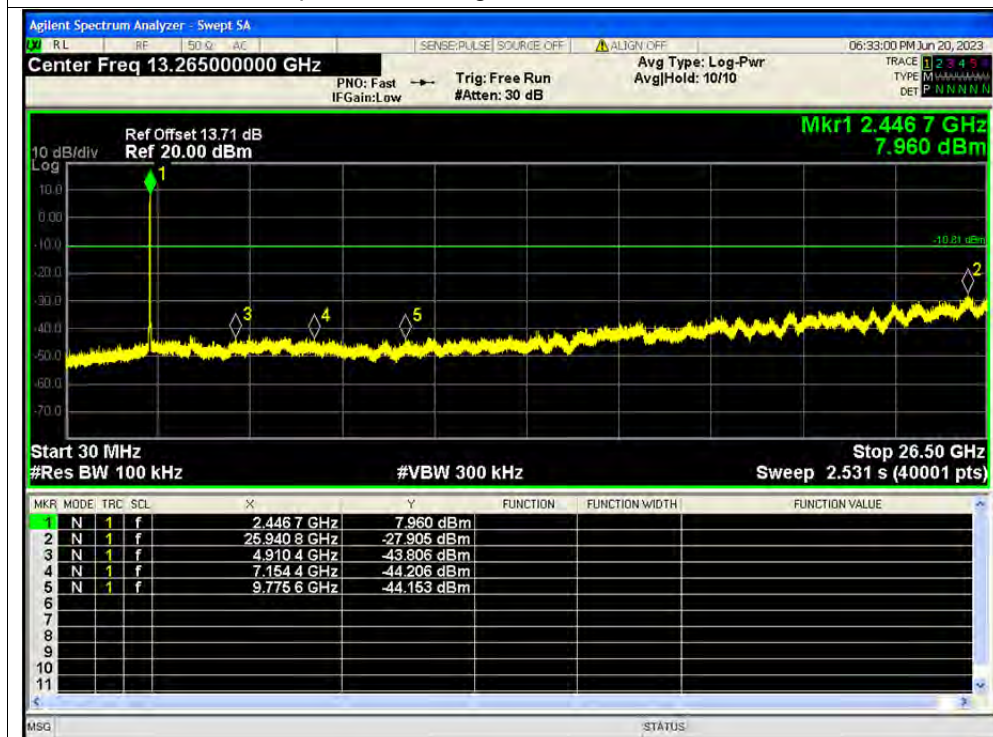


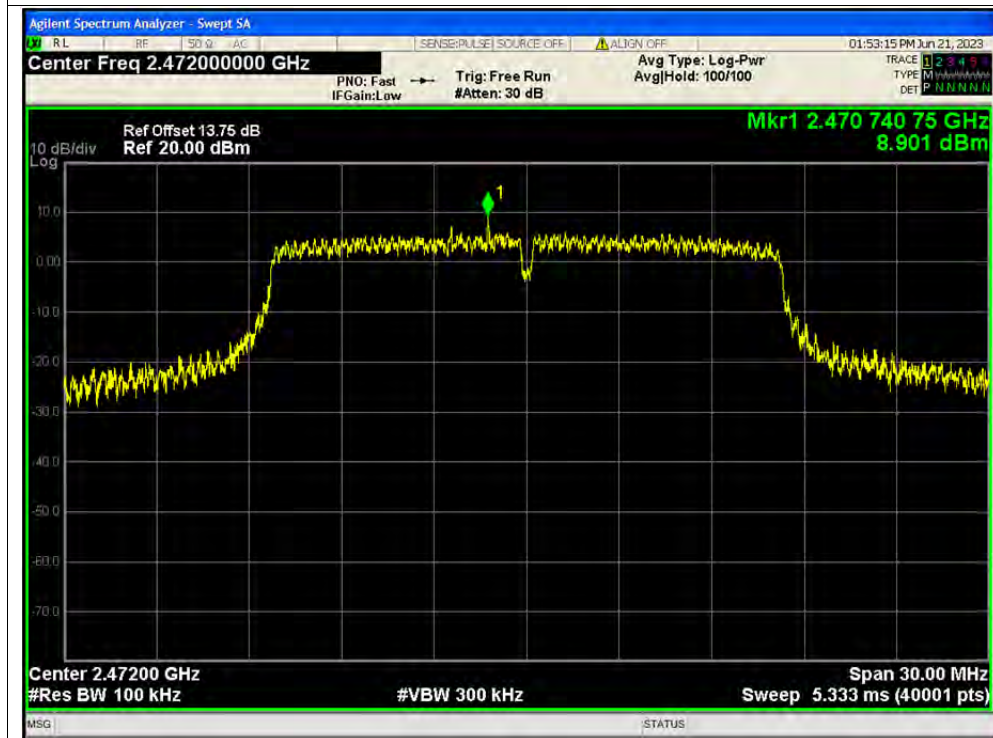
Tx. Spurious NVNT g 2442MHz Ant1 Ref



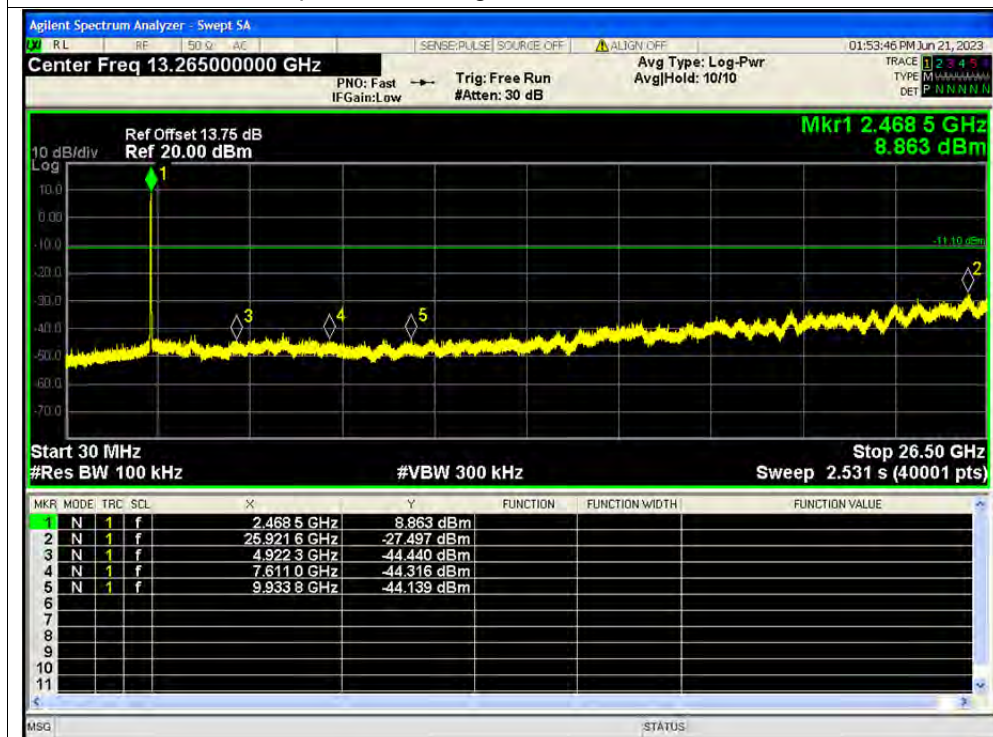
Tx. Spurious NVNT g 2442MHz Ant1 Emission



Tx. Spurious NVNT g 2472MHz Ant1 Ref



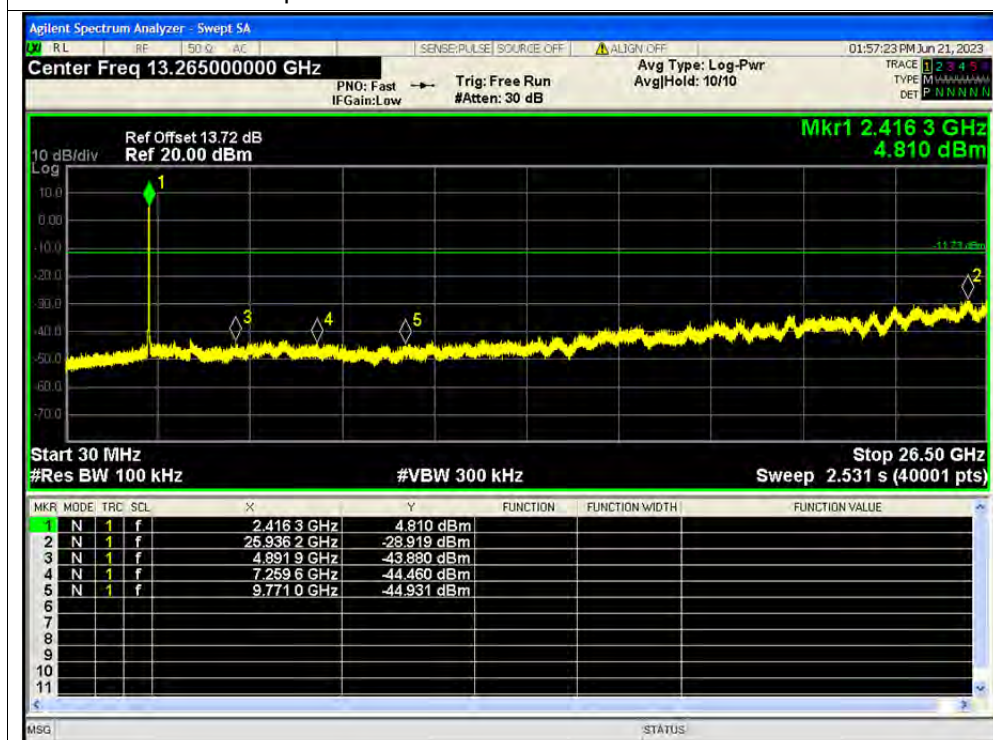
Tx. Spurious NVNT g 2472MHz Ant1 Emission



Tx. Spurious NVNT n20 2412MHz Ant1 Ref



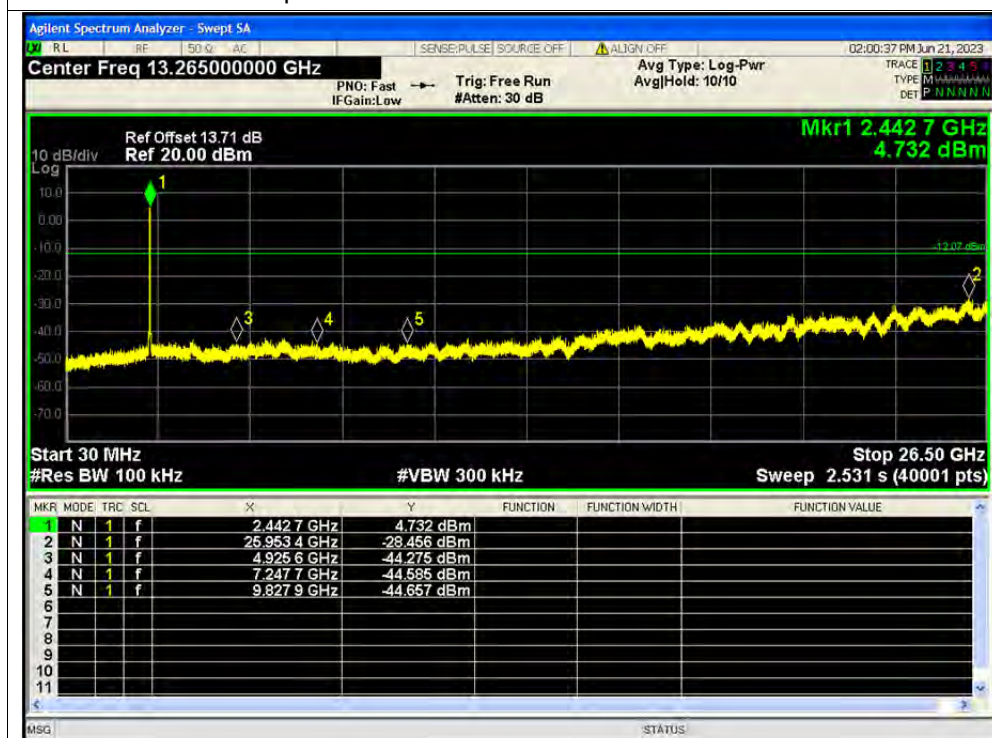
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Tx. Spurious NVNT n20 2442MHz Ant1 Ref



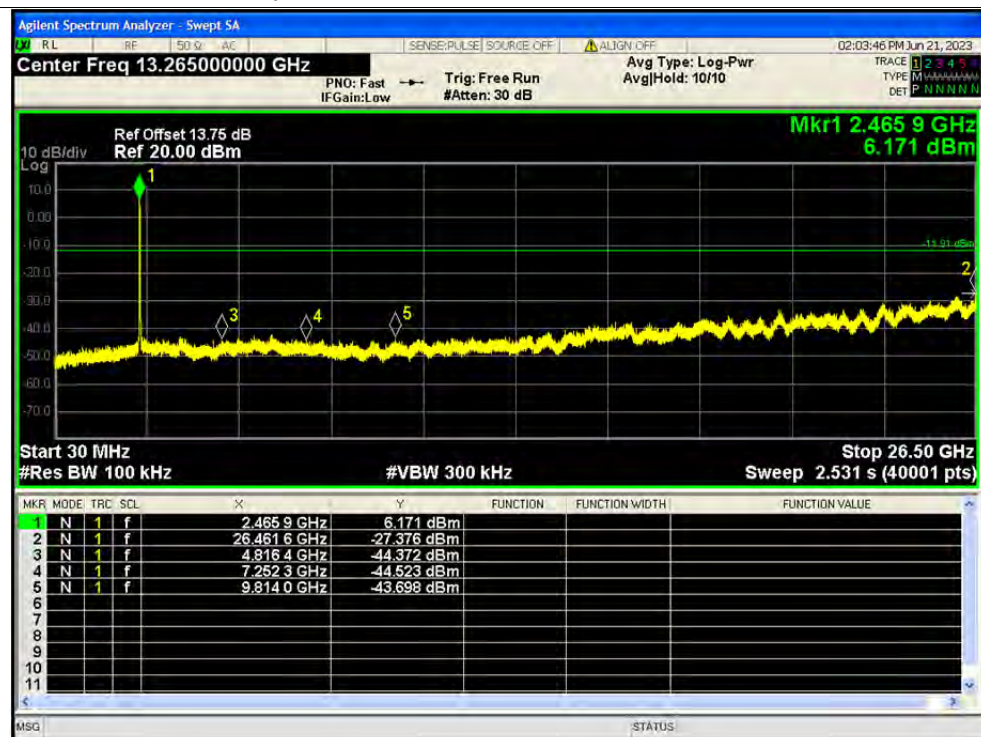
Tx. Spurious NVNT n20 2442MHz Ant1 Emission



Tx. Spurious NVNT n20 2472MHz Ant1 Ref

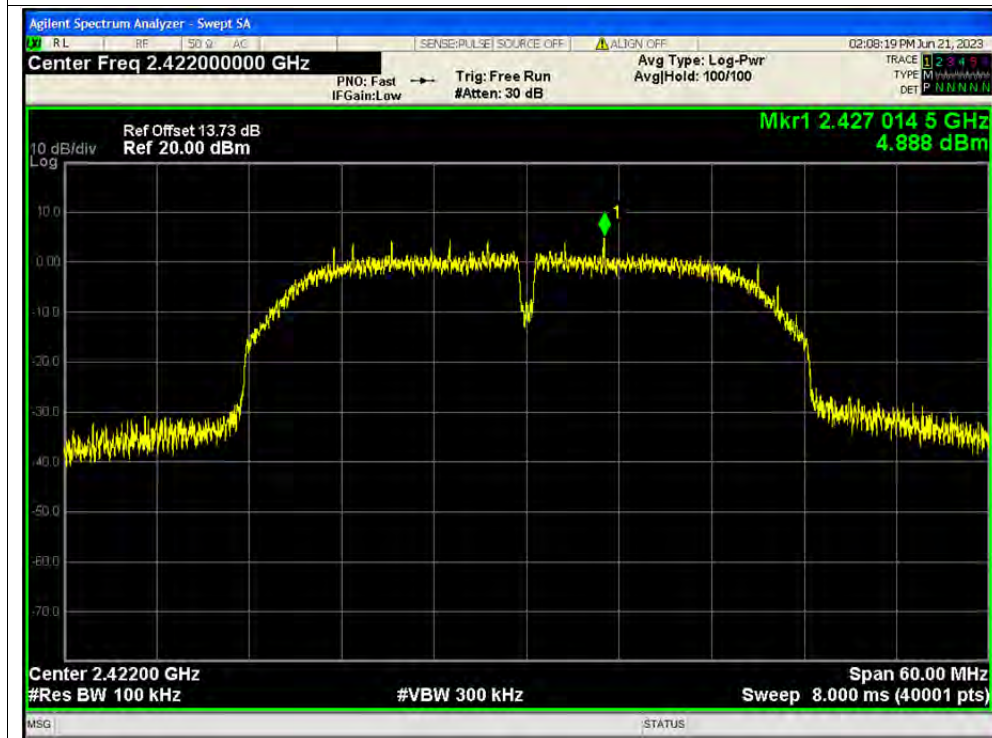


Tx. Spurious NVNT n20 2472MHz Ant1 Emission

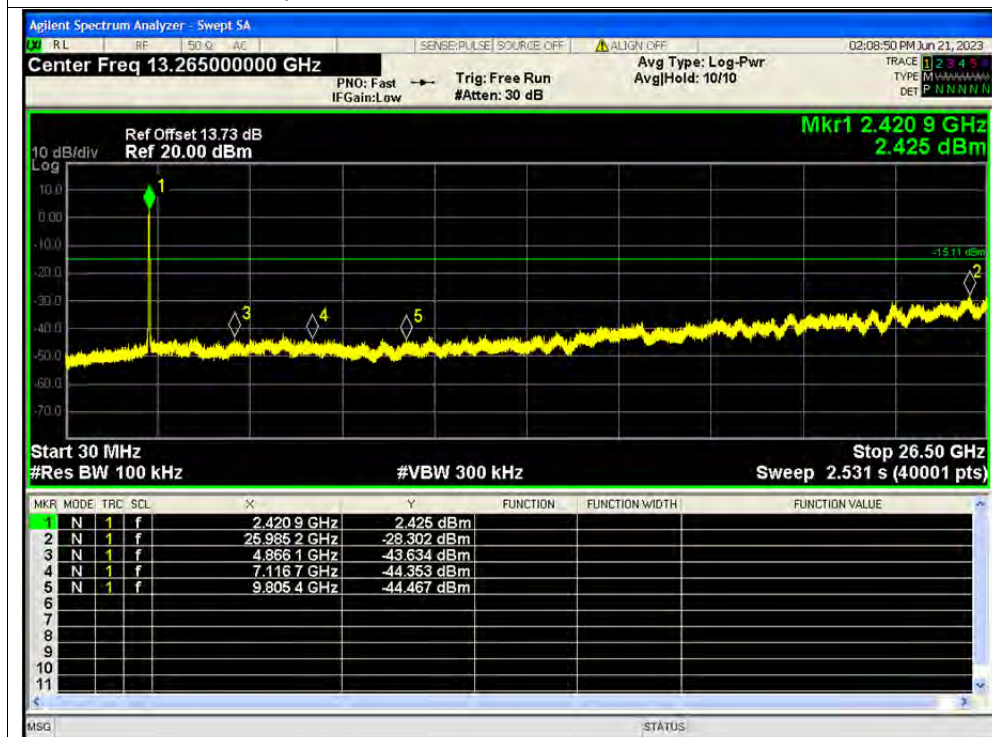




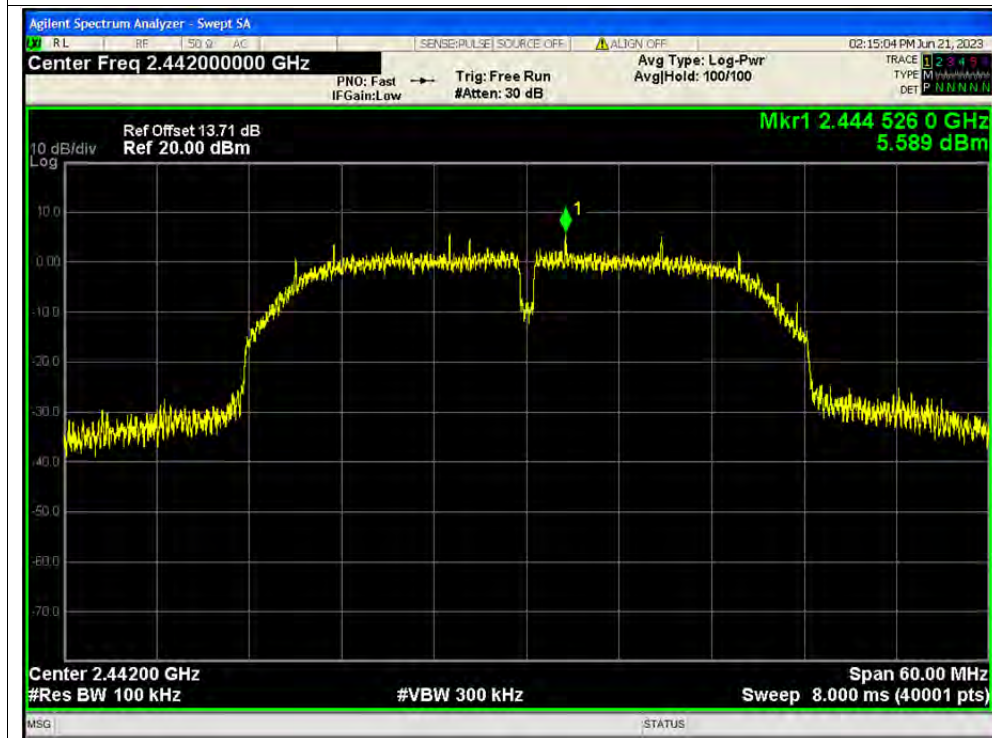
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



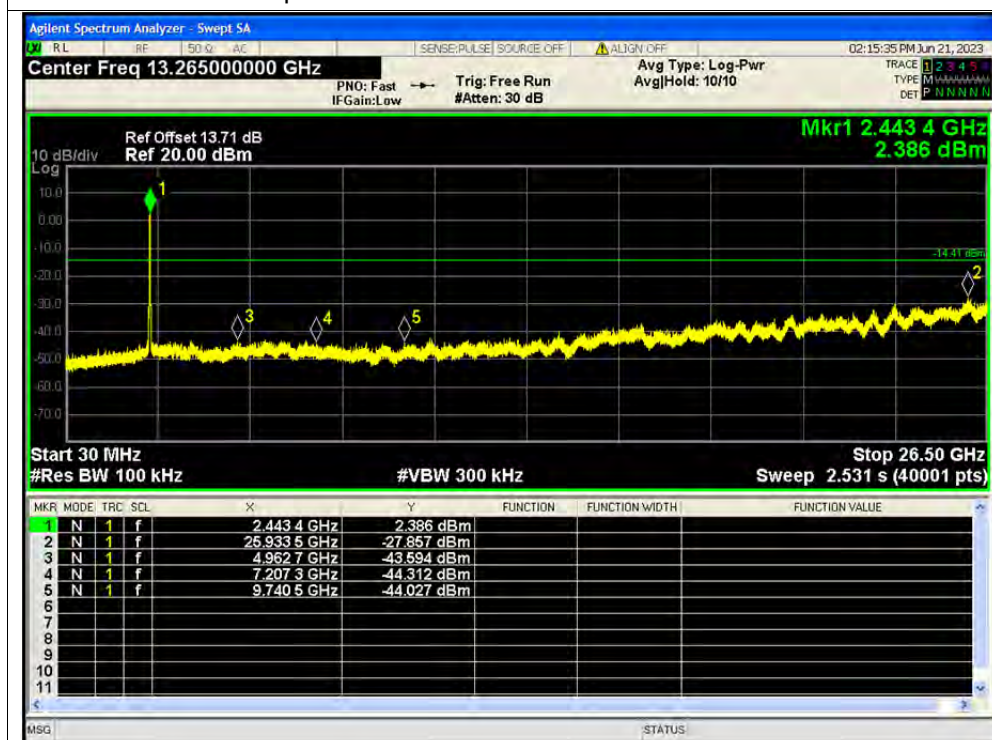
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



Tx. Spurious NVNT n40 2442MHz Ant1 Ref



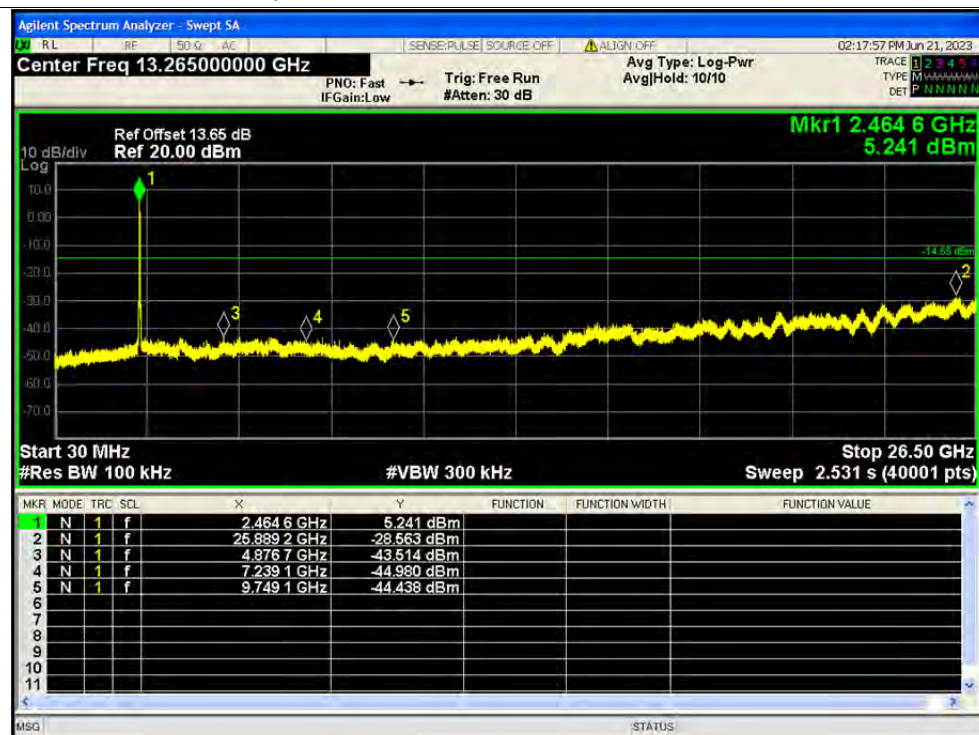
Tx. Spurious NVNT n40 2442MHz Ant1 Emission



Tx. Spurious NVNT n40 2462MHz Ant1 Ref



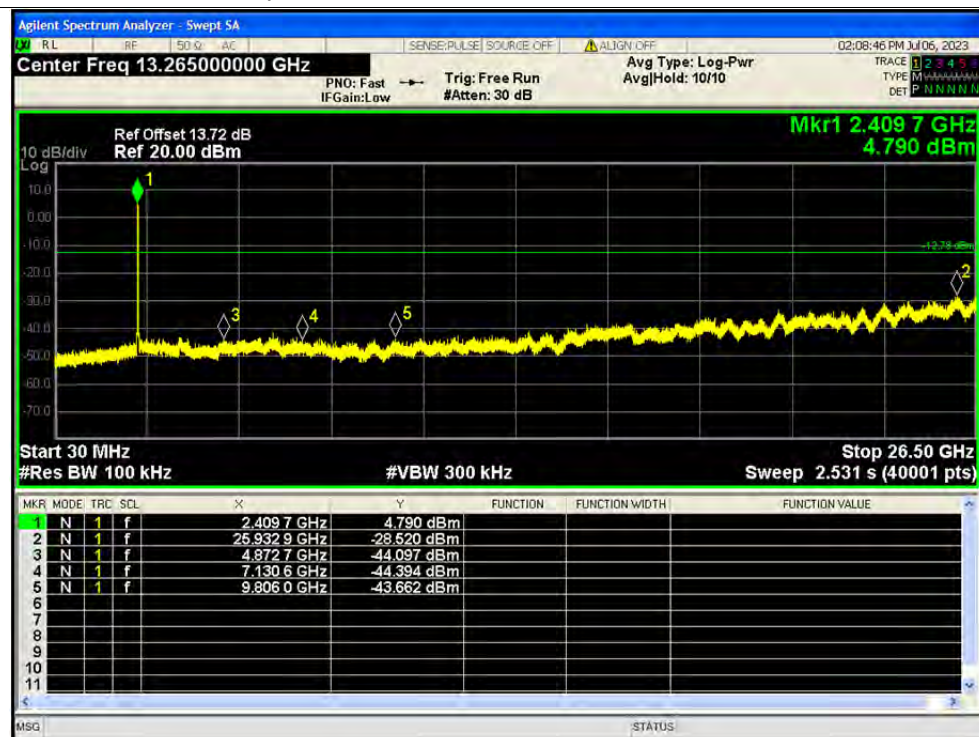
Tx. Spurious NVNT n40 2462MHz Ant1 Emission



Tx. Spurious NVNT ax20 2412MHz Ant1 Ref



Tx. Spurious NVNT ax20 2412MHz Ant1 Emission

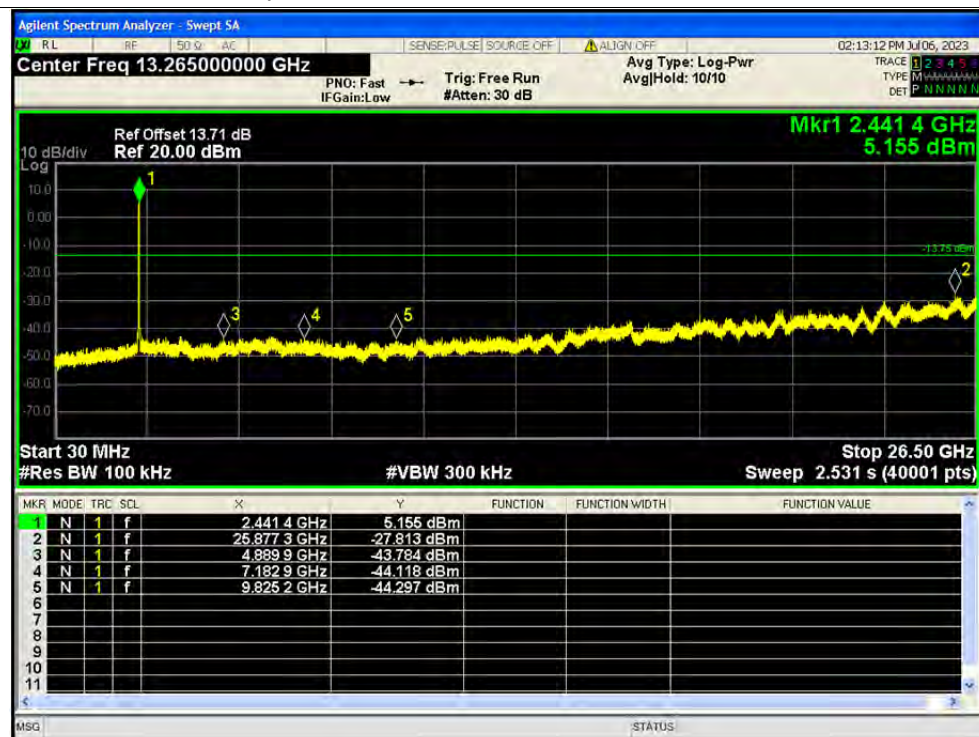




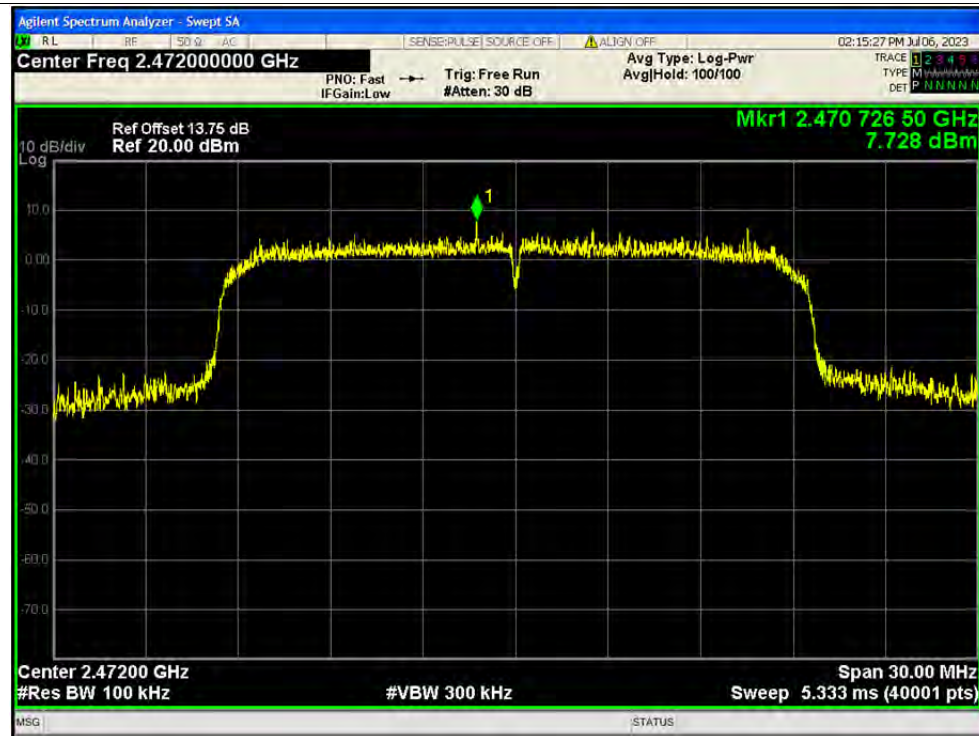
Tx. Spurious NVNT ax20 2442MHz Ant1 Ref



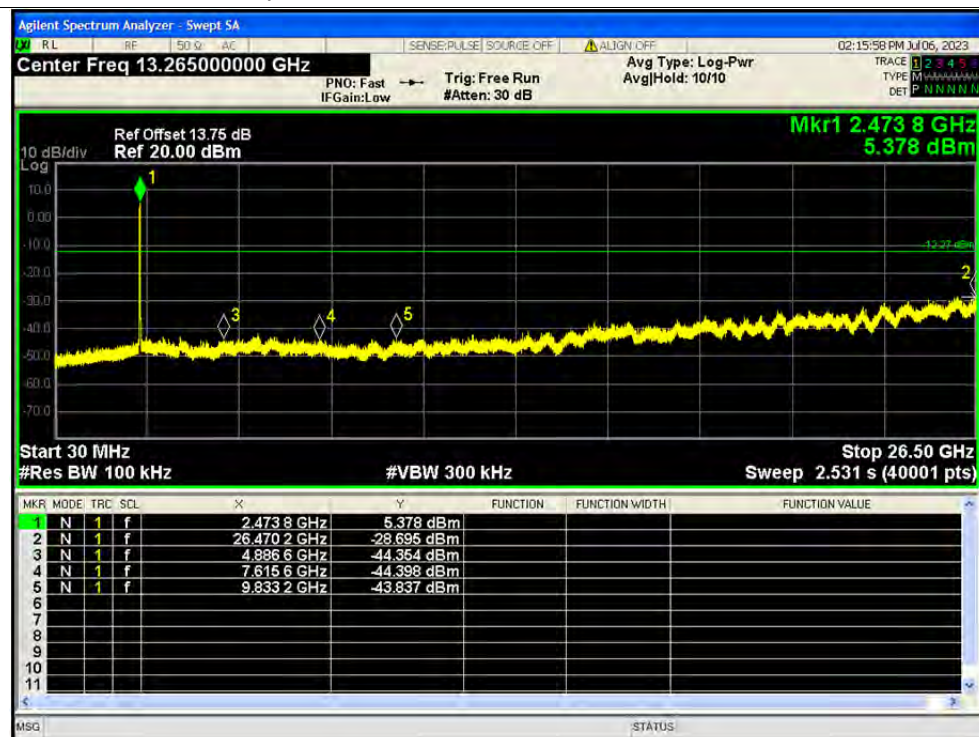
Tx. Spurious NVNT ax20 2442MHz Ant1 Emission



Tx. Spurious NVNT ax20 2472MHz Ant1 Ref



Tx. Spurious NVNT ax20 2472MHz Ant1 Emission



**A.6. Band Edge**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.32	-20	Pass
NVNT	b	2472	Ant1	-36.42	-20	Pass
NVNT	g	2412	Ant1	-28.83	-20	Pass
NVNT	g	2472	Ant1	-25.17	-20	Pass
NVNT	n20	2412	Ant1	-31.09	-20	Pass
NVNT	n20	2472	Ant1	-28.09	-20	Pass
NVNT	n40	2422	Ant1	-35.9	-20	Pass
NVNT	n40	2462	Ant1	-31.41	-20	Pass
NVNT	ax20	2412	Ant1	-32.56	-20	Pass
NVNT	ax20	2472	Ant1	-28.6	-20	Pass

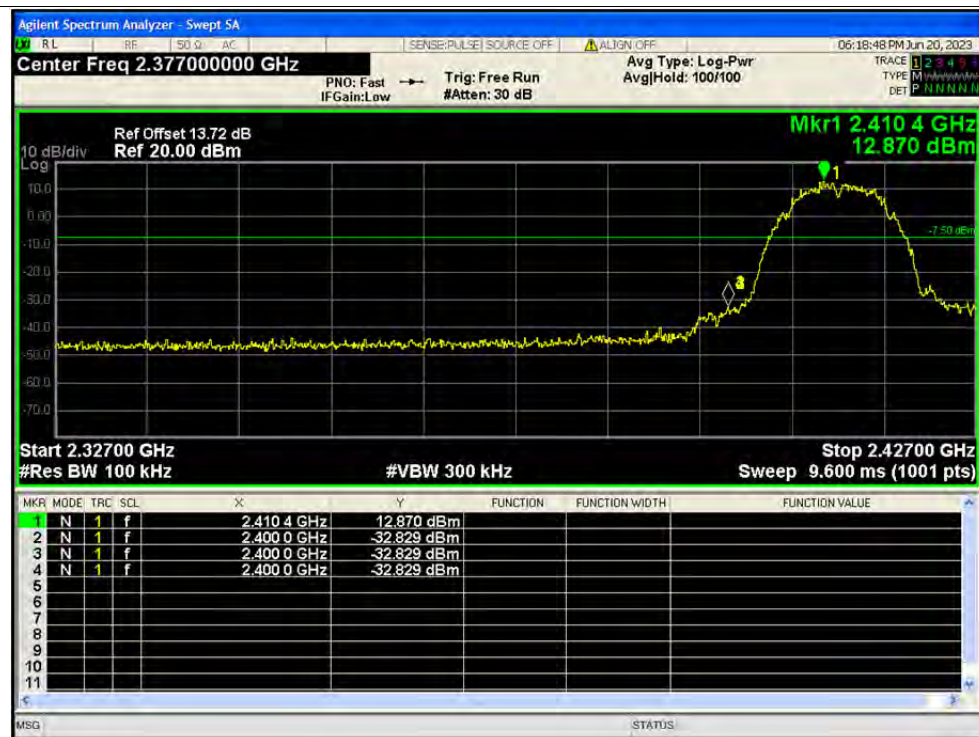


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



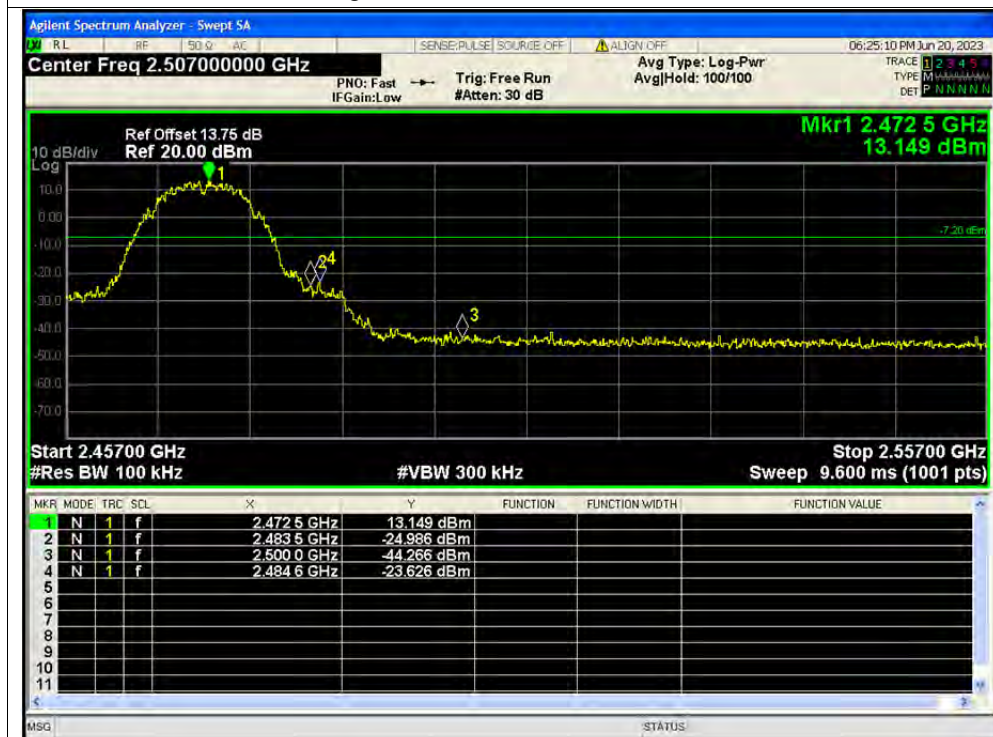
Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2472MHz Ant1 Ref



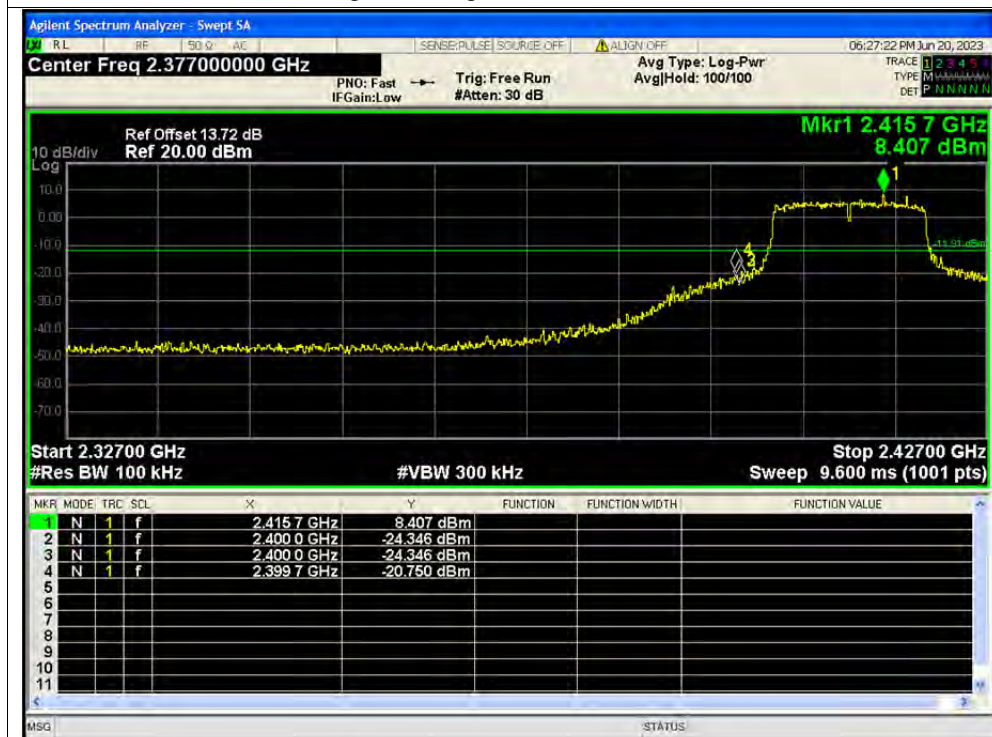
Band Edge NVNT b 2472MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2472MHz Ant1 Ref



Band Edge NVNT g 2472MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2472MHz Ant1 Ref



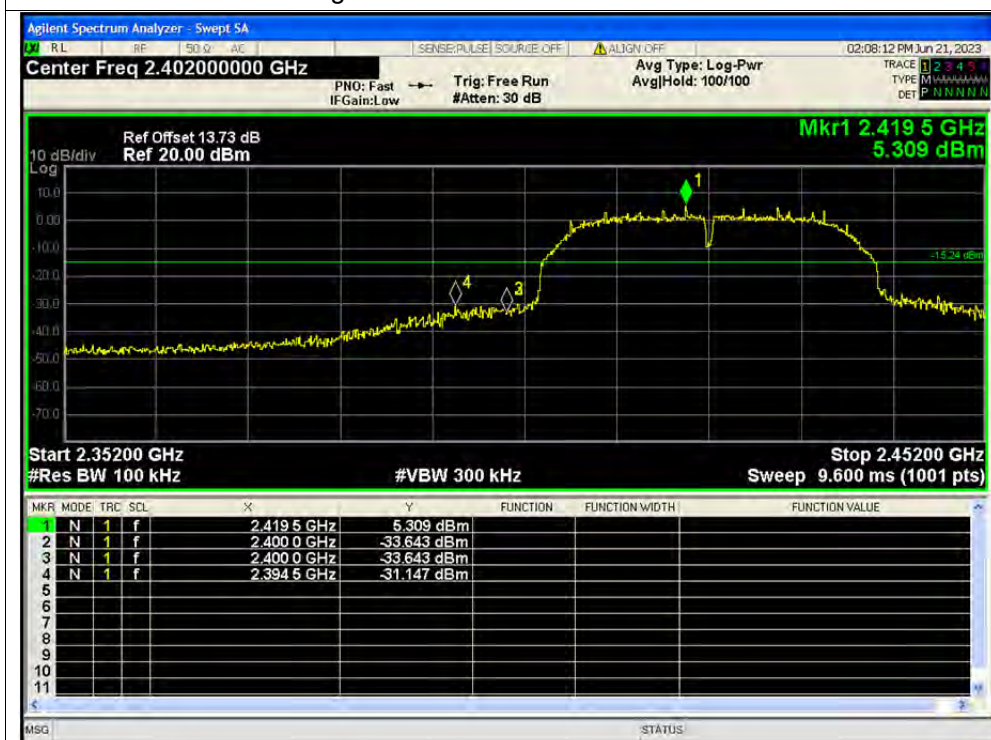
Band Edge NVNT n20 2472MHz Ant1 Emission



Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2462MHz Ant1 Ref



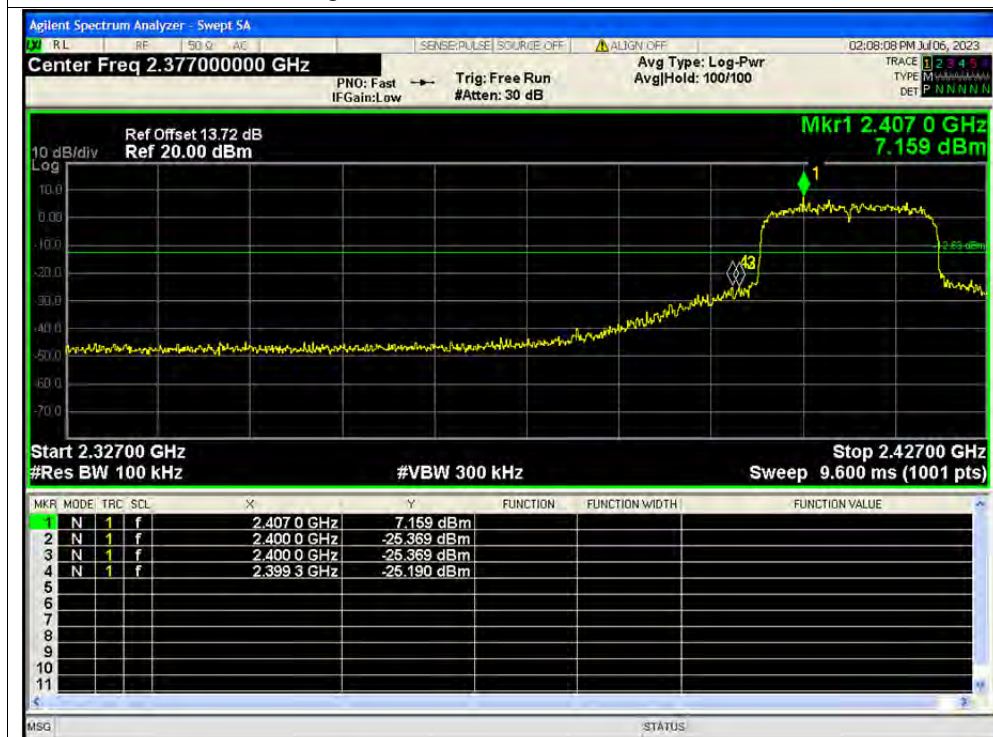
Band Edge NVNT n40 2462MHz Ant1 Emission



Band Edge NVNT ax20 2412MHz Ant1 Ref



Band Edge NVNT ax20 2412MHz Ant1 Emission



Band Edge NVNT ax20 2472MHz Ant1 Ref



Band Edge NVNT ax20 2472MHz Ant1 Emission



**A.7. Power Spectral Density**

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-1.01	0	-1.01	8	Pass
NVNT	b	2442	Ant1	0.92	0	0.92	8	Pass
NVNT	b	2472	Ant1	-1.13	0	-1.13	8	Pass
NVNT	g	2412	Ant1	-5.66	0	-5.66	8	Pass
NVNT	g	2442	Ant1	-5.58	0	-5.58	8	Pass
NVNT	g	2472	Ant1	-5.99	0	-5.99	8	Pass
NVNT	n20	2412	Ant1	-6.99	0	-6.99	8	Pass
NVNT	n20	2442	Ant1	-6.48	0	-6.48	8	Pass
NVNT	n20	2472	Ant1	-6.24	0	-6.24	8	Pass
NVNT	n40	2422	Ant1	-8.73	0	-8.73	8	Pass
NVNT	n40	2442	Ant1	-8.42	0	-8.42	8	Pass
NVNT	n40	2462	Ant1	-8.77	0	-8.77	8	Pass
NVNT	ax20	2412	Ant1	-6.7	0	-6.7	8	Pass
NVNT	ax20	2442	Ant1	-7.83	0	-7.83	8	Pass
NVNT	ax20	2472	Ant1	-7.6	0	-7.6	8	Pass



Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2442MHz Ant1

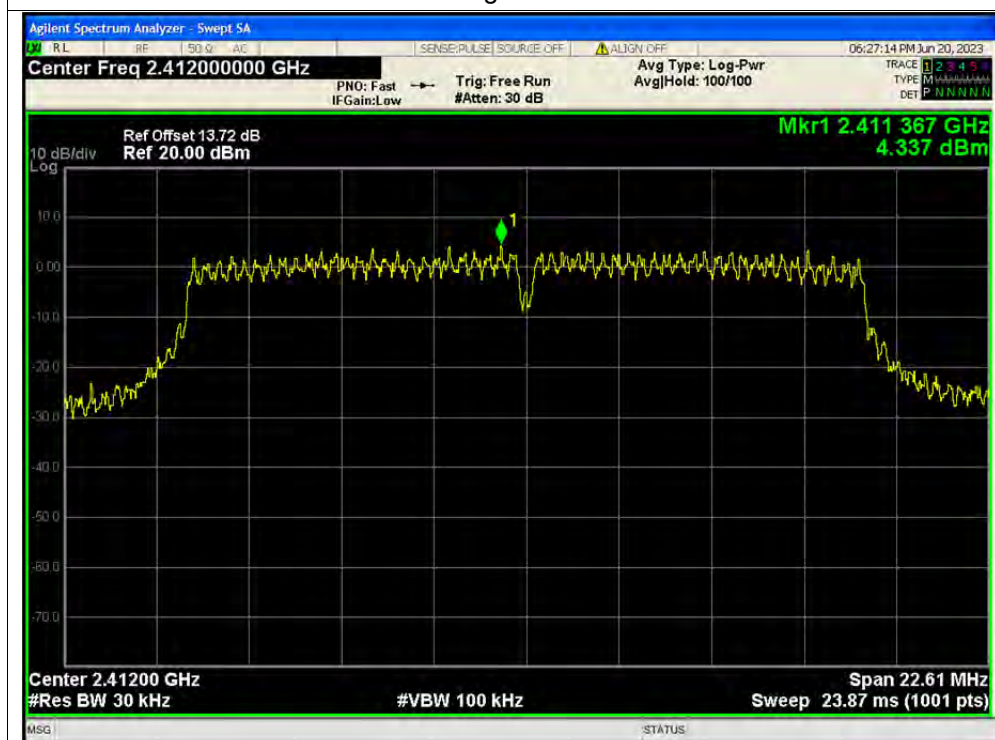




PSD NVNT b 2472MHz Ant1



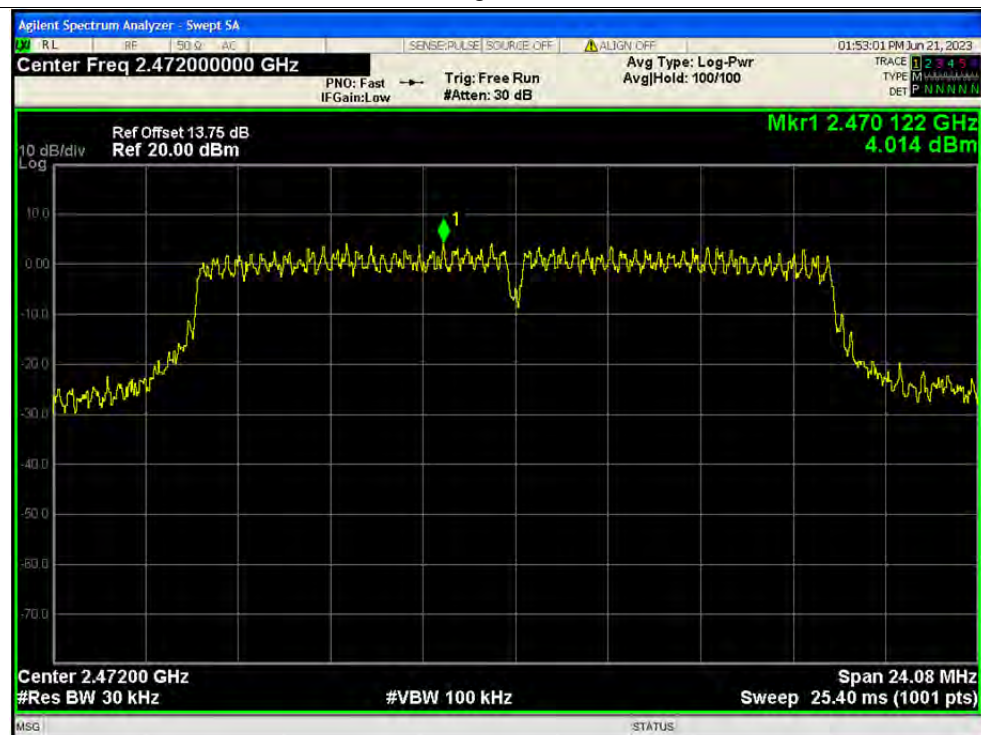
PSD NVNT g 2412MHz Ant1



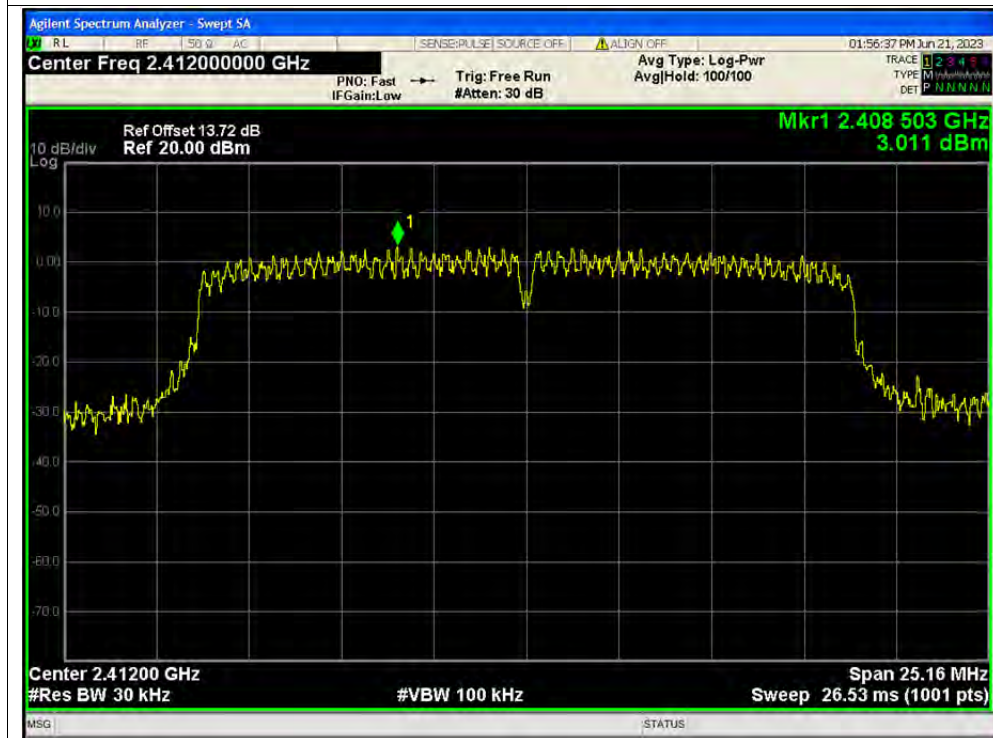
PSD NVNT g 2442MHz Ant1



PSD NVNT g 2472MHz Ant1



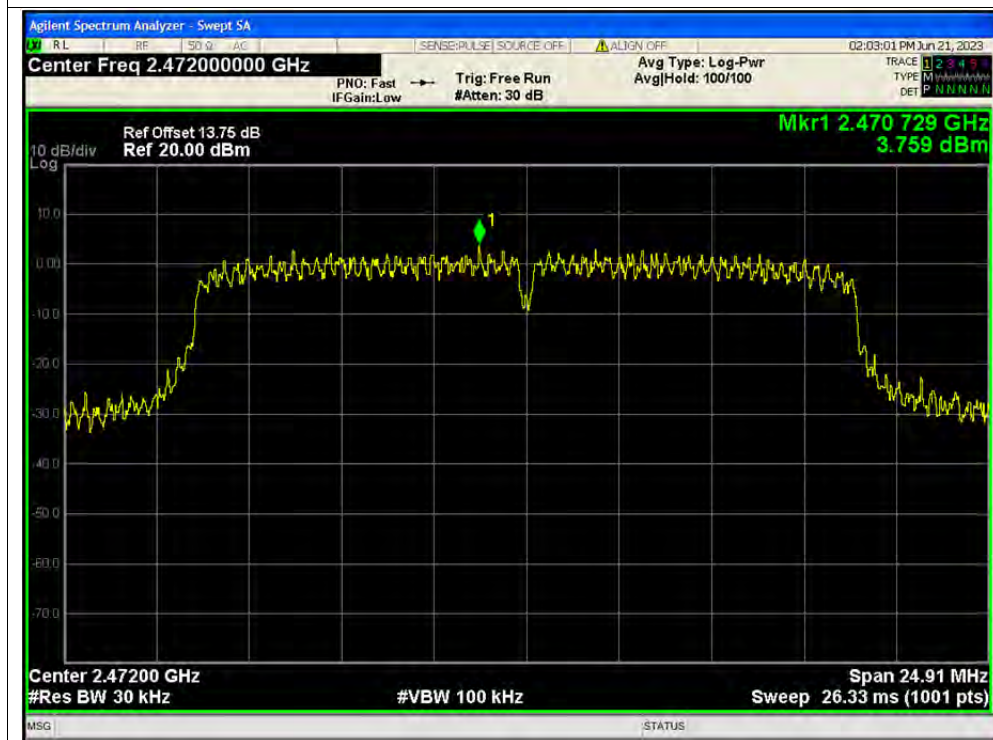
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2442MHz Ant1



PSD NVNT n20 2472MHz Ant1



PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2442MHz Ant1



PSD NVNT n40 2462MHz Ant1

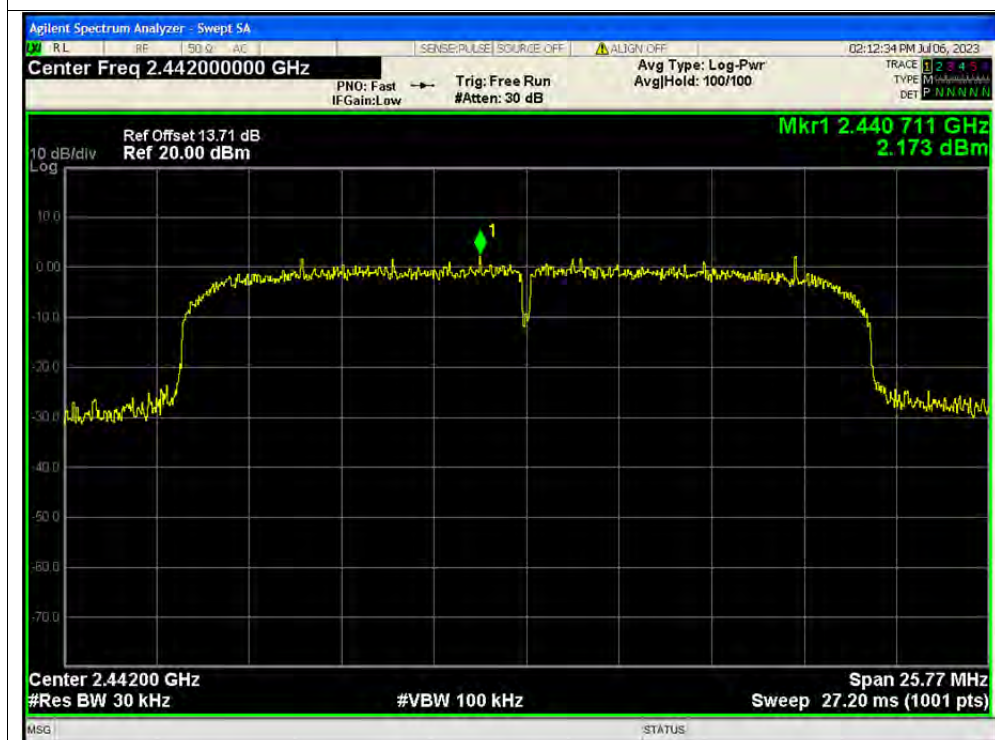




PSD NVNT ax20 2412MHz Ant1



PSD NVNT ax20 2442MHz Ant1





PSD NVNT ax20 2472MHz Ant1





A.8. Conducted Emission

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT + PC + PC Adapter + WiFi TX

Test voltage: AC 120V/60Hz

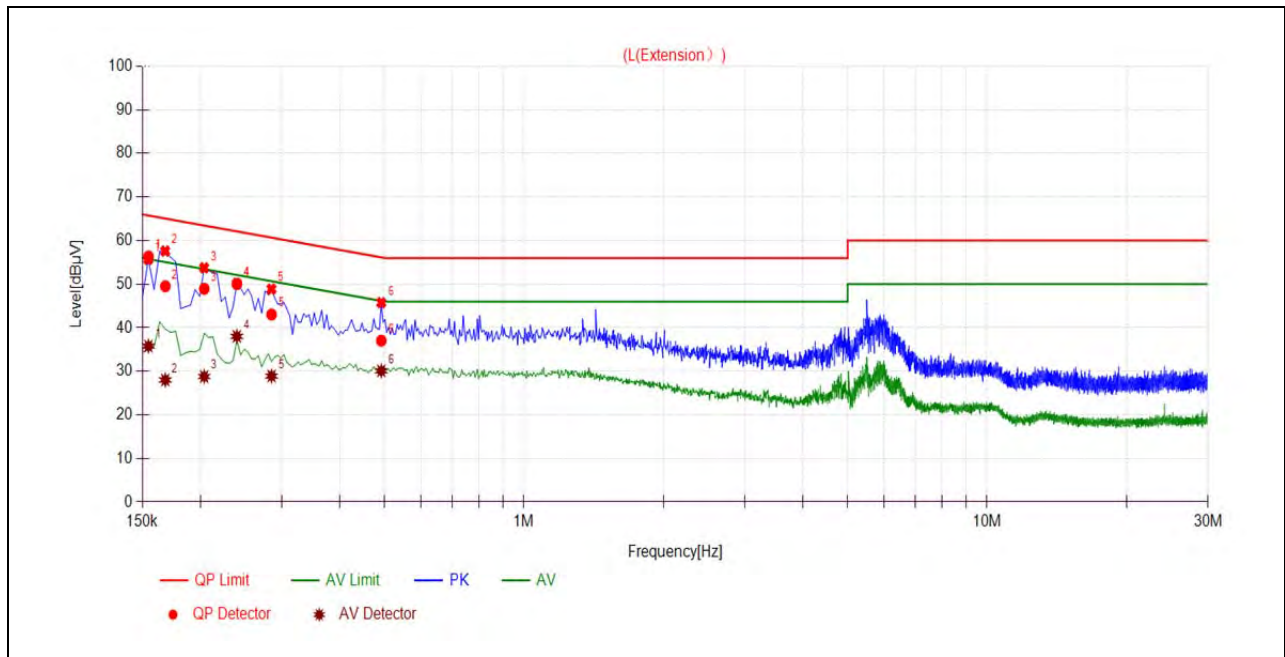
The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

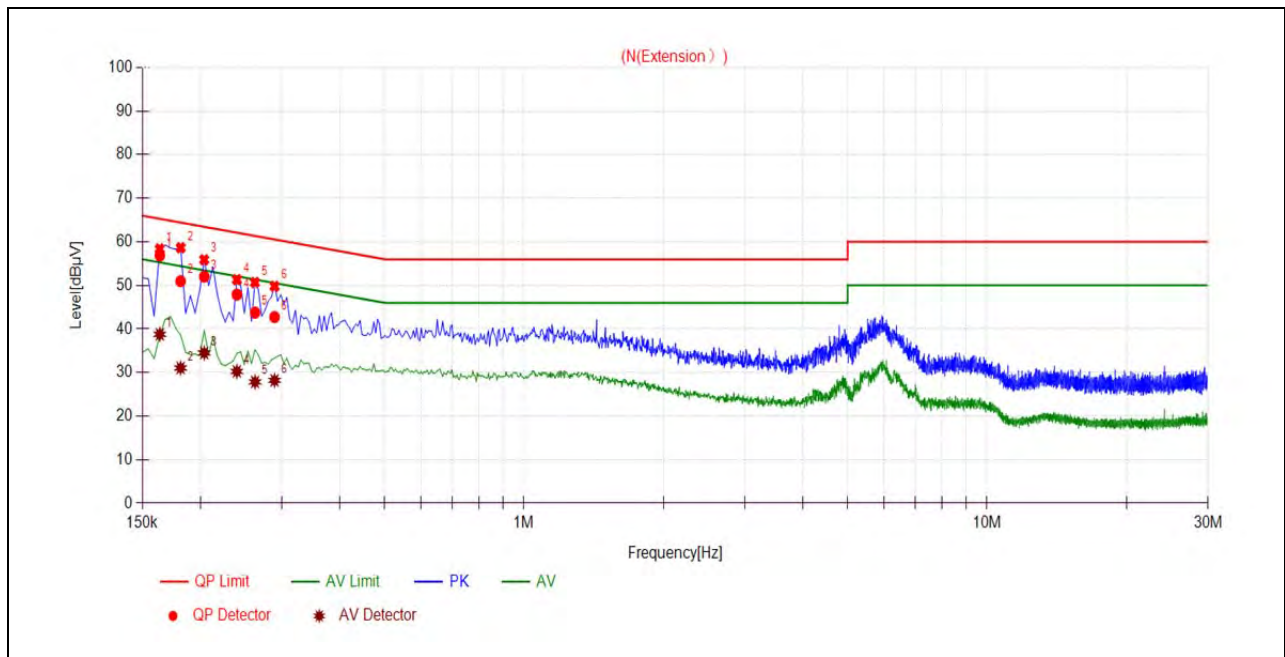
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1546	56.34	35.77	65.75	55.75	Line	PASS
2	0.1681	49.52	28.00	65.05	55.05		PASS
3	0.2040	48.94	28.79	63.44	53.44		PASS
4	0.2399	50.04	38.00	62.10	52.10		PASS
5	0.2851	43.03	28.90	60.67	50.67		PASS
6	0.4920	37.02	30.10	56.13	46.13		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1636	56.85	38.77	65.28	55.28	Neutral	PASS
2	0.1814	50.96	31.05	64.42	54.42		PASS
3	0.2040	52.02	34.49	63.45	53.45		PASS
4	0.2399	47.90	30.24	62.10	52.10		PASS
5	0.2627	43.76	27.84	61.35	51.35		PASS
6	0.2894	42.74	28.20	60.54	50.54		PASS



A.9. Restricted Frequency Bands

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R + A_T + A_{\text{Factor}} [\text{dB}]; A_T = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}]$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

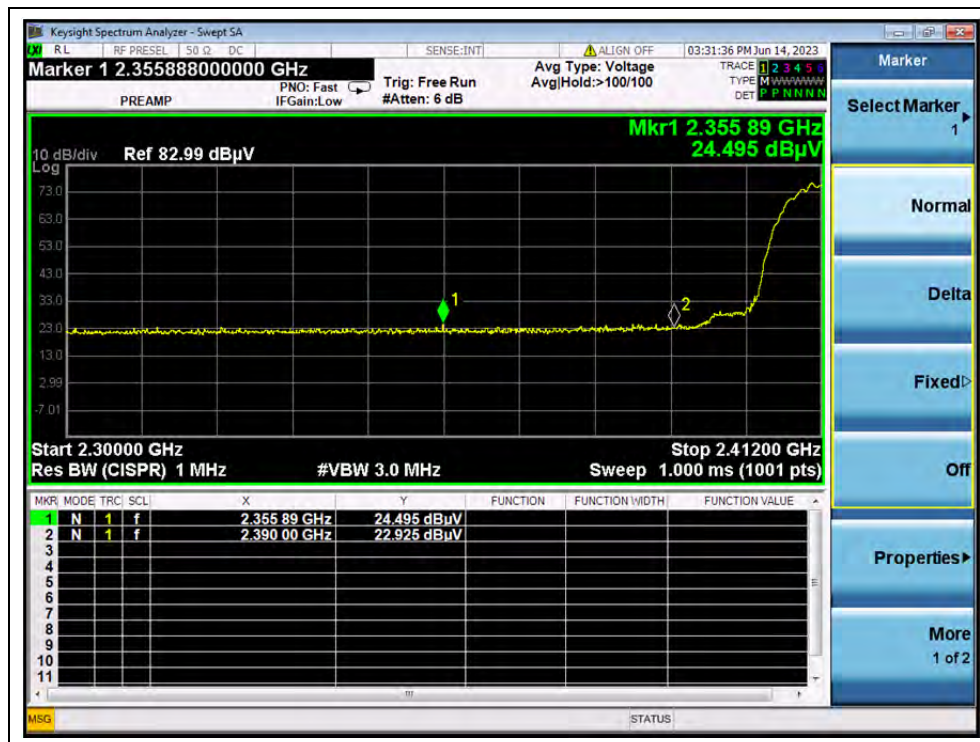
G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

