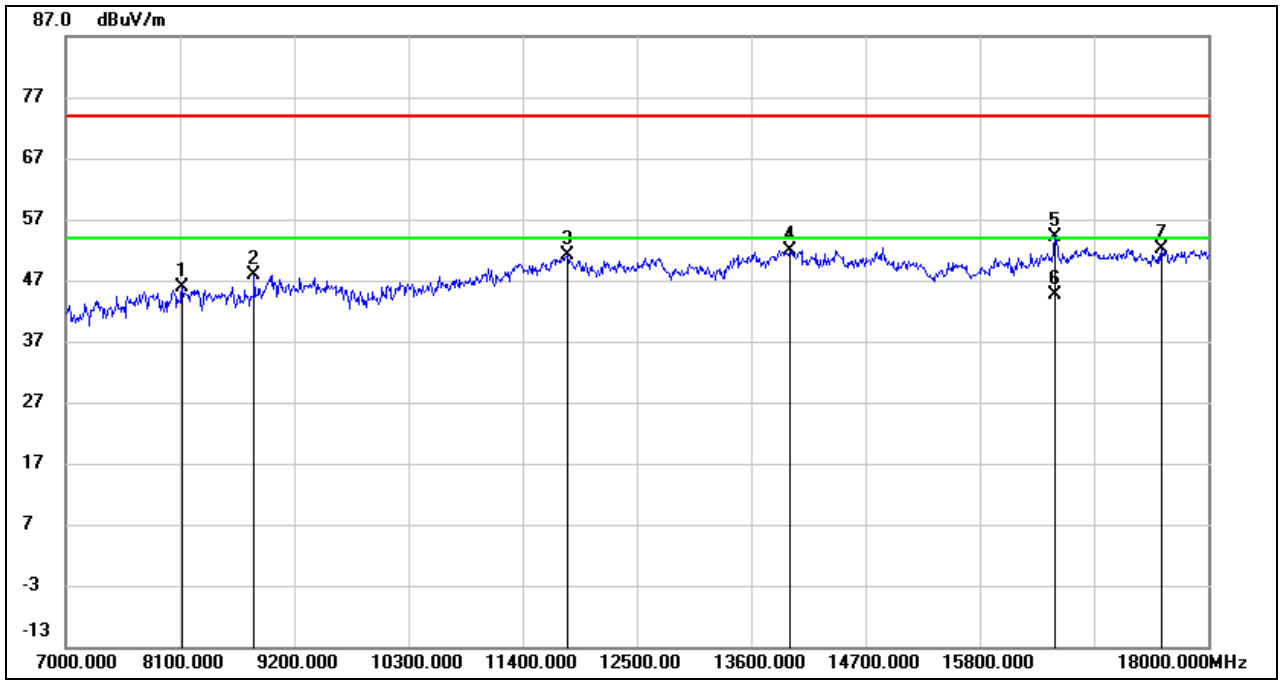
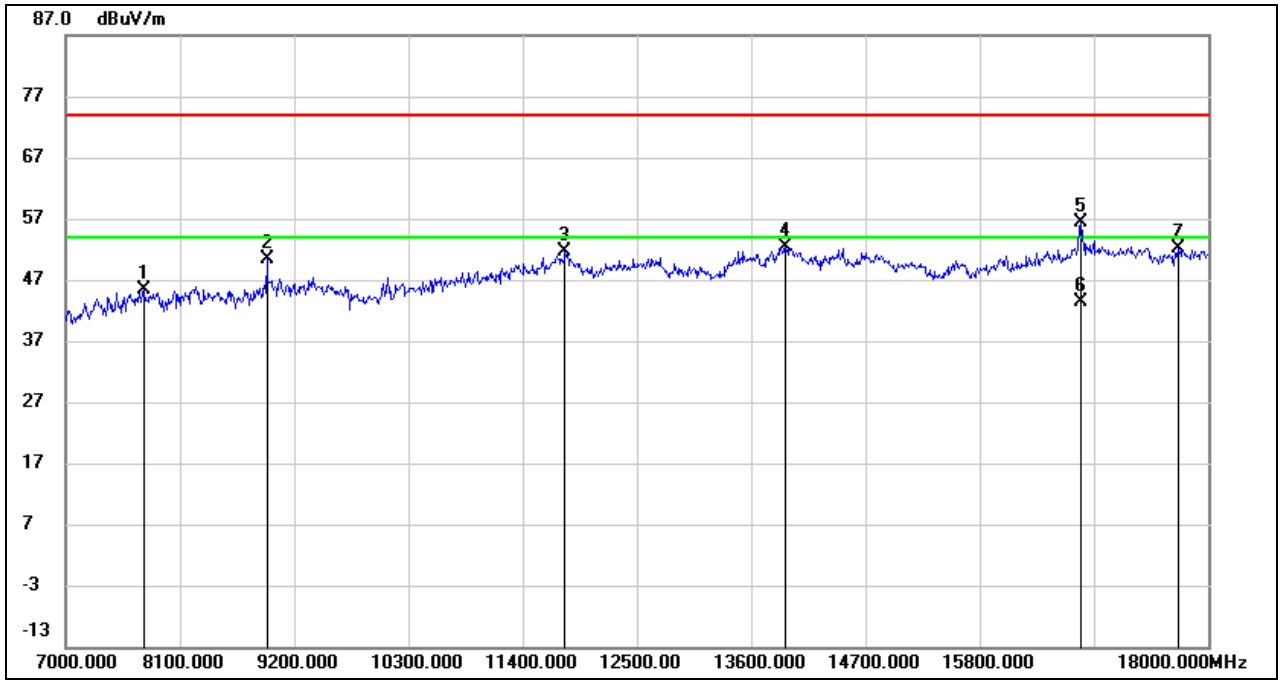
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8122.000	38.69	7.12	45.81	74.00	-28.19	peak
2	8815.000	39.92	7.88	47.80	74.00	-26.20	peak
3	11829.000	35.77	15.47	51.24	74.00	-22.76	peak
4	13979.500	32.97	18.92	51.89	74.00	-22.11	peak
5	16531.500	34.30	19.89	54.19	74.00	-19.81	peak
6	16531.500	24.76	19.89	44.65	54.00	-9.35	AVG
7	17549.000	30.74	21.37	52.11	74.00	-21.89	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

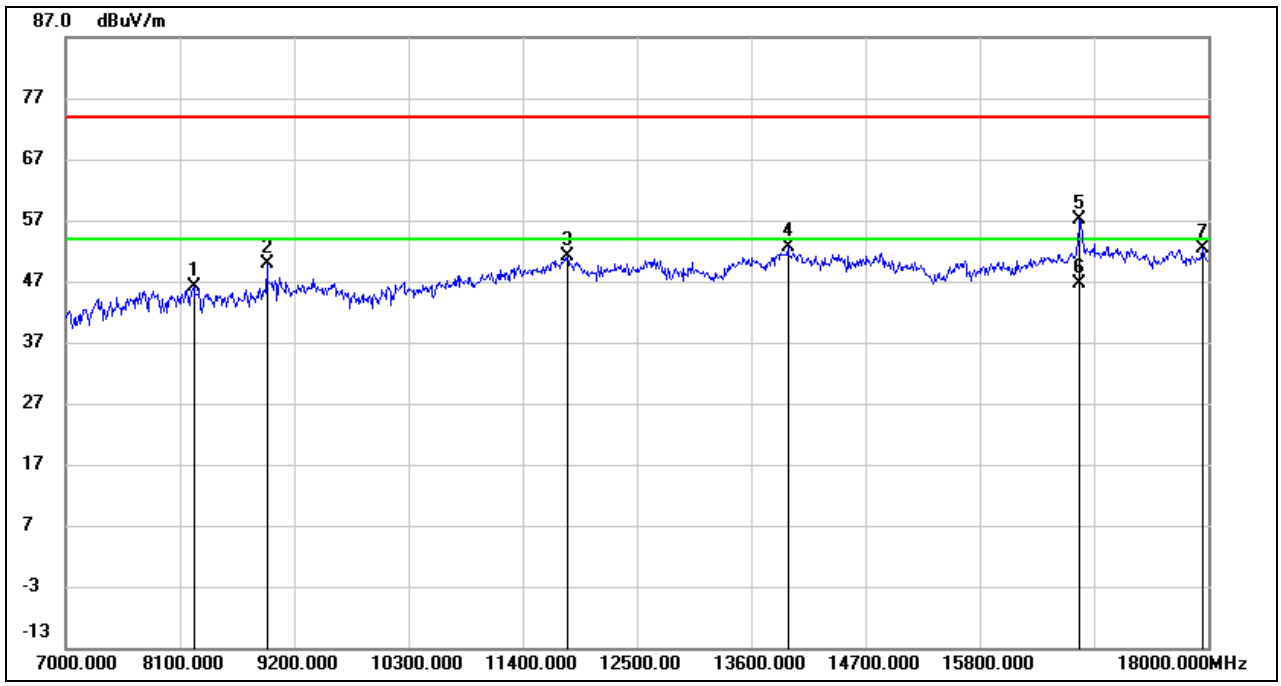
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7753.500	38.85	6.57	45.42	74.00	-28.58	peak
2	8941.500	40.99	9.35	50.34	74.00	-23.66	peak
3	11812.500	36.05	15.47	51.52	74.00	-22.48	peak
4	13935.500	33.47	18.85	52.32	74.00	-21.68	peak
5	16784.500	36.05	20.24	56.29	74.00	-17.71	peak
6	16784.500	23.21	20.24	43.45	54.00	-10.55	AVG
7	17719.500	29.66	22.44	52.10	74.00	-21.90	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

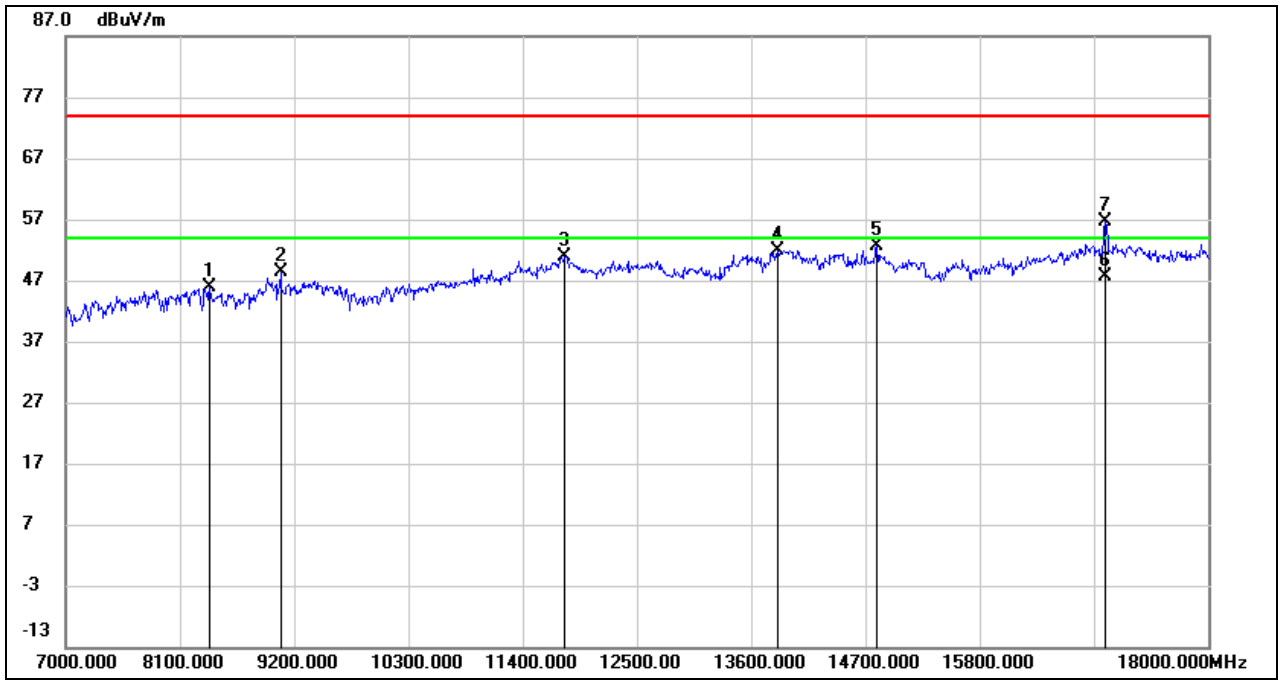
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8232.000	38.33	7.78	46.11	74.00	-27.89	peak
2	8941.500	40.55	9.35	49.90	74.00	-24.10	peak
3	11829.000	35.78	15.47	51.25	74.00	-22.75	peak
4	13952.000	33.69	18.88	52.57	74.00	-21.43	peak
5	16762.500	36.97	20.23	57.20	74.00	-16.80	peak
6	16762.500	26.42	20.23	46.65	54.00	-7.35	AVG
7	17945.000	29.38	23.00	52.38	74.00	-21.62	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

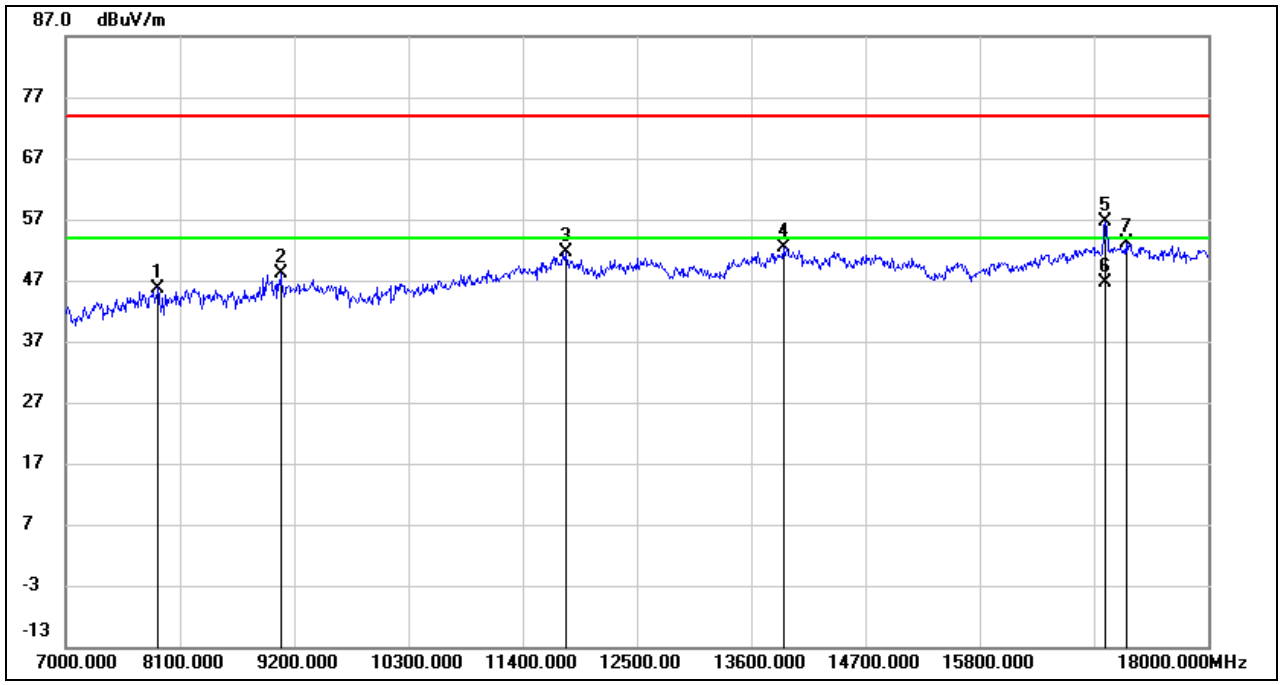
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8391.500	38.52	7.34	45.86	74.00	-28.14	peak
2	9068.000	38.71	9.60	48.31	74.00	-25.69	peak
3	11812.500	35.44	15.47	50.91	74.00	-23.09	peak
4	13858.500	33.24	18.75	51.99	74.00	-22.01	peak
5	14810.000	34.99	17.74	52.73	74.00	-21.27	peak
6	17010.000	26.95	20.70	47.65	54.00	-6.35	AVG
7	17010.000	36.00	20.70	56.70	74.00	-17.30	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

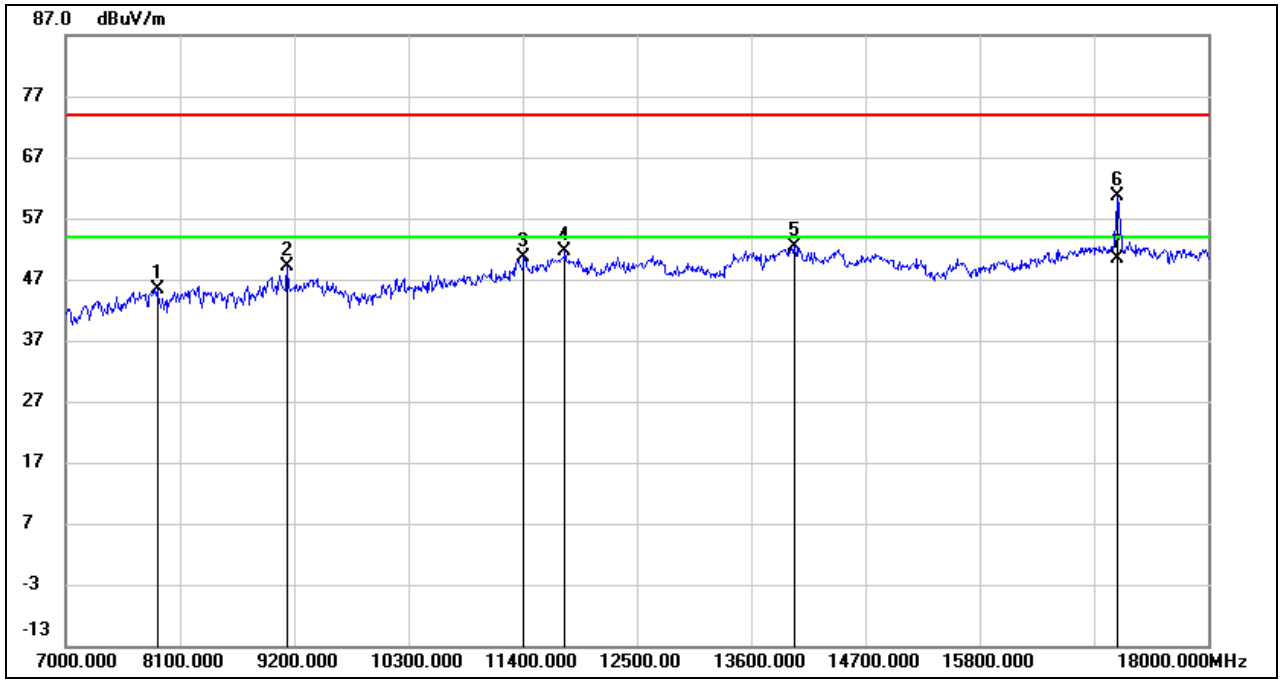


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7891.000	39.38	6.37	45.75	74.00	-28.25	peak
2	9068.000	38.59	9.60	48.19	74.00	-25.81	peak
3	11818.000	36.21	15.47	51.68	74.00	-22.32	peak
4	13908.000	33.55	18.82	52.37	74.00	-21.63	peak
5	17010.000	35.93	20.70	56.63	74.00	-17.37	peak
6	17010.000	25.95	20.70	46.65	54.00	-7.35	AVG
7	17208.000	31.63	21.44	53.07	74.00	-20.93	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

STRADDLE CHANNEL 142 – PIFA ANTENNA

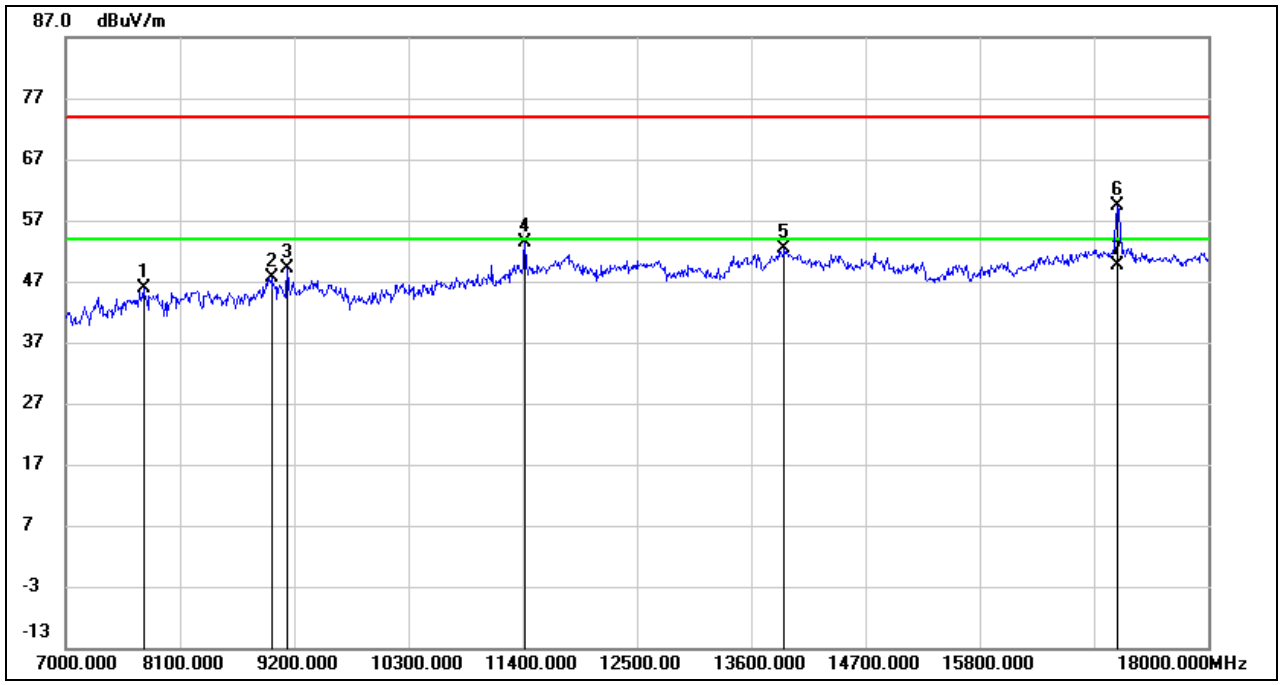
HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7885.500	39.09	6.39	45.48	74.00	-28.52	peak
2	9134.000	40.02	9.18	49.20	74.00	-24.80	peak
3	11416.500	36.85	13.70	50.55	74.00	-23.45	peak
4	11807.000	36.23	15.48	51.71	74.00	-22.29	peak
5	14018.000	33.43	18.90	52.33	74.00	-21.67	peak
6	17136.500	39.44	21.20	60.64	74.00	-13.36	peak
7	17136.500	29.12	21.20	50.32	54.00	-3.68	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)

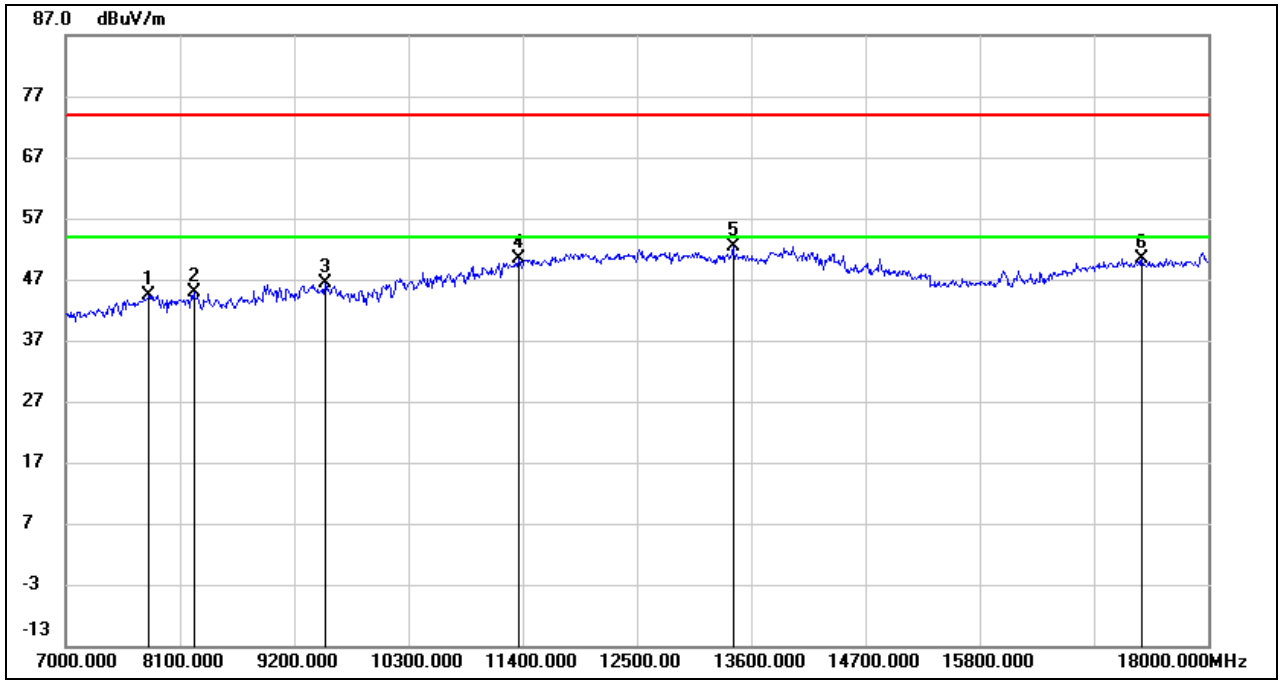


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7753.500	39.39	6.57	45.96	74.00	-28.04	peak
2	8985.500	37.69	9.86	47.55	74.00	-26.45	peak
3	9134.000	39.95	9.18	49.13	74.00	-24.87	peak
4	11422.000	39.72	13.72	53.44	74.00	-20.56	peak
5	13919.000	33.45	18.83	52.28	74.00	-21.72	peak
6	17136.500	38.26	21.20	59.46	74.00	-14.54	peak
7	17136.500	28.45	21.20	49.65	54.00	-4.35	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-3 BAND – PIFA ANTENNA

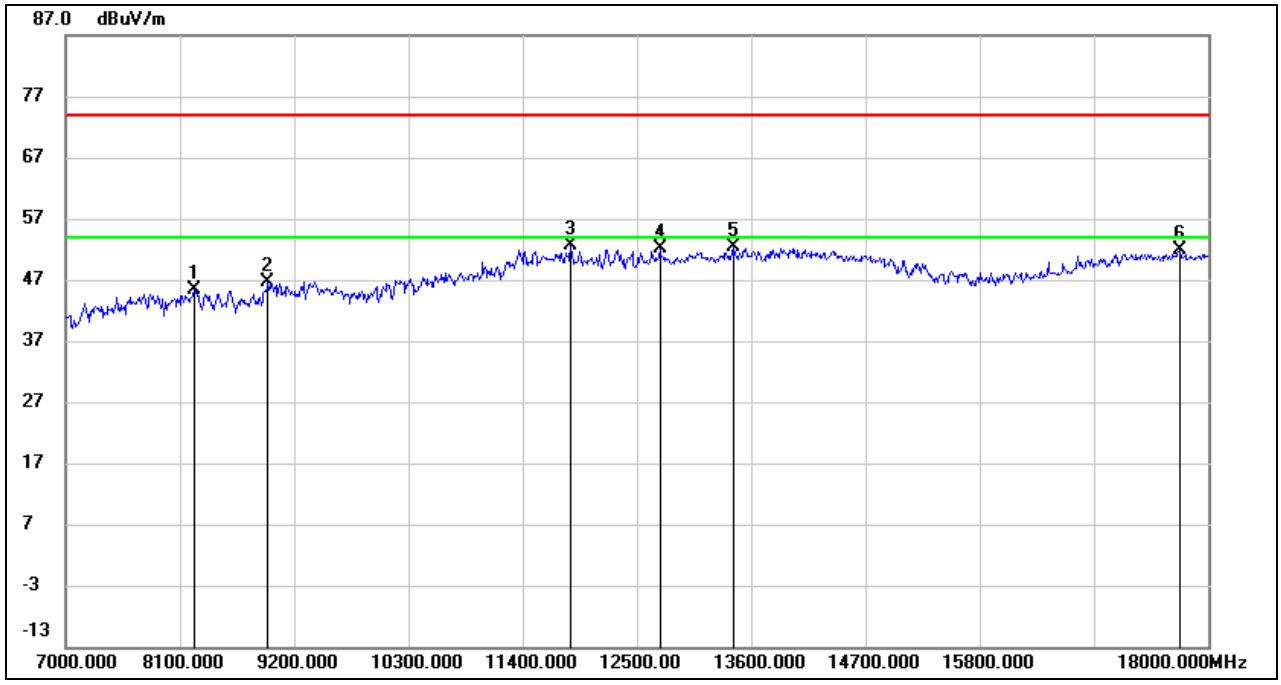
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7808.500	38.33	6.05	44.38	74.00	-29.62	peak
2	8232.000	37.75	7.14	44.89	74.00	-29.11	peak
3	9502.500	36.53	9.93	46.46	74.00	-27.54	peak
4	11356.000	35.46	15.04	50.50	74.00	-23.50	peak
5	13429.500	32.98	19.30	52.28	74.00	-21.72	peak
6	17367.500	30.22	20.20	50.42	74.00	-23.58	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

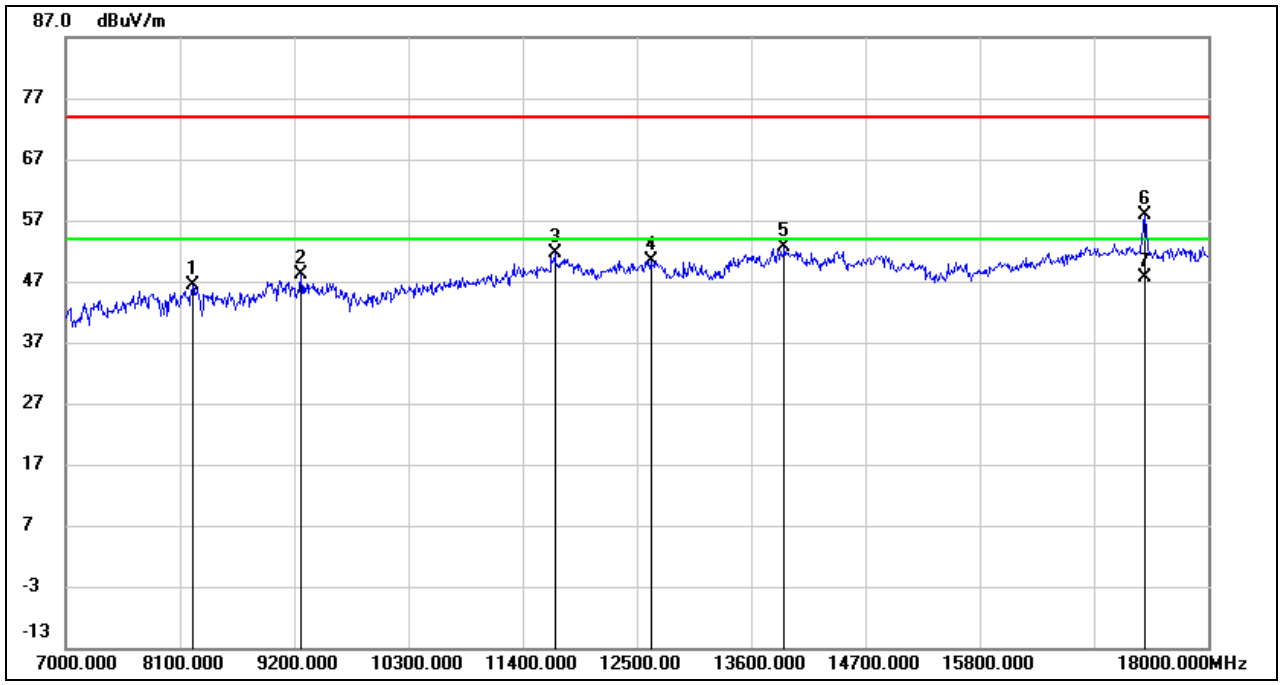
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8232.000	38.27	7.14	45.41	74.00	-28.59	peak
2	8947.000	37.78	8.89	46.67	74.00	-27.33	peak
3	11862.000	35.42	17.19	52.61	74.00	-21.39	peak
4	12720.000	34.96	17.09	52.05	74.00	-21.95	peak
5	13424.000	33.00	19.28	52.28	74.00	-21.72	peak
6	17725.000	29.45	22.41	51.86	74.00	-22.14	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

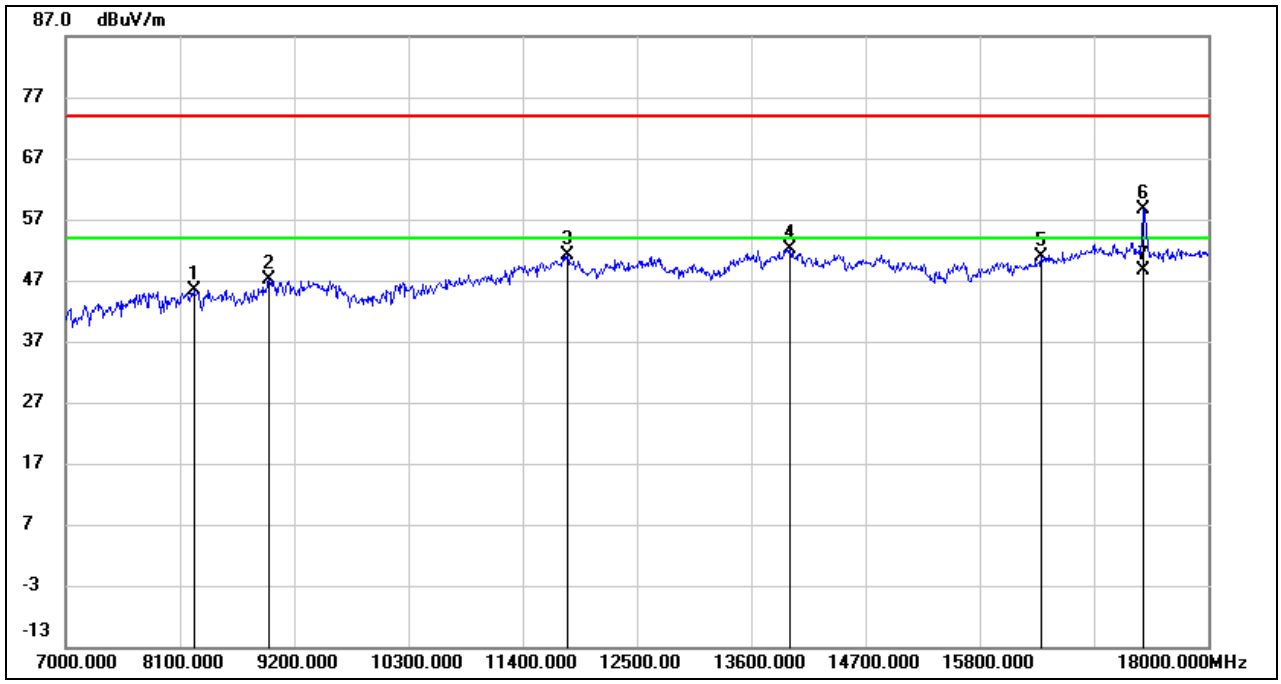
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8226.500	38.59	7.79	46.38	74.00	-27.62	peak
2	9271.500	39.07	9.15	48.22	74.00	-25.78	peak
3	11708.000	36.73	14.88	51.61	74.00	-22.39	peak
4	12632.000	34.81	15.54	50.35	74.00	-23.65	peak
5	13919.000	33.72	18.83	52.55	74.00	-21.45	peak
6	17389.500	36.74	21.13	57.87	74.00	-16.13	peak
7	17389.500	26.52	21.13	47.65	54.00	-6.35	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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



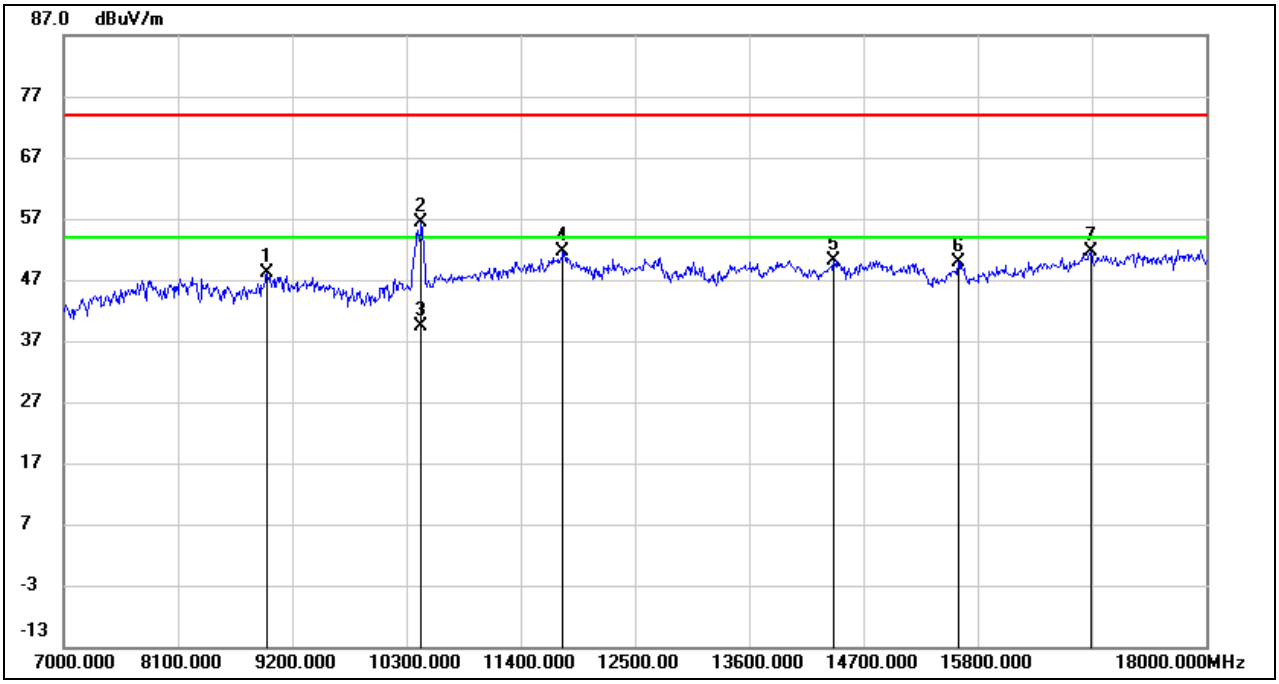
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8232.000	37.63	7.78	45.41	74.00	-28.59	peak
2	8963.500	37.52	9.60	47.12	74.00	-26.88	peak
3	11829.000	35.55	15.47	51.02	74.00	-22.98	peak
4	13974.000	33.13	18.91	52.04	74.00	-21.96	peak
5	16394.000	31.45	19.35	50.80	74.00	-23.20	peak
6	17378.500	37.53	21.14	58.67	74.00	-15.33	peak
7	17378.500	27.51	21.14	48.65	54.00	-5.35	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

8.3.4. 802.11ac VHT80 SISO MODE

UNII-1 BAND – PCB ANTENNA

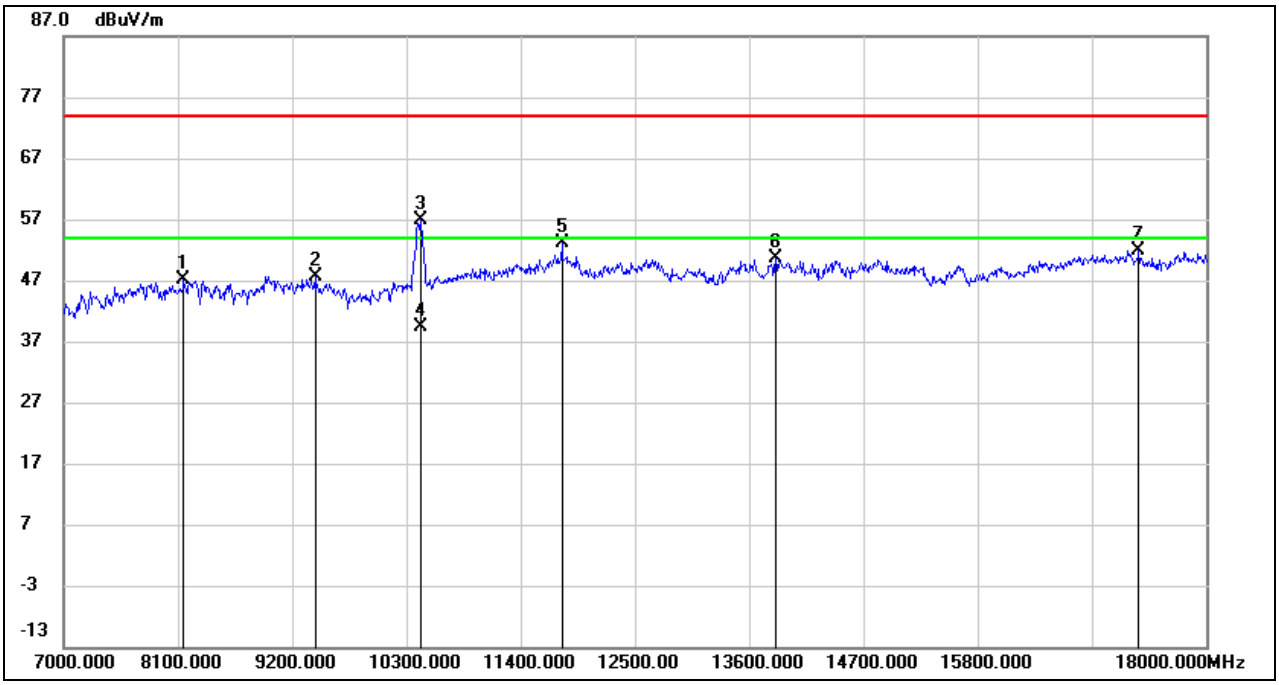
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8958.000	37.87	10.19	48.06	74.00	-25.94	peak
2	10443.000	44.73	11.67	56.40	74.00	-17.60	peak
3	10443.000	27.81	11.67	39.48	54.00	-14.52	AVG
4	11807.000	36.03	15.61	51.64	74.00	-22.36	peak
5	14414.000	33.34	16.82	50.16	74.00	-23.84	peak
6	15613.000	33.25	16.71	49.96	74.00	-24.04	peak
7	16889.000	31.72	19.95	51.67	74.00	-22.33	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

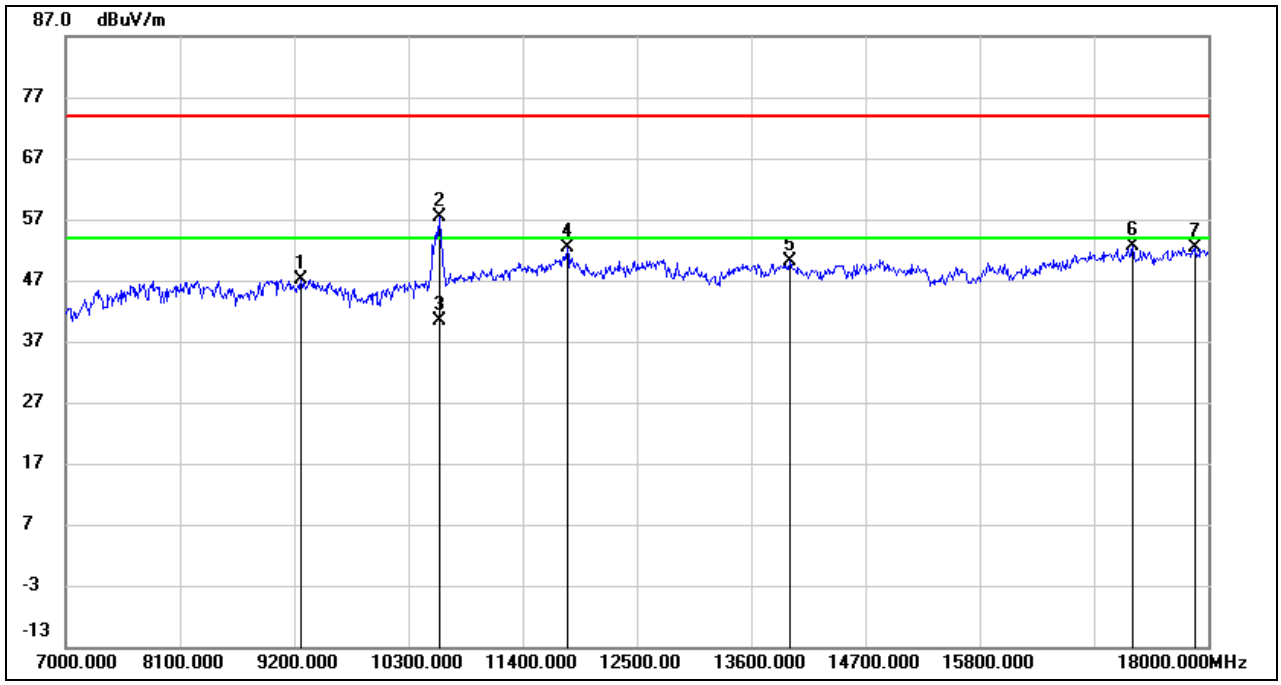


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8155.000	38.11	8.98	47.09	74.00	-26.91	peak
2	9420.000	37.40	10.34	47.74	74.00	-26.26	peak
3	10432.000	45.16	11.61	56.77	74.00	-17.23	peak
4	10432.000	27.86	11.61	39.47	54.00	-14.53	AVG
5	11796.000	37.48	15.59	53.07	74.00	-20.93	peak
6	13853.000	33.74	16.93	50.67	74.00	-23.33	peak
7	17351.000	31.18	20.81	51.99	74.00	-22.01	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-2A BAND – PCB ANTENNA

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9266.000	37.61	9.62	47.23	74.00	-26.77	peak
2	10597.000	45.03	12.35	57.38	74.00	-16.62	peak
3	10597.000	28.03	12.35	40.38	54.00	-13.62	AVG
4	11829.000	36.71	15.57	52.28	74.00	-21.72	peak
5	13974.000	33.25	16.86	50.11	74.00	-23.89	peak
6	17274.000	31.75	20.93	52.68	74.00	-21.32	peak
7	17879.000	29.72	22.70	52.42	74.00	-21.58	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 the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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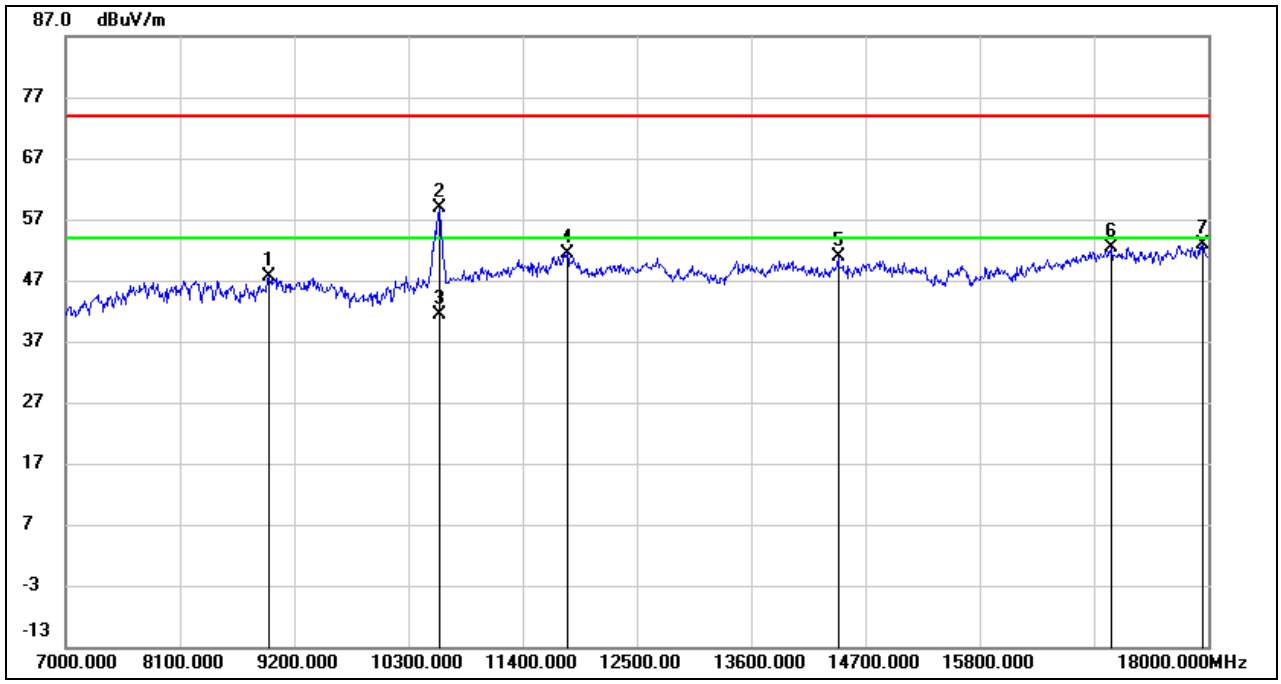
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8958.000	37.54	10.19	47.73	74.00	-26.27	peak
2	10597.000	46.49	12.35	58.84	74.00	-15.16	peak
3	10597.000	28.97	12.35	41.32	54.00	-12.68	AVG
4	11829.000	35.78	15.57	51.35	74.00	-22.65	peak
5	14436.000	33.99	16.79	50.78	74.00	-23.22	peak
6	17065.000	31.89	20.49	52.38	74.00	-21.62	peak
7	17945.000	30.13	22.68	52.81	74.00	-21.19	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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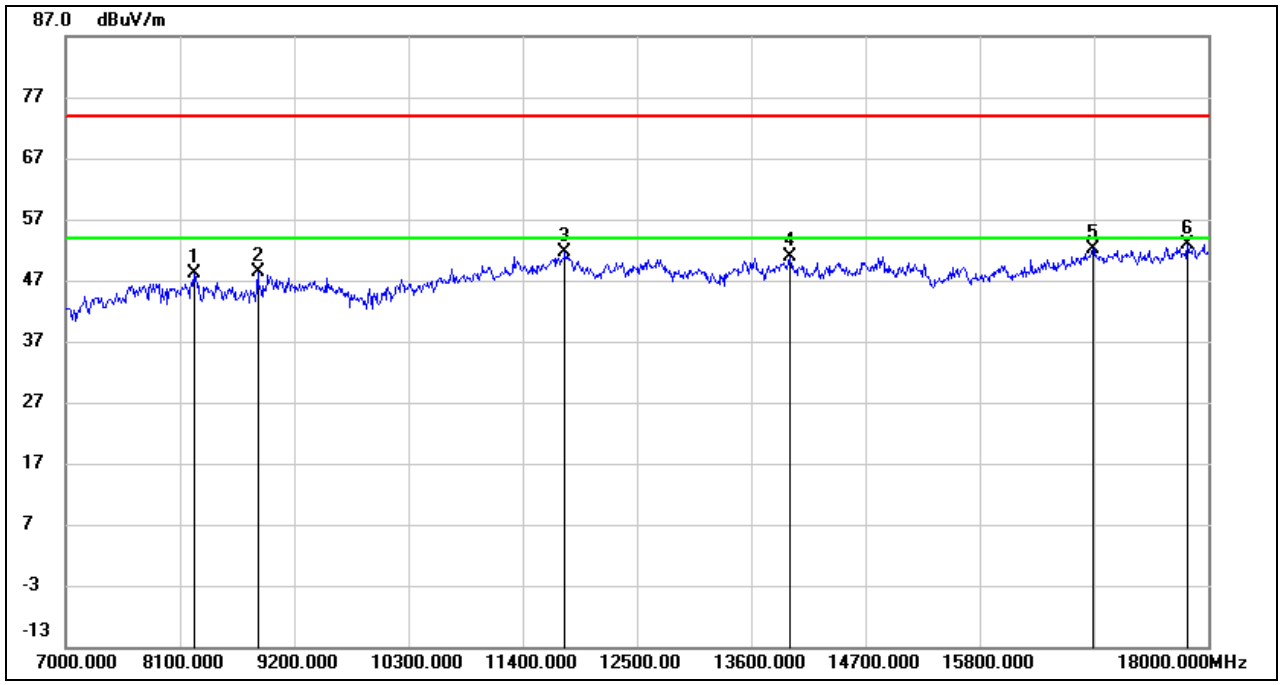
UNII-2C BAND – PCB ANTENNA

