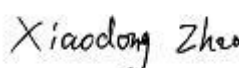


APPENDIX REPORT

Project No.	SHT2304006601EW	Radio Specification	2.4G SDR
Test sample No.	YPHT23040066001	Model No.	CVX-EC2-BU
Start test date	2023.08.02	Finish date	2023.08.23
Temperature	23.8℃	Humidity	48%
Test Engineer		Auditor	

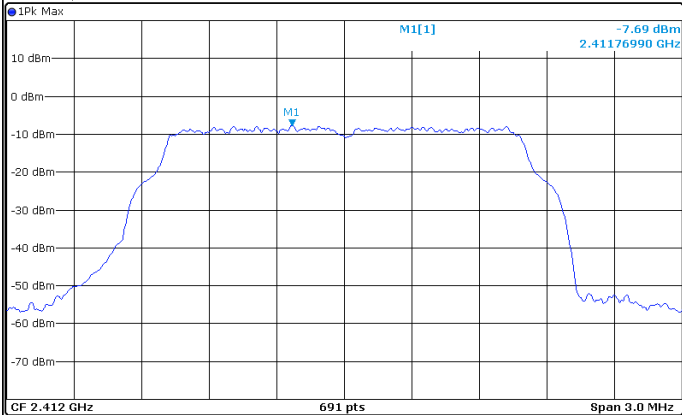
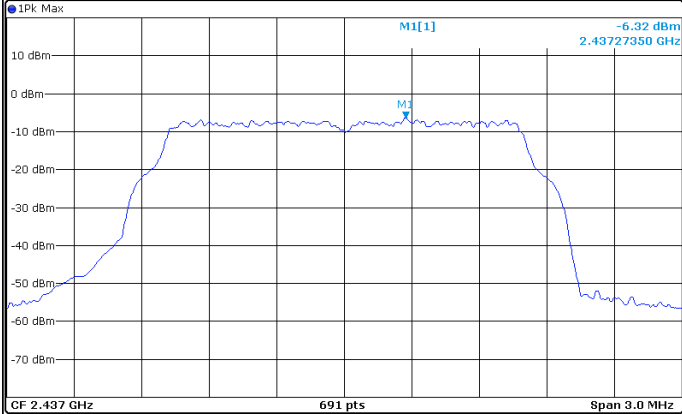
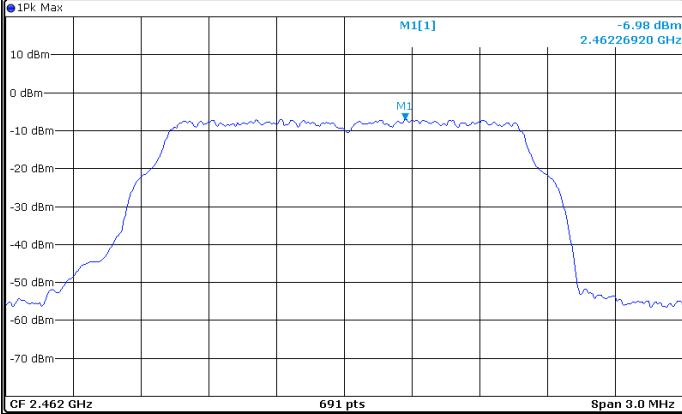
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Conducted Peak Output Power

Antenna Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
LG	CH _L	8.97	8.96	≤ 30.00	Pass
	CH _M	10.39	10.37		
	CH _H	9.66	9.65		
HG	CH _L	10.28	10.27	≤ 29.83	Pass
	CH _M	11.00	10.98		
	CH _H	9.32	9.29		

Appendix B: Power Spectral Density

Antenna Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
LG	CH _L	-7.69	≤8.00	Pass
	CH _M	-6.32		
	CH _H	-6.98		
HG	CH _L	-6.36	≤7.50	Pass
	CH _M	-6.32		
	CH _H	-6.95		

Antenna Type:		LG
CH _L	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk Max  CF 2.412 GHz 691 pts Span 3.0 MHz Date: 9 AUG 2023 16:49:02	
CH _M	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk Max  CF 2.437 GHz 691 pts Span 3.0 MHz Date: 9 AUG 2023 16:50:55	
CH _H	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk Max  CF 2.462 GHz 691 pts Span 3.0 MHz Date: 9 AUG 2023 16:52:32	

Antenna Type:		HG
CH _L	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] -6.36 dBm 2.41223440 GHz M1 CF 2.412 GHz 691 pts Span 3.0 MHz Date: 9 AUG 2023 16:41:29	
CH _M	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] -6.32 dBm 2.43772070 GHz M1 CF 2.437 GHz 691 pts Span 3.0 MHz Date: 9 AUG 2023 16:43:14	
CH _H	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 63.2 μs VBW 100 kHz Mode Auto FFT Count 100/100 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] -6.95 dBm 2.46224750 GHz M1 CF 2.462 GHz 691 pts Span 3.0 MHz Date: 9 AUG 2023 16:44:39	