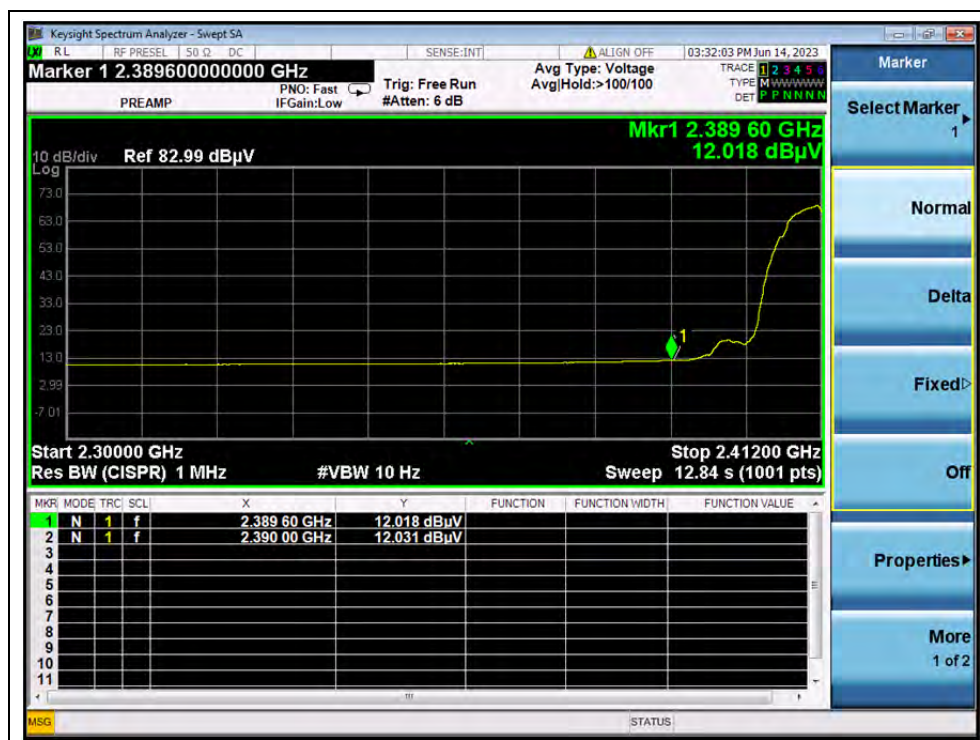
Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

802.11b Mode

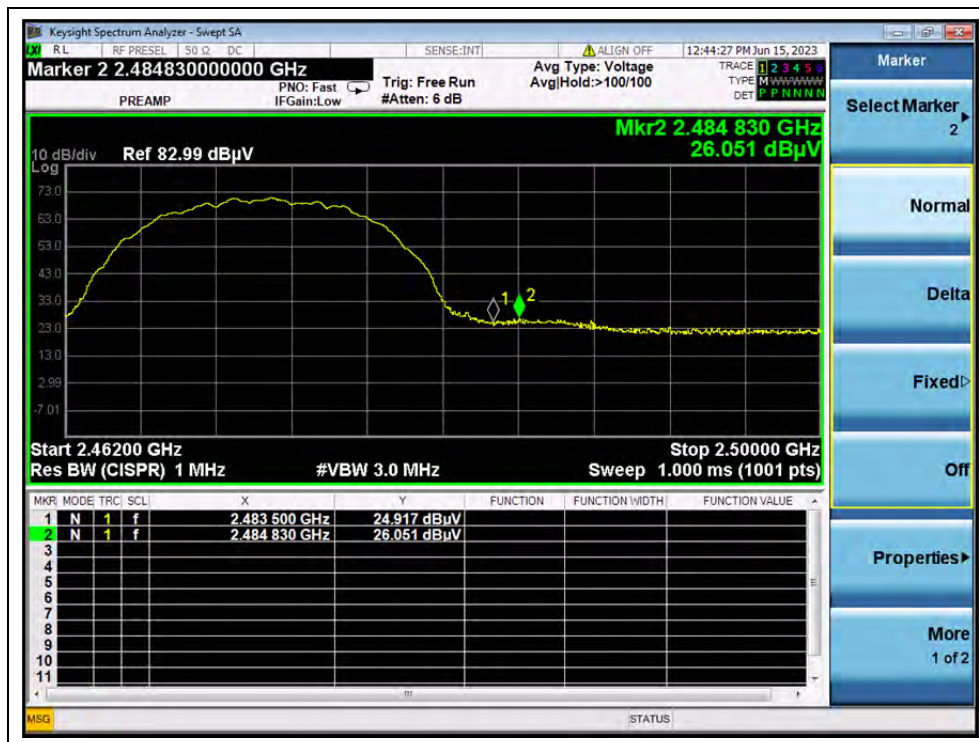
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2355.89	PK	24.50	6.74	27.20	58.44	74	PASS
1	2390.00	AV	12.03	6.74	27.20	45.97	54	PASS
13	2484.83	PK	26.05	6.74	27.20	59.99	74	PASS
13	2485.86	AV	16.68	6.74	27.20	50.62	54	PASS



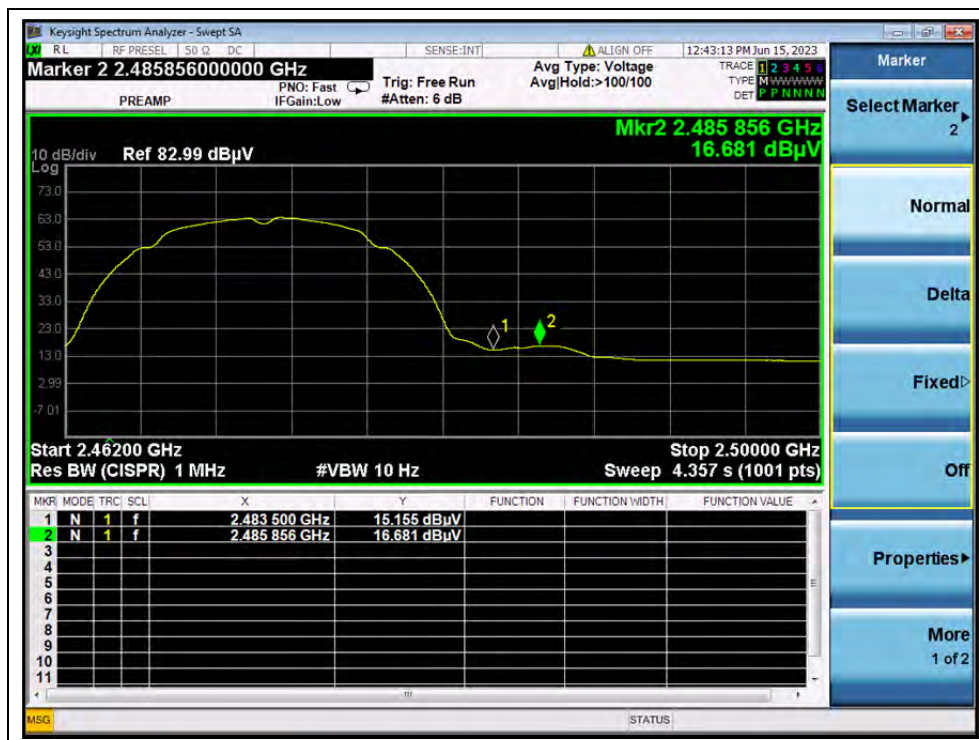
(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 13, 802.11b)

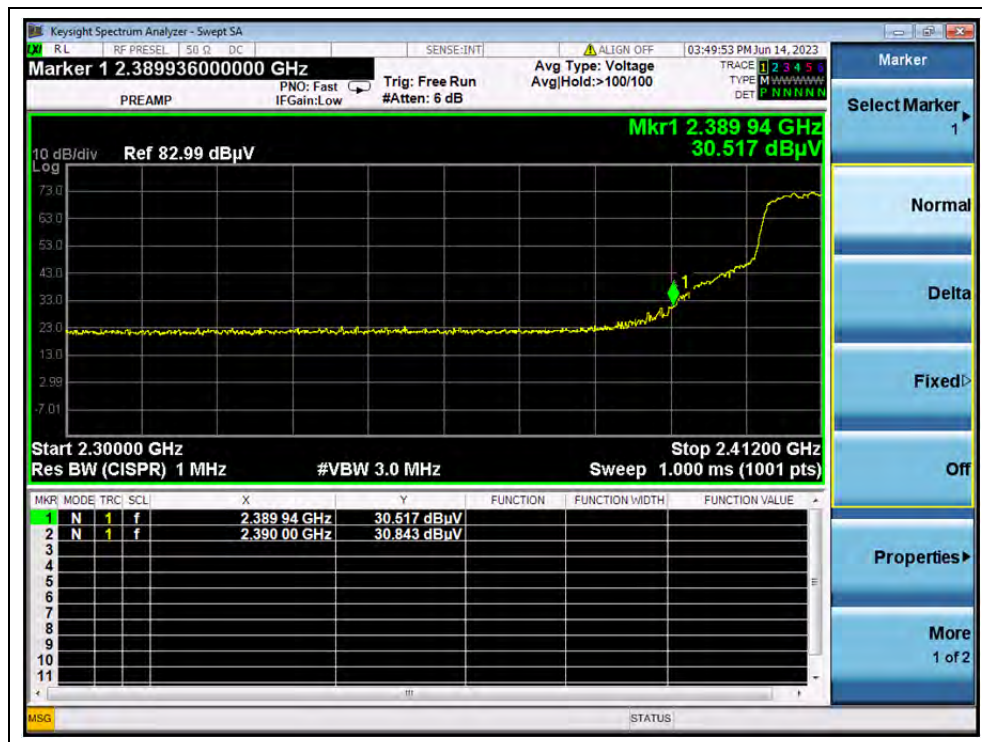


(AVERAGE, Channel 13, 802.11b)

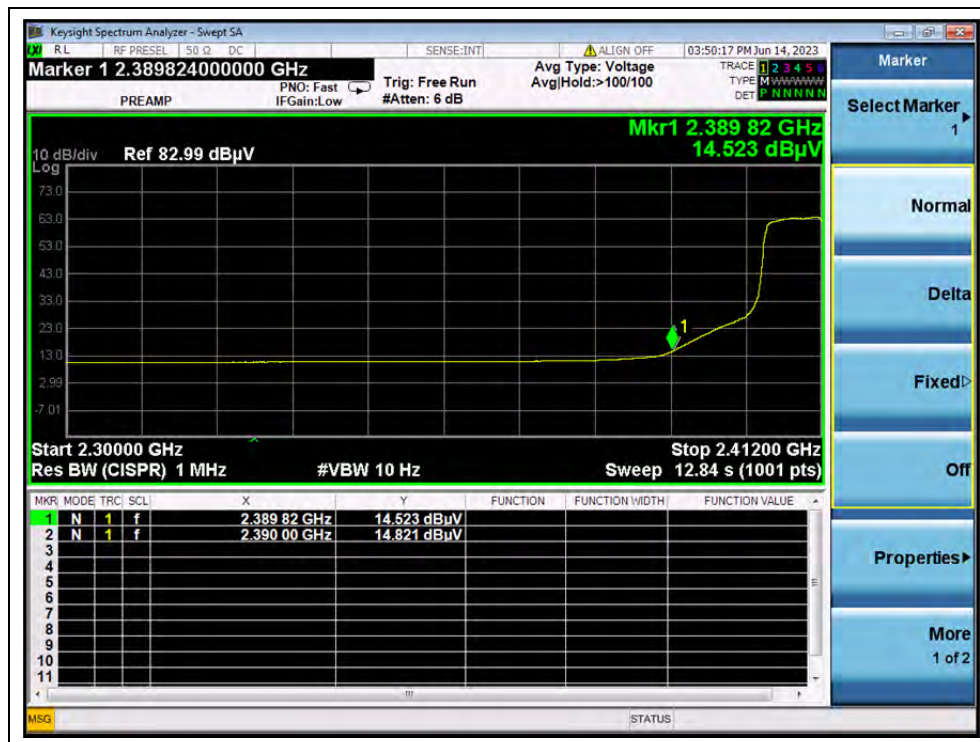


802.11g Mode

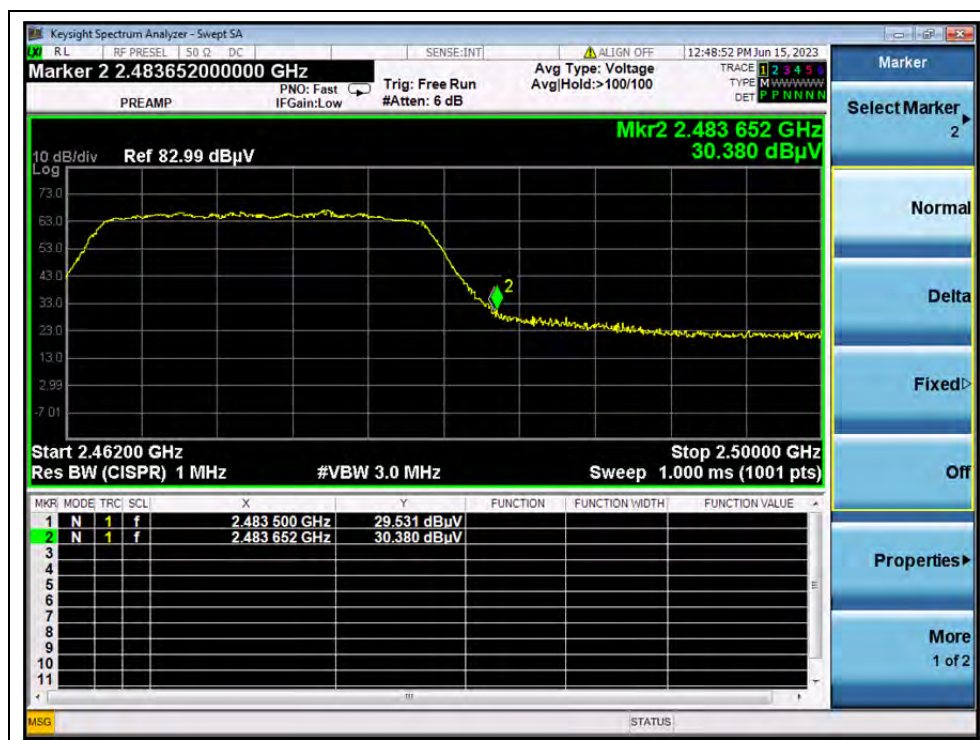
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2390.00	PK	30.84	6.74	27.20	64.78	74	PASS
1	2390.00	AV	14.82	6.74	27.20	48.76	54	PASS
13	2483.65	PK	30.38	6.74	27.20	64.32	74	PASS
13	2483.50	AV	16.71	6.74	27.20	50.65	54	PASS



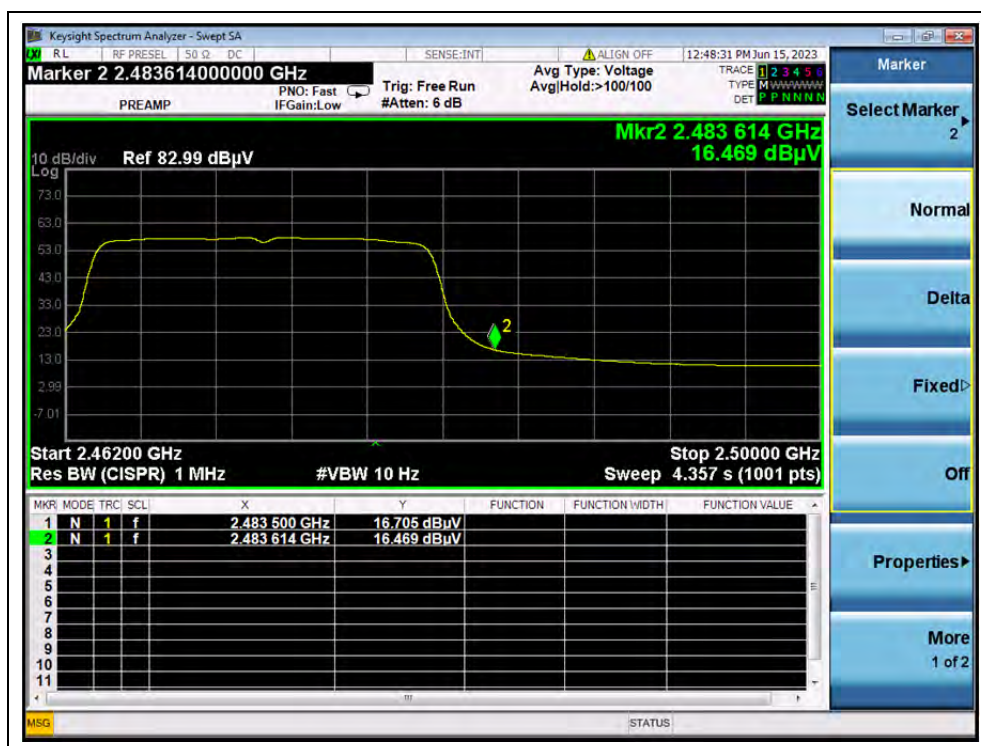
(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 13, 802.11g)

