

### 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)
					Chain 0	Chain 1		
1	3873.43 PK	58.17	74	-15.83	-47.05	-46.75	6.8	-37.09
2	3882.81 AV	37.43	54	-16.57	-67.77	-67.51	6.8	-57.83
3	7762.5 PK	58.3	74	-15.7	-48.5	-45.53	6.8	-36.96
4	7760.93 AV	36.84	54	-17.16	-68.07	-68.4	6.8	-58.42
5	11650 PK	59.74	74	-14.26	-46.83	-44.22	6.8	-35.52
6	11650 AV	46.02	54	-7.98	-61.44	-57.52	6.8	-49.24
7	17474.68 PK	74.26	68.2	* 6.06	-36.93	-28.37	6.8	-21

Note :

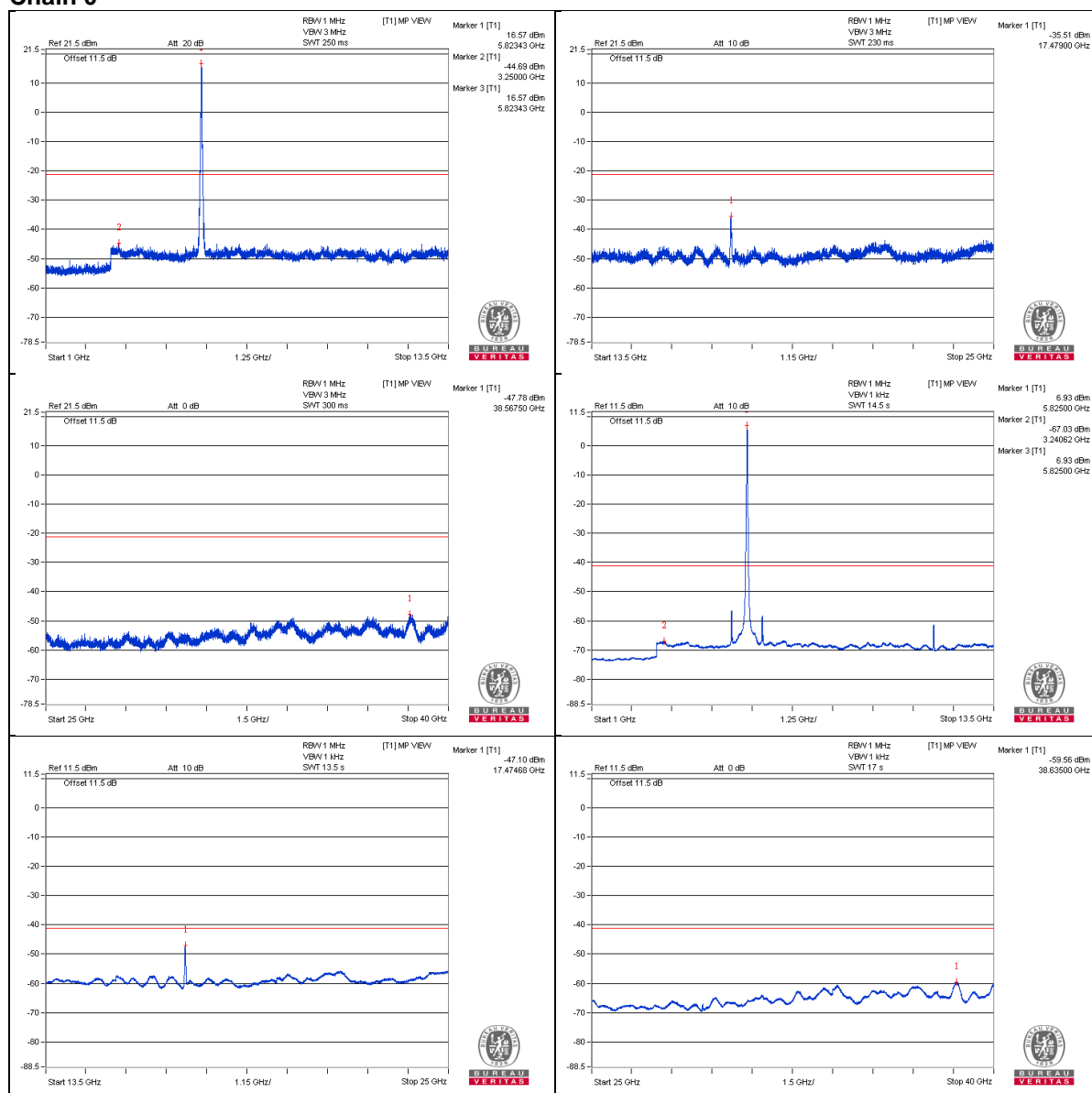
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

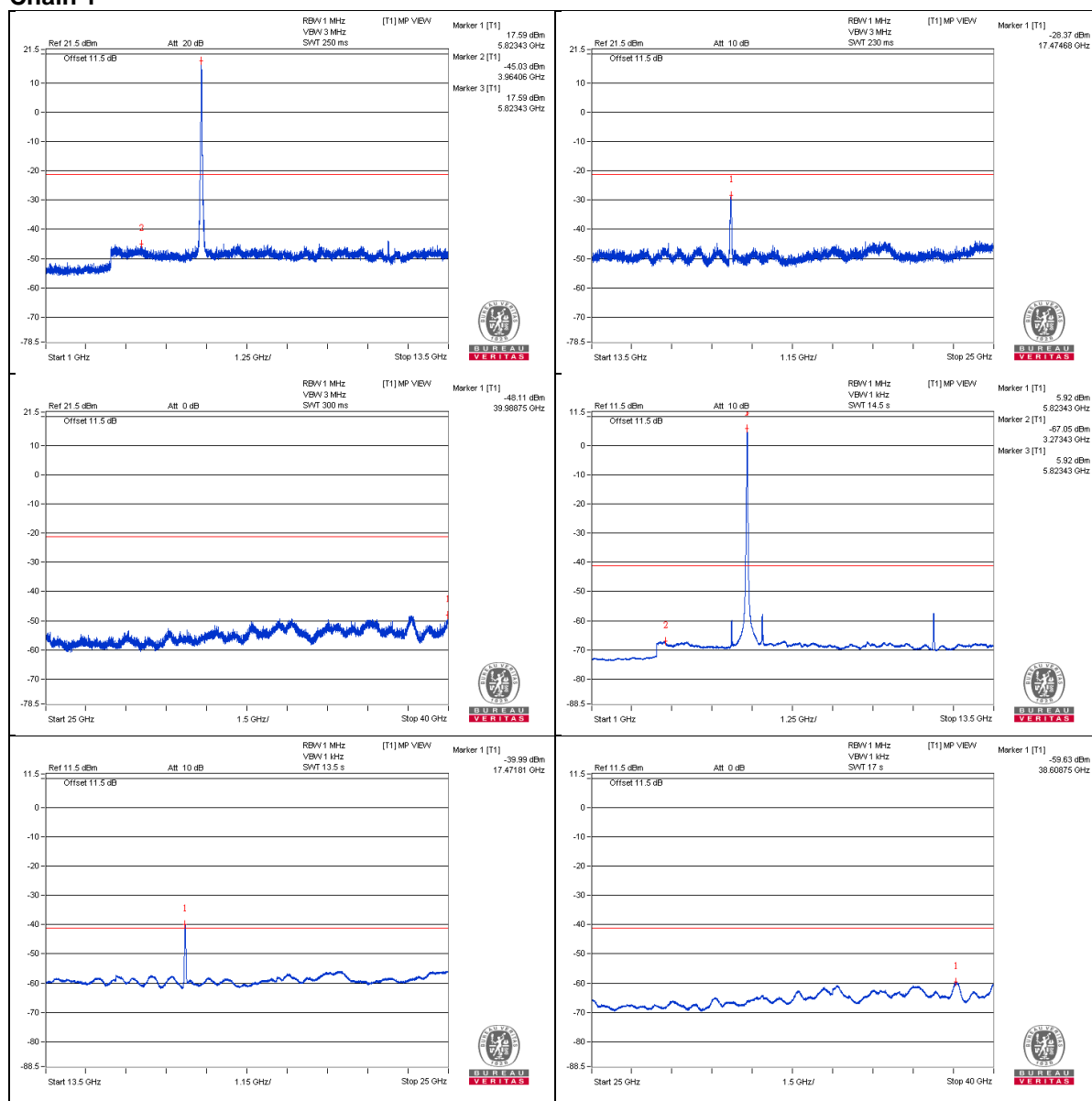
\* The unwanted emission was verified and the test result was passed by radiated measurement.

(Please refer Appendix A)

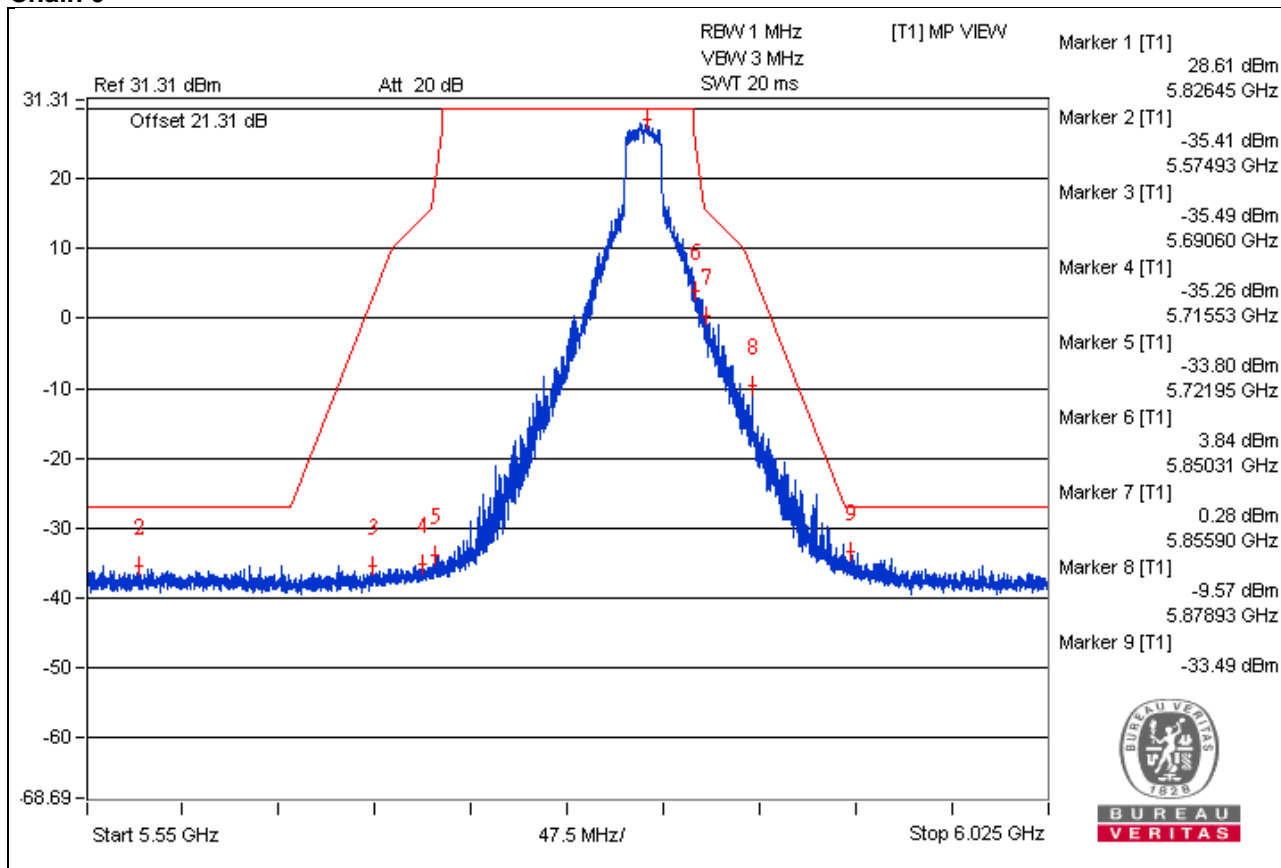
## Chain 0



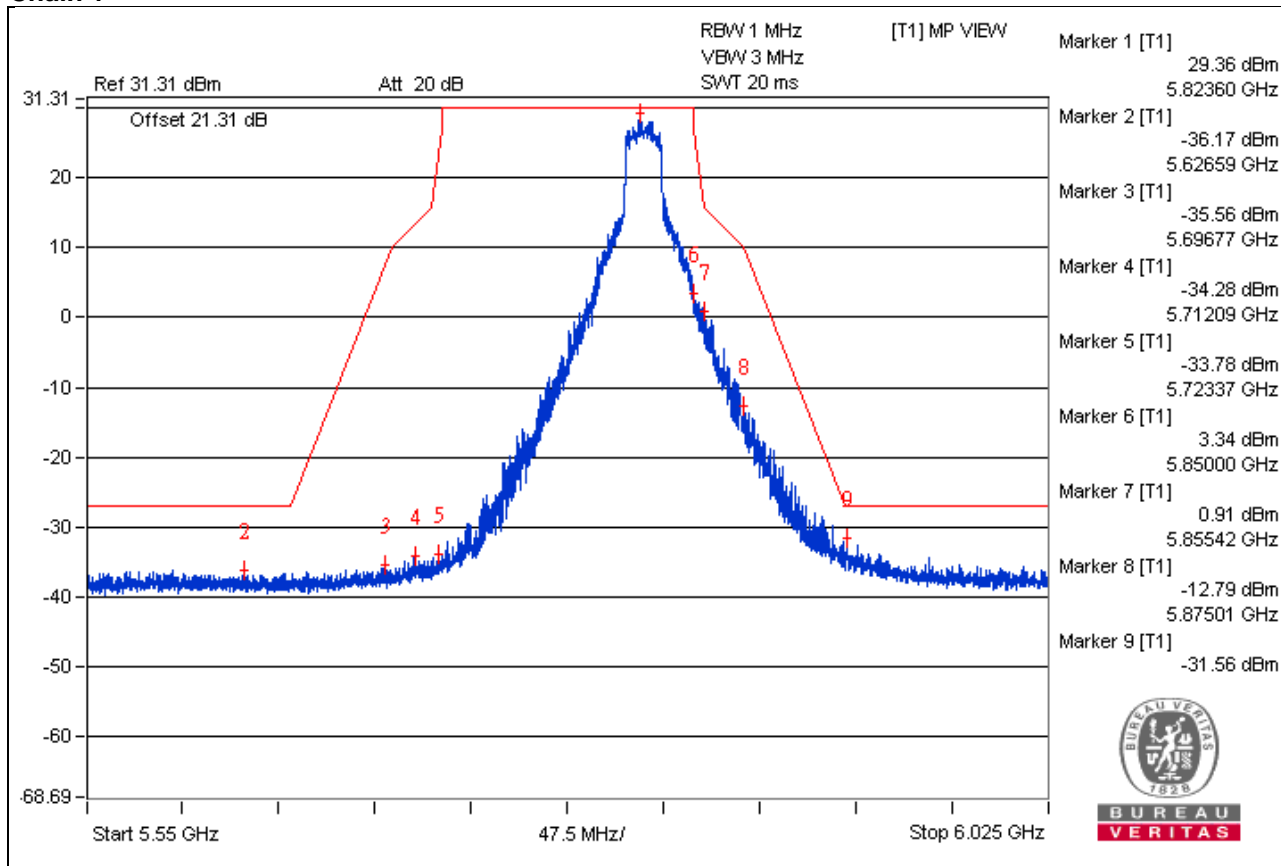
## Chain 1



## Bandedge table Chain 0



## Chain 1



### 802.11ac (VHT40) - Channel 38

#### Conducted spurious emission table

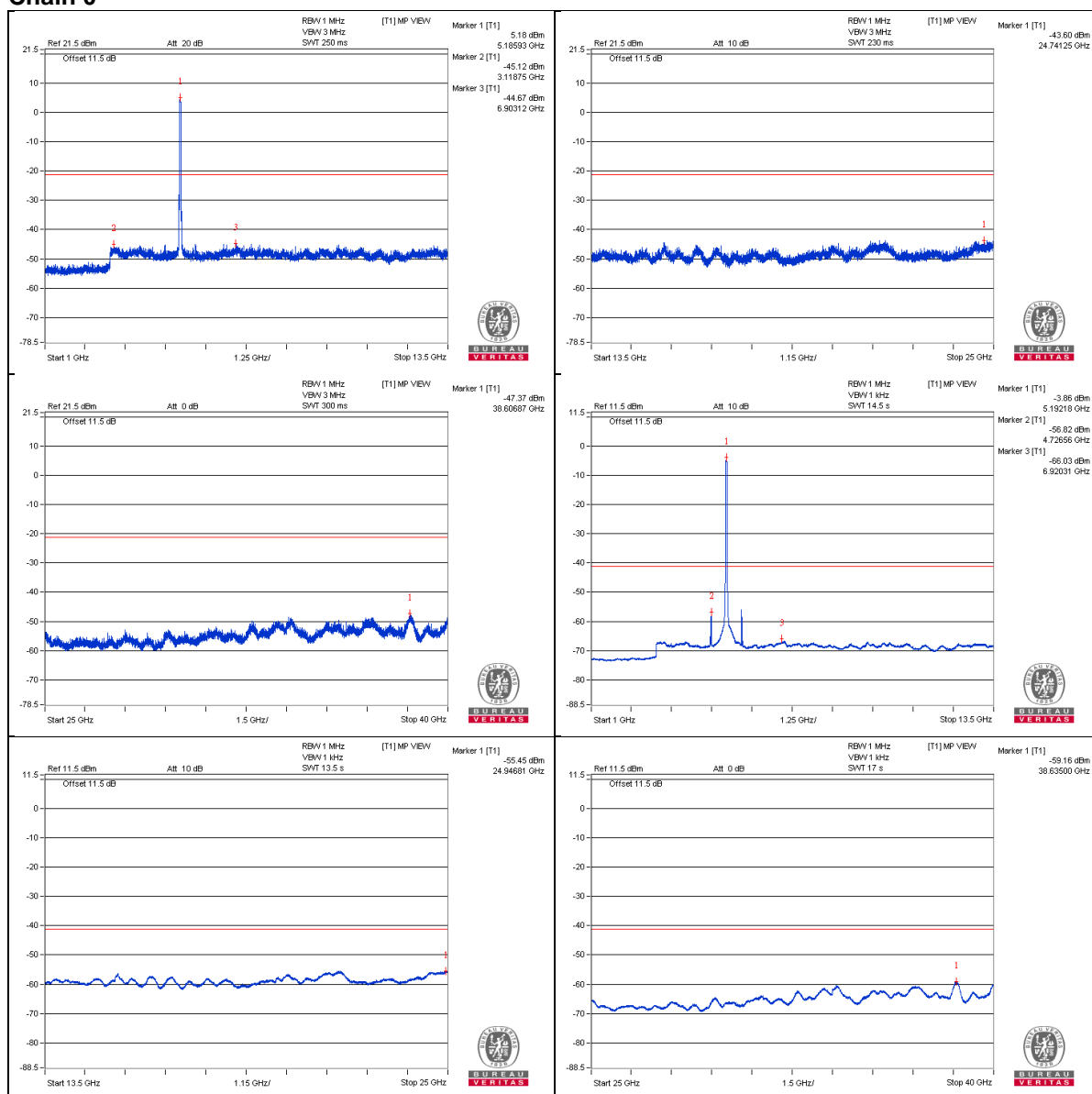
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	3459.37 PK	57.64	74	-16.36	-48.11	-46.84	6.8	-37.62
2	3459.37 AV	37.74	54	-16.26	-67.53	-67.14	6.8	-57.52
3	6928.12 PK	58.77	74	-15.23	-47.17	-45.57	6.8	-36.49
4	6920.31 AV	38.4	54	-15.6	-66.03	-67.42	6.8	-56.86
5	10385.93 PK	57.8	74	-16.2	-47.3	-47.24	6.8	-37.46
6	10379.68 AV	37.35	54	-16.65	-68.18	-67.3	6.8	-57.91
7	15577.18 PK	59.47	74	-14.53	-44.37	-47.32	6.8	-35.79
8	15565.68 AV	48.34	54	-5.66	-56.45	-57.03	6.8	-46.92

Note :

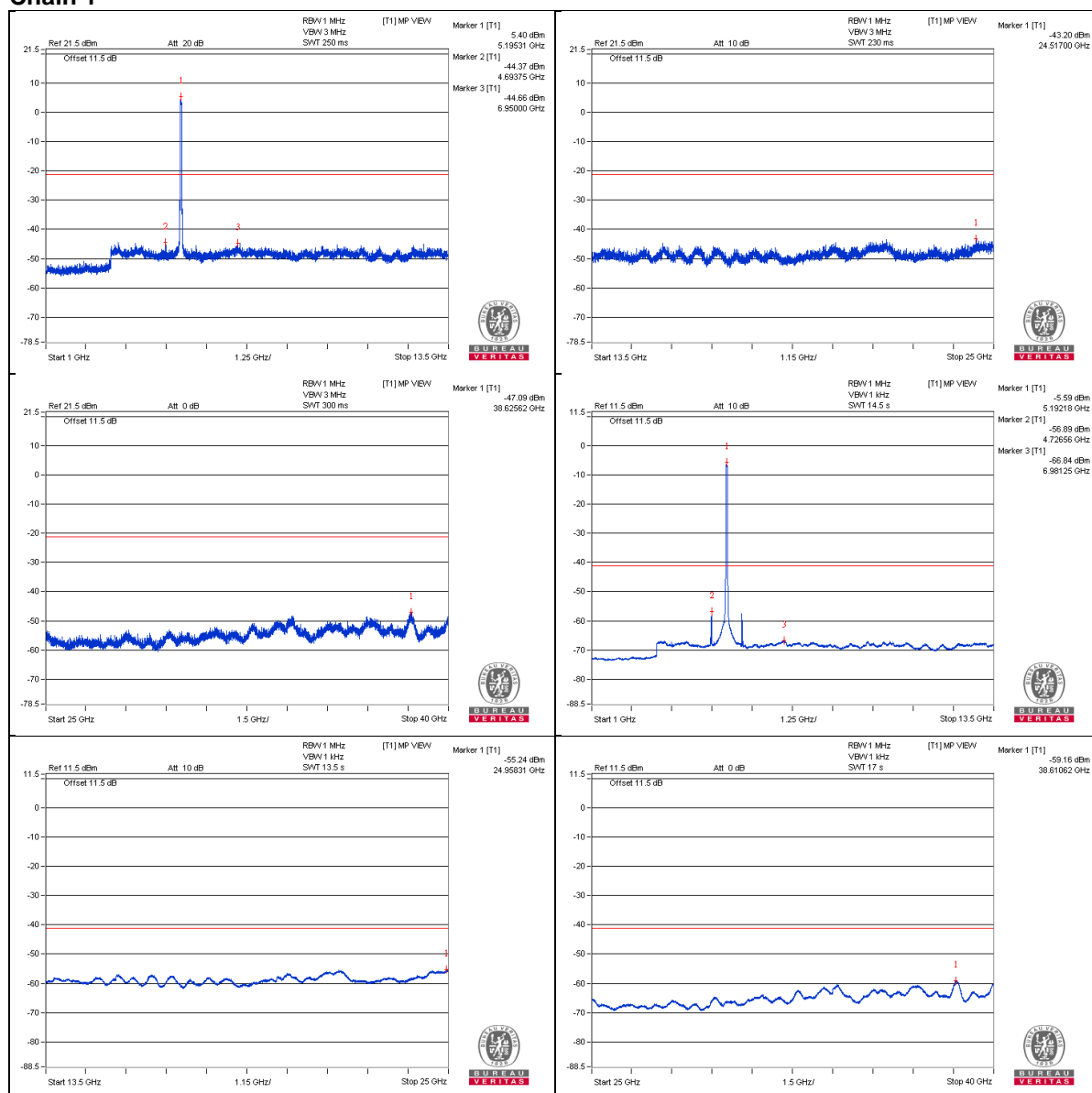
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

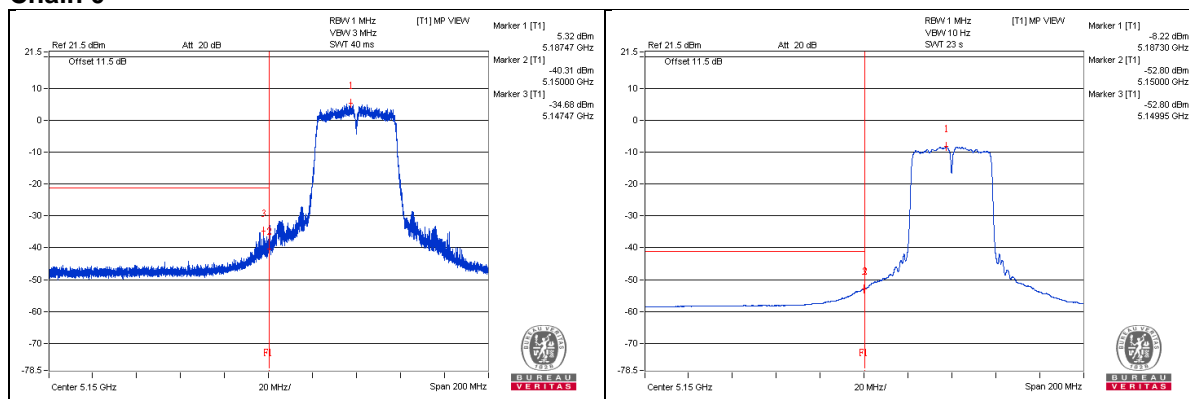
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	5146.97 PK	68.14	74	-5.86	-37.26	-36.62	6.8	-27.12
2	5150 AV	52.87	54	-1.13	-52.8	-51.68	6.8	-42.39

Note :

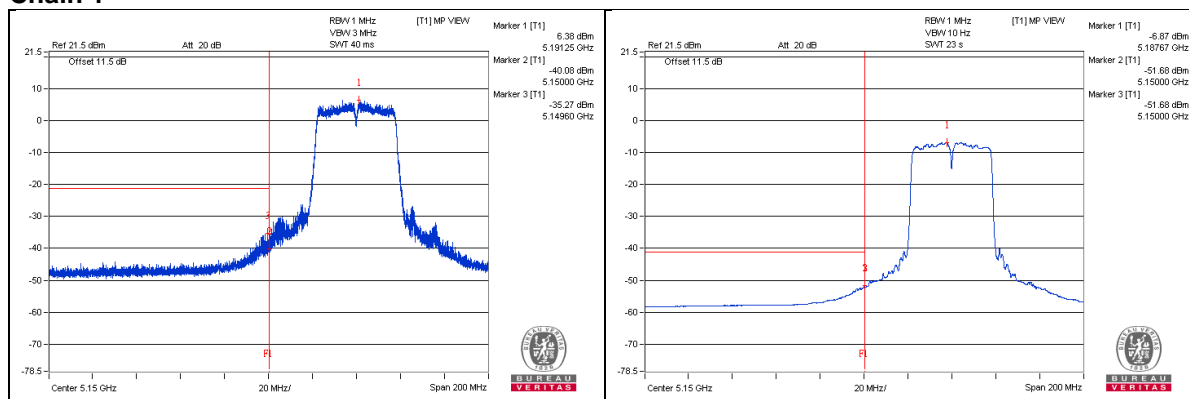
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1





# 802.11ac (VHT40) - Channel 46

## Conducted spurious emission table

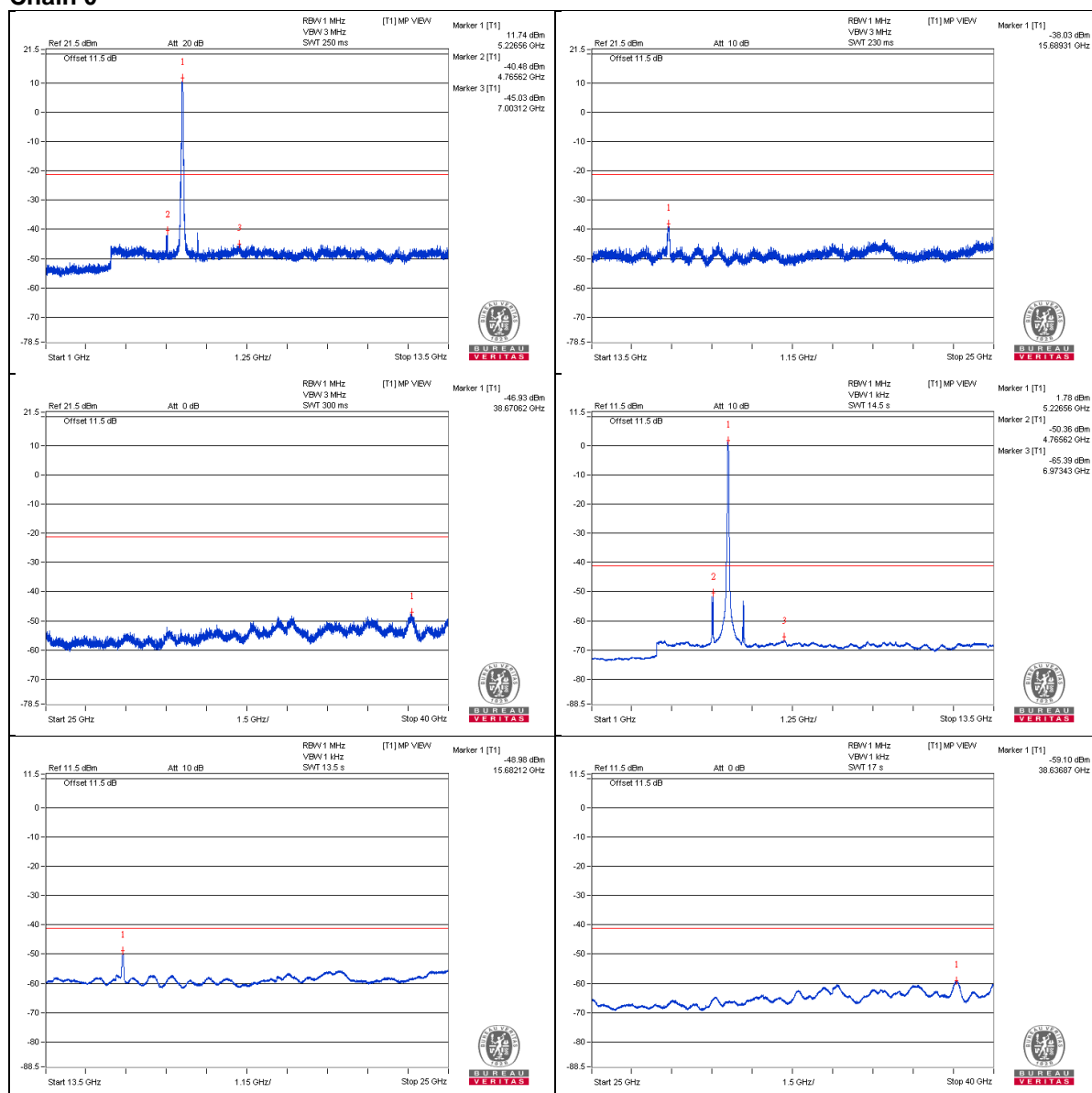
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	3487.5 PK	57.91	74	-16.09	-46.77	-47.6	6.8	-37.35
2	3485.93 AV	37.13	54	-16.87	-68.32	-67.59	6.8	-58.13
3	6967.18 PK	58.81	74	-15.19	-46.43	-46.1	6.8	-36.45
4	6973.43 AV	38.94	54	-15.06	-65.39	-67.02	6.8	-56.32
5	10459.37 PK	58.01	74	-15.99	-47.45	-46.71	6.8	-37.25
6	10464.06 AV	39.83	54	-14.17	-67.36	-63.82	6.8	-55.43
7	15683.56 PK	65.79	74	-8.21	-38.17	-40.78	6.8	-29.47
8	15682.12 AV	55.01	54	* 1.01	-48.98	-51.5	6.8	-40.25

Note :

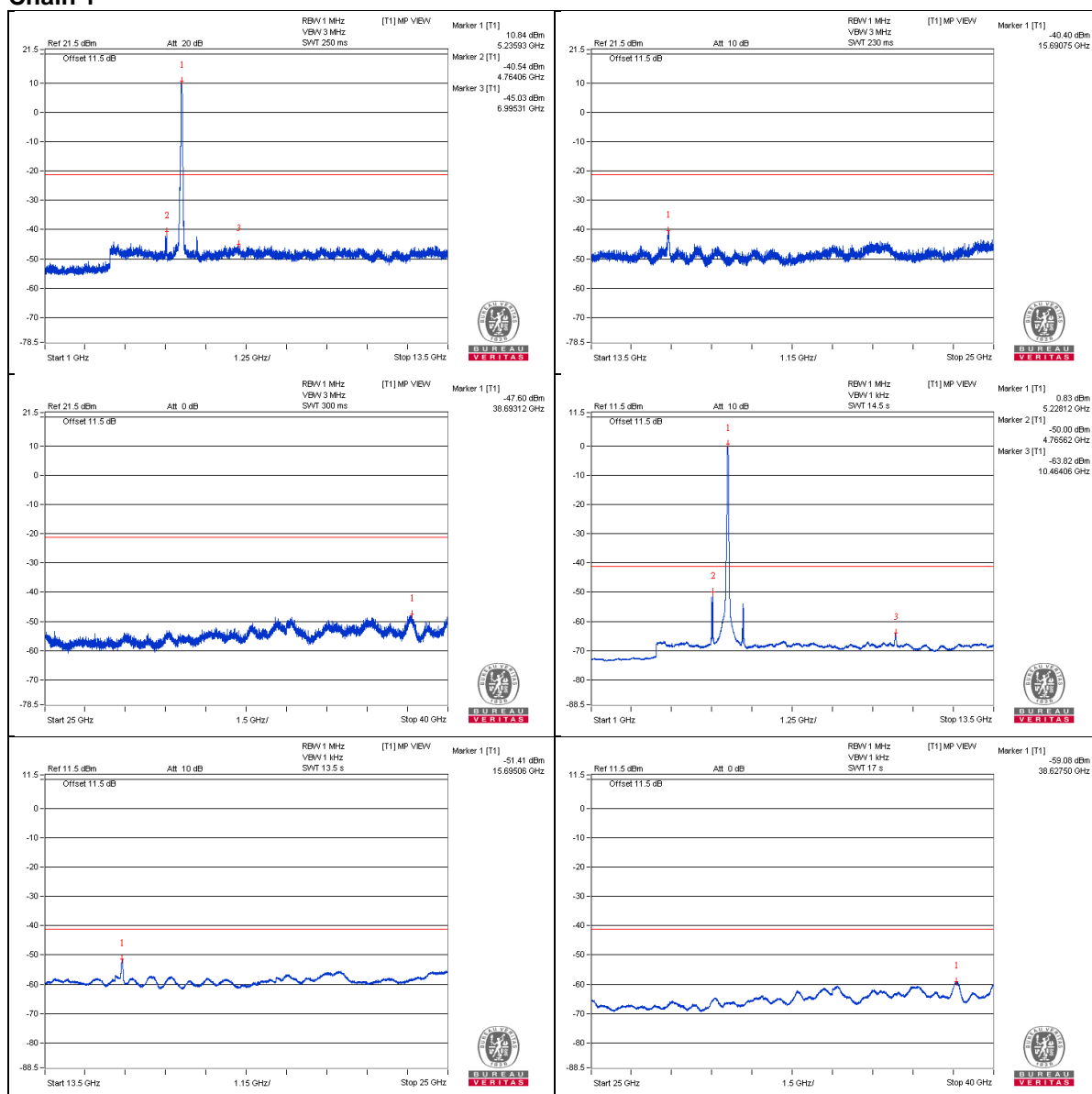
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

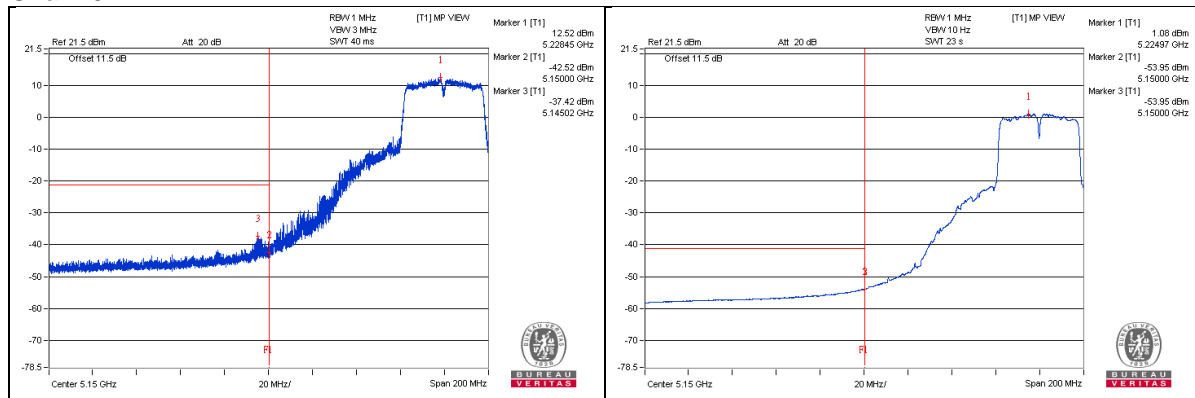
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	5146.4 PK	67.45	74	-6.55	-38.55	-36.86	6.8	-27.81
2	5150 AV	51.09	54	-2.91	-53.95	-54.01	6.8	-44.17

Note :

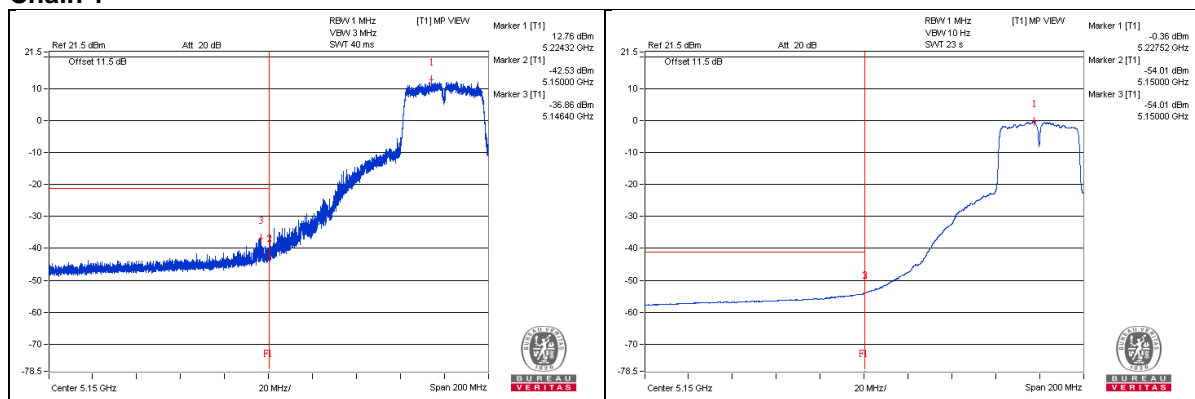
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



# 802.11ac (VHT40) - Channel 54

## Conducted spurious emission table

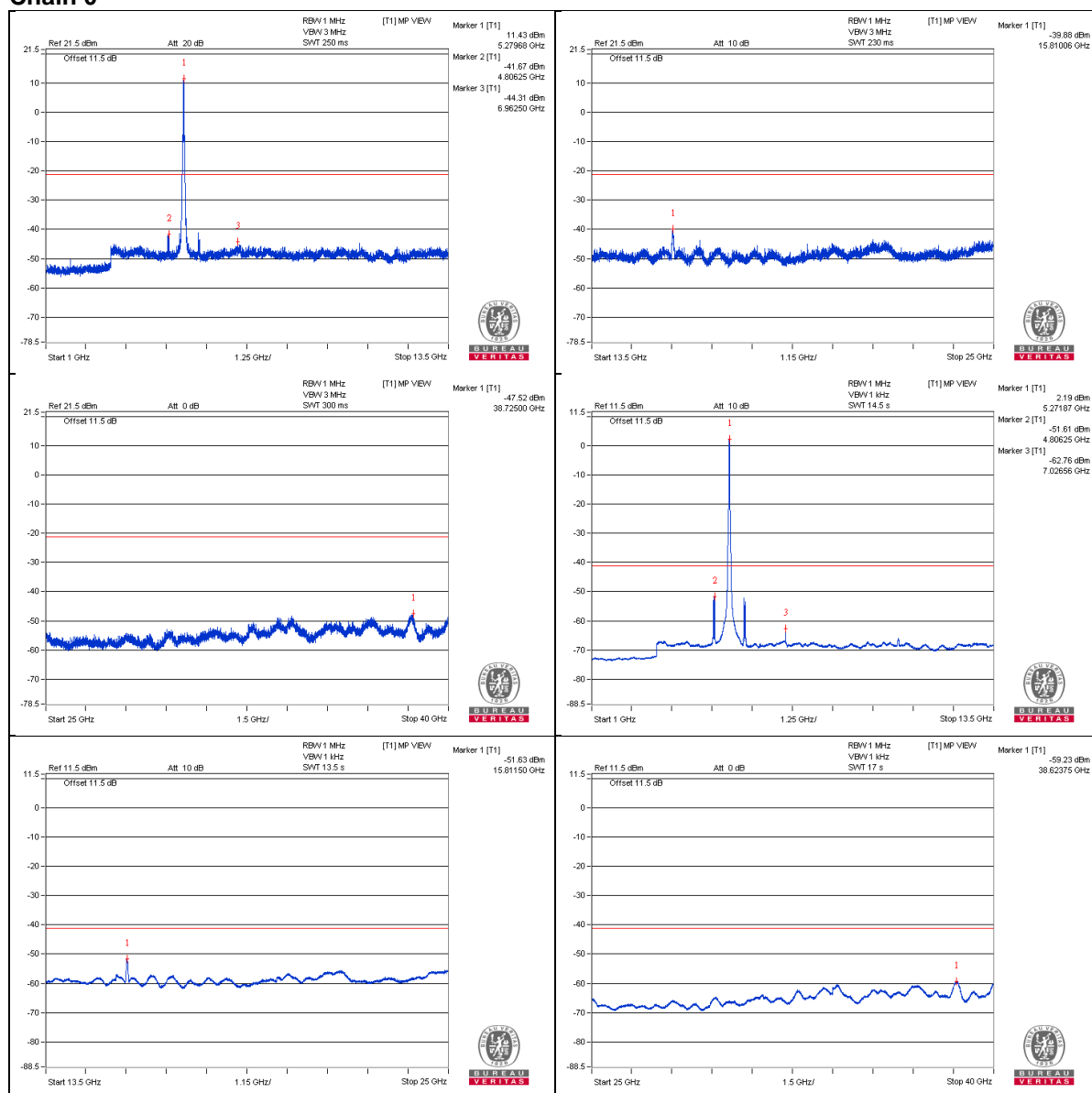
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	3504.68 PK	57.51	74	-16.49	-47.93	-47.22	6.8	-37.75
2	3512.5 AV	37.58	54	-16.42	-68.27	-66.83	6.8	-57.68
3	7029.68 PK	58.59	74	-15.41	-45.46	-47.82	6.8	-36.67
4	7026.56 AV	40.62	54	-13.38	-62.76	-67.24	6.8	-54.64
5	10539.06 PK	57.75	74	-16.25	-47.81	-46.88	6.8	-37.51
6	10542.18 AV	40.88	54	-13.12	-66.04	-62.89	6.8	-54.38
7	15804.31 PK	64.65	74	-9.35	-43	-38.81	6.8	-30.61
8	15805.75 AV	53.78	54	-0.22	-51.74	-50.88	6.8	-41.48

Note :

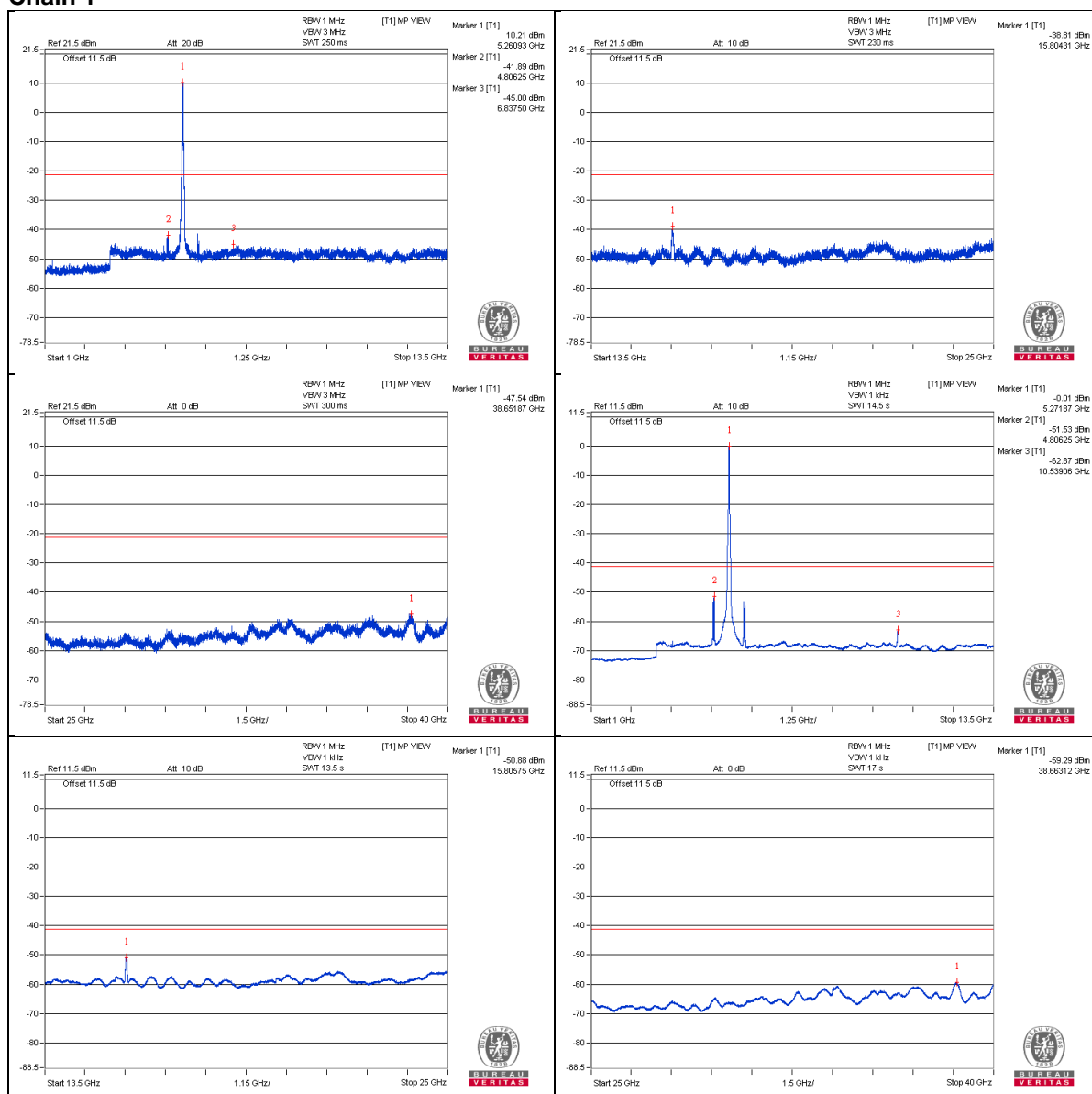
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

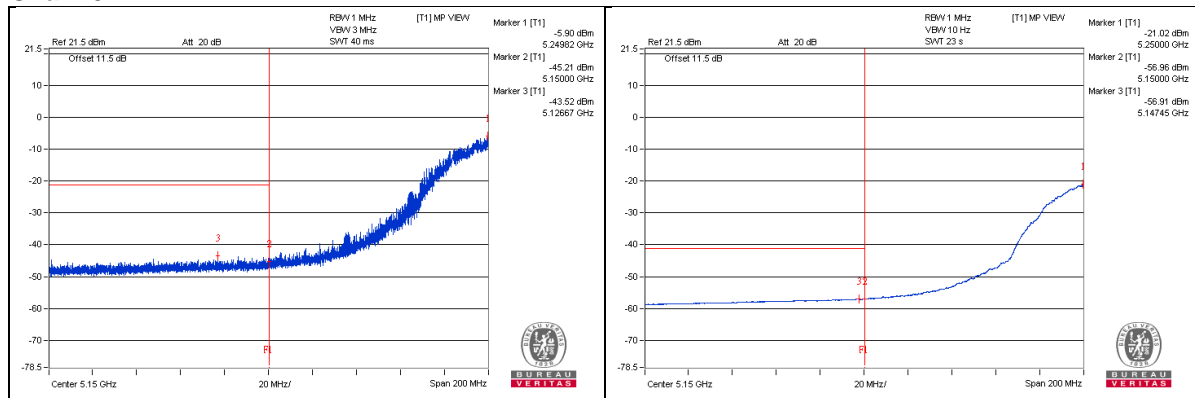
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	5357.8 PK	66.01	74	-7.99	-36.48	-46.32	6.8	-29.25
2	5350 AV	51.74	54	-2.26	-51.85	-55.6	6.8	-43.52

Note :

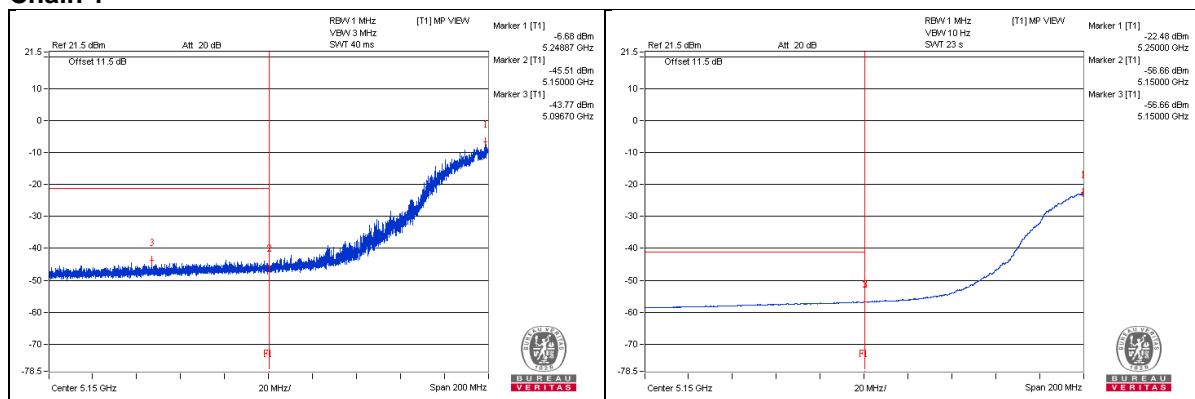
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1





# 802.11ac (VHT40) - Channel 62

## Conducted spurious emission table

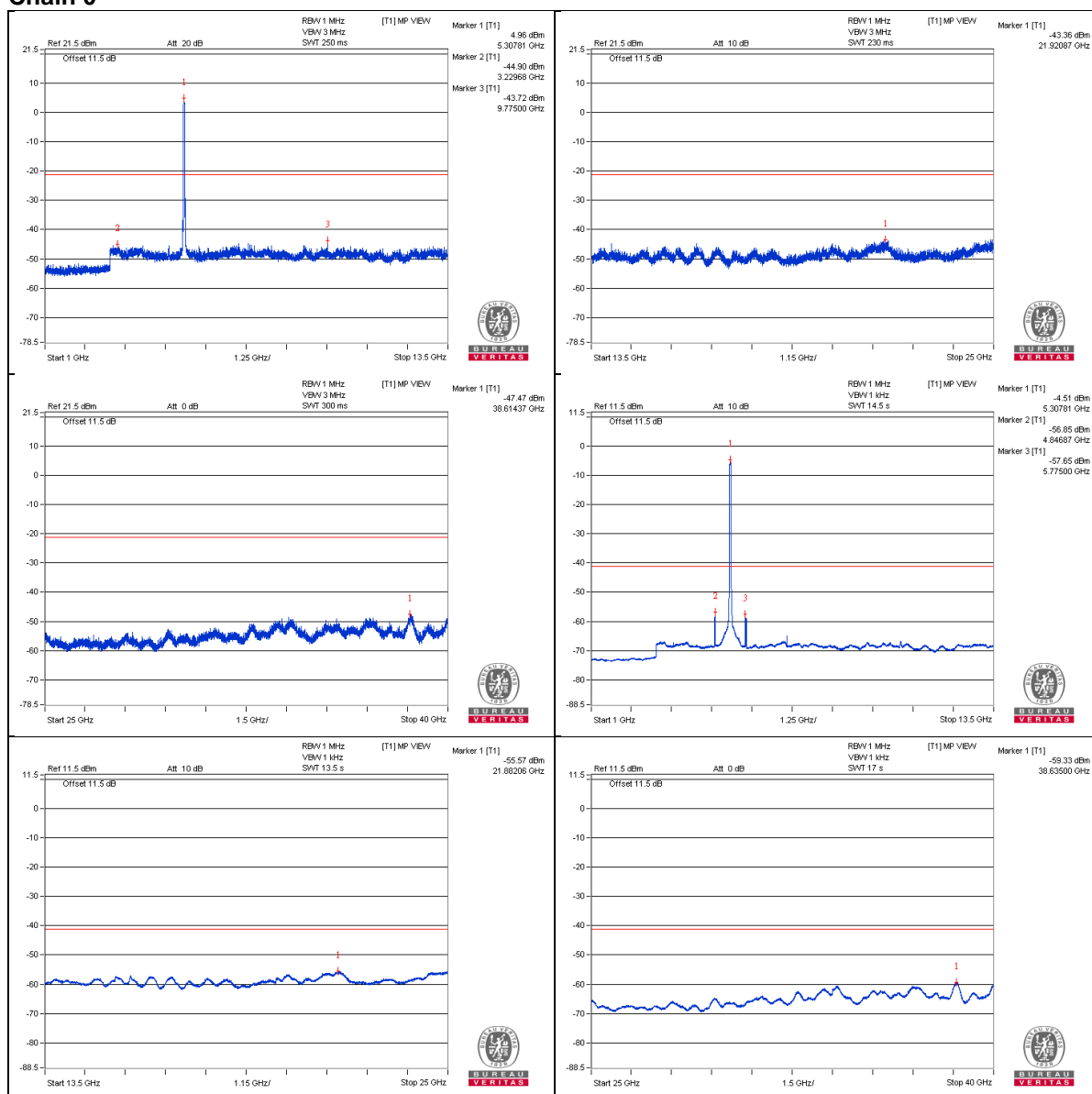
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	3540.62 PK	56.78	74	-17.22	-48.69	-47.92	6.8	-38.48
2	3539.06 AV	38.36	54	-15.64	-67.33	-66.17	6.8	-56.9
3	7085.93 PK	56.94	74	-17.06	-47.63	-48.7	6.8	-38.32
4	7079.68 AV	38.52	54	-15.48	-65.05	-68.86	6.8	-56.74
5	10620.31 PK	58.16	74	-15.84	-46.62	-47.23	6.8	-37.1
6	10620.31 AV	38.87	54	-15.13	-66.89	-65.61	6.8	-56.39
7	15933.68 PK	58.51	74	-15.49	-47.21	-46	6.8	-36.75
8	15926.5 AV	47.8	54	-6.2	-57.21	-57.34	6.8	-47.46

Note :

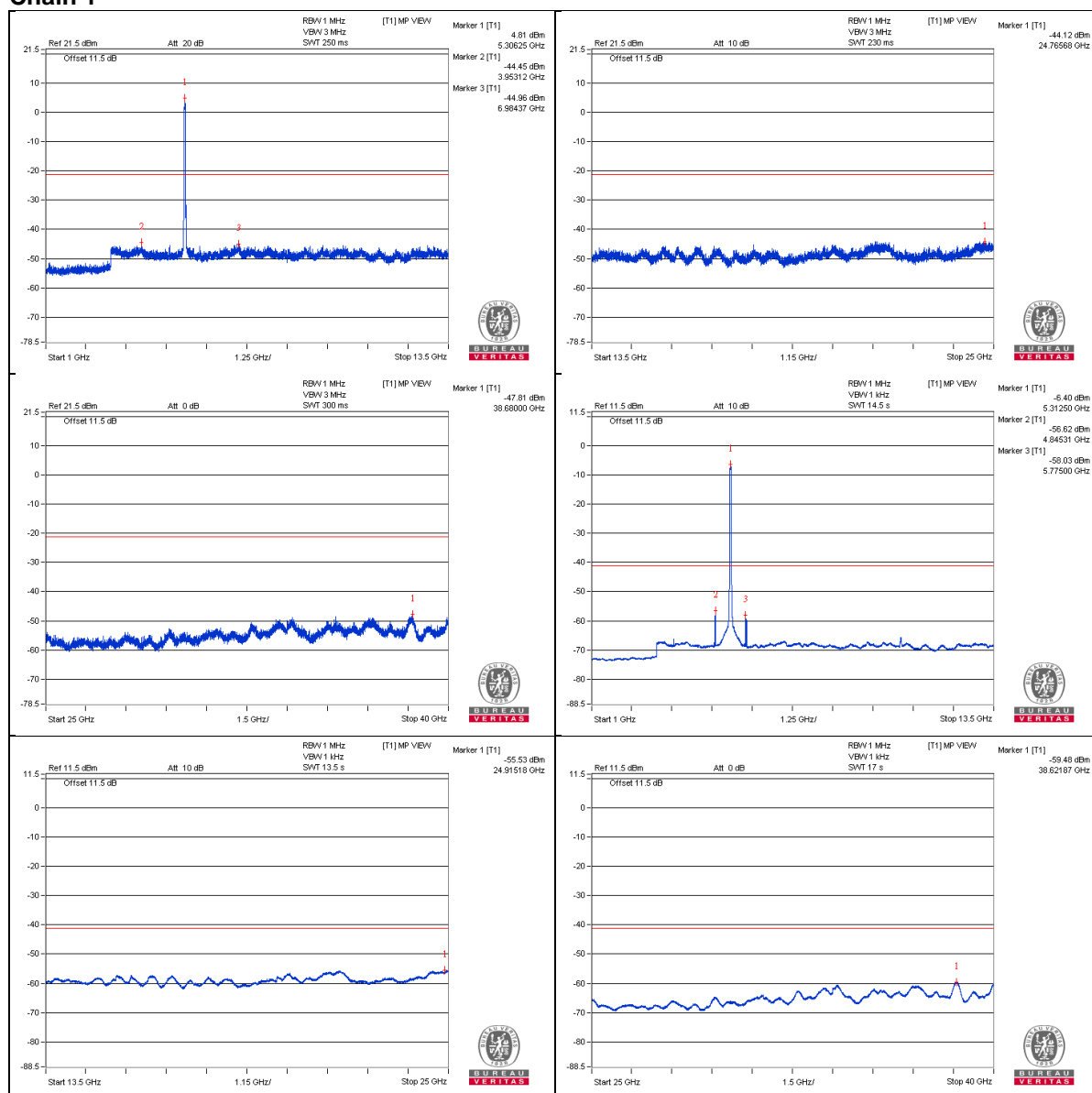
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

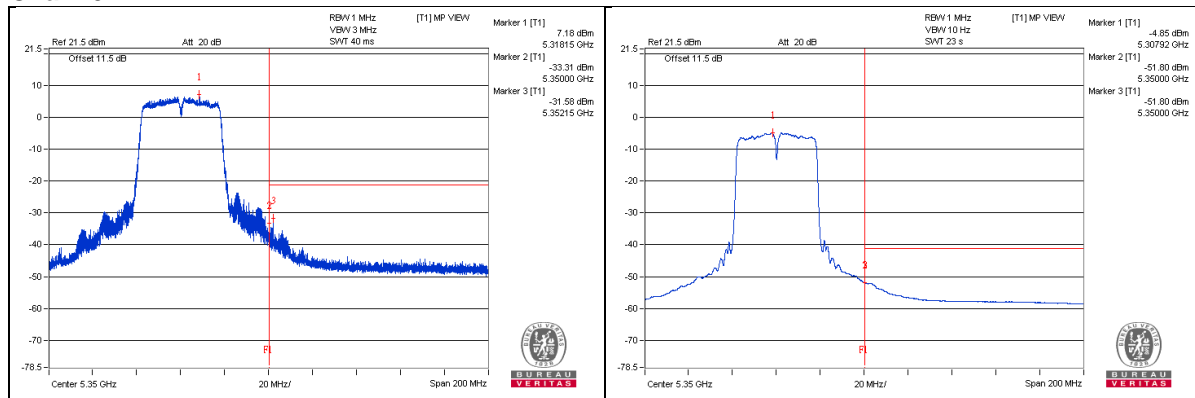
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	5352.15 PK	71.28	74	-2.72	-31.58	-38.51	6.8	-23.98
2	5350 AV	53.49	54	-0.51	-51.8	-51.38	6.8	-41.77

Note :

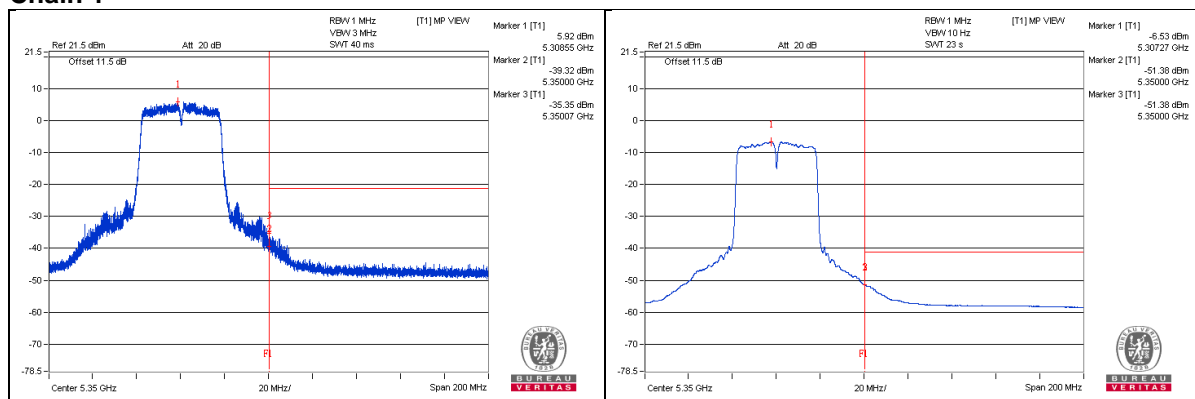
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



### 802.11ac (VHT40) – Channel 102

#### Conducted spurious emission table

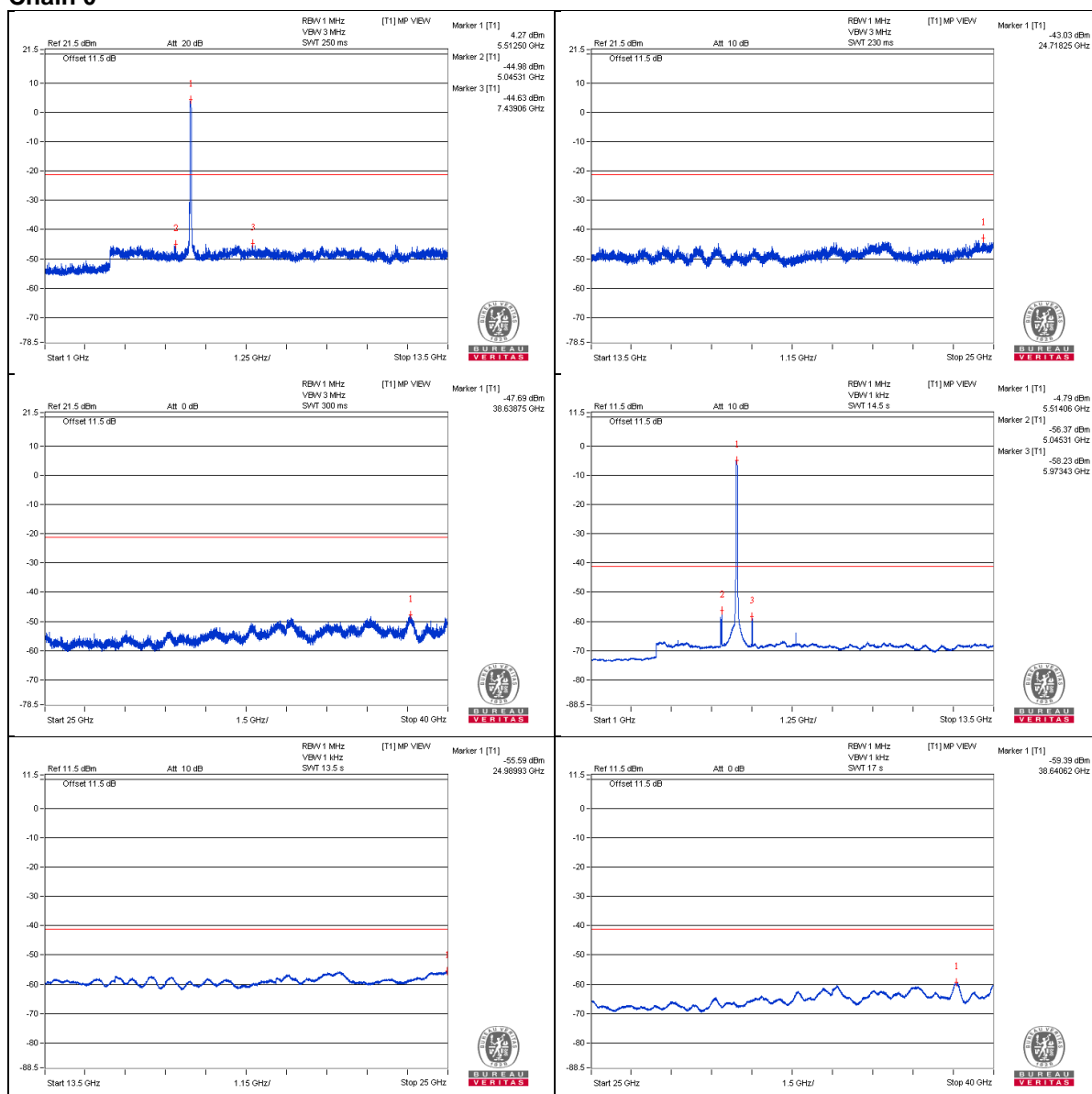
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	3664.06 PK	58.22	74	-15.78	-45.81	-48.21	6.8	-37.04
2	3673.43 AV	38.93	54	-15.07	-66.48	-65.82	6.8	-56.33
3	7353.12 PK	58.39	74	-15.61	-46.99	-46.39	6.8	-36.87
4	7346.87 AV	39.57	54	-14.43	-63.89	-68.08	6.8	-55.69
5	11023.43 PK	56.54	74	-17.46	-48.15	-48.94	6.8	-38.72
6	11021.87 AV	39.1	54	-14.9	-68.67	-64.32	6.8	-56.16
7	16525.93 PK	59.29	74	-14.71	-47.08	-44.78	6.8	-35.97
8	16525.93 AV	48.1	54	-5.9	-57.59	-56.42	6.8	-47.16

Note :

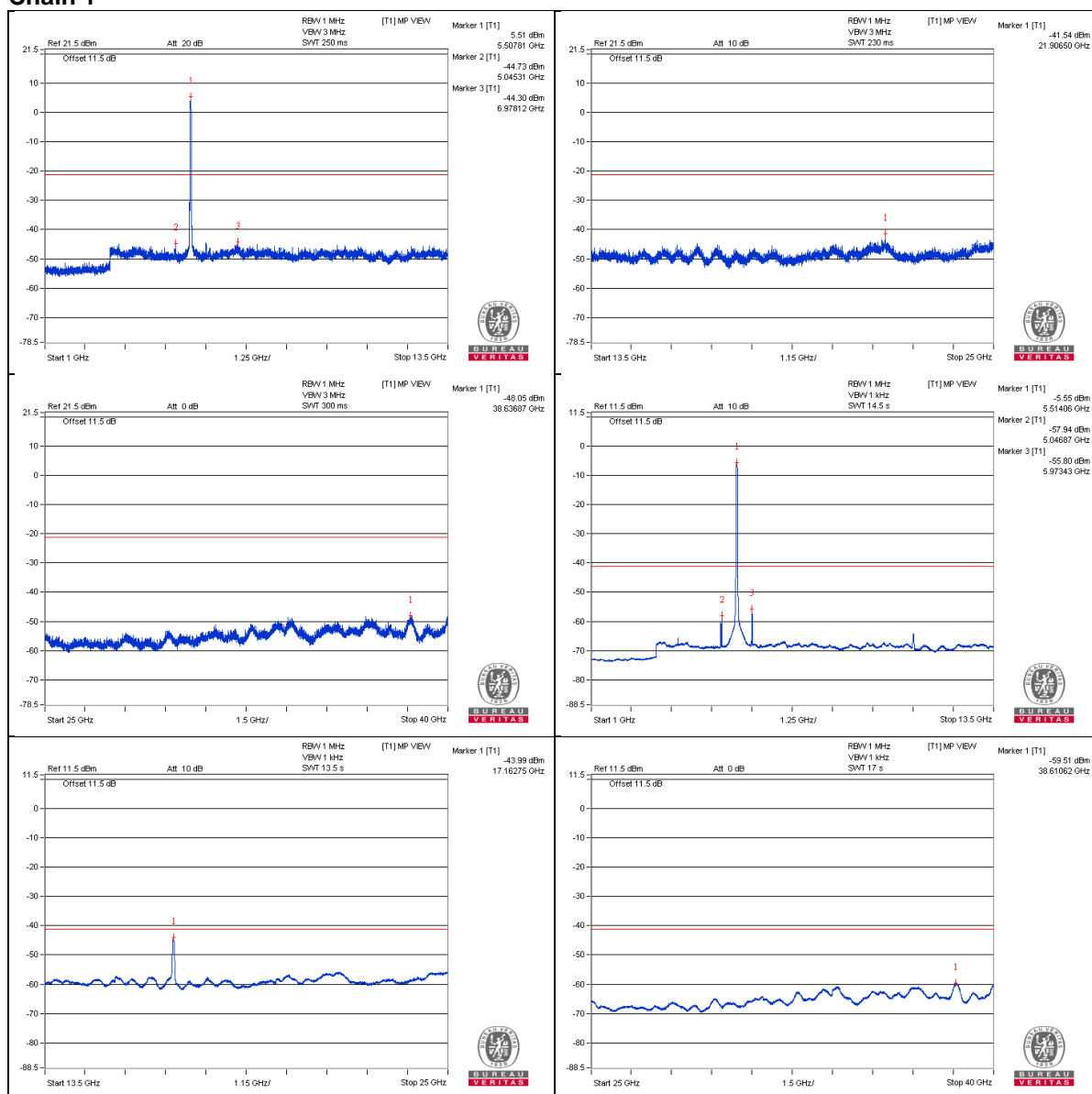
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

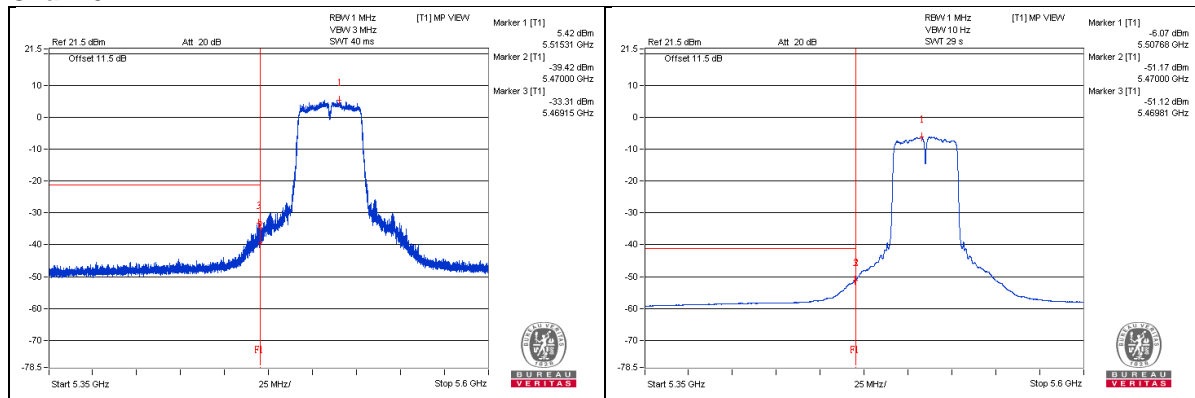
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	5469.15 PK	69.63	74	-4.37	-33.31	-39.8	6.8	-25.63
2	5469.81 AV	53.7	54	-0.3	-51.12	-51.63	6.8	-41.56

Note :

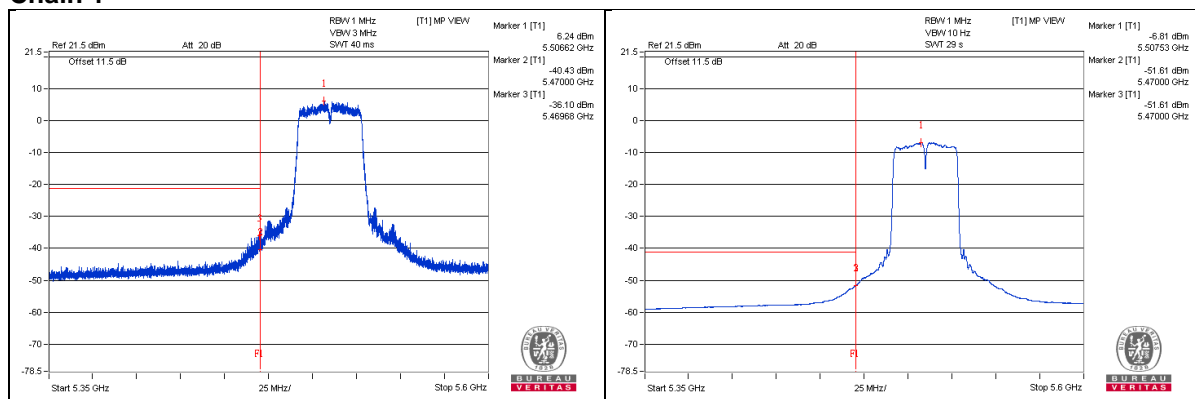
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1





### 802.11ac (VHT40) – Channel 110

#### Conducted spurious emission table

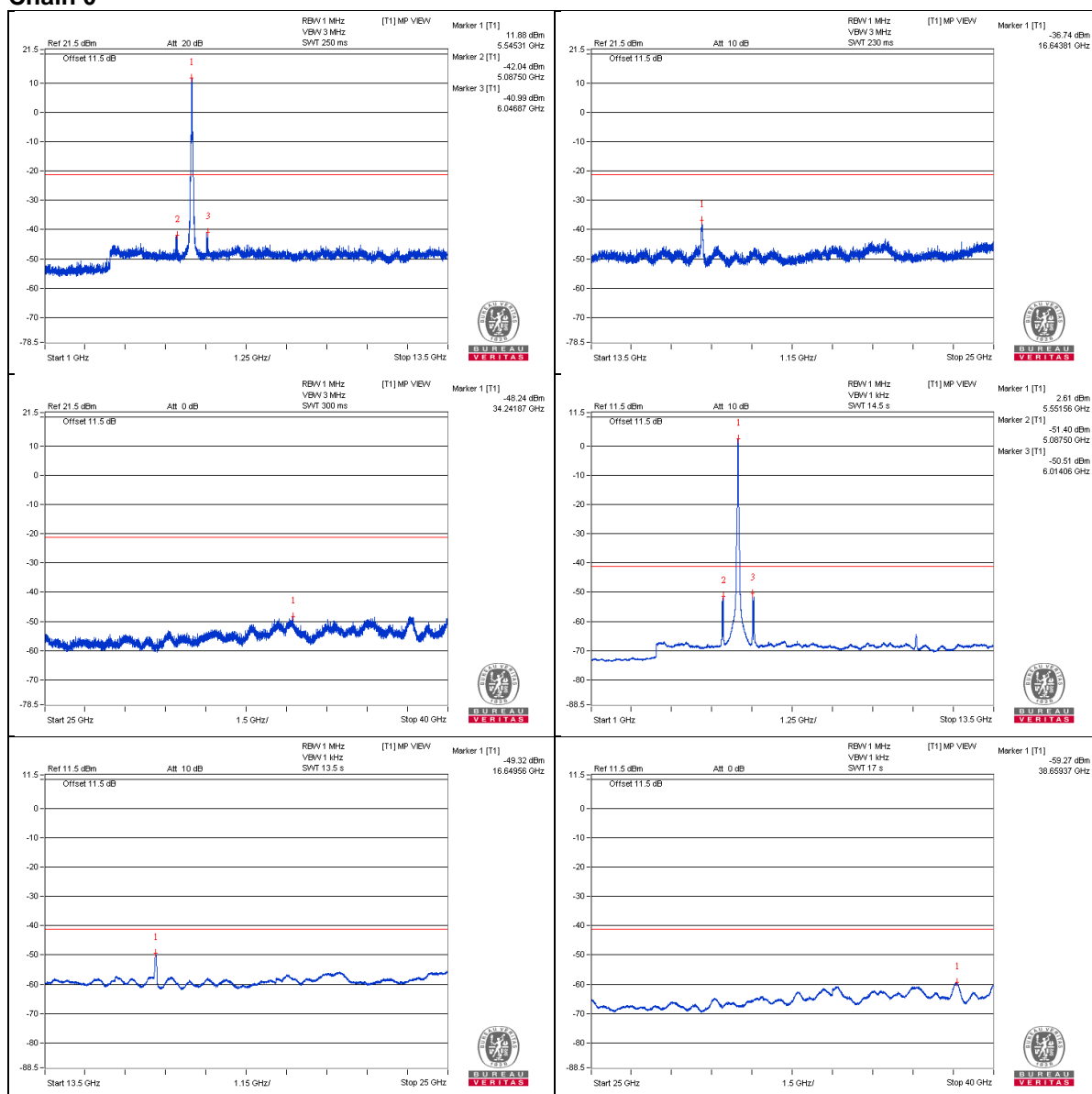
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	3706.25 PK	57.99	74	-16.01	-46.2	-48.19	6.8	-37.27
2	3700 AV	37.9	54	-16.1	-67.25	-67.1	6.8	-57.36
3	7409.37 PK	58.04	74	-15.96	-47.25	-46.82	6.8	-37.22
4	7400 AV	37.78	54	-16.22	-66.72	-67.94	6.8	-57.48
5	11090.62 PK	58.84	74	-15.16	-49.14	-44.51	6.8	-36.42
6	11101.56 AV	45.3	54	-8.7	-64.44	-57.57	6.8	-49.96
7	16643.81 PK	68.16	68.2	-0.04	-36.74	-37.09	6.8	-27.1

Note :

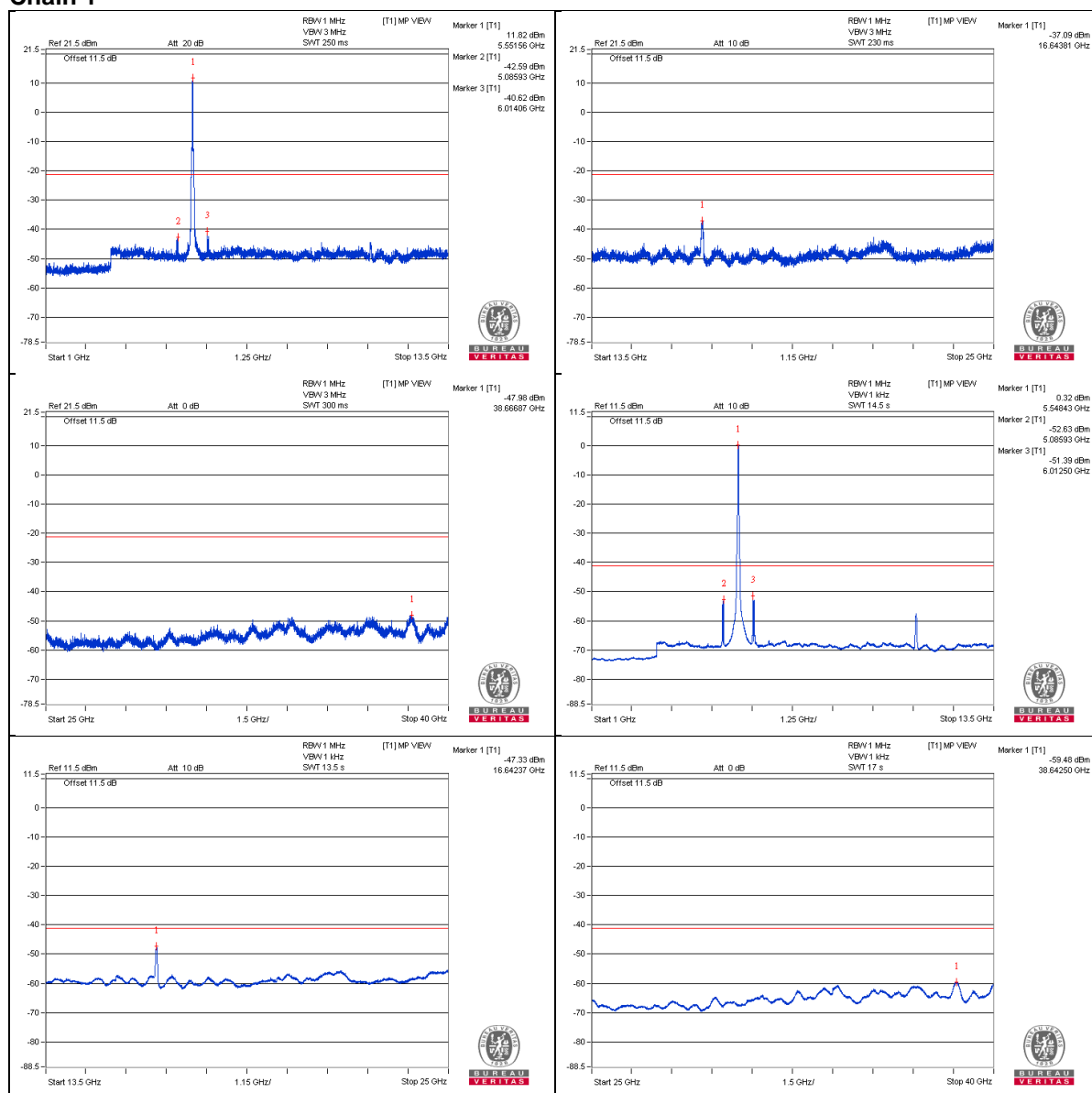
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

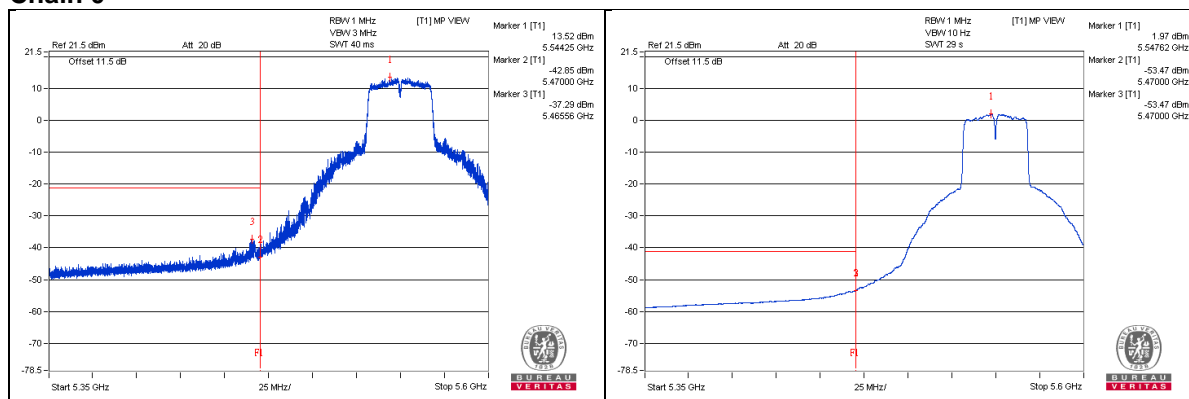
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	5465.56 PK	66.91	74	-7.09	-37.29	-39.26	6.8	-28.35
2	5470 AV	51.21	54	-2.79	-53.47	-54.28	6.8	-44.05

Note :

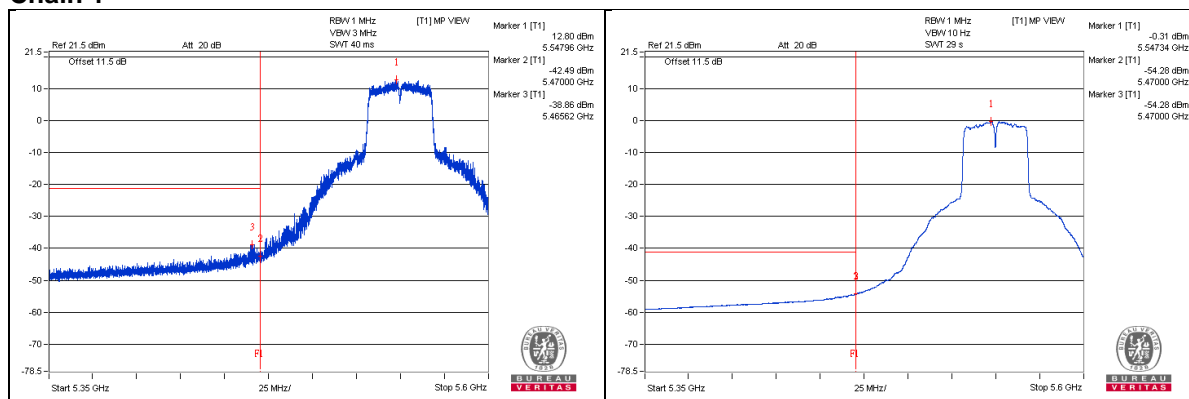
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



# 802.11ac (VHT40) – Channel 134

## Conducted spurious emission table

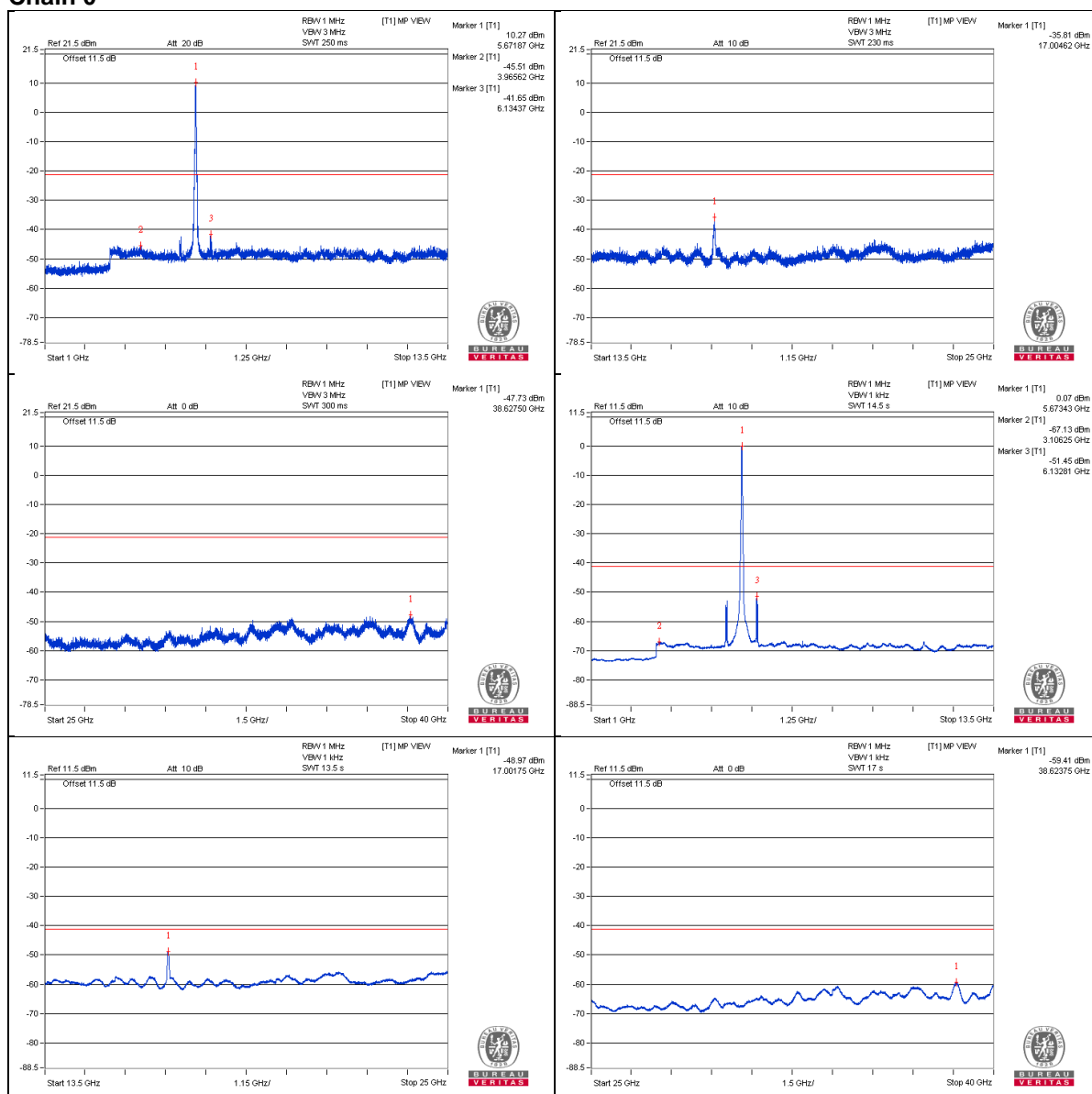
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	3776.56 PK	58.56	74	-15.44	-46.35	-46.67	6.8	-36.7
2	3779.68 AV	38.03	54	-15.97	-67.76	-66.42	6.8	-57.23
3	7560.93 PK	56.94	74	-17.06	-47.85	-48.44	6.8	-38.32
4	7559.37 AV	37.36	54	-16.64	-66.78	-68.89	6.8	-57.9
5	11334.37 PK	58.27	74	-15.73	-47.68	-46.07	6.8	-36.99
6	11348.43 AV	43.56	54	-10.44	-67.13	-59.14	6.8	-51.7
7	17004.62 PK	68.13	68.2	-0.07	-35.81	-38.48	6.8	-27.13

Note :

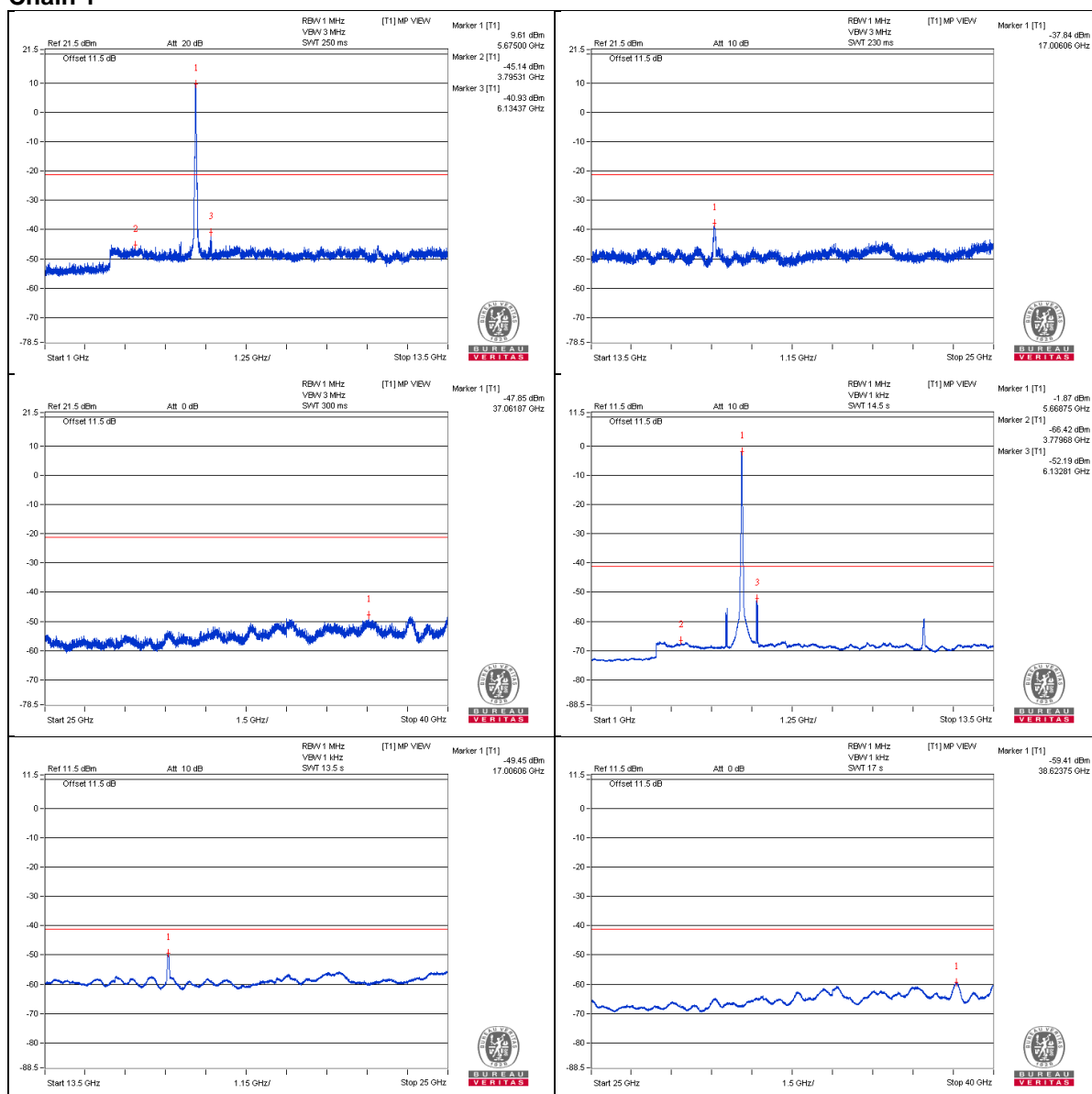
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

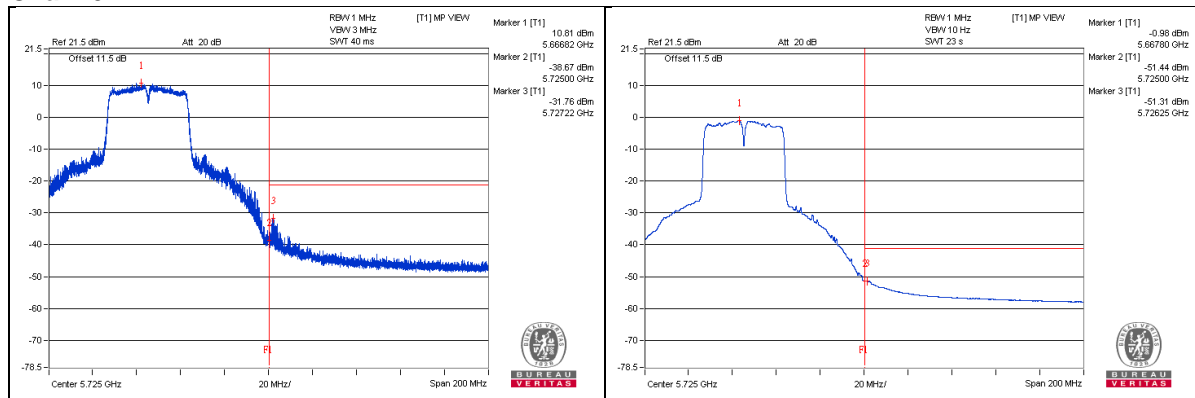
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	5726.9 PK	72.74	74	-1.26	-31.86	-32.85	6.8	-22.52
2	5726.25 AV	53.56	54	-0.44	-51.31	-51.71	6.8	-41.7

Note :

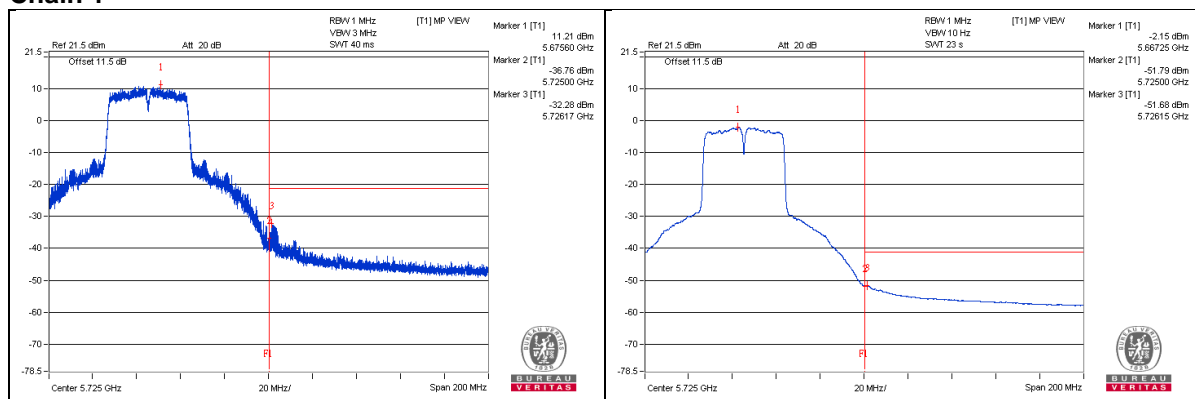
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1





# 802.11ac (VHT40) – Channel 142

## Conducted spurious emission table

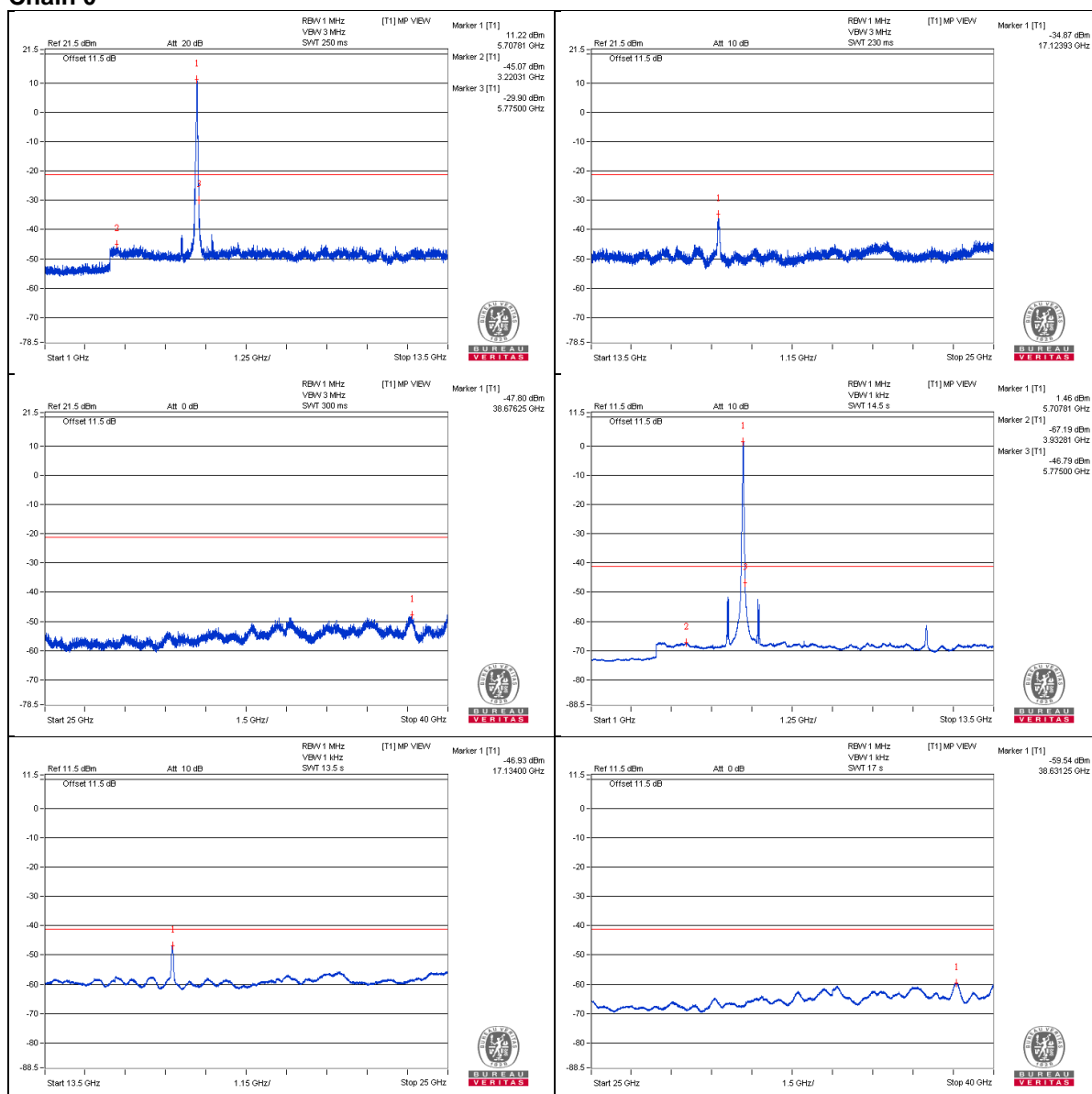
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	3814.06 PK	58.19	74	-15.81	-46.57	-47.22	6.8	-37.07
2	3812.5 AV	37.84	54	-16.16	-67.67	-66.83	6.8	-57.42
3	7618.75 PK	57.96	74	-16.04	-48.79	-45.9	6.8	-37.3
4	7614.06 AV	37.48	54	-16.52	-66.83	-68.51	6.8	-57.78
5	11428.12 PK	58.98	74	-15.02	-46.83	-45.46	6.8	-36.28
6	11428.12 AV	44.73	54	-9.27	-61.28	-59.56	6.8	-50.53
7	17123.93 PK	69.29	68.2	* 1.09	-34.87	-36.93	6.8	-25.97

Note :

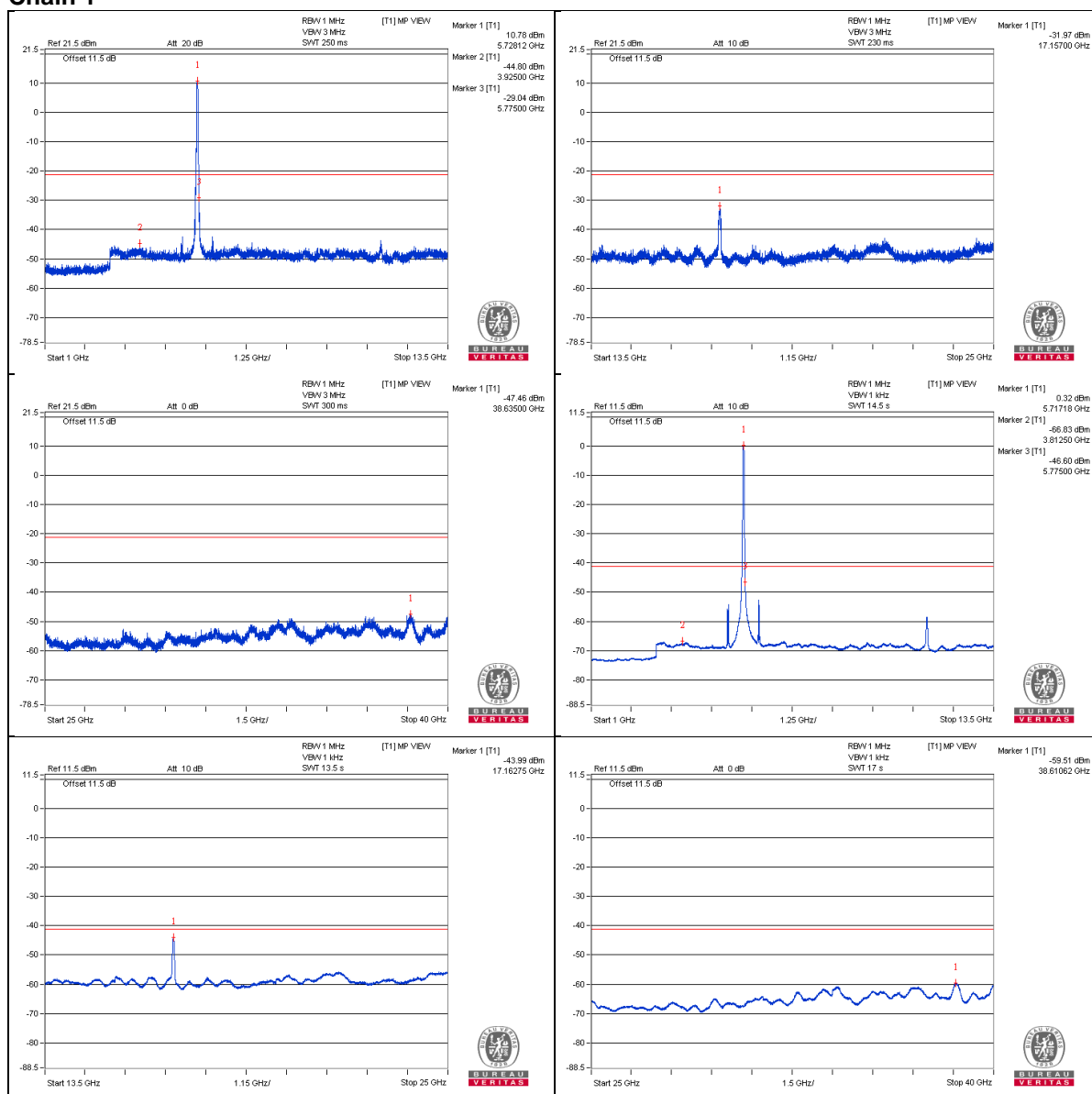
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

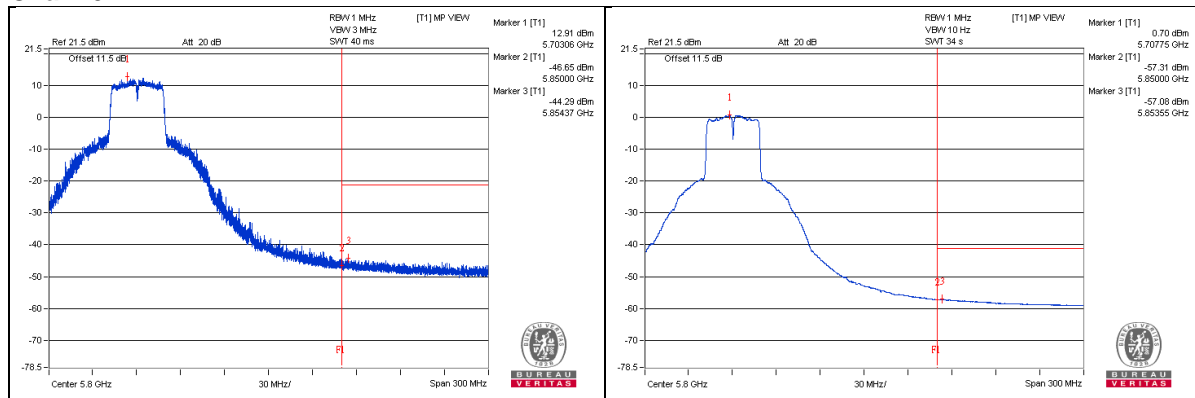
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	5855.95 PK	60.5	74	-13.5	-46.33	-43.32	6.8	-34.76
2	5851.3 AV	48.19	54	-5.81	-57.24	-56.54	6.8	-47.07

Note :

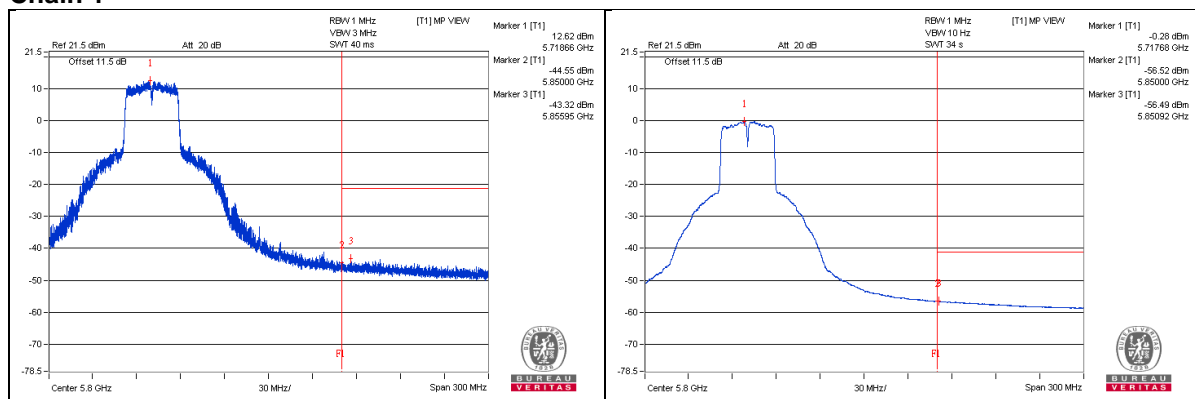
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



### 802.11ac (VHT40) – Channel 151

#### Conducted spurious emission table

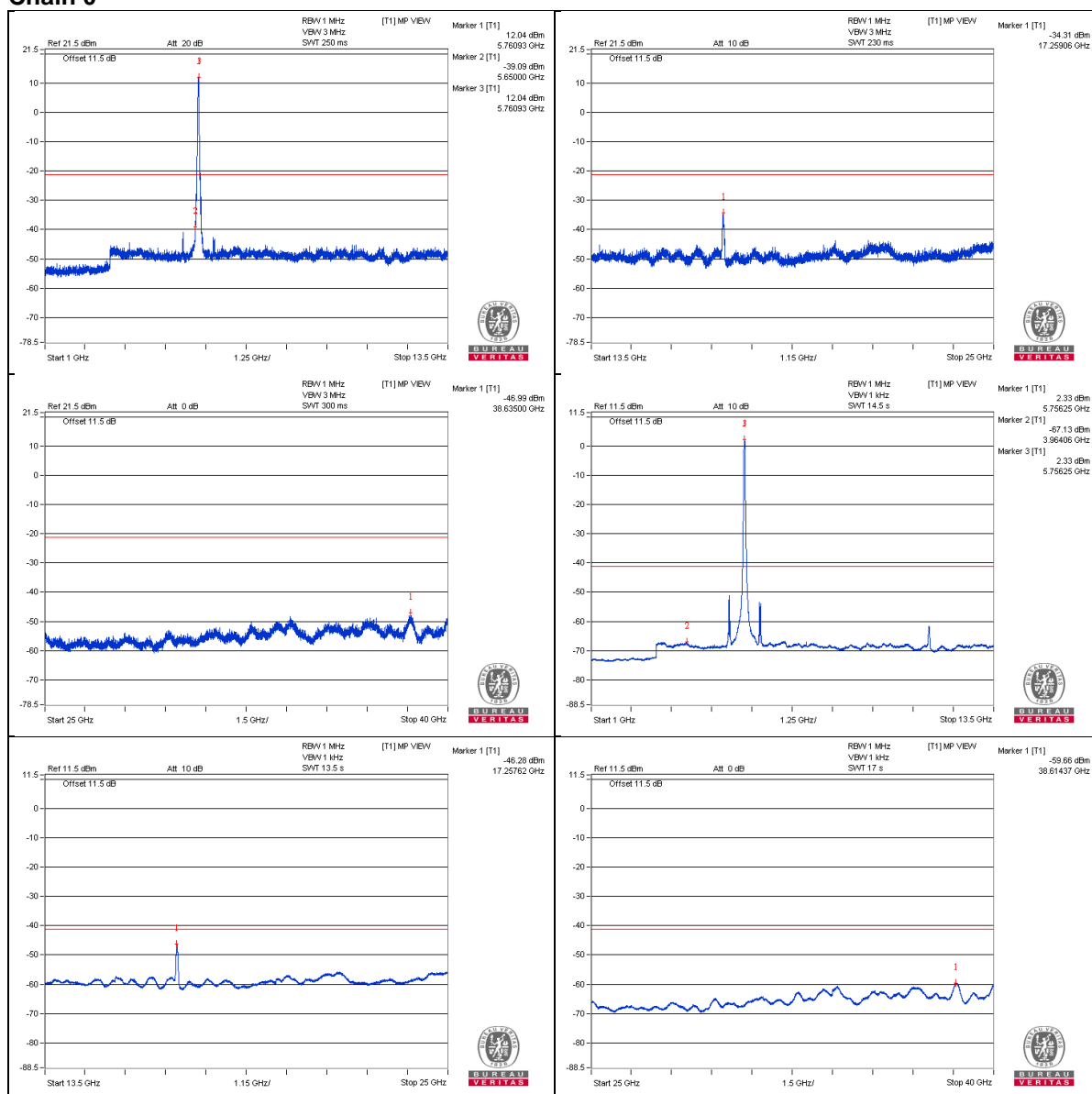
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	3840.62 PK	57.84	74	-16.16	-47.67	-46.83	6.8	-37.42
2	3835.93 AV	37.43	54	-16.57	-67.9	-67.4	6.8	-57.83
3	7673.43 PK	57.3	74	-16.7	-48.26	-47.33	6.8	-37.96
4	7673.43 AV	37.3	54	-16.7	-67.06	-68.61	6.8	-57.96
5	11509.37 PK	59.38	74	-14.62	-47.87	-44.25	6.8	-35.88
6	11509.37 AV	45.23	54	-8.77	-61.52	-58.63	6.8	-50.03
7	17259.06 PK	72.83	68.2	* 4.63	-34.31	-30.85	6.8	-22.43

Note :

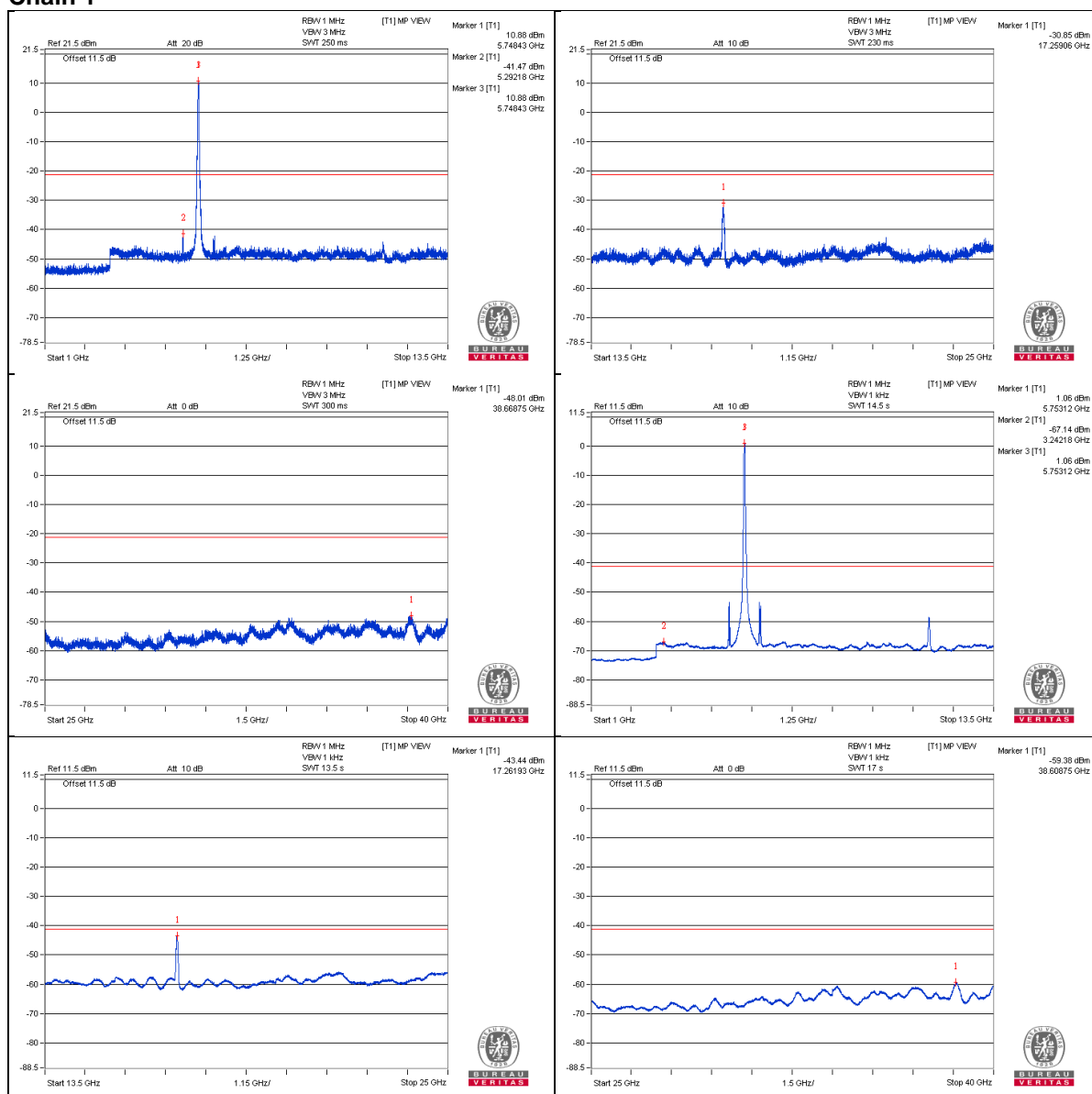
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0

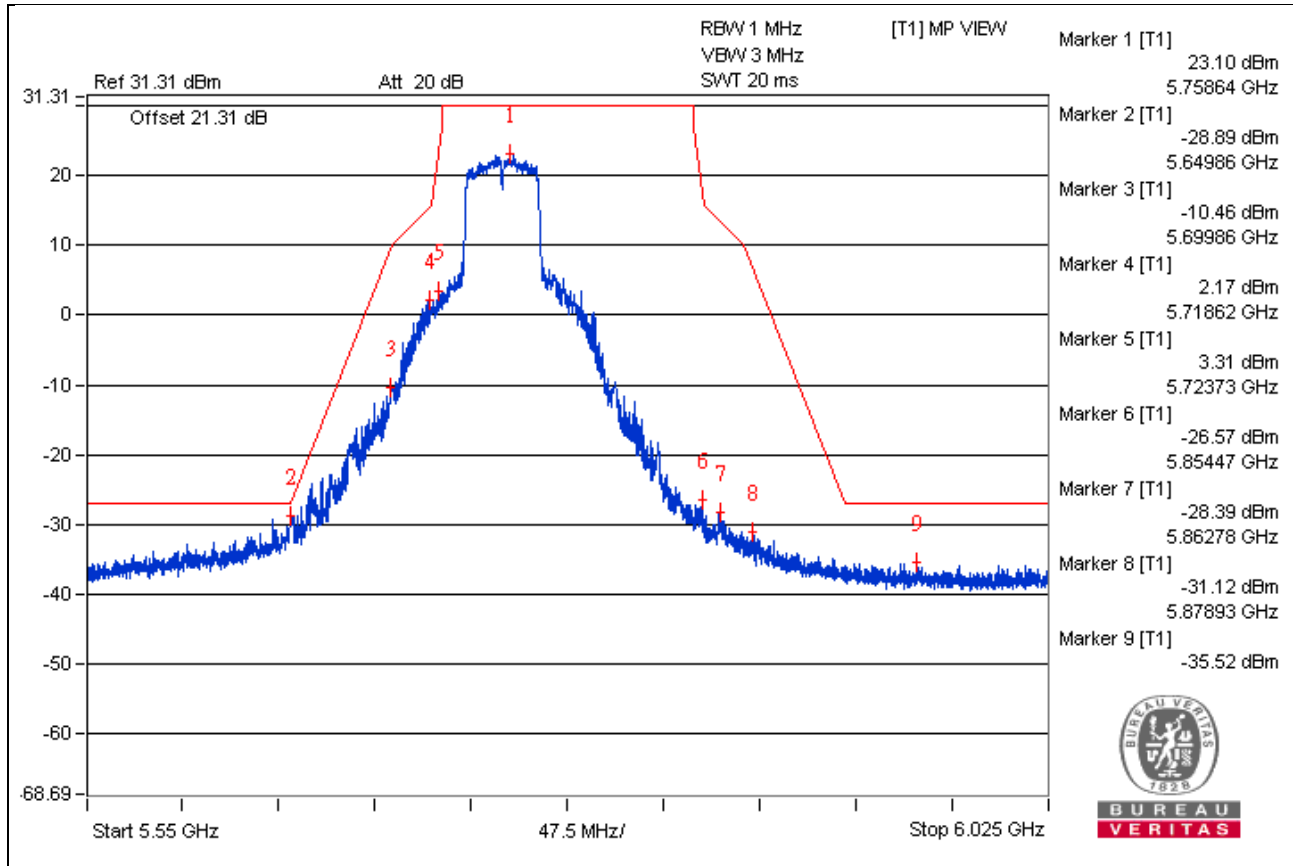


## Chain 1

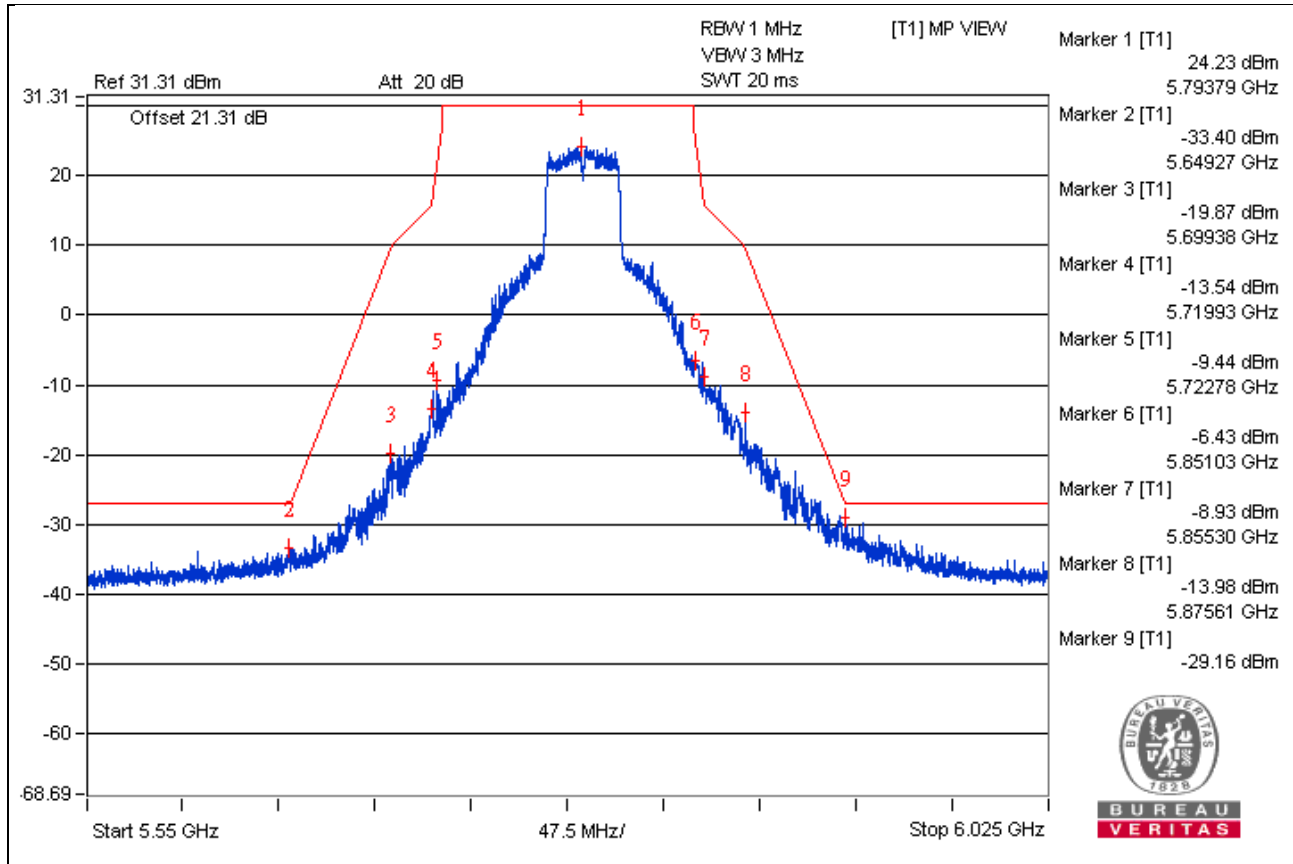


## Bandedge table

### Chain 0



### Chain 1





### 802.11ac (VHT40) – Channel 159

#### Conducted spurious emission table

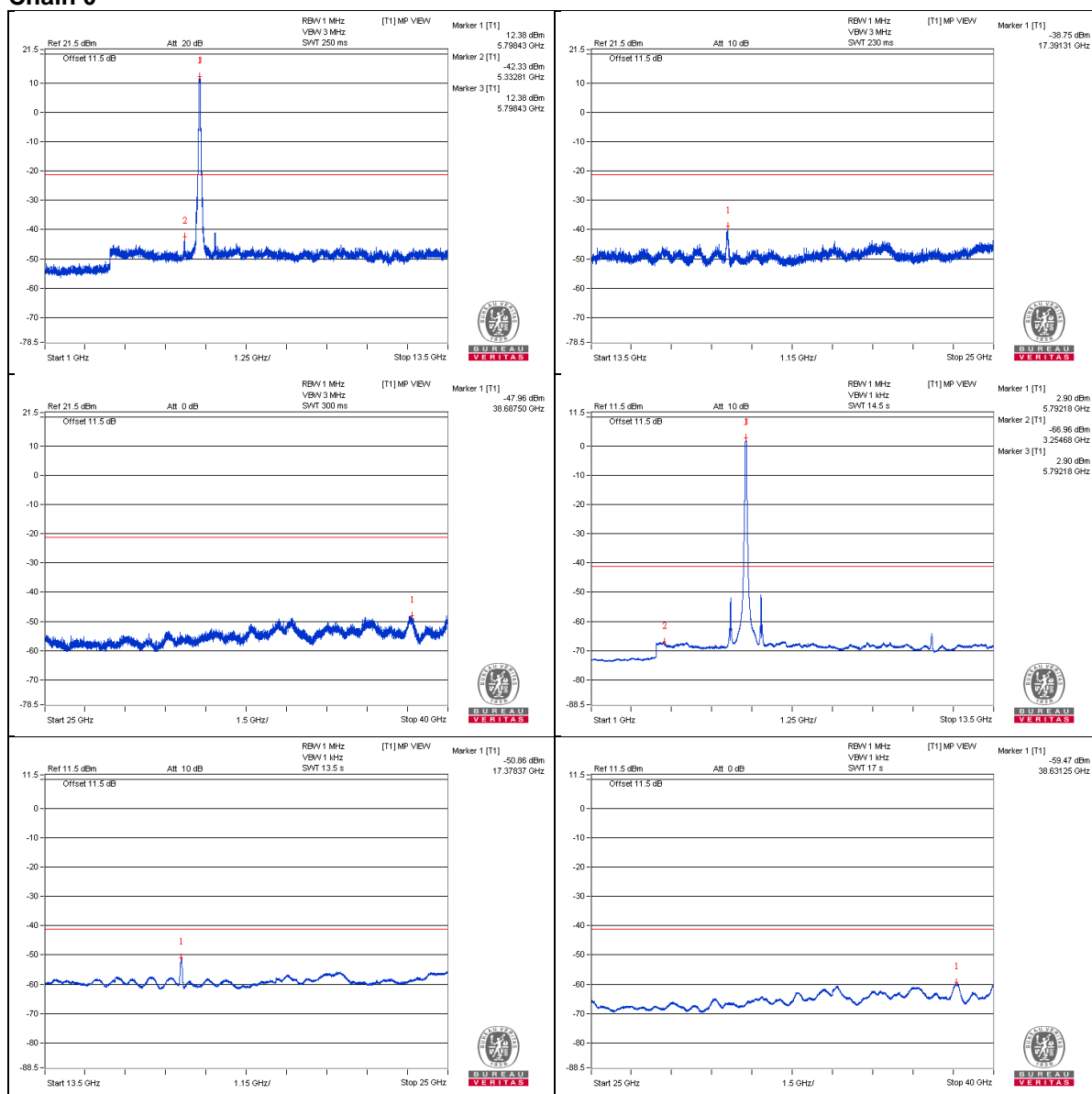
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	3868.75 PK	57.7	74	-16.3	-47.75	-47.03	6.8	-37.56
2	3862.5 AV	37.57	54	-16.43	-67.82	-67.2	6.8	-57.69
3	7729.68 PK	57.53	74	-16.47	-46.54	-48.85	6.8	-37.73
4	7726.56 AV	37.03	54	-16.97	-67.48	-68.69	6.8	-58.23
5	11582.81 PK	58.25	74	-15.75	-49.2	-45.29	6.8	-37.01
6	11589.06 AV	43.52	54	-10.48	-64.34	-59.87	6.8	-51.74
7	17375.5 PK	70.96	68.2	* 2.76	-41.12	-31.56	6.8	-24.3

Note :

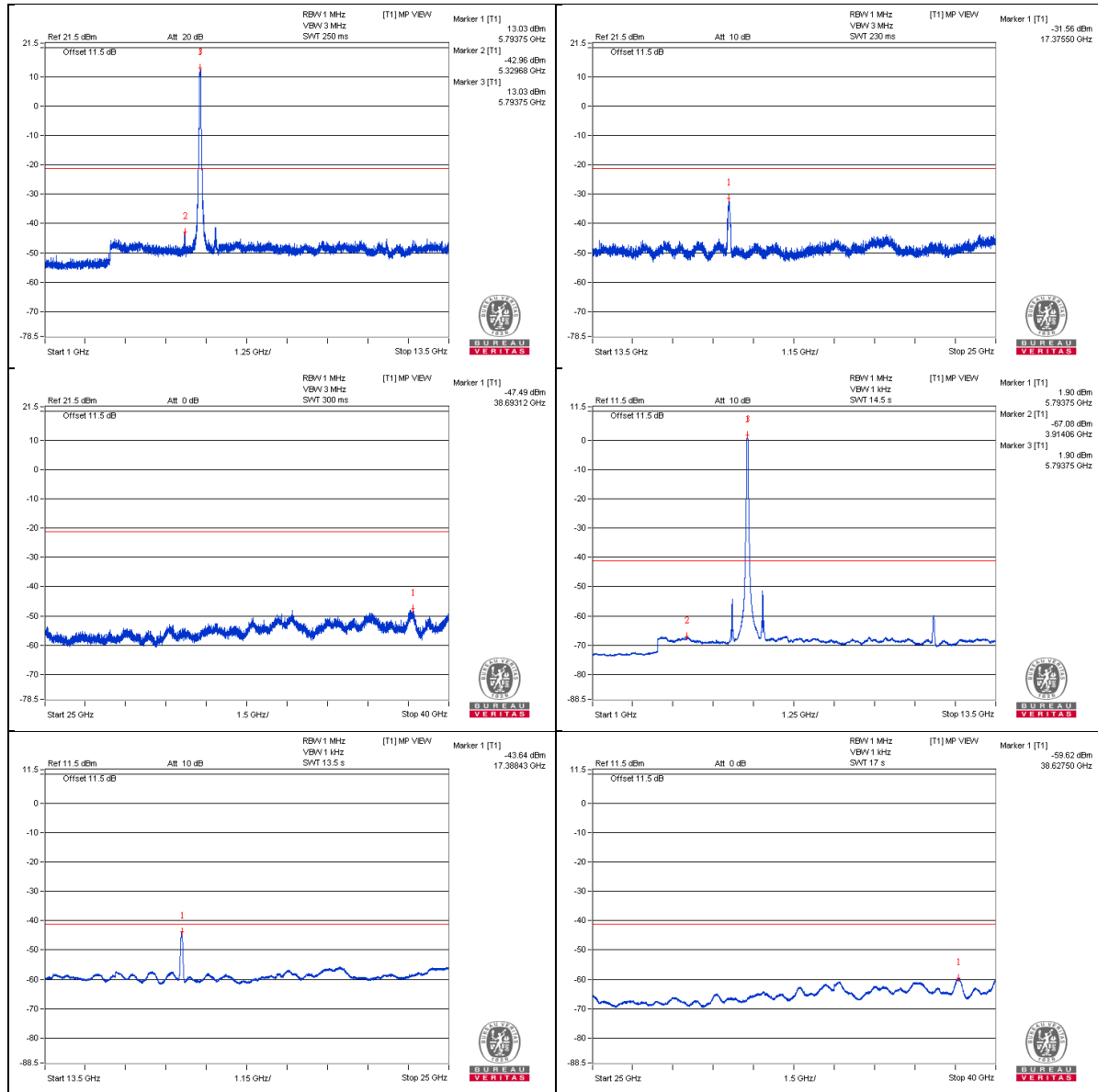
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0

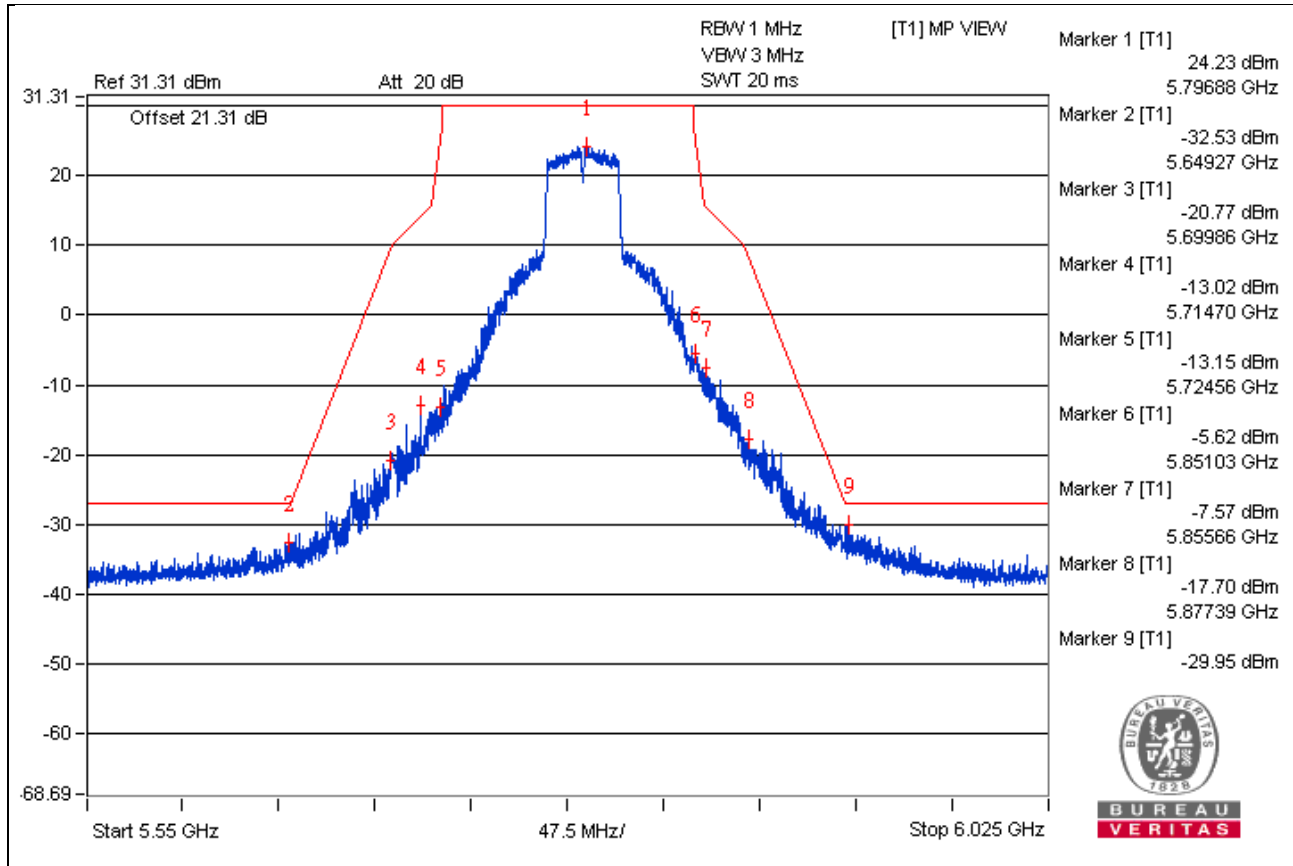


## Chain 1

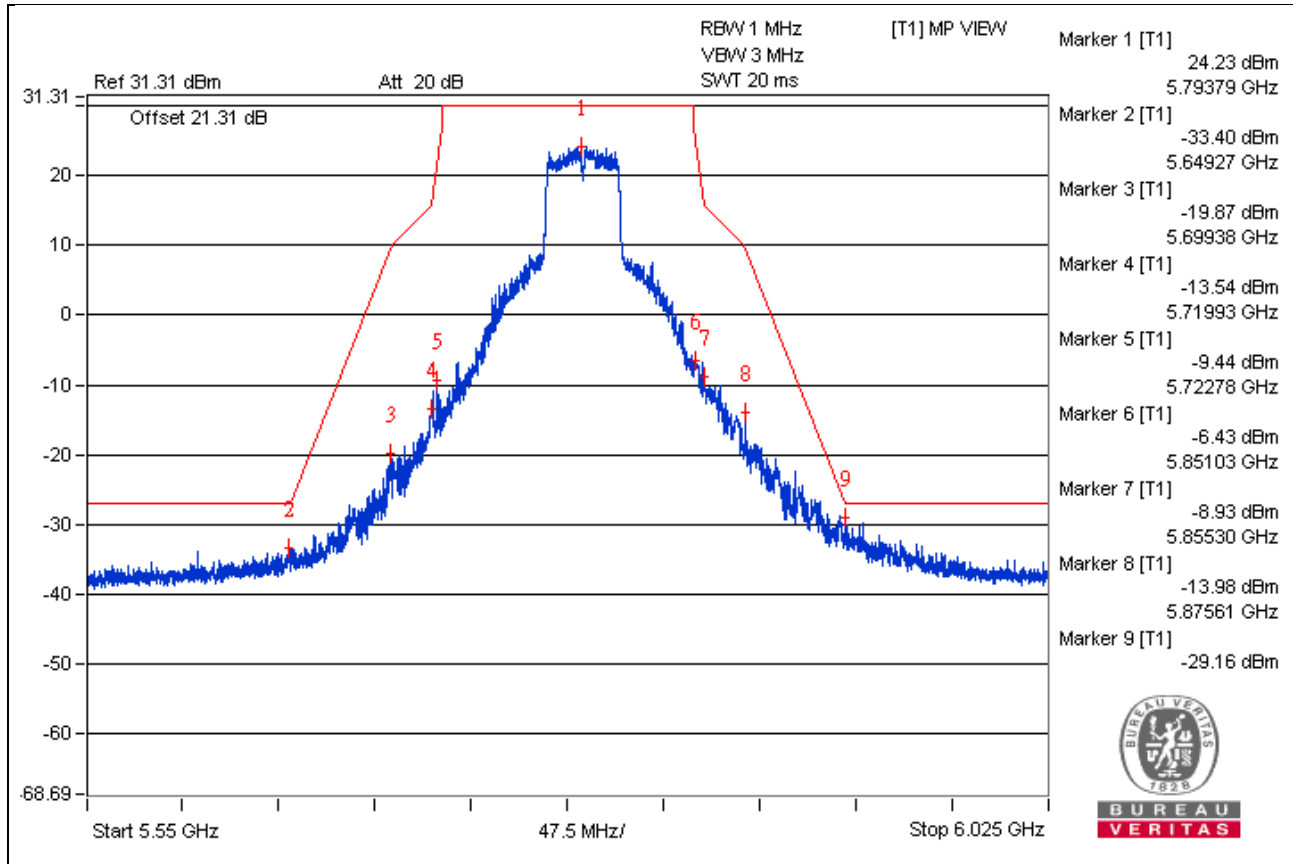


## Bandedge table

### Chain 0



### Chain 1



# 802.11ac (VHT80) - Channel 42

## Conducted spurious emission table

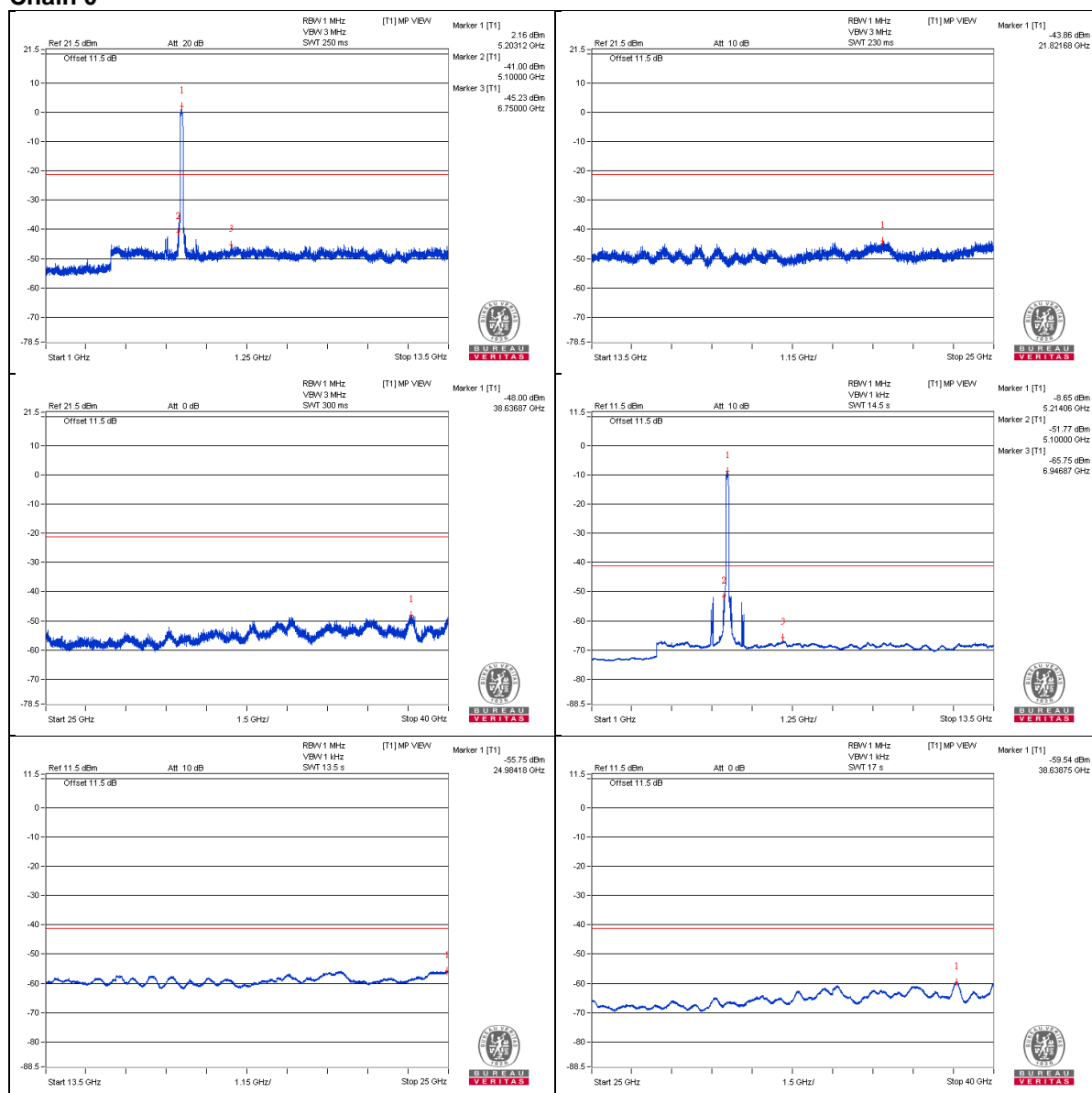
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	3470.31 PK	57.34	74	-16.66	-46.65	-49.17	6.8	-37.92
2	3473.43 AV	37.35	54	-16.65	-67.59	-67.85	6.8	-57.91
3	6945.31 PK	58.33	74	-15.67	-46.2	-47.35	6.8	-36.93
4	6946.87 AV	39.32	54	-14.68	-65.75	-65.75	6.8	-55.94
5	10410.93 PK	57.44	74	-16.56	-46.39	-49.37	6.8	-37.82
6	10414.06 AV	36.64	54	-17.36	-68.4	-68.47	6.8	-58.62
7	15637.56 PK	58.59	74	-15.41	-46.76	-46.21	6.8	-36.67
8	15623.18 AV	47.53	54	-6.47	-57.55	-57.53	6.8	-47.73

Note :

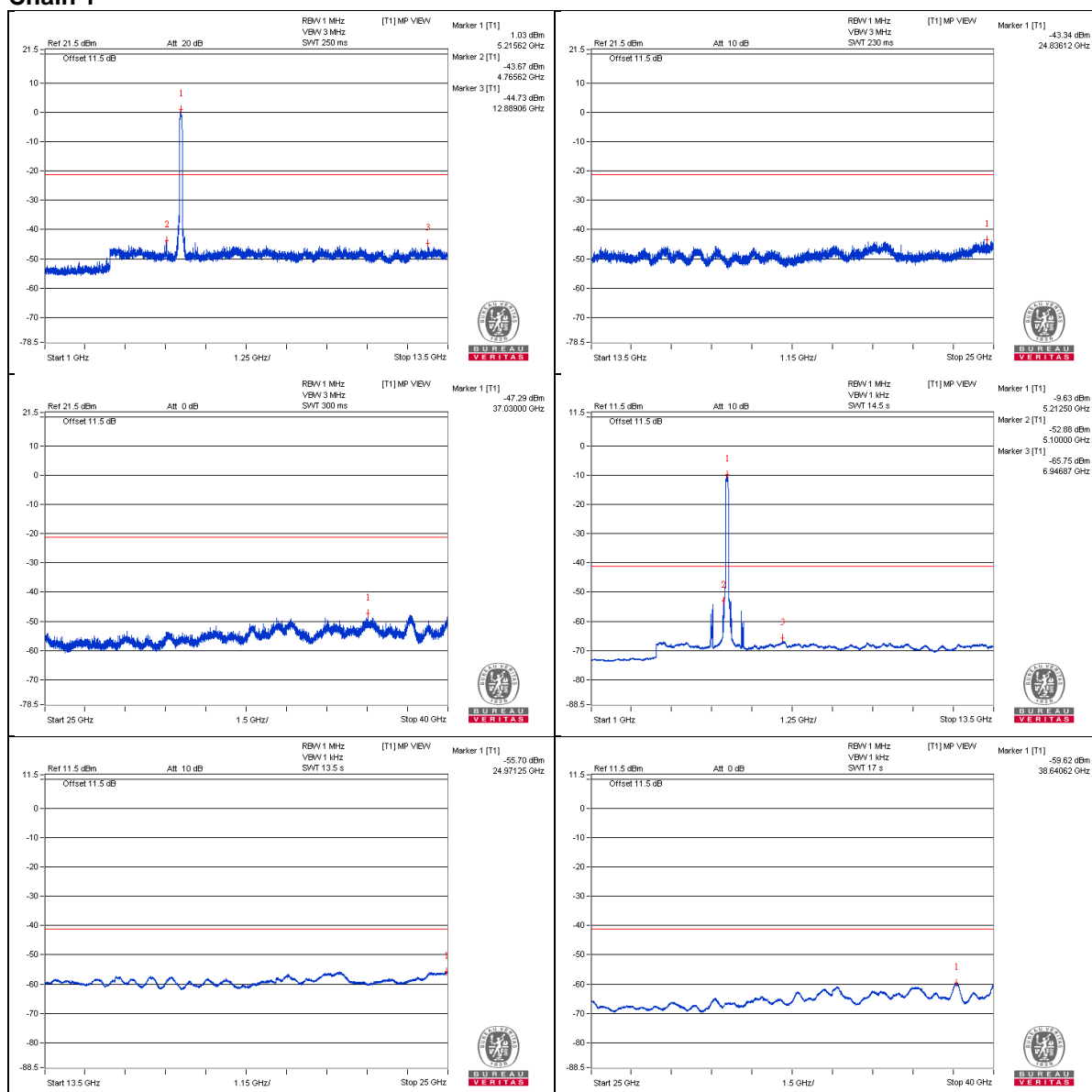
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

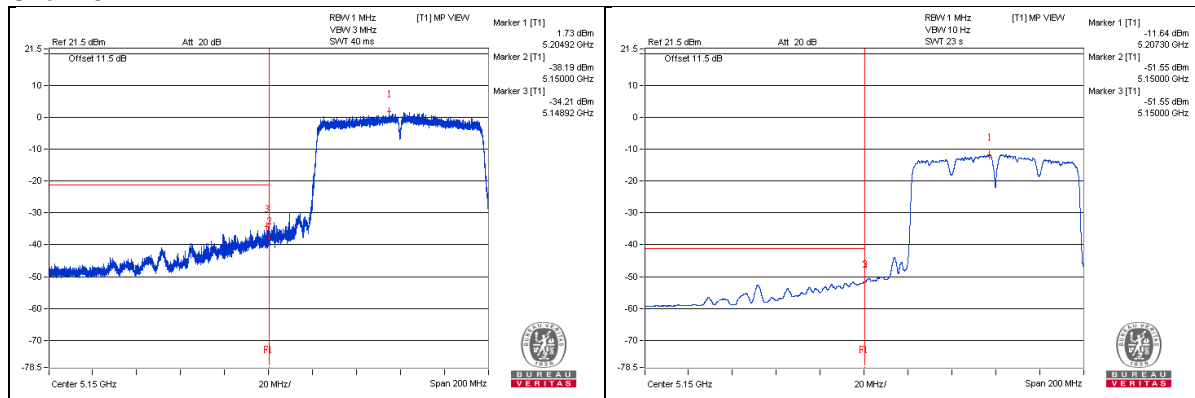
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	5148.92 PK	68.96	74	-5.04	-34.21	-39.55	6.8	-26.3
2	5144.85 AV	53.2	54	-0.8	-51.71	-52.03	6.8	-42.06

Note :

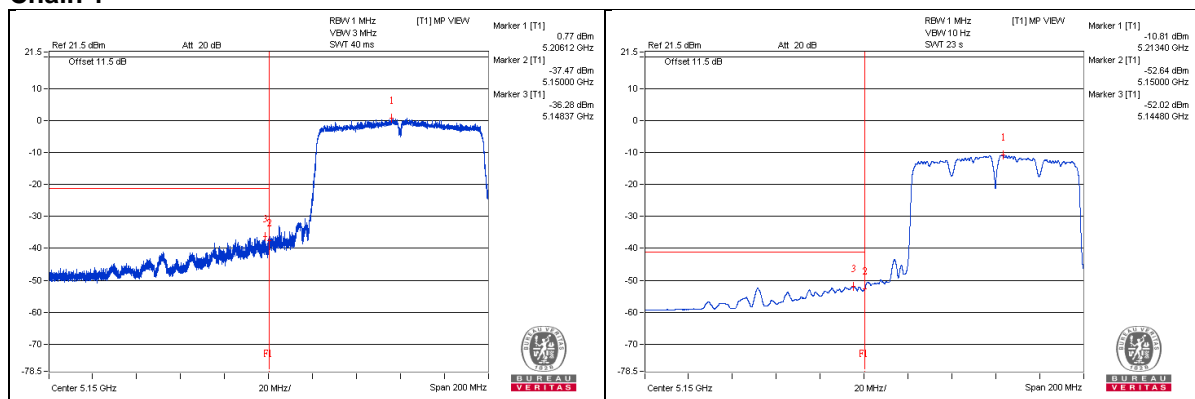
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1





### 802.11ac (VHT80) - Channel 58

#### Conducted spurious emission table

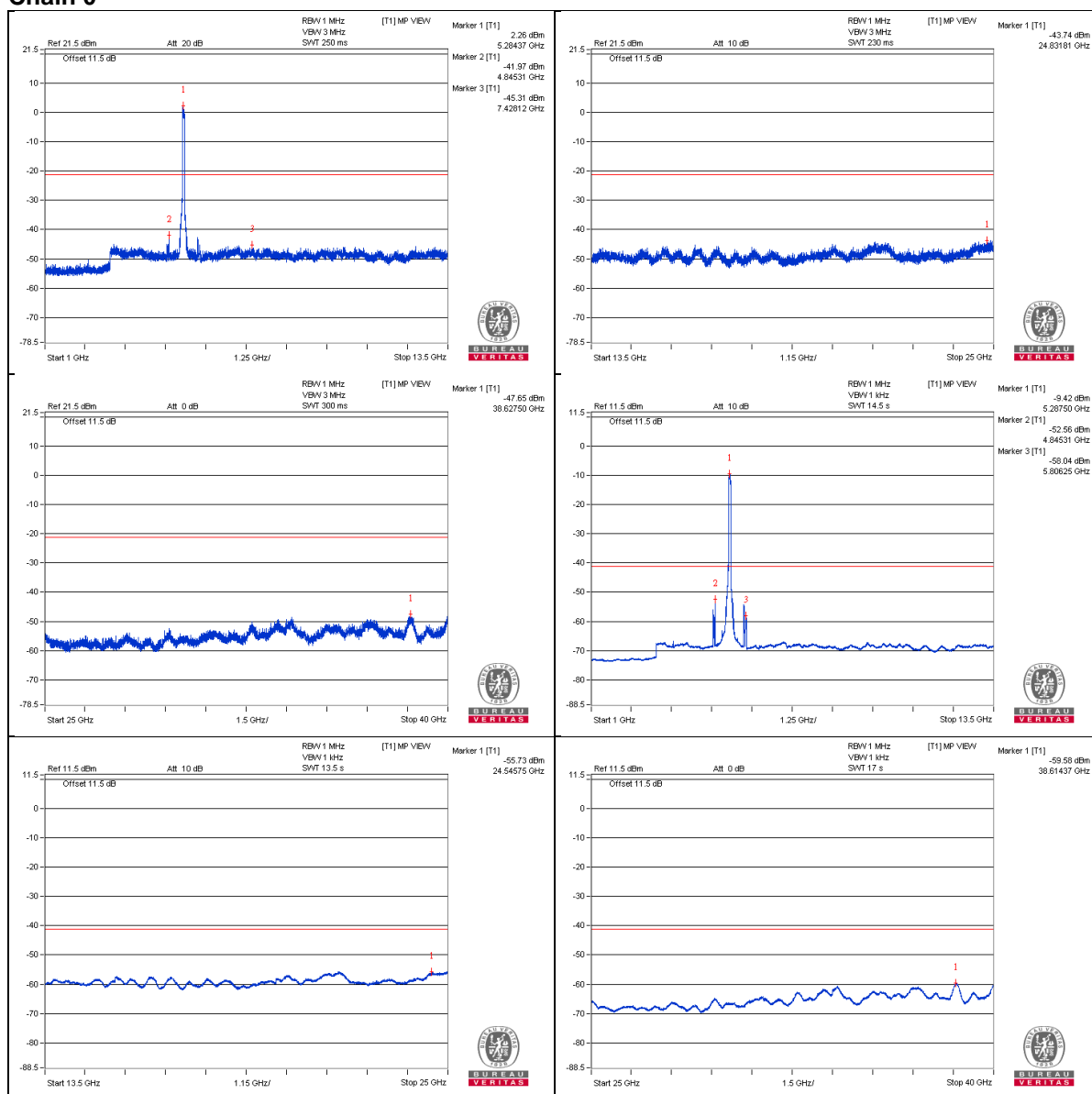
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	3521.87 PK	58.57	74	-15.43	-48.62	-45.08	6.8	-36.69
2	3526.56 AV	37.81	54	-16.19	-66.67	-67.95	6.8	-57.45
3	7045.31 PK	57.79	74	-16.21	-46.65	-48.02	6.8	-37.47
4	7053.12 AV	38.76	54	-15.24	-68.41	-64.9	6.8	-56.5
5	10585.93 PK	57.15	74	-16.85	-48.25	-47.61	6.8	-38.11
6	10581.25 AV	37.07	54	-16.93	-67.61	-68.44	6.8	-58.19
7	15866.12 PK	56.69	74	-17.31	-48.47	-48.3	6.8	-38.57
8	15879.06 AV	46.21	54	-7.79	-58.88	-58.85	6.8	-49.05

Note :

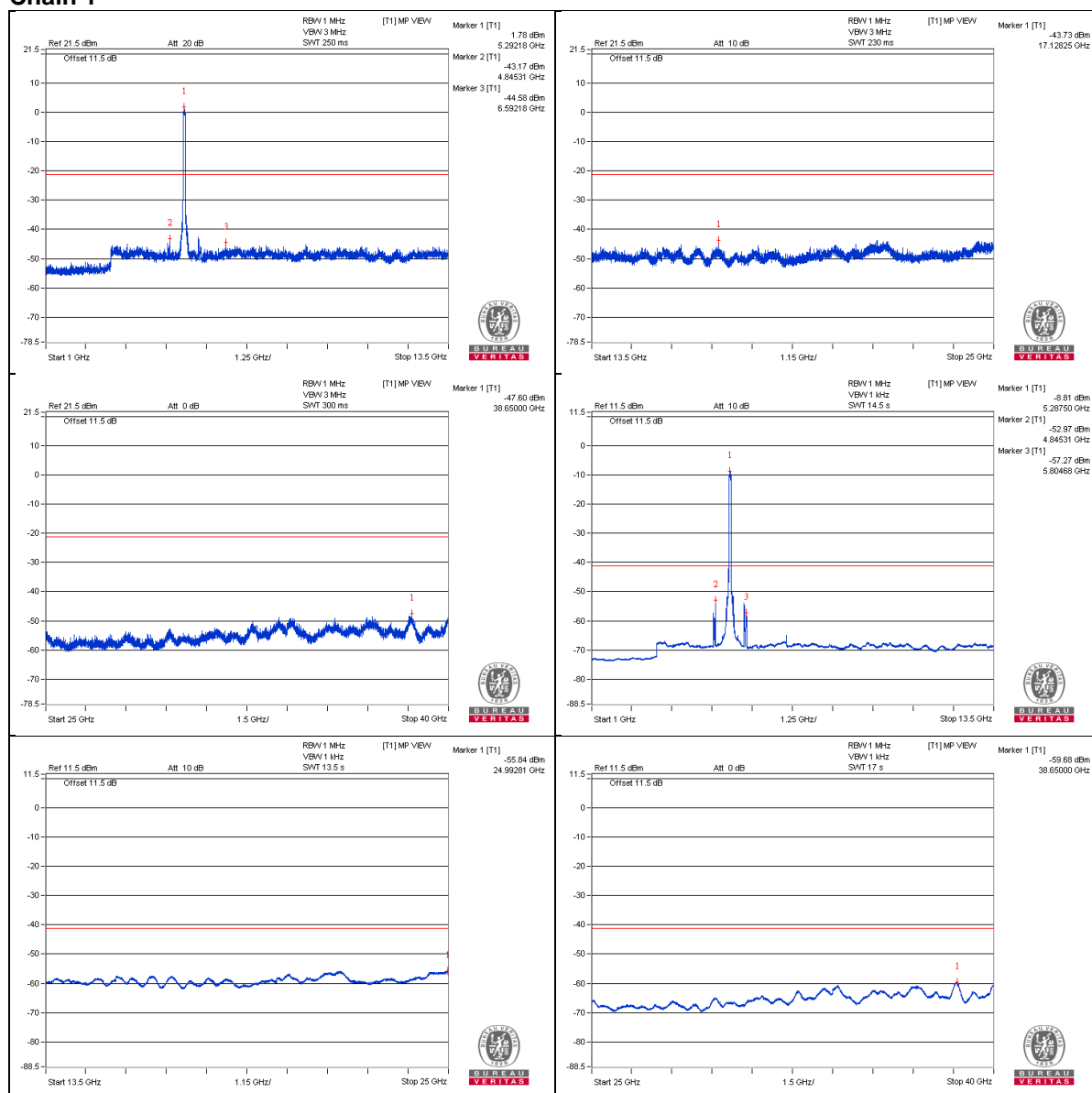
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

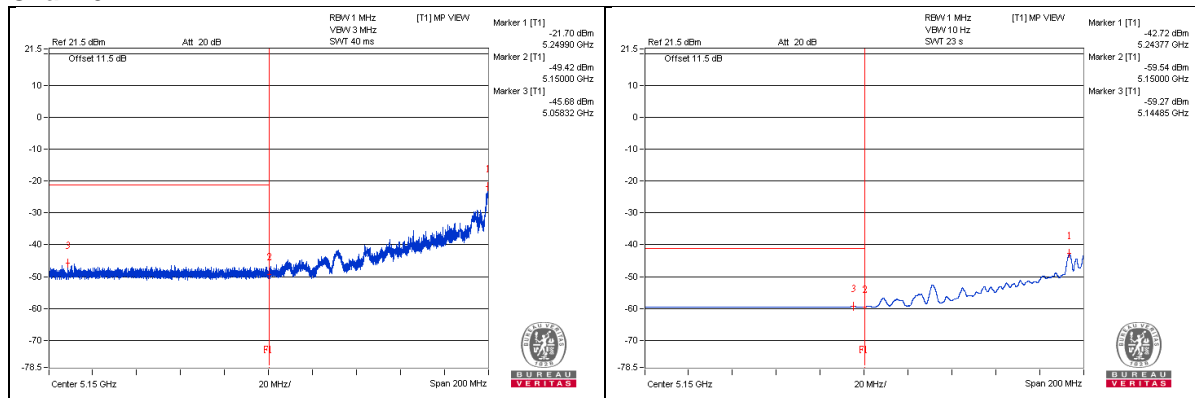
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	5351.07 PK	68.51	74	-5.49	-38.54	-35.2	6.8	-26.75
2	5352.25 AV	53.41	54	-0.59	-51.27	-52.09	6.8	-41.85

Note :

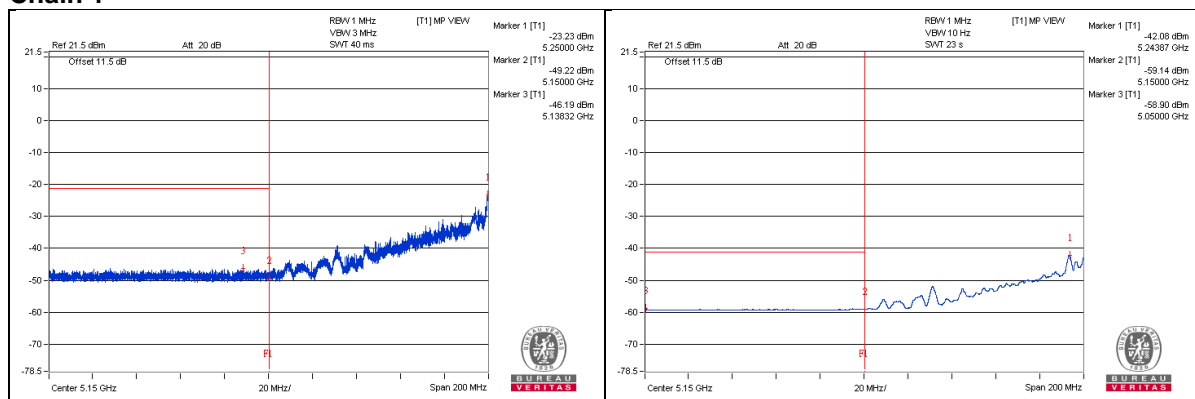
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



# 802.11ac (VHT80) - Channel 106

## Conducted spurious emission table

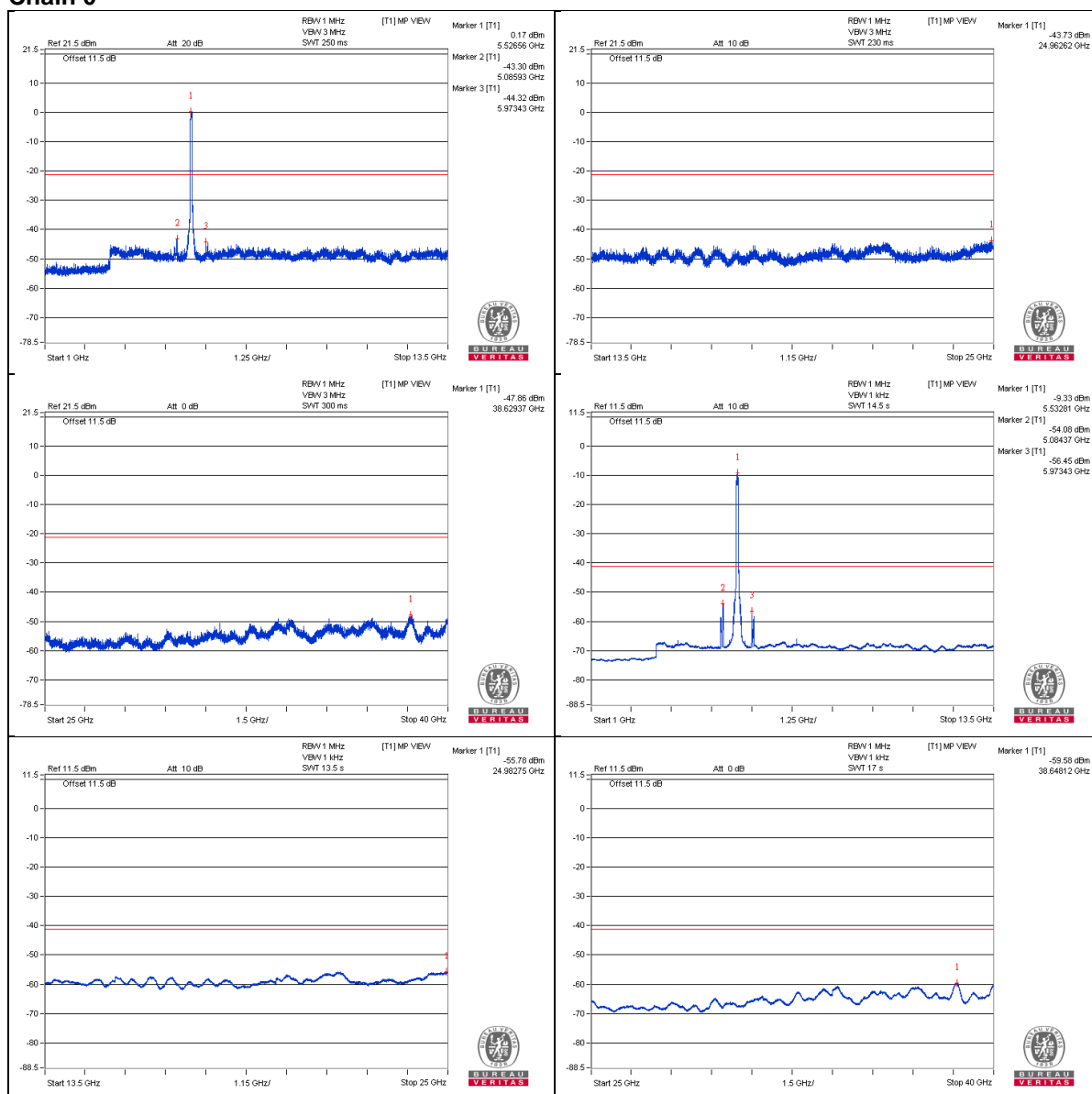
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	3689.06 PK	57.98	74	-16.02	-48.88	-45.83	6.8	-37.28
2	3685.93 AV	38.39	54	-15.61	-66.56	-66.81	6.8	-56.87
3	7373.43 PK	57.46	74	-16.54	-47.62	-47.6	6.8	-37.8
4	7373.43 AV	38.28	54	-15.72	-66.03	-67.71	6.8	-56.98
5	11065.62 PK	56.78	74	-17.22	-48.92	-47.74	6.8	-38.48
6	11060.93 AV	37.44	54	-16.56	-69.17	-66.5	6.8	-57.82
7	16587.75 PK	58.71	74	-15.29	-46.89	-45.88	6.8	-36.55
8	16597.81 AV	47.44	54	-6.56	-57.77	-57.49	6.8	-47.82

Note :

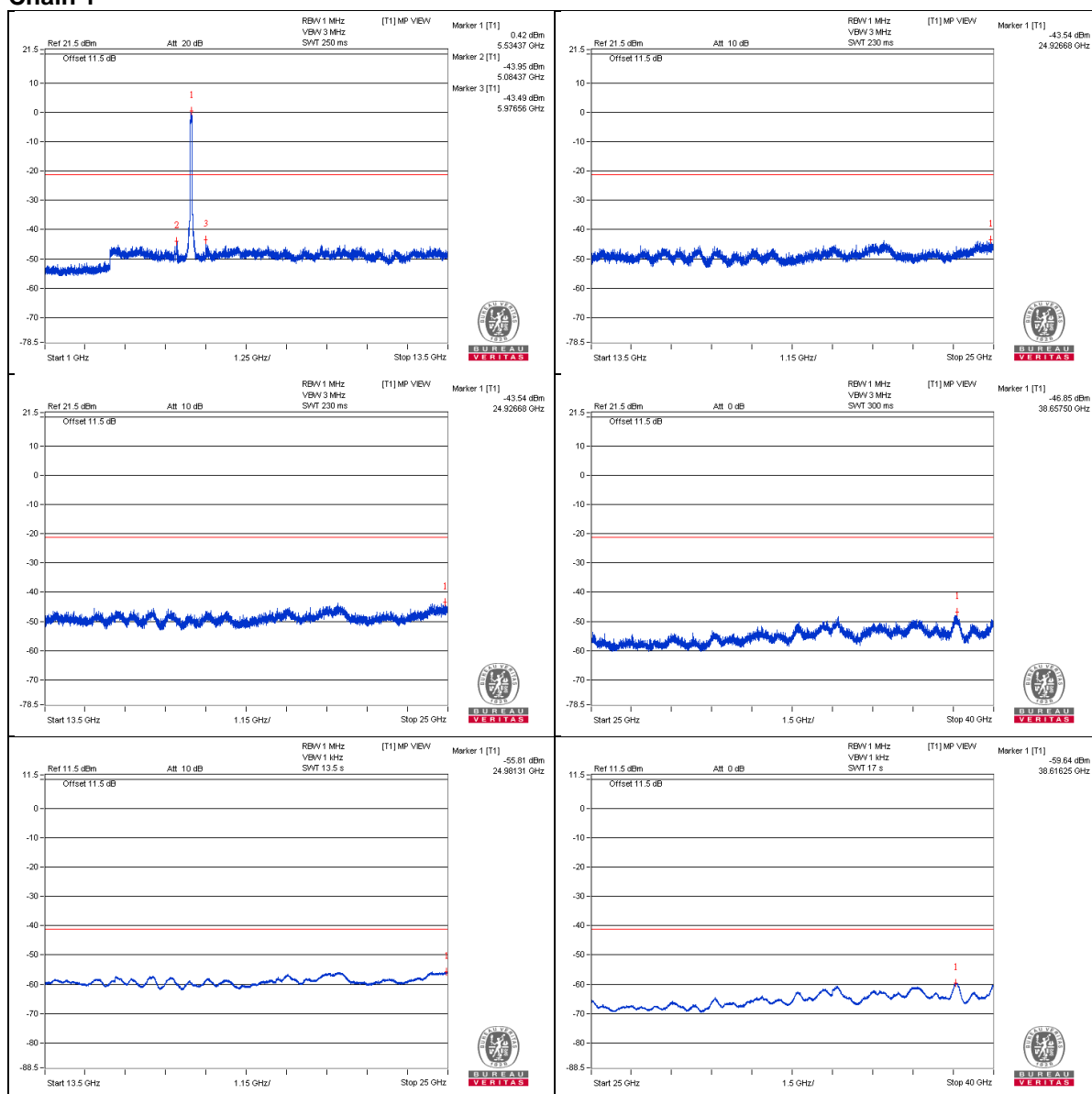
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

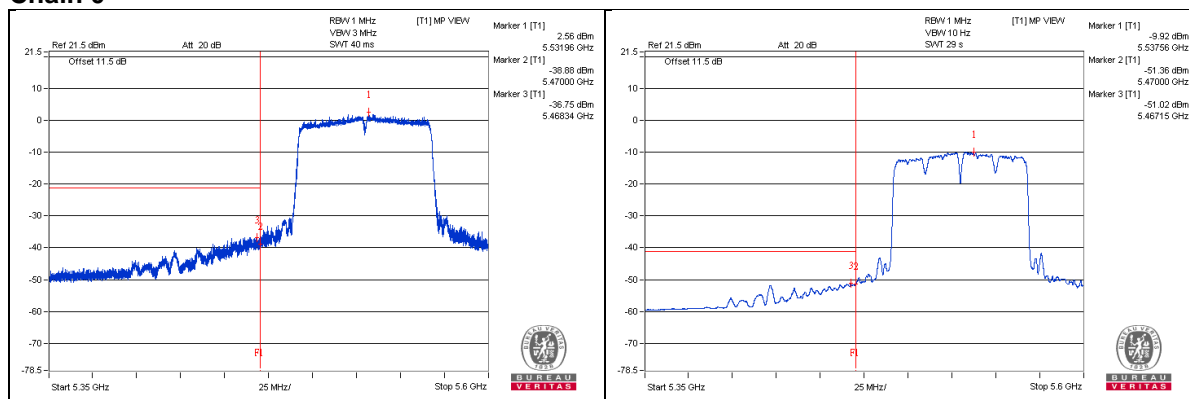
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	5466.81 PK	68.07	74	-5.93	-38.23	-36.04	6.8	-27.19
2	5468.81 AV	53.59	54	-0.41	-51.61	-51.36	6.8	-41.67

Note :

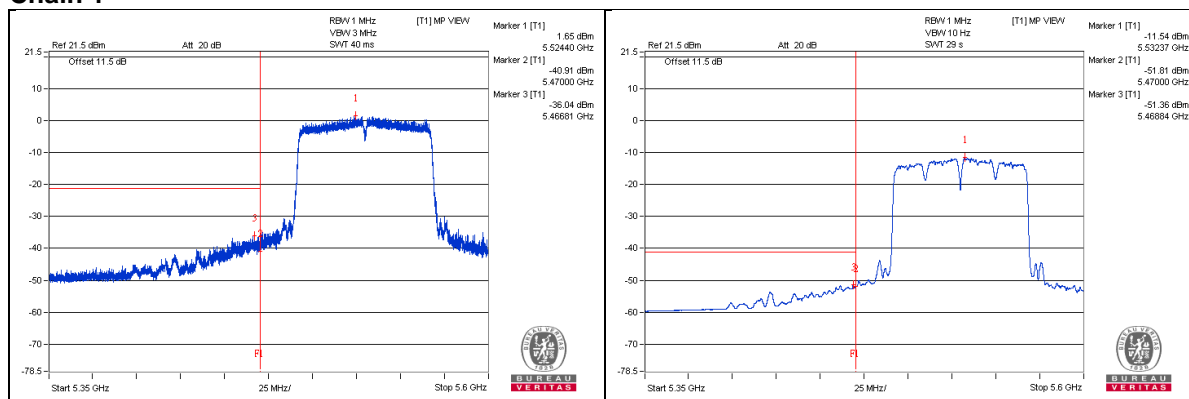
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1





### 802.11ac (VHT80) - Channel 122

#### Conducted spurious emission table

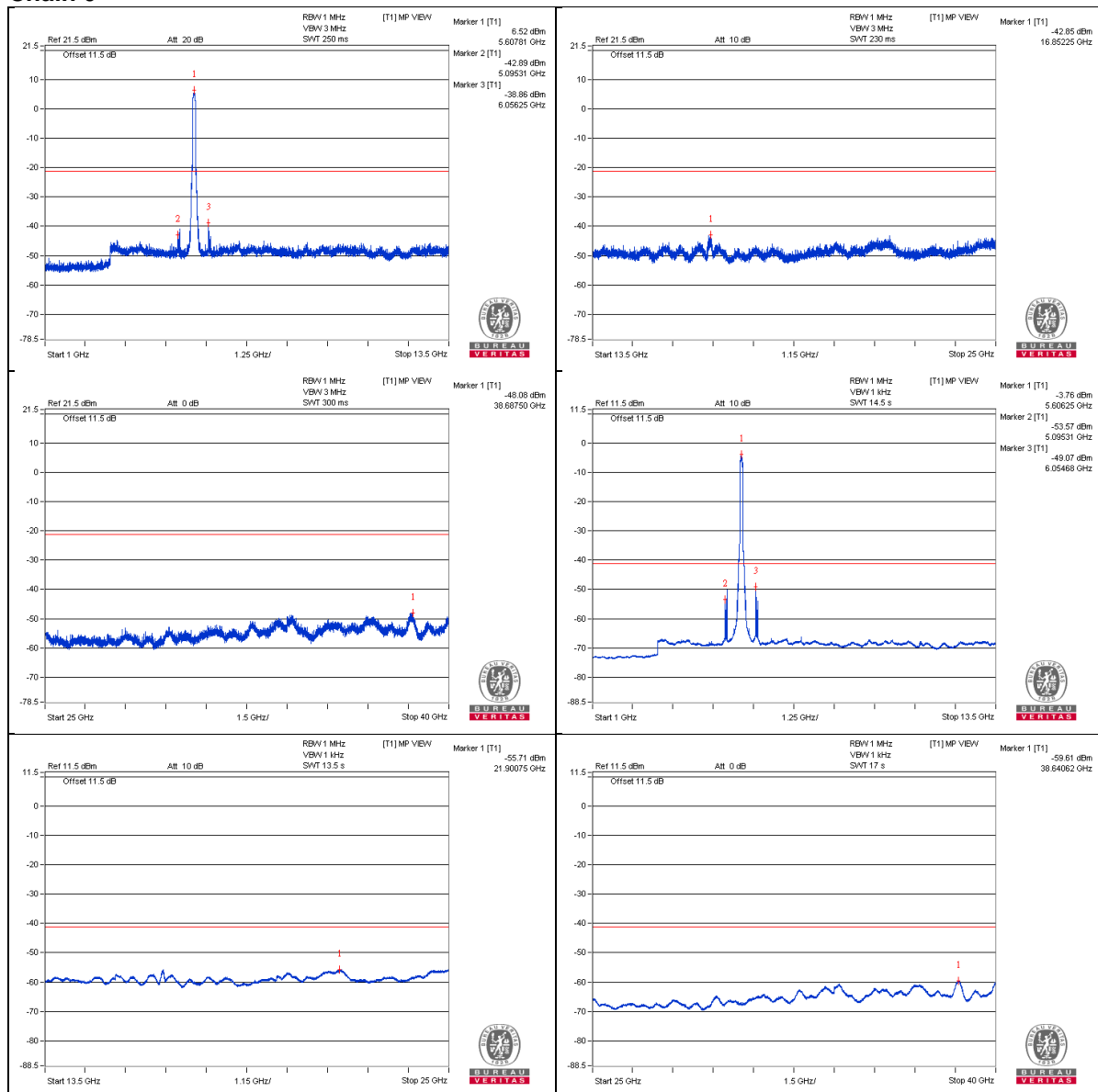
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	3732.81 PK	58.77	74	-15.23	-47.41	-45.42	6.8	-36.49
2	3739.06 AV	37.88	54	-16.12	-67.38	-67	6.8	-57.38
3	7487.5 PK	57.73	74	-16.27	-46.67	-48.14	6.8	-37.53
4	7479.68 AV	38.05	54	-15.95	-66.36	-67.81	6.8	-57.21
5	11210.93 PK	56.7	74	-17.3	-49.45	-47.5	6.8	-38.56
6	11229.68 AV	39.89	54	-14.11	-68.8	-63.23	6.8	-55.37
7	16824.93 PK	61.01	74	-12.99	-44.26	-43.86	6.8	-34.25
8	16839.31 AV	49.82	54	-4.18	-56.22	-54.46	6.8	-45.44

Note :

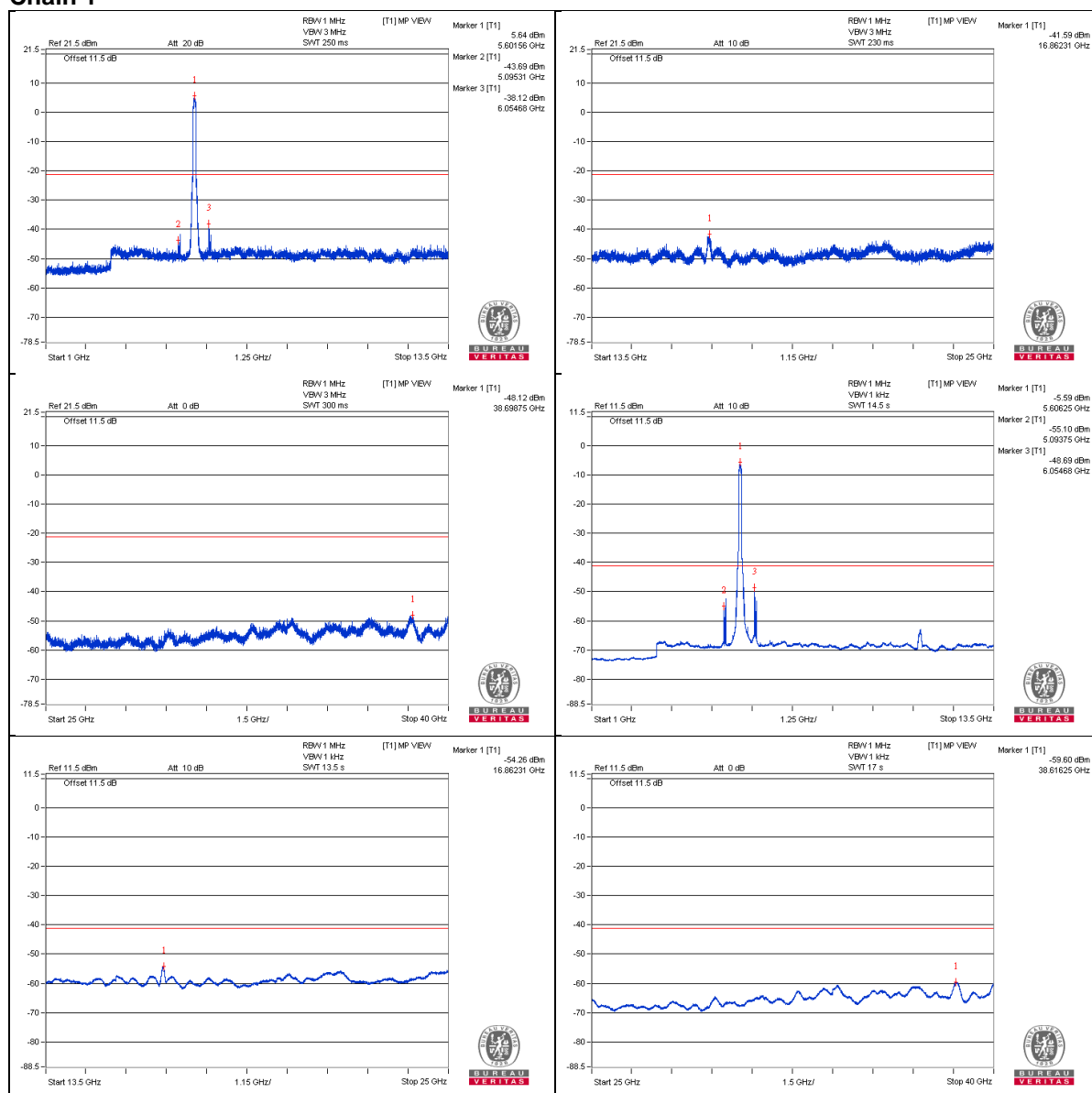
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

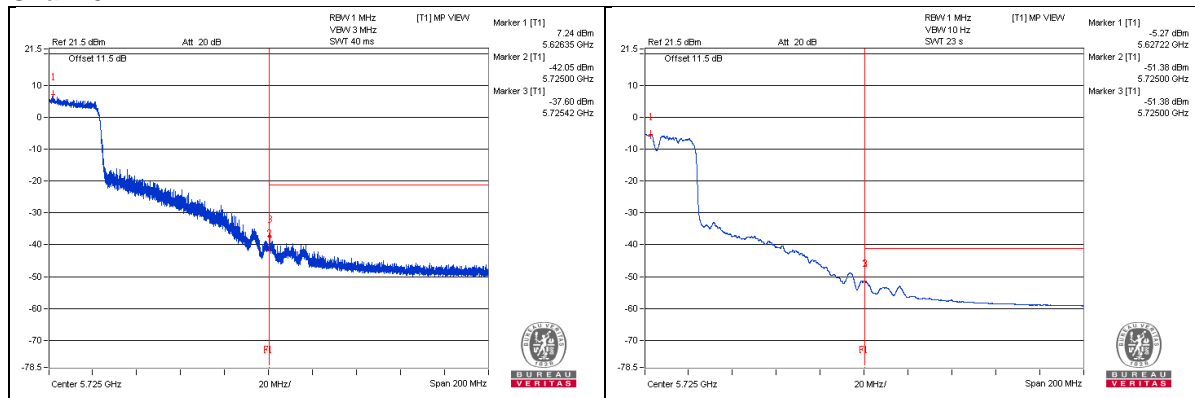
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	5725.42 PK	65.72	74	-8.28	-37.6	-42.34	6.8	-29.54
2	5725 AV	53.46	54	-0.54	-51.38	-51.85	6.8	-41.8

Note :

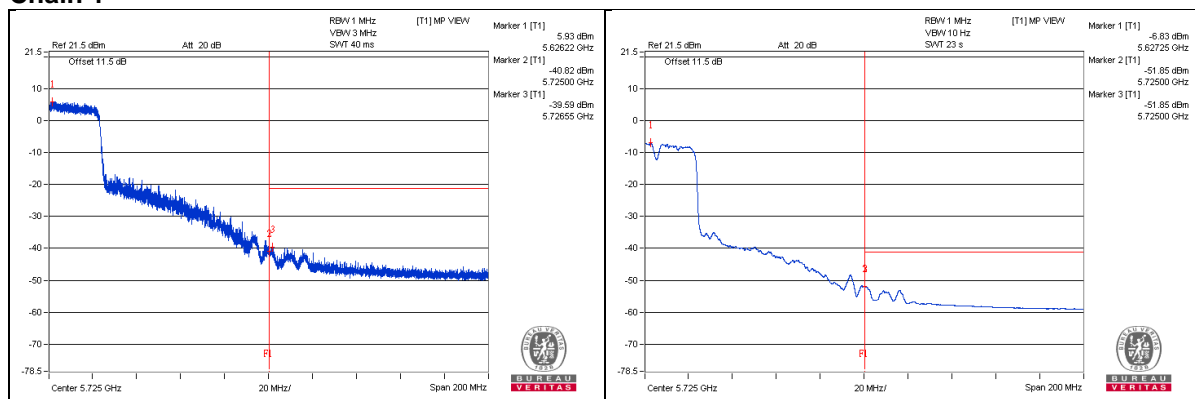
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



# 802.11ac (VHT80) – Channel 138

## Conducted spurious emission table

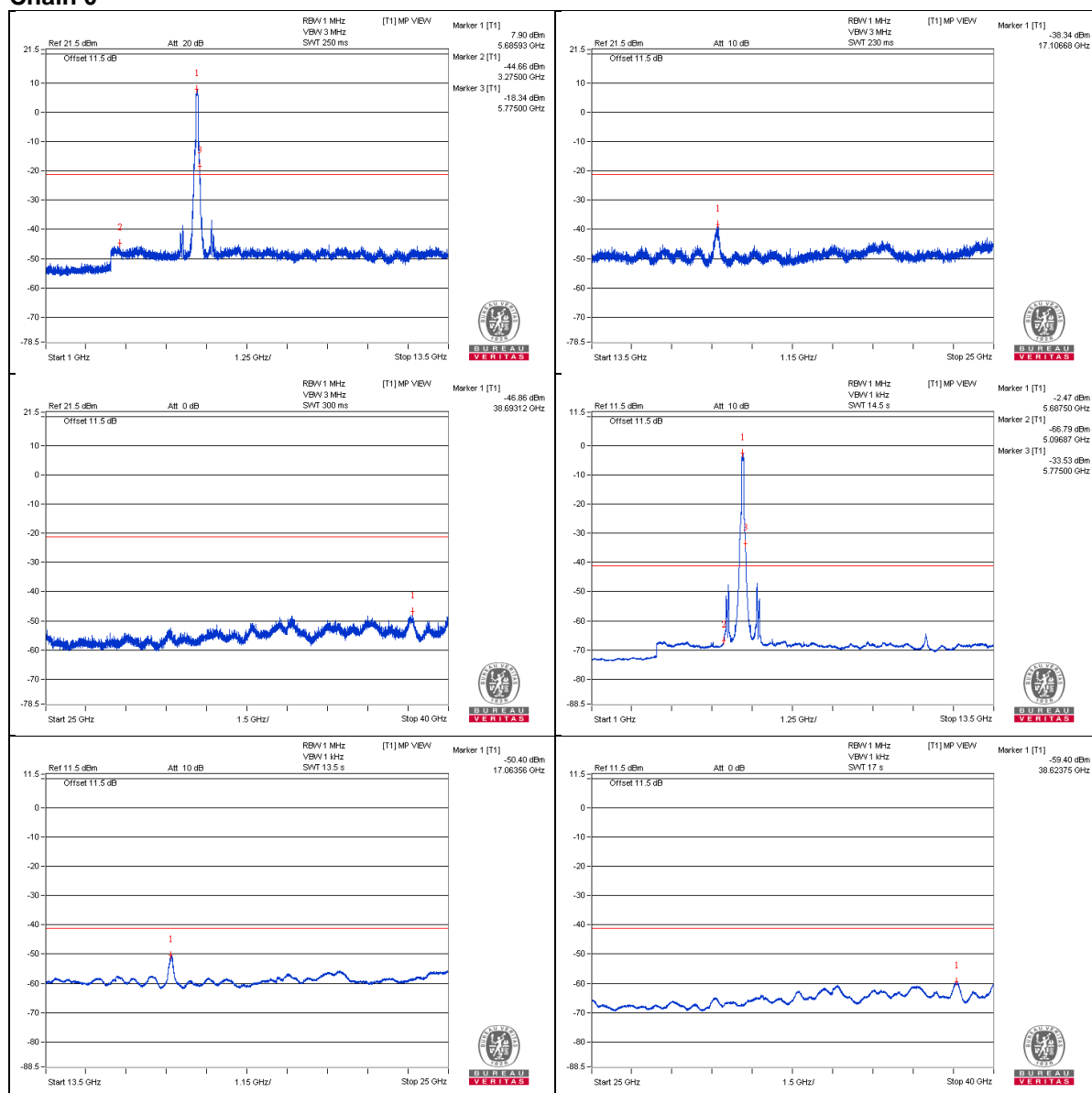
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	3785.93 PK	58.59	74	-15.41	-46.52	-46.45	6.8	-36.67
2	3792.18 AV	37.91	54	-16.09	-67.86	-66.55	6.8	-57.35
3	7593.75 PK	57.45	74	-16.55	-46.63	-48.91	6.8	-37.81
4	7585.93 AV	37.31	54	-16.69	-67.39	-68.16	6.8	-57.95
5	11370.31 PK	58.86	74	-15.14	-45.93	-46.52	6.8	-36.4
6	11387.5 AV	42.78	54	-11.22	-65.98	-60.32	6.8	-52.48
7	17073.62 PK	67.89	68.2	-0.31	-40.07	-35.46	6.8	-27.37

Note :

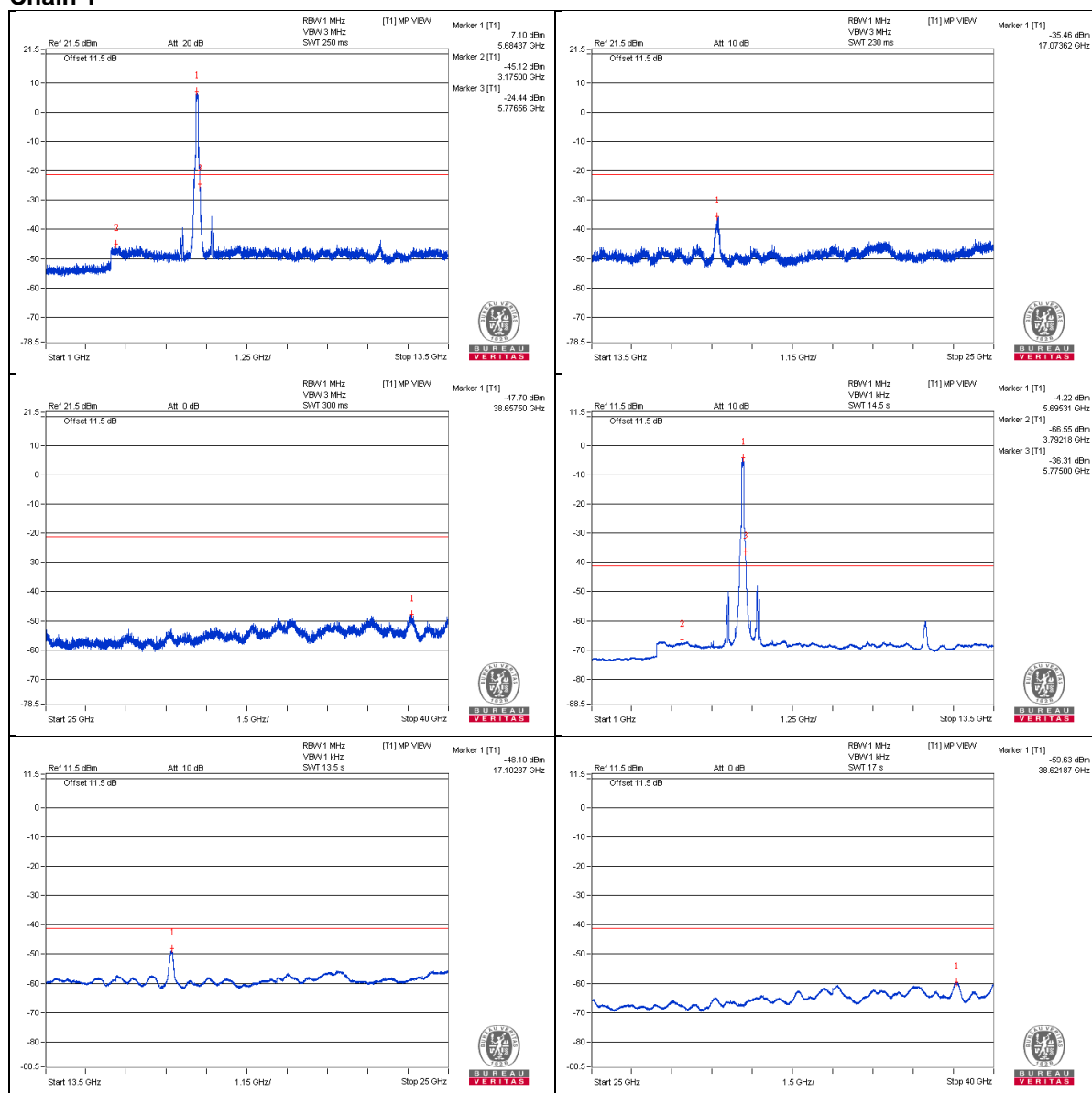
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1



## Bandedge table

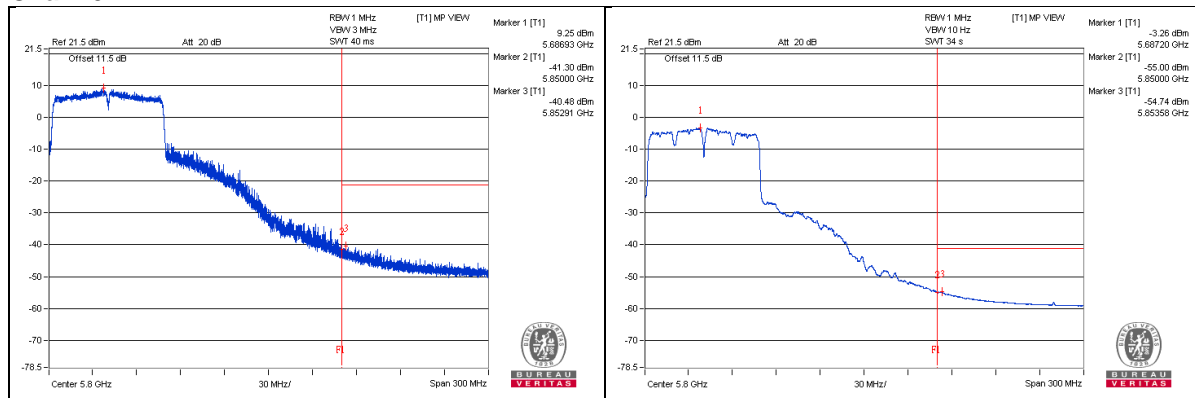
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	5855.2 PK	64.27	74	-9.73	-42.8	-39.44	6.8	-30.99
2	5850.96 AV	49.79	54	-4.21	-54.82	-55.8	6.8	-45.47

Note :

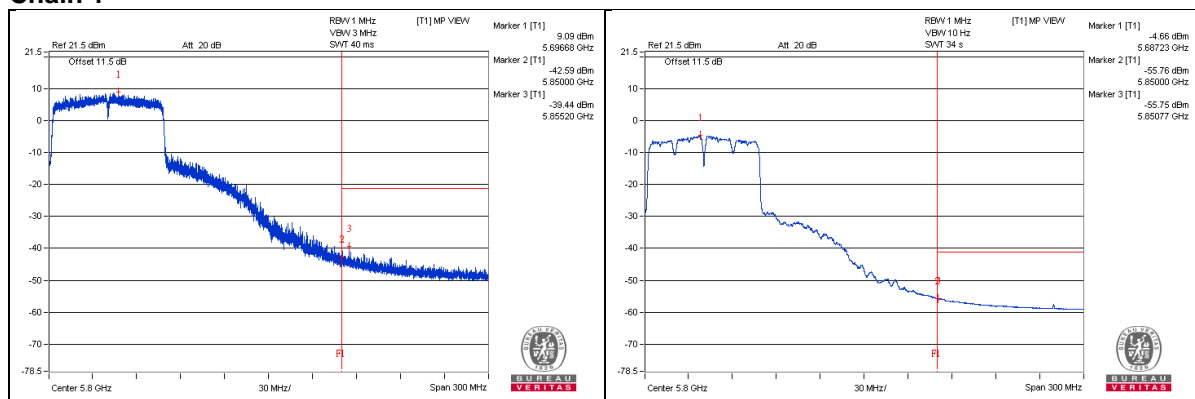
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0



## Chain 1





# 802.11ac (VHT80) – Channel 155

## Conducted spurious emission table

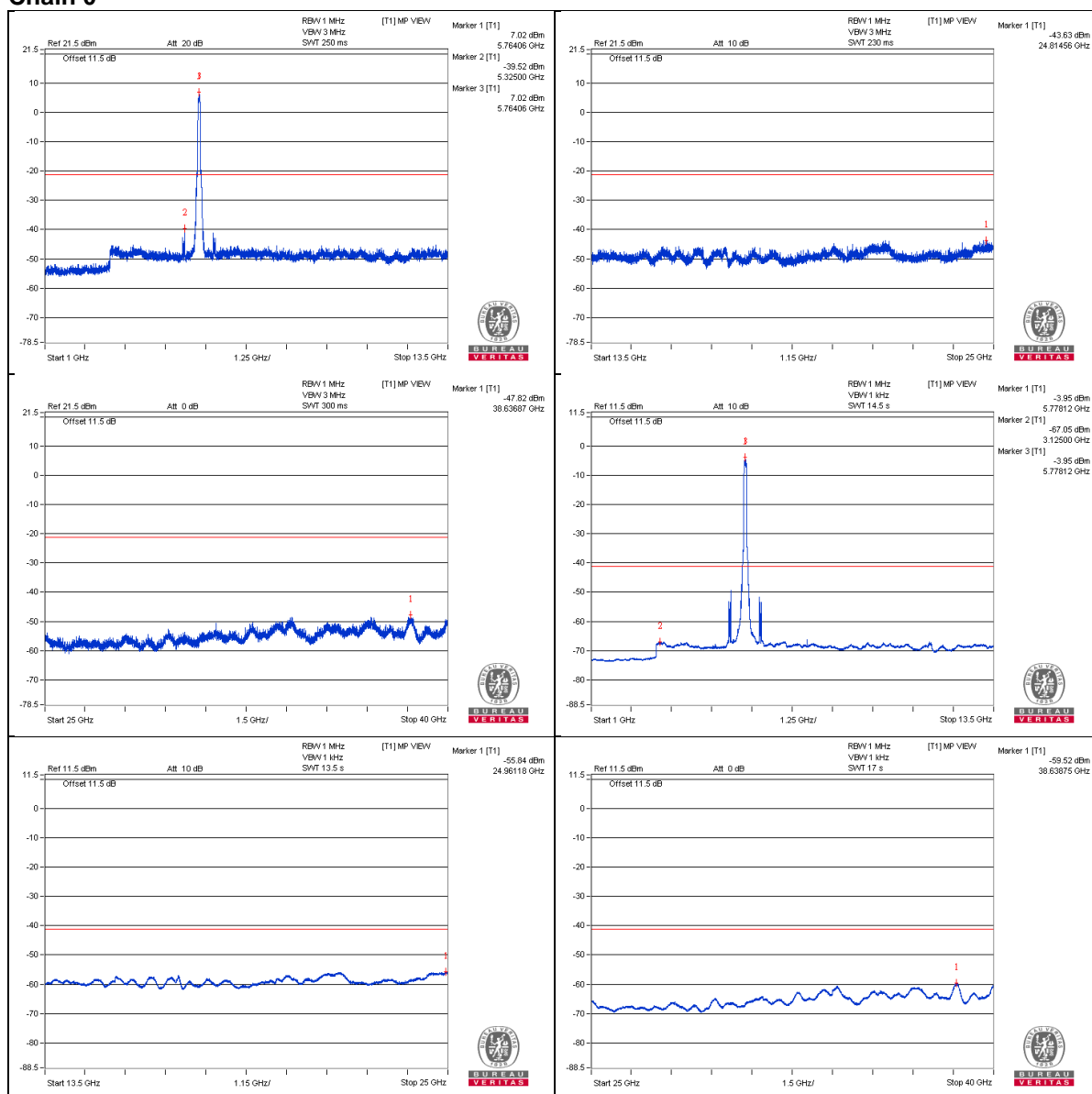
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	3859.37 PK	57.76	74	-16.24	-47.12	-47.51	6.8	-37.5
2	3850 AV	37.9	54	-16.1	-67.68	-66.72	6.8	-57.36
3	7703.12 PK	56.89	74	-17.11	-48.21	-48.15	6.8	-38.37
4	7700 AV	37.79	54	-16.21	-66.27	-68.6	6.8	-57.47
5	11543.75 PK	57.86	74	-16.14	-48.7	-46.11	6.8	-37.4
6	11559.37 AV	39.1	54	-14.9	-67.44	-64.87	6.8	-56.16
7	17330.93 PK	63.31	74	-10.69	-47.12	-39.43	6.8	-31.95
8	17318 AV	49.57	54	-4.43	-57.55	-54.11	6.8	-45.69

Note :

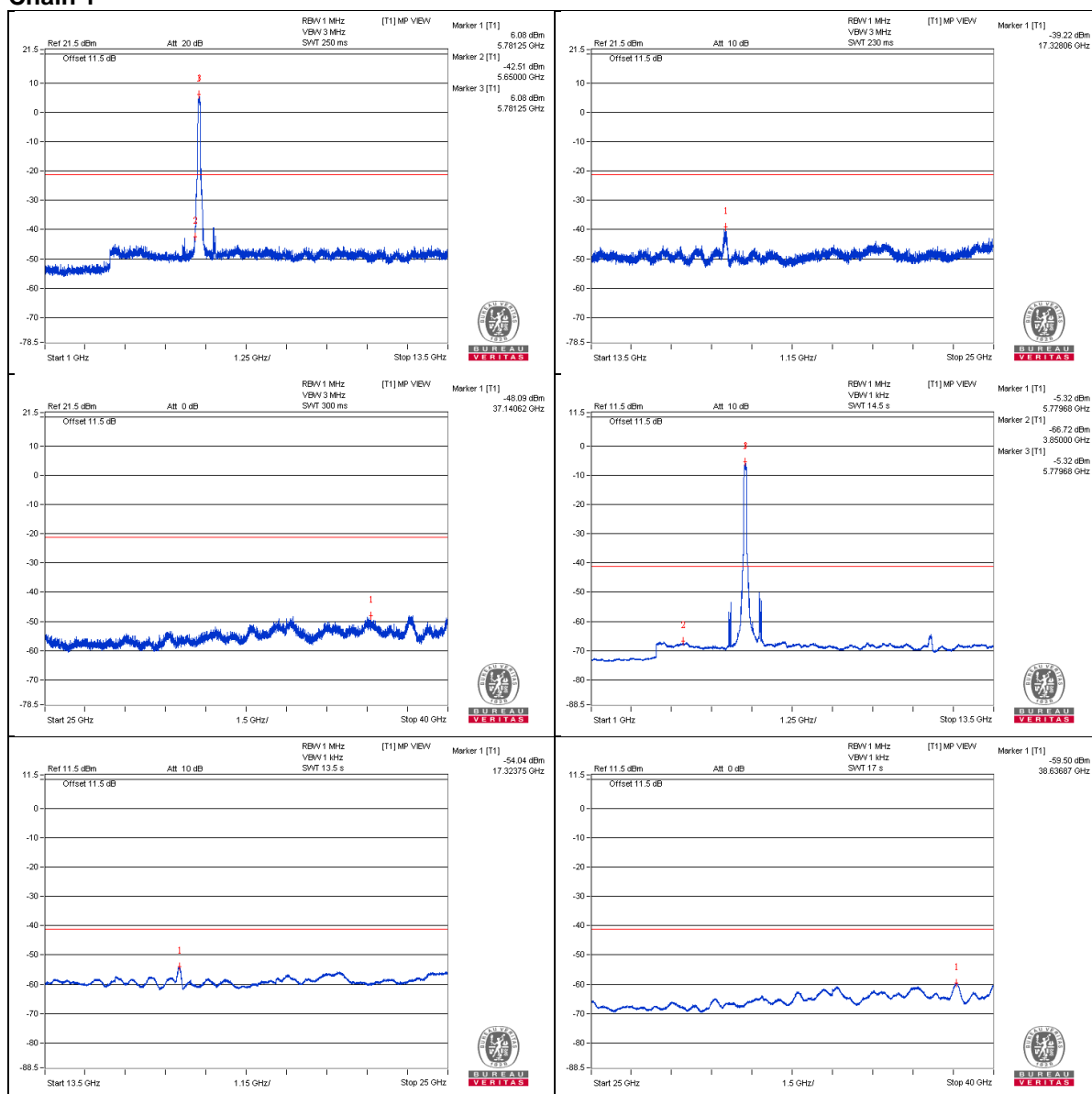
Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

## Chain 0

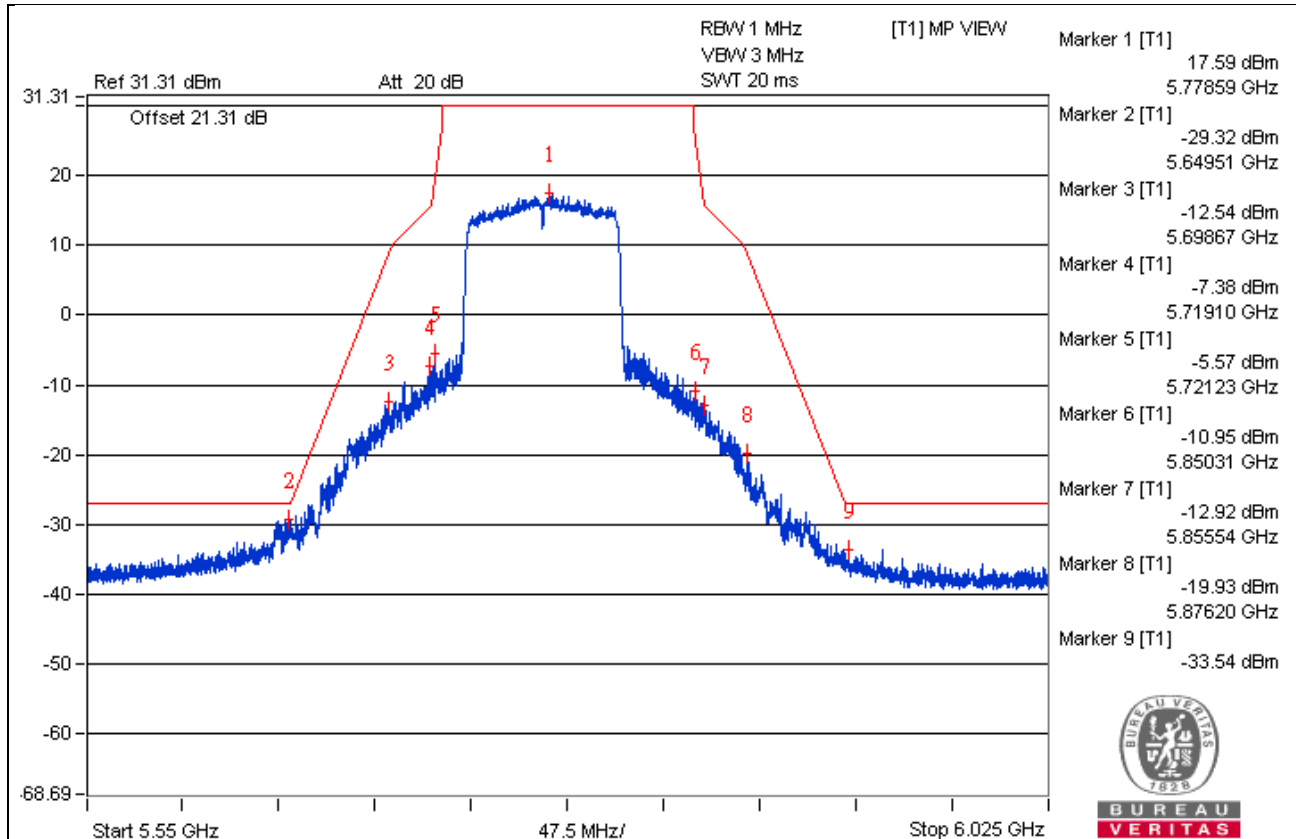


## Chain 1

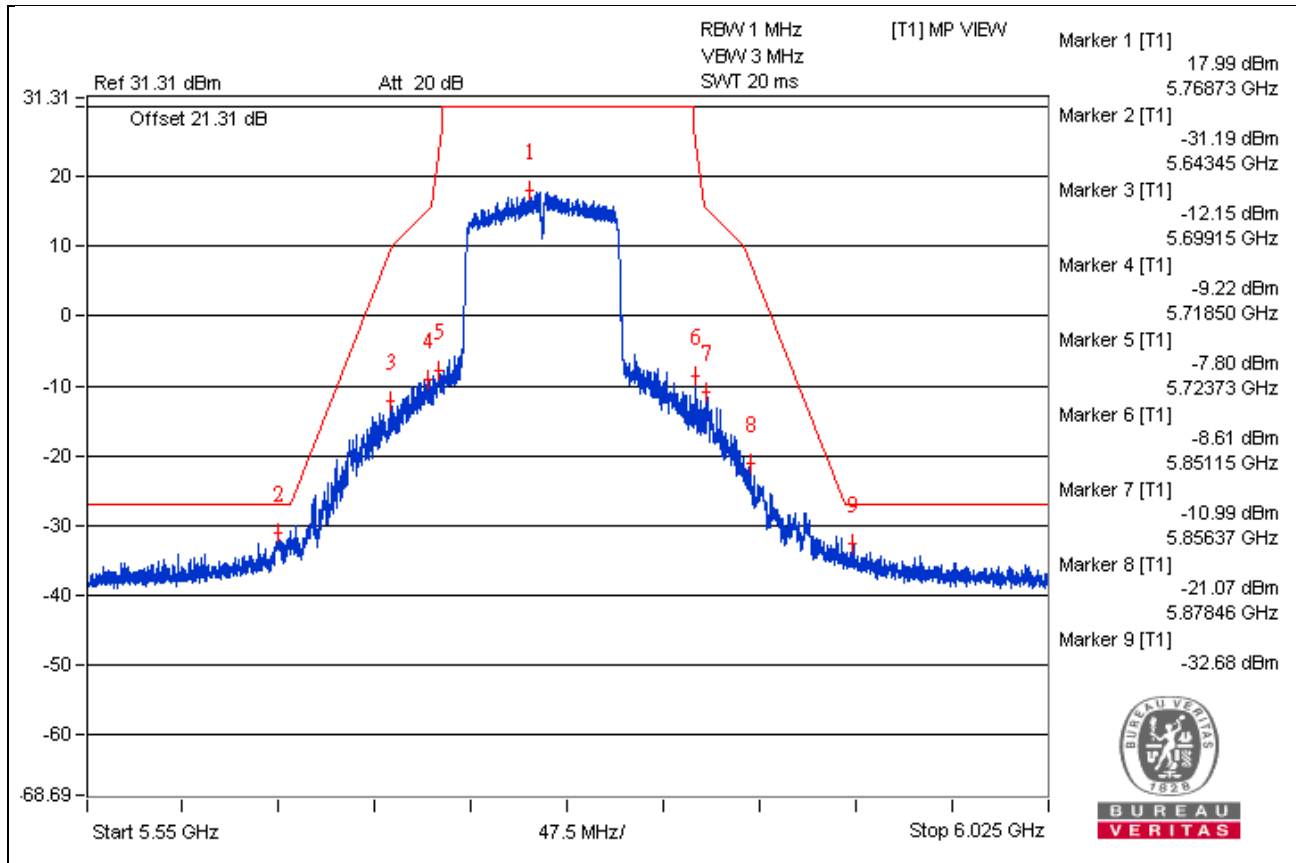


## Bandedge table

### Chain 0



### Chain 1



# Below 1GHz Data:

## 802.11ac (VHT20) – Channel 36

### Conducted spurious emission table

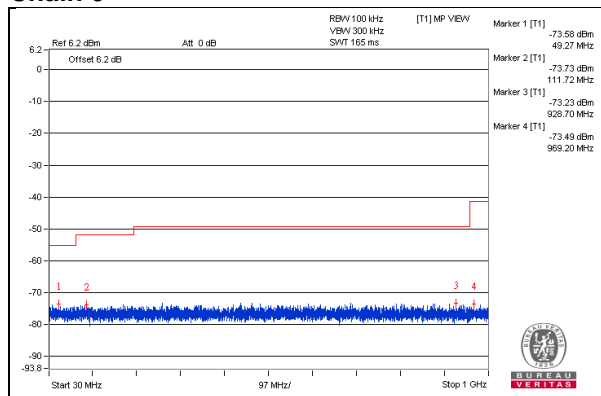
No.	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Raw Value (dBm)		Correction Factor (dB)	EIRP Level (dBm)
					Chain 0	Chain 1		
1	277.71	36.18	46	-9.82	-74.9	-66.46	6.8	-59.08
2	882.63	30.46	46	-15.54	-73.64	-75.85	6.8	-64.8

Note :

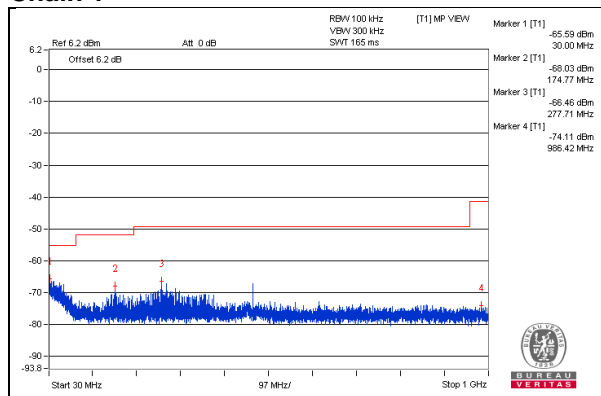
Emission Level (dBUV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

### Chain 0



### Chain 1



## 4.2 Conducted Emission Measurement

### 4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 4.2.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 24, 2016	Oct. 23, 2017
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 26, 2016	Oct. 25, 2017
Line-Impedance Stabilization Network (for Peripheral) R&S	ENV216	100072	June 13, 2016	June 12, 2017
50 ohms Terminator	N/A	EMC-02	Sep. 29, 2016	Sep. 28, 2017
RF Cable	5D-FB	COCCAB-001	Sep. 30, 2016	Sep. 29, 2017
10 dB PAD Mini-Circuits	HAT-10+	CONATT-004	June 20, 2016	June 19, 2017
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

**Note:**

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. 1.
- 3 Tested Date: May 19, 2017

#### 4.2.3 Test Procedure

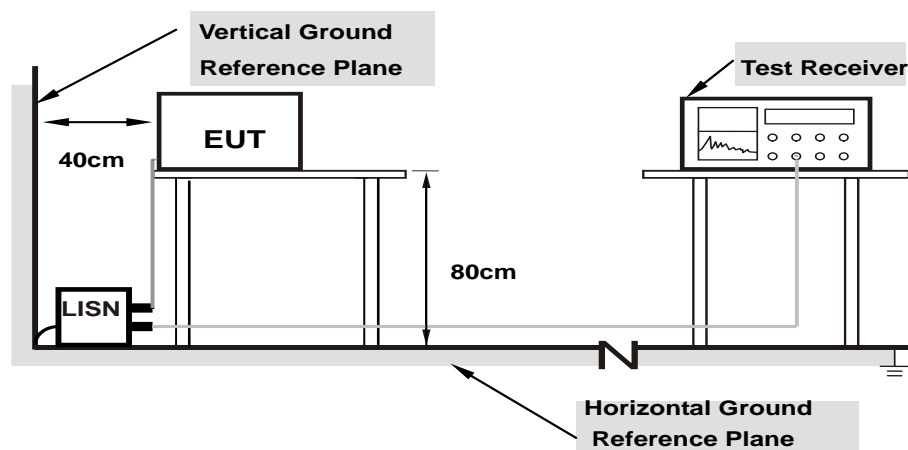
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

#### 4.2.4 Deviation from Test Standard

No deviation.

#### 4.2.5 Test Setup



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

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

#### 4.2.6 EUT Operating Condition

Same as 4.1.6.

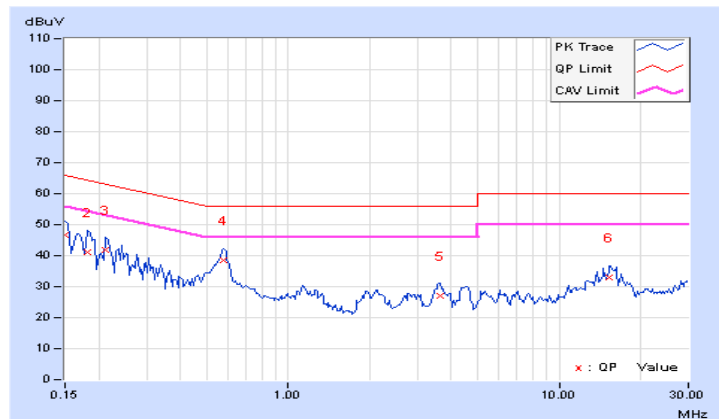
#### 4.2.7 Test Results

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

No	Freq. [MHz]	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.20	36.48	26.50	46.68	36.70	66.00	56.00	-19.32	-19.30
2	0.18125	10.20	31.08	17.19	41.28	27.39	64.43	54.43	-23.15	-27.04
3	0.21250	10.20	31.62	24.54	41.82	34.74	63.11	53.11	-21.29	-18.37
<b>4</b>	<b>0.57969</b>	<b>10.26</b>	<b>28.21</b>	<b>24.05</b>	<b>38.47</b>	<b>34.31</b>	<b>56.00</b>	<b>46.00</b>	<b>-17.53</b>	<b>-11.69</b>
5	3.61719	10.31	16.84	11.18	27.15	21.49	56.00	46.00	-28.85	-24.51
6	15.38281	11.33	21.66	16.50	32.99	27.83	60.00	50.00	-27.01	-22.17

#### REMARKS:

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



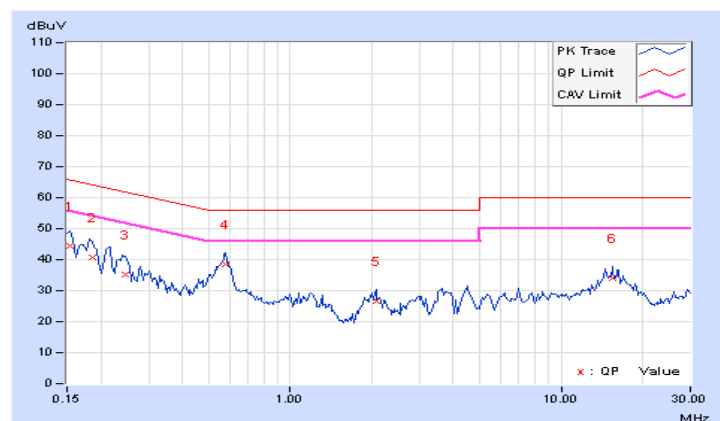


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
-------	-------------	-------------------	--------------------------------

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	0.15391	10.19	34.13	20.34	44.32	30.53	65.79	55.79	-21.47	-25.26
2	0.18516	10.18	30.39	18.75	40.57	28.93	64.25	54.25	-23.68	-25.32
3	0.24766	10.19	24.94	15.34	35.13	25.53	61.84	51.84	-26.71	-26.31
4	0.57969	10.25	28.45	23.61	38.70	33.86	56.00	46.00	-17.30	-12.14
5	2.08984	10.31	16.40	11.28	26.71	21.59	56.00	46.00	-29.29	-24.41
6	15.46484	11.12	23.02	17.76	34.14	28.88	60.00	50.00	-25.86	-21.12

#### REMARKS:

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



### 4.3 Transmit Power Measurement

#### 4.3.1 Limits of Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable 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  $\geq 40$  MHz for any  $N_{ANT}$ ;

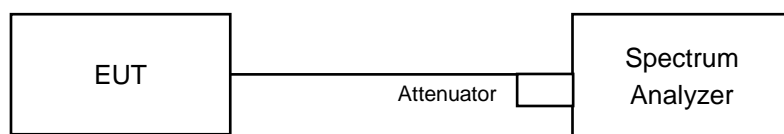
Array Gain =  $5 \log(N_{ANT}/N_{SS})$  dB or 3 dB, whichever is less for 20-MHz channel widths with  $N_{ANT} \geq 5$ .

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

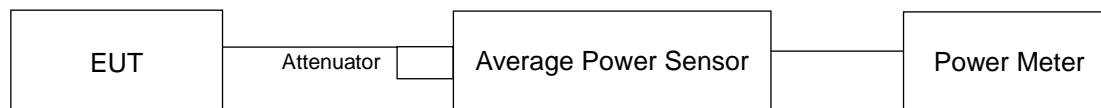
#### 4.3.2 Test Setup

##### FOR POWER OUTPUT MEASUREMENT

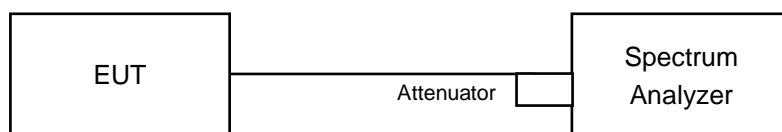
For channel straddling 5725MHz:



For other channels:



##### FOR 26dB OCCUPIED BANDWIDTH



#### 4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.3.4 Test Procedure

##### FOR POWER OUTPUT MEASUREMENT

**For channel straddling 5725MHz:**

##### 802.11a, 802.11ac (VHT20), 802.11ac (VHT40)

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  $\geq 98$  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.

##### 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).

##### For other channels:

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

##### FOR 26dB OCCUPIED BANDWIDTH

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

#### 4.3.5 Deviation from Test Standard

No deviation.

#### 4.3.6 EUT Operating Condition

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

#### 4.3.7 Test Result

##### 1TX Mode

##### 802.11a

##### Power Output:

Channel	Channel Frequency (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass/Fail
36	5180	79.983	19.03	23.20	Pass
40	5200	176.604	22.47	23.20	Pass
48	5240	198.609	22.98	23.20	Pass
52	5260	207.014	23.16	23.20	Pass
60	5300	205.116	23.12	23.20	Pass
64	5320	99.083	19.96	23.20	Pass
100	5500	96.828	19.86	23.20	Pass
116	5580	199.067	22.99	23.20	Pass
140	5700	66.374	18.22	23.20	Pass
*144 (UNII-2C Band)	5720	71.614	18.55	23.20	Pass
*144 (UNII-3 Band)	5720	15.56	11.92	29.20	Pass
149	5745	174.582	22.42	29.20	Pass
157	5785	195.884	22.92	29.20	Pass
165	5825	205.116	23.12	29.20	Pass

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

1. For UNII-1, UNII-2A, UNII-2C: Antenna gain = 6.8dBi > 6dBi, so the power limit shall be reduced to  $24-(6.8-6)=23.20\text{dBm}$ .
2. For UNII-3: Antenna gain = 6.8dBi > 6dBi, so the power limit shall be reduced to  $30-(6.8-6)=29.20\text{dBm}$ .

The Average Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
144	5720	87.174	19.4

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

## 26dB BANDWIDTH:

Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)
52	5260	48.39
60	5300	48.27
64	5320	30.93
100	5500	31.41
116	5580	42.17
140	5700	30.91
144 (UNII-2C Band)	5720	29.01

**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	48.39	27.84 > 24
60	5300	48.27	27.83 > 24
64	5320	30.93	25.9 > 24
100	5500	31.41	25.97 > 24
116	5580	42.17	27.25 > 24
140	5700	30.91	25.9 > 24
144 (UNII-2C Band)	5720	29.01	25.62 > 24

## 802.11ac (VHT20)

### Power Output:

Channel	Channel Frequency (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass/Fail
36	5180	90.782	19.58	23.20	Pass
40	5200	159.588	22.03	23.20	Pass
48	5240	198.153	22.97	23.20	Pass
52	5260	199.526	23.00	23.20	Pass
60	5300	174.582	22.42	23.20	Pass
64	5320	86.099	19.35	23.20	Pass
100	5500	91.201	19.60	23.20	Pass
116	5580	204.174	23.10	23.20	Pass
140	5700	52	17.16	23.20	Pass
*144 (UNII-2C Band)	5720	68.549	18.36	23.20	Pass
*144 (UNII-3 Band)	5720	16.866	12.27	29.20	Pass
149	5745	183.231	22.63	29.20	Pass
157	5785	201.837	23.05	29.20	Pass
165	5825	212.814	23.28	29.20	Pass

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

1. For UNII-1, UNII-2A, UNII-2C: Antenna gain = 6.8dBi > 6dBi, so the power limit shall be reduced to  $24-(6.8-6) = 23.20\text{dBm}$ .
2. For UNII-3: Antenna gain = 6.8dBi > 6dBi, so the power limit shall be reduced to  $30-(6.8-6) = 29.20\text{dBm}$ .

The Average Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
144	5720	85.415	19.32

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

### 26dB BANDWIDTH:

Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)
52	5260	50.12
60	5300	50.32
64	5320	35.09
100	5500	31.73
116	5580	51.03
140	5700	26.36
144 (UNII-2C Band)	5720	33.11

**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	50.12	28 > 24
60	5300	50.32	28.01 > 24
64	5320	35.09	26.45 > 24
100	5500	31.73	26.01 > 24
116	5580	51.03	28.07 > 24
140	5700	26.36	25.2 > 24
144 (UNII-2C Band)	5720	33.11	26.19 > 24

## 802.11ac (VHT40)

### Power Output:

Channel	Channel Frequency (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass/Fail
38	5190	44.875	16.52	23.20	Pass
46	5230	143.219	21.56	23.20	Pass
54	5270	146.218	21.65	23.20	Pass
62	5310	43.451	16.38	23.20	Pass
102	5510	33.963	15.31	23.20	Pass
110	5550	174.181	22.41	23.20	Pass
134	5670	94.624	19.76	23.20	Pass
*142 (UNII-2C Band)	5710	71.945	18.57	23.20	Pass
*142 (UNII-3 Band)	5710	6.653	8.23	29.20	Pass
151	5755	124.165	20.94	29.20	Pass
159	5795	162.181	22.10	29.20	Pass

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

1. For UNII-1, UNII-2A, UNII-2C: Antenna gain = 6.8dBi > 6dBi, so the power limit shall be reduced to  $24-(6.8-6)=23.20\text{dBm}$ .
2. For UNII-3: Antenna gain = 6.8dBi > 6dBi, so the power limit shall be reduced to  $30-(6.8-6)=29.20\text{dBm}$ .

The Average Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
142	5710	78.598	18.95

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



### 26dB BANDWIDTH:

Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)
54	5270	95.32
62	5310	42.92
102	5510	41.87
110	5550	100.93
134	5670	84.75
142 (UNII-2C Band)	5710	64.87

**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	95.32	30.79 > 24
62	5310	42.92	27.32 > 24
102	5510	41.87	27.21 > 24
110	5550	100.93	31.04 > 24
134	5670	84.75	30.28 > 24
142 (UNII-2C Band)	5710	64.87	29.12 > 24

## 802.11ac (VHT80)

### Power Output:

Channel	Channel Frequency (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass/Fail
42	5210	35.645	15.52	23.20	Pass
58	5290	36.308	15.60	23.20	Pass
106	5530	21.979	13.42	23.20	Pass
122	5610	92.897	19.68	23.20	Pass
*138 (UNII-2C Band)	5690	44.748	16.51	23.20	Pass
*138 (UNII-3 Band)	5690	1.425	1.54	29.20	Pass
155	5775	67.92	18.32	29.20	Pass

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

1. For UNII-1, UNII-2A, UNII-2C: Antenna gain = 6.8dBi > 6dBi, so the power limit shall be reduced to  $24-(6.8-6) = 23.20\text{dBm}$ .
2. For UNII-3: Antenna gain = 6.8dBi > 6dBi, so the power limit shall be reduced to  $30-(6.8-6) = 29.20\text{dBm}$ .

The Average Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
138	5690	46.173	16.64

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

### 26dB BANDWIDTH:

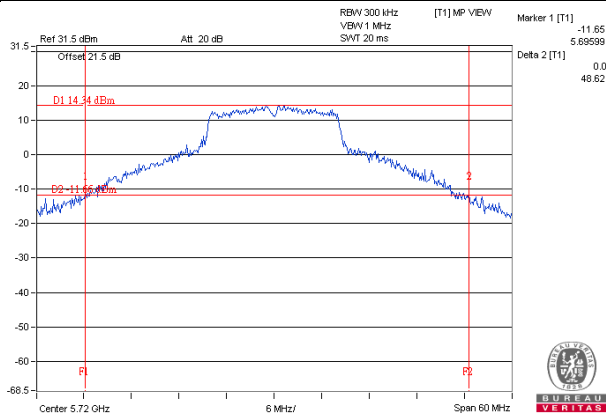
Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)
58	5290	81.89
106	5530	81.29
122	5610	164.24
138 (UNII-2C Band)	5690	123.93

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

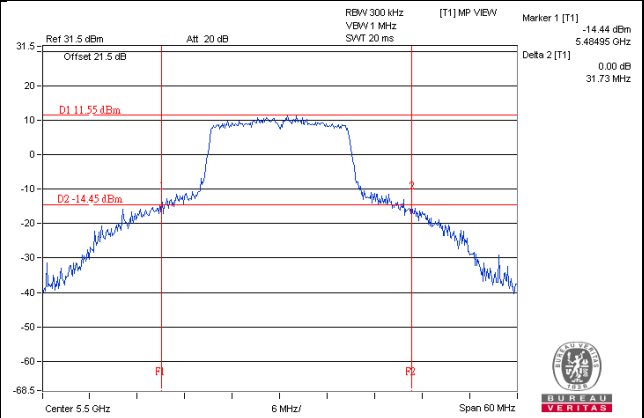
Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	81.89	30.13 > 24
106	5530	81.29	30.1 > 24
122	5610	164.24	33.15 > 24
138 (UNII-2C Band)	5690	123.93	31.93 > 24

## Spectrum Plot of Worst Value

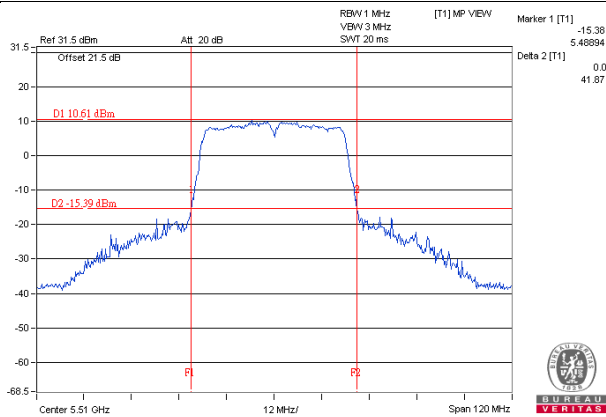
### 802.11a: CH144 (UNII-2C)



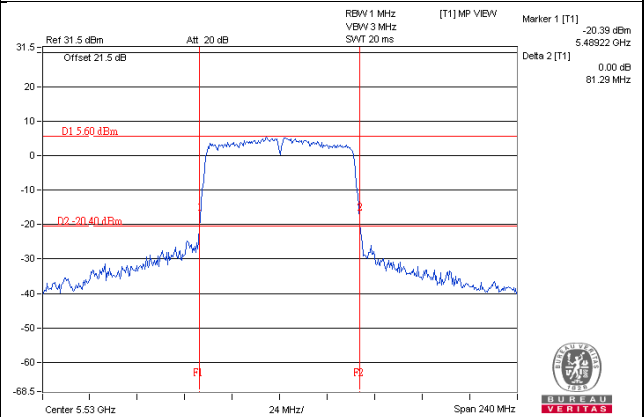
### 802.11ac (VHT20): CH100



### 802.11ac (VHT40): CH102



### 802.11ac (VHT80): CH106



## 2TX Mode

### 802.11ac (VHT20)

### POWER OUTPUT

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	17.87	17.94	123.465	20.92	23.20	Pass
40	5200	19.91	20.01	198.18	22.97	23.20	Pass
48	5240	19.92	19.96	197.258	22.95	23.20	Pass
52	5260	19.06	19.95	179.393	22.54	23.20	Pass
60	5300	19.76	20.23	200.063	23.01	23.20	Pass
64	5320	17.36	16.67	100.902	20.04	23.20	Pass
100	5500	17.83	17.23	113.519	20.55	23.20	Pass
116	5580	20.09	20.11	204.659	23.11	23.20	Pass
140	5700	14.99	15.00	63.173	18.01	23.20	Pass
*144 (UNII-2C Band)	5720	15.71	15.13	69.823	18.44	23.20	Pass
*144 (UNII-3 Band)	5720	9.43	8.73	16.234	12.10	29.20	Pass
149	5745	22.35	23.02	372.238	25.71	29.20	Pass
157	5785	22.93	23.01	396.322	25.98	29.20	Pass
165	5825	23.22	23.37	427.164	26.31	29.20	Pass

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

1. For UNII-1, UNII-2A, UNII-2C: Antenna gain = 6.8dBi > 6dBi, so the power limit shall be reduced to  $24-(6.8-6)=23.20\text{dBm}$ .
2. For UNII-3: Antenna gain = 6.8dBi > 6dBi, so the power limit shall be reduced to  $30-(6.8-6)=29.20\text{dBm}$ .

The Average Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
144	5720	86.057	19.35

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	39.68	34.63
60	5300	40.86	37.45
64	5320	28.96	24.06
100	5500	28.34	28.07
116	5580	37.19	35.81
140	5700	20.50	25.37
144 (UNII-2C Band)	5720	23.90	23.31

**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	Frequency (MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	34.63	26.39 > 24
60	5300	37.45	26.73 > 24
64	5320	24.06	24.81 > 24
100	5500	28.07	25.48 > 24
116	5580	35.81	26.54 > 24
140	5700	20.50	24.11 > 24
144 (UNII-2C Band)	5720	23.31	24.67 > 24

## 802.11ac (VHT40)

### POWER OUTPUT

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	12.34	11.86	32.486	15.12	23.20	Pass
46	5230	19.66	20.10	194.799	22.90	23.20	Pass
54	5270	20.11	19.91	200.514	23.02	23.20	Pass
62	5310	13.53	13.34	44.119	16.45	23.20	Pass
102	5510	13.05	12.00	36.033	15.57	23.20	Pass
110	5550	19.89	20.05	198.657	22.98	23.20	Pass
134	5670	17.98	17.90	124.466	20.95	23.20	Pass
*142 (UNII-2C Band)	5710	16.23	16.70	88.75	19.48	23.20	Pass
*142 (UNII-3 Band)	5710	5.73	6.07	7.787	8.91	29.20	Pass
151	5755	20.58	20.66	230.701	23.63	29.20	Pass
159	5795	21.89	21.92	310.122	24.92	29.20	Pass

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

1. For UNII-1, UNII-2A, UNII-2C: Antenna gain = 6.8dBi > 6dBi, so the power limit shall be reduced to  $24-(6.8-6)=23.20\text{dBm}$ .
2. For UNII-3: Antenna gain = 6.8dBi > 6dBi, so the power limit shall be reduced to  $30-(6.8-6)=29.20\text{dBm}$ .

The Average Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
142	5710	96.537	19.85

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	88.14	91.61
62	5310	42.06	41.99
102	5510	41.75	41.72
118	5590	86.48	80.06
134	5670	75.89	78.87
142 (UNII-2C Band)	5710	61.24	62.71

**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	Frequency (MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	88.14	30.45 > 24
62	5310	41.99	27.23 > 24
102	5510	41.72	27.2 > 24
110	5550	80.06	30.03 > 24
134	5670	75.89	29.8 > 24
142 (UNII-2C Band)	5710	61.24	28.87 > 24



## 802.11ac (VHT80)

### POWER OUTPUT

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	11.05	11.26	26.101	14.17	23.20	Pass
58	5290	12.52	11.90	33.353	15.23	23.20	Pass
106	5530	11.88	11.12	28.359	14.53	23.20	Pass
122	5610	17.69	17.18	110.989	20.45	23.20	Pass
*138 (UNII-2C Band)	5690	15.84	16.34	83.855	19.24	23.20	Pass
*138 (UNII-3 Band)	5690	1.40	1.39	2.839	4.53	29.20	Pass
155	5775	17.78	18.19	125.896	21.00	29.20	Pass

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

1. For UNII-1, UNII-2A, UNII-2C: Antenna gain = 6.8dBi > 6dBi, so the power limit shall be reduced to  $24-(6.8-6)=23.20\text{dBm}$ .
2. For UNII-3: Antenna gain = 6.8dBi > 6dBi, so the power limit shall be reduced to  $30-(6.8-6)=29.20\text{dBm}$ .

The Average Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
138	5690	86.694	19.38

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

## 26dB OCCUPIED BANDWIDTH

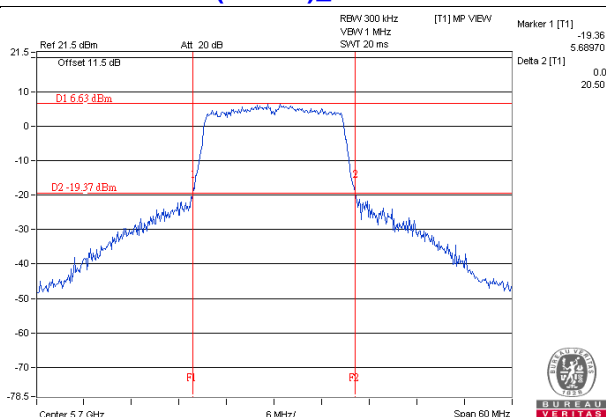
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	81.25	81.22
106	5530	81.14	80.84
122	5610	143.18	98.13
138 (UNII-2C Band)	5690	114.83	123.93

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

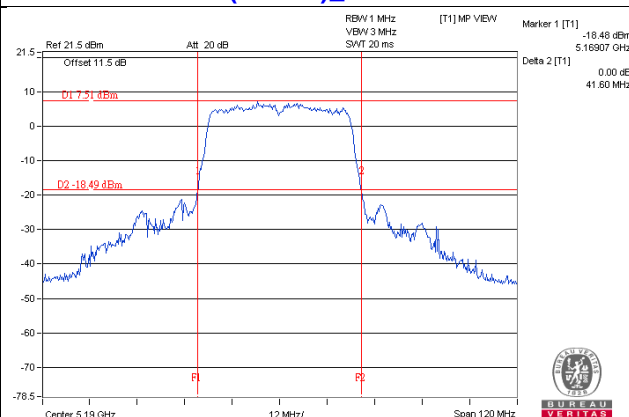
Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel	Frequency (MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	81.22	30.09 > 24
106	5530	80.84	30.07 > 24
122	5610	98.13	30.91 > 24
138 (UNII-2C Band)	5690	114.83	31.6 > 24

# Spectrum Plot of Worst Value

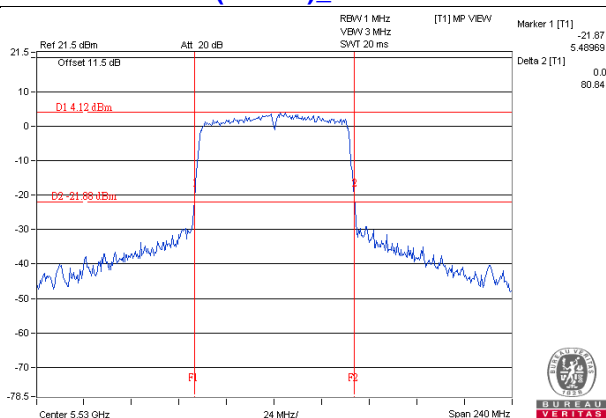
## 802.11ac (VHT20)\_Chain 0 / CH140



## 802.11ac (VHT40)\_Chain 1 / CH38

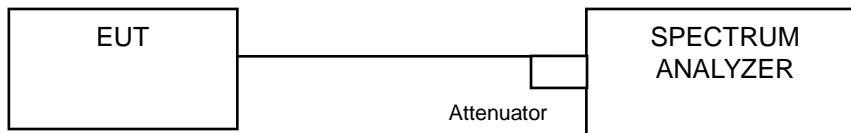


## 802.11ac (VHT80)\_Chain 1 / CH106



## 4.4 Occupied Bandwidth Measurement

### 4.4.1 Test Setup



### 4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.4.3 Test Procedure

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

#### 4.4.4 Test Results

##### 1TX Mode

##### 802.11a

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	17.04
40	5200	22.92
48	5240	19.32
52	5260	30.48
60	5300	30.72
64	5320	17.16
100	5500	17.04
116	5580	24.12
140	5700	17.04
144 (UNII-2C Band)	5720	20.36
144 (UNII-3 Band)	5720	10.24
149	5745	30.96
157	5785	32.28
165	5825	32.04

##### 802.11ac (VHT20)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.00
40	5200	24.72
48	5240	19.44
52	5260	32.64
60	5300	32.64
64	5320	17.76
100	5500	18.00
116	5580	32.52
140	5700	17.76
144 (UNII-2C Band)	5720	20.96
144 (UNII-3 Band)	5720	10.72
149	5745	34.20
157	5785	33.84
165	5825	33.84

#### 802.11ac (VHT40)

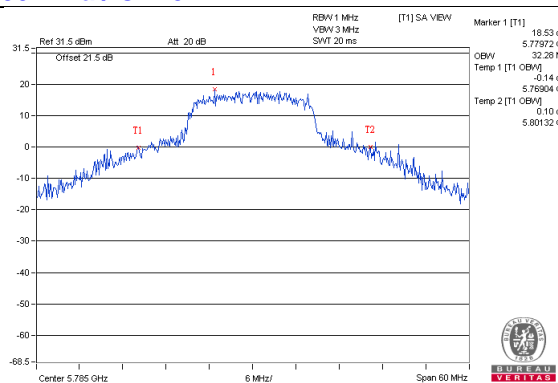
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	36.48
46	5230	38.88
54	5270	51.84
62	5310	36.24
102	5510	36.48
110	5550	62.16
134	5670	38.40
142 (UNII-2C Band)	5710	46.00
142 (UNII-3 Band)	5710	16.60
151	5755	54.00
159	5795	68.64

#### 802.11ac (VHT80)

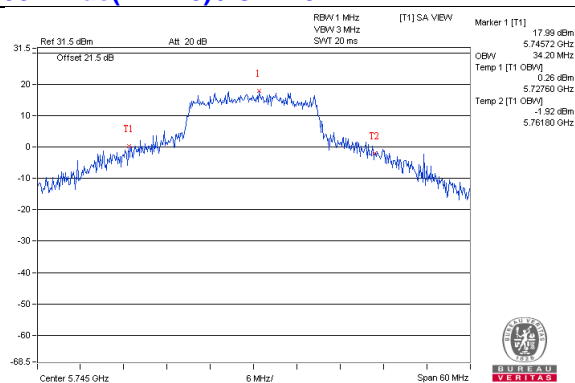
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	74.88
58	5290	74.88
106	5530	74.88
122	5610	76.80
138 (UNII-2C Band)	5690	73.88
138 (UNII-3 Band)	5690	2.92
155	5775	75.84

## Spectrum Plot of Worst Value

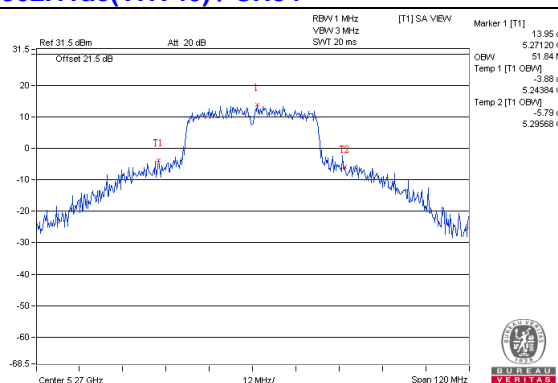
### 802.11a / CH157



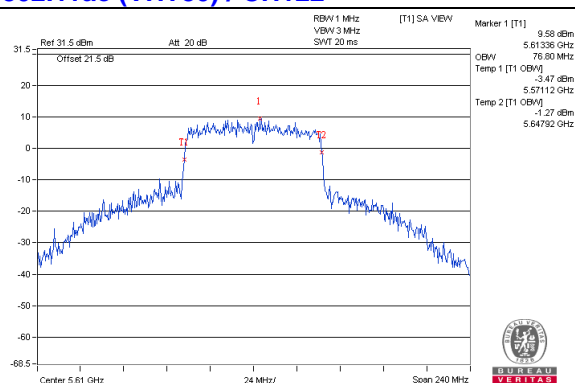
### 802.11ac(VHT20) / CH149



### 802.11ac(VHT40) / CH54

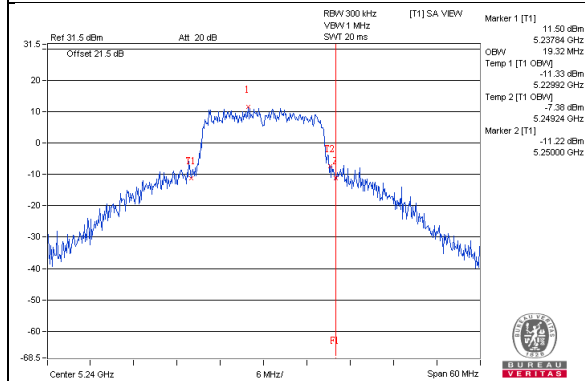


### 802.11ac (VHT80) / CH122

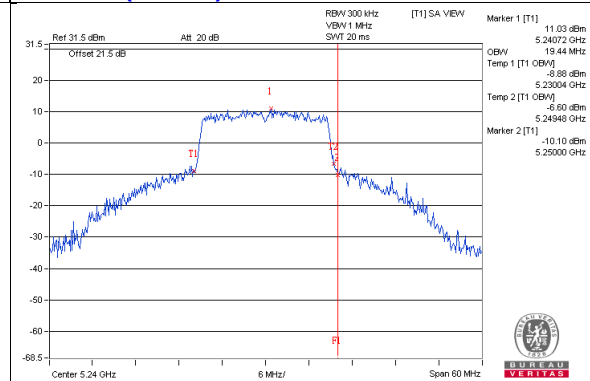


## Spectrum Plot for near by DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)

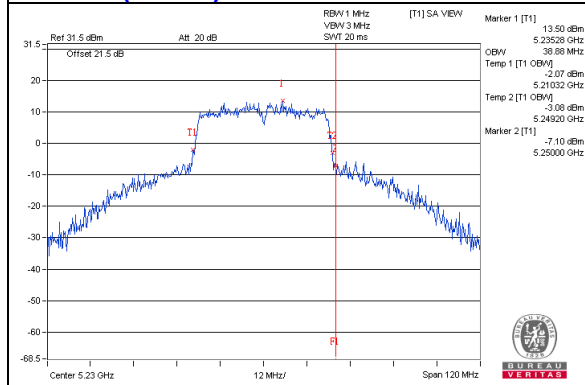
### 802.11a / CH48



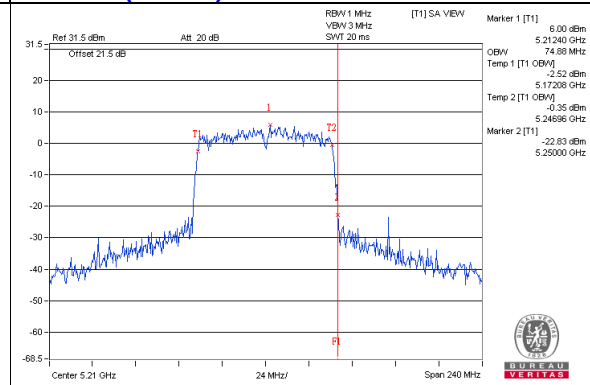
### 802.11ac(VHT20) / CH48



### 802.11ac(VHT40) / CH46



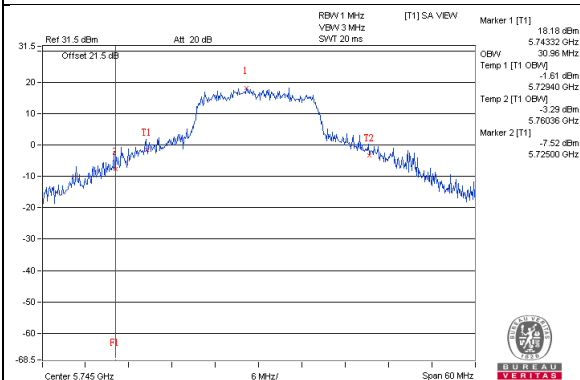
### 802.11ac(VHT80) / CH42



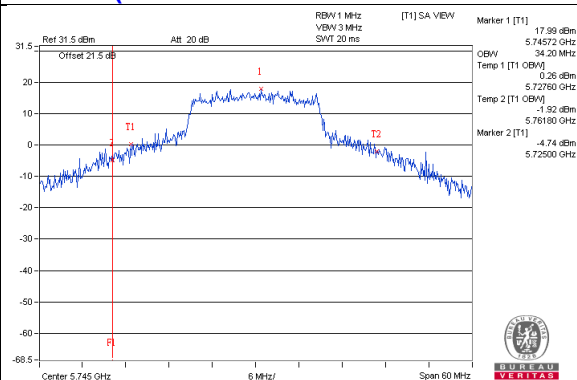


## Spectrum Plot for near by DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)

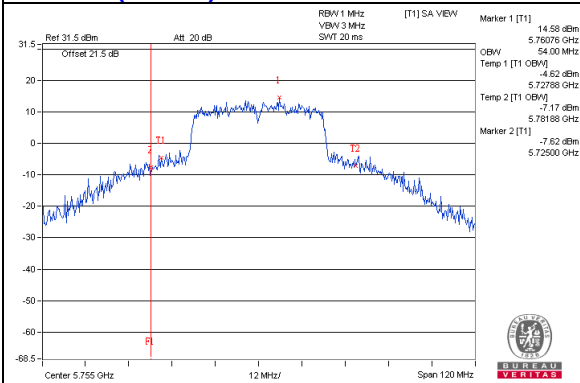
### 802.11a / CH149



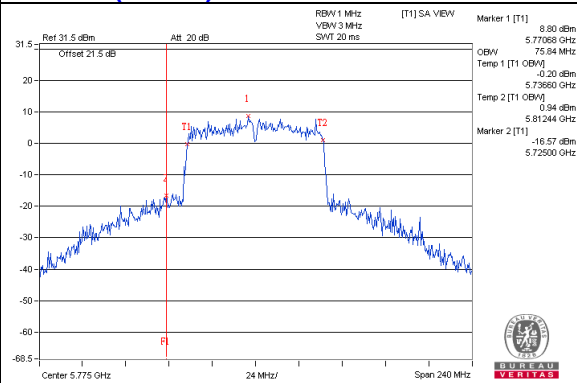
### 802.11ac(VHT20) / CH149



### 802.11ac(VHT40) / CH151



### 802.11ac(VHT80) / CH155



## 2TX Mode

### 802.11ac (VHT20)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		CHAIN 0	CHAIN 1
36	5180	18.00	18.12
40	5200	26.64	23.88
48	5240	20.40	18.84
52	5260	21.12	18.72
60	5300	20.16	19.08
64	5320	17.76	17.76
100	5500	17.88	17.88
116	5580	18.12	20.04
140	5700	17.64	17.76
144 (UNII-2C Band)	5720	14.36	15.08
144 (UNII-3 Band)	5720	4.24	4.60
149	5745	33.72	32.52
157	5785	34.32	33.12
165	5825	34.56	33.84

### 802.11ac (VHT40)

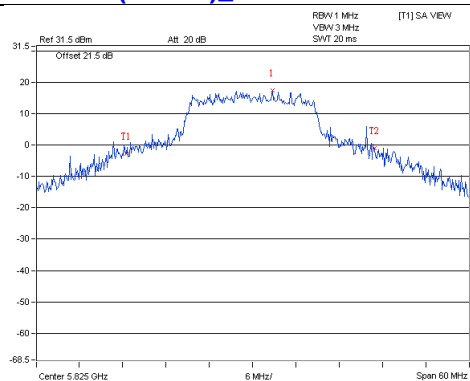
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		CHAIN 0	CHAIN 1
38	5190	36.24	36.24
46	5230	37.20	41.52
54	5270	37.92	45.36
62	5310	36.48	36.48
102	5510	36.48	36.72
110	5550	36.96	37.20
134	5670	36.72	37.20
142 (UNII-2C Band)	5710	34.00	42.00
142 (UNII-3 Band)	5710	4.20	10.00
151	5755	51.60	47.76
159	5795	56.88	58.32

### 802.11ac (VHT80)

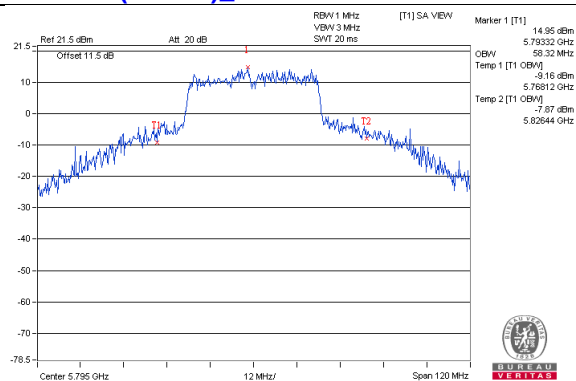
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		CHAIN 0	CHAIN 1
42	5210	75.36	75.36
58	5290	75.36	75.36
106	5530	75.36	74.88
122	5610	75.84	75.36
138 (UNII-2C Band)	5690	73.88	73.88
138 (UNII-3 Band)	5690	3.40	2.44
155	5775	75.84	76.32

## Spectrum Plot of Worst Value

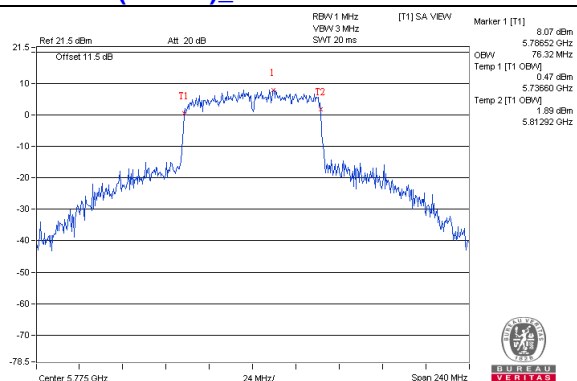
### 802.11ac (VHT20)\_Chain0 / CH165



### 802.11ac (VHT40)\_Chain1 / CH159

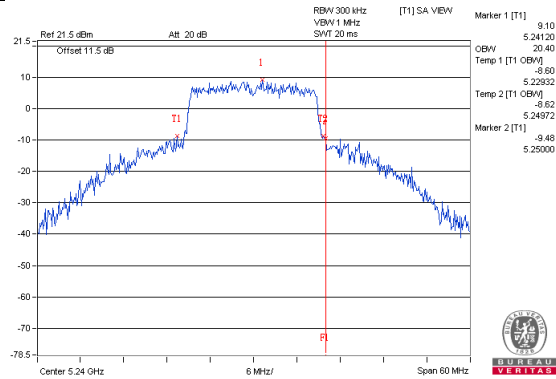


### 802.11ac (VHT80)\_Chain1 / CH155

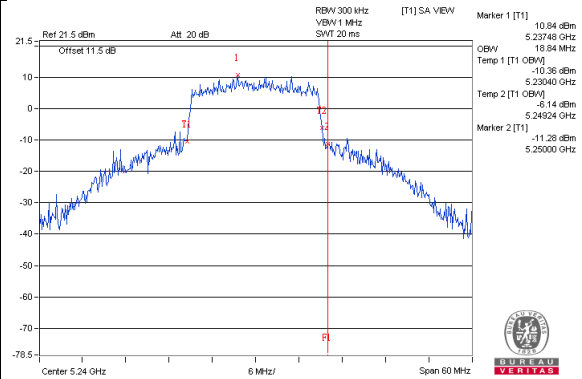


## Spectrum Plot for near by DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)

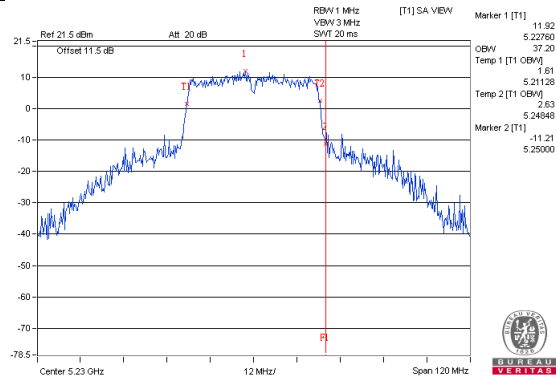
**802.11ac(VHT20)\_Chain0 / CH48**



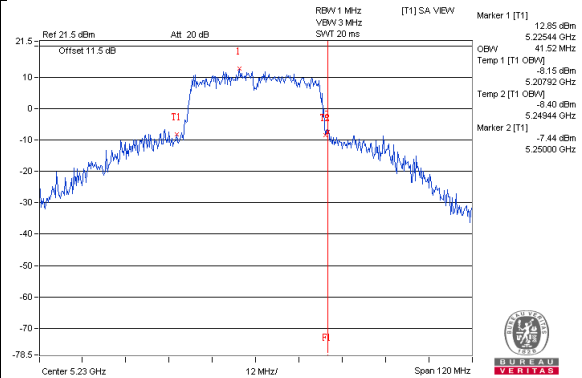
**802.11ac(VHT20)\_Chain1 / CH48**



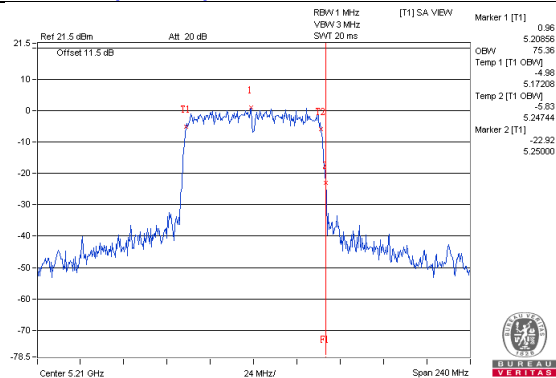
**802.11ac(VHT40)\_Chain0 / CH46**



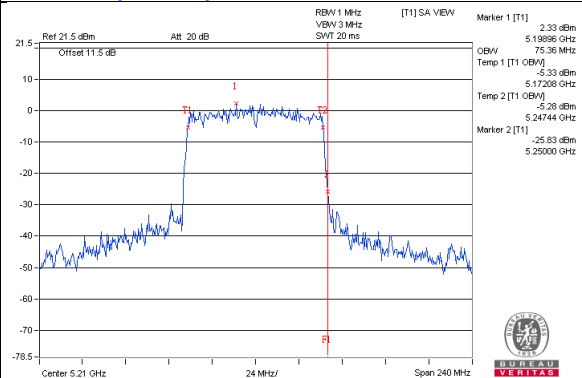
**802.11ac(VHT40)\_Chain1 / CH46**



**802.11ac(VHT80)\_Chain0 / CH42**

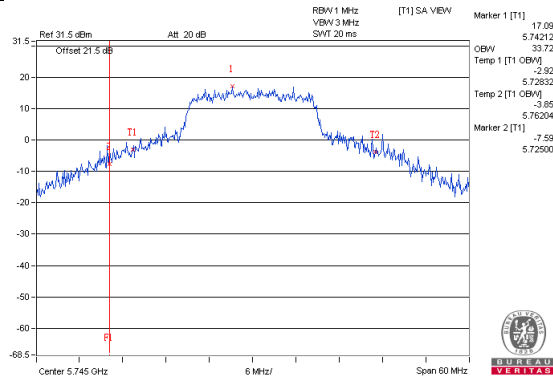


**802.11ac(VHT80)\_Chain1 / CH42**

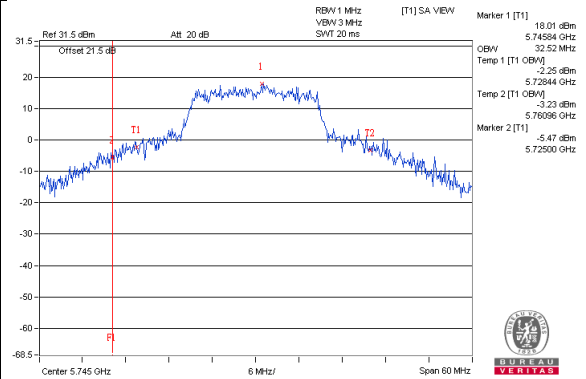


## Spectrum Plot for near by DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)

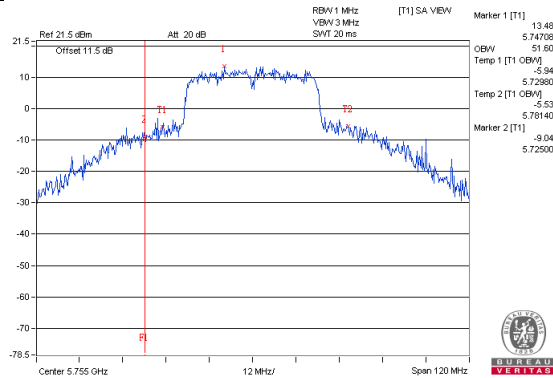
**802.11ac(VHT20)\_Chain0 / CH149**



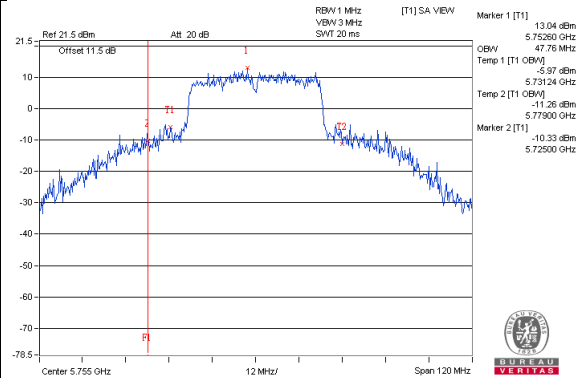
**802.11ac(VHT20)\_Chain1 / CH149**



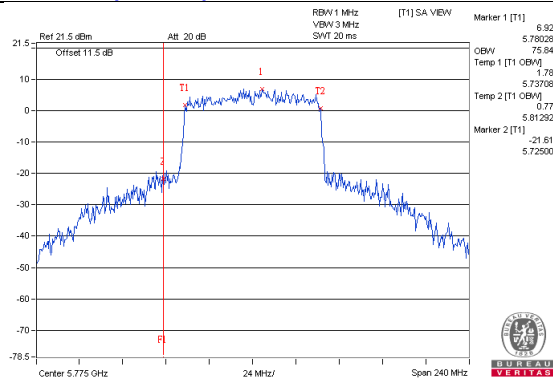
**802.11ac(VHT40)\_Chain0 / CH151**



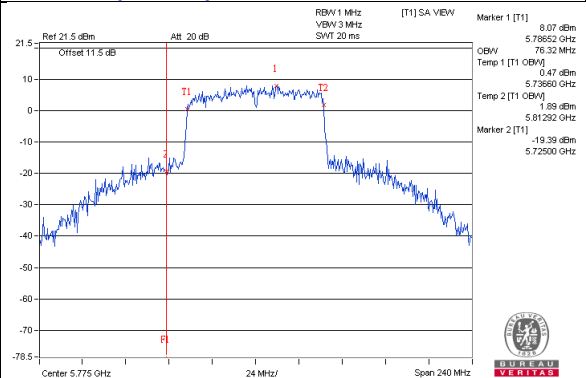
**802.11ac(VHT40)\_Chain1 / CH151**



**802.11ac(VHT80)\_Chain0 / CH155**



**802.11ac(VHT80)\_Chain1 / CH155**

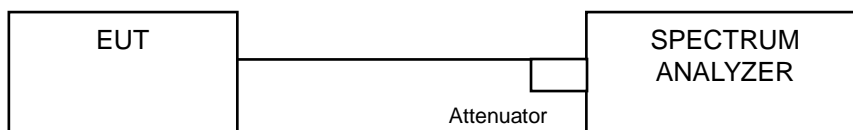


## 4.5 Peak Power Spectral Density Measurement

### 4.5.1 Limits of Peak Power Spectral Density Measurement

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

### 4.5.2 Test Setup



### 4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.5.4 Test Procedure

##### **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

##### **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

##### **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  $10 \log (1/\text{duty cycle})$

#### 4.5.5 Deviation from Test Standard

No deviation.

#### 4.5.6 EUT Operating Condition

Same as Item 4.3.6.



#### 4.5.7 Test Results

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

**1TX Mode**

**802.11a**

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	MAX. Limit (dBm/MHz)	Pass / Fail
36	5180	6.00	10.20	Pass
40	5200	8.15	10.20	Pass
48	5240	7.73	10.20	Pass
52	5260	9.23	10.20	Pass
60	5300	9.56	10.20	Pass
64	5320	6.19	10.20	Pass
100	5500	6.93	10.20	Pass
116	5580	8.62	10.20	Pass
140	5700	5.32	10.20	Pass
144 (UNII-2C Band)	5720	8.99	10.20	Pass

**Note:** 1. Antenna gain = 6.8dBi > 6dBi, so the power density limit shall be reduced to 11-(6.8-6)  
=10.20dBm.

**802.11ac (VHT20)**

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	MAX. Limit (dBm/MHz)	Pass / Fail
36	5180	5.68	10.20	Pass
40	5200	7.91	10.20	Pass
48	5240	7.54	10.20	Pass
52	5260	8.86	10.20	Pass
60	5300	9.14	10.20	Pass
64	5320	5.71	10.20	Pass
100	5500	6.07	10.20	Pass
116	5580	9.34	10.20	Pass
140	5700	3.83	10.20	Pass
144 (UNII-2C Band)	5720	8.54	10.20	Pass

**Note:** 1. Antenna gain = 6.8dBi > 6dBi, so the power density limit shall be reduced to 11-(6.8-6)  
=10.20dBm.

### 802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	MAX. Limit (dBm/MHz)	Pass / Fail
38	5190	0.18	10.20	Pass
46	5230	3.86	10.20	Pass
54	5270	4.46	10.20	Pass
62	5310	-0.15	10.20	Pass
102	5510	-0.66	10.20	Pass
110	5550	6.26	10.20	Pass
134	5670	2.73	10.20	Pass
142 (UNII-2C Band)	5710	5.21	10.20	Pass

**Note:** 1. Antenna gain = 6.8dBi > 6dBi, so the power density limit shall be reduced to 11-(6.8-6) = 10.20dBm.

### 802.11ac (VHT80)

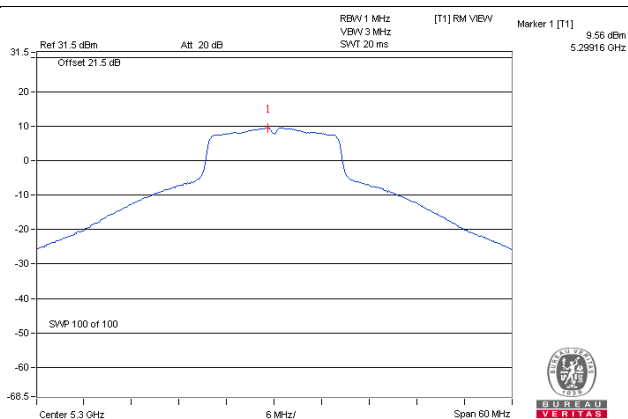
Chan.	Chan. Freq. (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD With Duty Factor (dBm/MHz)	MAX. Limit (dBm/MHz)	Pass / Fail
42	5210	-3.62	0.13	-3.49	10.20	Pass
58	5290	-4.15	0.13	-4.02	10.20	Pass
106	5530	-5.39	0.13	-5.26	10.20	Pass
122	5610	-0.19	0.13	-0.06	10.20	Pass
138 (UNII-2C Band)	5690	-0.14	0.13	-0.01	10.20	Pass

**Note:** 1. Antenna gain = 6.8dBi > 6dBi, so the power density limit shall be reduced to 11-(6.8-6) = 10.20dBm.

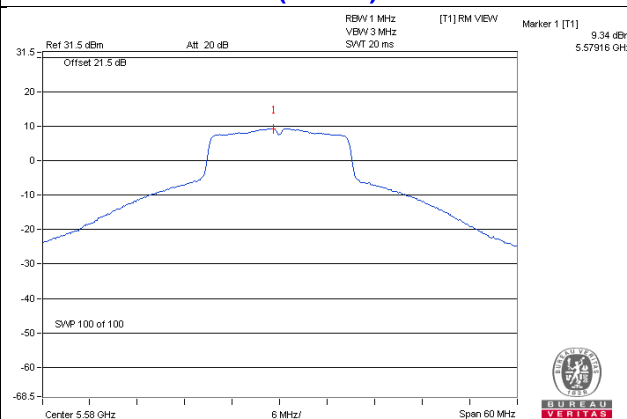
2. Refer to section 3.3 for duty cycle spectrum plot.

## Spectrum Plot of Worst Value

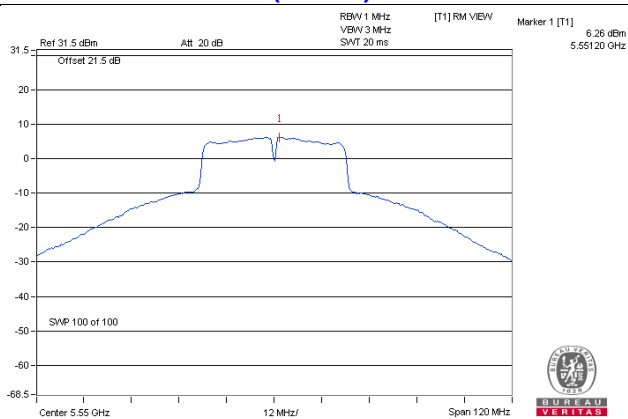
**802.11a / CH60**



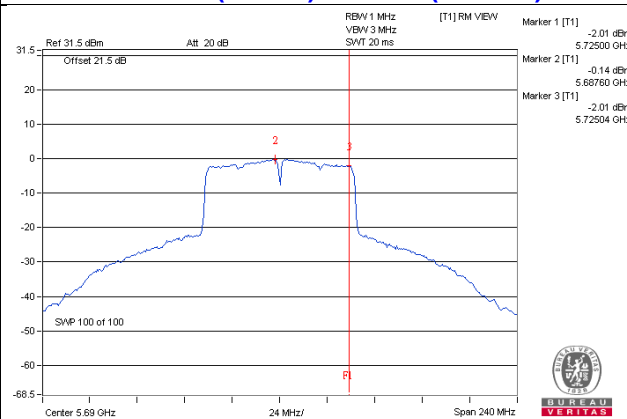
**802.11ac (VHT20) / CH116**



**802.11ac (VHT40) / CH110**



**802.11ac (VHT80) / CH138 (UNII-2C)**



## 2TX Mode

### 802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total Power Density (dBm/MHz)	MAX. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	3.71	4.51	7.14	10.20	Pass
40	5200	6.42	6.45	9.45	10.20	Pass
48	5240	5.44	5.64	8.55	10.20	Pass
52	5260	5.30	5.85	8.59	10.20	Pass
60	5300	5.30	6.36	8.87	10.20	Pass
64	5320	4.21	3.63	6.94	10.20	Pass
100	5500	4.48	4.38	7.44	10.20	Pass
116	5580	6.00	6.58	9.31	10.20	Pass
140	5700	1.52	2.17	4.87	10.20	Pass
144 (UNII-2C Band)	5720	5.82	5.51	8.68	10.20	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. Antenna gain = 6.8dBi > 6dBi, so the power density limit shall be reduced to 11-(6.8-6) = 10.20dBm.

### 802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total Power Density (dBm/MHz)	MAX. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
38	5190	-4.22	-4.82	-1.50	10.20	Pass
46	5230	2.28	2.43	5.37	10.20	Pass
54	5270	2.95	2.83	5.90	10.20	Pass
62	5310	-3.05	-3.11	-0.07	10.20	Pass
102	5510	-3.17	-4.32	-0.70	10.20	Pass
110	5550	3.54	2.83	6.21	10.20	Pass
134	5670	0.84	0.90	3.88	10.20	Pass
142 (UNII-2C Band)	5710	2.71	3.23	5.99	10.20	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. Antenna gain = 6.8dBi > 6dBi, so the power density limit shall be reduced to 11-(6.8-6) = 10.20dBm.

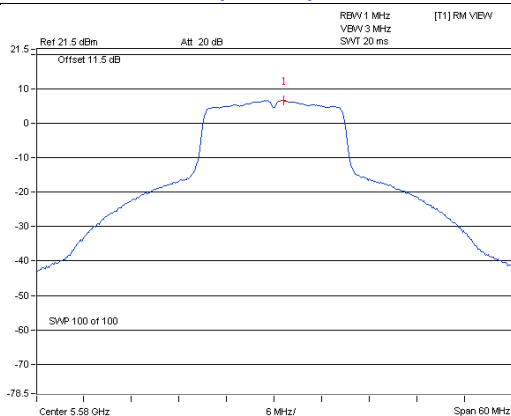
### 802.11ac (VHT80)

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	-7.80	-7.59	0.13	-4.55	10.20	Pass
58	5290	-6.68	-7.33	0.13	-3.86	10.20	Pass
106	5530	-7.41	-7.15	0.13	-4.14	10.20	Pass
122	5610	-1.91	-1.54	0.13	1.42	10.20	Pass
138 (UNII-2C Band)	5690	-0.63	0.11	0.13	2.89	10.20	Pass

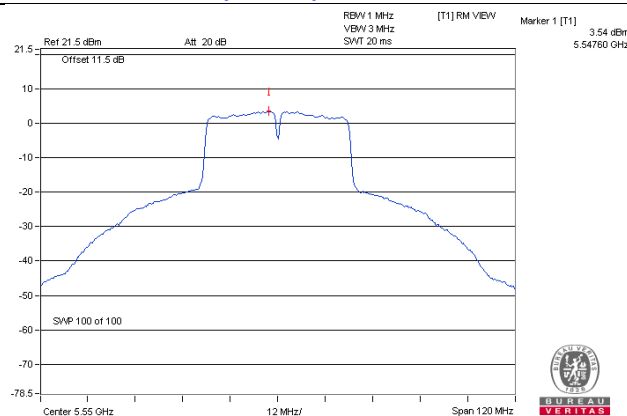
- Note:**
1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
  2. Antenna gain = 6.8dBi > 6dBi, so the power density limit shall be reduced to  $11-(6.8-6) = 10.20\text{dBm}$ .
  3. Refer to section 3.3 for duty cycle spectrum plot.

# Spectrum Plot of Worst Value

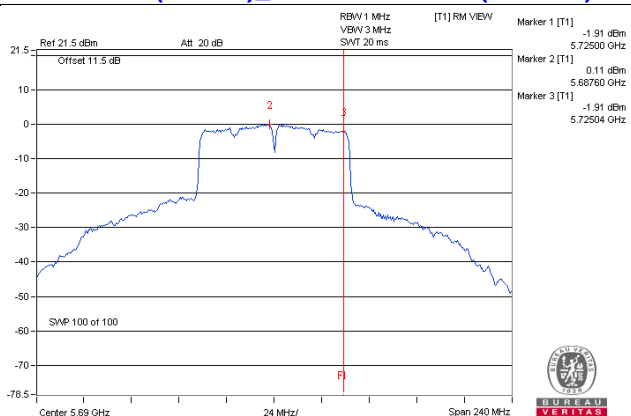
## 802.11ac (VHT20)\_Chain 1 / CH116



## 802.11ac (VHT40)\_Chain 0 / CH110



## 802.11ac (VHT80)\_Chain 1 / CH138 (UNII-2C)



**For U-NII-3:**

**1TX Mode**

**802.11a**

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
144 (U-NII-3 Band)	5720	0.09	2.31	29.20	Pass
149	5745	1.23	3.45	29.20	Pass
157	5785	1.61	3.83	29.20	Pass
165	5825	1.55	3.77	29.20	Pass

**Note:** 1. Antenna gain = 6.8dBi > 6dBi, so the power density limit shall be reduced to 30-(6.8-6)  
=29.20dBm.

**802.11ac (VHT20)**

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
144 (U-NII-3 Band)	5720	-0.37	1.85	29.20	Pass
149	5745	1.22	3.44	29.20	Pass
157	5785	1.33	3.55	29.20	Pass
165	5825	1.24	3.46	29.20	Pass

**Note:** 1. Antenna gain = 6.8dBi > 6dBi, so the power density limit shall be reduced to 30-(6.8-6)  
=29.20dBm.

**802.11ac (VHT40)**

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
142 (U-NII-3 Band)	5710	-4.19	-1.97	29.20	Pass
151	5755	-3.61	-1.39	29.20	Pass
159	5795	-2.55	-0.33	29.20	Pass

**Note:** 1. Antenna gain = 6.8dBi > 6dBi, so the power density limit shall be reduced to 30-(6.8-6)  
=29.20dBm.

### 802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD W/O Duty Factor		Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		(dBm/300kHz)	(dBm/500kHz)				
138 (U-NII-3 Band)	5690	-10.31	-8.09	0.13	-7.96	29.20	Pass
155	5775	-9.50	-7.28	0.13	-7.15	29.20	Pass

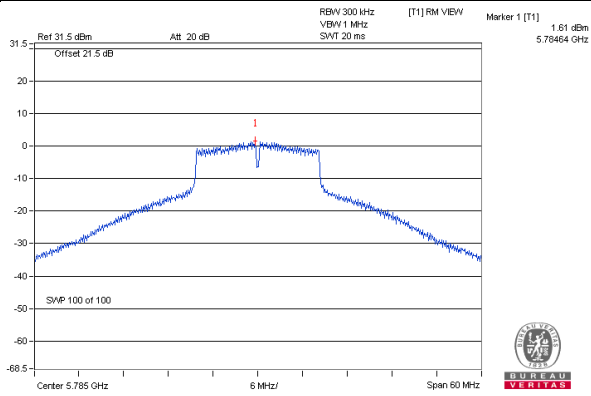
**Note:** 1. Antenna gain = 6.8dBi > 6dBi, so the power density limit shall be reduced to  $30-(6.8-6) = 29.20\text{dBm}$ .

2. Refer to section 3.3 for duty cycle spectrum plot.

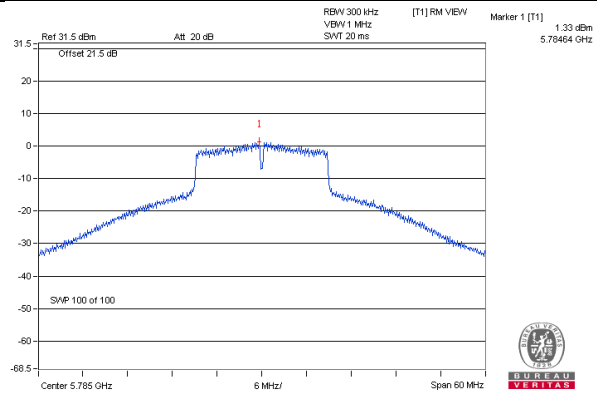


# Spectrum Plot of Worst Value

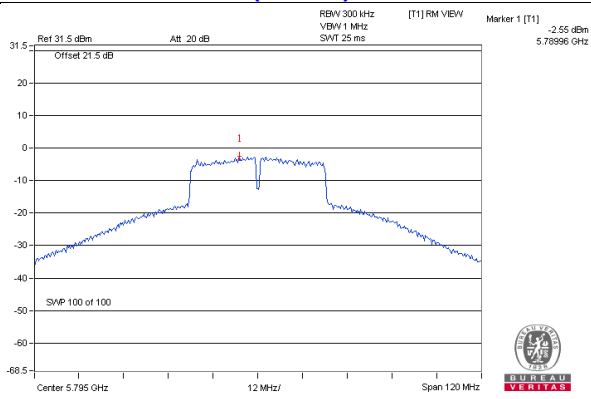
802.11a: CH 157



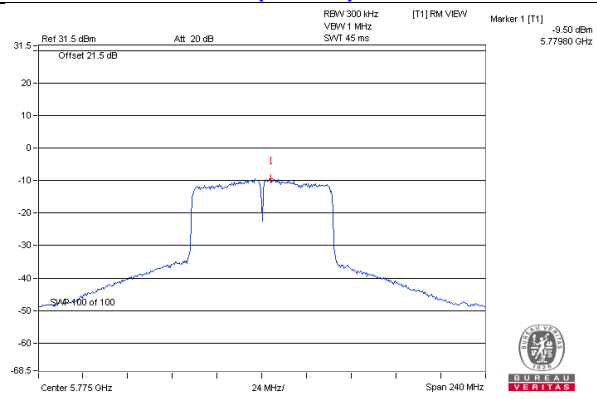
802.11ac (VHT20): CH 157



802.11ac (VHT40): CH 159



802.11ac (VHT80): CH 155



## 2TX Mode

### 802.11ac (VHT20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
0	144 (UNII-3 Band)	5720	-2.83	-0.61	3.01	2.40	29.20	Pass
	149	5745	0.97	3.19	3.01	6.20	29.20	Pass
	157	5785	1.48	3.70	3.01	6.71	29.20	Pass
	165	5825	1.15	3.37	3.01	6.38	29.20	Pass
1	144 (UNII-3 Band)	5720	-3.52	-1.30	3.01	1.71	29.20	Pass
	149	5745	-0.40	1.82	3.01	4.83	29.20	Pass
	157	5785	0.49	2.71	3.01	5.72	29.20	Pass
	165	5825	1.39	3.61	3.01	6.62	29.20	Pass

**Note:** 1. Antenna gain = 6.8dBi > 6dBi, so the power density limit shall be reduced to 30-(6.8-6) =29.20dBm.

### 802.11ac (VHT40)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
0	142 (U-NII-3 Band)	5710	-5.97	-3.75	3.01	-0.74	29.20	Pass
	151	5755	-3.76	-1.54	3.01	1.47	29.20	Pass
	159	5795	-2.84	-0.62	3.01	2.39	29.20	Pass
1	142 (U-NII-3 Band)	5710	-5.69	-3.47	3.01	-0.46	29.20	Pass
	151	5755	-5.30	-3.08	3.01	-0.07	29.20	Pass
	159	5795	-3.85	-1.63	3.01	1.38	29.20	Pass

**Note:** 1. Antenna gain = 6.8dBi > 6dBi, so the power density limit shall be reduced to 30-(6.8-6) =29.20dBm.

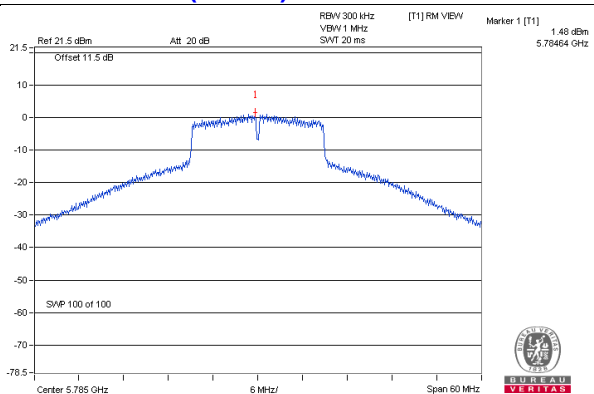
### 802.11ac (VHT80)

TX chain	Chan.	Chan. Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	138 (U-NII-3 Band)	5690	-10.30	-8.08	3.01	0.13	-4.94	29.20	Pass
	155	5775	-10.15	-7.93	3.01	0.13	-4.79	29.20	Pass
1	138 (U-NII-3 Band)	5690	-10.43	-8.21	3.01	0.13	-5.07	29.20	Pass
	155	5775	-8.64	-6.42	3.01	0.13	-3.28	29.20	Pass

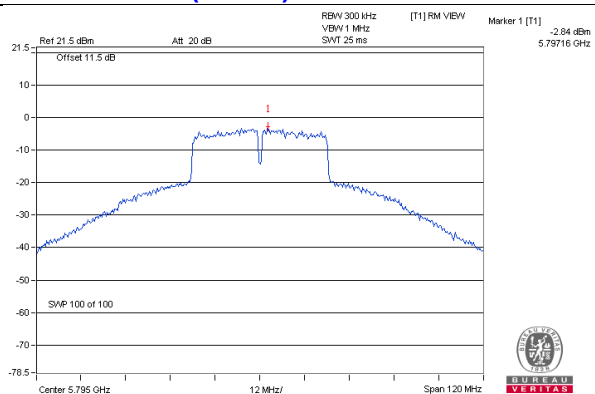
**Note:** 1. Antenna gain = 6.8dBi > 6dBi, so the power density limit shall be reduced to  $30-(6.8-6) = 29.20\text{dBm}$ .  
2. Refer to section 3.3 for duty cycle spectrum plot.

# Spectrum Plot of Worst Value

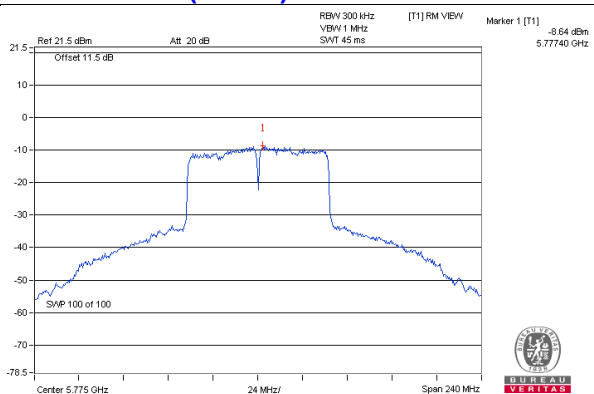
## 802.11ac (VHT20) – Chain 0: CH 157



## 802.11ac (VHT40) – Chain 0: CH 159



## 802.11ac (VHT80) – Chain 1: CH 155

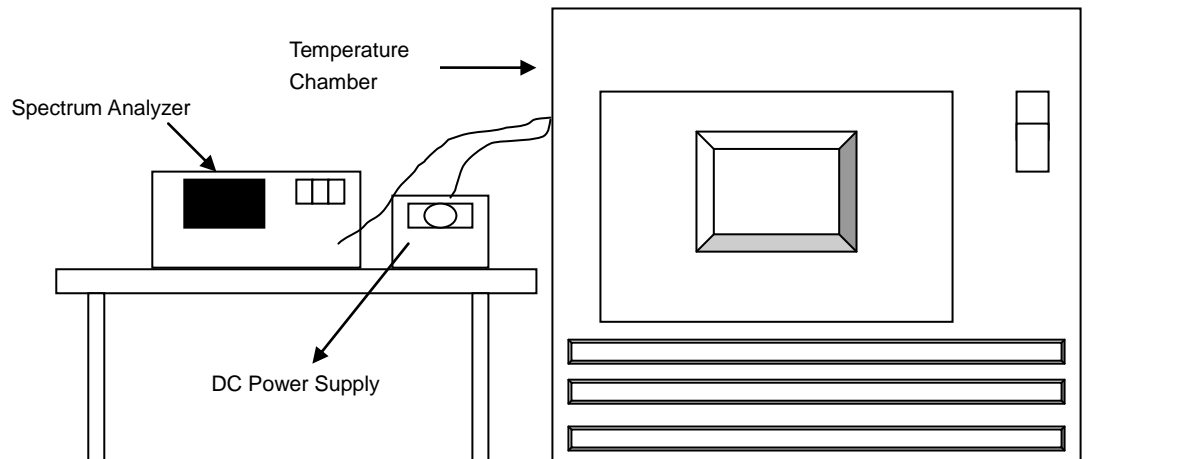


## 4.6 Frequency Stability Measurement

### 4.6.1 Limits of Frequency Stability Measurement

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

### 4.6.2 Test Setup



### 4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.6.4 Test Procedure

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

### 4.6.5 Deviation from Test Standard

No deviation.

### 4.6.6 EUT Operating Condition

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

#### 4.6.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	3.3	5179.9936	PASS	5179.9901	PASS	5179.9932	PASS	5179.9887	PASS
40	3.3	5180.0204	PASS	5180.0171	PASS	5180.0169	PASS	5180.0166	PASS
30	3.3	5180.0247	PASS	5180.0249	PASS	5180.0244	PASS	5180.0267	PASS
20	3.3	5180.0033	PASS	5180.0045	PASS	5180.0018	PASS	5180.0039	PASS
10	3.3	5180.0132	PASS	5180.0134	PASS	5180.0135	PASS	5180.0145	PASS
0	3.3	5179.9878	PASS	5179.9862	PASS	5179.9882	PASS	5179.9854	PASS
-10	3.3	5179.997	PASS	5179.9966	PASS	5179.995	PASS	5179.994	PASS
-20	3.3	5180.0138	PASS	5180.0117	PASS	5180.0121	PASS	5180.0153	PASS
-30	3.3	5179.9909	PASS	5179.99	PASS	5179.988	PASS	5179.9906	PASS

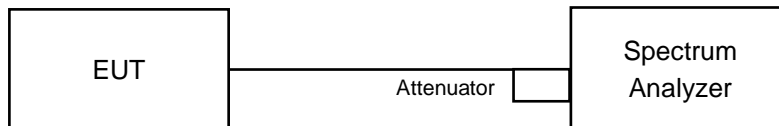
Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	3.3	5180.0025	PASS	5180.0049	PASS	5180.0018	PASS	5180.0034	PASS
	3.3	5180.0033	PASS	5180.0045	PASS	5180.0018	PASS	5180.0039	PASS
	3.3	5180.0024	PASS	5180.0039	PASS	5180.0027	PASS	5180.0035	PASS

## 4.7 6dB Bandwidth Measurement

### 4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

### 4.7.2 Test Setup



### 4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.7.4 Test Procedure

#### MEASUREMENT PROCEDURE REF

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

### 4.7.5 Deviation from Test Standard

No deviation.

### 4.7.6 EUT Operating Condition

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

#### 4.7.7 Test Results

##### 1TX Mode

##### 802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
144 (UNII-3 Band)	5720	3.12	0.5	PASS
149	5745	16.42	0.5	PASS
157	5785	16.40	0.5	PASS
165	5825	16.40	0.5	PASS

##### 802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
144 (UNII-3 Band)	5720	3.73	0.5	PASS
149	5745	17.64	0.5	PASS
157	5785	17.63	0.5	PASS
165	5825	17.64	0.5	PASS

##### 802.11ac (VHT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
142 (UNII-3 Band)	5710	2.53	0.5	PASS
151	5755	35.36	0.5	PASS
159	5795	35.72	0.5	PASS

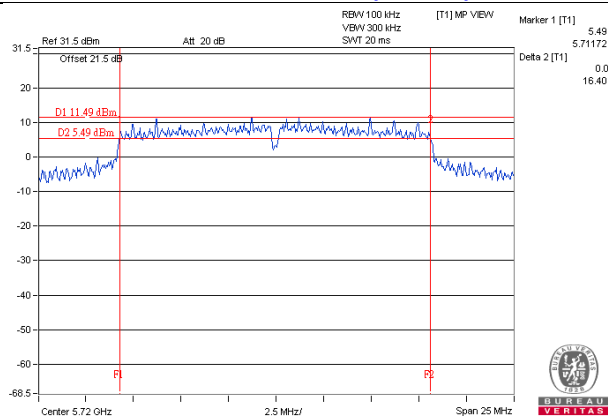
##### 802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
138 (UNII-3 Band)	5690	1.49	0.5	PASS
155	5775	75.32	0.5	PASS

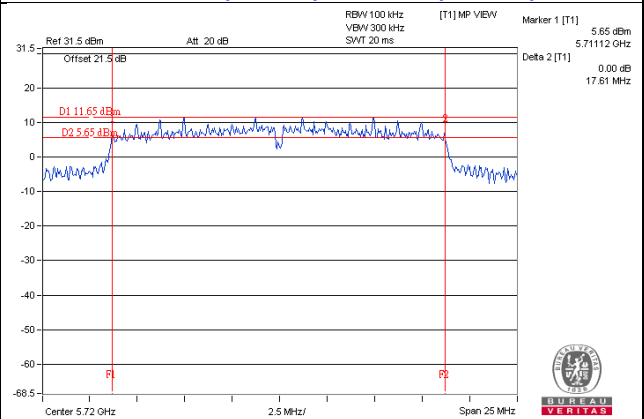


## Spectrum Plot of Worst Value

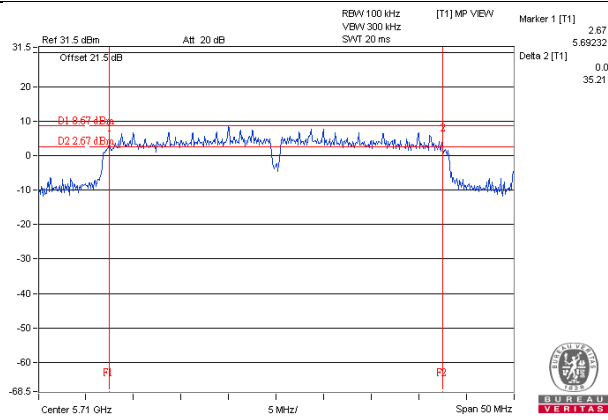
### 802.11a / CH144 (U-NII-3)



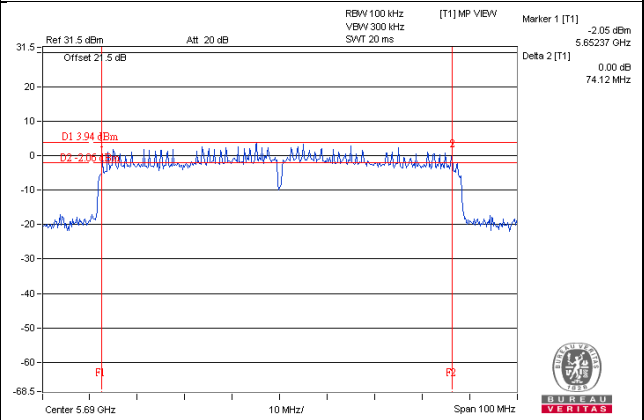
### 802.11ac (VHT20) / CH144 (U-NII-3)



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



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



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

## 2TX Mode

### 802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144 (UNII-3 Band)	5720	3.70	3.75	0.5	PASS
149	5745	17.64	17.63	0.5	PASS
157	5785	17.63	17.61	0.5	PASS
165	5825	17.61	17.62	0.5	PASS

### 802.11ac (VHT40)

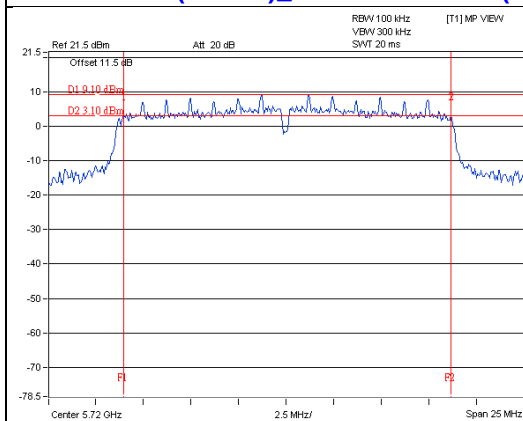
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
142 (UNII-3 Band)	5710	2.58	2.55	0.5	PASS
151	5755	35.21	35.39	0.5	PASS
159	5795	35.22	35.73	0.5	PASS

### 802.11ac (VHT80)

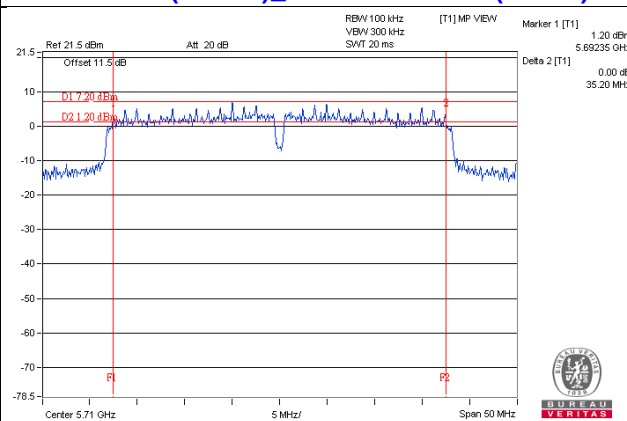
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
138 (UNII-3 Band)	5690	2.63	1.53	0.5	PASS
155	5775	75.31	75.31	0.5	PASS

# Spectrum Plot of Worst Value

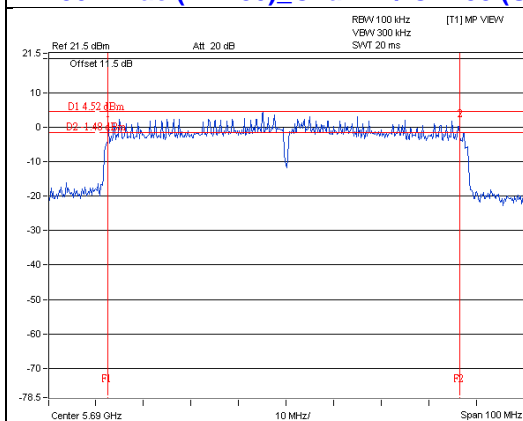
## 802.11ac (VHT20)\_Chain 0 / CH144 (UNII-3)



## 802.11ac (VHT40)\_Chain 1 / CH142 (UNII-3)



## 802.11ac (VHT80)\_Chain 1 / CH138 (UNII-3)



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

## 5 Pictures of Test Arrangements

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

## Appendix – Information 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: 886-2-26051924

### **Hsin Chu EMC/RF/Telecom Lab**

Tel: 886-3-6668565

Fax: 886-3-6668323

### **Hwa Ya EMC/RF/Safety Lab**

Tel: 886-3-3183232

Fax: 886-3-3270892

**Email:** [service.adt@tw.bureauveritas.com](mailto:service.adt@tw.bureauveritas.com)

**Web Site:** [www.bureauveritas-adt.com](http://www.bureauveritas-adt.com)

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

--- END ---

## 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.

#### 4. Limits of unwanted emission out of the restricted bands

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v01r03		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	<input checked="" type="checkbox"/> 15.407(b)(4)(i)	PK:-27 (dBm/MHz) <sup>*1</sup> PK:10 (dBm/MHz) <sup>*2</sup> PK:15.6 (dBm/MHz) <sup>*3</sup> PK:27 (dBm/MHz) <sup>*4</sup>	PK: 68.2(dBuV/m) <sup>*1</sup> PK:105.2 (dBuV/m) <sup>*2</sup> PK: 110.8(dBuV/m) <sup>*3</sup> PK:122.2 (dBuV/m) <sup>*4</sup>
	<input type="checkbox"/> 15.407(b)(4)(ii)	Emission limits in section 15.247(d)	
<sup>*1</sup> beyond 75 MHz or more above of the band edge.		<sup>*2</sup> below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
<sup>*3</sup> below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		<sup>*4</sup> 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 20, 2016	July 19, 2017
Horn_Antenna SCHWARZBECK	BBHA 9120D	9120D-783	Dec. 27, 2016	Dec. 26, 2017
Pre-Amplifier EMCI	EMC12630SE	980385	Feb. 02, 2017	Feb. 01, 2018
RF Cable	EMC104-SM-SM-1200	160923	Feb. 02, 2017	Feb. 01, 2018
	EMC104-SM-SM-2000	150318	Mar. 29, 2017	Mar. 28, 2018
	EMC104-SM-SM-5000	150323	Mar. 29, 2017	Mar. 28, 2018
Pre-Amplifier EMCI	EMC184045SE	980387	Feb. 02, 2017	Feb. 01, 2018
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170608	Dec. 15, 2016	Dec. 14, 2017
RF Cable	SUCOFLEX 102	36432/2 36433/2	Jan. 15, 2017	Jan. 14, 2018
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208410	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP02	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 FCC Site Registration No. is 292998
4. The CANADA Site Registration No. is 20331-2
5. Tested Date: May 13, 2017

### 6.1.3 Test Procedures

- 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 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.

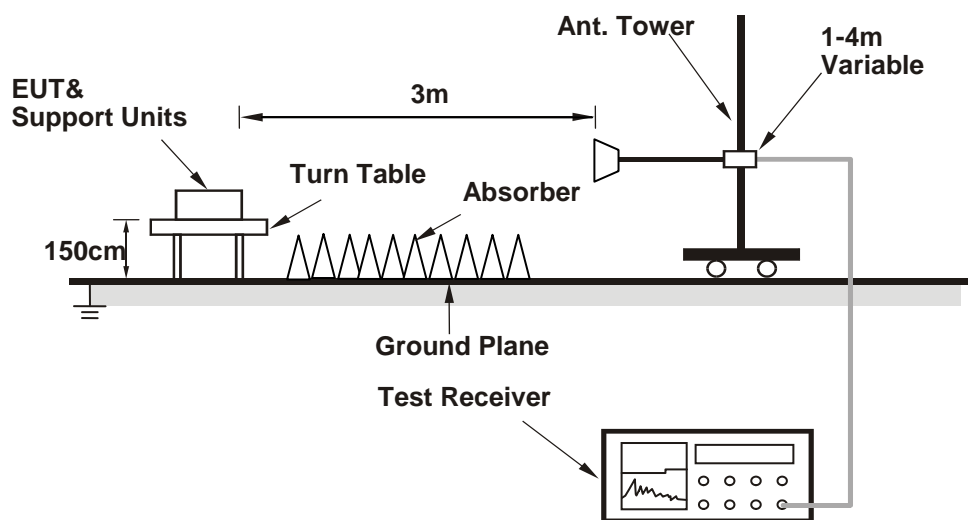
### 6.1.4 Deviation from Test Standard

No deviation.



## 6.1.5 Test Setup

For Radiated emission above 1GHz



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

## 6.1.6 EUT Operating Condition

Same as 4.4.6.

### 6.1.7 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 **Y-plane**.

#### 2TX Mode

#### 802.11ac (VHT20)

<b>CHANNEL</b>	TX Channel 36	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	15536.93	45.3 PK	74.0	-28.7	1.50 H	342	32.1	13.2
2	15536.93	34.2 AV	54.0	-19.8	1.50 H	342	21.0	13.2
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	15536.93	49.1 PK	74.0	-24.9	1.50 V	123	35.9	13.2
2	15536.93	35.6 AV	54.0	-18.4	1.50 V	123	22.4	13.2

#### 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

<b>CHANNEL</b>	TX Channel 40	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	15597.31	46.8 PK	74.0	-27.2	1.80 H	47	33.4	13.4
2	15597.31	35.6 AV	54.0	-18.4	1.80 H	47	22.2	13.4
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	15597.31	51.8 PK	74.0	-22.2	1.16 V	110	38.4	13.4
2	15597.31	37.3 AV	54.0	-16.7	1.16 V	110	23.9	13.4

**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

<b>CHANNEL</b>	TX Channel 48	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	15719.50	47.5 PK	74.0	-26.5	1.85 H	48	33.5	14.0
2	15719.50	36.7 AV	54.0	-17.3	1.85 H	48	22.7	14.0
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	15719.50	51.9 PK	74.0	-22.1	1.66 V	111	37.9	14.0
2	15719.50	38.3 AV	54.0	-15.7	1.66 V	111	24.3	14.0

**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

<b>CHANNEL</b>	TX Channel 52	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	15779.87	48.3 PK	74.0	-25.7	1.80 H	49	34.2	14.1
2	15779.87	37.5 AV	54.0	-16.5	1.80 H	49	23.4	14.1
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	15779.87	52.6 PK	74.0	-21.4	1.65 V	94	38.5	14.1
2	15779.87	39.3 AV	54.0	-14.7	1.65 V	94	25.2	14.1

**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

<b>CHANNEL</b>	TX Channel 60	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	15899.18	48.9 PK	74.0	-25.1	1.83 H	55	35.7	13.2
2	15899.18	37.9 AV	54.0	-16.1	1.83 H	55	24.7	13.2

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	15899.18	52.8 PK	74.0	-21.2	1.60 V	112	39.6	13.2
2	15899.18	39.9 AV	54.0	-14.1	1.60 V	112	26.7	13.2

**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

<b>CHANNEL</b>	TX Channel 64	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	15958.12	46.5 PK	74.0	-27.5	1.84 H	54	33.1	13.4
2	15958.12	35.3 AV	54.0	-18.7	1.84 H	54	21.9	13.4
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	15958.12	49.1 PK	74.0	-24.9	1.61 V	109	35.7	13.4
2	15958.12	36.3 AV	54.0	-17.7	1.61 V	109	22.9	13.4

**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

<b>CHANNEL</b>	TX Channel 116	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	#16737.25	50.2 PK	74.0	-23.8	1.78 H	58	33.7	16.5
2	#16737.25	38.3 AV	54.0	-15.7	1.78 H	58	21.8	16.5
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	#16737.25	54.5 PK	74.0	-19.5	1.61 V	117	38.0	16.5
2	#16737.25	40.3 AV	54.0	-13.7	1.61 V	117	23.8	16.5

**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.



<b>CHANNEL</b>	TX Channel 144	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	#17161.30	50.6 PK	74.0	-23.4	1.80 H	40	32.3	18.3
2	#17161.30	38.9 AV	54.0	-15.1	1.80 H	40	20.6	18.3
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	#17161.30	54.8 PK	74.0	-19.2	1.57 V	99	36.5	18.3
2	#17161.30	41.1 AV	54.0	-12.9	1.57 V	99	22.8	18.3

**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.

<b>CHANNEL</b>	TX Channel 149	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	#17237.50	58.6 PK	74.0	-15.4	1.82 H	38	40.3	18.3
2	#17237.50	48.5 AV	54.0	-5.5	1.82 H	38	30.2	18.3
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	#17237.50	64.2 PK	74.0	-9.8	1.68 V	104	45.9	18.3
2	#17237.50	50.8 AV	54.0	-3.2	1.68 V	104	32.5	18.3

**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.

<b>CHANNEL</b>	TX Channel 157	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	#17349.62	58.8 PK	74.0	-15.2	1.79 H	61	40.0	18.8
2	#17349.62	48.8 AV	54.0	-5.2	1.79 H	61	30.0	18.8
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	#17349.62	63.5 PK	74.0	-10.5	1.72 V	108	44.7	18.8
2	#17349.62	49.6 AV	54.0	-4.4	1.72 V	108	30.8	18.8

**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.

<b>CHANNEL</b>	TX Channel 165	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	#17474.68	58.5 PK	74.0	-15.5	1.82 H	57	38.8	19.7
2	#17474.68	48.4 AV	54.0	-5.6	1.82 H	57	28.7	19.7
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	#17474.68	63.2 PK	74.0	-10.8	1.66 V	117	43.5	19.7
2	#17474.68	49.1 AV	54.0	-4.9	1.66 V	117	29.4	19.7

**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
5. " # ": The radiated frequency is out of the restricted band.

# 802.11ac (VHT40)

<b>CHANNEL</b>	TX Channel 46	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	15682.12	45.2 PK	74.0	-28.8	1.75 H	40	31.2	14.0
2	15682.12	38.5 AV	54.0	-15.5	1.75 H	40	24.5	14.0
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	15682.12	47.8 PK	74.0	-26.2	1.61 V	115	33.8	14.0
2	15682.12	40.6 AV	54.0	-13.4	1.61 V	115	26.6	14.0

## 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

<b>CHANNEL</b>	TX Channel 142	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	#17123.93	48.6 PK	74.0	-25.4	1.76 H	41	30.1	18.5
2	#17123.93	40.0 AV	54.0	-14.0	1.76 H	41	21.5	18.5
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	#17123.93	51.6 PK	74.0	-22.4	1.65 V	110	33.1	18.5
2	#17123.93	42.9 AV	54.0	-11.1	1.65 V	110	24.4	18.5

**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.

<b>CHANNEL</b>	TX Channel 151	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	#17259.06	49.5 PK	74.0	-24.5	1.74 H	56	31.0	18.5
2	#17259.06	41.2 AV	54.0	-12.8	1.74 H	56	22.7	18.5
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	#17259.06	52.0 PK	74.0	-22.0	1.62 V	64	33.5	18.5
2	#17259.06	43.2 AV	54.0	-10.8	1.62 V	64	24.7	18.5

**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.

<b>CHANNEL</b>	TX Channel 159	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	#17375.50	51.8 PK	74.0	-22.2	1.82 H	62	32.7	19.1
2	#17375.50	41.9 AV	54.0	-12.1	1.82 H	62	22.8	19.1
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	#17375.50	53.1 PK	74.0	-20.9	1.60 V	86	34.0	19.1
2	#17375.50	43.5 AV	54.0	-10.5	1.60 V	86	24.4	19.1

**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.