



Test Report

Test Information

Test Time : 2022/09/15 11:52:00	Temperature:25.8C
Standard:TIA-568-C.2 Cat6A	Test Result:Pass
Cable Length:305m	Cable Type:UTP4 CAT6A 0.57CU
Tester:LI	Cable ID:

Test Result List

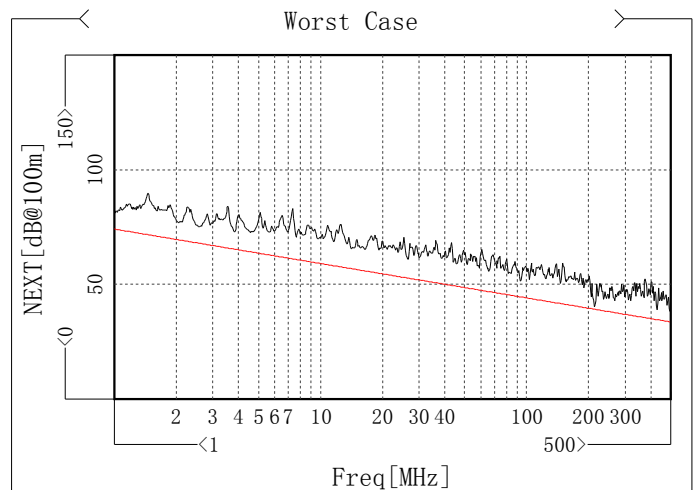
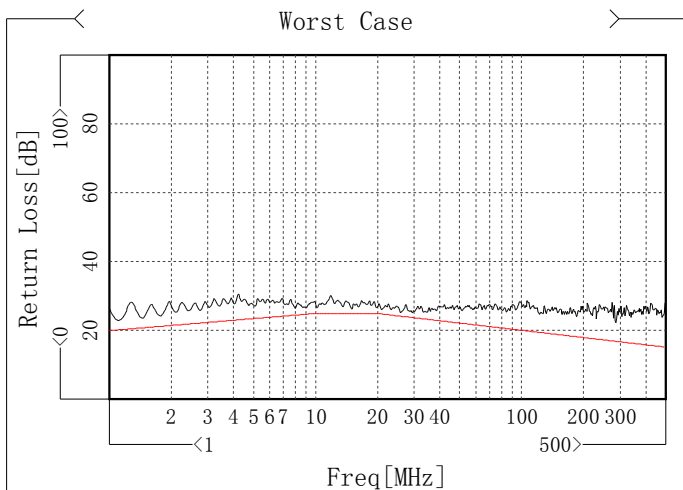
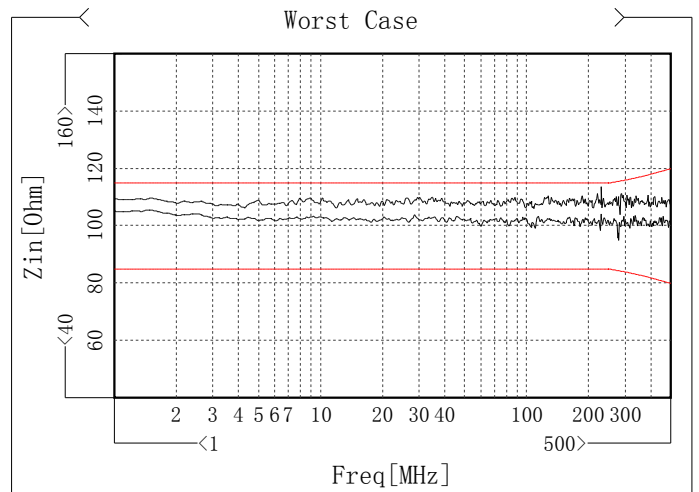
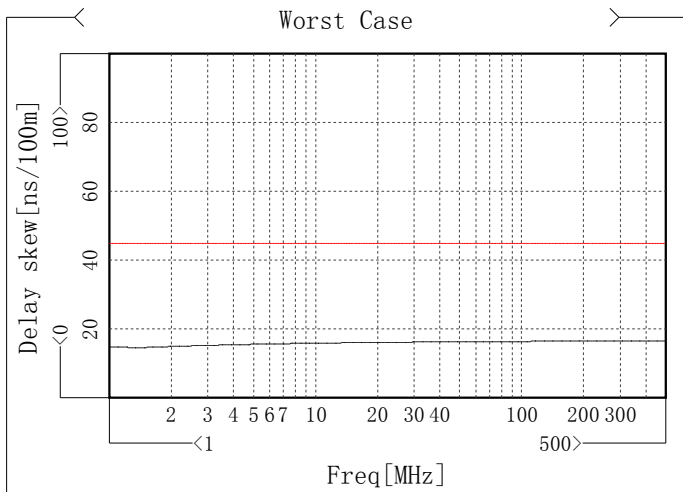
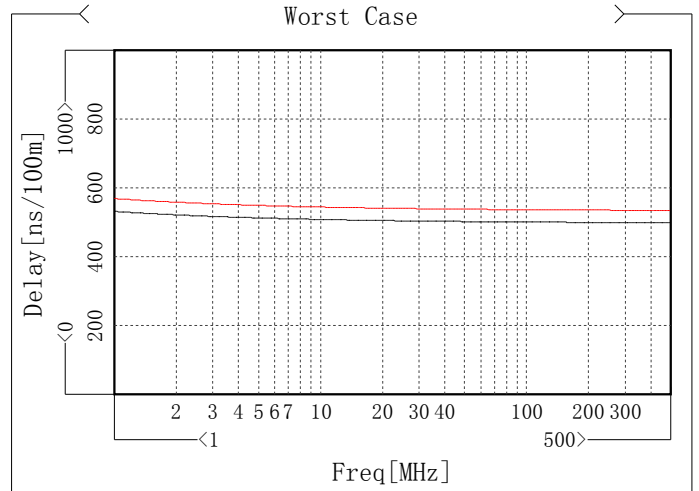
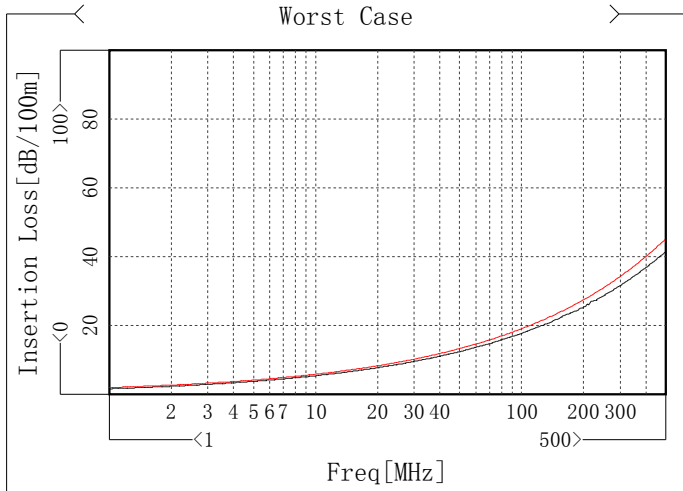
Test Item	Unit	Test Result
Insertion Loss	dB/100m	Pass
Delay	ns/100m	Pass
Delay skew	ns/100m	Pass
Zin	Ohm	Pass
Return Loss	dB	Pass
NEXT	dB@100m	Pass
PS NEXT	dB@100m	Pass
ACRF	dB@100m	Pass
PS ACRF	dB@100m	Pass
Insertion Loss(Reverse)	dB/100m	Pass
Delay(Reverse)	ns/100m	Pass
Delay skew(Reverse)	ns/100m	Pass
Zin(Reverse)	Ohm	Pass
Return Loss(Reverse)	dB	Pass
NEXT(Reverse)	dB@100m	Pass
PS NEXT(Reverse)	dB@100m	Pass
ACRF(Reverse)	dB@100m	Pass
PS ACRF(Reverse)	dB@100m	Pass

Inspector:
Date :

Assessor :
Date :

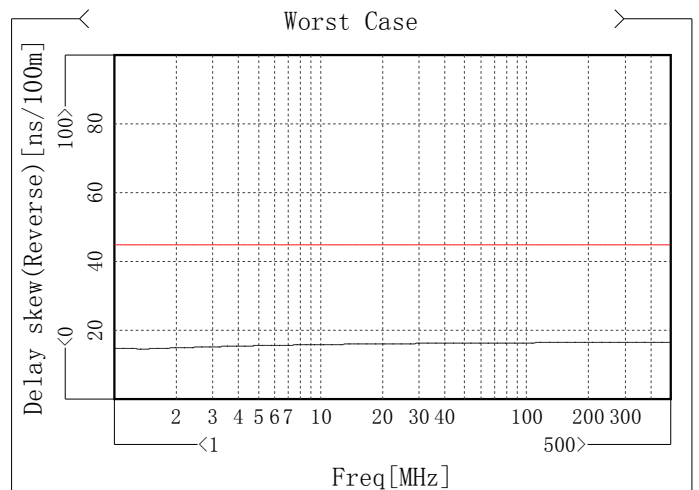
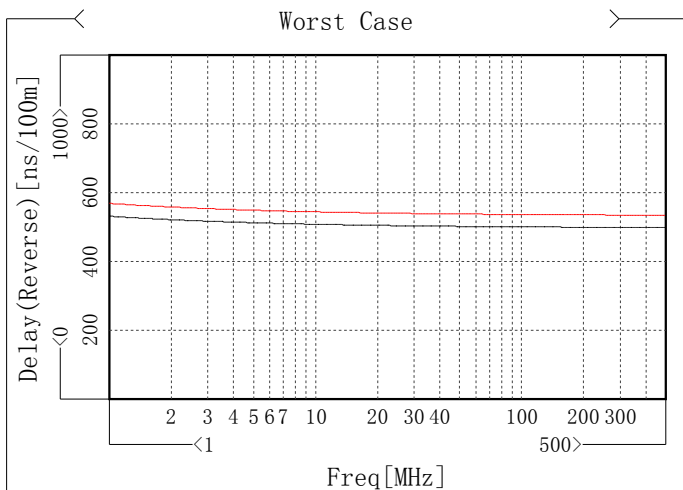
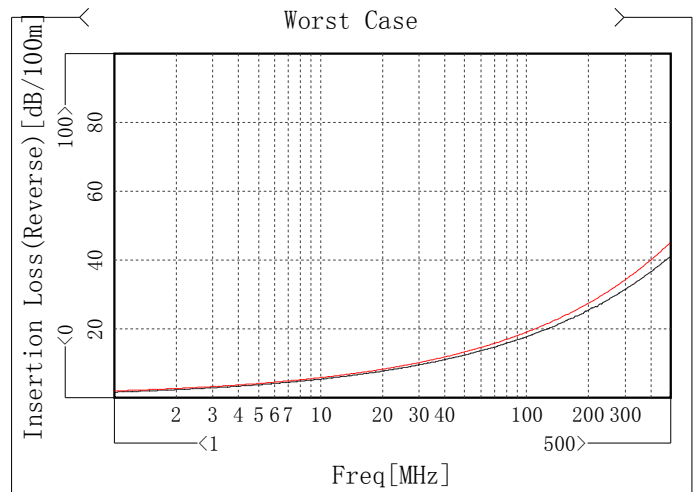
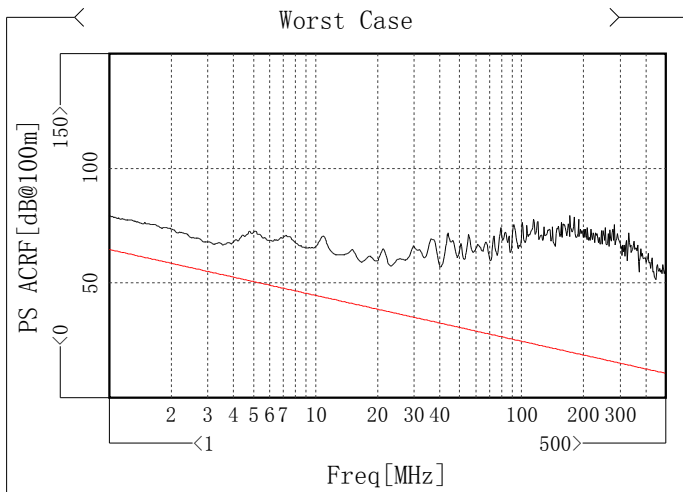
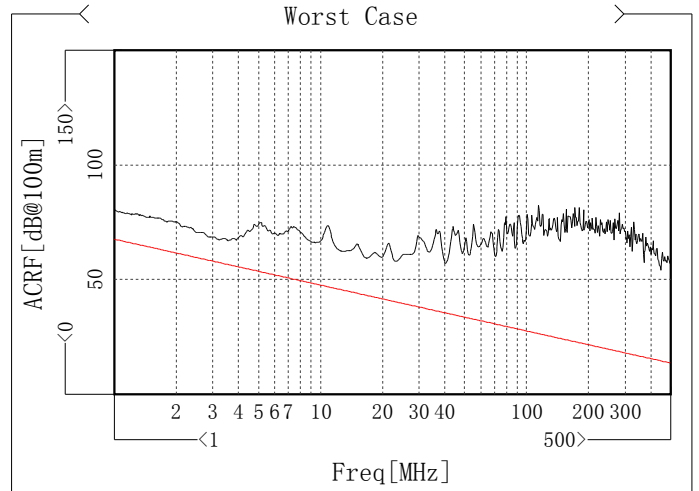
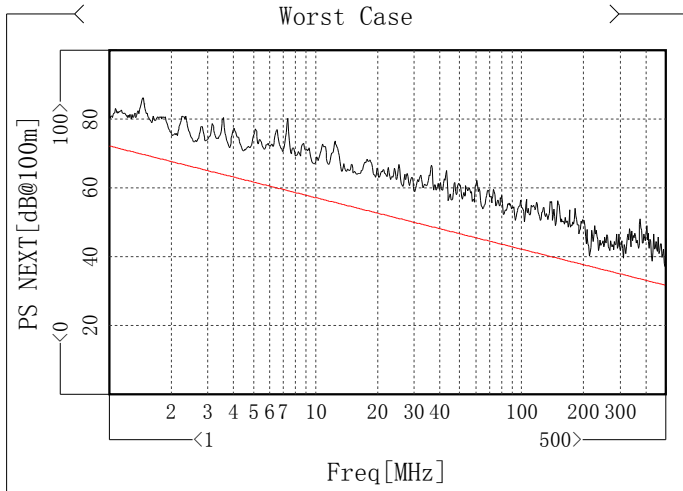
Worst Summary Of High Freq Parameter

Item	Max	Freq[MHz]	Spec	Margin	Min	Freq[MHz]	Spec	Margin
✓ Insertion Loss[dB/100m]	2.88[4]	2.808	3.22	0.34	/	/	/	/
✓ Delay[ns/100m]	499.97[4]	456.758	535.68	35.71	/	/	/	/
✓ Delay skew[ns/100m]	16.61[1-4]	500	45	28.39	/	/	/	/
✓ Zin[Ohm]	113.71[3]	234.381	115	1.29	94.92[2]	283.996	84.32	10.6
✓ Return Loss[dB]	/	/	/	/	25.26[1]	25.974	24.21	1.05
✓ NEXT[dB@100m]	/	/	/	/	40.51[1-2]	217.06	39.25	1.26



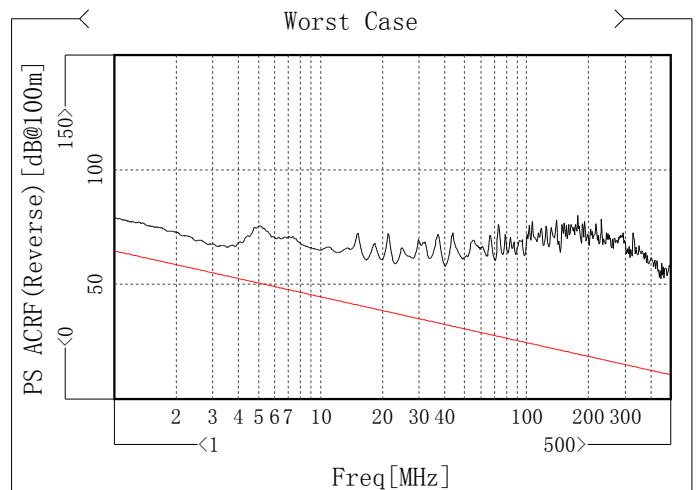
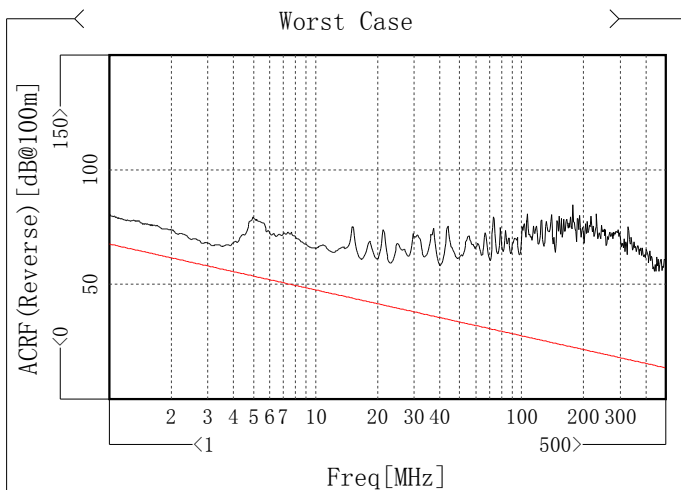
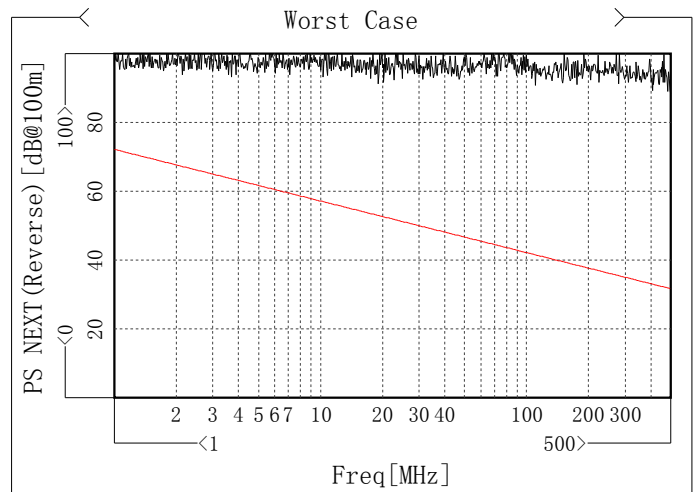
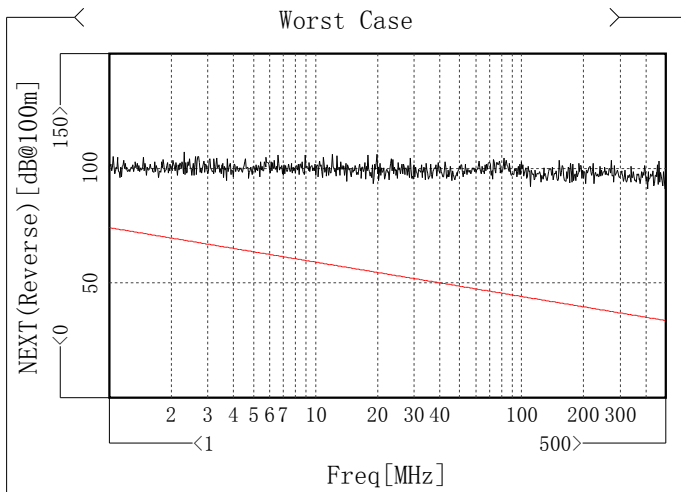
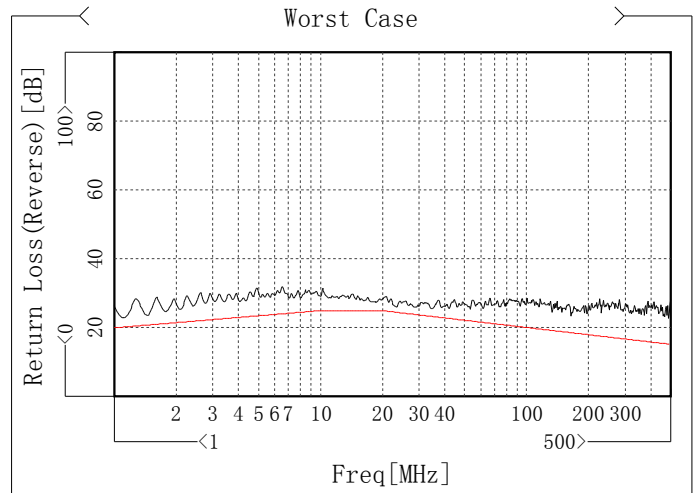
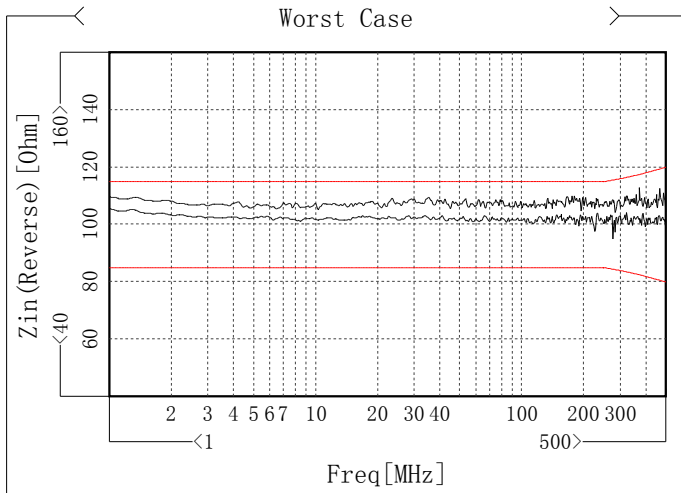
Worst Summary Of High Freq Parameter(2)

Item	Max	Freq[MHz]	Spec	Margin	Min	Freq[MHz]	Spec	Margin
✓ PS NEXT[dB@100m]	/	/	/	/	40.33[2]	217.06	37.25	3.08
✓ ACRF[dB@100m]	/	/	/	/	67.61[1-3]	3.223	57.63	9.98
✓ PS ACRF[dB@100m]	/	/	/	/	67.13[3]	3.223	54.63	12.5
✓ Insertion Loss(Reverse) [dB]	2.88[4]	2.808	3.22	0.34	/	/	/	/
✓ Delay(Reverse) [ns/100m]	499.88[4]	500	535.61	35.73	/	/	/	/
✓ Delay skew(Reverse) [ns/100m]	16.61[1-4]	500	45	28.39	/	/	/	/



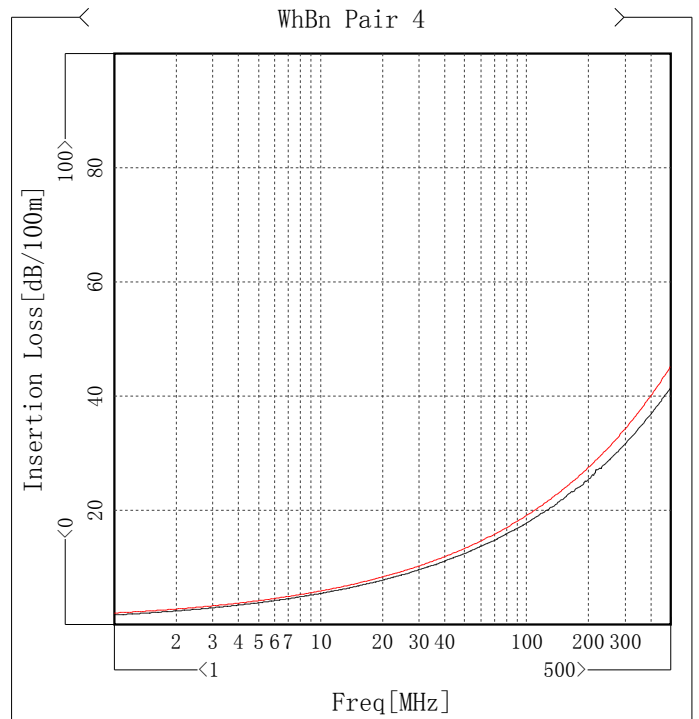
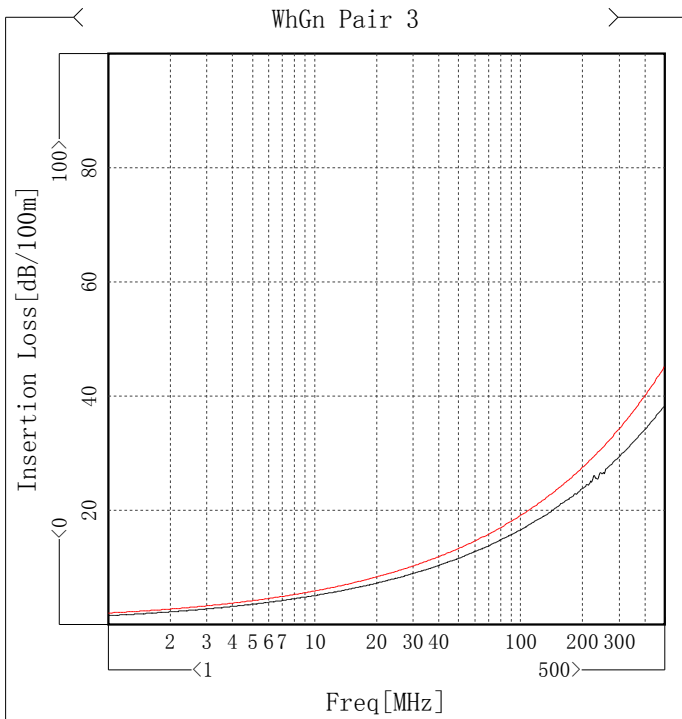
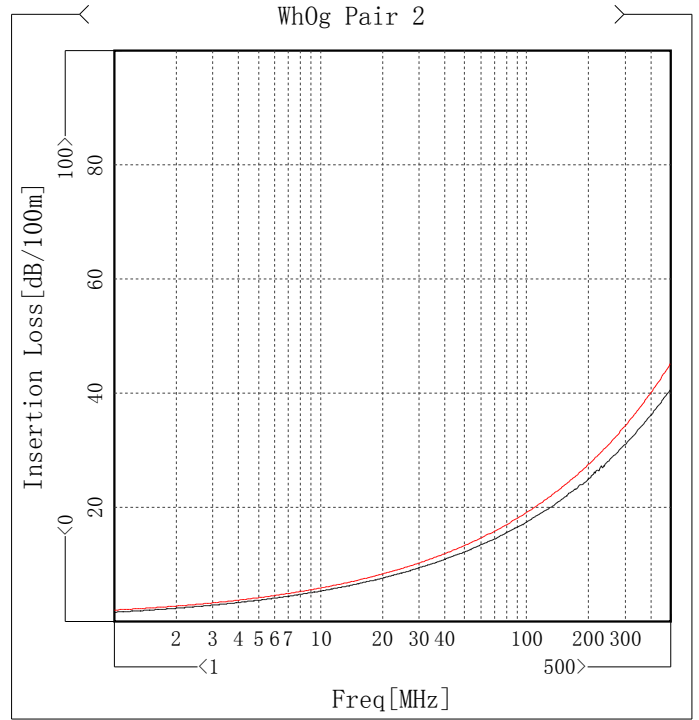
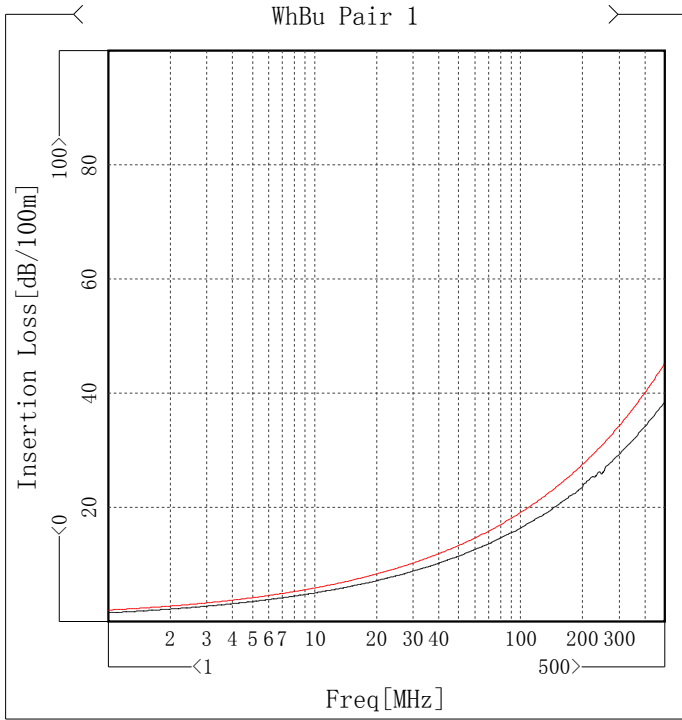
Worst Summary Of High Freq Parameter(3)

Item	Max	Freq[MHz]	Spec	Margin	Min	Freq[MHz]	Spec	Margin
✓ Zin(Reverse) [Ohm]	112.93[1]	376.925	117.54	4.61	94.93[4]	279.195	84.42	10.51
✓ Return Loss(Reverse) [dB]	/	/	/	/	26.01[3]	23.706	24.48	1.53
✓ NEXT(Reverse) [dB@100m]	/	/	/	/	96.23[2-4]	1.146	73.41	22.82
✓ PS NEXT(Reverse) [dB@100m]	/	/	/	/	95.5[3]	1.073	71.84	23.66
✓ ACRF(Reverse) [dB@100m]	/	/	/	/	66.98[1-3]	3.199	57.7	9.28
✓ PS ACRF(Reverse) [dB@100m]	/	/	/	/	66.7[3]	3.175	54.77	11.93



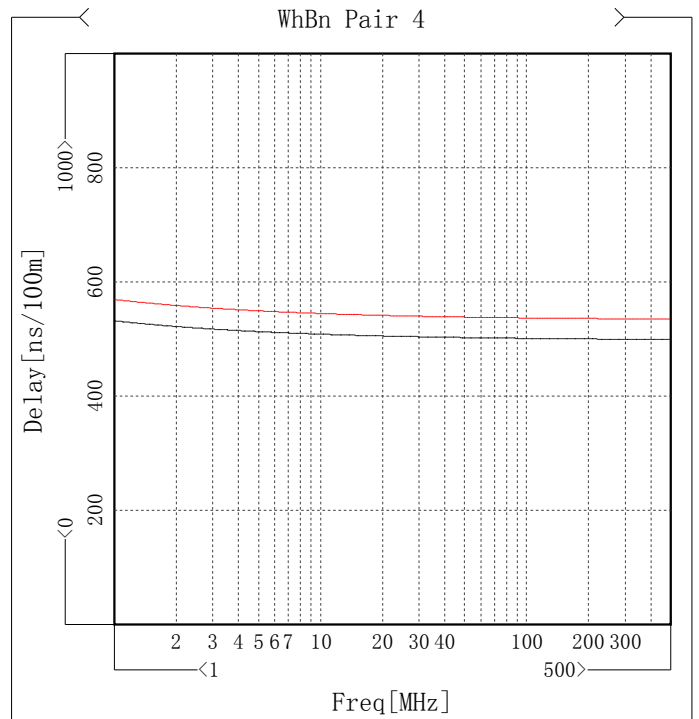
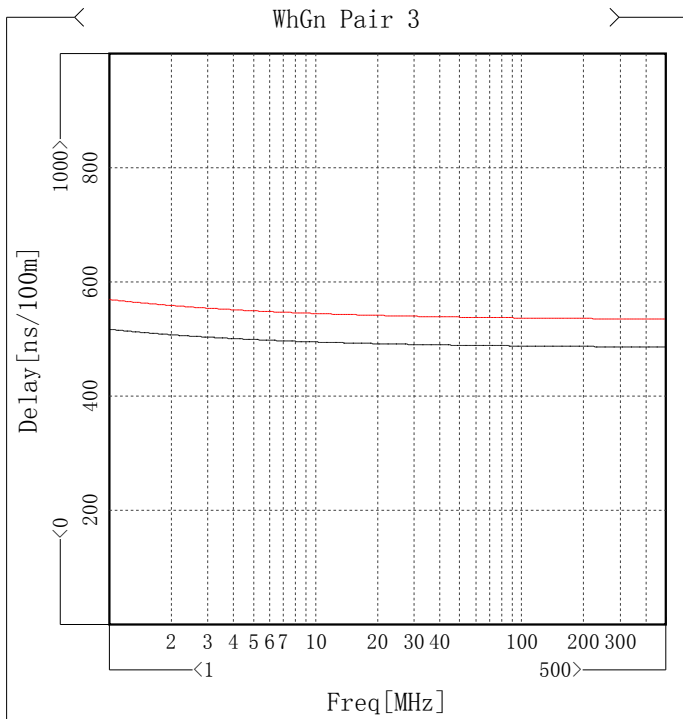
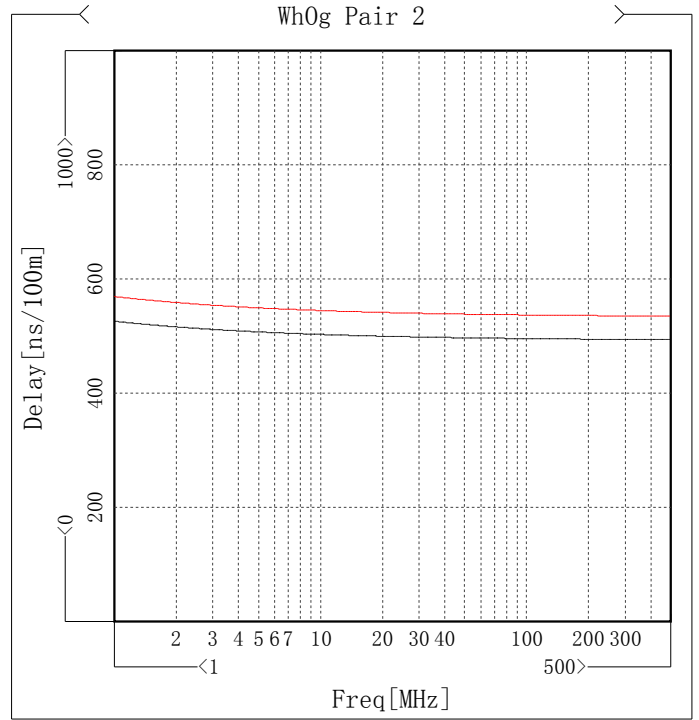
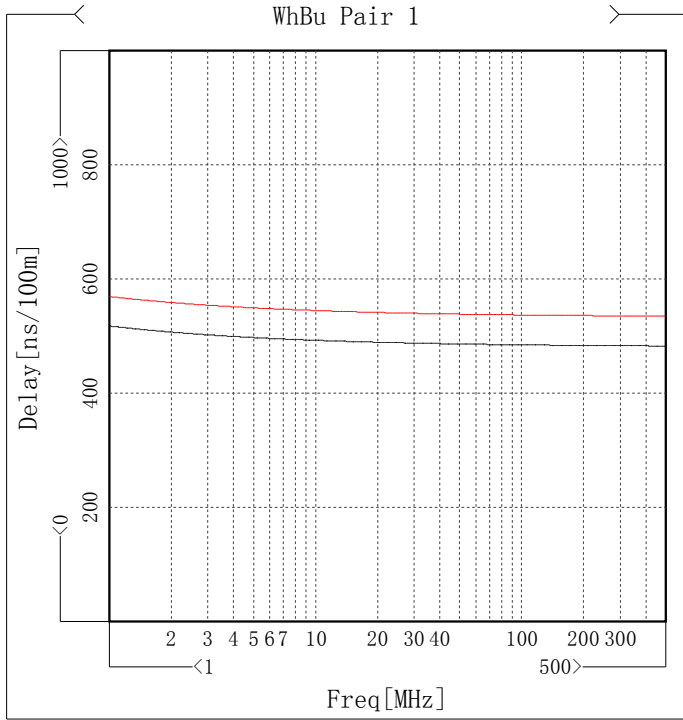
Insertion Loss

Item	Max [dB/100m]	Freq[MHz]	Spec [dB/100m]	Margin [dB/100m]
WhBu Pair 1	1.7	1.146	2.19	0.49
WhOg Pair 2	2.27	1.817	2.65	0.38
WhGn Pair 3	1.74	1.174	2.21	0.47
WhBn Pair 4	2.88	2.808	3.22	0.34



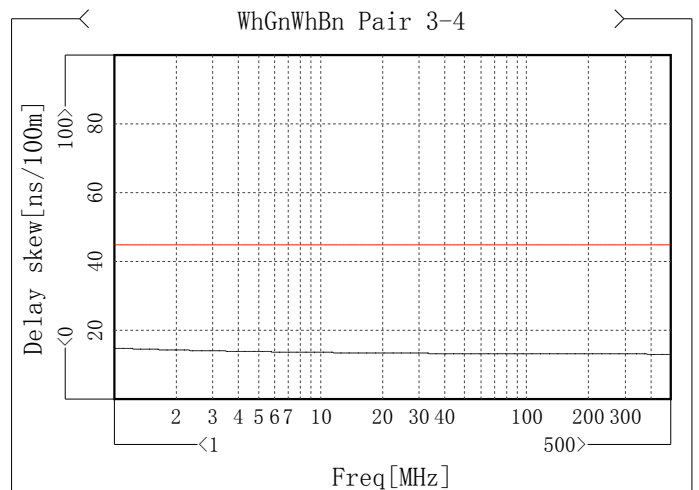
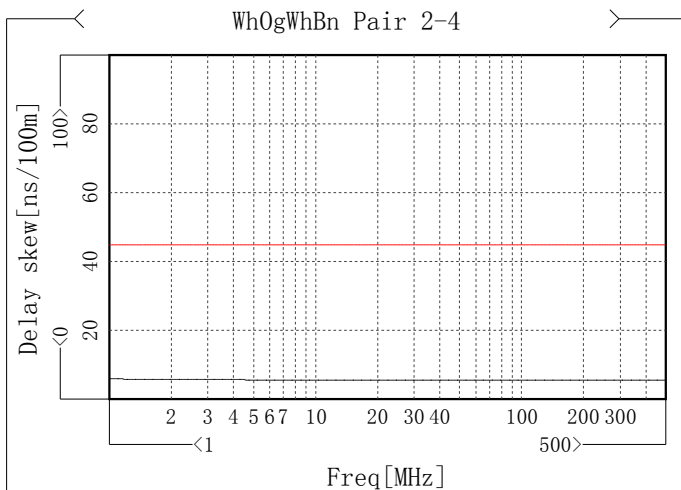
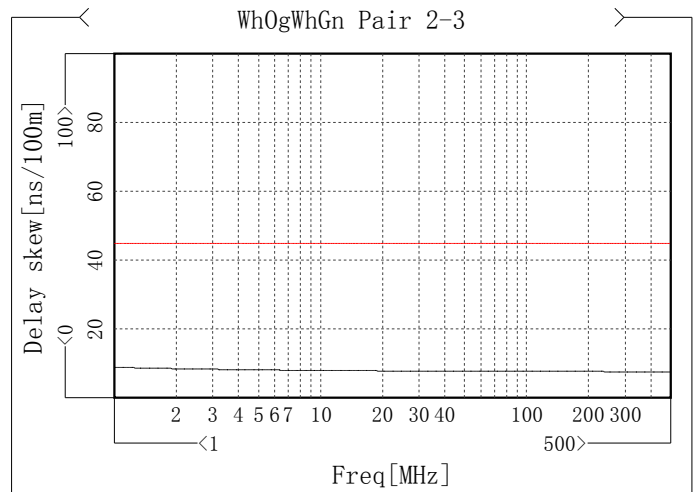
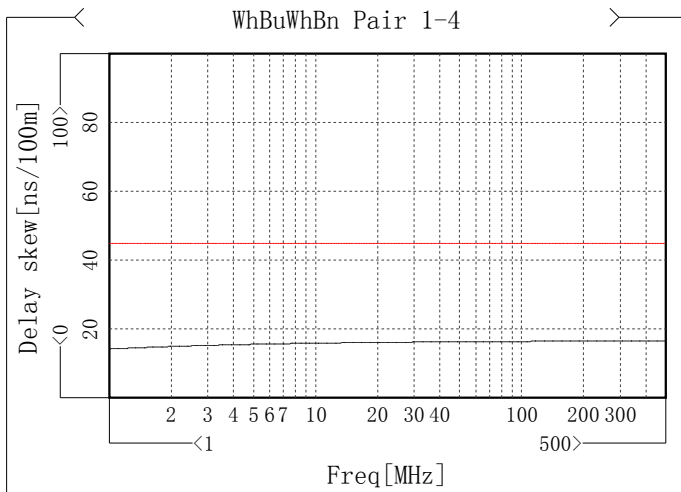
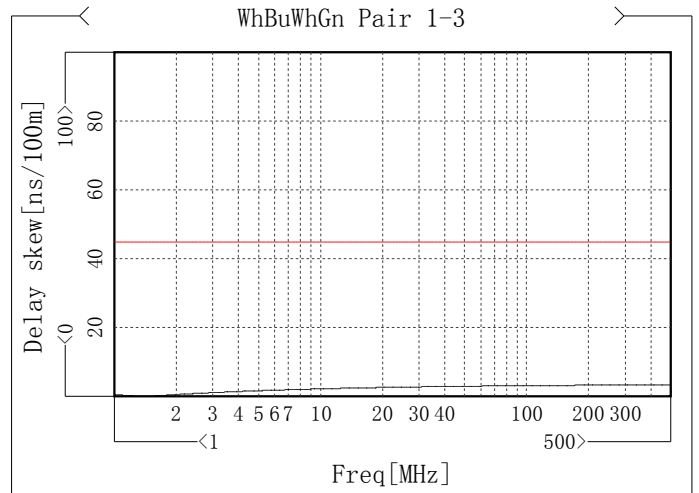
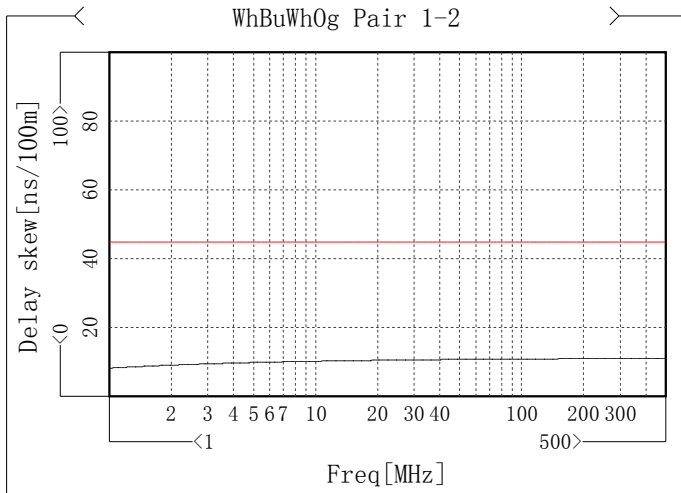
Delay

Item	Max [ns/100m]	Freq[MHz]	Spec [ns/100m]	Margin [ns/100m]
WhBu Pair 1	516.17	1.146	567.62	51.45
WhOg Pair 2	494.46	456.758	535.68	41.22
WhGn Pair 3	486.75	480.042	535.64	48.89
WhBn Pair 4	499.97	456.758	535.68	35.71



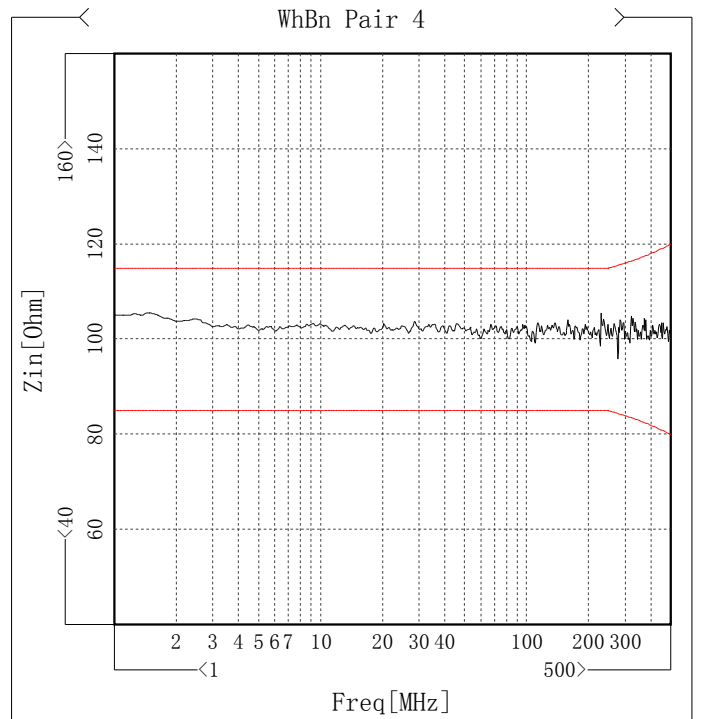
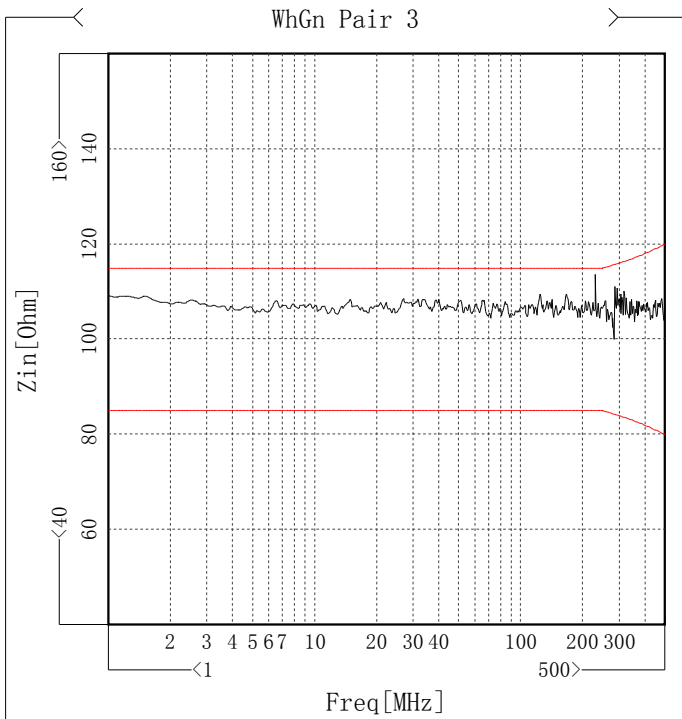
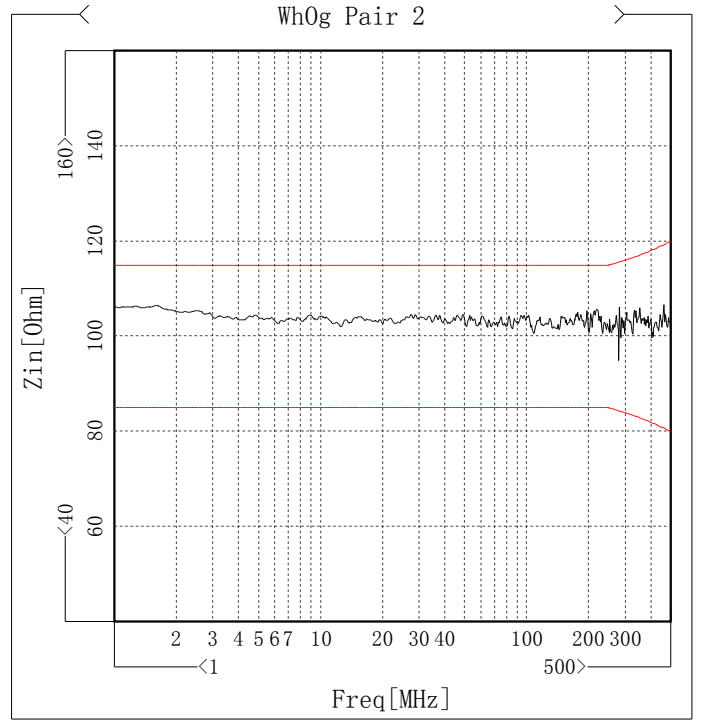
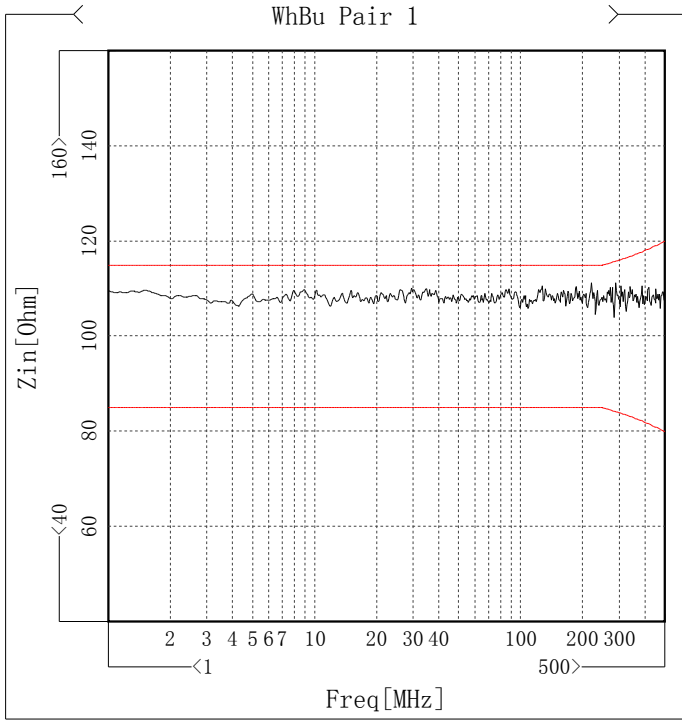
Delay skew

Item	Max [ns/100m]	Freq[MHz]	Spec [ns/100m]	Margin [ns/100m]
WhBuWhOg Pair 1-2	11.1	500	45	33.9
WhBuWhGn Pair 1-3	3.43	500	45	41.57
WhBuWhBn Pair 1-4	16.61	500	45	28.39
WhOgWhGn Pair 2-3	8.94	1	45	36.06
WhOgWhBn Pair 2-4	5.97	1.027	45	39.03
WhGnWhBn Pair 3-4	14.91	1	45	30.09



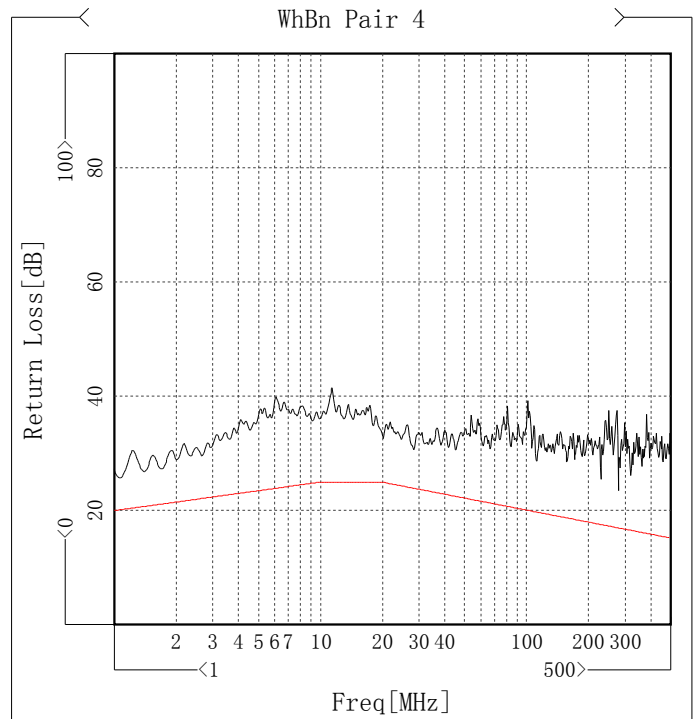
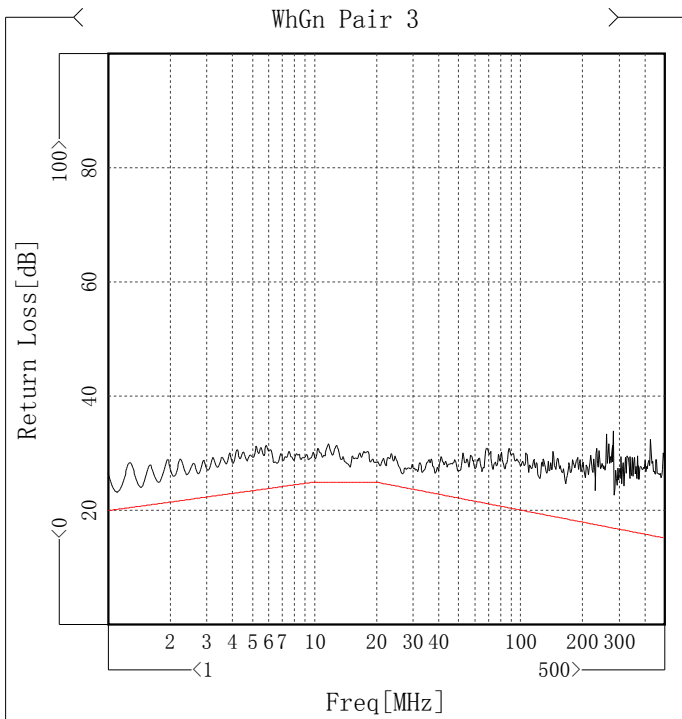
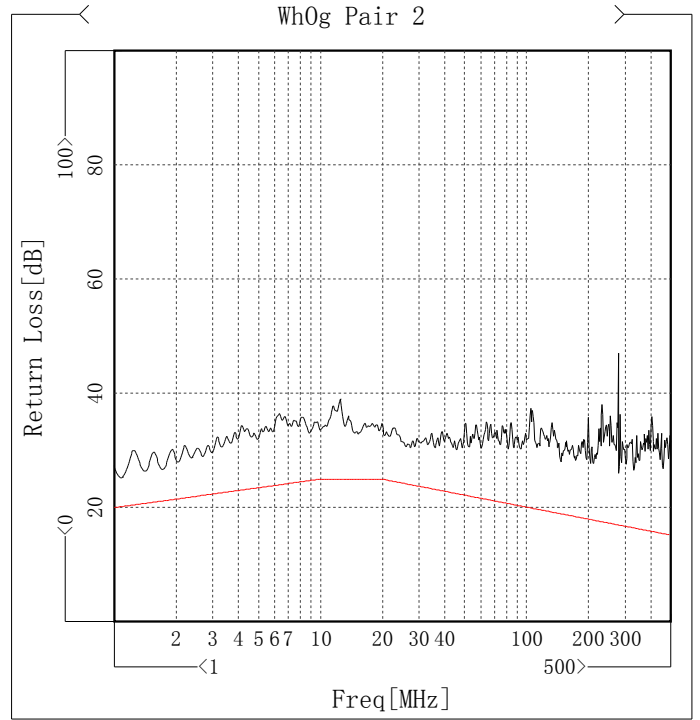
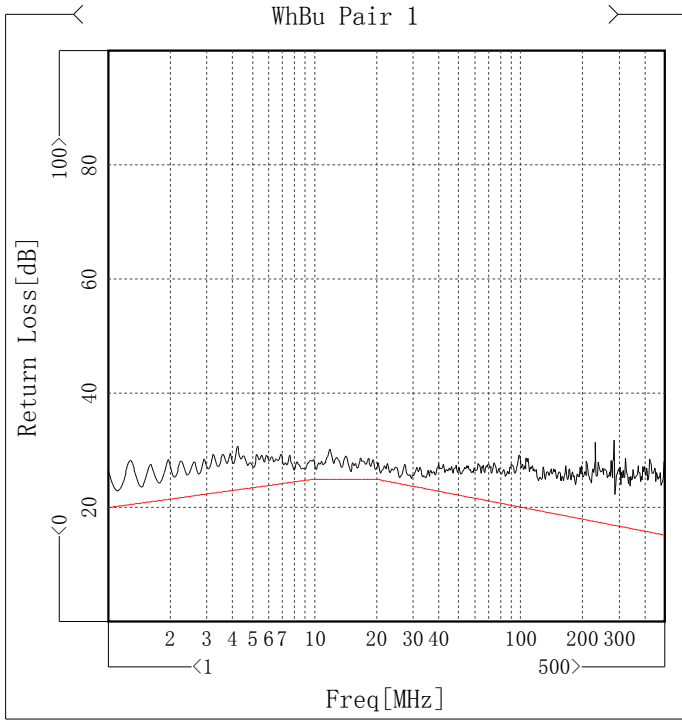
Zin

Item	Max [Ohm]	Freq[MHz]	Spec [Ohm]	Margin [Ohm]	Min [Ohm]	Freq[MHz]	Spec [Ohm]	Margin [Ohm]
✓ WhBu Pair 1	111.3	223.988	115	3.7	104.63	234.381	85	19.63
✓ WhOg Pair 2	106.48	1.614	115	8.52	94.92	283.996	84.32	10.6
✓ WhGn Pair 3	113.71	234.381	115	1.29	100.07	288.796	84.22	15.85
✓ WhBn Pair 4	105.58	1.475	115	9.42	95.91	279.195	84.42	11.49



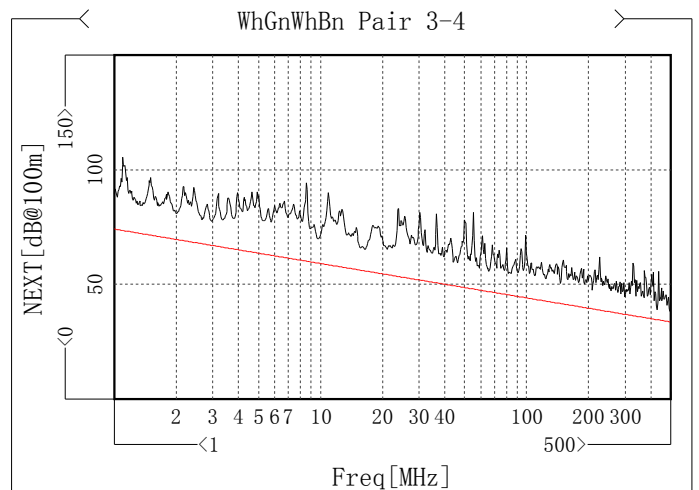
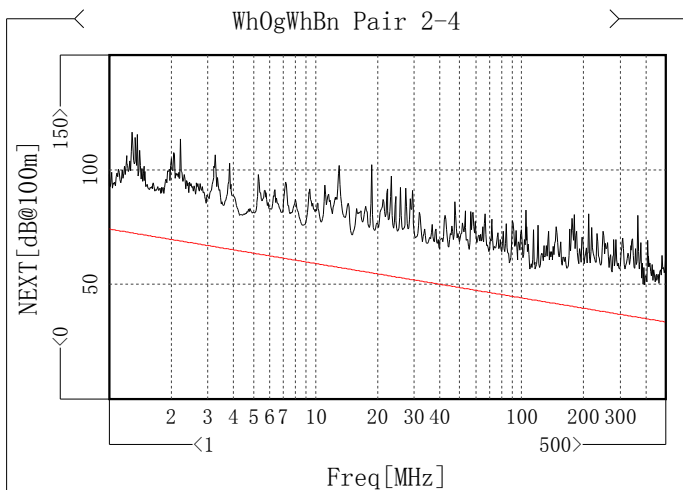
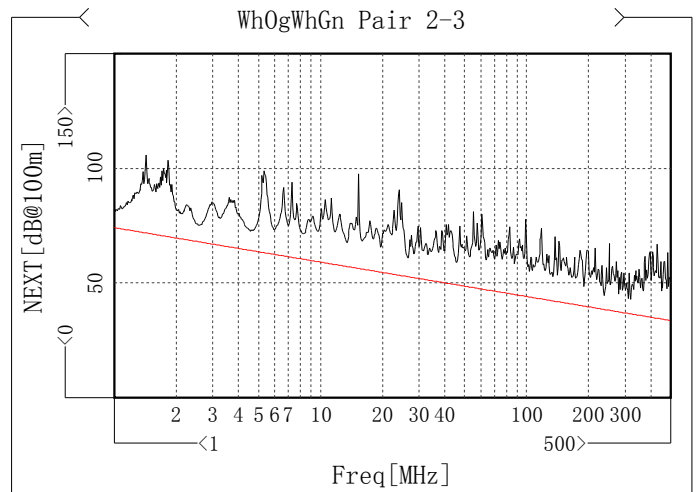
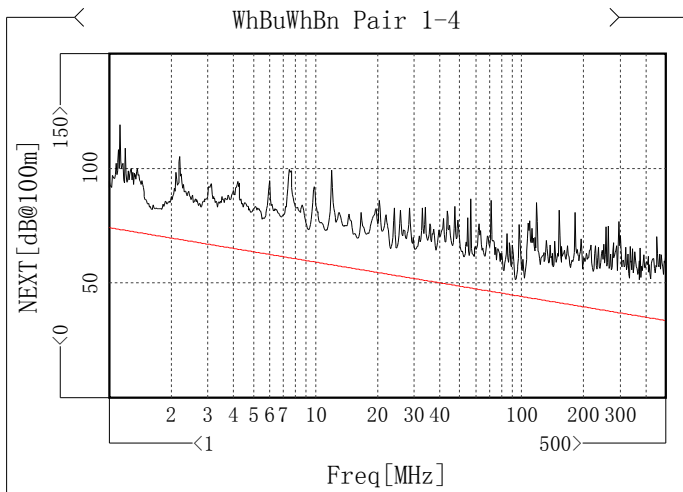
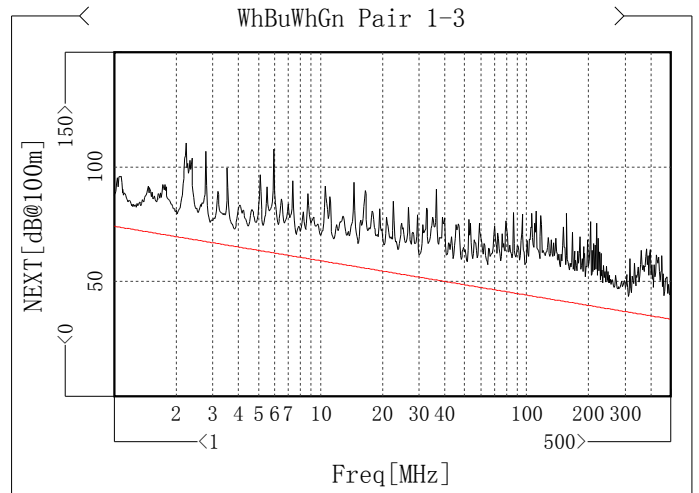
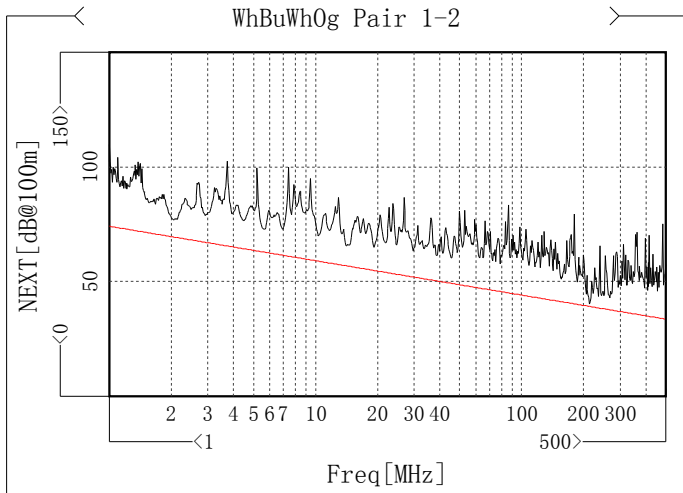
Return Loss

Item	Min [dB]	Freq[MHz]	Spec [dB]	Margin [dB]
WhBu Pair 1	25.26	25.974	24.21	1.05
WhOg Pair 2	25.25	1.101	20.21	5.04
WhGn Pair 3	26.49	26.771	24.11	2.38
WhBn Pair 4	25.73	1.082	20.17	5.56