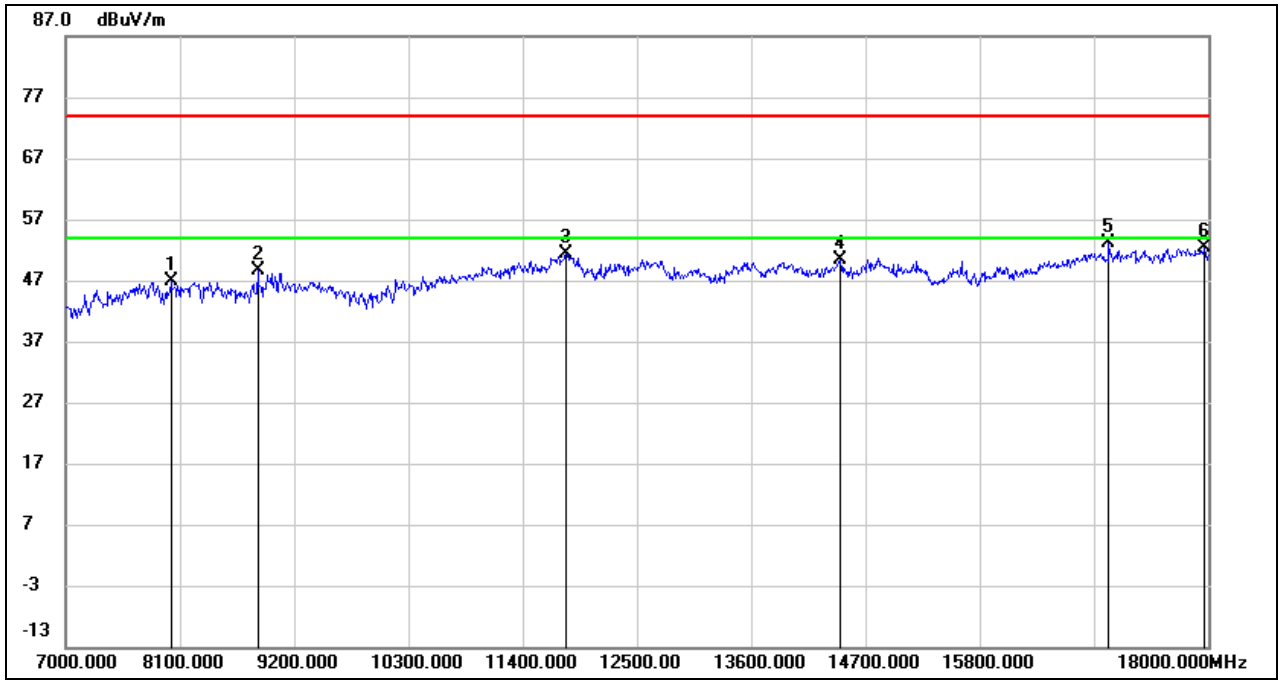
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8232.000	38.86	9.23	48.09	74.00	-25.91	peak
2	8848.000	39.31	9.03	48.34	74.00	-25.66	peak
3	11807.000	36.07	15.61	51.68	74.00	-22.32	peak
4	13974.000	33.94	16.86	50.80	74.00	-23.20	peak
5	16889.000	32.23	19.95	52.18	74.00	-21.82	peak
6	17802.000	30.21	22.72	52.93	74.00	-21.07	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

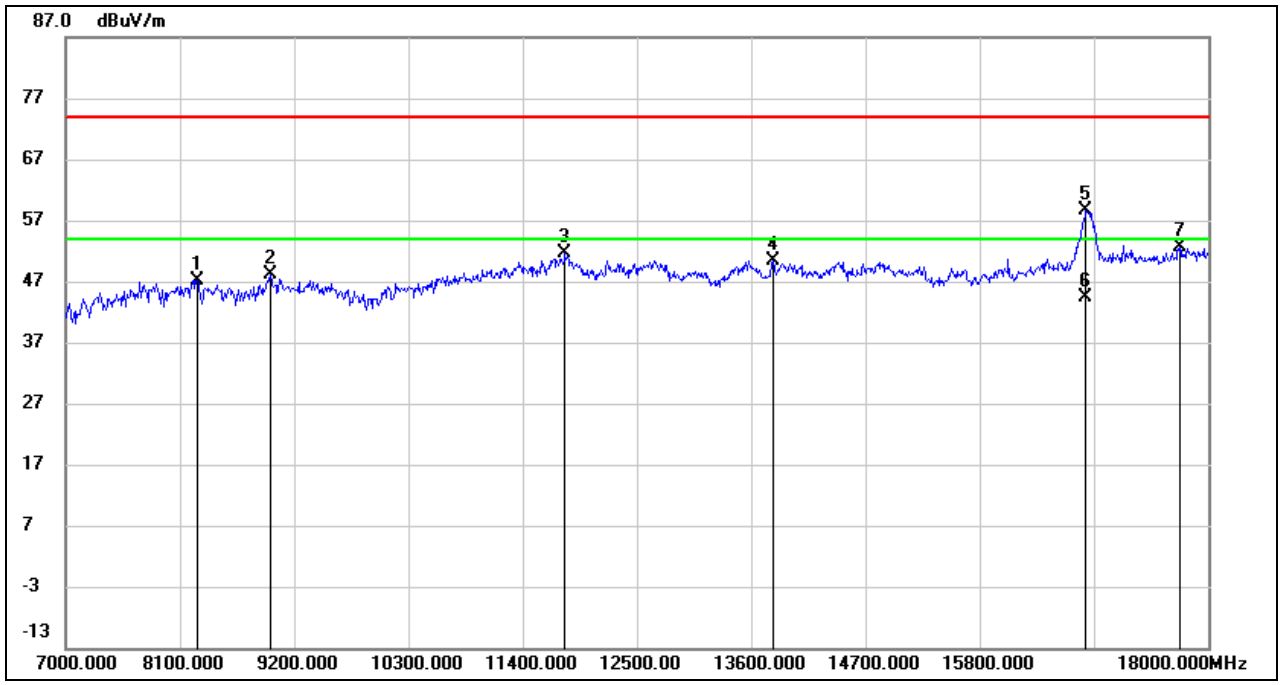
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8012.000	39.05	7.76	46.81	74.00	-27.19	peak
2	8848.000	39.63	9.03	48.66	74.00	-25.34	peak
3	11818.000	35.91	15.58	51.49	74.00	-22.51	peak
4	14458.000	33.67	16.76	50.43	74.00	-23.57	peak
5	17043.000	32.61	20.40	53.01	74.00	-20.99	peak
6	17967.000	29.81	22.67	52.48	74.00	-21.52	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8265.000	38.03	9.11	47.14	74.00	-26.86	peak
2	8969.000	37.91	10.31	48.22	74.00	-25.78	peak
3	11807.000	36.02	15.61	51.63	74.00	-22.37	peak
4	13809.000	33.41	16.95	50.36	74.00	-23.64	peak
5	16823.000	38.74	19.80	58.54	74.00	-15.46	peak
6	16823.000	24.49	19.80	44.29	54.00	-9.71	AVG
7	17725.000	30.55	22.13	52.68	74.00	-21.32	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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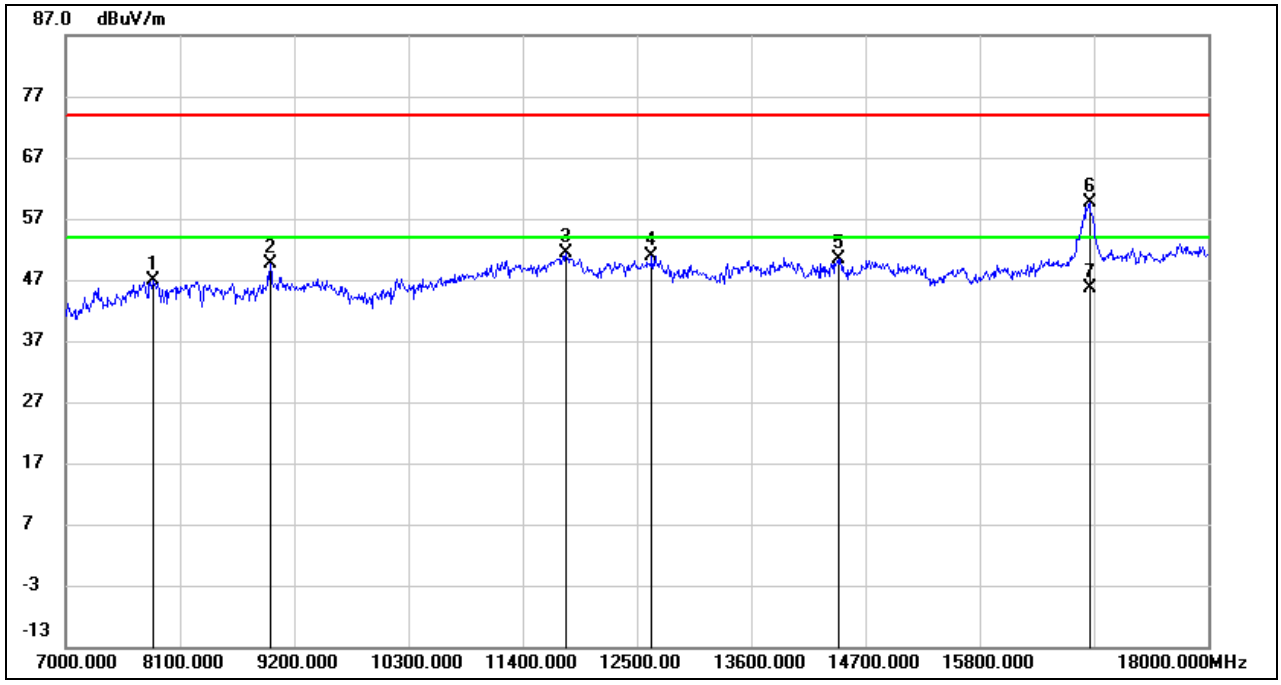
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

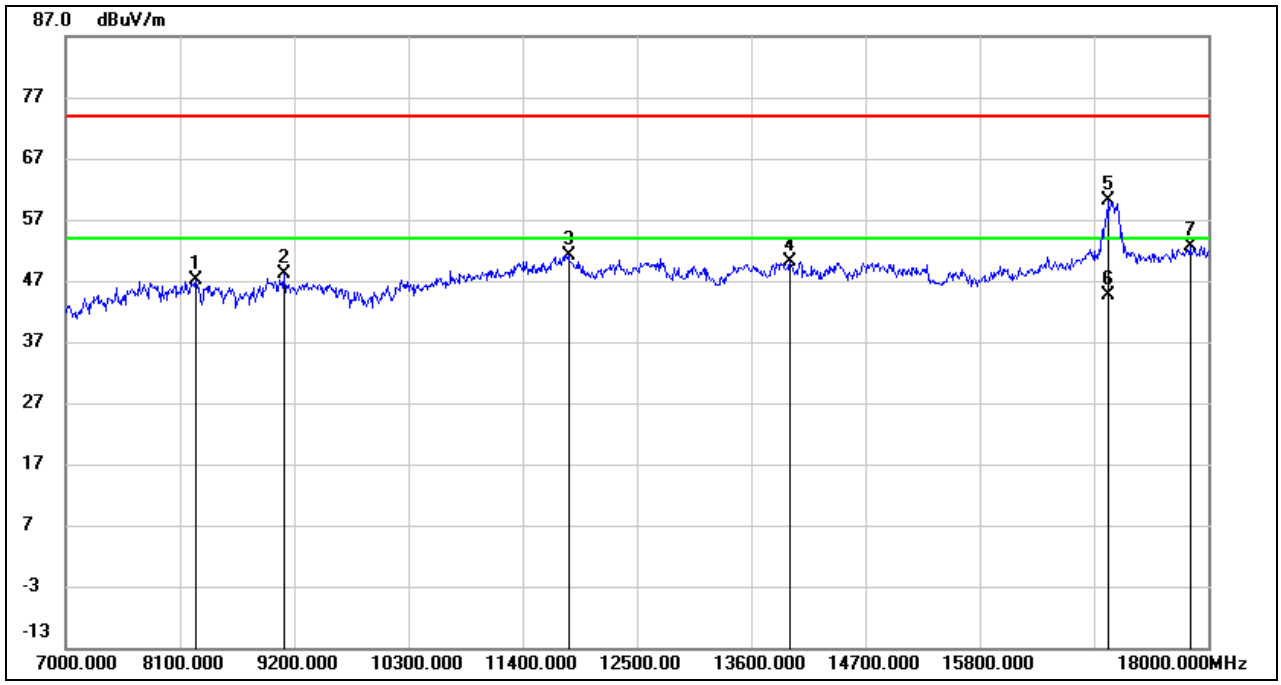


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7836.000	38.64	8.14	46.78	74.00	-27.22	peak
2	8969.000	39.34	10.31	49.65	74.00	-24.35	peak
3	11818.000	35.79	15.58	51.37	74.00	-22.63	peak
4	12643.000	35.63	15.36	50.99	74.00	-23.01	peak
5	14436.000	33.55	16.79	50.34	74.00	-23.66	peak
6	16856.000	39.69	19.87	59.56	74.00	-14.44	peak
7	16856.000	25.82	19.87	45.69	54.00	-8.31	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

STRADDLE CHANNEL 138 – PCB ANTENNA

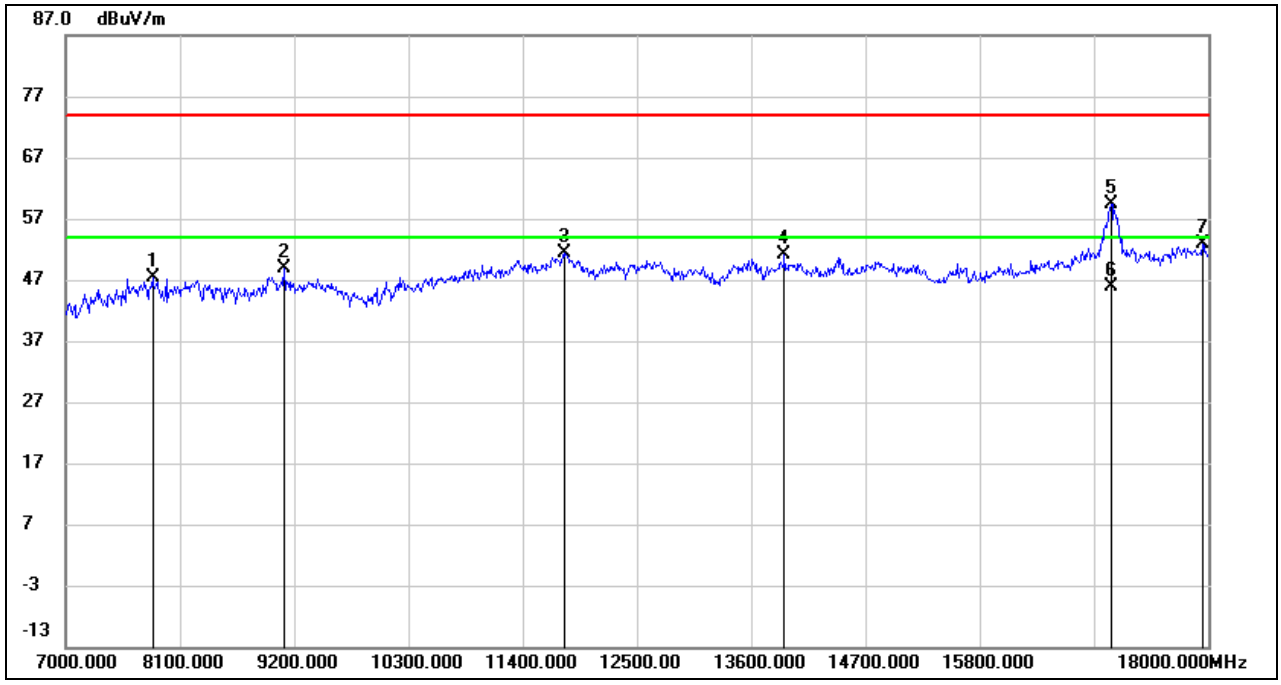
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8254.000	37.96	9.15	47.11	74.00	-26.89	peak
2	9101.000	38.14	9.95	48.09	74.00	-25.91	peak
3	11840.000	35.62	15.56	51.18	74.00	-22.82	peak
4	13974.000	33.23	16.86	50.09	74.00	-23.91	peak
5	17043.000	39.75	20.40	60.15	74.00	-13.85	peak
6	17043.000	24.17	20.40	44.57	54.00	-9.43	AVG
7	17824.000	29.91	22.72	52.63	74.00	-21.37	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

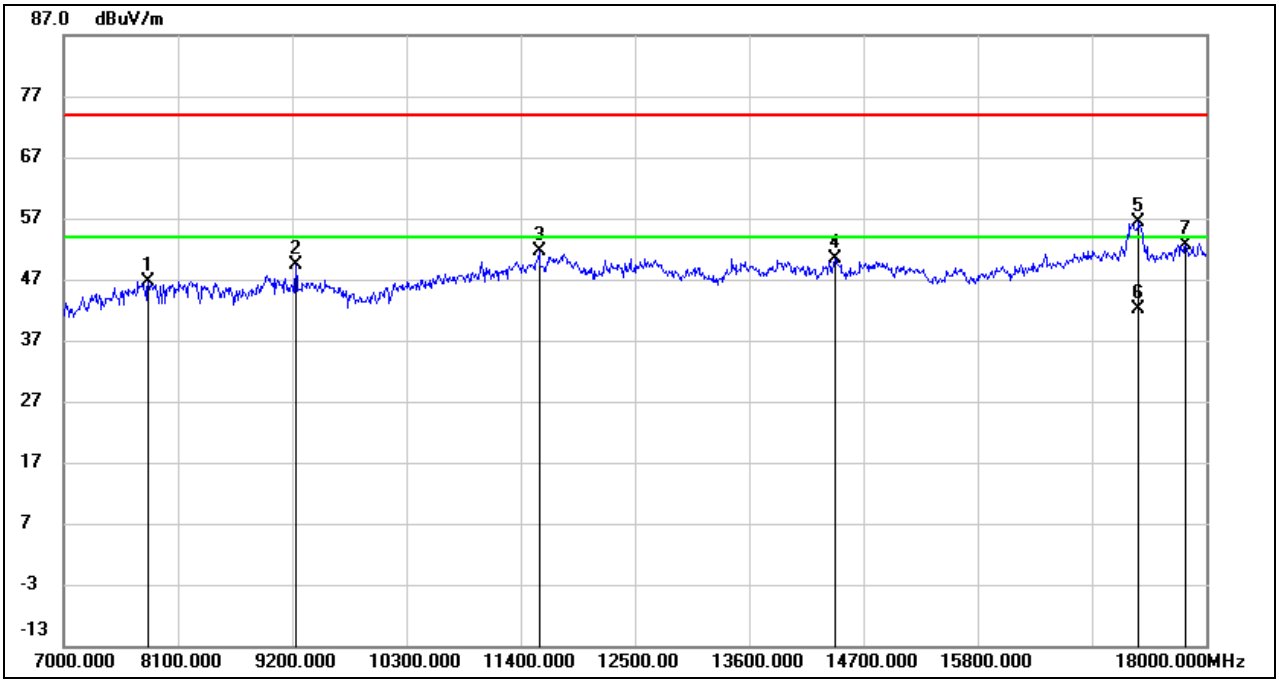


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7836.000	39.35	8.14	47.49	74.00	-26.51	peak
2	9101.000	38.93	9.95	48.88	74.00	-25.12	peak
3	11796.000	35.80	15.59	51.39	74.00	-22.61	peak
4	13919.000	34.12	16.89	51.01	74.00	-22.99	peak
5	17065.000	38.97	20.49	59.46	74.00	-14.54	peak
6	17065.000	25.40	20.49	45.89	54.00	-8.11	AVG
7	17945.000	30.14	22.68	52.82	74.00	-21.18	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-3 BAND – PCB ANTENNA

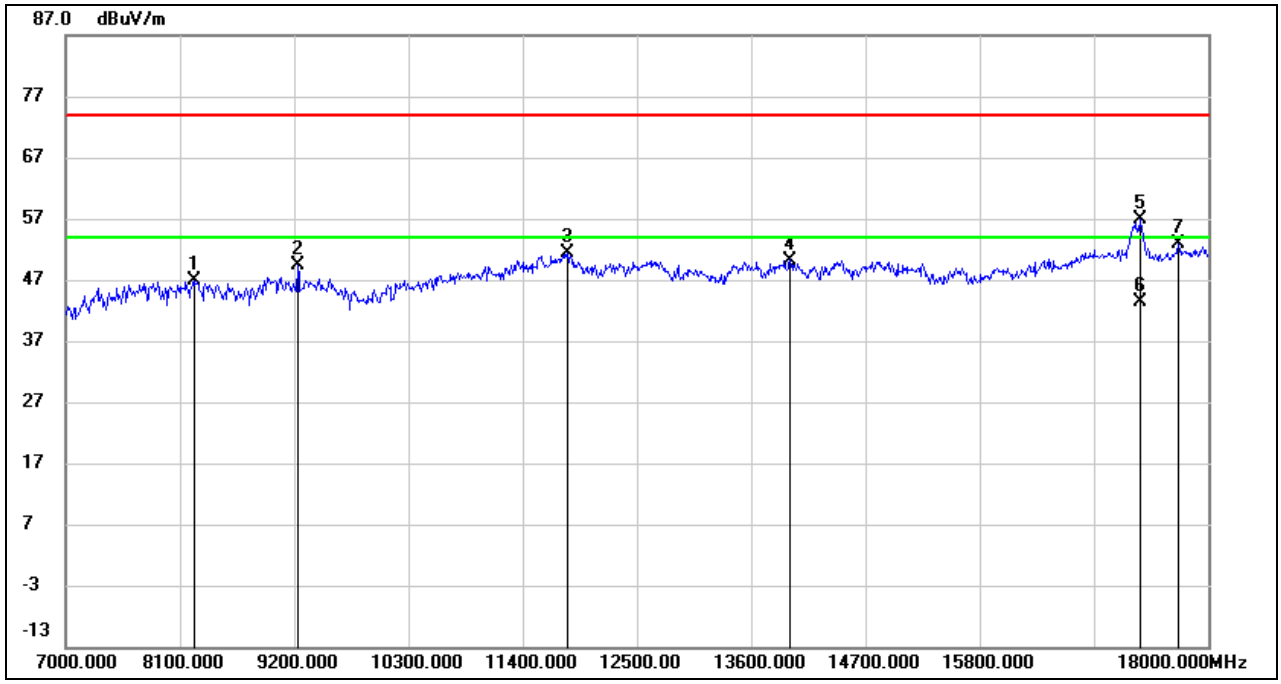
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7814.000	38.38	8.21	46.59	74.00	-27.41	peak
2	9233.000	39.84	9.46	49.30	74.00	-24.70	peak
3	11576.000	37.06	14.48	51.54	74.00	-22.46	peak
4	14425.000	33.62	16.80	50.42	74.00	-23.58	peak
5	17351.000	35.55	20.81	56.36	74.00	-17.64	peak
6	17351.000	21.44	20.81	42.25	54.00	-11.75	AVG
7	17802.000	29.82	22.72	52.54	74.00	-21.46	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 the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

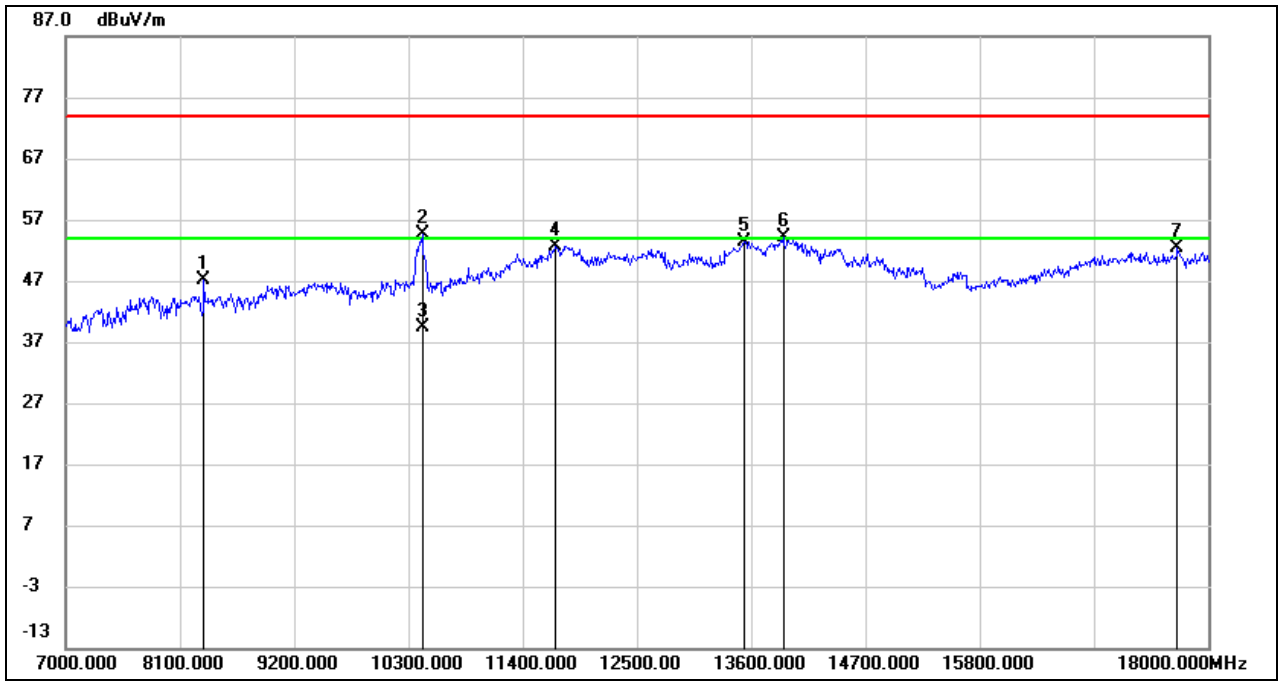


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8232.000	37.55	9.23	46.78	74.00	-27.22	peak
2	9233.000	39.87	9.46	49.33	74.00	-24.67	peak
3	11829.000	35.74	15.57	51.31	74.00	-22.69	peak
4	13974.000	33.39	16.86	50.25	74.00	-23.75	peak
5	17340.000	35.97	20.82	56.79	74.00	-17.21	peak
6	17340.000	22.47	20.82	43.29	54.00	-10.71	AVG
7	17714.000	30.79	22.04	52.83	74.00	-21.17	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-1 BAND – FPC ANTENNA