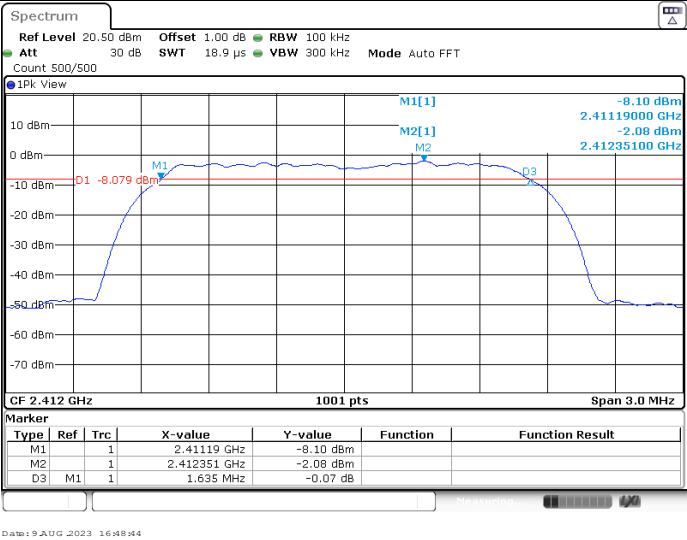
Appendix C: 6dB bandwidth

Antenna Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
LG	CH _L	1.64	≥0.5	Pass
	CH _M	1.64		
	CH _H	1.65		
HG	CH _L	1.61	≥0.5	Pass
	CH _M	1.64		
	CH _H	1.66		

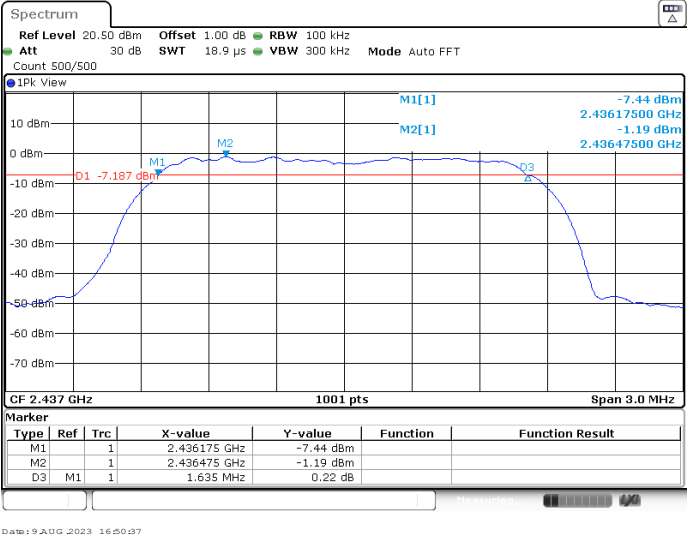
Antenna Type:

LG

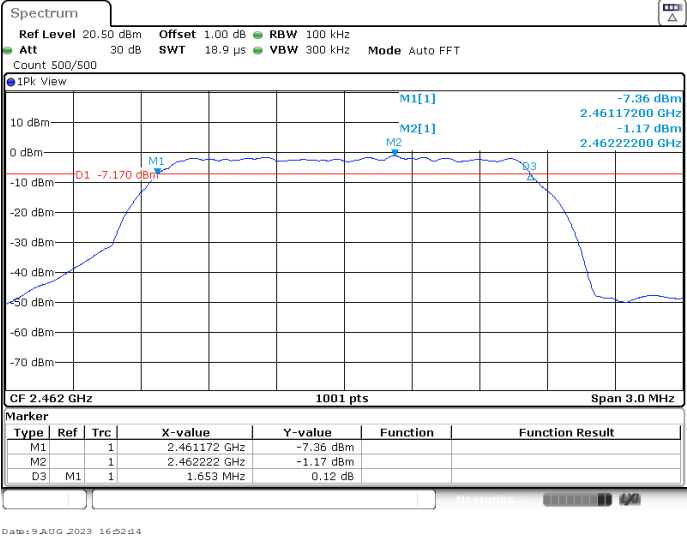
CH_L



CH_M



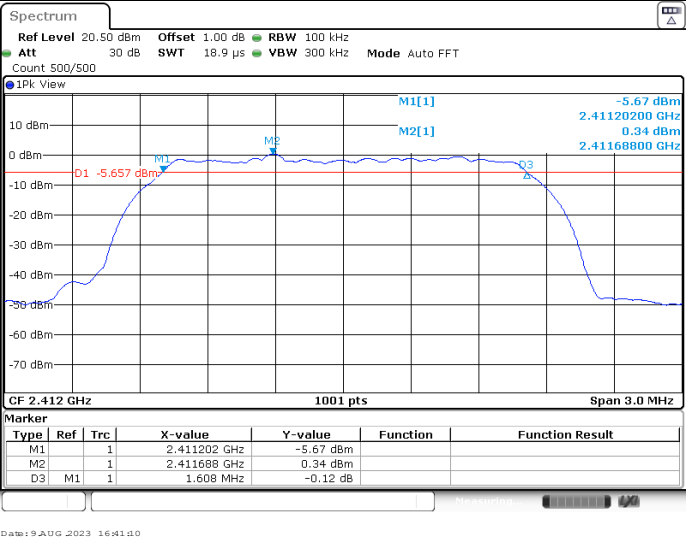
CH_H



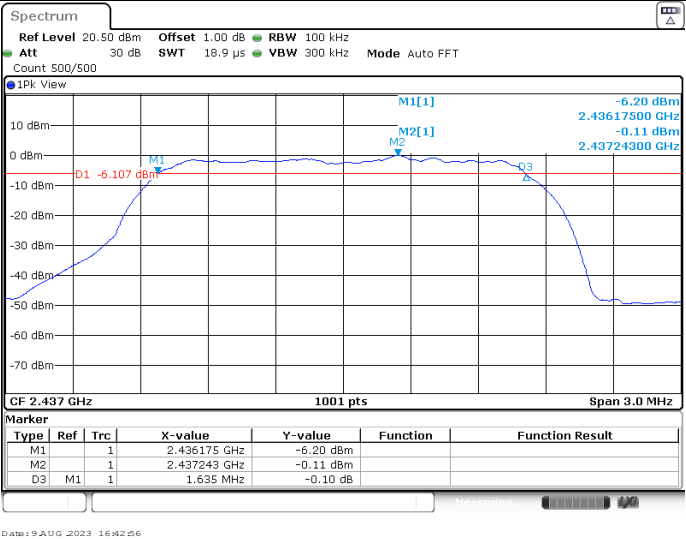
Antenna Type:

