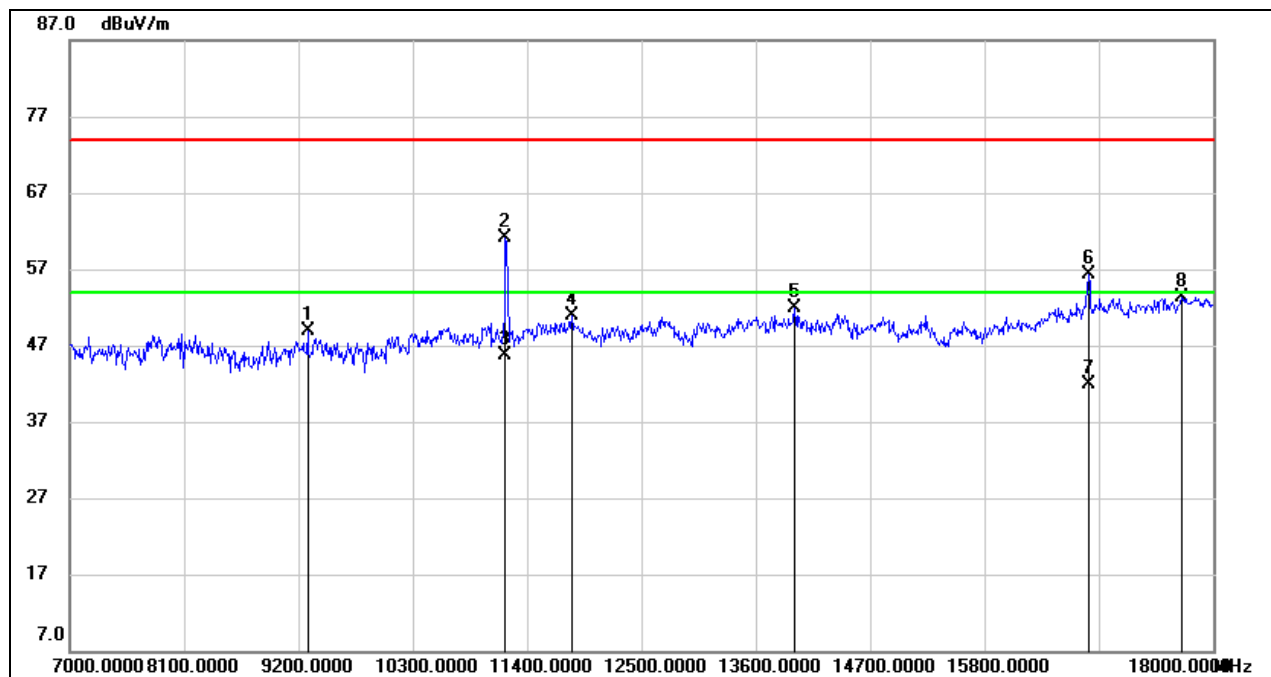




### 7-18GHz



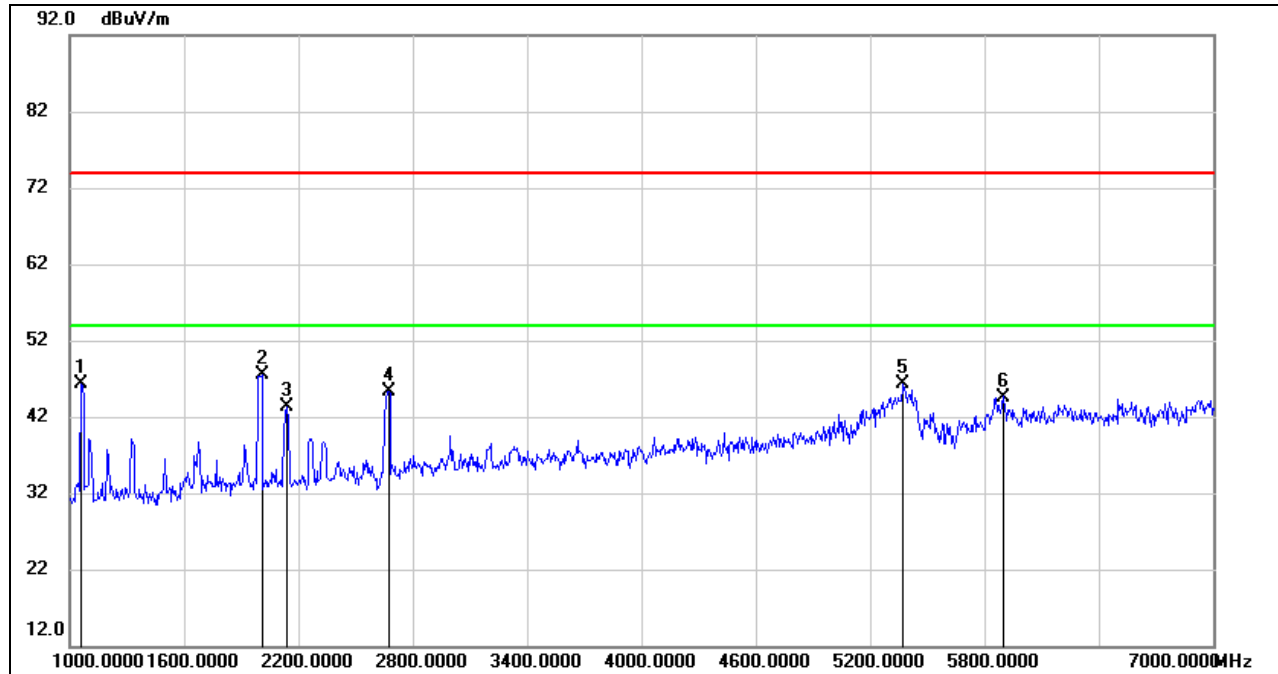
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9288.000	38.55	10.32	48.87	74.00	-25.13	peak
2	11191.000	47.24	13.80	61.04	74.00	-12.96	peak
3	11191.000	31.83	13.80	45.63	54.00	-8.37	AVG
4	11829.000	36.55	14.42	50.97	74.00	-23.03	peak
5	13974.000	35.21	16.75	51.96	74.00	-22.04	peak
6	16801.000	35.71	20.53	56.24	74.00	-17.76	peak
7	16801.000	21.38	20.53	41.91	54.00	-12.09	AVG
8	17692.000	30.72	22.54	53.26	74.00	-20.74	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz

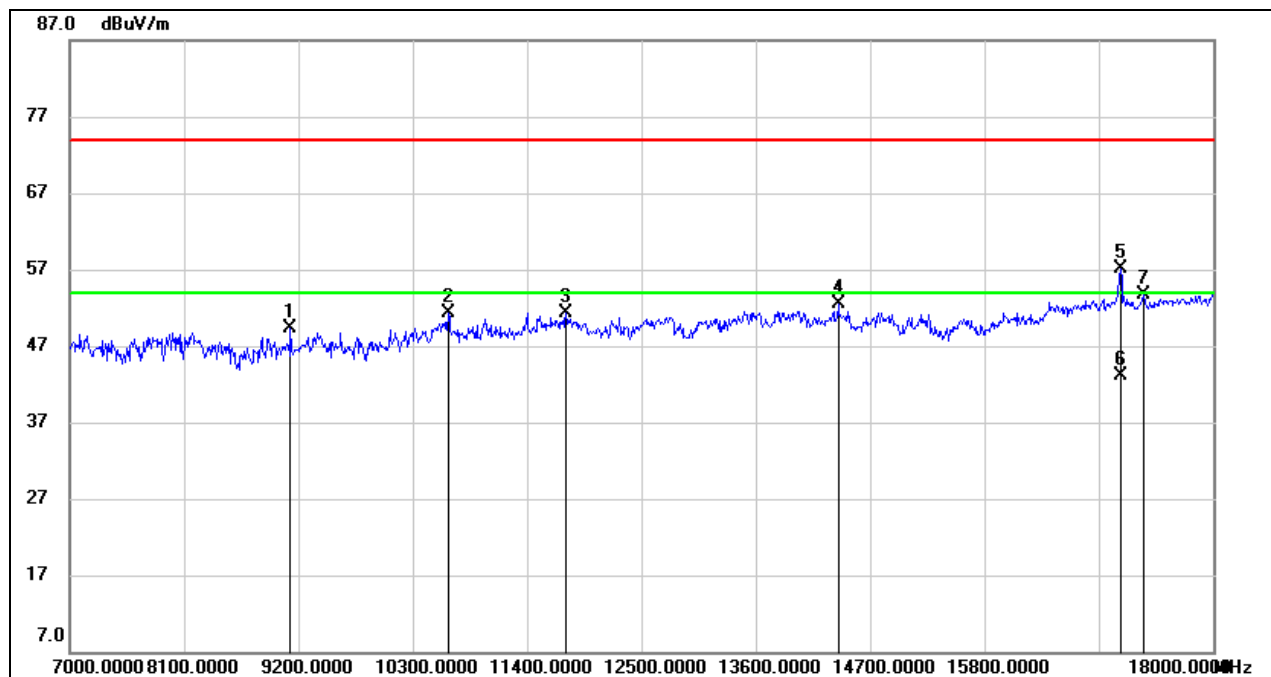


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	60.85	-14.51	46.34	74.00	-27.66	peak
2	2008.000	58.33	-10.81	47.52	74.00	-26.48	peak
3	2140.000	53.33	-10.05	43.28	74.00	-30.72	peak
4	2674.000	53.37	-8.08	45.29	74.00	-28.71	peak
5	5374.000	45.32	0.90	46.22	74.00	-27.78	peak
6	5896.000	39.81	4.79	44.60	74.00	-29.40	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**HORIZONTAL RESULTS**  
**7-18GHz**

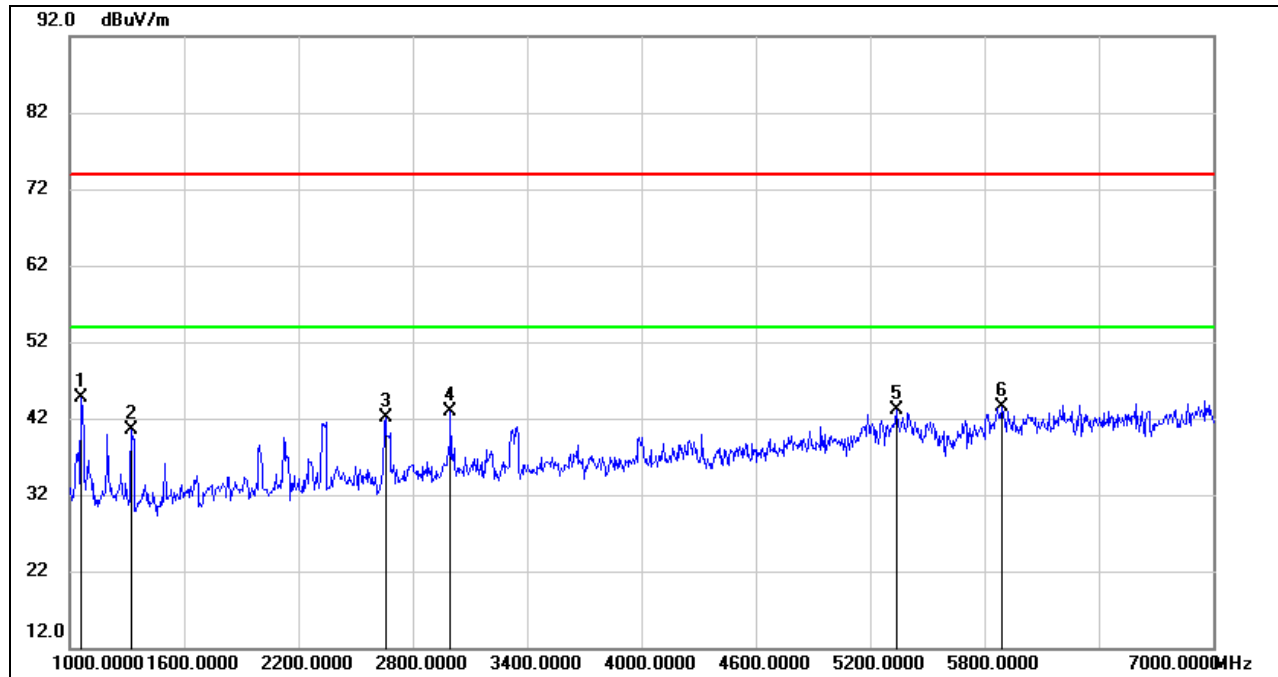


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9123.000	38.76	10.47	49.23	74.00	-24.77	peak
2	10641.000	38.21	13.12	51.33	74.00	-22.67	peak
3	11774.000	36.93	14.31	51.24	74.00	-22.76	peak
4	14392.000	35.47	16.99	52.46	74.00	-21.54	peak
5	17109.000	35.70	21.31	57.01	74.00	-16.99	peak
6	17109.000	21.78	21.31	43.09	54.00	-10.91	AVG
7	17329.000	31.70	22.07	53.77	74.00	-20.23	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**1-7GHz**

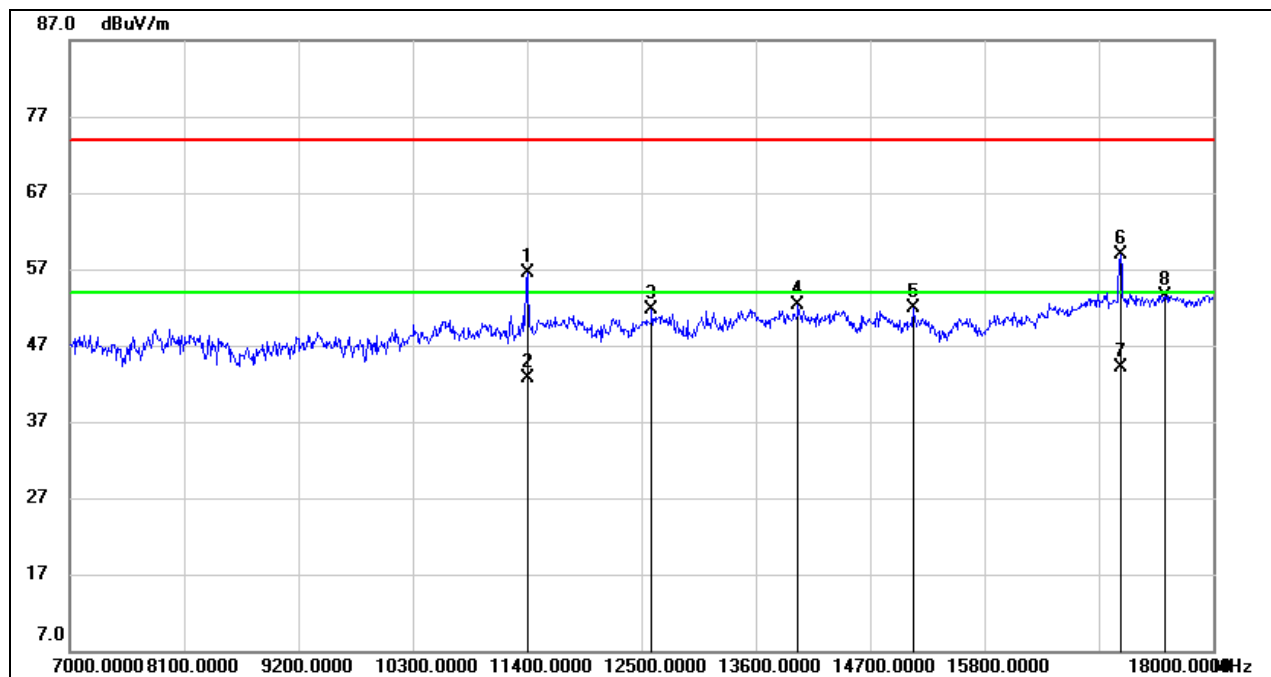


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	59.24	-14.51	44.73	74.00	-29.27	peak
2	1324.000	53.70	-13.17	40.53	74.00	-33.47	peak
3	2656.000	50.26	-8.21	42.05	74.00	-31.95	peak
4	2998.000	49.24	-6.27	42.97	74.00	-31.03	peak
5	5338.000	42.10	0.96	43.06	74.00	-30.94	peak
6	5890.000	38.75	4.68	43.43	74.00	-30.57	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



### 7-18GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	42.76	13.81	56.57	74.00	-17.43	peak
2	11400.000	28.81	13.81	42.62	54.00	-11.38	AVG
3	12599.000	37.09	14.67	51.76	74.00	-22.24	peak
4	14007.000	35.43	16.78	52.21	74.00	-21.79	peak
5	15118.000	35.97	15.96	51.93	74.00	-22.07	peak
6	17109.000	37.51	21.31	58.82	74.00	-15.18	peak
7	17109.000	22.78	21.31	44.09	54.00	-9.91	AVG
8	17538.000	31.81	21.76	53.57	74.00	-20.43	peak

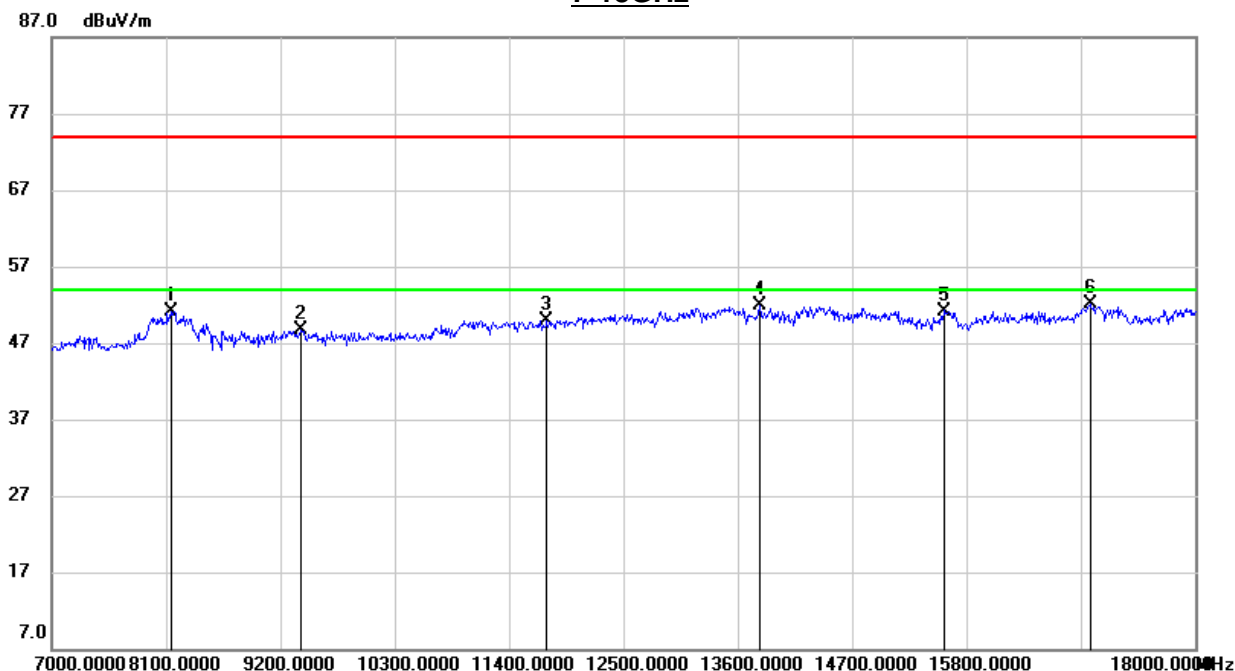
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



## 8.2.4. STRADDLE CHANNEL 144

### HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

#### HORIZONTAL RESULTS 7-18GHz

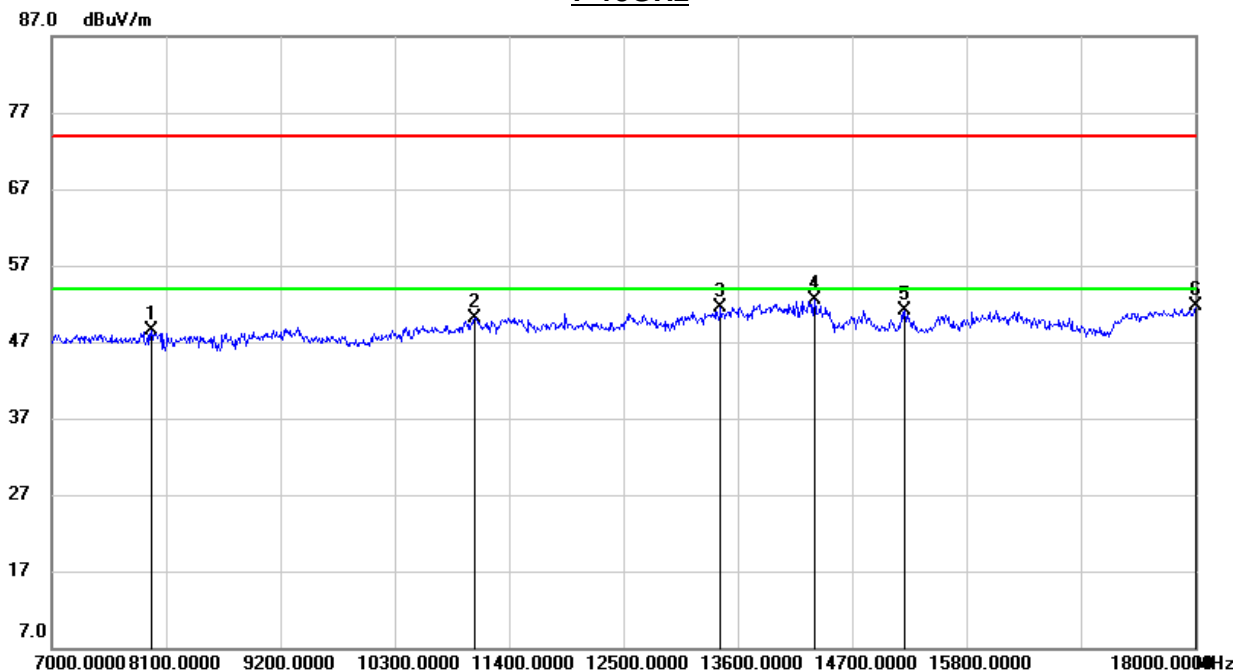


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8144.000	41.14	9.94	51.08	74.00	-22.92	peak
2	9398.000	37.73	10.96	48.69	74.00	-25.31	peak
3	11763.000	35.66	14.29	49.95	74.00	-24.05	peak
4	13809.000	34.32	17.49	51.81	74.00	-22.19	peak
5	15591.000	34.21	16.99	51.20	74.00	-22.80	peak
6	16988.000	31.16	21.01	52.17	74.00	-21.83	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**7-18GHz**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7957.000	39.39	9.04	48.43	74.00	-25.57	peak
2	11070.000	36.50	13.68	50.18	74.00	-23.82	peak
3	13435.000	35.10	16.37	51.47	74.00	-22.53	peak
4	14337.000	35.58	16.86	52.44	74.00	-21.56	peak
5	15206.000	34.99	16.06	51.05	74.00	-22.95	peak
6	18000.000	28.22	23.48	51.70	74.00	-22.30	peak

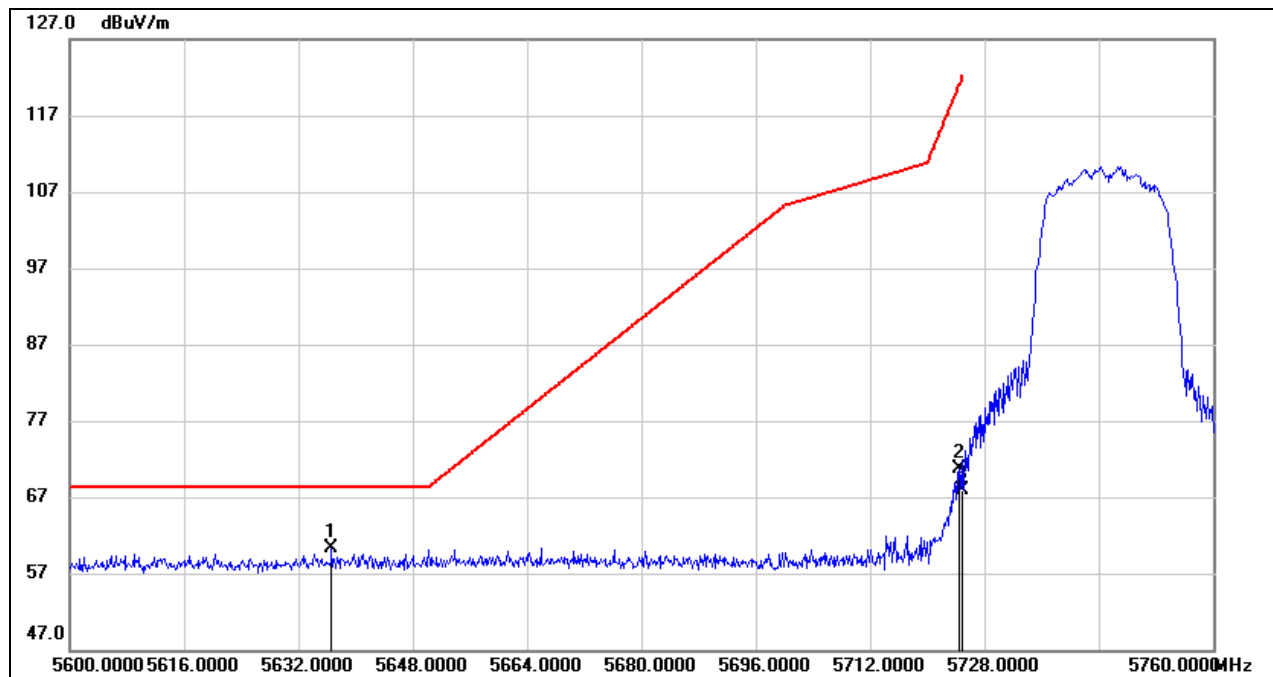
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



## 8.2.5. UNII-3 BAND

### RESTRICTED BANDEDGE LOW CHANNEL

#### HORIZONTAL RESULTS



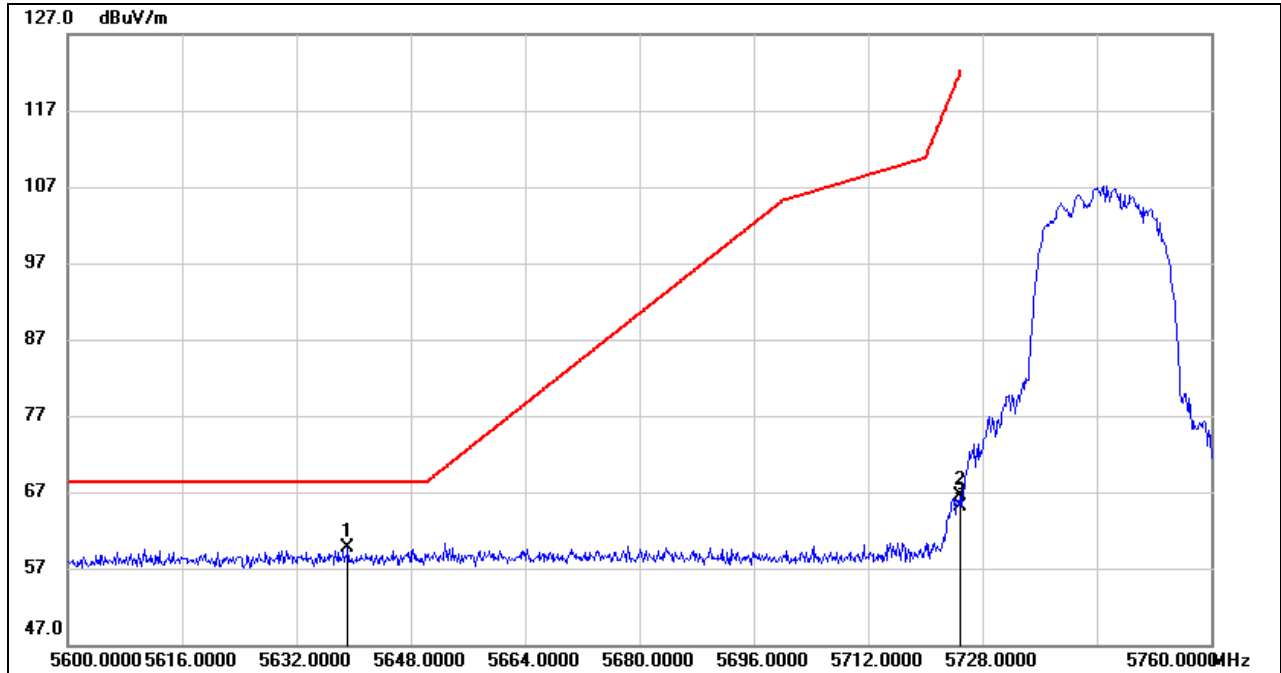
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5636.640	18.78	41.47	60.25	68.20	-7.95	peak
2	5724.480	29.07	41.61	70.68	121.01	-50.33	peak
3	5725.000	26.32	41.61	67.93	122.20	-54.27	peak

Note: 1. Measurement = Reading Level + Correct Factor.





### VERTICAL RESULTS



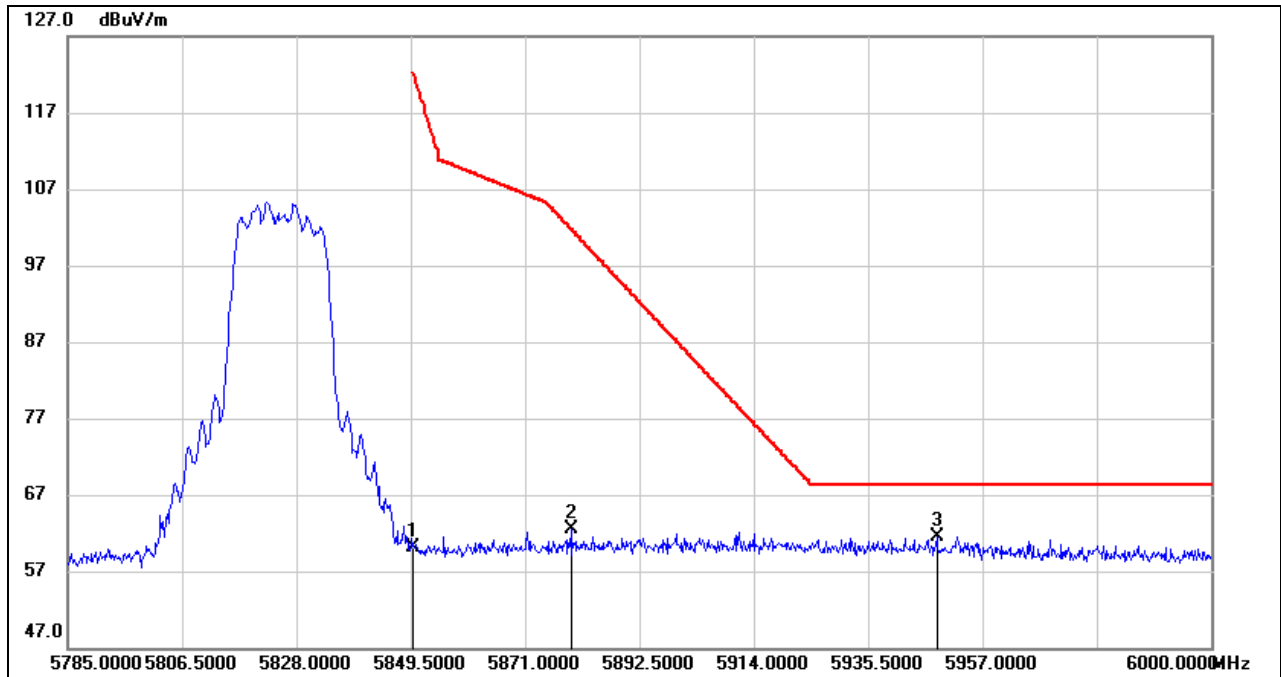
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5639.200	18.22	41.48	59.70	68.20	-8.50	peak
2	5724.800	24.83	41.61	66.44	121.74	-55.30	peak
3	5725.000	23.49	41.61	65.10	122.20	-57.10	peak

Note: 1. Measurement = Reading Level + Correct Factor.



**RESTRICTED BANEDGE HIGH CHANNEL**

**HORIZONTAL RESULTS**

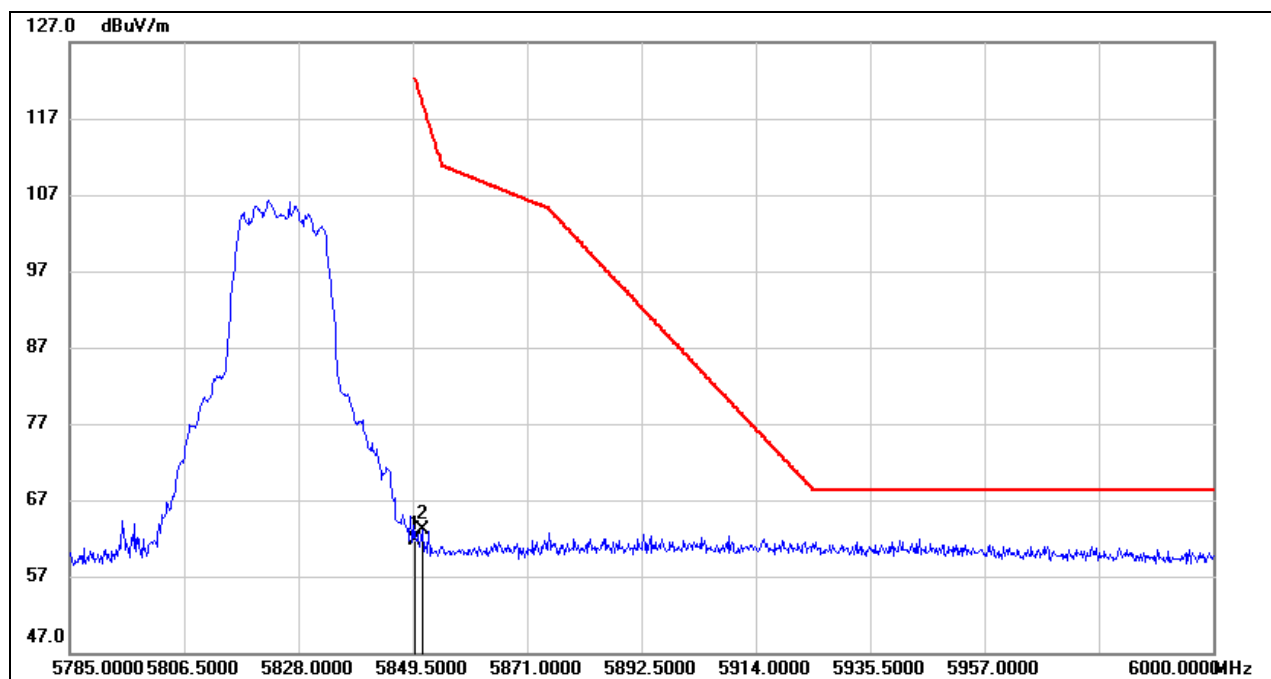


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	17.29	42.89	60.18	122.20	-62.02	peak
2	5879.600	18.99	43.46	62.45	101.78	-39.33	peak
3	5948.400	18.57	43.02	61.59	68.20	-6.61	peak

Note: 1. Measurement = Reading Level + Correct Factor.



### VERTICAL RESULTS



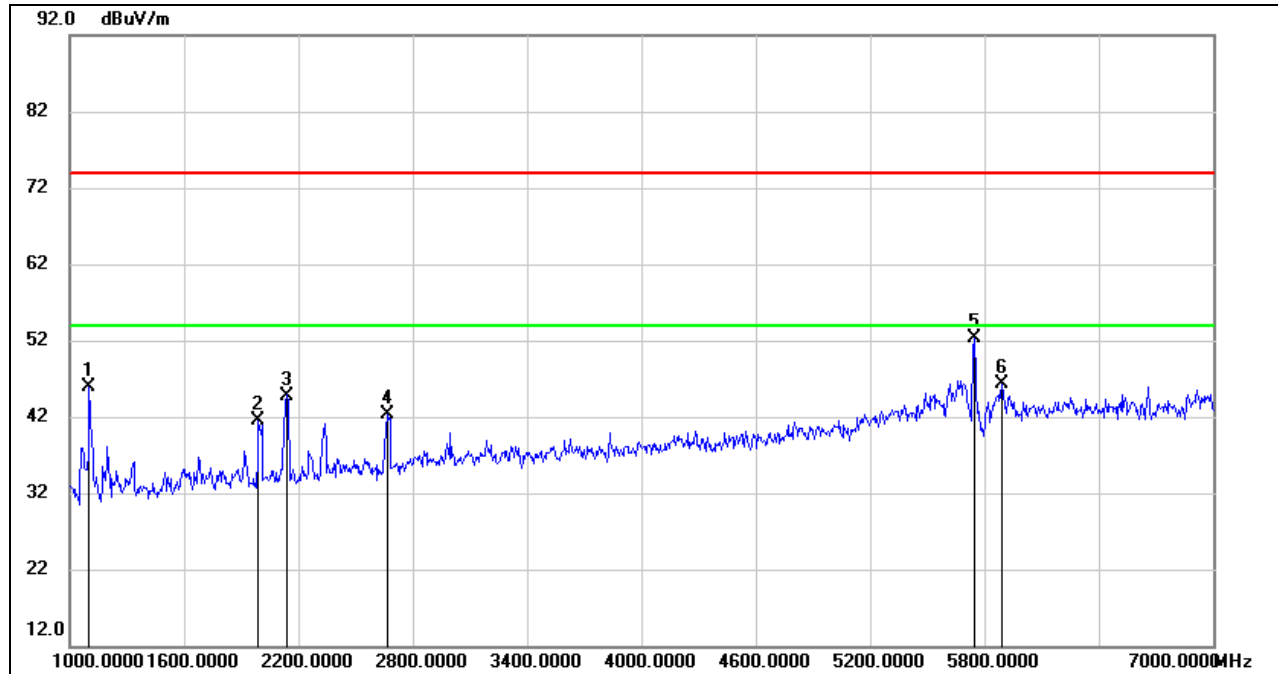
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	18.84	42.89	61.73	122.20	-60.47	peak
2	5851.435	20.09	42.92	63.01	118.93	-55.92	peak

Note: 1. Measurement = Reading Level + Correct Factor.



## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz

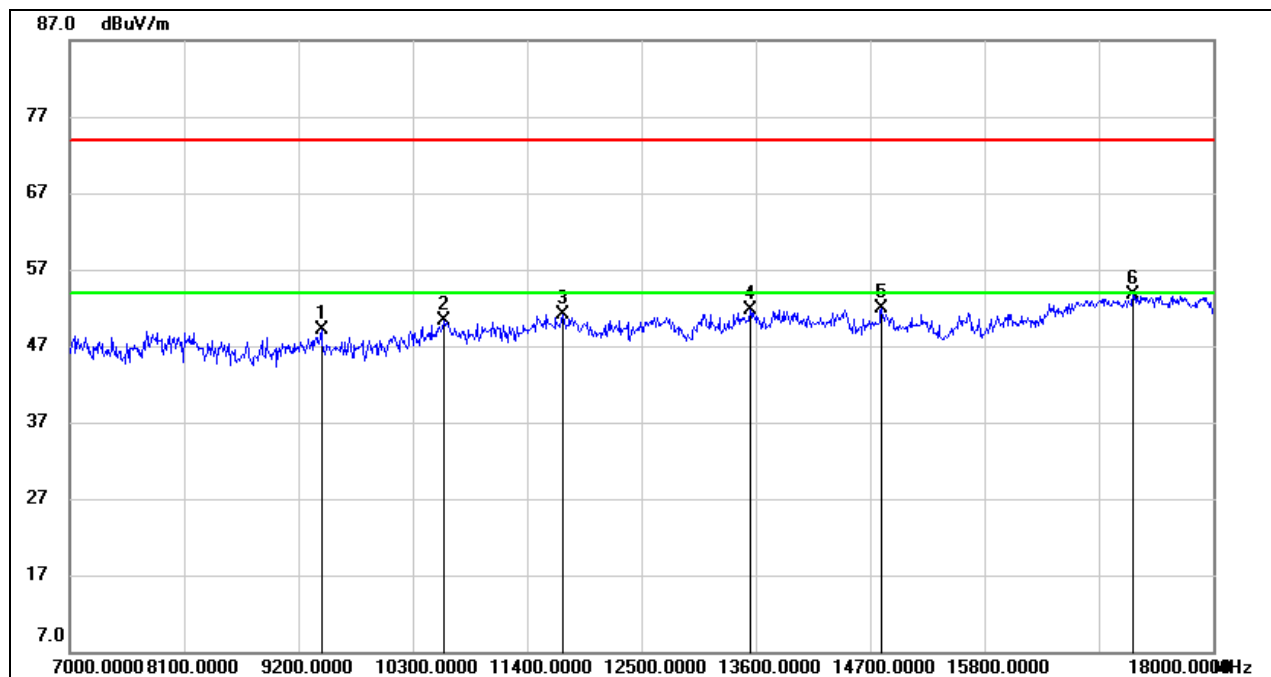


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1102.000	60.27	-14.41	45.86	74.00	-28.14	peak
2	1990.000	52.34	-10.86	41.48	74.00	-32.52	peak
3	2140.000	54.85	-10.05	44.80	74.00	-29.20	peak
4	2668.000	50.50	-8.13	42.37	74.00	-31.63	peak
5	5745.000	49.69	2.52	52.21	74.00	-21.79	peak
6	5890.000	41.58	4.68	46.26	74.00	-27.74	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**HORIZONTAL RESULTS**  
**7-18GHz**

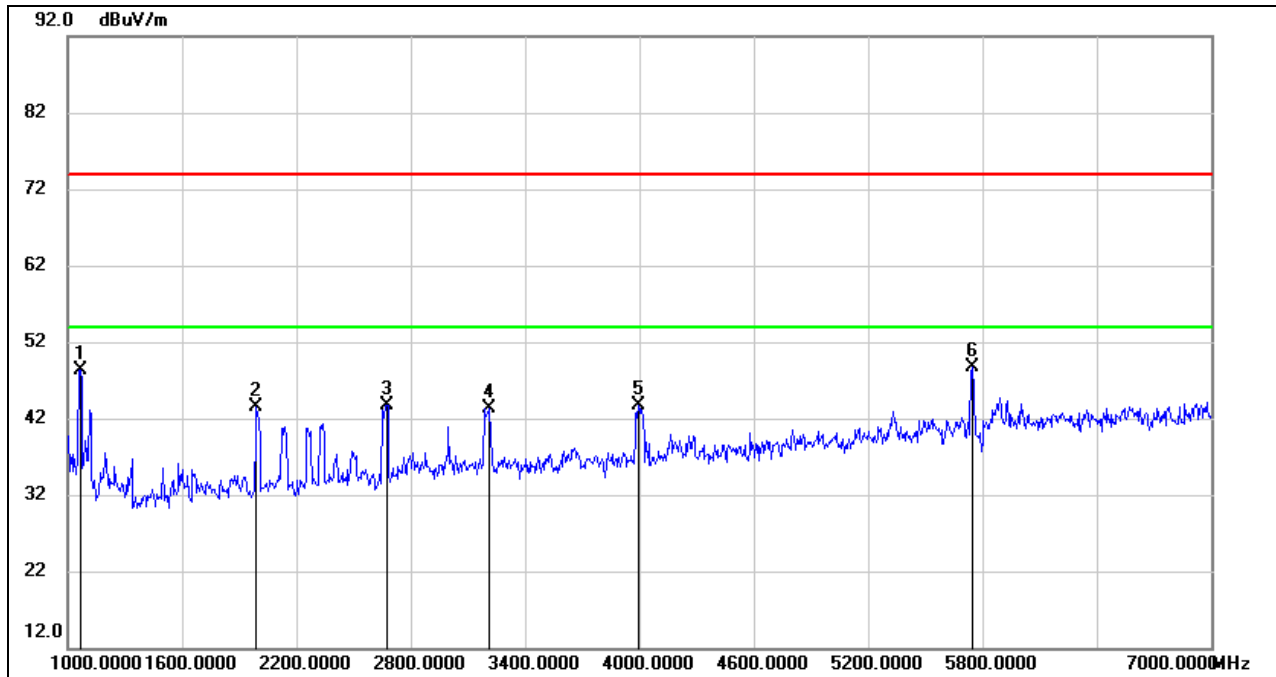


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9420.000	38.24	10.93	49.17	74.00	-24.83	peak
2	10597.000	36.89	13.38	50.27	74.00	-23.73	peak
3	11741.000	36.80	14.24	51.04	74.00	-22.96	peak
4	13545.000	35.29	16.33	51.62	74.00	-22.38	peak
5	14810.000	35.76	16.12	51.88	74.00	-22.12	peak
6	17230.000	31.95	21.74	53.69	74.00	-20.31	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**1-7GHz**

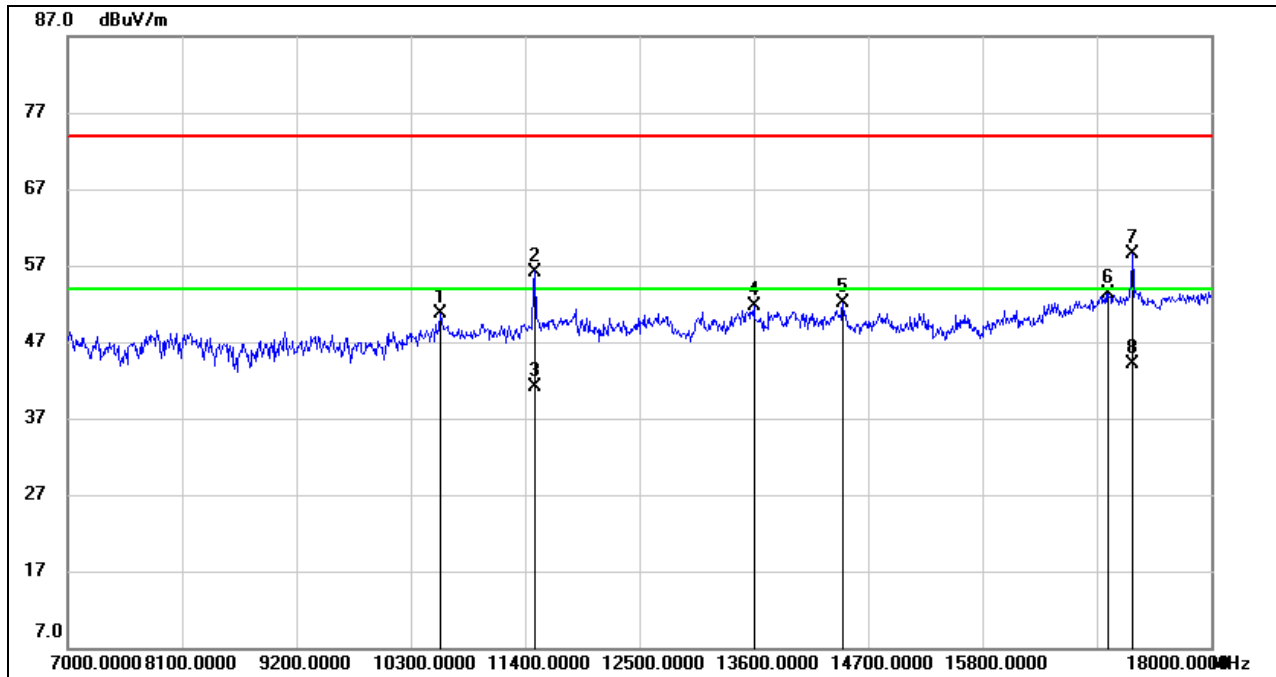


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1066.000	62.85	-14.50	48.35	74.00	-25.65	peak
2	1990.000	54.45	-10.86	43.59	74.00	-30.41	peak
3	2674.000	51.82	-8.08	43.74	74.00	-30.26	peak
4	3214.000	49.26	-5.93	43.33	74.00	-30.67	peak
5	3994.000	47.75	-4.08	43.67	74.00	-30.33	peak
6	5745.000	46.13	2.52	48.65	74.00	-25.35	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**7-18GHz**



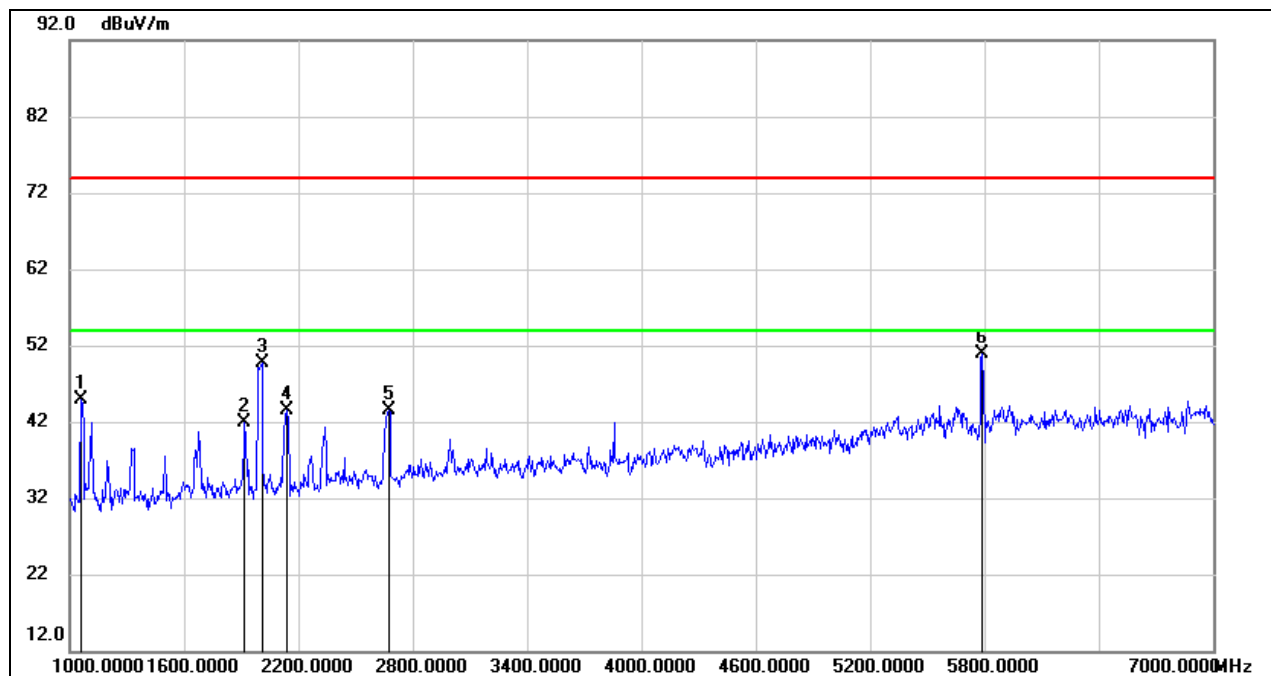
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10586.000	37.52	13.25	50.77	74.00	-23.23	peak
2	11488.000	41.83	14.37	56.20	74.00	-17.80	peak
3	11488.000	26.76	14.37	41.13	54.00	-12.87	AVG
4	13600.000	35.25	16.48	51.73	74.00	-22.27	peak
5	14458.000	35.19	16.91	52.10	74.00	-21.90	peak
6	17010.000	32.21	21.11	53.32	74.00	-20.68	peak
7	17241.000	36.67	21.81	58.48	74.00	-15.52	peak
8	17241.000	22.28	21.81	44.09	54.00	-9.91	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



## HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL

### HORIZONTAL RESULTS 1-7GHz



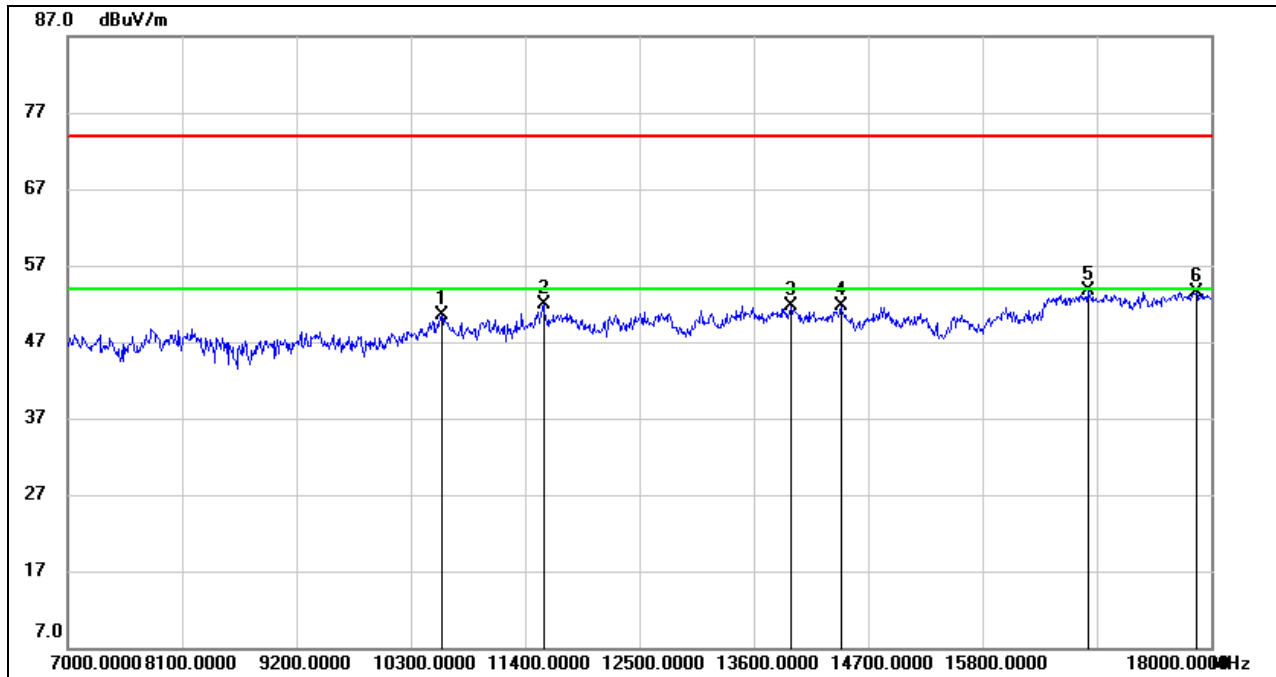
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	59.43	-14.51	44.92	74.00	-29.08	peak
2	1918.000	52.80	-10.83	41.97	74.00	-32.03	peak
3	2008.000	60.51	-10.81	49.70	74.00	-24.30	peak
4	2140.000	53.50	-10.05	43.45	74.00	-30.55	peak
5	2674.000	51.61	-8.08	43.53	74.00	-30.47	peak
6	5785.000	48.18	2.80	50.98	74.00	-23.02	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.





**HORIZONTAL RESULTS**  
**7-18GHz**

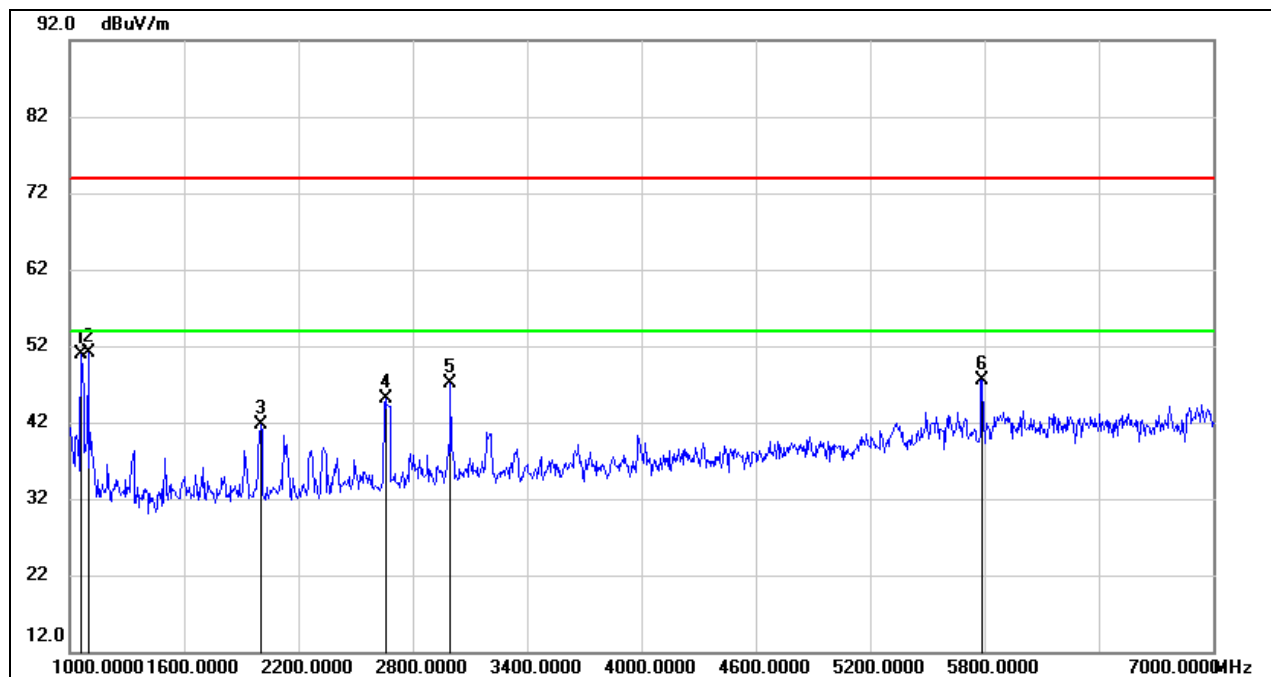


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10597.000	37.13	13.38	50.51	74.00	-23.49	peak
2	11576.000	37.38	14.60	51.98	74.00	-22.02	peak
3	13963.000	34.92	16.75	51.67	74.00	-22.33	peak
4	14436.000	34.79	16.95	51.74	74.00	-22.26	peak
5	16812.000	33.10	20.53	53.63	74.00	-20.37	peak
6	17857.000	30.07	23.42	53.49	74.00	-20.51	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**1-7GHz**

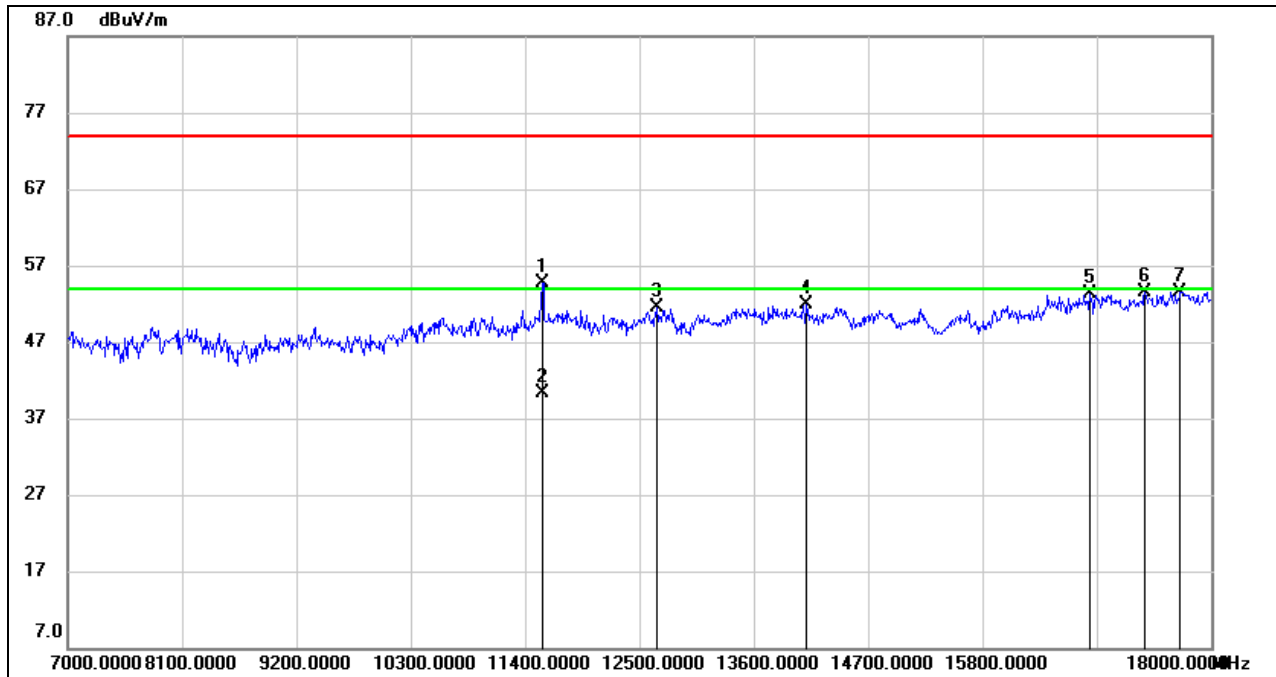


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	65.33	-14.51	50.82	74.00	-23.18	peak
2	1096.000	65.45	-14.43	51.02	74.00	-22.98	peak
3	2002.000	52.65	-10.85	41.80	74.00	-32.20	peak
4	2656.000	53.26	-8.21	45.05	74.00	-28.95	peak
5	2998.000	53.42	-6.27	47.15	74.00	-26.85	peak
6	5785.000	44.68	2.80	47.48	74.00	-26.52	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**7-18GHz**



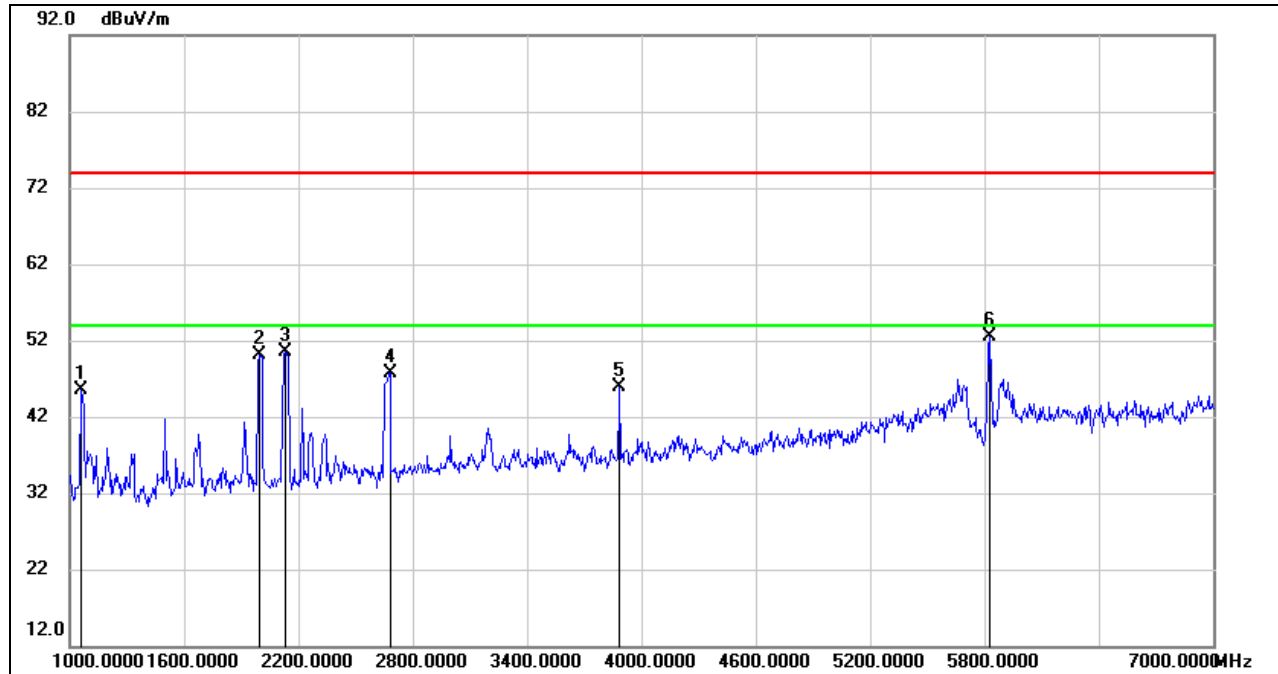
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11565.000	40.21	14.56	54.77	74.00	-19.23	peak
2	11565.000	25.66	14.56	40.22	54.00	-13.78	AVG
3	12665.000	36.65	14.76	51.41	74.00	-22.59	peak
4	14106.000	35.08	16.78	51.86	74.00	-22.14	peak
5	16834.000	32.81	20.52	53.33	74.00	-20.67	peak
6	17362.000	31.54	21.94	53.48	74.00	-20.52	peak
7	17703.000	30.96	22.62	53.58	74.00	-20.42	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz

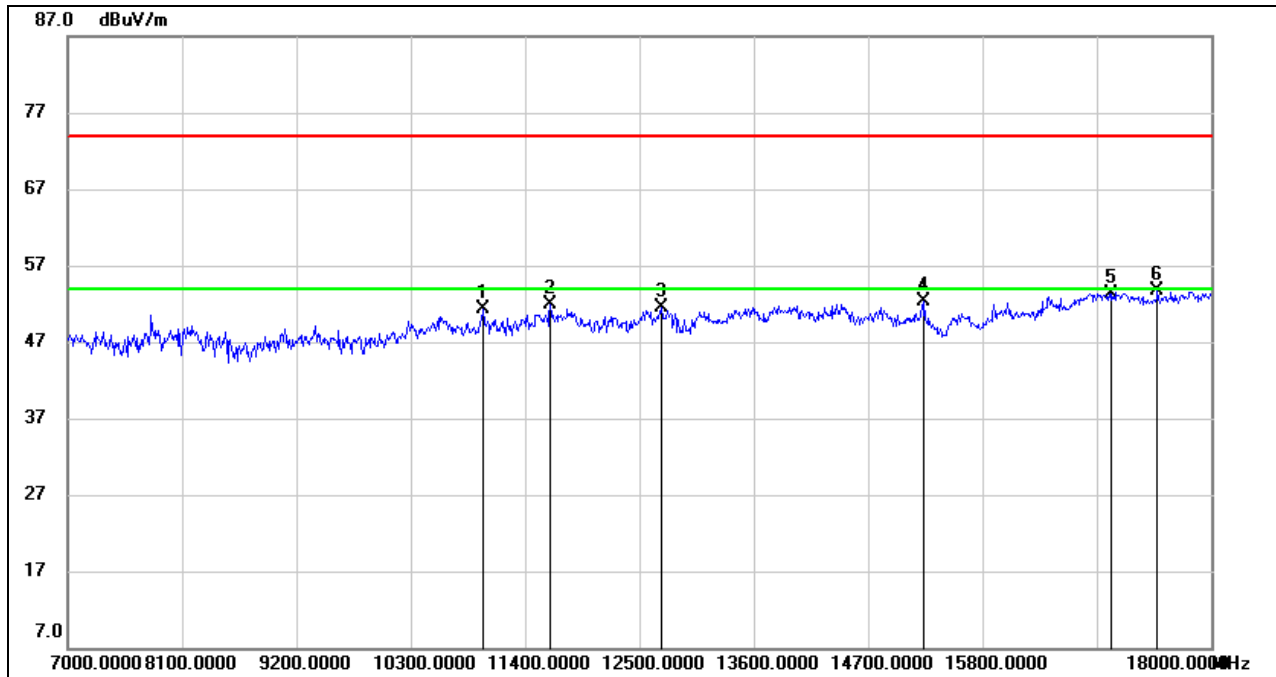


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	59.96	-14.51	45.45	74.00	-28.55	peak
2	1996.000	60.94	-10.86	50.08	74.00	-23.92	peak
3	2128.000	60.54	-10.09	50.45	74.00	-23.55	peak
4	2680.000	55.78	-8.04	47.74	74.00	-26.26	peak
5	3886.000	50.06	-4.18	45.88	74.00	-28.12	peak
6	5825.000	49.20	3.39	52.59	74.00	-21.41	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**HORIZONTAL RESULTS**  
**7-18GHz**

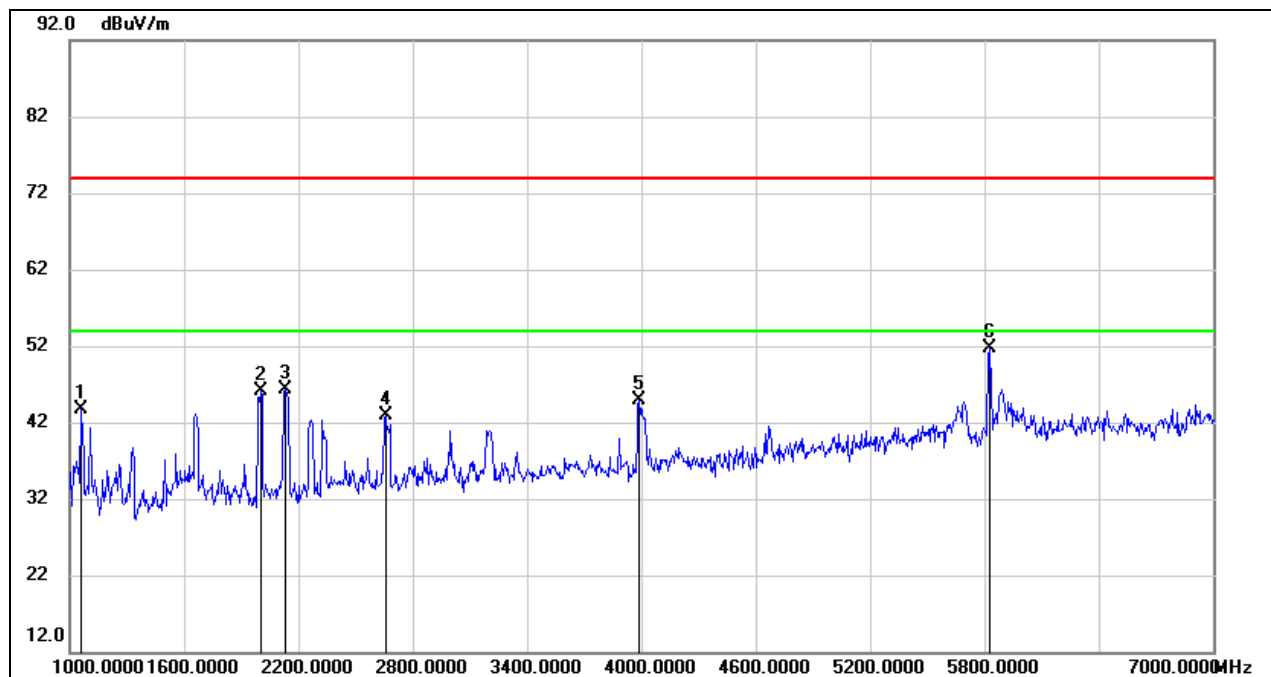


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10993.000	37.76	13.59	51.35	74.00	-22.65	peak
2	11642.000	37.49	14.42	51.91	74.00	-22.09	peak
3	12709.000	36.50	14.95	51.45	74.00	-22.55	peak
4	15239.000	36.26	16.02	52.28	74.00	-21.72	peak
5	17043.000	32.22	21.16	53.38	74.00	-20.62	peak
6	17483.000	32.01	21.65	53.66	74.00	-20.34	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**1-7GHz**

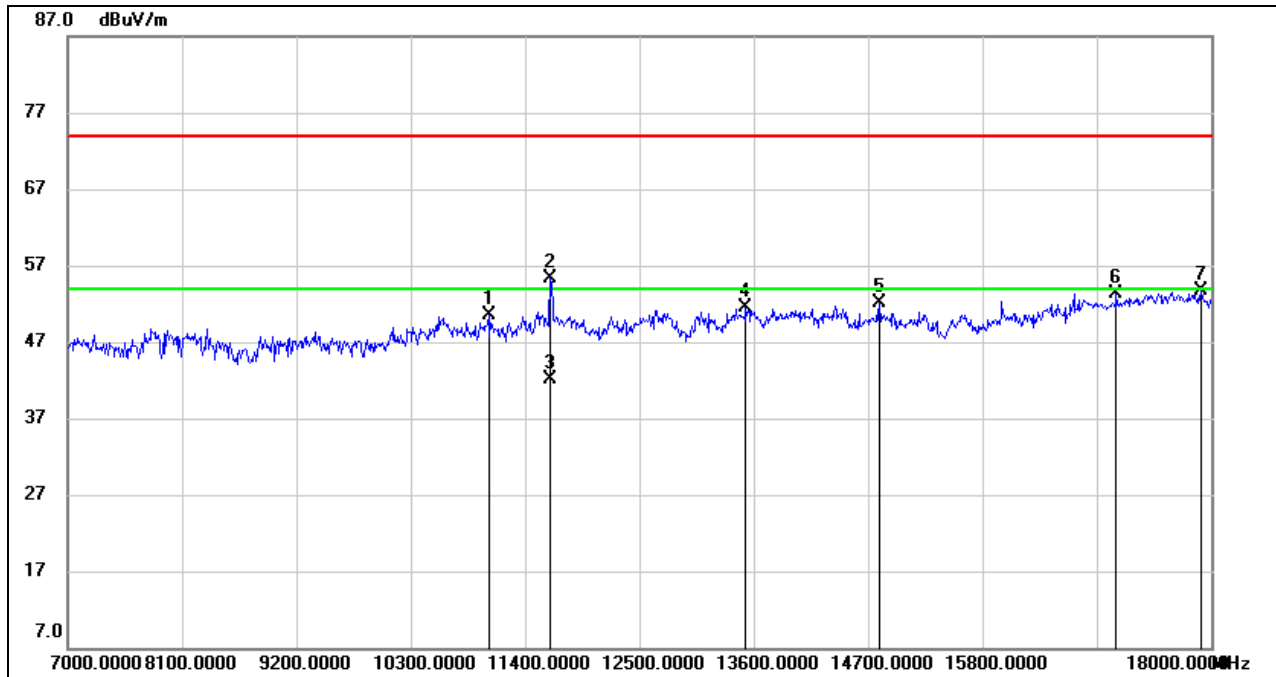


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	58.16	-14.51	43.65	74.00	-30.35	peak
2	2002.000	56.95	-10.85	46.10	74.00	-27.90	peak
3	2134.000	56.46	-10.07	46.39	74.00	-27.61	peak
4	2656.000	51.17	-8.21	42.96	74.00	-31.04	peak
5	3988.000	49.01	-4.08	44.93	74.00	-29.07	peak
6	5825.000	48.39	3.39	51.78	74.00	-22.22	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**7-18GHz**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11048.000	36.79	13.67	50.46	74.00	-23.54	peak
2	11642.000	40.84	14.42	55.26	74.00	-18.74	peak
3	11642.000	27.63	14.42	42.05	54.00	-11.95	AVG
4	13523.000	35.27	16.28	51.55	74.00	-22.45	peak
5	14810.000	36.01	16.12	52.13	74.00	-21.87	peak
6	17087.000	32.12	21.26	53.38	74.00	-20.62	peak
7	17901.000	30.22	23.39	53.61	74.00	-20.39	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



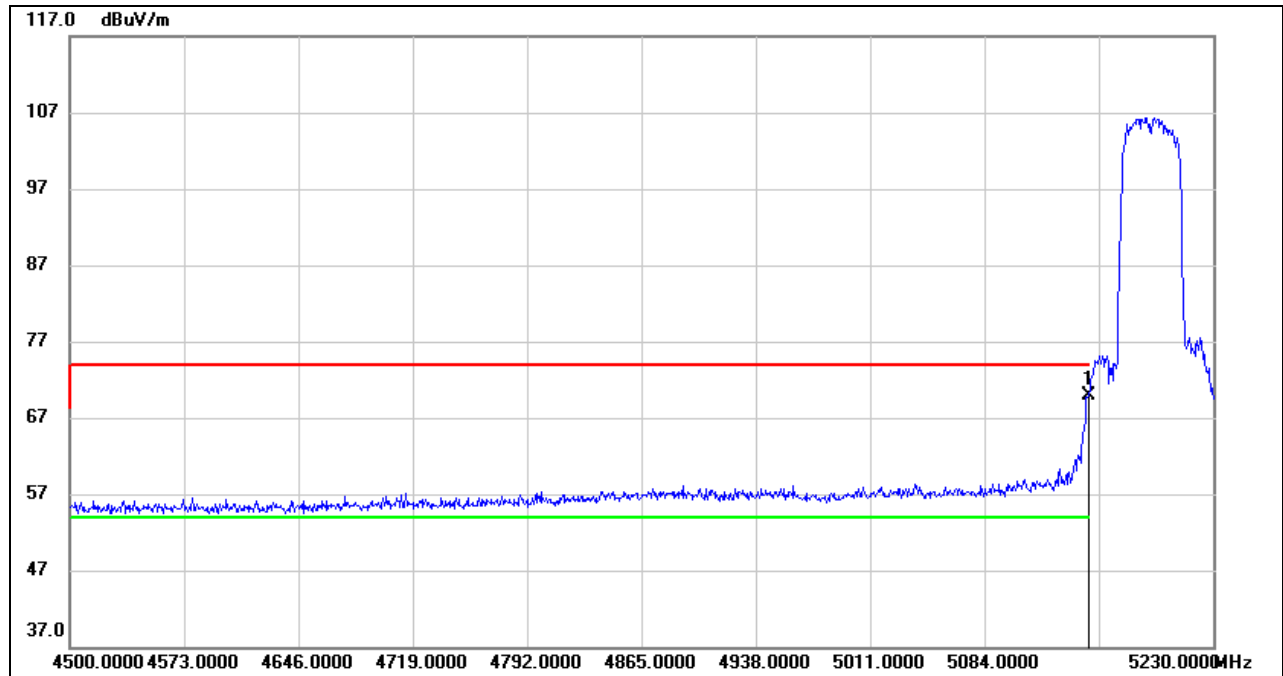
### 8.3. 802.11ac VHT40 MIMO MODE

#### MIMO MODE (WORST-CASE CONFIGURATION)

##### 8.3.1. UNII-1 BAND

#### RESTRICTED BANDEDGE LOW CHANNEL

#### HORIZONTAL RESULTS PEAK



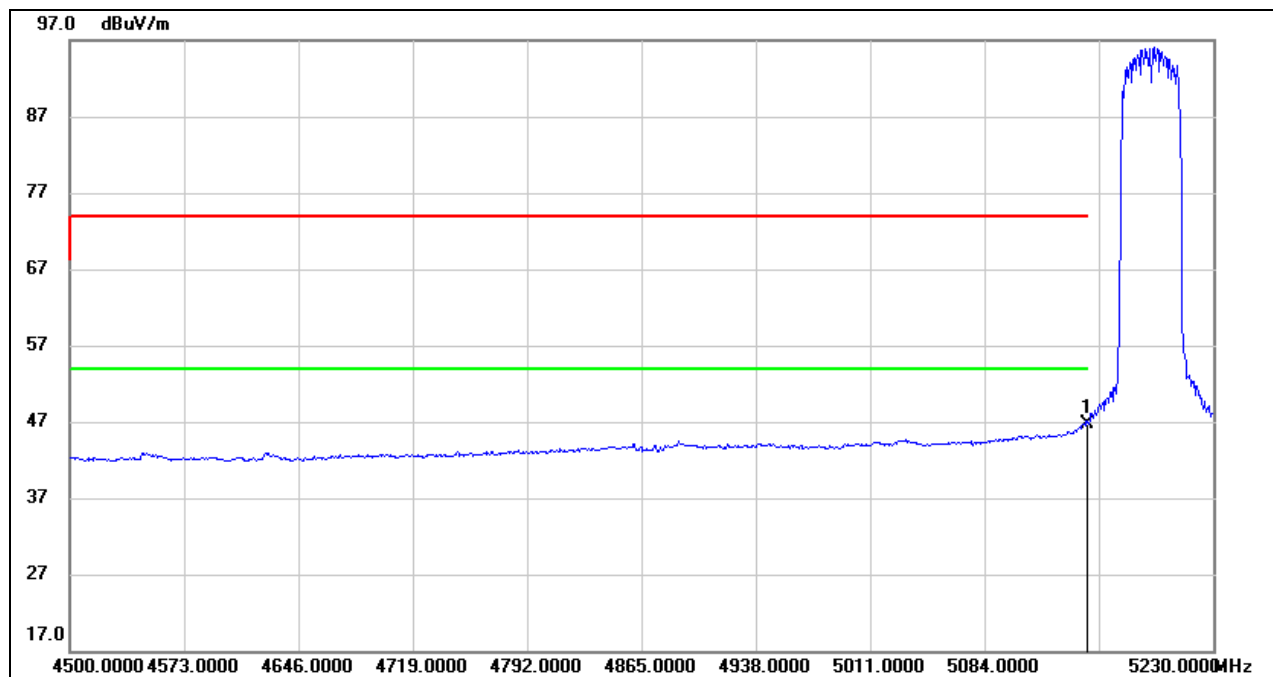
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	29.52	40.46	69.98	74.00	-4.02	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.





**AVG**

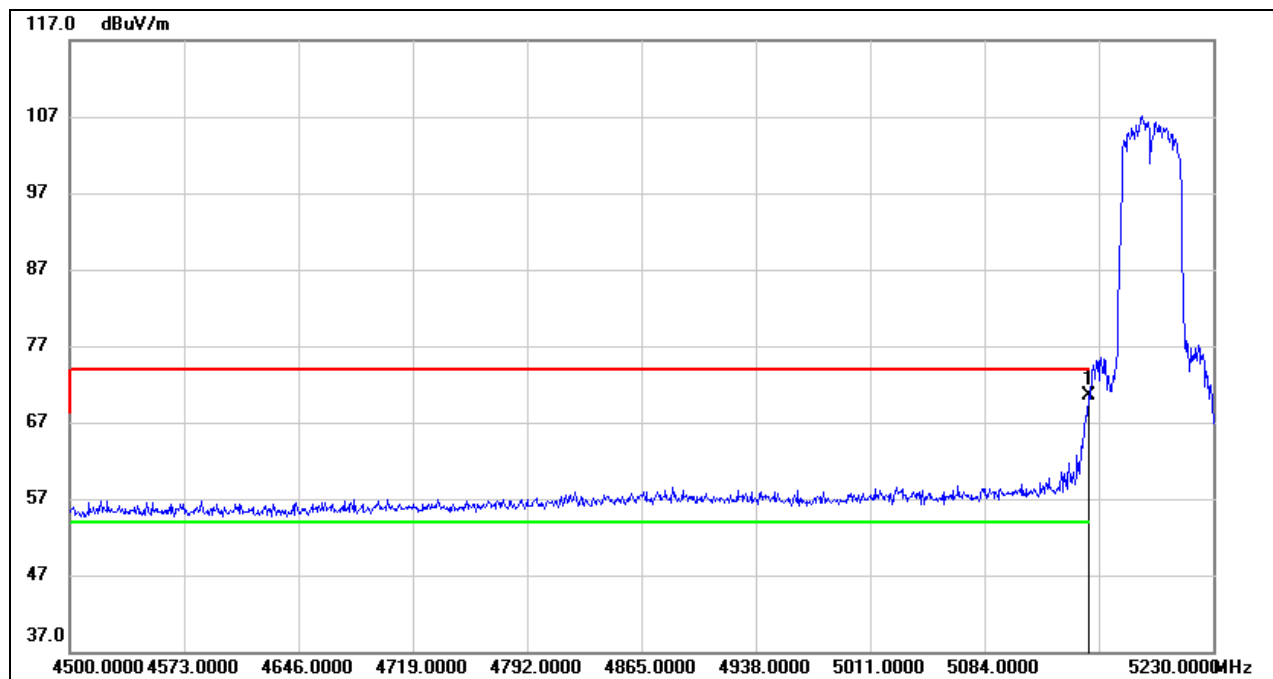


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	6.26	40.46	46.72	54.00	-7.28	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/T_{on}$  where:  $t_{on}$  is transmit duration.  
3. For duty cycle, please refer to clause 7.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**VERTICAL RESULTS**  
**PEAK**

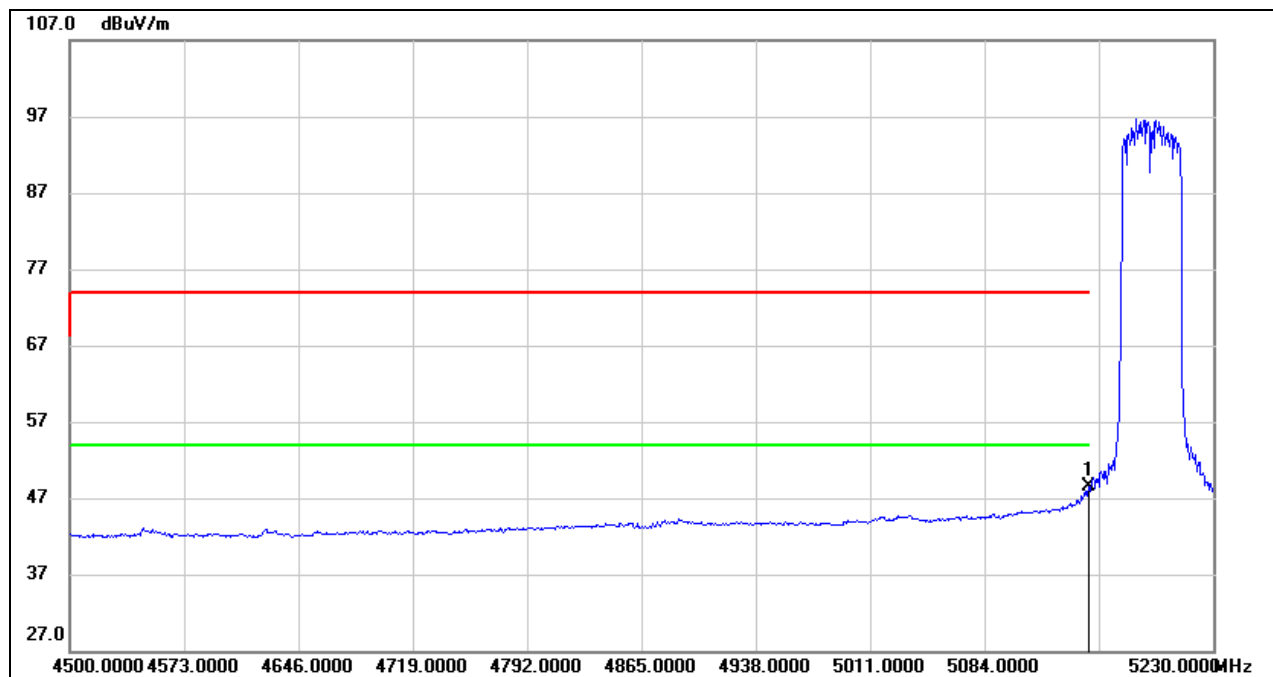


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	30.06	40.46	70.52	74.00	-3.48	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



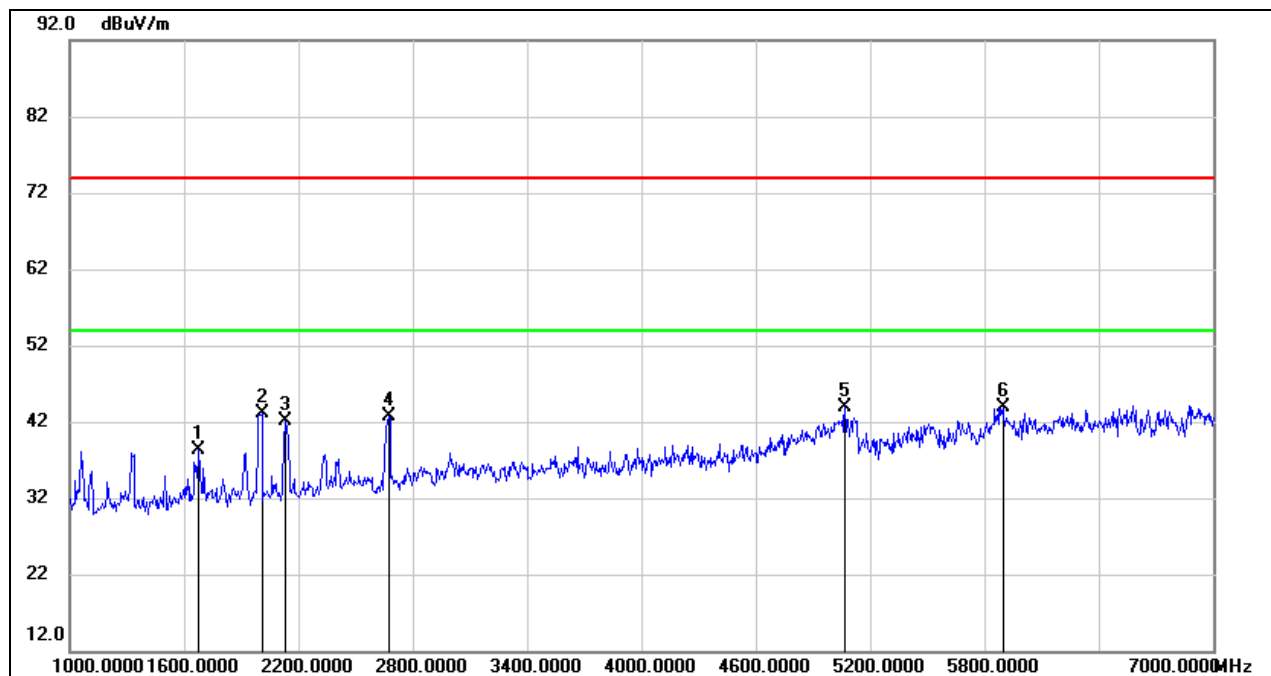
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	8.05	40.46	48.51	54.00	-5.49	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/T_{on}$  where:  $t_{on}$  is transmit duration.  
3. For duty cycle, please refer to clause 7.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz

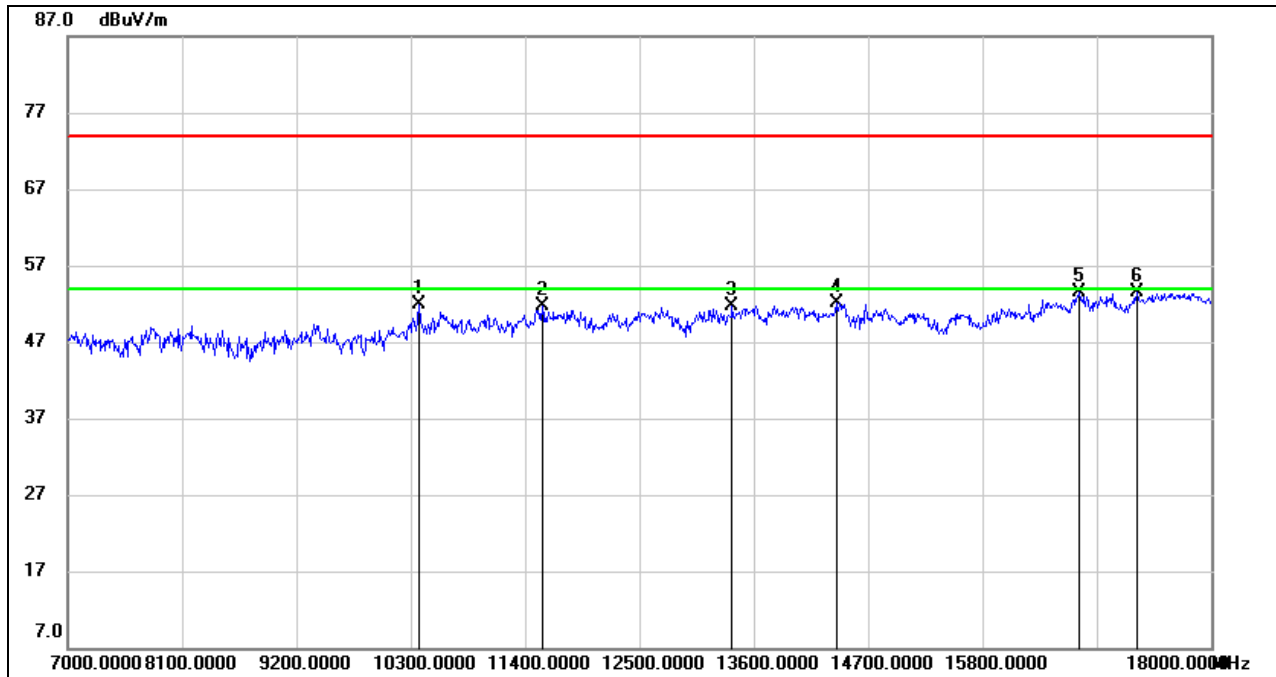


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1678.000	50.33	-12.05	38.28	74.00	-35.72	peak
2	2008.000	53.94	-10.81	43.13	74.00	-30.87	peak
3	2134.000	52.10	-10.07	42.03	74.00	-31.97	peak
4	2674.000	50.70	-8.08	42.62	74.00	-31.38	peak
5	5068.000	43.93	0.07	44.00	74.00	-30.00	peak
6	5896.000	39.04	4.79	43.83	74.00	-30.17	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**HORIZONTAL RESULTS**  
**7-18GHz**

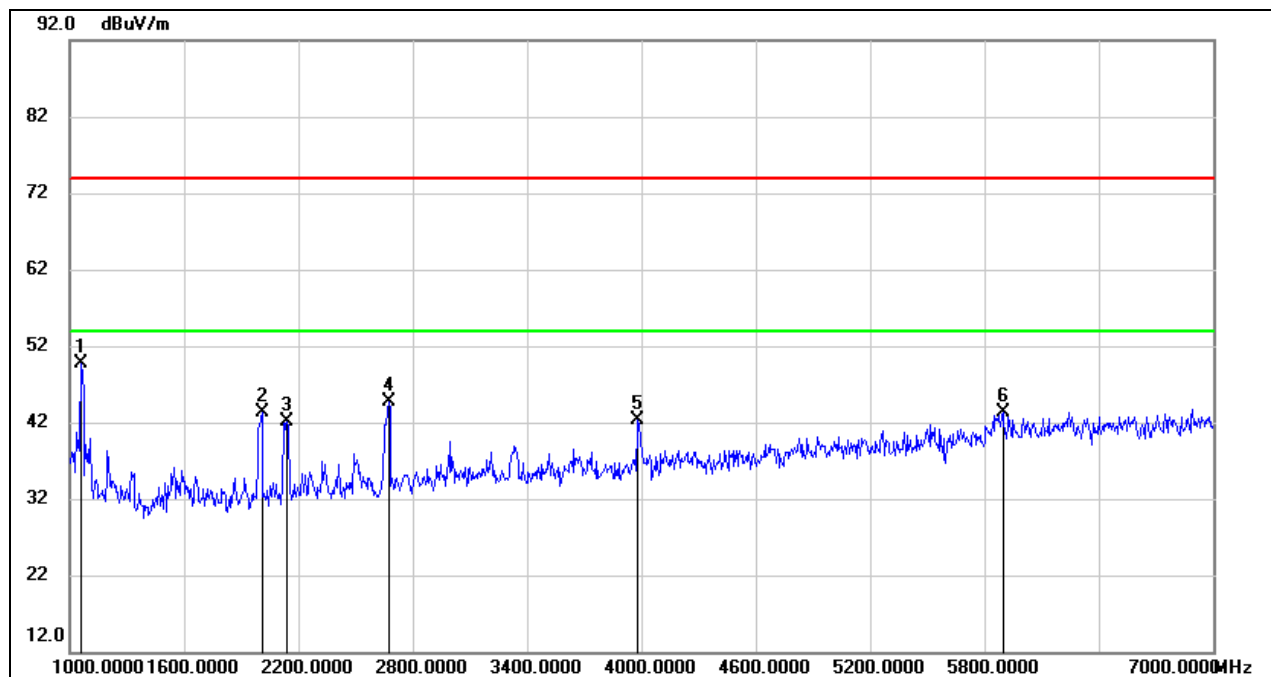


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10377.000	39.75	12.10	51.85	74.00	-22.15	peak
2	11565.000	37.18	14.56	51.74	74.00	-22.26	peak
3	13391.000	35.34	16.42	51.76	74.00	-22.24	peak
4	14392.000	35.17	16.99	52.16	74.00	-21.84	peak
5	16735.000	33.04	20.41	53.45	74.00	-20.55	peak
6	17285.000	31.41	22.09	53.50	74.00	-20.50	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**1-7GHz**

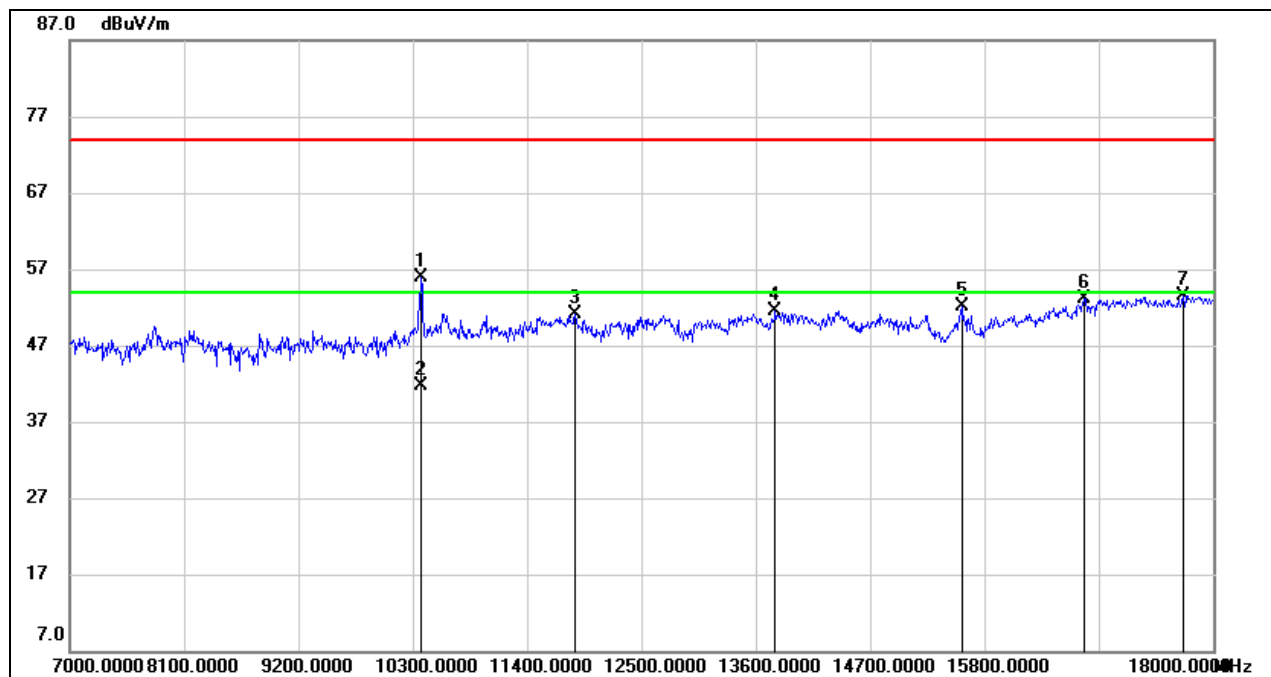


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	64.24	-14.51	49.73	74.00	-24.27	peak
2	2008.000	54.19	-10.81	43.38	74.00	-30.62	peak
3	2140.000	52.19	-10.05	42.14	74.00	-31.86	peak
4	2674.000	52.87	-8.08	44.79	74.00	-29.21	peak
5	3982.000	46.38	-4.10	42.28	74.00	-31.72	peak
6	5896.000	38.44	4.79	43.23	74.00	-30.77	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



### 7-18GHz



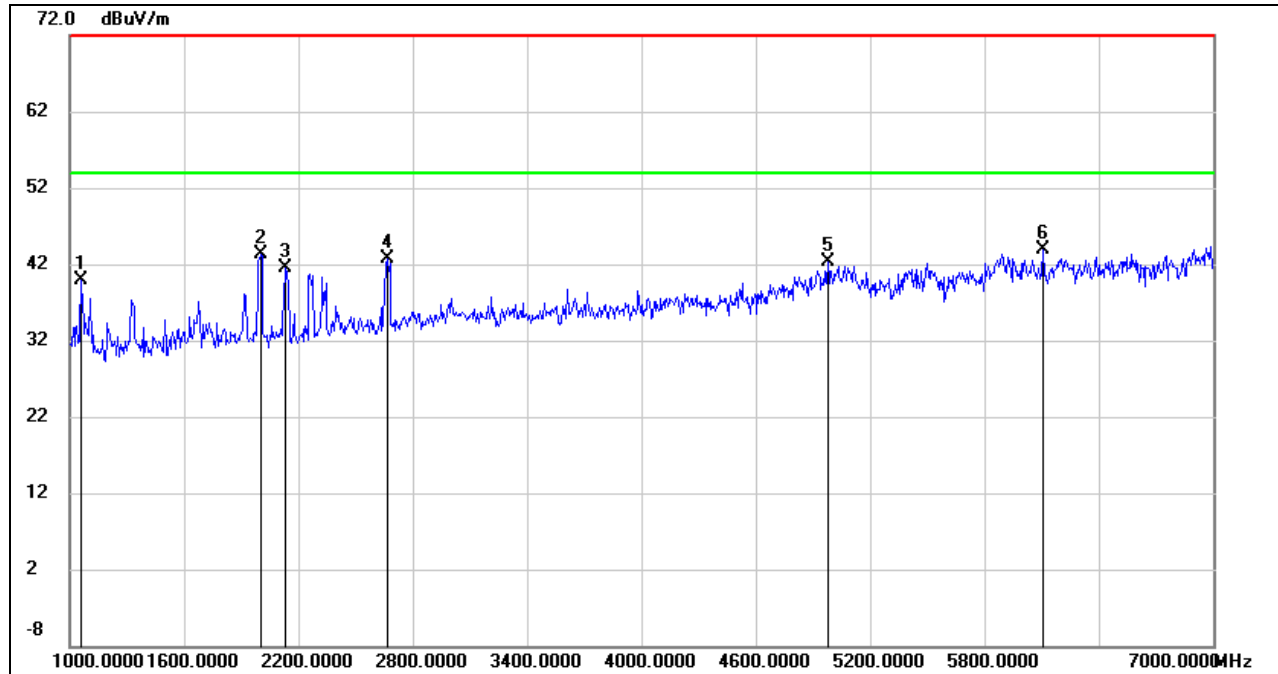
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10377.000	43.77	12.10	55.87	74.00	-18.13	peak
2	10377.000	29.56	12.10	41.66	54.00	-12.34	AVG
3	11862.000	36.54	14.47	51.01	74.00	-22.99	peak
4	13787.000	34.03	17.43	51.46	74.00	-22.54	peak
5	15580.000	35.13	16.92	52.05	74.00	-21.95	peak
6	16757.000	32.66	20.45	53.11	74.00	-20.89	peak
7	17714.000	30.88	22.71	53.59	74.00	-20.41	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz



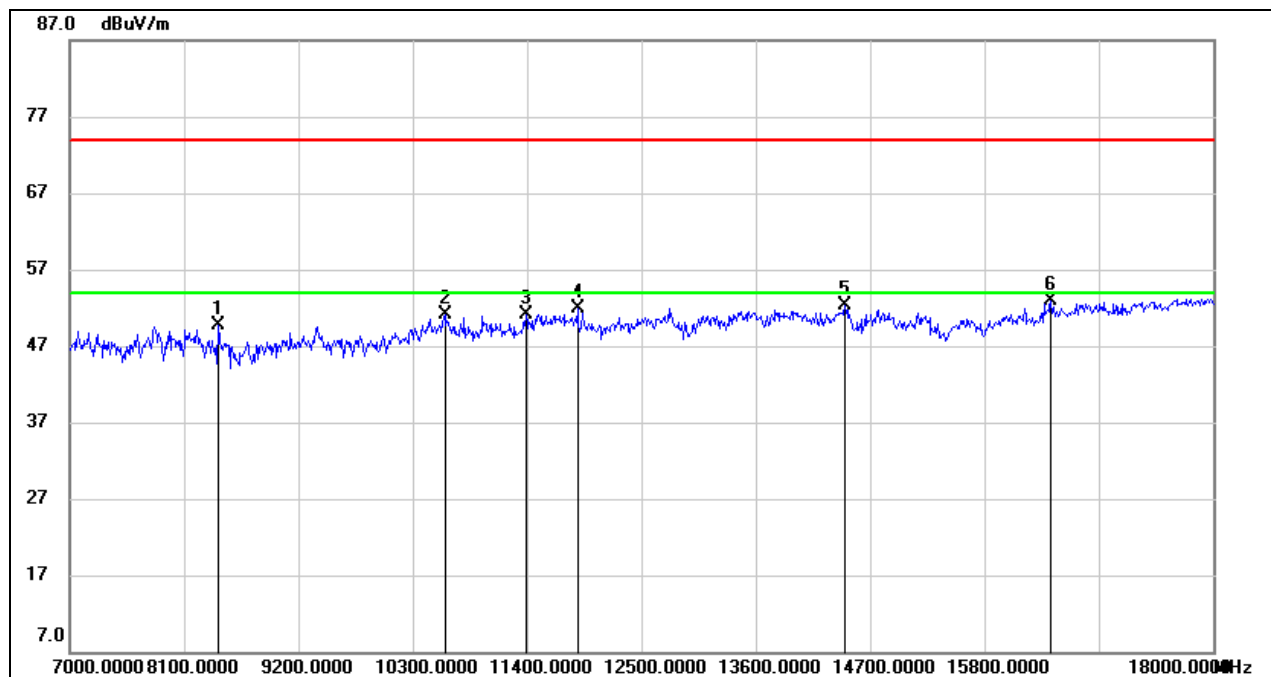
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	54.33	-14.51	39.82	74.00	-34.18	peak
2	2002.000	54.06	-10.85	43.21	74.00	-30.79	peak
3	2134.000	51.54	-10.07	41.47	74.00	-32.53	peak
4	2668.000	50.80	-8.13	42.67	74.00	-31.33	peak
5	4978.000	42.46	-0.23	42.23	74.00	-31.77	peak
6	6106.000	40.52	3.42	43.94	74.00	-30.06	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.





**HORIZONTAL RESULTS**  
**7-18GHz**

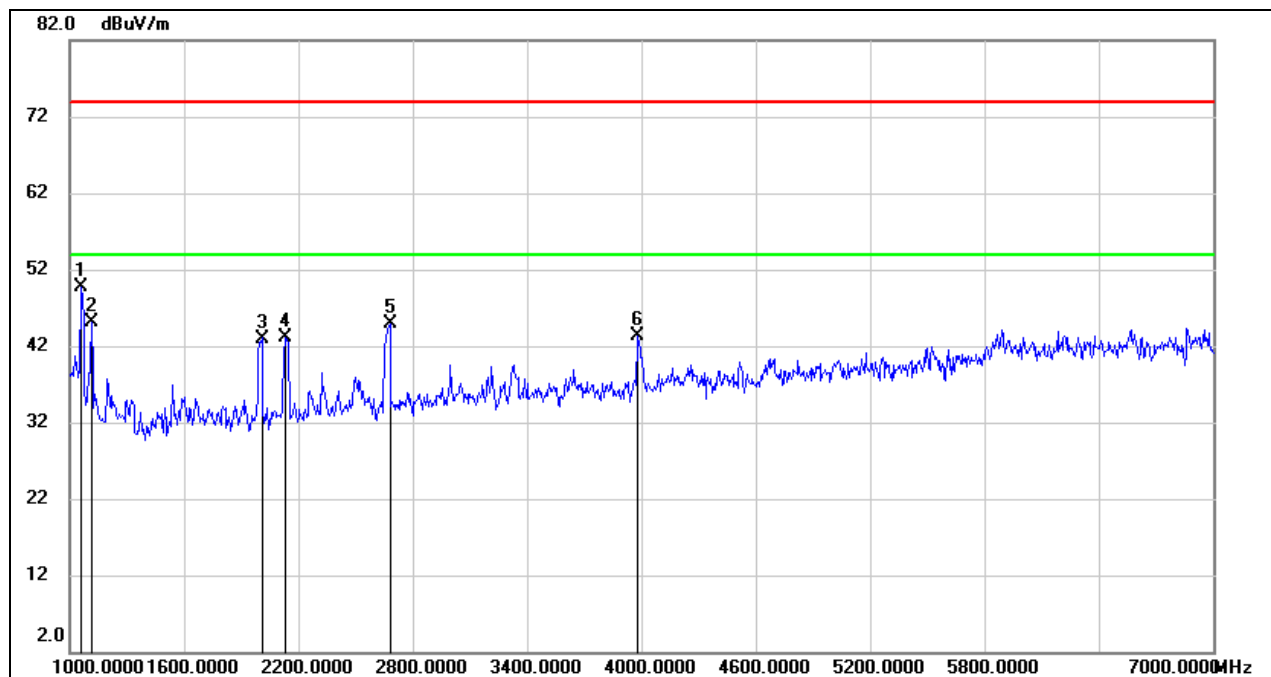


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8430.000	40.43	9.26	49.69	74.00	-24.31	peak
2	10608.000	37.71	13.34	51.05	74.00	-22.95	peak
3	11389.000	37.37	13.76	51.13	74.00	-22.87	peak
4	11884.000	37.31	14.51	51.82	74.00	-22.18	peak
5	14458.000	35.41	16.91	52.32	74.00	-21.68	peak
6	16438.000	33.42	19.56	52.98	74.00	-21.02	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**1-7GHz**

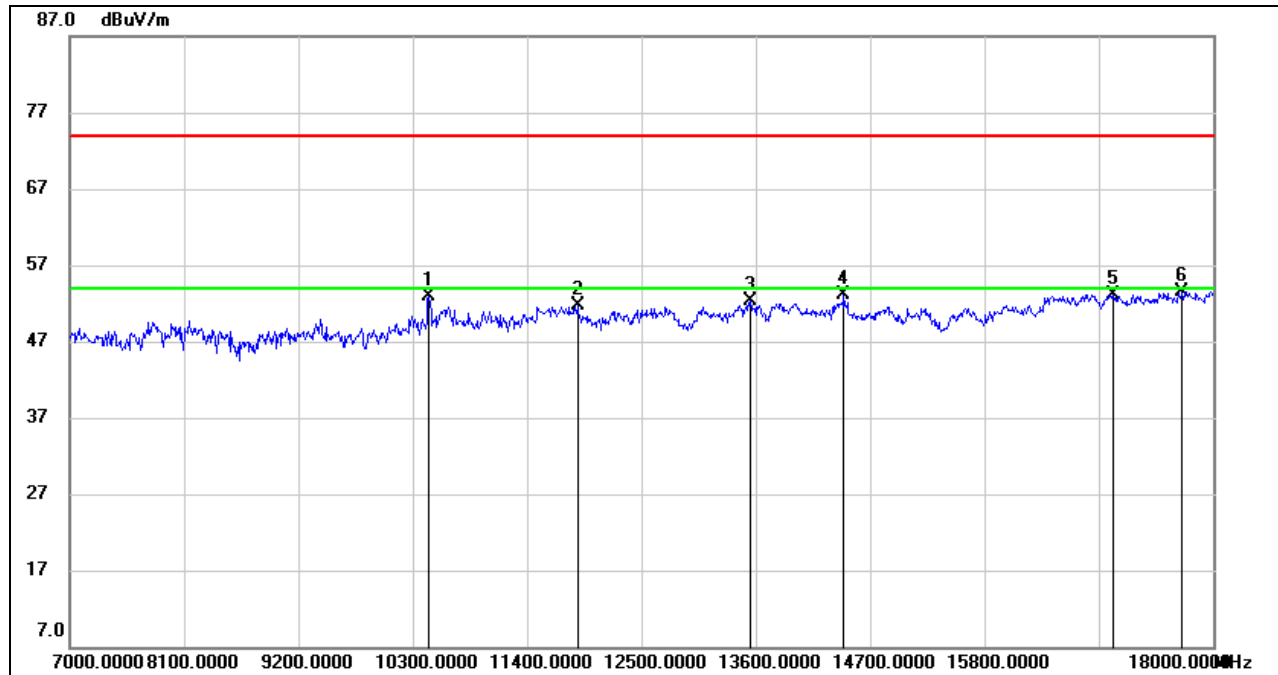


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	64.26	-14.51	49.75	74.00	-24.25	peak
2	1114.000	59.33	-14.29	45.04	74.00	-28.96	peak
3	2008.000	53.81	-10.81	43.00	74.00	-31.00	peak
4	2134.000	53.08	-10.07	43.01	74.00	-30.99	peak
5	2680.000	52.98	-8.04	44.94	74.00	-29.06	peak
6	3982.000	47.37	-4.10	43.27	74.00	-30.73	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



### 7-18GHz



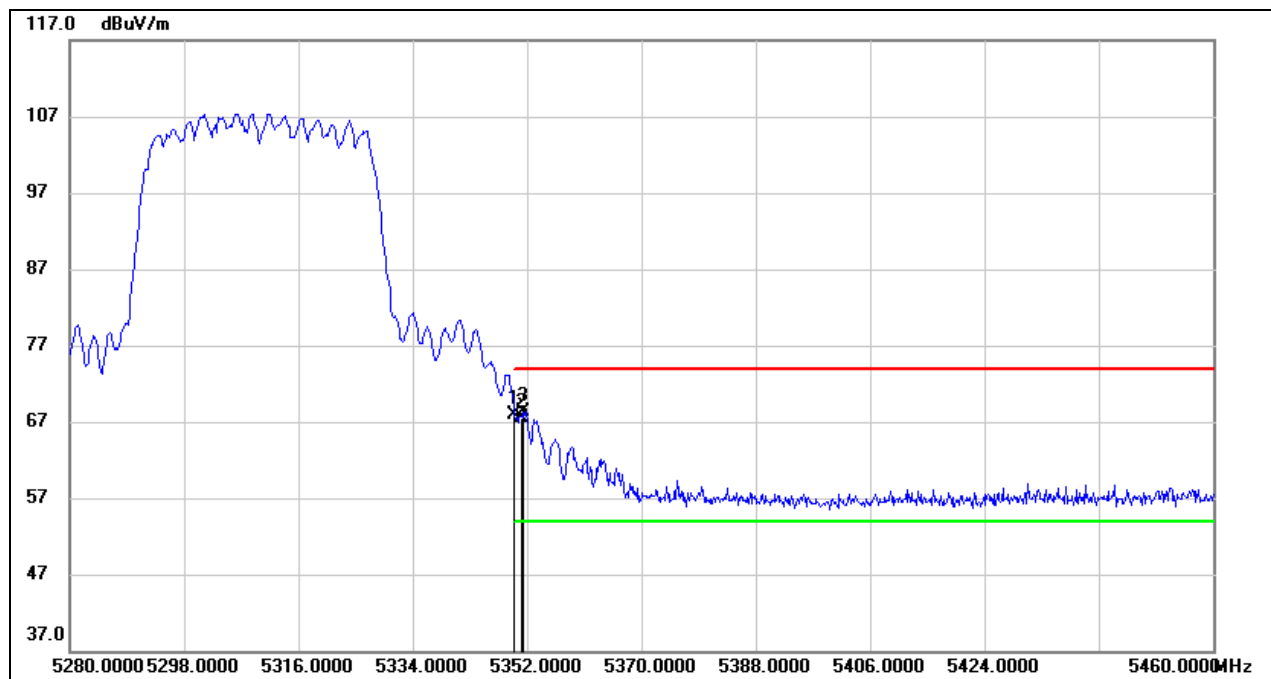
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10454.000	40.79	12.19	52.98	74.00	-21.02	peak
2	11884.000	37.22	14.51	51.73	74.00	-22.27	peak
3	13545.000	35.94	16.33	52.27	74.00	-21.73	peak
4	14447.000	36.18	16.93	53.11	74.00	-20.89	peak
5	17032.000	32.02	21.15	53.17	74.00	-20.83	peak
6	17703.000	30.85	22.62	53.47	74.00	-20.53	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



8.3.2. UNII-2A BAND  
**RESTRICTED BANDEDGE HIGH CHANNEL**

**HORIZONTAL RESULTS**  
**PEAK**

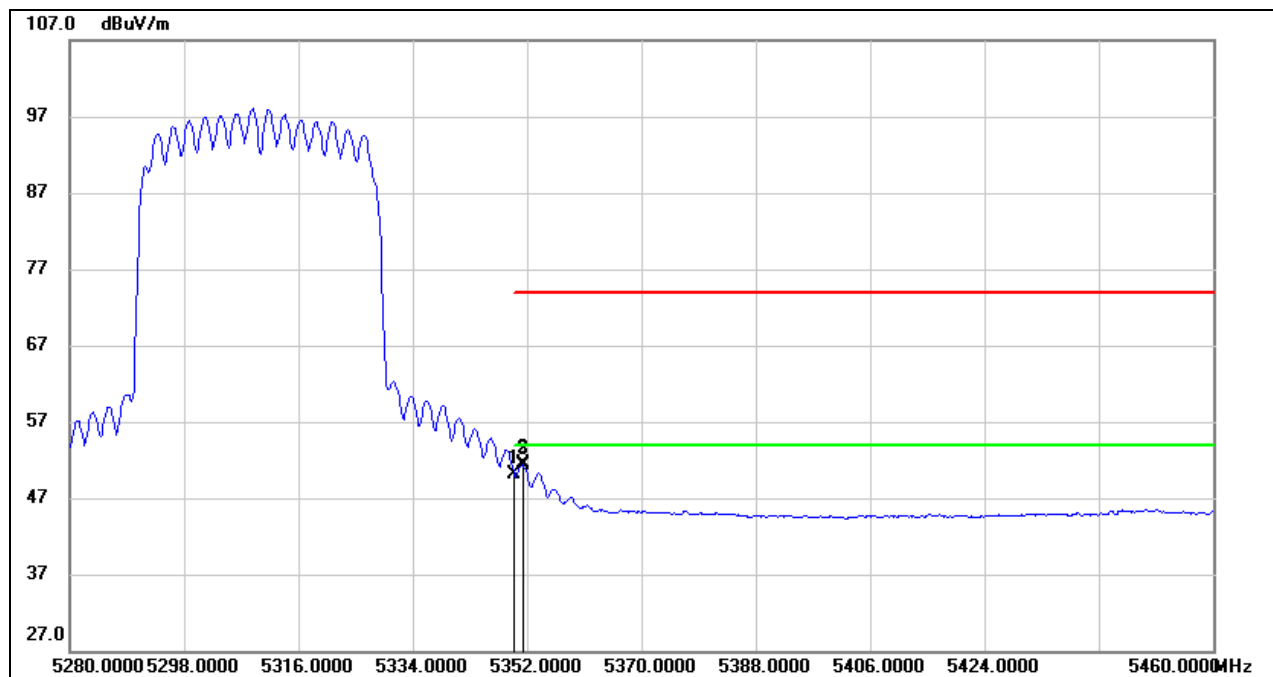


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	27.20	40.64	67.84	74.00	-6.16	peak
2	5351.280	26.78	40.63	67.41	74.00	-6.59	peak
3	5351.460	27.73	40.63	68.36	74.00	-5.64	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**

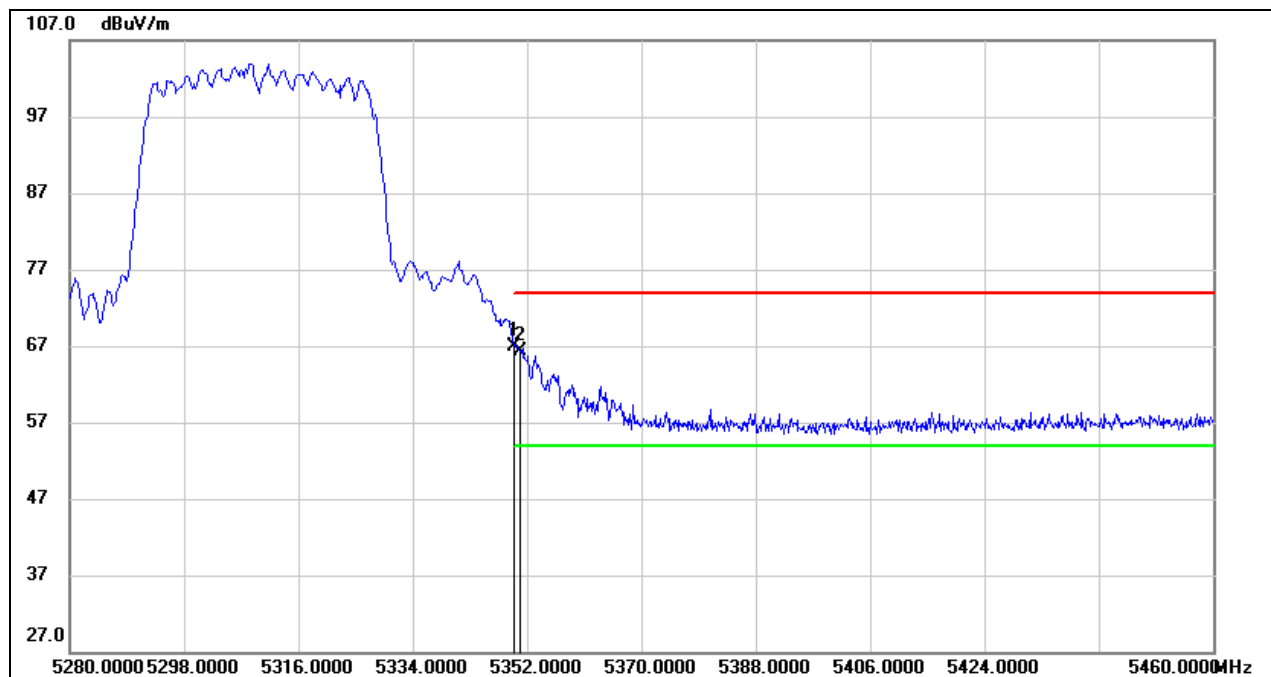


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	9.42	40.64	50.06	54.00	-3.94	AVG
2	5351.280	10.86	40.63	51.49	54.00	-2.51	AVG
3	5351.460	10.68	40.63	51.31	54.00	-2.69	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG: VBW=1/Ton where: ton is transmit duration.  
3. For duty cycle, please refer to clause 7.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**VERTICAL RESULTS**  
**PEAK**

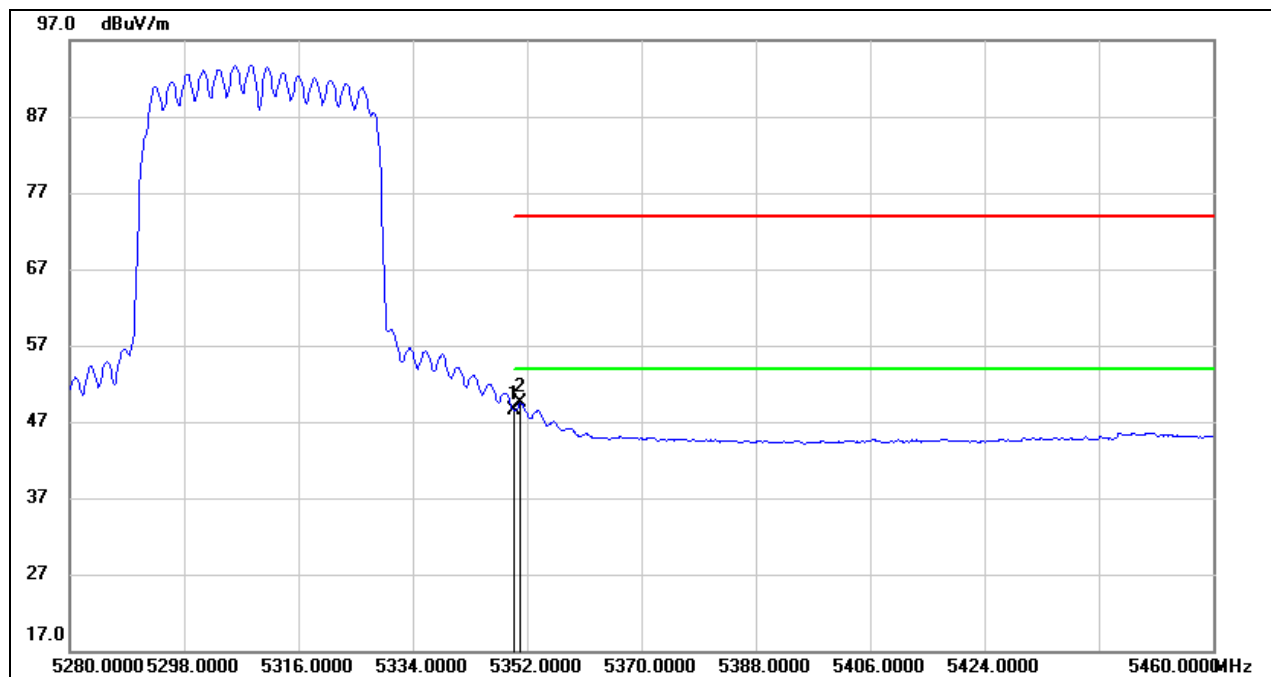


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	26.17	40.64	66.81	74.00	-7.19	peak
2	5350.920	25.65	40.64	66.29	74.00	-7.71	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



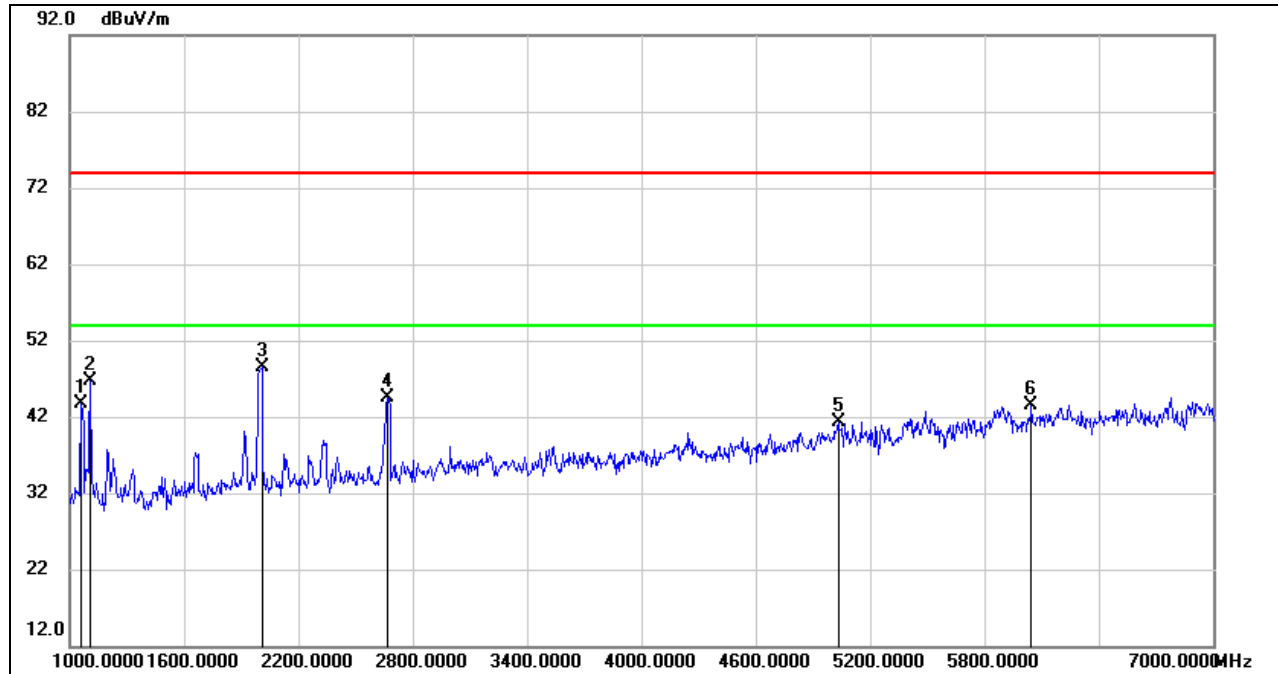
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	7.87	40.64	48.51	54.00	-5.49	AVG
2	5350.920	8.81	40.64	49.45	54.00	-4.55	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG: VBW=1/Ton where: ton is transmit duration.  
3. For duty cycle, please refer to clause 7.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz



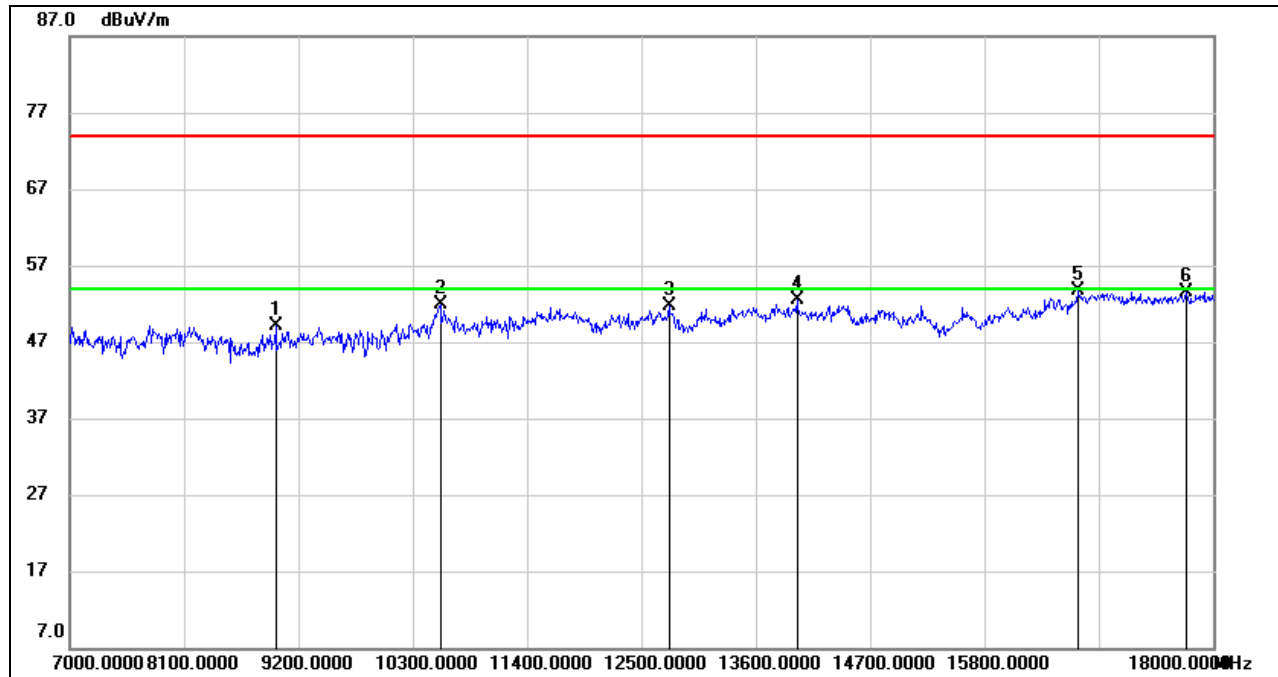
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	58.24	-14.51	43.73	74.00	-30.27	peak
2	1108.000	61.04	-14.35	46.69	74.00	-27.31	peak
3	2008.000	59.36	-10.81	48.55	74.00	-25.45	peak
4	2668.000	52.65	-8.13	44.52	74.00	-29.48	peak
5	5032.000	41.20	0.01	41.21	74.00	-32.79	peak
6	6046.000	40.26	3.33	43.59	74.00	-30.41	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.





**HORIZONTAL RESULTS**  
**7-18GHz**

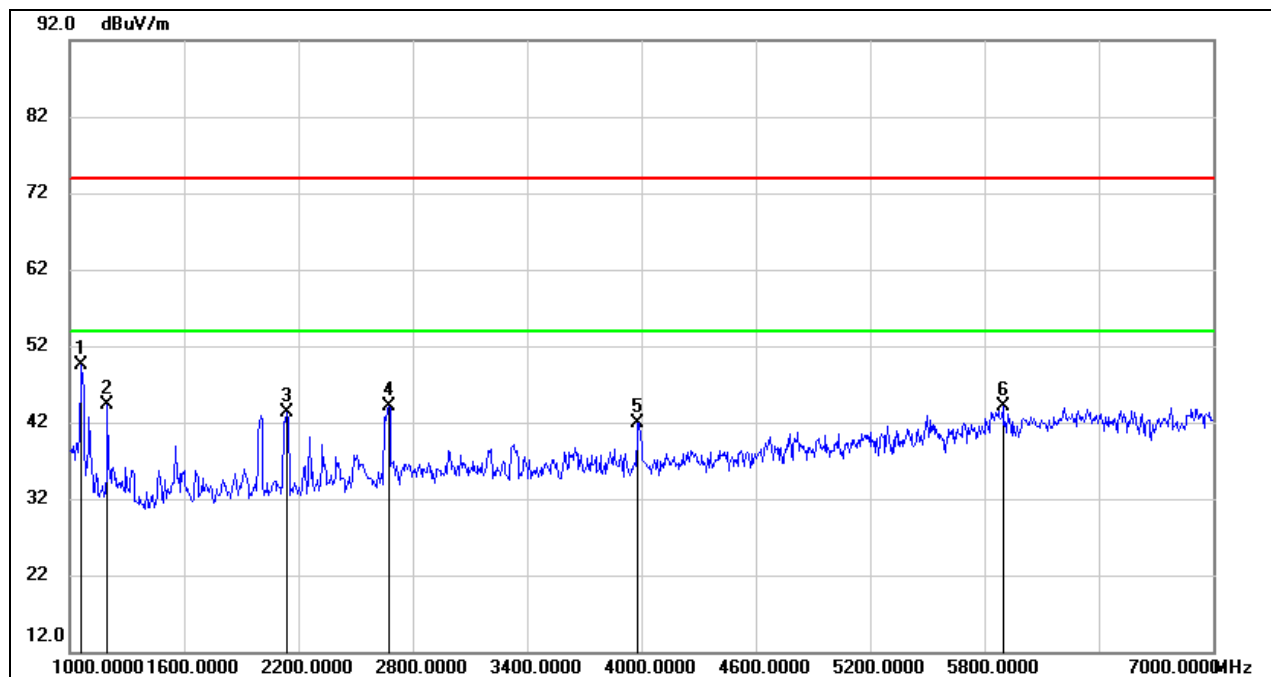


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8980.000	38.72	10.40	49.12	74.00	-24.88	peak
2	10564.000	38.93	13.00	51.93	74.00	-22.07	peak
3	12764.000	35.85	15.84	51.69	74.00	-22.31	peak
4	13996.000	35.70	16.77	52.47	74.00	-21.53	peak
5	16702.000	33.34	20.35	53.69	74.00	-20.31	peak
6	17736.000	30.65	22.90	53.55	74.00	-20.45	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**1-7GHz**

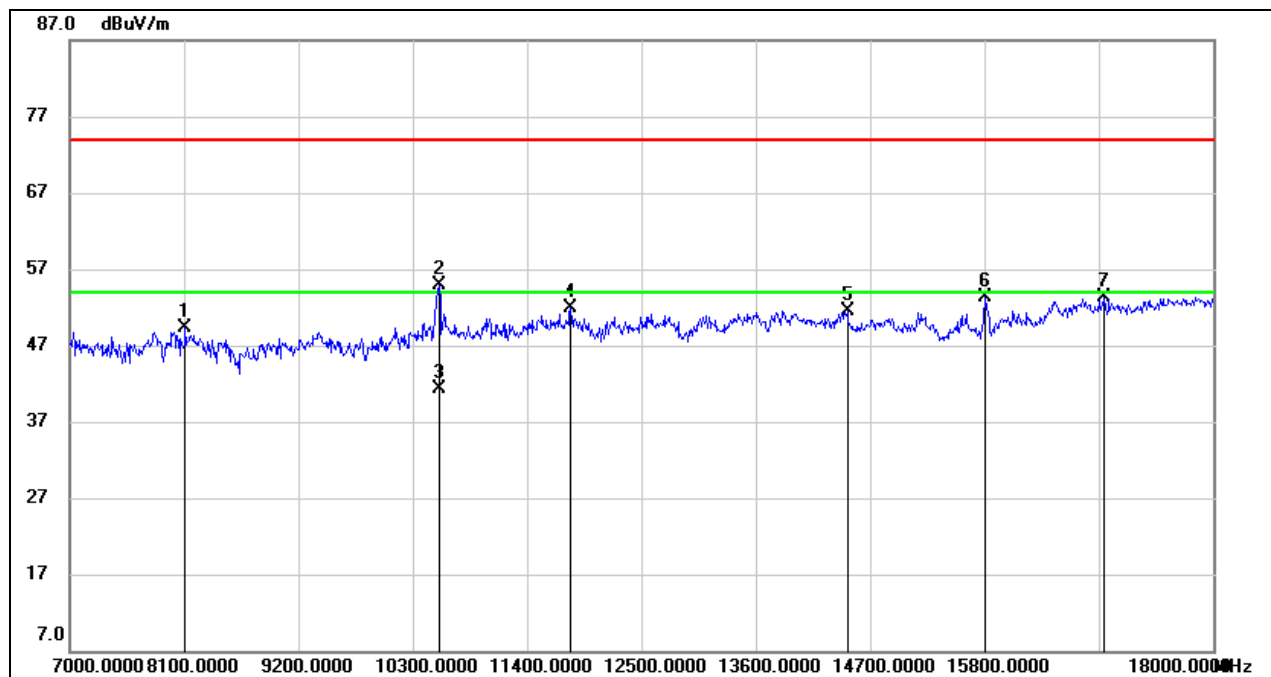


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	63.93	-14.51	49.42	74.00	-24.58	peak
2	1198.000	57.83	-13.52	44.31	74.00	-29.69	peak
3	2140.000	53.31	-10.05	43.26	74.00	-30.74	peak
4	2674.000	52.12	-8.08	44.04	74.00	-29.96	peak
5	3982.000	46.06	-4.10	41.96	74.00	-32.04	peak
6	5896.000	39.37	4.79	44.16	74.00	-29.84	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



### 7-18GHz



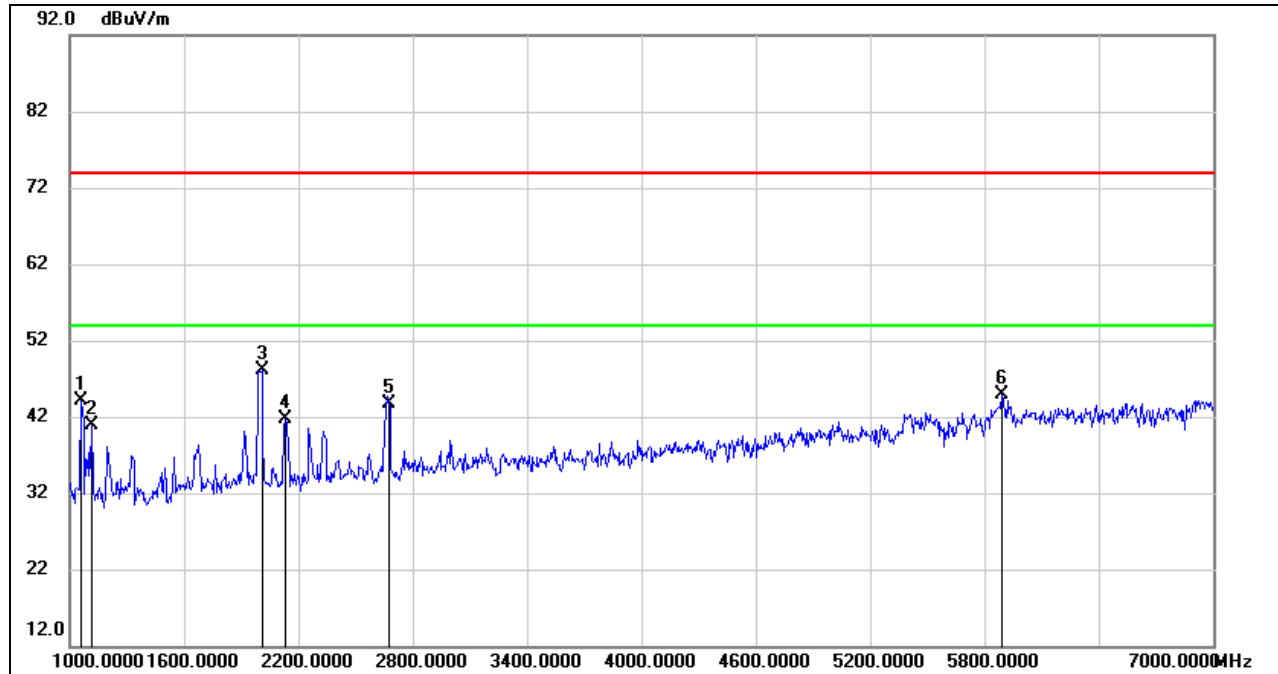
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8111.000	39.62	9.72	49.34	74.00	-24.66	peak
2	10553.000	42.06	12.87	54.93	74.00	-19.07	peak
3	10553.000	28.46	12.87	41.33	54.00	-12.67	AVG
4	11818.000	37.56	14.41	51.97	74.00	-22.03	peak
5	14480.000	34.71	16.87	51.58	74.00	-22.42	peak
6	15800.000	36.25	17.10	53.35	74.00	-20.65	peak
7	16955.000	32.58	20.82	53.40	74.00	-20.60	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz

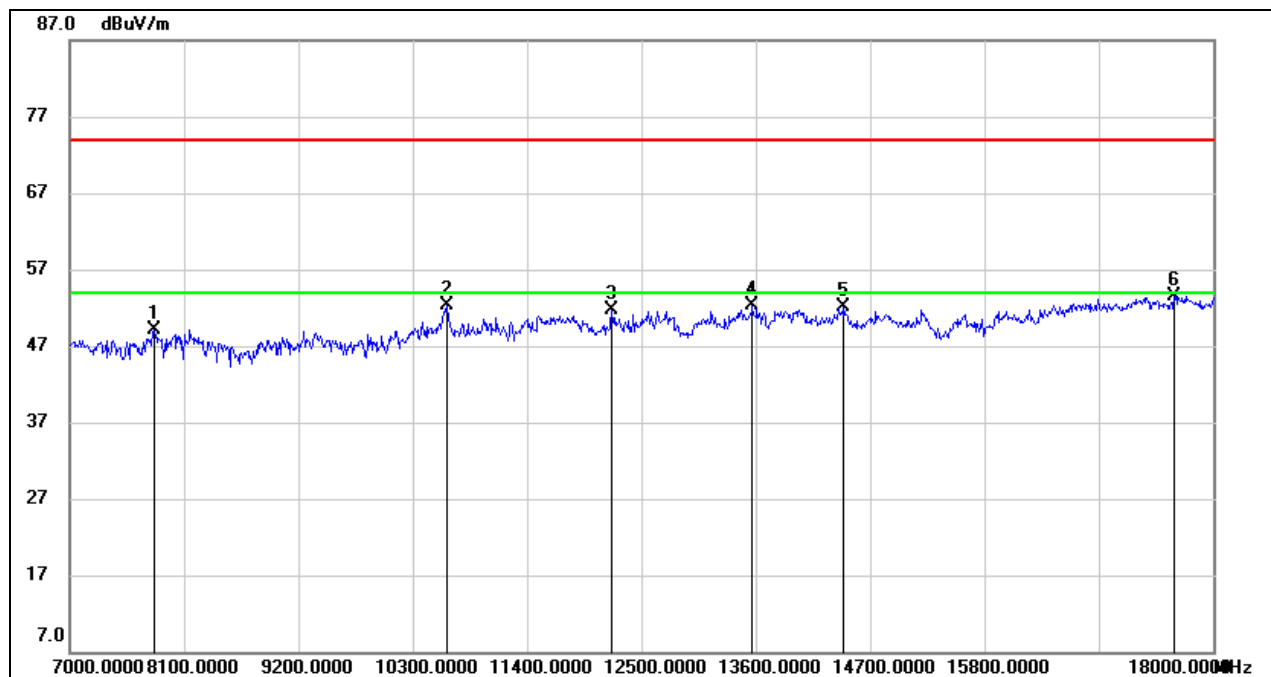


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	58.67	-14.51	44.16	74.00	-29.84	peak
2	1114.000	55.22	-14.29	40.93	74.00	-33.07	peak
3	2008.000	58.85	-10.81	48.04	74.00	-25.96	peak
4	2134.000	51.76	-10.07	41.69	74.00	-32.31	peak
5	2674.000	51.72	-8.08	43.64	74.00	-30.36	peak
6	5890.000	40.26	4.68	44.94	74.00	-29.06	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**HORIZONTAL RESULTS**  
**7-18GHz**

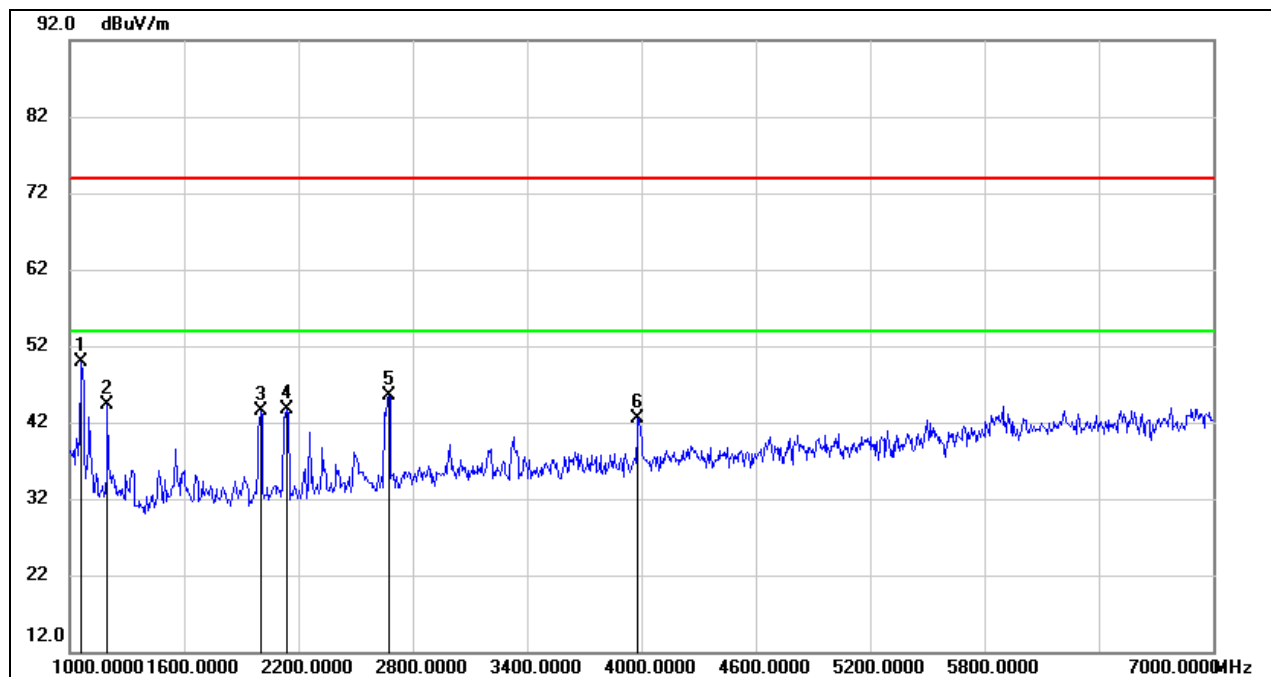


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7814.000	39.51	9.58	49.09	74.00	-24.91	peak
2	10630.000	39.14	13.20	52.34	74.00	-21.66	peak
3	12214.000	36.59	15.03	51.62	74.00	-22.38	peak
4	13567.000	35.89	16.39	52.28	74.00	-21.72	peak
5	14447.000	35.16	16.93	52.09	74.00	-21.91	peak
6	17626.000	31.42	22.15	53.57	74.00	-20.43	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**1-7GHz**

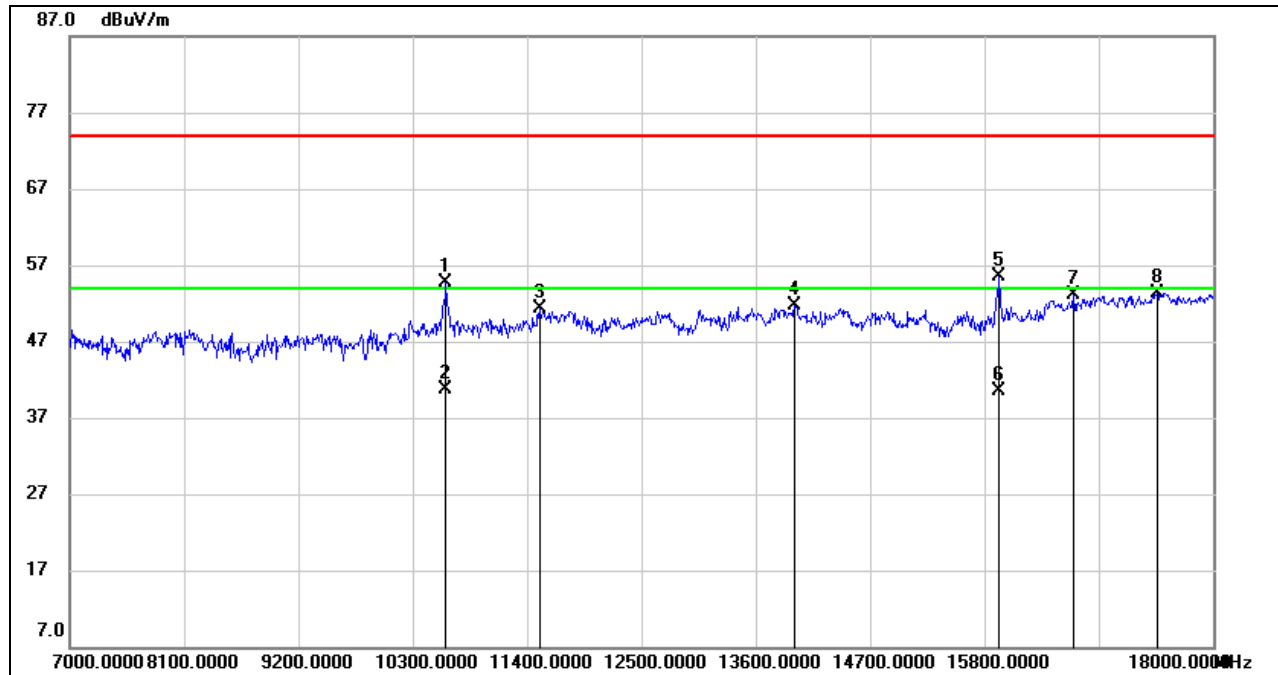


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	64.43	-14.51	49.92	74.00	-24.08	peak
2	1198.000	57.83	-13.52	44.31	74.00	-29.69	peak
3	2002.000	54.29	-10.85	43.44	74.00	-30.56	peak
4	2140.000	53.81	-10.05	43.76	74.00	-30.24	peak
5	2674.000	53.62	-8.08	45.54	74.00	-28.46	peak
6	3982.000	46.56	-4.10	42.46	74.00	-31.54	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



### 7-18GHz



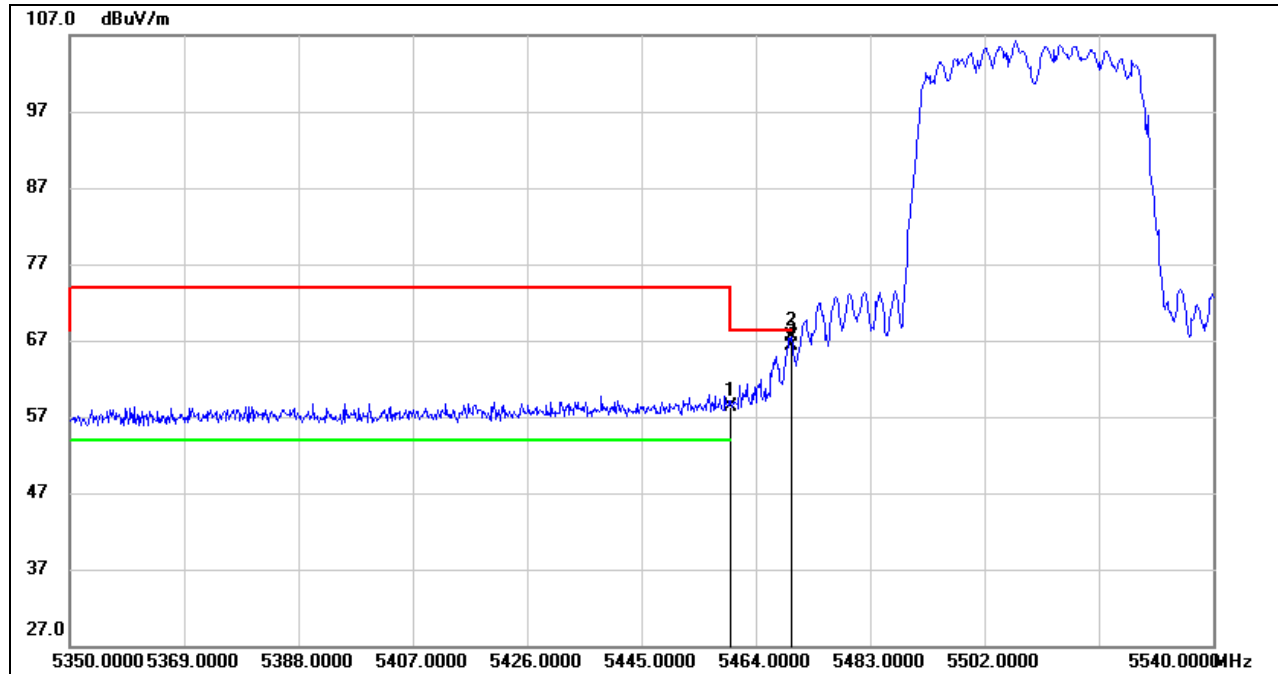
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10619.000	41.38	13.27	54.65	74.00	-19.35	peak
2	10619.000	27.46	13.27	40.73	54.00	-13.27	AVG
3	11521.000	36.73	14.48	51.21	74.00	-22.79	peak
4	13974.000	34.91	16.75	51.66	74.00	-22.34	peak
5	15943.000	37.79	17.65	55.44	74.00	-18.56	peak
6	15943.000	22.78	17.65	40.43	54.00	-13.57	AVG
7	16658.000	33.04	20.13	53.17	74.00	-20.83	peak
8	17461.000	31.71	21.69	53.40	74.00	-20.60	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



8.3.3. UNII-2C BAND  
**RESTRICTED BANDEDGE LOW CHANNEL**

**HORIZONTAL RESULTS**  
**PEAK**



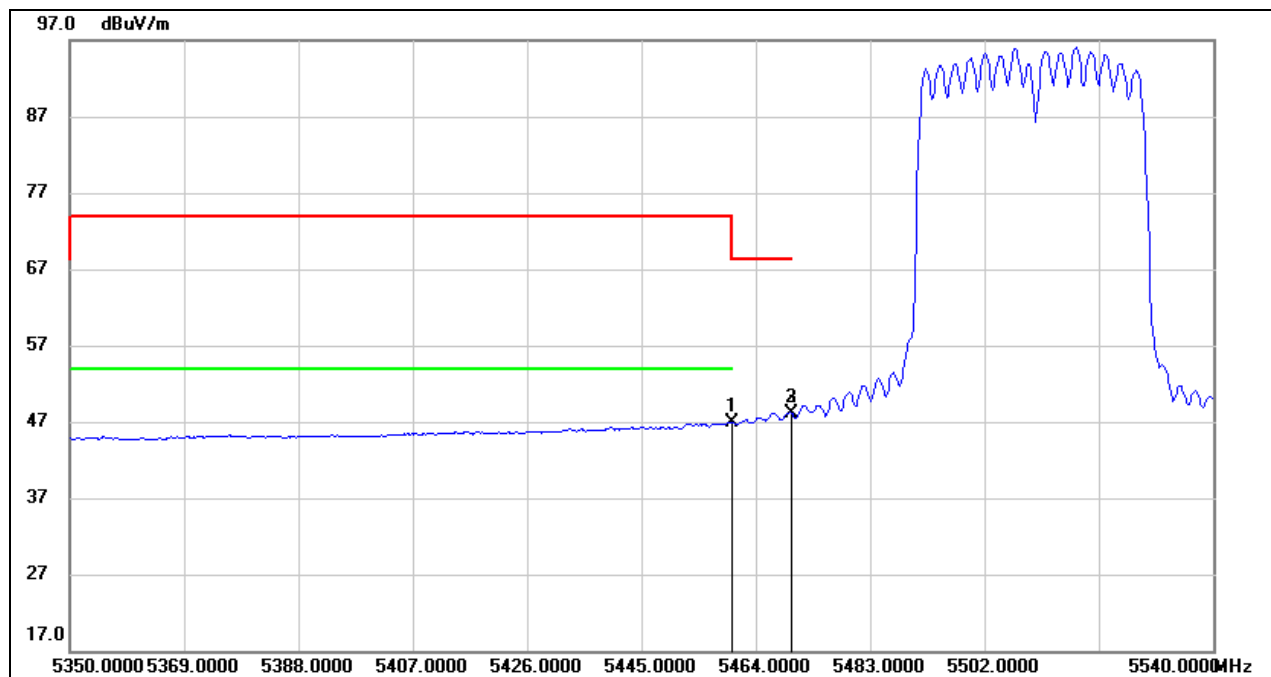
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	17.09	41.28	58.37	68.20	-9.83	peak
2	5469.890	26.05	41.41	67.46	68.20	-0.74	peak
3	5470.000	24.94	41.41	66.35	68.20	-1.85	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4.\*indicates frequency out of the restricted bands  
5. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.





**AVG**

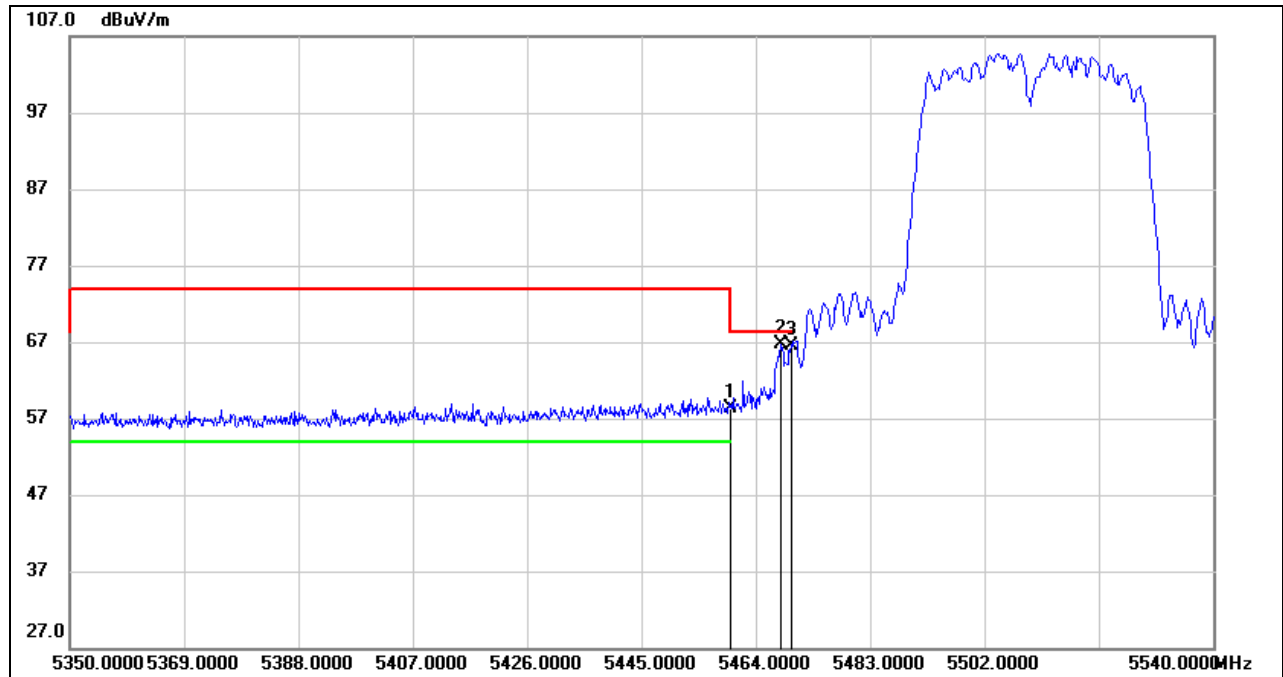


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	5.58	41.28	46.86	54.00	-7.14	AVG
2	5469.890	6.77	41.41	48.18	68.20	-20.02	AVG
3	5470.000	6.62	41.41	48.03	68.20	-20.17	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 7.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**VERTICAL RESULTS**  
**PEAK**

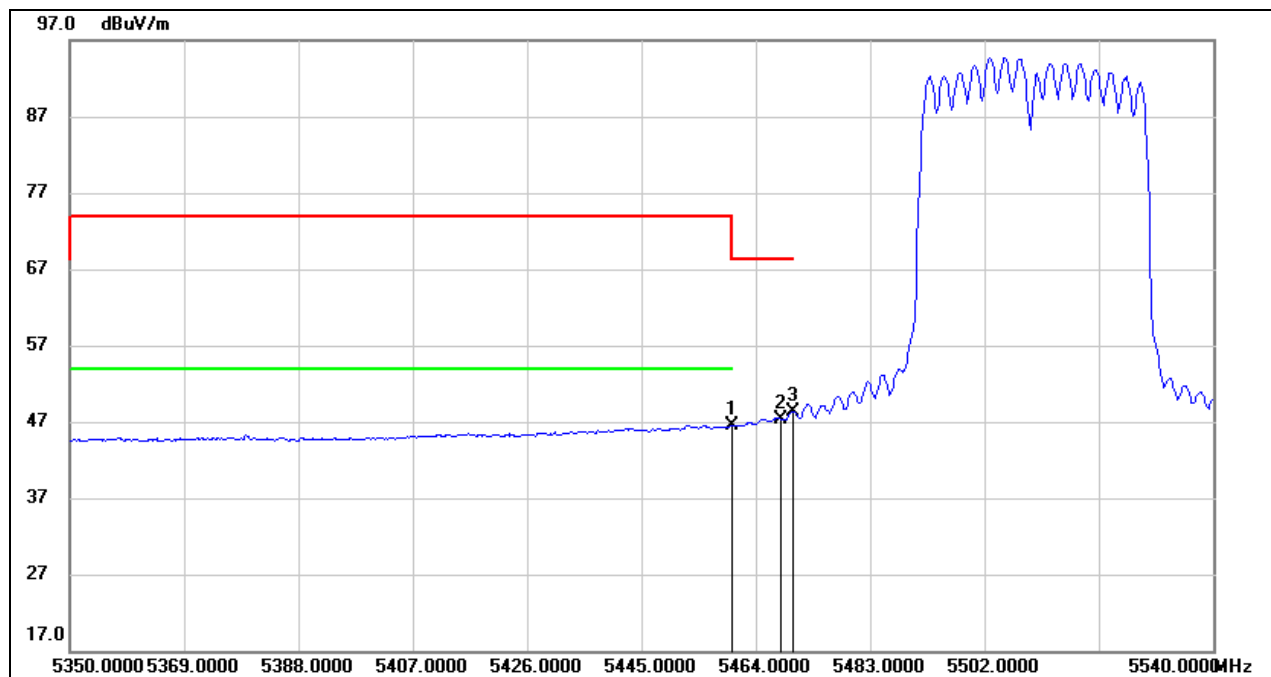


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	17.12	41.28	58.40	68.20	-9.80	peak
2	5468.180	25.34	41.39	66.73	68.20	-1.47	peak
3	5470.000	25.04	41.41	66.45	68.20	-1.75	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4.\*indicates frequency out of the restricted bands  
5. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



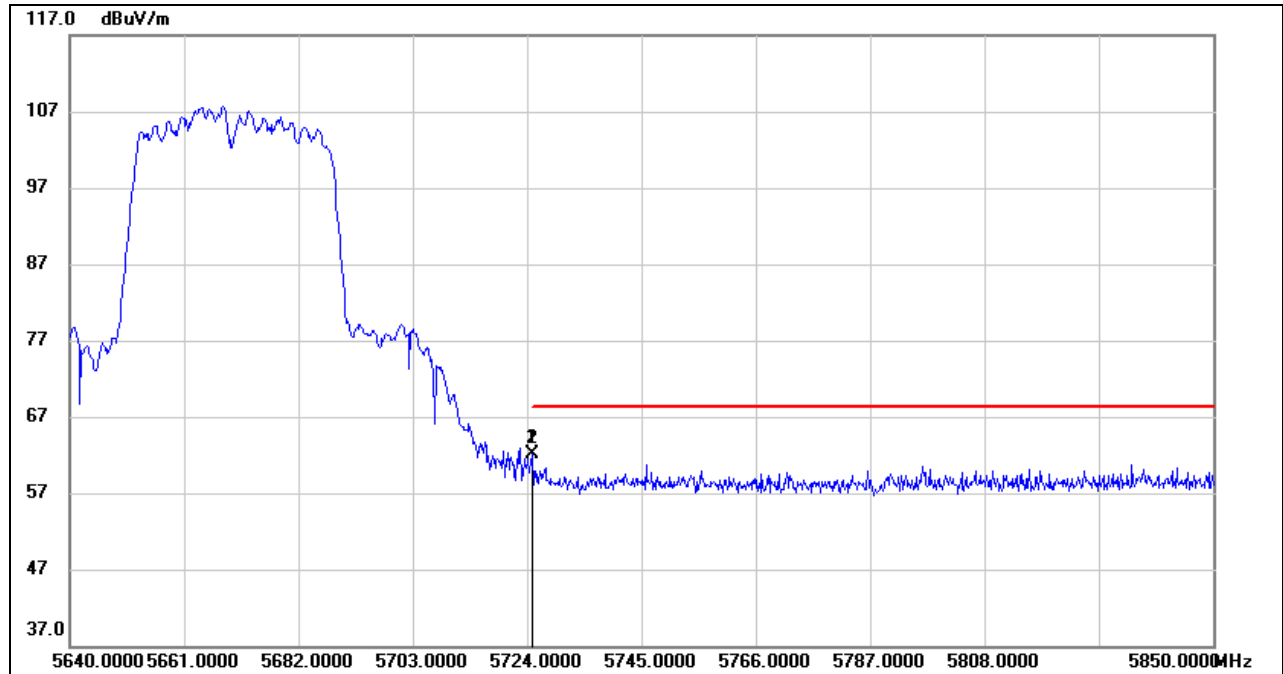
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5460.000	5.27	41.28	46.55	54.00	-7.45	AVG
2	5468.180	5.99	41.39	47.38	68.20	-20.82	AVG
3	5470.000	6.92	41.41	48.33	68.20	-19.87	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG: VBW=1/Ton where: ton is transmit duration.  
3. For duty cycle, please refer to clause 7.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**RESTRICTED BANDEDGE HIGH CHANNEL**

**HORIZONTAL RESULTS**  
**PEAK**

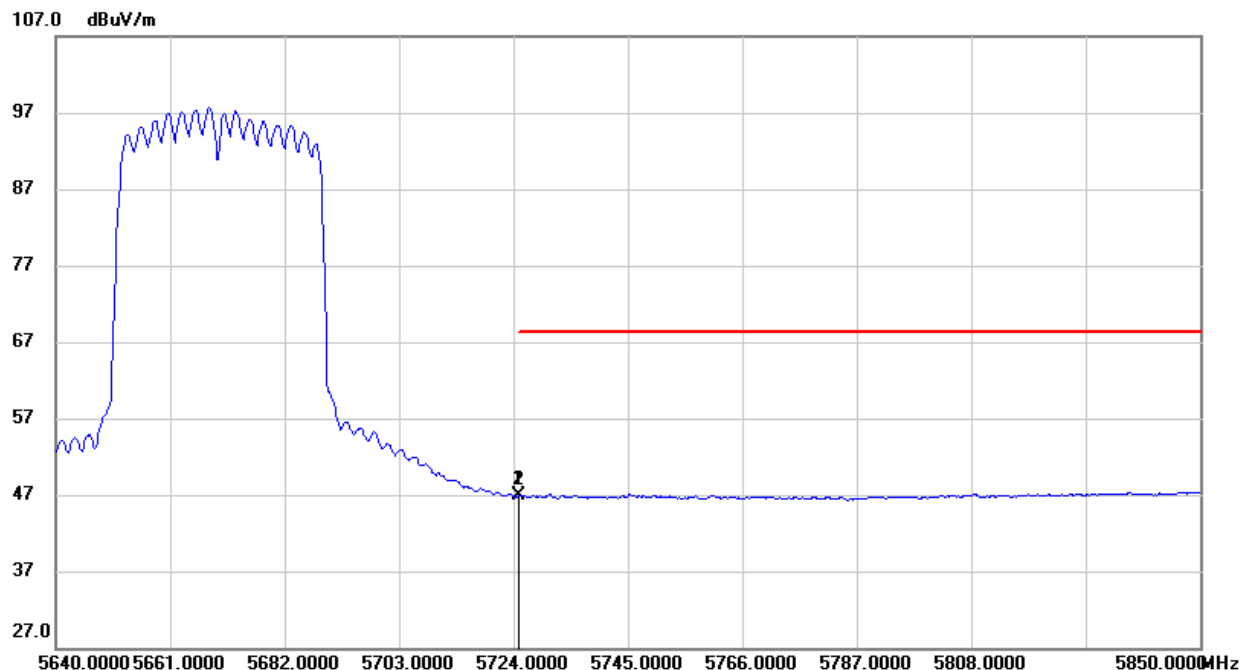


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	20.46	41.61	62.07	68.20	-6.13	peak
2	5725.050	20.46	41.61	62.07	68.20	-6.13	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4.\*indicates frequency out of the restricted bands  
5. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**

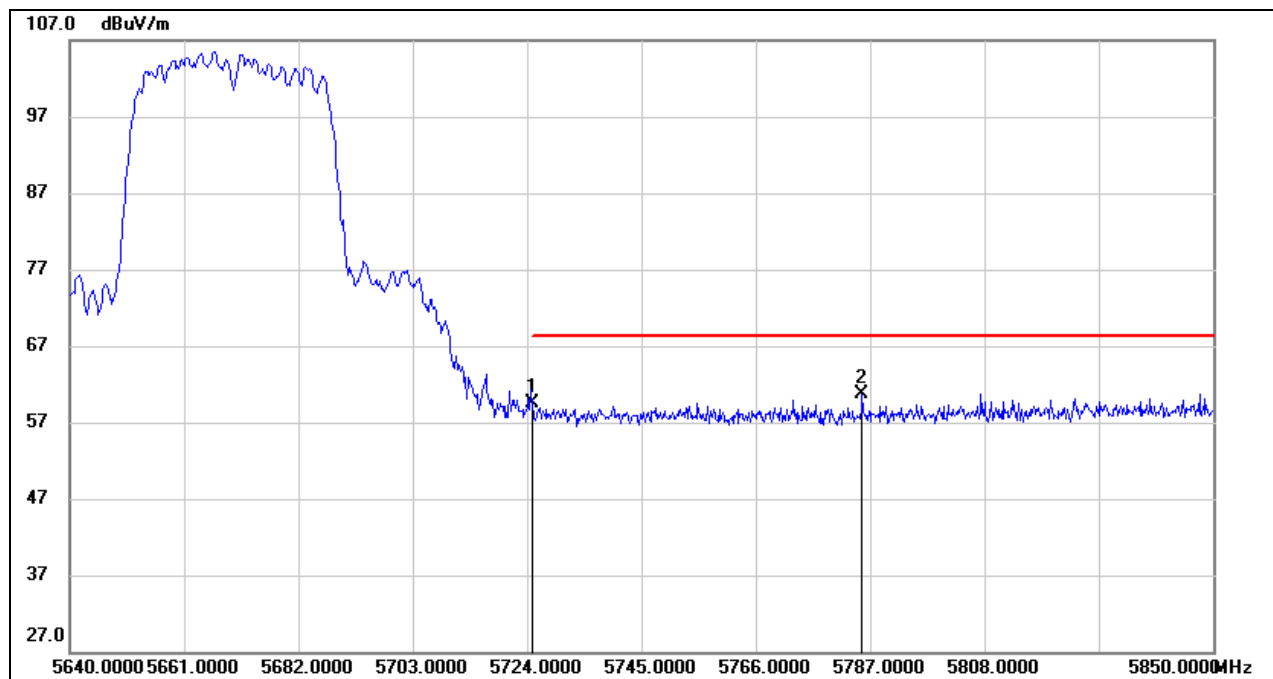


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	5.25	41.61	46.86	68.20	-21.34	AVG
2	5725.050	5.25	41.61	46.86	68.20	-21.34	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 7.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**VERTICAL RESULTS**  
**PEAK**

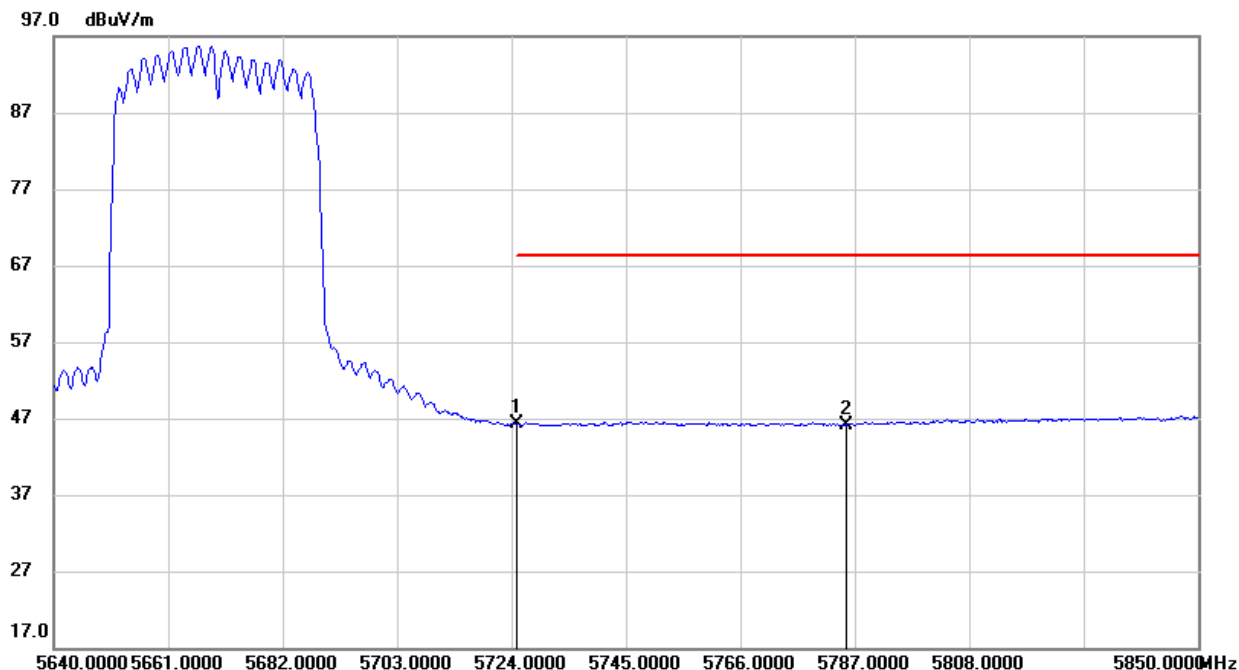


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	17.92	41.61	59.53	68.20	-8.67	peak
2	5785.530	18.90	41.87	60.77	68.20	-7.43	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4.\*indicates frequency out of the restricted bands  
5. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



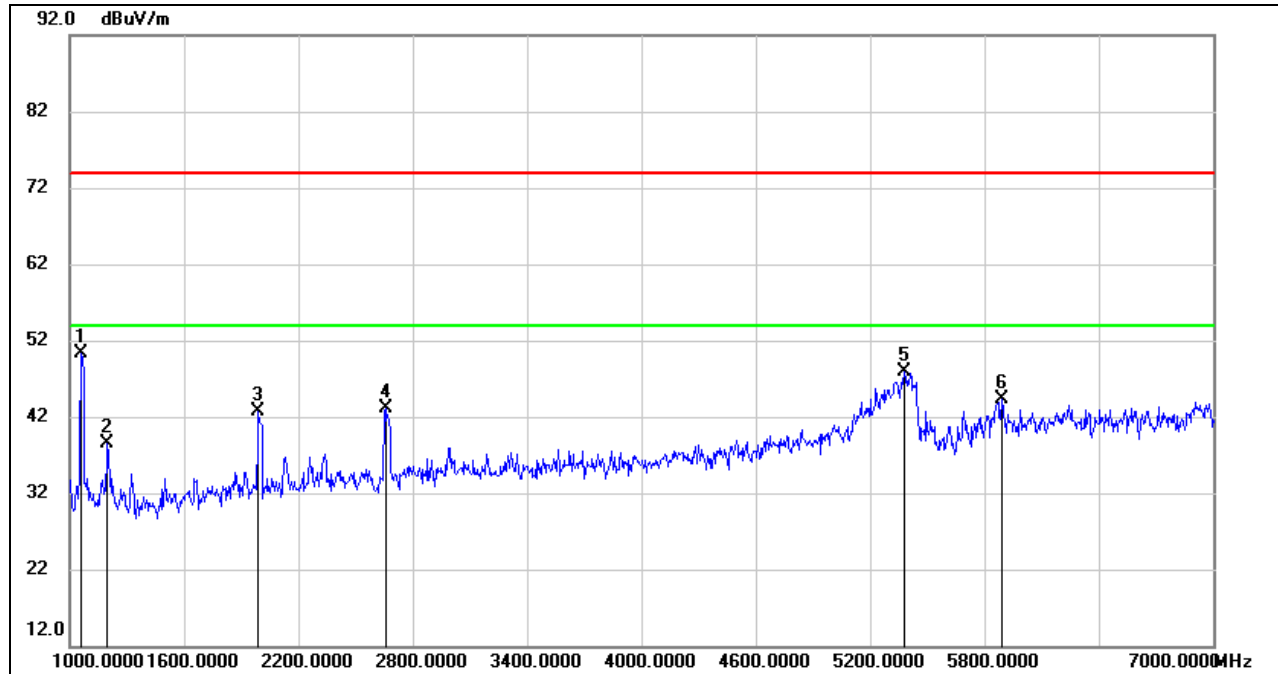
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	4.67	41.61	46.28	68.20	-21.92	AVG
2	5785.530	4.33	41.87	46.20	68.20	-22.00	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG: VBW=1/Ton where: ton is transmit duration.  
3. For duty cycle, please refer to clause 7.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz



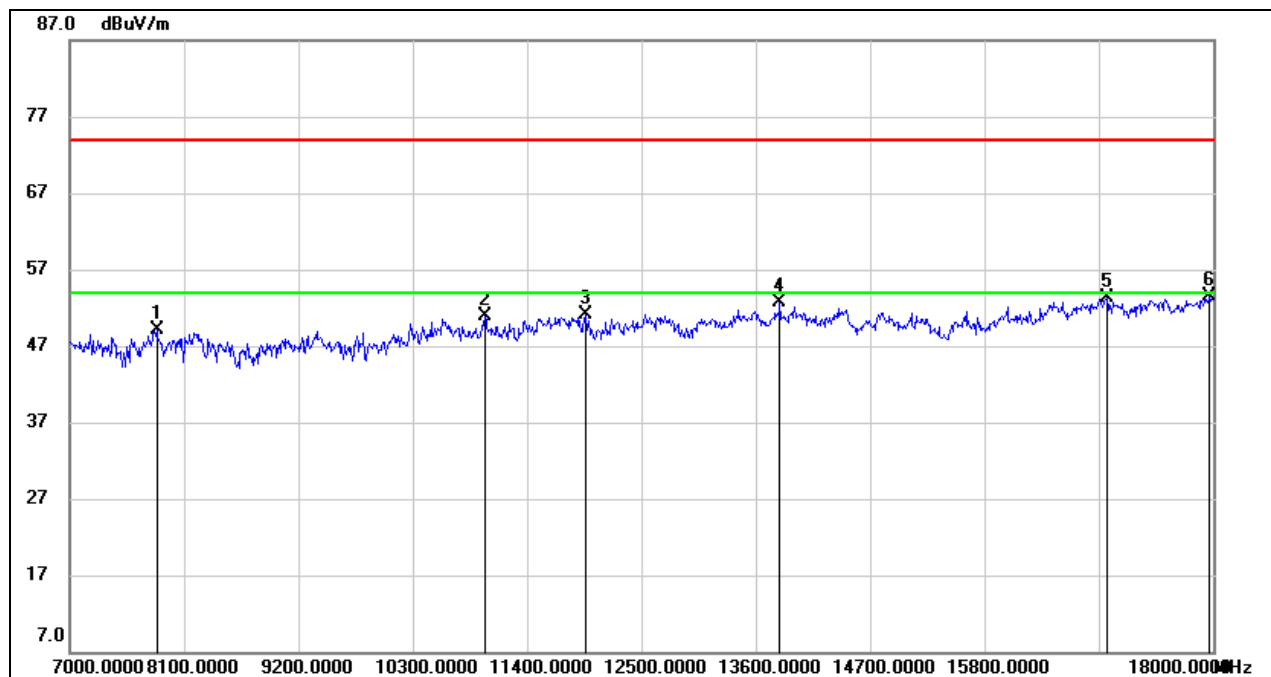
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	64.91	-14.51	50.40	74.00	-23.60	peak
2	1198.000	51.97	-13.52	38.45	74.00	-35.55	peak
3	1990.000	53.49	-10.86	42.63	74.00	-31.37	peak
4	2656.000	51.27	-8.21	43.06	74.00	-30.94	peak
5	5380.000	47.05	0.90	47.95	74.00	-26.05	peak
6	5890.000	39.66	4.68	44.34	74.00	-29.66	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.





**HORIZONTAL RESULTS**  
**7-18GHz**

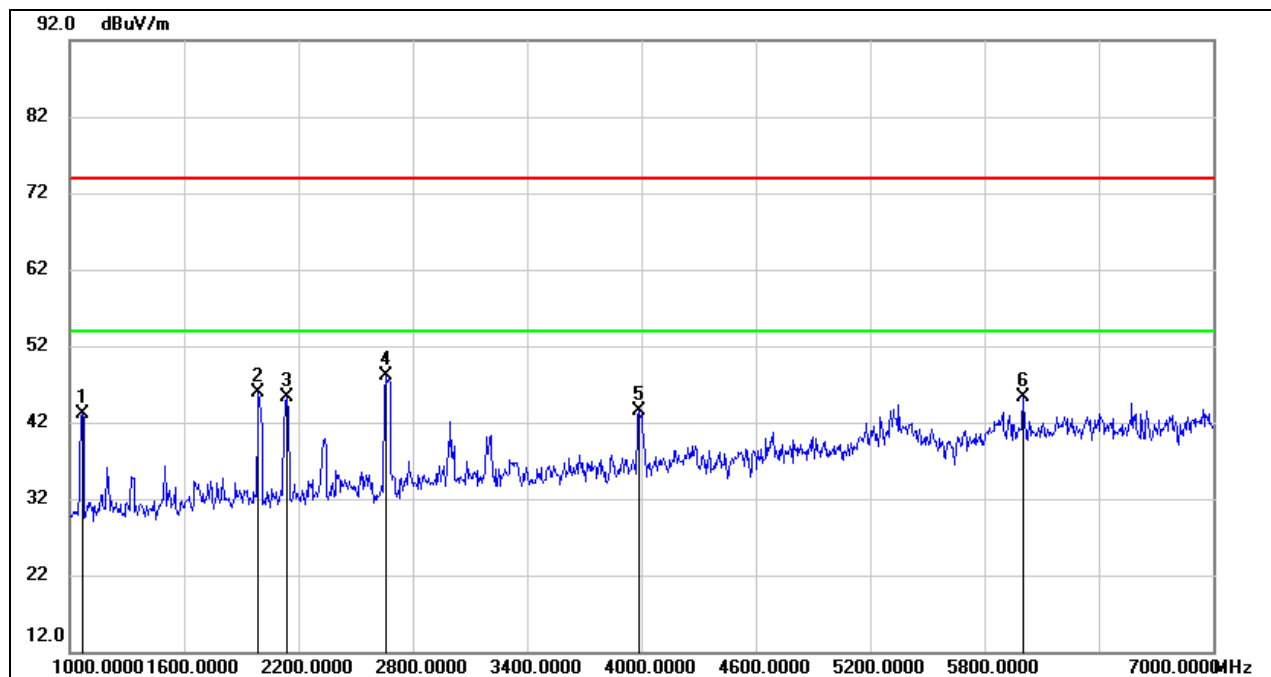


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7836.000	39.57	9.46	49.03	74.00	-24.97	peak
2	10993.000	37.40	13.59	50.99	74.00	-23.01	peak
3	11961.000	36.40	14.72	51.12	74.00	-22.88	peak
4	13831.000	35.37	17.31	52.68	74.00	-21.32	peak
5	16977.000	32.29	20.95	53.24	74.00	-20.76	peak
6	17967.000	29.98	23.45	53.43	74.00	-20.57	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**1-7GHz**

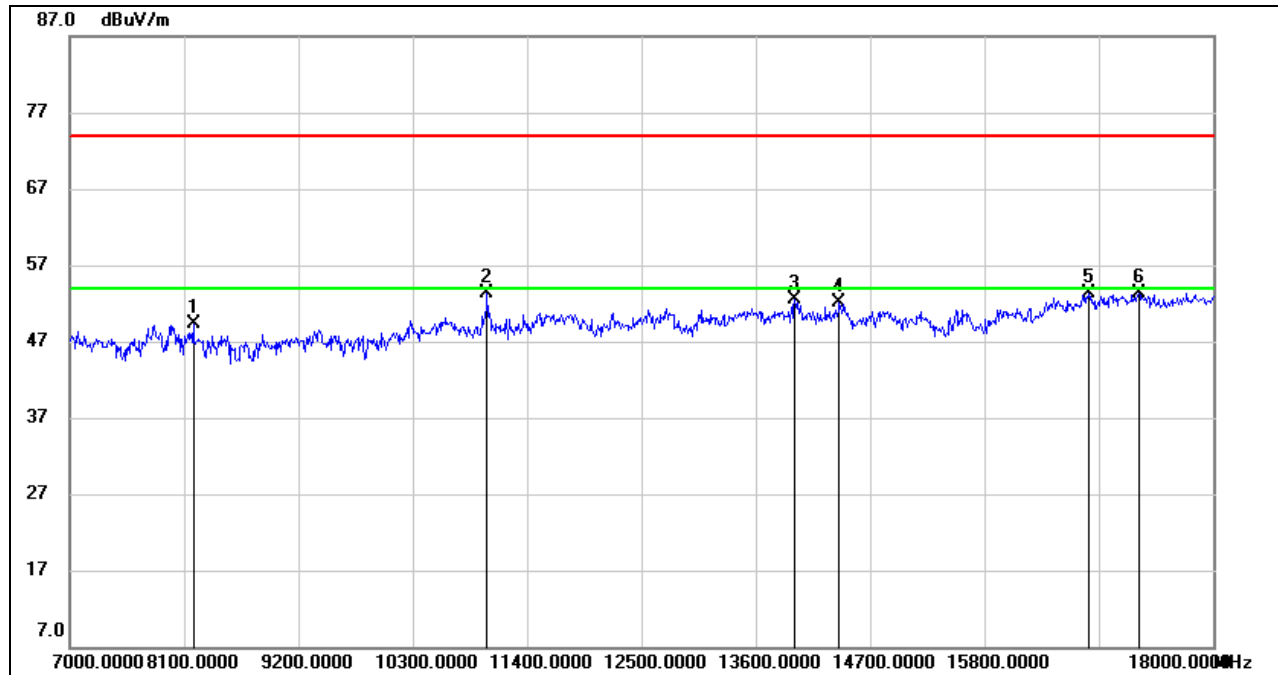


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1066.000	57.64	-14.50	43.14	74.00	-30.86	peak
2	1990.000	56.68	-10.86	45.82	74.00	-28.18	peak
3	2140.000	55.27	-10.05	45.22	74.00	-28.78	peak
4	2662.000	56.29	-8.18	48.11	74.00	-25.89	peak
5	3988.000	47.67	-4.08	43.59	74.00	-30.41	peak
6	6004.000	41.99	3.30	45.29	74.00	-28.71	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



### 7-18GHz



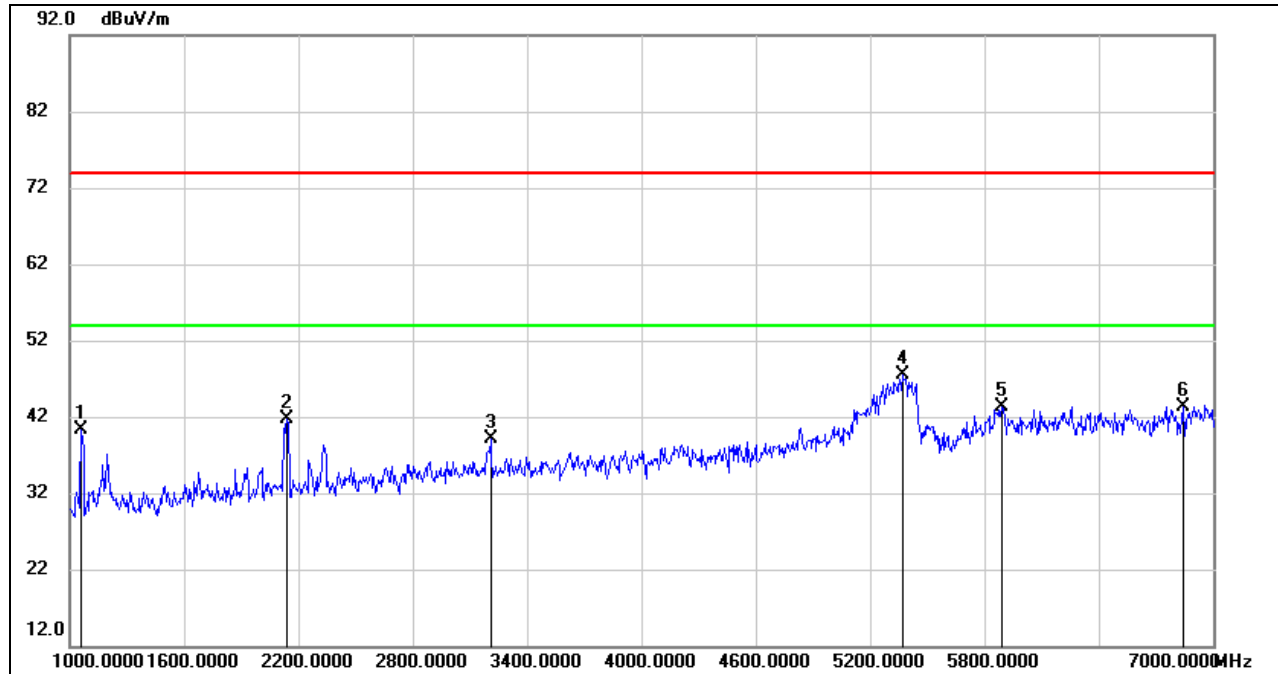
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8188.000	39.11	10.23	49.34	74.00	-24.66	peak
2	11015.000	39.71	13.65	53.36	74.00	-20.64	peak
3	13974.000	35.81	16.75	52.56	74.00	-21.44	peak
4	14403.000	35.05	17.01	52.06	74.00	-21.94	peak
5	16801.000	32.72	20.53	53.25	74.00	-20.75	peak
6	17285.000	31.25	22.09	53.34	74.00	-20.66	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



## HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL

### HORIZONTAL RESULTS 1-7GHz

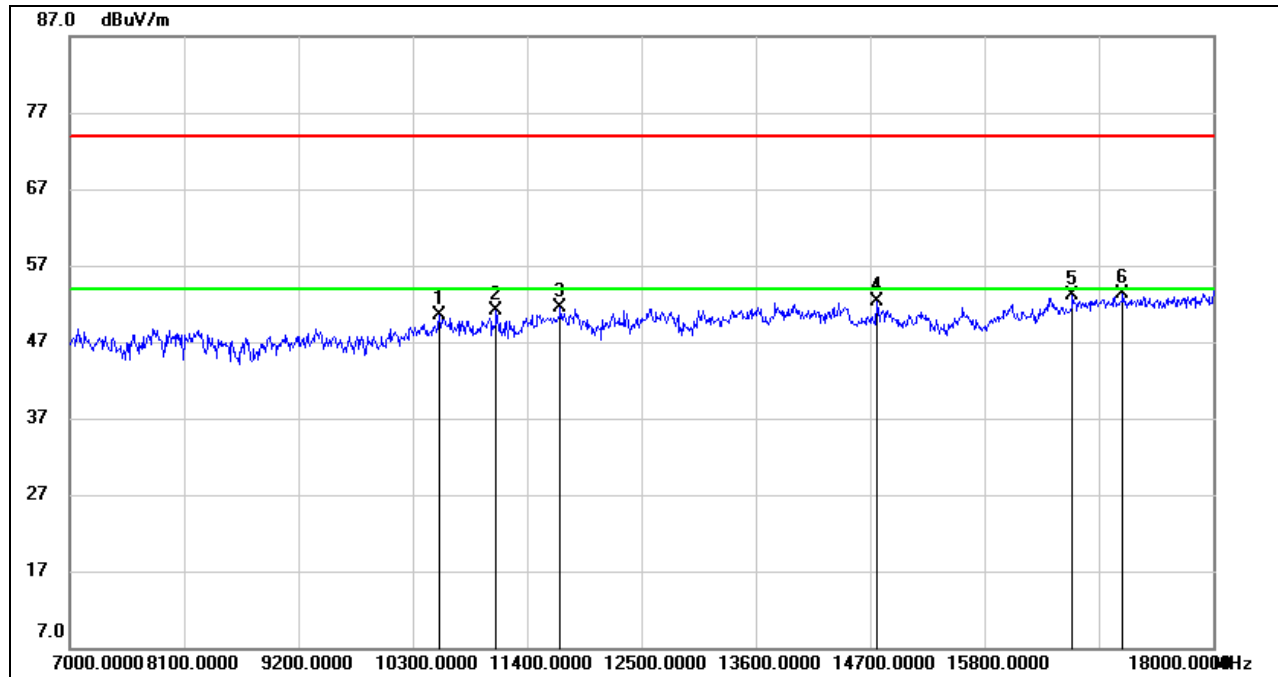


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	54.89	-14.51	40.38	74.00	-33.62	peak
2	2140.000	51.76	-10.05	41.71	74.00	-32.29	peak
3	3208.000	45.05	-5.95	39.10	74.00	-34.90	peak
4	5368.000	46.62	0.91	47.53	74.00	-26.47	peak
5	5890.000	38.72	4.68	43.40	74.00	-30.60	peak
6	6844.000	37.40	5.90	43.30	74.00	-30.70	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**HORIZONTAL RESULTS**  
**7-18GHz**

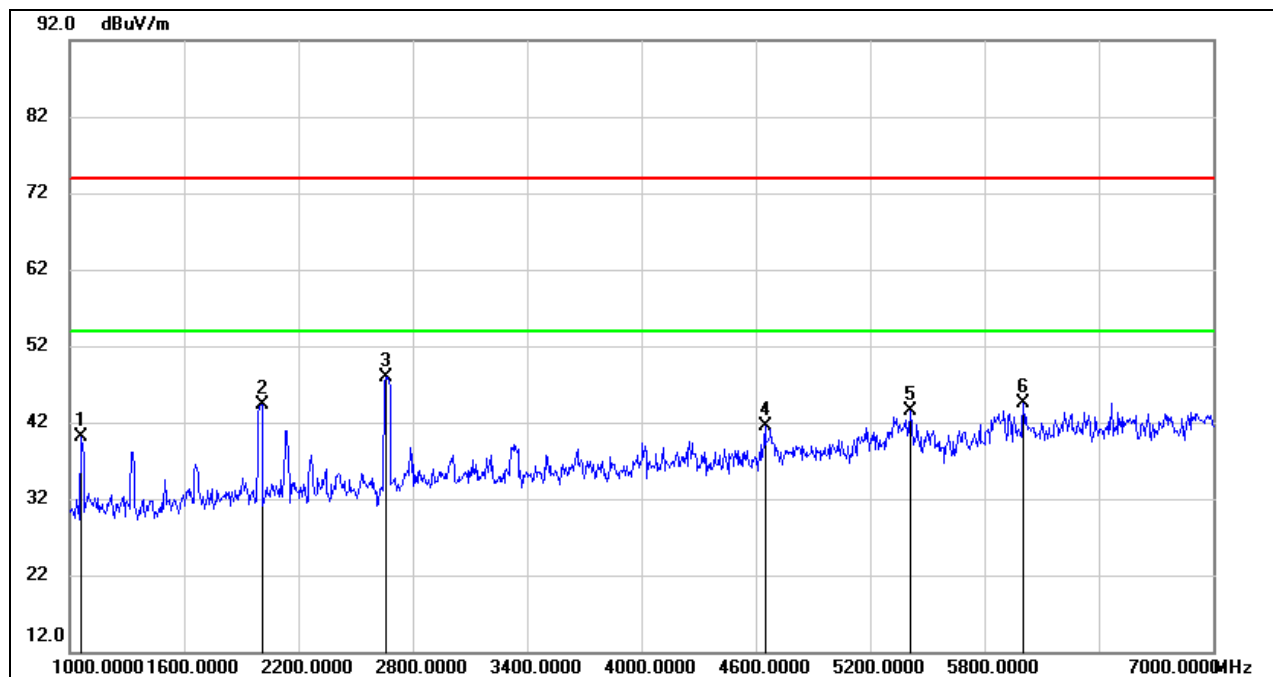


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10553.000	37.65	12.87	50.52	74.00	-23.48	peak
2	11103.000	37.48	13.69	51.17	74.00	-22.83	peak
3	11719.000	37.26	14.19	51.45	74.00	-22.55	peak
4	14766.000	36.15	16.19	52.34	74.00	-21.66	peak
5	16647.000	33.10	20.06	53.16	74.00	-20.84	peak
6	17131.000	31.92	21.36	53.28	74.00	-20.72	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**1-7GHz**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	54.53	-14.51	40.02	74.00	-33.98	peak
2	2008.000	55.16	-10.81	44.35	74.00	-29.65	peak
3	2662.000	56.15	-8.18	47.97	74.00	-26.03	peak
4	4648.000	43.25	-1.69	41.56	74.00	-32.44	peak
5	5410.000	42.51	1.00	43.51	74.00	-30.49	peak
6	6004.000	41.17	3.30	44.47	74.00	-29.53	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

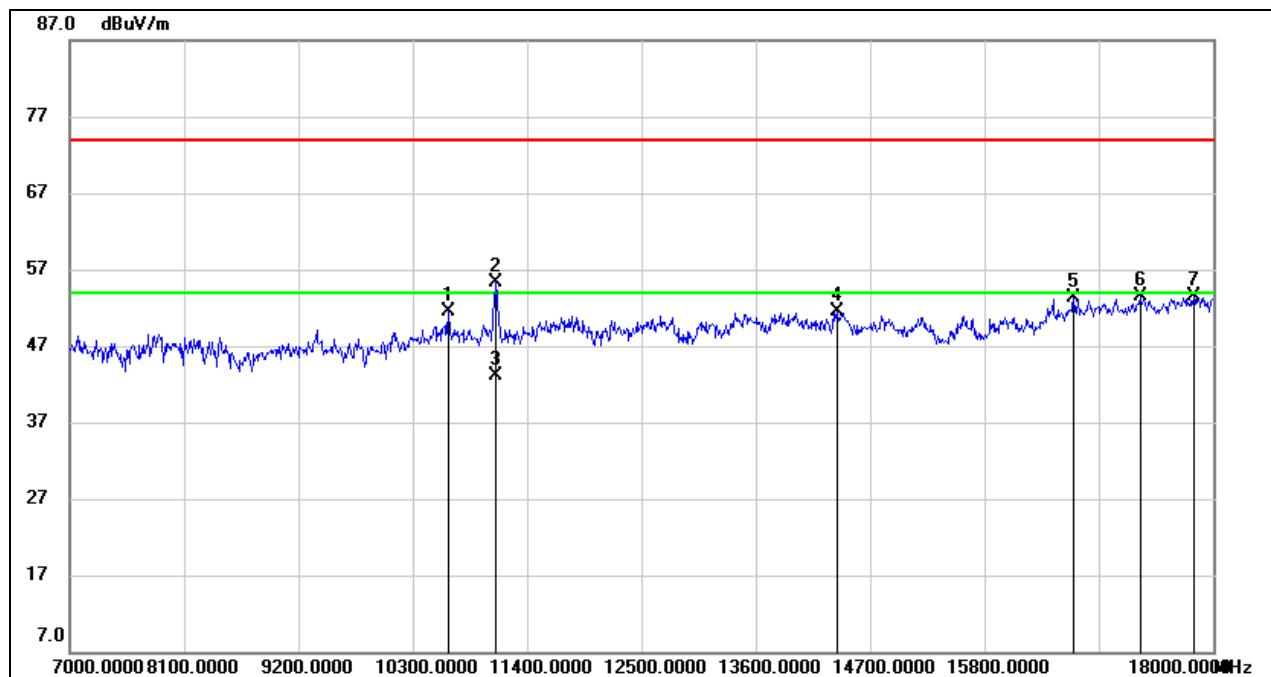
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**7-18GHz**



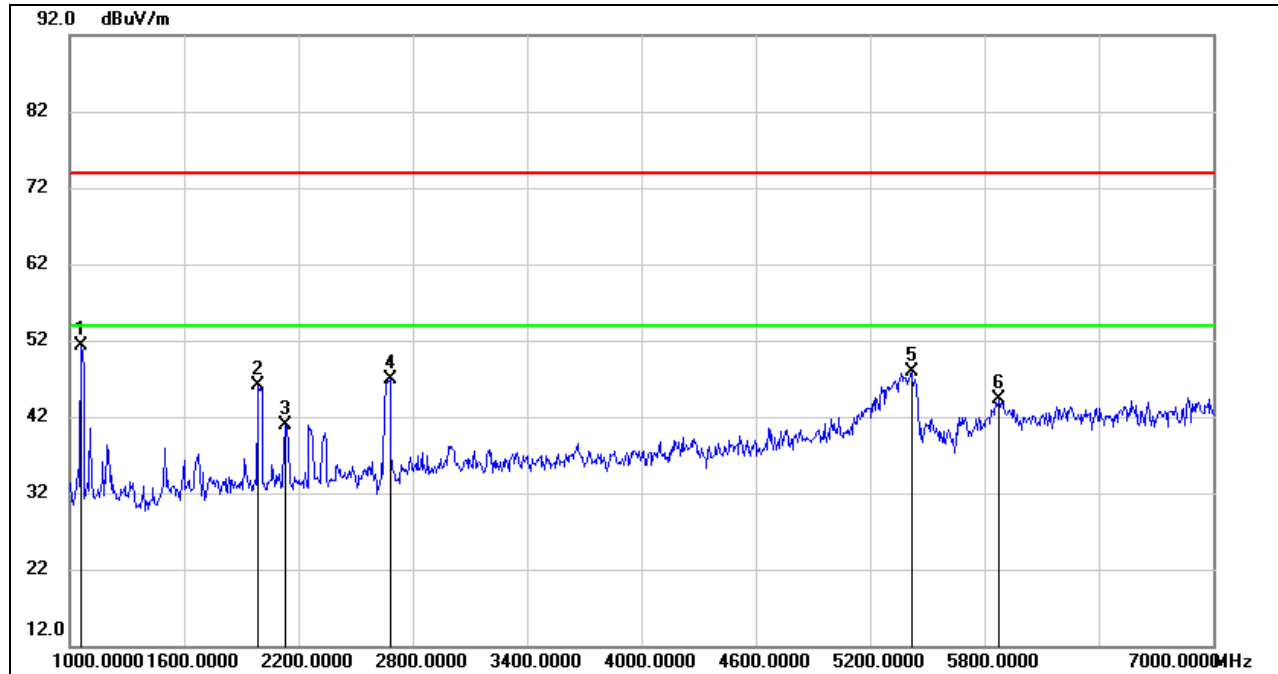
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10641.000	38.40	13.12	51.52	74.00	-22.48	peak
2	11103.000	41.71	13.69	55.40	74.00	-18.60	peak
3	11103.000	29.34	13.69	43.03	54.00	-10.97	AVG
4	14381.000	34.44	16.97	51.41	74.00	-22.59	peak
5	16658.000	33.27	20.13	53.40	74.00	-20.60	peak
6	17296.000	31.36	22.16	53.52	74.00	-20.48	peak
7	17813.000	30.03	23.45	53.48	74.00	-20.52	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz



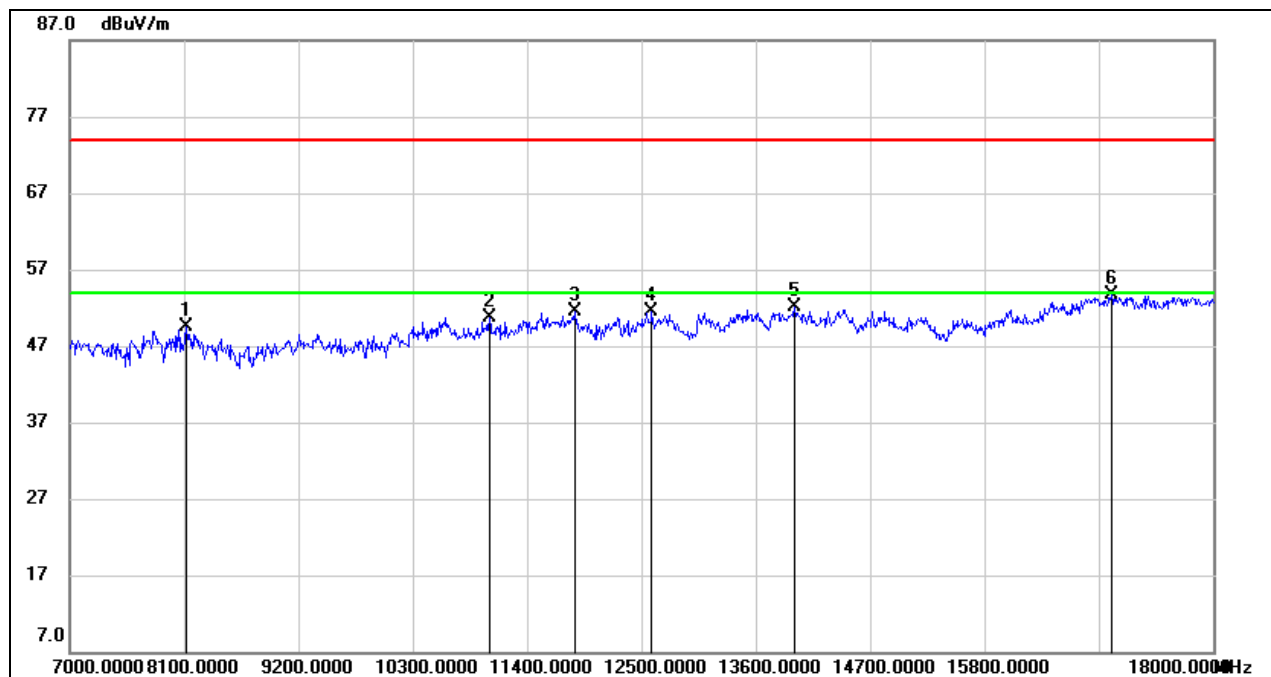
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	65.80	-14.51	51.29	74.00	-22.71	peak
2	1990.000	57.02	-10.86	46.16	74.00	-27.84	peak
3	2134.000	51.03	-10.07	40.96	74.00	-33.04	peak
4	2680.000	54.90	-8.04	46.86	74.00	-27.14	peak
5	5416.000	46.72	1.10	47.82	74.00	-26.18	peak
6	5878.000	39.79	4.43	44.22	74.00	-29.78	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.





**HORIZONTAL RESULTS**  
**7-18GHz**

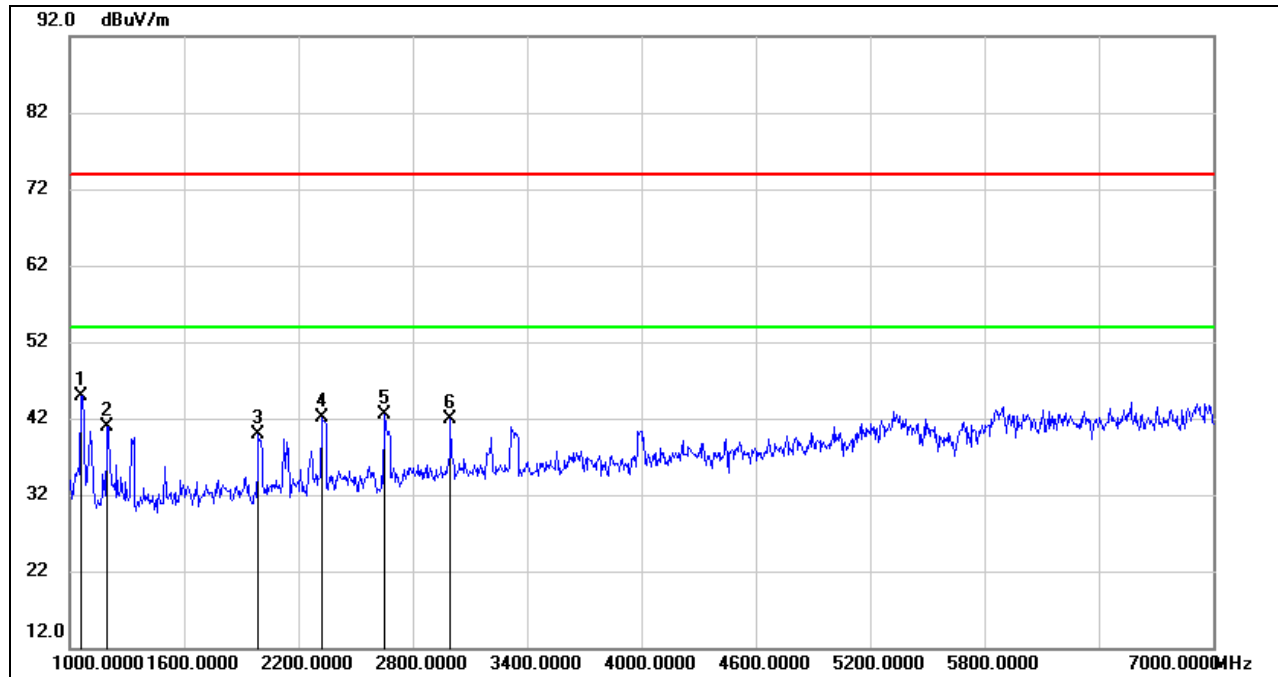


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8122.000	39.70	9.80	49.50	74.00	-24.50	peak
2	11037.000	37.02	13.66	50.68	74.00	-23.32	peak
3	11862.000	37.02	14.47	51.49	74.00	-22.51	peak
4	12599.000	36.88	14.67	51.55	74.00	-22.45	peak
5	13974.000	35.42	16.75	52.17	74.00	-21.83	peak
6	17021.000	32.48	21.13	53.61	74.00	-20.39	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**1-7GHz**

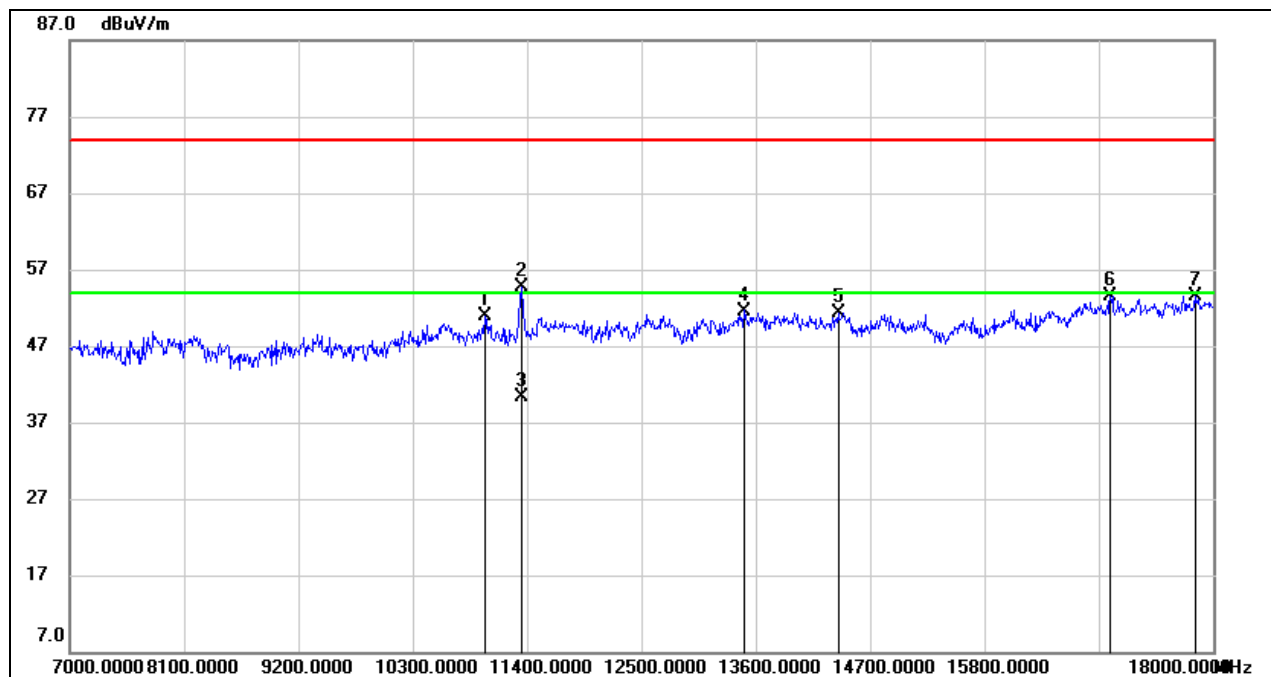


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	59.47	-14.51	44.96	74.00	-29.04	peak
2	1198.000	54.39	-13.52	40.87	74.00	-33.13	peak
3	1990.000	50.82	-10.86	39.96	74.00	-34.04	peak
4	2320.000	51.49	-9.42	42.07	74.00	-31.93	peak
5	2650.000	50.69	-8.26	42.43	74.00	-31.57	peak
6	2998.000	48.25	-6.27	41.98	74.00	-32.02	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**7-18GHz**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10993.000	37.23	13.59	50.82	74.00	-23.18	peak
2	11345.000	41.24	13.53	54.77	74.00	-19.23	peak
3	11345.000	26.80	13.53	40.33	54.00	-13.67	AVG
4	13490.000	35.35	16.25	51.60	74.00	-22.40	peak
5	14392.000	34.33	16.99	51.32	74.00	-22.68	peak
6	17010.000	32.38	21.11	53.49	74.00	-20.51	peak
7	17824.000	30.05	23.45	53.50	74.00	-20.50	peak

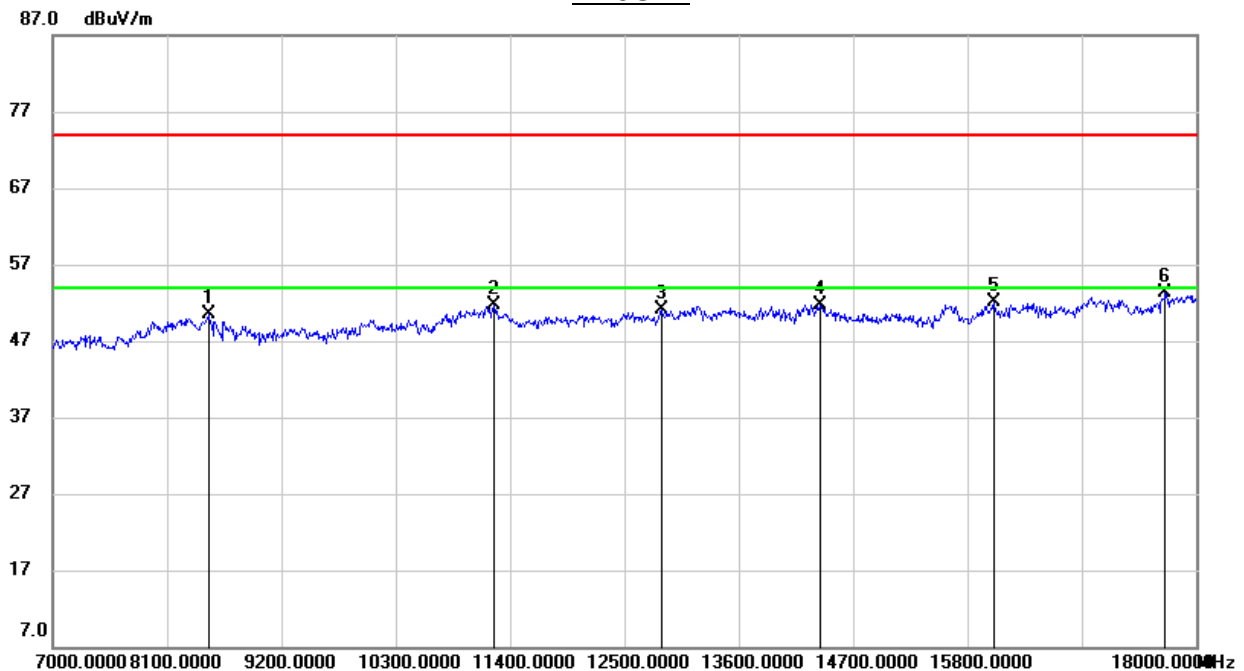
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



### 8.3.1. STRADDLE CHANNEL 142

#### HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

##### HORIZONTAL RESULTS 7-18GHz

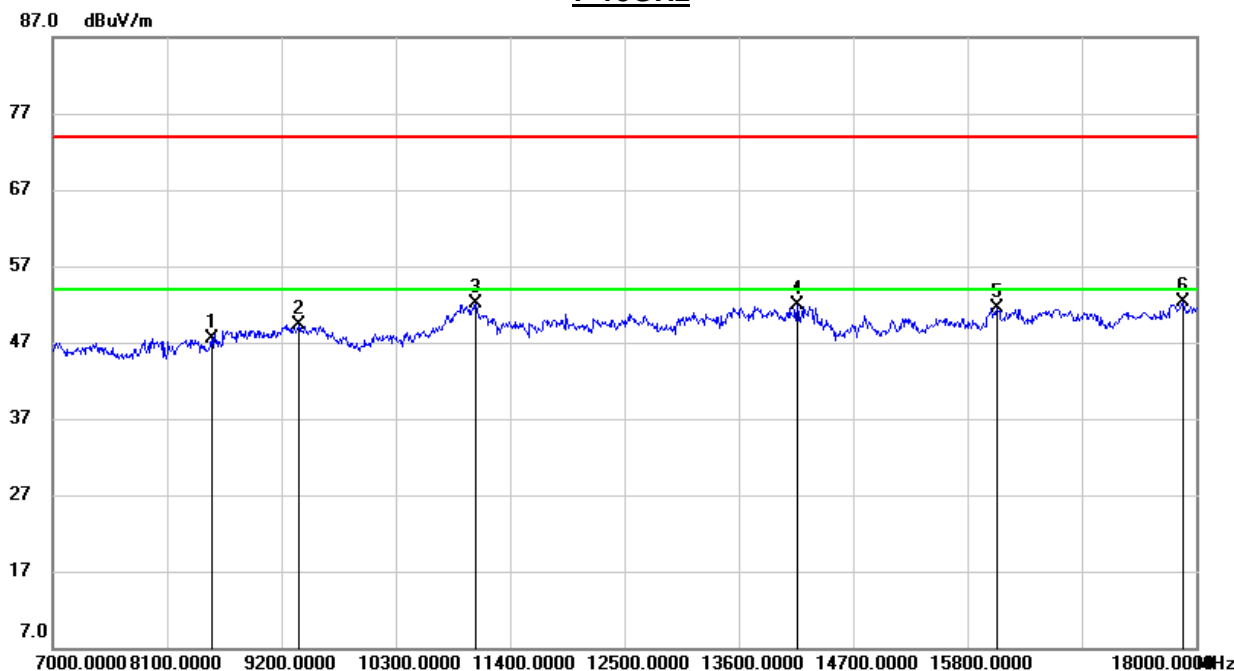


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8496.000	41.22	9.26	50.48	74.00	-23.52	peak
2	11246.000	38.13	13.58	51.71	74.00	-22.29	peak
3	12852.000	35.28	15.81	51.09	74.00	-22.91	peak
4	14381.000	34.69	16.97	51.66	74.00	-22.34	peak
5	16053.000	34.01	18.04	52.05	74.00	-21.95	peak
6	17703.000	30.77	22.62	53.39	74.00	-20.61	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**7-18GHz**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8529.000	38.35	9.18	47.53	74.00	-26.47	peak
2	9365.000	38.58	10.76	49.34	74.00	-24.66	peak
3	11070.000	38.50	13.68	52.18	74.00	-21.82	peak
4	14161.000	34.95	16.89	51.84	74.00	-22.16	peak
5	16086.000	33.27	18.24	51.51	74.00	-22.49	peak
6	17879.000	28.83	23.40	52.23	74.00	-21.77	peak

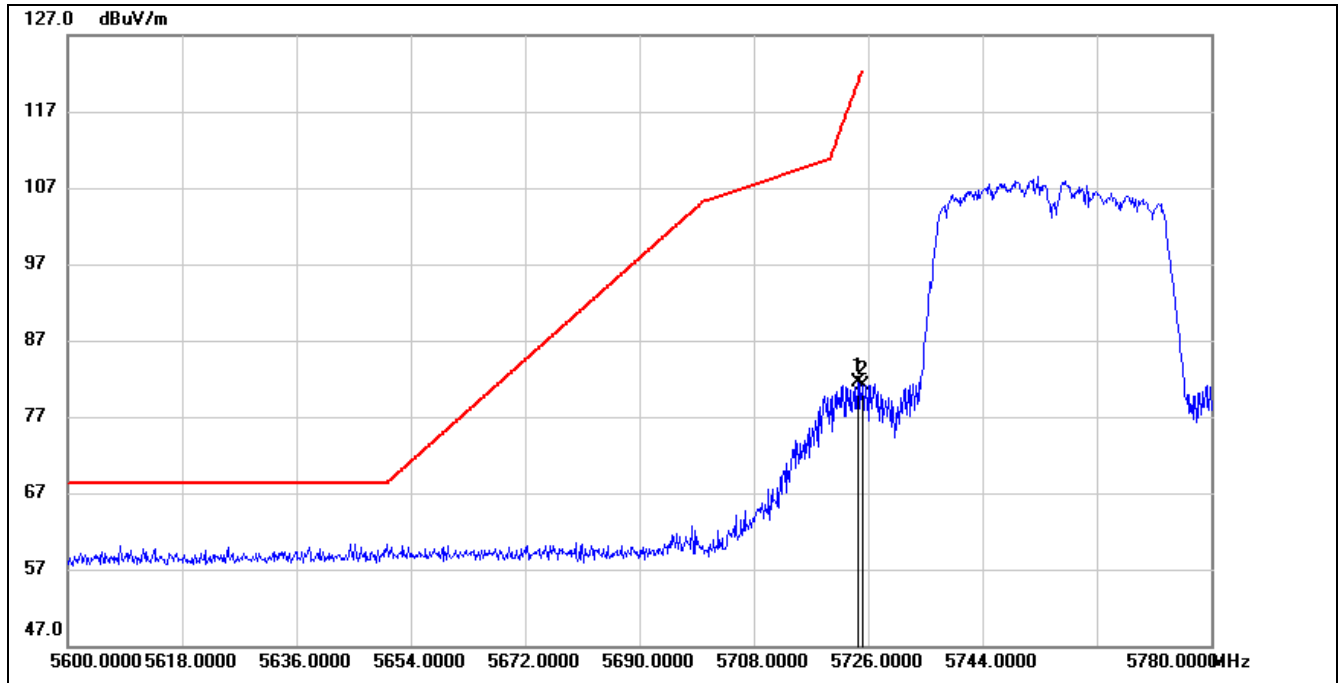
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



### 8.3.2. UNII-3 BAND

#### RESTRICTED BANDEGE LOW CHANNEL

#### HORIZONTAL RESULTS

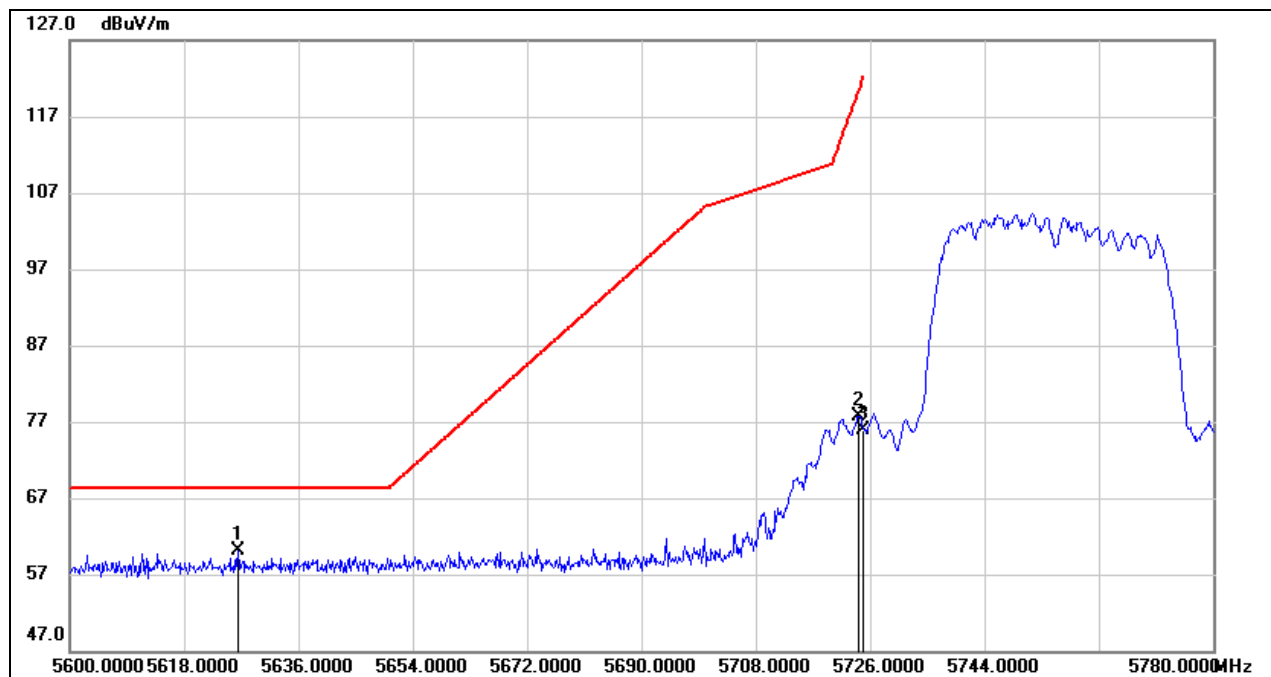


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5724.380	39.79	41.61	81.40	120.79	-39.39	peak
2	5725.000	39.50	41.61	81.11	122.20	-41.09	peak

Note: 1. Measurement = Reading Level + Correct Factor.



### VERTICAL RESULTS



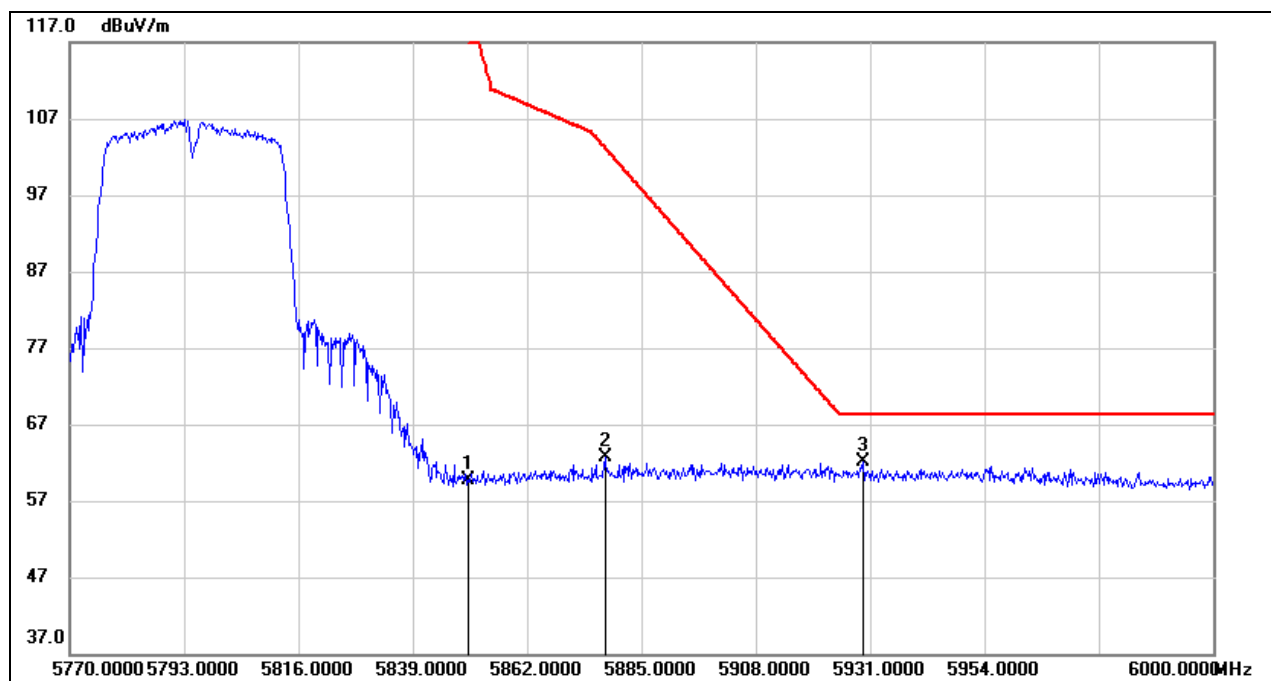
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5626.460	18.68	41.47	60.15	68.20	-8.05	peak
2	5724.200	36.10	41.60	77.70	120.38	-42.68	peak
3	5725.000	34.29	41.61	75.90	122.20	-46.30	peak

Note: 1. Measurement = Reading Level + Correct Factor.



**RESTRICTED BANDEDGE HIGH CHANNEL**

**HORIZONTAL RESULTS**



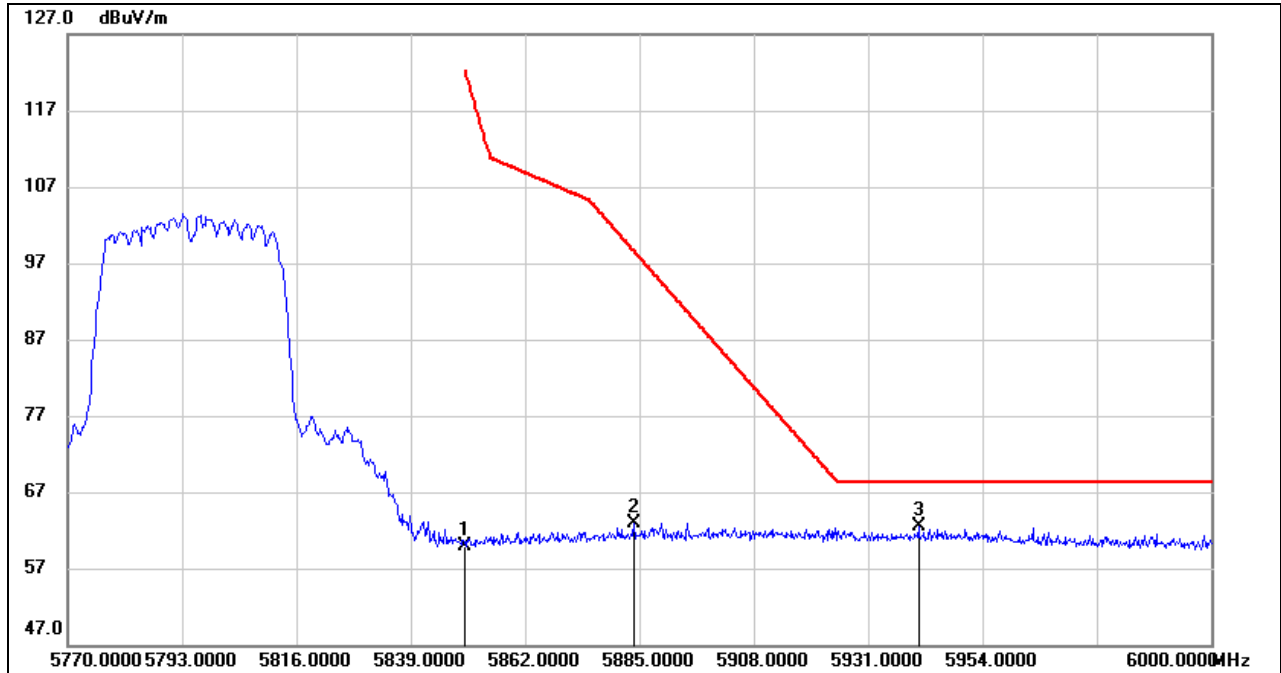
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	16.76	42.89	59.65	122.20	-62.55	peak
2	5877.640	19.27	43.42	62.69	103.24	-40.55	peak
3	5929.620	18.79	43.35	62.14	68.20	-6.06	peak

Note: 1. Measurement = Reading Level + Correct Factor.





### VERTICAL RESULTS



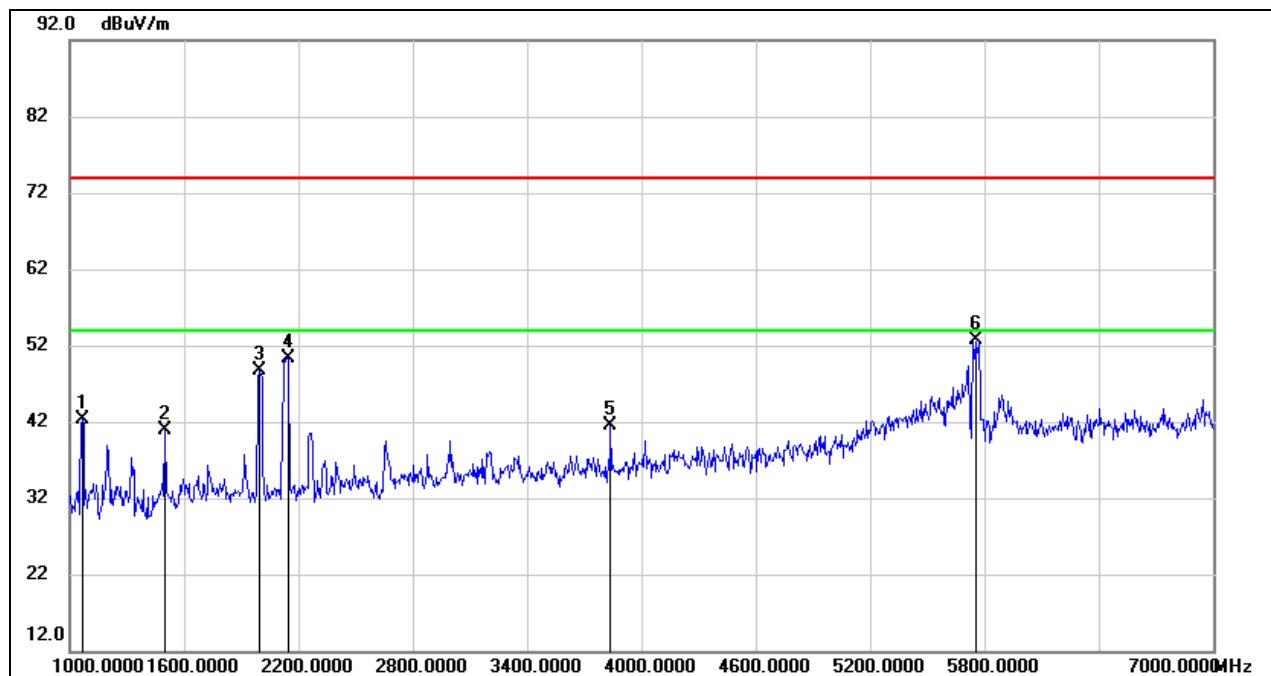
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	17.08	42.89	59.97	122.20	-62.23	peak
2	5883.850	19.41	43.54	62.95	98.63	-35.68	peak
3	5941.120	19.26	43.15	62.41	68.20	-5.79	peak

Note: 1. Measurement = Reading Level + Correct Factor.



## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz

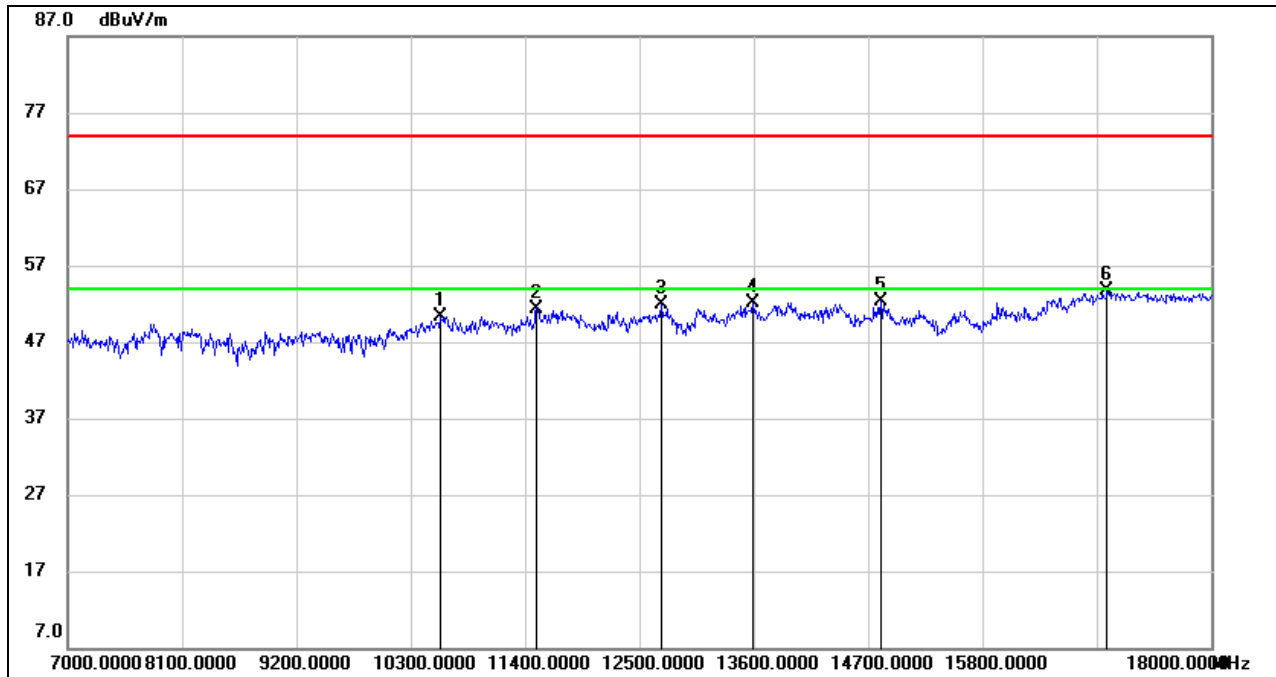


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1066.000	56.73	-14.50	42.23	74.00	-31.77	peak
2	1498.000	53.94	-13.08	40.86	74.00	-33.14	peak
3	1996.000	59.58	-10.86	48.72	74.00	-25.28	peak
4	2146.000	60.32	-10.02	50.30	74.00	-23.70	peak
5	3838.000	45.77	-4.20	41.57	74.00	-32.43	peak
6	5755.000	50.10	2.60	52.70	74.00	-21.30	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**HORIZONTAL RESULTS**  
**7-18GHz**

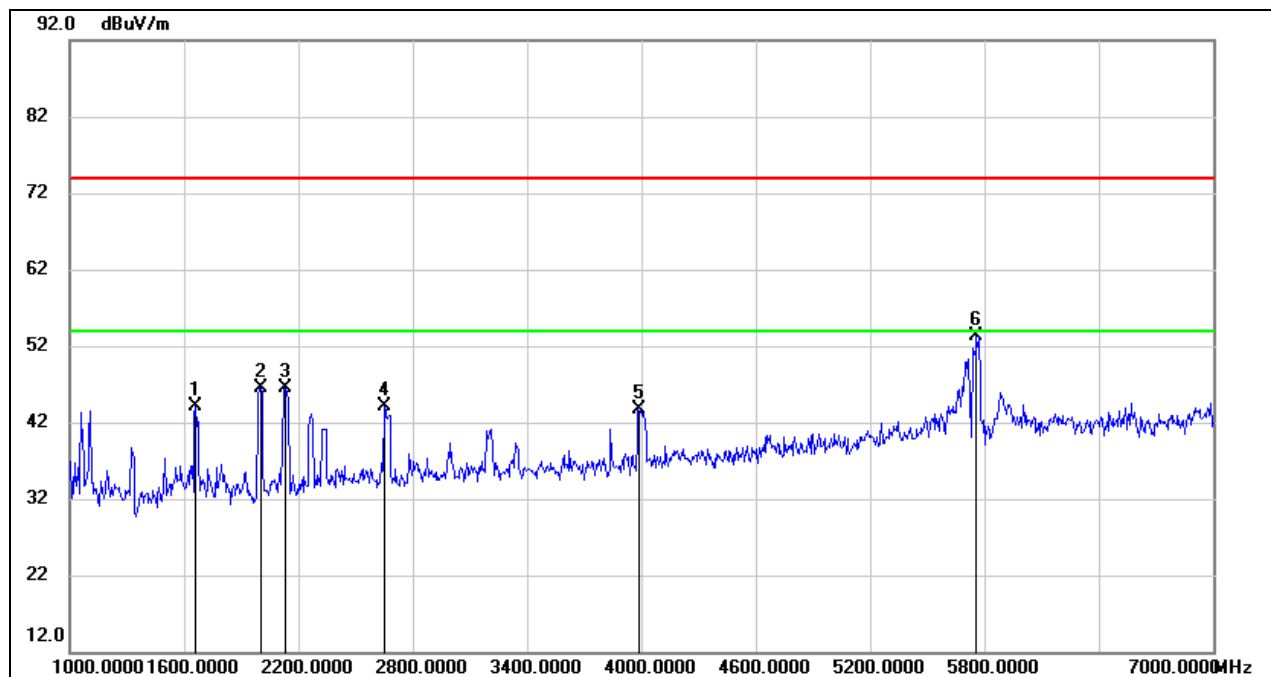


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10586.000	37.05	13.25	50.30	74.00	-23.70	peak
2	11510.000	36.93	14.47	51.40	74.00	-22.60	peak
3	12709.000	36.93	14.95	51.88	74.00	-22.12	peak
4	13589.000	35.69	16.46	52.15	74.00	-21.85	peak
5	14821.000	36.22	16.13	52.35	74.00	-21.65	peak
6	16999.000	32.58	21.09	53.67	74.00	-20.33	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**1-7GHz**

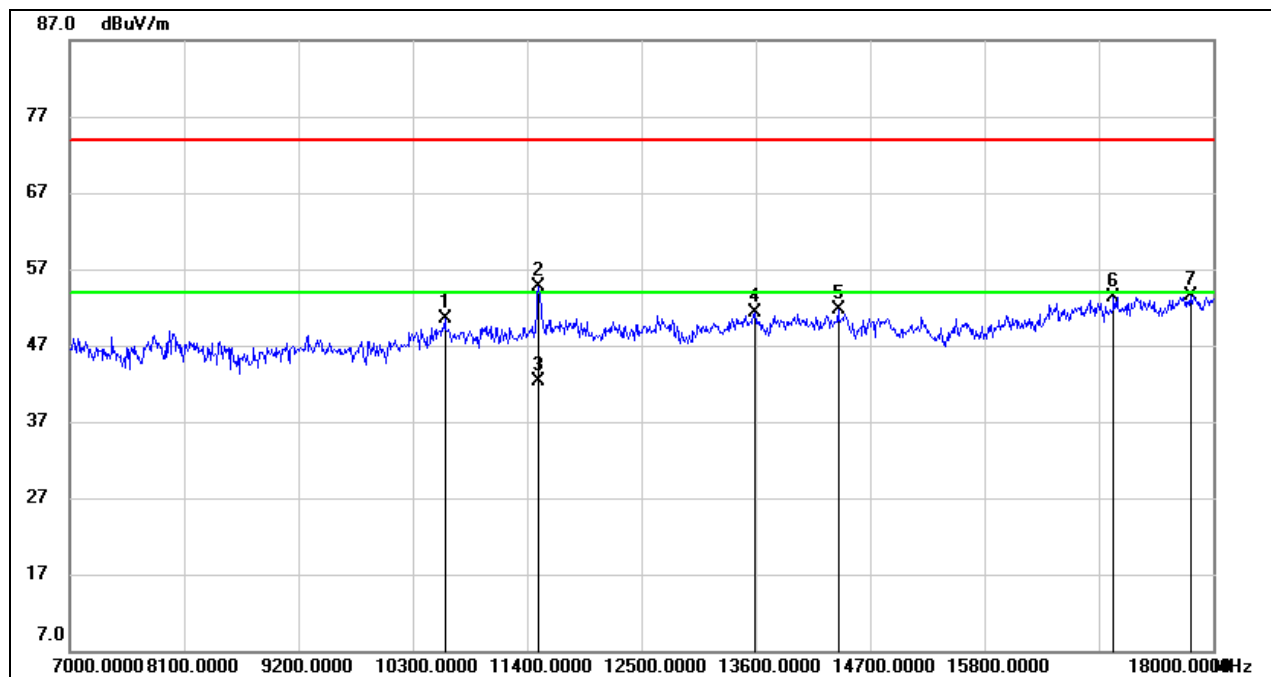


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1660.000	56.11	-12.10	44.01	74.00	-29.99	peak
2	2002.000	57.38	-10.85	46.53	74.00	-27.47	peak
3	2134.000	56.63	-10.07	46.56	74.00	-27.44	peak
4	2650.000	52.32	-8.26	44.06	74.00	-29.94	peak
5	3988.000	47.88	-4.08	43.80	74.00	-30.20	peak
6	5755.000	50.69	2.60	53.29	74.00	-20.71	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



### 7-18GHz



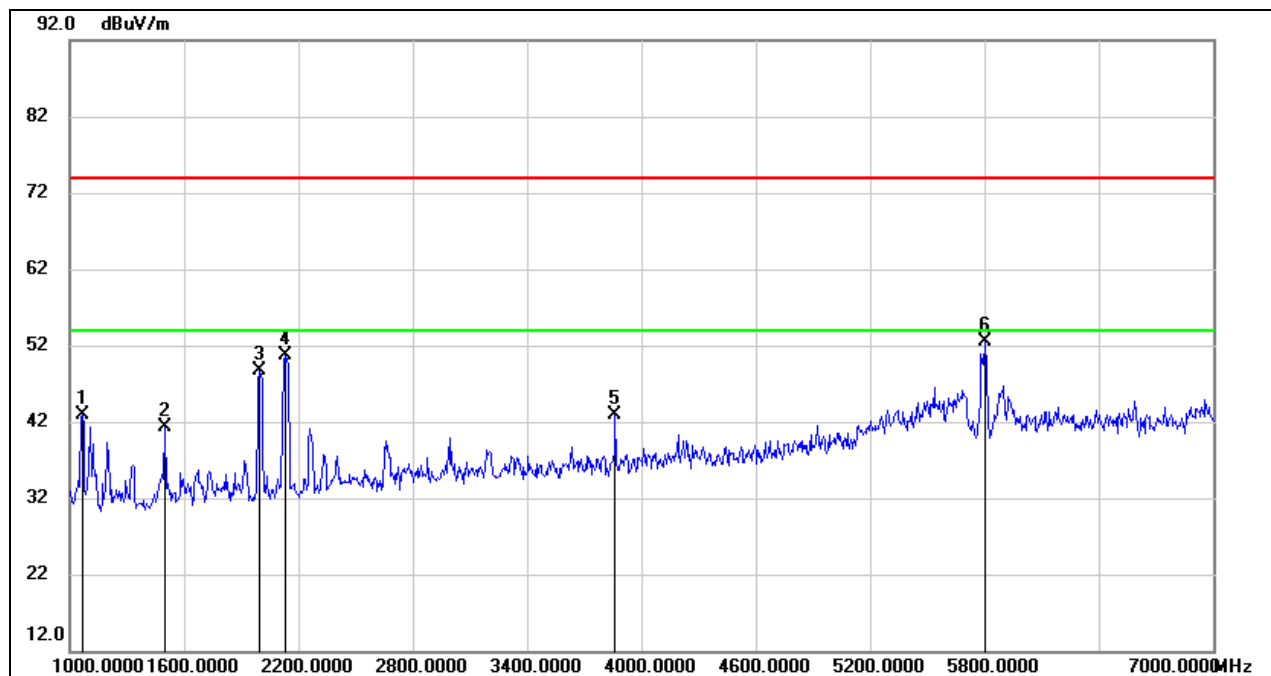
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10608.000	37.22	13.34	50.56	74.00	-23.44	peak
2	11510.000	40.32	14.47	54.79	74.00	-19.21	peak
3	11510.000	27.84	14.47	42.31	54.00	-11.69	AVG
4	13589.000	34.86	16.46	51.32	74.00	-22.68	peak
5	14392.000	34.79	16.99	51.78	74.00	-22.22	peak
6	17043.000	32.22	21.16	53.38	74.00	-20.62	peak
7	17780.000	30.18	23.28	53.46	74.00	-20.54	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz

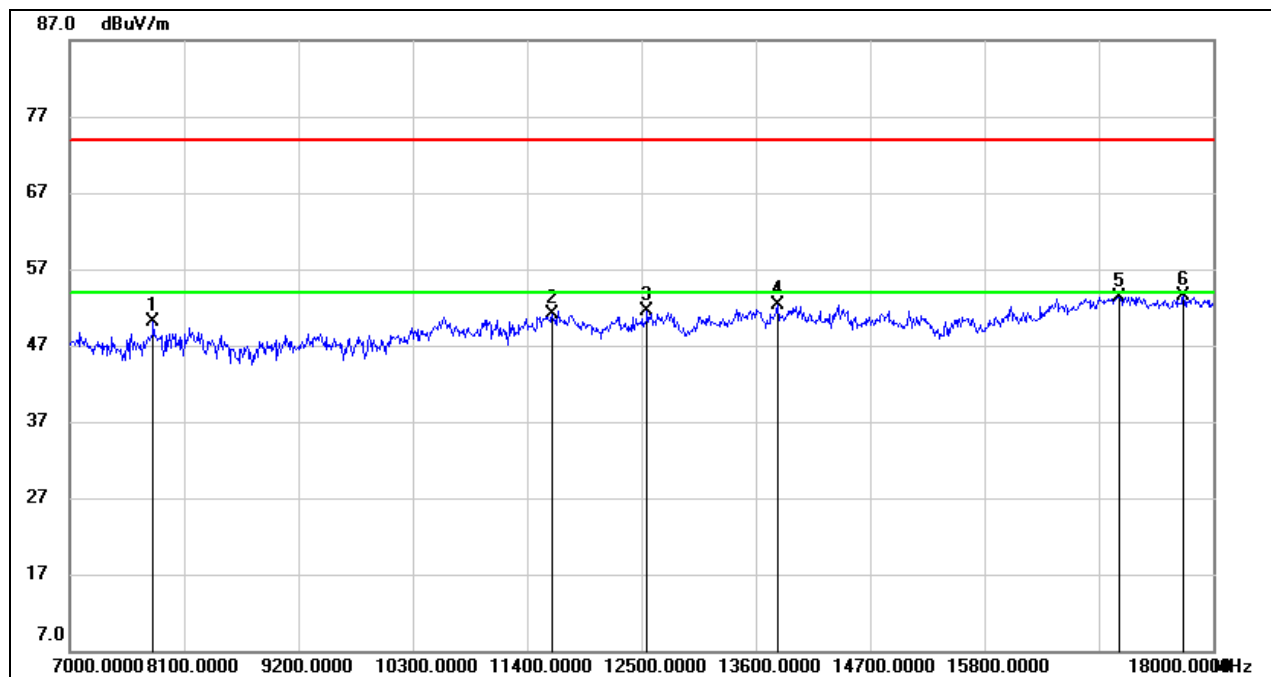


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1066.000	57.49	-14.50	42.99	74.00	-31.01	peak
2	1498.000	54.32	-13.08	41.24	74.00	-32.76	peak
3	1996.000	59.49	-10.86	48.63	74.00	-25.37	peak
4	2134.000	60.79	-10.07	50.72	74.00	-23.28	peak
5	3862.000	47.11	-4.20	42.91	74.00	-31.09	peak
6	5795.000	49.66	2.87	52.53	74.00	-21.47	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**HORIZONTAL RESULTS**  
**7-18GHz**

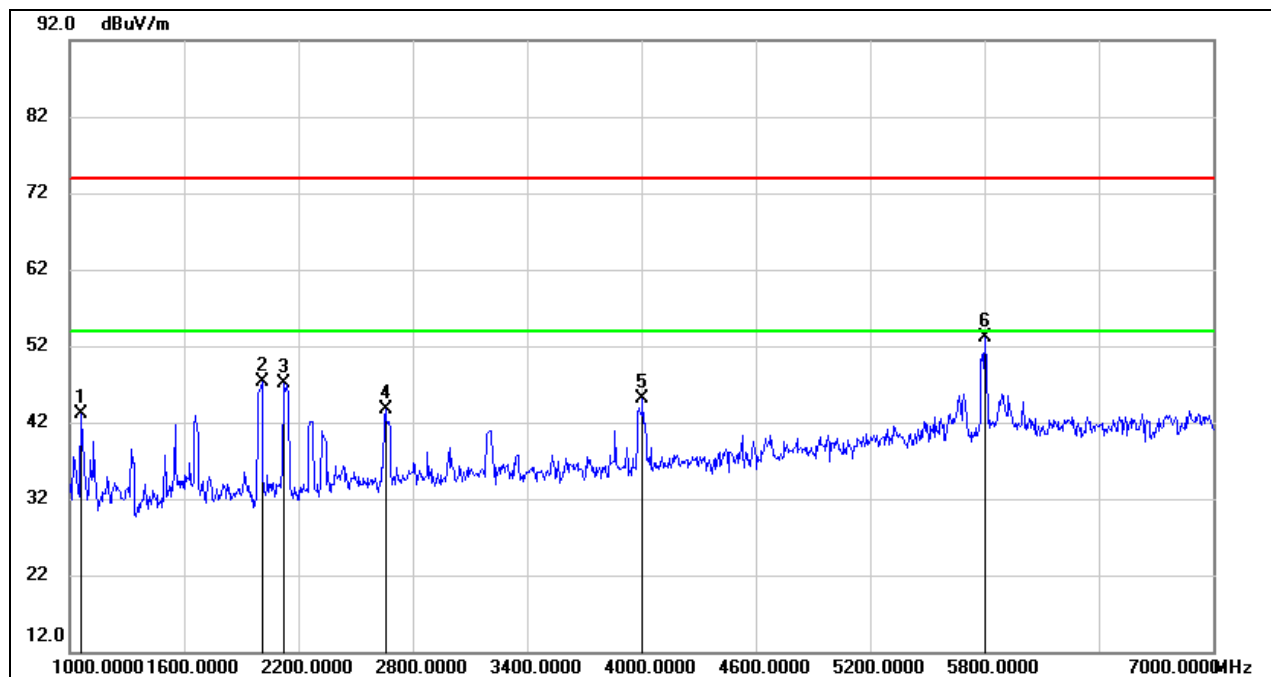


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7803.000	40.39	9.63	50.02	74.00	-23.98	peak
2	11642.000	36.69	14.42	51.11	74.00	-22.89	peak
3	12555.000	36.49	15.02	51.51	74.00	-22.49	peak
4	13809.000	34.82	17.49	52.31	74.00	-21.69	peak
5	17098.000	32.06	21.28	53.34	74.00	-20.66	peak
6	17714.000	30.82	22.71	53.53	74.00	-20.47	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**1-7GHz**



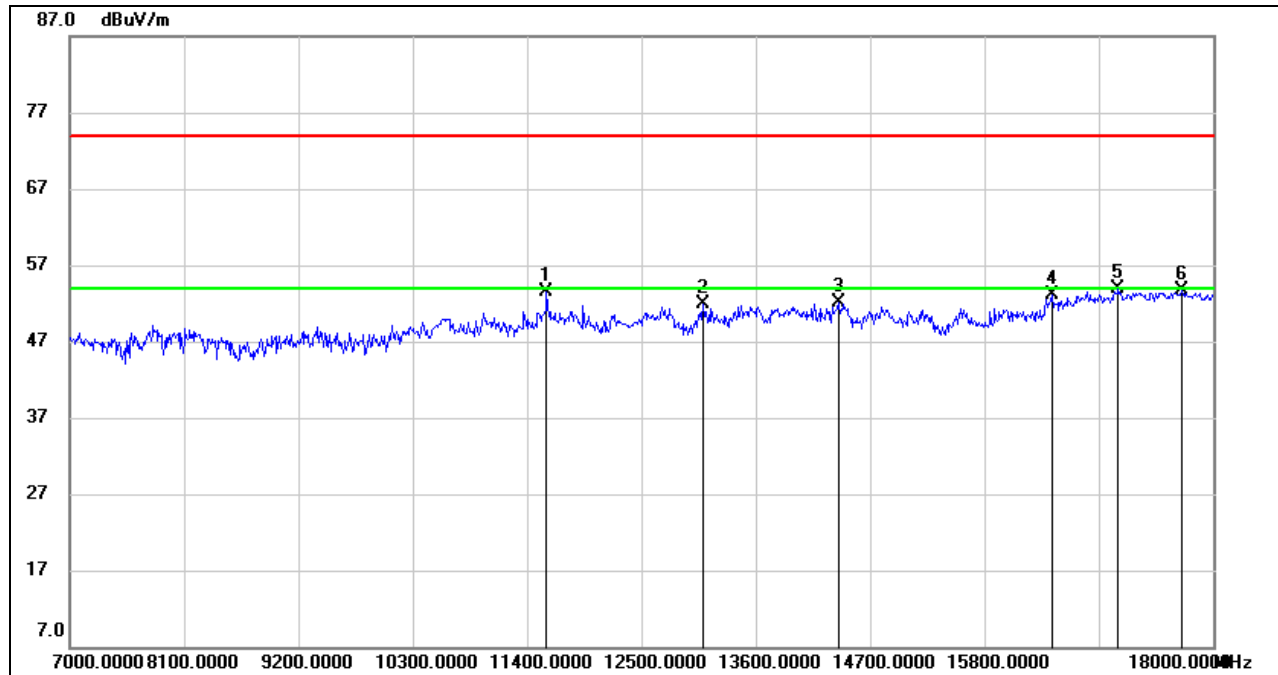
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1060.000	57.55	-14.51	43.04	74.00	-30.96	peak
2	2008.000	58.15	-10.81	47.34	74.00	-26.66	peak
3	2122.000	57.13	-10.11	47.02	74.00	-26.98	peak
4	2656.000	52.00	-8.21	43.79	74.00	-30.21	peak
5	4006.000	49.10	-4.07	45.03	74.00	-28.97	peak
6	5795.000	50.17	2.87	53.04	74.00	-20.96	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.





### 7-18GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11587.000	38.88	14.61	53.49	74.00	-20.51	peak
2	13094.000	36.38	15.45	51.83	74.00	-22.17	peak
3	14392.000	35.20	16.99	52.19	74.00	-21.81	peak
4	16449.000	33.48	19.61	53.09	74.00	-20.91	peak
5	17087.000	32.64	21.26	53.90	74.00	-20.10	peak
6	17692.000	31.13	22.54	53.67	74.00	-20.33	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The High Pass filter loss factor already add into the correct factor.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Owing to the highest peak level of unwanted emission out of the restricted bands complies with the lowest limit(54dBuV/m), so all the test point were deemed to comply with the limits list in the standard.

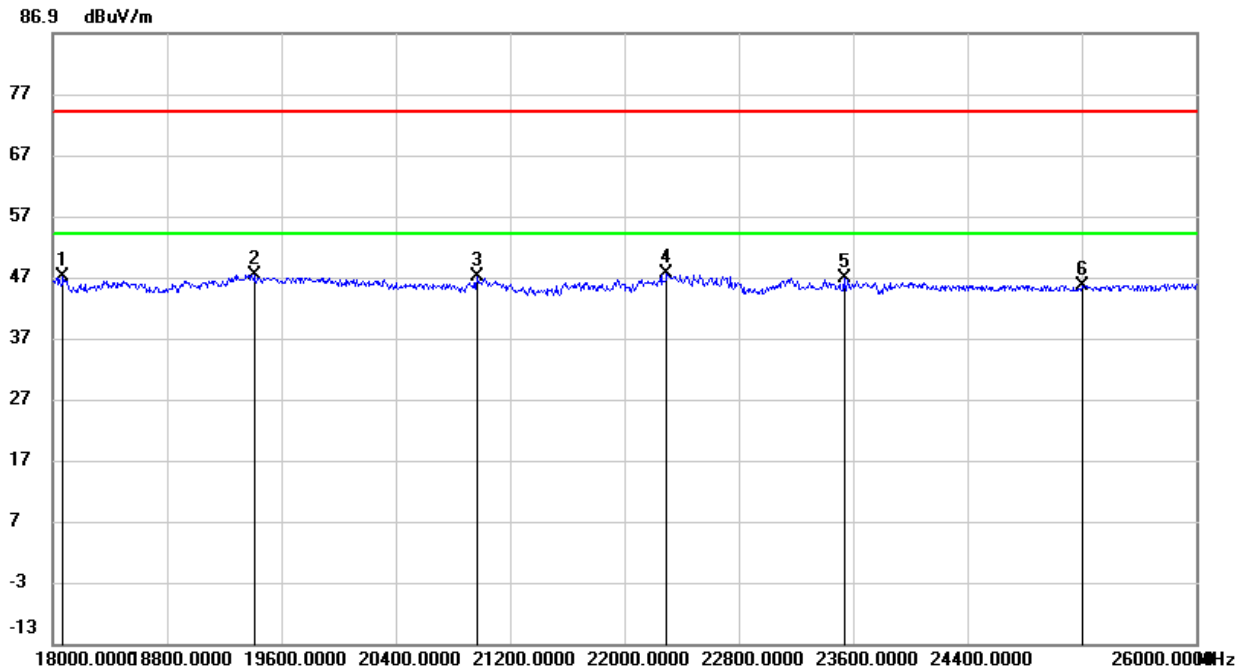


## 8.4. SPURIOUS EMISSIONS 18~26GHz

### 8.4.1. 802.11ac VHT20 MIMO MODE

#### UNII-1 MIMO MODE (WORST-CASE CONFIGURATION)

#### SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

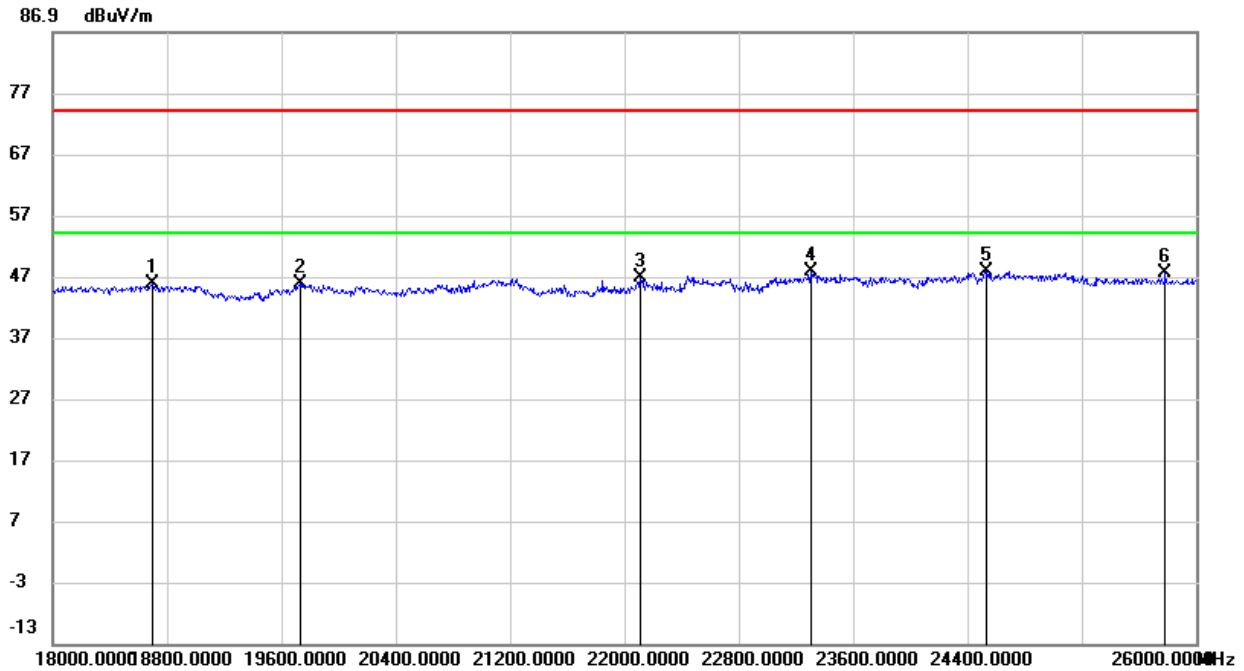


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18072.000	51.05	-4.02	47.03	74.00	-26.97	peak
2	19408.000	52.24	-4.89	47.35	74.00	-26.65	peak
3	20968.000	52.33	-5.26	47.07	74.00	-26.93	peak
4	22296.000	53.45	-6.01	47.44	74.00	-26.56	peak
5	23536.000	51.46	-4.74	46.72	74.00	-27.28	peak
6	25208.000	46.81	-1.16	45.65	74.00	-28.35	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.



### SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18696.000	50.58	-4.74	45.84	74.00	-28.16	peak
2	19728.000	50.16	-4.38	45.78	74.00	-28.22	peak
3	22112.000	52.97	-6.17	46.80	74.00	-27.20	peak
4	23304.000	52.87	-5.16	47.71	74.00	-26.29	peak
5	24528.000	50.36	-2.51	47.85	74.00	-26.15	peak
6	25784.000	49.08	-1.49	47.59	74.00	-26.41	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.

Note: All antennas and test modes have been tested, only the worst data record in the report.

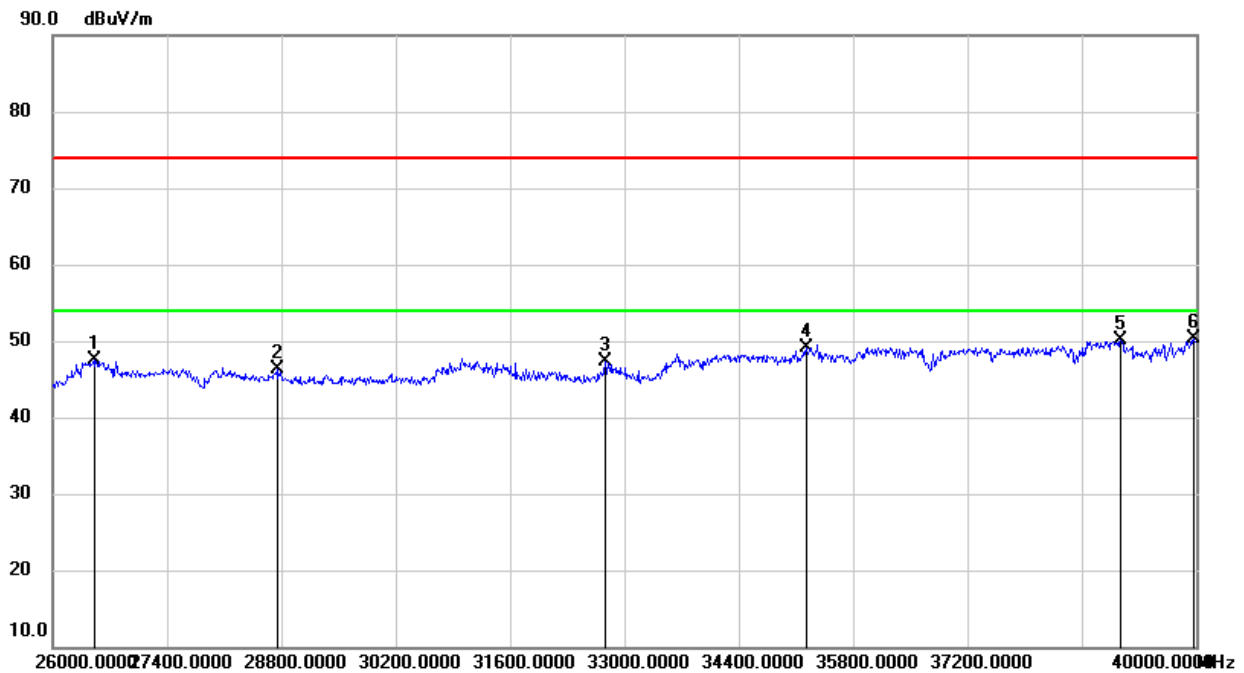


## 8.5. SPURIOUS EMISSIONS 26~40GHz

### 8.5.1. 802.11ac VHT20 MIMO MODE

#### UNII-1 MIMO MODE (WORST-CASE CONFIGURATION)

#### SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

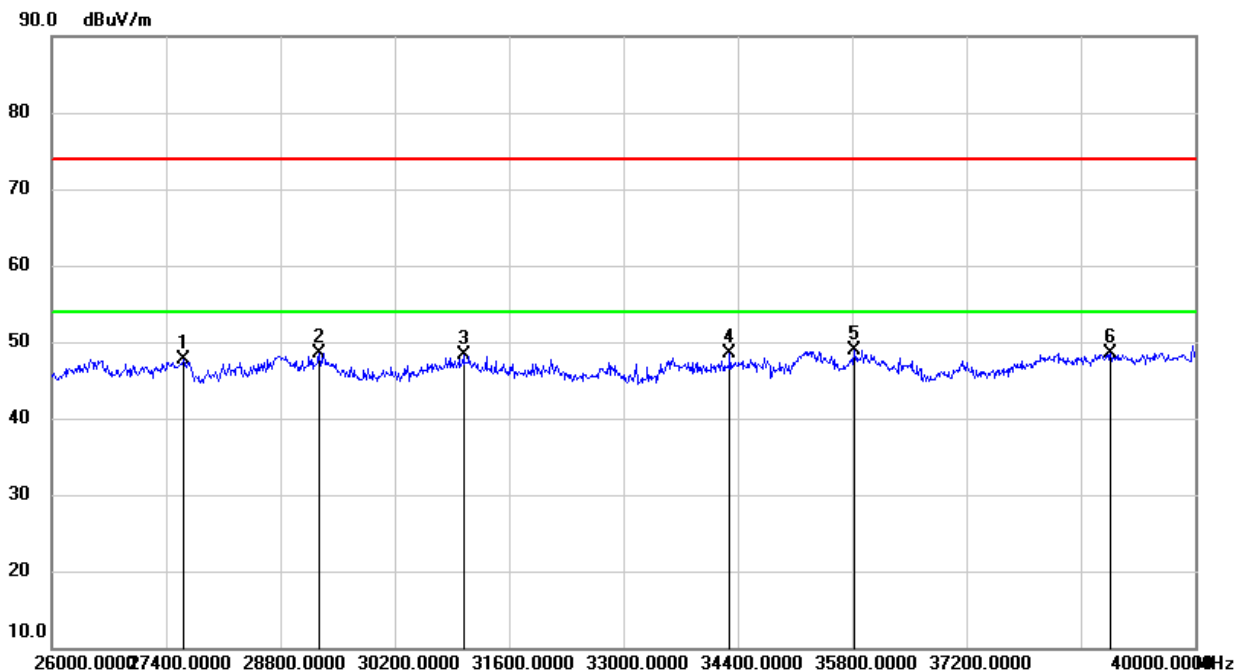


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	26504.000	52.13	-4.72	47.41	74.00	-26.59	peak
2	28744.000	46.86	-0.56	46.30	74.00	-27.70	peak
3	32762.000	48.45	-1.21	47.24	74.00	-26.76	peak
4	35226.000	46.56	2.53	49.09	74.00	-24.91	peak
5	39076.000	45.76	4.29	50.05	74.00	-23.95	peak
6	39972.000	45.08	5.13	50.21	74.00	-23.79	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.



### SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	27610.000	51.12	-3.47	47.65	74.00	-26.35	peak
2	29276.000	49.51	-1.01	48.50	74.00	-25.50	peak
3	31040.000	48.95	-0.72	48.23	74.00	-25.77	peak
4	34302.000	47.45	1.10	48.55	74.00	-25.45	peak
5	35828.000	45.25	3.67	48.92	74.00	-25.08	peak
6	38964.000	44.11	4.33	48.44	74.00	-25.56	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.

Note: All antennas and test modes have been tested, only the worst data record in the report.

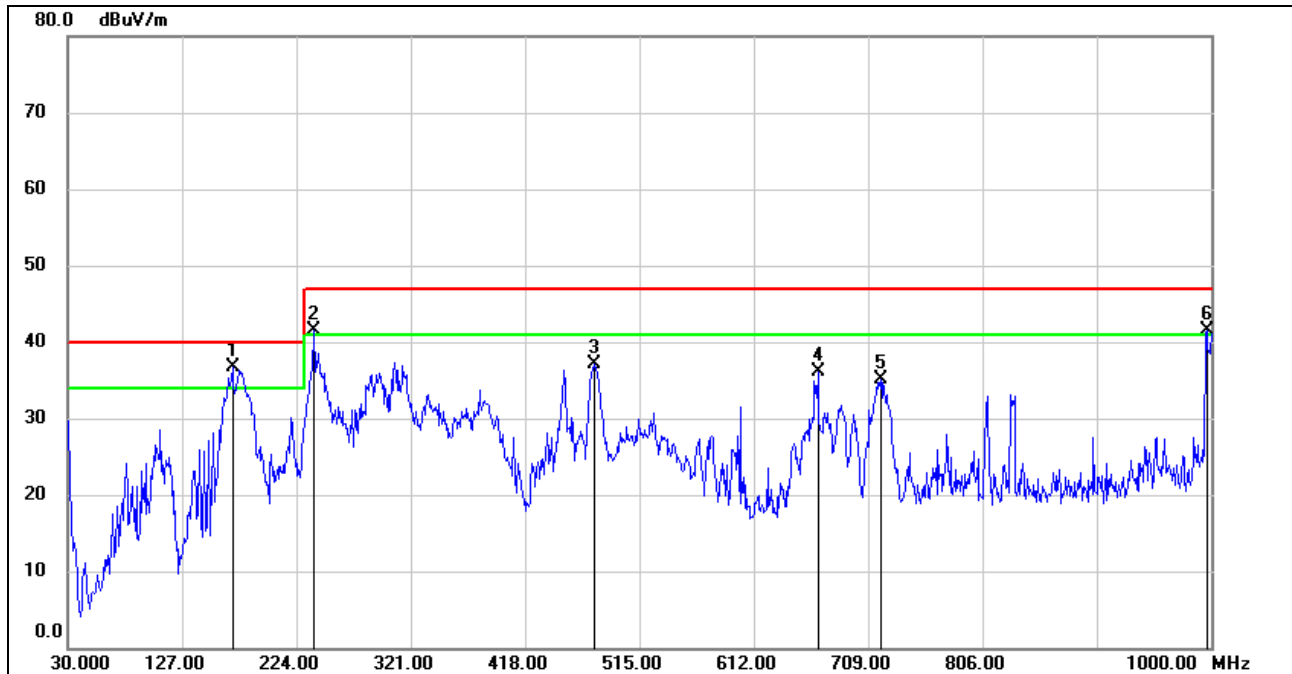


## 8.6. SPURIOUS EMISSIONS 30M ~ 1 GHz

### 8.6.1. 802.11ac VHT20 MIMO MODE

#### UNII-1 MIMO MODE (WORST-CASE CONFIGURATION)

#### SPURIOUS EMISSIONS (LOW CHANNEL HORIZONTAL)

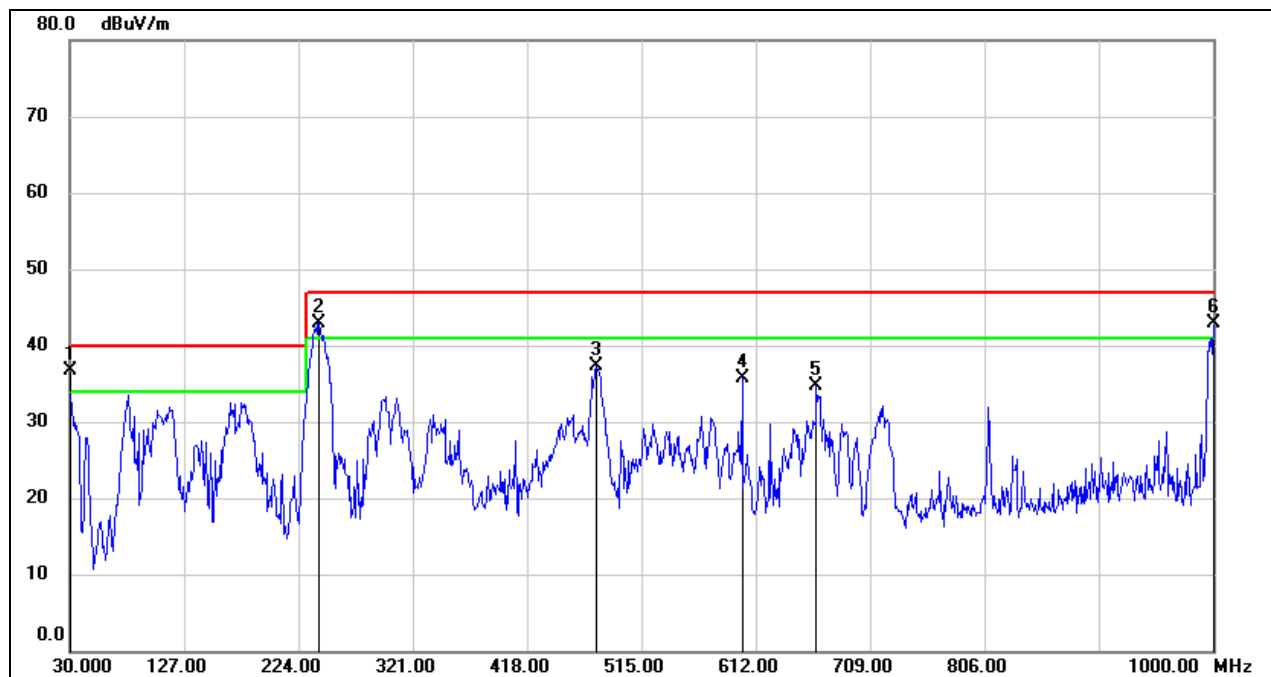


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	169.6799	53.52	-16.75	36.77	40.00	-3.23	QP
2	238.5500	58.44	-16.95	41.49	47.00	-5.51	QP
3	477.1700	47.99	-10.87	37.12	47.00	-9.88	QP
4	666.3200	43.42	-7.23	36.19	47.00	-10.81	QP
5	719.6700	41.10	-6.09	35.01	47.00	-11.99	QP
6	996.1200	44.70	-3.29	41.41	47.00	-5.59	QP

Note: 1. Result Level = Read Level + Correct Factor.  
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.  
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.



### SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.0000	54.05	-17.30	36.75	40.00	-3.25	QP
2	241.4600	59.73	-16.74	42.99	47.00	-4.01	QP
3	476.2000	48.29	-10.89	37.40	47.00	-9.60	QP
4	600.3600	43.96	-8.32	35.64	47.00	-11.36	QP
5	663.4099	41.92	-7.27	34.65	47.00	-12.35	QP
6	1000.0000	46.08	-3.24	42.84	47.00	-4.16	QP

Note: 1. Result Level = Read Level + Correct Factor.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

Note: All antennas and test modes have been tested, only the worst data record in the report.

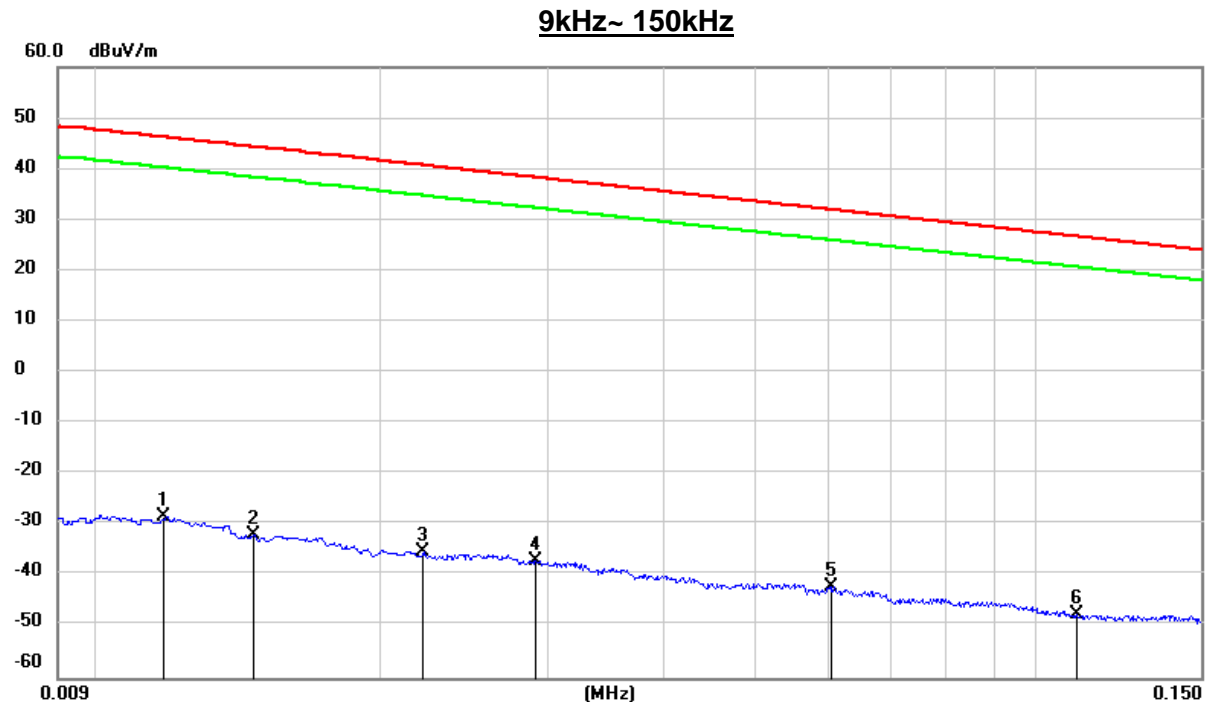


## 8.7. SPURIOUS EMISSIONS BELOW 30M

### 8.7.1. 802.11ac VHT20 MIMO MODE

#### UNII -1 MIMO MODE (WORST-CASE CONFIGURATION)

#### SPURIOUS EMISSIONS (LOW CHANNEL HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0117	72.98	-101.39	-28.41	46.24	-74.65	peak
2	0.0146	69.51	-101.37	-31.86	44.31	-76.17	peak
3	0.0221	66.13	-101.35	-35.22	40.71	-75.93	peak
4	0.0292	64.33	-101.39	-37.06	38.29	-75.35	peak
5	0.0604	59.42	-101.52	-42.10	31.98	-74.08	peak
6	0.1102	54.31	-101.77	-47.46	26.76	-74.22	peak

Note: 1. Measurement = Reading Level + Correct Factor.

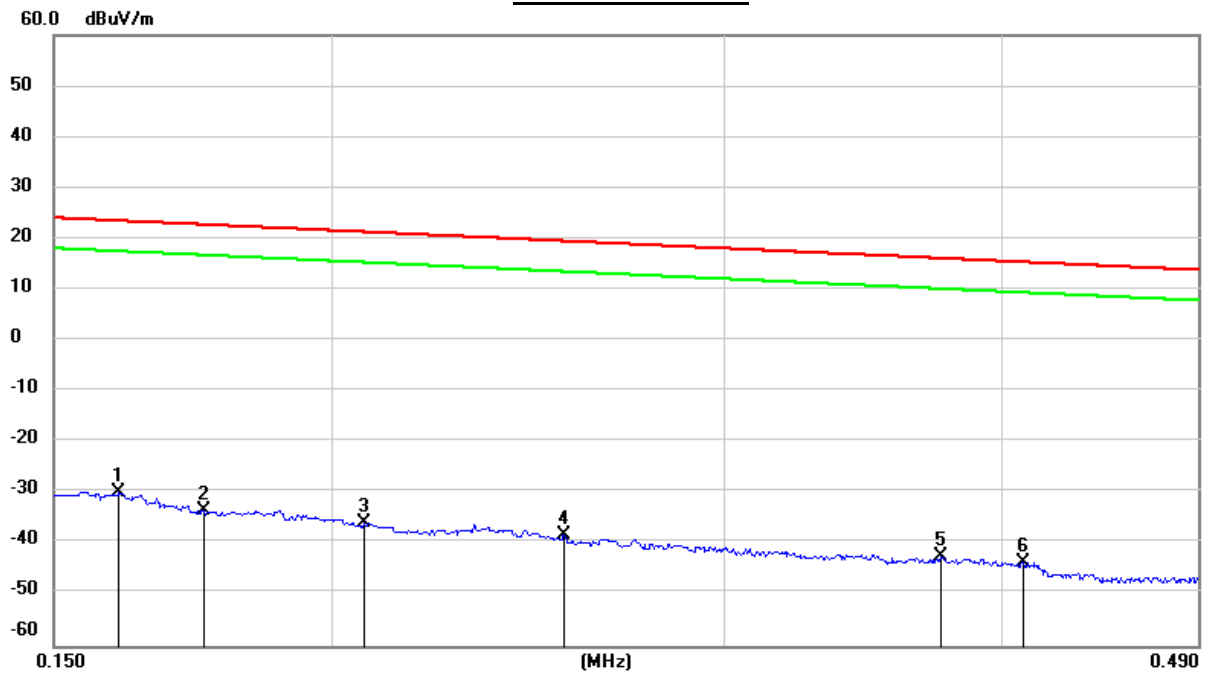
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.





**150kHz ~ 490kHz**

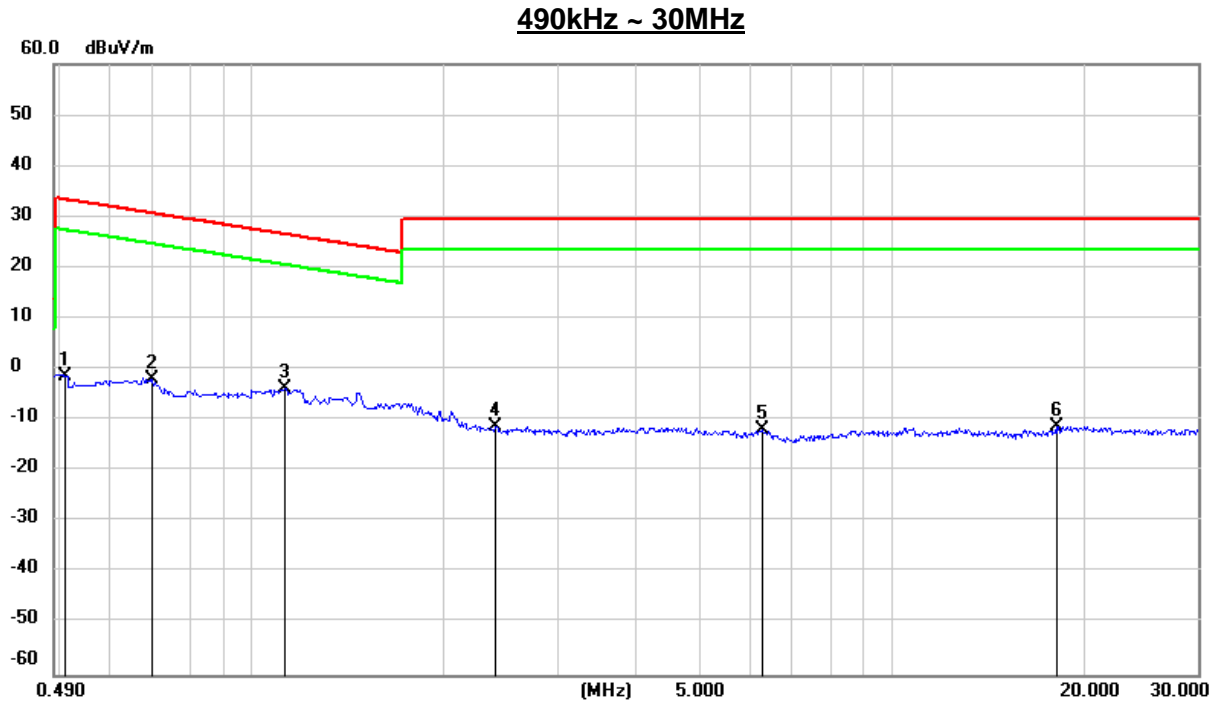


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1604	71.68	-101.65	-29.97	23.50	-53.47	peak
2	0.1751	68.23	-101.68	-33.45	22.74	-56.19	peak
3	0.2068	65.95	-101.73	-35.78	21.29	-57.07	peak
4	0.2544	63.52	-101.80	-38.28	19.49	-57.77	peak
5	0.3754	59.37	-101.93	-42.56	16.11	-58.67	peak
6	0.4091	58.43	-101.97	-43.54	15.36	-58.90	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.5106	60.80	-62.07	-1.27	33.44	-34.71	peak
2	0.6975	60.03	-62.11	-2.08	30.73	-32.81	peak
3	1.1250	58.56	-62.21	-3.65	26.58	-30.23	peak
4	2.4081	50.39	-61.72	-11.33	29.54	-40.87	peak
5	6.2740	49.41	-61.31	-11.90	29.54	-41.44	peak
6	18.0181	49.69	-60.91	-11.22	29.54	-40.76	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

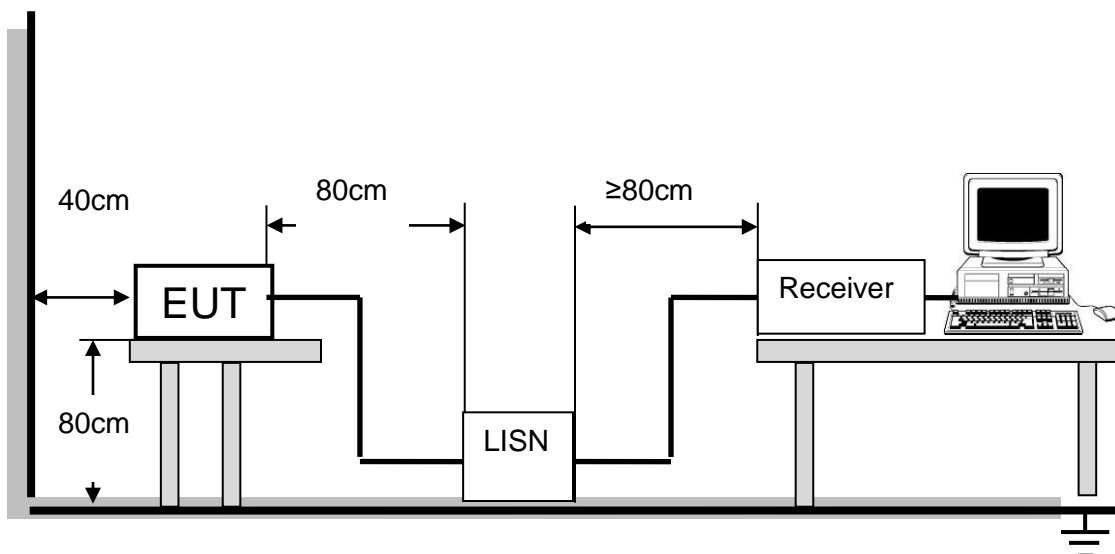
## 9. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISSED RSS-Gen Clause 8.8

FREQUENCY(MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

### TEST SETUP AND PROCEDURE



The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10 -2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

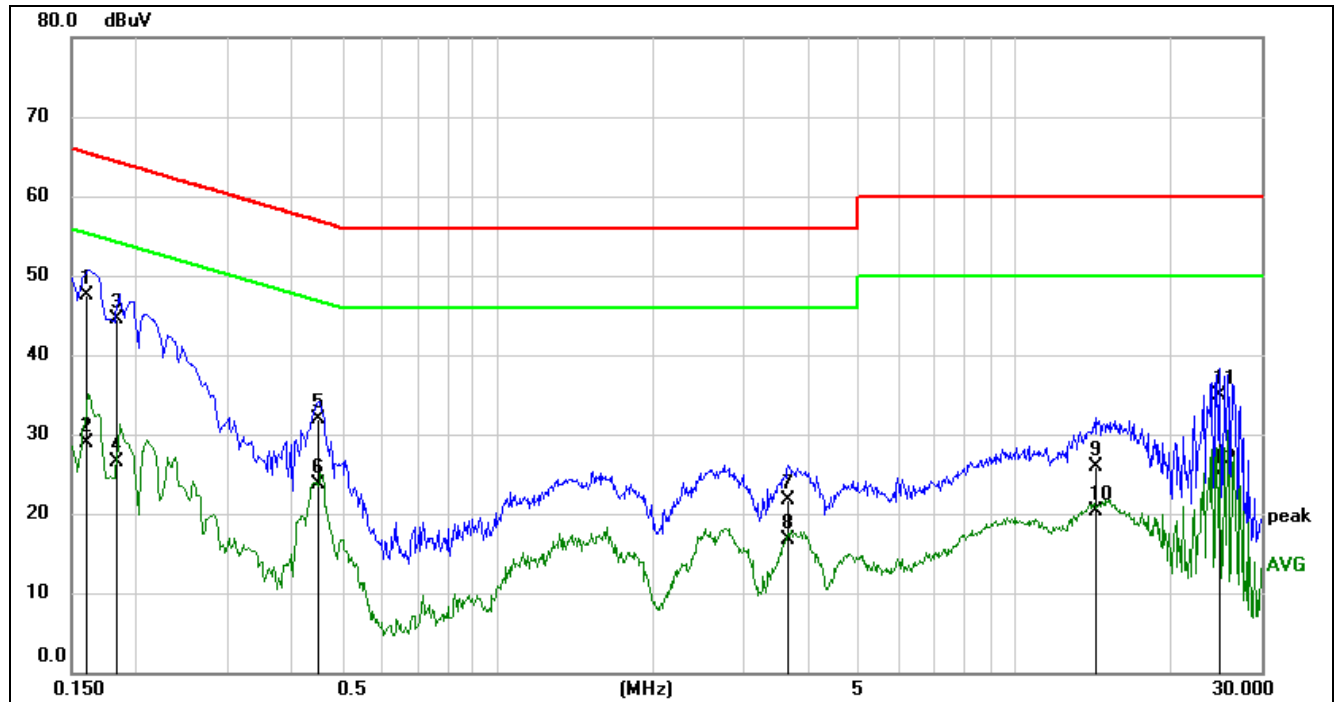
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

### TEST RESULTS



**9.1. 802.11ac VHT20 MIMO MODE**  
**UNII-1 MIMO MODE (WORST-CASE CONFIGURATION)**

**LINE N RESULTS (LOW CHANNEL)**

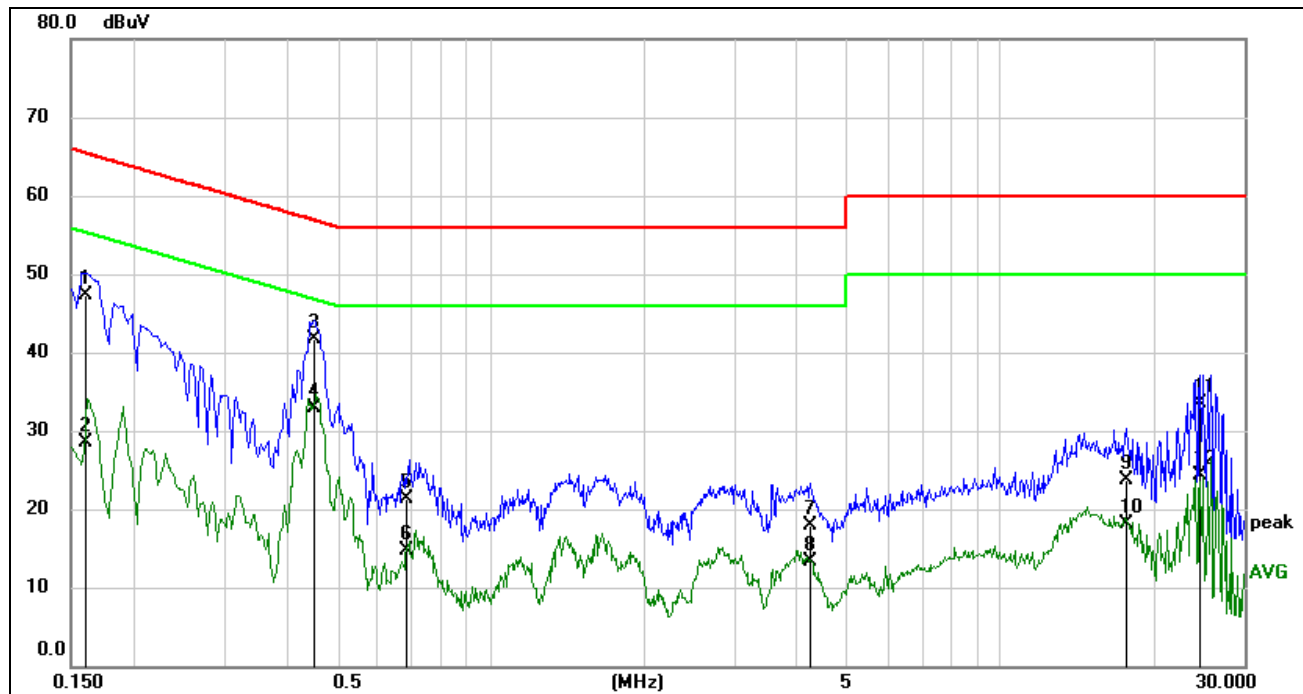


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1595	37.82	9.60	47.42	65.49	-18.07	QP
2	0.1595	19.23	9.60	28.83	55.49	-26.66	AVG
3	0.1830	34.85	9.60	44.45	64.35	-19.90	QP
4	0.1830	16.84	9.60	26.44	54.35	-27.91	AVG
5	0.4499	22.28	9.60	31.88	56.88	-25.00	QP
6	0.4499	14.05	9.60	23.65	46.88	-23.23	AVG
7	3.6431	12.04	9.66	21.70	56.00	-34.30	QP
8	3.6431	7.07	9.66	16.73	46.00	-29.27	AVG
9	14.4455	16.06	9.88	25.94	60.00	-34.06	QP
10	14.4455	10.38	9.88	20.26	50.00	-29.74	AVG
11	24.8396	24.76	10.07	34.83	60.00	-25.17	QP
12	24.8396	14.87	10.07	24.94	50.00	-25.06	AVG

- Note: 1. Result = Reading +Correct Factor.  
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).  
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.



### LINE L RESULTS (LOW CHANNEL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1594	37.69	9.61	47.30	65.50	-18.20	QP
2	0.1594	18.92	9.61	28.53	55.50	-26.97	AVG
3	0.4495	32.02	9.60	41.62	56.88	-15.26	QP
4	0.4495	23.36	9.60	32.96	46.88	-13.92	AVG
5	0.6848	11.62	9.60	21.22	56.00	-34.78	QP
6	0.6848	5.17	9.60	14.77	46.00	-31.23	AVG
7	4.2376	8.25	9.66	17.91	56.00	-38.09	QP
8	4.2376	3.67	9.66	13.33	46.00	-32.67	AVG
9	17.5699	13.64	9.99	23.63	60.00	-36.37	QP
10	17.5699	8.17	9.99	18.16	50.00	-31.84	AVG
11	24.5370	23.58	9.97	33.55	60.00	-26.45	QP
12	24.5370	14.24	9.97	24.21	50.00	-25.79	AVG

- Note: 1. Result = Reading +Correct Factor.  
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).  
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

Note: All antennas and test modes have been tested, only the worst data record in the report.



## 10. FREQUENCY STABILITY

### LIMITS

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

### TEST SETUP AND PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

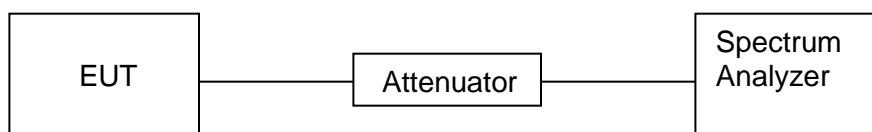
Center Frequency	The center frequency of the channel under test
Detector	PEAK
RBW	10kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

User manual temperature is 0°C~40°C.

### TEST SETUP



	Normal Test Conditions	Extreme Test Conditions
Temperature	NT(Normal Temperature): 23.5°C	LT(Low Temperature): 0°C
		HT(High Temperature): 40°C
Supply Voltage	NV(Normal Voltage): DC 3.3V	LT(Low Voltage): DC 4.25V
		HT(High Voltage): DC 5.75V



## TEST RESULTS

Frequency Error vs. Voltage									
802.11a:5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5200.0312	6.00	5200.0132	2.54	5200.0123	2.37	5200.0131	2.52
TN	VN	5200.0322	6.19	5200.0321	6.17	5200.0214	4.12	5200.0321	6.17
TN	VH	5200.0332	6.38	5200.0344	6.62	5200.0241	4.63	5200.0241	4.63
Frequency Error vs. Temperature									
802.11a:5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	VN	5200.0231	4.44	5200.0231	4.44	5200.0231	4.44	5200.0321	6.17
30	VN	5200.0312	6.00	5200.0124	2.38	5200.0153	2.94	5200.0254	4.88
20	VN	5200.0325	6.25	5200.0231	4.44	5200.0232	4.46	5200.0217	4.17
10	VN	5200.0213	4.10	5200.0234	2.44	5200.0212	4.08	5200.0128	2.46
0	VN	5200.0142	2.73	5200.0341	4.55	5200.0255	4.90	5200.0254	4.88

Frequency Error vs. Voltage									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5825.0312	5.36	5825.0323	5.55	5825.0164	2.82	5825.0255	4.38
TN	VN	5825.0312	5.36	5825.0314	5.39	5825.0321	5.51	5825.0312	5.36
TN	VH	5825.0132	2.27	5825.0312	5.36	5825.0213	3.66	5825.0232	3.98
Frequency Error vs. Temperature									
802.11a:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	VN	5825.0235	4.04	5825.0213	3.66	5825.0321	5.51	5825.0343	5.89
30	VN	5825.0352	6.05	5825.0334	5.74	5825.0245	4.20	5825.0341	5.86
20	VN	5825.0443	7.61	5825.0465	7.99	5825.0354	6.08	5825.0254	4.37
10	VN	5785.0231	3.99	5200.0301	5.79	5200.0303	5.83	5200.0333	6.40
0	VN	5785.0321	5.55	5200.0221	4.25	5200.0311	5.98	5200.0278	5.35

Note: All antennas and test modes have been tested, only the worst data record in the report.



## 11. DYNAMIC FREQUENCY SELECTION

### APPLICABILITY OF DFS REQUIREMENTS

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	<input type="checkbox"/> Master	<input checked="" type="checkbox"/> Client Without Radar Detection	<input type="checkbox"/> Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	<input type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	<input type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

Transmit power control (TPC).	<input checked="" type="checkbox"/> Support	<input type="checkbox"/> Nonsupport
The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.		





## LIMITS

### (1) DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.  
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.  
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

### (2) DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.  
Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.  
Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

**PARAMETERS OF RADAR TEST WAVEFORMS**

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

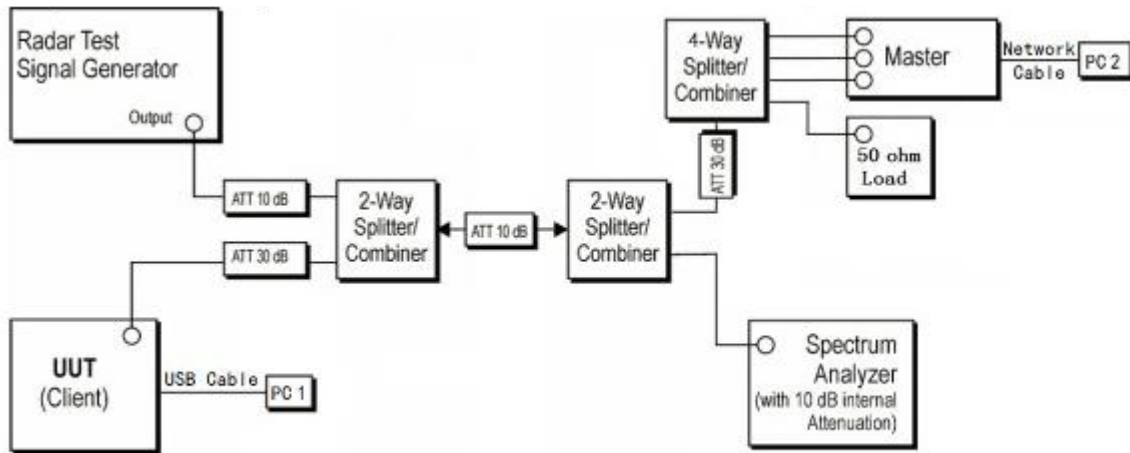
Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A	Roundup $\left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A					

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4

## TEST SETUP

Setup for Client with injection at the Master

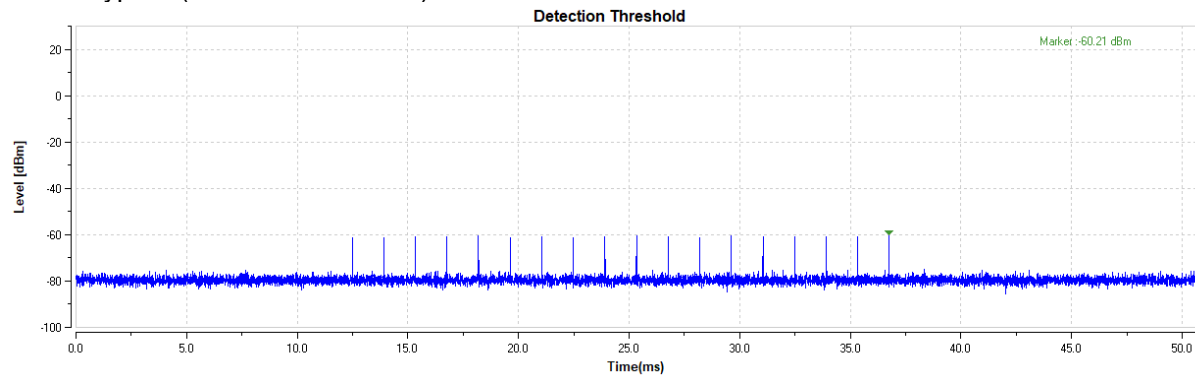


### DFS Detection Threshold levels

DFS Threshold Level:-60

The Interference **Radar Detection Threshold Level** is  $(-62\text{dBm}) + (1 [\text{dBi}]) + (1 \text{ dB}) = -60.0 \text{ dBm}$ . That had been taken into account the master output power range and antenna gain.  
The Master antenna Gain is 1 dBi.

Radar Type 0 (40MHz / 5510MHz)



## SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	FCC ID
1	Master Device	HUAWEI	EG8247Q	QISEG8247Q



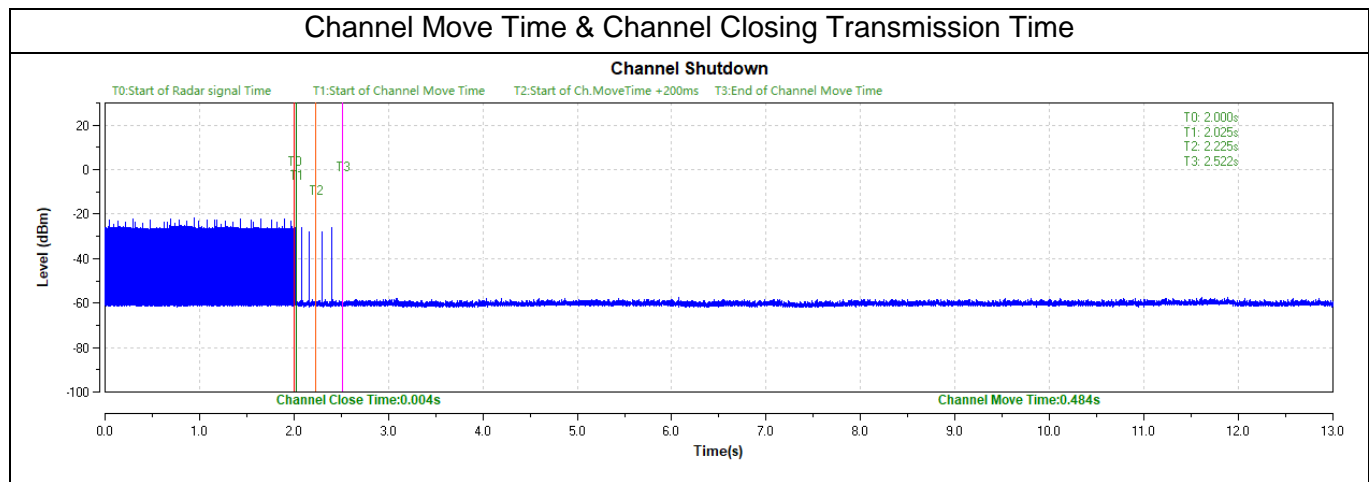
### CHANNEL LOADING/DATA STEAMING

IP Based (Load Based) - stream the test file from the Master to the Client.	
<input type="checkbox"/>	The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.
<input type="checkbox"/>	Software to ping the client is permitted to simulate data transfer but must have random ping intervals.
<input checked="" type="checkbox"/>	Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time). This can be done with any appropriate channel BW and modulation type.
<input type="checkbox"/>	Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.

### Test Data

BW/Channel	Test Item	Test Result	Limit	Results
40MHz / 5510MHz	Channel Move Time	0.484S s	< 10 s	pass
	Channel Closing Transmission Time	0.004S s	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.	pass

Test plots as follows:





## **12. ANTENNA REQUIREMENTS**

### **APPLICABLE REQUIREMENTS**

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **RESULTS**

Complies

### **END OF REPORT**