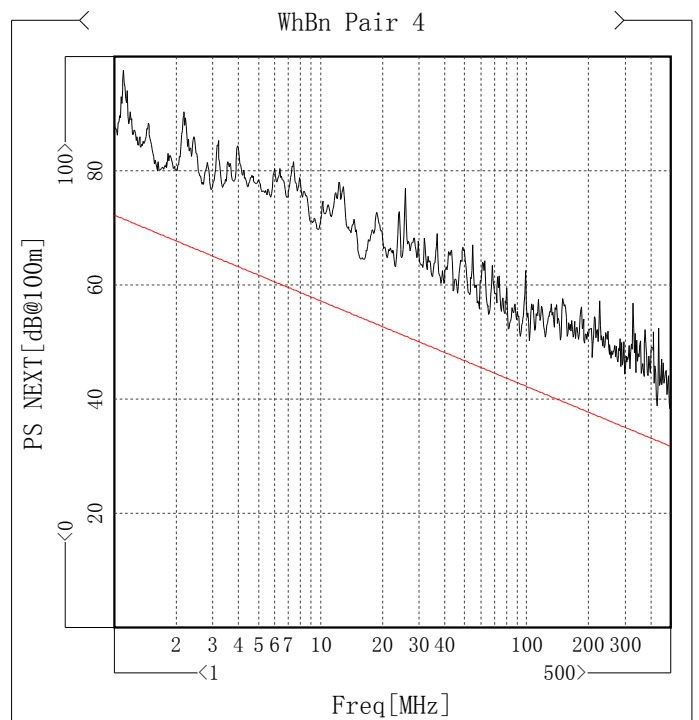
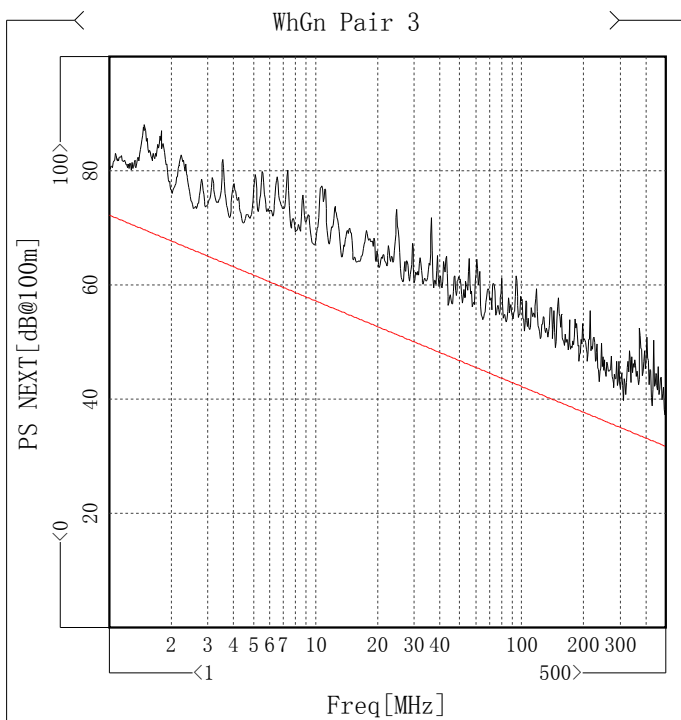
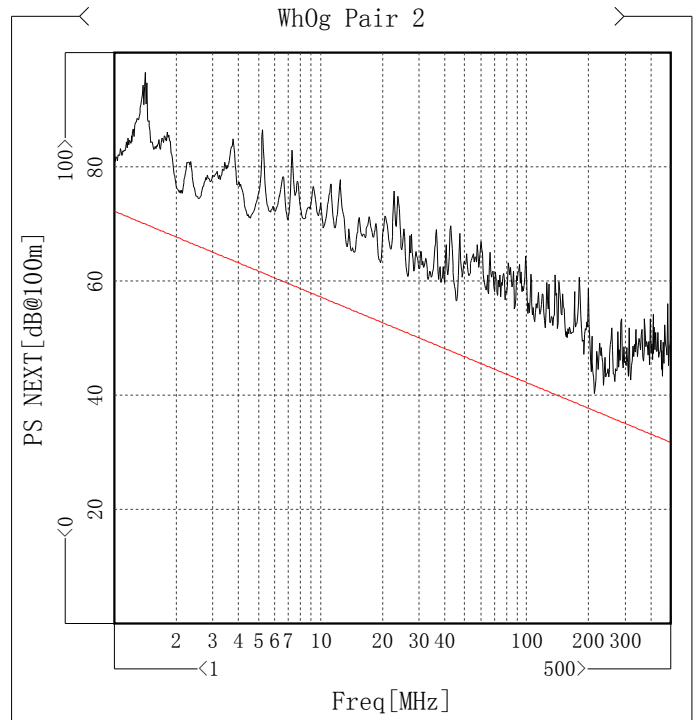
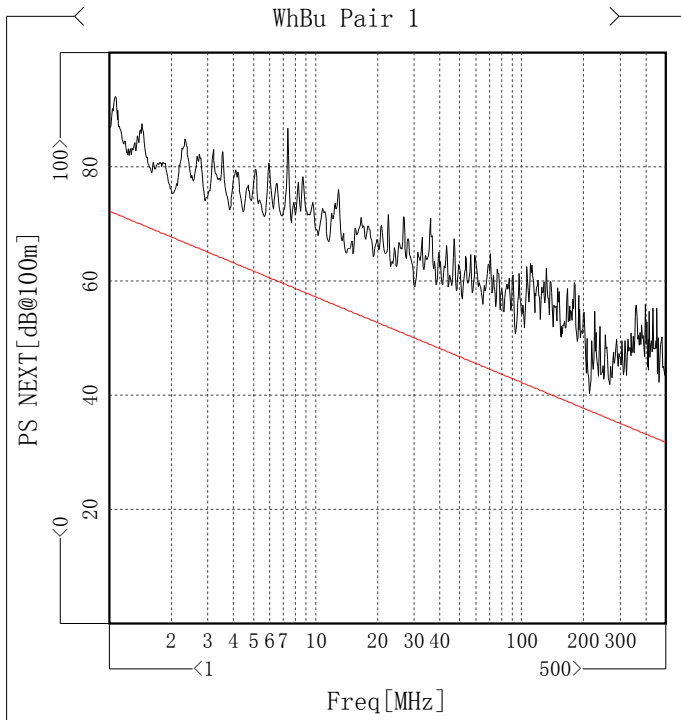
NEXT

Item	Min [dB@100m]	Freq [MHz]	Spec [dB@100m]	Margin [dB@100m]
WhBuWhOg Pair 1-2	40.51	217.06	39.25	1.26
WhBuWhGn Pair 1-3	43.7	317.6	36.77	6.93
WhBuWhBn Pair 1-4	51.49	93.848	44.71	6.78
WhOgWhGn Pair 2-3	44.8	241.309	38.56	6.24
WhOgWhBn Pair 2-4	57.02	111.259	43.6	13.42
WhGnWhBn Pair 3-4	38.95	436.8	34.7	4.25



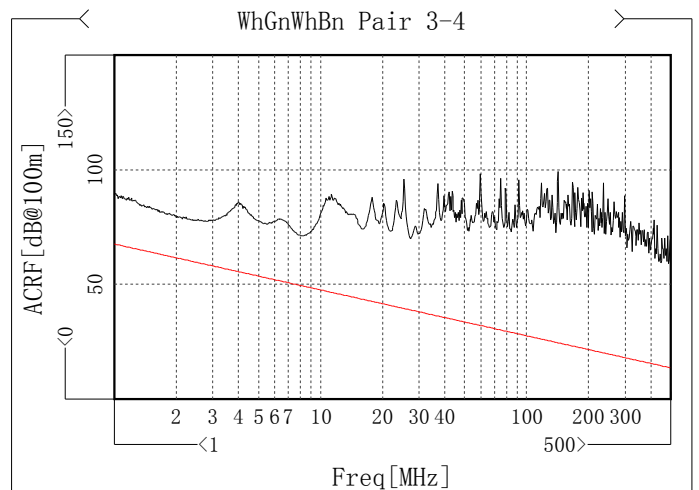
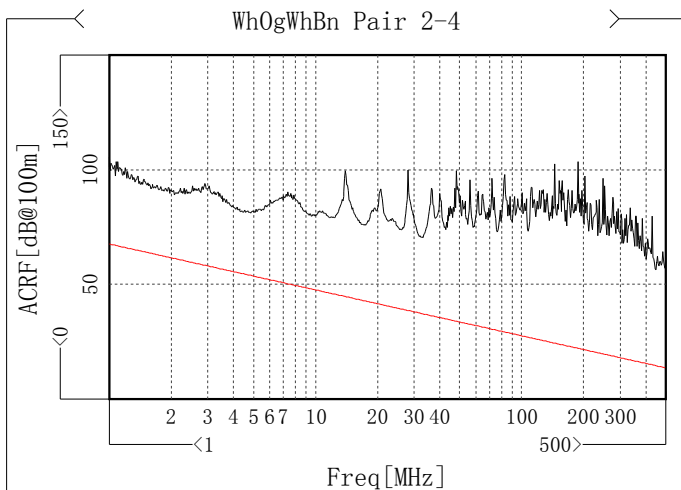
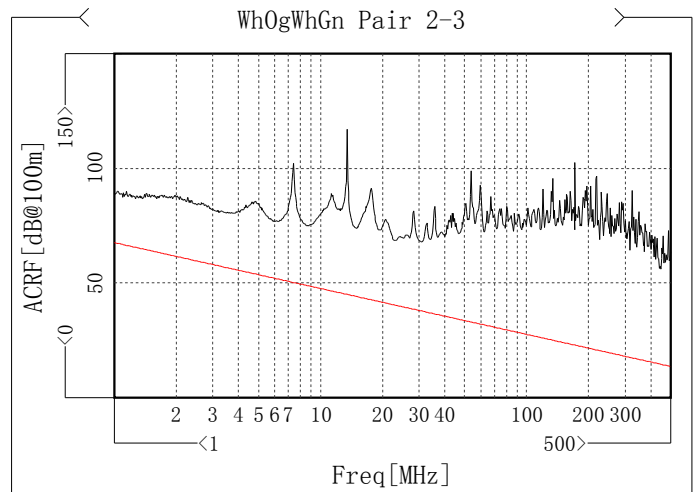
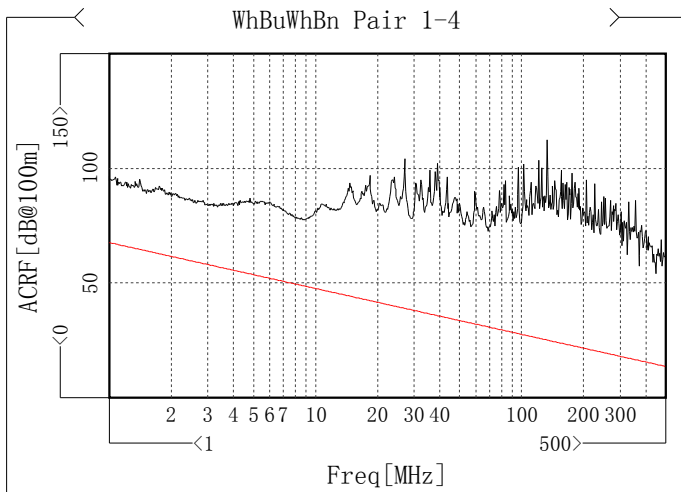
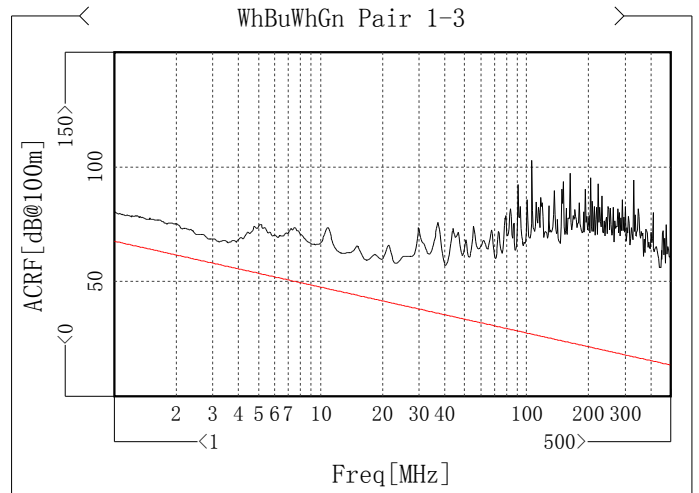
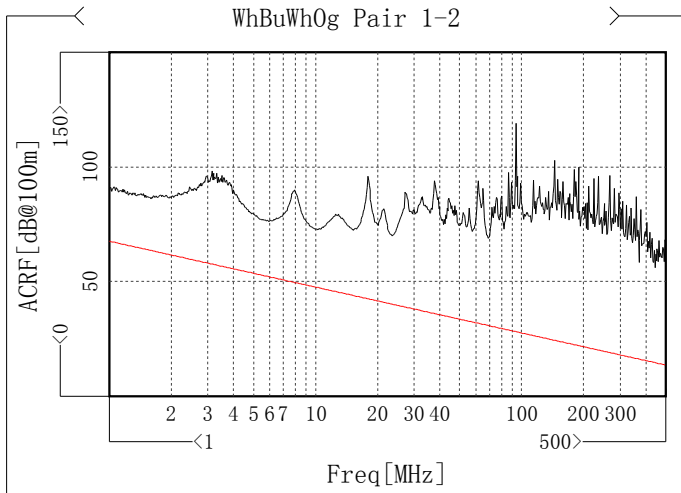
PS NEXT

Item	Min [dB@100m]	Freq [MHz]	Spec [dB@100m]	Margin [dB@100m]
WhBu Pair 1	40.35	217.06	37.25	3.1
WhOg Pair 2	40.33	217.06	37.25	3.08
WhGn Pair 3	39.78	317.6	34.77	5.01
WhBn Pair 4	38.88	436.8	32.7	6.18



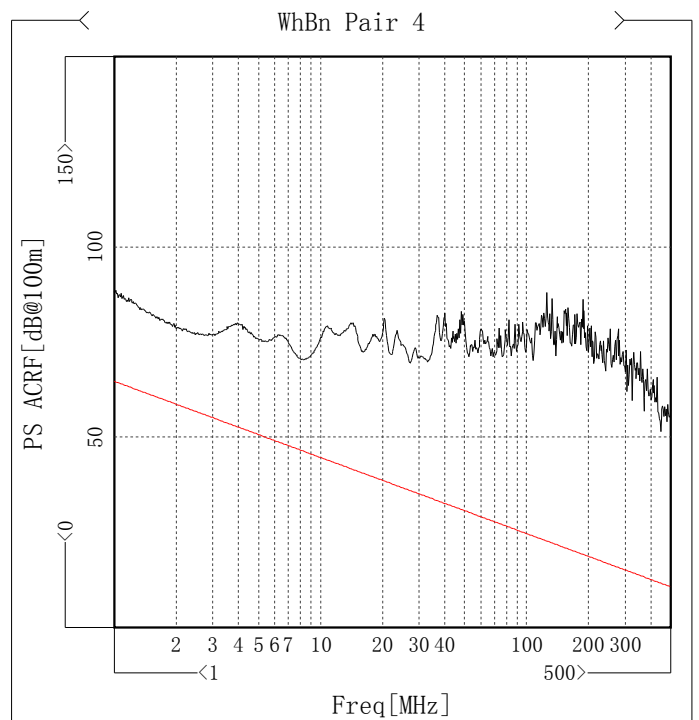
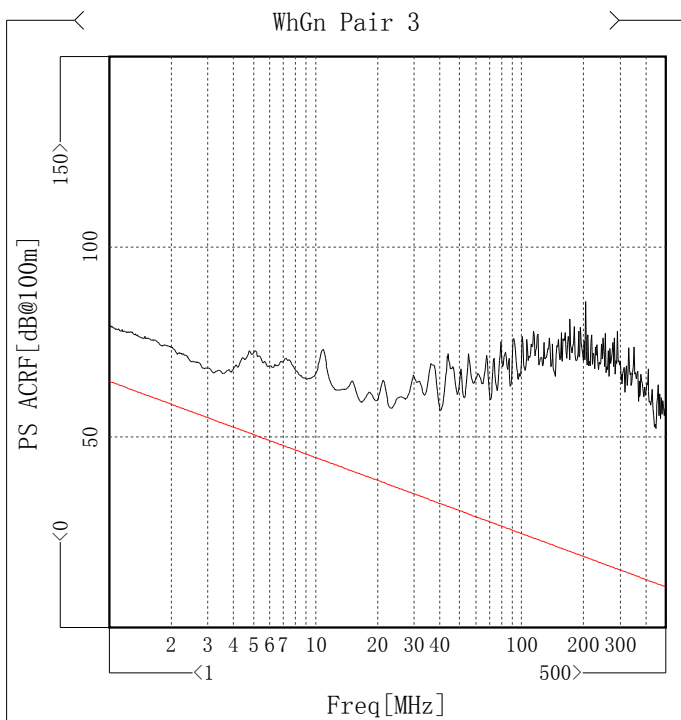
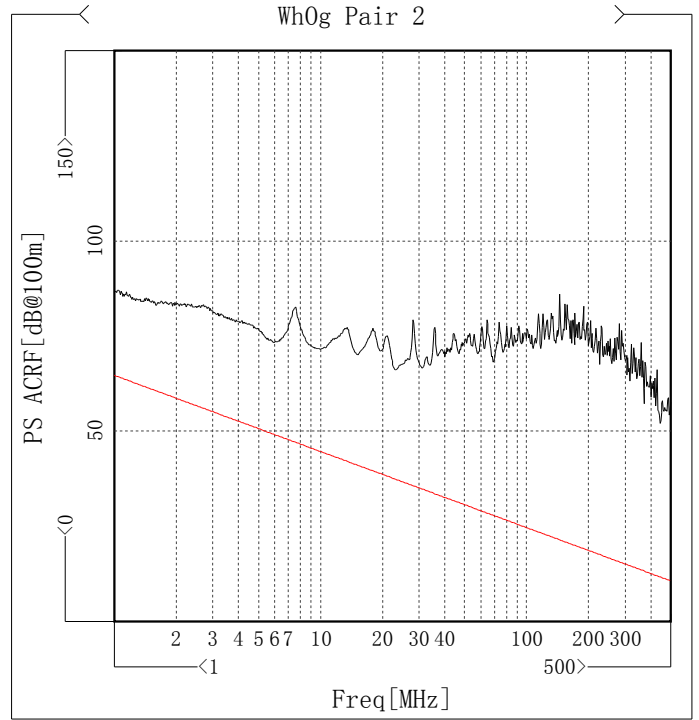
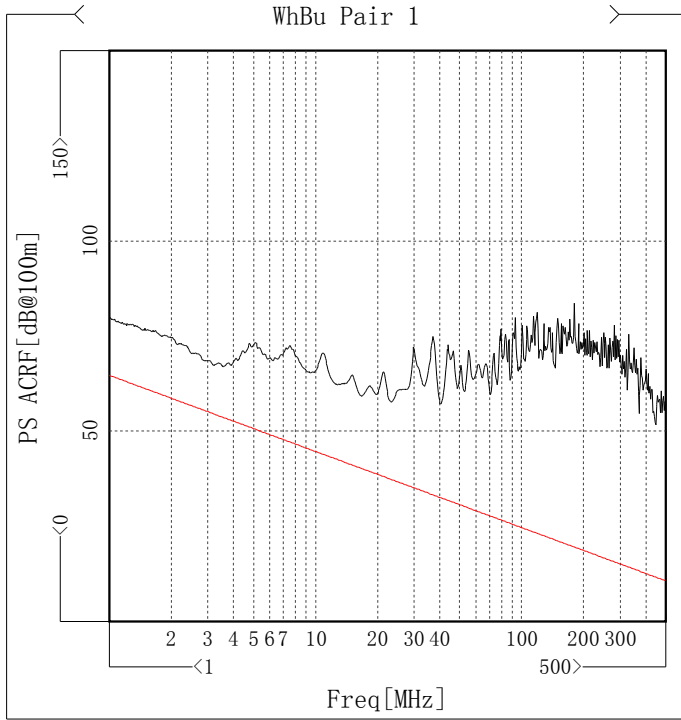
ACRF

Item	Min [dB@100m]	Freq [MHz]	Spec [dB@100m]	Margin [dB@100m]
WhBuWhOg Pair 1-2	87.99	1.256	65.82	22.17
WhBuWhGn Pair 1-3	67.61	3.223	57.63	9.98
WhBuWhBn Pair 1-4	89.33	1.538	64.06	25.27
WhOgWhGn Pair 2-3	87.56	1.119	66.82	20.74
WhOgWhBn Pair 2-4	81.46	4.533	54.67	26.79
WhGnWhBn Pair 3-4	78.66	2.166	61.09	17.57



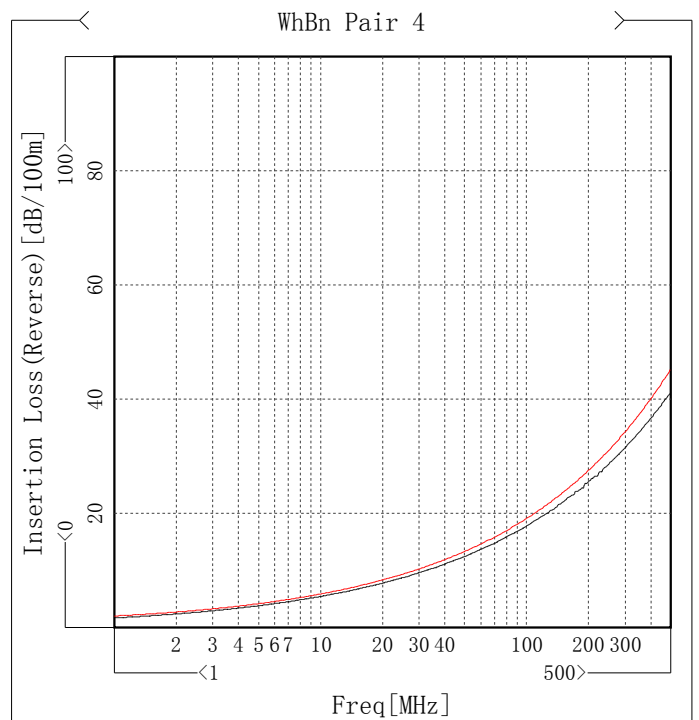
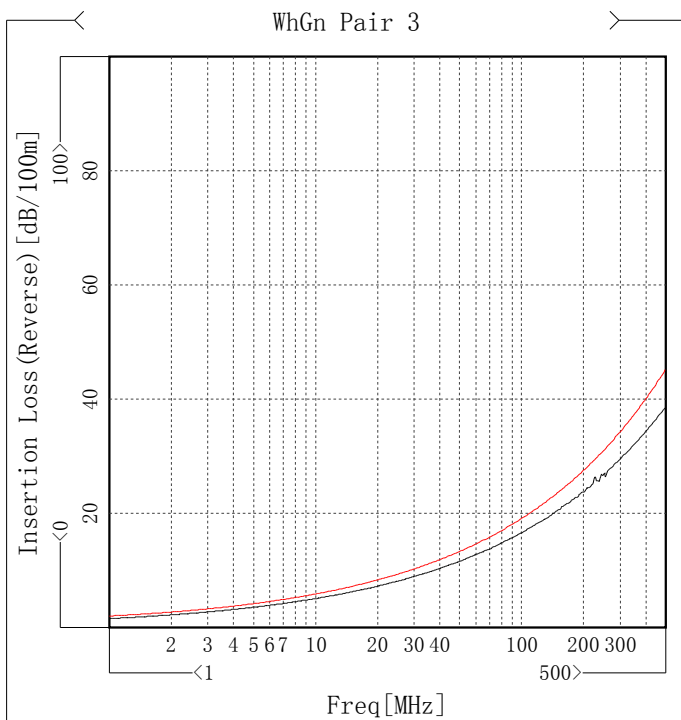
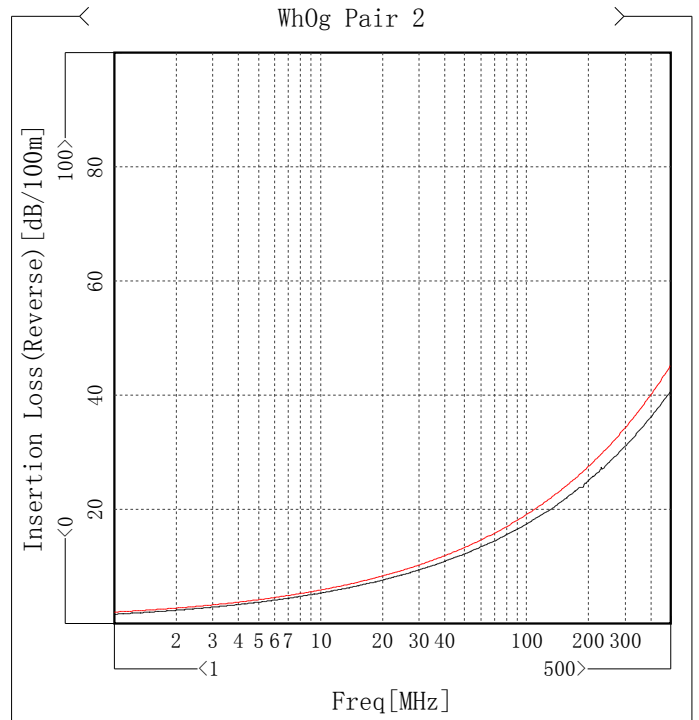
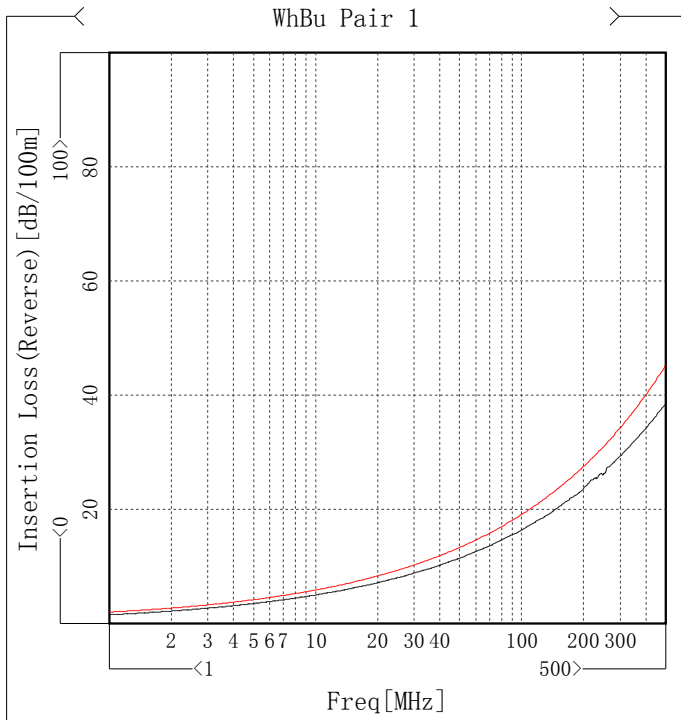
PS ACRF

