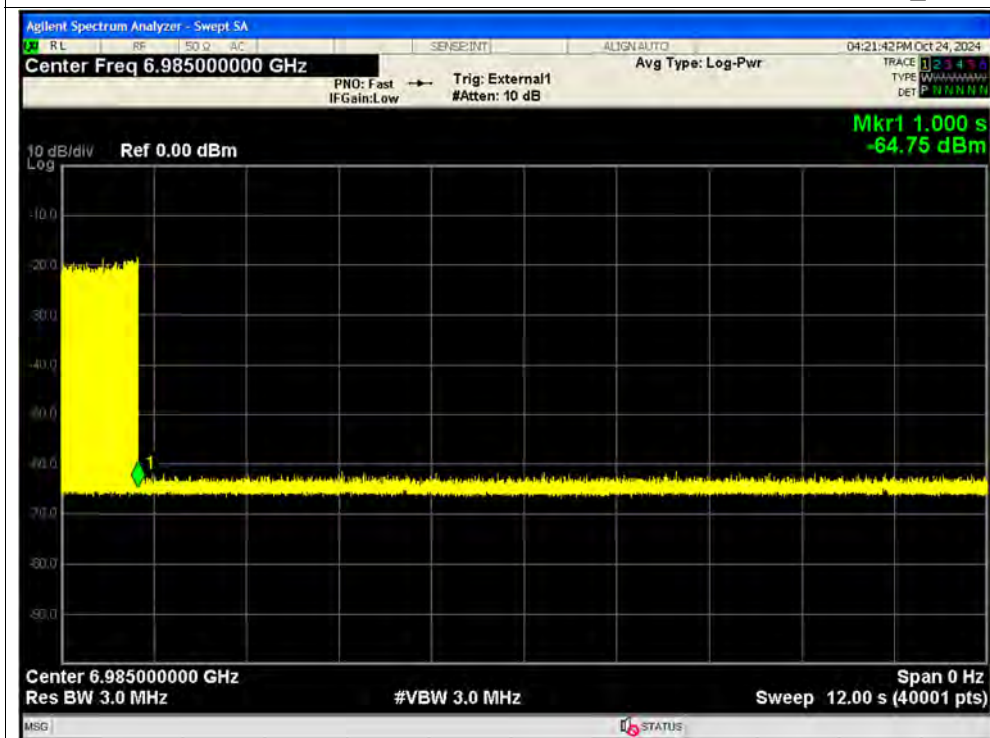
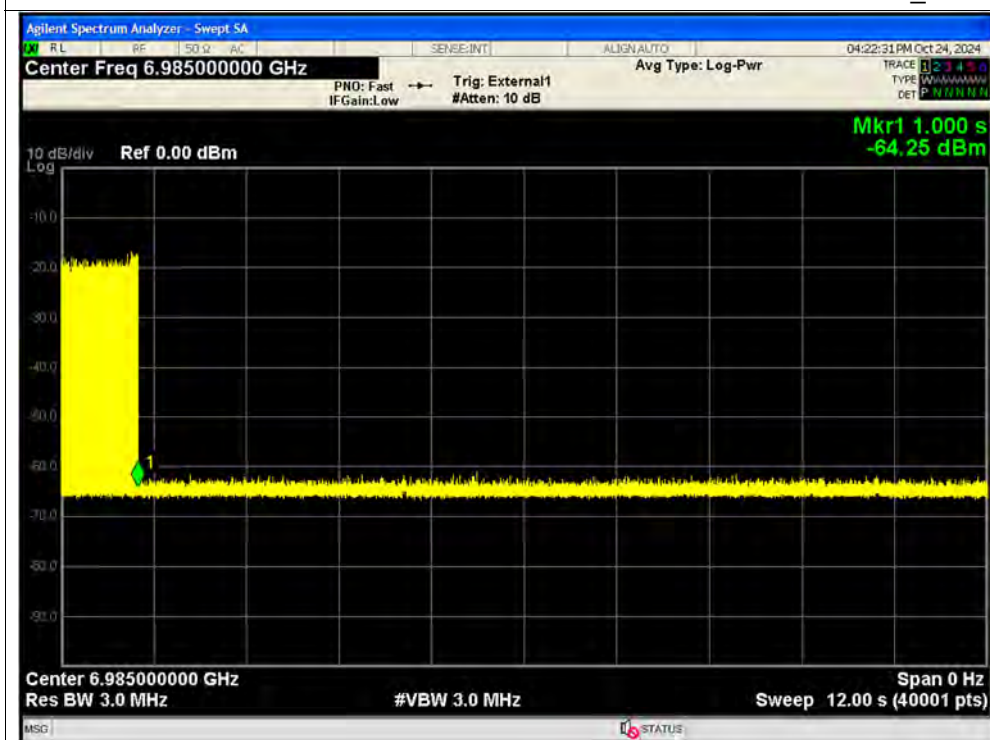


Contention Based Protocol NVNT ax160 6985MHz Interfere 6910 MHz_3

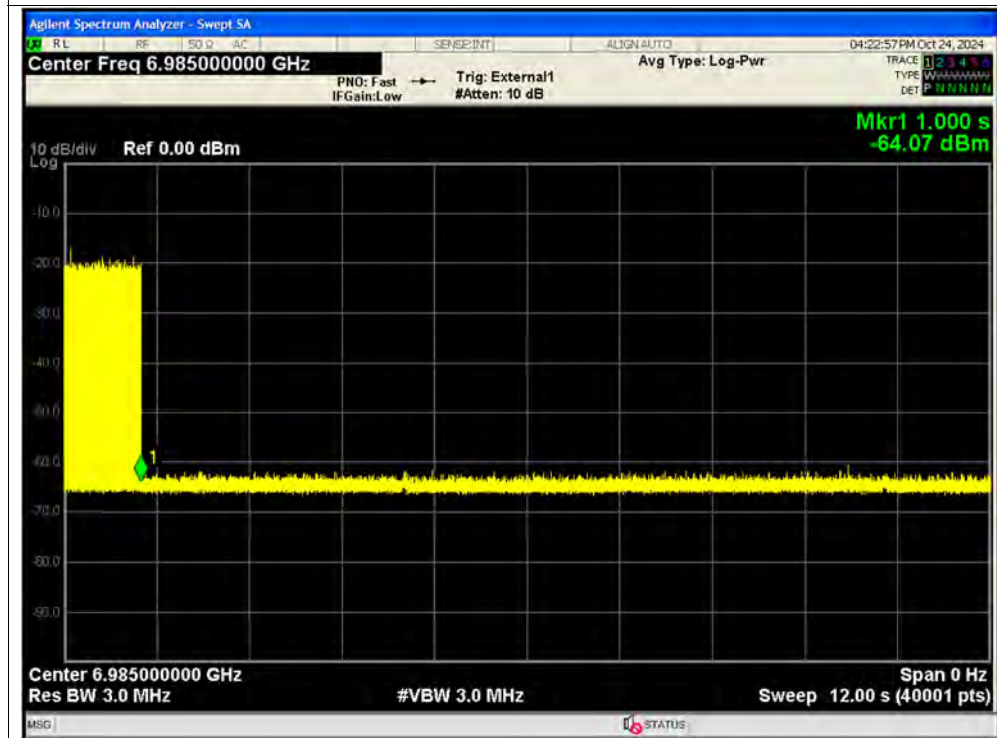


Contention Based Protocol NVNT ax160 6985MHz Interfere 6910 MHz_4

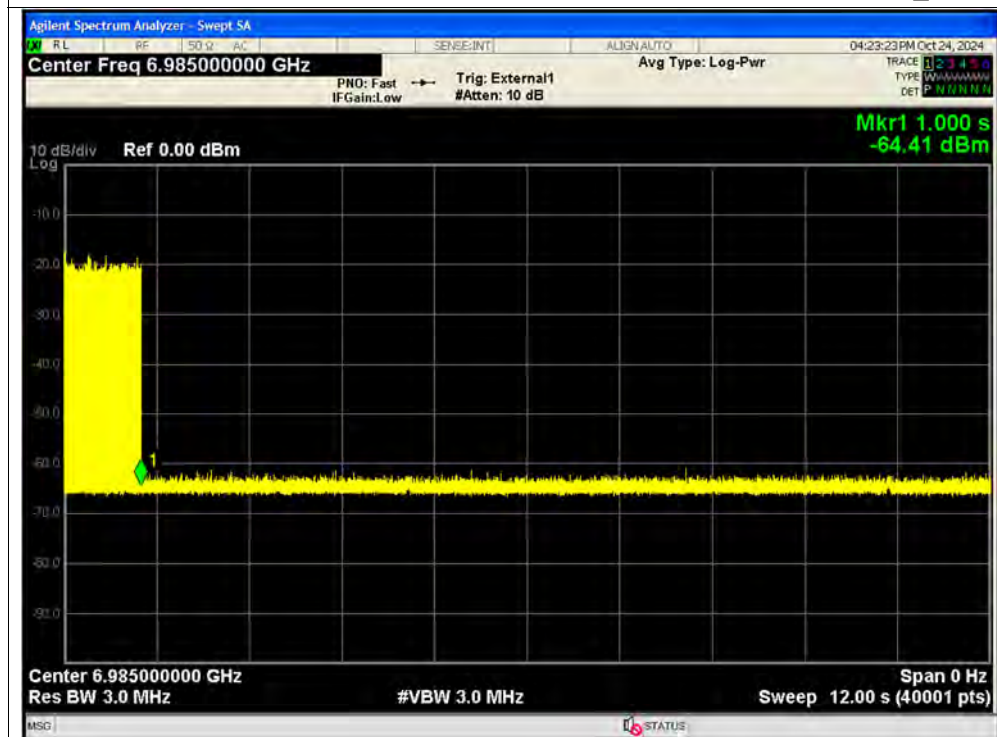




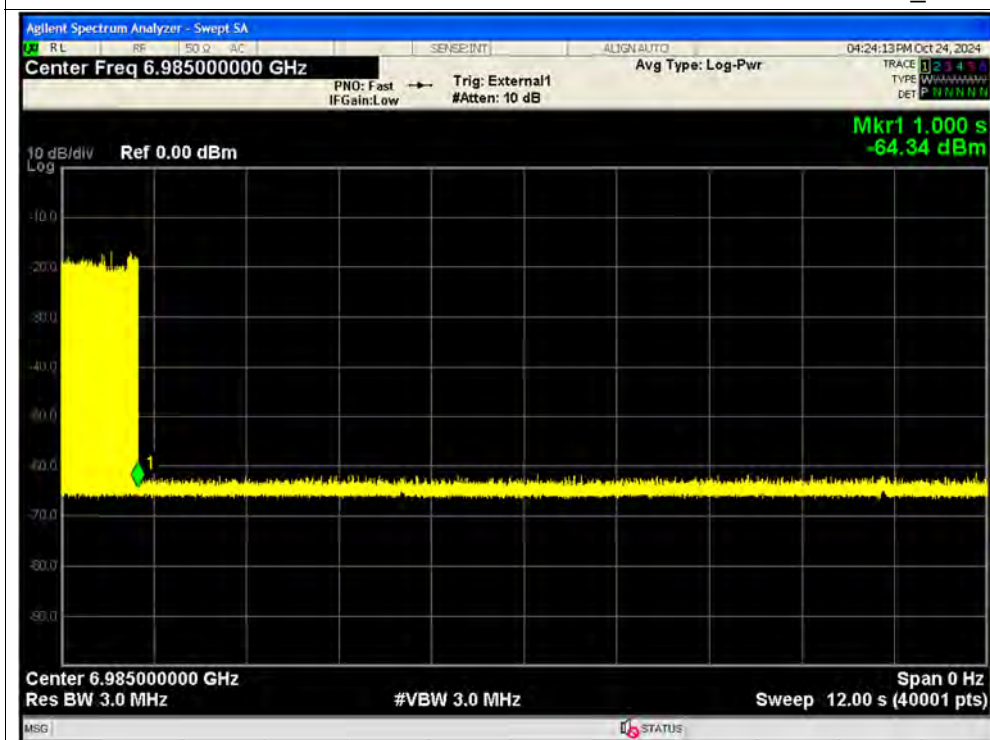
Contention Based Protocol NVNT ax160 6985MHz Interfere 6910 MHz_5



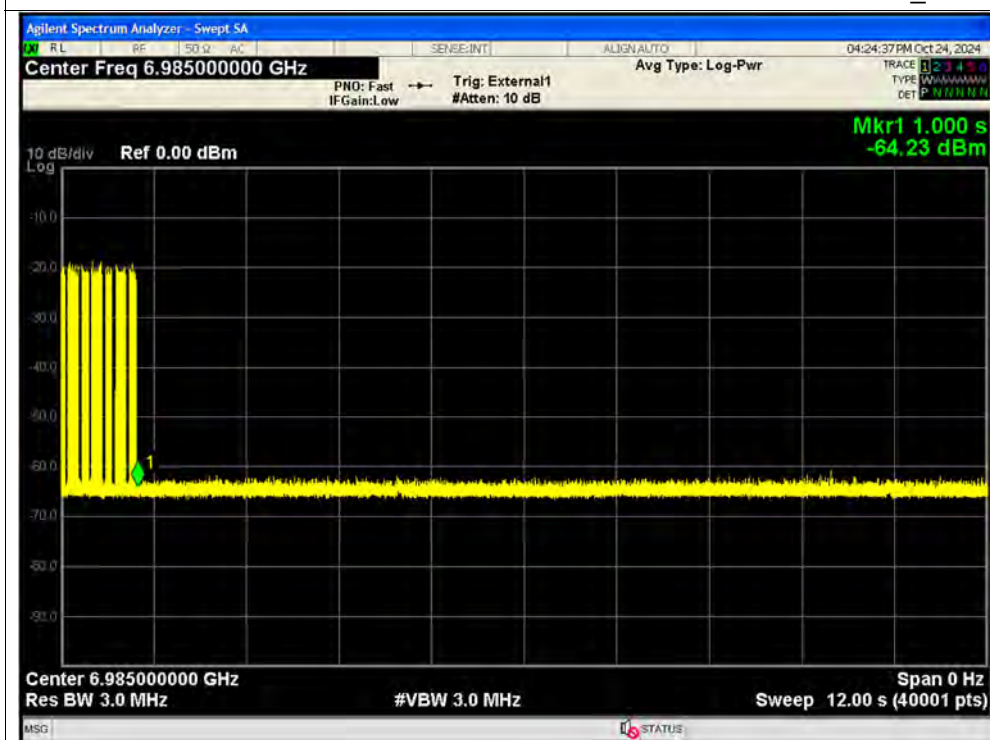
Contention Based Protocol NVNT ax160 6985MHz Interfere 6910 MHz_6



Contention Based Protocol NVNT ax160 6985MHz Interfere 6910 MHz_7

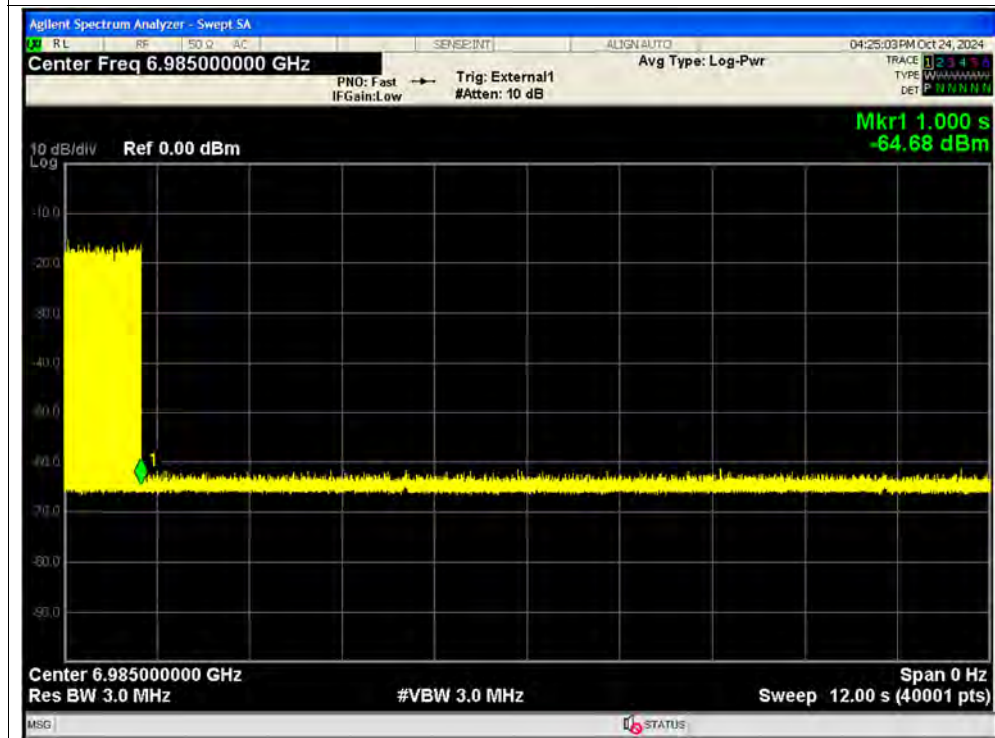


Contention Based Protocol NVNT ax160 6985MHz Interfere 6910 MHz_8

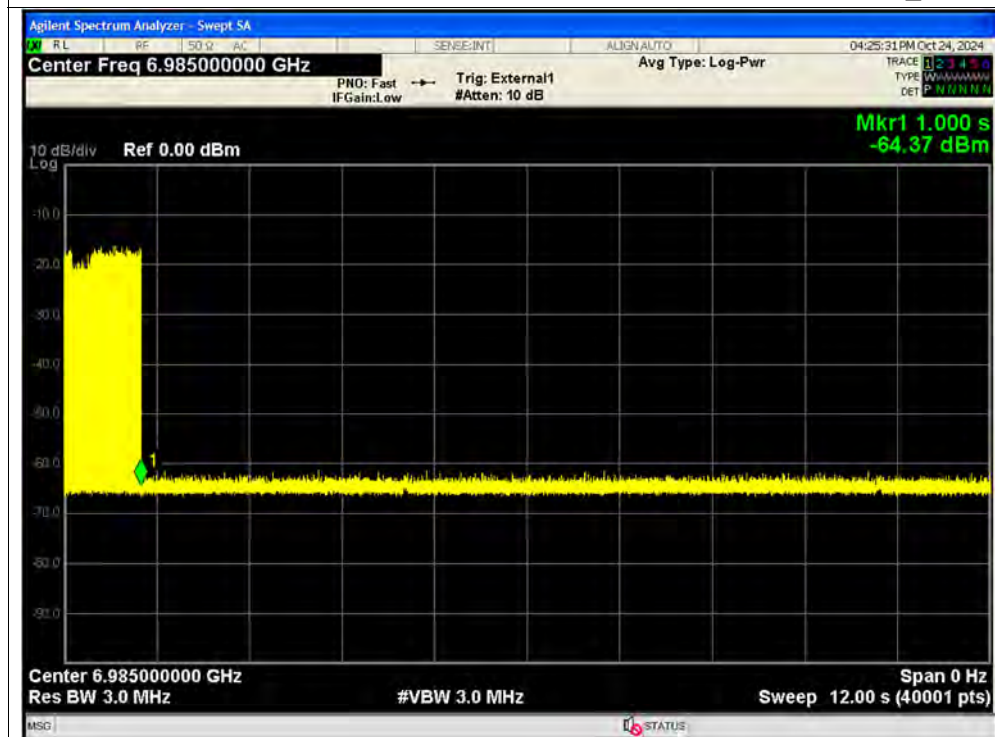




Contention Based Protocol NVNT ax160 6985MHz Interfere 6910 MHz_9

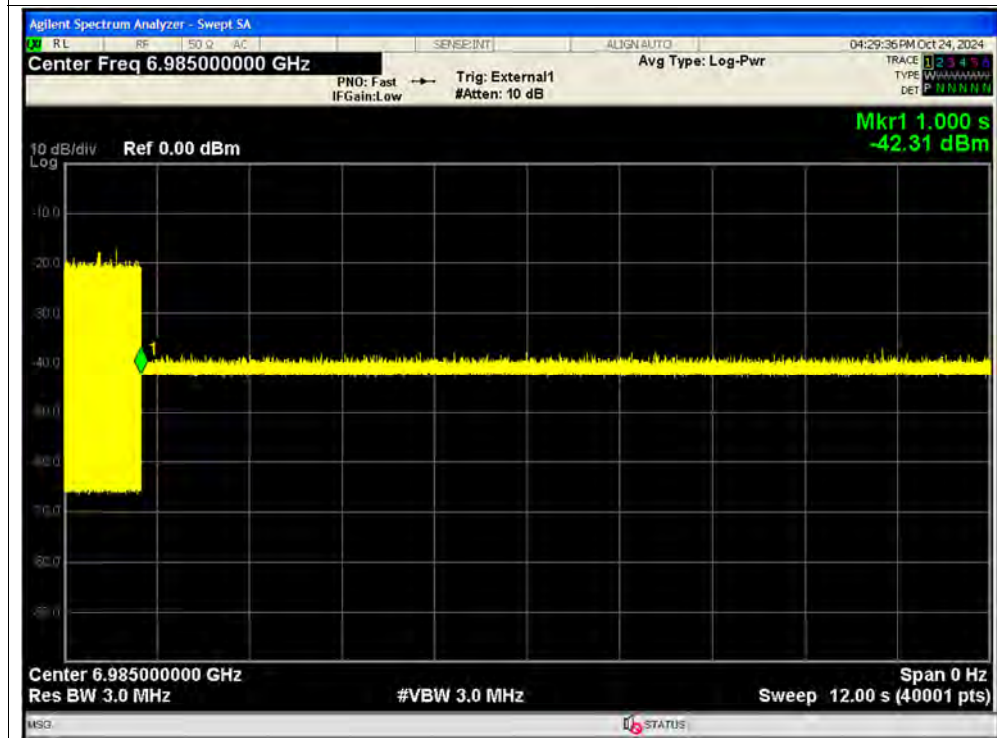


Contention Based Protocol NVNT ax160 6985MHz Interfere 6910 MHz_10

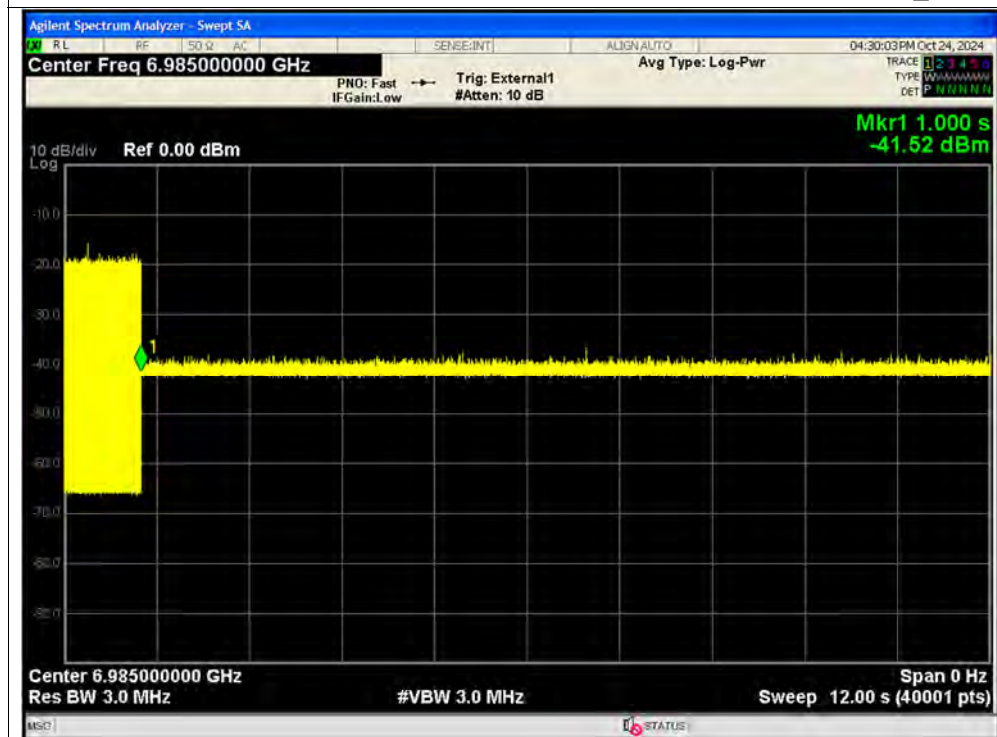




Contention Based Protocol NVNT ax160 6985MHz Interfere 6985 MHz_1

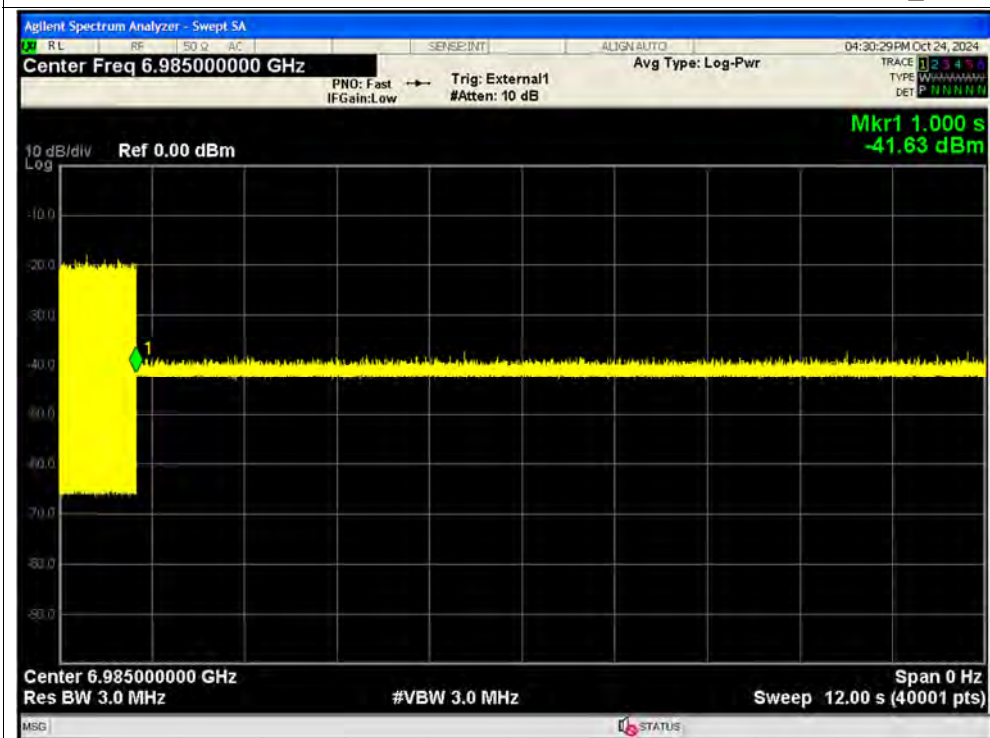


Contention Based Protocol NVNT ax160 6985MHz Interfere 6985 MHz_2

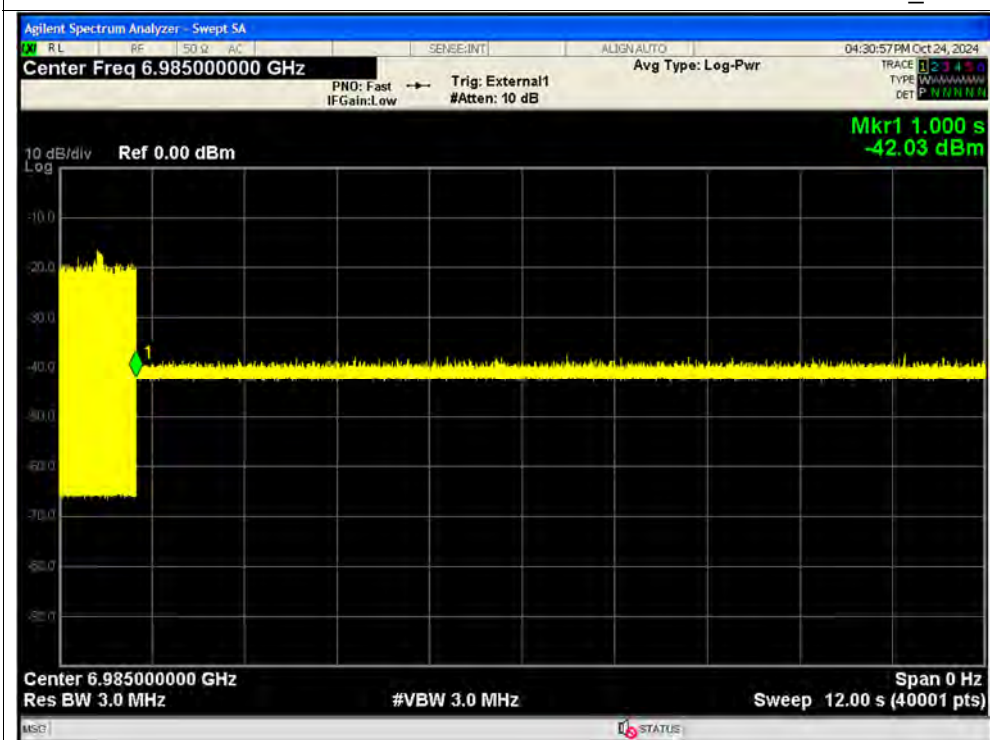




Contention Based Protocol NVNT ax160 6985MHz Interfere 6985 MHz_3

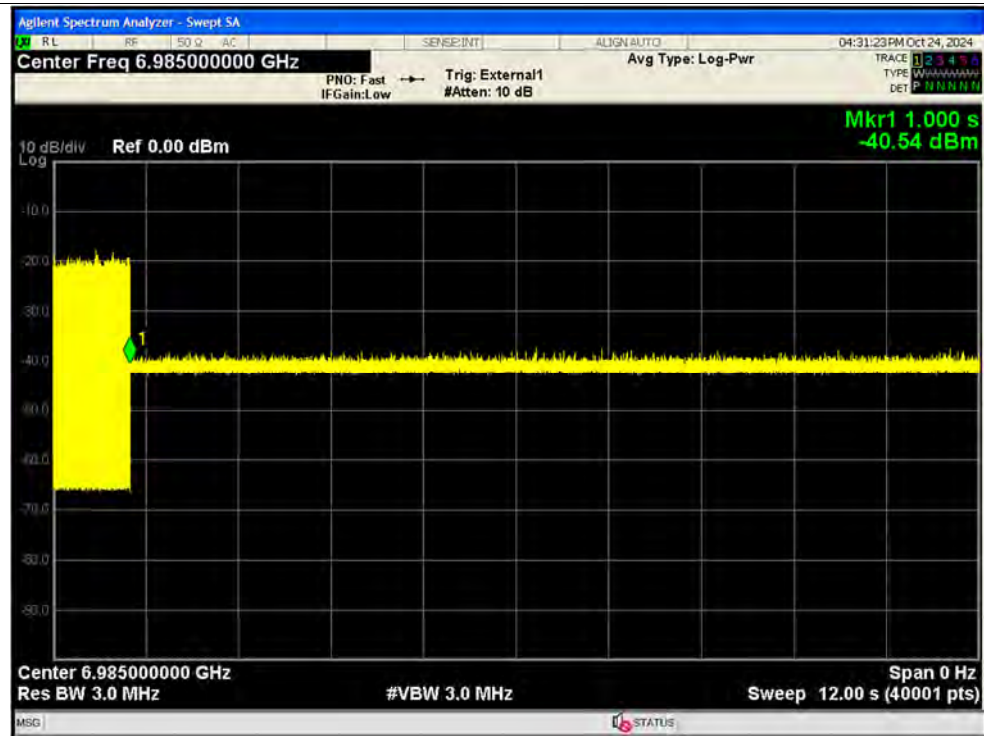


Contention Based Protocol NVNT ax160 6985MHz Interfere 6985 MHz_4

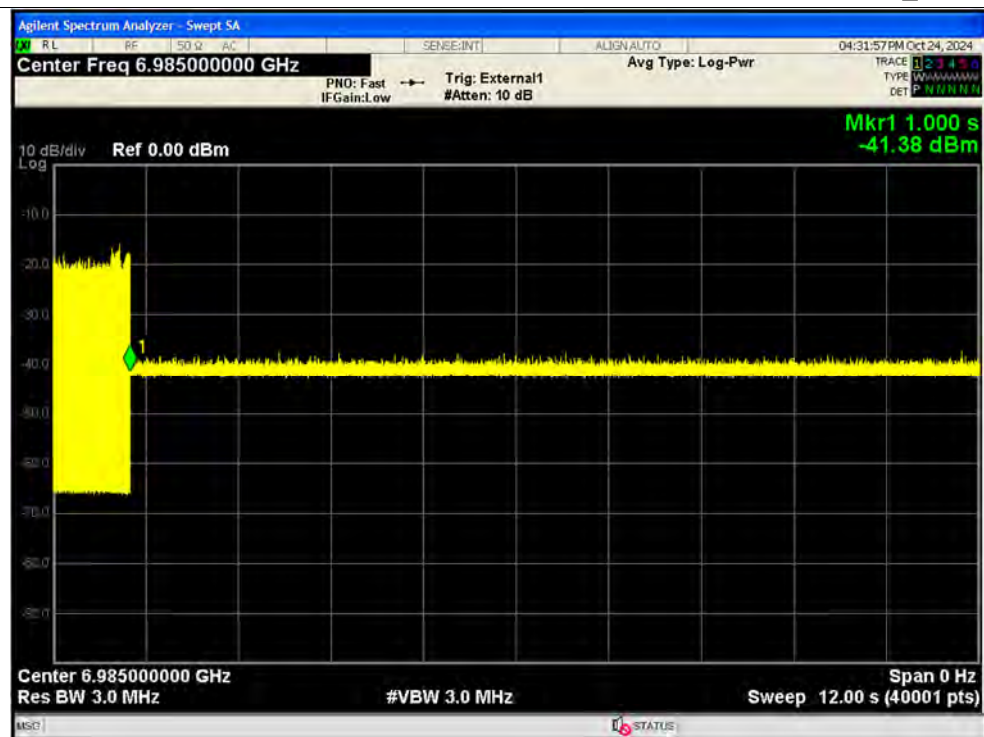




Contention Based Protocol NVNT ax160 6985MHz Interfere 6985 MHz_5

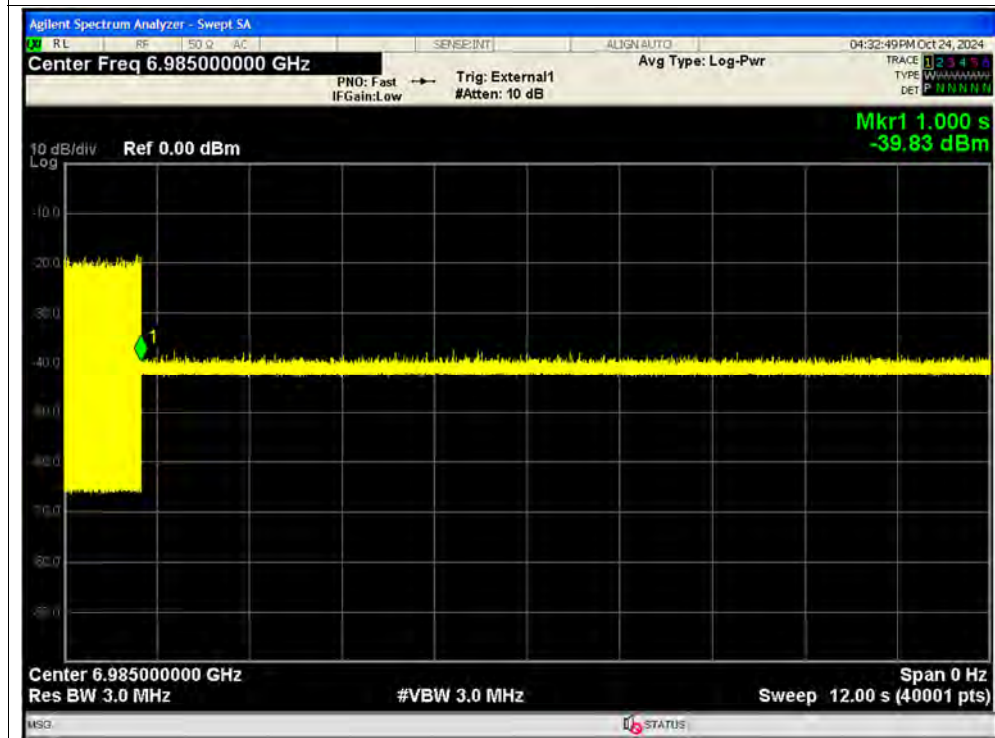


Contention Based Protocol NVNT ax160 6985MHz Interfere 6985 MHz_6

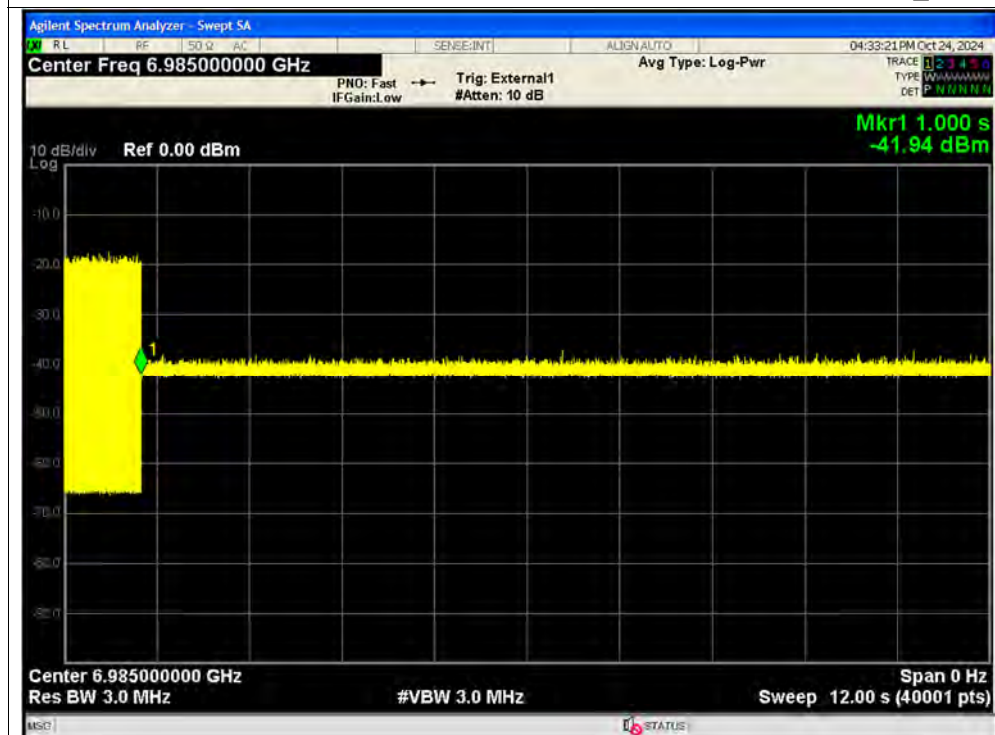




Contention Based Protocol NVNT ax160 6985MHz Interfere 6985 MHz_7

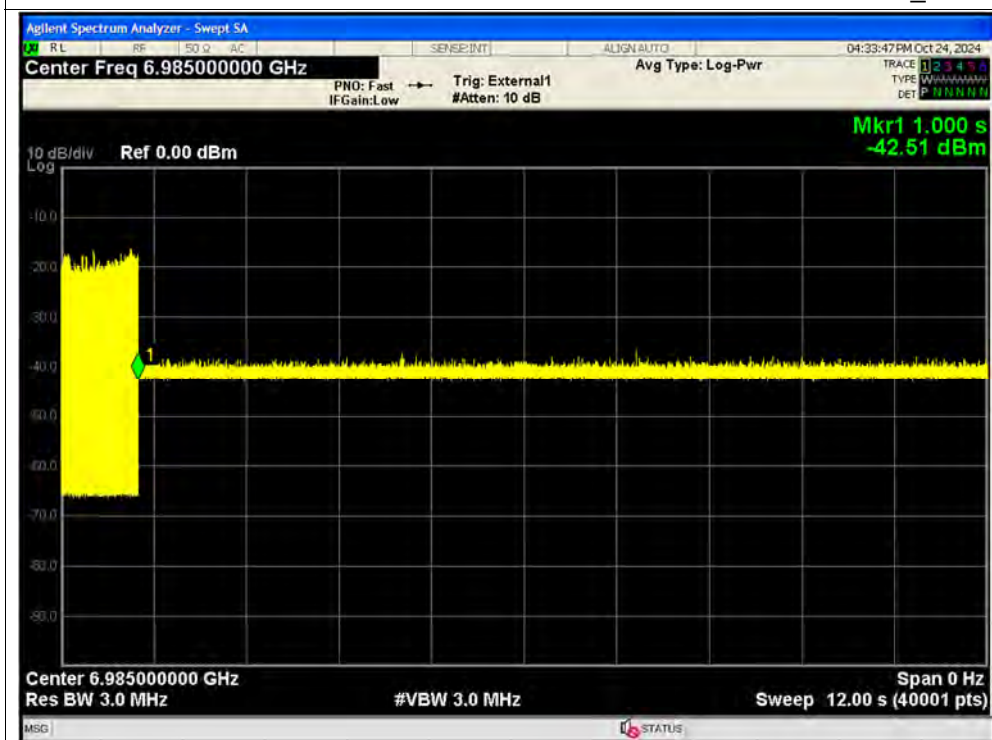


Contention Based Protocol NVNT ax160 6985MHz Interfere 6985 MHz_8

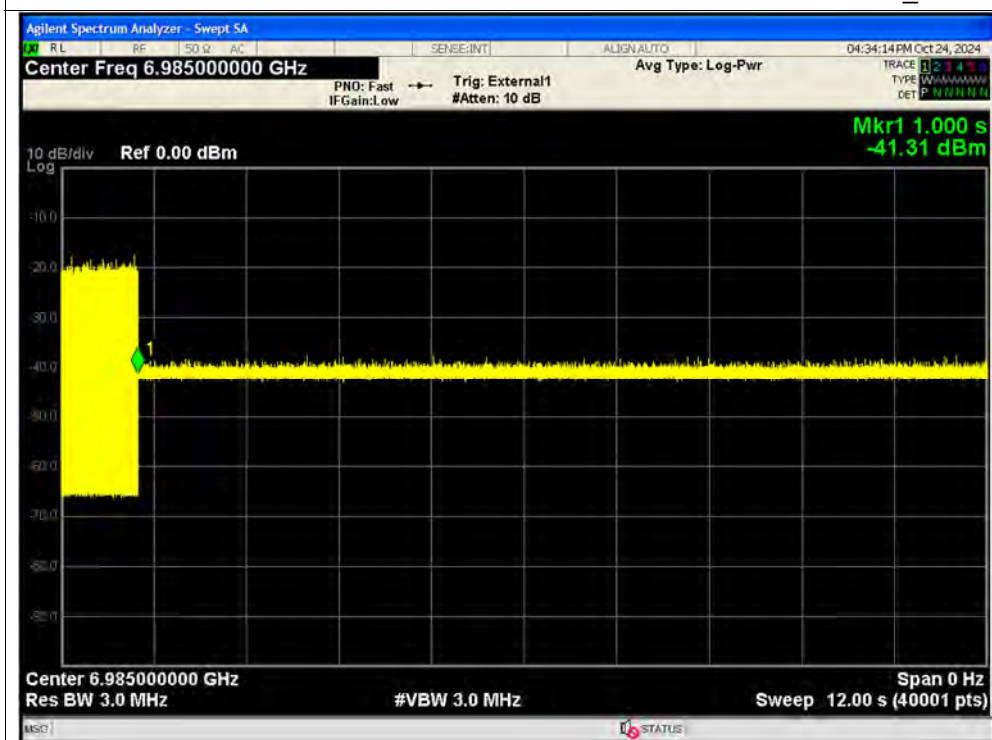




Contention Based Protocol NVNT ax160 6985MHz Interfere 6985 MHz_9



Contention Based Protocol NVNT ax160 6985MHz Interfere 6985 MHz_10

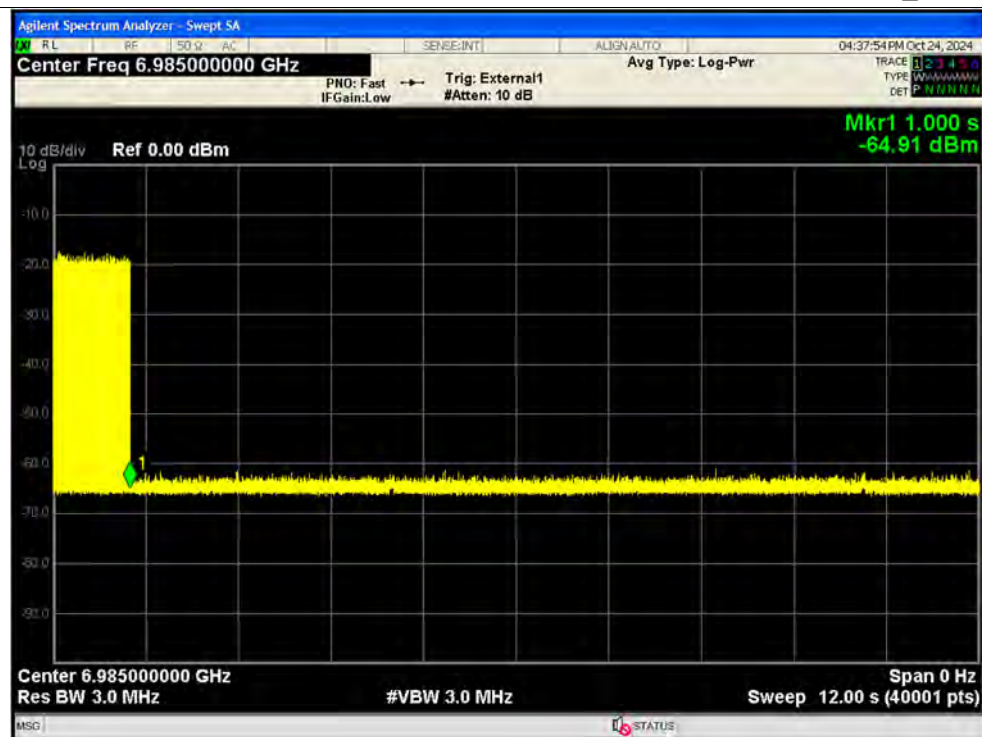




Contention Based Protocol NVNT ax160 6985MHz Interfere 7060 MHz_1

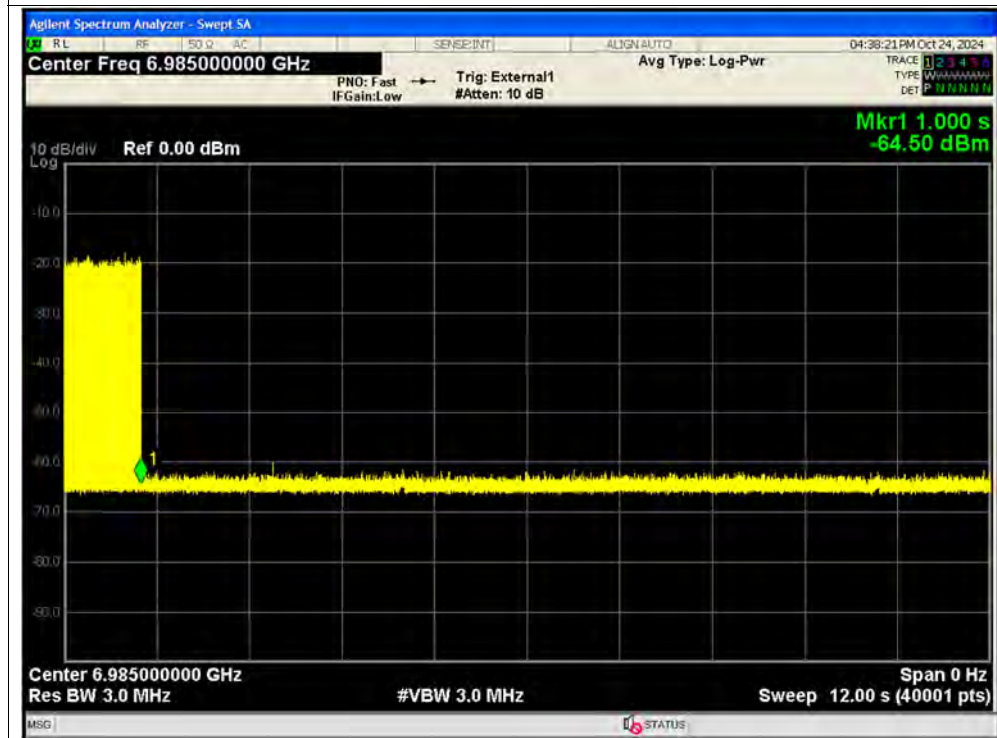


Contention Based Protocol NVNT ax160 6985MHz Interfere 7060 MHz_2

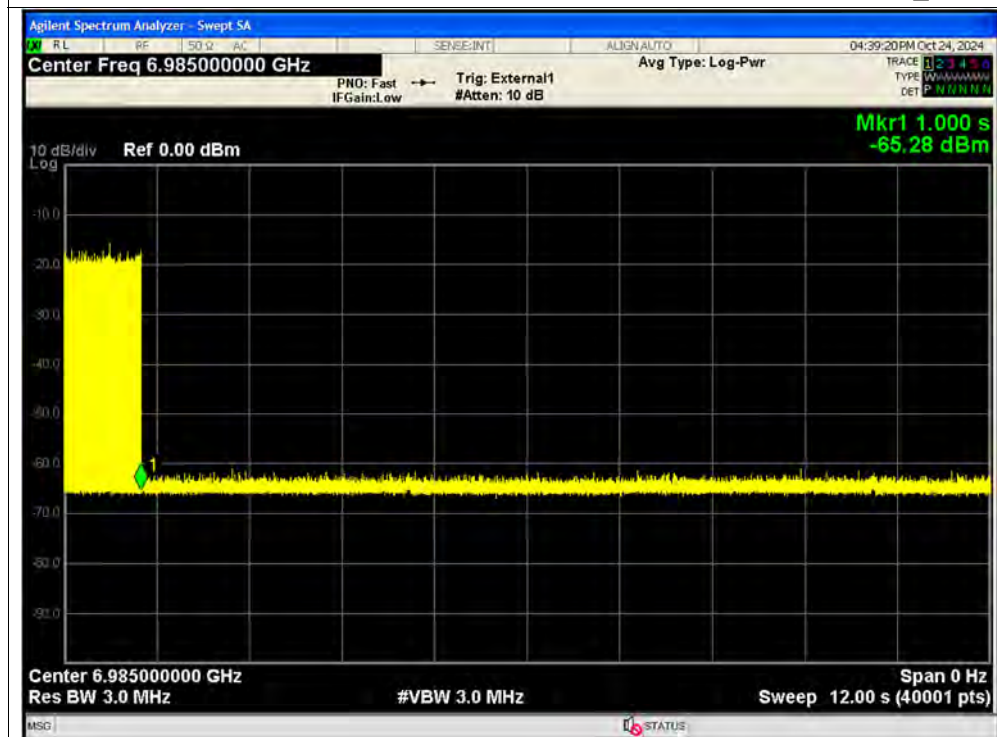




Contention Based Protocol NVNT ax160 6985MHz Interfere 7060 MHz_3

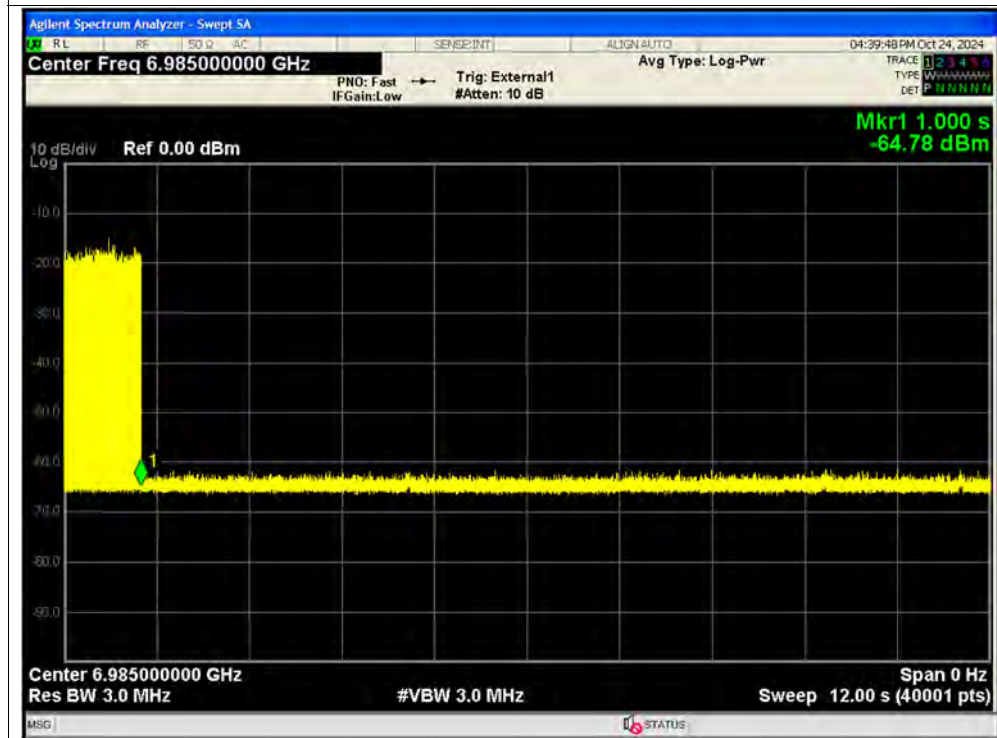


Contention Based Protocol NVNT ax160 6985MHz Interfere 7060 MHz_4

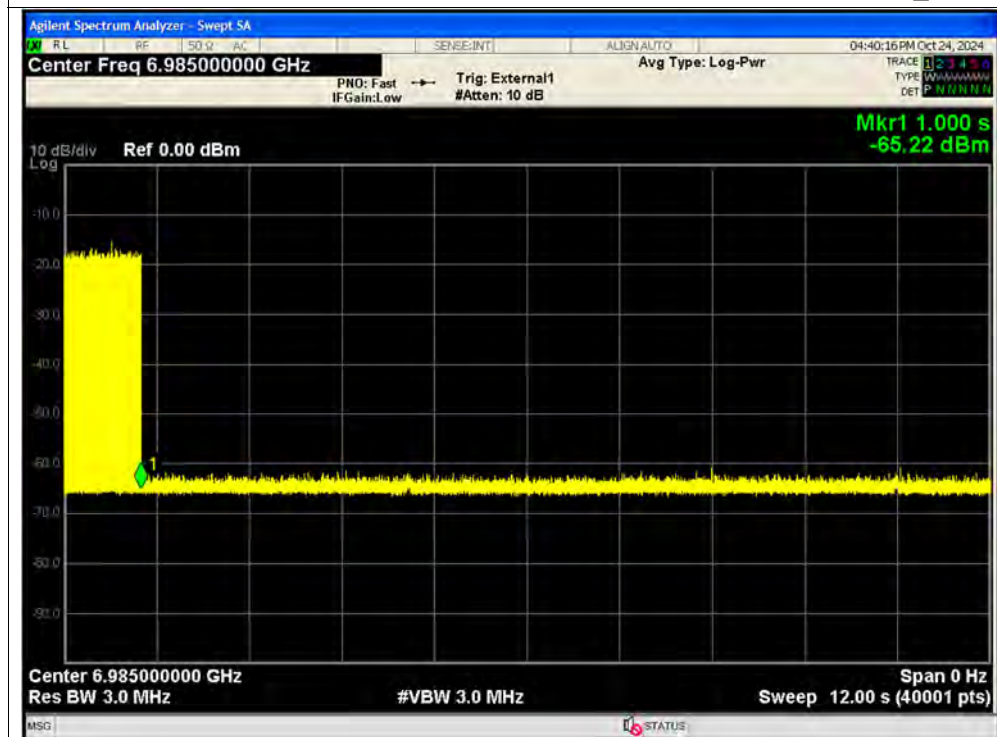




Contention Based Protocol NVNT ax160 6985MHz Interfere 7060 MHz_5

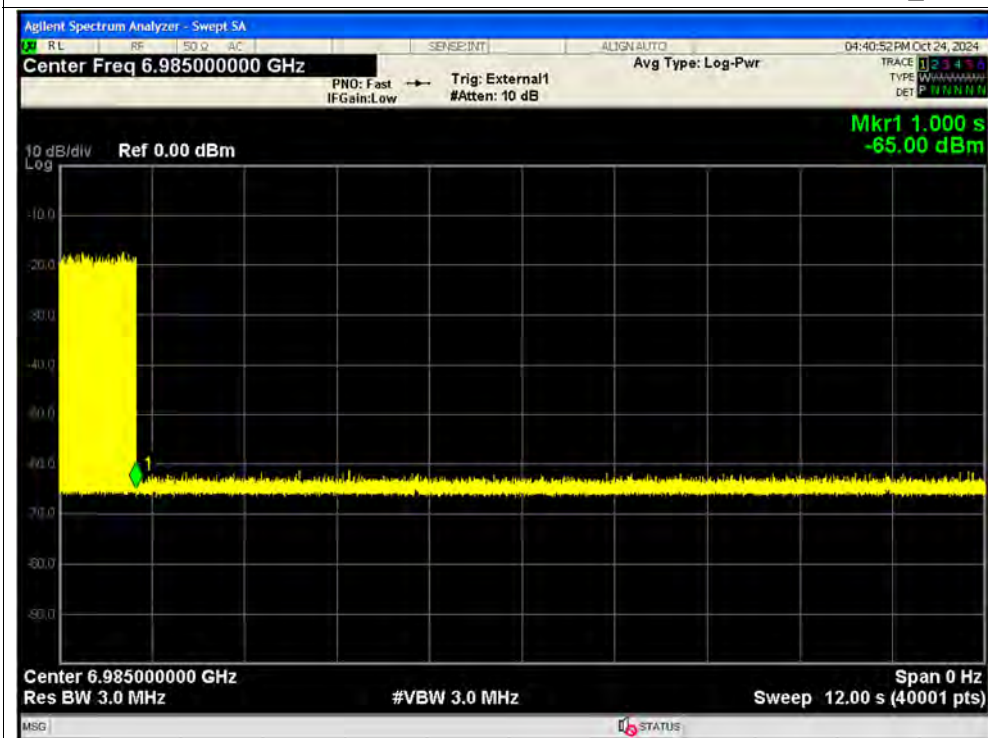


Contention Based Protocol NVNT ax160 6985MHz Interfere 7060 MHz_6

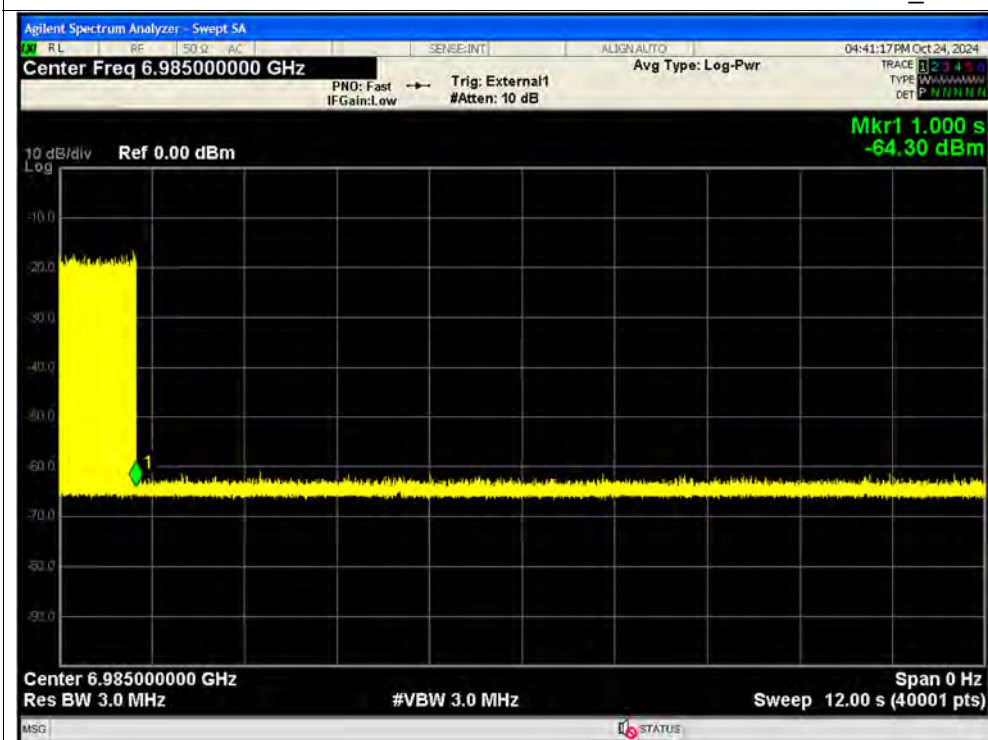




Contention Based Protocol NVNT ax160 6985MHz Interfere 7060 MHz_7

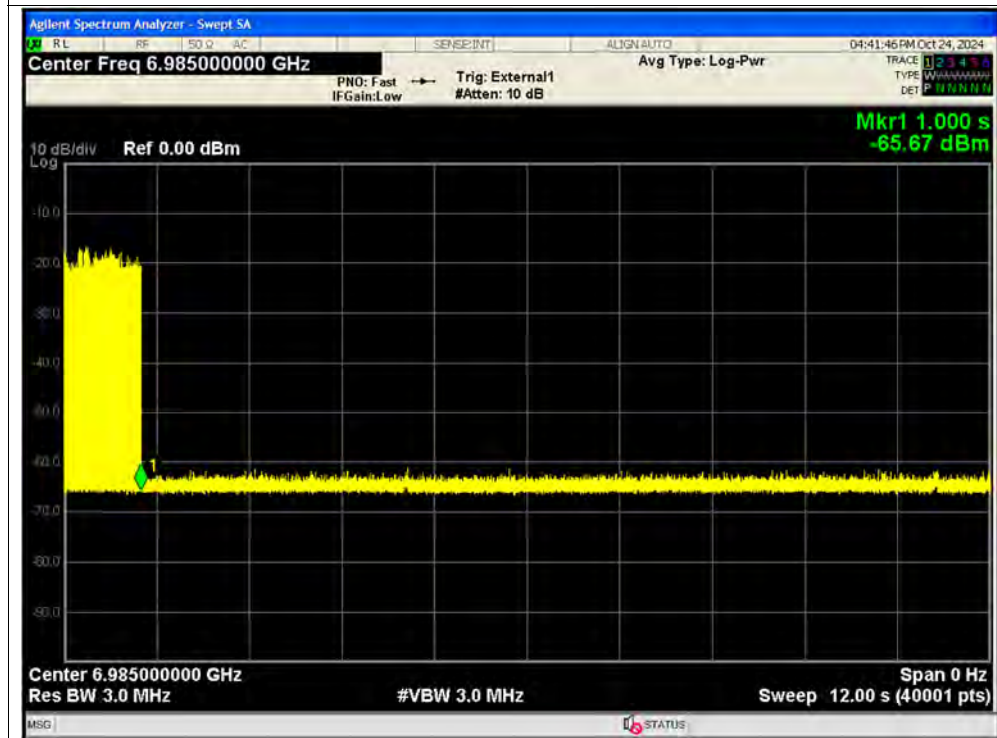


Contention Based Protocol NVNT ax160 6985MHz Interfere 7060 MHz_8

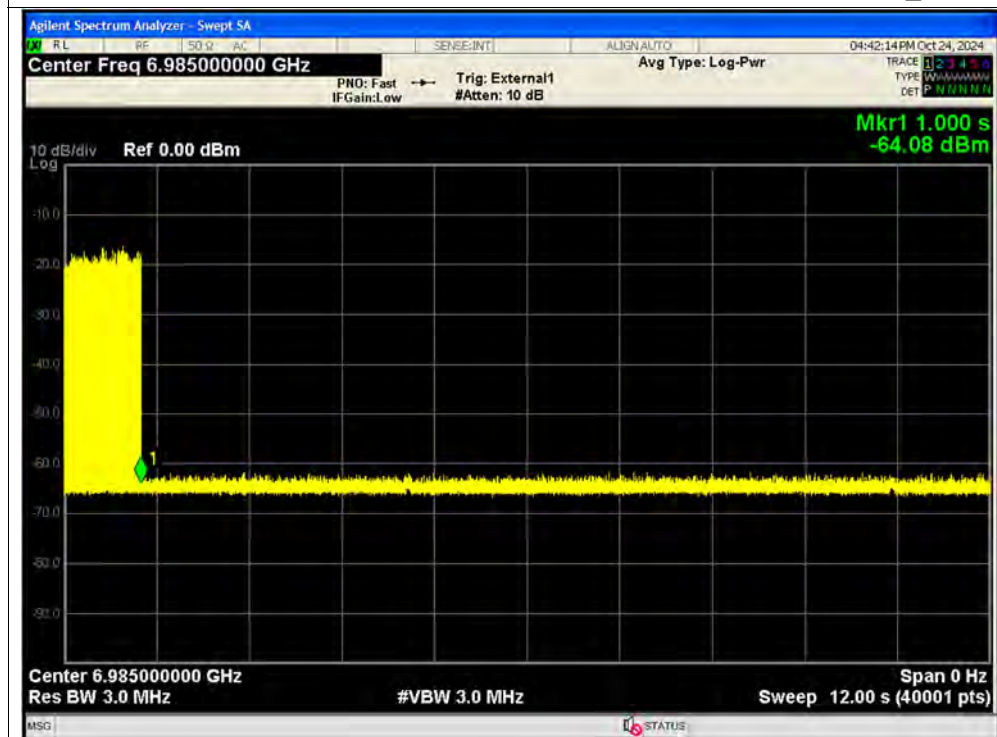




Contention Based Protocol NVNT ax160 6985MHz Interfere 7060 MHz_9



Contention Based Protocol NVNT ax160 6985MHz Interfere 7060 MHz_10



**e. Detection Probability Summary**

Condition	Mode	Frequency (MHz)	Antenna	AWGN Location	AWGN Frequency (MHz)	Test Number	Number Detected	Result (%)	Limit (%)	Verdict
NVNT	ax20	6175	Ant1	Center	6175	10	10	100	90	Pass
NVNT	ax20	6475	Ant1	Center	6475	10	10	100	90	Pass
NVNT	ax20	6675	Ant1	Center	6675	10	10	100	90	Pass
NVNT	ax20	6975	Ant1	Center	6975	10	10	100	90	Pass
NVNT	ax160	6185	Ant1	Low	6110	10	10	100	90	Pass
NVNT	ax160	6185	Ant1	Center	6185	10	10	100	90	Pass
NVNT	ax160	6185	Ant1	High	6260	10	10	100	90	Pass
NVNT	ax160	6665	Ant1	Low	6590	10	10	100	90	Pass
NVNT	ax160	6665	Ant1	Center	6665	10	10	100	90	Pass
NVNT	ax160	6665	Ant1	High	6740	10	10	100	90	Pass
NVNT	ax160	6985	Ant1	Low	6910	10	10	100	90	Pass
NVNT	ax160	6985	Ant1	Center	6985	10	10	100	90	Pass
NVNT	ax160	6985	Ant1	High	7060	10	10	100	90	Pass

**A.7. Frequency Stability**

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 3.5V	CW	5955	Ant1	5955.025	25000	4.2	25	Pass
20C 3.87V	CW	5955	Ant1	5955.023	23000	3.86	25	Pass
20C 4.45V	CW	5955	Ant1	5955.022	22000	3.69	25	Pass
-20C 3.87V	CW	5955	Ant1	5955.024	24000	4.03	25	Pass
-10C 3.87V	CW	5955	Ant1	5955.023	23000	3.86	25	Pass
0C 3.87V	CW	5955	Ant1	5955.023	23000	3.86	25	Pass
10C 3.87V	CW	5955	Ant1	5955.023	23000	3.86	25	Pass
30C 3.87V	CW	5955	Ant1	5955.022	22000	3.69	25	Pass
40C 3.87V	CW	5955	Ant1	5955.021	21000	3.53	25	Pass
50C 3.87V	CW	5955	Ant1	5955.022	22000	3.69	25	Pass
60C 3.87V	CW	5955	Ant1	5955.022	22000	3.69	25	Pass
20C 3.5V	CW	6435	Ant1	6435.023	23000	3.57	25	Pass
20C 3.87V	CW	6435	Ant1	6435.023	23000	3.57	25	Pass
20C 4.45V	CW	6435	Ant1	6435.022	22000	3.42	25	Pass
-20C 3.87V	CW	6435	Ant1	6435.022	22000	3.42	25	Pass
-10C 3.87V	CW	6435	Ant1	6435.022	22000	3.42	25	Pass
0C 3.87V	CW	6435	Ant1	6435.022	22000	3.42	25	Pass
10C 3.87V	CW	6435	Ant1	6435.022	22000	3.42	25	Pass
30C 3.87V	CW	6435	Ant1	6435.022	22000	3.42	25	Pass



REPORT No.: SZ24050253W05

40C 3.87V	CW	6435	Ant1	6435.022	22000	3.42	25	Pass
50C 3.87V	CW	6435	Ant1	6435.022	22000	3.42	25	Pass
60C 3.87V	CW	6435	Ant1	6435.022	22000	3.42	25	Pass
20C 3.5V	CW	6535	Ant1	6535.024	24000	3.67	25	Pass
20C 3.87V	CW	6535	Ant1	6535.023	23000	3.52	25	Pass
20C 4.45V	CW	6535	Ant1	6535.023	23000	3.52	25	Pass
-20C 3.87V	CW	6535	Ant1	6535.024	24000	3.67	25	Pass
-10C 3.87V	CW	6535	Ant1	6535.024	24000	3.67	25	Pass
0C 3.87V	CW	6535	Ant1	6535.023	23000	3.52	25	Pass
10C 3.87V	CW	6535	Ant1	6535.024	24000	3.67	25	Pass
30C 3.87V	CW	6535	Ant1	6535.023	23000	3.52	25	Pass
40C 3.87V	CW	6535	Ant1	6535.023	23000	3.52	25	Pass
50C 3.87V	CW	6535	Ant1	6535.024	24000	3.67	25	Pass
60C 3.87V	CW	6535	Ant1	6535.023	23000	3.52	25	Pass
20C 3.5V	CW	6875	Ant1	6875.024	24000	3.49	25	Pass
20C 3.87V	CW	6875	Ant1	6875.024	24000	3.49	25	Pass
20C 4.45V	CW	6875	Ant1	6875.024	24000	3.49	25	Pass
-20C 3.87V	CW	6875	Ant1	6875.024	24000	3.49	25	Pass
-10C 3.87V	CW	6875	Ant1	6875.023	23000	3.35	25	Pass
0C 3.87V	CW	6875	Ant1	6875.024	24000	3.49	25	Pass
10C 3.87V	CW	6875	Ant1	6875.024	24000	3.49	25	Pass
30C	CW	6875	Ant1	6875.024	24000	3.49	25	Pass



REPORT No.: SZ24050253W05

3.87V								
40C 3.87V	CW	6875	Ant1	6875.024	24000	3.49	25	Pass
50C 3.87V	CW	6875	Ant1	6875.024	24000	3.49	25	Pass
60C 3.87V	CW	6875	Ant1	6875.024	24000	3.49	25	Pass



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+Adapter+Charging base+Data line+WIFI TX

Test voltage: AC 120V/60Hz

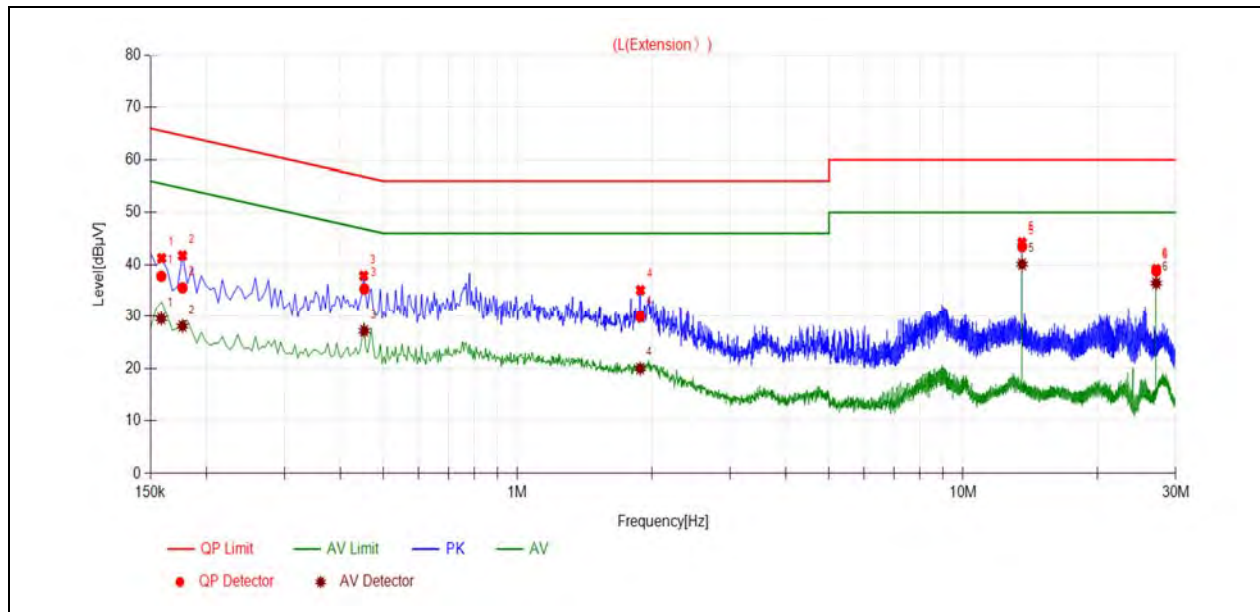
The measurement results are obtained as below:

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

U_R : Receiver Reading

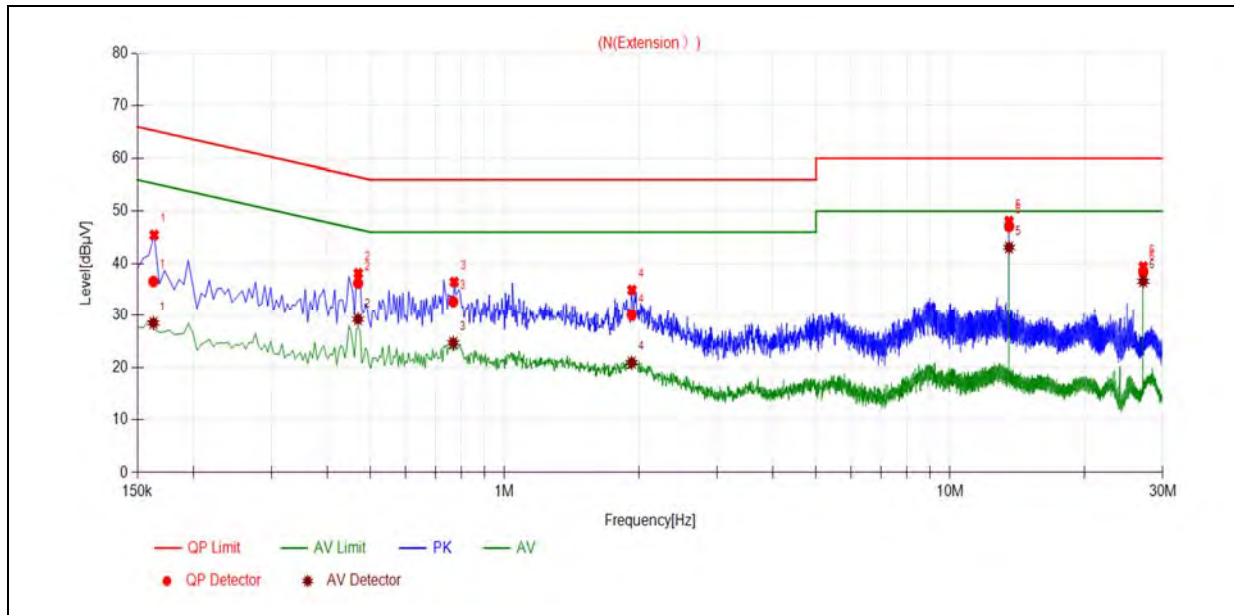
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1586	37.78	29.55	65.53	55.53	Line	PASS
2	0.1770	35.56	28.09	64.62	54.62		PASS
3	0.4529	35.34	27.16	56.82	46.82		PASS
4	1.8841	29.92	19.96	56.00	46.00		PASS
5	13.5603	43.47	40.10	60.00	50.00		PASS
6	27.1203	38.79	36.46	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	0.1629	36.58	28.48	65.31	55.31	Neutral	PASS
2	0.4689	36.26	29.21	56.53	46.53		PASS
3	0.7671	32.70	24.69	56.00	46.00		PASS
4	1.9293	30.04	20.90	56.00	46.00		PASS
5	13.5603	47.08	43.09	60.00	50.00		PASS
6	27.1208	38.42	36.63	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

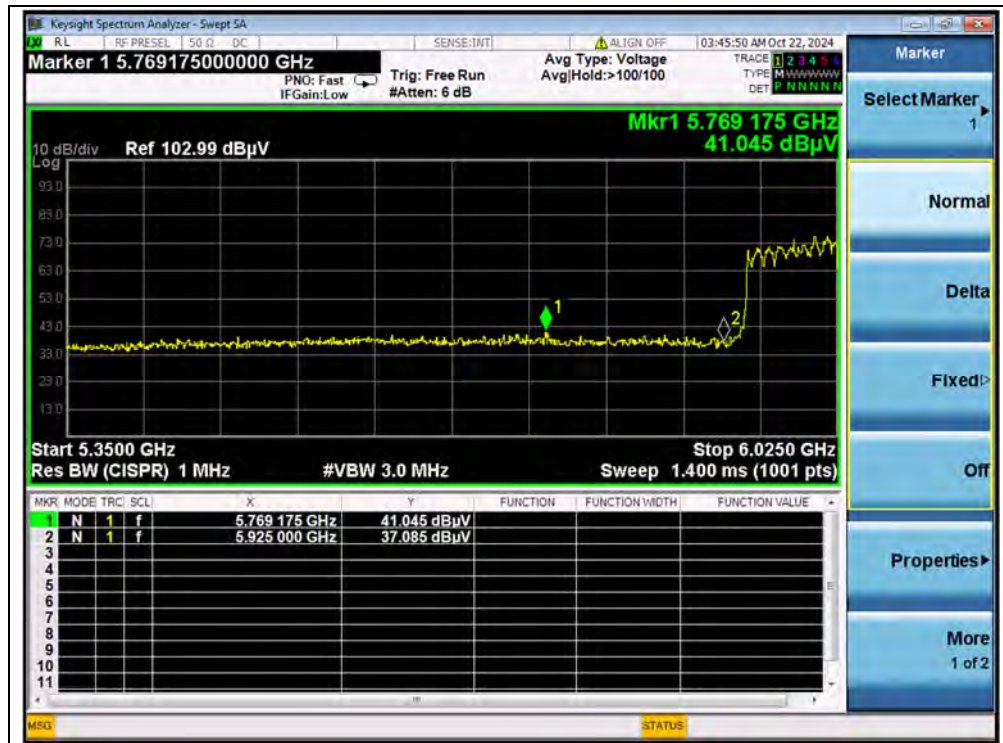
Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (horizontal) was recorded in this test report.

Note 2: Restricted Frequency Bands were performed in X, Y, Z axis direction, and only the worst axis (X axis) test condition was recorded in this test report.

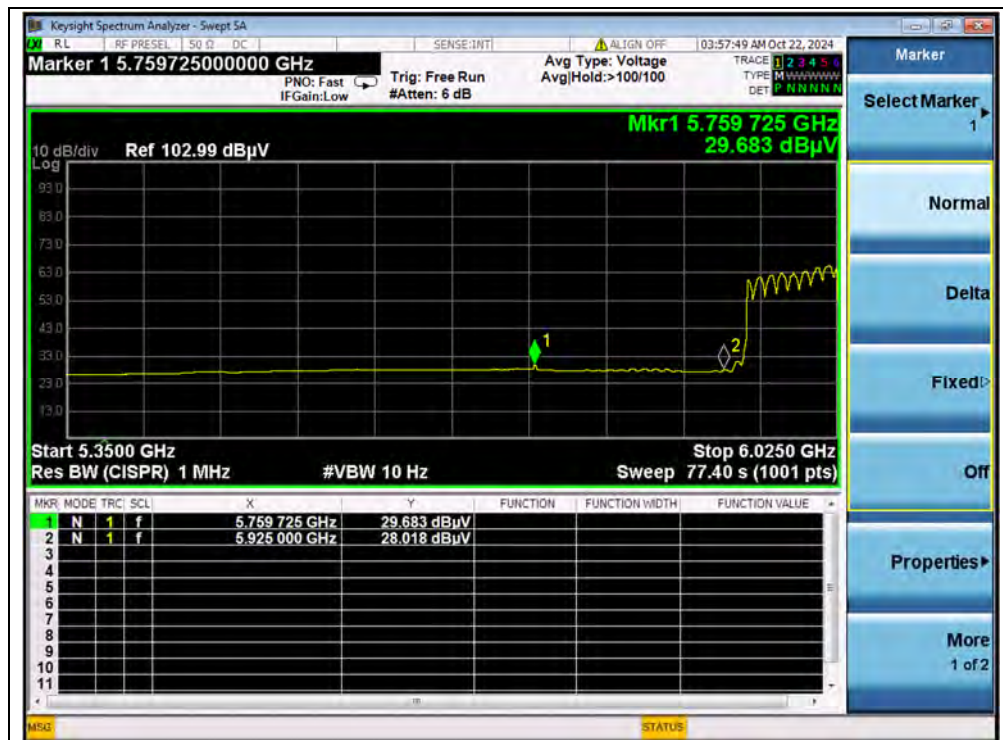
Note 3: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded.

802.11ax160 Mode

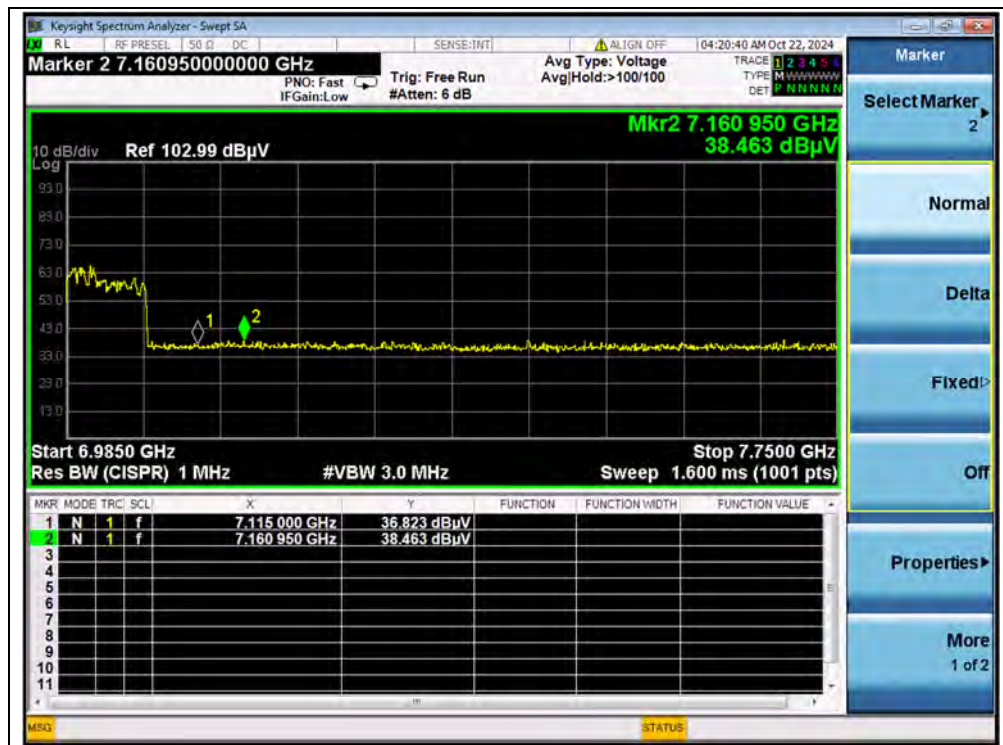
Ch.	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
15	5769.18	PK	41.05	35.50	-14.70	61.85	88.63	PASS
15	5759.73	AV	29.68	35.50	-14.70	50.48	68.26	PASS
207	7149.70	PK	38.55	35.50	-14.70	59.35	88.63	PASS
207	7144.12	AV	26.85	35.50	-14.70	47.65	68.26	PASS



(PEAK, Channel 15, 802.11ax160)



(AVERAGE, Channel 15, 802.11ax160)



(PEAK, Channel 207, 802.11ax160)



(AVERAGE, Channel 207, 802.11ax160)



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 a 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 (X 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 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note 4: All test modes, bandwidth and channel were considered and evaluated respectively by performing full test, only the worst data were recorded.

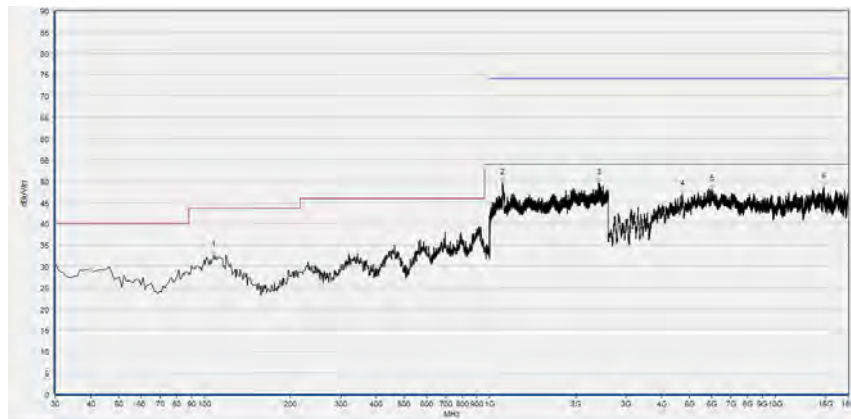
Field strength of fundamental:

Frequency (MHz)	Reading_Peak (dB μ V/m)	Antenna Factor (dB)	Path Loss (dB)	Final_Peak (dB μ V/m)	Antenna Polarity
5956.20	76.14	35.50	-14.70	96.94	Horizontal

The field strength (the lowest) of fundamental is more than 20dB higher than the unwanted emissions, in accordance with FCC part 15.215(b).

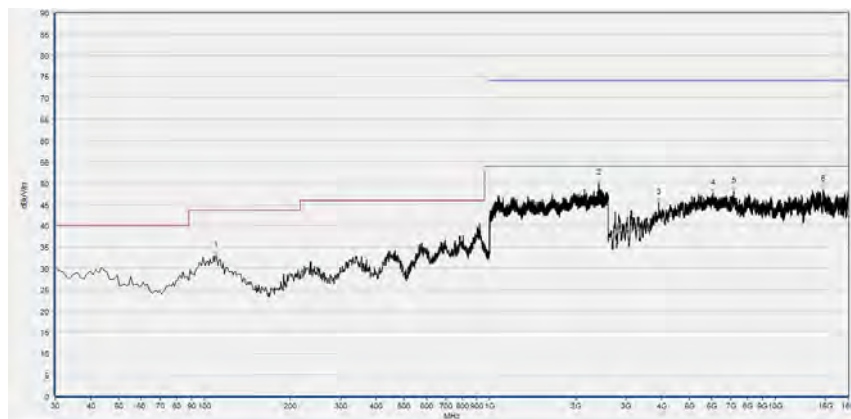
**802.11ax160 Mode**

Plot for Channel 45



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	32.58	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1108.800	49.58	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS
2413.333	49.65	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS
4731.360	46.98	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS
5994.160	48.11	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS
14809.120	48.62	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

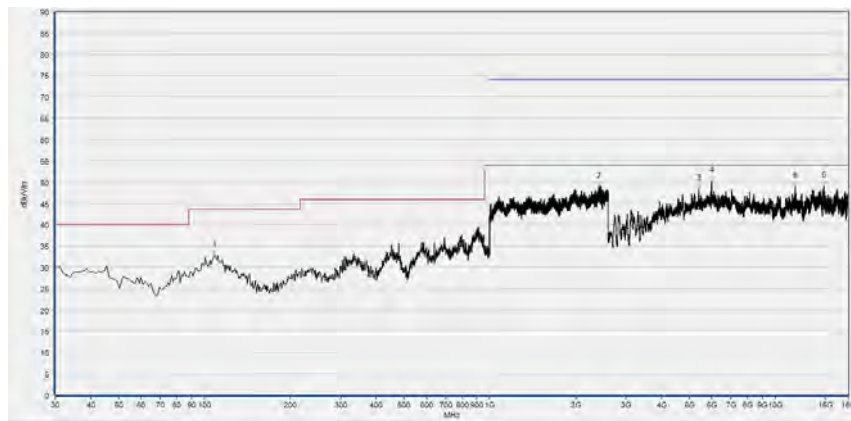


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	33.08	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2411.200	49.89	N/A	N/A	88.23	N/A	68.23	Vertical	PASS
3915.160	45.34	N/A	N/A	88.23	N/A	68.23	Vertical	PASS
6046.520	47.56	N/A	N/A	88.23	N/A	68.23	Vertical	PASS
7139.920	48.17	N/A	N/A	88.23	N/A	68.23	Vertical	PASS
14735.200	48.42	N/A	N/A	88.23	N/A	68.23	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

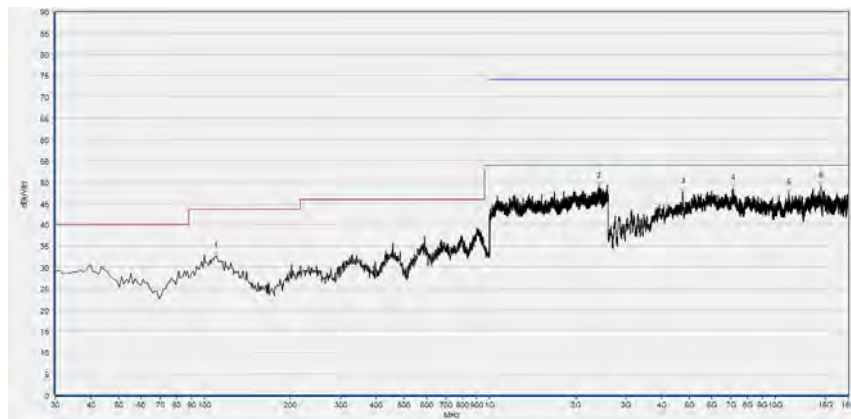


Plot for Channel 105



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	32.92	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2405.867	48.91	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS
5396.640	48.49	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS
5988.000	50.21	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS
11778.400	48.91	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS
14784.480	49.05	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS

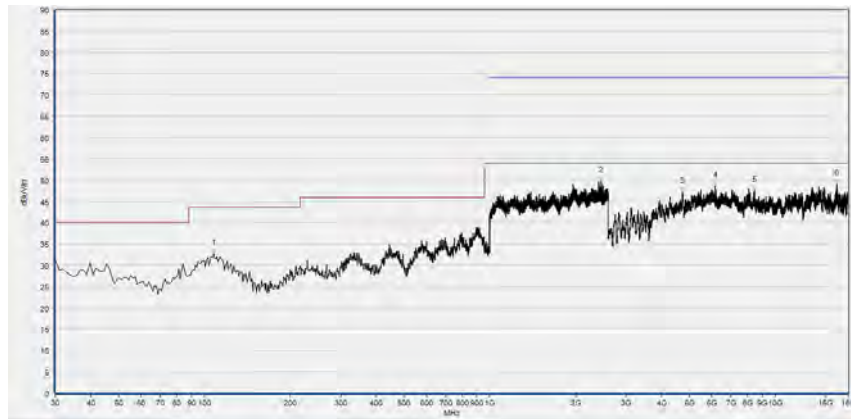
(Antenna Horizontal, 30MHz to 18GHz)



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	32.50	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2409.067	48.95	N/A	N/A	88.23	N/A	68.23	Vertical	PASS
4743.680	47.77	N/A	N/A	88.23	N/A	68.23	Vertical	PASS
7136.840	48.47	N/A	N/A	88.23	N/A	68.23	Vertical	PASS
11140.840	47.40	N/A	N/A	88.23	N/A	68.23	Vertical	PASS
14448.760	48.94	N/A	N/A	88.23	N/A	68.23	Vertical	PASS

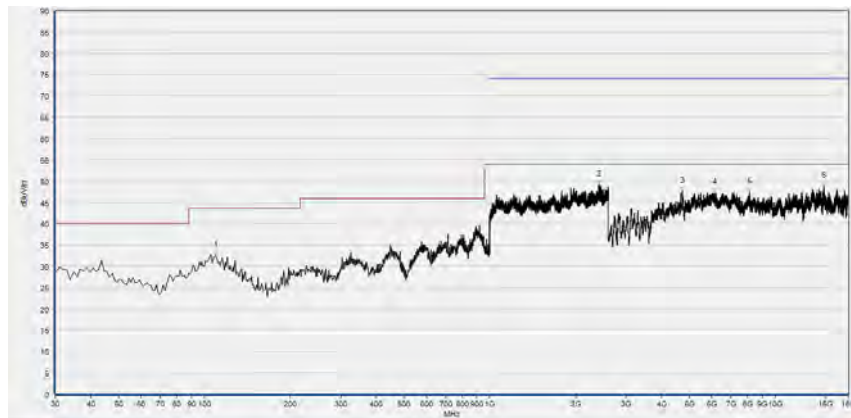
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 149



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	32.69	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2457.067	49.73	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS
4737.520	47.18	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS
6175.880	48.53	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS
8448.920	47.55	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS
16460.000	49.02	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

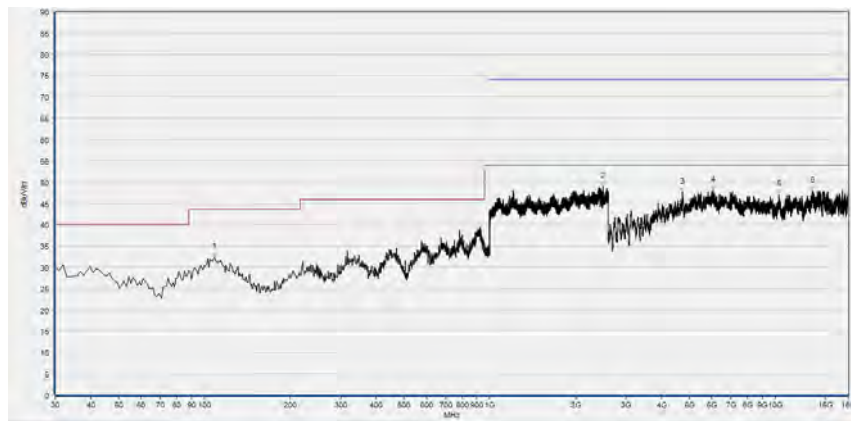


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	32.38	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2410.667	49.02	N/A	N/A	88.23	N/A	68.23	Vertical	PASS
4737.520	47.54	N/A	N/A	88.23	N/A	68.23	Vertical	PASS
6111.200	47.24	N/A	N/A	88.23	N/A	68.23	Vertical	PASS
8147.080	47.38	N/A	N/A	88.23	N/A	68.23	Vertical	PASS
14762.920	48.70	N/A	N/A	88.23	N/A	68.23	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



Plot for Channel 209



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	32.33	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2488.533	48.94	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS
4731.360	47.63	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS
6040.360	48.15	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS
10318.480	47.13	N/A	N/A	88.23	N/A	68.23	Horizontal	PASS
13490.880	47.95	N/A	N/A	88.23	N/A	68.23	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	32.83	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2411.733	50.06	N/A	N/A	88.23	N/A	68.23	Vertical	PASS
3909.000	45.26	N/A	N/A	88.23	N/A	68.23	Vertical	PASS
5803.200	47.34	N/A	N/A	88.23	N/A	68.23	Vertical	PASS
10275.360	46.77	N/A	N/A	88.23	N/A	68.23	Vertical	PASS
14784.480	48.47	N/A	N/A	88.23	N/A	68.23	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT