

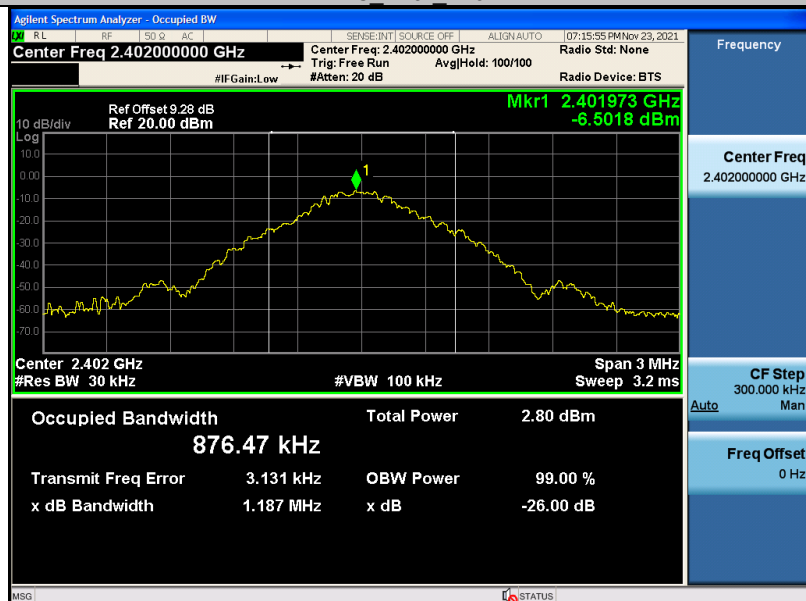
Appendix B: Test Results of Bluetooth BR/EDR mode

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Appendix B.1: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87647	2401.565	2402.441	---	PASS
		2441	0.86700	2440.568	2441.435	---	PASS
		2480	0.86343	2479.575	2480.438	---	PASS
3DH5	Ant1	2402	1.1845	2401.411	2402.595	---	PASS
		2441	1.1853	2440.405	2441.590	---	PASS
		2480	1.1924	2479.411	2480.603	---	PASS

DH5_Ant1_2402



DH5_Ant1_2441







Appendix B.2: Test Results of 20dB Bandwidth

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.933	2401.544	2402.477	---	PASS
		2441	0.936	2440.547	2441.483	---	PASS
		2480	0.957	2479.538	2480.495	---	PASS
3DH5	Ant1	2402	1.290	2401.355	2402.645	---	PASS
		2441	1.287	2440.352	2441.639	---	PASS
		2480	1.302	2479.355	2480.657	---	PASS







Appendix B.3: Test Results of Carrier Frequency Separation

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hopping-2402	1.002	≥0.942	PASS
	Ant1	Hopping-2441	0.999		
	Ant1	Hopping-2480	1.002		
3DH5	Ant1	Hopping-2402	0.999	≥0.866	PASS
	Ant1	Hopping-2441	1.002		
	Ant1	Hopping-2480	0.999		

DH5 Ant1 Hop 2402



DH5 Ant1 Hop 2441





DH5 Ant1 Hop 2441

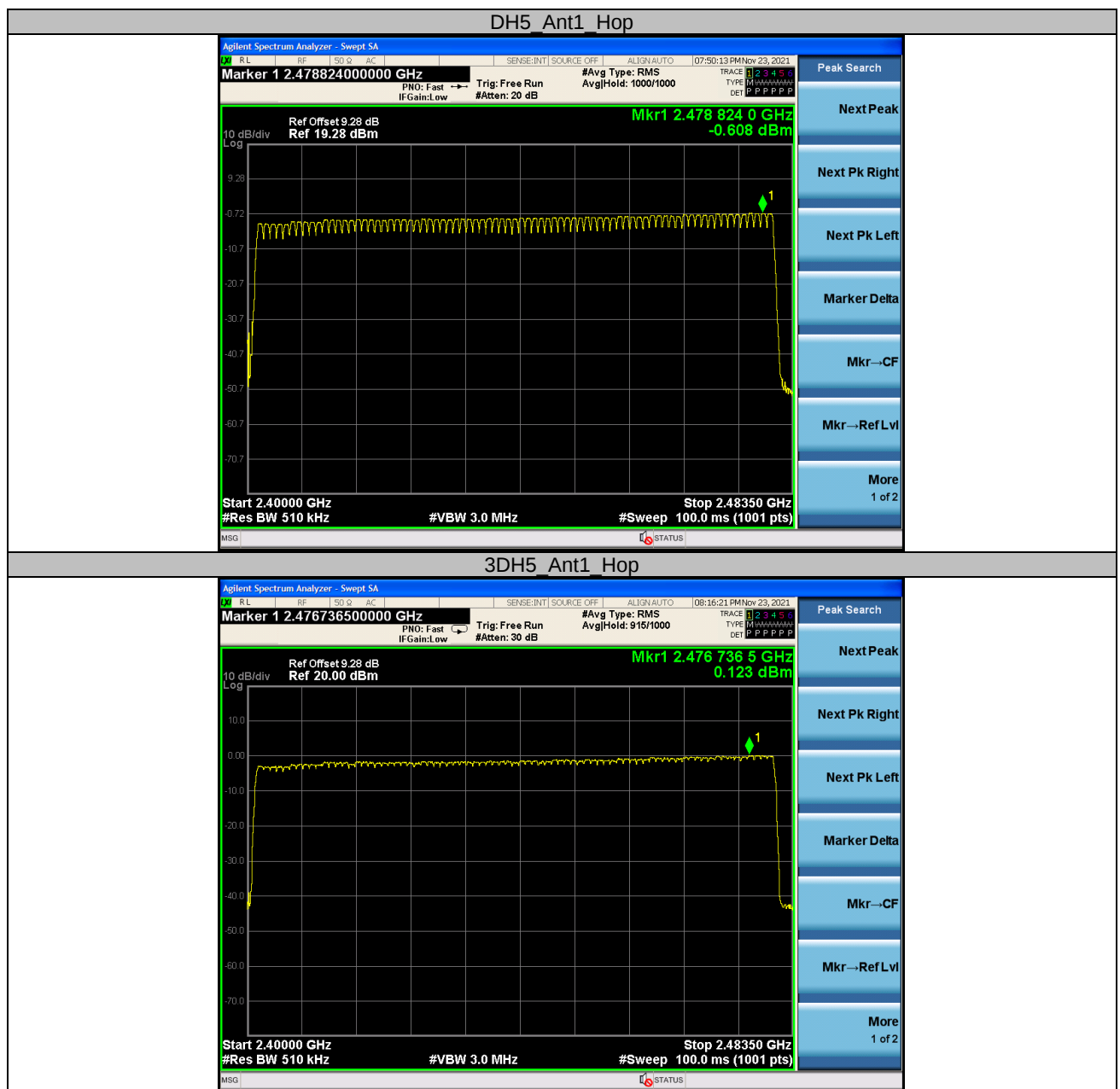


3DH5 Ant1 Hop 2480



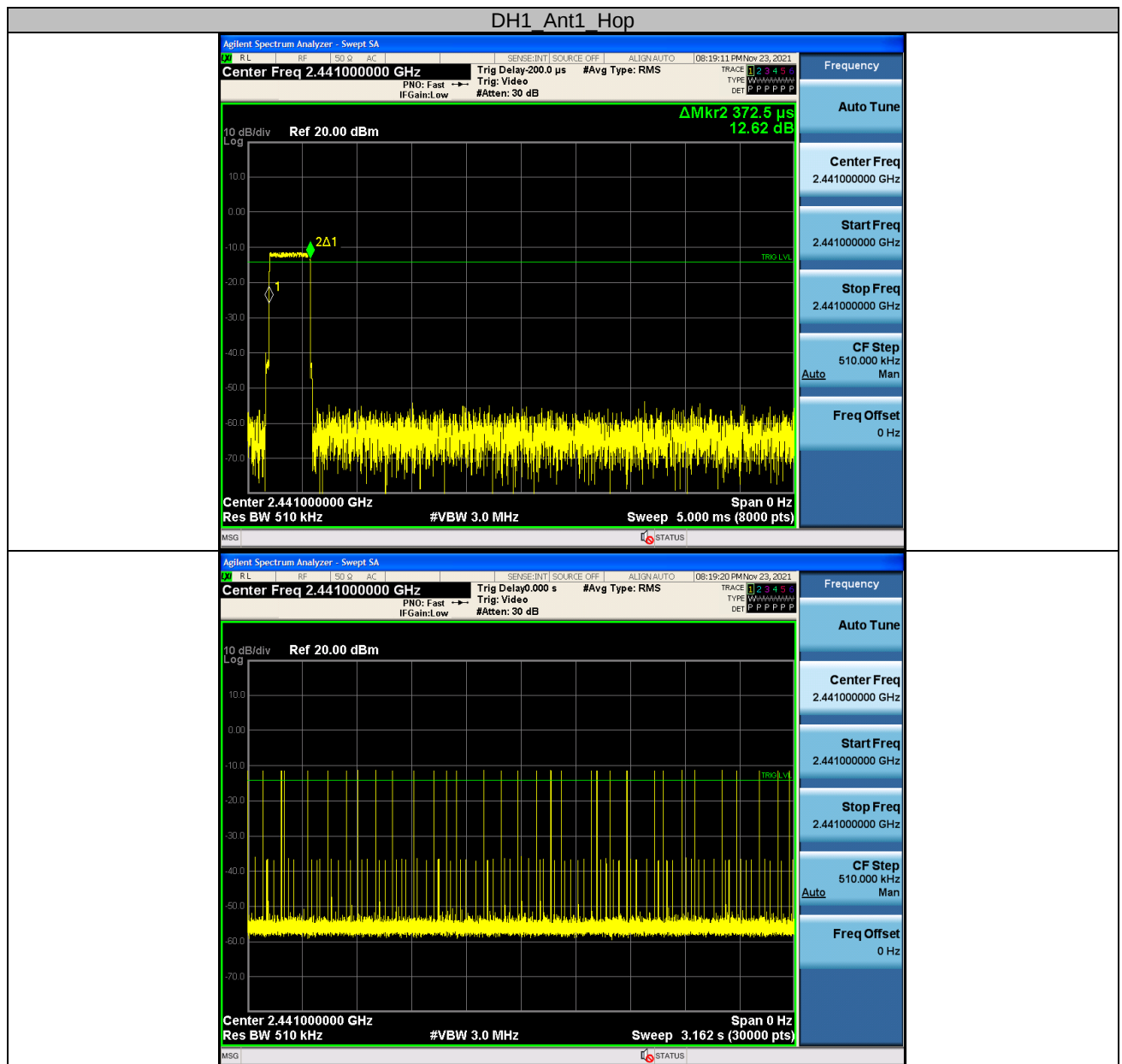
Appendix B.4: Test Results of Number of Hopping Frequency

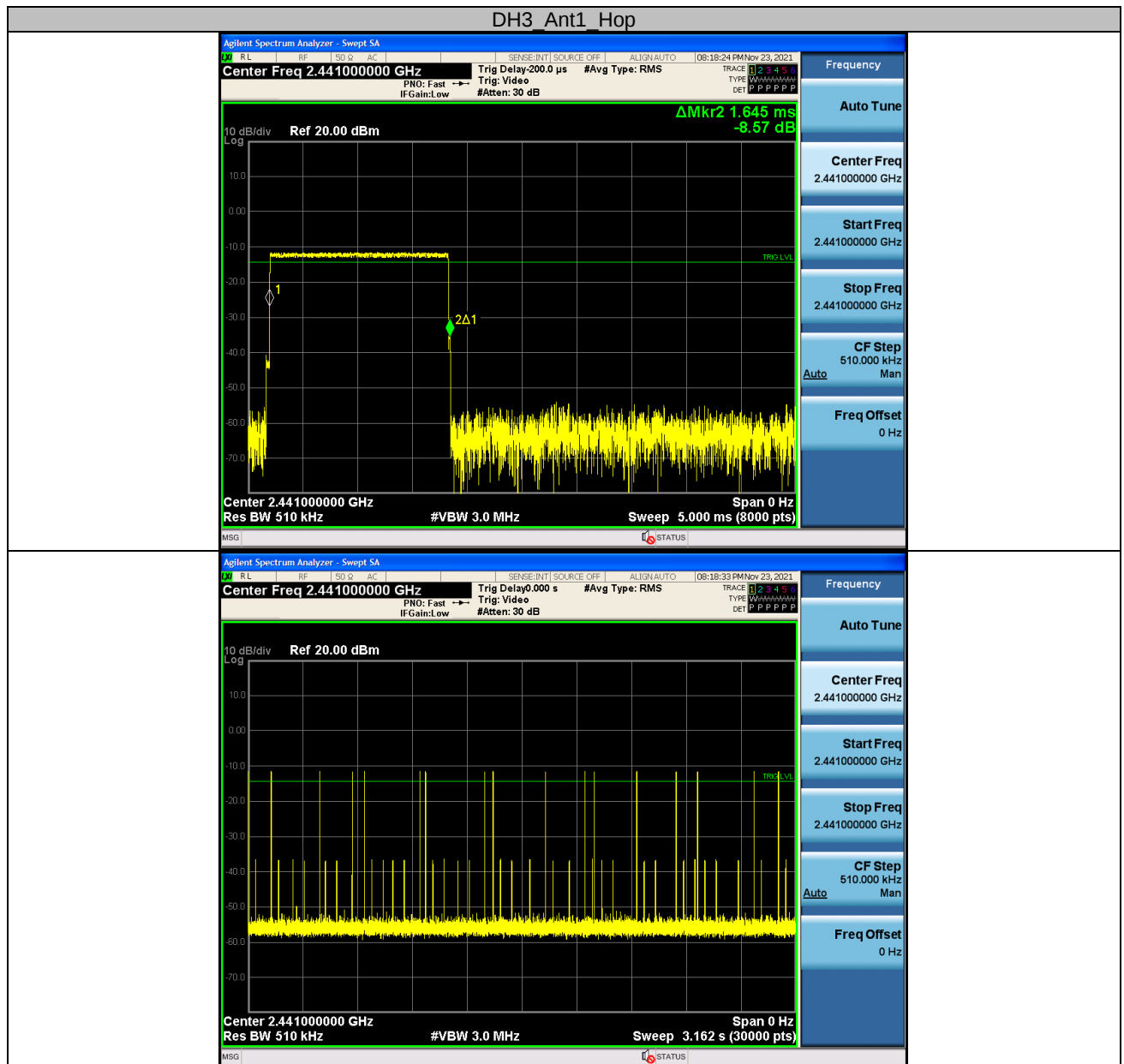
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

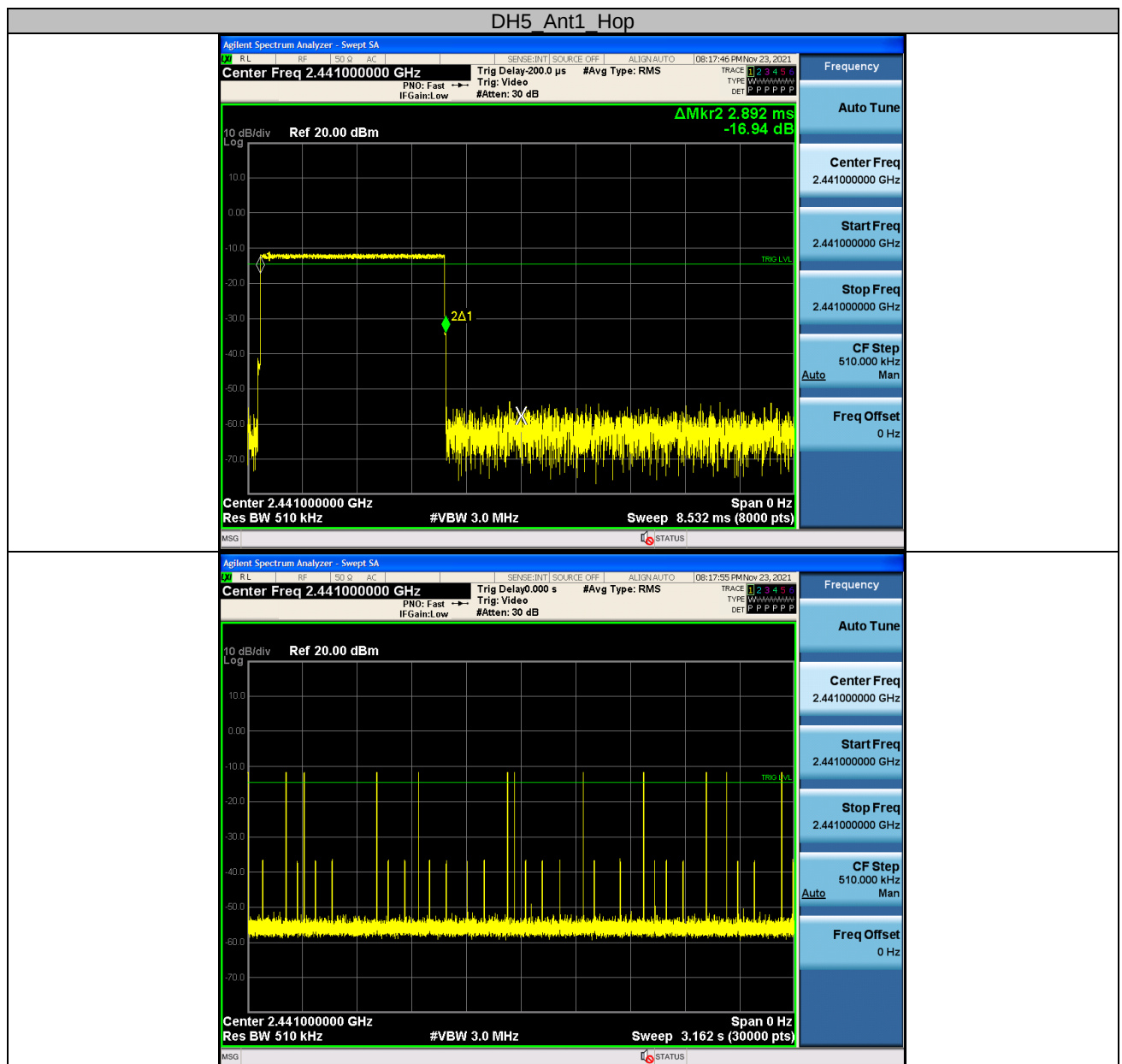


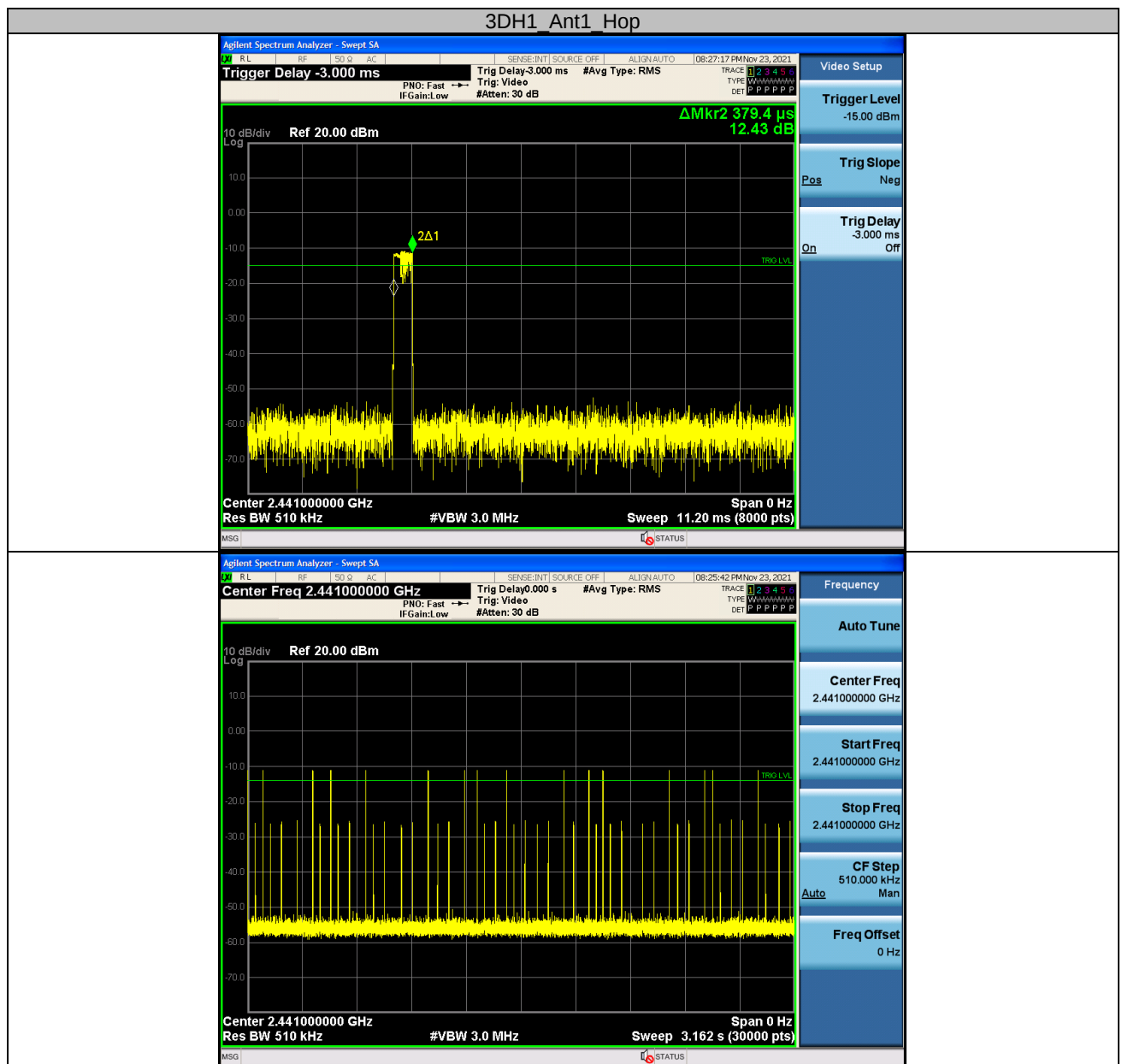
Appendix B.5: Test Results of Time of Occupancy

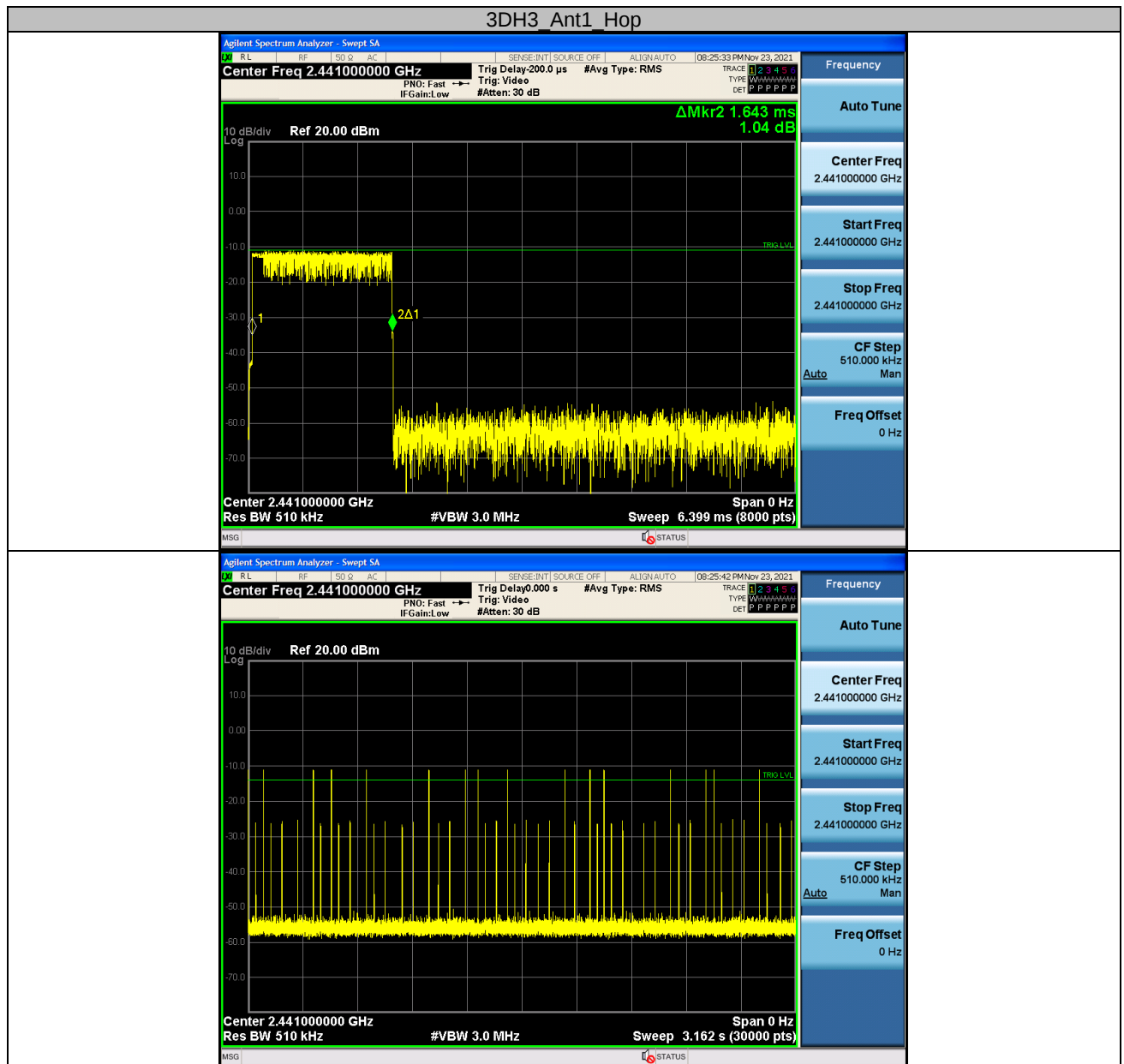
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	330	0.123	≤0.4	PASS
DH3	Ant1	Hop	1.64	170	0.28	≤0.4	PASS
DH5	Ant1	Hop	2.89	120	0.347	≤0.4	PASS
3DH1	Ant1	Hop	0.38	330	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.64	160	0.263	≤0.4	PASS
3DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS

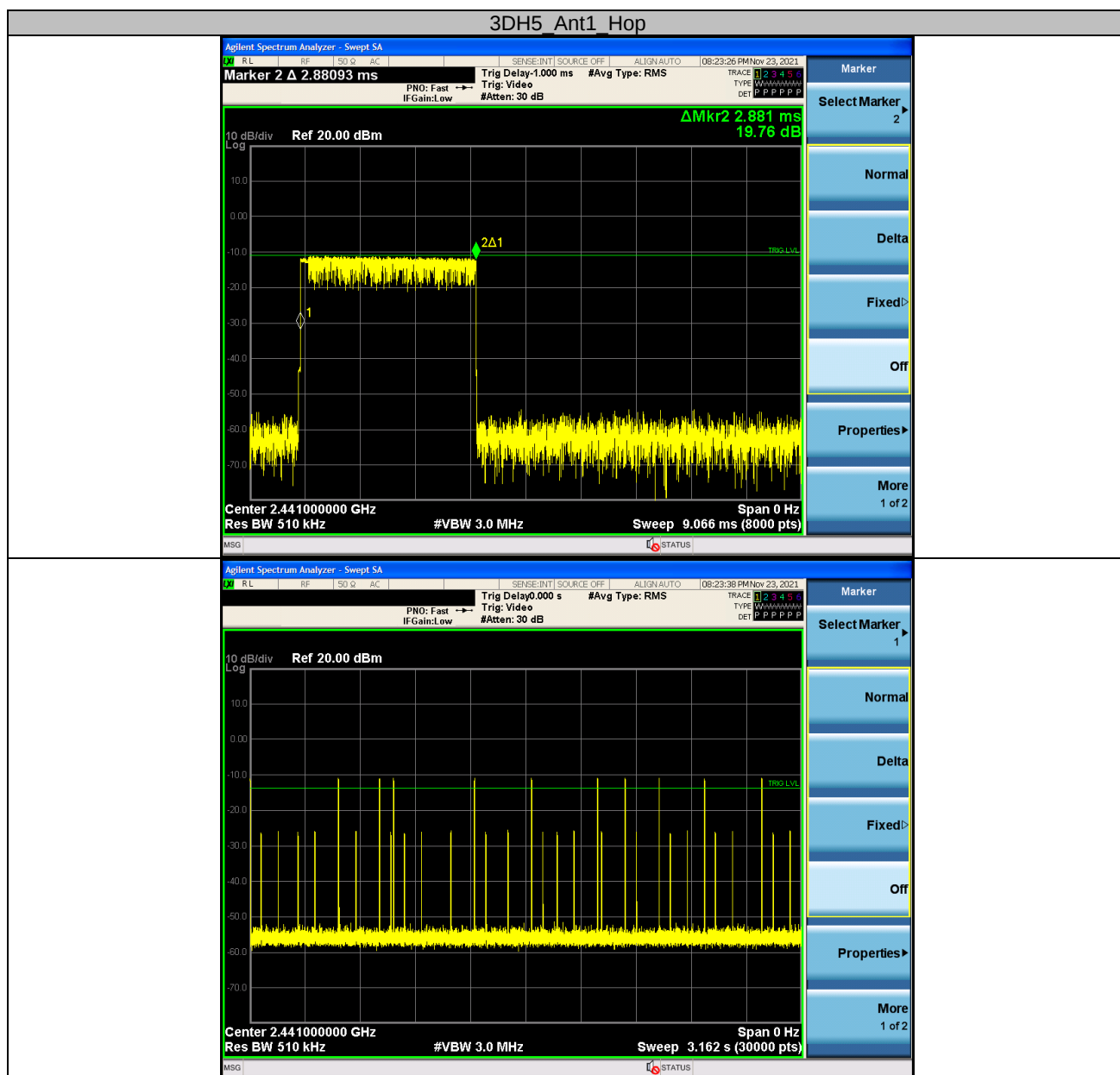








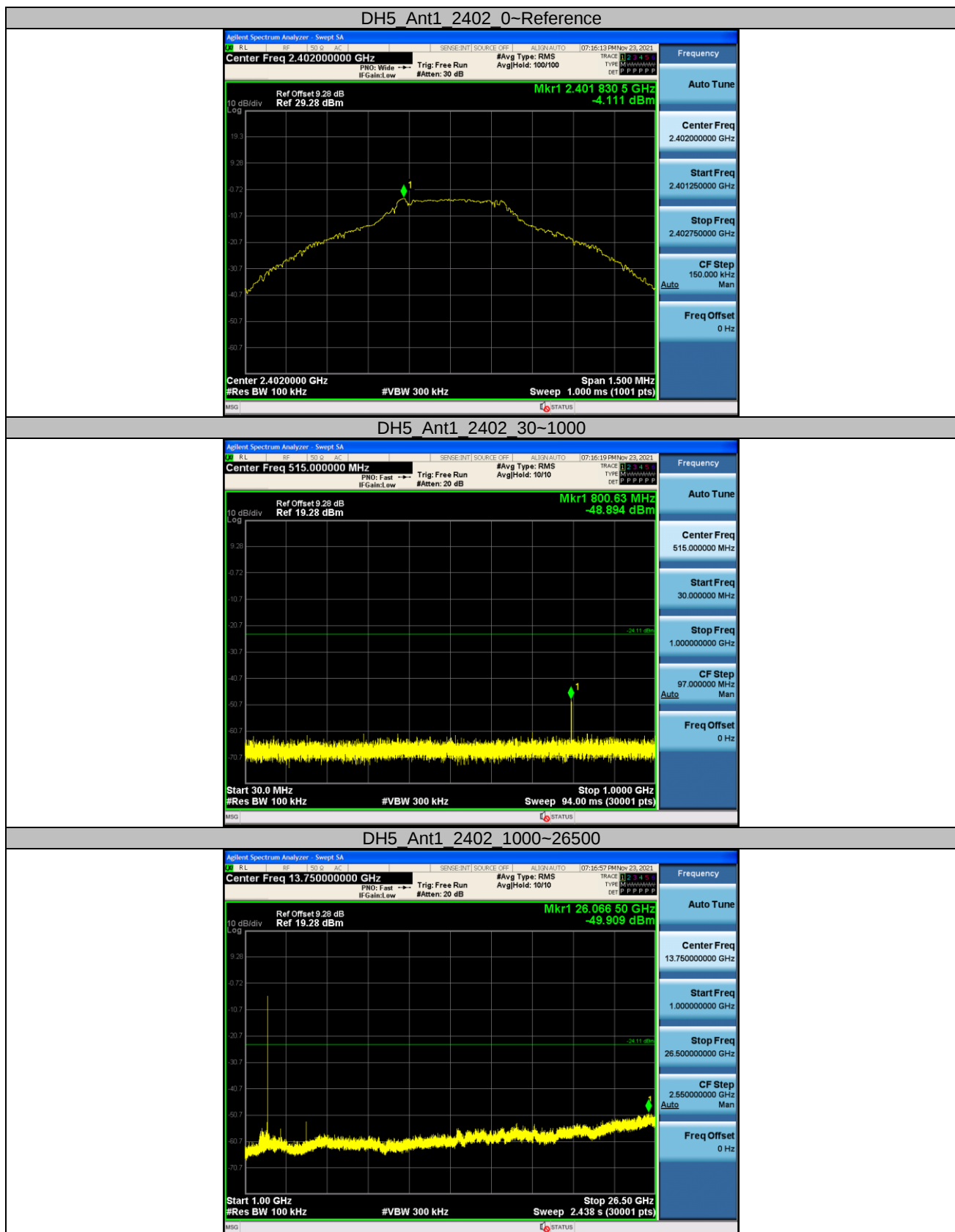


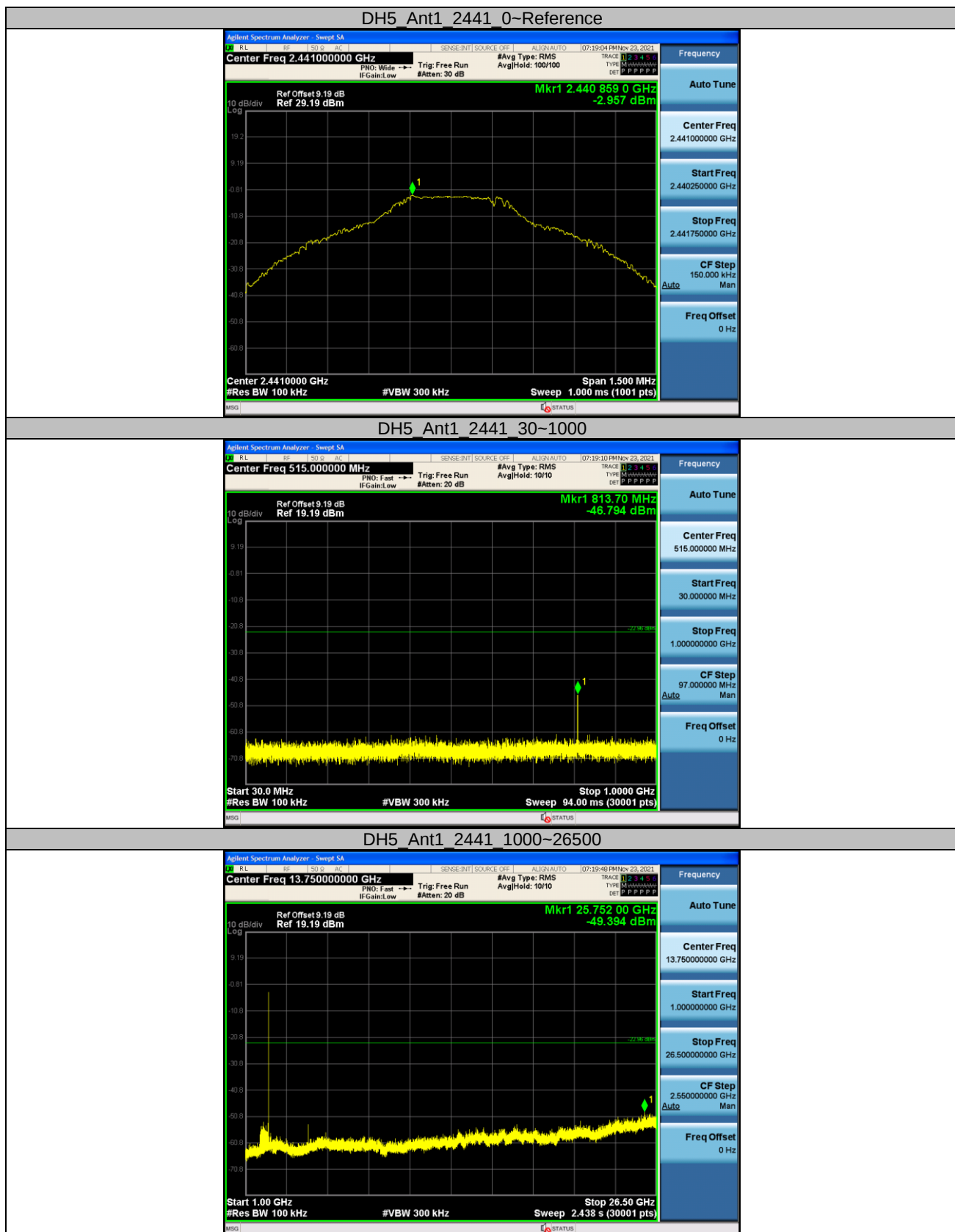


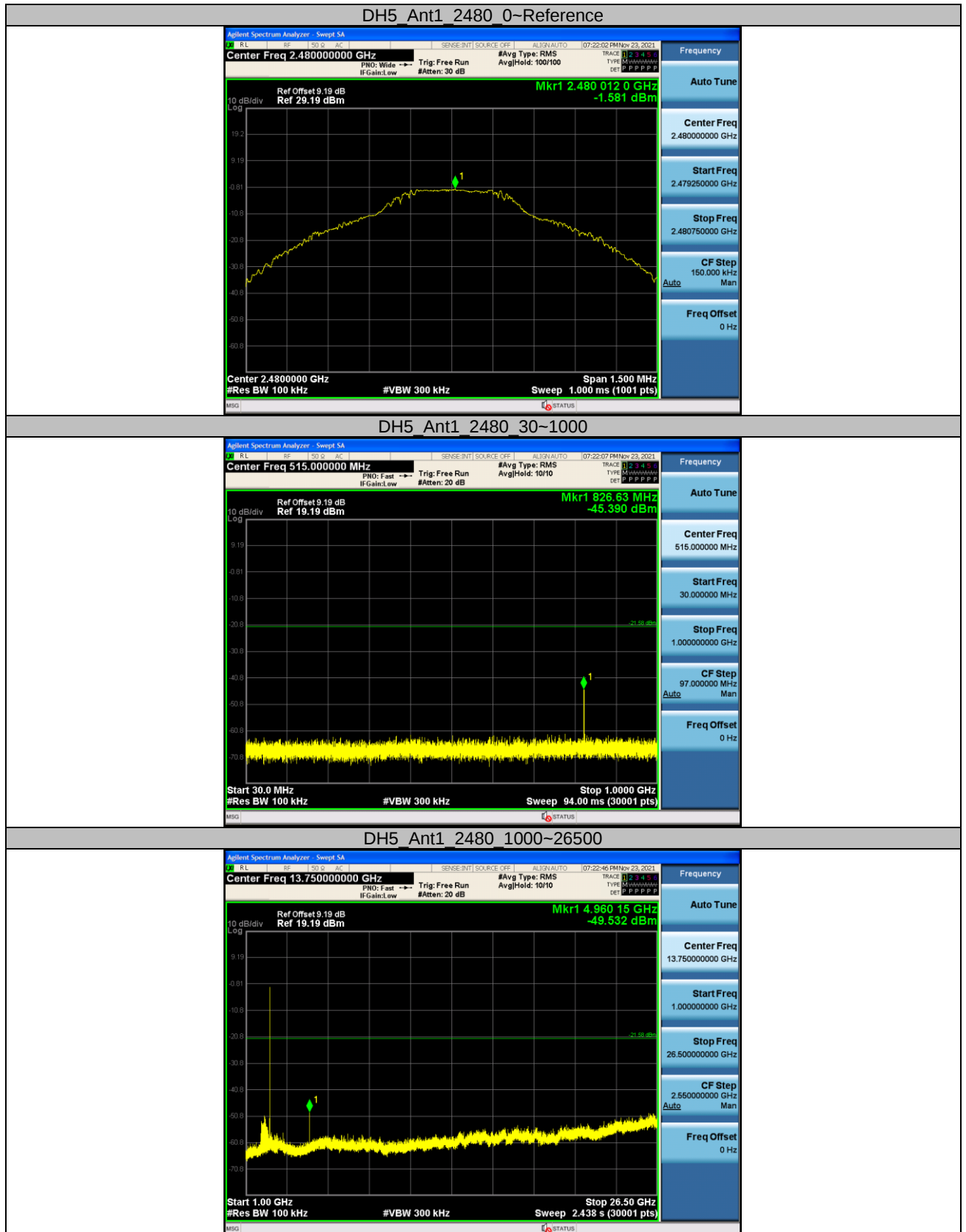
Appendix B.6: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.111		---	---
			30~1000		-48.89	≤-24.11	PASS
			1000~26500		-49.90	≤-24.11	PASS
		2441	Reference	-2.957		---	PASS
			30~1000		-46.79	≤-22.96	PASS
			1000~26500		-49.39	≤-22.96	PASS
		2480	Reference	-1.581		---	---
			30~1000		-45.39	≤-21.58	PASS
			1000~26500		-49.53	≤-21.58	PASS
3DH5	Ant1	2402	Reference	-4.934		---	---
			30~1000		-51.476	≤-24.93	PASS
			1000~26500		-50.082	≤-24.93	PASS
		2441	Reference	-2.517		---	---
			30~1000		-46.220	≤-22.52	PASS
			1000~26500		-50.328	≤-22.52	PASS
		2480	Reference	-1.051		---	---
			30~1000		-47.161	≤-21.05	PASS
			1000~26500		-50.167	≤-21.05	PASS



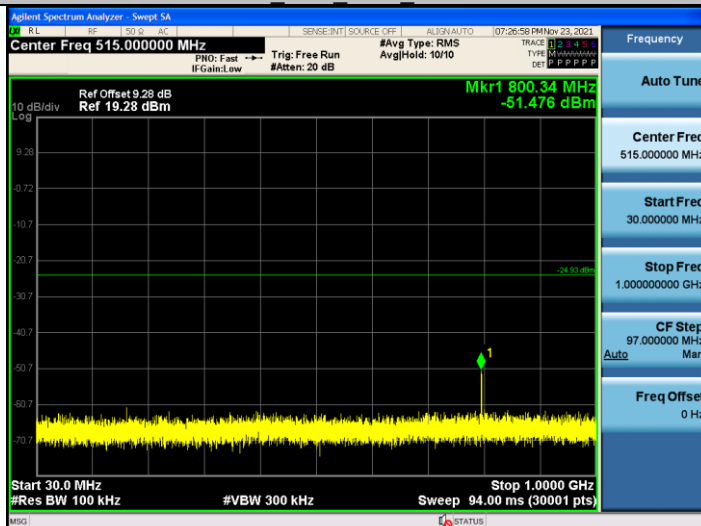




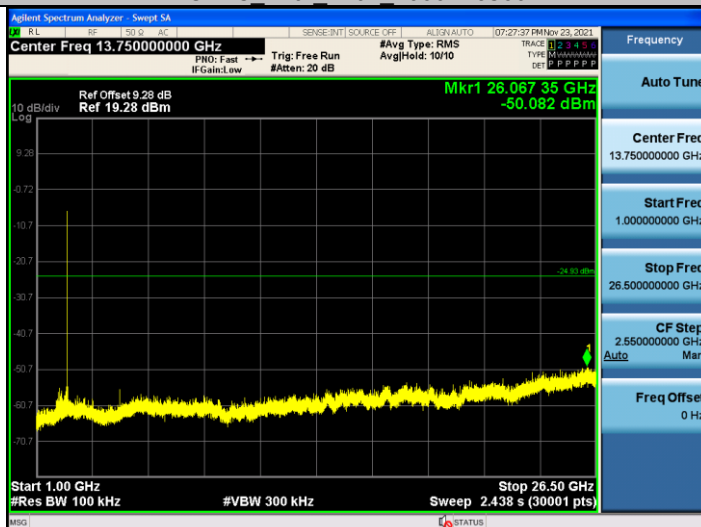
3DH5_Ant1_2402_0-Reference



3DH5_Ant1_2402_30-1000



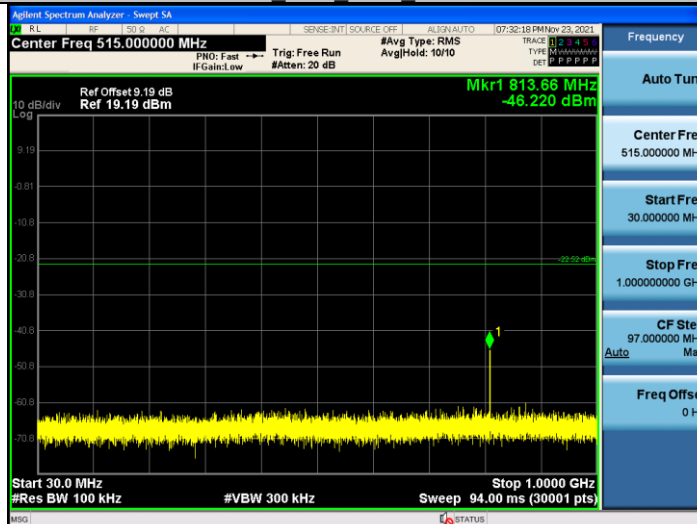
3DH5_Ant1_2402_1000-26500



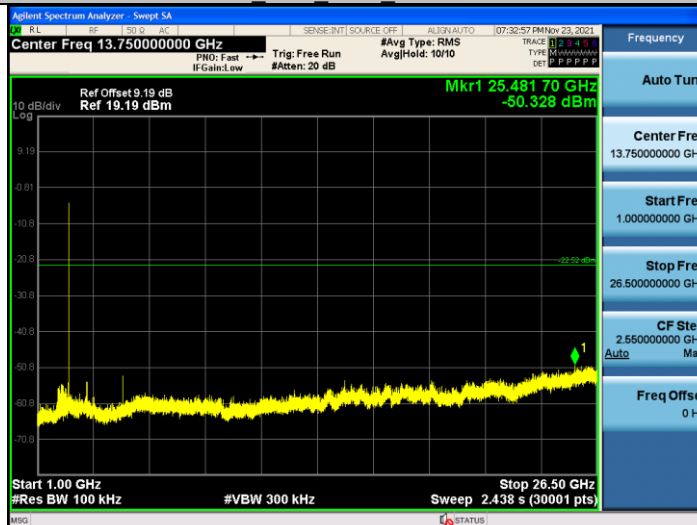
3DH5_Ant1_2441_0-Reference



3DH5_Ant1_2441_30-1000



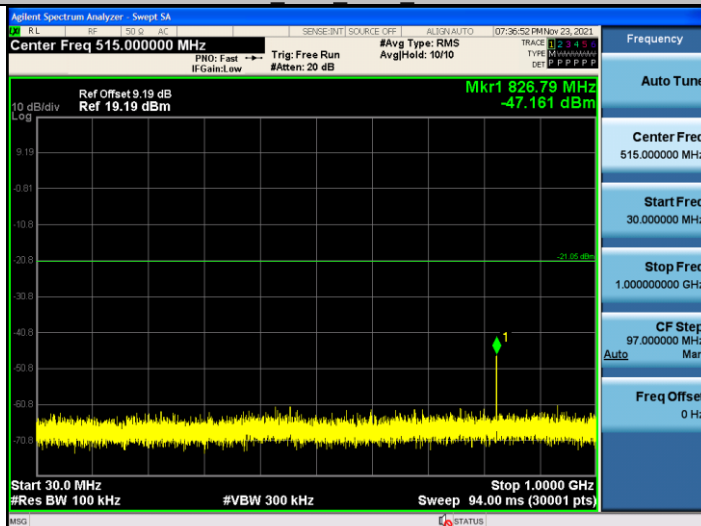
3DH5_Ant1_2441_1000-26500



3DH5_Ant1_2480_0-Reference



3DH5_Ant1_2480_30-1000



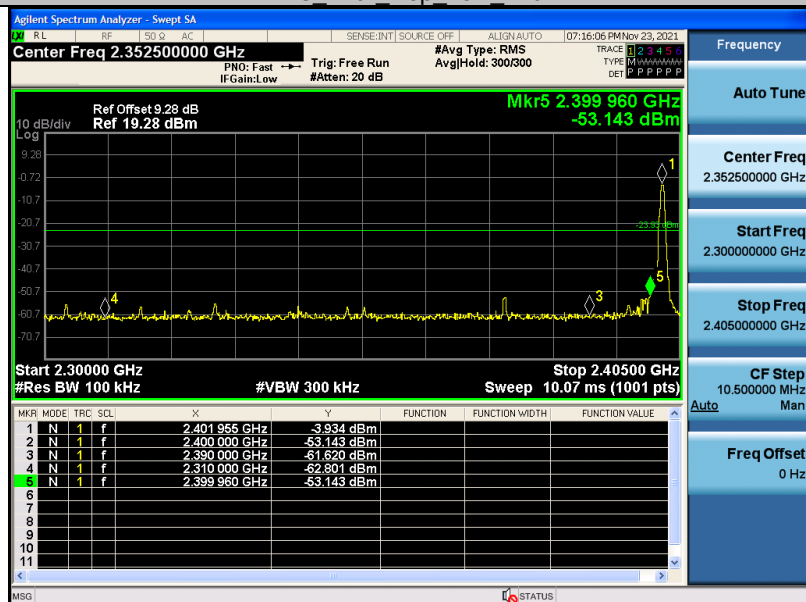
3DH5_Ant1_2480_1000-26500



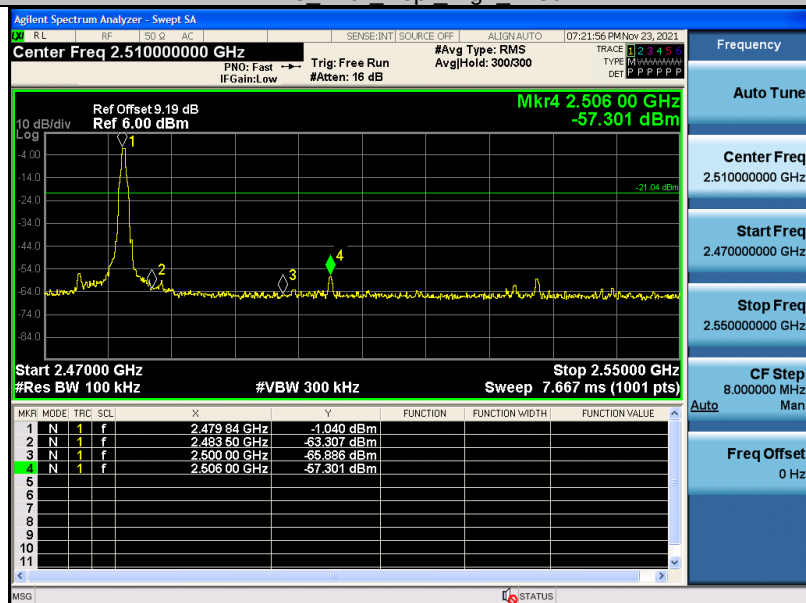
Band Edge

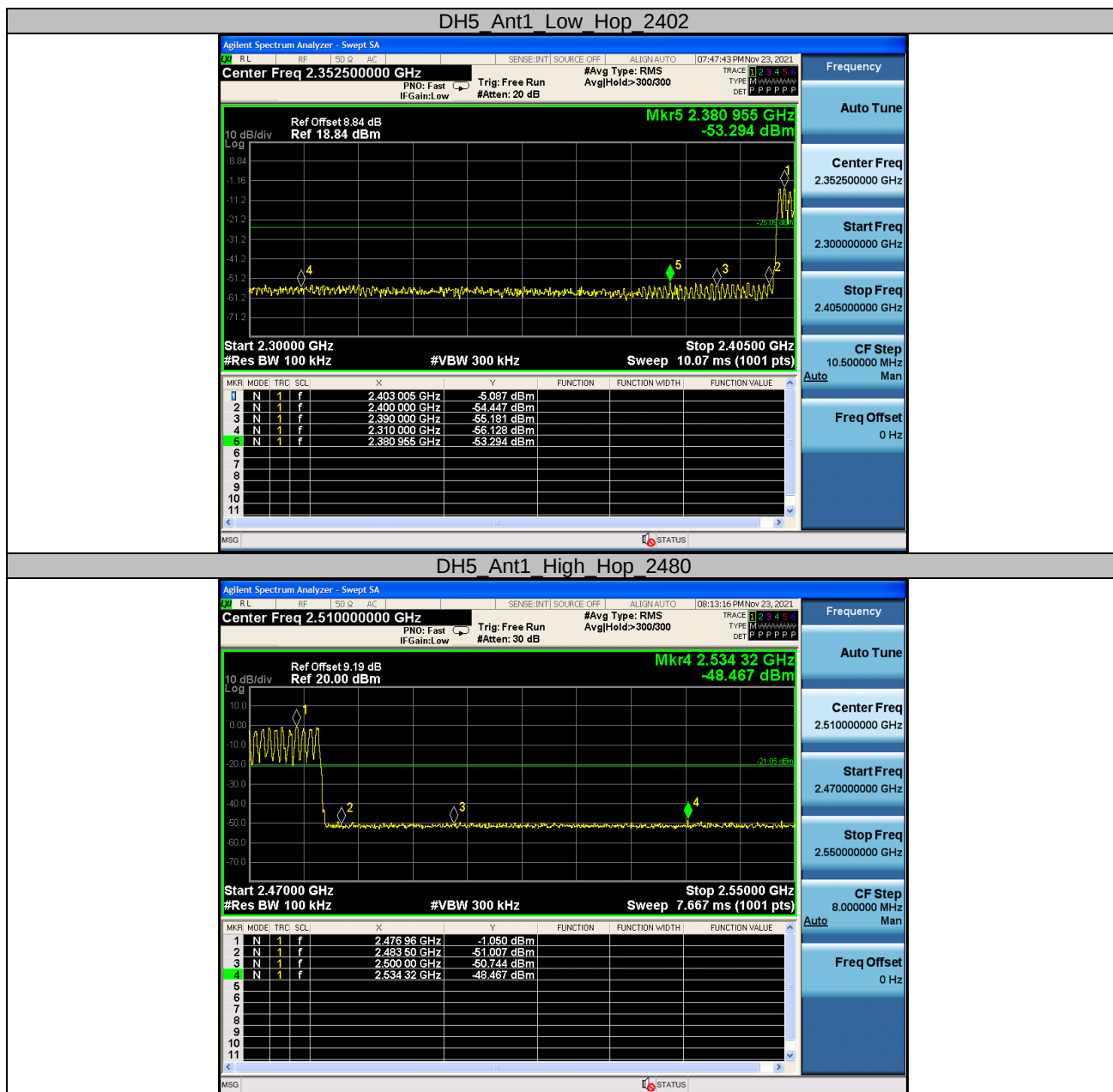
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.93	-53.14	≤-23.93	PASS
		High	2480	-1.04	-57.30	≤-21.04	PASS
		Low	Hop 2402	-5.09	-53.29	≤-25.09	PASS
		High	Hop 2480	-1.05	-48.46	≤-21.05	PASS
3DH5	Ant1	Low	2402	-3.87	-48.88	≤-23.87	PASS
		High	2480	-0.97	-56.56	≤-20.97	PASS
		Low	Hop 2402	-4.26	-49.01	≤-24.26	PASS
		High	Hop 2480	-0.95	-49.15	≤-20.95	PASS

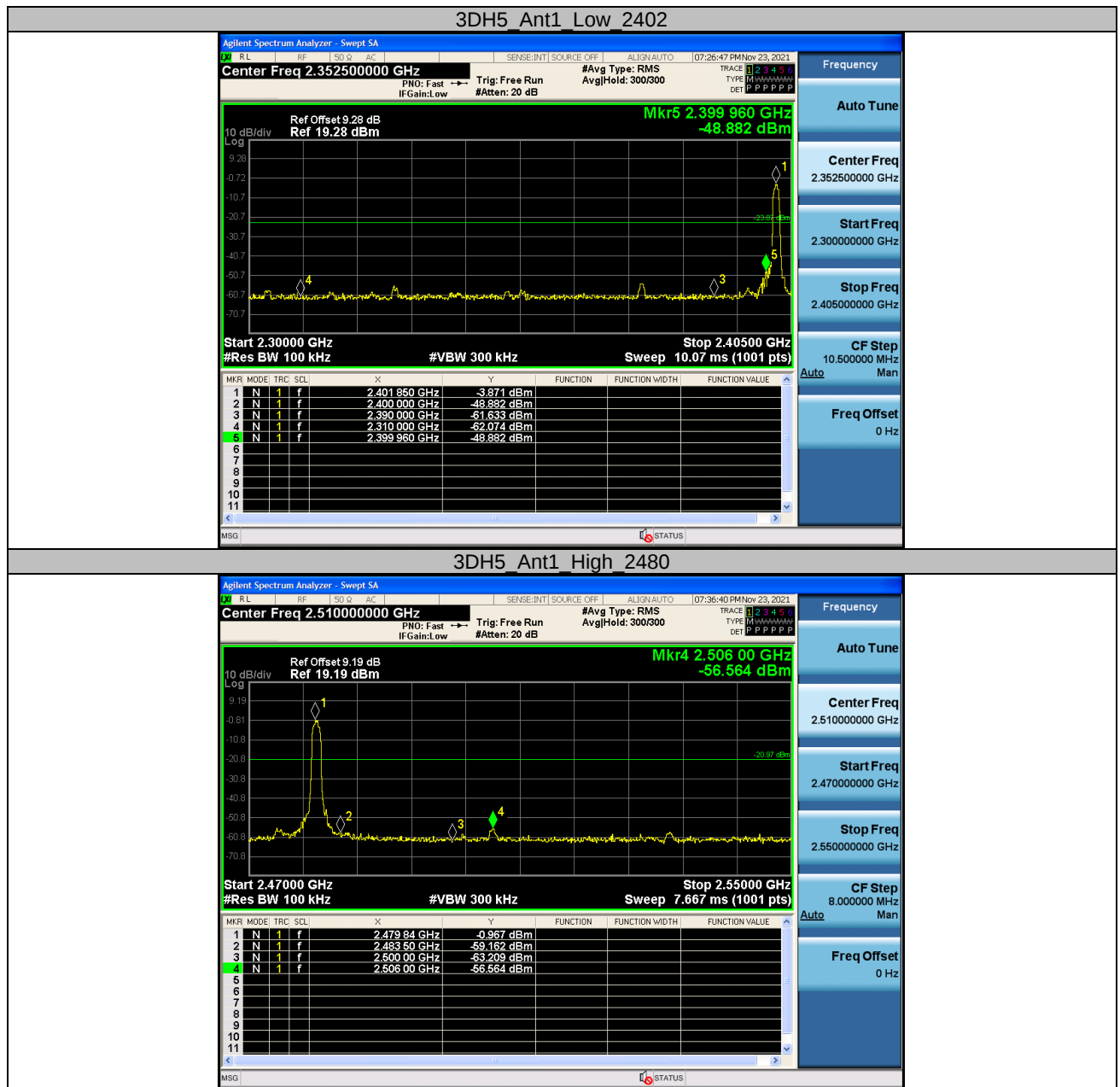
DH5 Ant1 Hop Low 2402

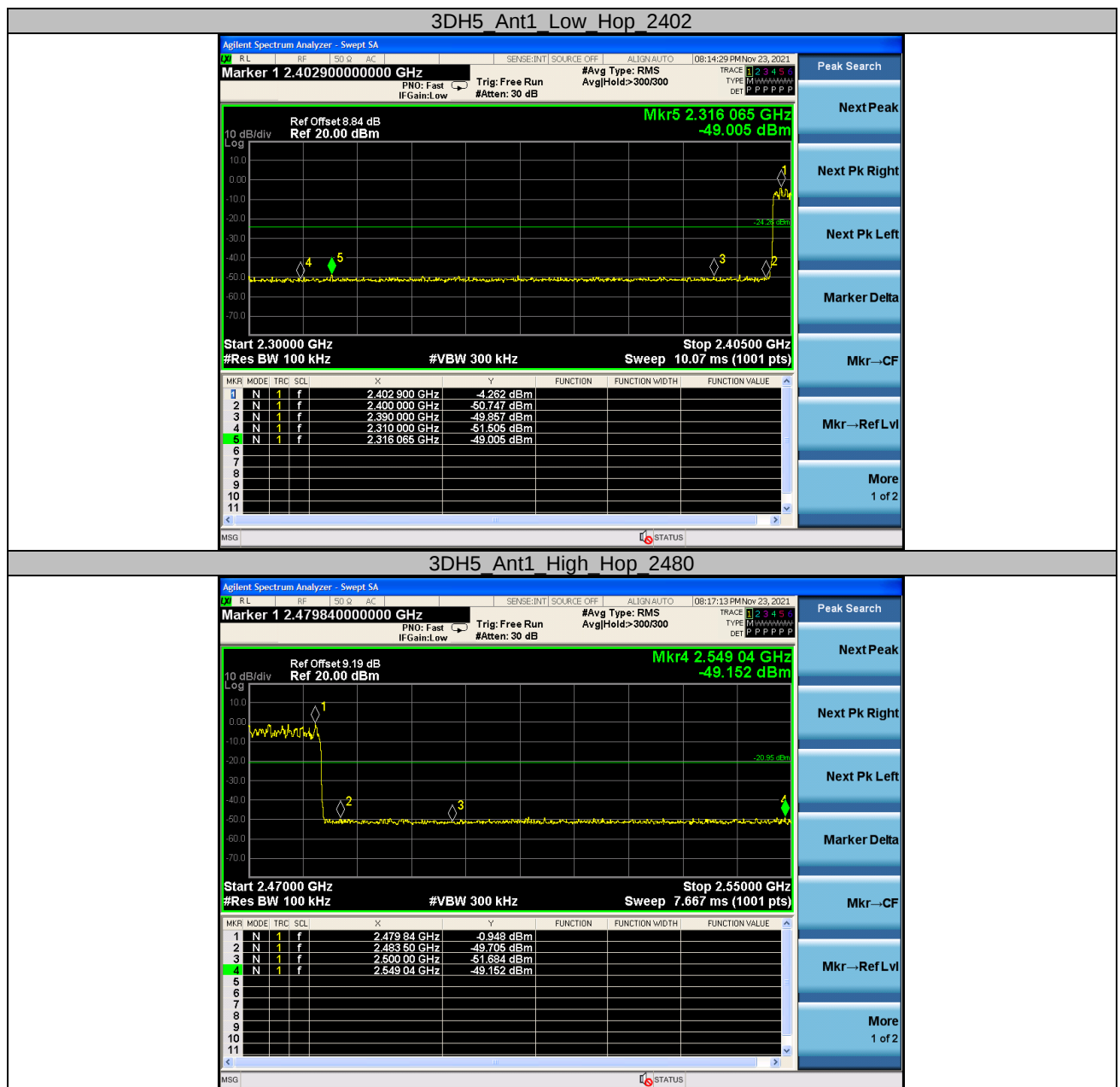


DH5 Ant1 Hop High 2480









Note: 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.

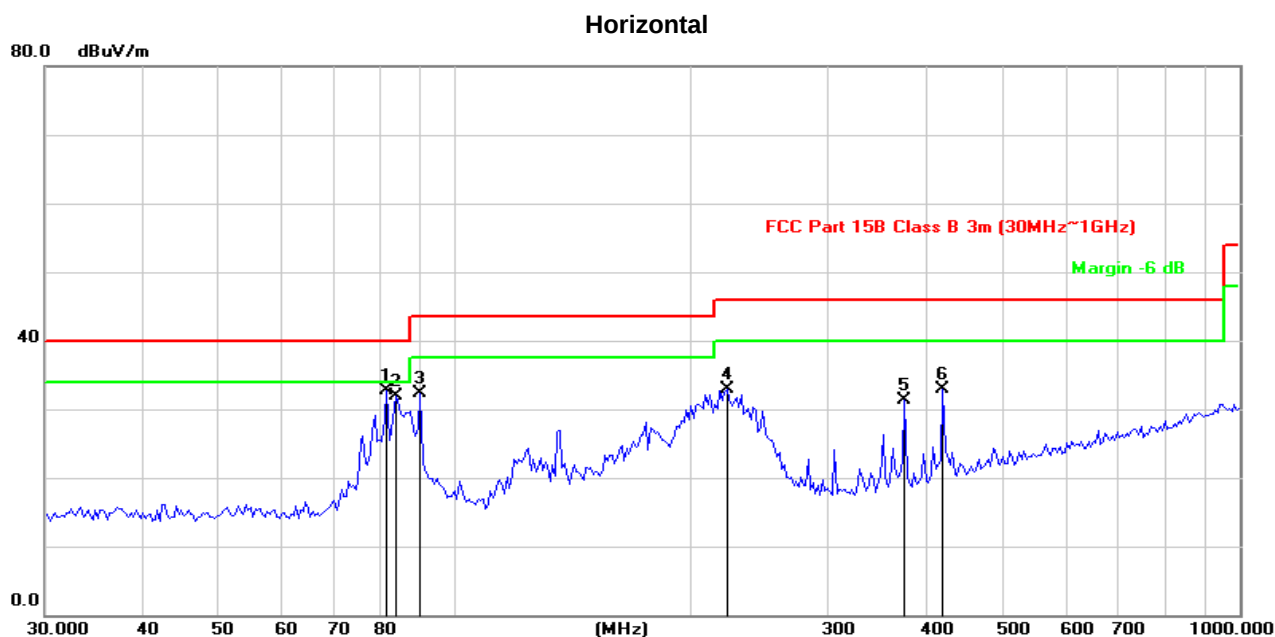
Appendix B.7: Test Results of Radiated Spurious Emissions

Note: This testing was carried out on different modulations, but only the worst case was presented in this report.

30MHz - 1GHz

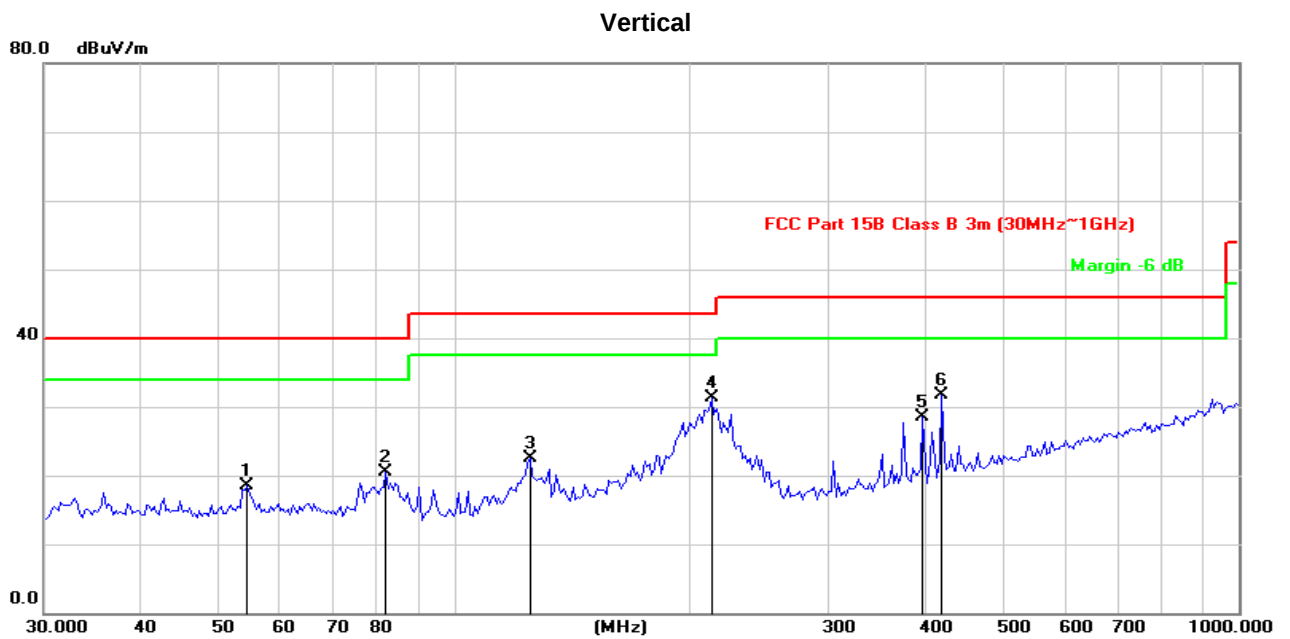
EUT Information

EUT Name:	M18/M12 Wireless Jobsite Speaker
Model:	2891-20
Test Mode:	BR_DH5_Hop
Test Voltage::	DC 18V From Adapter With AC 120V/60Hz
Remark:	Temp 24 Humi: 37%
Test Standard:	FCC 15.247
Tested By:	Jim Xu
Reviewed By:	Scott He



Critical_Freqs

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	81.9477	50.61	-17.84	32.77	40.00	-7.23	peak	200	310
2	84.2839	49.83	-18.02	31.81	40.00	-8.19	peak	200	287
3	90.4198	50.71	-18.46	32.25	43.50	-11.25	peak	200	124
4	222.2807	48.99	-16.08	32.91	46.00	-13.09	peak	200	54
5	373.8861	43.71	-12.36	31.35	46.00	-14.65	peak	200	100
6	418.3783	44.31	-11.34	32.97	46.00	-13.03	peak	200	130



Critical_Freqs

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	54.5167	35.40	-16.82	18.58	40.00	-21.42	peak	100	114
2	81.9477	38.26	-17.84	20.42	40.00	-19.58	peak	100	120
3	124.9249	38.47	-15.88	22.59	43.50	-20.91	peak	100	341
4	213.1035	47.70	-16.34	31.36	43.50	-12.14	peak	100	264
5	395.5071	40.51	-11.99	28.52	46.00	-17.48	peak	100	258
6	418.3783	43.13	-11.34	31.79	46.00	-14.21	peak	100	134

1GHz - 18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name: M18/M12 Wireless Jobsite Speaker
Model: 2891-20
Test Mode: BR_DH5_Low channel
Test Voltage: DC 18V From Adapter With AC 120V/60Hz
Remark: Temp 24 Humi: 37%
Test Standard: FCC 15.247
Tested By: Jim Xu
Reviewed By: Scott He

Horizontal

Critical_Freqs(Fundamental frequency)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2401.960	99.48	-2.39	97.09			peak	100	204
2	2401.960	98.86	-2.39	96.47			AVG	100	204

Critical_Freqs(Suprious Emission out of band)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	4804.000	45.02	2.63	47.65	74.00	-26.35	peak	100	300
2	4804.000	44.24	2.63	46.87	54.00	-7.13	AVG	100	300
3	7206.000	40.15	9.41	49.56	74.00	-24.44	peak	100	160
4 *	7206.000	40.26	9.41	49.67	54.00	-4.33	AVG	100	160

Vertical

Critical_Freqs(Fundamental frequency)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2402.345	97.08	-2.39	94.69			peak	100	237
2	2402.345	94.11	-2.39	91.72			AVG	100	237

Critical_Freqs(Suprious Emission out of band)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	4804.000	43.91	2.63	46.54	74.00	-27.46	peak	100	200
2	4804.000	43.34	2.63	45.97	54.00	-8.03	AVG	100	200
3	7206.000	38.92	9.41	48.33	74.00	-25.67	peak	100	170
4	7206.000	38.57	9.41	47.98	54.00	-6.02	AVG	100	170

EUT Information

EUT Name: M18/M12 Wireless Jobsite Speaker
Model: 2891-20
Test Mode: BR_DH5_Middle channel
Test Voltage: DC 18V From Adapter With AC 120V/60Hz
Remark: Temp 24 Humi: 37%
Test Standard: FCC 15.247
Tested By: Jim Xu
Reviewed By: Scott He

Horizontal

Critical_Freqs(Fundamental frequency)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2441.127	99.62	-2.34	97.28			peak	100	250
2	2441.127	99.57	-2.34	97.23			AVG	100	250

Critical_Freqs(Suprious Emission out of band)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	4882.000	50.76	2.91	53.67	74.00	-20.33	peak	200	180
2 *	4882.000	41.37	2.91	44.28	54.00	-9.72	AVG	200	180
3	7323.000	45.54	8.68	54.22	74.00	-19.78	peak	100	310
4	7323.000	33.29	8.68	41.97	54.00	-12.03	AVG	100	310

Vertical

Critical_Freqs(Fundamental frequency)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2441.077	101.30	-2.34	98.96			peak	115	228
2	2441.077	101.36	-2.34	99.02			AVG	115	228

Critical_Freqs(Suprious Emission out of band)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	4882.000	51.43	2.91	54.34	74.00	-19.66	peak	200	134
2 *	4882.000	41.76	2.91	44.67	54.00	-9.33	AVG	200	134
3	7323.000	45.48	8.68	54.16	74.00	-19.84	peak	100	150
4	7323.000	33.68	8.68	42.36	54.00	-11.64	AVG	100	150

EUT Information

EUT Name: M18/M12 Wireless Jobsite Speaker
 Model: 2891-20
 Test Mode: BR_DH5_High channel
 Test Voltage: DC 18V From Adapter With AC 120V/60Hz
 Remark: Temp 24 Humi: 37%
 Test Standard: FCC 15.247
 Tested By: Jim Xu
 Reviewed By: Scott He

Horizontal

Critical_Freqs(Fundamental frequency)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2479.810	99.41	-2.29	97.12			peak	184	258
2	2479.810	99.44	-2.29	97.15			AVG	184	258

Critical_Freqs(Suprious Emission out of band)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	4960.000	43.82	3.50	47.32	74.00	-26.68	peak	120	200
2	4960.000	43.50	3.50	47.00	54.00	-7.00	AVG	120	200
3	7440.000	42.24	9.88	52.12	74.00	-21.88	peak	100	120
4 *	7440.000	40.24	9.88	50.12	54.00	-3.88	AVG	100	120

Vertical

Critical_Freqs(Fundamental frequency)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2479.810	96.70	-2.29	94.41			peak	100	227
2	2479.810	96.58	-2.29	94.29			AVG	100	227

Critical_Freqs(Suprious Emission out of band)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	4960.000	44.81	3.50	48.31	74.00	-25.69	peak	100	160
2	4960.000	44.17	3.50	47.67	54.00	-6.33	AVG	100	160
3	7440.000	43.34	9.88	53.22	74.00	-20.78	peak	100	130
4 *	7440.000	40.76	9.88	50.64	54.00	-3.36	AVG	100	130

EUT Information

EUT Name: M18/M12 Wireless Jobsite Speaker
Model: 2891-20
Test Mode: EDR_3DH5_Low channel
Test Voltage: DC 18V From Adapter With AC 120V/60Hz
Remark: Temp 24 Humi: 37%
Test Standard: FCC 15.247
Tested By: Jim Xu
Reviewed By: Scott He

Horizontal

Critical_Freqs(Fundamental frequency)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2401.946	102.50	-2.39	100.11			peak	177	260
2	2401.946	97.74	-2.39	95.35			AVG	177	260

Critical_Freqs(Suprious Emission out of band)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	4804.000	50.98	2.63	53.61	74.00	-20.39	peak	120	200
2	4804.000	39.92	2.63	42.55	54.00	-11.45	AVG	120	200
3	7206.000	43.70	9.41	53.11	74.00	-20.89	peak	134	100
4 *	7206.000	34.24	9.41	43.65	54.00	-10.35	AVG	134	100

Vertical

Critical_Freqs(Fundamental frequency)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2401.946	104.57	-2.39	102.18			peak	218	257
2	2401.946	98.60	-2.39	96.21			AVG	218	257

Critical_Freqs(Suprious Emission out of band)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	4804.000	51.49	2.63	54.12	74.00	-19.88	peak	100	152
2	4804.000	41.01	2.63	43.64	54.00	-10.36	AVG	100	152
3	7206.000	45.23	9.41	54.64	74.00	-19.36	peak	100	130
4 *	7206.000	35.26	9.41	44.67	54.00	-9.33	AVG	100	130

EUT Information

EUT Name:	M18/M12 Wireless Jobsite Speaker
Model:	2891-20
Test Mode:	EDR_3DH5_Middle channel
Test Voltage:	DC 18V From Adapter With AC 120V/60Hz
Remark:	Temp 24 Humi: 37%
Test Standard:	FCC 15.247
Tested By:	Jim Xu
Reviewed By:	Scott He

Horizontal

Critical_Freqs(Fundamental frequency)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2440.977	104.41	-2.34	102.07			peak	185	262
2	2440.977	104.41	-2.34	102.07			AVG	185	262

Critical_Freqs(Suprious Emission out of band)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	4882.000	52.43	2.91	55.34	74.00	-18.66	peak	180	310
2	4882.000	42.40	2.91	45.31	54.00	-8.69	AVG	180	310
3	7323.000	46.73	8.68	55.41	74.00	-18.59	peak	230	170
4	7323.000	36.26	8.68	44.94	54.00	-9.06	AVG	230	170

Vertical

Critical_Freqs(Fundamental frequency)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2440.977	103.35	-2.34	101.01			peak	109	227
2	2440.977	103.41	-2.34	101.07			AVG	109	227

Critical_Freqs(Suprious Emission out of band)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	4882.000	52.47	2.91	55.38	74.00	-18.62	peak	160	140
2	4882.000	42.71	2.91	45.62	54.00	-8.38	AVG	160	140
3	7323.000	46.55	8.68	55.23	74.00	-18.77	peak	200	230
4	7323.000	35.30	8.68	43.98	54.00	-10.02	AVG	200	230

EUT Information

EUT Name: M18/M12 Wireless Jobsite Speaker
 Model: 2891-20
 Test Mode: EDR_3DH5_High channel
 Test Voltage: DC 18V From Adapter With AC 120V/60Hz
 Remark: Temp 24 Humi: 37%
 Test Standard: FCC 15.247
 Tested By: Jim Xu
 Reviewed By: Scott He

Horizontal

Critical_Freqs(Fundamental frequency)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2479.960	102.63	-2.29	100.34			peak	273	252
2	2479.960	102.55	-2.29	100.26			AVG	273	252

Critical_Freqs(Suprious Emission out of band)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	4960.000	45.76	3.50	49.26	74.00	-24.74	peak	100	100
2	4960.000	44.80	3.50	48.30	54.00	-5.70	AVG	100	100
3	7440.000	45.12	9.88	55.00	74.00	-19.00	peak	100	130
4 *	7440.000	40.12	9.88	50.00	54.00	-4.00	AVG	100	130

Vertical

Critical_Freqs(Fundamental frequency)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2479.960	99.46	-2.29	97.17			peak	158	229
2	2479.960	99.44	-2.29	97.15			AVG	158	229

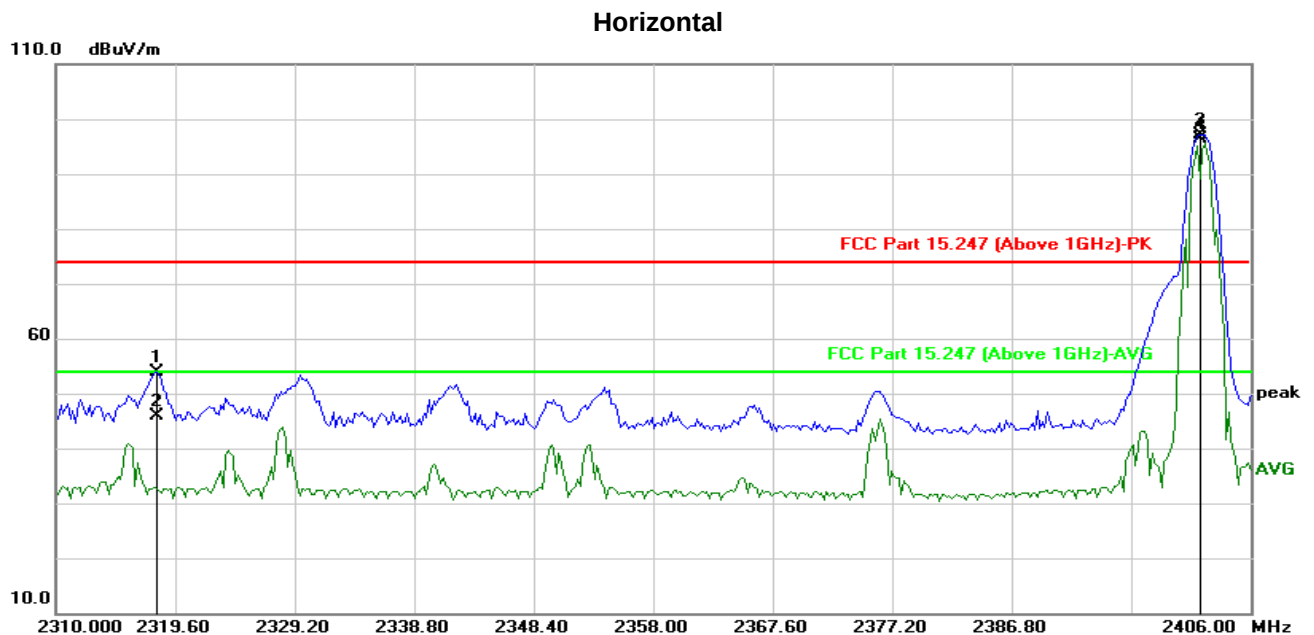
Critical_Freqs(Suprious Emission out of band)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	4960.000	49.65	3.50	53.15	74.00	-20.85	peak	100	232
2	4960.000	49.06	3.50	52.56	54.00	-1.44	AVG	100	232
3	7440.000	41.46	9.88	51.34	74.00	-22.66	peak	100	150
4 *	7440.000	40.12	9.88	50.00	54.00	-4.00	AVG	100	150

Appendix B.8: Test Results of Radiated Emissions in Restricted Bands

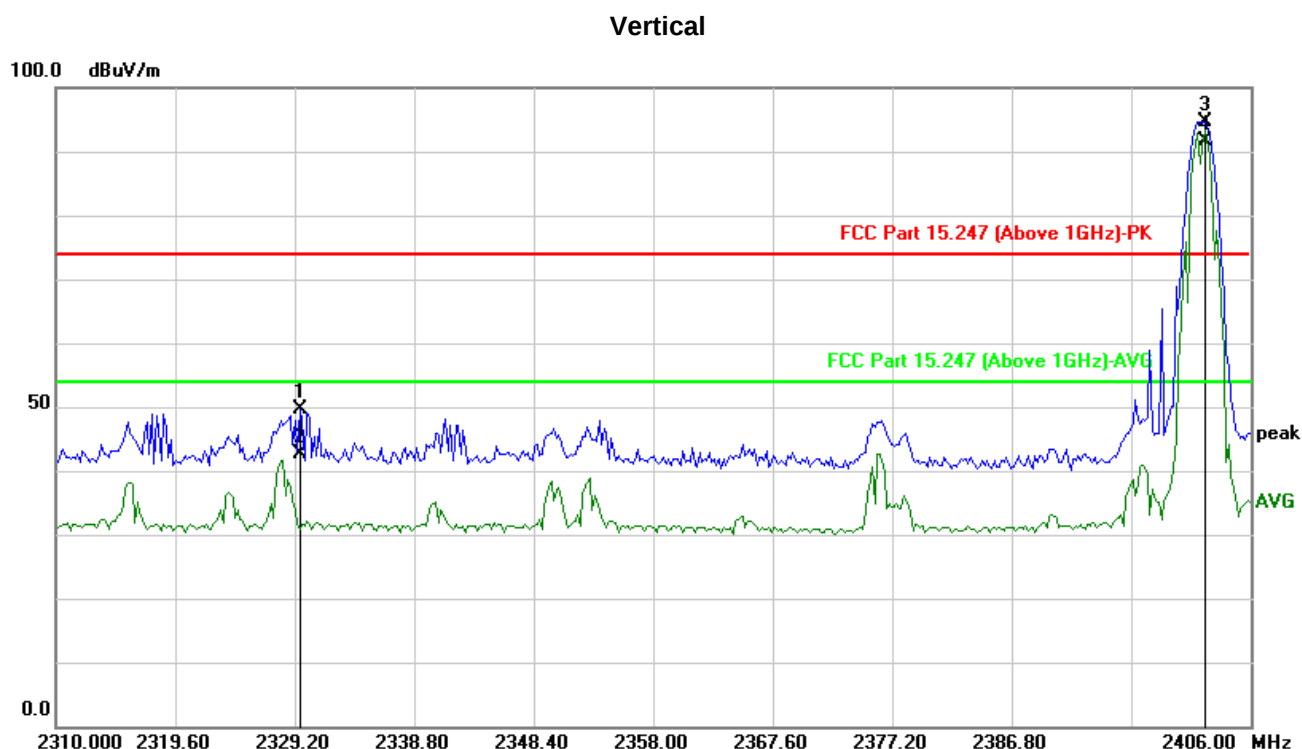
EUT Information

EUT Name: M18/M12 Wireless Jobsite Speaker
Model: 2891-20
Test Mode: BR_DH5_Low channel
Test Voltage: DC 18V From Adapter With AC 120V/60Hz
Remark: Temp 24 Humi: 37%
Test Standard: FCC 15.247
Tested By: Jim Xu
Reviewed By: Scott He



Critical_Freqs(Fundamental frequency & Bandedge)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2318.080	56.44	-2.48	53.96	74.00	-20.04	peak	100	204
2	2318.080	48.33	-2.48	45.85	54.00	-8.15	AVG	100	204

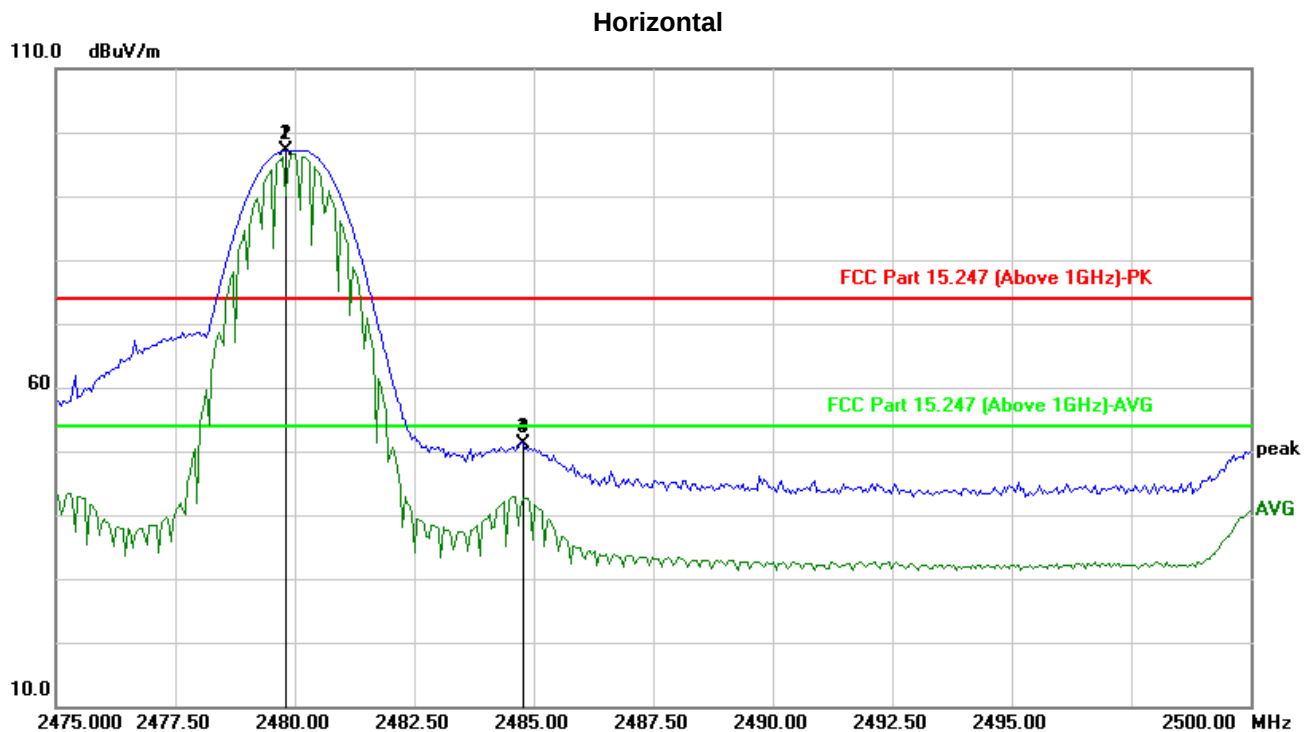


Critical_Freqs(Fundamental frequency & Bandedge)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2329.623	52.09	-2.46	49.63	74.00	-24.37	peak	100	237
2	2329.623	45.21	-2.46	42.75	54.00	-11.25	AVG	100	200

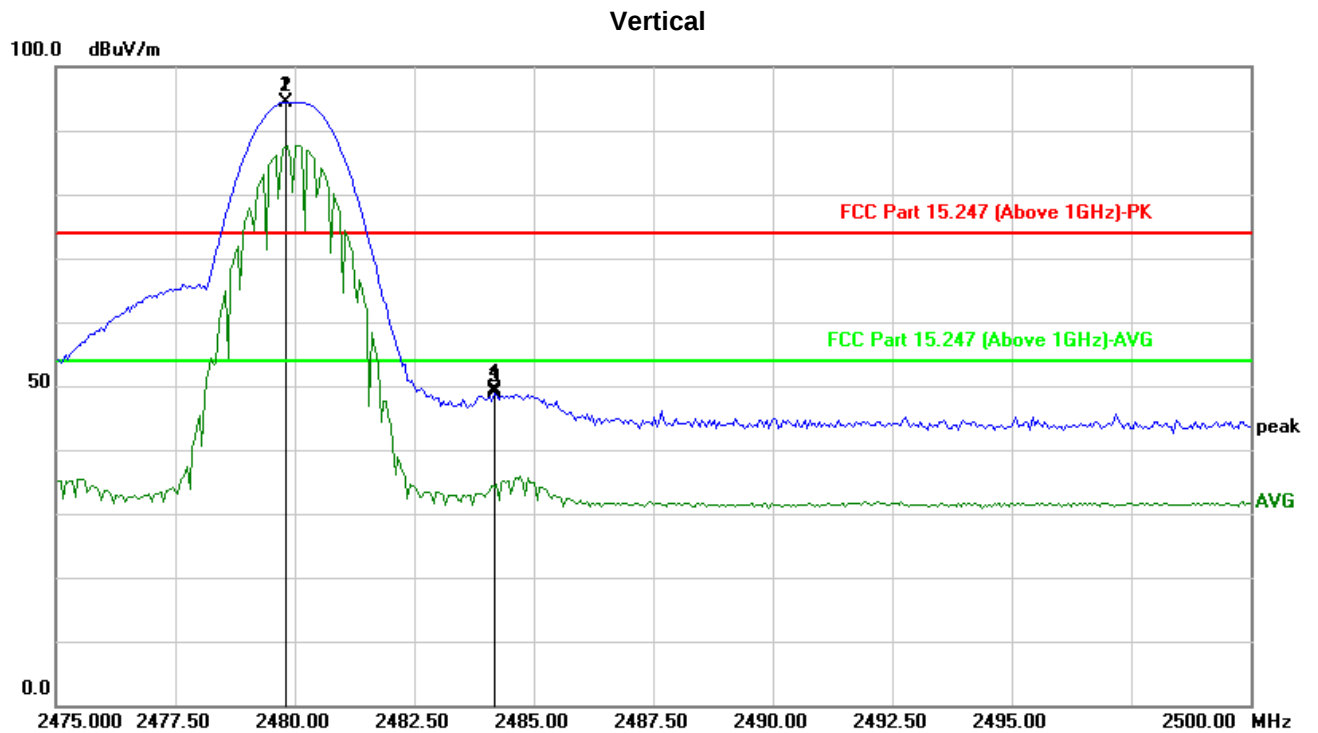
EUT Information

EUT Name:	M18/M12 Wireless Jobsite Speaker
Model:	2891-20
Test Mode:	BR_DH5_High channel
Test Voltage:	DC 18V From Adapter With AC 120V/60Hz
Remark:	Temp 24 Humi: 37%
Test Standard:	FCC 15.247
Tested By:	Jim Xu
Reviewed By:	Scott He



Critical_Freqs(Fundamental frequency & Bandedge)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2484.769	53.53	-2.28	51.25	74.00	-22.75	peak	184	258
2	2484.769	53.47	-2.28	51.19	54.00	-2.81	AVG	184	258

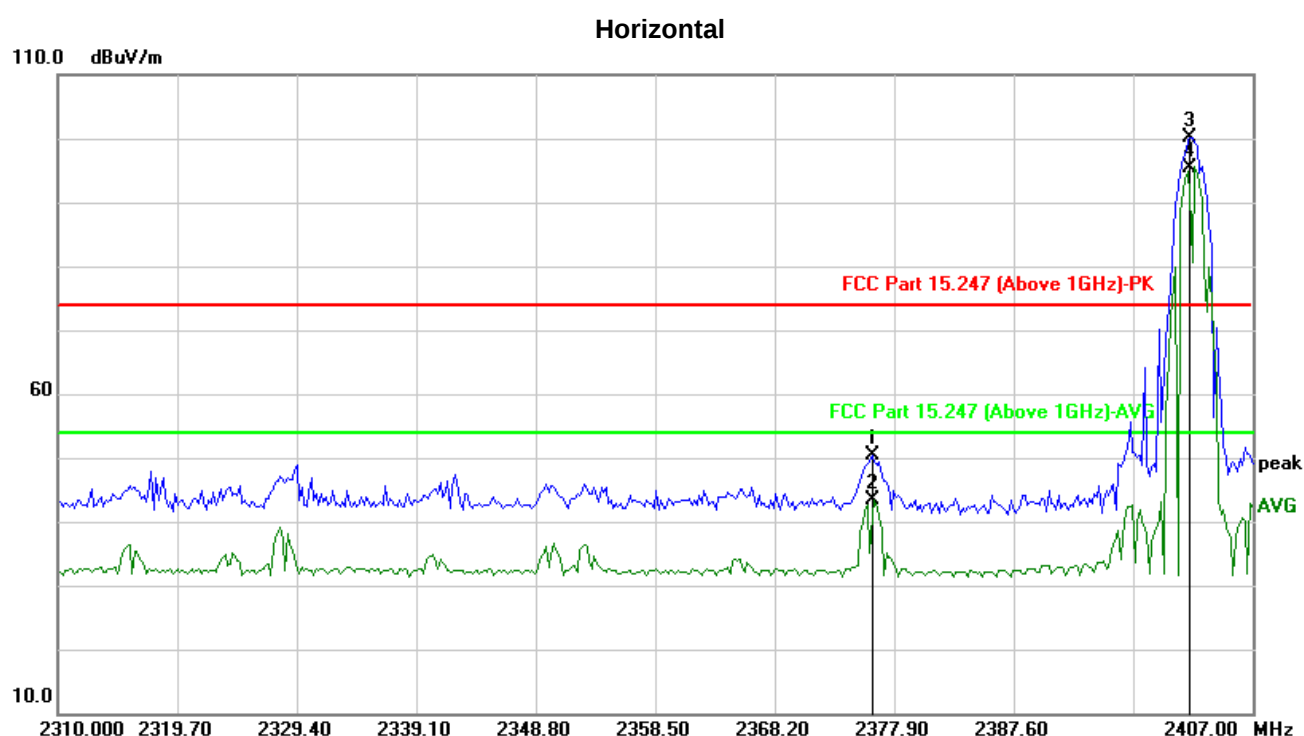


Critical_Freqs(Fundamental frequency & Bandedge)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2484.168	51.11	-2.29	48.82	74.00	-25.18	peak	100	227
2	2484.168	51.58	-2.29	49.29	54.00	-4.71	AVG	100	227

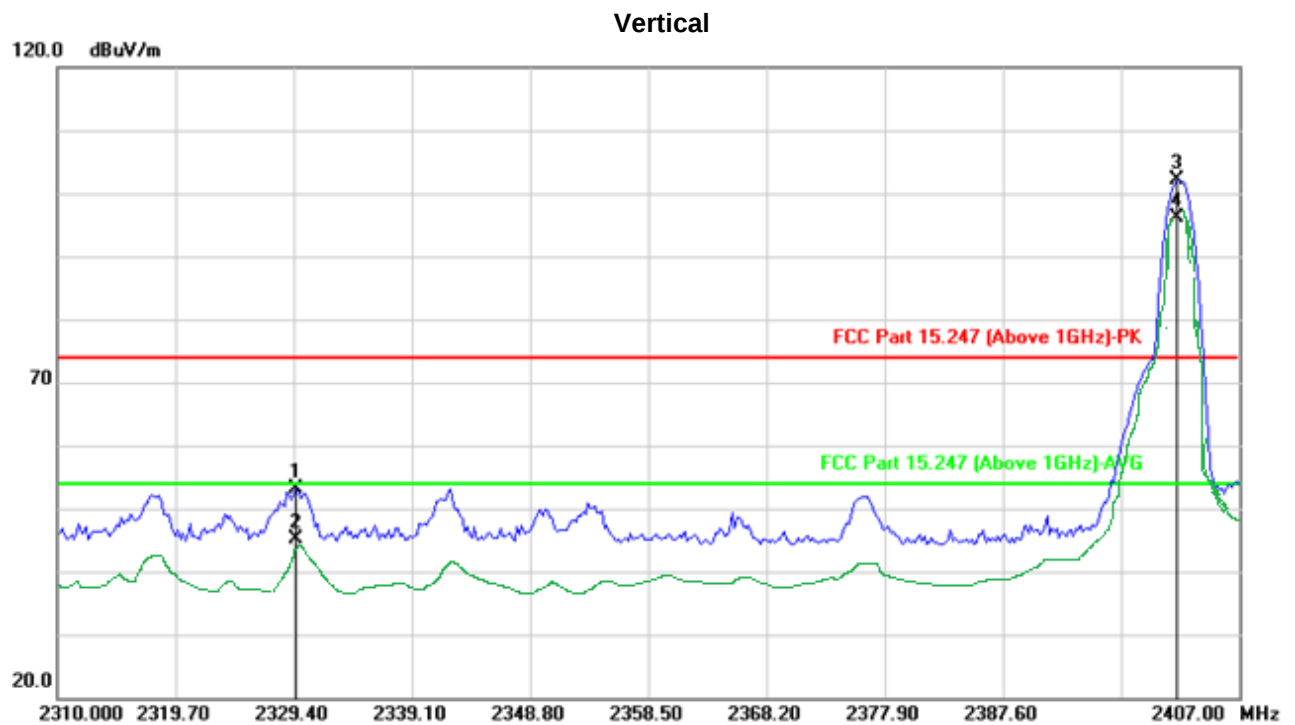
EUT Information

EUT Name:	M18/M12 Wireless Jobsite Speaker
Model:	2891-20
Test Mode:	EDR_3DH5_Low channel
Test Voltage:	DC 18V From Adapter With AC 120V/60Hz
Remark:	Temp 24 Humi: 37%
Test Standard:	FCC 15.247
Tested By:	Jim Xu
Reviewed By:	Scott He



Critical_Freqs(Fundamental frequency & Bandedge)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2376.092	52.73	-2.41	50.32	74.00	-23.68	peak	177	260
2	2376.092	45.71	-2.41	43.30	54.00	-10.70	AVG	177	260

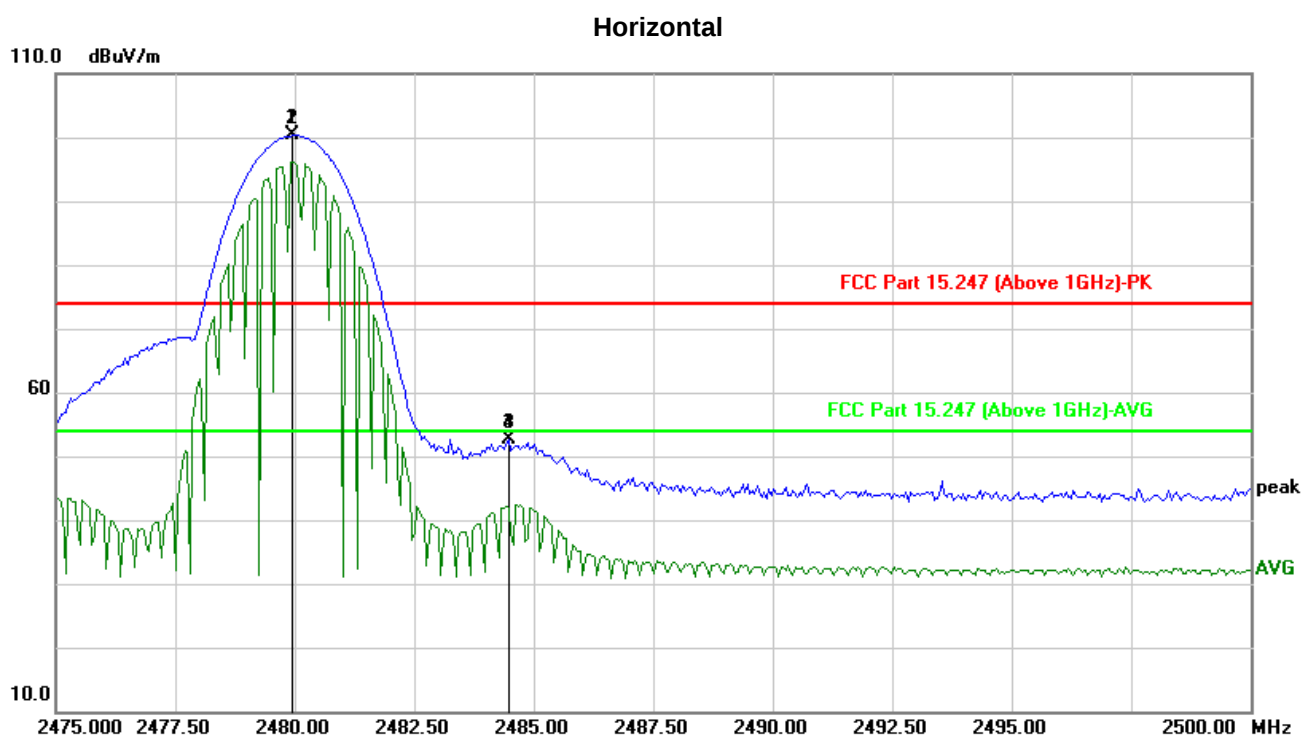


Critical_Freqs(Fundamental frequency & Bandedge)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2329.633	55.52	-2.46	53.06	74.00	-20.94	peak	218	257
2	2329.633	47.54	-2.46	45.08	54.00	-8.92	AVG	218	257

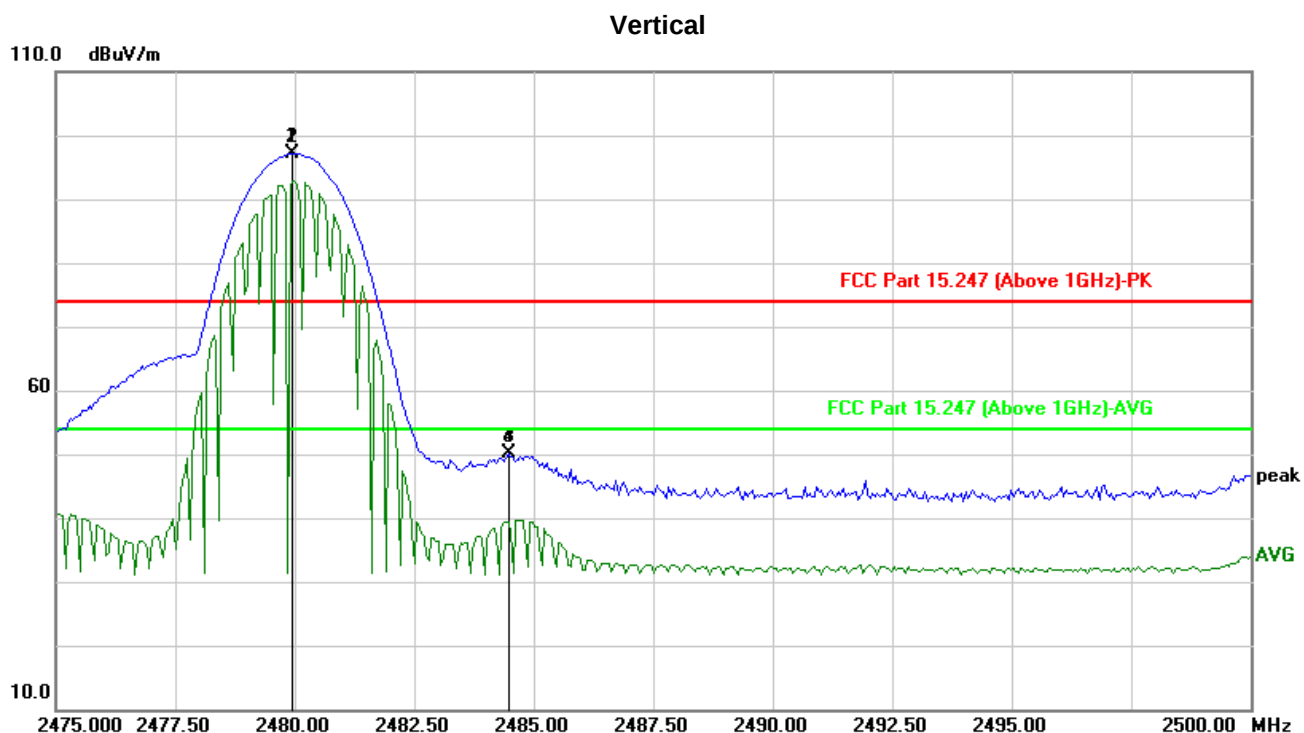
EUT Information

EUT Name:	M18/M12 Wireless Jobsite Speaker
Model:	2891-20
Test Mode:	EDR_3DH5_High channel
Test Voltage:	DC 18V From Adapter With AC 120V/60Hz
Remark:	Temp 24 Humi: 37%
Test Standard:	FCC 15.247
Tested By:	Jim Xu
Reviewed By:	Scott He



Critical_Freqs(Fundamental frequency & Bandedge)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2484.469	54.84	-2.28	52.56	74.00	-21.44	peak	273	252
2 *	2484.469	54.84	-2.28	52.56	54.00	-1.44	AVG	273	252



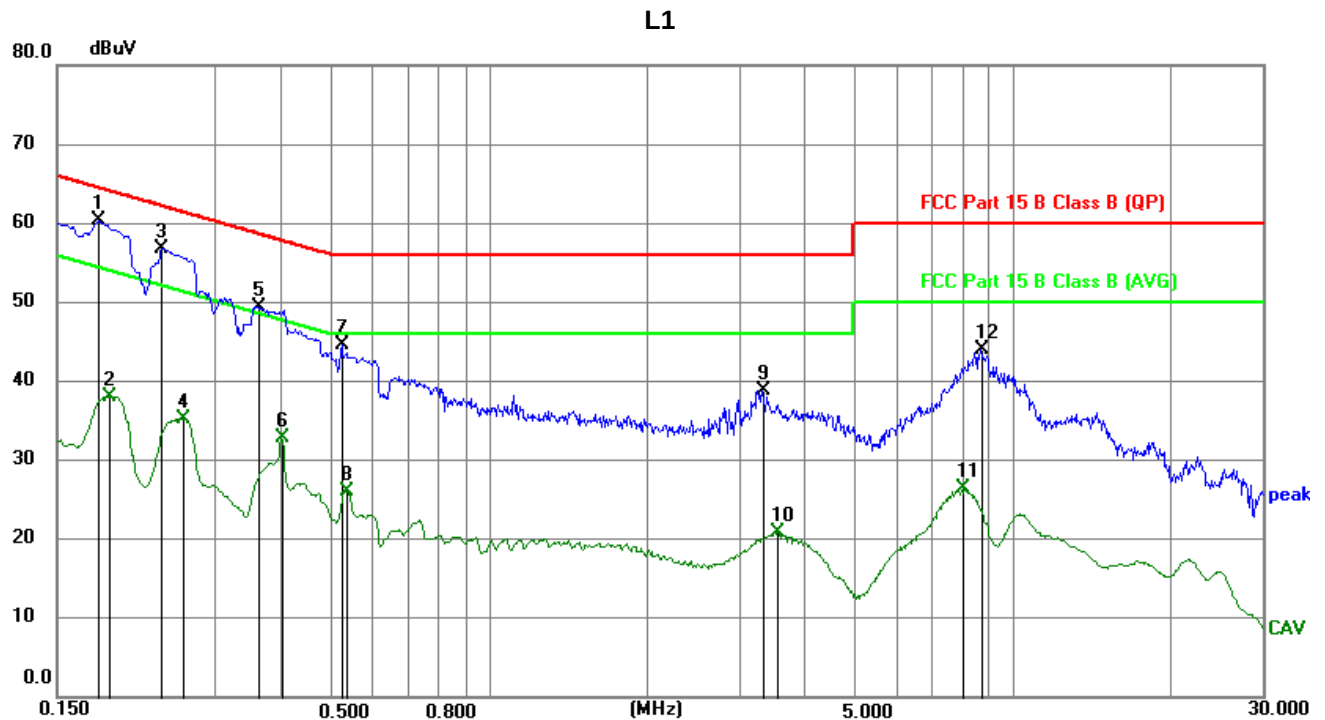
Critical_Freqs(Fundamental frequency & Bandedge)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	2484.469	52.52	-2.28	50.24	74.00	-23.76	peak	158	229
2	2484.469	52.37	-2.28	50.09	54.00	-3.91	AVG	158	229

Appendix B.9: Test Results of Conducted Emission

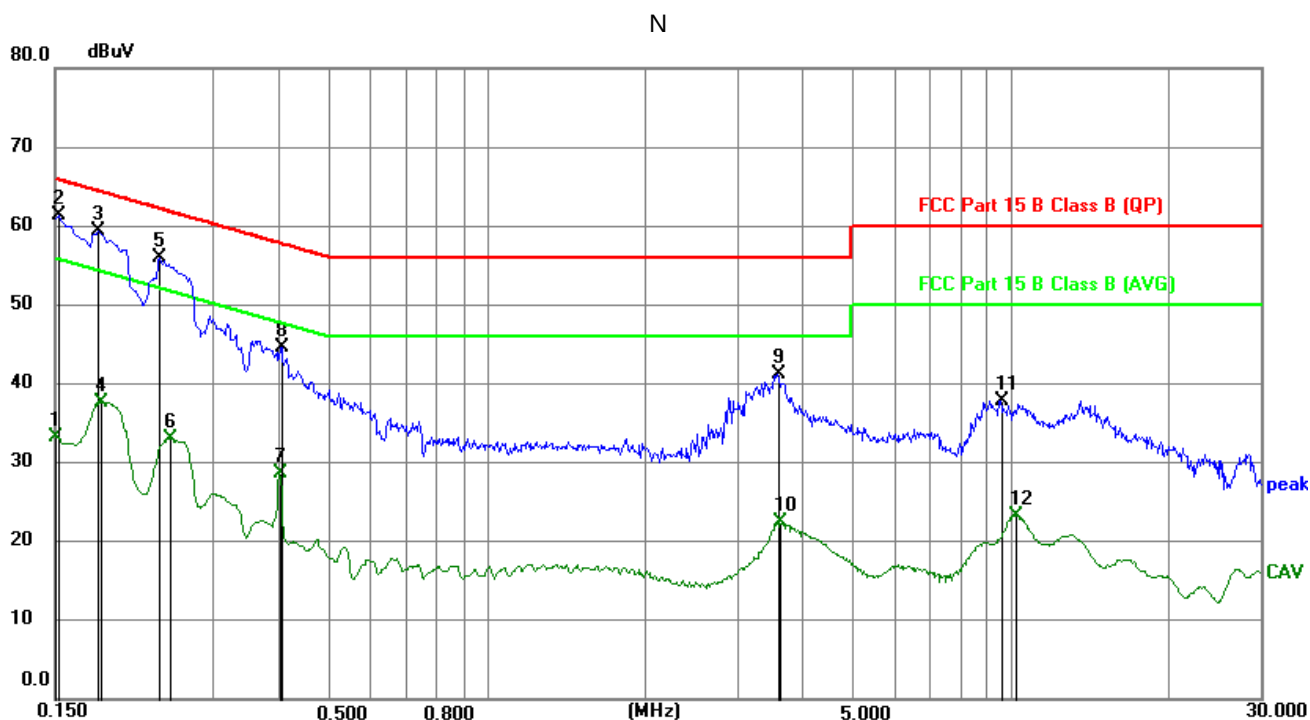
EUT Information

EUT Name: M18/M12 Wireless Jobsite Speaker
Model: 2891-20
Test mode: BR_DH5_Hop channel
Test Voltage: DC 18V From Adapter With AC 120V/60Hz
Test By: Jim Xu
Review By: Scott He



Critical_Freqs

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1793	50.52	9.76	60.28	64.52	-4.24	peak
2	0.1883	28.33	9.76	38.09	54.11	-16.02	AVG
3	0.2378	47.03	9.76	56.79	62.17	-5.38	peak
4	0.2602	25.55	9.76	35.31	51.43	-16.12	AVG
5	0.3615	39.69	9.74	49.43	58.69	-9.26	peak
6	0.4020	23.07	9.72	32.79	47.81	-15.02	AVG
7	0.5257	34.82	9.77	44.59	56.00	-11.41	peak
8	0.5370	16.36	9.77	26.13	46.00	-19.87	AVG
9	3.3450	29.19	9.63	38.82	56.00	-17.18	peak
10	3.5633	11.26	9.64	20.90	46.00	-25.10	AVG
11	8.0543	16.55	9.86	26.41	50.00	-23.59	AVG
12	8.7090	34.14	9.94	44.08	60.00	-15.92	peak



Critical_Freqs

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	23.37	9.78	33.15	56.00	-22.85	AVG
2	0.1522	51.49	9.78	61.27	65.88	-4.61	peak
3	0.1815	49.51	9.76	59.27	64.42	-5.15	peak
4	0.1838	27.90	9.76	37.66	54.31	-16.65	AVG
5	0.2378	46.18	9.76	55.94	62.17	-6.23	peak
6	0.2490	23.29	9.76	33.05	51.79	-18.74	AVG
7	0.4020	18.86	9.72	28.58	47.81	-19.23	AVG
8	0.4065	34.80	9.72	44.52	57.72	-13.20	peak
9	3.5948	31.46	9.64	41.10	56.00	-14.90	peak
10	3.6285	12.78	9.64	22.42	46.00	-23.58	AVG
11	9.5639	27.89	9.99	37.88	60.00	-22.12	peak
12	10.2255	13.26	10.02	23.28	50.00	-26.72	AVG