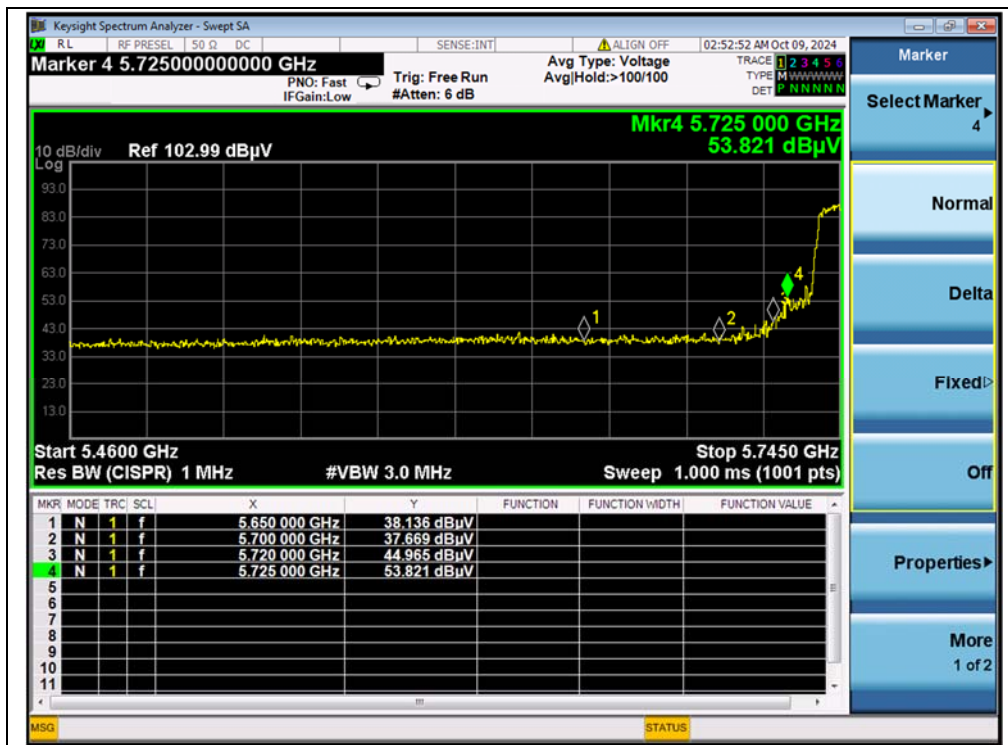
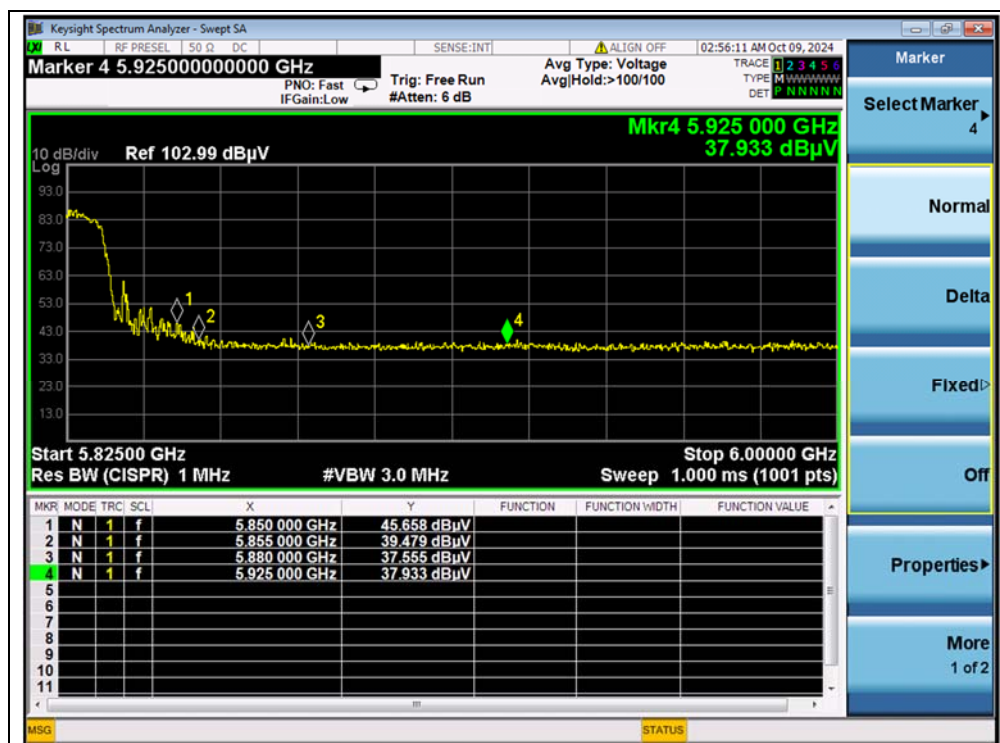




(PEAK, Channel 149, 802.11a)

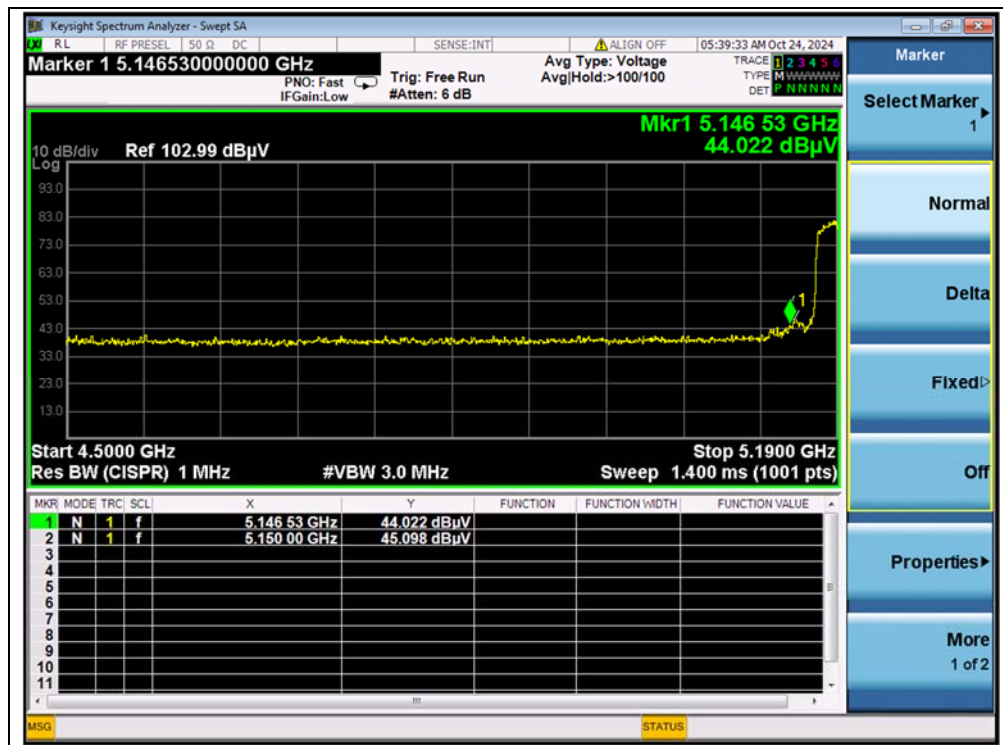


(PEAK, Channel 165, 802.11a)

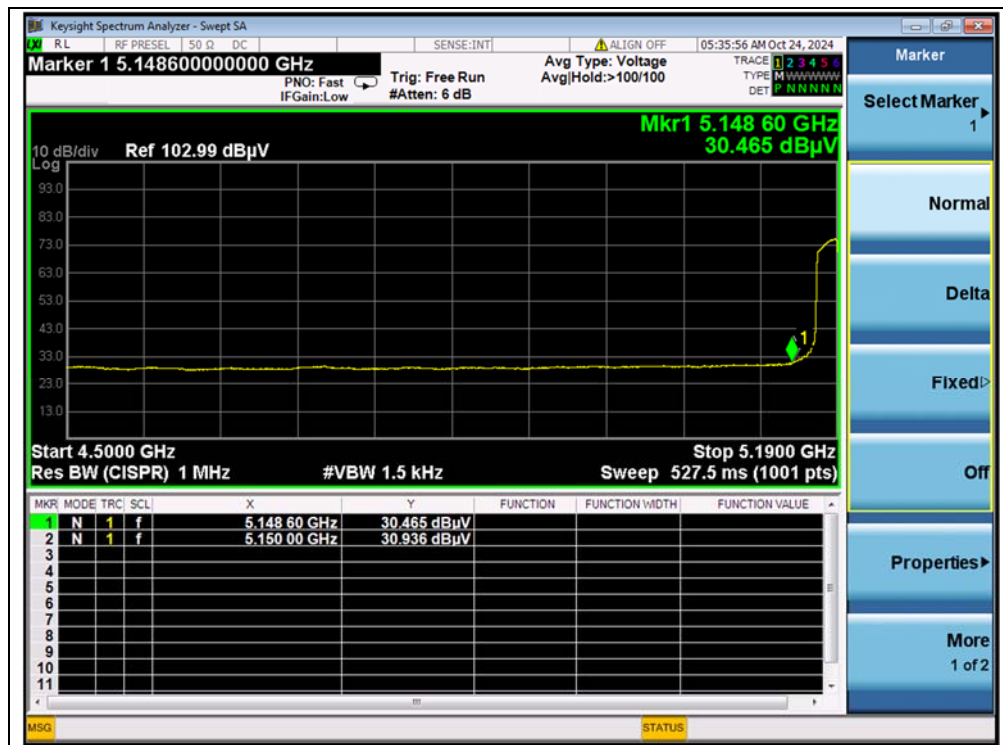


802.11n (HT40) Mode

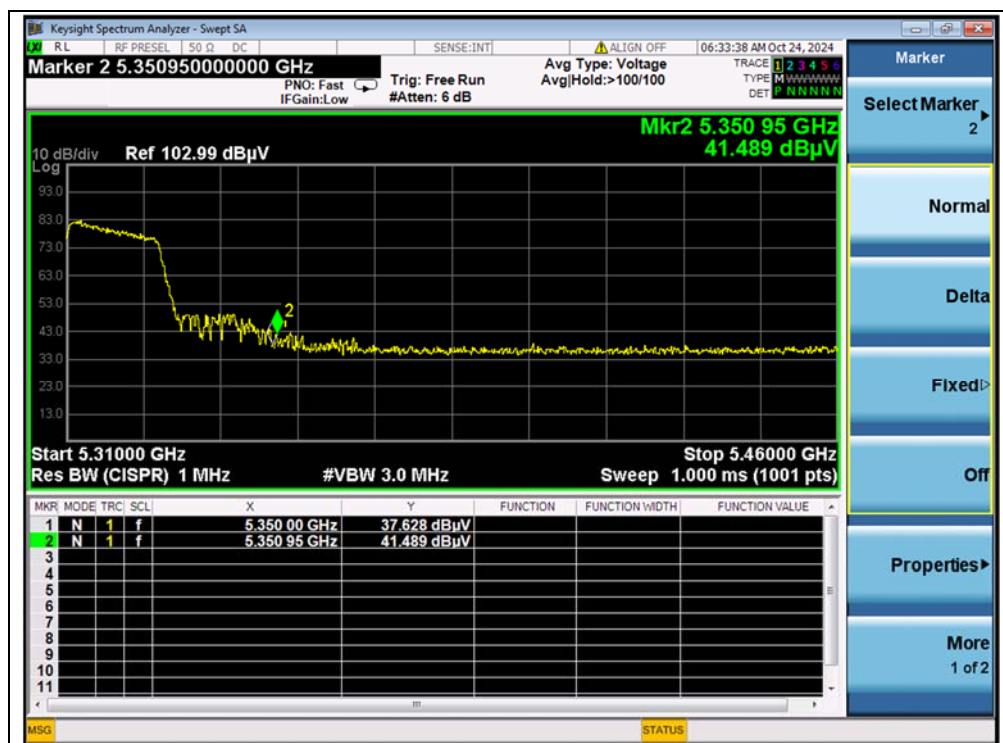
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
38	5150.00	PK	45.10	-16.90	33.10	61.30	74	PASS
38	5150.00	AV	30.94	-16.90	33.10	47.14	54	PASS
62	5350.95	PK	41.49	-15.40	33.00	59.09	74	PASS
62	5350.95	AV	29.95	-15.40	33.00	47.55	54	PASS
151	5725.00	PK	55.92	-16.00	33.60	73.52	122.23	PASS
159	5850.00	PK	41.83	-16.00	33.60	59.43	122.23	PASS



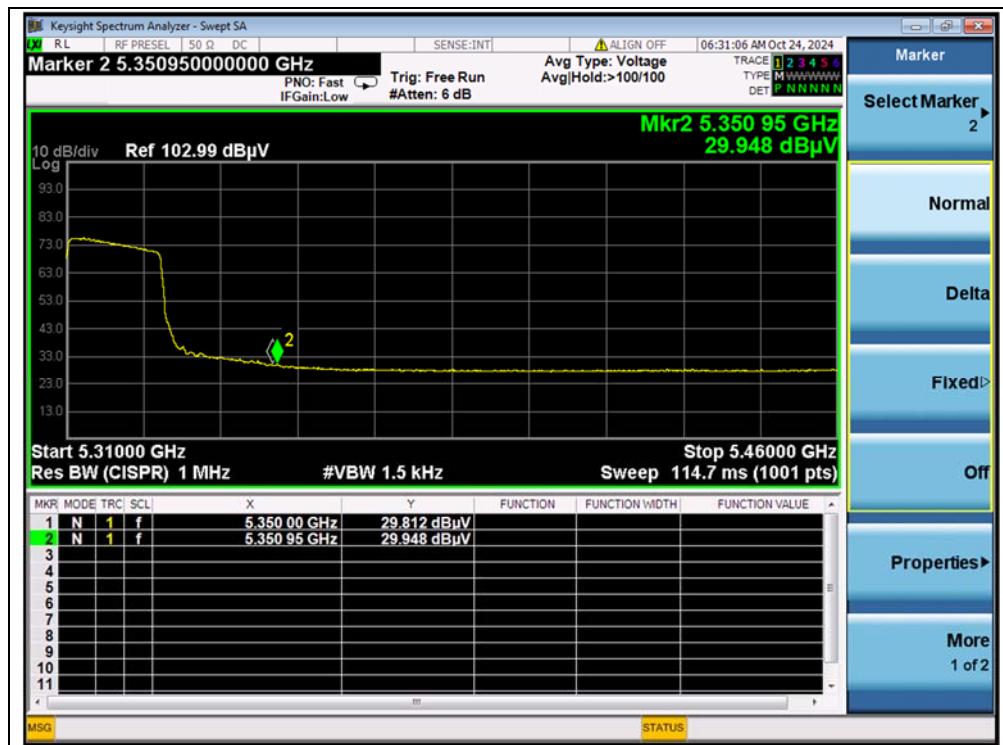
(PEAK, Channel 38, 802.11n (HT40))



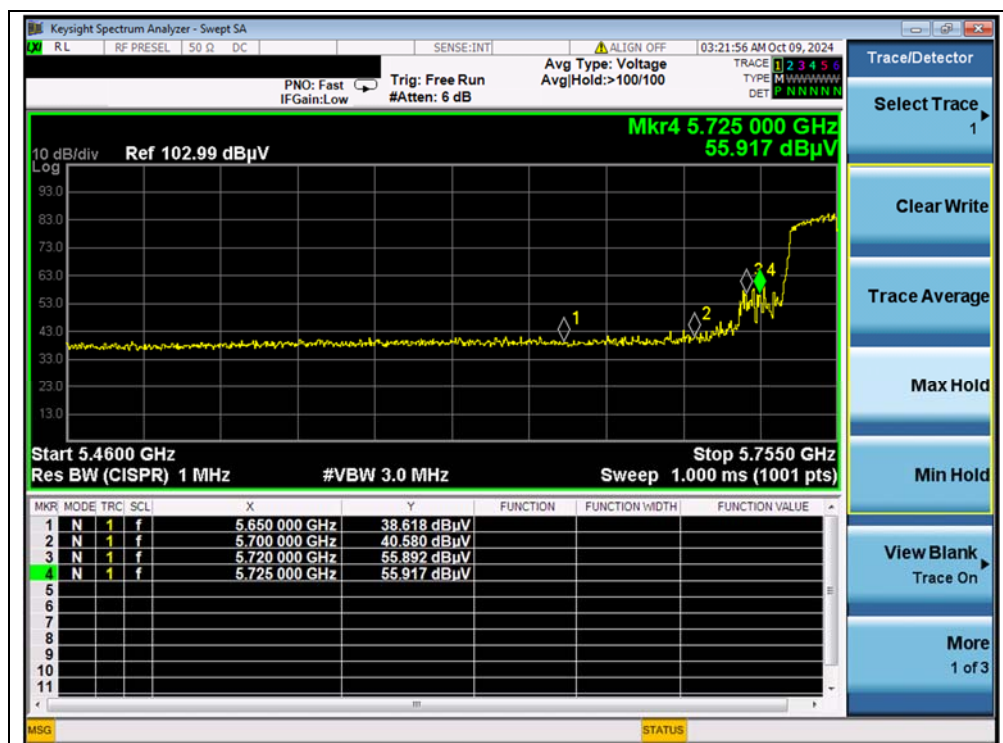
(AVERAGE, Channel 38, 802.11n (HT40))



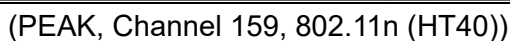
(PEAK, Channel 62, 802.11n (HT40))



(AVERAGE, Channel 62, 802.11n (HT40))

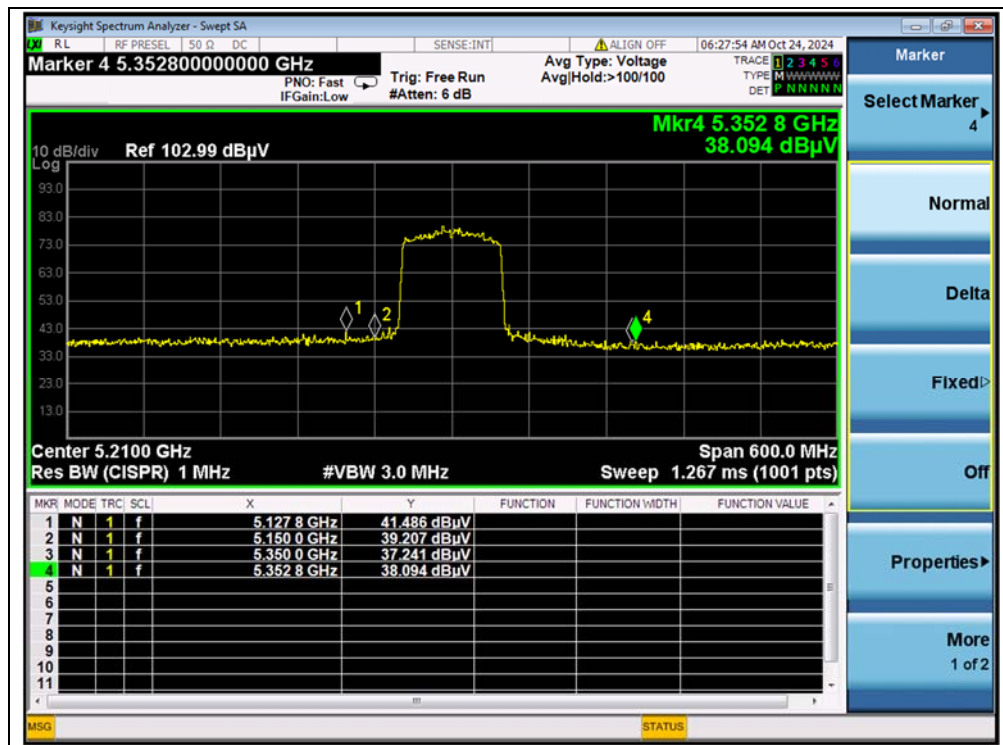


(PEAK, Channel 151, 802.11n (HT40))

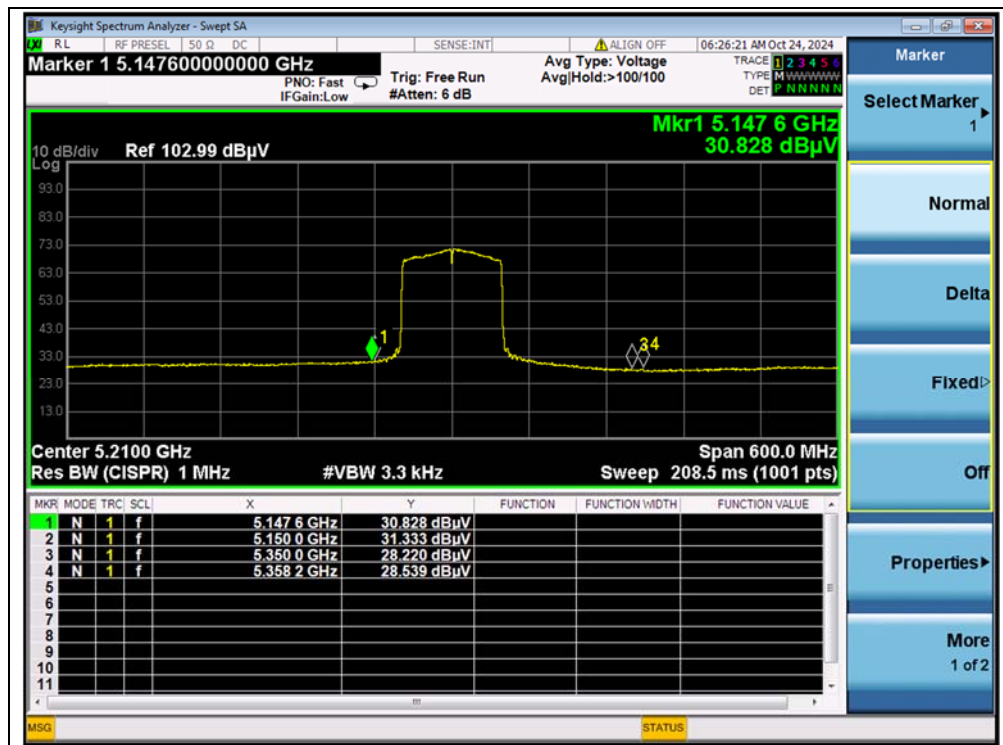


**802.11ac (VHT80) Mode**

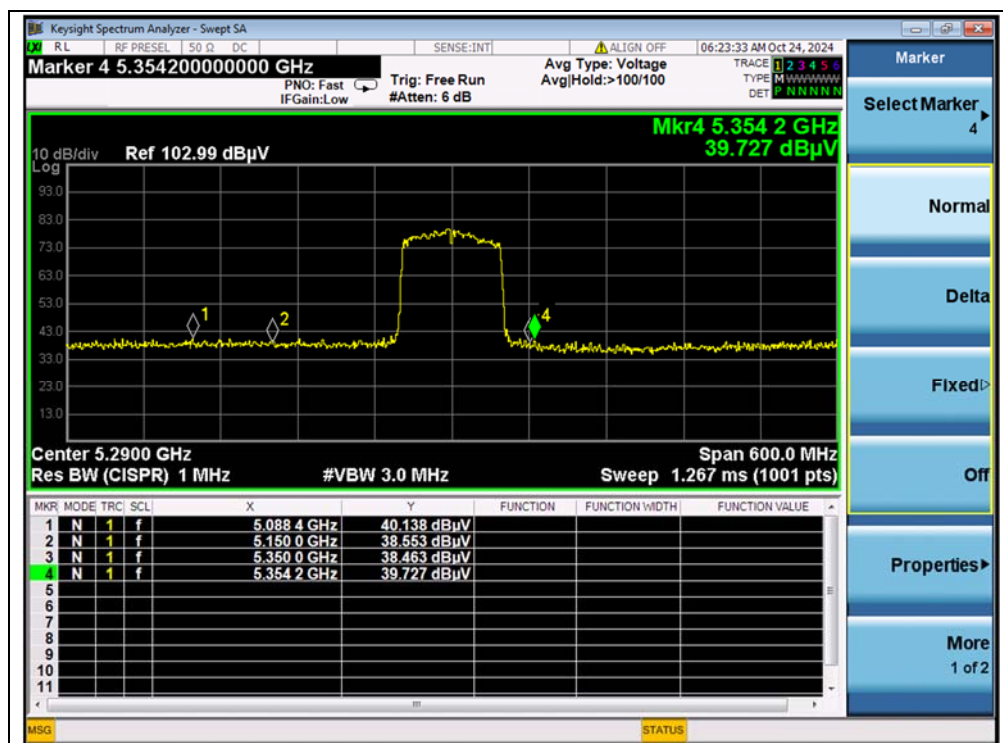
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
42	5127.80	PK	41.49	-16.90	33.10	57.69	74	PASS
42	5150.00	AV	31.33	-16.90	33.10	47.53	54	PASS
58	5088.40	PK	40.14	-15.40	33.00	57.74	74	PASS
58	5350.00	AV	31.04	-15.40	33.00	48.64	54	PASS
155	5725.00	PK	49.15	-16.00	33.60	66.75	110.83	PASS
155	5850.00	PK	45.41	-16.00	33.60	63.01	122.23	PASS



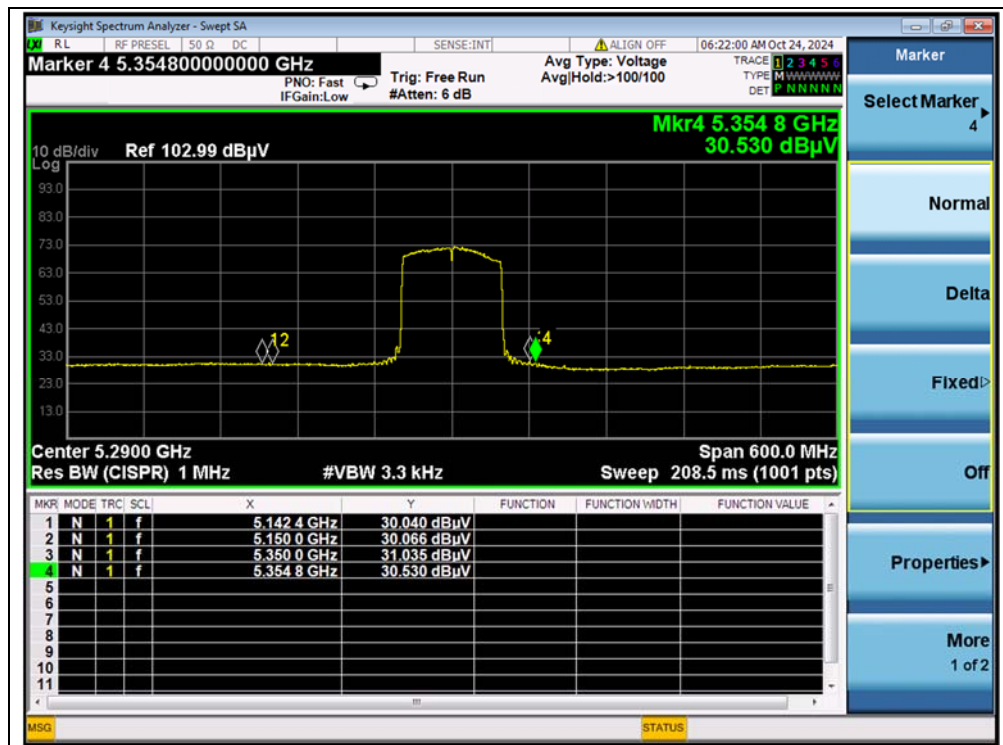
(PEAK, Channel 42, 802.11ac (VHT80))



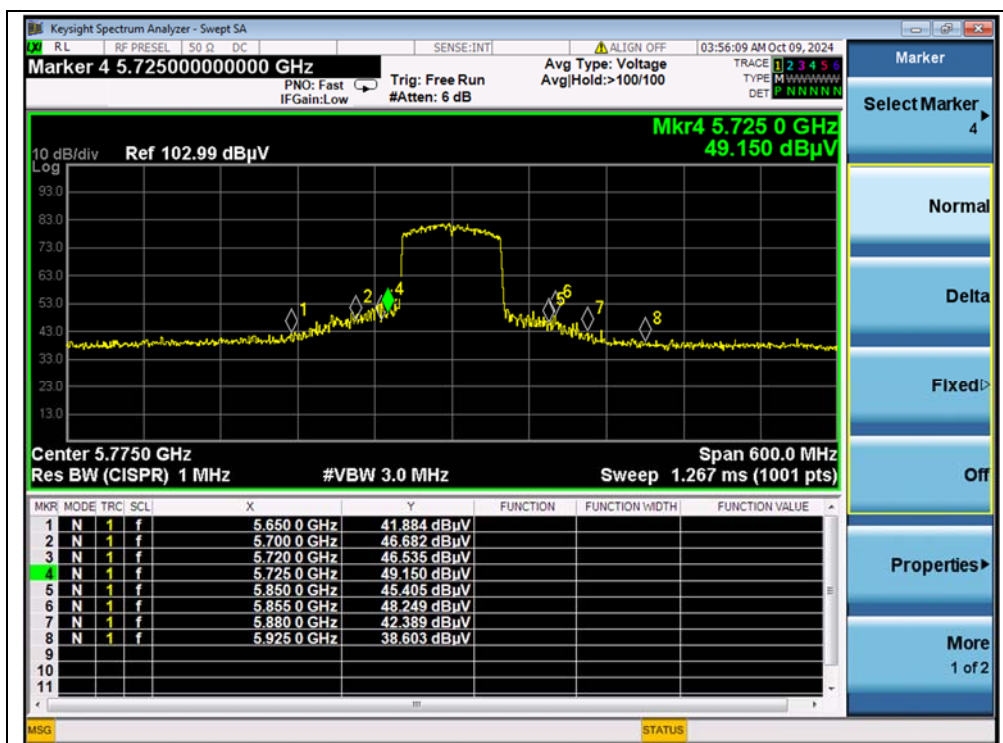
(AVERAGE, Channel 42, 802.11ac (VHT80))



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



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



(PEAK, Channel 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 test condition was recorded in this test report.

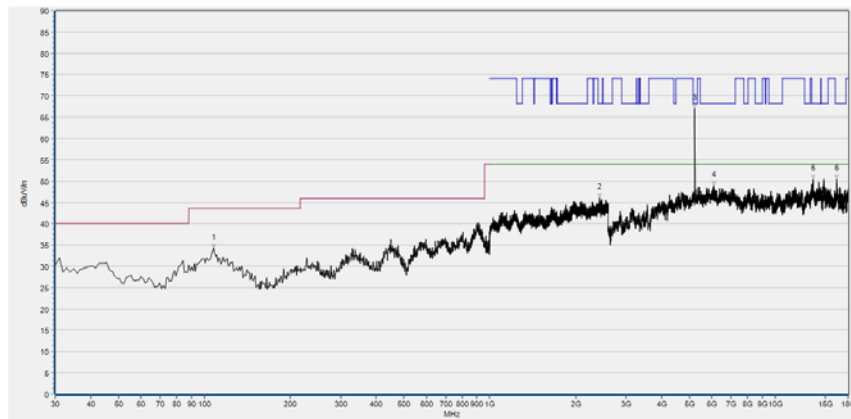
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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

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

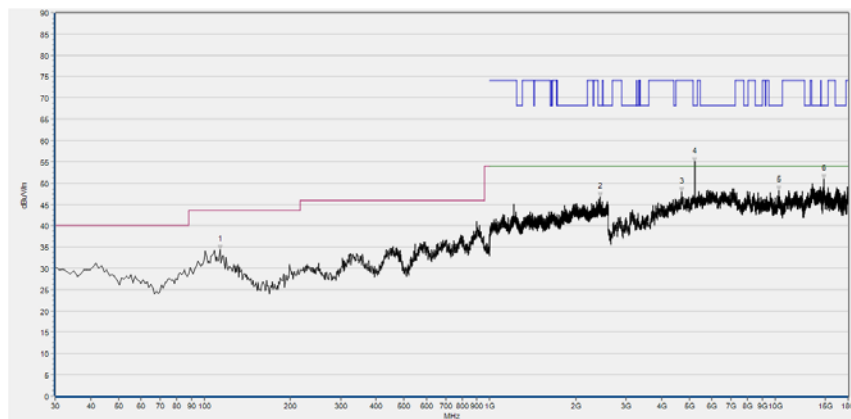
**802.11a Mode**

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
107.600	34.14	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2416.533	46.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5221.080	67.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
6098.880	49.01	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13592.520	50.38	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
16416.880	50.48	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

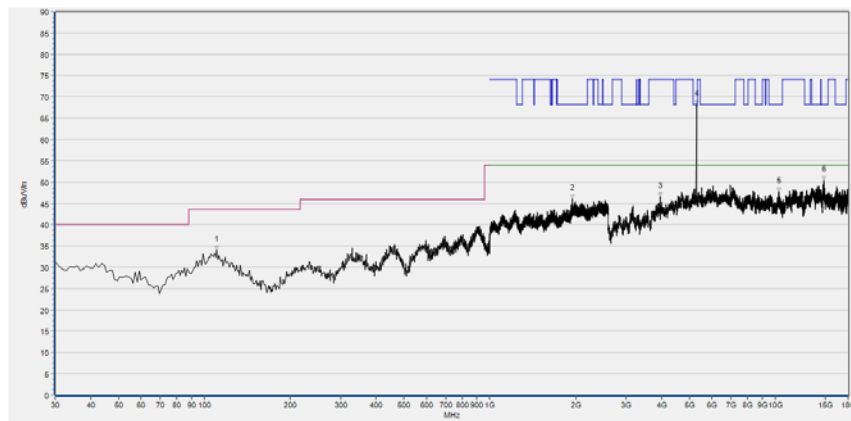


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.420	34.30	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2429.867	46.68	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4697.480	47.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5211.840	54.98	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10312.320	48.22	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
14769.080	50.95	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

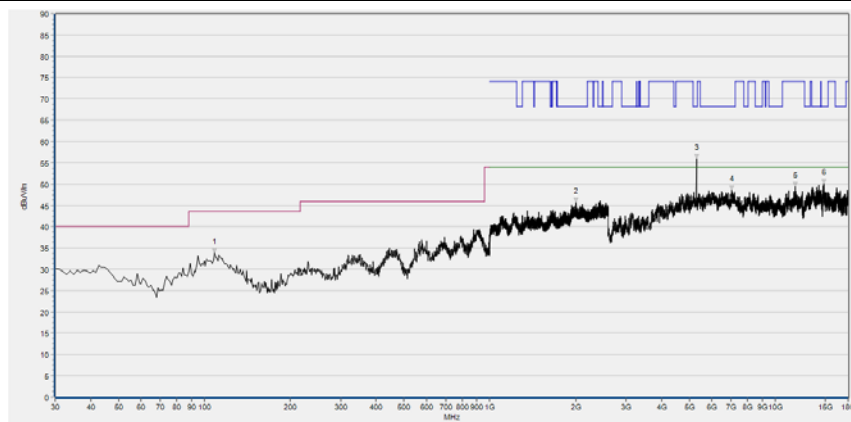


Plot for Channel 60



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
110.510	34.01	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1947.733	46.06	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
3961.360	46.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5301.160	68.21	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10318.480	47.79	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
14766.000	50.47	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

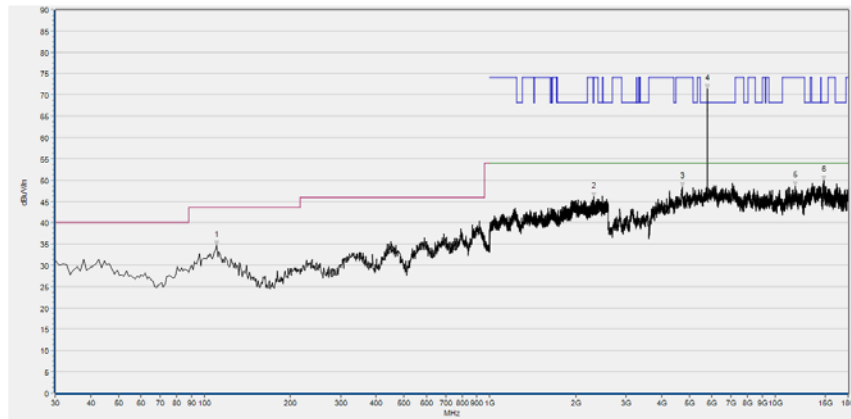
(Antenna Horizontal, 30MHz to 18GHz)



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
108.570	33.78	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2007.467	45.75	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5291.920	56.01	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
7053.680	48.63	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11747.600	49.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14759.840	50.19	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
110.510	34.76	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2310.400	46.16	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4719.040	48.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5784.720	71.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11766.080	48.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14812.200	49.96	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
113.420	33.12	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2395.733	46.07	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
3163.640	45.23	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5775.480	56.98	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8408.880	47.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13475.480	49.57	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT