



A D T

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)
					Chain0	Chain1		
1	3546.875 PK	57.22	74	-16.78	-47.36	-46.93	6.09	-38.04
2	3546.875 AV	42.56	54	-11.44	-69.41	-59.18	6.09	-52.7
3	7093.75 PK	56.43	74	-17.57	-46.93	-49.23	6.09	-38.83
4	7093.75 AV	47.2	54	-6.8	-55.18	-60.92	6.09	-48.06
5	10643.75 PK	56.71	74	-17.29	-49.03	-46.61	6.09	-38.55
6	10643.75 AV	41.31	54	-12.69	-65.53	-61.48	6.09	-53.95
7	15963.875 PK	54.6	74	-19.4	-49.69	-49.83	6.09	-40.66
8	15955.25 AV	42.89	54	-11.11	-61.56	-61.38	6.09	-52.37

Note :

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

d = measurement distance in 3 meters.



A D T

Chain (0)





A D T

Chain (1)



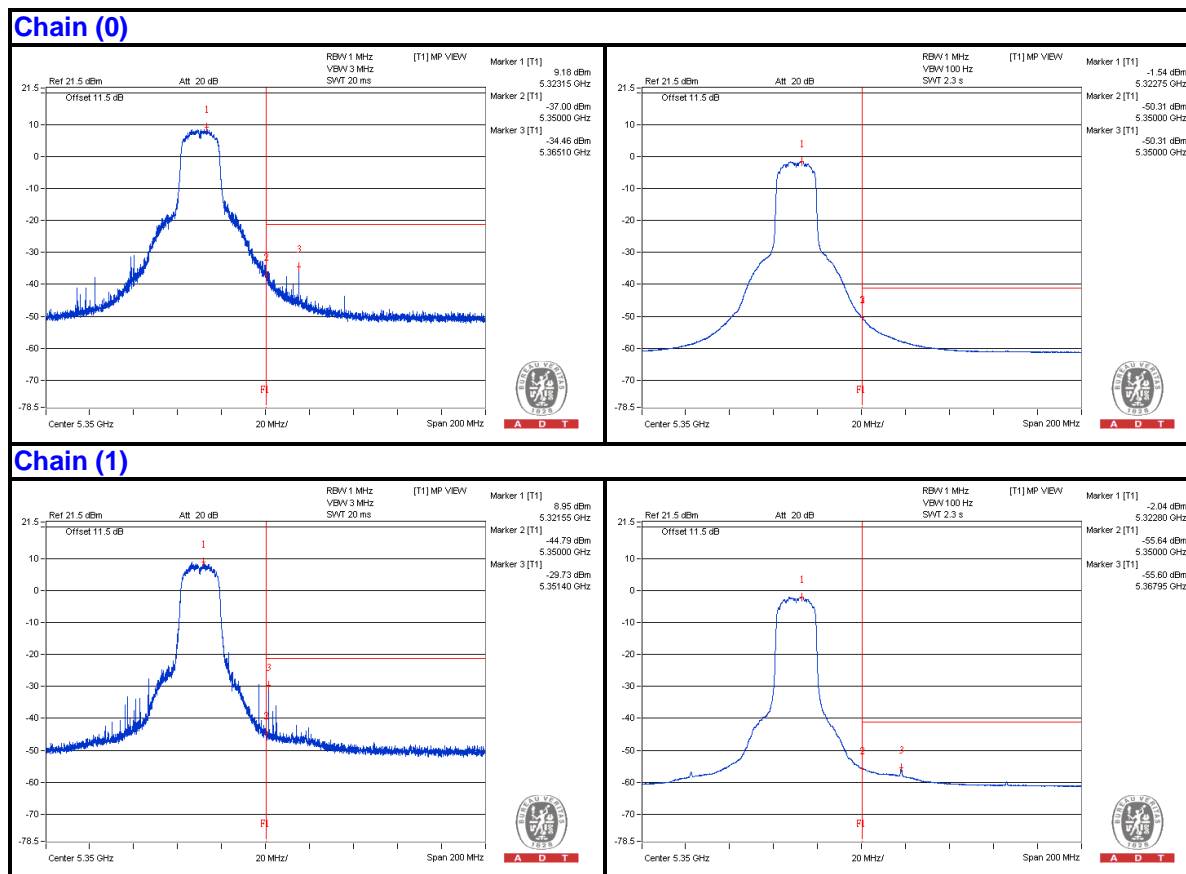
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5351.4 PK	72.23	74	-1.77	-37.92	-29.73	6.09	-23.03
2	5350 AV	52.16	54	-1.84	-50.31	-55.64	6.09	-43.1

Note :

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

d = measurement distance in 3 meters.





A D T

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)
					Chain0	Chain1		
1	3665.625 PK	58.8	74	-15.2	-48.44	-46.3	7.77	-36.46
2	3665.625 AV	51.41	54	-2.59	-65.49	-51.8	7.77	-43.85
3	7334.375 PK	59.69	74	-14.31	-45.31	-47.71	7.77	-35.57
4	7334.375 AV	51.15	54	-2.85	-52.06	-65.84	7.77	-44.11
5	11006.25 PK	57.33	74	-16.67	-47.27	-50.87	7.77	-37.93
6	11003.125 AV	42.08	54	-11.92	-65.04	-63.09	7.77	-53.18
7	16498.625 PK	57.34	74	-16.66	-48.52	-48.89	7.77	-37.92
8	16495.75 AV	45.75	54	-8.25	-59.91	-60.71	7.77	-49.51

Note :

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

d = measurement distance in 3 meters.



A D T

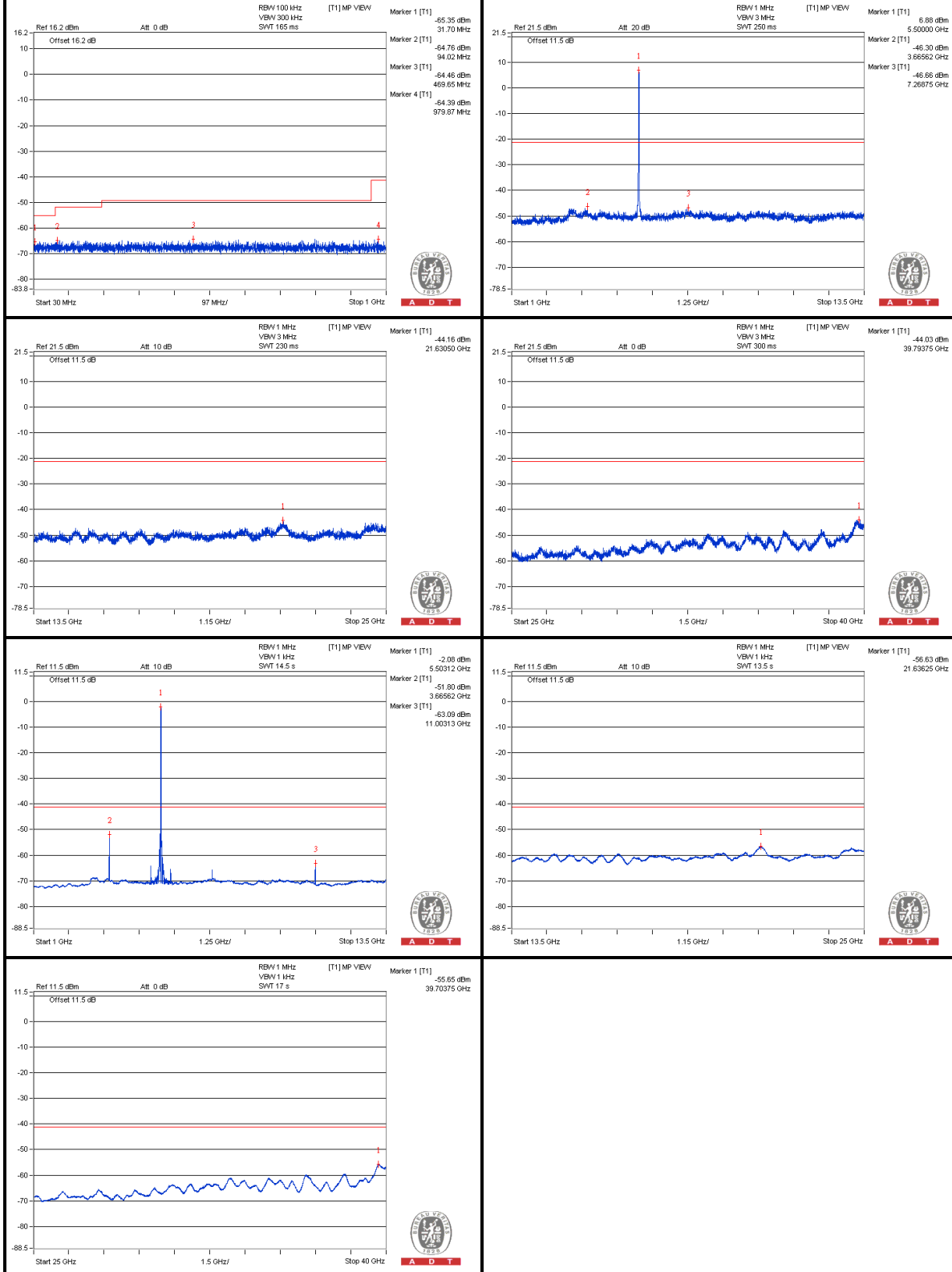
Chain (0)





A D T

Chain (1)

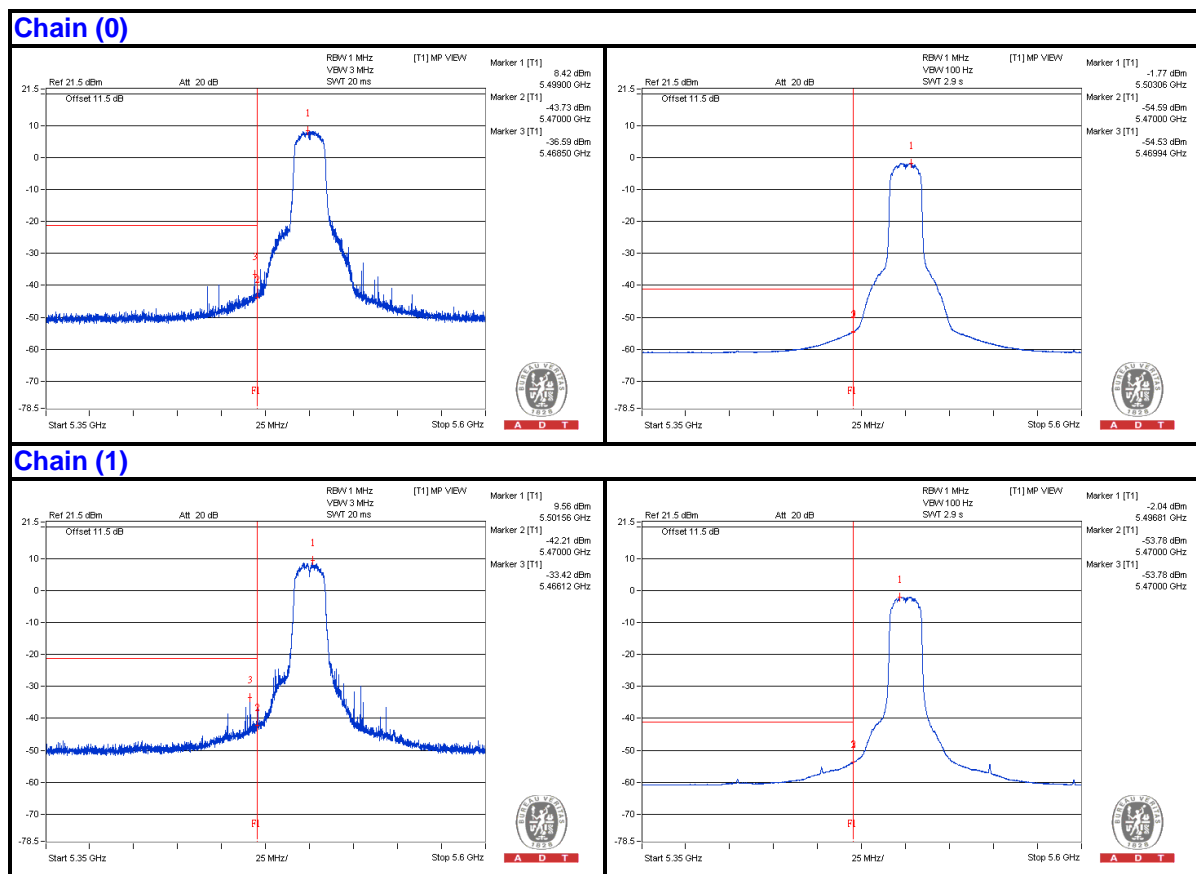


Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5466.125 PK	69.89	74	-4.11	-45.2	-33.42	7.77	-25.37
2	5469.9375 AV	51.89	54	-2.11	-54.53	-53.8	7.77	-43.37

Note :

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





A D T

802.11ac (VHT20) - Channel 120

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3731.25 PK	58.95	74	-15.05	-47.81	-46.48	7.77	-36.31
2	3731.25 AV	50.36	54	-3.64	-64.89	-52.94	7.77	-44.9
3	7465.625 PK	57.42	74	-16.58	-47.97	-49.39	7.77	-37.84
4	7465.625 AV	47.57	54	-6.43	-56.36	-62.73	7.77	-47.69
5	11209.375 PK	57.04	74	-16.96	-50.01	-48.18	7.77	-38.22
6	11203.125 AV	41.21	54	-12.79	-66.34	-63.71	7.77	-54.05
7	16809.125 PK	56.05	74	-17.95	-50.03	-49.95	7.77	-39.21
8	16806.25 AV	45.01	54	-8.99	-61.28	-60.79	7.77	-50.25

Note :

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



A D T

Chain (0)





A D T

Chain (1)





A D T

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)
					Chain0	Chain1		
1	3800 PK	57.22	74	-16.78	-48.95	-48.69	7.77	-38.04
2	3800 AV	47.62	54	-6.38	-66.91	-55.73	7.77	-47.64
3	7606.25 PK	57.23	74	-16.77	-47.67	-50.35	7.77	-38.03
4	7600 AV	47.34	54	-6.66	-56.09	-66.27	7.77	-47.92
5	11403.125 PK	56.62	74	-17.38	-49.59	-49.25	7.77	-38.64
6	11403.125 AV	39.51	54	-14.49	-67.25	-65.92	7.77	-55.75
7	17102.375 PK	56.45	74	-17.55	-49.44	-49.74	7.77	-38.81
8	17093.75 AV	45.48	54	-8.52	-60.29	-60.85	7.77	-49.78

Note :

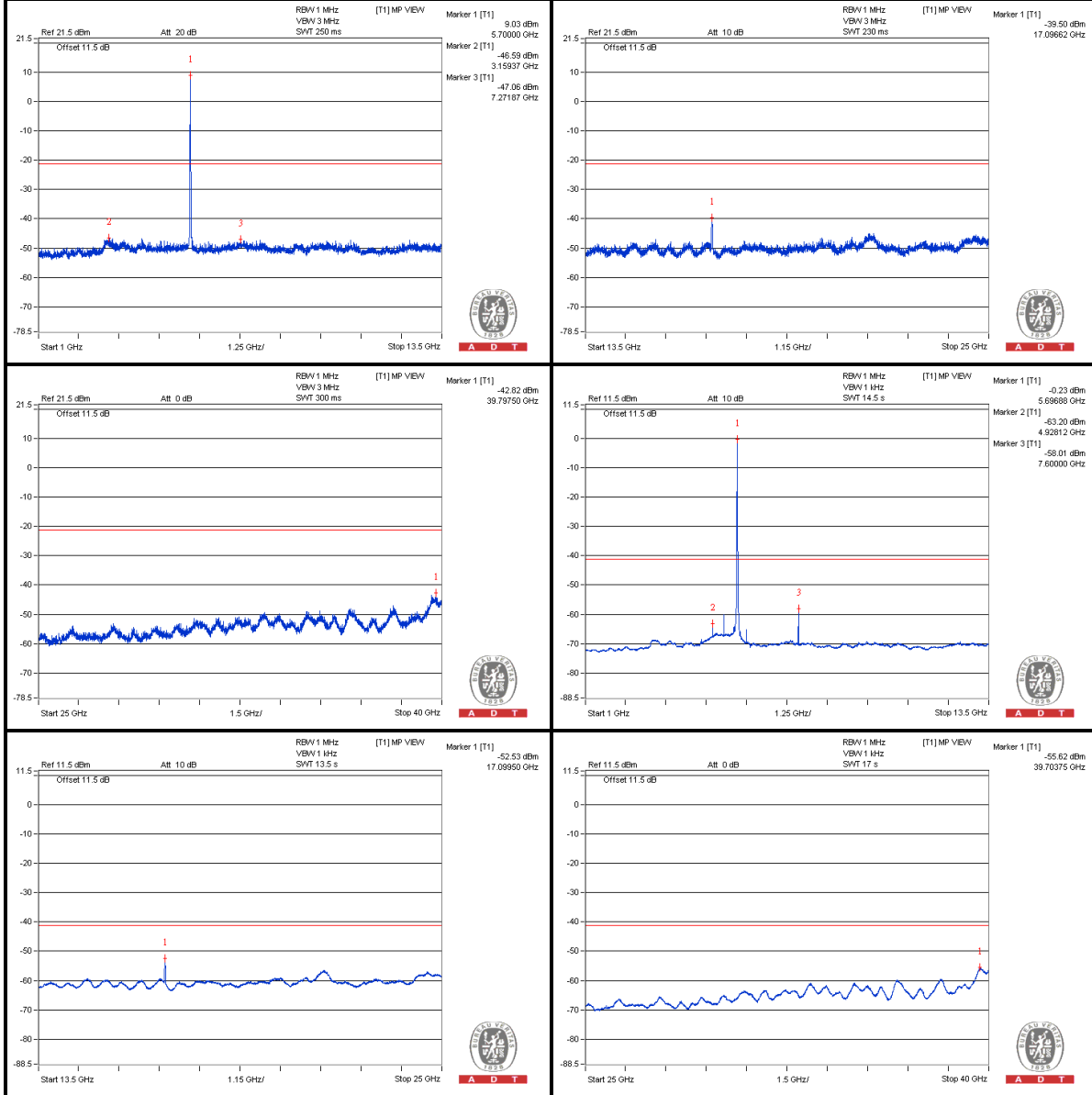
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



A D T

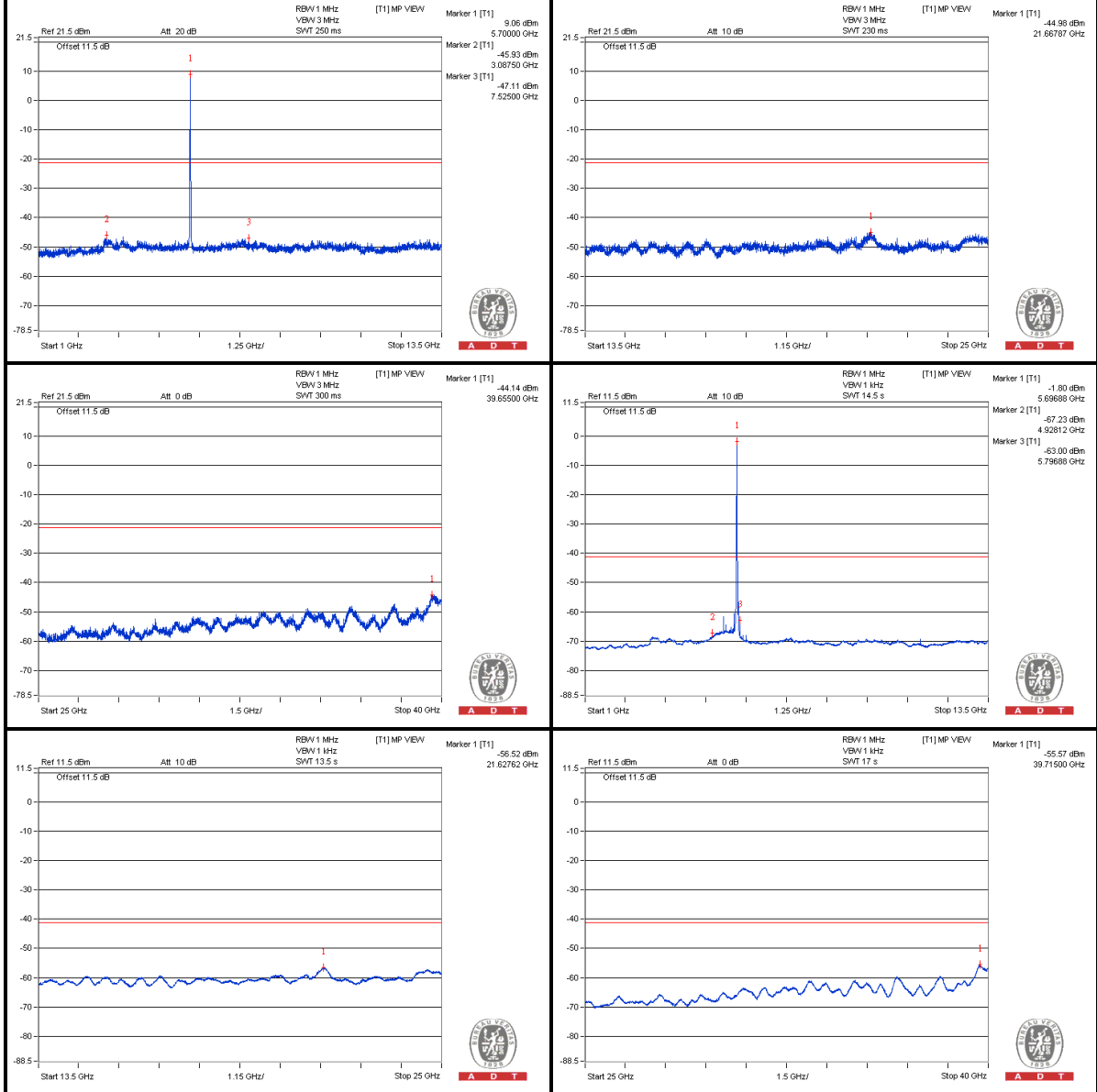
Chain (0)





