

Appendix A: Test Results of DTS Device

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Appendix A.1 Test Results of Radiated Spurious Emission

Note: All modes have been tested, and the report only reflects the worst mode.

Below 1G:									
Test Mode :	Mode 1				Test Voltage :	DC 14.4V			
Horizontal									
 <p>The graph shows the radiated spurious emission spectrum for the horizontal orientation. The y-axis represents the field strength in dBuV/m, ranging from 0.0 to 80.0. The x-axis represents frequency in MHz, ranging from 30.000 to 1000.000. A blue line shows the measured spectrum, with several peaks marked by vertical lines and numbers 1 through 6. A red line represents the limit, and a green line represents the margin. The spectrum shows a general upward trend with frequency, with a significant peak at 216 MHz.</p>									
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	39.1824	37.27	-13.06	24.21	40.00	-15.79			QP
2	67.7856	39.98	-13.81	26.17	40.00	-13.83			QP
3*	216.0000	54.68	-14.31	40.37	43.50	-3.13			QP
4	294.4260	50.07	-12.02	38.05	46.00	-7.95			QP
5	376.5227	48.51	-9.52	38.99	46.00	-7.01			QP
6	875.0131	32.86	-0.61	32.25	46.00	-13.75			QP
Vertical									
 <p>The graph shows the radiated spurious emission spectrum for the vertical orientation. The y-axis represents the field strength in dBuV/m, ranging from 0.0 to 80.0. The x-axis represents frequency in MHz, ranging from 30.000 to 1000.000. A blue line shows the measured spectrum, with several peaks marked by vertical lines and numbers 1* through 6. A red line represents the limit, and a green line represents the margin. The spectrum shows a general upward trend with frequency, with a significant peak at 45 MHz.</p>									
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	45.0951	44.89	-12.42	32.47	40.00	-7.53			QP
2	100.4711	42.40	-16.97	25.43	43.50	-18.07			QP
3	216.1194	47.76	-14.31	33.45	46.00	-12.55			QP
4	406.7820	41.71	-8.66	33.05	46.00	-12.95			QP
5	461.6313	41.79	-7.35	34.44	46.00	-11.56			QP
6	628.8935	37.07	-4.01	33.06	46.00	-12.94			QP

Correction Factor = antenna factor + cable loss – amplifier gain;
 Reading = Reading Amplitude in the instrument;
 Result = Correction Factor + Reading;
 Margin = Result – Limit

Above 1GHz:

Note: All modes and antenna have been tested, and the report only reflects the worst mode(SISO ANT1).

5MHz Bandwidth-Low Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2062.752	41.12	1.61	42.73	74	-31.27	peak
2	2062.752	31.77	1.61	33.38	54	-20.62	AVG
3	2771.669	40.09	3.85	43.94	74	-30.06	peak
4	2771.669	30.75	3.85	34.6	54	-19.4	AVG
5	5004.148	39	9.6	48.6	74	-25.4	peak
6	5004.148	25.96	9.6	35.56	54	-18.44	AVG
7	6646.506	37.49	12.83	50.32	74	-23.68	peak
8	6646.506	25.02	12.83	37.85	54	-16.15	AVG
9	8379.468	34.46	16.08	50.54	74	-23.46	peak
10	8379.468	23.72	16.08	39.8	54	-14.2	AVG
11	9408.664	33.09	18.33	51.42	74	-22.58	peak
12	9408.664	22.16	18.33	40.49	54	-13.51	AVG

5MHz Bandwidth-Low Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2074.735	41.35	1.7	43.05	74	-30.95	peak
2	2074.735	30.6	1.7	32.3	54	-21.7	AVG
3	2723.922	40.41	3.73	44.14	74	-29.86	peak
4	2723.922	30.23	3.73	33.96	54	-20.04	AVG
5	5004.148	39.23	9.6	48.83	74	-25.17	peak
6	5004.148	30.06	9.6	39.66	54	-14.34	AVG
7	6058.208	37.77	12	49.77	74	-24.23	peak
8	6058.208	26.71	12	38.71	54	-15.29	AVG
9	6961.743	37.91	13.54	51.45	74	-22.55	peak
10	6961.743	24.11	13.54	37.65	54	-16.35	AVG
11	8526.351	35.12	16.11	51.23	74	-22.77	peak
12	8526.351	24.42	16.11	40.53	54	-13.47	AVG

5MHz Bandwidth-Middle Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2027.217	42.35	1.27	43.62	74	-30.38	peak
2	2027.217	30.33	1.27	31.6	54	-22.4	AVG
3	4354.681	37.85	7.66	45.51	74	-28.49	peak
4	4354.681	28.41	7.66	36.07	54	-17.93	AVG
5	5004.148	39.37	9.6	48.97	74	-25.03	peak
6	5004.148	29.55	9.6	39.15	54	-14.85	AVG
7	6272.456	38.01	12.26	50.27	74	-23.73	peak
8	6272.456	24.66	12.26	36.92	54	-17.08	AVG
9	6961.743	36.86	13.54	50.4	74	-23.6	peak
10	6961.743	24.61	13.54	38.15	54	-15.85	AVG
11	10144.5	34.3	18.81	53.11	74	-20.89	peak
12	10144.5	21.53	18.81	40.34	54	-13.66	AVG



5MHz Bandwidth-Middle Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3811.519	38.16	6.52	44.68	74	-29.32	peak
2	3811.519	24.66	6.52	31.18	54	-22.82	AVG
3	5004.148	38.78	9.6	48.38	74	-25.62	peak
4	5004.148	27.07	9.6	36.67	54	-17.33	AVG
5	6023.218	37.99	11.71	49.7	74	-24.3	peak
6	6023.218	26.58	11.71	38.29	54	-15.71	AVG
7	6961.743	37.63	13.54	51.17	74	-22.83	peak
8	6961.743	26.4	13.54	39.94	54	-14.06	AVG
9	8526.351	34.7	16.11	50.81	74	-23.19	peak
10	8526.351	22.83	16.11	38.94	54	-15.06	AVG
11	10687.37	34.06	19.23	53.29	74	-20.71	peak
12	10687.37	24.53	19.23	43.76	54	-10.24	AVG

5MHz Bandwidth-High Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3702.714	37.51	6.49	44	74	-30	peak
2	3702.714	26.46	6.49	32.95	54	-21.05	AVG
3	4354.681	35.61	7.66	43.27	74	-30.73	peak
4	4354.681	22.33	7.66	29.99	54	-24.01	AVG
5	5004.148	38.23	9.6	47.83	74	-26.17	peak
6	5004.148	26.53	9.6	36.13	54	-17.87	AVG
7	6128.798	36.83	12.26	49.09	74	-24.91	peak
8	6128.798	27.69	12.26	39.95	54	-14.05	AVG
9	6961.743	36.62	13.54	50.16	74	-23.84	peak
10	6961.743	27.13	13.54	40.67	54	-13.33	AVG
11	7907.891	34.56	15.9	50.46	74	-23.54	peak
12	7907.891	20.93	15.9	36.83	54	-17.17	AVG

5MHz Bandwidth-High Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.166	41.65	2.98	44.63	74	-29.37	peak
2	2384.166	29.35	2.98	32.33	54	-21.67	AVG
3	5004.148	39.09	9.6	48.69	74	-25.31	peak
4	5004.148	27.48	9.6	37.08	54	-16.92	AVG
5	5651.416	36.19	10.86	47.05	74	-26.95	peak
6	5651.416	24.48	10.86	35.34	54	-18.66	AVG
7	6382.405	37.22	12.63	49.85	74	-24.15	peak
8	6382.405	27.87	12.63	40.5	54	-13.5	AVG
9	8000.034	32.74	16.74	49.48	74	-24.52	peak
10	8000.034	22.71	16.74	39.45	54	-14.55	AVG
11	9854.908	33.34	18.38	51.72	74	-22.28	peak
12	9854.908	22.46	18.38	40.84	54	-13.16	AVG



20MHz Bandwidth-Low Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3597.016	37.87	7.36	45.23	74	-28.77	peak
2	3597.016	24.57	7.36	31.93	54	-22.07	AVG
3	5004.148	38.57	9.6	48.17	74	-25.83	peak
4	5004.148	27.02	9.6	36.62	54	-17.38	AVG
5	6272.456	38.04	12.26	50.3	74	-23.7	peak
6	6272.456	24.24	12.26	36.5	54	-17.5	AVG
7	6646.506	37.72	12.83	50.55	74	-23.45	peak
8	6646.506	27.07	12.83	39.9	54	-14.1	AVG
9	6961.743	37.8	13.54	51.34	74	-22.66	peak
10	6961.743	24.03	13.54	37.57	54	-16.43	AVG
11	9685.139	33.79	17.93	51.72	74	-22.28	peak
12	9685.139	24.18	17.93	42.11	54	-11.89	AVG

20MHz Bandwidth-Low Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3855.931	37.32	6.45	43.77	74	-30.23	peak
2	3855.931	26.58	6.45	33.03	54	-20.97	AVG
3	4975.246	38.92	9.5	48.42	74	-25.58	peak
4	4975.246	26.72	9.5	36.22	54	-17.78	AVG
5	6058.208	37.71	12	49.71	74	-24.29	peak
6	6058.208	26.91	12	38.91	54	-15.09	AVG
7	6961.743	37.48	13.54	51.02	74	-22.98	peak
8	6961.743	24.95	13.54	38.49	54	-15.51	AVG
9	8526.351	34.8	16.11	50.91	74	-23.09	peak
10	8526.351	23.47	16.11	39.58	54	-14.42	AVG
11	10144.5	33.91	18.81	52.72	74	-21.28	peak
12	10144.5	23.5	18.81	42.31	54	-11.69	AVG

20MHz Bandwidth-Middle Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3494.334	38.27	5.93	44.2	74	-29.8	peak
2	3494.334	27.93	5.93	33.86	54	-20.14	AVG
3	4975.246	38.91	9.5	48.41	74	-25.59	peak
4	4975.246	25.88	9.5	35.38	54	-18.62	AVG
5	5988.431	38.17	11.53	49.7	74	-24.3	peak
6	5988.431	29.01	11.53	40.54	54	-13.46	AVG
7	7002.185	37.53	13.67	51.2	74	-22.8	peak
8	7002.185	25.94	13.67	39.61	54	-14.39	AVG
9	8000.034	33.72	16.74	50.46	74	-23.54	peak
10	8000.034	20.69	16.74	37.43	54	-16.57	AVG
11	9518.294	33.41	17.96	51.37	74	-22.63	peak
12	9518.294	19.72	17.96	37.68	54	-16.32	AVG



20MHz Bandwidth-Middle Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5004.148	39.78	9.6	49.38	74	-24.62	peak
2	5004.148	28.1	9.6	37.7	54	-16.3	AVG
3	6164.401	37.9	12.19	50.09	74	-23.91	peak
4	6164.401	26.21	12.19	38.4	54	-15.6	AVG
5	6961.743	37.65	13.54	51.19	74	-22.81	peak
6	6961.743	24.3	13.54	37.84	54	-16.16	AVG
7	8879.167	34.69	16.98	51.67	74	-22.33	peak
8	8879.167	24.39	16.98	41.37	54	-12.63	AVG
9	9969.738	34.69	18.83	53.52	74	-20.48	peak
10	9969.738	24.55	18.83	43.38	54	-10.62	AVG
11	16502.09	35.52	23.73	59.25	74	-14.75	peak
12	16502.09	21.64	23.73	45.37	54	-8.63	AVG

20MHz Bandwidth-High Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2398.016	41.32	3.06	44.38	74	-29.62	peak
2	2398.016	29.51	3.06	32.57	54	-21.43	AVG
3	5004.148	39.11	9.6	48.71	74	-25.29	peak
4	5004.148	27.2	9.6	36.8	54	-17.2	AVG
5	5490.089	37.29	10.58	47.87	74	-26.13	peak
6	5490.089	27.7	10.58	38.28	54	-15.72	AVG
7	6236.229	39.02	12.19	51.21	74	-22.79	peak
8	6236.229	27.81	12.19	40	54	-14	AVG
9	8000.034	33.51	16.74	50.25	74	-23.75	peak
10	8000.034	19.93	16.74	36.67	54	-17.33	AVG
11	9969.738	32.98	18.83	51.81	74	-22.19	peak
12	9969.738	20.64	18.83	39.47	54	-14.53	AVG

20MHz Bandwidth-High Vertical

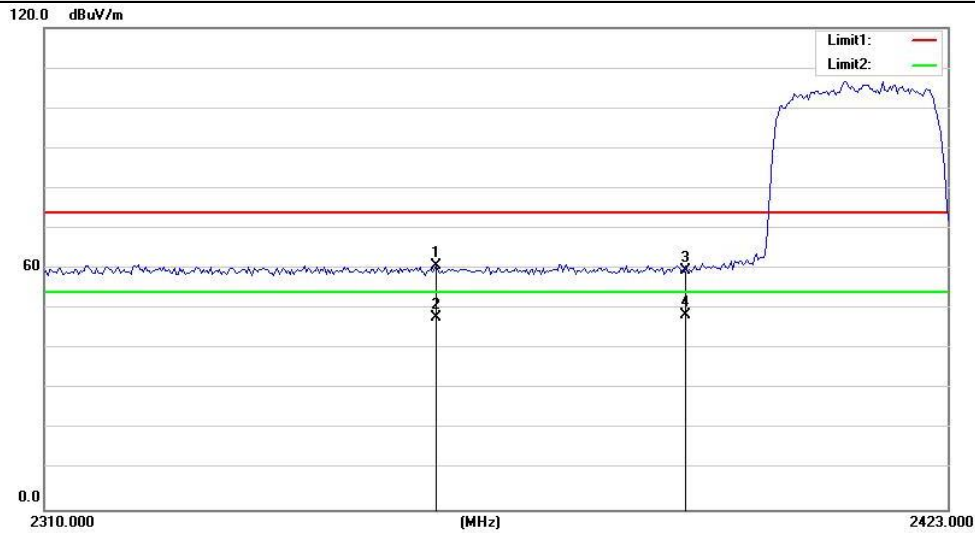
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4508.684	37.08	7.63	44.71	74	-29.29	peak
2	4508.684	24.05	7.63	31.68	54	-22.32	AVG
3	4946.511	37.98	9.39	47.37	74	-26.63	peak
4	4946.511	24.89	9.39	34.28	54	-19.72	AVG
5	5953.844	37.47	11.64	49.11	74	-24.89	peak
6	5953.844	26.84	11.64	38.48	54	-15.52	AVG
7	7002.185	37.25	13.67	50.92	74	-23.08	peak
8	7002.185	23.5	13.67	37.17	54	-16.83	AVG
9	8879.167	34.38	16.98	51.36	74	-22.64	peak
10	8879.167	21.79	16.98	38.77	54	-15.23	AVG
11	9518.294	34.15	17.96	52.11	74	-21.89	peak
12	9518.294	21.2	17.96	39.16	54	-14.84	AVG

Node:

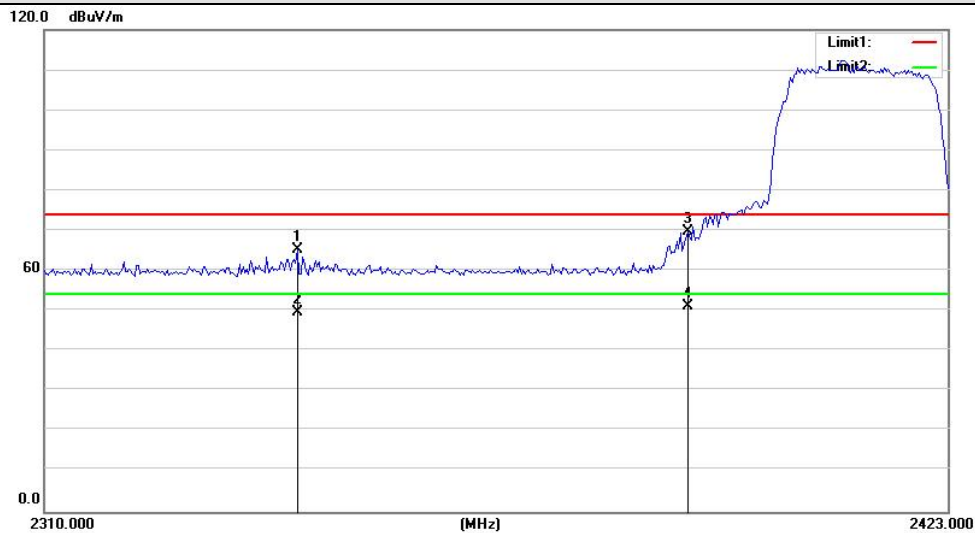
- 1、 Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported..
- 2、 Radiated emissions measured in frequency above 1GHz were made with an instrument using peak/average detector mode.
- 3、 Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4、 Margin (dB), result in dBuV/m – limit in dBuV/m.

Restricted band Requirements

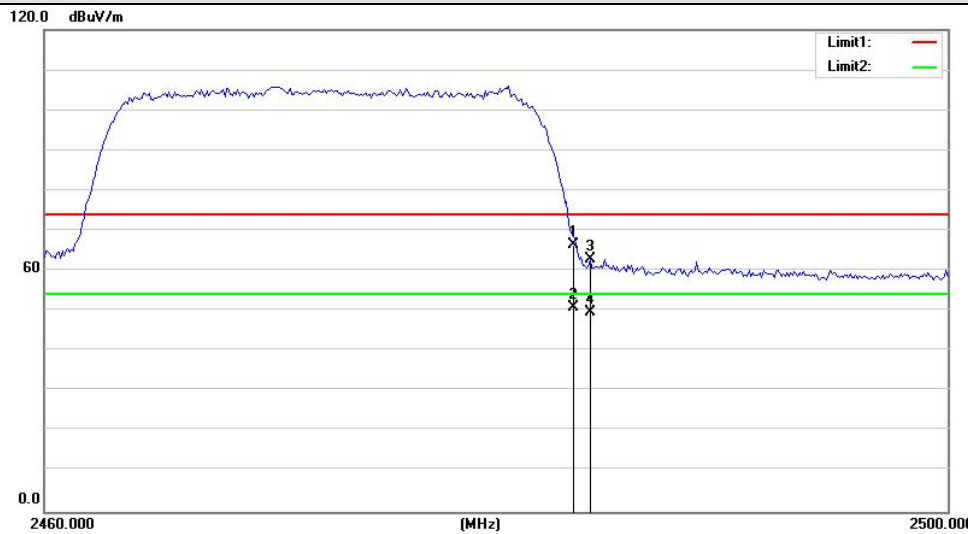
Note: All modes and antenna have been tested, and the report only reflects the worst mode(SISO ANT1).

20MHz Bandwidth-Low (worst mode)
Horizontal


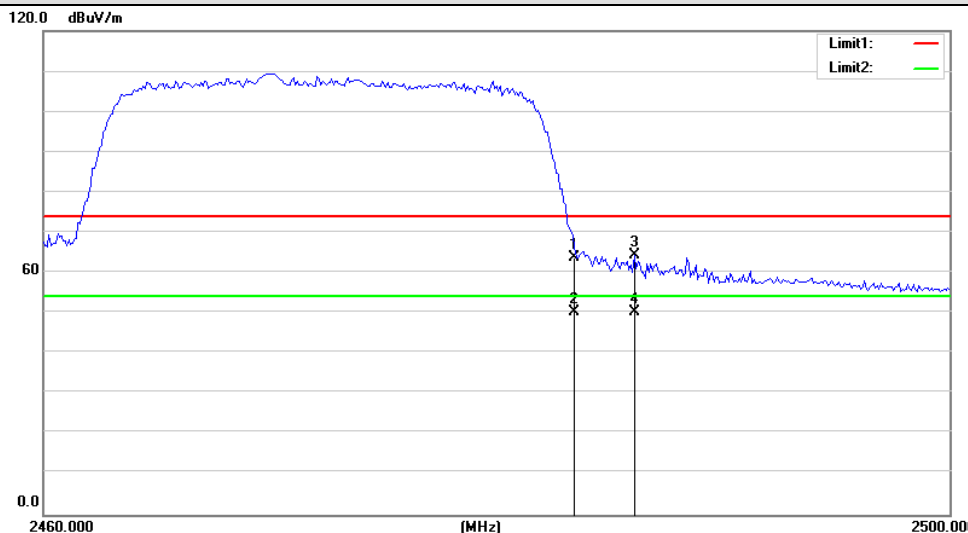
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2358.59	81.69	-20.93	60.76	74	-13.24	peak
2	2358.59	68.79	-20.93	47.86	54	-6.14	AVG
3	2390	80.41	-20.89	59.52	74	-14.48	peak
4	2390	69.21	-20.89	48.32	54	-5.68	AVG

Vertical


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2341.188	86.09	-20.93	65.16	74	-8.84	peak
2	2341.188	70.73	-20.93	49.8	54	-4.2	AVG
3	2390	90.66	-20.89	69.77	74	-4.23	peak
4	2390	72.1	-20.89	51.21	54	-2.79	AVG

20MHz Bandwidth-High (worst mode)
Horizontal


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.5	87.19	-20.65	66.54	74	-7.46	peak
2	2483.5	71.48	-20.65	50.83	54	-3.17	AVG
3	2484.16	83.57	-20.65	62.92	74	-11.08	peak
4	2484.16	70.21	-20.65	49.56	54	-4.44	AVG

Vertical


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.5	83.38	-20.65	63.73	74	-10.27	peak
2	2483.5	71.04	-20.65	50.39	54	-3.61	AVG
3	2486.08	85.12	-20.64	64.48	74	-9.52	peak
4	2486.08	70.89	-20.64	50.25	54	-3.75	AVG

Correction Factor = antenna factor + cable loss – amplifier gain;

Reading = Reading Amplitude in the instrument;

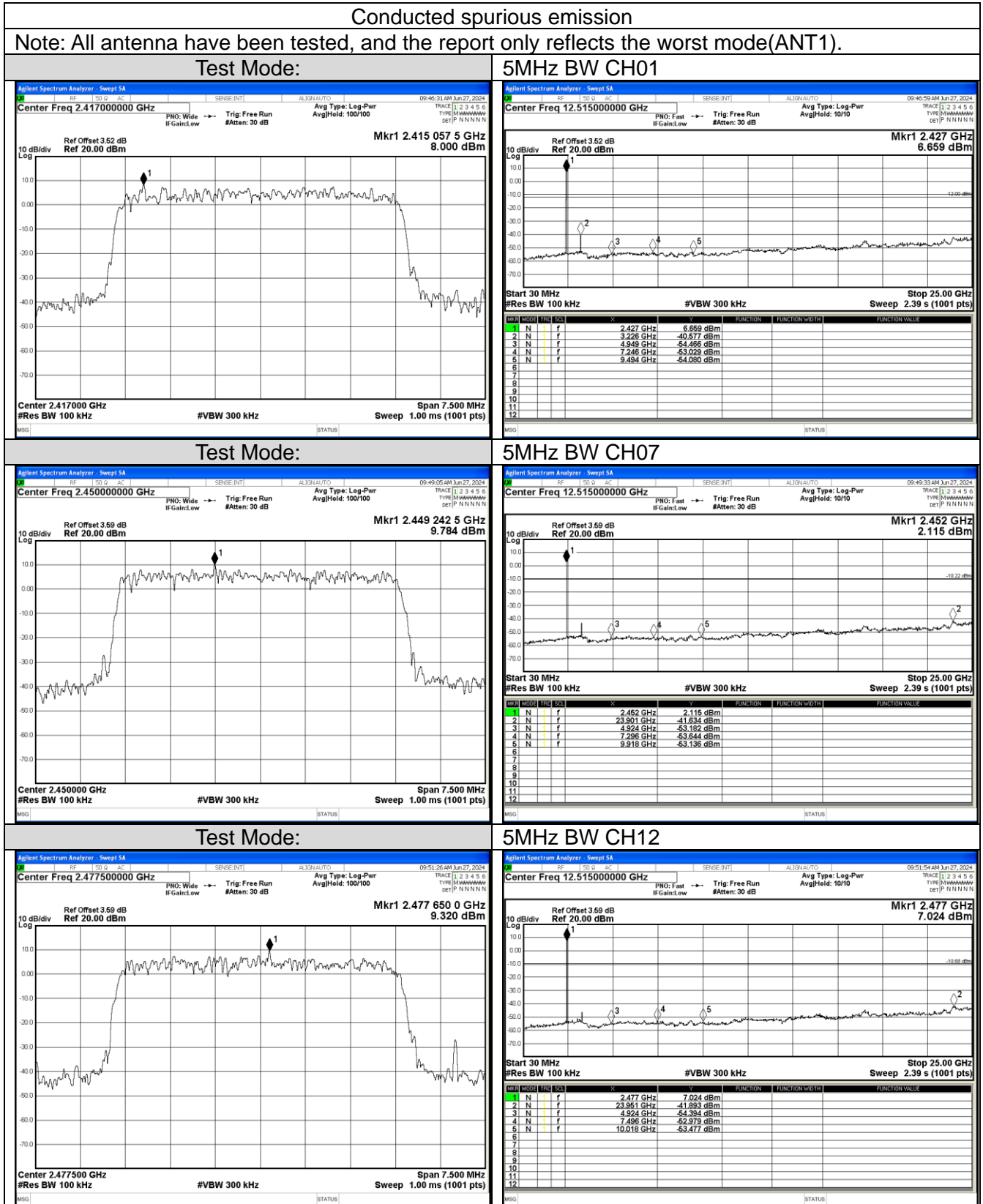
Result = Correction Factor + Reading;

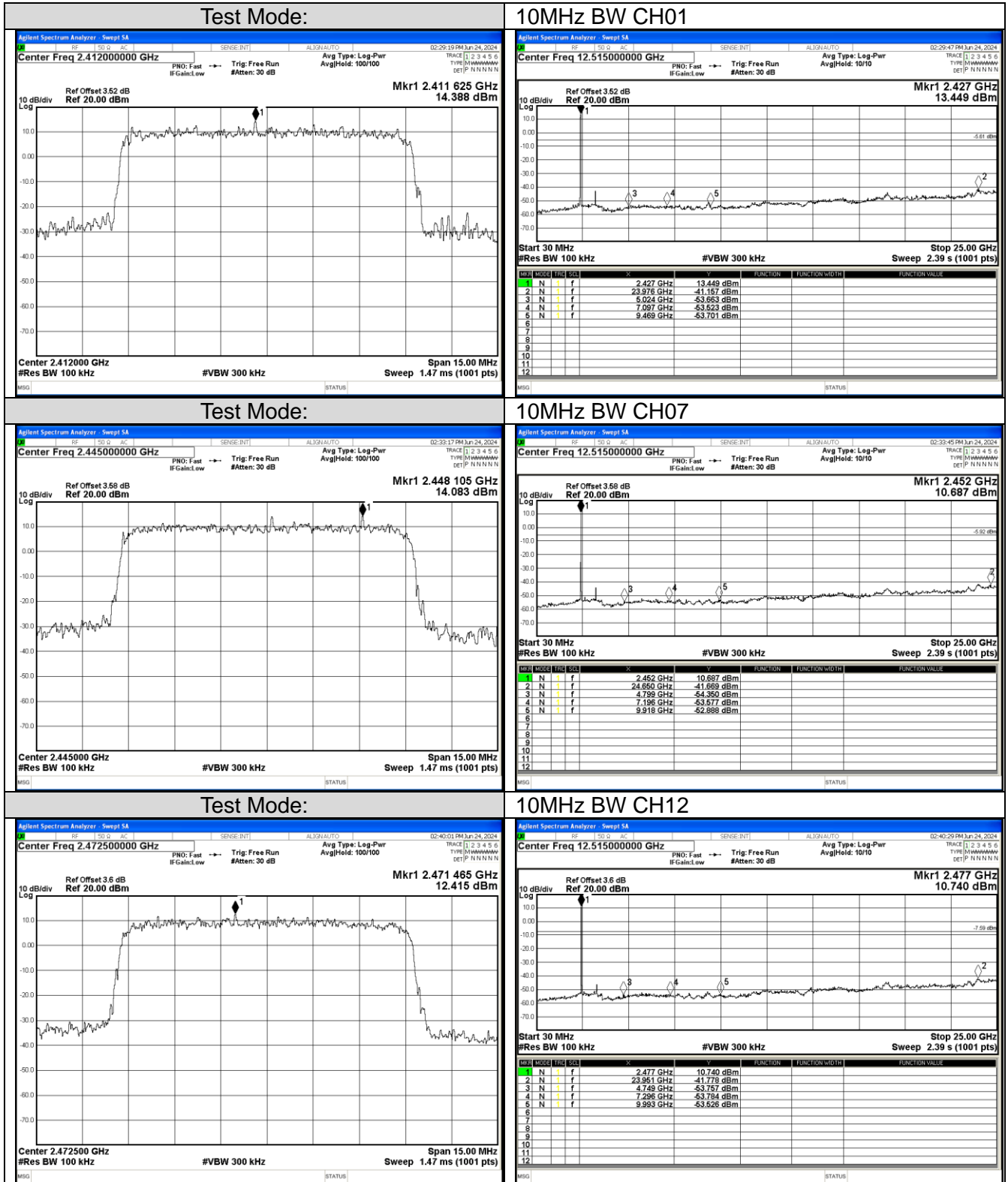
Margin = Result – Limit

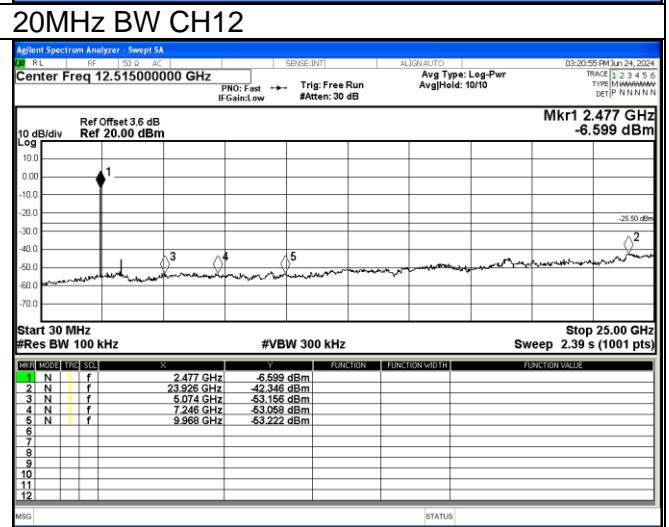
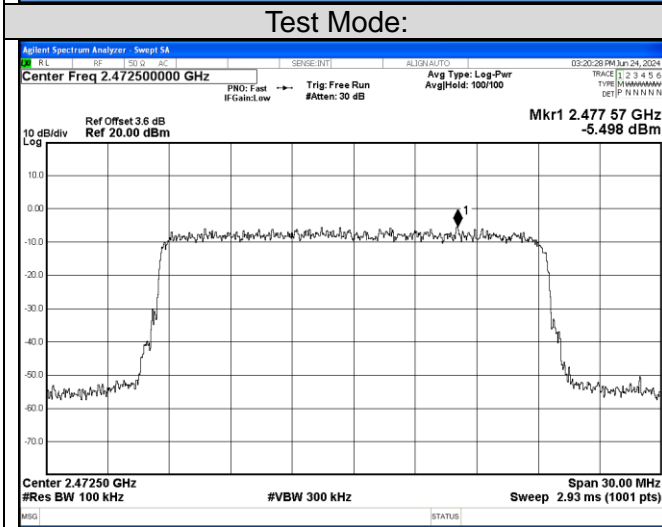
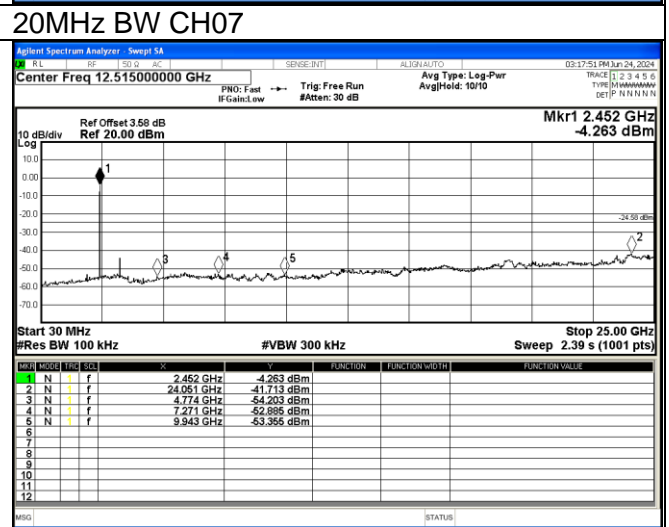
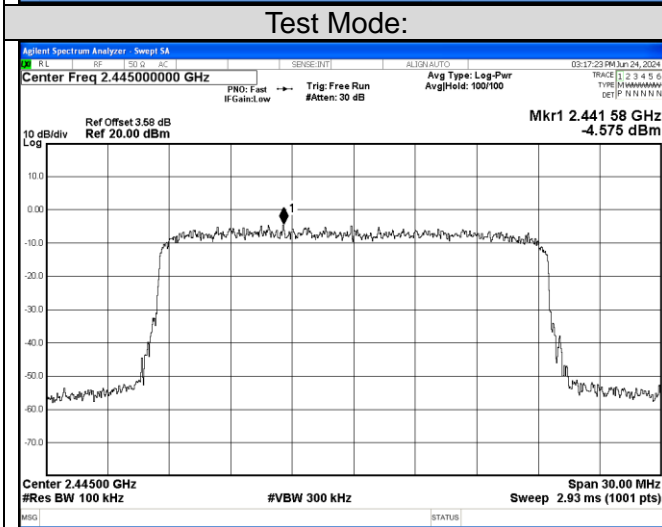
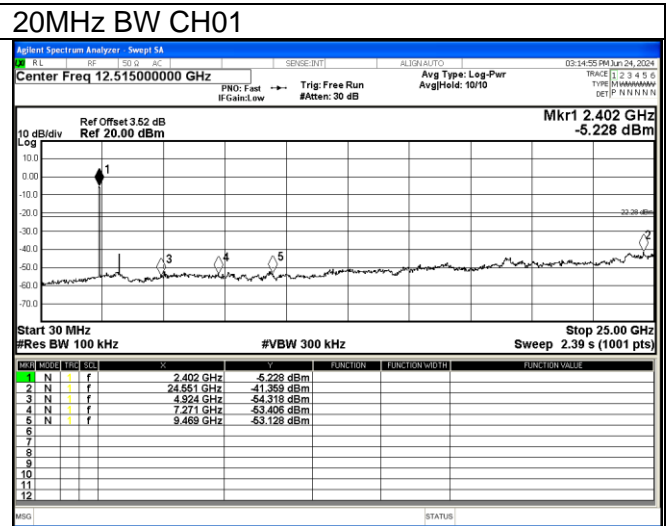
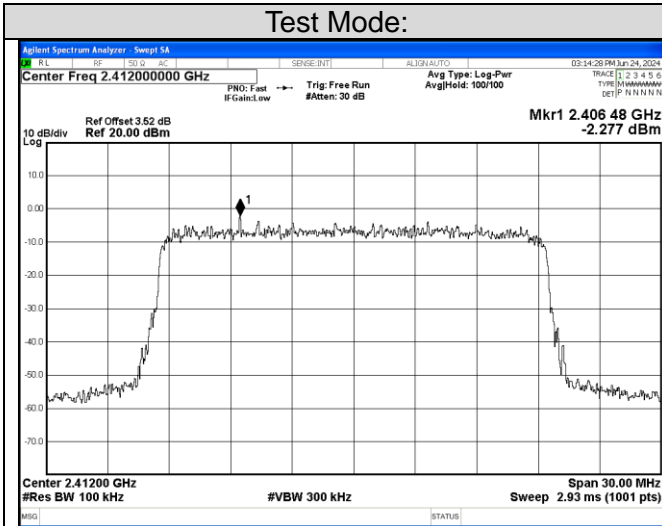
Appendix A.2 Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted spurious emission

Note: All antenna have been tested, and the report only reflects the worst mode(ANT1).







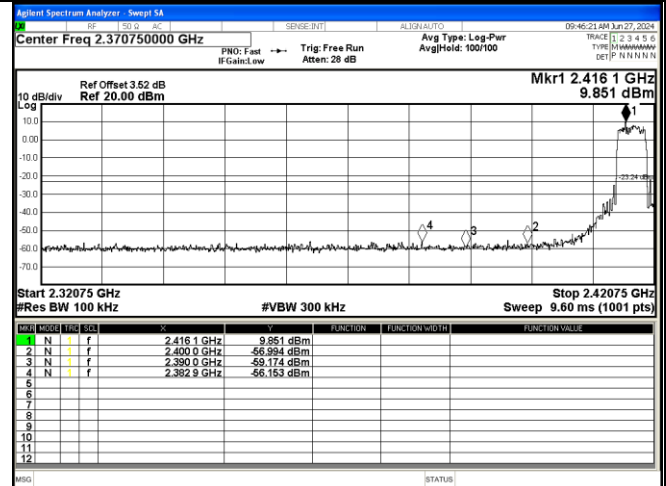
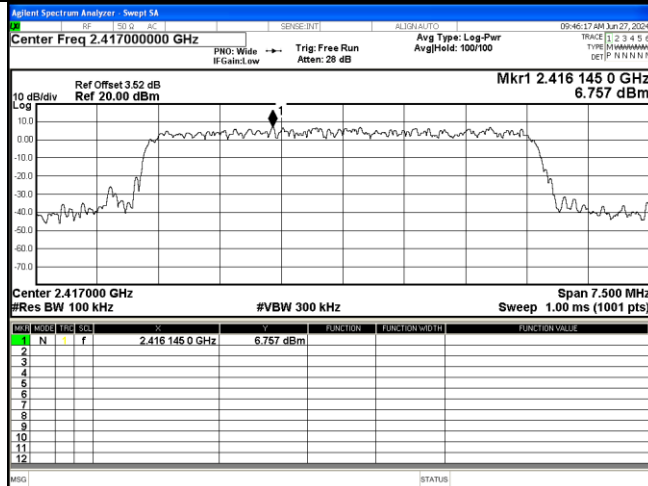


For Band edge (it's also the reference level for conducted spurious emission)

Note: All antenna have been tested, and the report only reflects the worst mode(ANT1).

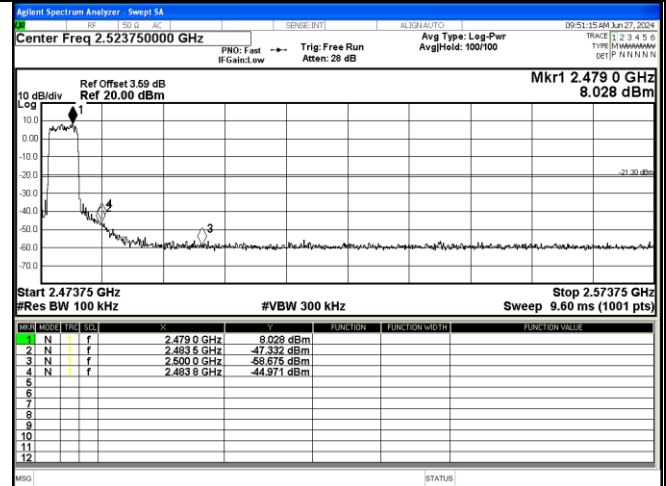
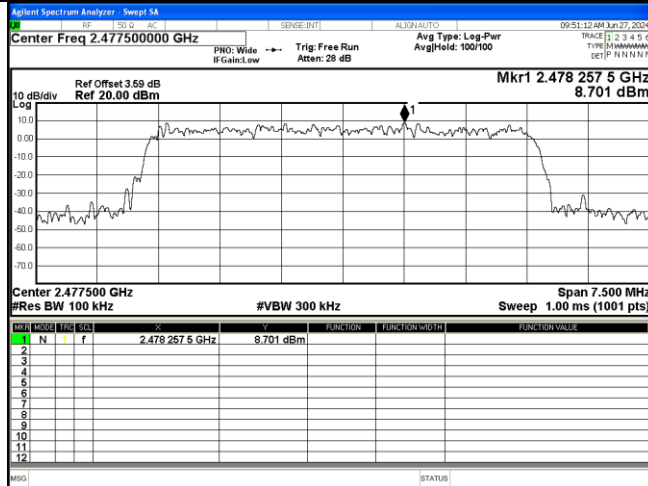
Test Mode:

5MHz BW CH01



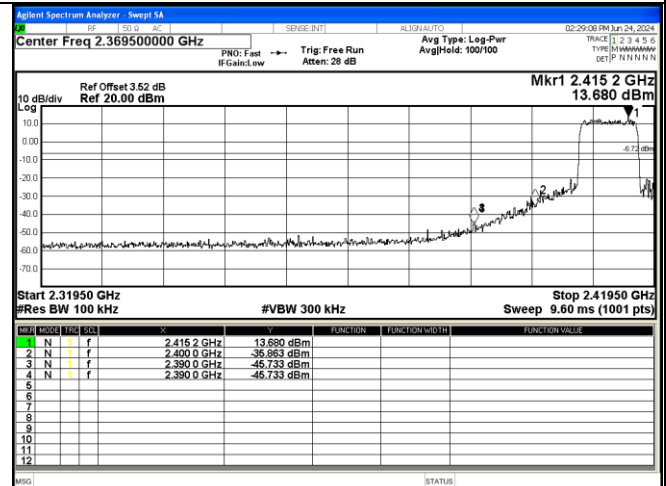
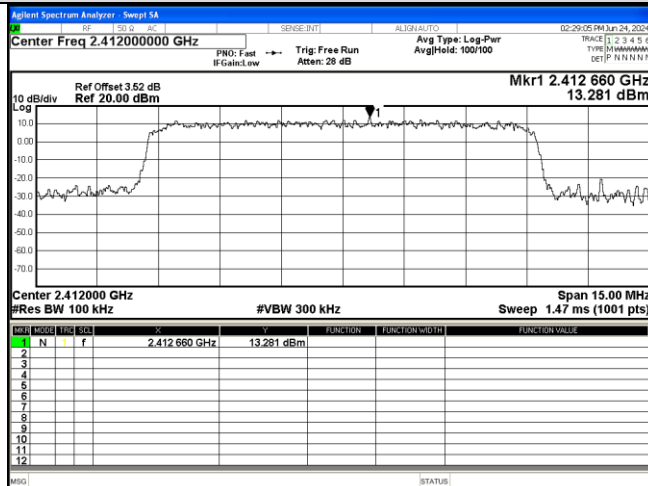
Test Mode:

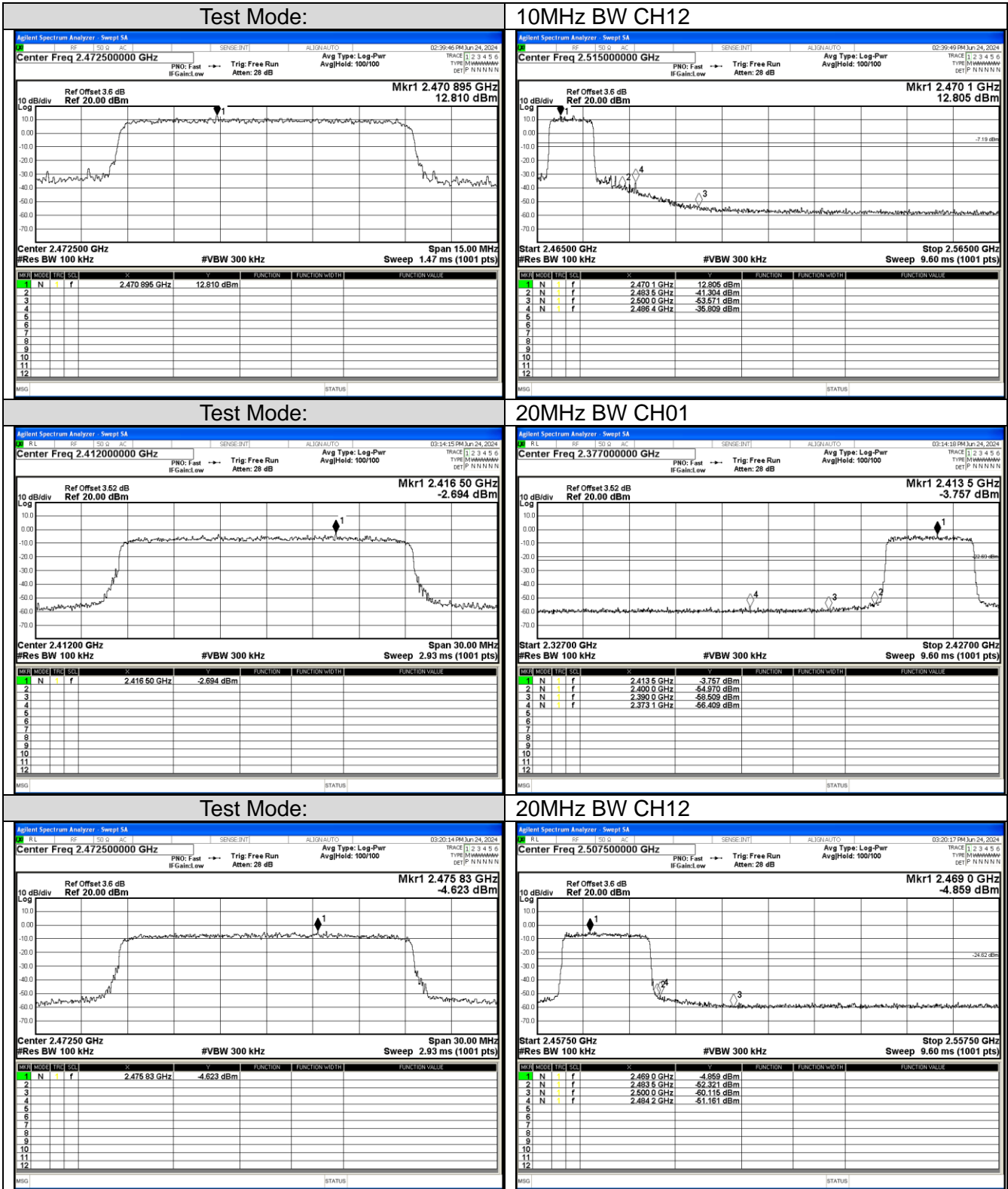
5MHz BW CH12



Test Mode:

10MHz BW CH01





Appendix A.3 Test Results of Conducted Power Spectral Density

5MHz Bandwidth				
Channel	Ant1	Ant2	Limit [dBm/3kHz]	Result
	PSD [dBm/3kHz]	PSD [dBm/3kHz]		
CH01	-7.394	/	8	Pass
CH07	-4.736	/	8	Pass
CH12	-4.925	/	8	Pass

Note:

1) Antenna gain(G): Antenna 1: 1.42dBi(ant1).

10MHz Bandwidth				
Channel	Ant1	Ant2	Limit [dBm/3kHz]	Result
	PSD [dBm/3kHz]	PSD [dBm/3kHz]		
CH01	-3.093	-4.223	8	Pass
CH07	-4.15	-5.022	8	Pass
CH12	-4.554	-5.368	8	Pass

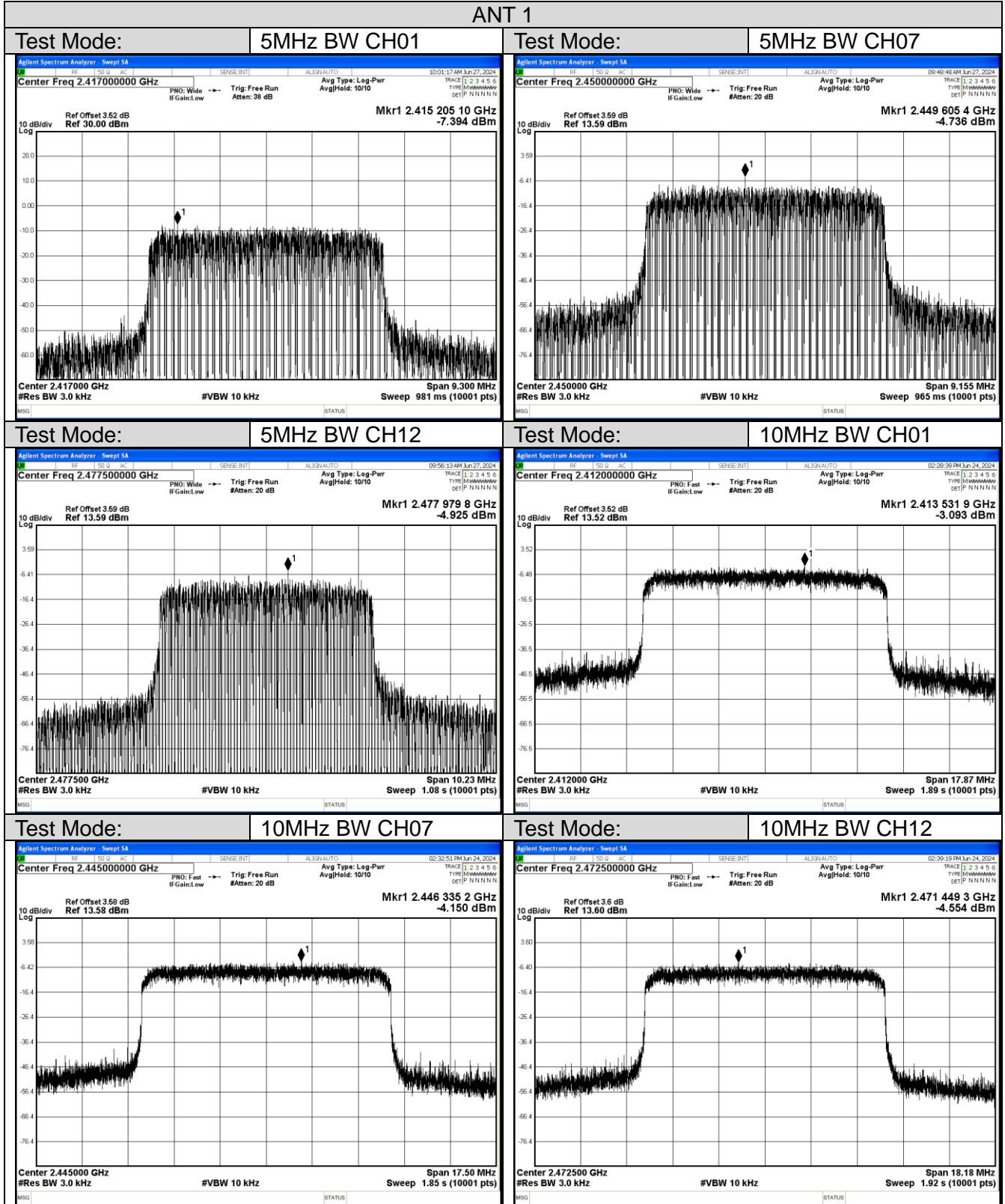
Note:

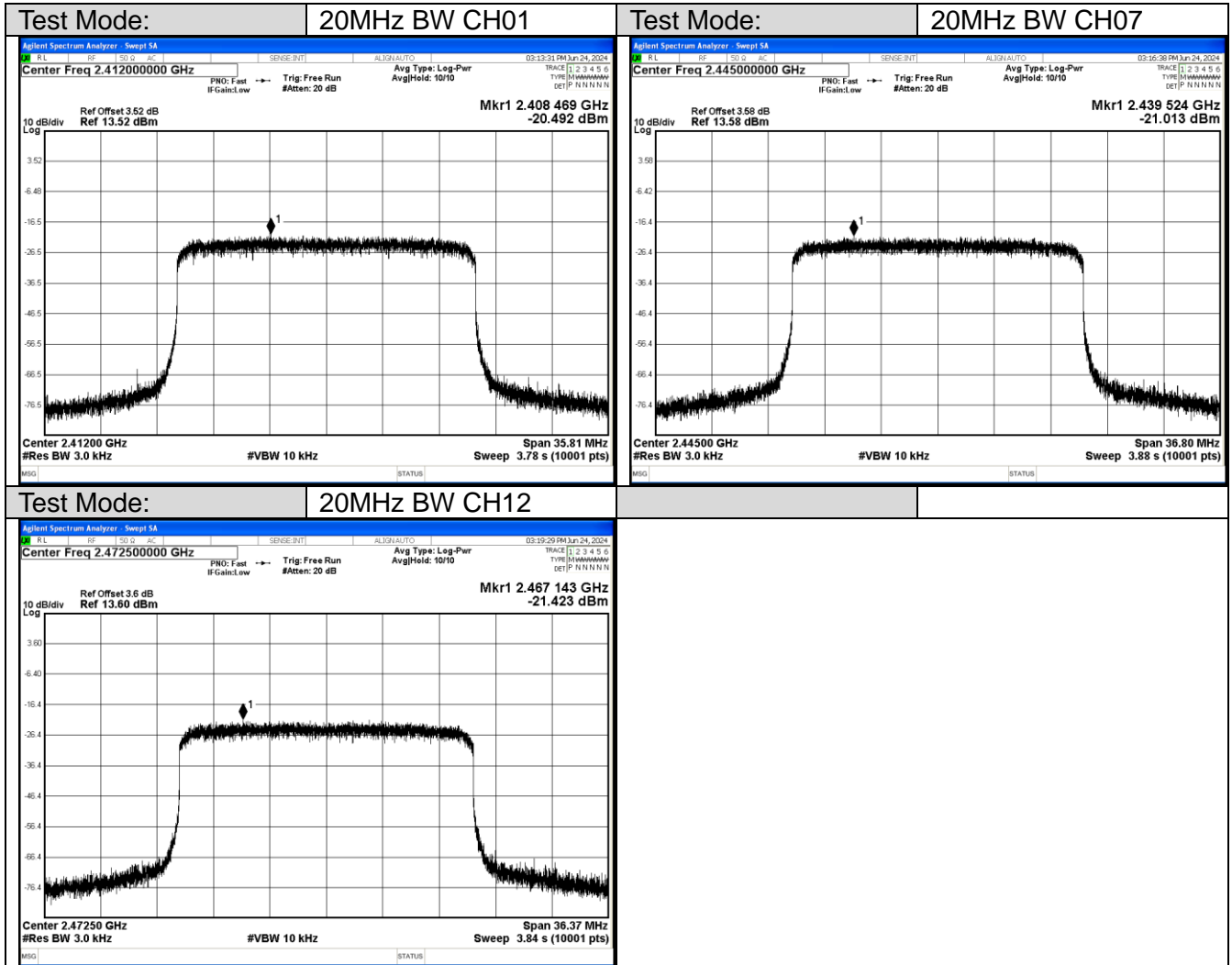
1) Antenna gain(G): Antenna 1&2: 1.42dBi(ant1), 0.7dBi(ant2).

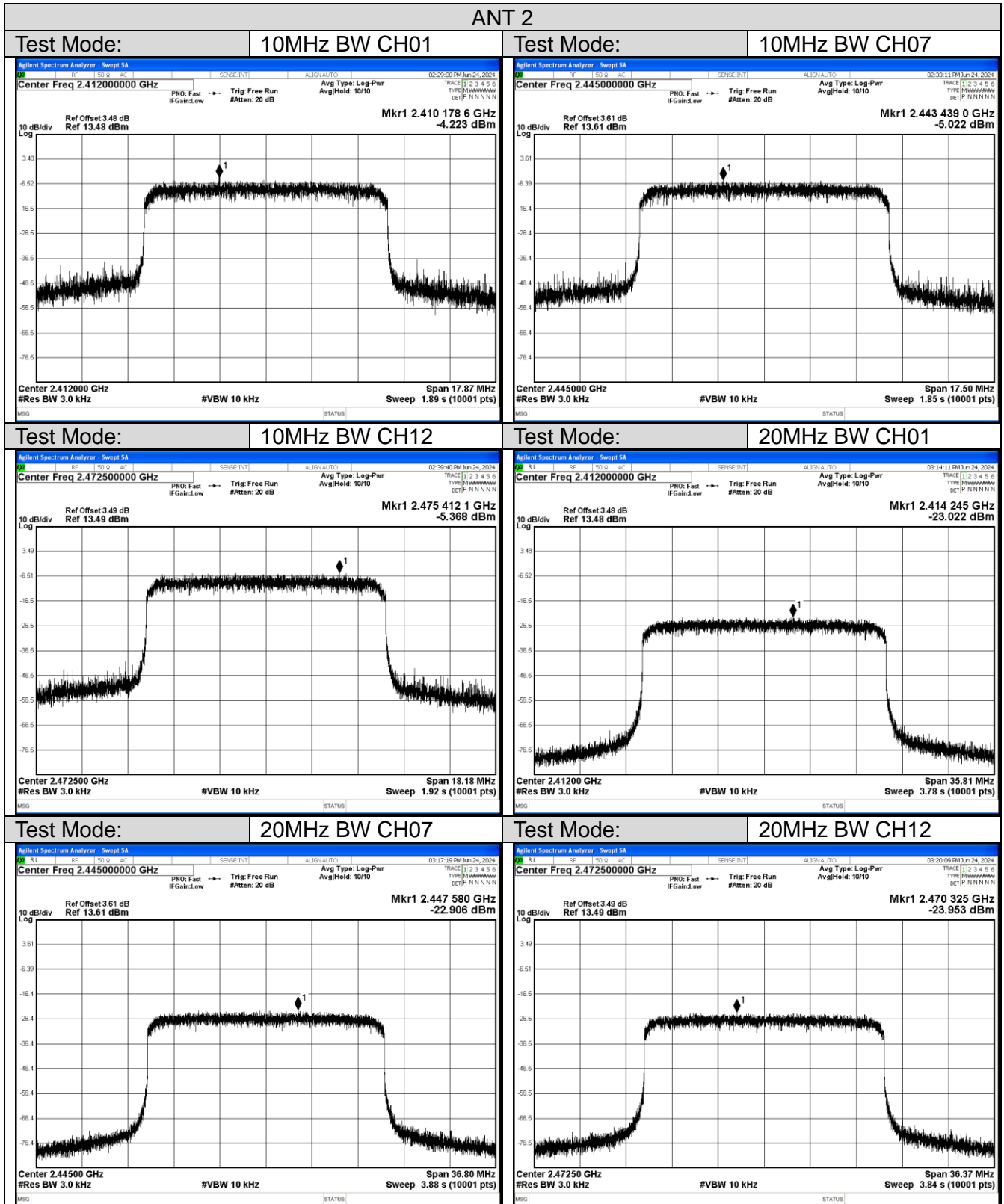
20MHz Bandwidth				
Channel	Ant1	Ant2	Limit [dBm/3kHz]	Result
	PSD [dBm/3kHz]	PSD [dBm/3kHz]		
CH01	-20.492	-23.022	8	Pass
CH07	-21.013	-22.906	8	Pass
CH12	-21.423	-23.953	8	Pass

Note:

1) Antenna gain(G): Antenna 1&2: 1.42dBi(ant1), 0.7dBi(ant2).

ANT 1




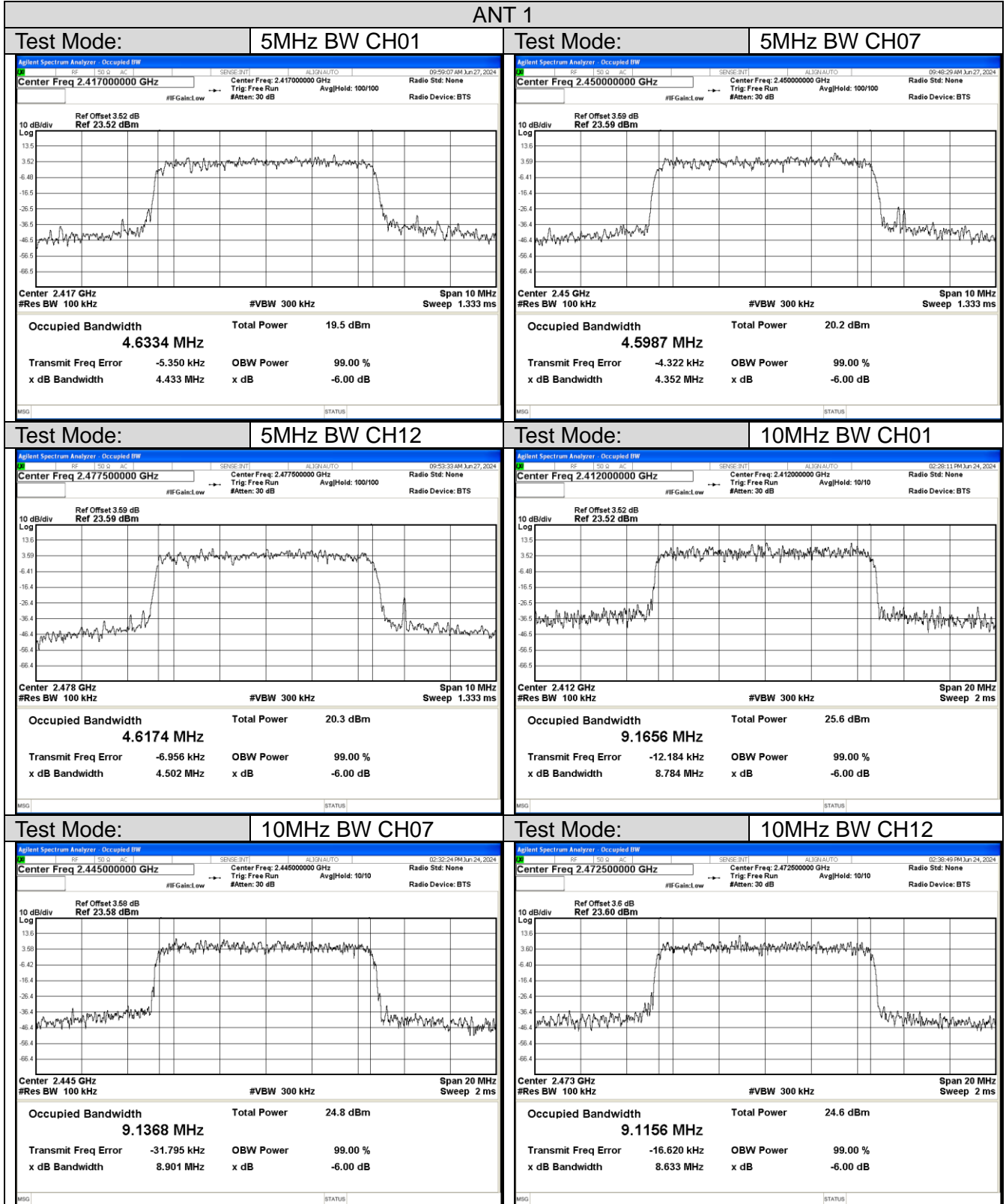


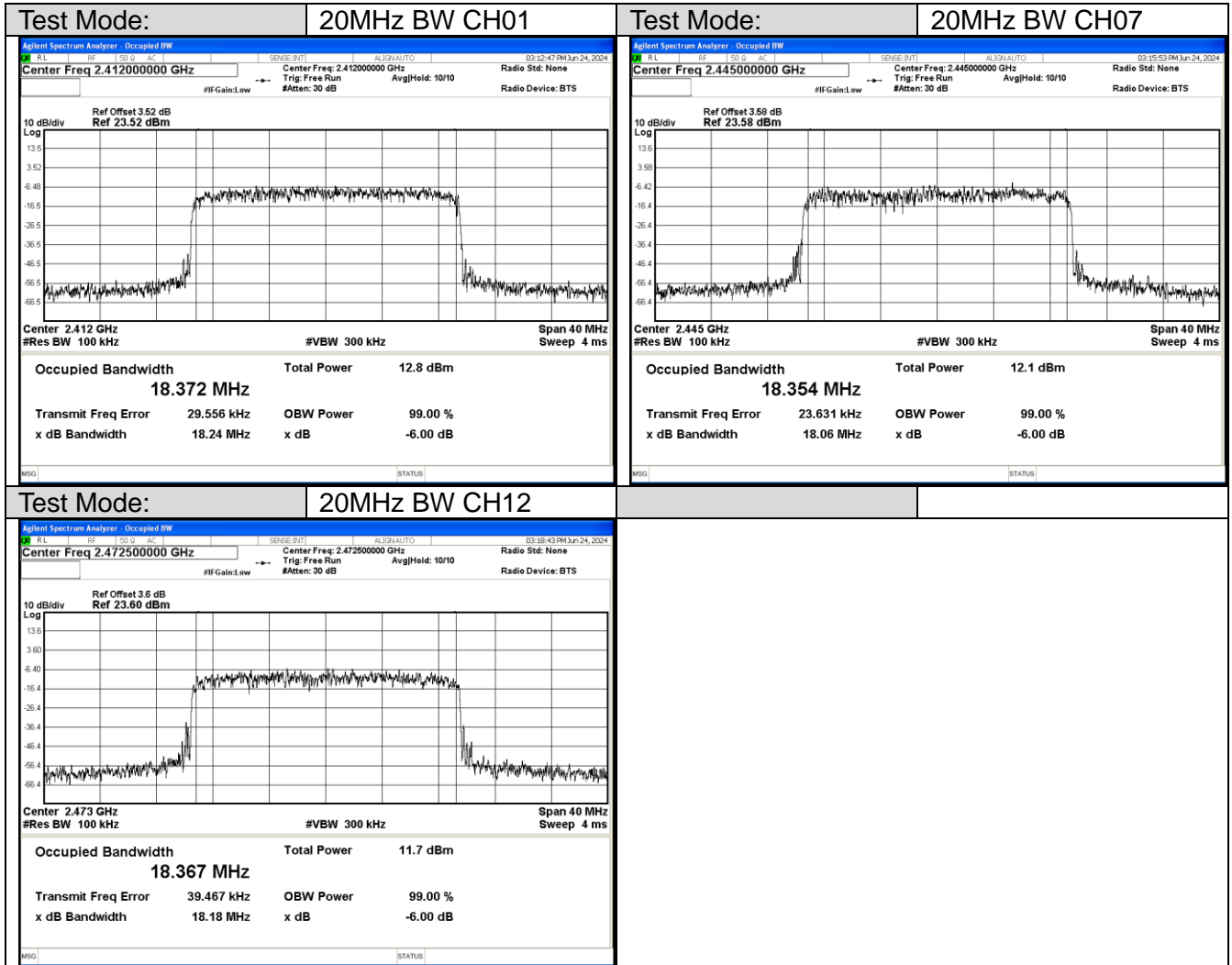
Appendix A.4 Test Results of 6dB BANDWIDTH

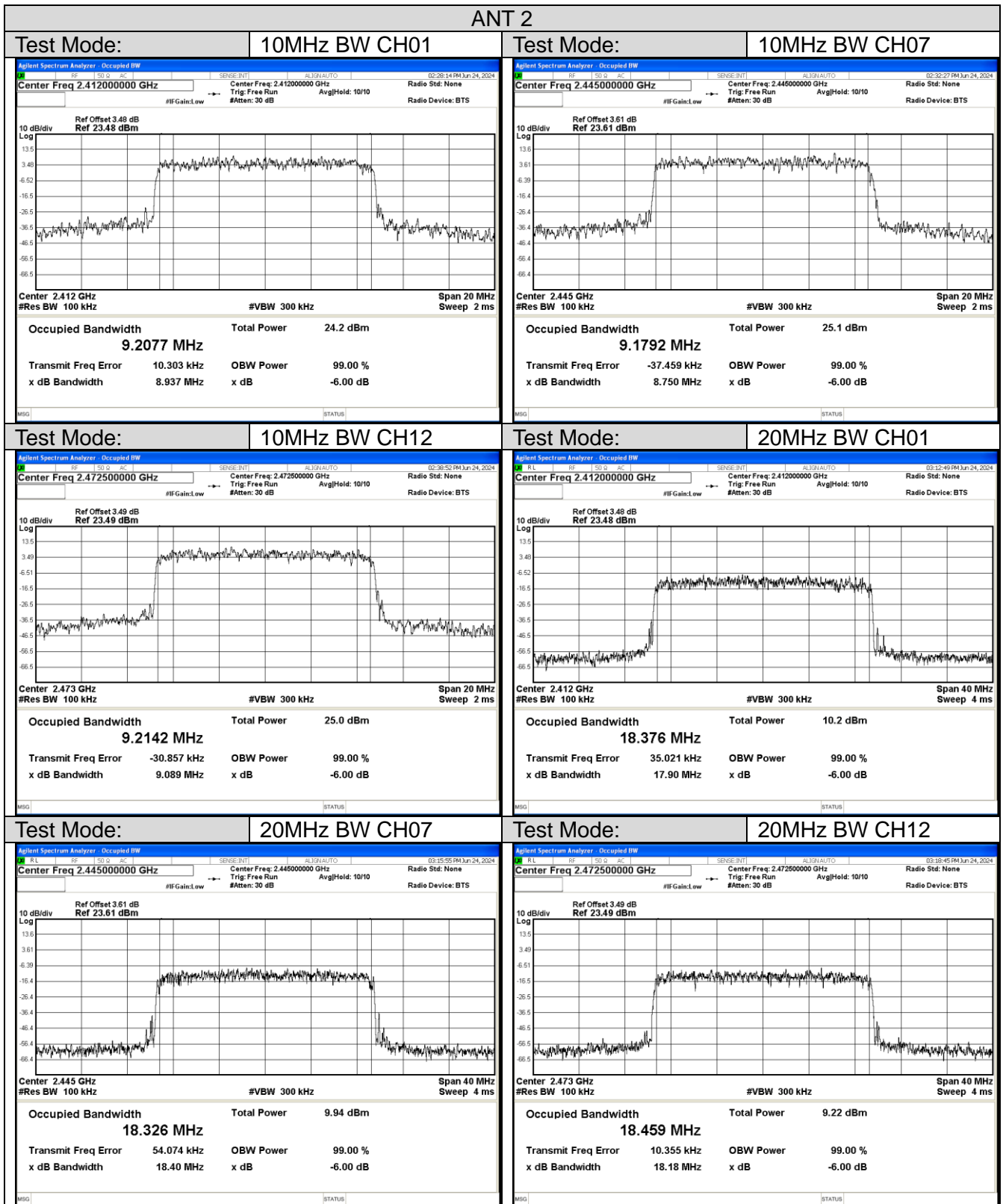
5MHz Bandwidth				
Frequency	6dB Bandwidth (MHz)		6dB limit (MHz)	Result
	ANT 1	ANT 2		
CH01	4.4332	/	0.5	Pass
CH07	4.3518	/	0.5	Pass
CH12	4.5018	/	0.5	Pass

10MHz Bandwidth				
Frequency	6dB Bandwidth (MHz)		6dB limit (MHz)	Result
	ANT 1	ANT 2		
CH01	8.7843	8.9373	0.5	Pass
CH07	8.9015	8.7498	0.5	Pass
CH12	8.6328	9.0889	0.5	Pass

20MHz Bandwidth				
Frequency	6dB Bandwidth (MHz)		6dB limit (MHz)	Result
	ANT 1	ANT 2		
CH01	18.24	17.9049	0.5	Pass
CH07	18.061	18.4018	0.5	Pass
CH12	18.1761	18.1845	0.5	Pass

ANT 1




ANT 2


Appendix A.5 Test Results of Maximum Conducted Output Power

5MHz Bandwidth							
Channel	Frequency	Conducted Peak Power (dBm)		Conducted Peak Power (W)		Limit	Result
	(MHz)	Ant1	Ant2	Ant1	Ant2	W	
CH01	2417	26.16	/	0.4130	/	1	Pass
CH07	2450	25.58	/	0.3614	/	1	Pass
CH12	2477.5	25.36	/	0.3436	/	1	Pass

10MHz Bandwidth							
Channel	Frequency	Conducted Peak Power (dBm)		Conducted Peak Power (W)		Limit	Result
	(MHz)	Ant1	Ant2	Ant1	Ant2	W	
CH01	2412	20.96	20.35	0.1247	0.1084	1	Pass
CH07	2445	19.8	20.02	0.0955	0.1005	1	Pass
CH12	2472.5	19.69	18.78	0.0931	0.0755	1	Pass

20MHz Bandwidth							
Channel	Frequency	Conducted Peak Power (dBm)		Conducted Peak Power (W)		Limit	Result
	(MHz)	Ant1	Ant2	Ant1	Ant2	W	
CH01	2412	18.53	16.70	0.0713	0.0468	1	Pass
CH07	2445	18.03	16.03	0.0635	0.0401	1	Pass
CH12	2472.5	17.57	15.79	0.0571	0.0379	1	Pass

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G) of Antenna 1&2: 1.42dBi(ant1), 0.7dBi(ant2)
- 3) e.i.r.p.=P(Peak power)+ G, which is far below the 4 W.
- 4) Not Support MIMO Function.

Appendix A.6 Test Results of Duty Cycle

5MHz Bandwidth		
Frequency	Duty Cycle (%)	Correction Factor (dB)
CH01	13.58	8.67
CH07	13.61	8.66
CH12	12.36	9.08

10MHz Bandwidth		
Frequency	Duty Cycle (%)	Correction Factor (dB)
CH01	82.67	0.83
CH07	82.71	0.82
CH12	82.74	0.82

20MHz Bandwidth		
Frequency	Duty Cycle (%)	Correction Factor (dB)
CH01	81.25	0.9
CH07	77.68	1.1
CH12	76.73	1.15

Note: Correction Factor = $10 \cdot \log(1 / D)$, where D is the duty cycle.