HG

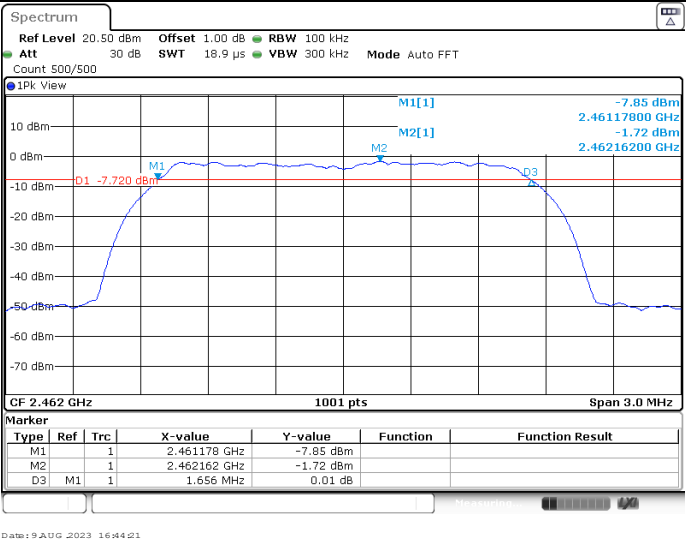
CH_L



CH_M



CH_H



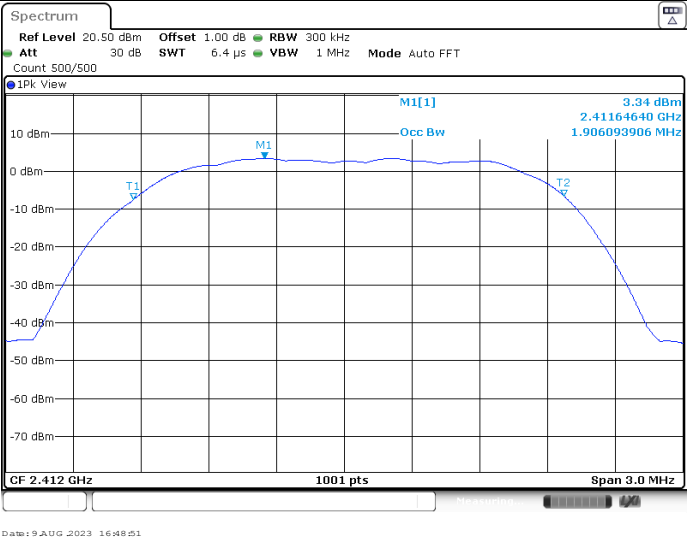
Appendix D: 99% Occupied Bandwidth

Antenna Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
LG	CH _L	1.91	-	Pass
	CH _M	1.93		
	CH _H	1.92		
HG	CH _L	1.93	-	Pass
	CH _M	1.94		
	CH _H	1.97		

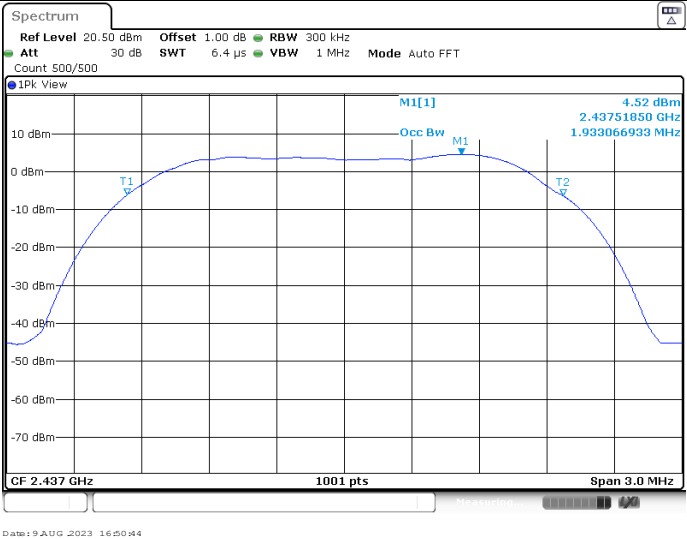
Antenna Type:

LG

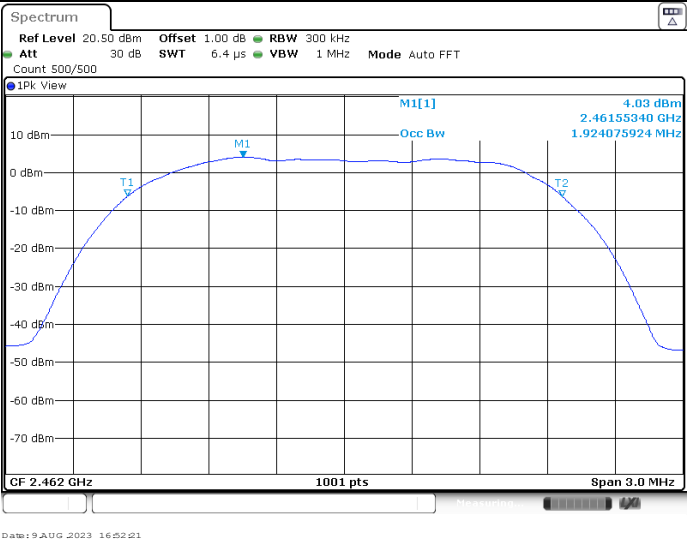
CH_L



CH_M



CH_H



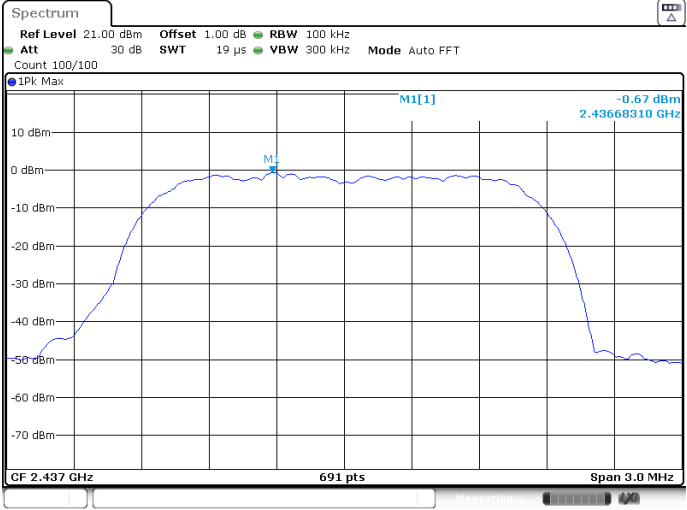
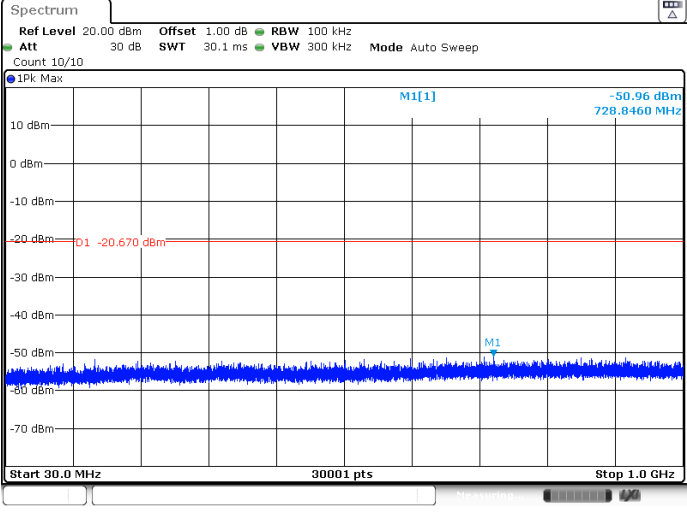
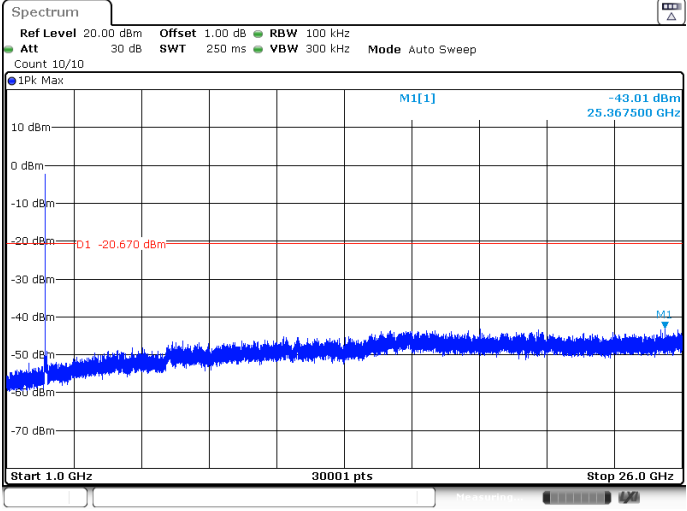
Antenna Type:	HG
CH _L	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 6.4 μs VBW 1 MHz Mode Auto FFT Count 500/500 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] 4.55 dBm 2.41241960 GHz 1.933066933 MHz Occ Bw T1 T2 CF 2.412 GHz 1001 pts Span 3.0 MHz Date: 9 AUG 2023 16:41:18
CH _M	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 6.4 μs VBW 1 MHz Mode Auto FFT Count 500/500 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] 4.65 dBm 2.43707790 GHz 1.942057942 MHz Occ Bw T1 T2 CF 2.437 GHz 1001 pts Span 3.0 MHz Date: 9 AUG 2023 16:43:03
CH _H	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 6.4 μs VBW 1 MHz Mode Auto FFT Count 500/500 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] 3.19 dBm 2.46248550 GHz 1.966033966 MHz Occ Bw T1 T2 CF 2.462 GHz 1001 pts Span 3.0 MHz Date: 9 AUG 2023 16:44:29

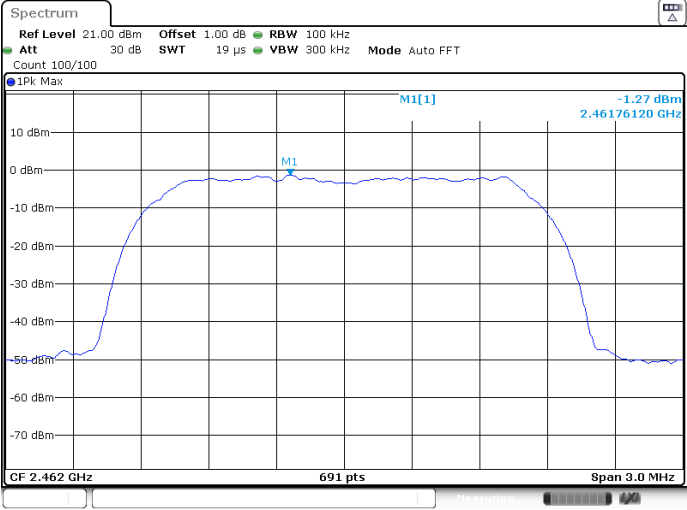
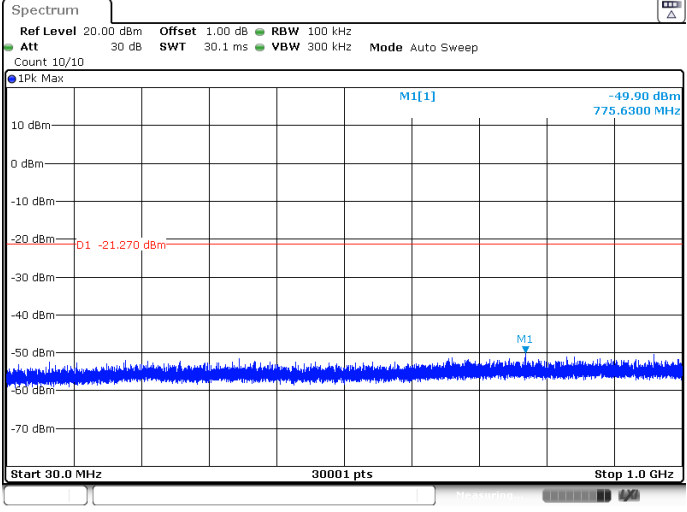
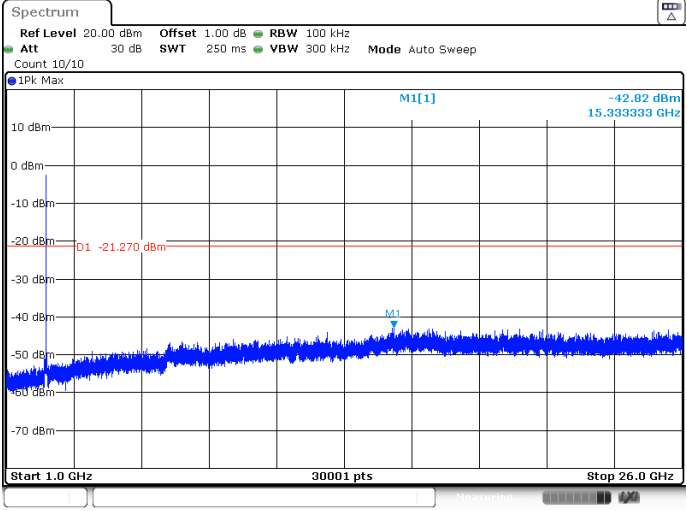
Appendix E: Band edge and Spurious Emissions (conducted)

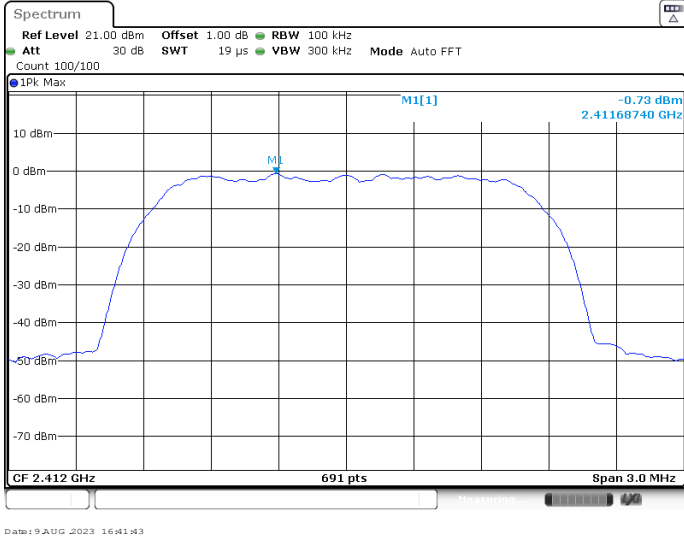
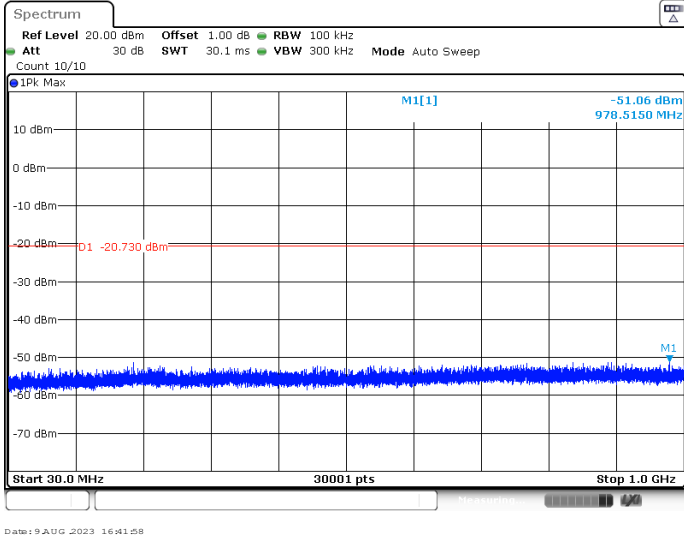
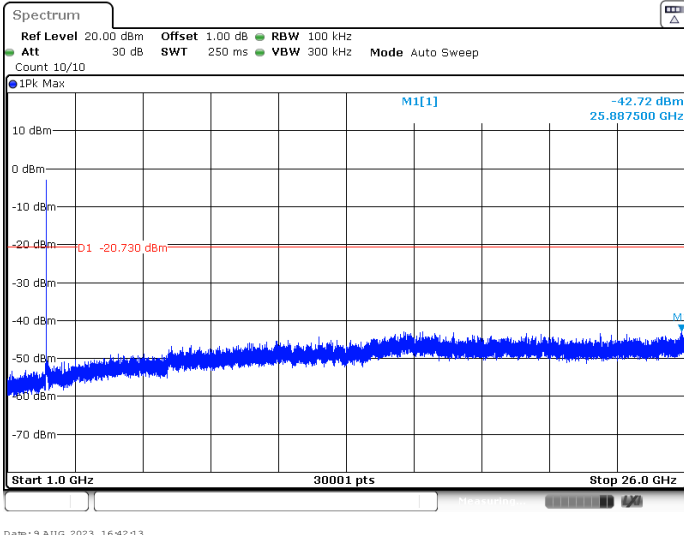
Test Item:	Bandedge	Antenna Type	LG																																										
CH _L	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M4 -2.71 dBm 2.412360 GHz -53.21 dBm 2.400000 GHz D1 -22.750 dBm Start 2.31 GHz 691 pts Stop 2.422 GHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>2.41236 GHz</td><td>-2.71 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.4 GHz</td><td>-53.21 dBm</td><td></td><td></td></tr><tr><td>M3</td><td></td><td>1</td><td>2.39 GHz</td><td>-56.59 dBm</td><td></td><td></td></tr><tr><td>M4</td><td></td><td>1</td><td>2.31 GHz</td><td>-58.55 dBm</td><td></td><td></td></tr><tr><td>M5</td><td></td><td>1</td><td>2.3996 GHz</td><td>-52.81 dBm</td><td></td><td></td></tr></table> Date: 9 AUG. 2023 16:49:11			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.41236 GHz	-2.71 dBm			M2		1	2.4 GHz	-53.21 dBm			M3		1	2.39 GHz	-56.59 dBm			M4		1	2.31 GHz	-58.55 dBm			M5		1	2.3996 GHz	-52.81 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1		1	2.41236 GHz	-2.71 dBm																																									
M2		1	2.4 GHz	-53.21 dBm																																									
M3		1	2.39 GHz	-56.59 dBm																																									
M4		1	2.31 GHz	-58.55 dBm																																									
M5		1	2.3996 GHz	-52.81 dBm																																									
CH _H	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz SWT 113.8 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2[1] M3 M4 -2.16 dBm 2.4622460 GHz -54.29 dBm 2.4835000 GHz D1 -22.160 dBm Start 2.452 GHz 691 pts Stop 2.5 GHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>2.462246 GHz</td><td>-2.16 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.4835 GHz</td><td>-54.29 dBm</td><td></td><td></td></tr><tr><td>M3</td><td></td><td>1</td><td>2.5 GHz</td><td>-54.66 dBm</td><td></td><td></td></tr><tr><td>M4</td><td></td><td>1</td><td>2.4901217 GHz</td><td>-49.49 dBm</td><td></td><td></td></tr></table> Date: 9 AUG. 2023 16:52:41			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.462246 GHz	-2.16 dBm			M2		1	2.4835 GHz	-54.29 dBm			M3		1	2.5 GHz	-54.66 dBm			M4		1	2.4901217 GHz	-49.49 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1		1	2.462246 GHz	-2.16 dBm																																									
M2		1	2.4835 GHz	-54.29 dBm																																									
M3		1	2.5 GHz	-54.66 dBm																																									
M4		1	2.4901217 GHz	-49.49 dBm																																									

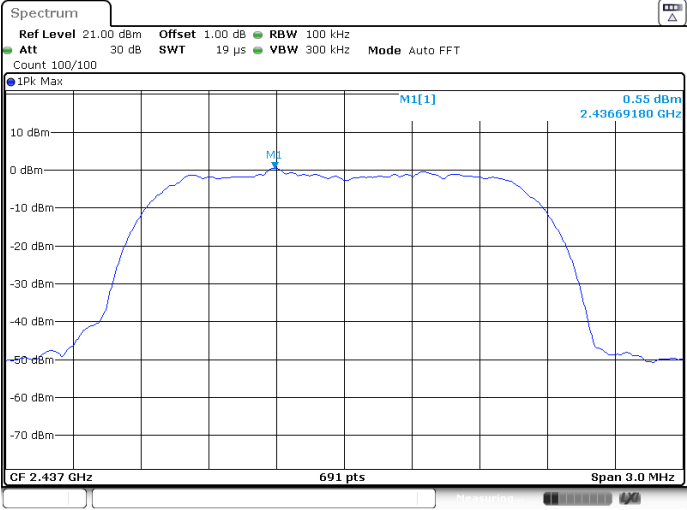
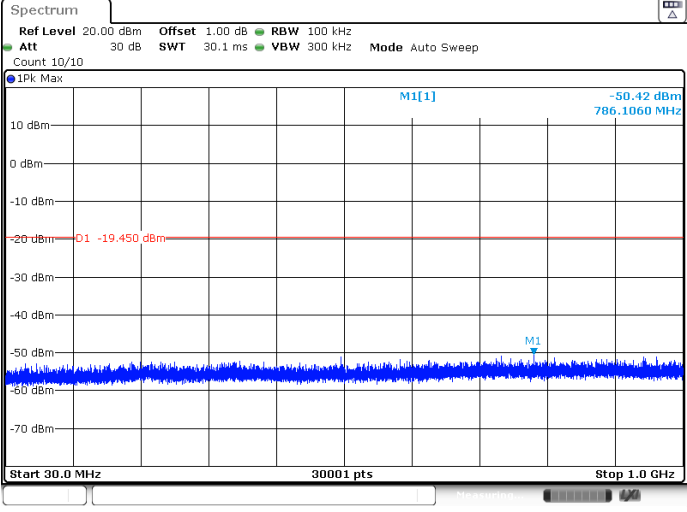
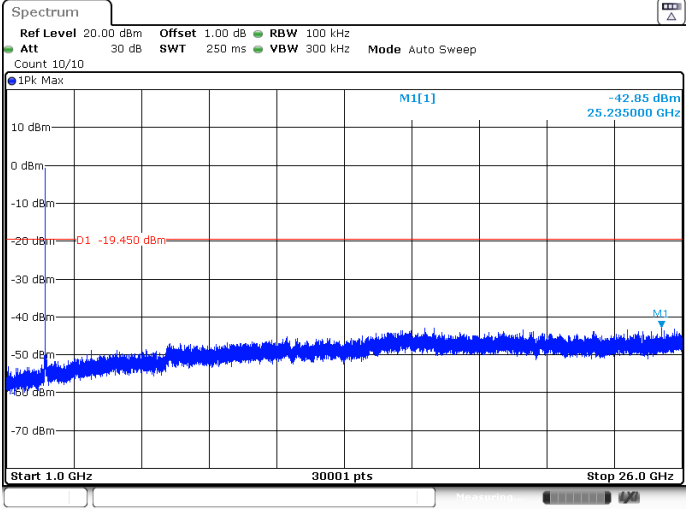
Test Item:	Bandedge	Antenna Type	HG																																										
CH _L	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M5[2] -1.70 dBm 2.411550 GHz -53.59 dBm 2.490000 GHz D1 -21.700 dBm Start 2.31 GHz 691 pts Stop 2.422 GHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>2.41155 GHz</td><td>-1.70 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.4 GHz</td><td>-53.59 dBm</td><td></td><td></td></tr><tr><td>M3</td><td></td><td>1</td><td>2.39 GHz</td><td>-54.75 dBm</td><td></td><td></td></tr><tr><td>M4</td><td></td><td>1</td><td>2.31 GHz</td><td>-57.55 dBm</td><td></td><td></td></tr><tr><td>M5</td><td></td><td>1</td><td>2.397328 GHz</td><td>-53.07 dBm</td><td></td><td></td></tr></table> Date: 9 AUG 2023 16:41:38			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.41155 GHz	-1.70 dBm			M2		1	2.4 GHz	-53.59 dBm			M3		1	2.39 GHz	-54.75 dBm			M4		1	2.31 GHz	-57.55 dBm			M5		1	2.397328 GHz	-53.07 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1		1	2.41155 GHz	-1.70 dBm																																									
M2		1	2.4 GHz	-53.59 dBm																																									
M3		1	2.39 GHz	-54.75 dBm																																									
M4		1	2.31 GHz	-57.55 dBm																																									
M5		1	2.397328 GHz	-53.07 dBm																																									
CH _H	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 113.8 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M2 M4 -2.19 dBm 2.4617600 GHz -53.22 dBm 2.4835000 GHz D1 -22.190 dBm Start 2.452 GHz 691 pts Stop 2.5 GHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>2.46176 GHz</td><td>-2.19 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.4835 GHz</td><td>-53.22 dBm</td><td></td><td></td></tr><tr><td>M3</td><td></td><td>1</td><td>2.5 GHz</td><td>-54.59 dBm</td><td></td><td></td></tr><tr><td>M4</td><td></td><td>1</td><td>2.4899826 GHz</td><td>-50.65 dBm</td><td></td><td></td></tr></table> Date: 9 AUG 2023 16:44:48			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.46176 GHz	-2.19 dBm			M2		1	2.4835 GHz	-53.22 dBm			M3		1	2.5 GHz	-54.59 dBm			M4		1	2.4899826 GHz	-50.65 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1		1	2.46176 GHz	-2.19 dBm																																									
M2		1	2.4835 GHz	-53.22 dBm																																									
M3		1	2.5 GHz	-54.59 dBm																																									
M4		1	2.4899826 GHz	-50.65 dBm																																									

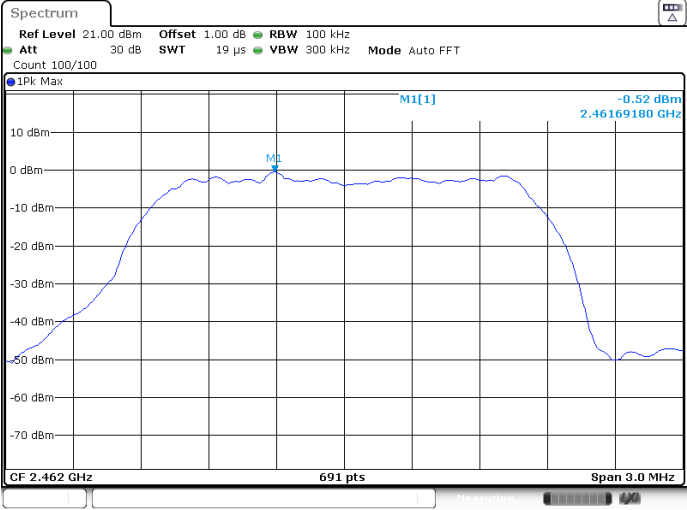
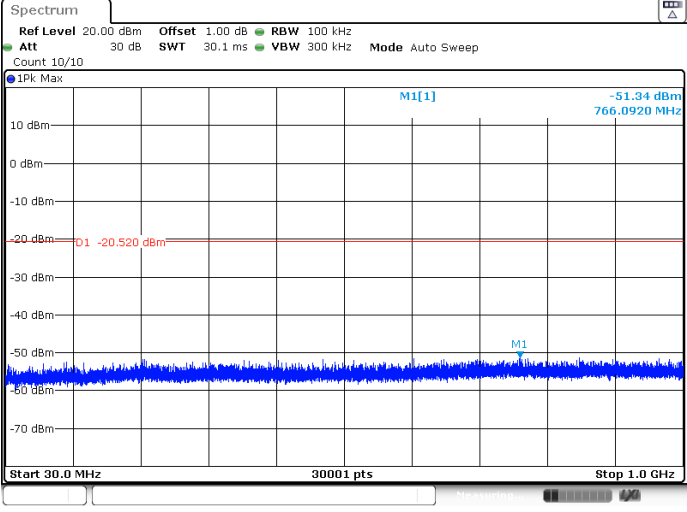
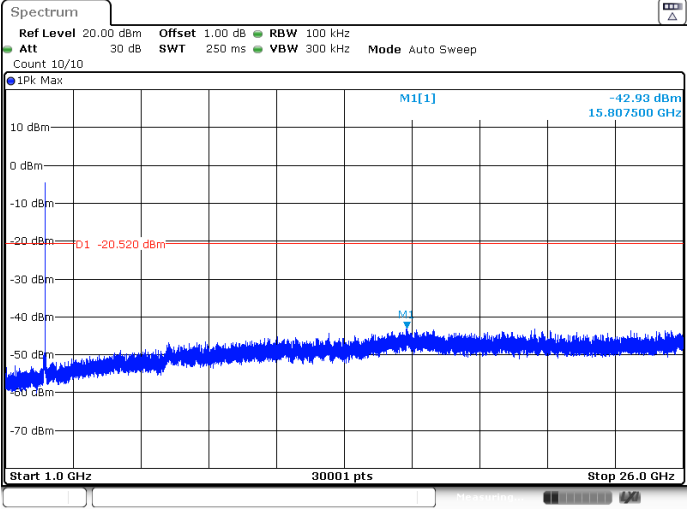
Test Item:	Spurious Emissions	Antenna Type	LG
CH _L Reference level	Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 19 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -2.18 dBm 2.41176560 GHz M1 CF 2.412 GHz 691 pts Span 3.0 MHz Date: 9 AUG 2023 16:49:17		
CH _L 30MHz~1000MHz	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -50.88 dBm 676.5640 MHz D1 -22.180 dBm M1 Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 9 AUG 2023 16:49:32		
CH _L 1GHz~26GHz	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -42.63 dBm 25.533333 GHz D1 -22.180 dBm M1 Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 9 AUG 2023 16:49:47		

CH_M Reference level	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 19 µs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -0.67 dBm 2.43668310 GHz CF 2.437 GHz 691 pts Span 3.0 MHz Date: 9 AUG 2023 16:51:01
CH_M 30MHz~1000MHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -50.96 dBm 728.8460 MHz D1 -20.670 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 9 AUG 2023 16:51:16
CH_M 1GHz~26GHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -43.01 dBm 25.367500 GHz D1 -20.670 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 9 AUG 2023 16:51:31

CH_H Reference level	 Date: 9 AUG. 2023 16:52:47
CH_H 30MHz~1000MHz	 Date: 9 AUG. 2023 16:53:02
CH_H 1GHz~26GHz	 Date: 9 AUG. 2023 16:53:17

Test Item:	Spurious Emissions	Antenna Type	HG
CH _L Reference level			
CH _L 30MHz~1000MHz			
CH _L 1GHz~26GHz			

CH_M Reference level	 Date: 9 AUG 2023 16:43:19
CH_M 30MHz~1000MHz	 Date: 9 AUG 2023 16:43:34
CH_M 1GHz~26GHz	 Date: 9 AUG 2023 16:43:49

CH_H Reference level	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 19 µs VBW 300 kHz Mode Auto FFT Count 100/100 1PK Max M1[1] -0.52 dBm 2.46169180 GHz CF 2.462 GHz 691 pts Span 3.0 MHz Date: 9 AUG 2023 16:44:54
CH_H 30MHz~1000MHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1PK Max M1[1] -51.34 dBm 766.0920 MHz D1 -20.520 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 9 AUG 2023 16:45:09
CH_H 1GHz~26GHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1PK Max M1[1] -42.93 dBm 15.807500 GHz D1 -20.520 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 9 AUG 2023 16:45:24

-----End of Report-----