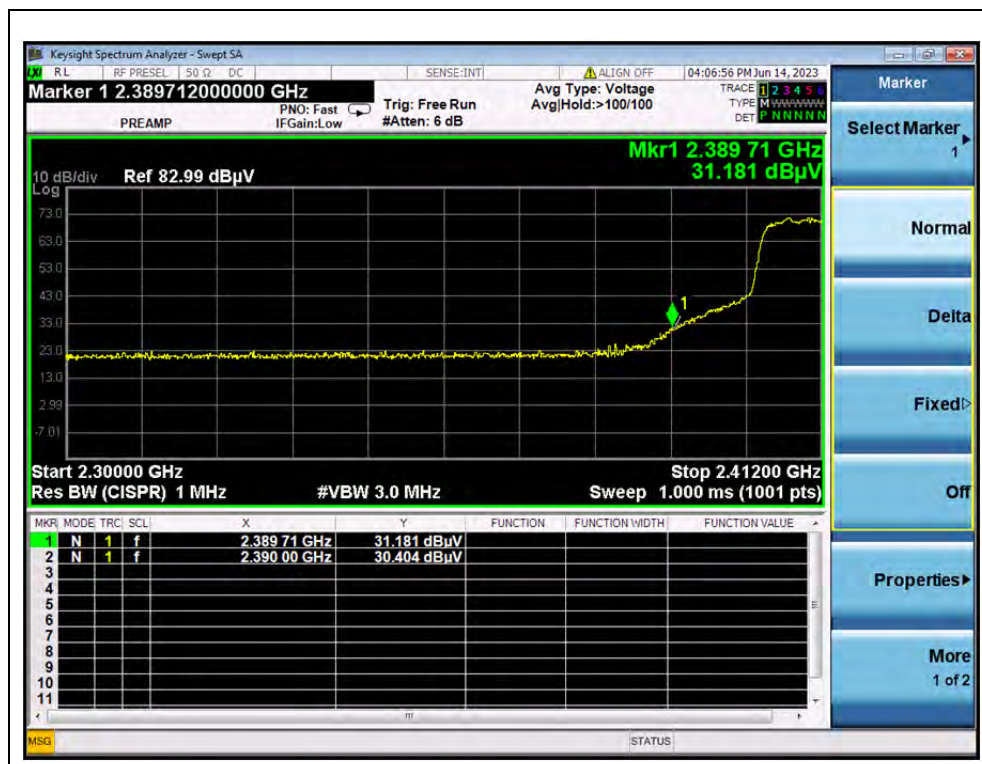


(AVERAGE, Channel 13, 802.11g)

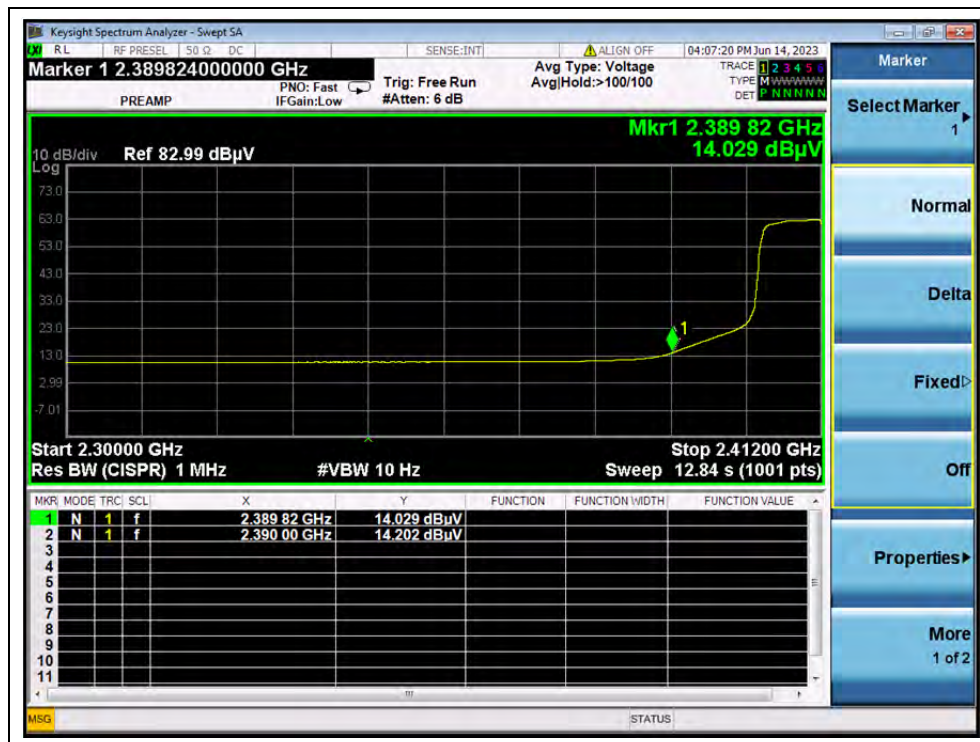


802.11n (HT20) Mode

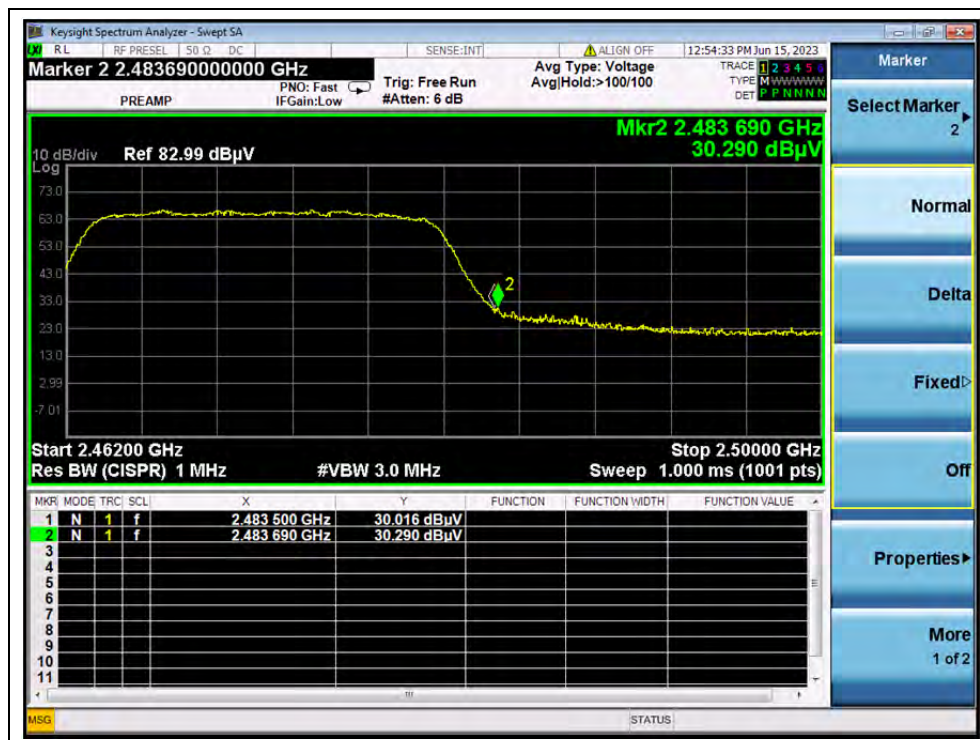
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2390.00	PK	30.40	6.74	64.34	66.74	74	PASS
1	2390.00	AV	14.20	6.74	48.14	50.55	54	PASS
13	2483.69	PK	30.29	6.74	64.23	67.64	74	PASS
13	2483.61	AV	16.63	6.74	50.57	48.28	54	PASS



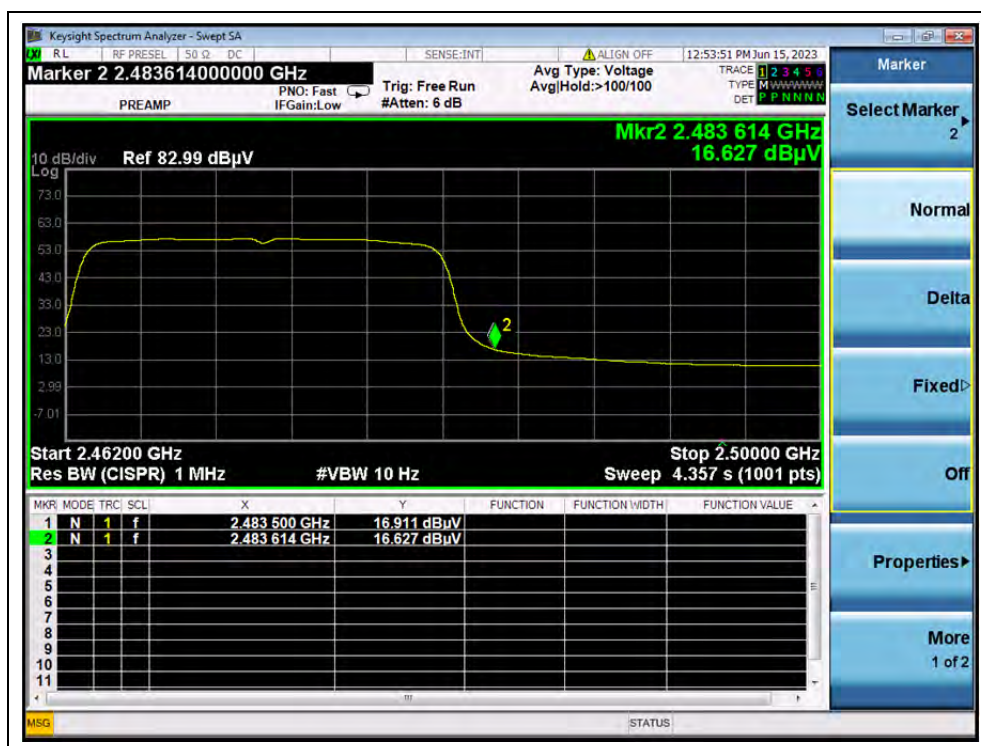
(PEAK, Channel 1, 802.11n (HT20))



(AVERAGE, Channel 1, 802.11n (HT20))



(PEAK, Channel 13, 802.11n (HT20))



(AVERAGE, Channel 13, 802.11n (HT20))

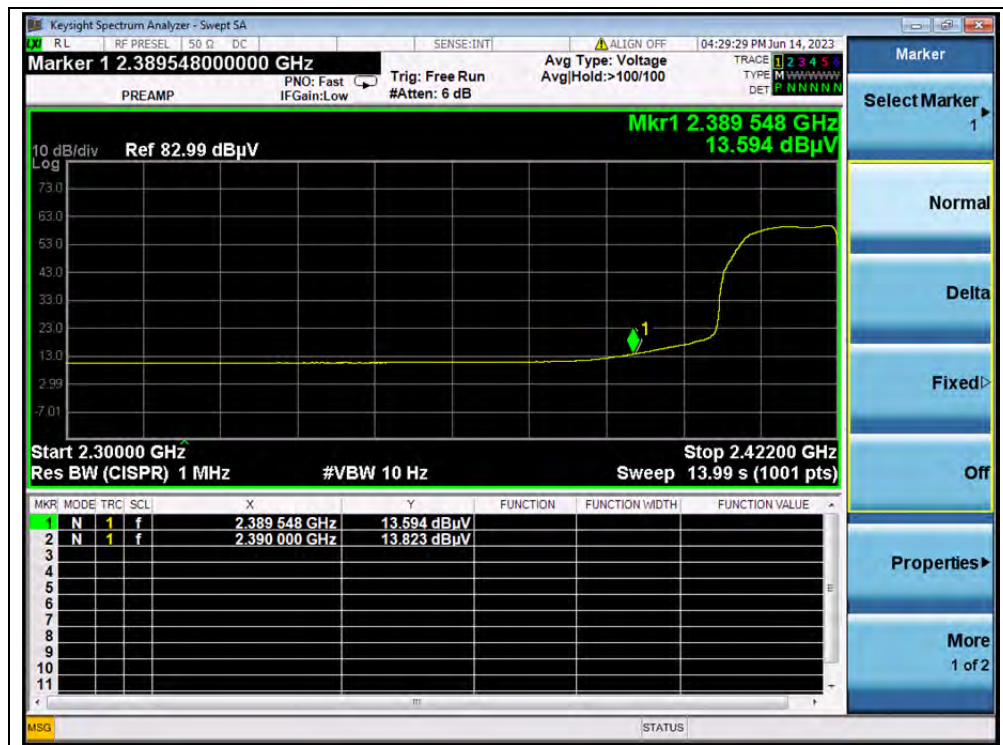


802.11n (HT40) Mode

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
3	2389.43	PK	29.16	6.74	27.20	63.10	74	PASS
3	2390.00	AV	13.82	6.74	27.20	47.76	54	PASS
11	2483.62	PK	28.75	6.74	27.20	62.69	74	PASS
11	2483.50	AV	16.13	6.74	27.20	50.07	54	PASS



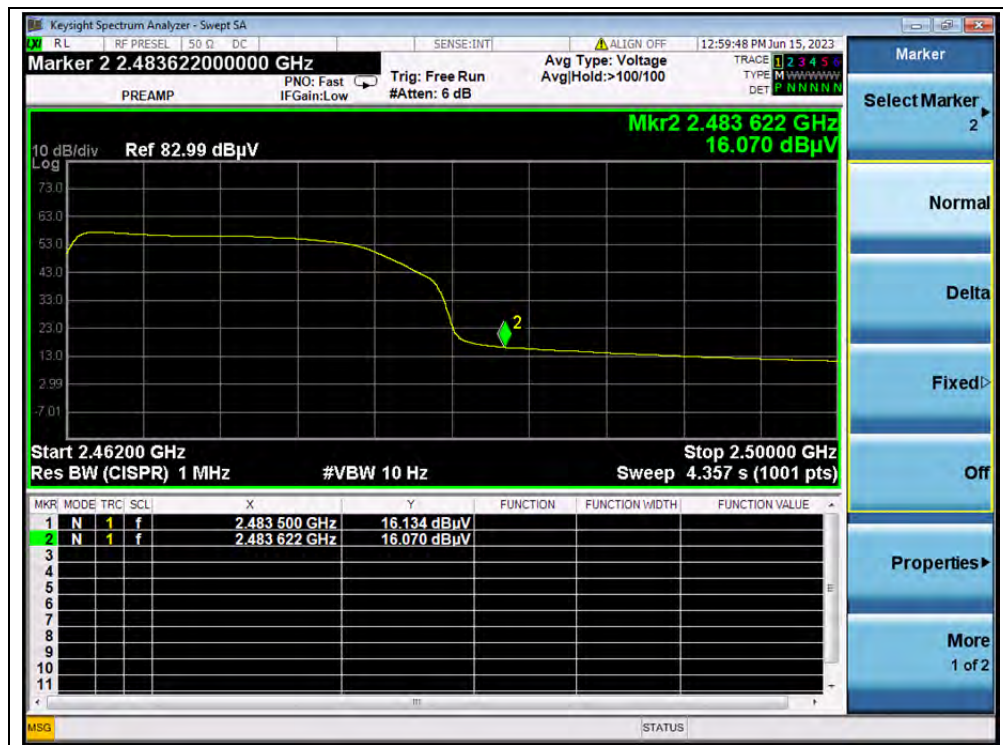
(PEAK, Channel 3, 802.11n (HT40))



(AVERAGE, Channel 3, 802.11n (HT40))



(PEAK, Channel 11, 802.11n (HT40))

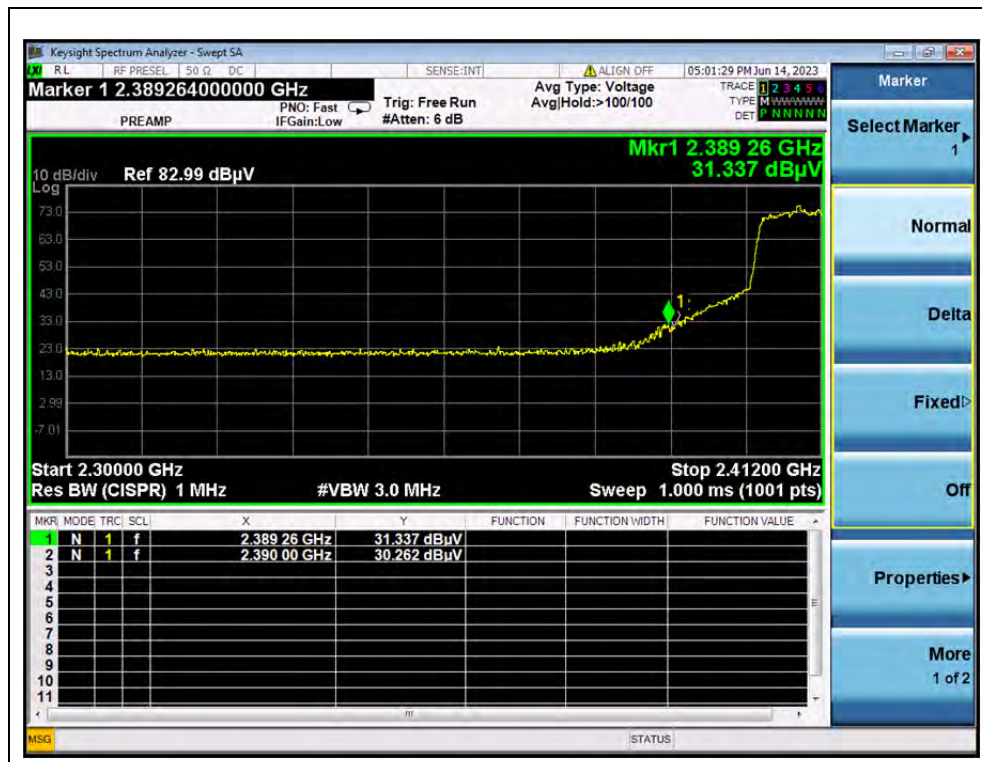


(AVERAGE, Channel 11, 802.11n (HT40))

