

4.4.8 Test Results (Conducted Measurement)

Radiated versus Conducted Measurement	
☒ Conducted measurement	☐ Radiated measurement
<u>For Radiated measurement:</u> The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation) <u>For Conducted measurement:</u> The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).	

Conducted Measurement Factor
a. The max antenna gain were be used for conducted measurement. b. For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands. c. For the band edge the gain for the specific band may have been used. d. In restricted bands below 1000 MHz, add upper bound on ground plane reflection: For $f = 30 - 1000$ MHz, add 4.7 dB. Note: The conducted emission test was considered some factor to compute test result.

For testing, we select the highest gain on each frequency band for calculation and testing
The detail information as below:

[5725~5850MHz:](#)

Transmitter Circuit	Brand	Model	Ant. Type	5GHz Gain with cable loss (dBi)	5GHz Cable Loss (dB)	Connector Type	Cable Length (mm)
Chain (0)+(1)	WNC	81.EBJ15.005	PIFA	5.725~5.85GHz: 4.76	5.725~5.85GHz: 1.79	IPEX	300

[5150~5350MHz, 5470~5725MHz:](#)

Transmitter Circuit	Brand	Model	Ant. Type	5GHz Gain with cable loss (dBi)	5GHz Cable Loss (dB)	Connector Type	Cable Length (mm)
Chain (0)+(1)	WNC	81.ED415.001	PIFA	5.15~5.35GHz: 5.56	5.15~5.35GHz: 1.29	IPEX	300
				5.47~5.725GHz: 5.34	5.47~5.725GHz: 1.36		

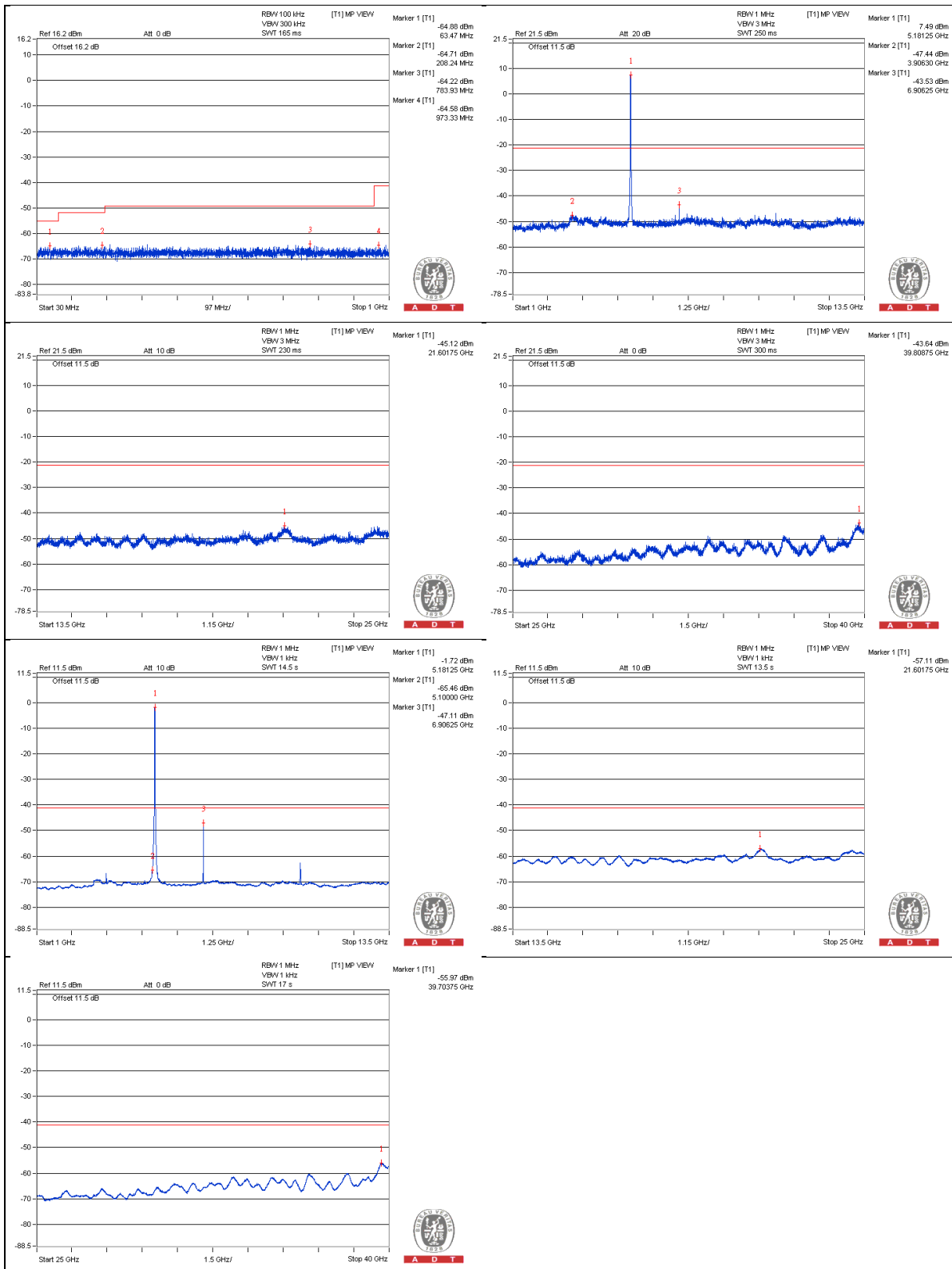
Above 1GHz Data
802.11a - Channel 36

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3446.875 PK	51.58	74	-22.42	-49.24	5.56	-43.68
2	3453.125 AV	33.97	54	-20.03	-66.85	5.56	-61.29
3	6906.25 PK	57.29	68.2	-10.91	-43.53	5.56	-37.97
4	10362.5 PK	54.11	74	-19.89	-46.71	5.56	-41.15
5	10359.375 AV	38.28	54	-15.72	-62.54	5.56	-56.98
6	15535.5 PK	51.16	74	-22.84	-49.66	5.56	-44.1
7	15532.625 AV	39.51	54	-14.49	-61.31	5.56	-55.75

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.



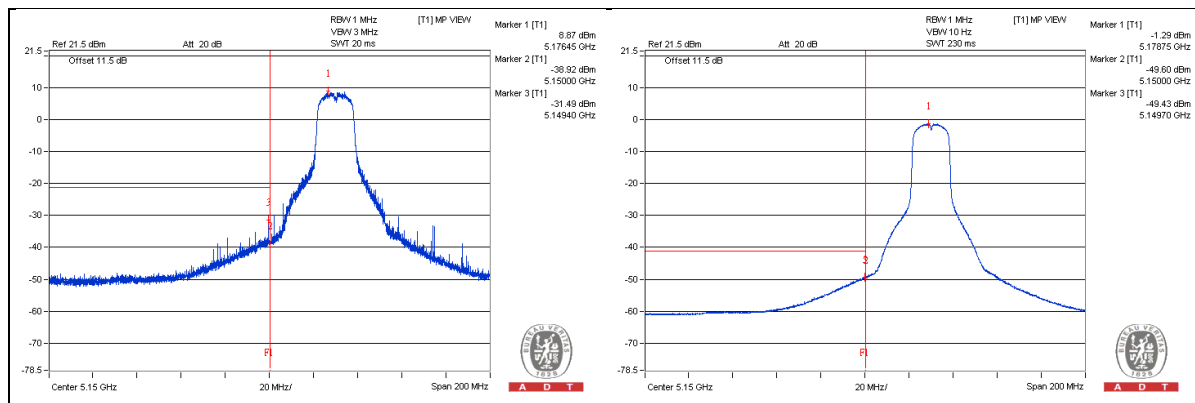
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5149.4 PK	69.33	74	-4.67	-31.49	5.56	-25.93
2	5149.7 AV	51.39	54	-2.61	-49.43	5.56	-43.87

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11a - Channel 40

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3459.375 PK	51.48	74	-22.52	-49.34	5.56	-43.78
2	3465.625 AV	31.59	54	-22.41	-69.23	5.56	-63.67
3	6934.375 PK	55.71	68.2	-12.49	-45.11	5.56	-39.55
4	10400 PK	52.92	74	-21.08	-47.9	5.56	-42.34
5	10403.125 AV	37.71	54	-16.29	-63.11	5.56	-57.55
6	15593 PK	49.96	74	-24.04	-50.86	5.56	-45.3
7	15598.75 AV	39.45	54	-14.55	-61.37	5.56	-55.81

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11a - Channel 48

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3500 PK	50.96	74	-23.04	-49.86	5.56	-44.3
2	3493.75 AV	31.77	54	-22.23	-69.05	5.56	-63.49
3	6987.5 PK	55.7	68.2	-12.5	-45.12	5.56	-39.56
4	10484.375 PK	53.67	74	-20.33	-47.15	5.56	-41.59
5	10481.25 AV	38.65	54	-15.35	-62.17	5.56	-56.61
6	15725.25 PK	50.61	74	-23.39	-50.21	5.56	-44.65
7	15713.75 AV	38.93	54	-15.07	-61.89	5.56	-56.33

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11a - Channel 52

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3506.25 PK	51.4	74	-22.6	-49.42	5.56	-43.86
2	3506.25 AV	32.44	54	-21.56	-68.38	5.56	-62.82
3	7012.5 PK	53.3	68.2	-14.9	-47.52	5.56	-41.96
4	10521.875 PK	53.47	74	-20.53	-47.35	5.56	-41.79
5	10518.75 AV	38.99	54	-15.01	-61.83	5.56	-56.27
6	15782.75 PK	51.42	74	-22.58	-49.4	5.56	-43.84
7	15779.875 AV	39.57	54	-14.43	-61.25	5.56	-55.69

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11a - Channel 60

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3525 PK	52.07	74	-21.93	-48.75	5.56	-43.19
2	3531.25 AV	32.17	54	-21.83	-68.65	5.56	-63.09
3	7068.75 PK	53.78	74	-20.22	-47.04	5.56	-41.48
4	7065.625 AV	43.69	54	-10.31	-57.13	5.56	-51.57
5	10603.125 PK	52.26	74	-21.74	-48.56	5.56	-43
6	10600 AV	39.2	54	-14.8	-61.62	5.56	-56.06
7	15897.75 PK	51.22	74	-22.78	-49.6	5.56	-44.04
8	15900.625 AV	39.71	54	-14.29	-61.11	5.56	-55.55

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11a - Channel 64

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3537.5 PK	52.88	74	-21.12	-47.94	5.56	-42.38
2	3546.875 AV	36.47	54	-17.53	-64.35	5.56	-58.79
3	7093.75 PK	54.14	74	-19.86	-46.68	5.56	-41.12
4	7093.75 AV	44.36	54	-9.64	-56.46	5.56	-50.9
5	10643.75 PK	52.09	74	-21.91	-48.73	5.56	-43.17
6	10637.5 AV	37.56	54	-16.44	-63.26	5.56	-57.7
7	15963.875 PK	51.9	74	-22.1	-48.92	5.56	-43.36
8	15958.125 AV	38.75	54	-15.25	-62.07	5.56	-56.51

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



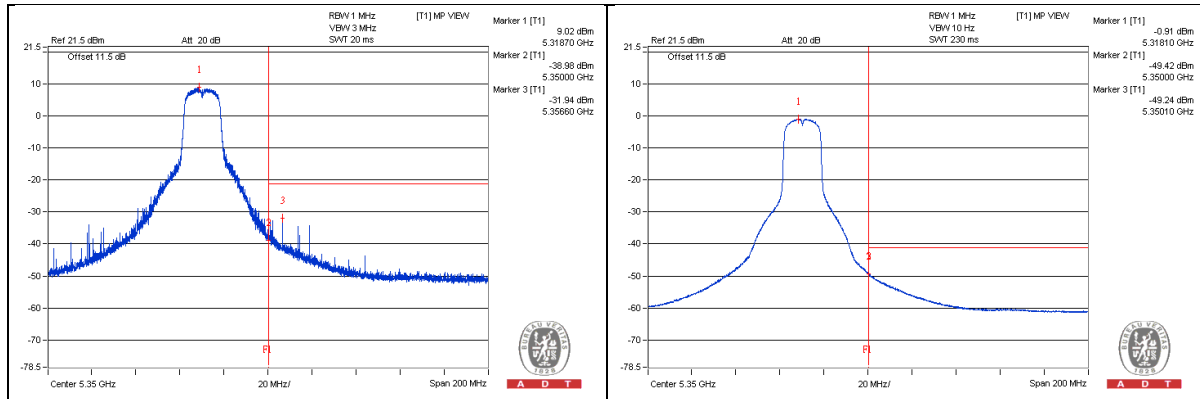
Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5356.6 PK	68.88	74	-5.12	-31.94	5.56	-26.38
2	5350.1 AV	51.58	54	-2.42	-49.24	5.56	-43.68

Note :

Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11a - Channel 100

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3665.625 PK	51.29	74	-22.71	-49.31	5.34	-43.97
2	3665.625 AV	42.46	54	-11.54	-58.14	5.34	-52.8
3	7337.5 PK	52.93	74	-21.07	-47.67	5.34	-42.33
4	7334.375 AV	39.21	54	-14.79	-61.39	5.34	-56.05
5	11003.125 PK	50.08	74	-23.92	-50.52	5.34	-45.18
6	11000 AV	34.38	54	-19.62	-66.22	5.34	-60.88
7	16501.5 PK	50.16	74	-23.84	-50.44	5.34	-45.1
8	16501.5 AV	39.62	54	-14.38	-60.98	5.34	-55.64

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



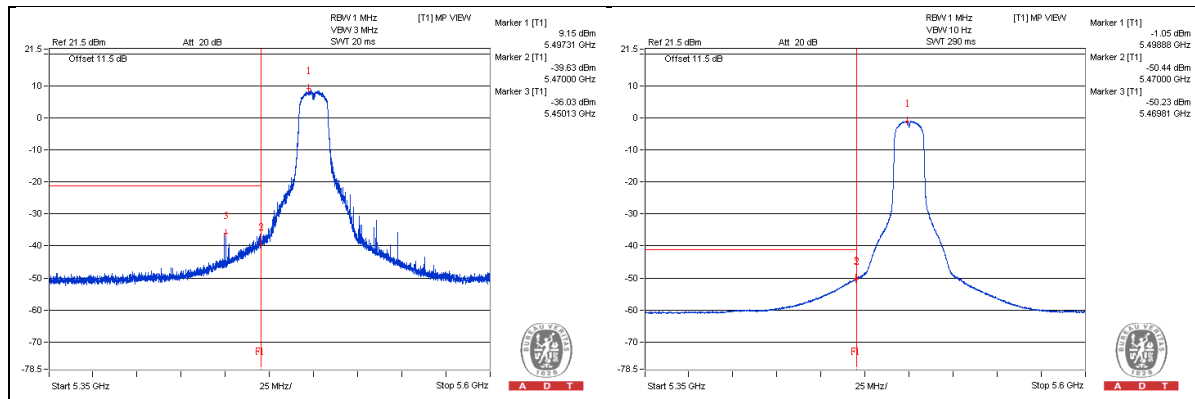
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5450.13 PK	64.57	74	-9.43	-36.03	5.34	-30.69
2	5469.81 AV	50.37	54	-3.63	-50.23	5.34	-44.89

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11a - Channel 120

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3731.25 PK	51.41	74	-22.59	-49.19	5.34	-43.85
2	3731.25 AV	38.86	54	-15.14	-61.74	5.34	-56.4
3	7471.875 PK	52.07	74	-21.93	-48.53	5.34	-43.19
4	7465.625 AV	38.42	54	-15.58	-62.18	5.34	-56.84
5	11206.25 PK	50.84	74	-23.16	-49.76	5.34	-44.42
6	11196.875 AV	32.8	54	-21.2	-67.8	5.34	-62.46
7	16806.25 PK	51.01	74	-22.99	-49.59	5.34	-44.25
8	16806.25 AV	39.04	54	-14.96	-61.56	5.34	-56.22

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11a - Channel 140

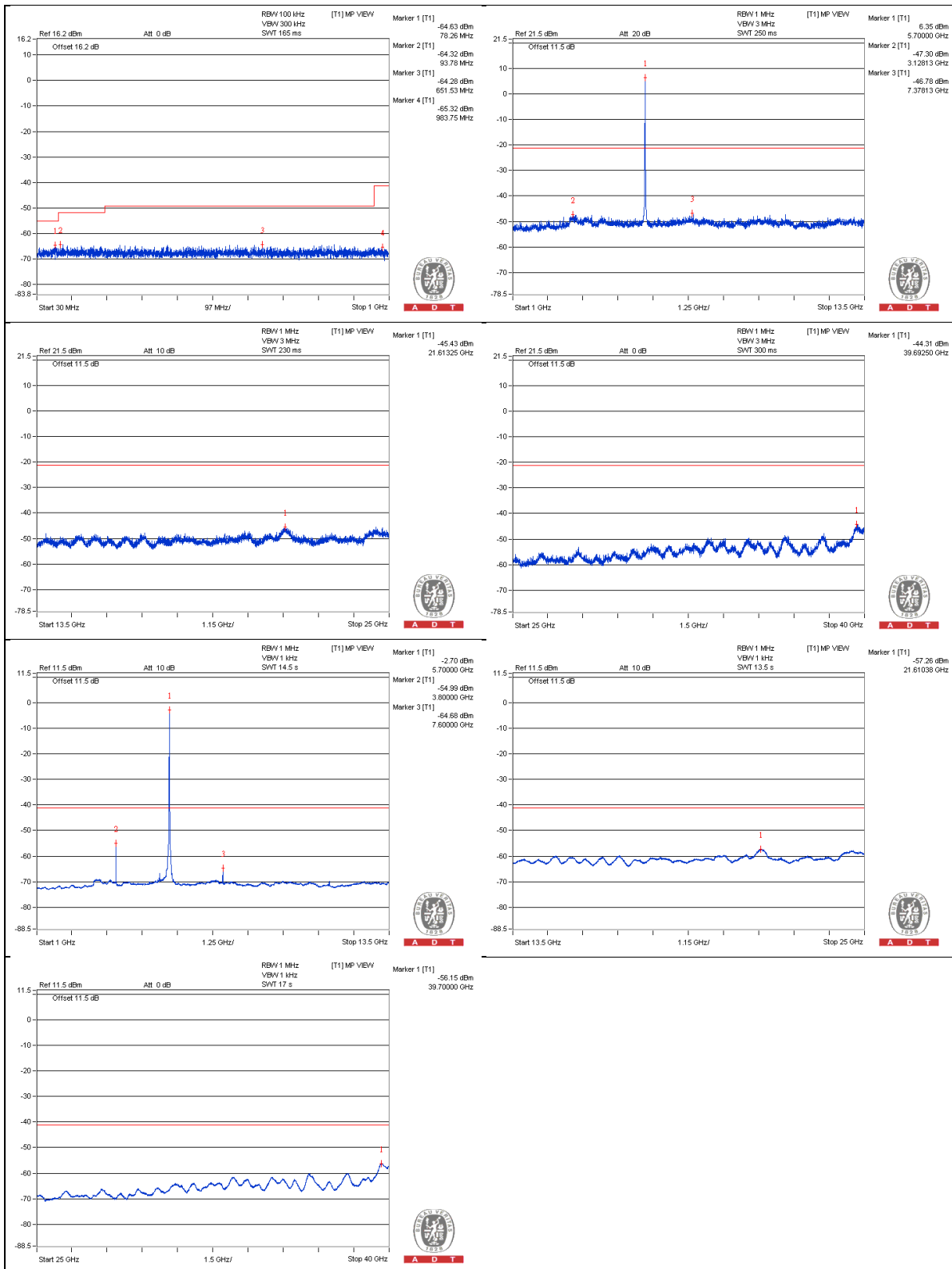
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3800 PK	52.6	74	-21.4	-48	5.34	-42.66
2	3800 AV	44.89	54	-9.11	-55.71	5.34	-50.37
3	7606.25 PK	50.48	74	-23.52	-50.12	5.34	-44.78
4	7600 AV	35.63	54	-18.37	-64.97	5.34	-59.63
5	11400 PK	49.87	74	-24.13	-50.73	5.34	-45.39
6	11400 AV	30.98	54	-23.02	-69.62	5.34	-64.28
7	17090.875 PK	50.58	74	-23.42	-50.02	5.34	-44.68
8	17096.625 AV	39.03	54	-14.97	-61.57	5.34	-56.23

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



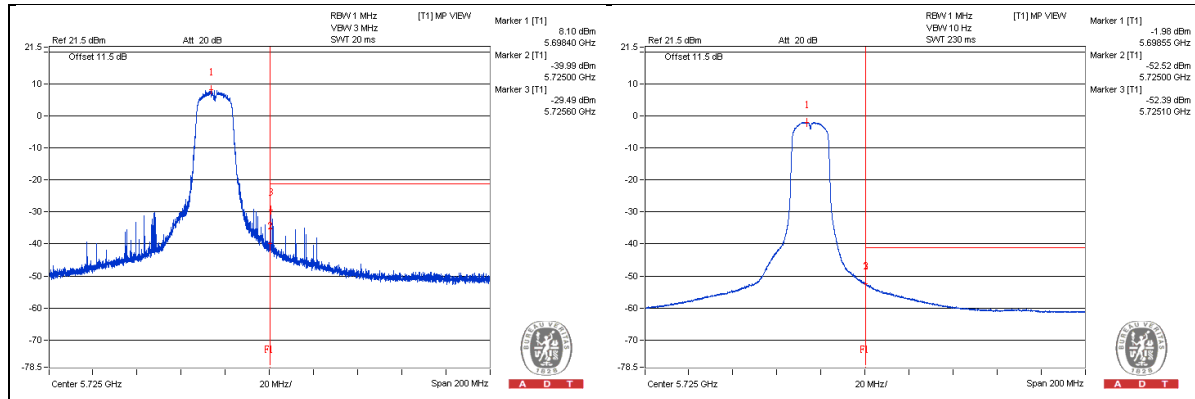
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5725.6 PK	71.11	74	-2.89	-29.49	5.34	-24.15
2	5725.1 AV	48.21	54	-5.79	-52.39	5.34	-47.05

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11a - Channel 144

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3812.5 PK	50.99	74	-23.01	-49.61	5.34	-44.27
2	3812.5 AV	39.43	54	-14.57	-61.17	5.34	-55.83
3	7621.875 PK	50.66	74	-23.34	-49.94	5.34	-44.6
4	7628.125 AV	37.04	54	-16.96	-63.56	5.34	-58.22
5	11431.25 PK	49.69	74	-24.31	-50.91	5.34	-45.57
6	11440.625 AV	30.92	54	-23.08	-69.68	5.34	-64.34
7	17159.875 PK	49.33	74	-24.67	-51.27	5.34	-45.93
8	17151.25 AV	38.24	54	-15.76	-62.36	5.34	-57.02

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



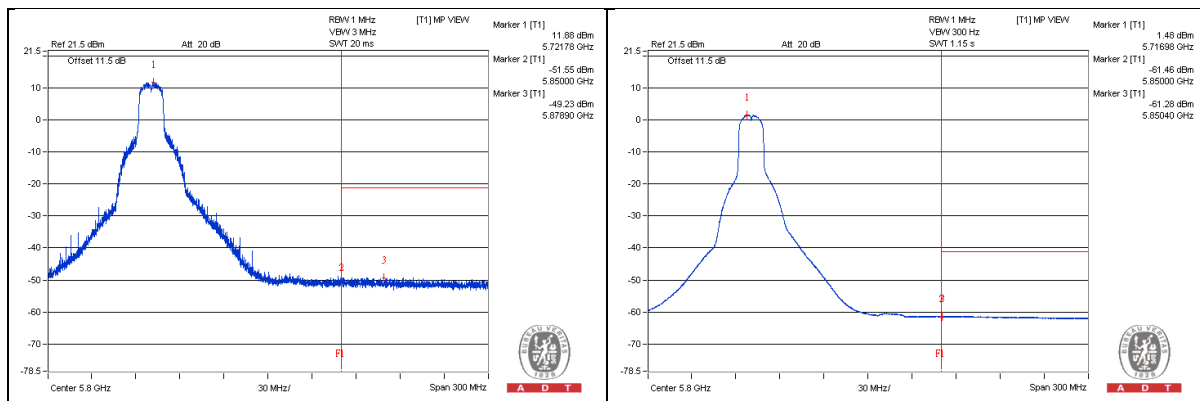
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5878.9 PK	51.37	74	-22.63	-49.23	5.34	-43.89
2	5850.4 AV	39.32	54	-14.68	-61.28	5.34	-55.94

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11a - Channel 149

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3828.125 PK	51.9	74	-22.1	-48.12	4.76	-43.36
2	3828.125 AV	46.2	54	-7.8	-53.82	4.76	-49.06
3	7665.625 PK	51.2	74	-22.8	-48.82	4.76	-44.06
4	7659.375 AV	35.01	54	-18.99	-65.01	4.76	-60.25
5	11490.625 PK	49.81	74	-24.19	-50.21	4.76	-45.45
6	11490.625 AV	31.65	54	-22.35	-68.37	4.76	-63.61

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



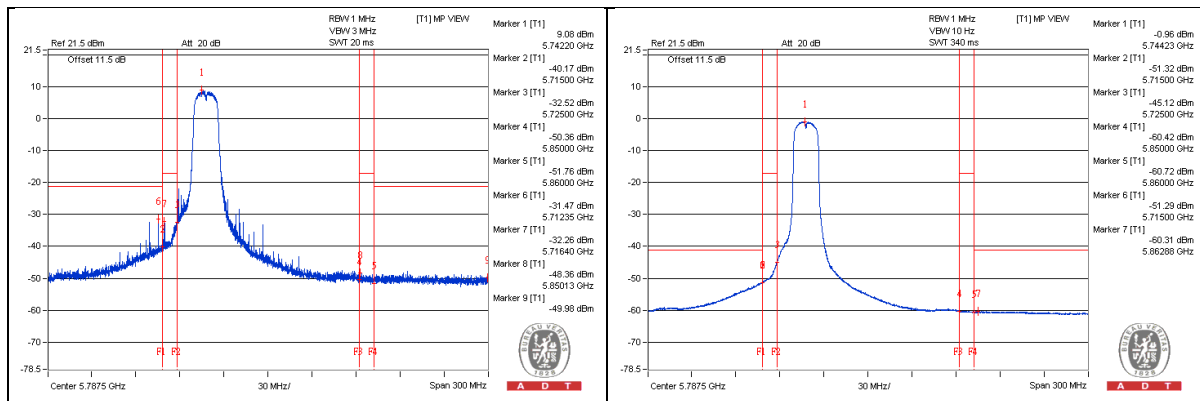
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5712.35 PK	68.55	74	-5.45	-31.47	4.76	-26.71
2	5715 AV	48.73	54	-5.27	-51.29	4.76	-46.53
3	5716.4 PK	67.76	78.2	-10.44	-32.26	4.76	-27.5
4	5850.13 PK	51.66	78.2	-26.54	-48.36	4.76	-43.6
5	5937.5 PK	50.04	74	-23.96	-49.98	4.76	-45.22
6	5862.88 AV	39.71	54	-14.29	-60.31	4.76	-55.55

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11a - Channel 157

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3862.5 PK	50.48	74	-23.52	-49.54	4.76	-44.78
2	3856.25 AV	38.01	54	-15.99	-62.01	4.76	-57.25
3	7712.5 PK	51.41	74	-22.59	-48.61	4.76	-43.85
4	7712.5 AV	35.87	54	-18.13	-64.15	4.76	-59.39
5	11571.875 PK	49.22	74	-24.78	-50.8	4.76	-46.04
6	11571.875 AV	30.9	54	-23.1	-69.12	4.76	-64.36

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11a - Channel 165

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3884.375 PK	51.92	74	-22.08	-48.1	4.76	-43.34
2	3881.25 AV	44.38	54	-9.62	-55.64	4.76	-50.88
3	11643.75 PK	49.01	74	-24.99	-51.01	4.76	-46.25
4	11650 AV	31.15	54	-22.85	-68.87	4.76	-64.11

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



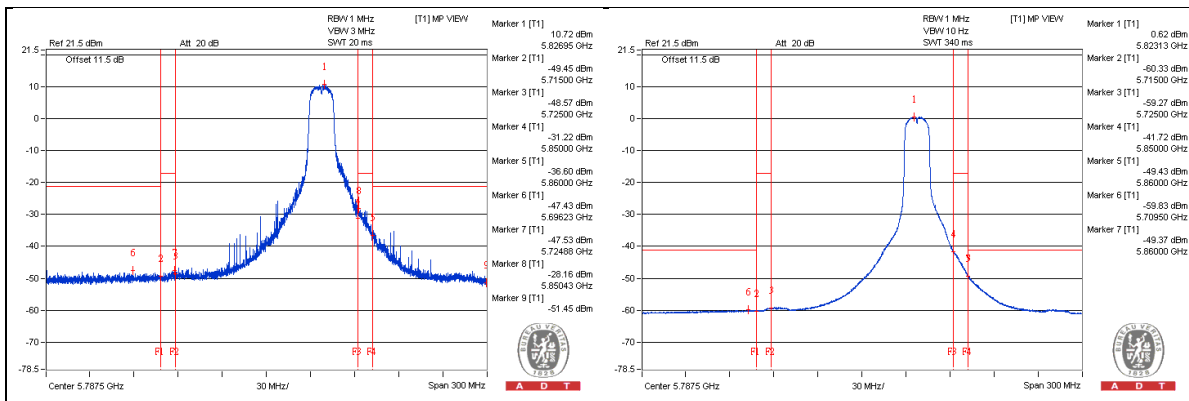
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5696.23 PK	52.59	74	-21.41	-47.43	4.76	-42.67
2	5709.5 AV	40.19	54	-13.81	-59.83	4.76	-55.07
3	5724.88 PK	52.49	78.2	-25.71	-47.53	4.76	-42.77
4	5850.43 PK	71.86	78.2	-6.34	-28.16	4.76	-23.4
5	5937.5 PK	48.57	74	-25.43	-51.45	4.76	-46.69
6	5860 AV	50.65	54	-3.35	-49.37	4.76	-44.61

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT20) - Channel 36

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3450 PK	51.78	74	-22.22	-49.04	5.56	-43.48
2	3453.125 AV	34.39	54	-19.61	-66.43	5.56	-60.87
3	6906.25 PK	56.23	68.2	-11.97	-44.59	5.56	-39.03
4	10362.5 PK	52.67	74	-21.33	-48.15	5.56	-42.59
5	10362.5 AV	37.75	54	-16.25	-63.07	5.56	-57.51
6	15541.25 PK	50.83	74	-23.17	-49.99	5.56	-44.43
7	15532.625 AV	39.34	54	-14.66	-61.48	5.56	-55.92

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



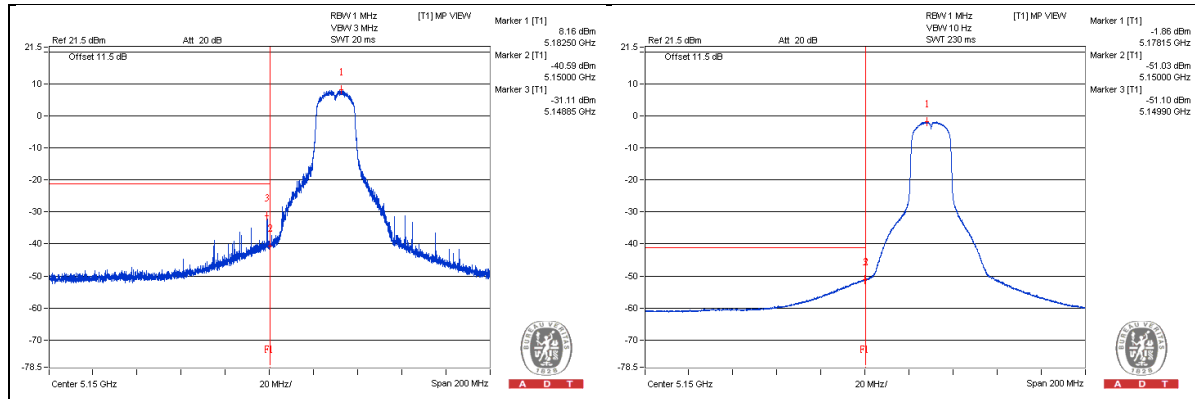
Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5148.85 PK	69.71	74	-4.29	-31.11	5.56	-25.55
2	5149.9 AV	49.81	54	-4.19	-51.01	5.56	-45.45

Note :

Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT20) - Channel 40

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3471.875 PK	51.71	74	-22.29	-49.11	5.56	-43.55
2	3465.625 AV	32.14	54	-21.86	-68.68	5.56	-63.12
3	6934.375 PK	55.81	68.2	-12.39	-45.01	5.56	-39.45
4	10409.375 PK	52.41	74	-21.59	-48.41	5.56	-42.85
5	10400 AV	37.19	54	-16.81	-63.63	5.56	-58.07
6	15593 PK	51.69	74	-22.31	-49.13	5.56	-43.57
7	15598.75 AV	39.46	54	-14.54	-61.36	5.56	-55.8

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT20) - Channel 48

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3503.125 PK	51.07	74	-22.93	-49.75	5.56	-44.19
2	3493.75 AV	32.15	54	-21.85	-68.67	5.56	-63.11
3	6987.5 PK	55.41	68.2	-12.79	-45.41	5.56	-39.85
4	10481.25 PK	52.52	74	-21.48	-48.3	5.56	-42.74
5	10481.25 AV	38.09	54	-15.91	-62.73	5.56	-57.17
6	15719.5 PK	50.09	74	-23.91	-50.73	5.56	-45.17
7	15716.625 AV	38.74	54	-15.26	-62.08	5.56	-56.52

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT20) - Channel 52

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3509.375 PK	51.75	74	-22.25	-49.07	5.56	-43.51
2	3506.25 AV	32.66	54	-21.34	-68.16	5.56	-62.6
3	7012.5 PK	54.06	68.2	-14.14	-46.76	5.56	-41.2
4	10528.125 PK	52.29	74	-21.71	-48.53	5.56	-42.97
5	10518.75 AV	38.68	54	-15.32	-62.14	5.56	-56.58
6	15774.125 PK	50.5	74	-23.5	-50.32	5.56	-44.76
7	15782.75 AV	39.53	54	-14.47	-61.29	5.56	-55.73

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT20) - Channel 60

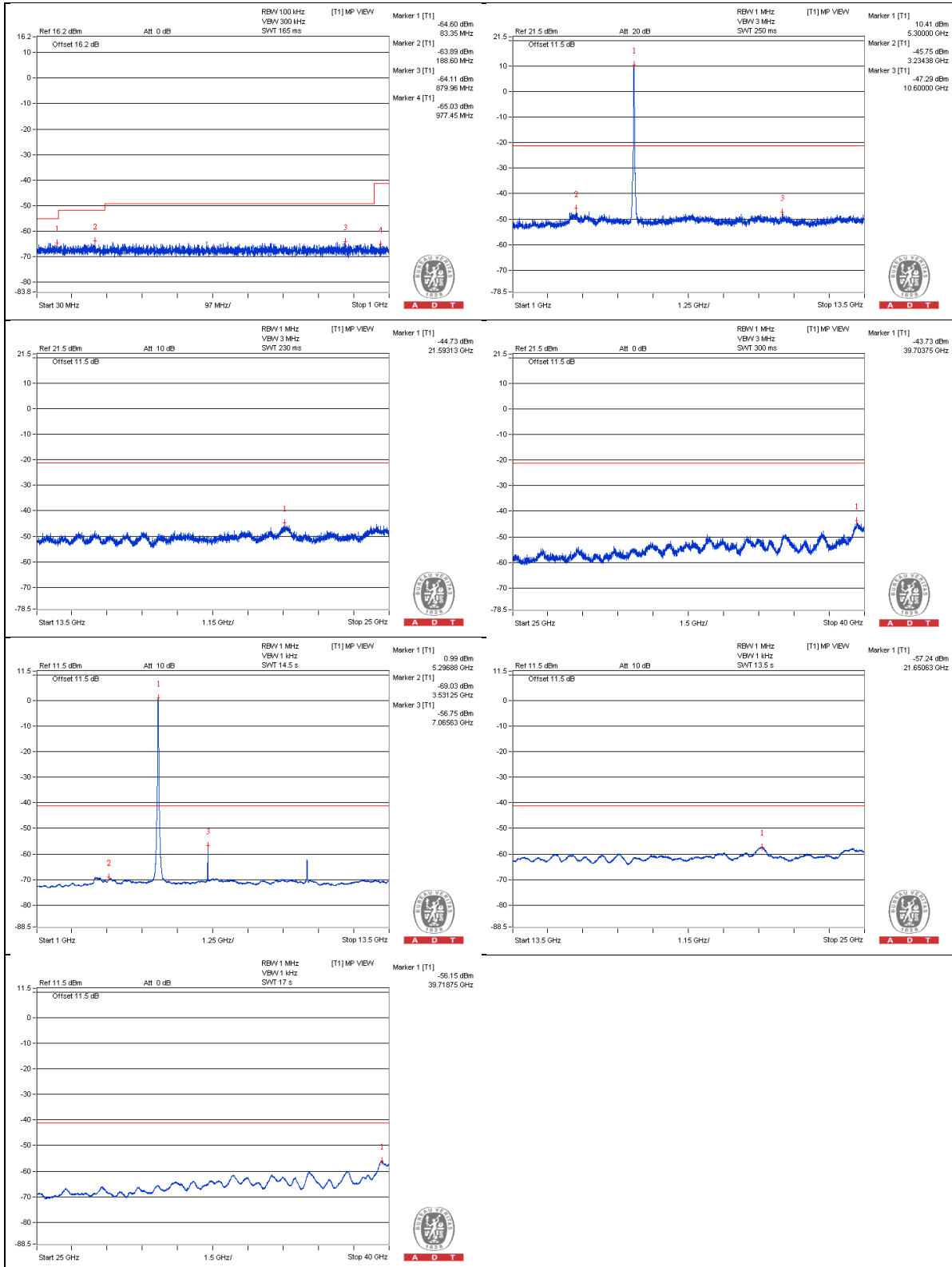
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3528.125 PK	52.37	74	-21.63	-48.45	5.56	-42.89
2	3531.25 AV	31.79	54	-22.21	-69.03	5.56	-63.47
3	7065.625 PK	52.06	68.2	-16.14	-48.76	5.56	-43.2
4	10600 PK	53.53	74	-20.47	-47.29	5.56	-41.73
5	10596.875 AV	38.63	54	-15.37	-62.19	5.56	-56.63
6	15897.75 PK	51.06	74	-22.94	-49.76	5.56	-44.2
7	15894.875 AV	39.66	54	-14.34	-61.16	5.56	-55.6

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT20) - Channel 64

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3546.875 PK	52.79	74	-21.21	-48.03	5.56	-42.47
2	3546.875 AV	35.91	54	-18.09	-64.91	5.56	-59.35
3	10646.875 PK	51.38	74	-22.62	-49.44	5.56	-43.88
4	10640.625 AV	37.32	54	-16.68	-63.5	5.56	-57.94
5	15952.375 PK	49.7	74	-24.3	-51.12	5.56	-45.56
6	15963.875 AV	38.77	54	-15.23	-62.05	5.56	-56.49

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



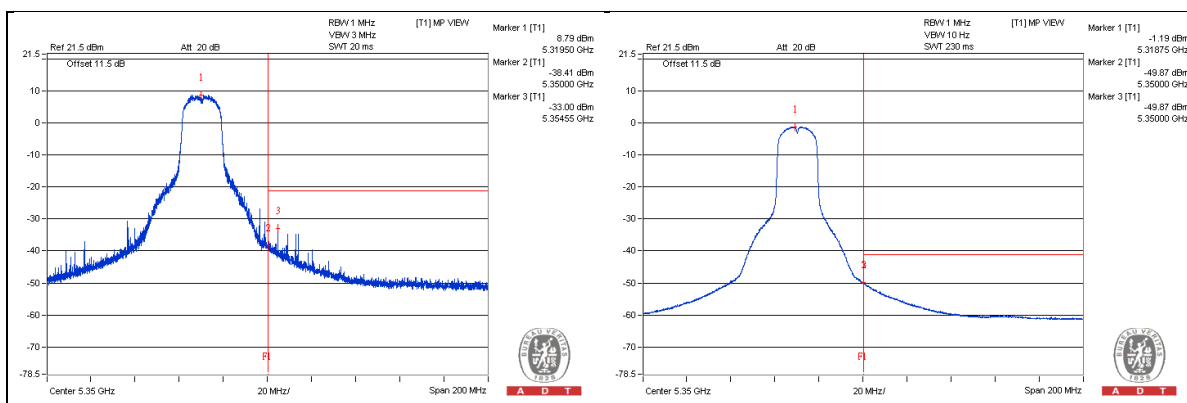
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5354.55 PK	67.82	74	-6.18	-33	5.56	-27.44
2	5350 AV	50.95	54	-3.05	-49.87	5.56	-44.31

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT20) - Channel 100

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3659.375 PK	51.5	74	-22.5	-49.1	5.34	-43.76
2	3665.625 AV	42.22	54	-11.78	-58.38	5.34	-53.04
3	7340.625 PK	52.36	74	-21.64	-48.24	5.34	-42.9
4	7334.375 AV	38.79	54	-15.21	-61.81	5.34	-56.47
5	11003.125 PK	50.64	74	-23.36	-49.96	5.34	-44.62
6	11003.125 AV	35.28	54	-18.72	-65.32	5.34	-59.98
7	16501.5 PK	50.66	74	-23.34	-49.94	5.34	-44.6
8	16492.875 AV	39.47	54	-14.53	-61.13	5.34	-55.79

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



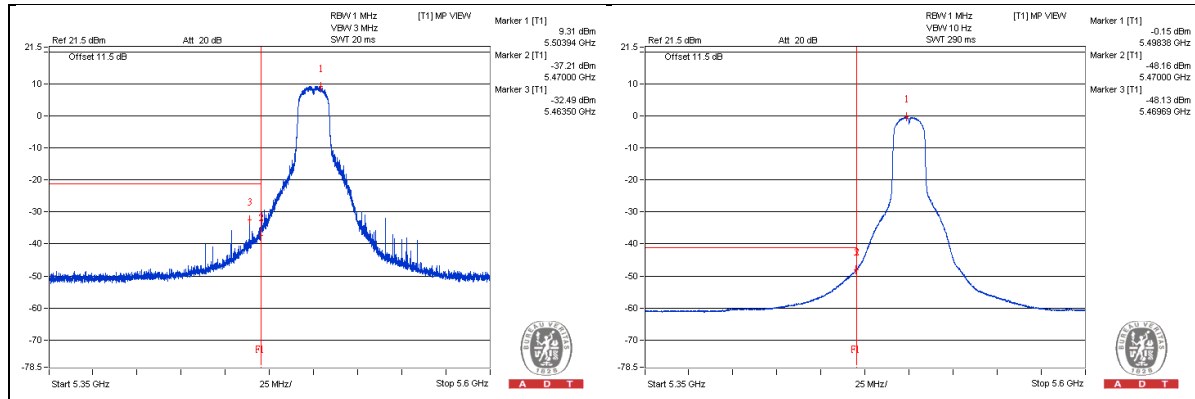
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5463.5 PK	68.11	74	-5.89	-32.49	5.34	-27.15
2	5469.69 AV	52.47	54	-1.53	-48.13	5.34	-42.79

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT20) - Channel 120

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3740.625 PK	52.07	74	-21.93	-48.53	5.34	-43.19
2	3731.25 AV	38.02	54	-15.98	-62.58	5.34	-57.24
3	7459.375 PK	51.54	74	-22.46	-49.06	5.34	-43.72
4	7465.625 AV	38.07	54	-15.93	-62.53	5.34	-57.19
5	11200 PK	49.75	74	-24.25	-50.85	5.34	-45.51
6	11203.125 AV	32.62	54	-21.38	-67.98	5.34	-62.64
7	16809.125 PK	50.15	74	-23.85	-50.45	5.34	-45.11
8	16800.5 AV	39.18	54	-14.82	-61.42	5.34	-56.08

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT20) - Channel 140

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3800 PK	51.78	74	-22.22	-48.82	5.34	-43.48
2	3800 AV	44.33	54	-9.67	-56.27	5.34	-50.93
3	7600 PK	51.59	74	-22.41	-49.01	5.34	-43.67
4	7600 AV	35.72	54	-18.28	-64.88	5.34	-59.54
5	11393.75 PK	50.01	74	-23.99	-50.59	5.34	-45.25
6	11403.125 AV	30.82	54	-23.18	-69.78	5.34	-64.44
7	17096.625 PK	50.53	74	-23.47	-50.07	5.34	-44.73
8	17093.75 AV	39.21	54	-14.79	-61.39	5.34	-56.05

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



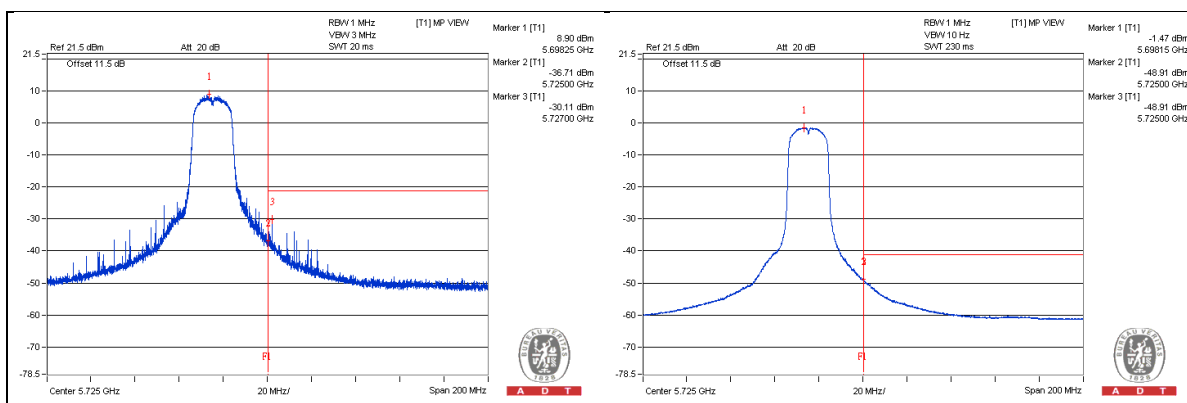
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5727 PK	70.49	74	-3.51	-30.11	5.34	-24.77
2	5725 AV	51.69	54	-2.31	-48.91	5.34	-43.57

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT20) - Channel 144

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3812.5 PK	50.95	74	-23.05	-49.65	5.34	-44.31
2	3812.5 AV	39.1	54	-14.9	-61.5	5.34	-56.16
3	7631.25 PK	50.22	74	-23.78	-50.38	5.34	-45.04
4	7628.125 AV	36.83	54	-17.17	-63.77	5.34	-58.43
5	11443.75 PK	49.74	74	-24.26	-50.86	5.34	-45.52
6	11440.625 AV	31.34	54	-22.66	-69.26	5.34	-63.92
7	17157 PK	50.84	74	-23.16	-49.76	5.34	-44.42
8	17157 AV	38.4	54	-15.6	-62.2	5.34	-56.86

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



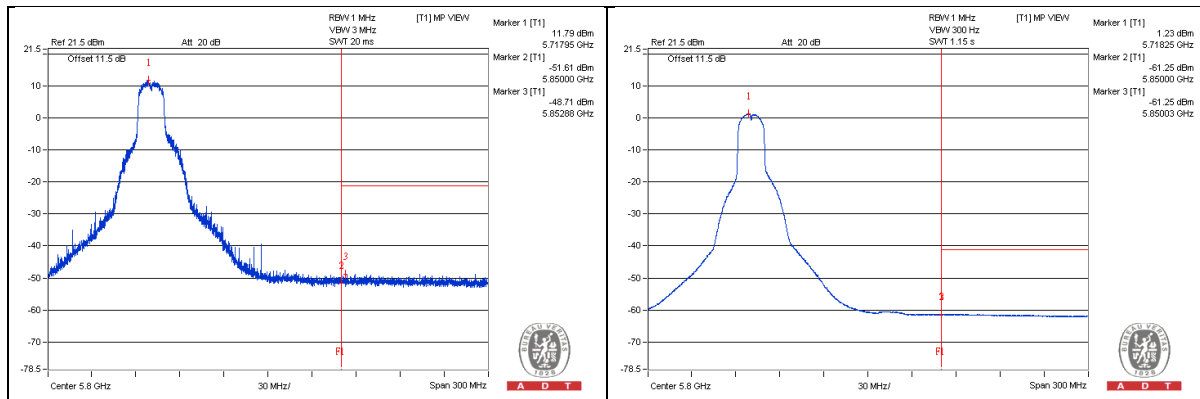
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5852.88 PK	51.89	74	-22.11	-48.71	5.34	-43.37
2	5850.03 AV	39.35	54	-14.65	-61.25	5.34	-55.91

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT20) - Channel 149

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3828.125 PK	50.92	74	-23.08	-49.1	4.76	-44.34
2	3828.125 AV	44.86	54	-9.14	-55.16	4.76	-50.4
3	7668.75 PK	50.06	74	-23.94	-49.96	4.76	-45.2
4	7659.375 AV	34.83	54	-19.17	-65.19	4.76	-60.43
5	11496.875 PK	49.22	74	-24.78	-50.8	4.76	-46.04
6	11490.625 AV	30.82	54	-23.18	-69.2	4.76	-64.44

Note :

Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



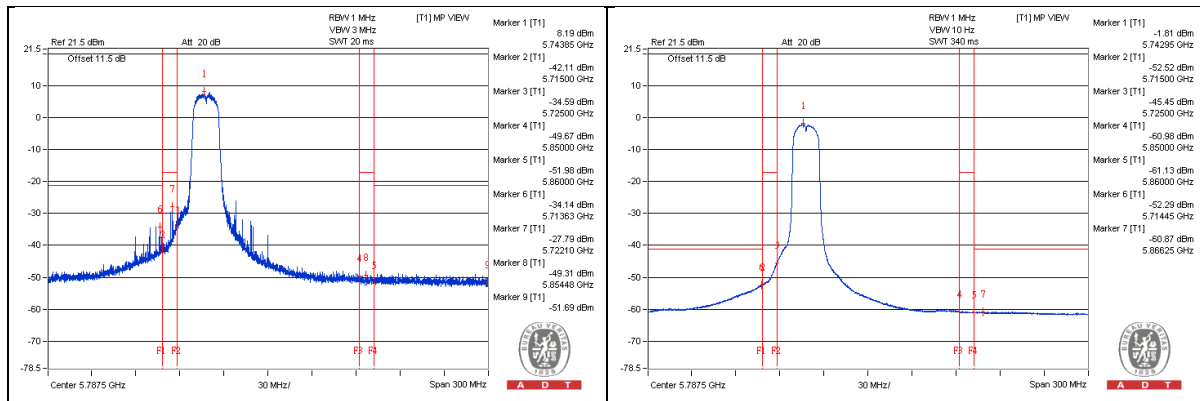
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5713.63 PK	65.88	74	-8.12	-34.14	4.76	-29.38
2	5714.45 AV	47.73	54	-6.27	-52.29	4.76	-47.53
3	5722.1 PK	72.23	78.2	-5.97	-27.79	4.76	-23.03
4	5854.48 PK	50.71	78.2	-27.49	-49.31	4.76	-44.55
5	5937.5 PK	48.33	74	-25.67	-51.69	4.76	-46.93
6	5866.25 AV	39.15	54	-14.85	-60.87	4.76	-56.11

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT20) - Channel 157

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3856.25 PK	51.39	74	-22.61	-48.63	4.76	-43.87
2	3856.25 AV	44.96	54	-9.04	-55.06	4.76	-50.3
3	7712.5 PK	50.56	74	-23.44	-49.46	4.76	-44.7
4	7712.5 AV	34.51	54	-19.49	-65.51	4.76	-60.75
5	11565.625 PK	49.26	74	-24.74	-50.76	4.76	-46
6	11571.875 AV	30.49	54	-23.51	-69.53	4.76	-64.77

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT20) - Channel 165

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3884.375 PK	51.38	74	-22.62	-48.64	4.76	-43.88
2	3881.25 AV	43.73	54	-10.27	-56.29	4.76	-51.53
3	11653.125 PK	49.78	74	-24.22	-50.24	4.76	-45.48
4	11650 AV	30.89	54	-23.11	-69.13	4.76	-64.37

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



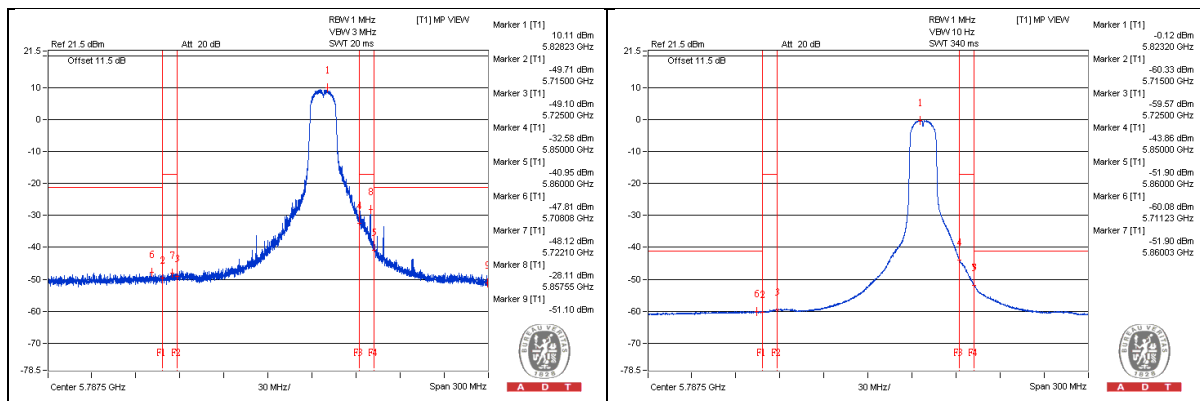
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5708.08 PK	52.21	74	-21.79	-47.81	4.76	-43.05
2	5711.23 AV	39.94	54	-14.06	-60.08	4.76	-55.32
3	5722.1 PK	51.9	78.2	-26.3	-48.12	4.76	-43.36
4	5857.55 PK	71.91	78.2	-6.29	-28.11	4.76	-23.35
5	5937.5 PK	48.92	74	-25.08	-51.1	4.76	-46.34
6	5860.03 AV	48.12	54	-5.88	-51.9	4.76	-47.14

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT40) - Channel 38

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3456.25 PK	50.49	74	-23.51	-50.33	5.56	-44.77
2	3459.375 AV	35.53	54	-18.47	-65.29	5.56	-59.73
3	6921.875 PK	56.7	68.2	-11.5	-44.12	5.56	-38.56
4	10371.875 PK	52.25	74	-21.75	-48.57	5.56	-43.01
5	10381.25 AV	34.72	54	-19.28	-66.1	5.56	-60.54
6	15570 PK	50.44	74	-23.56	-50.38	5.56	-44.82
7	15561.375 AV	39.22	54	-14.78	-61.6	5.56	-56.04

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



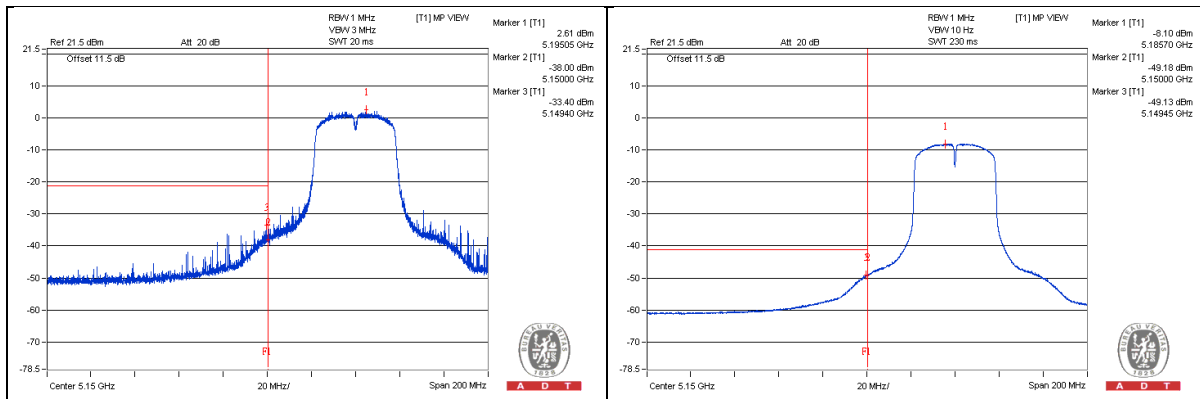
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5149.4 PK	67.42	74	-6.58	-33.4	5.56	-27.84
2	5149.45 AV	51.69	54	-2.31	-49.13	5.56	-43.57

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT40) - Channel 46

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3484.375 PK	50.94	74	-23.06	-49.88	5.56	-44.32
2	3484.375 AV	35.64	54	-18.36	-65.18	5.56	-59.62
3	6975 PK	56.3	68.2	-11.9	-44.52	5.56	-38.96
4	10468.75 PK	52.47	74	-21.53	-48.35	5.56	-42.79
5	10459.375 AV	36.65	54	-17.35	-64.17	5.56	-58.61
6	15687.875 PK	51.06	74	-22.94	-49.76	5.56	-44.2
7	15696.5 AV	38.99	54	-15.01	-61.83	5.56	-56.27

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT40) - Channel 54

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3515.625 PK	51.57	74	-22.43	-49.25	5.56	-43.69
2	3512.5 AV	35.09	54	-18.91	-65.73	5.56	-60.17
3	7028.125 PK	54.63	68.2	-13.57	-46.19	5.56	-40.63
4	10550 PK	51.64	74	-22.36	-49.18	5.56	-43.62
5	10543.75 AV	36.92	54	-17.08	-63.9	5.56	-58.34
6	15817.25 PK	52.15	74	-21.85	-48.67	5.56	-43.11
7	15805.75 AV	39.7	54	-14.3	-61.12	5.56	-55.56

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT40) - Channel 62

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3537.5 PK	51.96	74	-22.04	-48.86	5.56	-43.3
2	3540.625 AV	37.09	54	-16.91	-63.73	5.56	-58.17
3	7081.25 PK	54.36	74	-19.64	-46.46	5.56	-40.9
4	7081.25 AV	45.72	54	-8.28	-55.1	5.56	-49.54
5	10625 PK	51.3	74	-22.7	-49.52	5.56	-43.96
6	10621.875 AV	34.97	54	-19.03	-65.85	5.56	-60.29
7	15920.75 PK	49.24	74	-24.76	-51.58	5.56	-46.02
8	15923.625 AV	39.18	54	-14.82	-61.64	5.56	-56.08

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



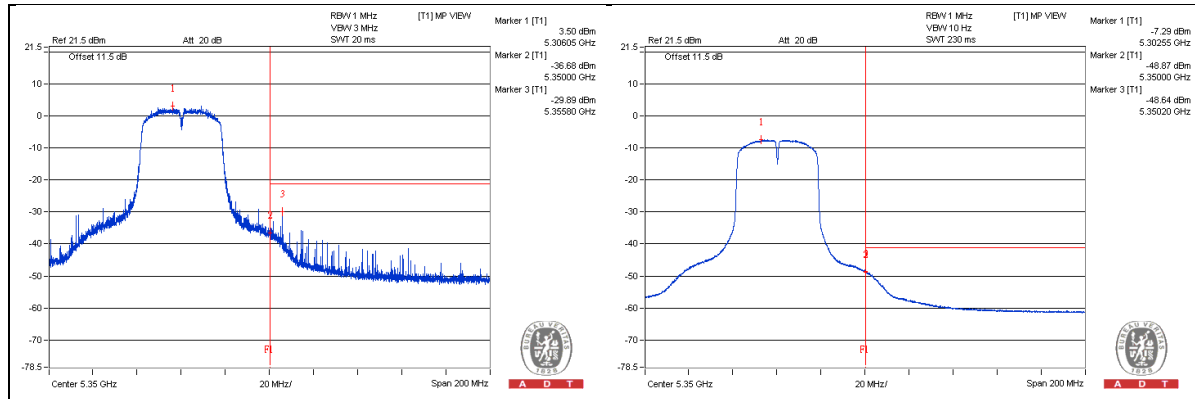
Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5355.8 PK	70.93	74	-3.07	-29.89	5.56	-24.33
2	5350.2 AV	52.18	54	-1.82	-48.64	5.56	-43.08

Note :

Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT40) - Channel 102

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3671.875 PK	53.17	74	-20.83	-47.43	5.34	-42.09
2	3671.875 AV	44.17	54	-9.83	-56.43	5.34	-51.09
3	7340.625 PK	52.56	74	-21.44	-48.04	5.34	-42.7
4	7346.875 AV	38.76	54	-15.24	-61.84	5.34	-56.5
5	11021.875 PK	49.94	74	-24.06	-50.66	5.34	-45.32
6	11018.75 AV	32.94	54	-21.06	-67.66	5.34	-62.32
7	16538.875 PK	50.96	74	-23.04	-49.64	5.34	-44.3
8	16530.25 AV	39.17	54	-14.83	-61.43	5.34	-56.09

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.



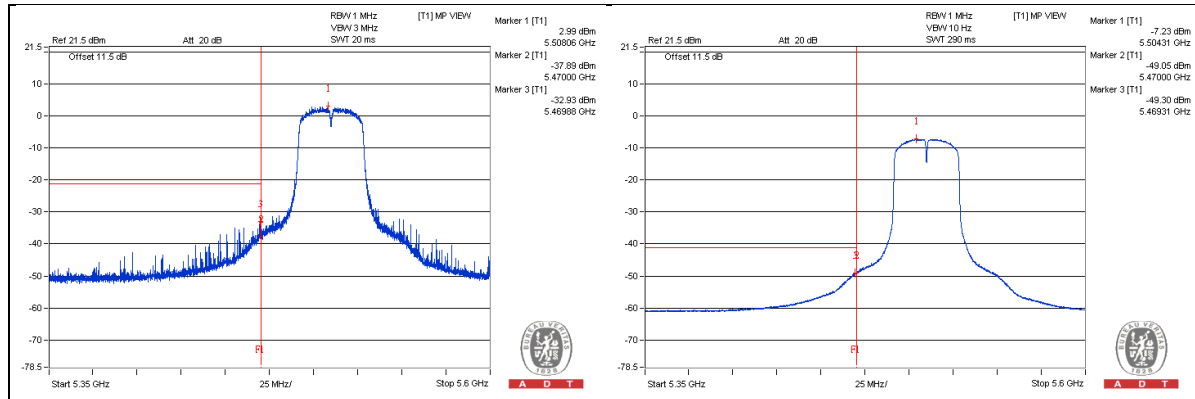
Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5469.88 PK	67.67	74	-6.33	-32.93	5.34	-27.59
2	5469.31 AV	51.57	54	-2.43	-49.03	5.34	-43.69

Note :

Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT40) - Channel 118

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3725 PK	52.41	74	-21.59	-48.19	5.34	-42.85
2	3725 AV	39.45	54	-14.55	-61.15	5.34	-55.81
3	7459.375 PK	51.34	74	-22.66	-49.26	5.34	-43.92
4	7453.125 AV	37.53	54	-16.47	-63.07	5.34	-57.73
5	11171.875 PK	49.92	74	-24.08	-50.68	5.34	-45.34
6	11181.25 AV	30.69	54	-23.31	-69.91	5.34	-64.57
7	16771.75 PK	49.5	74	-24.5	-51.1	5.34	-45.76
8	16777.5 AV	38.5	54	-15.5	-62.1	5.34	-56.76

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT40) - Channel 134

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3778.125 PK	52.93	74	-21.07	-47.67	5.34	-42.33
2	3778.125 AV	46.37	54	-7.63	-54.23	5.34	-48.89
3	7556.25 PK	51.51	74	-22.49	-49.09	5.34	-43.75
4	7559.375 AV	39.3	54	-14.7	-61.3	5.34	-55.96
5	11337.5 PK	51.71	74	-22.29	-48.89	5.34	-43.55
6	11340.625 AV	31.23	54	-22.77	-69.37	5.34	-64.03
7	17004.625 PK	52.15	74	-21.85	-48.45	5.34	-43.11
8	17010.375 AV	40.99	54	-13.01	-59.61	5.34	-54.27

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



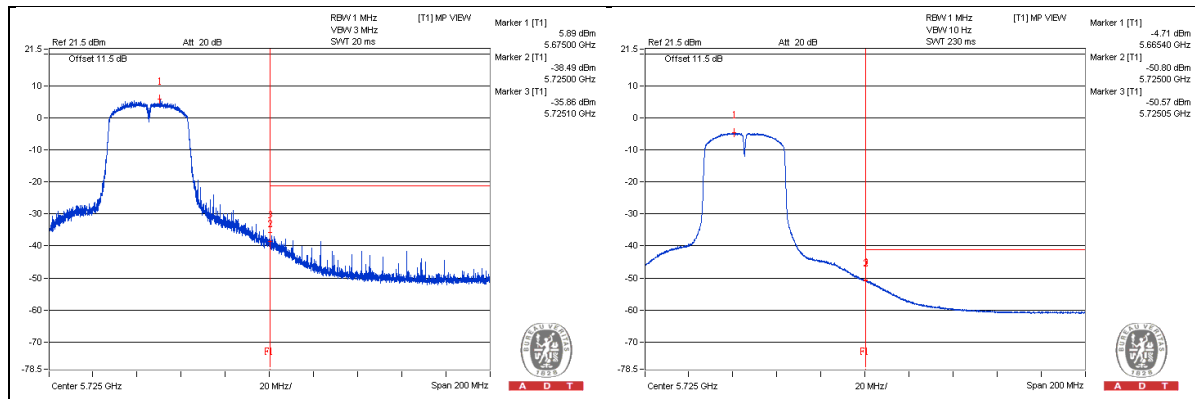
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5725.1 PK	64.74	74	-9.26	-35.86	5.34	-30.52
2	5725.05 AV	50.03	54	-3.97	-50.57	5.34	-45.23

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT40) - Channel 142

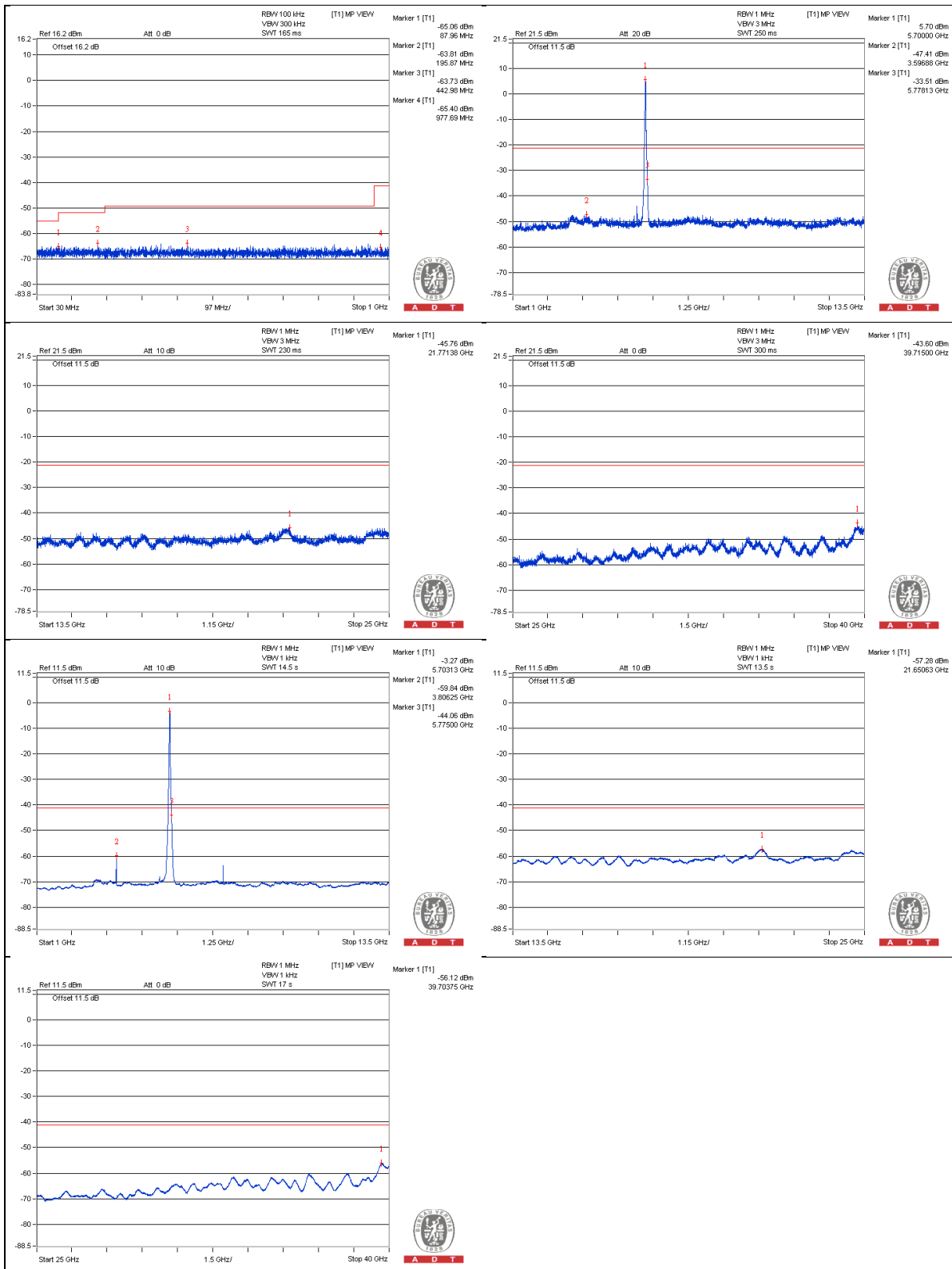
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3806.25 PK	51.23	74	-22.77	-49.37	5.34	-44.03
2	3806.25 AV	40.76	54	-13.24	-59.84	5.34	-54.5
3	7609.375 PK	51.4	74	-22.6	-49.2	5.34	-43.86
4	7612.5 AV	36.8	54	-17.2	-63.8	5.34	-58.46
5	11415.625 PK	49.2	74	-24.8	-51.4	5.34	-46.06
6	11421.875 AV	29.37	54	-24.63	-71.23	5.34	-65.89
7	17131.125 PK	50.42	74	-23.58	-50.18	5.34	-44.84
8	17122.5 AV	38.78	54	-15.22	-61.82	5.34	-56.48

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



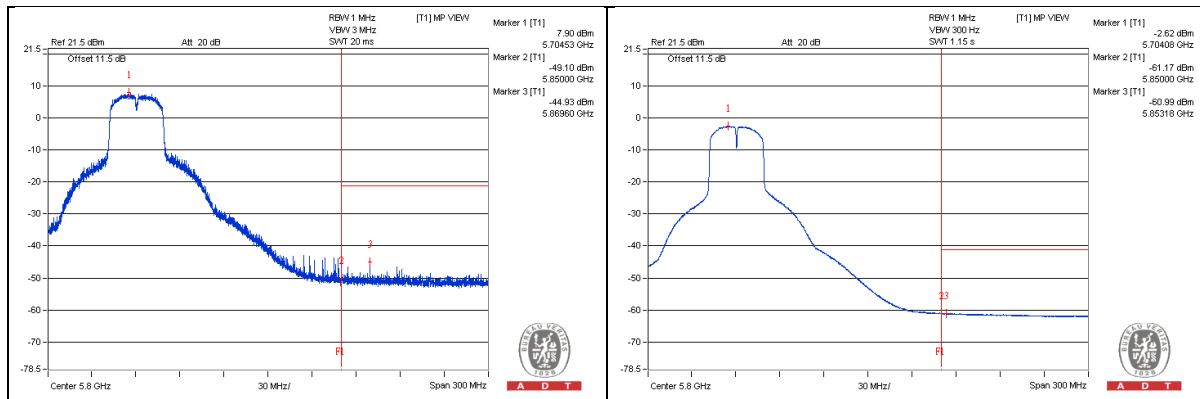
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5869.6 PK	55.67	74	-18.33	-44.93	5.34	-39.59
2	5853.18 AV	39.61	54	-14.39	-60.99	5.34	-55.65

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT40) - Channel 151

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3837.5 PK	52.2	74	-21.8	-47.82	4.76	-43.06
2	3834.375 AV	45.29	54	-8.71	-54.73	4.76	-49.97
3	7665.625 PK	50.58	74	-23.42	-49.44	4.76	-44.68
4	7675 AV	34.85	54	-19.15	-65.17	4.76	-60.41
5	11509.375 PK	50.04	74	-23.96	-49.98	4.76	-45.22
6	11509.375 AV	29.82	54	-24.18	-70.2	4.76	-65.44

Note :

Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



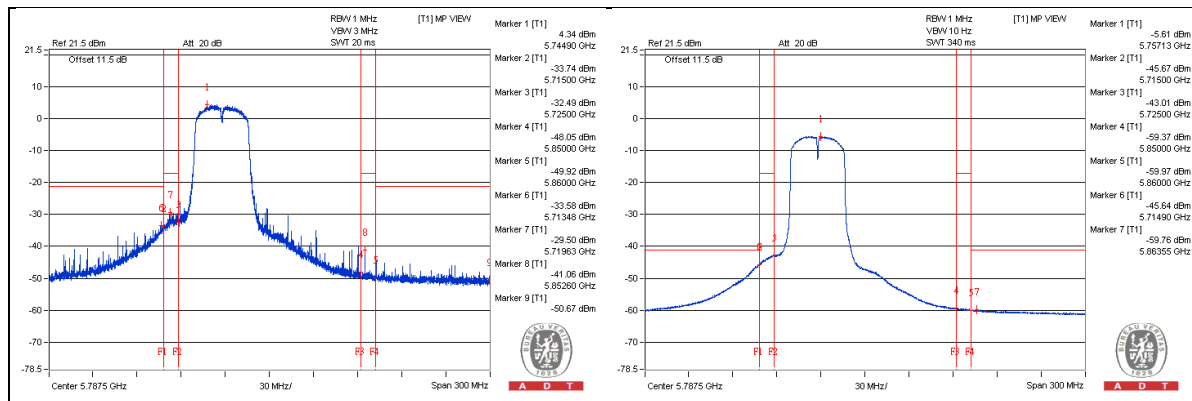
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5713.48 PK	66.44	74	-7.56	-33.58	4.76	-28.82
2	5714.9 AV	54.38	54	* 0.38	-45.64	4.76	-40.88
3	5719.63 PK	70.52	78.2	-7.68	-29.5	4.76	-24.74
4	5852.6 PK	58.96	78.2	-19.24	-41.06	4.76	-36.3
5	5937.5 PK	49.35	74	-24.65	-50.67	4.76	-45.91
6	5863.55 AV	40.26	54	-13.74	-59.76	4.76	-55

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT40) - Channel 159

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3862.5 PK	51.74	74	-22.26	-48.28	4.76	-43.52
2	3862.5 AV	45.19	54	-8.81	-54.83	4.76	-50.07
3	7728.125 PK	50.85	74	-23.15	-49.17	4.76	-44.41
4	7728.125 AV	33.94	54	-20.06	-66.08	4.76	-61.32
5	11590.625 PK	48.38	74	-25.62	-51.64	4.76	-46.88
6	11593.75 AV	29.13	54	-24.87	-70.89	4.76	-66.13

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



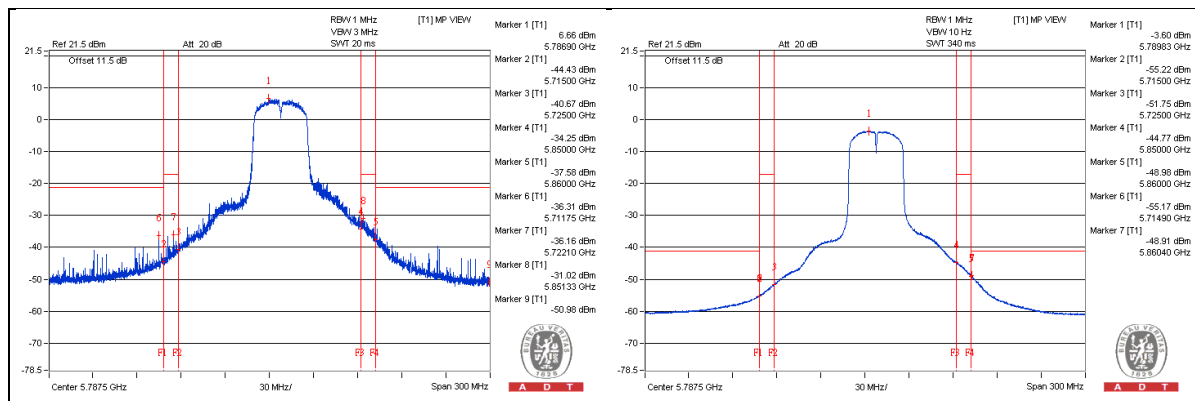
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5711.75 PK	63.71	74	-10.29	-36.31	4.76	-31.55
2	5714.9 AV	44.85	54	-9.15	-55.17	4.76	-50.41
3	5722.1 PK	63.86	78.2	-14.34	-36.16	4.76	-31.4
4	5851.33 PK	69	78.2	-9.2	-31.02	4.76	-26.26
5	5937.5 PK	49.04	74	-24.96	-50.98	4.76	-46.22
6	5860.4 AV	51.11	54	-2.89	-48.91	4.76	-44.15

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT80) - Channel 42

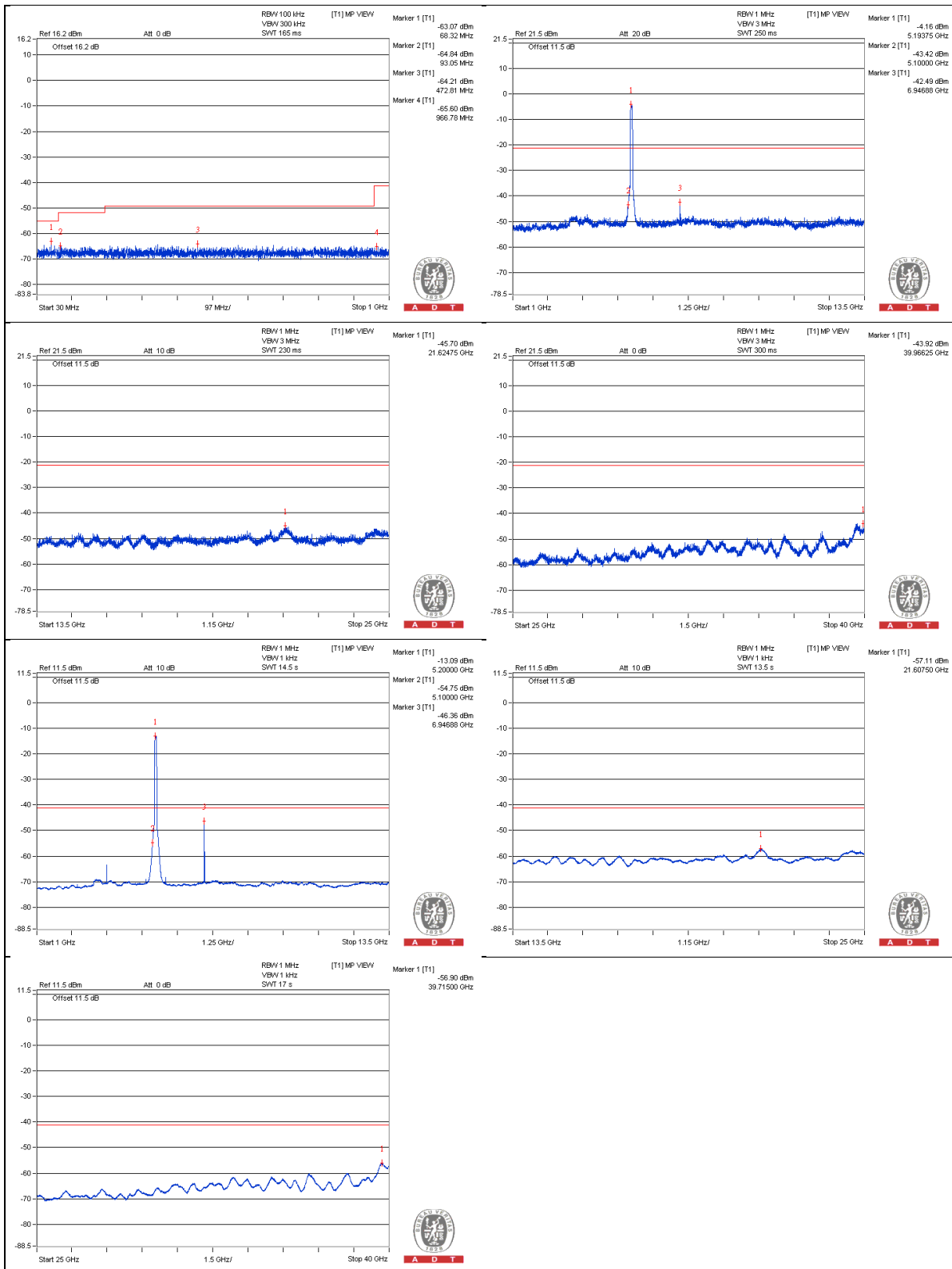
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3471.875 PK	50.97	74	-23.03	-49.85	5.56	-44.29
2	3471.875 AV	36.53	54	-17.47	-64.29	5.56	-58.73
3	6946.875 PK	55.91	68.2	-12.29	-44.91	5.56	-39.35
4	10425 PK	51.9	74	-22.1	-48.92	5.56	-43.36
5	10421.875 AV	32.79	54	-21.21	-68.03	5.56	-62.47
6	15633.25 PK	49.12	74	-24.88	-51.7	5.56	-46.14
7	15633.25 AV	38.55	54	-15.45	-62.27	5.56	-56.71

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5149.6 PK	75.79	74	* 1.79	-25.03	5.56	-19.47
2	5149.8 AV	60.64	54	* 6.64	-40.18	5.56	-34.62

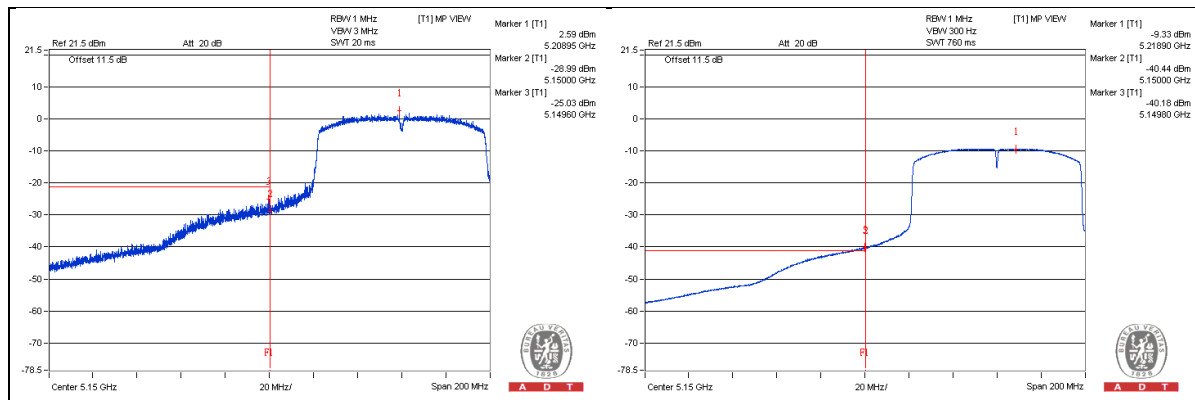
Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

* The unwanted emission was verified and the test result was passed by radiated measurement.

(Please refer APPENDIX A)



802.11ac (VHT80) - Channel 58

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3518.75 PK	51.84	74	-22.16	-48.98	5.56	-43.42
2	3525 AV	38.55	54	-15.45	-62.27	5.56	-56.71
3	7053.125 PK	53.84	74	-20.16	-46.98	5.56	-41.42
4	7053.125 AV	48.71	54	-5.29	-52.11	5.56	-46.55
5	10584.375 PK	51.35	74	-22.65	-49.47	5.56	-43.91
6	10578.125 AV	33.49	54	-20.51	-67.33	5.56	-61.77
7	15866.125 PK	52.44	74	-21.56	-48.38	5.56	-42.82
8	15860.375 AV	39.88	54	-14.12	-60.94	5.56	-55.38

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



Bandedge table

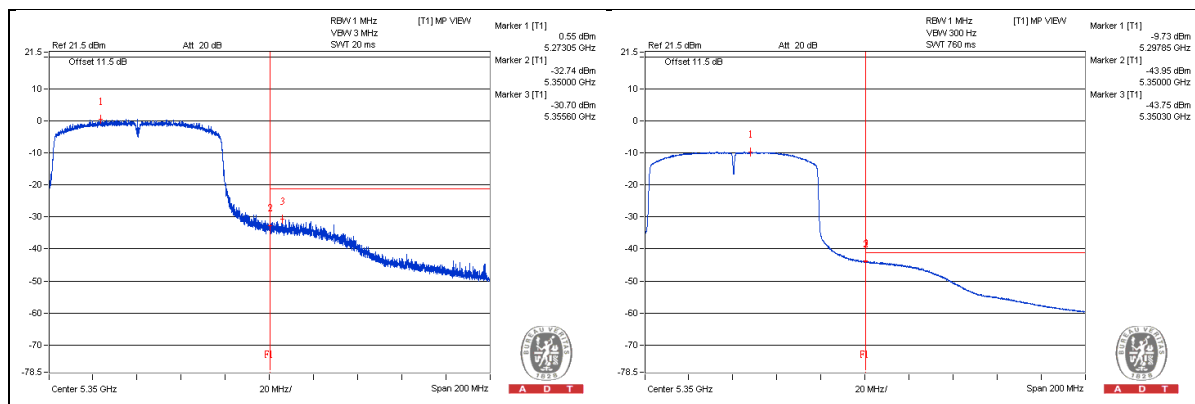
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5355.6 PK	70.12	74	-3.88	-30.7	5.56	-25.14
2	5350.3 AV	57.07	54	* 3.07	-43.75	5.56	-38.19

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

* The unwanted emission was verified and the test result was passed by radiated measurement.
(Please refer APPENDIX A)



802.11ac (VHT80) - Channel 106

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3687.5 PK	51.64	74	-22.36	-48.96	5.34	-43.62
2	3684.375 AV	43.11	54	-10.89	-57.49	5.34	-52.15
3	7368.75 PK	52.96	74	-21.04	-47.64	5.34	-42.3
4	7371.875 AV	37.92	54	-16.08	-62.68	5.34	-57.34
5	11062.5 PK	49.81	74	-24.19	-50.79	5.34	-45.45
6	11053.125 AV	30.84	54	-23.16	-69.76	5.34	-64.42
7	16596.375 PK	49.54	74	-24.46	-51.06	5.34	-45.72
8	16584.875 AV	37.95	54	-16.05	-62.65	5.34	-57.31

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



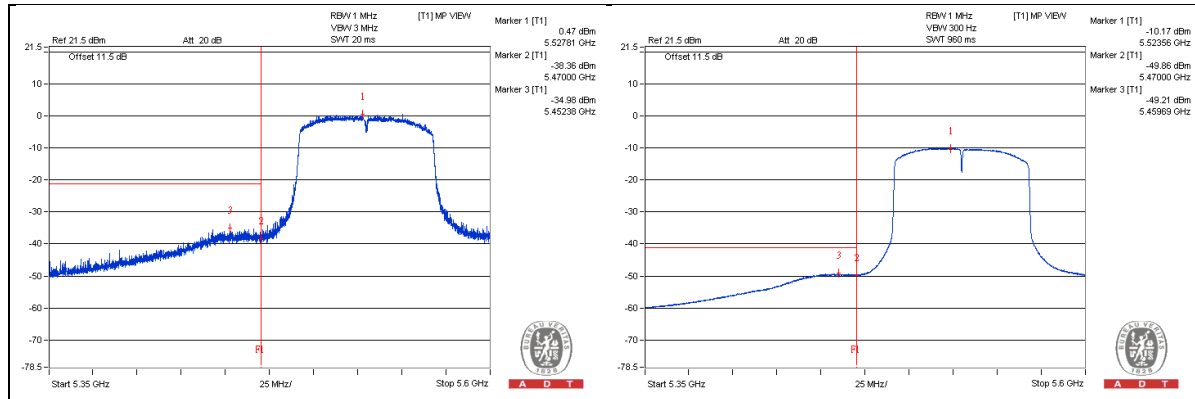
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5452.38 PK	65.62	74	-8.38	-34.98	5.34	-29.64
2	5459.69 AV	51.39	54	-2.61	-49.21	5.34	-43.87

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT80) - Channel 122

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3740.625 PK	54.28	74	-19.72	-46.32	5.34	-40.98
2	3740.625 AV	44.62	54	-9.38	-55.98	5.34	-50.64
3	7481.25 PK	51.98	74	-22.02	-48.62	5.34	-43.28
4	7481.25 AV	40.89	54	-13.11	-59.71	5.34	-54.37
5	11215.625 PK	50.78	74	-23.22	-49.82	5.34	-44.48
6	11215.625 AV	30.8	54	-23.2	-69.8	5.34	-64.46
7	16829.25 PK	50.91	74	-23.09	-49.69	5.34	-44.35
8	16829.25 AV	39.81	54	-14.19	-60.79	5.34	-55.45

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5726.45 PK	69.29	74	-4.71	-31.31	5.34	-25.97
2	5725.05 AV	56.26	54	* 2.26	-44.34	5.34	-39

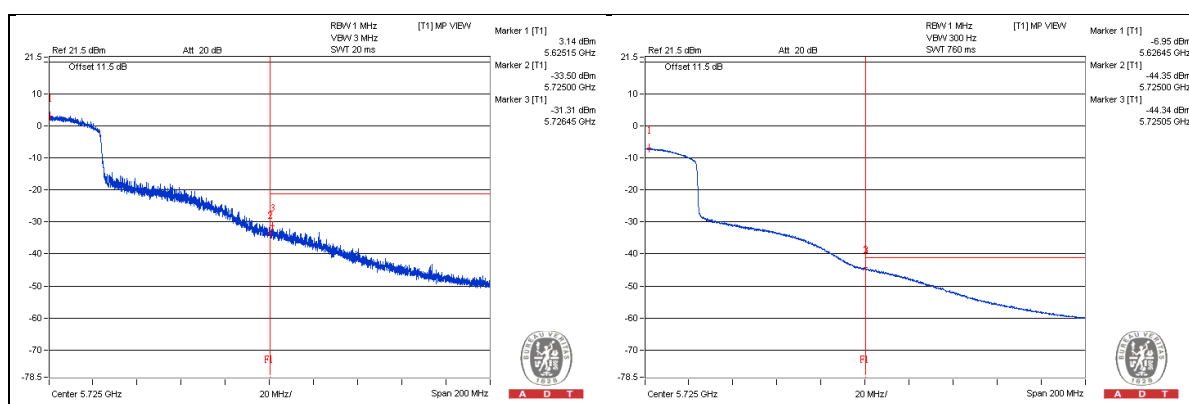
Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

* The unwanted emission was verified and the test result was passed by radiated measurement.

(Please refer APPENDIX A)



802.11ac (VHT80) - Channel 138

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3790.625 PK	51.98	74	-22.02	-48.62	5.34	-43.28
2	3793.75 AV	41.44	54	-12.56	-59.16	5.34	-53.82
3	7584.375 PK	51.07	74	-22.93	-49.53	5.34	-44.19
4	7587.5 AV	37.5	54	-16.5	-63.1	5.34	-57.76
5	11375 PK	50.16	74	-23.84	-50.44	5.34	-45.1
6	11375 AV	29.48	54	-24.52	-71.12	5.34	-65.78
7	17067.875 PK	51.12	74	-22.88	-49.48	5.34	-44.14
8	17067.875 AV	39.58	54	-14.42	-61.02	5.34	-55.68

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



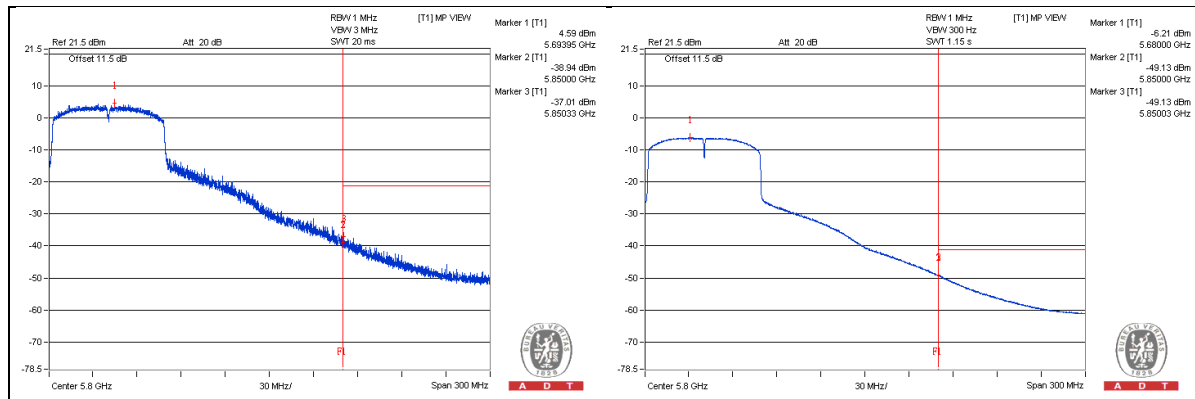
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5850.33 PK	63.59	74	-10.41	-37.01	5.34	-31.67
2	5850.03 AV	51.47	54	-2.53	-49.13	5.34	-43.79

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



802.11ac (VHT80) - Channel 155

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	3850 PK	51.69	74	-22.31	-48.33	4.76	-43.57
2	3850 AV	46.7	54	-7.3	-53.32	4.76	-48.56
3	7696.875 PK	50.44	74	-23.56	-49.58	4.76	-44.82
4	7700 AV	33.84	54	-20.16	-66.18	4.76	-61.42
5	11556.25 PK	49.15	74	-24.85	-50.87	4.76	-46.11
6	11546.875 AV	28.58	54	-25.42	-71.44	4.76	-66.68

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



Bandedge table

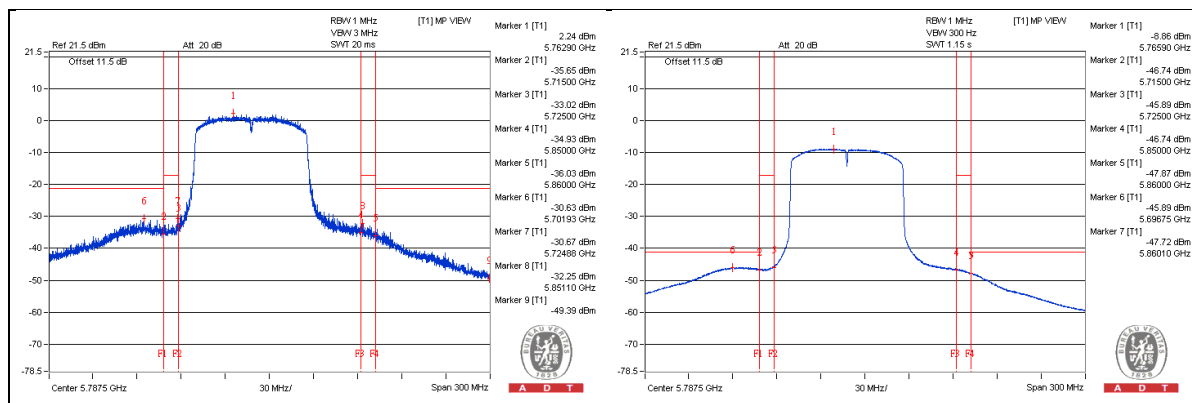
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5701.93 PK	69.39	74	-4.61	-30.63	4.76	-25.87
2	5696.75 AV	54.13	54	* 0.13	-45.89	4.76	-41.13
3	5724.88 PK	69.35	78.2	-8.85	-30.67	4.76	-25.91
4	5851.1 PK	67.77	78.2	-10.43	-32.25	4.76	-27.49
5	5937.5 PK	50.63	74	-23.37	-49.39	4.76	-44.63
6	5860.1 AV	52.3	54	-1.7	-47.72	4.76	-42.96

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

* The unwanted emission was verified and the test result was passed by radiated measurement.
(Please refer APPENDIX A)



Below 1GHz Data

802.11a - Channel 52

Conducted spurious emission table

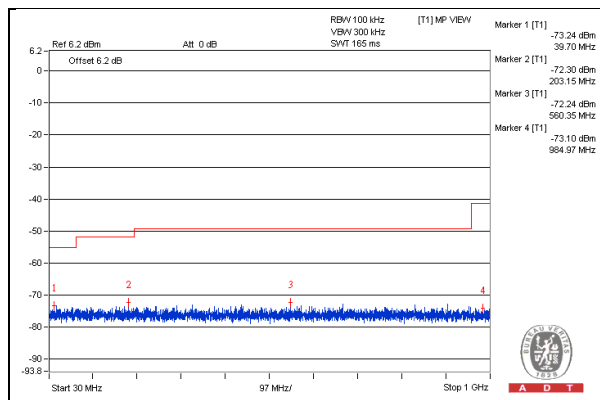
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	39.7	26.78	40	-13.22	-73.24	4.76	-68.48
2	203.145	27.72	43.5	-15.78	-72.3	4.76	-67.54
3	344.0375	26.83	46	-19.17	-73.19	4.76	-68.43
4	560.3475	27.78	46	-18.22	-72.24	4.76	-67.48
5	675.7775	27.24	46	-18.76	-72.78	4.76	-68.02
6	908.335	27.24	46	-18.76	-72.78	4.76	-68.02

Note :

Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Emission levels include upper bound on ground plane reflection (4.7dB) for below 1GHz emission.

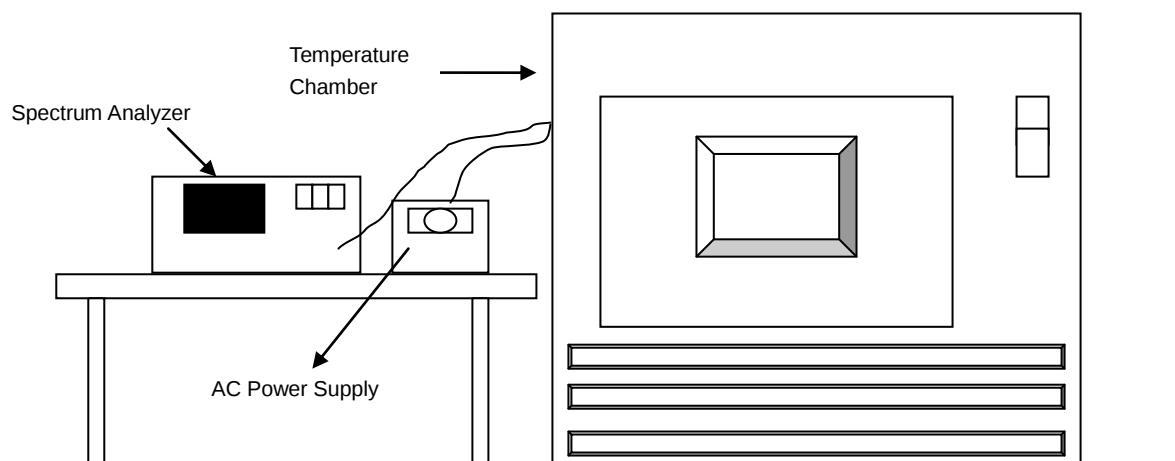


4.5 Frequency Stability Measurement

4.5.1 Limits of Frequency Stability Measurement

The frequency of the carrier signal shall be maintained within band of operation

4.5.2 Test Setup



4.5.3 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
SPECTRUM ANALYZER R&S	FSP 40	100060	May 08, 2015	May 07, 2016
Temperature & Humidity Chamber GIANTFORCE	GTH-150-40-S P-AR	MAA0812-008	Jan. 12, 2015	Jan. 11, 2016

- NOTE:**
1. The test was performed in Oven room 2.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. Tested Date: July 23, 2015

4.5.4 Test Procedures

- a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- b. Turn the EUT on and couple its output to a spectrum analyzer.
- c. Turn the EUT off and set the chamber to the highest temperature specified.
- d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

Set the EUT transmit at un-modulation mode to test frequency stability.

4.5.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5700MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120	5700.0221	0.00039	5700.0224	0.00039	5700.0212	0.00037	5700.0195	0.00034
40	120	5699.9749	-0.00044	5699.9741	-0.00045	5699.9757	-0.00043	5699.9745	-0.00045
30	120	5699.9882	-0.00021	5699.9881	-0.00021	5699.9883	-0.00021	5699.9902	-0.00017
20	120	5699.999	-0.00002	5700	0.00000	5700.0013	0.00002	5699.9999	0.00000
10	120	5700.0287	0.00050	5700.0301	0.00053	5700.0284	0.00050	5700.026	0.00046
0	120	5700.0057	0.00010	5700.0055	0.00010	5700.0065	0.00011	5700.003	0.00005
-10	120	5700.0157	0.00028	5700.0156	0.00027	5700.0115	0.00020	5700.0106	0.00019
-20	120	5699.9767	-0.00041	5699.9771	-0.00040	5699.9819	-0.00032	5699.982	-0.00032
-30	120	5699.9846	-0.00027	5699.9807	-0.00034	5699.983	-0.00030	5699.9811	-0.00033

Frequency Stability Versus Temp.									
Operating Frequency: 5700MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5699.9999	0.00000	5700.0011	0.00002	5700.0019	0.00003	5700.0001	0.00000
	120	5699.999	-0.00002	5700	0.00000	5700.0013	0.00002	5699.9999	0.00000
	102	5699.9995	-0.00001	5700.0006	0.00001	5700.0005	0.00001	5700	0.00000

4.6 Conducted Emission Measurement

4.6.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.6.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS 30	847124/029	Oct. 22, 2014	Oct. 21, 2015
Line-Impedance Stabilization Network (for EUT) SCHWARZBECK	NSLK-8127	8127-522	Sep. 15, 2014	Sep. 14, 2015
Line-Impedance Stabilization Network (for Peripheral) ROHDE & SCHWARZ	ENV216	100071	Nov. 10, 2014	Nov. 09, 2015
RF Cable	5D-FB	COCCAB-001	Mar. 09, 2015	Mar. 08, 2016
50 ohms Terminator	N/A	EMC-03	Sep. 22, 2014	Sep. 21, 2015
50 ohms Terminator	N/A	EMC-02	Sep. 30, 2014	Sep. 29, 2015
Software BVADT	BVADT_Cond_ V7.3.7.3	NA	NA	NA

Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. C.
3. The VCCI Con C Registration No. is C-3611.
4. Tested Date: Apr. 29, 2015

4.6.3 Test Procedures

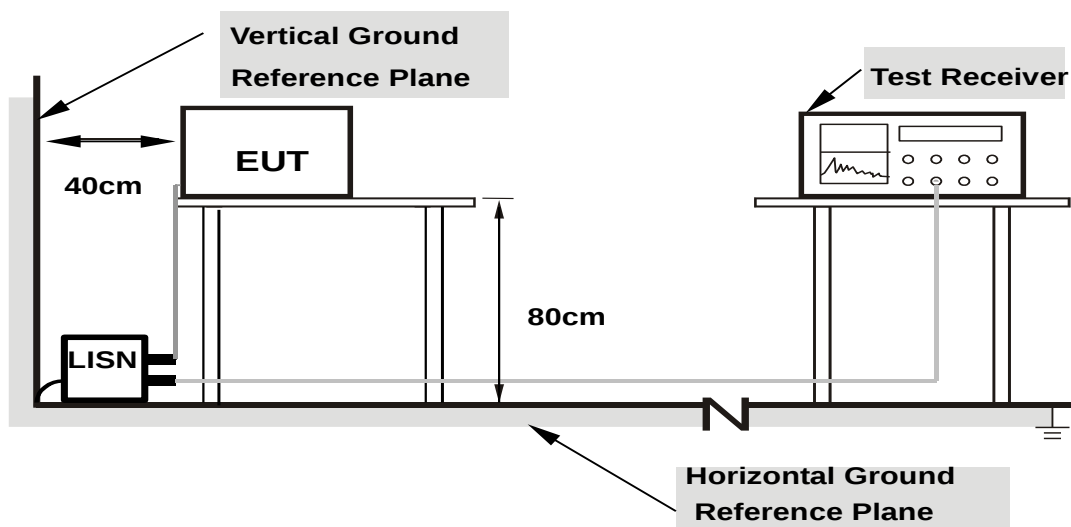
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.6.4 Deviation from Test Standard

No deviation.

4.6.5 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.6.6 EUT Operating Conditions

Same as 4.4.6.

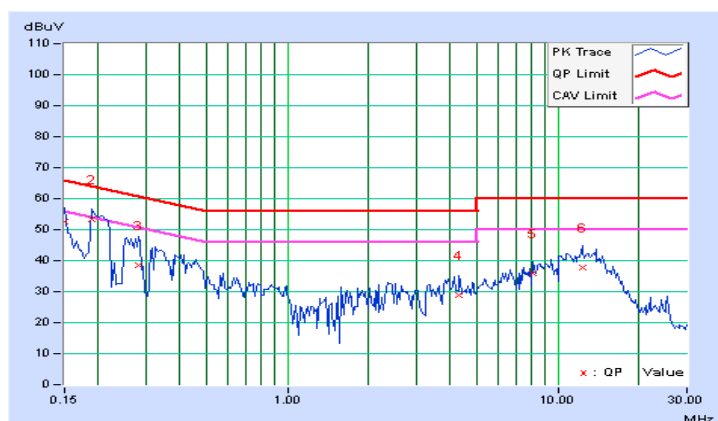
4.6.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.08	52.55	29.94	52.63	30.02	66.00	56.00	-13.37	-25.98
2	0.18906	0.09	53.10	34.67	53.19	34.76	64.08	54.08	-10.89	-19.32
3	0.28281	0.09	38.33	13.61	38.42	13.70	60.73	50.73	-22.31	-37.03
4	4.28516	0.23	28.83	20.66	29.06	20.89	56.00	46.00	-26.94	-25.11
5	8.03516	0.37	35.38	25.65	35.75	26.02	60.00	50.00	-24.25	-23.98
6	12.31641	0.51	37.21	28.61	37.72	29.12	60.00	50.00	-22.28	-20.88

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

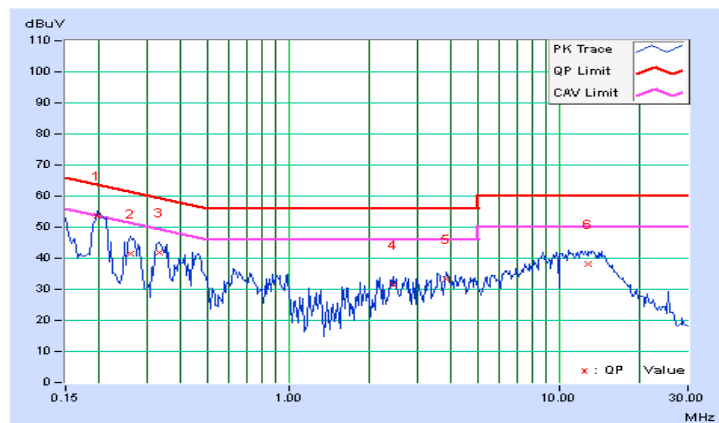


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	0.08	53.52	44.44	53.60	44.52	63.74	53.74	-10.14	-9.22
2	0.25938	0.09	41.43	33.71	41.52	33.80	61.45	51.45	-19.94	-17.66
3	0.33359	0.09	41.86	35.17	41.95	35.26	59.36	49.36	-17.41	-14.10
4	2.43359	0.18	31.28	23.39	31.46	23.57	56.00	46.00	-24.54	-22.43
5	3.82813	0.22	33.12	24.01	33.34	24.23	56.00	46.00	-22.66	-21.77
6	12.91797	0.54	37.64	30.53	38.18	31.07	60.00	50.00	-21.82	-18.93

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

6 Appendix A – Radiated Emission Measurement

6.1.1 Limits of Radiated Emission Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

6.1.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Agilent	N9038A	MY51210202	Dec. 12, 2014	Dec. 11, 2015
Horn_Antenna AISI	AIH.8018	000032009111 0	Feb. 09, 2015	Feb. 08, 2016
Pre-Amplifier Agilent	8449B	3008A02578	June 23, 2015	June 22, 2016
RF Cable	NA	131205 131216 131217 SNMY23684/ 4	Jan. 16, 2015	Jan. 15, 2016
Spectrum Analyzer R&S	FSV40	100964	June 26, 2015	June 25, 2016
Pre-Amplifier SPACEK LABS	SLKKa-48-6	9K16	Dec. 12, 2014	Dec. 11, 2015
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Feb. 05, 2015	Feb. 04, 2016
RF Cable	NA	329751/4 RF104-204	Dec. 11, 2014	Dec. 10, 2015
Software	ADT_Radiated _V8.7.07	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. G.
3. The FCC Site Registration No. is 966073.
4. The VCCI Site Registration No. is G-137.
5. The CANADA Site Registration No. is IC 7450H-2.
6. Tested Date: July 24, 2015

6.1.3 Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

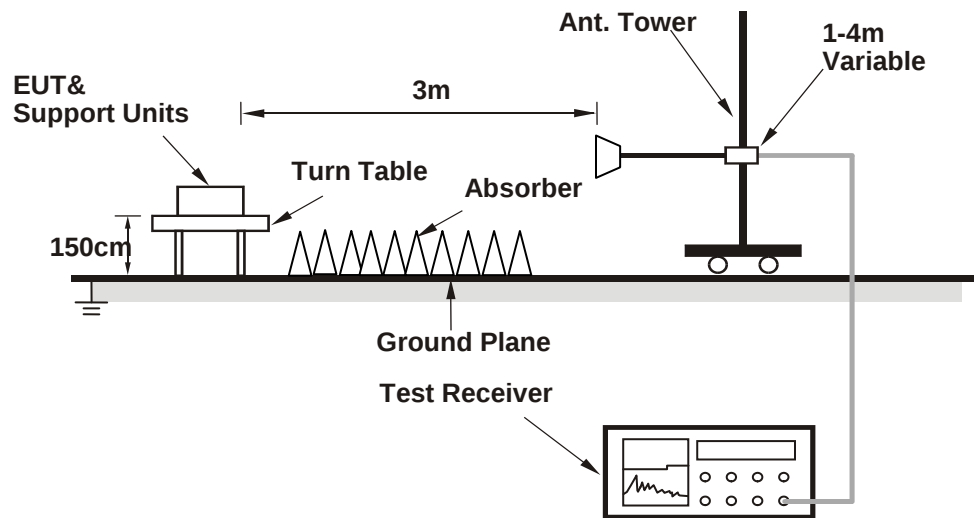
NOTE:

1. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

6.1.4 Deviation from Test Standard

No deviation

6.1.5 Test Setup



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

6.1.6 EUT Operating Conditions

Same as 4.4.6.

6.1.7 Test Results

The EUT's antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.

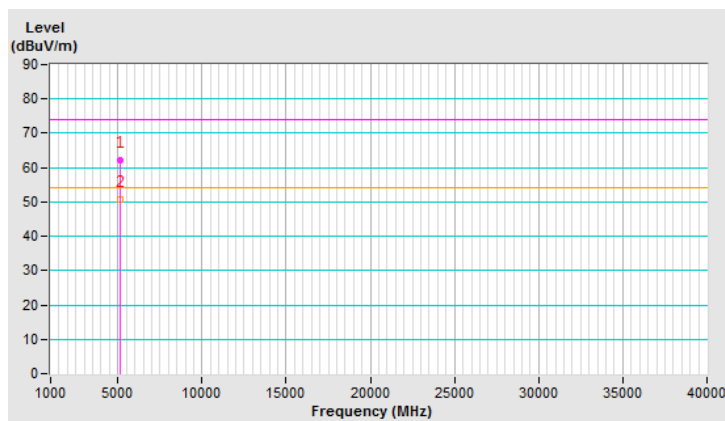
802.11ac (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.2 PK	74.0	-11.8	1.91 H	49	53.87	8.33
2	5150.00	50.6 AV	54.0	-3.4	1.91 H	49	42.27	8.33

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value

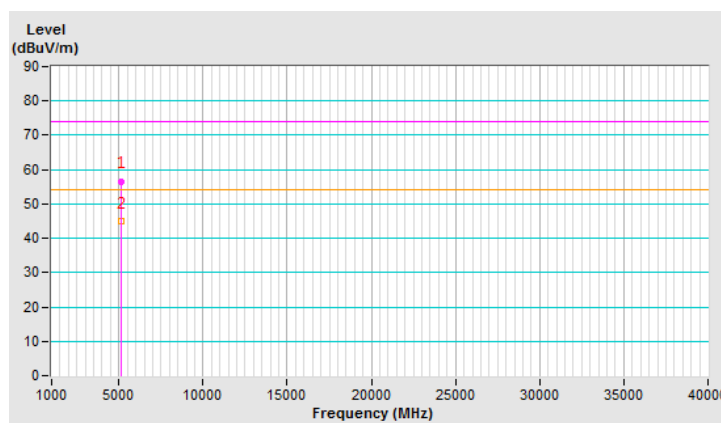


CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.6 PK	74.0	-17.4	1.61 V	326	48.27	8.33
2	5150.00	45.0 AV	54.0	-9.0	1.61 V	326	36.67	8.33

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value

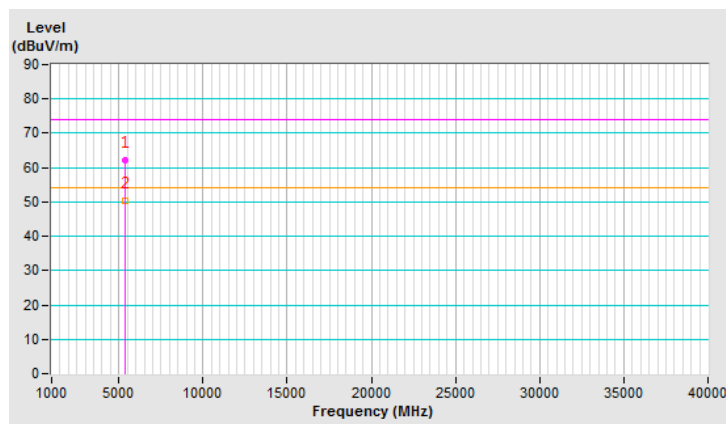


CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	62.0 PK	74.0	-12.0	1.96 H	61	53.20	8.80
2	5350.00	50.3 AV	54.0	-3.7	1.96 H	61	41.50	8.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value

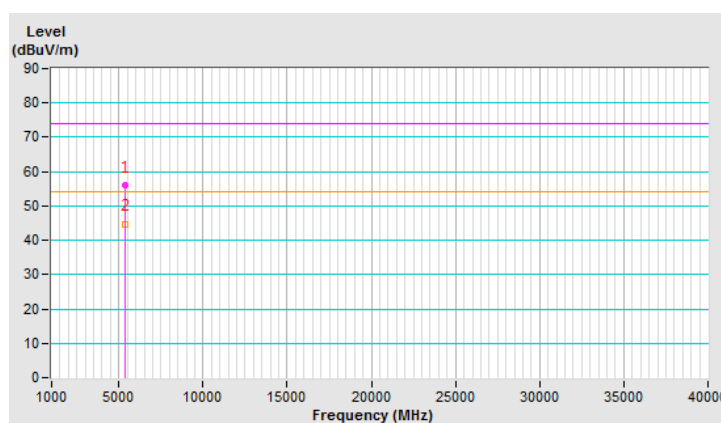


CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	56.1 PK	74.0	-17.9	1.62 V	314	47.30	8.80
2	5350.00	44.8 AV	54.0	-9.2	1.62 V	314	36.00	8.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value

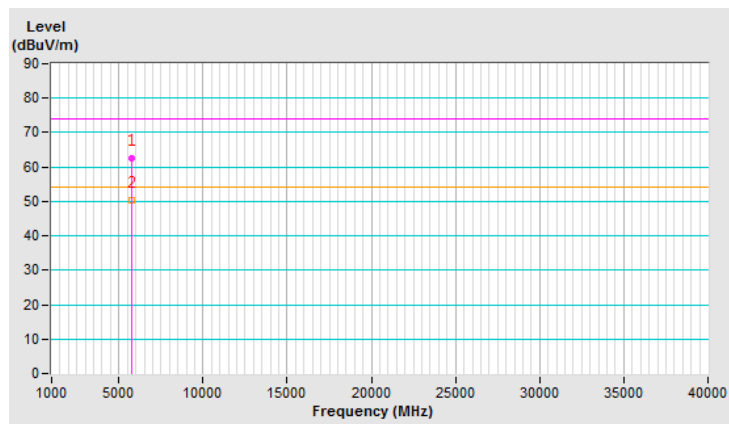


CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5725.00	62.6 PK	74.0	-11.4	1.87 H	60	52.90	9.70
2	#5725.00	50.4 AV	54.0	-3.6	1.87 H	60	40.70	9.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. " # ": The radiated frequency is out of the restricted band.

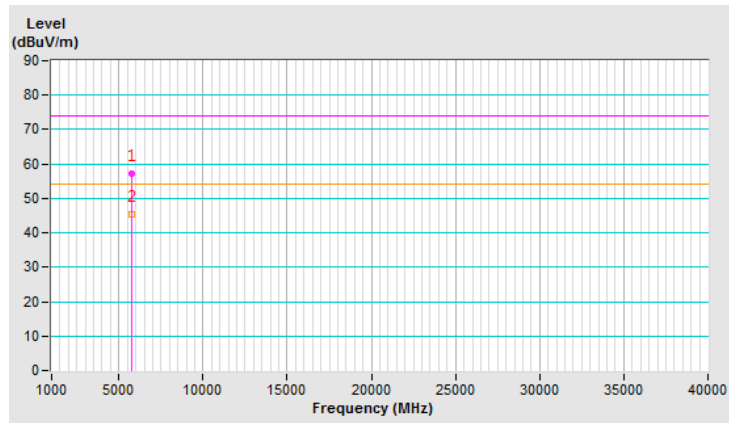


CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5725.00	57.2 PK	74.0	-16.8	1.57 V	342	47.50	9.70
2	#5725.00	45.4 AV	54.0	-8.6	1.57 V	342	35.70	9.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. " # ": The radiated frequency is out of the restricted band.

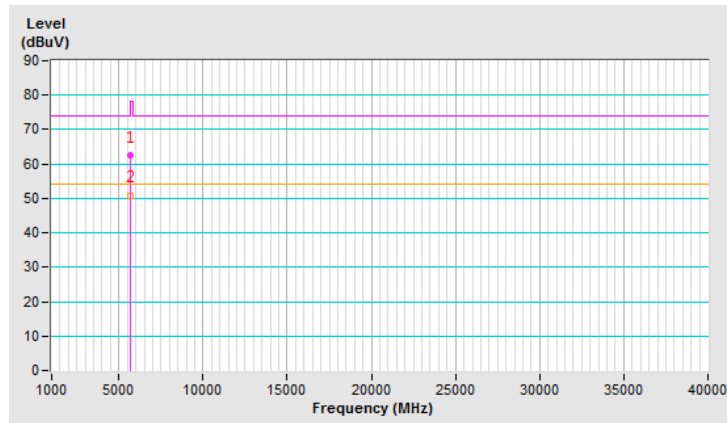


CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	62.5 PK	74.0	-11.5	1.88 H	35	52.82	9.68
2	#5715.00	50.9 AV	54.0	-3.1	1.88 H	35	41.22	9.68

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. " # ": The radiated frequency is out of the restricted band.

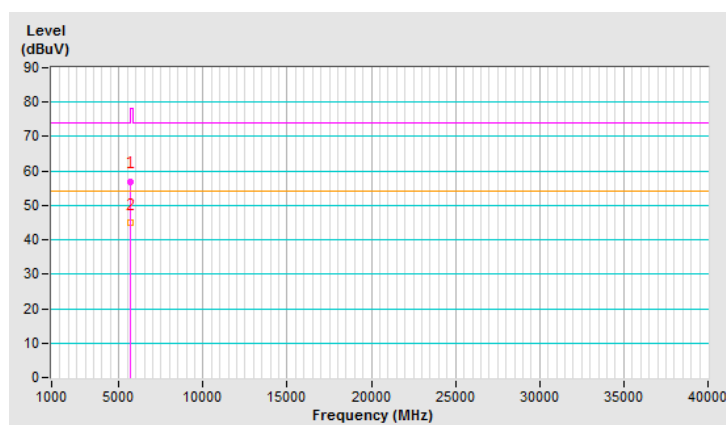


CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	57.0 PK	74.0	-17.0	1.61 V	335	47.32	9.68
2	#5715.00	45.1 AV	54.0	-8.9	1.61 V	335	35.42	9.68

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. " # ": The radiated frequency is out of the restricted band.



7 Appendix B – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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