



	MIMO							
NVNT	ax20 106@53 MIMO	2437	Sum	-9.27	0	-9.27	7.99	Pass
NVNT	ax20 106@54 SISO	2462	Ant1	-13.23	0	-13.23	8	Pass
NVNT	ax20 106@54 SISO	2462	Ant2	-13.09	0	-13.09	8	Pass
NVNT	ax20 106@54 MIMO	2462	Ant1	-12.76	0	-12.76	8	Pass
NVNT	ax20 106@54 MIMO	2462	Ant2	-13.84	0	-13.84	8	Pass
NVNT	ax20 106@54 MIMO	2462	Sum	-10.26	0	-10.26	7.99	Pass
NVNT	ax40 242@61 SISO	2422	Ant1	-15.02	0	-15.02	8	Pass
NVNT	ax40 242@61 SISO	2437	Ant1	-14.74	0	-14.74	8	Pass
NVNT	ax40 242@61 SISO	2422	Ant2	-14.77	0	-14.77	8	Pass
NVNT	ax40 242@61 SISO	2437	Ant2	-15.3	0	-15.3	8	Pass
NVNT	ax40 242@61 MIMO	2422	Ant1	-15.14	0	-15.14	8	Pass
NVNT	ax40 242@61 MIMO	2422	Ant2	-15.72	0	-15.72	8	Pass
NVNT	ax40 242@61 MIMO	2422	Sum	-12.41	0	-12.41	7.99	Pass
NVNT	ax40 242@61 MIMO	2437	Ant1	-15.2	0	-15.2	8	Pass
NVNT	ax40 242@61 MIMO	2437	Ant2	-16.1	0	-16.1	8	Pass
NVNT	ax40 242@61 MIMO	2437	Sum	-12.62	0	-12.62	7.99	Pass
NVNT	ax40 242@62 SISO	2452	Ant1	-14.2	0	-14.2	8	Pass
NVNT	ax40 242@62 SISO	2452	Ant2	-14.62	0	-14.62	8	Pass
NVNT	ax40 242@62 MIMO	2452	Ant1	-14.22	0	-14.22	8	Pass



REPORT No.: SZ24040065W07

NVNT	ax40 242@62 MIMO	2452	Ant2	-14.86	0	-14.86	8	Pass
NVNT	ax40 242@62 MIMO	2452	Sum	-11.52	0	-11.52	7.99	Pass



Test Graphs

PSD NVNT b 2412MHz Ant1 SISO

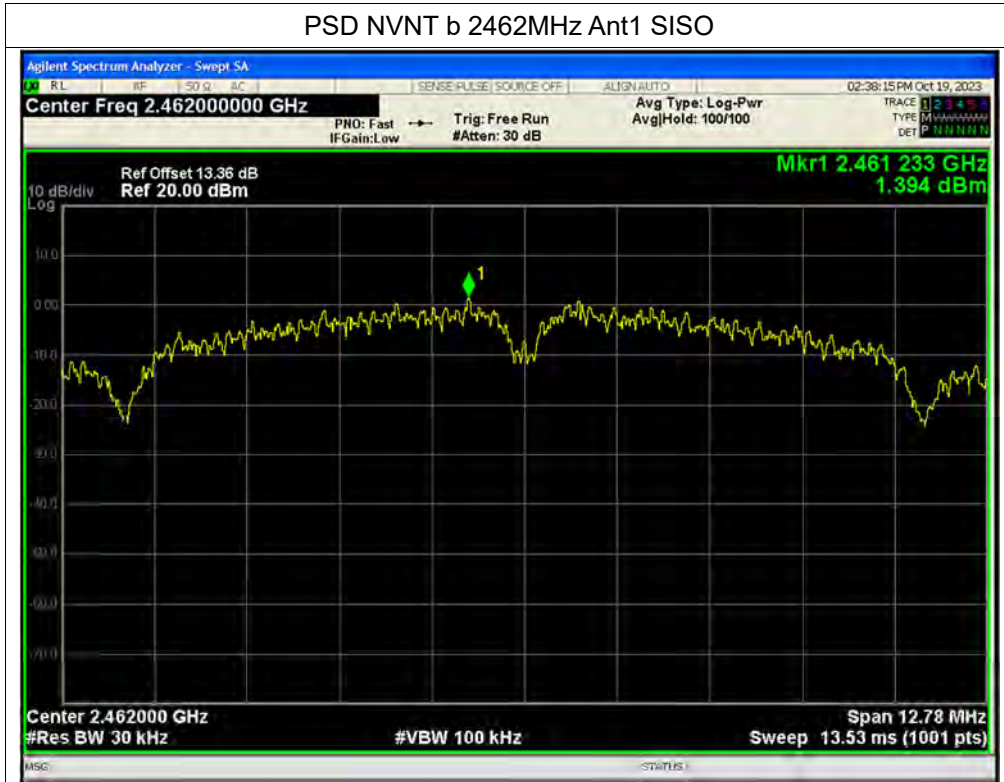


PSD NVNT b 2437MHz Ant1 SISO





PSD NVNT b 2462MHz Ant1 SISO



PSD NVNT b 2412MHz Ant2 SISO





PSD NVNT b 2437MHz Ant2 SISO

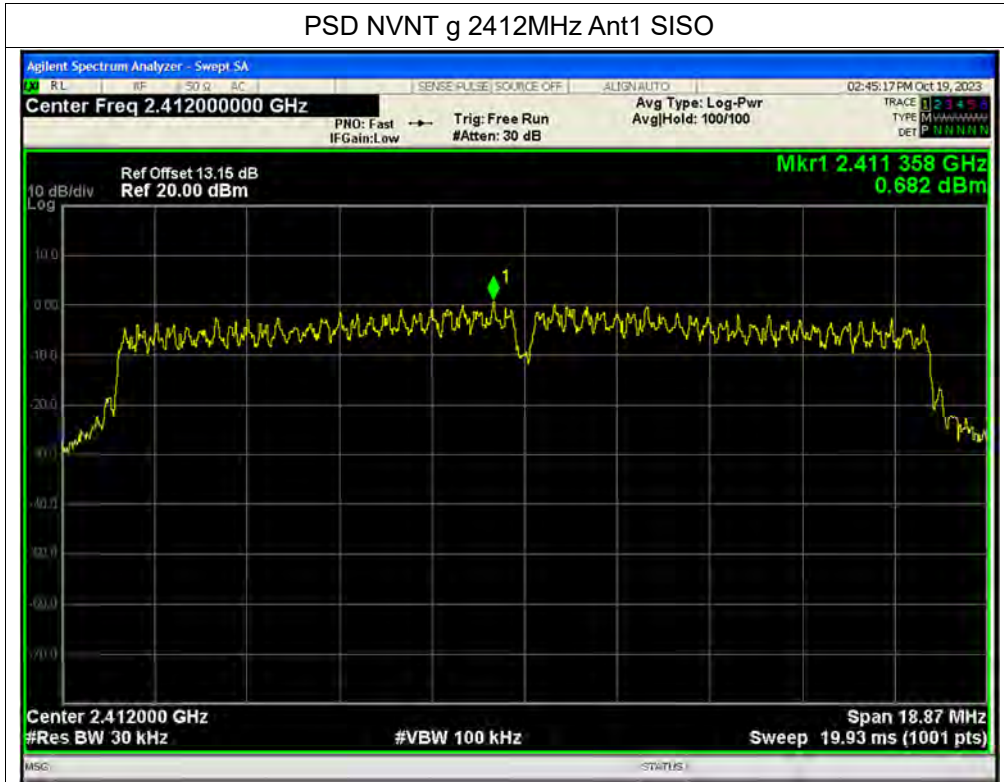


PSD NVNT b 2462MHz Ant2 SISO





PSD NVNT g 2412MHz Ant1 SISO

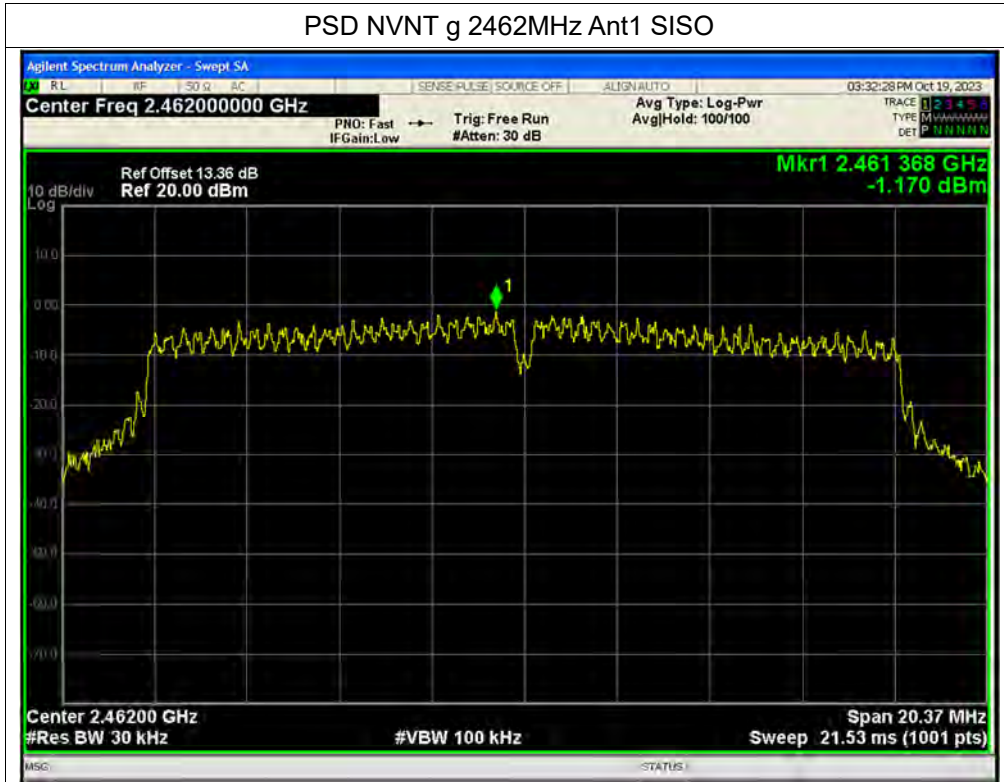


PSD NVNT g 2437MHz Ant1 SISO

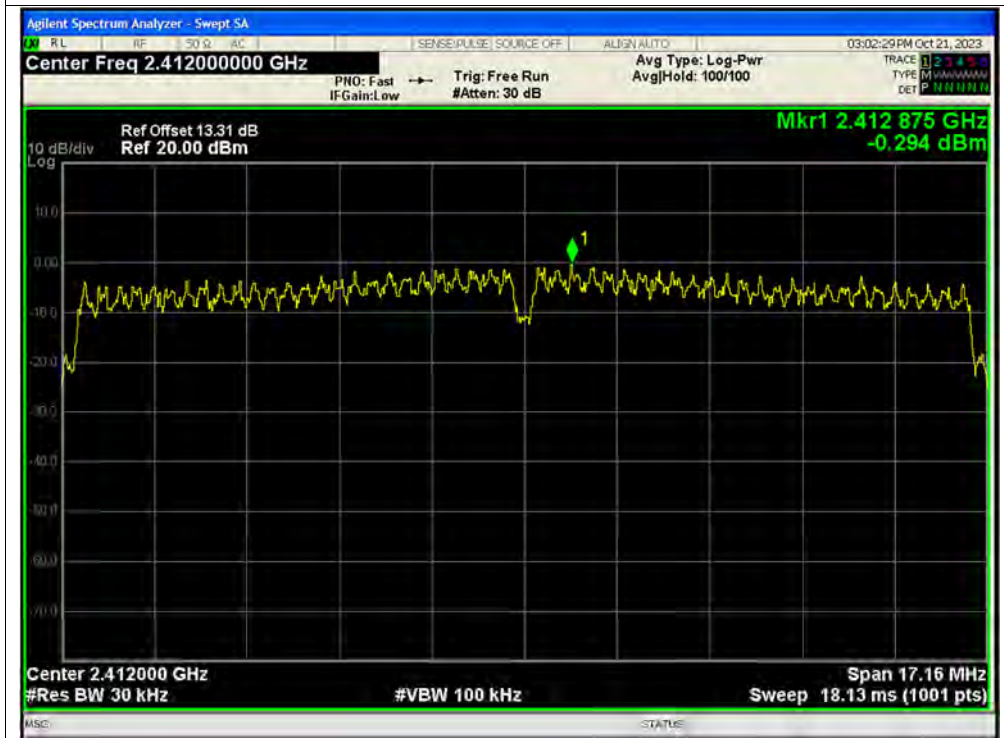




PSD NVNT g 2462MHz Ant1 SISO

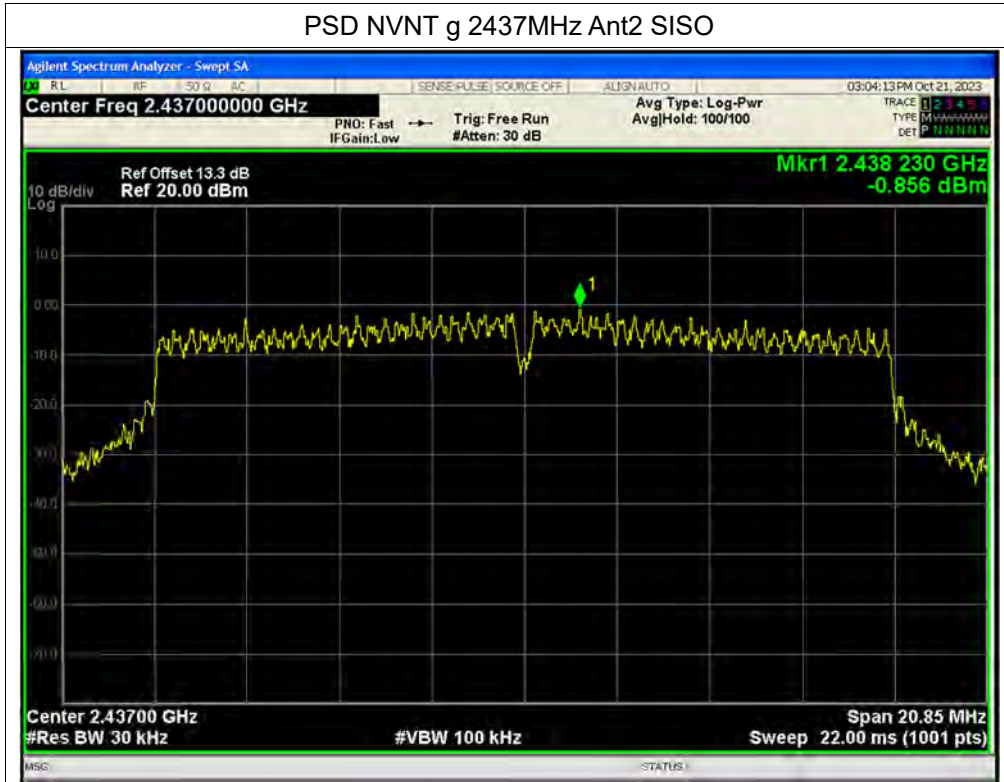


PSD NVNT g 2412MHz Ant2 SISO





PSD NVNT g 2437MHz Ant2 SISO

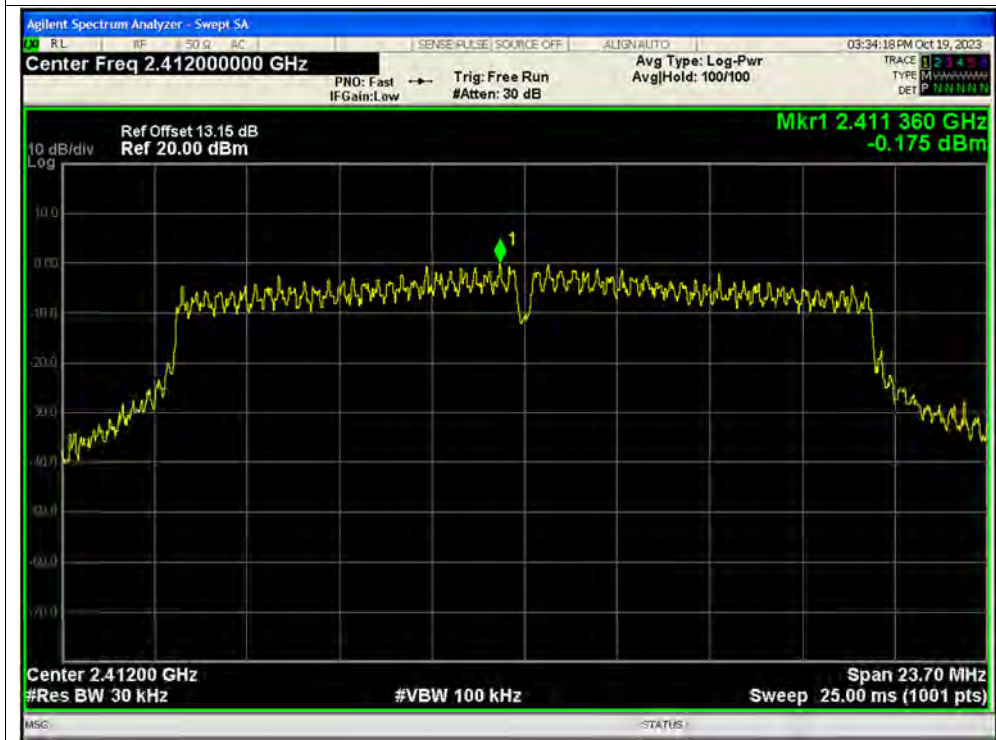


PSD NVNT g 2462MHz Ant2 SISO





PSD NVNT n20 2412MHz Ant1 SISO

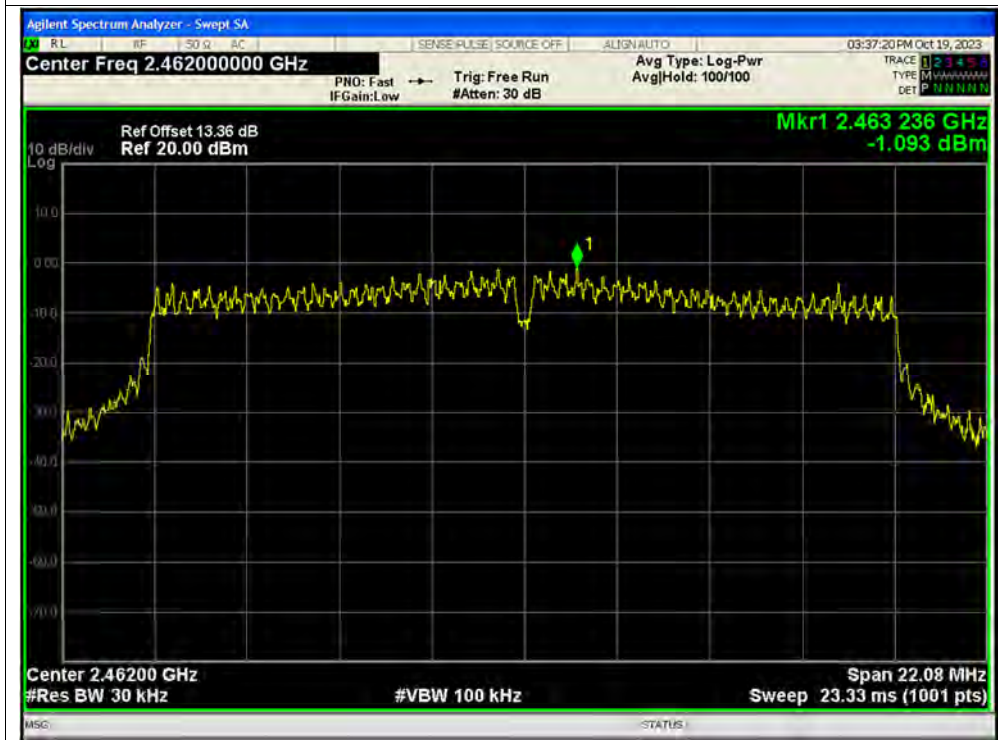


PSD NVNT n20 2437MHz Ant1 SISO

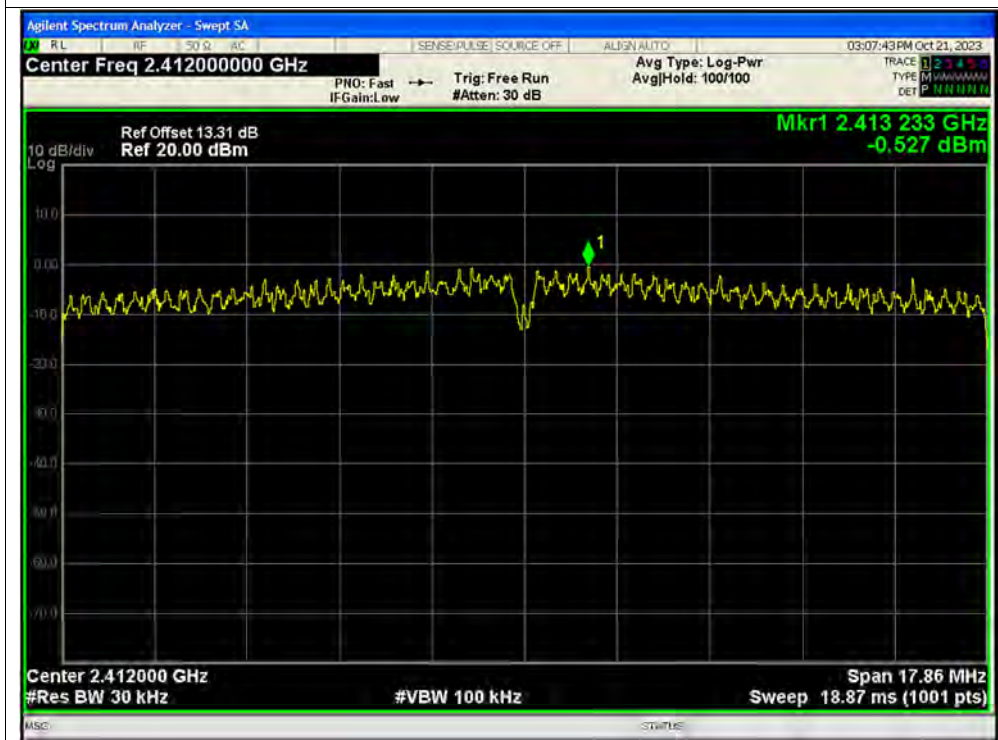




PSD NVNT n20 2462MHz Ant1 SISO

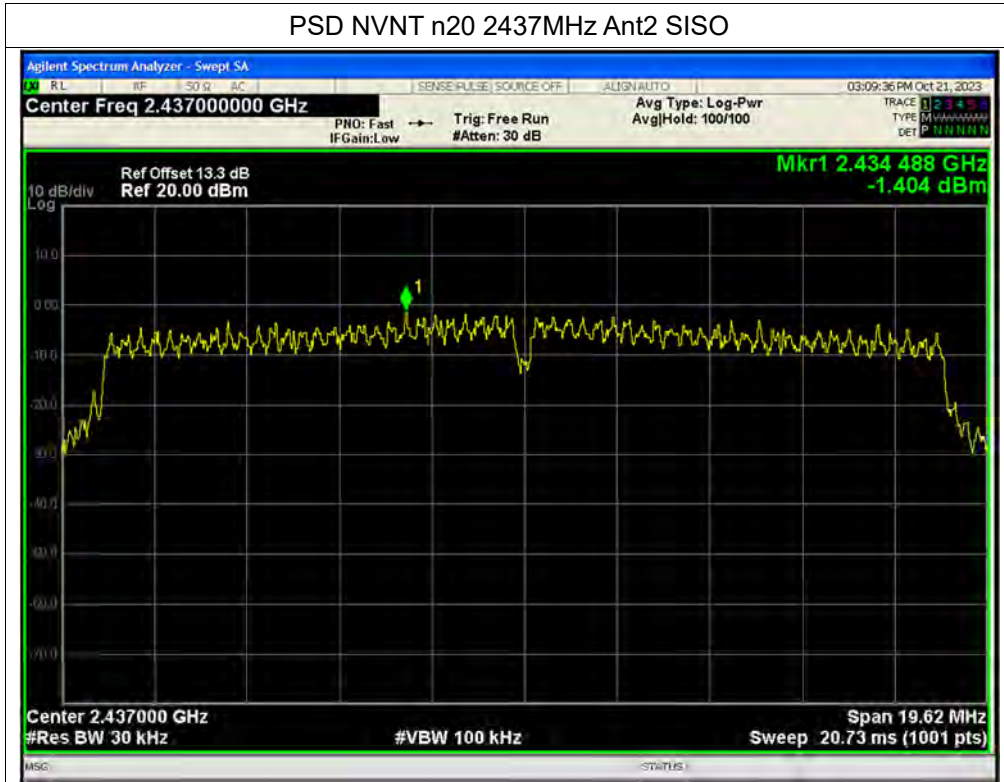


PSD NVNT n20 2412MHz Ant2 SISO

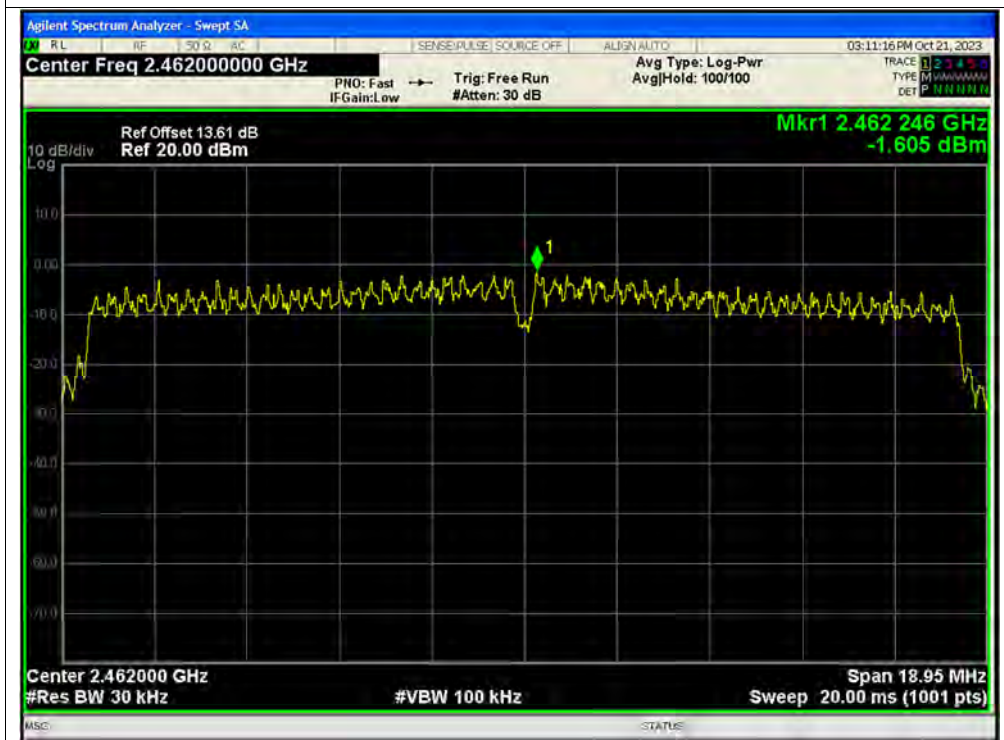




PSD NVNT n20 2437MHz Ant2 SISO

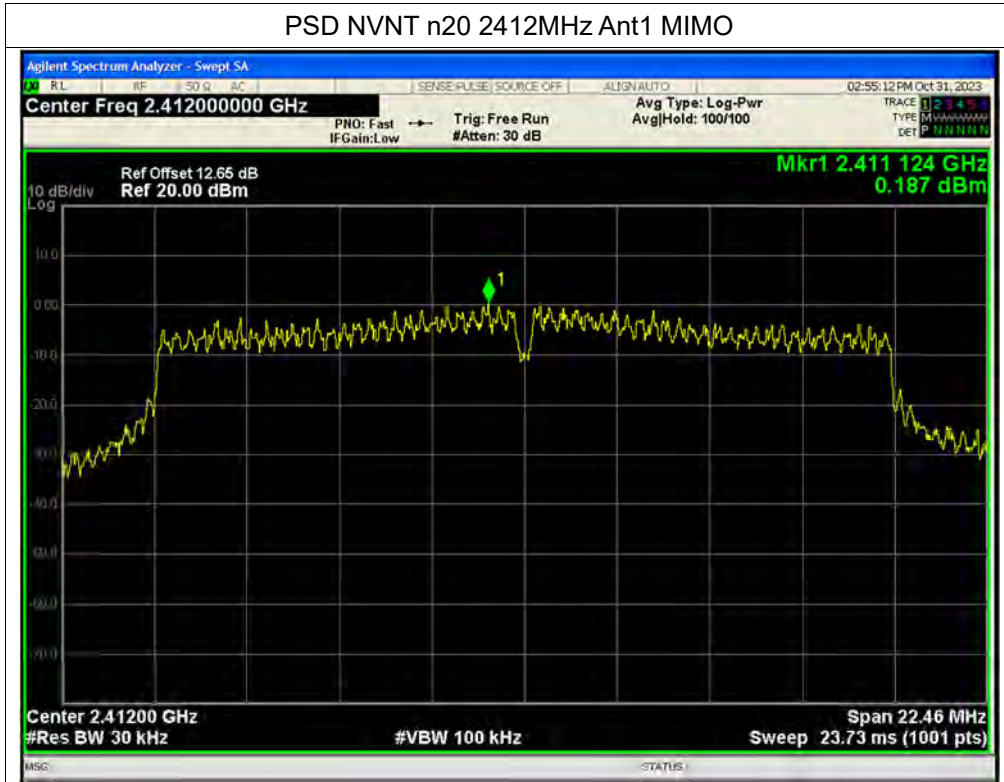


PSD NVNT n20 2462MHz Ant2 SISO

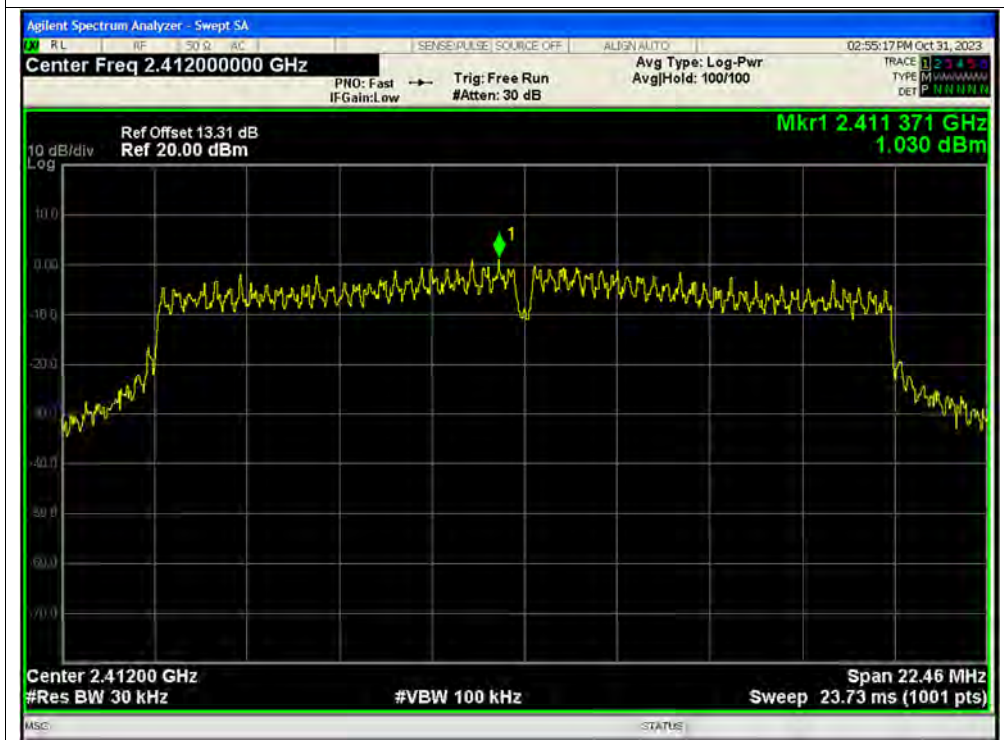




PSD NVNT n20 2412MHz Ant1 MIMO



PSD NVNT n20 2412MHz Ant2 MIMO





PSD NVNT n20 2437MHz Ant1 MIMO



PSD NVNT n20 2437MHz Ant2 MIMO

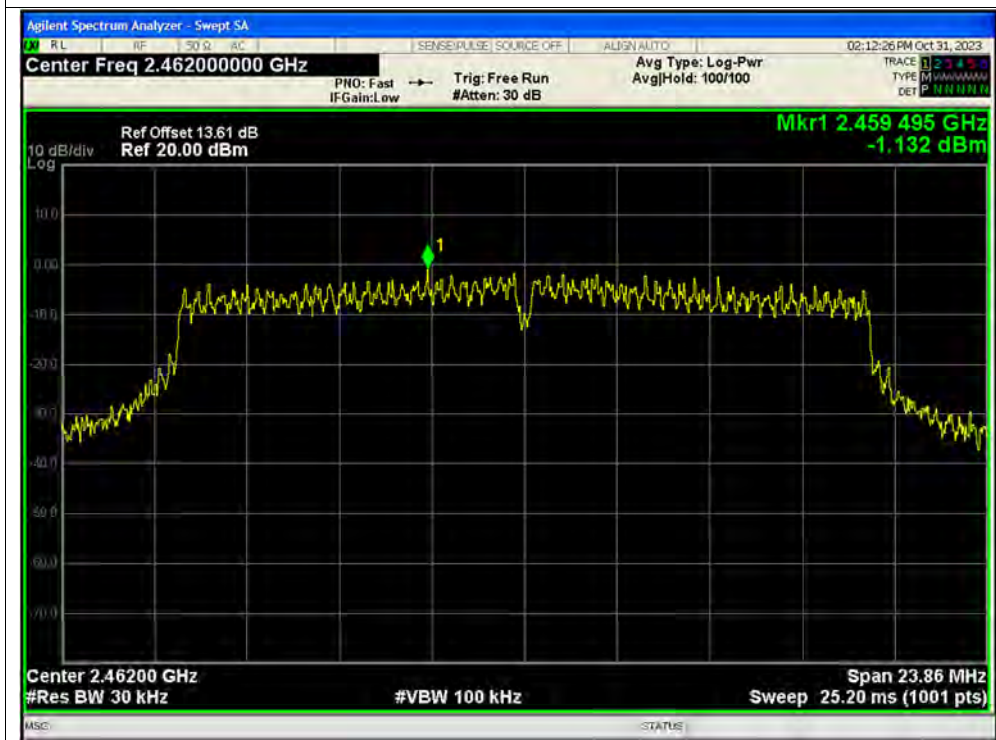




PSD NVNT n20 2462MHz Ant1 MIMO



PSD NVNT n20 2462MHz Ant2 MIMO





PSD NVNT n40 2422MHz Ant1 SISO



PSD NVNT n40 2437MHz Ant1 SISO





PSD NVNT n40 2452MHz Ant1 SISO

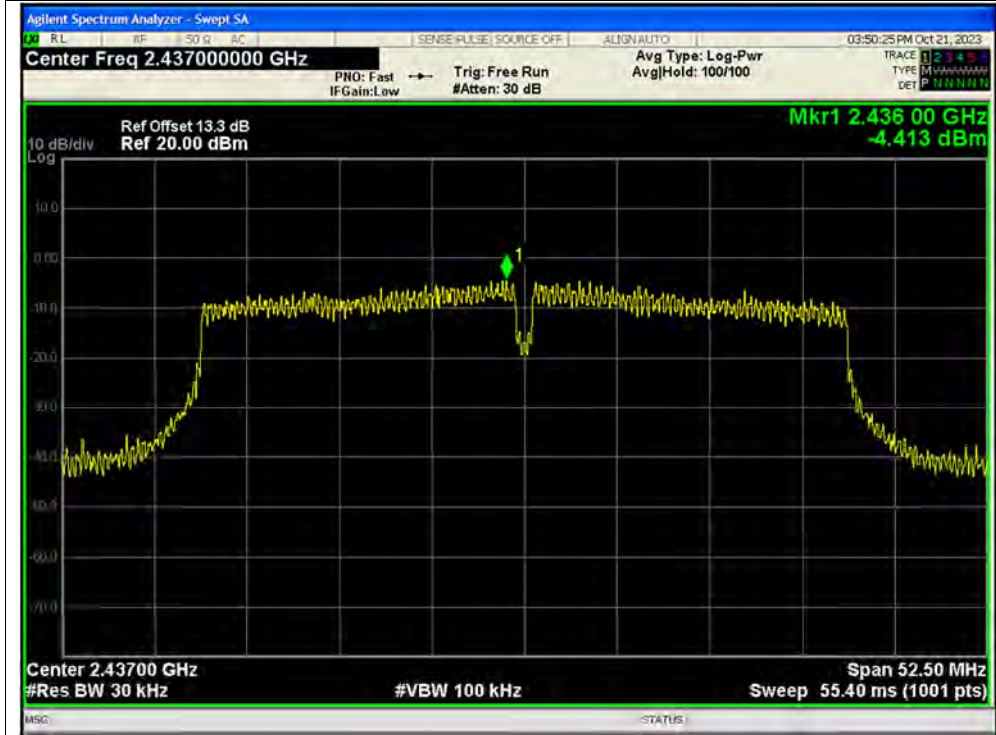


PSD NVNT n40 2422MHz Ant2 SISO





PSD NVNT n40 2437MHz Ant2 SISO



PSD NVNT n40 2452MHz Ant2 SISO

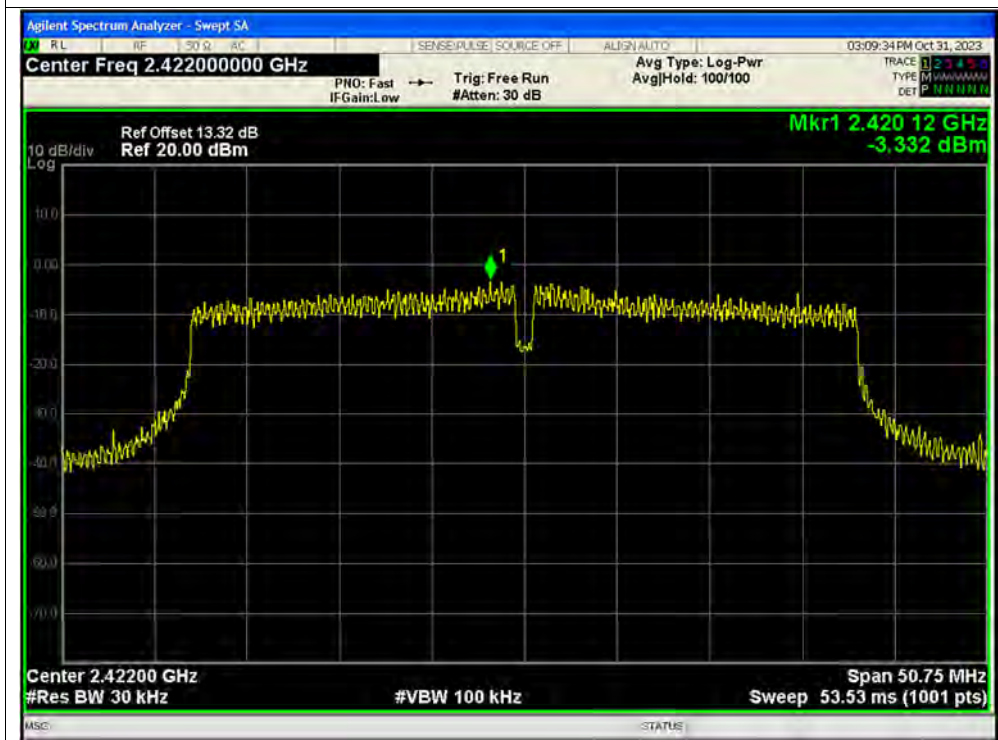




PSD NVNT n40 2422MHz Ant1 MIMO



PSD NVNT n40 2422MHz Ant2 MIMO





PSD NVNT n40 2437MHz Ant1 MIMO



PSD NVNT n40 2437MHz Ant2 MIMO



PSD NVNT n40 2452MHz Ant1 MIMO

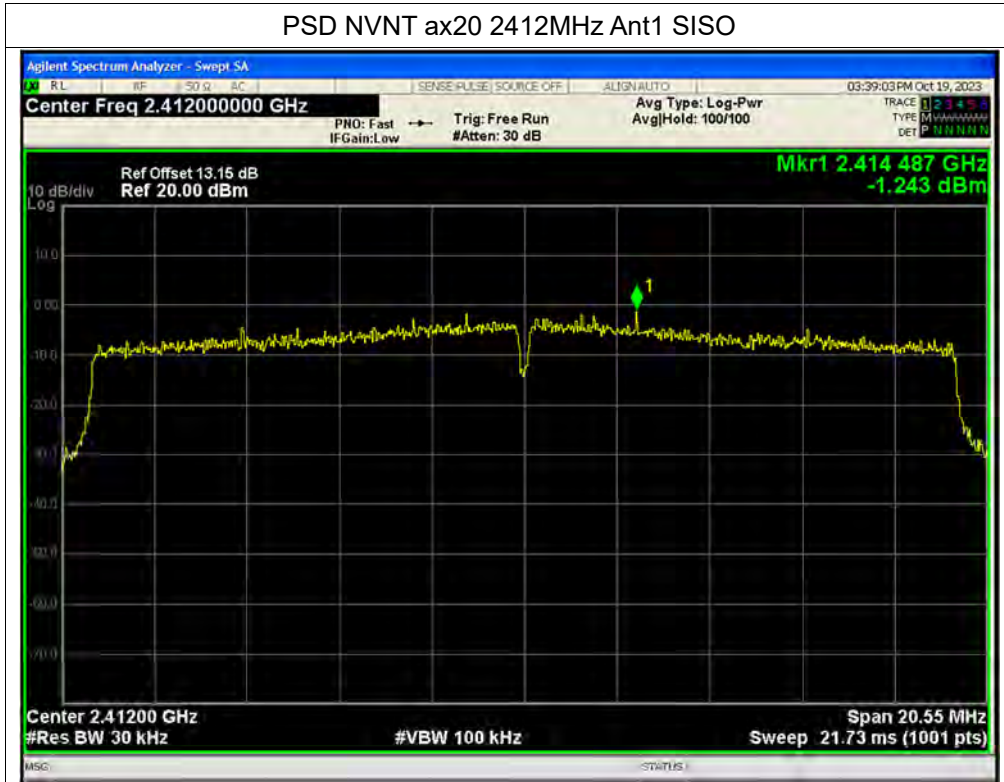


PSD NVNT n40 2452MHz Ant2 MIMO





PSD NVNT ax20 2412MHz Ant1 SISO



PSD NVNT ax20 2437MHz Ant1 SISO





PSD NVNT ax20 2462MHz Ant1 SISO



PSD NVNT ax20 2412MHz Ant2 SISO

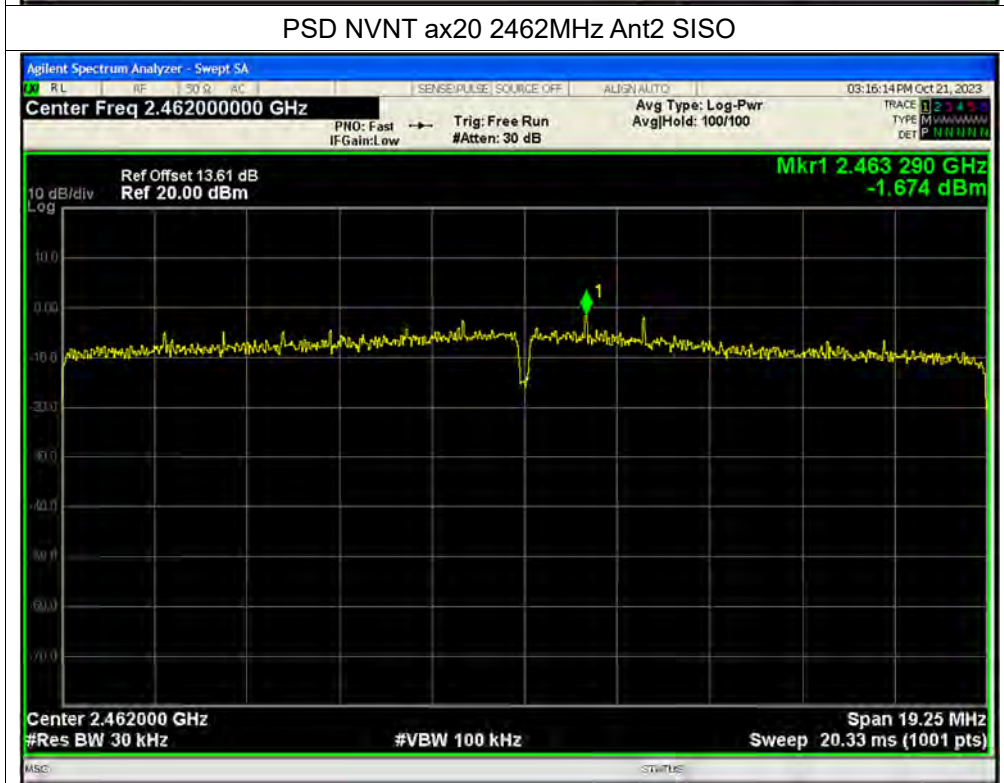




PSD NVNT ax20 2437MHz Ant2 SISO



PSD NVNT ax20 2462MHz Ant2 SISO





PSD NVNT ax20 2412MHz Ant1 MIMO



PSD NVNT ax20 2412MHz Ant2 MIMO





PSD NVNT ax20 2437MHz Ant1 MIMO

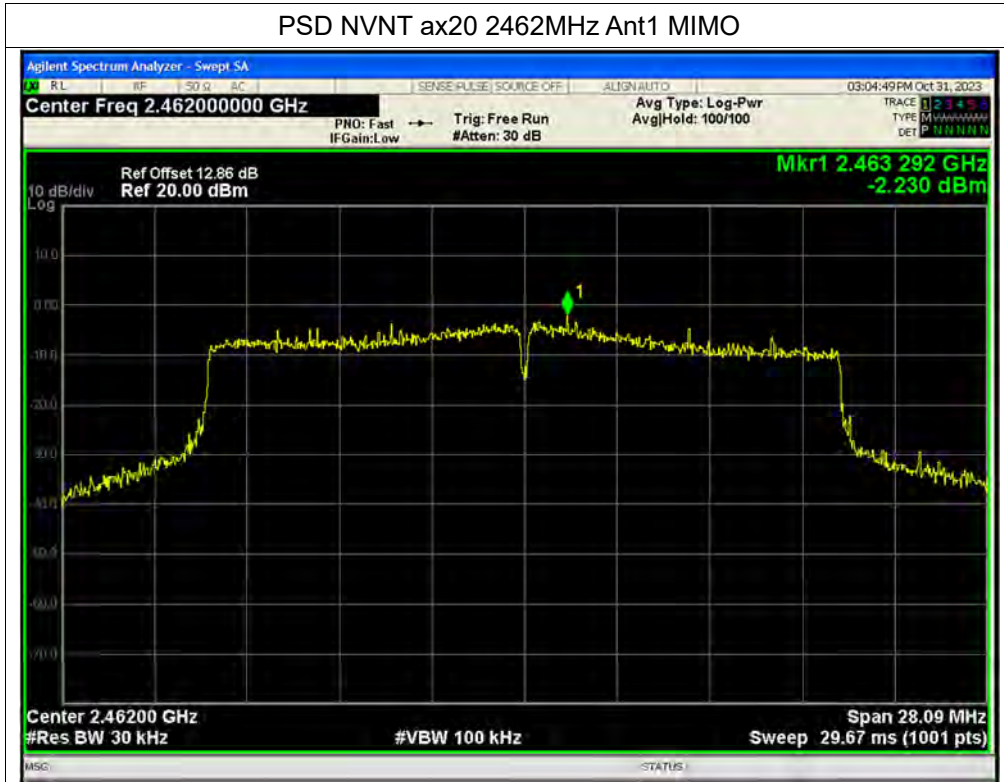


PSD NVNT ax20 2437MHz Ant2 MIMO





PSD NVNT ax20 2462MHz Ant1 MIMO



PSD NVNT ax20 2462MHz Ant2 MIMO





PSD NVNT ax40 2422MHz Ant1 SISO



PSD NVNT ax40 2437MHz Ant1 SISO





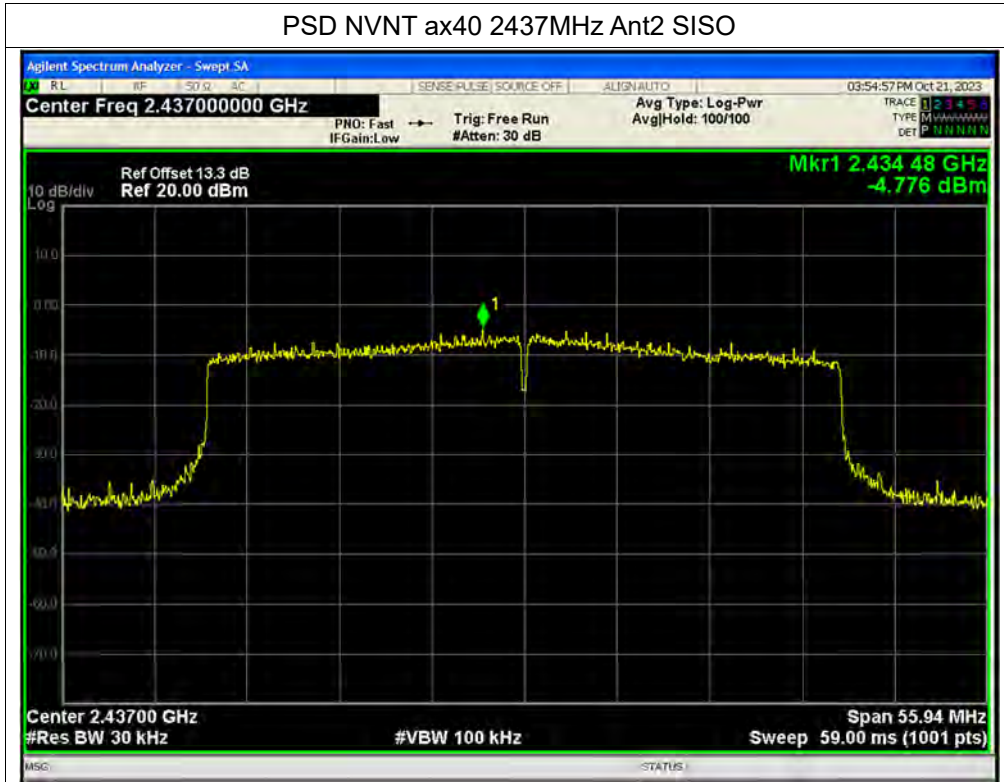
PSD NVNT ax40 2452MHz Ant1 SISO



PSD NVNT ax40 2422MHz Ant2 SISO



PSD NVNT ax40 2437MHz Ant2 SISO



PSD NVNT ax40 2452MHz Ant2 SISO





PSD NVNT ax40 2422MHz Ant1 MIMO



PSD NVNT ax40 2422MHz Ant2 MIMO





PSD NVNT ax40 2437MHz Ant1 MIMO



PSD NVNT ax40 2437MHz Ant2 MIMO



PSD NVNT ax40 2452MHz Ant1 MIMO



PSD NVNT ax40 2452MHz Ant2 MIMO





PSD NVNT ax20 26@0 2412MHz Ant1 SISO



PSD NVNT ax20 26@0 2412MHz Ant2 SISO





PSD NVNT ax20 26@0 2412MHz Ant1 MIMO



PSD NVNT ax20 26@0 2412MHz Ant2 MIMO





PSD NVNT ax20 26@4 2437MHz Ant1 SISO



PSD NVNT ax20 26@4 2437MHz Ant2 SISO





PSD NVNT ax20 26@4 2437MHz Ant1 MIMO



PSD NVNT ax20 26@4 2437MHz Ant2 MIMO





PSD NVNT ax20 26@8 2462MHz Ant1 SISO



PSD NVNT ax20 26@8 2462MHz Ant2 SISO





PSD NVNT ax20 26@8 2462MHz Ant1 MIMO

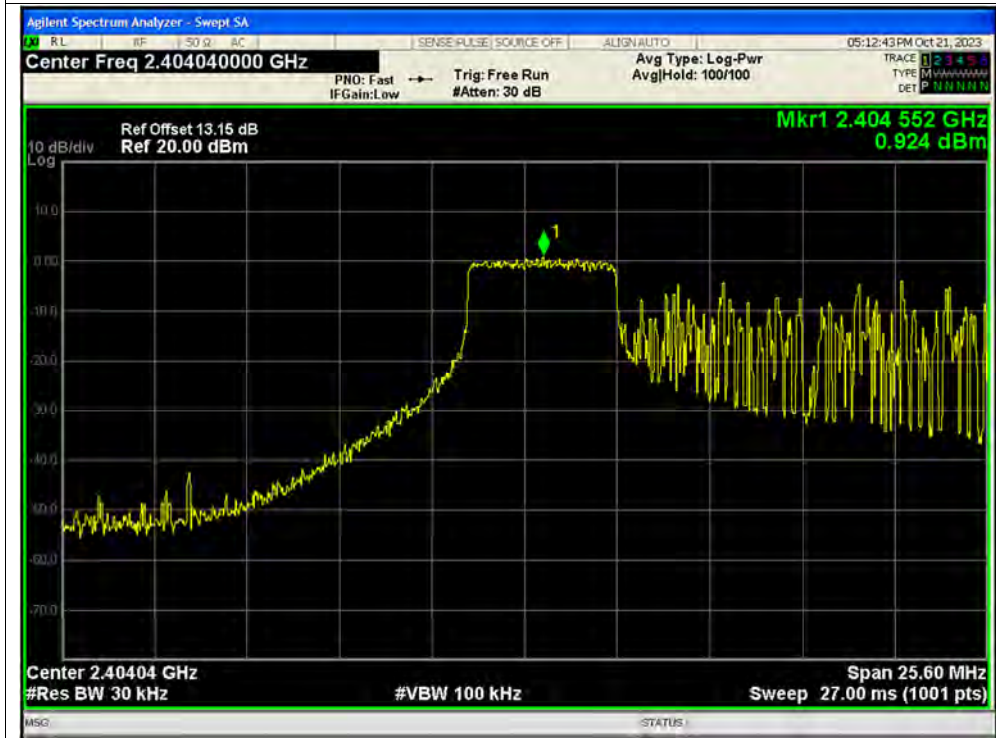


PSD NVNT ax20 26@8 2462MHz Ant2 MIMO





PSD NVNT ax20 52@37 2412MHz Ant1 SISO



PSD NVNT ax20 52@37 2412MHz Ant2 SISO

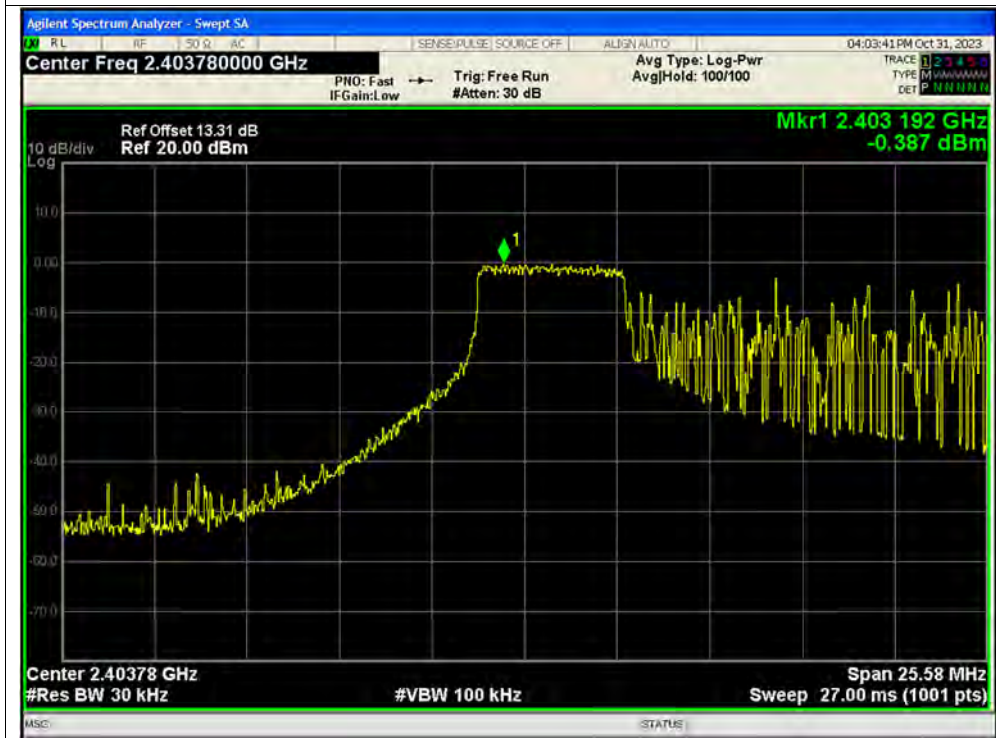




PSD NVNT ax20 52@37 2412MHz Ant1 MIMO



PSD NVNT ax20 52@37 2412MHz Ant2 MIMO





PSD NVNT ax20 52@38 2437MHz Ant1 SISO



PSD NVNT ax20 52@38 2437MHz Ant2 SISO





PSD NVNT ax20 52@38 2437MHz Ant1 MIMO



PSD NVNT ax20 52@38 2437MHz Ant2 MIMO

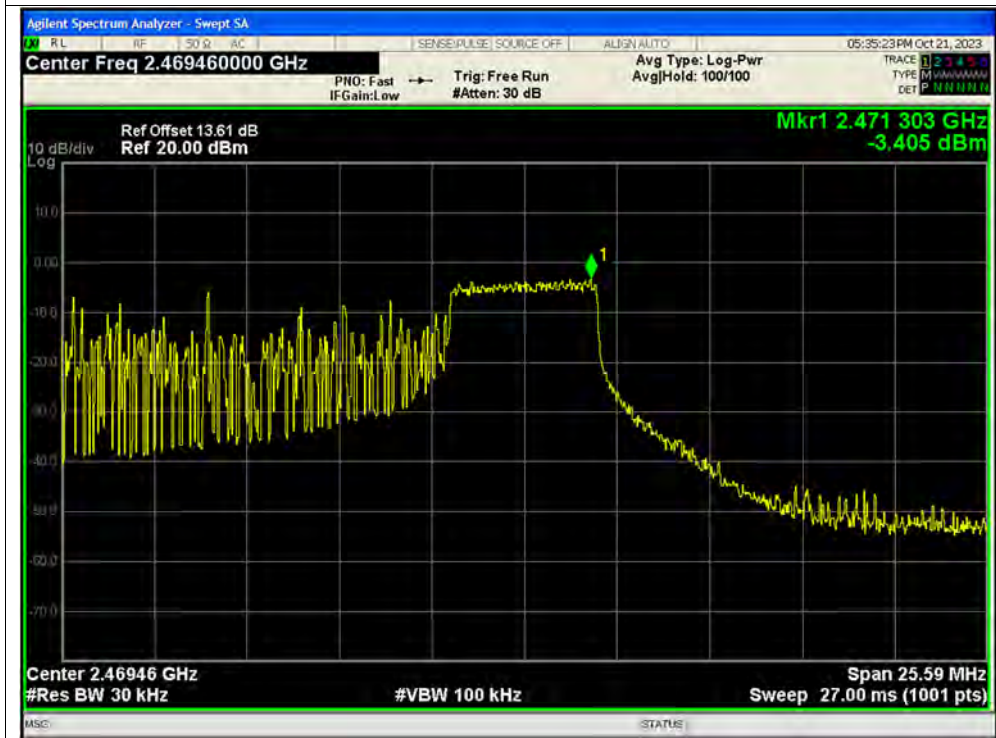




PSD NVNT ax20 52@40 2462MHz Ant1 SISO



PSD NVNT ax20 52@40 2462MHz Ant2 SISO



PSD NVNT ax20 52@40 2462MHz Ant1 MIMO



PSD NVNT ax20 52@40 2462MHz Ant2 MIMO





PSD NVNT ax20 106@53 2412MHz Ant1 SISO



PSD NVNT ax20 106@53 2437MHz Ant1 SISO





PSD NVNT ax20 106@53 2412MHz Ant2 SISO

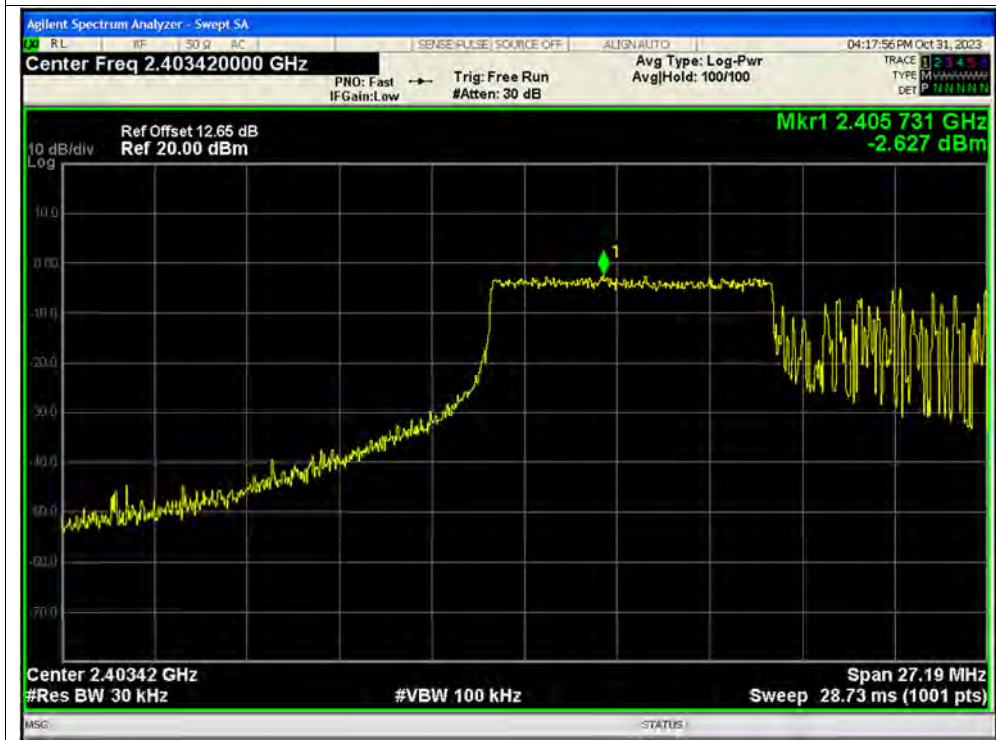


PSD NVNT ax20 106@53 2437MHz Ant2 SISO





PSD NVNT ax20 106@53 2412MHz Ant1 MIMO



PSD NVNT ax20 106@53 2412MHz Ant2 MIMO





PSD NVNT ax20 106@53 2437MHz Ant1 MIMO



PSD NVNT ax20 106@53 2437MHz Ant2 MIMO





PSD NVNT ax20 106@54 2462MHz Ant1 SISO



PSD NVNT ax20 106@54 2462MHz Ant2 SISO





PSD NVNT ax20 106@54 2462MHz Ant1 MIMO

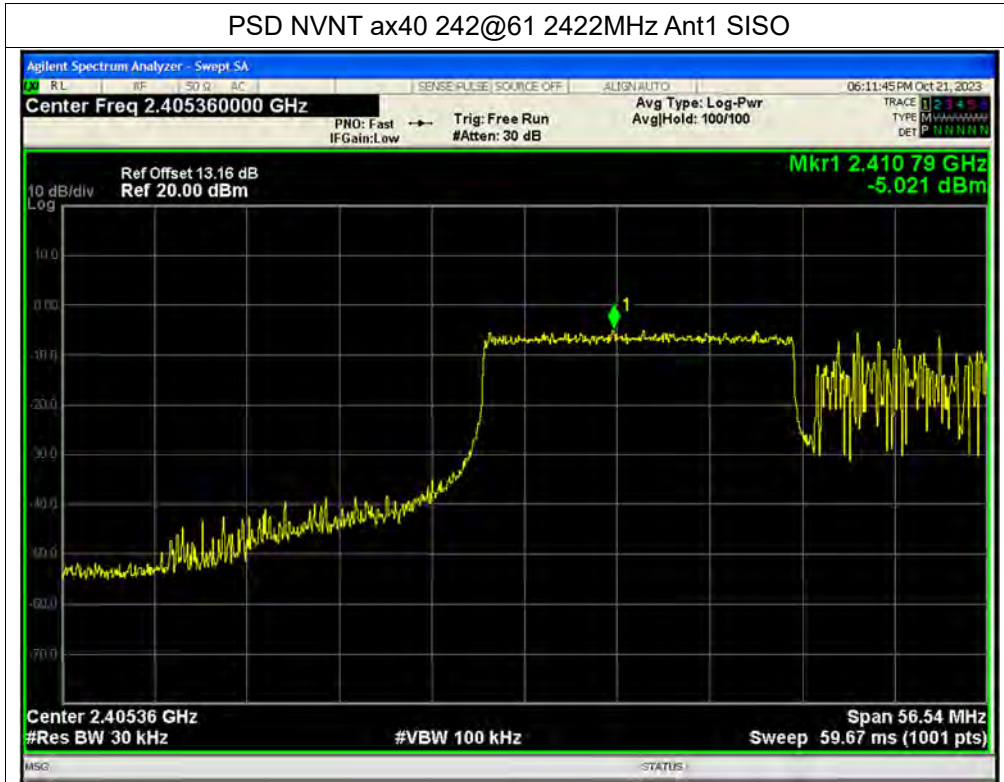


PSD NVNT ax20 106@54 2462MHz Ant2 MIMO





PSD NVNT ax40 242@61 2422MHz Ant1 SISO

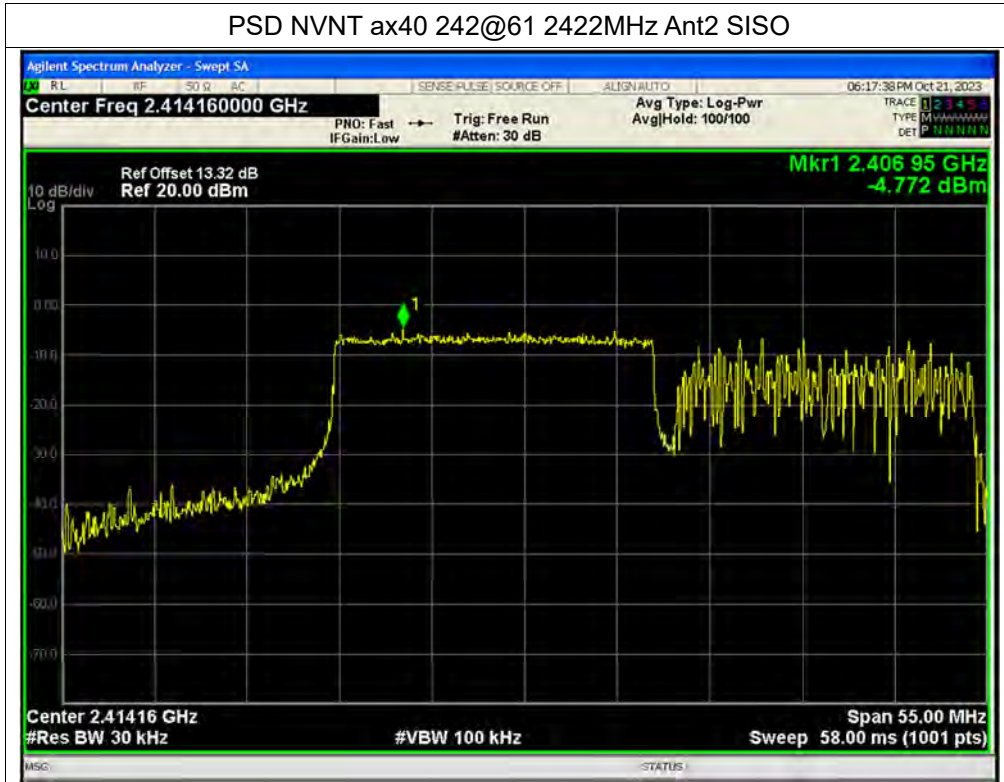


PSD NVNT ax40 242@61 2437MHz Ant1 SISO

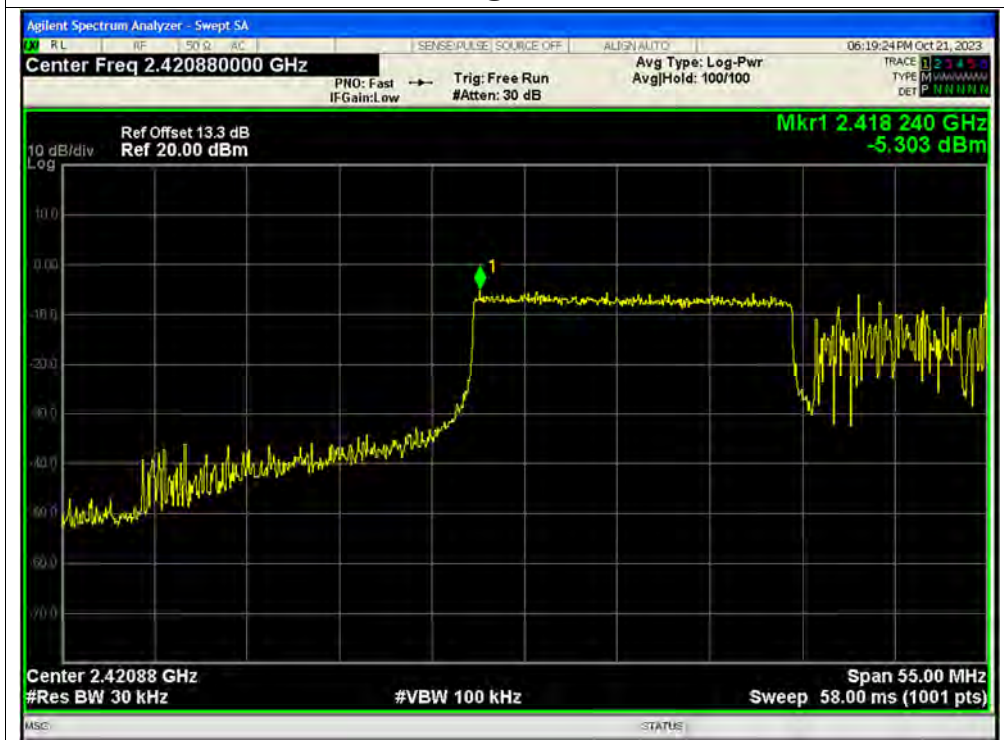




PSD NVNT ax40 242@61 2422MHz Ant2 SISO

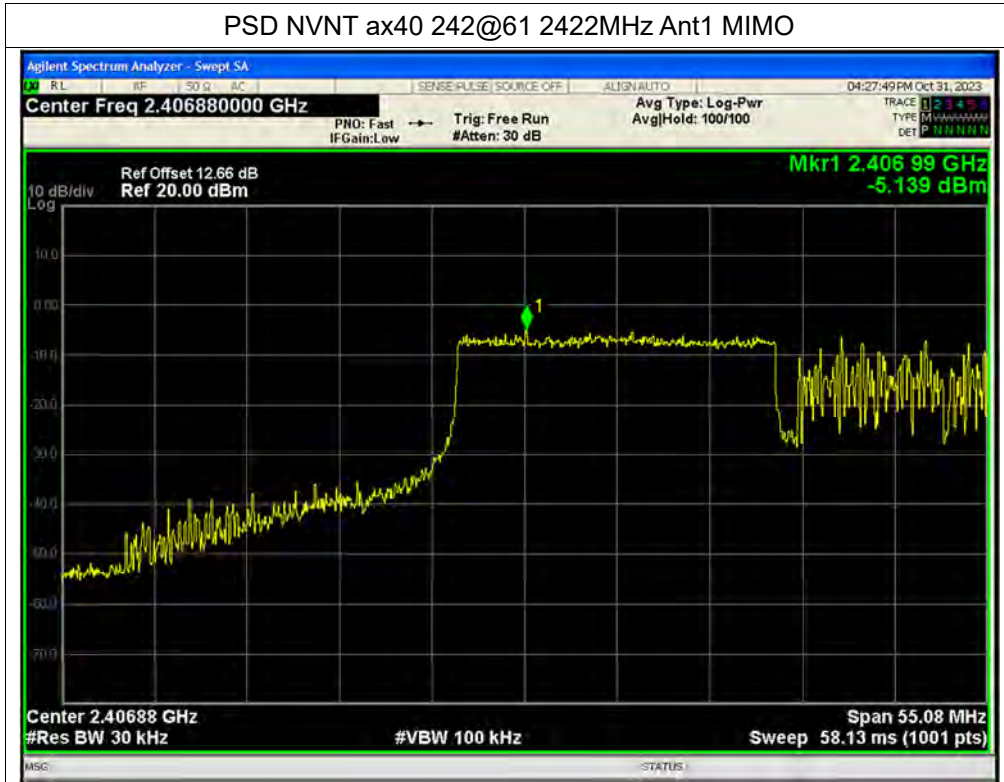


PSD NVNT ax40 242@61 2437MHz Ant2 SISO





PSD NVNT ax40 242@61 2422MHz Ant1 MIMO



PSD NVNT ax40 242@61 2422MHz Ant2 MIMO





PSD NVNT ax40 242@61 2437MHz Ant1 MIMO



PSD NVNT ax40 242@61 2437MHz Ant2 MIMO





PSD NVNT ax40 242@62 2452MHz Ant1 SISO



PSD NVNT ax40 242@62 2452MHz Ant2 SISO





PSD NVNT ax40 242@62 2452MHz Ant1 MIMO



PSD NVNT ax40 242@62 2452MHz Ant2 MIMO





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+USB Cable+PC Adapter+PC+WIFI TX

Test voltage: AC 120V/60Hz

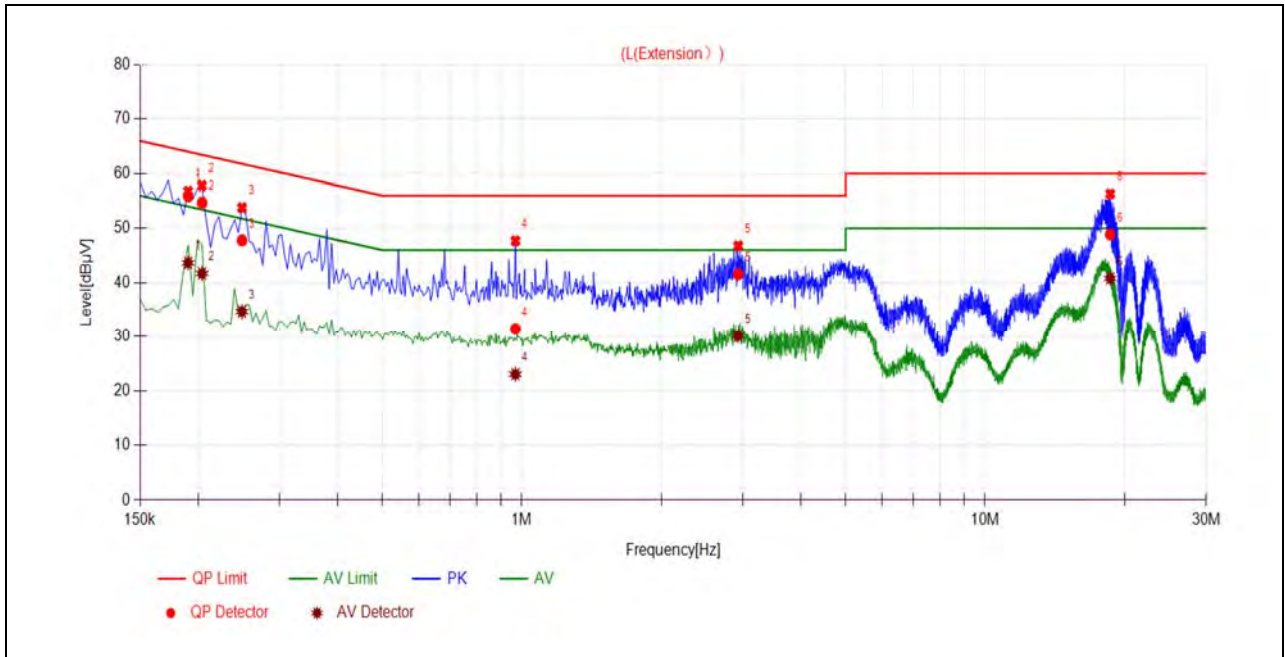
The measurement results are obtained as below:

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

U_R : Receiver Reading

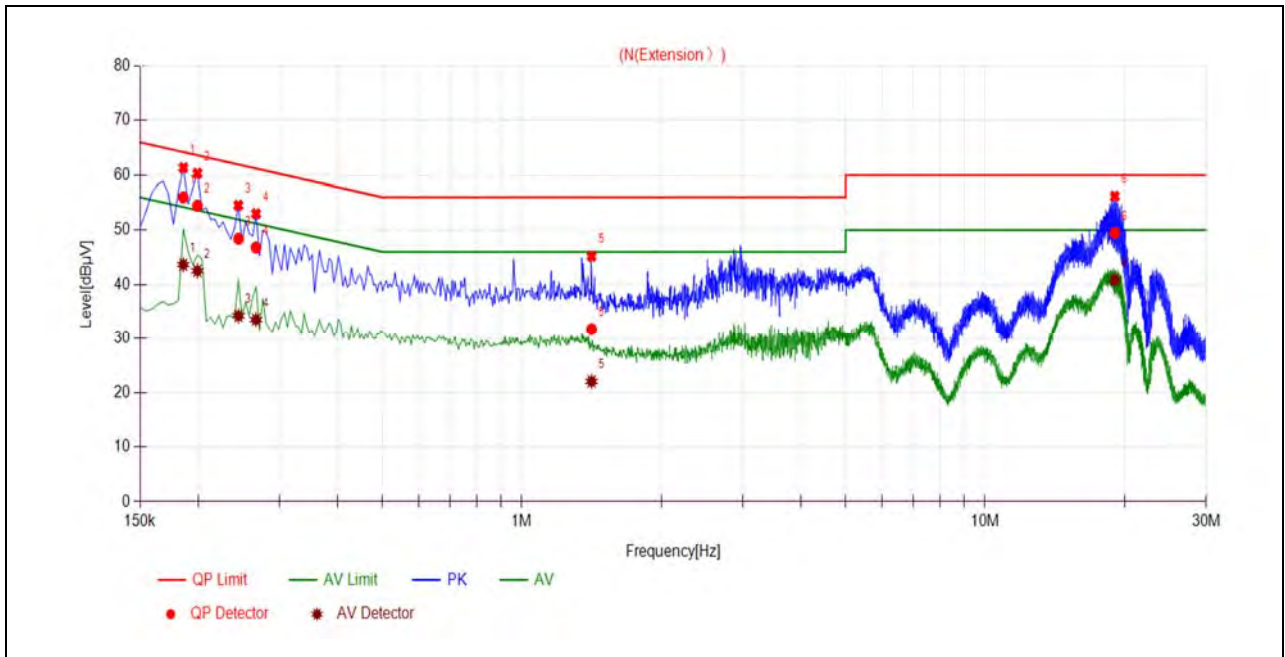
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1905	55.90	43.65	64.01	54.01	Line	PASS
2	0.2041	54.70	41.71	63.44	53.44		PASS
3	0.2489	47.80	34.67	61.79	51.79		PASS
4	0.9685	31.43	23.00	56.00	46.00		PASS
5	2.9301	41.56	30.10	56.00	46.00		PASS
6	18.6247	48.90	40.80	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1859	56.00	43.66	64.22	54.22	Neutral	PASS
2	0.1994	54.47	42.53	63.63	53.63		PASS
3	0.2446	48.45	34.27	61.94	51.94		PASS
4	0.2668	46.81	33.57	61.22	51.22		PASS
5	1.4148	31.76	22.03	56.00	46.00		PASS
6	19.0457	49.47	40.87	60.00	50.00		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

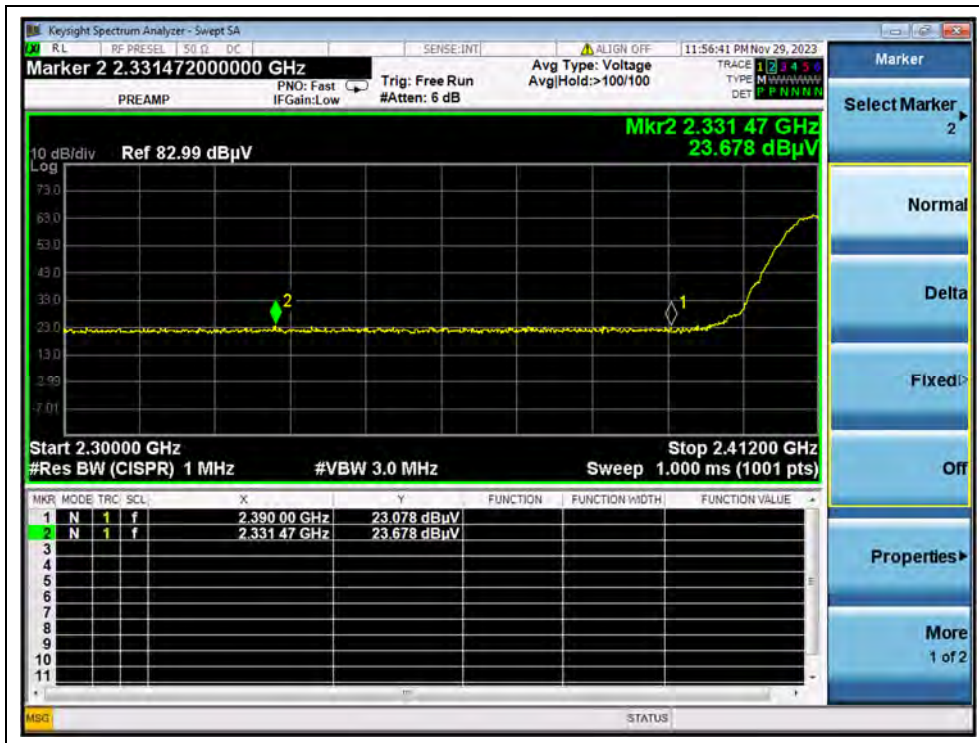
A_{Factor} : Antenna Factor at 3m

Note 1: 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.

Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11b Mode

Channel	Frequency (MHz)	Detector	Receiver Reading	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV	U_R (dB μ V)					
1	2331.47	PK	23.68	6.74	27.20	57.62	74	PASS
1	2388.03	AV	10.67	6.74	27.20	44.61	54	PASS
11	2489.82	PK	23.18	6.74	27.20	57.12	74	PASS
11	2483.50	AV	10.49	6.74	27.20	44.43	54	PASS



(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 11, 802.11b)

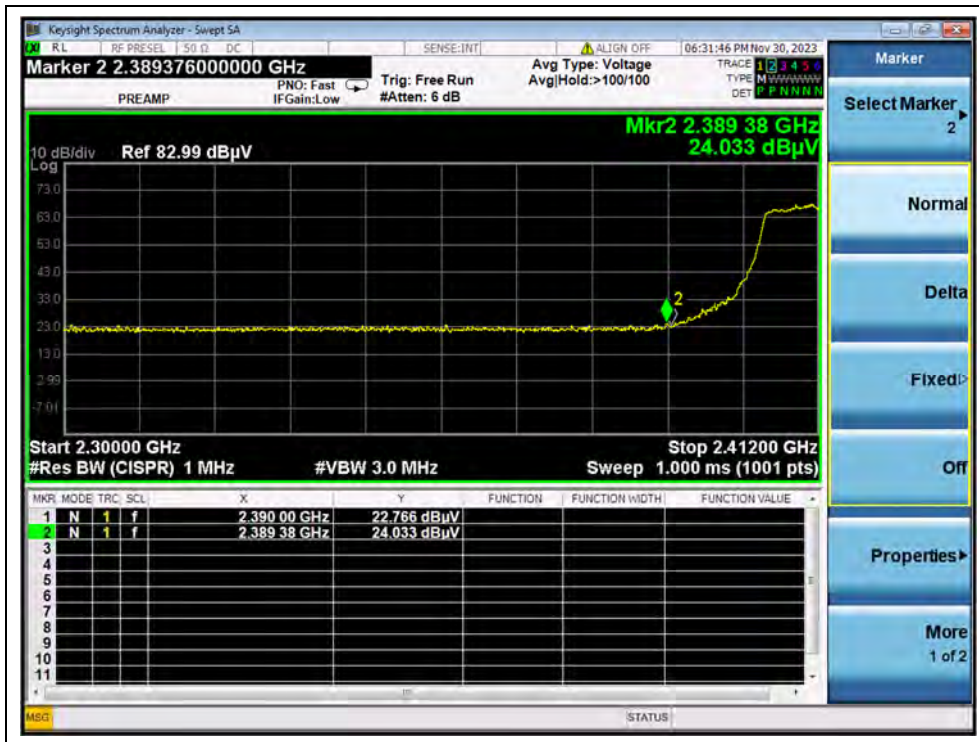


(AVERAGE, Channel 11, 802.11b)

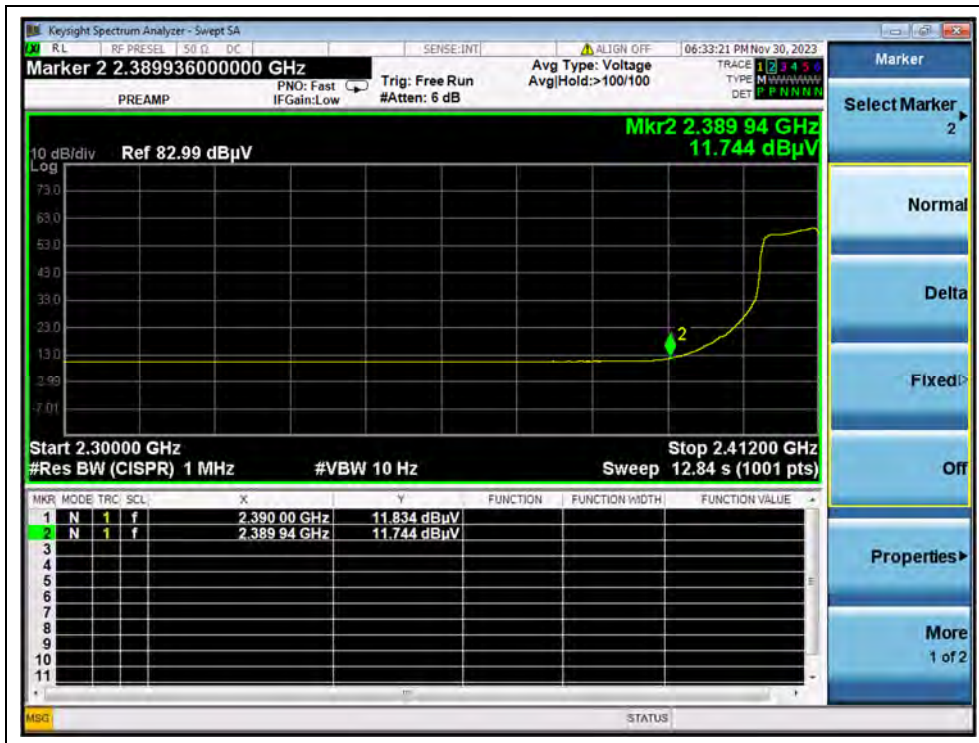


802.11g Mode

Channel	Frequency (MHz)	Detector	Receiver Reading	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV	U _R (dBμV)					
1	2389.38	PK	24.03	6.74	27.20	57.97	74	PASS
1	2390.00	AV	11.83	6.74	27.20	45.77	54	PASS
11	2483.77	PK	25.28	6.74	27.20	59.22	74	PASS
11	2483.50	AV	12.67	6.74	27.20	46.61	54	PASS



(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 11, 802.11g)

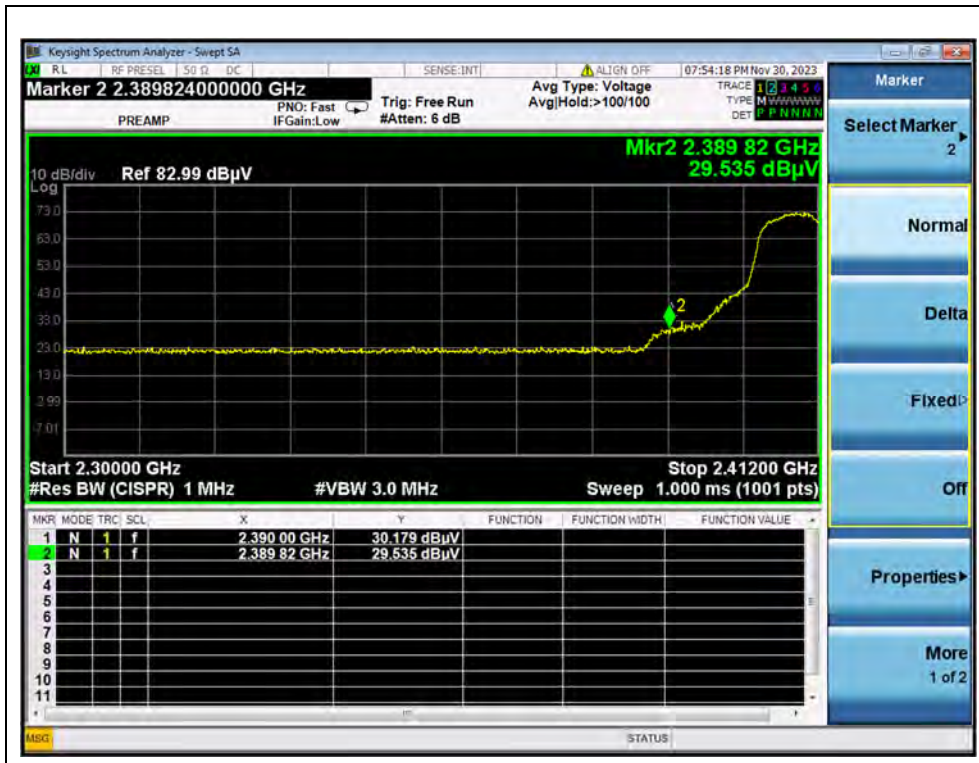


(AVERAGE, Channel 11, 802.11g)



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	30.18	6.74	27.20	64.12	74	PASS
1	2390.00	AV	17.42	6.74	27.20	51.36	54	PASS
11	2484.46	PK	27.62	6.74	27.20	61.56	74	PASS
11	2484.50	AV	15.15	6.74	27.20	49.09	54	PASS



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



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



(PEAK, Channel 11, 802.11n (HT20))

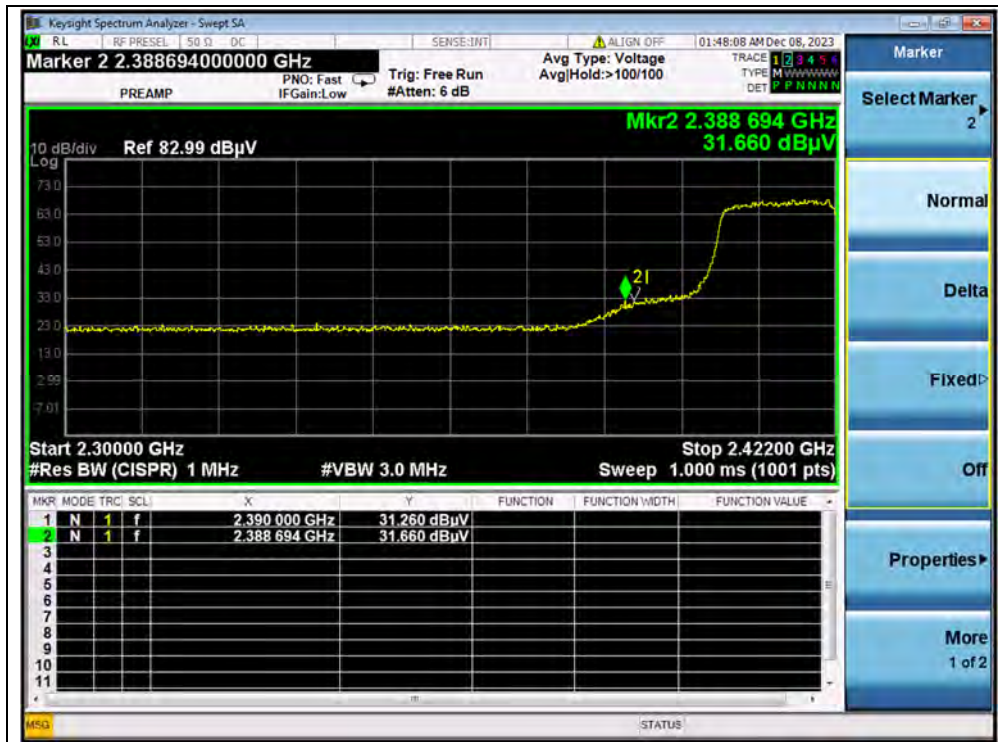


(AVERAGE, Channel 11, 802.11n (HT20))

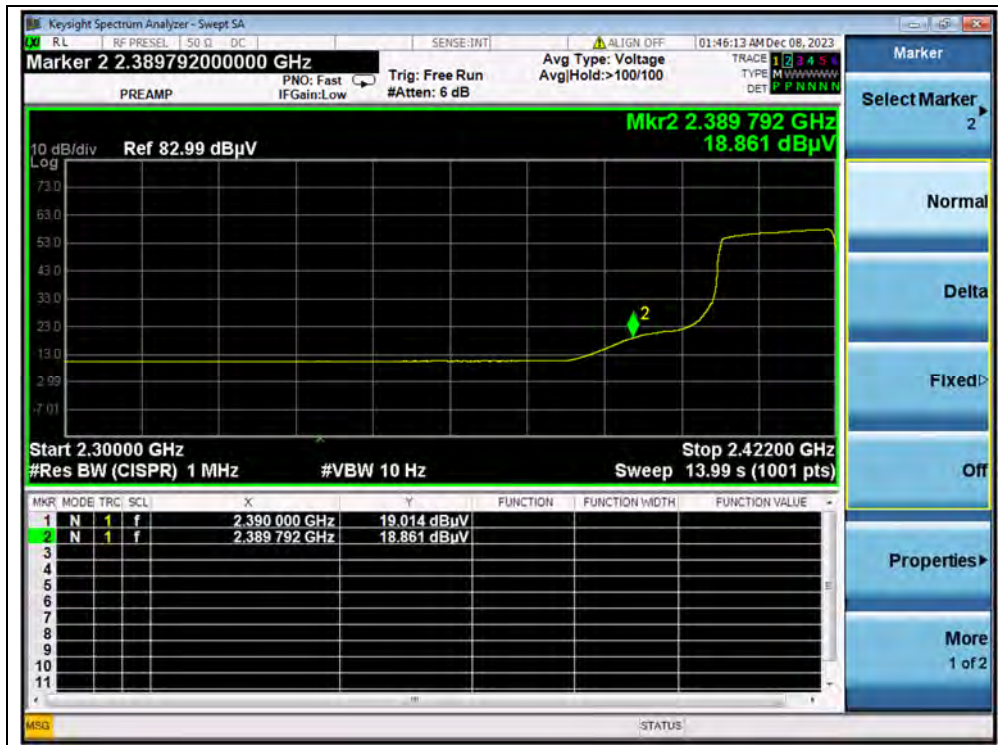


802.11n (HT40) Mode

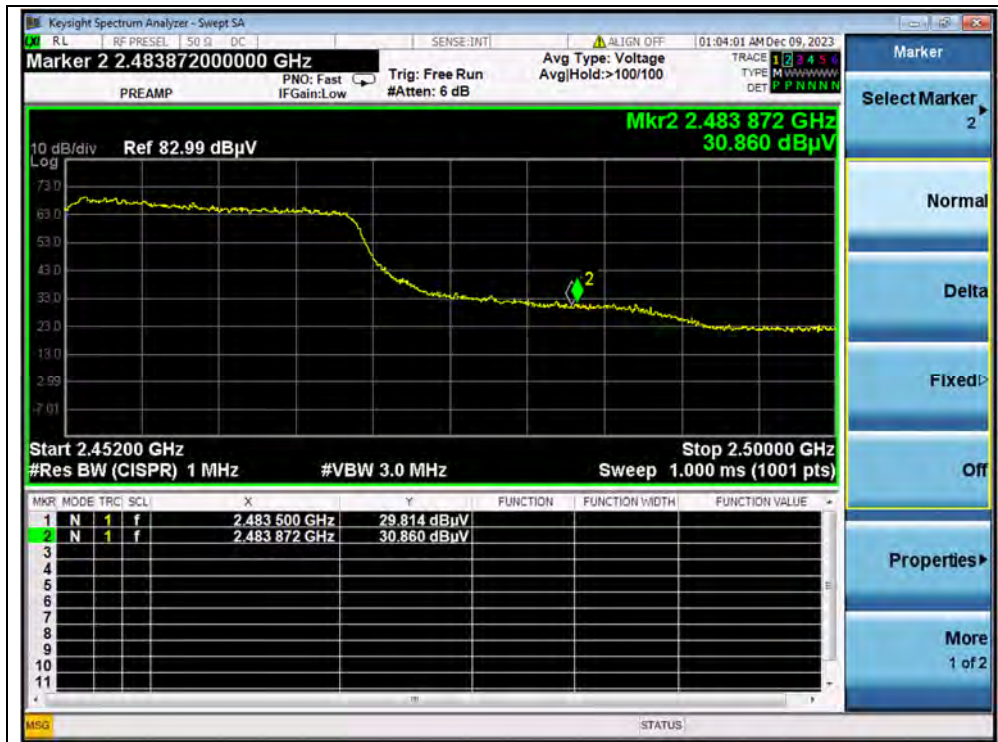
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
3	2388.69	PK	31.66	6.74	27.20	65.60	74	PASS
3	2390.00	AV	19.01	6.74	27.20	52.95	54	PASS
9	2483.87	PK	30.86	6.74	27.20	64.80	74	PASS
9	2483.50	AV	17.78	6.74	27.20	51.72	54	PASS



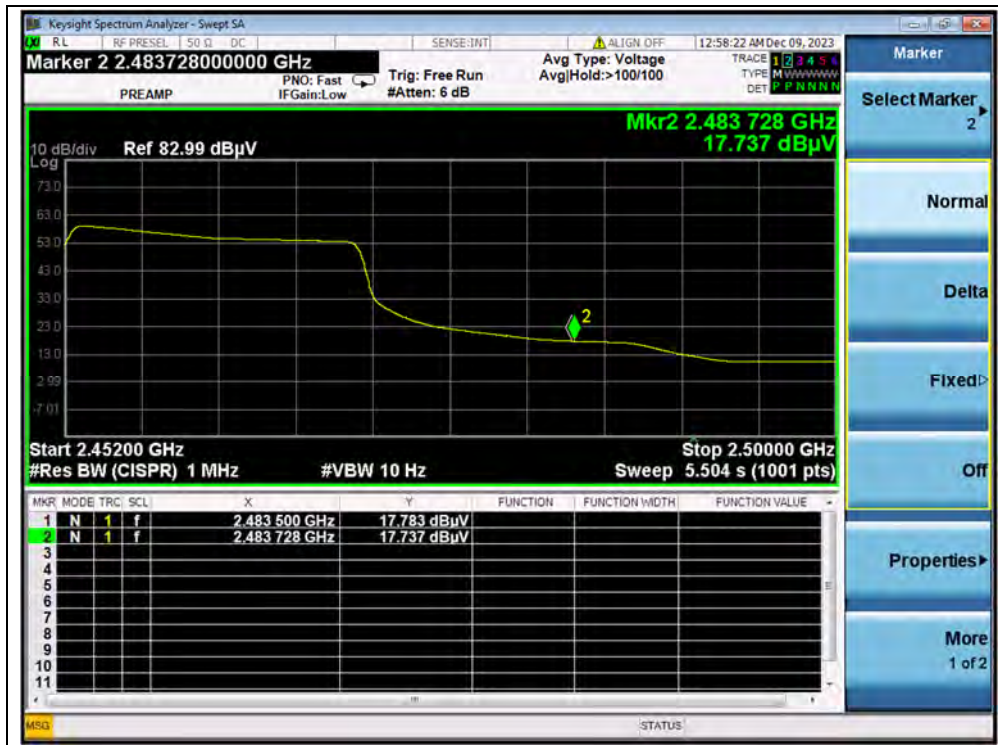
(PEAK, Channel 3, 802.11n (HT40))



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



(PEAK, Channel 9, 802.11n (HT40))

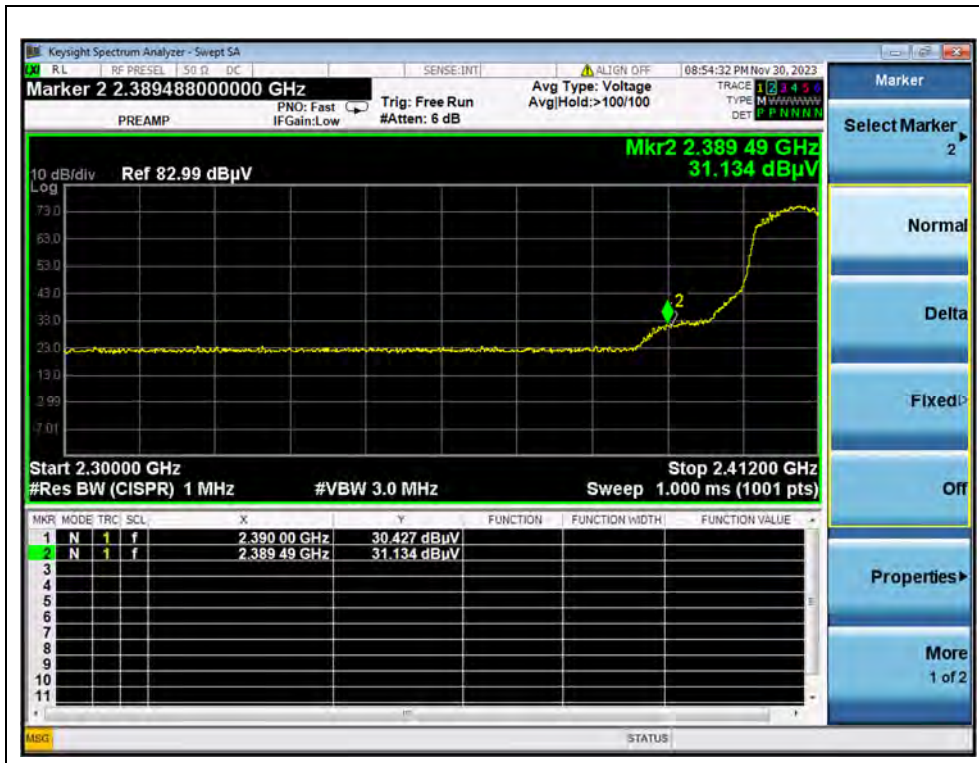


(AVERAGE, Channel 9, 802.11n (HT40))



802.11ax (HEW20) 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	2389.49	PK	31.13	6.74	27.20	65.07	74	PASS
1	2390.00	AV	18.50	6.74	27.20	52.44	54	PASS
11	2484.61	PK	31.46	6.74	27.20	65.40	74	PASS
11	2484.57	AV	17.33	6.74	27.20	51.27	54	PASS



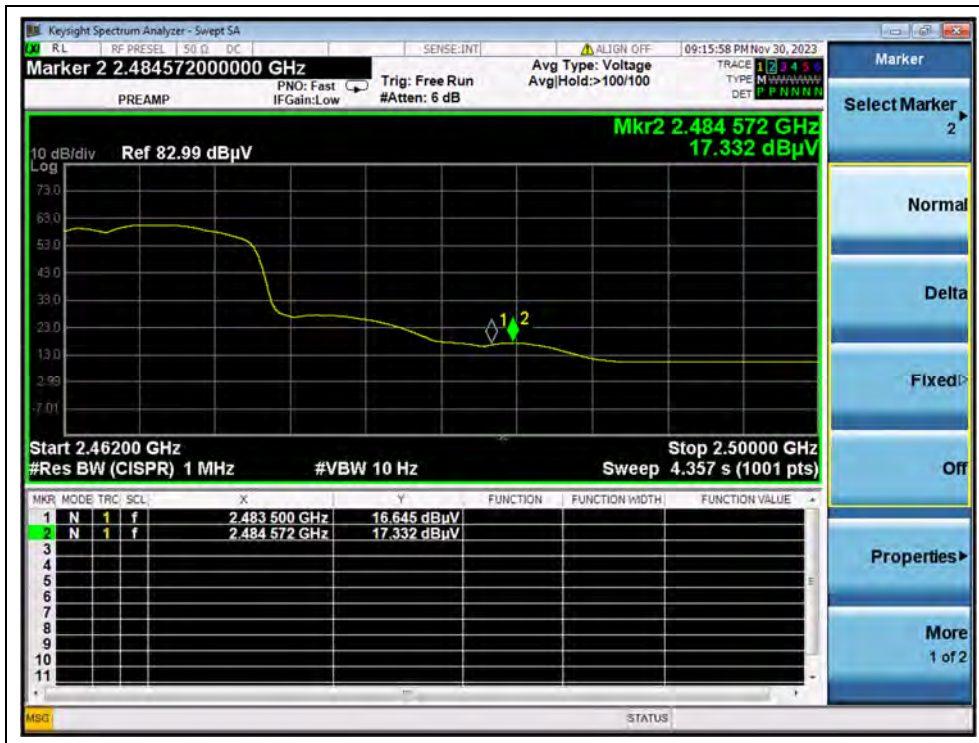
(PEAK, Channel 1, 802.11ax (HEW20))



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



(PEAK, Channel 11, 802.11ax (HEW20))

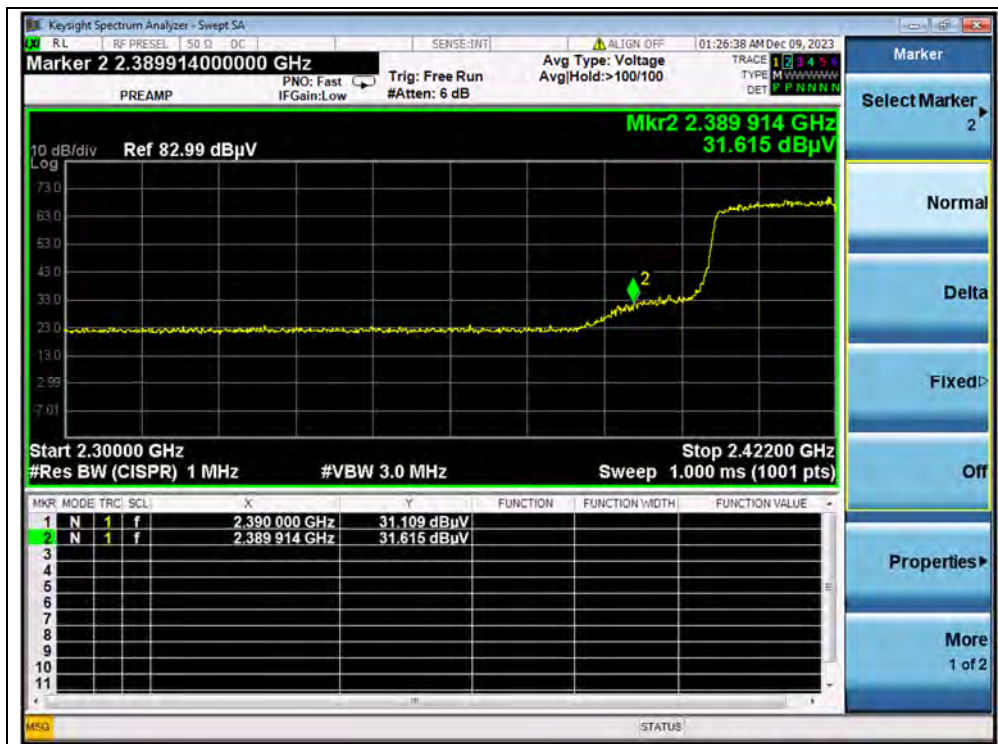


(AVERAGE, Channel 11, 802.11ax (HEW20))

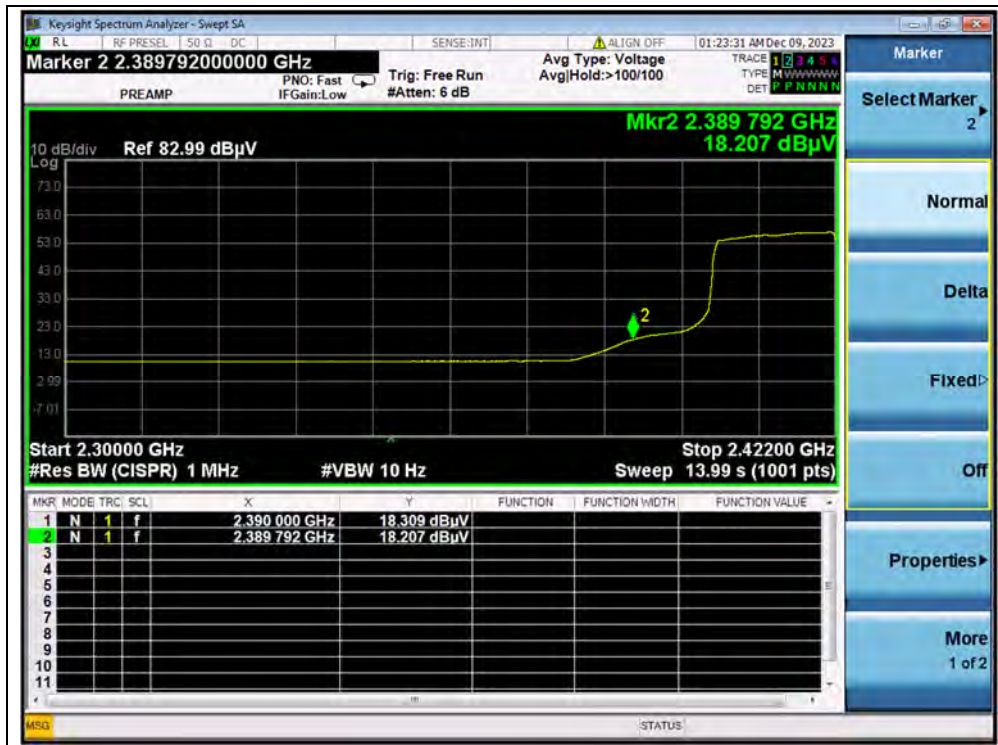


802.11ax (HEW40) Mode

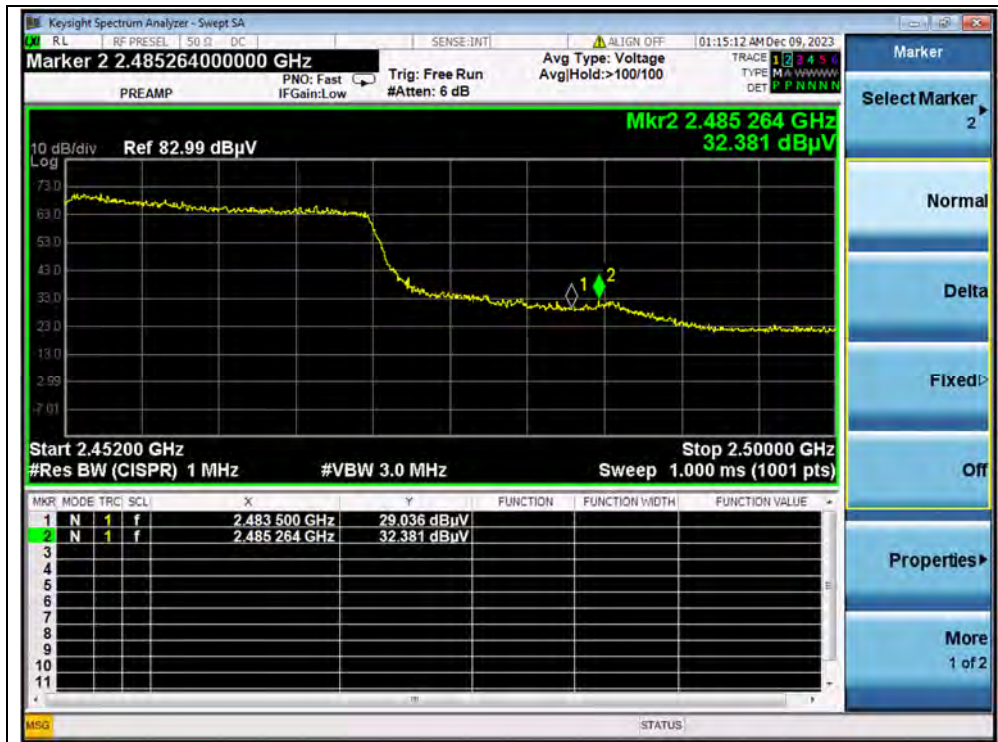
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
3	2389.91	PK	31.62	6.74	27.20	65.56	74	PASS
3	2390.00	AV	18.31	6.74	27.20	52.25	54	PASS
9	2485.26	PK	32.38	6.74	27.20	66.32	74	PASS
9	2483.63	AV	17.87	6.74	27.20	51.81	54	PASS



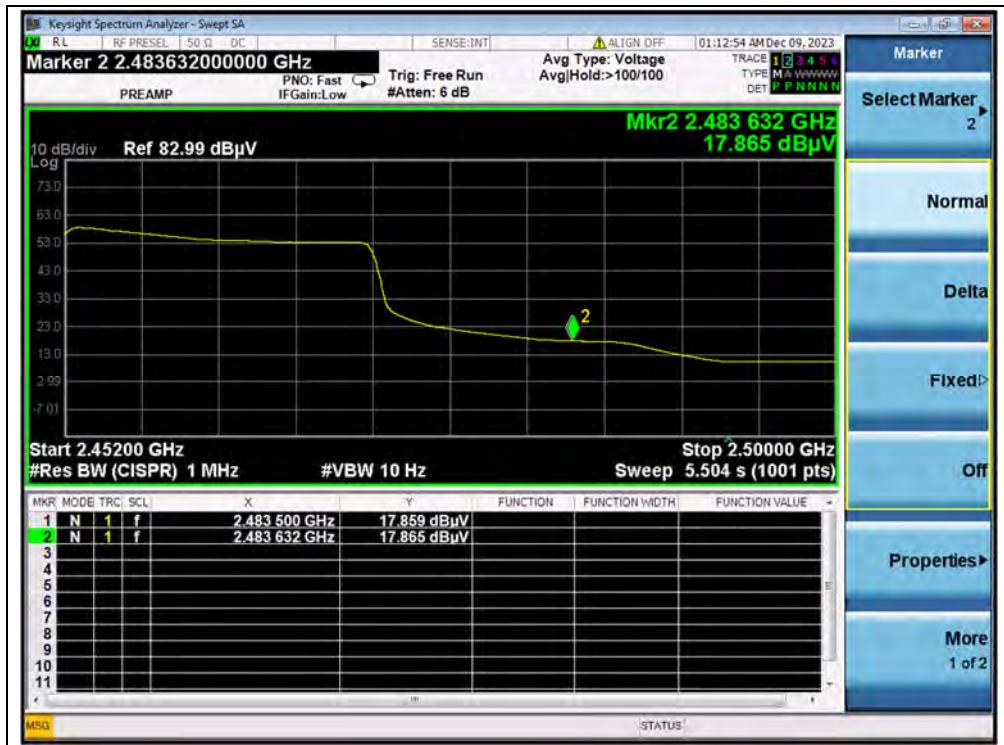
(PEAK, Channel 3, 802.11ax (HEW40))



(AVERAGE, Channel 3, 802.11ax (HEW40))



(PEAK, Channel 9, 802.11ax (HEW40))



(AVERAGE, Channel 9, 802.11ax (HEW40))



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.



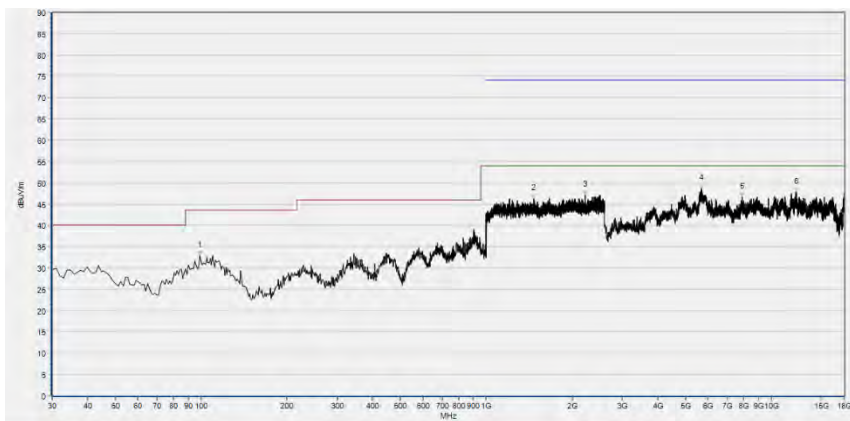
802.11b Mode

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	33.22	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1373.867	46.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2405.333	47.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4983.920	47.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5846.320	48.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9089.560	47.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

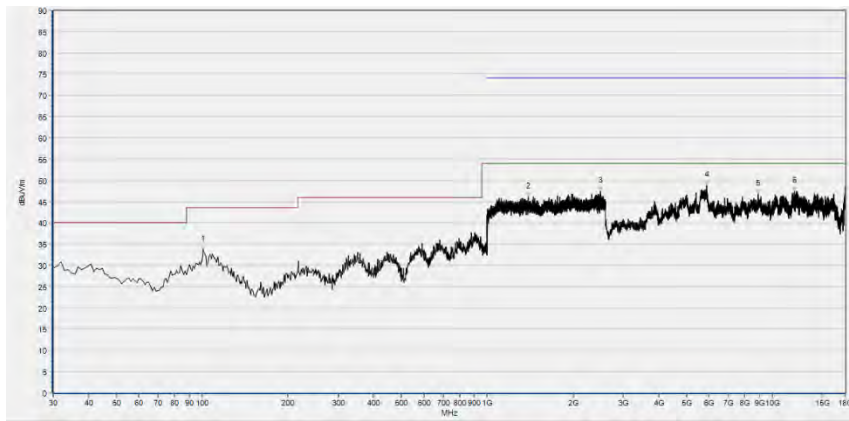
(Antenna Horizontal, 30MHz to 18GHz)



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
98.870	32.77	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1468.800	46.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2219.200	47.12	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5698.480	48.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7872.960	46.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12206.520	47.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



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	33.61	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1391.467	46.13	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2491.200	47.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5895.600	48.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8920.160	46.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11929.320	47.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

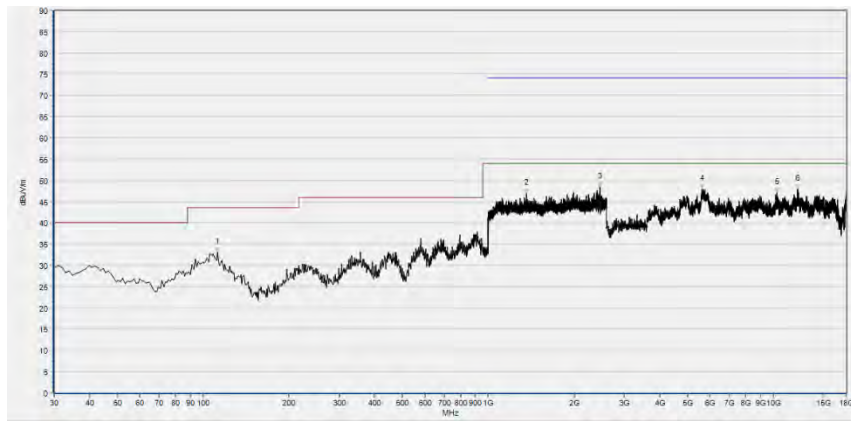
(Antenna Horizontal, 30MHz to 18GHz)



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	34.18	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1448.000	46.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2421.333	47.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5624.560	48.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7066.000	46.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12172.640	47.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

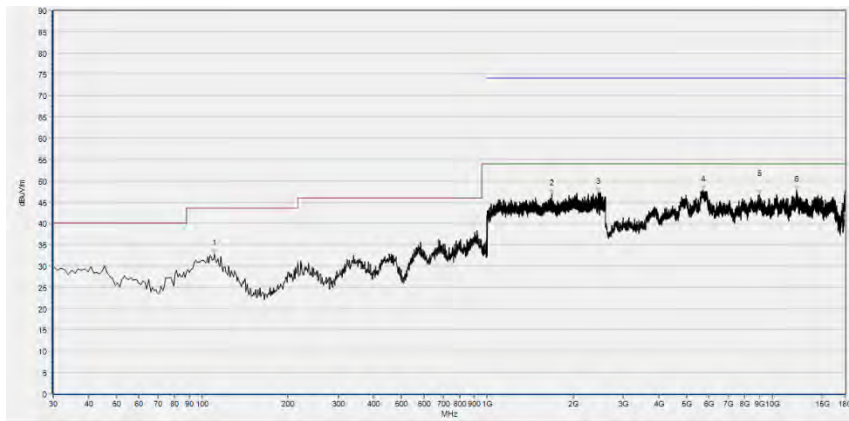
(Antenna Vertical, 30MHz to 18GHz)

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
112.450	33.08	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1360.533	46.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2464.533	48.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5618.400	47.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10293.840	47.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12141.840	47.85	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
110.510	32.83	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1681.600	46.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2453.867	47.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5704.640	47.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8997.160	46.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12148.000	47.69	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
109.540	33.22	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1464.533	46.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2389.867	47.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4808.360	47.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5680.000	48.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10336.960	46.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

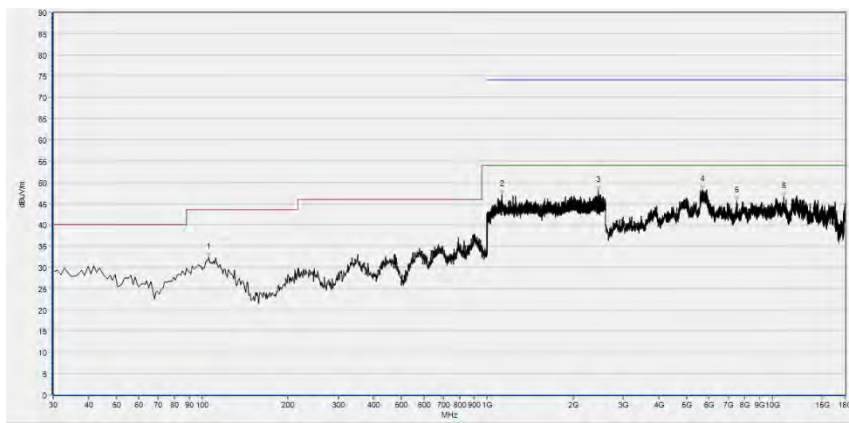
(Antenna Horizontal, 30MHz to 18GHz)



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	33.33	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1390.400	46.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2414.933	48.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5914.080	47.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10324.640	46.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12157.240	48.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

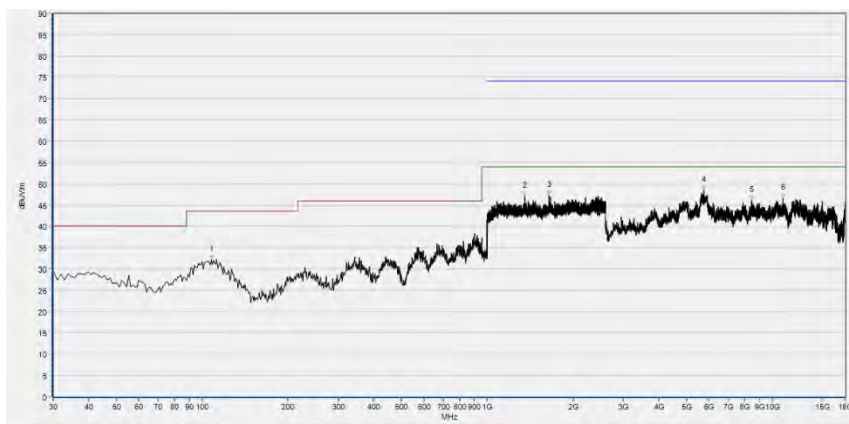
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



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	32.30	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1128.533	47.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2450.133	48.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5680.000	48.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7478.720	45.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10989.920	46.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

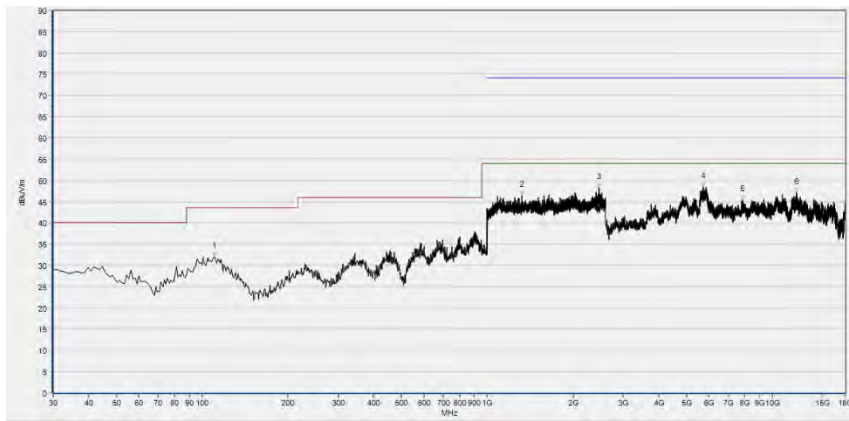
(Antenna Horizontal, 30MHz to 18GHz)



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
107.600	32.17	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1357.333	47.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1645.333	47.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5763.160	48.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8448.920	46.01	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10894.440	46.61	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
110.510	32.06	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1321.067	46.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2462.933	48.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5732.360	48.48	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7863.720	45.46	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12138.760	47.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



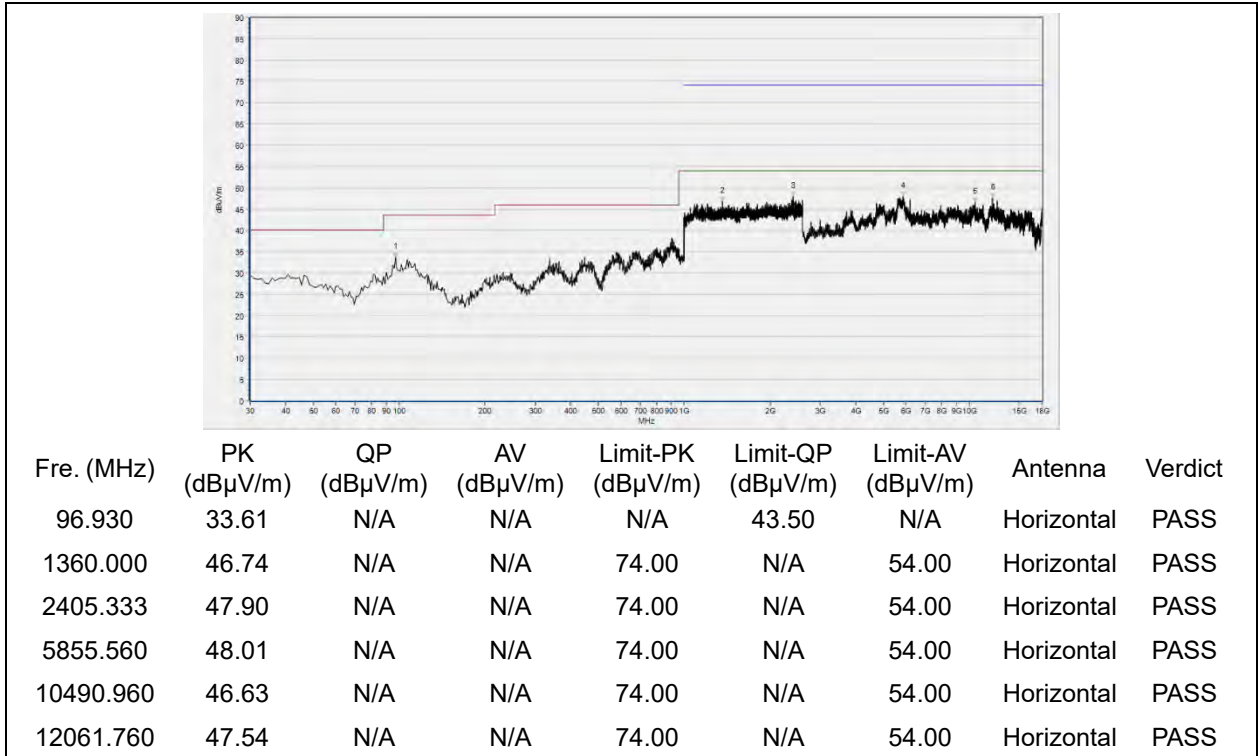
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
103.720	31.96	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1166.400	47.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2361.600	47.01	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5744.680	48.78	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8479.720	46.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11134.680	46.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

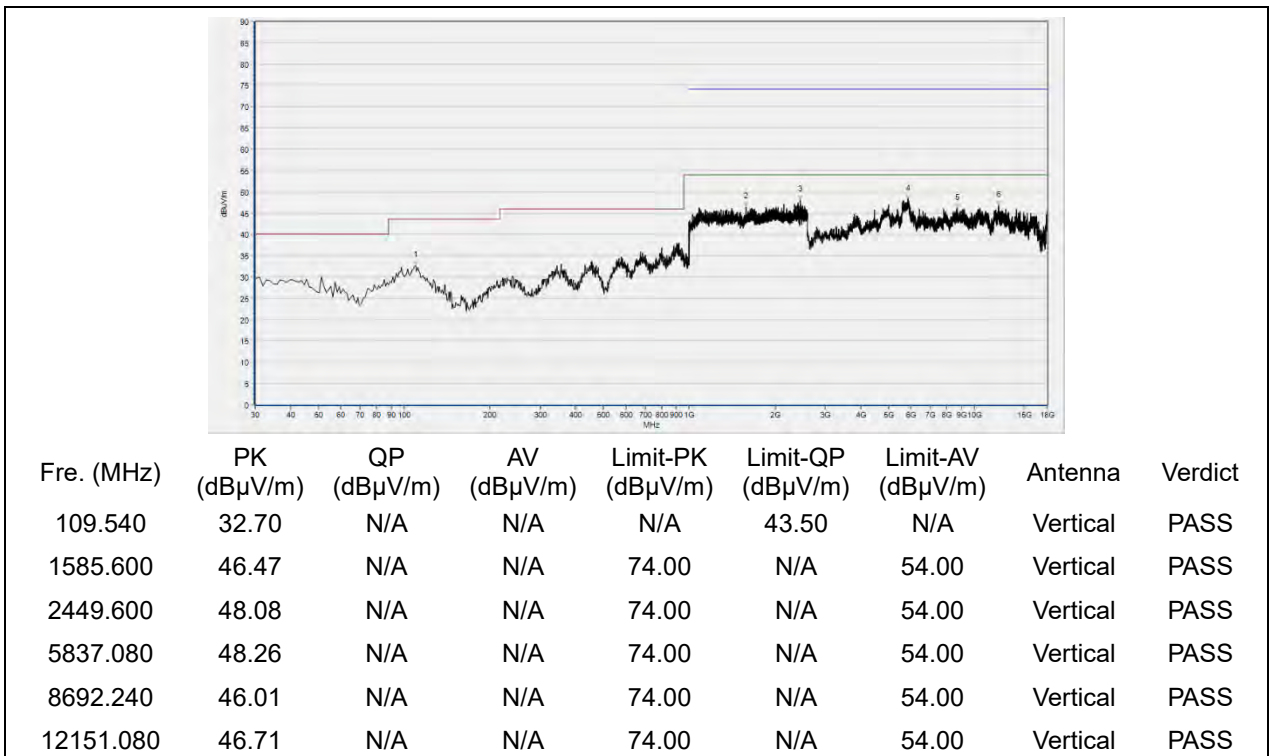


802.11n (HT20) Mode

Plot for Channel 1



(Antenna Horizontal, 30MHz to 18GHz)



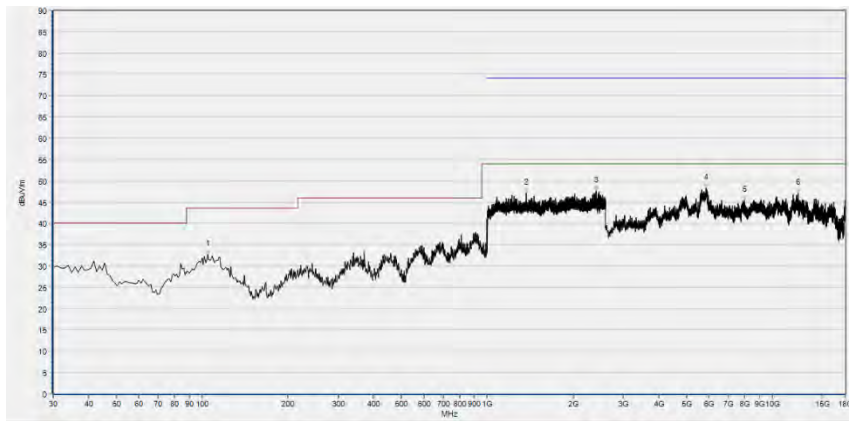
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



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
107.600	34.69	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1632.533	47.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2410.667	47.55	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5880.200	48.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8864.720	46.67	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11895.440	46.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

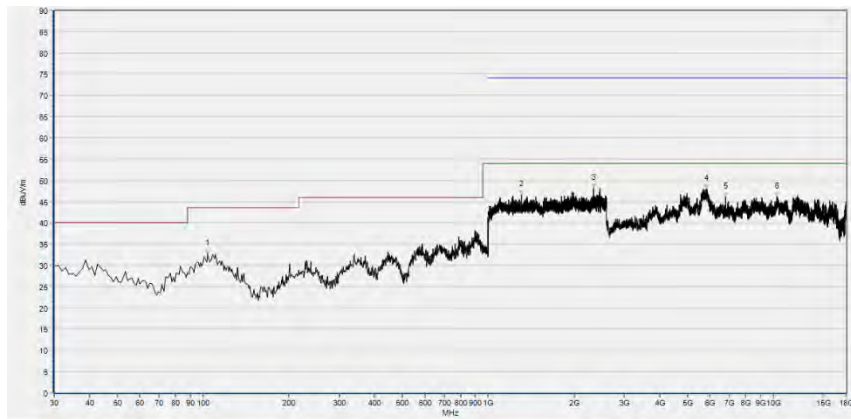
(Antenna Horizontal, 30MHz to 18GHz)



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	32.64	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1371.200	47.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2413.333	47.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5852.480	48.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7993.080	45.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12277.360	47.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

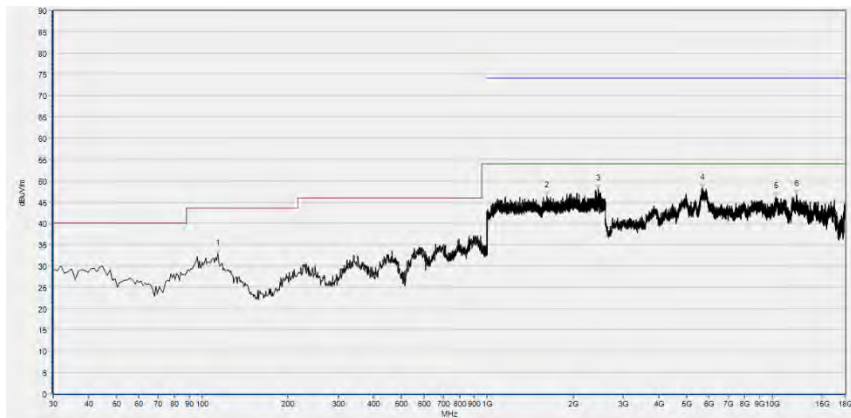
(Antenna Vertical, 30MHz to 18GHz)

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
103.720	32.67	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1304.533	46.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2336.533	48.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5827.840	47.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6810.360	46.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10300.000	46.12	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
113.420	32.82	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1614.400	46.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2453.867	48.07	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5686.160	48.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10318.480	46.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12184.960	46.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



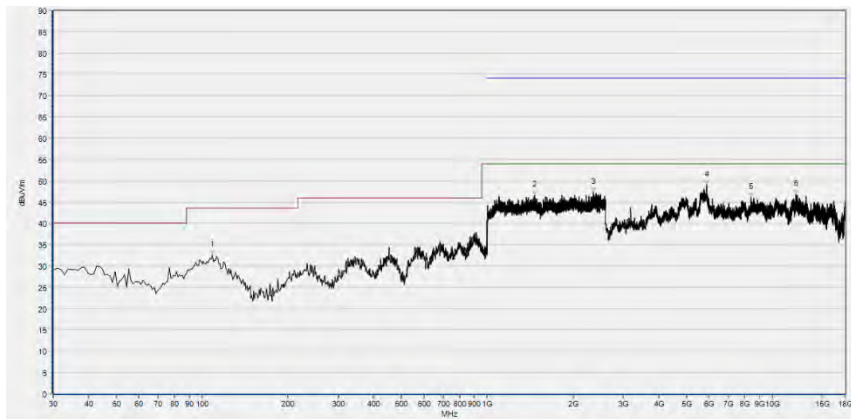
802.11n (HT40) Mode

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
113.420	32.31	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1510.400	46.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2385.600	50.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4866.880	47.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5766.240	47.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8747.680	46.46	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	32.50	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1463.467	46.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2355.200	47.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5892.520	48.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8411.960	46.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12120.280	46.80	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

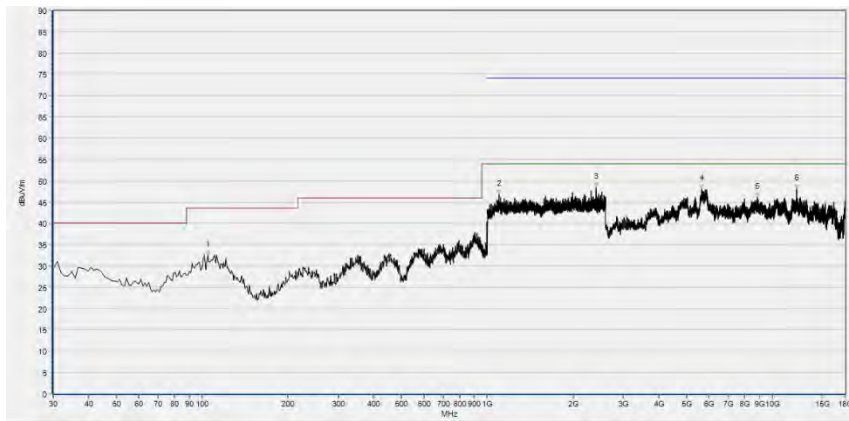
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



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	32.55	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1205.867	47.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2024.000	47.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5655.360	47.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7857.560	46.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10343.120	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
104.690	32.56	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1097.067	46.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2410.667	48.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5655.360	48.12	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8870.880	46.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12141.840	48.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 9



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
98.870	32.40	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1059.200	46.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2019.200	47.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5692.320	47.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10352.360	47.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12218.840	46.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



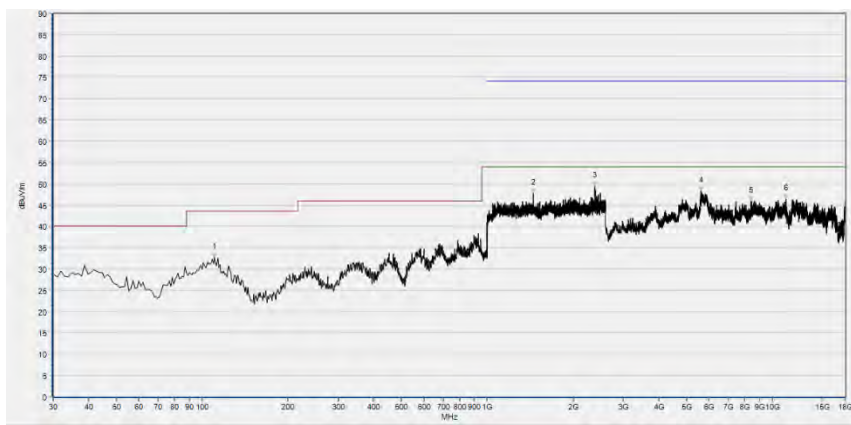
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
103.720	32.25	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1138.667	46.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2403.733	47.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3884.360	45.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5636.880	47.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10423.200	47.11	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
110.510	32.74	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1451.733	47.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2386.667	49.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5606.080	48.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8396.560	45.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11131.600	46.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

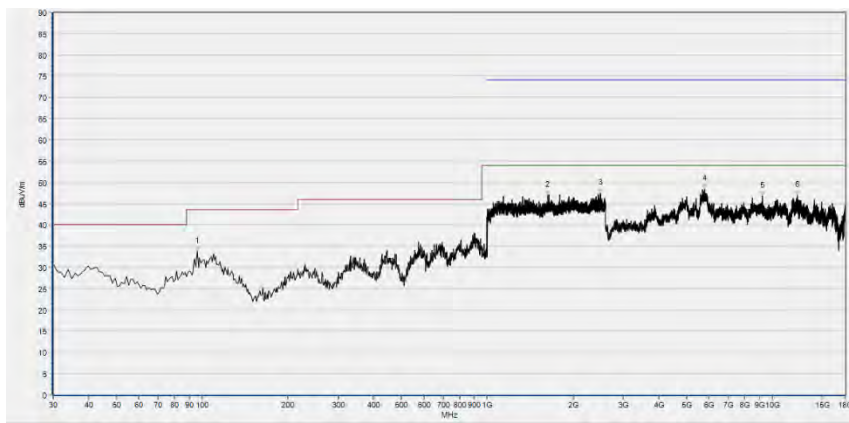
(Antenna Horizontal, 30MHz to 18GHz)



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	32.28	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1469.333	47.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1974.933	47.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5781.640	48.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7956.120	45.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10306.160	47.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



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	33.67	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1632.000	46.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2494.933	47.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5790.880	48.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9212.760	46.71	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
108.570	32.57	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1587.200	46.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2490.667	48.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5661.520	48.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8633.720	45.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12160.320	46.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

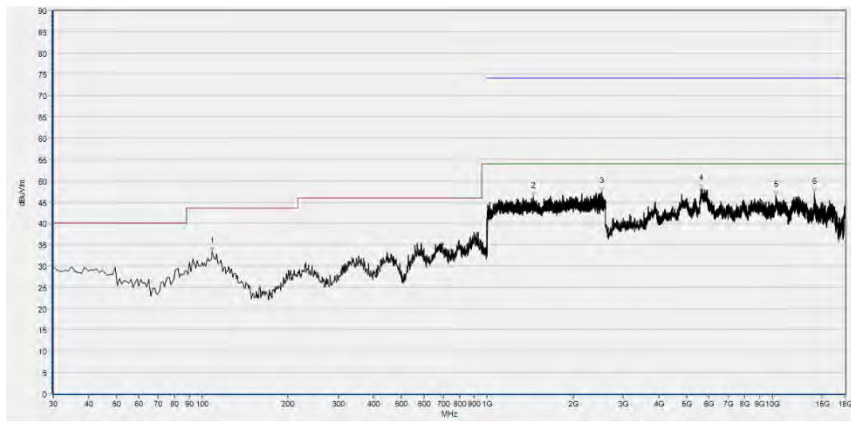
(Antenna Vertical, 30MHz to 18GHz)

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
111.480	32.56	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2070.400	47.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2464.000	48.90	N/A	N/A	74.00	N/A	54.00	Horizontal	N/A
5864.800	47.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8670.680	46.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12197.280	46.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



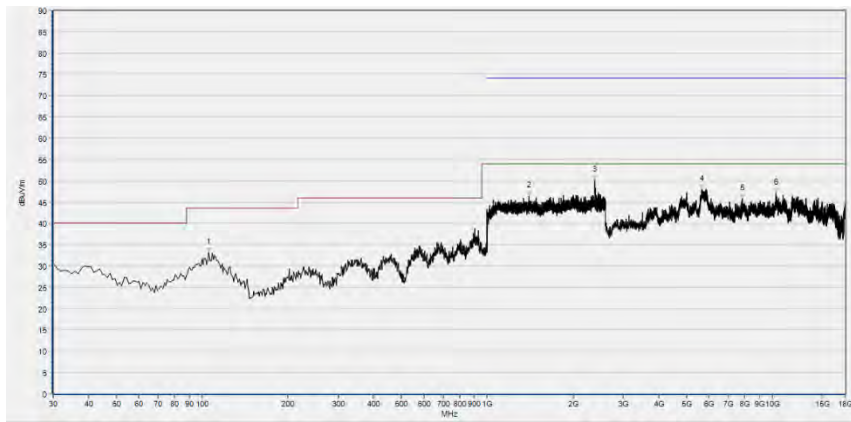
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	33.35	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1449.067	46.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2522.667	47.48	N/A	N/A	74.00	N/A	54.00	Vertical	N/A
5606.080	48.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10309.240	46.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14060.680	47.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



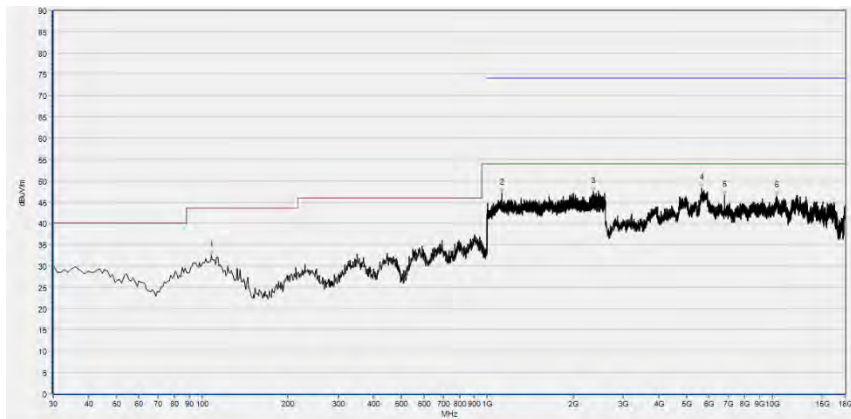
802.11ax (HEW40) Mode

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
105.660	33.15	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1402.133	46.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2382.400	50.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5661.520	47.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7845.240	45.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10296.920	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
107.600	32.55	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1127.467	47.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2347.733	47.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5655.360	48.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6798.040	46.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10324.640	46.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

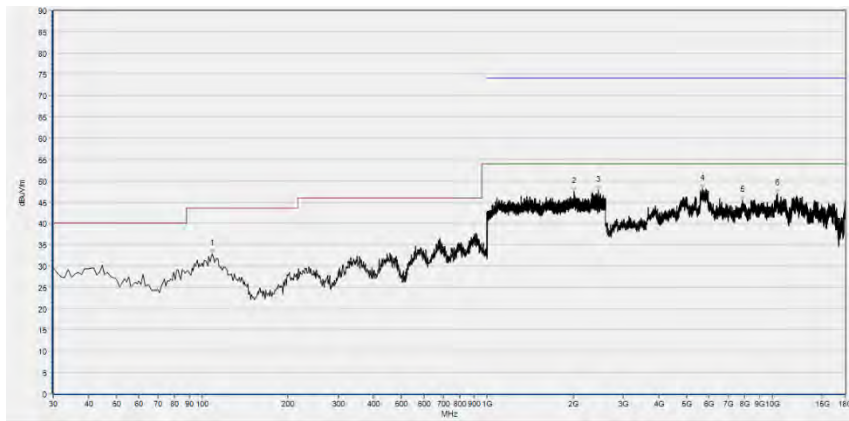
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



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	31.65	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1579.200	46.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2411.200	47.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5849.400	48.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8448.920	45.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10343.120	46.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

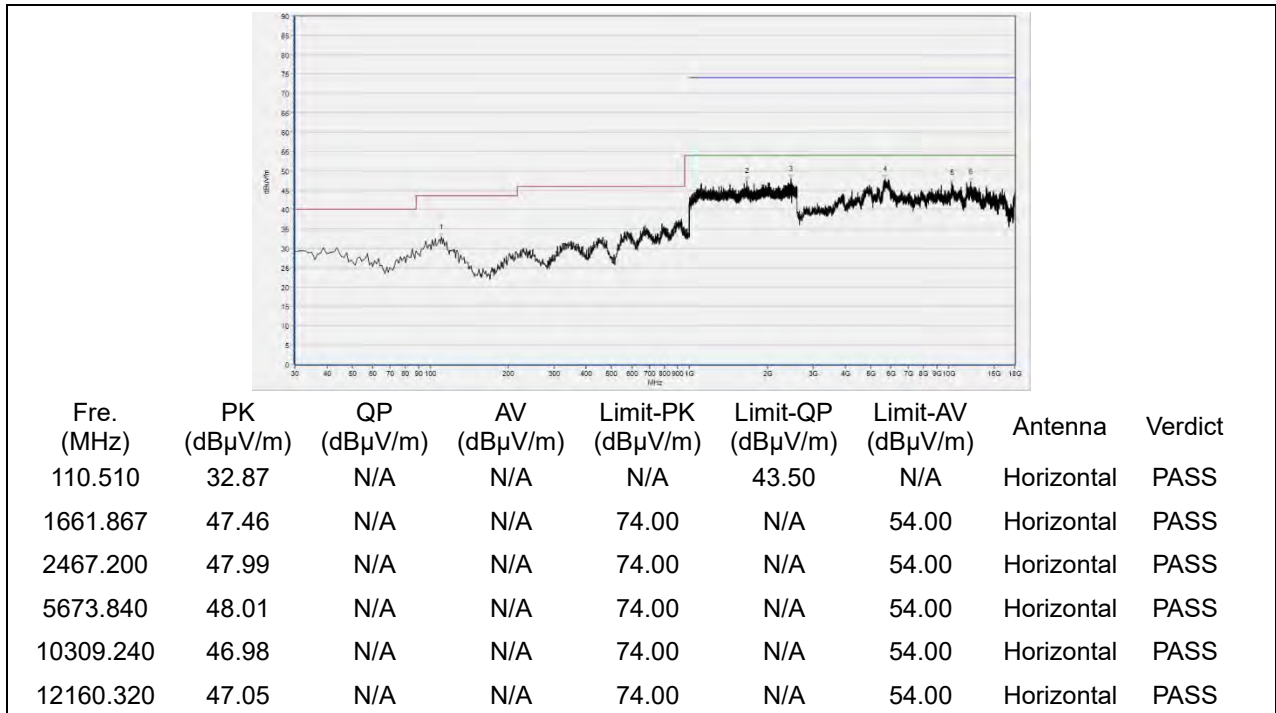
(Antenna Horizontal, 30MHz to 18GHz)



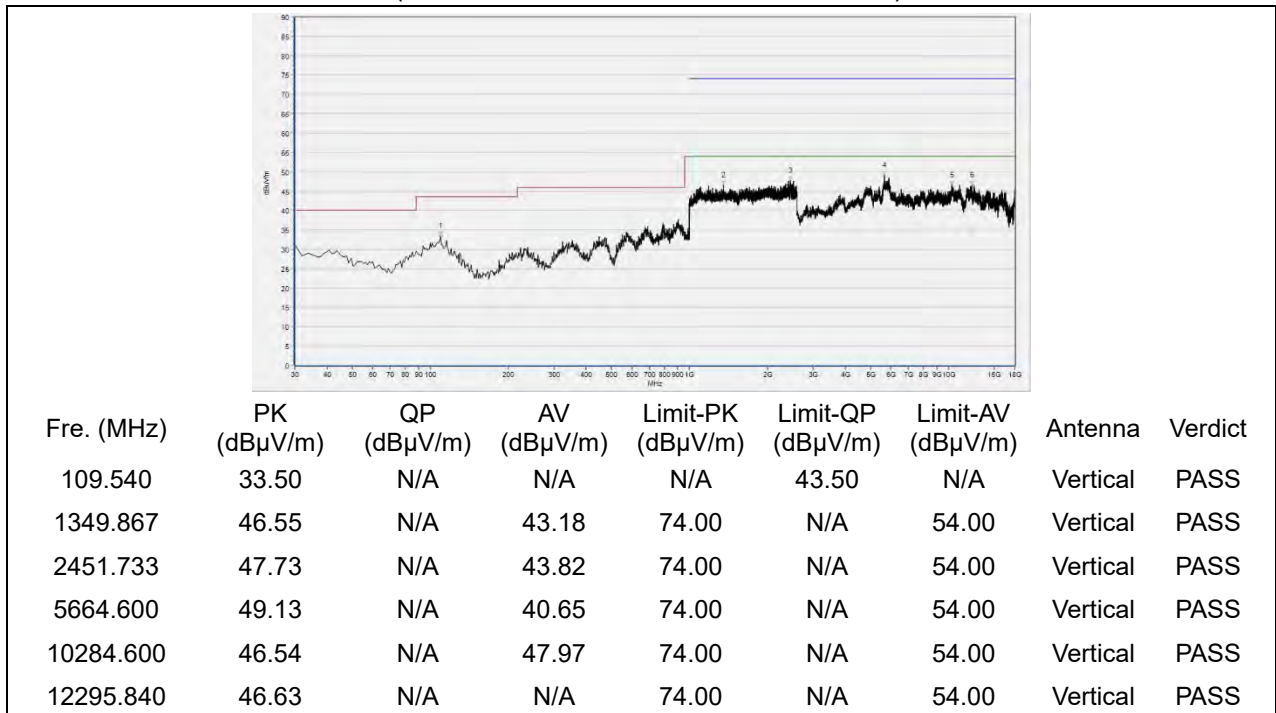
Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
108.570	32.91	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2014.400	47.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2451.733	47.78	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5680.000	48.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7836.000	45.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10426.280	46.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 9



(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

————— END OF REPORT —————