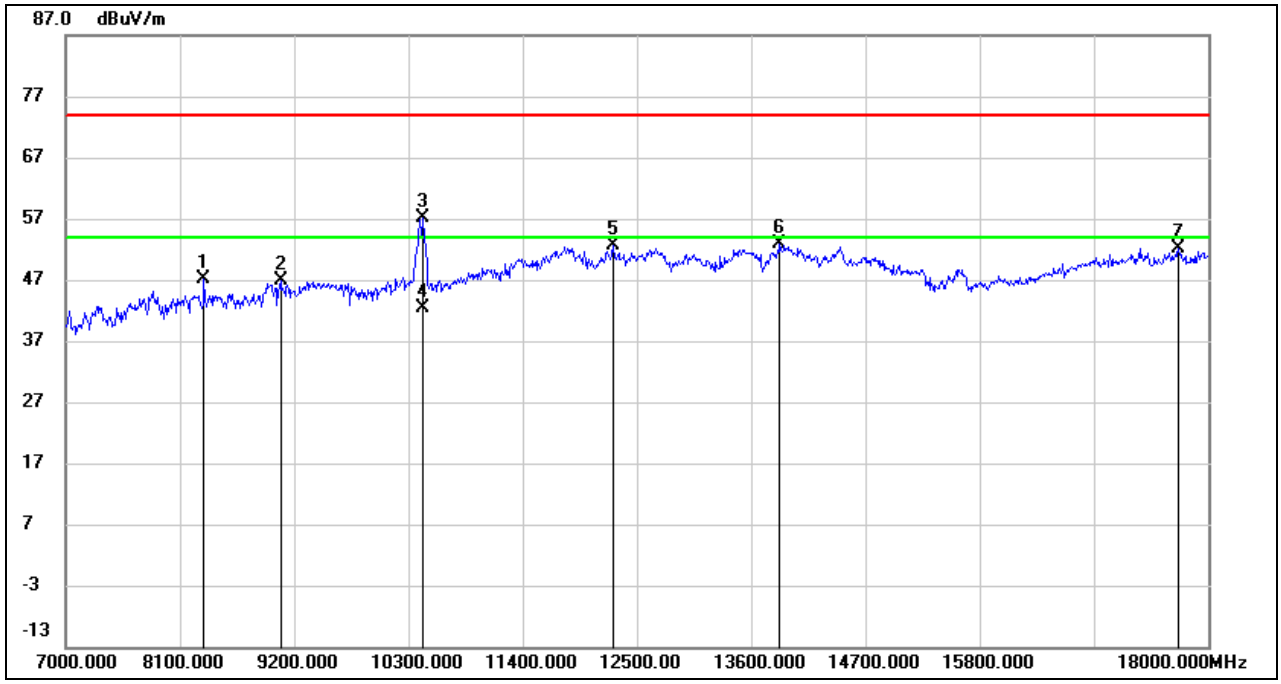
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8336.500	40.23	6.83	47.06	74.00	-26.94	peak
2	10437.500	43.03	11.59	54.62	74.00	-19.38	peak
3	10437.500	27.76	11.59	39.35	54.00	-14.65	AVG
4	11708.000	35.96	16.64	52.60	74.00	-21.40	peak
5	13534.000	33.78	19.63	53.41	74.00	-20.59	peak
6	13913.500	33.54	20.58	54.12	74.00	-19.88	peak
7	17708.500	30.09	22.24	52.33	74.00	-21.67	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

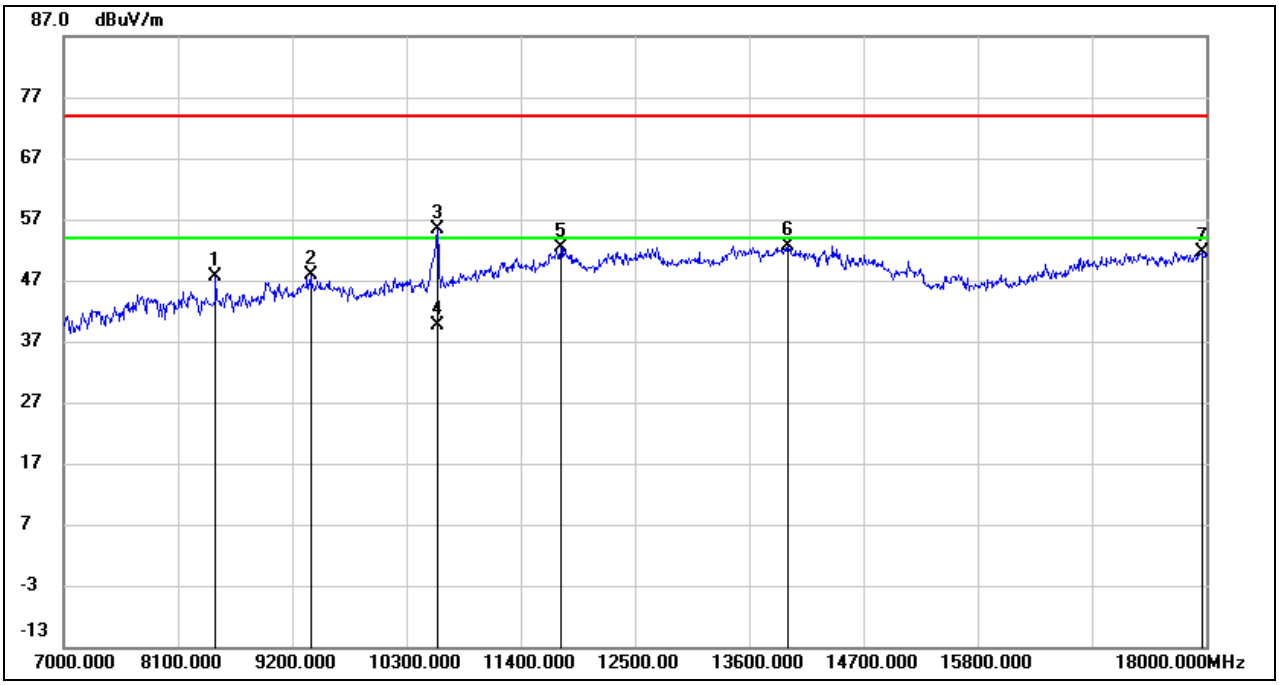


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8336.500	40.32	6.83	47.15	74.00	-26.85	peak
2	9068.000	37.71	9.16	46.87	74.00	-27.13	peak
3	10437.500	45.52	11.59	57.11	74.00	-16.89	peak
4	10437.500	30.73	11.59	42.32	54.00	-11.68	AVG
5	12269.000	35.79	16.86	52.65	74.00	-21.35	peak
6	13880.500	32.20	20.56	52.76	74.00	-21.24	peak
7	17719.500	29.82	22.36	52.18	74.00	-21.82	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-2A BAND – FPC ANTENNA

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8463.000	40.92	6.65	47.57	74.00	-26.43	peak
2	9376.000	38.31	9.53	47.84	74.00	-26.16	peak
3	10597.000	43.15	12.25	55.40	74.00	-18.60	peak
4	10597.000	27.28	12.25	39.53	54.00	-14.47	AVG
5	11785.000	35.31	17.12	52.43	74.00	-21.57	peak
6	13979.500	32.03	20.63	52.66	74.00	-21.34	peak
7	17956.000	28.14	23.57	51.71	74.00	-22.29	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 the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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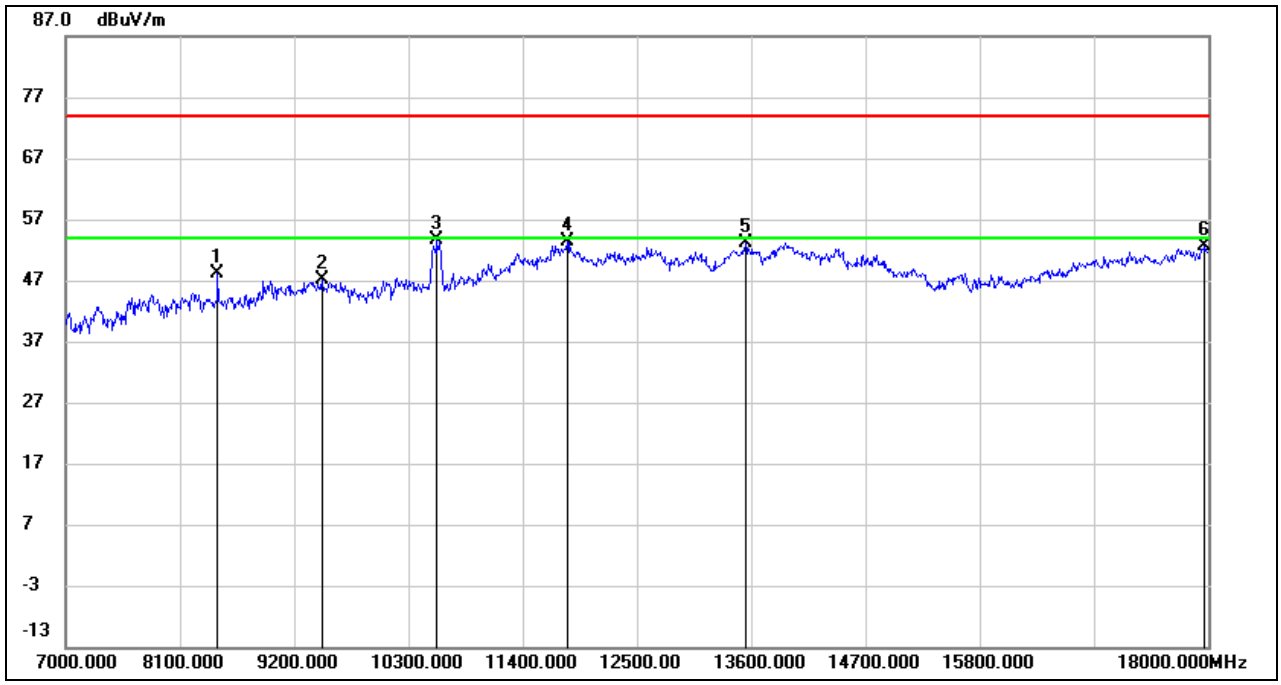
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8463.000	41.45	6.65	48.10	74.00	-25.90	peak
2	9464.000	37.17	9.84	47.01	74.00	-26.99	peak
3	10575.000	41.43	12.15	53.58	74.00	-20.42	peak
4	11829.000	36.30	17.20	53.50	74.00	-20.50	peak
5	13545.000	33.49	19.64	53.13	74.00	-20.87	peak
6	17972.500	29.03	23.61	52.64	74.00	-21.36	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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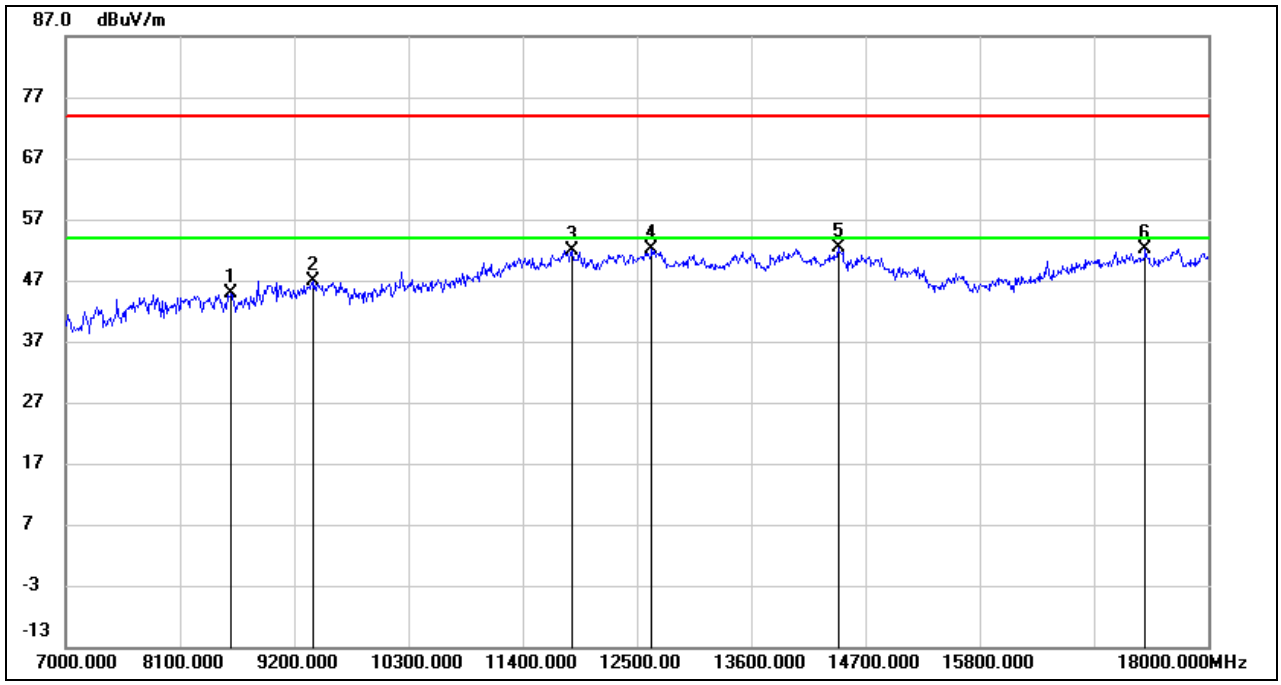
UNII-2C BAND – FPC ANTENNA

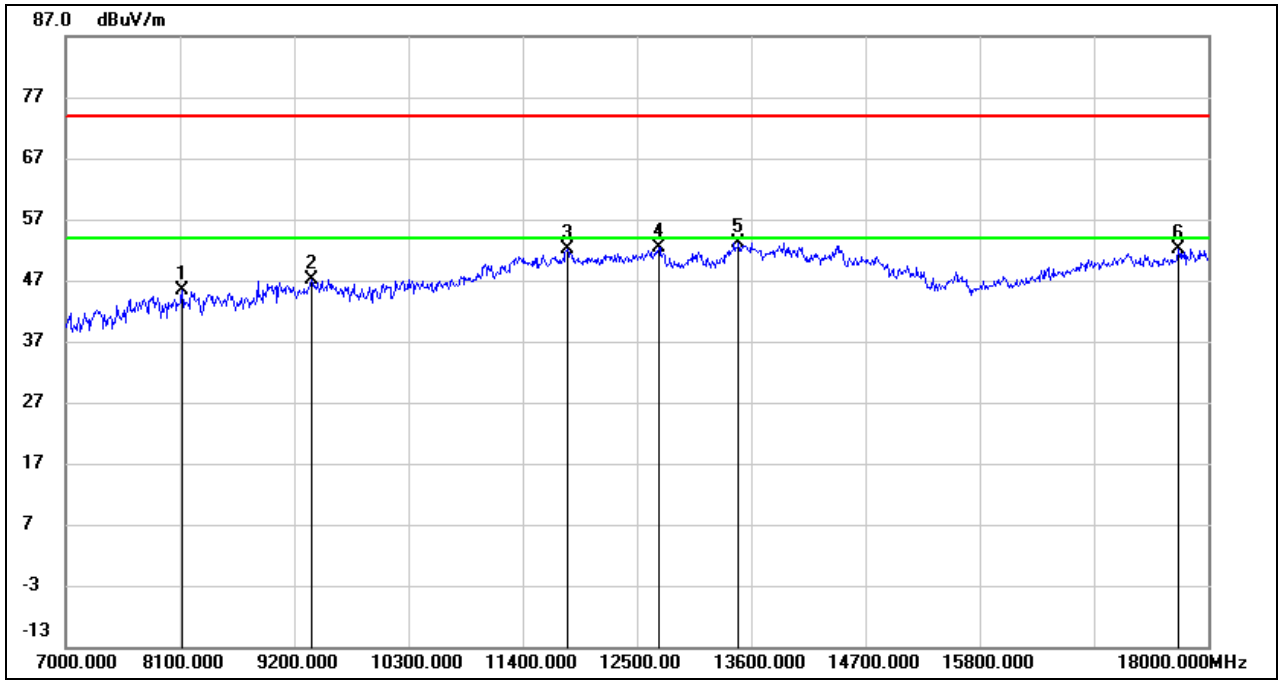
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8600.500	38.02	6.86	44.88	74.00	-29.12	peak
2	9392.500	37.24	9.63	46.87	74.00	-27.13	peak
3	11873.000	34.76	17.17	51.93	74.00	-22.07	peak
4	12643.000	35.15	16.91	52.06	74.00	-21.94	peak
5	14436.000	33.75	18.74	52.49	74.00	-21.51	peak
6	17400.500	31.80	20.21	52.01	74.00	-21.99	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

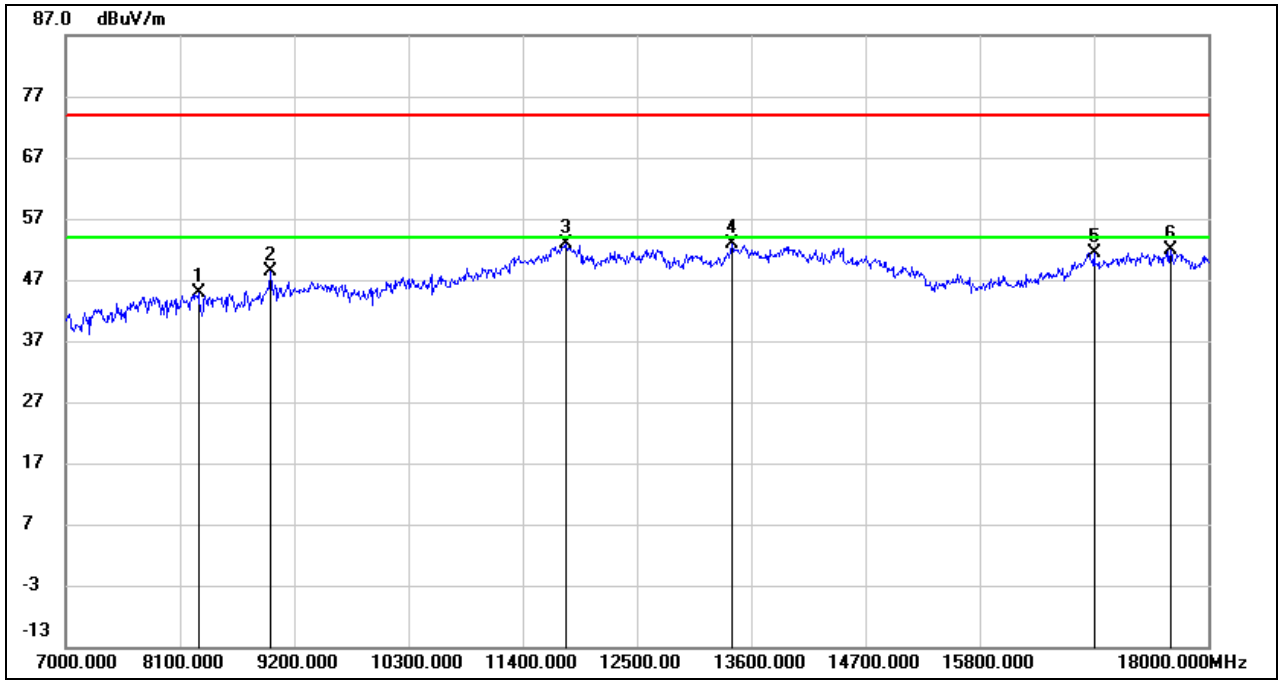
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8122.000	38.86	6.49	45.35	74.00	-28.65	peak
2	9365.000	37.64	9.46	47.10	74.00	-26.90	peak
3	11829.000	35.02	17.20	52.22	74.00	-21.78	peak
4	12714.500	35.40	17.09	52.49	74.00	-21.51	peak
5	13484.500	33.62	19.53	53.15	74.00	-20.85	peak
6	17719.500	29.84	22.36	52.20	74.00	-21.80	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8276.000	37.76	7.00	44.76	74.00	-29.24	peak
2	8974.500	39.17	9.22	48.39	74.00	-25.61	peak
3	11823.500	35.70	17.21	52.91	74.00	-21.09	peak
4	13413.000	33.71	19.25	52.96	74.00	-21.04	peak
5	16900.000	32.83	18.61	51.44	74.00	-22.56	peak
6	17642.500	30.33	21.55	51.88	74.00	-22.12	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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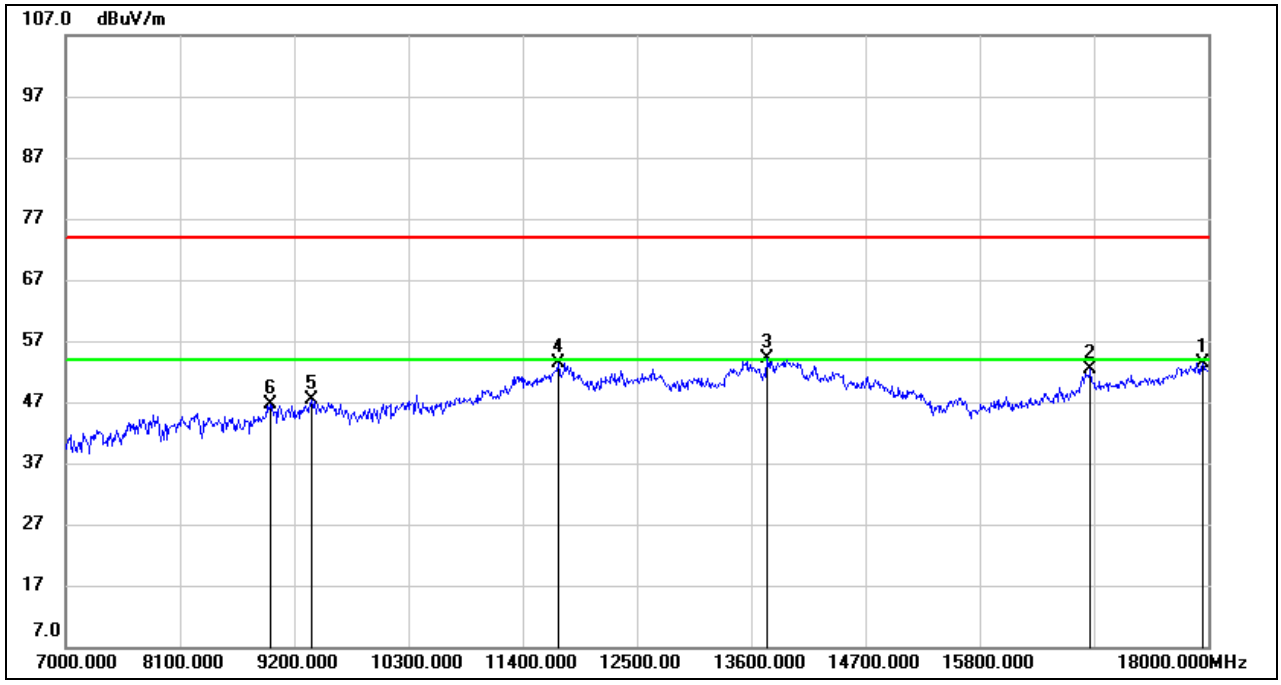
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

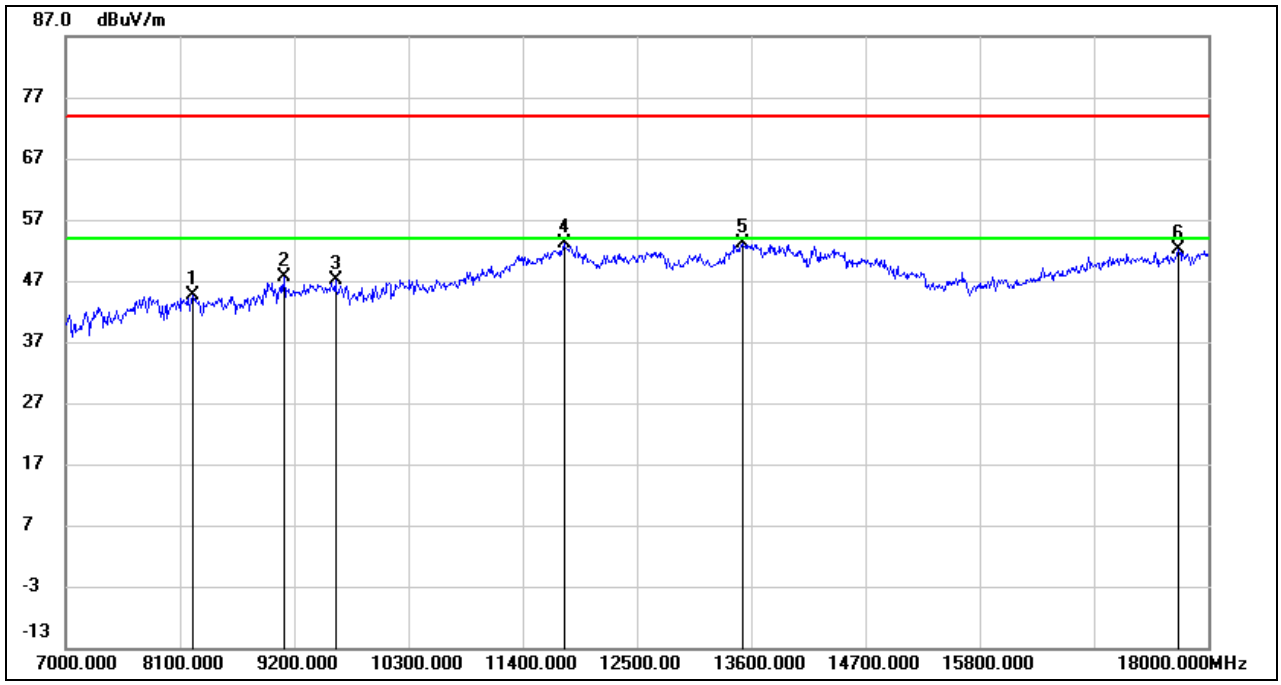


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	17945.000	29.88	23.55	53.43	74.00	-20.57	peak
2	16867.000	33.90	18.49	52.39	74.00	-21.61	peak
3	13759.500	33.67	20.34	54.01	74.00	-19.99	QP
4	11746.500	36.60	16.88	53.48	74.00	-20.52	peak
5	9370.500	37.78	9.49	47.27	74.00	-26.73	peak
6	8974.500	37.39	9.22	46.61	74.00	-27.39	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

STRADDLE CHANNEL 138 – FPC ANTENNA

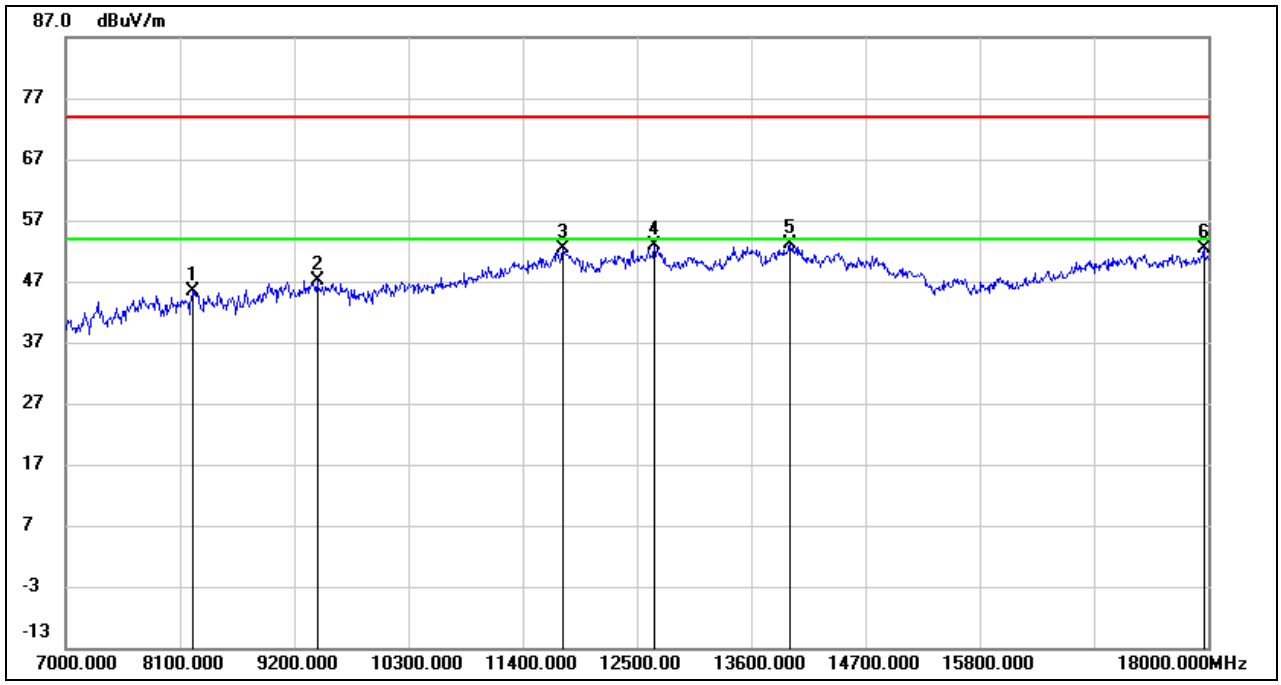
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8221.000	37.43	7.16	44.59	74.00	-29.41	peak
2	9101.000	38.57	8.97	47.54	74.00	-26.46	peak
3	9601.500	37.05	10.13	47.18	74.00	-26.82	peak
4	11796.000	36.02	17.19	53.21	74.00	-20.79	peak
5	13512.000	33.48	19.61	53.09	74.00	-20.91	peak
6	17714.000	29.93	22.29	52.22	74.00	-21.78	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

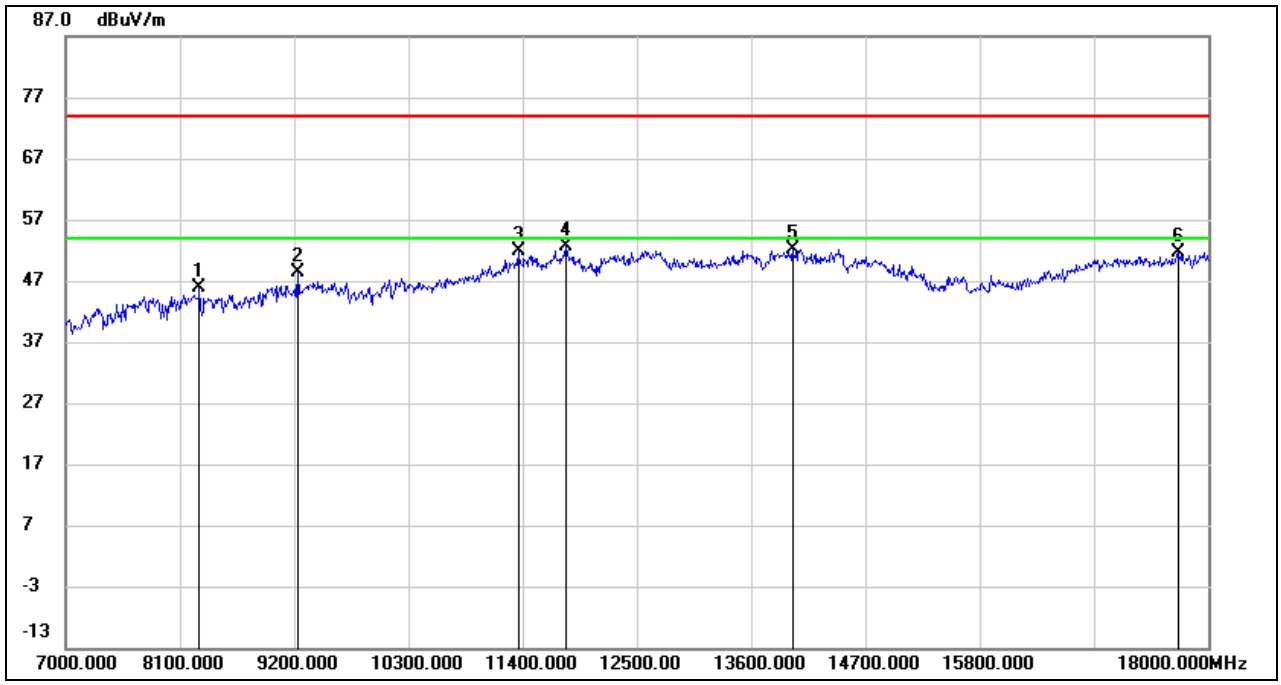


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8226.500	38.13	7.15	45.28	74.00	-28.72	peak
2	9425.500	37.30	9.75	47.05	74.00	-26.95	peak
3	11785.000	35.17	17.12	52.29	74.00	-21.71	peak
4	12670.500	35.83	16.98	52.81	74.00	-21.19	peak
5	13974.000	32.42	20.63	53.05	74.00	-20.95	peak
6	17956.000	28.93	23.57	52.50	74.00	-21.50	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-3 BAND – FPC ANTENNA

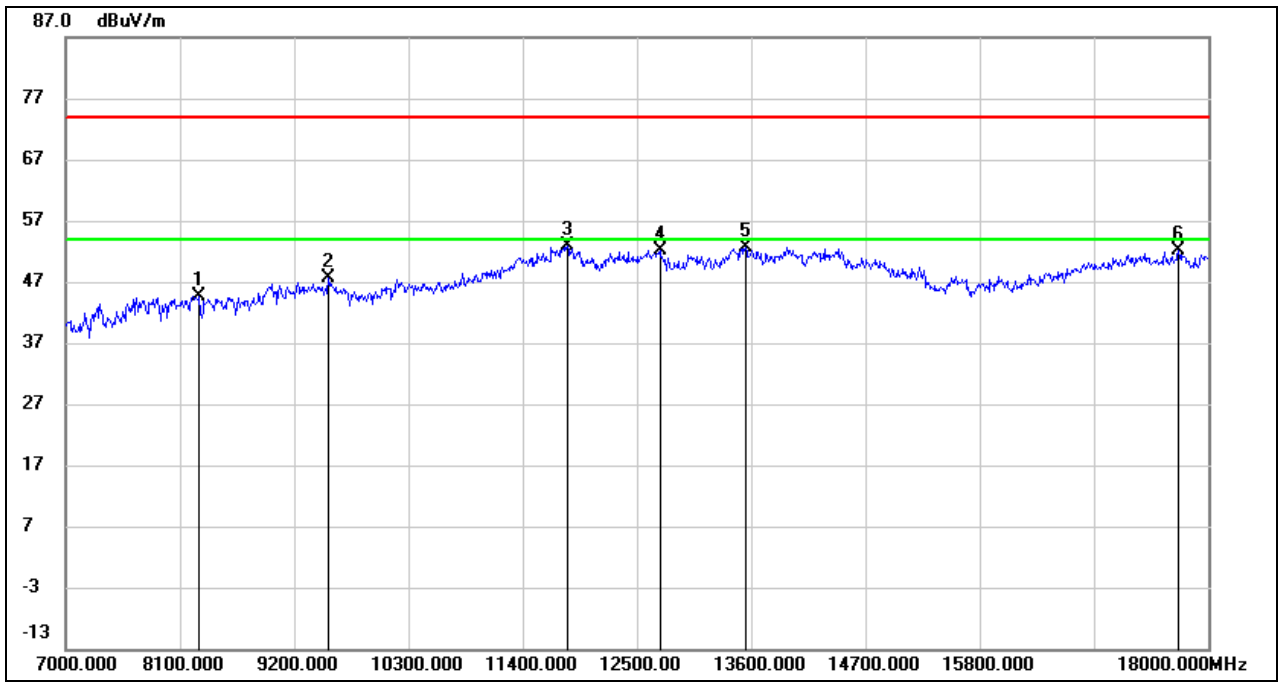
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8287.000	38.90	6.98	45.88	74.00	-28.12	peak
2	9238.500	39.67	8.66	48.33	74.00	-25.67	peak
3	11361.500	36.92	15.05	51.97	74.00	-22.03	peak
4	11823.500	35.54	17.21	52.75	74.00	-21.25	peak
5	14001.500	31.62	20.63	52.25	74.00	-21.75	peak
6	17714.000	29.35	22.29	51.64	74.00	-22.36	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 the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

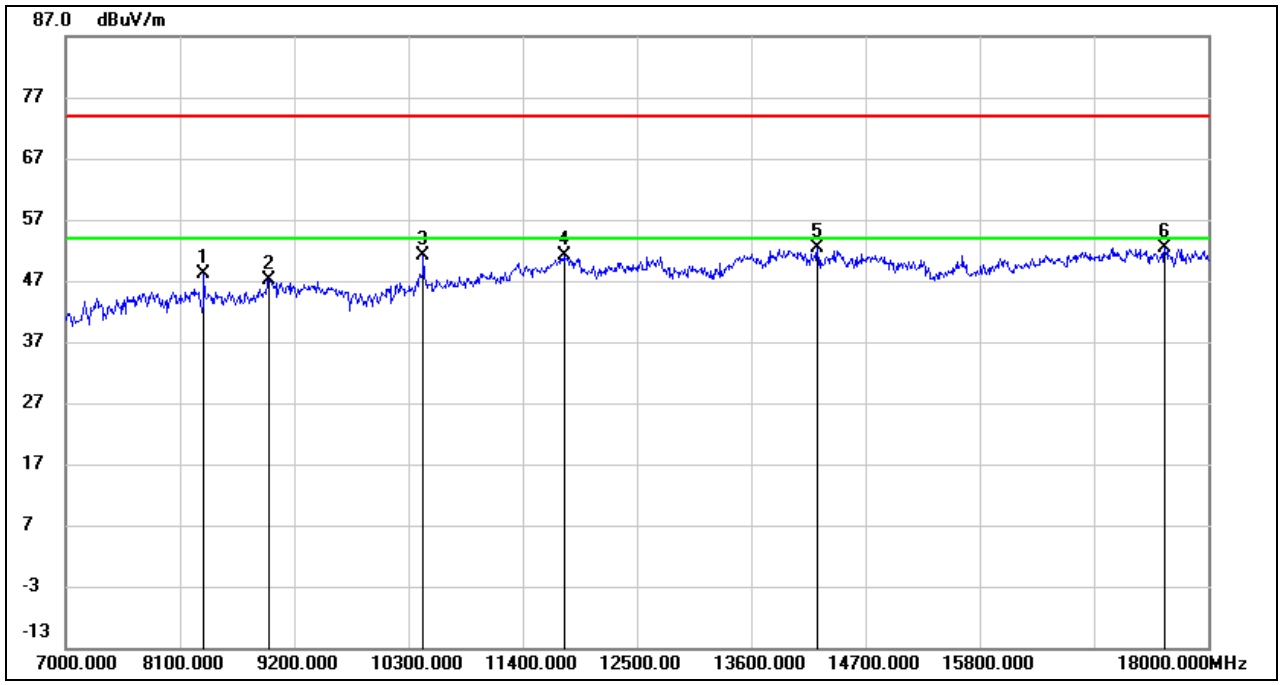


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8287.000	37.66	6.98	44.64	74.00	-29.36	peak
2	9530.000	37.70	9.99	47.69	74.00	-26.31	peak
3	11829.000	35.70	17.20	52.90	74.00	-21.10	peak
4	12720.000	35.10	17.09	52.19	74.00	-21.81	peak
5	13550.500	33.08	19.66	52.74	74.00	-21.26	peak
6	17719.500	29.76	22.36	52.12	74.00	-21.88	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-1 BAND – PIFA ANTENNA

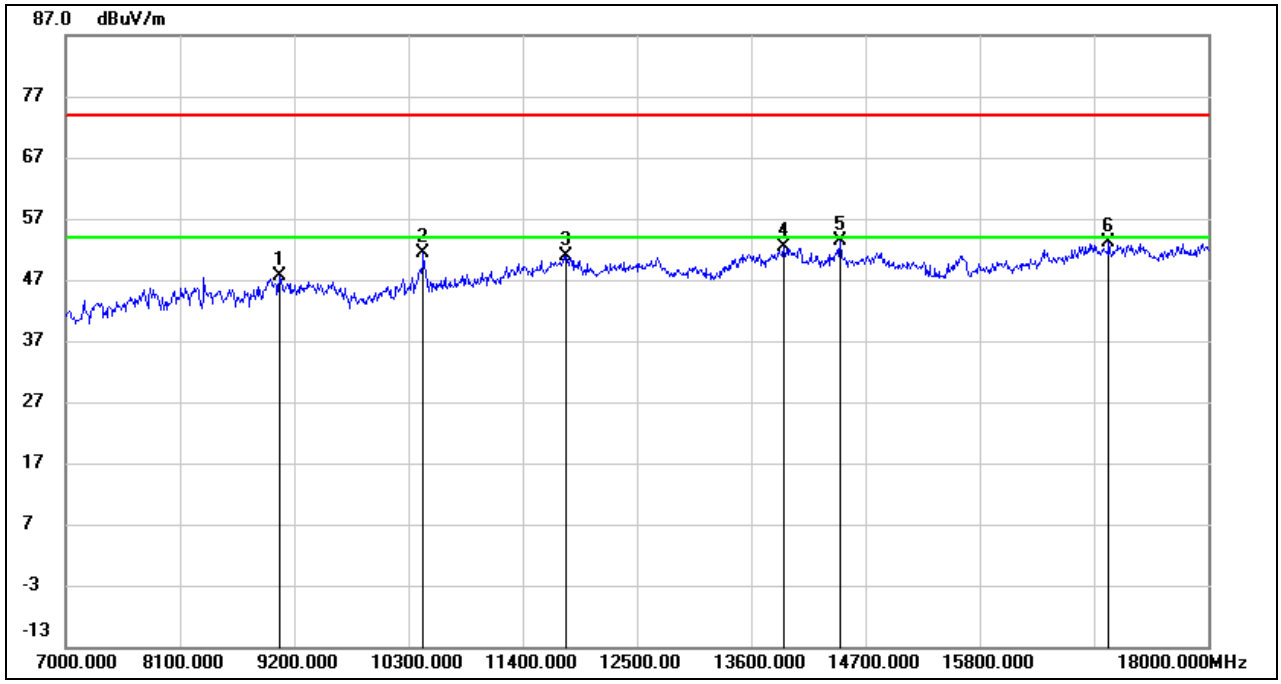
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8336.500	40.54	7.49	48.03	74.00	-25.97	peak
2	8963.500	37.64	9.60	47.24	74.00	-26.76	peak
3	10448.500	39.88	11.13	51.01	74.00	-22.99	peak
4	11812.500	35.71	15.47	51.18	74.00	-22.82	peak
5	14238.000	33.82	18.50	52.32	74.00	-21.68	peak
6	17582.000	30.86	21.47	52.33	74.00	-21.67	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

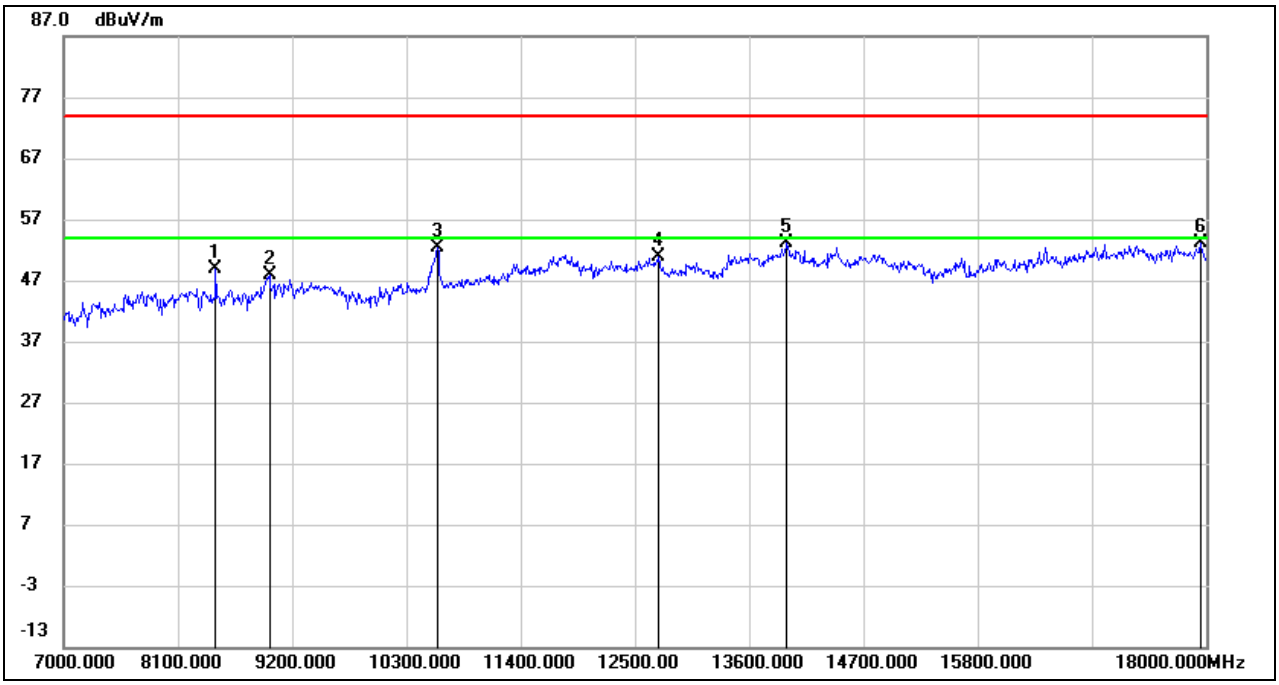


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9062.500	37.89	9.63	47.52	74.00	-26.48	peak
2	10448.500	40.24	11.13	51.37	74.00	-22.63	peak
3	11818.000	35.43	15.47	50.90	74.00	-23.10	peak
4	13908.000	33.55	18.82	52.37	74.00	-21.63	peak
5	14458.000	35.12	18.20	53.32	74.00	-20.68	peak
6	17048.500	32.28	20.86	53.14	74.00	-20.86	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-2A BAND – PIFA ANTENNA

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8463.000	41.42	7.35	48.77	74.00	-25.23	peak
2	8980.000	38.18	9.79	47.97	74.00	-26.03	peak
3	10597.000	40.82	11.67	52.49	74.00	-21.51	peak
4	12731.000	35.04	15.73	50.77	74.00	-23.23	peak
5	13968.500	34.17	18.89	53.06	74.00	-20.94	peak
6	17950.500	30.08	23.00	53.08	74.00	-20.92	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 the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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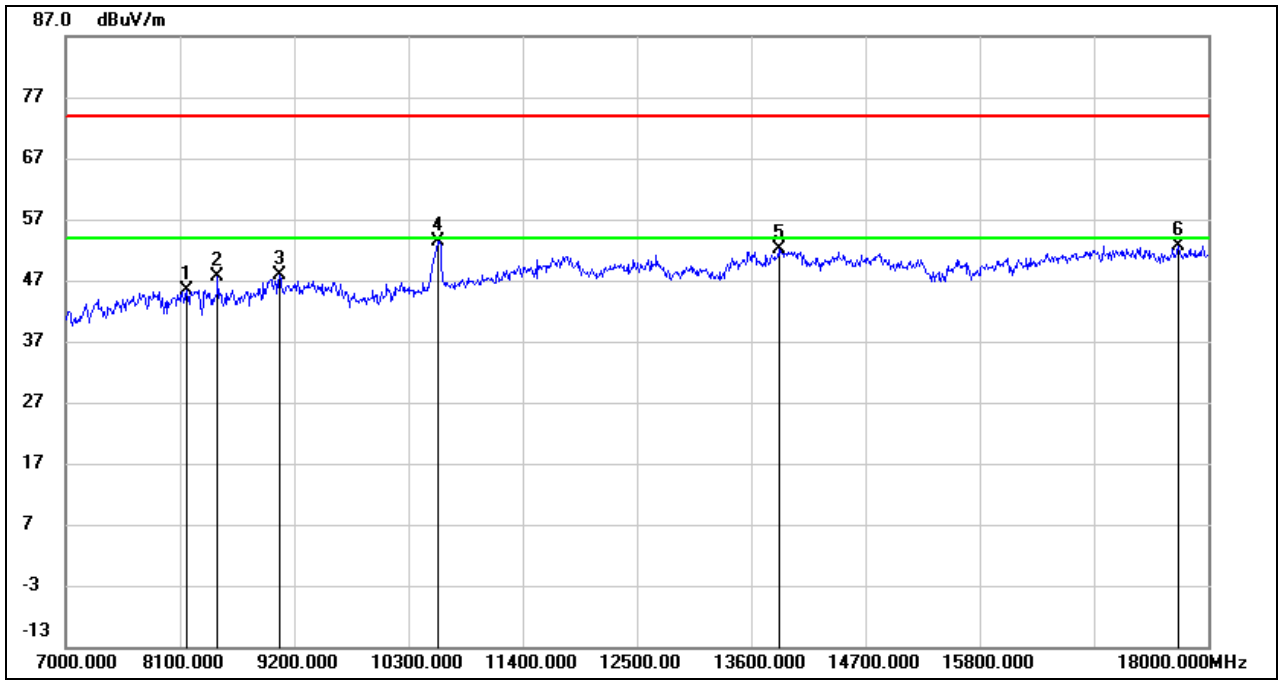
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8166.000	37.76	7.54	45.30	74.00	-28.70	peak
2	8463.000	40.37	7.35	47.72	74.00	-26.28	peak
3	9062.500	38.23	9.63	47.86	74.00	-26.14	peak
4	10591.500	41.80	11.65	53.45	74.00	-20.55	peak
5	13869.500	33.30	18.77	52.07	74.00	-21.93	peak
6	17714.000	30.26	22.39	52.65	74.00	-21.35	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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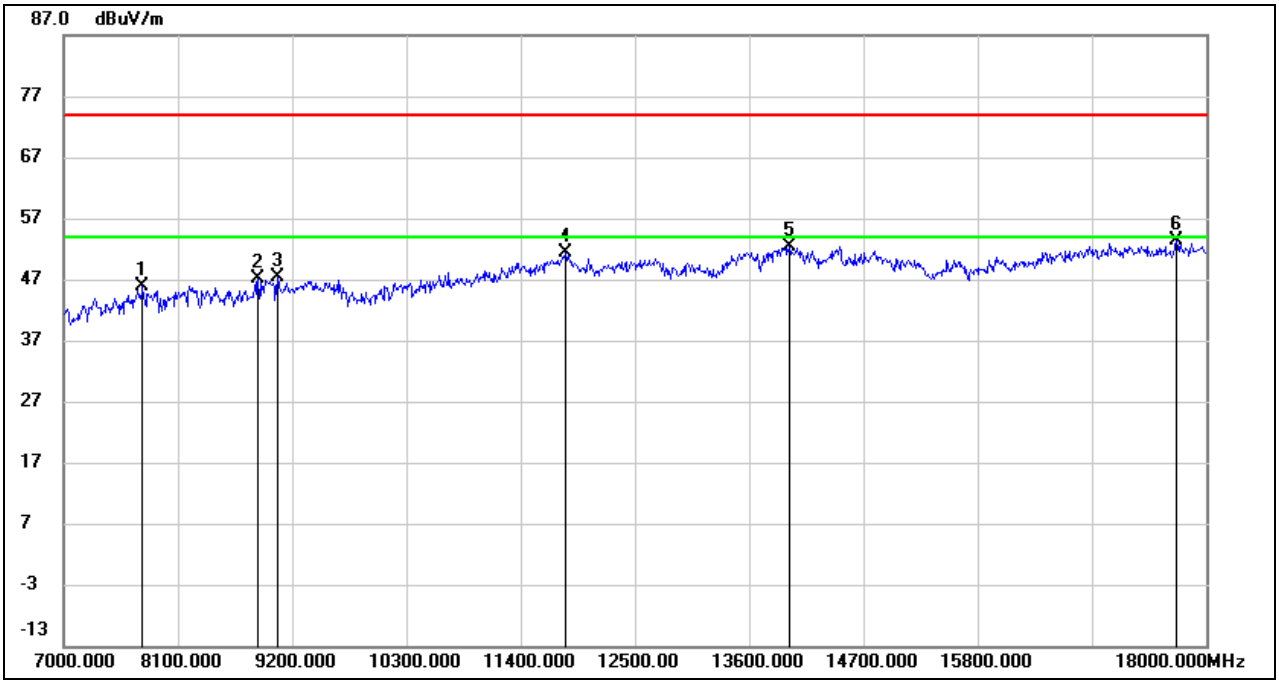
UNII-2C BAND – PIFA ANTENNA

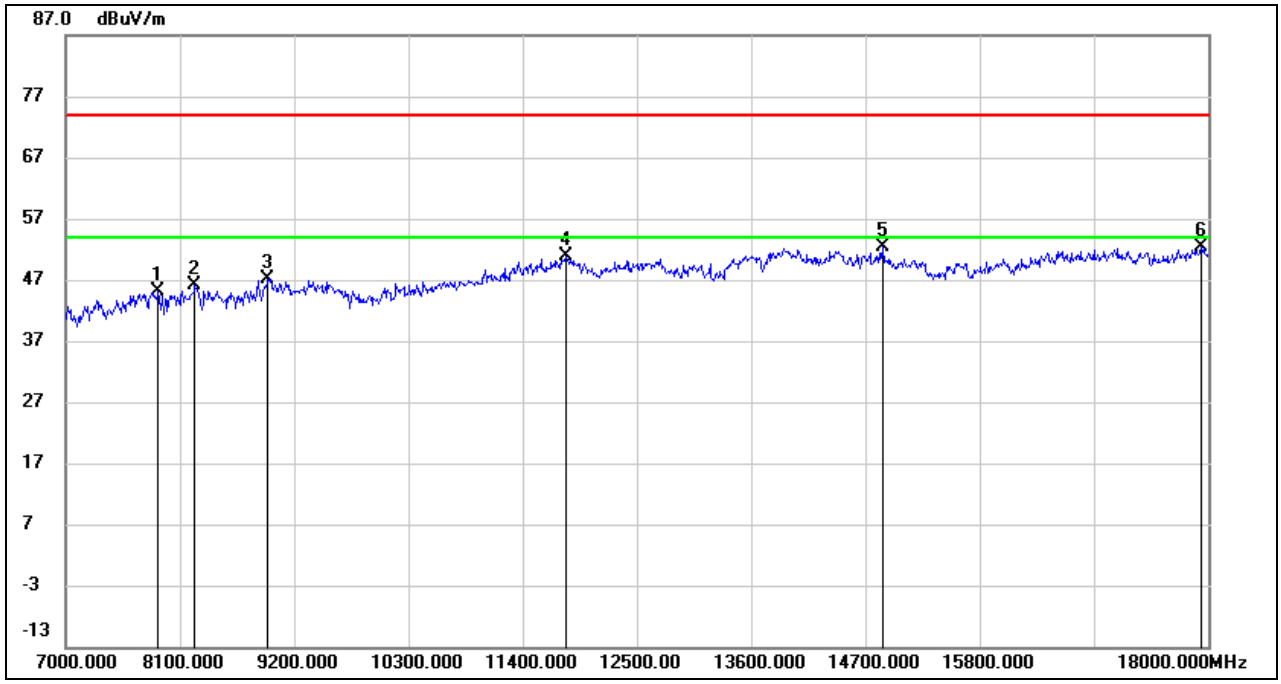
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7759.000	39.32	6.59	45.91	74.00	-28.09	peak
2	8870.000	38.50	8.52	47.02	74.00	-26.98	peak
3	9062.500	37.75	9.63	47.38	74.00	-26.62	peak
4	11829.000	35.95	15.47	51.42	74.00	-22.58	peak
5	13985.000	33.38	18.92	52.30	74.00	-21.70	peak
6	17719.500	30.83	22.44	53.27	74.00	-20.73	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

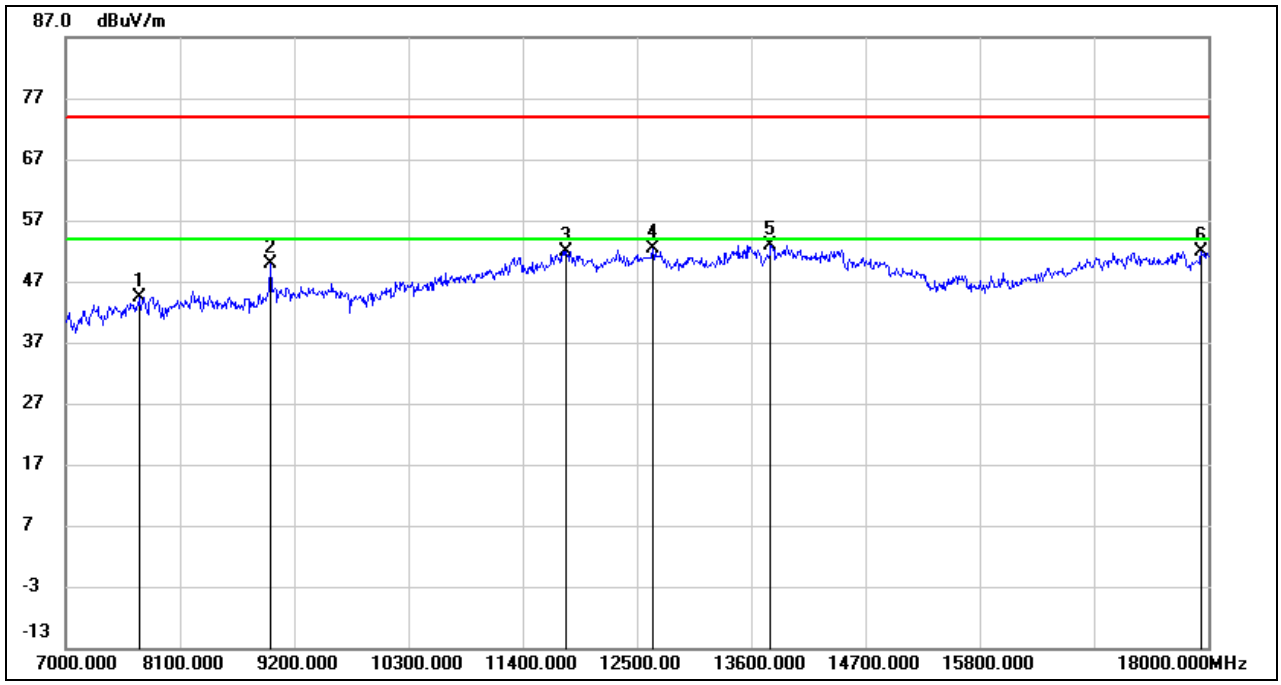
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7896.500	38.79	6.35	45.14	74.00	-28.86	peak
2	8243.000	38.47	7.75	46.22	74.00	-27.78	peak
3	8947.000	37.71	9.41	47.12	74.00	-26.88	peak
4	11818.000	35.52	15.47	50.99	74.00	-23.01	peak
5	14870.500	34.61	17.69	52.30	74.00	-21.70	peak
6	17934.000	29.29	23.01	52.30	74.00	-21.70	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

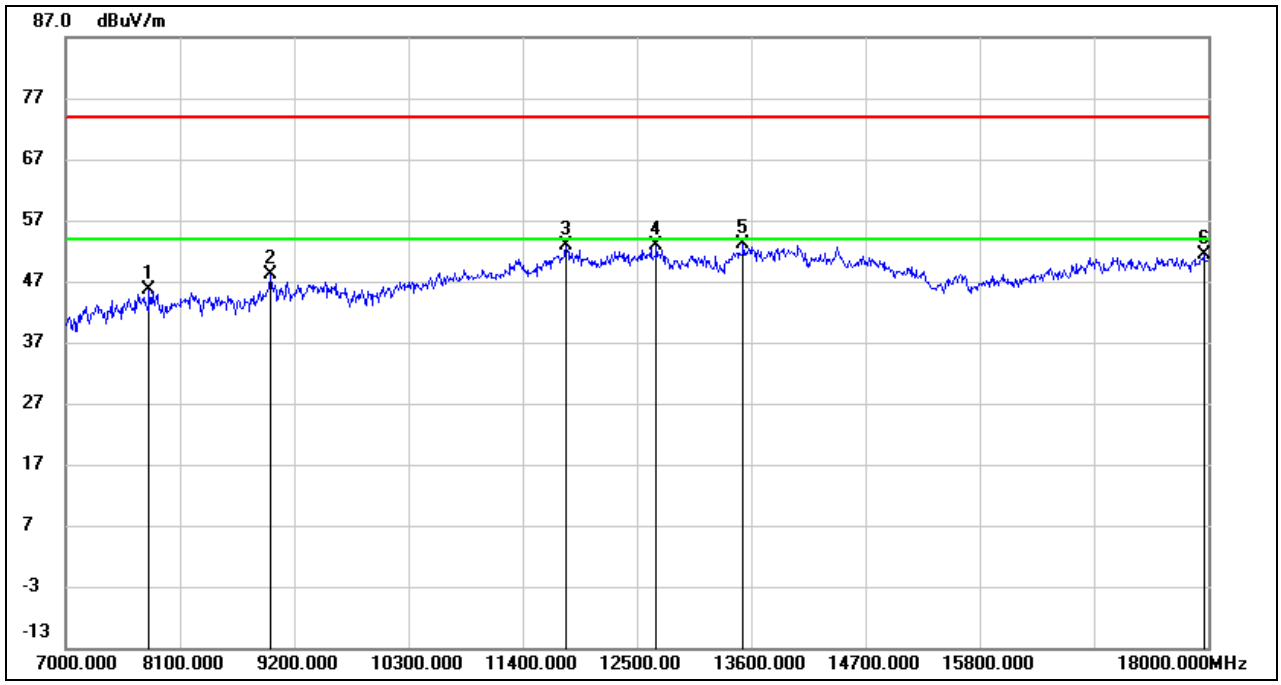


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7720.500	38.67	5.83	44.50	74.00	-29.50	peak
2	8974.500	40.54	9.22	49.76	74.00	-24.24	peak
3	11823.500	34.78	17.21	51.99	74.00	-22.01	peak
4	12659.500	35.40	16.95	52.35	74.00	-21.65	peak
5	13792.500	32.44	20.46	52.90	74.00	-21.10	peak
6	17934.000	28.34	23.52	51.86	74.00	-22.14	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

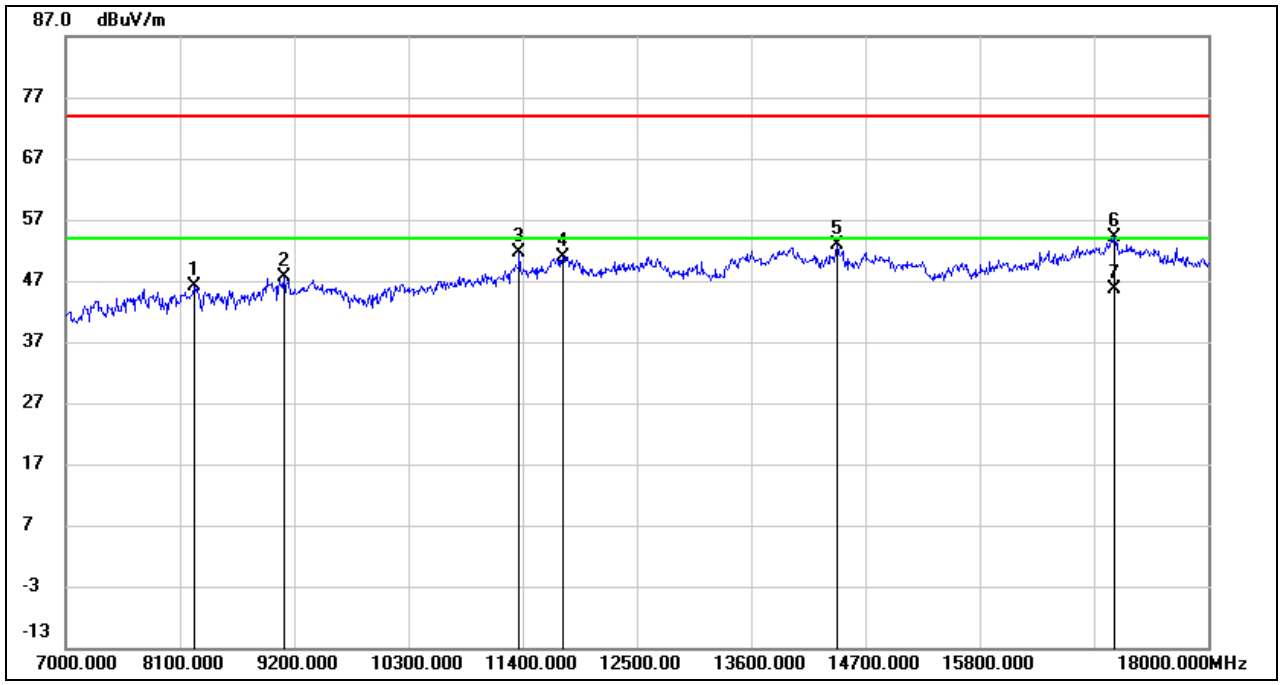


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7808.500	39.53	6.05	45.58	74.00	-28.42	peak
2	8974.500	38.83	9.22	48.05	74.00	-25.95	peak
3	11818.000	35.56	17.20	52.76	74.00	-21.24	peak
4	12692.500	35.91	17.03	52.94	74.00	-21.06	peak
5	13528.500	33.50	19.62	53.12	74.00	-20.88	peak
6	17961.500	27.73	23.58	51.31	74.00	-22.69	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

STRADDLE CHANNEL 138 – PIFA ANTENNA

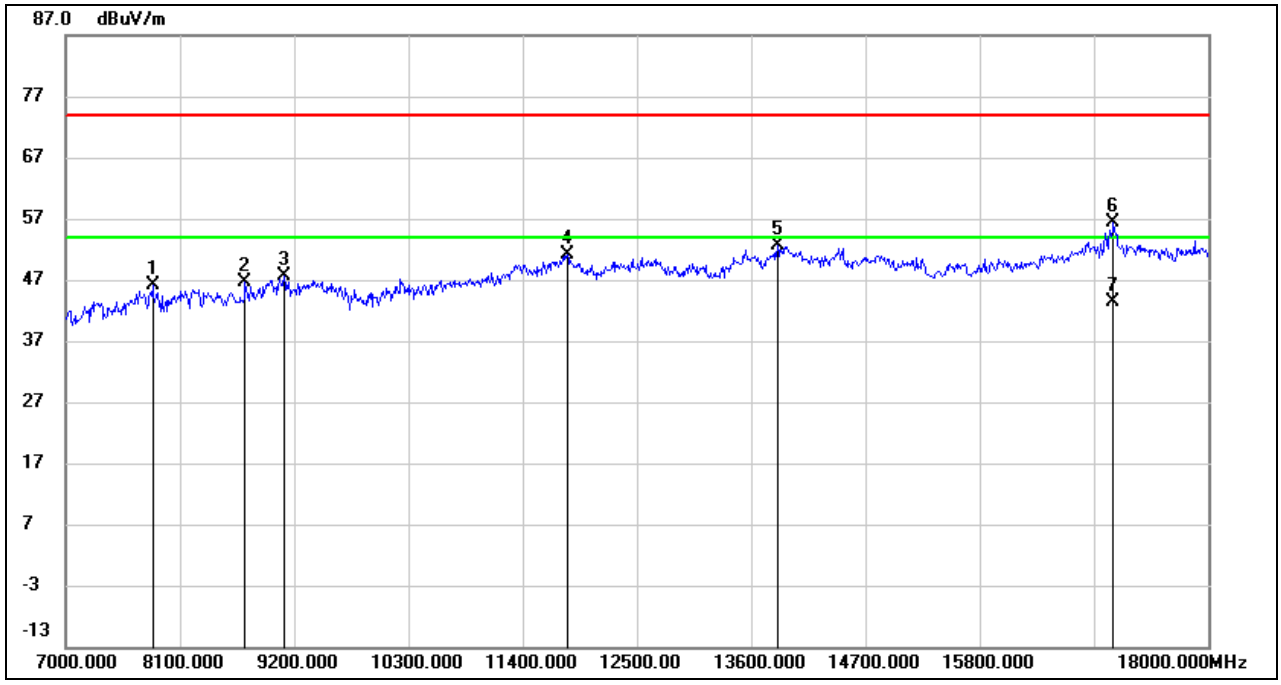
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8232.000	38.31	7.78	46.09	74.00	-27.91	peak
2	9101.000	38.22	9.39	47.61	74.00	-26.39	peak
3	11367.000	38.01	13.52	51.53	74.00	-22.47	peak
4	11790.500	35.55	15.41	50.96	74.00	-23.04	peak
5	14425.000	34.55	18.28	52.83	74.00	-21.17	peak
6	17103.500	33.10	21.07	54.17	74.00	-19.83	peak
7	17103.500	24.58	21.07	45.65	54.00	-8.35	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

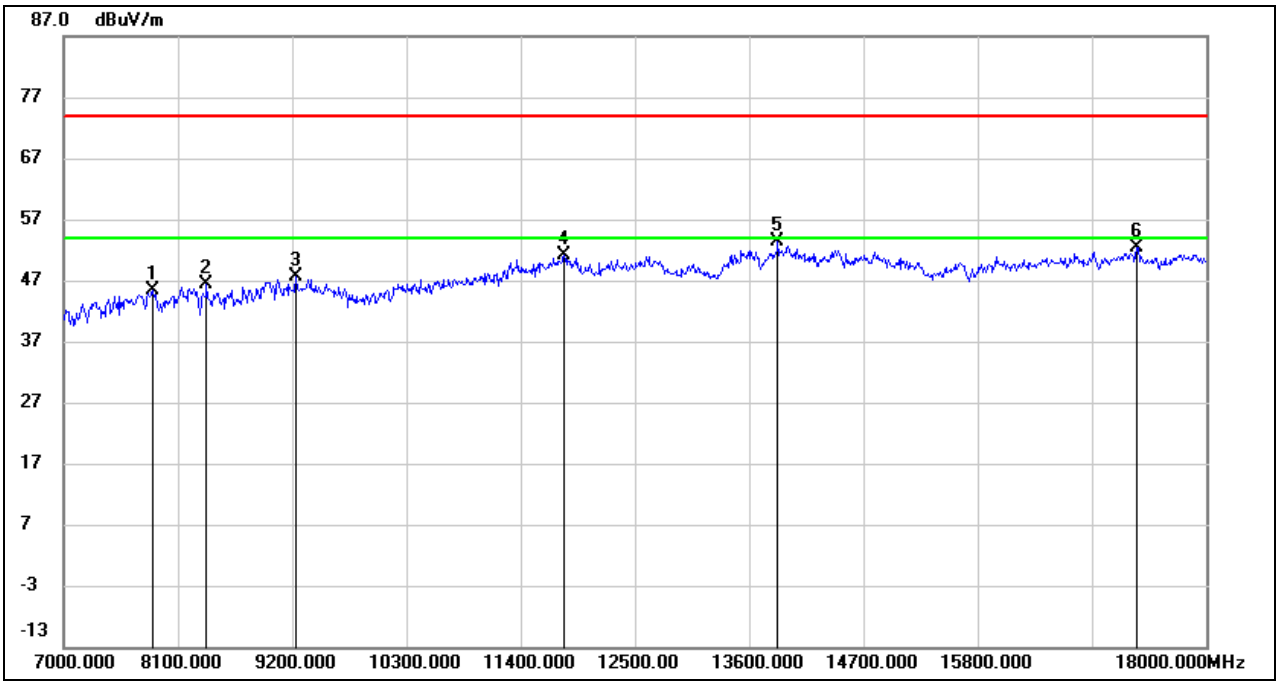


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7841.500	39.64	6.57	46.21	74.00	-27.79	peak
2	8732.500	38.94	7.65	46.59	74.00	-27.41	peak
3	9101.000	38.33	9.39	47.72	74.00	-26.28	peak
4	11834.500	35.74	15.46	51.20	74.00	-22.80	peak
5	13858.500	33.80	18.75	52.55	74.00	-21.45	peak
6	17092.500	35.24	21.02	56.26	74.00	-17.74	peak
7	17092.500	22.24	21.02	43.26	54.00	-10.74	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-3 BAND – PIFA ANTENNA

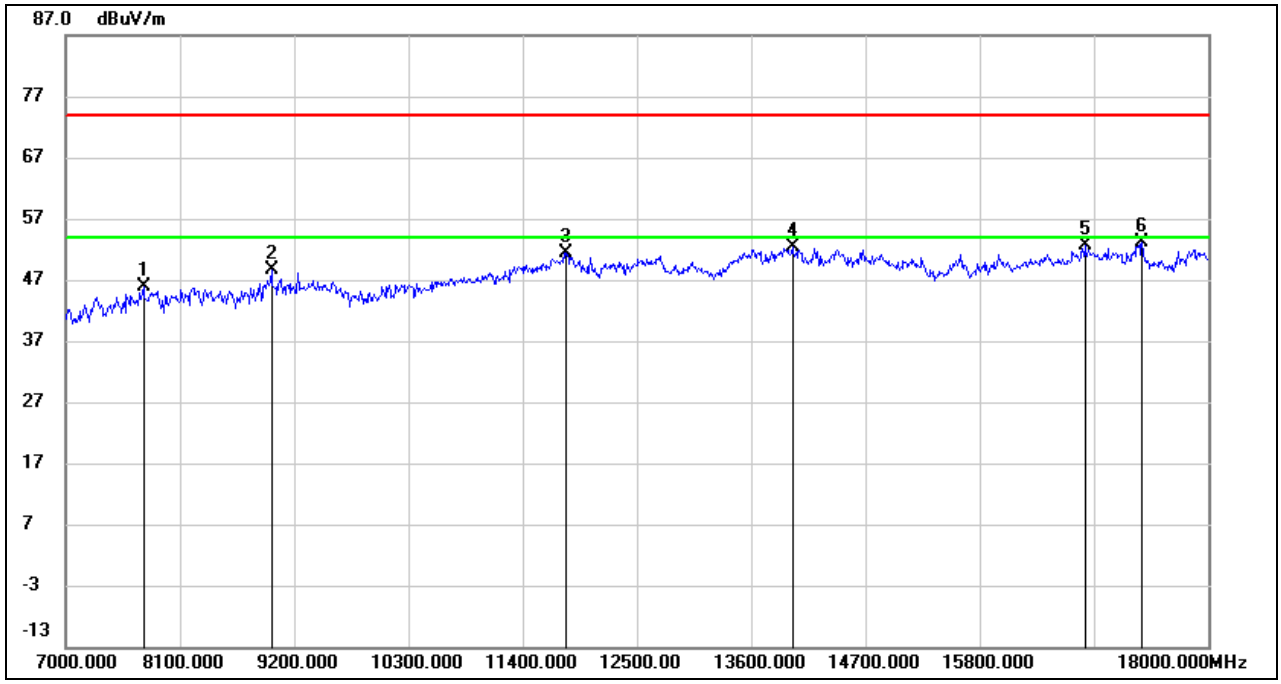
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7858.000	38.79	6.49	45.28	74.00	-28.72	peak
2	8380.500	38.97	7.37	46.34	74.00	-27.66	peak
3	9238.500	38.57	8.97	47.54	74.00	-26.46	peak
4	11818.000	35.71	15.47	51.18	74.00	-22.82	peak
5	13880.500	34.56	18.79	53.35	74.00	-20.65	peak
6	17329.000	31.13	21.23	52.36	74.00	-21.64	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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



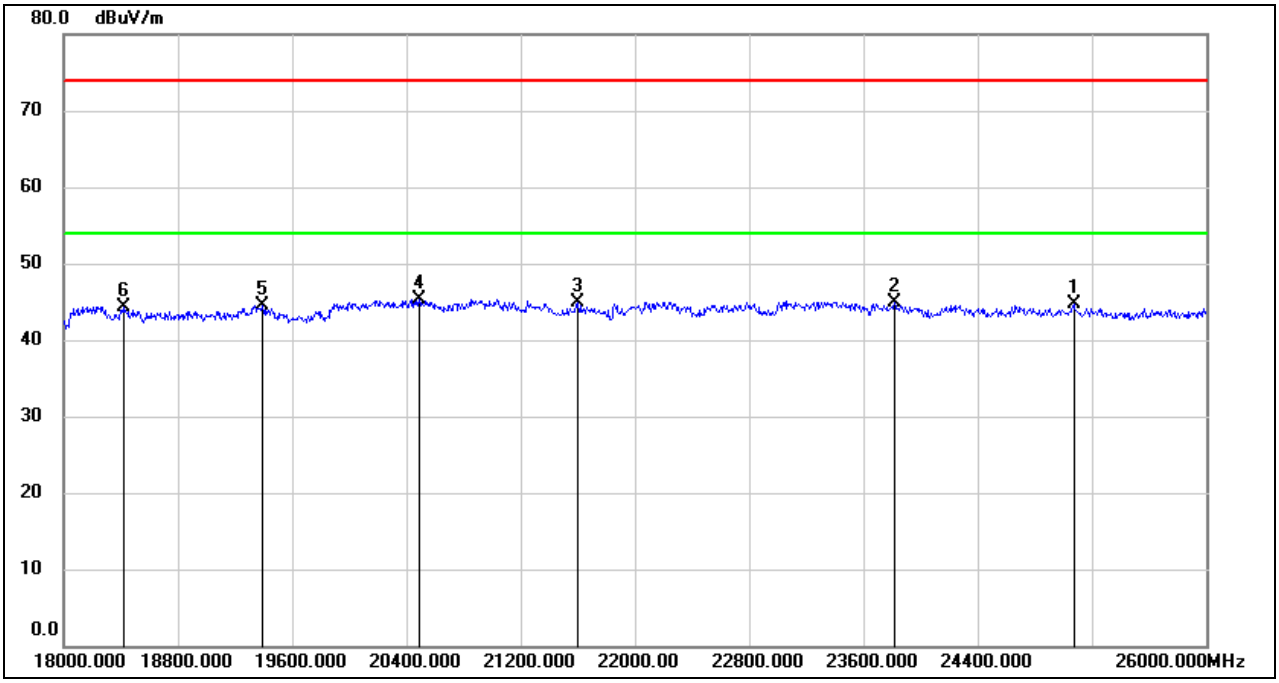
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7753.500	39.32	6.57	45.89	74.00	-28.11	peak
2	8985.500	38.79	9.86	48.65	74.00	-25.35	peak
3	11818.000	35.95	15.47	51.42	74.00	-22.58	peak
4	13996.000	33.38	18.93	52.31	74.00	-21.69	peak
5	16812.000	32.37	20.28	52.65	74.00	-21.35	peak
6	17362.000	32.03	21.17	53.20	74.00	-20.80	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. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

8.4. SPURIOUS EMISSIONS (18 GHz ~ 26 GHz)

8.4.1. 802.11a MODE – PCB ANTENNA

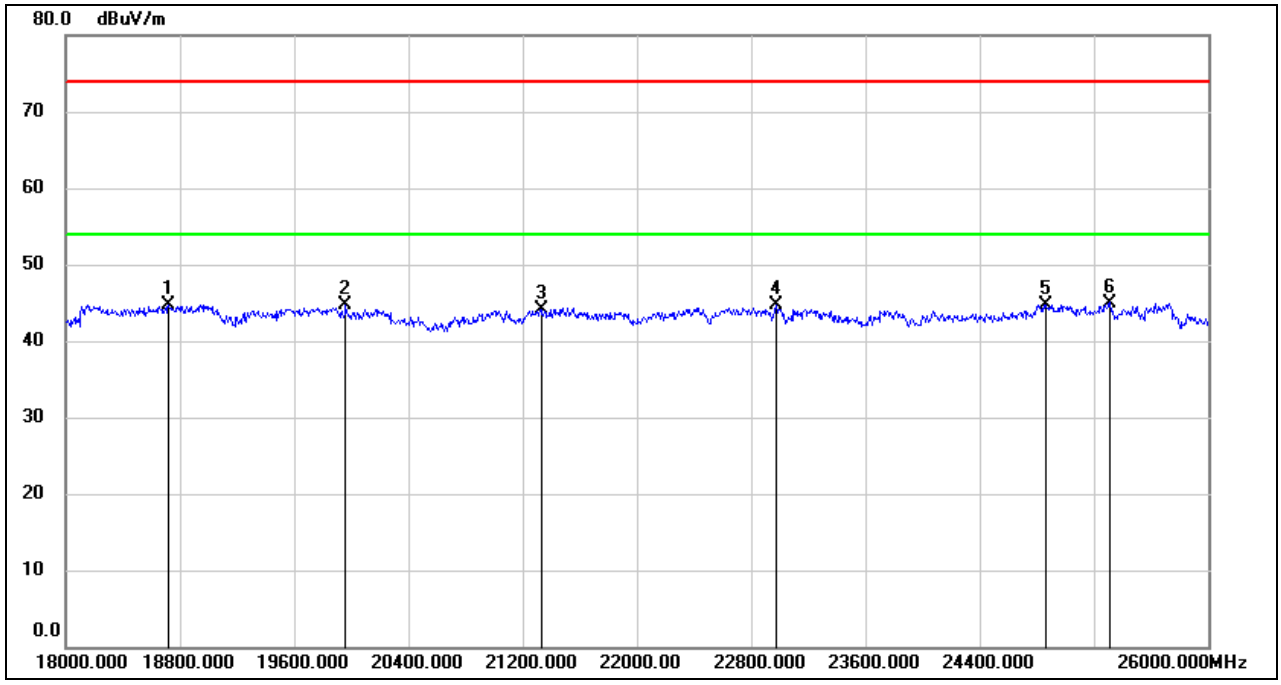
SPURIOUS EMISSIONS (UNII-1 BAND LOW CHANNEL, HORIZONTAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	25072.000	46.67	-1.97	44.70	74.00	-29.30	peak
2	23816.000	47.89	-3.08	44.81	74.00	-29.19	peak
3	21600.000	49.52	-4.54	44.98	74.00	-29.02	peak
4	20488.000	50.58	-5.36	45.22	74.00	-28.78	peak
5	19392.000	50.12	-5.57	44.55	74.00	-29.45	peak
6	18416.000	49.73	-5.35	44.38	74.00	-29.62	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.

SPURIOUS EMISSIONS (UNII-1 BAND LOW CHANNEL, VERTICAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18720.000	50.03	-5.40	44.63	74.00	-29.37	peak
2	19960.000	50.06	-5.42	44.64	74.00	-29.36	peak
3	21336.000	48.80	-4.74	44.06	74.00	-29.94	peak
4	22976.000	48.26	-3.46	44.80	74.00	-29.20	peak
5	24864.000	47.03	-2.23	44.80	74.00	-29.20	peak
6	25312.000	46.70	-1.70	45.00	74.00	-29.00	peak

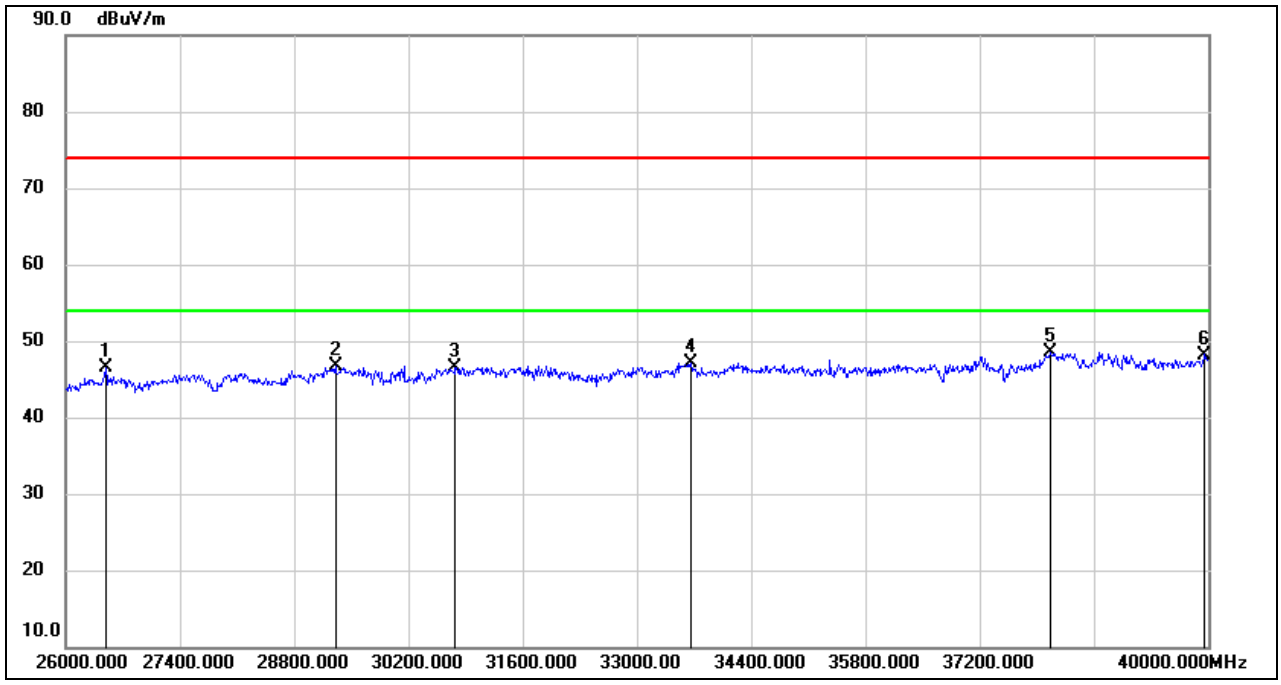
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

8.5. SPURIOUS EMISSIONS (26 GHz ~ 40 GHz)

8.5.1. 802.11a MODE – PCB ANTENNA

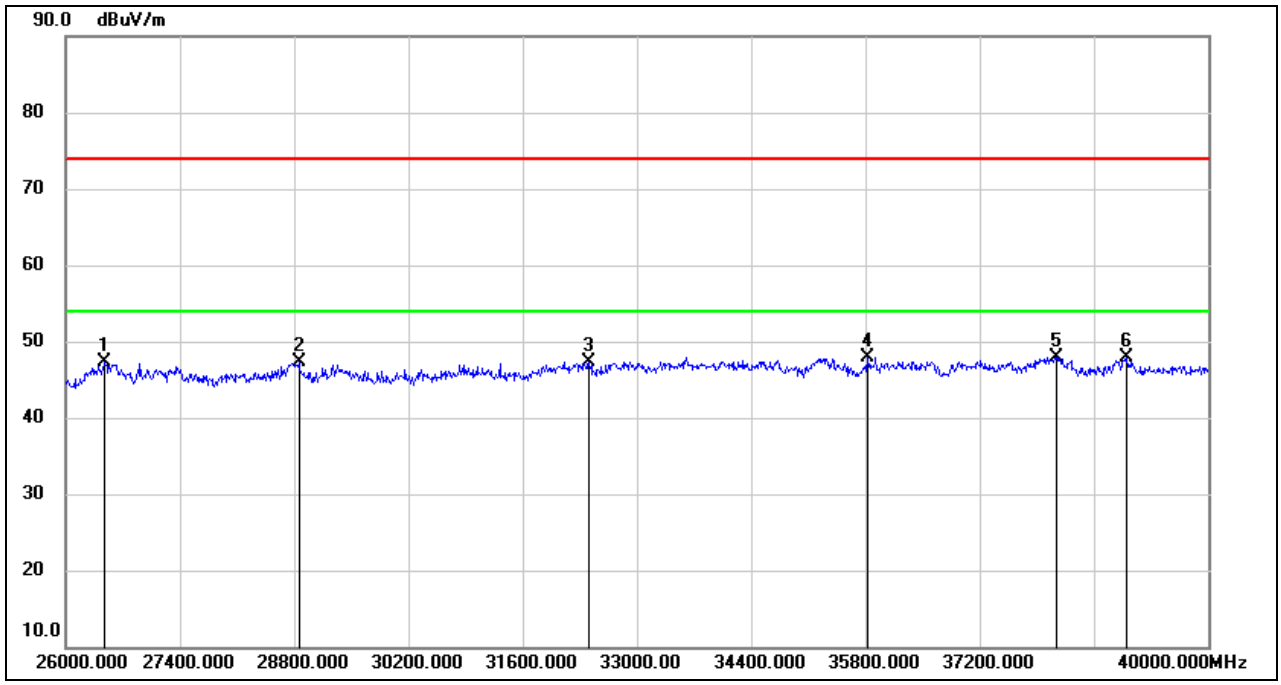
SPURIOUS EMISSIONS (UNII-1 BAND LOW CHANNEL, HORIZONTAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	26490.000	51.29	-4.74	46.55	74.00	-27.45	peak
2	29304.000	47.62	-0.97	46.65	74.00	-27.35	peak
3	30774.000	47.72	-1.13	46.59	74.00	-27.41	peak
4	33658.000	46.78	0.41	47.19	74.00	-26.81	peak
5	38068.000	45.06	3.42	48.48	74.00	-25.52	peak
6	39958.000	43.08	5.12	48.20	74.00	-25.80	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.

SPURIOUS EMISSIONS (UNII-1 BAND LOW CHANNEL, VERTICAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	26476.000	52.03	-4.78	47.25	74.00	-26.75	peak
2	28856.000	48.11	-0.90	47.21	74.00	-26.79	peak
3	32412.000	48.65	-1.40	47.25	74.00	-26.75	peak
4	35828.000	44.25	3.67	47.92	74.00	-26.08	peak
5	38138.000	44.39	3.59	47.98	74.00	-26.02	peak
6	39006.000	43.62	4.37	47.99	74.00	-26.01	peak

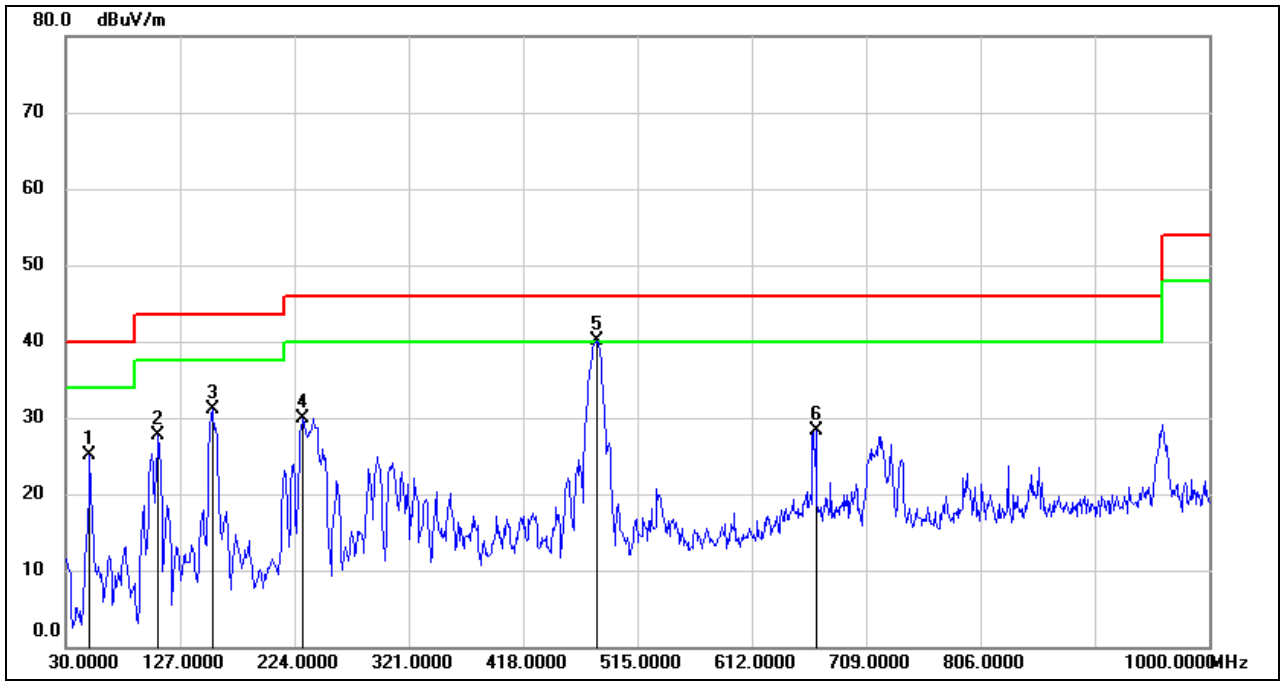
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

8.6. SPURIOUS EMISSIONS (30 MHz ~ 1 GHz)

8.6.1. 802.11a MODE – PCB ANTENNA

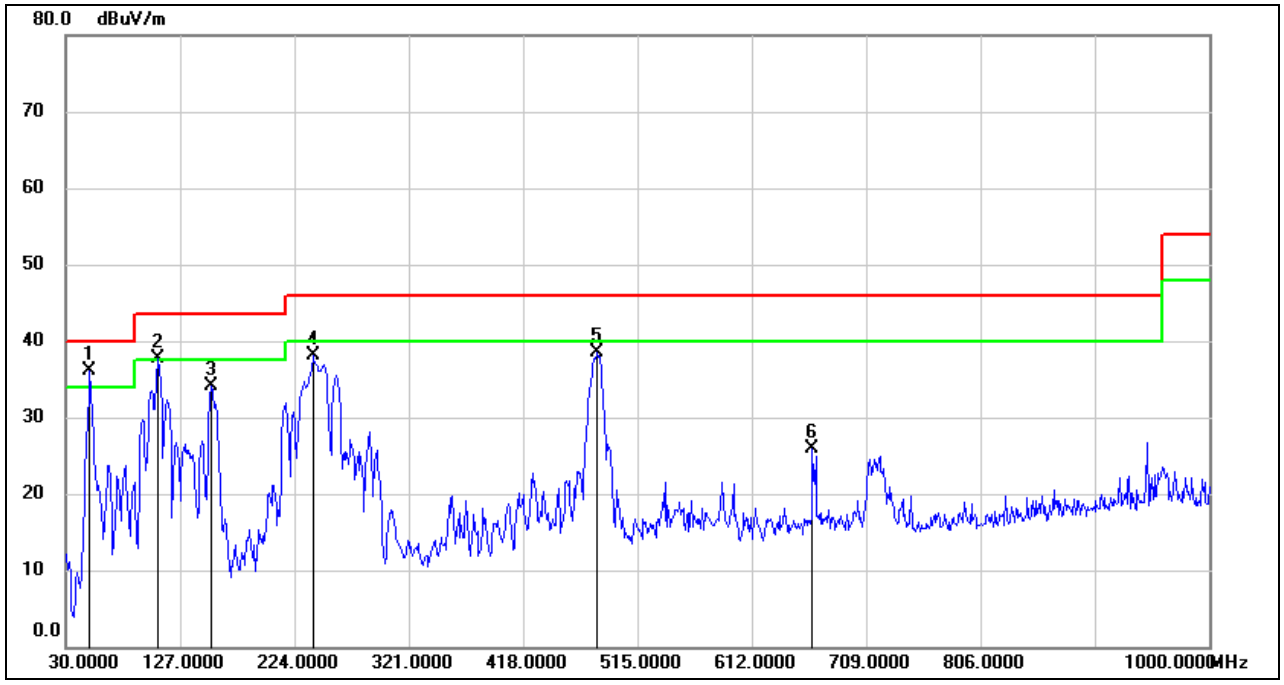
SPURIOUS EMISSIONS (UNII-1 BAND LOW CHANNEL, HORIZONTAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	50.3700	45.82	-20.76	25.06	40.00	-14.94	QP
2	108.5700	48.27	-20.53	27.74	43.50	-15.76	QP
3	154.1600	49.22	-18.06	31.16	43.50	-12.34	QP
4	230.7900	48.59	-18.71	29.88	46.00	-16.12	QP
5	480.0800	51.90	-11.79	40.11	46.00	-5.89	QP
6	666.3200	36.87	-8.65	28.22	46.00	-17.78	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 (UNII-1 BAND LOW CHANNEL, VERTICAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	50.3700	56.83	-20.76	36.07	40.00	-3.93	QP
2	108.5700	58.24	-20.53	37.71	43.50	-5.79	QP
3	153.1900	52.12	-18.10	34.02	43.50	-9.48	QP
4	239.5200	57.31	-19.16	38.15	46.00	-7.85	QP
5	481.0500	50.22	-11.78	38.44	46.00	-7.56	QP
6	663.4099	34.61	-8.66	25.95	46.00	-20.05	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

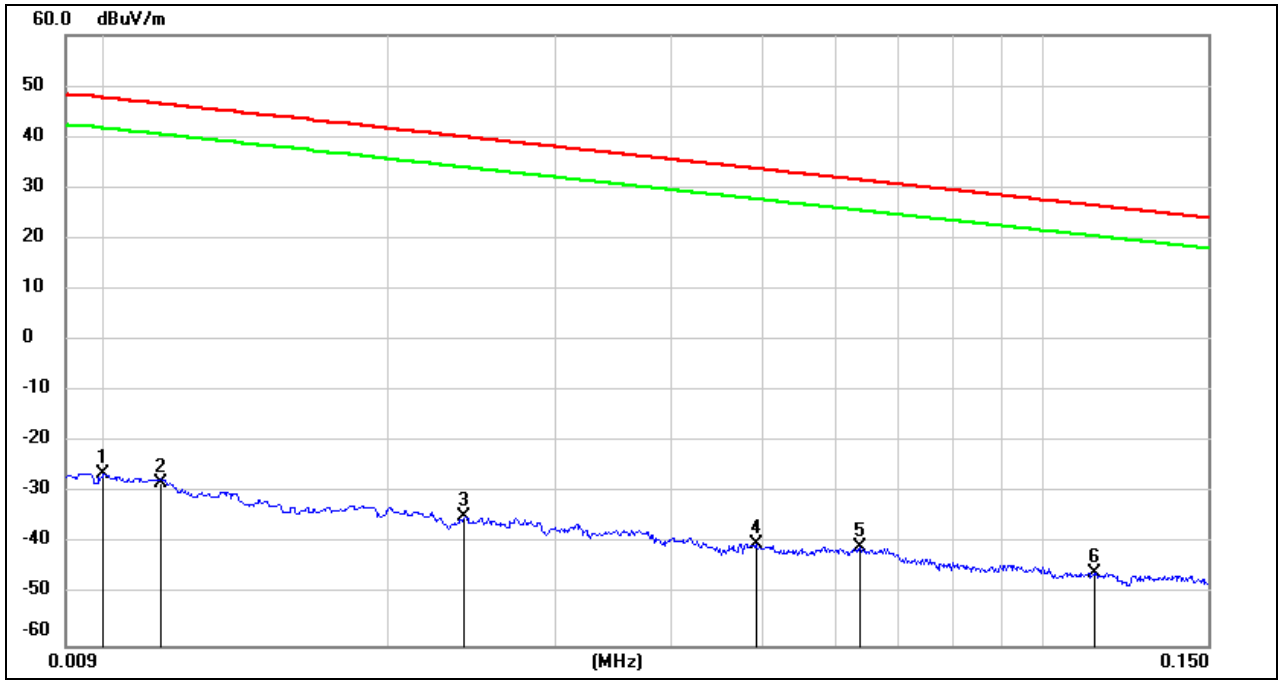
Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

8.7. SPURIOUS EMISSIONS BELOW 30 MHz – PCB ANTENNA

8.7.1. 802.11a MODE

SPURIOUS EMISSIONS (UNII-1 BAND LOW CHANNEL, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)

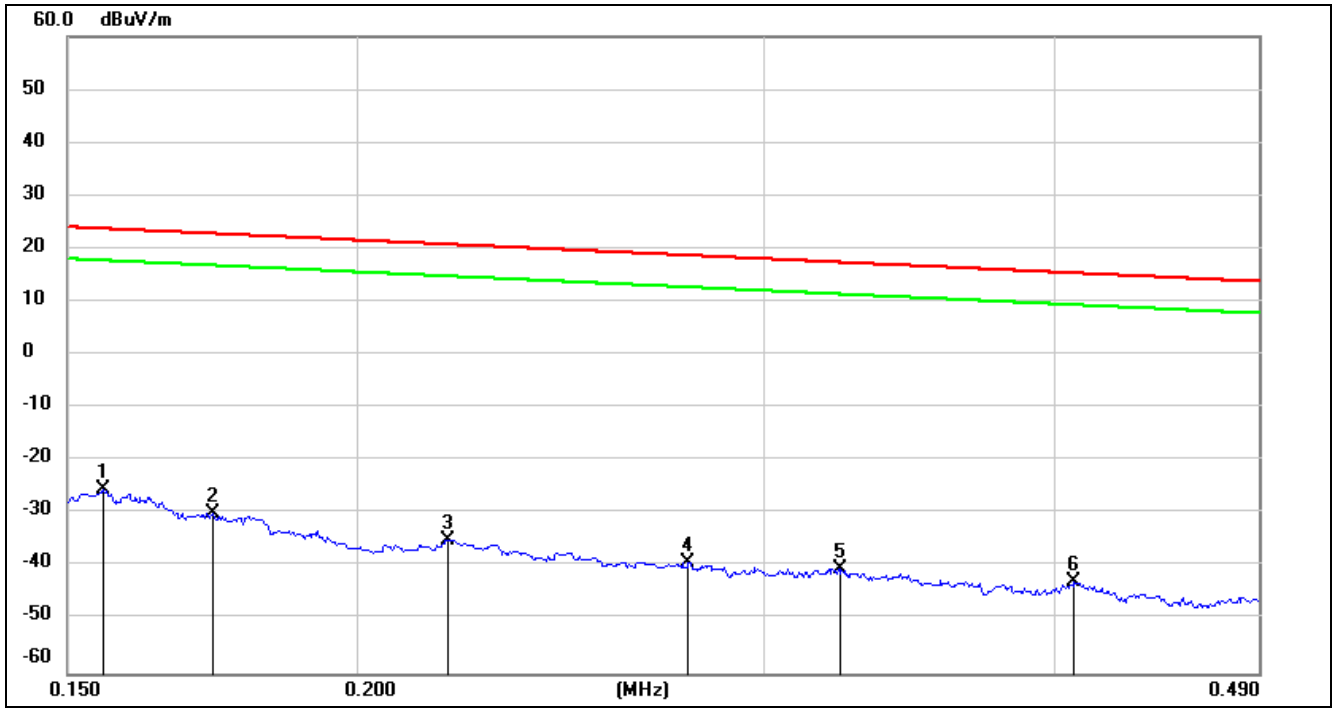
9 kHz~ 150 kHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0100	75.22	-101.40	-26.18	47.60	-73.78	peak
2	0.0114	73.45	-101.40	-27.95	46.46	-74.41	peak
3	0.0240	66.82	-101.36	-34.54	40.00	-74.54	peak
4	0.0492	61.55	-101.47	-39.92	33.76	-73.68	peak
5	0.0636	60.81	-101.54	-40.73	31.53	-72.26	peak
6	0.1136	56.03	-101.76	-45.73	26.50	-72.23	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.
4. dBuA/m = dBuV/m – 20log10(120π) = dBuV/m -51.5.

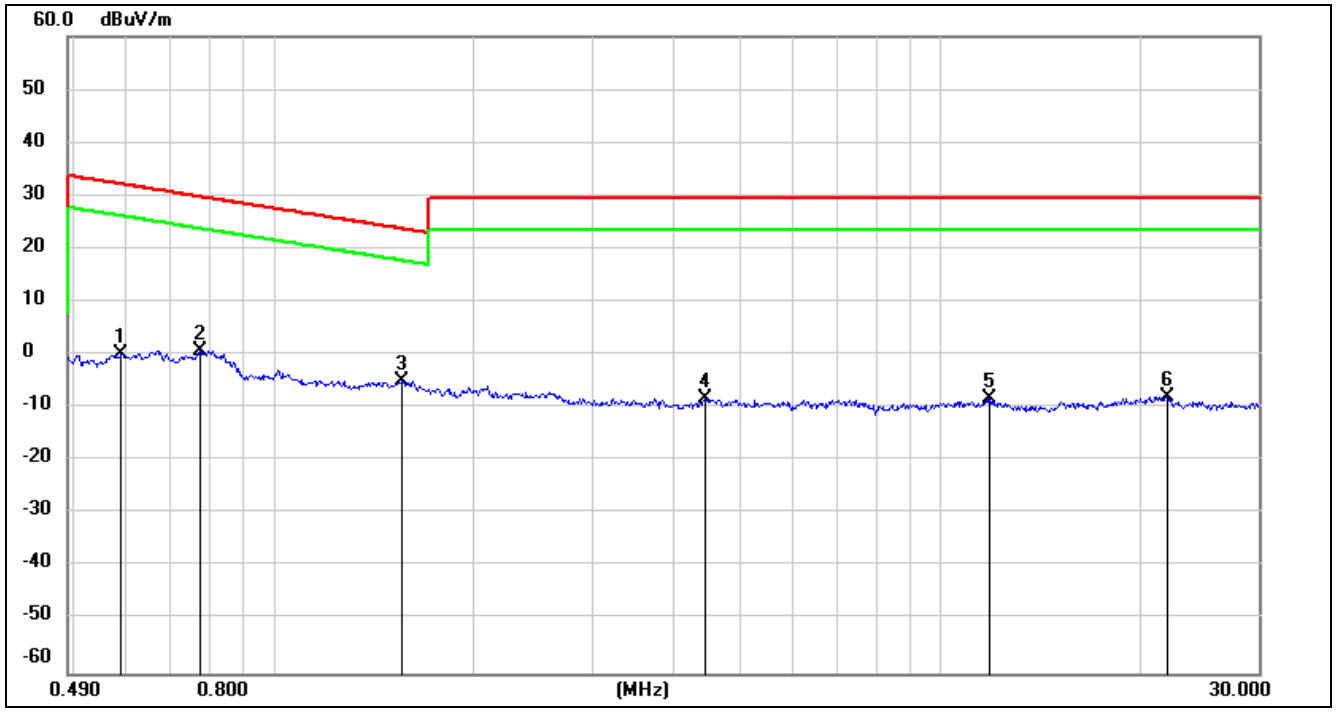
150 kHz ~ 490 kHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1554	76.27	-101.65	-25.38	23.77	-49.15	peak
2	0.1733	71.92	-101.67	-29.75	22.83	-52.58	peak
3	0.2190	66.77	-101.75	-34.98	20.79	-55.77	peak
4	0.2782	62.79	-101.83	-39.04	18.71	-57.75	peak
5	0.3234	61.48	-101.88	-40.40	17.41	-57.81	peak
6	0.4081	59.08	-101.97	-42.89	15.39	-58.28	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.
4. dBuA/m = dBuV/m – 20log10(120π) = dBuV/m -51.5.

490 kHz ~ 30 MHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.5897	62.35	-62.08	0.27	32.19	-31.92	peak
2	0.7737	62.91	-62.13	0.78	29.83	-29.05	peak
3	1.5564	57.18	-62.02	-4.84	23.76	-28.60	peak
4	4.4443	53.29	-61.40	-8.11	29.54	-37.65	peak
5	11.8513	52.56	-60.88	-8.32	29.54	-37.86	peak
6	21.9143	52.72	-60.69	-7.97	29.54	-37.51	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.
4. dBuA/m = dBuV/m – 20log10(120π) = dBuV/m -51.5.

Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

9. AC POWER LINE CONDUCTED EMISSIONS

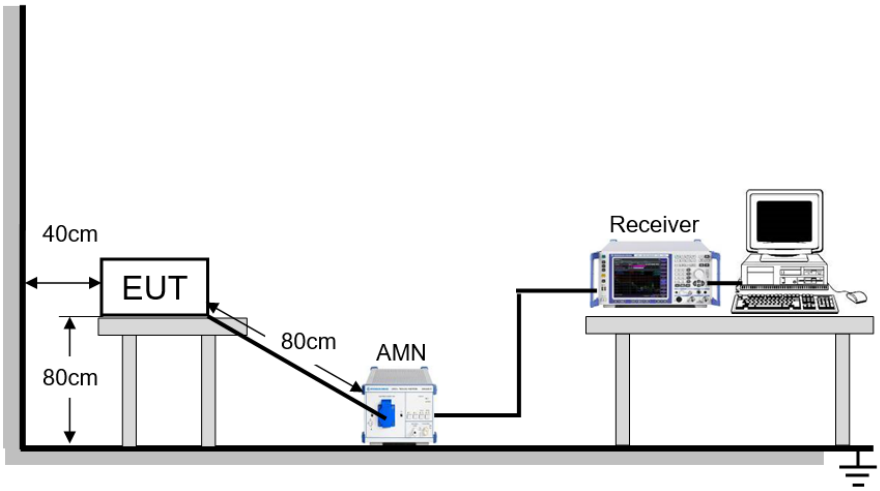
LIMITS

Please refer to CFR 47 FCC §15.207 (a) .

