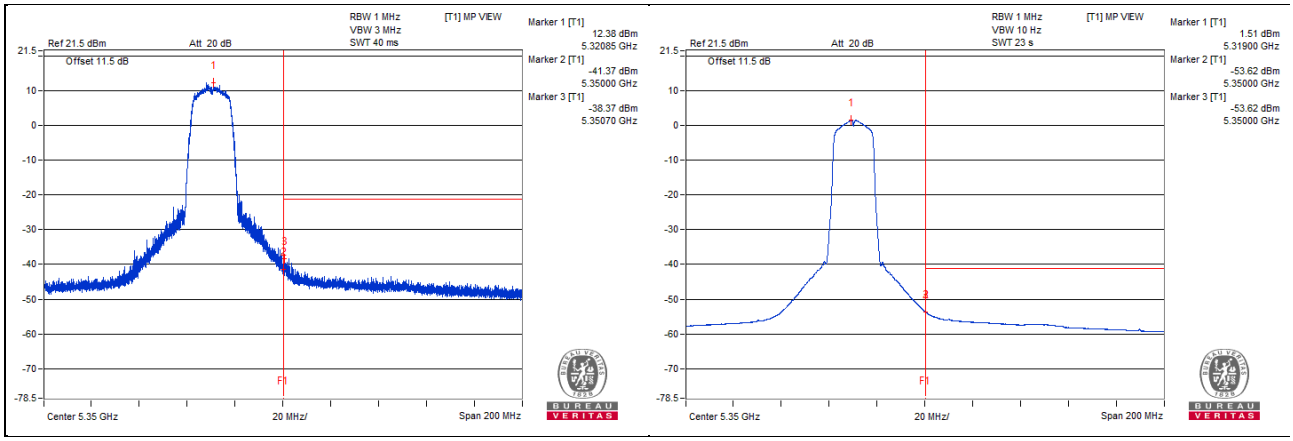
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5350.7 PK	60.33	74	-13.67	-38.37	3.44	-34.93
2	5350 AV	45.08	54	-8.92	-53.62	3.44	-50.18

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

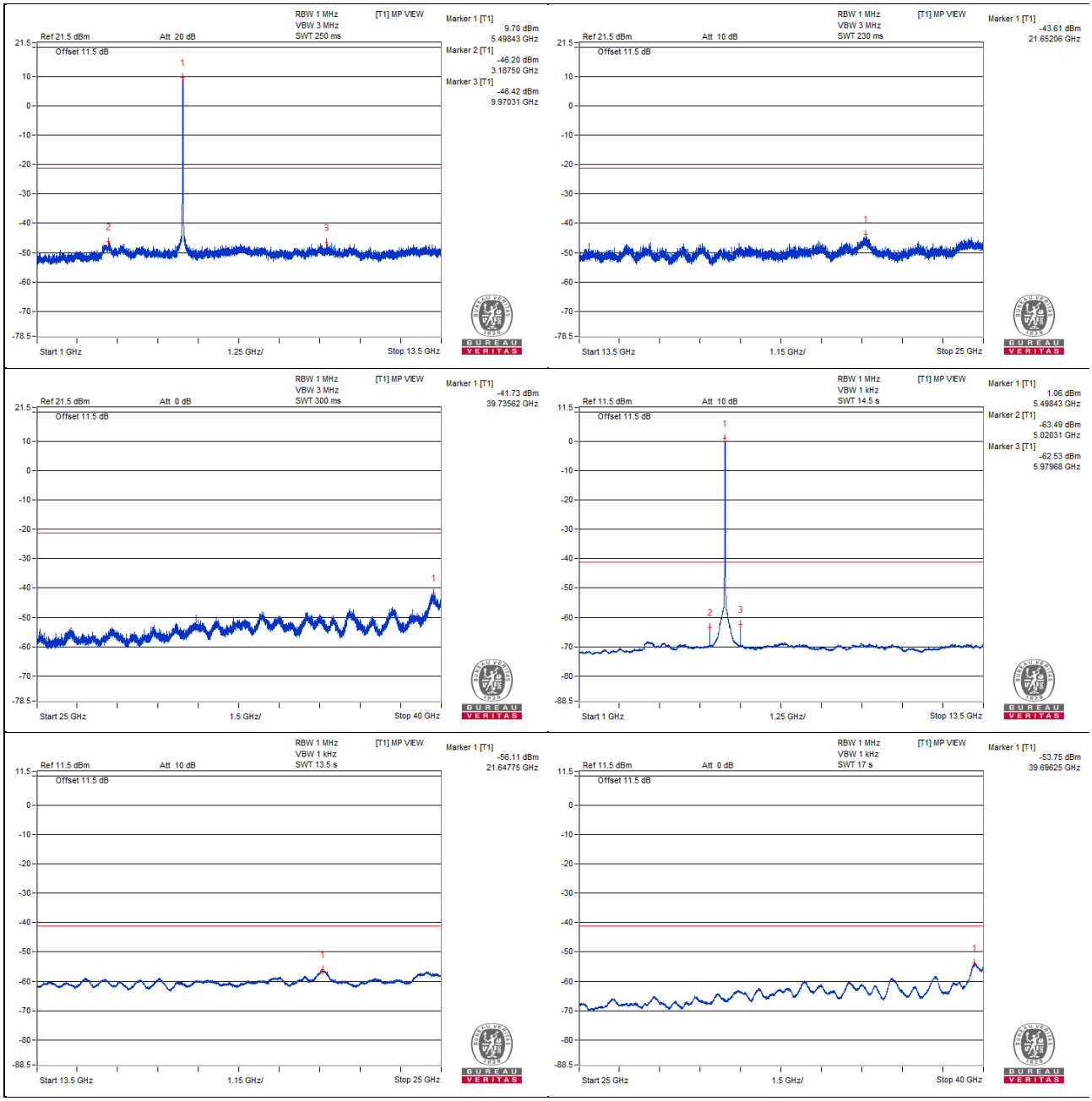


802.11a - Channel 100

Conducted spurious emission table

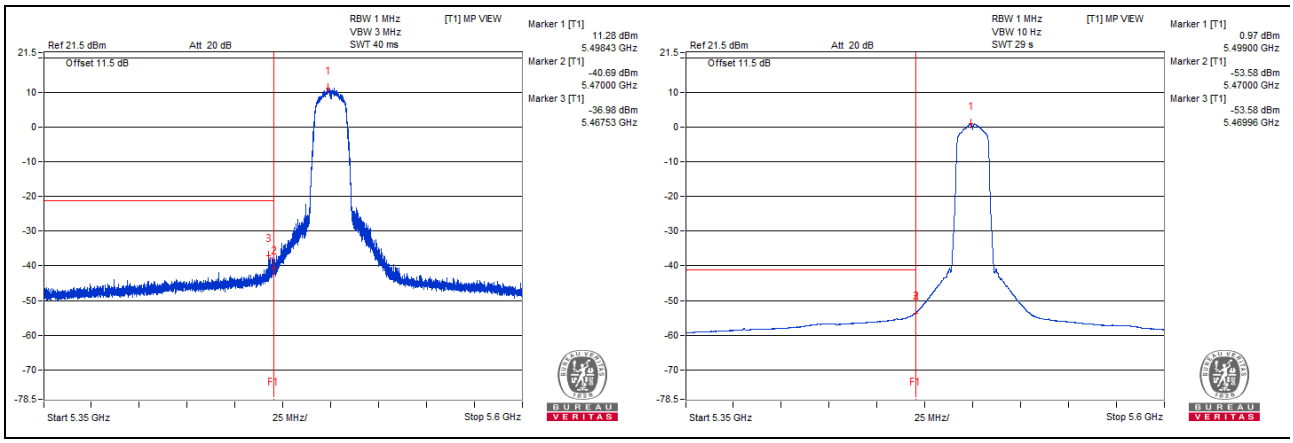
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5498.43 PK	108.79	*		9.7	3.83	13.53
2	3187.5 PK	52.89	68.2	-15.31	-46.2	3.83	-42.37
3	9970.31 PK	52.67	68.2	-15.53	-46.42	3.83	-42.59
4	21652.06 PK	55.48	68.2	-12.72	-43.61	3.83	-39.78
5	39735.62 PK	57.36	74	-16.64	-41.73	3.83	-37.9
6	5498.43 AV	100.15	*		1.06	3.83	4.89
7	5020.31 AV	35.6	54	-18.4	-63.49	3.83	-59.66
8	5979.68 AV	36.56	#		-62.53	3.83	-58.7
9	21647.75 AV	42.98	#		-56.11	3.83	-52.28
10	39696.25 AV	45.34	54	-8.66	-53.75	3.83	-49.92

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.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
9.70 dBm
5.49843 GHz
Marker 2 [T1]
-46.20 dBm
3.18750 GHz
Marker 3 [T1]
-46.42 dBm
9.97031 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-43.61 dBm
21.65206 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.73 dBm
39.73562 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
1.06 dBm
5.49843 GHz
Marker 2 [T1]
-63.49 dBm
5.02031 GHz
Marker 3 [T1]
-62.53 dBm
5.97968 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.11 dBm
21.64775 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.75 dBm
39.69625 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5467.53 PK	62.11	68.2	-6.09	-36.98	3.83	-33.15

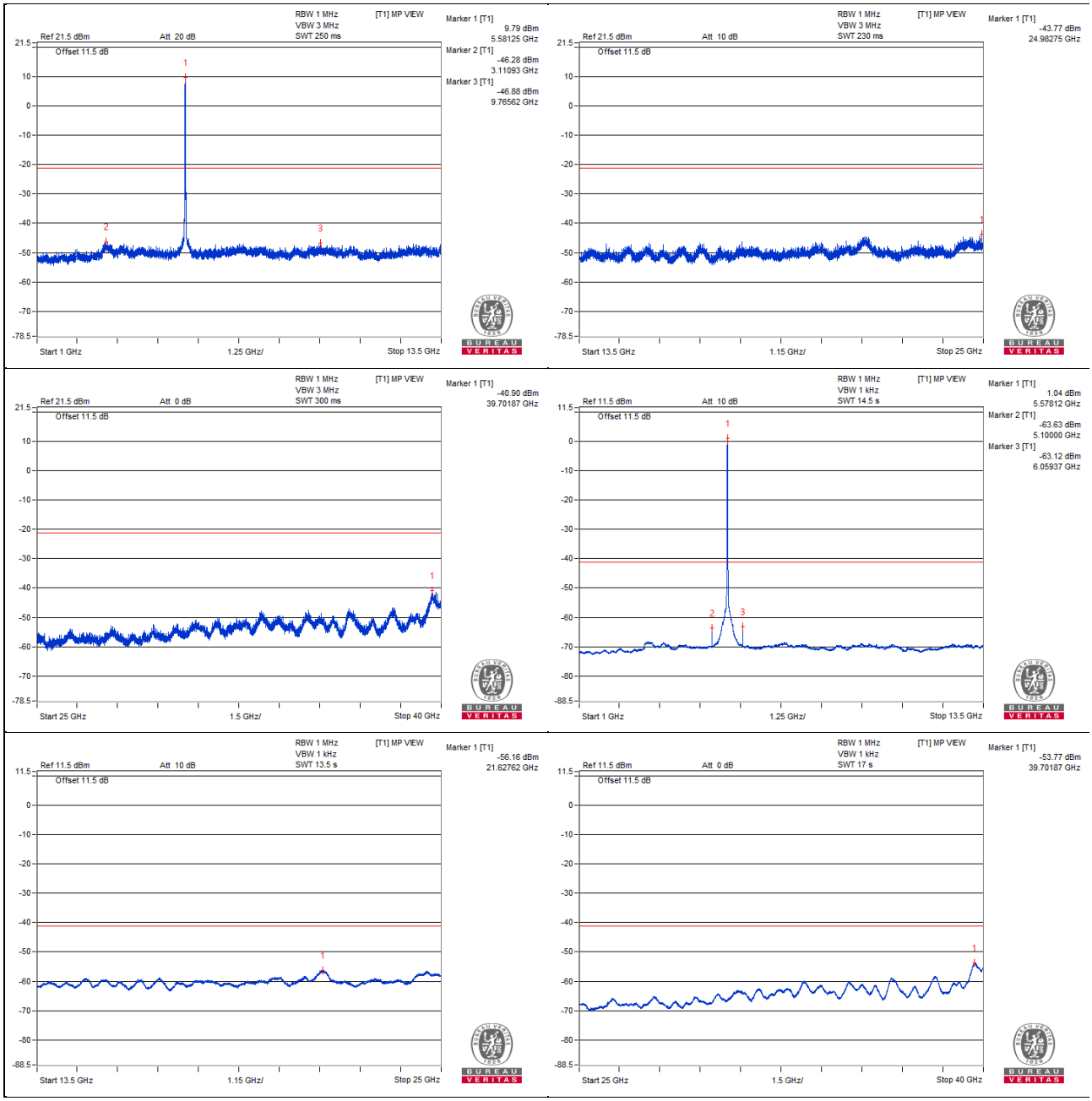


802.11a - Channel 116

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	108.88	*		9.79	3.83	13.62
2	3110.93 PK	52.81	68.2	-15.39	-46.28	3.83	-42.45
3	9765.62 PK	52.21	68.2	-15.99	-46.88	3.83	-43.05
4	24982.75 PK	55.32	68.2	-12.88	-43.77	3.83	-39.94
5	39701.87 PK	58.19	74	-15.81	-40.9	3.83	-37.07
6	5578.12 AV	100.13	*		1.04	3.83	4.87
7	5100 AV	35.46	54	-18.54	-63.63	3.83	-59.8
8	6059.37 AV	35.97	#		-63.12	3.83	-59.29
9	21627.62 AV	42.93	#		-56.16	3.83	-52.33
10	39701.87 AV	45.32	54	-8.68	-53.77	3.83	-49.94

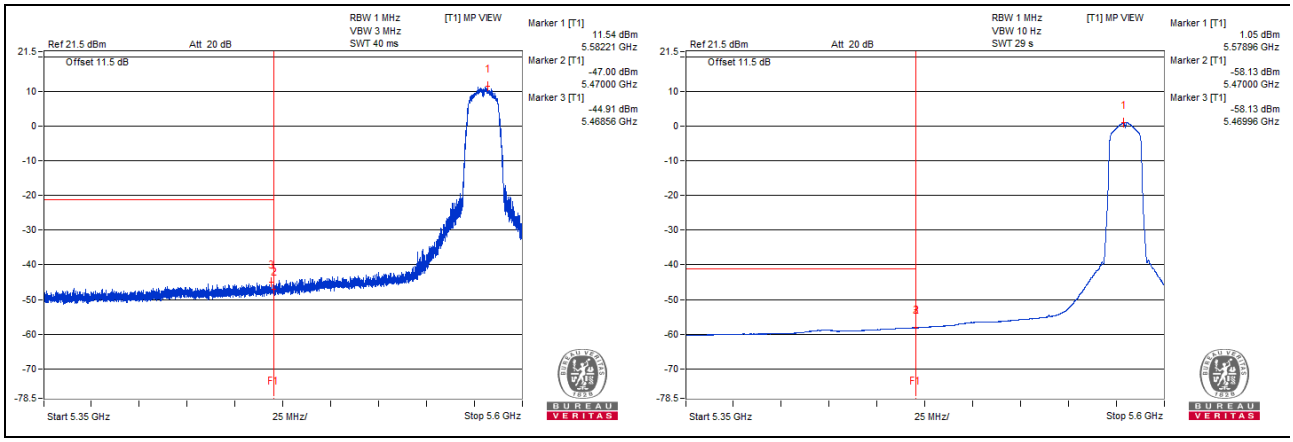
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
9.79 dBm
5.58125 GHz
Marker 2 [T1]
-46.28 dBm
3.11093 GHz
Marker 3 [T1]
-46.88 dBm
9.76562 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-43.77 dBm
24.98275 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-40.90 dBm
39.70187 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
1.04 dBm
5.57812 GHz
Marker 2 [T1]
-63.63 dBm
5.10000 GHz
Marker 3 [T1]
-63.12 dBm
6.05937 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.16 dBm
21.62762 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.77 dBm
39.70187 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5468.56 PK	54.18	68.2	-14.02	-44.91	3.83	-41.08

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

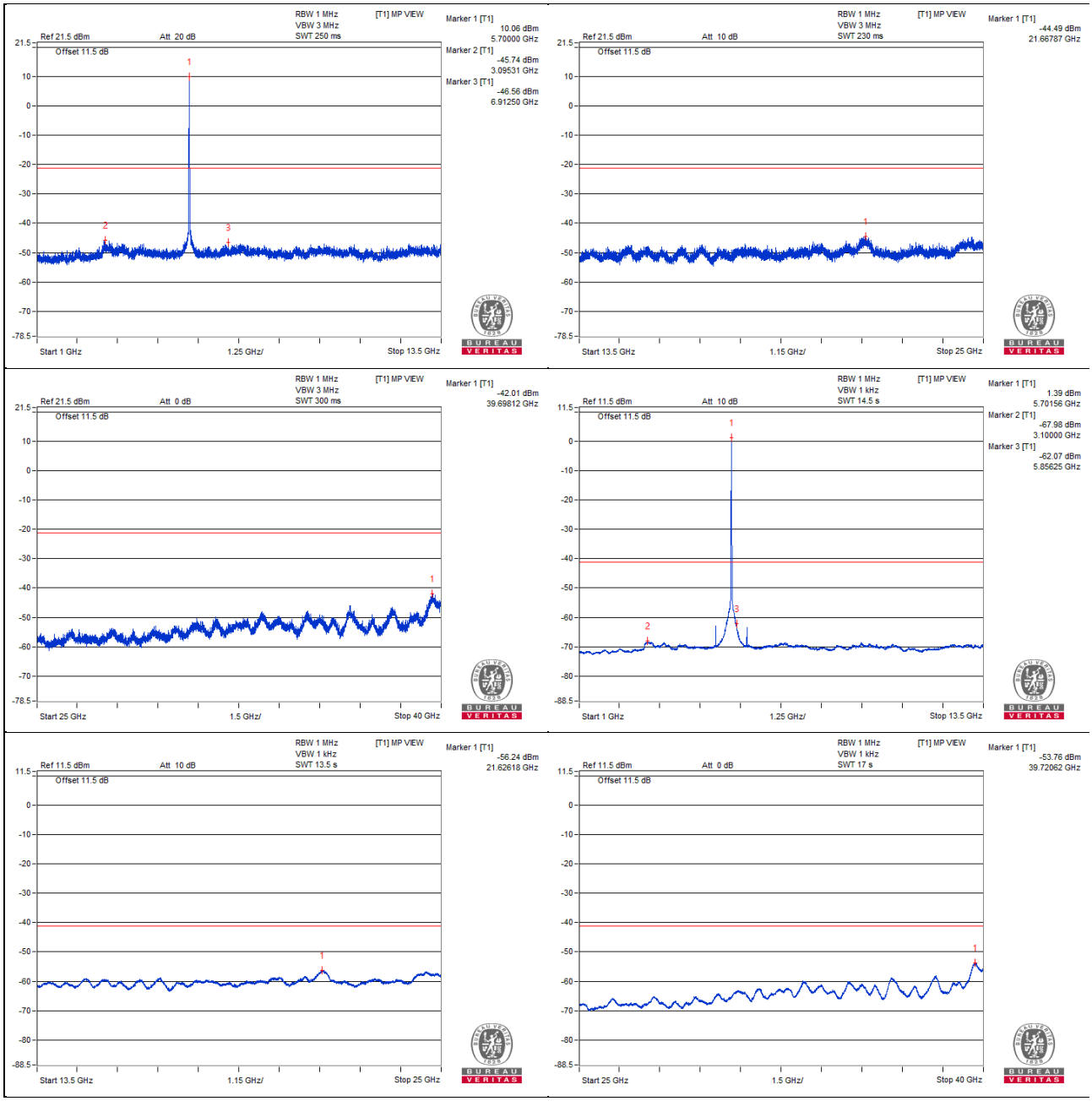


802.11a - Channel 140

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5700 PK	109.15	*		10.06	3.83	13.89
2	3095.31 PK	53.35	68.2	-14.85	-45.74	3.83	-41.91
3	6912.5 PK	52.53	68.2	-15.67	-46.56	3.83	-42.73
4	21667.87 PK	54.6	68.2	-13.6	-44.49	3.83	-40.66
5	39698.12 PK	57.08	74	-16.92	-42.01	3.83	-38.18
6	5701.56 AV	100.48	*		1.39	3.83	5.22
7	3100 AV	31.11	#		-67.98	3.83	-64.15
8	5856.25 AV	37.02	#		-62.07	3.83	-58.24
9	21626.18 AV	42.85	#		-56.24	3.83	-52.41
10	39720.62 AV	45.33	54	-8.67	-53.76	3.83	-49.93

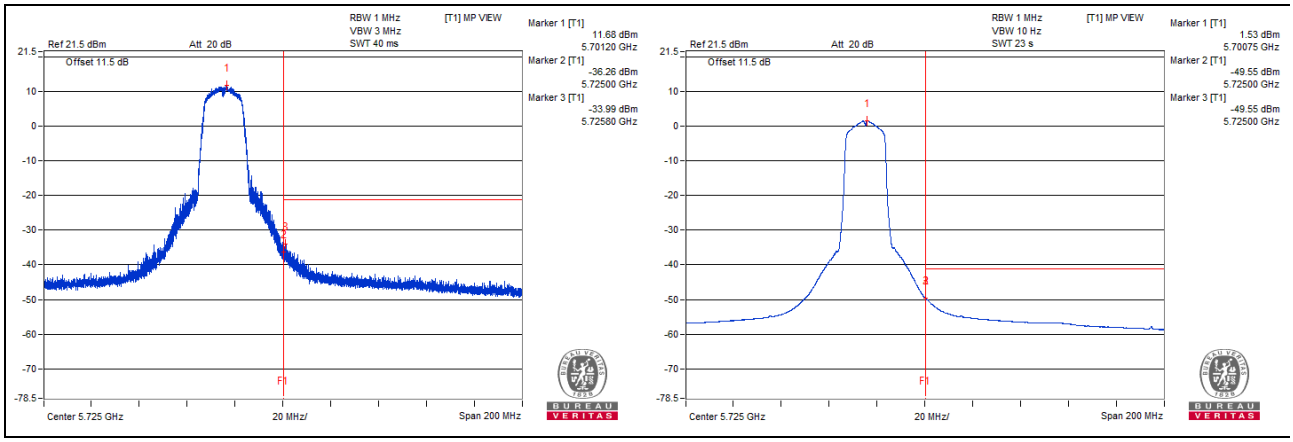
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
10.06 dBm
5.70000 GHz
Marker 2 [T1]
-45.74 dBm
3.09531 GHz
Marker 3 [T1]
-46.56 dBm
6.91250 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.49 dBm
21.66787 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-42.01 dBm
39.69812 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
1.39 dBm
5.70156 GHz
Marker 2 [T1]
-67.98 dBm
3.10000 GHz
Marker 3 [T1]
-62.07 dBm
5.85625 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.24 dBm
21.62618 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.76 dBm
39.72062 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5725.8 PK	65.1	68.2	-3.1	-33.99	3.83	-30.16

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

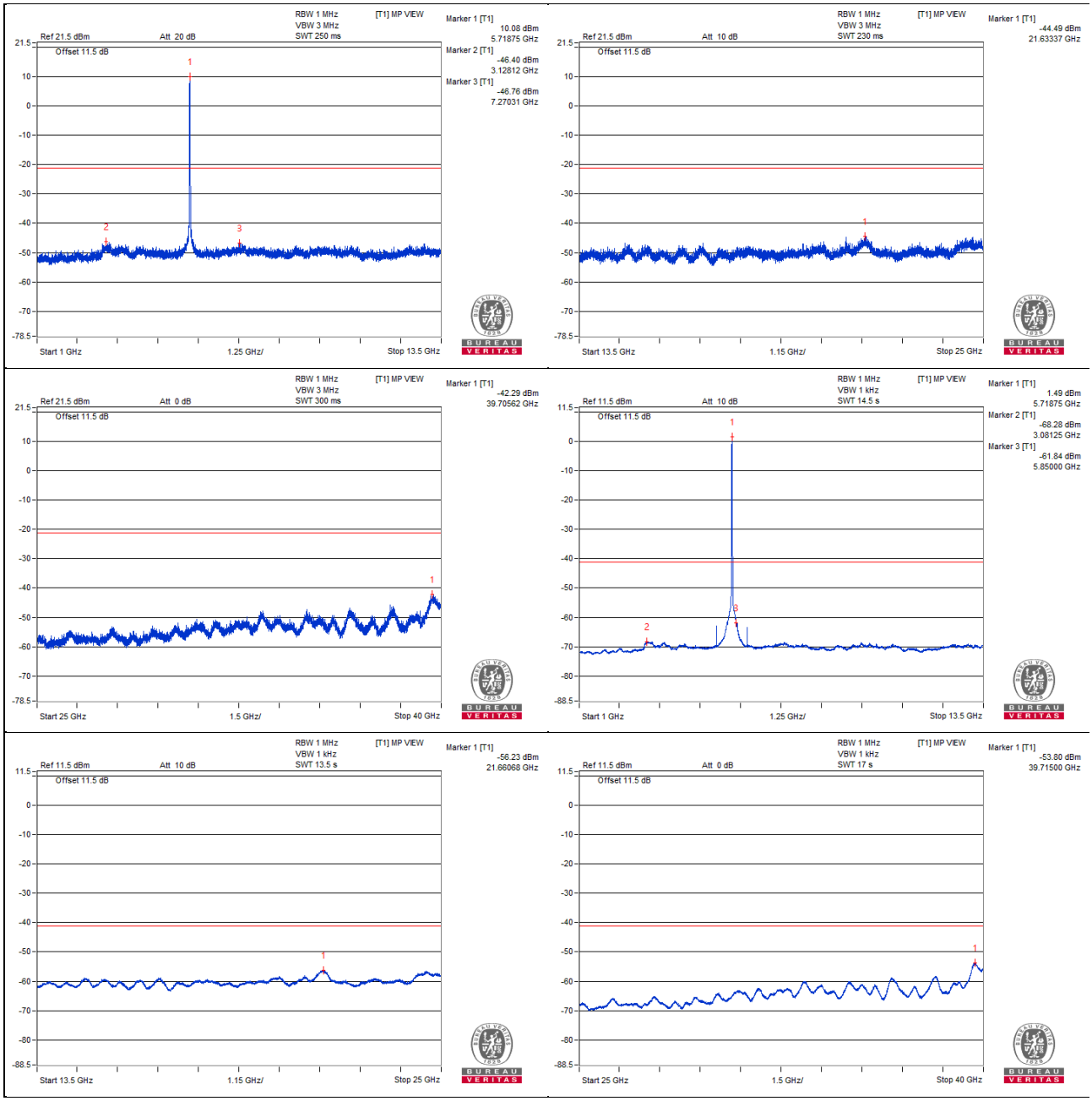


802.11a - Channel 144

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5718.75 PK	109.17	*		10.08	3.83	13.91
2	3128.12 PK	52.69	68.2	-15.51	-46.4	3.83	-42.57
3	7270.31 PK	52.33	74	-21.67	-46.76	3.83	-42.93
4	21633.37 PK	54.6	68.2	-13.6	-44.49	3.83	-40.66
5	39705.62 PK	56.8	74	-17.2	-42.29	3.83	-38.46
6	5718.75 AV	100.58	*		1.49	3.83	5.32
7	3081.25 AV	30.81	#		-68.28	3.83	-64.45
8	5850 AV	37.25	#		-61.84	3.83	-58.01
9	21660.68 AV	42.86	#		-56.23	3.83	-52.4
10	39715 AV	45.29	54	-8.71	-53.8	3.83	-49.97

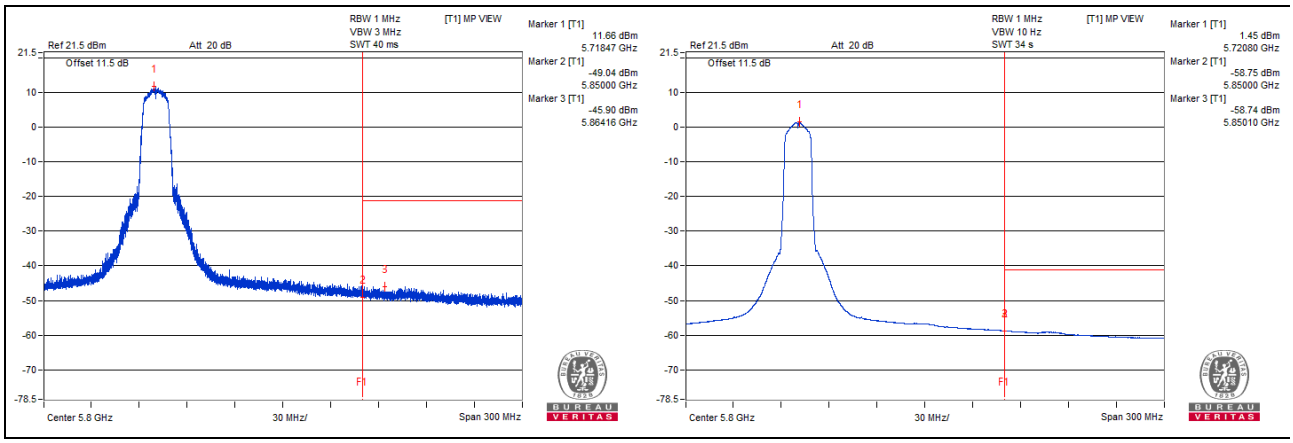
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
10.08 dBm
5.71875 GHz
Marker 2 [T1]
-46.40 dBm
3.12812 GHz
Marker 3 [T1]
-46.76 dBm
7.27031 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.49 dBm
21.63337 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-42.29 dBm
39.70562 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
1.49 dBm
5.71875 GHz
Marker 2 [T1]
-68.28 dBm
3.08125 GHz
Marker 3 [T1]
-61.84 dBm
5.85000 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.23 dBm
21.66068 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.80 dBm
39.71500 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5864.16 PK	53.19	68.2	-15.01	-45.9	3.83	-42.07

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



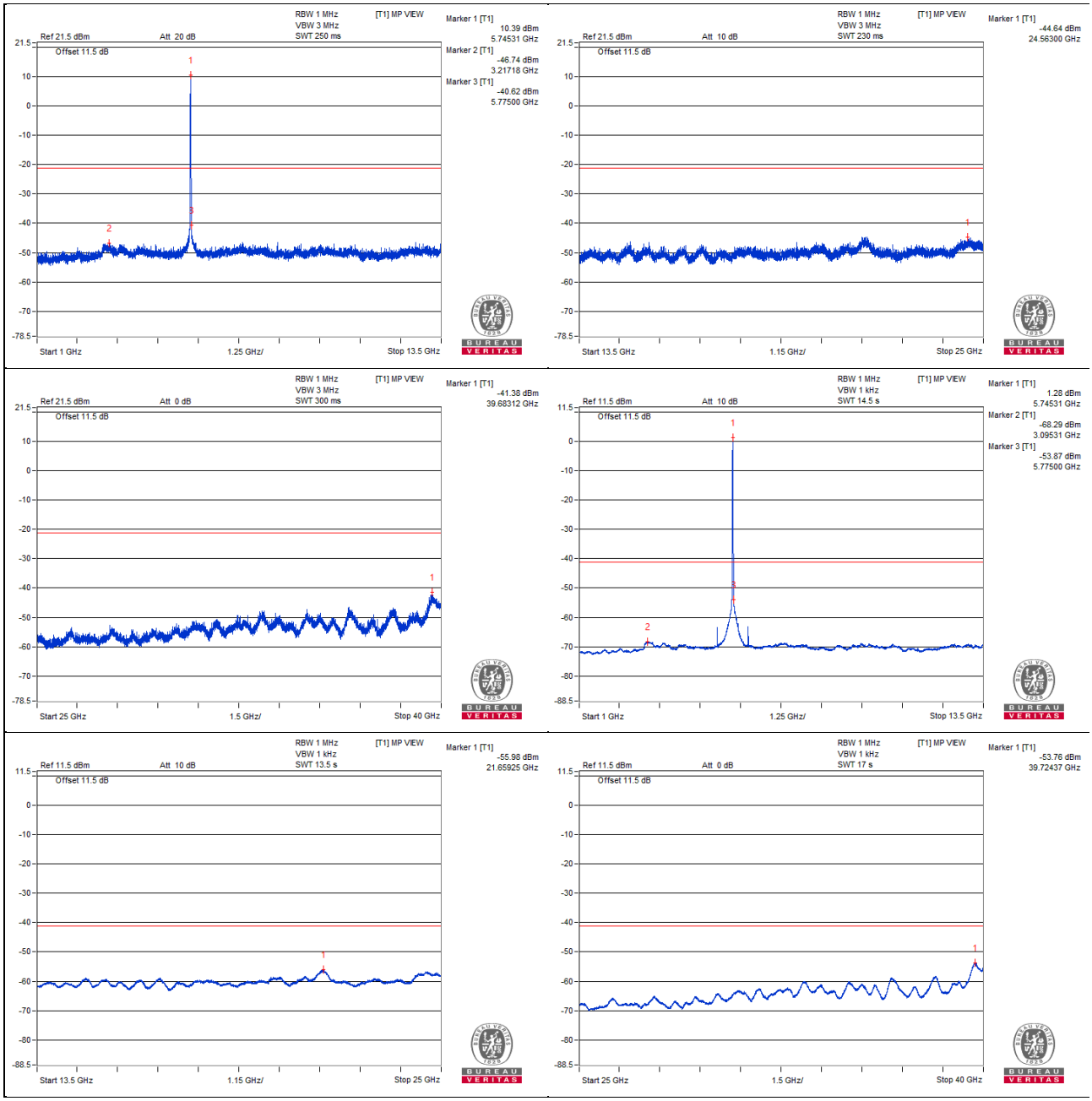
802.11a – Channel 149

Conducted spurious emission table

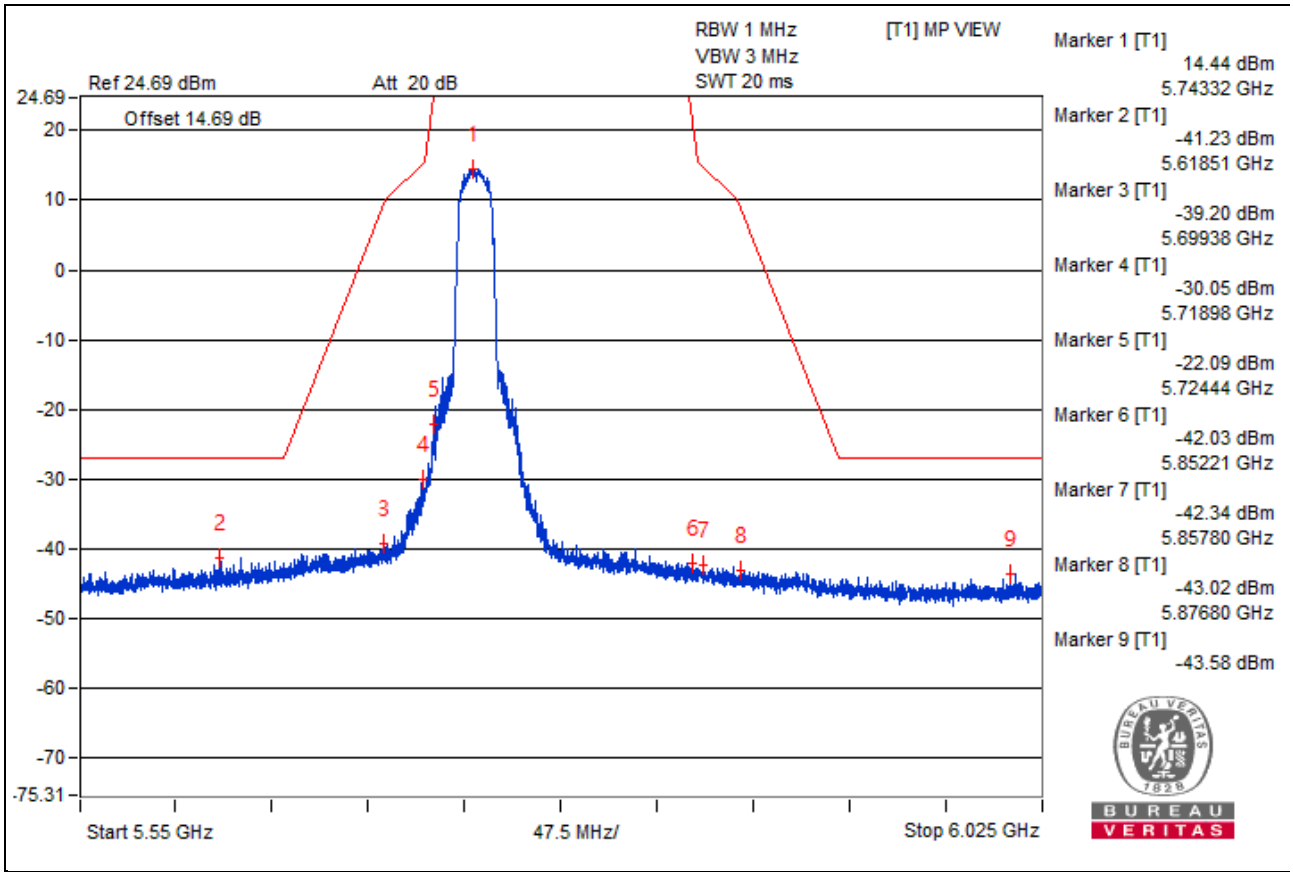
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5745.31 PK	109.48	*		10.39	3.83	14.22
2	3217.18 PK	52.35	68.2	-15.85	-46.74	3.83	-42.91
3	5775 PK	58.47	68.2	-9.73	-40.62	3.83	-36.79
4	24563 PK	54.45	68.2	-13.75	-44.64	3.83	-40.81
5	39683.12 PK	57.71	74	-16.29	-41.38	3.83	-37.55
6	5745.31 AV	100.37	*		1.28	3.83	5.11
7	3095.31 AV	30.8	#		-68.29	3.83	-64.46
8	5775 AV	45.22	#		-53.87	3.83	-50.04
9	21659.25 AV	43.11	#		-55.98	3.83	-52.15
10	39724.37 AV	45.33	54	-8.67	-53.76	3.83	-49.93

Note :

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


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
10.39 dBm
5.74531 GHz
Marker 2 [T1]
-46.74 dBm
3.21718 GHz
Marker 3 [T1]
-40.62 dBm
5.77500 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.64 dBm
24.56300 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.38 dBm
39.68312 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
1.28 dBm
5.74531 GHz
Marker 2 [T1]
-68.29 dBm
3.09531 GHz
Marker 3 [T1]
-53.87 dBm
5.77500 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-55.98 dBm
21.65925 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.76 dBm
39.72437 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.19 dBi).
2. The test results were EIRP.

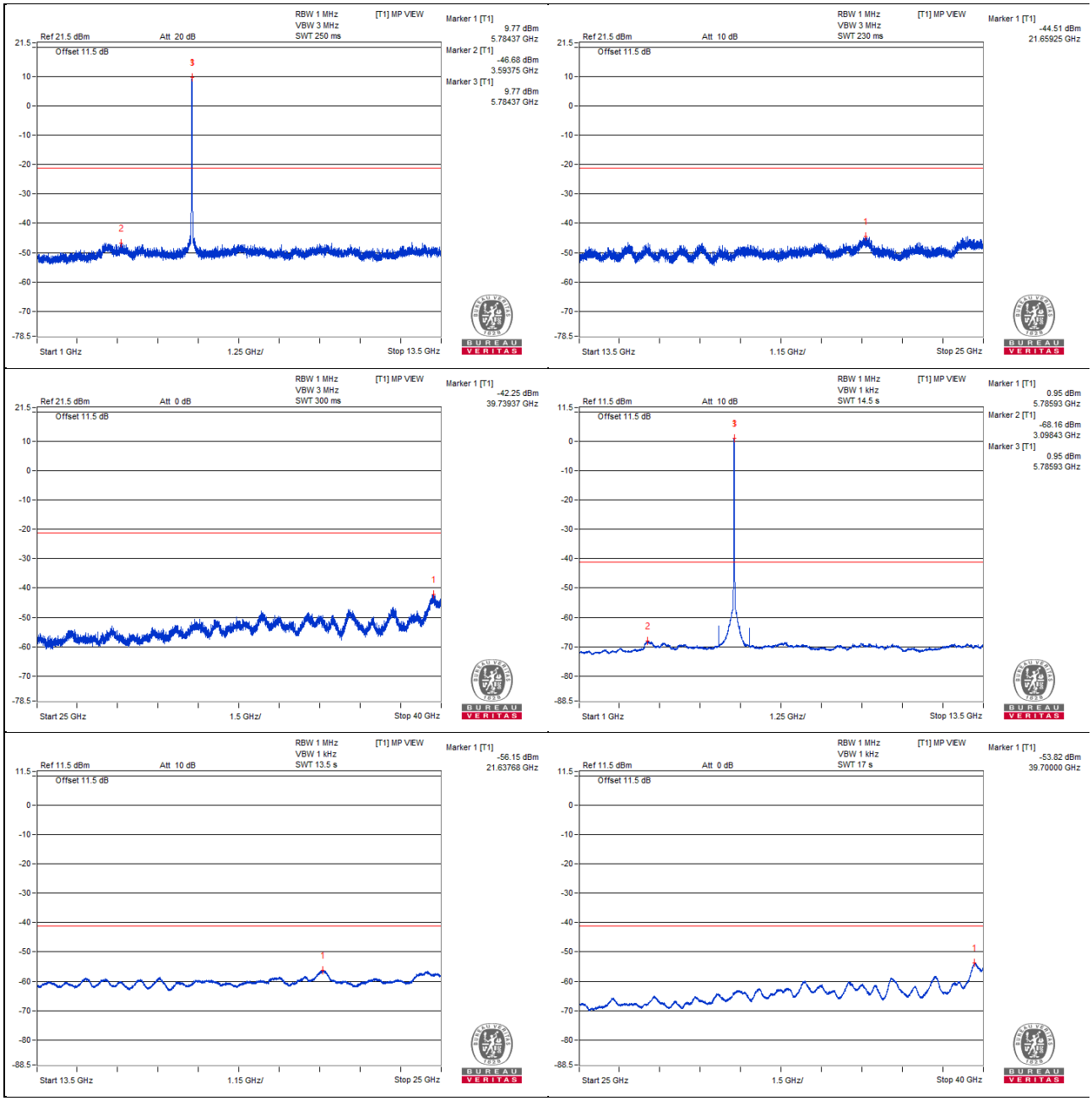
802.11a – Channel 157

Conducted spurious emission table

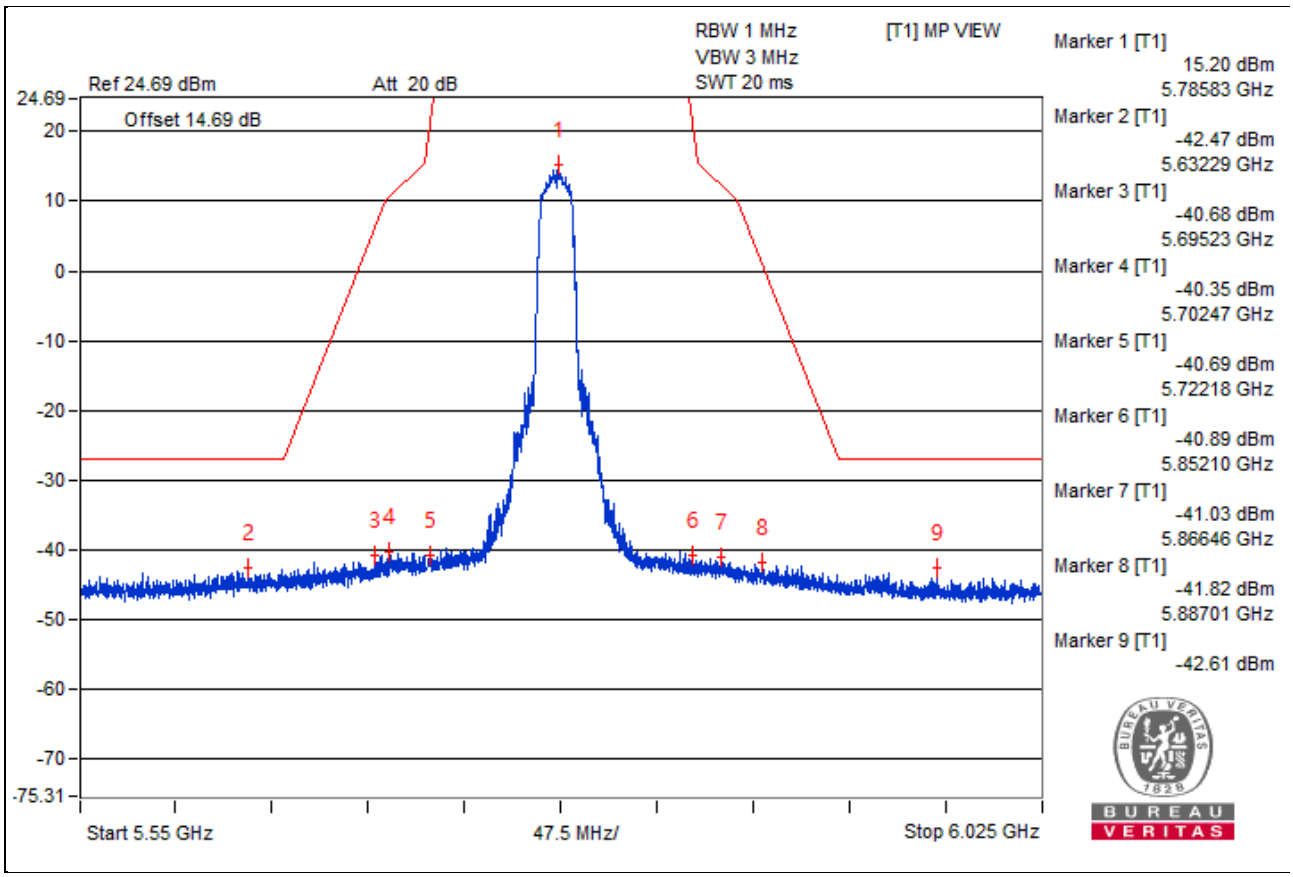
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5784.37 PK	108.86	*		9.77	3.83	13.6
2	3593.75 PK	52.41	74	-21.59	-46.68	3.83	-42.85
3	5784.37 PK	108.86	*		9.77	3.83	13.6
4	21659.25 PK	54.58	68.2	-13.62	-44.51	3.83	-40.68
5	39739.37 PK	56.84	74	-17.16	-42.25	3.83	-38.42
6	5785.93 AV	100.04	*		0.95	3.83	4.78
7	3098.43 AV	30.93	#		-68.16	3.83	-64.33
8	5785.93 AV	100.04	*		0.95	3.83	4.78
9	21637.68 AV	42.94	#		-56.15	3.83	-52.32
10	39700 AV	45.27	54	-8.73	-53.82	3.83	-49.99

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.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
9.77 dBm
5.78437 GHz
Marker 2 [T1]
-46.68 dBm
3.59375 GHz
Marker 3 [T1]
9.77 dBm
5.78437 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.51 dBm
21.65925 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-42.25 dBm
39.73937 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
0.95 dBm
5.78593 GHz
Marker 2 [T1]
-68.16 dBm
3.09843 GHz
Marker 3 [T1]
0.95 dBm
5.78593 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.15 dBm
21.63768 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.82 dBm
39.70000 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.19 dBi).
2. The test results were EIRP.

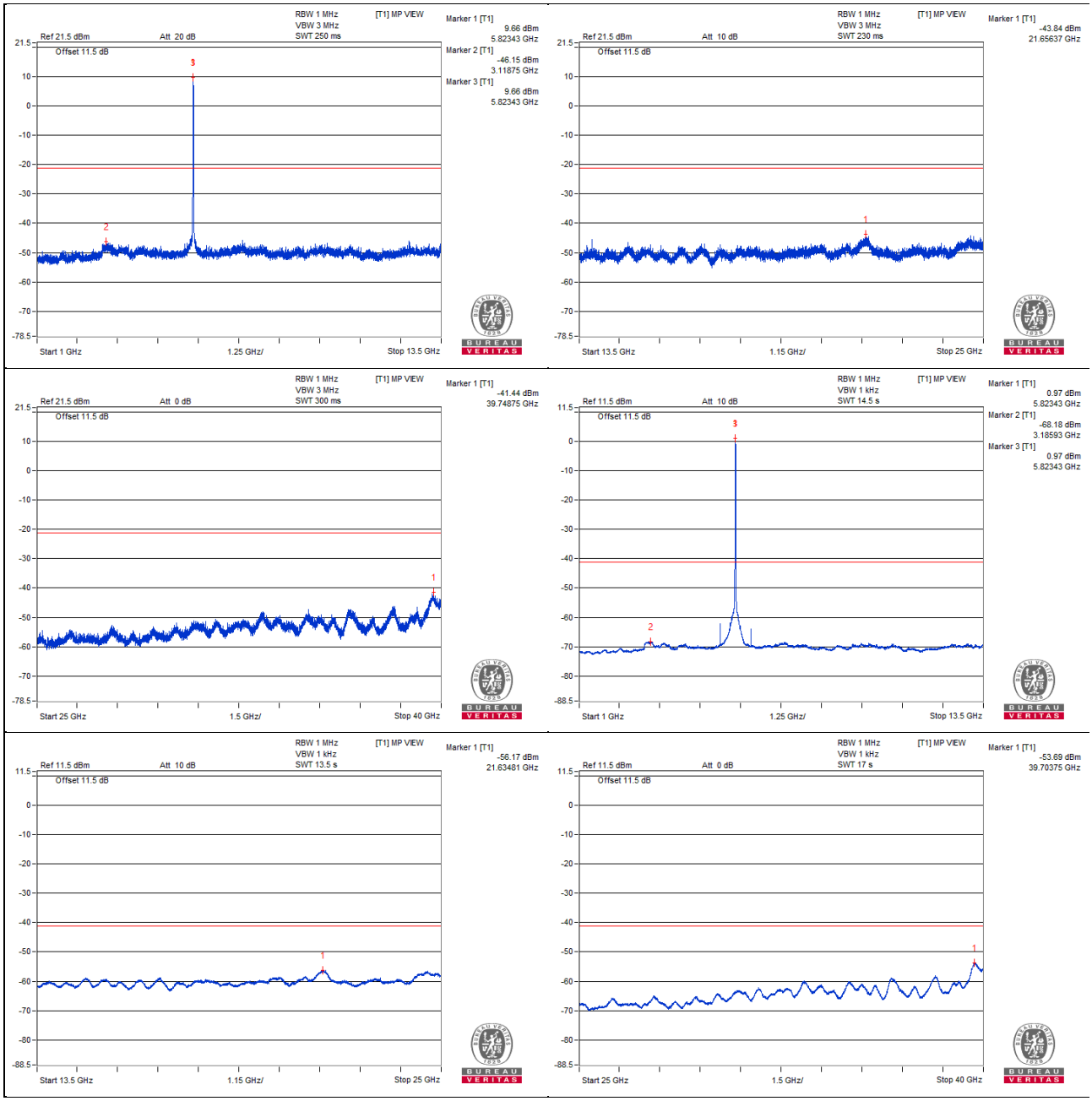
802.11a – Channel 165

Conducted spurious emission table

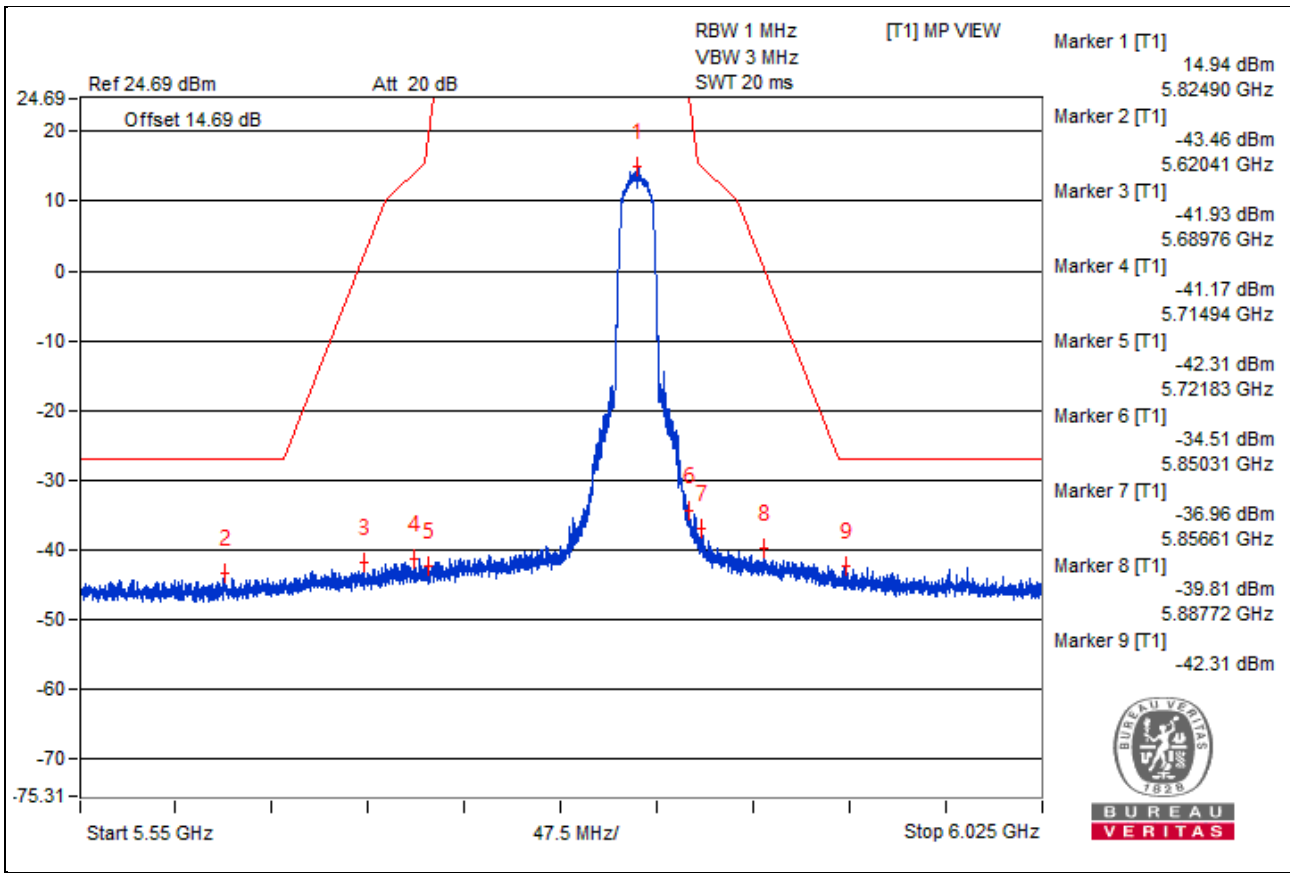
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5823.43 PK	108.75	*		9.66	3.83	13.49
2	3118.75 PK	52.94	68.2	-15.26	-46.15	3.83	-42.32
3	5823.43 PK	108.75	*		9.66	3.83	13.49
4	21656.37 PK	55.25	68.2	-12.95	-43.84	3.83	-40.01
5	39748.75 PK	57.65	74	-16.35	-41.44	3.83	-37.61
6	5823.43 AV	100.06	*		0.97	3.83	4.8
7	3185.93 AV	30.91	#		-68.18	3.83	-64.35
8	5823.43 AV	100.06	*		0.97	3.83	4.8
9	21634.81 AV	42.92	#		-56.17	3.83	-52.34
10	39703.75 AV	45.4	54	-8.6	-53.69	3.83	-49.86

Note :

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


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
9.66 dBm
5.82343 GHz
Marker 2 [T1]
-46.15 dBm
3.11875 GHz
Marker 3 [T1]
9.66 dBm
5.82343 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-43.84 dBm
21.65637 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.44 dBm
39.74875 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
0.97 dBm
5.82343 GHz
Marker 2 [T1]
-68.18 dBm
3.18593 GHz
Marker 3 [T1]
0.97 dBm
5.82343 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.17 dBm
21.63481 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.69 dBm
39.70375 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table



Note:

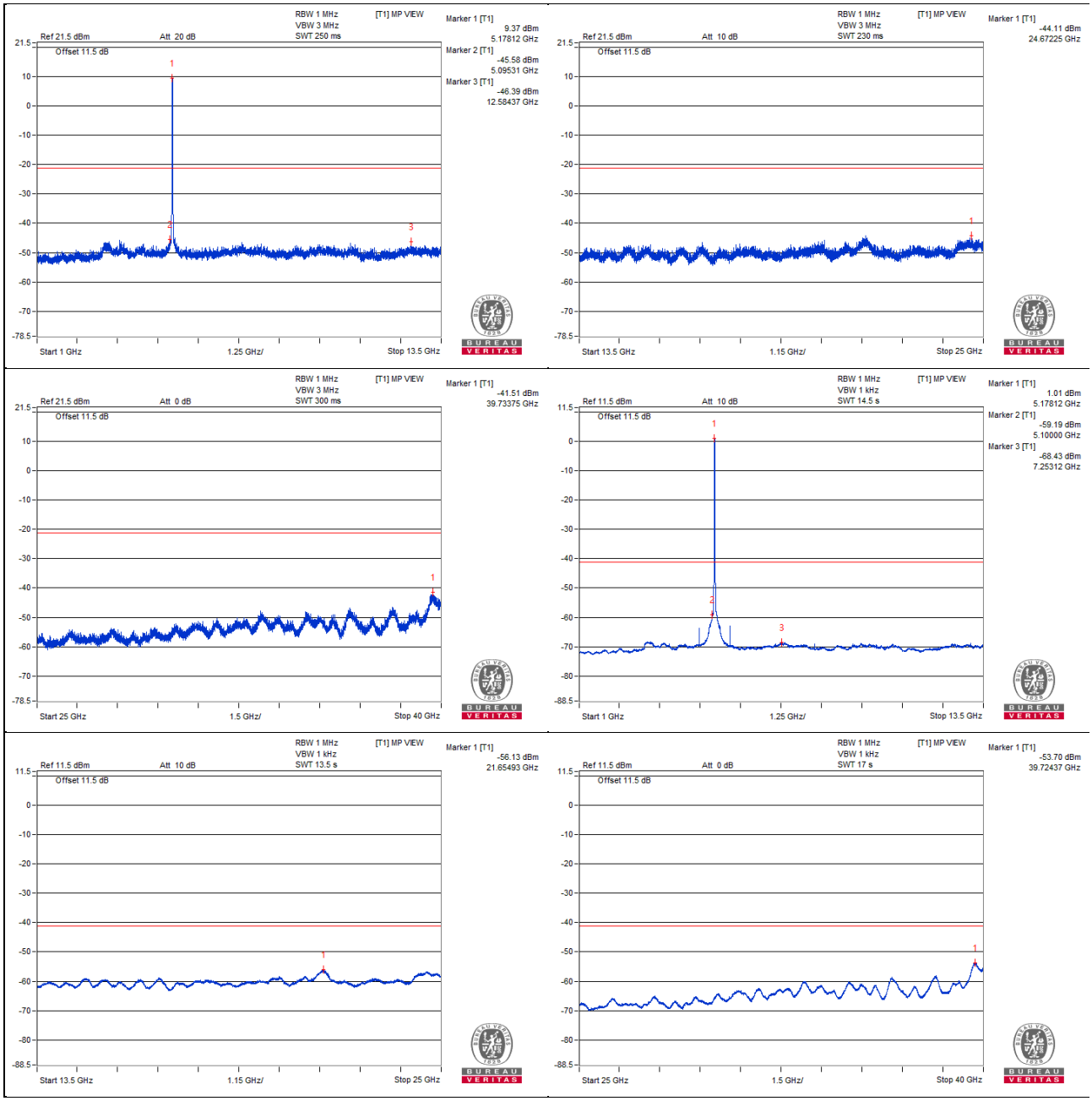
1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.19 dBi).
2. The test results were EIRP.

802.11ac (VHT20) - Channel 36

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5178.12 PK	108.46	*		9.37	3.83	13.2
2	5095.31 PK	53.51	74	-20.49	-45.58	3.83	-41.75
3	12584.37 PK	52.7	74	-21.3	-46.39	3.83	-42.56
4	24672.25 PK	54.98	68.2	-13.22	-44.11	3.83	-40.28
5	39733.75 PK	57.58	74	-16.42	-41.51	3.83	-37.68
6	5178.12 AV	100.1	*		1.01	3.83	4.84
7	5100 AV	39.9	54	-14.1	-59.19	3.83	-55.36
8	7253.12 AV	30.66	54	-23.34	-68.43	3.83	-64.6
9	21654.93 AV	42.96	#		-56.13	3.83	-52.3
10	39724.37 AV	45.39	54	-8.61	-53.7	3.83	-49.87

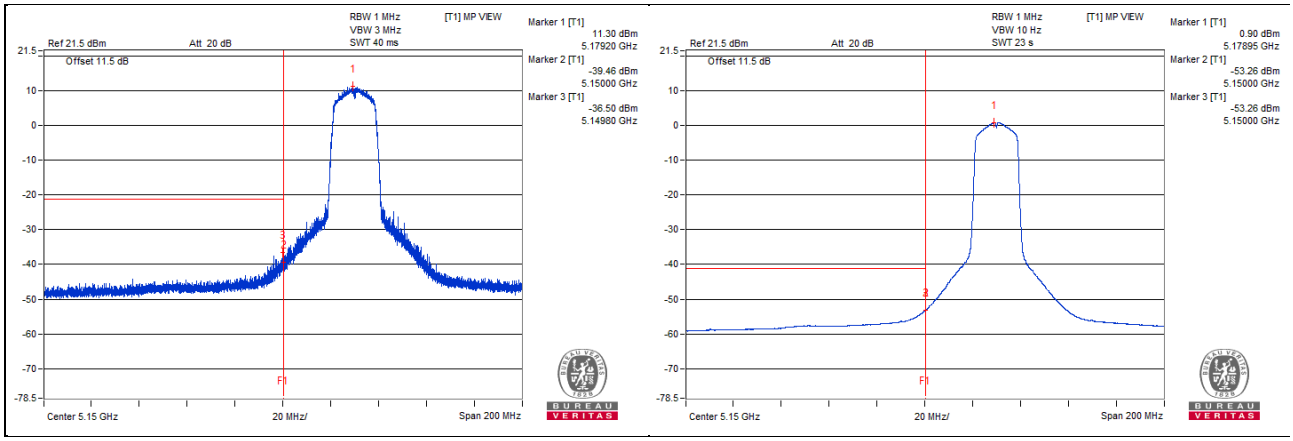
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
9.37 dBm
5.17812 GHz
Marker 2 [T1]
-45.58 dBm
5.09531 GHz
Marker 3 [T1]
-46.39 dBm
12.58437 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.11 dBm
24.67225 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.51 dBm
39.73375 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
1.01 dBm
5.17812 GHz
Marker 2 [T1]
-59.19 dBm
5.10000 GHz
Marker 3 [T1]
-68.43 dBm
7.25312 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.13 dBm
21.65493 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.70 dBm
39.72437 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5149.8 PK	61.82	74	-12.18	-36.5	3.06	-33.44
2	5150 AV	45.06	54	-8.94	-53.26	3.06	-50.2

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

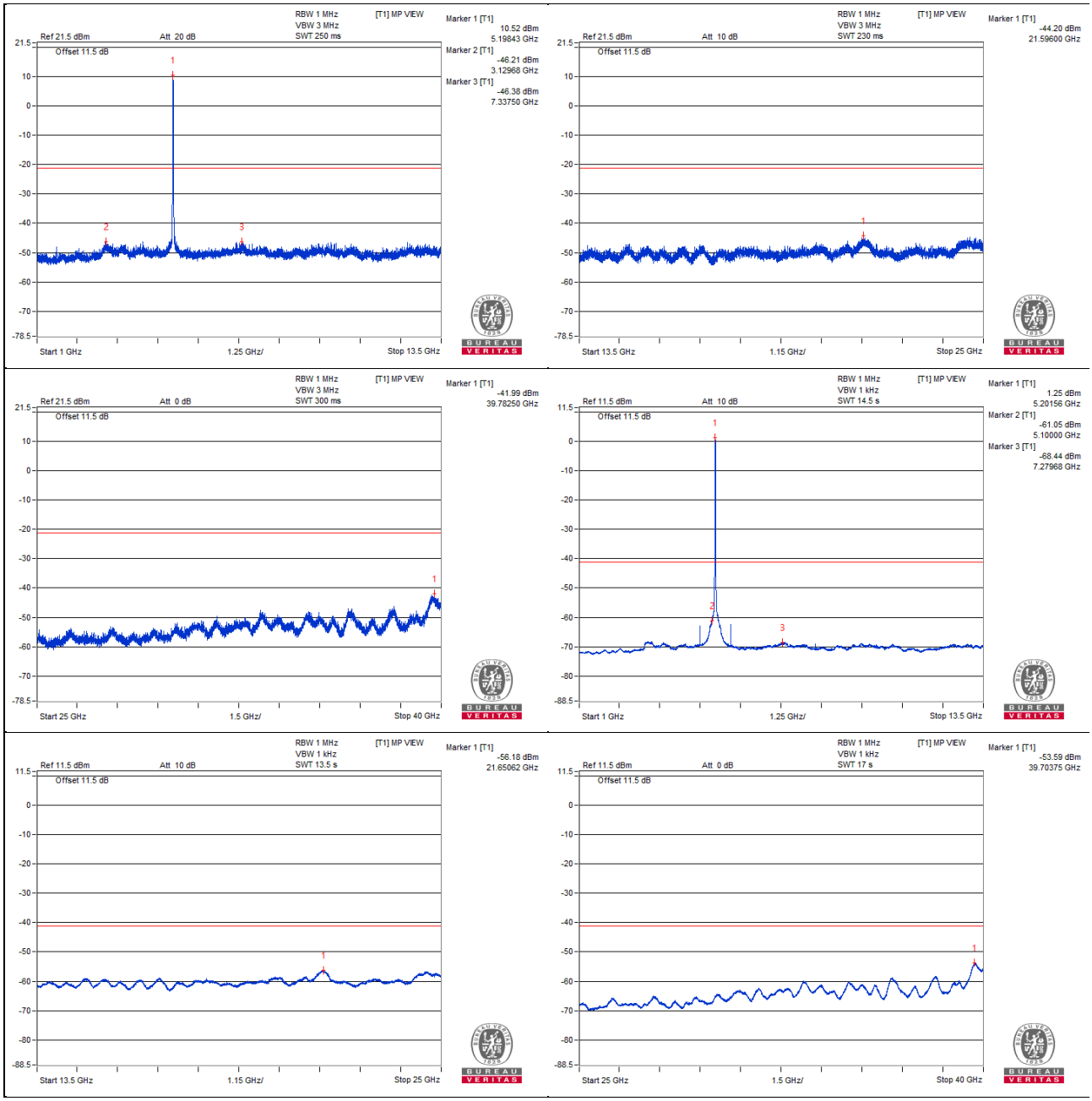


802.11ac (VHT20) - Channel 40

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5198.43 PK	109.61	*		10.52	3.83	14.35
2	3129.68 PK	52.88	68.2	-15.32	-46.21	3.83	-42.38
3	7337.5 PK	52.71	74	-21.29	-46.38	3.83	-42.55
4	21596 PK	54.89	68.2	-13.31	-44.2	3.83	-40.37
5	39782.5 PK	57.1	74	-16.9	-41.99	3.83	-38.16
6	5201.56 AV	100.34	*		1.25	3.83	5.08
7	5100 AV	38.04	54	-15.96	-61.05	3.83	-57.22
8	7279.68 AV	30.65	54	-23.35	-68.44	3.83	-64.61
9	21650.62 AV	42.91	#		-56.18	3.83	-52.35
10	39703.75 AV	45.5	54	-8.5	-53.59	3.83	-49.76

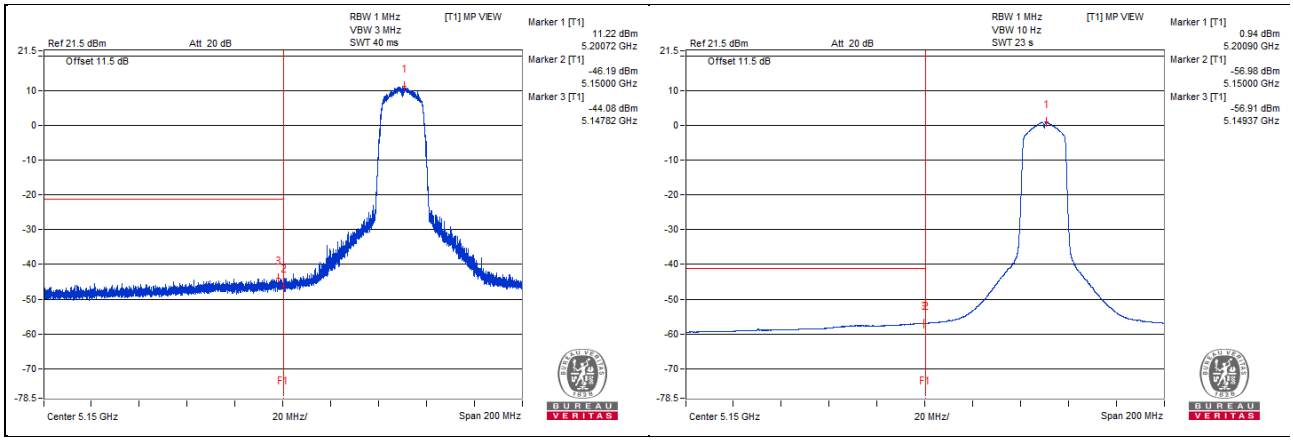
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
10.52 dBm
5.19843 GHz
Marker 2 [T1]
-46.21 dBm
3.12968 GHz
Marker 3 [T1]
-46.38 dBm
7.33750 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.20 dBm
21.59600 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.99 dBm
39.78250 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
1.25 dBm
5.20156 GHz
Marker 2 [T1]
-61.05 dBm
5.10000 GHz
Marker 3 [T1]
-68.44 dBm
7.27968 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.18 dBm
21.65062 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.59 dBm
39.70375 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5147.82 PK	54.24	74	-19.76	-44.08	3.06	-41.02
2	5149.37 AV	41.41	54	-12.59	-56.91	3.06	-53.85

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

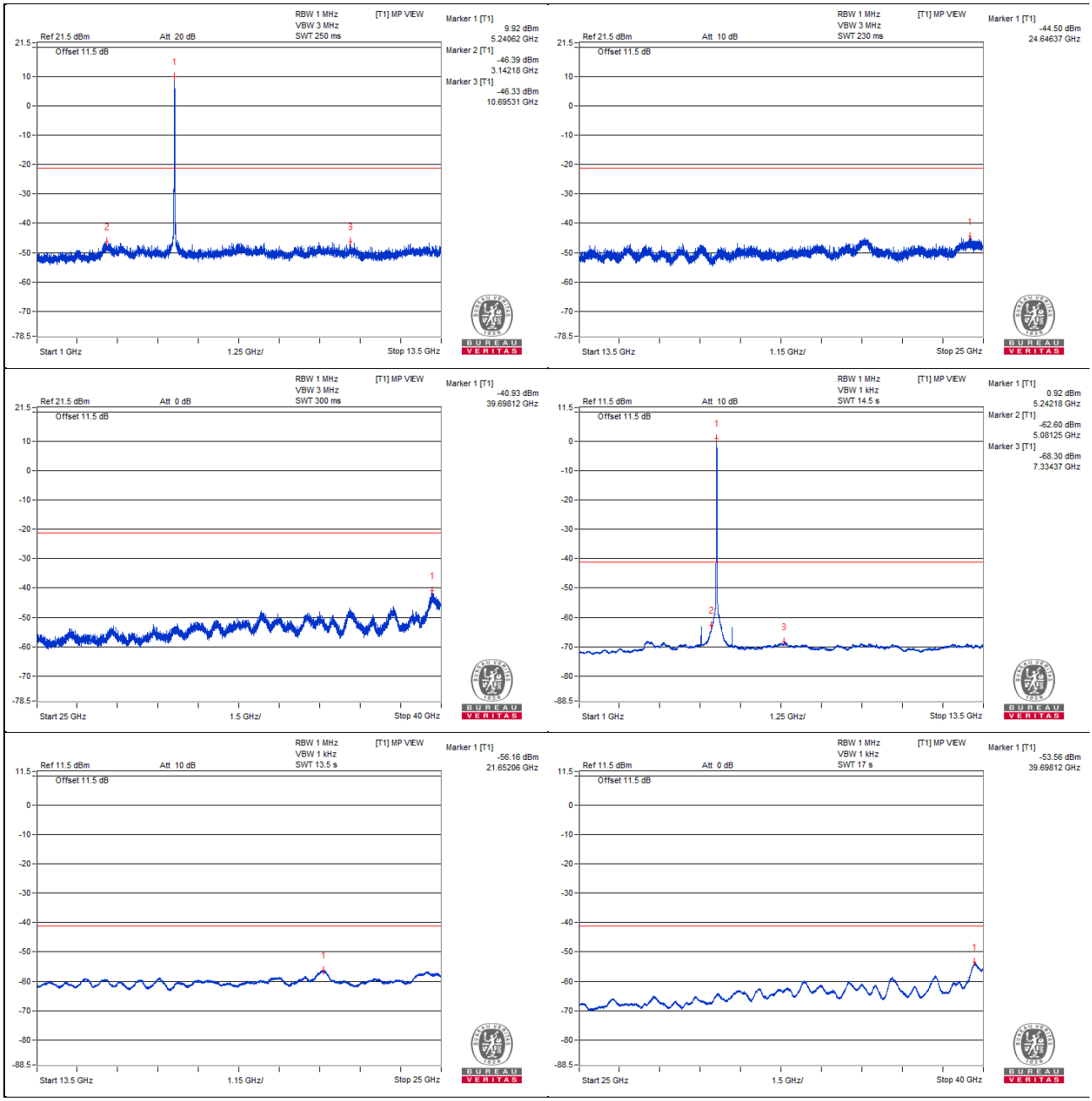


802.11ac (VHT20) - Channel 48

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5240.62 PK	109.01	*		9.92	3.83	13.75
2	3142.18 PK	52.7	68.2	-15.5	-46.39	3.83	-42.56
3	10695.31 PK	52.76	74	-21.24	-46.33	3.83	-42.5
4	24646.37 PK	54.59	68.2	-13.61	-44.5	3.83	-40.67
5	39698.12 PK	58.16	74	-15.84	-40.93	3.83	-37.1
6	5242.18 AV	100.01	*		0.92	3.83	4.75
7	5081.25 AV	36.49	54	-17.51	-62.6	3.83	-58.77
8	7334.37 AV	30.79	54	-23.21	-68.3	3.83	-64.47
9	21652.06 AV	42.93	#		-56.16	3.83	-52.33
10	39698.12 AV	45.53	54	-8.47	-53.56	3.83	-49.73

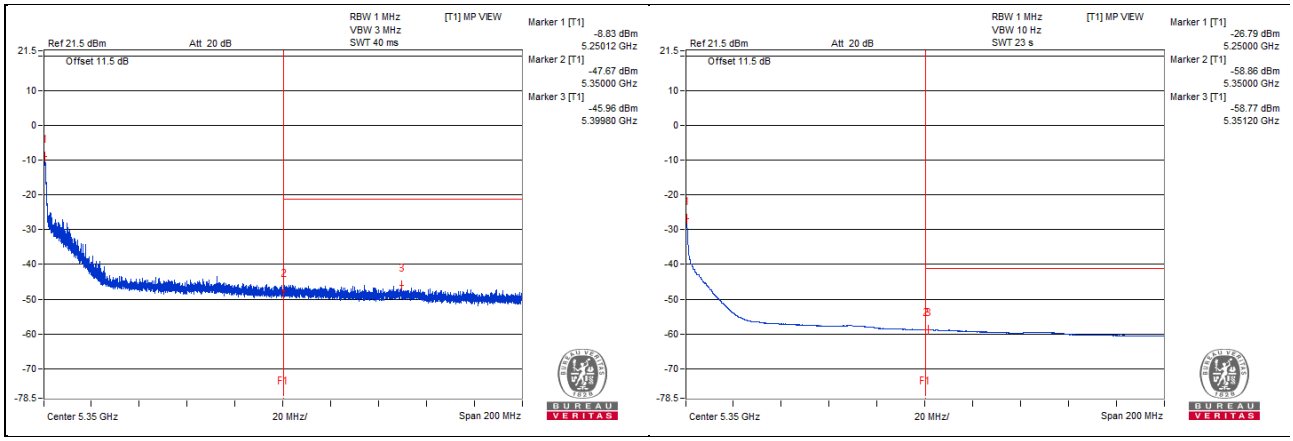
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
9.92 dBm
5.24062 GHz
Marker 2 [T1]
-46.39 dBm
3.14218 GHz
Marker 3 [T1]
-46.33 dBm
10.69531 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.50 dBm
24.64637 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-40.93 dBm
39.69812 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
0.92 dBm
5.24218 GHz
Marker 2 [T1]
-62.60 dBm
5.08125 GHz
Marker 3 [T1]
-68.30 dBm
7.33437 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.16 dBm
21.65206 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.56 dBm
39.69812 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5135 PK	53.04	74	-20.96	-45.28	3.06	-42.22
2	5149.4 AV	39.78	54	-14.22	-58.54	3.06	-55.48

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

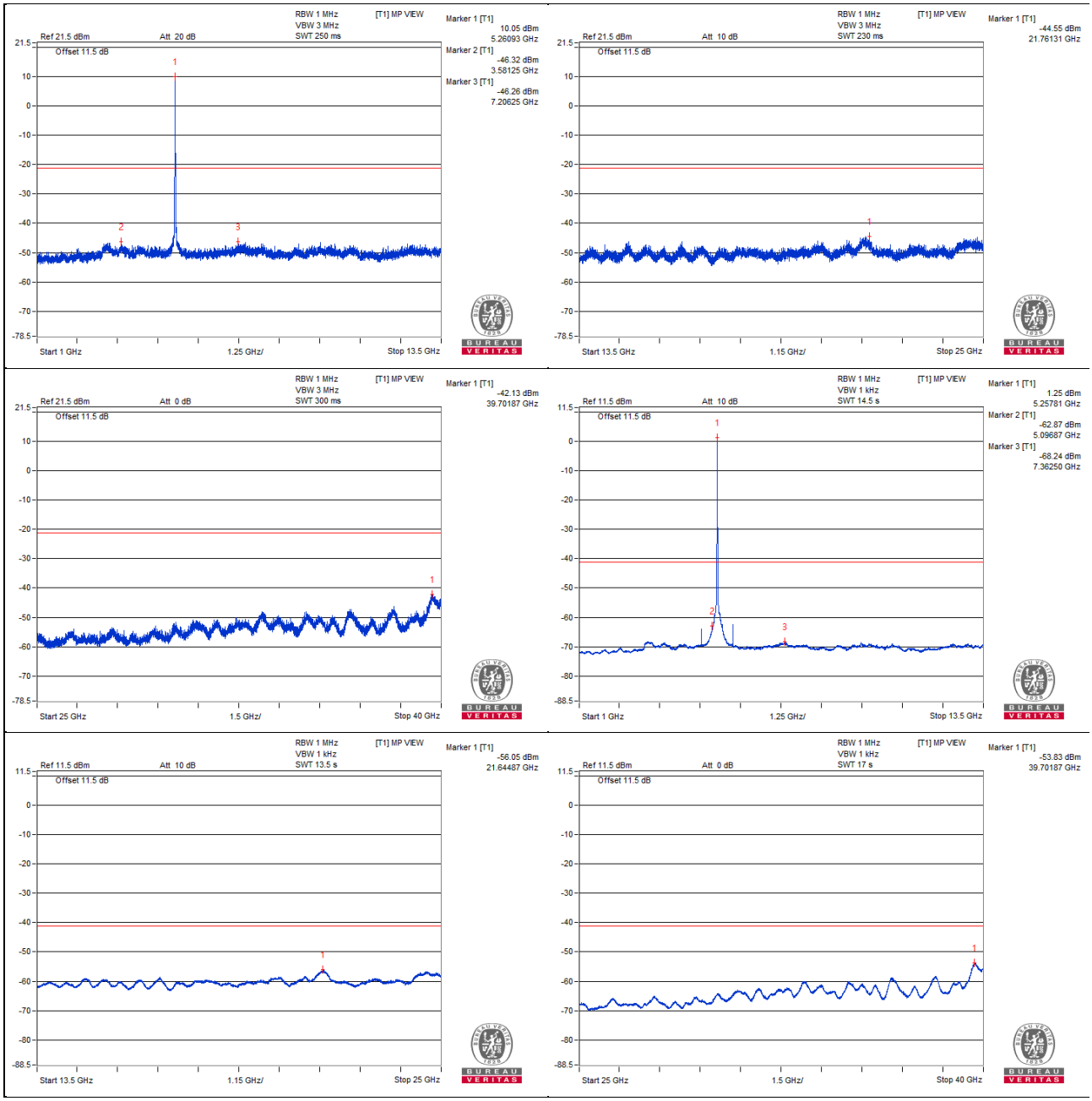


802.11ac (VHT20) - Channel 52

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5260.93 PK	109.14	*		10.05	3.83	13.88
2	3581.25 PK	52.77	74	-21.23	-46.32	3.83	-42.49
3	7206.25 PK	52.83	68.2	-15.37	-46.26	3.83	-42.43
4	21761.31 PK	54.54	68.2	-13.66	-44.55	3.83	-40.72
5	39701.87 PK	56.96	74	-17.04	-42.13	3.83	-38.3
6	5257.81 AV	100.34	*		1.25	3.83	5.08
7	5096.87 AV	36.22	54	-17.78	-62.87	3.83	-59.04
8	7362.5 AV	30.85	54	-23.15	-68.24	3.83	-64.41
9	21644.87 AV	43.04	#		-56.05	3.83	-52.22
10	39701.87 AV	45.26	54	-8.74	-53.83	3.83	-50

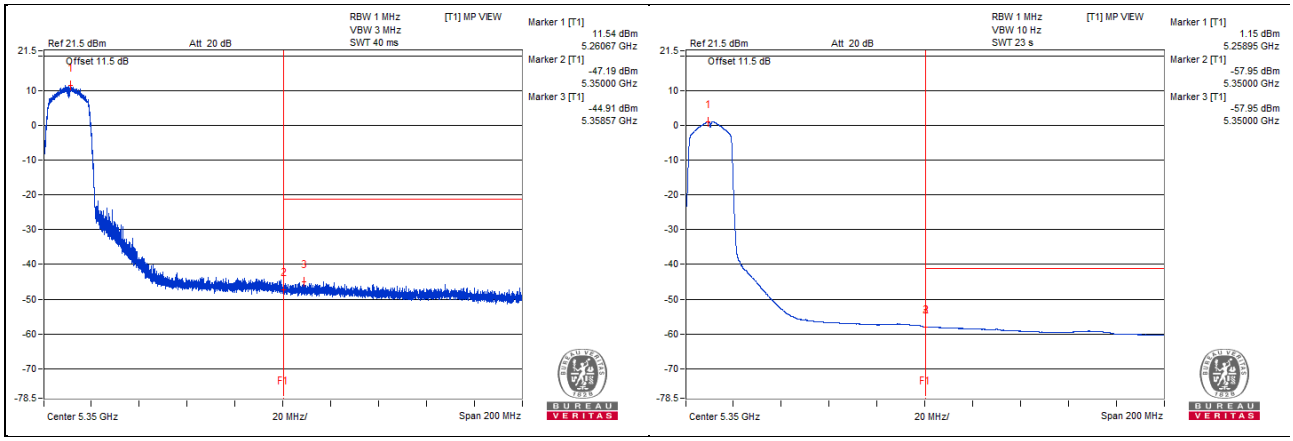
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
10.05 dBm
5.26093 GHz
Marker 2 [T1]
-46.32 dBm
3.58125 GHz
Marker 3 [T1]
-46.26 dBm
7.20625 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.55 dBm
21.76131 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-42.13 dBm
39.70187 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
1.25 dBm
5.25781 GHz
Marker 2 [T1]
-62.87 dBm
5.09687 GHz
Marker 3 [T1]
-68.24 dBm
7.36250 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.05 dBm
21.64487 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.83 dBm
39.70187 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5358.57 PK	53.79	74	-20.21	-44.91	3.44	-41.47
2	5350 AV	40.75	54	-13.25	-57.95	3.44	-54.51

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

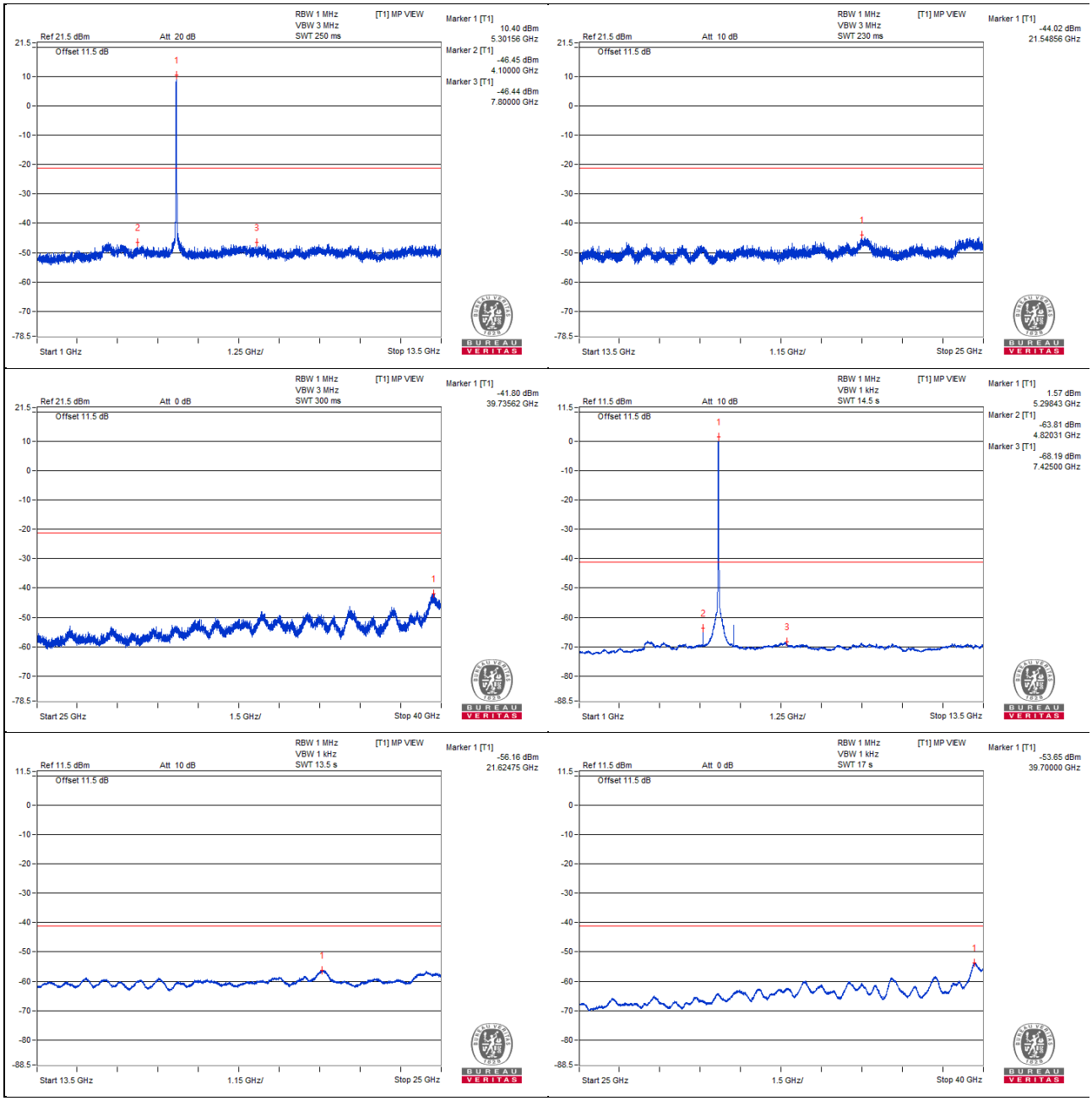


802.11ac (VHT20) - Channel 60

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5301.56 PK	109.49	*		10.4	3.83	14.23
2	4100 PK	52.64	74	-21.36	-46.45	3.83	-42.62
3	7800 PK	52.65	68.2	-15.55	-46.44	3.83	-42.61
4	21548.56 PK	55.07	68.2	-13.13	-44.02	3.83	-40.19
5	39735.62 PK	57.29	74	-16.71	-41.8	3.83	-37.97
6	5298.43 AV	100.66	*		1.57	3.83	5.4
7	4820.31 AV	35.28	54	-18.72	-63.81	3.83	-59.98
8	7425 AV	30.9	54	-23.1	-68.19	3.83	-64.36
9	21624.75 AV	42.93	#		-56.16	3.83	-52.33
10	39700 AV	45.44	54	-8.56	-53.65	3.83	-49.82

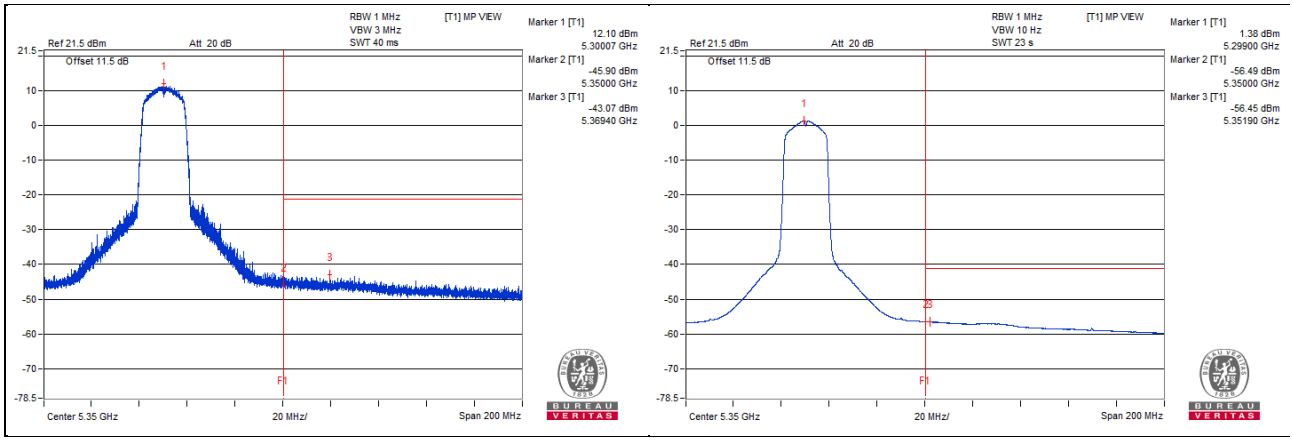
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
10.40 dBm
5.30156 GHz
Marker 2 [T1]
-46.45 dBm
4.10000 GHz
Marker 3 [T1]
-46.44 dBm
7.80000 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.02 dBm
21.54856 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.80 dBm
39.73562 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
1.57 dBm
5.29843 GHz
Marker 2 [T1]
-63.81 dBm
4.82031 GHz
Marker 3 [T1]
-68.19 dBm
7.42500 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.16 dBm
21.62475 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.65 dBm
39.70000 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5369.4 PK	55.63	74	-18.37	-43.07	3.44	-39.63
2	5351.9 AV	42.25	54	-11.75	-56.45	3.44	-53.01

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

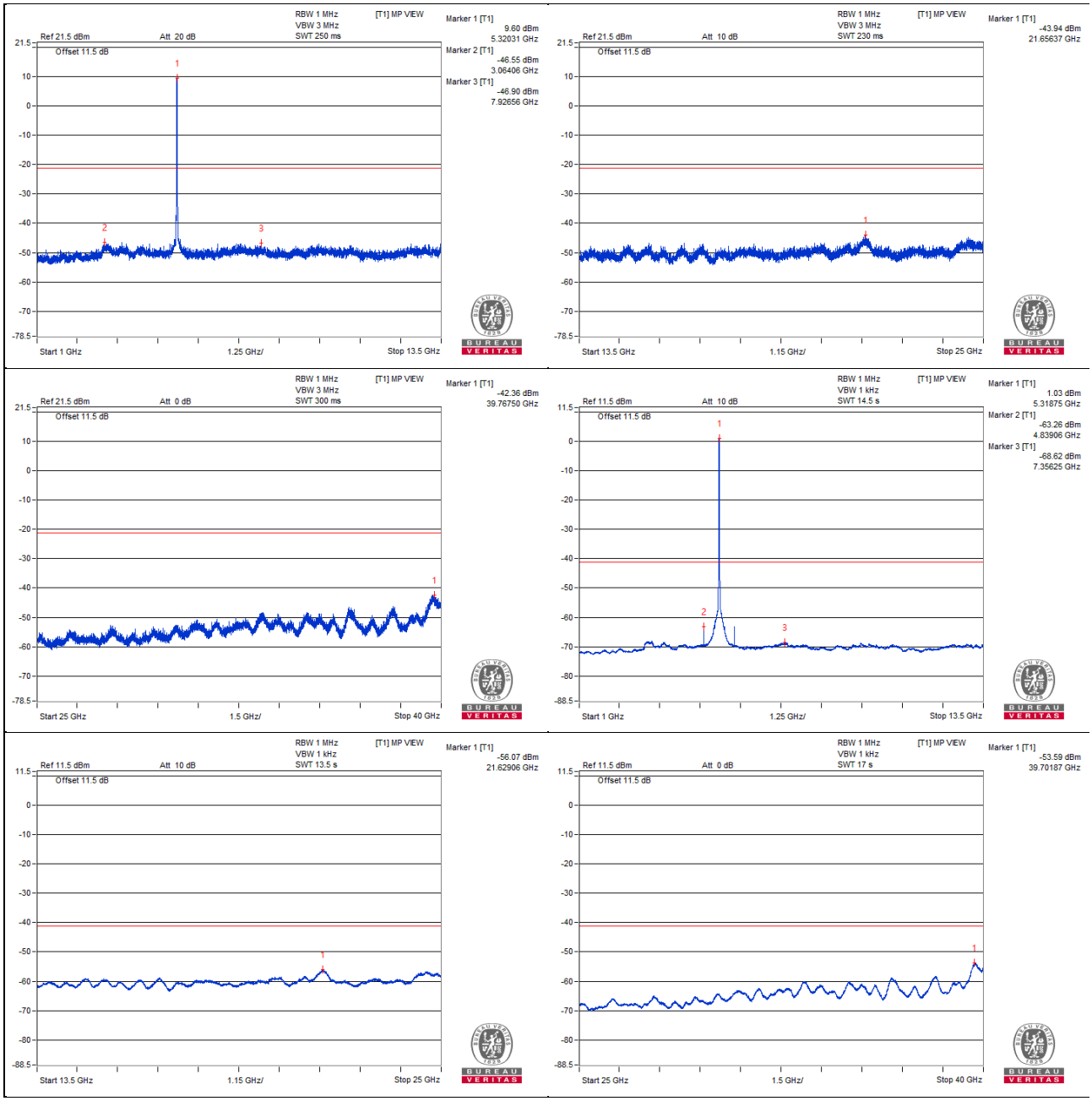


802.11ac (VHT20) - Channel 64

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5320.31 PK	108.69	*		9.6	3.83	13.43
2	3064.06 PK	52.54	68.2	-15.66	-46.55	3.83	-42.72
3	7926.56 PK	52.19	68.2	-16.01	-46.9	3.83	-43.07
4	21656.37 PK	55.15	68.2	-13.05	-43.94	3.83	-40.11
5	39767.5 PK	56.73	74	-17.27	-42.36	3.83	-38.53
6	5318.75 AV	100.12	*		1.03	3.83	4.86
7	4839.06 AV	35.83	54	-18.17	-63.26	3.83	-59.43
8	7356.25 AV	30.47	54	-23.53	-68.62	3.83	-64.79
9	21629.06 AV	43.02	#		-56.07	3.83	-52.24
10	39701.87 AV	45.5	54	-8.5	-53.59	3.83	-49.76

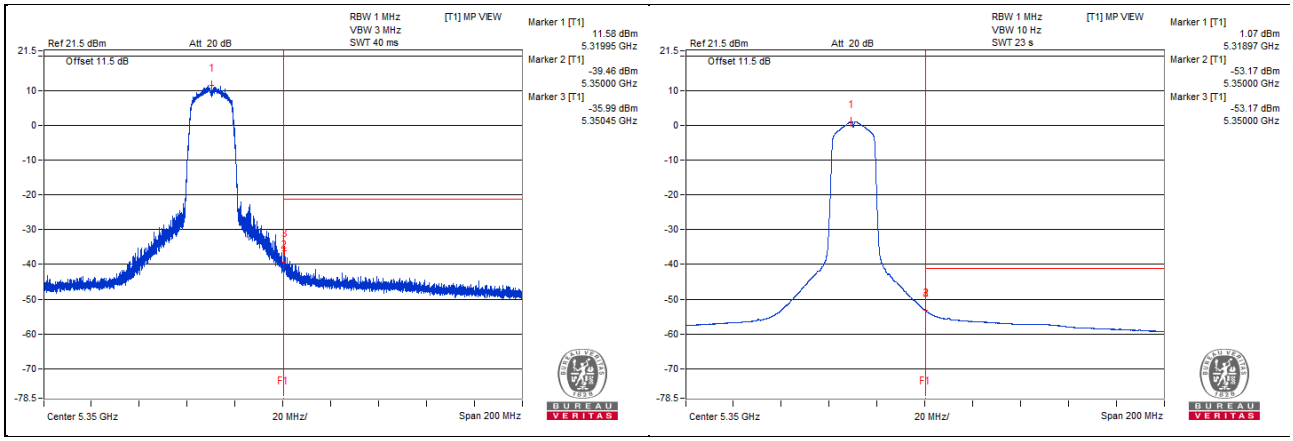
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
9.60 dBm
5.32031 GHz
Marker 2 [T1]
-46.55 dBm
3.06406 GHz
Marker 3 [T1]
-46.90 dBm
7.92656 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-43.94 dBm
21.65637 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-42.36 dBm
39.76750 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
1.03 dBm
5.31875 GHz
Marker 2 [T1]
-63.26 dBm
4.83906 GHz
Marker 3 [T1]
-68.62 dBm
7.35625 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.07 dBm
21.62906 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.59 dBm
39.70187 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5350.45 PK	62.71	74	-11.29	-35.99	3.44	-32.55
2	5350 AV	45.53	54	-8.47	-53.17	3.44	-49.73

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

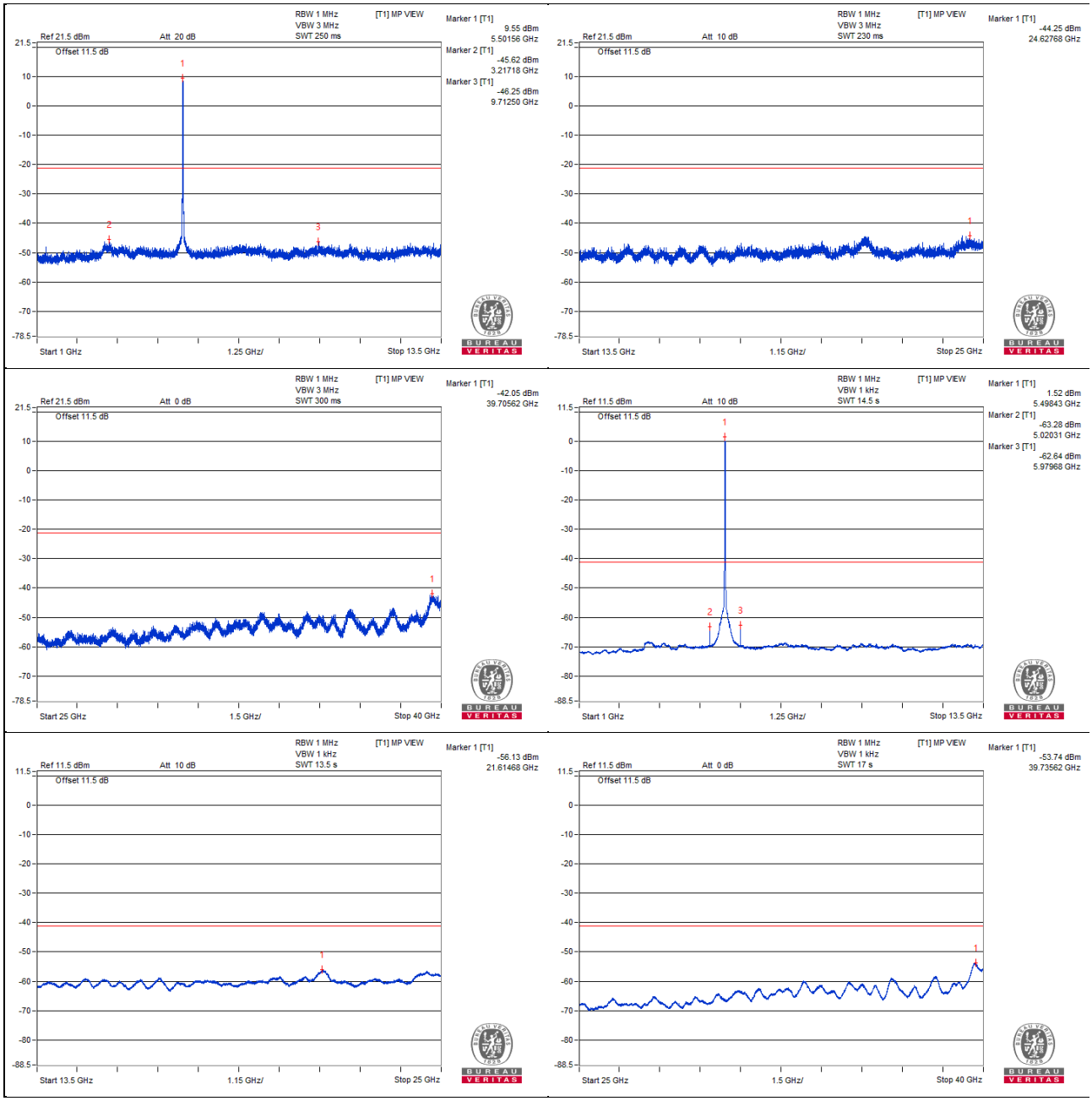


802.11ac (VHT20) - Channel 100

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5501.56 PK	108.64	*		9.55	3.83	13.38
2	3217.18 PK	53.47	68.2	-14.73	-45.62	3.83	-41.79
3	9712.5 PK	52.84	68.2	-15.36	-46.25	3.83	-42.42
4	24627.68 PK	54.84	68.2	-13.36	-44.25	3.83	-40.42
5	39705.62 PK	57.04	74	-16.96	-42.05	3.83	-38.22
6	5498.43 AV	100.61	*		1.52	3.83	5.35
7	5020.31 AV	35.81	54	-18.19	-63.28	3.83	-59.45
8	5979.68 AV	36.45	#		-62.64	3.83	-58.81
9	21614.68 AV	42.96	#		-56.13	3.83	-52.3
10	39735.62 AV	45.35	54	-8.65	-53.74	3.83	-49.91

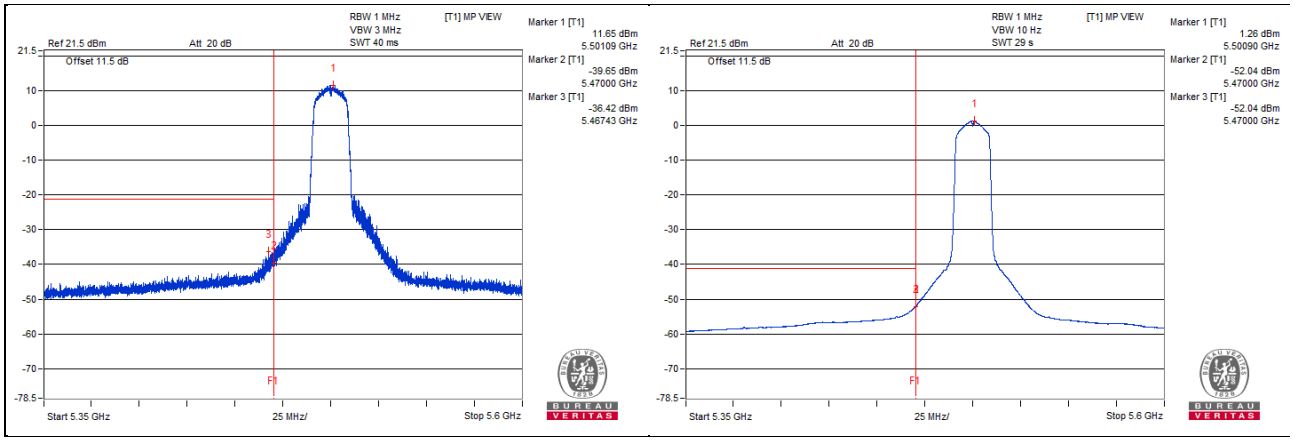
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
9.55 dBm
5.50156 GHz
Marker 2 [T1]
-45.62 dBm
3.21718 GHz
Marker 3 [T1]
-46.25 dBm
9.71250 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.25 dBm
24.62768 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-42.05 dBm
39.70562 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
1.52 dBm
5.49843 GHz
Marker 2 [T1]
-63.28 dBm
5.02031 GHz
Marker 3 [T1]
-62.64 dBm
5.97968 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.13 dBm
21.61468 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.74 dBm
39.73562 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5467.43 PK	62.67	68.2	-5.53	-36.42	3.83	-32.59

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

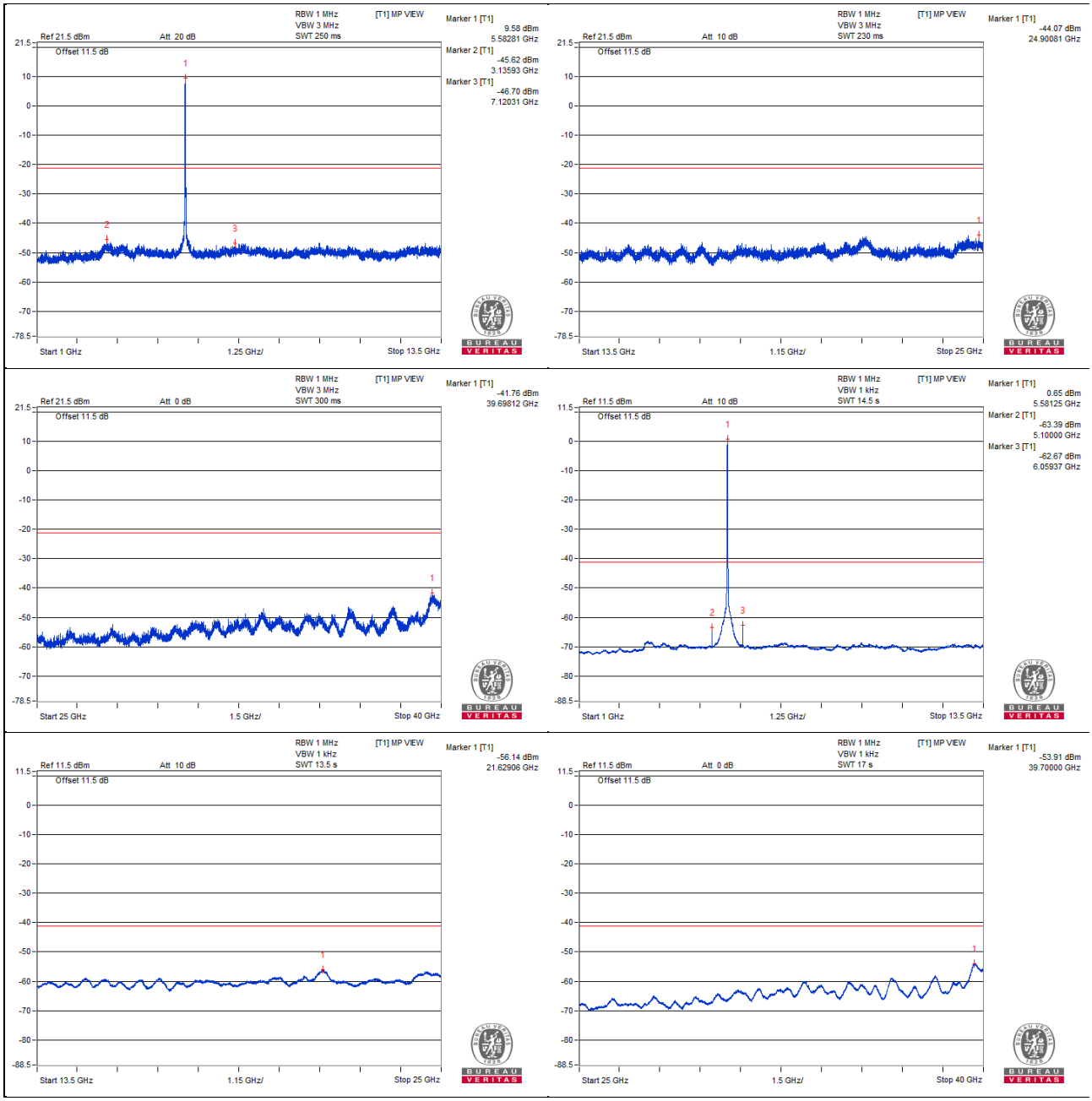


802.11ac (VHT20) - Channel 116

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	5582.81 PK	108.67	*		9.58	3.83	13.41
2	3135.93 PK	53.47	68.2	-14.73	-45.62	3.83	-41.79
3	7120.31 PK	52.39	68.2	-15.81	-46.7	3.83	-42.87
4	24900.81 PK	55.02	68.2	-13.18	-44.07	3.83	-40.24
5	39698.12 PK	57.33	74	-16.67	-41.76	3.83	-37.93
6	5581.25 AV	99.74	*		0.65	3.83	4.48
7	5100 AV	35.7	54	-18.3	-63.39	3.83	-59.56
8	6059.37 AV	36.42	#		-62.67	3.83	-58.84
9	21629.06 AV	42.95	#		-56.14	3.83	-52.31
10	39700 AV	45.18	54	-8.82	-53.91	3.83	-50.08

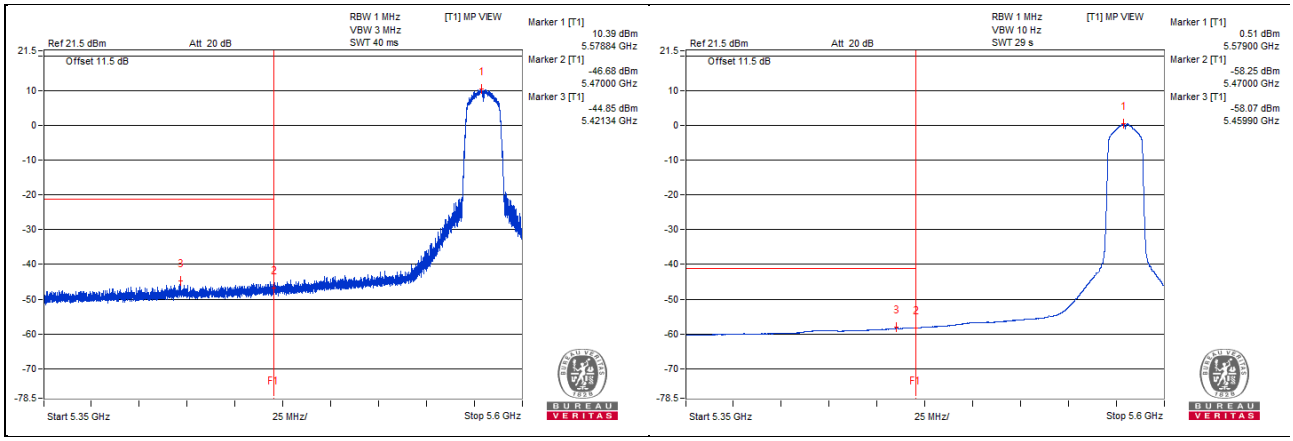
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
9.58 dBm
5.58281 GHz
Marker 2 [T1]
-45.62 dBm
3.13593 GHz
Marker 3 [T1]
-46.70 dBm
7.12031 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.07 dBm
24.90081 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.76 dBm
39.69812 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
0.65 dBm
5.58125 GHz
Marker 2 [T1]
-63.39 dBm
5.10000 GHz
Marker 3 [T1]
-62.67 dBm
6.05937 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.14 dBm
21.62906 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.91 dBm
39.70000 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5421.34 PK	54.24	74	-19.76	-44.85	3.83	-41.02
2	5459.9 AV	41.02	54	-12.98	-58.07	3.83	-54.24

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

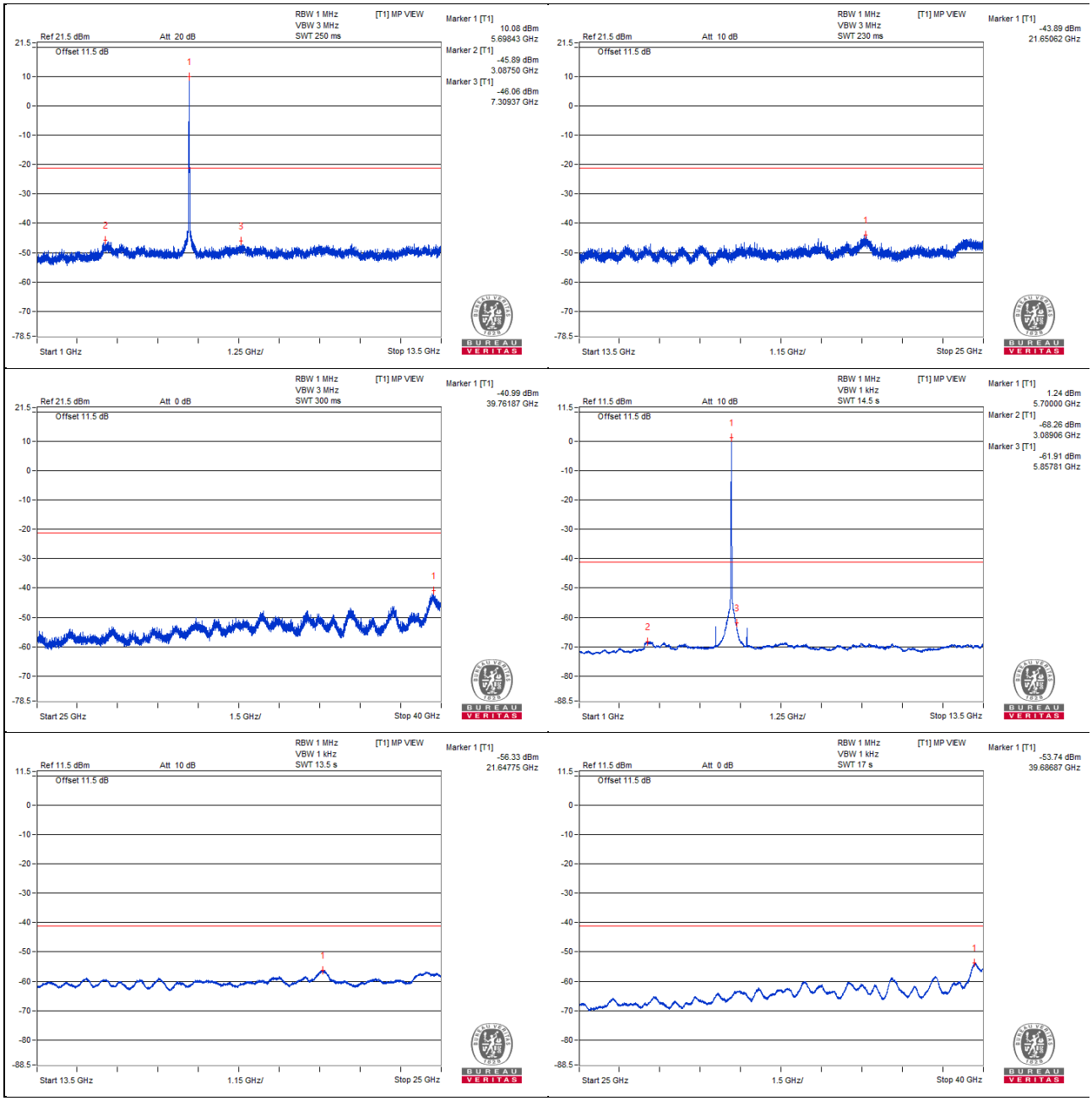


802.11ac (VHT20) - Channel 140

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5698.43 PK	109.17	*		10.08	3.83	13.91
2	3087.5 PK	53.2	68.2	-15	-45.89	3.83	-42.06
3	7309.37 PK	53.03	74	-20.97	-46.06	3.83	-42.23
4	21650.62 PK	55.2	68.2	-13	-43.89	3.83	-40.06
5	39761.87 PK	58.1	74	-15.9	-40.99	3.83	-37.16
6	5700 AV	100.33	*		1.24	3.83	5.07
7	3089.06 AV	30.83	#		-68.26	3.83	-64.43
8	5857.81 AV	37.18	#		-61.91	3.83	-58.08
9	21647.75 AV	42.76	#		-56.33	3.83	-52.5
10	39686.87 AV	45.35	54	-8.65	-53.74	3.83	-49.91

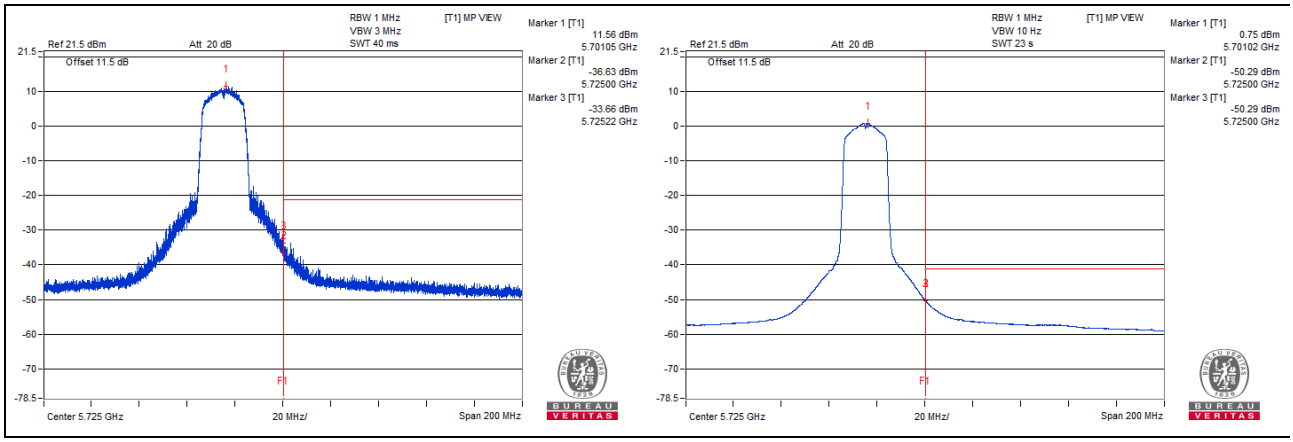
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
10.08 dBm
5.69843 GHz
Marker 2 [T1]
-45.89 dBm
3.08750 GHz
Marker 3 [T1]
-46.06 dBm
7.30937 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-43.89 dBm
21.65062 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-40.99 dBm
39.76187 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
1.24 dBm
5.70000 GHz
Marker 2 [T1]
-68.26 dBm
3.08906 GHz
Marker 3 [T1]
-61.91 dBm
5.85781 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.33 dBm
21.64775 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.74 dBm
39.68687 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5725.22 PK	65.43	68.2	-2.77	-33.66	3.83	-29.83

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

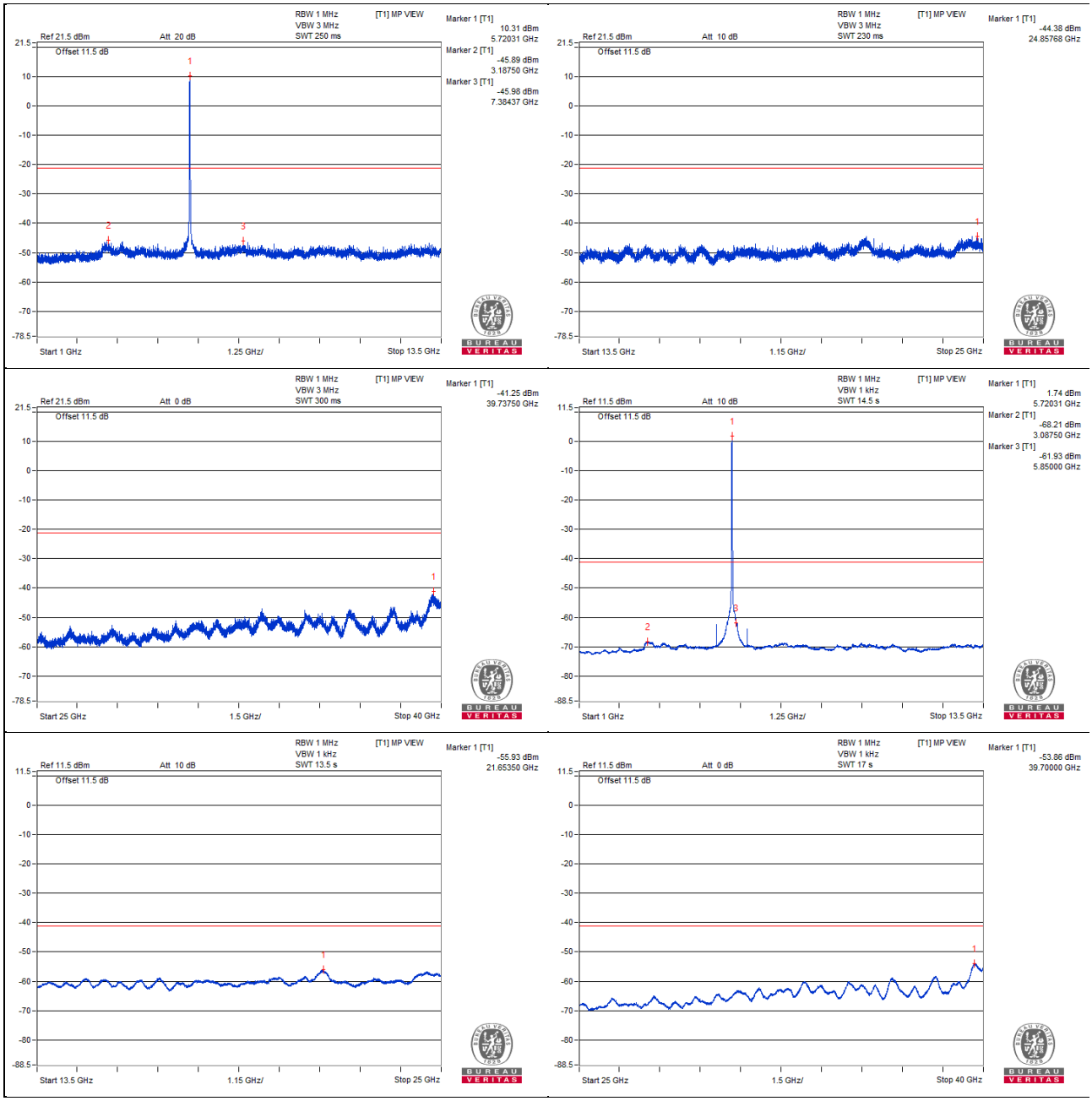


802.11ac (VHT20) - Channel 144

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5720.31 PK	109.4	*		10.31	3.83	14.14
2	3187.5 PK	53.2	68.2	-15	-45.89	3.83	-42.06
3	7384.37 PK	53.11	74	-20.89	-45.98	3.83	-42.15
4	24857.68 PK	54.71	68.2	-13.49	-44.38	3.83	-40.55
5	39737.5 PK	57.84	74	-16.16	-41.25	3.83	-37.42
6	5720.31 AV	100.83	*		1.74	3.83	5.57
7	3087.5 AV	30.88	#		-68.21	3.83	-64.38
8	5850 AV	37.16	#		-61.93	3.83	-58.1
9	21653.5 AV	43.16	#		-55.93	3.83	-52.1
10	39700 AV	45.23	54	-8.77	-53.86	3.83	-50.03

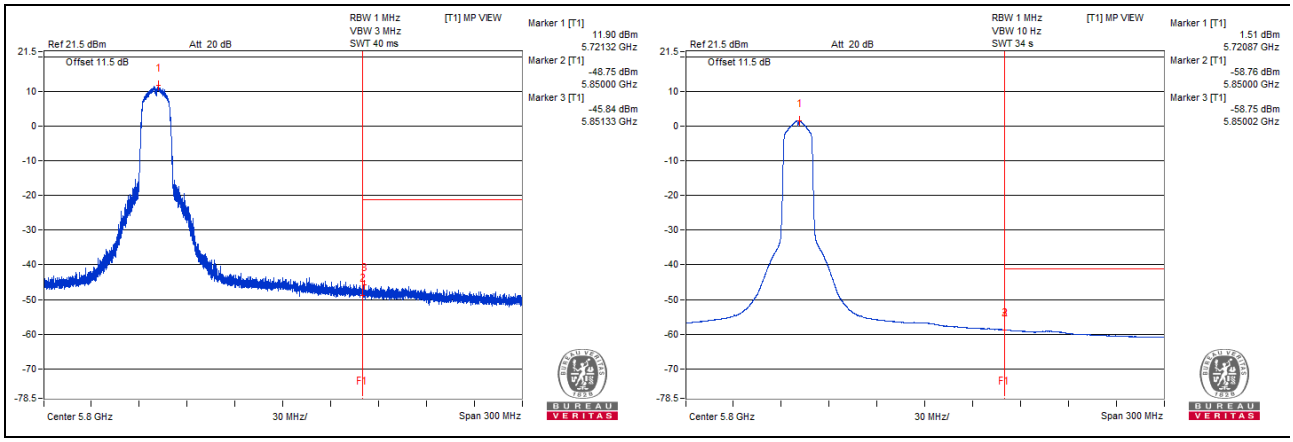
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
10.31 dBm
5.72031 GHz
Marker 2 [T1]
-45.89 dBm
3.18750 GHz
Marker 3 [T1]
-45.98 dBm
7.38437 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.38 dBm
24.85768 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.25 dBm
39.73750 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
1.74 dBm
5.72031 GHz
Marker 2 [T1]
-68.21 dBm
3.06750 GHz
Marker 3 [T1]
-61.93 dBm
5.85000 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-55.93 dBm
21.65350 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.86 dBm
39.70000 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5851.33 PK	53.25	68.2	-14.95	-45.84	3.83	-42.01

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



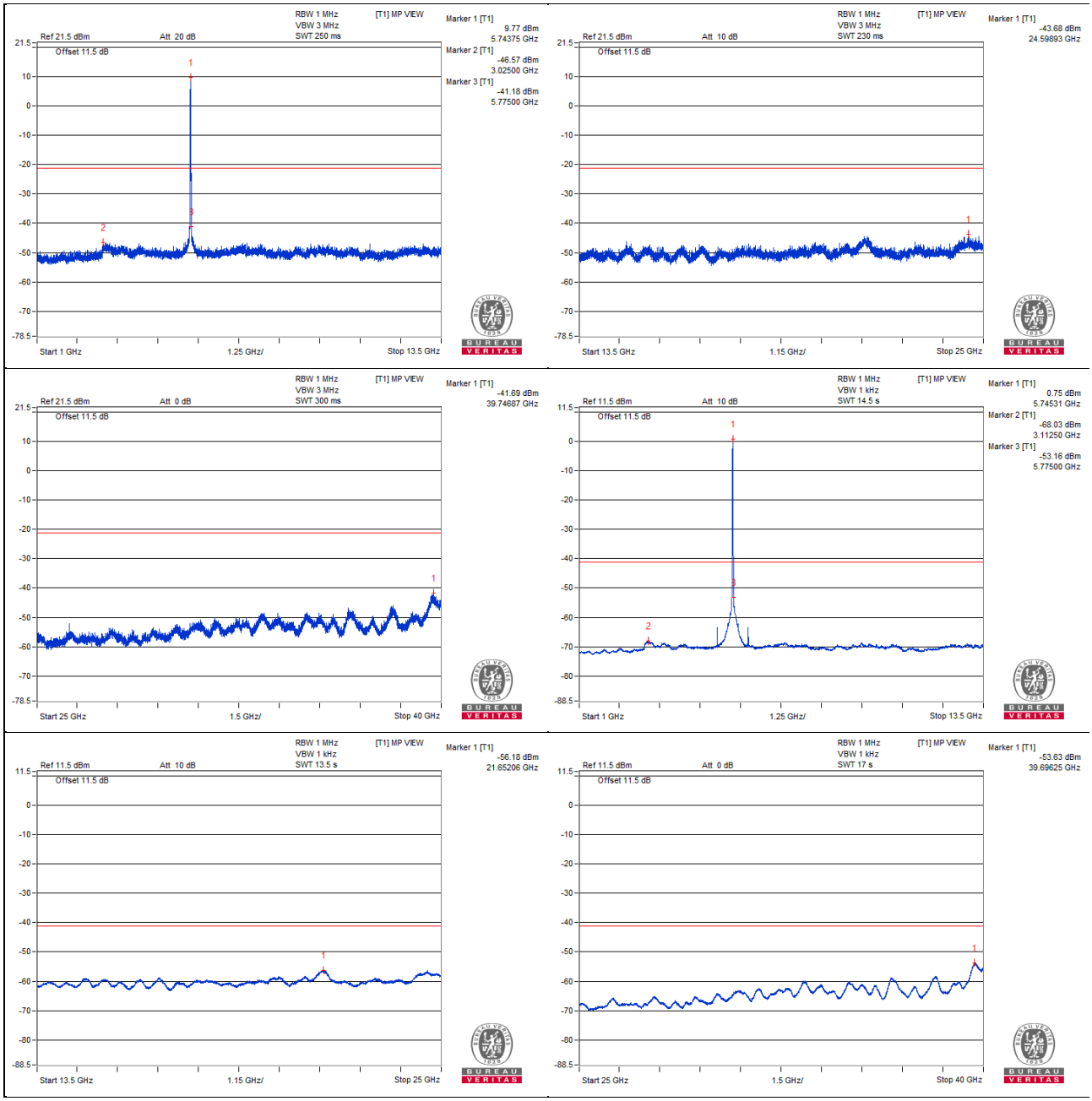
802.11ac (VHT20) – Channel 149

Conducted spurious emission table

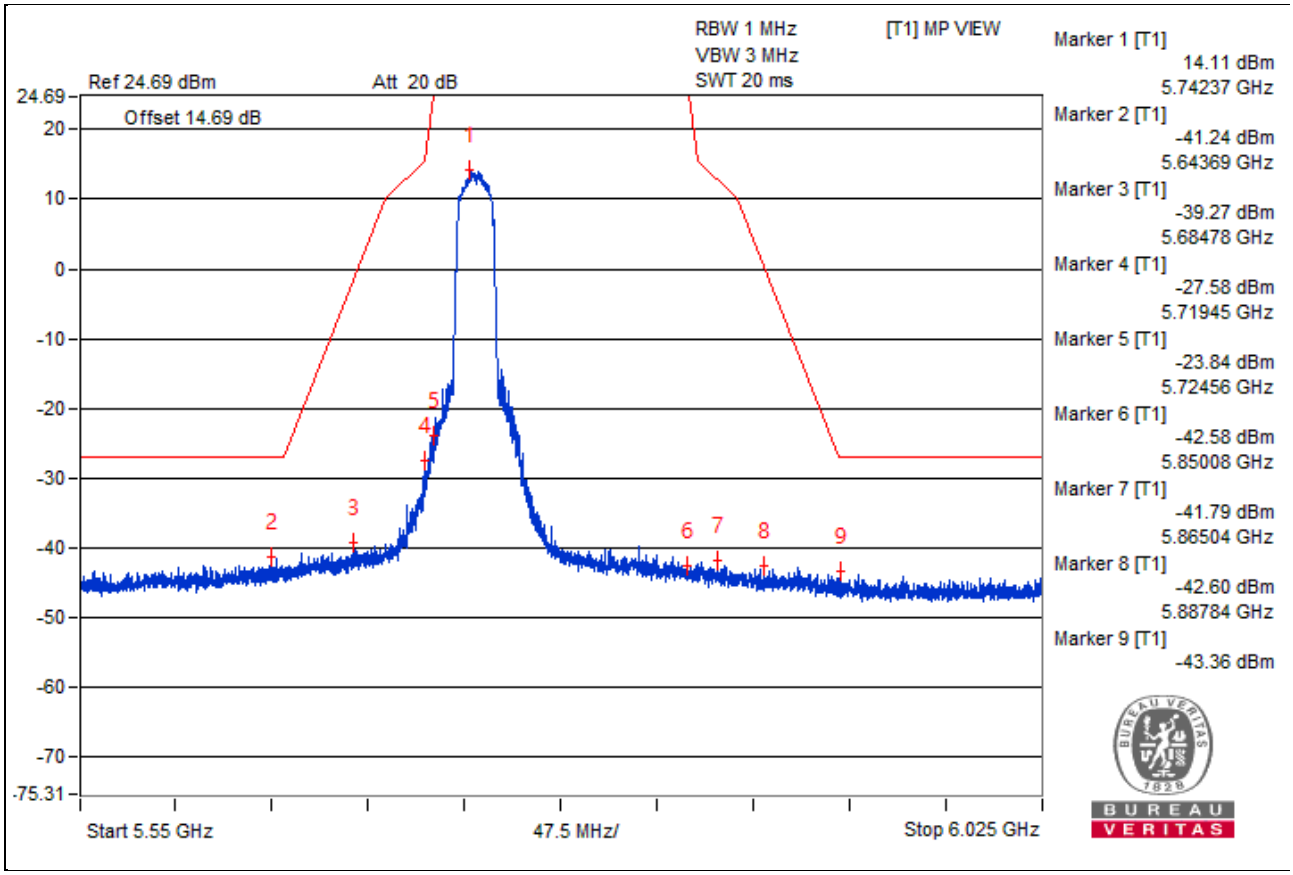
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5743.75 PK	108.86	*		9.77	3.83	13.6
2	3025 PK	52.52	68.2	-15.68	-46.57	3.83	-42.74
3	5775 PK	57.91	68.2	-10.29	-41.18	3.83	-37.35
4	24598.93 PK	55.41	68.2	-12.79	-43.68	3.83	-39.85
5	39746.87 PK	57.4	74	-16.6	-41.69	3.83	-37.86
6	5745.31 AV	99.84	*		0.75	3.83	4.58
7	3112.5 AV	31.06	#		-68.03	3.83	-64.2
8	5775 AV	45.93	#		-53.16	3.83	-49.33
9	21652.06 AV	42.91	#		-56.18	3.83	-52.35
10	39696.25 AV	45.46	54	-8.54	-53.63	3.83	-49.8

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


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
9.77 dBm
5.74375 GHz
Marker 2 [T1]
-46.57 dBm
3.02500 GHz
Marker 3 [T1]
-41.18 dBm
5.77500 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-43.68 dBm
24.59893 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.69 dBm
39.74687 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
0.75 dBm
5.74531 GHz
Marker 2 [T1]
-68.03 dBm
3.11250 GHz
Marker 3 [T1]
-53.16 dBm
5.77500 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.18 dBm
21.65206 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.63 dBm
39.69625 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.19 dBi).
2. The test results were EIRP.

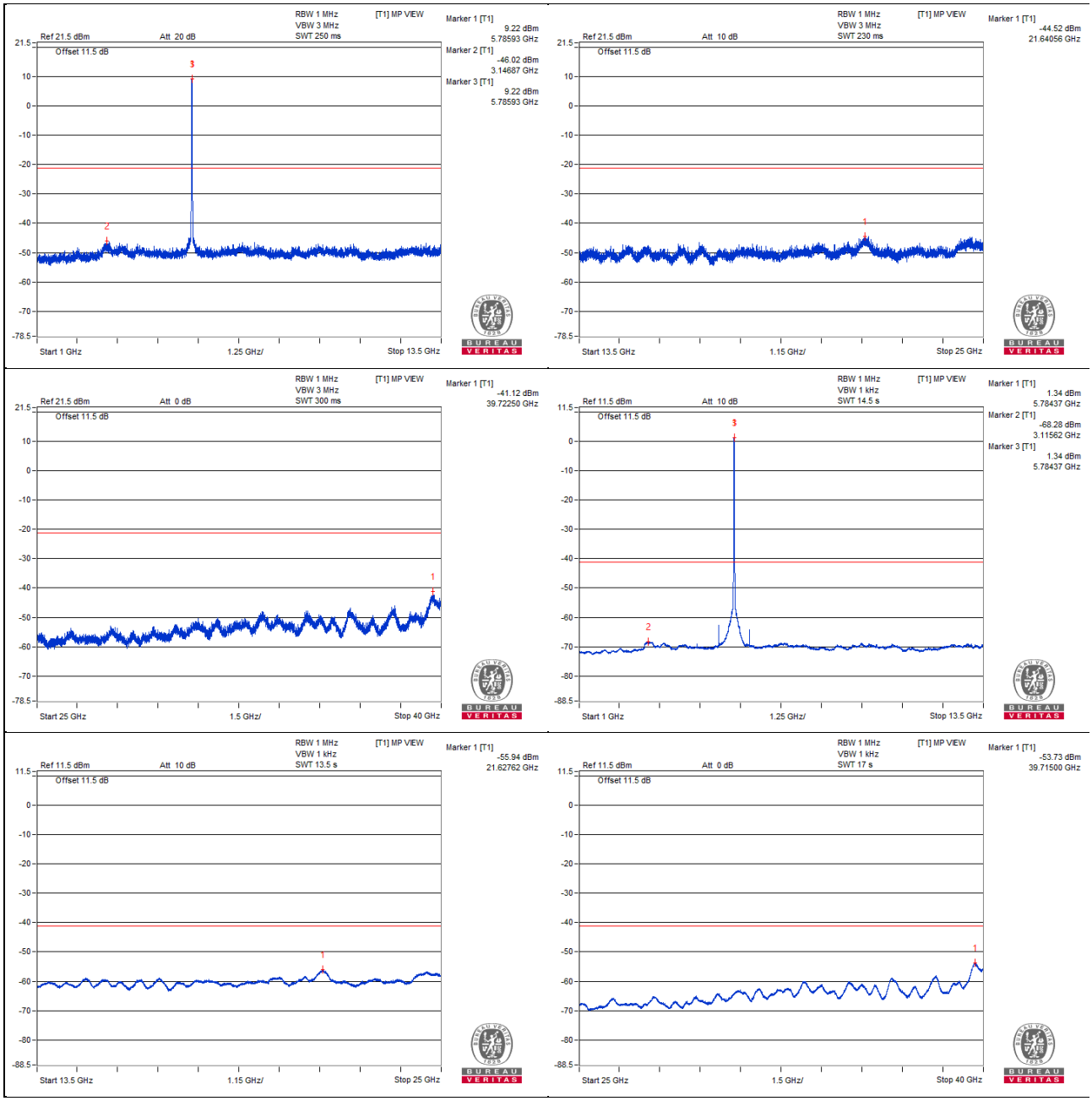
802.11ac (VHT20) – Channel 157

Conducted spurious emission table

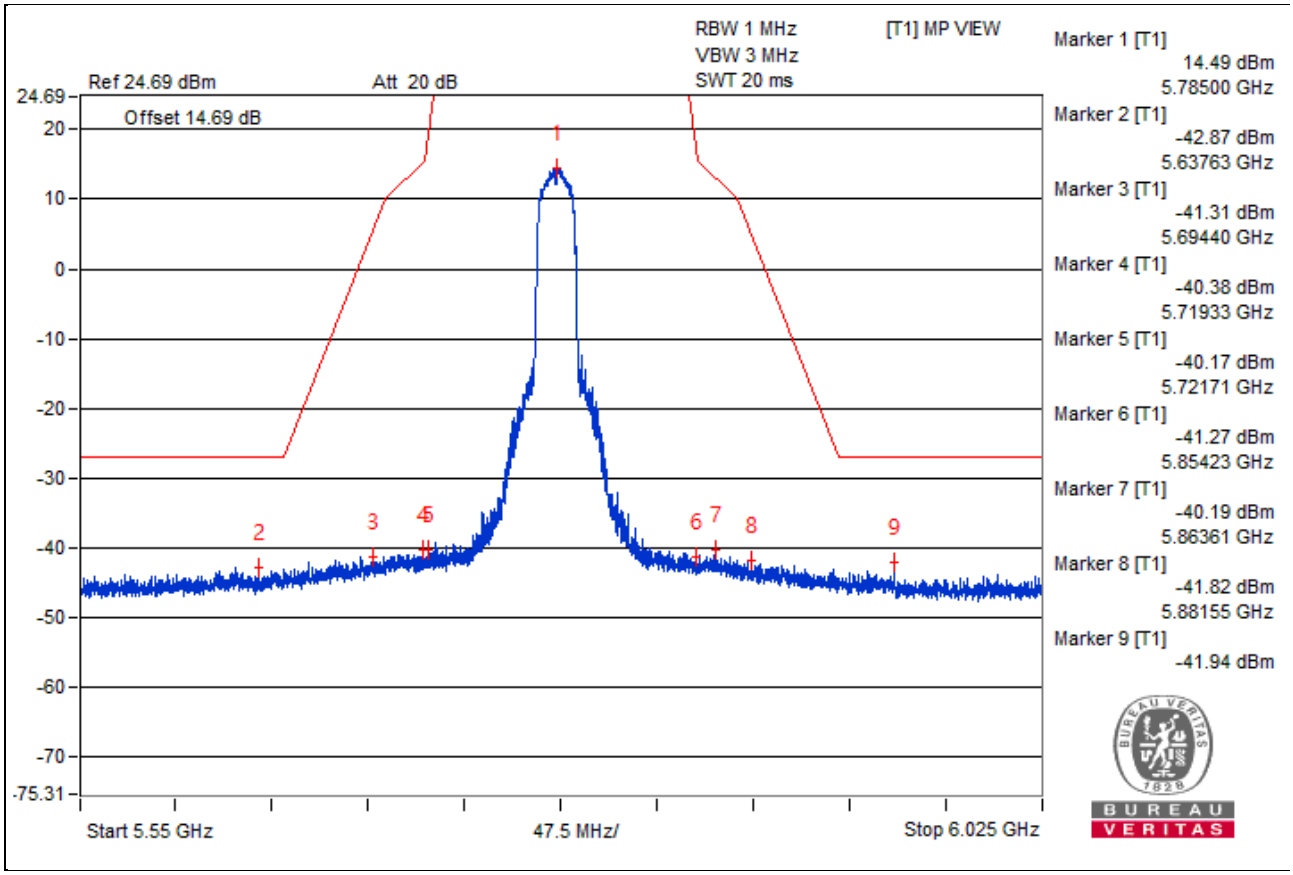
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5785.93 PK	108.31	*		9.22	3.83	13.05
2	3146.87 PK	53.07	68.2	-15.13	-46.02	3.83	-42.19
3	5785.93 PK	108.31	*		9.22	3.83	13.05
4	21640.56 PK	54.57	68.2	-13.63	-44.52	3.83	-40.69
5	39722.5 PK	57.97	74	-16.03	-41.12	3.83	-37.29
6	5784.37 AV	100.43	*		1.34	3.83	5.17
7	3115.62 AV	30.81	#		-68.28	3.83	-64.45
8	5784.37 AV	100.43	*		1.34	3.83	5.17
9	21627.62 AV	43.15	#		-55.94	3.83	-52.11
10	39715 AV	45.36	54	-8.64	-53.73	3.83	-49.9

Note :

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


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
9.22 dBm
5.78593 GHz
Marker 2 [T1]
-46.02 dBm
3.14687 GHz
Marker 3 [T1]
9.22 dBm
5.78593 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.52 dBm
21.64056 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.12 dBm
39.72250 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
1.34 dBm
5.78437 GHz
Marker 2 [T1]
-68.28 dBm
3.11562 GHz
Marker 3 [T1]
1.34 dBm
5.78437 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-55.94 dBm
21.62762 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.73 dBm
39.71500 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.19 dBi).
2. The test results were EIRP.

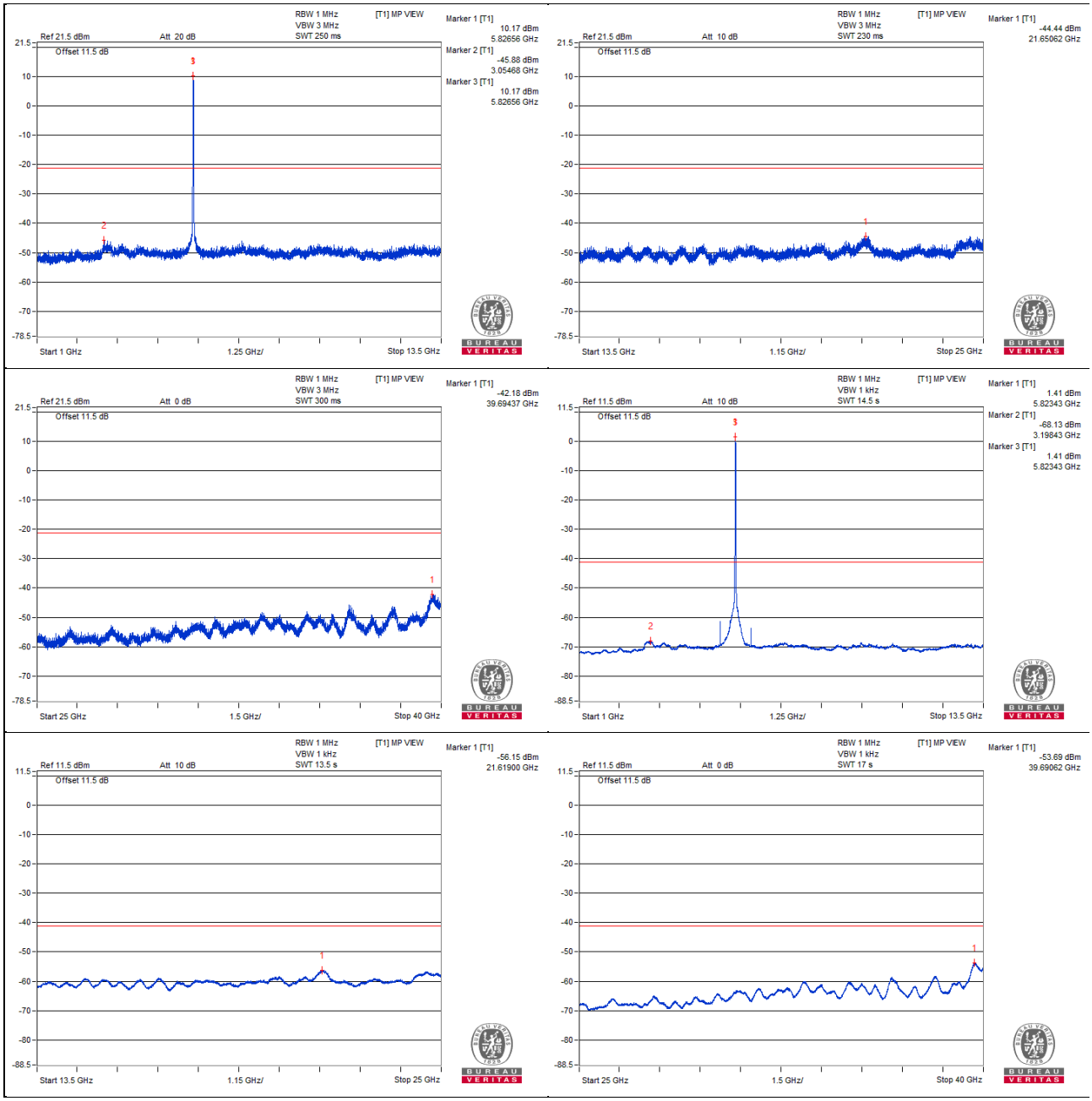
802.11ac (VHT20) – Channel 165

Conducted spurious emission table

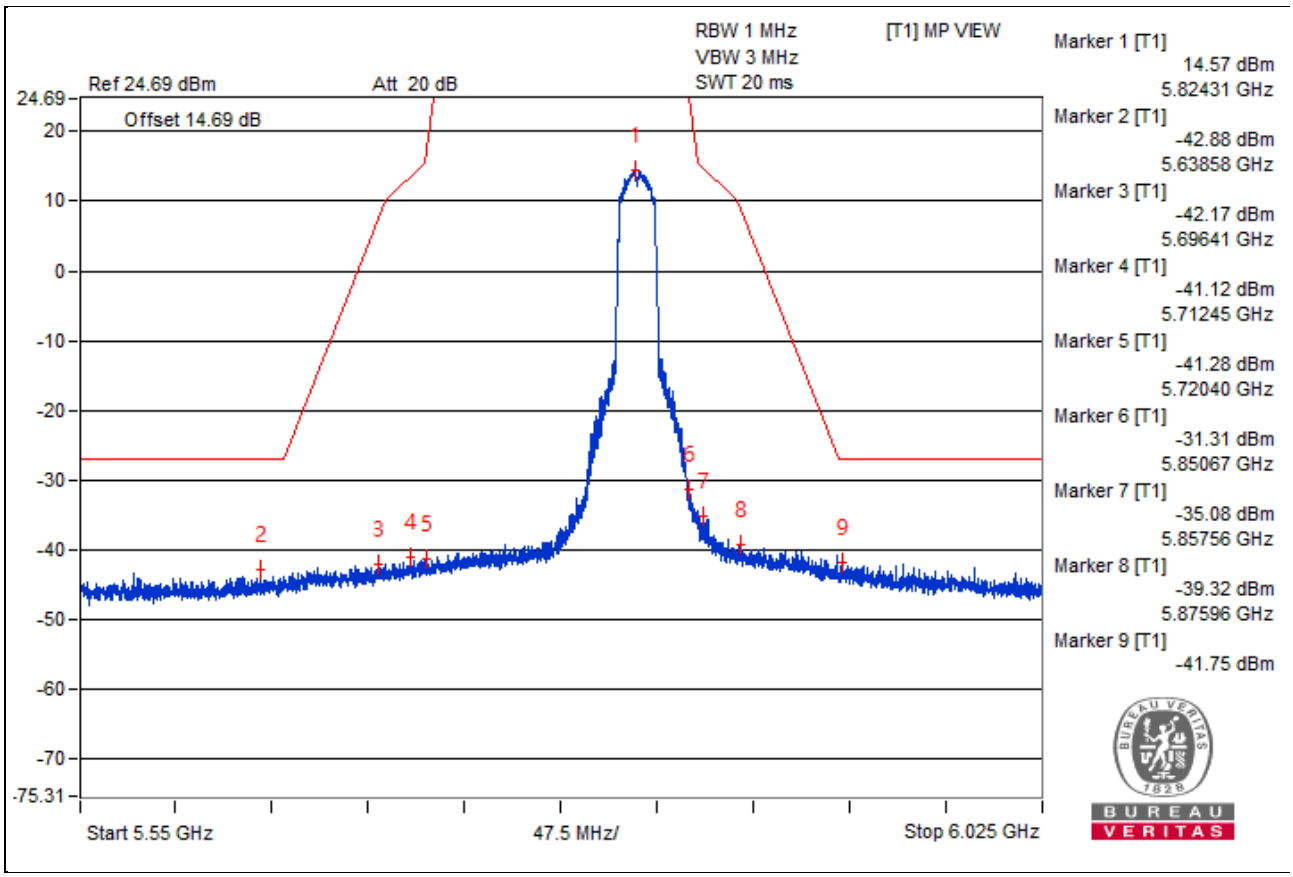
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5826.56 PK	109.26	*		10.17	3.83	14
2	3054.68 PK	53.21	68.2	-14.99	-45.88	3.83	-42.05
3	5826.56 PK	109.26	*		10.17	3.83	14
4	21650.62 PK	54.65	68.2	-13.55	-44.44	3.83	-40.61
5	39694.37 PK	56.91	74	-17.09	-42.18	3.83	-38.35
6	5823.43 AV	100.5	*		1.41	3.83	5.24
7	3198.43 AV	30.96	#		-68.13	3.83	-64.3
8	5823.43 AV	100.5	*		1.41	3.83	5.24
9	21619 AV	42.94	#		-56.15	3.83	-52.32
10	39690.62 AV	45.4	54	-8.6	-53.69	3.83	-49.86

Note :

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


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
10.17 dBm
5.82656 GHz
Marker 2 [T1]
-45.88 dBm
3.05468 GHz
Marker 3 [T1]
10.17 dBm
5.82656 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.44 dBm
21.65062 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-42.18 dBm
39.69437 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
1.41 dBm
5.82343 GHz
Marker 2 [T1]
-68.13 dBm
3.19843 GHz
Marker 3 [T1]
1.41 dBm
5.82343 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.15 dBm
21.61900 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.69 dBm
39.69062 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table



Note:

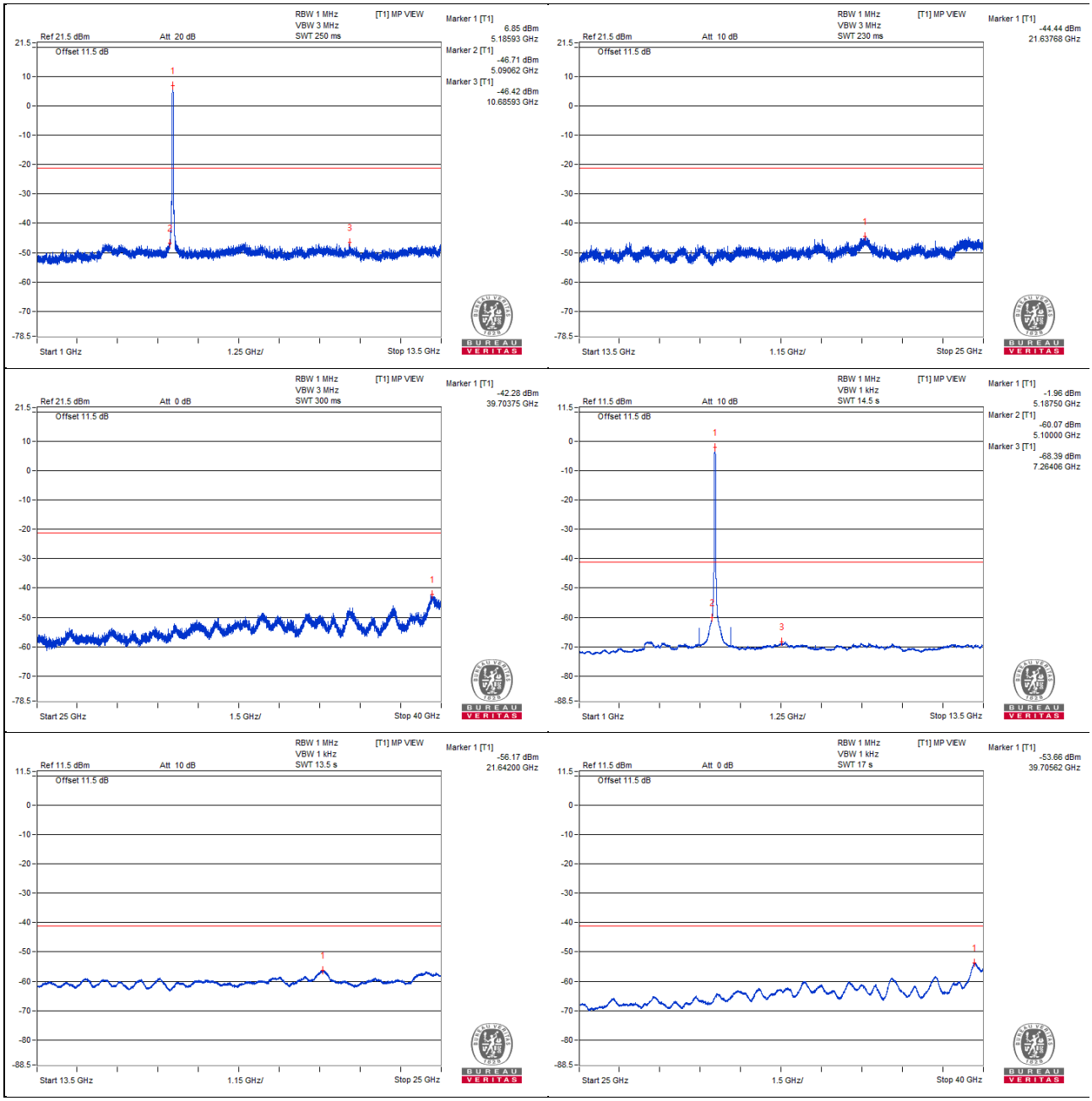
1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.19 dBi).
2. The test results were EIRP.

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	5185.93 PK	105.94	*		6.85	3.83	10.68
2	5090.62 PK	52.38	74	-21.62	-46.71	3.83	-42.88
3	10685.93 PK	52.67	74	-21.33	-46.42	3.83	-42.59
4	21637.68 PK	54.65	68.2	-13.55	-44.44	3.83	-40.61
5	39703.75 PK	56.81	74	-17.19	-42.28	3.83	-38.45
6	5187.5 AV	97.13	*		-1.96	3.83	1.87
7	5100 AV	39.02	54	-14.98	-60.07	3.83	-56.24
8	7264.06 AV	30.7	54	-23.3	-68.39	3.83	-64.56
9	21642 AV	42.92	#		-56.17	3.83	-52.34
10	39705.62 AV	45.43	54	-8.57	-53.66	3.83	-49.83

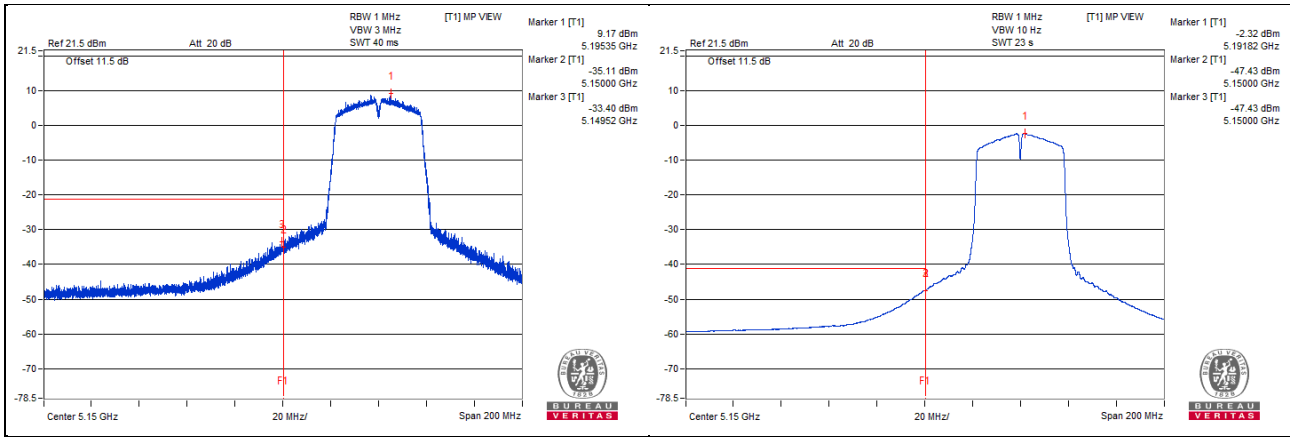
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
6.85 dBm
5.18593 GHz
Marker 2 [T1]
-46.71 dBm
5.09062 GHz
Marker 3 [T1]
-46.42 dBm
10.68593 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.44 dBm
21.63768 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-42.28 dBm
39.70375 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
-1.96 dBm
5.18750 GHz
Marker 2 [T1]
-60.07 dBm
5.10000 GHz
Marker 3 [T1]
-68.39 dBm
7.26406 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.17 dBm
21.64200 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.66 dBm
39.70562 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5149.52 PK	64.92	74	-9.08	-33.4	3.06	-30.34
2	5150 AV	50.89	54	-3.11	-47.43	3.06	-44.37

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

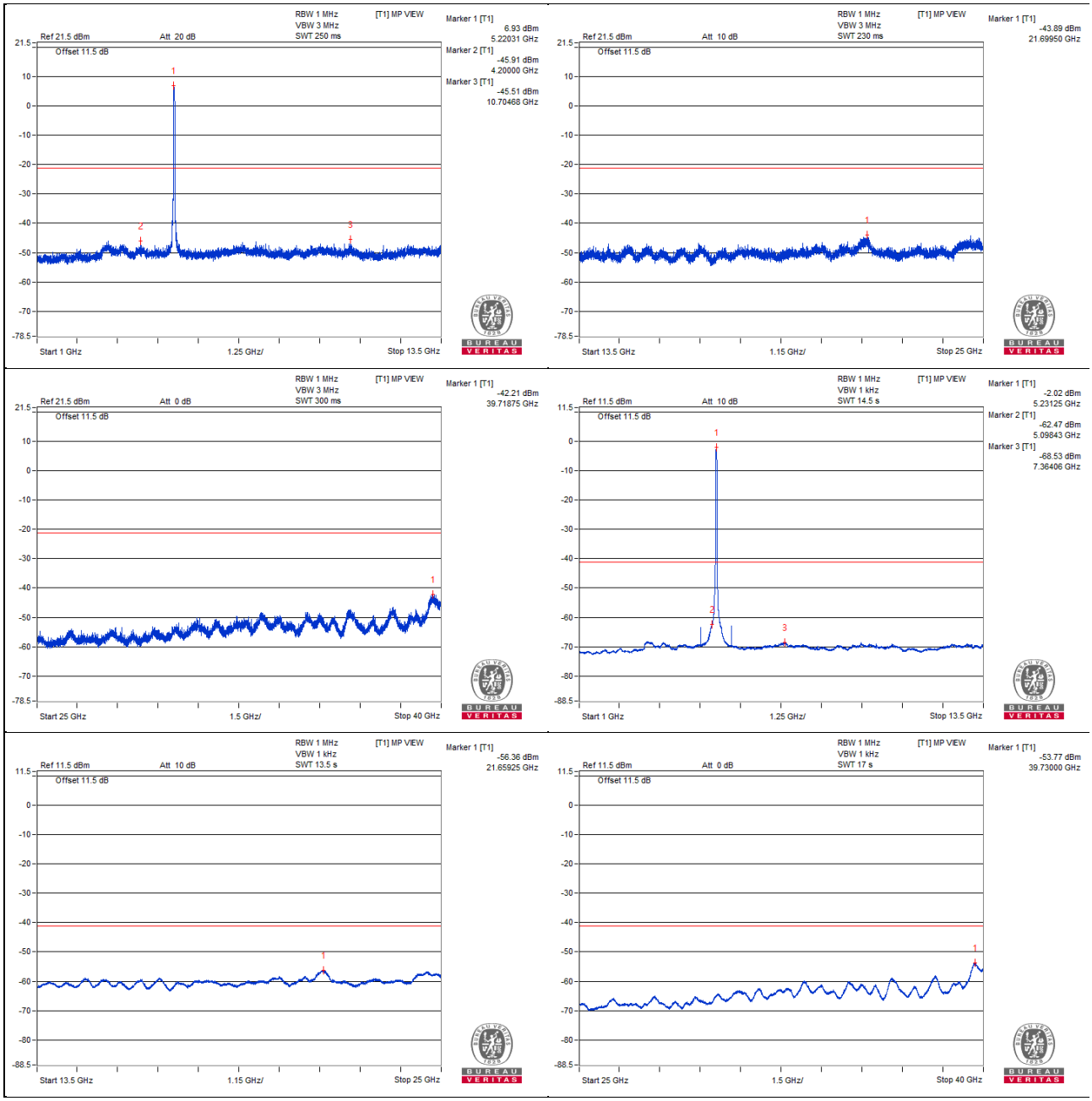


802.11ac (VHT40) - Channel 46

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5220.31 PK	106.02	*		6.93	3.83	10.76
2	4200 PK	53.18	74	-20.82	-45.91	3.83	-42.08
3	10704.68 PK	53.58	74	-20.42	-45.51	3.83	-41.68
4	21699.5 PK	55.2	68.2	-13	-43.89	3.83	-40.06
5	39718.75 PK	56.88	74	-17.12	-42.21	3.83	-38.38
6	5231.25 AV	97.07	*		-2.02	3.83	1.81
7	5098.43 AV	36.62	54	-17.38	-62.47	3.83	-58.64
8	7364.06 AV	30.56	54	-23.44	-68.53	3.83	-64.7
9	21659.25 AV	42.73	#		-56.36	3.83	-52.53
10	39730 AV	45.32	54	-8.68	-53.77	3.83	-49.94

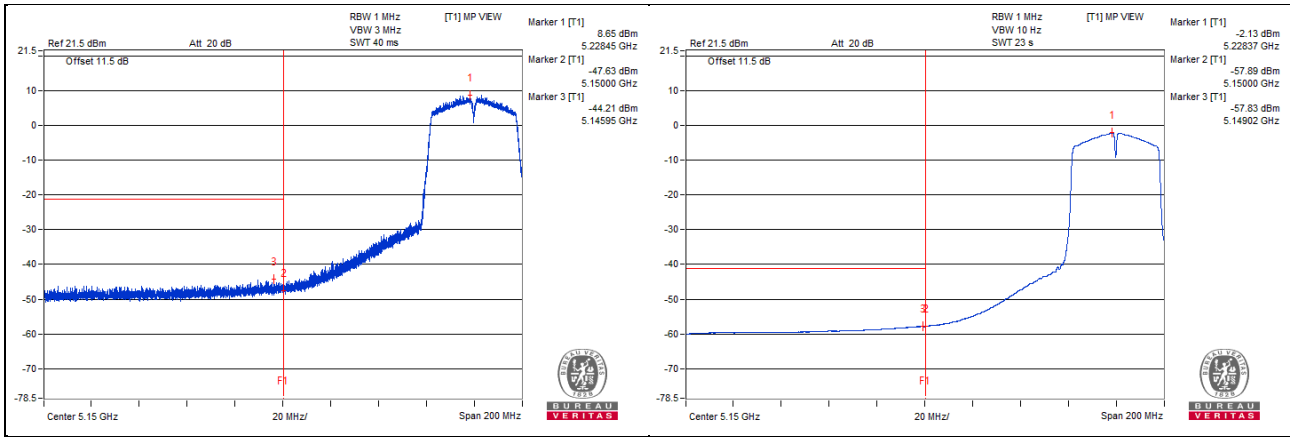
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
6.93 dBm
5.22031 GHz
Marker 2 [T1]
-45.91 dBm
4.20000 GHz
Marker 3 [T1]
-45.51 dBm
10.70468 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-43.89 dBm
21.69950 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-42.21 dBm
39.71875 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
-2.02 dBm
5.23125 GHz
Marker 2 [T1]
-62.47 dBm
5.09843 GHz
Marker 3 [T1]
-68.53 dBm
7.36406 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.36 dBm
21.65925 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.77 dBm
39.73000 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5145.95 PK	54.11	74	-19.89	-44.21	3.06	-41.15
2	5149.02 AV	40.49	54	-13.51	-57.83	3.06	-54.77

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

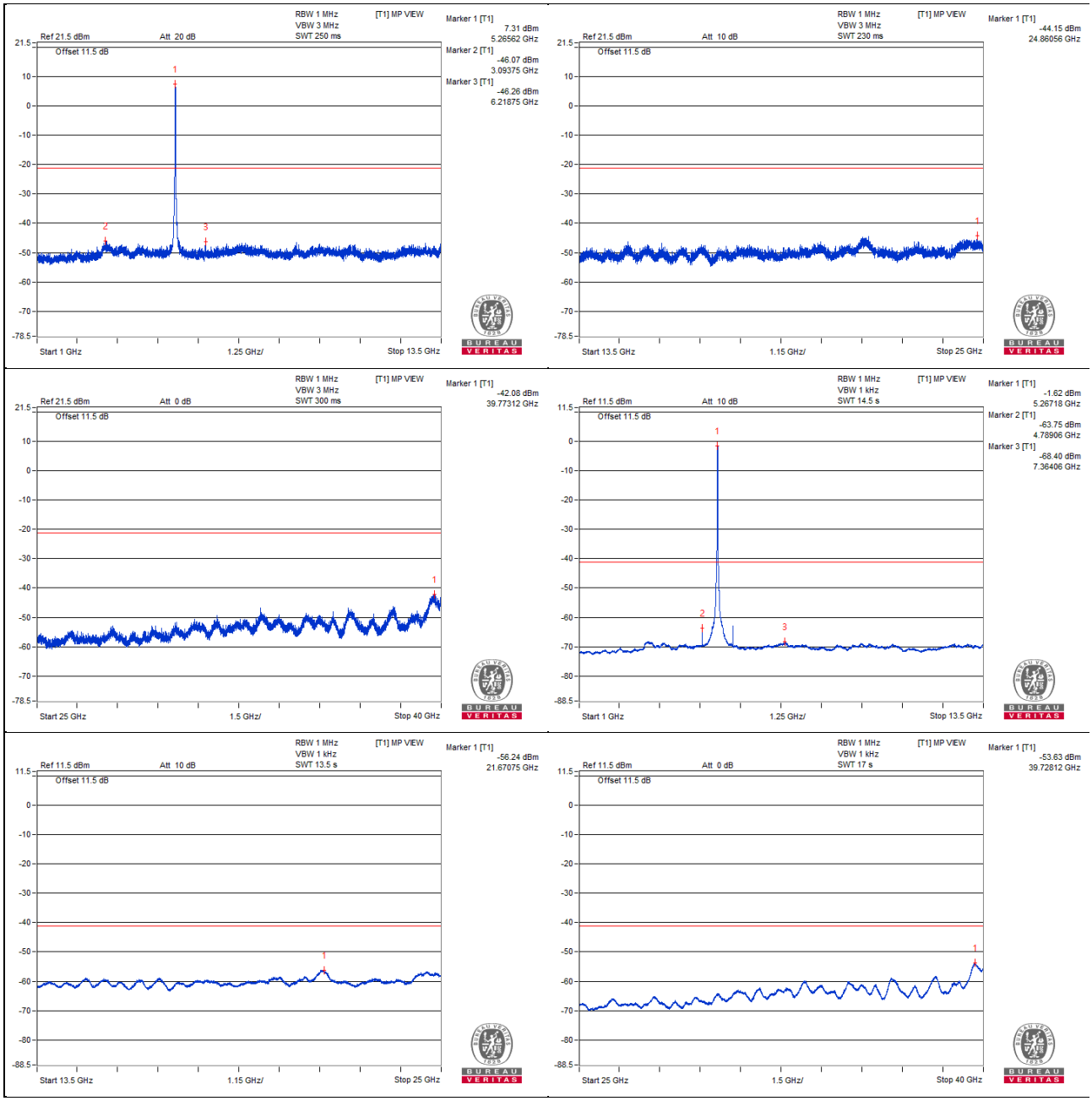


802.11ac (VHT40) - Channel 54

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5265.62 PK	106.4	*		7.31	3.83	11.14
2	3093.75 PK	53.02	68.2	-15.18	-46.07	3.83	-42.24
3	6218.75 PK	52.83	68.2	-15.37	-46.26	3.83	-42.43
4	24860.56 PK	54.94	68.2	-13.26	-44.15	3.83	-40.32
5	39773.12 PK	57.01	74	-16.99	-42.08	3.83	-38.25
6	5267.18 AV	97.47	*		-1.62	3.83	2.21
7	4789.06 AV	35.34	54	-18.66	-63.75	3.83	-59.92
8	7364.06 AV	30.69	54	-23.31	-68.4	3.83	-64.57
9	21670.75 AV	42.85	#		-56.24	3.83	-52.41
10	39728.12 AV	45.46	54	-8.54	-53.63	3.83	-49.8

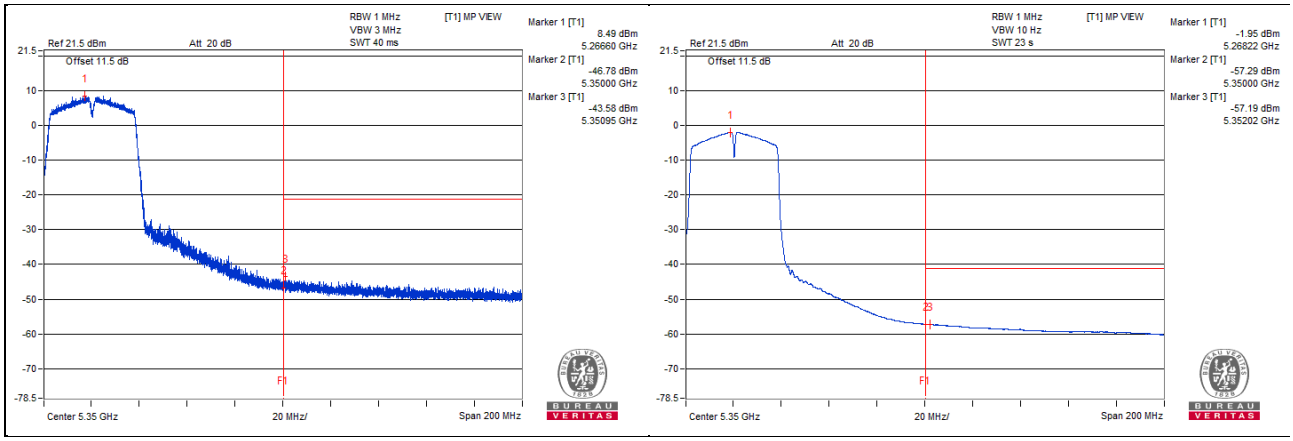
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
7.31 dBm
5.26562 GHz
Marker 2 [T1]
-46.07 dBm
3.09375 GHz
Marker 3 [T1]
-46.26 dBm
6.21875 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.15 dBm
24.86056 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-42.08 dBm
39.77312 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
-1.62 dBm
5.26718 GHz
Marker 2 [T1]
-63.75 dBm
4.78906 GHz
Marker 3 [T1]
-68.40 dBm
7.36406 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.24 dBm
21.67075 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.63 dBm
39.72812 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5350.95 PK	55.12	74	-18.88	-43.58	3.44	-40.14
2	5352.02 AV	41.51	54	-12.49	-57.19	3.44	-53.75

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

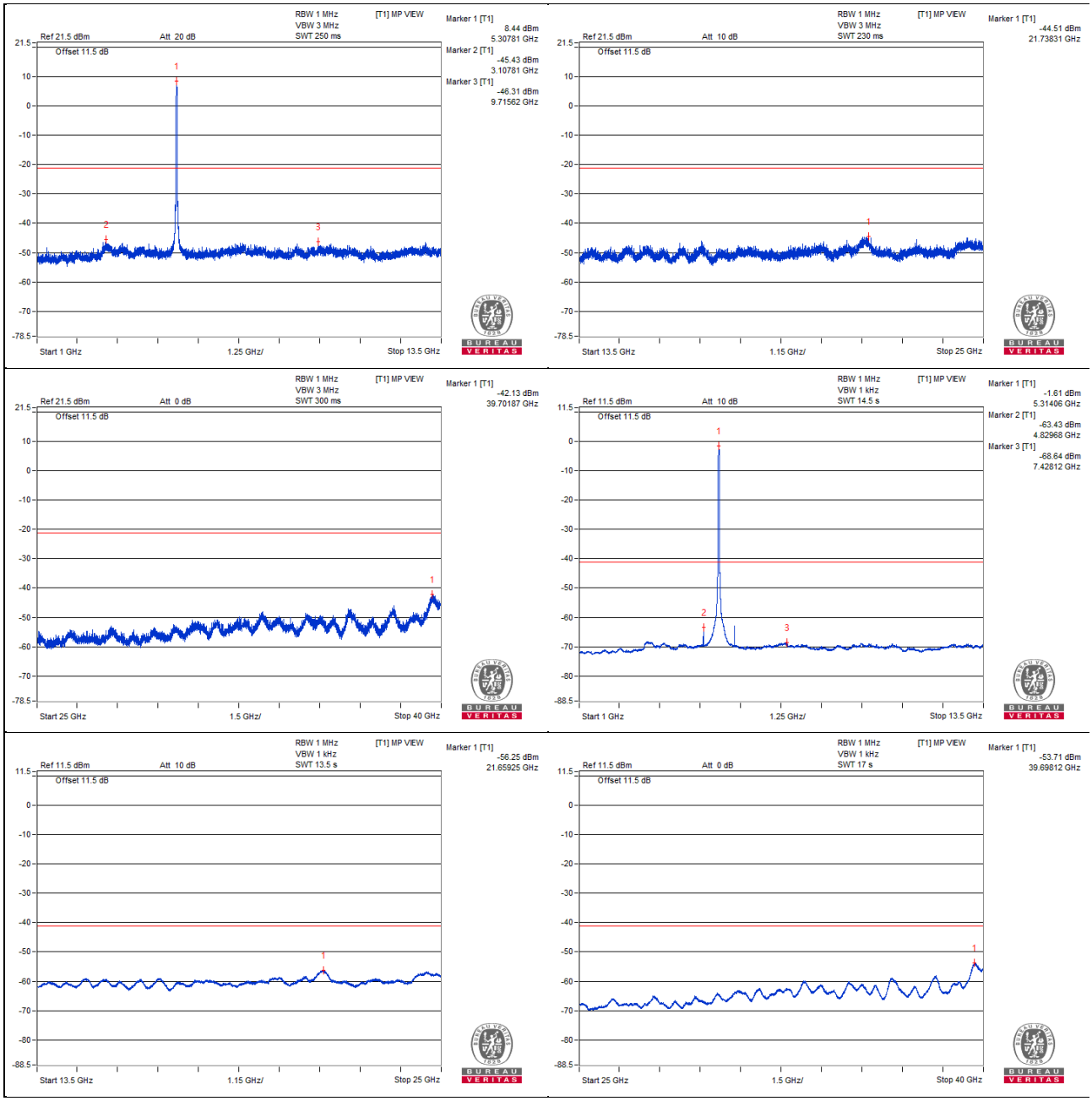


802.11ac (VHT40) - Channel 62

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5307.81 PK	107.53	*		8.44	3.83	12.27
2	3107.81 PK	53.66	68.2	-14.54	-45.43	3.83	-41.6
3	9715.62 PK	52.78	68.2	-15.42	-46.31	3.83	-42.48
4	21738.31 PK	54.58	68.2	-13.62	-44.51	3.83	-40.68
5	39701.87 PK	56.96	74	-17.04	-42.13	3.83	-38.3
6	5314.06 AV	97.48	*		-1.61	3.83	2.22
7	4829.68 AV	35.66	54	-18.34	-63.43	3.83	-59.6
8	7428.12 AV	30.45	54	-23.55	-68.64	3.83	-64.81
9	21659.25 AV	42.84	#		-56.25	3.83	-52.42
10	39698.12 AV	45.38	54	-8.62	-53.71	3.83	-49.88

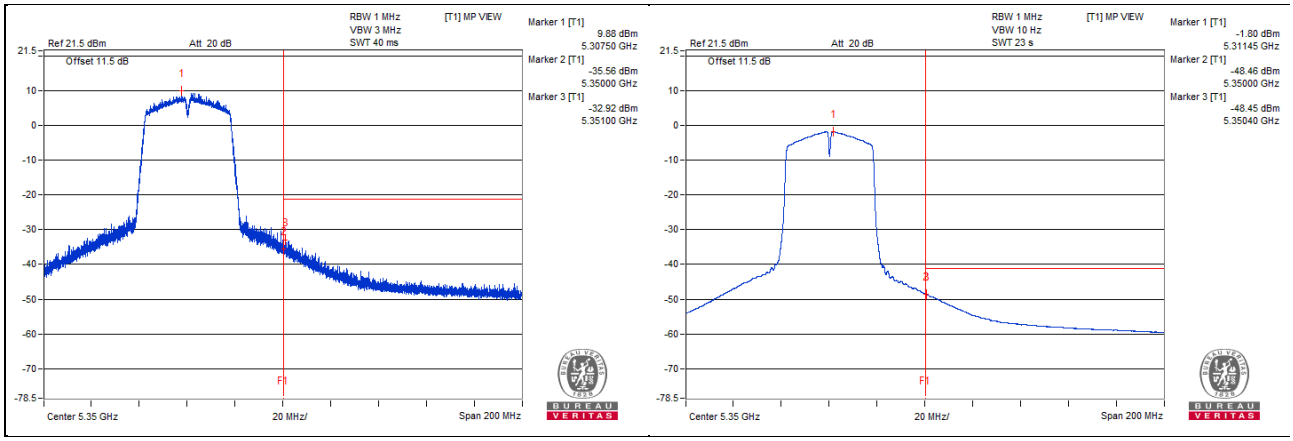
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
8.44 dBm
5.30781 GHz
Marker 2 [T1]
-45.43 dBm
3.10781 GHz
Marker 3 [T1]
-46.31 dBm
9.71562 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.51 dBm
21.73831 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-42.13 dBm
39.70187 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
-1.61 dBm
5.31406 GHz
Marker 2 [T1]
-63.43 dBm
4.82968 GHz
Marker 3 [T1]
-68.64 dBm
7.42812 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.25 dBm
21.65925 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.71 dBm
39.69812 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5351 PK	65.78	74	-8.22	-32.92	3.44	-29.48
2	5350.4 AV	50.25	54	-3.75	-48.45	3.44	-45.01

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

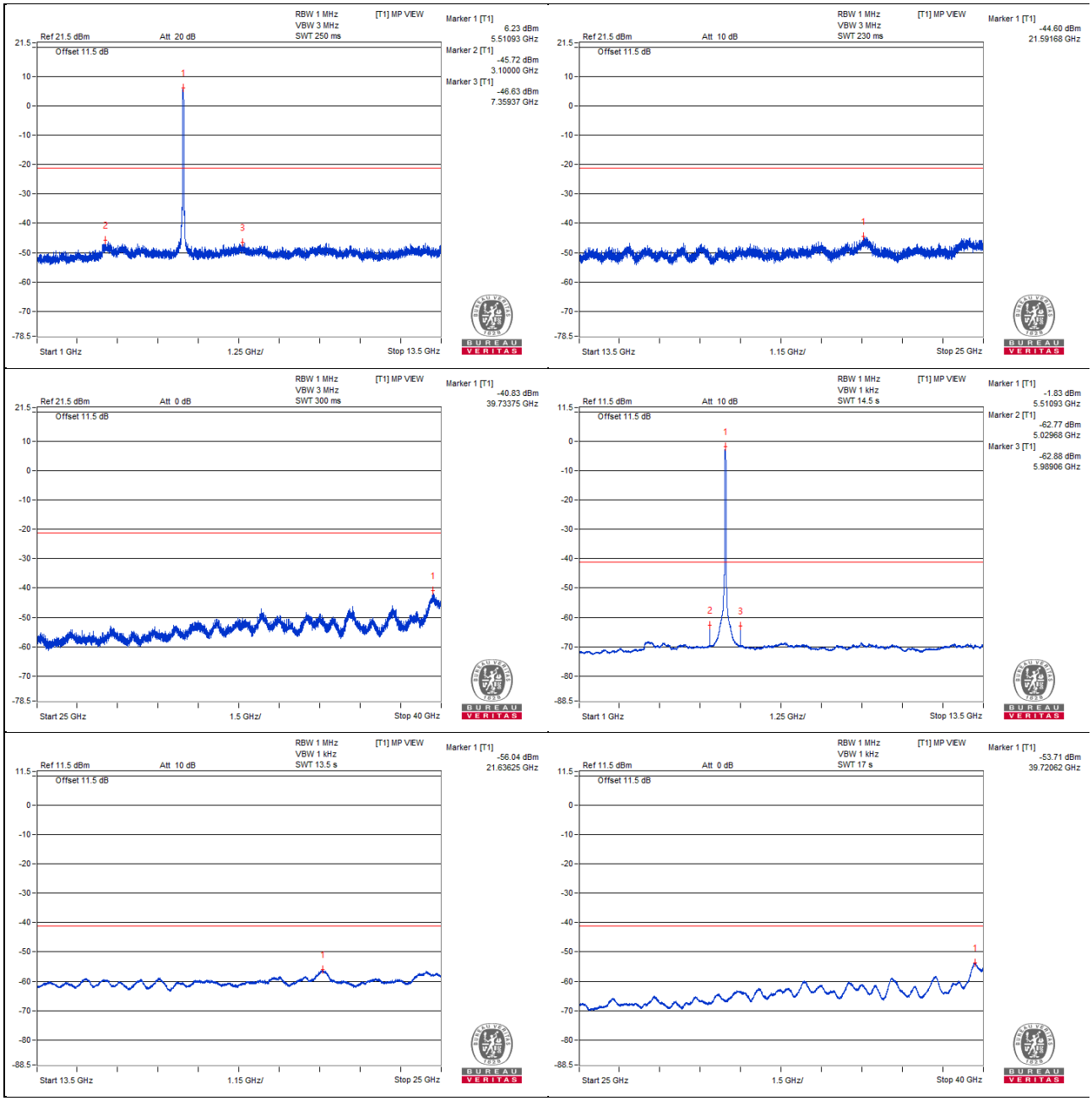


802.11ac (VHT40) - Channel 102

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5510.93 PK	105.32	*		6.23	3.83	10.06
2	3100 PK	53.37	68.2	-14.83	-45.72	3.83	-41.89
3	7359.37 PK	52.46	74	-21.54	-46.63	3.83	-42.8
4	21591.68 PK	54.49	68.2	-13.71	-44.6	3.83	-40.77
5	39733.75 PK	58.26	74	-15.74	-40.83	3.83	-37
6	5510.93 AV	97.26	*		-1.83	3.83	2
7	5029.68 AV	36.32	54	-17.68	-62.77	3.83	-58.94
8	5989.06 AV	36.21	#		-62.88	3.83	-59.05
9	21636.25 AV	43.05	#		-56.04	3.83	-52.21
10	39720.62 AV	45.38	54	-8.62	-53.71	3.83	-49.88

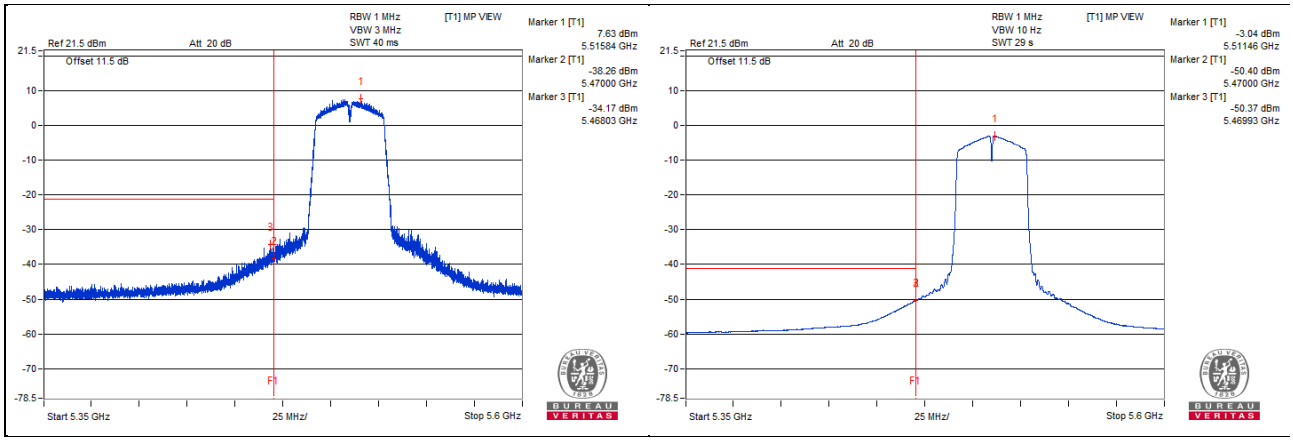
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
6.23 dBm
5.51093 GHz
Marker 2 [T1]
-45.72 dBm
3.10000 GHz
Marker 3 [T1]
-46.63 dBm
7.35937 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.60 dBm
21.59168 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-40.83 dBm
39.73375 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
-1.83 dBm
5.51093 GHz
Marker 2 [T1]
-62.77 dBm
5.02968 GHz
Marker 3 [T1]
-62.88 dBm
5.98906 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.04 dBm
21.63625 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.71 dBm
39.72062 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5468.03 PK	64.92	68.2	-3.28	-34.17	3.83	-30.34

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

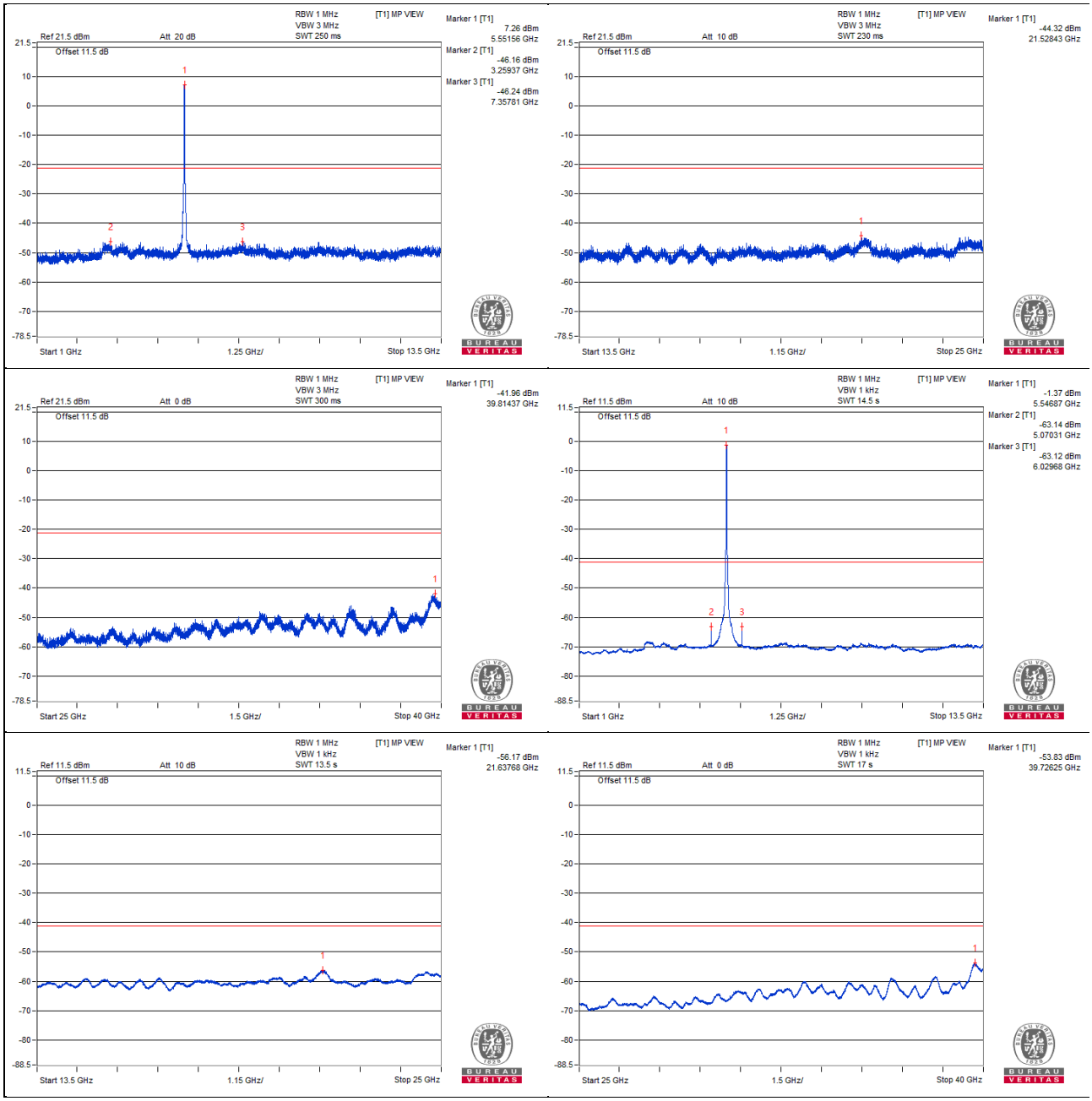


802.11ac (VHT40) - Channel 110

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5551.56 PK	106.35	*		7.26	3.83	11.09
2	3259.37 PK	52.93	68.2	-15.27	-46.16	3.83	-42.33
3	7357.81 PK	52.85	74	-21.15	-46.24	3.83	-42.41
4	21528.43 PK	54.77	68.2	-13.43	-44.32	3.83	-40.49
5	39814.37 PK	57.13	74	-16.87	-41.96	3.83	-38.13
6	5546.87 AV	97.72	*		-1.37	3.83	2.46
7	5070.31 AV	35.95	54	-18.05	-63.14	3.83	-59.31
8	6029.68 AV	35.97	#		-63.12	3.83	-59.29
9	21637.68 AV	42.92	#		-56.17	3.83	-52.34
10	39726.25 AV	45.26	54	-8.74	-53.83	3.83	-50

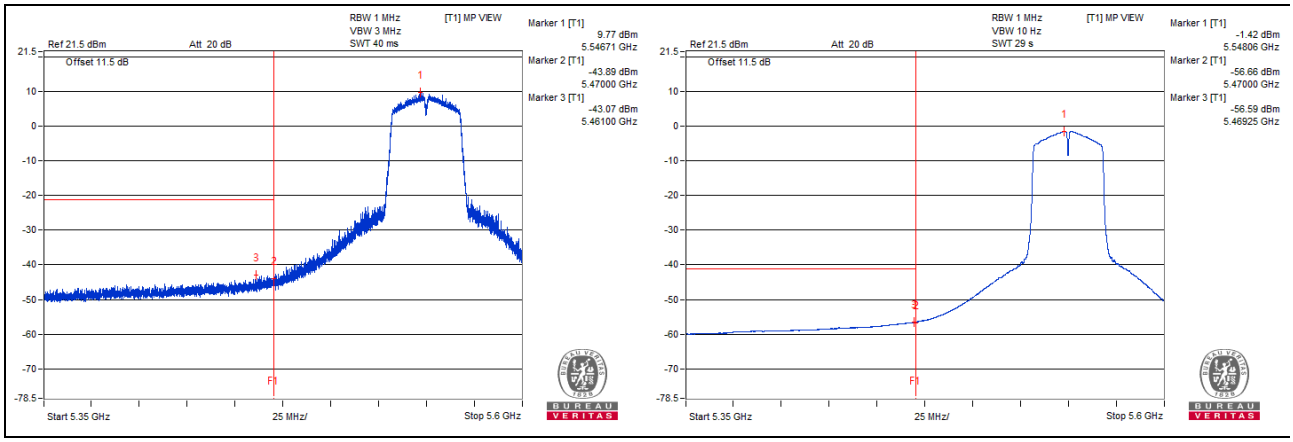
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
7.26 dBm
5.55156 GHz
Marker 2 [T1]
-46.16 dBm
3.25937 GHz
Marker 3 [T1]
-46.24 dBm
7.35781 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.32 dBm
21.52843 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.96 dBm
39.81437 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
-1.37 dBm
5.54687 GHz
Marker 2 [T1]
-63.14 dBm
5.07031 GHz
Marker 3 [T1]
-63.12 dBm
6.02968 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.17 dBm
21.63768 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.83 dBm
39.72625 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5461 PK	56.02	68.2	-12.18	-43.07	3.83	-39.24

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

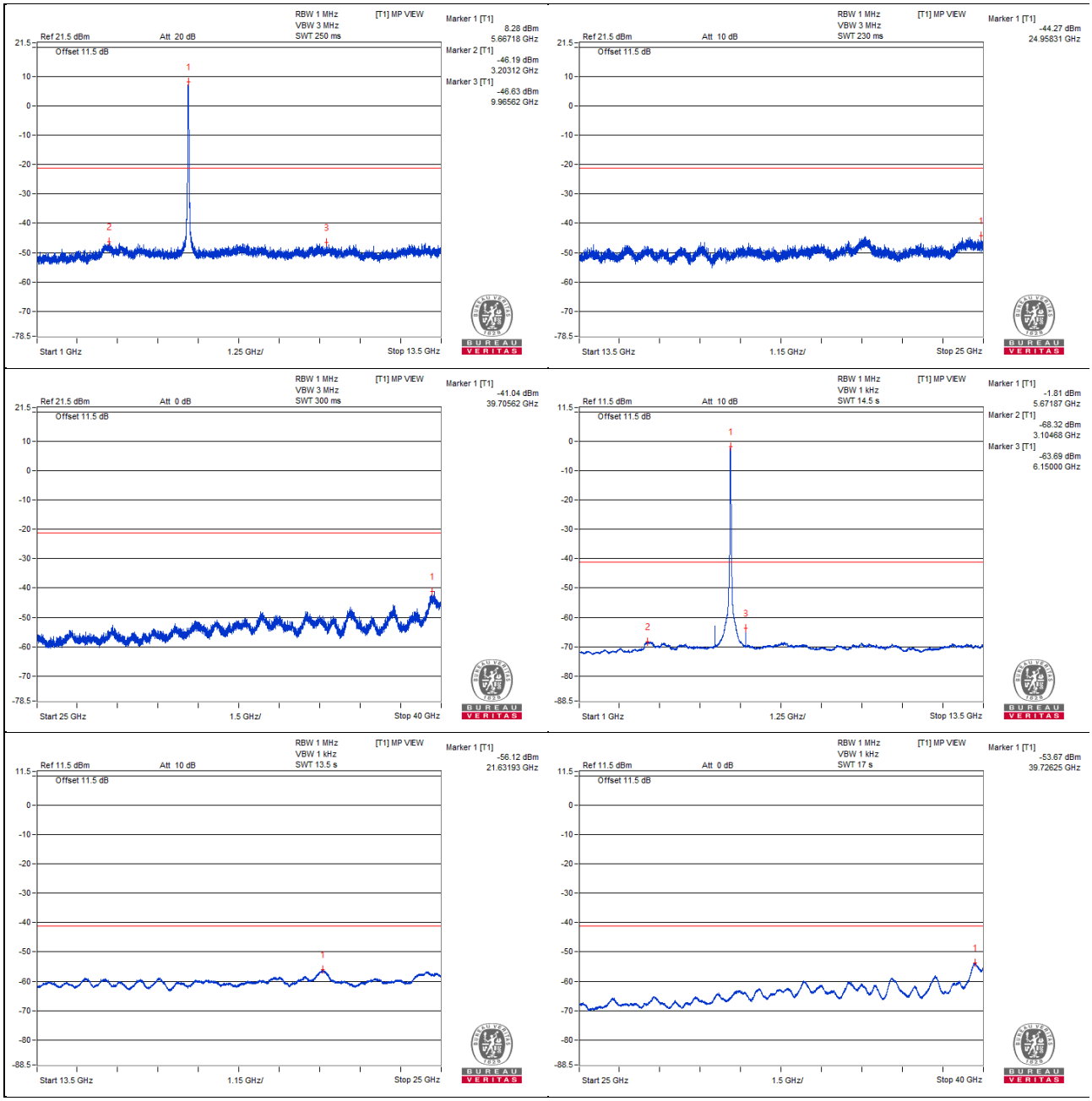


802.11ac (VHT40) - Channel 134

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5667.18 PK	107.37	*		8.28	3.83	12.11
2	3203.12 PK	52.9	68.2	-15.3	-46.19	3.83	-42.36
3	9965.62 PK	52.46	68.2	-15.74	-46.63	3.83	-42.8
4	24958.31 PK	54.82	68.2	-13.38	-44.27	3.83	-40.44
5	39705.62 PK	58.05	74	-15.95	-41.04	3.83	-37.21
6	5671.87 AV	97.28	*		-1.81	3.83	2.02
7	3104.68 AV	30.77	#		-68.32	3.83	-64.49
8	6150 AV	35.4	#		-63.69	3.83	-59.86
9	21631.93 AV	42.97	#		-56.12	3.83	-52.29
10	39726.25 AV	45.42	54	-8.58	-53.67	3.83	-49.84

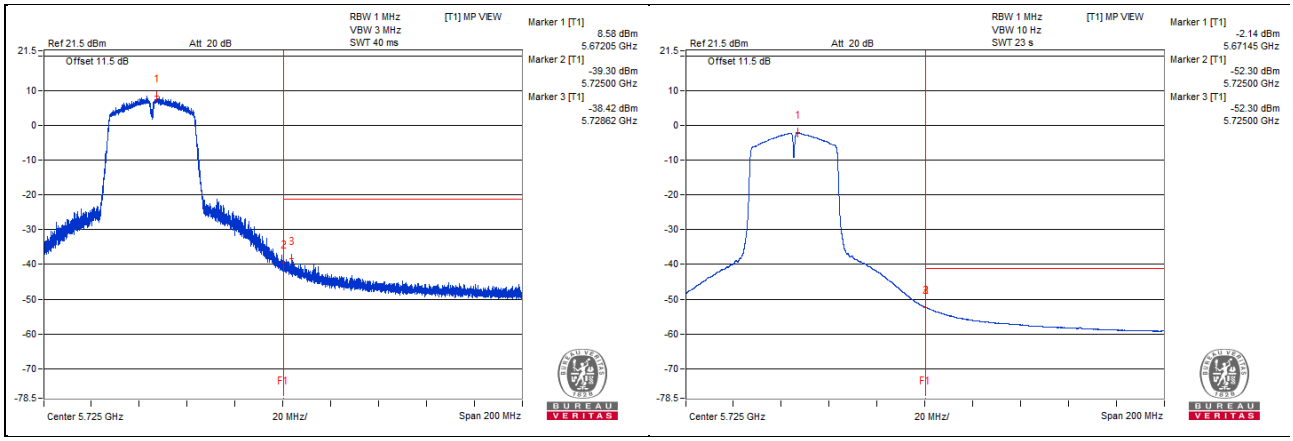
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
8.28 dBm
5.66718 GHz
Marker 2 [T1]
-46.19 dBm
3.20312 GHz
Marker 3 [T1]
-46.63 dBm
9.96562 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.27 dBm
24.95831 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.04 dBm
39.70562 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
-1.81 dBm
5.67187 GHz
Marker 2 [T1]
-68.32 dBm
3.10468 GHz
Marker 3 [T1]
-63.69 dBm
6.15000 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.12 dBm
21.63193 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.67 dBm
39.72625 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5728.62 PK	60.67	68.2	-7.53	-38.42	3.83	-34.59

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

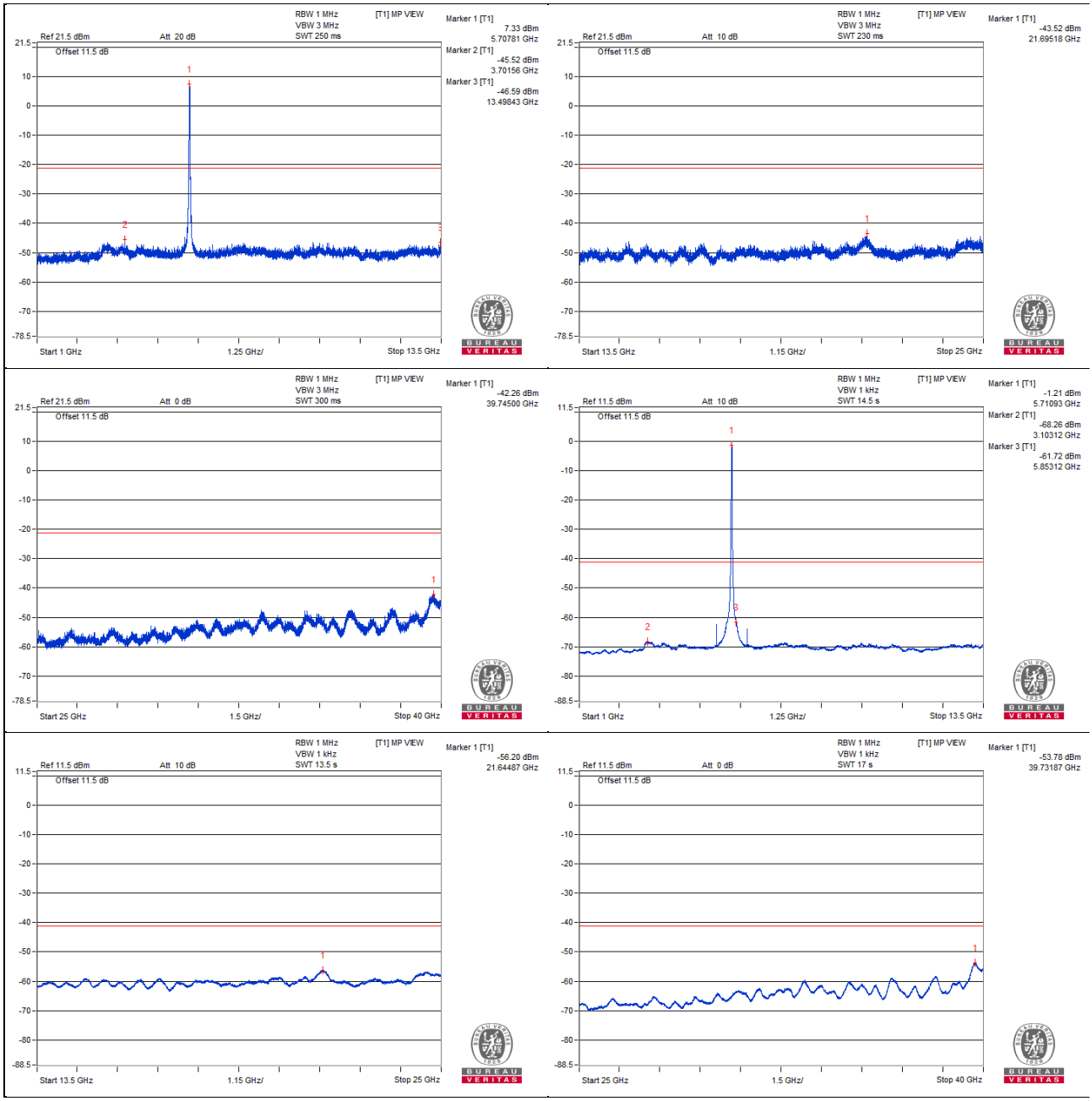


802.11ac (VHT40) - Channel 142

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5707.81 PK	106.42	*		7.33	3.83	11.16
2	3701.56 PK	53.57	74	-20.43	-45.52	3.83	-41.69
3	13498.43 PK	52.5	68.2	-15.7	-46.59	3.83	-42.76
4	21695.18 PK	55.57	68.2	-12.63	-43.52	3.83	-39.69
5	39745 PK	56.83	74	-17.17	-42.26	3.83	-38.43
6	5710.93 AV	97.88	*		-1.21	3.83	2.62
7	3103.12 AV	30.83	#		-68.26	3.83	-64.43
8	5853.12 AV	37.37	#		-61.72	3.83	-57.89
9	21644.87 AV	42.89	#		-56.2	3.83	-52.37
10	39731.87 AV	45.31	54	-8.69	-53.78	3.83	-49.95

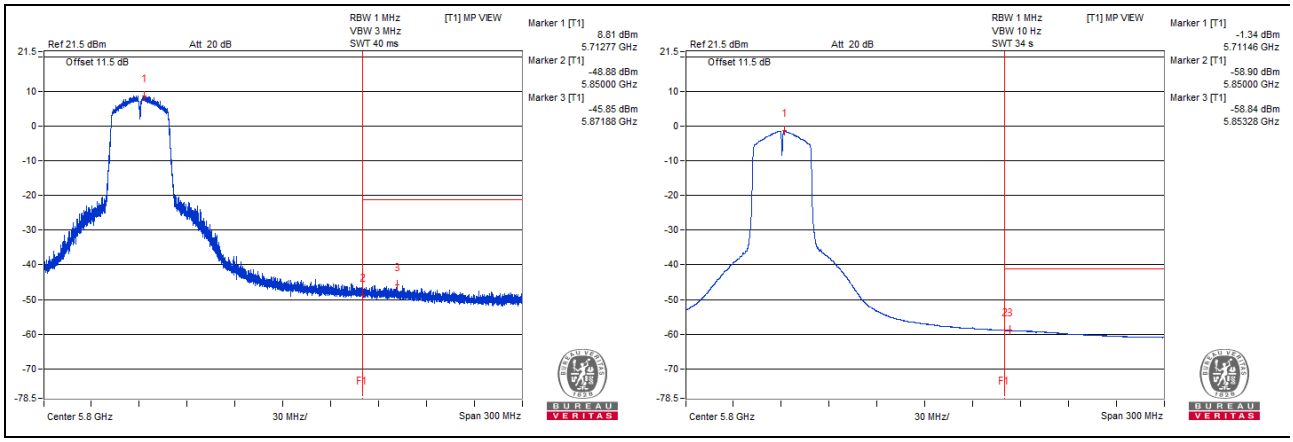
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
7.33 dBm
5.70781 GHz
Marker 2 [T1]
-45.52 dBm
3.70156 GHz
Marker 3 [T1]
-46.59 dBm
13.49843 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-43.52 dBm
21.69518 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-42.26 dBm
39.74500 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
-1.21 dBm
5.71093 GHz
Marker 2 [T1]
-68.26 dBm
3.10312 GHz
Marker 3 [T1]
-61.72 dBm
5.85312 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.20 dBm
21.64487 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.78 dBm
39.73187 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5871.88 PK	53.24	68.2	-14.96	-45.85	3.83	-42.02

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



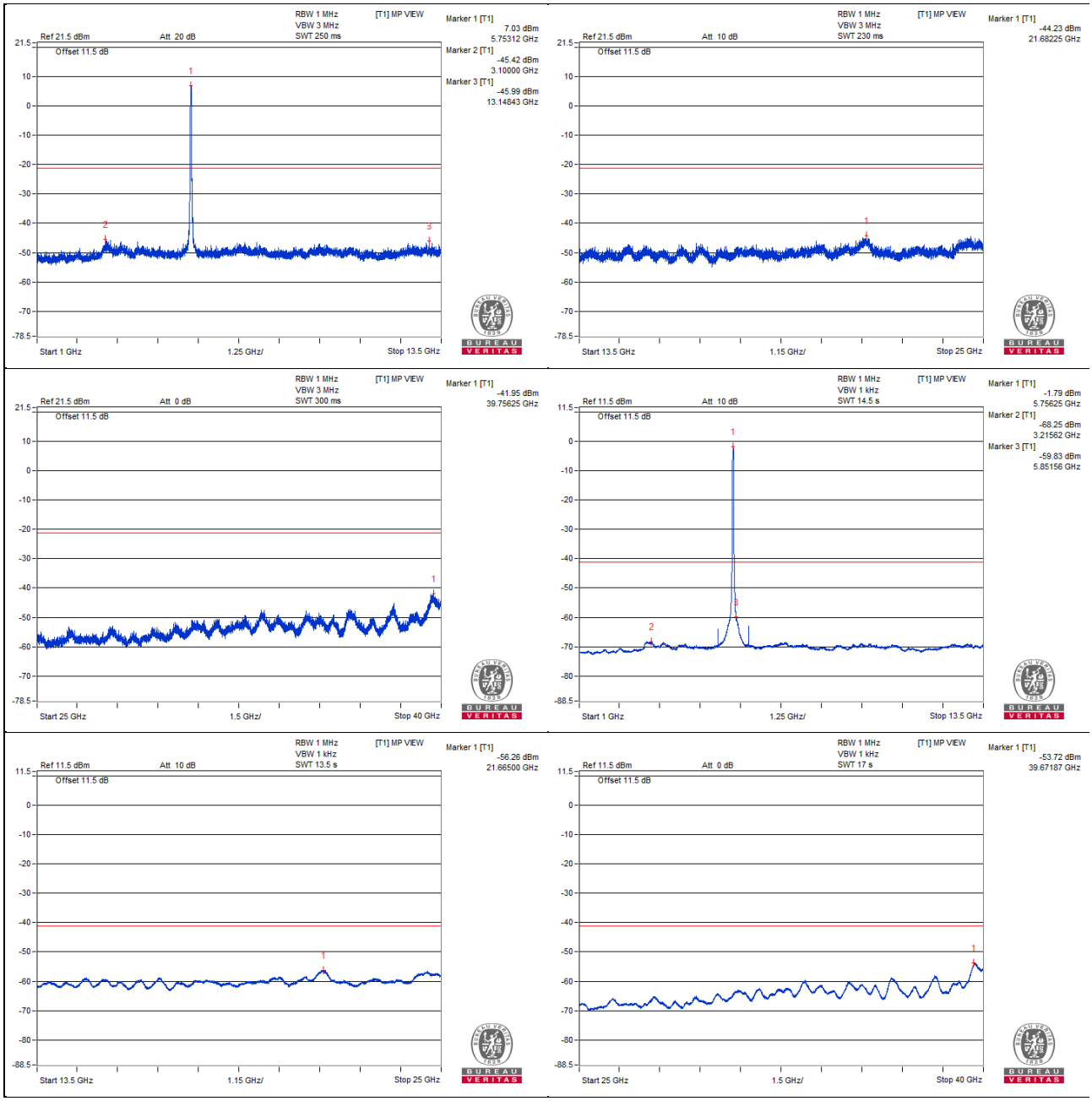
802.11ac (VHT40) – Channel 151

Conducted spurious emission table

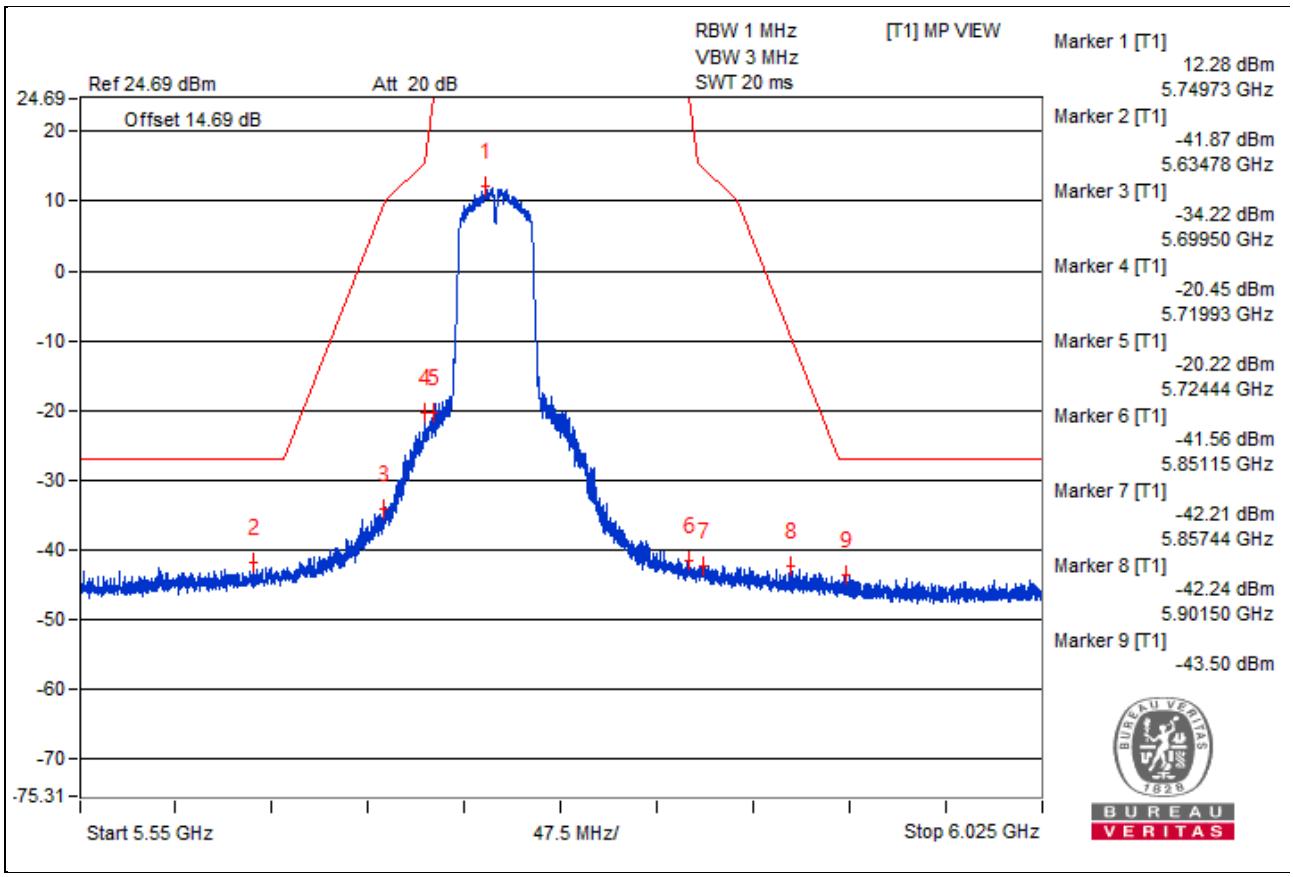
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5753.12 PK	106.12	*		7.03	3.83	10.86
2	3100 PK	53.67	68.2	-14.53	-45.42	3.83	-41.59
3	13148.43 PK	53.1	68.2	-15.1	-45.99	3.83	-42.16
4	21682.25 PK	54.86	68.2	-13.34	-44.23	3.83	-40.4
5	39756.25 PK	57.14	74	-16.86	-41.95	3.83	-38.12
6	5756.25 AV	97.3	*		-1.79	3.83	2.04
7	3215.62 AV	30.84	#		-68.25	3.83	-64.42
8	5851.56 AV	39.26	#		-59.83	3.83	-56
9	21665 AV	42.83	#		-56.26	3.83	-52.43
10	39671.87 AV	45.37	54	-8.63	-53.72	3.83	-49.89

Note :

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


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
7.03 dBm
5.75312 GHz
Marker 2 [T1]
-45.42 dBm
3.10000 GHz
Marker 3 [T1]
-45.99 dBm
13.14843 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.23 dBm
21.68225 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.95 dBm
39.75625 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
-1.79 dBm
5.75625 GHz
Marker 2 [T1]
-68.25 dBm
3.21562 GHz
Marker 3 [T1]
-59.83 dBm
5.85156 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.26 dBm
21.66500 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.72 dBm
39.67187 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table



Note:
1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.19 dBi).
2. The test results were EIRP.

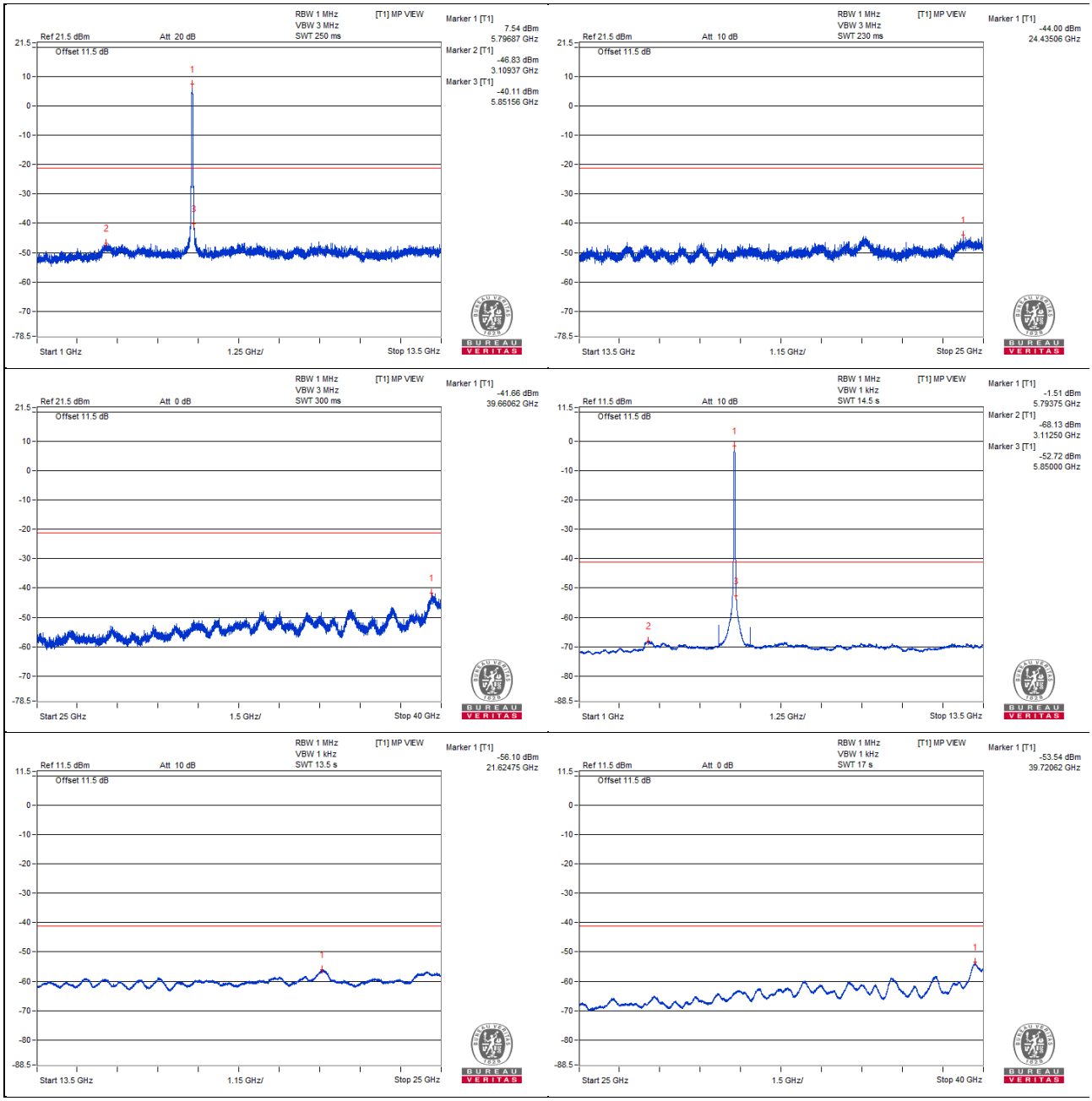
802.11ac (VHT40) – Channel 159

Conducted spurious emission table

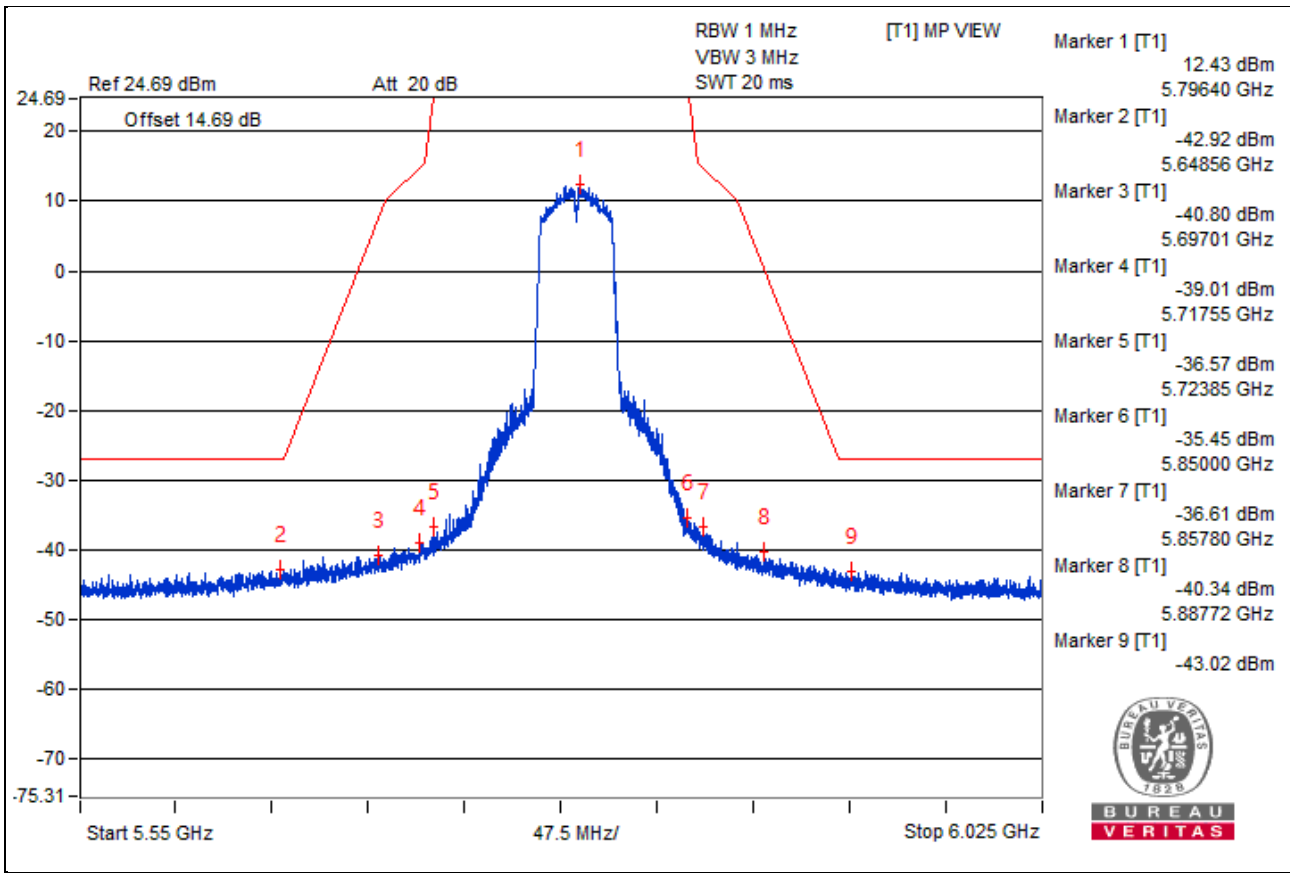
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5796.87 PK	106.63	*		7.54	3.83	11.37
2	3109.37 PK	52.26	68.2	-15.94	-46.83	3.83	-43
3	5851.56 PK	58.98	68.2	-9.22	-40.11	3.83	-36.28
4	24435.06 PK	55.09	68.2	-13.11	-44	3.83	-40.17
5	39660.62 PK	57.43	74	-16.57	-41.66	3.83	-37.83
6	5793.75 AV	97.58	*		-1.51	3.83	2.32
7	3112.5 AV	30.96	#		-68.13	3.83	-64.3
8	5850 AV	46.37	#		-52.72	3.83	-48.89
9	21624.75 AV	42.99	#		-56.1	3.83	-52.27
10	39720.62 AV	45.55	54	-8.45	-53.54	3.83	-49.71

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.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
7.54 dBm
5.79687 GHz
Marker 2 [T1]
-46.83 dBm
3.10937 GHz
Marker 3 [T1]
-40.11 dBm
5.85156 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.00 dBm
24.43506 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.66 dBm
39.66062 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
-1.51 dBm
5.79375 GHz
Marker 2 [T1]
-68.13 dBm
3.11250 GHz
Marker 3 [T1]
-52.72 dBm
5.85000 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.10 dBm
21.62475 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.54 dBm
39.72062 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table



Note:

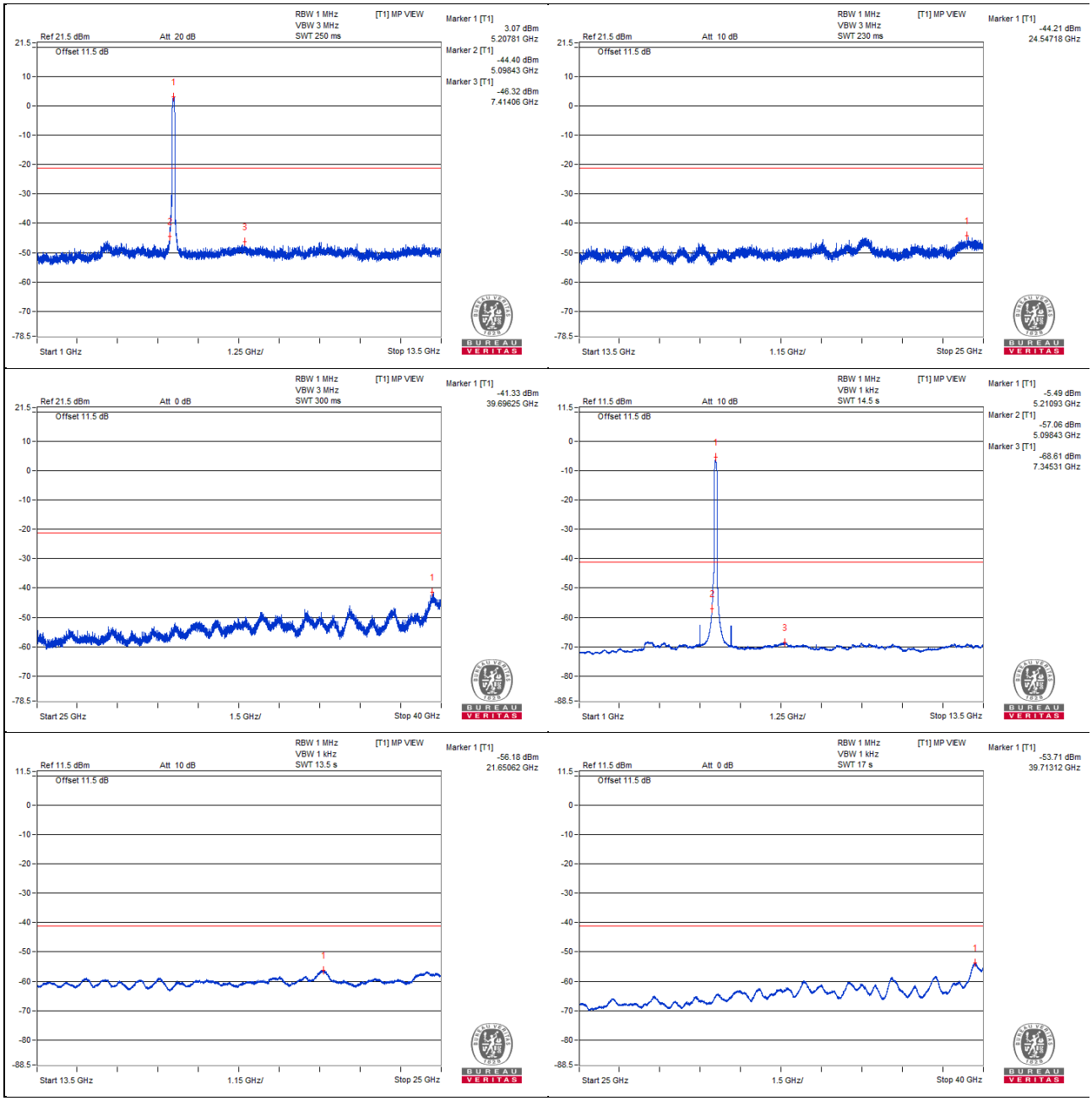
1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.19 dBi).
2. The test results were EIRP.

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	5207.81 PK	102.16	*		3.07	3.83	6.9
2	5098.43 PK	54.69	74	-19.31	-44.4	3.83	-40.57
3	7414.06 PK	52.77	74	-21.23	-46.32	3.83	-42.49
4	24547.18 PK	54.88	68.2	-13.32	-44.21	3.83	-40.38
5	39696.25 PK	57.76	74	-16.24	-41.33	3.83	-37.5
6	5210.93 AV	93.6	*		-5.49	3.83	-1.66
7	5098.43 AV	42.03	54	-11.97	-57.06	3.83	-53.23
8	7345.31 AV	30.48	54	-23.52	-68.61	3.83	-64.78
9	21650.62 AV	42.91	#		-56.18	3.83	-52.35
10	39713.12 AV	45.38	54	-8.62	-53.71	3.83	-49.88

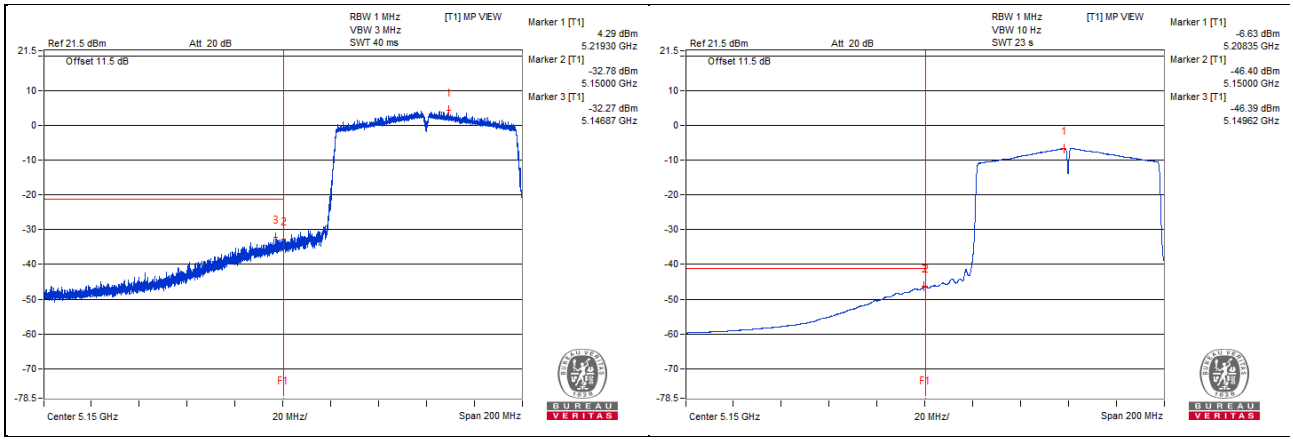
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
3.07 dBm
5.20781 GHz
Marker 2 [T1]
-44.40 dBm
5.09843 GHz
Marker 3 [T1]
-46.32 dBm
7.41406 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.21 dBm
24.54718 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.33 dBm
39.69625 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
-5.49 dBm
5.21093 GHz
Marker 2 [T1]
-57.06 dBm
5.09843 GHz
Marker 3 [T1]
-68.61 dBm
7.34531 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.18 dBm
21.65062 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.71 dBm
39.71312 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5146.87 PK	66.05	74	-7.95	-32.27	3.06	-29.21
2	5149.62 AV	51.93	54	-2.07	-46.39	3.06	-43.33

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

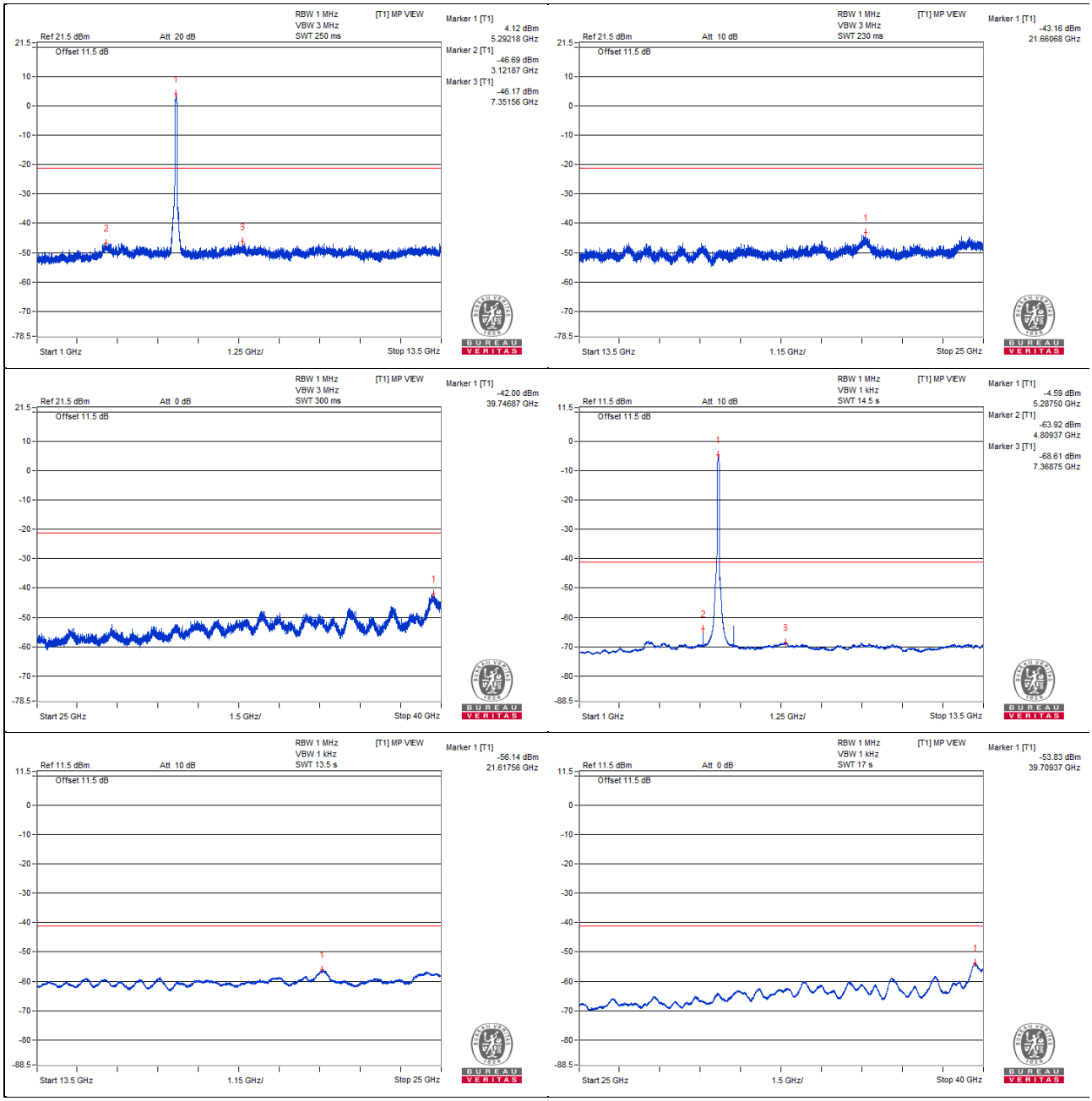


802.11ac (VHT80) - Channel 58

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	103.21	*		4.12	3.83	7.95
2	3121.87 PK	52.4	68.2	-15.8	-46.69	3.83	-42.86
3	7351.56 PK	52.92	74	-21.08	-46.17	3.83	-42.34
4	21660.68 PK	55.93	68.2	-12.27	-43.16	3.83	-39.33
5	39746.87 PK	57.09	74	-16.91	-42	3.83	-38.17
6	5287.5 AV	94.5	*		-4.59	3.83	-0.76
7	4809.37 AV	35.17	54	-18.83	-63.92	3.83	-60.09
8	7368.75 AV	30.48	54	-23.52	-68.61	3.83	-64.78
9	21617.56 AV	42.95	#		-56.14	3.83	-52.31
10	39709.37 AV	45.26	54	-8.74	-53.83	3.83	-50

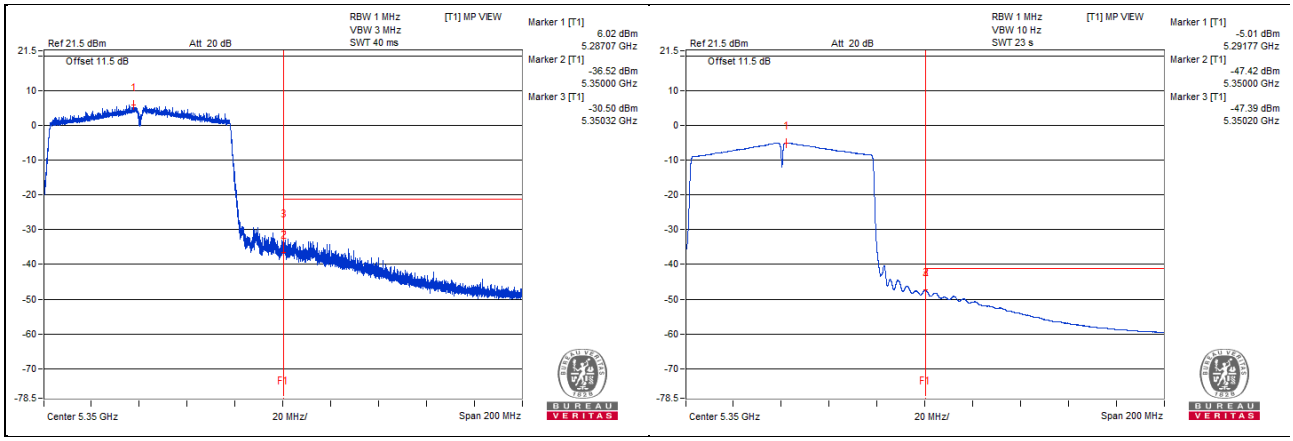
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
4.12 dBm
5.29218 GHz
Marker 2 [T1]
-46.69 dBm
3.12187 GHz
Marker 3 [T1]
-46.17 dBm
7.35156 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-43.16 dBm
21.66068 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-42.00 dBm
39.74687 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
-4.59 dBm
5.28750 GHz
Marker 2 [T1]
-63.92 dBm
4.80937 GHz
Marker 3 [T1]
-68.61 dBm
7.36875 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.14 dBm
21.61756 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.83 dBm
39.70937 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5350.32 PK	68.2	74	-5.8	-30.5	3.44	-27.06
2	5350.2 AV	51.31	54	-2.69	-47.39	3.44	-43.95

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

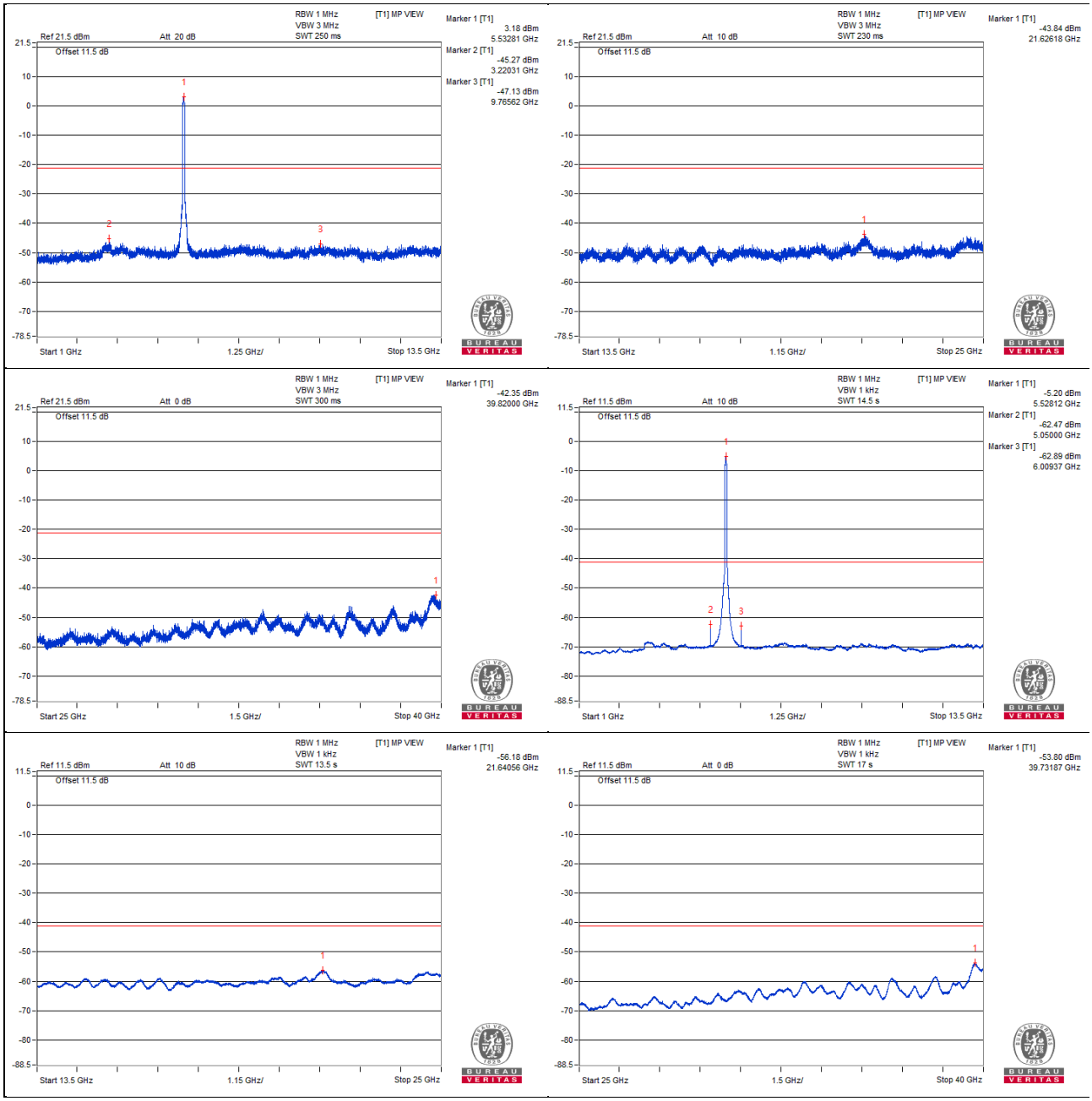


802.11ac (VHT80) - Channel 106

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	5532.81 PK	102.27	*		3.18	3.83	7.01
2	3220.31 PK	53.82	68.2	-14.38	-45.27	3.83	-41.44
3	9765.62 PK	51.96	68.2	-16.24	-47.13	3.83	-43.3
4	21626.18 PK	55.25	68.2	-12.95	-43.84	3.83	-40.01
5	39820 PK	56.74	74	-17.26	-42.35	3.83	-38.52
6	5528.12 AV	93.89	*		-5.2	3.83	-1.37
7	5050 AV	36.62	54	-17.38	-62.47	3.83	-58.64
8	6009.37 AV	36.2	#		-62.89	3.83	-59.06
9	21640.56 AV	42.91	#		-56.18	3.83	-52.35
10	39731.87 AV	45.29	54	-8.71	-53.8	3.83	-49.97

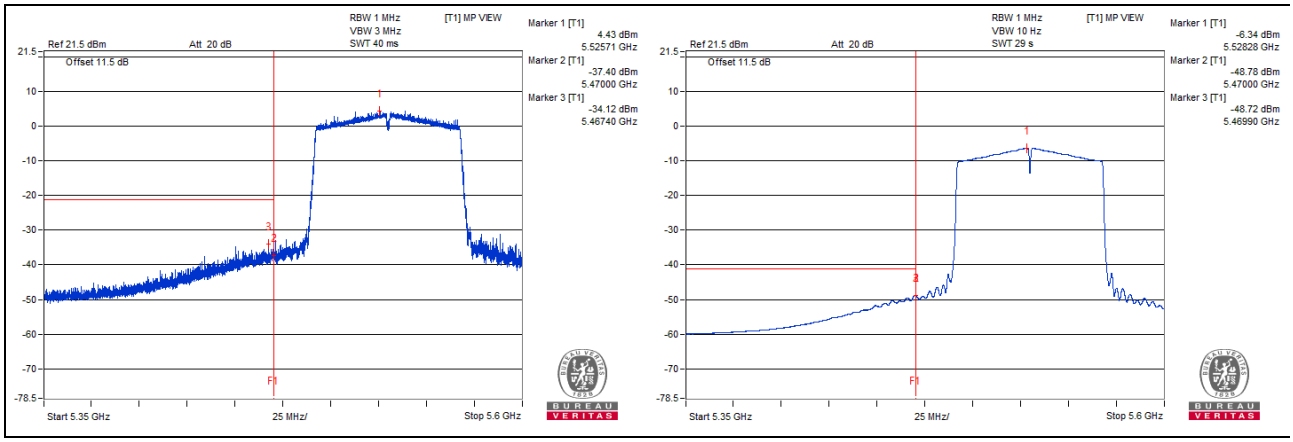
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Marker 1 [T1]
3.18 dBm
5.53281 GHz
Marker 2 [T1]
-45.27 dBm
3.22031 GHz
Marker 3 [T1]
-47.13 dBm
9.76562 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-43.84 dBm
21.62618 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-42.35 dBm
39.82000 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-5.20 dBm
5.52812 GHz
Marker 2 [T1]
-62.47 dBm
5.05000 GHz
Marker 3 [T1]
-62.89 dBm
6.00937 GHz
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Marker 1 [T1]
-56.18 dBm
21.64056 GHz
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Marker 1 [T1]
-53.80 dBm
39.73187 GHz
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5467.4 PK	64.97	68.2	-3.23	-34.12	3.83	-30.29

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

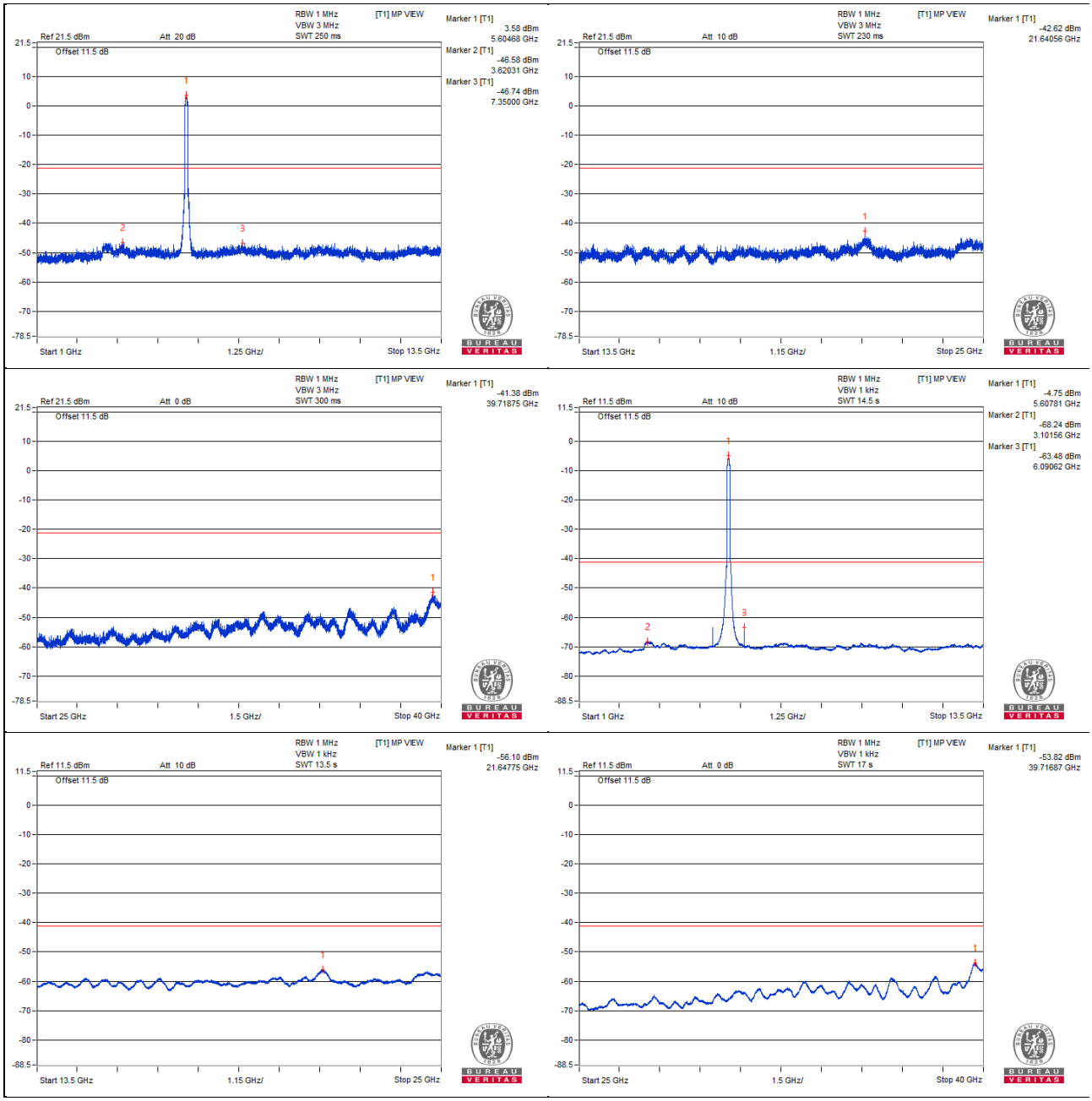


802.11ac (VHT80) - Channel 122

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5604.68 PK	102.67	*		3.58	3.83	7.41
2	3620.31 PK	52.51	74	-21.49	-46.58	3.83	-42.75
3	7350 PK	52.35	74	-21.65	-46.74	3.83	-42.91
4	21640.56 PK	56.47	68.2	-11.73	-42.62	3.83	-38.79
5	39718.75 PK	57.71	74	-16.29	-41.38	3.83	-37.55
6	5607.81 AV	94.34	*		-4.75	3.83	-0.92
7	3101.56 AV	30.85	#		-68.24	3.83	-64.41
8	6090.62 AV	35.61	#		-63.48	3.83	-59.65
9	21647.75 AV	42.99	#		-56.1	3.83	-52.27
10	39716.87 AV	45.27	54	-8.73	-53.82	3.83	-49.99

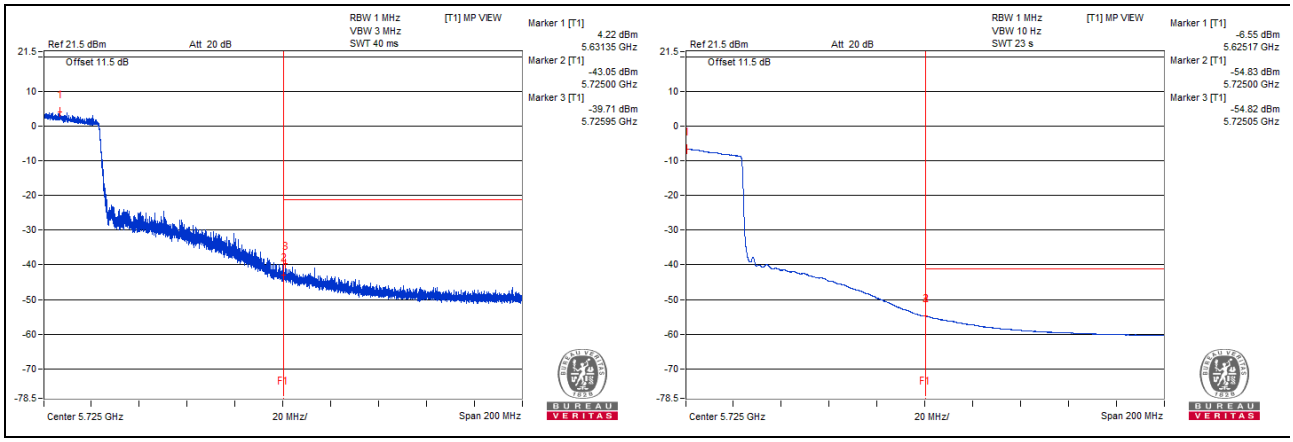
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
3.58 dBm
5.60468 GHz
Marker 2 [T1]
-46.58 dBm
3.62031 GHz
Marker 3 [T1]
-46.74 dBm
7.35000 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-42.62 dBm
21.64056 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.38 dBm
39.71875 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
-4.75 dBm
5.60781 GHz
Marker 2 [T1]
-68.24 dBm
3.10156 GHz
Marker 3 [T1]
-63.48 dBm
6.09062 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.10 dBm
21.64775 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.82 dBm
39.71687 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5725.95 PK	59.38	68.2	-8.82	-39.71	3.83	-35.88

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

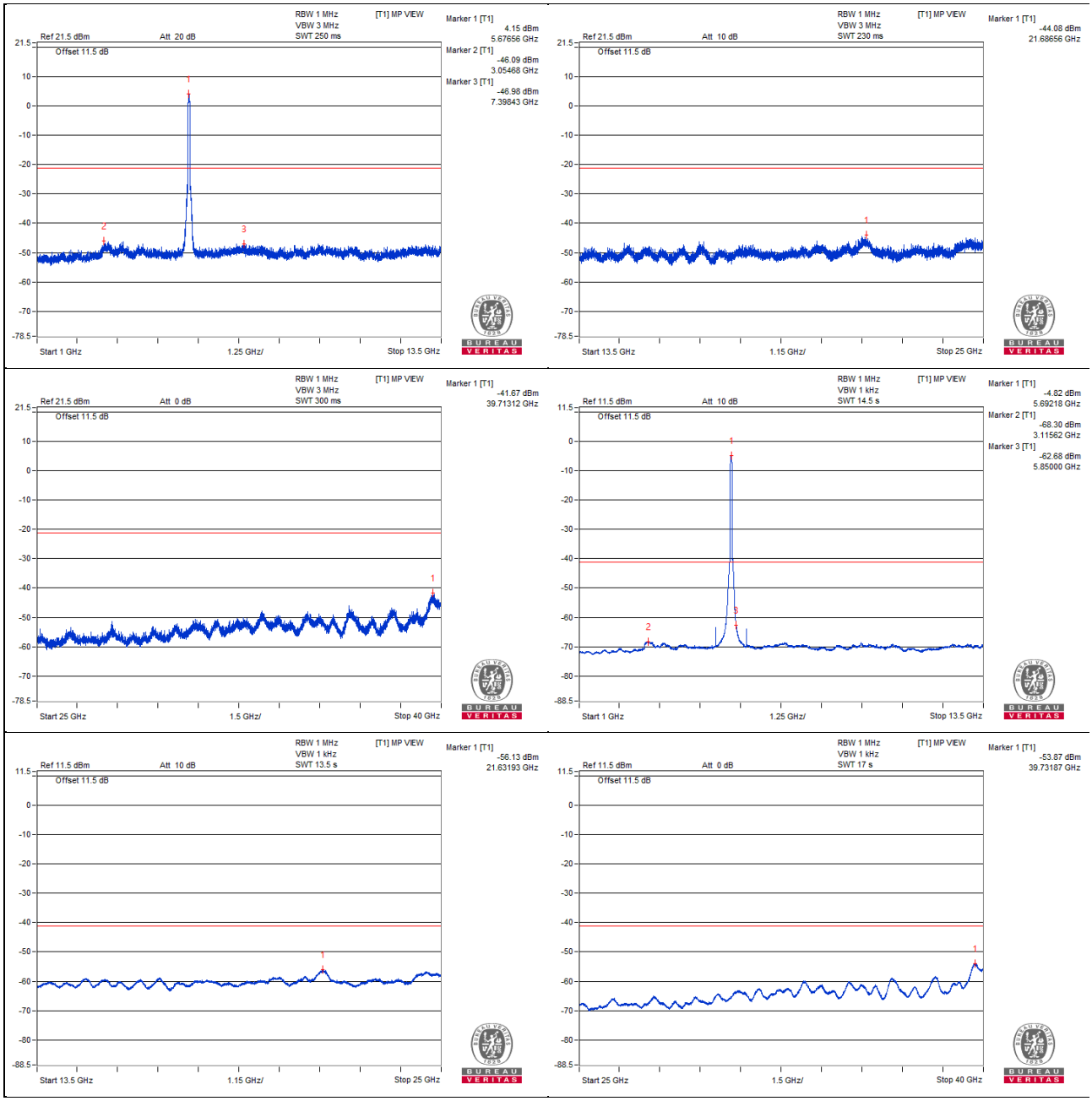


802.11ac (VHT80) - Channel 138

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	5676.56 PK	103.24	*		4.15	3.83	7.98
2	3054.68 PK	53	68.2	-15.2	-46.09	3.83	-42.26
3	7398.43 PK	52.11	74	-21.89	-46.98	3.83	-43.15
4	21686.56 PK	55.01	68.2	-13.19	-44.08	3.83	-40.25
5	39713.12 PK	57.42	74	-16.58	-41.67	3.83	-37.84
6	5692.18 AV	94.27	*		-4.82	3.83	-0.99
7	3115.62 AV	30.79	#		-68.3	3.83	-64.47
8	5850 AV	36.41	#		-62.68	3.83	-58.85
9	21631.93 AV	42.96	#		-56.13	3.83	-52.3
10	39731.87 AV	45.22	54	-8.78	-53.87	3.83	-50.04

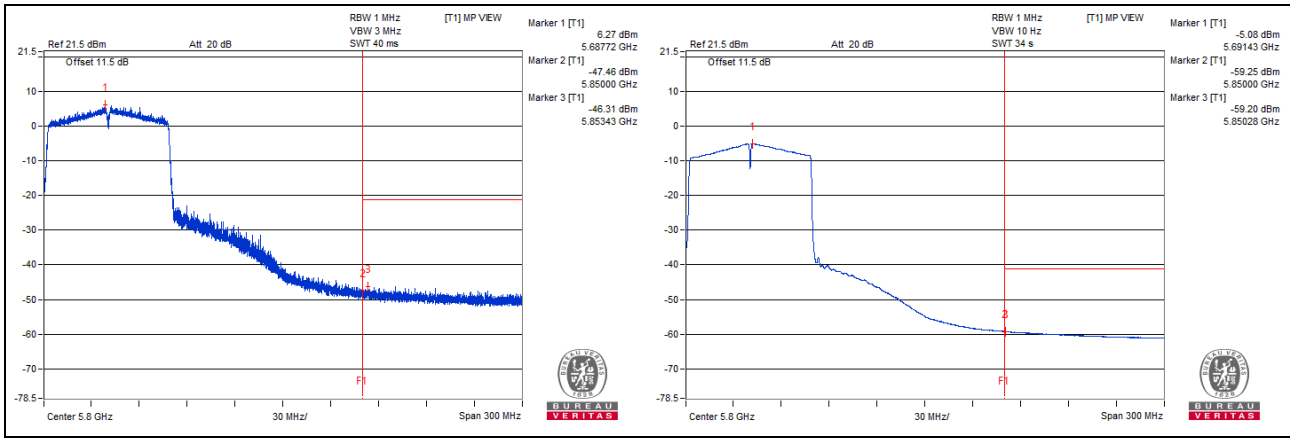
Note :
1. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8
   d = measurement distance in 3 meters.
2. * : Fundamental frequency, the limit was restricted at the output power.
3. # : Non-restricted frequency, no limit for average emission.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
4.15 dBm
5.67656 GHz
Marker 2 [T1]
-46.09 dBm
3.05468 GHz
Marker 3 [T1]
-46.98 dBm
7.39843 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-44.08 dBm
21.68656 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.67 dBm
39.71312 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
-4.82 dBm
5.69218 GHz
Marker 2 [T1]
-68.30 dBm
3.11562 GHz
Marker 3 [T1]
-62.68 dBm
5.85000 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.13 dBm
21.63193 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.87 dBm
39.73187 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5853.43 PK	52.78	68.2	-15.42	-46.31	3.83	-42.48

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



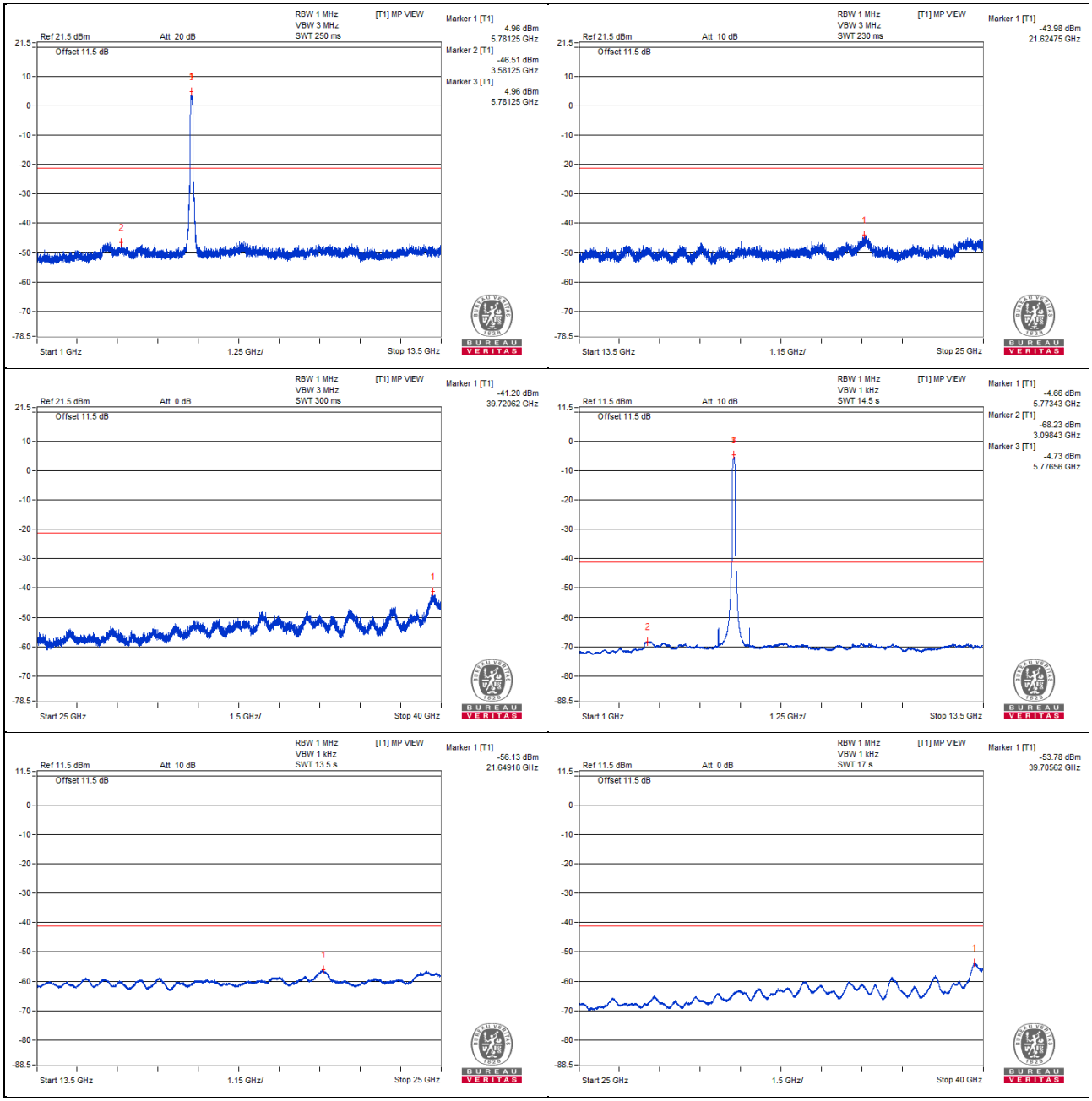
802.11ac (VHT80) – Channel 155

Conducted spurious emission table

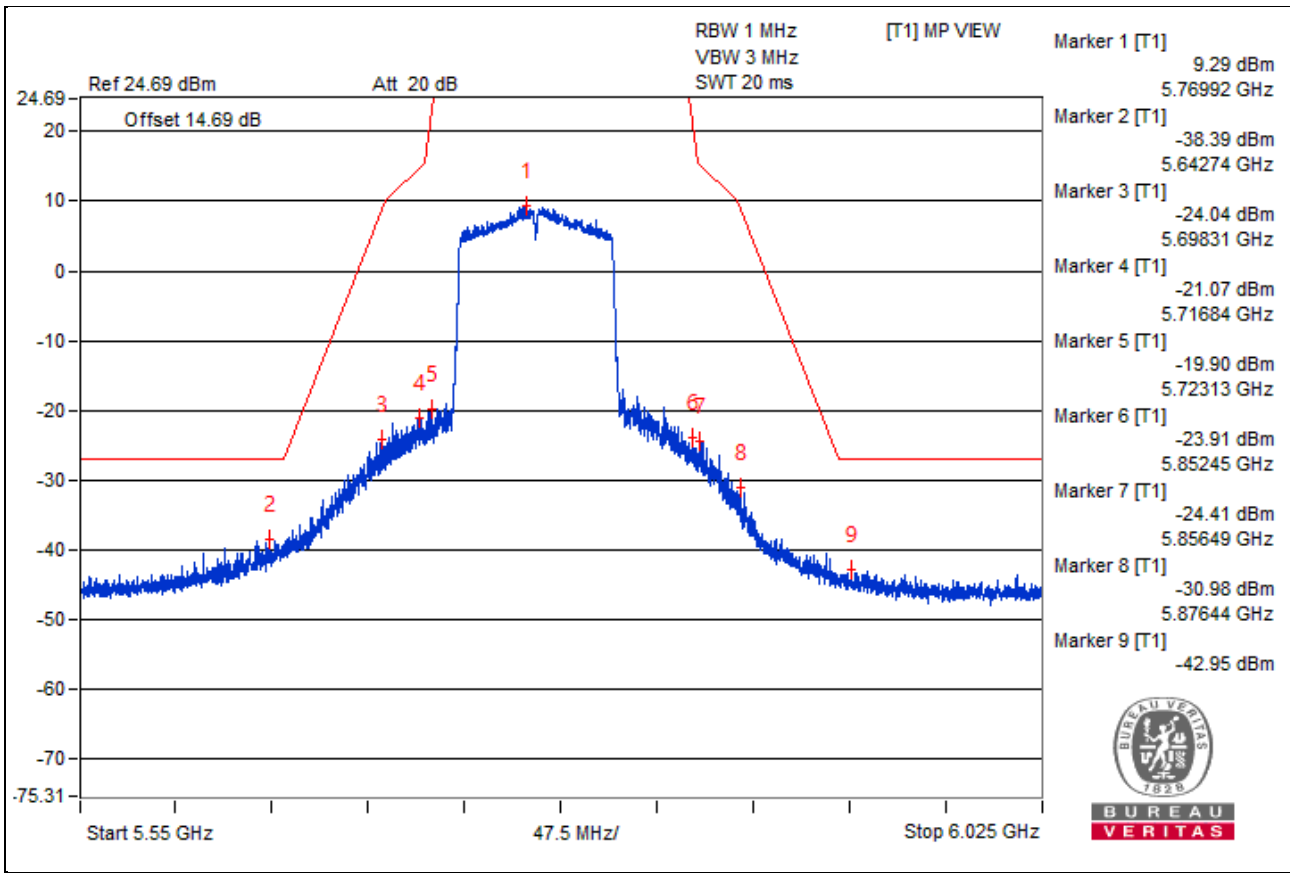
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)	Correction Factor (dB)	EIRP Level (dBm)
1	5781.25 PK	104.05	*		4.96	3.83	8.79
2	3581.25 PK	52.58	74	-21.42	-46.51	3.83	-42.68
3	5781.25 PK	104.05	*		4.96	3.83	8.79
4	21624.75 PK	55.11	68.2	-13.09	-43.98	3.83	-40.15
5	39720.62 PK	57.89	74	-16.11	-41.2	3.83	-37.37
6	5773.43 AV	94.43	*		-4.66	3.83	-0.83
7	3098.43 AV	30.86	#		-68.23	3.83	-64.4
8	5776.56 AV	94.36	*		-4.73	3.83	-0.9
9	21649.18 AV	42.96	#		-56.13	3.83	-52.3
10	39705.62 AV	45.31	54	-8.69	-53.78	3.83	-49.95

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.


RBW 1 MHz
VBW 3 MHz
SWT 250 ms
[T1] MP VIEW
Marker 1 [T1]
4.96 dBm
5.78125 GHz
Marker 2 [T1]
-46.51 dBm
3.58125 GHz
Marker 3 [T1]
4.96 dBm
5.78125 GHz
Ref 21.5 dBm
Att 20 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 3 MHz
SWT 230 ms
[T1] MP VIEW
Marker 1 [T1]
-43.98 dBm
21.62475 GHz
Ref 21.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 3 MHz
SWT 300 ms
[T1] MP VIEW
Marker 1 [T1]
-41.20 dBm
39.72062 GHz
Ref 21.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz
RBW 1 MHz
VBW 1 kHz
SWT 14.5 s
[T1] MP VIEW
Marker 1 [T1]
-4.66 dBm
5.77343 GHz
Marker 2 [T1]
-68.23 dBm
3.09843 GHz
Marker 3 [T1]
-4.73 dBm
5.77656 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 1 GHz
1.25 GHz/
Stop 13.5 GHz
RBW 1 MHz
VBW 1 kHz
SWT 13.5 s
[T1] MP VIEW
Marker 1 [T1]
-56.13 dBm
21.64918 GHz
Ref 11.5 dBm
Att 10 dB
Offset 11.5 dB
Start 13.5 GHz
1.15 GHz/
Stop 25 GHz
RBW 1 MHz
VBW 1 kHz
SWT 17 s
[T1] MP VIEW
Marker 1 [T1]
-53.78 dBm
39.70562 GHz
Ref 11.5 dBm
Att 0 dB
Offset 11.5 dB
Start 25 GHz
1.5 GHz/
Stop 40 GHz

Bandedge table



Note:

1. The offset including attenuator (10dB), cable loss (1.5 dB) and antenna gain (3.19 dBi).
2. The test results were EIRP.

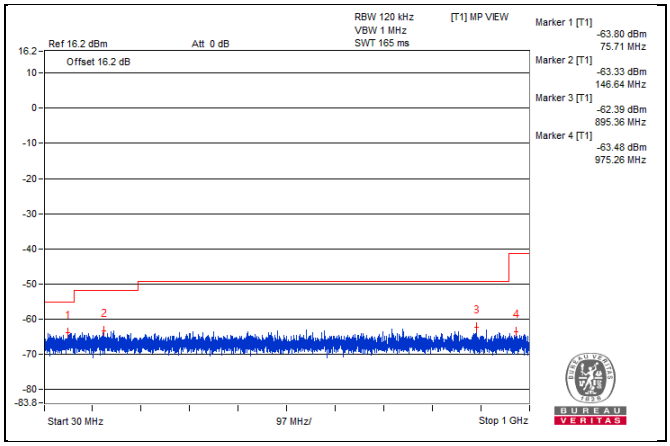
Below 1GHz Data

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	75.71	35.29	#		-63.8	3.83	-59.97
2	146.64	35.76	#		-63.33	3.83	-59.5
3	895.36	36.7	46	-9.3	-62.39	3.83	-58.56
4	975.26	35.61	54	-18.39	-63.48	3.83	-59.65

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.
3. The emission level was including the the appropriate maximum ground reflection factor 4.7 dB.

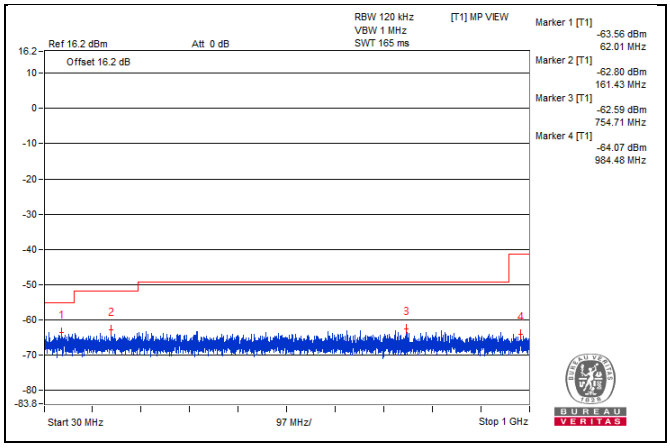


802.11a - Channel 64

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	62.01	35.53	#		-63.56	3.83	-59.73
2	161.43	36.29	#		-62.8	3.83	-58.97
3	754.71	36.5	#		-62.59	3.83	-58.76
4	984.48	35.02	54	-18.98	-64.07	3.83	-60.24

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.
3. The emission level was including the the appropriate maximum ground reflection factor 4.7 dB.

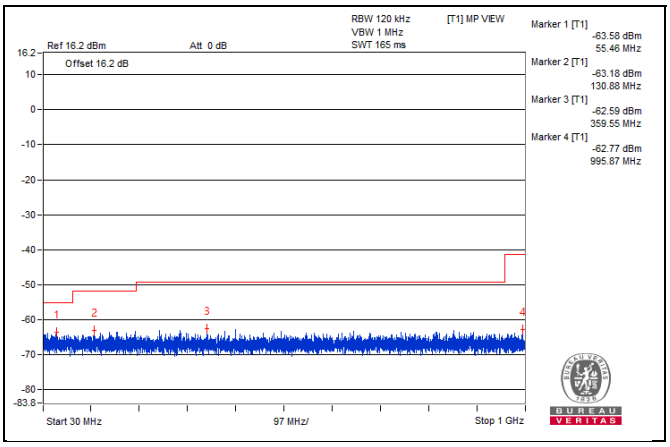


802.11a - Channel 140

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	55.46	35.51	#		-63.58	3.83	-59.75
2	130.88	35.91	43.5	-7.59	-63.18	3.83	-59.35
3	359.55	36.5	#		-62.59	3.83	-58.76
4	995.87	36.32	54	-17.68	-62.77	3.83	-58.94

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.
3. The emission level was including the the appropriate maximum ground reflection factor 4.7 dB.

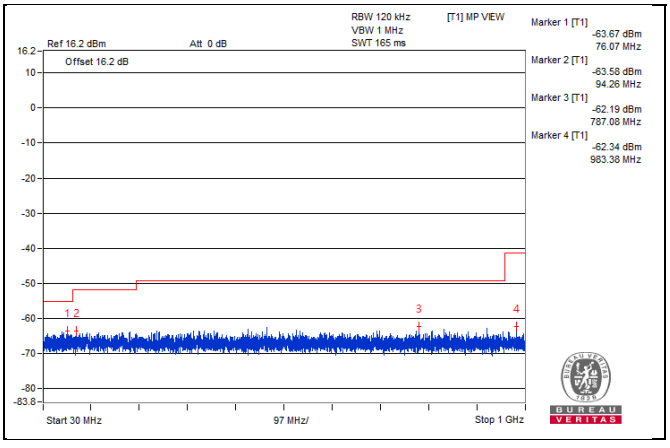


802.11a - Channel 149

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	76.07	35.42	#		-63.67	3.83	-59.84
2	94.26	35.51	#		-63.58	3.83	-59.75
3	787.08	36.9	#		-62.19	3.83	-58.36
4	983.38	36.75	54	-17.25	-62.34	3.83	-58.51

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.
3. The emission level was including the the appropriate maximum ground reflection factor 4.7 dB.



4.2 Transmit Power Measurement

4.2.1 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 ≦ 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,

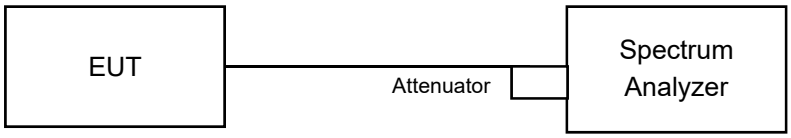
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

4.2.2 Test Setup

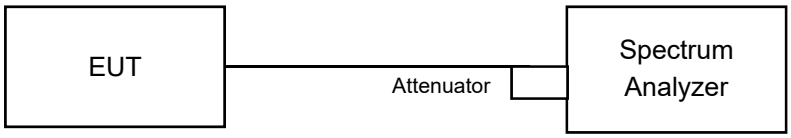
FOR POWER OUTPUT MEASUREMENT

For channel straddling 5725MHz:



For other channels:

FOR 26dB OCCUPIED BANDWIDTH



4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.2.4 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 ≥ 3 x RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. Set trigger to free run (duty cycle ≥ 98 percent)
7. Detector = RMS.
8. Trace average at least 100 traces in power averaging mode.
   In order to obtain results more easily, change max hold to view. It has no effect on the result
9. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

For other channels:

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

FOR 26dB OCCUPIED BANDWIDTH

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

4.2.5 Deviation from Test Standard

No deviation.

4.2.6 EUT Operating Condition

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

4.2.7 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	15.15	14.11	58.497	17.67	24.00	Pass
40	5200	15.07	14.33	59.239	17.73	24.00	Pass
48	5240	15.19	14.02	58.272	17.65	24.00	Pass
52	5260	15.65	14.02	61.963	17.92	24.00	Pass
60	5300	15.33	14.58	62.827	17.98	24.00	Pass
64	5320	15.22	14.16	59.327	17.73	24.00	Pass
100	5500	14.13	14.01	51.059	17.08	24.00	Pass
116	5580	14.48	14.02	53.289	17.27	24.00	Pass
140	5700	14.66	13.58	52.045	17.16	24.00	Pass
*144 (U-NII-2C Band)	5720	13.57	12.55	40.74	16.10	22.85	Pass
*144 (U-NII-3 Band)	5720	6.32	5.49	7.825	8.93	30.00	Pass
149	5745	15.13	14.16	58.645	17.68	30.00	Pass
157	5785	14.99	14.13	57.432	17.59	30.00	Pass
165	5825	14.55	14.06	53.978	17.32	30.00	Pass

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

1. For U-NII-1: The directional gain = 10 log[($10^{G0/10}$ + $10^{G1/10}$) / 2] = 3.43 dBi < 6 dBi, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = 10 log[($10^{G0/10}$ + $10^{G1/10}$) / 2] = 3.29 dBi < 6 dBi, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = 10 log[($10^{G0/10}$ + $10^{G1/10}$) / 2] = 3.34 dBi < 6 dBi, so the power limit shall not be reduced.
4. For U-NII-3: The directional gain = 10 log[($10^{G0/10}$ + $10^{G1/10}$) / 2] = 2.66 dBi < 6 dBi, so the power limit shall not be reduced.

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

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
				Chain 0	Chain 1		
144	5720	48.565	16.86	15.15	14.05	58.144	17.65

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

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

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	14.33	15.20	60.215	17.80	24.00	Pass
46	5230	14.26	14.98	58.146	17.65	24.00	Pass
54	5270	14.02	14.96	56.568	17.53	24.00	Pass
62	5310	15.07	15.14	64.795	18.12	24.00	Pass
102	5510	13.03	12.66	38.541	15.86	24.00	Pass
110	5550	14.11	14.05	51.173	17.09	24.00	Pass
134	5670	15.00	14.02	56.858	17.55	24.00	Pass
*142 (U-NII-2C Band)	5710	14.33	13.22	48.091	16.82	24.00	Pass
*142 (U-NII-3 Band)	5710	2.35	1.20	3.036	4.82	30.00	Pass
151	5755	15.12	14.04	57.86	17.62	30.00	Pass
159	5795	15.24	14.28	60.211	17.80	30.00	Pass

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

1. For U-NII-1: The directional gain = 10 log[($10^{G0/10}$ + $10^{G1/10}$) / 2] = 3.43 dBi < 6 dBi, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = 10 log[($10^{G0/10}$ + $10^{G1/10}$) / 2] = 3.29 dBi < 6 dBi, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = 10 log[($10^{G0/10}$ + $10^{G1/10}$) / 2] = 3.34 dBi < 6 dBi, so the power limit shall not be reduced.
4. For U-NII-3: The directional gain = 10 log[($10^{G0/10}$ + $10^{G1/10}$) / 2] = 2.66 dBi < 6 dBi, so the power limit shall not be reduced.

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

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
				Chain 0	Chain 1		
142	5710	51.127	17.09	15.22	14.18	59.448	17.74

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

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	42.2	27.25 > 24
62	5310	42.21	27.25 > 24
102	5510	42.13	27.24 > 24
110	5550	41.87	27.21 > 24
134	5670	42.18	27.25 > 24
142 (U-NII-2C Band)	5710	36.1	26.57 > 24

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	12.66	13.10	38.868	15.90	24.00	Pass
58	5290	14.74	14.54	58.23	17.65	24.00	Pass
106	5530	12.86	11.33	32.903	15.17	24.00	Pass
122	5610	14.48	14.02	53.289	17.27	24.00	Pass
*138 (U-NII-2C Band)	5690	14.27	13.01	46.729	16.70	24.00	Pass
*138 (U-NII-3 Band)	5690	-0.80	-1.86	1.4834	1.71	30.00	Pass
155	5775	14.92	14.05	56.455	17.52	30.00	Pass

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

1. For U-NII-1: The directional gain = 10 log[($10^{G0/10}$ + $10^{G1/10}$) / 2] = 3.43 dBi < 6 dBi, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = 10 log[($10^{G0/10}$ + $10^{G1/10}$) / 2] = 3.29 dBi < 6 dBi, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = 10 log[($10^{G0/10}$ + $10^{G1/10}$) / 2] = 3.34 dBi < 6 dBi, so the power limit shall not be reduced.
4. For U-NII-3: The directional gain = 10 log[($10^{G0/10}$ + $10^{G1/10}$) / 2] = 2.66 dBi < 6 dBi, so the power limit shall not be reduced.

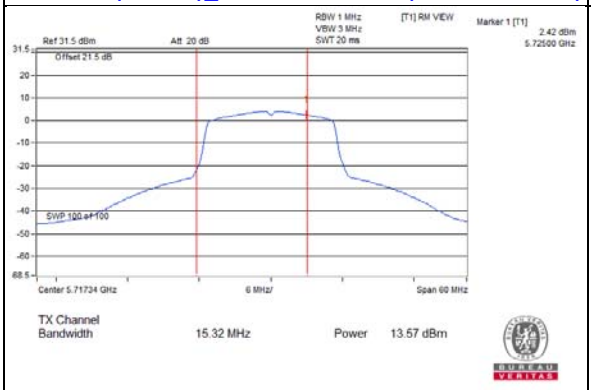
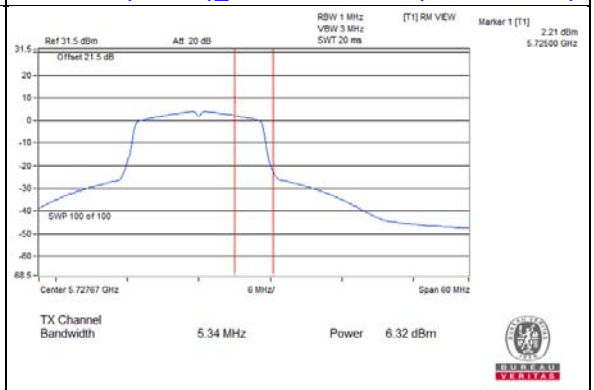
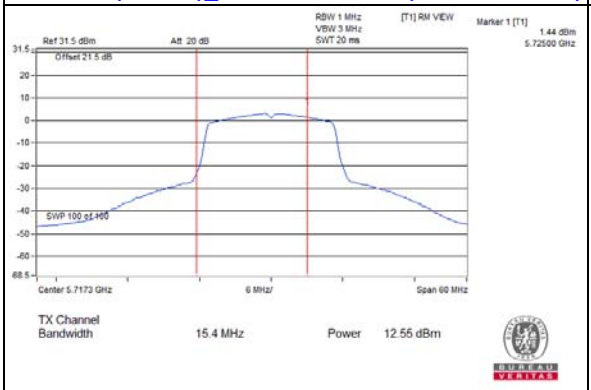
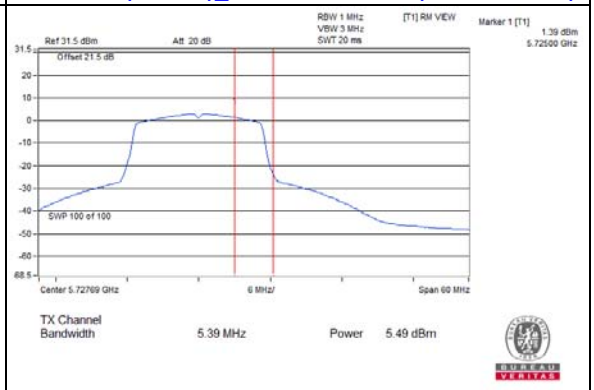
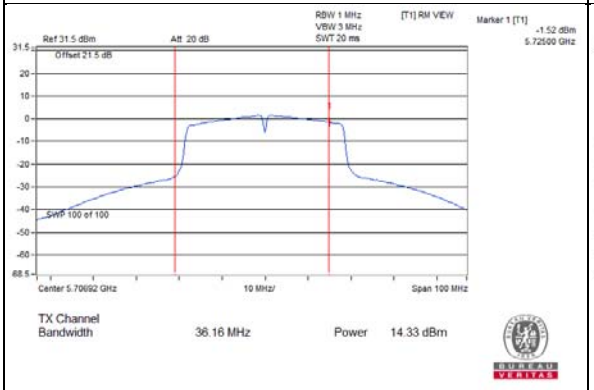
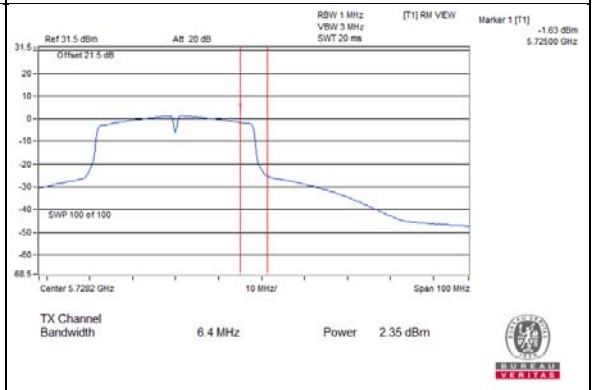
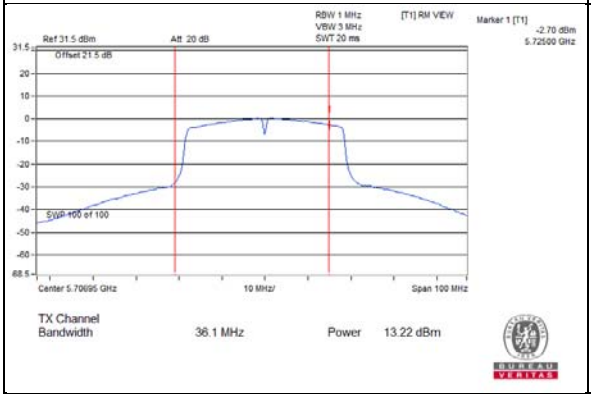
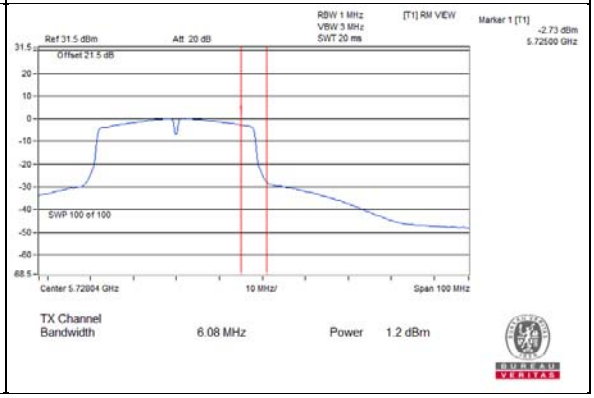
The Total Power for the straddle channel and power meter value for reference only:

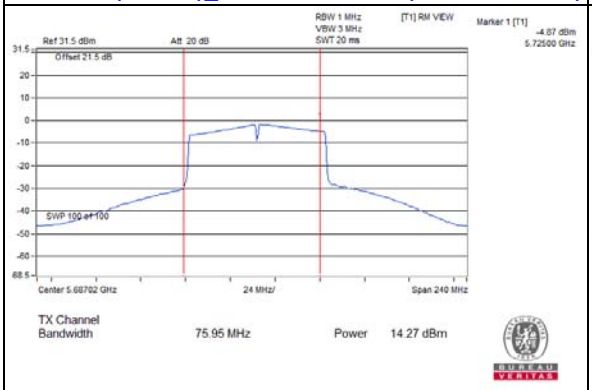
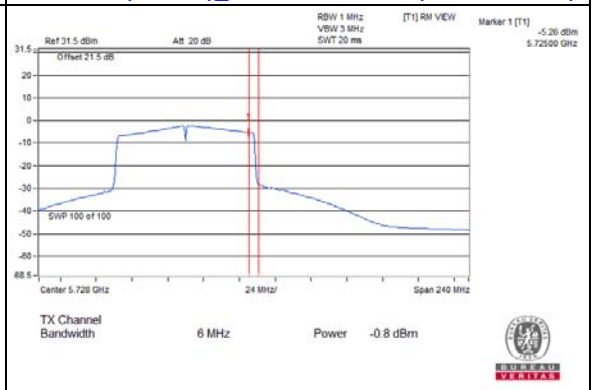
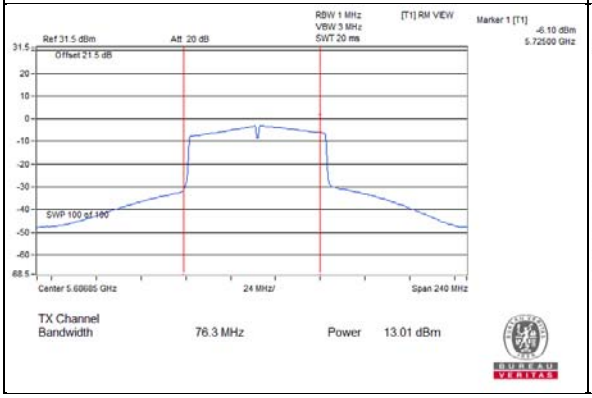
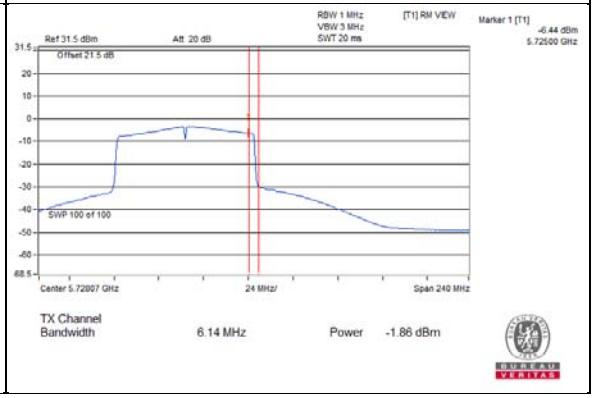
Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
				Chain 0	Chain 1		
138	5690	48.2124	16.83	14.98	14.09	57.122	17.57

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

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

For channel straddling 5725MHz of Power

Spectrum Plot Value of Power	
802.11ac (VHT20)_Chain 0 / CH144 (U-NII-2C Band)	**802.11ac (VHT20)_Chain 0 / CH144 (U-NII-3 Band)**
	
802.11ac (VHT20)_Chain 1 / CH144 (U-NII-2C Band)	**802.11ac (VHT20)_Chain 1 / CH144 (U-NII-3 Band)**
	
802.11ac (VHT40)_Chain 0 / CH142 (U-NII-2C Band)	**802.11ac (VHT40)_Chain 0 / CH142 (U-NII-3 Band)**
	
802.11ac (VHT40)_Chain 1 / CH142 (U-NII-2C Band)	**802.11ac (VHT40)_Chain 1 / CH142 (U-NII-3 Band)**
	

Spectrum Plot Value of Power	
802.11ac (VHT80)_Chain 0 / CH138 (U-NII-2C Band)	**802.11ac (VHT80)_Chain 0 / CH138 (U-NII-3 Band)**
	
802.11ac (VHT80)_Chain 1 / CH138 (U-NII-2C Band)	**802.11ac (VHT80)_Chain 1 / CH138 (U-NII-3 Band)**
	

26dB OCCUPIED BANDWIDTH

802.11ac (VHT20)

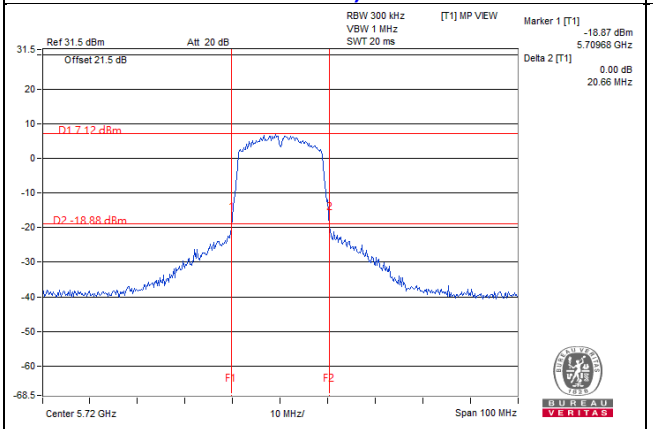
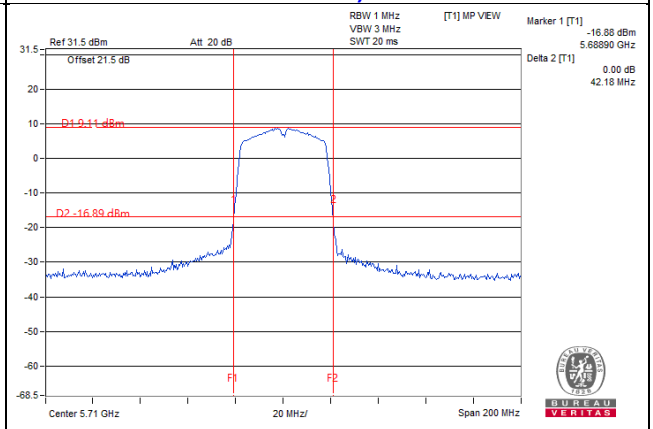
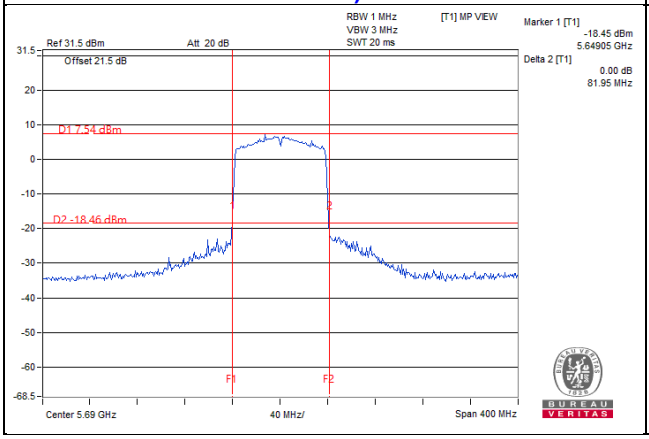
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.73	21.07
60	5300	20.77	20.97
64	5320	20.75	20.93
100	5500	20.83	20.75
116	5580	20.8	20.84
140	5700	20.81	20.76
144 (U-NII-2C Band)	5720	15.32	15.4

802.11ac (VHT40)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	42.2	42.46
62	5310	42.21	42.79
102	5510	42.18	42.13
110	5550	41.89	41.87
134	5670	42.26	42.18
142 (U-NII-2C Band)	5710	36.16	36.1

802.11ac (VHT80)

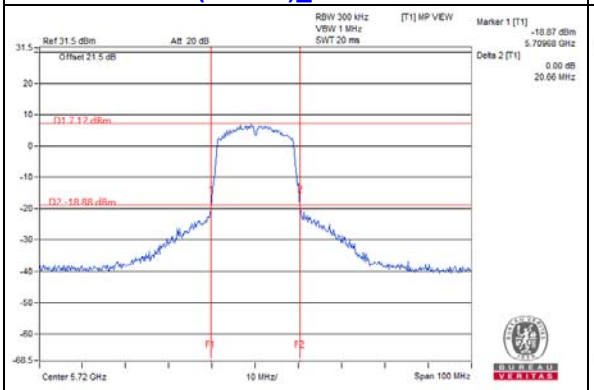
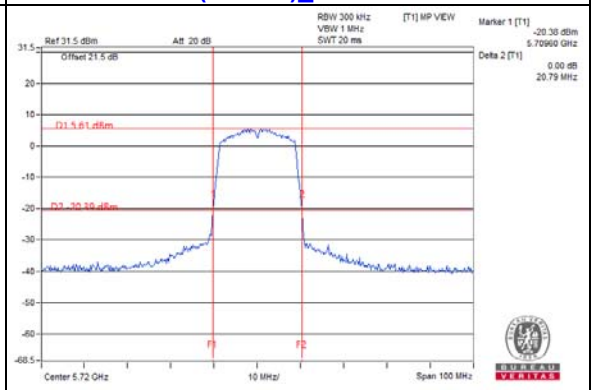
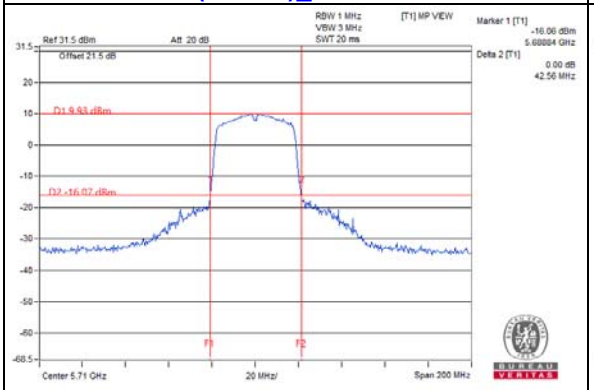
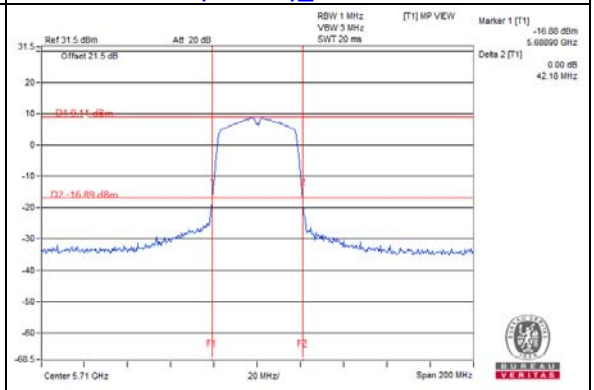
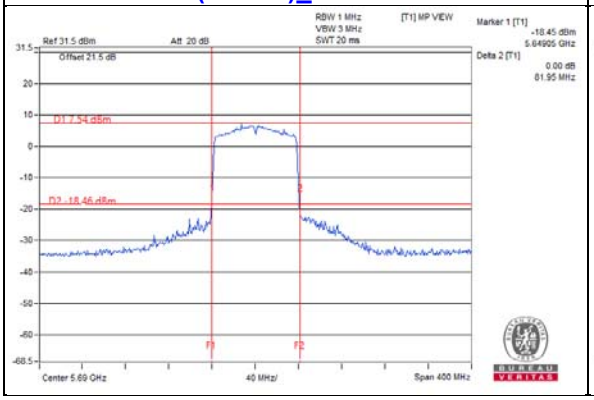
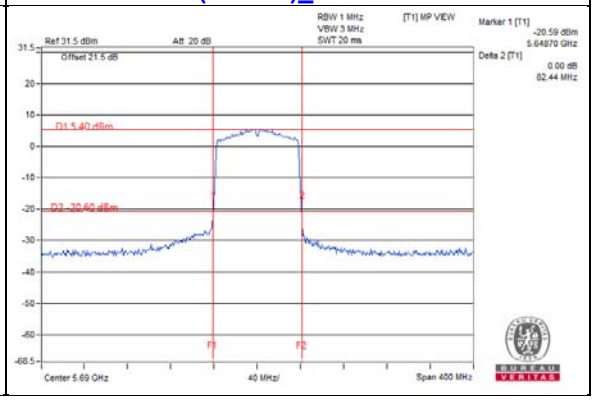
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	82.18	82.67
106	5530	82.32	82.41
122	5610	82.38	82.23
138 (U-NII-2C Band)	5690	75.95	76.3

Spectrum Plot of Worst Value	
802.11ac (VHT20)_Chain 0 / CH144 (U-NII-2C Band)	**802.11ac (VHT40)_Chain 1 / CH142 (U-NII-2C Band)**
	
802.11ac (VHT80)_Chain 0 / CH138 (U-NII-2C Band)	
	

Note:

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

For channel straddling 5725MHz of 26dB BW

Spectrum Plot Value of 26dB BW	
802.11ac (VHT20)_Chain 0 / CH144	**802.11ac (VHT20)_Chain 1 / CH144**
	
802.11ac (VHT40)_Chain 0 / CH142	**802.11ac (VHT40)_Chain 1 / CH142**
	
802.11ac (VHT80)_Chain 0 / CH138	**802.11ac (VHT80)_Chain 1 / CH138**
	

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

4.2.8 Test Results (Mode 2)

POWER OUTPUT

802.11a

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
36	5180	42.17	16.25	24.00	Pass
40	5200	42.462	16.28	24.00	Pass
48	5240	40.551	16.08	24.00	Pass
52	5260	41.591	16.19	24.00	Pass
60	5300	42.17	16.25	24.00	Pass
64	5320	42.462	16.28	24.00	Pass
100	5500	42.073	16.24	24.00	Pass
116	5580	41.4	16.17	24.00	Pass
140	5700	43.351	16.37	24.00	Pass
*144 (U-NII-2C Band)	5720	30.339	14.82	22.83	Pass
*144 (U-NII-3 Band)	5720	5.14	7.11	30.00	Pass
149	5745	42.56	16.29	30.00	Pass
157	5785	42.364	16.27	30.00	Pass
165	5825	41.495	16.18	30.00	Pass

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

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

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (mW)	Average Power (dBm)
144	5720	35.479	15.50	41.879	16.22

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	20.52	24.12 > 24
64	5320	20.54	24.12 > 24
100	5500	20.58	24.13 > 24
116	5580	20.54	24.12 > 24
140	5700	20.69	24.15 > 24
144 (U-NII-2C Band)	5720	15.26	22.83 < 24

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
36	5180	40.087	16.03	24.00	Pass
40	5200	40.551	16.08	24.00	Pass
48	5240	40.832	16.11	24.00	Pass
52	5260	42.855	16.32	24.00	Pass
60	5300	42.462	16.28	24.00	Pass
64	5320	42.658	16.30	24.00	Pass
100	5500	43.853	16.42	24.00	Pass
116	5580	41.21	16.15	24.00	Pass
140	5700	40.926	16.12	24.00	Pass
*144 (U-NII-2C Band)	5720	32.509	15.12	23.21	Pass
*144 (U-NII-3 Band)	5720	6.252	7.96	30.00	Pass
149	5745	39.994	16.02	30.00	Pass
157	5785	41.305	16.16	30.00	Pass
165	5825	40.832	16.11	30.00	Pass

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

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

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (mW)	Average Power (dBm)
144	5720	38.761	15.88	41.879	16.22

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	20.74	24.16 > 24
60	5300	20.81	24.18 > 24
64	5320	20.72	24.16 > 24
100	5500	20.84	24.18 > 24
116	5580	20.75	24.17 > 24
140	5700	20.84	24.18 > 24
144 (U-NII-2C Band)	5720	16.66	23.21 < 24

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
38	5190	40.551	16.08	24.00	Pass
46	5230	40.272	16.05	24.00	Pass
54	5270	41.495	16.18	24.00	Pass
62	5310	42.462	16.28	24.00	Pass
102	5510	35.075	15.45	24.00	Pass
110	5550	42.756	16.31	24.00	Pass
134	5670	40.832	16.11	24.00	Pass
*142 (U-NII-2C Band)	5710	34.435	15.37	24.00	Pass
*142 (U-NII-3 Band)	5710	2.163	3.35	30.00	Pass
151	5755	41.115	16.14	30.00	Pass
159	5795	40.179	16.04	30.00	Pass

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

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

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (mW)	Average Power (dBm)
142	5710	36.598	15.63	41.305	16.16

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

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

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
42	5210	31.769	15.02	24.00	Pass
58	5290	42.954	16.33	24.00	Pass
106	5530	35.975	15.56	24.00	Pass
122	5610	42.267	16.26	24.00	Pass
*138 (U-NII-2C Band)	5690	35.318	15.48	24.00	Pass
*138 (U-NII-3 Band)	5690	1.089	0.37	30.00	Pass
155	5775	42.17	16.25	30.00	Pass

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

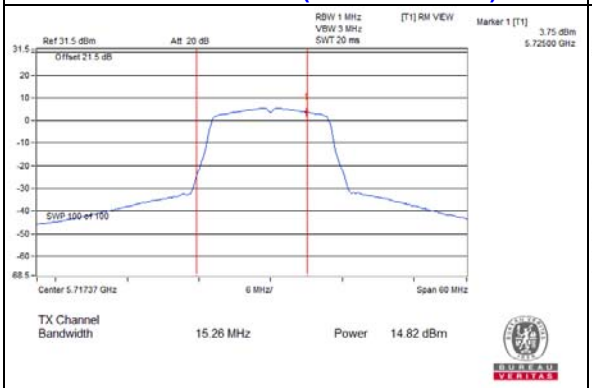
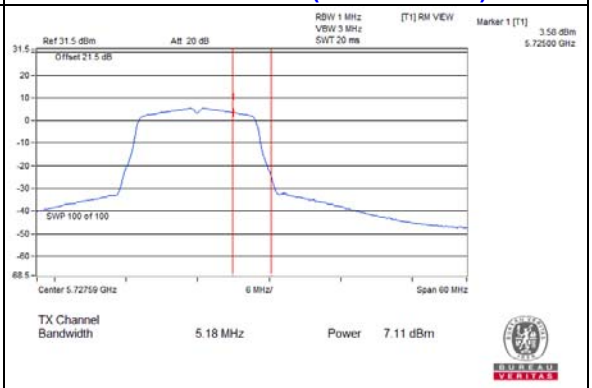
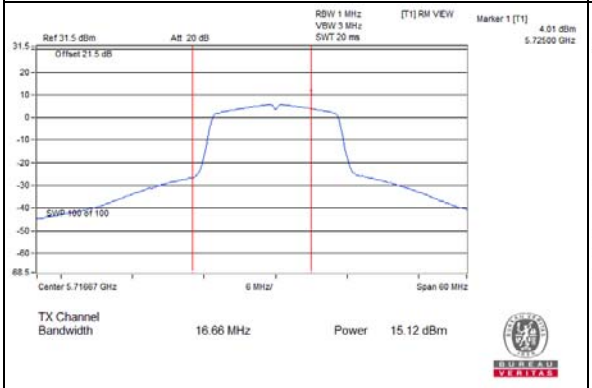
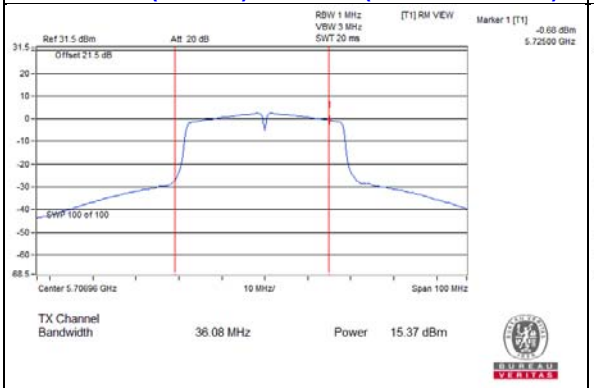
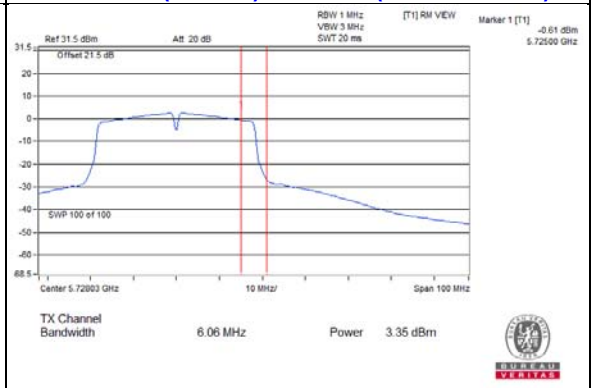
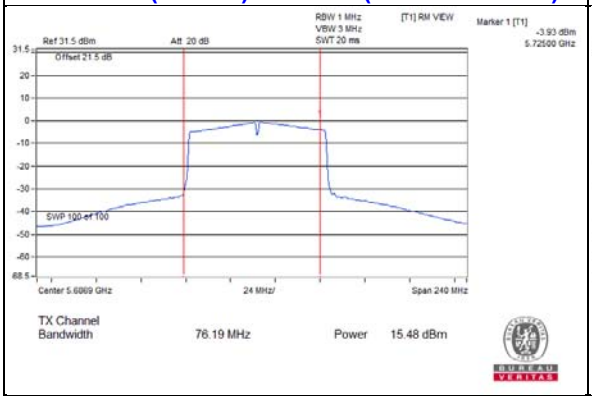
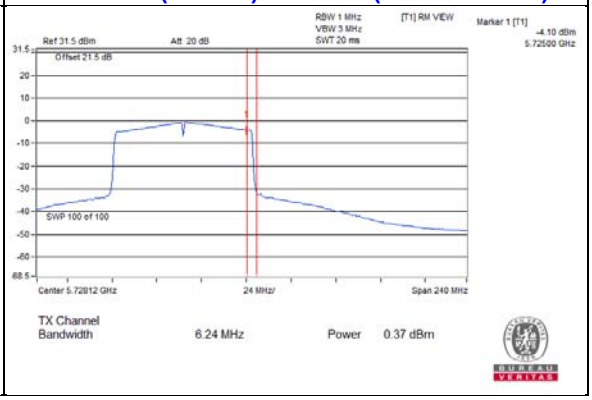
The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (mW)	Average Power (dBm)
138	5690	36.407	15.61	40.087	16.03

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)
58	5290	82.48	30.16 > 24
106	5530	82.44	30.16 > 24
122	5610	82.21	30.14 > 24
138 (U-NII-2C Band)	5690	76.19	29.81 > 24

For channel straddling 5725MHz of Power

Spectrum Plot Value of Power	
802.11a / CH144 (U-NII-2C Band)	**802.11a / CH144 (U-NII-3 Band)**
 TX Channel Bandwidth 15.26 MHz Power 14.82 dBm	 TX Channel Bandwidth 5.18 MHz Power 7.11 dBm
802.11ac (VHT20) / CH144 (U-NII-2C Band)	**802.11ac (VHT20) / CH144 (U-NII-3 Band)**
 TX Channel Bandwidth 16.66 MHz Power 15.12 dBm	 TX Channel Bandwidth 8.04 MHz Power 7.96 dBm
802.11ac (VHT40) / CH142 (U-NII-2C Band)	**802.11ac (VHT40) / CH142 (U-NII-3 Band)**
 TX Channel Bandwidth 36.08 MHz Power 15.37 dBm	 TX Channel Bandwidth 6.06 MHz Power 3.35 dBm
802.11ac (VHT80) / CH138 (U-NII-2C Band)	**802.11ac (VHT80) / CH138 (U-NII-3 Band)**
 TX Channel Bandwidth 76.19 MHz Power 15.48 dBm	 TX Channel Bandwidth 6.24 MHz Power 0.37 dBm

26dB OCCUPIED BANDWIDTH

802.11a

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

802.11ac (VHT20)

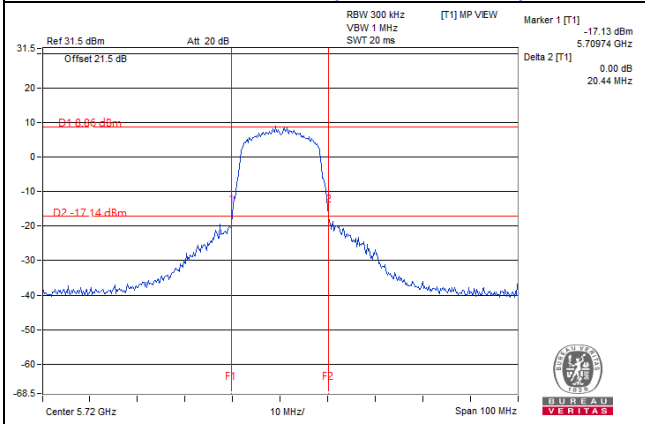
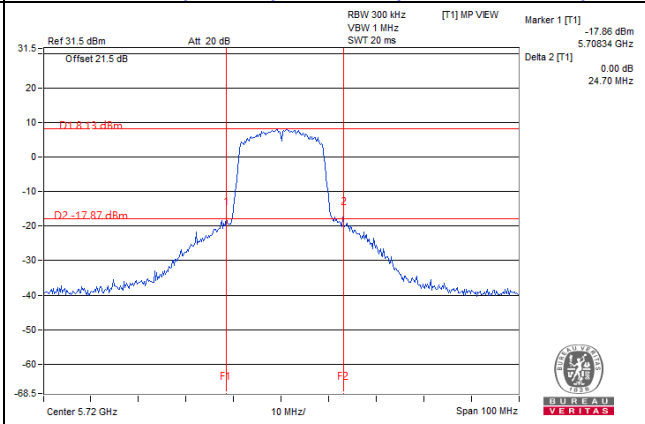
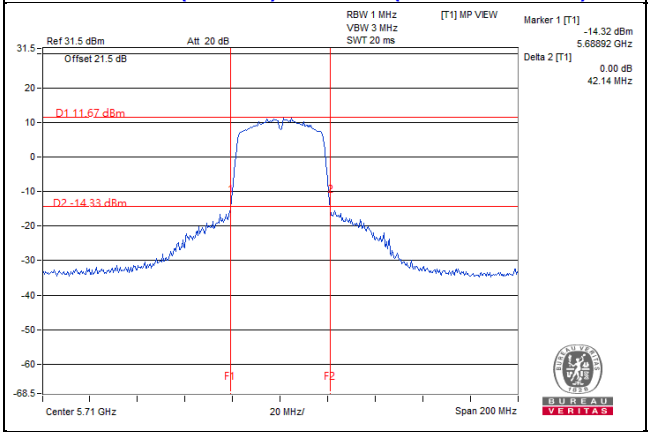
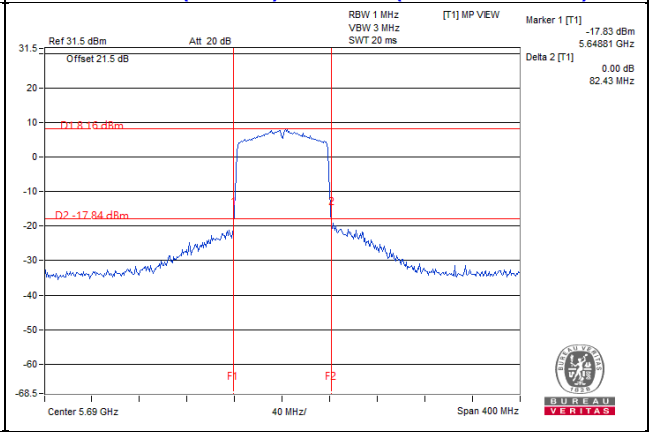
Channel	Frequency (MHz)	26dB Bandwidth (MHz)
52	5260	20.74
60	5300	20.81
64	5320	20.72
100	5500	20.84
116	5580	20.75
140	5700	20.84
144 (U-NII-2C Band)	5720	16.66

802.11ac (VHT40)

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

802.11ac (VHT80)

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

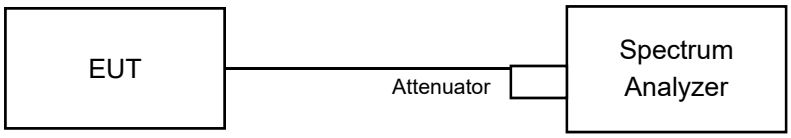
Spectrum Plot of Worst Value	
802.11a / CH144 (U-NII-2C Band)	**802.11ac (VHT20) / CH144 (U-NII-2C Band)**
	
802.11ac (VHT40) / CH142 (U-NII-2C Band)	**802.11ac (VHT80) / CH138 (U-NII-2C Band)**
	

Note:

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

4.3 Occupied Bandwidth Measurement

4.3.1 Test Setup



4.3.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.3 Test Procedure

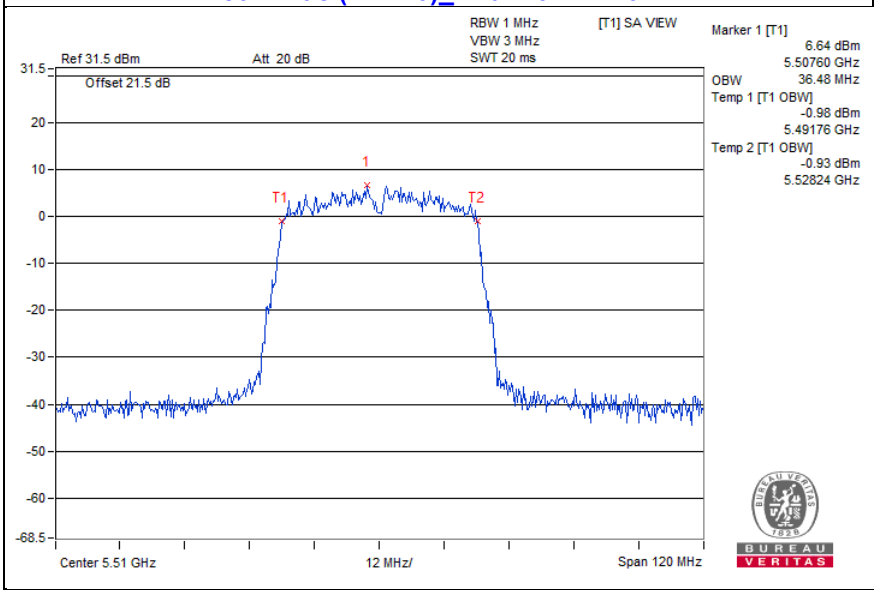
The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution 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.

4.3.4 Test Results (Mode 1)

802.11ac (VHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
102	5510	36.48	36.24

Spectrum Plot of Max. Value
802.11ac (VHT40)_Chain 0 / CH102

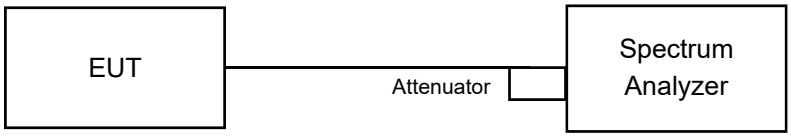


4.4 Peak Power Spectral Density Measurement

4.4.1 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

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedure

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

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Condition

Same as Item 4.3.6.

4.4.7 Test Results (Mode 1)

802.11ac (VHT40)

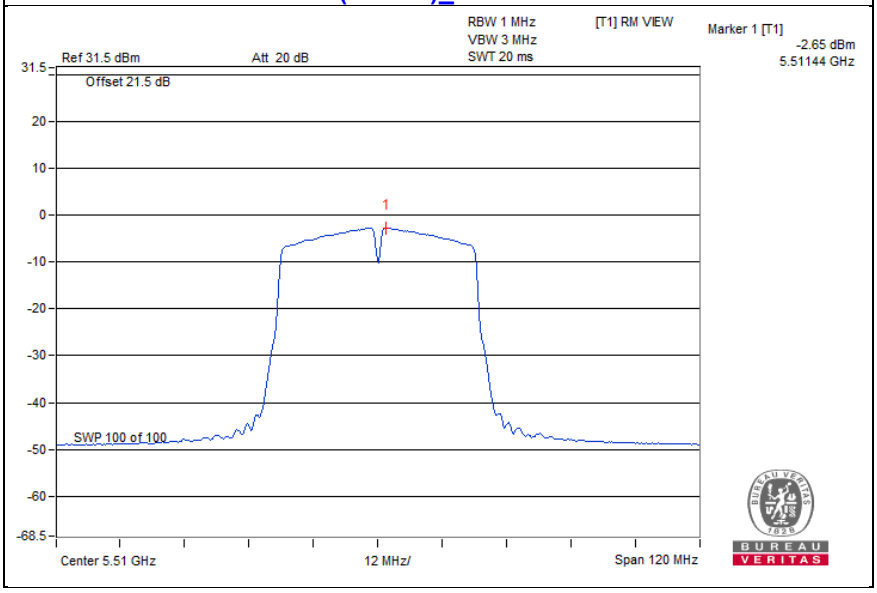
Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
102	5510	-2.67	-3.28	0.05	11.00	Pass

Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. The directional gain = 10 log[($10^{G0/10}$ + $10^{G1/10}$) / 2] = 3.34 dBi < 6 dBi, so the power density limit shall not be reduced.

Spectrum Plot of Worst Value

802.11ac (VHT40)_Chain 0 / CH102



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:

Lin Kou EMC/RF Lab
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab
Tel: 886-3-6668565
Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab
Tel: 886-3-3183232
Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

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

--- END ---