A D T

Chain (1)





A D T

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)
					Chain0	Chain1		
1	3812.5 PK	57.06	74	-16.94	-49.22	-48.75	7.77	-38.2
2	3812.5 AV	48.3	54	-5.7	-63.92	-55.29	7.77	-46.96
3	7628.125 PK	57.12	74	-16.88	-48.37	-49.56	7.77	-38.14
4	7628.125 AV	46.52	54	-7.48	-56.72	-69.76	7.77	-48.74
5	11443.75 PK	55.8	74	-18.2	-50.14	-50.35	7.77	-39.46
6	11440.625 AV	39.95	54	-14.05	-67.33	-65.13	7.77	-55.31
7	17162.75 PK	55.64	74	-18.36	-50.86	-49.99	7.77	-39.62
8	17159.875 AV	44.3	54	-9.7	-61.83	-61.66	7.77	-50.96

Note :

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



A D T

Chain (0)





A D T

Chain (1)



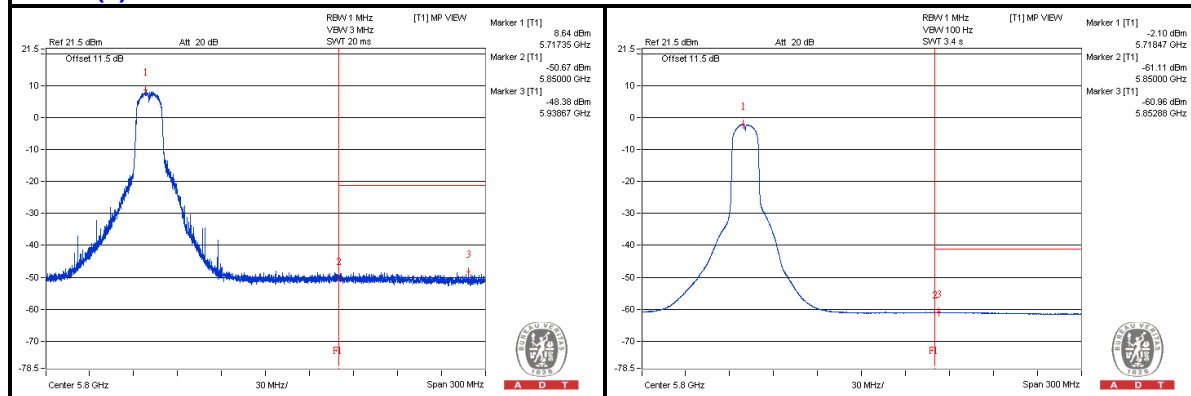
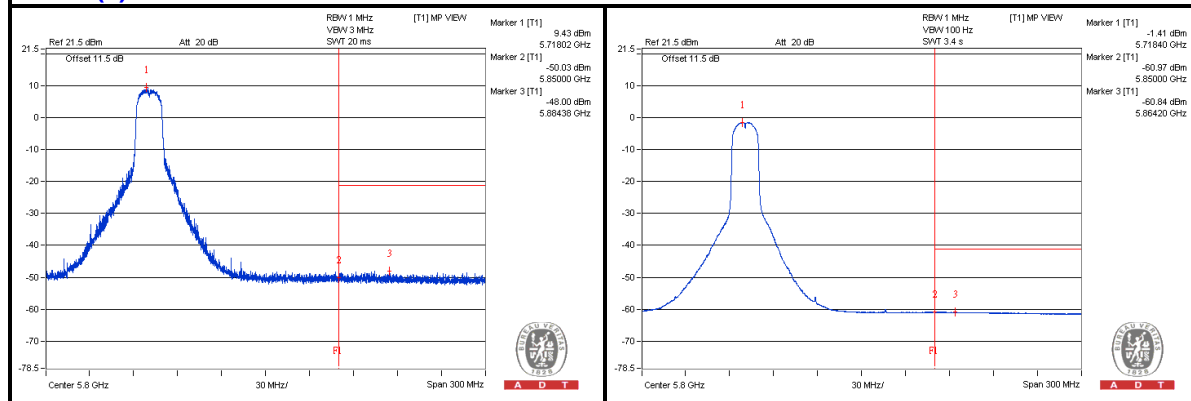
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5872.525 PK	57.35	74	-16.65	-49.21	-48.22	7.77	-37.91
2	5850.625 AV	45.09	54	-8.91	-61	-60.91	7.77	-50.17

Note :

$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain (0)

Chain (1)




A D T

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)
					Chain0	Chain1		
1	3828.125 PK	57.8	74	-16.2	-49.61	-47.2	7.77	-37.46
2	3828.125 AV	50.38	54	-3.62	-71.11	-52.71	7.77	-44.88
3	7659.375 PK	56.44	74	-17.56	-48.68	-50.78	7.77	-38.82
4	7659.375 AV	46.73	54	-7.27	-56.6	-68.07	7.77	-48.53
5	11493.75 PK	56.22	74	-17.78	-49.07	-50.72	7.77	-39.04
6	11493.75 AV	40.08	54	-13.92	-66.08	-65.85	7.77	-55.18

Note :

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

d = measurement distance in 3 meters.



A D T

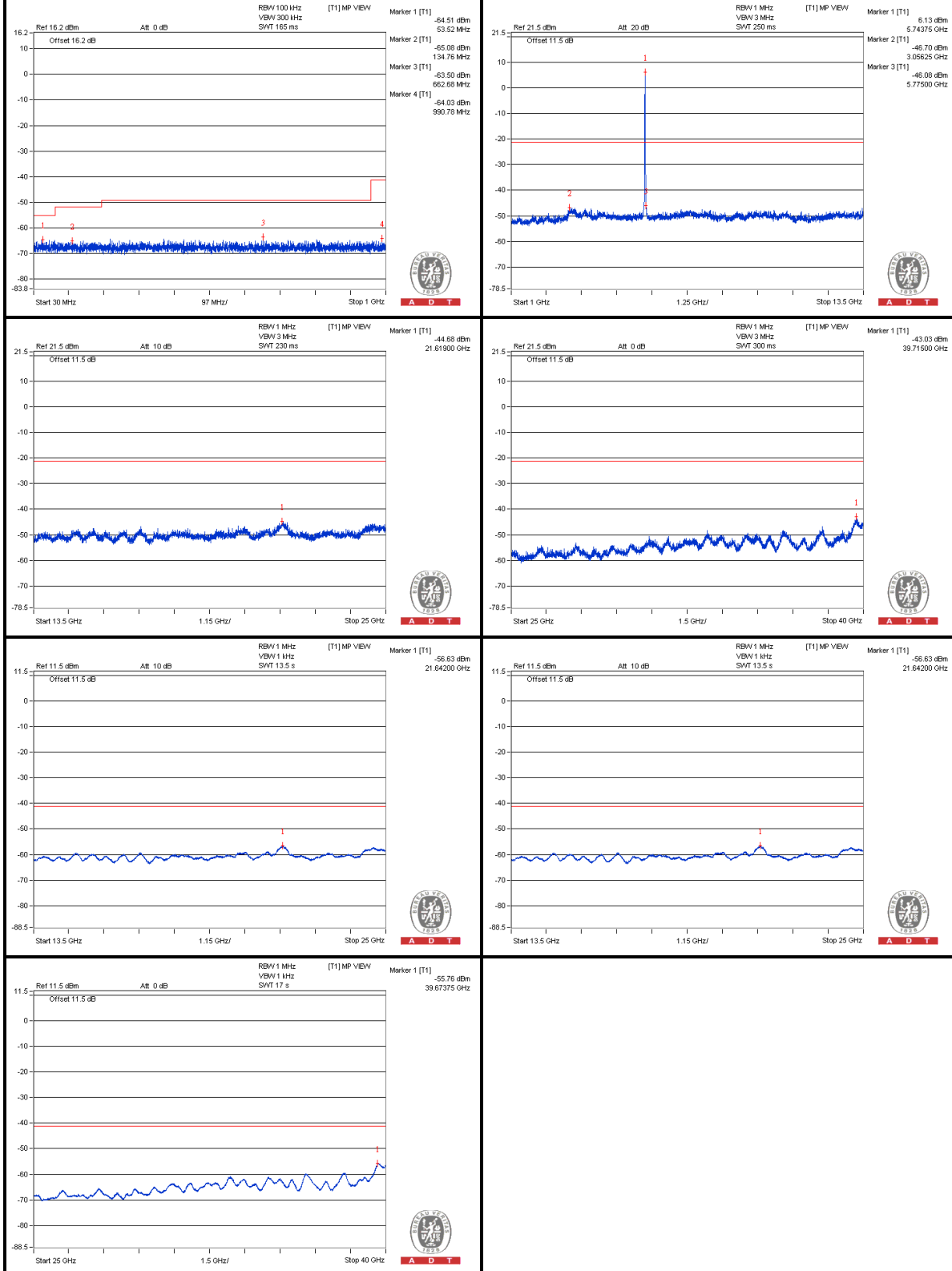
Chain (0)





A D T

Chain (1)





A D T

Bandedge table

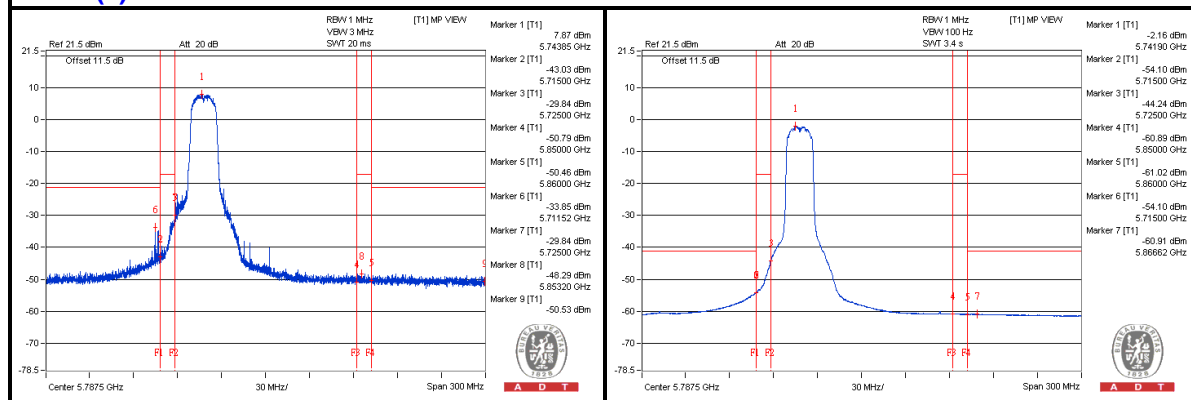
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5711.525 PK	69.51	74	-4.49	-33.85	-44.92	7.77	-25.75
2	5714.975 AV	51.96	54	-2.04	-54.1	-54.06	7.77	-43.3
3	5724.65 PK	74.63	78.2	-3.57	-31.36	-31.46	7.77	-20.63
4	5852.6 PK	57.51	78.2	-20.69	-49.47	-47.75	7.77	-37.75
5	5876.525 PK	57.27	74	-16.73	-48.2	-49.43	7.77	-37.99
6	5863.025 AV	45.18	54	-8.82	-60.93	-60.8	7.77	-50.08

Note :

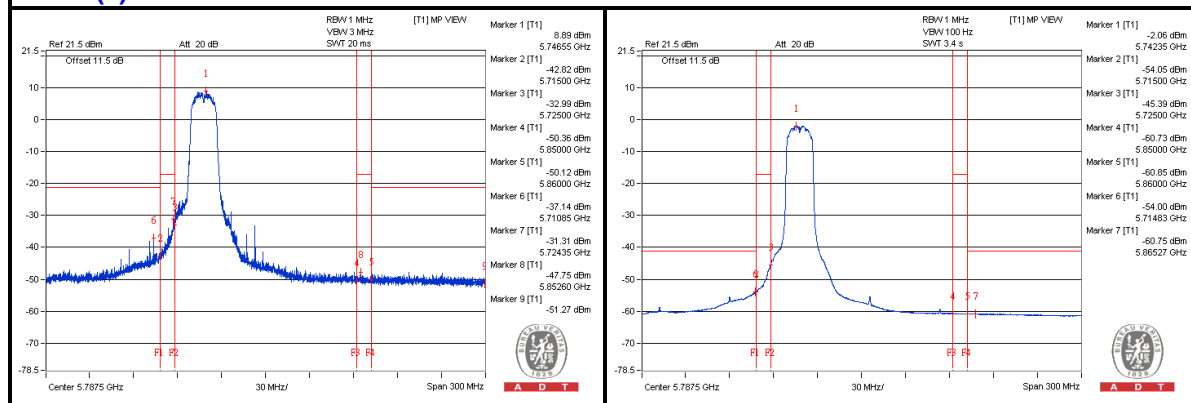
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain (0)



Chain (1)





A D T

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)
					Chain0	Chain1		
1	3856.25 PK	57.95	74	-16.05	-50.61	-46.5	7.77	-37.31
2	3856.25 AV	41.95	54	-12.05	-61.55	-70.96	7.77	-53.31
3	7712.5 PK	57.38	74	-16.62	-47.79	-49.75	7.77	-37.88
4	7712.5 AV	45.27	54	-8.73	-58.04	-69.79	7.77	-49.99
5	11571.875 PK	56.74	74	-17.26	-49.29	-49.31	7.77	-38.52
6	11575 AV	41.03	54	-12.97	-65.65	-64.46	7.77	-54.23
7	3856.25 PK	57.95	74	-16.05	-50.61	-46.5	7.77	-37.31
8	3856.25 AV	41.95	54	-12.05	-61.55	-70.96	7.77	-53.31

Note :

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

d = measurement distance in 3 meters.



A D T

Chain (0)





A D T

Chain (1)





A D T

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)
					Chain0	Chain1		
1	3884.375 PK	60.17	74	-13.83	-49.17	-44.02	7.77	-35.09
2	3881.25 AV	55.39	54	* 1.39	-59	-47.97	7.77	-39.87
3	11650 PK	55.95	74	-18.05	-50.36	-49.84	7.77	-39.31
4	11656.25 AV	39.06	54	-14.94	-67.58	-66.46	7.77	-56.2

Note :

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

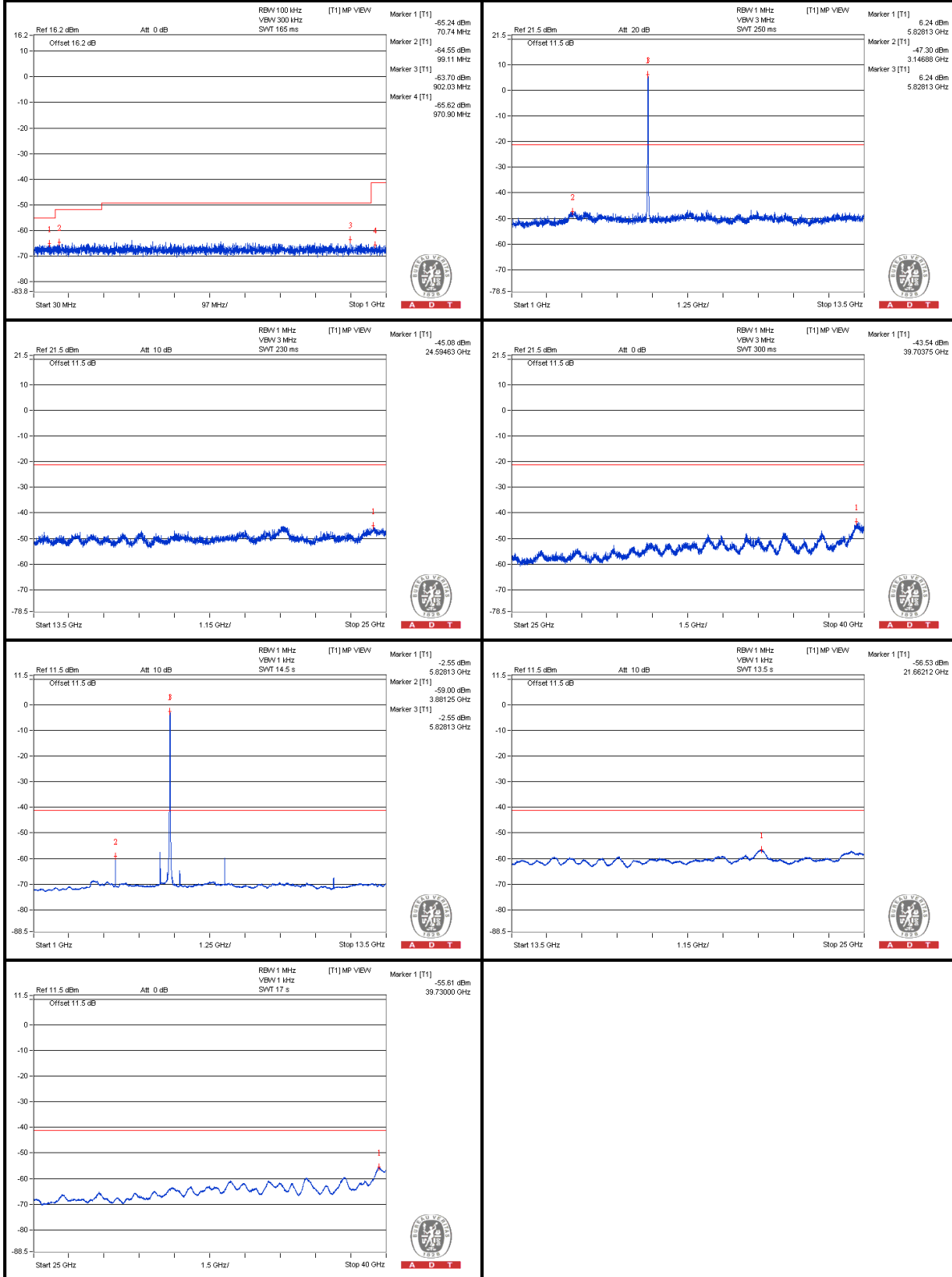
d = measurement distance in 3 meters.

