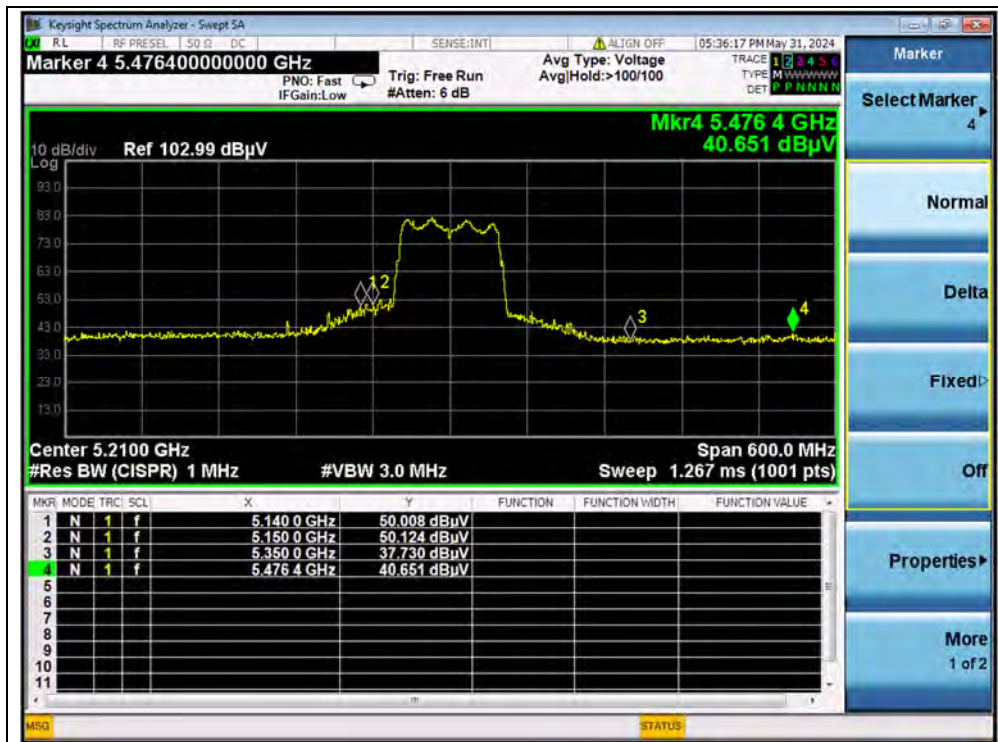


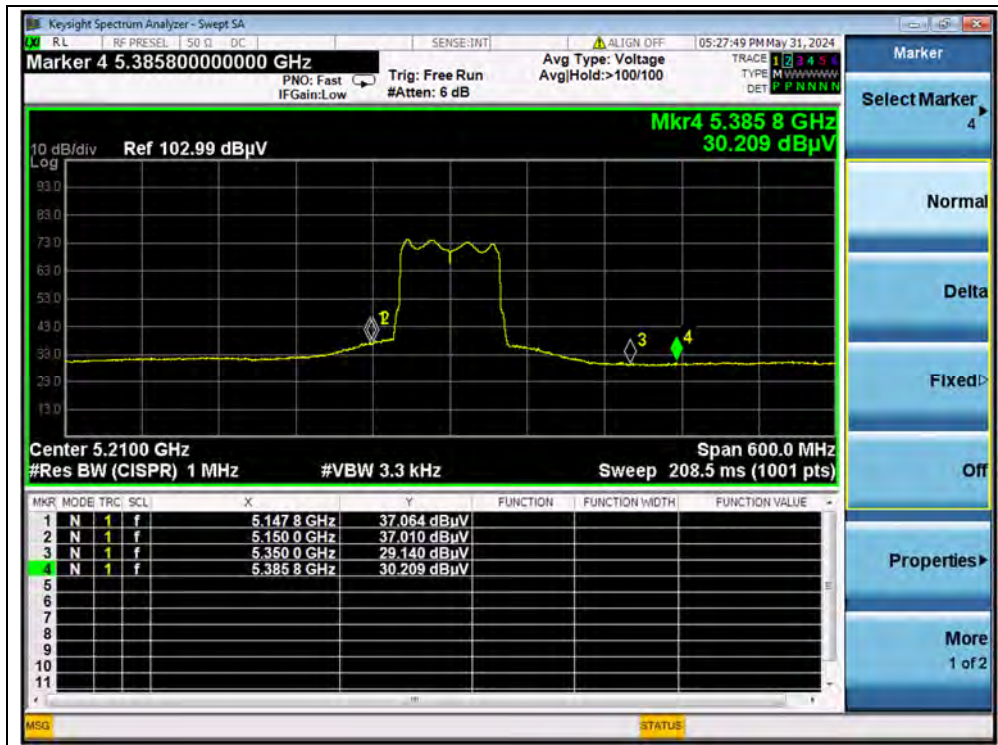


802.11ac (VHT80) Mode

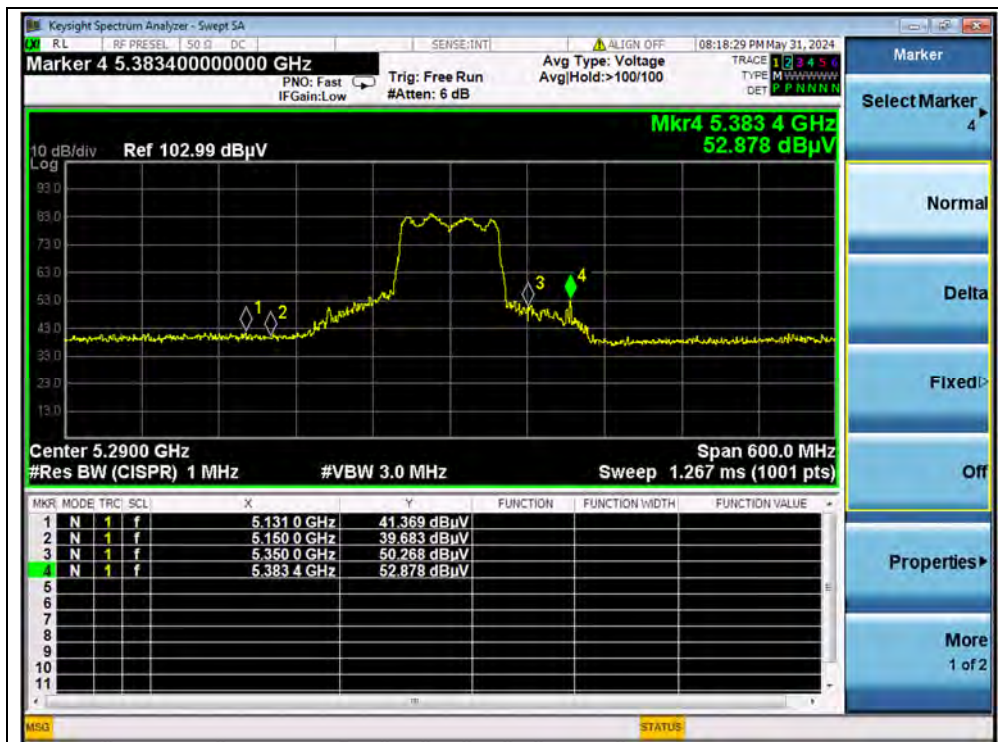
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
42	5150.00	PK	50.12	-21.29	32.20	61.03	74	PASS
42	5147.80	AV	37.06	-21.29	32.20	47.97	54	PASS
58	5383.40	PK	52.88	-20.66	32.20	64.42	74	PASS
58	5350.00	AV	38.88	-20.66	32.20	50.42	54	PASS
106	5456.86	PK	52.36	-20.24	32.20	64.32	74	PASS
106	5460.00	AV	38.74	-20.24	32.20	50.70	54	PASS
138	5727.00	PK	42.16	-20.24	32.20	54.12	68.23	PASS
155	5720.00	PK	59.48	-21.11	32.20	70.57	110.83	PASS
155	5855.00	PK	56.28	-21.11	32.20	67.37	110.83	PASS



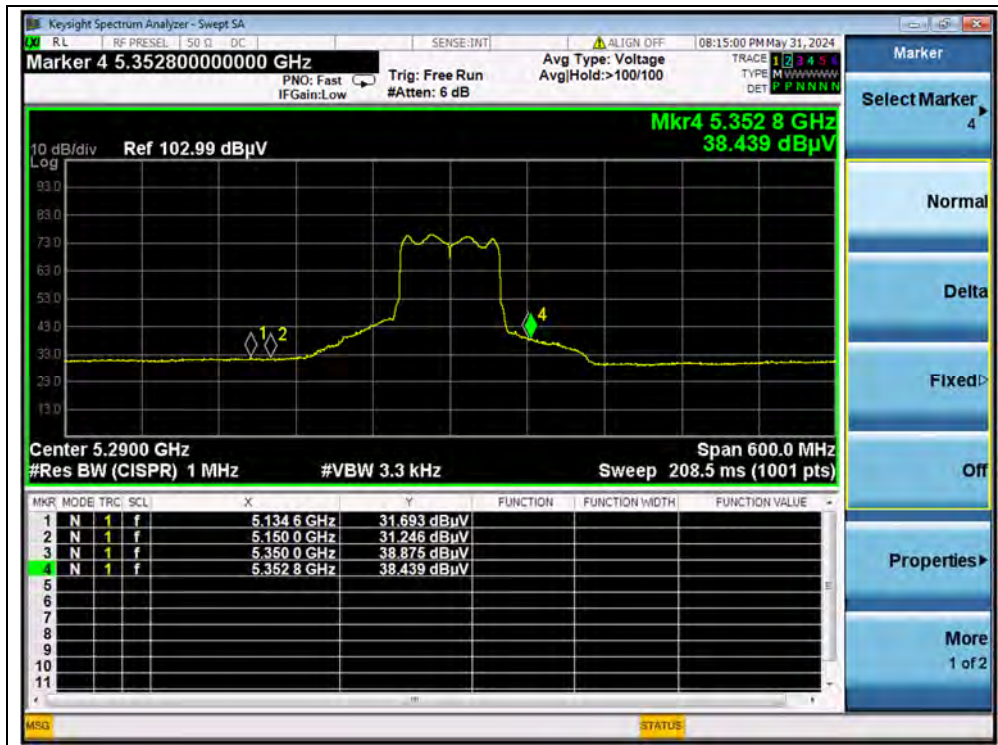
(PEAK, Channel 42, 802.11ac (VHT80))



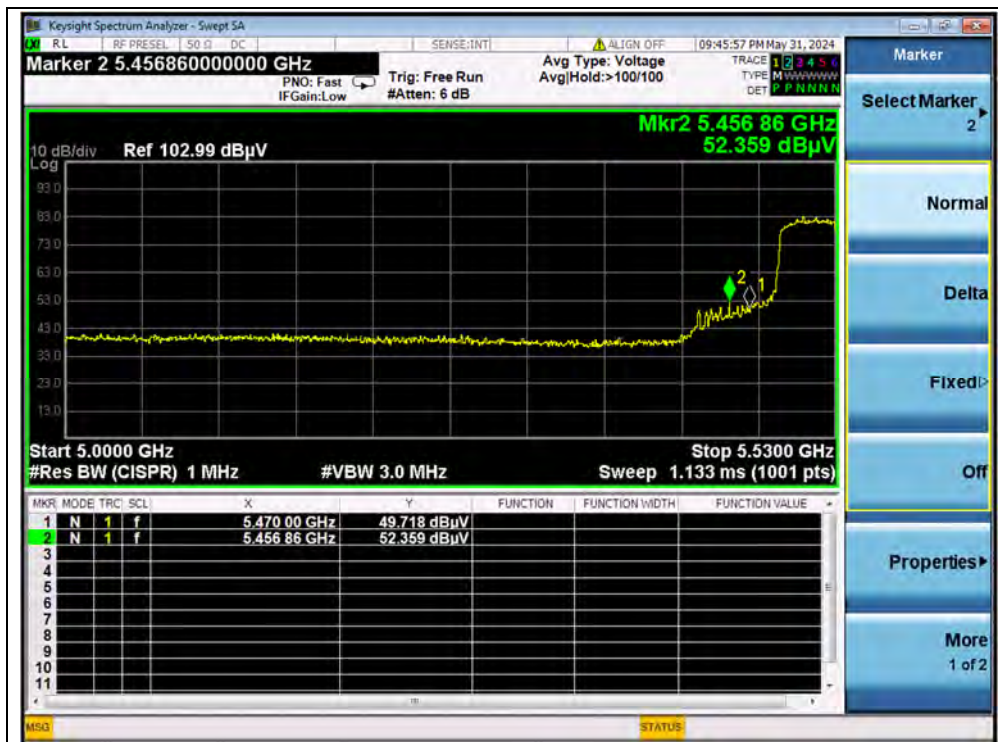
(AVERAGE, Channel 42, 802.11ac (VHT80))



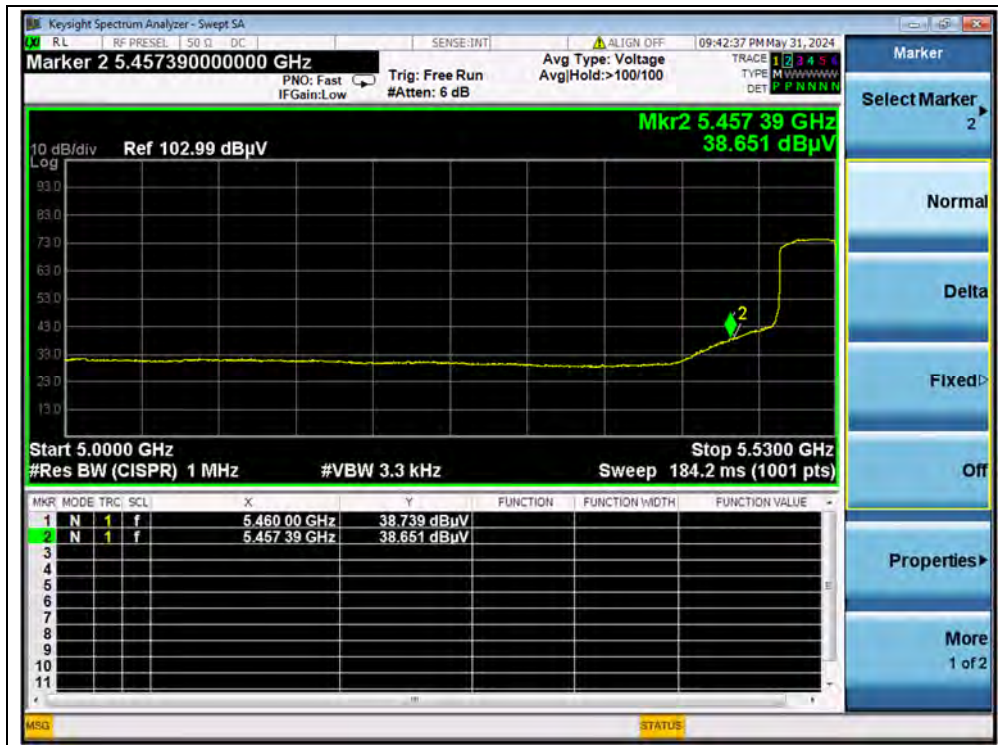
(PEAK, Channel 58, 802.11ac (VHT80))



(AVERAGE, Channel 58, 802.11ac (VHT80))



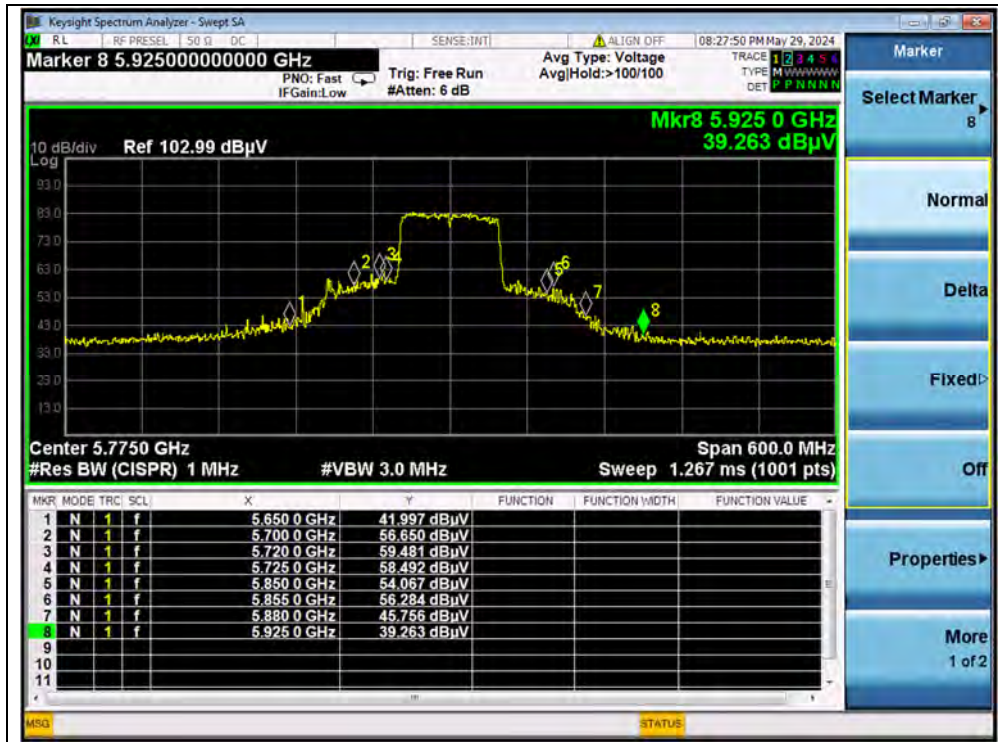
(PEAK, Channel 106, 802.11ac (VHT80))



(AVERAGE, Channel 106, 802.11ac (VHT80))



(PEAK, Channel 138, 802.11ac (VHT80))



(PEAK, Channel 155, 802.11ac (VHT80))



A.9. 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 (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.

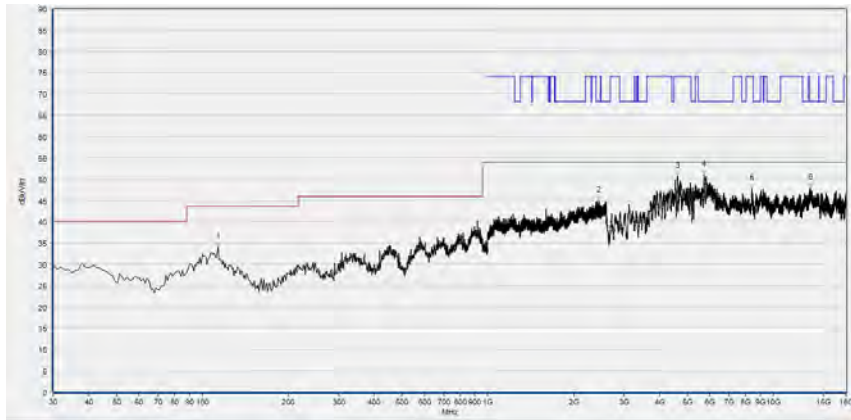
Note3: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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



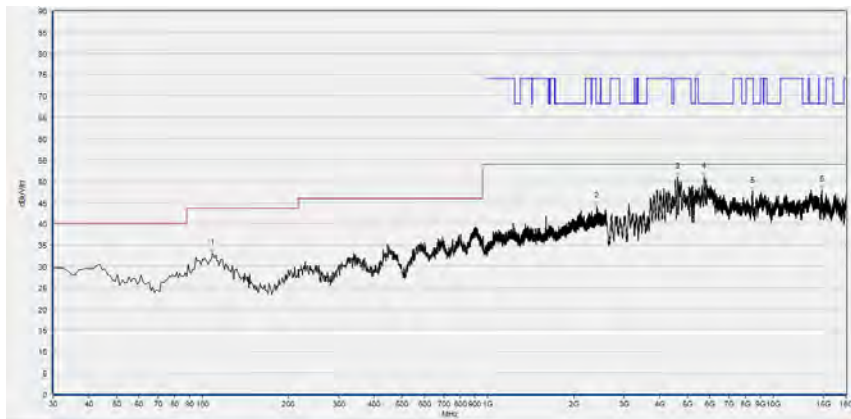
802.11a Mode

Plot for Channel 44



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
113.504	34.04	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2447.949	44.95	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4614.723	50.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5732.987	50.95	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8428.526	47.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13468.414	47.87	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

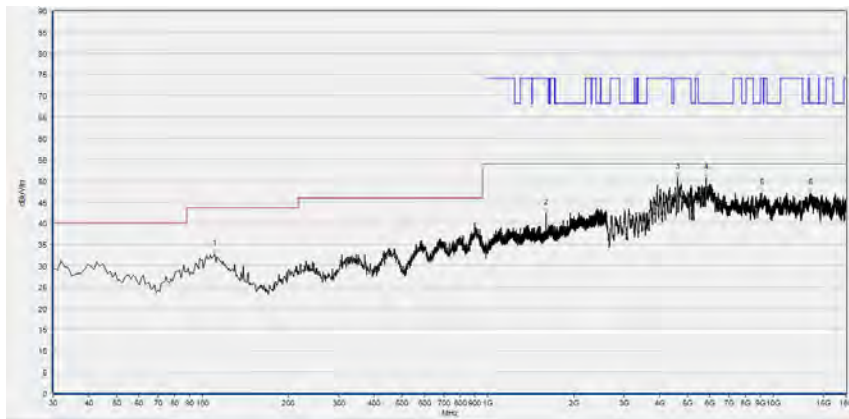
(Antenna Horizontal, 30MHz to 18GHz)



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
108.649	33.10	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2409.003	44.10	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4627.045	50.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5732.987	50.94	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8465.493	47.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14777.676	47.91	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

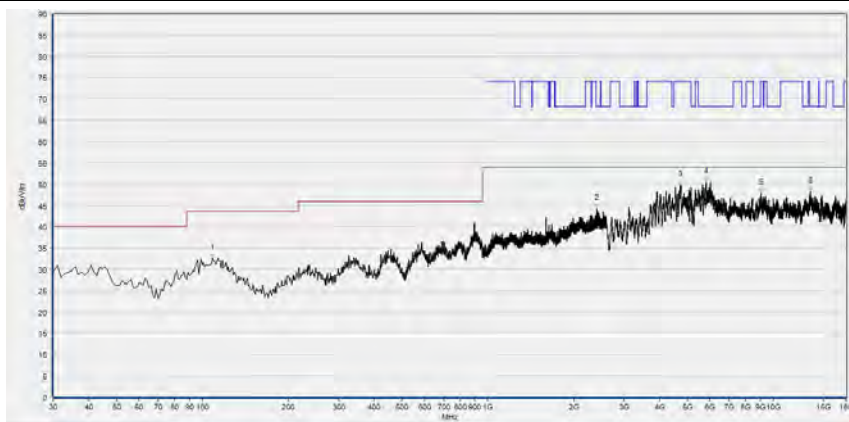
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 60



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
110.591	32.62	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1600.200	42.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4627.045	50.78	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5822.324	50.61	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9093.939	47.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13462.252	47.03	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

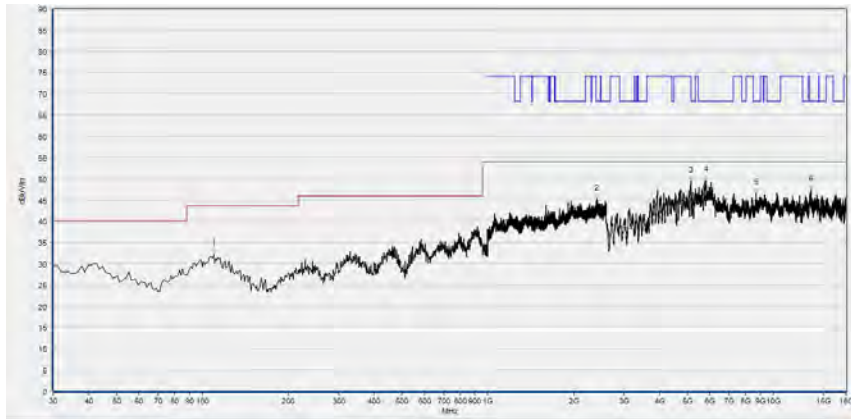
(Antenna Horizontal, 30MHz to 18GHz)



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
108.649	32.44	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2410.070	44.27	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4737.948	49.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5810.002	50.38	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9084.697	47.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13489.978	48.20	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

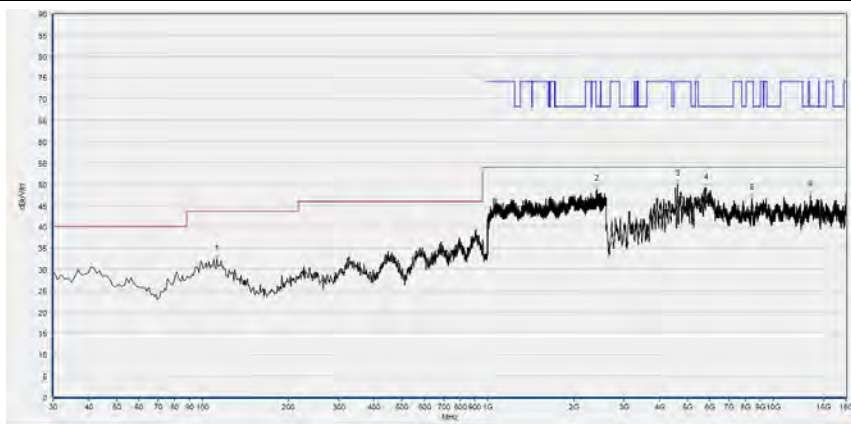
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 120



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	32.23	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2403.200	45.21	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5141.000	49.48	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5812.440	49.58	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8701.480	46.53	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13567.880	47.39	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

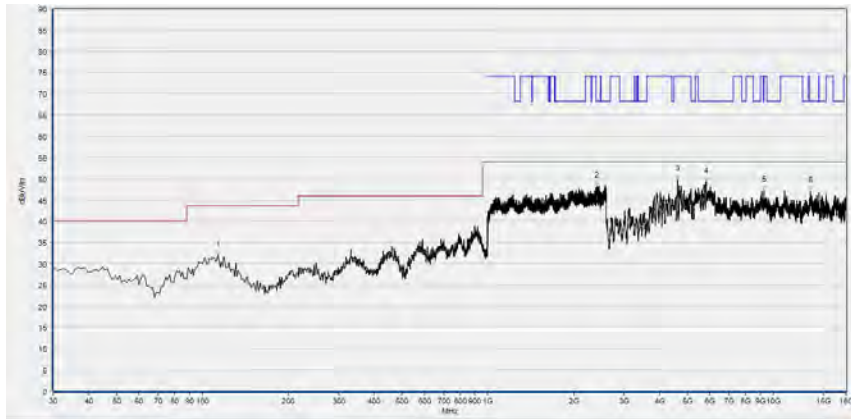
(Antenna Horizontal, 30MHz to 18GHz)



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
112.450	32.32	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2410.133	48.79	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4620.480	50.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5815.520	49.03	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8424.280	46.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13466.240	47.37	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

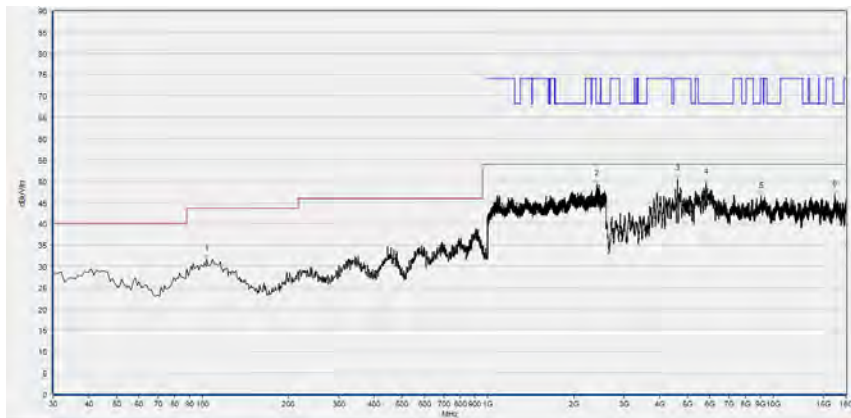
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 157



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	32.04	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2408.000	48.27	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4620.480	49.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5812.440	49.26	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9283.600	47.20	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13484.720	47.12	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

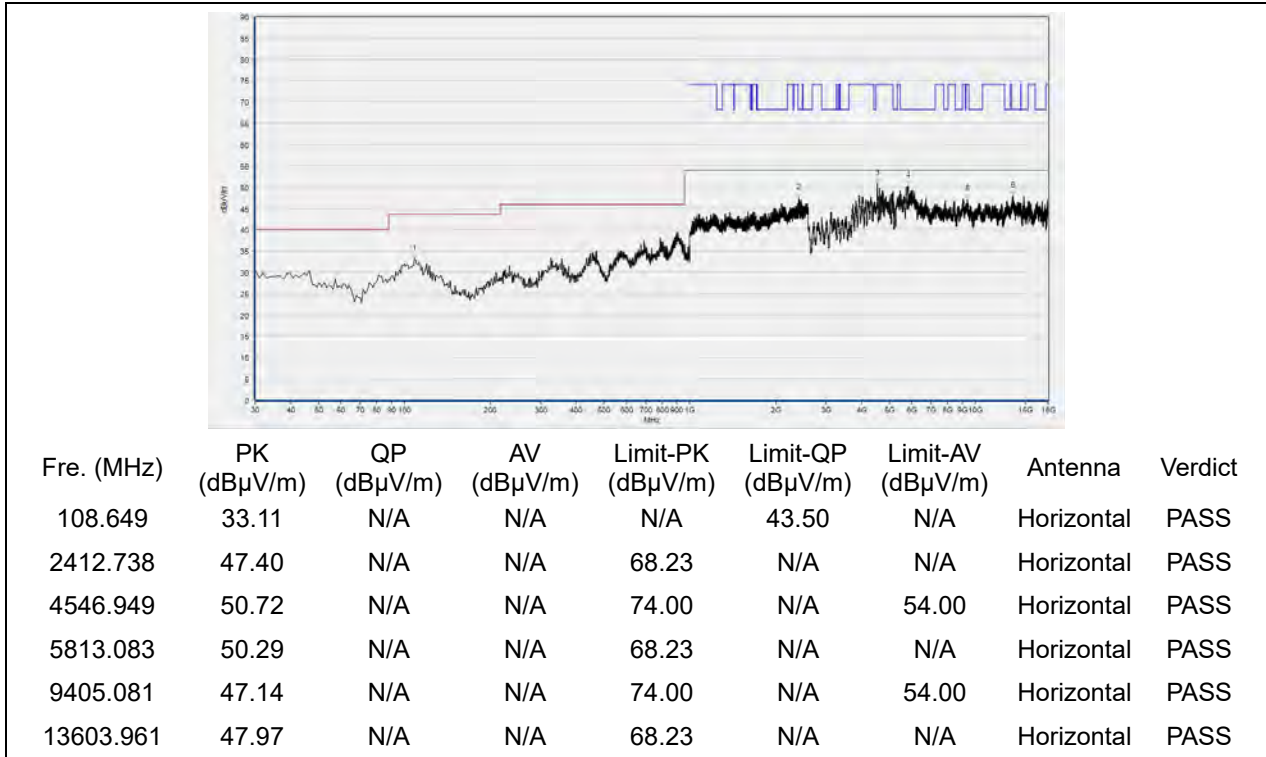


Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
103.720	31.65	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2412.267	49.32	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4623.560	50.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5818.600	49.58	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9086.480	46.48	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
16456.920	46.85	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

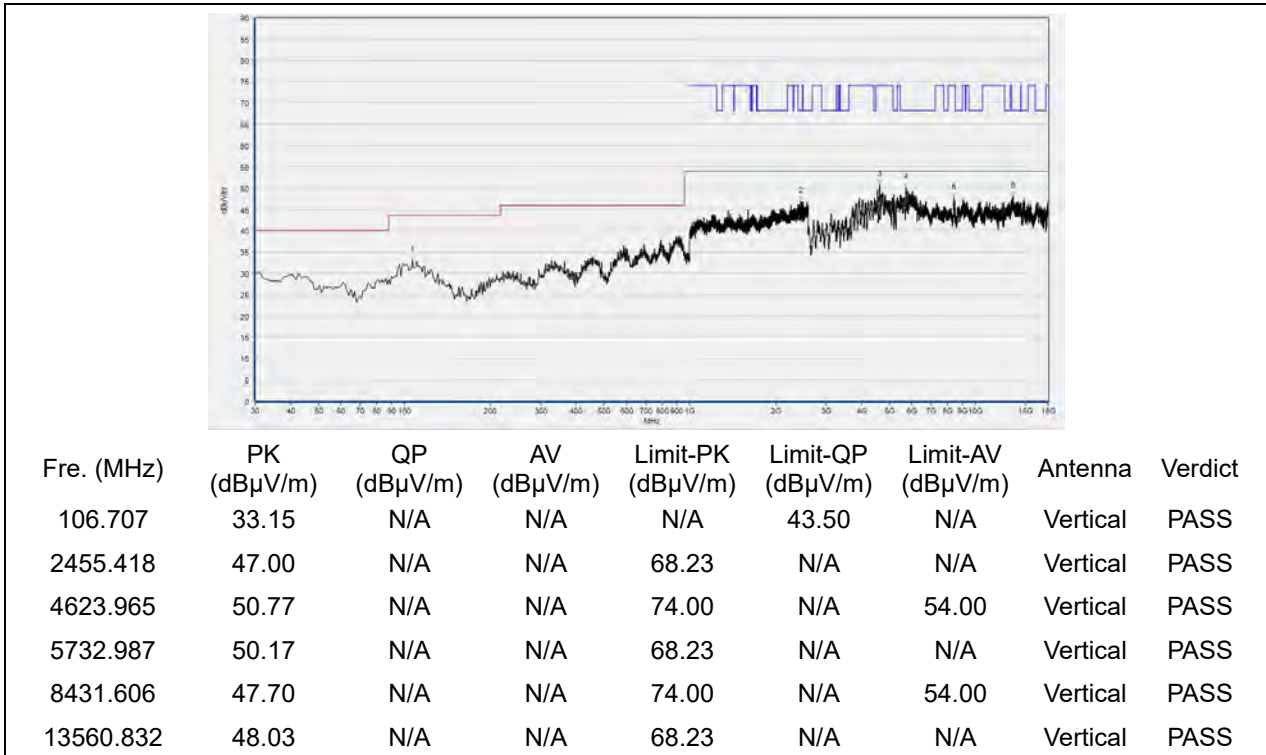
(Antenna Vertical, 30MHz to 18GHz)

802.11n (HT40) mode

Plot for Channel 46

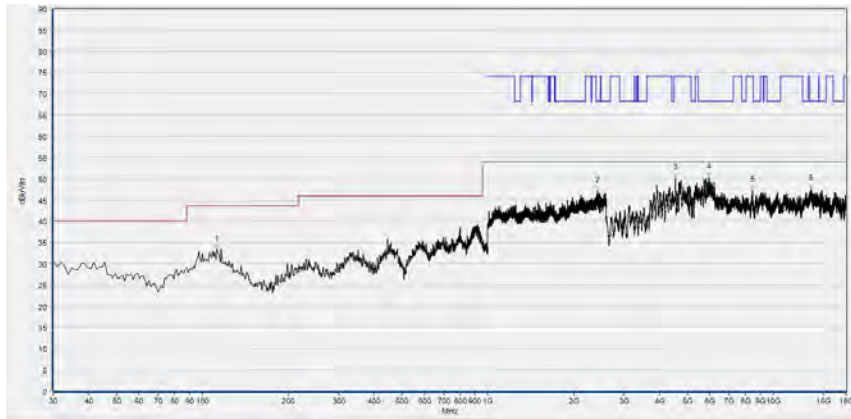


(Antenna Horizontal, 30MHz to 18GHz)



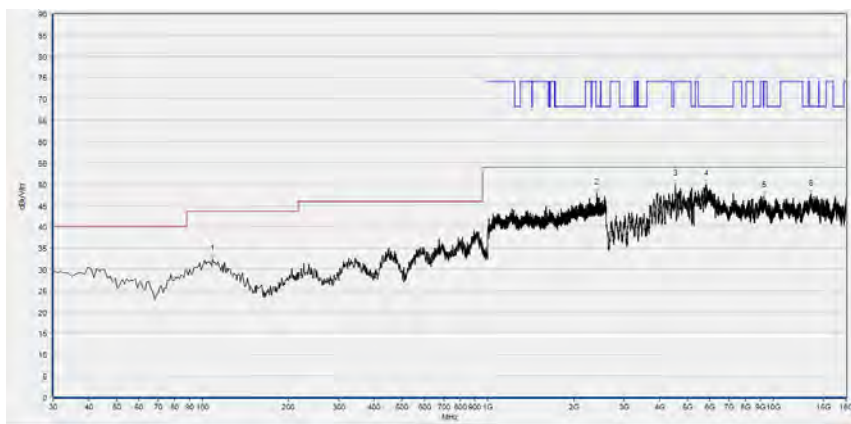
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 62



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
112.533	33.42	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2422.874	47.06	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4546.949	50.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5960.952	50.20	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8453.171	47.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13560.832	47.61	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

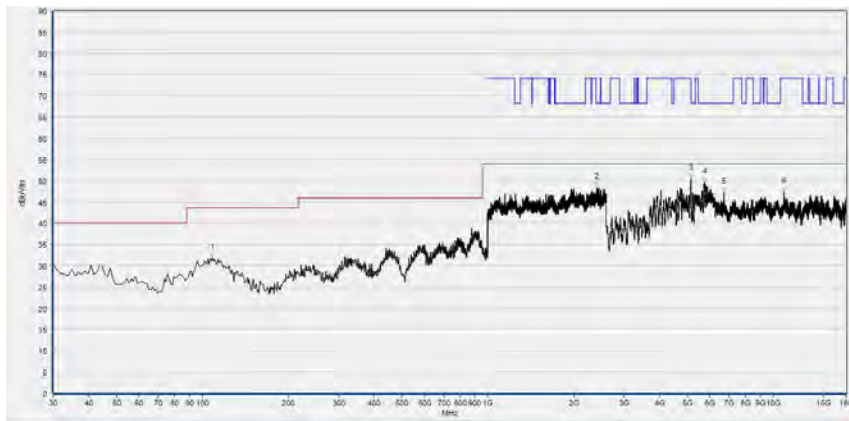
(Antenna Horizontal, 30MHz to 18GHz)



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
108.649	32.39	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2411.671	47.93	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4546.949	49.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5816.163	49.88	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9260.292	47.29	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
13582.396	47.66	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

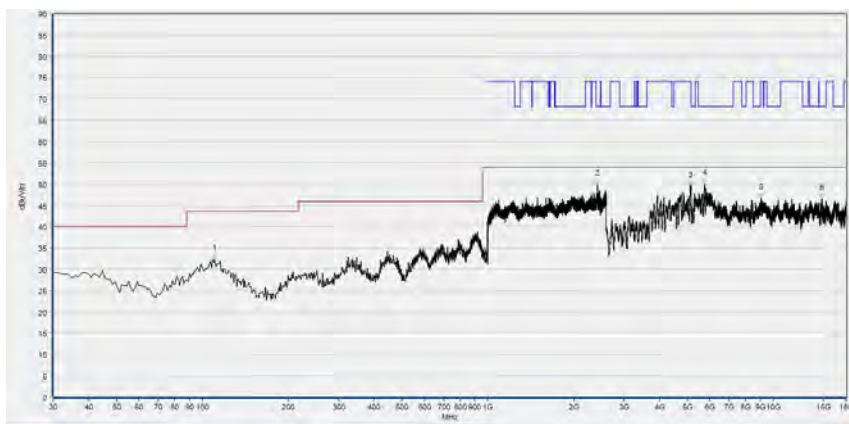
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 126



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	31.82	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2412.267	48.41	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5141.000	50.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5744.680	49.64	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
6727.200	47.27	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10900.600	47.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

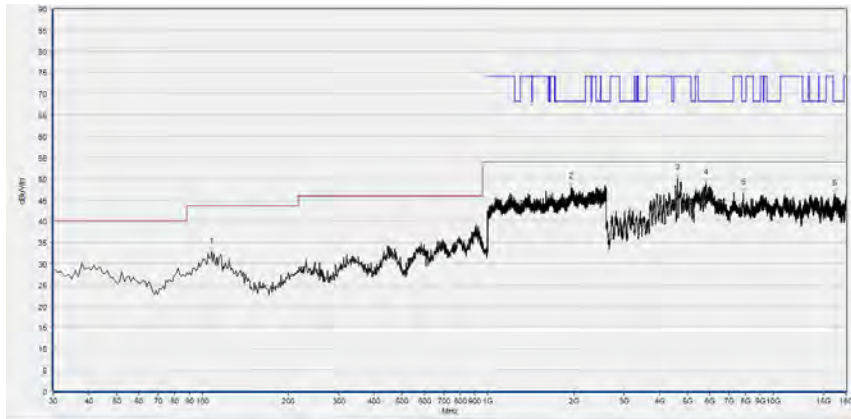
(Antenna Horizontal, 30MHz to 18GHz)



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	32.42	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2425.600	49.86	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5131.760	49.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5741.600	50.16	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9064.920	46.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14766.000	46.65	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

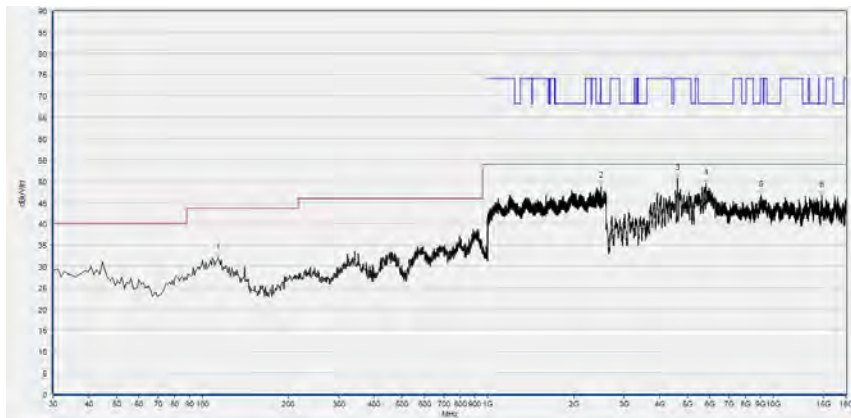
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 159



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	32.76	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1962.133	48.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4626.640	50.16	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5815.520	48.97	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7848.320	46.51	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
16426.120	46.47	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



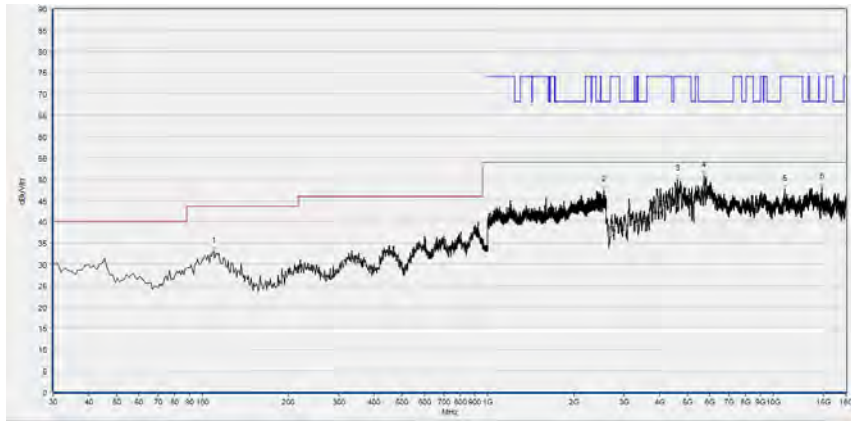
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.420	32.08	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2489.600	48.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4623.560	50.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5812.440	49.42	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9080.320	46.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14762.920	46.63	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



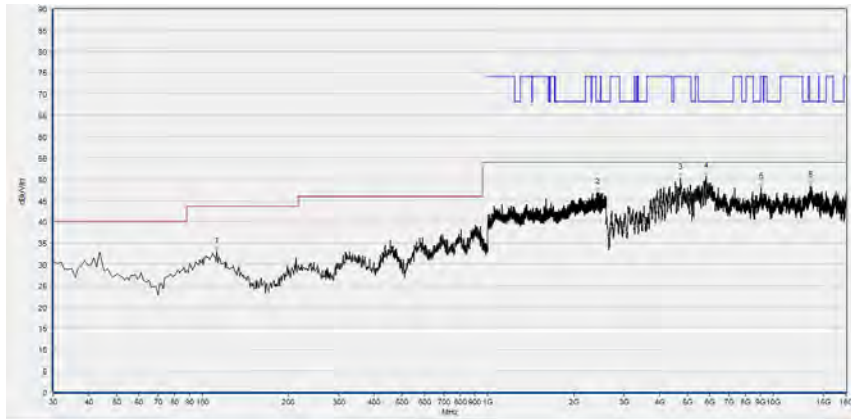
802.11ac (VHT80) Mode

Plot for Channel 42



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
109.620	32.97	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2551.450	47.44	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4617.804	49.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5732.987	50.72	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10985.437	47.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14768.434	48.10	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

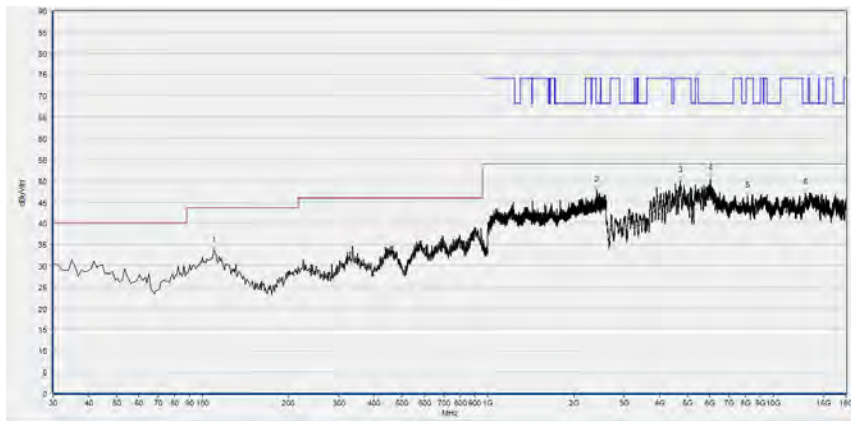
(Antenna Horizontal, 30MHz to 18GHz)



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
112.533	33.03	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2416.472	46.91	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4731.786	50.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5825.405	50.70	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9087.778	48.16	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13468.414	48.40	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

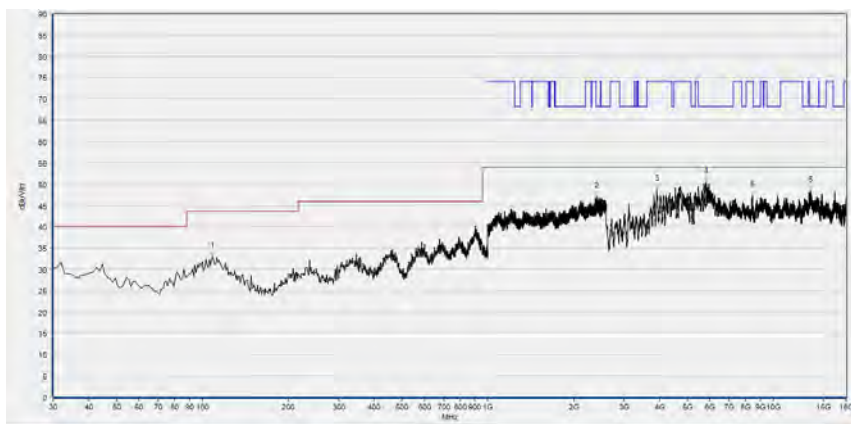
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 58



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
109.620	33.49	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2411.137	47.79	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4734.867	49.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6037.968	50.44	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8148.190	46.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12987.838	47.15	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

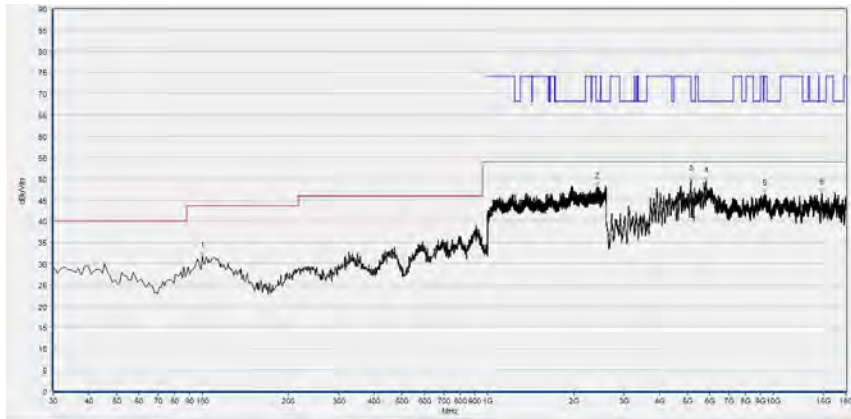
(Antenna Horizontal, 30MHz to 18GHz)



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
108.649	32.98	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2413.271	47.12	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
3909.262	48.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5810.002	50.40	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8450.090	47.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13502.300	48.46	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

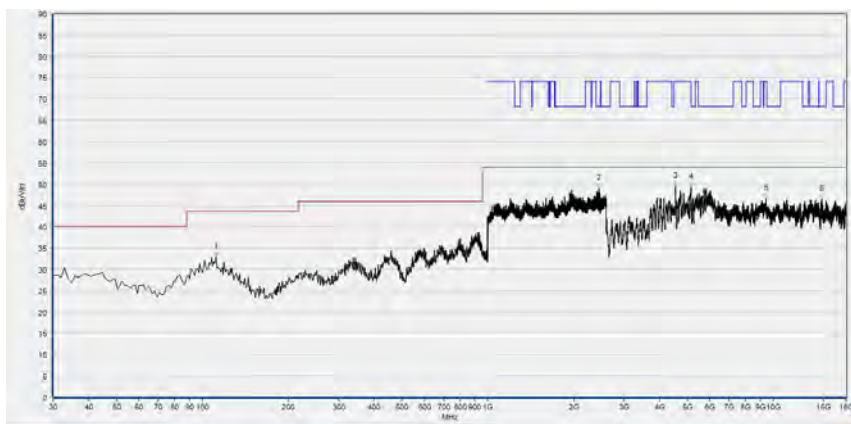
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 122



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	31.84	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2418.667	48.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5147.160	49.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5818.600	49.46	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9326.720	46.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14784.480	46.51	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

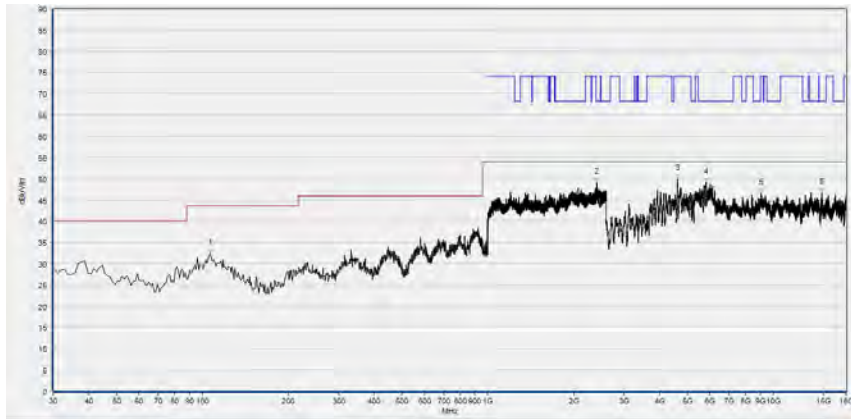
(Antenna Horizontal, 30MHz to 18GHz)



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
111.480	32.83	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2446.400	48.97	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4549.640	49.48	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5150.240	49.36	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9412.960	46.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14778.320	46.39	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

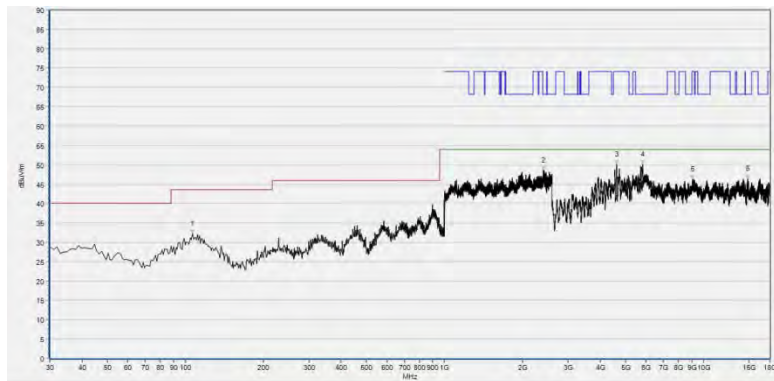
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 155



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	32.31	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2409.600	49.12	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4623.560	50.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5812.440	49.11	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9086.480	46.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14759.840	46.70	N/A	N/A	68.23	N/A	N/A	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	32.11	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2410.667	48.55	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4623.560	50.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5827.840	50.09	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9064.920	46.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14756.760	46.40	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

————— END OF REPORT —————