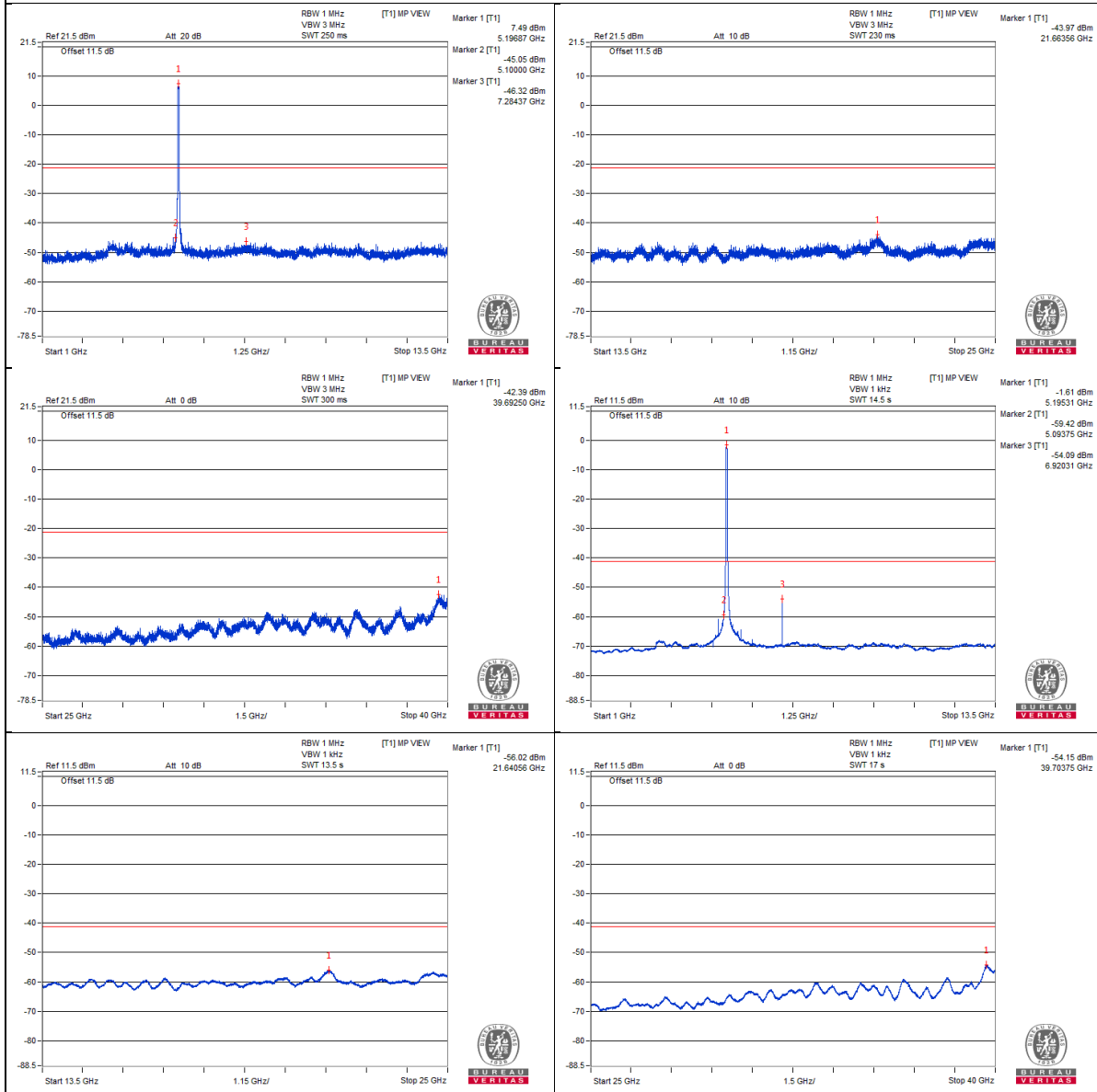


Chain 1



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	5148.97 PK	72.56	74	-1.44	-31.75	-38.47	8.21	-22.7
2	5149.72 AV	55.65	54	* 1.65	-51.36	-50.36	8.21	-39.61

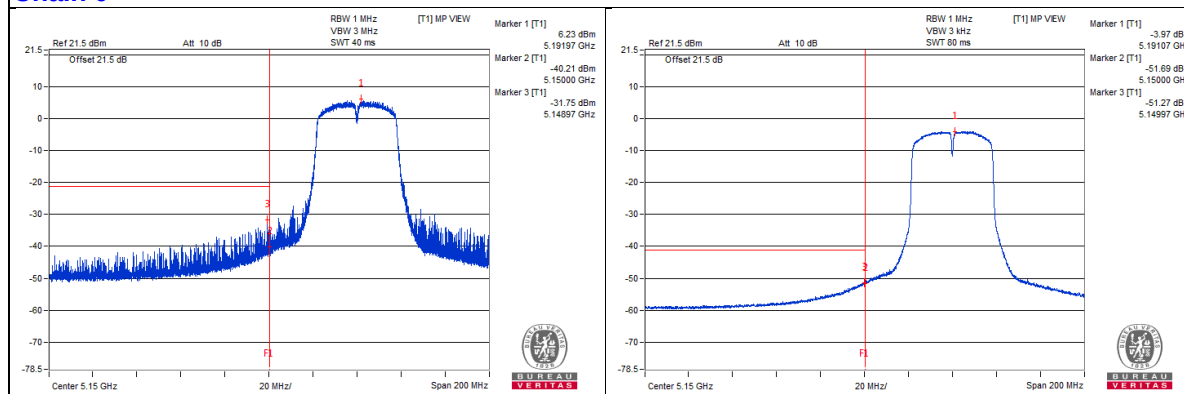
Note :

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

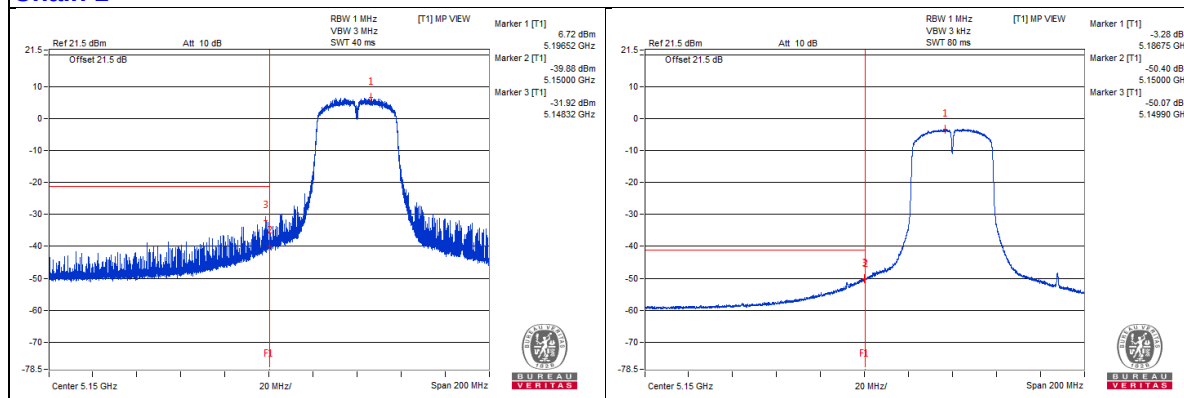
d = measurement distance in 3 meters.

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

Chain 0



Chain 1



802.11ac (VHT40) - Channel 46

Conducted spurious emission table

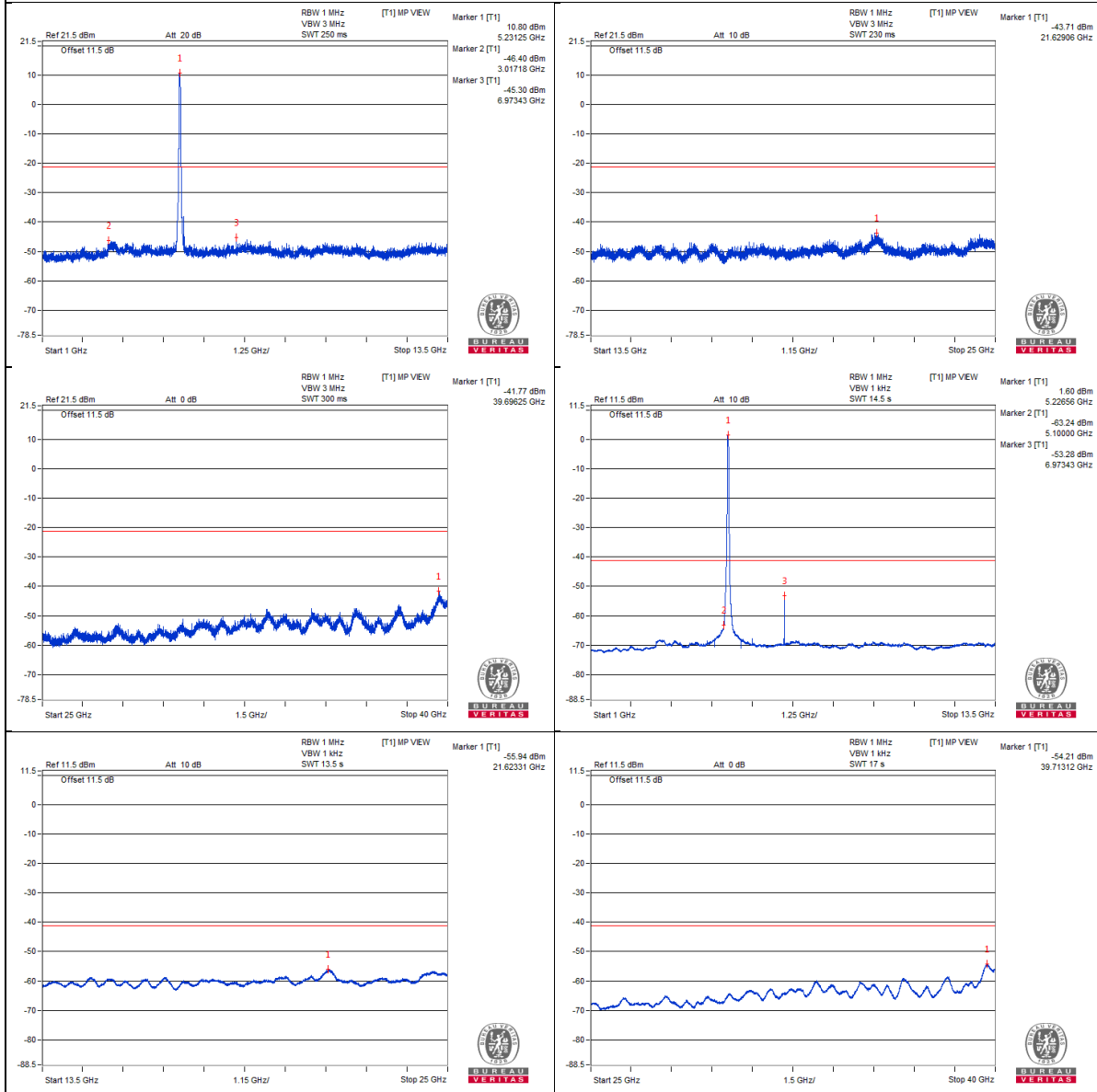
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3506.25 PK	57.35	74	-16.65	-50.18	-48.29	8.21	-37.91
2	3506.25 AV	36.82	54	-17.18	-69.84	-69.48	8.21	-58.44
3	6973.43 PK	59.66	68.2	-8.54	-45.3	-49.18	8.21	-35.6
4	10456.25 PK	56.89	68.2	-11.31	-48.69	-50.72	8.21	-38.37
5	15693.62 PK	56.51	74	-17.49	-51.04	-49.12	8.21	-38.75
6	15685 AV	45.32	54	-8.68	-61.07	-61.26	8.21	-49.94

Note :

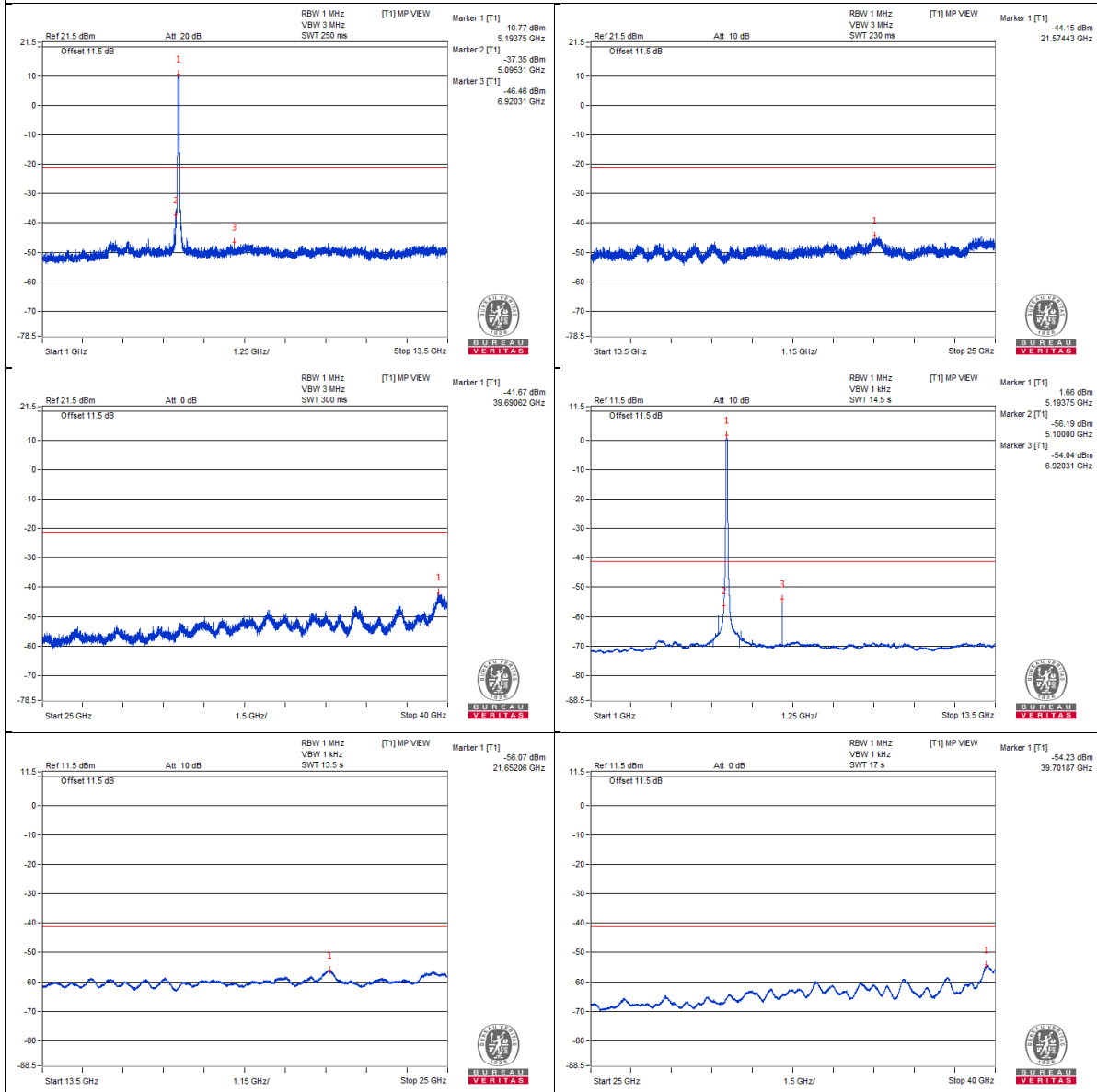
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

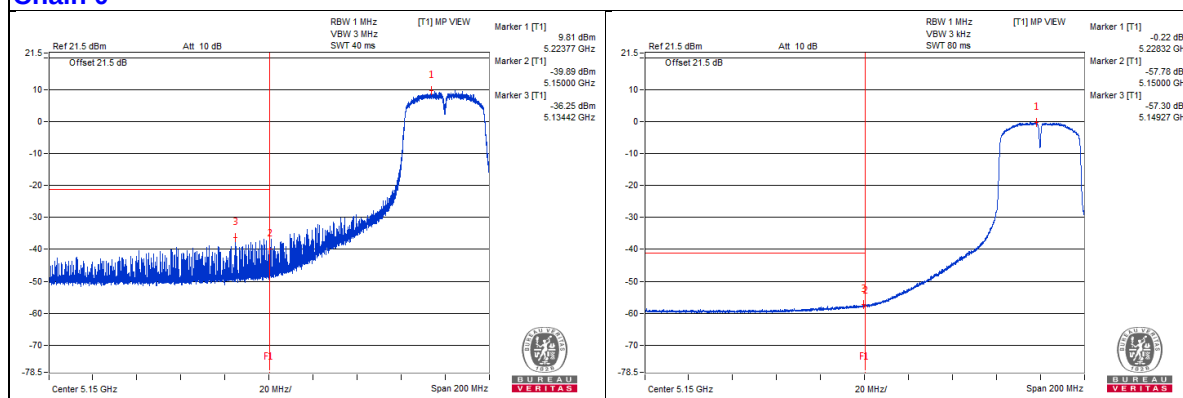
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5147.4 PK	68.21	74	-5.79	-38.89	-37.72	8.21	-27.05
2	5149.4 AV	49.09	54	-4.91	-57.38	-57.4	8.21	-46.17

Note :

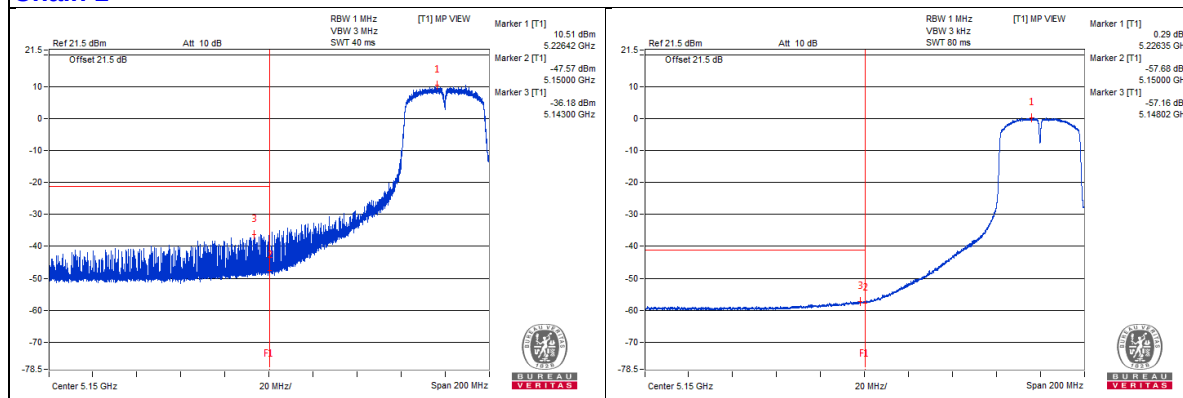
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



802.11ac (VHT40) - Channel 54

Conducted spurious emission table

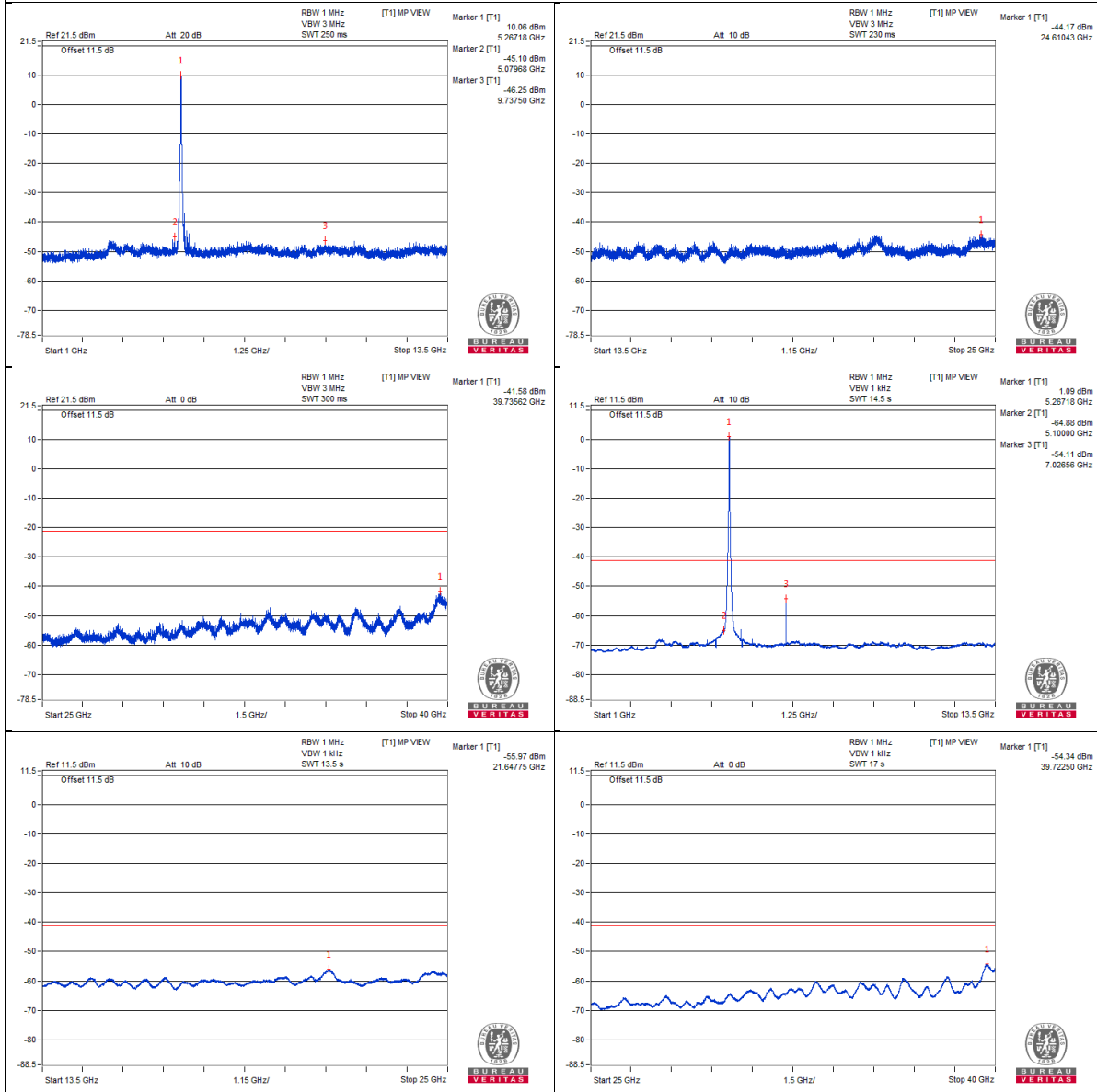
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3512.5 PK	57.98	74	-16.02	-47.65	-49.57	8.21	-37.28
2	3532.81 AV	37.32	54	-16.68	-69.1	-69.23	8.21	-57.94
3	7026.56 PK	58.97	68.2	-9.23	-46.8	-48.35	8.21	-36.29
4	10545.31 PK	57.97	68.2	-10.23	-48.24	-48.8	8.21	-37.29
5	15825.87 PK	57.62	74	-16.38	-48.79	-48.93	8.21	-37.64
6	15820.12 AV	46.54	54	-7.46	-60.04	-59.84	8.21	-48.72

Note :

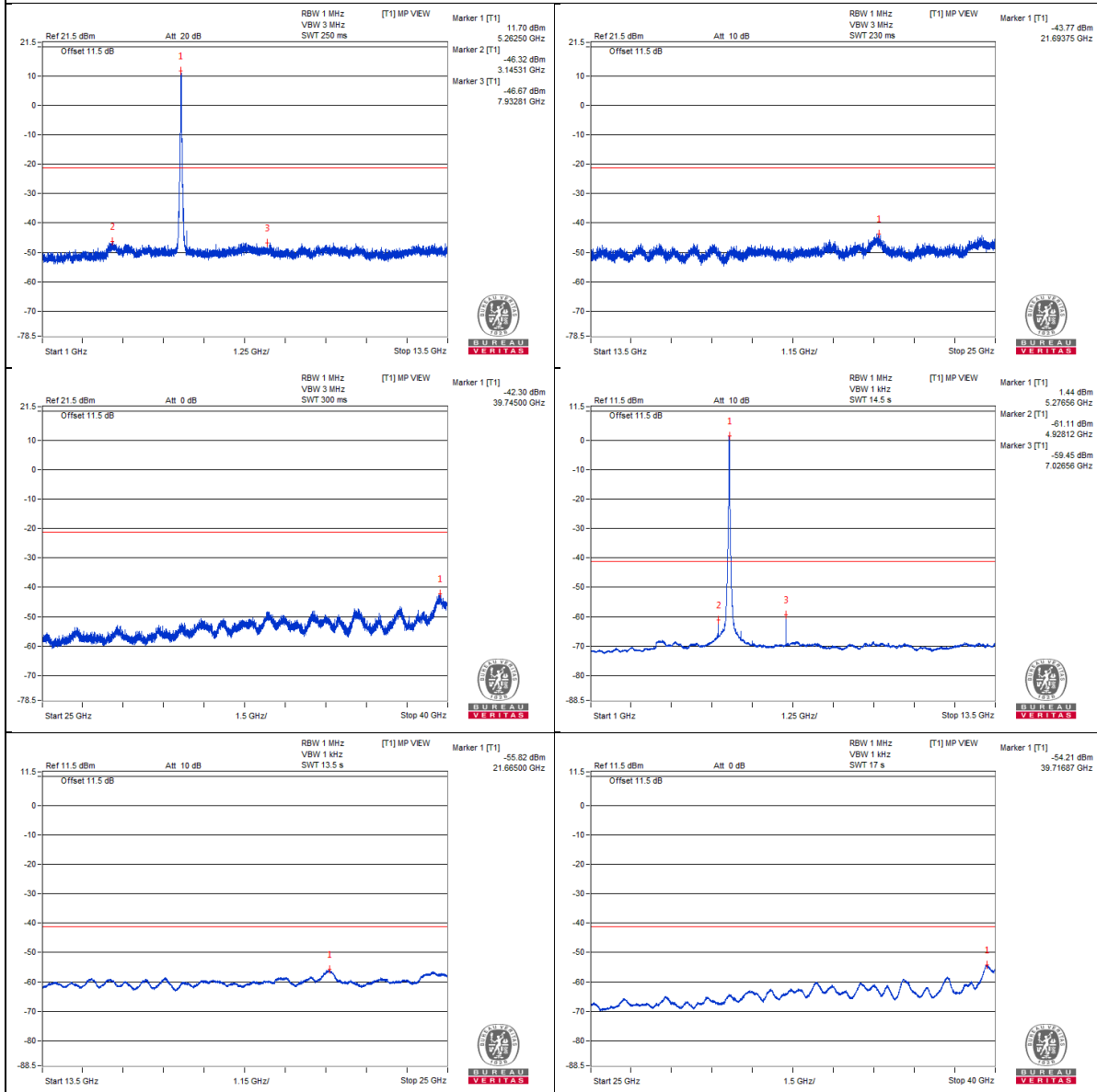
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

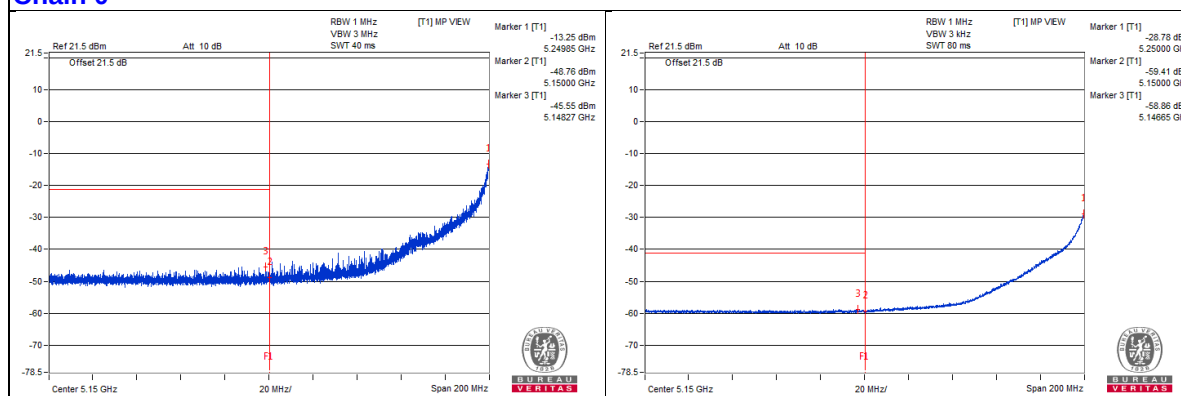
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5351.55 PK	69.49	74	-4.51	-46.86	-34.21	8.21	-25.77
2	5350.47 AV	50.13	54	-3.87	-56.24	-56.47	8.21	-45.13

Note :

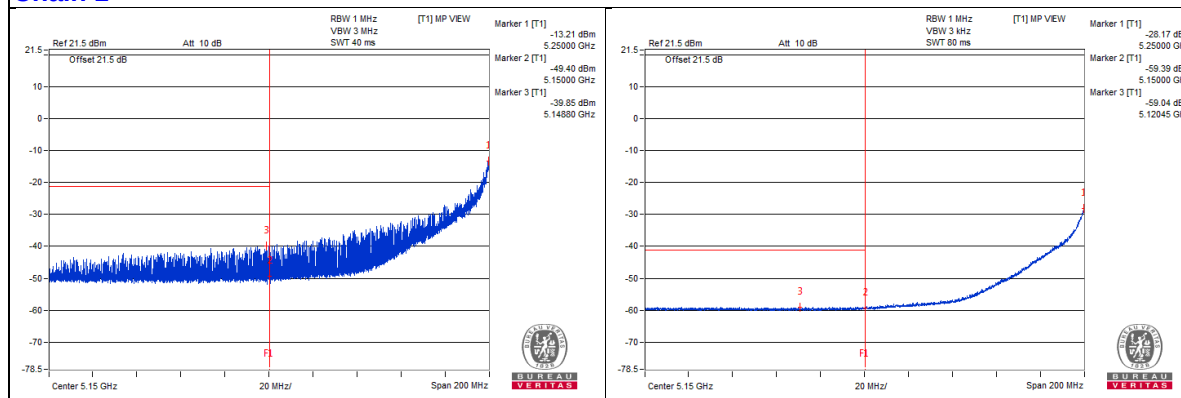
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



802.11ac (VHT40) - Channel 62

Conducted spurious emission table

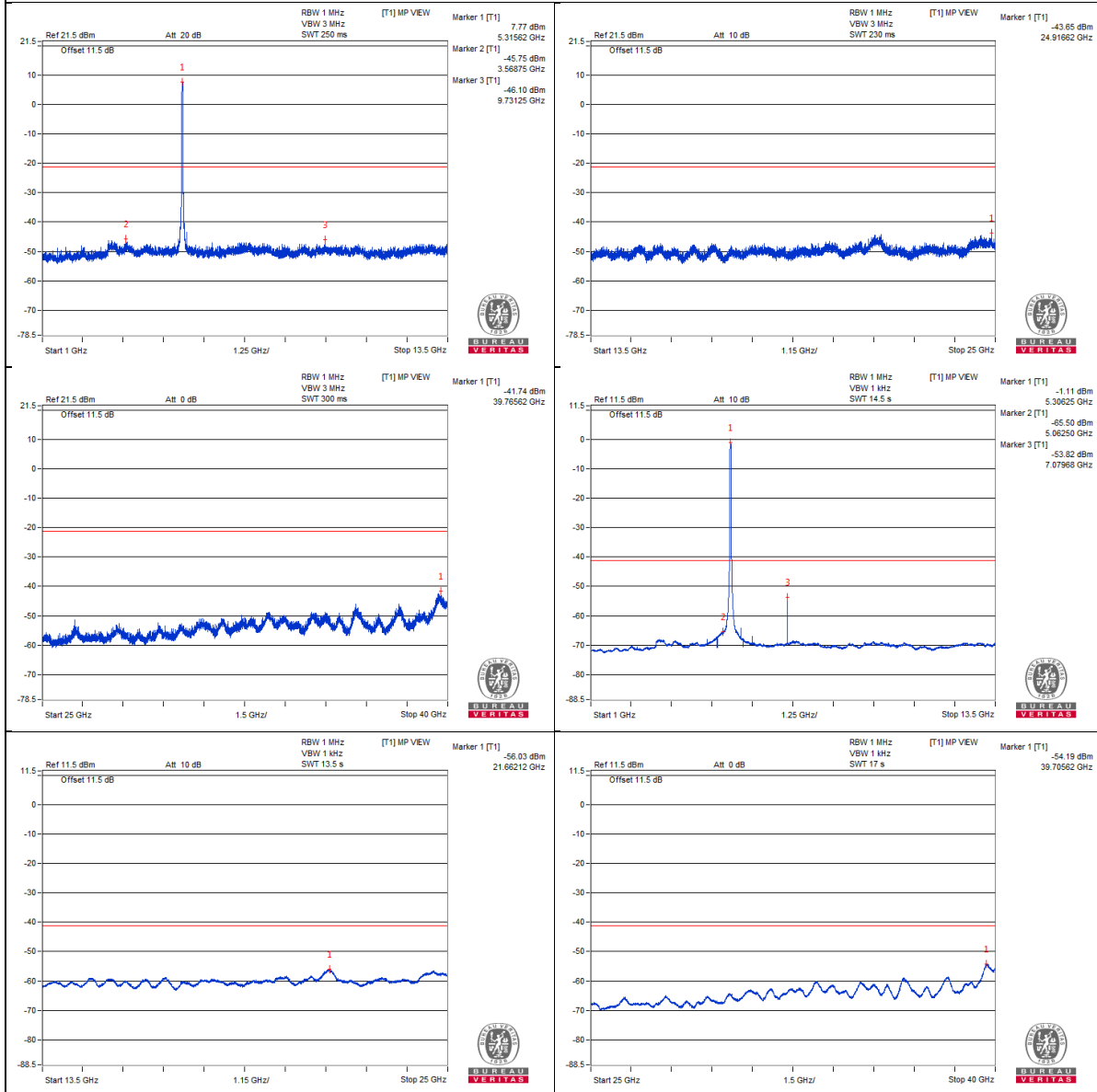
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3546.87 PK	58.44	74	-15.56	-47.73	-48.37	8.21	-36.82
2	3553.12 AV	37.62	54	-16.38	-69.02	-68.71	8.21	-57.64
3	7079.68 PK	58.84	68.2	-9.36	-47.02	-48.36	8.21	-36.42
4	10615.62 PK	57.85	74	-16.15	-49.2	-48.13	8.21	-37.41
5	10620.31 AV	36.69	54	-17.31	-69.79	-69.79	8.21	-58.57
6	15932.25 PK	56.98	74	-17.02	-49.55	-49.46	8.21	-38.28
7	15910.68 AV	45.81	54	-8.19	-60.61	-60.73	8.21	-49.45

Note :

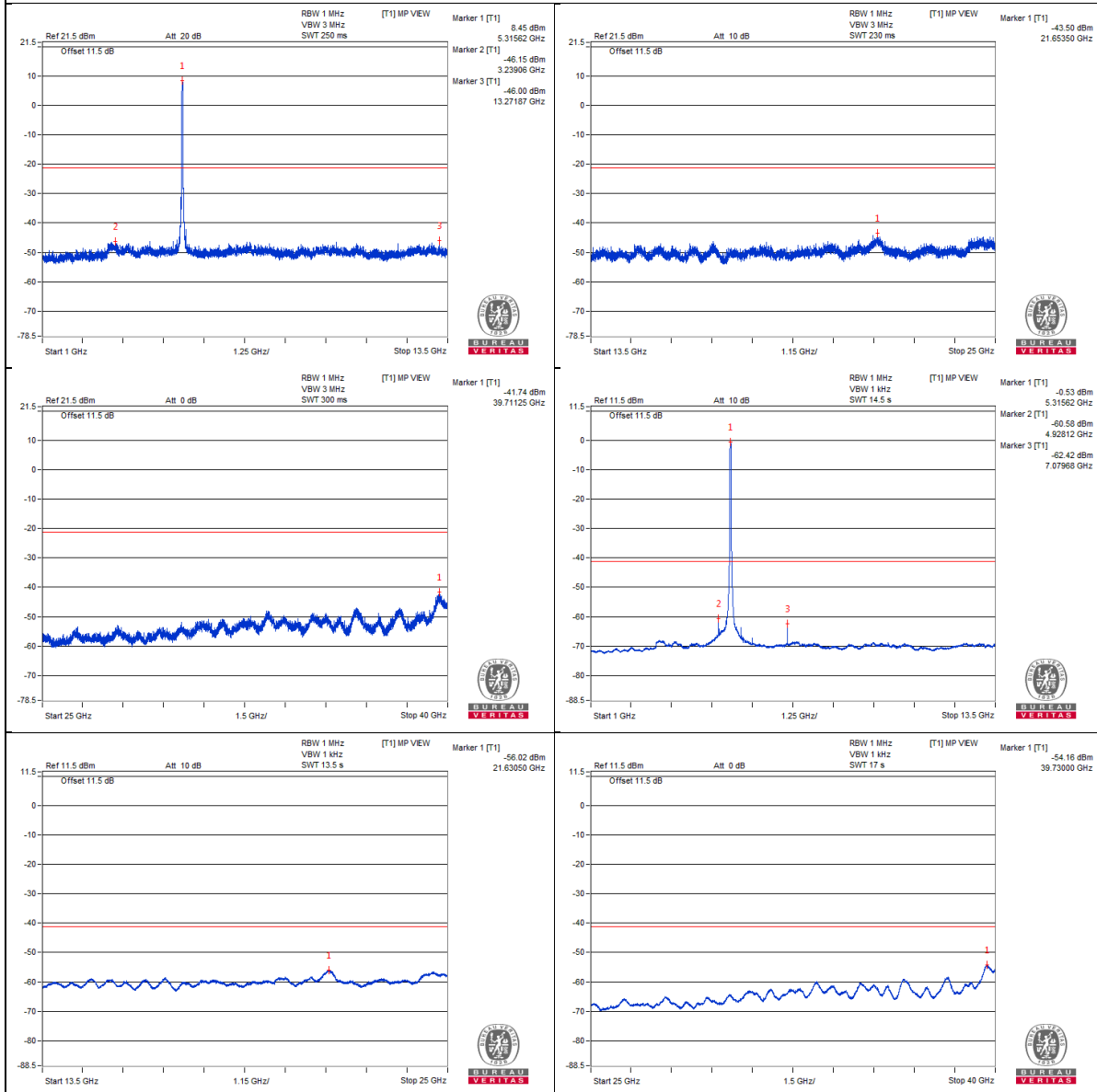
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

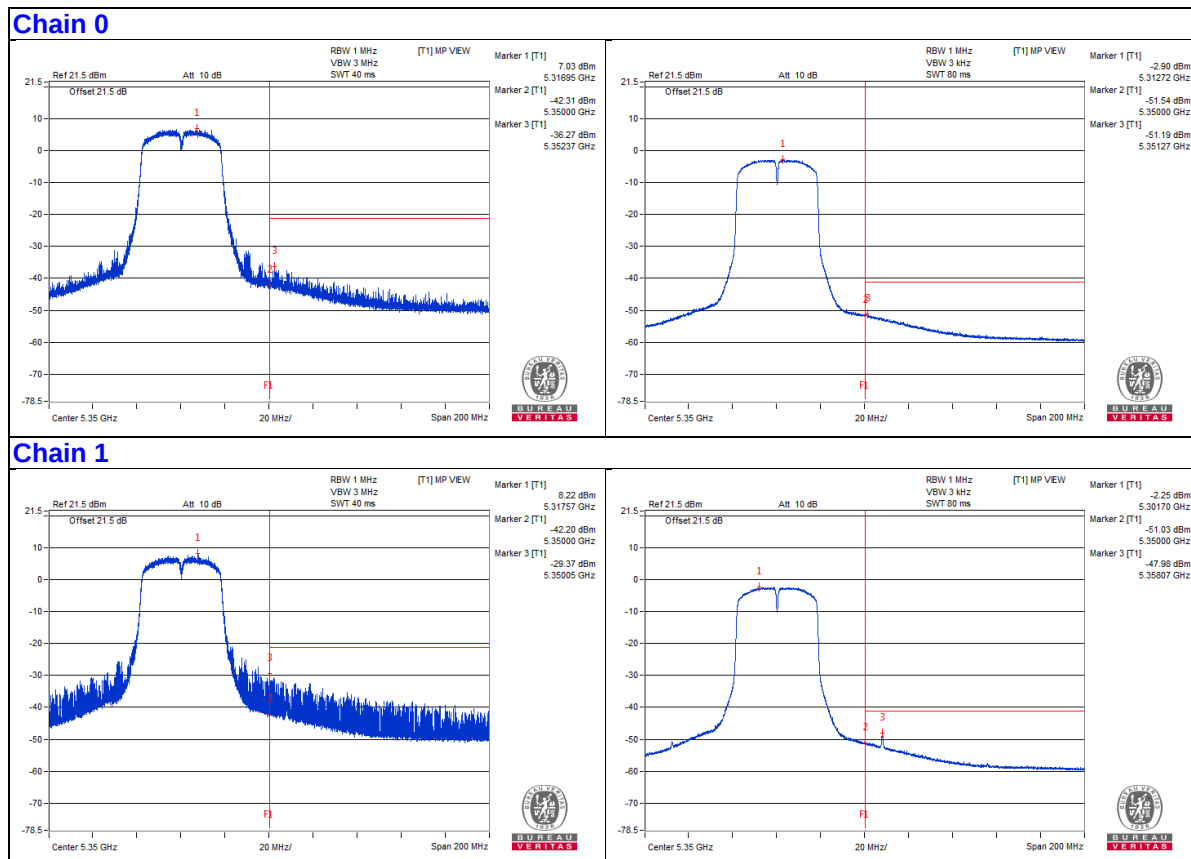
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5350.05 PK	74.3	74	* 0.3	-42.54	-29.37	8.21	-20.96
2	5358.07 AV	56.68	54	* 2.68	-53.01	-47.98	8.21	-38.58

Note :

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

d = measurement distance in 3 meters.

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



802.11ac (VHT40) - Channel 102

Conducted spurious emission table

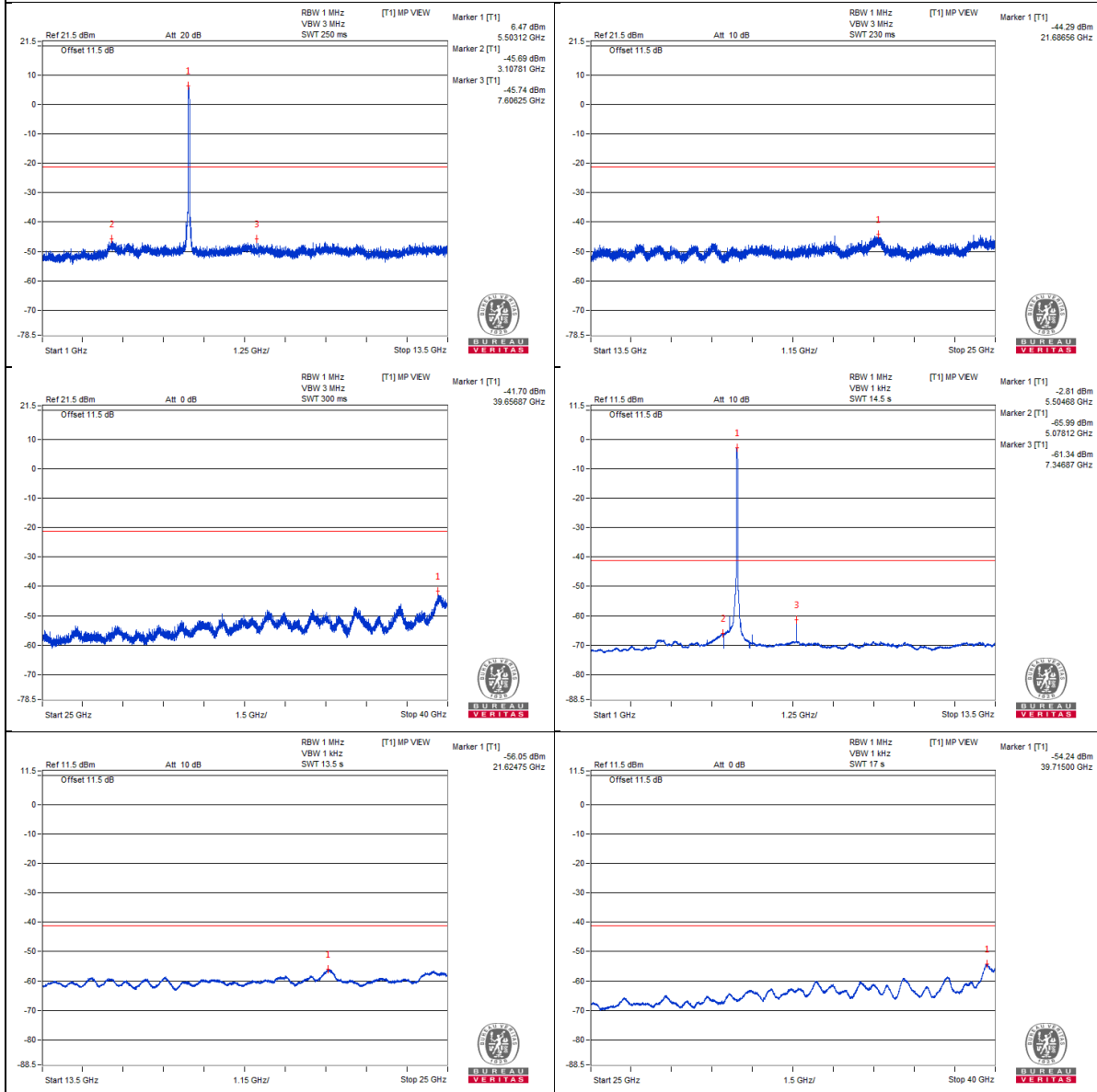
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3654.68 PK	58.91	74	-15.09	-47.43	-49.06	8.81	-36.35
2	3660.93 AV	37.92	54	-16.08	-69.28	-69.05	8.81	-57.34
3	7337.5 PK	59.35	74	-14.65	-47.04	-48.54	8.81	-35.91
4	7346.87 AV	43.63	54	-10.37	-61.34	-67.7	8.81	-51.63
5	11000 PK	57.3	74	-16.7	-49.61	-49.96	8.81	-37.96
6	11020.31 AV	36.16	54	-17.84	-71.03	-70.82	8.81	-59.1
7	16525.93 PK	57.69	68.2	-10.51	-48.36	-50.75	8.81	-37.57

Note :

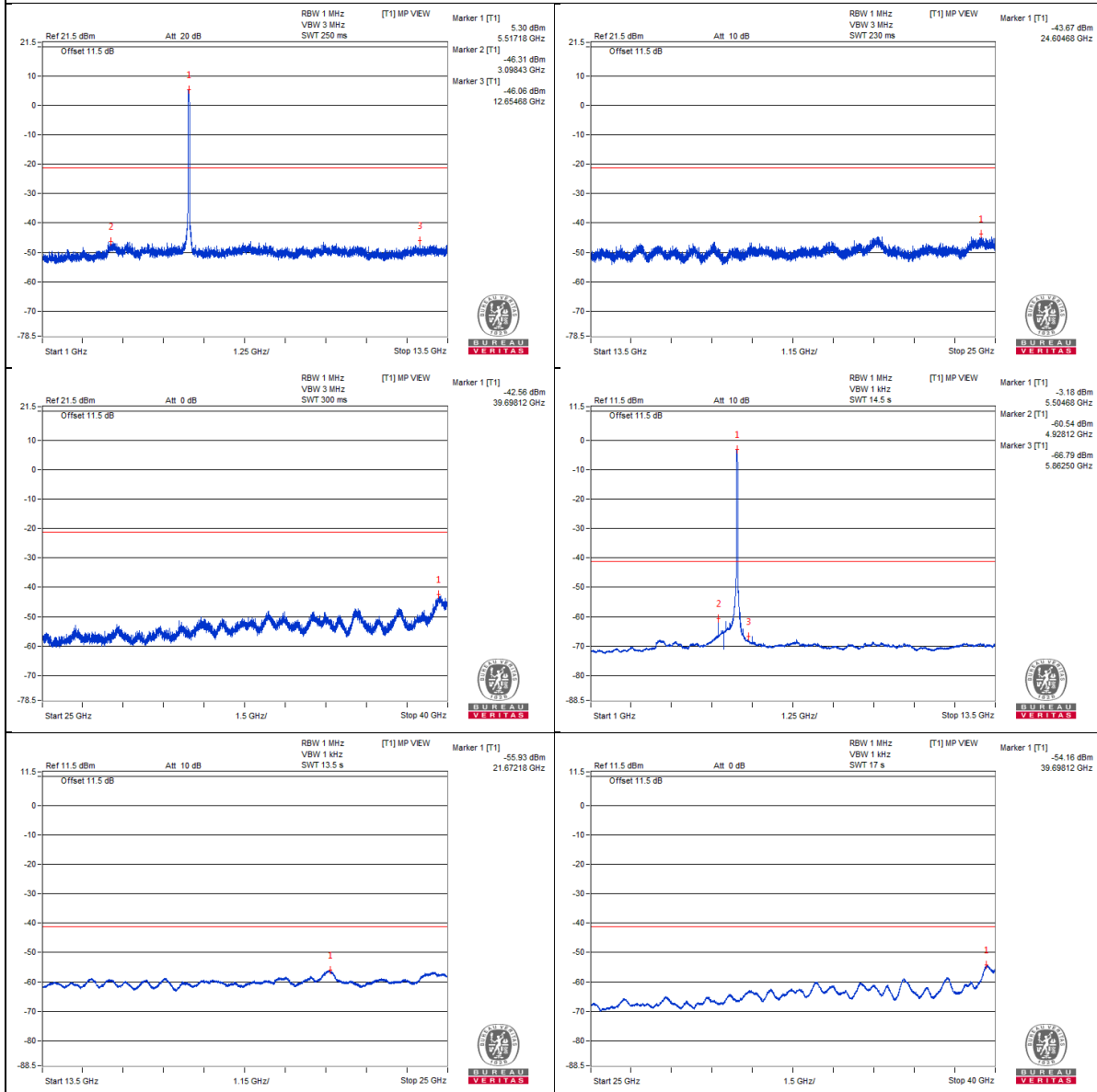
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



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	5459.62 PK	65.23	74	-8.77	-40.2	-44.54	8.81	-30.03
2	5459.15 AV	51.78	54	-2.22	-55.56	-55.05	8.81	-43.48
3	5467 PK	66.7	68.2	-1.5	-44.31	-38.35	8.81	-28.56

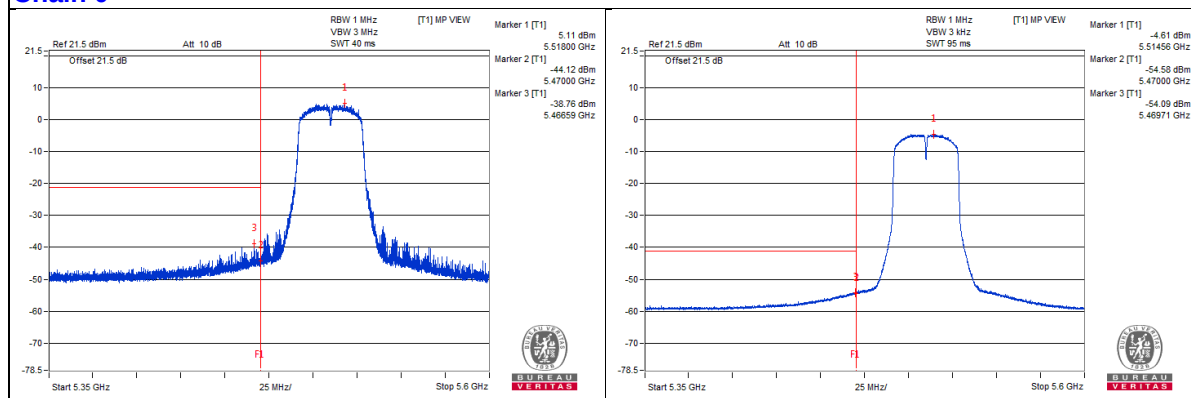
Note :

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

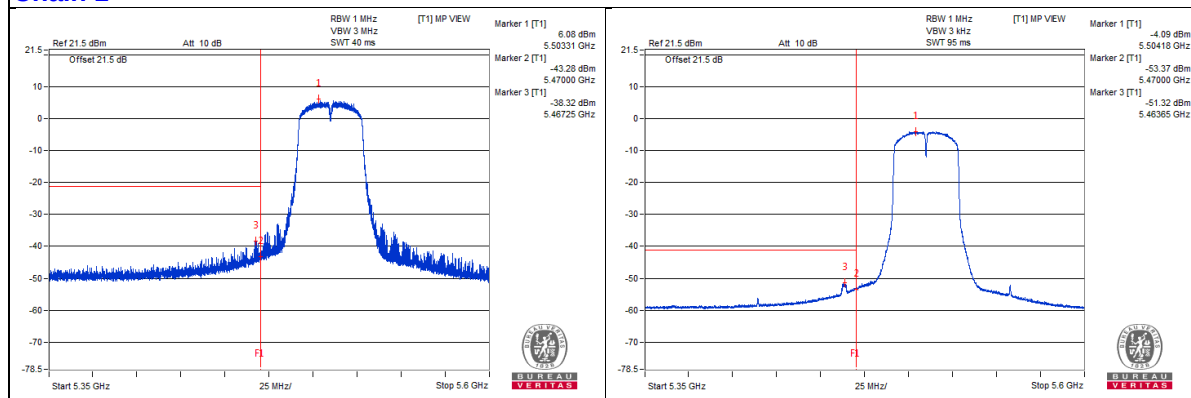
d = measurement distance in 3 meters.

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

Chain 0



Chain 1



802.11ac (VHT40) - Channel 110

Conducted spurious emission table

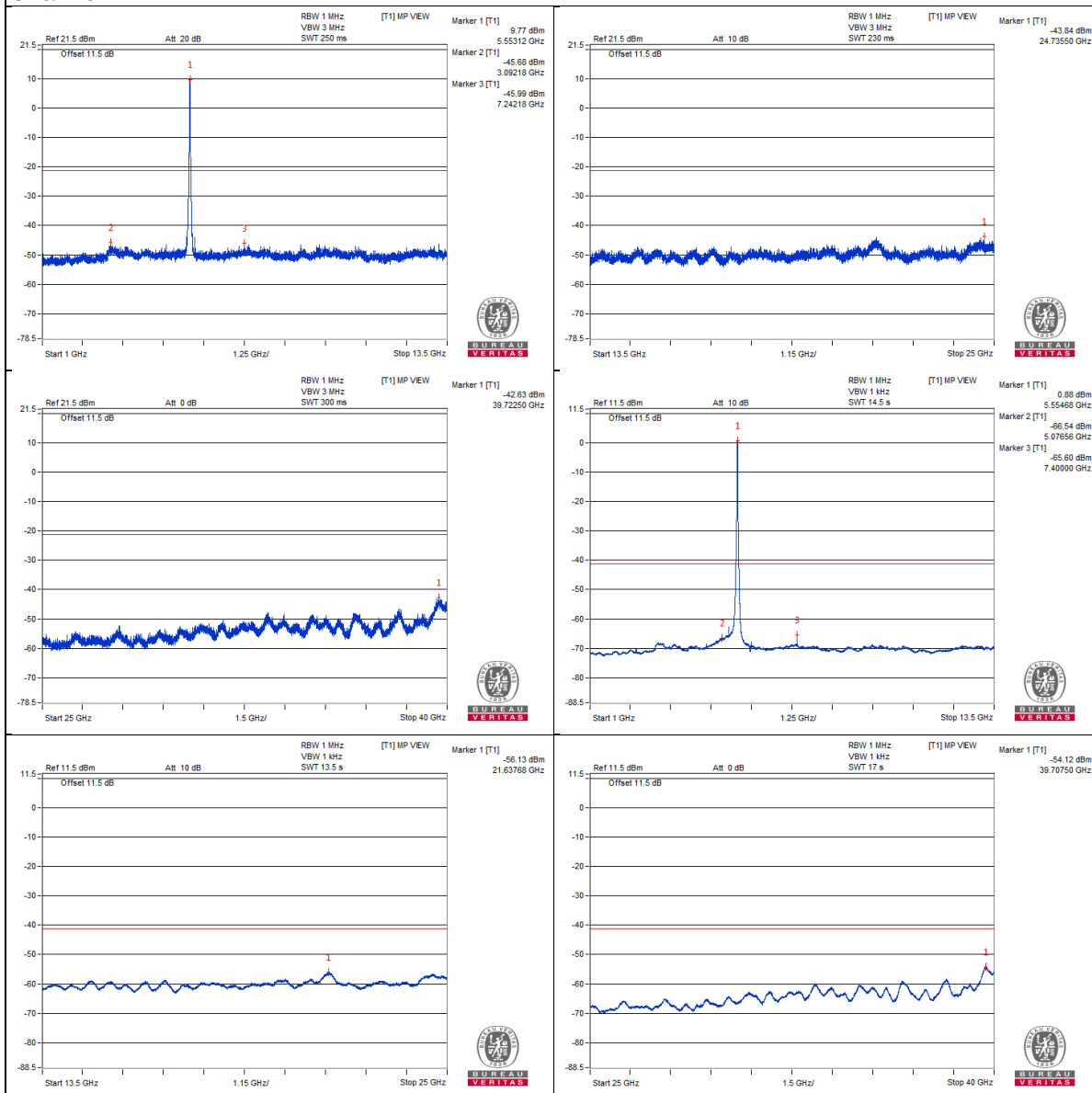
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3710.93 PK	58.26	74	-15.74	-48.88	-48.77	8.81	-37
2	3693.75 AV	37.68	54	-16.32	-69.48	-69.33	8.81	-57.58
3	7407.81 PK	59.33	74	-14.67	-48.23	-47.31	8.81	-35.93
4	7400 AV	40.14	54	-13.86	-65.6	-68.88	8.81	-55.12
5	11081.25 PK	56.43	74	-17.57	-51.75	-49.77	8.81	-38.83
6	11100 AV	36.22	54	-17.78	-71.29	-70.47	8.81	-59.04
7	16668.25 PK	56.41	68.2	-11.79	-51.44	-50.01	8.81	-38.85

Note :

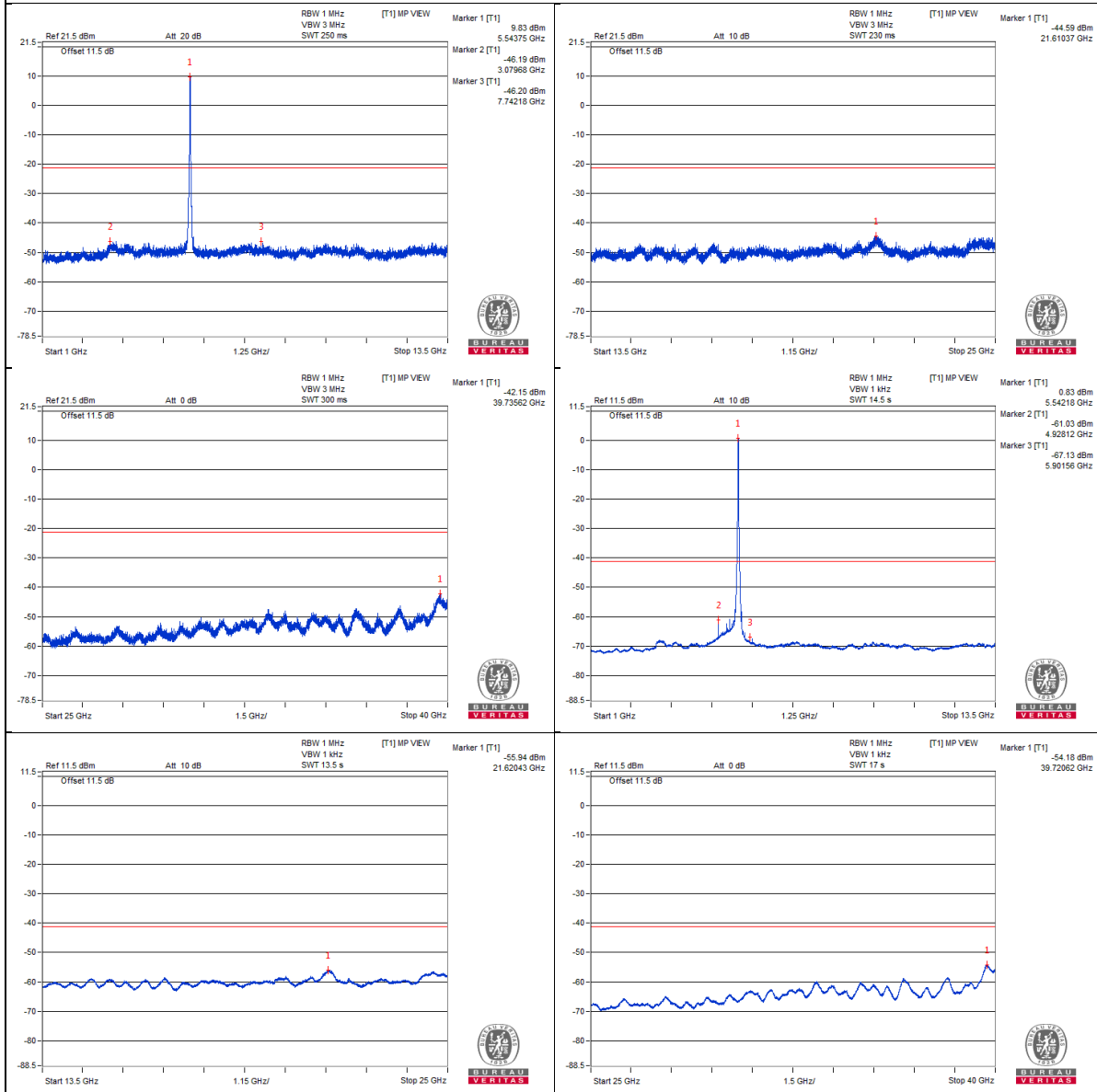
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



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	5457.28 PK	68.04	74	-5.96	-43.82	-36.82	8.81	-27.22
2	5454 AV	54.78	54	* 0.78	-55.34	-50.53	8.81	-40.48
3	5466.43 PK	70.11	68.2	* 1.91	-37.04	-36.91	8.81	-25.15

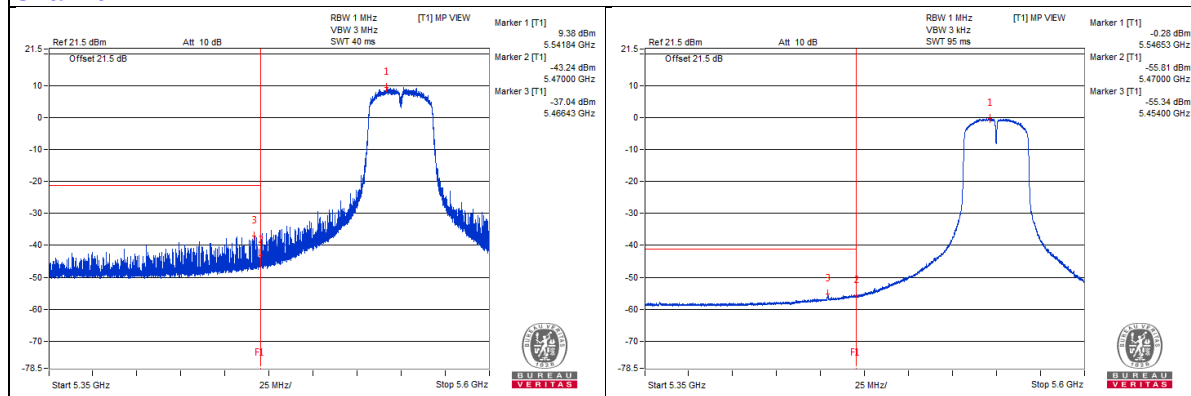
Note :

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

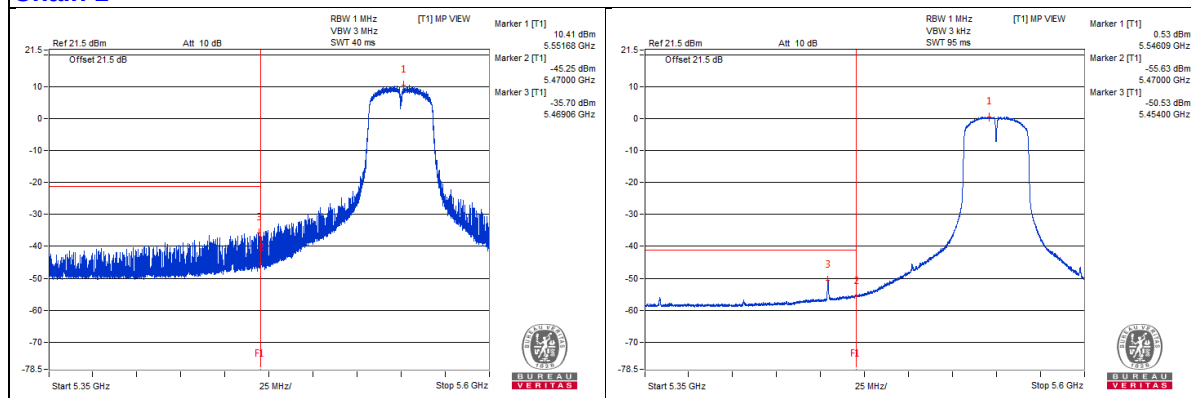
d = measurement distance in 3 meters.

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

Chain 0



Chain 1



802.11ac (VHT40) - Channel 134

Conducted spurious emission table

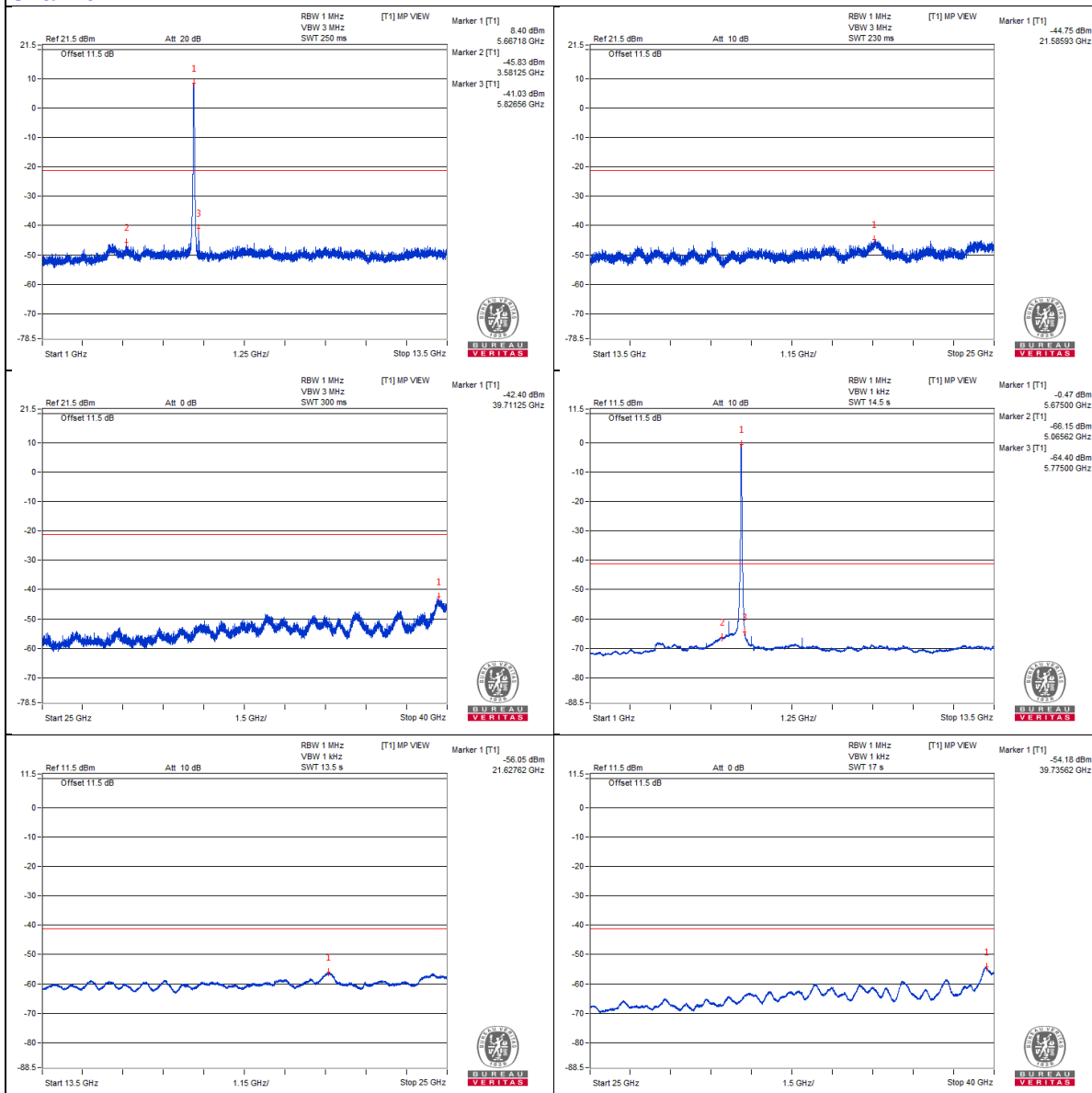
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3760.93 PK	58.66	74	-15.34	-48.03	-48.85	8.81	-36.6
2	3770.31 AV	37.67	54	-16.33	-69.33	-69.5	8.81	-57.59
3	7570.31 PK	58.36	74	-15.64	-48.73	-48.72	8.81	-36.9
4	7559.37 AV	39.24	54	-14.76	-66.56	-69.67	8.81	-56.02
5	11346.87 PK	57.52	74	-16.48	-50.6	-48.72	8.81	-37.74
6	11345.31 AV	36.96	54	-17.04	-70.32	-69.93	8.81	-58.3
7	16994.56 PK	60.04	68.2	-8.16	-48.4	-46	8.81	-35.22

Note :

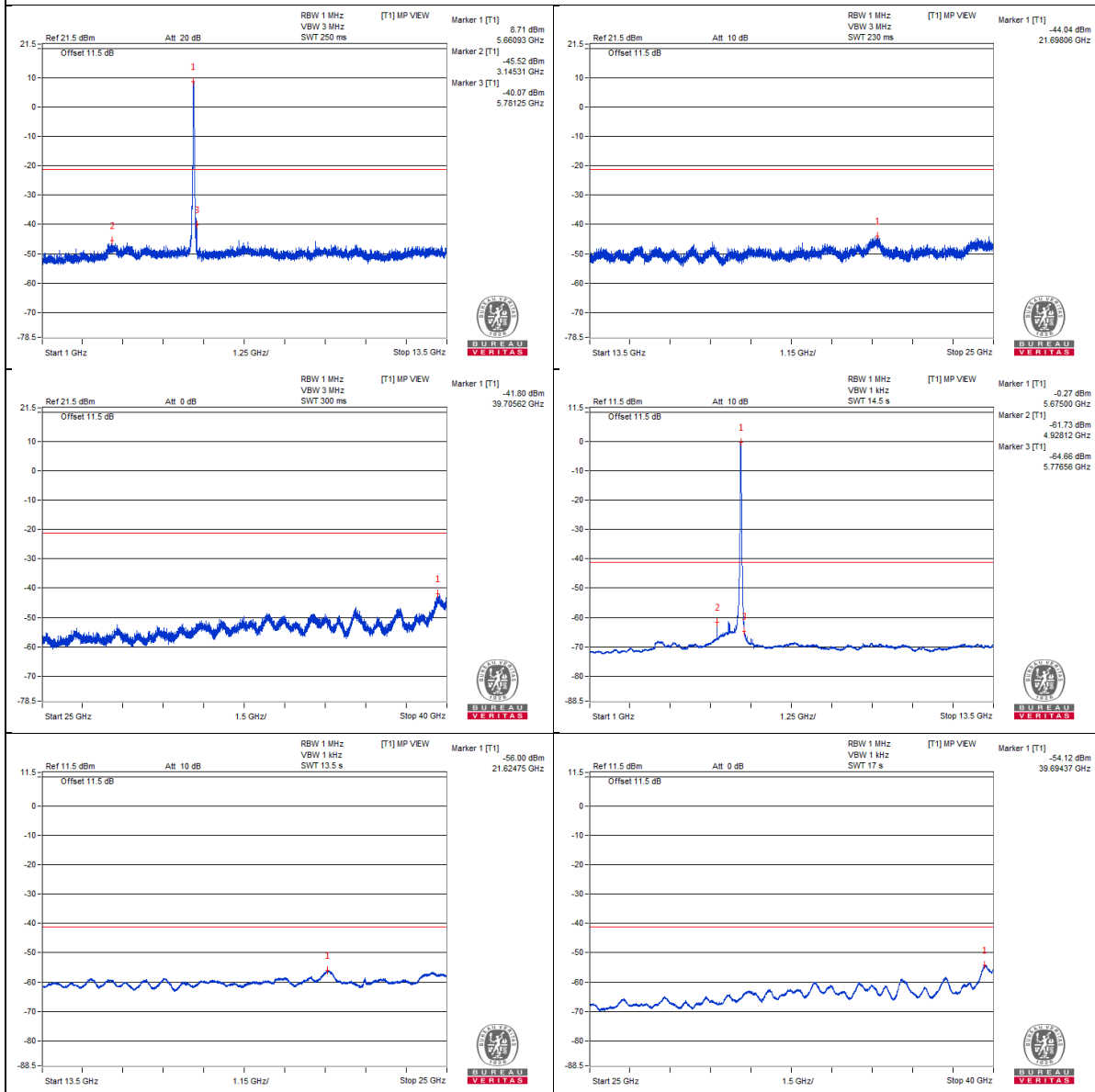
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

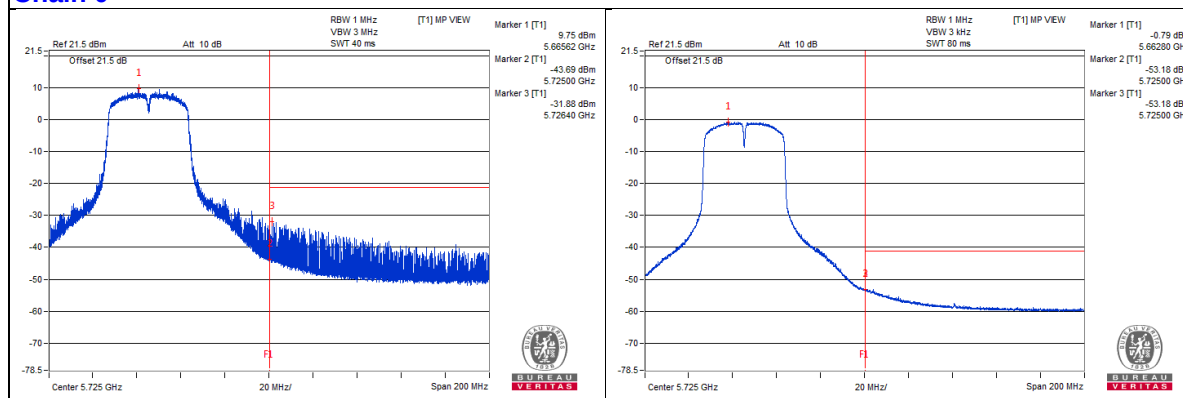
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5827.03 PK	66.3	68.2	-1.9	-49.08	-38.1	8.81	-28.96

Note :

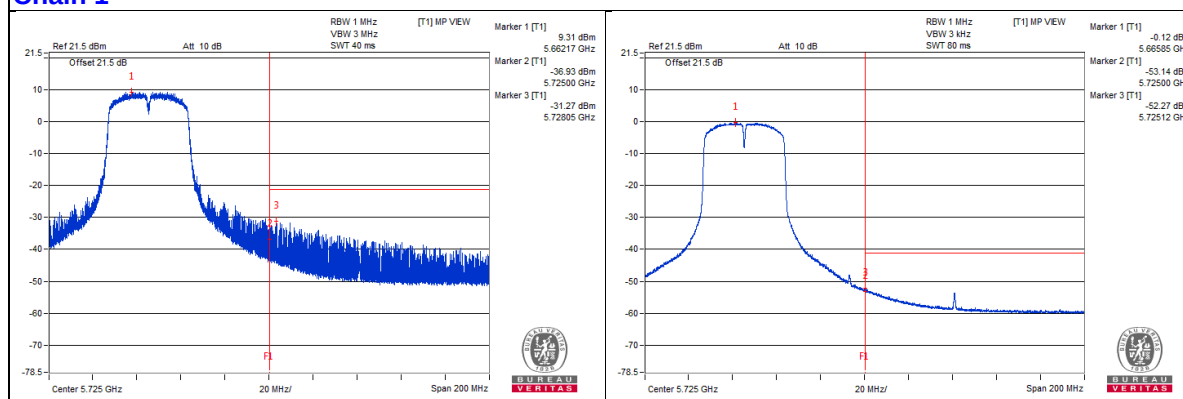
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



802.11ac (VHT40) - Channel 142

Conducted spurious emission table

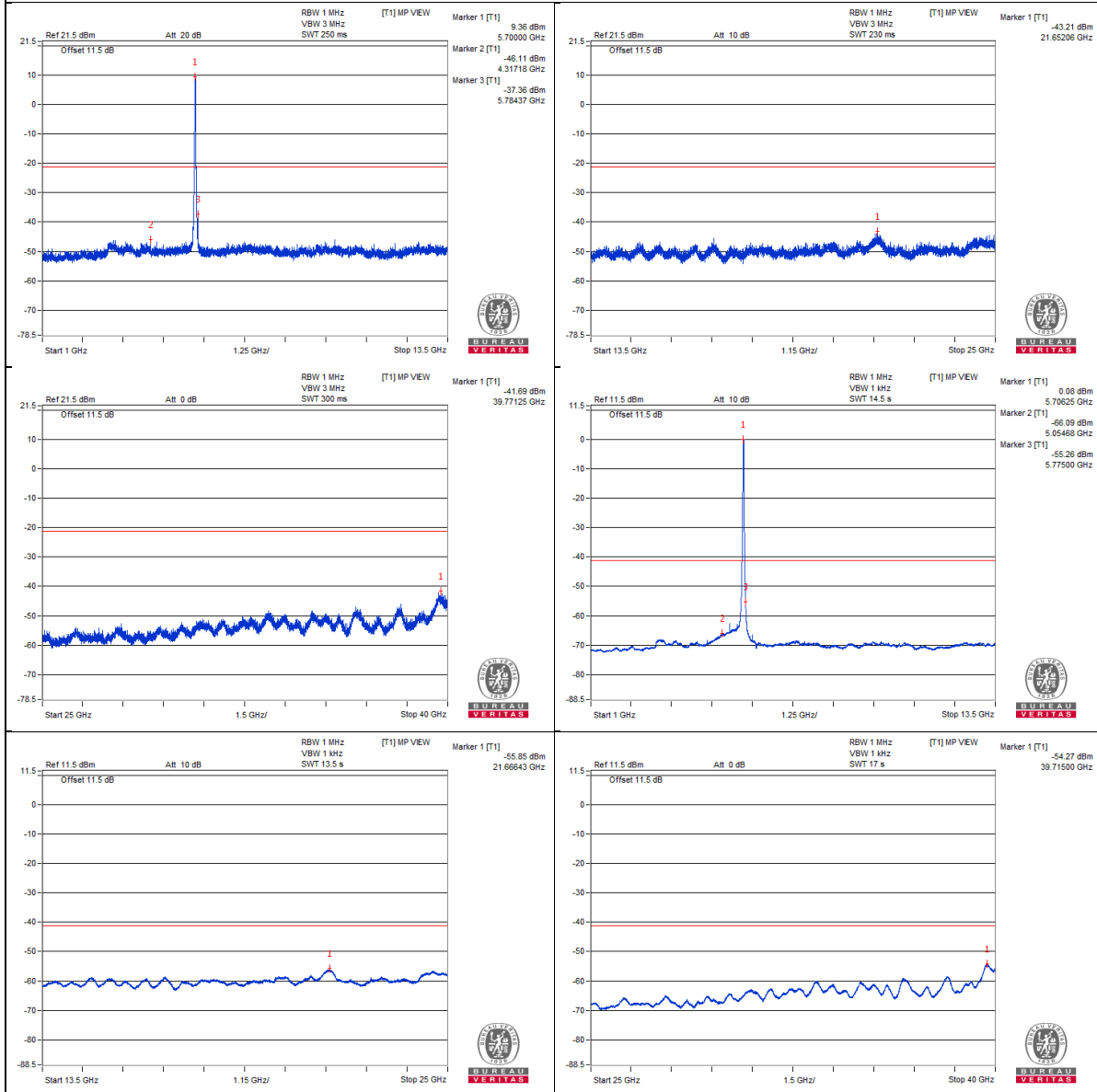
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3798.43 PK	57.69	74	-16.31	-50.07	-48.81	8.81	-37.57
2	3789.06 AV	37.39	54	-16.61	-69.68	-69.71	8.81	-57.87
3	7607.81 PK	58.84	74	-15.16	-48.08	-48.41	8.81	-36.42
4	7614.06 AV	37.86	54	-16.14	-68.68	-69.84	8.81	-57.4
5	11414.06 PK	57.17	74	-16.83	-49.53	-50.32	8.81	-38.09
6	11420.31 AV	36.73	54	-17.27	-70.87	-69.88	8.81	-58.53
7	17138.31 PK	58.02	68.2	-10.18	-49.76	-48.46	8.81	-37.24

Note :

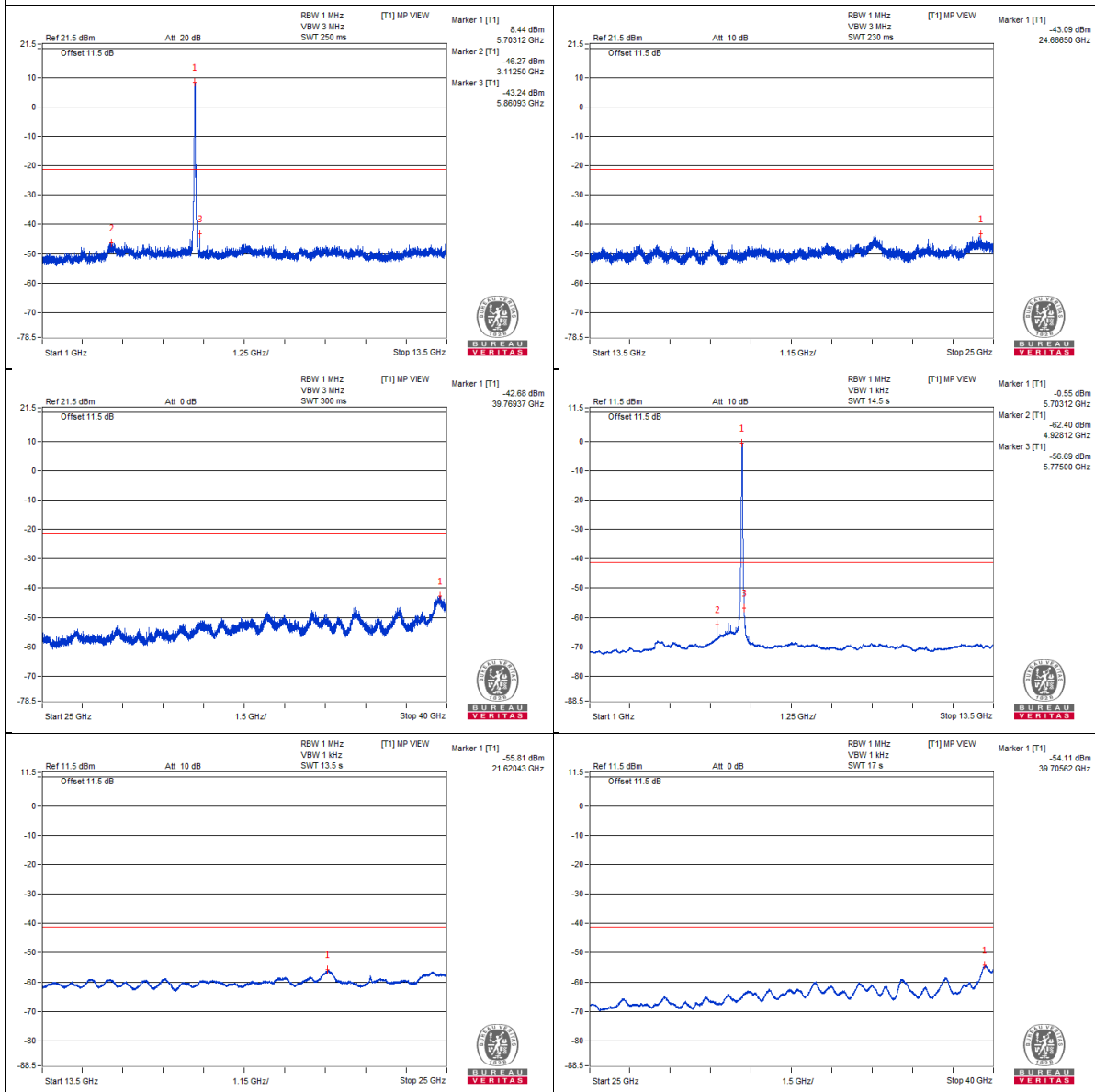
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

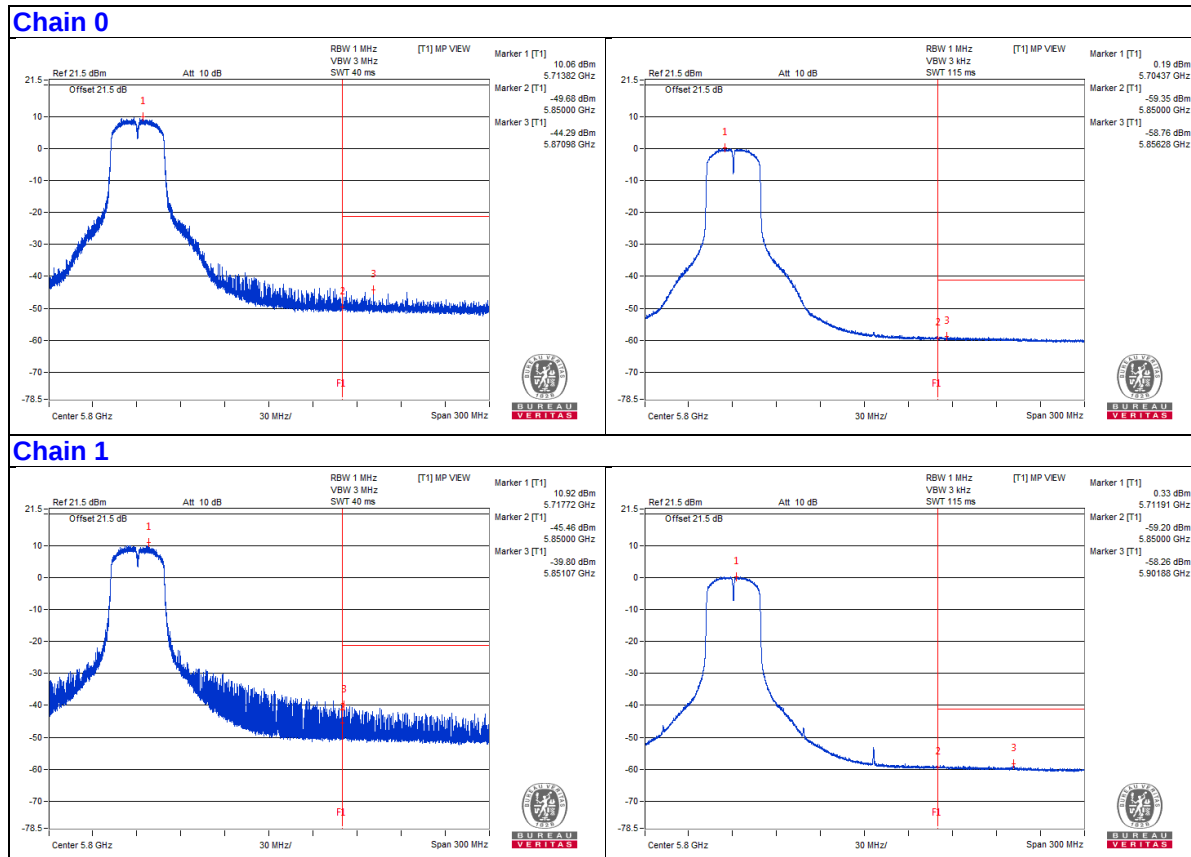
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5146.6 PK	68.45	74	-5.55	-38.97	-37.26	8.21	-26.81
2	5147.4 AV	56.56	54	* 2.56	-50.04	-49.81	8.21	-38.7

Note :

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

d = measurement distance in 3 meters.

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



802.11ac (VHT40) - Channel 151

Conducted spurious emission table

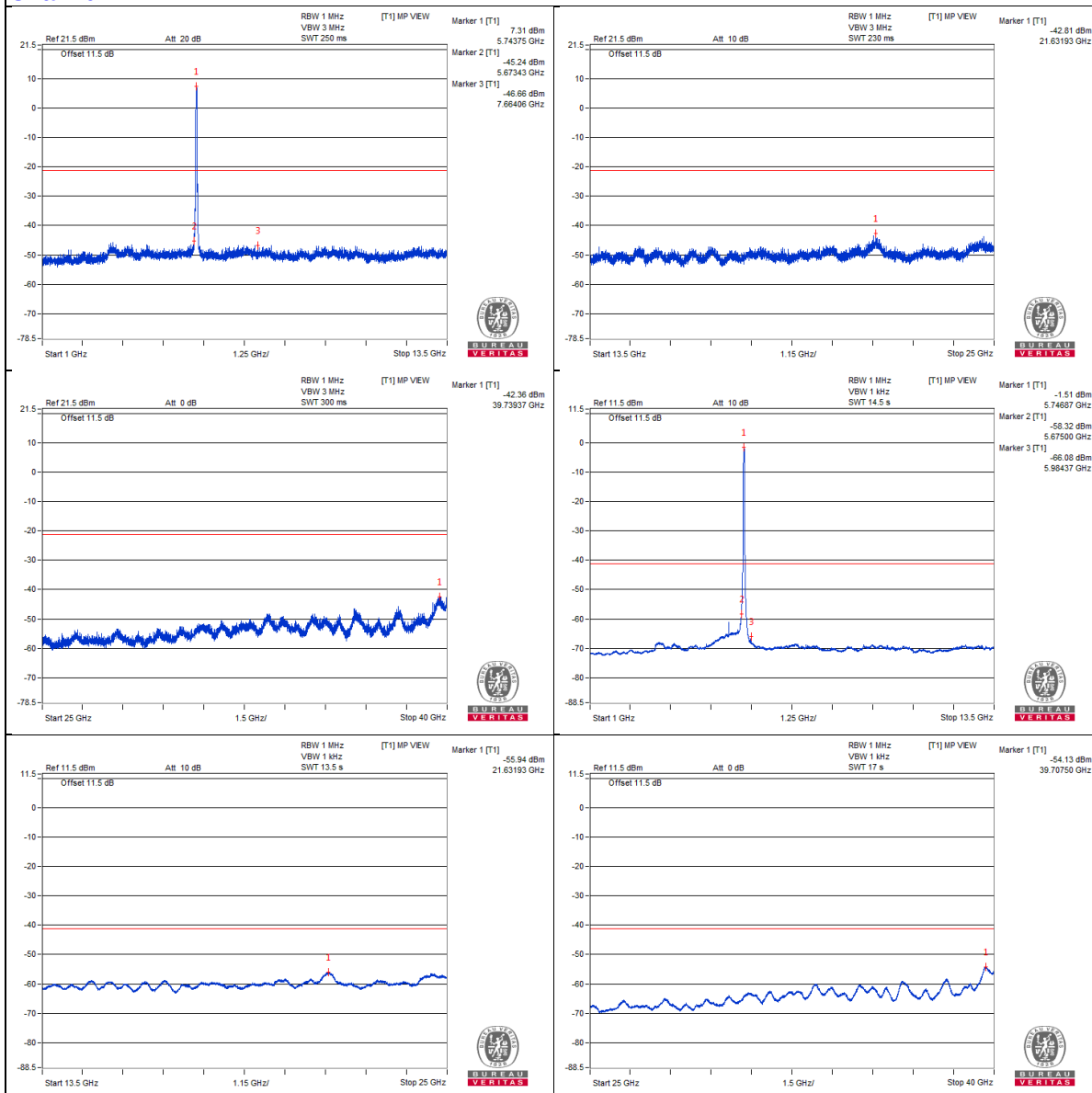
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3825 PK	57.71	74	-16.29	-49.29	-49.46	8.81	-37.55
2	3817.18 AV	36.83	54	-17.17	-70.14	-70.36	8.81	-58.43
3	7664.06 PK	59.33	74	-14.67	-46.66	-49.21	8.81	-35.93
4	7673.43 AV	37.87	54	-16.13	-68.73	-69.76	8.81	-57.39
5	11507.81 PK	57.47	74	-16.53	-49.54	-49.69	8.81	-37.79
6	11510.93 AV	36.7	54	-17.3	-70.96	-69.87	8.81	-58.56
7	17246.12 PK	55.41	68.2	-12.79	-50.93	-52.56	8.81	-39.85

Note :

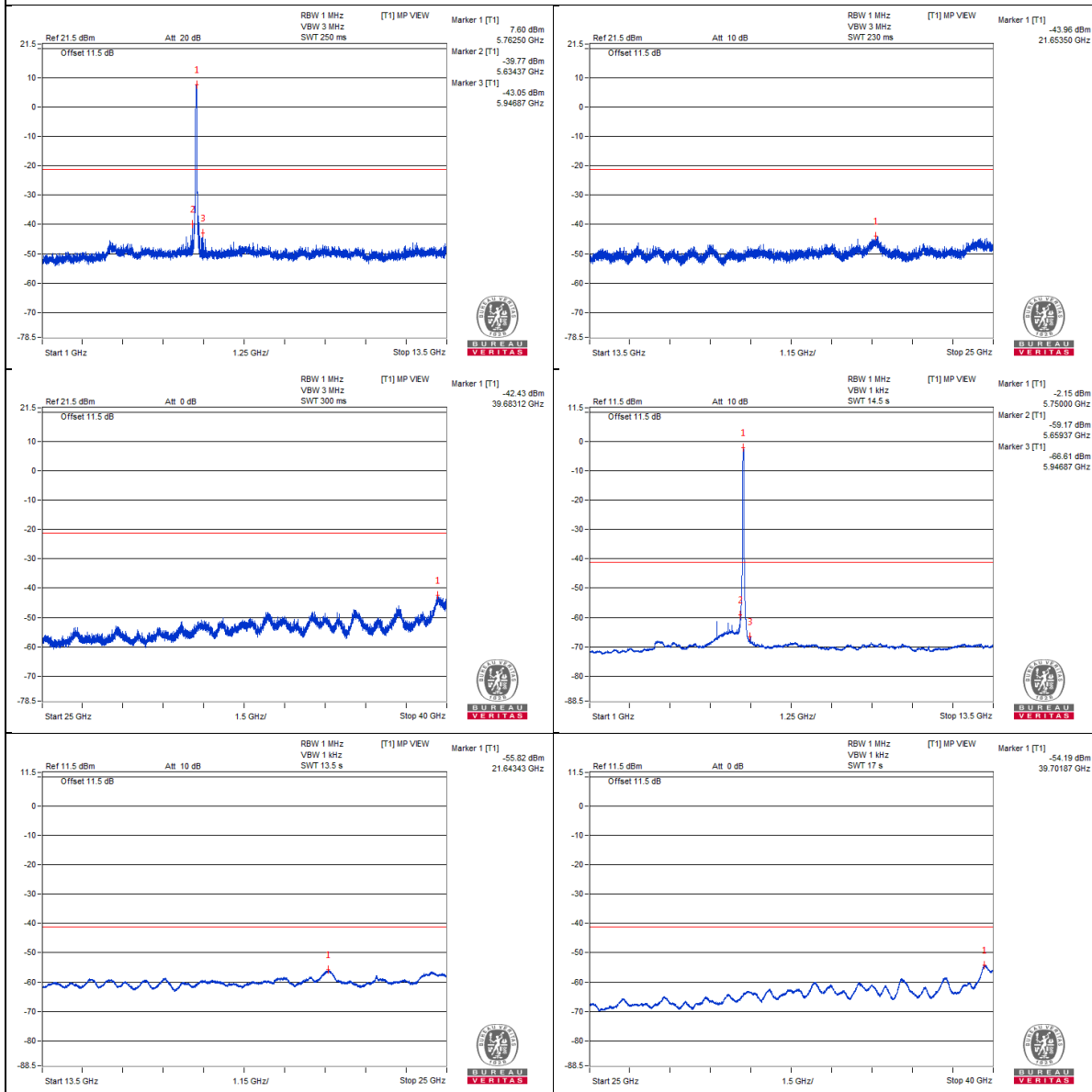
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0

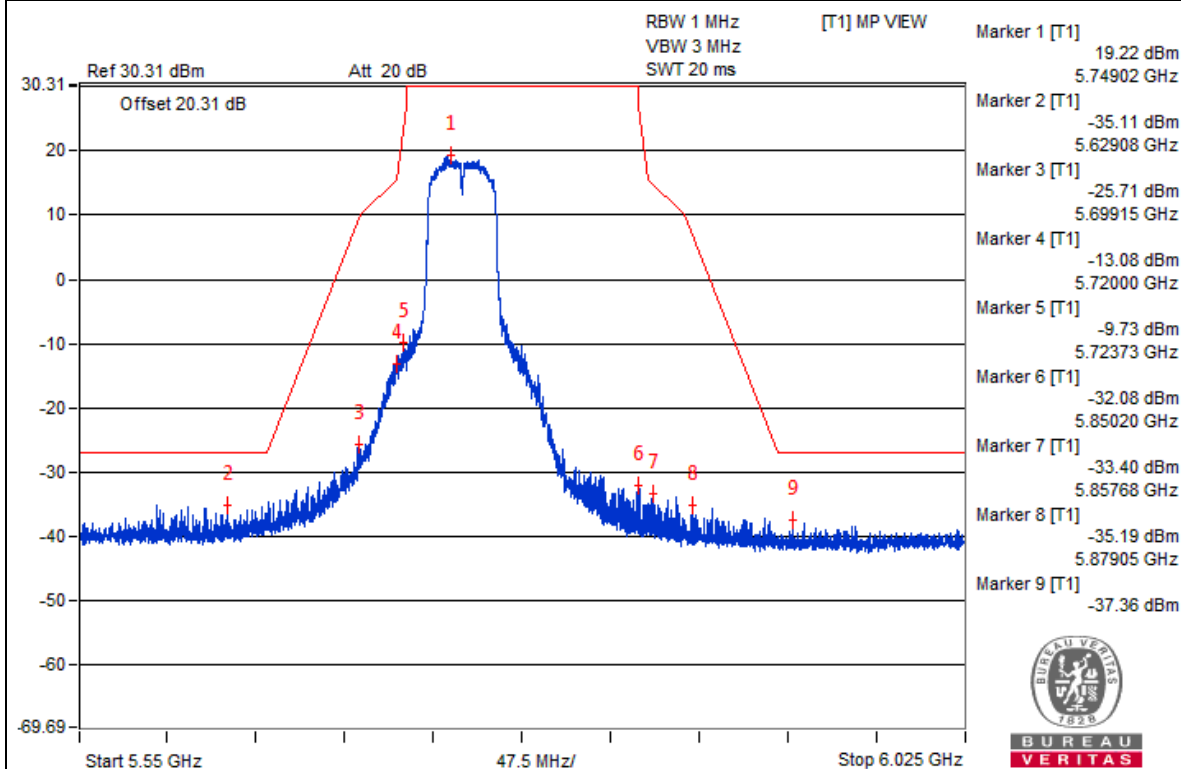


Chain 1

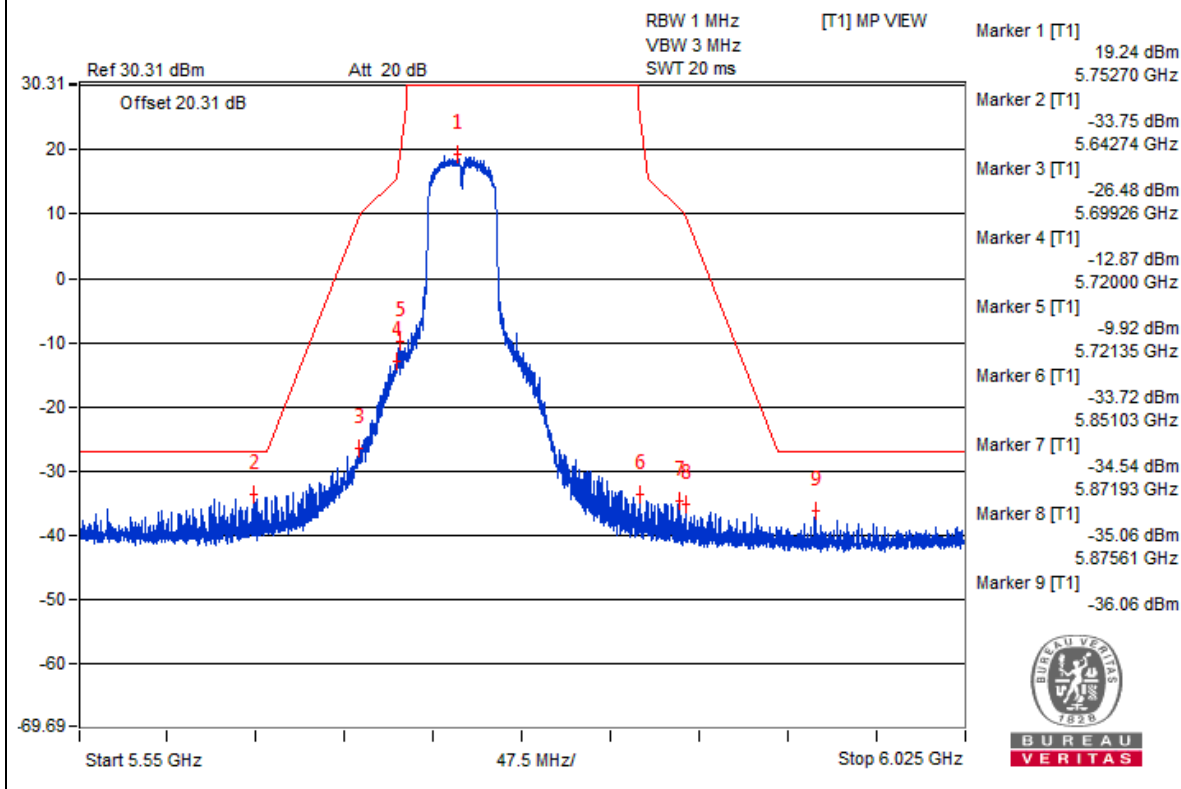


Bandedge table

Chain 0



Chain 1



802.11ac (VHT40) - Channel 159

Conducted spurious emission table

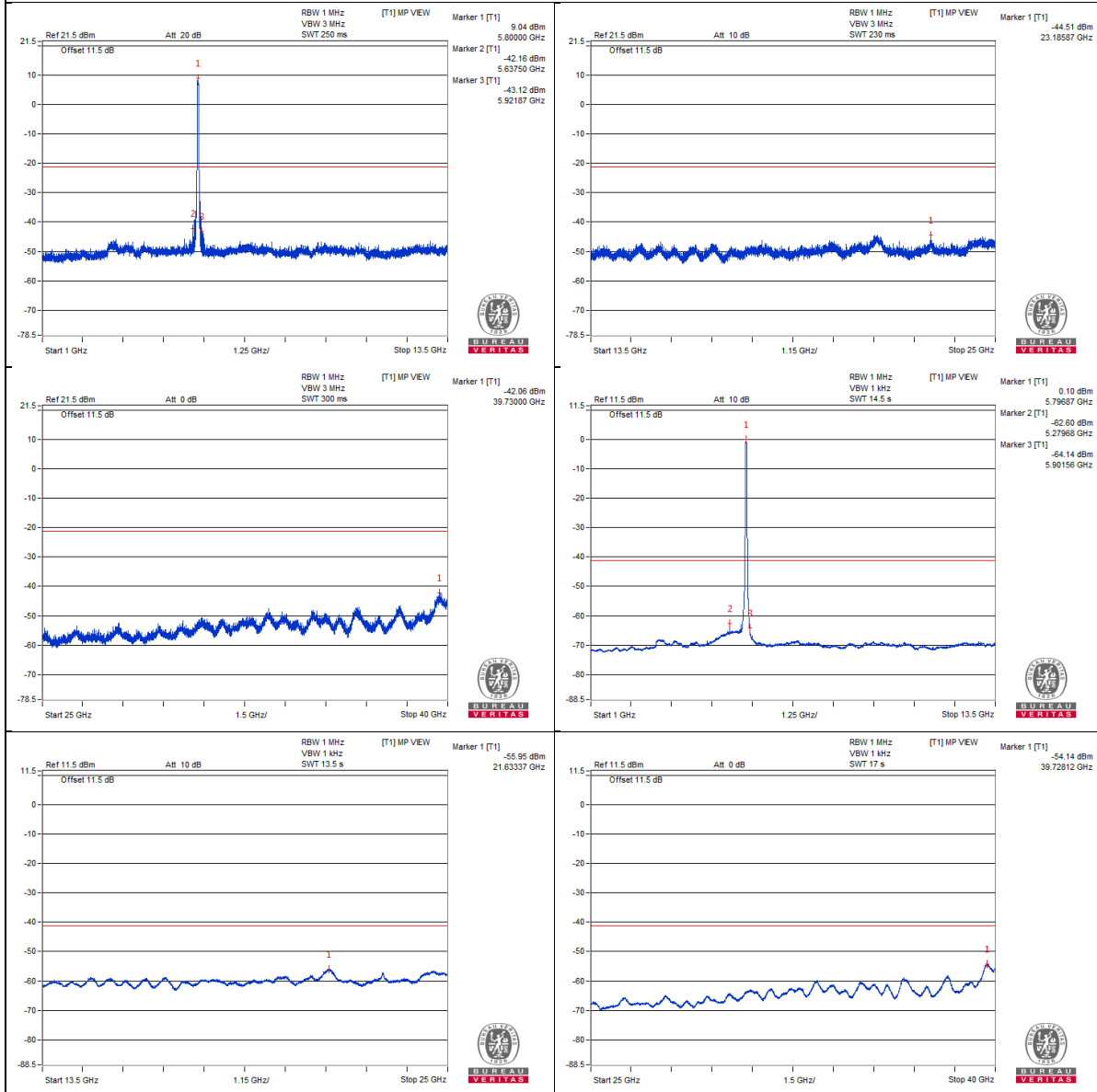
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3854.68 PK	57.61	74	-16.39	-50.44	-48.67	8.81	-37.65
2	3860.93 AV	36.81	54	-17.19	-70.15	-70.4	8.81	-58.45
3	7723.43 PK	58.72	74	-15.28	-48.98	-47.82	8.81	-36.54
4	7726.56 AV	37.84	54	-16.16	-69.04	-69.46	8.81	-57.42
5	11590.62 PK	56.62	74	-17.38	-50.86	-50.09	8.81	-38.64
6	11590.62 AV	36.93	54	-17.07	-70.78	-69.6	8.81	-58.33
7	17402.81 PK	56.67	68.2	-11.53	-49.79	-51.13	8.81	-38.59

Note :

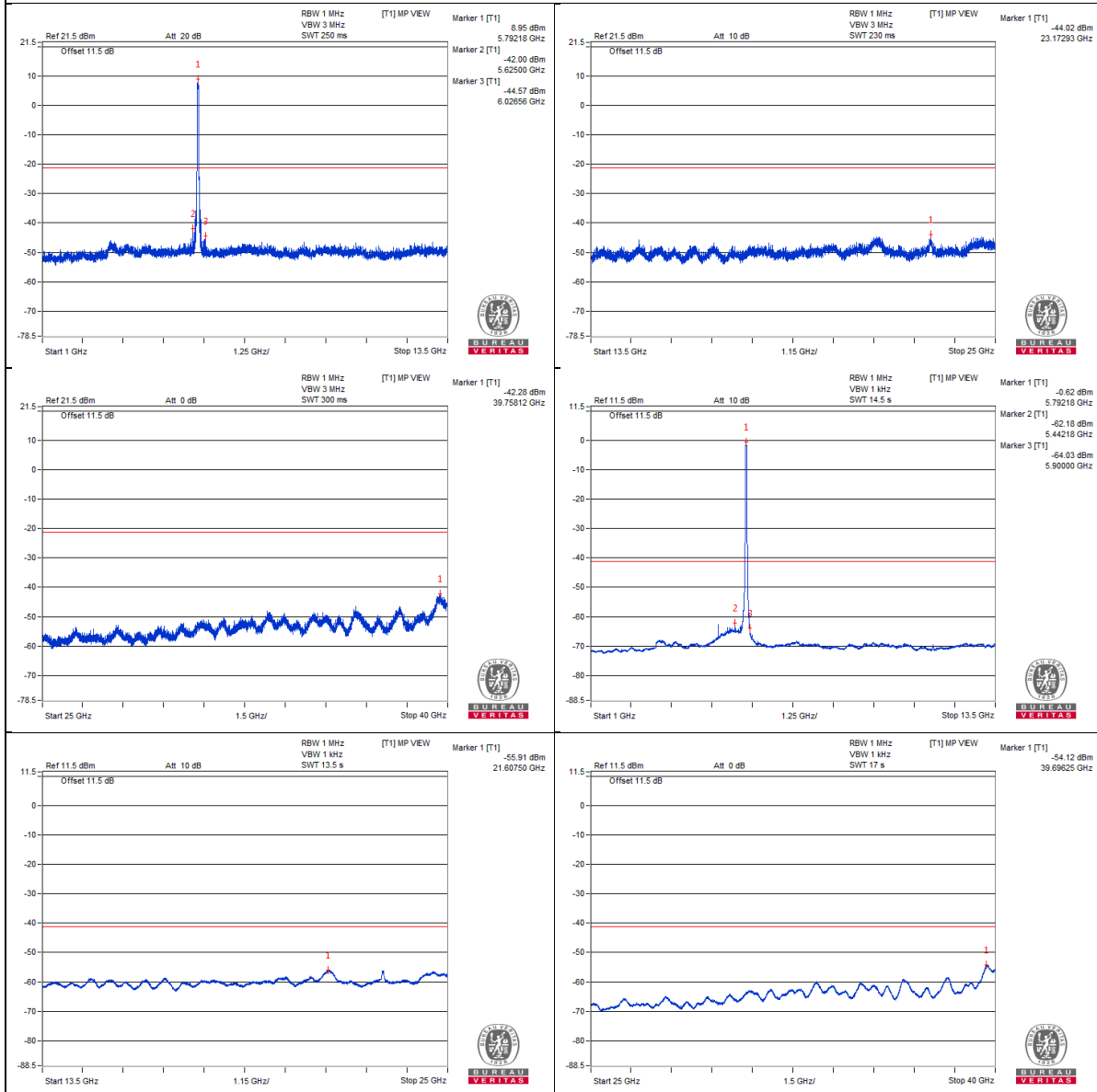
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0

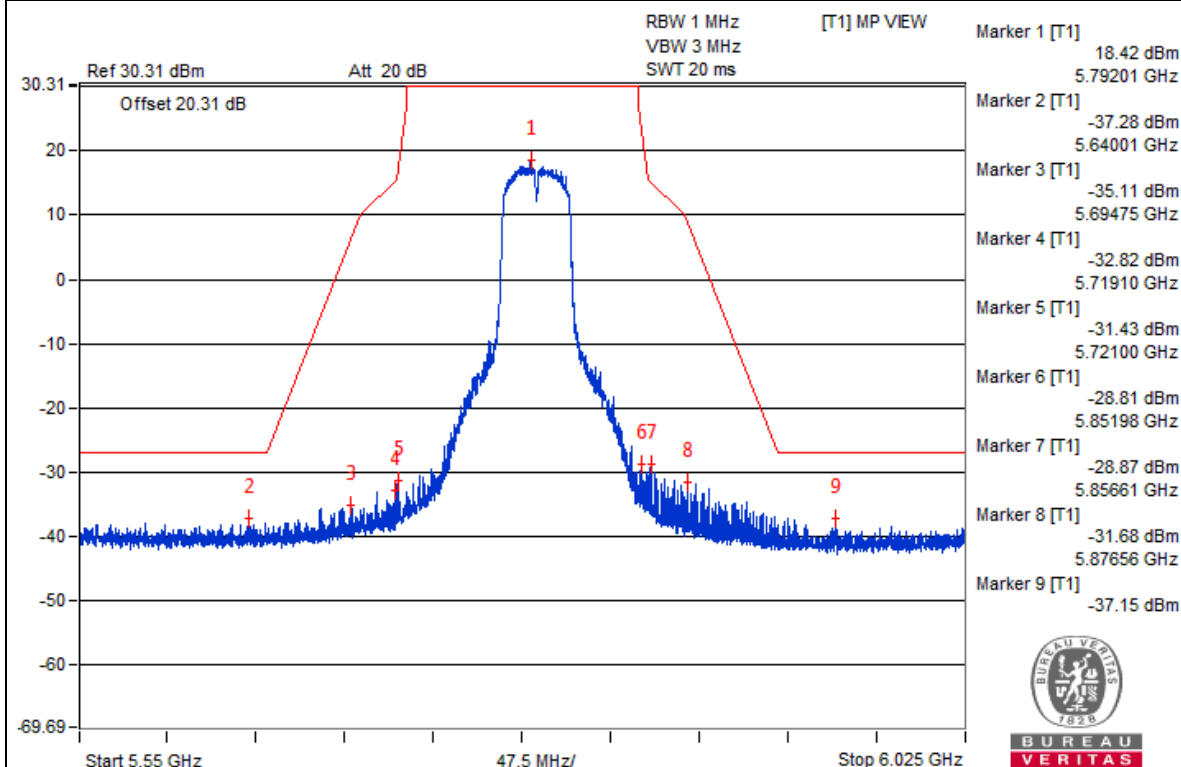


Chain 1

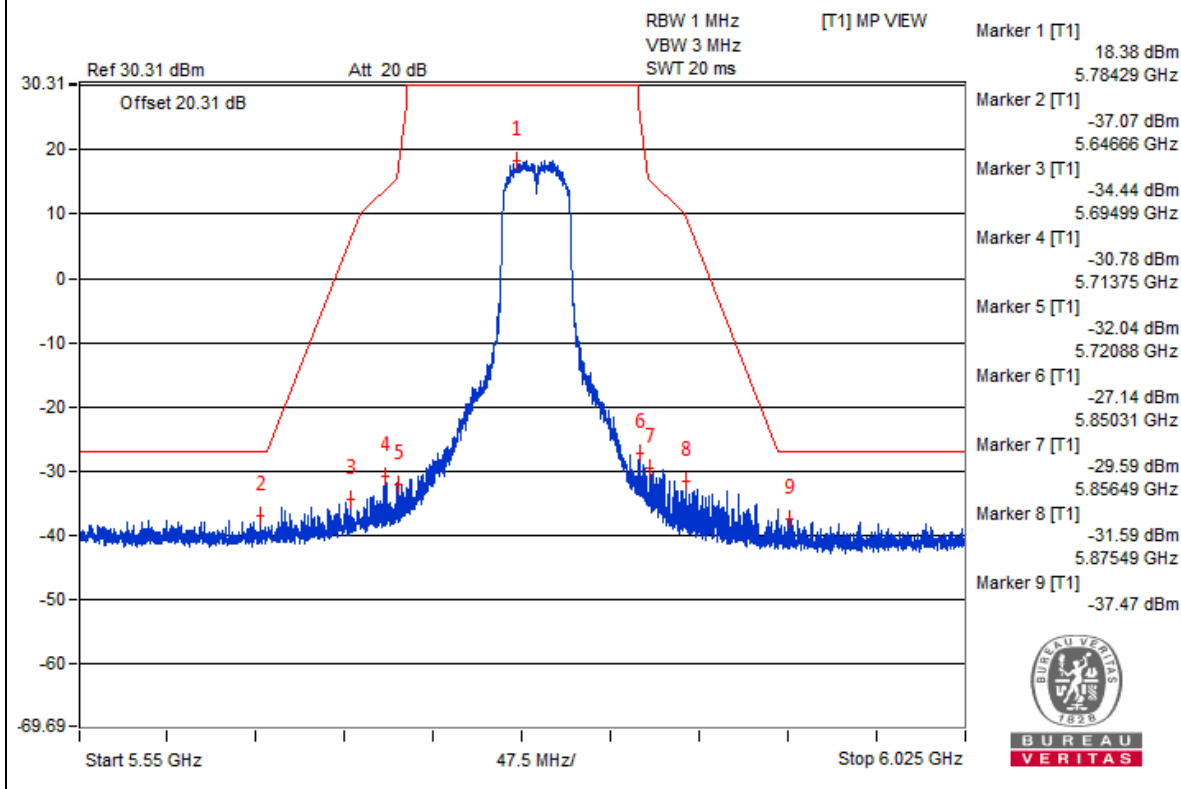


Bandedge table

Chain 0



Chain 1



802.11ac (VHT80) - Channel 42

Conducted spurious emission table

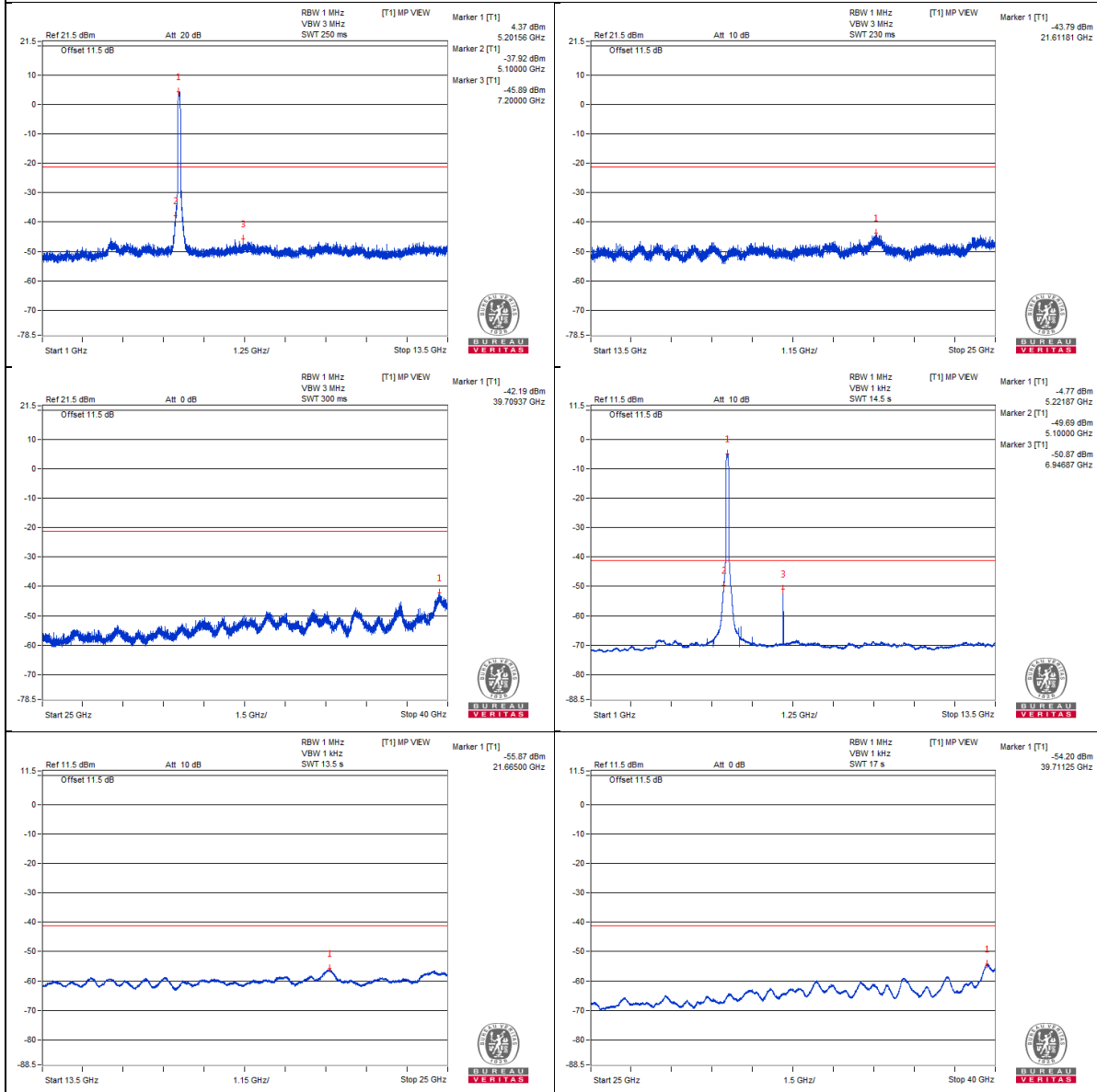
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3460.93 PK	57.61	68.2	-10.59	-49.46	-48.35	8.21	-37.65
2	6946.87 PK	59.89	68.2	-8.31	-45.98	-47.29	8.21	-35.37
3	10406.25 PK	57.6	68.2	-10.6	-49.45	-48.38	8.21	-37.66
4	15621.75 PK	55.72	74	-18.28	-52.02	-49.78	8.21	-39.54
5	15610.25 AV	45.19	54	-8.81	-61.52	-61.08	8.21	-50.07

Note :

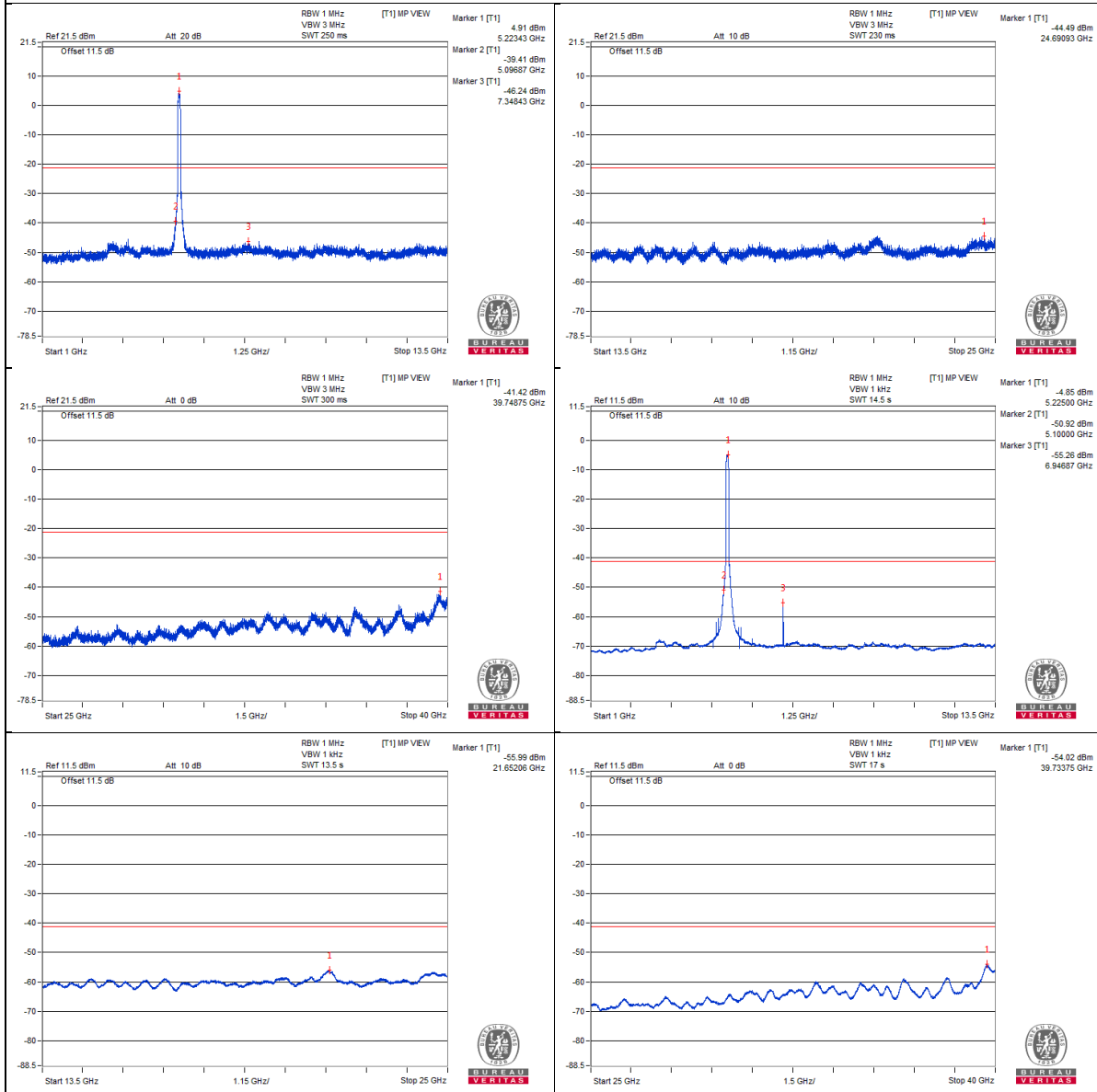
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

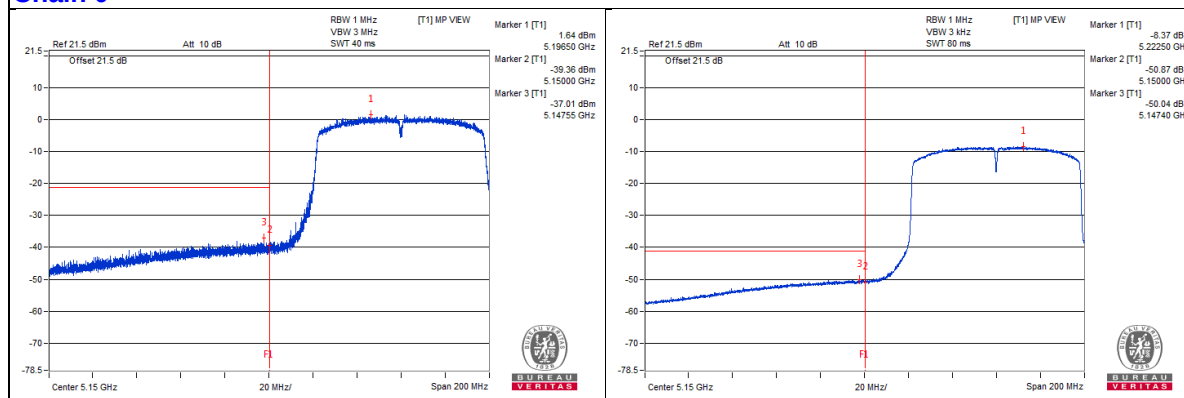
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5352.52 PK	65.15	74	-8.85	-42.26	-40.56	8.21	-30.11
2	5385.87 AV	53.43	54	-0.57	-53.23	-52.87	8.21	-41.83

Note :

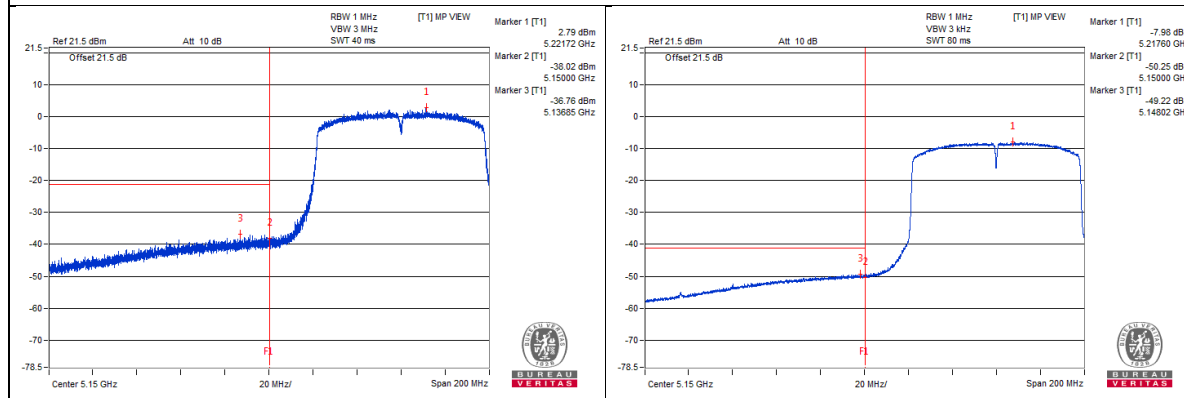
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



802.11ac (VHT80) - Channel 58

Conducted spurious emission table

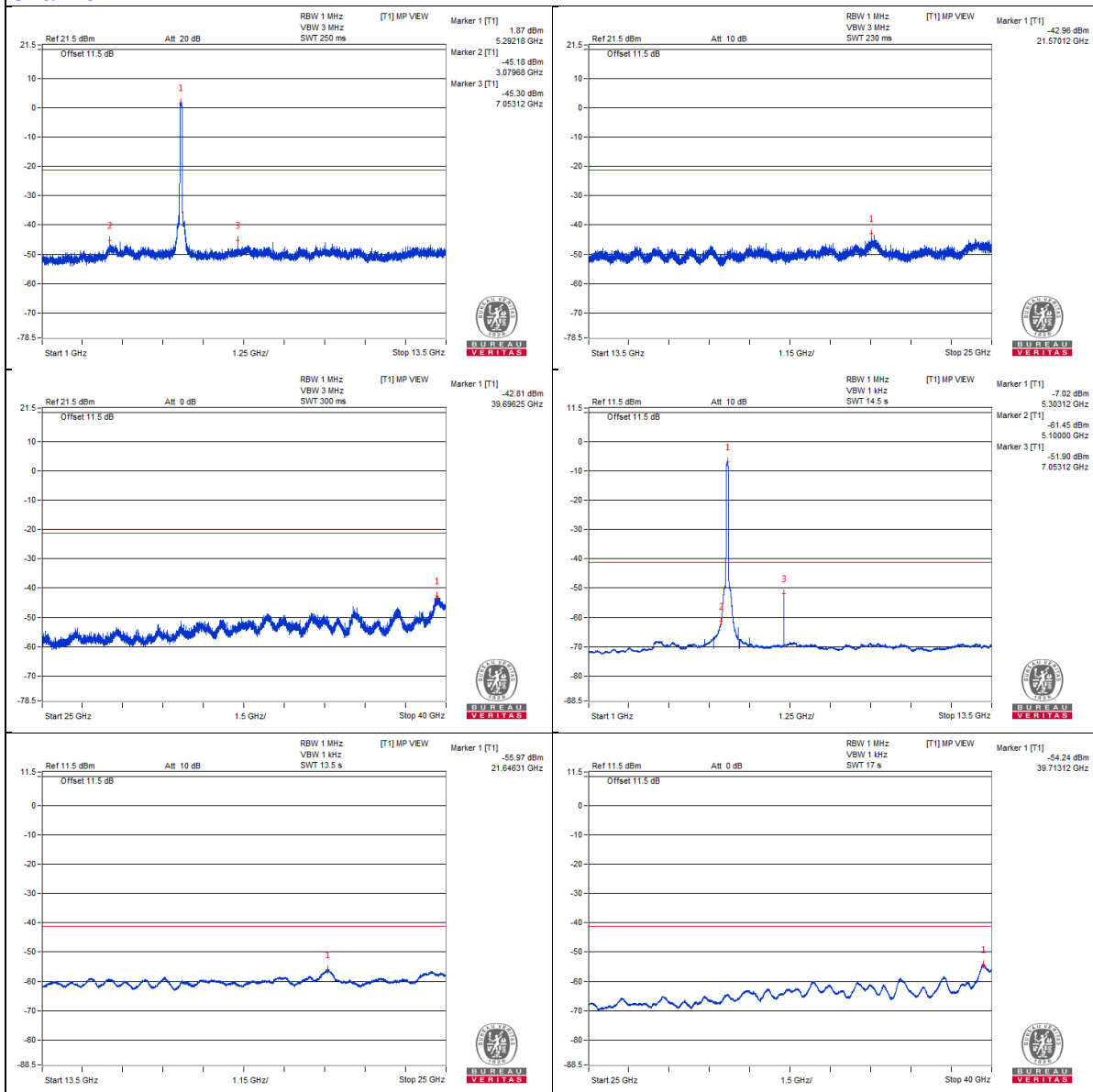
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3545.31 PK	58.29	74	-15.71	-47.32	-49.27	8.21	-36.97
2	3545.31 AV	37.39	54	-16.61	-69.12	-69.06	8.21	-57.87
3	7053.12 PK	60.06	68.2	-8.14	-45.3	-47.92	8.21	-35.2
4	10564.06 PK	57.76	68.2	-10.44	-49.67	-47.94	8.21	-37.5
5	15857.5 PK	57.65	74	-16.35	-48.46	-49.23	8.21	-37.61
6	15860.37 AV	46.34	54	-7.66	-60.23	-60.05	8.21	-48.92

Note :

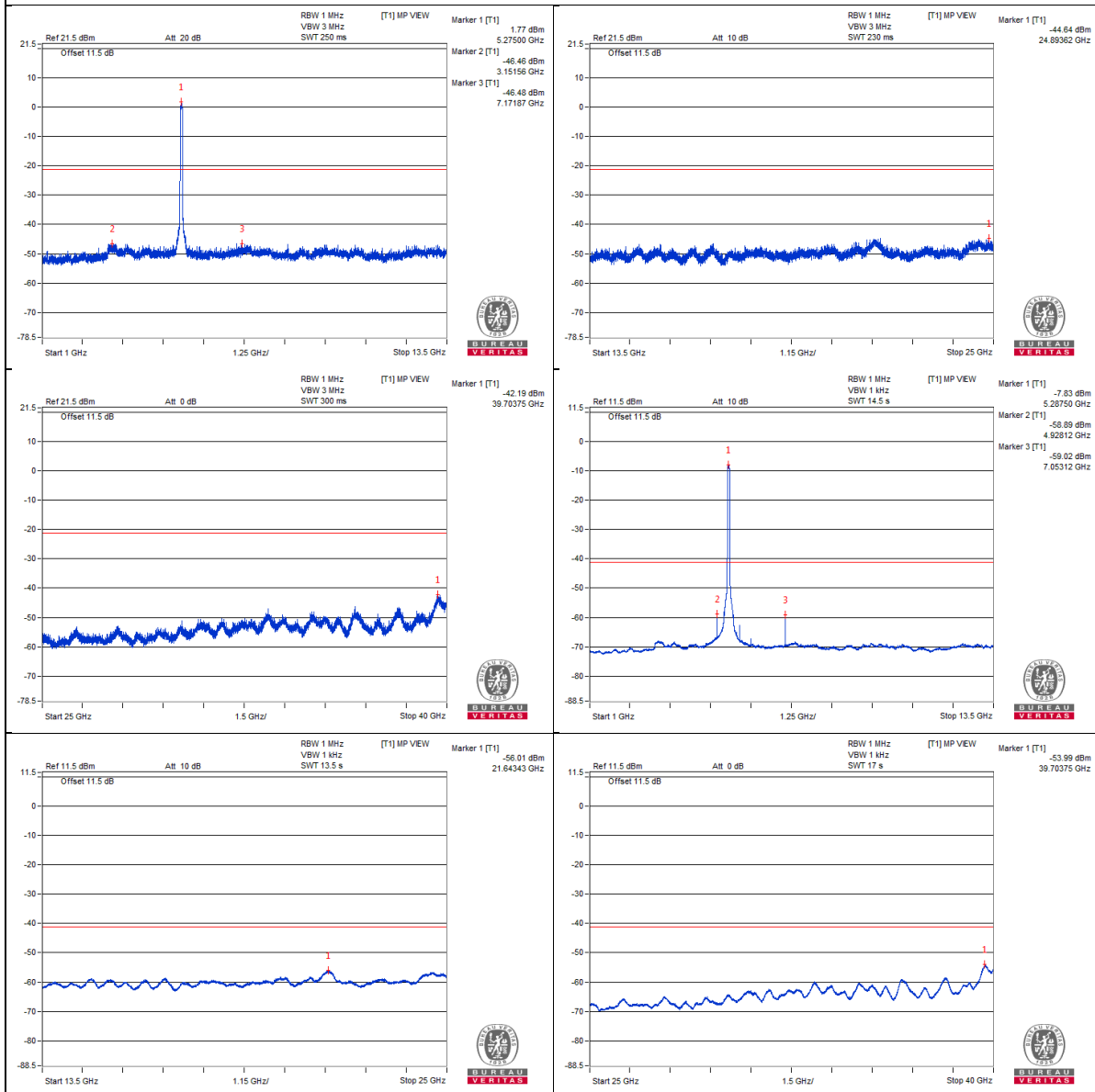
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



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	5454.81 PK	66.94	74	-7.06	-41.17	-39.31	8.81	-28.32
2	5459.93 AV	55.35	54	* 1.35	-52.59	-51.02	8.81	-39.91
3	5462.15 PK	66.93	68.2	-1.27	-42.36	-38.69	8.81	-28.33

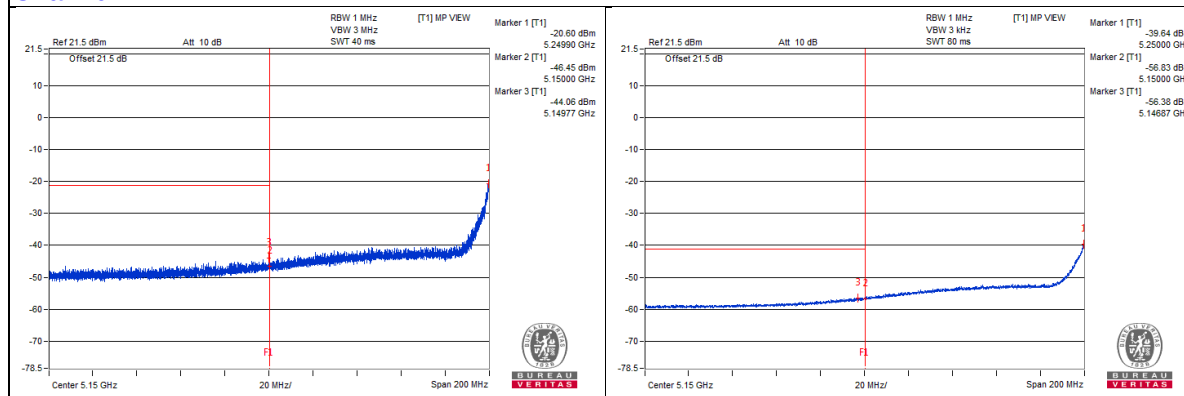
Note :

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

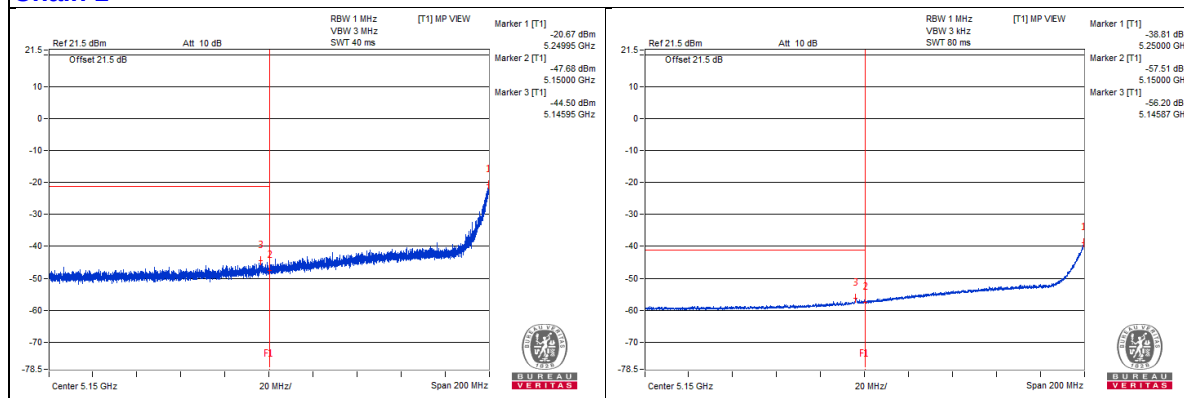
d = measurement distance in 3 meters.

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

Chain 0



Chain 1



802.11ac (VHT80) - Channel 106

Conducted spurious emission table

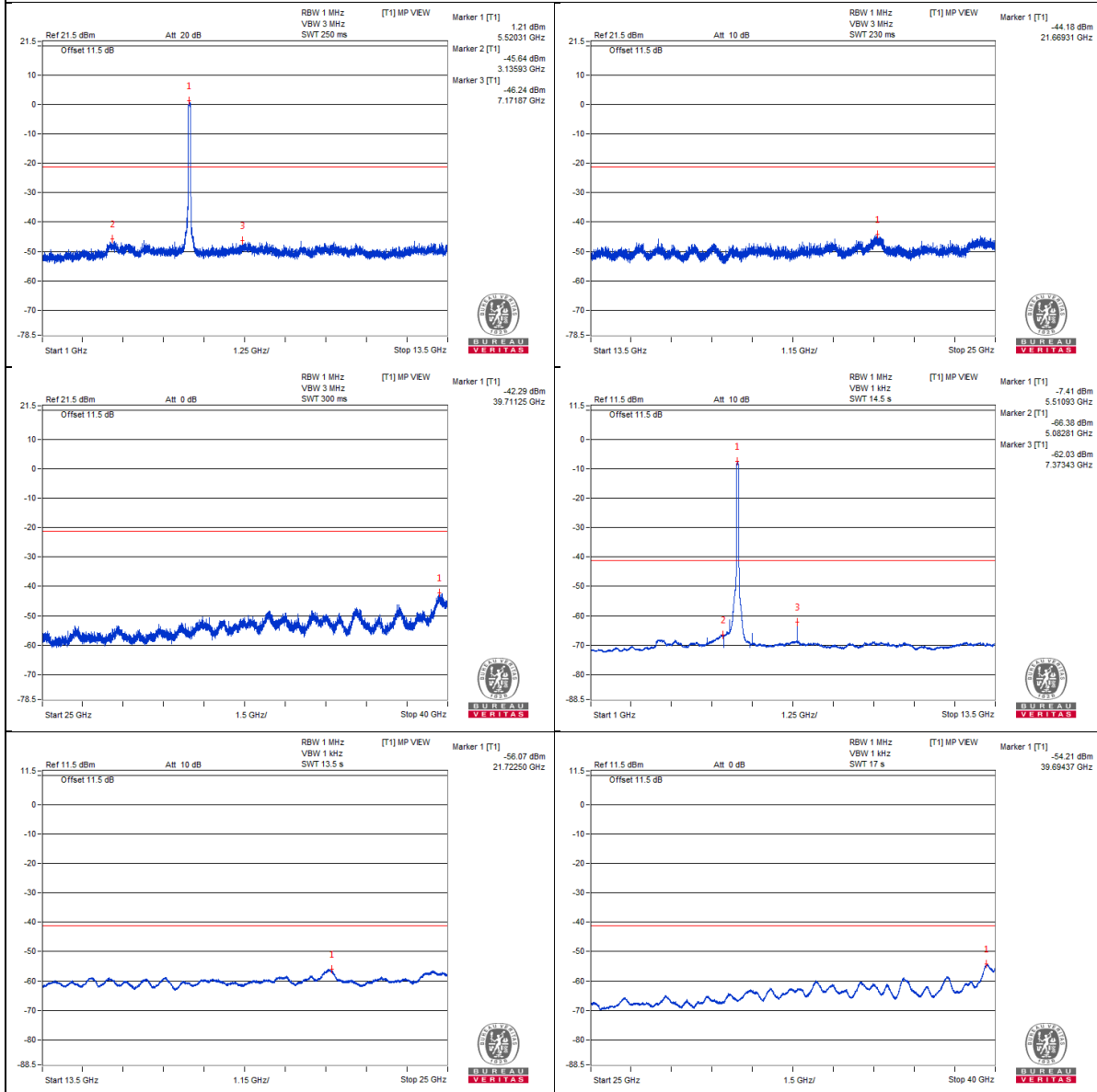
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3706.25 PK	58.7	74	-15.3	-47.71	-49.18	8.81	-36.56
2	3690.62 AV	37.72	54	-16.28	-69.08	-69.66	8.81	-57.54
3	7360.93 PK	60.67	74	-13.33	-47.14	-45.79	8.81	-34.59
4	7373.43 AV	42.93	54	-11.07	-62.03	-68.47	8.81	-52.33
5	11053.12 PK	56.61	74	-17.39	-50.72	-50.23	8.81	-38.65
6	11075 AV	35.97	54	-18.03	-71.09	-71.13	8.81	-59.29
7	16576.25 PK	56.65	68.2	-11.55	-50.38	-50.49	8.81	-38.61

Note :

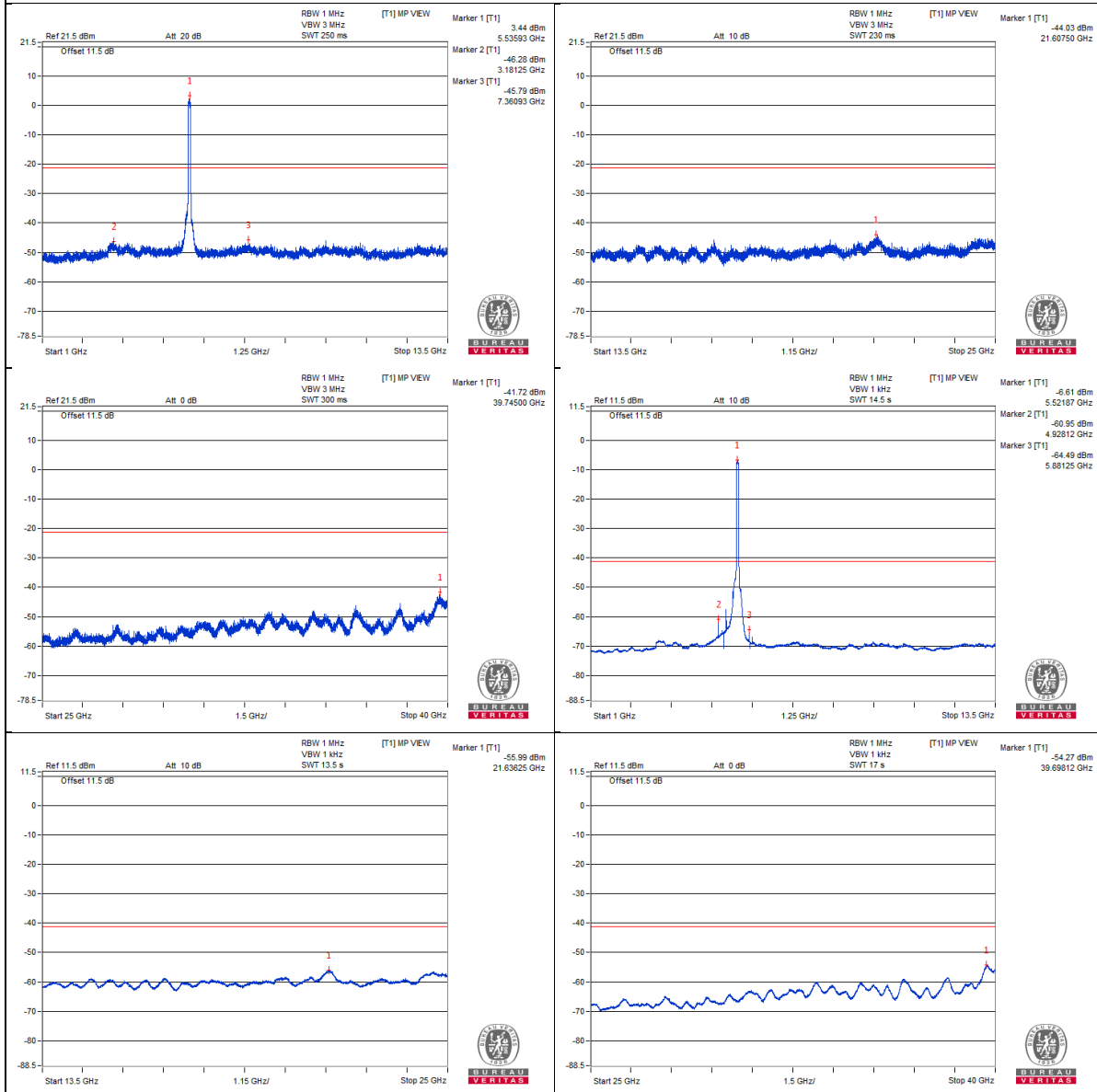
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

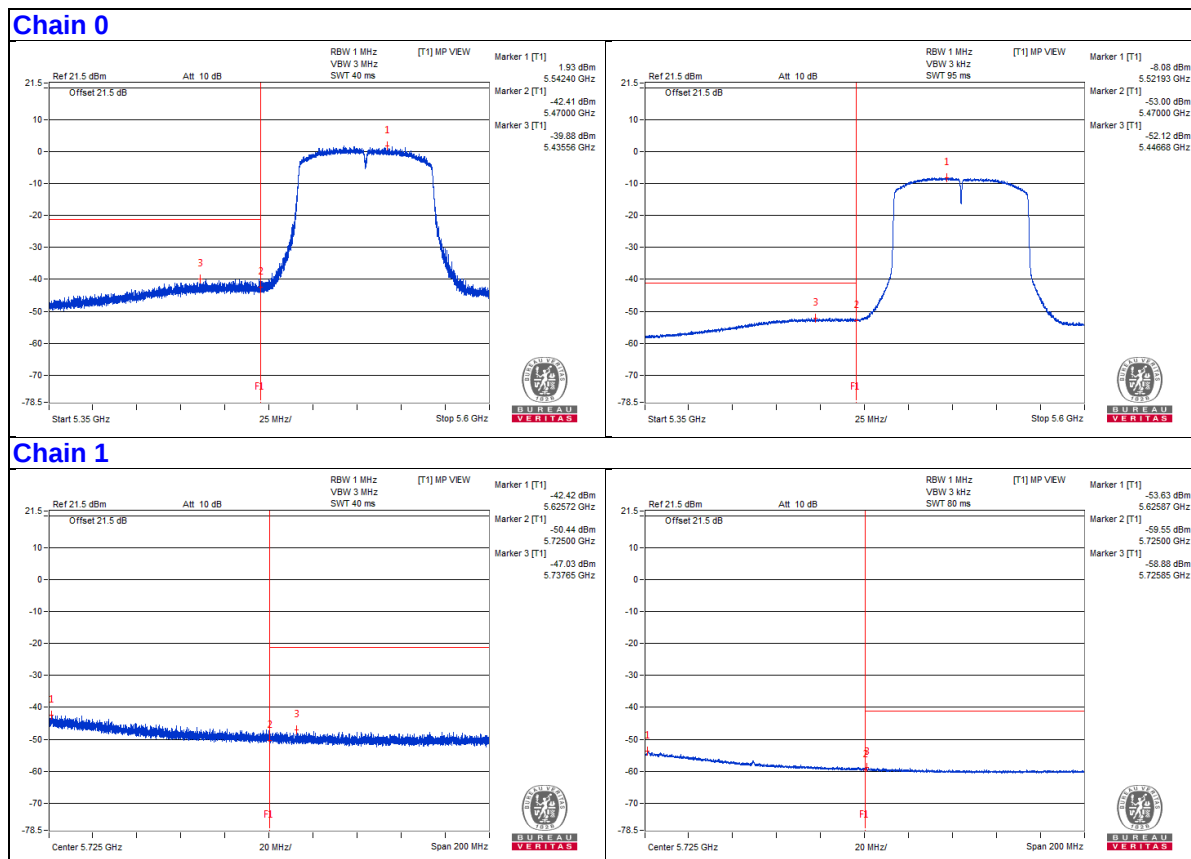
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5454.81 PK	66.94	74	-7.06	-41.17	-39.31	8.81	-28.32
2	5459.93 AV	55.35	54	* 1.35	-52.59	-51.02	8.81	-39.91
3	5462.15 PK	66.93	68.2	-1.27	-42.36	-38.69	8.81	-28.33

Note :

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

d = measurement distance in 3 meters.

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



802.11ac (VHT80) - Channel 122

Conducted spurious emission table

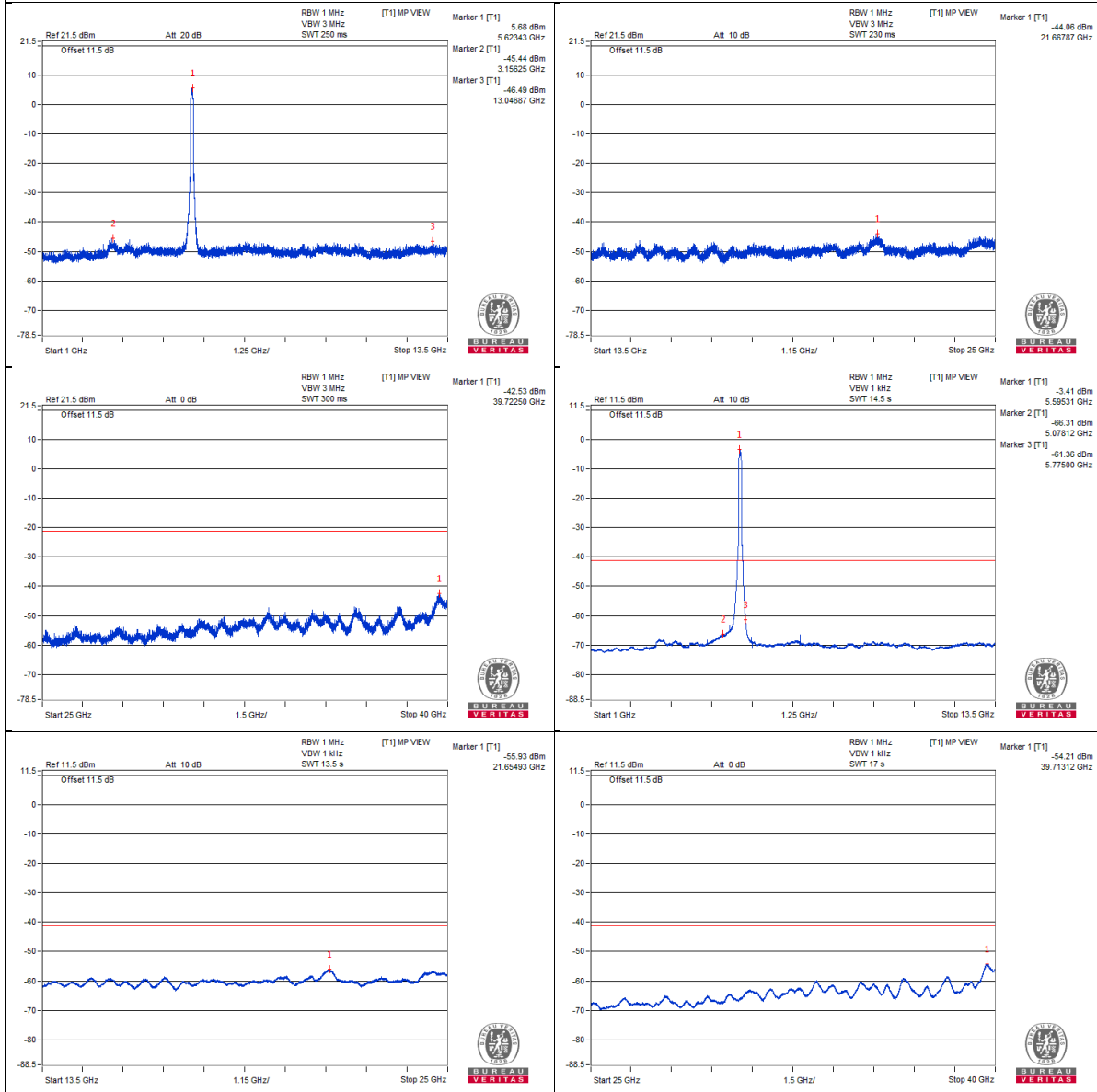
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3725 PK	58.83	74	-15.17	-47.9	-48.63	8.81	-36.43
2	3742.18 AV	37.79	54	-16.21	-69.18	-69.4	8.81	-57.47
3	7490.62 PK	58.01	74	-15.99	-49.87	-48.4	8.81	-37.25
4	7479.68 AV	39.38	54	-14.62	-66.41	-69.55	8.81	-55.88
5	11239.06 PK	57.33	74	-16.67	-49.76	-49.75	8.81	-37.93
6	11220.31 AV	36.8	54	-17.2	-70.5	-70.08	8.81	-58.46
7	16843.62 PK	57.89	68.2	-10.31	-48.37	-50.21	8.81	-37.37

Note :

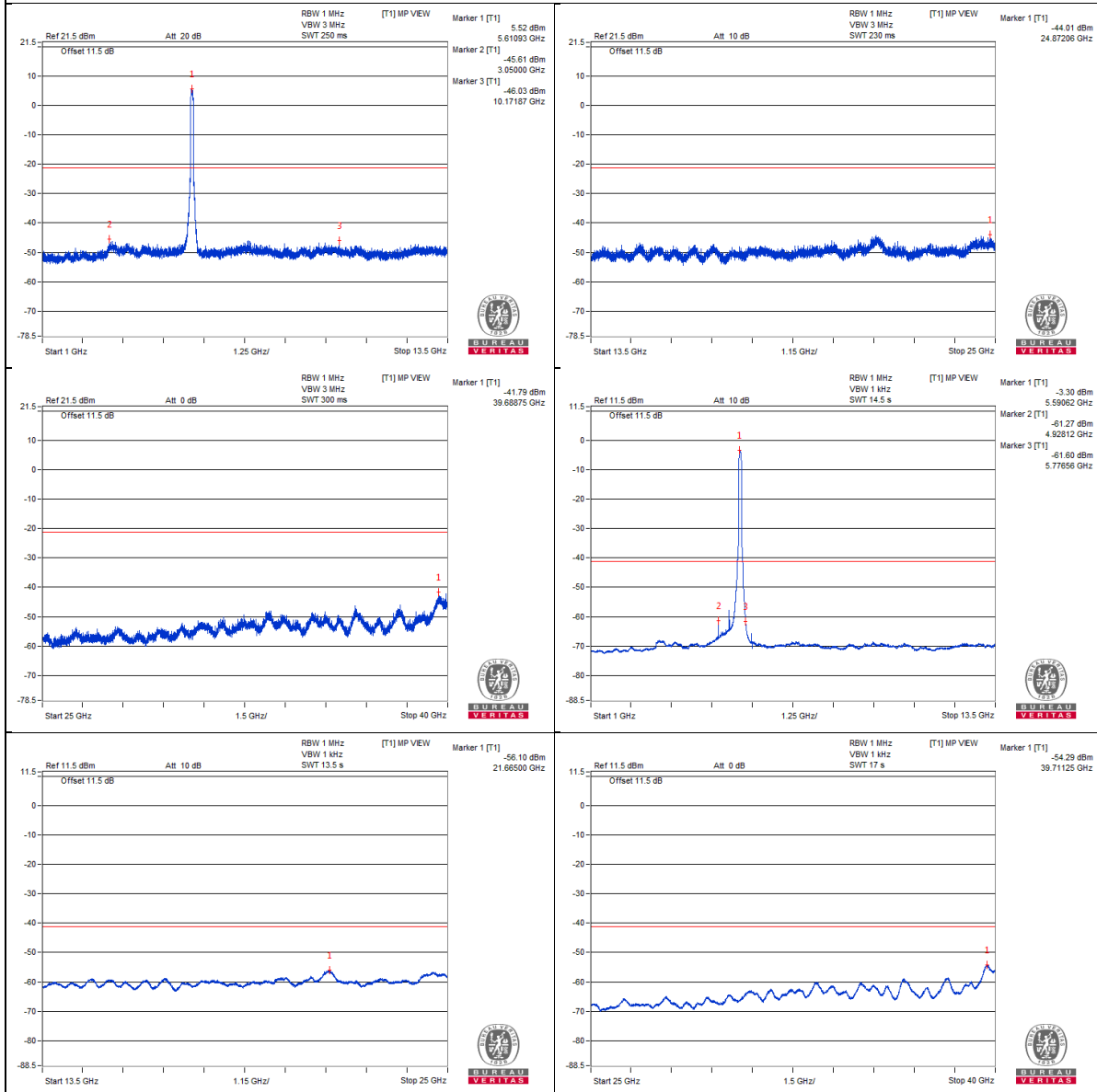
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

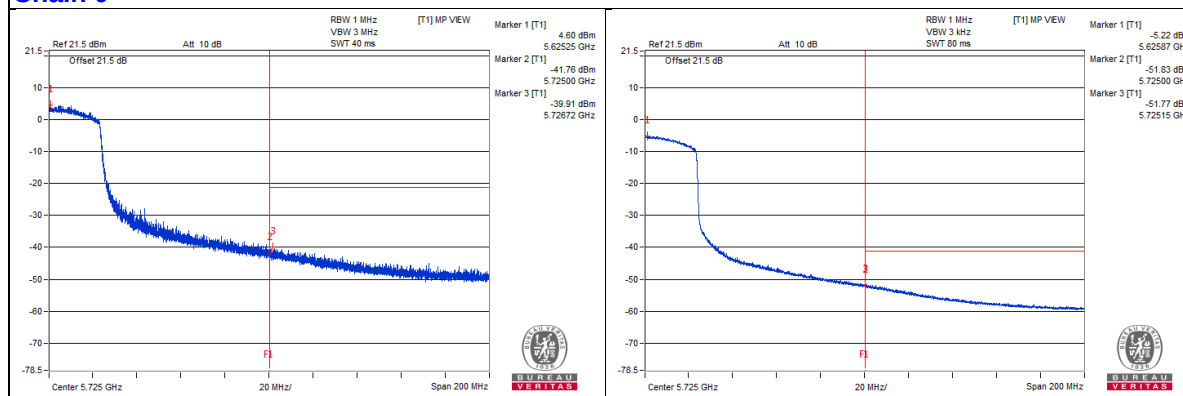
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5726.57 PK	67.14	68.2	-1.06	-41.74	-38.67	8.81	-28.12

Note :

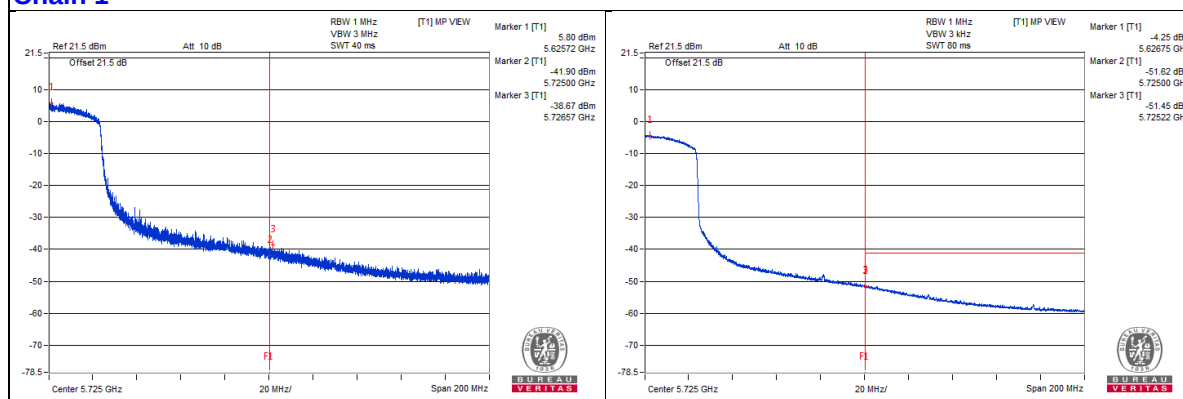
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



802.11ac (VHT80) - Channel 138

Conducted spurious emission table

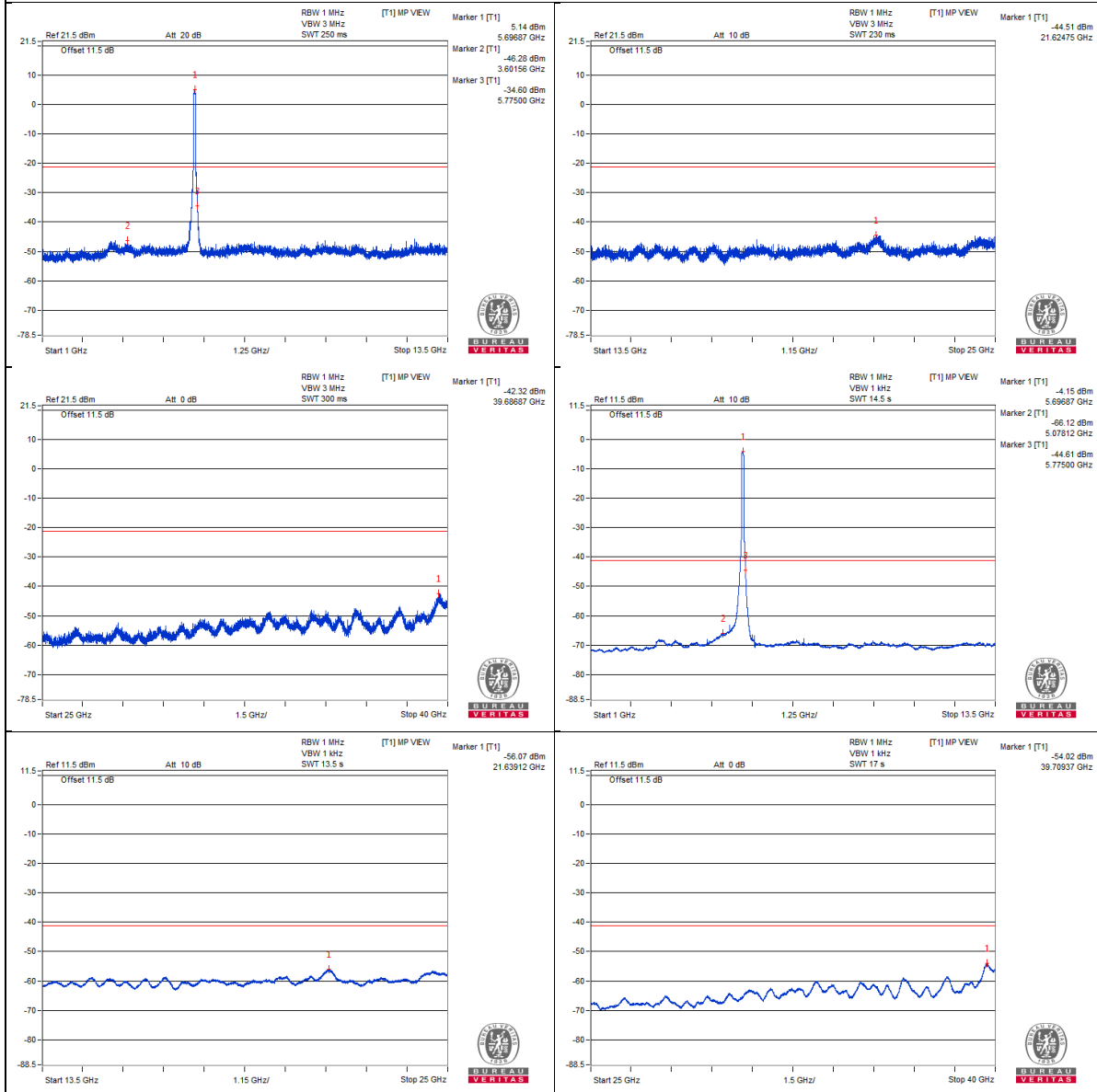
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3773.43 PK	58.05	74	-15.95	-49.08	-48.98	8.81	-37.21
2	3773.43 AV	37.52	54	-16.48	-69.39	-69.73	8.81	-57.74
3	7589.06 PK	58.31	74	-15.69	-48.57	-48.97	8.81	-36.95
4	7587.5 AV	38.46	54	-15.54	-67.75	-69.72	8.81	-56.8
5	11392.18 PK	57.15	74	-16.85	-50.08	-49.79	8.81	-38.11
6	11368.75 AV	36.57	54	-17.43	-70.56	-70.46	8.81	-58.69
7	17053.5 PK	58.23	68.2	-9.97	-47.82	-50.2	8.81	-37.03

Note :

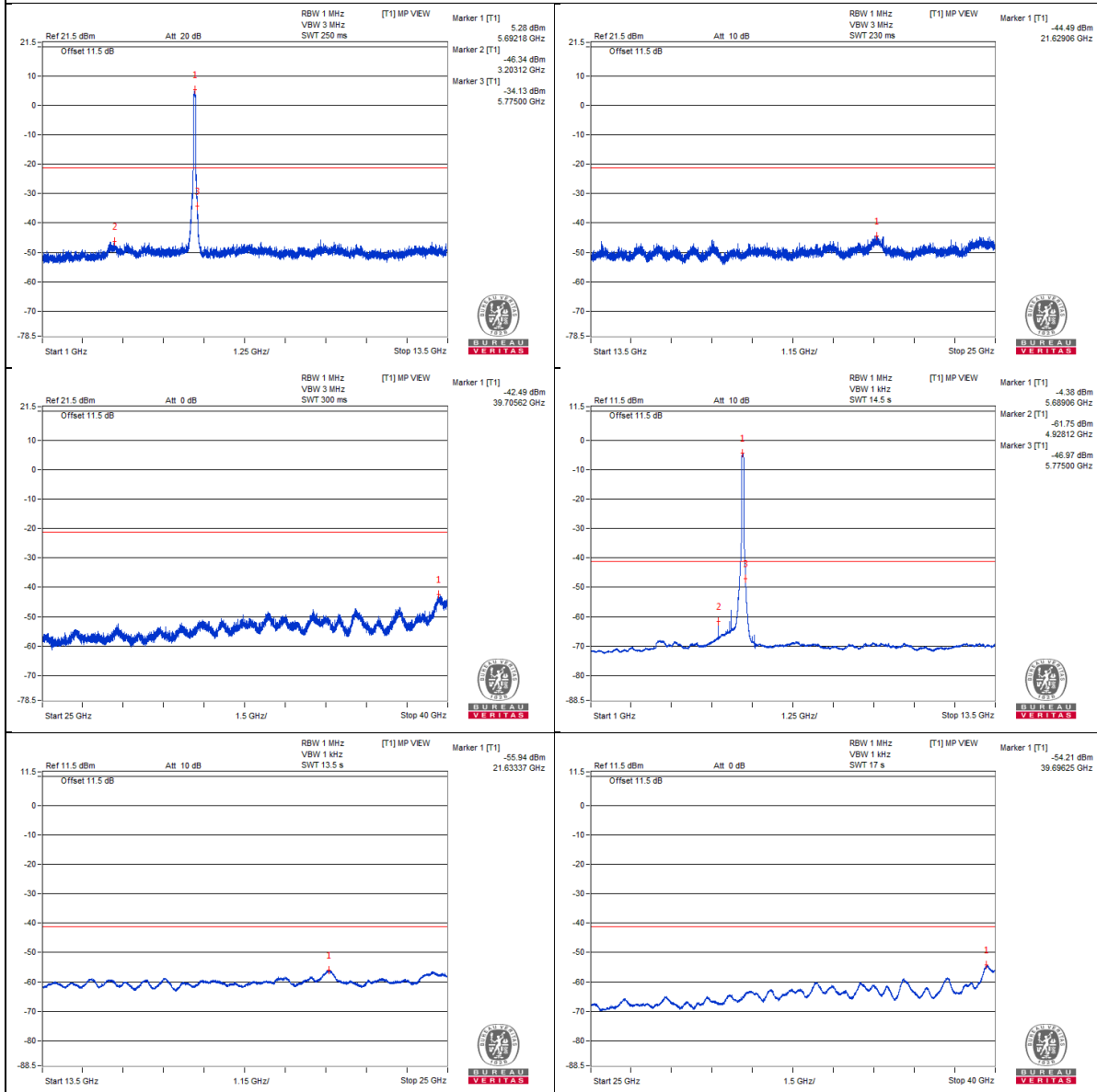
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



Bandedge table

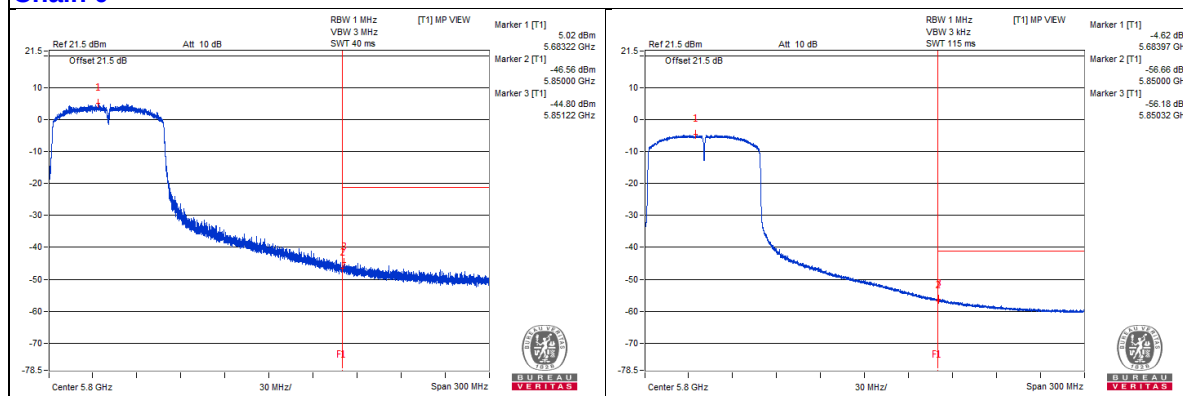
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	5828.57 PK	64.37	68.2	-3.83	-41.07	-45.38	8.81	-30.89

Note :

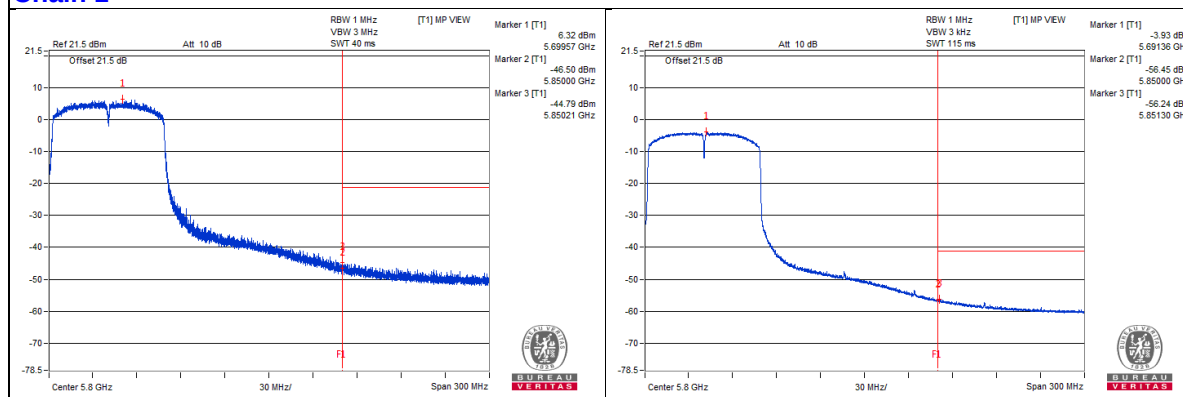
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0



Chain 1



802.11ac (VHT80) - Channel 155

Conducted spurious emission table

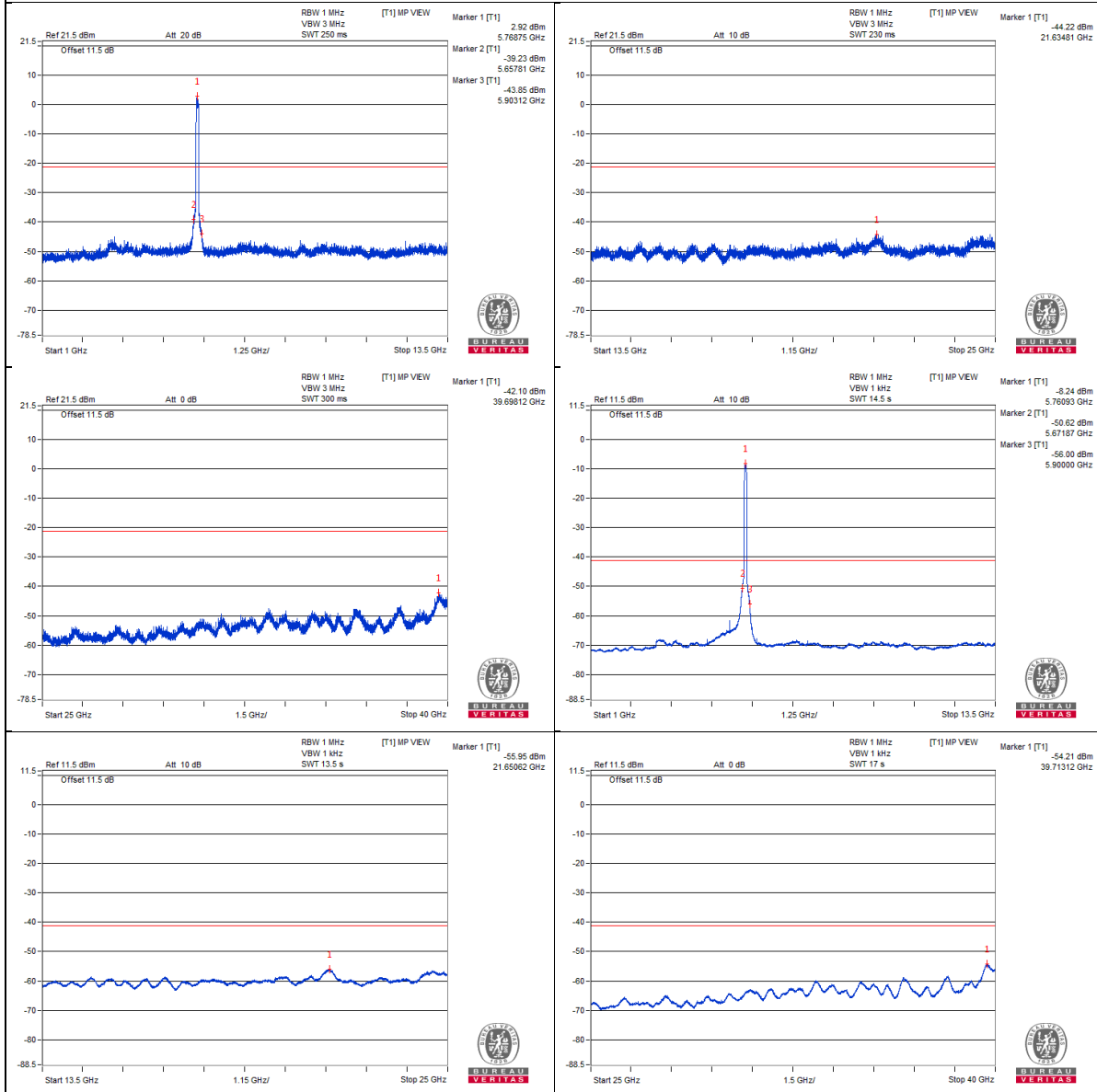
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	3835.93 PK	57.21	74	-16.79	-50.02	-49.73	8.81	-38.05
2	3832.81 AV	36.76	54	-17.24	-70.3	-70.34	8.81	-58.5
3	7704.68 PK	59.5	74	-14.5	-49.61	-46.2	8.81	-35.76
4	7700 AV	37.94	54	-16.06	-68.61	-69.74	8.81	-57.32
5	11554.68 PK	56.96	74	-17.04	-50.18	-50.07	8.81	-38.3
6	11537.5 AV	36.15	54	-17.85	-70.99	-70.87	8.81	-59.11
7	17335.25 PK	55.68	68.2	-12.52	-53.06	-50.21	8.81	-39.58

Note :

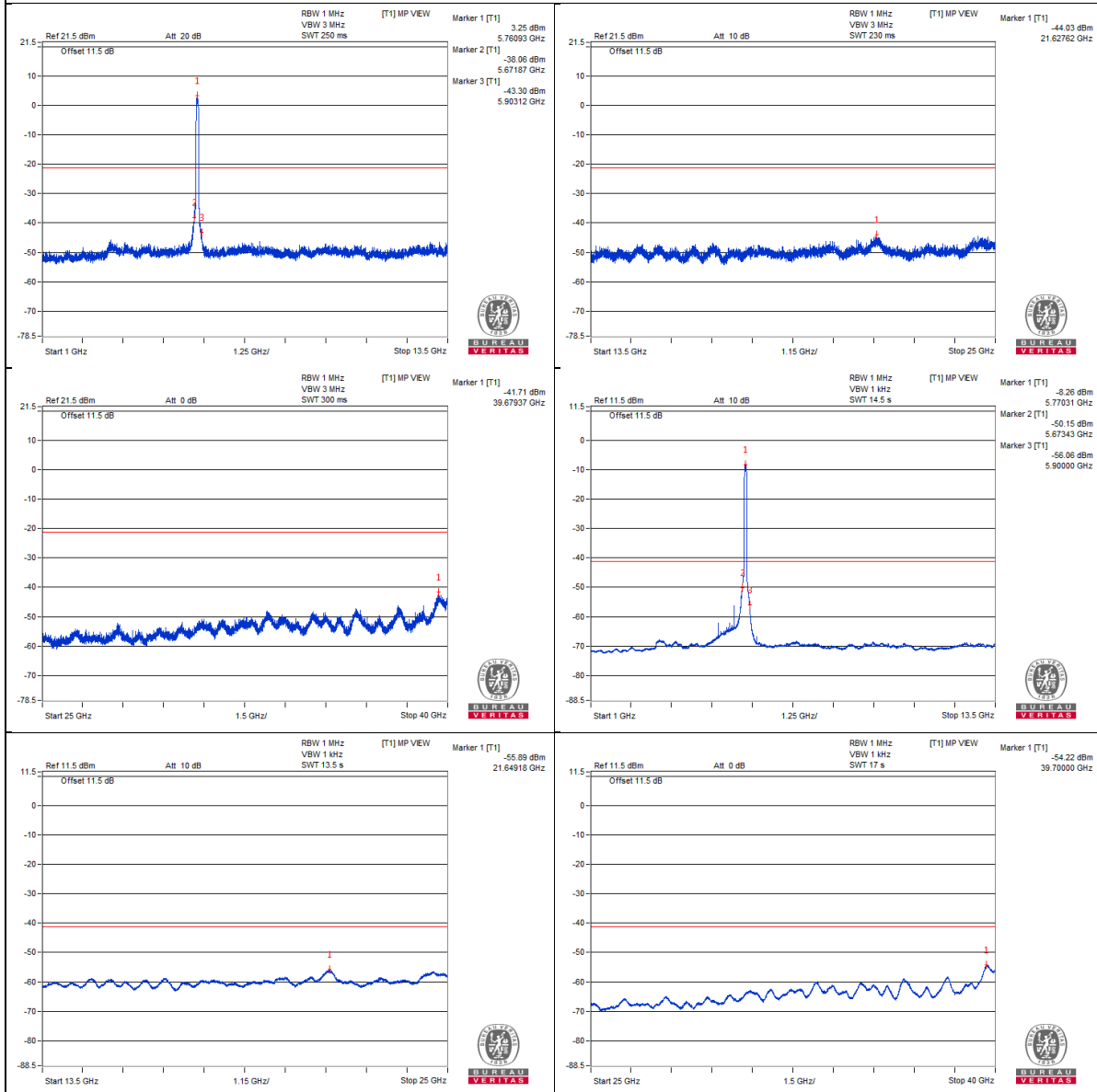
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

Chain 0

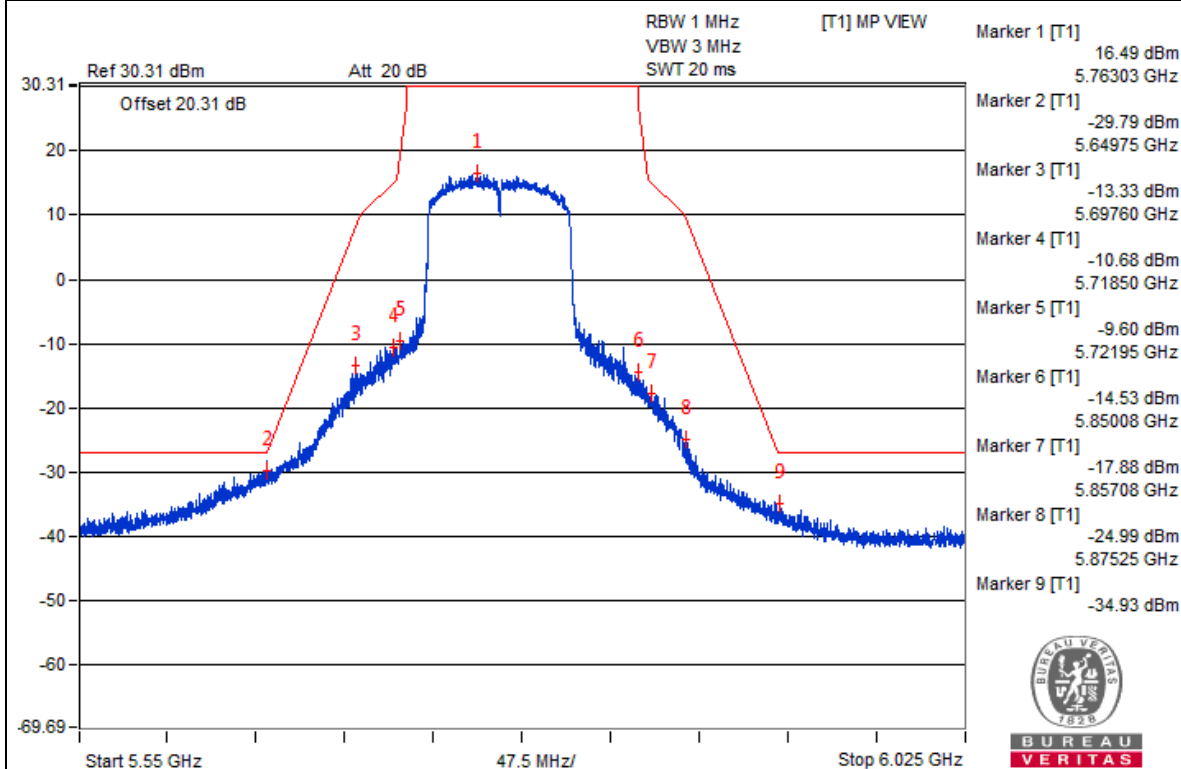


Chain 1

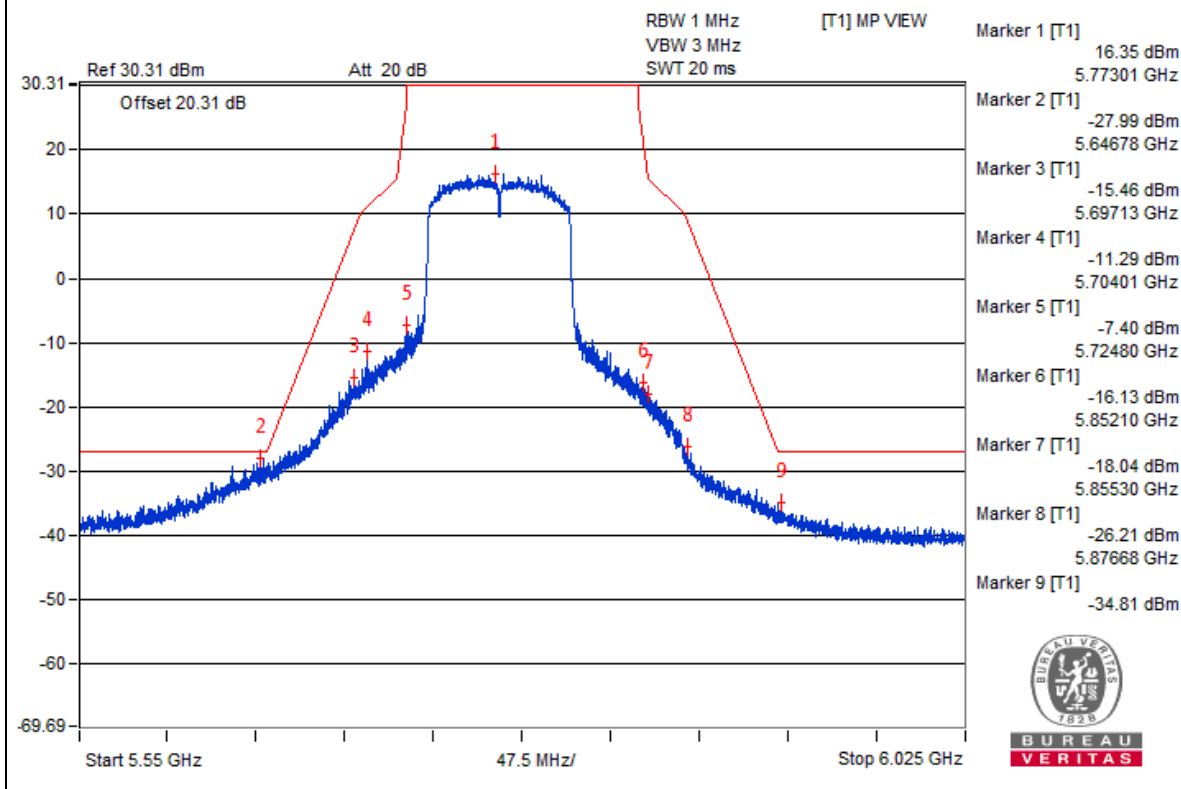


Bandedge table

Chain 0



Chain 1



Below 1GHz Data

802.11ac (VHT20) - Channel 60

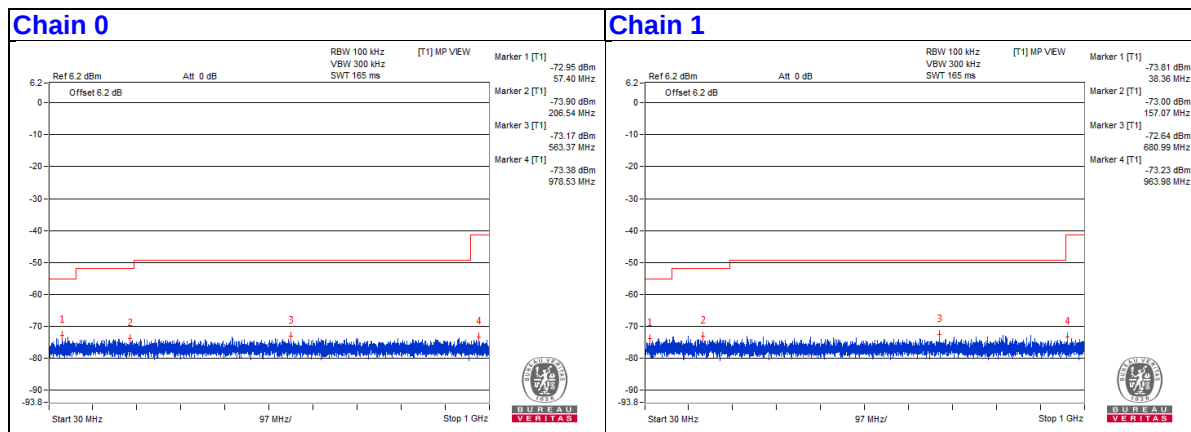
Conducted spurious emission table

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain0	Chain1		
1	58.13	31.84	40	-8.16	-75.13	-73.84	8.01	-63.42
2	91.83	32	43.5	-11.5	-75.41	-73.38	8.01	-63.26
3	359.43	31.88	46	-14.12	-75.16	-73.75	8.01	-63.38
4	433.52	32.33	46	-13.67	-73.44	-74.52	8.01	-62.93
5	680.99	32.06	46	-13.94	-76.74	-72.64	8.01	-63.2
6	935.85	31.97	46	-14.03	-73.75	-74.95	8.01	-63.29

Note :

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

d = measurement distance in 3 meters.



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 $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Client device	250mW (24 dBm)
U-NII-2A		√	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C		√	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3		√	1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

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

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

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

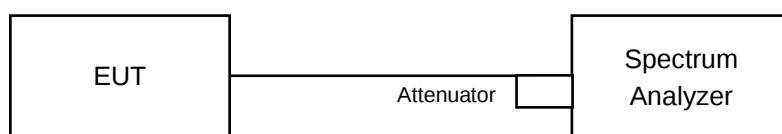
Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

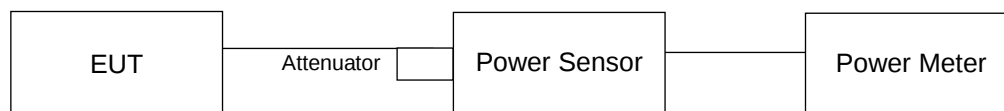
4.2.2 Test Setup

FOR POWER OUTPUT MEASUREMENT

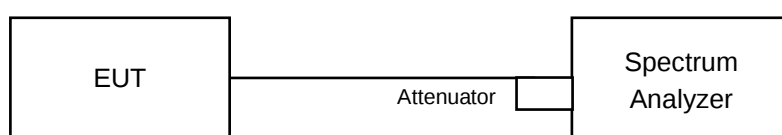
For channel straddling 5725MHz:



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 AVERAGE POWER MEASUREMENT

For channel straddling 5725MHz:

Follow FCC KDB 789033 UNII test procedure:

802.11ac (VHT80)

Method SA-2

1. Set span to encompass the emission bandwidth (EBW) of the signal.
2. Set RBW = 1MHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$.
5. Sweep time = auto.
6. Detector = RMS.
7. Trace average at least 100 traces in power averaging mode
8. Compute power by integrating the spectrum across the 26 dB EBW of the signal.
9. Duty factor need added to measured value (duty cycle < 98 percent).

Other Modulation mode

Method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1MHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$.
5. Sweep time = auto.
6. Set trigger to free run (duty cycle ≥ 98 percent) ; Set video trigger (duty cycle < 98 percent)
7. Detector = RMS.
8. Trace average at least 100 traces in power averaging mode
9. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

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 Result

802.11a

Power Output:

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	17.25	17.40	108.042	20.34	24.00	Pass
40	5200	17.27	17.32	107.284	20.31	24.00	Pass
48	5240	17.51	17.55	113.249	20.54	24.00	Pass
52	5260	17.47	17.64	113.923	20.57	24.00	Pass
60	5300	17.60	17.79	117.661	20.71	24.00	Pass
64	5320	14.91	15.35	65.251	18.15	23.90	Pass
100	5500	14.57	15.19	61.679	17.90	23.84	Pass
116	5580	17.11	17.59	108.816	20.37	24.00	Pass
140	5700	14.23	14.43	54.218	17.34	23.88	Pass
*144 (UNII-2C Band)	5720	12.95	12.51	37.548	15.75	23.02	Pass
*144 (UNII-3 Band)	5720	5.79	5.22	7.12	8.52	30.00	Pass
149	5745	17.46	17.32	109.67	20.40	30.00	Pass
157	5785	17.41	17.48	111.057	20.46	30.00	Pass
165	5825	17.33	17.21	106.677	20.28	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 Average Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
144	5720	44.668	16.5

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.27	20.71
60	5300	20.46	20.96
64	5320	19.85	19.52
100	5500	20.05	19.25
116	5580	21.33	19.60
140	5700	19.69	19.43
144 (UNII-2C Band)	5720	16.49	15.93

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	20.27	24.06 > 24
60	5300	20.46	24.1 > 24
64	5320	19.51	23.9 < 24
100	5500	19.24	23.84 < 24
116	5580	19.60	23.92 < 24
140	5700	19.42	23.88 < 24
144 (UNII-2C Band)	5720	15.93	23.02 < 24

802.11ac (VHT20)

Power Output:

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	16.88	17.13	100.395	20.02	24.00	Pass
40	5200	17.52	17.57	113.642	20.56	24.00	Pass
48	5240	17.65	17.78	118.189	20.73	24.00	Pass
52	5260	17.56	17.63	114.959	20.61	24.00	Pass
60	5300	17.35	17.37	108.901	20.37	24.00	Pass
64	5320	14.74	14.77	59.777	17.77	24.00	Pass
100	5500	14.92	15.50	66.527	18.23	24.00	Pass
116	5580	17.32	17.75	113.517	20.55	24.00	Pass
140	5700	14.00	14.30	52.034	17.16	24.00	Pass
*144 (UNII-2C Band)	5720	12.72	12.37	35.965	15.56	23.01	Pass
*144 (UNII-3 Band)	5720	5.93	5.44	7.416	8.70	30.00	Pass
149	5745	17.72	17.36	113.606	20.55	30.00	Pass
157	5785	17.39	17.46	110.547	20.44	30.00	Pass
165	5825	17.05	17.08	101.749	20.08	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 Average Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
144	5720	43.381	16.37

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	22.72	21.34
60	5300	22.08	21.41
64	5320	20.51	20.20
100	5500	21.34	20.30
116	5580	23.58	20.85
140	5700	20.61	20.71
144 (UNII-2C Band)	5720	17.73	15.90

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	21.34	24.29 > 24
60	5300	21.40	24.3 > 24
64	5320	20.19	24.05 > 24
100	5500	20.29	24.07 > 24
116	5580	20.85	24.19 > 24
140	5700	20.60	24.13 > 24
144 (UNII-2C Band)	5720	15.90	23.01 < 24

802.11ac (VHT40)

Power Output:

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	13.47	13.92	46.893	16.71	24.00	Pass
46	5230	17.12	17.26	104.734	20.20	24.00	Pass
54	5270	17.36	17.43	109.785	20.41	24.00	Pass
62	5310	14.37	14.79	57.483	17.60	24.00	Pass
102	5510	12.60	13.15	38.851	15.89	24.00	Pass
110	5550	16.87	17.49	104.746	20.20	24.00	Pass
134	5670	16.82	17.26	101.295	20.06	24.00	Pass
*142 (UNII-2C Band)	5710	12.88	12.78	38.376	15.84	24.00	Pass
*142 (UNII-3 Band)	5710	0.93	0.07	2.255	3.53	30.00	Pass
151	5755	17.35	17.15	106.205	20.26	30.00	Pass
159	5795	17.41	17.29	108.661	20.36	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 Average Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
142	5710	40.631	16.09

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	43.34	42.44
62	5310	42.02	41.70
102	5510	42.20	41.64
110	5550	48.56	42.60
134	5670	42.99	42.37
142 (UNII-2C Band)	5710	40.20	36.74

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	42.44	27.27 > 24
62	5310	41.69	27.2 > 24
102	5510	41.63	27.19 > 24
110	5550	42.60	27.29 > 24
134	5670	42.37	27.27 > 24
142 (UNII-2C Band)	5710	36.74	26.65 > 24

802.11ac (VHT80)

Power Output:

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	12.87	13.17	40.113	16.03	24.00	Pass
58	5290	11.52	11.88	29.608	14.71	24.00	Pass
106	5530	11.97	12.49	33.482	15.25	24.00	Pass
122	5610	16.24	16.63	88.099	19.45	24.00	Pass
*138 (UNII-2C Band)	5690	11.16	10.78	25.679	14.10	24.00	Pass
*138 (UNII-3 Band)	5690	-4.53	-5.79	0.632	-1.99	30.00	Pass
155	5775	16.85	16.57	93.811	19.72	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Average Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
138	5690	26.311	14.2

Note: The total power was calculated through formula and record the value for reference only.

26dB OCCUPIED BANDWIDTH

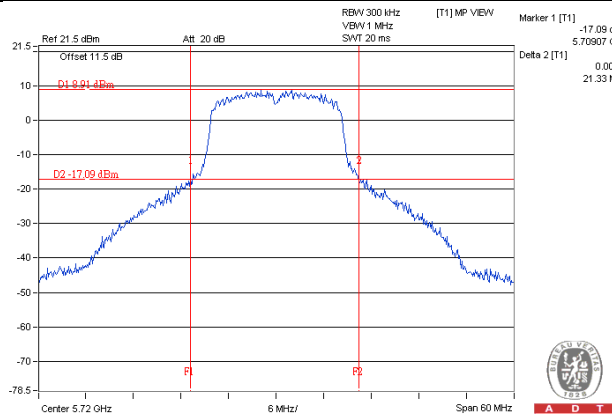
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.22	83.86
106	5530	83.39	82.55
122	5610	92.36	83.58
138 (UNII-2C Band)	5690	77.98	76.93

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

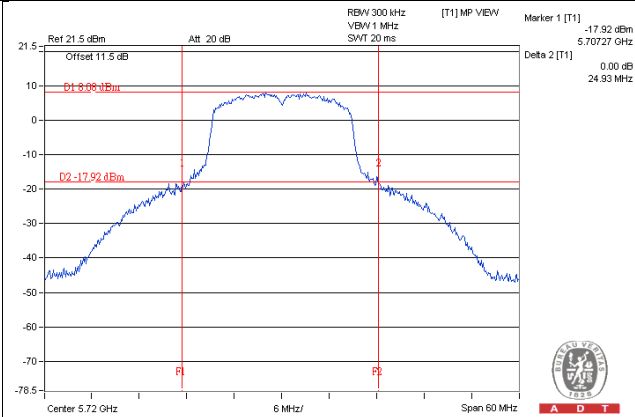
Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	83.21	30.2 > 24
106	5530	82.55	30.16 > 24
122	5610	83.58	30.22 > 24
138 (UNII-2C Band)	5690	76.93	29.86 > 24

Spectrum Plot of Worst Value

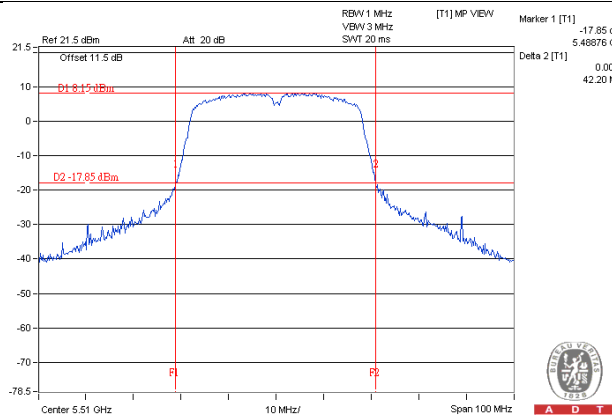
802.11a / Chain 1 : CH144 (UNII-2C)



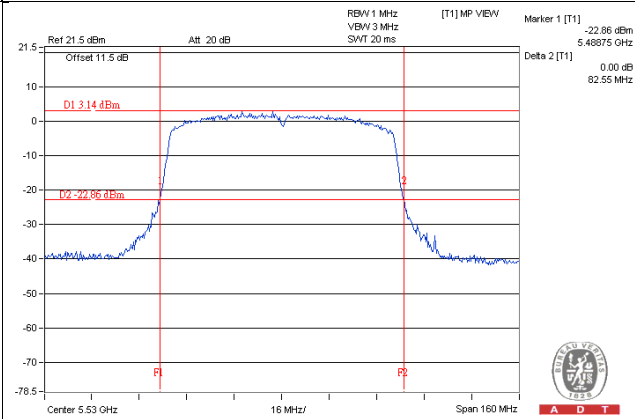
802.11ac (VHT20) / Chain 0 : CH144 (UNII-2C)



802.11ac (VHT40) / Chain 0 : CH102



802.11ac (VHT80) / Chain 1 : CH106



NOTE:

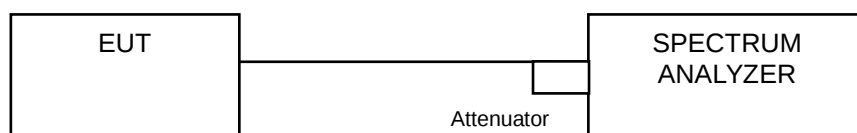
For CH144 (UNII-2C Band) = 5725MHz - Marker 1

4.3 Peak Power Spectral Density Measurement

4.3.1 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

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

802.11a, 802.11ac (VHT20) & 802.11ac (VHT40):

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

Using method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to "free run".
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value

U-NII-3:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
3. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(500 \text{ kHz}/300\text{kHz})$
5. Sweep time = auto, trigger set to "free run".
6. Trace average at least 100 traces in power averaging mode.
7. Record the max value

802.11ac (VHT80):

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

Using method SA-2

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to "free run".
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value and add $10 \log (1/\text{duty cycle})$

For U-NII-3:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
3. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(500 \text{ kHz}/300\text{kHz})$
5. Sweep time = auto, trigger set to "free run".
6. Trace average at least 100 traces in power averaging mode.
7. Record the max value and add $10 \log (1/\text{duty cycle})$

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Condition

Same as Item 4.3.6.

4.3.7 Test Results

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

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm)		Total Power Density (dBm)	MAX. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1			
36	5180	2.62	1.69	5.19	8.79	Pass
40	5200	2.80	1.85	5.36	8.79	Pass
48	5240	2.65	1.80	5.26	8.79	Pass
52	5260	2.39	1.65	5.05	8.79	Pass
60	5300	2.49	1.70	5.12	8.79	Pass
64	5320	0.95	0.05	3.53	8.79	Pass
100	5500	0.83	-0.46	3.24	8.19	Pass
116	5580	2.95	1.96	5.49	8.19	Pass
140	5700	-0.01	-0.73	2.66	8.19	Pass
144 (UNII-2c Band)	5720	3.30	2.99	6.16	8.19	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. UNII-1~2A: Directional gain = $5.2\text{dBi} + 10\log(2) = 8.21\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(8.21-6) = 8.79\text{dBm}$.
3. UNII-2C: Directional gain = $5.8\text{dBi} + 10\log(2) = 8.81\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(8.81-6) = 8.19\text{dBm}$.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm)		Total Power Density (dBm)	MAX. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1			
36	5180	2.19	1.23	4.75	8.79	Pass
40	5200	3.23	2.35	5.82	8.79	Pass
48	5240	3.21	2.30	5.79	8.79	Pass
52	5260	2.89	2.15	5.55	8.79	Pass
60	5300	2.93	2.23	5.60	8.79	Pass
64	5320	0.53	-0.34	3.13	8.79	Pass
100	5500	1.30	0.38	3.87	8.19	Pass
116	5580	2.54	1.68	5.14	8.19	Pass
140	5700	-0.37	-1.02	2.33	8.19	Pass
144 (UNII-2c Band)	5720	2.94	2.72	5.84	8.19	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. UNII-1~2A: Directional gain = $5.2\text{dBi} + 10\log(2) = 8.21\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(8.21-6) = 8.79\text{dBm}$.
3. UNII-2C: Directional gain = $5.8\text{dBi} + 10\log(2) = 8.81\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(8.81-6) = 8.19\text{dBm}$.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm)		Total Power Density (dBm)	MAX. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1			
38	5190	-3.59	-4.86	-1.17	8.79	Pass
46	5230	-0.80	-1.74	1.77	8.79	Pass
54	5270	-1.13	-1.87	1.53	8.79	Pass
62	5310	-2.83	-3.81	-0.28	8.79	Pass
102	5510	-2.72	-3.82	-0.22	8.19	Pass
110	5550	-0.32	-1.30	2.23	8.19	Pass
134	5670	-1.21	-1.61	1.60	8.19	Pass
142 (UNII-2c Band)	5710	-0.23	-0.59	2.60	8.19	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. UNII-1~2A: Directional gain = $5.2\text{dBi} + 10\log(2) = 8.21\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(8.21-6) = 8.79\text{dBm}$.
3. UNII-2C: Directional gain = $5.8\text{dBi} + 10\log(2) = 8.81\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(8.81-6) = 8.19\text{dBm}$.

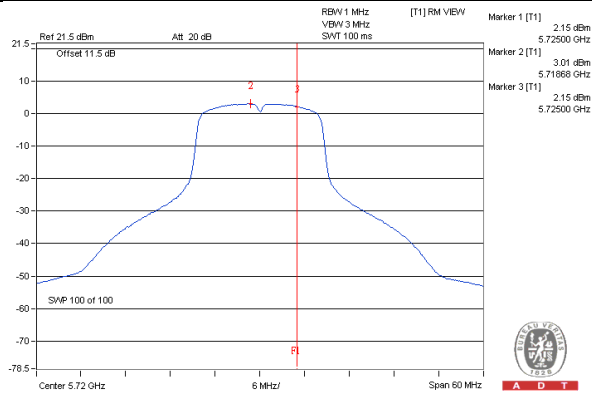
802.11ac (VHT80):

Chan.	Chan. Freq. (MHz)	PSD W/O Duty Factor (dBm)		Duty Factor (dB)	Total PSD With Duty Factor (dBm)	MAX. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-7.72	-8.71	0.11	-5.07	8.79	Pass
58	5290	-9.05	-9.98	0.11	-6.37	8.79	Pass
106	5530	-8.15	-9.11	0.11	-5.48	8.19	Pass
122	5610	-4.60	-5.81	0.11	-2.04	8.19	Pass
138 (UNII-2c Band)	5690	-5.16	-5.73	0.11	-2.32	8.19	Pass

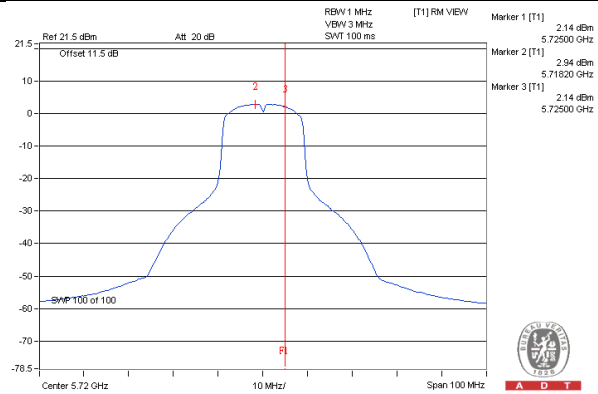
- NOTE:** 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. UNII-1~2A: Directional gain = $5.2\text{dBi} + 10\log(2) = 8.21\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(8.21-6) = 8.79\text{dBm}$.
3. UNII-2C: Directional gain = $5.8\text{dBi} + 10\log(2) = 8.81\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(8.81-6) = 8.19\text{dBm}$.

Spectrum Plot of Worst Value

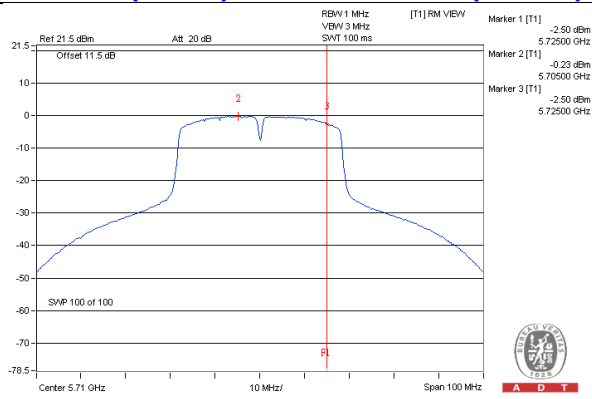
802.11a – Chain 1: CH 144 (UNII-2C)



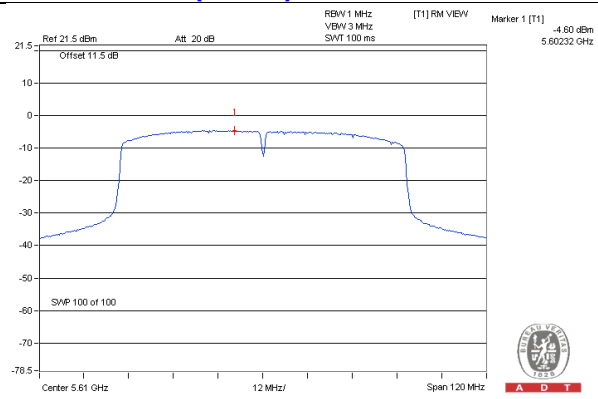
802.11ac (VHT20) – Chain 0: CH 144 (UNII-2C)



802.11ac (VHT40) – Chain 0: CH 142 (UNII-2C)



802.11ac (VHT80) – Chain 0: CH 122



For U-NII-3:

802.11a

Chan.	Freq. (MHz)	PSD (dBm/300kHz)		Total PSD		Total PSD (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass /Fail
		Chain 0	Chain 1	mW/ 300kHz	dBm/ 300kHz			
144 (UNII-3 Band)	5720	-5.03	-5.35	0.6058	-2.18	0.04	27.19	Pass
149	5745	-5.81	-7.35	0.4465	-3.50	-1.28	27.19	Pass
157	5785	-5.34	-5.72	0.5603	-2.52	-0.30	27.19	Pass
165	5825	-5.31	-5.89	0.5521	-2.58	-0.36	27.19	Pass

- Note:** 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 5.8dBi + 10log(2) = 8.81dBi > 6dBi , so the power density limit shall be reduced to 30-(8.81-6) = 27.19dBm.

802.11ac (VHT20)

Chan.	Freq. (MHz)	PSD (dBm/300kHz)		Total PSD		Total PSD (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass /Fail
		Chain 0	Chain 1	mW/ 300kHz	dBm/ 300kHz			
144 (UNII-3 Band)	5720	-5.78	-5.85	0.5243	-2.80	-0.58	27.19	Pass
149	5745	-6.15	-6.83	0.4502	-3.47	-1.25	27.19	Pass
157	5785	-4.98	-5.36	0.6088	-2.16	0.06	27.19	Pass
165	5825	-4.94	-5.42	0.6077	-2.16	0.06	27.19	Pass

- Note:** 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 5.8dBi + 10log(2) = 8.81dBi > 6dBi , so the power density limit shall be reduced to 30-(8.81-6) = 27.19dBm.

802.11ac (VHT40)

Chan.	Freq. (MHz)	PSD (dBm/300kHz)		Total PSD		Total PSD (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass /Fail
		Chain 0	Chain 1	mW/ 300kHz	dBm/ 300kHz			
142 (UNII-3 Band)	5710	-10.25	-10.65	0.18051	-7.43	-5.21	27.19	Pass
151	5755	-10.12	-10.54	0.18558	-7.31	-5.09	27.19	Pass
159	5795	-8.67	-8.76	0.2689	-5.70	-3.48	27.19	Pass

Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. Directional gain = $5.8\text{dBi} + 10\log(2) = 8.81\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(8.81-6) = 27.19\text{dBm}$.

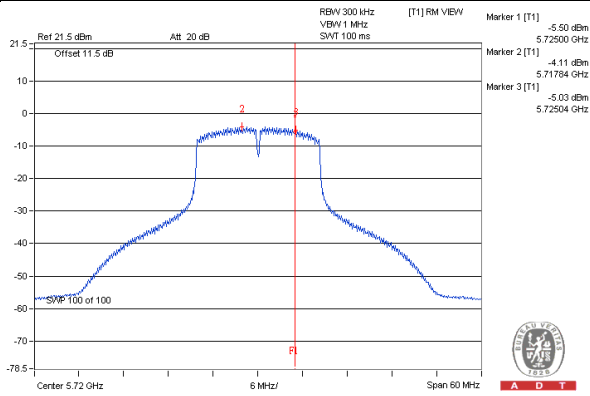
802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/300kHz)		Duty Factor (dB)	Total PSD With Duty Factor		Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass /Fail
		Chain 0	Chain 1		mW/ 300kHz	dBm/ 300kHz			
138 (UNII-3 Band)	5690	-16.79	-17.33	0.11	0.04046	-13.93	-11.71	27.19	Pass
155	5775	-15.42	-15.74	0.11	0.05682	-12.45	-10.23	27.19	Pass

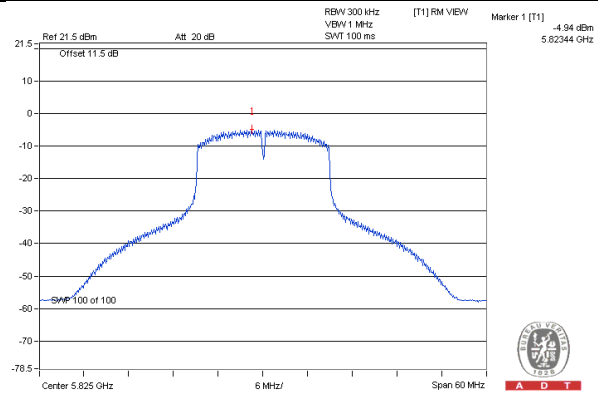
Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. Directional gain = $5.8\text{dBi} + 10\log(2) = 8.81\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(8.81-6) = 27.19\text{dBm}$.
 3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

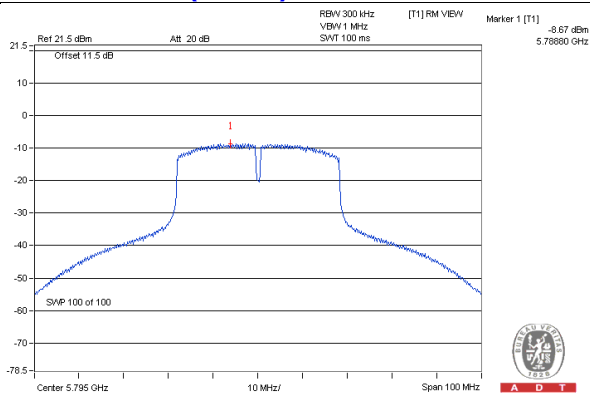
802.11a – Chain 0: CH 144 (UNII-2C)



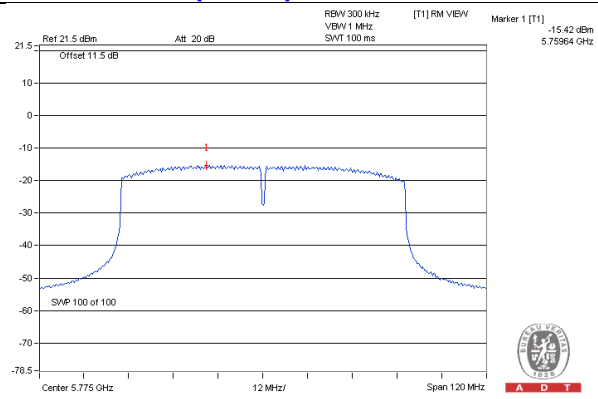
802.11ac (VHT20) – Chain 0: CH 165



802.11ac (VHT40) – Chain 0: CH 159



802.11ac (VHT80) – Chain 0: CH 155



5 Pictures of Test Arrangements

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

6 Appendix A - Radiated Emission Measurement

6.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

NOTE:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 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.

Limits of unwanted emission out of the restricted bands

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK:74 (dBuV/m)	AV:54 (dBuV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)	PK:-27 (dBm/MHz)	PK:68.2(dBuV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	☒ 15.407(b)(4)(i)	PK:-27 (dBm/MHz) ^{*1} PK:10 (dBm/MHz) ^{*2} PK:15.6 (dBm/MHz) ^{*3} PK:27 (dBm/MHz) ^{*4}	PK: 68.2(dBuV/m) ^{*1} PK:105.2 (dBuV/m) ^{*2} PK: 110.8(dBuV/m) ^{*3} PK:122.2 (dBuV/m) ^{*4}
	☐ 15.407(b)(4)(ii)	Emission limits in section 15.247(d)	
^{*1} beyond 75 MHz or more above of the band edge.		^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

Note:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

6.1.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 05, 2018	July 04, 2019
Horn_Antenna SCHWARZBECK	BBHA 9120D	9120D-783	Dec. 12, 2017	Dec. 11, 2018
Pre-Amplifier Mini-Circuits	ZVA-183-S+	AMP-ZVA-03	May 10, 2018	May 09, 2019
RF Cable	EMC104-SM-SM-1200	160923	Jan. 29, 2018	Jan. 28, 2019
RF Cable	EMC104-SM-SM-2000	150318	Jan. 29, 2018	Jan. 28, 2019
RF Cable	EMC104-SM-SM-5000	150321	Jan. 29, 2018	Jan. 28, 2019
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 29, 2018	Jan. 28, 2019
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170608	Dec. 14, 2017	Dec. 13, 2018
RF Cable	EMC102-KM-KM-1200	160925	Jan. 29, 2018	Jan. 28, 2019
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 4.
3. The CANADA Site Registration No. is 20331-2
4. Tested Date: Oct. 30, 2018

6.1.3 Test Procedure

- a. The EUT was placed on the top of a rotating table 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. 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.

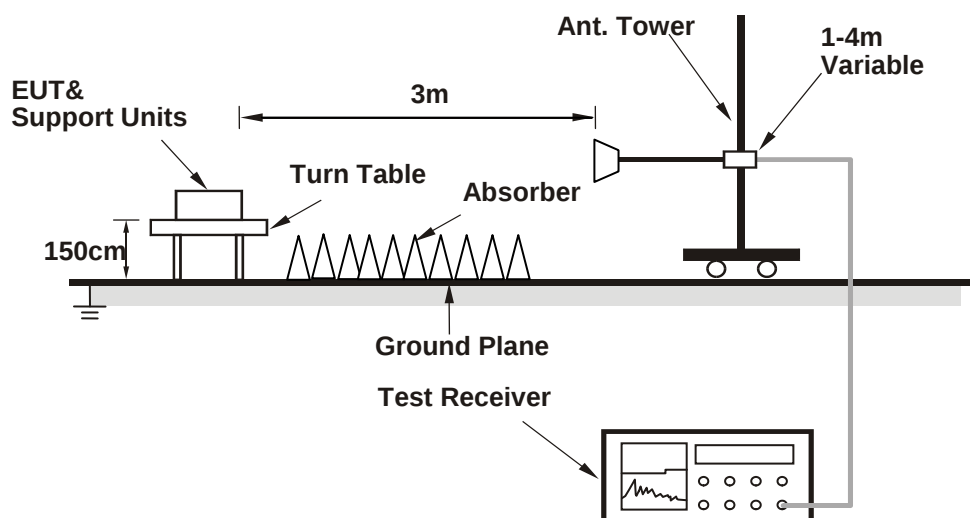
Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. 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.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

6.1.4 Deviation from Test Standard

No deviation.

6.1.5 Test Setup



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

6.1.6 EUT Operating Condition

Same as 4.1.6.

6.1.1 Test Results

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

802.11a

CHANNEL	TX Channel 64	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	5368.02	48.6 PK	74.0	-25.4	1.47 H	234	45.9	2.7
2	5368.02	36.9 AV	54.0	-17.1	1.47 H	234	34.2	2.7
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	5368.02	68.1 PK	74.0	-5.9	1.78 V	100	65.4	2.7
2	5368.02	53.8 AV	54.0	-0.2	1.78 V	100	51.1	2.7

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 64	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	5368.00	49.0 PK	74.0	-25.0	1.54 H	240	46.3	2.7
2	5368.00	37.2 AV	54.0	-16.8	1.54 H	240	34.5	2.7
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	5368.00	67.5 PK	74.0	-6.5	1.78 V	94	64.8	2.7
2	5368.00	53.6 AV	54.0	-0.4	1.78 V	94	50.9	2.7

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 38	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	5149.72	48.6 PK	74.0	-25.4	1.46 H	243	45.6	3.0
2	5149.72	36.6 AV	54.0	-17.4	1.46 H	243	33.6	3.0
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	5149.72	68.3 PK	74.0	-5.7	1.77 V	92	65.3	3.0
2	5149.72	53.9 AV	54.0	-0.1	1.77 V	92	50.9	3.0

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

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	5358.07	48.4 PK	74.0	-25.6	1.48 H	220	45.8	2.6
2	5358.07	36.7 AV	54.0	-17.3	1.48 H	220	34.1	2.6
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	5358.07	67.9 PK	74.0	-6.1	1.76 V	80	65.3	2.6
2	5358.07	53.7 AV	54.0	-0.3	1.76 V	80	51.1	2.6

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

CHANNEL	TX Channel 110	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	5454.00	48.4 PK	74.0	-25.6	1.47 H	231	45.5	2.9
2	5454.00	36.5 AV	54.0	-17.5	1.47 H	231	33.6	2.9
3	#5466.43	49.0 PK	68.2	-19.2	1.47 H	231	46.1	2.9
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	5454.00	67.1 PK	74.0	-6.9	1.78 V	86	64.2	2.9
2	5454.00	53.6 AV	54.0	-0.4	1.78 V	86	50.7	2.9
3	#5466.43	67.6 PK	68.2	-0.6	1.78 V	86	64.7	2.9

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.

802.11ac (VHT80)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5147.40	48.4 PK	74.0	-25.6	1.42 H	240	45.4	3.0
2	5147.40	36.6 AV	54.0	-17.4	1.42 H	240	33.6	3.0
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	5147.40	66.8 PK	74.0	-7.2	1.90 V	95	63.8	3.0
2	5147.40	53.6 AV	54.0	-0.4	1.90 V	95	50.6	3.0

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

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	5459.53	48.8 PK	74.0	-25.2	1.44 H	243	45.9	2.9
2	5459.53	36.9 AV	54.0	-17.1	1.44 H	243	34.0	2.9
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	5459.53	66.6 PK	74.0	-7.4	1.92 V	83	63.7	2.9
2	5459.53	53.9 AV	54.0	-0.1	1.92 V	83	51.0	2.9

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

Appendix B – Information on the Testing Laboratories

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

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

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Web Site: www.bureauveritas-adt.com

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

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