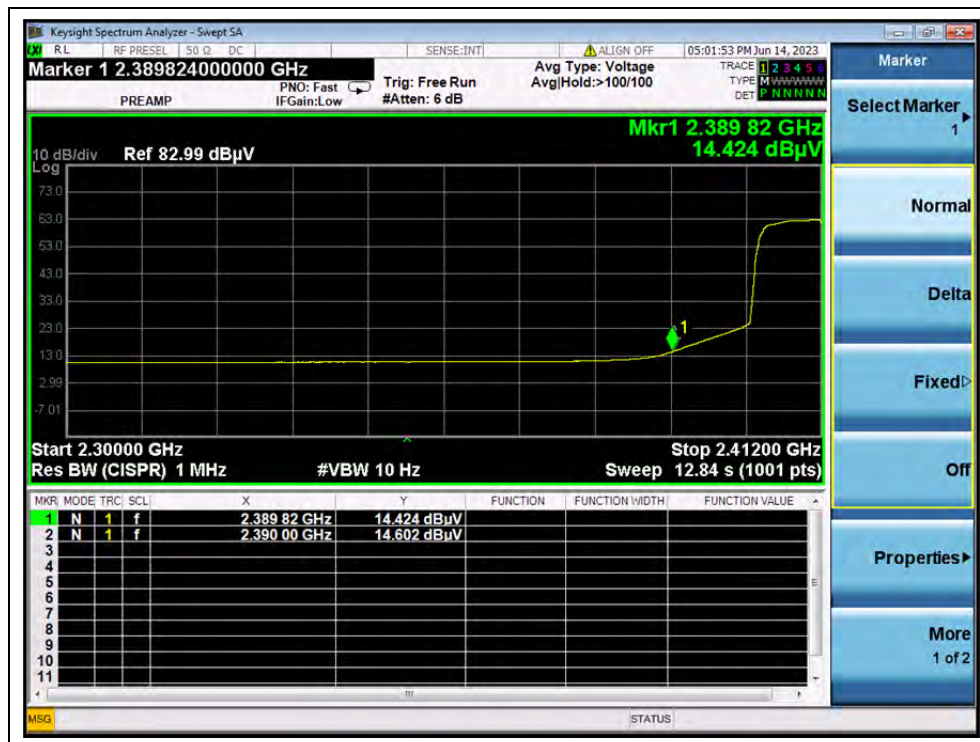


802.11ax (HEW20) Mode

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2389.26	PK	31.34	6.74	27.20	65.28	74	PASS
1	2390.00	AV	14.60	6.74	27.20	48.54	54	PASS
13	2483.50	PK	32.27	6.74	27.20	66.21	74	PASS
13	2483.50	AV	16.19	6.74	27.20	50.13	54	PASS



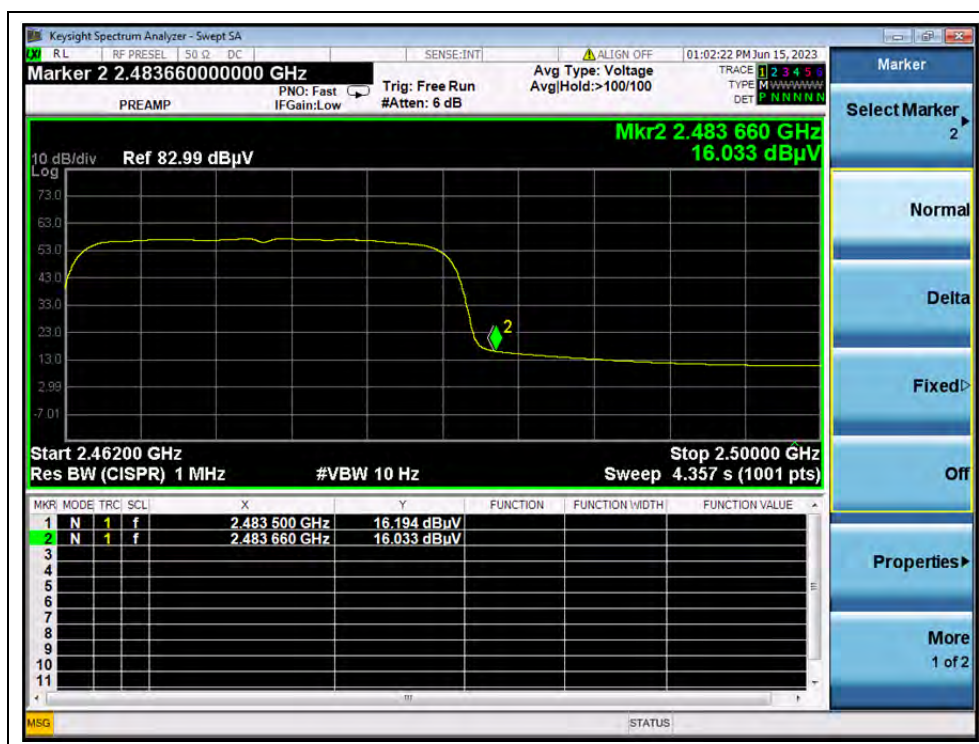
(PEAK, Channel 1, 802.11ax (HEW20))



(AVERAGE, Channel 1, 802.11ax (HEW20))



(PEAK, Channel 13, 802.11ax (HEW20))



(AVERAGE, Channel 13, 802.11ax (HEW20))



A.10. Radiated Emission

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R + A_T + A_{\text{Factor}} [\text{dB}]; A_T = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}]$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

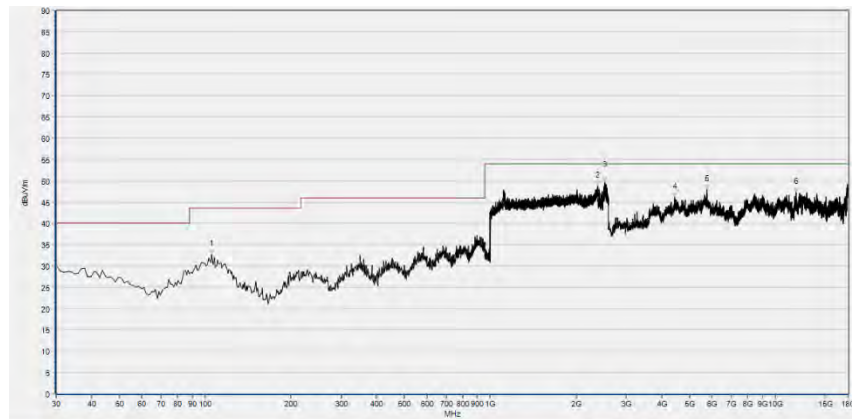
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

**802.11b Mode**

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	32.66	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2379.200	48.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2517.333	49.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4441.840	46.15	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5763.160	47.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11803.040	47.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

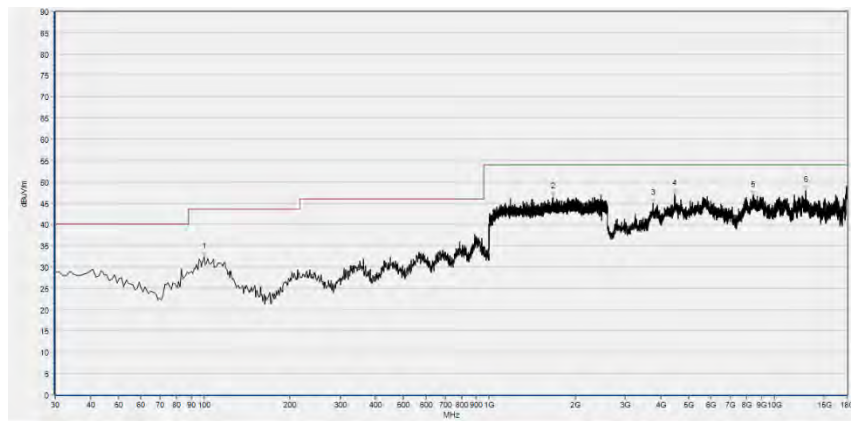


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	31.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2509.333	48.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4500.360	46.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4823.760	49.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8843.160	47.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12175.720	48.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

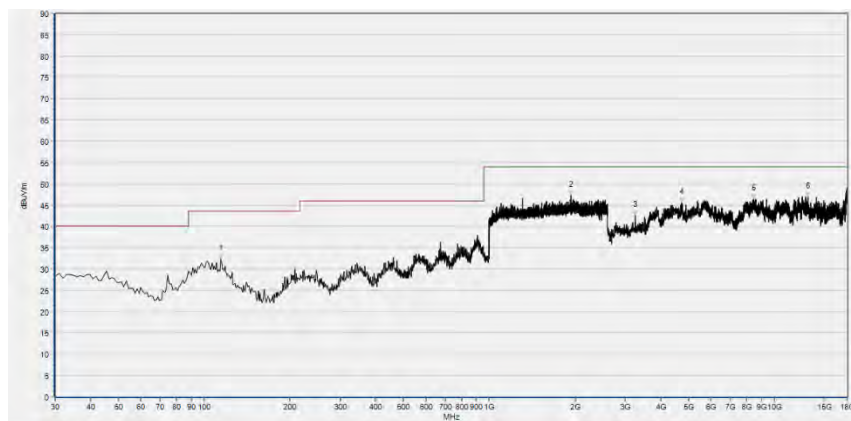


Plot for Channel 7



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	32.42	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1670.933	46.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3751.920	44.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4469.560	47.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8424.280	46.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12905.680	47.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

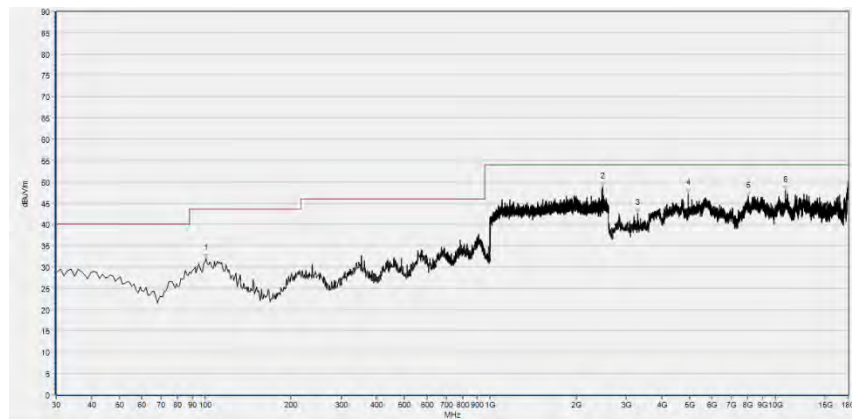


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
114.390	32.31	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1934.400	47.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3256.040	42.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4722.120	45.66	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8442.760	46.48	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13087.400	47.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



Plot for Channel 13



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	32.07	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2475.733	48.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3296.080	42.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4943.880	47.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8014.640	46.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10860.560	47.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

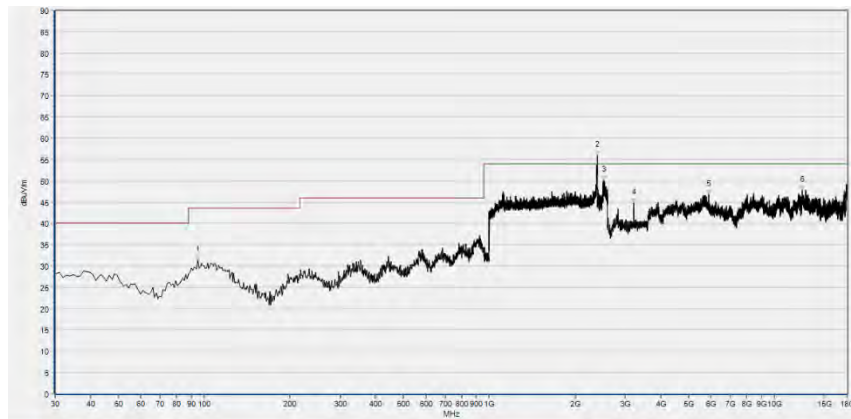


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	32.01	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2412.267	46.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3699.560	45.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4943.880	49.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8442.760	47.01	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12533.000	47.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

**802.11g Mode**

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
94.990	31.34	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2390.933	55.99	N/A	39.47	74.00	N/A	54.00	Horizontal	PASS
2526.933	50.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3216.000	44.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5886.360	46.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12539.160	47.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	32.40	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2389.333	52.76	N/A	38.60	74.00	N/A	54.00	Vertical	PASS
2531.200	48.60	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5658.440	46.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8458.160	46.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12526.840	46.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

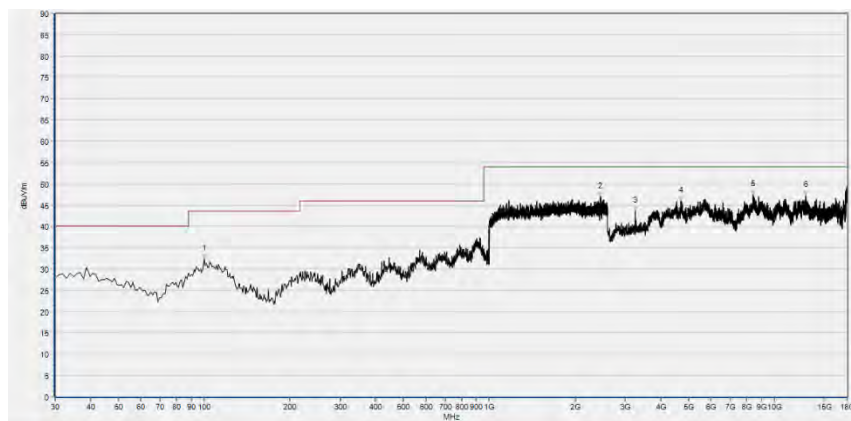


Plot for Channel 7



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	32.15	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1961.600	46.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3755.000	44.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4725.200	46.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8559.800	46.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12277.360	47.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

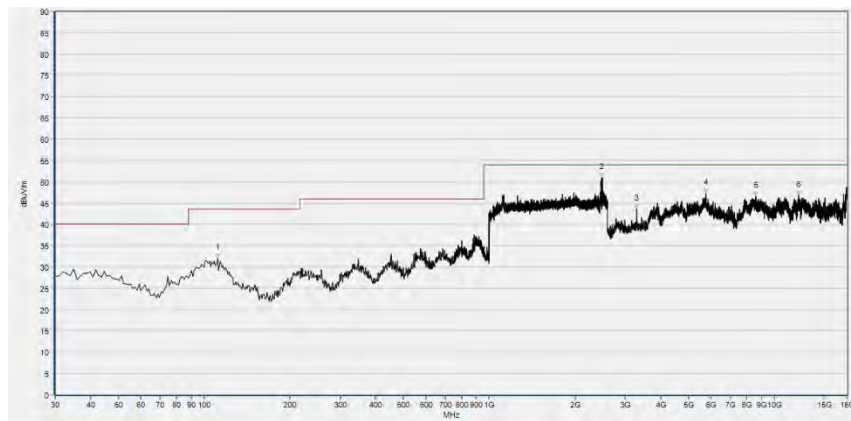


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	32.37	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2449.600	46.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3256.040	43.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4697.480	45.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8418.120	47.49	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12896.440	47.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

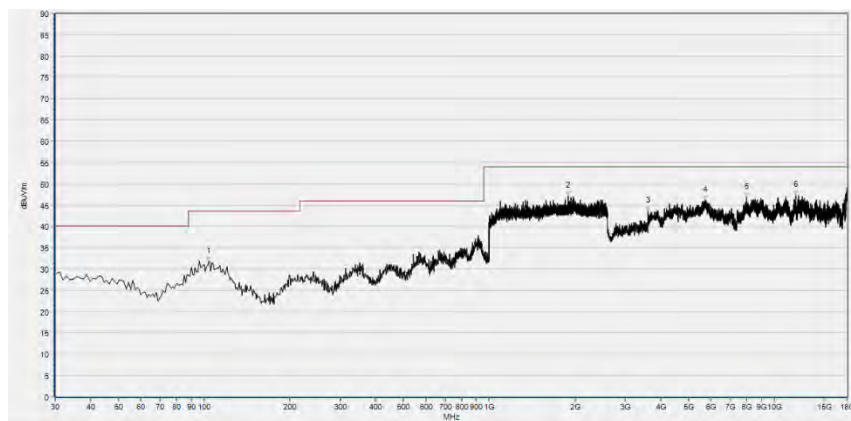


Plot for Channel 13



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	32.02	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2476.800	50.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3296.080	43.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5750.840	47.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8618.320	46.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12175.720	46.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

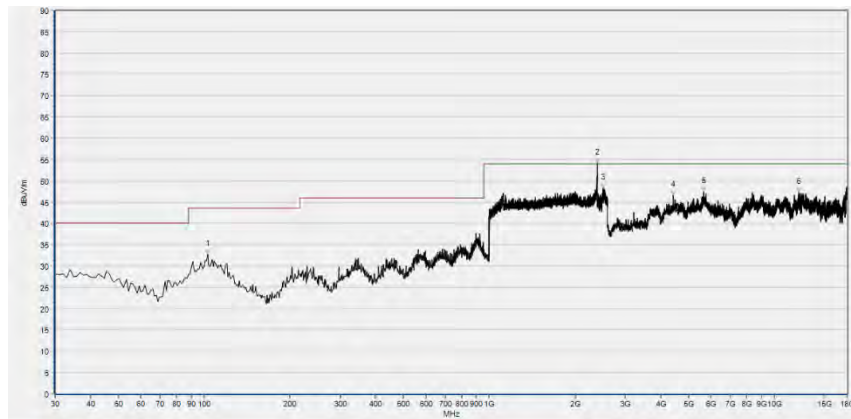


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.720	31.65	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1894.400	47.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3610.240	43.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5701.560	46.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7986.920	46.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11864.640	47.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

**802.11n (HT20) Mode**

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	32.66	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2389.333	54.15	N/A	38.77	74.00	N/A	54.00	Horizontal	PASS
2511.467	48.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4423.360	46.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5661.520	47.46	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12197.280	47.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

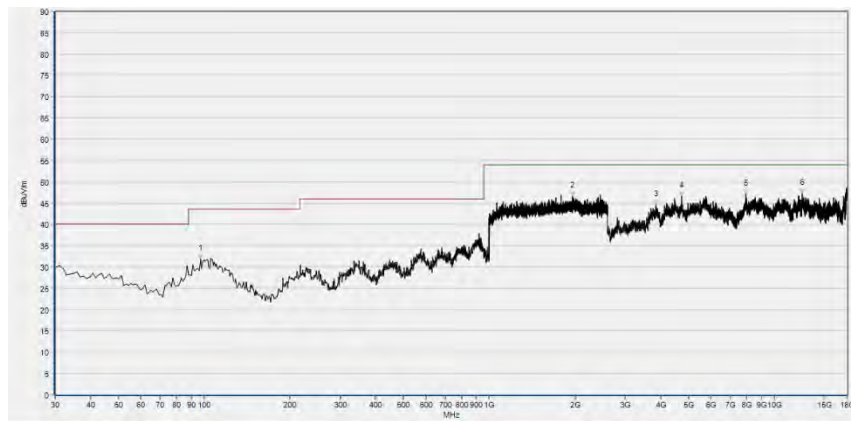


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.690	31.97	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2389.333	49.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2518.400	49.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4475.720	45.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7866.800	47.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12166.480	47.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

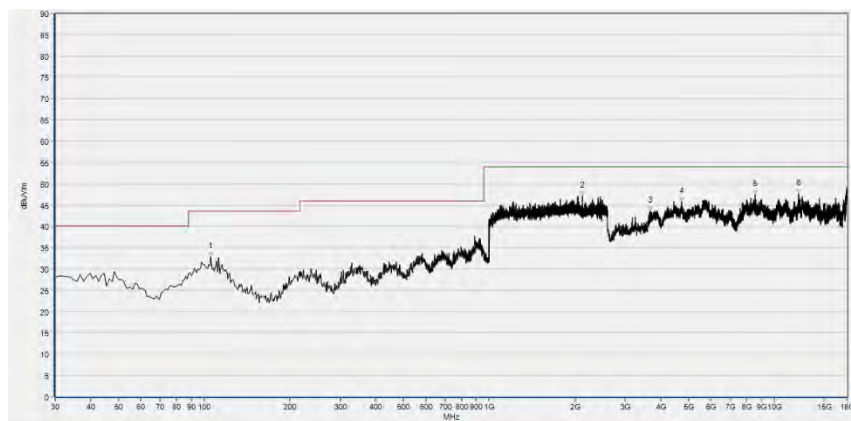


Plot for Channel 7



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.930	31.91	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1960.000	46.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3835.080	44.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4725.200	46.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7937.640	47.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12502.200	47.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

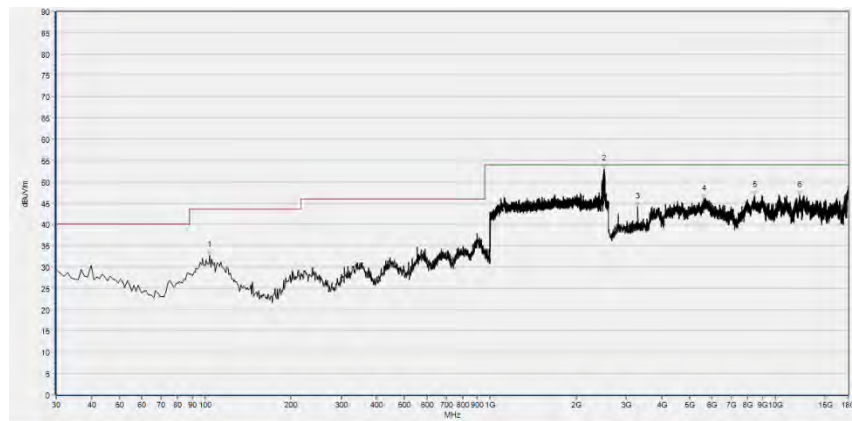


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	32.78	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2118.400	47.07	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3674.920	43.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4737.520	45.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8578.280	47.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12188.040	47.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

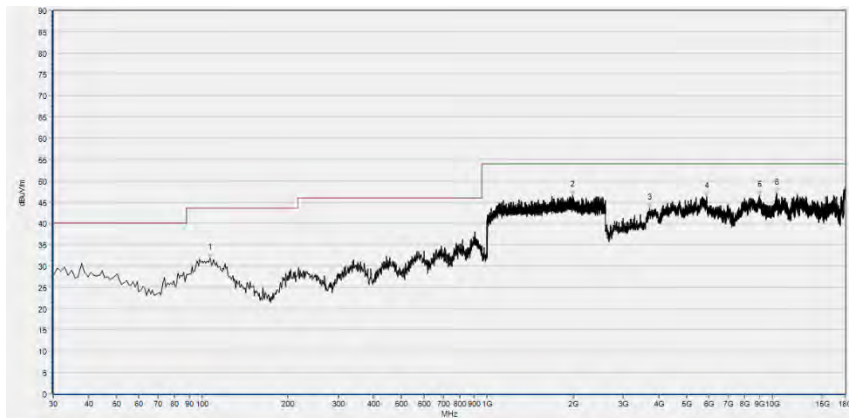


Plot for Channel 13



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.720	32.64	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2507.200	53.00	N/A	37.69	74.00	N/A	54.00	Horizontal	PASS
3296.080	44.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5606.080	45.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8445.840	46.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12148.000	46.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

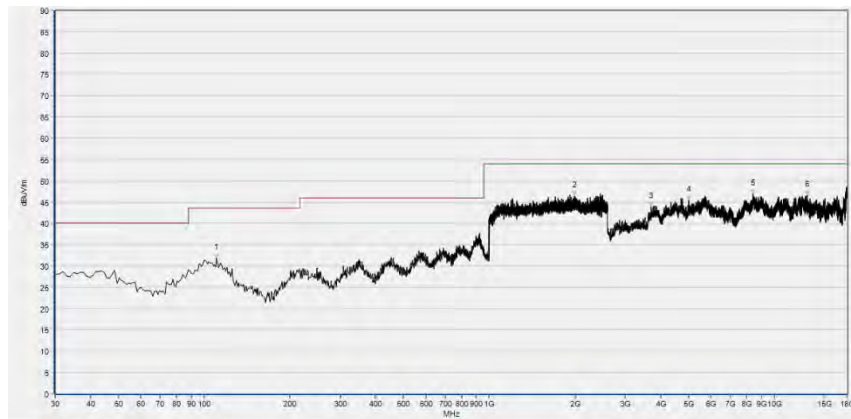


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	31.79	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1990.933	46.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3718.040	43.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5886.360	46.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9015.640	46.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10343.120	47.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

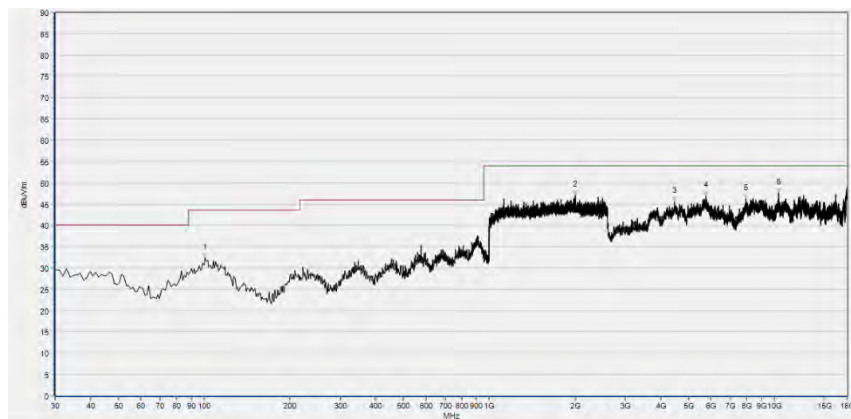
**802.11n (HT40) Mode**

Plot for Channel 3



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	31.93	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1992.533	46.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3699.560	43.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5017.800	45.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8418.120	46.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13022.720	46.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

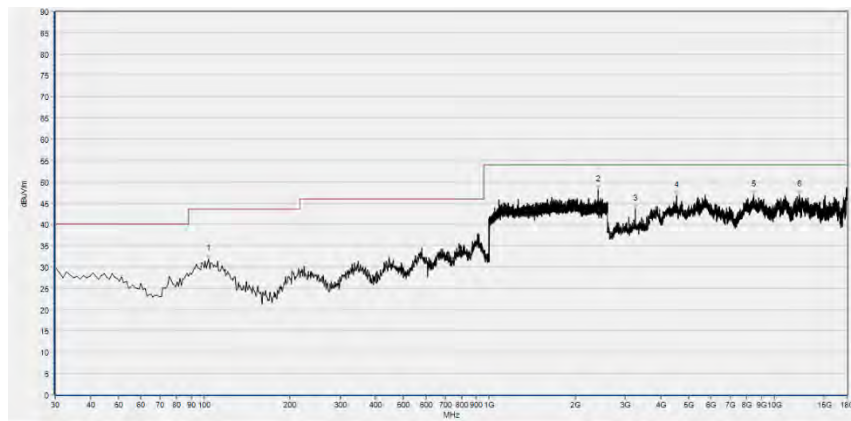
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	32.29	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2001.067	47.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4460.320	45.52	N/A	47.97	74.00	N/A	54.00	Vertical	PASS
5760.080	47.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7946.880	46.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10327.720	47.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

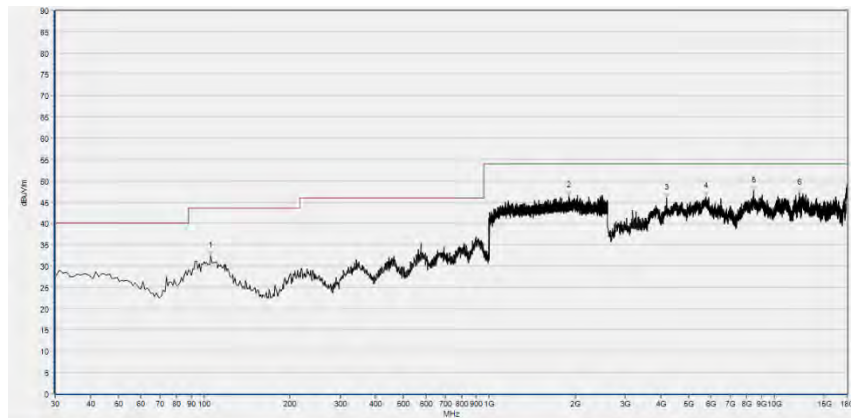
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 7



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.720	31.85	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2406.933	48.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3256.040	43.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4543.480	46.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8476.640	46.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12200.360	46.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

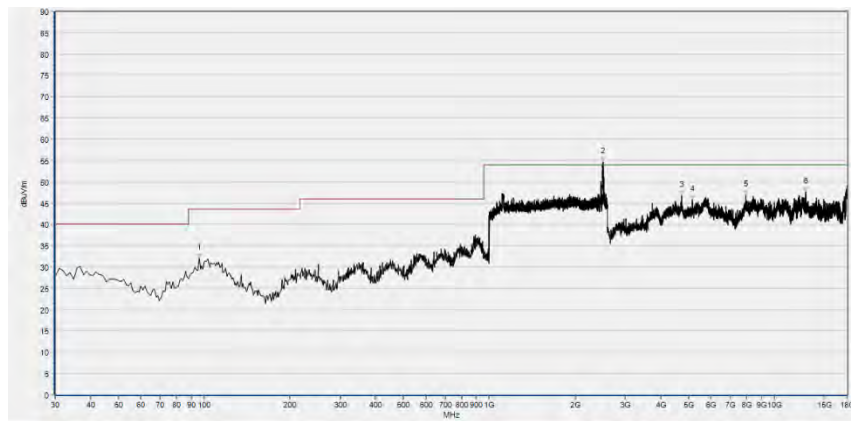
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	32.37	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1906.133	46.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4186.200	45.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5763.160	46.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8464.320	47.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12203.440	47.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

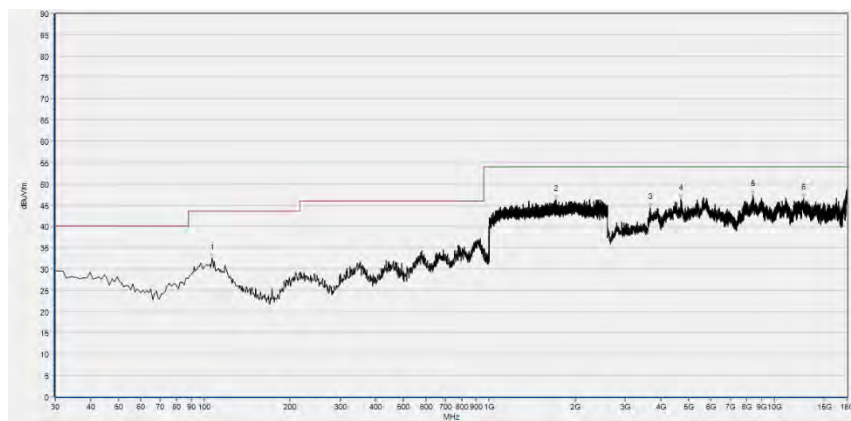
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
95.960	32.07	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2506.667	54.64	N/A	37.30	74.00	N/A	54.00	Horizontal	PASS
4719.040	46.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5147.160	45.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7928.400	46.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12899.520	47.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

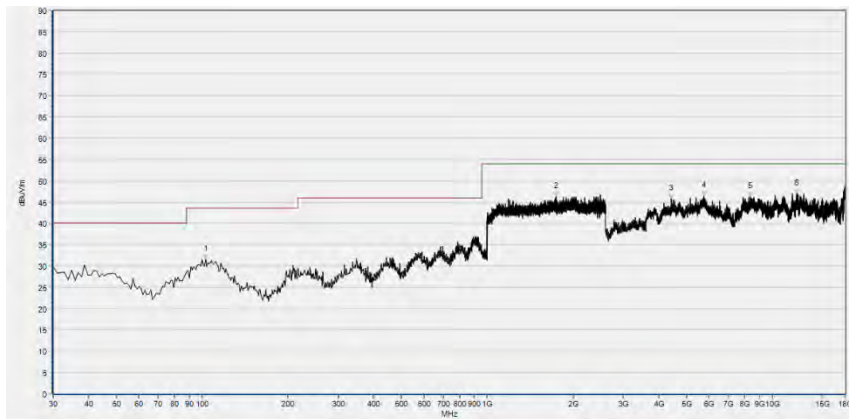


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	32.43	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1716.800	46.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3674.920	44.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4709.800	46.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8430.440	47.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12671.600	46.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

**802.11ax (HEW20) Mode**

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	31.44	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1742.400	46.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4423.360	45.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5744.680	46.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8375.000	46.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12197.280	46.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.77	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1838.933	47.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4454.160	45.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5701.560	47.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8981.760	46.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
15006.240	46.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

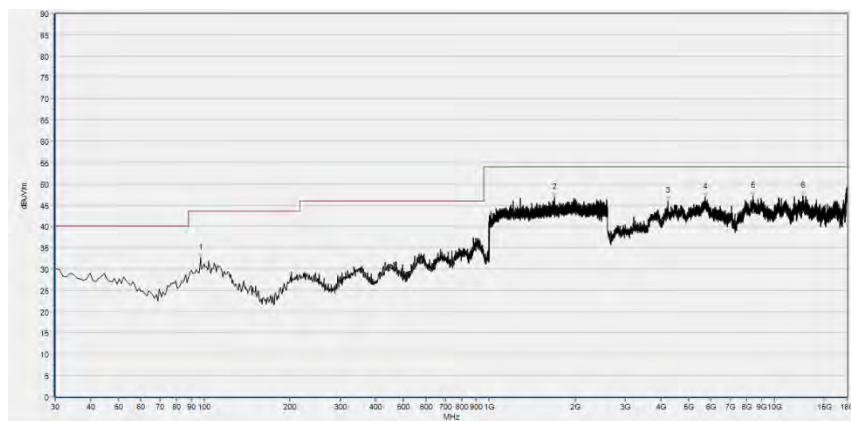


Plot for Channel 7



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	32.82	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2387.200	47.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3708.800	44.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5695.400	47.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7916.080	46.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12178.800	48.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

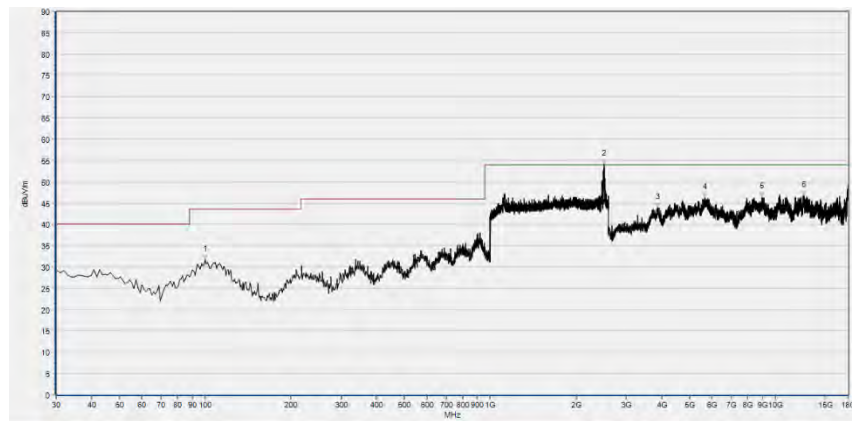


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.930	32.55	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1691.200	46.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4238.560	45.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5701.560	46.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8390.400	47.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12591.520	47.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

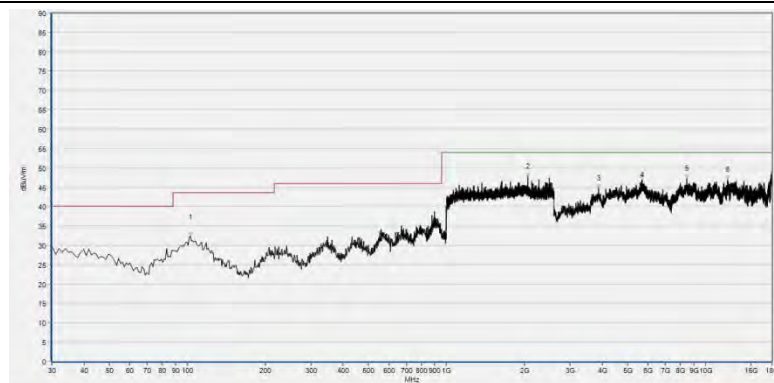


Plot for Channel 13



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	31.69	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2502.400	54.20	N/A	37.01	74.00	N/A	54.00	Horizontal	PASS
3853.560	43.99	N/A	N/A	74.00	N/A	54.00	Horizontal	N/A
5667.680	46.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8947.880	46.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12585.360	46.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	32.29	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2058.667	47.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3862.800	44.73	N/A	N/A	74.00	N/A	54.00	Vertical	N/A
5673.840	46.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8452.000	47.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12135.680	47.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT