

802.11ac (VHT20) – Channel 60

Conducted spurious emission table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	83.1	39.33	#		-62.59	6.66	-55.93
2	146.15	38.55	#		-63.37	6.66	-56.71
3	443.46	39.35	#		-62.57	6.66	-55.91
4	989.93	38.24	54	-15.76	-63.68	6.66	-57.02

Note :

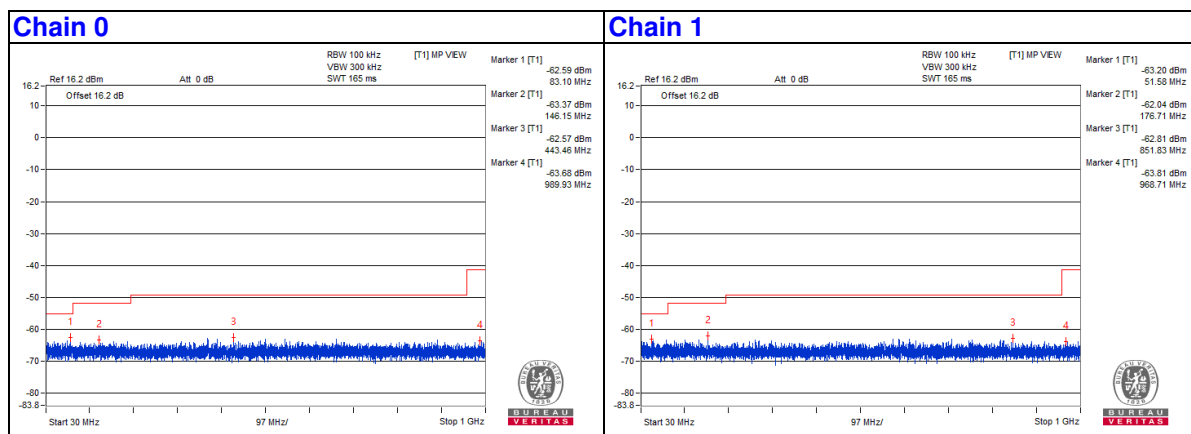
- Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
- # : Non-restricted frequency, no limit for average emission.

Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	51.58	38.81	#		-63.2	6.75	-56.45
2	176.71	39.97	#		-62.04	6.75	-55.29
3	851.83	39.2	46	-6.8	-62.81	6.75	-56.06
4	968.71	38.2	54	-15.8	-63.81	6.75	-57.06

Note :

- Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
- # : Non-restricted frequency, no limit for average emission.



802.11ac (VHT20) – Channel 144

Conducted spurious emission table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	66.13	37.28	#		-64.64	6.66	-57.98
2	124.81	37.38	43.5	-6.12	-64.54	6.66	-57.88
3	421.63	38.84	#		-63.08	6.66	-56.42
4	999.51	36.2	54	-17.8	-65.72	6.66	-59.06

Note :

- Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
- # : Non-restricted frequency, no limit for average emission.

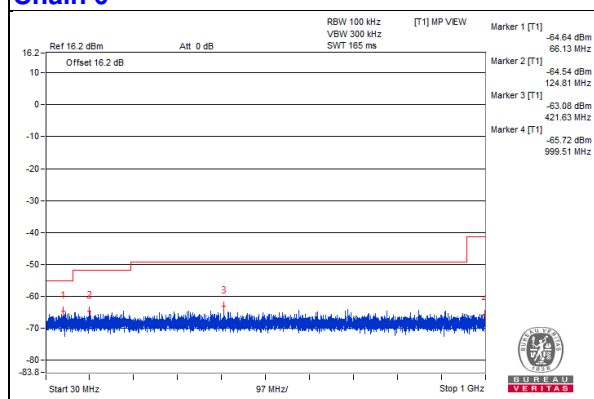
Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	60.91	37.64	#		-64.37	6.75	-57.62
2	171.01	37.2	43.5	-6.3	-64.81	6.75	-58.06
3	857.04	37.64	46	-8.36	-64.37	6.75	-57.62
4	988.11	36.29	54	-17.71	-65.72	6.75	-58.97

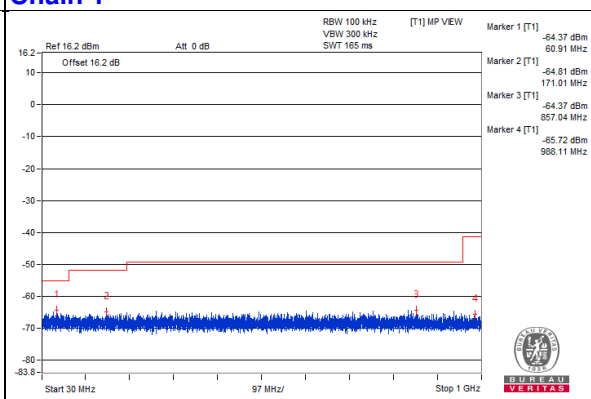
Note :

- Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
- # : Non-restricted frequency, no limit for average emission.

Chain 0



Chain 1



802.11ac (VHT20) – Channel 157

Conducted spurious emission table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	41.76	36.74	#		-65.18	6.66	-58.52
2	197.2	37.38	#		-64.54	6.66	-57.88
3	770.59	38.23	#		-63.69	6.66	-57.03
4	998.42	36.46	54	-17.54	-65.46	6.66	-58.8

Note :

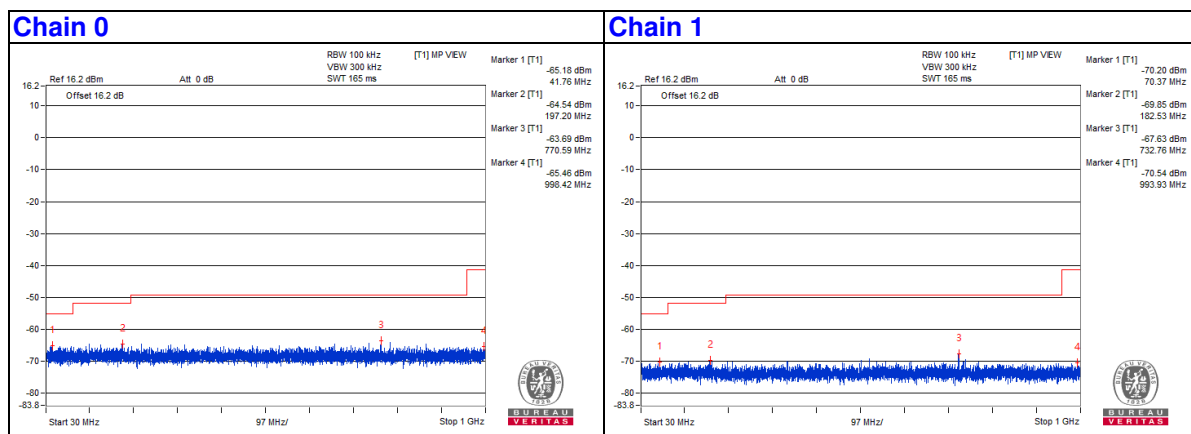
- Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
- # : Non-restricted frequency, no limit for average emission.

Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	70.37	31.81	#		-70.2	6.75	-63.45
2	182.53	32.16	#		-69.85	6.75	-63.1
3	732.76	34.38	#		-67.63	6.75	-60.88
4	993.93	31.47	54	-22.53	-70.54	6.75	-63.79

Note :

- Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
- # : Non-restricted frequency, no limit for average emission.



Note: Choose worse case from above and set RBW/VBW=120kHz/1MHz to verification.

802.11ac (VHT40) – Channel 62

Conducted spurious emission table

Chain 0

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	73.28	36.33	40	-3.67	-65.59	6.66	-58.93
2	189.68	37.19	#		-64.73	6.66	-58.07
3	747.07	39.15	#		-62.77	6.66	-56.11
4	995.39	38.36	54	-15.64	-63.56	6.66	-56.9

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. # : Non-restricted frequency, no limit for average emission.

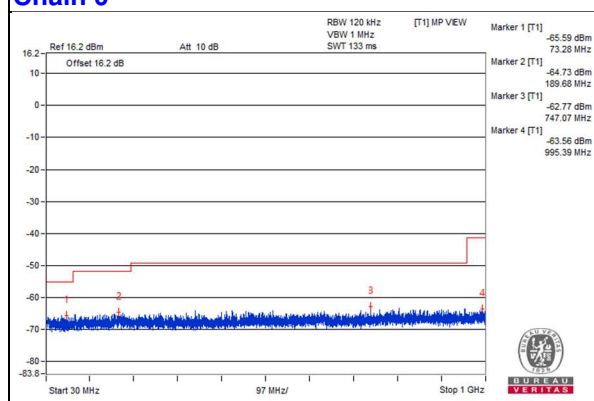
Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	44.91	37.34	#		-64.67	6.75	-57.92
2	156.22	37.58	#		-64.43	6.75	-57.68
3	885.29	40.06	46	-5.94	-61.95	6.75	-55.2
4	982.66	38.39	54	-15.61	-63.62	6.75	-56.87

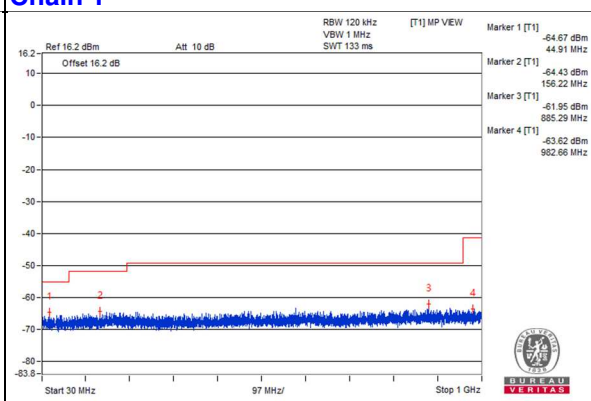
Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
3. # : Non-restricted frequency, no limit for average emission.

Chain 0



Chain 1



4.1.8.2 Test Results (Mode 2)

Above 1GHz Data

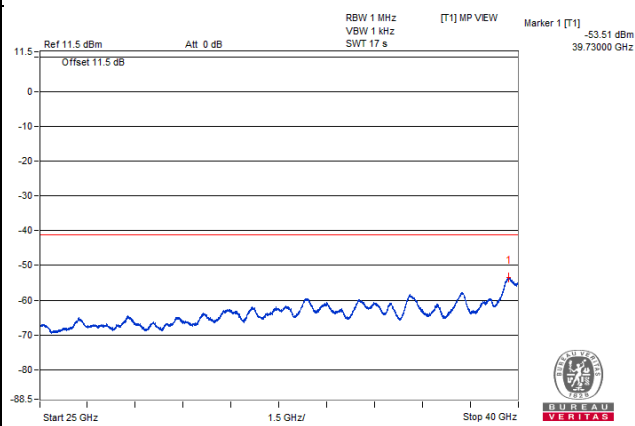
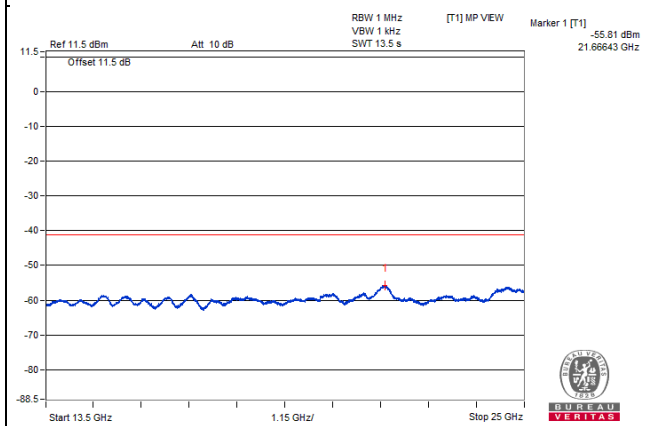
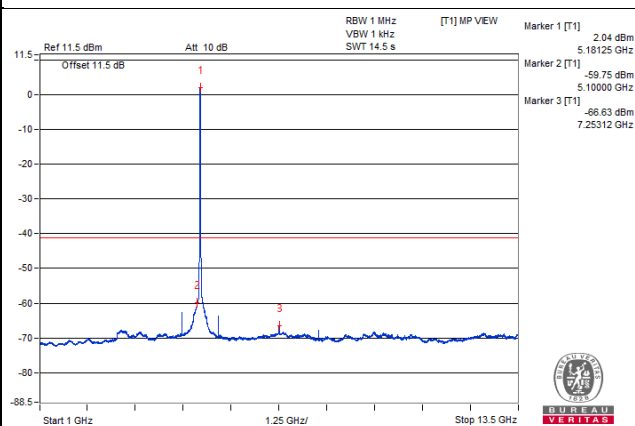
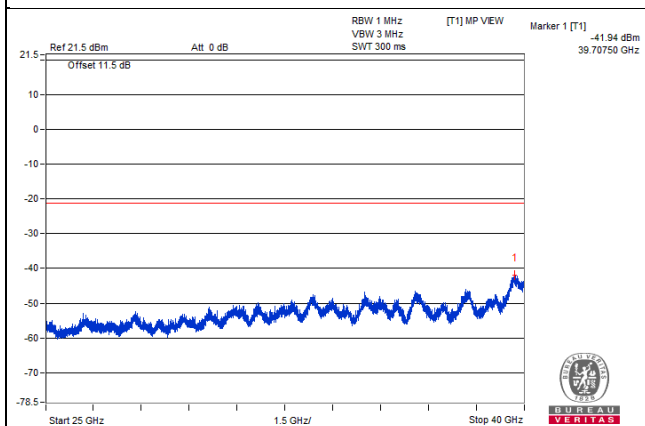
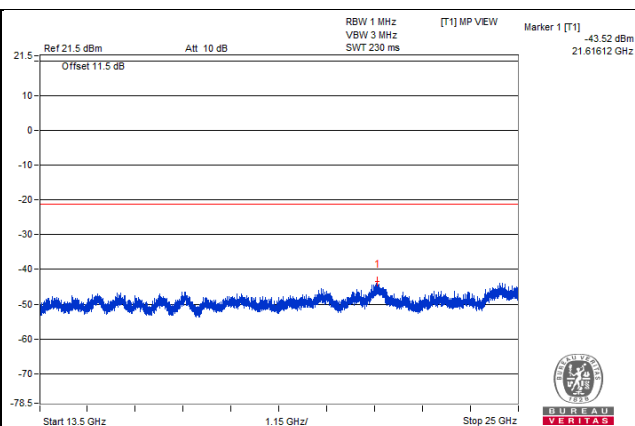
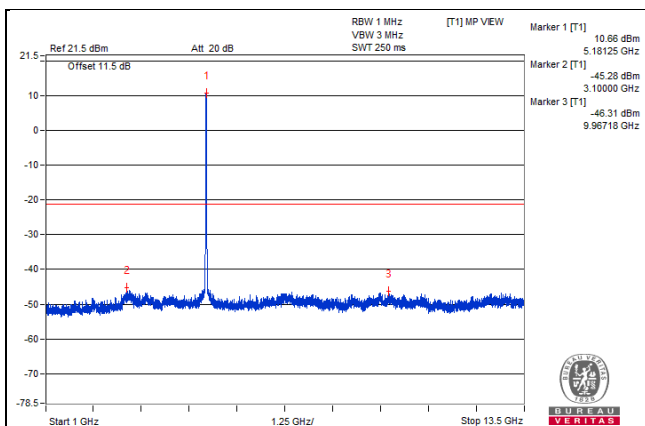
802.11a - Channel 36

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	5181.25 PK	109.57	*		10.66	3.65	14.31
2	3100 PK	53.63	68.2	-14.57	-45.28	3.65	-41.63
3	9967.18 PK	52.6	68.2	-15.6	-46.31	3.65	-42.66
4	21616.12 PK	55.39	68.2	-12.81	-43.52	3.65	-39.87
5	39707.5 PK	56.97	74	-17.03	-41.94	3.65	-38.29
5	5181.25 AV	100.95	*		2.04	3.65	5.69
5	5100 AV	39.16	54	-14.84	-59.75	3.65	-56.1
6	7253.12 AV	32.28	54	-21.72	-66.63	3.65	-62.98
7	21666.43 AV	43.1	#		-55.81	3.65	-52.16
8	39730 AV	45.4	54	-8.6	-53.51	3.65	-49.86

Note :

1. Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

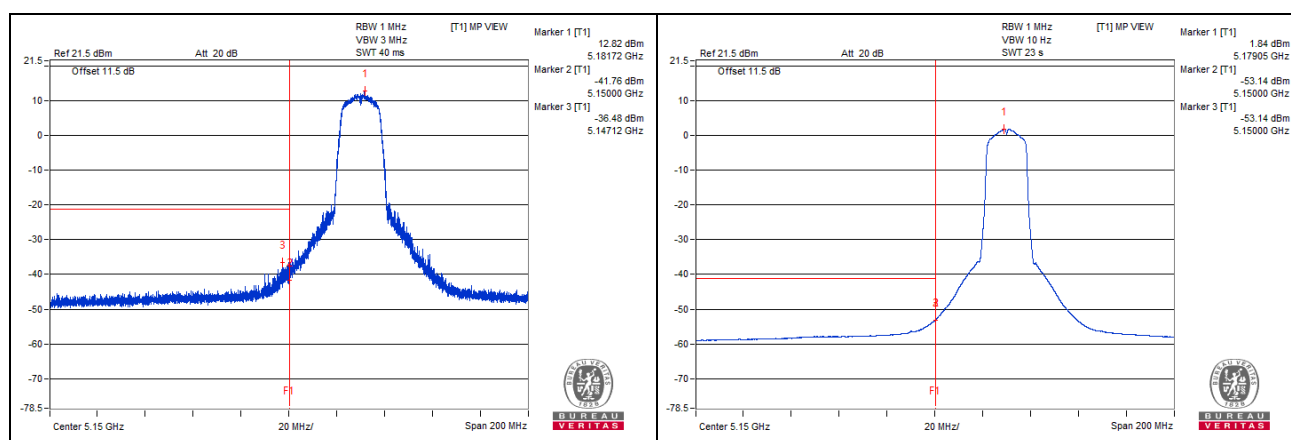


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5181.72 PK	111.51	*		12.82	3.43	16.25
2	5150 PK	56.93	74	-17.07	-41.76	3.43	-38.33
3	5147.12 PK	62.21	74	-11.79	-36.48	3.43	-33.05
4	5179.05 AV	100.53	*		1.84	3.43	5.27
5	5150 AV	45.55	54	-8.45	-53.14	3.43	-49.71

Note :

- Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- * : Fundamental frequency, the limit was restricted at the output power.



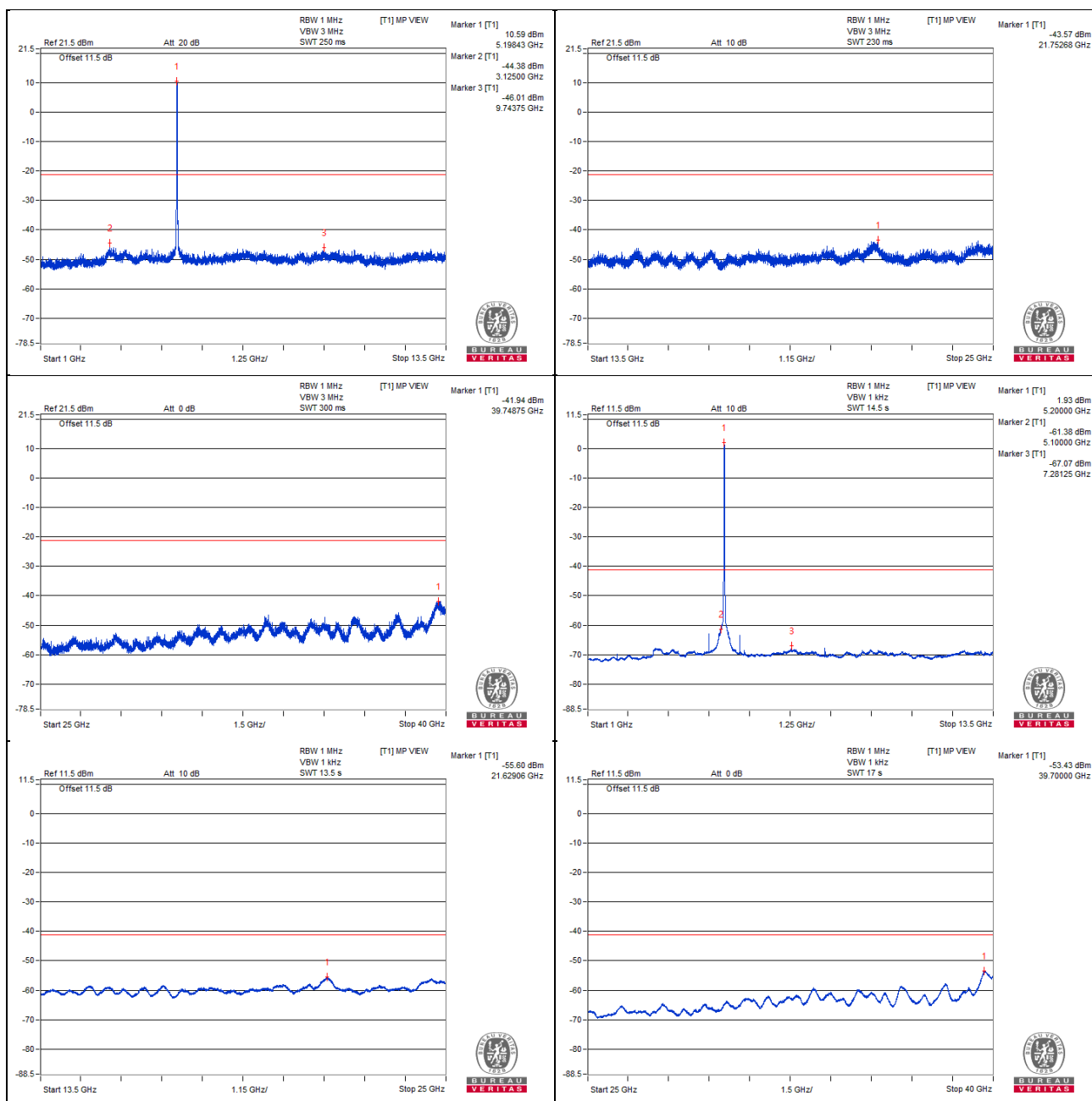
802.11a - Channel 40

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	5198.43 PK	109.5	*		10.59	3.65	14.24
2	3125 PK	54.53	68.2	-13.67	-44.38	3.65	-40.73
3	9743.75 PK	52.9	68.2	-15.3	-46.01	3.65	-42.36
4	21752.68 PK	55.34	68.2	-12.86	-43.57	3.65	-39.92
5	39748.75 PK	56.97	74	-17.03	-41.94	3.65	-38.29
6	5200 AV	100.84	*		1.93	3.65	5.58
7	5100 AV	37.53	54	-16.47	-61.38	3.65	-57.73
8	7281.25 AV	31.84	54	-22.16	-67.07	3.65	-63.42
9	21629.06 AV	43.31	#		-55.6	3.65	-51.95
10	39700 AV	45.48	54	-8.52	-53.43	3.65	-49.78

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

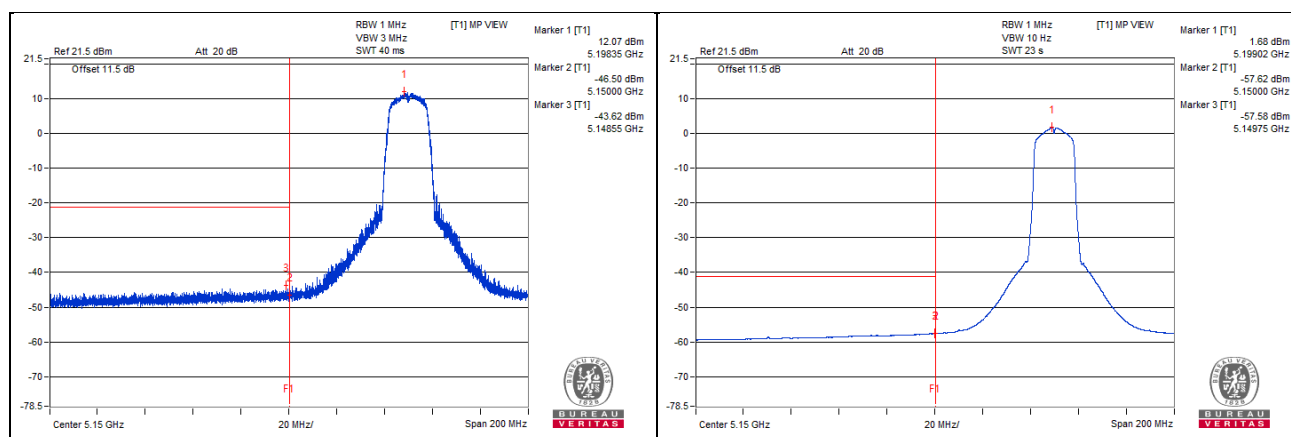


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5198.35 PK	110.76	*		12.07	3.43	15.5
2	5150 PK	52.19	74	-21.81	-46.5	3.43	-43.07
3	5148.55 PK	55.07	74	-18.93	-43.62	3.43	-40.19
4	5199.02 AV	100.37	*		1.68	3.43	5.11
5	5150 AV	41.07	54	-12.93	-57.62	3.43	-54.19
6	5149.75 AV	41.11	54	-12.89	-57.58	3.43	-54.15

Note :

1. Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.



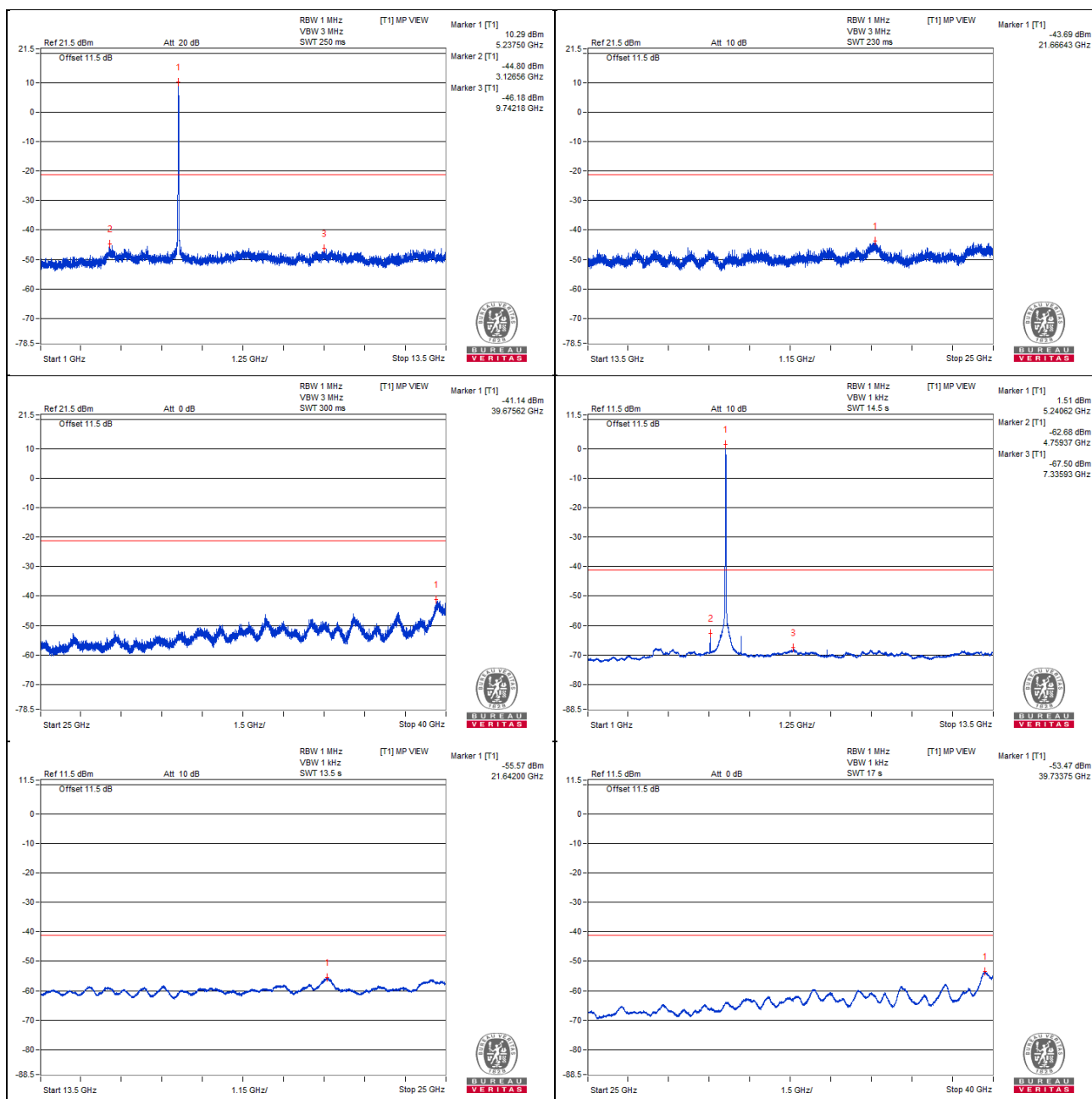
802.11a - Channel 48

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	5237.5 PK	109.2	*		10.29	3.65	13.94
2	3126.56 PK	54.11	68.2	-14.09	-44.8	3.65	-41.15
3	9742.18 PK	52.73	68.2	-15.47	-46.18	3.65	-42.53
4	21666.43 PK	55.22	68.2	-12.98	-43.69	3.65	-40.04
5	39675.62 PK	57.77	74	-16.23	-41.14	3.65	-37.49
6	5240.62 AV	100.42	*		1.51	3.65	5.16
7	4759.37 AV	36.23	54	-17.77	-62.68	3.65	-59.03
8	7335.93 AV	31.41	54	-22.59	-67.5	3.65	-63.85
9	21642 AV	43.34	#		-55.57	3.65	-51.92
10	39733.75 AV	45.44	54	-8.56	-53.47	3.65	-49.82

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

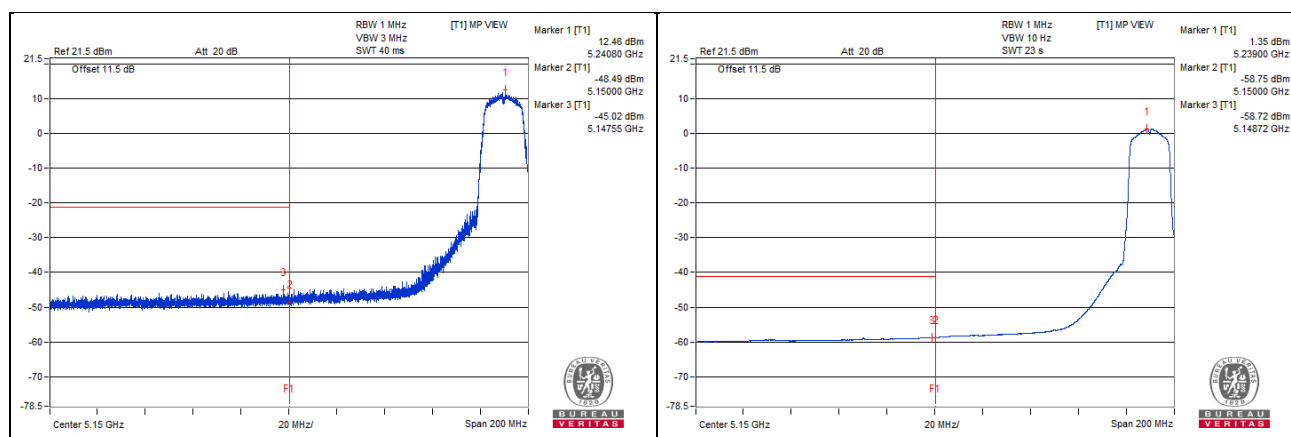


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5240.8 PK	111.15	*		12.46	3.43	15.89
2	5150 PK	50.2	74	-23.8	-48.49	3.43	-45.06
3	5147.55 PK	53.67	74	-20.33	-45.02	3.43	-41.59
4	5239 AV	100.04	*		1.35	3.43	4.78
5	5150 AV	39.94	54	-14.06	-58.75	3.43	-55.32
6	5148.72 AV	39.97	54	-14.03	-58.72	3.43	-55.29

Note :

1. Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.



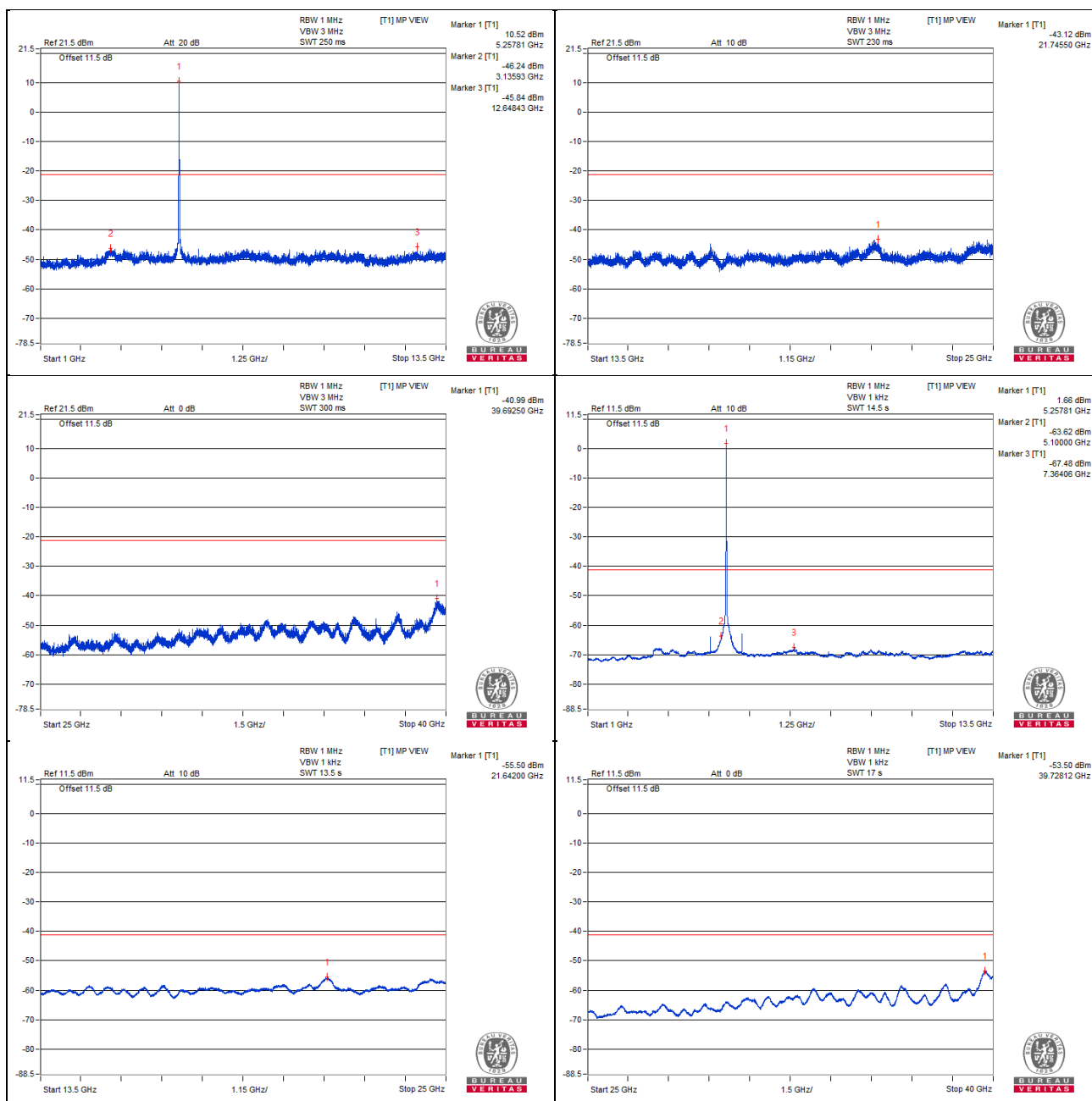
802.11a - Channel 52

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	5257.81 PK	109.43	*		10.52	3.65	14.17
2	3135.93 PK	52.67	68.2	-15.53	-46.24	3.65	-42.59
3	12648.43 PK	53.07	74	-20.93	-45.84	3.65	-42.19
4	21745.5 PK	55.79	68.2	-12.41	-43.12	3.65	-39.47
5	39692.5 PK	57.92	74	-16.08	-40.99	3.65	-37.34
6	5257.81 AV	100.57	*		1.66	3.65	5.31
7	5100 AV	35.29	54	-18.71	-63.62	3.65	-59.97
8	7364.06 AV	31.43	54	-22.57	-67.48	3.65	-63.83
9	21642 AV	43.41	#		-55.5	3.65	-51.85
10	39728.12 AV	45.41	54	-8.59	-53.5	3.65	-49.85

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

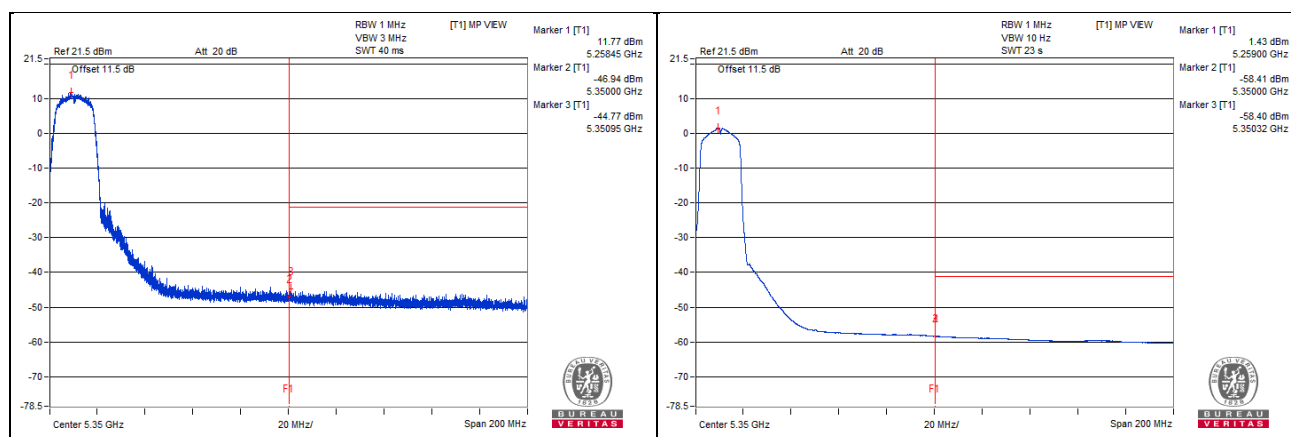


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5258.45 PK	110.68	*		11.77	3.65	15.42
2	5350 PK	51.97	74	-22.03	-46.94	3.65	-43.29
3	5350.95 PK	54.14	74	-19.86	-44.77	3.65	-41.12
4	5259 AV	100.34	*		1.43	3.65	5.08
5	5350 AV	40.5	54	-13.5	-58.41	3.65	-54.76
6	5350.32 AV	40.51	54	-13.49	-58.4	3.65	-54.75

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.



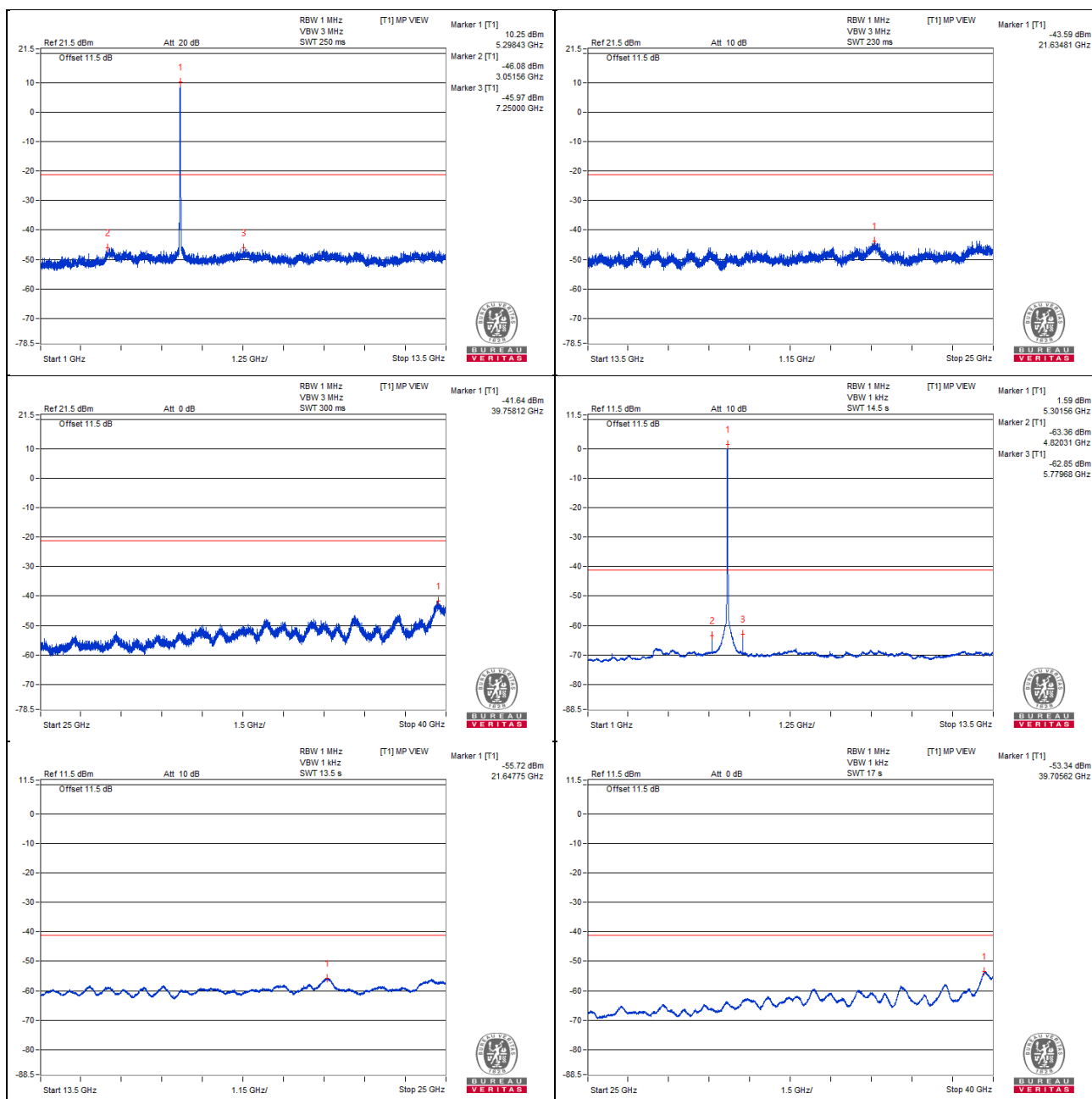
802.11a - Channel 60

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	5298.43 PK	109.16	*		10.25	3.65	13.9
2	3051.56 PK	52.83	68.2	-15.37	-46.08	3.65	-42.43
3	7250 PK	52.94	74	-21.06	-45.97	3.65	-42.32
4	21634.81 PK	55.32	68.2	-12.88	-43.59	3.65	-39.94
5	39758.12 PK	57.27	74	-16.73	-41.64	3.65	-37.99
6	5301.56 AV	100.5	*		1.59	3.65	5.24
7	4820.31 AV	35.55	54	-18.45	-63.36	3.65	-59.71
8	5779.68 AV	36.06	#		-62.85	3.65	-59.2
9	21647.75 AV	43.19	#		-55.72	3.65	-52.07
10	39705.62 AV	45.57	54	-8.43	-53.34	3.65	-49.69

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

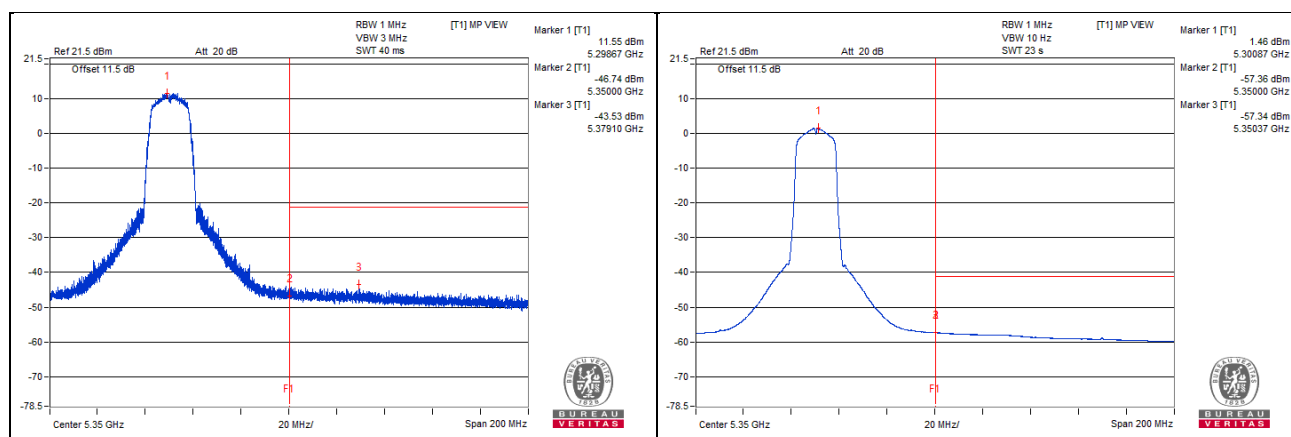


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5298.67 PK	110.46	*		11.55	3.65	15.2
2	5350 PK	52.17	74	-21.83	-46.74	3.65	-43.09
3	5379.1 PK	55.38	74	-18.62	-43.53	3.65	-39.88
4	5300.87 AV	100.37	*		1.46	3.65	5.11
5	5350 AV	41.55	54	-12.45	-57.36	3.65	-53.71
6	5350.37 AV	41.57	54	-12.43	-57.34	3.65	-53.69

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.



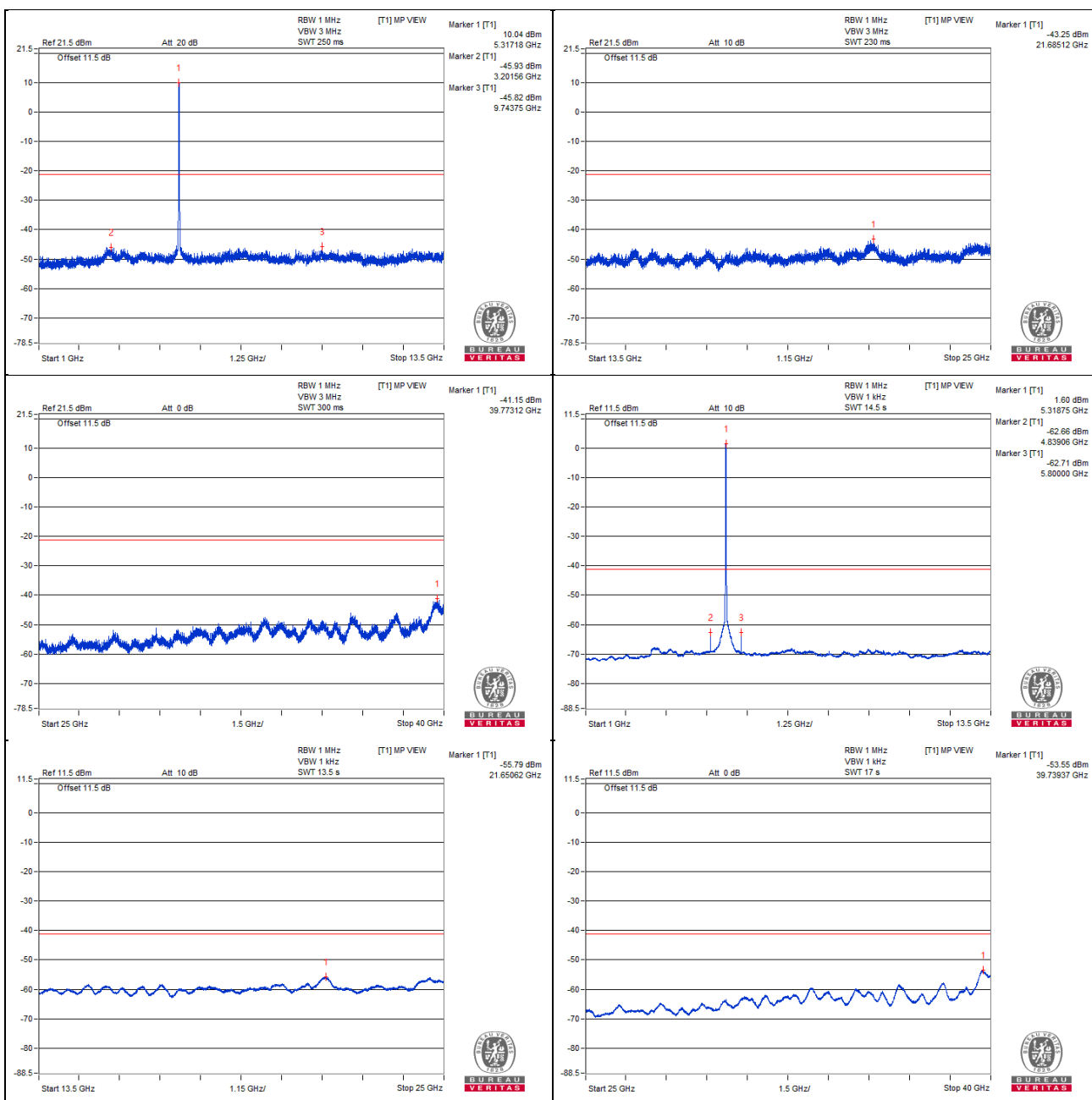
802.11a - Channel 64

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	5317.18 PK	108.95	*		10.04	3.65	13.69
2	3201.56 PK	52.98	68.2	-15.22	-45.93	3.65	-42.28
3	9743.75 PK	53.09	68.2	-15.11	-45.82	3.65	-42.17
4	21685.12 PK	55.66	68.2	-12.54	-43.25	3.65	-39.6
5	39773.12 PK	57.76	74	-16.24	-41.15	3.65	-37.5
6	5318.75 AV	100.51	*		1.6	3.65	5.25
7	4839.06 AV	36.25	54	-17.75	-62.66	3.65	-59.01
8	5800 AV	36.2	#		-62.71	3.65	-59.06
9	21650.62 AV	43.12	#		-55.79	3.65	-52.14
10	39739.37 AV	45.36	54	-8.64	-53.55	3.65	-49.9

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

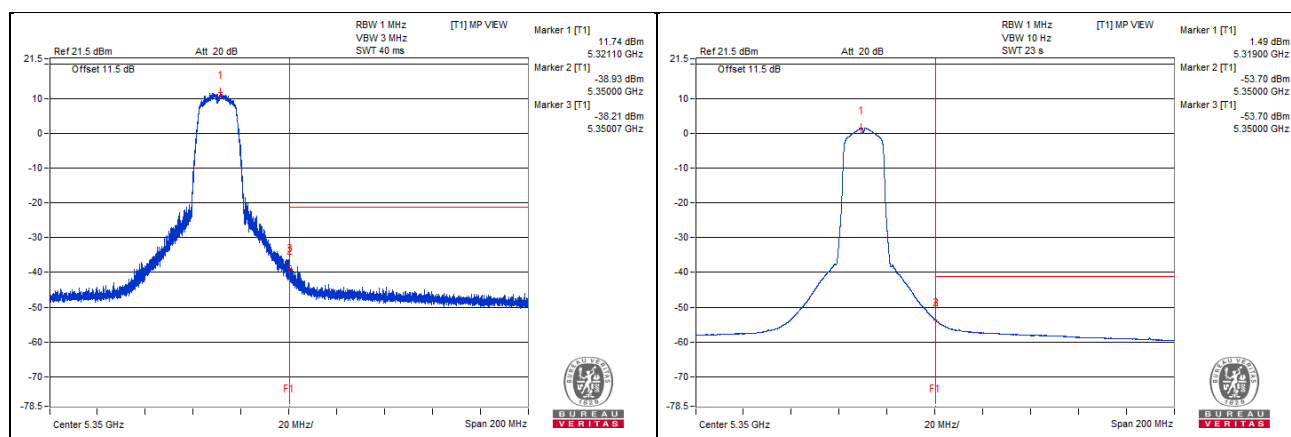


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5321.1 PK	110.65	*		11.74	3.65	15.39
2	5350 PK	59.98	74	-14.02	-38.93	3.65	-35.28
3	5350.07 PK	60.7	74	-13.3	-38.21	3.65	-34.56
4	5319 AV	100.4	*		1.49	3.65	5.14
5	5350 AV	45.21	54	-8.79	-53.7	3.65	-50.05
6	5350 AV	45.21	54	-8.79	-53.7	3.65	-50.05

Note :

1. Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.



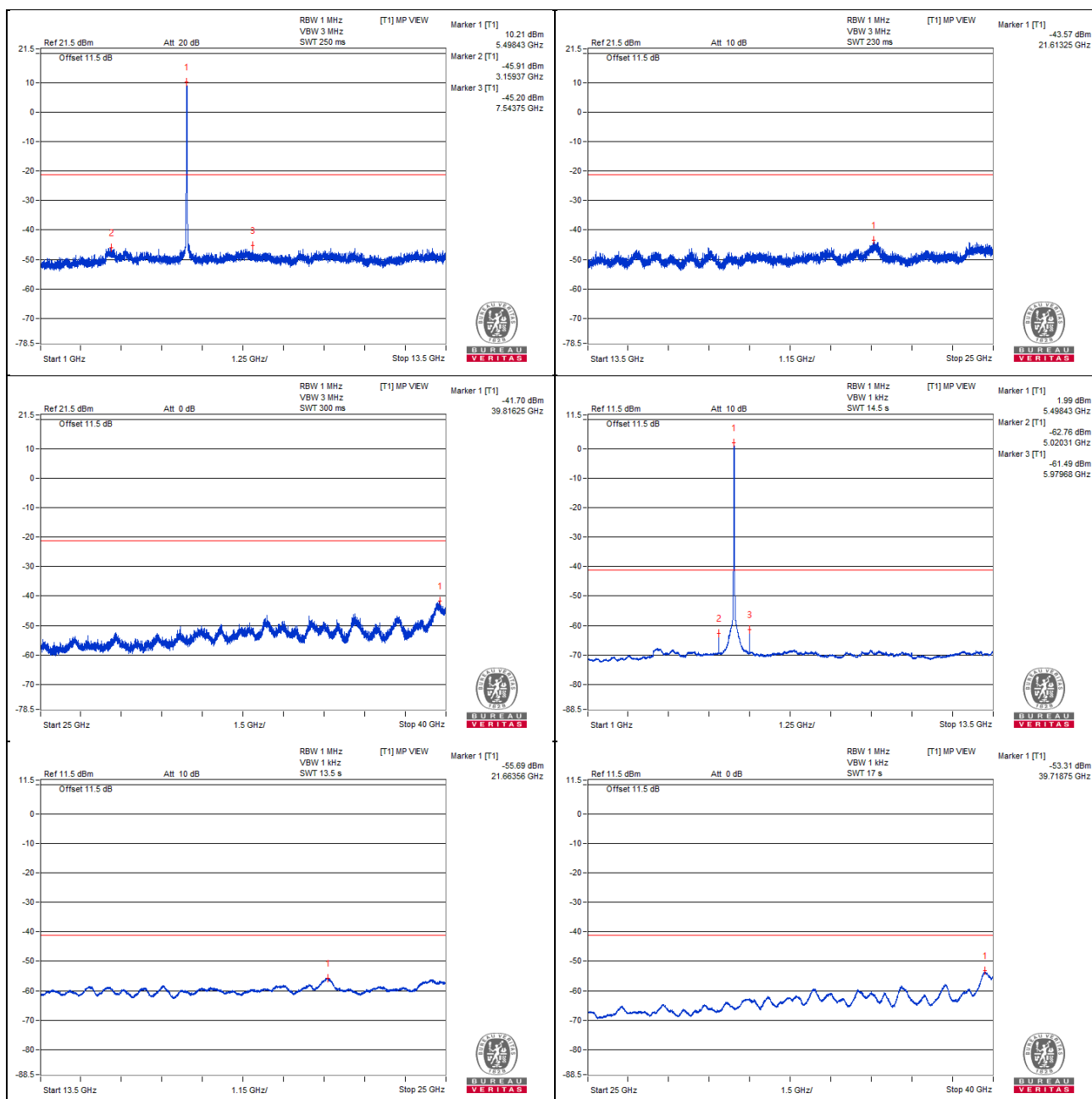
802.11a - Channel 100

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	5498.43 PK	109.12	*		10.21	3.65	13.86
2	3159.37 PK	53	68.2	-15.2	-45.91	3.65	-42.26
3	7543.75 PK	53.71	74	-20.29	-45.2	3.65	-41.55
4	21613.25 PK	55.34	68.2	-12.86	-43.57	3.65	-39.92
5	39816.25 PK	57.21	74	-16.79	-41.7	3.65	-38.05
6	5498.43 AV	100.9	*		1.99	3.65	5.64
7	5020.31 AV	36.15	54	-17.85	-62.76	3.65	-59.11
8	5979.68 AV	37.42	#		-61.49	3.65	-57.84
9	21663.56 AV	43.22	#		-55.69	3.65	-52.04
10	39718.75 AV	45.6	54	-8.4	-53.31	3.65	-49.66

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

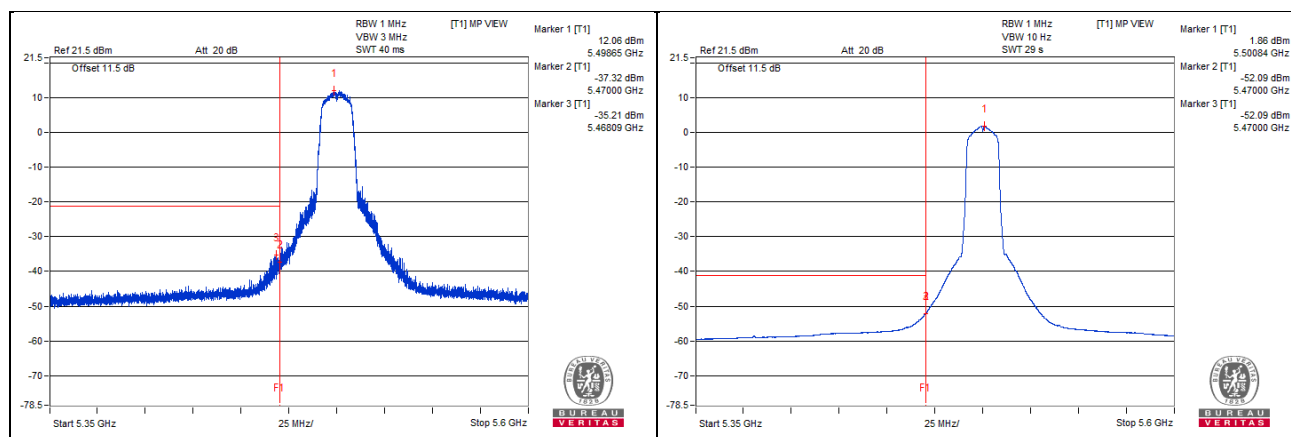


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5498.65 PK	110.54	*		12.06	3.22	15.28
2	5470 PK	61.16	68.2	-7.04	-37.32	3.22	-34.1
3	5468.09 PK	63.27	68.2	-4.93	-35.21	3.22	-31.99
4	5500.84 AV	100.34	*		1.86	3.22	5.08
5	5470 AV	46.39	#		-52.09	3.22	-48.87
6	5470 AV	46.39	#		-52.09	3.22	-48.87

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



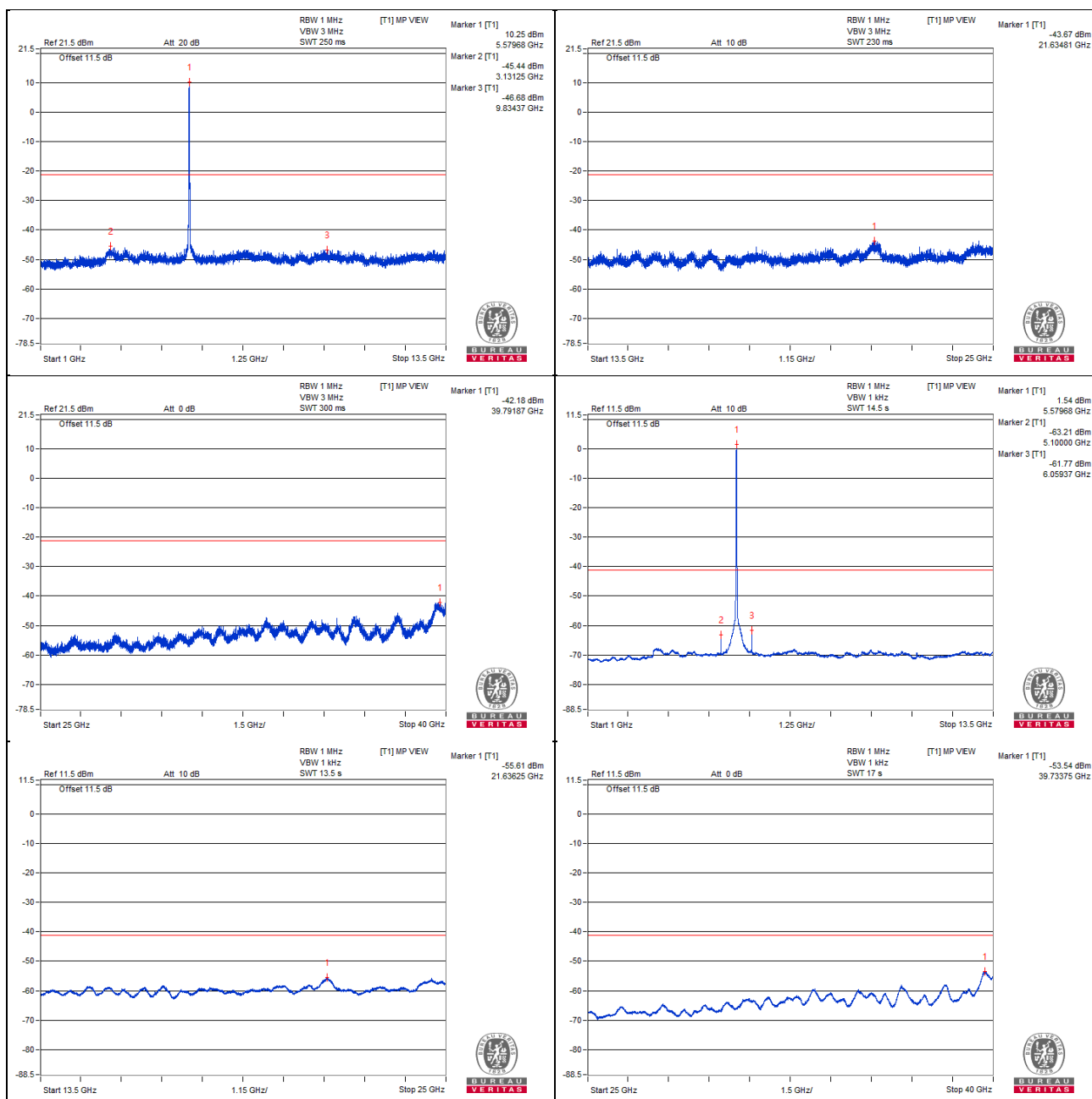
802.11a - Channel 116

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	5579.68 PK	109.16	*		10.25	3.65	13.9
2	3131.25 PK	53.47	68.2	-14.73	-45.44	3.65	-41.79
3	9834.37 PK	52.23	68.2	-15.97	-46.68	3.65	-43.03
4	21634.81 PK	55.24	68.2	-12.96	-43.67	3.65	-40.02
5	39791.87 PK	56.73	74	-17.27	-42.18	3.65	-38.53
6	5579.68 AV	100.45	*		1.54	3.65	5.19
7	5100 AV	35.7	54	-18.3	-63.21	3.65	-59.56
8	6059.37 AV	37.14	#		-61.77	3.65	-58.12
9	21636.25 AV	43.3	#		-55.61	3.65	-51.96
10	39733.75 AV	45.37	54	-8.63	-53.54	3.65	-49.89

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

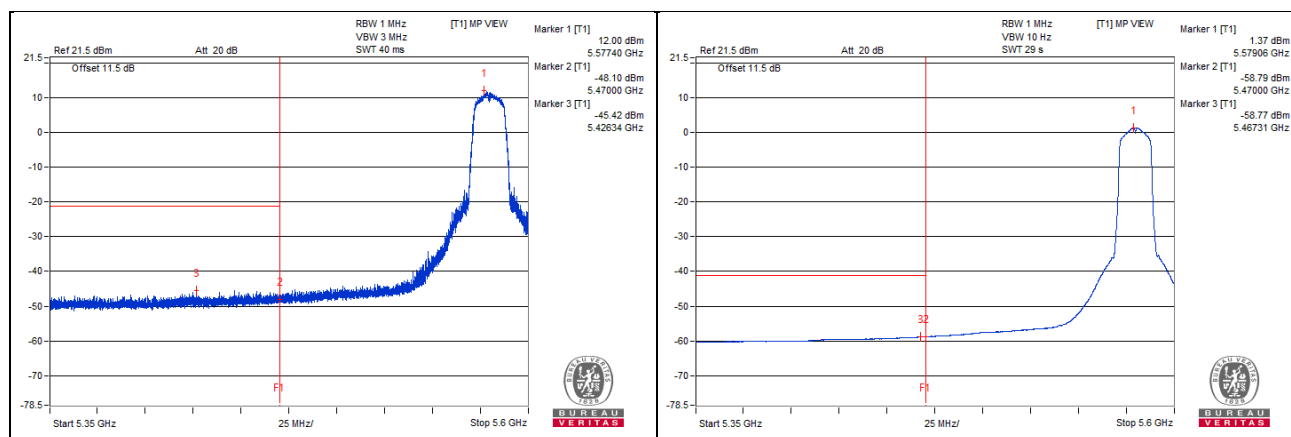


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5577.4 PK	110.48	*		12	3.22	15.22
2	5470 PK	50.38	68.2	-17.82	-48.1	3.22	-44.88
3	5426.34 PK	53.06	74	-20.94	-45.42	3.22	-42.2
4	5579.06 AV	99.85	*		1.37	3.22	4.59
5	5470 AV	39.69	#		-58.79	3.22	-55.57
6	5467.31 AV	39.71	#		-58.77	3.22	-55.55

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



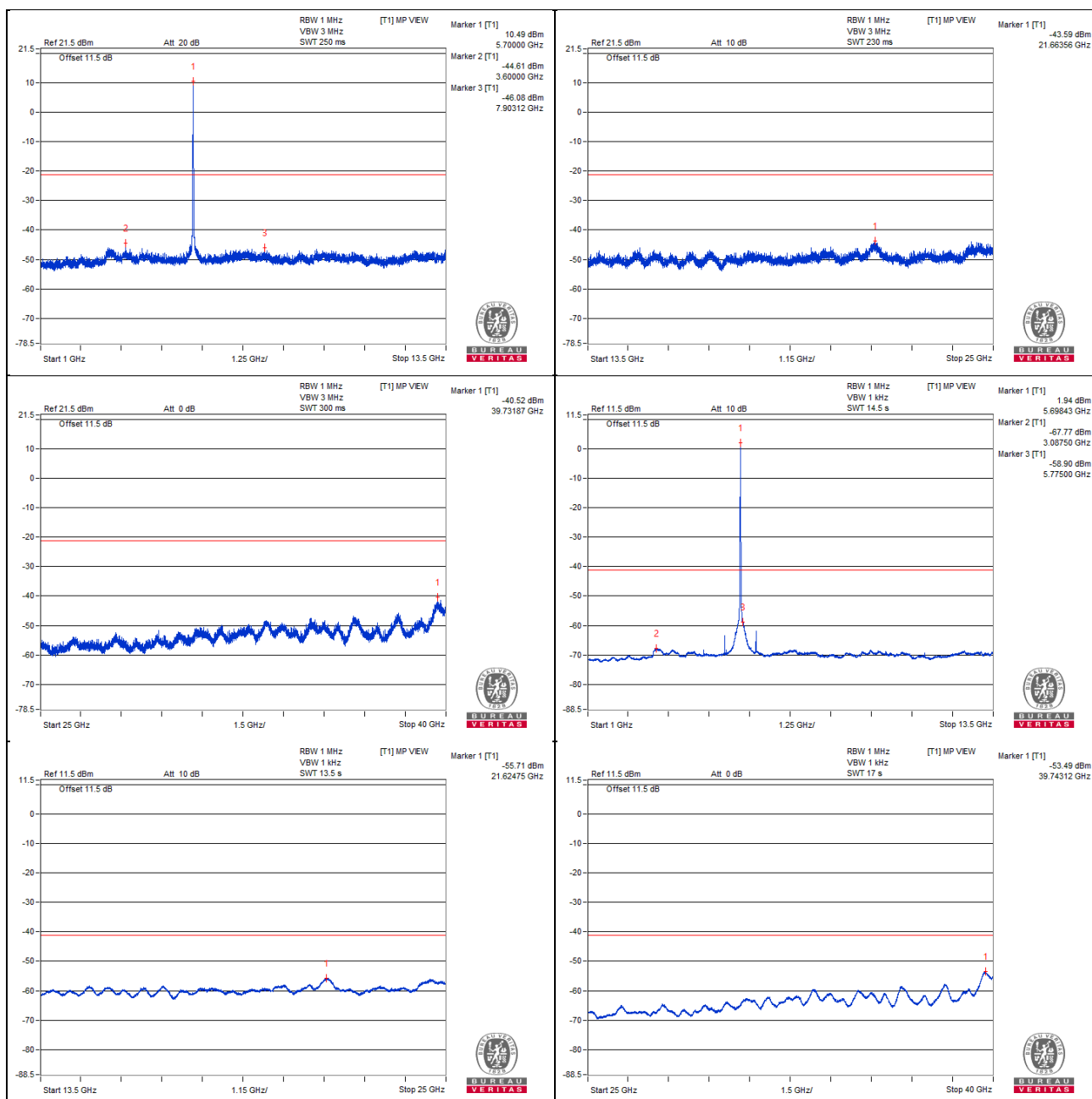
802.11a - Channel 140

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	5700 PK	109.4	*		10.49	3.65	14.14
2	3600 PK	54.3	74	-19.7	-44.61	3.65	-40.96
3	7903.12 PK	52.83	68.2	-15.37	-46.08	3.65	-42.43
4	21663.56 PK	55.32	68.2	-12.88	-43.59	3.65	-39.94
5	39731.87 PK	58.39	74	-15.61	-40.52	3.65	-36.87
6	5698.43 AV	100.85	*		1.94	3.65	5.59
7	3087.5 AV	31.14	#		-67.77	3.65	-64.12
8	5775 AV	40.01	#		-58.9	3.65	-55.25
9	21624.75 AV	43.2	#		-55.71	3.65	-52.06
10	39743.12 AV	45.42	54	-8.58	-53.49	3.65	-49.84

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

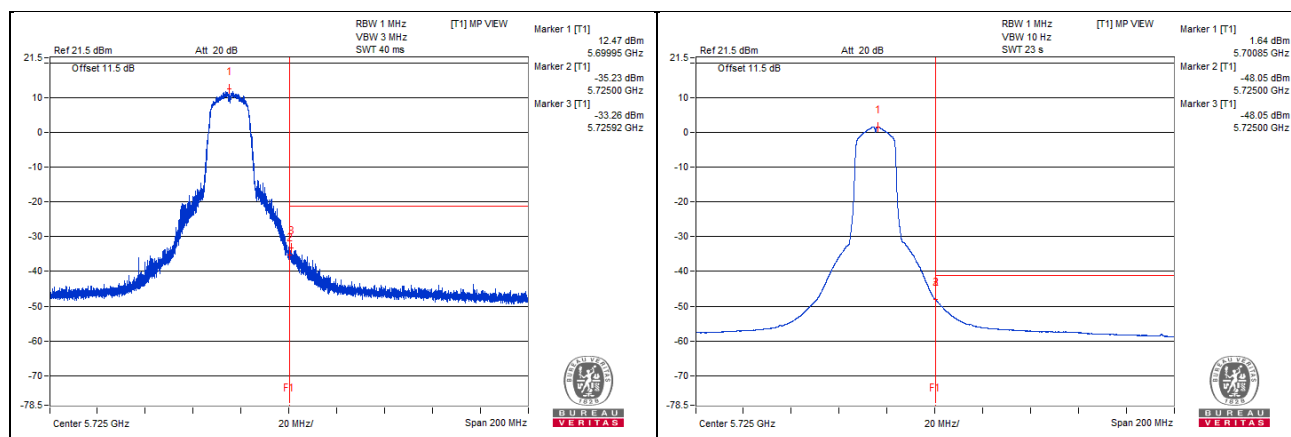


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5699.95 PK	110.95	*		12.47	3.22	15.69
2	5725 PK	63.25	68.2	-4.95	-35.23	3.22	-32.01
3	5725.92 PK	65.22	68.2	-2.98	-33.26	3.22	-30.04
4	5700.85 AV	100.12	*		1.64	3.22	4.86
5	5725 AV	50.43	#		-48.05	3.22	-44.83
6	5725 AV	50.43	#		-48.05	3.22	-44.83

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



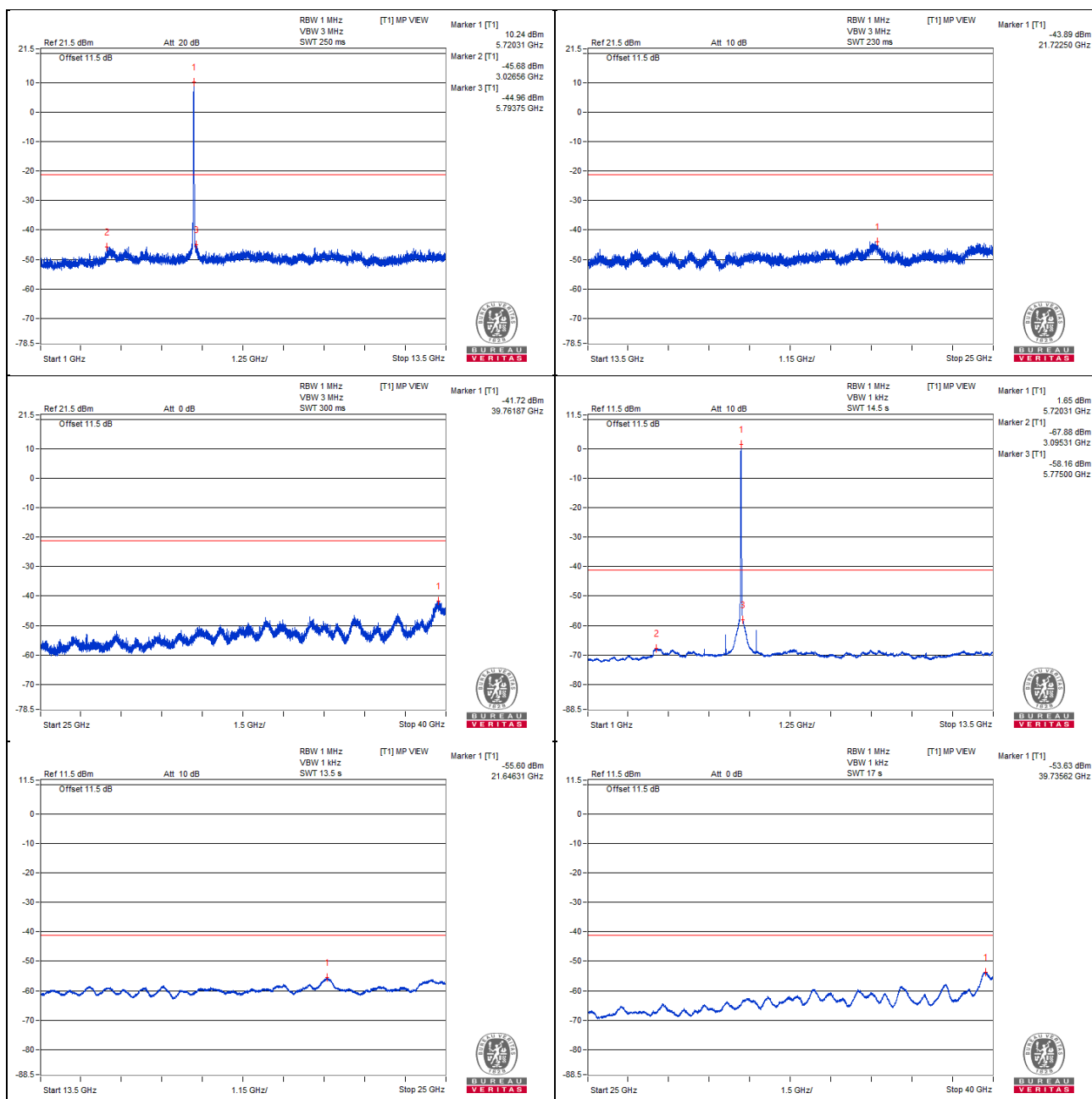
802.11a - Channel 144

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	5720.31 PK	109.15	*		10.24	3.65	13.89
2	3026.56 PK	53.23	68.2	-14.97	-45.68	3.65	-42.03
3	5793.75 PK	53.95	68.2	-14.25	-44.96	3.65	-41.31
4	21722.5 PK	55.02	68.2	-13.18	-43.89	3.65	-40.24
5	39761.87 PK	57.19	74	-16.81	-41.72	3.65	-38.07
6	5720.31 AV	100.56	*		1.65	3.65	5.3
7	3095.31 AV	31.03	#		-67.88	3.65	-64.23
8	5775 AV	40.75	#		-58.16	3.65	-54.51
9	21646.31 AV	43.31	#		-55.6	3.65	-51.95
10	39735.62 AV	45.28	54	-8.72	-53.63	3.65	-49.98

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

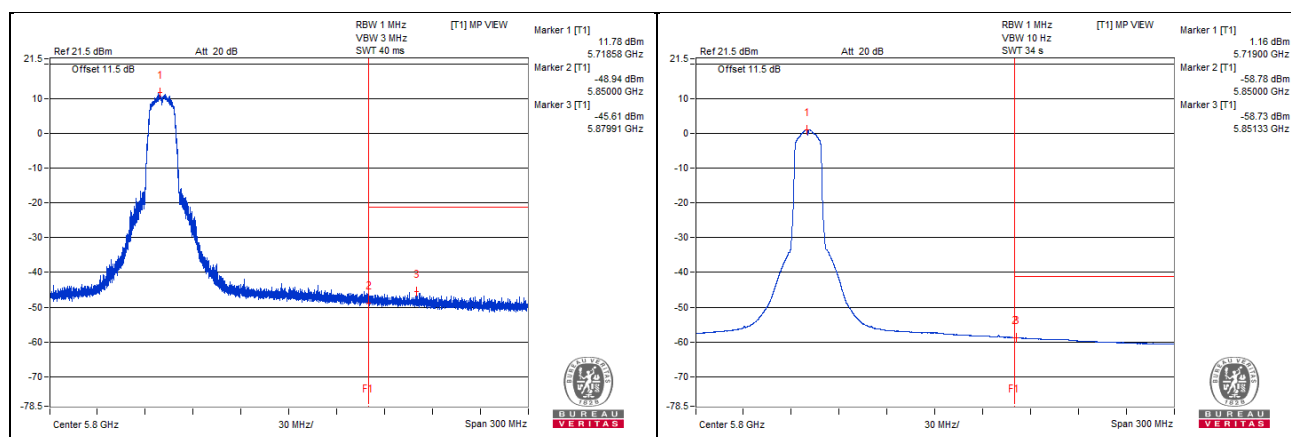


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5718.58 PK	110.56	*		11.78	3.52	15.3
2	5850 PK	49.84	68.2	-18.36	-48.94	3.52	-45.42
3	5879.91 PK	53.17	68.2	-15.03	-45.61	3.52	-42.09
4	5719 AV	99.94	*		1.16	3.52	4.68
5	5850 AV	40	#		-58.78	3.52	-55.26
6	5851.33 AV	40.05	#		-58.73	3.52	-55.21

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



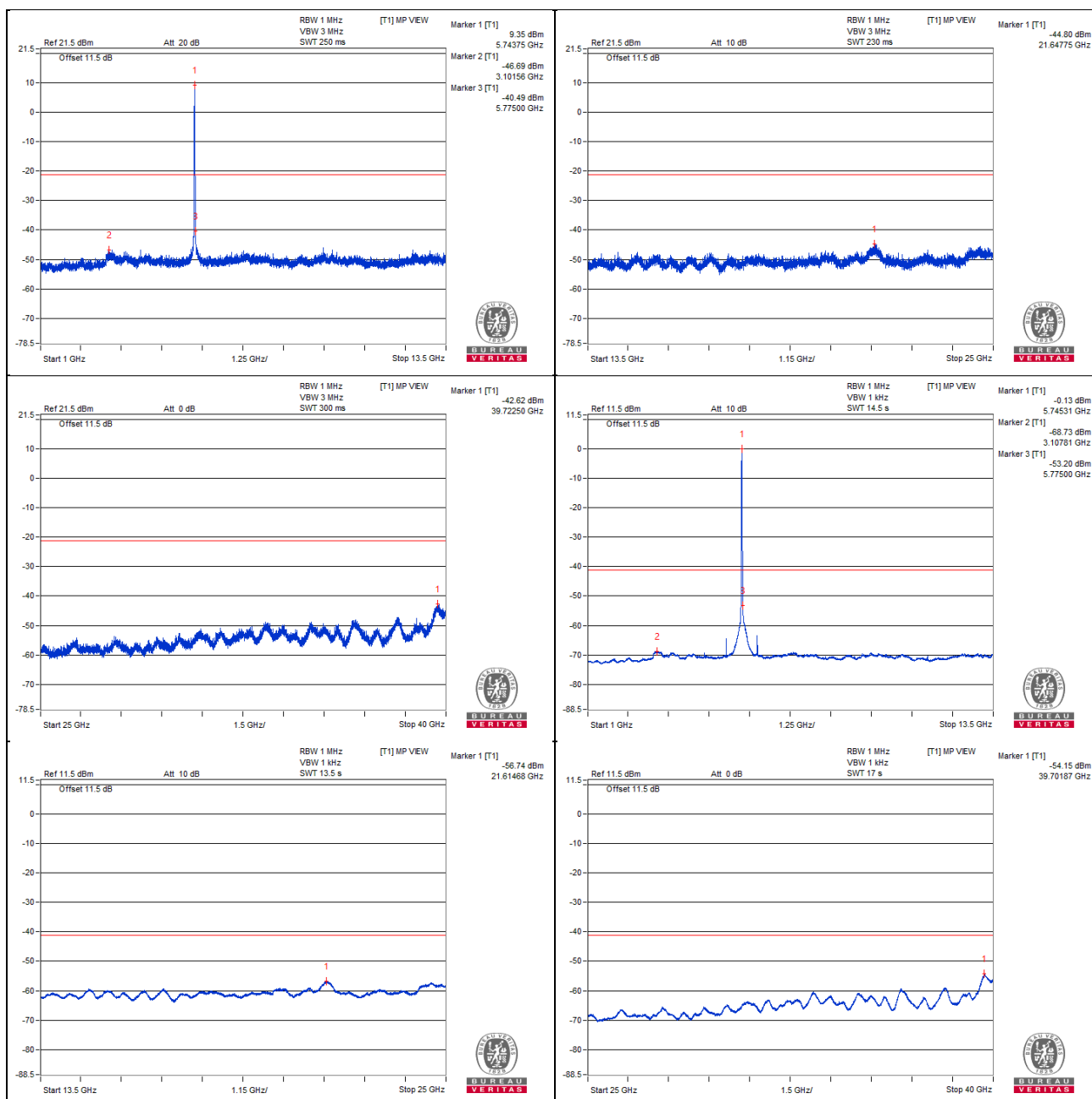
802.11a – Channel 149

Conducted spurious emission table

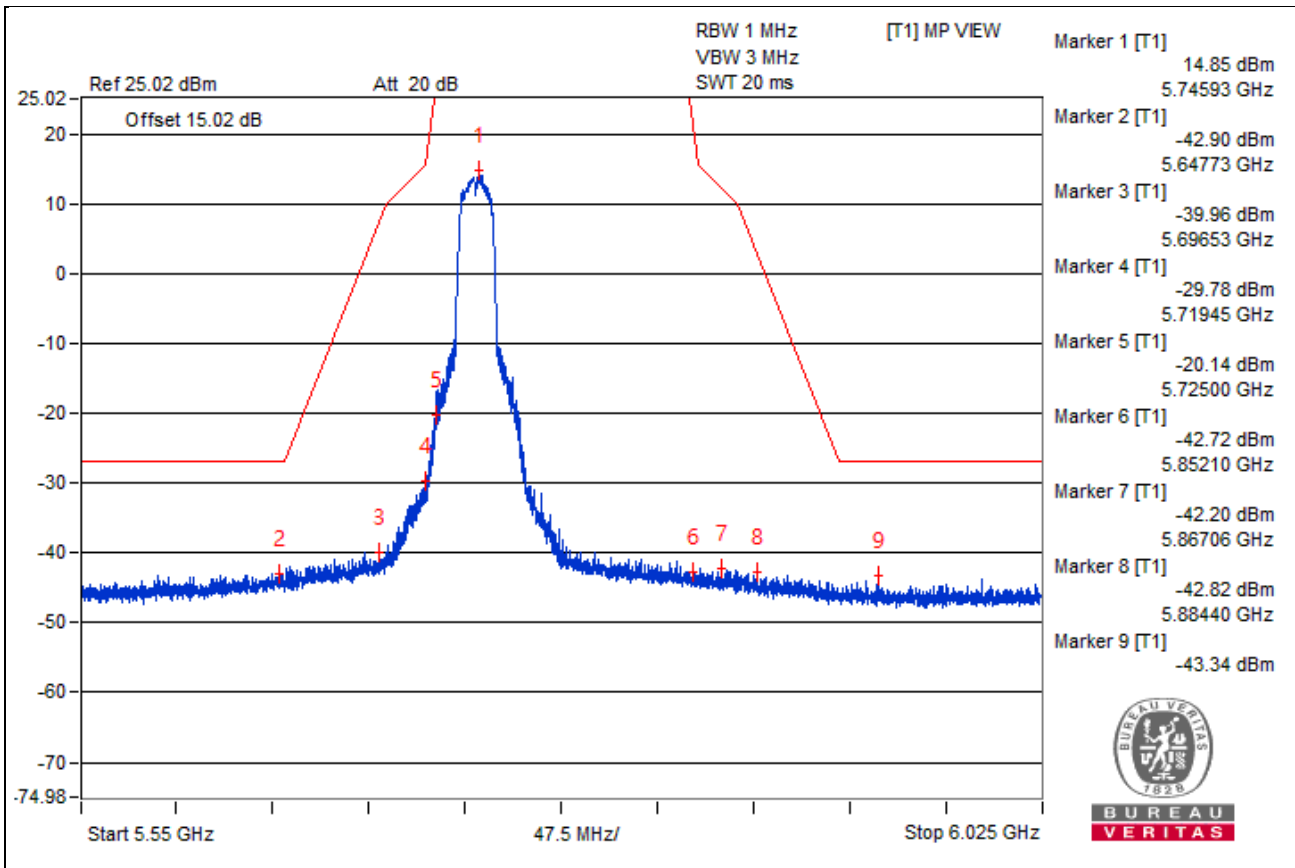
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5743.75 PK	108.26	*		9.35	3.65	13
2	3101.56 PK	52.22	68.2	-15.98	-46.69	3.65	-43.04
3	5775 PK	58.42	68.2	-9.78	-40.49	3.65	-36.84
4	21647.75 PK	54.11	68.2	-14.09	-44.8	3.65	-41.15
5	39722.5 PK	56.29	74	-17.71	-42.62	3.65	-38.97
6	5745.31 AV	98.78	*		-0.13	3.65	3.52
7	3107.81 AV	30.18	#		-68.73	3.65	-65.08
8	5775 AV	45.71	#		-53.2	3.65	-49.55
9	21614.68 AV	42.17	#		-56.74	3.65	-53.09
10	39701.87 AV	44.76	54	-9.24	-54.15	3.65	-50.5

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.52 dBi).
2. The test results were EIRP.

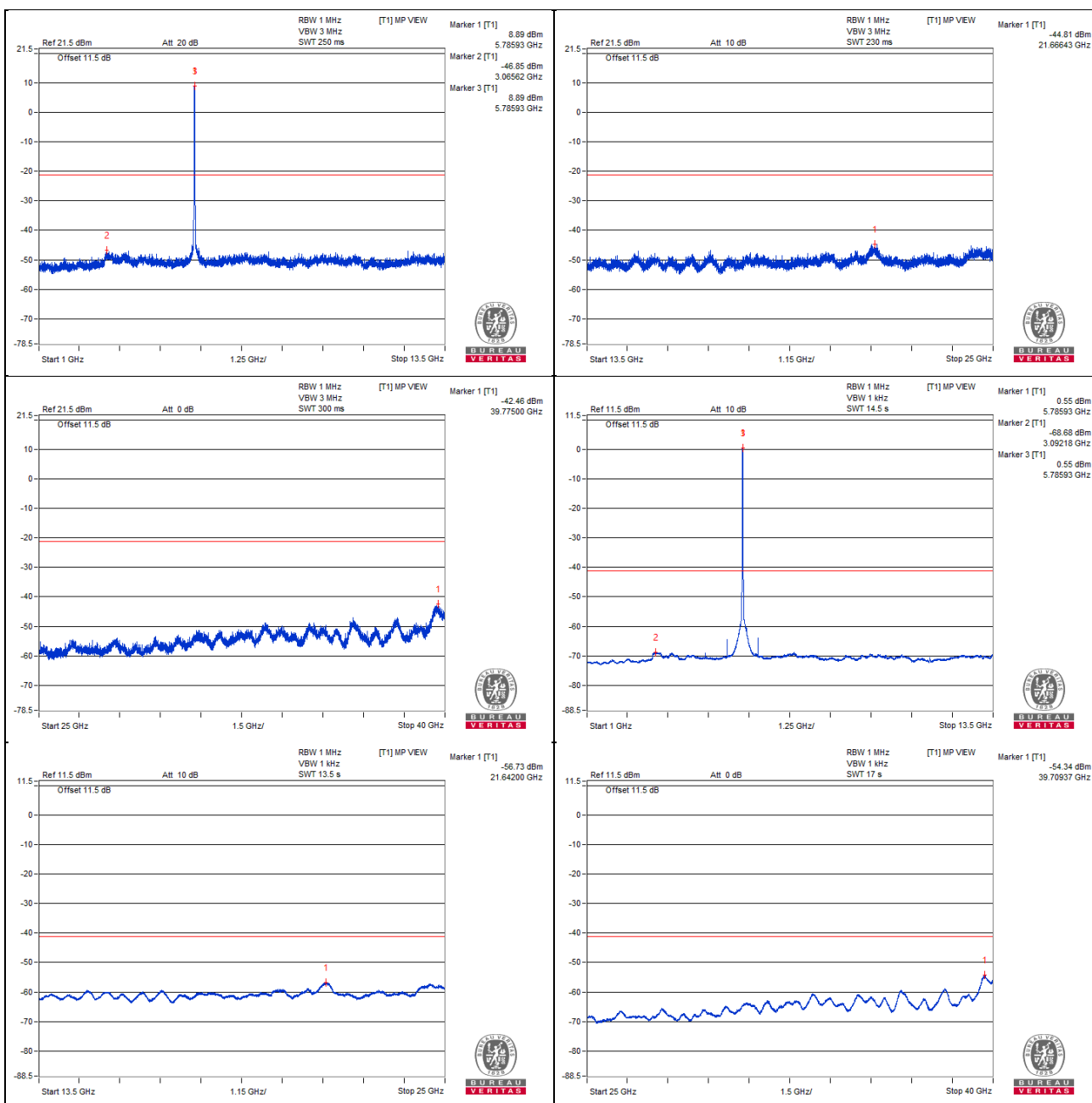
802.11a – Channel 157

Conducted spurious emission table

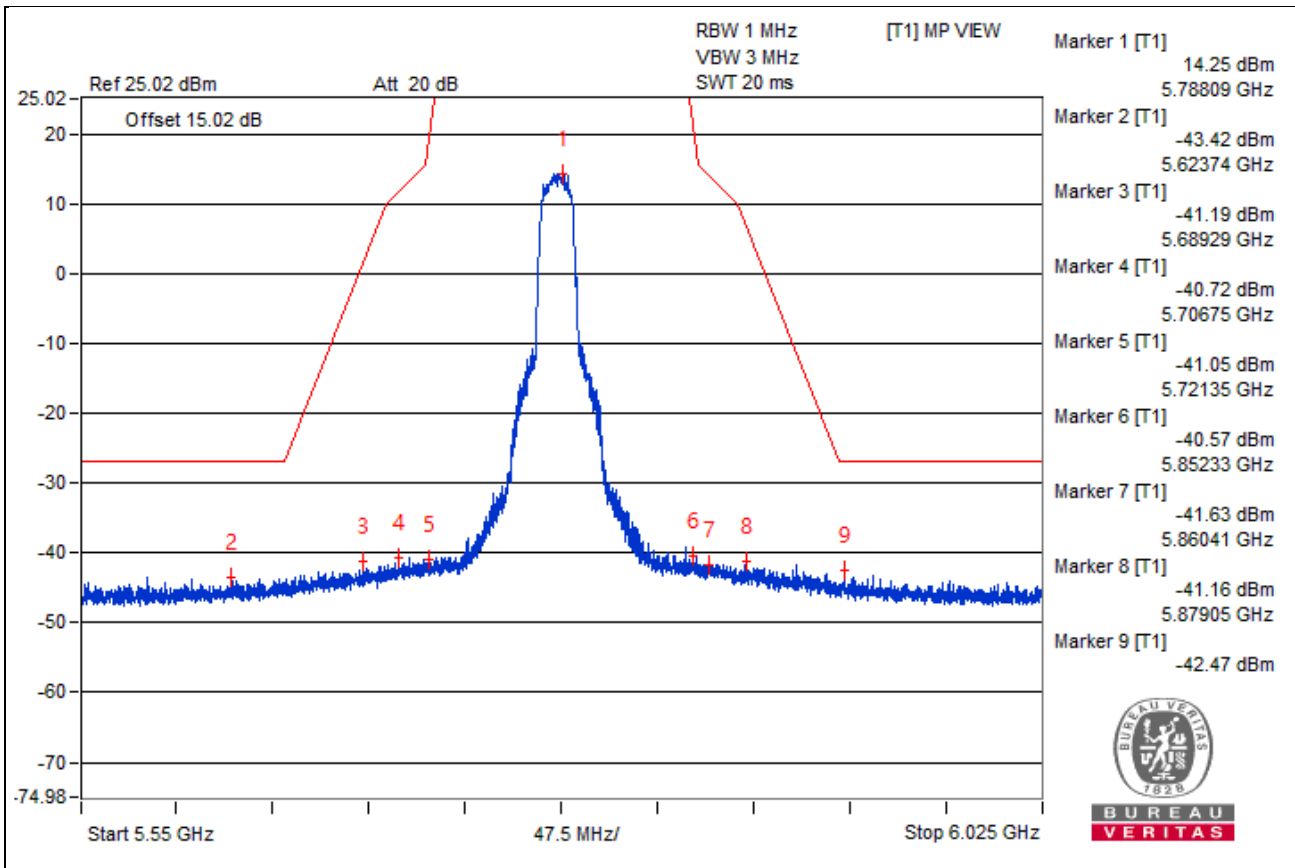
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5785.93 PK	107.8	*		8.89	3.65	12.54
2	3065.62 PK	52.06	68.2	-16.14	-46.85	3.65	-43.2
3	5785.93 PK	107.8	*		8.89	3.65	12.54
4	21666.43 PK	54.1	68.2	-14.1	-44.81	3.65	-41.16
5	39775 PK	56.45	74	-17.55	-42.46	3.65	-38.81
6	5785.93 AV	99.46	*		0.55	3.65	4.2
7	3092.18 AV	30.23	#		-68.68	3.65	-65.03
8	5785.93 AV	99.46	*		0.55	3.65	4.2
9	21642 AV	42.18	#		-56.73	3.65	-53.08
10	39709.37 AV	44.57	54	-9.43	-54.34	3.65	-50.69

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.52 dBi).
2. The test results were EIRP.

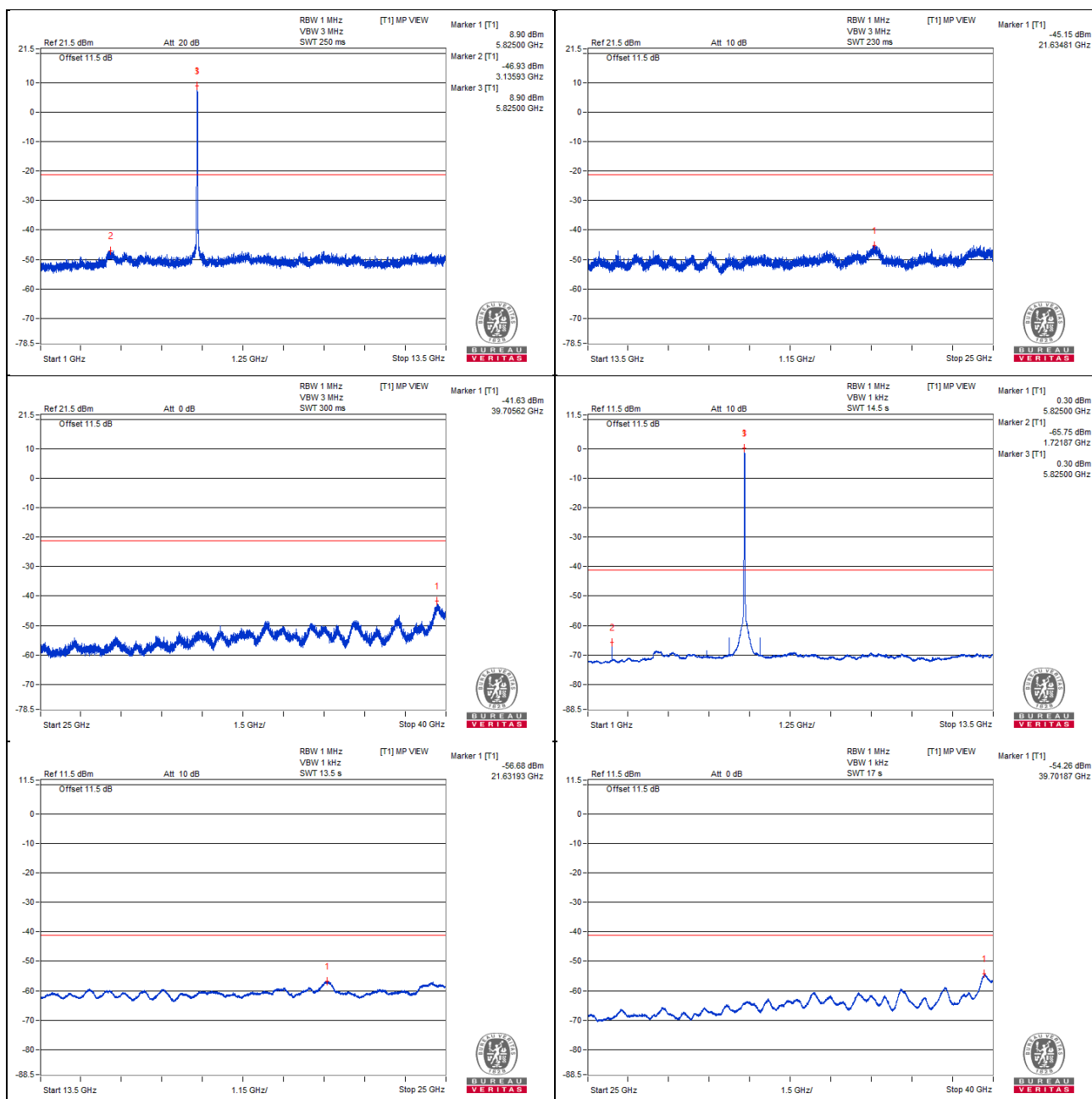
802.11a – Channel 165

Conducted spurious emission table

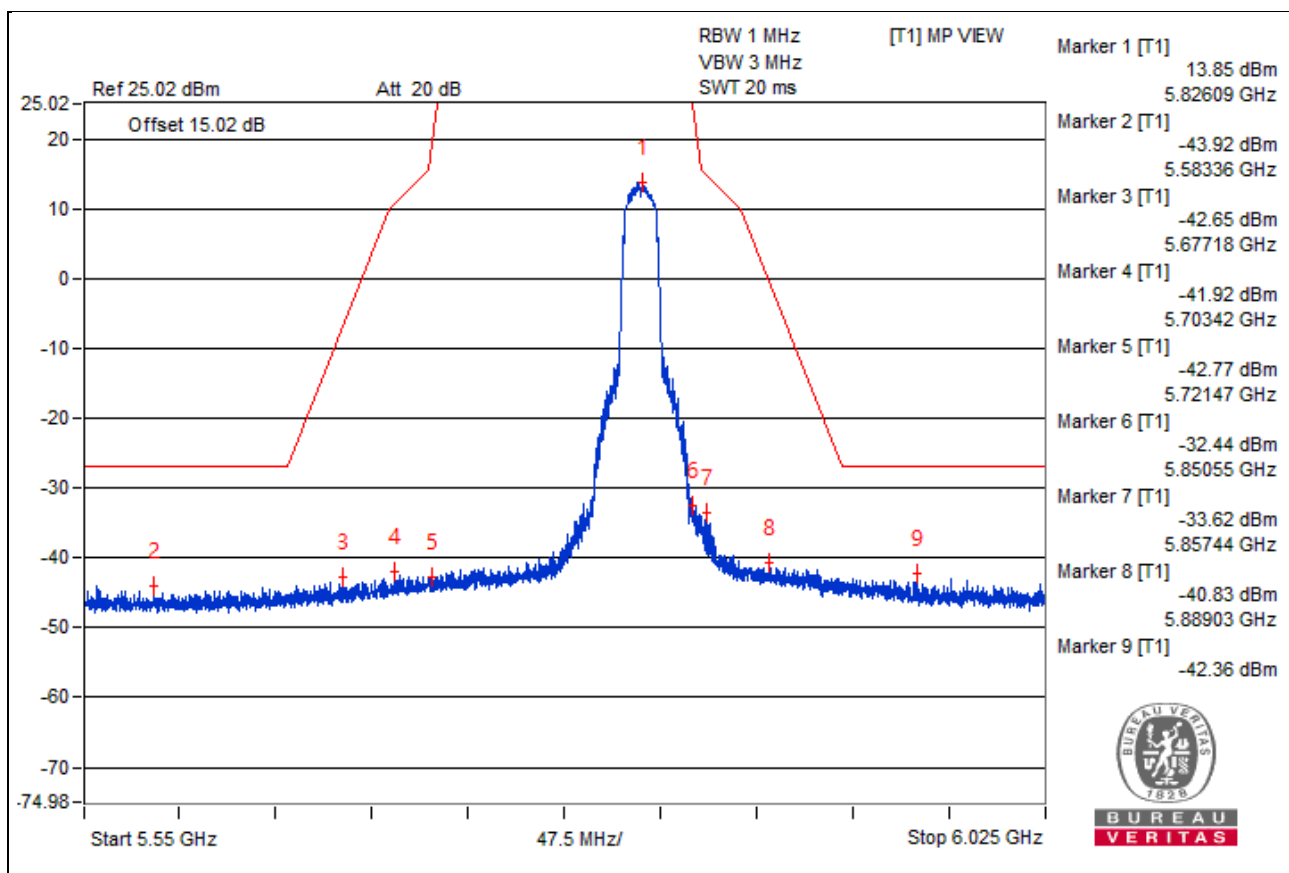
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5825 PK	107.81	*		8.9	3.65	12.55
2	3135.93 PK	51.98	68.2	-16.22	-46.93	3.65	-43.28
3	5825 PK	107.81	*		8.9	3.65	12.55
4	21634.81 PK	53.76	68.2	-14.44	-45.15	3.65	-41.5
5	39705.62 PK	57.28	74	-16.72	-41.63	3.65	-37.98
6	5825 AV	99.21	*		0.3	3.65	3.95
7	1721.87 AV	33.16	54	-20.84	-65.75	3.65	-62.1
8	5825 AV	99.21	*		0.3	3.65	3.95
9	21631.93 AV	42.23	#		-56.68	3.65	-53.03
10	39701.87 AV	44.65	54	-9.35	-54.26	3.65	-50.61

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.52 dBi).
2. The test results were EIRP.

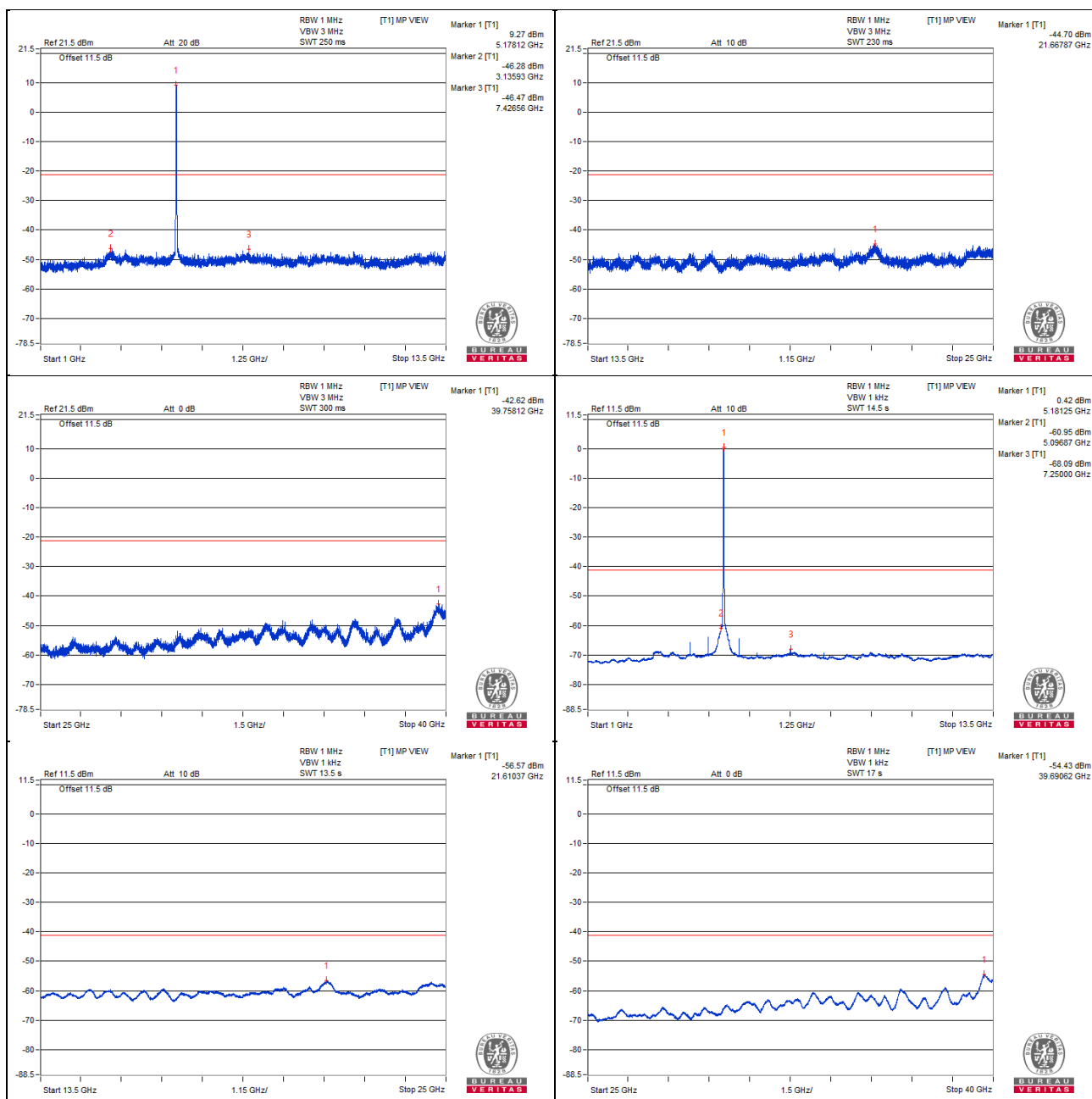
802.11ac (VHT20) - Channel 36

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	5178.12 PK	108.18	*		9.27	3.65	12.92
2	3135.93 PK	52.63	68.2	-15.57	-46.28	3.65	-42.63
3	7426.56 PK	52.44	74	-21.56	-46.47	3.65	-42.82
4	21667.87 PK	54.21	68.2	-13.99	-44.7	3.65	-41.05
5	39758.12 PK	56.29	74	-17.71	-42.62	3.65	-38.97
6	5181.25 AV	99.33	*		0.42	3.65	4.07
7	5096.87 AV	37.96	54	-16.04	-60.95	3.65	-57.3
8	7250 AV	30.82	54	-23.18	-68.09	3.65	-64.44
9	21610.37 AV	42.34	#		-56.57	3.65	-52.92
10	39690.62 AV	44.48	54	-9.52	-54.43	3.65	-50.78

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

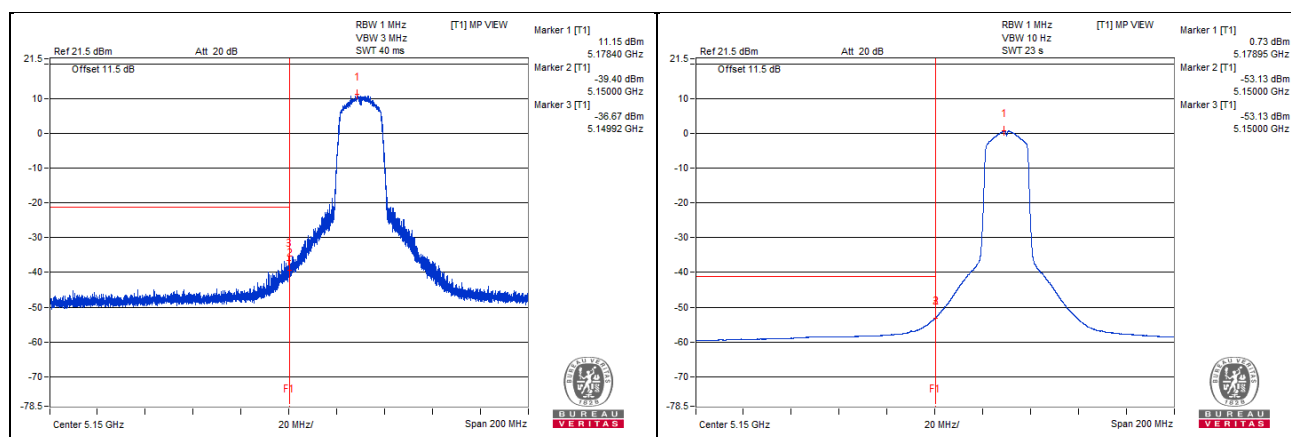


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5178.4 PK	109.84	*		11.15	3.43	14.58
2	5150 PK	59.29	74	-14.71	-39.4	3.43	-35.97
3	5149.92 PK	62.02	74	-11.98	-36.67	3.43	-33.24
4	5178.95 AV	99.42	*		0.73	3.43	4.16
5	5150 AV	45.56	54	-8.44	-53.13	3.43	-49.7
6	5150 AV	45.56	54	-8.44	-53.13	3.43	-49.7

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.



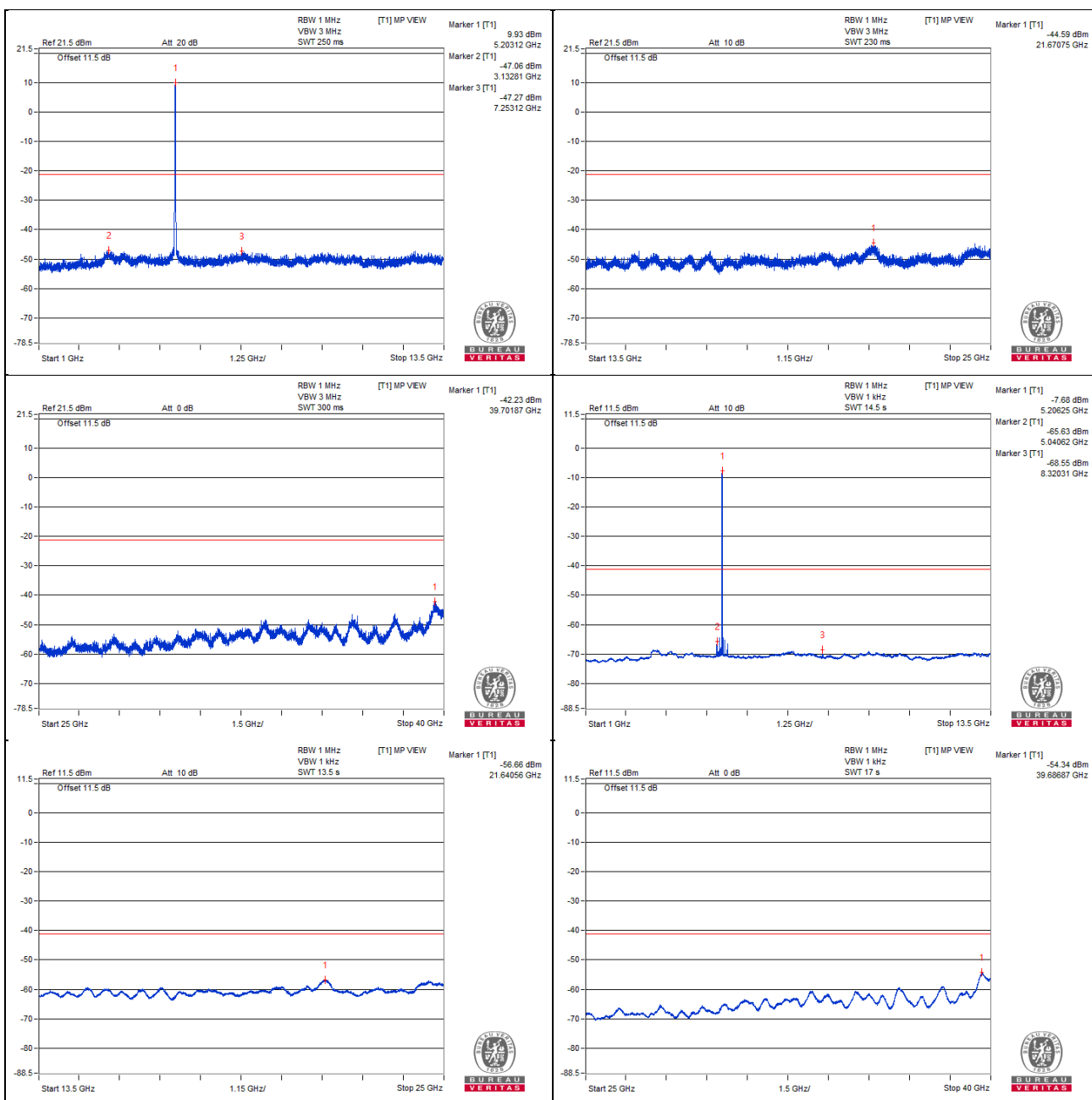
802.11ac (VHT20) - Channel 40

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	5203.12 PK	108.84	*		9.93	3.65	13.58
2	3132.81 PK	51.85	68.2	-16.35	-47.06	3.65	-43.41
3	7253.12 PK	51.64	74	-22.36	-47.27	3.65	-43.62
4	21670.75 PK	54.32	68.2	-13.88	-44.59	3.65	-40.94
5	39701.87 PK	56.68	74	-17.32	-42.23	3.65	-38.58
6	5206.25 AV	91.23	*		-7.68	3.65	-4.03
7	5040.62 AV	33.28	54	-20.72	-65.63	3.65	-61.98
8	8320.31 AV	30.36	54	-23.64	-68.55	3.65	-64.9
9	21640.56 AV	42.25	#		-56.66	3.65	-53.01
10	39686.87 AV	44.57	54	-9.43	-54.34	3.65	-50.69

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

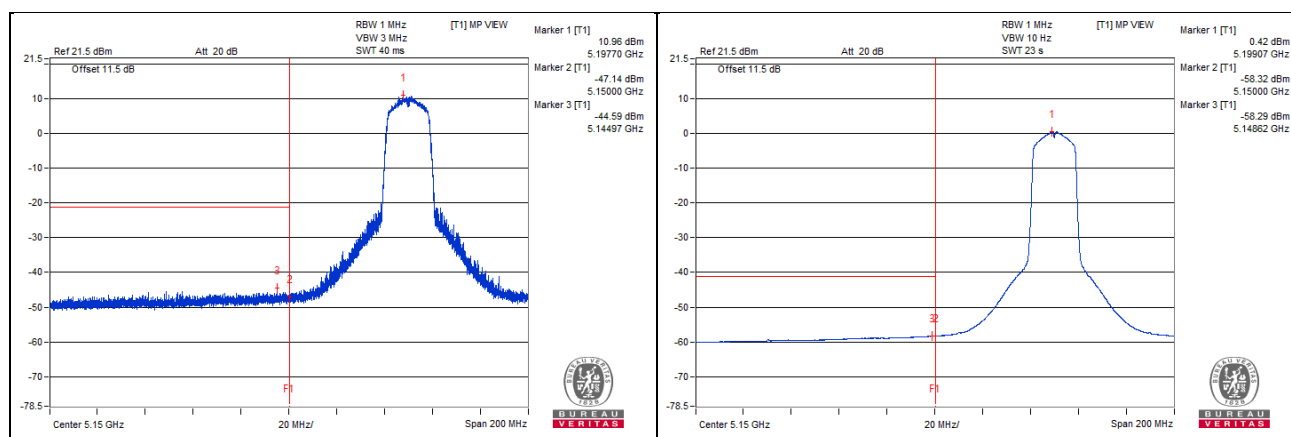


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5197.7 PK	109.65	*		10.96	3.43	14.39
2	5150 PK	51.55	74	-22.45	-47.14	3.43	-43.71
3	5144.97 PK	54.1	74	-19.9	-44.59	3.43	-41.16
4	5199.07 AV	99.11	*		0.42	3.43	3.85
5	5150 AV	40.37	54	-13.63	-58.32	3.43	-54.89
6	5148.62 AV	40.4	54	-13.6	-58.29	3.43	-54.86

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.



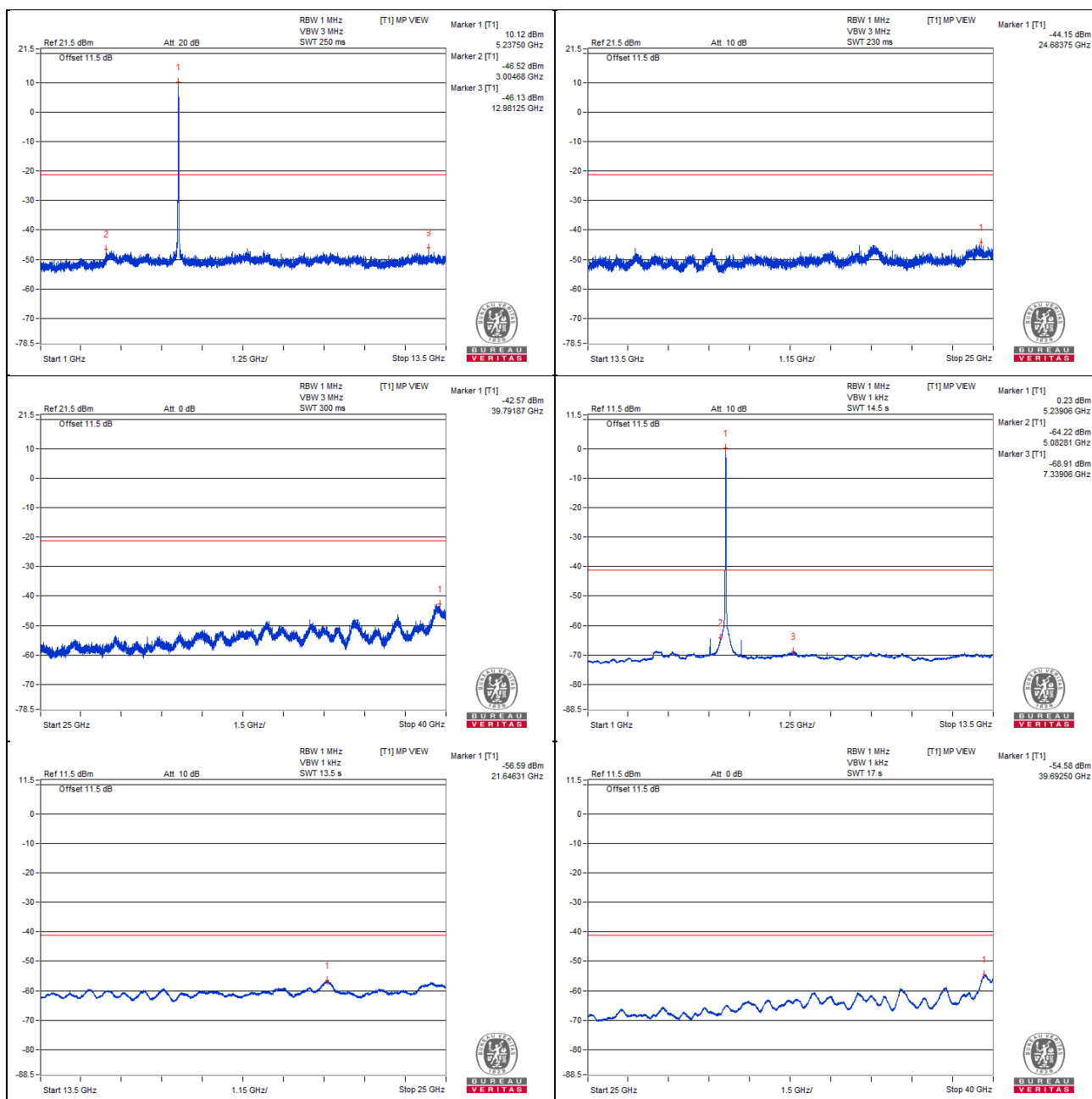
802.11ac (VHT20) - Channel 48

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	5237.5 PK	109.03	*		10.12	3.65	13.77
2	3004.68 PK	52.39	68.2	-15.81	-46.52	3.65	-42.87
3	12981.25 PK	52.78	68.2	-15.42	-46.13	3.65	-42.48
4	24683.75 PK	54.76	68.2	-13.44	-44.15	3.65	-40.5
5	39791.87 PK	56.34	74	-17.66	-42.57	3.65	-38.92
6	5239.06 AV	99.14	*		0.23	3.65	3.88
7	5082.81 AV	34.69	54	-19.31	-64.22	3.65	-60.57
8	7339.06 AV	30	54	-24	-68.91	3.65	-65.26
9	21646.31 AV	42.32	#		-56.59	3.65	-52.94
10	39692.5 AV	44.33	54	-9.67	-54.58	3.65	-50.93

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

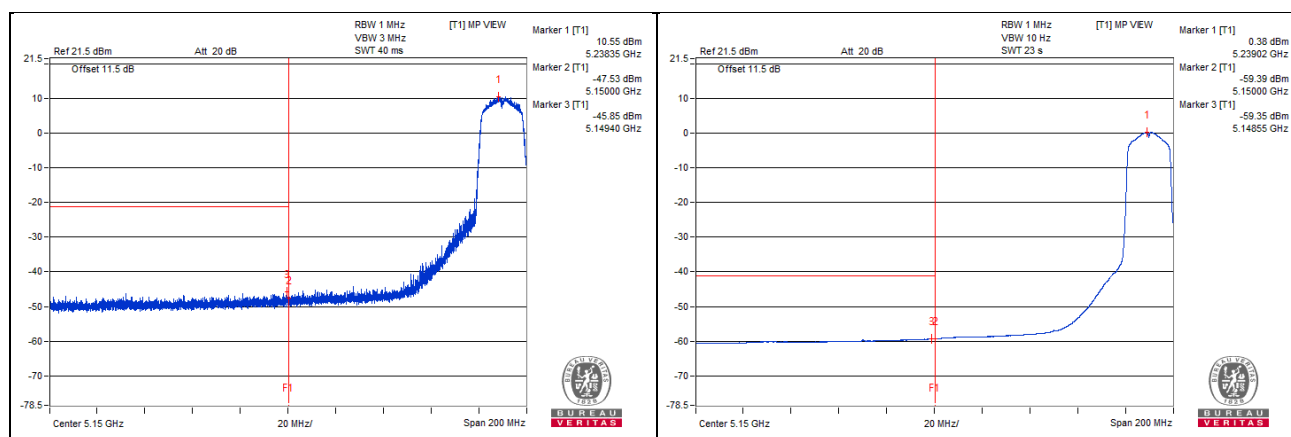


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5238.35 PK	109.24	*		10.55	3.43	13.98
2	5150 PK	51.16	74	-22.84	-47.53	3.43	-44.1
3	5149.4 PK	52.84	74	-21.16	-45.85	3.43	-42.42
4	5239.02 AV	99.07	*		0.38	3.43	3.81
5	5150 AV	39.3	54	-14.7	-59.39	3.43	-55.96
6	5148.55 AV	39.34	54	-14.66	-59.35	3.43	-55.92

Note :

1. Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.



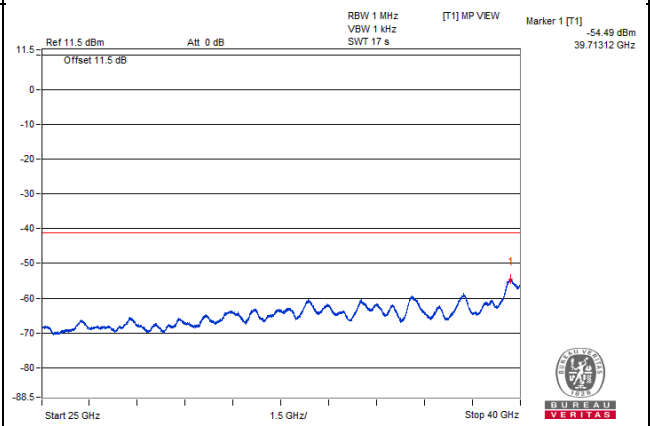
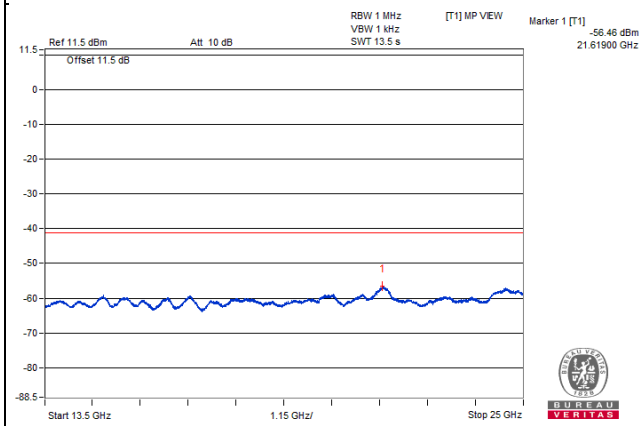
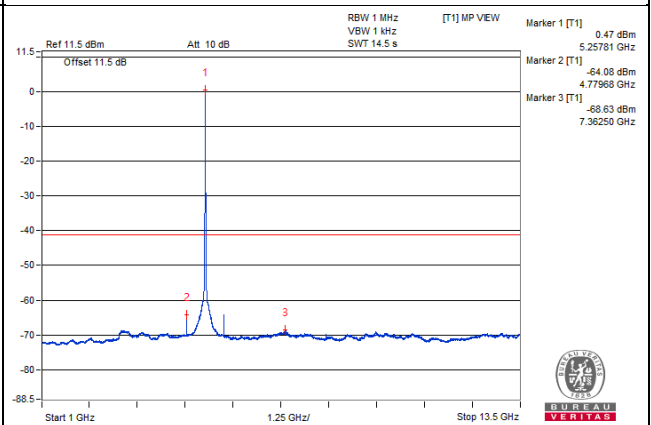
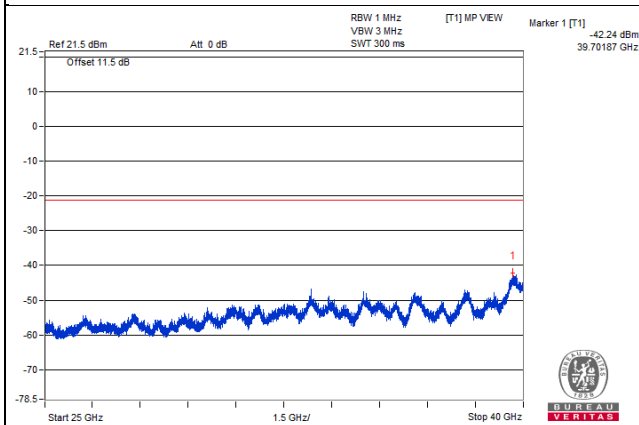
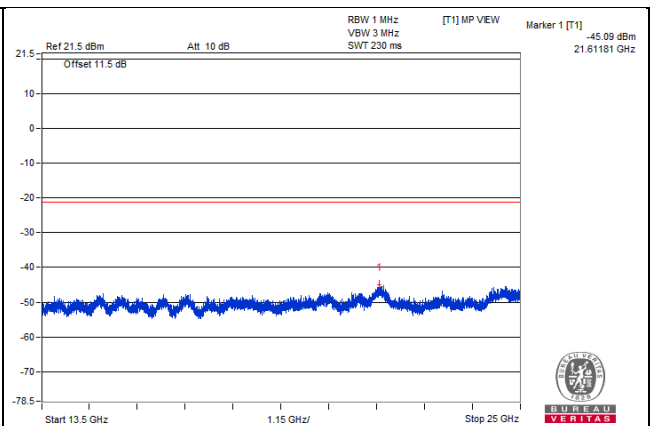
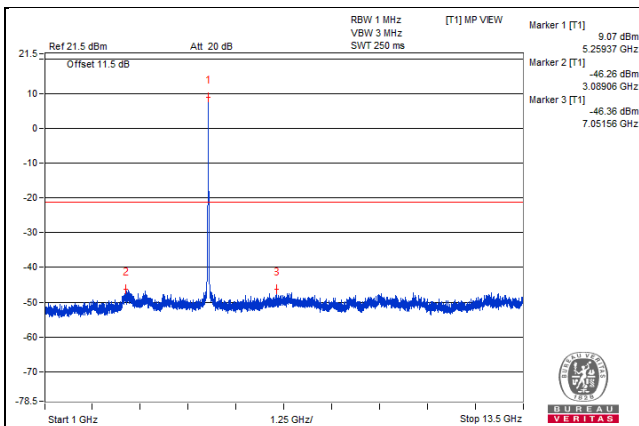
802.11ac (VHT20) - Channel 52

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	5259.37 PK	107.98	*		9.07	3.65	12.72
2	3089.06 PK	52.65	68.2	-15.55	-46.26	3.65	-42.61
3	7051.56 PK	52.55	68.2	-15.65	-46.36	3.65	-42.71
4	21611.81 PK	53.82	68.2	-14.38	-45.09	3.65	-41.44
5	39701.87 PK	56.67	74	-17.33	-42.24	3.65	-38.59
6	5257.81 AV	99.38	*		0.47	3.65	4.12
7	4779.68 AV	34.83	54	-19.17	-64.08	3.65	-60.43
8	7362.5 AV	30.28	54	-23.72	-68.63	3.65	-64.98
9	21619 AV	42.45	#		-56.46	3.65	-52.81
10	39713.12 AV	44.42	54	-9.58	-54.49	3.65	-50.84

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

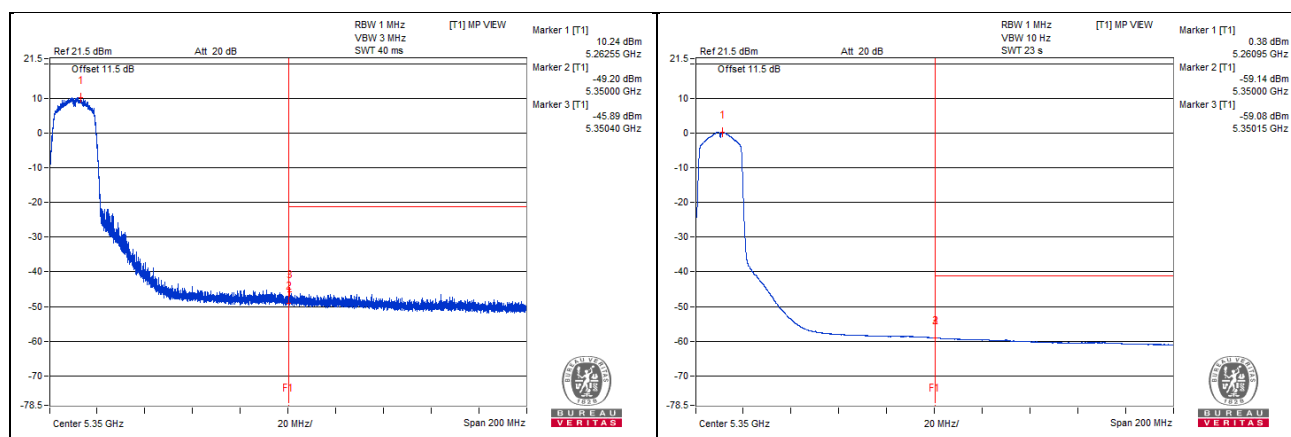


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5262.55 PK	109.15	*		10.24	3.65	13.89
2	5350 PK	49.71	74	-24.29	-49.2	3.65	-45.55
3	5350.4 PK	53.02	74	-20.98	-45.89	3.65	-42.24
4	5260.95 AV	99.29	*		0.38	3.65	4.03
5	5350 AV	39.77	54	-14.23	-59.14	3.65	-55.49
6	5350.15 AV	39.83	54	-14.17	-59.08	3.65	-55.43

Note :

1. Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.



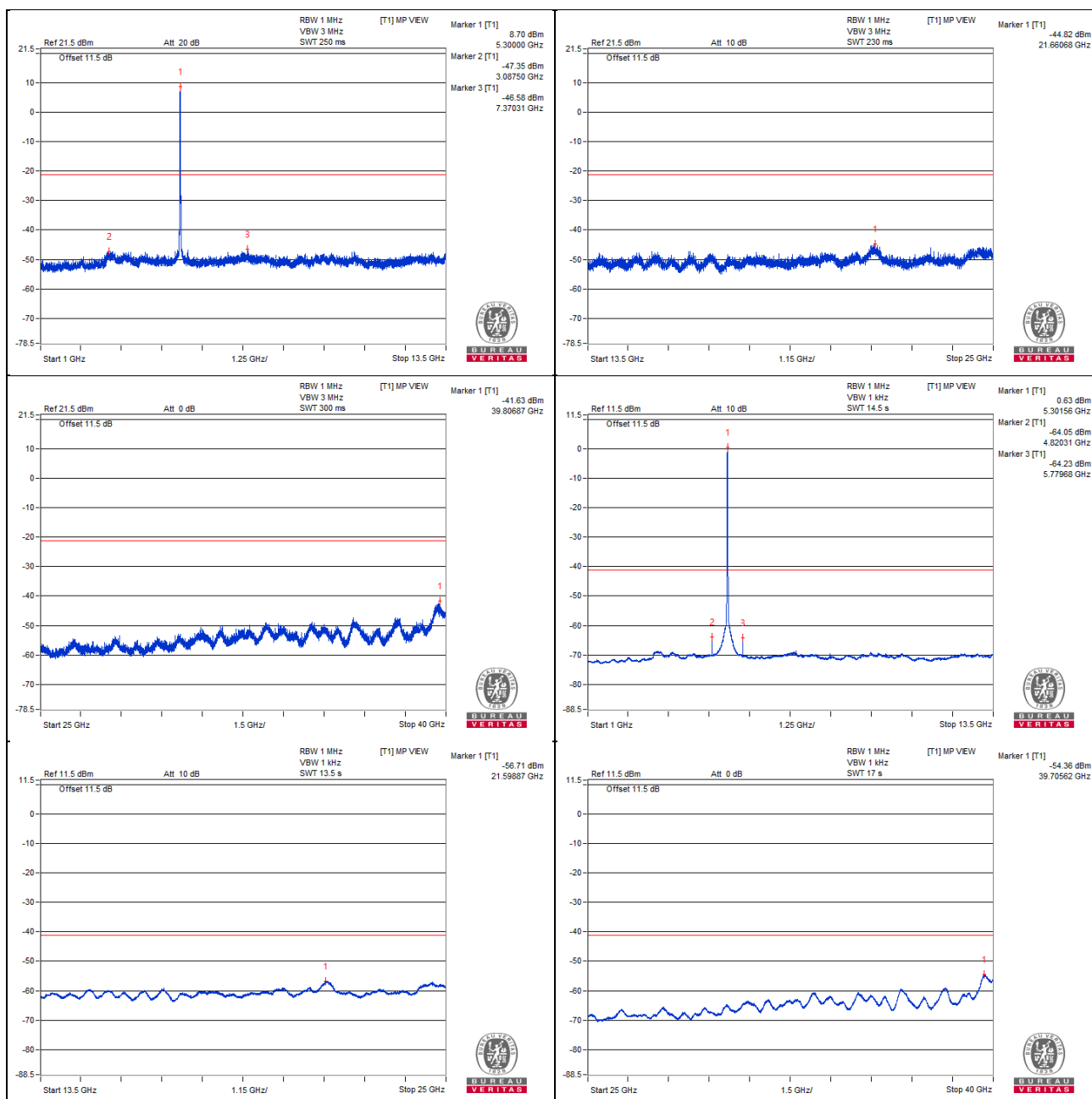
802.11ac (VHT20) - Channel 60

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	5300 PK	107.61	*		8.7	3.65	12.35
2	3087.5 PK	51.56	68.2	-16.64	-47.35	3.65	-43.7
3	7370.31 PK	52.33	74	-21.67	-46.58	3.65	-42.93
4	21660.68 PK	54.09	68.2	-14.11	-44.82	3.65	-41.17
5	39806.87 PK	57.28	74	-16.72	-41.63	3.65	-37.98
6	5301.56 AV	99.54	*		0.63	3.65	4.28
7	4820.31 AV	34.86	54	-19.14	-64.05	3.65	-60.4
8	5779.68 AV	34.68	#		-64.23	3.65	-60.58
9	21598.87 AV	42.2	#		-56.71	3.65	-53.06
10	39705.62 AV	44.55	54	-9.45	-54.36	3.65	-50.71

Note :

1. Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

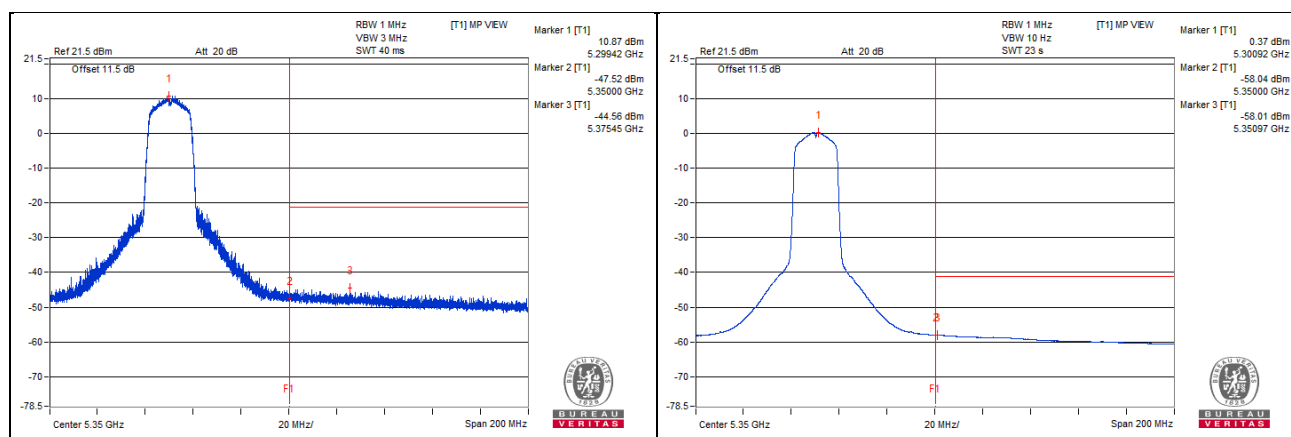


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5299.42 PK	109.78	*		10.87	3.65	14.52
2	5350 PK	51.39	74	-22.61	-47.52	3.65	-43.87
3	5375.45 PK	54.35	74	-19.65	-44.56	3.65	-40.91
4	5300.92 AV	99.28	*		0.37	3.65	4.02
5	5350 AV	40.87	54	-13.13	-58.04	3.65	-54.39
6	5350.97 AV	40.9	54	-13.1	-58.01	3.65	-54.36

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.



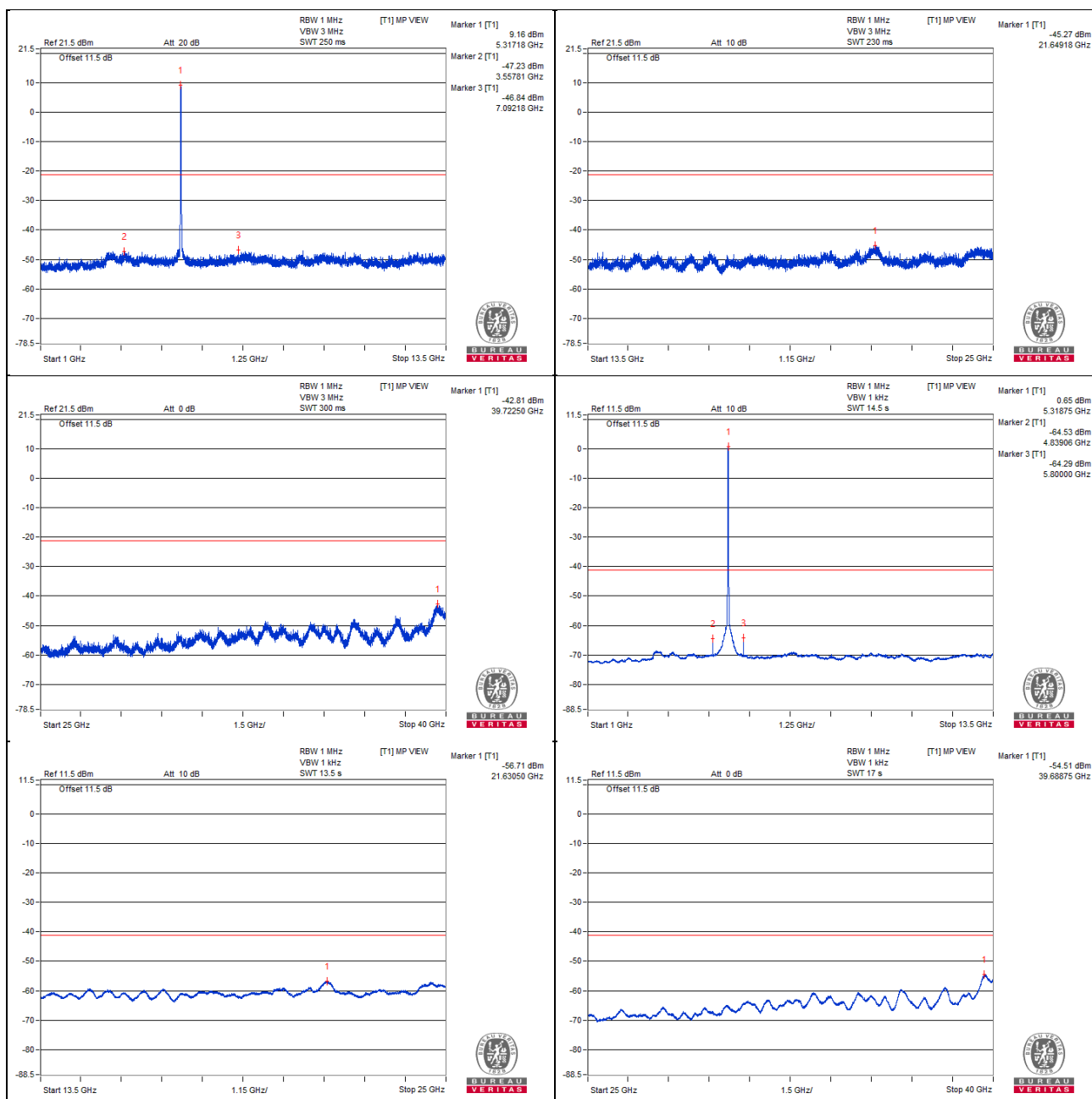
802.11ac (VHT20) - Channel 64

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	5317.18 PK	108.07	*		9.16	3.65	12.81
2	3557.81 PK	51.68	74	-22.32	-47.23	3.65	-43.58
3	7092.18 PK	52.07	68.2	-16.13	-46.84	3.65	-43.19
4	21649.18 PK	53.64	68.2	-14.56	-45.27	3.65	-41.62
5	39722.5 PK	56.1	74	-17.9	-42.81	3.65	-39.16
6	5318.75 AV	99.56	*		0.65	3.65	4.3
7	4839.06 AV	34.38	54	-19.62	-64.53	3.65	-60.88
8	5800 AV	34.62	#		-64.29	3.65	-60.64
9	21630.5 AV	42.2	#		-56.71	3.65	-53.06
10	39688.75 AV	44.4	54	-9.6	-54.51	3.65	-50.86

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

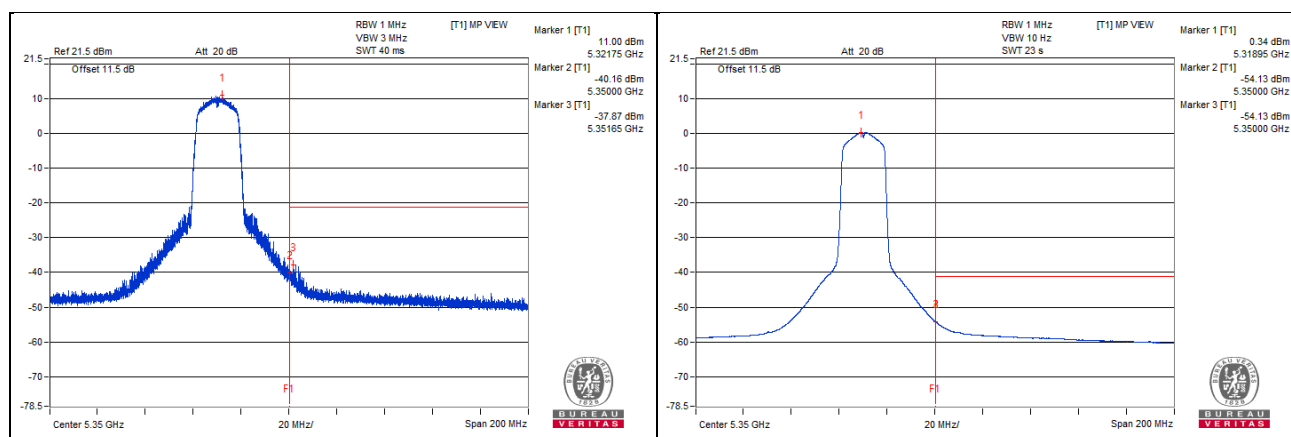


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5321.75 PK	109.91	*		11	3.65	14.65
2	5350 PK	58.75	74	-15.25	-40.16	3.65	-36.51
3	5351.65 PK	61.04	74	-12.96	-37.87	3.65	-34.22
4	5318.95 AV	99.25	*		0.34	3.65	3.99
5	5350 AV	44.78	54	-9.22	-54.13	3.65	-50.48
6	5350 AV	44.78	54	-9.22	-54.13	3.65	-50.48

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.



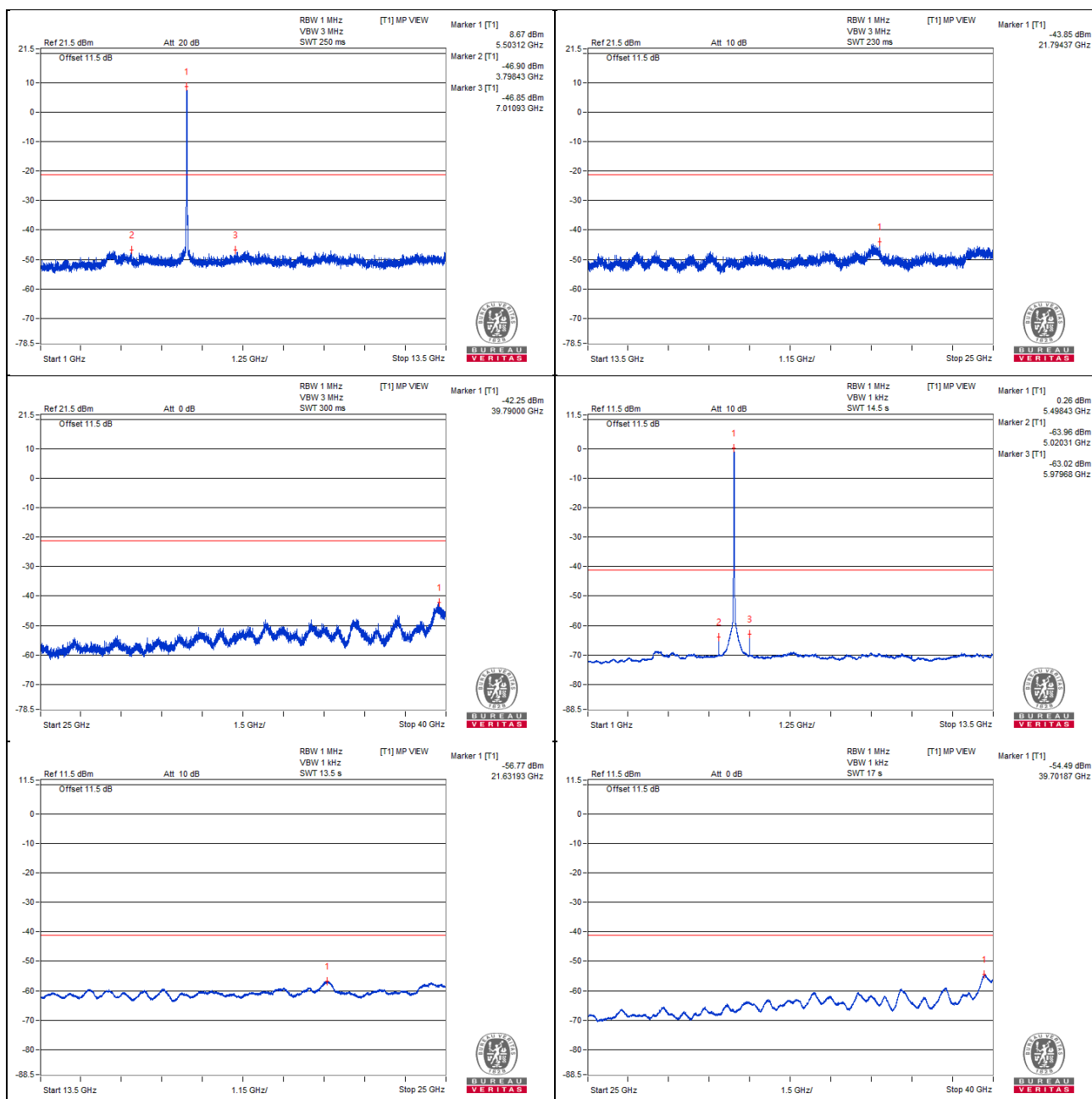
802.11ac (VHT20) - Channel 100

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	5503.12 PK	107.58	*		8.67	3.65	12.32
2	3798.43 PK	52.01	74	-21.99	-46.9	3.65	-43.25
3	7010.93 PK	52.06	68.2	-16.14	-46.85	3.65	-43.2
4	21794.37 PK	55.06	68.2	-13.14	-43.85	3.65	-40.2
5	39790 PK	56.66	74	-17.34	-42.25	3.65	-38.6
6	5498.43 AV	99.17	*		0.26	3.65	3.91
7	5020.31 AV	34.95	54	-19.05	-63.96	3.65	-60.31
8	5979.68 AV	35.89	#		-63.02	3.65	-59.37
9	21631.93 AV	42.14	#		-56.77	3.65	-53.12
10	39701.87 AV	44.42	54	-9.58	-54.49	3.65	-50.84

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

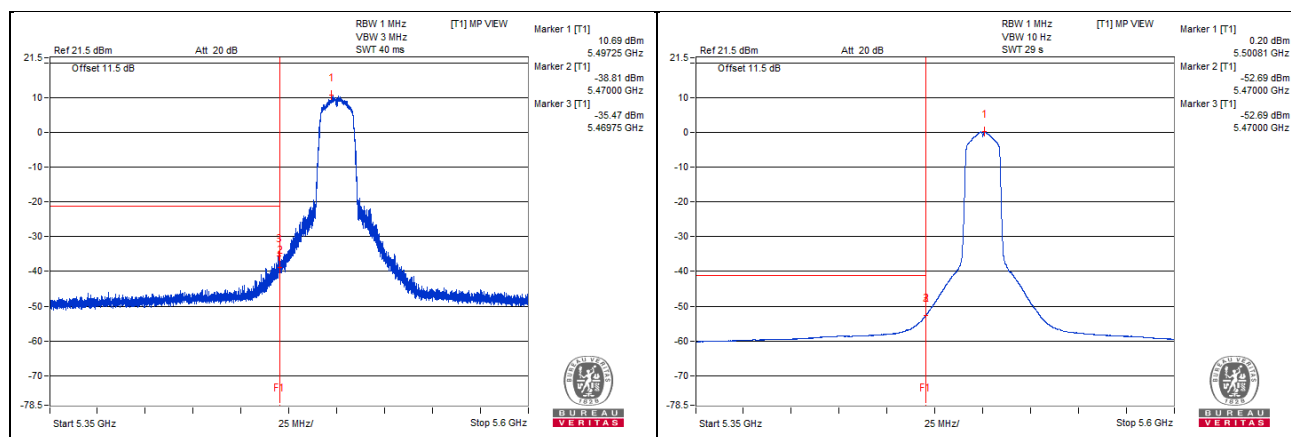


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5497.25 PK	109.17	*		10.69	3.22	13.91
2	5470 PK	59.67	68.2	-8.53	-38.81	3.22	-35.59
3	5469.75 PK	63.01	68.2	-5.19	-35.47	3.22	-32.25
4	5500.81 AV	98.68	*		0.2	3.22	3.42
5	5470 AV	45.79	#		-52.69	3.22	-49.47
6	5470 AV	45.79	#		-52.69	3.22	-49.47

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



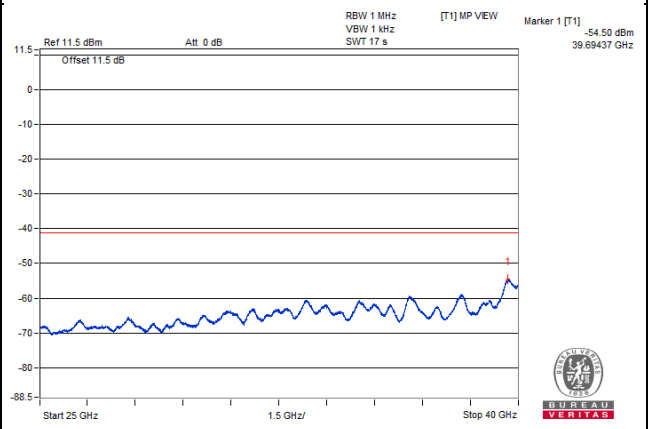
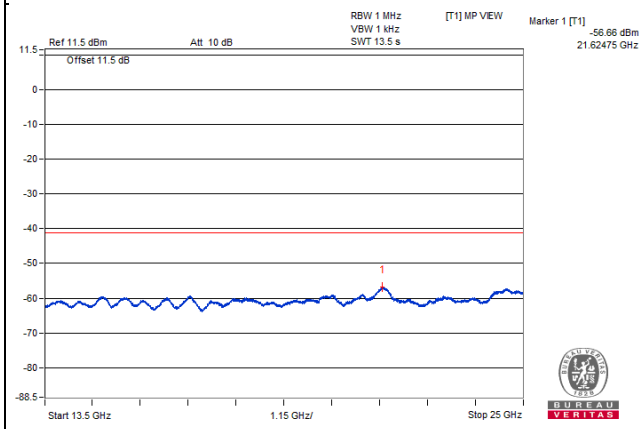
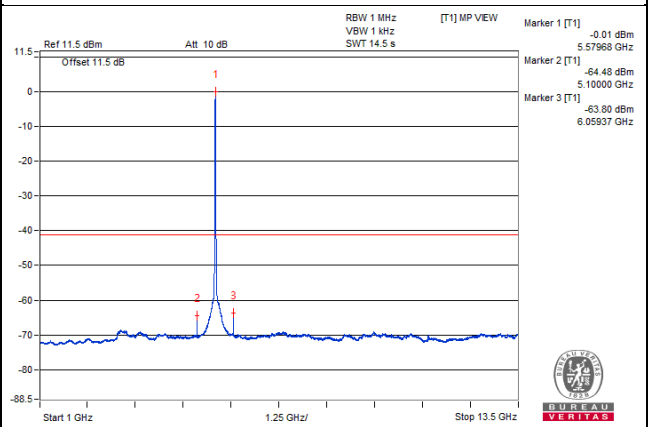
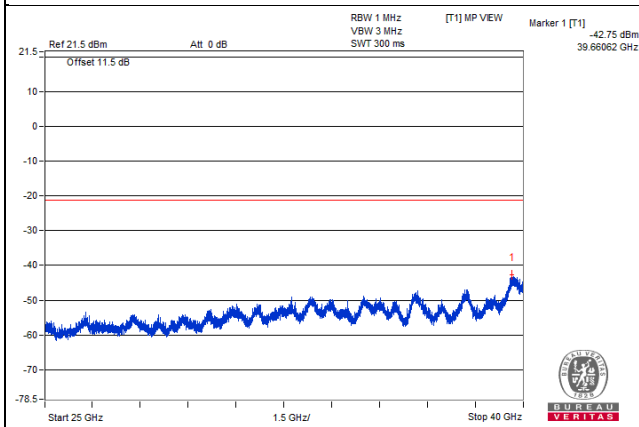
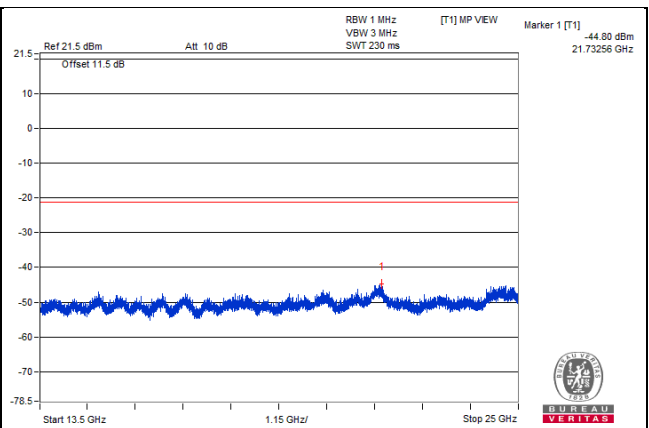
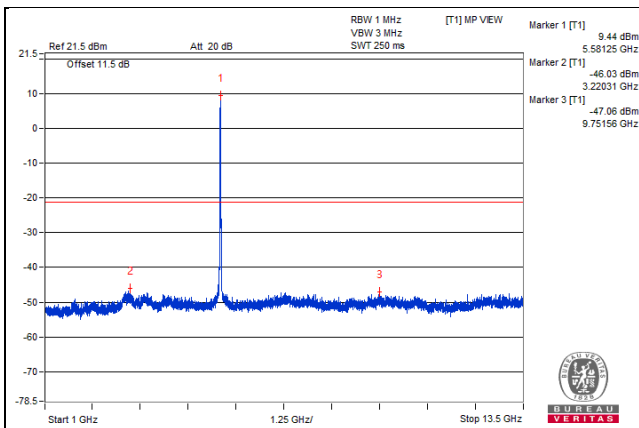
802.11ac (VHT20) - Channel 116

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	5581.25 PK	108.35	*		9.44	3.65	13.09
2	3220.31 PK	52.88	68.2	-15.32	-46.03	3.65	-42.38
3	9751.56 PK	51.85	68.2	-16.35	-47.06	3.65	-43.41
4	21732.56 PK	54.11	68.2	-14.09	-44.8	3.65	-41.15
5	39660.62 PK	56.16	74	-17.84	-42.75	3.65	-39.1
6	5579.68 AV	98.9	*		-0.01	3.65	3.64
7	5100 AV	34.43	54	-19.57	-64.48	3.65	-60.83
8	6059.37 AV	35.11	#		-63.8	3.65	-60.15
9	21624.75 AV	42.25	#		-56.66	3.65	-53.01
10	39694.37 AV	44.41	54	-9.59	-54.5	3.65	-50.85

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

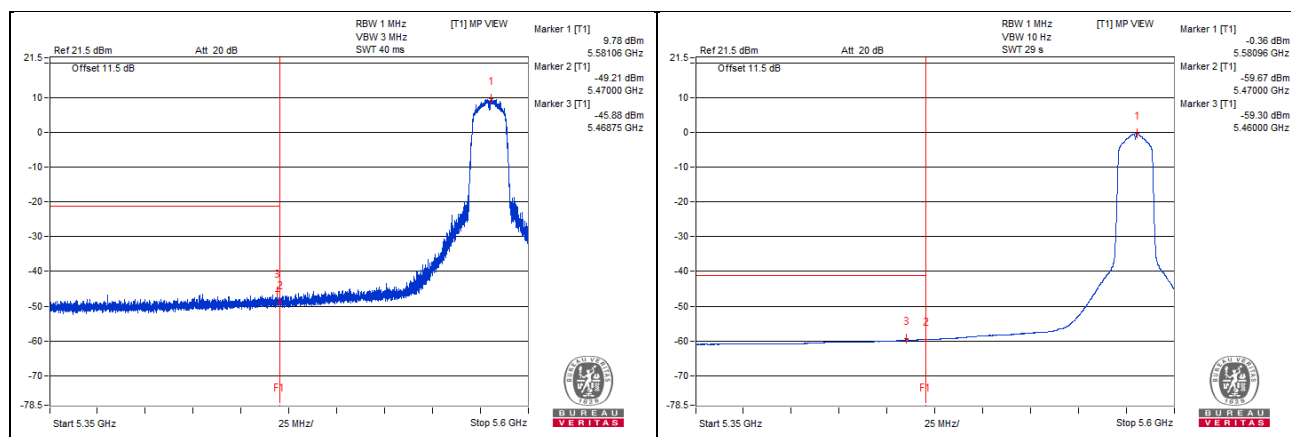


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5581.06 PK	108.26	*		9.78	3.22	13
2	5470 PK	49.27	68.2	-18.93	-49.21	3.22	-45.99
3	5468.75 PK	52.6	68.2	-15.6	-45.88	3.22	-42.66
4	5580.96 AV	98.12	*		-0.36	3.22	2.86
5	5470 AV	38.81	#		-59.67	3.22	-56.45
6	5460 AV	39.18	54	-14.82	-59.3	3.22	-56.08

Note :

1. Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



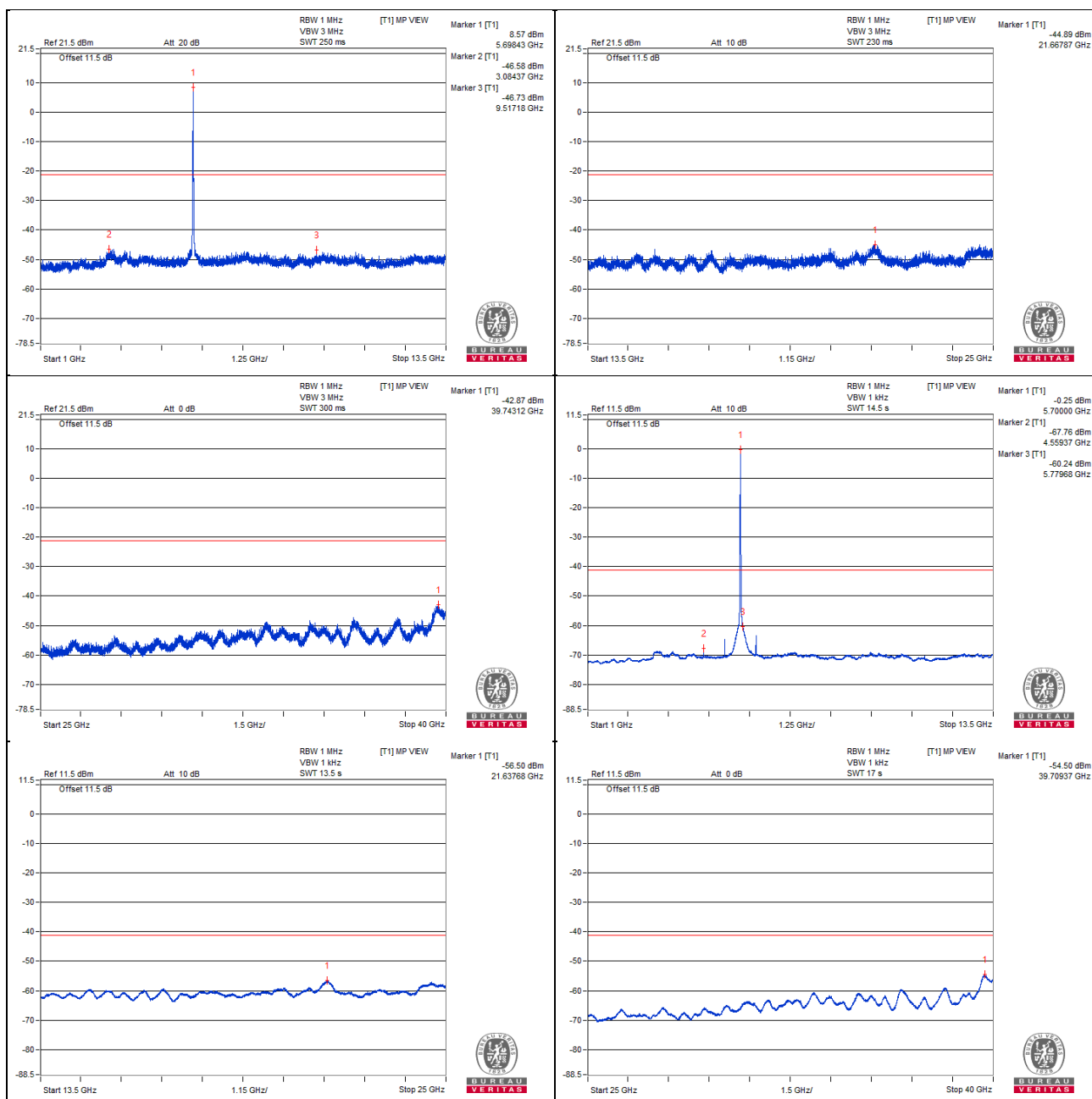
802.11ac (VHT20) - Channel 140

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	5698.43 PK	107.48	*		8.57	3.65	12.22
2	3084.37 PK	52.33	68.2	-15.87	-46.58	3.65	-42.93
3	9517.18 PK	52.18	68.2	-16.02	-46.73	3.65	-43.08
4	21667.87 PK	54.02	68.2	-14.18	-44.89	3.65	-41.24
5	39743.12 PK	56.04	74	-17.96	-42.87	3.65	-39.22
6	5700 AV	98.66	*		-0.25	3.65	3.4
7	4559.37 AV	31.15	54	-22.85	-67.76	3.65	-64.11
8	5779.68 AV	38.67	#		-60.24	3.65	-56.59
9	21637.68 AV	42.41	#		-56.5	3.65	-52.85
10	39709.37 AV	44.41	54	-9.59	-54.5	3.65	-50.85

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

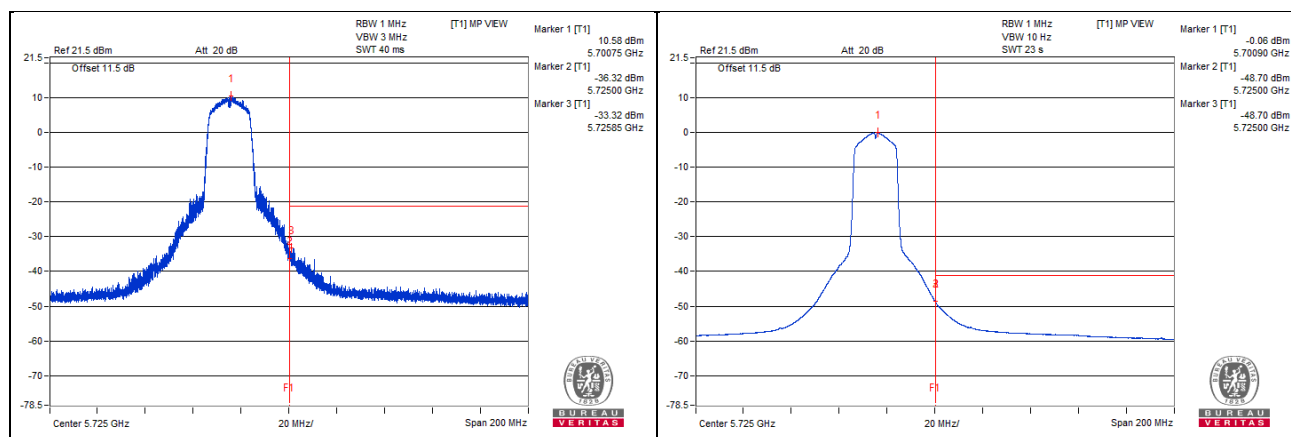


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5700.75 PK	109.06	*		10.58	3.22	13.8
2	5725 PK	62.16	68.2	-6.04	-36.32	3.22	-33.1
3	5725.85 PK	65.16	68.2	-3.04	-33.32	3.22	-30.1
4	5700.9 AV	98.42	*		-0.06	3.22	3.16
5	5725 AV	49.78	#		-48.7	3.22	-45.48
6	5725 AV	49.78	#		-48.7	3.22	-45.48

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



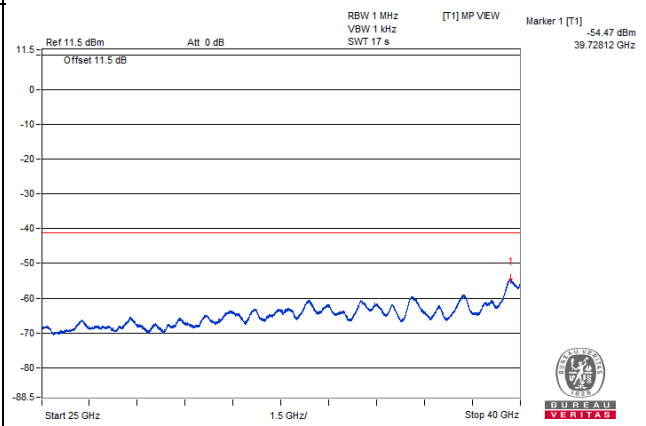
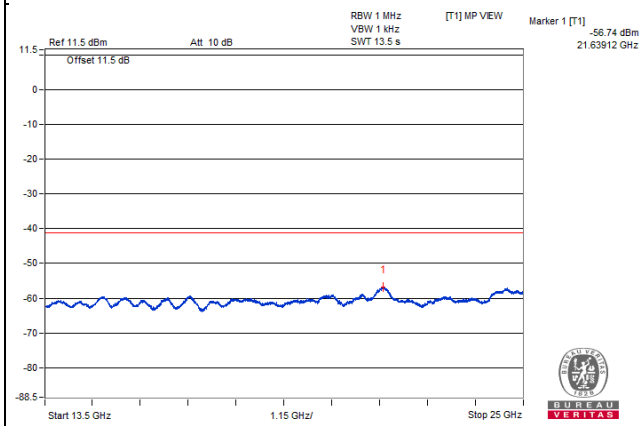
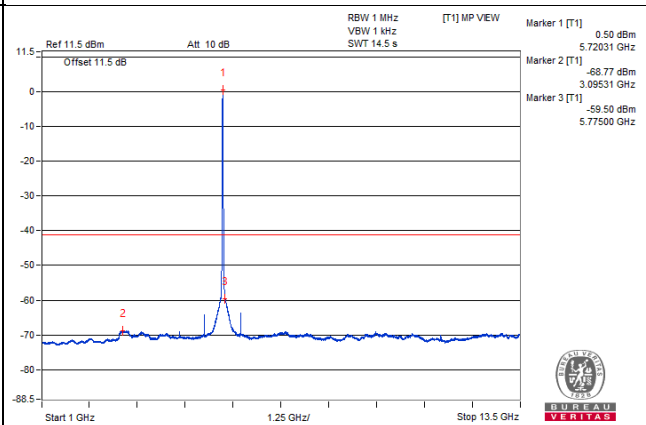
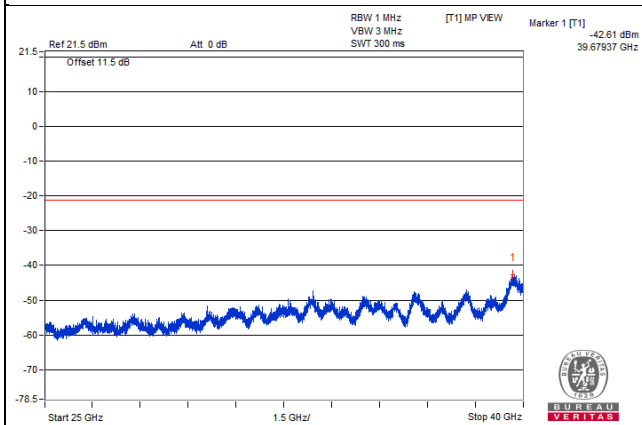
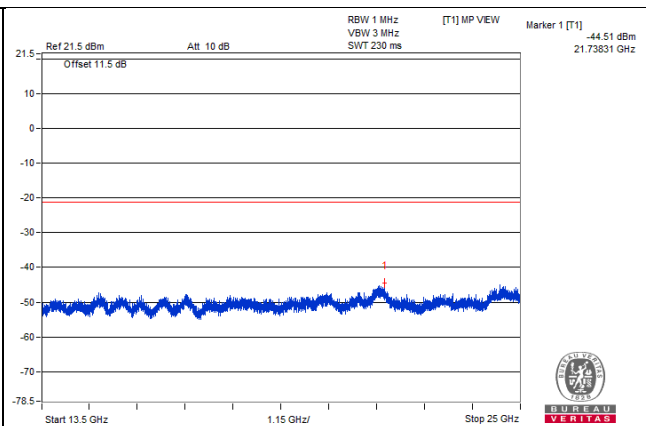
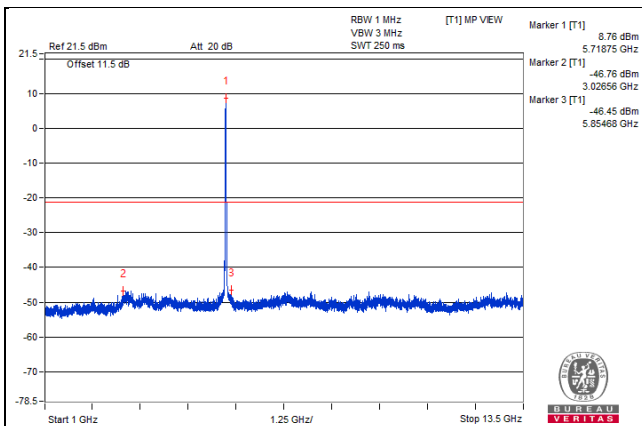
802.11ac (VHT20) - Channel 144

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	5718.75 PK	107.67	*		8.76	3.65	12.41
2	3026.56 PK	52.15	68.2	-16.05	-46.76	3.65	-43.11
3	5854.68 PK	52.46	68.2	-15.74	-46.45	3.65	-42.8
4	21738.31 PK	54.4	68.2	-13.8	-44.51	3.65	-40.86
5	39679.37 PK	56.3	74	-17.7	-42.61	3.65	-38.96
6	5720.31 AV	99.41	*		0.5	3.65	4.15
7	3095.31 AV	30.14	#		-68.77	3.65	-65.12
8	5775 AV	39.41	#		-59.5	3.65	-55.85
9	21639.12 AV	42.17	#		-56.74	3.65	-53.09
10	39728.12 AV	44.44	54	-9.56	-54.47	3.65	-50.82

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

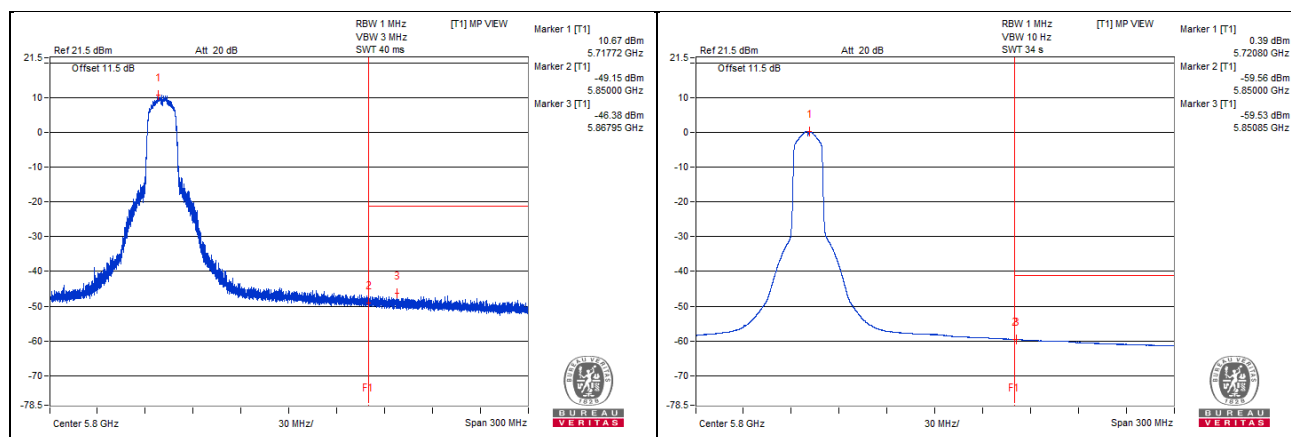


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5717.72 PK	109.45	*		10.67	3.52	14.19
2	5850 PK	49.63	68.2	-18.57	-49.15	3.52	-45.63
3	5867.95 PK	52.4	68.2	-15.8	-46.38	3.52	-42.86
4	5720.8 AV	99.17	*		0.39	3.52	3.91
5	5850 AV	39.22	#		-59.56	3.52	-56.04
6	5850.85 AV	39.25	#		-59.53	3.52	-56.01

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



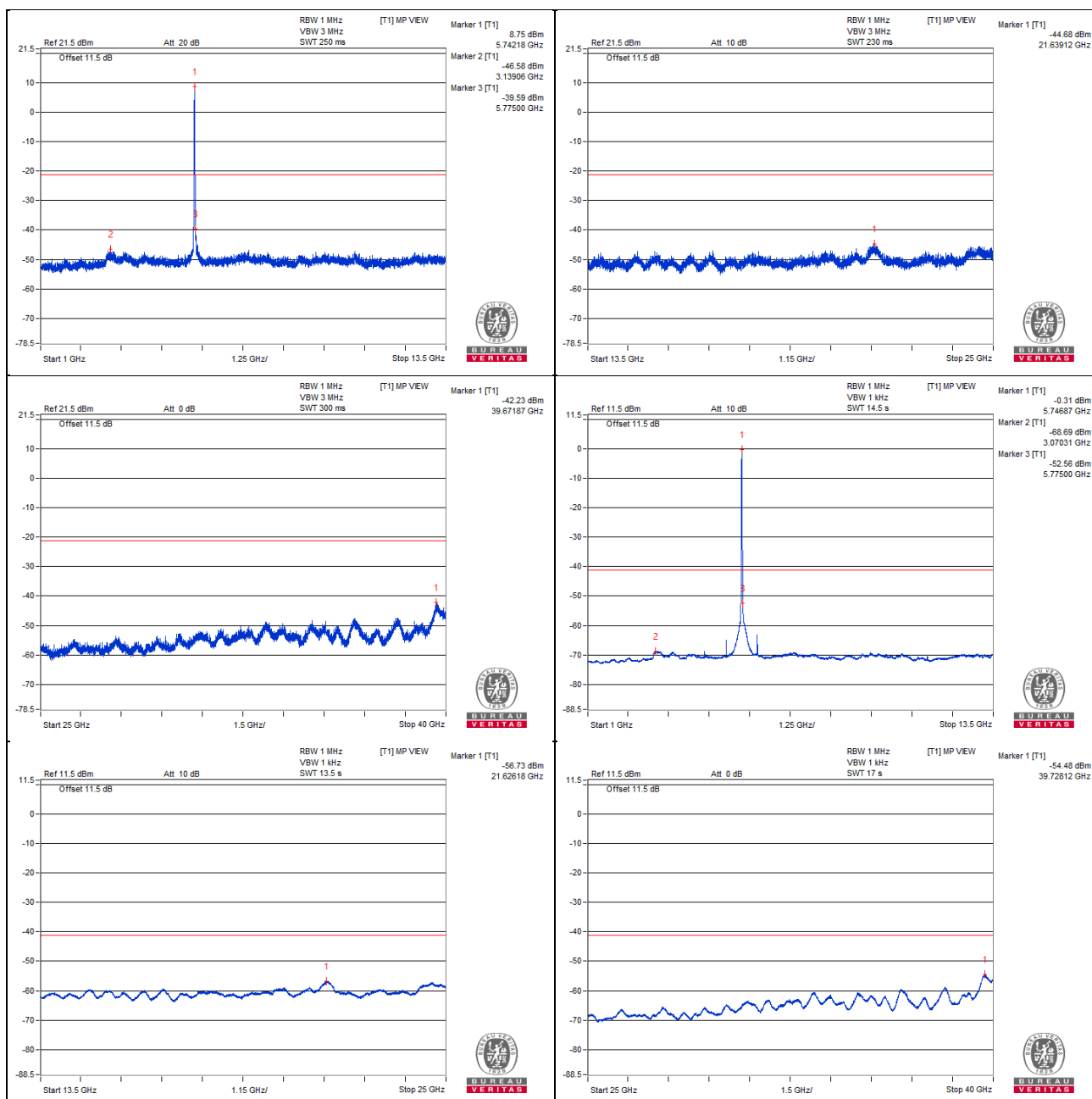
802.11ac (VHT20) – Channel 149

Conducted spurious emission table

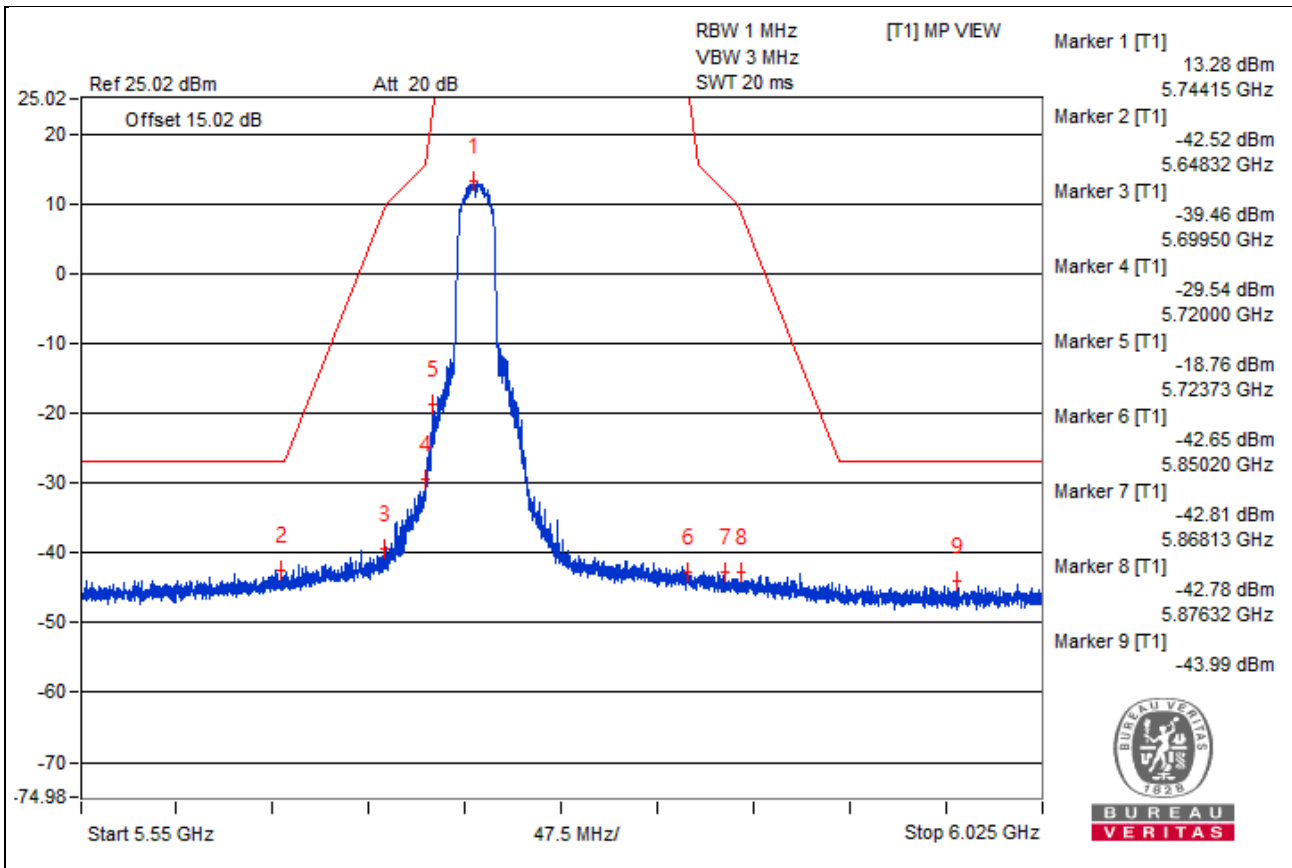
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5742.18 PK	107.66	*		8.75	3.65	12.4
2	3139.06 PK	52.33	68.2	-15.87	-46.58	3.65	-42.93
3	5775 PK	59.32	68.2	-8.88	-39.59	3.65	-35.94
4	21639.12 PK	54.23	68.2	-13.97	-44.68	3.65	-41.03
5	39671.87 PK	56.68	74	-17.32	-42.23	3.65	-38.58
6	5746.87 AV	98.6	*		-0.31	3.65	3.34
7	3070.31 AV	30.22	#		-68.69	3.65	-65.04
8	5775 AV	46.35	#		-52.56	3.65	-48.91
9	21626.18 AV	42.18	#		-56.73	3.65	-53.08
10	39728.12 AV	44.43	54	-9.57	-54.48	3.65	-50.83

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.52 dBi).
2. The test results were EIRP.

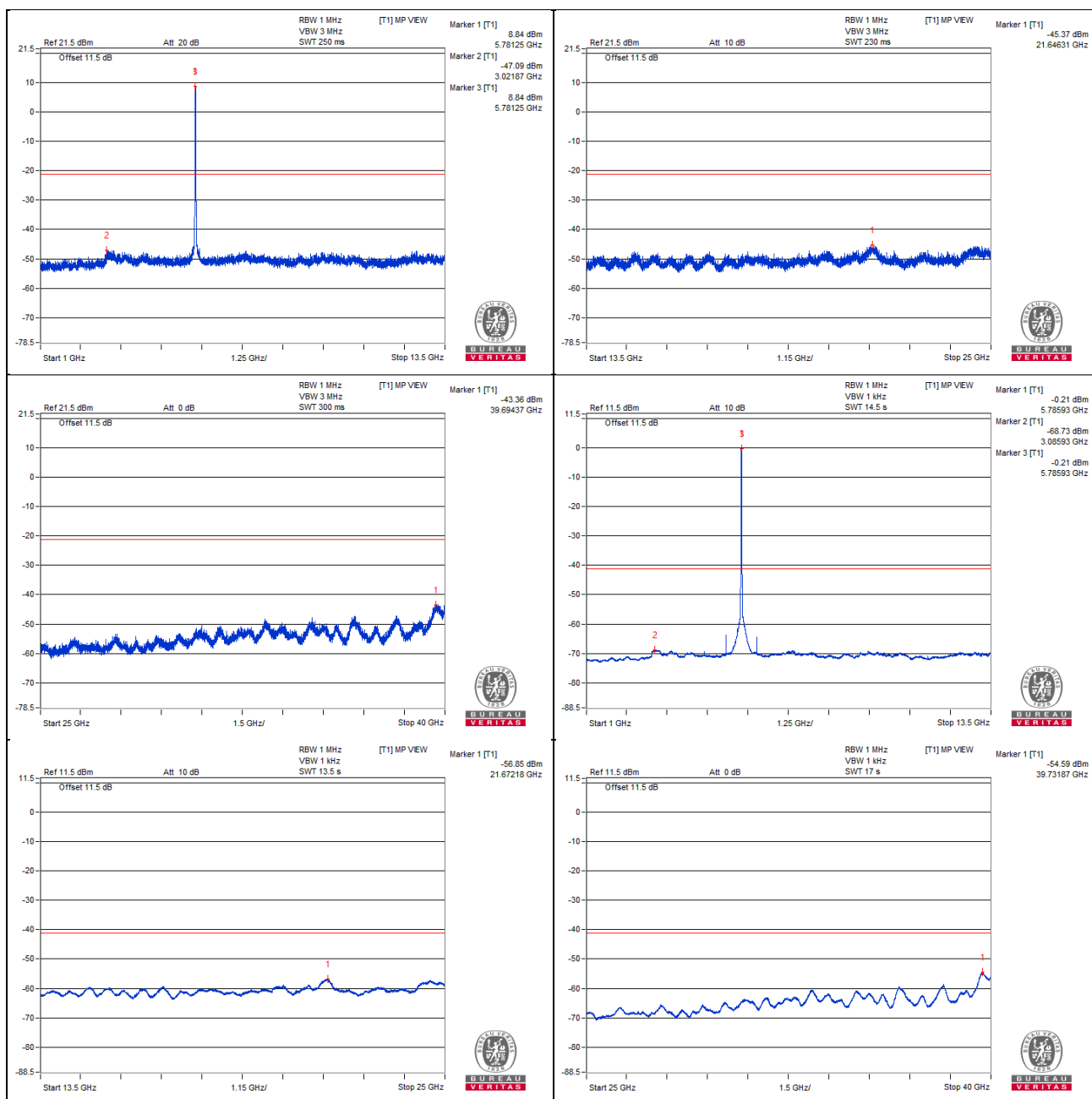
802.11ac (VHT20) – Channel 157

Conducted spurious emission table

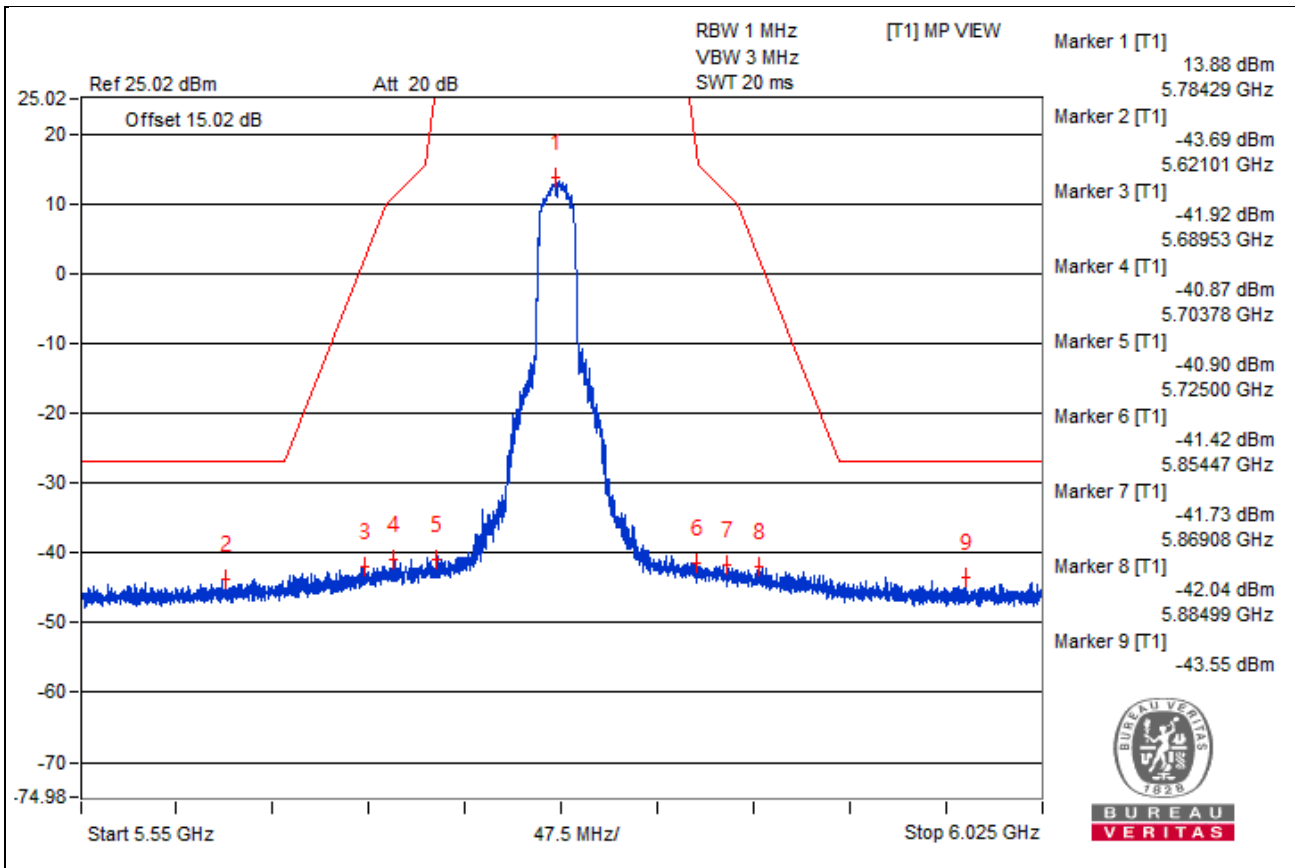
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5781.25 PK	107.75	*		8.84	3.65	12.49
2	3021.87 PK	51.82	68.2	-16.38	-47.09	3.65	-43.44
3	5781.25 PK	107.75	*		8.84	3.65	12.49
4	21646.31 PK	53.54	68.2	-14.66	-45.37	3.65	-41.72
5	39694.37 PK	55.55	74	-18.45	-43.36	3.65	-39.71
6	5785.93 AV	98.7	*		-0.21	3.65	3.44
7	3085.93 AV	30.18	#		-68.73	3.65	-65.08
8	5785.93 AV	98.7	*		-0.21	3.65	3.44
9	21672.18 AV	42.06	#		-56.85	3.65	-53.2
10	39731.87 AV	44.32	54	-9.68	-54.59	3.65	-50.94

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.52 dBi).
2. The test results were EIRP.

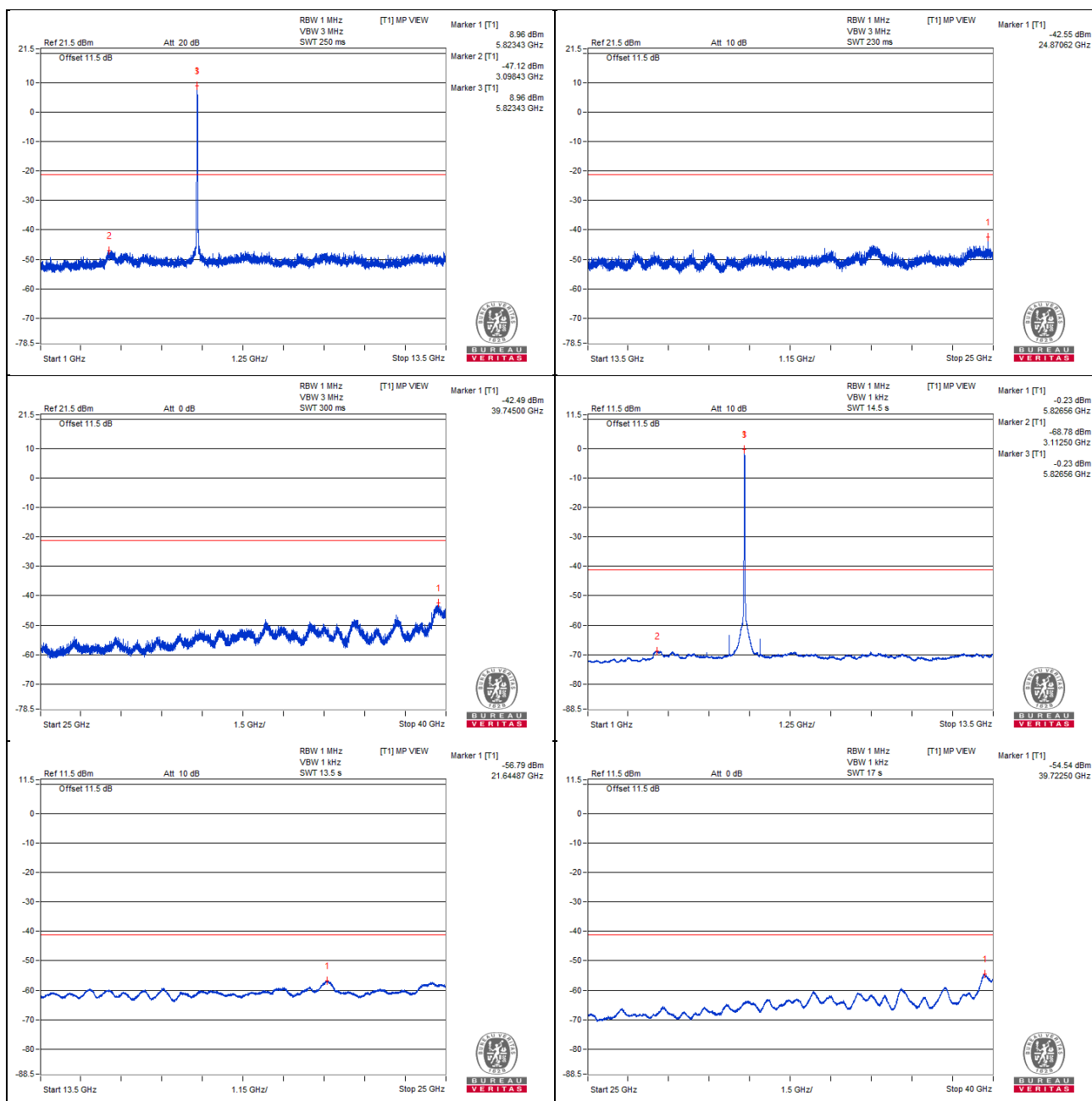
802.11ac (VHT20) – Channel 165

Conducted spurious emission table

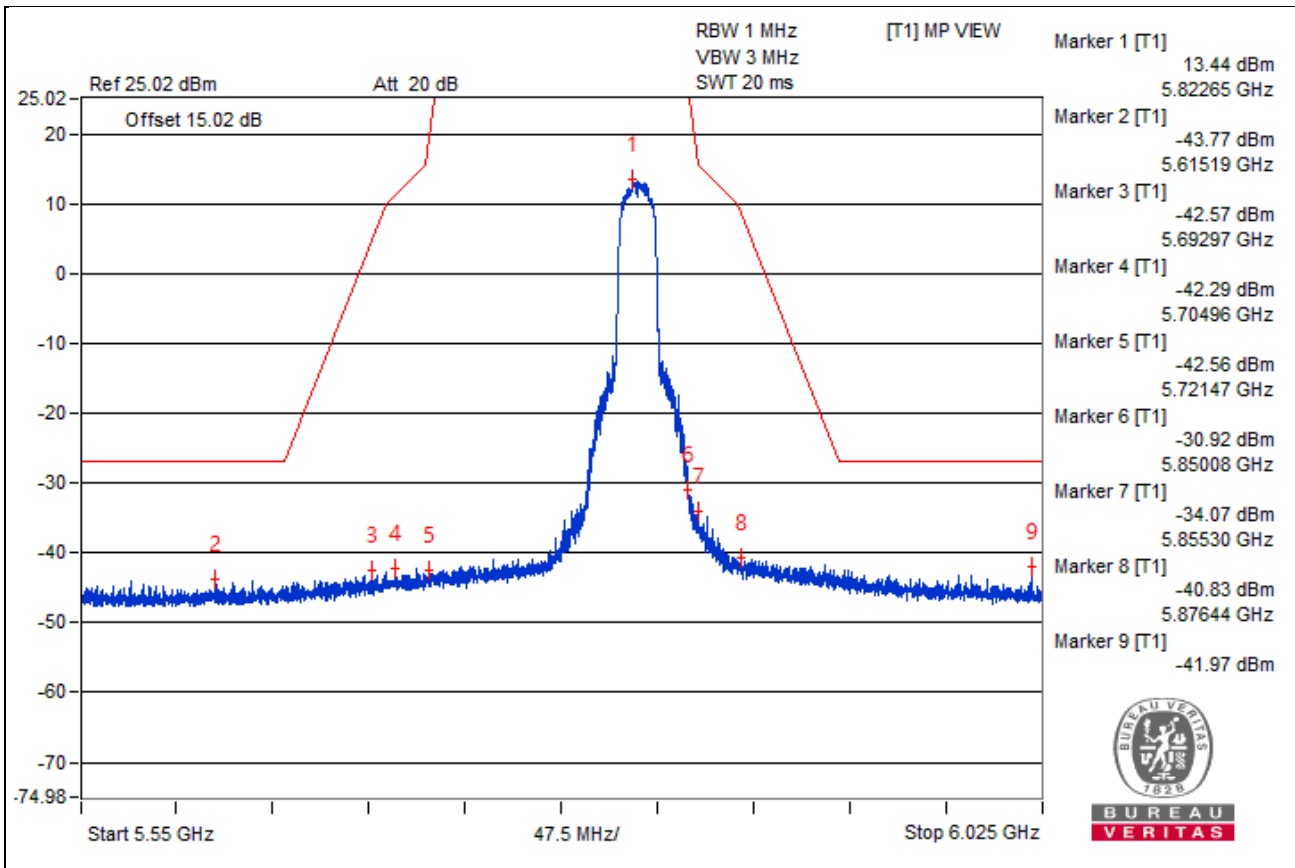
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5823.43 PK	107.87	*		8.96	3.65	12.61
2	3098.43 PK	51.79	68.2	-16.41	-47.12	3.65	-43.47
3	5823.43 PK	107.87	*		8.96	3.65	12.61
4	24870.62 PK	56.36	68.2	-11.84	-42.55	3.65	-38.9
5	39745 PK	56.42	74	-17.58	-42.49	3.65	-38.84
6	5826.56 AV	98.68	*		-0.23	3.65	3.42
7	3112.5 AV	30.13	#		-68.78	3.65	-65.13
8	5826.56 AV	98.68	*		-0.23	3.65	3.42
9	21644.87 AV	42.12	#		-56.79	3.65	-53.14
10	39722.5 AV	44.37	54	-9.63	-54.54	3.65	-50.89

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.52 dBi).
2. The test results were EIRP.

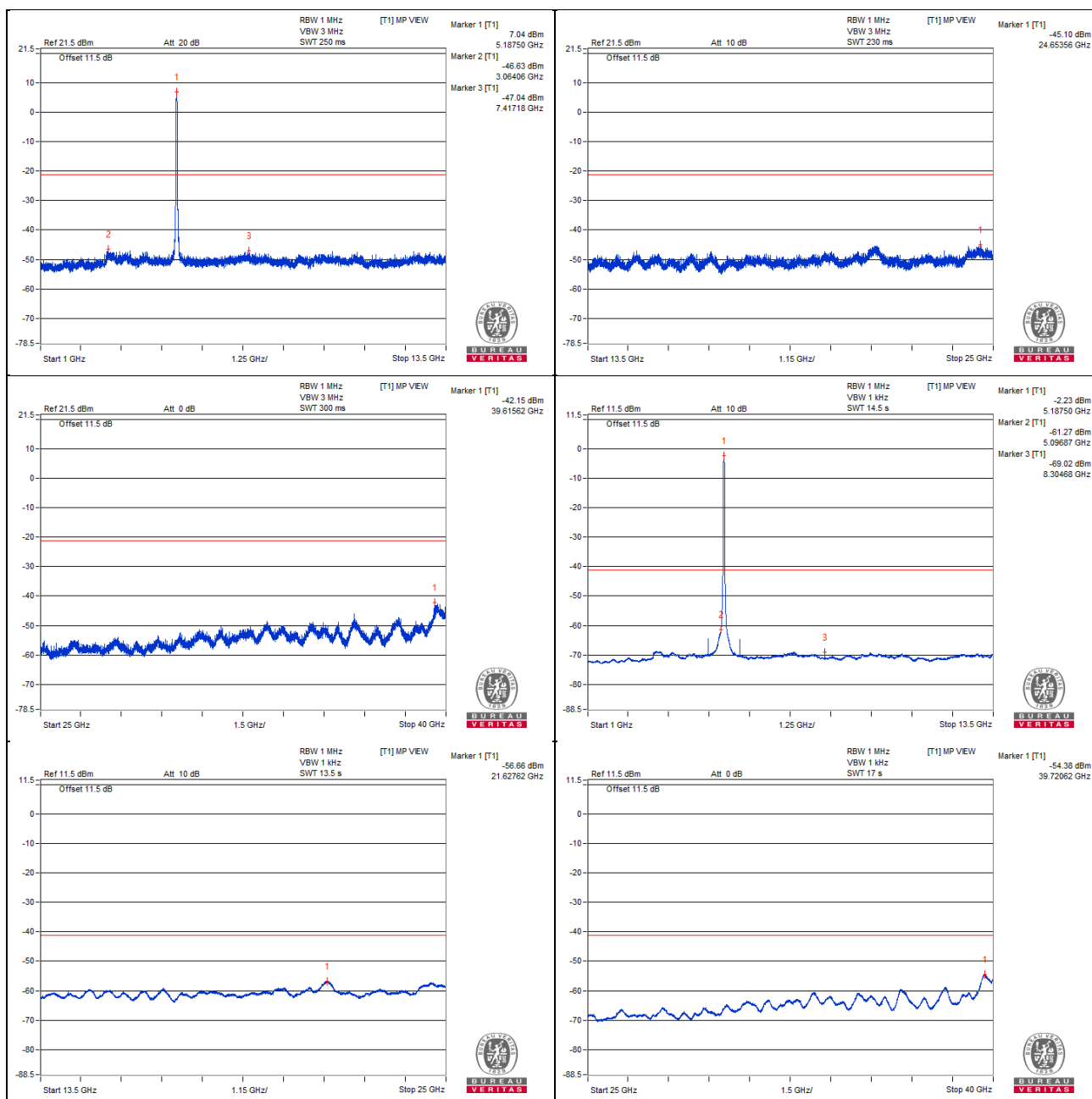
802.11ac (VHT40) - Channel 38

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	5187.5 PK	105.95	*		7.04	3.65	10.69
2	3064.06 PK	52.28	68.2	-15.92	-46.63	3.65	-42.98
3	7417.18 PK	51.87	74	-22.13	-47.04	3.65	-43.39
4	24653.56 PK	53.81	68.2	-14.39	-45.1	3.65	-41.45
5	39615.62 PK	56.76	74	-17.24	-42.15	3.65	-38.5
6	5187.5 AV	96.68	*		-2.23	3.65	1.42
7	5096.87 AV	37.64	54	-16.36	-61.27	3.65	-57.62
8	8304.68 AV	29.89	54	-24.11	-69.02	3.65	-65.37
9	21627.62 AV	42.25	#		-56.66	3.65	-53.01
10	39720.62 AV	44.53	54	-9.47	-54.38	3.65	-50.73

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

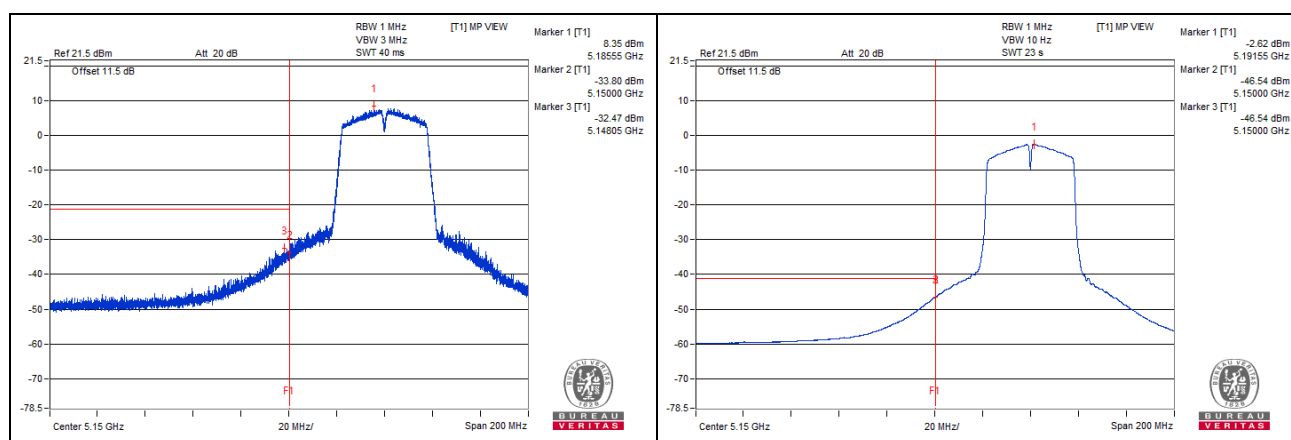


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5185.55 PK	107.04	*		8.35	3.43	11.78
2	5150 PK	64.89	74	-9.11	-33.8	3.43	-30.37
3	5148.05 PK	66.22	74	-7.78	-32.47	3.43	-29.04
4	5191.55 AV	96.07	*		-2.62	3.43	0.81
5	5150 AV	52.15	54	-1.85	-46.54	3.43	-43.11

Note :

- Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- * : Fundamental frequency, the limit was restricted at the output power.



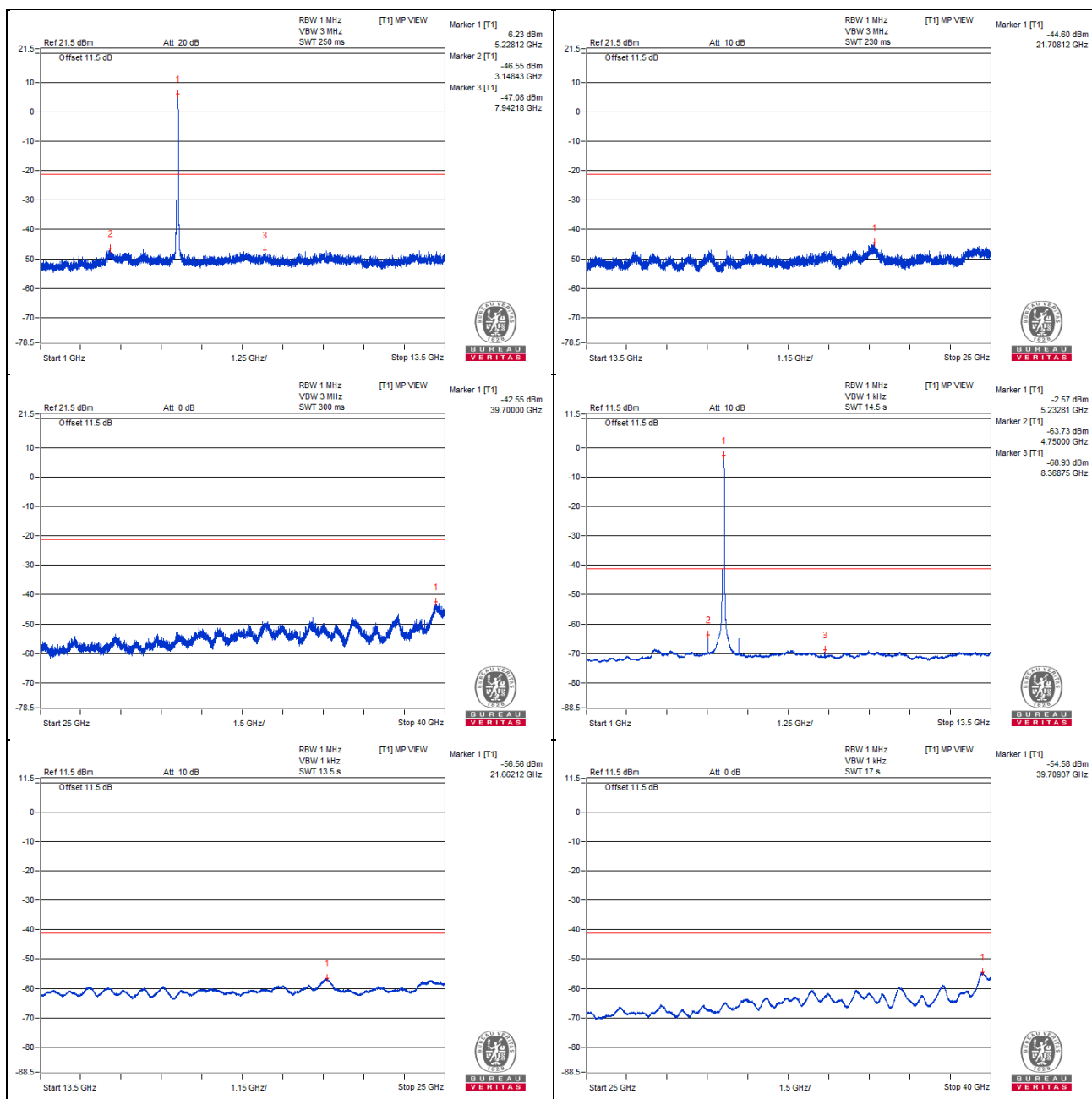
802.11ac (VHT40) - Channel 46

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	5228.12 PK	105.14	*		6.23	3.65	9.88
2	3148.43 PK	52.36	68.2	-15.84	-46.55	3.65	-42.9
3	7942.18 PK	51.83	68.2	-16.37	-47.08	3.65	-43.43
4	21708.12 PK	54.31	68.2	-13.89	-44.6	3.65	-40.95
5	39700 PK	56.36	74	-17.64	-42.55	3.65	-38.9
6	5232.81 AV	96.34	*		-2.57	3.65	1.08
7	4750 AV	35.18	54	-18.82	-63.73	3.65	-60.08
8	8368.75 AV	29.98	54	-24.02	-68.93	3.65	-65.28
9	21662.12 AV	42.35	#		-56.56	3.65	-52.91
10	39709.37 AV	44.33	54	-9.67	-54.58	3.65	-50.93

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

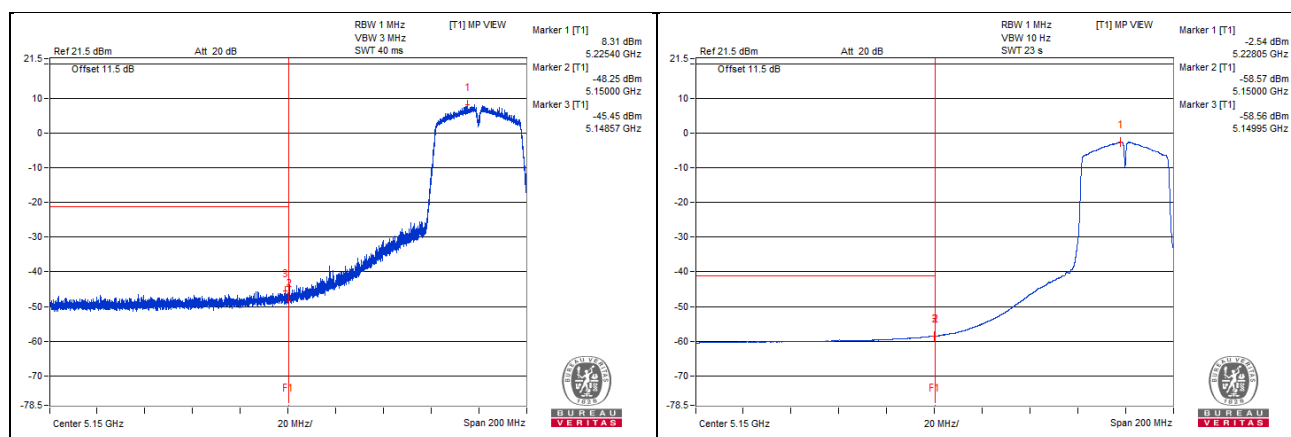


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5225.4 PK	107	*		8.31	3.43	11.74
2	5150 PK	50.44	74	-23.56	-48.25	3.43	-44.82
3	5148.57 PK	53.24	74	-20.76	-45.45	3.43	-42.02
4	5228.05 AV	96.15	*		-2.54	3.43	0.89
5	5150 AV	40.12	54	-13.88	-58.57	3.43	-55.14
6	5149.95 AV	40.13	54	-13.87	-58.56	3.43	-55.13

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.



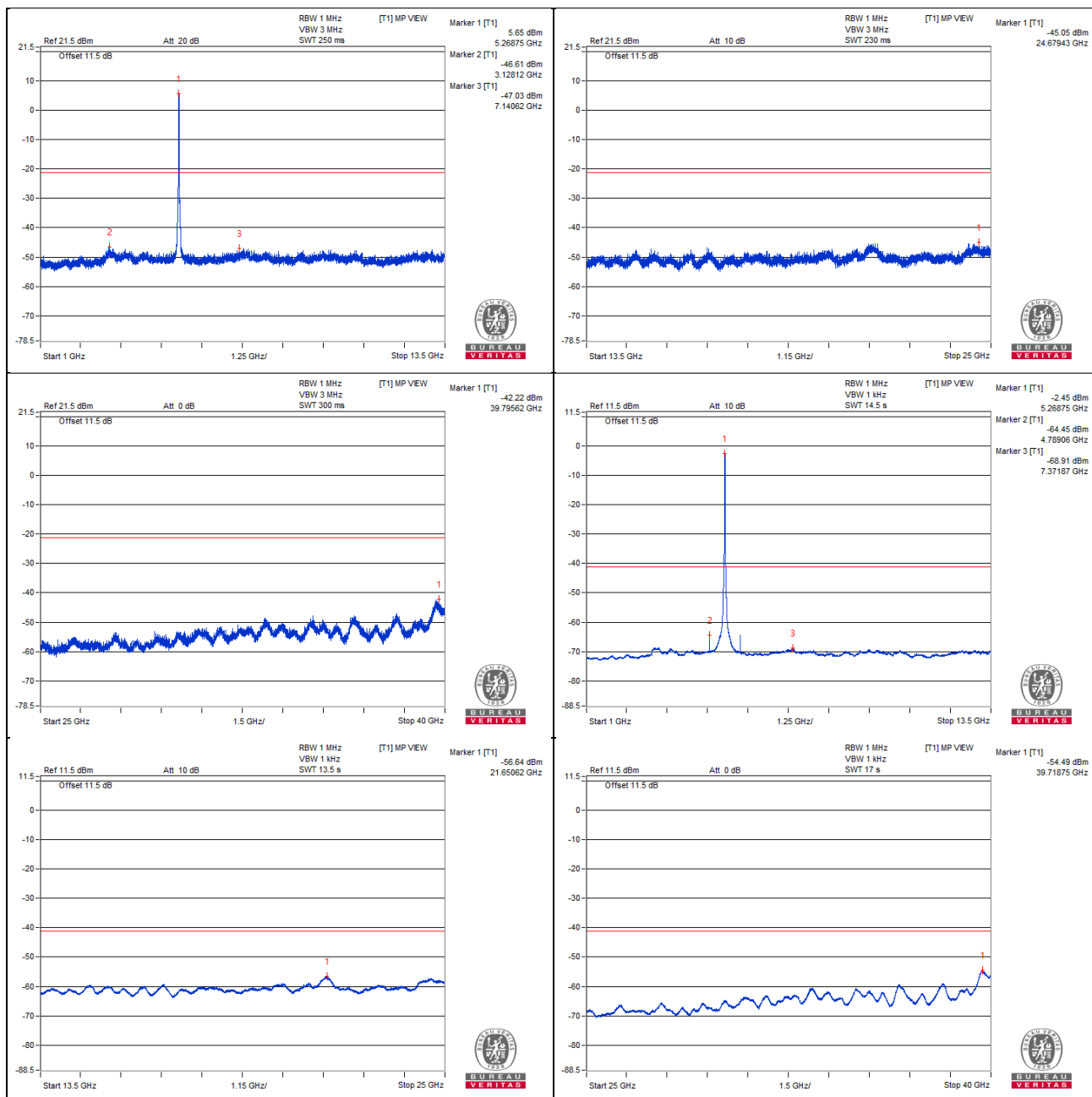
802.11ac (VHT40) - Channel 54

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	5268.75 PK	104.56	*		5.65	3.65	9.3
2	3128.12 PK	52.3	68.2	-15.9	-46.61	3.65	-42.96
3	7140.62 PK	51.88	68.2	-16.32	-47.03	3.65	-43.38
4	24679.43 PK	53.86	68.2	-14.34	-45.05	3.65	-41.4
5	39795.62 PK	56.69	74	-17.31	-42.22	3.65	-38.57
6	5268.75 AV	96.46	*		-2.45	3.65	1.2
7	4789.06 AV	34.46	54	-19.54	-64.45	3.65	-60.8
8	7371.87 AV	30	54	-24	-68.91	3.65	-65.26
9	21650.62 AV	42.27	#		-56.64	3.65	-52.99
10	39718.75 AV	44.42	54	-9.58	-54.49	3.65	-50.84

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

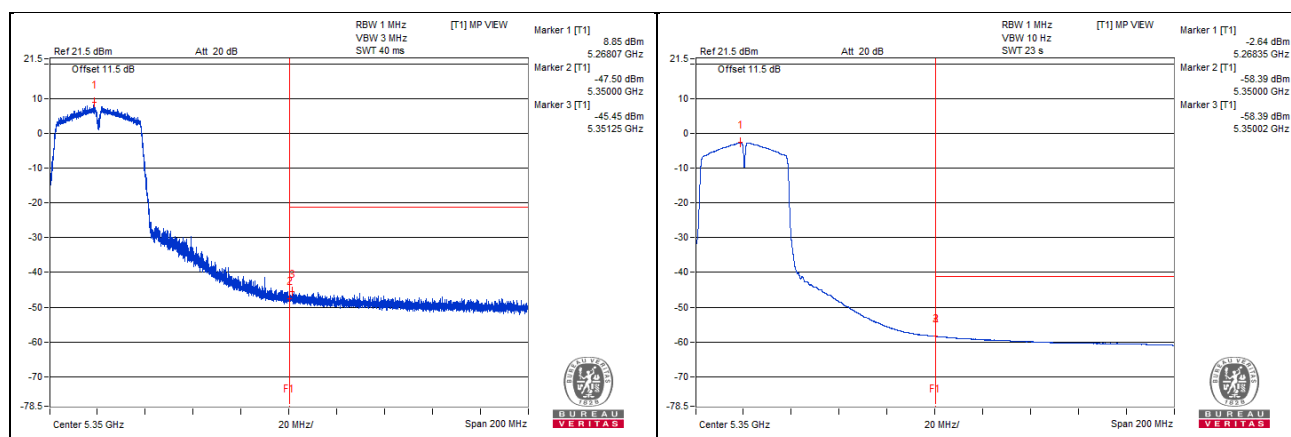


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5268.07 PK	107.76	*		8.85	3.65	12.5
2	5350 PK	51.41	74	-22.59	-47.5	3.65	-43.85
3	5351.25 PK	53.46	74	-20.54	-45.45	3.65	-41.8
4	5268.35 AV	96.27	*		-2.64	3.65	1.01
5	5350 AV	40.52	54	-13.48	-58.39	3.65	-54.74
6	5350.02 AV	40.52	54	-13.48	-58.39	3.65	-54.74

Note :

1. Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.



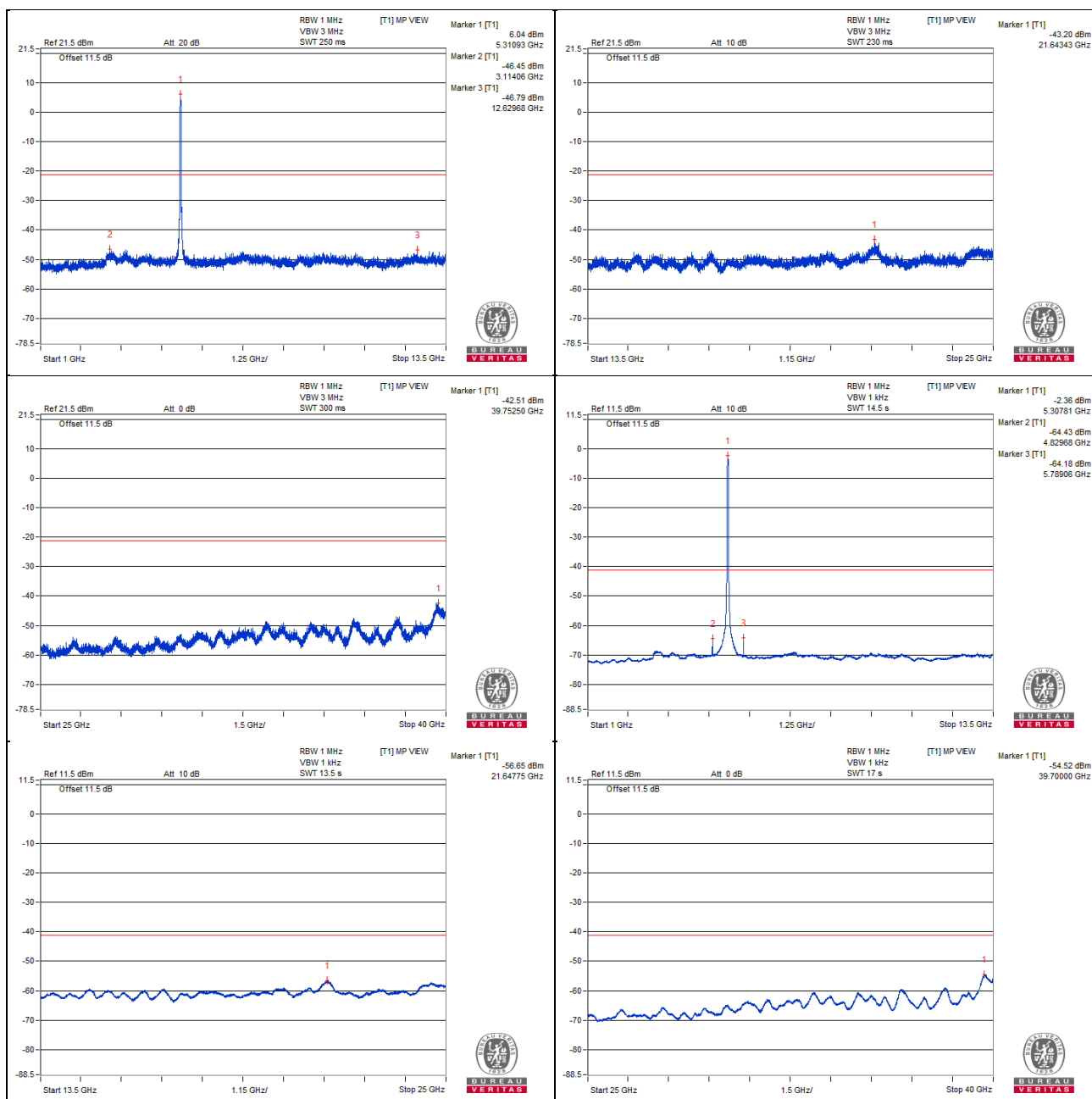
802.11ac (VHT40) - Channel 62

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	5310.93 PK	104.95	*		6.04	3.65	9.69
2	3114.06 PK	52.46	68.2	-15.74	-46.45	3.65	-42.8
3	12629.68 PK	52.12	74	-21.88	-46.79	3.65	-43.14
4	21643.43 PK	55.71	68.2	-12.49	-43.2	3.65	-39.55
5	39752.5 PK	56.4	74	-17.6	-42.51	3.65	-38.86
6	5307.81 AV	96.55	*		-2.36	3.65	1.29
7	4829.68 AV	34.48	54	-19.52	-64.43	3.65	-60.78
8	5789.06 AV	34.73	#		-64.18	3.65	-60.53
9	21647.75 AV	42.26	#		-56.65	3.65	-53
10	39700 AV	44.39	54	-9.61	-54.52	3.65	-50.87

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

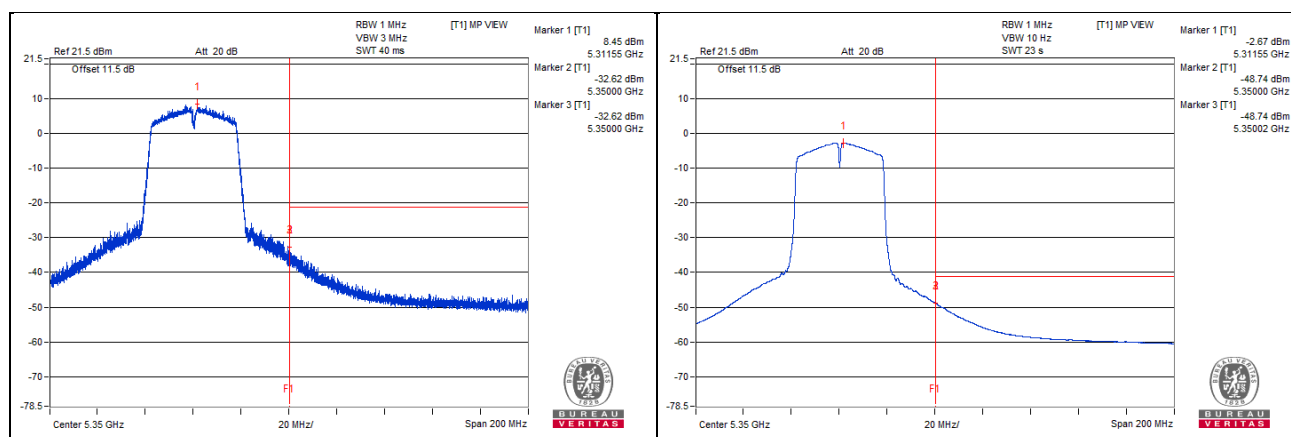


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5311.55 PK	107.36	*		8.45	3.65	12.1
2	5350 PK	66.29	74	-7.71	-32.62	3.65	-28.97
3	5350 PK	66.29	74	-7.71	-32.62	3.65	-28.97
4	5311.55 AV	96.24	*		-2.67	3.65	0.98
5	5350 AV	50.17	54	-3.83	-48.74	3.65	-45.09
6	5350.02 AV	50.17	54	-3.83	-48.74	3.65	-45.09

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.



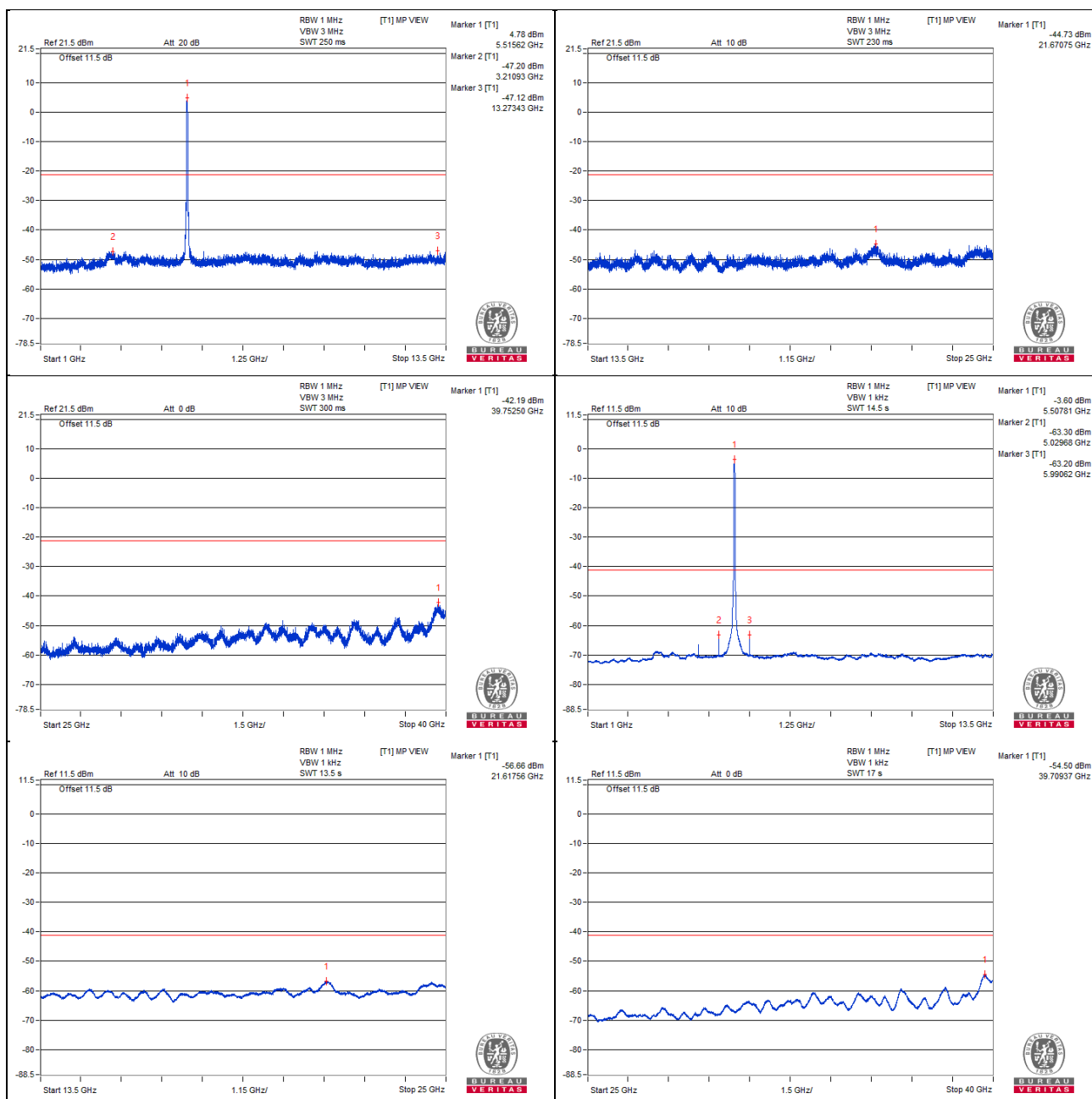
802.11ac (VHT40) - Channel 102

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	5515.62 PK	103.69	*		4.78	3.65	8.43
2	3210.93 PK	51.71	68.2	-16.49	-47.2	3.65	-43.55
3	13273.43 PK	51.79	74	-22.21	-47.12	3.65	-43.47
4	21670.75 PK	54.18	68.2	-14.02	-44.73	3.65	-41.08
5	39752.5 PK	56.72	74	-17.28	-42.19	3.65	-38.54
6	5507.81 AV	95.31	*		-3.6	3.65	0.05
7	5029.68 AV	35.61	54	-18.39	-63.3	3.65	-59.65
8	5990.62 AV	35.71	#		-63.2	3.65	-59.55
9	21617.56 AV	42.25	#		-56.66	3.65	-53.01
10	39709.37 AV	44.41	54	-9.59	-54.5	3.65	-50.85

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

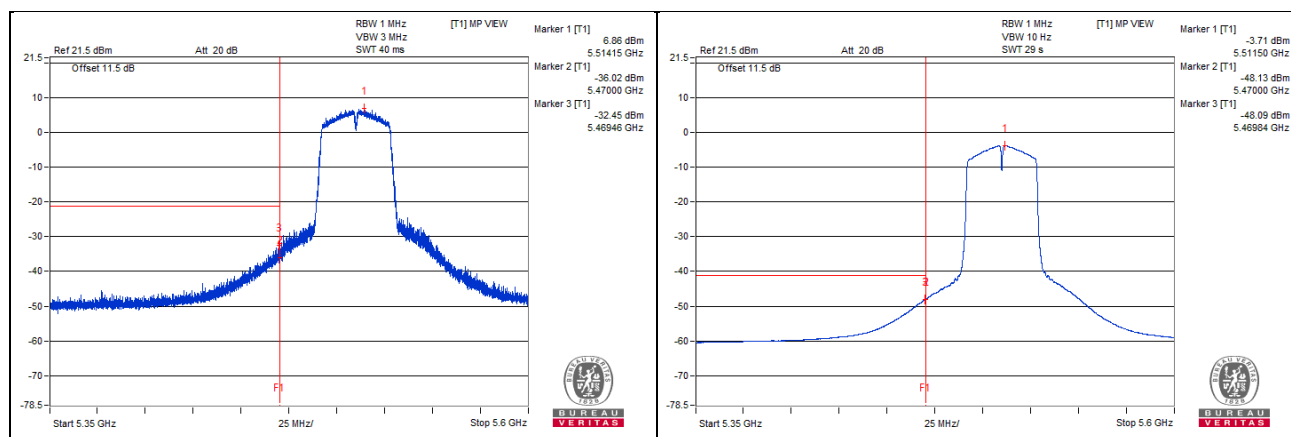


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5514.15 PK	105.34	*		6.86	3.22	10.08
2	5470 PK	62.46	68.2	-5.74	-36.02	3.22	-32.8
3	5469.46 PK	66.03	68.2	-2.17	-32.45	3.22	-29.23
4	5511.5 AV	94.77	*		-3.71	3.22	-0.49
5	5470 AV	50.35	#		-48.13	3.22	-44.91
6	5469.84 AV	50.39	#		-48.09	3.22	-44.87

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



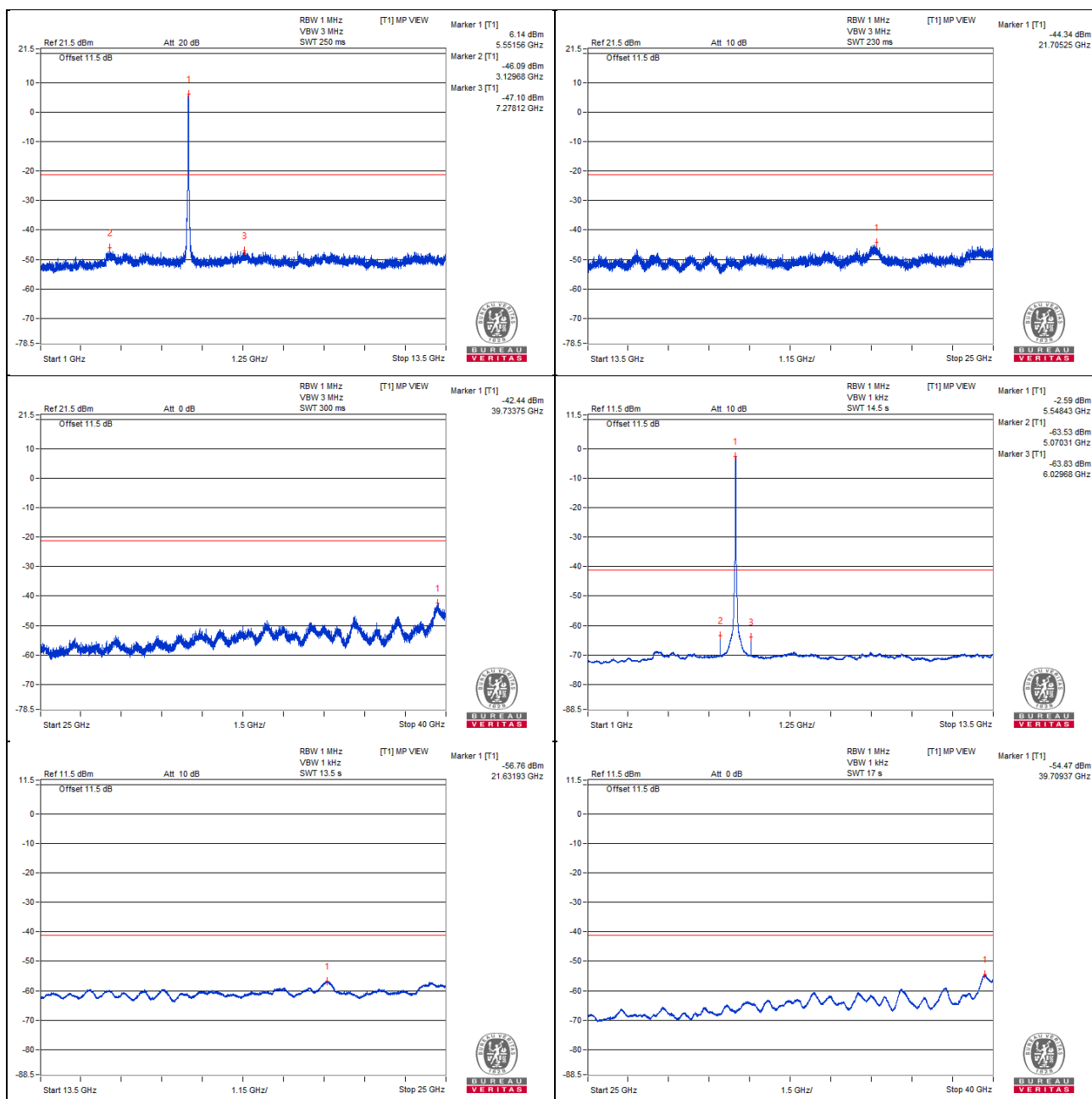
802.11ac (VHT40) - Channel 110

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	5551.56 PK	105.05	*		6.14	3.65	9.79
2	3129.68 PK	52.82	68.2	-15.38	-46.09	3.65	-42.44
3	7278.12 PK	51.81	74	-22.19	-47.1	3.65	-43.45
4	21705.25 PK	54.57	68.2	-13.63	-44.34	3.65	-40.69
5	39733.75 PK	56.47	74	-17.53	-42.44	3.65	-38.79
6	5548.43 AV	96.32	*		-2.59	3.65	1.06
7	5070.31 AV	35.38	54	-18.62	-63.53	3.65	-59.88
8	6029.68 AV	35.08	#		-63.83	3.65	-60.18
9	21631.93 AV	42.15	#		-56.76	3.65	-53.11
10	39709.37 AV	44.44	54	-9.56	-54.47	3.65	-50.82

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

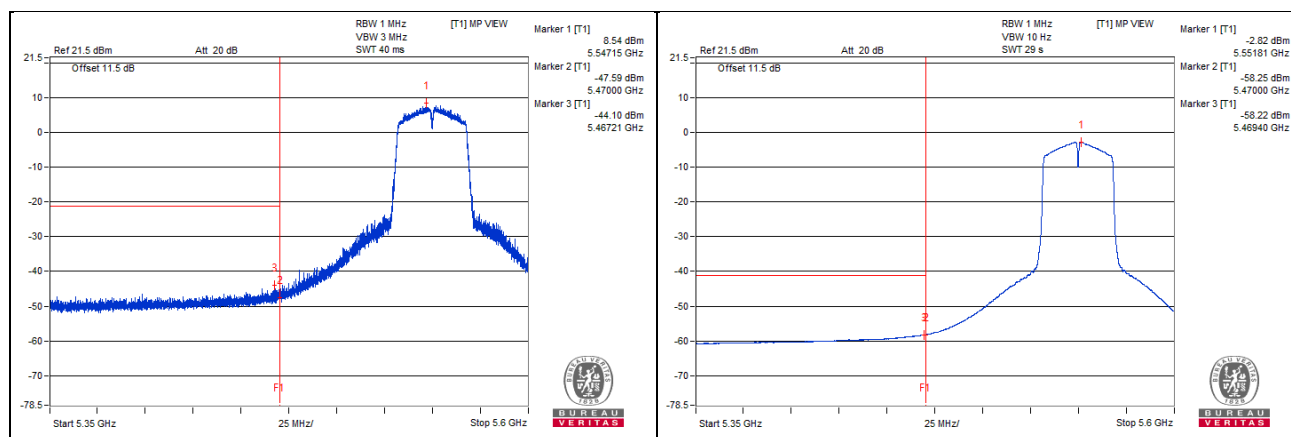


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5547.15 PK	107.02	*		8.54	3.22	11.76
2	5470 PK	50.89	68.2	-17.31	-47.59	3.22	-44.37
3	5467.21 PK	54.38	68.2	-13.82	-44.1	3.22	-40.88
4	5551.81 AV	95.66	*		-2.82	3.22	0.4
5	5470 AV	40.23	#		-58.25	3.22	-55.03
6	5469.4 AV	40.26	#		-58.22	3.22	-55

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



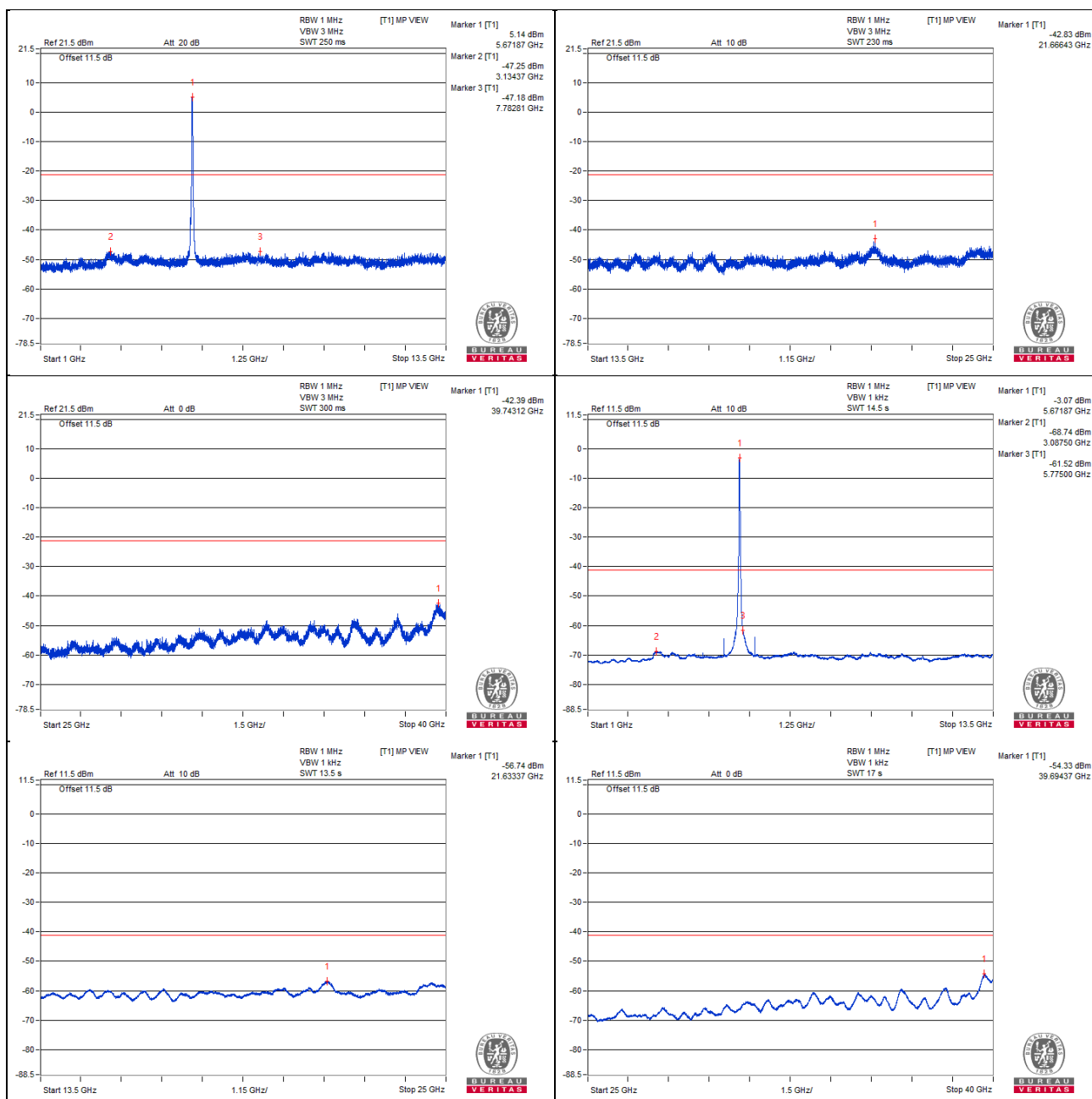
802.11ac (VHT40) - Channel 134

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	5671.87 PK	104.05	*		5.14	3.65	8.79
2	3134.37 PK	51.66	68.2	-16.54	-47.25	3.65	-43.6
3	7782.81 PK	51.73	68.2	-16.47	-47.18	3.65	-43.53
4	21666.43 PK	56.08	68.2	-12.12	-42.83	3.65	-39.18
5	39743.12 PK	56.52	74	-17.48	-42.39	3.65	-38.74
6	5671.87 AV	95.84	*		-3.07	3.65	0.58
7	3087.5 AV	30.17	#		-68.74	3.65	-65.09
8	5775 AV	37.39	#		-61.52	3.65	-57.87
9	21633.37 AV	42.17	#		-56.74	3.65	-53.09
10	39694.37 AV	44.58	54	-9.42	-54.33	3.65	-50.68

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

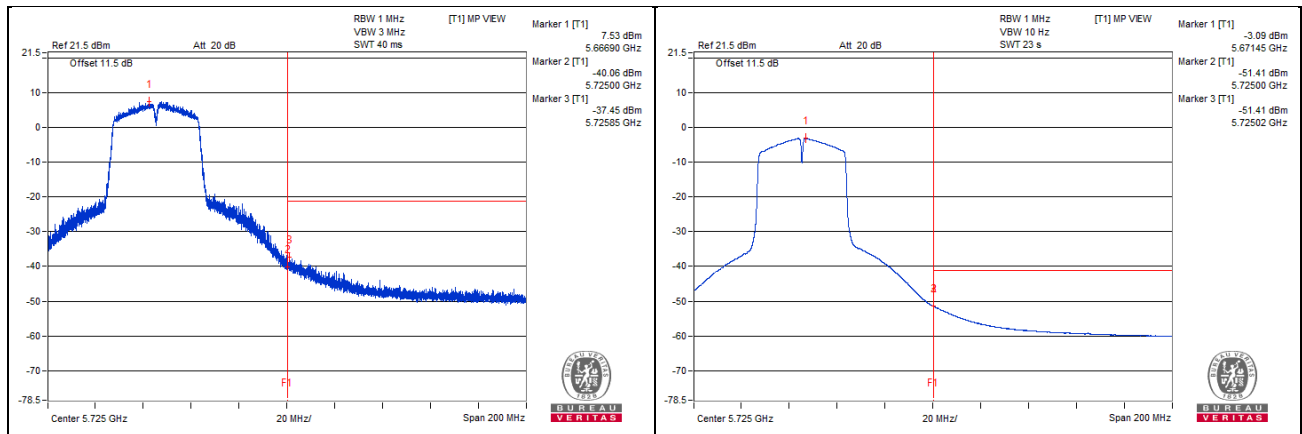


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5666.9 PK	106.01	*		7.53	3.22	10.75
2	5725 PK	58.42	68.2	-9.78	-40.06	3.22	-36.84
3	5725.85 PK	61.03	68.2	-7.17	-37.45	3.22	-34.23
4	5671.45 AV	95.39	*		-3.09	3.22	0.13
5	5725 AV	47.07	#		-51.41	3.22	-48.19
6	5725.02 AV	47.07	#		-51.41	3.22	-48.19

Note :

1. Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



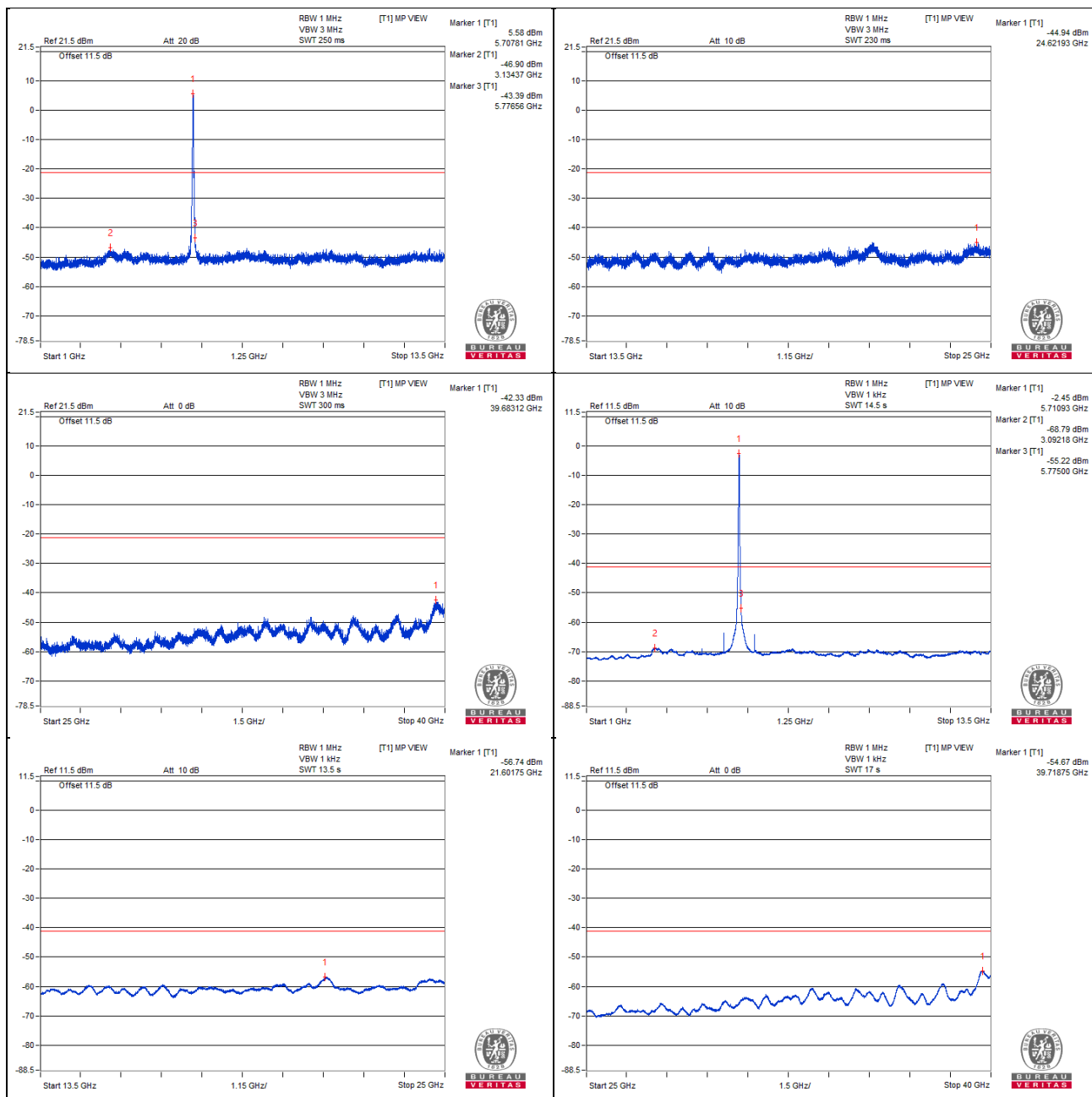
802.11ac (VHT40) - Channel 142

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	5707.81 PK	104.49	*		5.58	3.65	9.23
2	3134.37 PK	52.01	68.2	-16.19	-46.9	3.65	-43.25
3	5776.56 PK	55.52	68.2	-12.68	-43.39	3.65	-39.74
4	24621.93 PK	53.97	68.2	-14.23	-44.94	3.65	-41.29
5	39683.12 PK	56.58	74	-17.42	-42.33	3.65	-38.68
6	5710.93 AV	96.46	*		-2.45	3.65	1.2
7	3092.18 AV	30.12	#		-68.79	3.65	-65.14
8	5775 AV	43.69	#		-55.22	3.65	-51.57
9	21601.75 AV	42.17	#		-56.74	3.65	-53.09
10	39718.75 AV	44.24	54	-9.76	-54.67	3.65	-51.02

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

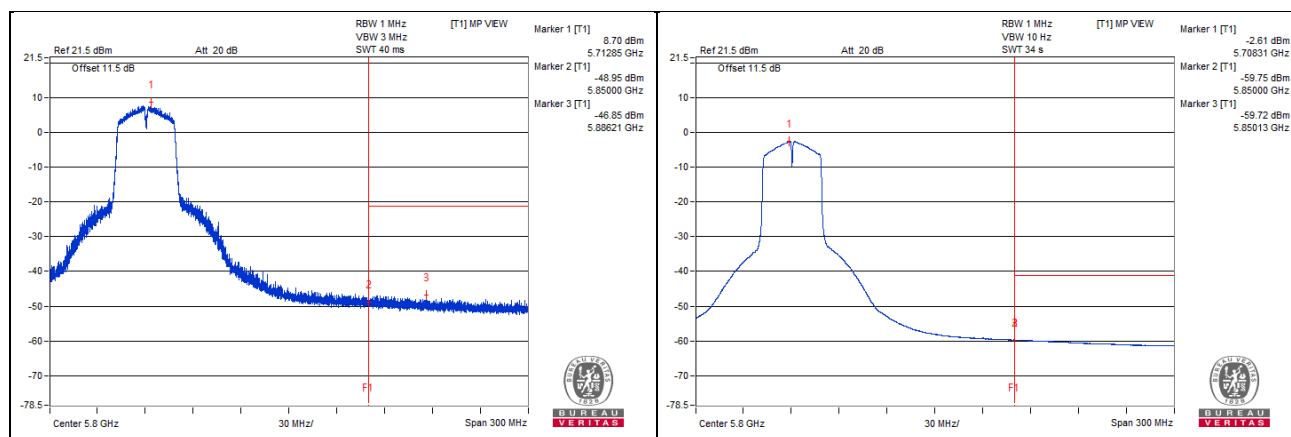


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5712.85 PK	107.48	*		8.7	3.52	12.22
2	5850 PK	49.83	68.2	-18.37	-48.95	3.52	-45.43
3	5886.21 PK	51.93	68.2	-16.27	-46.85	3.52	-43.33
4	5708.31 AV	96.17	*		-2.61	3.52	0.91
5	5850 AV	39.03	#		-59.75	3.52	-56.23
6	5850.13 AV	39.06	#		-59.72	3.52	-56.2

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



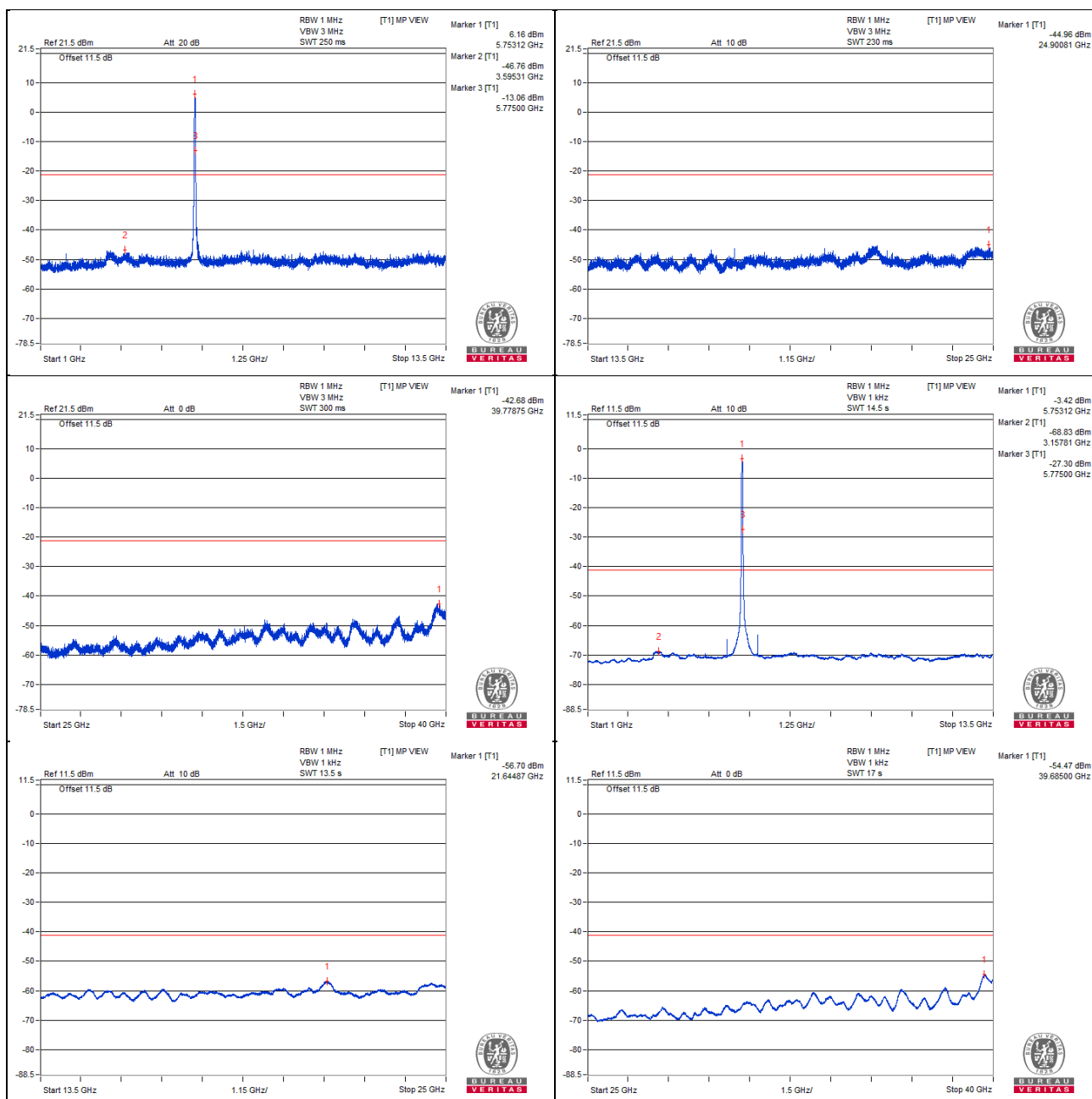
802.11ac (VHT40) – Channel 151

Conducted spurious emission table

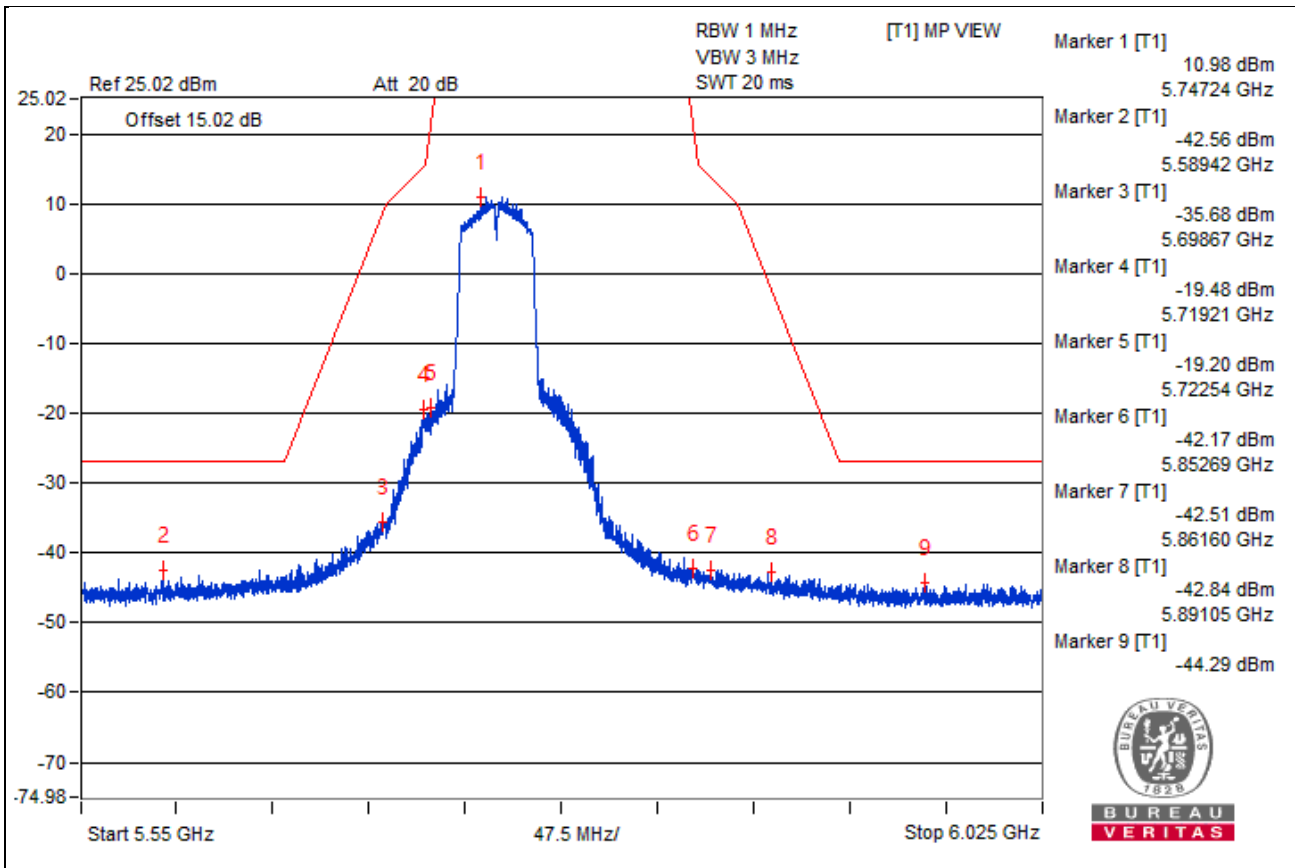
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5753.12 PK	105.07	*		6.16	3.65	9.81
2	3595.31 PK	52.15	74	-21.85	-46.76	3.65	-43.11
3	24900.81 PK	53.95	68.2	-14.25	-44.96	3.65	-41.31
4	39778.75 PK	56.23	74	-17.77	-42.68	3.65	-39.03
5	5753.12 AV	95.49	*		-3.42	3.65	0.23
6	3157.81 AV	30.08	#		-68.83	3.65	-65.18
7	5775 AV	71.61	#		-27.3	3.65	-23.65
8	21644.87 AV	42.21	#		-56.7	3.65	-53.05
9	39685 AV	44.44	54	-9.56	-54.47	3.65	-50.82

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.52 dBi).
2. The test results were EIRP.

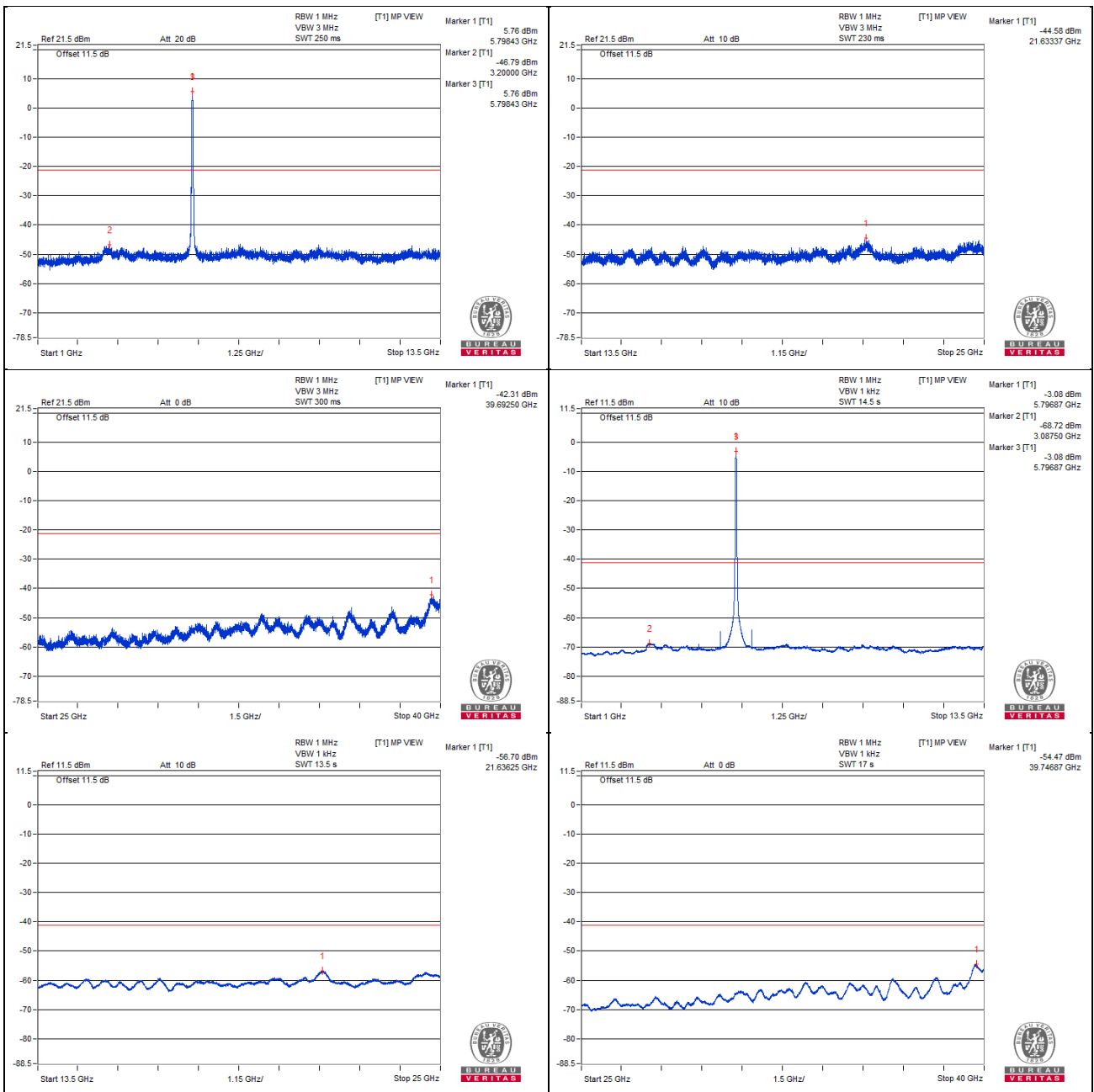
802.11ac (VHT40) – Channel 159

Conducted spurious emission table

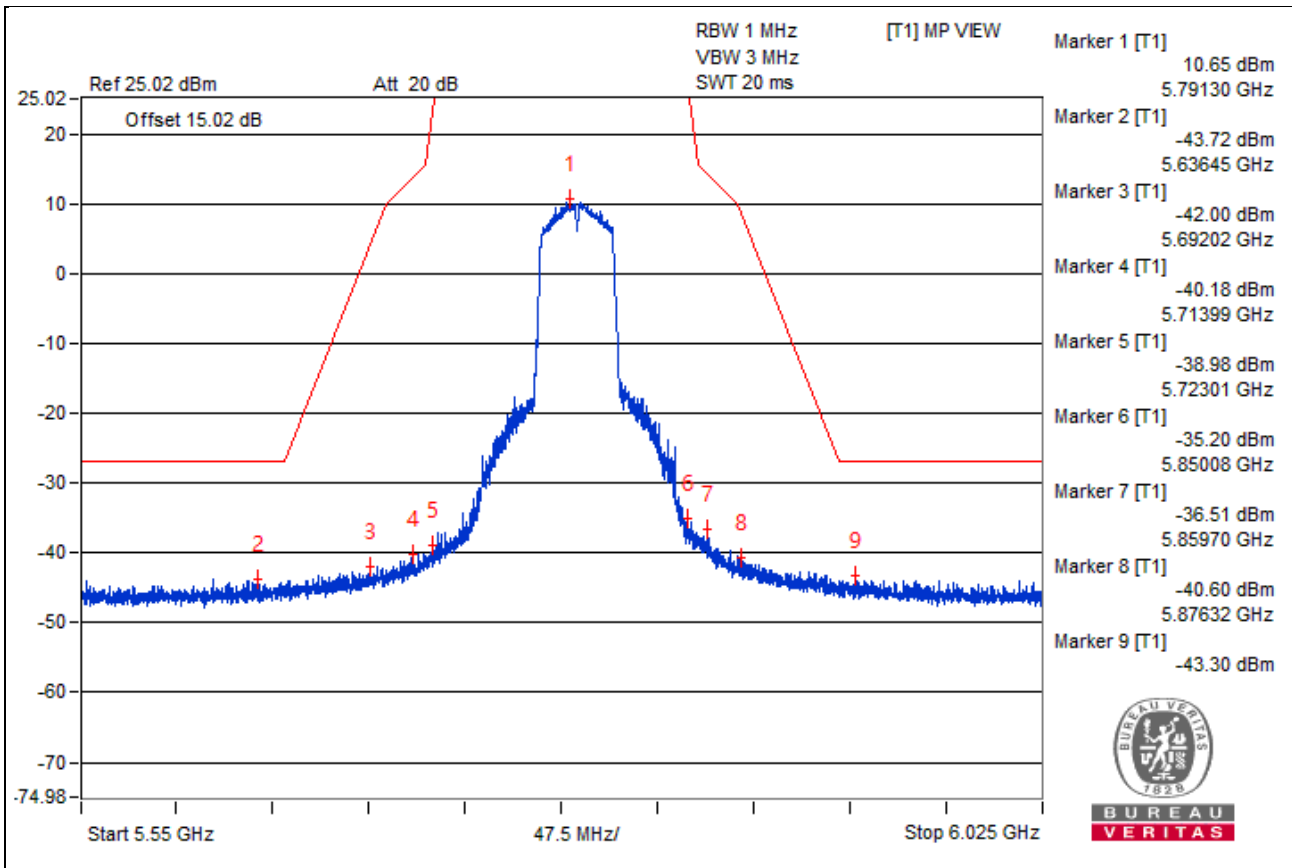
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5798.43 PK	104.67	*		5.76	3.65	9.41
2	3200 PK	52.12	68.2	-16.08	-46.79	3.65	-43.14
3	5798.43 PK	104.67	*		5.76	3.65	9.41
4	21633.37 PK	54.33	68.2	-13.87	-44.58	3.65	-40.93
5	39692.5 PK	56.6	74	-17.4	-42.31	3.65	-38.66
6	5796.87 AV	95.83	*		-3.08	3.65	0.57
7	3087.5 AV	30.19	#		-68.72	3.65	-65.07
8	5796.87 AV	95.83	*		-3.08	3.65	0.57
9	21636.25 AV	42.21	#		-56.7	3.65	-53.05
10	39746.87 AV	44.44	54	-9.56	-54.47	3.65	-50.82

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.52 dBi).
2. The test results were EIRP.

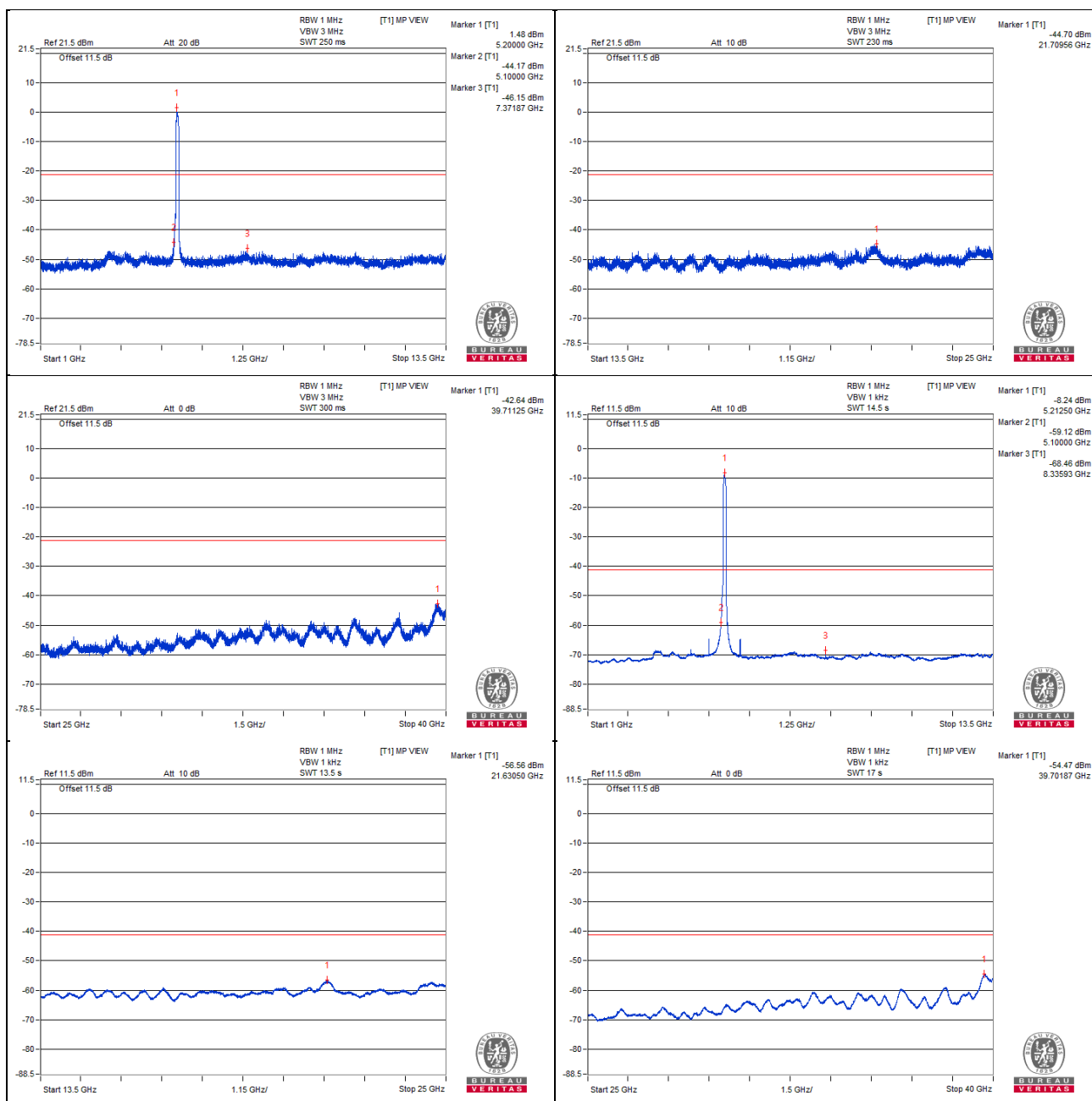
802.11ac (VHT80) - Channel 42

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	5200 PK	100.39	*		1.48	3.65	5.13
2	5100 PK	54.74	74	-19.26	-44.17	3.65	-40.52
3	7371.87 PK	52.76	74	-21.24	-46.15	3.65	-42.5
4	21709.56 PK	54.21	68.2	-13.99	-44.7	3.65	-41.05
5	39711.25 PK	56.27	74	-17.73	-42.64	3.65	-38.99
6	5212.5 AV	90.67	*		-8.24	3.65	-4.59
7	5100 AV	39.79	54	-14.21	-59.12	3.65	-55.47
8	8335.93 AV	30.45	54	-23.55	-68.46	3.65	-64.81
9	21630.5 AV	42.35	#		-56.56	3.65	-52.91
10	39701.87 AV	44.44	54	-9.56	-54.47	3.65	-50.82

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

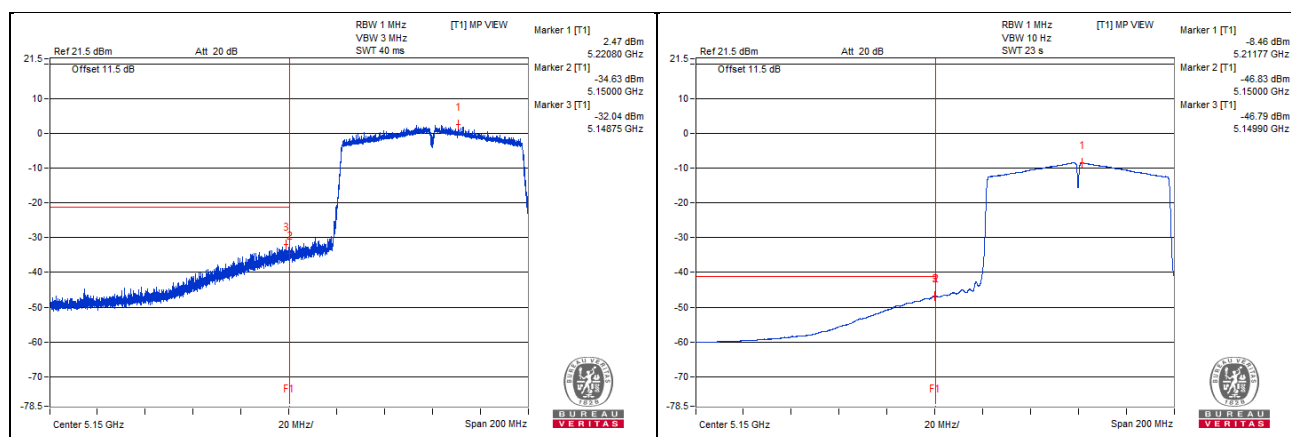


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5220.8 PK	101.16	*		2.47	3.43	5.9
2	5150 PK	64.06	74	-9.94	-34.63	3.43	-31.2
3	5148.75 PK	66.65	74	-7.35	-32.04	3.43	-28.61
4	5211.77 AV	90.23	*		-8.46	3.43	-5.03
5	5150 AV	51.86	54	-2.14	-46.83	3.43	-43.4
6	5149.9 AV	51.9	54	-2.1	-46.79	3.43	-43.36

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.



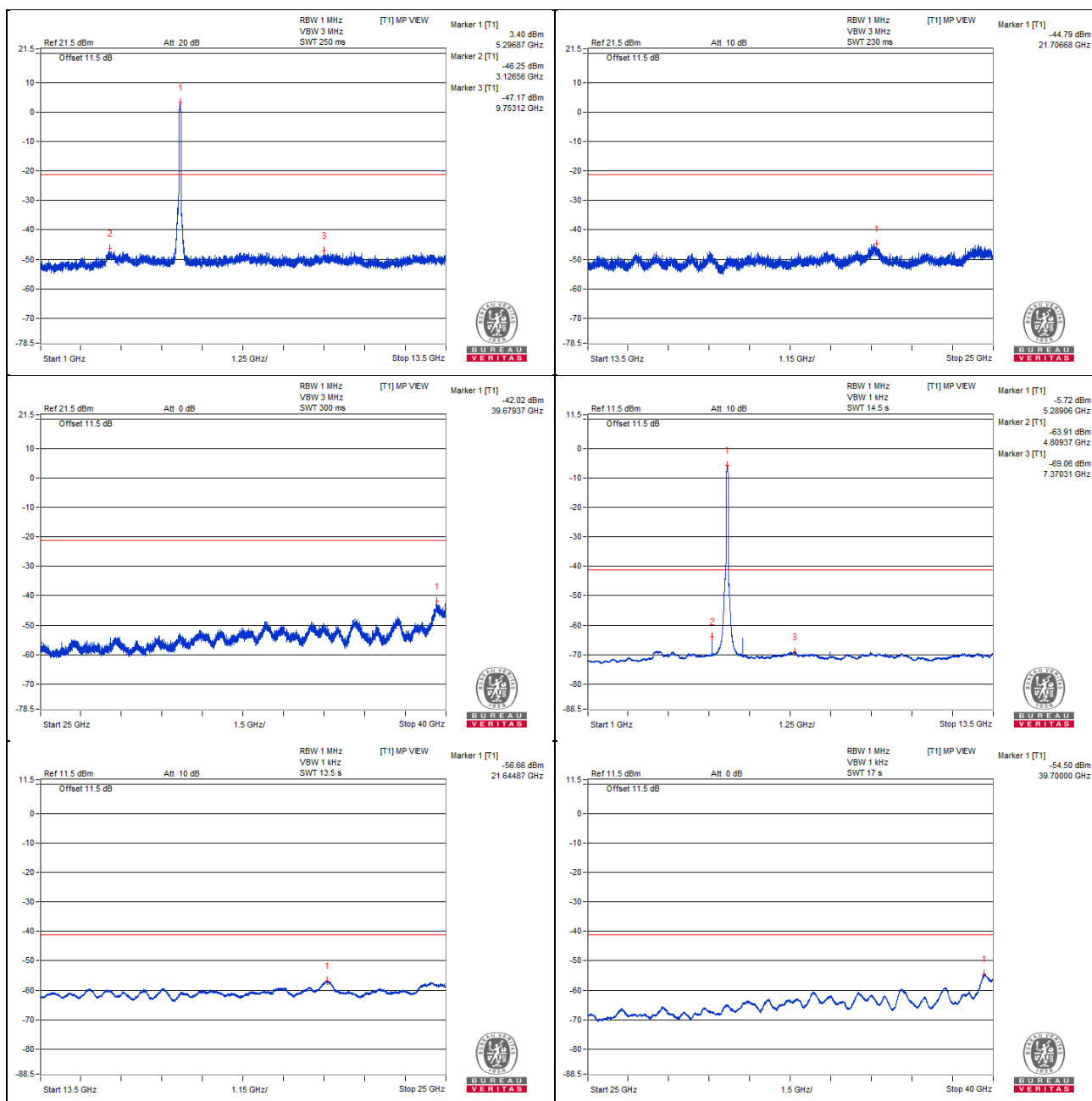
802.11ac (VHT80) - Channel 58

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	5296.87 PK	102.31	*		3.4	3.65	7.05
2	3126.56 PK	52.66	68.2	-15.54	-46.25	3.65	-42.6
3	9753.12 PK	51.74	68.2	-16.46	-47.17	3.65	-43.52
4	21706.68 PK	54.12	68.2	-14.08	-44.79	3.65	-41.14
5	39679.37 PK	56.89	74	-17.11	-42.02	3.65	-38.37
6	5289.06 AV	93.19	*		-5.72	3.65	-2.07
7	4809.37 AV	35	54	-19	-63.91	3.65	-60.26
8	7370.31 AV	29.85	54	-24.15	-69.06	3.65	-65.41
9	21644.87 AV	42.25	#		-56.66	3.65	-53.01
10	39700 AV	44.41	54	-9.59	-54.5	3.65	-50.85

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

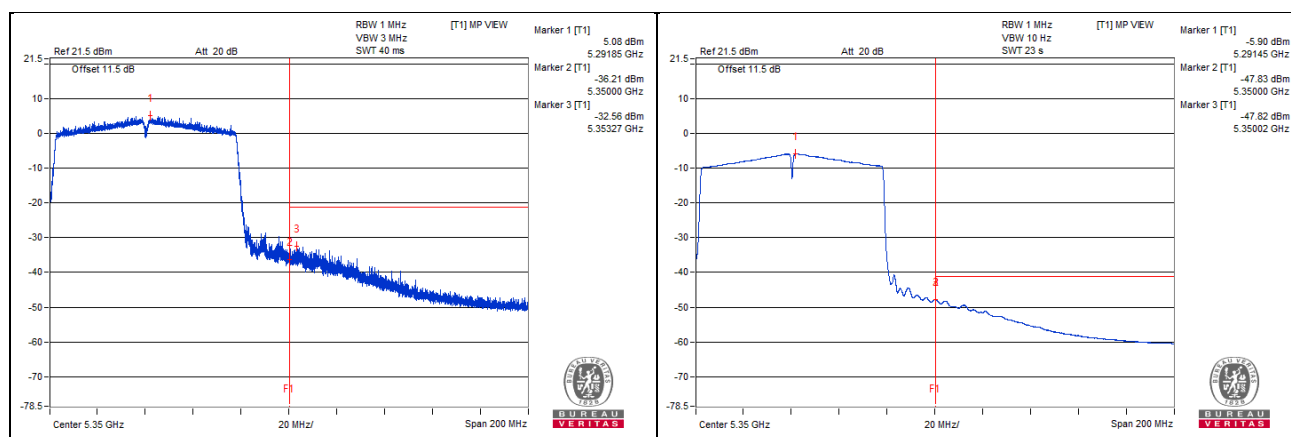


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5291.85 PK	103.99	*		5.08	3.65	8.73
2	5350 PK	62.7	74	-11.3	-36.21	3.65	-32.56
3	5353.27 PK	66.35	74	-7.65	-32.56	3.65	-28.91
4	5291.45 AV	93.01	*		-5.9	3.65	-2.25
5	5350 AV	51.08	54	-2.92	-47.83	3.65	-44.18
6	5350.02 AV	51.09	54	-2.91	-47.82	3.65	-44.17

Note :

1. Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.



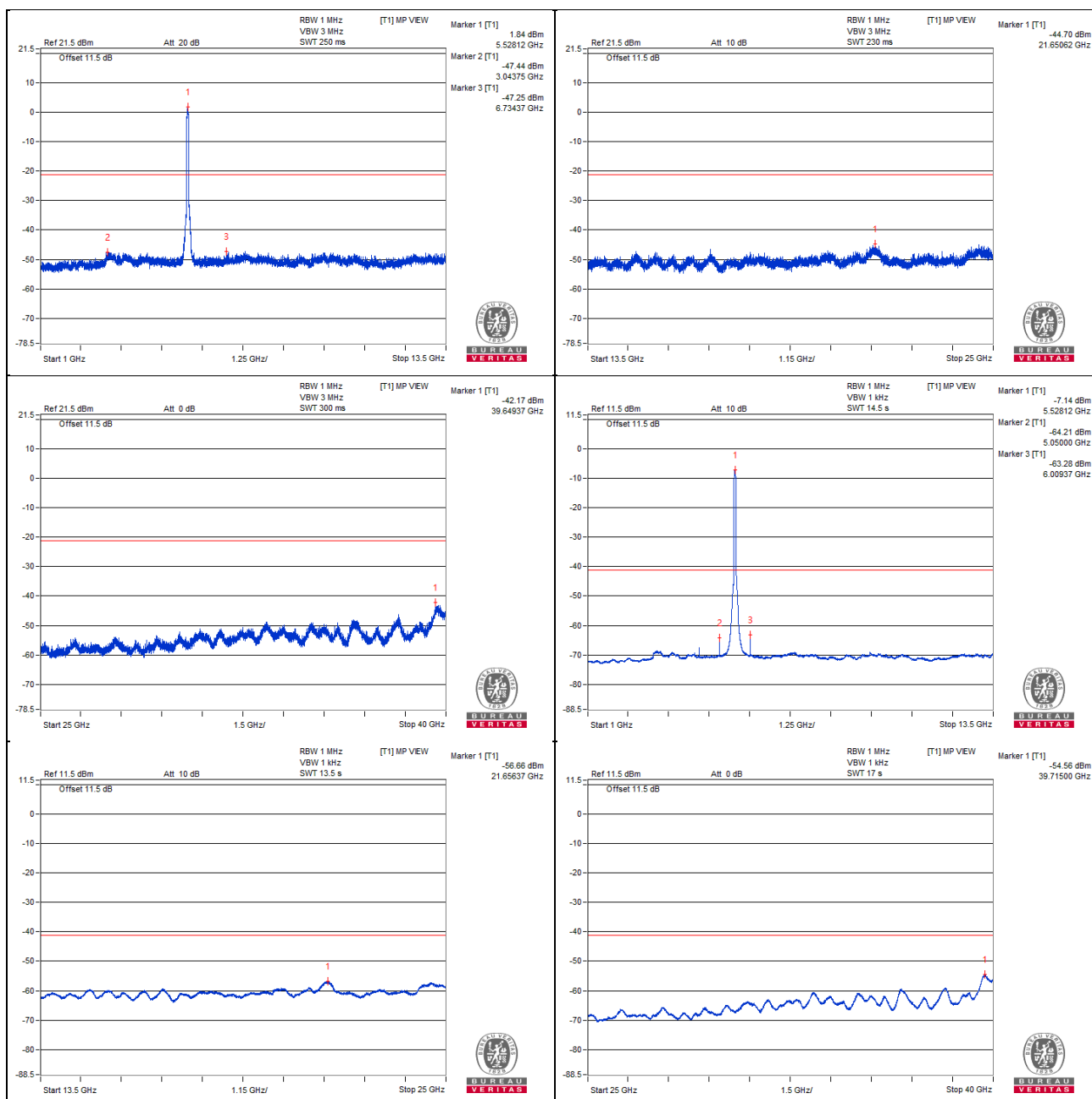
802.11ac (VHT80) - Channel 106

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	5528.12 PK	100.75	*		1.84	3.65	5.49
2	3043.75 PK	51.47	68.2	-16.73	-47.44	3.65	-43.79
3	6734.37 PK	51.66	68.2	-16.54	-47.25	3.65	-43.6
4	21650.62 PK	54.21	68.2	-13.99	-44.7	3.65	-41.05
5	39649.37 PK	56.74	74	-17.26	-42.17	3.65	-38.52
6	5528.12 AV	91.77	*		-7.14	3.65	-3.49
7	5050 AV	34.7	54	-19.3	-64.21	3.65	-60.56
8	6009.37 AV	35.63	#		-63.28	3.65	-59.63
9	21656.37 AV	42.25	#		-56.66	3.65	-53.01
10	39715 AV	44.35	54	-9.65	-54.56	3.65	-50.91

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

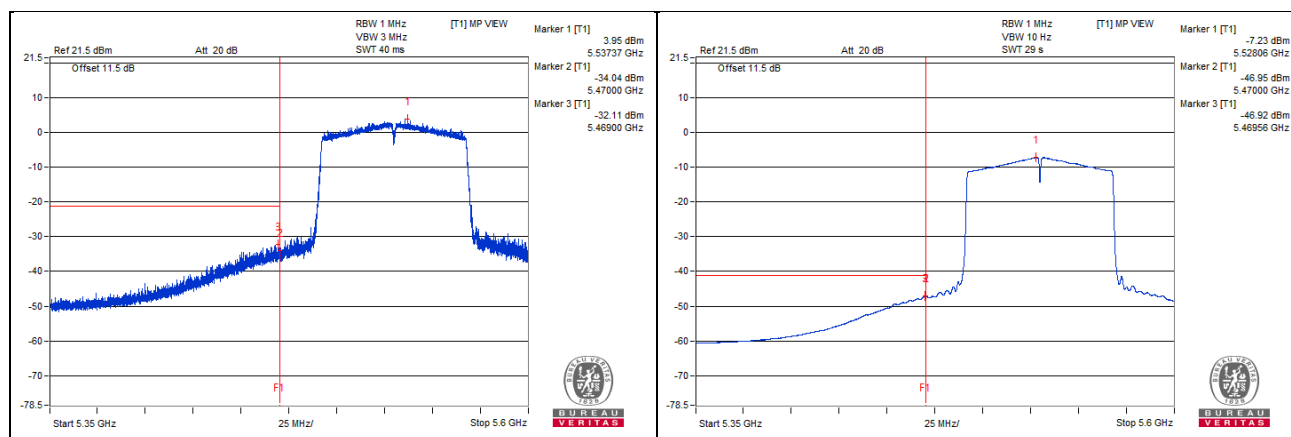


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5537.37 PK	102.43	*		3.95	3.22	7.17
2	5470 PK	64.44	68.2	-3.76	-34.04	3.22	-30.82
3	5469 PK	66.37	68.2	-1.83	-32.11	3.22	-28.89
4	5528.06 AV	91.25	*		-7.23	3.22	-4.01
5	5470 AV	51.53	#		-46.95	3.22	-43.73
6	5469.56 AV	51.56	#		-46.92	3.22	-43.7

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



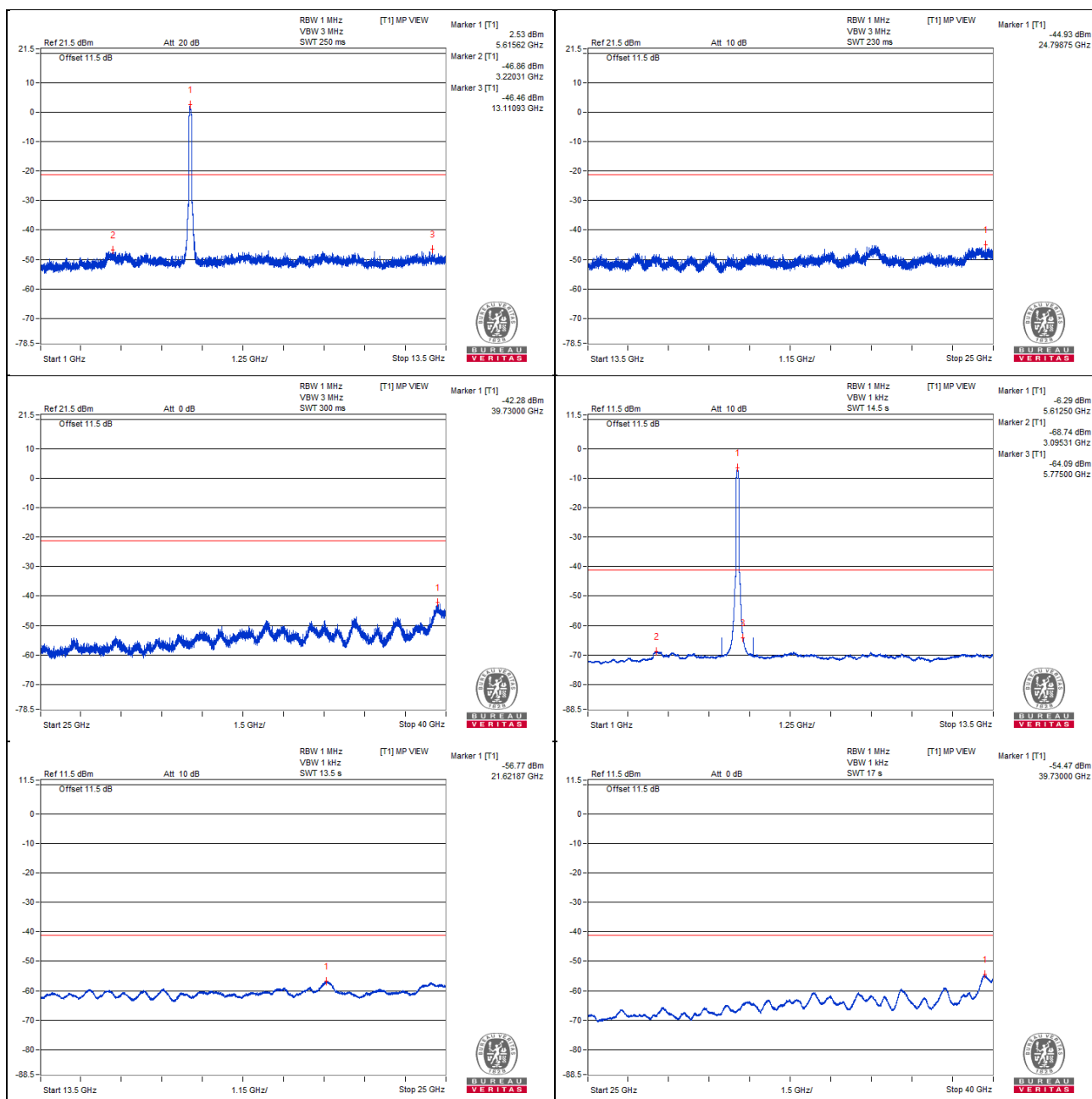
802.11ac (VHT80) - Channel 122

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	5615.62 PK	101.44	*		2.53	3.65	6.18
2	3220.31 PK	52.05	68.2	-16.15	-46.86	3.65	-43.21
3	13110.93 PK	52.45	68.2	-15.75	-46.46	3.65	-42.81
4	24798.75 PK	53.98	68.2	-14.22	-44.93	3.65	-41.28
5	39730 PK	56.63	74	-17.37	-42.28	3.65	-38.63
6	5612.5 AV	92.62	*		-6.29	3.65	-2.64
7	3095.31 AV	30.17	#		-68.74	3.65	-65.09
8	5775 AV	34.82	#		-64.09	3.65	-60.44
9	21621.87 AV	42.14	#		-56.77	3.65	-53.12
10	39730 AV	44.44	54	-9.56	-54.47	3.65	-50.82

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

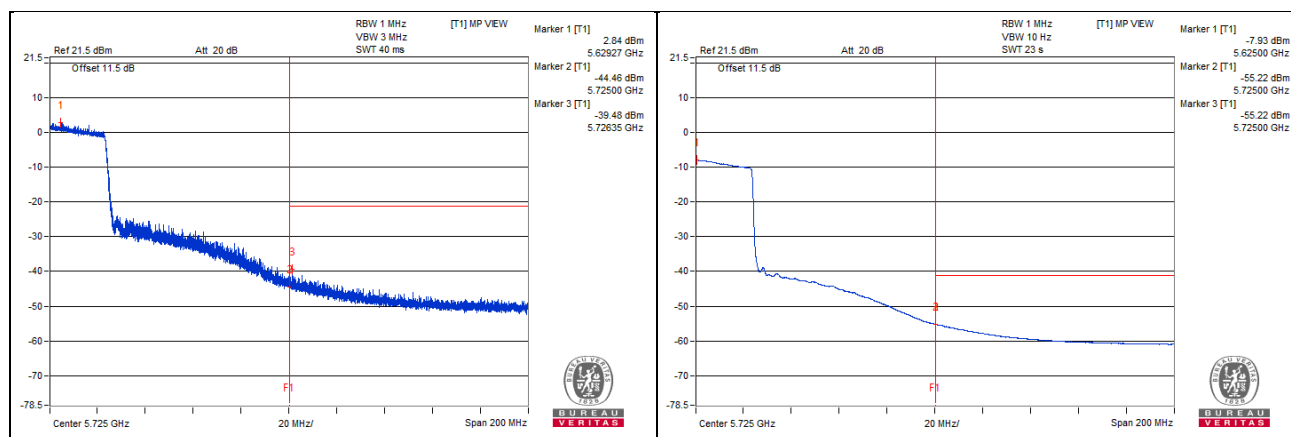


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5629.27 PK	101.32	*		2.84	3.22	6.06
2	5725 PK	54.02	68.2	-14.18	-44.46	3.22	-41.24
3	5726.35 PK	59	68.2	-9.2	-39.48	3.22	-36.26
4	5625 AV	90.55	*		-7.93	3.22	-4.71
5	5725 AV	43.26	#		-55.22	3.22	-52
6	5725 AV	43.26	#		-55.22	3.22	-52

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



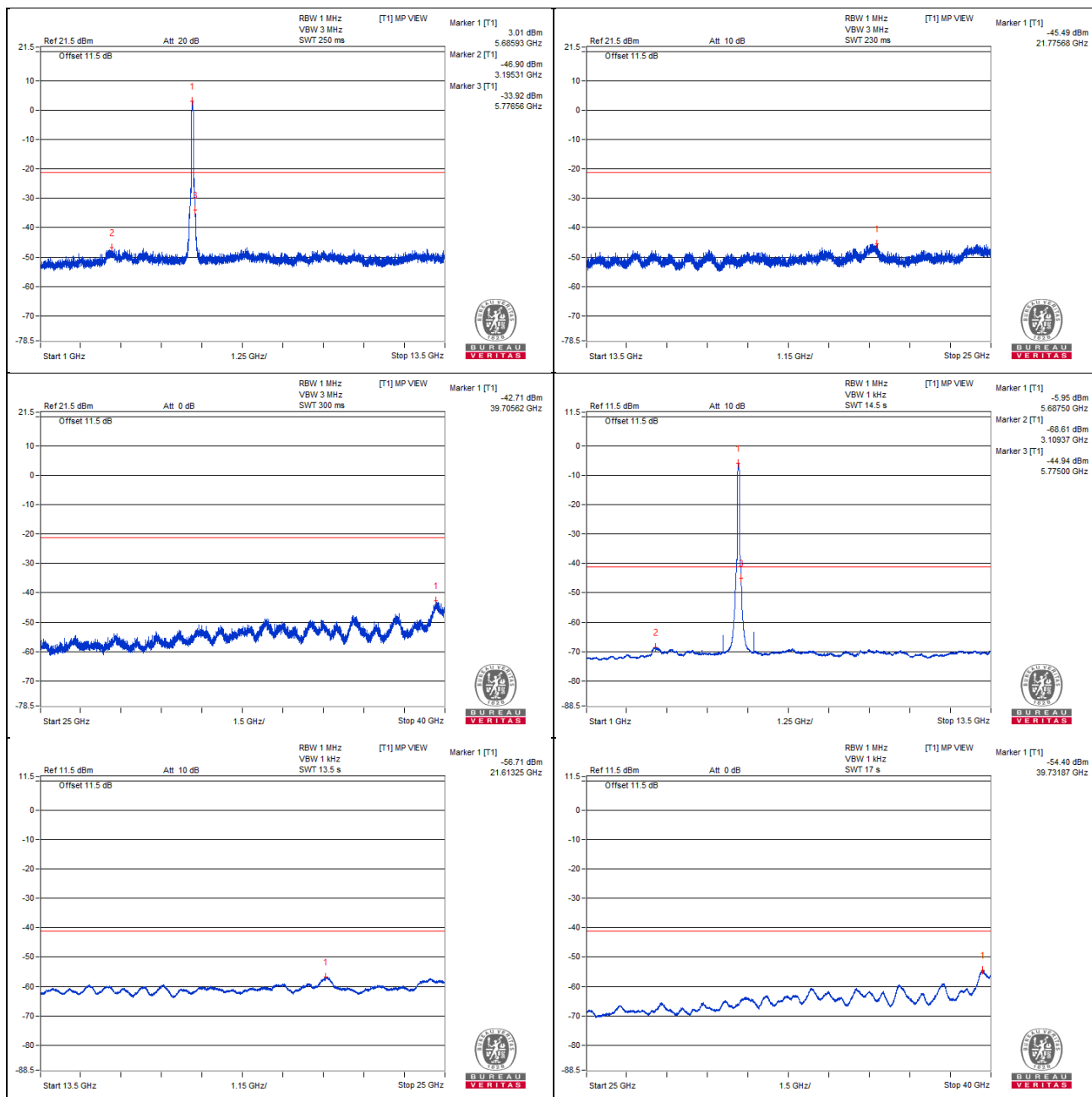
802.11ac (VHT80) - Channel 138

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	5685.93 PK	101.92	*		3.01	3.65	6.66
2	3195.31 PK	52.01	68.2	-16.19	-46.9	3.65	-43.25
3	5776.56 PK	64.99	68.2	-3.21	-33.92	3.65	-30.27
4	21775.68 PK	53.42	68.2	-14.78	-45.49	3.65	-41.84
5	39705.62 PK	56.2	74	-17.8	-42.71	3.65	-39.06
6	5687.5 AV	92.96	*		-5.95	3.65	-2.3
7	3109.37 AV	30.3	#		-68.61	3.65	-64.96
8	5775 AV	53.97	#		-44.94	3.65	-41.29
9	21613.25 AV	42.2	#		-56.71	3.65	-53.06
10	39731.87 AV	44.51	54	-9.49	-54.4	3.65	-50.75

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.

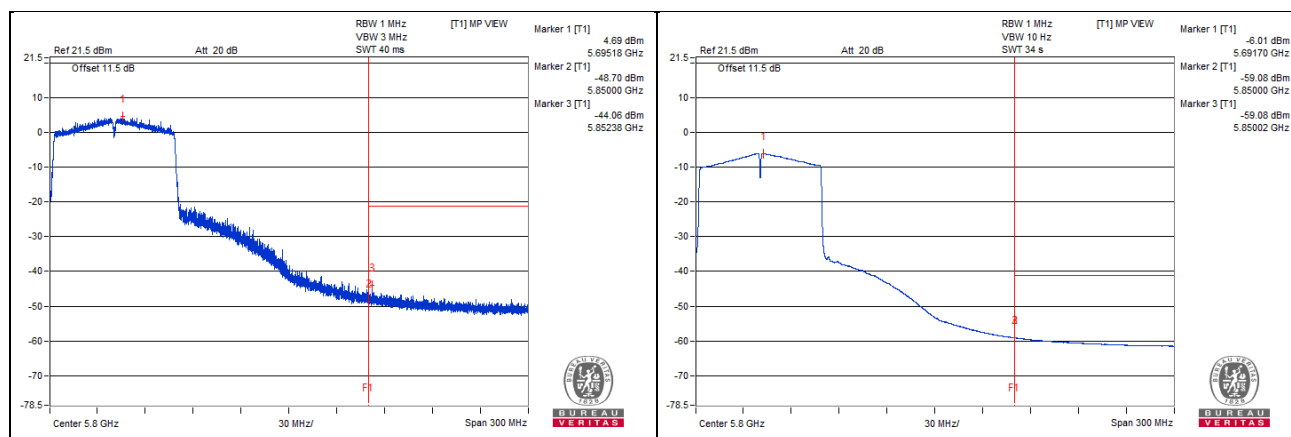


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5695.18 PK	103.47	*		4.69	3.52	8.21
2	5850 PK	50.08	68.2	-18.12	-48.7	3.52	-45.18
3	5852.38 PK	54.72	68.2	-13.48	-44.06	3.52	-40.54
4	5691.7 AV	92.77	*		-6.01	3.52	-2.49
5	5850 AV	39.7	#		-59.08	3.52	-55.56
6	5850.02 AV	39.7	#		-59.08	3.52	-55.56

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



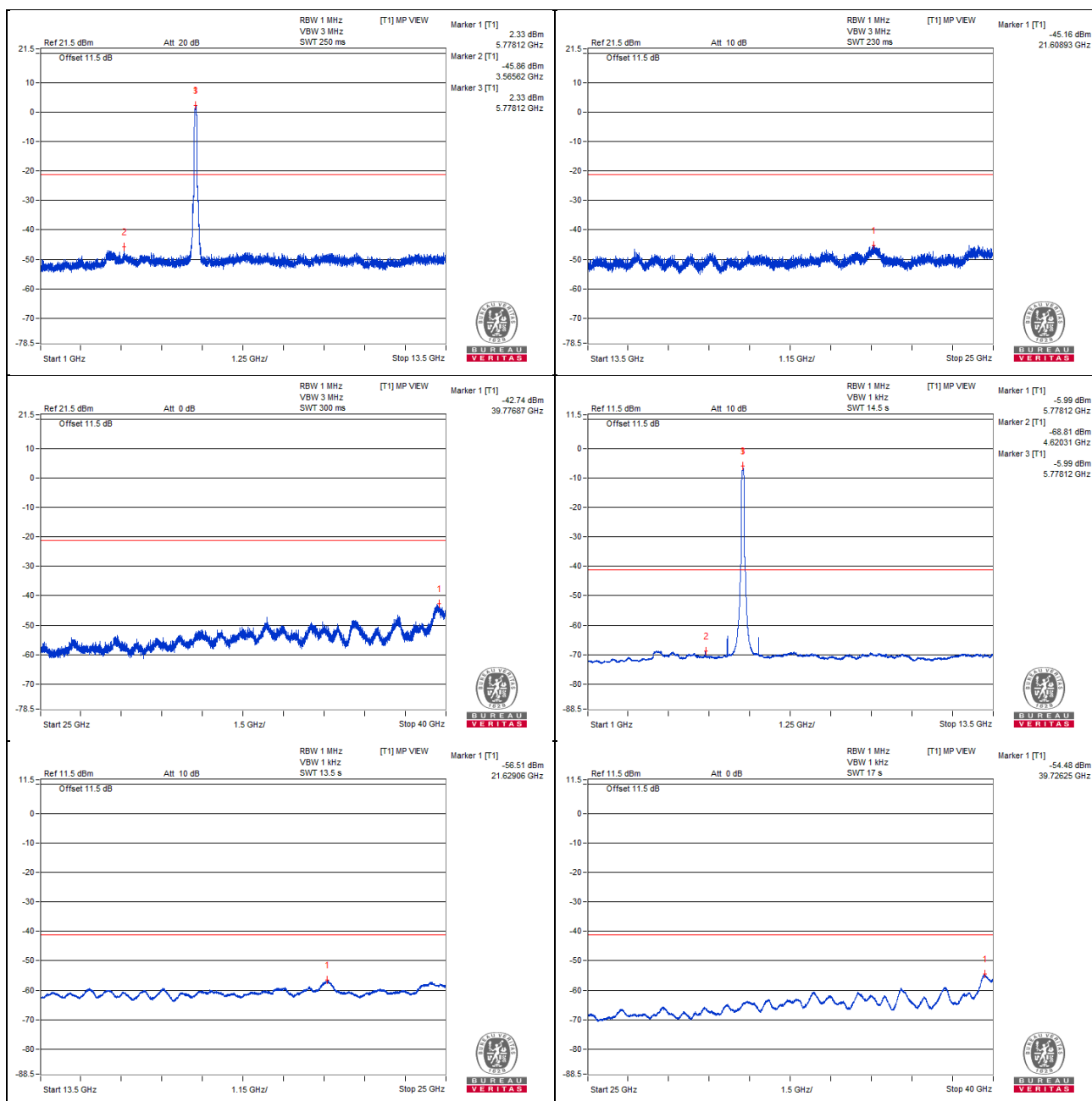
802.11ac (VHT80) – Channel 155

Conducted spurious emission table

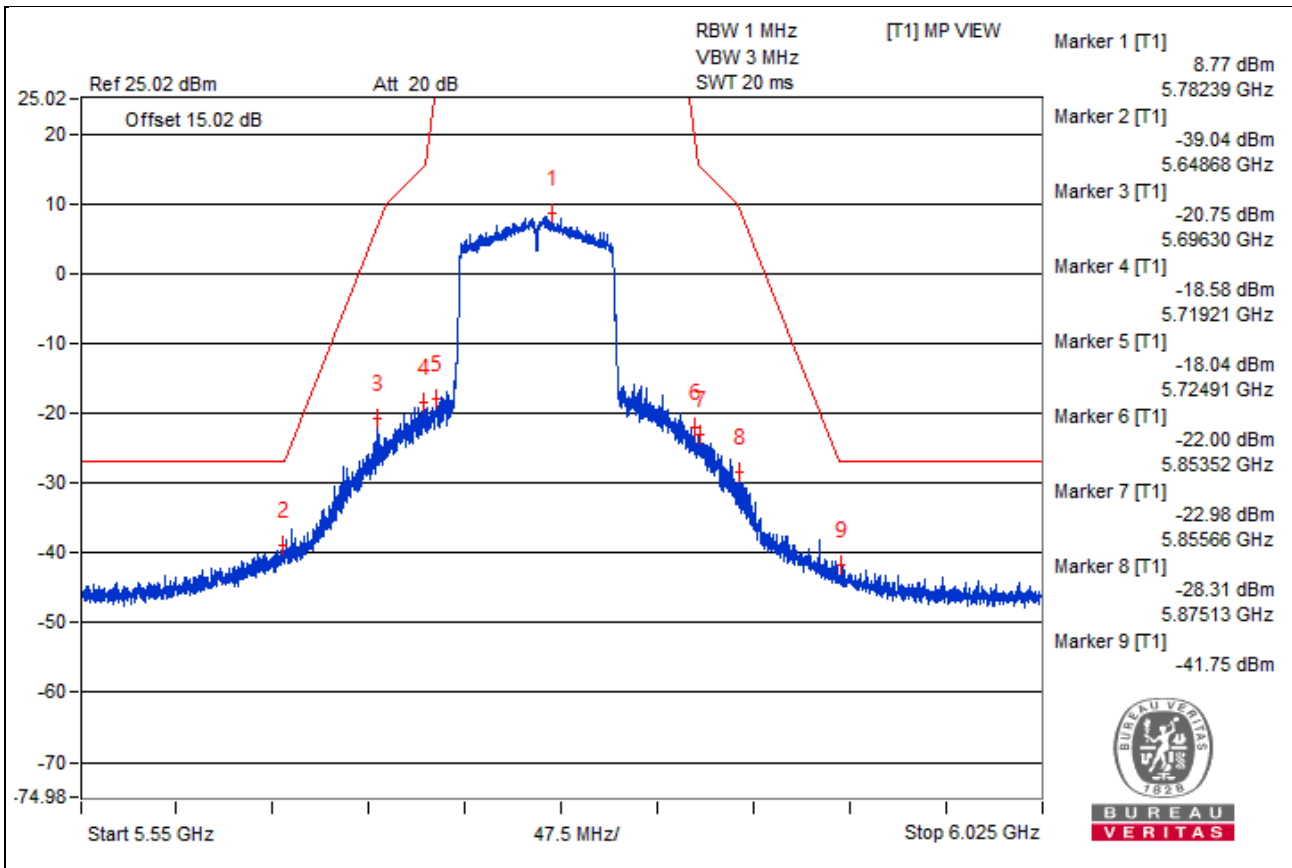
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5778.12 PK	101.24	*		2.33	3.65	5.98
2	3565.62 PK	53.05	74	-20.95	-45.86	3.65	-42.21
3	5778.12 PK	101.24	*		2.33	3.65	5.98
4	21608.93 PK	53.75	68.2	-14.45	-45.16	3.65	-41.51
5	39776.87 PK	56.17	74	-17.83	-42.74	3.65	-39.09
6	5778.12 AV	92.92	*		-5.99	3.65	-2.34
7	4620.31 AV	30.1	54	-23.9	-68.81	3.65	-65.16
8	5778.12 AV	92.92	*		-5.99	3.65	-2.34
9	21629.06 AV	42.4	#		-56.51	3.65	-52.86
10	39726.25 AV	44.43	54	-9.57	-54.48	3.65	-50.83

Note :

1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.



Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.52 dBi).
2. The test results were EIRP.

Below 1GHz Data

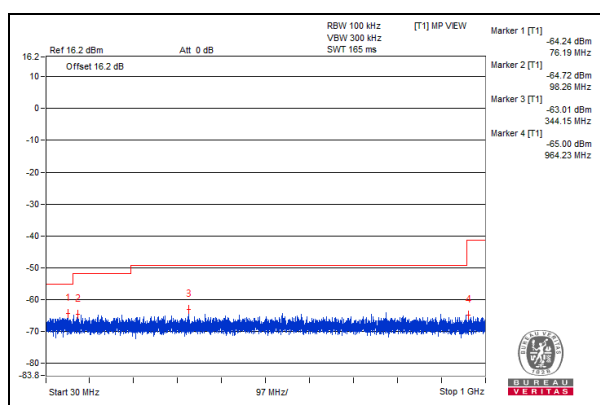
802.11a - Channel 36

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	76.19	34.67	68.2	-33.53	-64.24	3.65	-60.59
2	98.26	34.19	68.2	-34.01	-64.72	3.65	-61.07
3	344.15	35.9	68.2	-32.3	-63.01	3.65	-59.36
4	964.23	33.91	54	-20.09	-65	3.65	-61.35

Note :

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



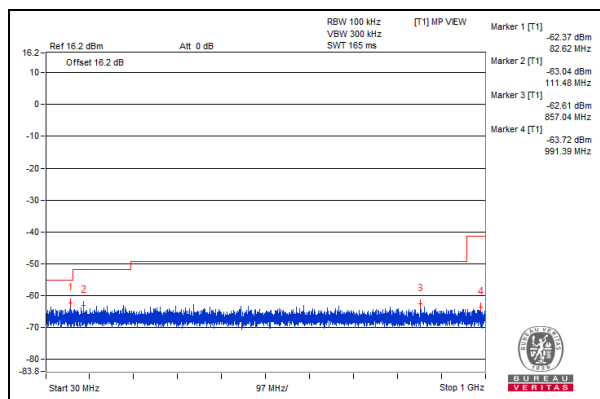
802.11a - Channel 52

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	82.62	36.54	68.2	-31.66	-62.37	3.65	-58.72
2	111.48	35.87	43.5	-7.63	-63.04	3.65	-59.39
3	857.04	36.3	46	-9.7	-62.61	3.65	-58.96
4	991.39	35.19	54	-18.81	-63.72	3.65	-60.07

Note :

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



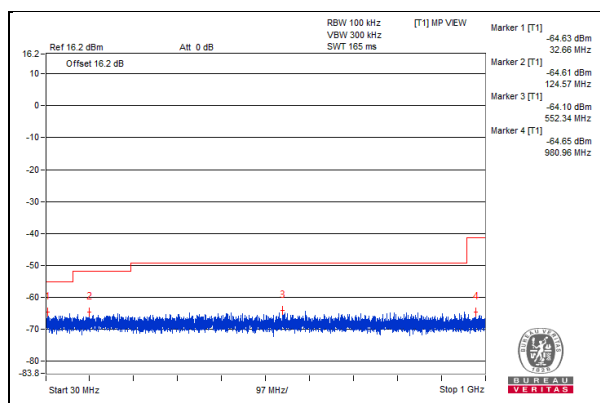
802.11a - Channel 140

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	32.66	34.28	68.2	-33.92	-64.63	3.65	-60.98
2	124.57	34.3	43.5	-9.2	-64.61	3.65	-60.96
3	552.34	34.81	68.2	-33.39	-64.1	3.65	-60.45
4	980.96	34.26	54	-19.74	-64.65	3.65	-61

Note :

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



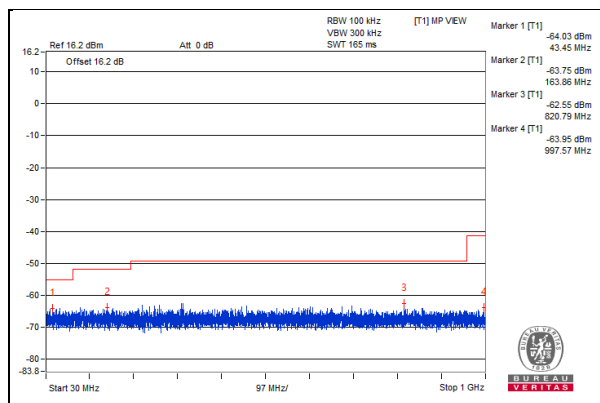
802.11a - Channel 157

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	43.45	34.88	68.2	-33.32	-64.03	3.65	-60.38
2	163.86	35.16	43.5	-8.34	-63.75	3.65	-60.1
3	820.79	36.36	68.2	-31.84	-62.55	3.65	-58.9
4	997.57	34.96	54	-19.04	-63.95	3.65	-60.3

Note :

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



Note: Choose worse case from above and set RBW/VBW=120kHz/1MHz to verification.

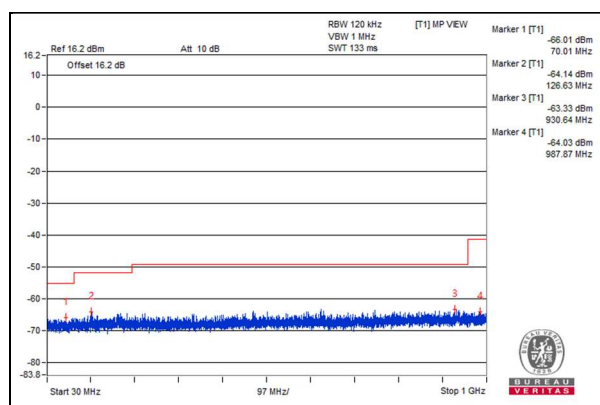
802.11a - Channel 140

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	70.01	32.9	68.2	-35.3	-66.01	3.65	-62.36
2	126.63	34.77	43.5	-8.73	-64.14	3.65	-60.49
3	930.64	35.58	68.2	-32.62	-63.33	3.65	-59.68
4	987.87	34.88	54	-19.12	-64.03	3.65	-60.38

Note :

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



4.2 Conducted Emission Measurement

4.2.1 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.

4.2.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 23, 2019	Oct. 22, 2020
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 23, 2019	Oct. 22, 2020
Line-Impedance Stabilization Network (for Peripheral) R&S	ESH3-Z5	835239/001	Mar. 19, 2020	Mar. 18, 2021
50 ohms Terminator	50	3	Oct. 23, 2019	Oct. 22, 2020
RF Cable	5D-FB	COCCAB-001	Sep. 27, 2019	Sep. 26, 2020
Fixed attenuator EMCI	STI02-2200-10	005	Aug. 30, 2019	Aug. 29, 2020
Software BVADT	BVADT_Cond_ V7.3.7.4	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 Conduction 1.
3. Tested Date: Apr. 17, 2020

4.2.3 Test Procedure

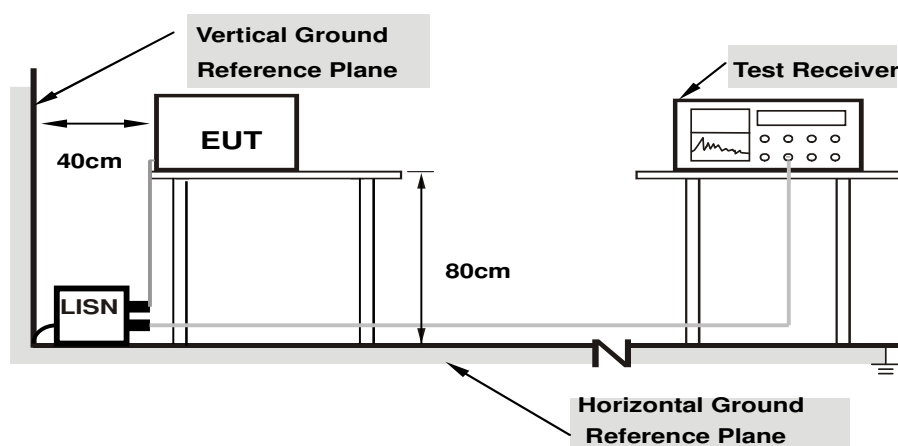
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 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).

4.2.6 EUT Operating Condition

Same as 4.1.6.

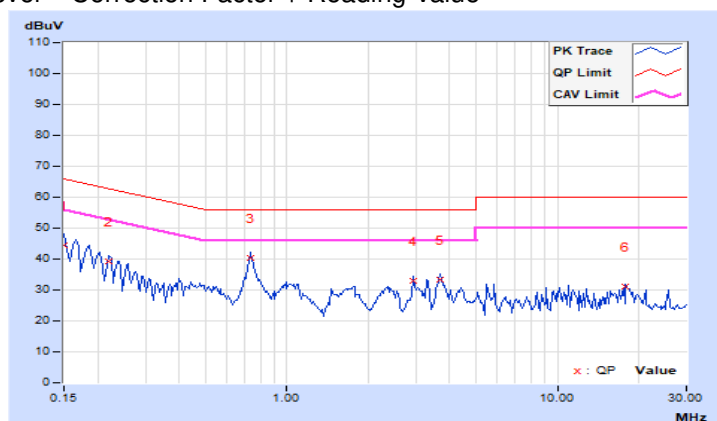
4.2.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
-------	----------	-------------------	--------------------------------

Phase Of Power : Line (L)										
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	9.99	34.54	24.97	44.53	34.96	66.00	56.00	-21.47	-21.04
2	0.22031	9.99	29.40	23.04	39.39	33.03	62.81	52.81	-23.42	-19.78
3	0.73203	10.03	30.22	28.02	40.25	38.05	56.00	46.00	-15.75	-7.95
4	2.92969	10.19	22.82	18.31	33.01	28.50	56.00	46.00	-22.99	-17.50
5	3.70703	10.24	23.11	13.31	33.35	23.55	56.00	46.00	-22.65	-22.45
6	17.92969	11.22	20.03	16.44	31.25	27.66	60.00	50.00	-28.75	-22.34

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

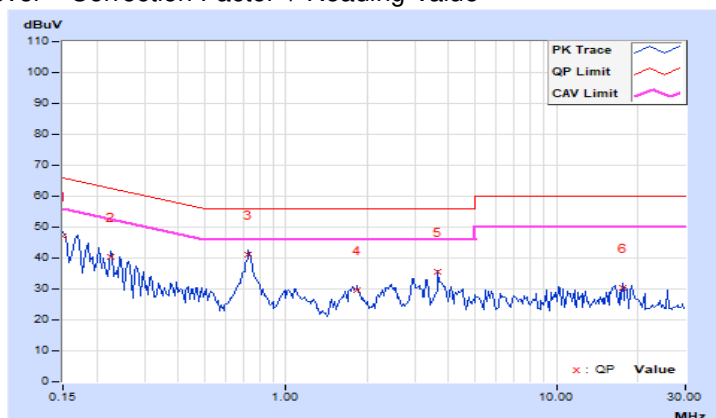


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
-------	-------------	-------------------	--------------------------------

Phase Of Power : Neutral (N)										
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	9.99	37.11	27.31	47.10	37.30	66.00	56.00	-18.90	-18.70
2	0.22422	9.99	30.33	23.42	40.32	33.41	62.66	52.66	-22.34	-19.25
3	0.72813	10.03	31.13	28.87	41.16	38.90	56.00	46.00	-14.84	-7.10
4	1.83594	10.11	19.57	17.35	29.68	27.46	56.00	46.00	-26.32	-18.54
5	3.65625	10.20	25.38	20.10	35.58	30.30	56.00	46.00	-20.42	-15.70
6	17.55859	10.98	19.23	15.44	30.21	26.42	60.00	50.00	-29.79	-23.58

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	✓	Client device	250mW (24 dBm)
U-NII-2A	✓		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	✓		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	✓		1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

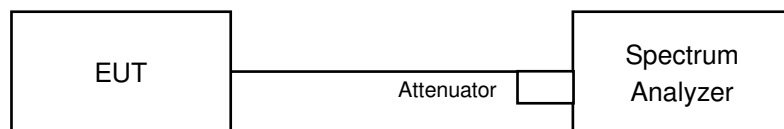
Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

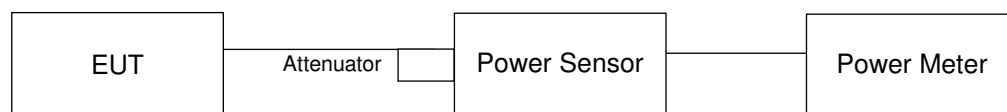
4.3.2 Test Setup

FOR POWER OUTPUT MEASUREMENT

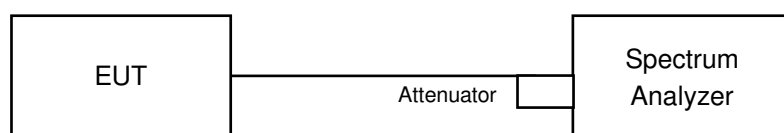
For channel straddling 5725MHz:



For other channels:



FOR 26dB OCCUPIED BANDWIDTH



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

FOR POWER OUTPUT MEASUREMENT

For channel straddling 5725MHz:

Follow FCC KDB 789033 UNII test procedure:

Method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1MHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. Set trigger to free run (duty cycle ≥ 98 percent)
7. Detector = RMS.
8. Trace average at least 100 traces in power averaging mode.
In order to obtain results more easily, change max hold to view. It has no effect on the result
9. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

For other channels:

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

FOR 26dB OCCUPIED BANDWIDTH

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Results (Mode 1)

POWER OUTPUT

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	14.26	15.53	62.396	17.95	24.00	Pass
40	5200	14.14	15.38	60.456	17.81	24.00	Pass
48	5240	14.23	15.57	62.543	17.96	24.00	Pass
52	5260	14.30	15.50	62.397	17.95	24.00	Pass
60	5300	14.37	15.60	63.66	18.04	24.00	Pass
64	5320	14.18	15.36	60.538	17.82	24.00	Pass
100	5500	14.09	14.11	51.408	17.11	24.00	Pass
116	5580	14.57	14.06	54.11	17.33	24.00	Pass
140	5700	14.77	13.83	54.146	17.34	24.00	Pass
*144 (U-NII-2C Band)	5720	13.74	12.70	42.28	16.26	22.85	Pass
*144 (U-NII-3 Band)	5720	6.71	5.67	8.378	9.23	30.00	Pass
149	5745	15.20	14.42	60.783	17.84	30.00	Pass
157	5785	15.16	14.51	61.058	17.86	30.00	Pass
165	5825	14.96	14.48	59.387	17.74	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For U-NII-1: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.42 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.61 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.49 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.
4. For U-NII-3: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.36 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
				Chain 0	Chain 1		
144	5720	50.658	17.05	15.24	14.25	60.027	17.78

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	20.73	24.16 > 24
60	5300	20.77	24.17 > 24
64	5320	20.75	24.17 > 24
100	5500	20.75	24.17 > 24
116	5580	20.8	24.18 > 24
140	5700	20.76	24.17 > 24
144 (U-NII-2C Band)	5720	15.32	22.85 < 24

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	14.49	15.26	61.693	17.90	24.00	Pass
46	5230	14.31	15.44	61.972	17.92	24.00	Pass
54	5270	14.15	15.38	60.516	17.82	24.00	Pass
62	5310	15.43	15.34	69.112	18.40	24.00	Pass
102	5510	13.86	13.14	44.928	16.53	24.00	Pass
110	5550	14.25	14.03	51.9	17.15	24.00	Pass
134	5670	15.05	14.14	57.931	17.63	24.00	Pass
*142 (U-NII-2C Band)	5710	14.58	13.38	50.485	17.03	24.00	Pass
*142 (U-NII-3 Band)	5710	2.59	1.38	3.19	5.04	30.00	Pass
151	5755	15.31	14.44	61.76	17.91	30.00	Pass
159	5795	15.48	14.51	63.567	18.03	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For U-NII-1: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.42 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.61 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.49 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.
4. For U-NII-3: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.36 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
				Chain 0	Chain 1		
142	5710	53.675	17.30	15.45	14.41	62.681	17.97

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	42.2	27.25 > 24
62	5310	42.21	27.25 > 24
102	5510	42.25	27.25 > 24
110	5550	41.87	27.21 > 24
134	5670	42.18	27.25 > 24
142 (U-NII-2C Band)	5710	36.1	26.57 > 24

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	12.90	13.06	39.729	15.99	24.00	Pass
58	5290	15.07	14.72	61.785	17.91	24.00	Pass
106	5530	13.11	11.77	35.496	15.50	24.00	Pass
122	5610	14.69	14.13	55.326	17.43	24.00	Pass
*138 (U-NII-2C Band)	5690	14.49	13.32	49.597	16.95	24.00	Pass
*138 (U-NII-3 Band)	5690	-0.61	-1.67	1.5497	1.90	30.00	Pass
155	5775	15.27	14.35	60.878	17.84	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For U-NII-1: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.42 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.61 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.49 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.
4. For U-NII-3: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.36 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
				Chain 0	Chain 1		
138	5690	51.1467	17.09	15.14	14.08	58.245	17.65

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

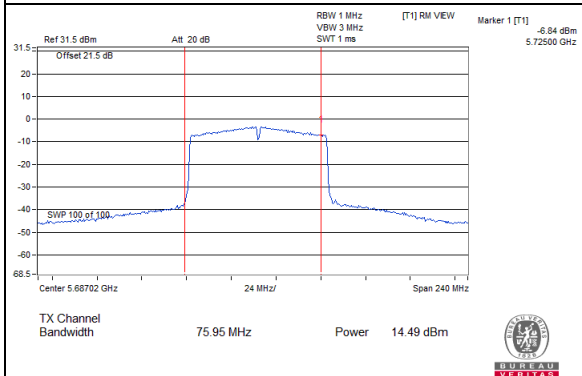
Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	82.18	30.14 > 24
106	5530	82.32	30.15 > 24
122	5610	82.23	30.15 > 24
138 (U-NII-2C Band)	5690	75.95	29.8 > 24

For channel straddling 5725MHz of Power

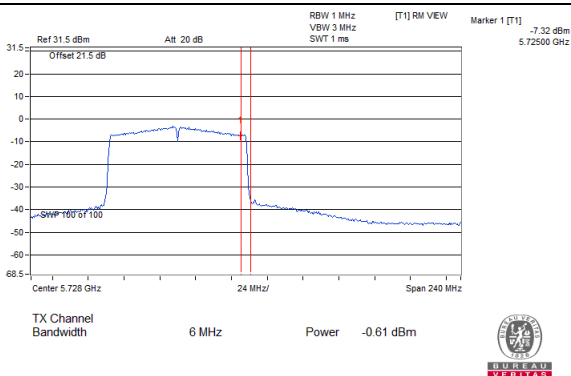


Spectrum Plot Value of Power

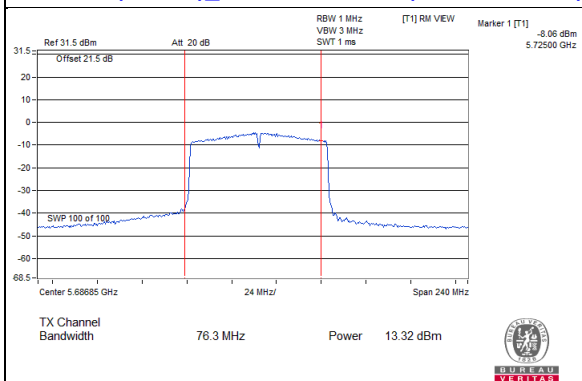
802.11ac (VHT80)_Chain 0 / CH138 (U-NII-2C Band)



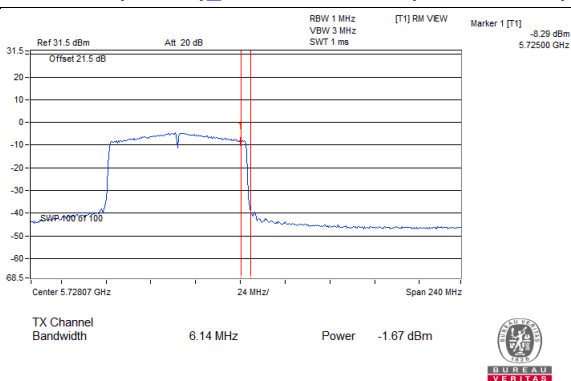
802.11ac (VHT80)_Chain 0 / CH138 (U-NII-3 Band)



802.11ac (VHT80)_Chain 1 / CH138 (U-NII-2C Band)



802.11ac (VHT80)_Chain 1 / CH138 (U-NII-3 Band)



26dB OCCUPIED BANDWIDTH

802.11ac (VHT20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.73	21.07
60	5300	20.77	20.97
64	5320	20.75	20.93
100	5500	20.83	20.75
116	5580	20.8	20.84
140	5700	20.81	20.76
144 (U-NII-2C Band)	5720	15.32	15.4

802.11ac (VHT40)

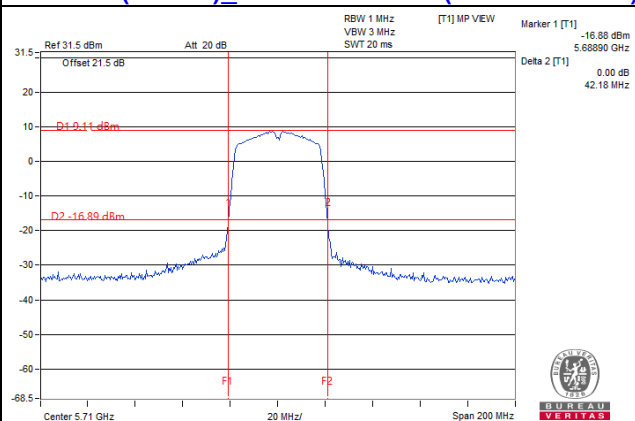
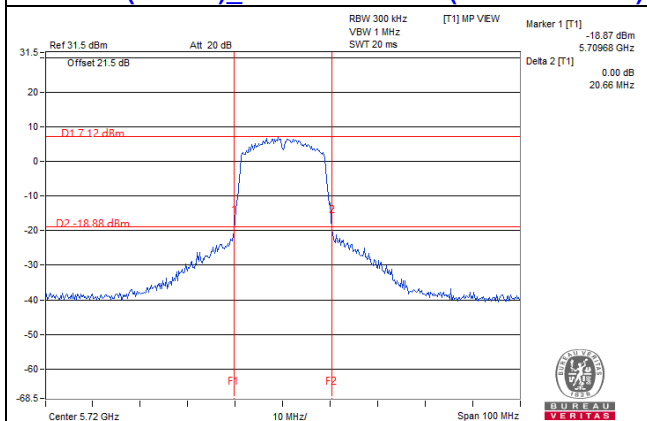
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	42.2	42.46
62	5310	42.21	42.79
102	5510	42.25	42.37
110	5550	41.89	41.87
134	5670	42.26	42.18
142 (U-NII-2C Band)	5710	36.16	36.1

802.11ac (VHT80)

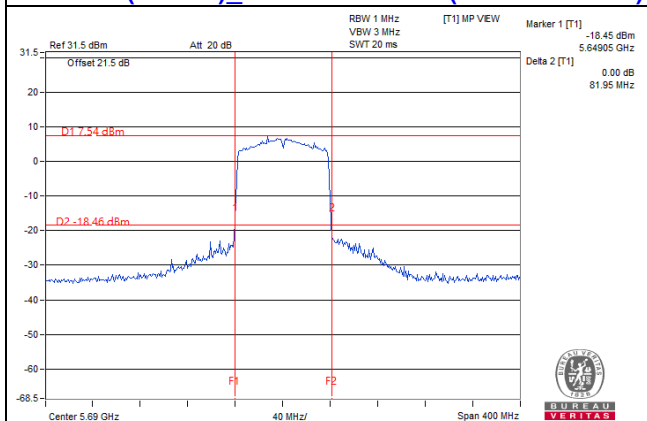
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	82.18	82.67
106	5530	82.32	82.41
122	5610	82.38	82.23
138 (U-NII-2C Band)	5690	75.95	76.3

Spectrum Plot of Worst Value

802.11ac (VHT20)_Chain 0 / CH144 (U-NII-2C Band) **802.11ac (VHT40)_Chain 1 / CH142 (U-NII-2C Band)**



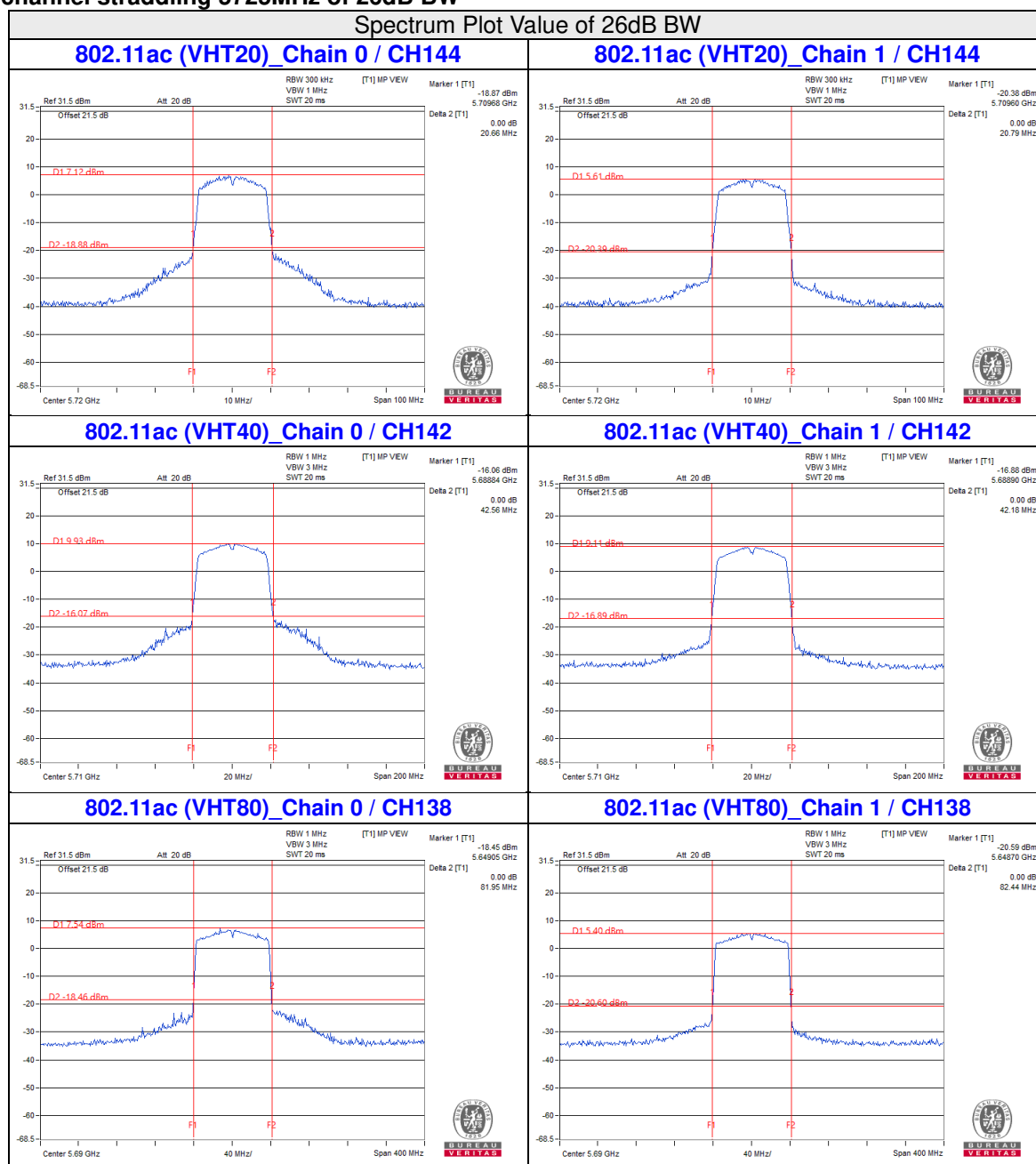
802.11ac (VHT80)_Chain 0 / CH138 (U-NII-2C Band)



Note:

For CH144 (U-NII-2C) = 5725MHz - Marker 1
For CH142 (U-NII-2C) = 5725MHz - Marker 1
For CH138 (U-NII-2C) = 5725MHz - Marker 1

For channel straddling 5725MHz of 26dB BW



Note:

For CH144 (U-NII-2C) = 5725MHz - Marker 1
 For CH142 (U-NII-2C) = 5725MHz - Marker 1
 For CH138 (U-NII-2C) = 5725MHz - Marker 1

4.3.8 Test Results (Mode 2)

POWER OUTPUT

802.11a

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
36	5180	44.566	16.49	24.00	Pass
40	5200	42.756	16.31	24.00	Pass
48	5240	41.591	16.19	24.00	Pass
52	5260	44.157	16.45	24.00	Pass
60	5300	43.752	16.41	24.00	Pass
64	5320	43.053	16.34	24.00	Pass
100	5500	44.668	16.50	24.00	Pass
116	5580	43.053	16.34	24.00	Pass
140	5700	45.499	16.58	24.00	Pass
*144 (U-NII-2C Band)	5720	31.696	15.01	22.83	Pass
*144 (U-NII-3 Band)	5720	5.623	7.50	30.00	Pass
149	5745	42.756	16.31	30.00	Pass
157	5785	43.251	16.36	30.00	Pass
165	5825	42.17	16.25	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (mW)	Average Power (dBm)
144	5720	37.319	15.72	42.364	16.27

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	20.45	24.1 > 24
60	5300	20.52	24.12 > 24
64	5320	20.54	24.12 > 24
100	5500	20.58	24.13 > 24
116	5580	20.54	24.12 > 24
140	5700	20.69	24.15 > 24
144 (U-NII-2C Band)	5720	15.26	22.83 < 24

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
36	5180	40.272	16.05	24.00	Pass
40	5200	40.832	16.11	24.00	Pass
48	5240	41.4	16.17	24.00	Pass
52	5260	43.853	16.42	24.00	Pass
60	5300	43.551	16.39	24.00	Pass
64	5320	43.053	16.34	24.00	Pass
100	5500	44.566	16.49	24.00	Pass
116	5580	41.976	16.23	24.00	Pass
140	5700	41.305	16.16	24.00	Pass
*144 (U-NII-2C Band)	5720	34.119	15.33	23.21	Pass
*144 (U-NII-3 Band)	5720	6.808	8.33	30.00	Pass
149	5745	41.879	16.22	30.00	Pass
157	5785	42.17	16.25	30.00	Pass
165	5825	41.305	16.16	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (mW)	Average Power (dBm)
144	5720	40.927	16.12	44.361	16.47

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	20.74	24.16 > 24
60	5300	20.81	24.18 > 24
64	5320	20.72	24.16 > 24
100	5500	20.84	24.18 > 24
116	5580	20.75	24.17 > 24
140	5700	20.84	24.18 > 24
144 (U-NII-2C Band)	5720	16.66	23.21 < 24

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
38	5190	41.02	16.13	24.00	Pass
46	5230	40.644	16.09	24.00	Pass
54	5270	43.451	16.38	24.00	Pass
62	5310	42.954	16.33	24.00	Pass
102	5510	37.67	15.76	24.00	Pass
110	5550	44.463	16.48	24.00	Pass
134	5670	44.055	16.44	24.00	Pass
*142 (U-NII-2C Band)	5710	36.141	15.58	24.00	Pass
*142 (U-NII-3 Band)	5710	2.27	3.56	30.00	Pass
151	5755	41.305	16.16	30.00	Pass
159	5795	40.832	16.11	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (mW)	Average Power (dBm)
142	5710	38.411	15.84	45.082	16.54

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	42	27.23 > 24
62	5310	42.19	27.25 > 24
102	5510	42.11	27.24 > 24
110	5550	42.42	27.27 > 24
134	5670	42.22	27.25 > 24
142 (U-NII-2C Band)	5710	36.08	26.57 > 24

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
42	5210	31.989	15.05	24.00	Pass
58	5290	43.752	16.41	24.00	Pass
106	5530	37.497	15.74	24.00	Pass
122	5610	43.053	16.34	24.00	Pass
*138 (U-NII-2C Band)	5690	36.392	15.61	24.00	Pass
*138 (U-NII-3 Band)	5690	1.114	0.47	30.00	Pass
155	5775	44.463	16.48	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

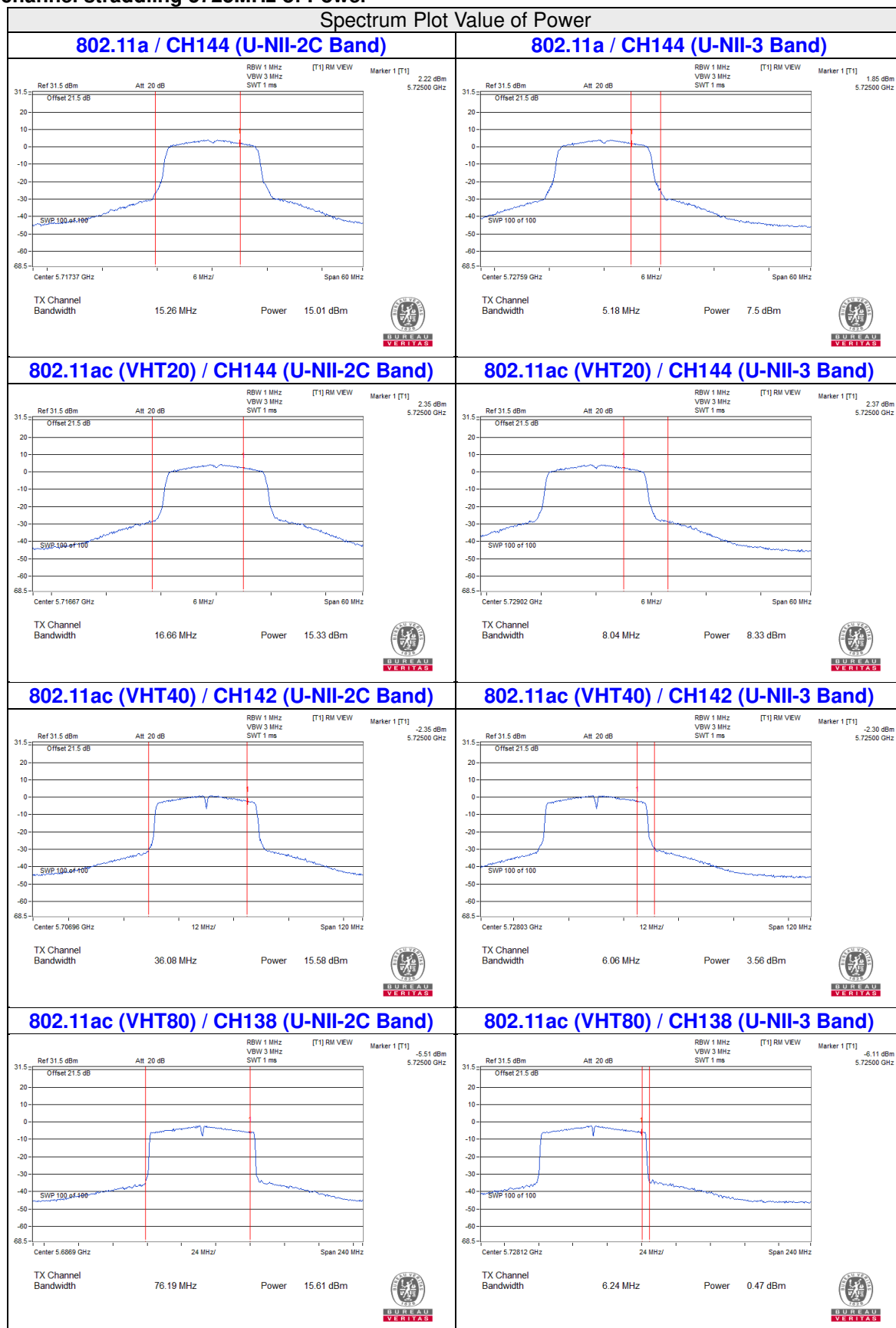
The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (mW)	Average Power (dBm)
138	5690	37.506	15.74	42.364	16.27

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	82.48	30.16 > 24
106	5530	82.44	30.16 > 24
122	5610	82.21	30.14 > 24
138 (U-NII-2C Band)	5690	76.19	29.81 > 24

For channel straddling 5725MHz of Power



26dB OCCUPIED BANDWIDTH

802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
52	5260	20.45
60	5300	20.52
64	5320	20.54
100	5500	20.58
116	5580	20.54
140	5700	20.69
144 (U-NII-2C Band)	5720	15.26

802.11ac (VHT20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
52	5260	20.74
60	5300	20.81
64	5320	20.72
100	5500	20.84
116	5580	20.75
140	5700	20.84
144 (U-NII-2C Band)	5720	16.66

802.11ac (VHT40)

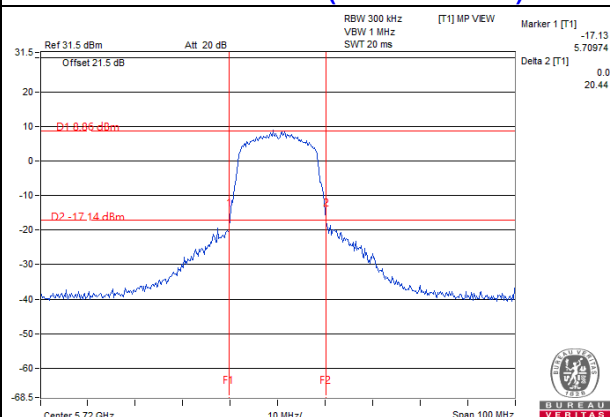
Channel	Frequency (MHz)	26dB Bandwidth (MHz)
54	5270	42
62	5310	42.19
102	5510	42.11
110	5550	42.42
134	5670	42.22
142 (U-NII-2C Band)	5710	36.08

802.11ac (VHT80)

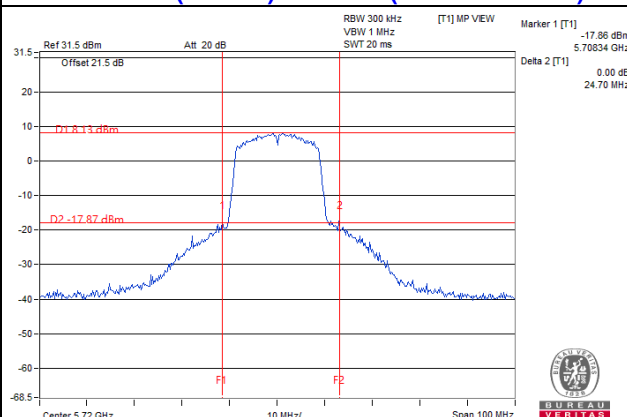
Channel	Frequency (MHz)	26dB Bandwidth (MHz)
58	5290	82.48
106	5530	82.44
122	5610	82.21
138 (U-NII-2C Band)	5690	76.19

Spectrum Plot of Worst Value

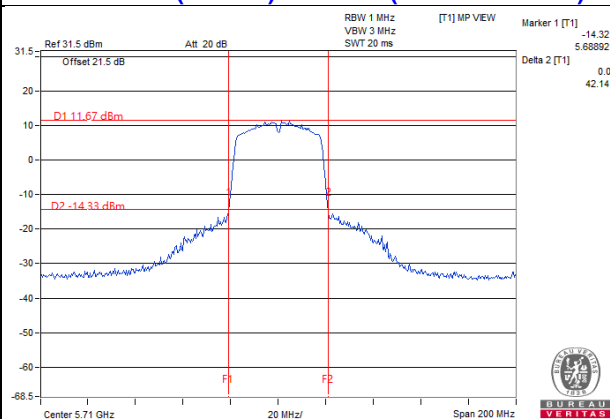
802.11a / CH144 (U-NII-2C Band)



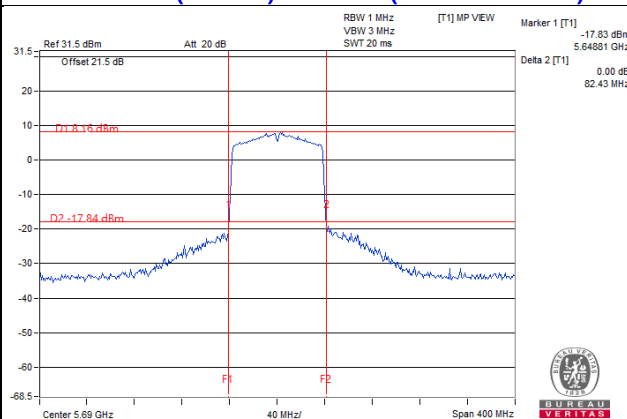
802.11ac (VHT20) / CH144 (U-NII-2C Band)



802.11ac (VHT40) / CH142 (U-NII-2C Band)



802.11ac (VHT80) / CH138 (U-NII-2C Band)

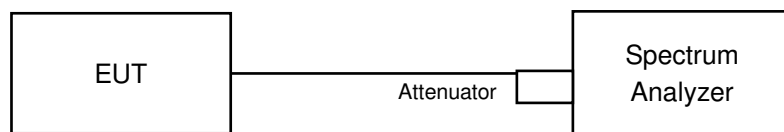


Note:

- For CH144 (U-NII-2C) = 5725MHz - Marker 1
- For CH142 (U-NII-2C) = 5725MHz - Marker 1
- For CH138 (U-NII-2C) = 5725MHz - Marker 1

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to SAMPLE. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

4.4.4 Test Results (Mode 1)

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	17.76
40	5200	17.64	17.88
48	5240	17.64	17.64
52	5260	17.64	17.88
60	5300	17.64	17.76
64	5320	17.76	17.76
100	5500	17.64	17.76
116	5580	17.64	17.64
140	5700	17.64	17.76
144 (U-NII-2C Band)	5720	13.88	13.88
144 (U-NII-3 Band)	5720	3.88	3.88
149	5745	17.76	17.76
157	5785	17.88	17.64
165	5825	17.76	17.76

802.11ac (VHT40)

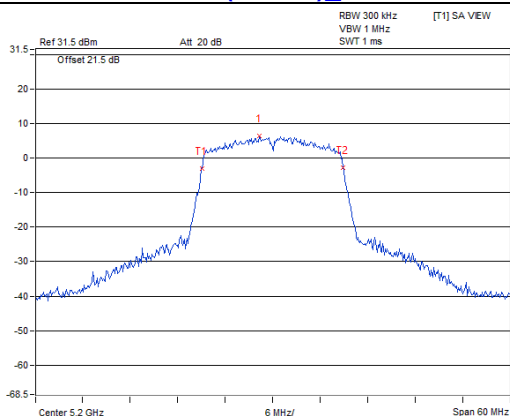
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.24	36.24
46	5230	36.48	36.24
54	5270	36.24	36.48
62	5310	36.48	36.24
102	5510	36.24	36.24
110	5550	36.48	36.48
134	5670	36.24	36.48
142 (U-NII-2C Band)	5710	33.24	33.24
142 (U-NII-3 Band)	5710	3.24	3
151	5755	36.48	36.48
159	5795	36.48	36.24

802.11ac (VHT80)

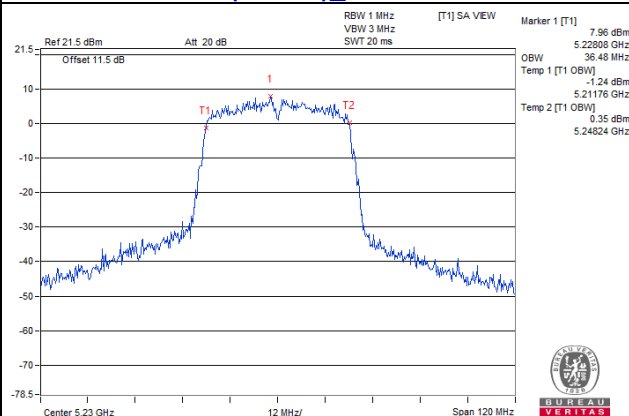
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	75.84
58	5290	75.36	75.84
106	5530	75.84	75.84
122	5610	75.36	75.36
138 (U-NII-2C Band)	5690	72.92	72.92
138 (U-NII-3 Band)	5690	2.92	2.44
155	5775	75.84	75.36

Spectrum Plot of Max. Value

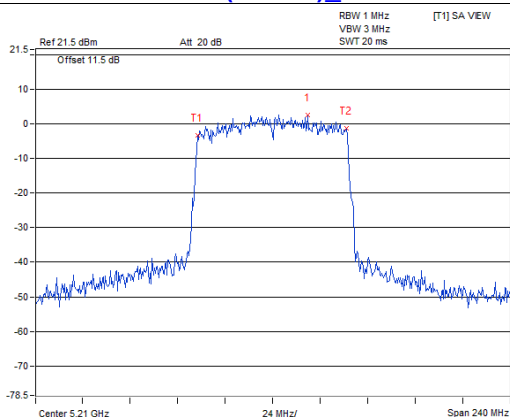
802.11ac (VHT20)_Chain 1 / CH40



802.11ac (VHT40)_Chain 0 / CH46

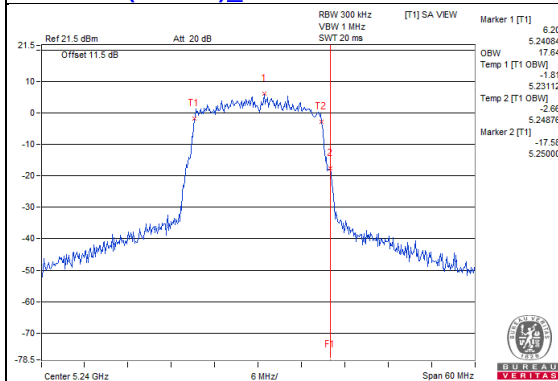


802.11ac (VHT80)_Chain 0 / CH42

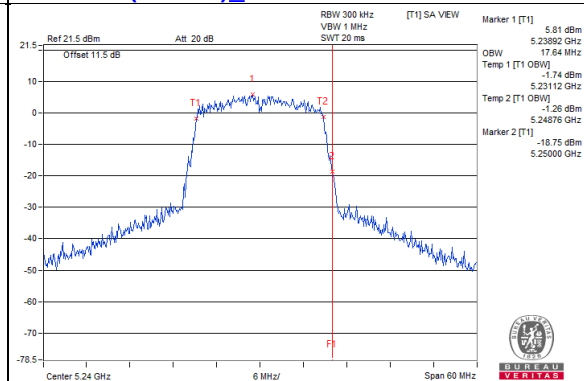


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

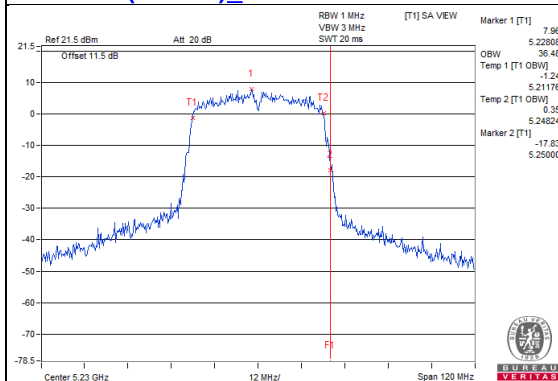
802.11ac (VHT20)_Chain0 / CH48



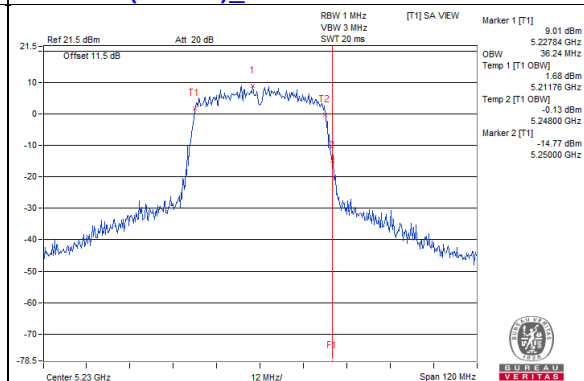
802.11ac (VHT20)_Chain1 / CH48



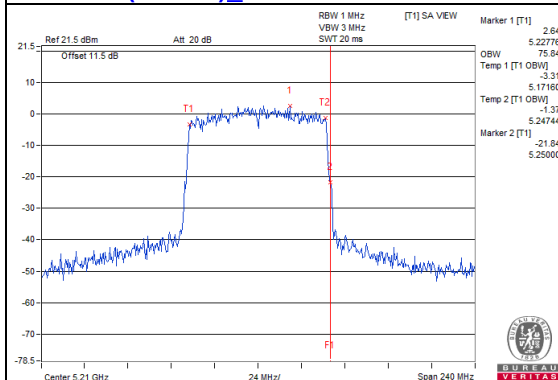
802.11ac (VHT40)_Chain0 / CH46



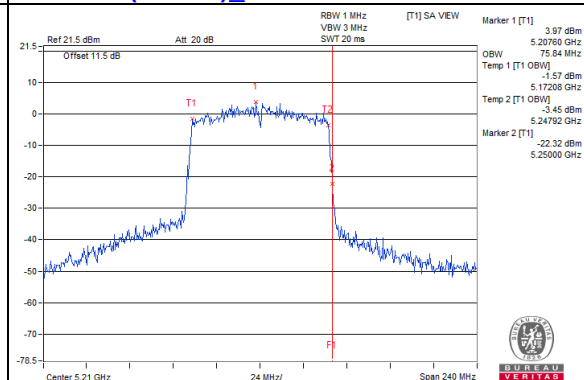
802.11ac (VHT40)_Chain1 / CH46



802.11ac (VHT80)_Chain0 / CH42

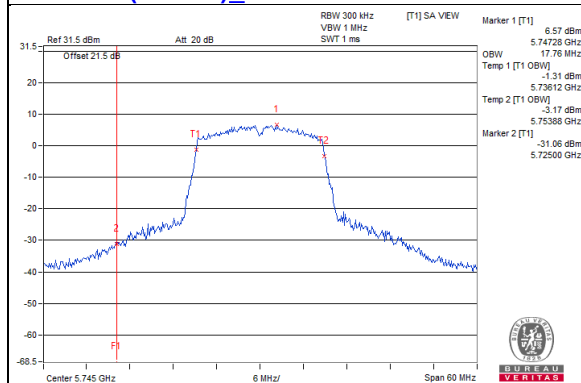


802.11ac (VHT80)_Chain1 / CH42

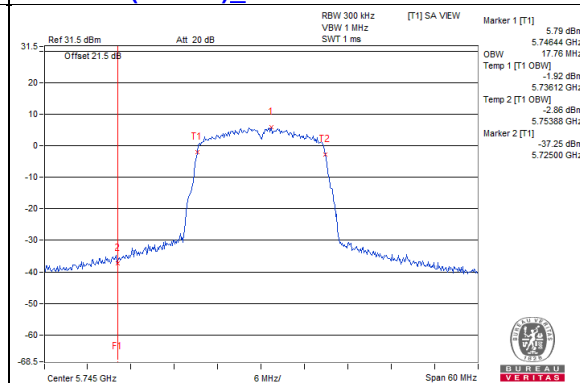


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

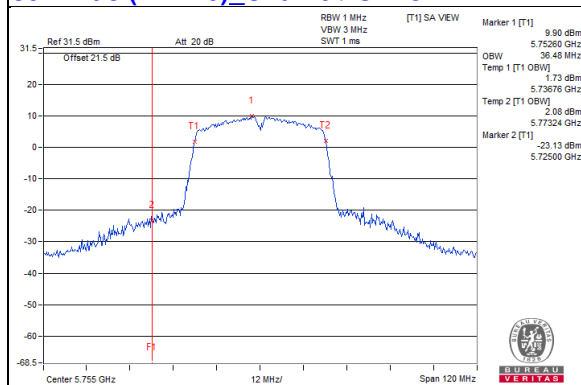
802.11ac (VHT20)_Chain0 / CH149



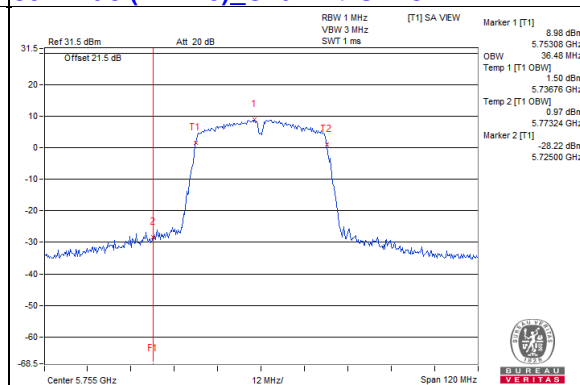
802.11ac (VHT20)_Chain1 / CH149



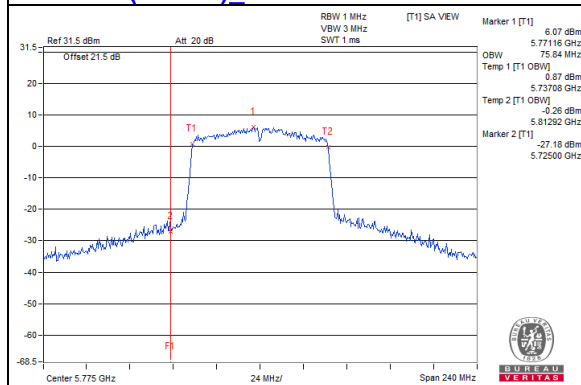
802.11ac (VHT40)_Chain0 / CH151



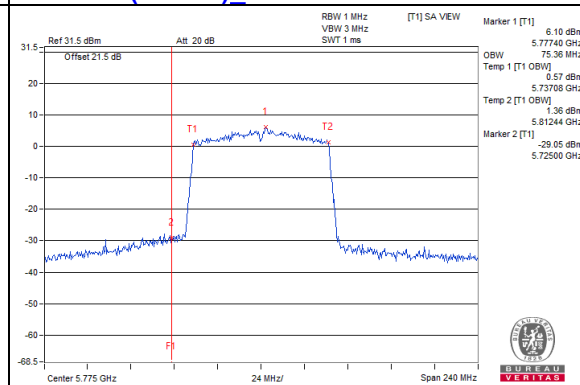
802.11ac (VHT40)_Chain1 / CH151



802.11ac (VHT80)_Chain0 / CH155



802.11ac (VHT80)_Chain1 / CH155



4.4.5 Test Results (Mode 2)

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	16.68
40	5200	16.68
48	5240	16.56
52	5260	16.68
60	5300	16.8
64	5320	16.68
100	5500	16.68
116	5580	16.68
140	5700	16.92
144 (U-NII-2C Band)	5720	13.4
144 (U-NII-3 Band)	5720	3.4
149	5745	16.8
157	5785	16.92
165	5825	16.8

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	17.64
40	5200	17.76
48	5240	17.76
52	5260	17.64
60	5300	17.76
64	5320	17.64
100	5500	17.76
116	5580	17.76
140	5700	17.76
144 (U-NII-2C Band)	5720	13.88
144 (U-NII-3 Band)	5720	3.88
149	5745	17.76
157	5785	17.88
165	5825	17.76

802.11ac (VHT40)

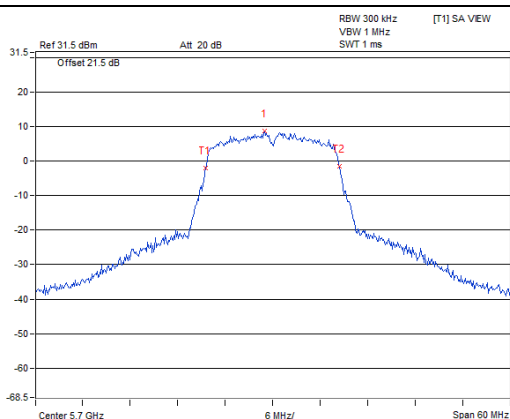
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	36.24
46	5230	36.24
54	5270	36.48
62	5310	36.24
102	5510	36.48
110	5550	36.48
134	5670	36.48
142 (U-NII-2C Band)	5710	33.48
142 (U-NII-3 Band)	5710	3.24
151	5755	36.48
159	5795	36.72

802.11ac (VHT80)

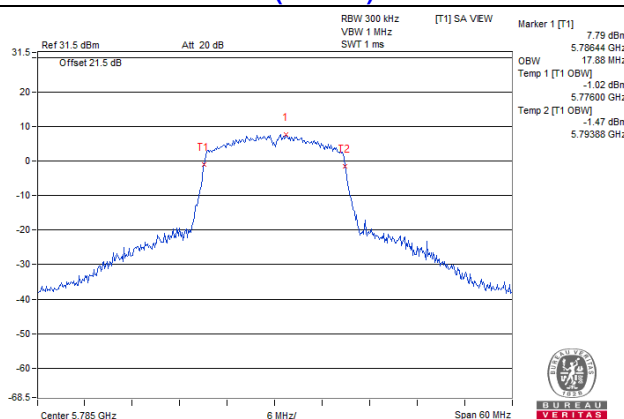
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	75.36
58	5290	75.36
106	5530	75.84
122	5610	75.84
138 (U-NII-2C Band)	5690	72.92
138 (U-NII-3 Band)	5690	2.92
155	5775	75.84

Spectrum Plot of Max. Value

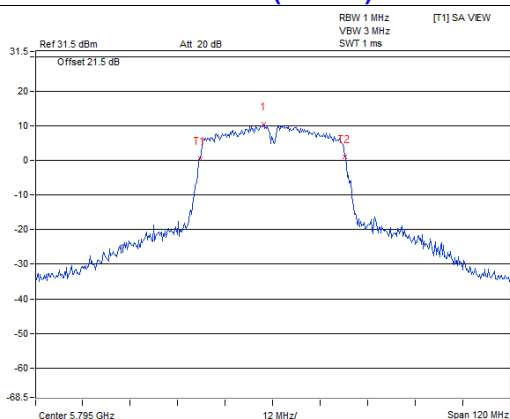
802.11a / CH140



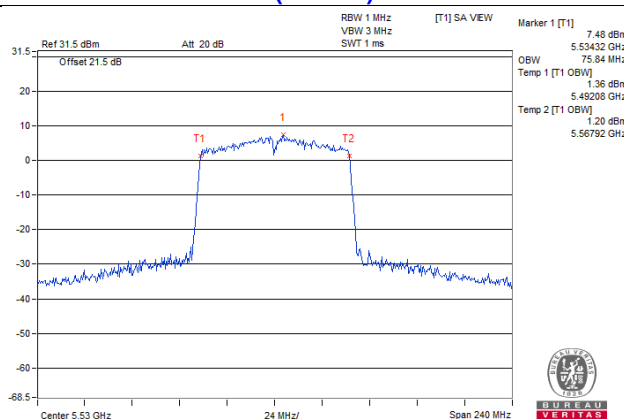
802.11ac (VHT20) / CH157



802.11ac (VHT40) / CH159

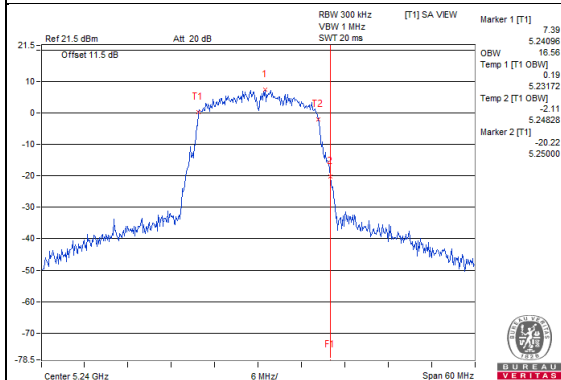


802.11ac (VHT80) / CH106

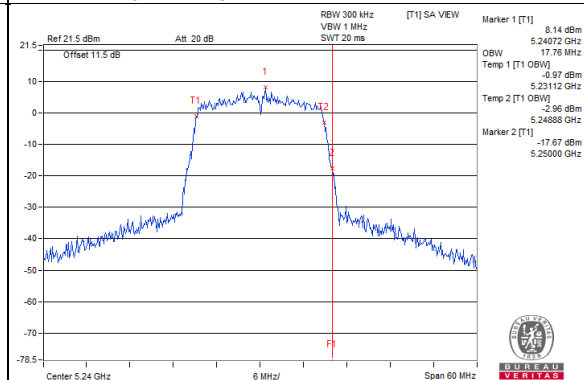


Spectrum Plot for near by DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)

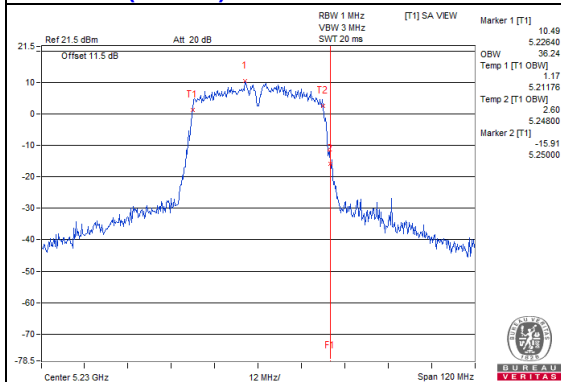
802.11a / CH48



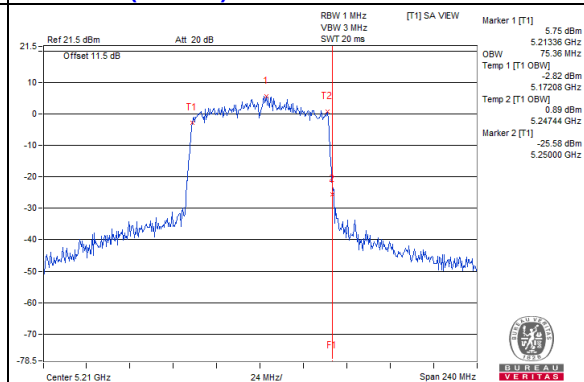
802.11ac (VHT20) / CH48



802.11ac (VHT40) / CH46

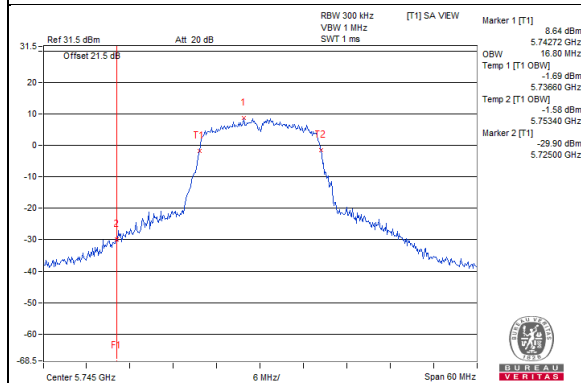


802.11ac (VHT80) / CH42

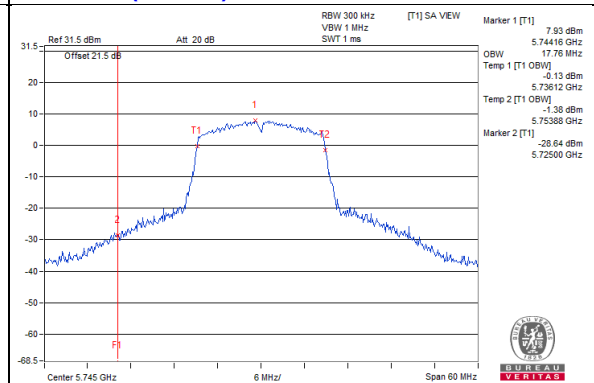


Spectrum Plot for near by DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)

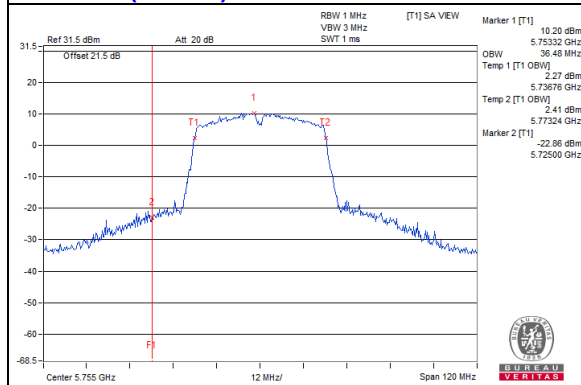
802.11a / CH149



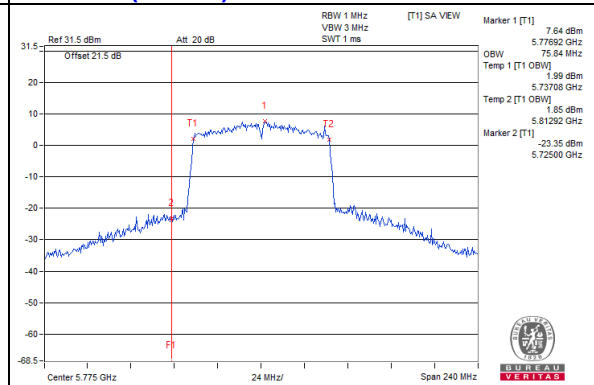
802.11ac (VHT20) / CH149



802.11ac (VHT40) / CH151



802.11ac (VHT80) / CH155

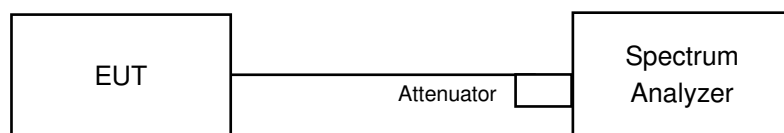


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to "free run".
4. Trace average at least 100 traces in power averaging mode.
In order to obtain results more easily, change max hold to view. It has no effect on the result
5. Record the max value

For U-NII-3 band:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
3. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(500\text{kHz}/300\text{kHz})$
5. Sweep time = auto, trigger set to "free run".
6. Trace average at least 100 traces in power averaging mode.
In order to obtain results more easily, change max hold to view. It has no effect on the result
7. Record the max value

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as Item 4.3.6.

4.5.7 Test Results (Mode 1)

For U-NII-1, U-NII-2A, U-NII-2C band:
802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	1.57	2.57	5.11	11.00	Pass
40	5200	1.29	2.64	5.03	11.00	Pass
48	5240	1.76	2.43	5.12	11.00	Pass
52	5260	1.37	2.09	4.76	11.00	Pass
60	5300	1.37	2.65	5.07	11.00	Pass
64	5320	1.30	2.65	5.04	11.00	Pass
100	5500	1.47	1.64	4.57	11.00	Pass
116	5580	1.31	1.19	4.26	11.00	Pass
140	5700	1.77	0.77	4.31	11.00	Pass
144 (U-NII-2C Band)	5720	2.83	1.43	5.20	11.00	Pass

- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-1: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.42 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.
3. For U-NII-2A: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.61 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.
4. For U-NII-2C: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.49 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
38	5190	-1.57	-0.94	1.77	11.00	Pass
46	5230	-1.57	-0.45	2.04	11.00	Pass
54	5270	-1.61	-0.56	1.96	11.00	Pass
62	5310	-0.55	-0.68	2.40	11.00	Pass
102	5510	-2.17	-2.57	0.64	11.00	Pass
110	5550	-1.30	-1.54	1.59	11.00	Pass
134	5670	-0.67	-1.90	1.77	11.00	Pass
142 (U-NII-2C Band)	5710	-0.29	-1.34	2.23	11.00	Pass

- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-1: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.42 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.
3. For U-NII-2A: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.61 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.
4. For U-NII-2C: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.49 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.

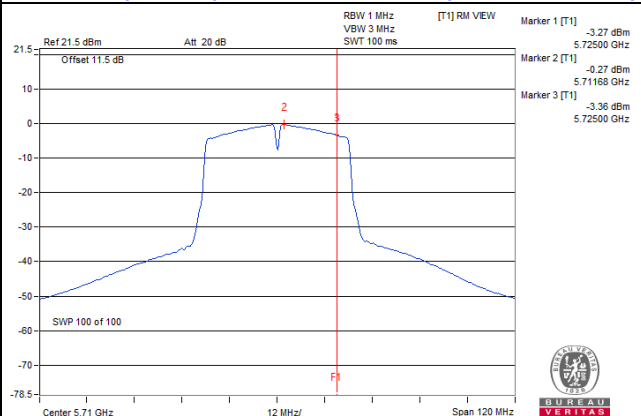
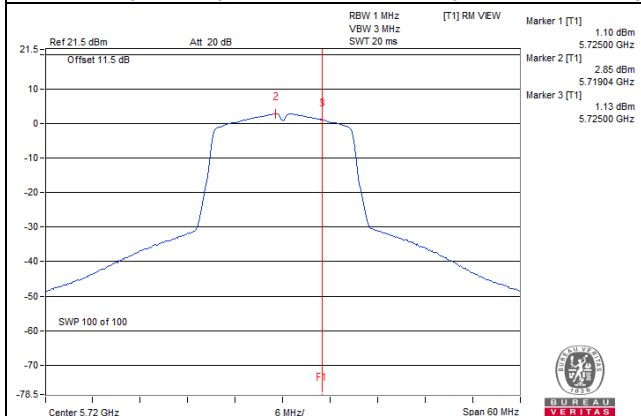
802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
42	5210	-6.02	-5.54	-2.76	11.00	Pass
58	5290	-3.73	-4.52	-1.10	11.00	Pass
106	5530	-5.54	-6.91	-3.16	11.00	Pass
122	5610	-4.48	-4.60	-1.53	11.00	Pass
138 (U-NII-2C Band)	5690	-4.16	-4.96	-1.53	11.00	Pass

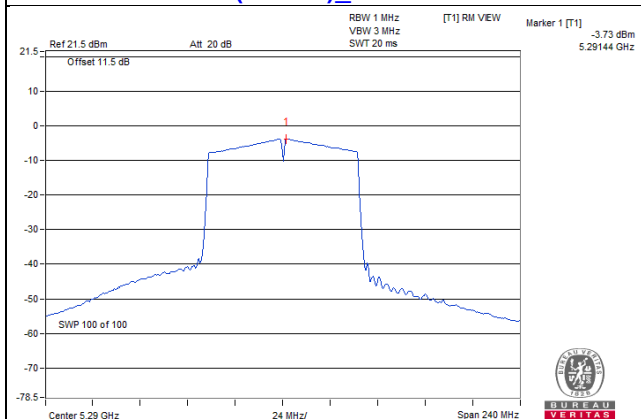
- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-1: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.42 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.
3. For U-NII-2A: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.61 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.
4. For U-NII-2C: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.49 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.

Spectrum Plot of Worst Value

802.11ac (VHT20)_Chain 0 / CH144 (U-NII-2C Band) 802.11ac (VHT40)_Chain 0 / CH142 (U-NII-2C Band)



802.11ac (VHT80)_Chain 0 / CH58



For U-NII-3 band:
802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1				
144 (U-NII-3 Band)	5720	-6.91	-8.37	-4.57	-2.35	30.00	Pass
149	5745	-5.13	-6.29	-2.66	-0.44	30.00	Pass
157	5785	-5.78	-6.19	-2.97	-0.75	30.00	Pass
165	5825	-5.85	-6.31	-3.06	-0.84	30.00	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.36 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1				
142 (U-NII-3 Band)	5710	-11.95	-12.83	-9.36	-7.14	30.00	Pass
151	5755	-8.86	-10.13	-6.44	-4.22	30.00	Pass
159	5795	-8.43	-9.45	-5.90	-3.68	30.00	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.36 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.

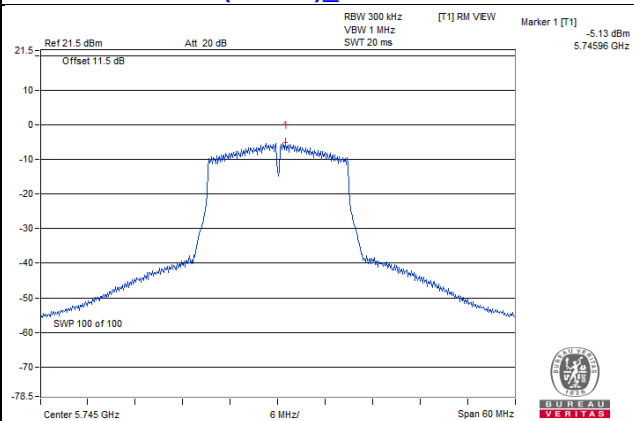
802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1				
138 (U-NII-3 Band)	5690	-16.22	-16.95	-13.56	-11.34	30.00	Pass
155	5775	-12.01	-13.38	-9.63	-7.41	30.00	Pass

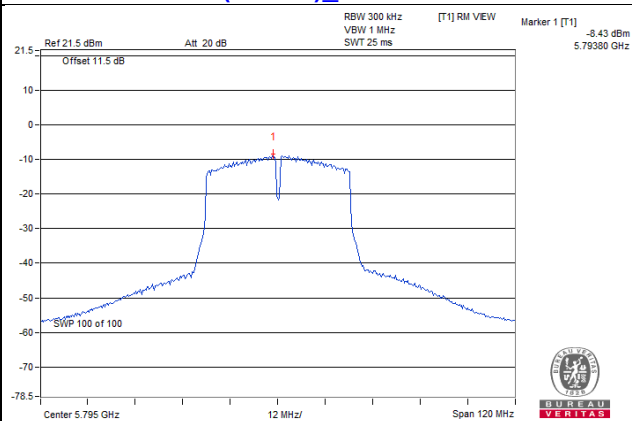
- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 3.36 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.

Spectrum Plot of Worst Value

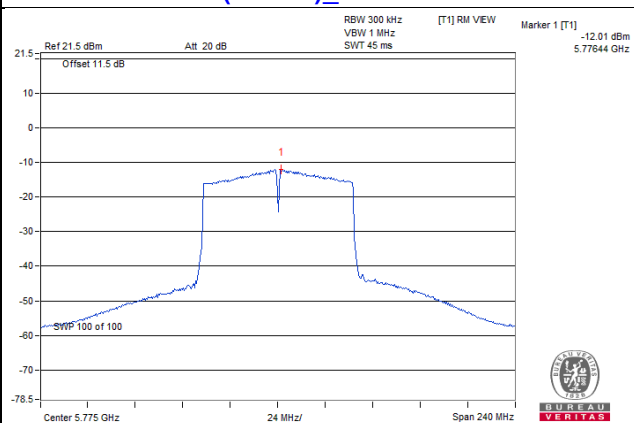
802.11ac (VHT20)_Chain 0 / CH149



802.11ac (VHT40)_Chain 0 / CH159



802.11ac (VHT80)_Chain 0 / CH155



4.5.8 Test Results (Mode 2)

For U-NII-1, U-NII-2A, U-NII-2C band:

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Pass / Fail
36	5180	3.84	11.00	Pass
40	5200	4.00	11.00	Pass
48	5240	3.57	11.00	Pass
52	5260	3.89	11.00	Pass
60	5300	3.94	11.00	Pass
64	5320	3.83	11.00	Pass
100	5500	4.08	11.00	Pass
116	5580	3.78	11.00	Pass
140	5700	3.63	11.00	Pass
144 (U-NII-2C Band)	5720	3.61	11.00	Pass

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Pass / Fail
36	5180	3.54	11.00	Pass
40	5200	3.36	11.00	Pass
48	5240	3.28	11.00	Pass
52	5260	3.51	11.00	Pass
60	5300	3.72	11.00	Pass
64	5320	3.64	11.00	Pass
100	5500	3.77	11.00	Pass
116	5580	3.46	11.00	Pass
140	5700	3.45	11.00	Pass
144 (U-NII-2C Band)	5720	3.49	11.00	Pass

802.11ac (VHT40)

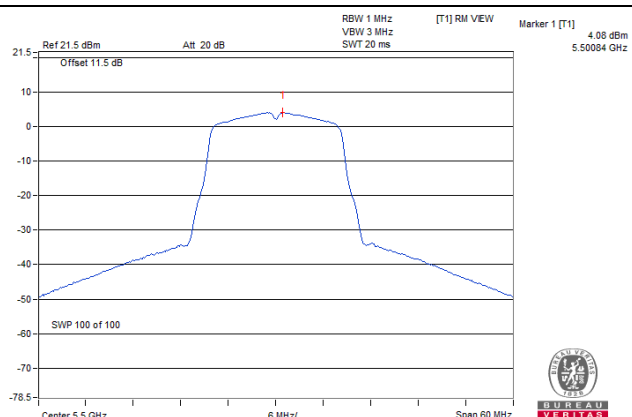
Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Pass / Fail
38	5190	0.59	11.00	Pass
46	5230	0.72	11.00	Pass
54	5270	0.68	11.00	Pass
62	5310	0.70	11.00	Pass
102	5510	-0.22	11.00	Pass
110	5550	0.65	11.00	Pass
134	5670	0.82	11.00	Pass
142 (U-NII-2C Band)	5710	0.78	11.00	Pass

802.11ac (VHT80)

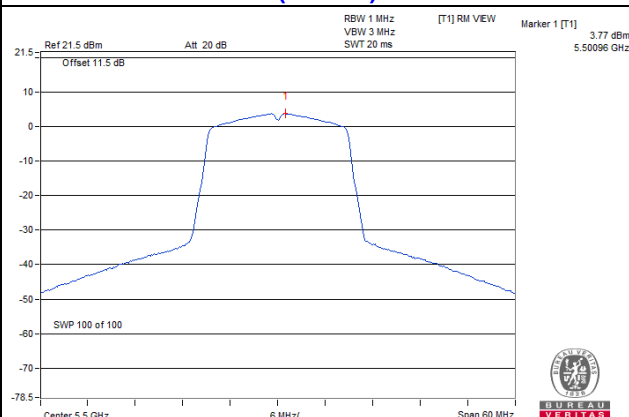
Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Pass / Fail
42	5210	-3.84	11.00	Pass
58	5290	-2.64	11.00	Pass
106	5530	-3.21	11.00	Pass
122	5610	-2.96	11.00	Pass
138 (U-NII-2C Band)	5690	-2.75	11.00	Pass

Spectrum Plot of Worst Value

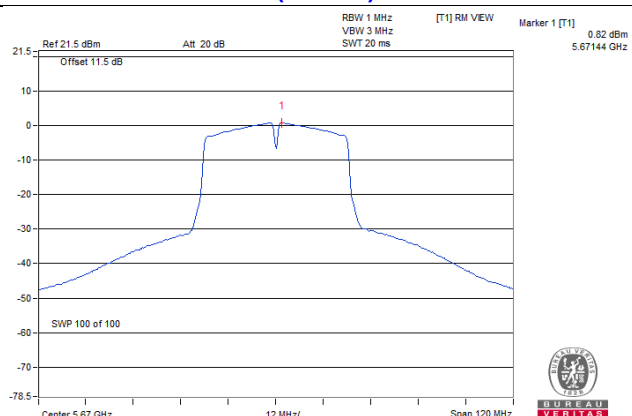
802.11a / CH100



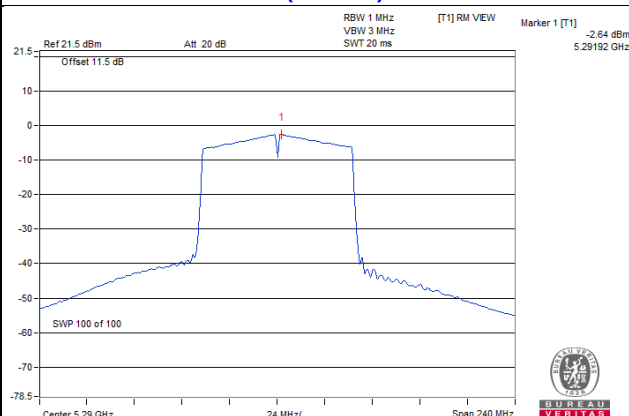
802.11ac (VHT20) / CH100



802.11ac (VHT40) / CH134



802.11ac (VHT80) / CH58



For U-NII-3 band:

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
144 (U-NII-3 Band)	5720	-6.10	-3.88	30.00	Pass
149	5745	-4.21	-1.99	30.00	Pass
157	5785	-4.11	-1.89	30.00	Pass
165	5825	-4.55	-2.33	30.00	Pass

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
144 (U-NII-3 Band)	5720	-6.44	-4.22	30.00	Pass
149	5745	-4.58	-2.36	30.00	Pass
157	5785	-4.53	-2.31	30.00	Pass
165	5825	-4.47	-2.25	30.00	Pass

802.11ac (VHT40)

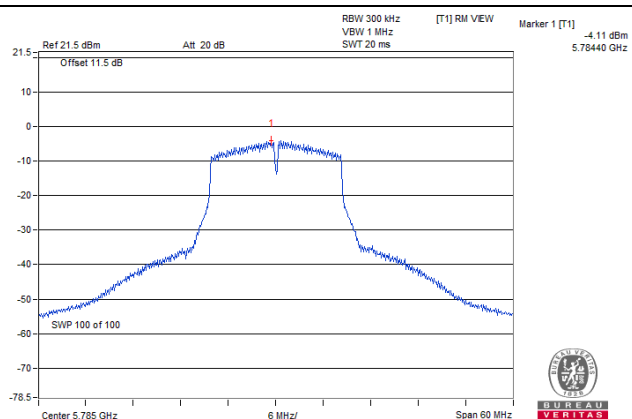
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
142 (U-NII-3 Band)	5710	-10.87	-8.65	30.00	Pass
151	5755	-8.33	-6.11	30.00	Pass
159	5795	-8.08	-5.86	30.00	Pass

802.11ac (VHT80)

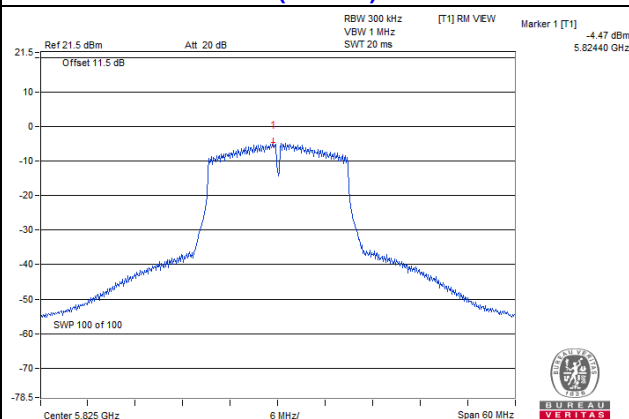
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
138 (U-NII-3 Band)	5690	-14.97	-12.75	30.00	Pass
155	5775	-11.39	-9.17	30.00	Pass

Spectrum Plot of Worst Value

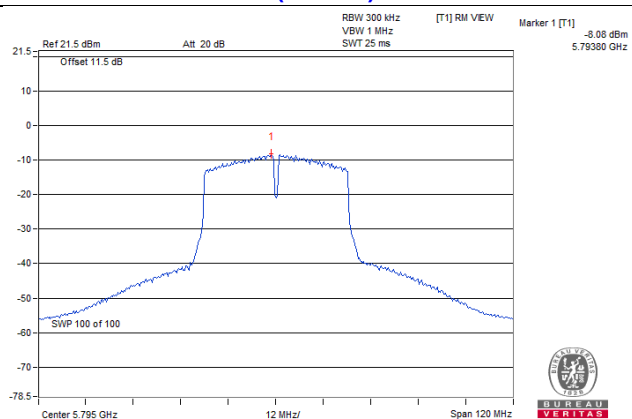
802.11a / CH157



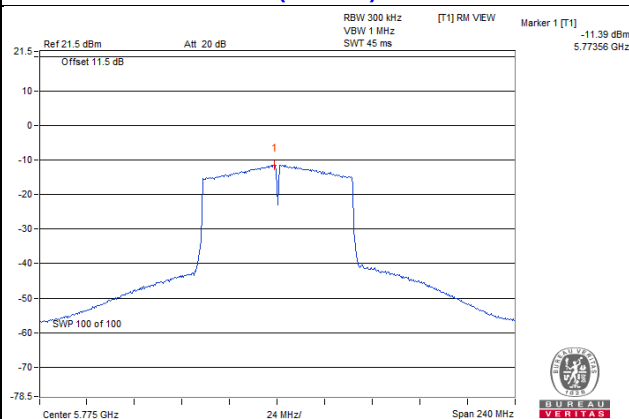
802.11ac (VHT20) / CH165



802.11ac (VHT40) / CH159



802.11ac (VHT80) / CH155

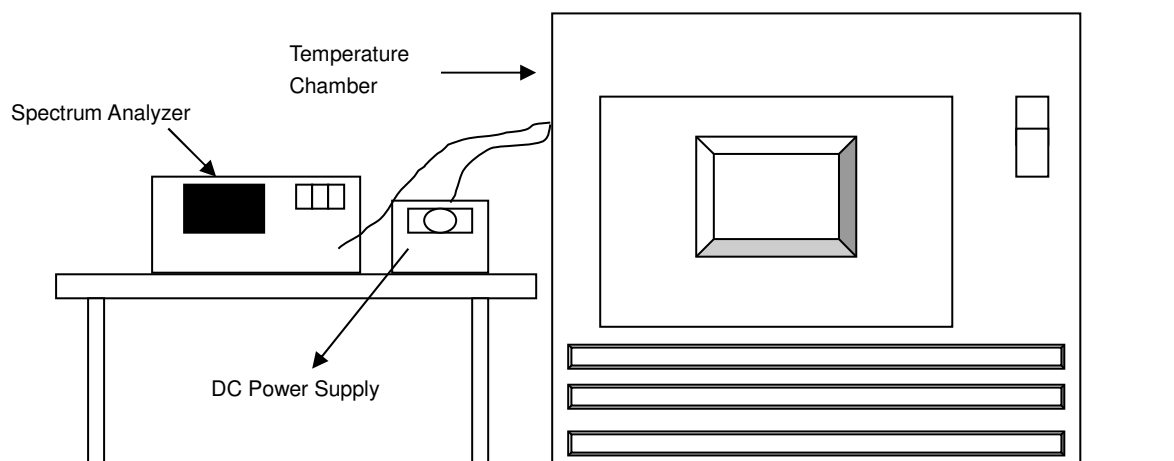


4.6 Frequency Stability Measurement

4.6.1 Limits of Frequency Stability Measurement

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

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- 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.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- 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.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

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

4.6.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
60	3.3	5179.9853	Pass	5179.9891	Pass	5179.9842	Pass	5179.985	Pass
50	3.3	5180.0236	Pass	5180.0217	Pass	5180.0228	Pass	5180.0241	Pass
40	3.3	5180.0099	Pass	5180.0072	Pass	5180.0115	Pass	5180.0072	Pass
30	3.3	5179.9902	Pass	5179.991	Pass	5179.9888	Pass	5179.9936	Pass
20	3.3	5179.9847	Pass	5179.9831	Pass	5179.9811	Pass	5179.9816	Pass
10	3.3	5179.9892	Pass	5179.989	Pass	5179.9915	Pass	5179.9899	Pass
0	3.3	5179.9942	Pass	5179.995	Pass	5179.9951	Pass	5179.9946	Pass
-10	3.3	5179.9842	Pass	5179.9843	Pass	5179.9855	Pass	5179.986	Pass

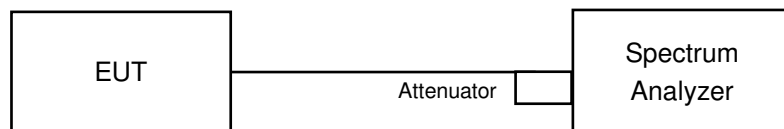
Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	3.795	5179.9855	Pass	5179.9824	Pass	5179.9816	Pass	5179.9821	Pass
	3.3	5179.9847	Pass	5179.9831	Pass	5179.9811	Pass	5179.9816	Pass
	2.805	5179.9848	Pass	5179.984	Pass	5179.9804	Pass	5179.9806	Pass

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

MEASUREMENT PROCEDURE REF

- a. Set resolution bandwidth (RBW) = 100kHz
- b. Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
1. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission. In order to obtain results more easily, change max hold to view. It has no effect on the result

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.7.7 Test Results (Mode 1)

802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
144 (U-NII-3 Band)	5720	3.8	3.81	Pass
149	5745	17.64	17.64	Pass
157	5785	17.64	17.64	Pass
165	5825	17.64	17.63	Pass

802.11ac (VHT40)

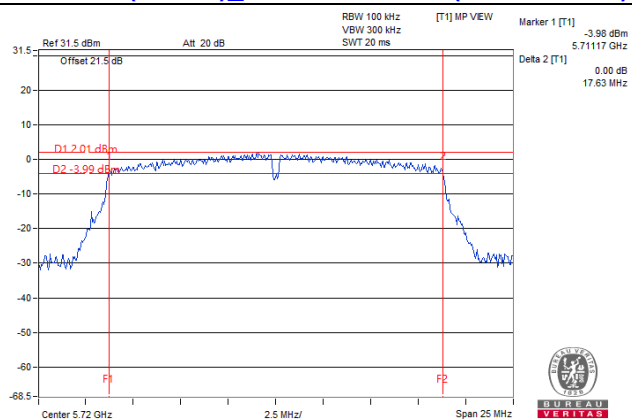
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
142 (U-NII-3 Band)	5710	3.22	3.23	Pass
151	5755	36.42	36.42	Pass
159	5795	36.44	36.45	Pass

802.11ac (VHT80)

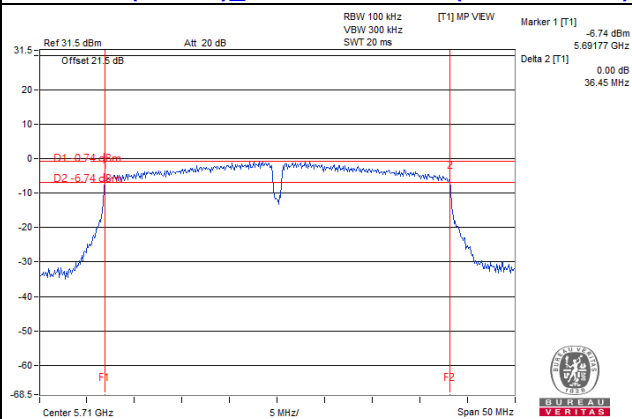
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
138 (U-NII-3 Band)	5690	3.28	3.26	Pass
155	5775	76.46	76.58	Pass

Spectrum Plot of Worst Value

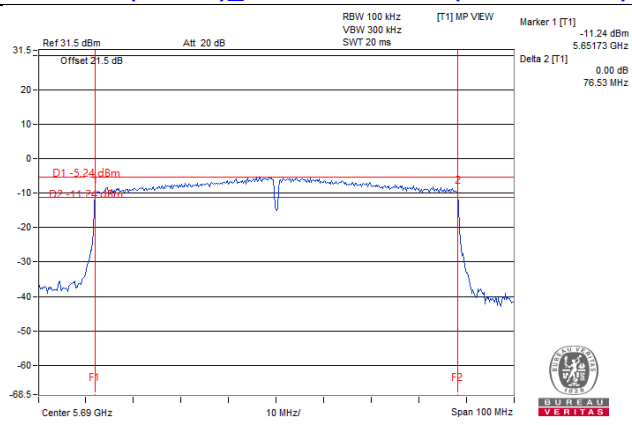
802.11ac (VHT20)_Chain 0 / CH144 (U-NII-3 Band)



802.11ac (VHT40)_Chain 0 / CH142 (U-NII-3 Band)



802.11ac (VHT80)_Chain 1 / CH138 (U-NII-3 Band)



Note: The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

4.7.8 Test Results (Mode 2)

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Pass / Fail
144 (U-NII-3 Band)	5720	3.18	Pass
149	5745	16.4	Pass
157	5785	16.42	Pass
165	5825	16.39	Pass

802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Pass / Fail
144 (U-NII-3 Band)	5720	3.82	Pass
149	5745	17.62	Pass
157	5785	17.66	Pass
165	5825	17.67	Pass

802.11ac (VHT40)

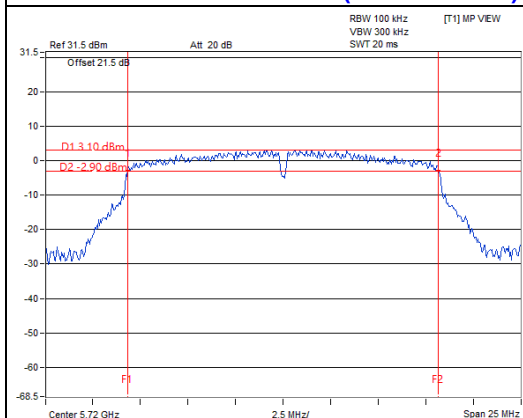
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Pass / Fail
142 (U-NII-3 Band)	5710	3.21	Pass
151	5755	36.44	Pass
159	5795	36.43	Pass

802.11ac (VHT80)

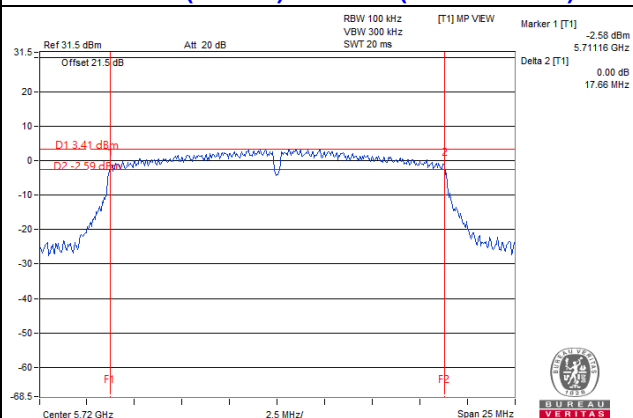
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Pass / Fail
138 (U-NII-3 Band)	5690	3.24	Pass
155	5775	76.49	Pass

Spectrum Plot of Worst Value

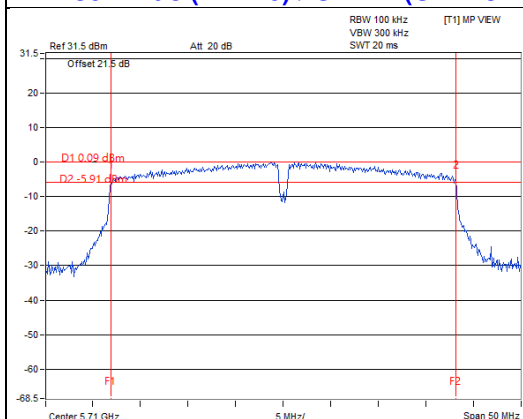
802.11a / CH144 (U-NII-3 Band)



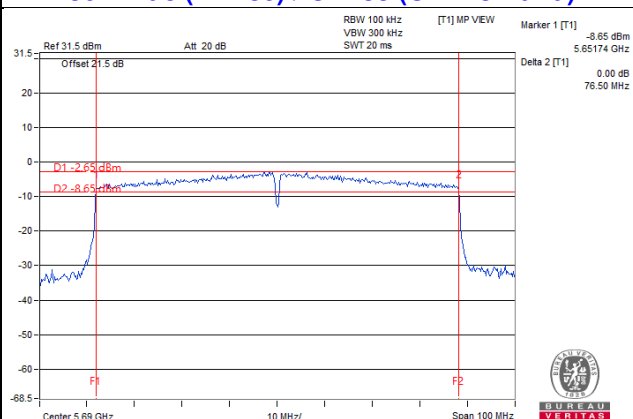
802.11ac (VHT20) / CH144 (U-NII-3 Band)



802.11ac (VHT40) / CH142 (U-NII-3 Band)



802.11ac (VHT80) / CH138 (U-NII-3 Band)



Note: The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

5 Pictures of Test Arrangements

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

Appendix – Information of 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 FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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

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Web Site: www.bureauveritas-adt.com

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

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