Item	Min [dB@100m]	Freq [MHz]	Spec [dB@100m]	Margin [dB@100m]
WhBu Pair 1	67.51	3.223	54.63	12.88
WhOg Pair 2	84.25	1.284	62.63	21.62
WhGn Pair 3	67.13	3.223	54.63	12.5
WhBn Pair 4	78	2.166	58.09	19.91



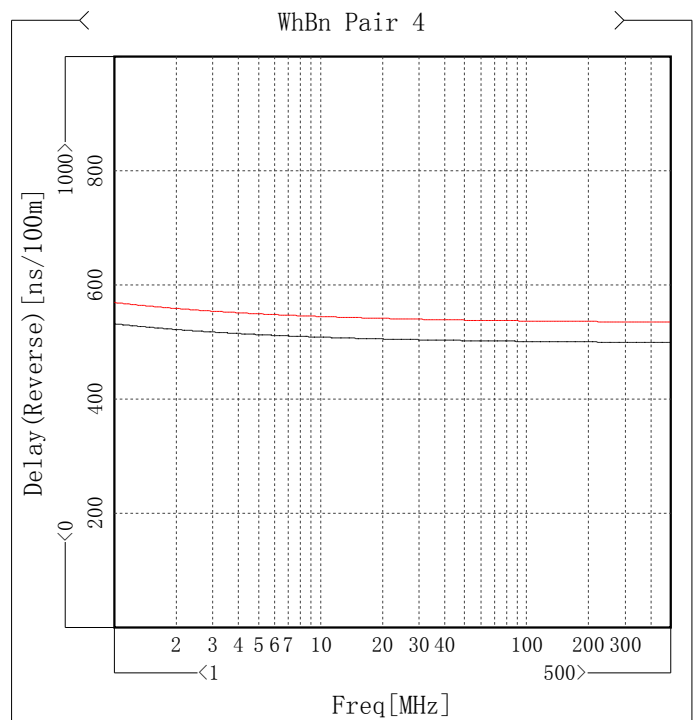
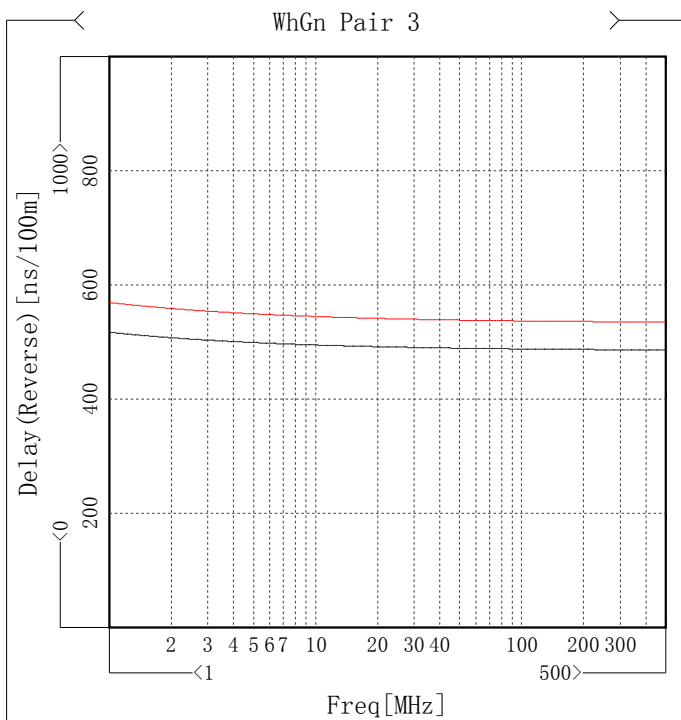
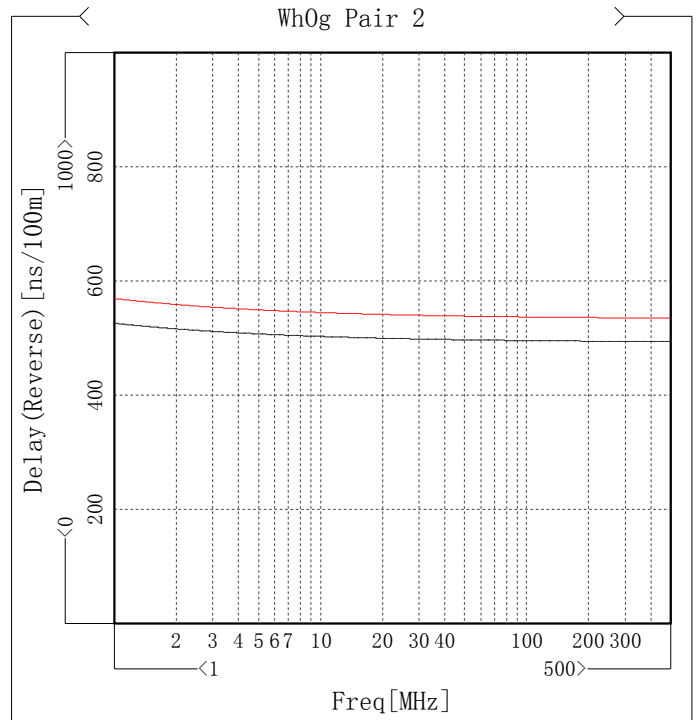
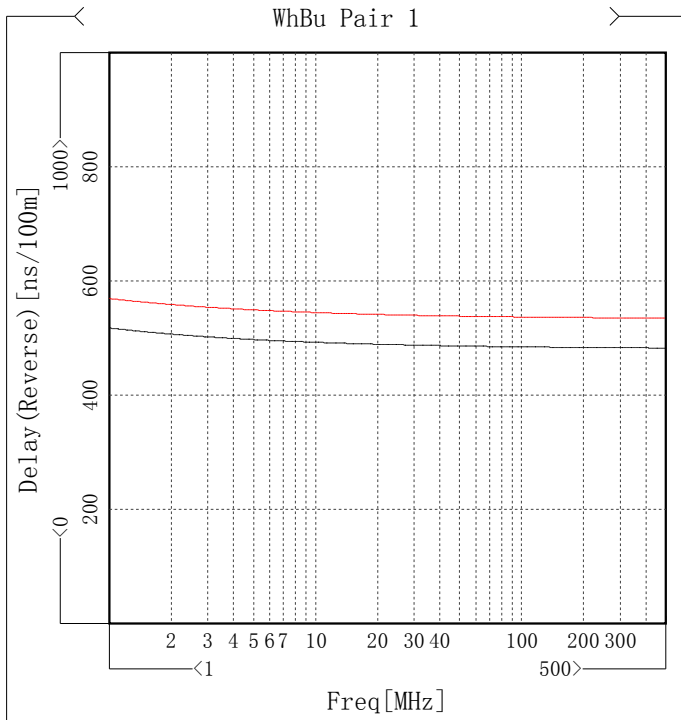
Insertion Loss (Reverse)

Item	Max [dB/100m]	Freq [MHz]	Spec [dB/100m]	Margin [dB/100m]
WhBu Pair 1	1.68	1.119	2.17	0.49
WhOg Pair 2	2.27	1.817	2.65	0.38
WhGn Pair 3	1.72	1.146	2.19	0.47
WhBn Pair 4	2.88	2.808	3.22	0.34



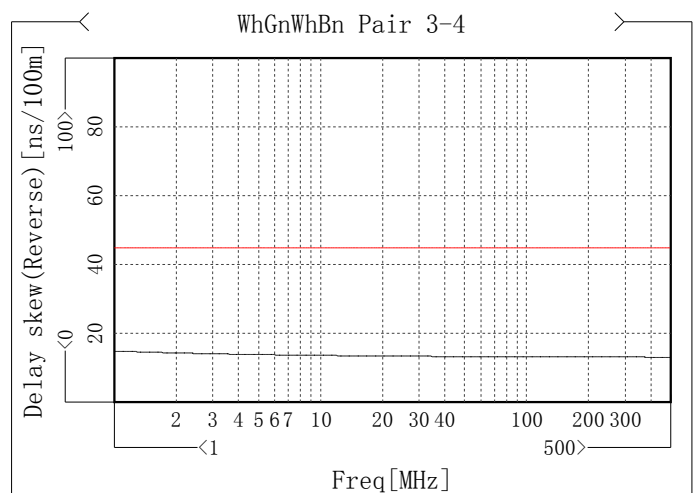
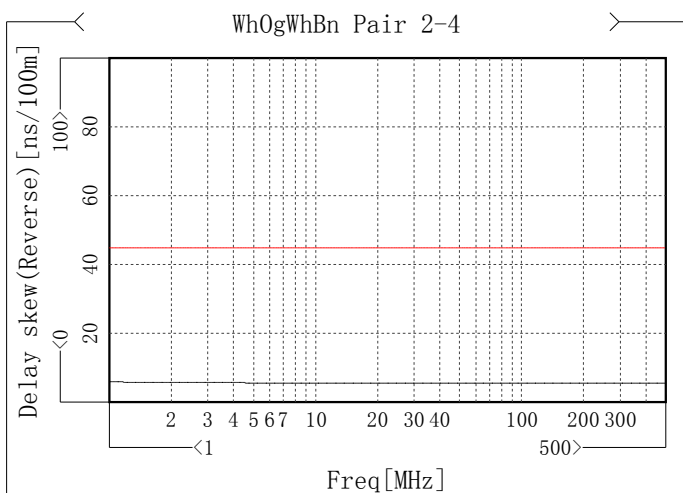
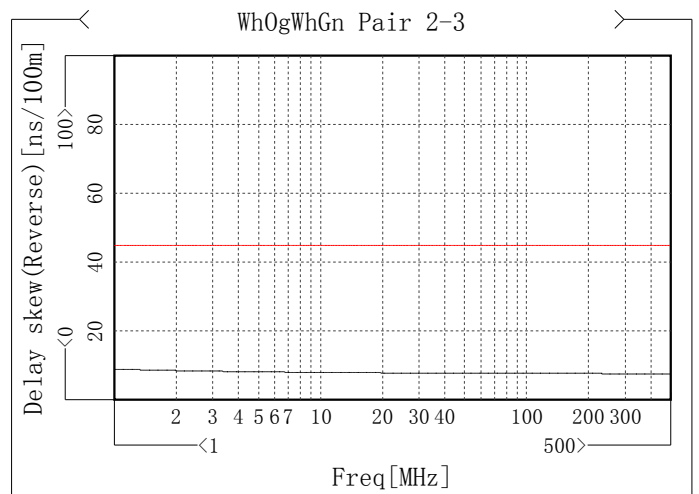
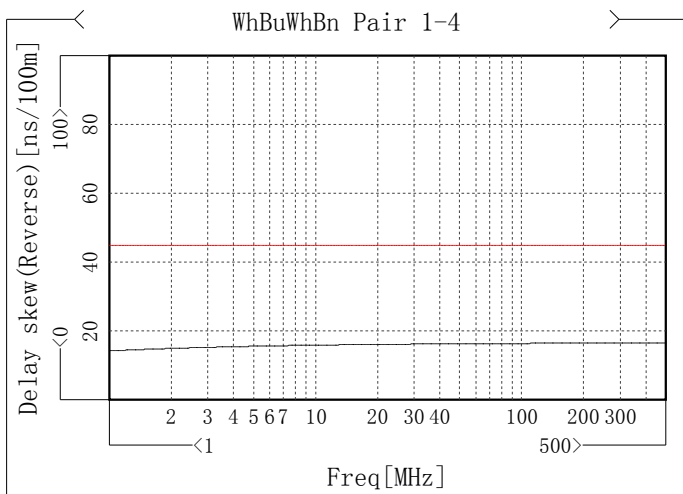
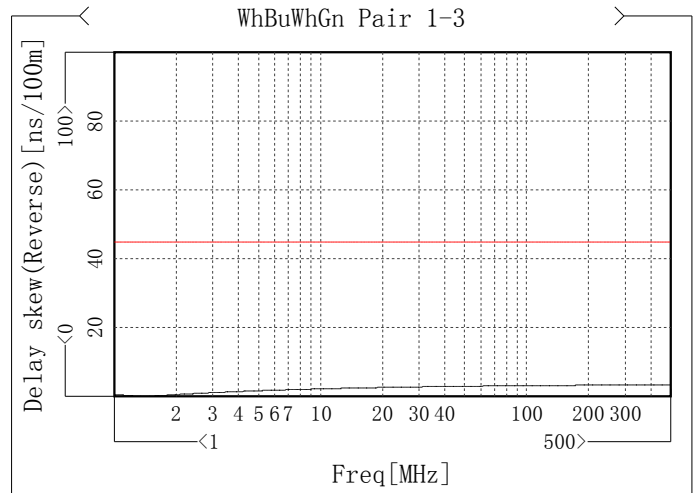
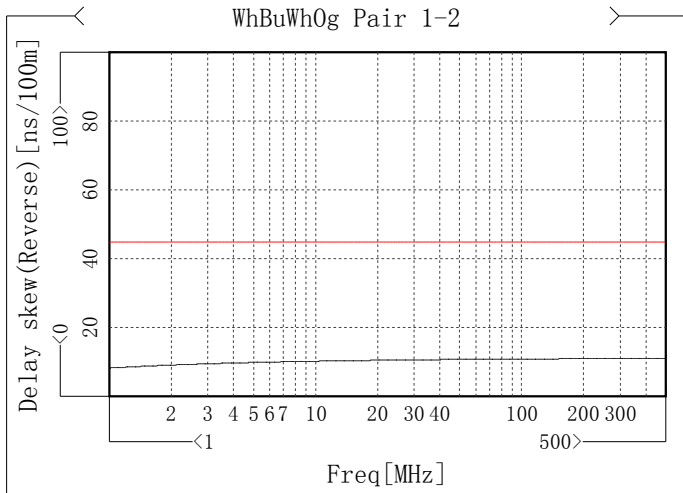
Delay (Reverse)

Item	Max [ns/100m]	Freq [MHz]	Spec [ns/100m]	Margin [ns/100m]
WhBu Pair 1	516.05	1.156	567.49	51.44
WhOg Pair 2	494.39	493.347	535.62	41.23
WhGn Pair 3	486.76	473.389	535.65	48.89
WhBn Pair 4	499.88	500	535.61	35.73



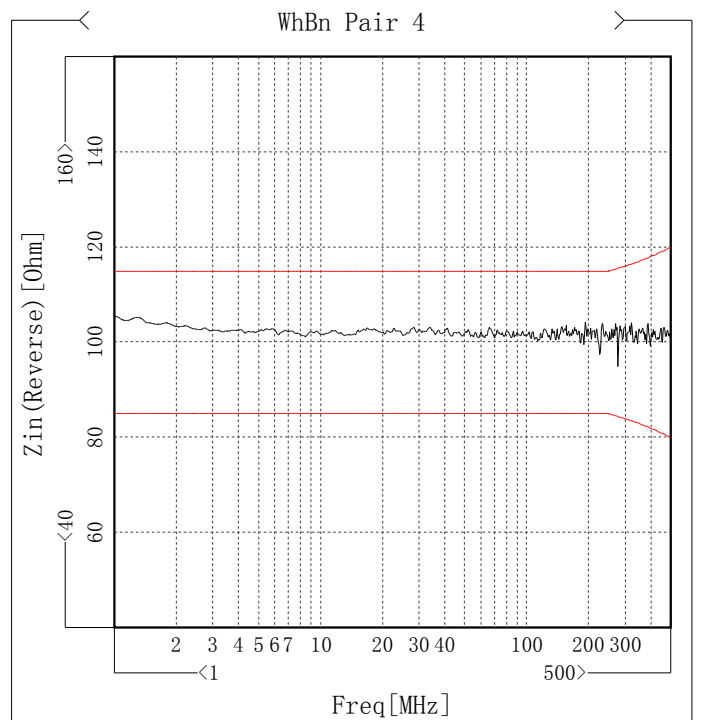
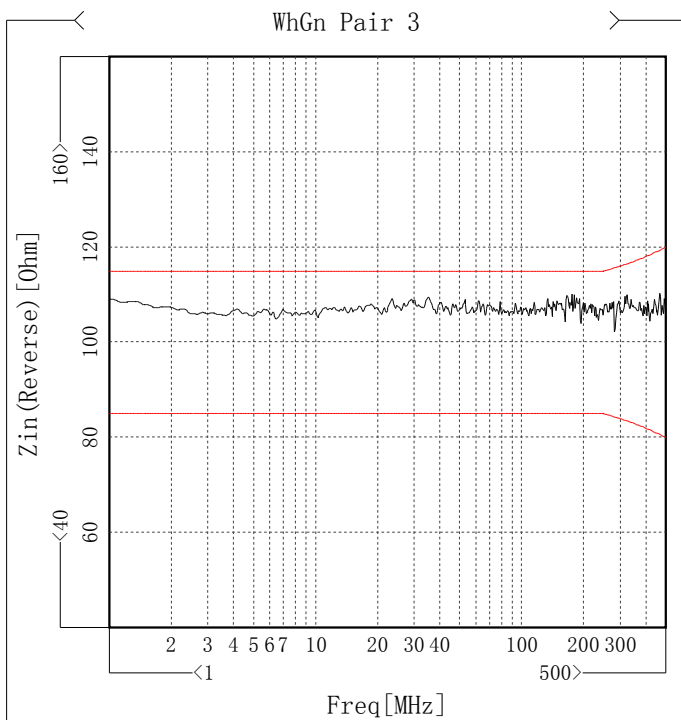
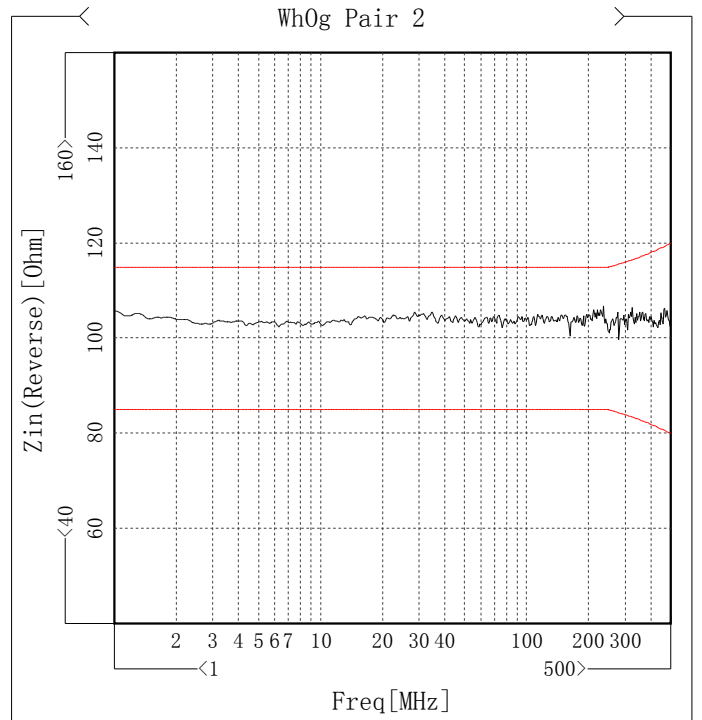
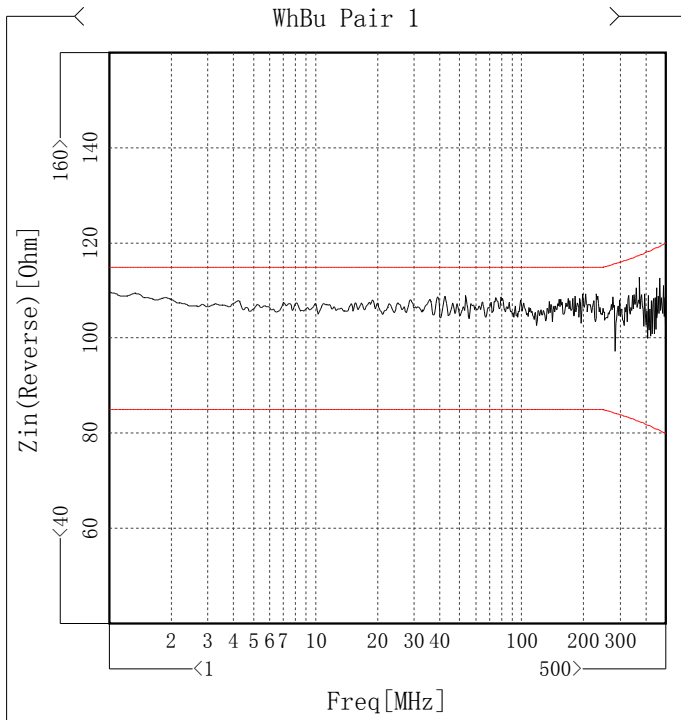
Delay skew(Reverse)

Item	Max [ns/100m]	Freq[MHz]	Spec [ns/100m]	Margin [ns/100m]
WhBuWhOg Pair 1-2	11.09	500	45	33.91
WhBuWhGn Pair 1-3	3.43	500	45	41.57
WhBuWhBn Pair 1-4	16.61	500	45	28.39
WhOgWhGn Pair 2-3	8.98	1	45	36.02
WhOgWhBn Pair 2-4	5.97	1.018	45	39.03
WhGnWhBn Pair 3-4	14.95	1	45	30.05



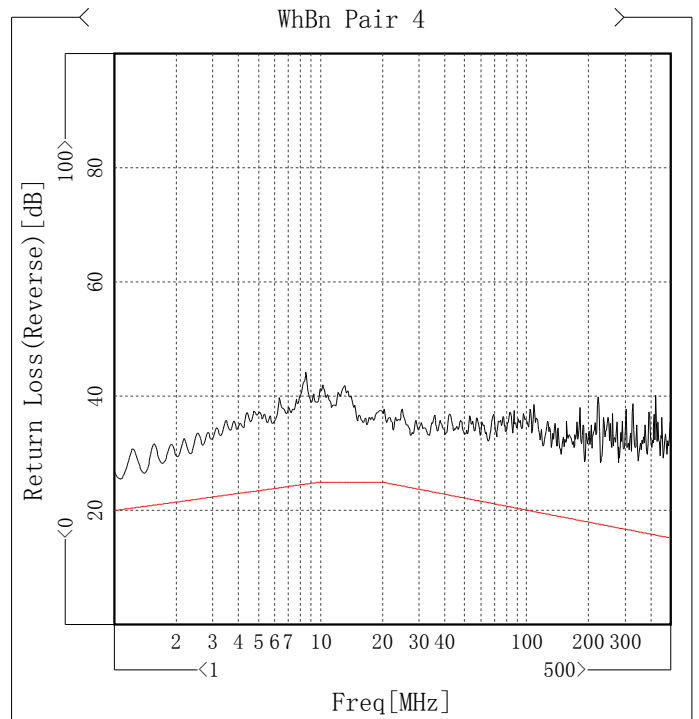
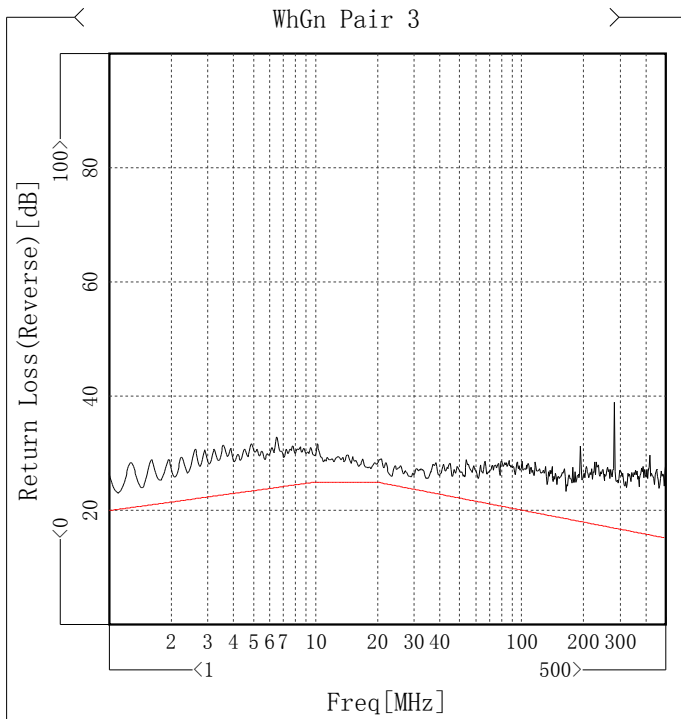
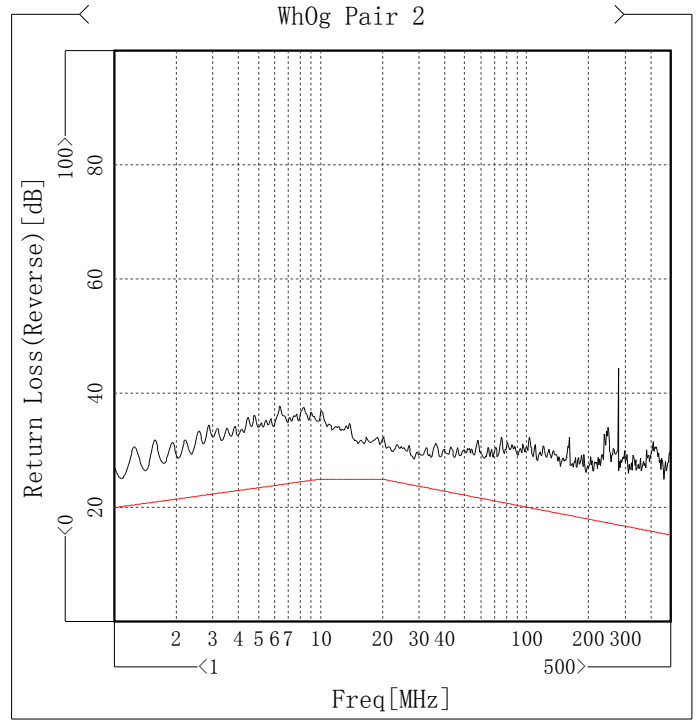
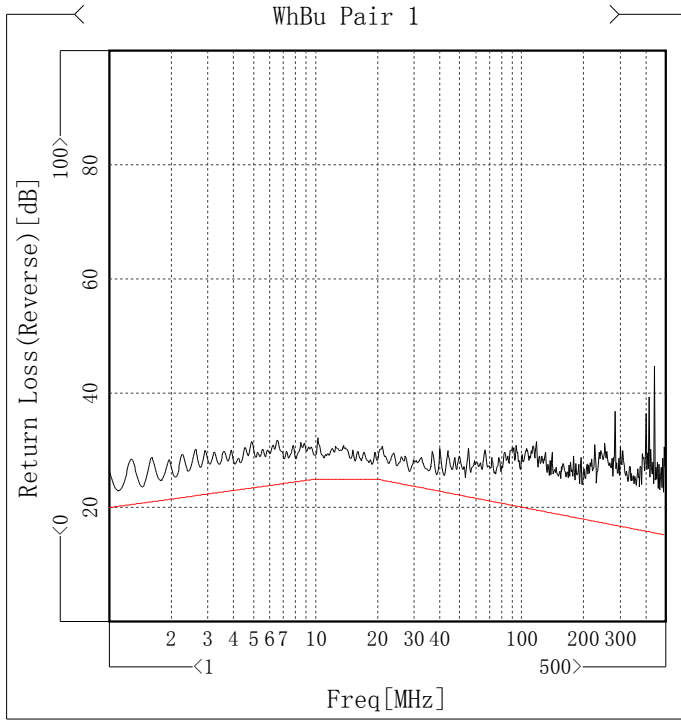
Zin(Reverse)

Item	Max [Ohm]	Freq[MHz]	Spec [Ohm]	Margin [Ohm]	Min [Ohm]	Freq[MHz]	Spec [Ohm]	Margin [Ohm]
✓ WhBu Pair 1	112.93	376.925	117.54	4.61	97.3	288.796	84.22	13.08
✓ WhOg Pair 2	106.79	239.577	115	8.21	99.61	283.996	84.32	15.29
✓ WhGn Pair 3	110.15	177.918	115	4.85	102.28	286.396	84.27	18.01
✓ WhBn Pair 4	105.55	1	115	9.45	94.93	279.195	84.42	10.51



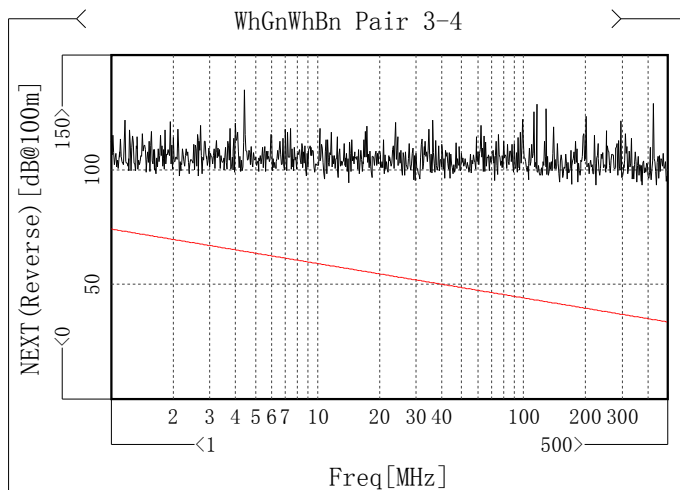
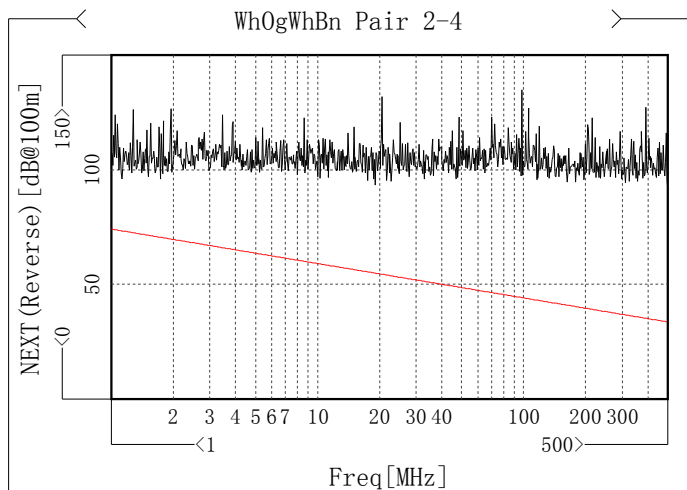
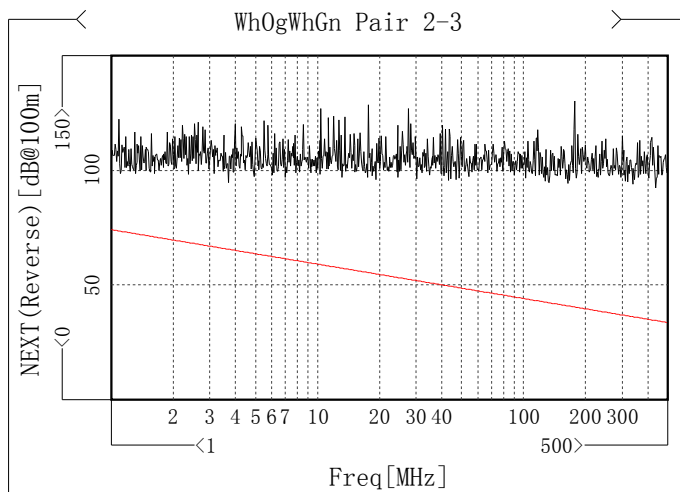
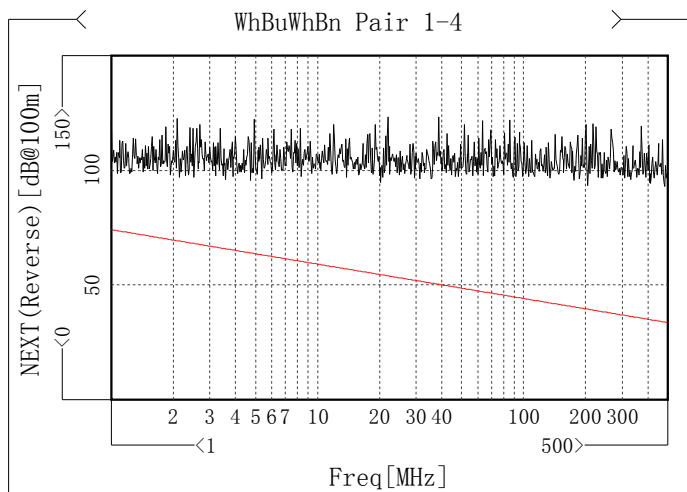
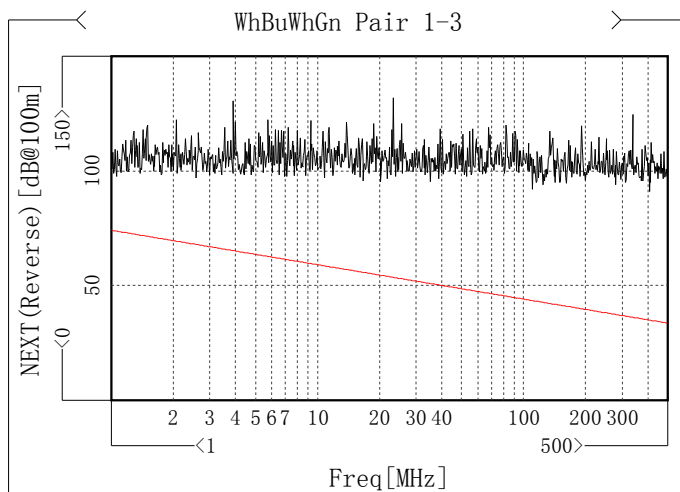
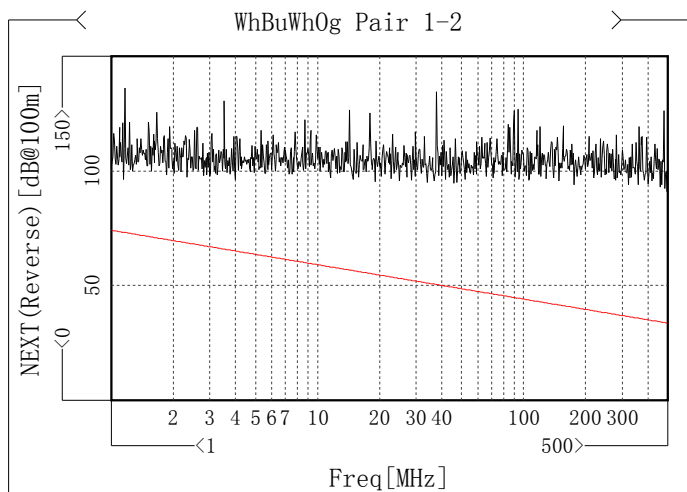
Return Loss (Reverse)

Item	Min [dB]	Freq [MHz]	Spec [dB]	Margin [dB]
WhBu Pair 1	26.33	28.955	23.88	2.45
WhOg Pair 2	28.54	28.712	23.9	4.64
WhGn Pair 3	26.01	23.706	24.48	1.53
WhBn Pair 4	25.55	1.082	20.17	5.38



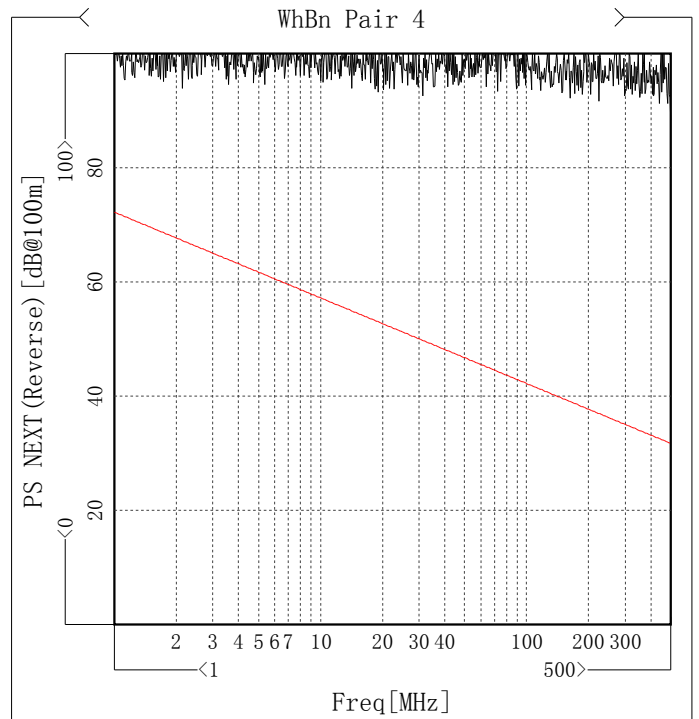
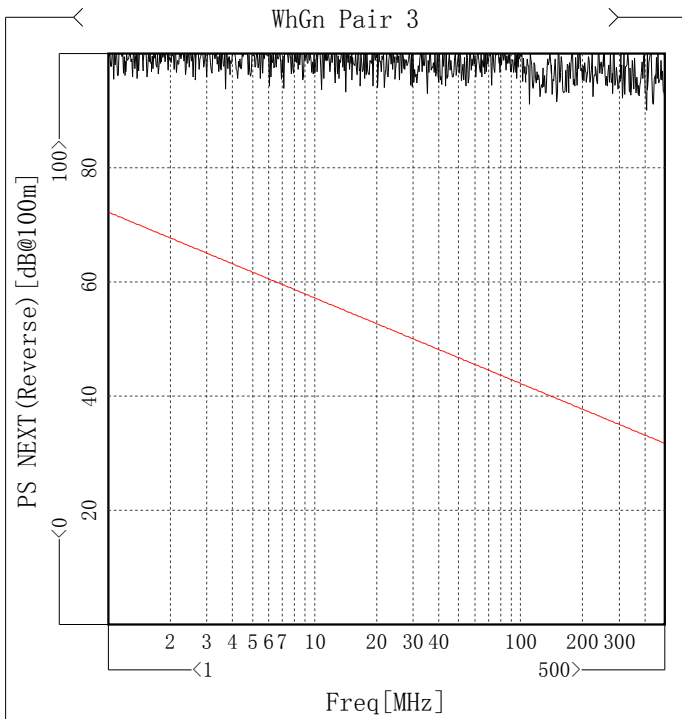
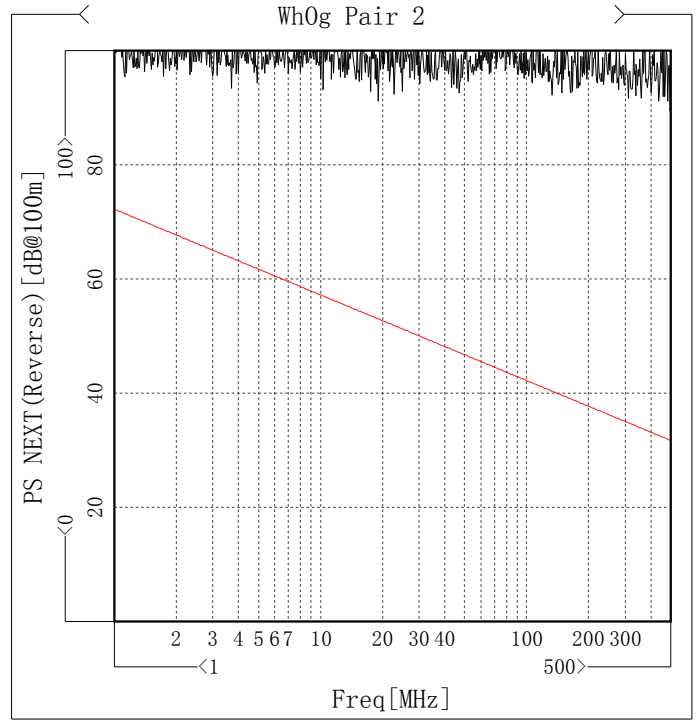
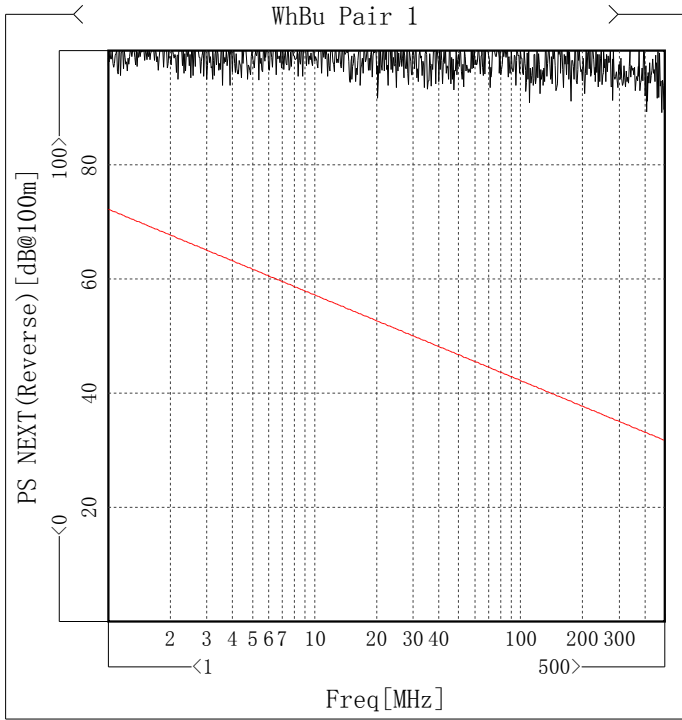
NEXT (Reverse)

Item	Min [dB@100m]	Freq [MHz]	Spec [dB@100m]	Margin [dB@100m]
WhBuWhOg Pair 1-2	96.52	1.165	73.31	23.21
WhBuWhGn Pair 1-3	97.72	1.073	73.84	23.88
WhBuWhBn Pair 1-4	98.8	1.082	73.78	25.02
WhOgWhGn Pair 2-3	98.52	1	74.3	24.22
WhOgWhBn Pair 2-4	96.23	1.146	73.41	22.82
WhGnWhBn Pair 3-4	99.68	1.238	72.91	26.77



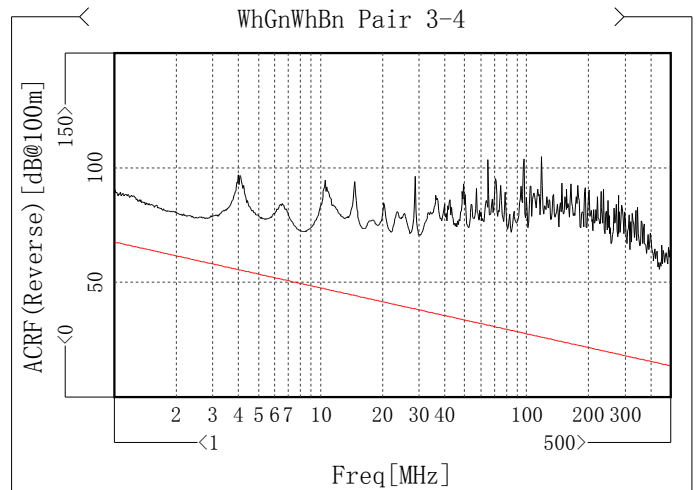
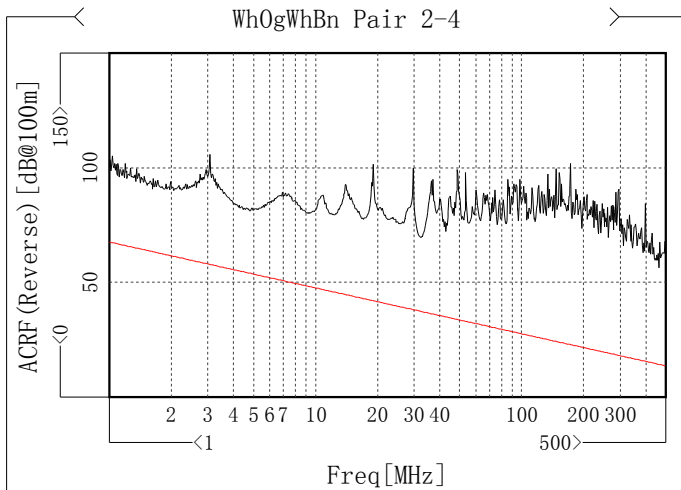
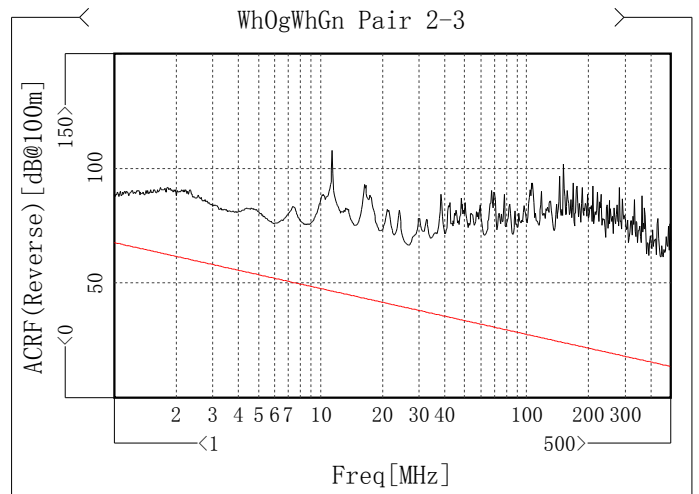
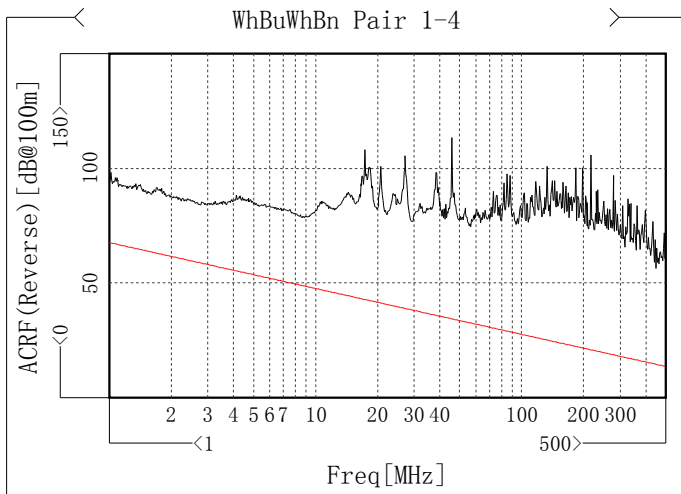
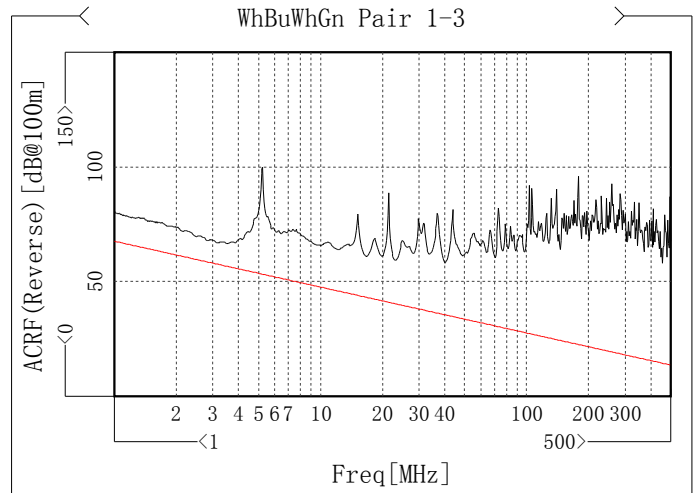
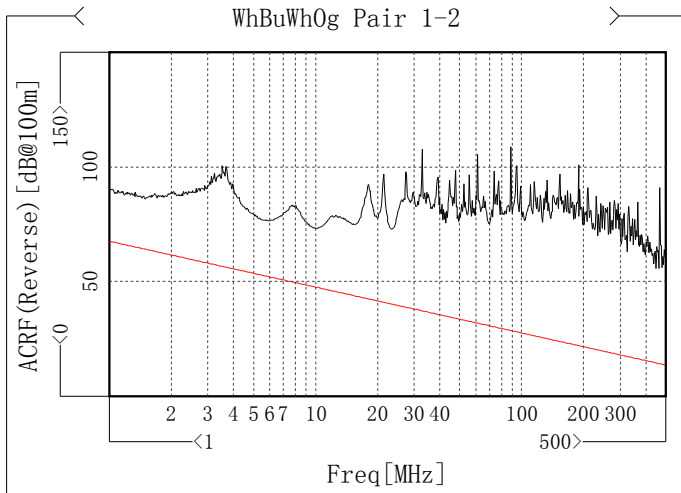
PS NEXT (Reverse)

Item	Min [dB@100m]	Freq [MHz]	Spec [dB@100m]	Margin [dB@100m]
WhBu Pair 1	95.64	1.165	71.31	24.33
WhOg Pair 2	95.44	1.146	71.41	24.03
WhGn Pair 3	95.5	1.073	71.84	23.66
WhBn Pair 4	95.43	1.146	71.41	24.02



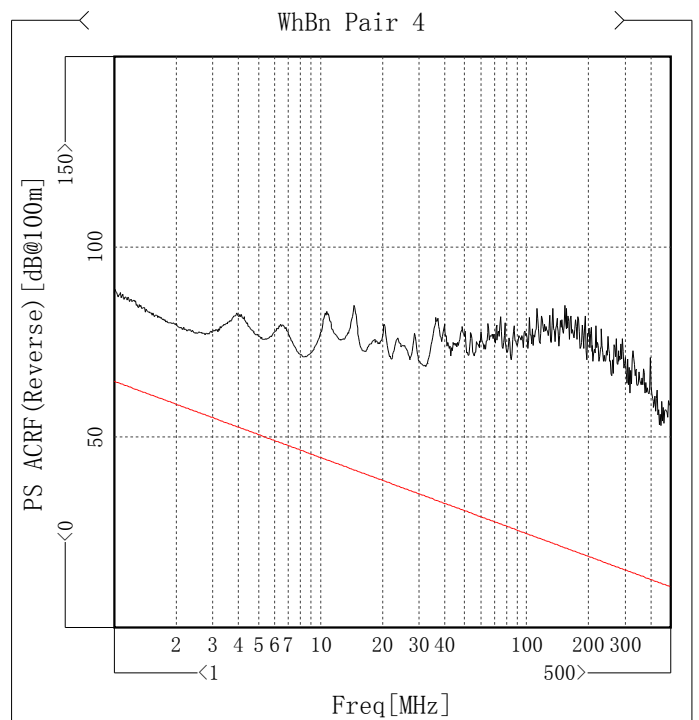
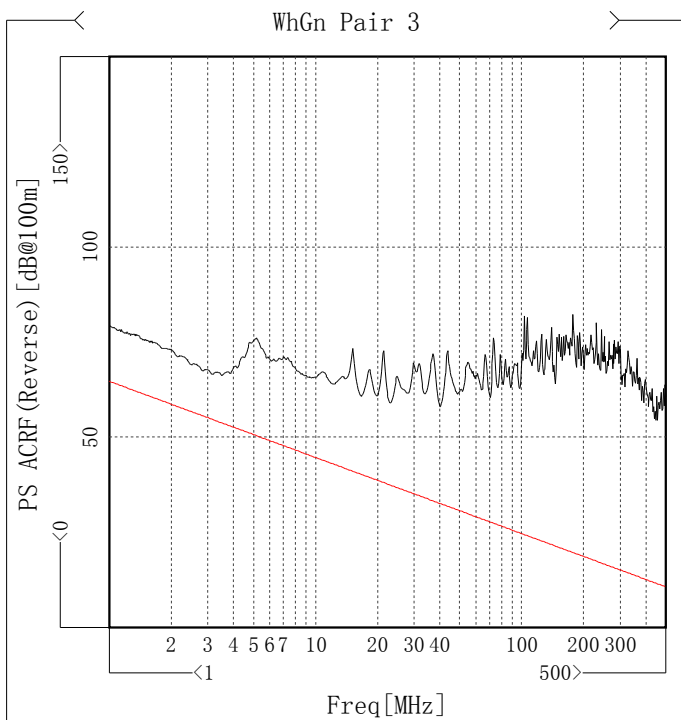
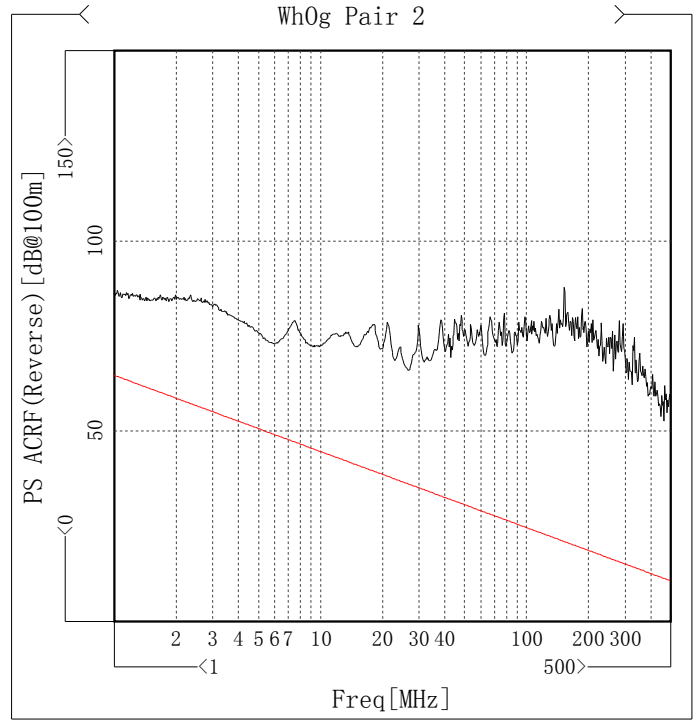
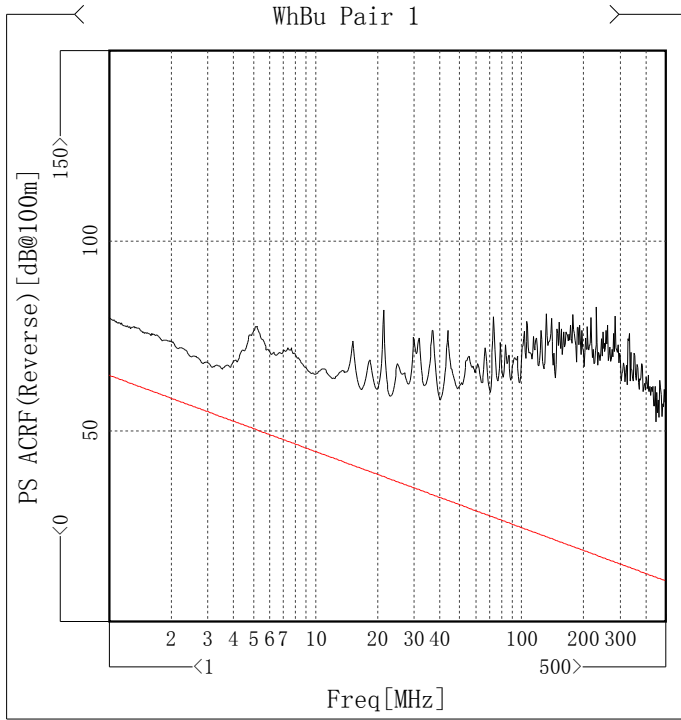
ACRF (Reverse)

Item	Min [dB@100m]	Freq [MHz]	Spec [dB@100m]	Margin [dB@100m]
WhBuWhOg Pair 1-2	88.55	1.073	67.19	21.36
WhBuWhGn Pair 1-3	66.98	3.199	57.7	9.28
WhBuWhBn Pair 1-4	84.09	2.735	59.06	25.03
WhOgWhGn Pair 2-3	87.87	1.018	67.64	20.23
WhOgWhBn Pair 2-4	81.91	4.533	54.67	27.24
WhGnWhBn Pair 3-4	79.26	2.166	61.09	18.17



PS ACRF (Reverse)

Item	Min [dB@100m]	Freq [MHz]	Spec [dB@100m]	Margin [dB@100m]
WhBu Pair 1	66.89	3.199	54.7	12.19
WhOg Pair 2	85.86	1.009	64.72	21.14
WhGn Pair 3	66.7	3.175	54.77	11.93
WhBn Pair 4	78.39	2.166	58.09	20.3





Test Report

Record File: D:\Program Files\SECR\CTS650A\TestRecord\CTS220915-25-P.cts

Insertion Loss[dB/100m]

No.	Freq [MHz]	Spec (Max)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	2.08	1.59	1.68	1.61	1.72 ↑
2	4	3.8	3.16	3.37	3.20	3.44 ↑
3	8	5.31	4.50	4.79	4.55	4.89 ↑
4	10	5.92	5.04	5.36	5.10	5.47 ↑
5	16	7.49	6.40	6.81	6.48	6.95 ↑
6	20	8.38	7.17	7.64	7.26	7.79 ↑
7	25	9.38	8.04	8.56	8.14	8.73 ↑
8	31.25	10.5	9.01	9.59	9.12	9.78 ↑
9	50	13.35	11.46	12.20	11.60	12.44 ↑
10	62.5	14.98	12.85	13.68	13.00	13.95 ↑
11	100	19.12	16.36	17.41	16.57	17.74 ↑
12	125	21.5	18.42	19.55	18.59	19.95 ↑
13	200	27.56	23.47	24.91	23.80	25.27 ↑
14	250	31.04	25.93	28.10	26.42	28.64 ↑
15	300	34.24	29.10	30.83	29.19	31.43 ↑
16	350	37.21	31.71	33.58	31.76	34.23 ↑
17	400	40.01	33.95	35.94	33.95	36.64 ↑
18	450	42.67	36.14	38.25	36.09	38.99 ↑
19	500	45.21	38.48	40.71	38.38	41.50 ↑

Delay [ns/100m]

No.	Freq [MHz]	Spec (Max)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	570	518.38	526.67	517.73	532.64 ↑
2	4	552	500.09	509.84	501.57	515.57 ↑
3	8	546.73	494.70	504.89	496.81	510.55 ↑
4	10	545.38	493.27	503.56	495.54	509.20 ↑
5	16	543	490.88	501.37	493.43	506.98 ↑
6	20	542.05	489.88	500.45	492.55	506.05 ↑
7	25	541.2	489.01	499.65	491.78	505.24 ↑
8	31.25	540.44	488.25	498.95	491.11	504.53 ↑
9	50	539.09	486.84	497.65	489.86	503.21 ↑
10	62.5	538.55	486.31	497.17	489.39	502.72 ↑
11	100	537.6	485.32	496.25	488.51	501.79 ↑
12	125	537.22	484.94	495.90	488.18	501.43 ↑
13	200	536.55	484.24	495.26	487.56	500.79 ↑
14	250	536.28	483.97	495.01	487.32	500.53 ↑
15	300	536.08	483.77	494.83	487.15	500.34 ↑
16	350	535.92	483.61	494.68	487.00	500.19 ↑
17	400	535.8	483.48	494.56	486.89	500.08 ↑
18	450	535.7	483.38	494.47	486.80	499.98 ↑
19	500	535.61	483.28	494.38	486.71	499.89 ↑

Delay skew [ns/100m]

No.	Freq [MHz]	Spec (Max)	WhBuWhOg Pair 1-2	WhBuWhGn Pair 1-3	WhBuWhBn Pair 1-4	WhOgWhGn Pair 2-3	WhOgWhBn Pair 2-4	WhGnWhBn Pair 3-4
1	1	45	8.29	0.65	14.26	8.94	5.97	14.91 ↑

Delay skew[ns/100m] (Continuation 1)

No.	Freq [MHz]	Spec (Max)	WhBuWhOg Pair 1-2	WhBuWhGn Pair 1-3	WhBuWhBn Pair 1-4	WhOgWhGn Pair 2-3	WhOgWhBn Pair 2-4	WhGnWhBn Pair 3-4
2	4	45	9.75	1.48	15.48 ↑	8.27	5.73	14.00
3	8	45	10.18	2.10	15.84 ↑	8.08	5.66	13.74
4	10	45	10.30	2.27	15.94 ↑	8.03	5.64	13.67
5	16	45	10.49	2.55	16.10 ↑	7.94	5.61	13.55
6	20	45	10.57	2.66	16.17 ↑	7.90	5.60	13.50
7	25	45	10.64	2.77	16.22 ↑	7.87	5.59	13.46
8	31.25	45	10.70	2.85	16.27 ↑	7.85	5.58	13.42
9	50	45	10.81	3.02	16.37 ↑	7.79	5.56	13.35
10	62.5	45	10.85	3.08	16.40 ↑	7.78	5.55	13.33
11	100	45	10.93	3.19	16.47 ↑	7.74	5.54	13.28
12	125	45	10.96	3.24	16.50 ↑	7.73	5.53	13.26
13	200	45	11.02	3.32	16.54 ↑	7.70	5.52	13.22
14	250	45	11.04	3.35	16.56 ↑	7.69	5.52	13.21
15	300	45	11.06	3.37	16.57 ↑	7.68	5.52	13.20
16	350	45	11.07	3.39	16.58 ↑	7.68	5.51	13.19
17	400	45	11.08	3.41	16.59 ↑	7.67	5.51	13.19
18	450	45	11.09	3.42	16.60 ↑	7.67	5.51	13.18
19	500	45	11.10	3.43	16.61 ↑	7.67	5.51	13.18

Zin[Ohm]

No.	Freq [MHz]	Spec		WhBu	WhOg	WhGn	WhBn
		(Max)	(Min)	Pair 1	Pair 2	Pair 3	Pair 4
1	1	115	85	109.62 ↑	106.32	109.26	105.24 ↓
2	4	115	85	107.58 ↑	103.75	106.92	102.34 ↓
3	8	115	85	109.39 ↑	103.76	107.50	102.70 ↓
4	10	115	85	108.15 ↑	104.22	106.82	103.25 ↓
5	16	115	85	108.32 ↑	104.10	107.01	102.46 ↓
6	20	115	85	108.56 ↑	103.00	107.01	102.22 ↓
7	25	115	85	107.94 ↑	103.36	105.58	102.74 ↓
8	31.25	115	85	109.38 ↑	104.11	107.62	102.19 ↓
9	50	115	85	108.17 ↑	104.25	107.51	102.42 ↓
10	62.5	115	85	108.55 ↑	104.10	106.72	101.48 ↓
11	100	115	85	106.16	103.56	106.47 ↑	102.54 ↓
12	125	115	85	109.47 ↑	102.78	108.96	101.95 ↓
13	200	115	85	107.33 ↑	104.00	106.92	101.94 ↓
14	250	115	85	108.18 ↑	102.08 ↓	106.47	103.12
15	300	116	84	108.67 ↑	102.82 ↓	108.35	103.50
16	350	117	83	109.35 ↑	103.65	106.94	100.95 ↓
17	400	118	82	108.44 ↑	102.50	107.41	99.82 ↓
18	450	119	81	107.85 ↑	104.57	106.67	102.82 ↓
19	500	120	80	107.45 ↑	100.58 ↓	106.84	102.63

Return Loss[dB]

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	20	26.98	27.49	26.88 ↓	27.37
2	4	23.01	28.96 ↓	32.03	29.18	33.70

Return Loss[dB] (Continuation 1)

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
3	8	24.52	27.11 ↓	34.34	28.96	37.51
4	10	25	28.23 ↓	33.60	29.76	36.16
5	16	25	27.66 ↓	33.43	29.25	36.99
6	20	25	26.77 ↓	34.61	28.47	33.62
7	25	24.32	27.08 ↓	31.59	29.45	32.58
8	31.25	23.64	26.12 ↓	31.32	27.34	33.19
9	50	22.21	26.33 ↓	32.21	26.96	33.52
10	62.5	21.54	26.66 ↓	31.81	28.68	31.36
11	100	20.11	28.84	32.52	28.12 ↓	34.45
12	125	19.43	25.26 ↓	32.07	25.77	30.74
13	200	18	27.07 ↓	32.17	27.28	33.24
14	250	17.32	26.40 ↓	34.05	28.31	32.73
15	300	16.77	26.22 ↓	30.35	26.47	31.58
16	350	16.3	24.90 ↓	29.12	27.76	30.66
17	400	15.89	26.40 ↓	31.17	27.65	29.51
18	450	15.53	26.54 ↓	28.43	27.00	32.00
19	500	15.21	28.31 ↓	31.47	28.32	31.83