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



A D T

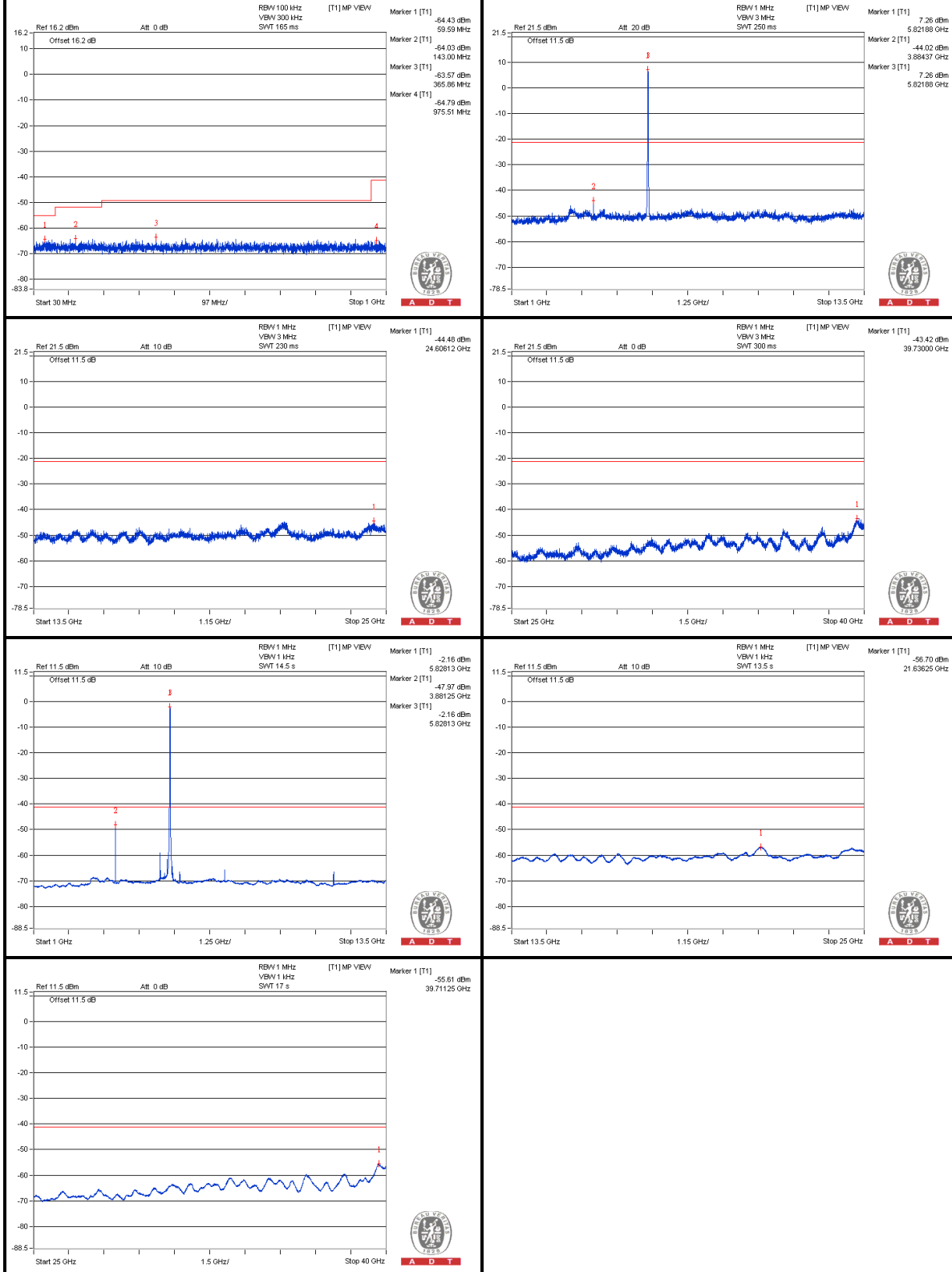
Chain (0)





A D T

Chain (1)





A D T

Bandedge table

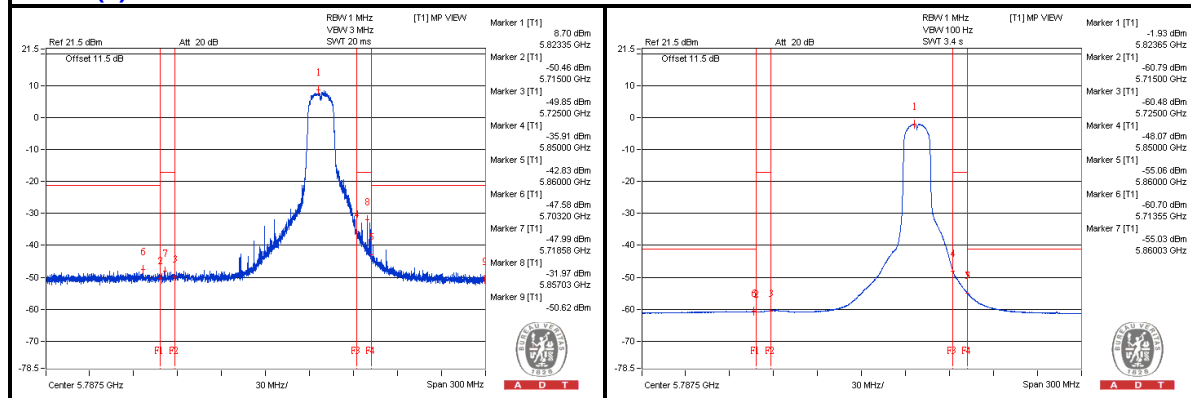
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5705.375 PK	56.93	74	-17.07	-51.35	-47.64	7.77	-38.33
2	5711.525 AV	46.31	54	-7.69	-60.75	-58.9	7.77	-48.95
3	5724.425 PK	56.77	78.2	-21.43	-50.19	-48.51	7.77	-38.49
4	5857.025 PK	70.31	78.2	-7.89	-32.97	-45.31	7.77	-24.95
5	5869.1 PK	67.23	74	-6.77	-48.74	-36.03	7.77	-28.03
6	5860.025 AV	50.86	54	-3.14	-55.03	-55.34	7.77	-44.4

Note :

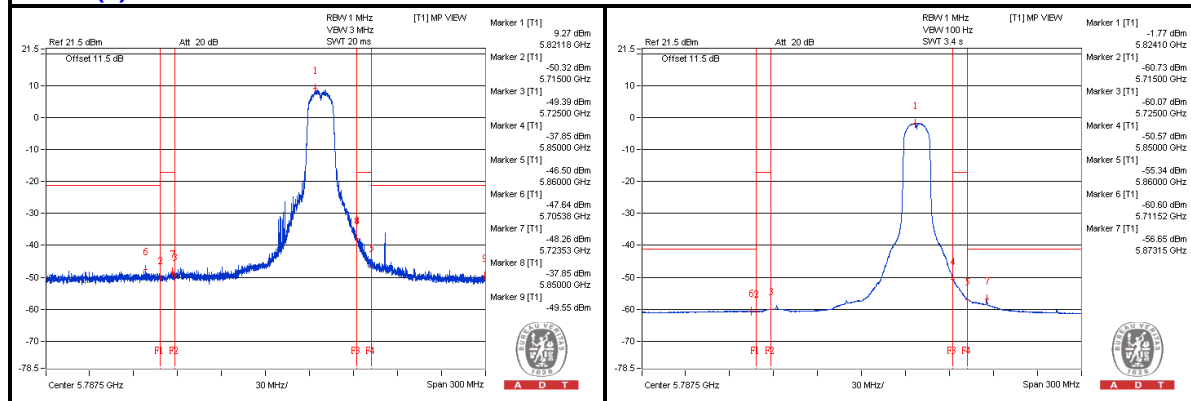
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain (0)



Chain (1)





A D T

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)
					Chain0	Chain1		
1	3468.75 PK	55.39	74	-18.61	-48.36	-49.69	6.09	-39.87
2	3459.375 AV	42.89	54	-11.11	-69.67	-58.8	6.09	-52.37
3	6921.875 PK	57.52	74	-16.48	-45.42	-48.96	6.09	-37.74
4	6918.75 AV	49.87	54	-4.13	-51.55	-69.73	6.09	-45.39
5	10381.25 PK	55.47	74	-18.53	-47.72	-50.5	6.09	-39.79
6	10384.375 AV	36.42	54	-17.58	-67.98	-67.9	6.09	-58.84
7	15572.875 PK	54.74	74	-19.26	-50.08	-49.2	6.09	-40.52
8	15567.125 AV	43.34	54	-10.66	-60.61	-61.48	6.09	-51.92

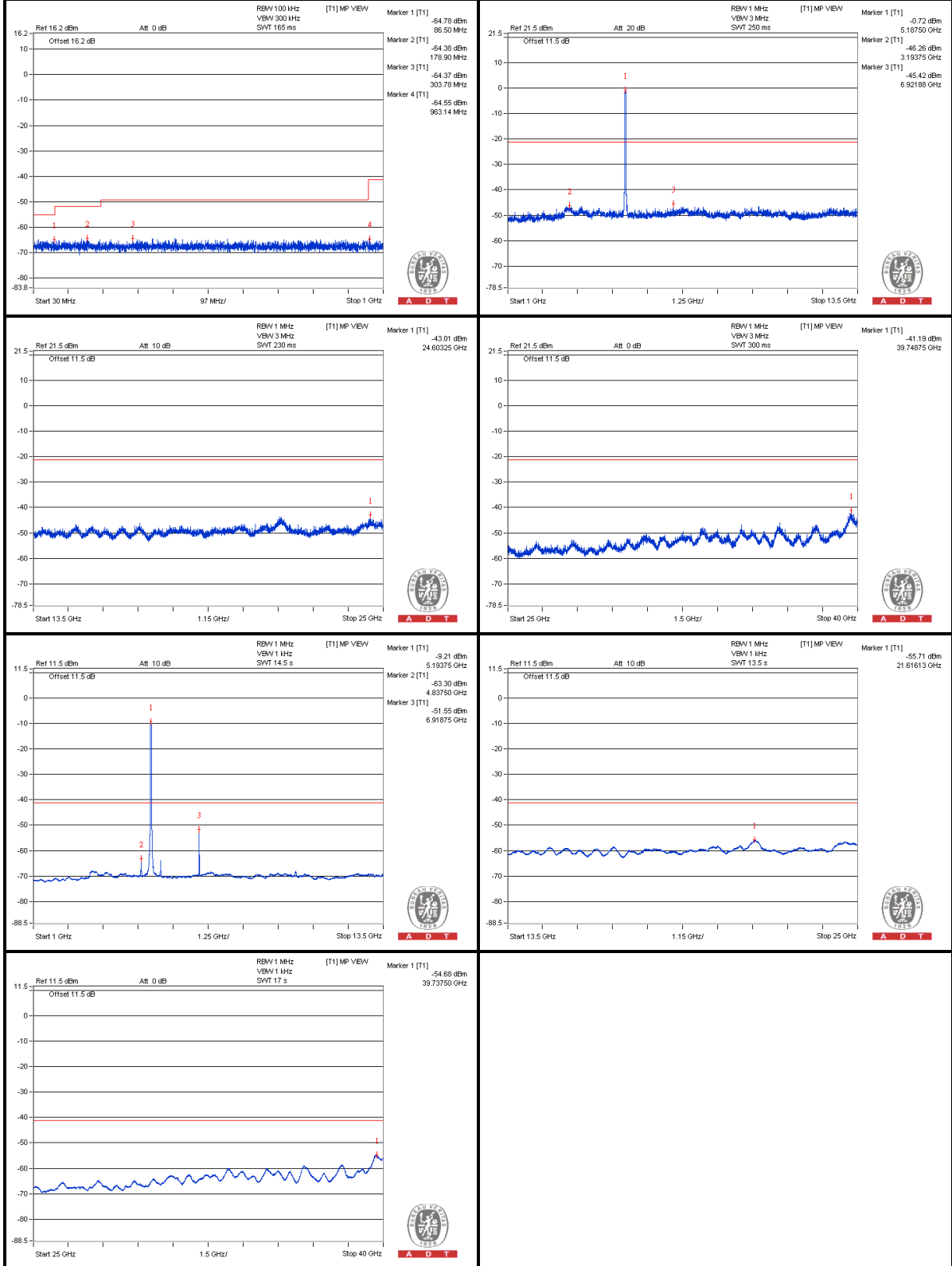
Note :

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



A D T

Chain (0)





A D T

Chain (1)





A D T

Bandedge table

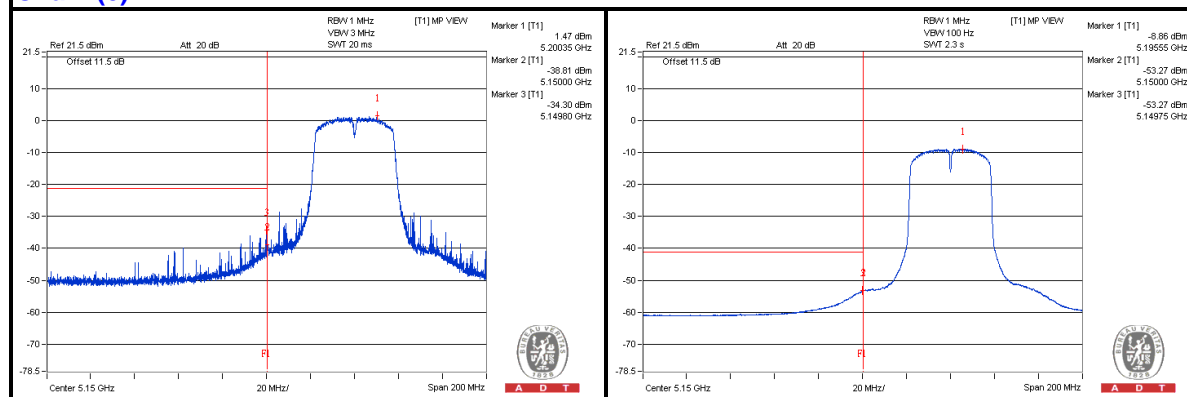
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5148.1 PK	70.31	74	-3.69	-42.79	-31.34	6.09	-24.95
2	5150 AV	50.14	54	-3.86	-53.27	-55.45	6.09	-45.12

Note :

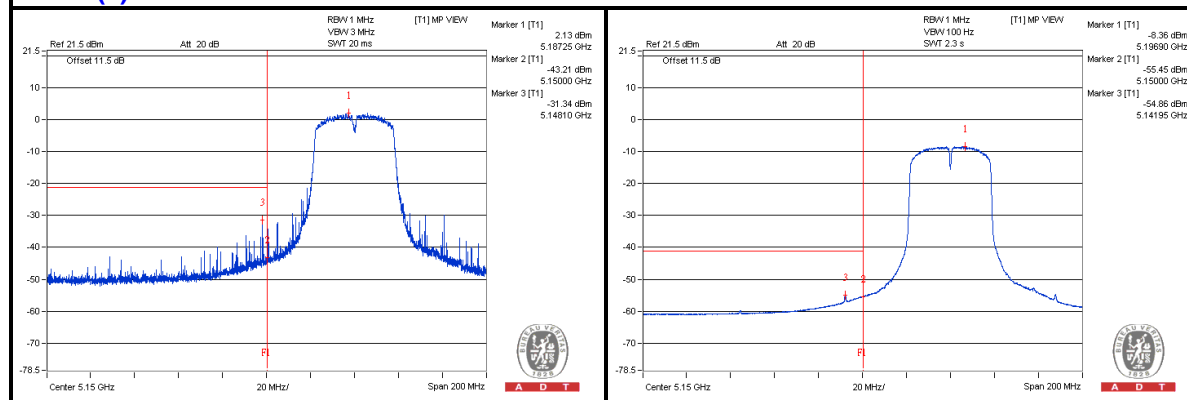
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain (0)



Chain (1)





A D T

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)
					Chain0	Chain1		
1	3487.5 PK	55.39	74	-18.61	-49.87	-48.23	6.09	-39.87
2	3484.375 AV	46.51	54	-7.49	-69.71	-54.98	6.09	-48.75
3	6971.875 PK	55.89	74	-18.11	-47.28	-50.12	6.09	-39.37
4	6975 AV	40.31	54	-13.69	-69.45	-61.72	6.09	-54.95
5	10465.625 PK	54.9	74	-19.1	-50.19	-48.83	6.09	-40.36
6	10465.625 AV	38.77	54	-15.23	-66.6	-64.77	6.09	-56.49
7	15685 PK	54.66	74	-19.34	-50.22	-49.24	6.09	-40.6
8	15685 AV	42.63	54	-11.37	-61.41	-62.07	6.09	-52.63

Note :

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

d = measurement distance in 3 meters.



A D T

Chain (0)





A D T

Chain (1)





A D T

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)
					Chain0	Chain1		
1	3512.5 PK	56.93	74	-17.07	-48.07	-46.88	6.09	-38.33
2	3512.5 AV	41.07	54	-12.93	-68.94	-60.92	6.09	-54.19
3	7028.125 PK	55.83	74	-18.17	-47.64	-49.65	6.09	-39.43
4	7028.125 AV	47.27	54	-6.73	-54.55	-63.93	6.09	-47.99
5	10543.75 PK	55.46	74	-18.54	-48.7	-49.1	6.09	-39.8
6	10540.625 AV	40.04	54	-13.96	-66.2	-63.01	6.09	-55.22
7	15805.75 PK	54.78	74	-19.22	-50.74	-48.66	6.09	-40.48
8	15817.25 AV	43.78	54	-10.22	-60.54	-60.62	6.09	-51.48

Note :

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

d = measurement distance in 3 meters.



A D T

Chain (0)





A D T

Chain (1)





A D T

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)
					Chain0	Chain1		
1	3550 PK	56.85	74	-17.15	-47.14	-47.91	6.09	-38.41
2	3543.75 AV	35.14	54	-18.86	-68.84	-69.64	6.09	-60.12
3	7081.25 PK	57.36	74	-16.64	-46.31	-47.81	6.09	-37.9
4	7081.25 AV	46.01	54	-7.99	-60.03	-57.14	6.09	-49.25
5	10625 PK	55.16	74	-18.84	-48.83	-49.61	6.09	-40.1
6	10621.875 AV	37.93	54	-16.07	-67.4	-65.63	6.09	-57.33
7	15929.375 PK	54.27	74	-19.73	-49.4	-50.92	6.09	-40.99
8	15923.625 AV	43.47	54	-10.53	-60.37	-61.48	6.09	-51.79

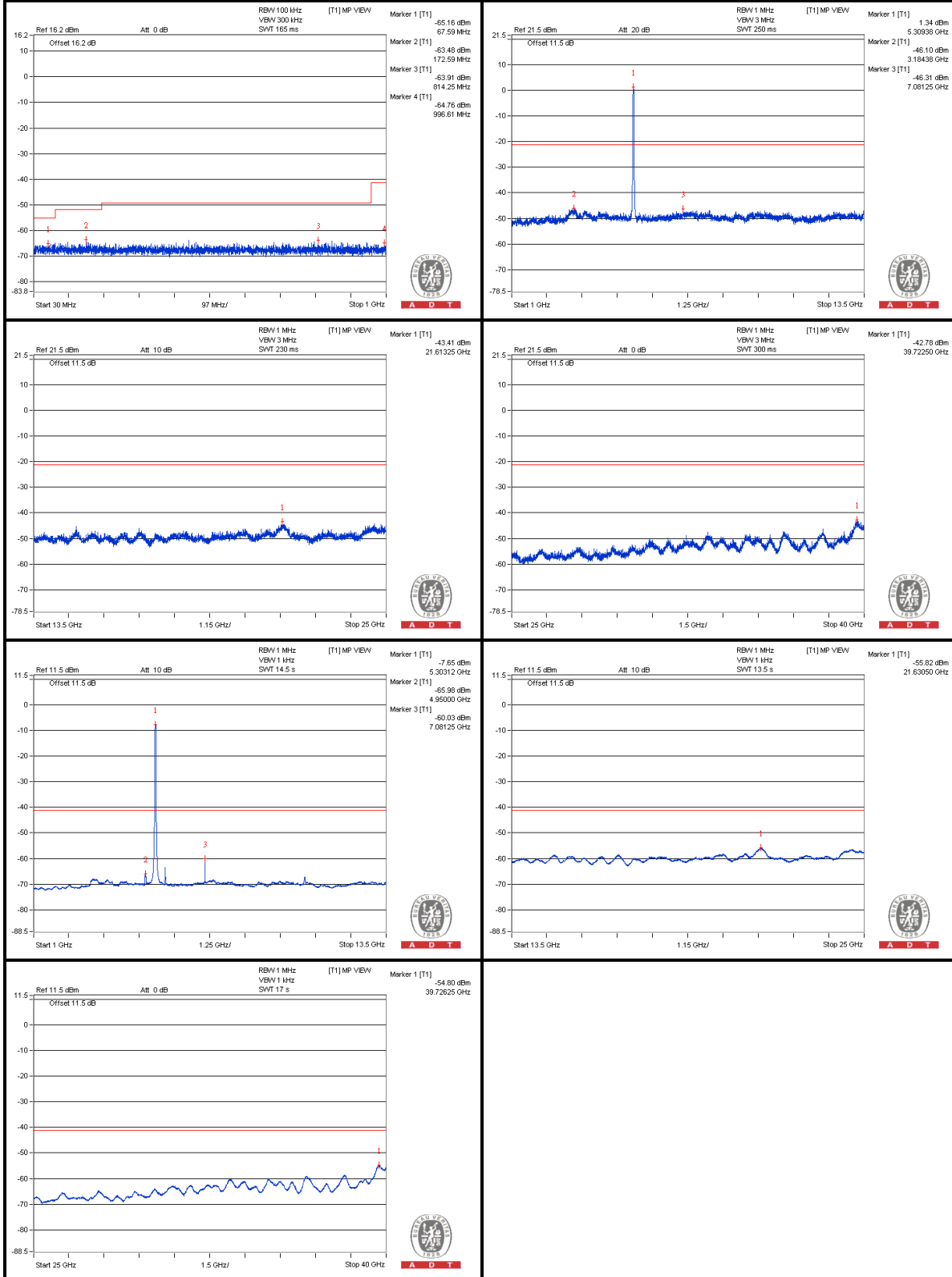
Note :

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



A D T

Chain (0)





A D T

Chain (1)



Bandedge table

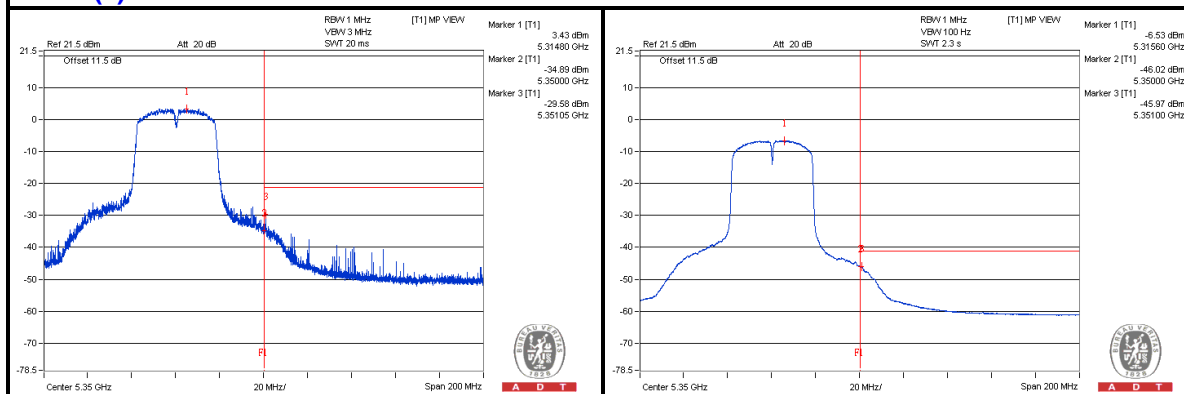
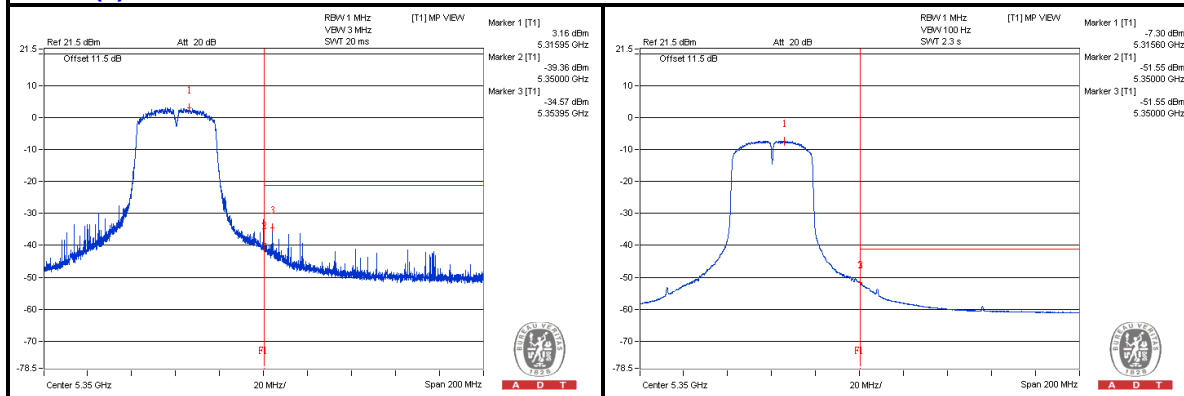
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5351.05 PK	72.03	74	-1.97	-29.58	-41.64	6.09	-23.23
2	5350 AV	56.4	54	* 2.4	-46.02	-51.55	6.09	-38.86

Note :

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

d = measurement distance in 3 meters.

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

Chain (0)

Chain (1)




A D T

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)
					Chain0	Chain1		
1	3671.875 PK	58.71	74	-15.29	-48.63	-46.33	7.77	-36.55
2	3671.875 AV	52.3	54	-1.7	-65.57	-50.88	7.77	-42.96
3	7346.875 PK	58.73	74	-15.27	-46.57	-48.2	7.77	-36.53
4	7346.875 AV	51.08	54	-2.92	-52.06	-68.02	7.77	-44.18
5	11028.125 PK	56.22	74	-17.78	-48.94	-50.93	7.77	-39.04
6	11018.75 AV	38.41	54	-15.59	-67.56	-67.7	7.77	-56.85
7	16527.375 PK	56.29	74	-17.71	-49.49	-50.03	7.77	-38.97
8	16524.5 AV	45.24	54	-8.76	-60.26	-61.42	7.77	-50.02

Note :

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

d = measurement distance in 3 meters.



A D T

Chain (0)





A D T

Chain (1)



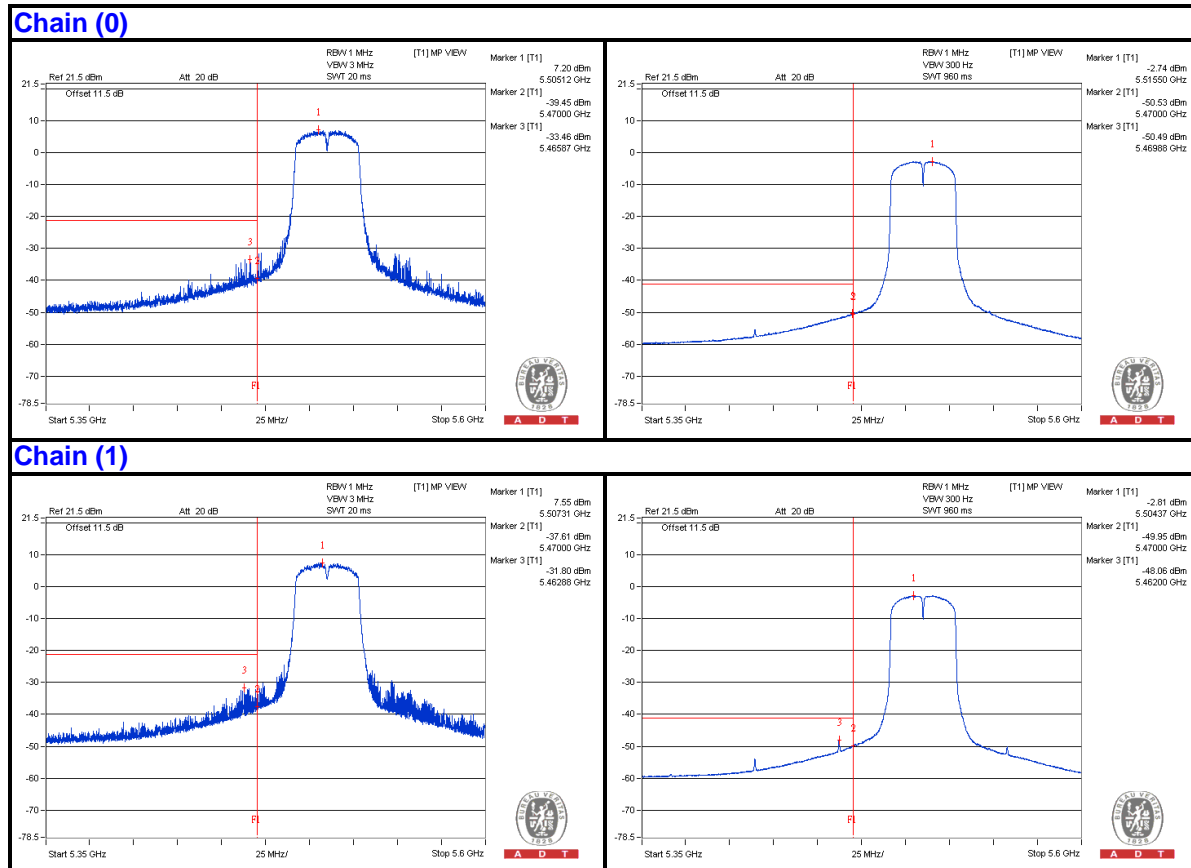
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5468.375 PK	72.25	74	-1.75	-38.31	-31.62	7.77	-23.01
2	5469.4375 AV	55.83	54	* 1.83	-48.44	-53.26	7.77	-39.43

Note :

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

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





A D T

802.11ac (VHT40) - Channel 118

Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3725 PK	57.71	74	-16.29	-49.26	-47.57	7.77	-37.55
2	3725 AV	50.59	54	-3.41	-65.25	-52.67	7.77	-44.67
3	7443.75 PK	57.47	74	-16.53	-49.32	-47.93	7.77	-37.79
4	7453.125 AV	48.08	54	-5.92	-55.81	-62.41	7.77	-47.18
5	11178.125 PK	56.64	74	-17.36	-49.19	-49.63	7.77	-38.62
6	11181.25 AV	40.08	54	-13.92	-67.27	-64.95	7.77	-55.18
7	16774.625 PK	55.3	74	-18.7	-50.78	-50.7	7.77	-39.96
8	16777.5 AV	44.43	54	-9.57	-61.74	-61.48	7.77	-50.83

Note :

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

d = measurement distance in 3 meters.



A D T

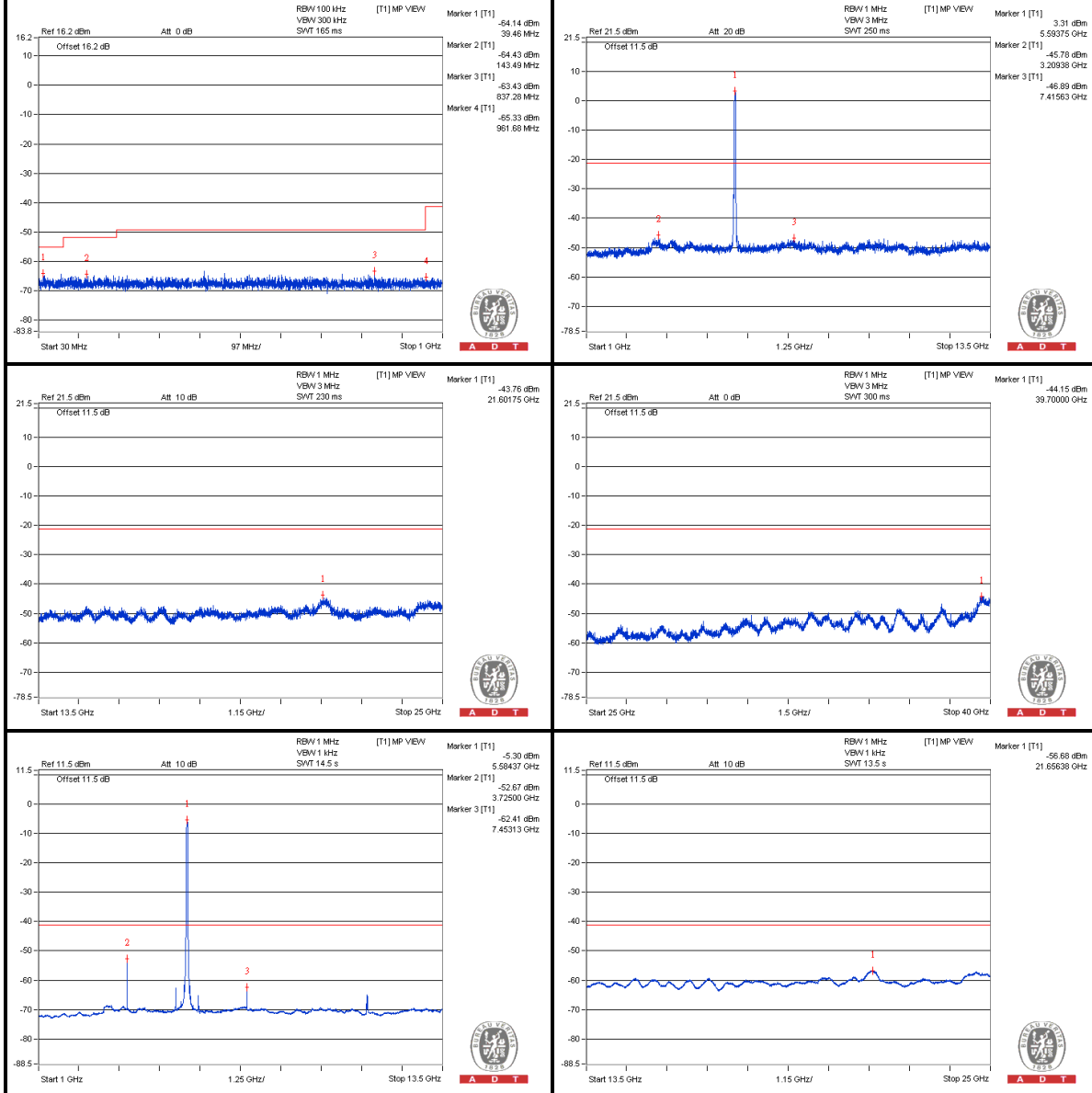
Chain (0)





A D T

Chain (1)





A D T

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)
					Chain0	Chain1		
1	3778.125 PK	58.69	74	-15.31	-48.5	-46.44	7.77	-36.57
2	3778.125 AV	50.78	54	-3.22	-61.81	-52.76	7.77	-44.48
3	7559.375 PK	57.27	74	-16.73	-48.14	-49.5	7.77	-37.99
4	7559.375 AV	48.18	54	-5.82	-55.8	-61.94	7.77	-47.08
5	11334.375 PK	55.92	74	-18.08	-49.86	-50.39	7.77	-39.34
6	11340.625 AV	39.15	54	-14.85	-67.83	-66.11	7.77	-56.11
7	17016.125 PK	58.28	74	-15.72	-46.95	-48.75	7.77	-36.98
8	17001.75 AV	46.49	54	-7.51	-59.47	-59.63	7.77	-48.77

Note :

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



A D T

Chain (0)





A D T

Chain (1)



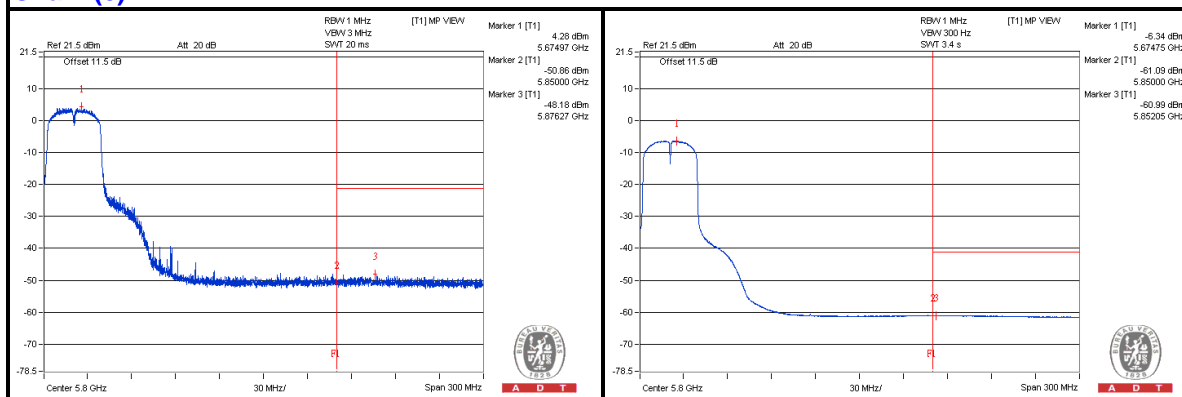
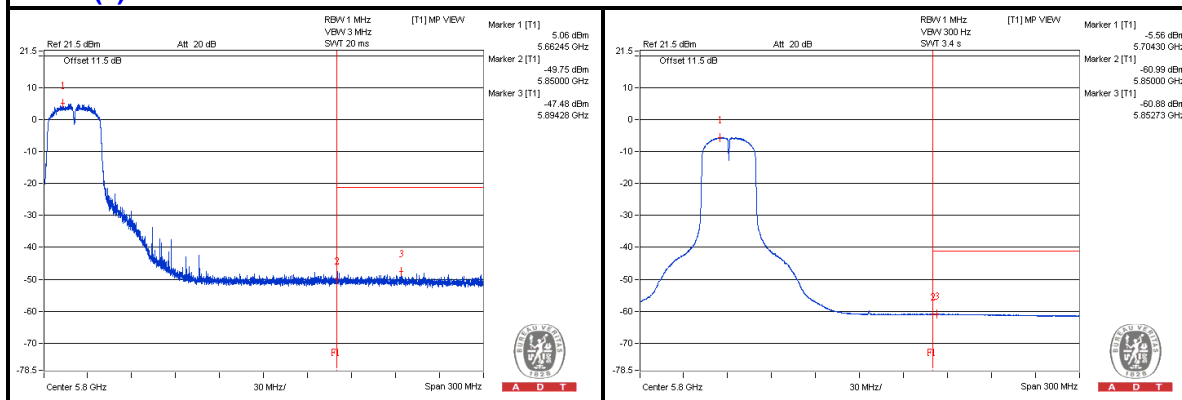
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5728.675 PK	66.16	74	-7.84	-47.22	-37.29	7.77	-29.1
2	5725 AV	49.98	54	-4.02	-56.29	-55.85	7.77	-45.28

Note :

$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain (0)

Chain (1)




A D T

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)
					Chain0	Chain1		
1	3806.25 PK	56.89	74	-17.11	-50.65	-48.04	7.77	-38.37
2	3806.25 AV	48.56	54	-5.44	-64.71	-54.9	7.77	-46.7
3	7621.875 PK	57.42	74	-16.58	-49.59	-47.82	7.77	-37.84
4	7612.5 AV	46.96	54	-7.04	-56.37	-67.89	7.77	-48.3
5	11425 PK	56.06	74	-17.94	-50.02	-49.95	7.77	-39.2
6	11421.875 AV	38.32	54	-15.68	-68.83	-66.83	7.77	-56.94
7	17128.25 PK	55.24	74	-18.76	-51.15	-50.47	7.77	-40.02
8	17125.375 AV	44.84	54	-9.16	-61.34	-61.07	7.77	-50.42

Note :

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

d = measurement distance in 3 meters.



A D T

Chain (0)





A D T

Chain (1)



Bandedge table

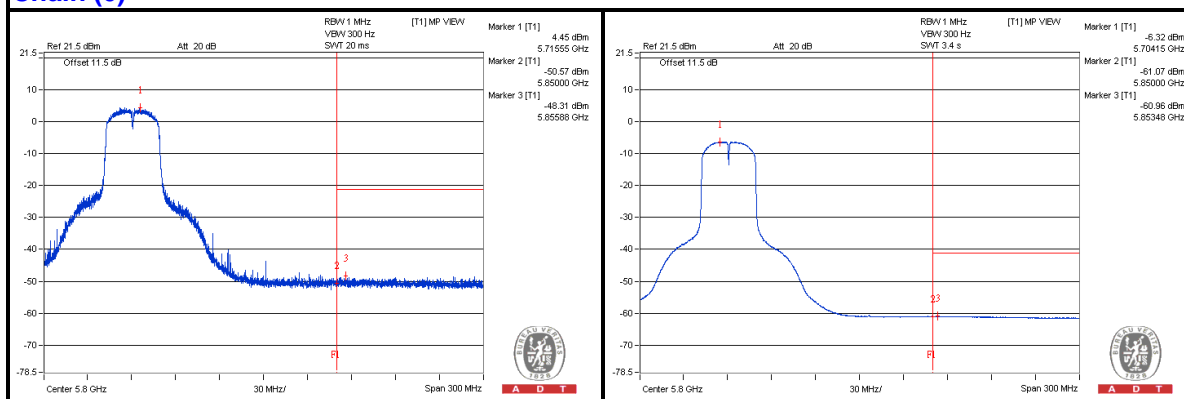
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5851.825 PK	57.28	74	-16.72	-49.07	-48.47	7.77	-37.98
2	5852.65 AV	45.09	54	-8.91	-61.02	-60.89	7.77	-50.17

Note :

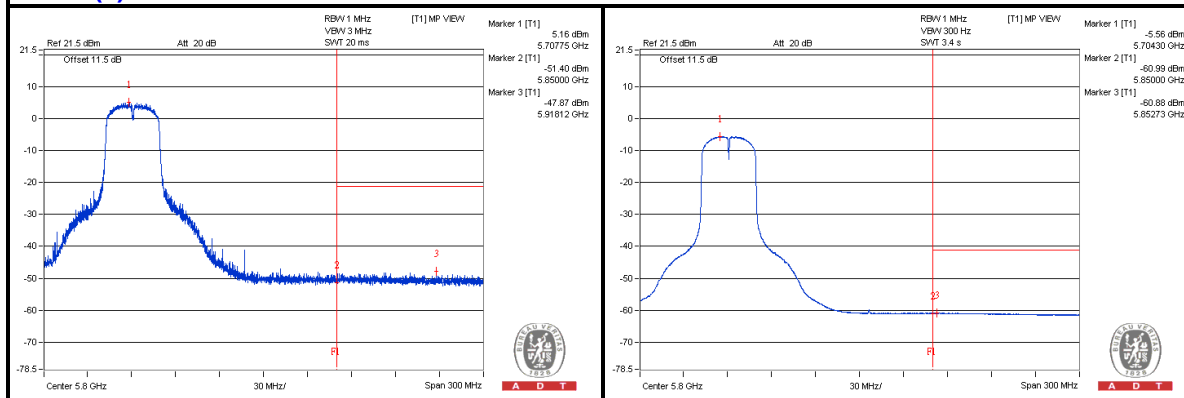
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain (0)



Chain (1)





A D T

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)
					Chain0	Chain1		
1	3837.5 PK	57.85	74	-16.15	-51.67	-46.29	7.77	-37.41
2	3834.375 AV	52.27	54	-1.73	-62.95	-51.03	7.77	-42.99
3	7675 PK	56.61	74	-17.39	-49.49	-49.38	7.77	-38.65
4	7675 AV	47.77	54	-6.23	-55.58	-66.77	7.77	-47.49
5	11506.25 PK	55.56	74	-18.44	-50.7	-50.27	7.77	-39.7
6	11509.375 AV	38.02	54	-15.98	-68.49	-67.59	7.77	-57.24

Note :

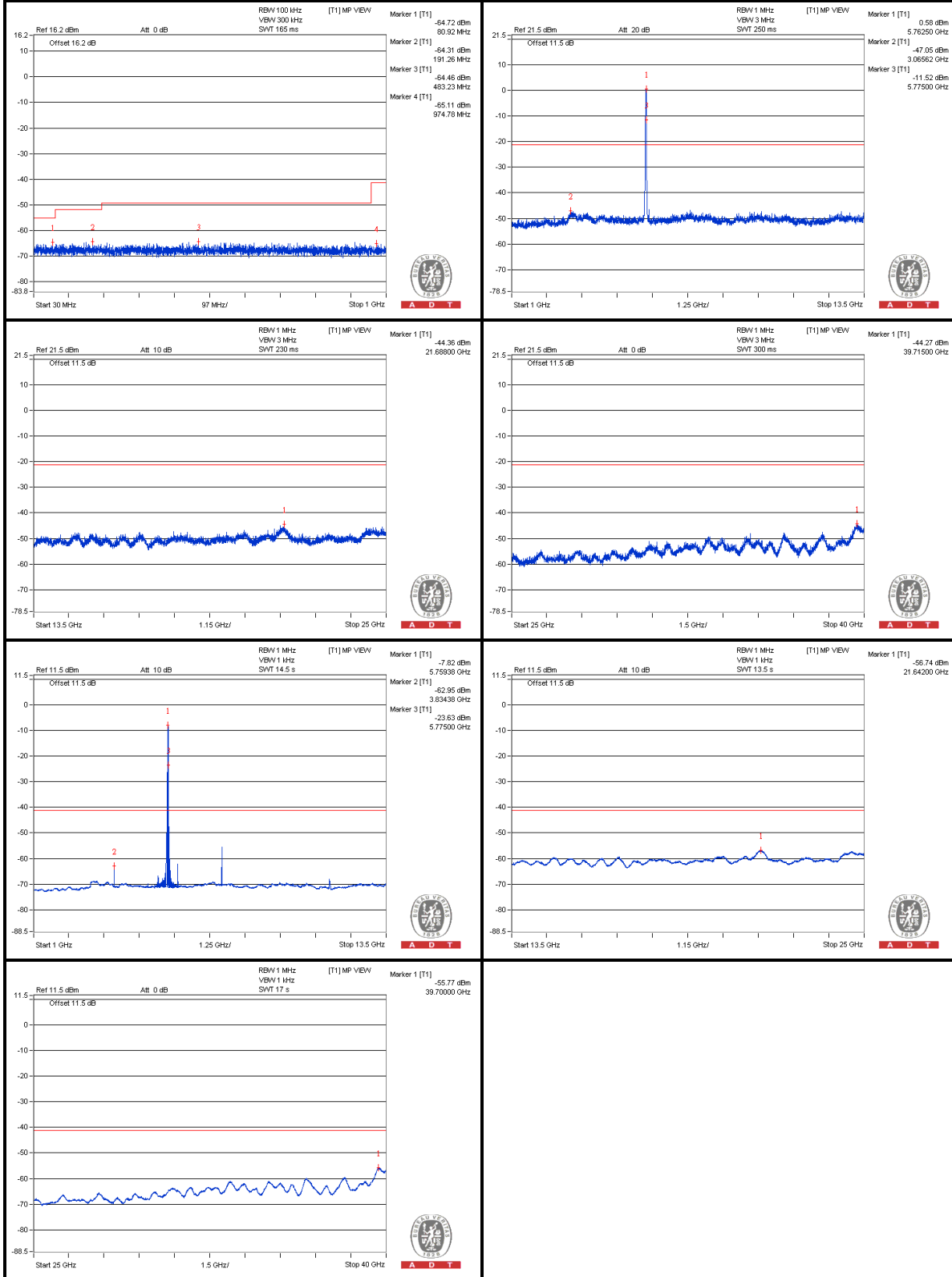
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



A D T

Chain (0)





A D T

Chain (1)





A D T

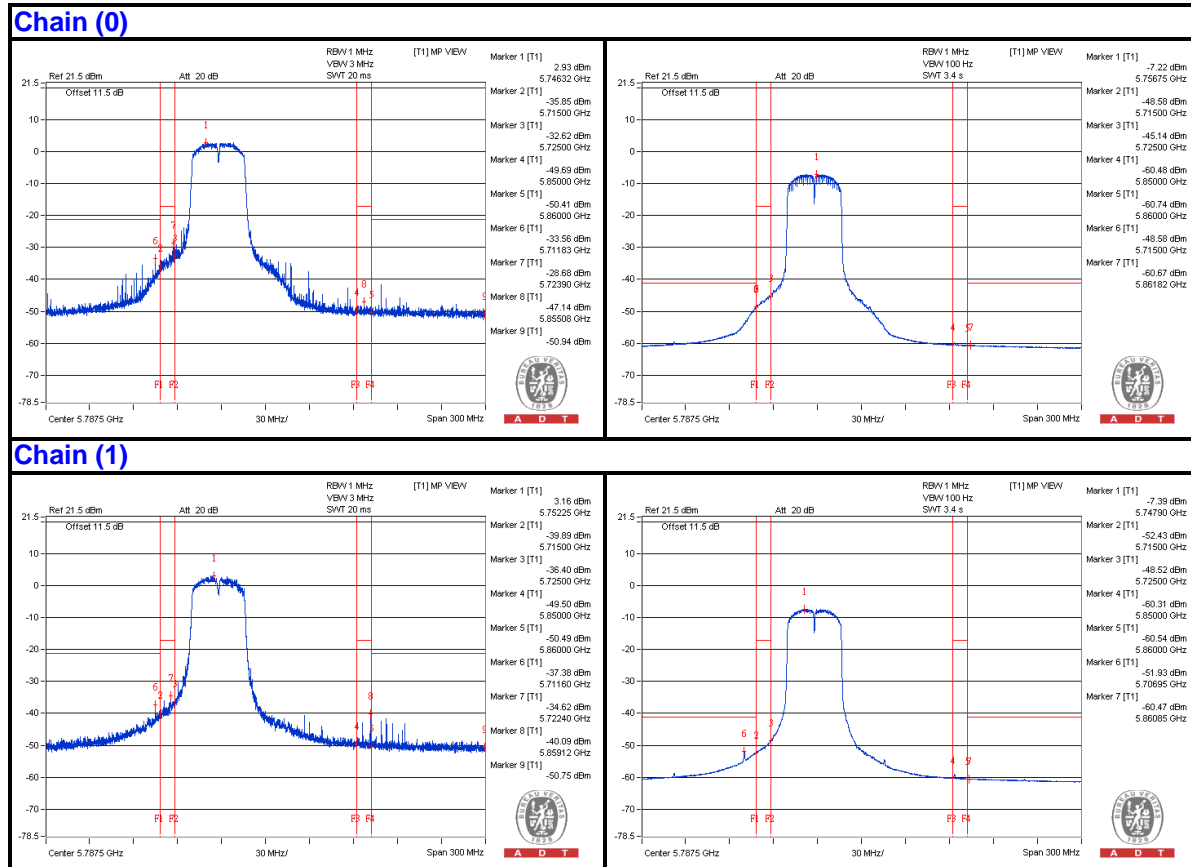
Bandedge table

No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5711.825 PK	69.95	74	-4.05	-33.56	-42.84	7.77	-25.31
2	5714.975 AV	55.92	54	* 1.92	-48.61	-52.45	7.77	-39.34
3	5723.9 PK	74.91	78.2	-3.29	-28.68	-37.28	7.77	-20.35
4	5859.125 PK	63.34	78.2	-14.86	-50.3	-40.09	7.77	-31.92
5	5870 PK	62.77	74	-11.23	-46.05	-41.59	7.77	-32.49
6	5860.85 AV	45.44	54	-8.56	-60.73	-60.47	7.77	-49.82

Note :

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

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





A D T

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)
					Chain0	Chain1		
1	3862.5 PK	59.25	74	-14.75	-50.06	-44.95	7.77	-36.01
2	3862.5 AV	54.14	54	* 0.14	-60.06	-49.24	7.77	-41.12
3	7728.125 PK	57.35	74	-16.65	-47.75	-49.89	7.77	-37.91
4	7728.125 AV	36.49	54	-17.51	-69.94	-69.19	7.77	-58.77
5	11596.875 PK	55.38	74	-18.62	-50.2	-51.17	7.77	-39.88
6	11590.625 AV	39.07	54	-14.93	-67.57	-66.44	7.77	-56.19

Note :

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

d = measurement distance in 3 meters.

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



A D T

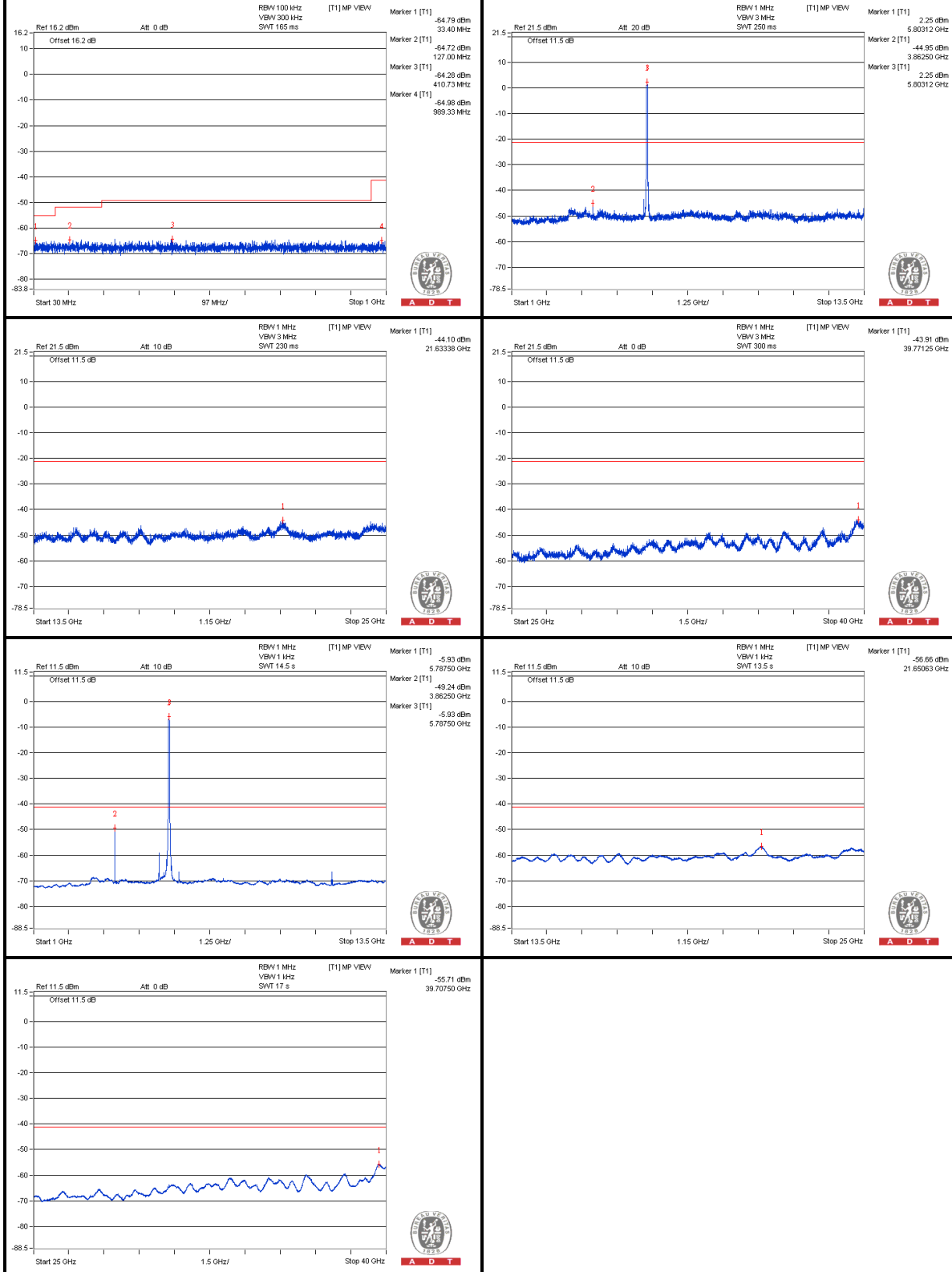
Chain (0)





A D T

Chain (1)





A D T

Bandedge table

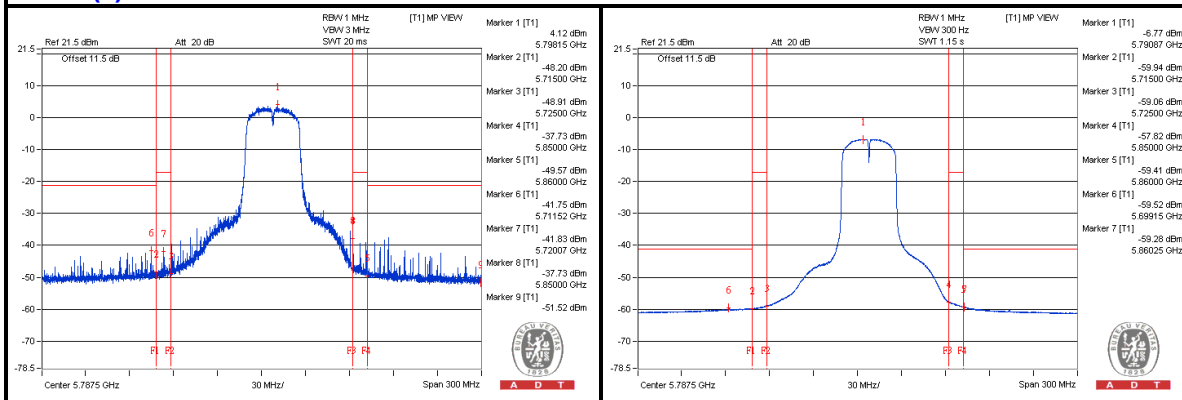
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5702.6 PK	63.73	74	-10.27	-49.53	-39.73	7.77	-31.53
2	5699.15 AV	47.13	54	-6.87	-59.52	-58.38	7.77	-48.13
3	5715.275 PK	64.38	78.2	-13.82	-48.99	-39.07	7.77	-30.88
4	5850.05 PK	65.59	78.2	-12.61	-37.88	-47.61	7.77	-29.67
5	5874.125 PK	65.59	74	-8.41	-37.66	-50.59	7.77	-29.67
6	5860.025 AV	46.77	54	-7.23	-59.41	-59.14	7.77	-48.49

Note :

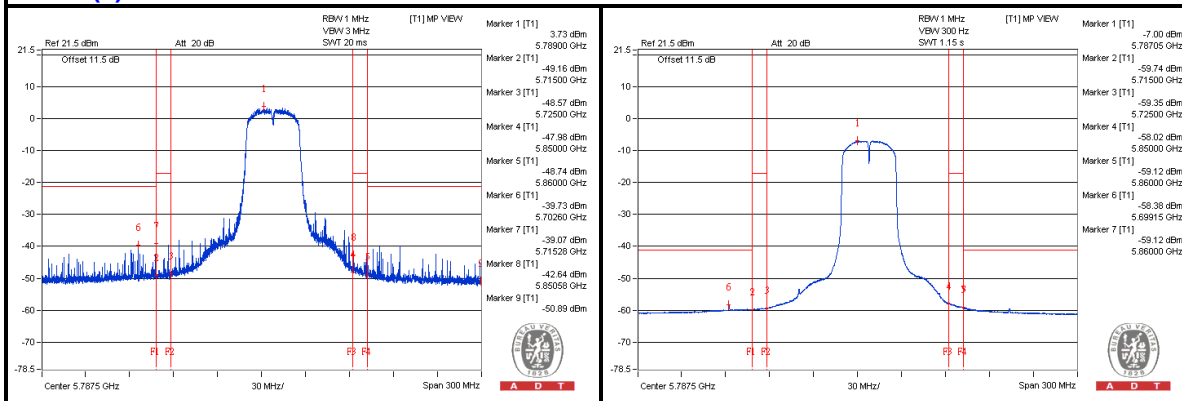
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain (0)



Chain (1)





A D T

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)
					Chain0	Chain1		
1	3471.875 PK	57.21	74	-16.79	-49.32	-48.39	7.77	-38.05
2	3471.875 AV	45.9	54	-8.1	-69.74	-57.38	7.77	-49.36
3	6946.875 PK	59.27	74	-14.73	-45.34	-48.91	7.77	-35.99
4	6946.875 AV	52.15	54	-1.85	-51.13	-63.49	7.77	-43.11
5	10425 PK	56.93	74	-17.07	-48.06	-50.5	7.77	-38.33
6	10421.875 AV	36.76	54	-17.24	-69.22	-69.35	7.77	-58.5
7	15624.625 PK	55.38	74	-18.62	-50.24	-51.13	7.77	-39.88
8	15621.75 AV	44.48	54	-9.52	-61.27	-61.88	7.77	-50.78

Note :

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



A D T

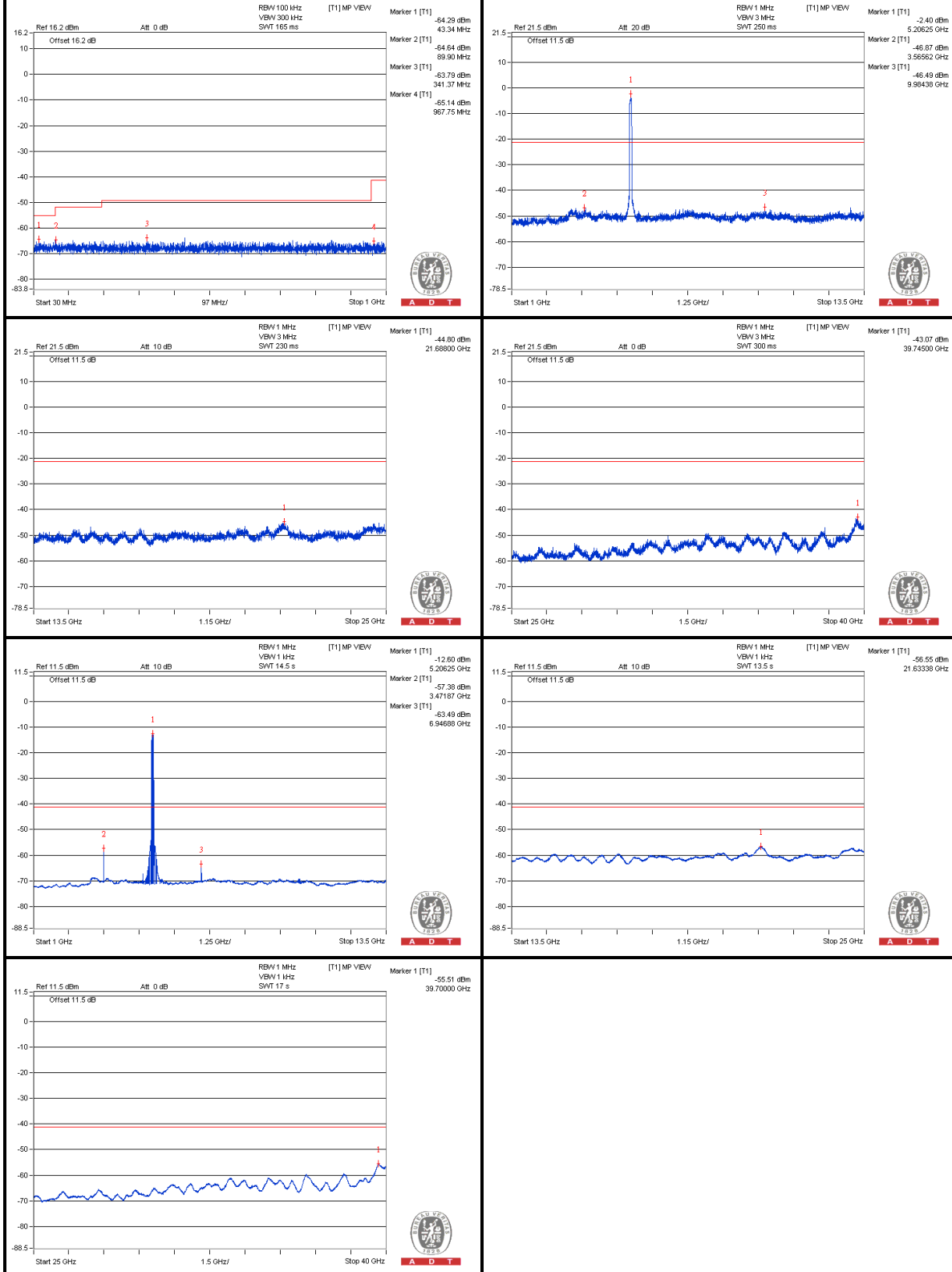
Chain (0)





A D T

Chain (1)



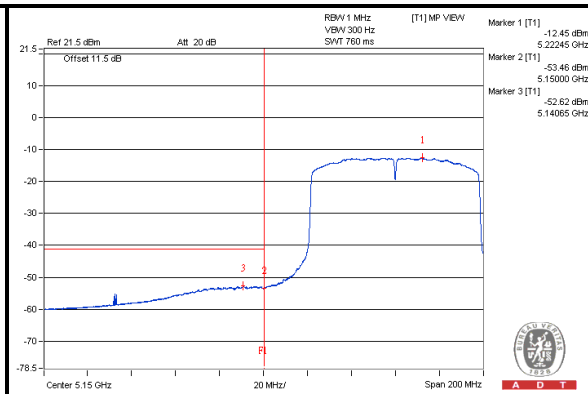
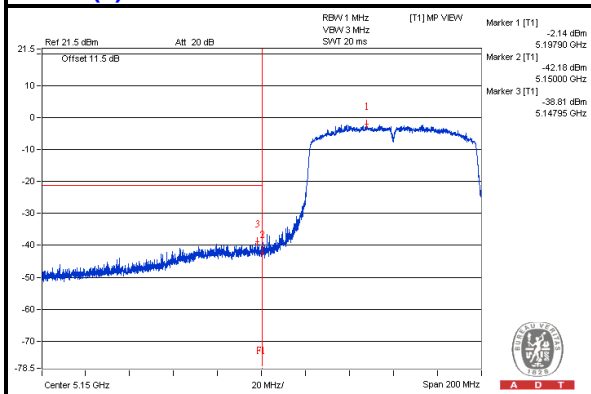
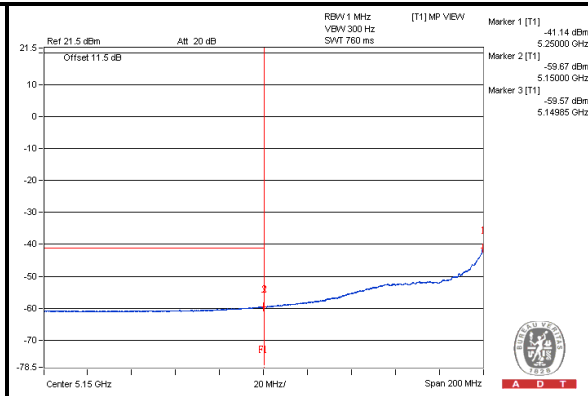
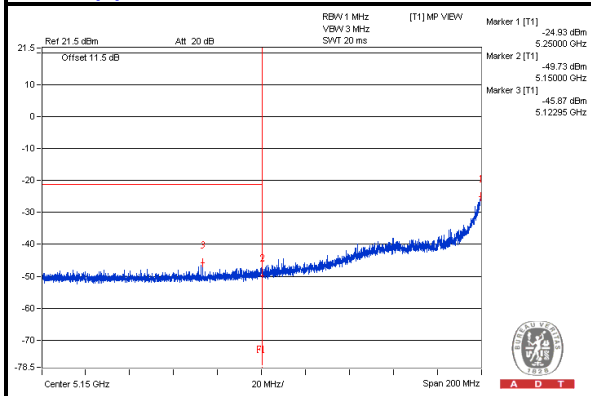
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5142.2 PK	65.18	74	-8.82	-41.78	-37.57	6.09	-30.08
2	5140.65 AV	50.89	54	-3.11	-52.62	-54.53	6.09	-44.37

Note :

$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain (0)

Chain (1)




A D T

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)
					Chain0	Chain1		
1	3528.125 PK	57.73	74	-16.27	-49.81	-47.2	7.77	-37.53
2	3525 AV	48.45	54	-5.55	-69.05	-54.74	7.77	-46.81
3	7053.125 PK	58.82	74	-15.18	-46.3	-48.4	7.77	-36.44
4	7053.125 AV	52.13	54	-1.87	-51.16	-63.23	7.77	-43.13
5	10584.375 PK	56.58	74	-17.42	-49.94	-49.03	7.77	-38.68
6	10581.25 AV	37.8	54	-16.2	-69.14	-67.5	7.77	-57.46
7	15860.375 PK	56.35	74	-17.65	-49.3	-50.13	7.77	-38.91
8	15863.25 AV	45.45	54	-8.55	-60.42	-60.77	7.77	-49.81

Note :

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

d = measurement distance in 3 meters.



A D T

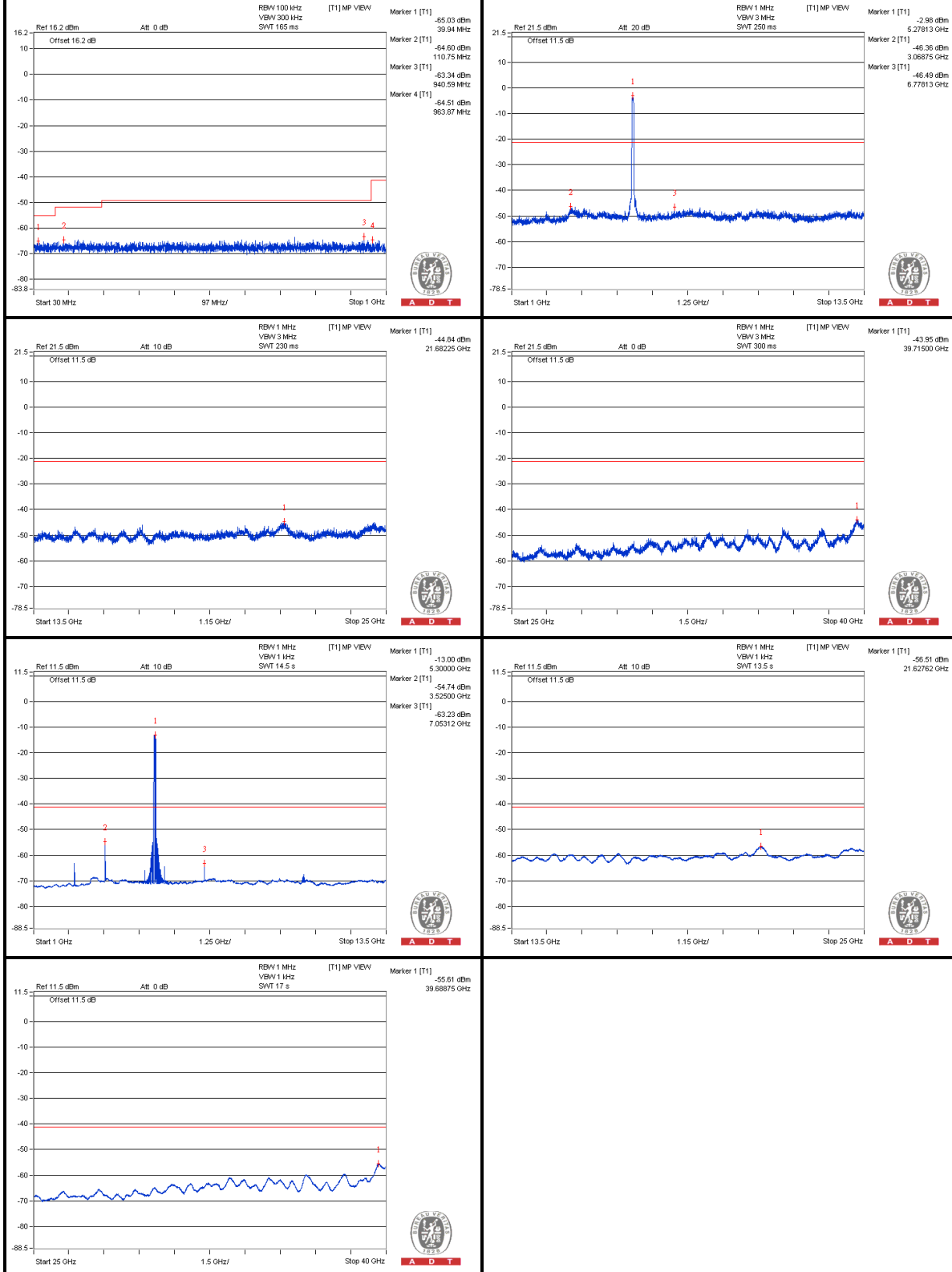
Chain (0)





A D T

Chain (1)



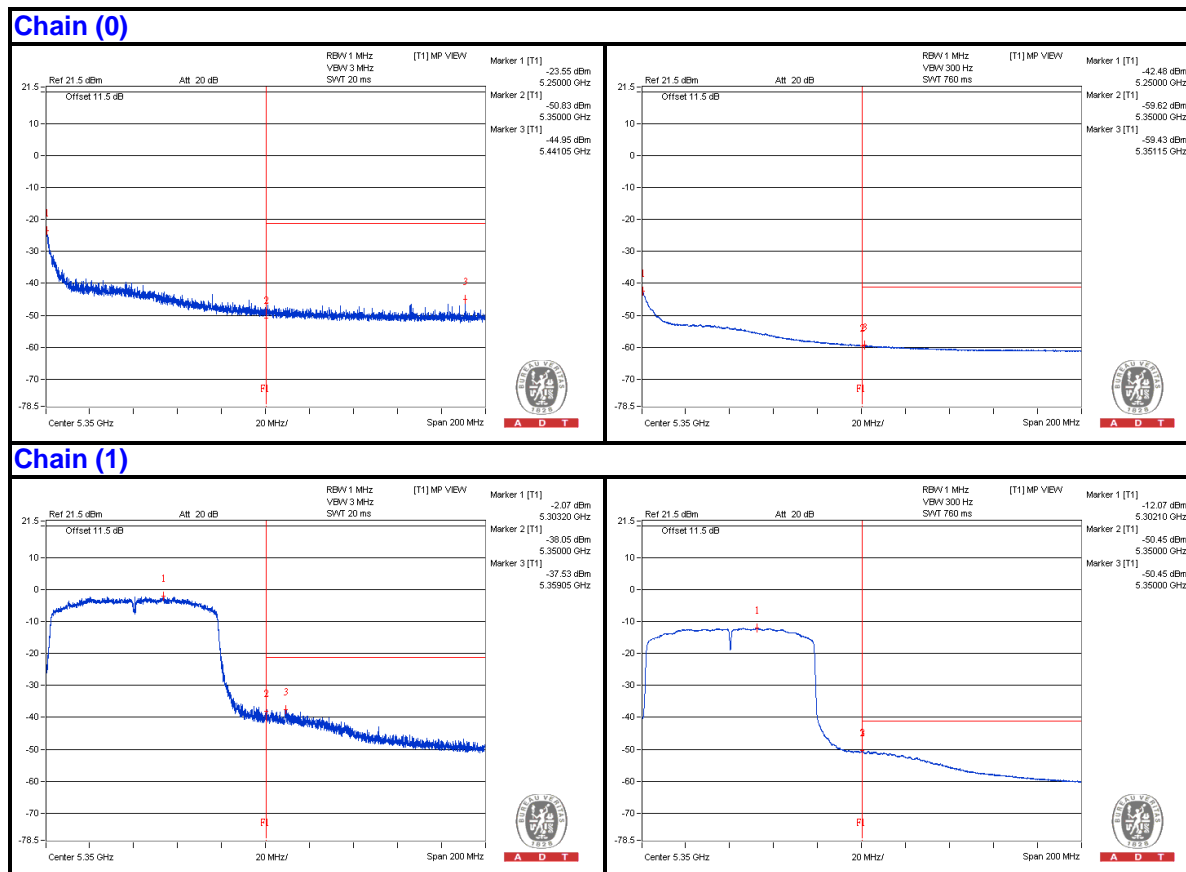
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5350.15 PK	65.56	74	-8.44	-40.18	-37.76	6.09	-29.7
2	5350 AV	52.91	54	-1.09	-50.45	-52.76	6.09	-42.35

Note :

$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.





A D T

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)
					Chain0	Chain1		
1	3687.5 PK	58.18	74	-15.82	-48.67	-47.17	7.77	-37.08
2	3684.375 AV	38.14	54	-15.86	-66.48	-70.04	7.77	-57.12
3	7371.875 PK	58.58	74	-15.42	-46.1	-49.44	7.77	-36.68
4	7375 AV	38.46	54	-15.54	-66.98	-68.28	7.77	-56.8
5	11050 PK	56.31	74	-17.69	-49.86	-49.61	7.77	-38.95
6	11059.375 AV	36.59	54	-17.41	-69.16	-69.77	7.77	-58.67
7	16584.875 PK	55.16	74	-18.84	-50.02	-51.95	7.77	-40.1
8	16587.75 AV	44.1	54	-9.9	-61.23	-62.8	7.77	-51.16

Note :

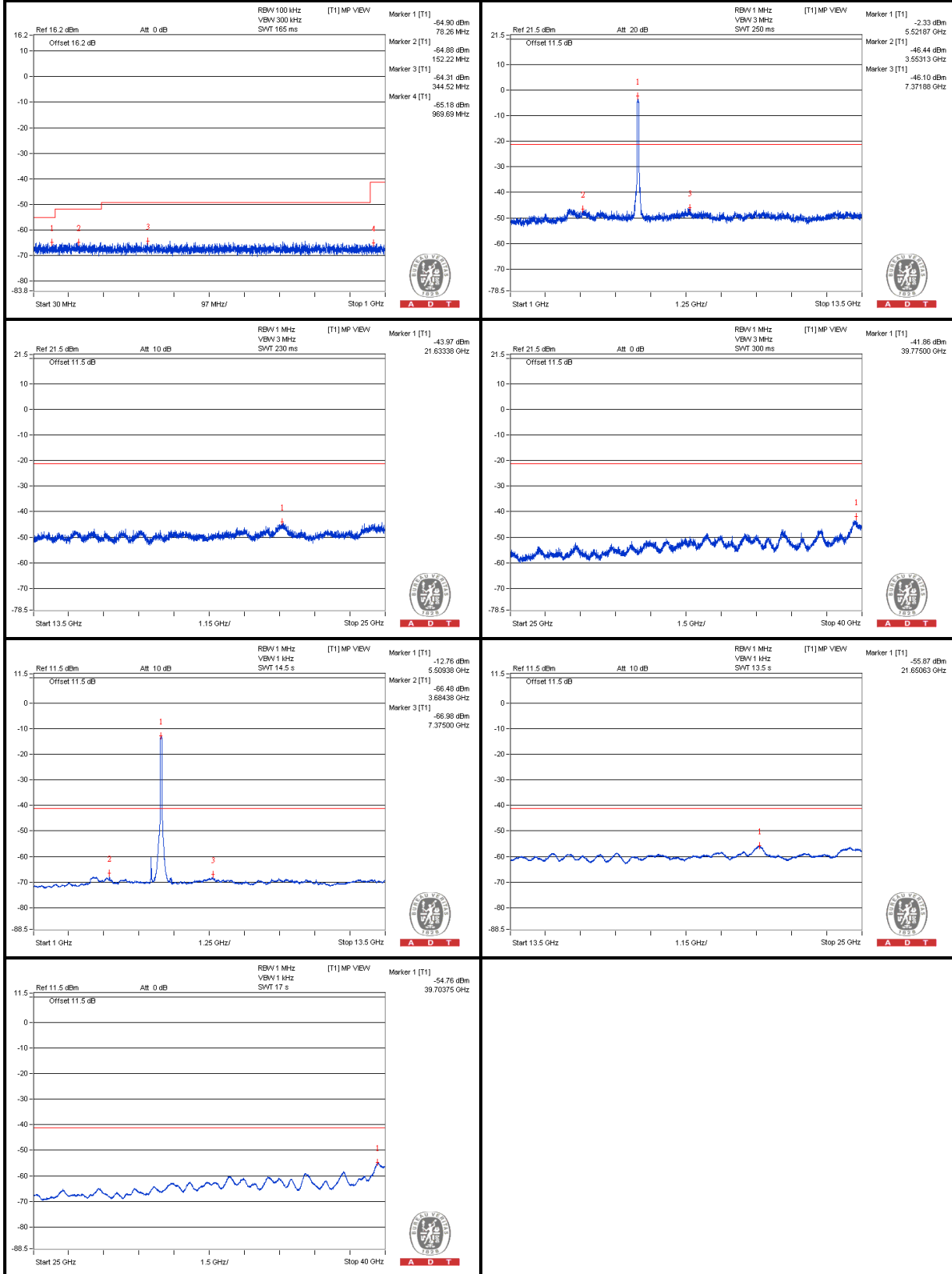
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



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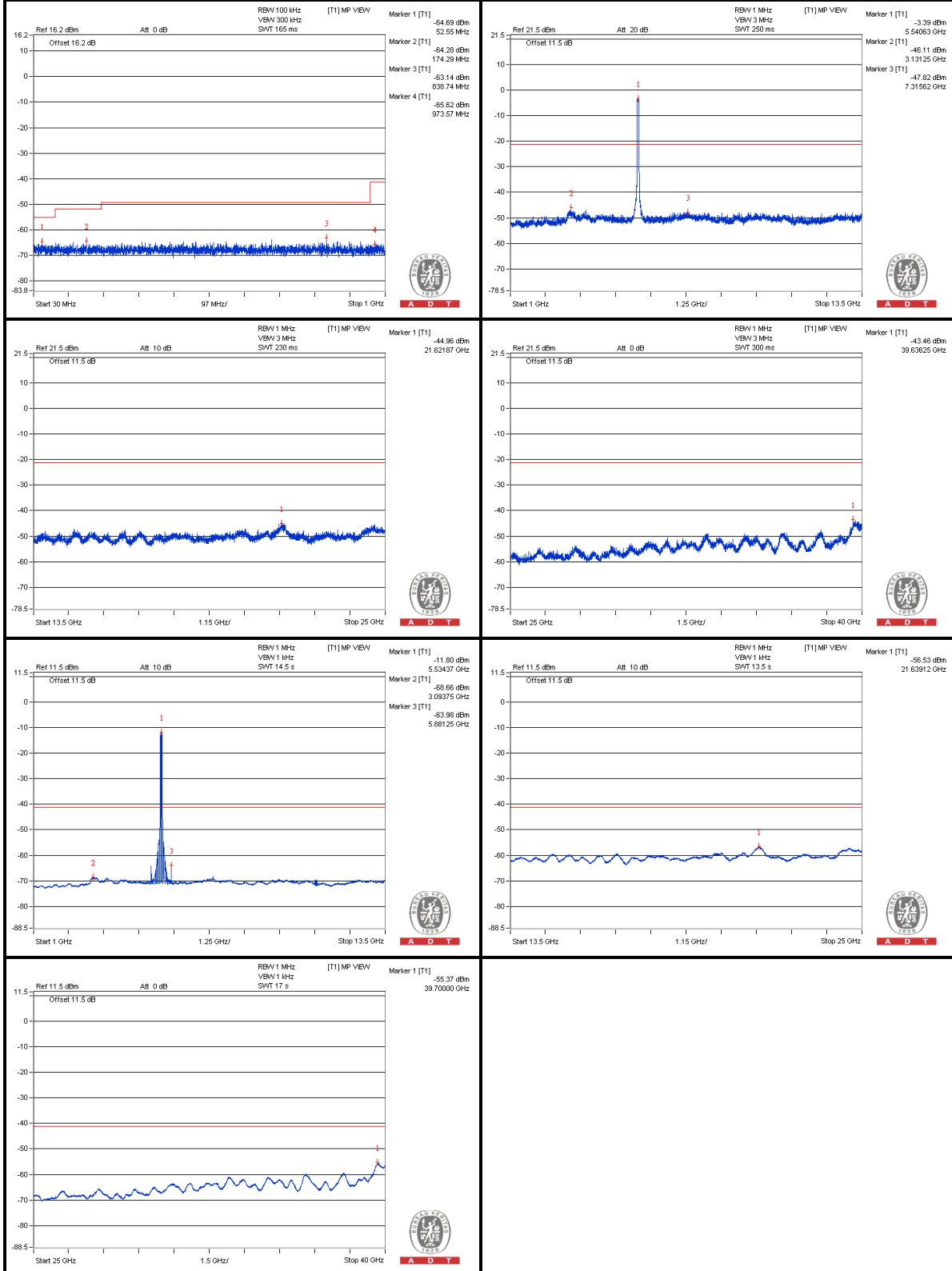
Chain (0)





A D T

Chain (1)



Bandedge table

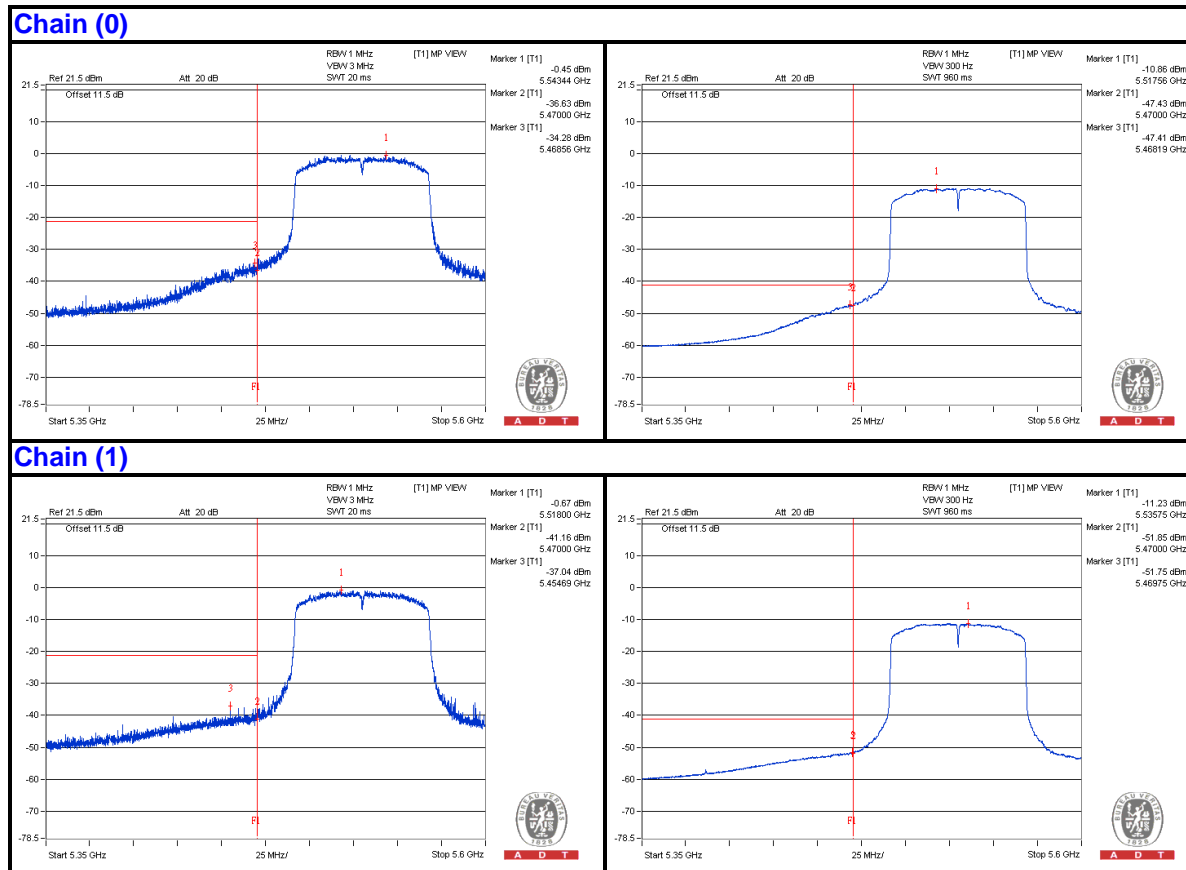
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5468.5625 PK	69.63	74	-4.37	-34.28	-40.77	7.77	-25.63
2	5468.1875 AV	56.96	54	* 2.96	-47.41	-51.83	7.77	-38.3

Note :

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

d = measurement distance in 3 meters.

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





A D T

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)
					Chain0	Chain1		
1	3740.625 PK	57.7	74	-16.3	-49.82	-47.24	7.77	-37.56
2	3740.625 AV	51.21	54	-2.79	-64.55	-52.06	7.77	-44.05
3	7481.25 PK	57.25	74	-16.75	-47.82	-50.03	7.77	-38.01
4	7481.25 AV	47.68	54	-6.32	-56.01	-63.83	7.77	-47.58
5	11228.125 PK	55.85	74	-18.15	-51.38	-49.26	7.77	-39.41
6	11221.875 AV	38.55	54	-15.45	-68.26	-66.84	7.77	-56.71
7	16832.125 PK	56.76	74	-17.24	-48.73	-49.9	7.77	-38.5
8	16835 AV	45.11	54	-8.89	-60.78	-61.09	7.77	-50.15

Note :

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

d = measurement distance in 3 meters.



A D T

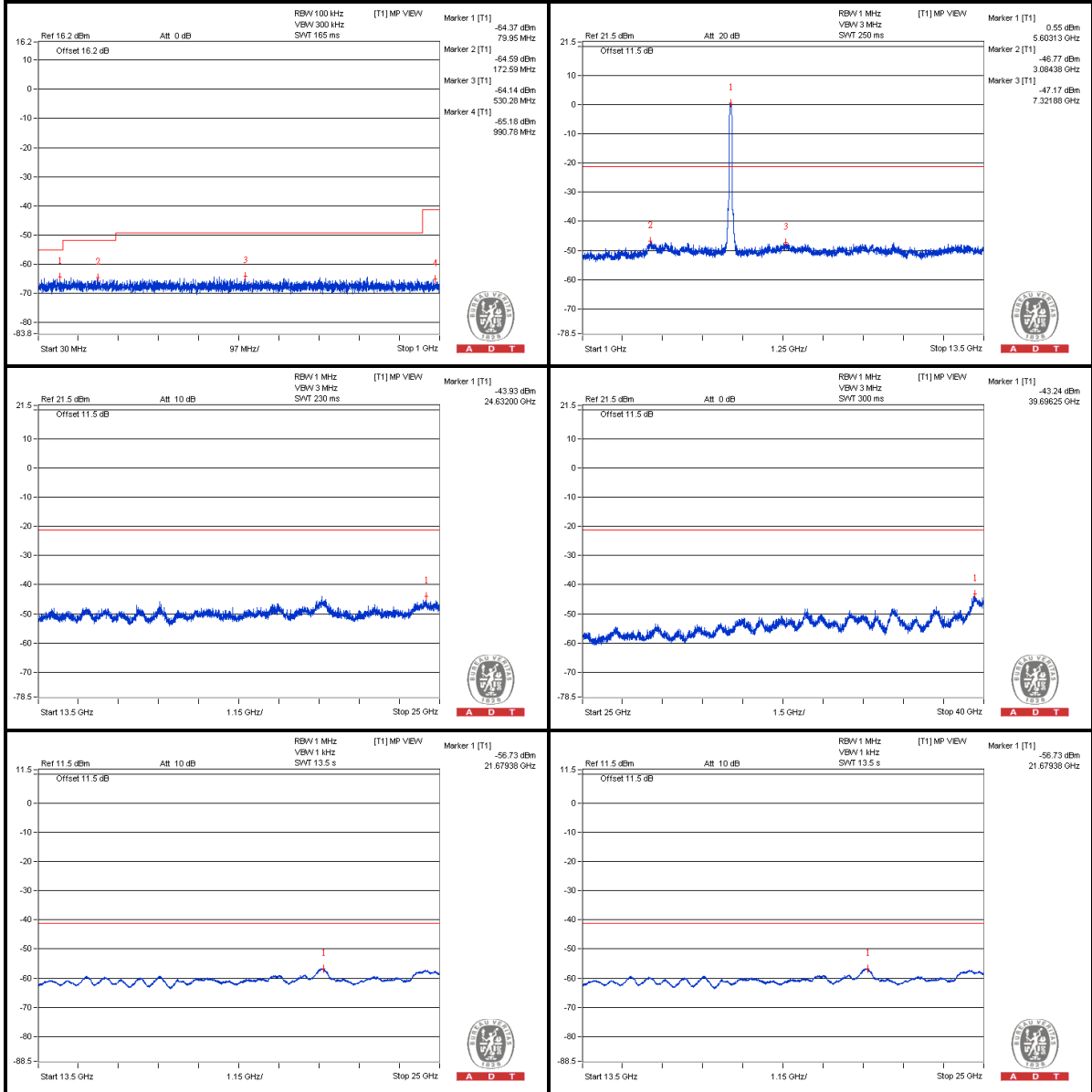
Chain (0)





A D T

Chain (1)



Bandedge table

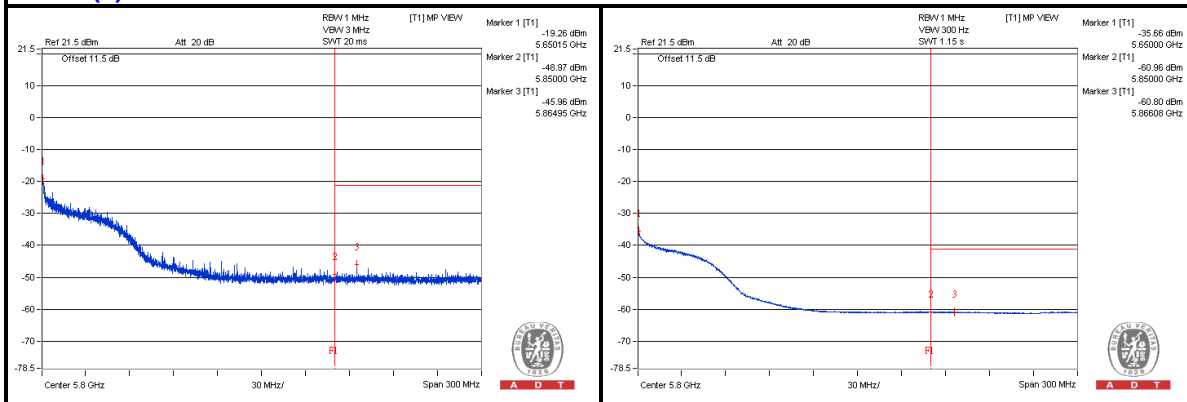
No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5727.175 PK	62.72	74	-11.28	-44.28	-42.53	7.77	-32.54
2	5725.075 AV	49.97	54	-4.03	-56.06	-56.09	7.77	-45.29

Note :

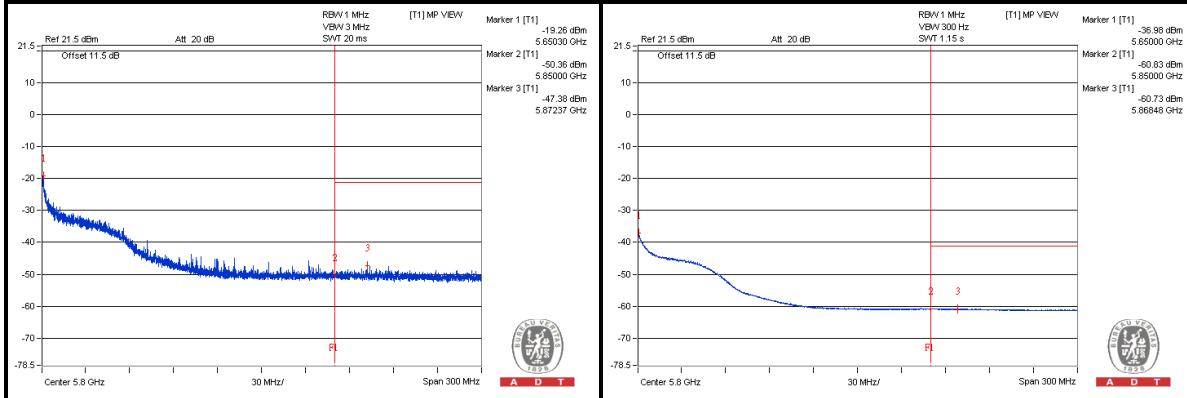
$$\text{Emission Level (dBUV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain (0)



Chain (1)





A D T

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)
					Chain0	Chain1		
1	3793.75 PK	58.79	74	-15.21	-49.08	-45.97	7.77	-36.47
2	3793.75 AV	51.52	54	-2.48	-70.27	-51.57	7.77	-43.74
3	7587.5 PK	57.17	74	-16.83	-47.8	-50.29	7.77	-38.09
4	7587.5 AV	48.64	54	-5.36	-55.15	-62.34	7.77	-46.62
5	11381.25 PK	55.75	74	-18.25	-50.47	-50.12	7.77	-39.51
6	11381.25 AV	37.39	54	-16.61	-69.08	-68.26	7.77	-57.87
7	17065 PK	56.44	74	-17.56	-49.63	-49.58	7.77	-38.82
8	17073.625 AV	45.53	54	-8.47	-60.48	-60.55	7.77	-49.73

Note :

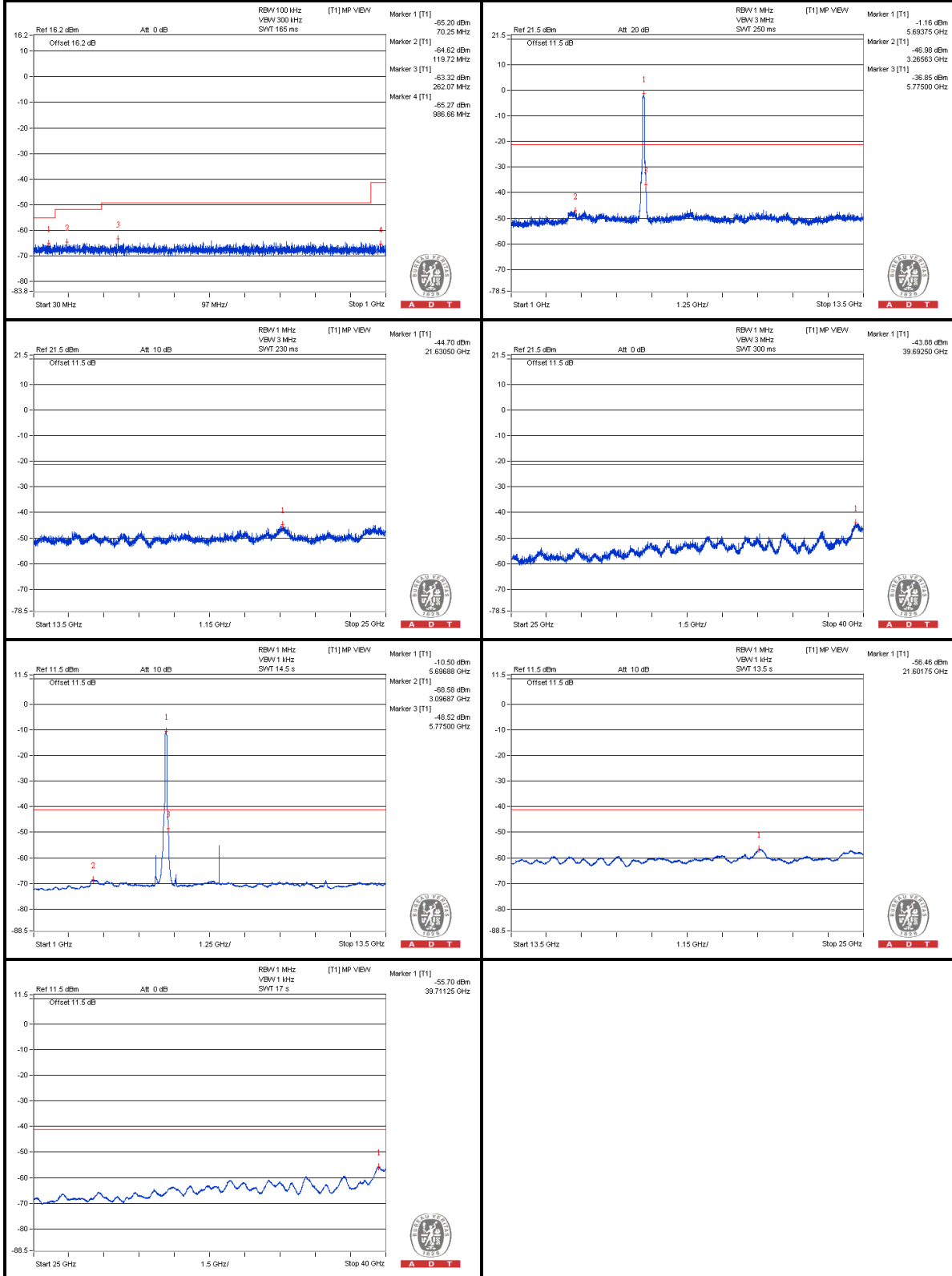
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.



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Chain (0)





A D T

Chain (1)





A D T

Bandedge table

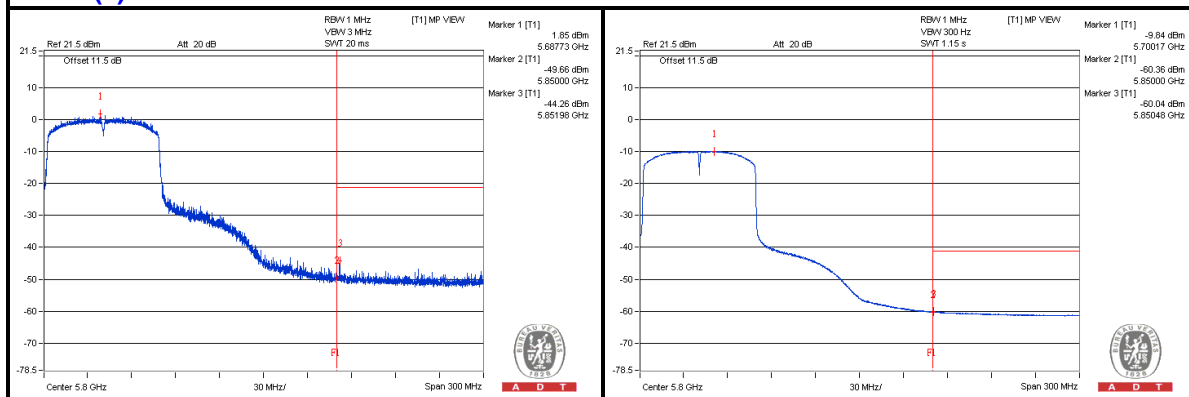
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5851.975 PK	59.65	74	-14.35	-44.26	-50.74	7.77	-35.61
2	5850.475 AV	45.84	54	-8.16	-60.04	-60.37	7.77	-49.42

Note :

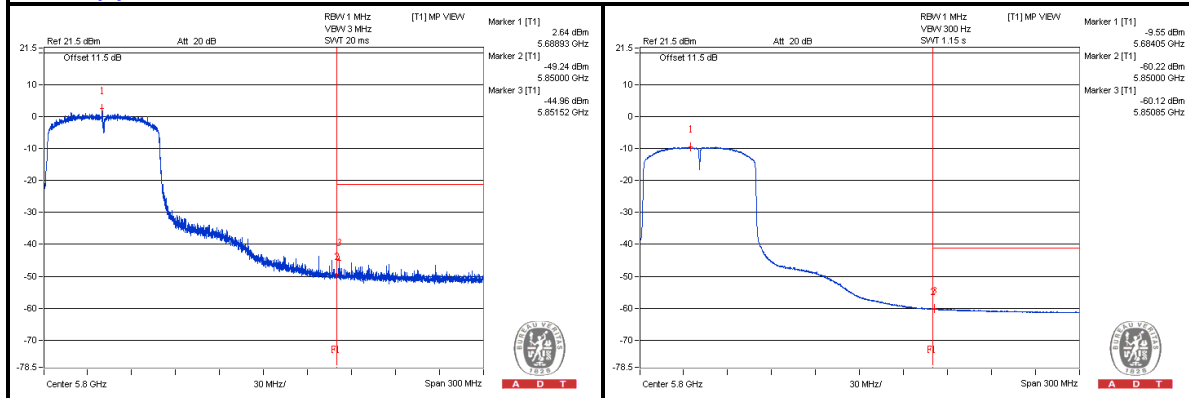
$$\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$$

d = measurement distance in 3 meters.

Chain (0)



Chain (1)





A D T

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)
					Chain0	Chain1		
1	3850 PK	58.78	74	-15.22	-49.59	-45.75	7.77	-36.48
2	3850 AV	53.93	54	-0.07	-60.95	-49.39	7.77	-41.33
3	7700 PK	57.06	74	-16.94	-48.61	-49.39	7.77	-38.2
4	7700 AV	47.04	54	-6.96	-56.18	-69.73	7.77	-48.22
5	11550 PK	55.01	74	-18.99	-52.04	-50.21	7.77	-40.25
6	11550 AV	36.92	54	-17.08	-69.89	-68.46	7.77	-58.34

Note :

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

d = measurement distance in 3 meters.



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Chain (0)





A D T

Chain (1)





A D T

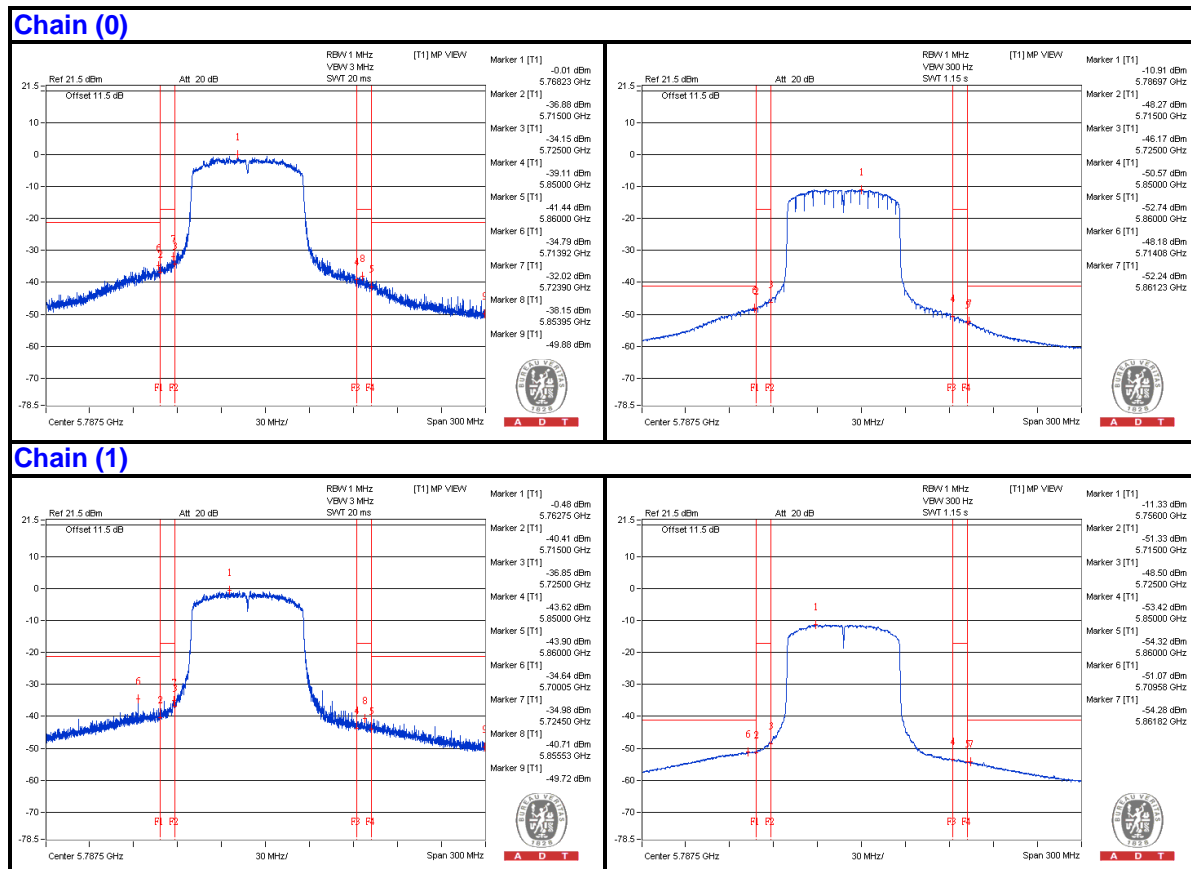
Bandedge table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5713.85 PK	69.71	74	-4.29	-35.43	-37.47	7.77	-25.55
2	5714.075 AV	56.61	54	* 2.61	-48.18	-51.19	7.77	-38.65
3	5723.9 PK	72.3	78.2	-5.9	-32.02	-36.63	7.77	-22.96
4	5853.95 PK	66.36	78.2	-11.84	-38.15	-42.08	7.77	-28.9
5	5860.7 PK	65.16	74	-8.84	-39.92	-42.12	7.77	-30.1
6	5861.225 AV	52.83	54	-1.17	-52.24	-54.47	7.77	-42.43

Note :

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

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



4.5 FREQUENCY STABILITY

4.5.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

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

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSP 40	100060	May 08, 2014	May 07, 2015
Temperature & Humidity Chamber GIANTFORCE	GTH-150-40-S P-AR	MAA0812-008	Jan. 13, 2014	Jan. 12, 2015

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Tested date : Oct. 17, 2014

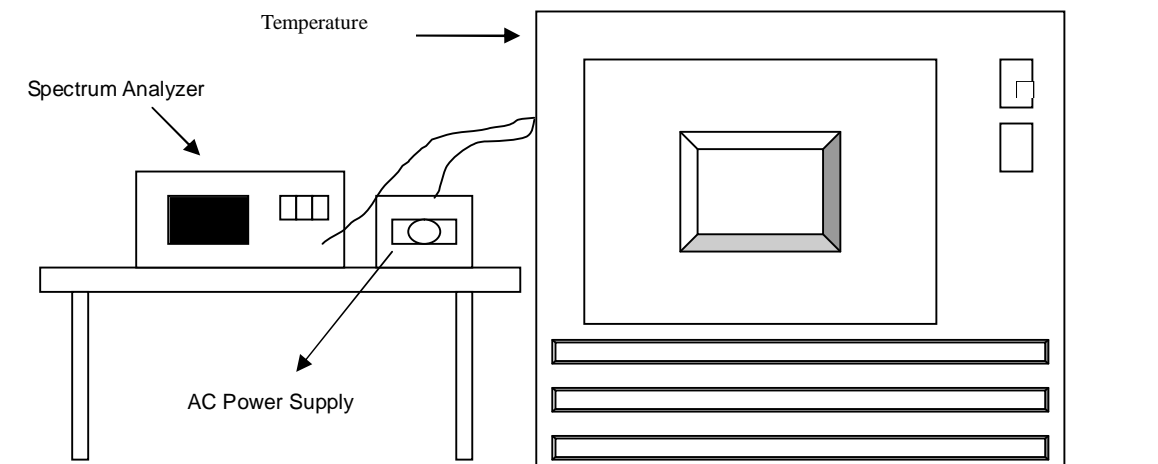
4.5.3 TEST PROCEDURE

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

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

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



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4.5.7 TEST RESULTS

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift
		(MHz)	%	(MHz)	%	(MHz)	%	(MHz)	%
50	120	5320.0188	0.00035	5320.0191	0.00036	5320.0146	0.00027	5320.0154	0.00029
40	120	5320.0118	0.00022	5320.0148	0.00028	5320.0153	0.00029	5320.0115	0.00022
30	120	5320.0178	0.00033	5320.0192	0.00036	5320.0139	0.00026	5320.0184	0.00035
20	120	5319.9803	-0.00037	5319.982	-0.00034	5319.982	-0.00034	5319.9798	-0.00038
10	120	5320.0014	0.00003	5320.0019	0.00004	5319.9997	-0.00001	5320.001	0.00002
0	120	5319.9972	-0.00005	5319.9989	-0.00002	5320.0003	0.00001	5319.998	-0.00004
-10	120	5320.0147	0.00028	5320.0124	0.00023	5320.0151	0.00028	5320.0157	0.00030
-20	120	5319.9754	-0.00046	5319.977	-0.00043	5319.9753	-0.00046	5319.9782	-0.00041
-30	120	5319.9824	-0.00033	5319.9833	-0.00031	5319.9852	-0.00028	5319.9854	-0.00027

FREQUENCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift
		(MHz)	%	(MHz)	%	(MHz)	%	(MHz)	%
20	138	5319.9803	-0.00037	5319.9826	-0.00033	5319.9815	-0.00035	5319.9798	-0.00038
	120	5319.9803	-0.00037	5319.982	-0.00034	5319.982	-0.00034	5319.9798	-0.00038
	102	5319.9813	-0.00035	5319.9818	-0.00034	5319.9826	-0.00033	5319.9789	-0.00040



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4.6 AC POWER LINE CONDUCTED EMISSION MEASUREMENT

4.6.1 LIMITS OF AC POWER LINE CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

- NOTE:**
- The lower limit shall apply at the transition frequencies.
 - The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS 30	100375	Apr. 29, 2014	Apr. 28, 2015
Line-Impedance Stabilization Network (for EUT) SCHWARZBECK	NSLK-8127	8127-522	Sep. 15, 2014	Sep. 14, 2015
Line-Impedance Stabilization Network (for Peripheral) ROHDE & SCHWARZ	ENV216	100071	Nov. 13, 2013	Nov. 12, 2014
RF Cable (JYEBAO)	5DFB	COCCAB-001	Mar. 10, 2014	Mar. 09, 2015
50 ohms Terminator	N/A	EMC-03	Sep. 22, 2014	Sep. 21, 2015
50 ohms Terminator	N/A	EMC-02	Oct. 01, 2013	Sep. 30, 2014
Software ADT	BV ADT_Cond_V7.3.7. 3	NA	NA	NA

Note:

- The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- The test was performed in Shielded Room No. C.
- The VCCI Con C Registration No. is C-3611.
- Tested Date: Sep. 24, 2014

4.6.3 TEST PROCEDURES

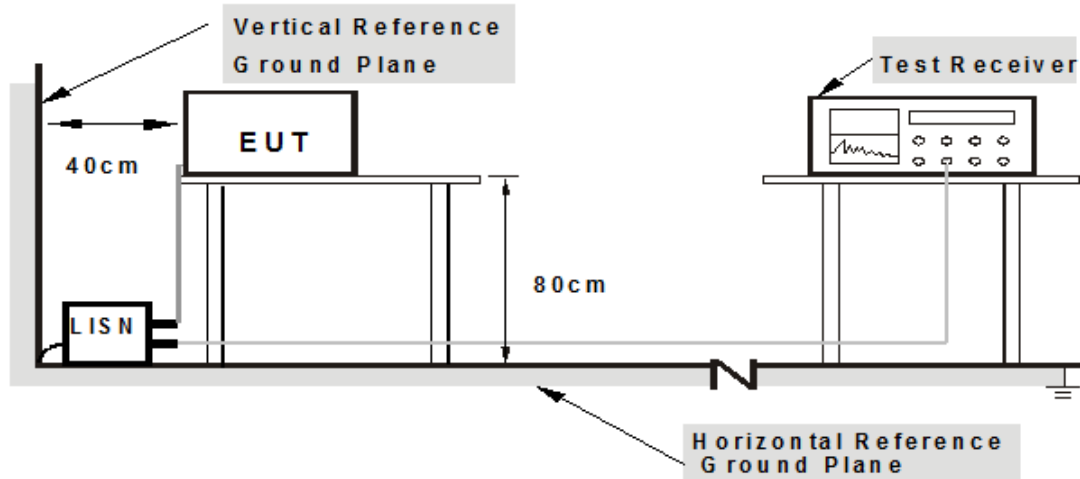
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN.
- b. The two LISNs provide 50 ohm/ 50uH of coupling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

NOTE: The resolution bandwidth of test receiver is 9kHz for Quasi-peak detection (QP) & Average detection (AV).

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 TEST SETUP



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

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

4.6.6 EUT OPERATING CONDITIONS

Same as the 4.4.7



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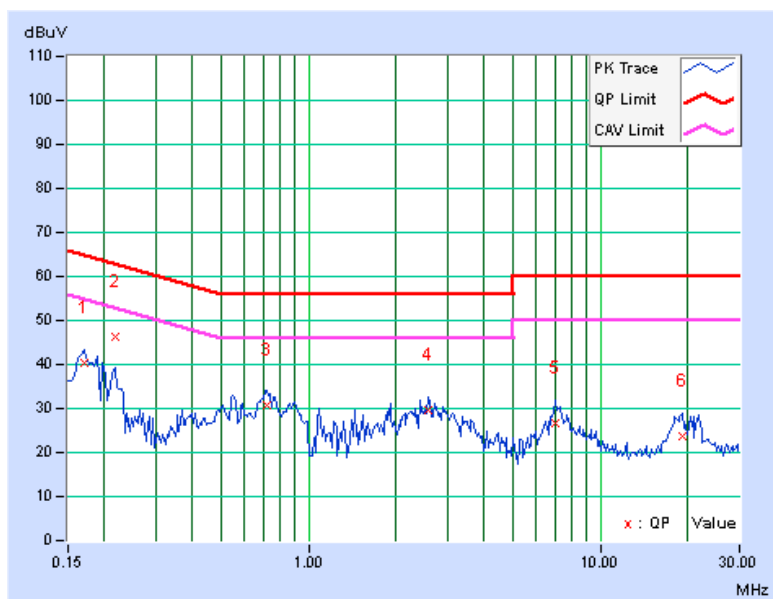
4.6.7 TEST RESULTS

PHASE	Line (L)	DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.16953	0.07	40.27	27.48	40.34	27.55	64.98
2	0.21641	0.07	46.09	34.71	46.16	34.78	62.96	52.96	-16.79	-18.17
3	0.72422	0.11	30.73	21.38	30.84	21.49	56.00	46.00	-25.16	-24.51
4	2.57813	0.20	29.43	21.51	29.63	21.71	56.00	46.00	-26.37	-24.29
5	7.01953	0.36	26.33	18.52	26.69	18.88	60.00	50.00	-33.31	-31.12
6	19.19531	0.69	23.12	17.31	23.81	18.00	60.00	50.00	-36.19	-32.00

REMARKS:

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





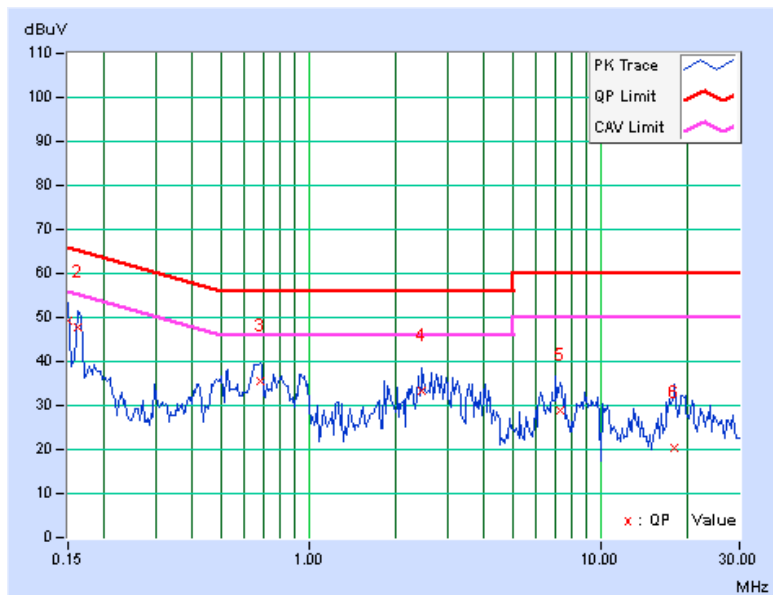
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PHASE	Neutral (N)	DETECTOR FUNCTION	Quasi-Peak (QP) / Average (AV)
--------------	-------------	--------------------------	--------------------------------

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
	[MHz]	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.08	49.14	30.92	49.22	31.00	66.00	56.00	-16.78	-25.00
2	0.16172	0.07	47.63	31.73	47.70	31.80	65.38	55.38	-17.67	-23.57
3	0.68125	0.11	35.51	18.88	35.62	18.99	56.00	46.00	-20.38	-27.01
4	2.45703	0.20	33.23	22.11	33.43	22.31	56.00	46.00	-22.57	-23.69
5	7.24609	0.36	28.53	19.16	28.89	19.52	60.00	50.00	-31.11	-30.48
6	17.95703	0.65	19.67	11.93	20.32	12.58	60.00	50.00	-39.68	-37.42

REMARKS:

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



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



6. INFORMATION ON THE TESTING LABORATORIES

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

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

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC/RF/Telecom Lab:

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Web Site: www.bureauveritas-adt.com

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



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7.APPENDIX A - RADIATED EMISSION MEASUREMENT

7.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

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

NOTE:

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



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7.1.2 TEST INSTRUMENTS

Below 1GHz test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
MXE EMI Receiver Agilent	N9038A	MY51210105	July 21, 2014	July 20, 2015
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-03	Nov. 13, 2013	Nov. 12, 2014
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-360	Feb. 26, 2014	Feb. 25, 2015
RF Cable	NA	CHGCAB_001	Oct. 05, 2013	Oct. 04, 2014
Horn_Antenna AISI	AIH.8018	0000320091110	Aug. 27, 2014	Aug. 26, 2015
Pre-Amplifier Agilent	8449B	3008A02578	June 24, 2014	June 23, 2015
RF Cable	NA	131205 131214 SNMY23684/4	Jan. 17, 2014	Jan. 16, 2015
Spectrum Analyzer R&S	FSV40	100964	July 05, 2014	July 04, 2015
Pre-Amplifier SPACEK LABS	SLKKa-48-6	9K16	Nov. 13, 2013	Nov. 12, 2014
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Aug. 26, 2014	Aug. 25, 2015
RF Cable	NA	RF104-121 RF104-204	Dec. 12, 2013	Dec. 11, 2014
Antenna Tower & Turn Table CT	NA	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in 966 Chamber No. G.
4. The FCC Site Registration No. is 966073.
5. The VCCI Site Registration No. is G-137.
6. The CANADA Site Registration No. is IC 7450H-2.
7. Tested Date: Aug. 27, 2014



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Above 1GHz test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
MXE EMI Receiver Agilent	N9038A	MY50010156	Aug. 11, 2014	Aug. 10, 2015
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-04	Nov. 13, 2013	Nov. 12, 2014
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Feb. 27, 2014	Feb. 26, 2015
RF Cable	NA	CHHCAB_001	Oct. 06, 2013	Oct. 05, 2014
Horn_Antenna AISI	AIH.8018	0000220091110	Aug. 26, 2014	Aug. 25, 2015
Pre-Amplifier Agilent	8449B	3008A01923	Oct. 29, 2013	Oct. 28, 2014
RF Cable	NA	131206 131215 SNMY23685/4	Jan. 17, 2014	Jan. 16, 2015
Spectrum Analyzer R&S	FSV40	100964	July 05, 2014	July 04, 2015
Pre-Amplifier SPACEK LABS	SLKKa-48-6	9K16	Nov. 13, 2013	Nov. 12, 2014
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Aug. 26, 2014	Aug. 25, 2015
RF Cable	NA	RF104-121 RF104-204	Dec. 12, 2013	Dec. 11, 2014
Software	ADT_Radiated _V8.7.07	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3 The test was performed in 966 Chamber No. H.
4. The FCC Site Registration No. is 797305.
- 5 The CANADA Site Registration No. is IC 7450H-3.
- 6 Tested Date: Aug. 28, 2014



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7.1.3 TEST PROCEDURES

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

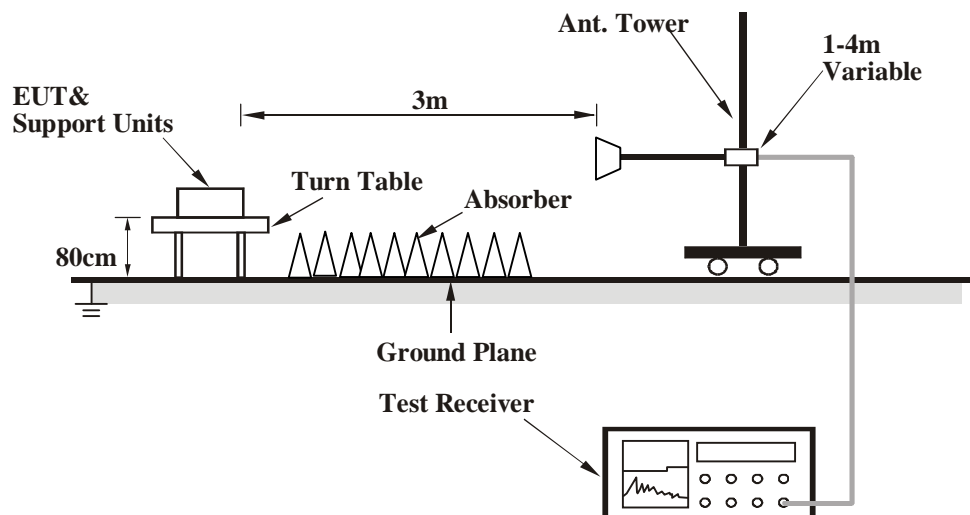
NOTE:

1. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

7.1.4 DEVIATION FROM TEST STANDARD

No deviation

7.1.5 TEST SETUP



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

7.1.6 EUT OPERATING CONDITIONS

1. Connect the EUT with the support unit A (Notebook Computer) which is placed on a testing table.
2. The communication partner run test program “QCRT Version3.0 29.0” to enable EUT under transmission/receiving condition continuously at specific channel frequency.

7.1.1 TEST RESULTS (MODE 1)

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

802.11a

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3883.33	63.6 PK	74.0	-10.4	1.70 H	355	62.19	1.41
2	3883.33	44.2 AV	54.0	-9.8	1.70 H	355	42.79	1.41
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3883.33	58.3 PK	74.0	-15.7	1.45 V	219	56.89	1.41
2	3883.33	46.8 AV	54.0	-7.2	1.45 V	219	45.39	1.41

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

802.11ac VHT20

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3883.33	62.4 PK	74.0	-11.6	1.69 H	342	60.99	1.41
2	3883.33	44.0 AV	54.0	-10.0	1.69 H	342	42.59	1.41
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3883.33	57.6 PK	74.0	-16.4	1.48 V	223	56.19	1.41
2	3883.33	45.1 AV	54.0	-8.9	1.48 V	223	43.69	1.41

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

802.11ac VHT40

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	67.1 PK	74.0	-6.9	1.09 H	133	60.31	6.79
2	5350.00	48.7 AV	54.0	-5.3	1.09 H	133	41.91	6.79

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	68.3 PK	74.0	-5.7	1.02 V	217	61.51	6.79
2	5350.00	49.0 AV	54.0	-5.0	1.02 V	217	42.21	6.79

REMARKS:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level – Limit value



A D T

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	63.4 PK	74.0	-10.6	1.21 H	302	56.22	7.18
2	#5470.00	47.6 AV	54.0	-6.4	1.21 H	302	40.42	7.18

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	64.5 PK	74.0	-9.5	1.08 V	83	57.32	7.18
2	#5470.00	50.5 AV	54.0	-3.5	1.08 V	83	43.32	7.18

REMARKS:

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



A D T

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	64.2 PK	74.0	-9.8	1.10 H	317	55.83	8.37
2	#5715.00	50.6 AV	54.0	-3.4	1.10 H	317	42.23	8.37

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	66.2 PK	74.0	-7.8	1.22 V	262	57.83	8.37
2	#5715.00	50.9 AV	54.0	-3.1	1.22 V	262	42.53	8.37

REMARKS:

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



A D T

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3863.33	63.3 PK	74.0	-10.7	1.65 H	347	61.97	1.33
2	3863.33	44.0 AV	54.0	-10.0	1.65 H	347	42.67	1.33

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3863.33	57.8 PK	74.0	-16.2	1.40 V	198	56.47	1.33
2	3863.33	45.6 AV	54.0	-8.4	1.40 V	198	44.27	1.33

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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802.11ac VHT80

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	61.4 PK	74.0	-12.6	1.22 H	300	54.22	7.18
2	#5470.00	48.4 AV	54.0	-5.6	1.22 H	300	41.22	7.18

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	62.0 PK	74.0	-12.0	1.00 V	34	54.82	7.18
2	#5470.00	49.5 AV	54.0	-4.5	1.00 V	34	42.32	7.18

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	60.3 PK	74.0	-13.7	1.09 H	319	52.50	7.80
2	#5715.00	46.9 AV	54.0	-7.1	1.09 H	319	39.10	7.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	64.5 PK	74.0	-9.5	1.22 V	264	56.70	7.80
2	#5715.00	50.6 AV	54.0	-3.4	1.22 V	264	42.80	7.80

REMARKS:

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



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7.1.2 TEST RESULTS (MODE 2)

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

802.11a

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3883.33	64.2 PK	74.0	-9.8	1.52 H	264	62.79	1.41
2	3883.33	45.3 AV	54.0	-8.7	1.52 H	264	43.89	1.41
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3883.33	58.6 PK	74.0	-15.4	1.31 V	195	57.19	1.41
2	3883.33	47.1 AV	54.0	-6.9	1.31 V	195	45.69	1.41

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

802.11ac VHT20

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3883.33	63.8 PK	74.0	-10.2	1.43 H	275	62.39	1.41
2	3883.33	45.0 AV	54.0	-9.0	1.43 H	275	43.59	1.41
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3883.33	57.7 PK	74.0	-16.3	1.28 V	206	56.29	1.41
2	3883.33	46.4 AV	54.0	-7.6	1.28 V	206	44.99	1.41

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

802.11ac VHT40

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	60.3 PK	74.0	-13.7	1.72 H	342	53.51	6.79
2	5350.00	46.3 AV	54.0	-7.7	1.72 H	342	39.51	6.79
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	62.7 PK	74.0	-11.3	1.00 V	260	55.91	6.79
2	5350.00	49.6 AV	54.0	-4.4	1.00 V	260	42.81	6.79

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	65.7 PK	74.0	-8.3	1.68 H	335	58.52	7.18
2	#5470.00	46.1 AV	54.0	-7.9	1.68 H	335	38.92	7.18

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	67.9 PK	74.0	-6.1	1.16 V	267	60.72	7.18
2	#5470.00	50.0 AV	54.0	-4.0	1.16 V	267	42.82	7.18

REMARKS:

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



A D T

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	56.4 PK	74.0	-17.6	1.25 H	90	48.03	8.37
2	#5715.00	46.3 AV	54.0	-7.7	1.25 H	90	37.93	8.37

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	68.1 PK	74.0	-5.9	1.11 V	277	59.73	8.37
2	#5715.00	50.6 AV	54.0	-3.4	1.11 V	277	42.23	8.37

REMARKS:

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

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3863.33	58.4 PK	74.0	-15.6	1.63 H	179	57.07	1.33
2	3863.33	46.0 AV	54.0	-8.0	1.63 H	179	44.67	1.33
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3863.33	60.3 PK	74.0	-13.7	1.25 V	211	58.97	1.33
2	3863.33	47.4 AV	54.0	-6.6	1.25 V	211	46.07	1.33

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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802.11ac VHT80

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	56.5 PK	74.0	-17.5	1.13 H	76	49.32	7.18
2	#5470.00	44.5 AV	54.0	-9.5	1.13 H	76	37.32	7.18

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	65.8 PK	74.0	-8.2	1.15 V	276	58.62	7.18
2	#5470.00	51.0 AV	54.0	-3.0	1.15 V	276	43.82	7.18

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	55.9 PK	68.2	-12.3	1.25 H	89	47.53	8.37

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	64.6 PK	68.2	-3.6	1.12 V	276	56.23	8.37

REMARKS:

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



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8.APPENDIX B - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

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