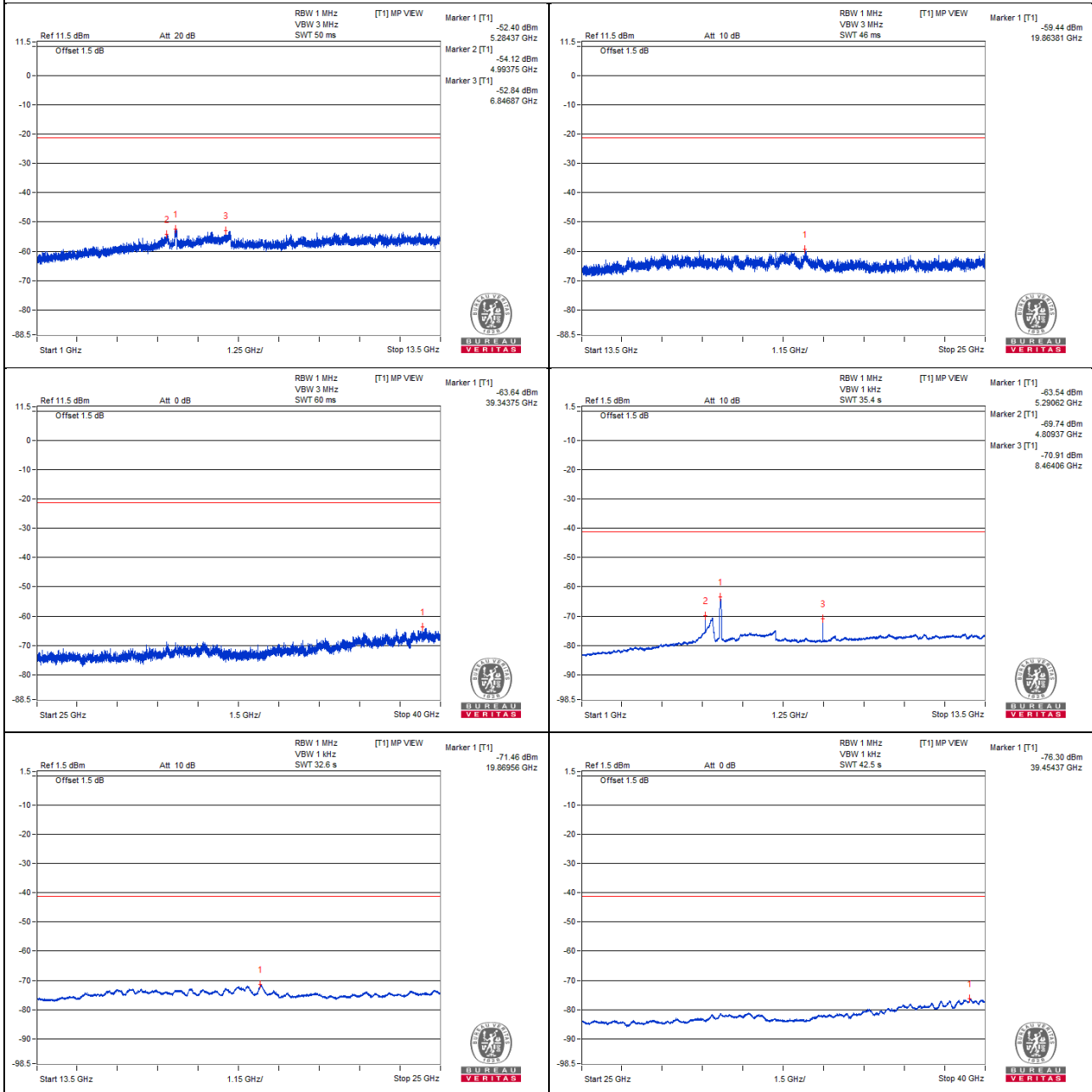
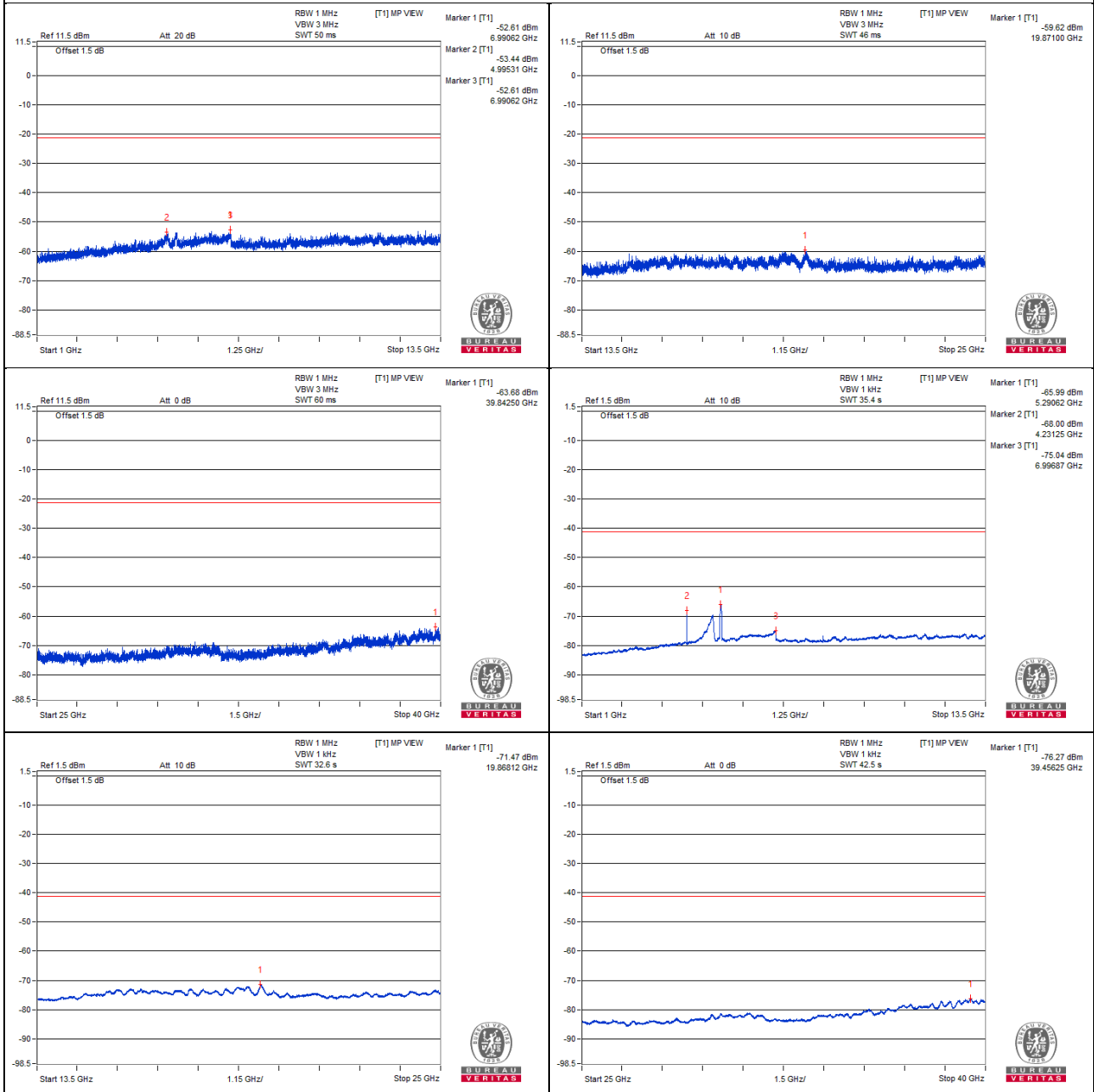


Chain 0



Chain 1



Bandedge 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	5293.62 PK	103.46	*		-0.78	8.98	8.2
2	5350 PK	61.26	74	-12.74	-42.98	8.98	-34
3	5350.37 PK	62.8	74	-11.2	-41.44	8.98	-32.46
4	5291.82 AV	91.93	*		-12.31	8.98	-3.33
5	5350 AV	49.69	54	-4.31	-54.55	8.98	-45.57
6	5350.2 AV	49.7	54	-4.3	-54.54	8.98	-45.56

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. * : Fundamental frequency, the limit was restricted at the output power.

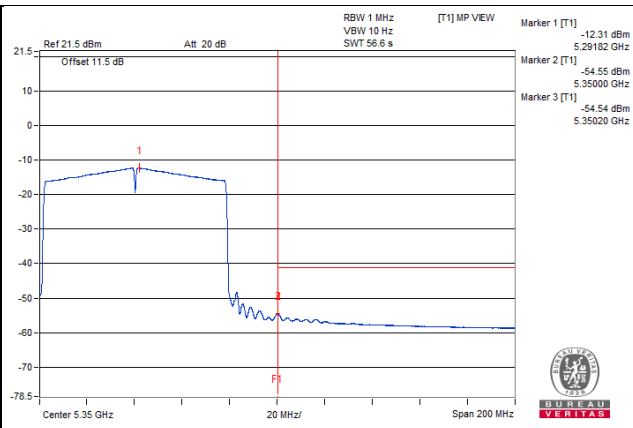
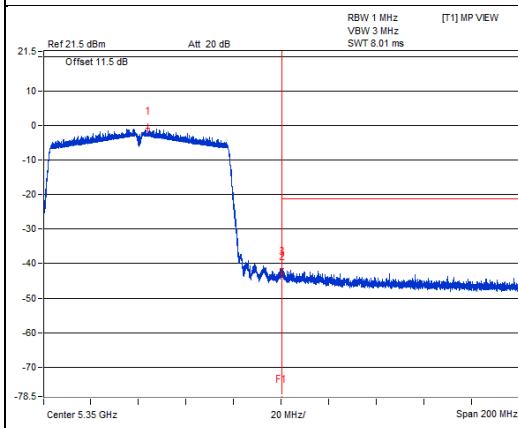
Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5286.25 PK	102.29	*		-1.38	8.41	7.03
2	5350 PK	60.48	74	-13.52	-43.19	8.41	-34.78
3	5350.27 PK	61.74	74	-12.26	-41.93	8.41	-33.52
4	5291.85 AV	90.51	*		-13.16	8.41	-4.75
5	5350 AV	48.6	54	-5.4	-55.07	8.41	-46.66
6	5350.05 AV	48.6	54	-5.4	-55.07	8.41	-46.66

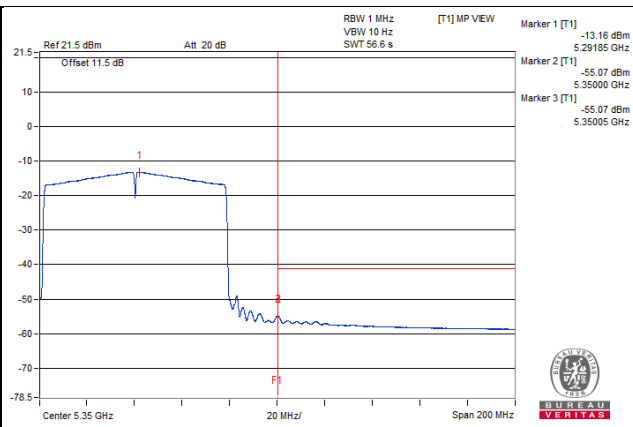
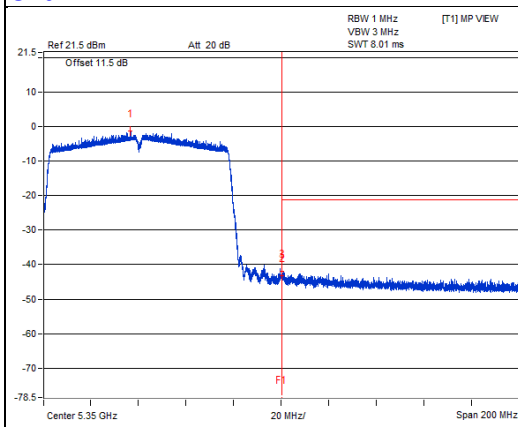
Note :

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. * : Fundamental frequency, the limit was restricted at the output power.

Chain 0



Chain 1



802.11ac (VHT80) - Channel 106

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	13251.56 PK	51.96	74	-22.04	-52.61	9.31	-43.3
2	5035.93 PK	49.92	74	-24.08	-54.65	9.31	-45.34
3	13251.56 PK	51.96	74	-22.04	-52.61	9.31	-43.3
4	19899.75 PK	45.55	74	-28.45	-59.02	9.31	-49.71
5	39476.87 PK	40.63	74	-33.37	-63.94	9.31	-54.63
6	5556.25 AV	37.92	*		-66.65	9.31	-57.34
7	5050 AV	34.2	54	-19.8	-70.37	9.31	-61.06
8	6009.37 AV	35.88	#		-68.69	9.31	-59.38
9	19886.81 AV	33.04	54	-20.96	-71.53	9.31	-62.22
10	39484.37 AV	28.33	54	-25.67	-76.24	9.31	-66.93

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. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

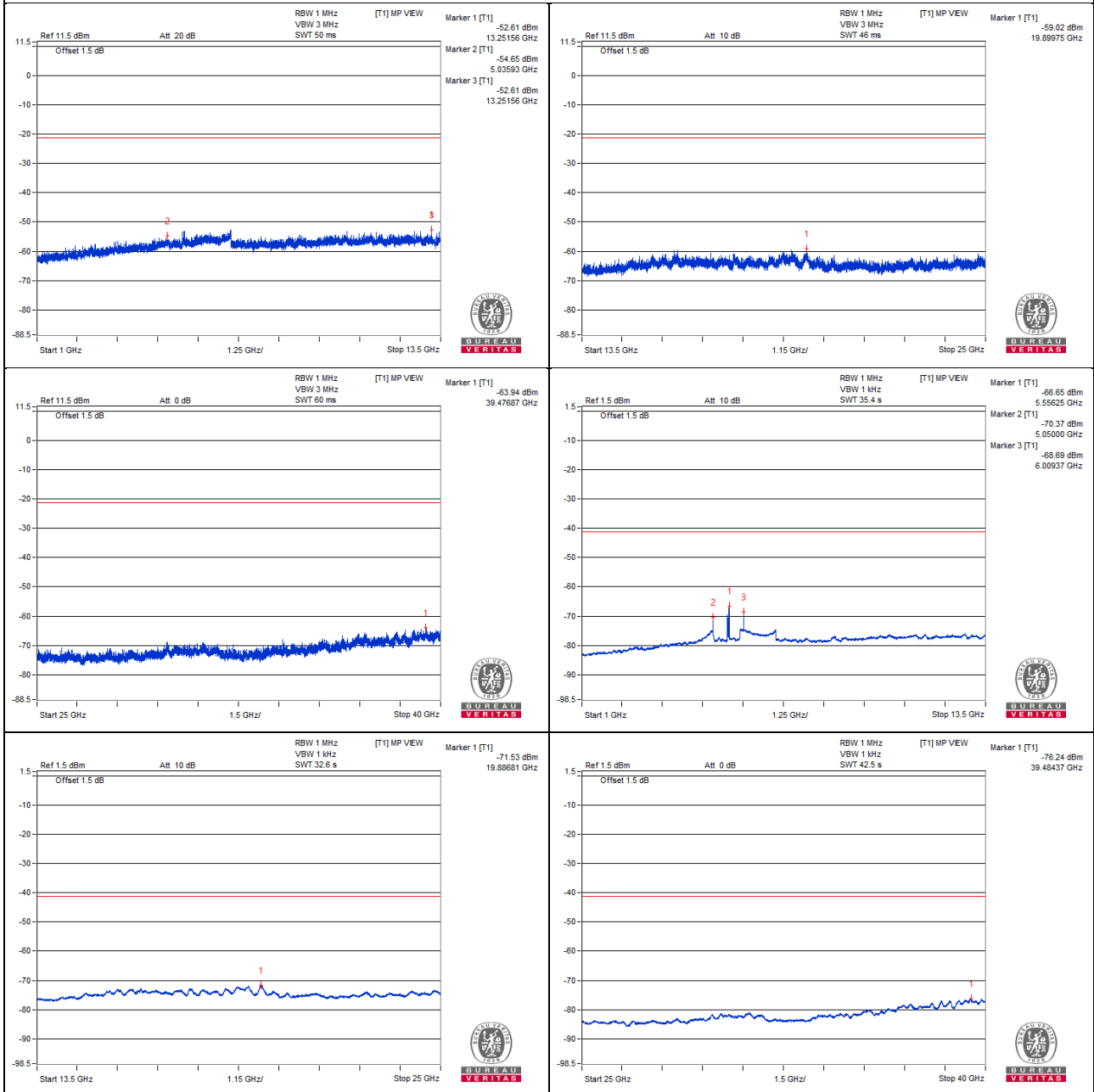
Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	6995.31 PK	53.21	68.2	-14.99	-52.28	10.23	-42.05
2	5048.43 PK	50.69	74	-23.31	-54.8	10.23	-44.57
3	6995.31 PK	53.21	68.2	-14.99	-52.28	10.23	-42.05
4	19215.5 PK	45.92	74	-28.08	-59.57	10.23	-49.34
5	39495.62 PK	42.19	74	-31.81	-63.3	10.23	-53.07
6	5557.81 AV	36.61	*		-68.88	10.23	-58.65
7	4423.43 AV	35.84	#		-69.65	10.23	-59.42
8	6990.62 AV	30.54	#		-74.95	10.23	-64.72
9	19894 AV	34.01	54	-19.99	-71.48	10.23	-61.25
10	39476.87 AV	29.28	54	-24.72	-76.21	10.23	-65.98

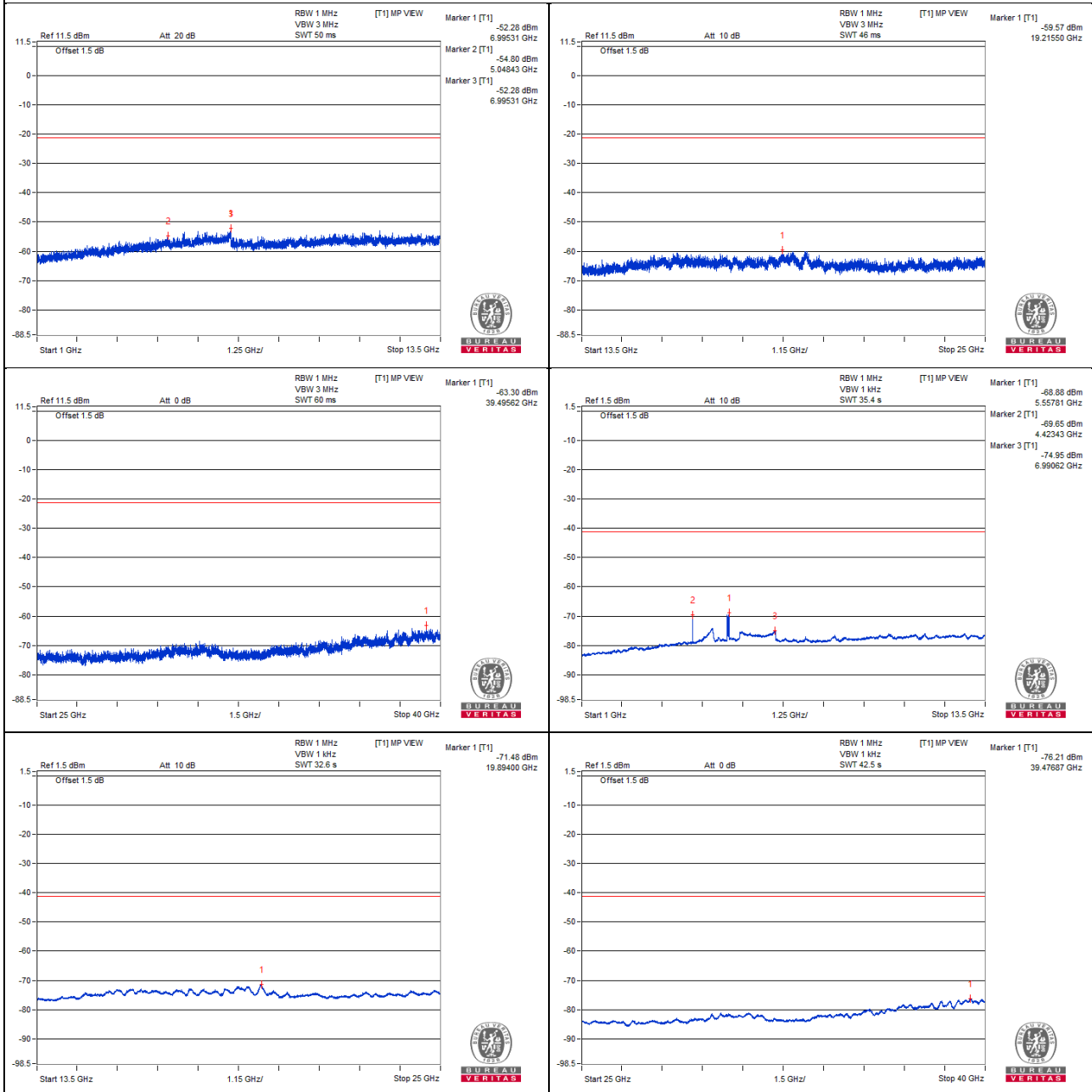
Note :

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. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0



Chain 1



Bandedge 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	5526.65 PK	103.96	*		-0.24	8.94	8.7
2	5470 PK	61.15	68.2	-7.05	-43.05	8.94	-34.11
3	5466.37 PK	63.48	68.2	-4.72	-40.72	8.94	-31.78
4	5528.31 AV	92.47	*		-11.73	8.94	-2.79
5	5470 AV	49.82	#		-54.38	8.94	-45.44
6	5469.84 AV	49.91	#		-54.29	8.94	-45.35

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. * : Fundamental frequency, the limit was restricted at the output power.
4. # : 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	5526 PK	104.69	*		-0.8	10.23	9.43
2	5470 PK	63.04	68.2	-5.16	-42.45	10.23	-32.22
3	5469.78 PK	64.7	68.2	-3.5	-40.79	10.23	-30.56
4	5531.15 AV	93.39	*		-12.1	10.23	-1.87
5	5470 AV	50.92	#		-54.57	10.23	-44.34
6	5469.65 AV	51.06	#		-54.43	10.23	-44.2

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. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

802.11ac (VHT80) - Channel 122

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	5645.31 PK	54.94	*		-49.63	9.31	-40.32
2	5023.43 PK	50.87	74	-23.13	-53.7	9.31	-44.39
3	6164.06 PK	51.3	68.2	-16.9	-53.27	9.31	-43.96
4	19513.06 PK	45.03	74	-28.97	-59.54	9.31	-50.23
5	39004.37 PK	40.66	74	-33.34	-63.91	9.31	-54.6
6	5646.87 AV	43.95	*		-60.62	9.31	-51.31
7	2409.37 AV	30.83	#		-73.74	9.31	-64.43
8	6089.06 AV	42.17	#		-62.4	9.31	-53.09
9	19901.18 AV	33.03	54	-20.97	-71.54	9.31	-62.23
10	39497.5 AV	28.41	54	-25.59	-76.16	9.31	-66.85

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. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

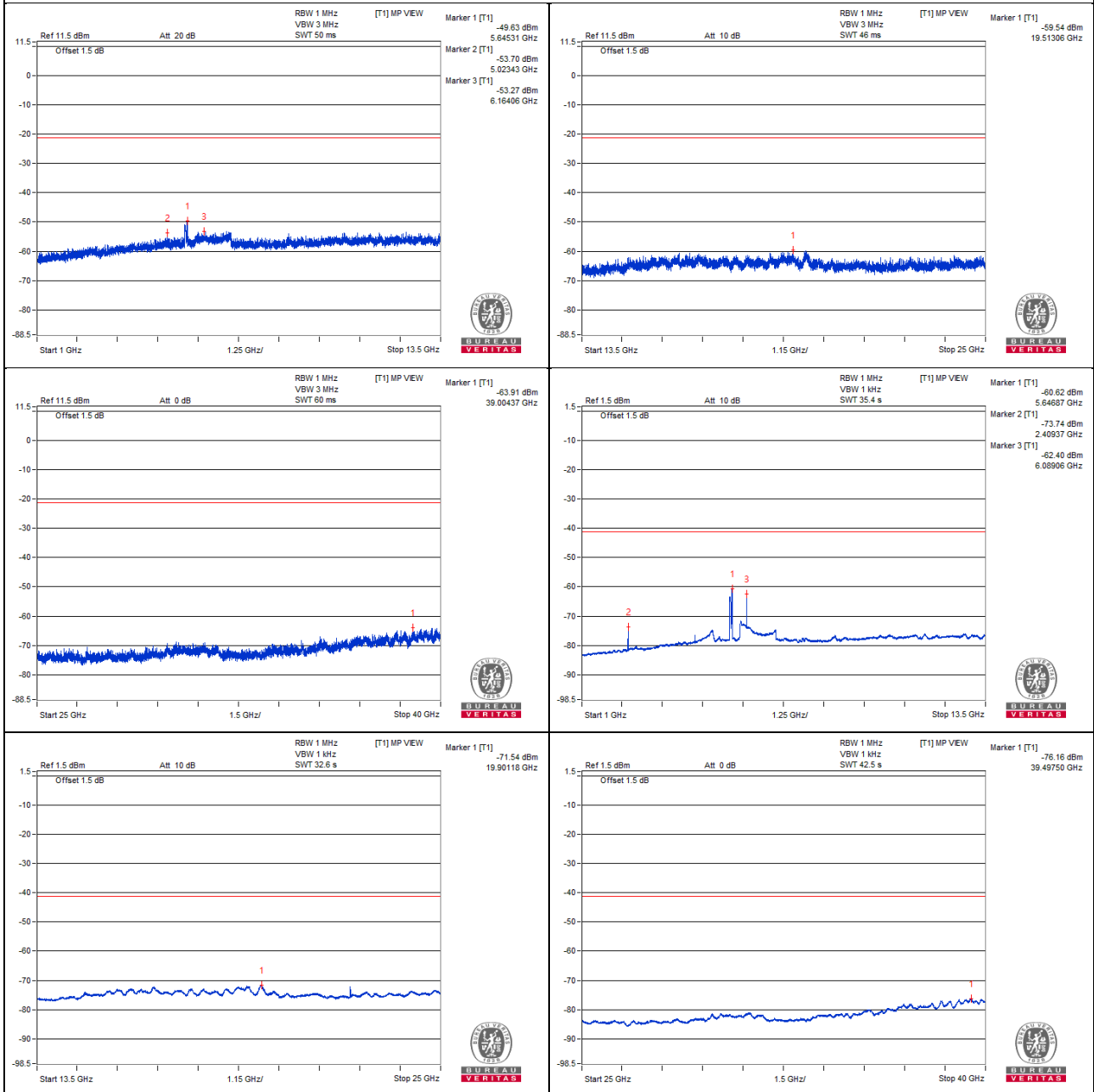
Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5637.5 PK	53.16	*		-52.33	10.23	-42.1
2	5035.93 PK	50.65	74	-23.35	-54.84	10.23	-44.61
3	10518.75 PK	52.16	68.2	-16.04	-53.33	10.23	-43.1
4	19899.75 PK	46.32	74	-27.68	-59.17	10.23	-48.94
5	39482.5 PK	42.04	74	-31.96	-63.45	10.23	-53.22
6	5635.93 AV	41.54	*		-63.95	10.23	-53.72
7	5037.5 AV	30.73	54	-23.27	-74.76	10.23	-64.53
8	5903.12 AV	32.21	#		-73.28	10.23	-63.05
9	19896.87 AV	34.17	54	-19.83	-71.32	10.23	-61.09
10	39488.12 AV	29.3	54	-24.7	-76.19	10.23	-65.96

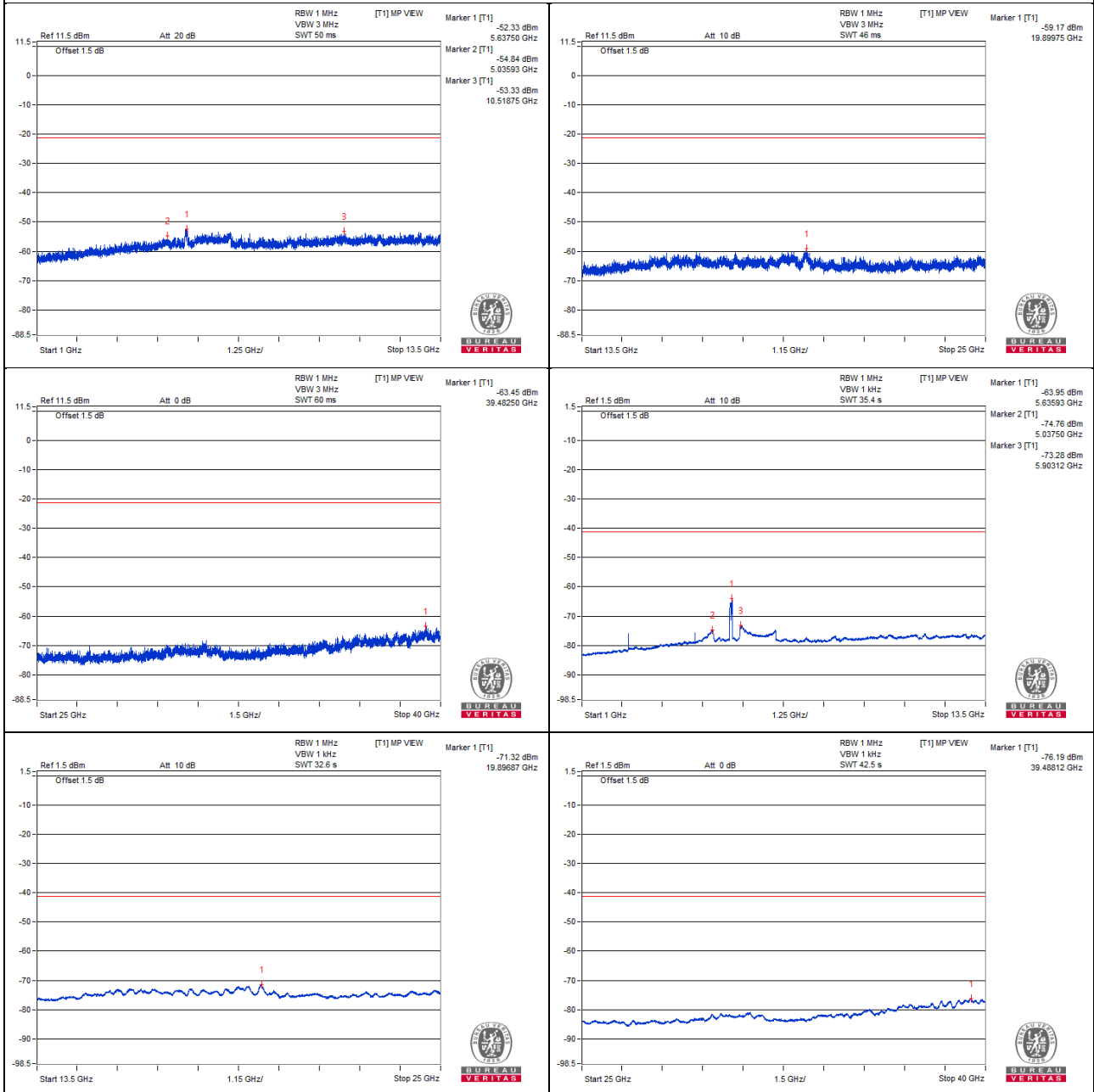
Note :

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. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0



Chain 1



Bandedge 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	5626.6 PK	107.88	*		3.68	8.94	12.62
2	5725 PK	60.14	68.2	-8.06	-44.06	8.94	-35.12
3	5732.15 PK	61.54	68.2	-6.66	-42.66	8.94	-33.72
4	5625.15 AV	96.28	*		-7.92	8.94	1.02
5	5725 AV	47.89	#		-56.31	8.94	-47.37
6	5725.22 AV	47.91	#		-56.29	8.94	-47.35

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. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

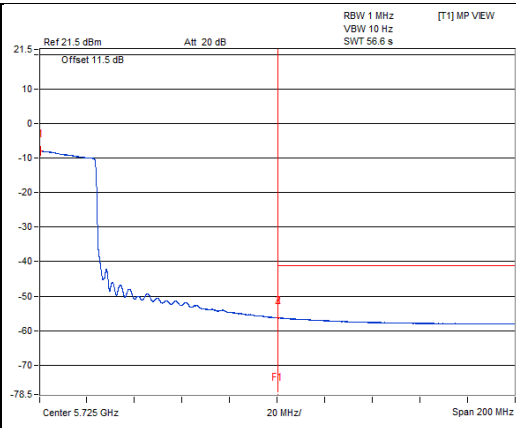
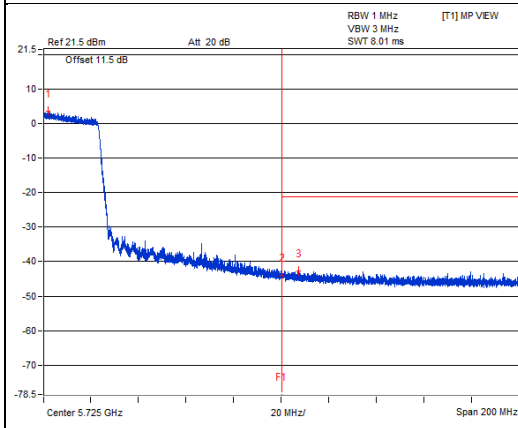
Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5629 PK	108.06	*		2.57	10.23	12.8
2	5725 PK	60.77	68.2	-7.43	-44.72	10.23	-34.49
3	5729.15 PK	62.72	68.2	-5.48	-42.77	10.23	-32.54
4	5625.12 AV	96.96	*		-8.53	10.23	1.7
5	5725 AV	48.8	#		-56.69	10.23	-46.46
6	5725 AV	48.8	#		-56.69	10.23	-46.46

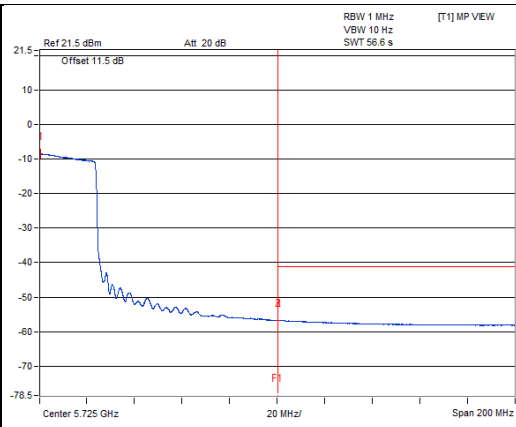
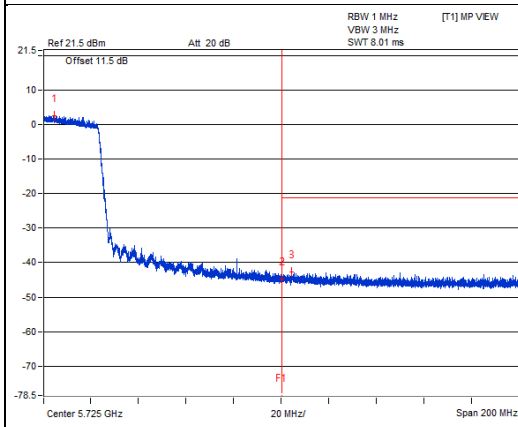
Note :

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. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0



Chain 1



802.11ac (VHT80) - Channel 138

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	5659.37 PK	55.69	*		-48.88	9.31	-39.57
2	5070.31 PK	49.8	74	-24.2	-54.77	9.31	-45.46
3	6257.81 PK	51.84	68.2	-16.36	-52.73	9.31	-43.42
4	17062.12 PK	45.96	68.2	-22.24	-58.61	9.31	-49.3
5	39506.87 PK	40.25	74	-33.75	-64.32	9.31	-55.01
6	5654.68 AV	44.03	*		-60.54	9.31	-51.23
7	4551.56 AV	34.24	54	-19.76	-70.33	9.31	-61.02
8	6170.31 AV	43.27	#		-61.3	9.31	-51.99
9	17060.68 AV	33.72	#		-70.85	9.31	-61.54
10	39454.37 AV	28.4	54	-25.6	-76.17	9.31	-66.86

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. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

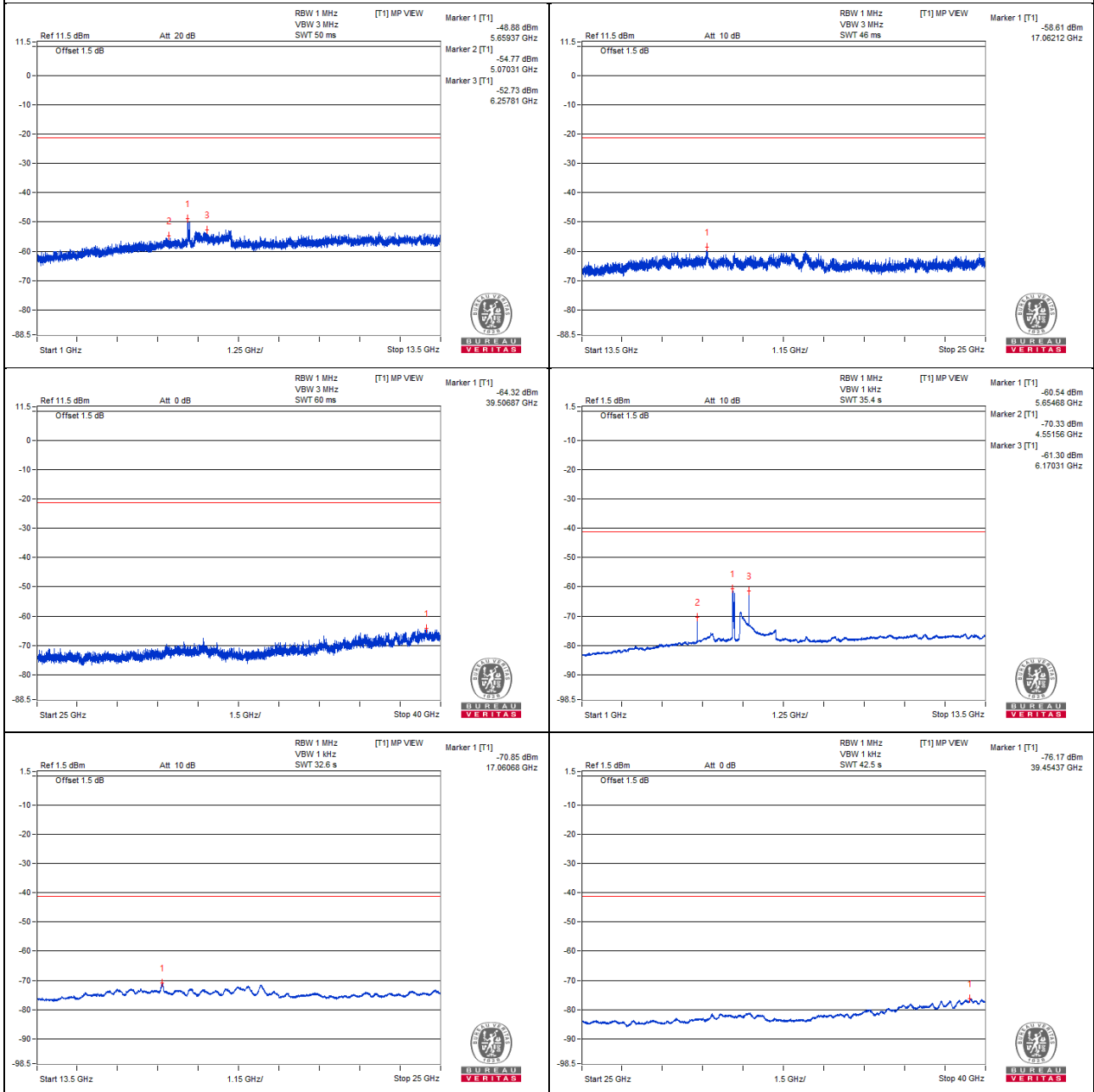
Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5662.5 PK	55.18	*		-50.31	10.23	-40.08
2	4514.06 PK	50.28	74	-23.72	-55.21	10.23	-44.98
3	6979.68 PK	52.95	68.2	-15.25	-52.54	10.23	-42.31
4	19326.18 PK	46.03	74	-27.97	-59.46	10.23	-49.23
5	39100 PK	41.46	74	-32.54	-64.03	10.23	-53.8
6	5718.75 AV	42.94	*		-62.55	10.23	-52.32
7	4551.56 AV	33.74	54	-20.26	-71.75	10.23	-61.52
8	5903.12 AV	34.13	#		-71.36	10.23	-61.13
9	19876.75 AV	34.1	54	-19.9	-71.39	10.23	-61.16
10	39488.12 AV	29.14	54	-24.86	-76.35	10.23	-66.12

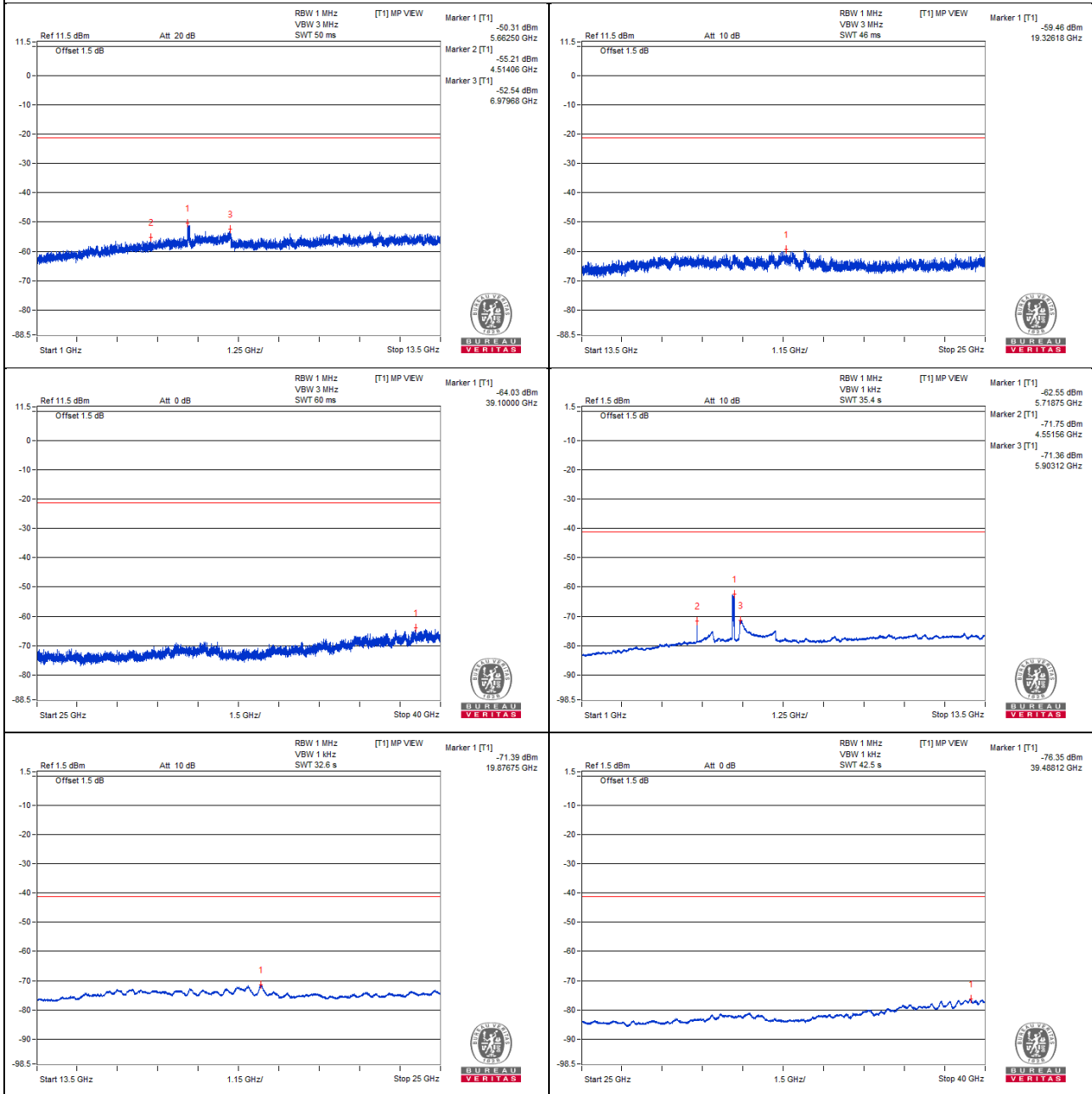
Note :

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. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0



Chain 1



Bandedge 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	5684.46 PK	109.62	*		5.05	9.31	14.36
2	5850 PK	59.26	68.2	-8.94	-45.31	9.31	-36
3	5873.57 PK	61.83	68.2	-6.37	-42.74	9.31	-33.43
4	5688.43 AV	98.22	*		-6.35	9.31	2.96
5	5850 AV	47.24	#		-57.33	9.31	-48.02
6	5851.71 AV	47.25	#		-57.32	9.31	-48.01

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. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

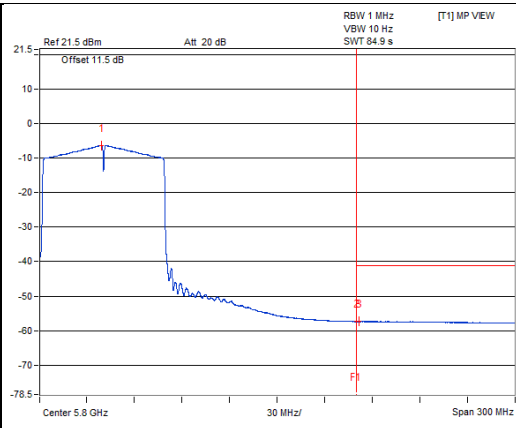
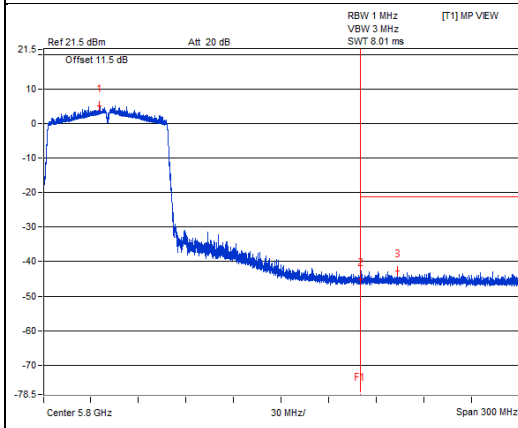
Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5686 PK	110.03	*		4.61	10.16	14.77
2	5850 PK	59.81	68.2	-8.39	-45.61	10.16	-35.45
3	5896.11 PK	62.08	68.2	-6.12	-43.34	10.16	-33.18
4	5688.06 AV	98.27	*		-7.15	10.16	3.01
5	5850 AV	47.79	#		-57.63	10.16	-47.47
6	5857.37 AV	47.9	#		-57.52	10.16	-47.36

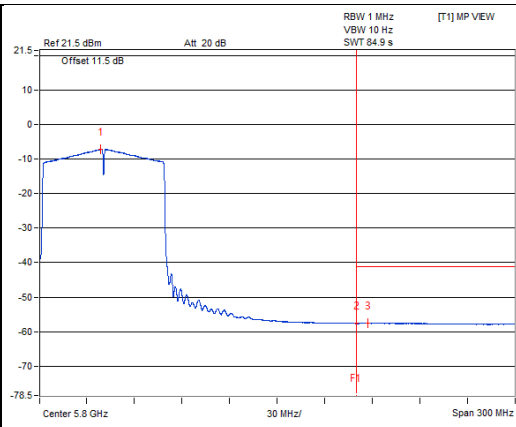
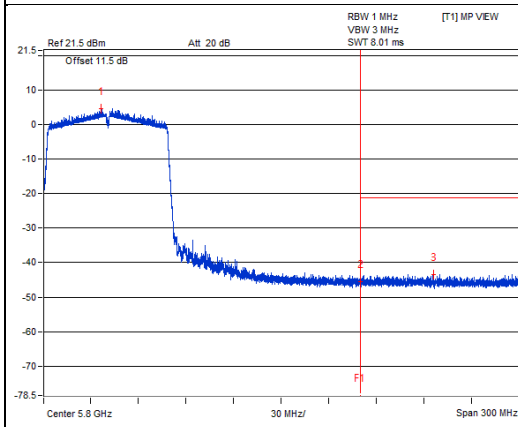
Note :

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. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0



Chain 1



802.11ac (VHT80) – Channel 155
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	5915.62 PK	53.73	68.2	-14.47	-50.84	9.31	-41.53
2	5020.31 PK	49.1	74	-24.9	-55.47	9.31	-46.16
3	5915.62 PK	53.73	68.2	-14.47	-50.84	9.31	-41.53
4	18909.31 PK	45.04	74	-28.96	-59.53	9.31	-50.22
5	39287.5 PK	40.42	74	-33.58	-64.15	9.31	-54.84
6	6254.68 AV	42.3	#		-62.27	9.31	-52.96
7	5045.31 AV	27.95	54	-26.05	-76.62	9.31	-67.31
8	6254.68 AV	42.3	#		-62.27	9.31	-52.96
9	19885.37 AV	33.17	54	-20.83	-71.4	9.31	-62.09
10	39458.12 AV	28.19	54	-25.81	-76.38	9.31	-67.07

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.

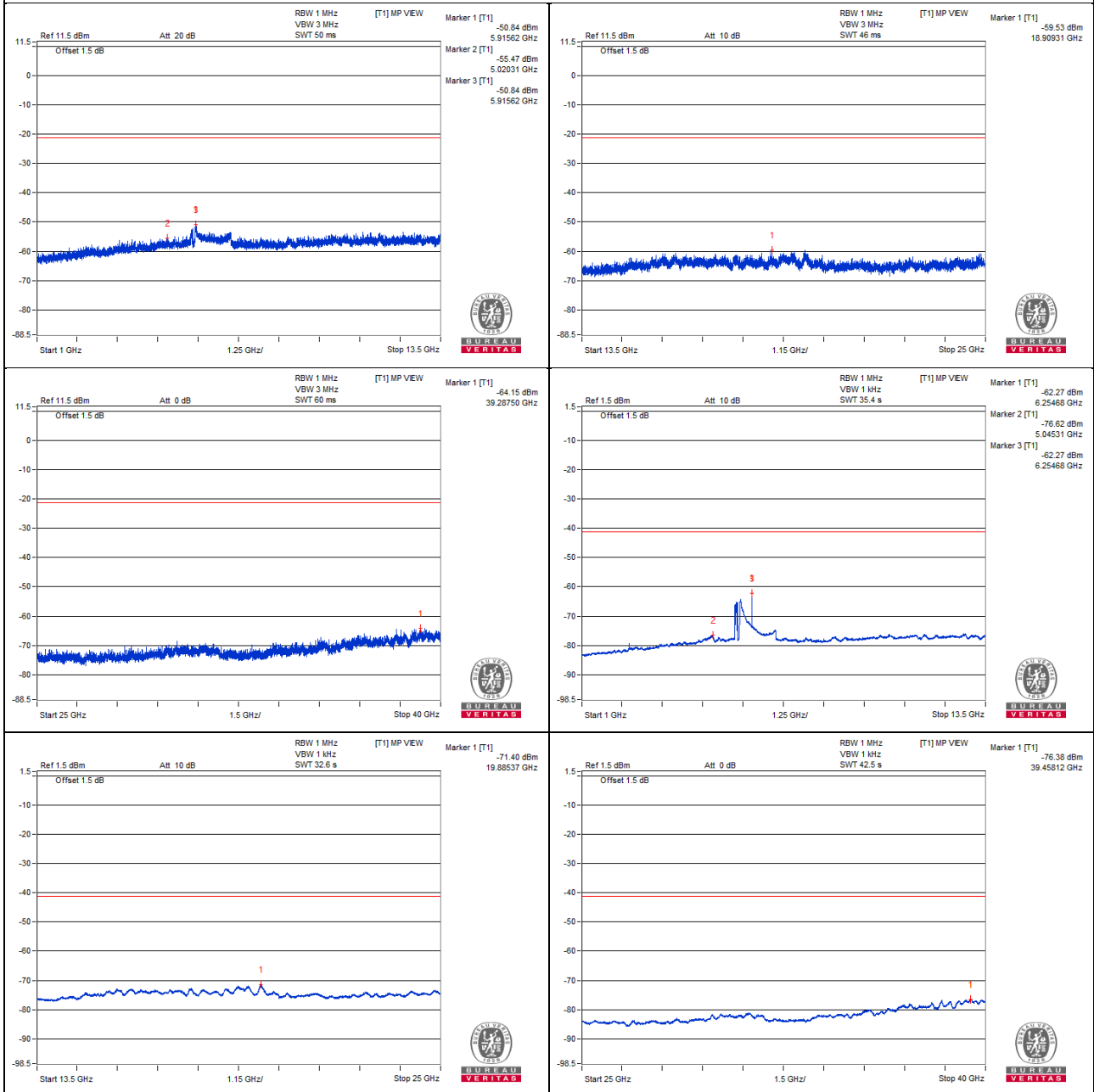
Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5776.56 PK	57.08	*		-48.41	10.23	-38.18
2	4996.87 PK	50.78	74	-23.22	-54.71	10.23	-44.48
3	5776.56 PK	57.08	*		-48.41	10.23	-38.18
4	17319.43 PK	48.1	68.2	-20.1	-57.39	10.23	-47.16
5	39296.87 PK	41.55	74	-32.45	-63.94	10.23	-53.71
6	5773.43 AV	46.05	*		-59.44	10.23	-49.21
7	4620.31 AV	33.89	54	-20.11	-71.6	10.23	-61.37
8	5776.56 AV	45.77	*		-59.72	10.23	-49.49
9	17330.93 AV	36.4	#		-69.09	10.23	-58.86
10	39486.25 AV	29.38	54	-24.62	-76.11	10.23	-65.88

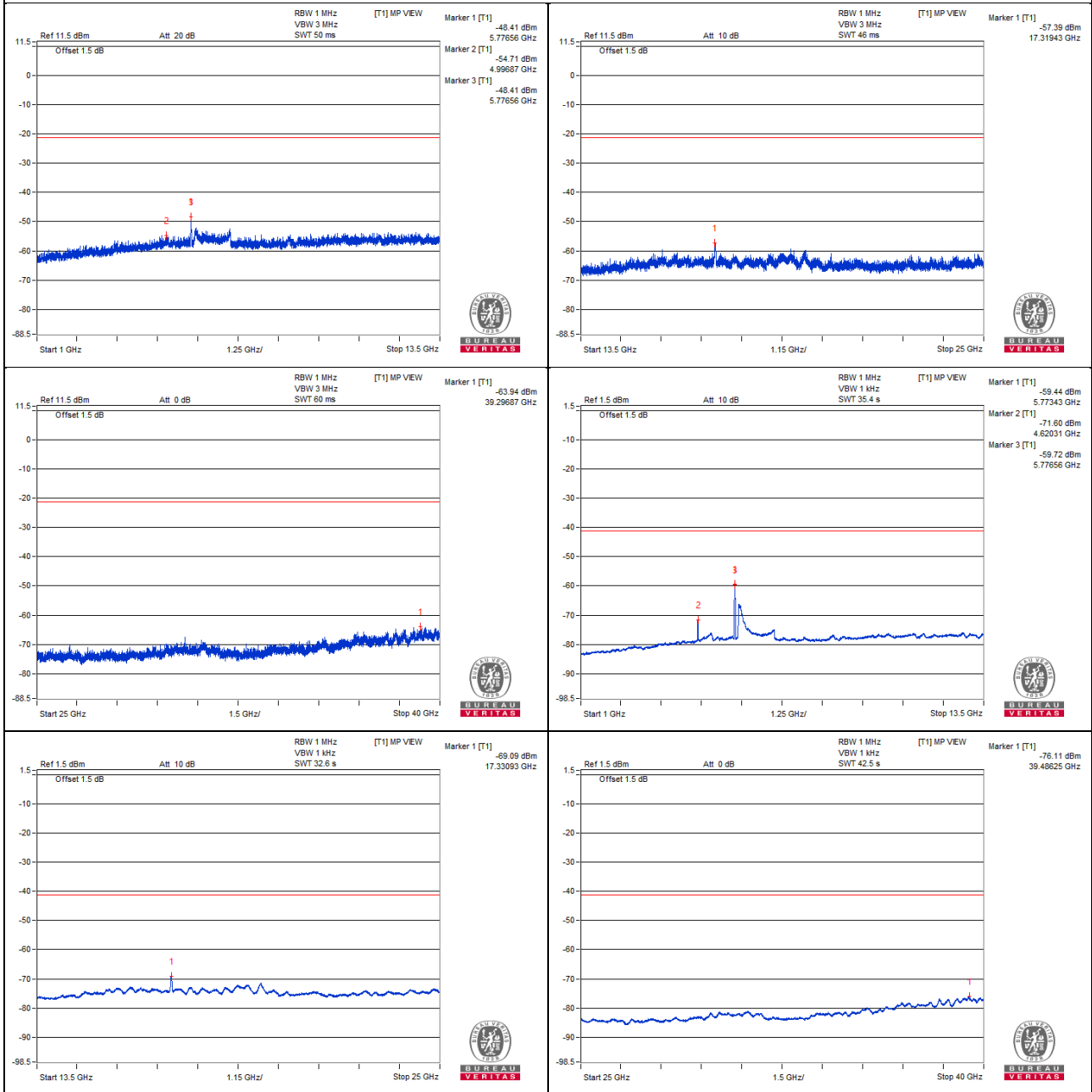
Note :

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. * : Fundamental frequency, the limit was restricted at the output power.
4. # : Non-restricted frequency, no limit for average emission.

Chain 0

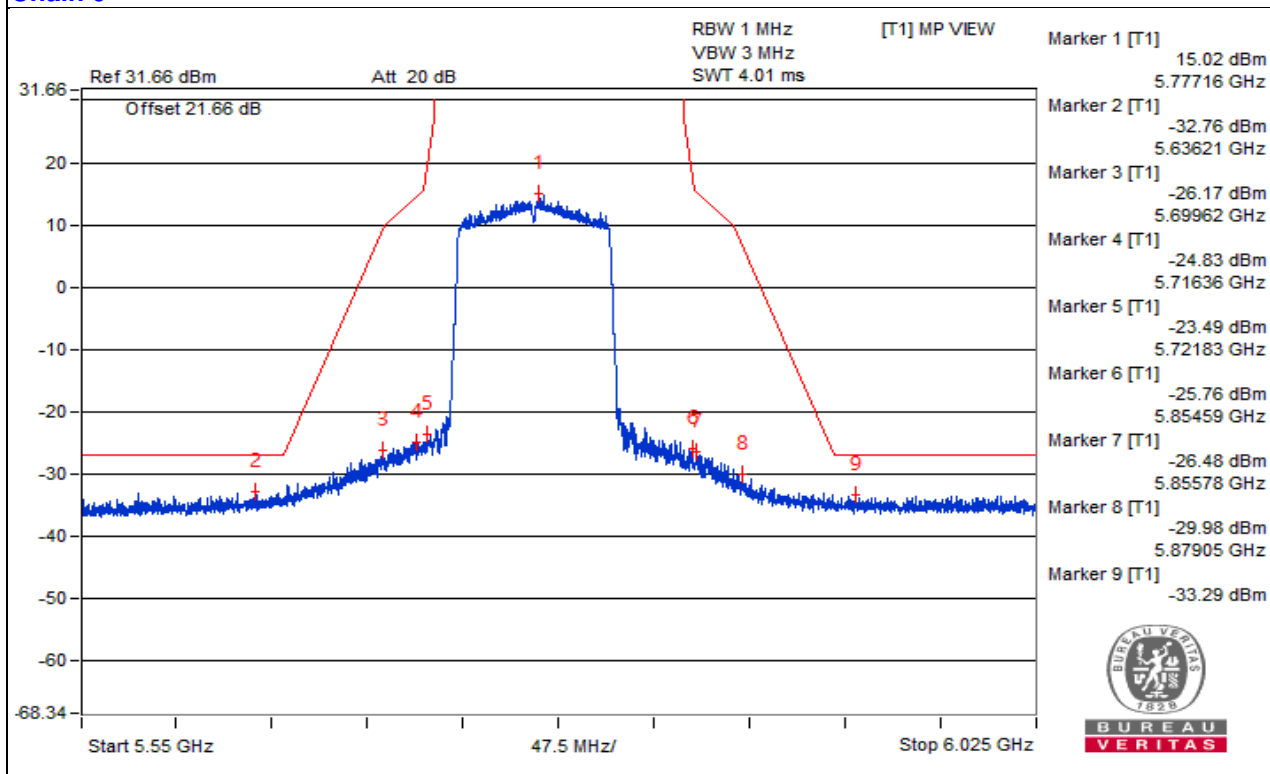


Chain 1

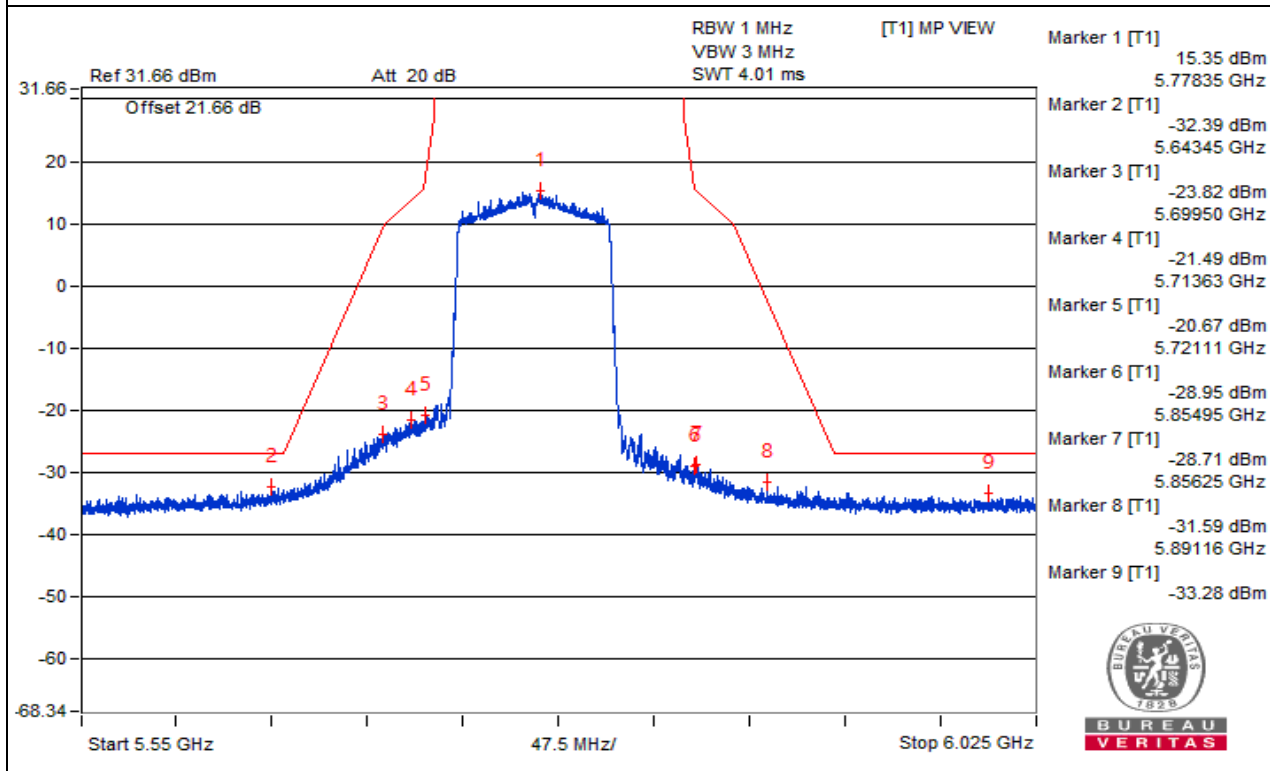


Bandedge table

Chain 0



Chain 1



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB), antenna gain (7.15 dBi) and $10\log_2(3.01\text{dB})$.
2. The test results were EIRP.

Below 1GHz Data
802.11ac (VHT20) – Channel 36
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	30.24	29.42	#		-75.15	9.31	-65.84
2	175.74	29.39	#		-75.18	9.31	-65.87
3	740.52	31.15	#		-73.42	9.31	-64.11
4	963.26	30.43	54	-23.57	-74.14	9.31	-64.83

Note :

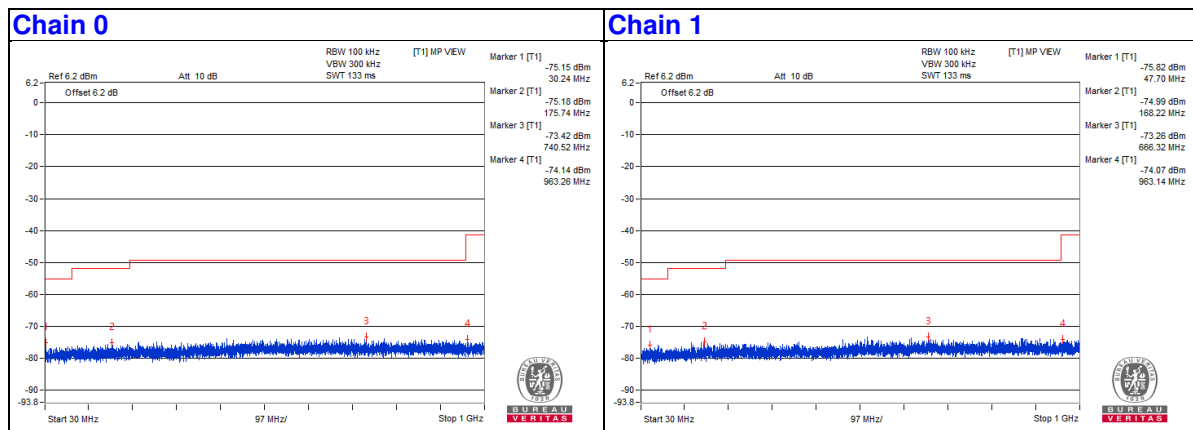
- Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
- # : Non-restricted frequency, no limit for average emission.

Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	47.7	29.67	#		-75.82	10.23	-65.59
2	168.22	30.5	43.5	-13	-74.99	10.23	-64.76
3	666.32	32.23	#		-73.26	10.23	-63.03
4	963.14	31.42	54	-22.58	-74.07	10.23	-63.84

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 64

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	80.07	28.65	#		-75.92	9.31	-66.61
2	202.05	30	#		-74.57	9.31	-65.26
3	750.83	31.5	#		-73.07	9.31	-63.76
4	970.29	30.32	54	-23.68	-74.25	9.31	-64.94

Note :

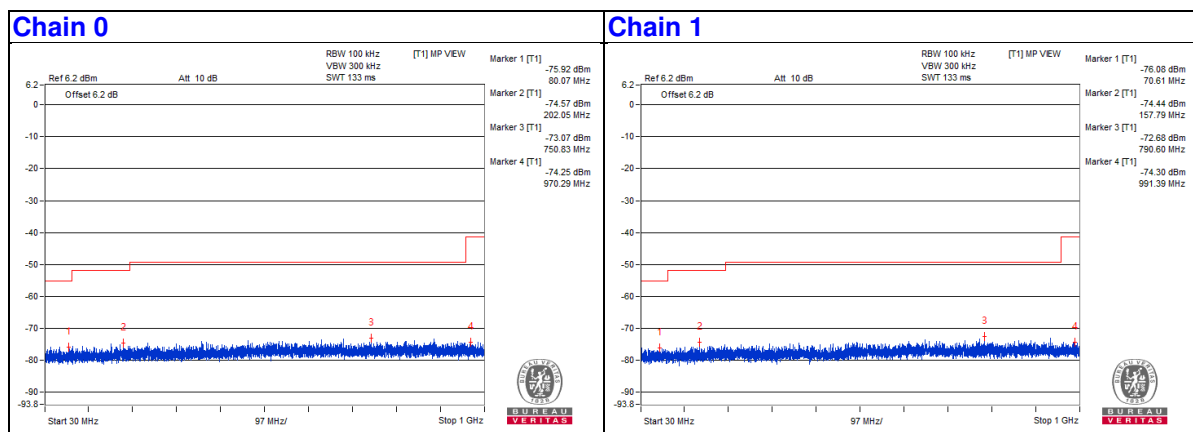
- Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
- # : Non-restricted frequency, no limit for average emission.

Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	70.61	29.41	#		-76.08	10.23	-65.85
2	157.79	31.05	#		-74.44	10.23	-64.21
3	790.6	32.81	#		-72.68	10.23	-62.45
4	991.39	31.19	54	-22.81	-74.3	10.23	-64.07

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 116

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	85.65	28.59	#		-75.98	9.31	-66.67
2	189.32	28.88	#		-75.69	9.31	-66.38
3	589.69	31.1	#		-73.47	9.31	-64.16
4	968.71	30.49	54	-23.51	-74.08	9.31	-64.77

Note :

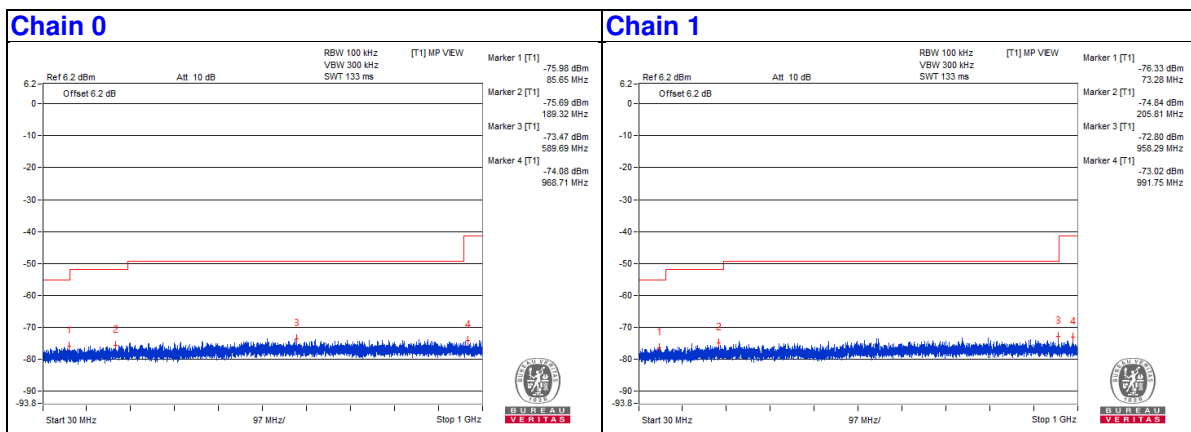
- Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
- # : Non-restricted frequency, no limit for average emission.

Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	73.28	29.16	40	-10.84	-76.33	10.23	-66.1
2	205.81	30.65	#		-74.84	10.23	-64.61
3	958.29	32.69	46	-13.31	-72.8	10.23	-62.57
4	991.75	32.47	54	-21.53	-73.02	10.23	-62.79

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.



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	82.13	28.89	#		-75.68	9.31	-66.37
2	211.63	29.06	#		-75.51	9.31	-66.2
3	684.14	31.08	#		-73.49	9.31	-64.18
4	996.84	29.82	54	-24.18	-74.75	9.31	-65.44

Note :

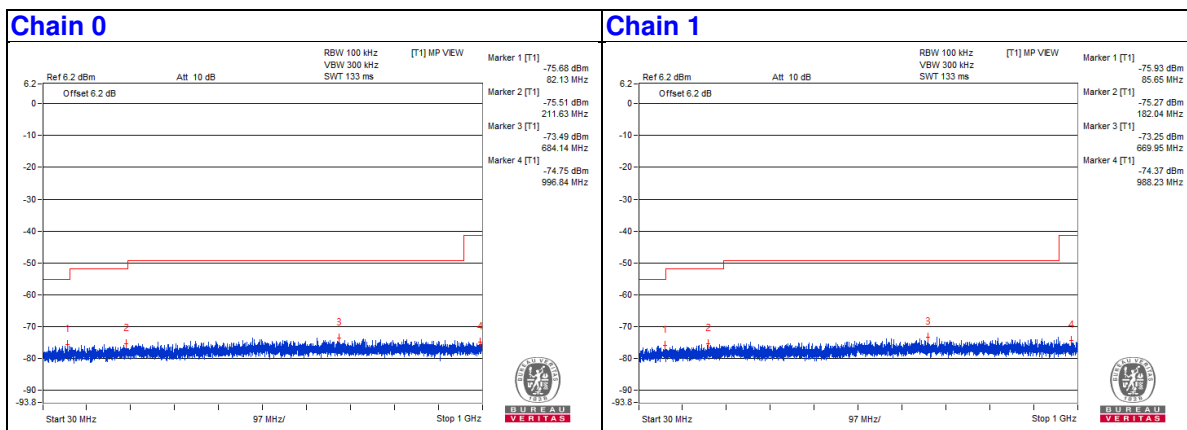
- Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- Correction Factor(dB) = Antenna Gain (dBi) + 10 log (2 of TX antenna elements)
- # : Non-restricted frequency, no limit for average emission.

Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	85.65	29.56	#		-75.93	10.23	-65.7
2	182.04	30.22	#		-75.27	10.23	-65.04
3	669.95	32.24	#		-73.25	10.23	-63.02
4	988.23	31.12	54	-22.88	-74.37	10.23	-64.14

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 (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	66.98	37.95	#		-66.62	9.31	-57.31
2	179.86	39.19	#		-65.38	9.31	-56.07
3	517.78	41.19	#		-63.38	9.31	-54.07
4	973.44	40.25	54	-13.75	-64.32	9.31	-55.01

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.

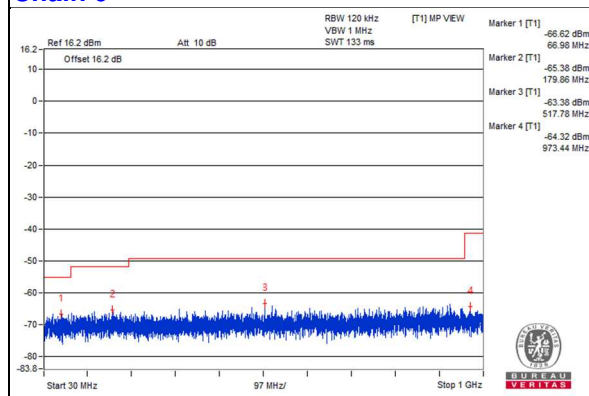
Chain 1

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	87.35	40.66	#		-64.83	10.23	-54.6
2	214.9	41.37	#		-64.12	10.23	-53.89
3	808.91	43.05	#		-62.44	10.23	-52.21
4	982.41	41.59	54	-12.41	-63.9	10.23	-53.67

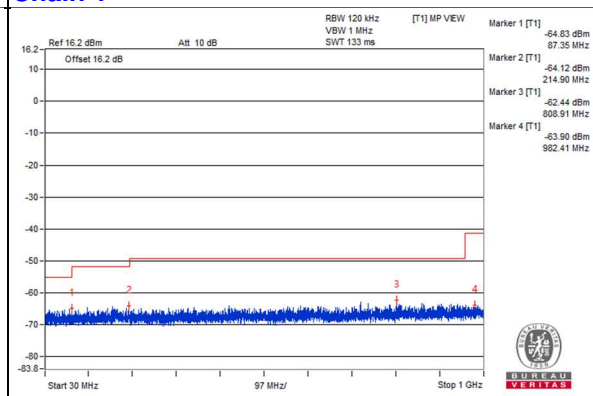
Note :

- 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



4.1.8.2 Test Results (Mode 2)

Above 1GHz Data

802.11a - Channel 36

Conducted spurious emission table

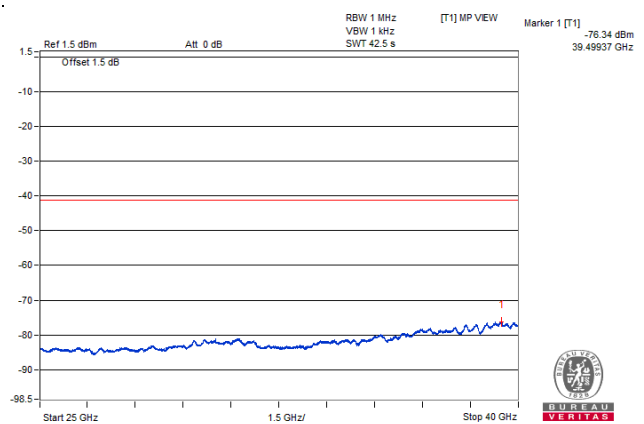
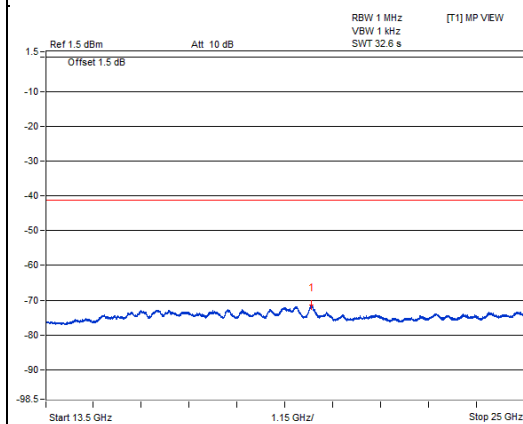
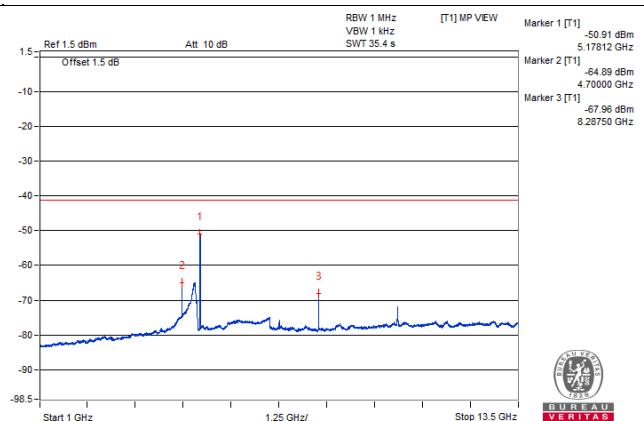
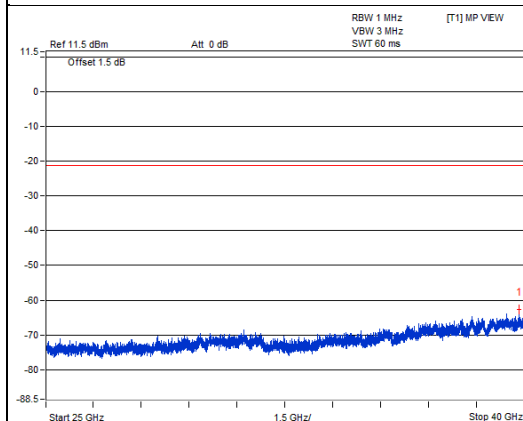
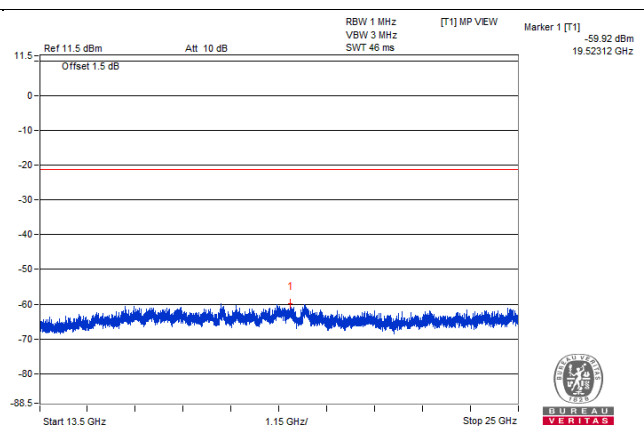
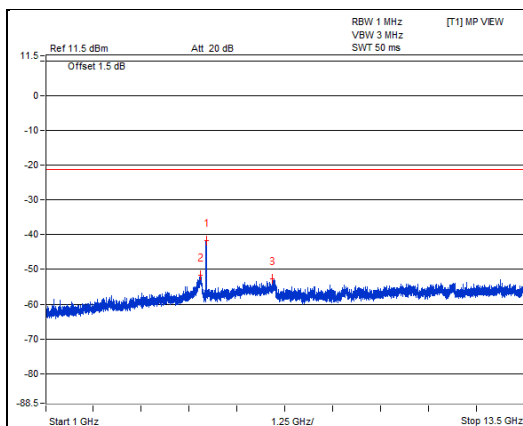
No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5181.25 PK	59.92	*		-41.64	6.3	-35.34
2	5021.87 PK	49.91	74	-24.09	-51.65	6.3	-45.35
3	6915.62 PK	48.98	68.2	-19.22	-52.58	6.3	-46.28
4	19523.12 PK	41.64	74	-32.36	-59.92	6.3	-53.62
5	39866.87 PK	38.99	74	-35.01	-62.57	6.3	-56.27
6	5178.12 AV	50.65	*		-50.91	6.3	-44.61
7	4700 AV	36.67	54	-17.33	-64.89	6.3	-58.59
8	8287.5 AV	33.6	54	-20.4	-67.96	6.3	-61.66
9	19879.62 AV	30.26	54	-23.74	-71.3	6.3	-65
10	39499.37 AV	25.22	54	-28.78	-76.34	6.3	-70.04

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.

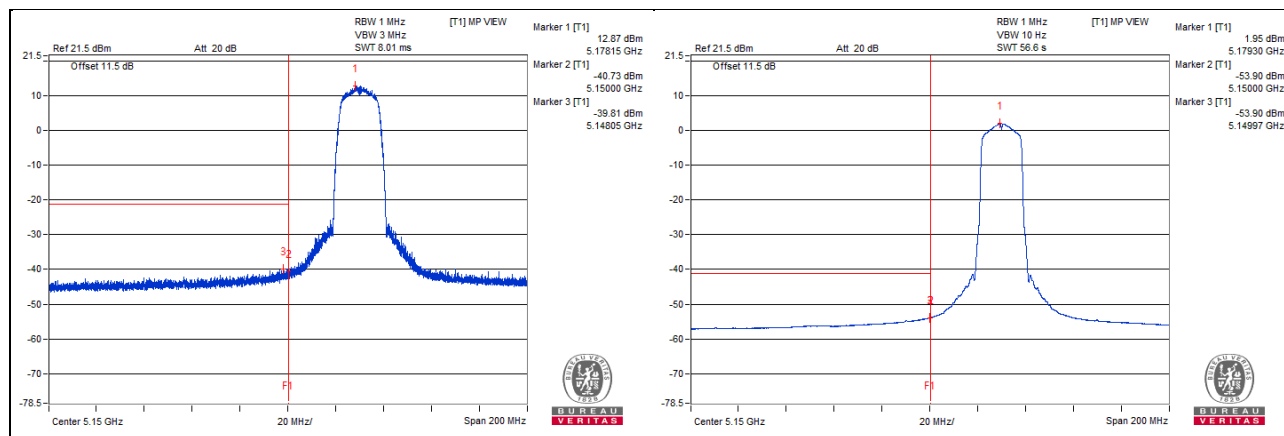


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5178.15 PK	113.73	*		12.87	5.6	18.47
2	5150 PK	60.13	74	-13.87	-40.73	5.6	-35.13
3	5148.05 PK	61.05	74	-12.95	-39.81	5.6	-34.21
4	5179.3 AV	102.81	*		1.95	5.6	7.55
5	5150 AV	46.96	54	-7.04	-53.9	5.6	-48.3
6	5149.97 AV	46.96	54	-7.04	-53.9	5.6	-48.3

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.



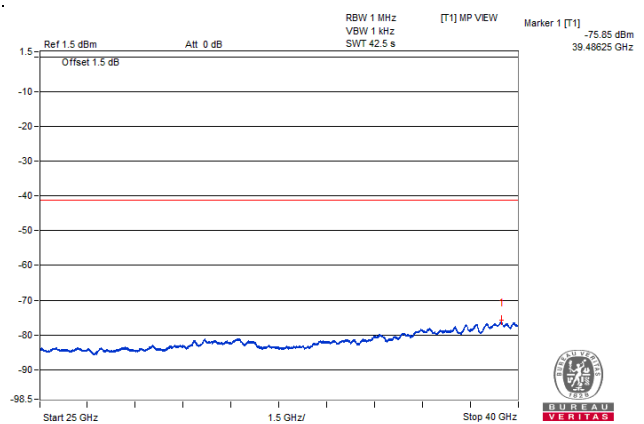
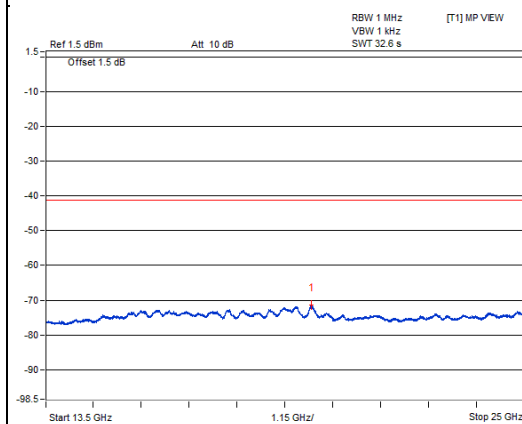
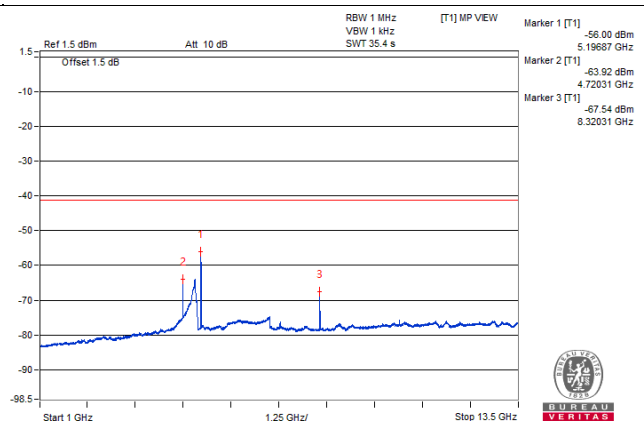
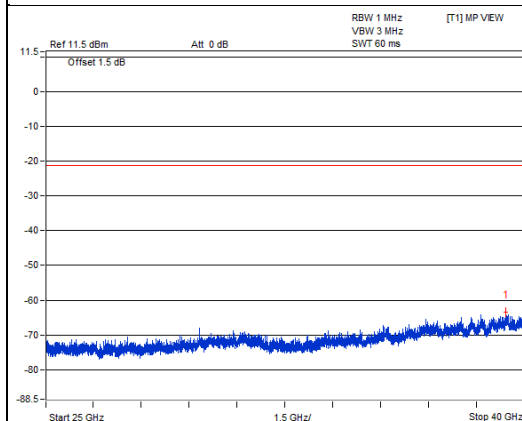
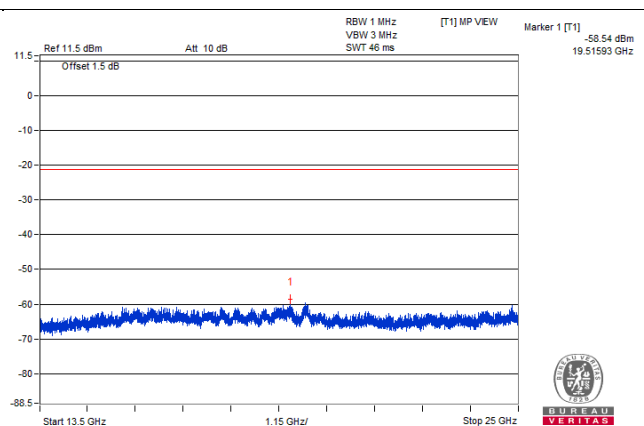
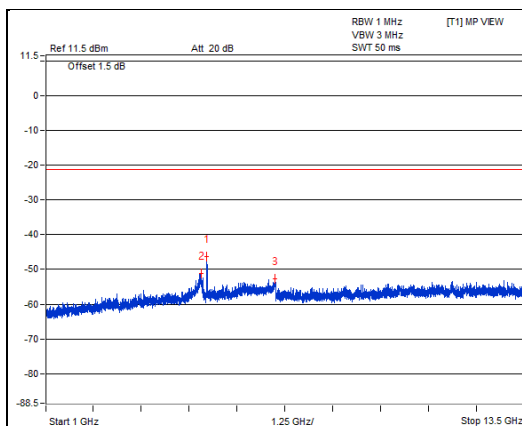
802.11a - Channel 40

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	5193.75 PK	55.37	*		-46.19	6.3	-39.89
2	5042.18 PK	50.49	74	-23.51	-51.07	6.3	-44.77
3	6984.37 PK	48.87	68.2	-19.33	-52.69	6.3	-46.39
4	19515.93 PK	43.02	74	-30.98	-58.54	6.3	-52.24
5	39445 PK	38.19	74	-35.81	-63.37	6.3	-57.07
6	5196.87 AV	45.56	*		-56	6.3	-49.7
7	4720.31 AV	37.64	54	-16.36	-63.92	6.3	-57.62
8	8320.31 AV	34.02	54	-19.98	-67.54	6.3	-61.24
9	19891.12 AV	30.13	54	-23.87	-71.43	6.3	-65.13
10	39486.25 AV	25.71	54	-28.29	-75.85	6.3	-69.55

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.

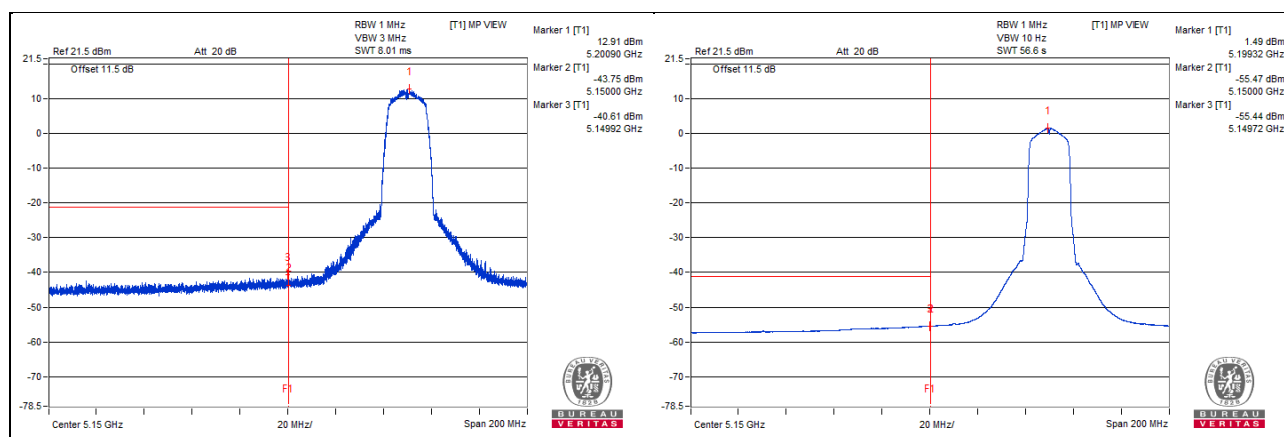


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5200.9 PK	113.77	*		12.91	5.6	18.51
2	5150 PK	57.11	74	-16.89	-43.75	5.6	-38.15
3	5149.92 PK	60.25	74	-13.75	-40.61	5.6	-35.01
4	5199.32 AV	102.35	*		1.49	5.6	7.09
5	5150 AV	45.39	54	-8.61	-55.47	5.6	-49.87
6	5149.72 AV	45.42	54	-8.58	-55.44	5.6	-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.



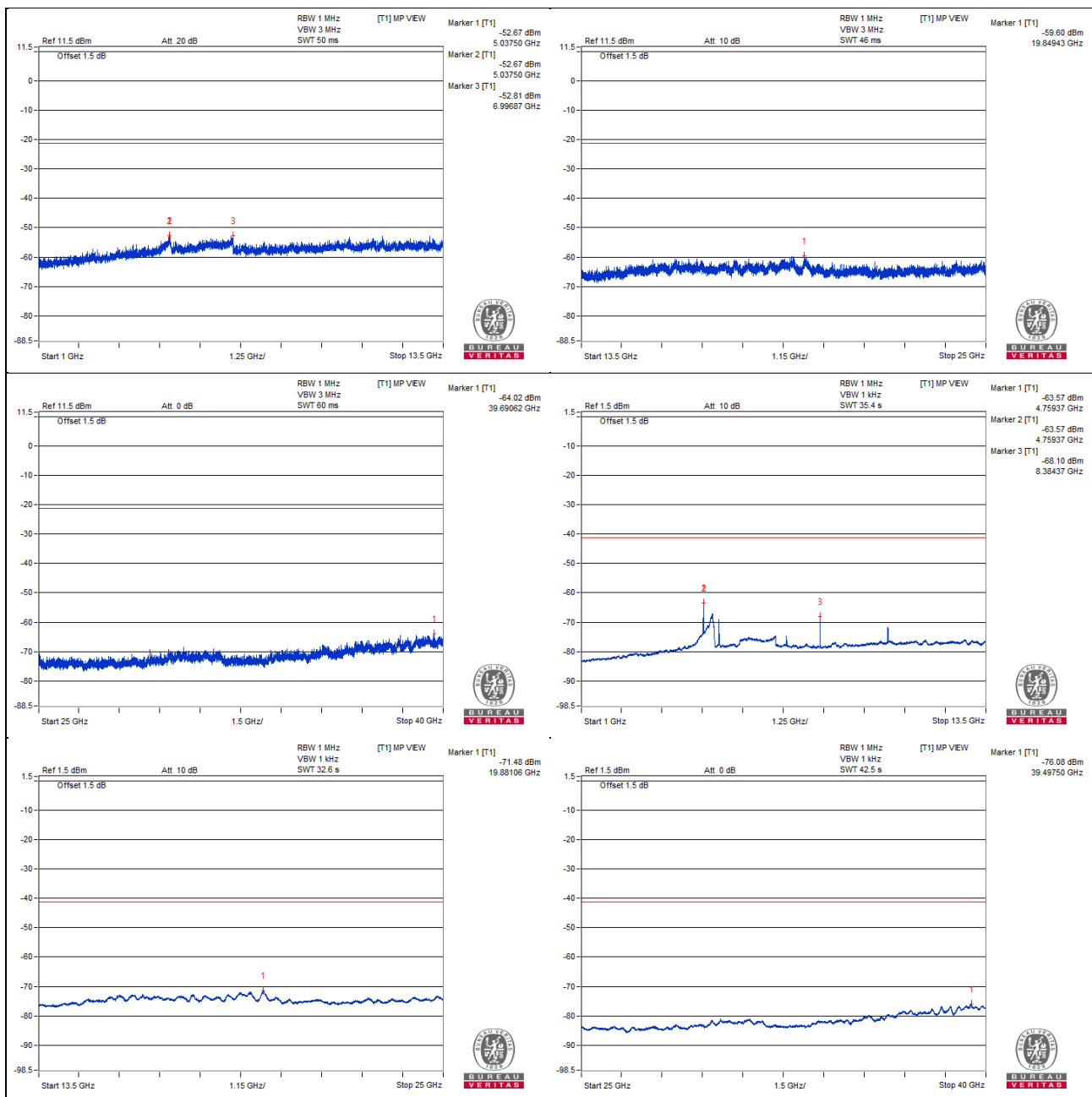
802.11a - Channel 48

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	5037.5 PK	48.89	74	-25.11	-52.67	6.3	-46.37
2	5037.5 PK	48.89	74	-25.11	-52.67	6.3	-46.37
3	6996.87 PK	48.75	68.2	-19.45	-52.81	6.3	-46.51
4	19849.43 PK	41.96	74	-32.04	-59.6	6.3	-53.3
5	39690.62 PK	37.54	74	-36.46	-64.02	6.3	-57.72
6	4759.37 AV	37.99	54	-16.01	-63.57	6.3	-57.27
7	4759.37 AV	37.99	54	-16.01	-63.57	6.3	-57.27
8	8384.37 AV	33.46	54	-20.54	-68.1	6.3	-61.8
9	19881.06 AV	30.08	54	-23.92	-71.48	6.3	-65.18
10	39497.5 AV	25.48	54	-28.52	-76.08	6.3	-69.78

Note :

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

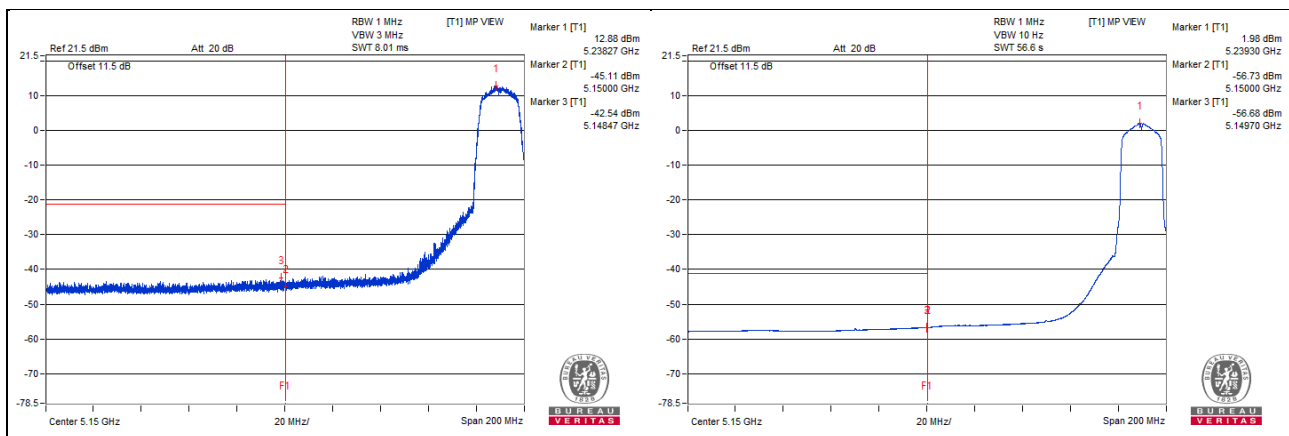


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5238.27 PK	113.74	*		12.88	5.6	18.48
2	5150 PK	55.75	74	-18.25	-45.11	5.6	-39.51
3	5148.47 PK	58.32	74	-15.68	-42.54	5.6	-36.94
4	5239.3 AV	102.84	*		1.98	5.6	7.58
5	5150 AV	44.13	54	-9.87	-56.73	5.6	-51.13
6	5149.7 AV	44.18	54	-9.82	-56.68	5.6	-51.08

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.



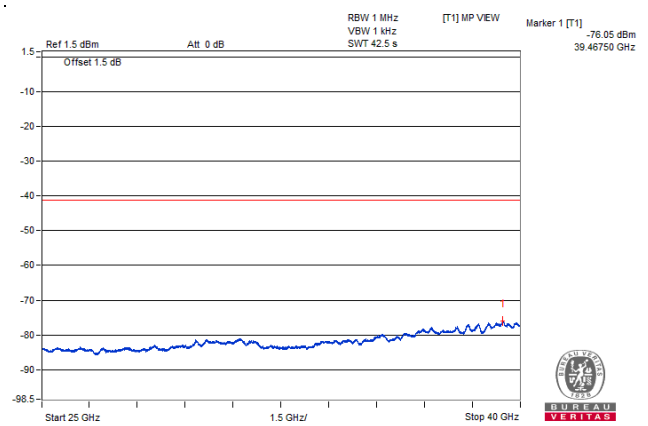
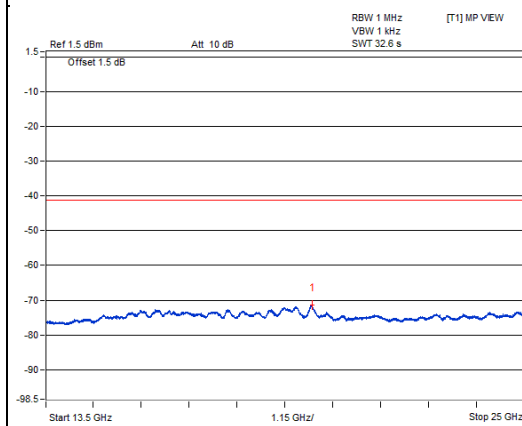
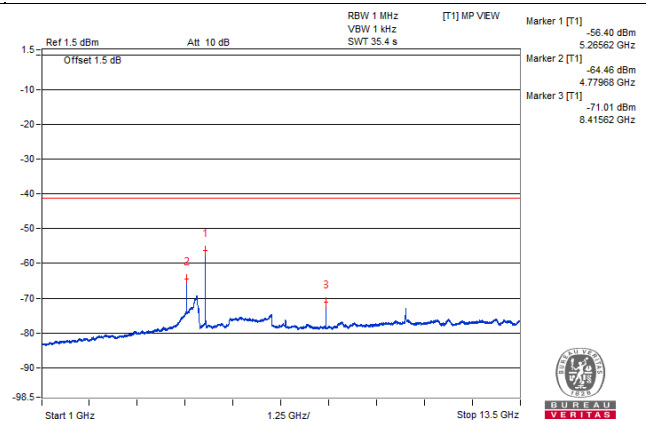
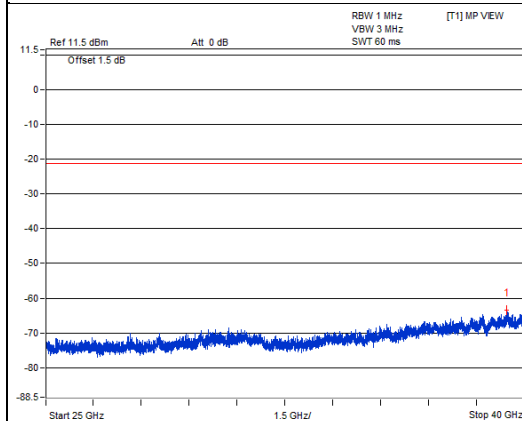
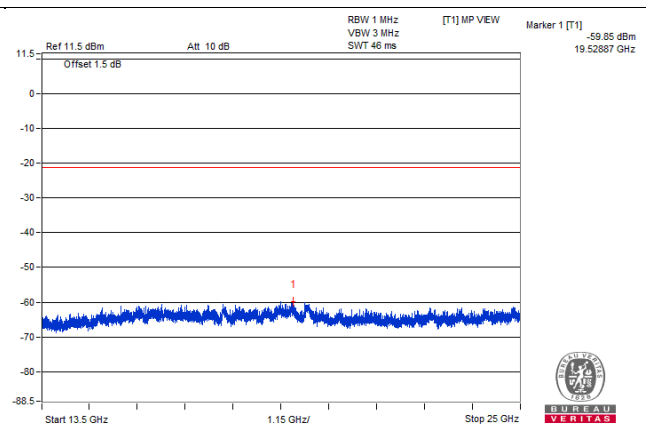
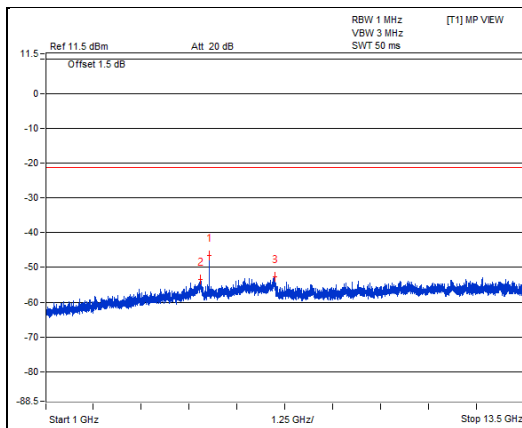
802.11a - Channel 52

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	5265.62 PK	54.91	*		-46.65	6.3	-40.35
2	5023.43 PK	48.03	74	-25.97	-53.53	6.3	-47.23
3	6978.12 PK	48.74	68.2	-19.46	-52.82	6.3	-46.52
4	19528.87 PK	41.71	74	-32.29	-59.85	6.3	-53.55
5	39458.12 PK	38.03	74	-35.97	-63.53	6.3	-57.23
6	5265.62 AV	45.16	*		-56.4	6.3	-50.1
7	4779.68 AV	37.1	54	-16.9	-64.46	6.3	-58.16
8	8415.62 AV	30.55	54	-23.45	-71.01	6.3	-64.71
9	19898.31 AV	30.16	54	-23.84	-71.4	6.3	-65.1
10	39467.5 AV	25.51	54	-28.49	-76.05	6.3	-69.75

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.

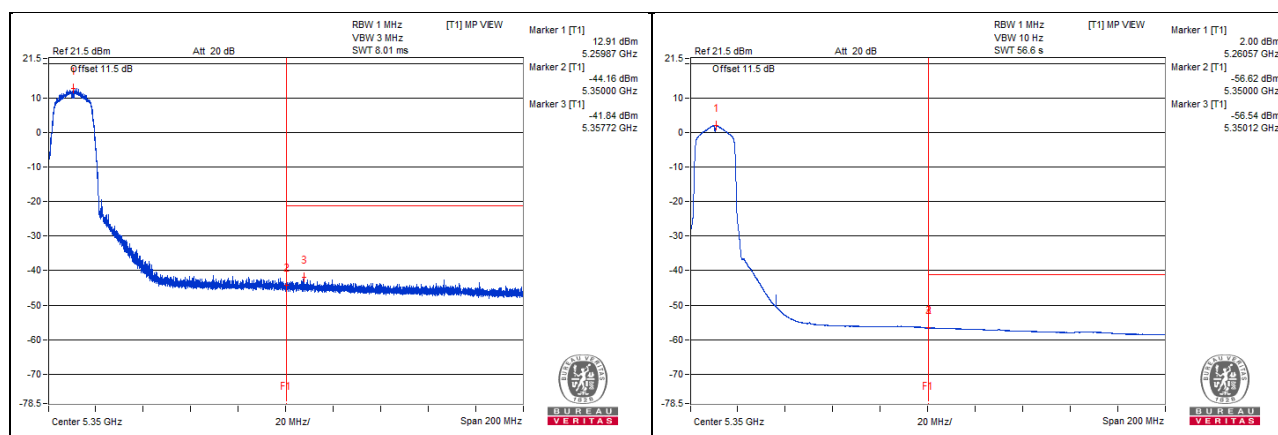


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5259.87 PK	114.14	*		12.91	5.97	18.88
2	5350 PK	57.07	74	-16.93	-44.16	5.97	-38.19
3	5357.72 PK	59.39	74	-14.61	-41.84	5.97	-35.87
4	5260.57 AV	103.23	*		2	5.97	7.97
5	5350 AV	44.61	54	-9.39	-56.62	5.97	-50.65
6	5350.12 AV	44.69	54	-9.31	-56.54	5.97	-50.57

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.



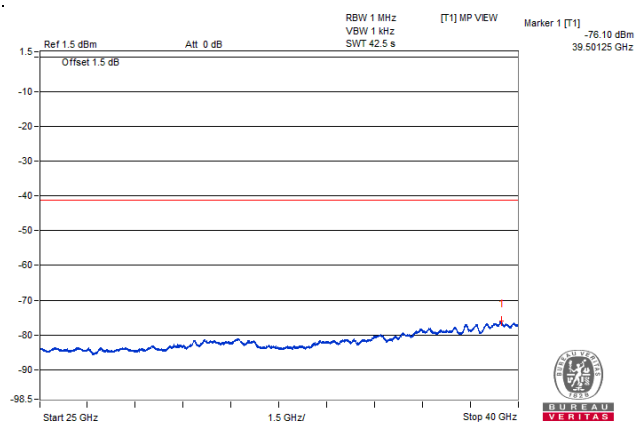
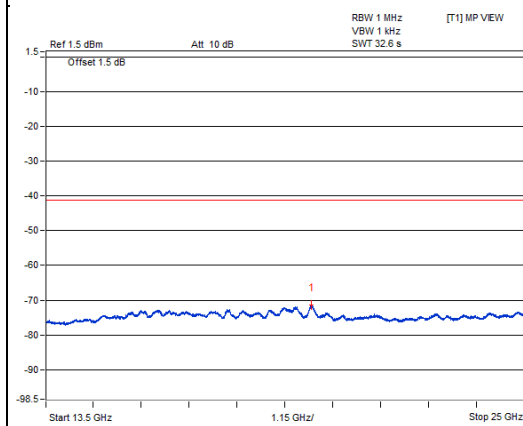
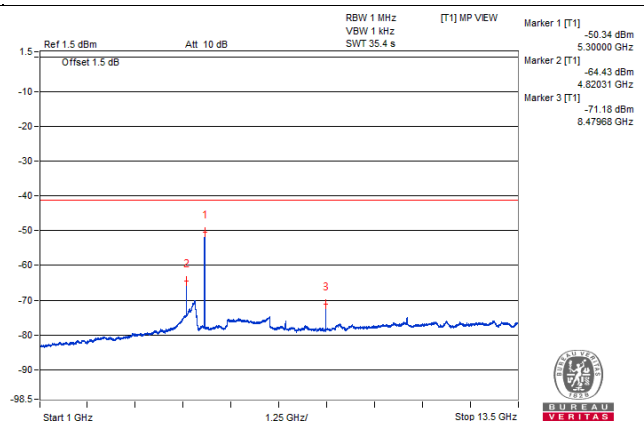
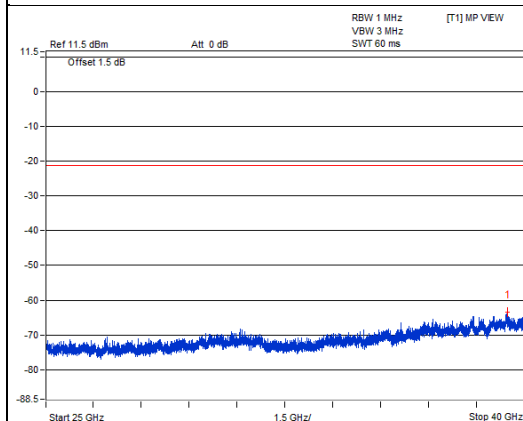
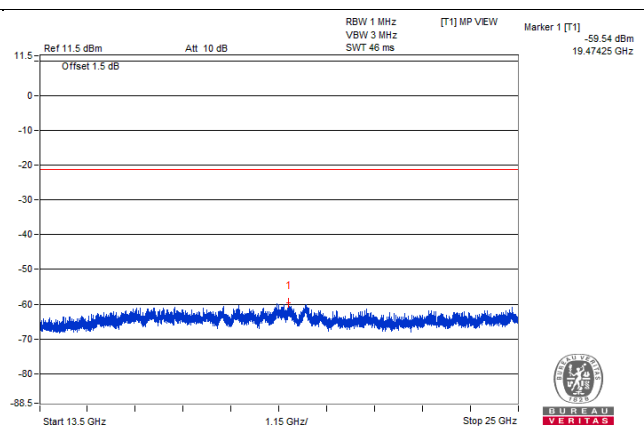
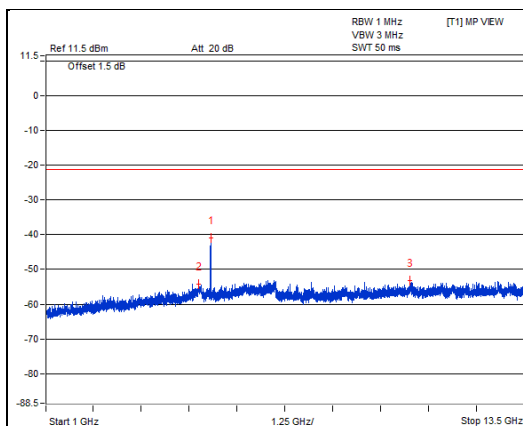
802.11a - Channel 60

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	5301.56 PK	60.51	*		-41.05	6.3	-34.75
2	4975 PK	47.23	74	-26.77	-54.33	6.3	-48.03
3	10526.56 PK	48.44	68.2	-19.76	-53.12	6.3	-46.82
4	19474.25 PK	42.02	74	-31.98	-59.54	6.3	-53.24
5	39497.5 PK	38.25	74	-35.75	-63.31	6.3	-57.01
6	5300 AV	51.22	*		-50.34	6.3	-44.04
7	4820.31 AV	37.13	54	-16.87	-64.43	6.3	-58.13
8	8479.68 AV	30.38	54	-23.62	-71.18	6.3	-64.88
9	19879.62 AV	30.12	54	-23.88	-71.44	6.3	-65.14
10	39501.25 AV	25.46	54	-28.54	-76.1	6.3	-69.8

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.

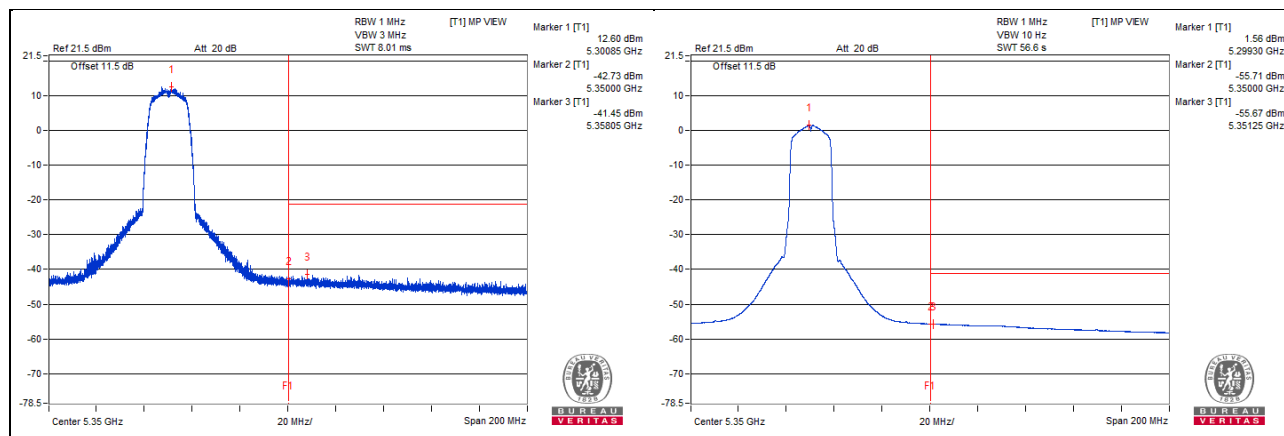


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5300.85 PK	113.83	*		12.6	5.97	18.57
2	5350 PK	58.5	74	-15.5	-42.73	5.97	-36.76
3	5358.05 PK	59.78	74	-14.22	-41.45	5.97	-35.48
4	5299.3 AV	102.79	*		1.56	5.97	7.53
5	5350 AV	45.52	54	-8.48	-55.71	5.97	-49.74
6	5351.25 AV	45.56	54	-8.44	-55.67	5.97	-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.



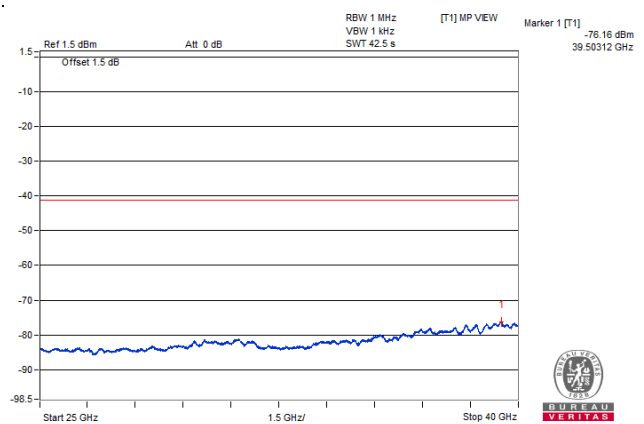
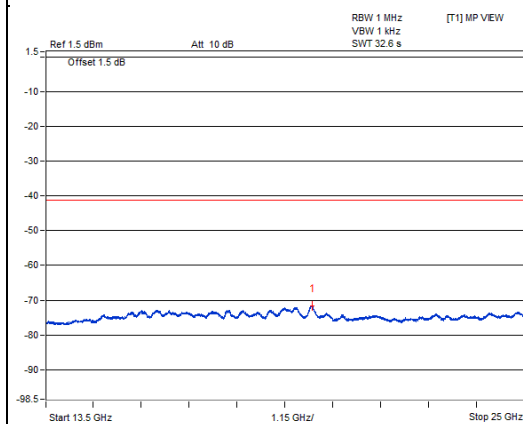
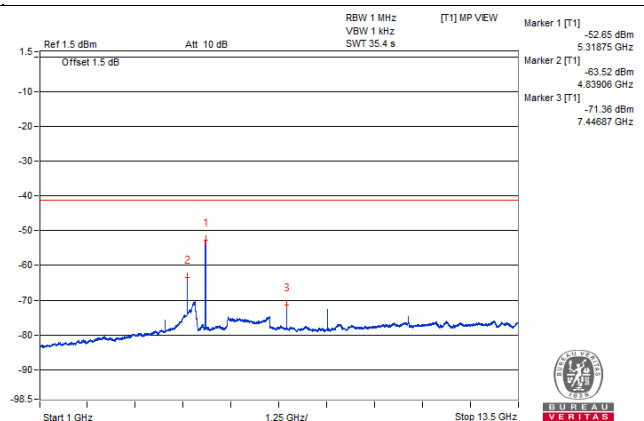
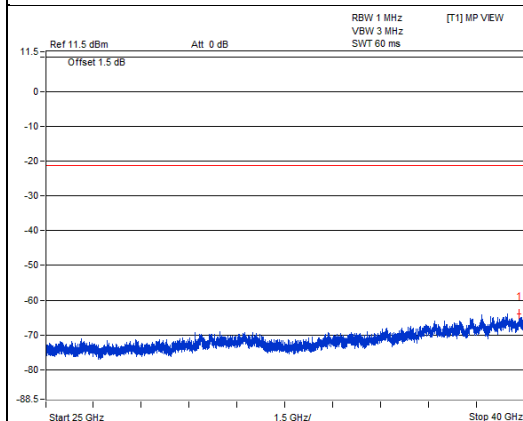
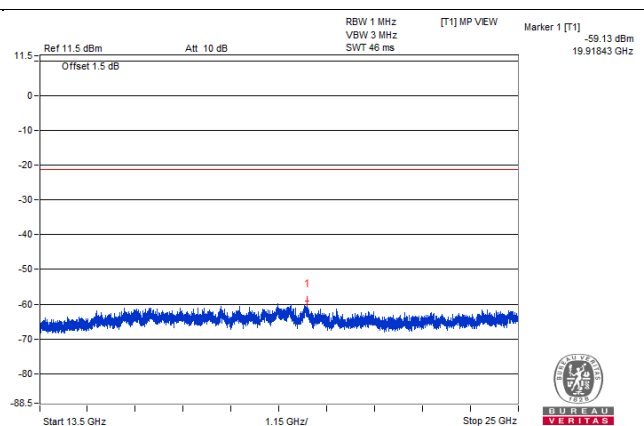
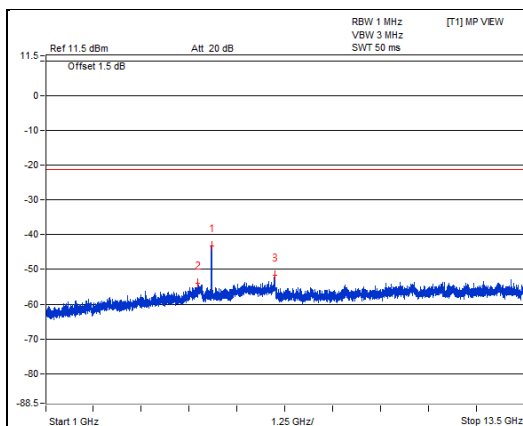
802.11a - Channel 64

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	5320.31 PK	58.39	*		-43.17	6.3	-36.87
2	4946.87 PK	47.5	74	-26.5	-54.06	6.3	-47.76
3	6982.81 PK	49.88	68.2	-18.32	-51.68	6.3	-45.38
4	19918.43 PK	42.43	74	-31.57	-59.13	6.3	-52.83
5	39868.75 PK	37.52	74	-36.48	-64.04	6.3	-57.74
6	5318.75 AV	48.91	*		-52.65	6.3	-46.35
7	4839.06 AV	38.04	54	-15.96	-63.52	6.3	-57.22
8	7446.87 AV	30.2	54	-23.8	-71.36	6.3	-65.06
9	19896.87 AV	30	54	-24	-71.56	6.3	-65.26
10	39503.12 AV	25.4	54	-28.6	-76.16	6.3	-69.86

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.

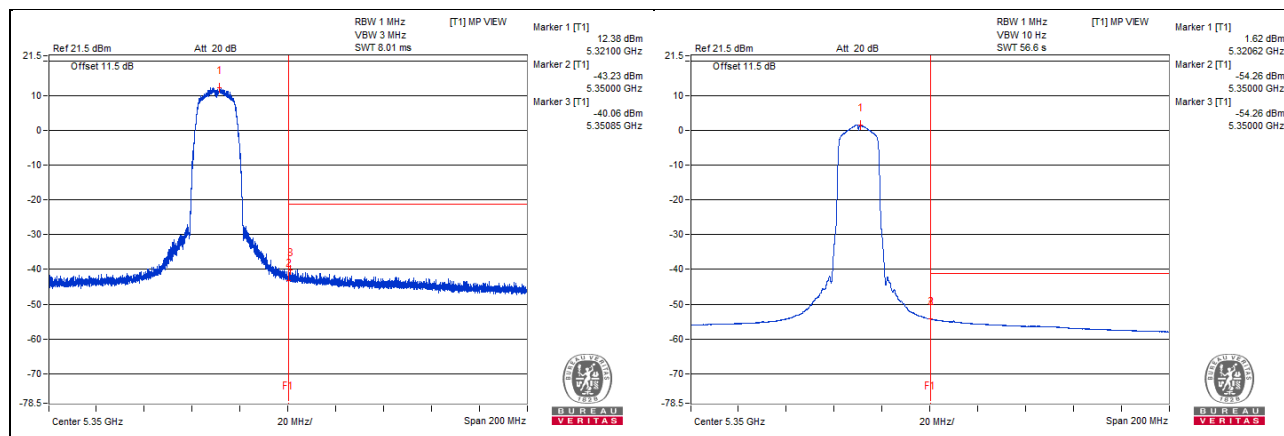


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5321 PK	113.61	*		12.38	5.97	18.35
2	5350 PK	58	74	-16	-43.23	5.97	-37.26
3	5350.85 PK	61.17	74	-12.83	-40.06	5.97	-34.09
4	5320.62 AV	102.85	*		1.62	5.97	7.59
5	5350 AV	46.97	54	-7.03	-54.26	5.97	-48.29
6	5350 AV	46.97	54	-7.03	-54.26	5.97	-48.29

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.



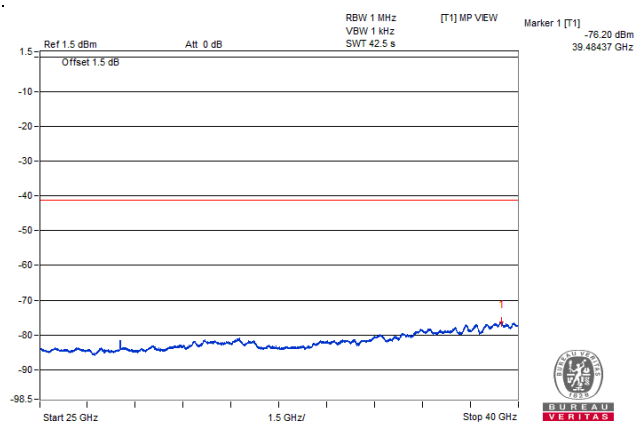
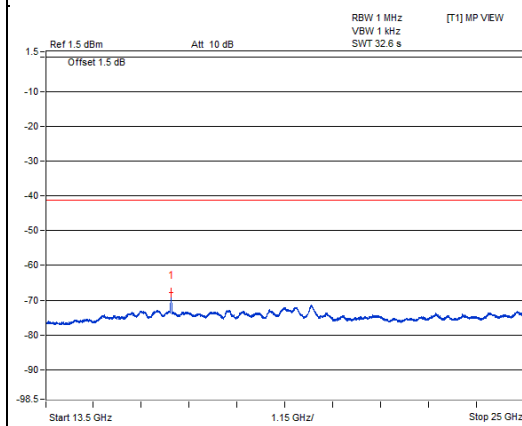
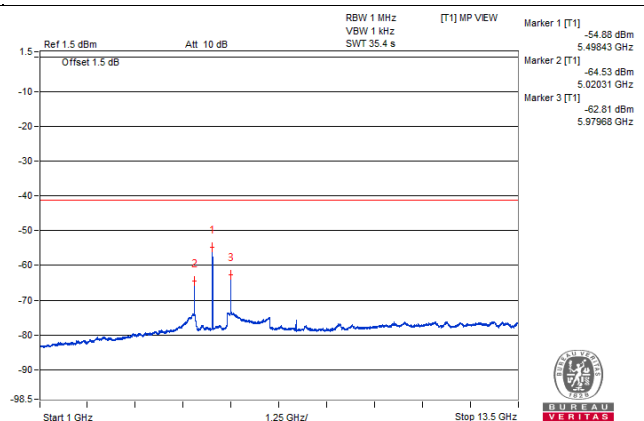
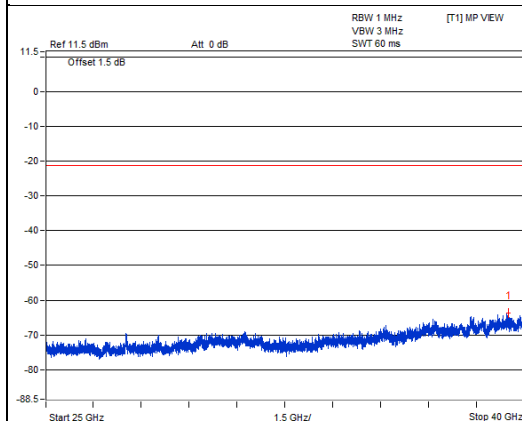
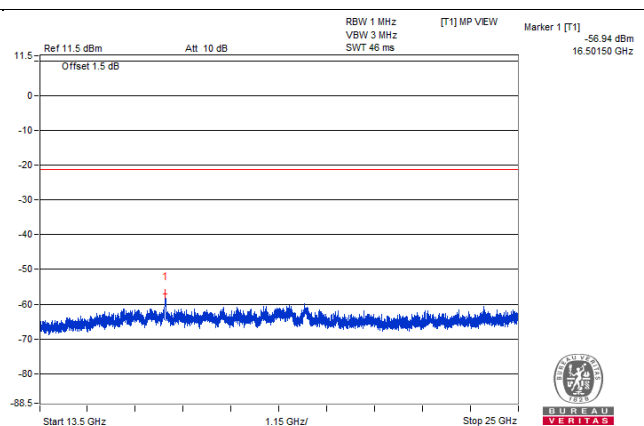
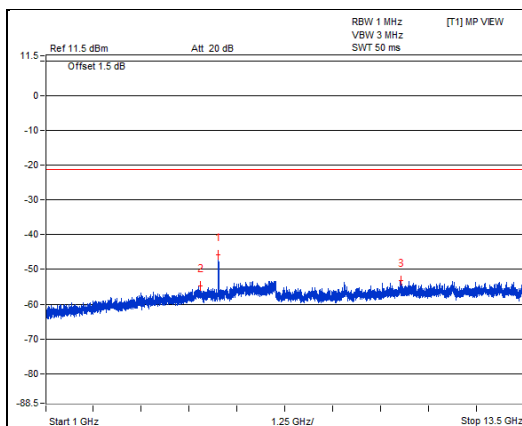
802.11a - Channel 100

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	55.77	*		-45.79	6.3	-39.49
2	5035.93 PK	46.81	74	-27.19	-54.75	6.3	-48.45
3	10292.18 PK	48.28	68.2	-19.92	-53.28	6.3	-46.98
4	16501.5 PK	44.62	68.2	-23.58	-56.94	6.3	-50.64
5	39512.5 PK	37.78	74	-36.22	-63.78	6.3	-57.48
6	5498.43 AV	46.68	*		-54.88	6.3	-48.58
7	5020.31 AV	37.03	54	-16.97	-64.53	6.3	-58.23
8	5979.68 AV	38.75	#		-62.81	6.3	-56.51
9	16498.62 AV	33.73	#		-67.83	6.3	-61.53
10	39484.37 AV	25.36	54	-28.64	-76.2	6.3	-69.9

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.

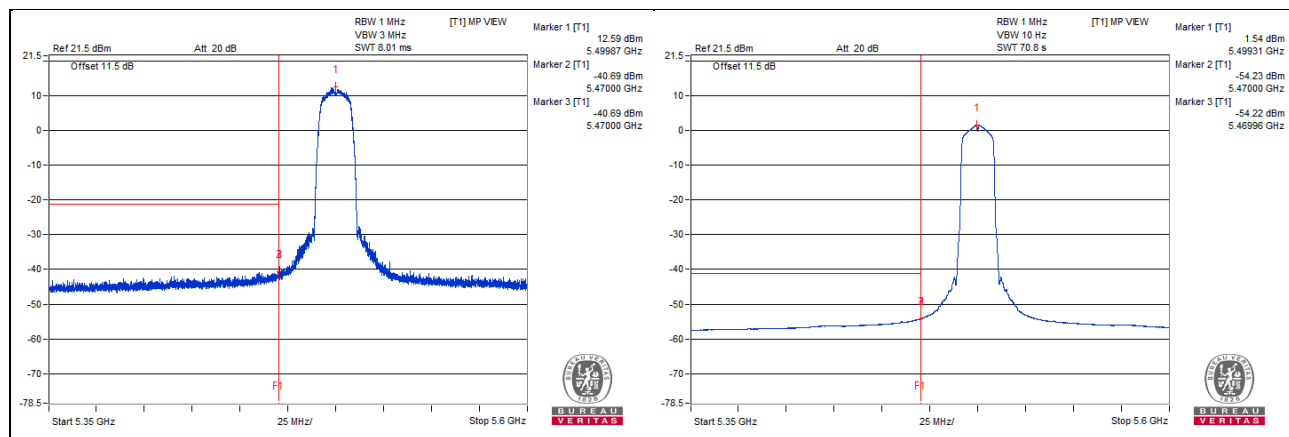


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5499.87 PK	113.78	*		12.59	5.93	18.52
2	5470 PK	60.5	68.2	-7.7	-40.69	5.93	-34.76
3	5470 PK	60.5	68.2	-7.7	-40.69	5.93	-34.76
4	5499.31 AV	102.73	*		1.54	5.93	7.47
5	5470 AV	46.96	#		-54.23	5.93	-48.3
6	5469.96 AV	46.97	#		-54.22	5.93	-48.29

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.
3. # : Non-restricted frequency, no limit for average emission.



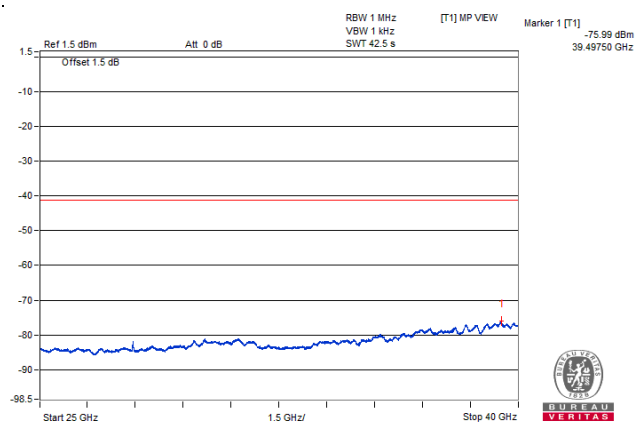
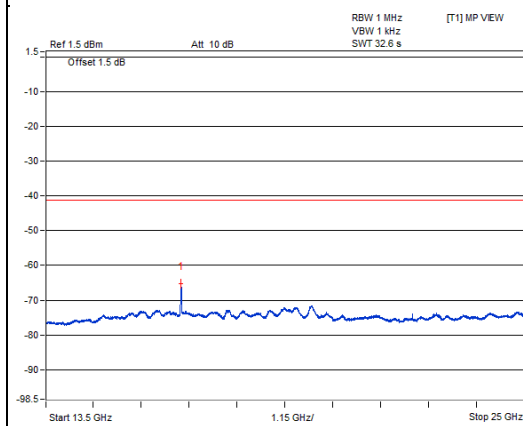
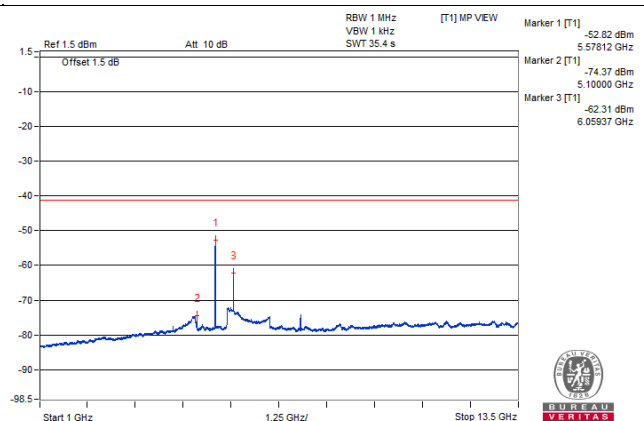
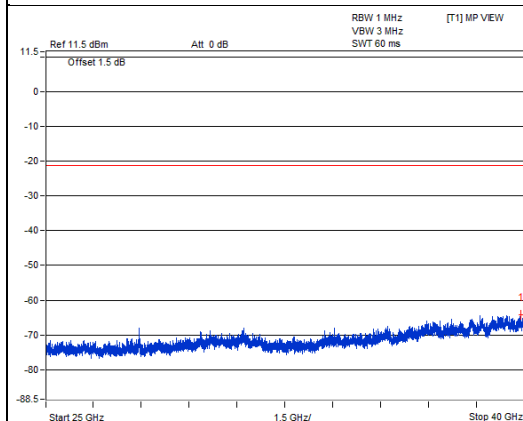
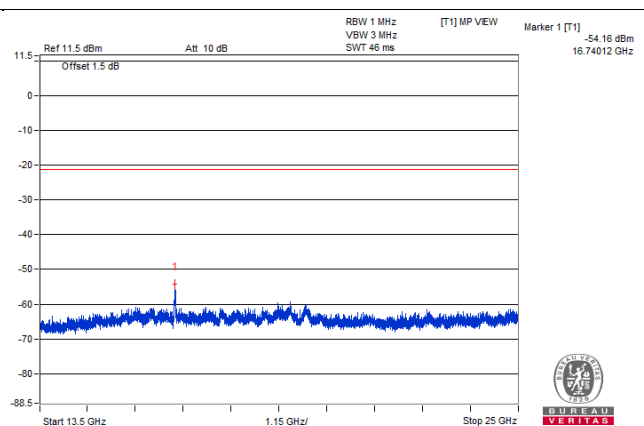
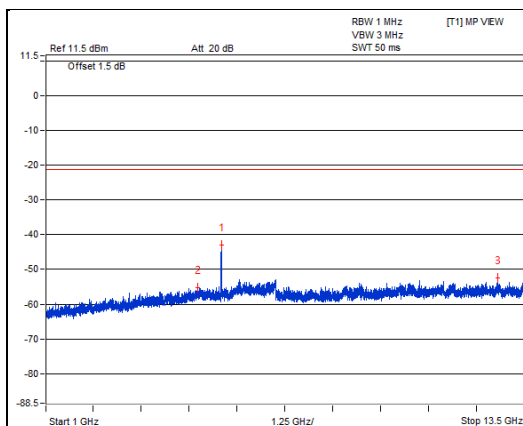
802.11a - Channel 116

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	5581.25 PK	58.67	*		-42.89	6.3	-36.59
2	4948.43 PK	46.31	74	-27.69	-55.25	6.3	-48.95
3	12814.06 PK	49.01	68.2	-19.19	-52.55	6.3	-46.25
4	16740.12 PK	47.4	68.2	-20.8	-54.16	6.3	-47.86
5	39917.5 PK	37.3	74	-36.7	-64.26	6.3	-57.96
6	5578.12 AV	48.74	*		-52.82	6.3	-46.52
7	5100 AV	27.19	54	-26.81	-74.37	6.3	-68.07
8	6059.37 AV	39.25	#		-62.31	6.3	-56.01
9	16738.68 AV	36.35	#		-65.21	6.3	-58.91
10	39497.5 AV	25.57	54	-28.43	-75.99	6.3	-69.69

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.

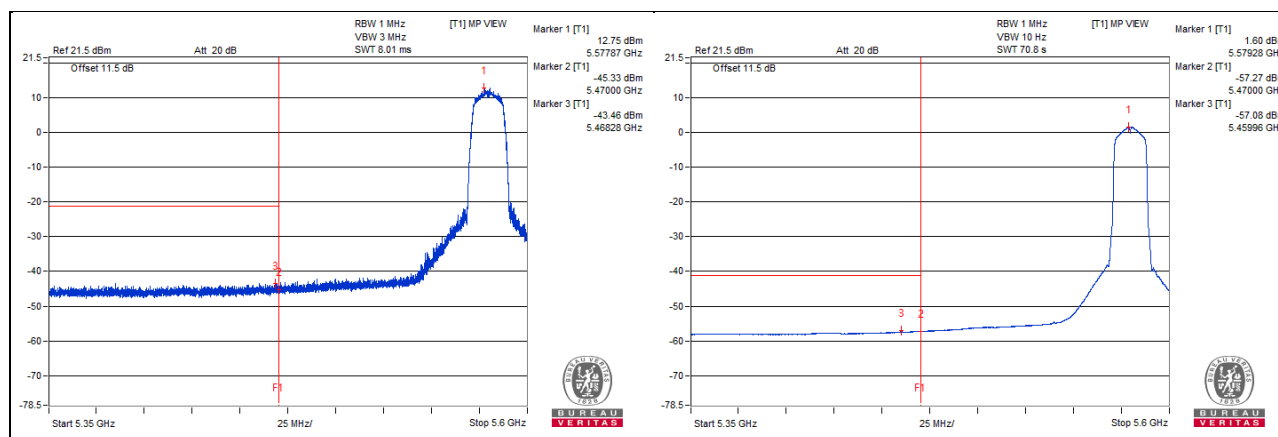


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5577.87 PK	113.94	*		12.75	5.93	18.68
2	5470 PK	55.86	68.2	-12.34	-45.33	5.93	-39.4
3	5468.28 PK	57.73	68.2	-10.47	-43.46	5.93	-37.53
4	5579.28 AV	102.79	*		1.6	5.93	7.53
5	5470 AV	43.92	#		-57.27	5.93	-51.34
6	5459.96 AV	44.11	54	-9.89	-57.08	5.93	-51.15

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.
3. # : Non-restricted frequency, no limit for average emission.



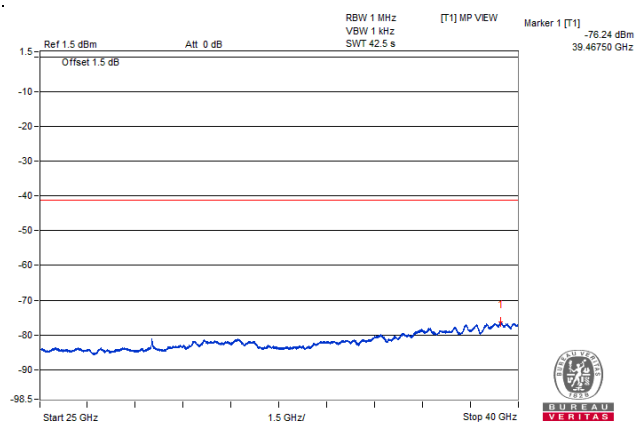
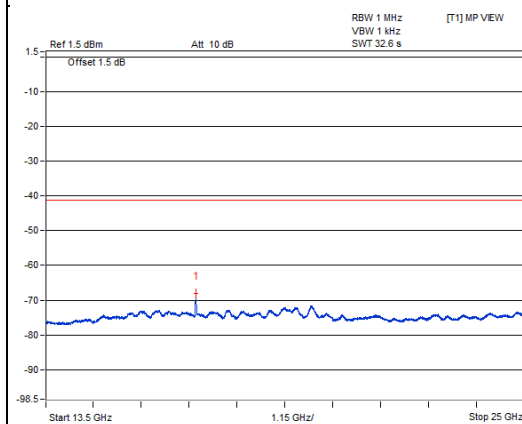
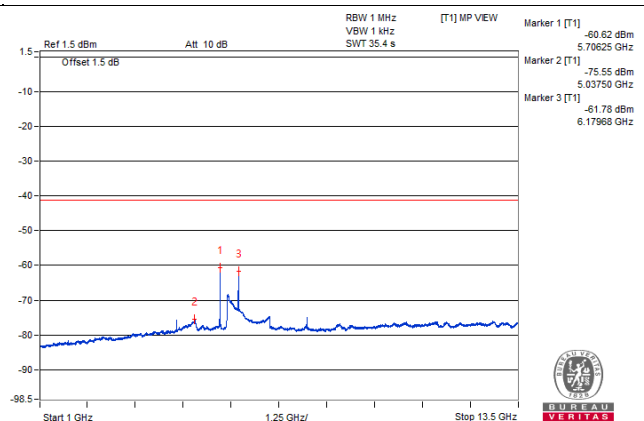
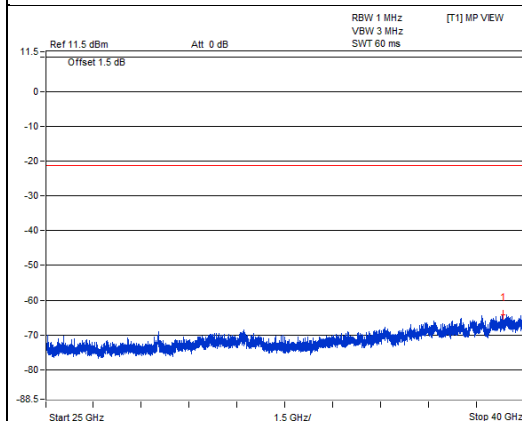
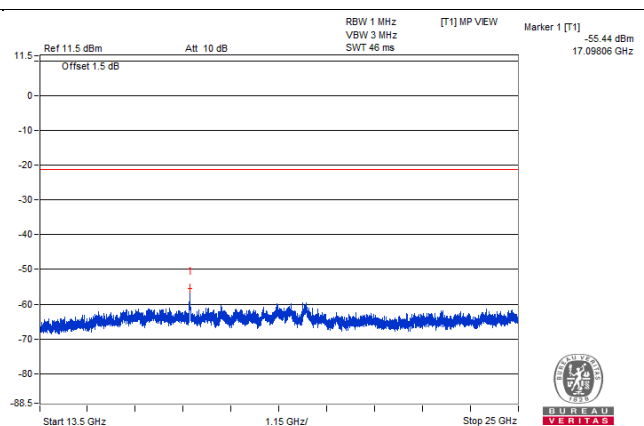
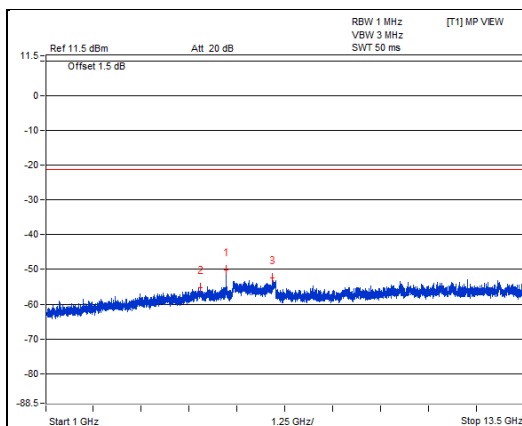
802.11a - Channel 140

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	5703.12 PK	51.49	*		-50.07	6.3	-43.77
2	5032.81 PK	46.23	74	-27.77	-55.33	6.3	-49.03
3	6914.06 PK	49.23	68.2	-18.97	-52.33	6.3	-46.03
4	17098.06 PK	46.12	68.2	-22.08	-55.44	6.3	-49.14
5	39353.12 PK	37.37	74	-36.63	-64.19	6.3	-57.89
6	5706.25 AV	40.94	*		-60.62	6.3	-54.32
7	5037.5 AV	26.01	54	-27.99	-75.55	6.3	-69.25
8	6179.68 AV	39.78	#		-61.78	6.3	-55.48
9	17098.06 AV	33.56	#		-68	6.3	-61.7
10	39467.5 AV	25.32	54	-28.68	-76.24	6.3	-69.94

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.

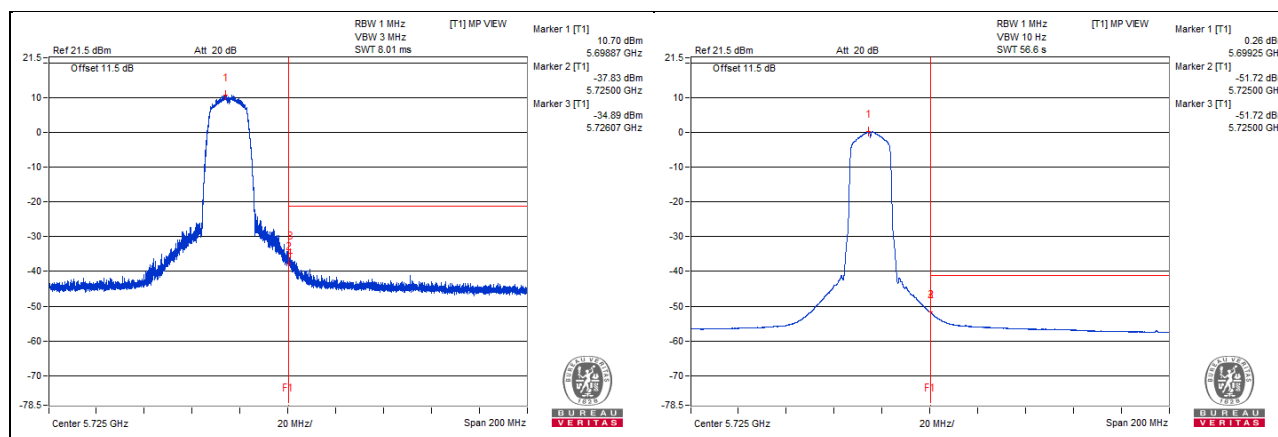


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5698.87 PK	111.89	*		10.7	5.93	16.63
2	5725 PK	63.36	68.2	-4.84	-37.83	5.93	-31.9
3	5726.07 PK	66.3	68.2	-1.9	-34.89	5.93	-28.96
4	5699.25 AV	101.45	*		0.26	5.93	6.19
5	5725 AV	49.47	#		-51.72	5.93	-45.79
6	5725 AV	49.47	#		-51.72	5.93	-45.79

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.



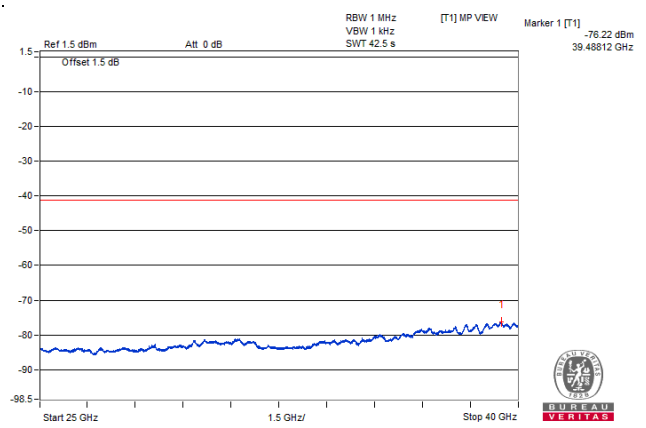
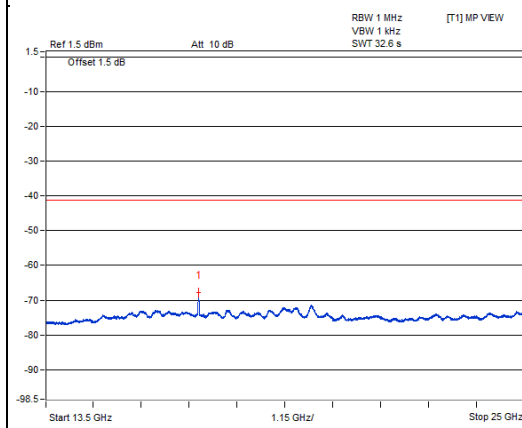
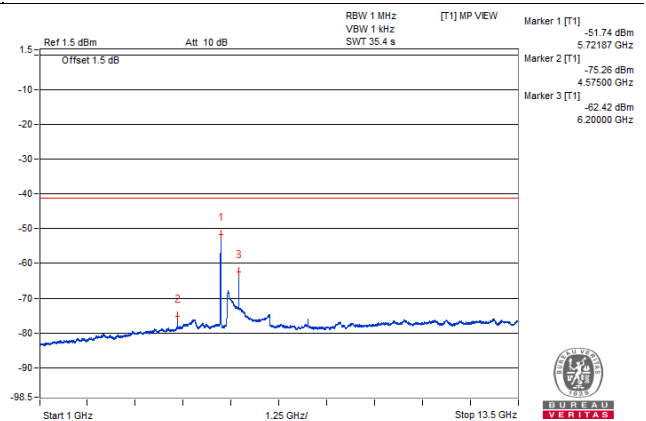
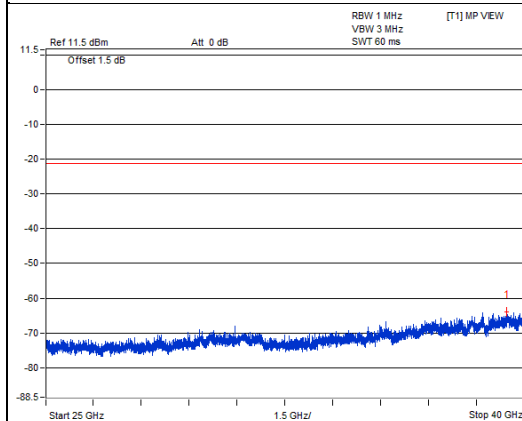
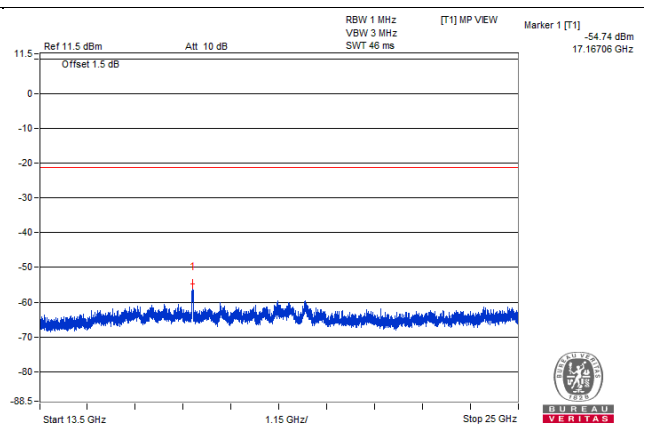
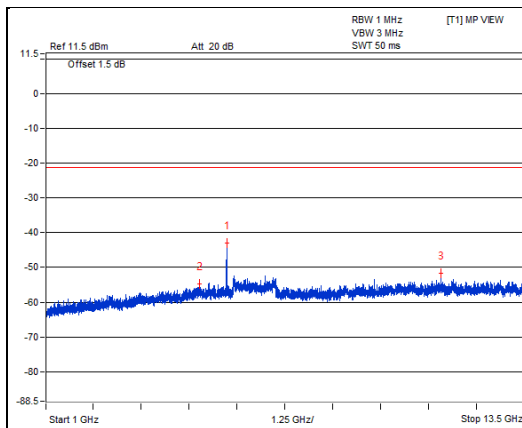
802.11a - Channel 144

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	5721.87 PK	58.55	*		-43.01	6.3	-36.71
2	5009.37 PK	46.92	74	-27.08	-54.64	6.3	-48.34
3	11326.56 PK	49.89	74	-24.11	-51.67	6.3	-45.37
4	17167.06 PK	46.82	68.2	-21.38	-54.74	6.3	-48.44
5	39473.12 PK	37.6	74	-36.4	-63.96	6.3	-57.66
6	5721.87 AV	49.82	*		-51.74	6.3	-45.44
7	4575 AV	26.3	54	-27.7	-75.26	6.3	-68.96
8	6200 AV	39.14	#		-62.42	6.3	-56.12
9	17161.31 AV	33.87	#		-67.69	6.3	-61.39
10	39488.12 AV	25.34	54	-28.66	-76.22	6.3	-69.92

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.
3. # : Non-restricted frequency, no limit for average emission.

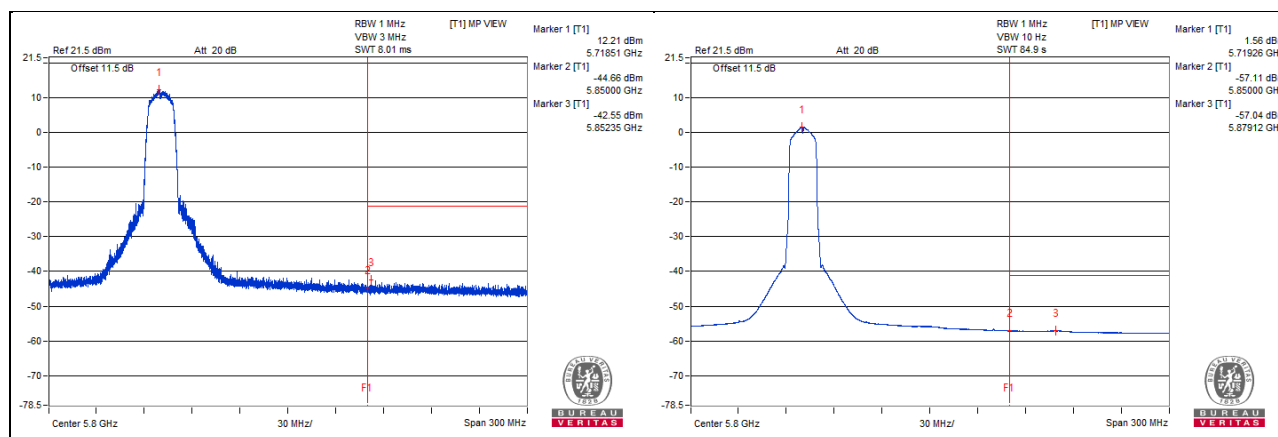


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5718.51 PK	113.77	*		12.21	6.3	18.51
2	5850 PK	56.9	68.2	-11.3	-44.66	6.3	-38.36
3	5852.35 PK	59.01	68.2	-9.19	-42.55	6.3	-36.25
4	5719.26 AV	103.12	*		1.56	6.3	7.86
5	5850 AV	44.45	#		-57.11	6.3	-50.81
6	5879.12 AV	44.52	#		-57.04	6.3	-50.74

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.
3. # : Non-restricted frequency, no limit for average emission.



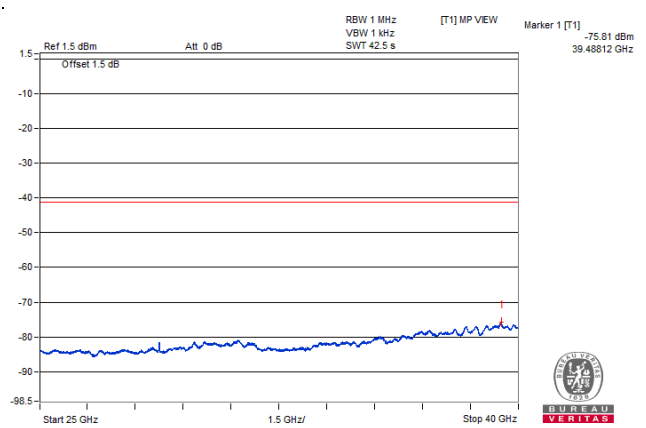
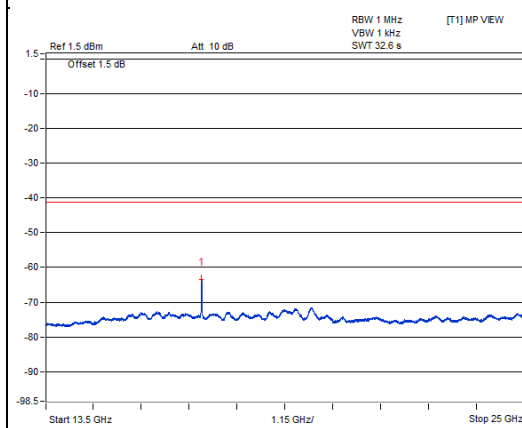
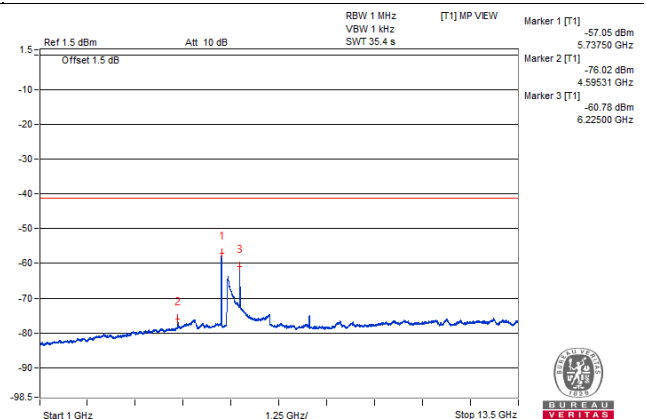
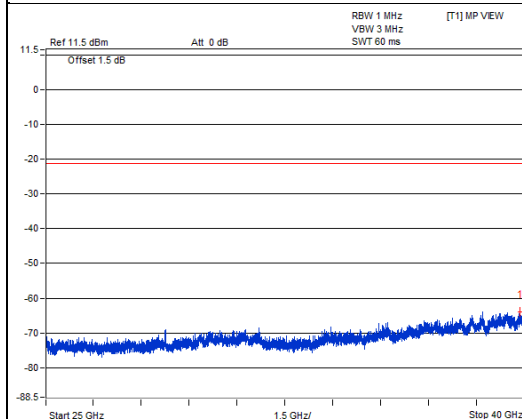
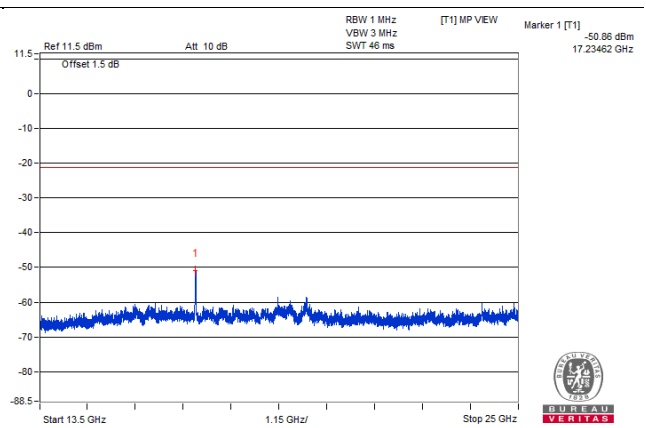
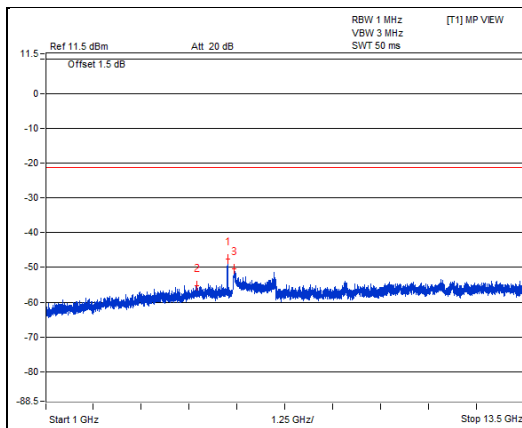
802.11a – Channel 149

Conducted spurious emission table

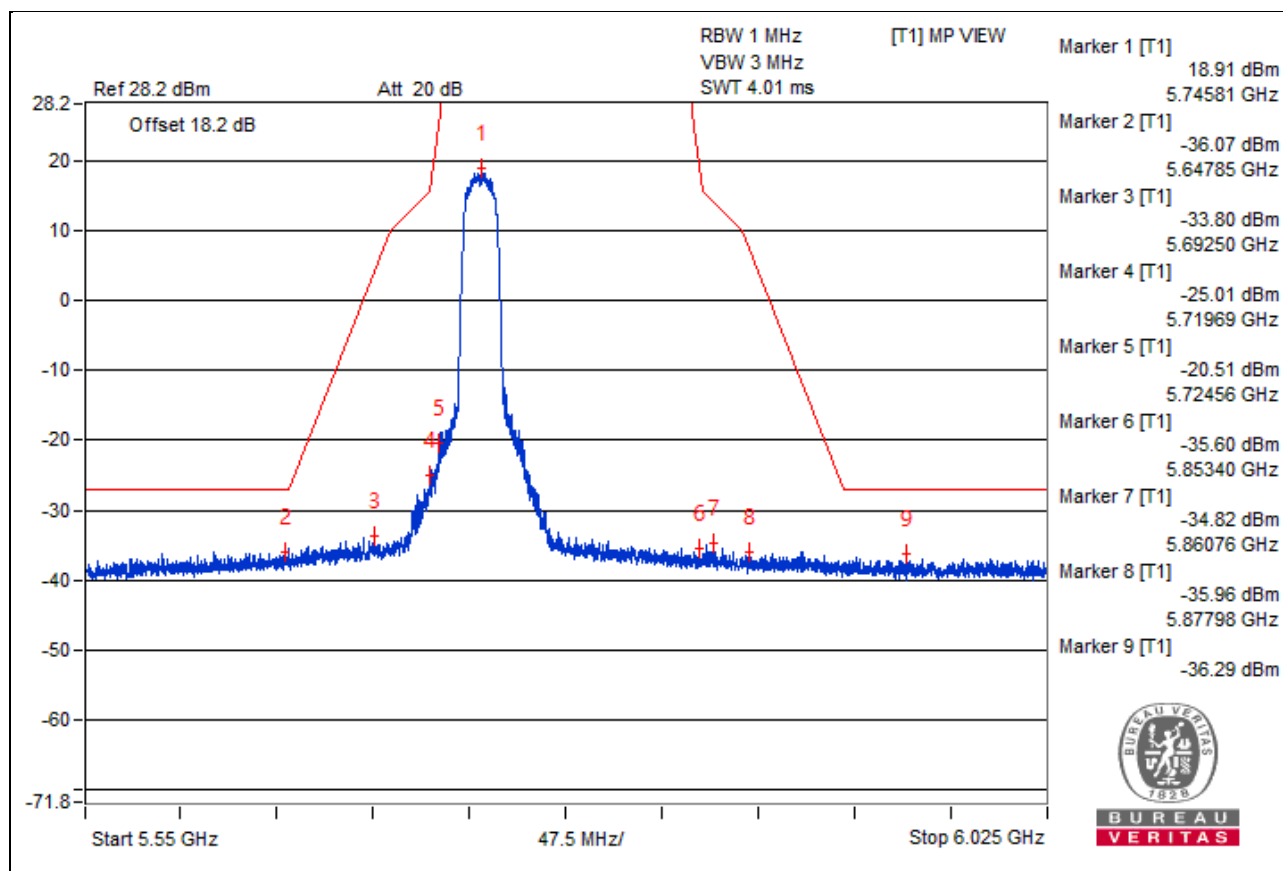
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5739.06 PK	53.94	*		-47.62	6.3	-41.32
2	4939.06 PK	46.31	74	-27.69	-55.25	6.3	-48.95
3	5914.06 PK	51.05	68.2	-17.15	-50.51	6.3	-44.21
4	17234.62 PK	50.7	68.2	-17.5	-50.86	6.3	-44.56
5	39874.37 PK	37.67	74	-36.33	-63.89	6.3	-57.59
6	5737.5 AV	44.51	*		-57.05	6.3	-50.75
7	4595.31 AV	25.54	54	-28.46	-76.02	6.3	-69.72
8	6225 AV	40.78	#		-60.78	6.3	-54.48
9	17236.06 AV	38.09	#		-63.47	6.3	-57.17
10	39488.12 AV	25.75	54	-28.25	-75.81	6.3	-69.51

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 (1.9 dB) and antenna gain (6.3 dBi).
2. The test results were EIRP.

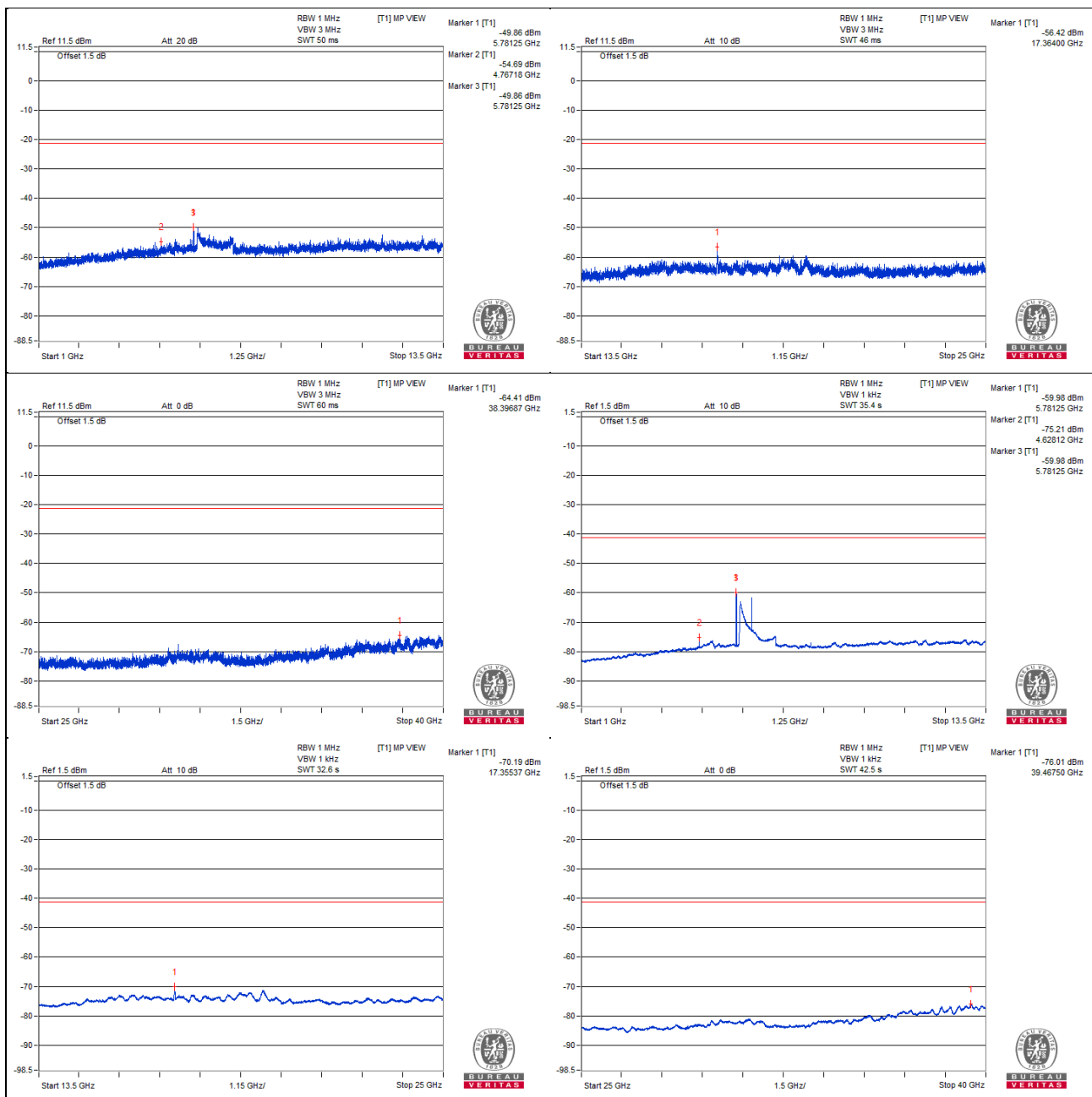
802.11a – Channel 157

Conducted spurious emission table

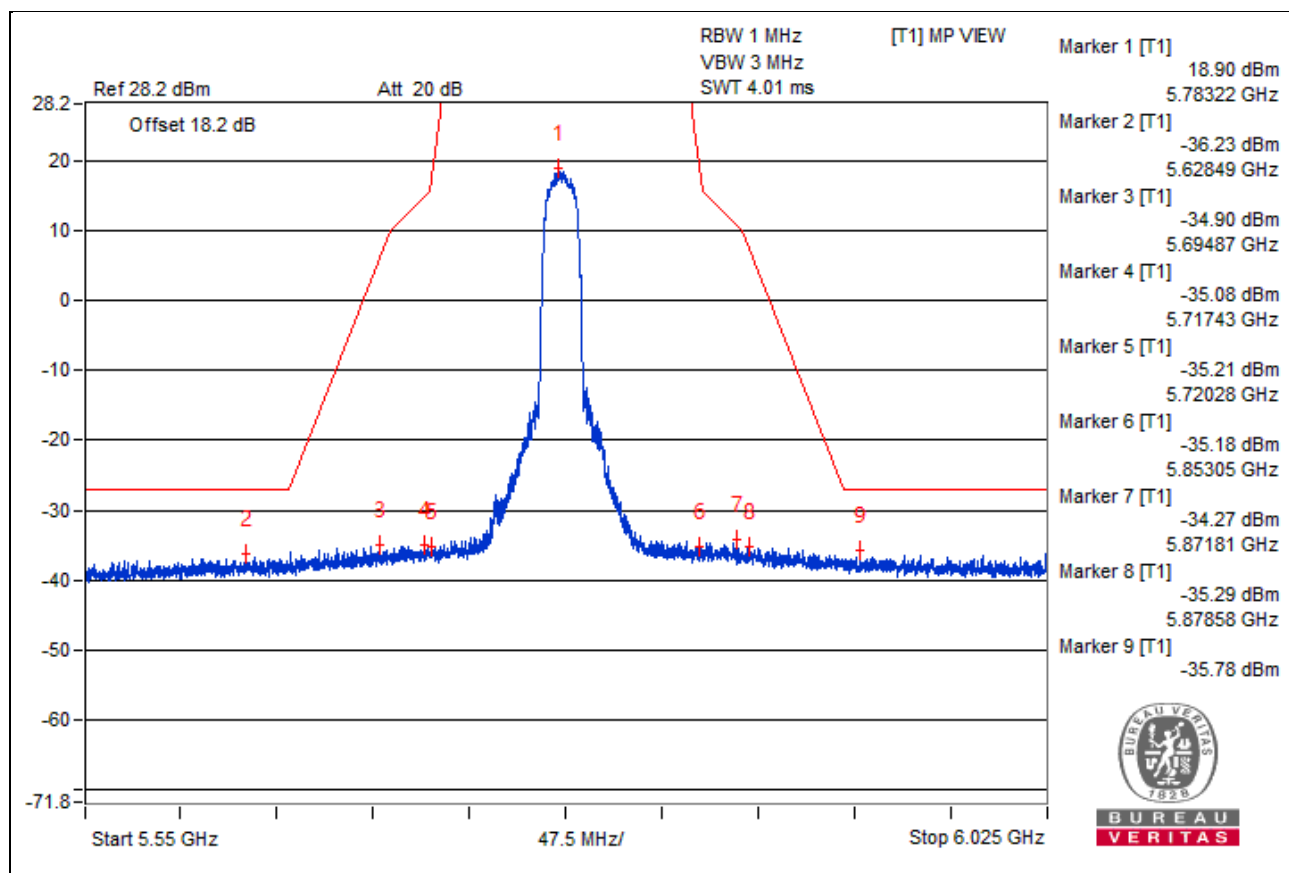
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5781.25 PK	51.7	*		-49.86	6.3	-43.56
2	4767.18 PK	46.87	74	-27.13	-54.69	6.3	-48.39
3	5781.25 PK	51.7	*		-49.86	6.3	-43.56
4	17364 PK	45.14	68.2	-23.06	-56.42	6.3	-50.12
5	38396.87 PK	37.15	68.2	-31.05	-64.41	6.3	-58.11
6	5781.25 AV	41.58	*		-59.98	6.3	-53.68
7	4628.12 AV	26.35	54	-27.65	-75.21	6.3	-68.91
8	5781.25 AV	41.58	*		-59.98	6.3	-53.68
9	17355.37 AV	31.37	#		-70.19	6.3	-63.89
10	39467.5 AV	25.55	54	-28.45	-76.01	6.3	-69.71

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



Note:

1. The offset including attenuator (10dB), cable loss (1.9 dB) and antenna gain (6.3 dBi).
2. The test results were EIRP.

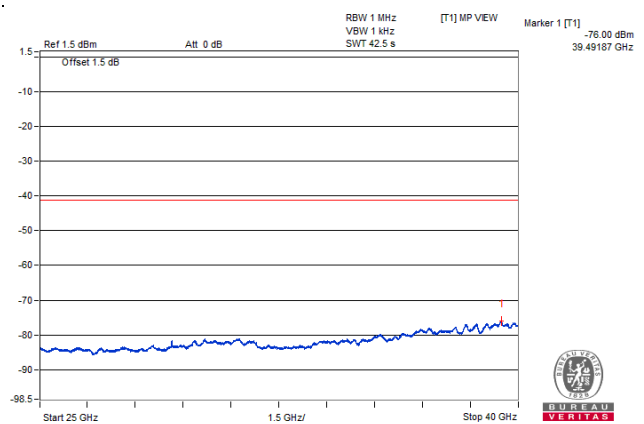
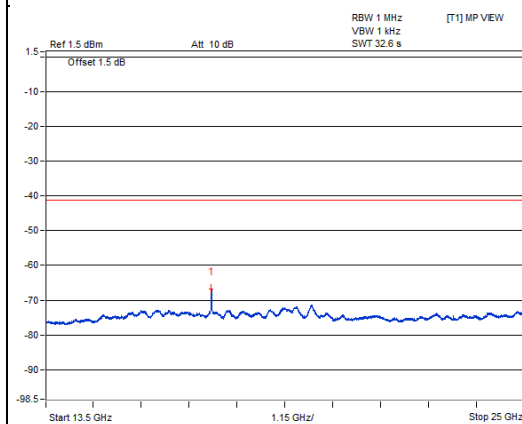
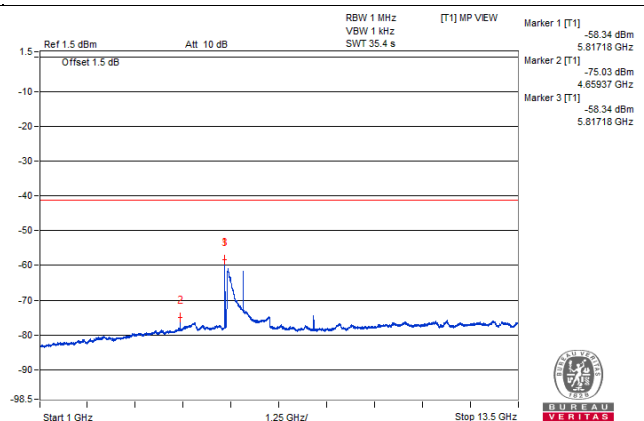
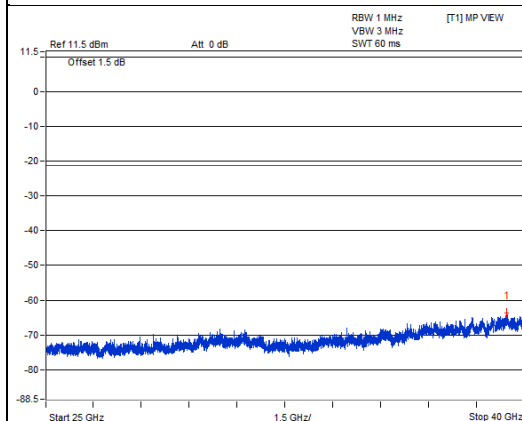
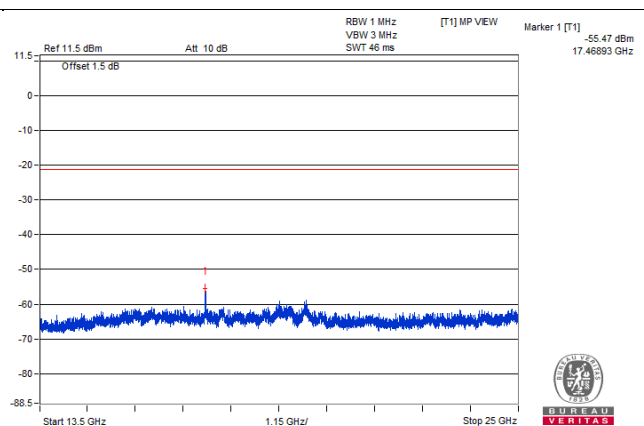
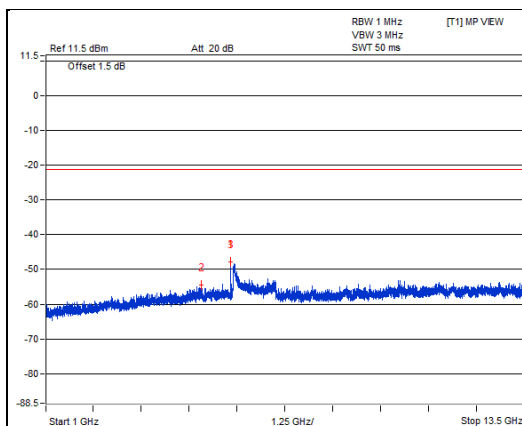
802.11a – Channel 165

Conducted spurious emission table

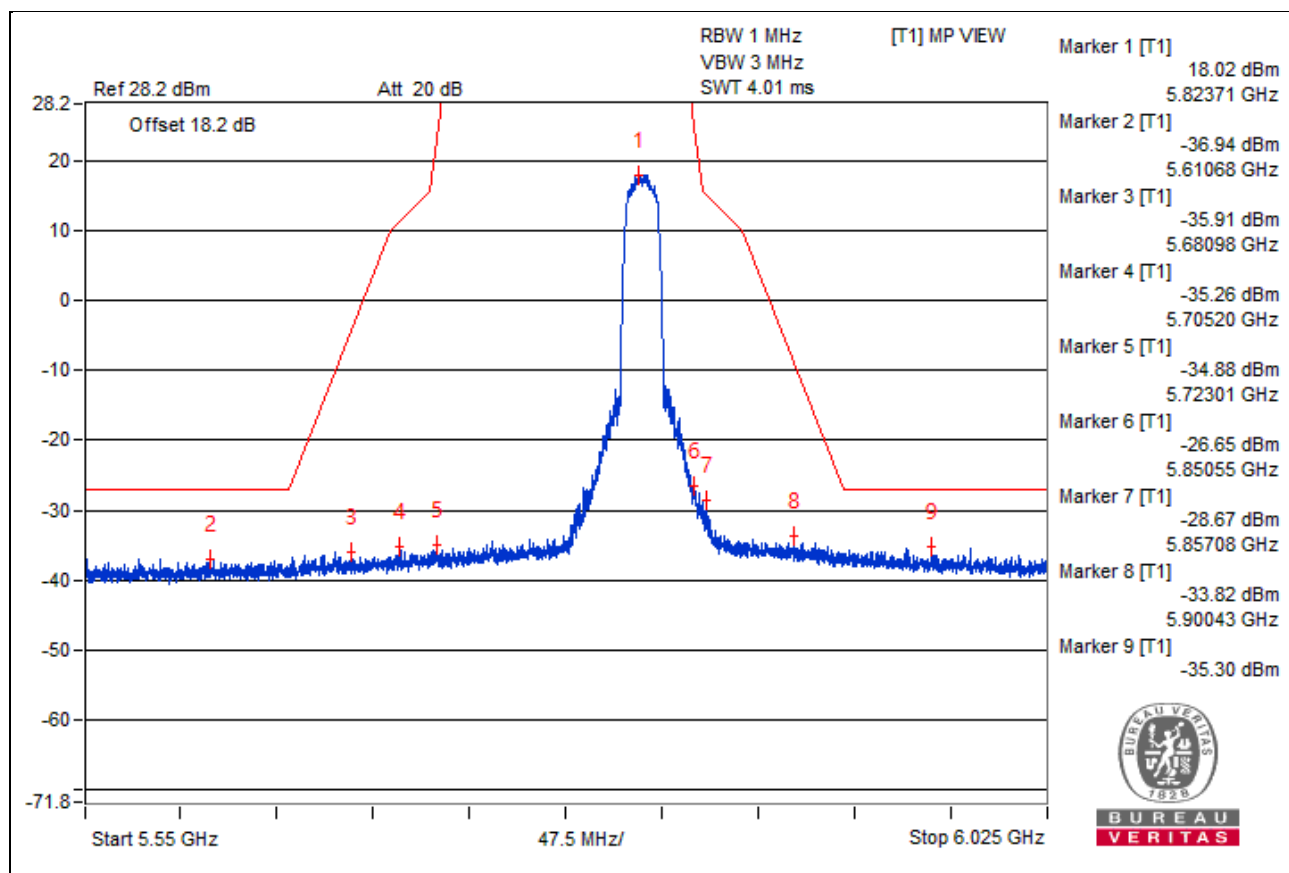
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5821.87 PK	53.6	*		-47.96	6.3	-41.66
2	5039.06 PK	46.99	74	-27.01	-54.57	6.3	-48.27
3	5821.87 PK	53.6	*		-47.96	6.3	-41.66
4	17468.93 PK	46.09	68.2	-22.11	-55.47	6.3	-49.17
5	39475 PK	37.76	74	-36.24	-63.8	6.3	-57.5
6	5817.18 AV	43.22	*		-58.34	6.3	-52.04
7	4659.37 AV	26.53	54	-27.47	-75.03	6.3	-68.73
8	5817.18 AV	43.22	*		-58.34	6.3	-52.04
9	17471.81 AV	34.83	#		-66.73	6.3	-60.43
10	39491.87 AV	25.56	54	-28.44	-76	6.3	-69.7

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.



Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.9 dB) and antenna gain (6.3 dBi).
2. The test results were EIRP.

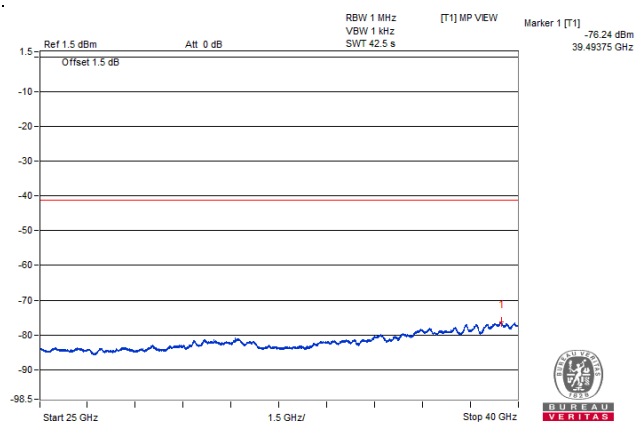
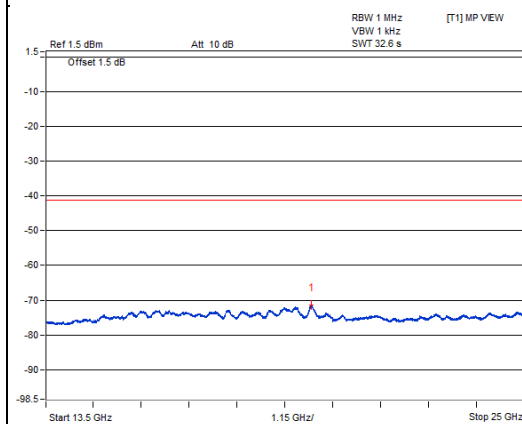
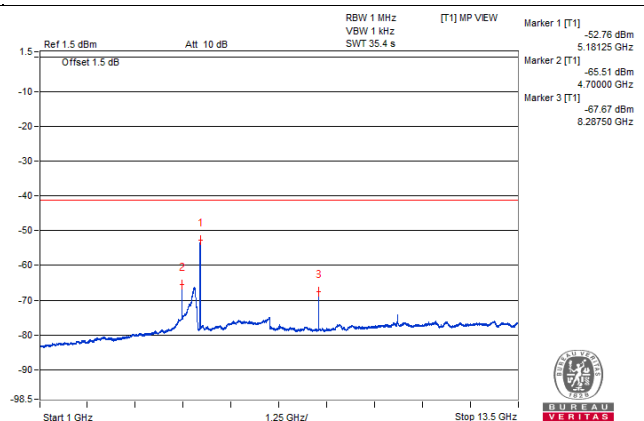
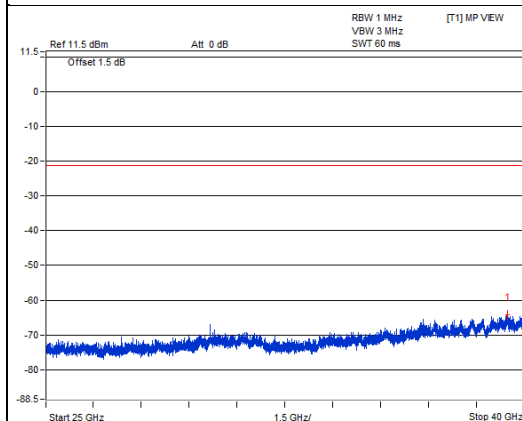
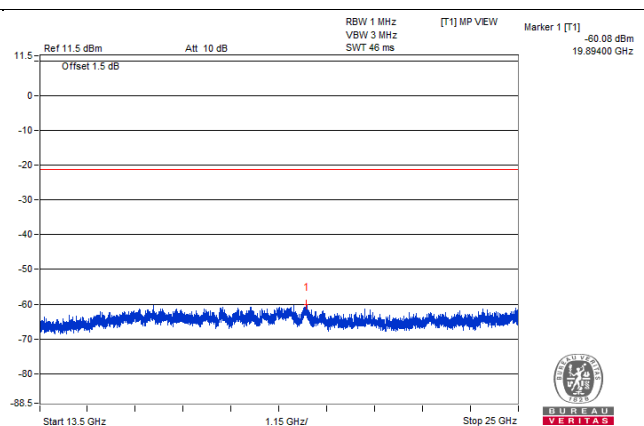
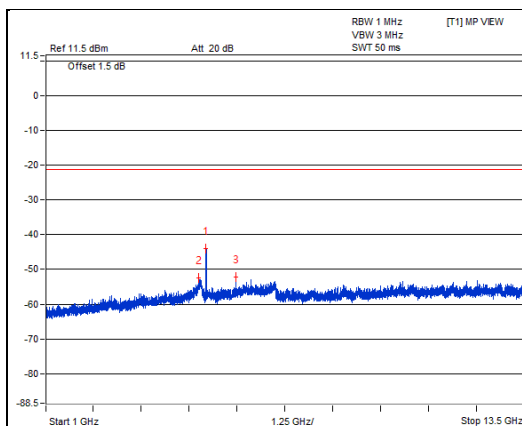
802.11ac (VHT20) - Channel 36

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	57.67	*		-43.89	6.3	-37.59
2	4975 PK	49.09	74	-24.91	-52.47	6.3	-46.17
3	5967.18 PK	49.35	68.2	-18.85	-52.21	6.3	-45.91
4	19894 PK	41.48	74	-32.52	-60.08	6.3	-53.78
5	39490 PK	37.31	74	-36.69	-64.25	6.3	-57.95
6	5181.25 AV	48.8	*		-52.76	6.3	-46.46
7	4700 AV	36.05	54	-17.95	-65.51	6.3	-59.21
8	8287.5 AV	33.89	54	-20.11	-67.67	6.3	-61.37
9	19872.43 AV	30.16	54	-23.84	-71.4	6.3	-65.1
10	39493.75 AV	25.32	54	-28.68	-76.24	6.3	-69.94

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.

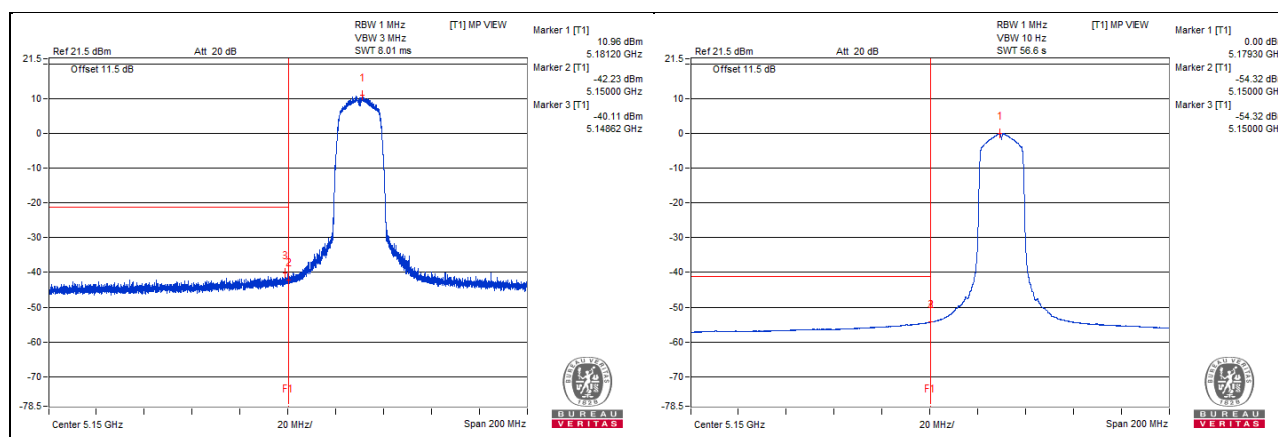


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5181.2 PK	111.82	*		10.96	5.6	16.56
2	5150 PK	58.63	74	-15.37	-42.23	5.6	-36.63
3	5148.62 PK	60.75	74	-13.25	-40.11	5.6	-34.51
4	5179.3 AV	100.86	*		0	5.6	5.6
5	5150 AV	46.54	54	-7.46	-54.32	5.6	-48.72
6	5150 AV	46.54	54	-7.46	-54.32	5.6	-48.72

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.



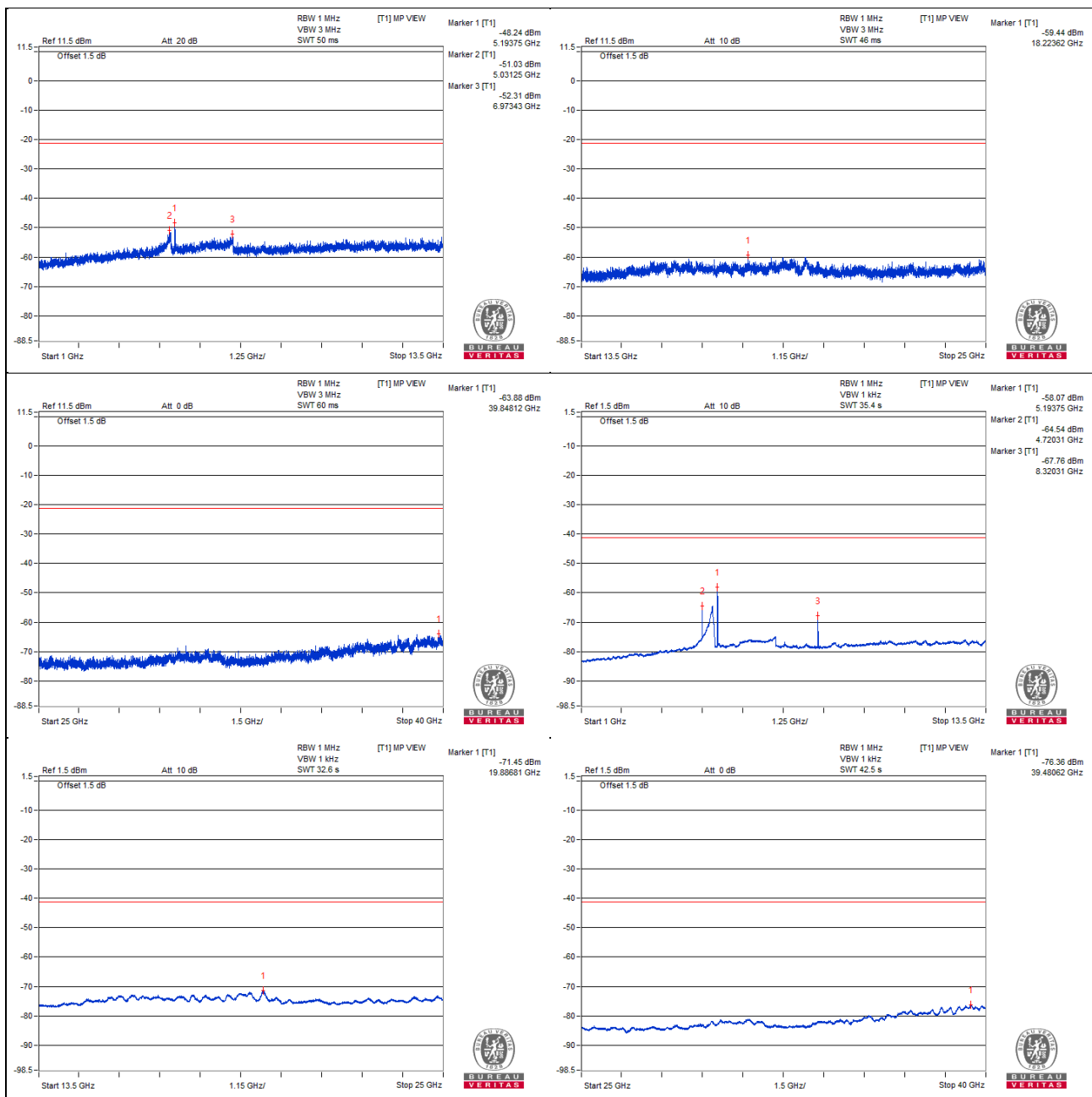
802.11ac (VHT20) - Channel 40

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	5193.75 PK	53.32	*		-48.24	6.3	-41.94
2	5031.25 PK	50.53	74	-23.47	-51.03	6.3	-44.73
3	6973.43 PK	49.25	68.2	-18.95	-52.31	6.3	-46.01
4	18223.62 PK	42.12	74	-31.88	-59.44	6.3	-53.14
5	39848.12 PK	37.68	74	-36.32	-63.88	6.3	-57.58
6	5193.75 AV	43.49	*		-58.07	6.3	-51.77
7	4720.31 AV	37.02	54	-16.98	-64.54	6.3	-58.24
8	8320.31 AV	33.8	54	-20.2	-67.76	6.3	-61.46
9	19886.81 AV	30.11	54	-23.89	-71.45	6.3	-65.15
10	39480.62 AV	25.2	54	-28.8	-76.36	6.3	-70.06

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.

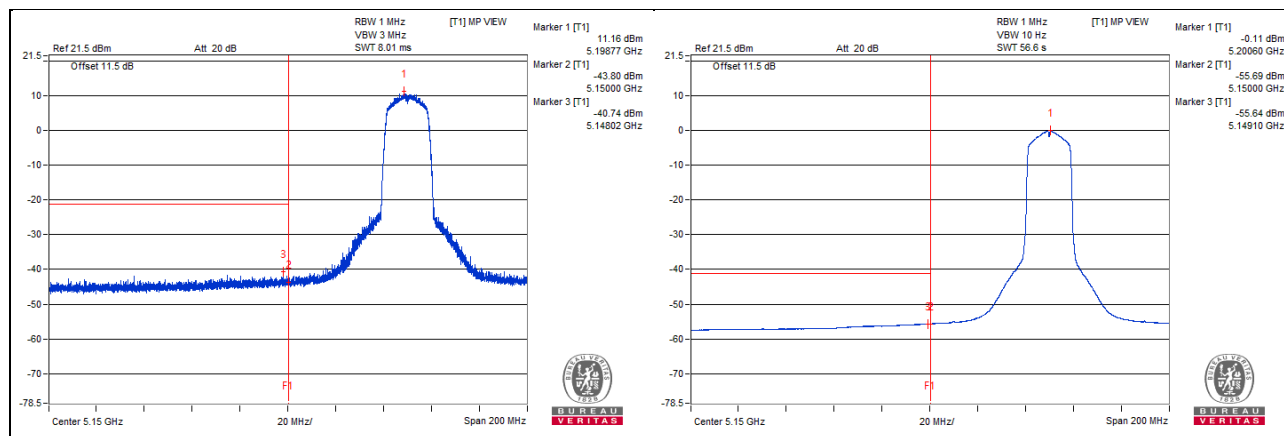


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5198.77 PK	112.02	*		11.16	5.6	16.76
2	5150 PK	57.06	74	-16.94	-43.8	5.6	-38.2
3	5148.02 PK	60.12	74	-13.88	-40.74	5.6	-35.14
4	5200.6 AV	100.75	*		-0.11	5.6	5.49
5	5150 AV	45.17	54	-8.83	-55.69	5.6	-50.09
6	5149.1 AV	45.22	54	-8.78	-55.64	5.6	-50.04

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.



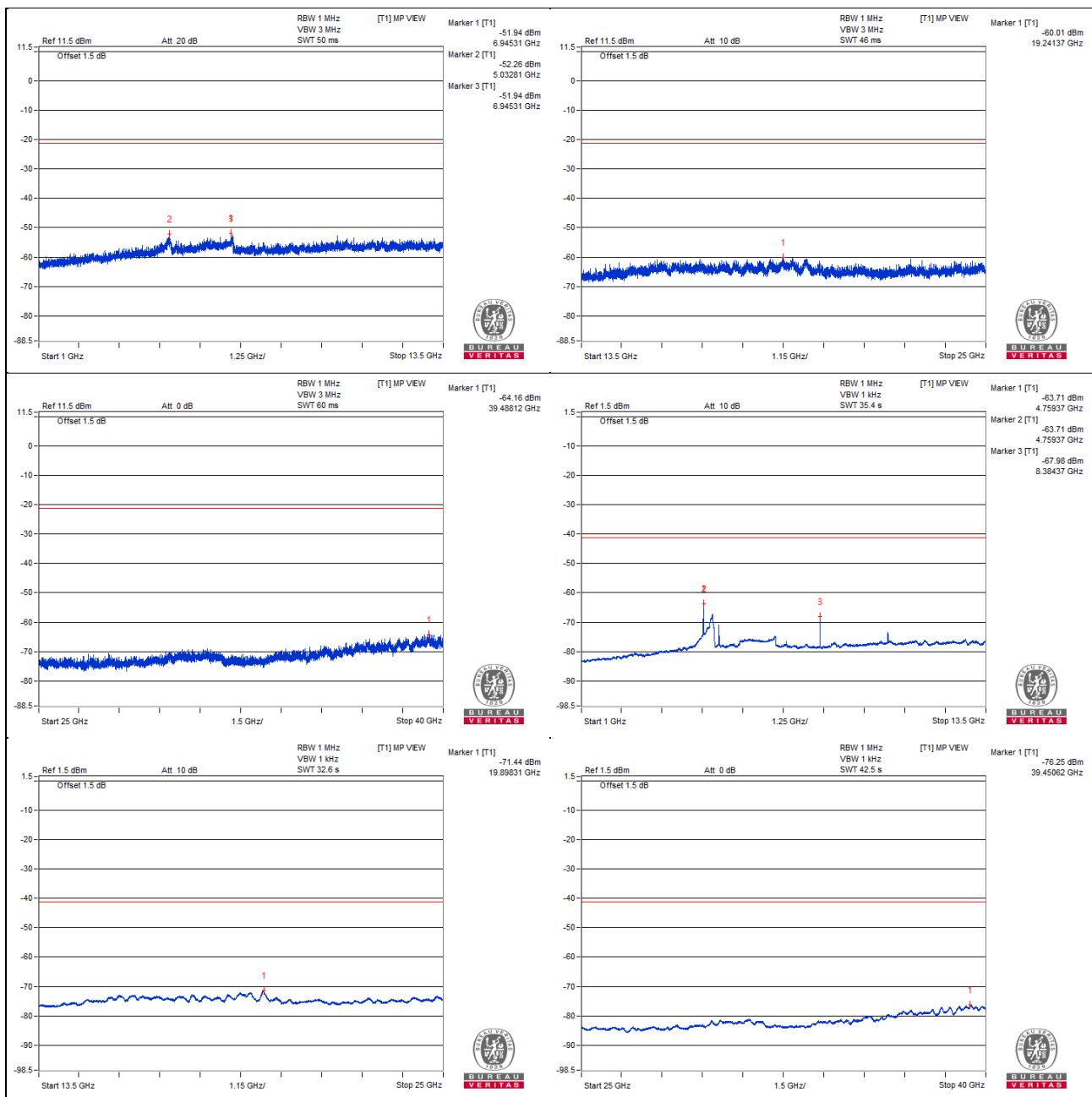
802.11ac (VHT20) - Channel 48

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	6945.31 PK	49.62	68.2	-18.58	-51.94	6.3	-45.64
2	5032.81 PK	49.3	74	-24.7	-52.26	6.3	-45.96
3	6945.31 PK	49.62	68.2	-18.58	-51.94	6.3	-45.64
4	19241.37 PK	41.55	74	-32.45	-60.01	6.3	-53.71
5	39488.12 PK	37.4	74	-36.6	-64.16	6.3	-57.86
6	4759.37 AV	37.85	54	-16.15	-63.71	6.3	-57.41
7	4759.37 AV	37.85	54	-16.15	-63.71	6.3	-57.41
8	8384.37 AV	33.58	54	-20.42	-67.98	6.3	-61.68
9	19898.31 AV	30.12	54	-23.88	-71.44	6.3	-65.14
10	39450.62 AV	25.31	54	-28.69	-76.25	6.3	-69.95

Note :

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

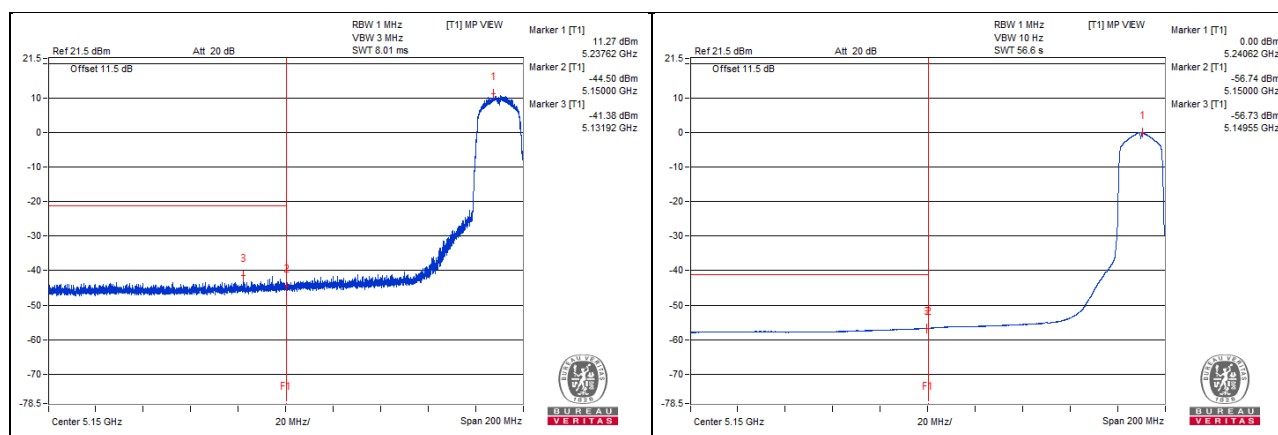


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5237.62 PK	112.13	*		11.27	5.6	16.87
2	5150 PK	56.36	74	-17.64	-44.5	5.6	-38.9
3	5131.92 PK	59.48	74	-14.52	-41.38	5.6	-35.78
4	5240.62 AV	100.86	*		0	5.6	5.6
5	5150 AV	44.12	54	-9.88	-56.74	5.6	-51.14
6	5149.55 AV	44.13	54	-9.87	-56.73	5.6	-51.13

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.



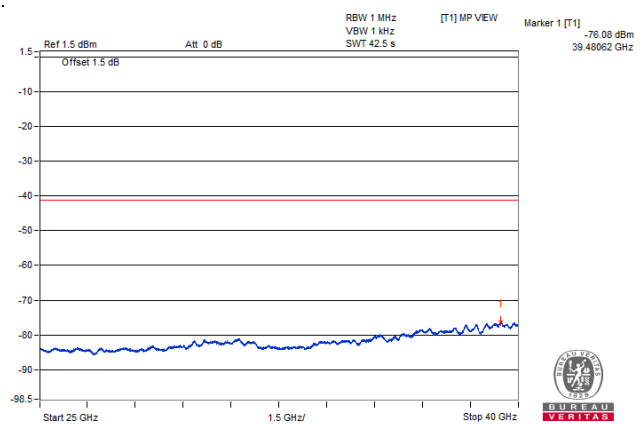
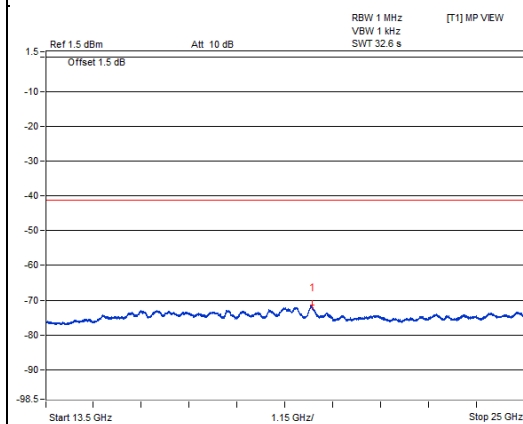
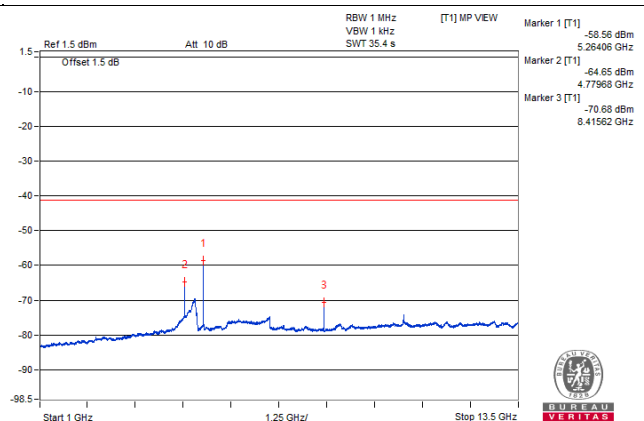
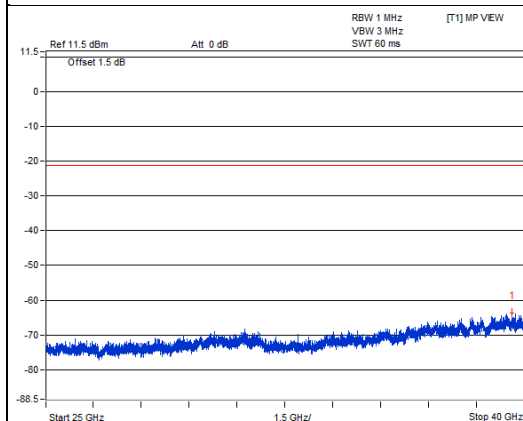
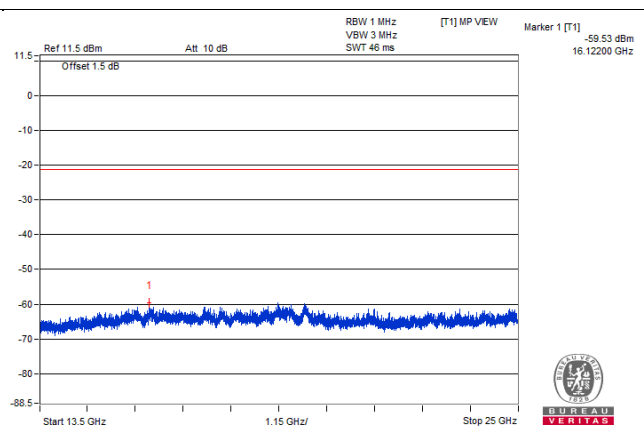
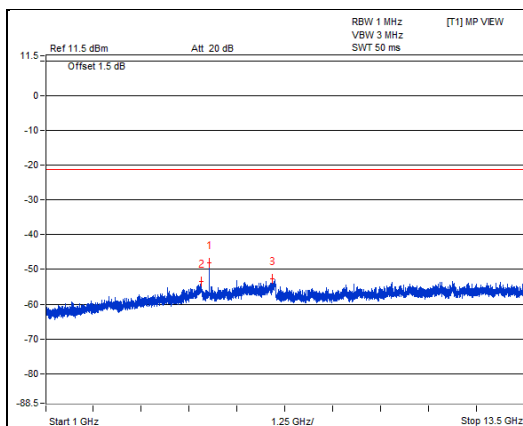
802.11ac (VHT20) - Channel 52

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	5267.18 PK	53.41	*		-48.15	6.3	-41.85
2	5045.31 PK	48.03	74	-25.97	-53.53	6.3	-47.23
3	6906.25 PK	48.91	68.2	-19.29	-52.65	6.3	-46.35
4	16122 PK	42.03	74	-31.97	-59.53	6.3	-53.23
5	39641.87 PK	37.77	74	-36.23	-63.79	6.3	-57.49
6	5264.06 AV	43	*		-58.56	6.3	-52.26
7	4779.68 AV	36.91	54	-17.09	-64.65	6.3	-58.35
8	8415.62 AV	30.88	54	-23.12	-70.68	6.3	-64.38
9	19901.18 AV	30.22	54	-23.78	-71.34	6.3	-65.04
10	39480.62 AV	25.48	54	-28.52	-76.08	6.3	-69.78

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.

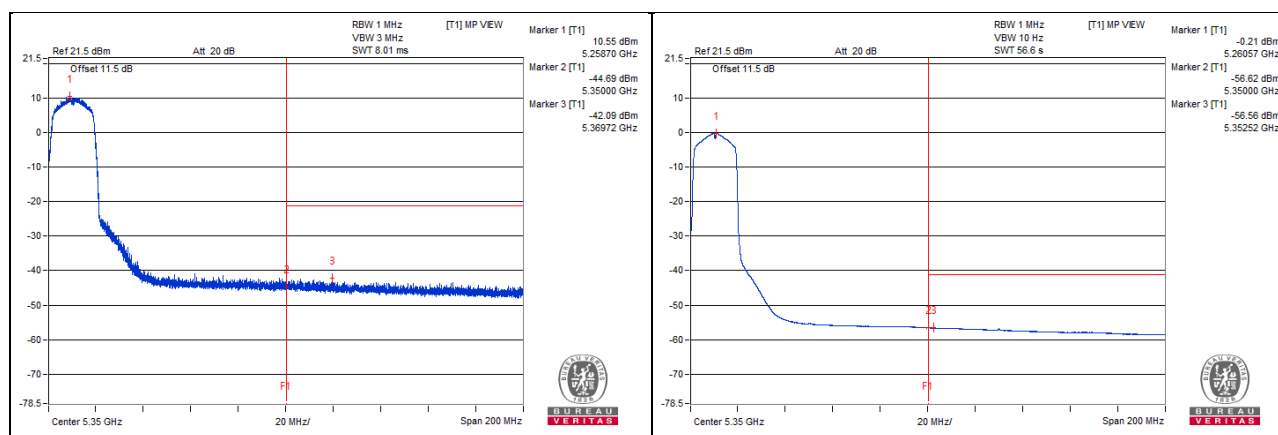


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5258.7 PK	111.78	*		10.55	5.97	16.52
2	5350 PK	56.54	74	-17.46	-44.69	5.97	-38.72
3	5369.72 PK	59.14	74	-14.86	-42.09	5.97	-36.12
4	5260.57 AV	101.02	*		-0.21	5.97	5.76
5	5350 AV	44.61	54	-9.39	-56.62	5.97	-50.65
6	5352.52 AV	44.67	54	-9.33	-56.56	5.97	-50.59

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.



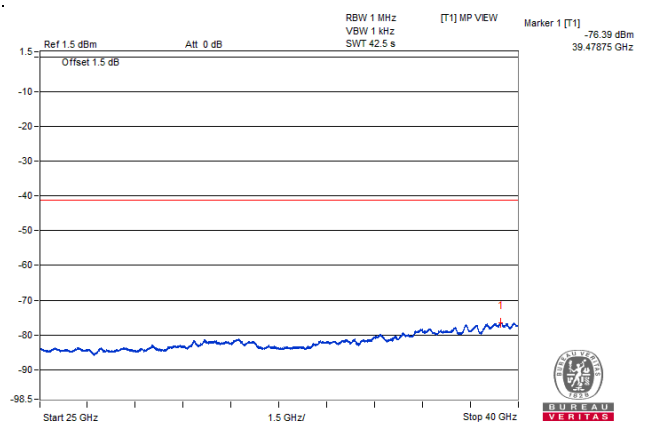
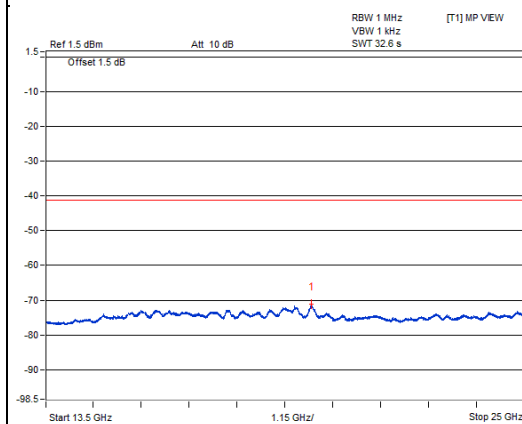
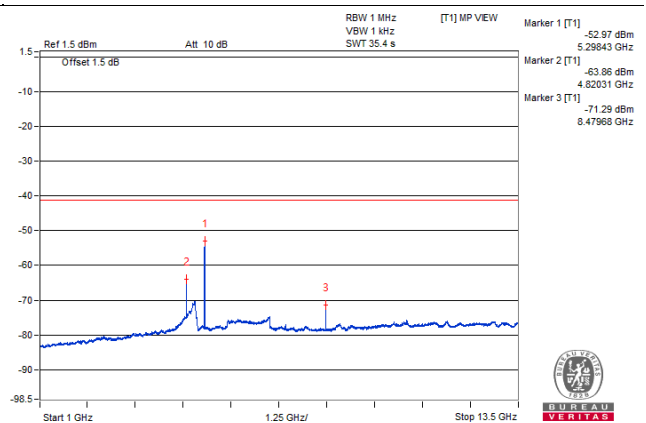
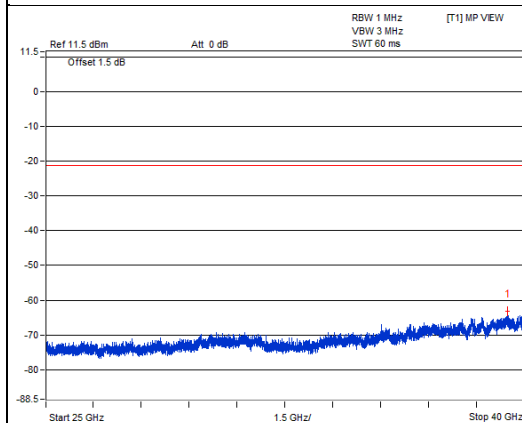
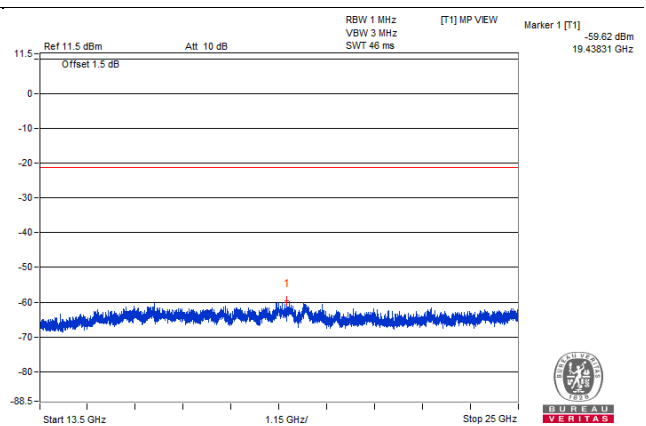
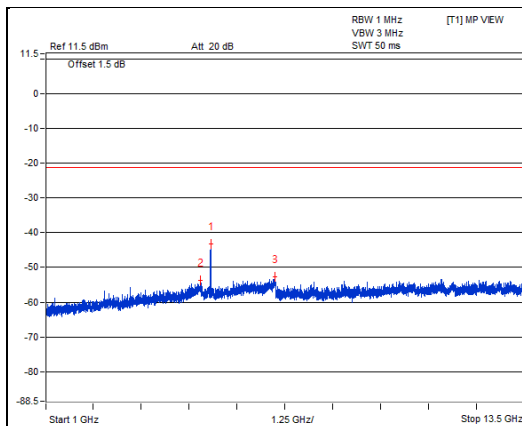
802.11ac (VHT20) - Channel 60

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	5298.43 PK	58.42	*		-43.14	6.3	-36.84
2	5020.31 PK	47.85	74	-26.15	-53.71	6.3	-47.41
3	6992.18 PK	48.86	68.2	-19.34	-52.7	6.3	-46.4
4	19438.31 PK	41.94	74	-32.06	-59.62	6.3	-53.32
5	39501.25 PK	38.37	74	-35.63	-63.19	6.3	-56.89
6	5298.43 AV	48.59	*		-52.97	6.3	-46.67
7	4820.31 AV	37.7	54	-16.3	-63.86	6.3	-57.56
8	8479.68 AV	30.27	54	-23.73	-71.29	6.3	-64.99
9	19889.68 AV	30.36	54	-23.64	-71.2	6.3	-64.9
10	39478.75 AV	25.17	54	-28.83	-76.39	6.3	-70.09

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.

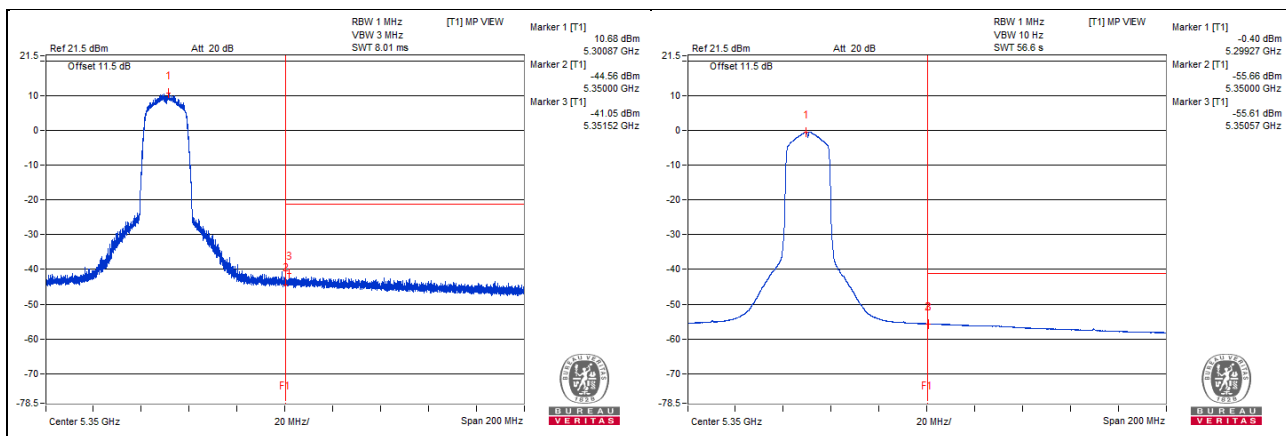


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5300.87 PK	111.91	*		10.68	5.97	16.65
2	5350 PK	56.67	74	-17.33	-44.56	5.97	-38.59
3	5351.52 PK	60.18	74	-13.82	-41.05	5.97	-35.08
4	5299.27 AV	100.83	*		-0.4	5.97	5.57
5	5350 AV	45.57	54	-8.43	-55.66	5.97	-49.69
6	5350.57 AV	45.62	54	-8.38	-55.61	5.97	-49.64

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.



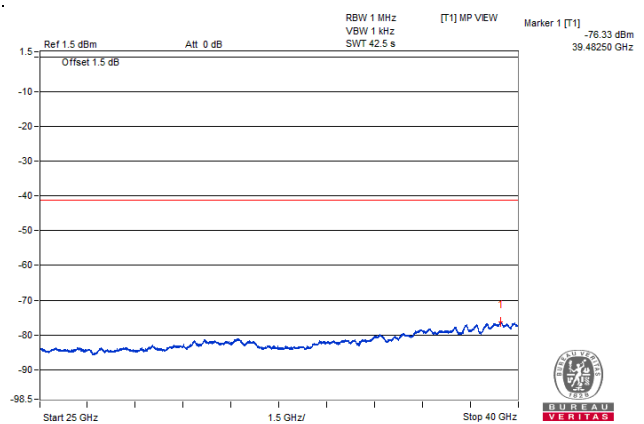
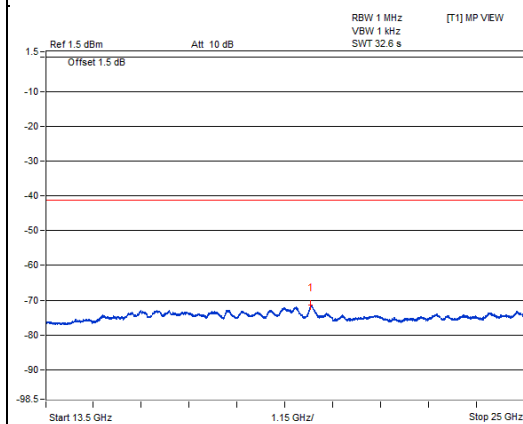
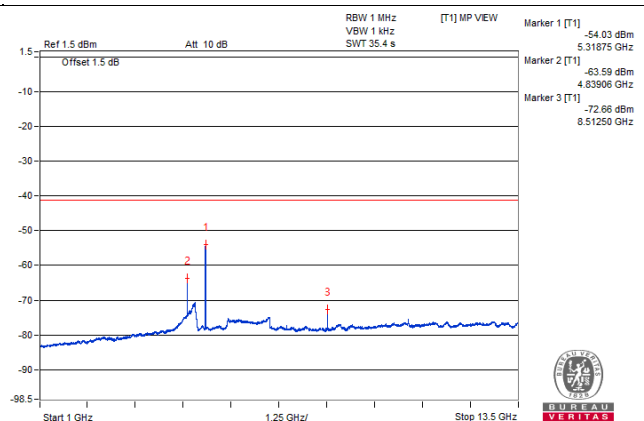
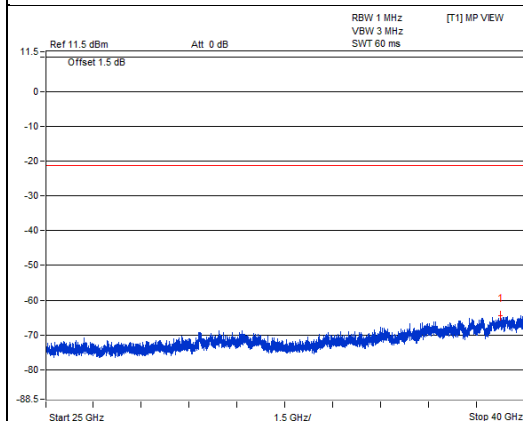
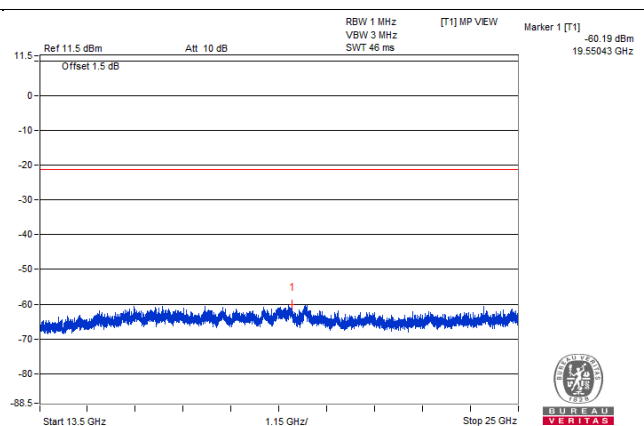
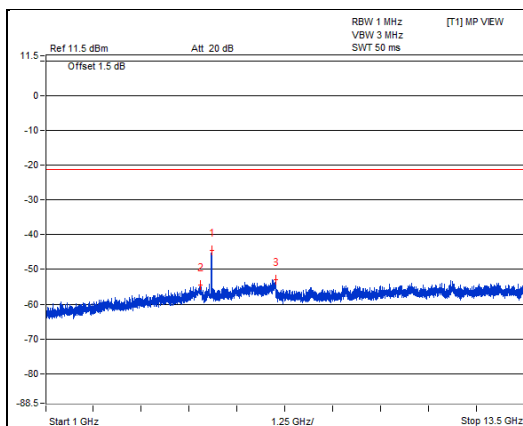
802.11ac (VHT20) - Channel 64

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	5321.87 PK	57.03	*		-44.53	6.3	-38.23
2	5025 PK	47	74	-27	-54.56	6.3	-48.26
3	6995.31 PK	48.71	68.2	-19.49	-52.85	6.3	-46.55
4	19550.43 PK	41.37	74	-32.63	-60.19	6.3	-53.89
5	39276.25 PK	37.06	74	-36.94	-64.5	6.3	-58.2
6	5318.75 AV	47.53	*		-54.03	6.3	-47.73
7	4839.06 AV	37.97	54	-16.03	-63.59	6.3	-57.29
8	8512.5 AV	28.9	#		-72.66	6.3	-66.36
9	19869.56 AV	30.26	54	-23.74	-71.3	6.3	-65
10	39482.5 AV	25.23	54	-28.77	-76.33	6.3	-70.03

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.

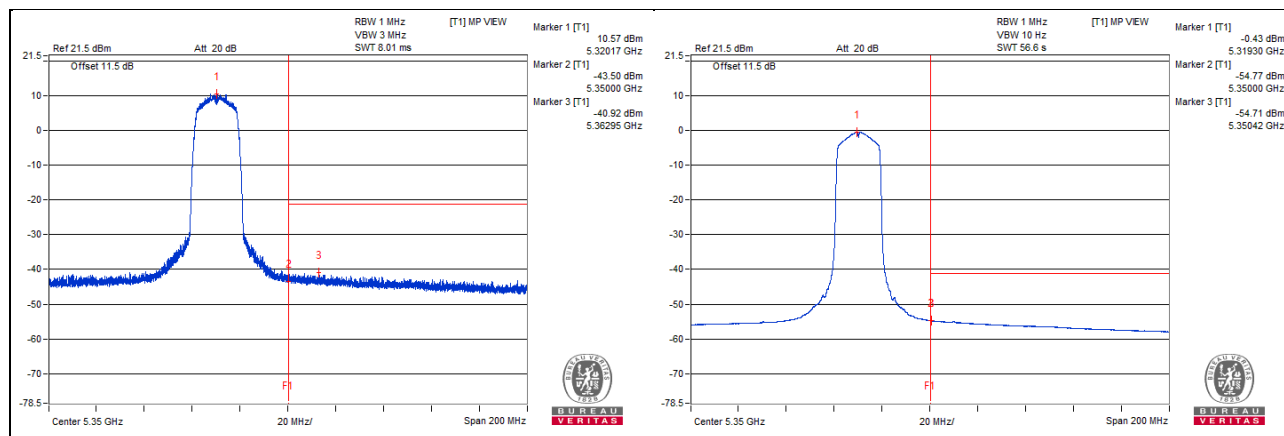


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5320.17 PK	111.8	*		10.57	5.97	16.54
2	5350 PK	57.73	74	-16.27	-43.5	5.97	-37.53
3	5362.95 PK	60.31	74	-13.69	-40.92	5.97	-34.95
4	5319.3 AV	100.8	*		-0.43	5.97	5.54
5	5350 AV	46.46	54	-7.54	-54.77	5.97	-48.8
6	5350.42 AV	46.52	54	-7.48	-54.71	5.97	-48.74

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.



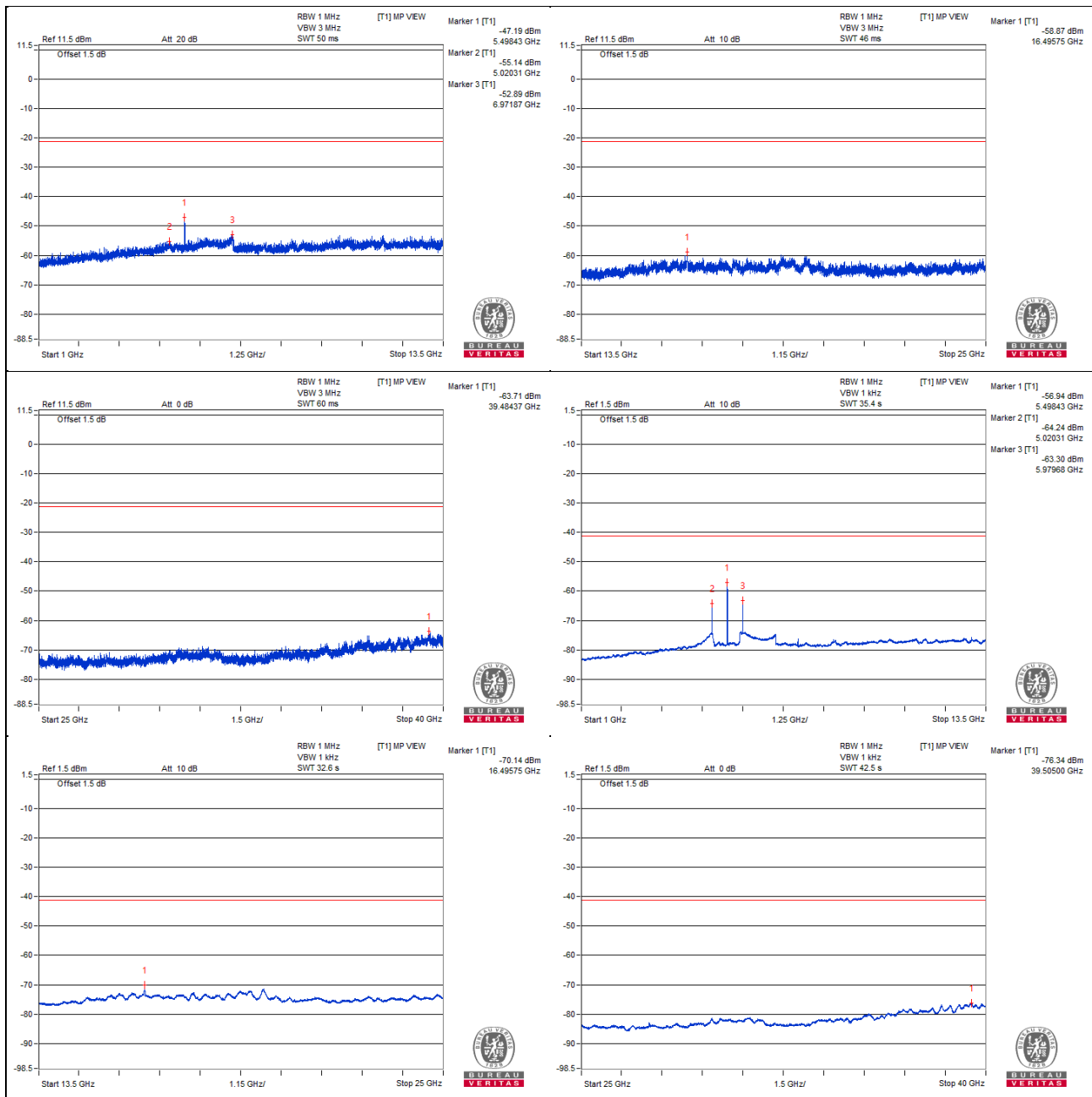
802.11ac (VHT20) - Channel 100

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	5498.43 PK	54.37	*		-47.19	6.3	-40.89
2	5020.31 PK	46.42	74	-27.58	-55.14	6.3	-48.84
3	6971.87 PK	48.67	68.2	-19.53	-52.89	6.3	-46.59
4	16495.75 PK	42.69	68.2	-25.51	-58.87	6.3	-52.57
5	39484.37 PK	37.85	74	-36.15	-63.71	6.3	-57.41
6	5498.43 AV	44.62	*		-56.94	6.3	-50.64
7	5020.31 AV	37.32	54	-16.68	-64.24	6.3	-57.94
8	5979.68 AV	38.26	#		-63.3	6.3	-57
9	16495.75 AV	31.42	#		-70.14	6.3	-63.84
10	39505 AV	25.22	54	-28.78	-76.34	6.3	-70.04

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.

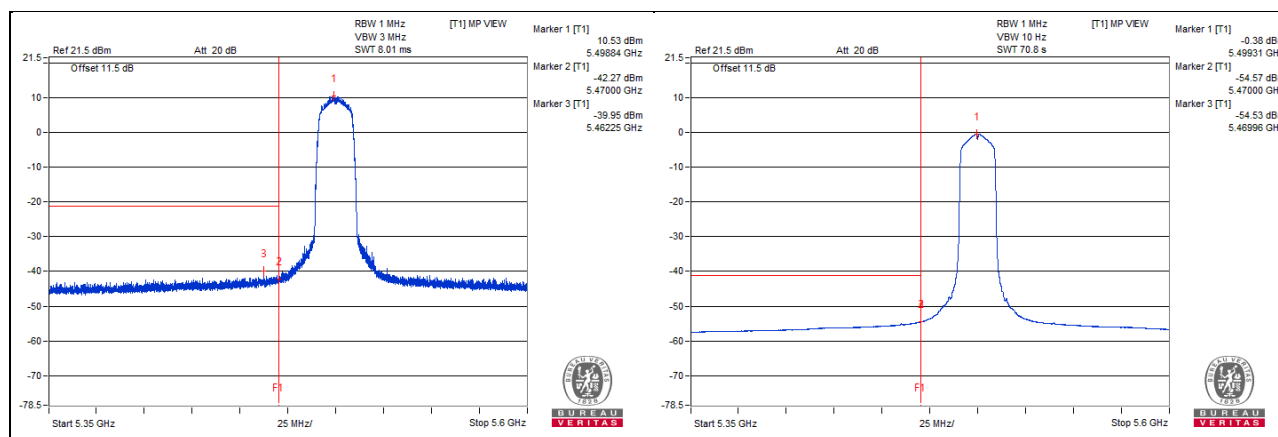


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5498.84 PK	111.72	*		10.53	5.93	16.46
2	5470 PK	58.92	68.2	-9.28	-42.27	5.93	-36.34
3	5462.25 PK	61.24	68.2	-6.96	-39.95	5.93	-34.02
4	5499.31 AV	100.81	*		-0.38	5.93	5.55
5	5470 AV	46.62	#		-54.57	5.93	-48.64
6	5469.96 AV	46.66	#		-54.53	5.93	-48.6

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.



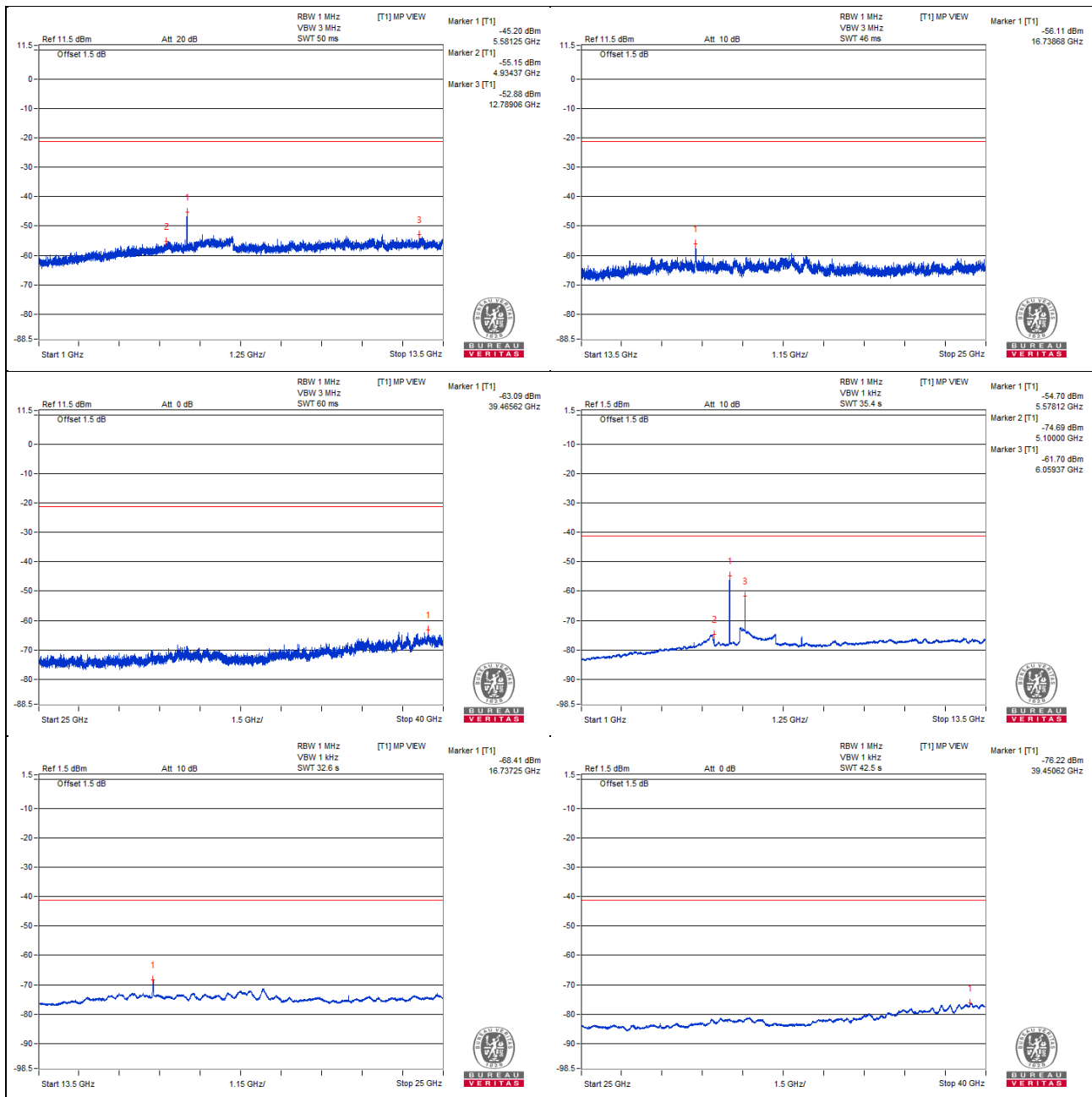
802.11ac (VHT20) - Channel 116

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	56.36	*		-45.2	6.3	-38.9
2	4934.37 PK	46.41	74	-27.59	-55.15	6.3	-48.85
3	12789.06 PK	48.68	68.2	-19.52	-52.88	6.3	-46.58
4	16738.68 PK	45.45	68.2	-22.75	-56.11	6.3	-49.81
5	39465.62 PK	38.47	74	-35.53	-63.09	6.3	-56.79
6	5578.12 AV	46.86	*		-54.7	6.3	-48.4
7	5100 AV	26.87	54	-27.13	-74.69	6.3	-68.39
8	6059.37 AV	39.86	#		-61.7	6.3	-55.4
9	16737.25 AV	33.15	#		-68.41	6.3	-62.11
10	39450.62 AV	25.34	54	-28.66	-76.22	6.3	-69.92

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.
3. # : Non-restricted frequency, no limit for average emission.

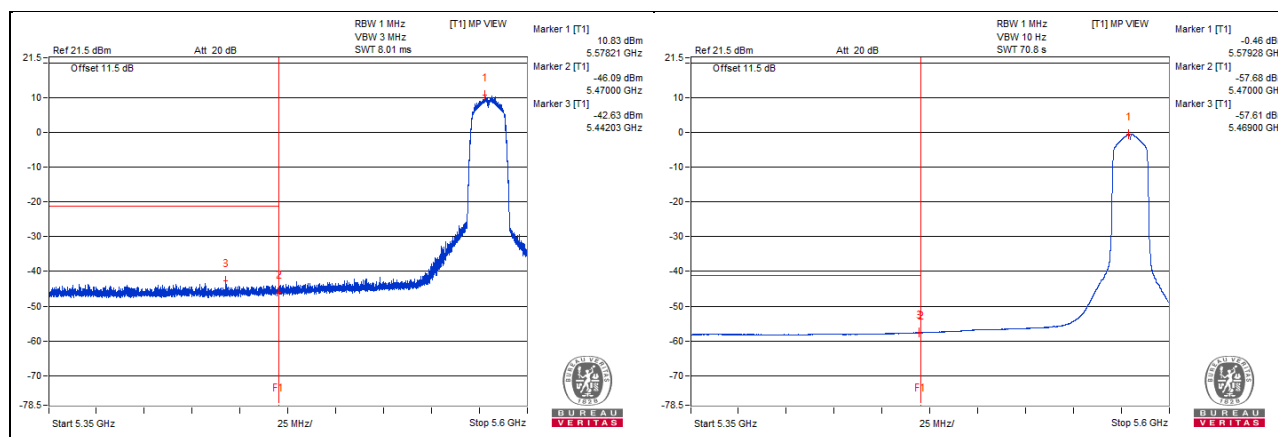


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5578.21 PK	112.02	*		10.83	5.93	16.76
2	5470 PK	55.1	68.2	-13.1	-46.09	5.93	-40.16
3	5442.03 PK	58.56	74	-15.44	-42.63	5.93	-36.7
4	5579.28 AV	100.73	*		-0.46	5.93	5.47
5	5470 AV	43.51	#		-57.68	5.93	-51.75
6	5469 AV	43.58	#		-57.61	5.93	-51.68

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.



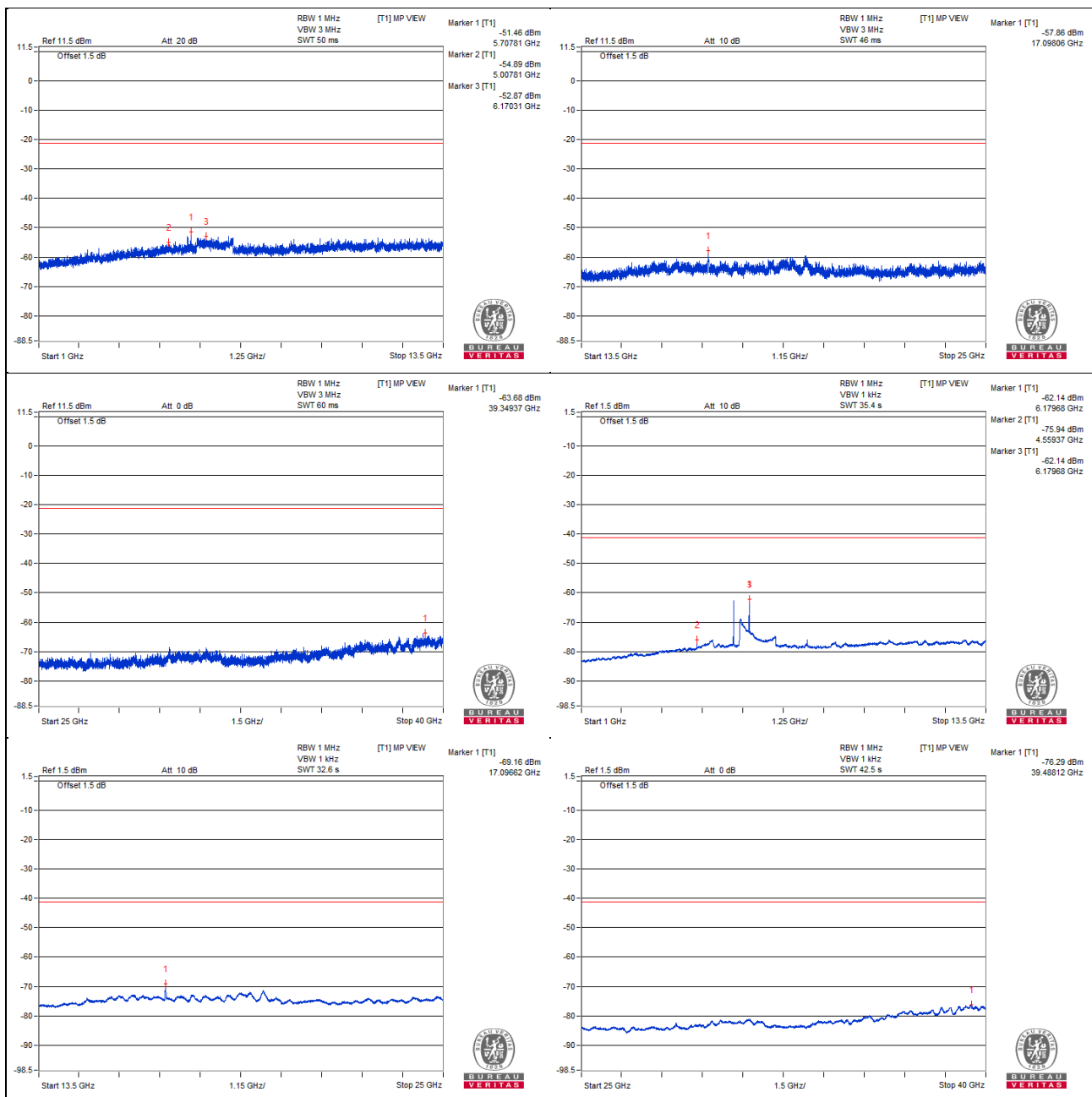
802.11ac (VHT20) - Channel 140

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	5707.81 PK	50.1	*		-51.46	6.3	-45.16
2	5007.81 PK	46.67	74	-27.33	-54.89	6.3	-48.59
3	6170.31 PK	48.69	68.2	-19.51	-52.87	6.3	-46.57
4	17098.06 PK	43.7	68.2	-24.5	-57.86	6.3	-51.56
5	39349.37 PK	37.88	74	-36.12	-63.68	6.3	-57.38
6	6179.68 AV	39.42	#		-62.14	6.3	-55.84
7	4559.37 AV	25.62	54	-28.38	-75.94	6.3	-69.64
8	6179.68 AV	39.42	#		-62.14	6.3	-55.84
9	17096.62 AV	32.4	#		-69.16	6.3	-62.86
10	39488.12 AV	25.27	54	-28.73	-76.29	6.3	-69.99

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.

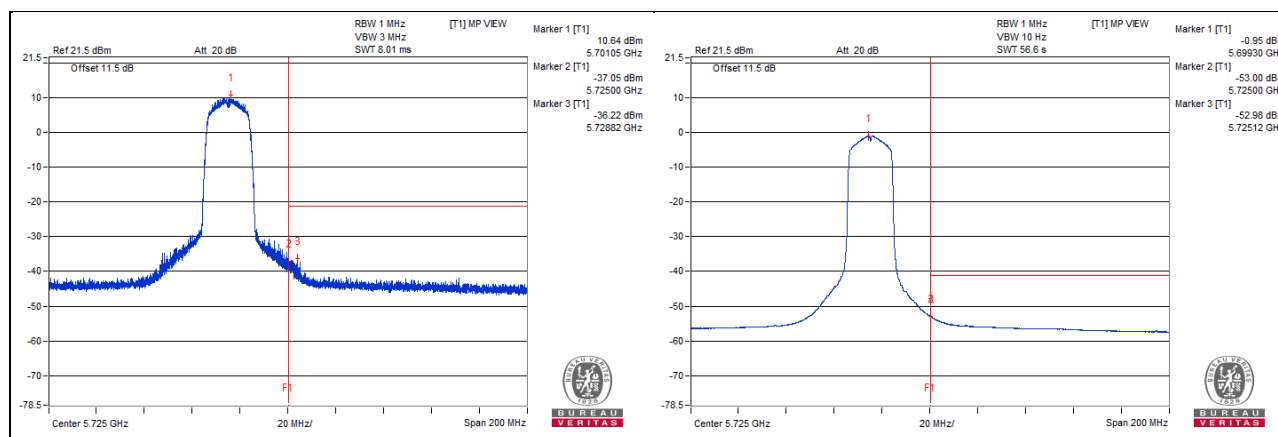


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5701.05 PK	111.83	*		10.64	5.93	16.57
2	5725 PK	64.14	68.2	-4.06	-37.05	5.93	-31.12
3	5728.82 PK	64.97	68.2	-3.23	-36.22	5.93	-30.29
4	5699.3 AV	100.24	*		-0.95	5.93	4.98
5	5725 AV	48.19	#		-53	5.93	-47.07
6	5725.12 AV	48.21	#		-52.98	5.93	-47.05

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.
3. # : Non-restricted frequency, no limit for average emission.



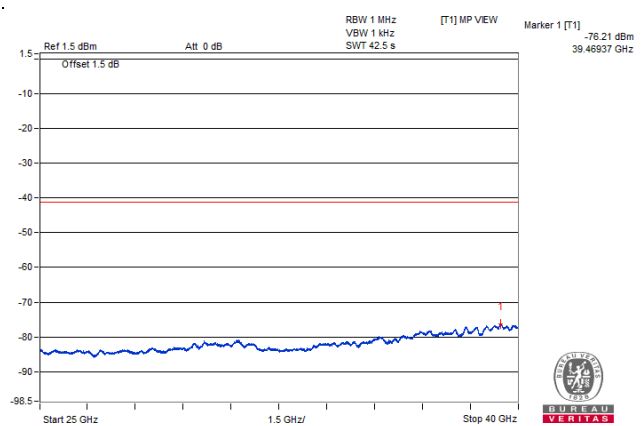
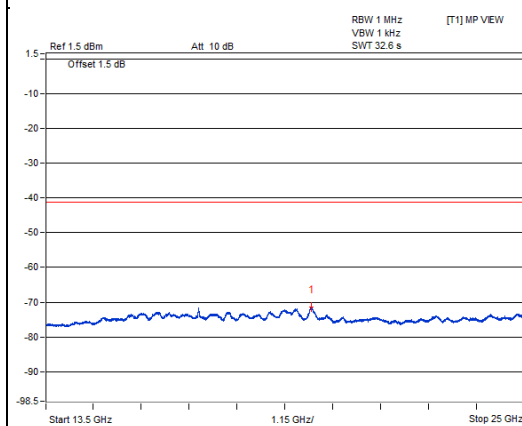
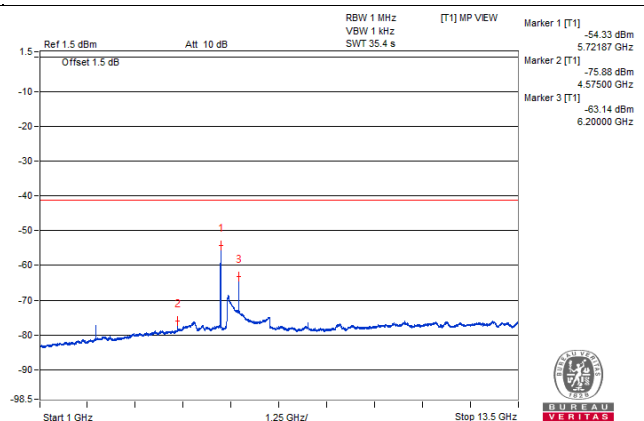
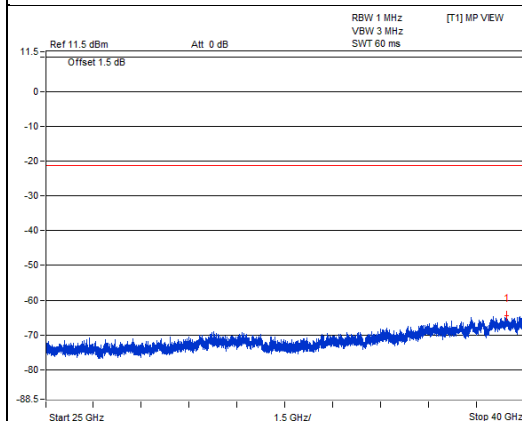
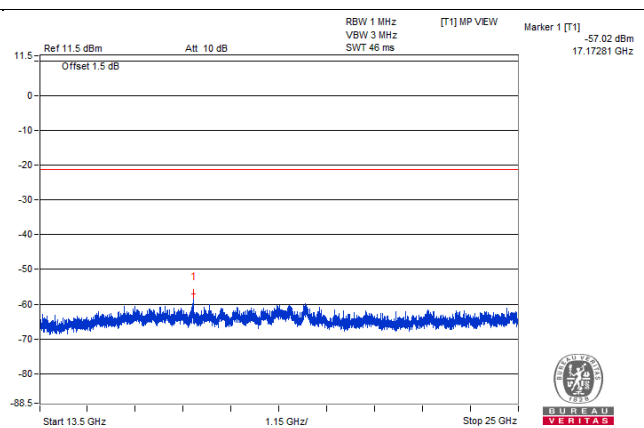
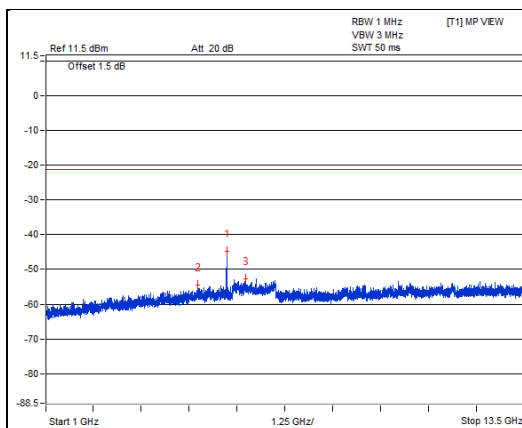
802.11ac (VHT20) - Channel 144

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	5721.87 PK	56.72	*		-44.84	6.3	-38.54
2	4968.75 PK	47.01	74	-26.99	-54.55	6.3	-48.25
3	6207.81 PK	48.95	68.2	-19.25	-52.61	6.3	-46.31
4	17172.81 PK	44.54	68.2	-23.66	-57.02	6.3	-50.72
5	39461.87 PK	37.15	74	-36.85	-64.41	6.3	-58.11
6	5721.87 AV	47.23	*		-54.33	6.3	-48.03
7	4575 AV	25.68	54	-28.32	-75.88	6.3	-69.58
8	6200 AV	38.42	#		-63.14	6.3	-56.84
9	19886.81 AV	30.08	54	-23.92	-71.48	6.3	-65.18
10	39469.37 AV	25.35	54	-28.65	-76.21	6.3	-69.91

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.

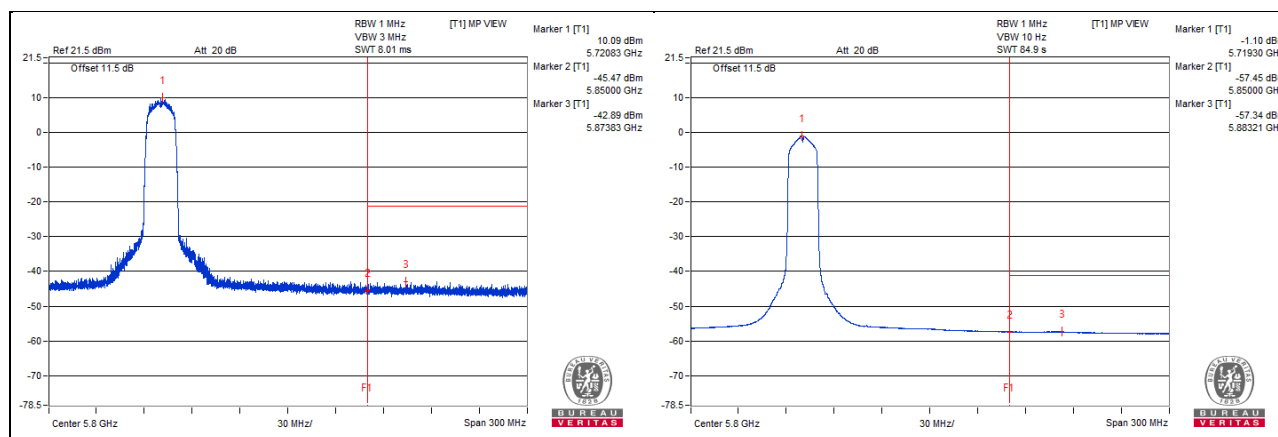


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5720.83 PK	111.65	*		10.09	6.3	16.39
2	5850 PK	56.09	68.2	-12.11	-45.47	6.3	-39.17
3	5873.83 PK	58.67	68.2	-9.53	-42.89	6.3	-36.59
4	5719.3 AV	100.46	*		-1.1	6.3	5.2
5	5850 AV	44.11	#		-57.45	6.3	-51.15
6	5883.21 AV	44.22	#		-57.34	6.3	-51.04

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.



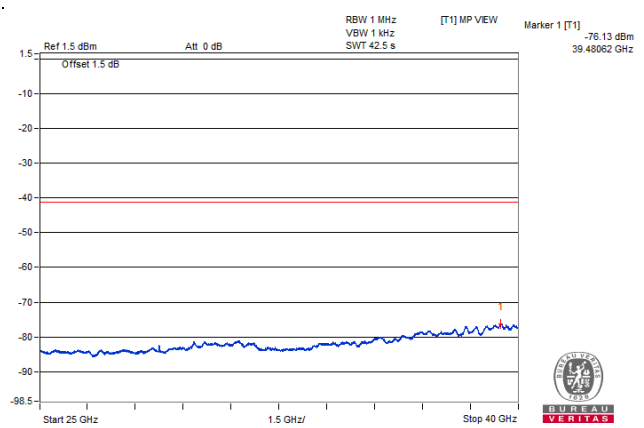
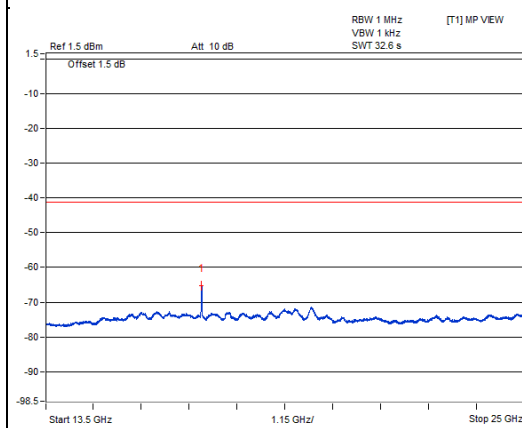
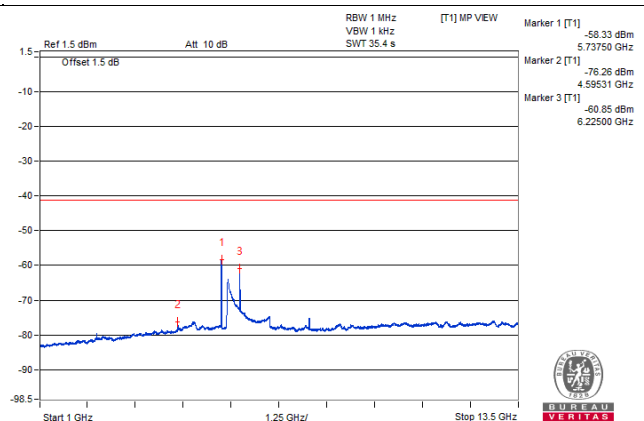
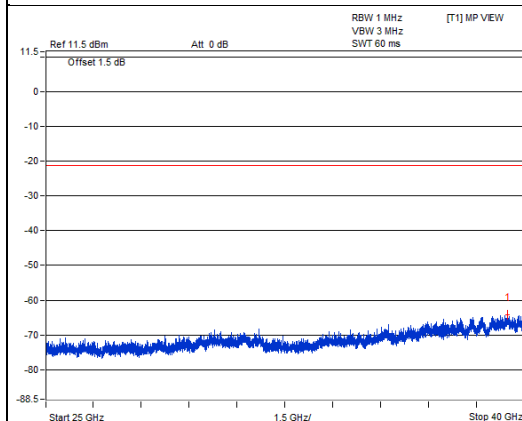
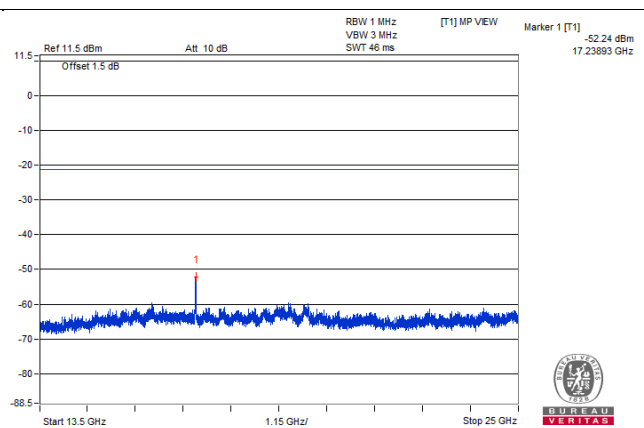
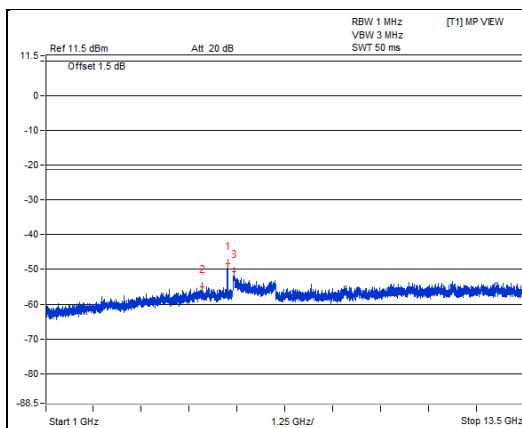
802.11ac (VHT20) – Channel 149

Conducted spurious emission table

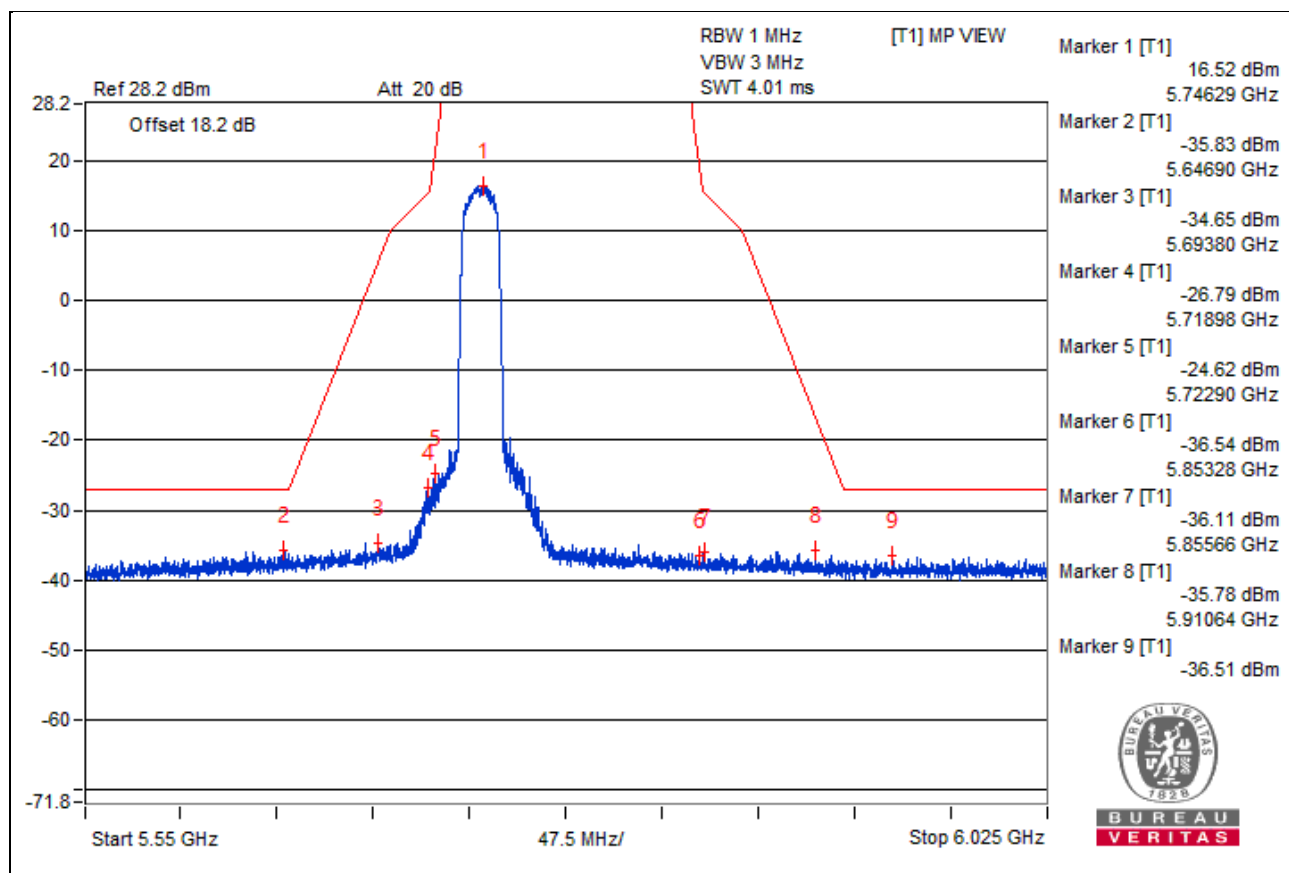
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5737.5 PK	53.27	*		-48.29	6.3	-41.99
2	5065.62 PK	46.67	74	-27.33	-54.89	6.3	-48.59
3	5906.25 PK	50.98	68.2	-17.22	-50.58	6.3	-44.28
4	17238.93 PK	49.32	68.2	-18.88	-52.24	6.3	-45.94
5	39501.25 PK	37.48	74	-36.52	-64.08	6.3	-57.78
6	5737.5 AV	43.23	*		-58.33	6.3	-52.03
7	4595.31 AV	25.3	54	-28.7	-76.26	6.3	-69.96
8	6225 AV	40.71	#		-60.85	6.3	-54.55
9	17236.06 AV	36.21	#		-65.35	6.3	-59.05
10	39480.62 AV	25.43	54	-28.57	-76.13	6.3	-69.83

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 (1.9 dB) and antenna gain (6.3 dBi).
2. The test results were EIRP.

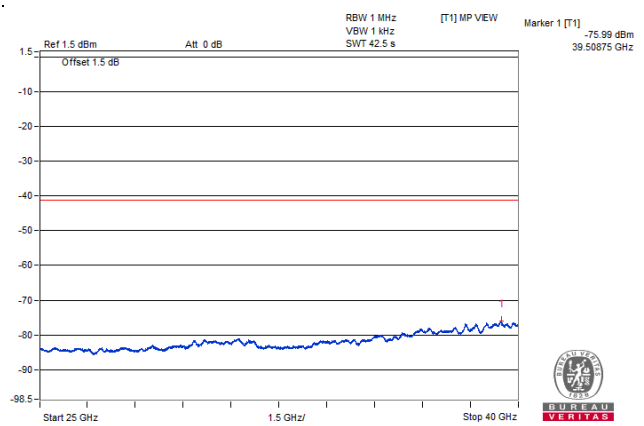
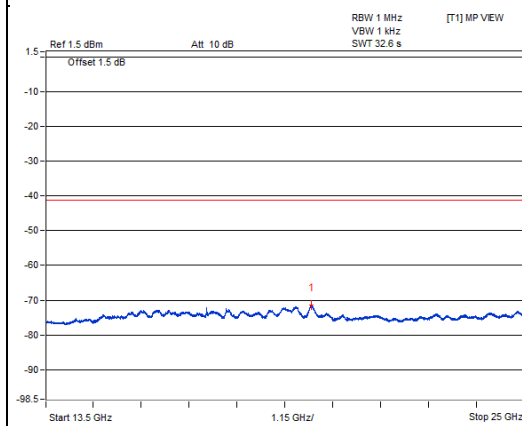
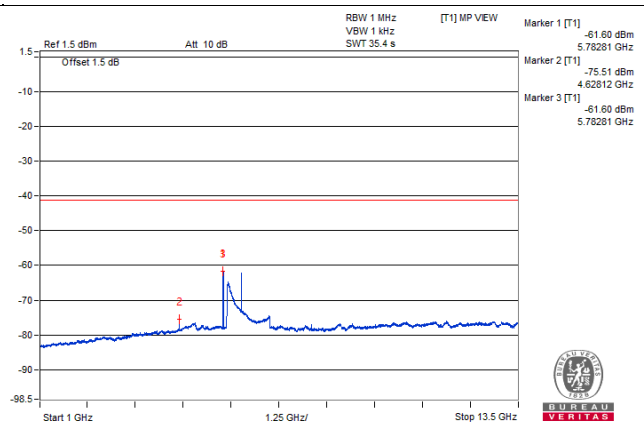
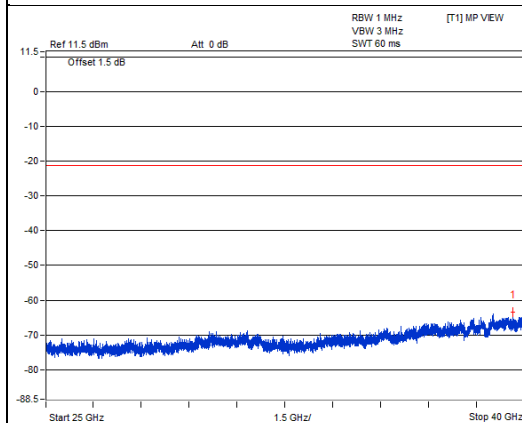
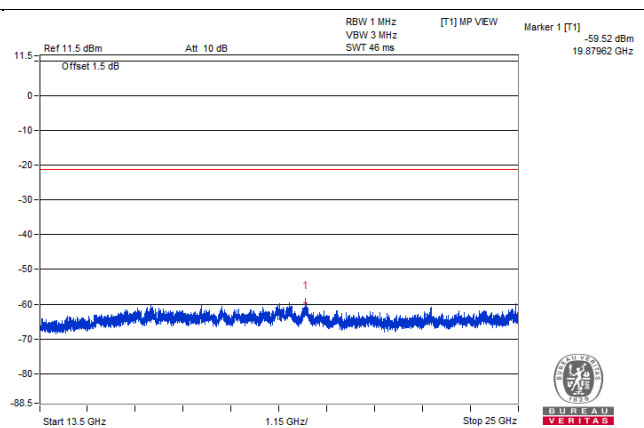
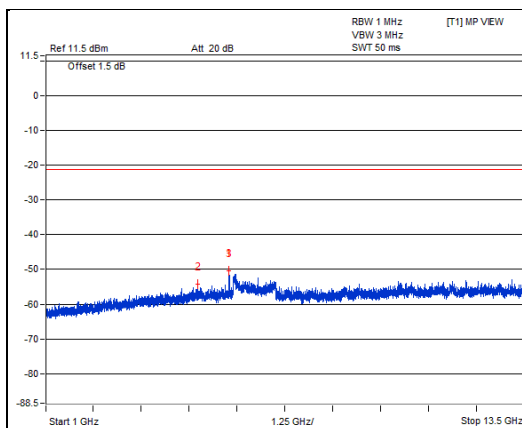
802.11ac (VHT20) – Channel 157

Conducted spurious emission table

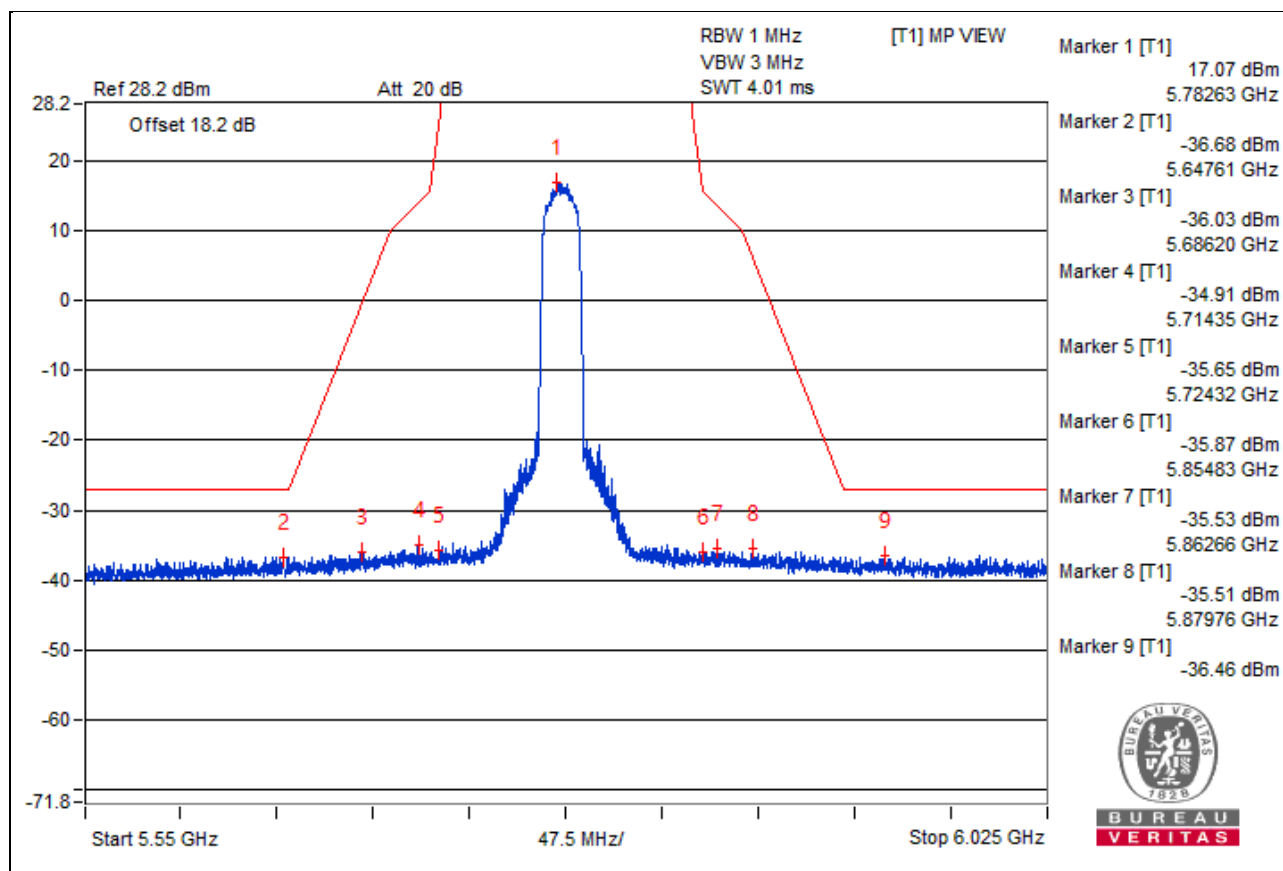
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5776.56 PK	51.09	*		-50.47	6.3	-44.17
2	4968.75 PK	47.34	74	-26.66	-54.22	6.3	-47.92
3	5776.56 PK	51.09	*		-50.47	6.3	-44.17
4	19879.62 PK	42.04	74	-31.96	-59.52	6.3	-53.22
5	39664.37 PK	38.1	74	-35.9	-63.46	6.3	-57.16
6	5782.81 AV	39.96	*		-61.6	6.3	-55.3
7	4628.12 AV	26.05	54	-27.95	-75.51	6.3	-69.21
8	5782.81 AV	39.96	*		-61.6	6.3	-55.3
9	19886.81 AV	30.15	54	-23.85	-71.41	6.3	-65.11
10	39508.75 AV	25.57	54	-28.43	-75.99	6.3	-69.69

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.



Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.9 dB) and antenna gain (6.3 dBi).
2. The test results were EIRP.

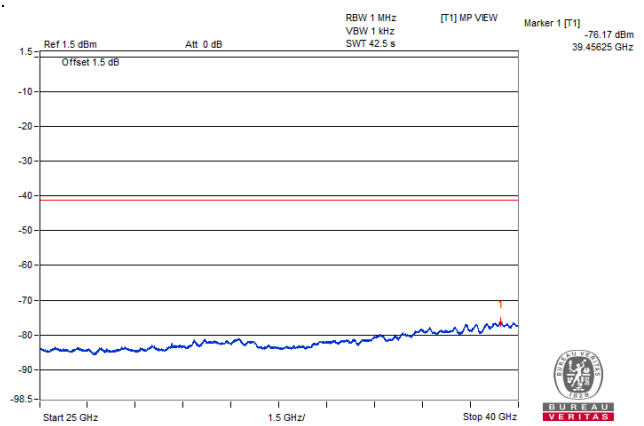
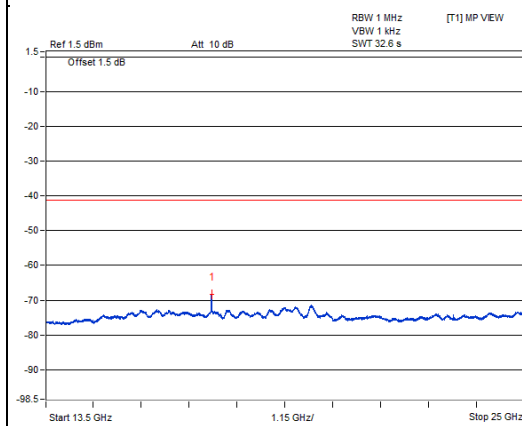
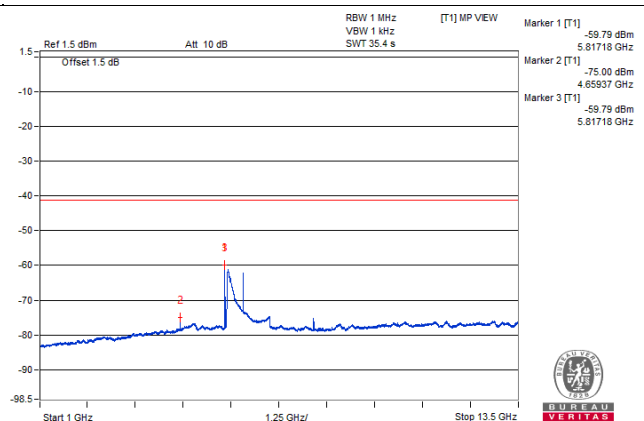
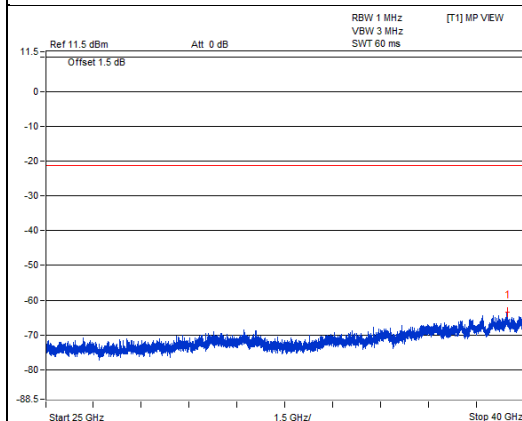
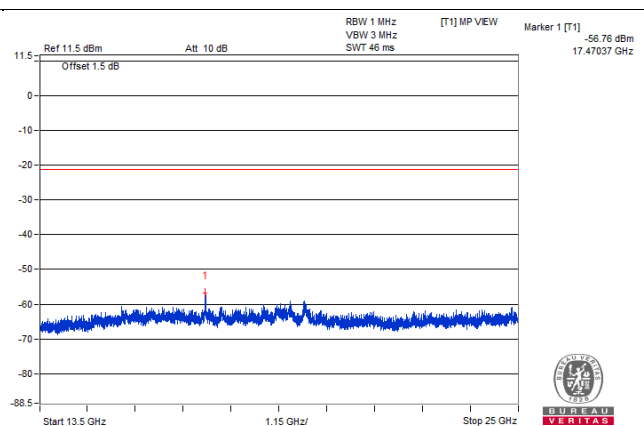
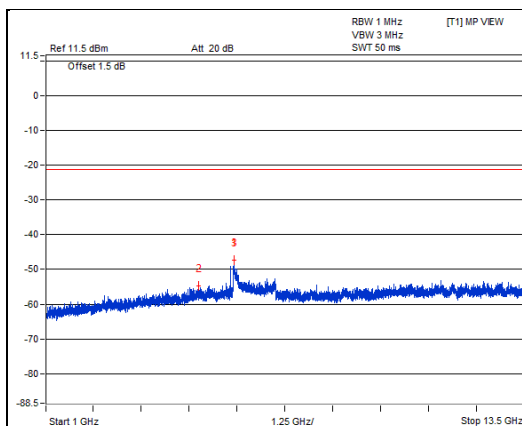
802.11ac (VHT20) – Channel 165

Conducted spurious emission table

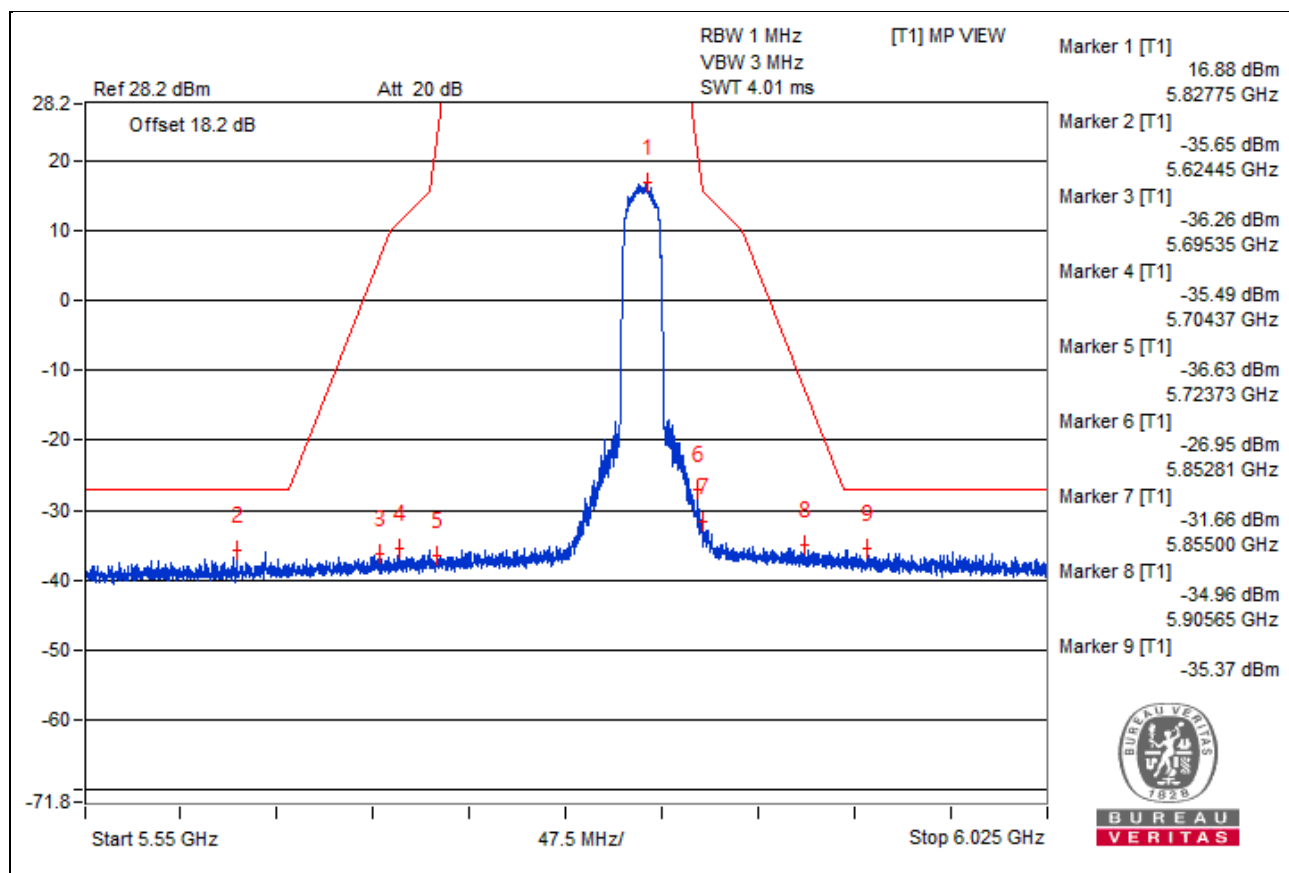
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5917.18 PK	54.11	68.2	-14.09	-47.45	6.3	-41.15
2	4976.56 PK	46.83	74	-27.17	-54.73	6.3	-48.43
3	5917.18 PK	54.11	68.2	-14.09	-47.45	6.3	-41.15
4	17470.37 PK	44.8	68.2	-23.4	-56.76	6.3	-50.46
5	39499.37 PK	38.2	74	-35.8	-63.36	6.3	-57.06
6	5817.18 AV	41.77	*		-59.79	6.3	-53.49
7	4659.37 AV	26.56	54	-27.44	-75	6.3	-68.7
8	5817.18 AV	41.77	*		-59.79	6.3	-53.49
9	17473.25 AV	33.2	#		-68.36	6.3	-62.06
10	39456.25 AV	25.39	54	-28.61	-76.17	6.3	-69.87

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



Note:

1. The offset including attenuator (10dB), cable loss (1.9 dB) and antenna gain (6.3 dBi).
2. The test results were EIRP.

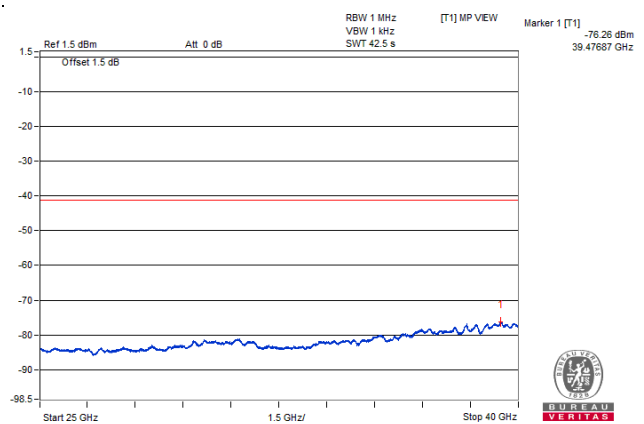
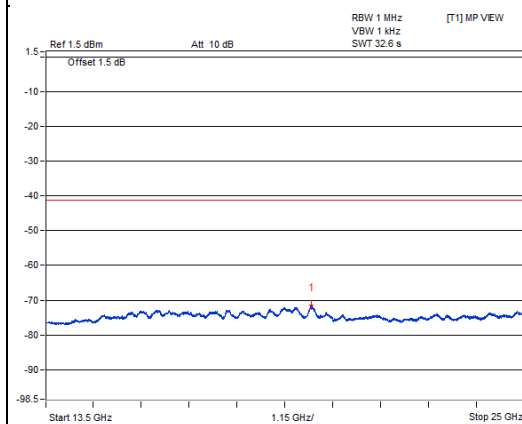
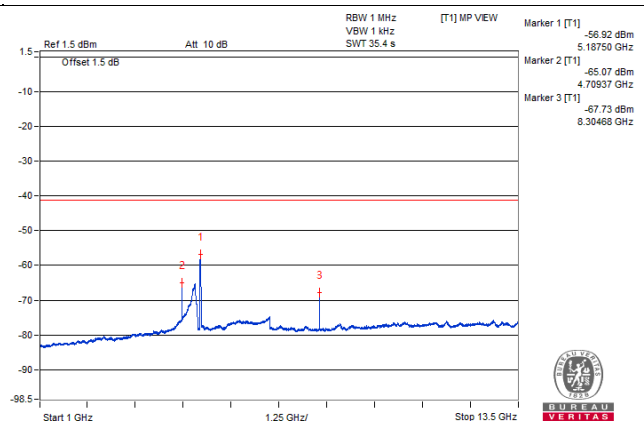
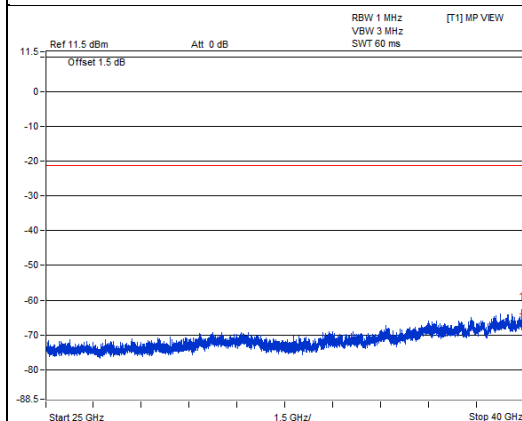
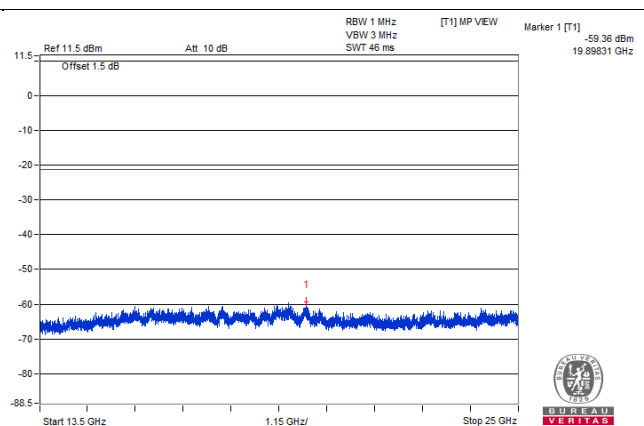
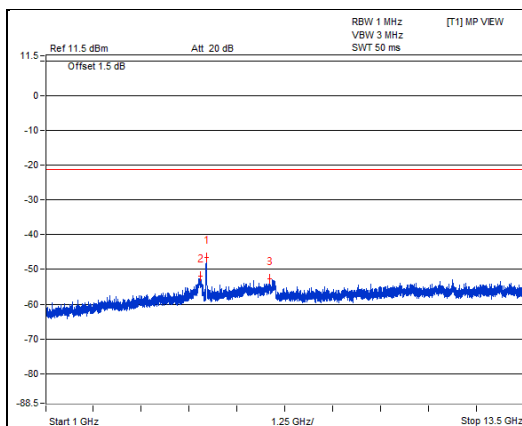
802.11ac (VHT40) - Channel 38

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	54.91	*		-46.65	6.3	-40.35
2	5034.37 PK	49.75	74	-24.25	-51.81	6.3	-45.51
3	6845.31 PK	48.87	68.2	-19.33	-52.69	6.3	-46.39
4	19898.31 PK	42.2	74	-31.8	-59.36	6.3	-53.06
5	39947.5 PK	37.54	74	-36.46	-64.02	6.3	-57.72
6	5187.5 AV	44.64	*		-56.92	6.3	-50.62
7	4709.37 AV	36.49	54	-17.51	-65.07	6.3	-58.77
8	8304.68 AV	33.83	54	-20.17	-67.73	6.3	-61.43
9	19886.81 AV	30.27	54	-23.73	-71.29	6.3	-64.99
10	39476.87 AV	25.3	54	-28.7	-76.26	6.3	-69.96

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.

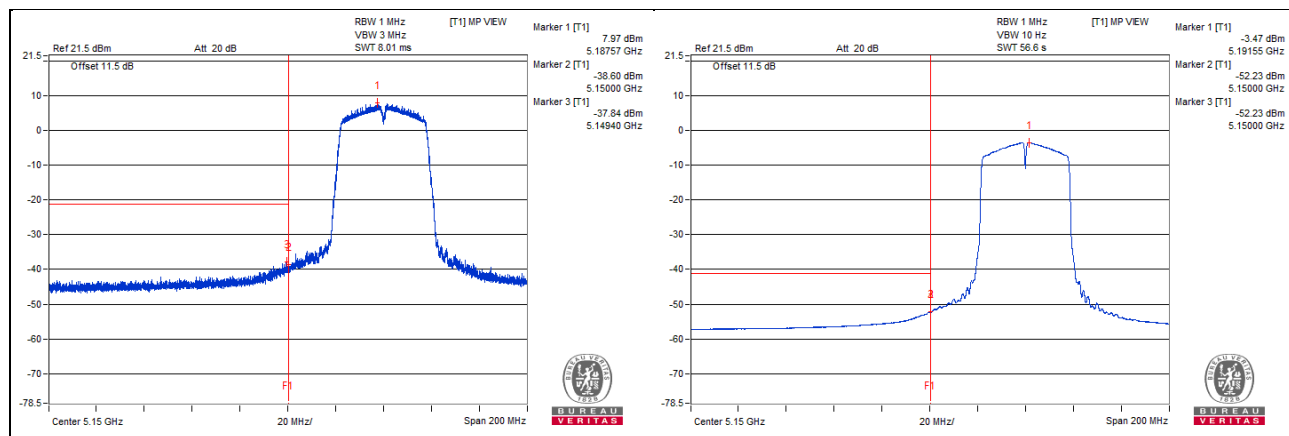


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5187.57 PK	108.83	*		7.97	5.6	13.57
2	5150 PK	62.26	74	-11.74	-38.6	5.6	-33
3	5149.4 PK	63.02	74	-10.98	-37.84	5.6	-32.24
4	5191.55 AV	97.39	*		-3.47	5.6	2.13
5	5150 AV	48.63	54	-5.37	-52.23	5.6	-46.63
6	5150 AV	48.63	54	-5.37	-52.23	5.6	-46.63

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.



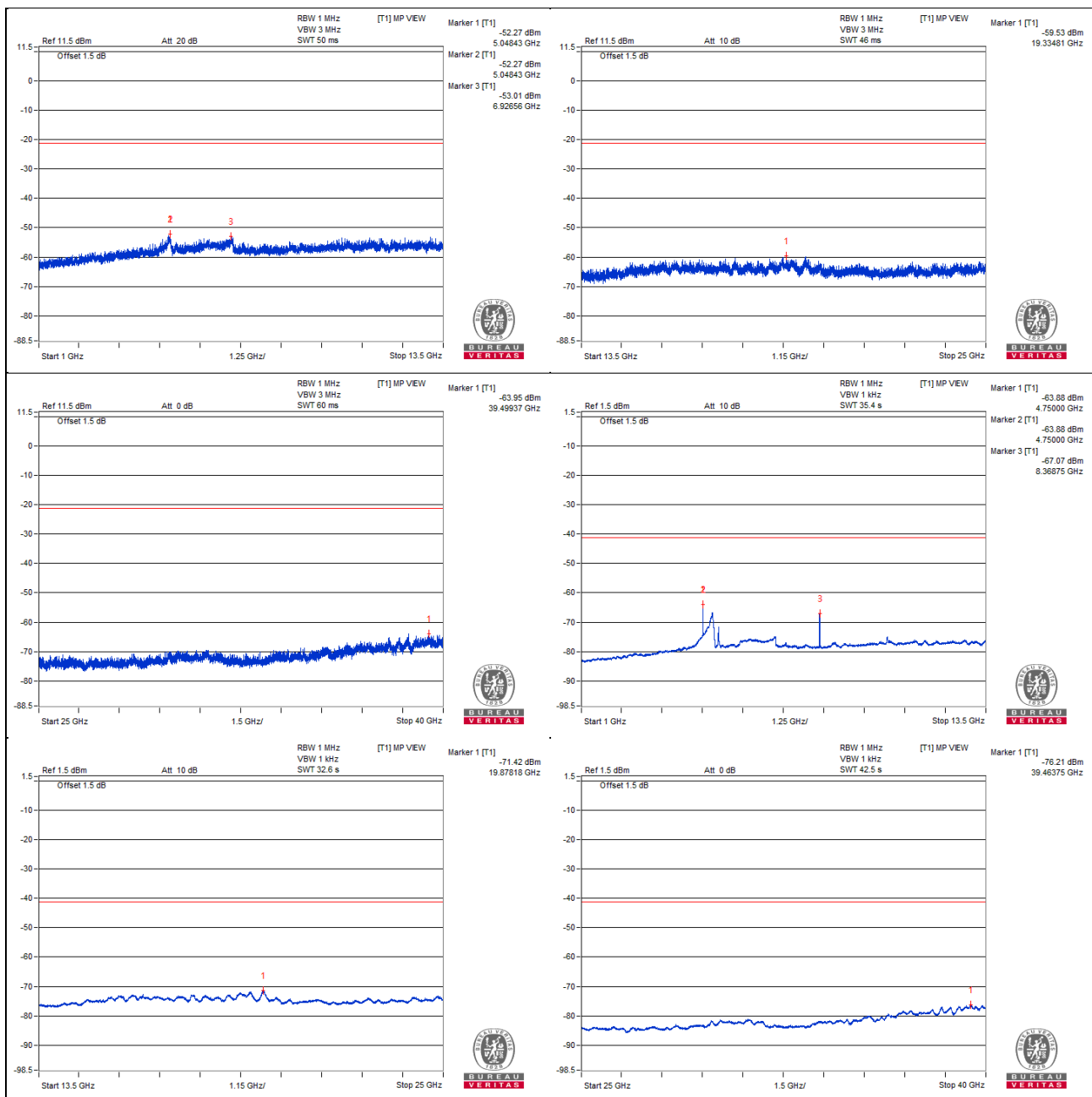
802.11ac (VHT40) - Channel 46

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	5048.43 PK	49.29	74	-24.71	-52.27	6.3	-45.97
2	5048.43 PK	49.29	74	-24.71	-52.27	6.3	-45.97
3	6926.56 PK	48.55	68.2	-19.65	-53.01	6.3	-46.71
4	19334.81 PK	42.03	74	-31.97	-59.53	6.3	-53.23
5	39499.37 PK	37.61	74	-36.39	-63.95	6.3	-57.65
6	4750 AV	37.68	54	-16.32	-63.88	6.3	-57.58
7	4750 AV	37.68	54	-16.32	-63.88	6.3	-57.58
8	8368.75 AV	34.49	54	-19.51	-67.07	6.3	-60.77
9	19878.18 AV	30.14	54	-23.86	-71.42	6.3	-65.12
10	39463.75 AV	25.35	54	-28.65	-76.21	6.3	-69.91

Note :

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

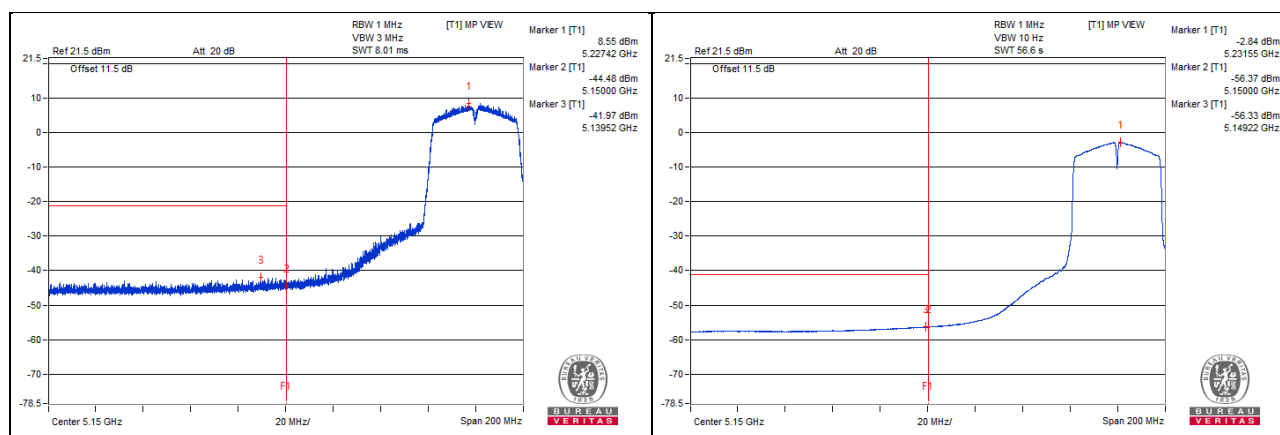


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5227.42 PK	109.41	*		8.55	5.6	14.15
2	5150 PK	56.38	74	-17.62	-44.48	5.6	-38.88
3	5139.52 PK	58.89	74	-15.11	-41.97	5.6	-36.37
4	5231.55 AV	98.02	*		-2.84	5.6	2.76
5	5150 AV	44.49	54	-9.51	-56.37	5.6	-50.77
6	5149.22 AV	44.53	54	-9.47	-56.33	5.6	-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.



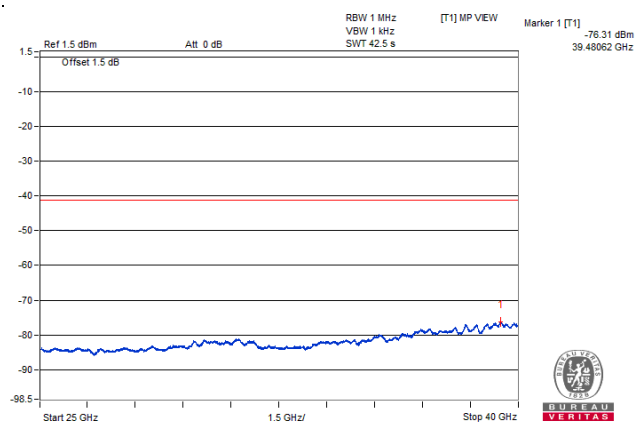
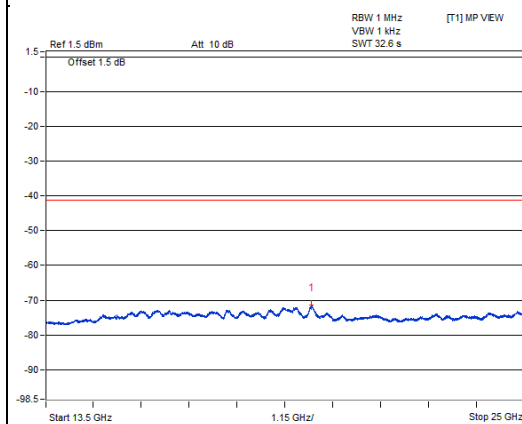
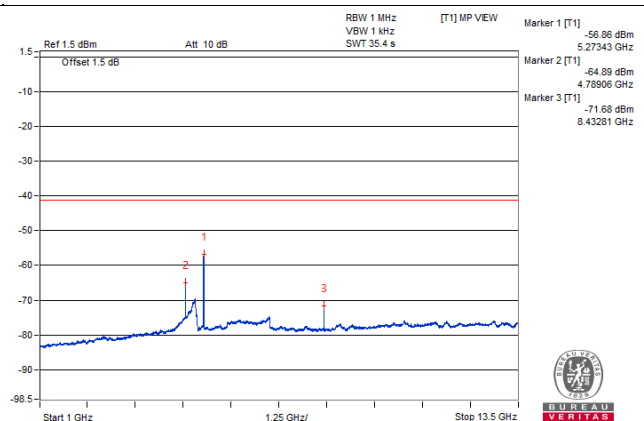
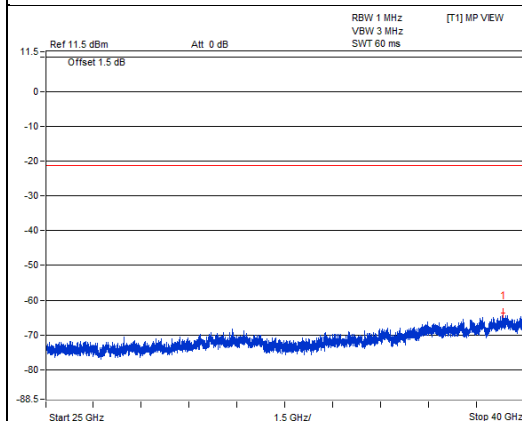
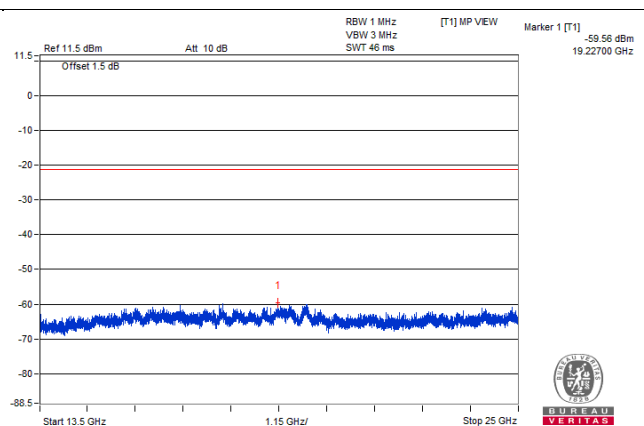
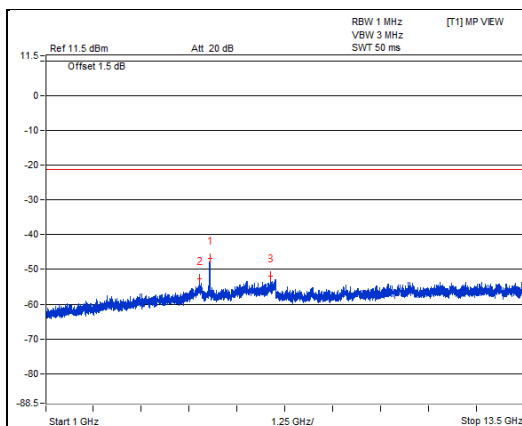
802.11ac (VHT40) - Channel 54

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	5273.43 PK	54.84	*		-46.72	6.3	-40.42
2	5001.56 PK	48.87	74	-25.13	-52.69	6.3	-46.39
3	6876.56 PK	49.71	68.2	-18.49	-51.85	6.3	-45.55
4	19227 PK	42	74	-32	-59.56	6.3	-53.26
5	39351.25 PK	37.83	74	-36.17	-63.73	6.3	-57.43
6	5273.43 AV	44.7	*		-56.86	6.3	-50.56
7	4789.06 AV	36.67	54	-17.33	-64.89	6.3	-58.59
8	8432.81 AV	29.88	54	-24.12	-71.68	6.3	-65.38
9	19881.06 AV	30.11	54	-23.89	-71.45	6.3	-65.15
10	39480.62 AV	25.25	54	-28.75	-76.31	6.3	-70.01

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.

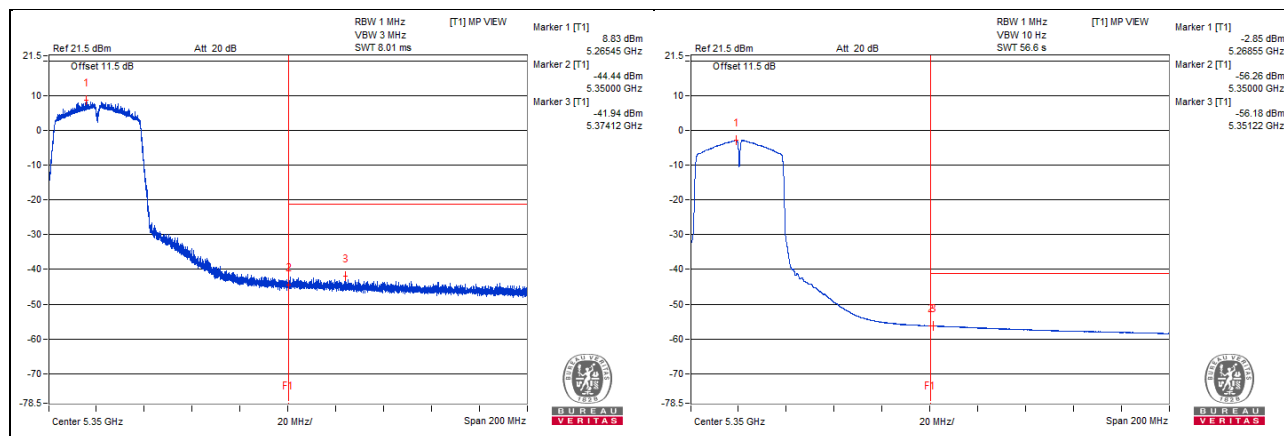


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5265.45 PK	110.06	*		8.83	5.97	14.8
2	5350 PK	56.79	74	-17.21	-44.44	5.97	-38.47
3	5374.12 PK	59.29	74	-14.71	-41.94	5.97	-35.97
4	5268.55 AV	98.38	*		-2.85	5.97	3.12
5	5350 AV	44.97	54	-9.03	-56.26	5.97	-50.29
6	5351.22 AV	45.05	54	-8.95	-56.18	5.97	-50.21

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.



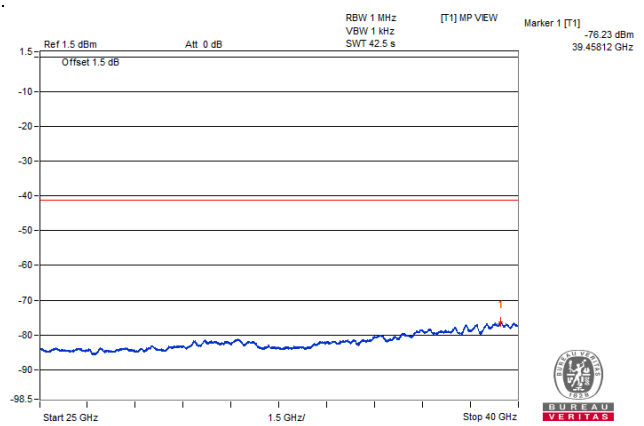
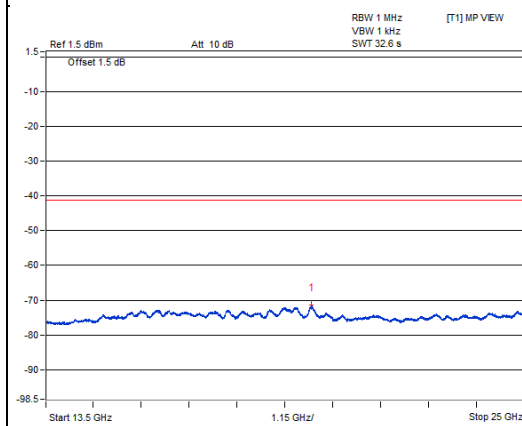
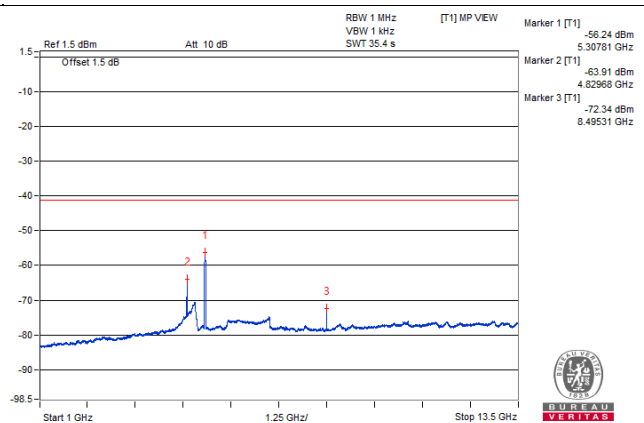
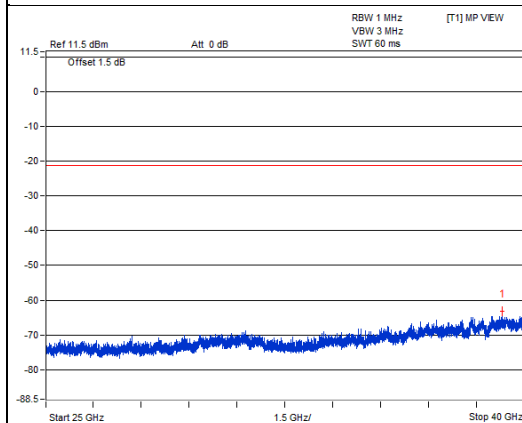
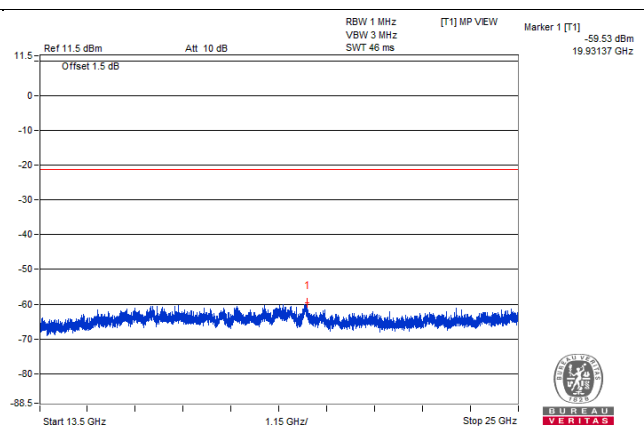
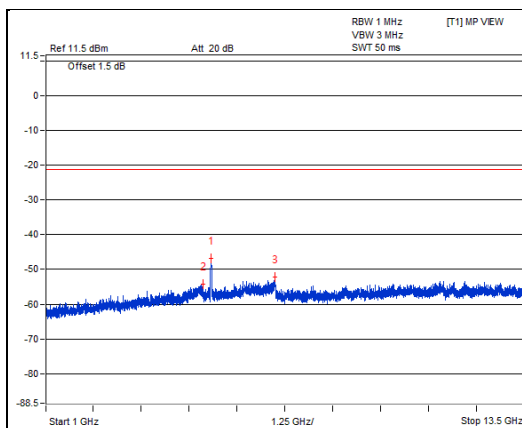
802.11ac (VHT40) - Channel 62

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	5307.81 PK	54.79	*		-46.77	6.3	-40.47
2	5098.43 PK	47.35	74	-26.65	-54.21	6.3	-47.91
3	6987.5 PK	49.45	68.2	-18.75	-52.11	6.3	-45.81
4	19931.37 PK	42.03	74	-31.97	-59.53	6.3	-53.23
5	39317.5 PK	38.5	74	-35.5	-63.06	6.3	-56.76
6	5307.81 AV	45.32	*		-56.24	6.3	-49.94
7	4829.68 AV	37.65	54	-16.35	-63.91	6.3	-57.61
8	8495.31 AV	29.22	54	-24.78	-72.34	6.3	-66.04
9	19889.68 AV	30.15	54	-23.85	-71.41	6.3	-65.11
10	39458.12 AV	25.33	54	-28.67	-76.23	6.3	-69.93

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.

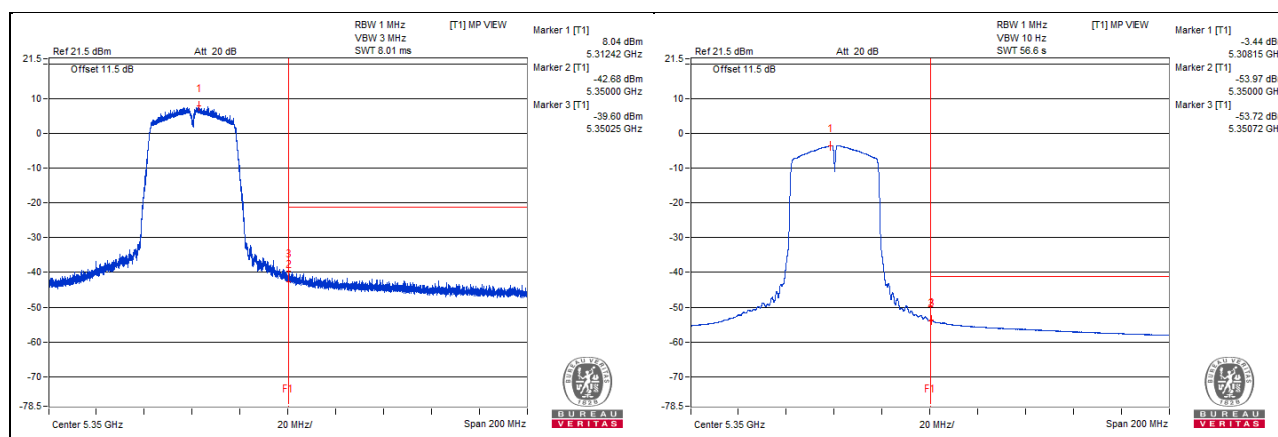


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5312.42 PK	109.27	*		8.04	5.97	14.01
2	5350 PK	58.55	74	-15.45	-42.68	5.97	-36.71
3	5350.25 PK	61.63	74	-12.37	-39.6	5.97	-33.63
4	5308.15 AV	97.79	*		-3.44	5.97	2.53
5	5350 AV	47.26	54	-6.74	-53.97	5.97	-48
6	5350.72 AV	47.51	54	-6.49	-53.72	5.97	-47.75

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.



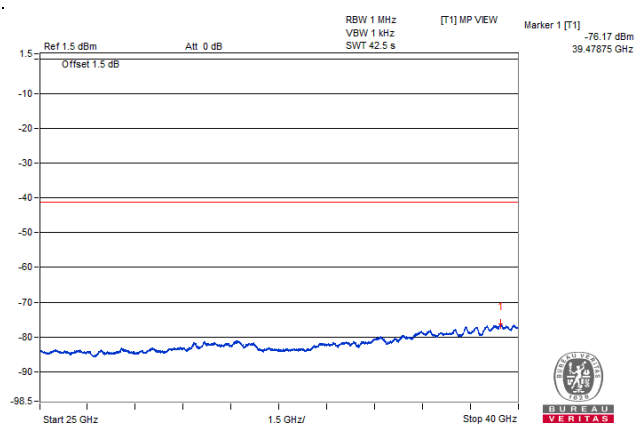
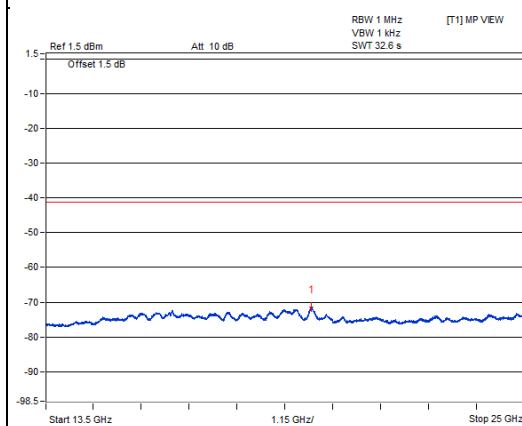
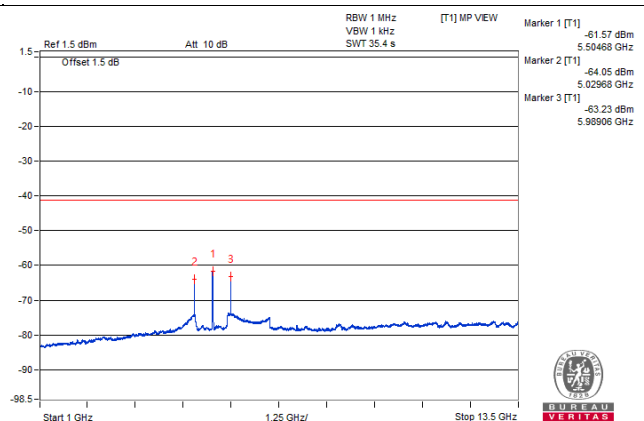
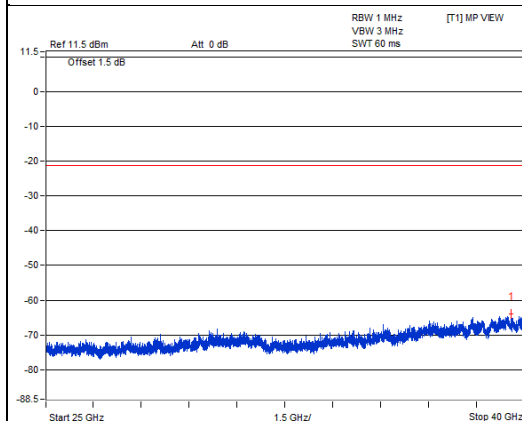
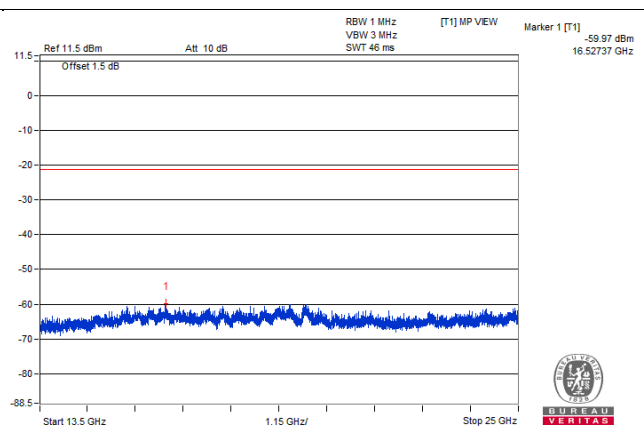
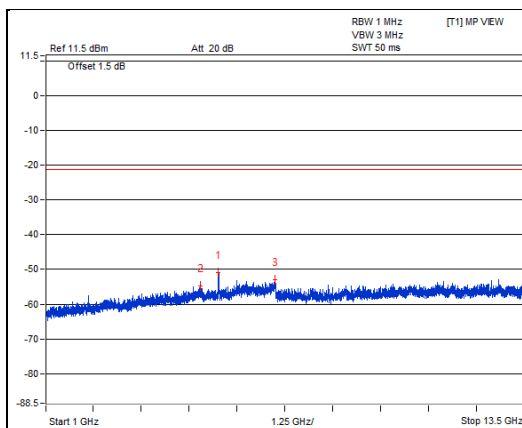
802.11ac (VHT40) - Channel 102

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	5493.75 PK	50.78	*		-50.78	6.3	-44.48
2	5029.68 PK	46.88	74	-27.12	-54.68	6.3	-48.38
3	6981.25 PK	48.6	68.2	-19.6	-52.96	6.3	-46.66
4	16527.37 PK	41.59	68.2	-26.61	-59.97	6.3	-53.67
5	39610 PK	37.59	74	-36.41	-63.97	6.3	-57.67
6	5504.68 AV	39.99	*		-61.57	6.3	-55.27
7	5029.68 AV	37.51	54	-16.49	-64.05	6.3	-57.75
8	5989.06 AV	38.33	#		-63.23	6.3	-56.93
9	19879.62 AV	30.17	54	-23.83	-71.39	6.3	-65.09
10	39478.75 AV	25.39	54	-28.61	-76.17	6.3	-69.87

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.

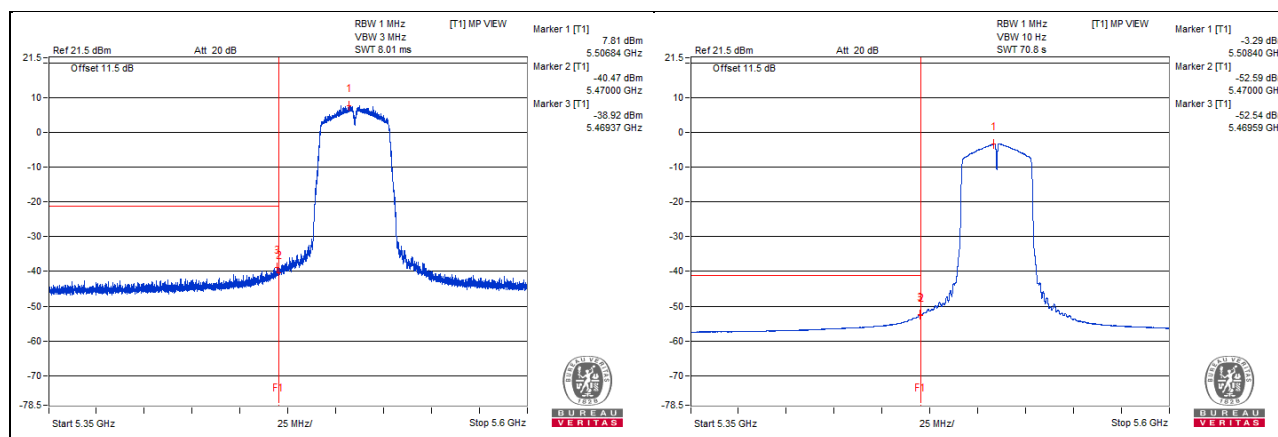


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5506.84 PK	109	*		7.81	5.93	13.74
2	5470 PK	60.72	68.2	-7.48	-40.47	5.93	-34.54
3	5469.37 PK	62.27	68.2	-5.93	-38.92	5.93	-32.99
4	5508.4 AV	97.9	*		-3.29	5.93	2.64
5	5470 AV	48.6	#		-52.59	5.93	-46.66
6	5469.59 AV	48.65	#		-52.54	5.93	-46.61

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.



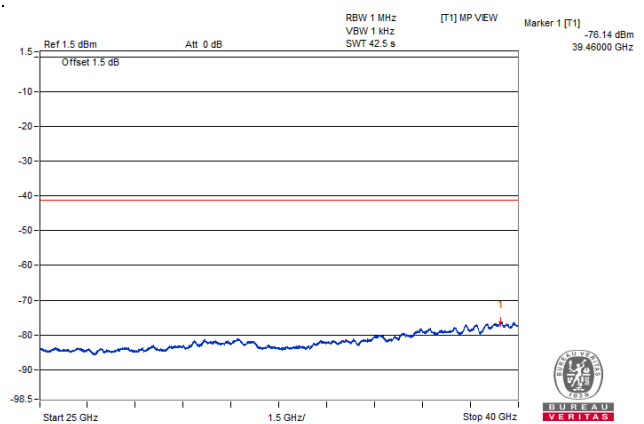
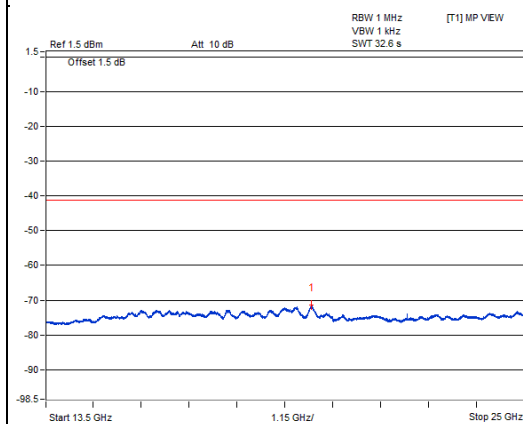
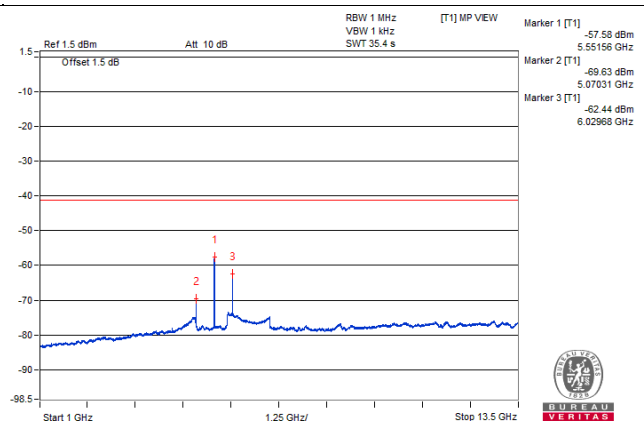
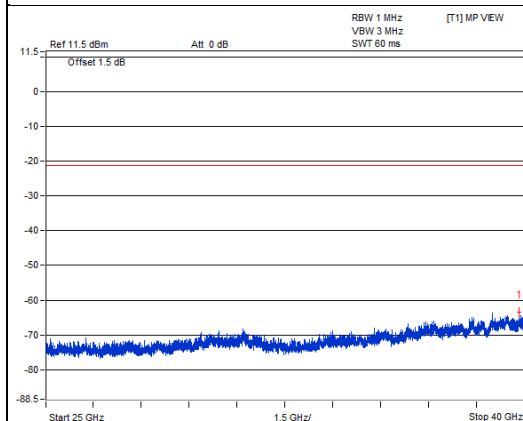
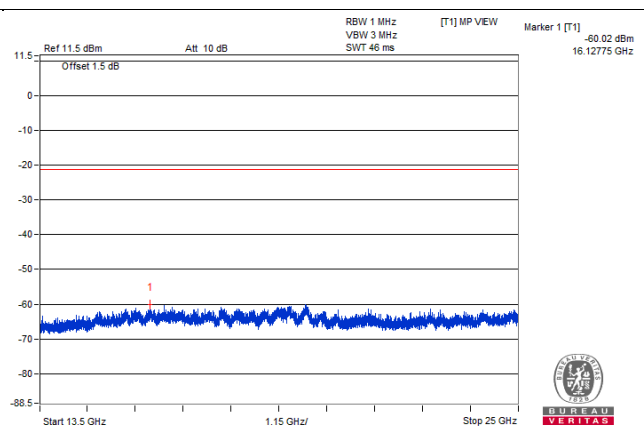
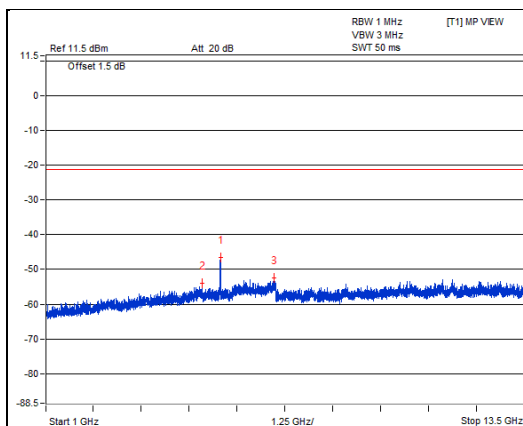
802.11ac (VHT40) - Channel 110

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	5554.68 PK	54.92	*		-46.64	6.3	-40.34
2	5064.06 PK	47.69	74	-26.31	-53.87	6.3	-47.57
3	6950 PK	49.04	68.2	-19.16	-52.52	6.3	-46.22
4	16127.75 PK	41.54	74	-32.46	-60.02	6.3	-53.72
5	39857.5 PK	38.2	74	-35.8	-63.36	6.3	-57.06
6	5551.56 AV	43.98	*		-57.58	6.3	-51.28
7	5070.31 AV	31.93	54	-22.07	-69.63	6.3	-63.33
8	6029.68 AV	39.12	#		-62.44	6.3	-56.14
9	19886.81 AV	30.2	54	-23.8	-71.36	6.3	-65.06
10	39460 AV	25.42	54	-28.58	-76.14	6.3	-69.84

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.

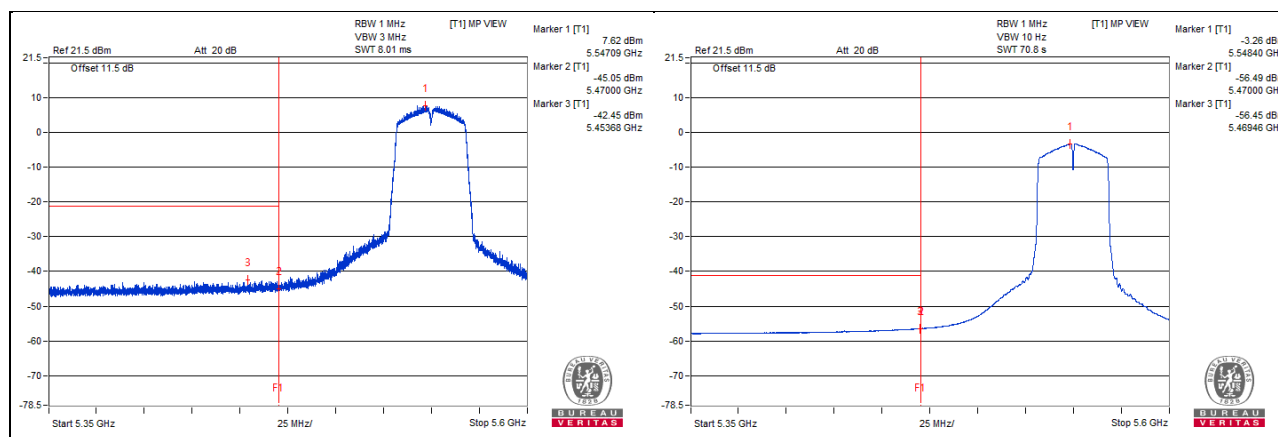


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5547.09 PK	108.81	*		7.62	5.93	13.55
2	5470 PK	56.14	68.2	-12.06	-45.05	5.93	-39.12
3	5453.68 PK	58.74	74	-15.26	-42.45	5.93	-36.52
4	5548.4 AV	97.93	*		-3.26	5.93	2.67
5	5470 AV	44.7	#		-56.49	5.93	-50.56
6	5469.46 AV	44.74	#		-56.45	5.93	-50.52

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.



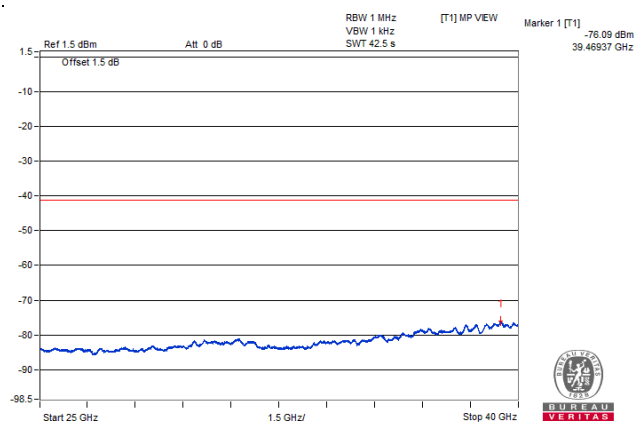
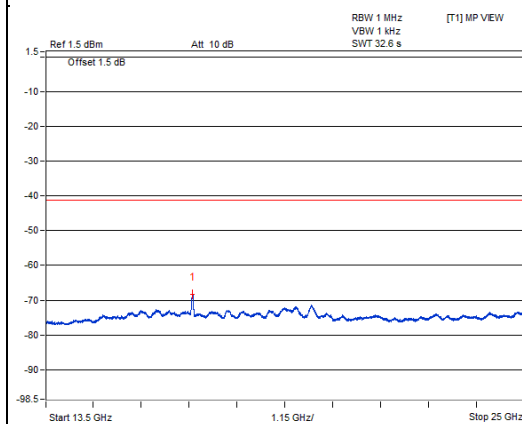
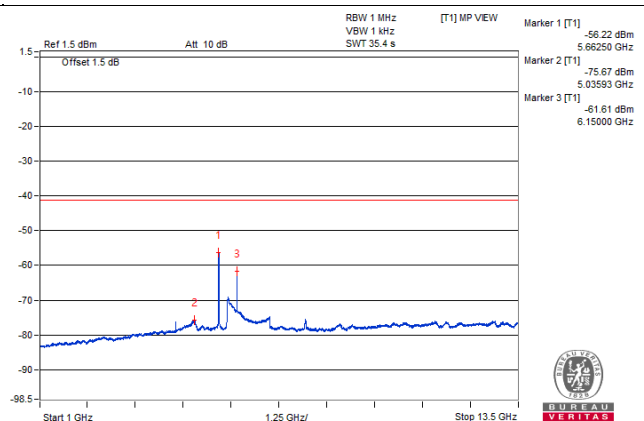
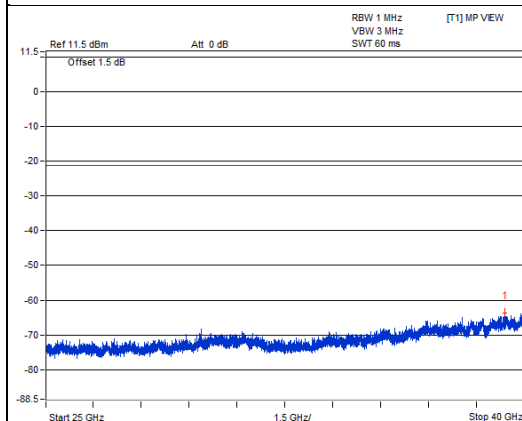
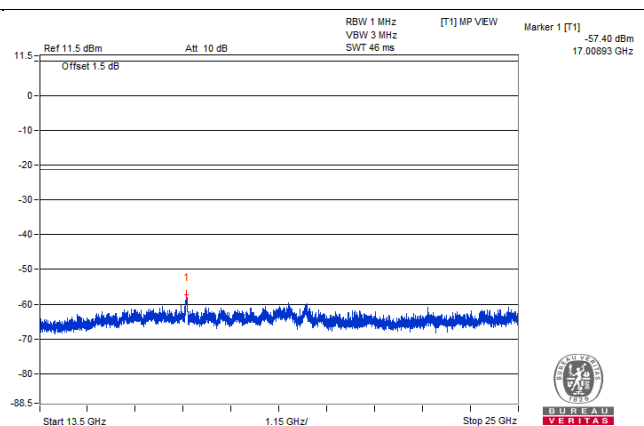
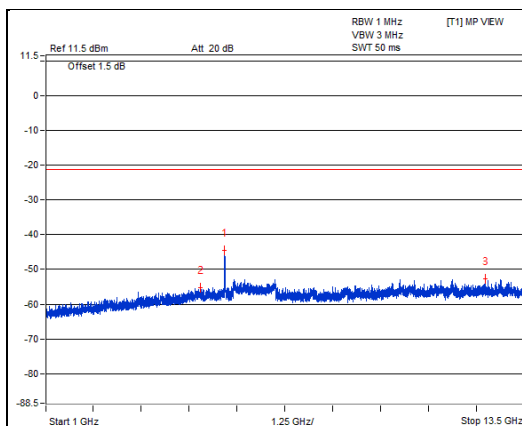
802.11ac (VHT40) - Channel 134

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	5664.06 PK	57.03	*		-44.53	6.3	-38.23
2	5023.43 PK	46.26	74	-27.74	-55.3	6.3	-49
3	12501.56 PK	48.78	74	-25.22	-52.78	6.3	-46.48
4	17008.93 PK	44.16	68.2	-24.04	-57.4	6.3	-51.1
5	39418.75 PK	37.77	74	-36.23	-63.79	6.3	-57.49
6	5662.5 AV	45.34	*		-56.22	6.3	-49.92
7	5035.93 AV	25.89	54	-28.11	-75.67	6.3	-69.37
8	6150 AV	39.95	#		-61.61	6.3	-55.31
9	17014.68 AV	33.3	#		-68.26	6.3	-61.96
10	39469.37 AV	25.47	54	-28.53	-76.09	6.3	-69.79

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.

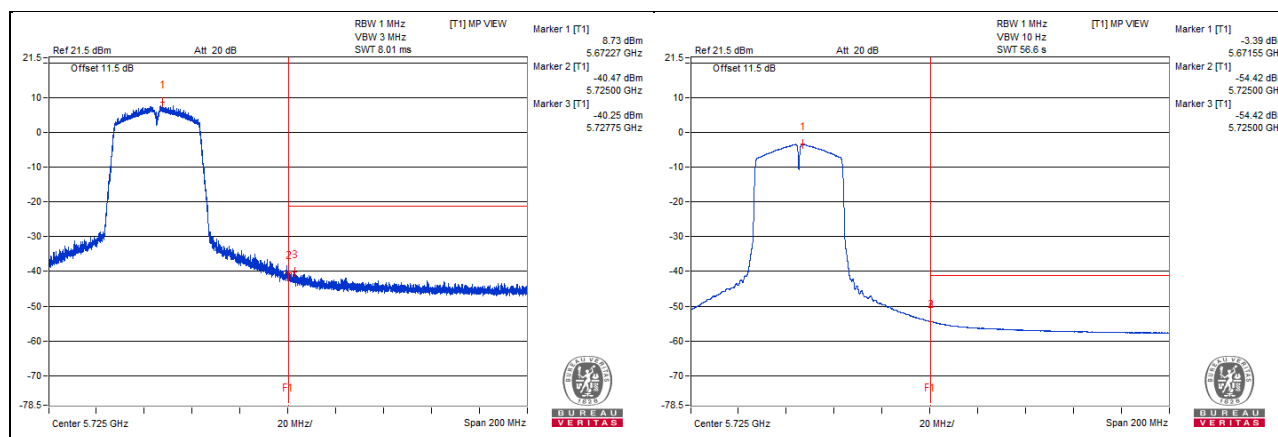


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5672.27 PK	109.92	*		8.73	5.93	14.66
2	5725 PK	60.72	68.2	-7.48	-40.47	5.93	-34.54
3	5727.75 PK	60.94	68.2	-7.26	-40.25	5.93	-34.32
4	5671.55 AV	97.8	*		-3.39	5.93	2.54
5	5725 AV	46.77	#		-54.42	5.93	-48.49
6	5725 AV	46.77	#		-54.42	5.93	-48.49

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.



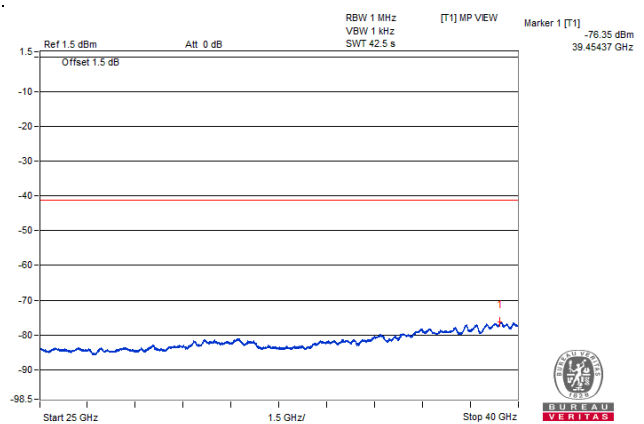
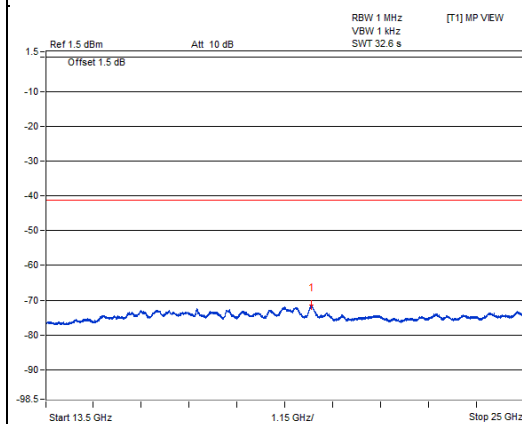
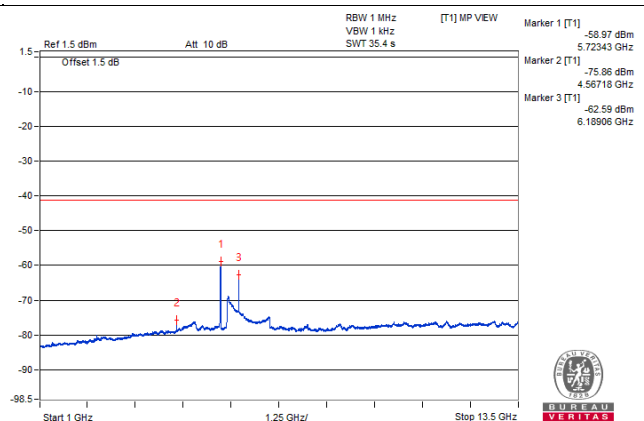
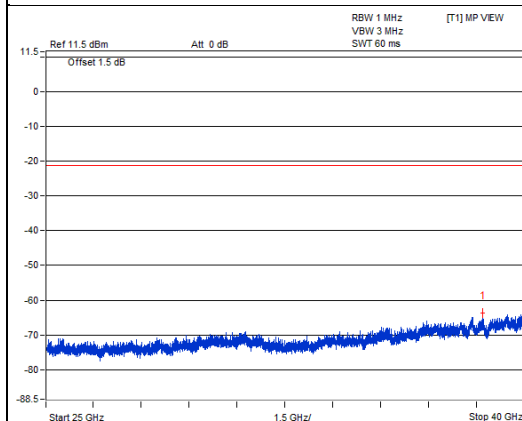
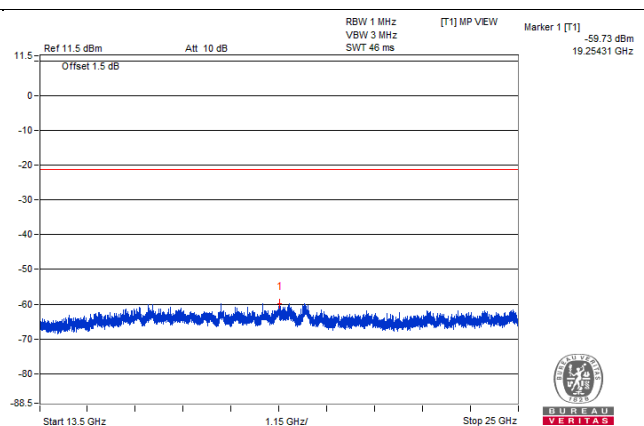
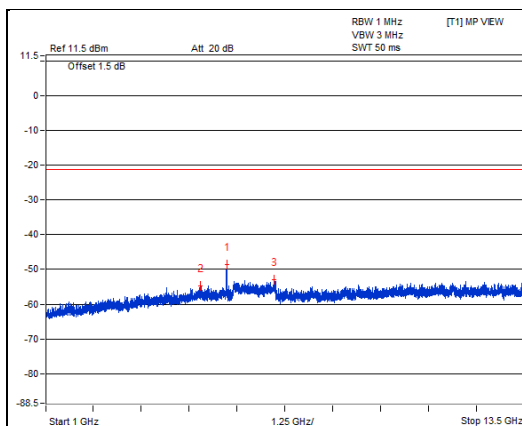
802.11ac (VHT40) - Channel 142

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	5723.43 PK	53.04	*		-48.52	6.3	-42.22
2	5035.93 PK	46.74	74	-27.26	-54.82	6.3	-48.52
3	6953.12 PK	48.52	68.2	-19.68	-53.04	6.3	-46.74
4	19254.31 PK	41.83	74	-32.17	-59.73	6.3	-53.43
5	38728.75 PK	37.81	74	-36.19	-63.75	6.3	-57.45
6	5723.43 AV	42.59	*		-58.97	6.3	-52.67
7	4567.18 AV	25.7	54	-28.3	-75.86	6.3	-69.56
8	6189.06 AV	38.97	#		-62.59	6.3	-56.29
9	19891.12 AV	30.12	54	-23.88	-71.44	6.3	-65.14
10	39454.37 AV	25.21	54	-28.79	-76.35	6.3	-70.05

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.
3. # : Non-restricted frequency, no limit for average emission.

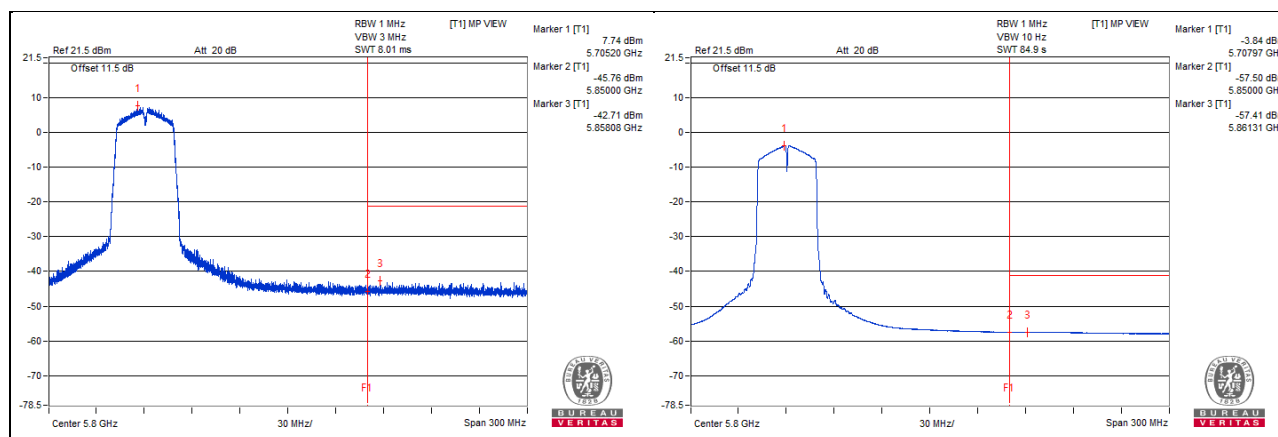


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5705.2 PK	109.3	*		7.74	6.3	14.04
2	5850 PK	55.8	68.2	-12.4	-45.76	6.3	-39.46
3	5858.08 PK	58.85	68.2	-9.35	-42.71	6.3	-36.41
4	5707.97 AV	97.72	*		-3.84	6.3	2.46
5	5850 AV	44.06	#		-57.5	6.3	-51.2
6	5861.31 AV	44.15	#		-57.41	6.3	-51.11

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.



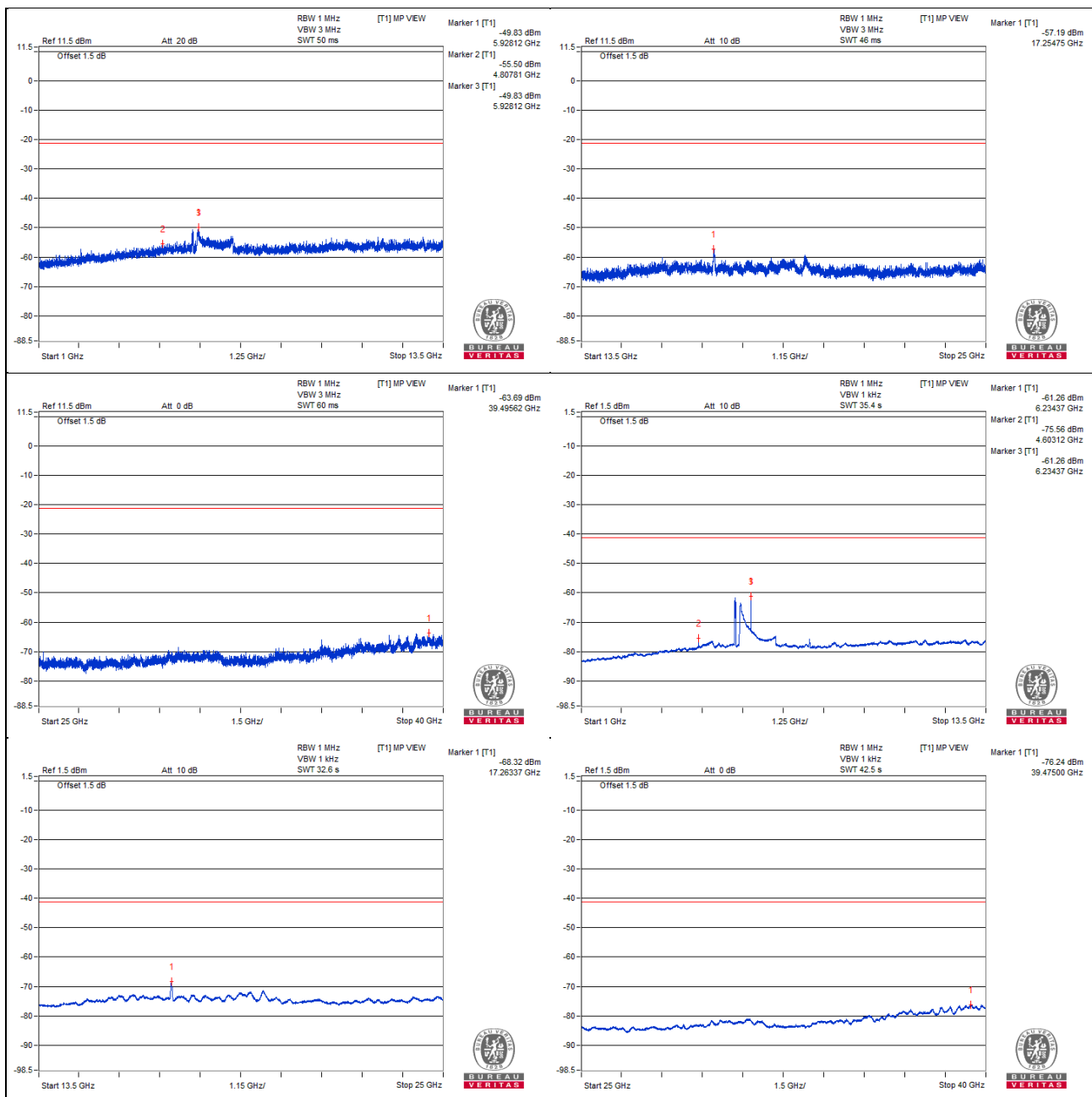
802.11ac (VHT40) – Channel 151

Conducted spurious emission table

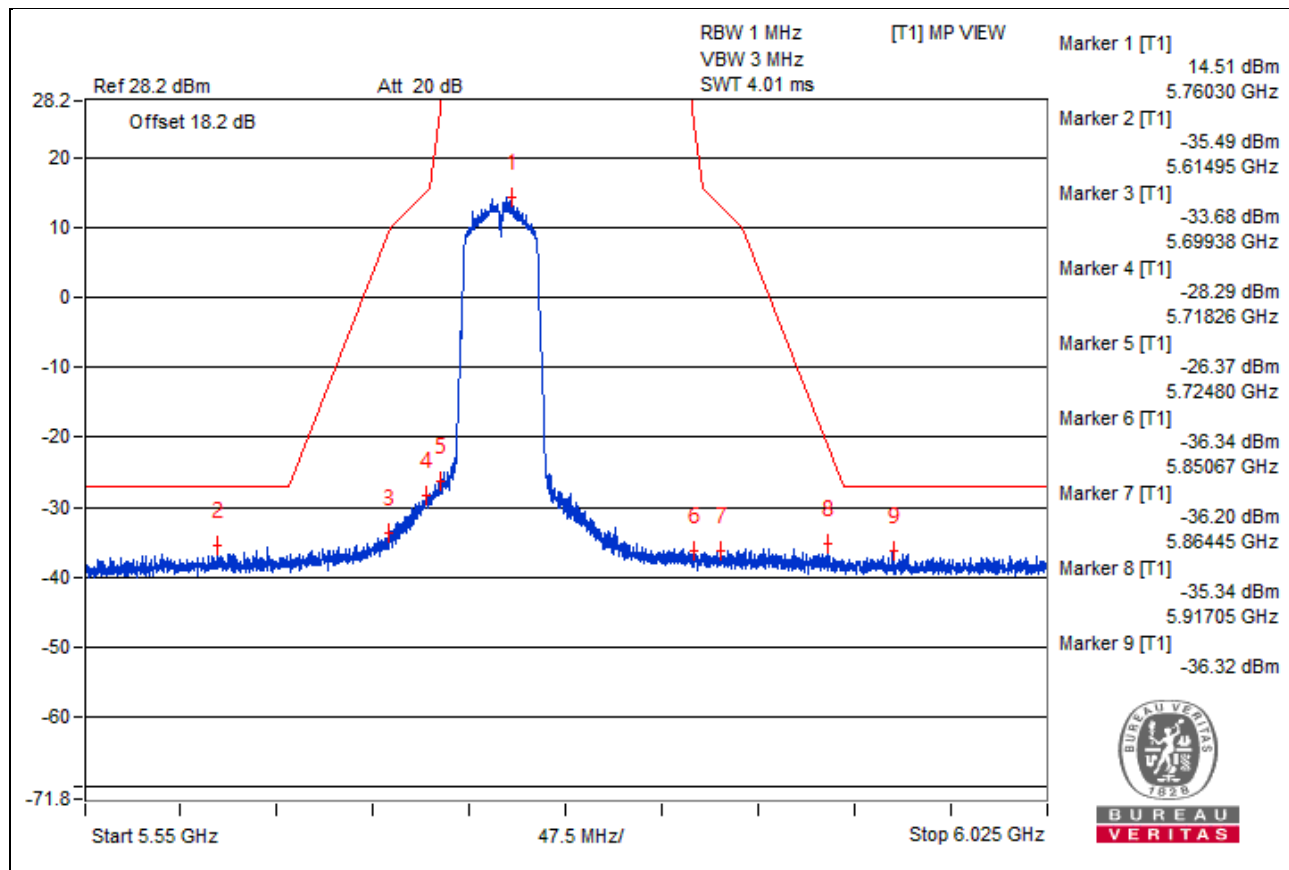
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5928.12 PK	51.73	68.2	-16.47	-49.83	6.3	-43.53
2	4807.81 PK	46.06	74	-27.94	-55.5	6.3	-49.2
3	5928.12 PK	51.73	68.2	-16.47	-49.83	6.3	-43.53
4	17254.75 PK	44.37	68.2	-23.83	-57.19	6.3	-50.89
5	39495.62 PK	37.87	74	-36.13	-63.69	6.3	-57.39
6	6234.37 AV	40.3	#		-61.26	6.3	-54.96
7	4603.12 AV	26	54	-28	-75.56	6.3	-69.26
8	6234.37 AV	40.3	#		-61.26	6.3	-54.96
9	17263.37 AV	33.24	#		-68.32	6.3	-62.02
10	39475 AV	25.32	54	-28.68	-76.24	6.3	-69.94

Note :

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



Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.9 dB) and antenna gain (6.3 dBi).
2. The test results were EIRP.

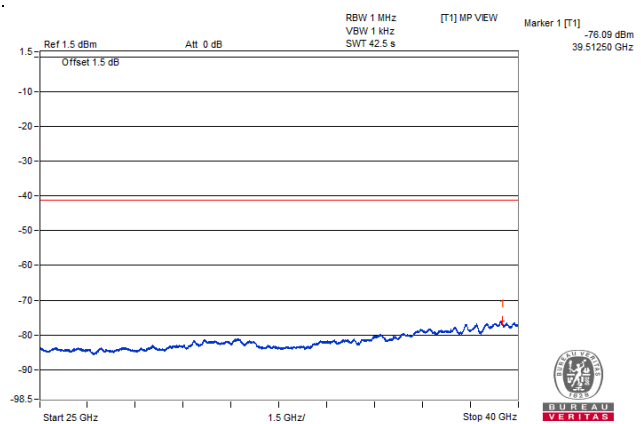
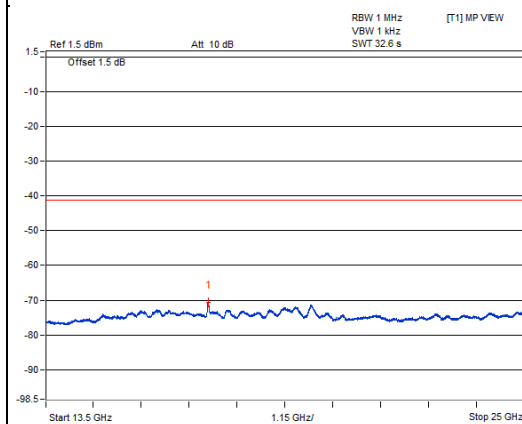
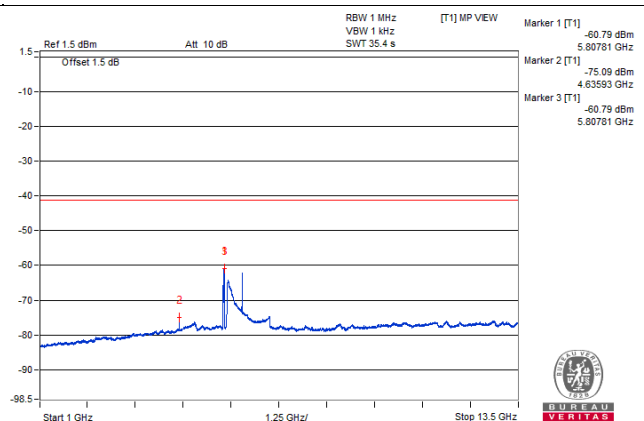
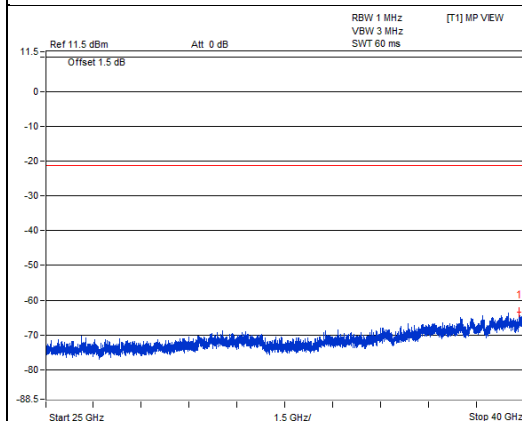
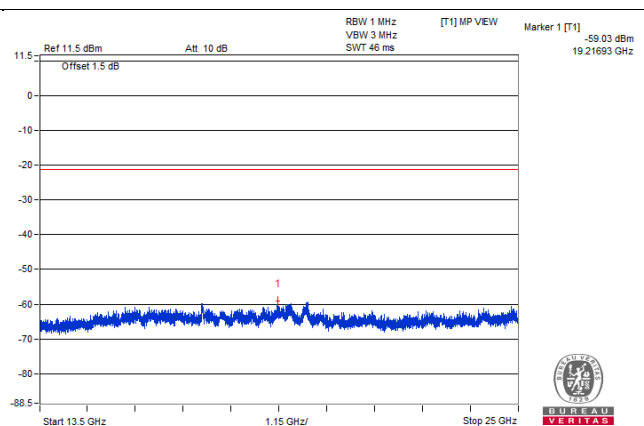
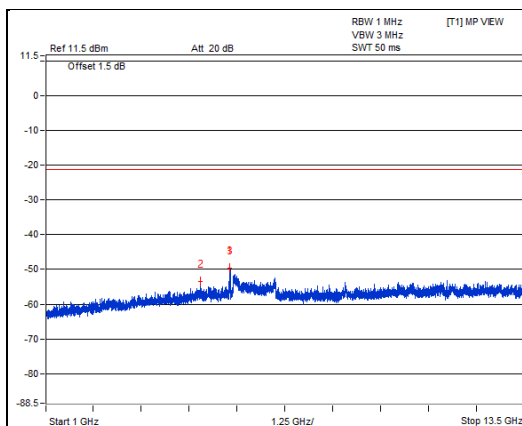
802.11ac (VHT40) – Channel 159

Conducted spurious emission table

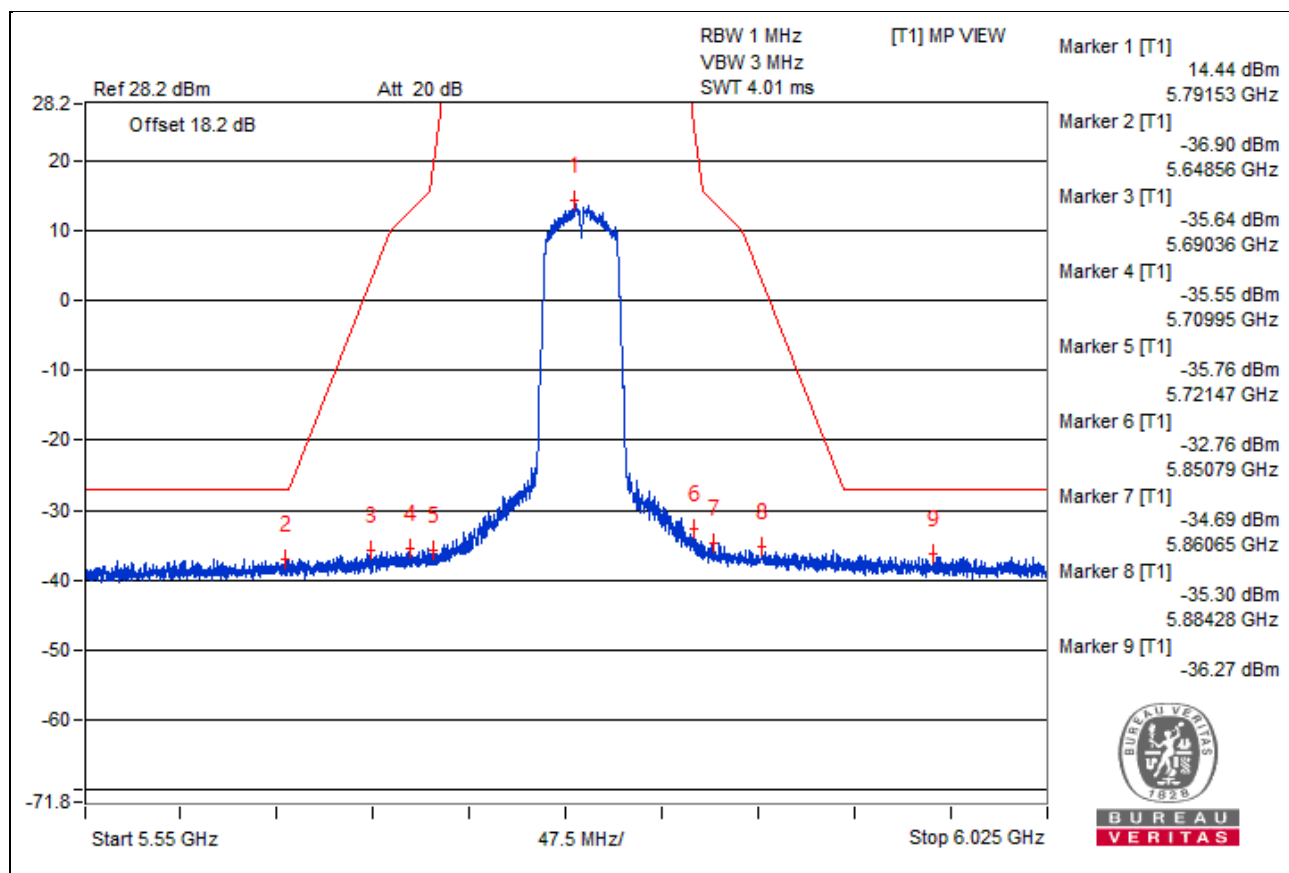
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5804.68 PK	51.81	*		-49.75	6.3	-43.45
2	5037.5 PK	47.98	74	-26.02	-53.58	6.3	-47.28
3	5804.68 PK	51.81	*		-49.75	6.3	-43.45
4	19216.93 PK	42.53	74	-31.47	-59.03	6.3	-52.73
5	39859.37 PK	38.07	74	-35.93	-63.49	6.3	-57.19
6	5807.81 AV	40.77	*		-60.79	6.3	-54.49
7	4635.93 AV	26.47	54	-27.53	-75.09	6.3	-68.79
8	5807.81 AV	40.77	*		-60.79	6.3	-54.49
9	17389.87 AV	30.85	#		-70.71	6.3	-64.41
10	39512.5 AV	25.47	54	-28.53	-76.09	6.3	-69.79

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 (1.9 dB) and antenna gain (6.3 dBi).
2. The test results were EIRP.

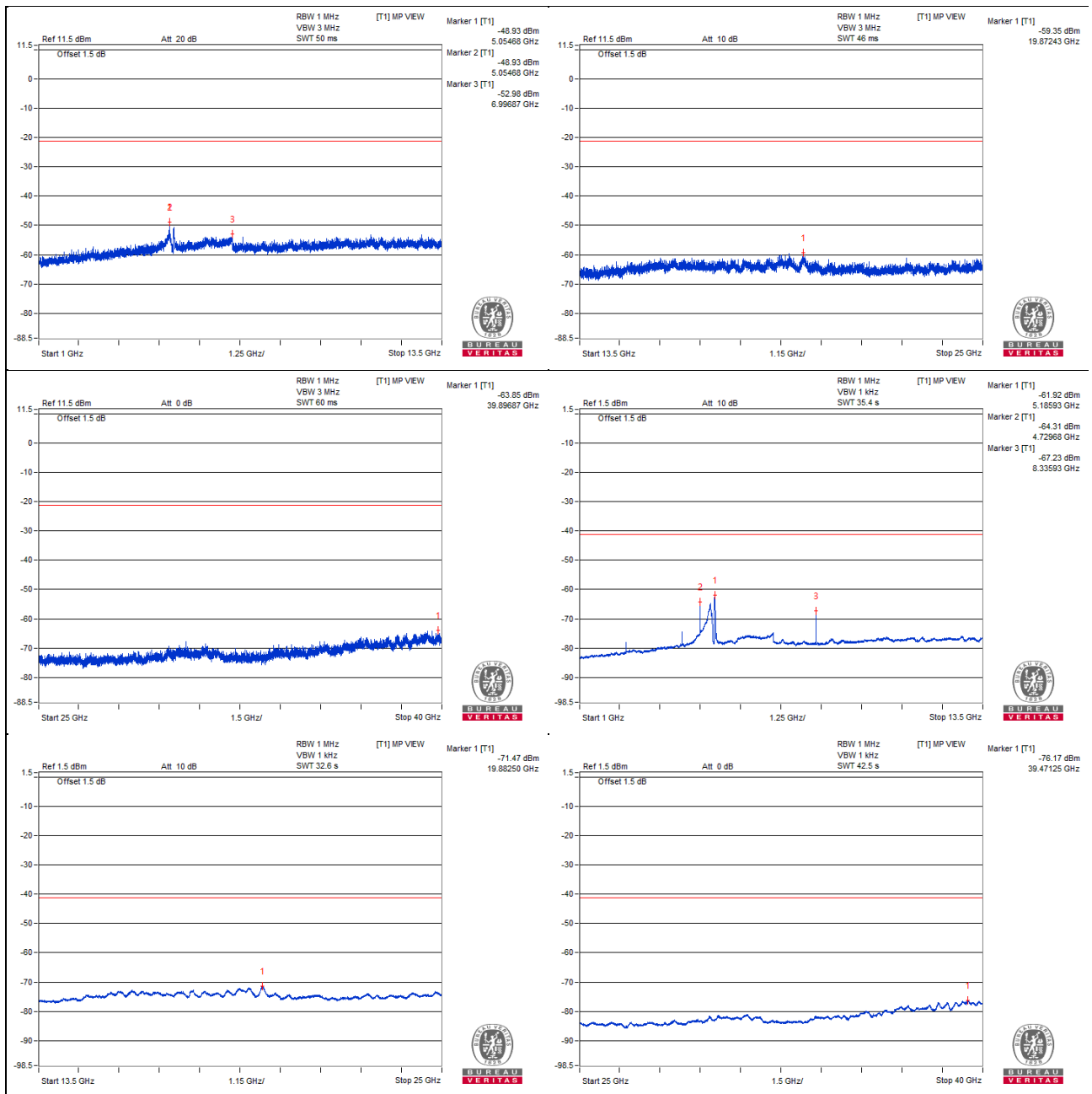
802.11ac (VHT80) - Channel 42

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	5054.68 PK	52.63	74	-21.37	-48.93	6.3	-42.63
2	5054.68 PK	52.63	74	-21.37	-48.93	6.3	-42.63
3	6996.87 PK	48.58	68.2	-19.62	-52.98	6.3	-46.68
4	19872.43 PK	42.21	74	-31.79	-59.35	6.3	-53.05
5	39896.87 PK	37.71	74	-36.29	-63.85	6.3	-57.55
6	5185.93 AV	39.64	*		-61.92	6.3	-55.62
7	4729.68 AV	37.25	54	-16.75	-64.31	6.3	-58.01
8	8335.93 AV	34.33	54	-19.67	-67.23	6.3	-60.93
9	19882.5 AV	30.09	54	-23.91	-71.47	6.3	-65.17
10	39471.25 AV	25.39	54	-28.61	-76.17	6.3	-69.87

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.

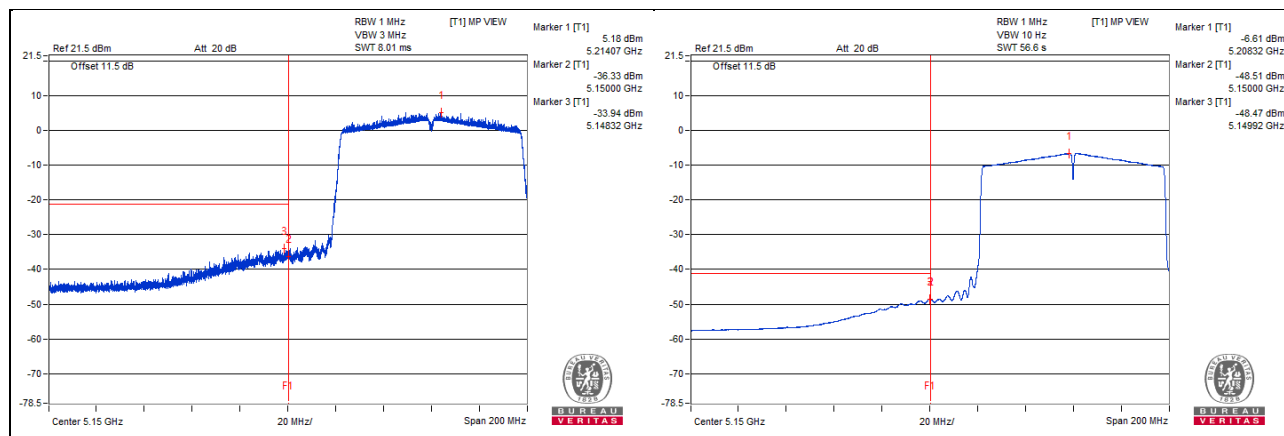


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5214.07 PK	106.04	*		5.18	5.6	10.78
2	5150 PK	64.53	74	-9.47	-36.33	5.6	-30.73
3	5148.32 PK	66.92	74	-7.08	-33.94	5.6	-28.34
4	5208.32 AV	94.25	*		-6.61	5.6	-1.01
5	5150 AV	52.35	54	-1.65	-48.51	5.6	-42.91
6	5149.92 AV	52.39	54	-1.61	-48.47	5.6	-42.87

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.



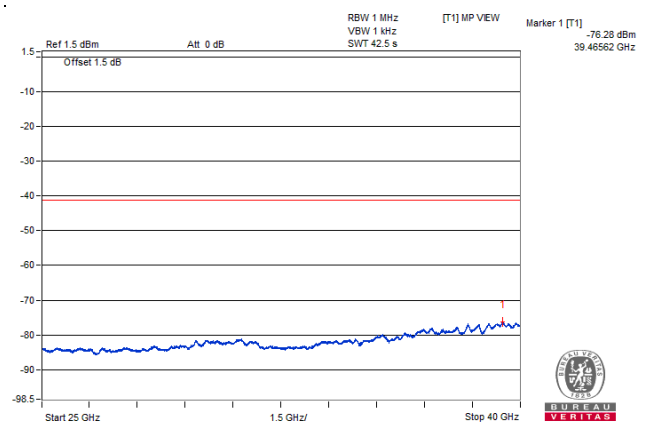
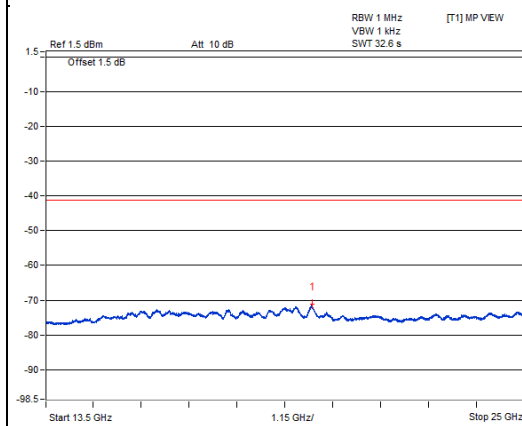
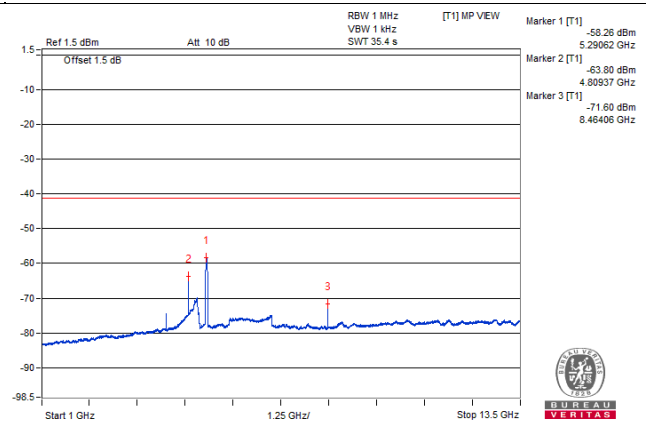
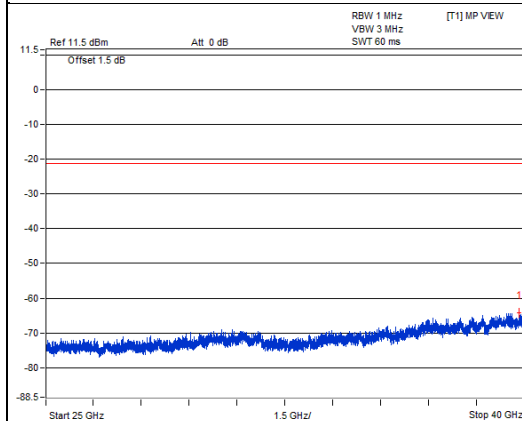
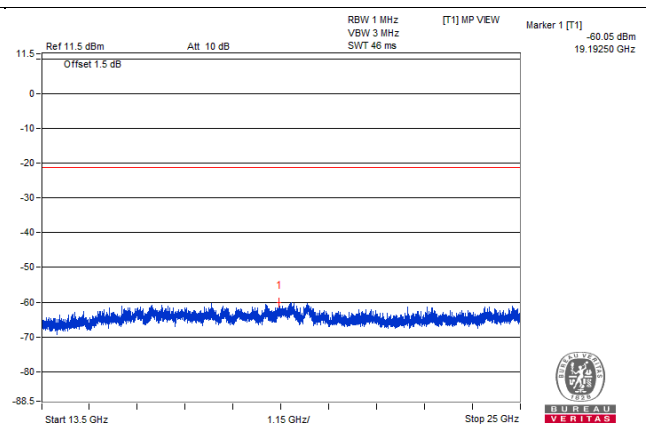
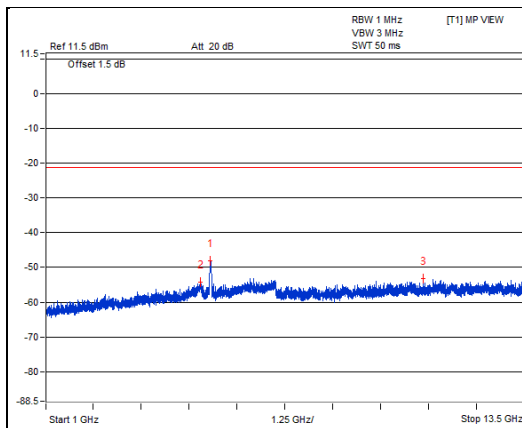
802.11ac (VHT80) - Channel 58

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	5292.18 PK	53.38	*		-48.18	6.3	-41.88
2	5018.75 PK	47.34	74	-26.66	-54.22	6.3	-47.92
3	10862.5 PK	48.47	74	-25.53	-53.09	6.3	-46.79
4	19192.5 PK	41.51	74	-32.49	-60.05	6.3	-53.75
5	39851.87 PK	37.23	74	-36.77	-64.33	6.3	-58.03
6	5290.62 AV	43.3	*		-58.26	6.3	-51.96
7	4809.37 AV	37.76	54	-16.24	-63.8	6.3	-57.5
8	8464.06 AV	29.96	54	-24.04	-71.6	6.3	-65.3
9	19902.62 AV	30.34	54	-23.66	-71.22	6.3	-64.92
10	39465.62 AV	25.28	54	-28.72	-76.28	6.3	-69.98

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.

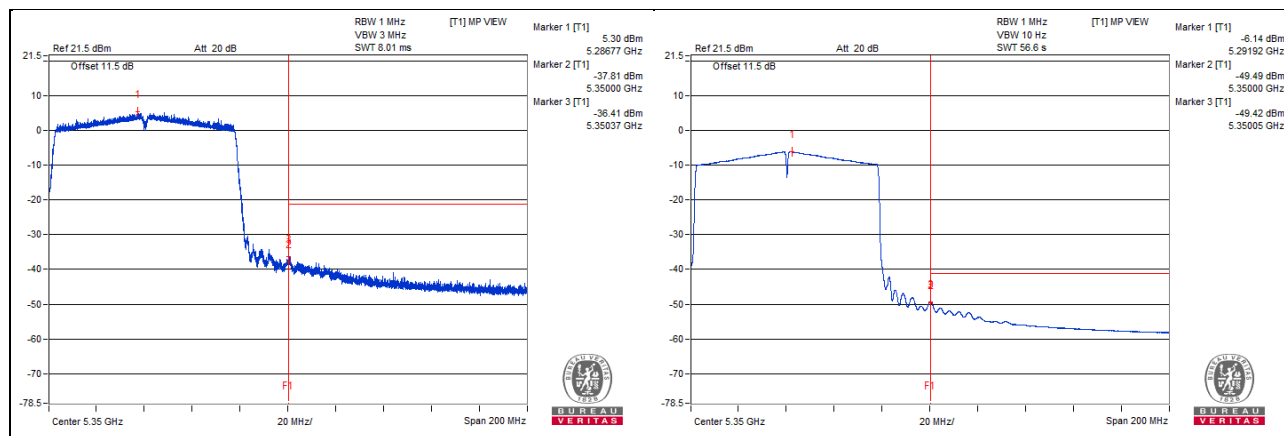


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5286.77 PK	106.53	*		5.3	5.97	11.27
2	5350 PK	63.42	74	-10.58	-37.81	5.97	-31.84
3	5350.37 PK	64.82	74	-9.18	-36.41	5.97	-30.44
4	5291.92 AV	95.09	*		-6.14	5.97	-0.17
5	5350 AV	51.74	54	-2.26	-49.49	5.97	-43.52
6	5350.05 AV	51.81	54	-2.19	-49.42	5.97	-43.45

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.



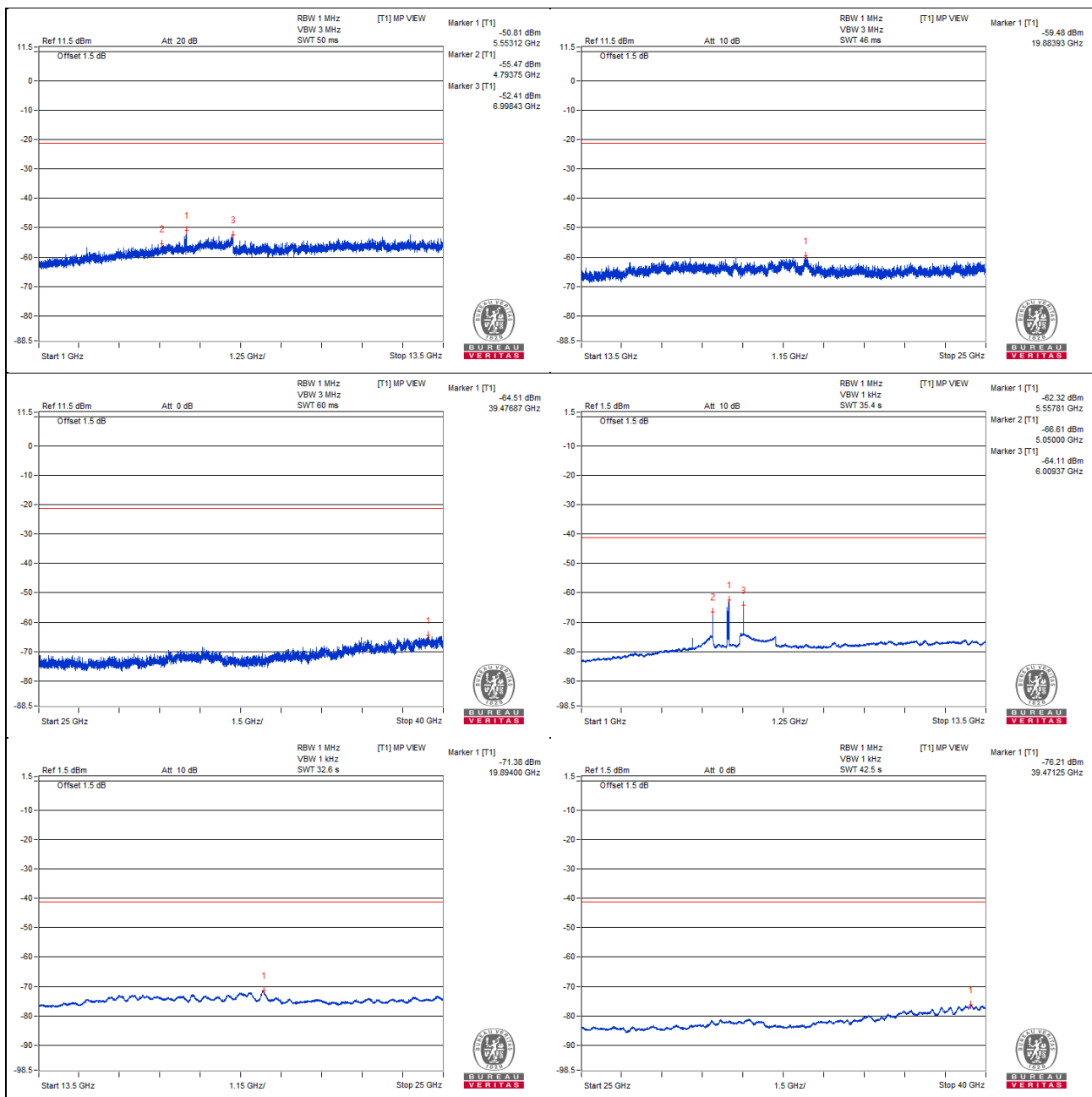
802.11ac (VHT80) - Channel 106

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	5553.12 PK	50.75	*		-50.81	6.3	-44.51
2	4793.75 PK	46.09	74	-27.91	-55.47	6.3	-49.17
3	6998.43 PK	49.15	68.2	-19.05	-52.41	6.3	-46.11
4	19883.93 PK	42.08	74	-31.92	-59.48	6.3	-53.18
5	39476.87 PK	37.05	74	-36.95	-64.51	6.3	-58.21
6	5557.81 AV	39.24	*		-62.32	6.3	-56.02
7	5050 AV	34.95	54	-19.05	-66.61	6.3	-60.31
8	6009.37 AV	37.45	#		-64.11	6.3	-57.81
9	19894 AV	30.18	54	-23.82	-71.38	6.3	-65.08
10	39471.25 AV	25.35	54	-28.65	-76.21	6.3	-69.91

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.

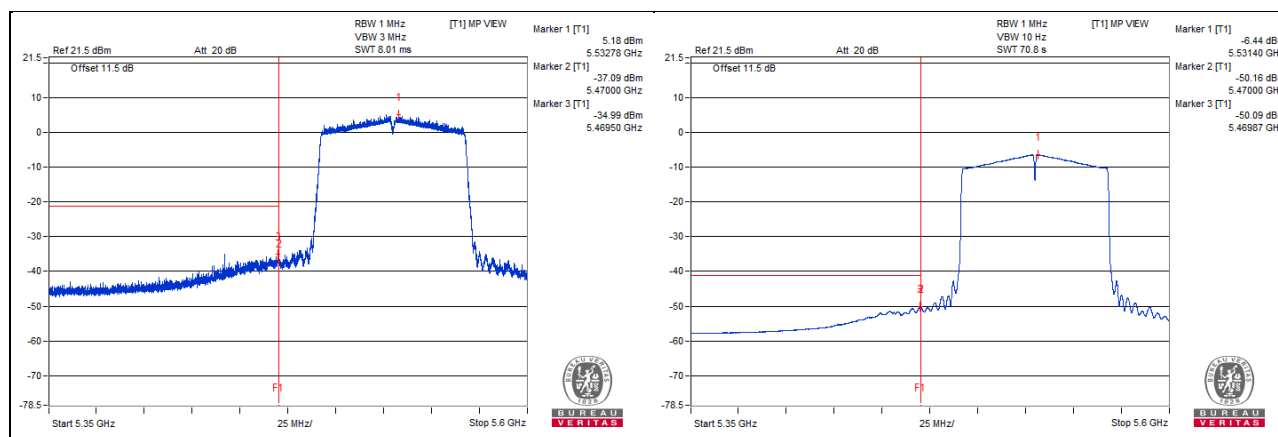


Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5532.78 PK	106.37	*		5.18	5.93	11.11
2	5470 PK	64.1	68.2	-4.1	-37.09	5.93	-31.16
3	5469.5 PK	66.2	68.2	-2	-34.99	5.93	-29.06
4	5531.4 AV	94.75	*		-6.44	5.93	-0.51
5	5470 AV	51.03	#		-50.16	5.93	-44.23
6	5469.87 AV	51.1	#		-50.09	5.93	-44.16

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.



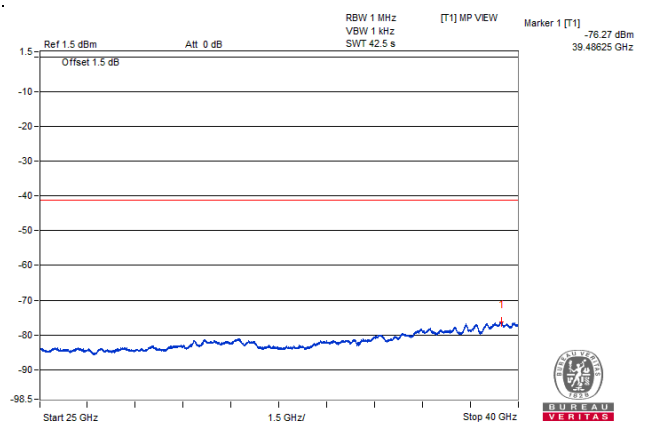
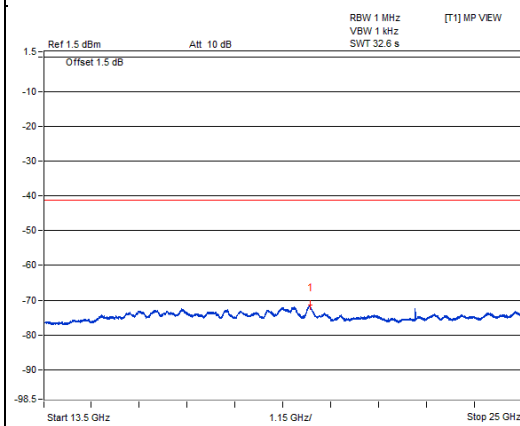
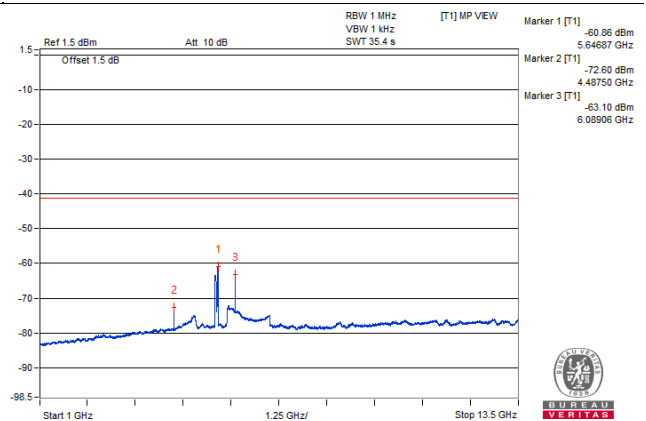
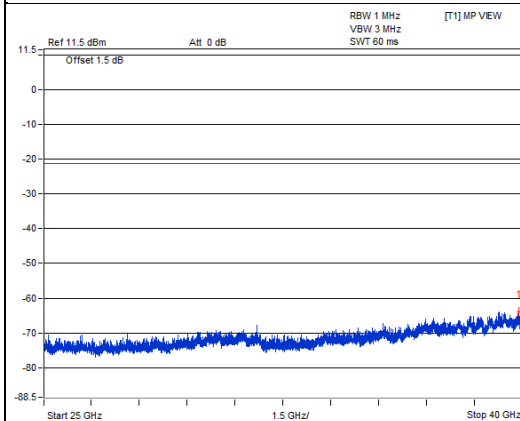
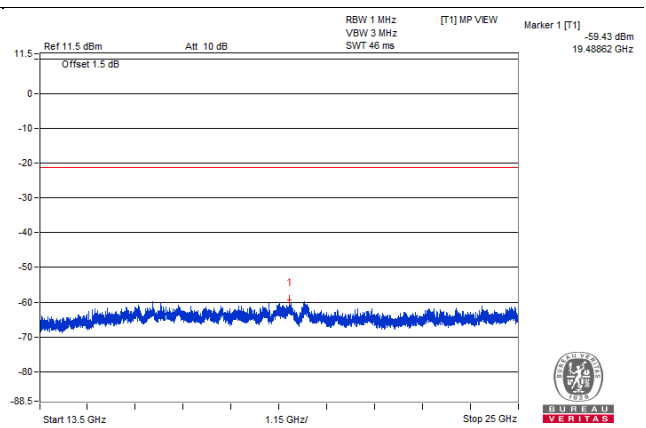
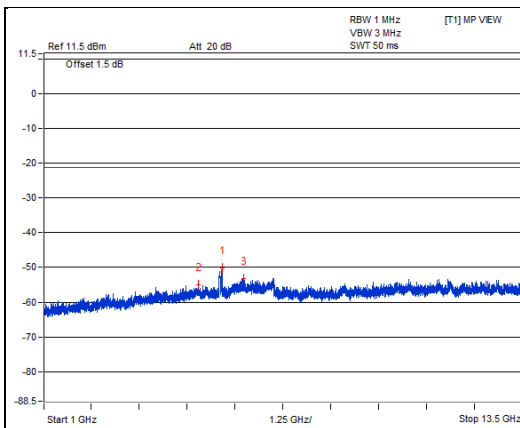
802.11ac (VHT80) - Channel 122

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	5646.87 PK	51.39	*		-50.17	6.3	-43.87
2	5025 PK	46.62	74	-27.38	-54.94	6.3	-48.64
3	6206.25 PK	48.44	68.2	-19.76	-53.12	6.3	-46.82
4	19488.62 PK	42.13	74	-31.87	-59.43	6.3	-53.13
5	39908.12 PK	37.57	74	-36.43	-63.99	6.3	-57.69
6	5646.87 AV	40.7	*		-60.86	6.3	-54.56
7	4487.5 AV	28.96	#		-72.6	6.3	-66.3
8	6089.06 AV	38.46	#		-63.1	6.3	-56.8
9	19895.43 AV	30.13	54	-23.87	-71.43	6.3	-65.13
10	39486.25 AV	25.29	54	-28.71	-76.27	6.3	-69.97

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.

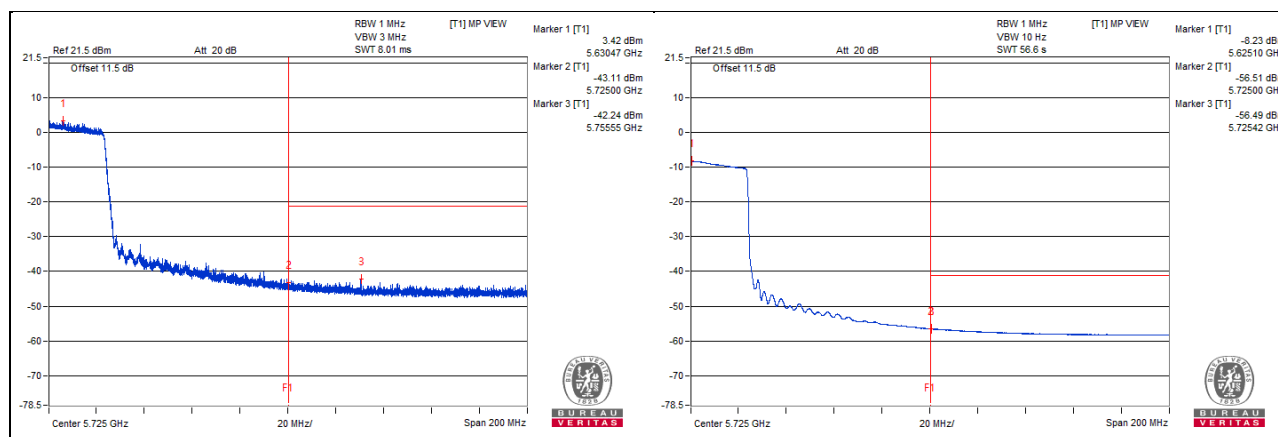


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5630.47 PK	104.61	*		3.42	5.93	9.35
2	5725 PK	58.08	68.2	-10.12	-43.11	5.93	-37.18
3	5755.55 PK	58.95	68.2	-9.25	-42.24	5.93	-36.31
4	5625.1 AV	92.96	*		-8.23	5.93	-2.3
5	5725 AV	44.68	#		-56.51	5.93	-50.58
6	5725.42 AV	44.7	#		-56.49	5.93	-50.56

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.



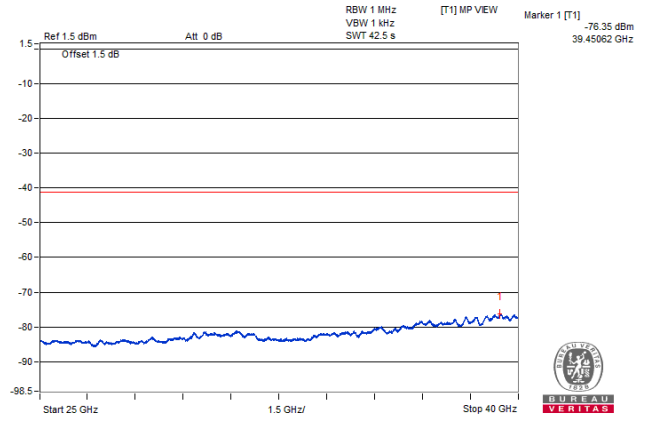
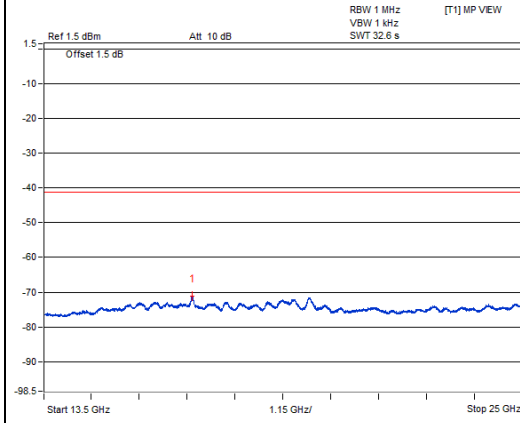
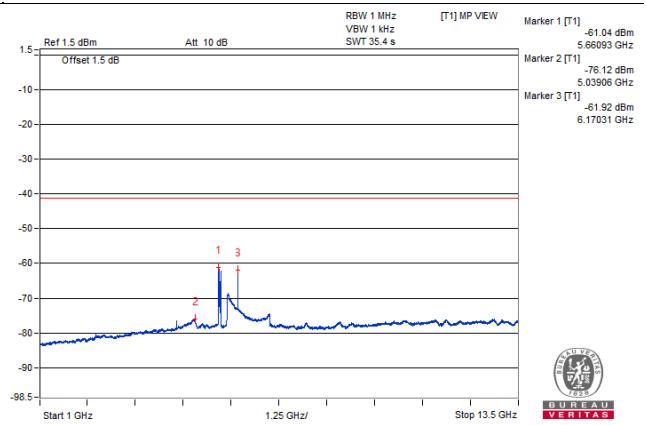
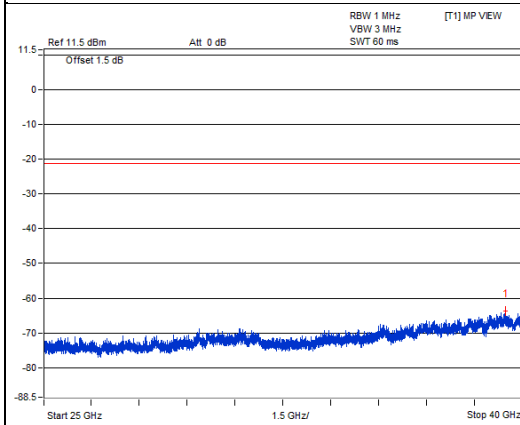
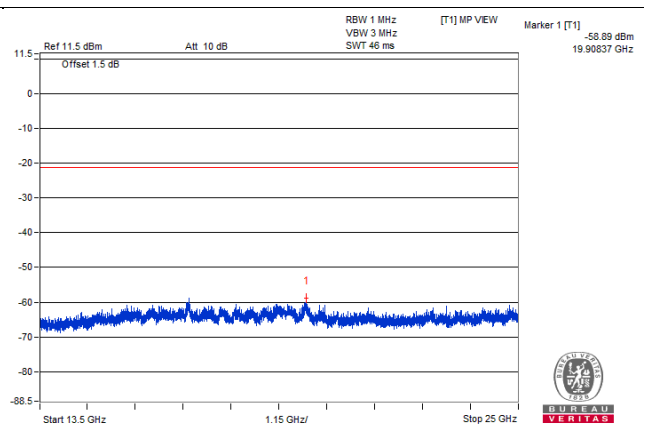
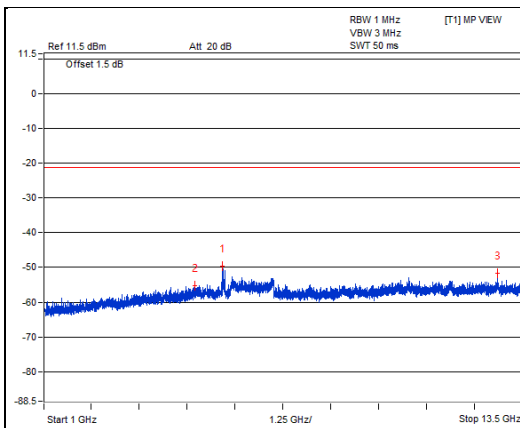
802.11ac (VHT80) - Channel 138

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	5654.68 PK	52.03	*		-49.53	6.3	-43.23
2	4931.25 PK	46.32	74	-27.68	-55.24	6.3	-48.94
3	12876.56 PK	49.83	68.2	-18.37	-51.73	6.3	-45.43
4	19908.37 PK	42.67	74	-31.33	-58.89	6.3	-52.59
5	39488.12 PK	37.76	74	-36.24	-63.8	6.3	-57.5
6	5660.93 AV	40.52	*		-61.04	6.3	-54.74
7	5039.06 AV	25.44	54	-28.56	-76.12	6.3	-69.82
8	6170.31 AV	39.64	#		-61.92	6.3	-55.62
9	17054.93 AV	30.36	#		-71.2	6.3	-64.9
10	39450.62 AV	25.21	54	-28.79	-76.35	6.3	-70.05

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.
3. # : Non-restricted frequency, no limit for average emission.

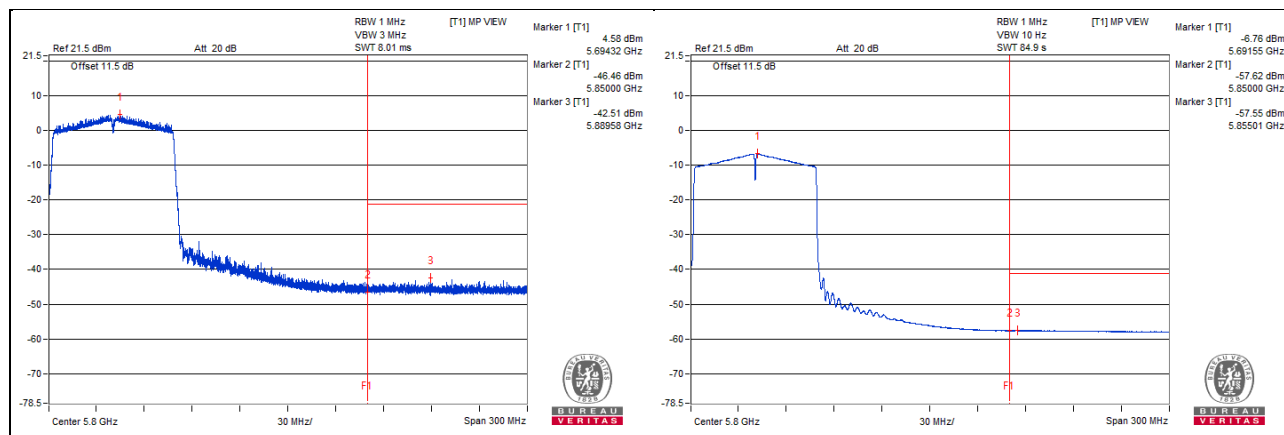


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5694.32 PK	106.14	*		4.58	6.3	10.88
2	5850 PK	55.1	68.2	-13.1	-46.46	6.3	-40.16
3	5889.58 PK	59.05	68.2	-9.15	-42.51	6.3	-36.21
4	5691.55 AV	94.8	*		-6.76	6.3	-0.46
5	5850 AV	43.94	#		-57.62	6.3	-51.32
6	5855.01 AV	44.01	#		-57.55	6.3	-51.25

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.



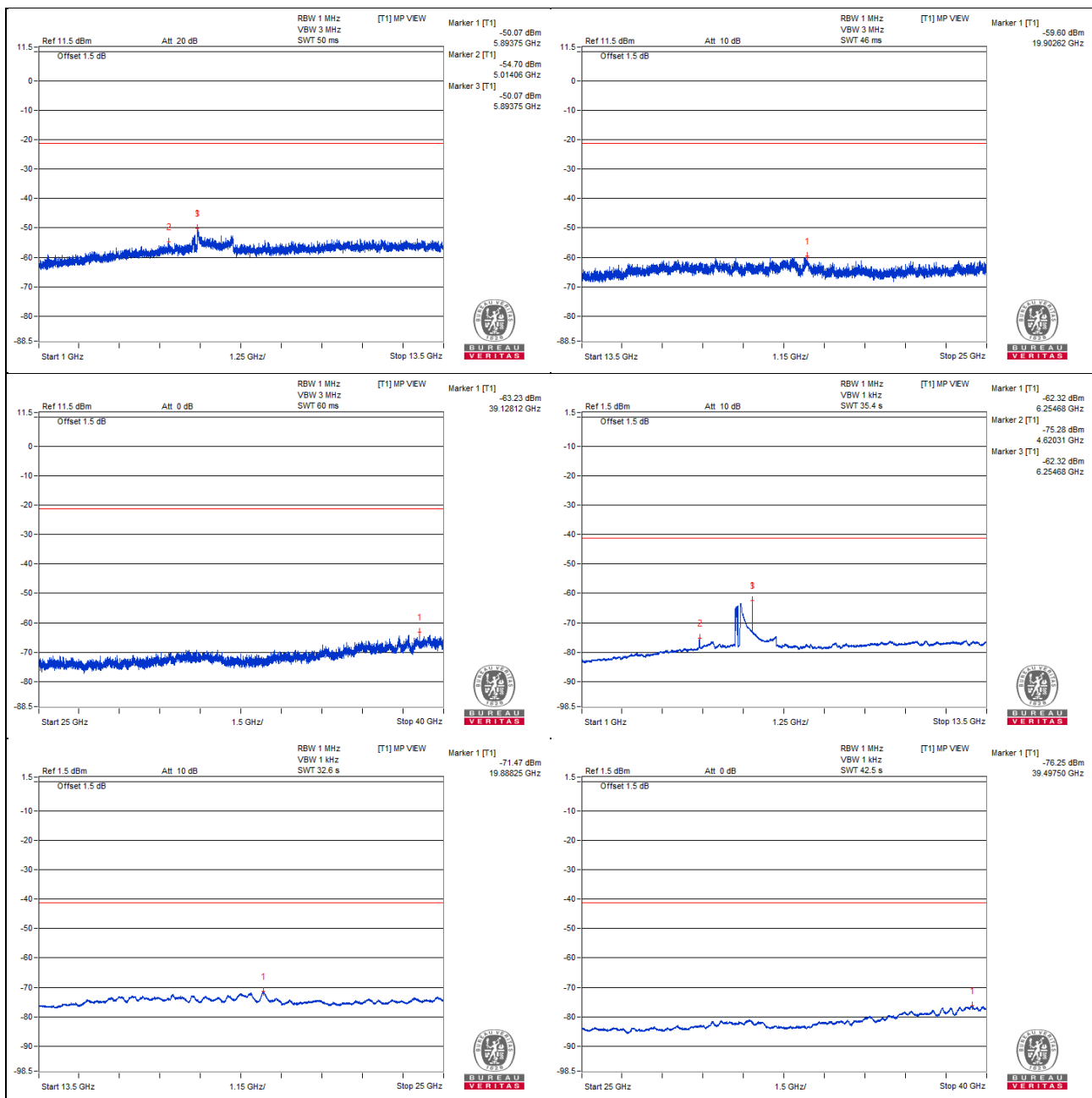
802.11ac (VHT80) – Channel 155

Conducted spurious emission table

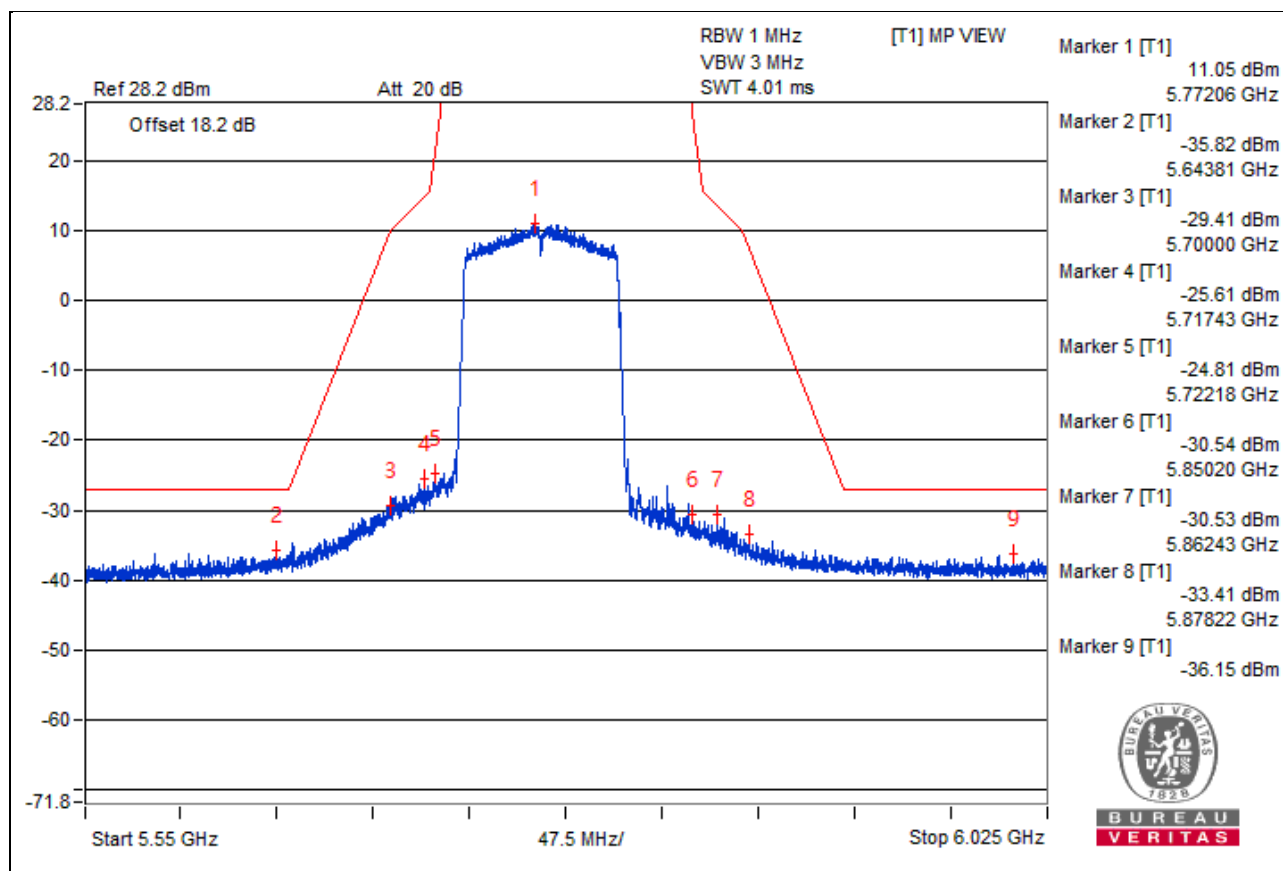
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5893.75 PK	51.49	68.2	-16.71	-50.07	6.3	-43.77
2	5014.06 PK	46.86	74	-27.14	-54.7	6.3	-48.4
3	5893.75 PK	51.49	68.2	-16.71	-50.07	6.3	-43.77
4	19902.62 PK	41.96	74	-32.04	-59.6	6.3	-53.3
5	39128.12 PK	38.33	74	-35.67	-63.23	6.3	-56.93
6	6254.68 AV	39.24	#		-62.32	6.3	-56.02
7	4620.31 AV	26.28	54	-27.72	-75.28	6.3	-68.98
8	6254.68 AV	39.24	#		-62.32	6.3	-56.02
9	19888.25 AV	30.09	54	-23.91	-71.47	6.3	-65.17
10	39497.5 AV	25.31	54	-28.69	-76.25	6.3	-69.95

Note :

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



Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.9 dB) and antenna gain (6.3 dBi).
2. The test results were EIRP.

Below 1GHz Data

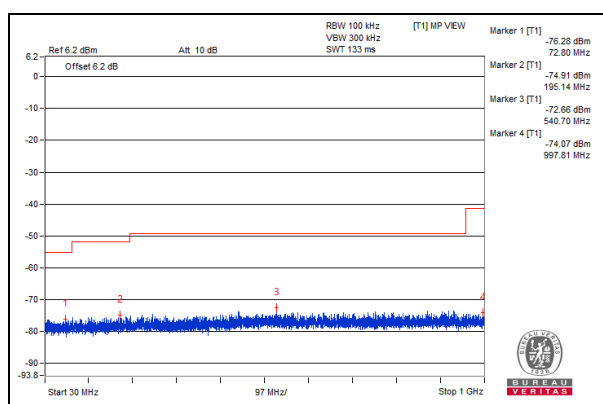
802.11a - Channel 48

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	72.8	25.28	#		-76.28	6.3	-69.98
2	195.14	26.65	#		-74.91	6.3	-68.61
3	540.7	28.9	#		-72.66	6.3	-66.36
4	997.81	27.49	54	-26.51	-74.07	6.3	-67.77

Note :

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



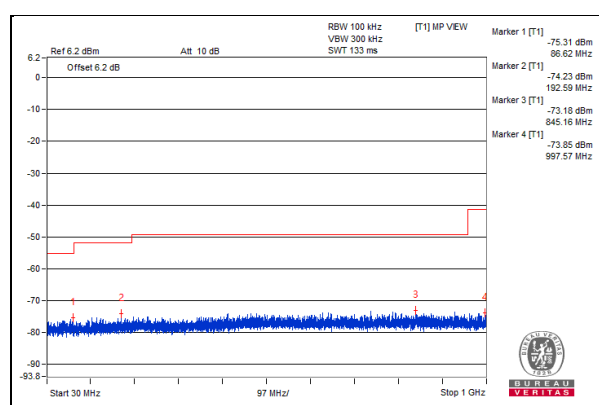
802.11a - Channel 52

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	86.62	26.25	#		-75.31	6.3	-69.01
2	192.59	27.33	#		-74.23	6.3	-67.93
3	845.16	28.38	46	-17.62	-73.18	6.3	-66.88
4	997.57	27.71	54	-26.29	-73.85	6.3	-67.55

Note :

- Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- # : Non-restricted frequency, no limit for average emission.



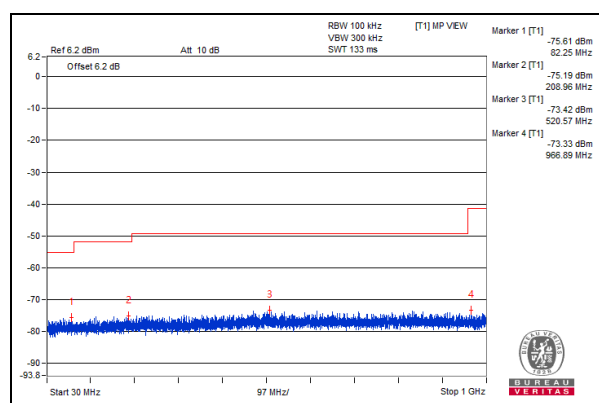
802.11a - Channel 116

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	82.25	25.95	#		-75.61	6.3	-69.31
2	208.96	26.37	#		-75.19	6.3	-68.89
3	520.57	28.14	#		-73.42	6.3	-67.12
4	966.89	28.23	54	-25.77	-73.33	6.3	-67.03

Note :

- Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- # : Non-restricted frequency, no limit for average emission.



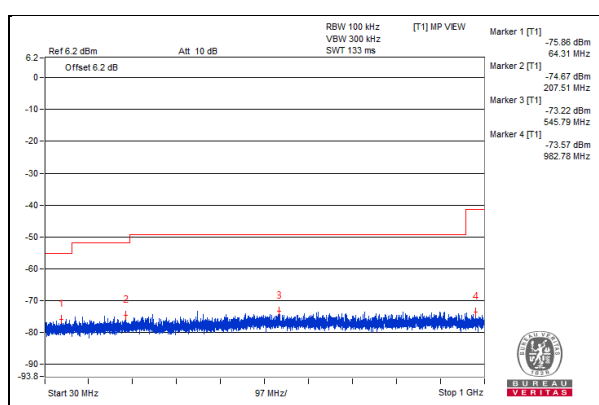
802.11a - Channel 165

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	64.31	25.7	#		-75.86	6.3	-69.56
2	207.51	26.89	#		-74.67	6.3	-68.37
3	545.79	28.34	#		-73.22	6.3	-66.92
4	982.78	27.99	54	-26.01	-73.57	6.3	-67.27

Note :

- Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
d = measurement distance in 3 meters.
- # : Non-restricted frequency, no limit for average emission.



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

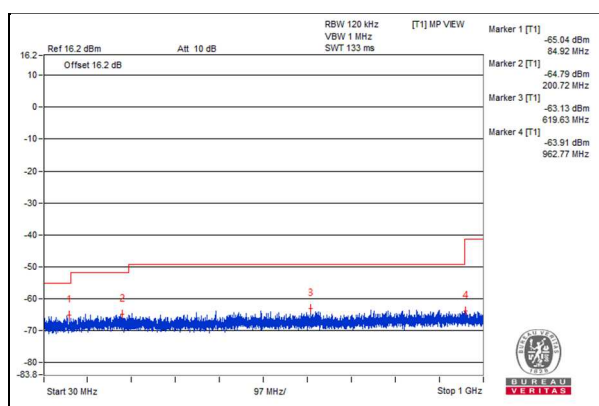
802.11a - Channel 52

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	84.92	36.52	#		-65.04	6.3	-58.74
2	200.72	36.77	#		-64.79	6.3	-58.49
3	619.63	38.43	#		-63.13	6.3	-56.83
4	962.77	37.65	54	-16.35	-63.91	6.3	-57.61

Note :

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



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

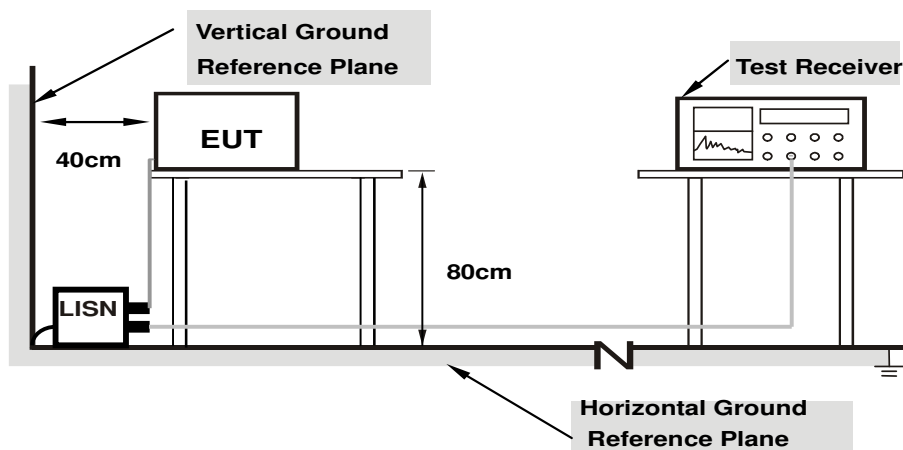
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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.

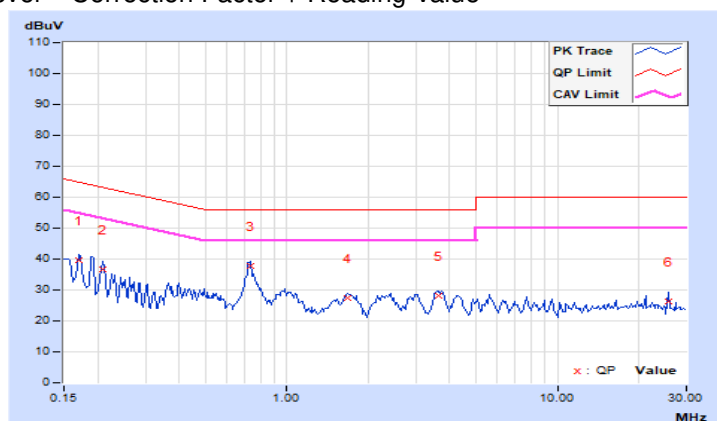
4.2.7 Test Results

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	0.16953	9.99	29.65	22.71	39.64	32.70	64.98	54.98	-25.34	-22.28
2	0.20859	9.99	26.79	21.03	36.78	31.02	63.26	53.26	-26.48	-22.24
3	0.73594	10.03	27.76	24.42	37.79	34.45	56.00	46.00	-18.21	-11.55
4	1.67188	10.10	17.41	11.24	27.51	21.34	56.00	46.00	-28.49	-24.66
5	3.62500	10.23	17.75	13.84	27.98	24.07	56.00	46.00	-28.02	-21.93
6	25.87109	11.58	14.86	14.03	26.44	25.61	60.00	50.00	-33.56	-24.39

Remarks:

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

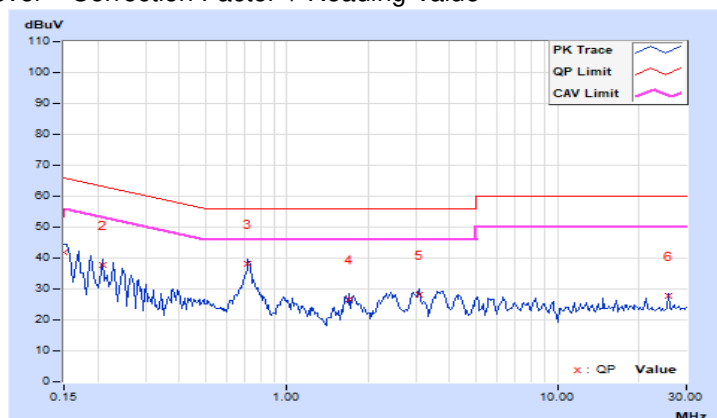


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBUV)		Emission Level (dBUV)		Limit (dBUV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.99	31.83	23.50	41.82	33.49	66.00	56.00	-24.18	-22.51
2	0.20859	9.99	27.97	21.97	37.96	31.96	63.26	53.26	-25.30	-21.30
3	0.72031	10.03	28.02	24.86	38.05	34.89	56.00	46.00	-17.95	-11.11
4	1.70703	10.10	16.48	14.24	26.58	24.34	56.00	46.00	-29.42	-21.66
5	3.07422	10.17	18.14	13.86	28.31	24.03	56.00	46.00	-27.69	-21.97
6	25.87109	11.25	16.45	15.93	27.70	27.18	60.00	50.00	-32.30	-22.82

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} ;

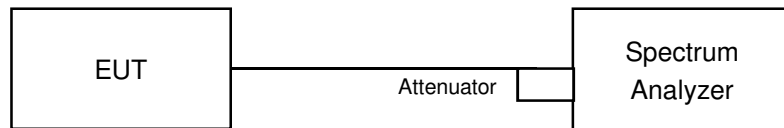
Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

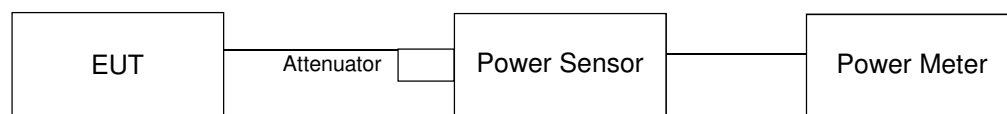
4.3.2 Test Setup

FOR POWER OUTPUT MEASUREMENT

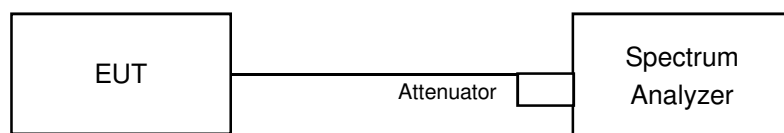
For channel straddling 5725MHz:



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
9. Compute power by integrating the spectrum across the 26 dB EBW of the signal. In order to obtain results more easily, change max hold to view. It has no effect on the result

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.
10. 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%. In order to obtain results more easily, change max hold to view. It has no effect on the result

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	14.87	14.46	58.616	17.68	24.00	Pass
40	5200	14.90	14.51	59.152	17.72	24.00	Pass
48	5240	14.99	14.04	56.901	17.55	24.00	Pass
52	5260	14.85	13.96	55.438	17.44	24.00	Pass
60	5300	14.53	14.05	53.789	17.31	24.00	Pass
64	5320	14.49	14.08	53.705	17.30	24.00	Pass
100	5500	14.34	14.11	52.928	17.24	23.38	Pass
116	5580	14.48	14.35	55.281	17.43	23.38	Pass
140	5700	12.16	12.37	33.702	15.28	23.38	Pass
*144 (U-NII-2C Band)	5720	13.17	12.55	38.738	15.88	22.20	Pass
*144 (U-NII-3 Band)	5720	6.35	5.79	8.108	9.09	29.25	Pass
149	5745	14.41	15.05	59.595	17.75	29.25	Pass
157	5785	14.53	15.08	60.59	17.82	29.25	Pass
165	5825	14.47	14.93	59.107	17.72	29.25	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 = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 5.07 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 5.69 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 6.62 \text{ dBi} > 6 \text{ dBi}$, therefore the limit needs to reduce, so the power limit shall be reduced to "Determined Conducted Limit-(6.62-6)".
4. For U-NII-3: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 6.75 \text{ dBi} > 6 \text{ dBi}$, so the power limit shall be reduced to $30-(6.75-6) = 29.25 \text{ dBm}$.

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	46.846	16.71	14.08	14.34	52.75	17.22

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	20.44	24.1 > 24
64	5320	20.46	24.1 > 24
100	5500	20.5	24.11 > 24
116	5580	20.51	24.11 > 24
140	5700	20.49	24.11 > 24
144 (U-NII-2C Band)	5720	15.22	22.82 < 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	13.35	13.27	42.86	16.32	24.00	Pass
46	5230	14.91	14.25	57.581	17.60	24.00	Pass
54	5270	14.94	14.12	57.011	17.56	24.00	Pass
62	5310	13.55	13.26	43.83	16.42	24.00	Pass
102	5510	11.98	11.87	31.158	14.94	23.38	Pass
110	5550	14.44	14.53	56.176	17.50	23.38	Pass
134	5670	13.62	13.59	45.87	16.62	23.38	Pass
*142 (U-NII-2C Band)	5710	13.04	13.58	42.941	16.33	23.38	Pass
*142 (U-NII-3 Band)	5710	1.29	1.87	2.884	4.60	29.25	Pass
151	5755	14.04	14.93	56.468	17.52	29.25	Pass
159	5795	14.19	14.92	57.288	17.58	29.25	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 = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 5.07 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 5.69 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 6.62 \text{ dBi} > 6 \text{ dBi}$, therefore the limit needs to reduce, so the power limit shall be reduced to "Determined Conducted Limit-(6.62-6)".
4. For U-NII-3: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 6.75 \text{ dBi} > 6 \text{ dBi}$, so the power limit shall be reduced to $30-(6.75-6) = 29.25 \text{ dBm}$.

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	45.825	16.61	14.03	14.44	53.09	17.25

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	41.79	27.21 > 24
62	5310	41.96	27.22 > 24
102	5510	42	27.23 > 24
110	5550	41.84	27.21 > 24
134	5670	41.7	27.2 > 24
142 (U-NII-2C Band)	5710	35.79	26.53 > 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	7.74	7.31	11.326	10.54	24.00	Pass
58	5290	8.93	8.04	14.184	11.52	24.00	Pass
106	5530	9.51	9.18	17.212	12.36	23.38	Pass
122	5610	14.56	14.24	55.122	17.41	23.38	Pass
*138 (U-NII-2C Band)	5690	13.48	13.20	43.177	16.35	23.38	Pass
*138 (U-NII-3 Band)	5690	-0.70	-0.98	1.6491	2.17	29.25	Pass
155	5775	14.08	14.57	54.228	17.34	29.25	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 = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 5.07 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 5.69 \text{ dBi} < 6 \text{ dBi}$, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 6.62 \text{ dBi} > 6 \text{ dBi}$, therefore the limit needs to reduce, so the power limit shall be reduced to "Determined Conducted Limit-(6.62-6)".
4. For U-NII-3: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 6.75 \text{ dBi} > 6 \text{ dBi}$, so the power limit shall be reduced to $30-(6.75-6) = 29.25 \text{ dBm}$.

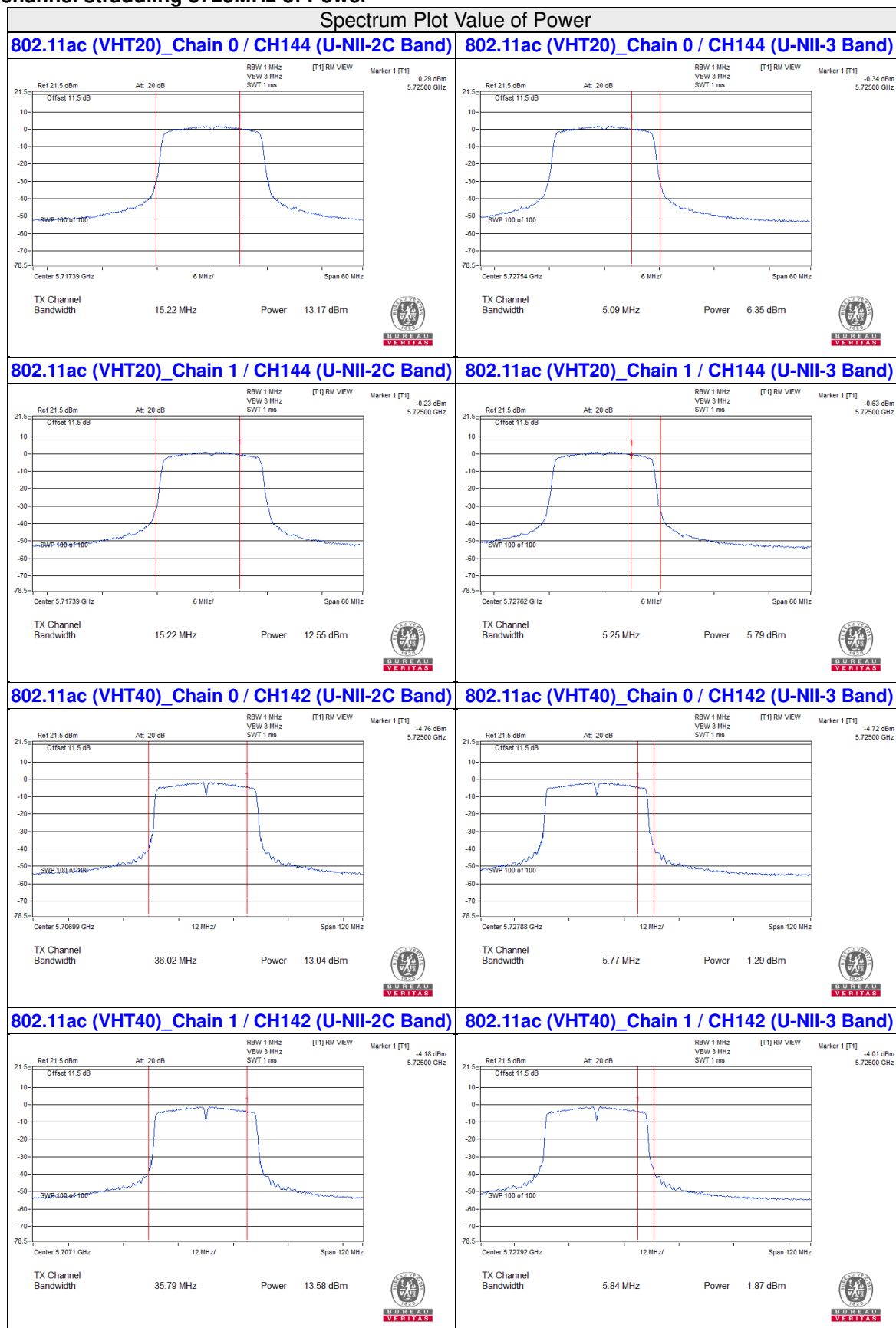
The Total Power for the straddle channel and power meter value for reference only:

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	44.8261	16.52	14.31	14.22	53.401	17.28

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

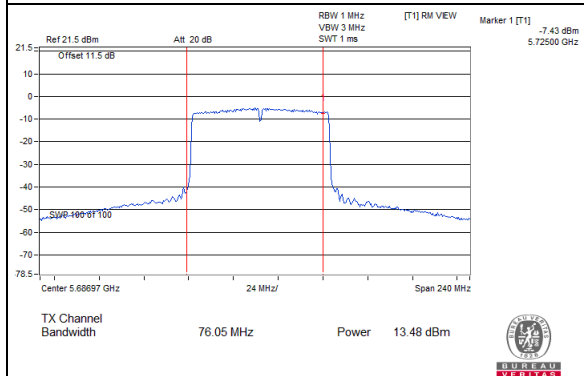
Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	81.84	30.12 > 24
106	5530	81.93	30.13 > 24
122	5610	81.74	30.12 > 24
138 (U-NII-2C Band)	5690	75.72	29.79 > 24

For channel straddling 5725MHz of Power

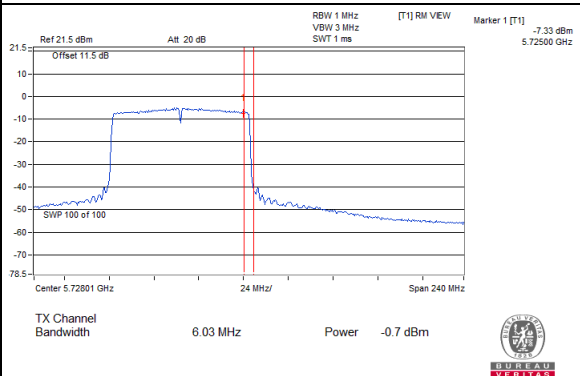


Spectrum Plot Value of Power

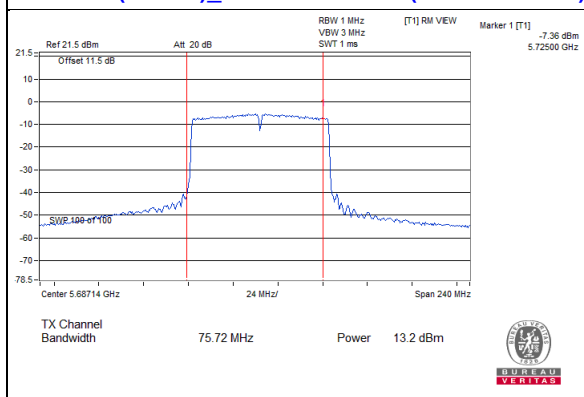
802.11ac (VHT80)_Chain 0 / CH138 (U-NII-2C Band)



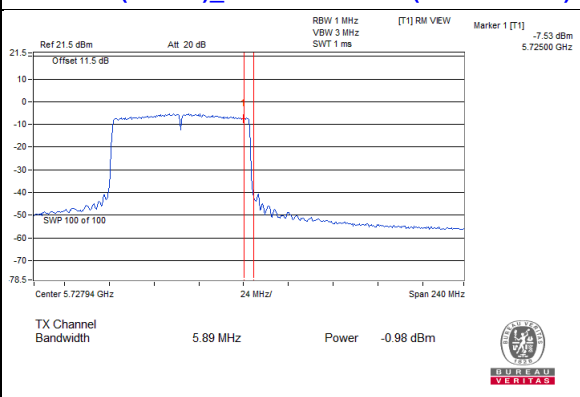
802.11ac (VHT80)_Chain 0 / CH138 (U-NII-3 Band)



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	20.52	20.45
60	5300	20.45	20.44
64	5320	20.51	20.46
100	5500	20.57	20.5
116	5580	20.51	20.51
140	5700	20.49	20.61
144 (U-NII-2C Band)	5720	15.22	15.22

802.11ac (VHT40)

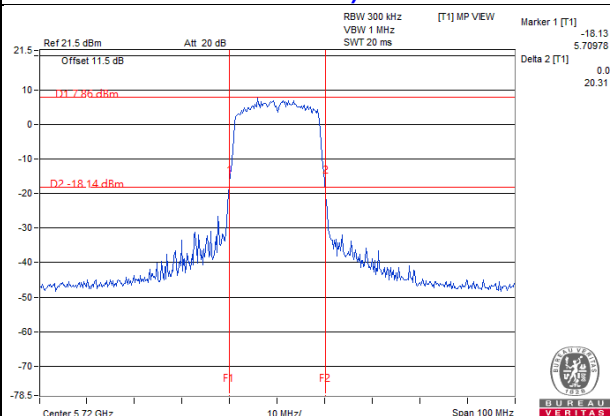
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	41.85	41.79
62	5310	42.05	41.96
102	5510	42.13	42
110	5550	41.84	41.9
134	5670	41.7	41.91
142 (U-NII-2C Band)	5710	36.02	35.79

802.11ac (VHT80)

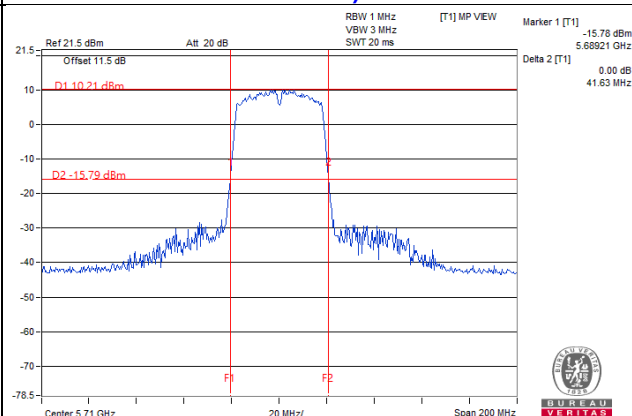
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	81.84	81.91
106	5530	82.26	81.93
122	5610	81.74	81.93
138 (U-NII-2C Band)	5690	76.05	75.72

Spectrum Plot of Worst Value

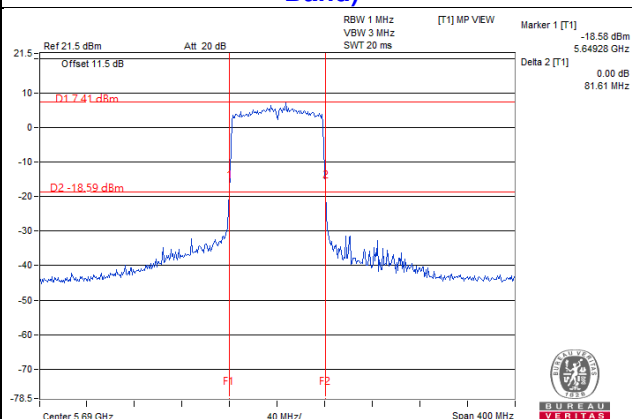
802.11ac (VHT20)_Chain 0 / CH144 (U-NII-2C Band)



802.11ac (VHT40)_Chain 1 / CH142 (U-NII-2C Band)

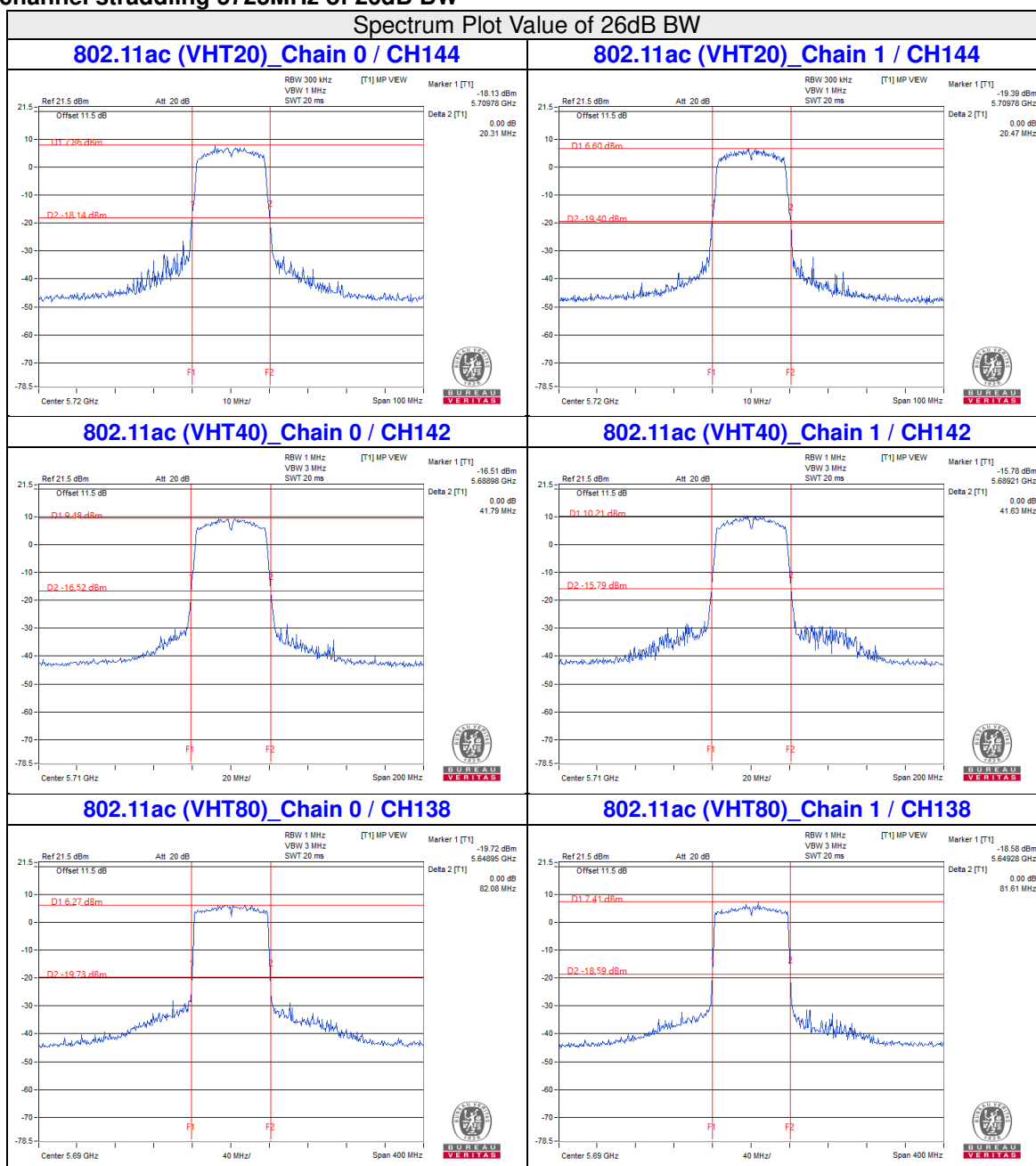


802.11ac (VHT80)_Chain 1 / CH138 (U-NII-2C Band)



Note: For CH144 (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	48.195	16.83	24.00	Pass
40	5200	47.534	16.77	24.00	Pass
48	5240	50.003	16.99	24.00	Pass
52	5260	51.168	17.09	24.00	Pass
60	5300	42.462	16.28	24.00	Pass
64	5320	46.238	16.65	24.00	Pass
100	5500	44.875	16.52	24.00	Pass
116	5580	46.452	16.67	24.00	Pass
140	5700	34.754	15.41	24.00	Pass
*144 (U-NII-2C Band)	5720	33.651	15.27	22.89	Pass
*144 (U-NII-3 Band)	5720	5.888	7.70	29.70	Pass
149	5745	40.551	16.08	29.70	Pass
157	5785	41.21	16.15	29.70	Pass
165	5825	42.267	16.26	29.70	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-3: The max. gain = 6.3 dBi > 6 dBi, so the power limit shall be reduced to $30 - (6.6.3-6) = 29.7$ dBm.

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	39.539	15.97	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	20.76	24.17 > 24
60	5300	20.71	24.16 > 24
64	5320	20.66	24.15 > 24
100	5500	20.72	24.16 > 24
116	5580	20.83	24.18 > 24
140	5700	20.61	24.14 > 24
144 (U-NII-2C Band)	5720	15.47	22.89 < 24

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
36	5180	30.69	14.87	24.00	Pass
40	5200	30.903	14.90	24.00	Pass
48	5240	31.55	14.99	24.00	Pass
52	5260	30.549	14.85	24.00	Pass
60	5300	28.379	14.53	24.00	Pass
64	5320	28.119	14.49	24.00	Pass
100	5500	27.164	14.34	24.00	Pass
116	5580	28.054	14.48	24.00	Pass
140	5700	26.062	14.16	24.00	Pass
*144 (U-NII-2C Band)	5720	18.923	12.77	22.88	Pass
*144 (U-NII-3 Band)	5720	3.639	5.61	29.70	Pass
149	5745	27.606	14.41	29.70	Pass
157	5785	28.379	14.53	29.70	Pass
165	5825	27.99	14.47	29.70	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-3: The max. gain = 6.3 dBi > 6 dBi, so the power limit shall be reduced to $30 - (6.6.3-6) = 29.7$ dBm.

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	22.562	13.53	25.586	14.08

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	20.85	24.19 > 24
60	5300	20.82	24.18 > 24
64	5320	20.79	24.17 > 24
100	5500	20.69	24.15 > 24
116	5580	20.89	24.19 > 24
140	5700	20.73	24.16 > 24
144 (U-NII-2C Band)	5720	15.44	22.88 < 24

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
38	5190	27.227	14.35	24.00	Pass
46	5230	30.974	14.91	24.00	Pass
54	5270	31.189	14.94	24.00	Pass
62	5310	28.51	14.55	24.00	Pass
102	5510	28.054	14.48	24.00	Pass
110	5550	27.797	14.44	24.00	Pass
134	5670	28.973	14.62	24.00	Pass
*142 (U-NII-2C Band)	5710	23.605	13.73	24.00	Pass
*142 (U-NII-3 Band)	5710	1.439	1.58	29.70	Pass
151	5755	25.351	14.04	29.70	Pass
159	5795	26.242	14.19	29.70	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-3: The max. gain = 6.3 dBi > 6 dBi, so the power limit shall be reduced to $30 - (6.6.3-6) = 29.7$ dBm.

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	25.044	13.99	25.293	14.03

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	42.12	27.24 > 24
62	5310	42.01	27.23 > 24
102	5510	41.93	27.22 > 24
110	5550	41.84	27.21 > 24
134	5670	41.99	27.23 > 24
142 (U-NII-2C Band)	5710	36.14	26.57 > 24

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
42	5210	29.785	14.74	24.00	Pass
58	5290	31.117	14.93	24.00	Pass
106	5530	28.249	14.51	24.00	Pass
122	5610	28.576	14.56	24.00	Pass
*138 (U-NII-2C Band)	5690	23.605	13.73	24.00	Pass
*138 (U-NII-3 Band)	5690	0.7278	-1.38	29.70	Pass
155	5775	25.586	14.08	29.70	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-3: The max. gain = 6.3 dBi > 6 dBi, so the power limit shall be reduced to $30 - (6.6.3-6) = 29.7$ dBm.

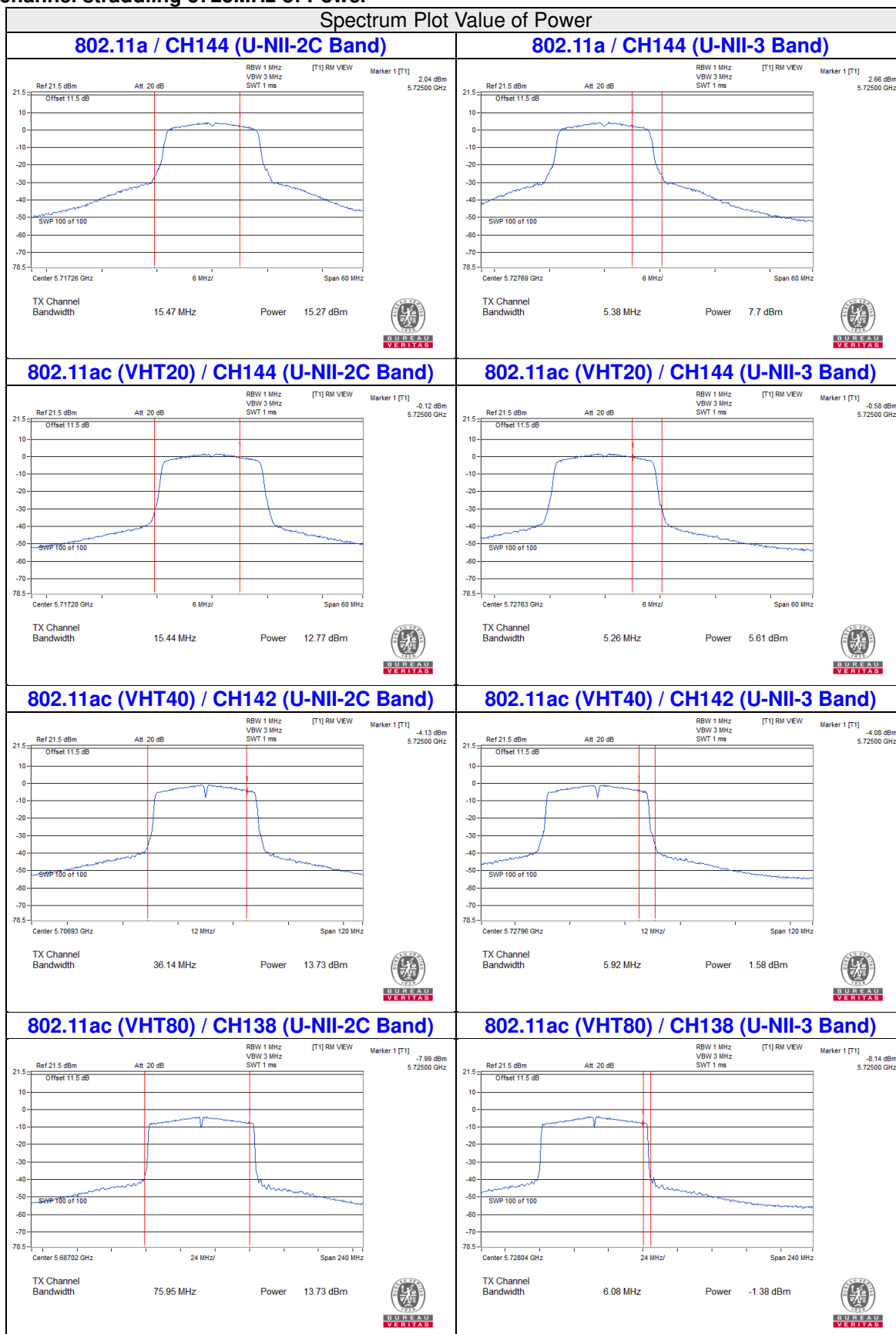
The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (mW)	Average Power (dBm)
138	5690	24.3328	13.86	26.977	14.31

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

Power Limit = $11\text{dBm} + 10\log B$ < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	82.27	30.15 > 24
106	5530	82.26	30.15 > 24
122	5610	82.17	30.14 > 24
138 (U-NII-2C Band)	5690	75.95	29.8 > 24

For channel straddling 5725MHz of Power



26dB OCCUPIED BANDWIDTH

802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
52	5260	20.76
60	5300	20.71
64	5320	20.66
100	5500	20.72
116	5580	20.83
140	5700	20.61
144 (U-NII-2C Band)	5720	15.47

802.11ac (VHT20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
52	5260	20.85
60	5300	20.82
64	5320	20.79
100	5500	20.69
116	5580	20.89
140	5700	20.73
144 (U-NII-2C Band)	5720	15.44

802.11ac (VHT40)

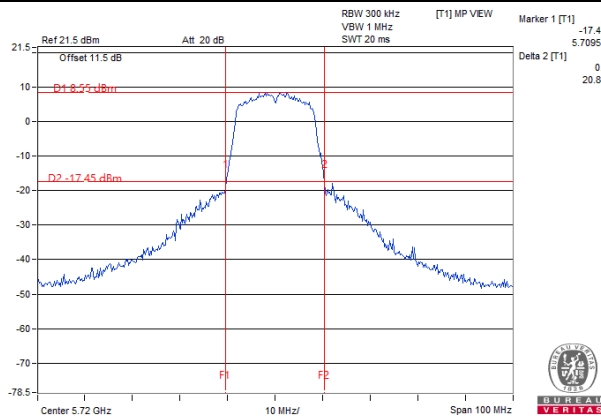
Channel	Frequency (MHz)	26dB Bandwidth (MHz)
54	5270	42.12
62	5310	42.01
102	5510	41.93
110	5550	41.84
134	5670	41.99
142 (U-NII-2C Band)	5710	36.14

802.11ac (VHT80)

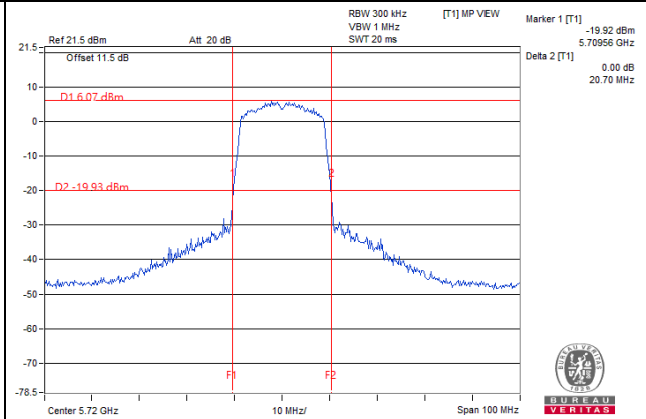
Channel	Frequency (MHz)	26dB Bandwidth (MHz)
58	5290	82.27
106	5530	82.26
122	5610	82.17
138 (U-NII-2C Band)	5690	75.95

Spectrum Plot of Worst Value

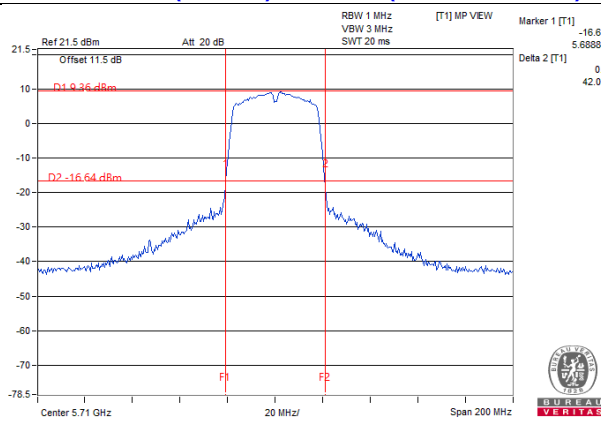
802.11a / CH144 (U-NII-2C Band)



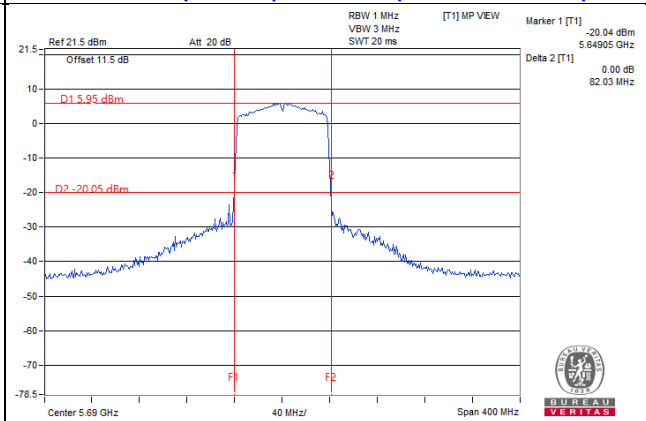
802.11ac (VHT20) / CH144 (U-NII-2C Band)



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



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

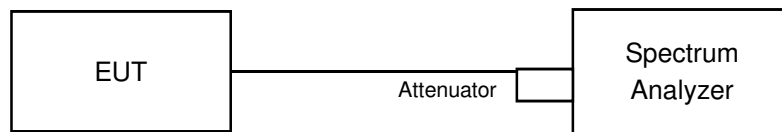


Note:

- 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	17.65	17.64
40	5200	17.74	17.64
48	5240	17.74	17.64
52	5260	17.65	17.65
60	5300	17.74	17.74
64	5320	17.83	17.74
100	5500	17.65	17.74
116	5580	17.76	17.64
140	5700	17.64	17.64
144 (U-NII-2C Band)	5720	14	13.88
144 (U-NII-3 Band)	5720	3.76	3.76
149	5745	17.76	17.64
157	5785	17.64	17.64
165	5825	17.76	17.76

802.11ac (VHT40)

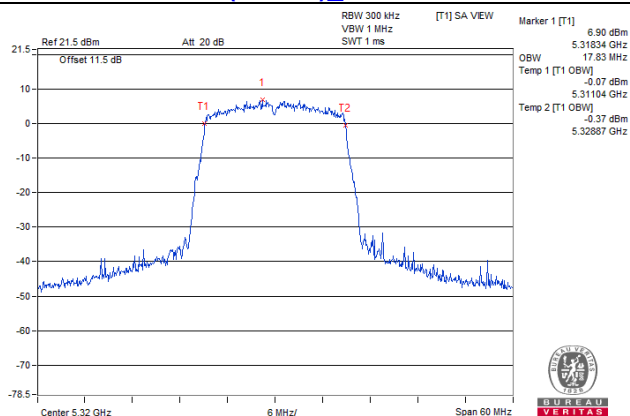
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.48	36.48
46	5230	36.48	36.24
54	5270	36.48	36.48
62	5310	36.24	36.48
102	5510	36.48	36.48
110	5550	36.48	36.48
134	5670	36.24	36.48
142 (U-NII-2C Band)	5710	33.24	33.24
142 (U-NII-3 Band)	5710	3.24	3.24
151	5755	36.48	36.24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

802.11ac (VHT80)

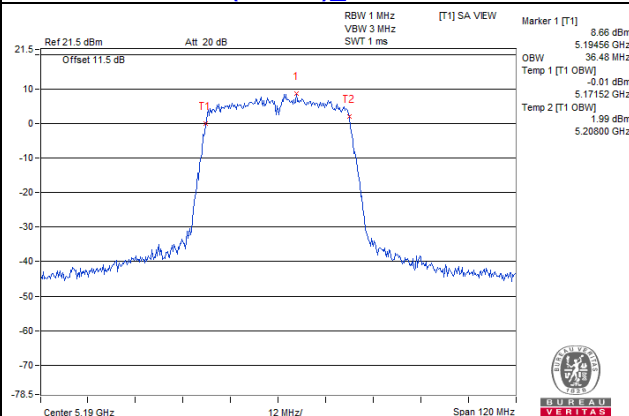
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	76.87
58	5290	75.84	75.84
106	5530	75.84	75.84
122	5610	75.84	75.84
138 (U-NII-2C Band)	5690	72.92	72.92
138 (U-NII-3 Band)	5690	2.92	2.92
155	5775	75.84	75.84

Spectrum Plot of Max. Value

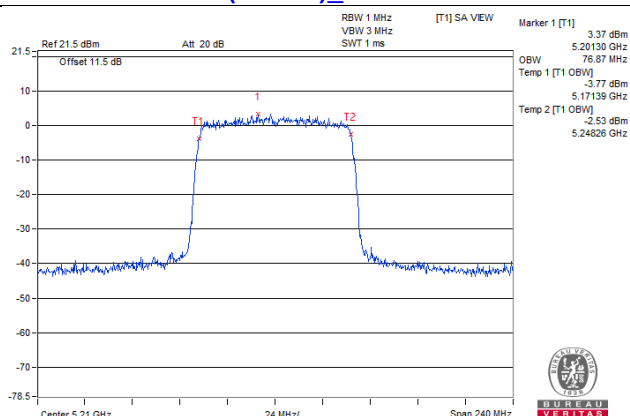
802.11ac (VHT20)_Chain 0 / CH64



802.11ac (VHT40)_Chain 0 / CH38

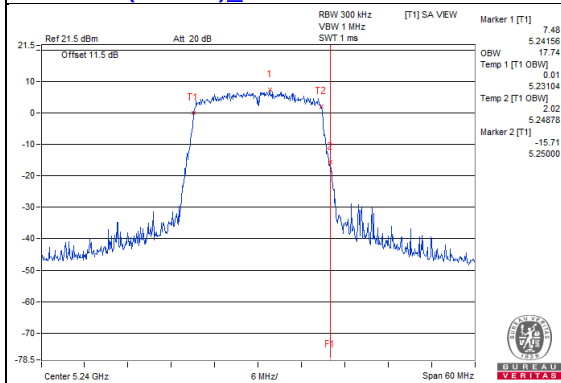


802.11ac (VHT80)_Chain 1 / CH42

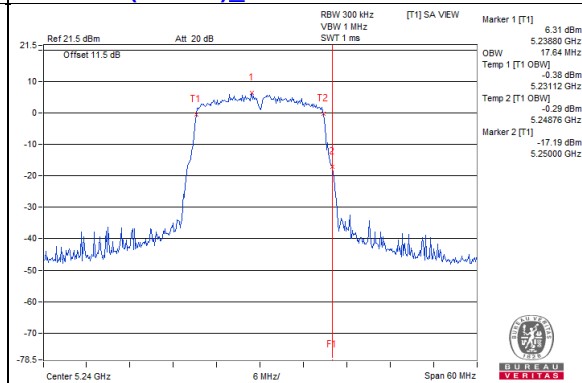


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

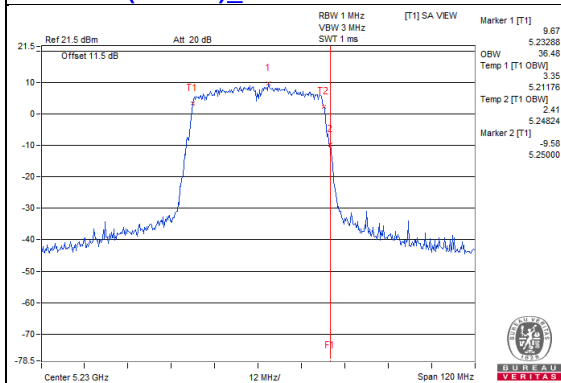
802.11ac (VHT20)_Chain0 / CH48



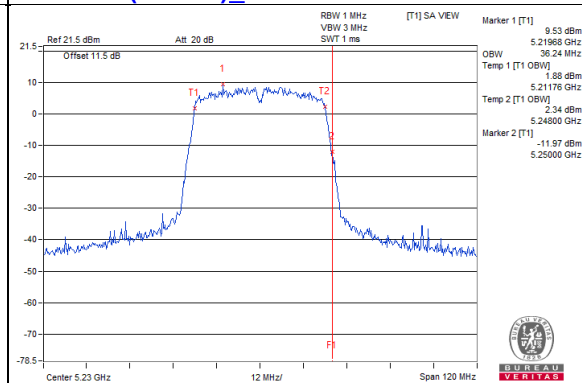
802.11ac (VHT20)_Chain1 / CH48



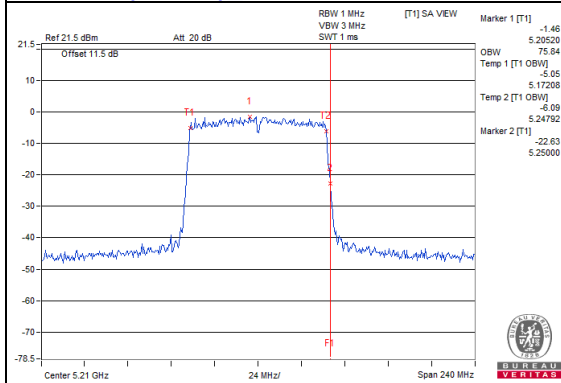
802.11ac (VHT40)_Chain0 / CH46



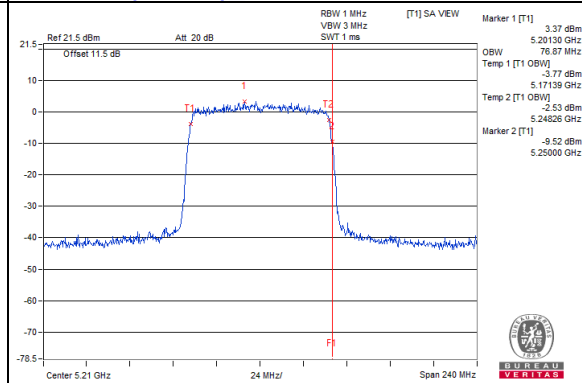
802.11ac (VHT40)_Chain1 / CH46



802.11ac (VHT80)_Chain0 / CH42

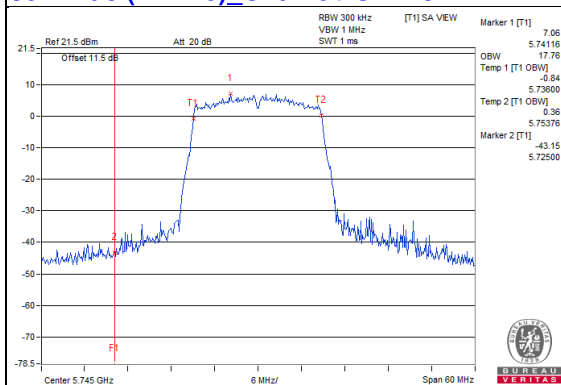


802.11ac (VHT80)_Chain1 / CH42

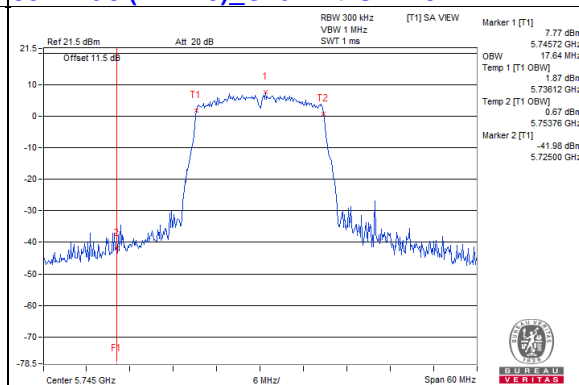


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

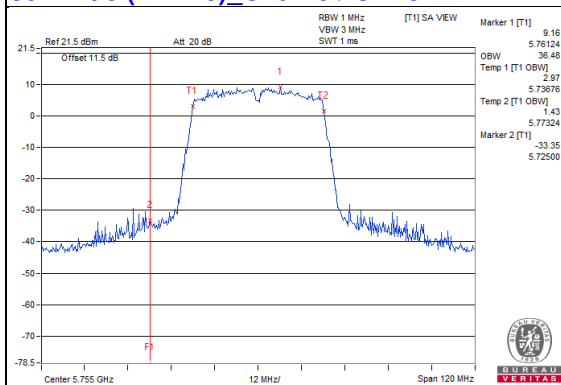
802.11ac (VHT20)_Chain0 / CH149



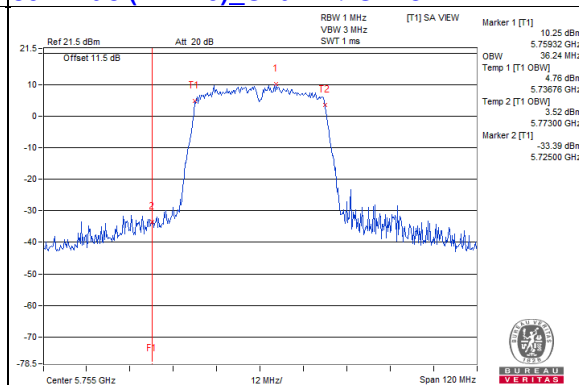
802.11ac (VHT20)_Chain1 / CH149



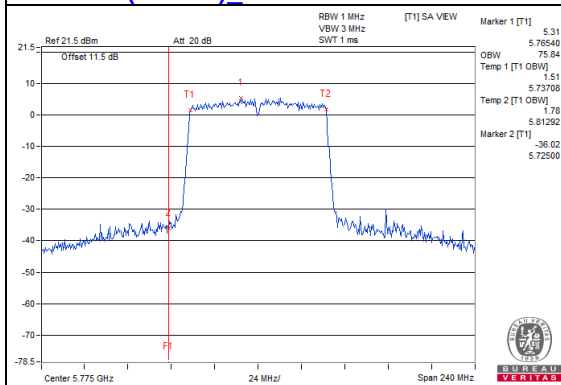
802.11ac (VHT40)_Chain0 / CH151



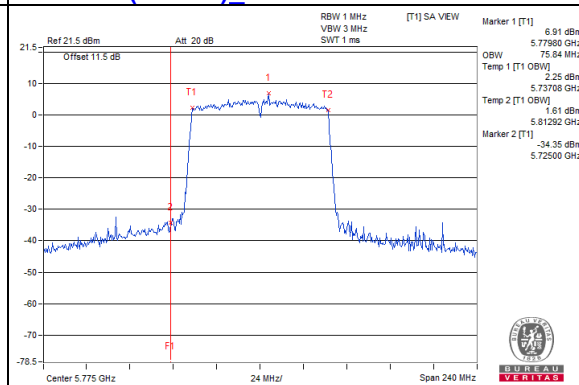
802.11ac (VHT40)_Chain1 / CH151



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	16.7
40	5200	16.68
48	5240	16.68
52	5260	16.8
60	5300	16.68
64	5320	16.68
100	5500	16.8
116	5580	16.92
140	5700	16.68
144 (U-NII-2C Band)	5720	13.52
144 (U-NII-3 Band)	5720	3.28
149	5745	16.92
157	5785	16.92
165	5825	16.8

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	17.64
40	5200	17.64
48	5240	17.64
52	5260	17.64
60	5300	17.64
64	5320	17.64
100	5500	17.64
116	5580	17.64
140	5700	17.64
144 (U-NII-2C Band)	5720	13.88
144 (U-NII-3 Band)	5720	3.76
149	5745	17.76
157	5785	17.88
165	5825	17.76

802.11ac (VHT40)

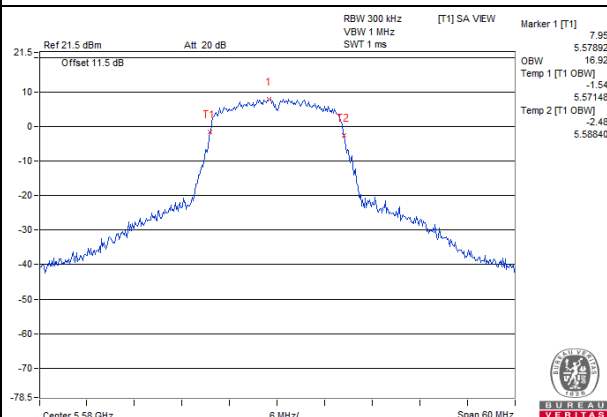
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	37.04
46	5230	36.35
54	5270	36.35
62	5310	36.52
102	5510	36.35
110	5550	36.52
134	5670	36.24
142 (U-NII-2C Band)	5710	33.24
142 (U-NII-3 Band)	5710	3
151	5755	36.48
159	5795	36.48

802.11ac (VHT80)

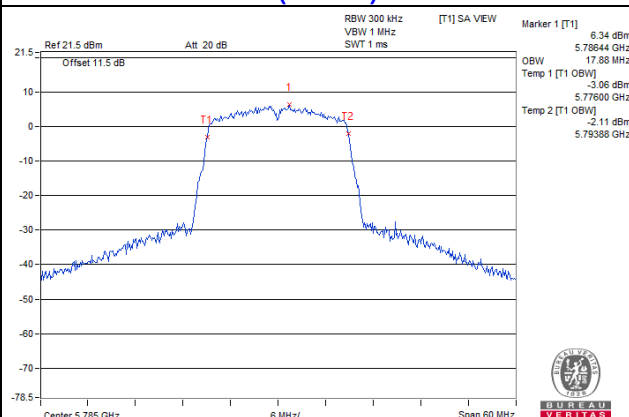
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	75.36
58	5290	75.36
106	5530	75.36
122	5610	75.36
138 (U-NII-2C Band)	5690	72.92
138 (U-NII-3 Band)	5690	2.44
155	5775	75.36

Spectrum Plot of Max. Value

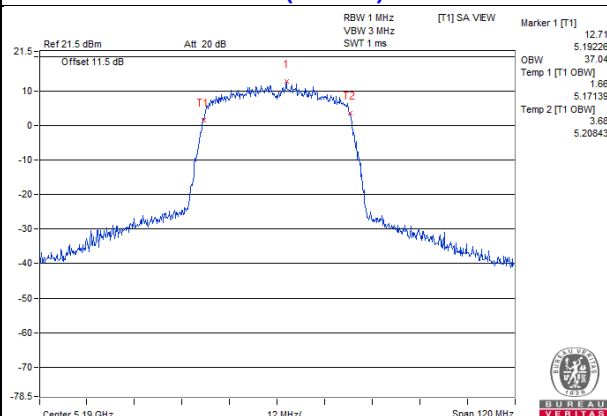
802.11a / CH116



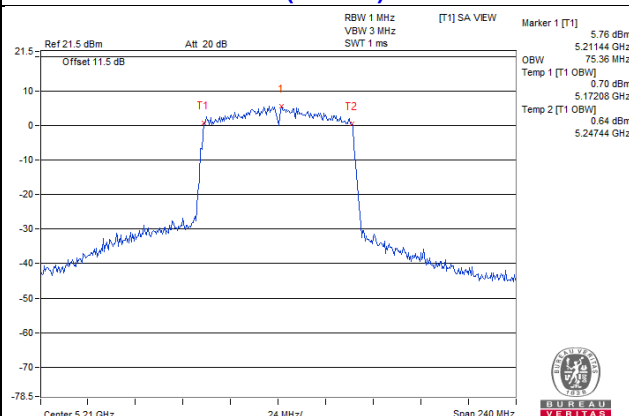
802.11ac (VHT20) / CH157



802.11ac (VHT40) / CH38

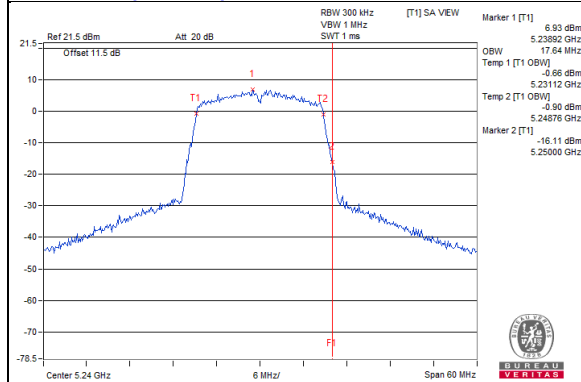


802.11ac (VHT80) / CH42

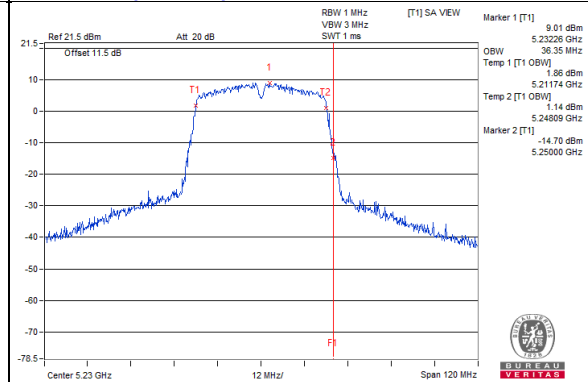


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

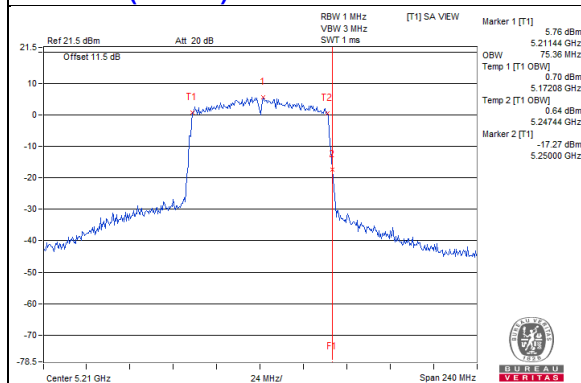
802.11ac (VHT20) / CH48



802.11ac (VHT40) / CH46

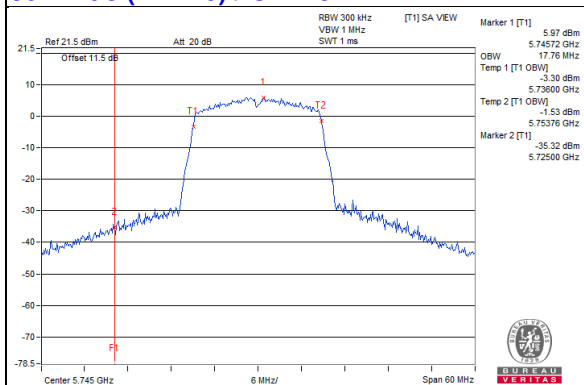


802.11ac (VHT80) / CH42

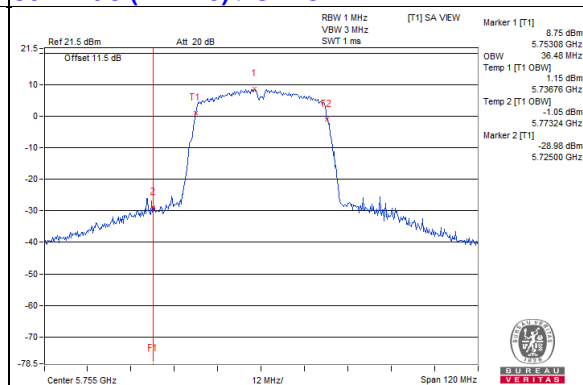


Spectrum Plot for near by DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)

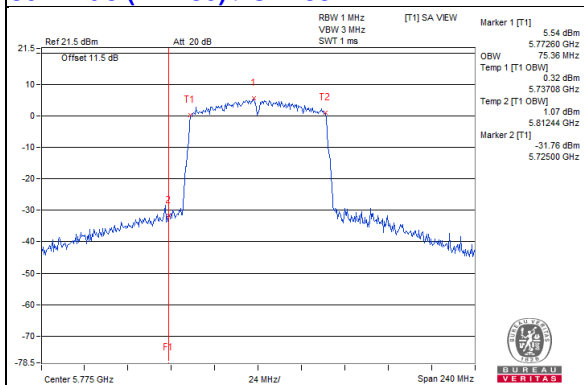
802.11ac (VHT20) / CH149



802.11ac (VHT40) / CH151



802.11ac (VHT80) / CH155

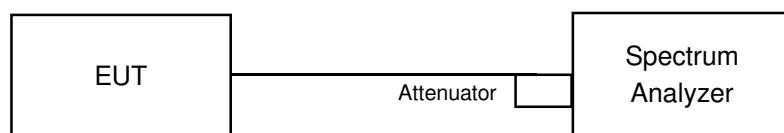


4.5 Peak Power Spectral Density Measurement

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	1.82	1.53	4.69	11.00	Pass
40	5200	2.02	1.11	4.60	11.00	Pass
48	5240	2.23	1.12	4.72	11.00	Pass
52	5260	1.65	0.18	3.99	11.00	Pass
60	5300	1.43	1.19	4.32	11.00	Pass
64	5320	1.45	1.17	4.32	11.00	Pass
100	5500	1.76	1.06	4.43	10.38	Pass
116	5580	1.58	1.05	4.33	10.38	Pass
140	5700	-0.78	-0.41	2.42	10.38	Pass
144 (U-NII-2C Band)	5720	1.49	1.09	4.30	10.38	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 = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 5.07 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.
3. For U-NII-2A: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 5.69 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.
4. For U-NII-2C: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 6.62 \text{ dBi} > 6 \text{ dBi}$, therefore the limit needs to reduce, so the power density limit shall be reduced to $11 - (6.62 - 6) = 10.38 \text{ dBm/MHz}$.

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	-2.63	-3.01	0.19	11.00	Pass
46	5230	-0.85	-1.89	1.67	11.00	Pass
54	5270	-1.25	-2.08	1.37	11.00	Pass
62	5310	-2.29	-2.54	0.60	11.00	Pass
102	5510	-3.93	-4.75	-1.31	10.38	Pass
110	5550	-1.99	-1.15	1.46	10.38	Pass
134	5670	-2.83	-2.17	0.52	10.38	Pass
142 (U-NII-2C Band)	5710	-1.24	-1.15	1.82	10.38	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 = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 5.07 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.
3. For U-NII-2A: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 5.69 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.
4. For U-NII-2C: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 6.62 \text{ dBi} > 6 \text{ dBi}$, therefore the limit needs to reduce, so the power density limit shall be reduced to $11 - (6.62 - 6) = 10.38 \text{ dBm/MHz}$.

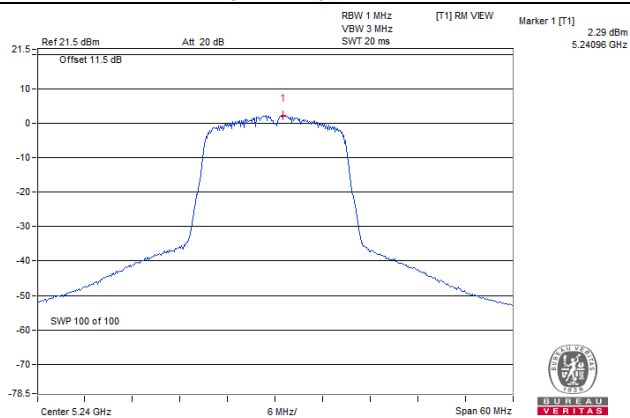
802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
42	5210	-10.94	-11.95	-8.41	11.00	Pass
58	5290	-10.29	-10.84	-7.55	11.00	Pass
106	5530	-9.56	-9.52	-6.53	10.38	Pass
122	5610	-4.04	-5.89	-1.86	10.38	Pass
138 (U-NII-2C Band)	5690	-4.91	-4.76	-1.82	10.38	Pass

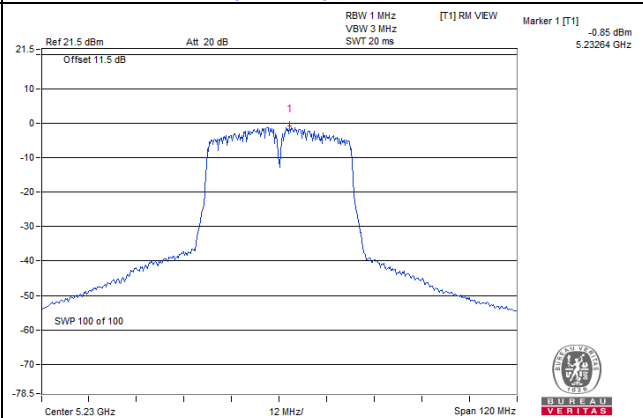
- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-1: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 5.07 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.
3. For U-NII-2A: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 5.69 \text{ dBi} < 6 \text{ dBi}$, so the power density limit shall not be reduced.
4. For U-NII-2C: The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 6.62 \text{ dBi} > 6 \text{ dBi}$, therefore the limit needs to reduce, so the power density limit shall be reduced to $11 - (6.62 - 6) = 10.38 \text{ dBm/MHz}$.

Spectrum Plot of Worst Value

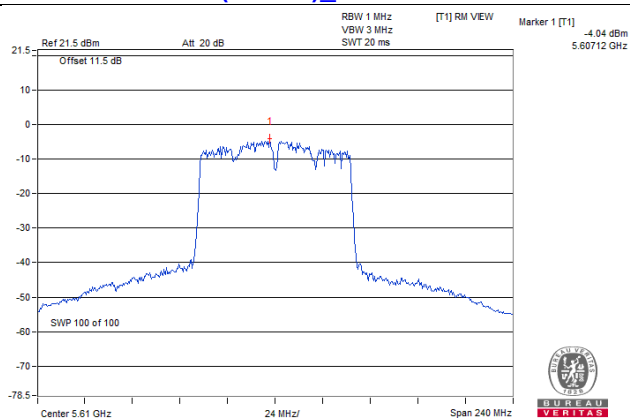
802.11ac (VHT20)_Chain 0 / CH48



802.11ac (VHT40)_Chain 0 / CH46



802.11ac (VHT80)_Chain 0 / CH122



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	-8.53	-9.22	-5.85	-3.63	29.25	Pass
149	5745	-6.11	-5.34	-2.70	-0.48	29.25	Pass
157	5785	-5.88	-5.11	-2.47	-0.25	29.25	Pass
165	5825	-6.17	-5.55	-2.84	-0.62	29.25	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 = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 6.75 > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (6.75 - 6) = 29.25 \text{ dBm/500kHz}$.

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	-13.34	-12.68	-9.99	-7.77	29.25	Pass
151	5755	-10.11	-9.69	-6.88	-4.66	29.25	Pass
159	5795	-9.93	-9.88	-6.89	-4.67	29.25	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 = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 6.75 > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (6.75 - 6) = 29.25 \text{ dBm/500kHz}$.

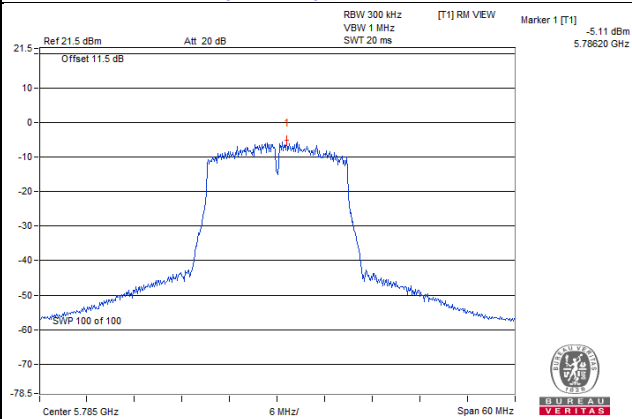
802.11ac (VHT80)

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	-16.32	-16.59	-13.44	-11.22	29.25	Pass
155	5775	-13.46	-12.60	-10.00	-7.78	29.25	Pass

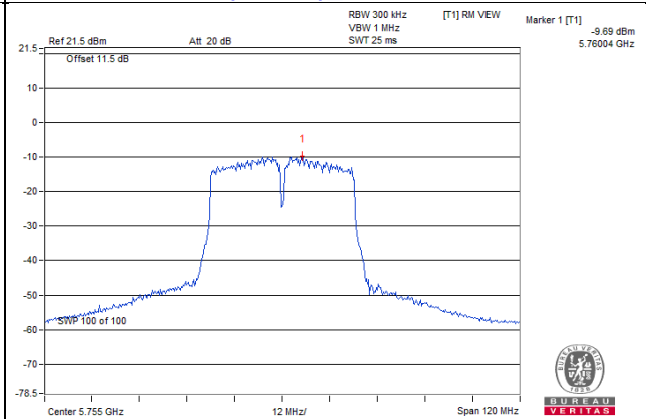
- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. The directional gain = $10 \log[(10^{G0/10} + 10^{G1/10}) / 2] = 6.75 > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (6.75 - 6) = 29.25 \text{ dBm/500kHz}$.

Spectrum Plot of Worst Value

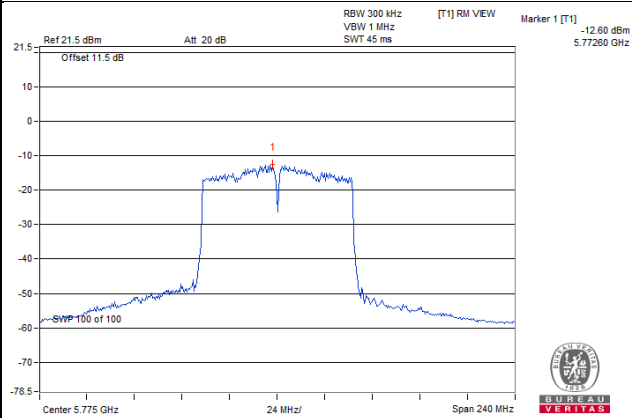
802.11ac (VHT20)_Chain 1 / CH157



802.11ac (VHT40)_Chain 1 / CH151



802.11ac (VHT80)_Chain 1 / 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	4.04	11.00	Pass
48	5240	3.81	11.00	Pass
52	5260	3.96	11.00	Pass
60	5300	3.36	11.00	Pass
64	5320	3.80	11.00	Pass
100	5500	3.97	11.00	Pass
116	5580	3.85	11.00	Pass
140	5700	2.99	11.00	Pass
144 (U-NII-2C Band)	5720	3.78	11.00	Pass

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Pass / Fail
36	5180	1.55	11.00	Pass
40	5200	1.82	11.00	Pass
48	5240	1.66	11.00	Pass
52	5260	1.31	11.00	Pass
60	5300	1.48	11.00	Pass
64	5320	1.62	11.00	Pass
100	5500	1.49	11.00	Pass
116	5580	1.28	11.00	Pass
140	5700	1.46	11.00	Pass
144 (U-NII-2C Band)	5720	1.50	11.00	Pass

802.11ac (VHT40)

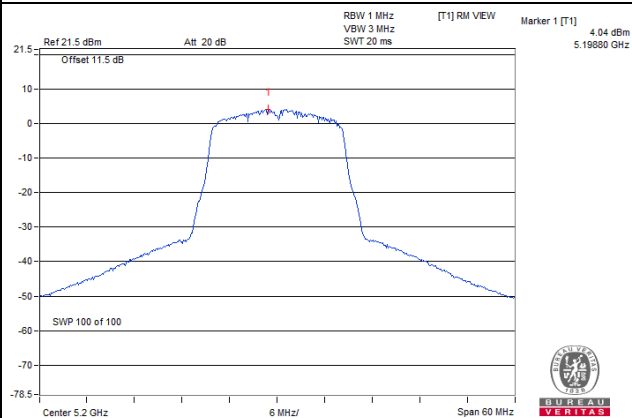
Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Pass / Fail
38	5190	-1.23	11.00	Pass
46	5230	-1.64	11.00	Pass
54	5270	-1.15	11.00	Pass
62	5310	-1.66	11.00	Pass
102	5510	-1.53	11.00	Pass
110	5550	-1.46	11.00	Pass
134	5670	-1.39	11.00	Pass
142 (U-NII-2C Band)	5710	-1.43	11.00	Pass

802.11ac (VHT80)

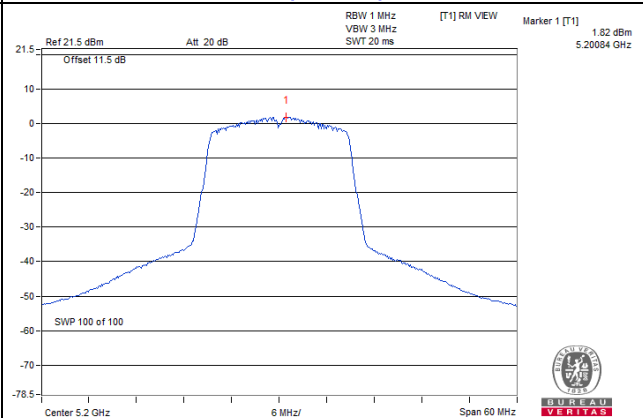
Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Pass / Fail
42	5210	-4.03	11.00	Pass
58	5290	-4.11	11.00	Pass
106	5530	-4.65	11.00	Pass
122	5610	-4.42	11.00	Pass
138 (U-NII-2C Band)	5690	-4.53	11.00	Pass

Spectrum Plot of Worst Value

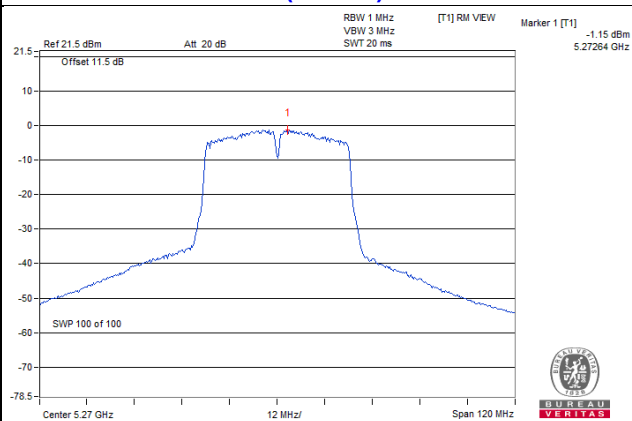
802.11a / CH40



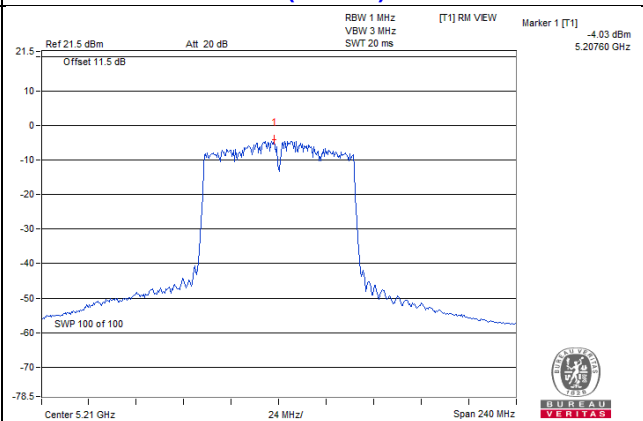
802.11ac (VHT20) / CH40



802.11ac (VHT40) / CH54



802.11ac (VHT80) / CH42



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	-6.50	-4.28	29.70	Pass
149	5745	-4.50	-2.28	29.70	Pass
157	5785	-4.42	-2.20	29.70	Pass
165	5825	-4.23	-2.01	29.70	Pass

Note: The max. gain = 6.3 > 6dBi, so the power density limit shall be reduced to $30-(6.3-6) = 29.7$ dBm/500kHz.

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	-8.36	-6.14	29.70	Pass
149	5745	-6.52	-4.30	29.70	Pass
157	5785	-6.13	-3.91	29.70	Pass
165	5825	-7.05	-4.83	29.70	Pass

Note: The max. gain = 6.3 > 6dBi, so the power density limit shall be reduced to $30-(6.3-6) = 29.7$ dBm/500kHz.

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	-12.97	-10.75	29.70	Pass
151	5755	-10.47	-8.25	29.70	Pass
159	5795	-9.86	-7.64	29.70	Pass

Note: The max. gain = 6.3 > 6dBi, so the power density limit shall be reduced to $30-(6.3-6) = 29.7$ dBm/500kHz.

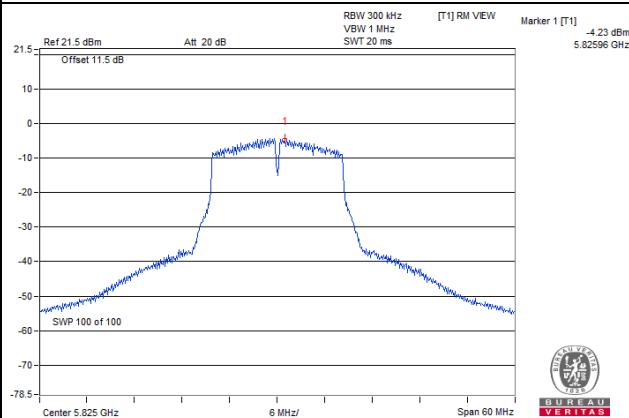
802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
138 (U-NII-3 Band)	5690	-15.68	-13.46	29.70	Pass
155	5775	-13.62	-11.40	29.70	Pass

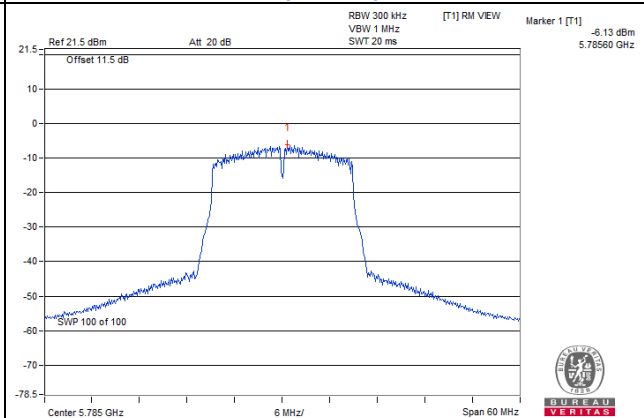
Note: The max. gain = 6.3 > 6dBi, so the power density limit shall be reduced to $30-(6.3-6) = 29.7$ dBm/500kHz.

Spectrum Plot of Worst Value

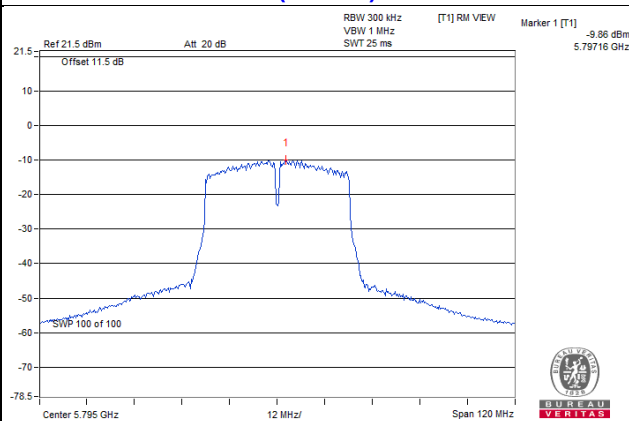
802.11a / CH165



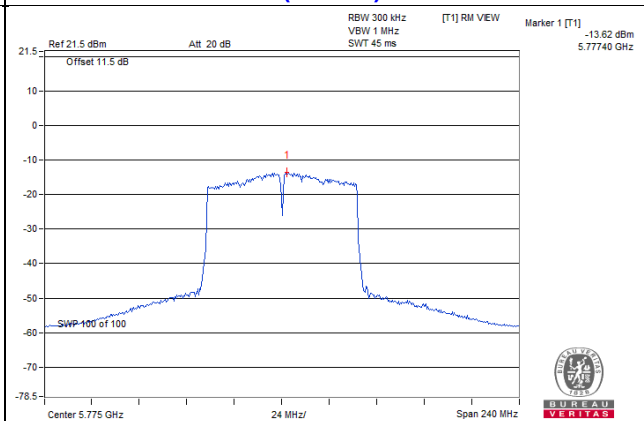
802.11ac (VHT20) / CH157



802.11ac (VHT40) / CH159



802.11ac (VHT80) / CH155

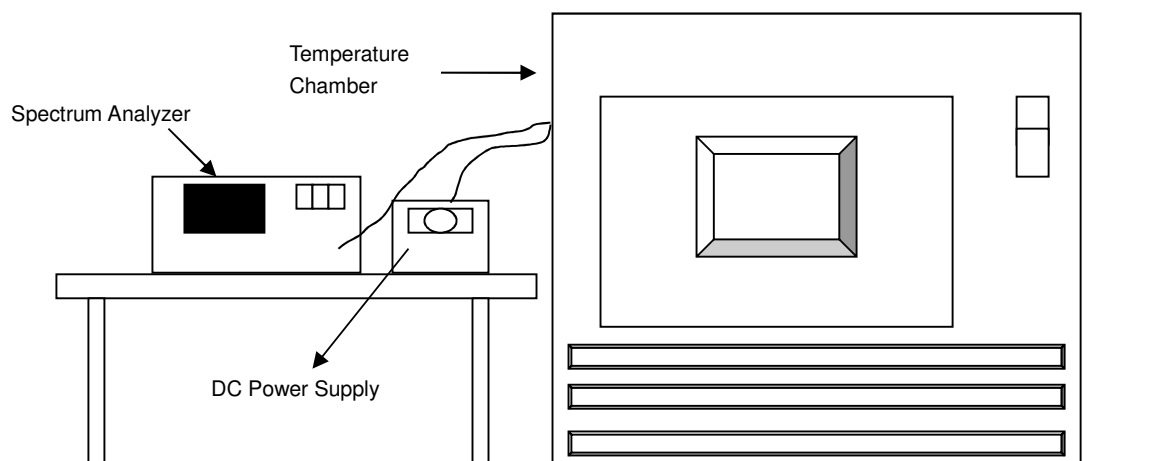


4.6 Frequency Stability Measurement

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	5179.9947	Pass	5179.9947	Pass	5179.996	Pass	5179.9965	Pass
50	3.3	5180.0045	Pass	5180.0052	Pass	5180.003	Pass	5180.0044	Pass
40	3.3	5179.9852	Pass	5179.9815	Pass	5179.9835	Pass	5179.9856	Pass
30	3.3	5179.9963	Pass	5179.9958	Pass	5180.0008	Pass	5179.9989	Pass
20	3.3	5180.0173	Pass	5180.0165	Pass	5180.0129	Pass	5180.0144	Pass
10	3.3	5180.0188	Pass	5180.0207	Pass	5180.0221	Pass	5180.0221	Pass
0	3.3	5180.0081	Pass	5180.0095	Pass	5180.0086	Pass	5180.0078	Pass
-10	3.3	5179.9896	Pass	5179.99	Pass	5179.9906	Pass	5179.9915	Pass

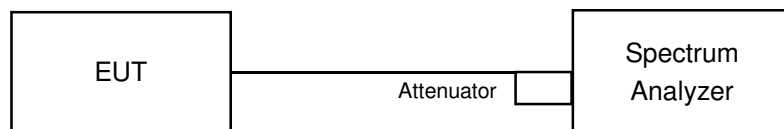
Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	3.795	5180.0172	Pass	5180.0167	Pass	5180.0137	Pass	5180.0135	Pass
	3.3	5180.0173	Pass	5180.0165	Pass	5180.0129	Pass	5180.0144	Pass
	2.805	5180.0166	Pass	5180.0156	Pass	5180.0132	Pass	5180.0154	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

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.

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. In order to obtain results more easily, change max hold to view as following. 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	3.81	3.81	Pass
149	5745	17.76	17.73	Pass
157	5785	17.75	17.75	Pass
165	5825	17.7	17.77	Pass

802.11ac (VHT40)

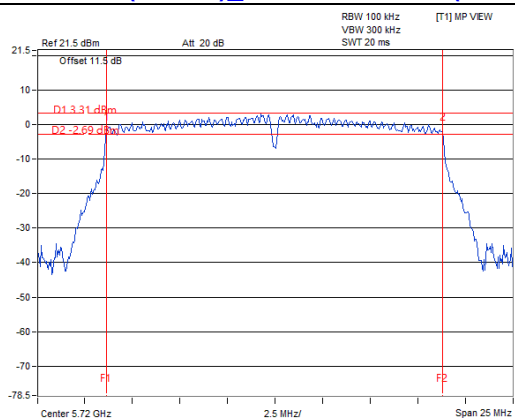
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
142 (U-NII-3 Band)	5710	3.2	3.21	Pass
151	5755	36.49	36.51	Pass
159	5795	36.53	36.53	Pass

802.11ac (VHT80)

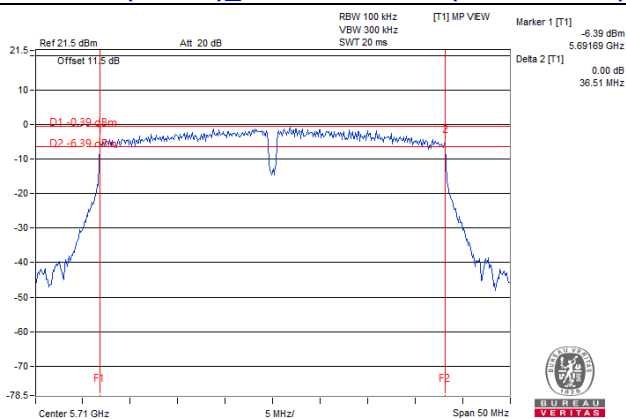
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
138 (U-NII-3 Band)	5690	3.27	3.3	Pass
155	5775	76.84	76.82	Pass

Spectrum Plot of Worst Value

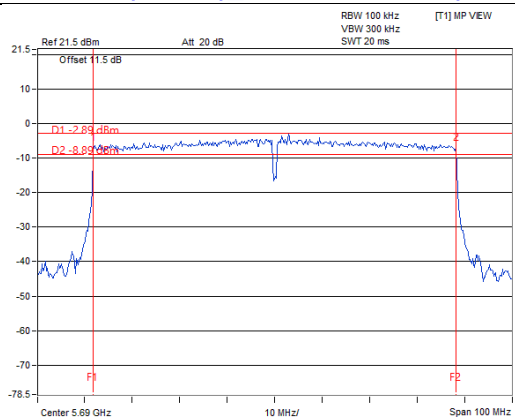
802.11ac (VHT20)_Chain 0 / CH144 (U-NII-3 Band)



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



802.11ac (VHT80)_Chain 0 / 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	3.16	Pass
149	5745	16.42	Pass
157	5785	16.37	Pass
165	5825	16.41	Pass

802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Pass / Fail
144 (U-NII-3 Band)	5720	3.77	Pass
149	5745	17.63	Pass
157	5785	17.63	Pass
165	5825	17.63	Pass

802.11ac (VHT40)

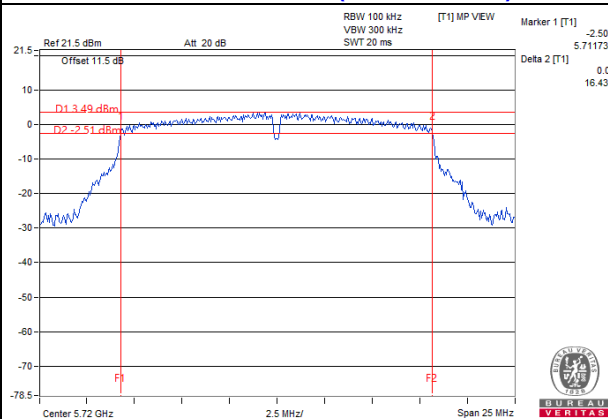
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Pass / Fail
142 (U-NII-3 Band)	5710	3.14	Pass
151	5755	36.4	Pass
159	5795	36.38	Pass

802.11ac (VHT80)

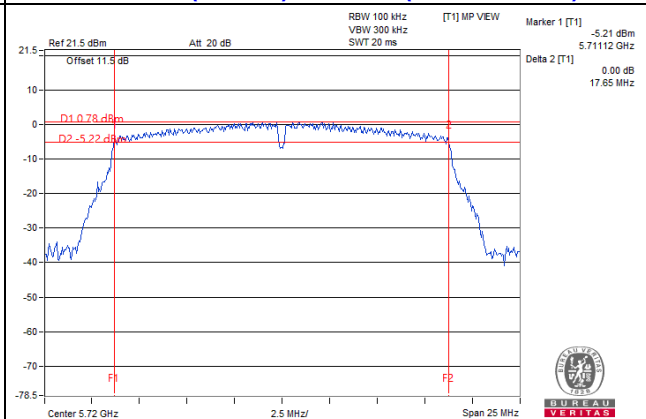
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Pass / Fail
138 (U-NII-3 Band)	5690	3.25	Pass
155	5775	76.58	Pass

Spectrum Plot of Worst Value

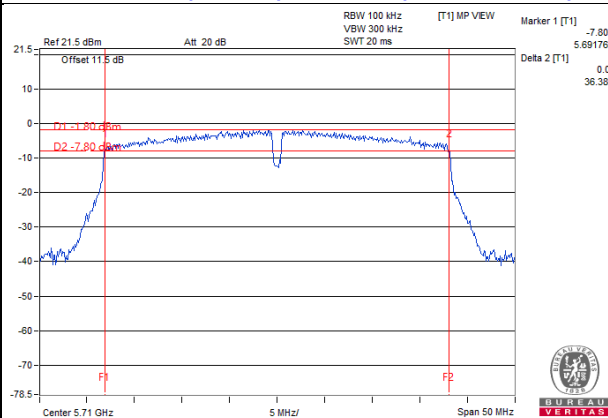
802.11a / CH144 (U-NII-3 Band)



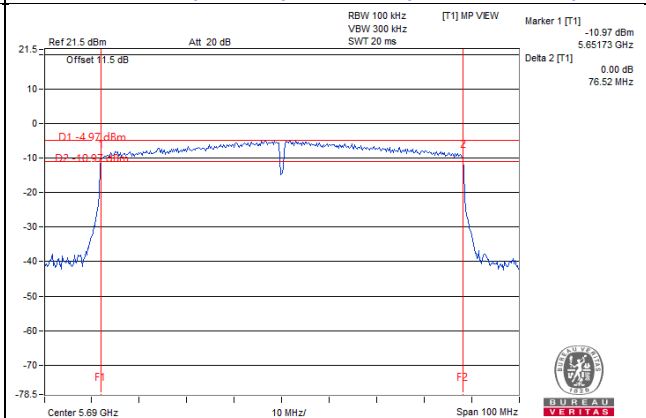
802.11ac (VHT20) / CH144 (U-NII-3 Band)



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

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