NEXT [dB@100m]

No.	Freq [MHz]	Spec (Min)	WhBuWhOg Pair 1-2	WhBuWhGn Pair 1-3	WhBuWhBn Pair 1-4	WhOgWhGn Pair 2-3	WhOgWhBn Pair 2-4	WhGnWhBn Pair 3-4
1	1	74.3	102.47	87.54	91.69	82.50 ↓	93.26	89.54
2	4	65.27	79.59	78.38 ↓	88.99	80.74	88.77	89.04
3	8	60.75	91.91	74.02 ↓	85.26	75.99	84.67	80.17
4	10	59.3	76.83	70.55 ↓	89.17	76.67	82.20	71.20
5	16	56.24	76.46	76.21	70.69	69.52	80.54	66.07 ↓
6	20	54.78	69.03	72.99	79.17	68.27 ↓	76.71	71.25
7	25	53.33	66.35	74.77	65.53 ↓	82.31	76.60	77.81
8	31.25	51.88	68.69	63.11 ↓	65.06	72.07	70.70	76.21
9	50	48.82	73.04	64.32 ↓	72.31	65.42	70.00	72.53
10	62.5	47.36	63.26	62.56 ↓	71.89	71.71	70.95	66.66
11	100	44.3	64.56	58.42 ↓	61.08	74.75	73.16	68.41
12	125	42.85	57.70	61.95	59.22	56.11	60.04	52.81 ↓
13	200	39.78	53.78	66.67	56.96	64.38	69.67	53.54 ↓
14	250	38.33	45.95 ↓	54.43	60.52	50.48	73.20	52.57
15	300	37.14	49.76	49.51 ↓	73.39	52.44	58.00	49.79
16	350	36.14	51.86	55.05	59.80	50.36	66.29	48.10 ↓
17	400	35.27	47.61 ↓	61.50	57.31	63.31	50.32	48.79
18	450	34.5	54.57	50.77	54.66	52.25	51.48	43.81 ↓
19	500	33.82	57.68	49.97	63.15	51.64	63.39	49.01 ↓

PS NEXT [dB@100m]

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	72.3	86.03	82.11	80.71 ↓	86.46
2	4	63.27	75.71 ↓	76.82	76.13	84.15
3	8	58.75	73.64	75.33	71.25 ↓	77.92



Test Report

Record File: D:\Program Files\SECR\CTS650A\TestRecord\CTS220915-25-P.cts

PS NEXT[dB@100m] (Continuation 1)

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
4	10	57.3	69.56	72.99	67.28 ↓	70.78
5	16	54.24	68.78	68.41	64.15 ↓	64.65
6	20	52.78	67.24	65.28 ↓	65.60	69.60
7	25	51.33	62.63 ↓	65.82	72.48	64.94
8	31.25	49.88	60.27 ↓	65.24	62.24	63.68
9	50	46.82	62.74	63.16	61.27 ↓	66.06
10	62.5	45.36	59.43 ↓	61.94	60.70	63.94
11	100	42.3	55.68 ↓	63.54	57.72	60.03
12	125	40.85	54.49	52.83	50.78 ↓	51.21
13	200	37.78	51.35 ↓	53.05	52.90	51.74
14	250	36.33	45.24	44.63 ↓	47.41	51.87
15	300	35.14	46.59	47.35	45.54 ↓	49.06
16	350	34.14	49.04	47.71	45.50 ↓	47.40
17	400	33.27	46.92	45.64 ↓	48.38	46.05
18	450	32.5	48.11	47.78	42.51 ↓	42.82
19	500	31.82	49.12	50.45	45.30 ↓	48.70

ACRF [dB@100m]

No.	Freq [MHz]	Spec (Min)	WhBuWhOg Pair 1-2	WhBuWhGn Pair 1-3	WhBuWhBn Pair 1-4	WhOgWhGn Pair 2-3	WhOgWhBn Pair 2-4	WhGnWhBn Pair 3-4
1	1	67.8	90.22	80.46 ↓	96.77	89.24	101.51	89.09
2	4	55.76	90.27	67.81 ↓	84.82	81.07	84.22	85.43
3	8	49.74	89.68	71.94	79.00	79.92	88.95	71.62 ↓
4	10	47.8	73.06	66.95 ↓	81.46	80.05	80.09	80.44
5	16	43.72	73.32	62.49 ↓	84.72	77.78	79.55	74.77
6	20	41.78	75.44	59.97 ↓	81.96	74.03	82.27	80.02
7	25	39.84	72.92	60.44 ↓	87.43	70.16	76.06	80.07
8	31.25	37.9	80.13	69.01	93.72	68.21 ↓	75.54	73.73
9	50	33.82	74.56	63.31 ↓	82.35	79.52	88.74	86.50
10	62.5	31.88	93.36	67.89 ↓	80.67	74.67	90.49	78.07
11	100	27.8	89.46	69.28 ↓	76.22	76.17	83.79	76.36
12	125	25.86	84.76	71.94 ↓	86.24	78.23	83.85	84.52
13	200	21.78	82.31	72.97 ↓	82.53	82.51	83.30	83.95
14	250	19.84	76.35 ↓	82.78	76.83	77.58	96.16	87.36
15	300	18.26	84.00	76.34	77.42	79.12	76.39	72.98 ↓
16	350	16.92	68.83 ↓	77.19	73.37	73.52	73.69	71.73
17	400	15.76	70.70	65.07	69.15	71.88	62.82 ↓	70.11
18	450	14.74	56.55	56.52 ↓	59.06	57.42	57.04	63.47
19	500	13.82	65.77	59.42 ↓	61.19	63.88	60.06	70.58

PS ACRF [dB@100m]

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	64.8	79.93	86.55	79.42 ↓	88.20
2	4	52.76	67.69	79.00	67.53 ↓	80.02
3	8	46.74	71.09	79.01	68.44 ↓	70.83
4	10	44.8	65.88 ↓	71.60	66.56	75.85



Test Report

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PS ACRF[dB@100m] (Continuation 1)

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
5	16	40.72	62.12	71.28	62.12 ↓	73.21
6	20	38.78	59.82	71.30	59.76 ↓	76.53
7	25	36.84	60.19	67.63	59.95 ↓	74.33
8	31.25	34.9	68.67	67.24	64.95 ↓	71.48
9	50	30.82	62.94 ↓	73.21	63.19	79.94
10	62.5	28.88	67.64	74.46	66.68 ↓	75.99
11	100	24.8	68.34	75.19	67.70 ↓	72.89
12	125	22.86	71.57	76.45	70.81 ↓	79.98
13	200	18.78	72.03	77.79	71.84 ↓	78.31
14	250	16.84	73.04 ↓	73.85	76.09	76.22
15	300	15.26	72.52	71.87	70.13	70.07 ↓
16	350	13.92	66.78	66.37 ↓	67.83	68.04
17	400	12.76	62.80	61.60	63.12	61.17 ↓
18	450	11.74	52.42	52.18 ↓	53.47	54.34
19	500	10.82	56.64 ↓	57.80	57.85	57.36

Insertion Loss(Reverse) [dB/100m]

No.	Freq [MHz]	Spec (Max)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	2.08	1.58	1.68	1.60	1.72 ↑
2	4	3.8	3.16	3.37	3.20	3.44 ↑
3	8	5.31	4.50	4.79	4.55	4.89 ↑
4	10	5.92	5.04	5.36	5.10	5.47 ↑
5	16	7.49	6.40	6.81	6.48	6.95 ↑
6	20	8.38	7.17	7.63	7.26	7.79 ↑
7	25	9.38	8.04	8.56	8.13	8.73 ↑
8	31.25	10.5	9.01	9.59	9.11	9.78 ↑
9	50	13.35	11.46	12.21	11.60	12.44 ↑
10	62.5	14.98	12.85	13.68	13.00	13.94 ↑
11	100	19.12	16.36	17.42	16.58	17.75 ↑
12	125	21.5	18.41	19.53	18.59	19.93 ↑
13	200	27.56	23.50	24.93	23.79	25.45 ↑
14	250	31.04	26.08	28.10	26.74	28.55 ↑
15	300	34.24	29.13	30.83	29.32	31.30 ↑
16	350	37.21	31.76	33.59	31.93	34.07 ↑
17	400	40.01	34.00	35.95	34.16	36.43 ↑
18	450	42.67	36.21	38.26	36.34	38.74 ↑
19	500	45.21	38.56	40.73	38.67	41.20 ↑

Delay(Reverse) [ns/100m]

No.	Freq [MHz]	Spec (Max)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	570	518.40	526.72	517.74	532.69 ↑
2	4	552	500.10	509.86	501.57	515.59 ↑
3	8	546.73	494.71	504.90	496.81	510.56 ↑
4	10	545.38	493.27	503.58	495.54	509.22 ↑
5	16	543	490.88	501.38	493.43	506.99 ↑

Delay (Reverse) [ns/100m] (Continuation 1)

No.	Freq [MHz]	Spec (Max)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
6	20	542.05	489.88	500.46	492.55	506.05 ↑
7	25	541.2	489.01	499.66	491.78	505.24 ↑
8	31.25	540.44	488.25	498.95	491.11	504.53 ↑
9	50	539.09	486.84	497.65	489.86	503.21 ↑
10	62.5	538.55	486.31	497.17	489.39	502.72 ↑
11	100	537.6	485.32	496.25	488.51	501.79 ↑
12	125	537.22	484.94	495.90	488.18	501.43 ↑
13	200	536.55	484.24	495.26	487.56	500.79 ↑
14	250	536.28	483.97	495.01	487.32	500.53 ↑
15	300	536.08	483.77	494.83	487.14	500.34 ↑
16	350	535.92	483.60	494.67	487.00	500.19 ↑
17	400	535.8	483.48	494.56	486.89	500.07 ↑
18	450	535.7	483.38	494.46	486.80	499.98 ↑
19	500	535.61	483.28	494.37	486.71	499.88 ↑

Delay skew (Reverse) [ns/100m]

No.	Freq [MHz]	Spec (Max)	WhBuWhOg Pair 1-2	WhBuWhGn Pair 1-3	WhBuWhBn Pair 1-4	WhOgWhGn Pair 2-3	WhOgWhBn Pair 2-4	WhGnWhBn Pair 3-4
1	1	45	8.32	0.65	14.29	8.98	5.97	14.95 ↑
2	4	45	9.77	1.47	15.50 ↑	8.29	5.73	14.02
3	8	45	10.19	2.10	15.85 ↑	8.09	5.66	13.75
4	10	45	10.31	2.27	15.95 ↑	8.04	5.64	13.68
5	16	45	10.49	2.55	16.10 ↑	7.95	5.61	13.56
6	20	45	10.57	2.66	16.17 ↑	7.91	5.60	13.51
7	25	45	10.64	2.76	16.23 ↑	7.88	5.59	13.46
8	31.25	45	10.70	2.85	16.28 ↑	7.85	5.58	13.43
9	50	45	10.81	3.02	16.37 ↑	7.80	5.56	13.35
10	62.5	45	10.86	3.08	16.41 ↑	7.78	5.55	13.33
11	100	45	10.93	3.19	16.47 ↑	7.74	5.54	13.28
12	125	45	10.96	3.24	16.50 ↑	7.73	5.53	13.26
13	200	45	11.02	3.32	16.54 ↑	7.70	5.52	13.22
14	250	45	11.04	3.35	16.56 ↑	7.69	5.52	13.21
15	300	45	11.06	3.37	16.57 ↑	7.68	5.52	13.20
16	350	45	11.07	3.39	16.58 ↑	7.68	5.51	13.19
17	400	45	11.08	3.41	16.59 ↑	7.67	5.51	13.18
18	450	45	11.09	3.42	16.60 ↑	7.67	5.51	13.18
19	500	45	11.09	3.43	16.61 ↑	7.66	5.51	13.17

Zin (Reverse) [Ohm]

No.	Freq [MHz]	Spec		WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
		(Max)	(Min)				
1	1	115	85	109.72 ↑	105.82	109.20	105.55 ↓
2	4	115	85	107.22 ↑	103.58	106.59	102.57 ↓
3	8	115	85	106.63 ↑	103.38	106.12	101.82 ↓
4	10	115	85	107.34 ↑	103.15	106.77	101.81 ↓
5	16	115	85	107.27 ↑	104.31	106.77	102.39 ↓
6	20	115	85	107.23	104.20	107.37 ↑	102.09 ↓

Zin(Reverse) [Ohm] (Continuation 1)

No.	Freq [MHz]	Spec		WhBu	WhOg	WhGn	WhBn
		(Max)	(Min)	Pair 1	Pair 2	Pair 3	Pair 4
7	25	115	85	106.79	104.15	107.59 ↑	102.07 ↓
8	31.25	115	85	106.52	104.96	107.88 ↑	102.37 ↓
9	50	115	85	105.58	103.81	106.73 ↑	101.74 ↓
10	62.5	115	85	106.24	103.65	108.50 ↑	101.40 ↓
11	100	115	85	107.75 ↑	104.11	107.26	101.41 ↓
12	125	115	85	105.65	103.99	106.80 ↑	102.64 ↓
13	200	115	85	109.19 ↑	104.43	107.57	102.81 ↓
14	250	115	85	106.34 ↑	101.65	105.69	101.17 ↓
15	300	116	84	105.41	104.58	108.58 ↑	102.30 ↓
16	350	117	83	107.63 ↑	104.21	107.58	100.75 ↓
17	400	118	82	108.94 ↑	104.49	106.07	101.11 ↓
18	450	119	81	108.38 ↑	102.83	108.12	102.25 ↓
19	500	120	80	98.71 ↓	102.56	104.41 ↑	100.83

Return Loss(Reverse) [dB]

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	20	26.90	27.54	26.70 ↓	27.24
2	4	23.01	29.44 ↓	32.75	29.76	34.29
3	8	24.52	30.26 ↓	35.32	30.59	39.41
4	10	25	29.22 ↓	36.07	29.68	41.30
5	16	25	28.65 ↓	31.84	28.70	36.07
6	20	25	28.36	31.78	28.14 ↓	37.43
7	25	24.32	27.53	30.61	27.26 ↓	37.30
8	31.25	23.64	28.16	29.19	27.31 ↓	35.13
9	50	22.21	28.86	30.11	27.15 ↓	33.70
10	62.5	21.54	27.39	28.85	25.70 ↓	34.97
11	100	20.11	27.48	30.44	27.30 ↓	35.98
12	125	19.43	27.90	29.17	26.70 ↓	33.39
13	200	18	24.56 ↓	27.29	25.66	31.95
14	250	17.32	28.36	34.04	27.20 ↓	36.36
15	300	16.77	27.85	28.69	25.38 ↓	30.87
16	350	16.3	25.36 ↓	27.29	26.05	29.75
17	400	15.89	26.58 ↓	28.11	27.16	37.05
18	450	15.53	25.45 ↓	28.37	26.19	29.69
19	500	15.21	30.19	31.88	28.28 ↓	35.92

NEXT(Reverse) [dB@100m]

No.	Freq [MHz]	Spec (Min)	WhBuWhOg Pair 1-2	WhBuWhGn Pair 1-3	WhBuWhBn Pair 1-4	WhOgWhGn Pair 2-3	WhOgWhBn Pair 2-4	WhGnWhBn Pair 3-4
1	1	74.3	106.29	101.17	101.01	98.52 ↓	101.70	112.13
2	4	65.27	110.65	106.70	106.18	103.88 ↓	107.30	108.83
3	8	60.75	108.67	103.98	105.19	100.10 ↓	105.31	104.59
4	10	59.3	108.85	107.23	106.32	104.72	102.73	102.16 ↓
5	16	56.24	102.35 ↓	105.52	103.60	110.36	103.59	102.93
6	20	54.78	106.26	109.06	105.90 ↓	111.63	107.04	106.96
7	25	53.33	104.26	103.76	105.77	100.32 ↓	103.54	102.10

NEXT (Reverse) [dB@100m] (Continuation 1)

No.	Freq [MHz]	Spec (Min)	WhBuWhOg Pair 1-2	WhBuWhGn Pair 1-3	WhBuWhBn Pair 1-4	WhOgWhGn Pair 2-3	WhOgWhBn Pair 2-4	WhGnWhBn Pair 3-4
8	31.25	51.88	103.76	102.56	104.50	104.01	103.24	99.60 ↓
9	50	48.82	101.67 ↓	108.25	107.71	111.42	108.05	102.41
10	62.5	47.36	103.07	108.94	101.42 ↓	105.38	106.25	108.77
11	100	44.3	107.53	105.74	99.86 ↓	101.96	100.41	117.87
12	125	42.85	106.03	97.84 ↓	101.57	103.65	101.06	99.95
13	200	39.78	105.07	99.07 ↓	103.47	106.46	101.35	104.14
14	250	38.33	98.39 ↓	98.63	100.04	105.55	100.91	102.28
15	300	37.14	98.90	97.97 ↓	100.34	98.67	108.06	114.43
16	350	36.14	100.10	102.34	103.99	99.15 ↓	103.65	105.14
17	400	35.27	113.84	104.78	106.92	105.57	103.07	102.86 ↓
18	450	34.5	109.51	103.54	98.08	97.18 ↓	105.45	103.19
19	500	33.82	102.12	100.59	94.84	100.54	91.46 ↓	94.03

PS NEXT (Reverse) [dB@100m]

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	72.3	97.47	96.35 ↓	96.51	98.15
2	4	63.27	101.46	99.21	98.34 ↓	101.16
3	8	58.75	100.19	98.36	97.26 ↓	99.64
4	10	57.3	102.47	99.96	99.23	98.40 ↓
5	16	54.24	97.70	99.36	98.77	97.62 ↓
6	20	52.78	102.07	102.78	103.94	101.78 ↓
7	25	51.33	99.61	96.51	96.34 ↓	98.45
8	31.25	49.88	98.64	98.32	96.68 ↓	97.00
9	50	46.82	98.85 ↓	99.67	100.26	99.03
10	62.5	45.36	97.84 ↓	99.51	102.08	99.38
11	100	42.3	98.20	97.46	100.16	96.98 ↓
12	125	40.85	95.83	97.89	94.38 ↓	95.69
13	200	37.78	96.48 ↓	98.18	97.20	97.61
14	250	36.33	94.18 ↓	95.95	96.46	96.19
15	300	35.14	93.98 ↓	95.35	94.59	98.24
16	350	34.14	96.99	95.32 ↓	96.62	99.29
17	400	33.27	102.06	99.73	99.39	98.37 ↓
18	450	32.5	96.70	96.31	95.42 ↓	96.21
19	500	31.82	93.22	90.63	92.43	88.42 ↓

ACRF (Reverse) [dB@100m]

No.	Freq [MHz]	Spec (Min)	WhBuWhOg Pair 1-2	WhBuWhGn Pair 1-3	WhBuWhBn Pair 1-4	WhOgWhGn Pair 2-3	WhOgWhBn Pair 2-4	WhGnWhBn Pair 3-4
1	1	67.8	91.08	80.45 ↓	96.24	88.85	99.76	89.06
2	4	55.76	91.19	67.82 ↓	86.12	81.17	85.64	93.68
3	8	49.74	83.11	71.30 ↓	80.39	78.55	85.58	72.94
4	10	47.8	73.49	65.95 ↓	81.38	85.18	81.69	82.75
5	16	43.72	75.27	66.33 ↓	84.76	80.83	82.30	74.55
6	20	41.78	78.21	61.30 ↓	82.48	73.38	83.35	77.81
7	25	39.84	77.38	67.07 ↓	84.50	73.33	76.45	78.22
8	31.25	37.9	82.96	71.64	81.35	74.72	75.99	71.00 ↓



Test Report

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ACRF (Reverse) [dB@100m] (Continuation 1)

No.	Freq [MHz]	Spec (Min)	WhBuWhOg Pair 1-2	WhBuWhGn Pair 1-3	WhBuWhBn Pair 1-4	WhOgWhGn Pair 2-3	WhOgWhBn Pair 2-4	WhGnWhBn Pair 3-4
9	50	33.82	77.47	61.94 ↓	77.77	81.29	88.87	89.76
10	62.5	31.88	89.30	67.76 ↓	80.72	72.44	81.75	77.21
11	100	27.8	87.72	66.26 ↓	81.71	79.19	86.42	81.97
12	125	25.86	86.89	73.77 ↓	86.66	79.75	82.71	82.47
13	200	21.78	76.15	74.71 ↓	97.15	87.29	81.08	81.43
14	250	19.84	83.29	78.73	82.37	73.95 ↓	78.66	85.52
15	300	18.26	76.77	77.57	72.04 ↓	78.81	90.54	73.80
16	350	16.92	71.88	68.91	68.72	70.34	66.59 ↓	77.08
17	400	15.76	63.30 ↓	76.43	75.56	67.83	63.99	66.73
18	450	14.74	63.30	71.66	68.89	61.81	59.95	58.79 ↓
19	500	13.82	61.53 ↓	67.91	76.15	68.35	62.96	62.63

PS ACRF (Reverse) [dB@100m]

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	64.8	79.99	86.60	79.37 ↓	88.00
2	4	52.76	67.74	79.52	67.61 ↓	82.52
3	8	46.74	70.55	76.65	68.57 ↓	72.03
4	10	44.8	65.14 ↓	72.63	65.80	77.13
5	16	40.72	65.75	73.57	65.58 ↓	73.53
6	20	38.78	61.18	71.82	60.95 ↓	75.68
7	25	36.84	66.61	70.53	65.85 ↓	73.84
8	31.25	34.9	70.91	71.93	67.39 ↓	69.48
9	50	30.82	61.70 ↓	75.58	61.87	77.05
10	62.5	28.88	67.48	71.80	66.13 ↓	74.63
11	100	24.8	65.98	77.80	65.85 ↓	77.02
12	125	22.86	73.14	77.24	72.20 ↓	78.41
13	200	18.78	71.89 ↓	74.10	73.48	77.34
14	250	16.84	76.20	72.31 ↓	72.41	76.45
15	300	15.26	69.71	74.03	71.30	69.66 ↓
16	350	13.92	63.67	63.25 ↓	65.41	63.87
17	400	12.76	62.65	59.74 ↓	63.93	61.84
18	450	11.74	61.71	56.69	56.85	56.06 ↓
19	500	10.82	60.51	58.68 ↓	60.69	59.68