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

Refer to ANSI C63.10-2013 clause 6.2.



The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a 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 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

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.

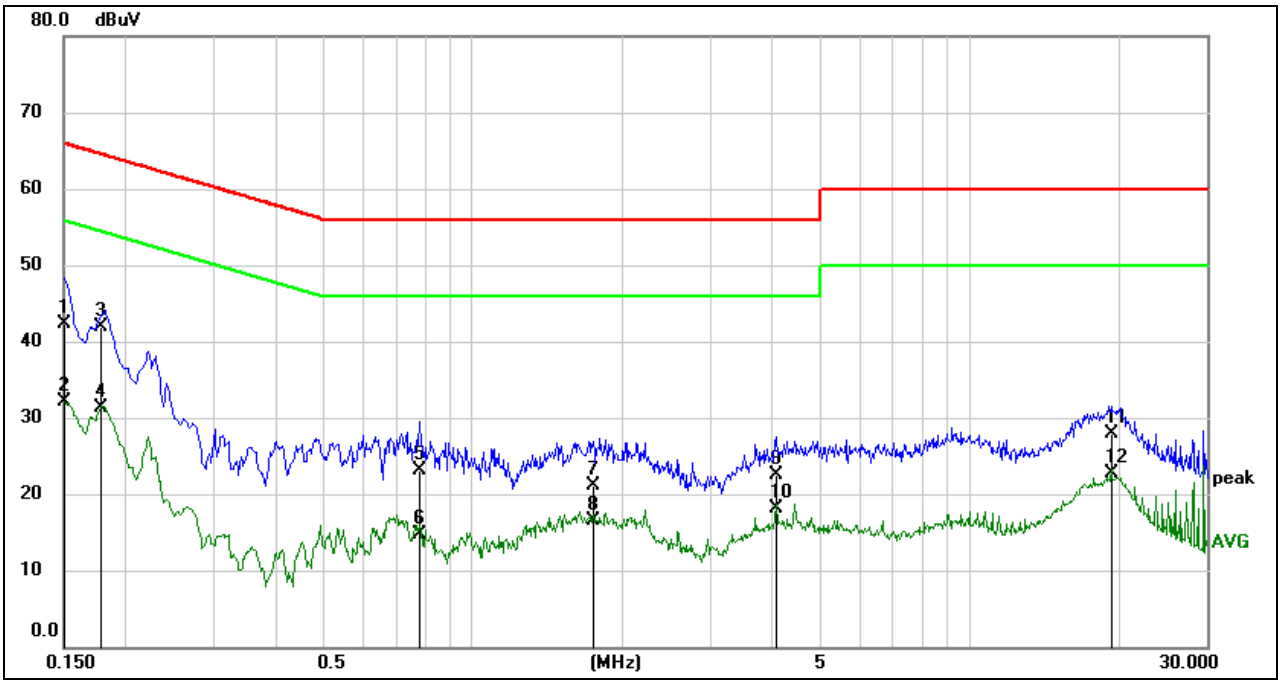
TEST ENVIRONMENT

Temperature	20.6 °C	Relative Humidity	62.1 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

9.1.1. 802.11a MODE – PCB ANTENNA

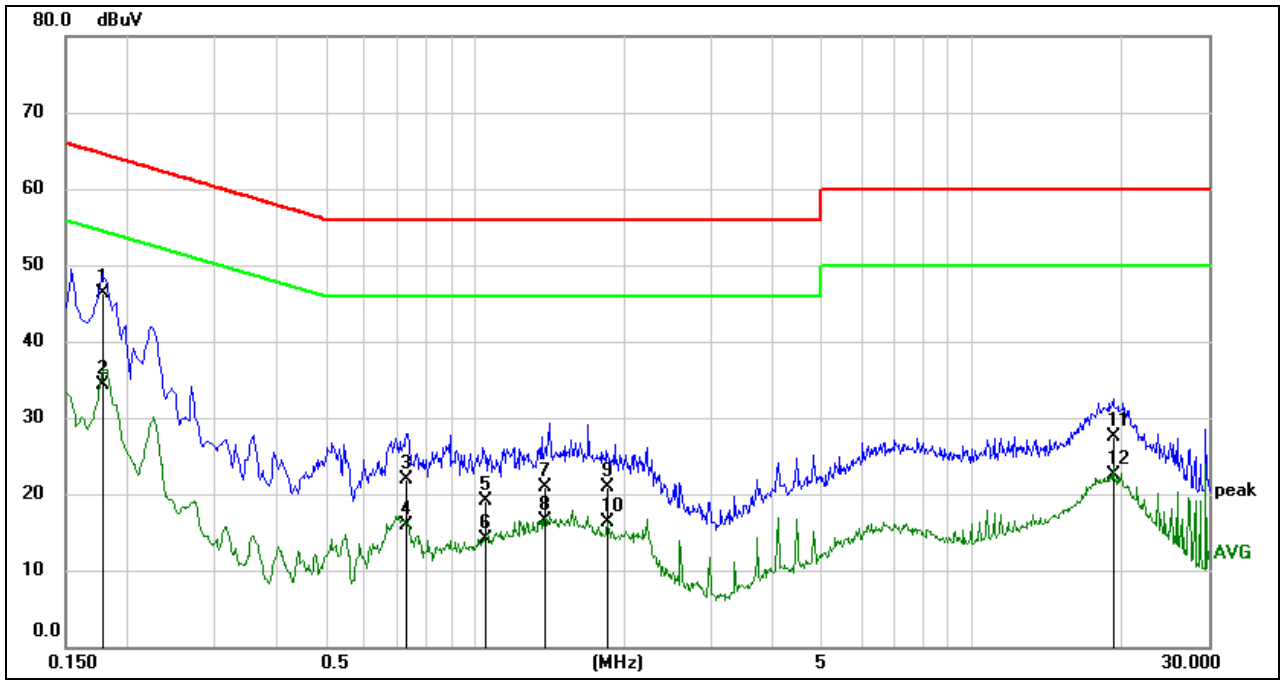
LINE L RESULTS (UNII-1 BAND LOW CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1505	32.82	9.49	42.31	65.97	-23.66	QP
2	0.1505	22.60	9.49	32.09	55.97	-23.88	AVG
3	0.1778	32.36	9.55	41.91	64.59	-22.68	QP
4	0.1778	21.82	9.55	31.37	54.59	-23.22	AVG
5	0.7811	13.57	9.50	23.07	56.00	-32.93	QP
6	0.7811	5.20	9.50	14.70	46.00	-31.30	AVG
7	1.7499	11.56	9.59	21.15	56.00	-34.85	QP
8	1.7499	7.00	9.59	16.59	46.00	-29.41	AVG
9	4.0787	12.94	9.58	22.52	56.00	-33.48	QP
10	4.0787	8.51	9.58	18.09	46.00	-27.91	AVG
11	19.2603	18.14	9.73	27.87	60.00	-32.13	QP
12	19.2603	12.94	9.73	22.67	50.00	-27.33	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: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

LINE N RESULTS (UNII-1 BAND LOW CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1771	36.82	9.54	46.36	64.62	-18.26	QP
2	0.1771	24.85	9.54	34.39	54.62	-20.23	AVG
3	0.7275	12.32	9.50	21.82	56.00	-34.18	QP
4	0.7275	6.33	9.50	15.83	46.00	-30.17	AVG
5	1.0545	9.58	9.52	19.10	56.00	-36.90	QP
6	1.0545	4.62	9.52	14.14	46.00	-31.86	AVG
7	1.3864	11.33	9.55	20.88	56.00	-35.12	QP
8	1.3864	6.91	9.55	16.46	46.00	-29.54	AVG
9	1.8556	11.31	9.61	20.92	56.00	-35.08	QP
10	1.8556	6.76	9.61	16.37	46.00	-29.63	AVG
11	19.2663	17.74	9.73	27.47	60.00	-32.53	QP
12	19.2663	12.68	9.73	22.41	50.00	-27.59	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: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes had been tested, but only the worst data was recorded in the report.

10. FREQUENCY STABILITY

LIMITS

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

TEST PROCEDURE

1. The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between -10 °C ~ 70 °C (declared by customer).

2. The temperature was incremented by 10 °C intervals and the unit allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.

3. The primary supply voltage is varied from 85 % to 115 % of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

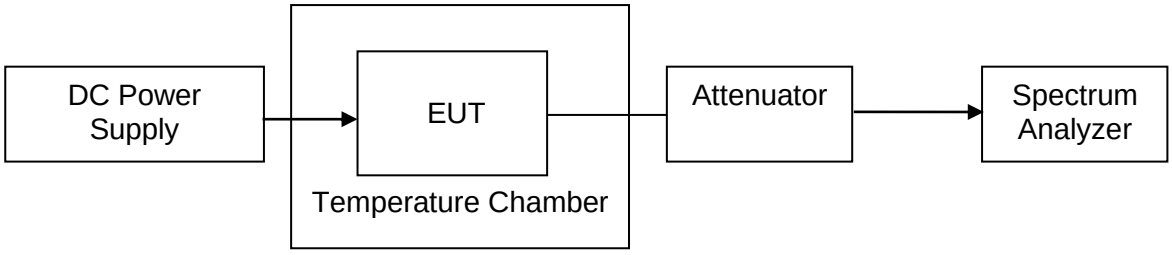
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	10 kHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

4. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5minutes, and 10 minutes after the EUT is energized.

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

TEST SETUP



TEST ENVIRONMENT

	Normal Test Conditions	Extreme Test Conditions
Relative Humidity	20 % - 75 %	/
Atmospheric Pressure	100 kPa ~102 kPa	/
Temperature	T_N (Normal Temperature): 25.1 °C	LT(Low Temperature): -10 °C
		HT(High Temperature): 70 °C
Supply Voltage	V_N (Normal Voltage): DC 5 V	LT(Low Voltage): DC 4.5 V
		HT(High Voltage): DC 5.5 V

RESULTS

Please refer to Appendix H.

11. DYNAMIC FREQUENCY SELECTION

APPLICABILITY OF DFS REQUIREMENTS

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid co-channel operation with these systems. This applies to the 5250-5350 MHz and/or 5470-5725 MHz bands.
Within the context of the operation of the DFS function, a U-NII device will operate in either Master Mode or Client Mode. U-NII devices operating in Client Mode can only operate in a network controlled by a U-NII device operating in Master Mode.

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

Requirement	Operational Mode		
	☐ Master	☒ Client Without Radar Detection	☐ 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	
	☐ Master Device or Client with Radar Detection	☒ 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	☐ Master Device or Client with Radar Detection	☒ 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.		

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 ≥ 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 SISO 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

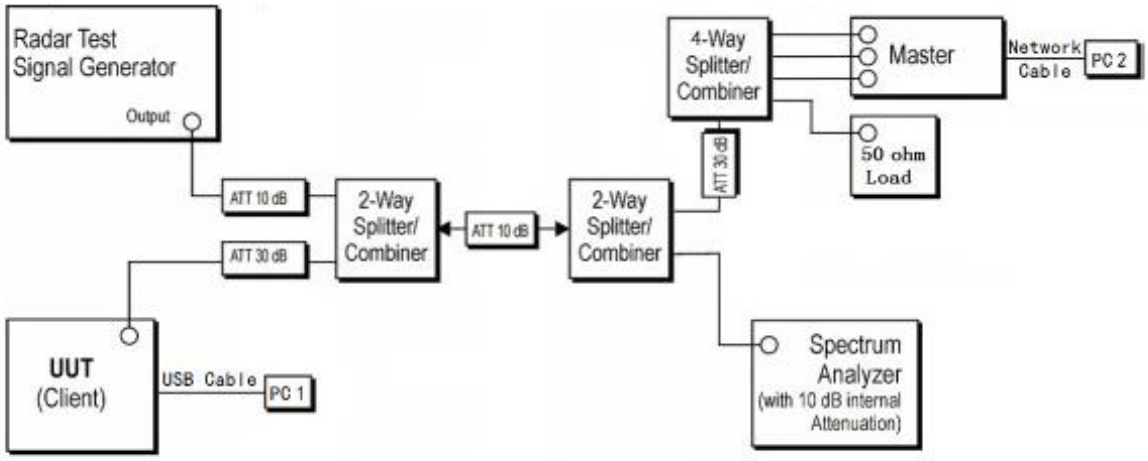
Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$	60%	30
		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



TEST ENVIRONMENT

Temperature	26.2 °C	Relative Humidity	55.8 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

RESULTS

Please refer to Appendix E & F & G.

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

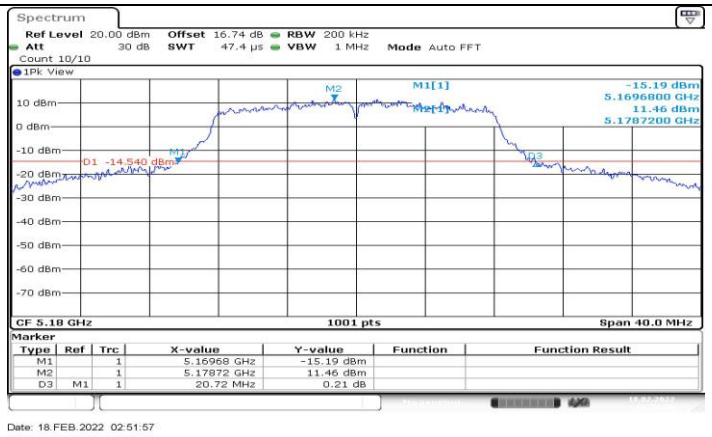
Complies

12.1. Appendix A1: Emission Bandwidth

12.1.1. Test Result

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5180	20.72	5169.68	5190.40	PASS
		5200	20.84	5189.60	5210.44	PASS
		5240	20.28	5229.80	5250.08	PASS
		5260	20.04	5250.00	5270.04	PASS
		5280	19.96	5270.04	5290.00	PASS
		5320	19.96	5310.00	5329.96	PASS
		5500	19.76	5490.04	5509.80	PASS
		5580	20.20	5569.84	5590.04	PASS
		5700	20.08	5689.84	5709.92	PASS
		5720	20.24	5709.72	5729.96	PASS
		5720_UNII-2C	15.28	5709.72	5725	PASS
		5720_UNII-3	4.96	5725	5729.96	PASS
		5745	20.36	5734.80	5755.16	PASS
		5785	20.00	5774.88	5794.88	PASS
		5825	19.92	5815.04	5834.96	PASS
11N20SISO	Ant1	5180	20.08	5169.92	5190.00	PASS
		5200	20.16	5189.84	5210.00	PASS
		5240	20.20	5229.88	5250.08	PASS
		5260	20.44	5249.76	5270.20	PASS
		5280	20.56	5269.76	5290.32	PASS
		5320	20.16	5309.88	5330.04	PASS
		5500	20.04	5489.88	5509.92	PASS
		5580	20.48	5569.76	5590.24	PASS
		5700	20.44	5689.72	5710.16	PASS
		5720	20.16	5709.84	5730.00	PASS
		5720_UNII-2C	15.16	5709.84	5725	PASS
		5720_UNII-3	5	5725	5730.00	PASS
		5745	20.32	5734.68	5755.00	PASS
		5785	20.20	5774.88	5795.08	PASS
		5825	20.20	5814.88	5835.08	PASS
11N40SISO	Ant1	5190	40.88	5169.52	5210.40	PASS
		5230	41.44	5209.28	5250.72	PASS
		5270	41.44	5249.20	5290.64	PASS
		5310	41.28	5289.36	5330.64	PASS
		5510	41.20	5489.52	5530.72	PASS
		5590	41.60	5568.96	5610.56	PASS
		5670	41.44	5649.36	5690.80	PASS
		5710	41.28	5689.36	5730.64	PASS
		5710_UNII-2C	35.64	5689.36	5725	PASS
		5710_UNII-3	5.64	5725	5730.64	PASS
		5755	41.28	5734.36	5775.64	PASS
		5795	41.44	5774.20	5815.64	PASS
11AC80SISO	Ant1	5210	81.60	5169.20	5250.80	PASS
		5290	81.60	5249.20	5330.80	PASS
		5530	82.08	5489.04	5571.12	PASS
		5610	82.24	5568.88	5651.12	PASS
		5690	81.76	5649.20	5730.96	PASS
		5690_UNII-2C	75.8	5649.20	5725	PASS
		5690_UNII-3	5.96	5725	5730.96	PASS
		5775	81.60	5734.20	5815.80	PASS

12.1.2. Test Graphs



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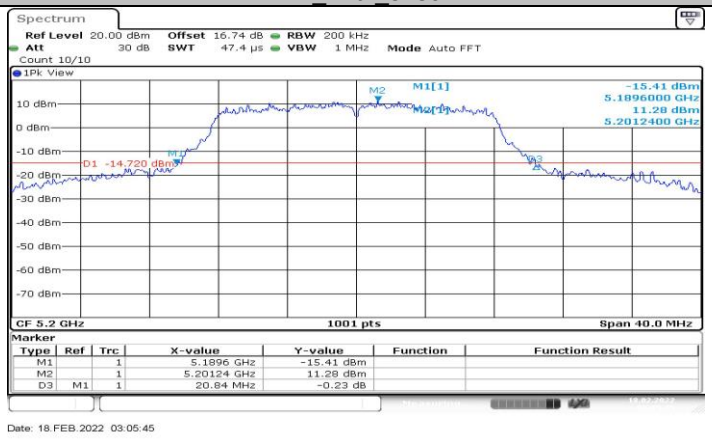

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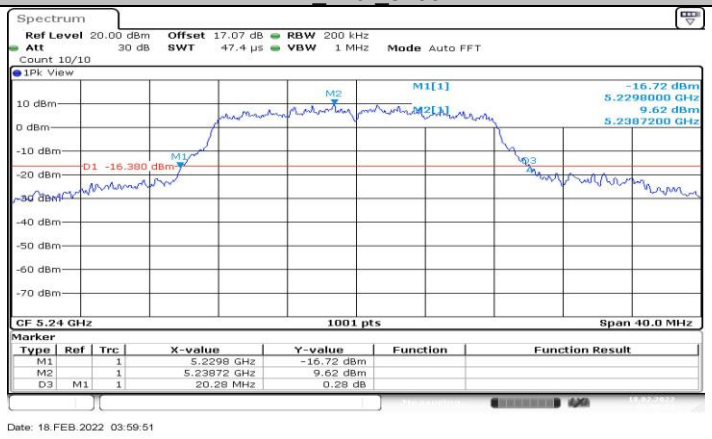

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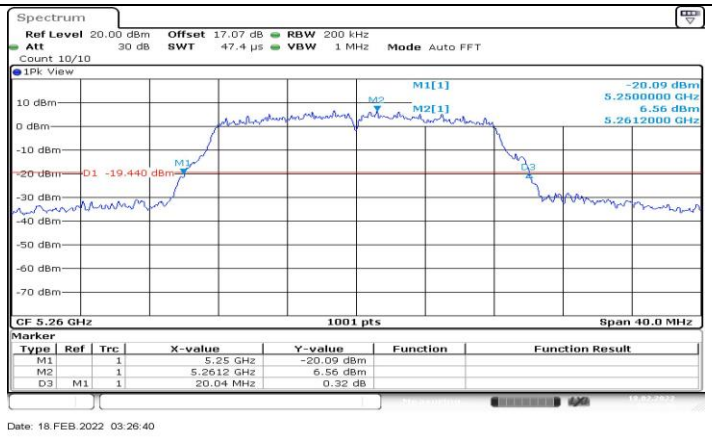

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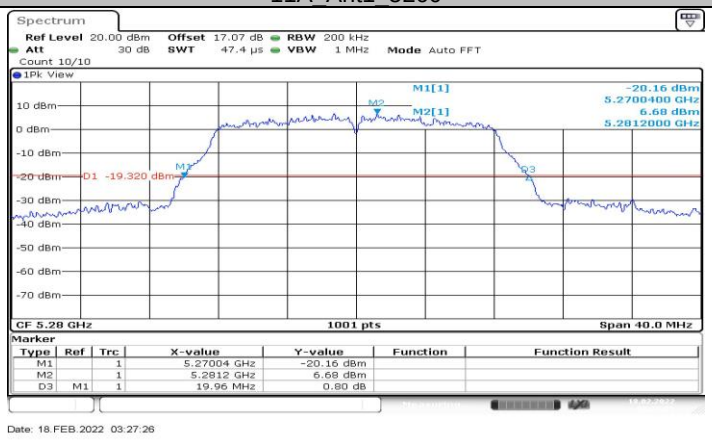

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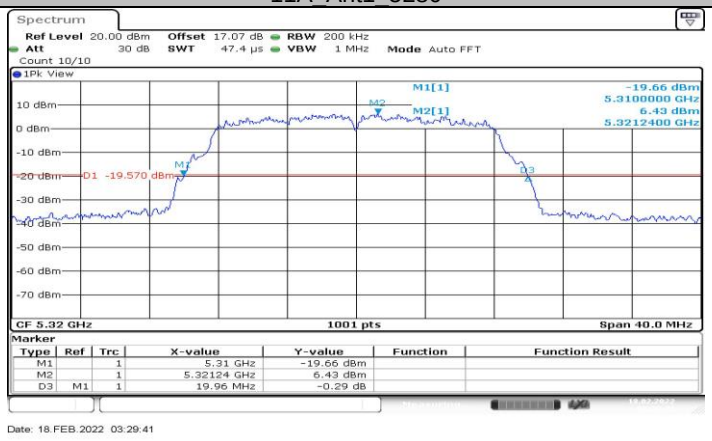

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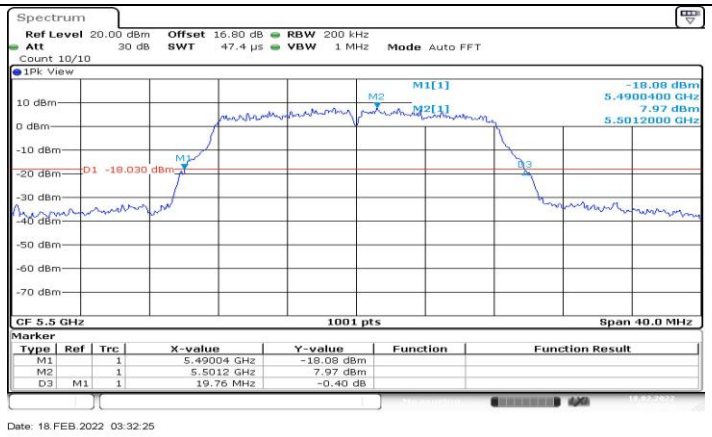

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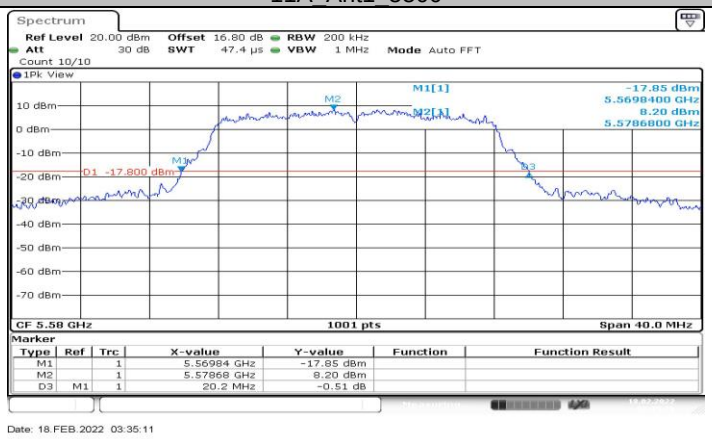

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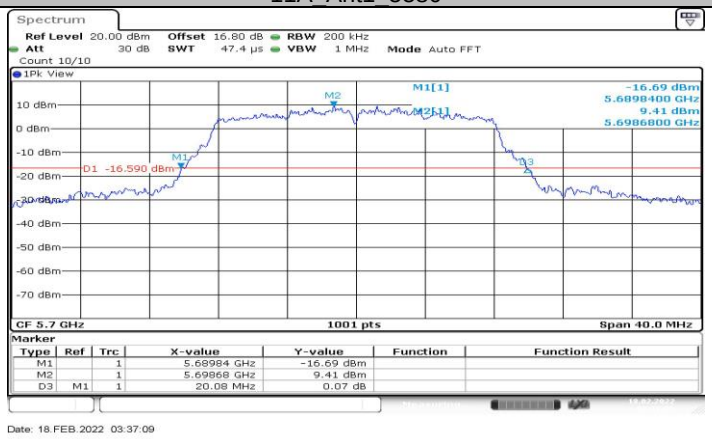

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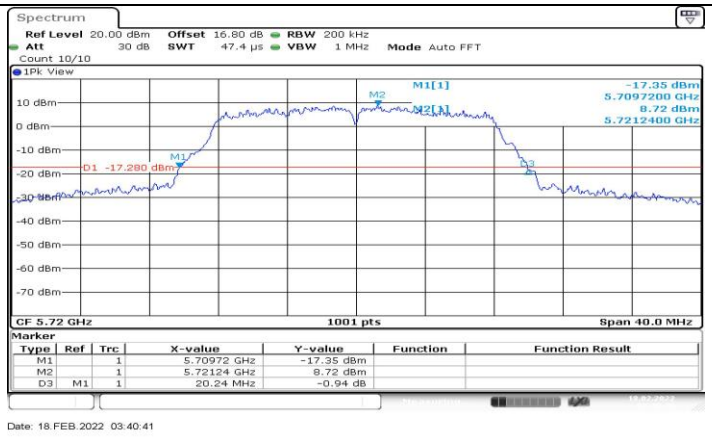

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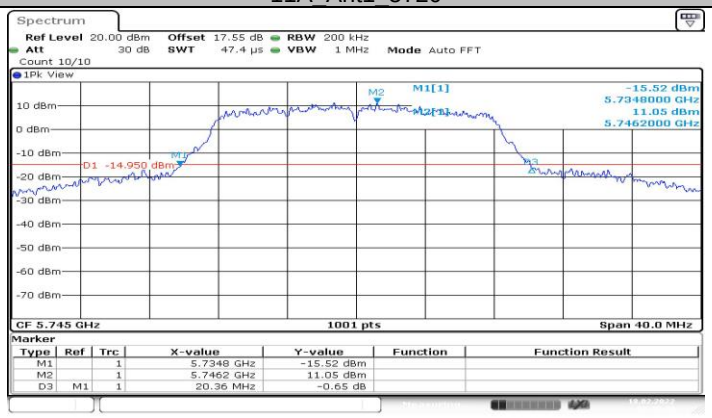

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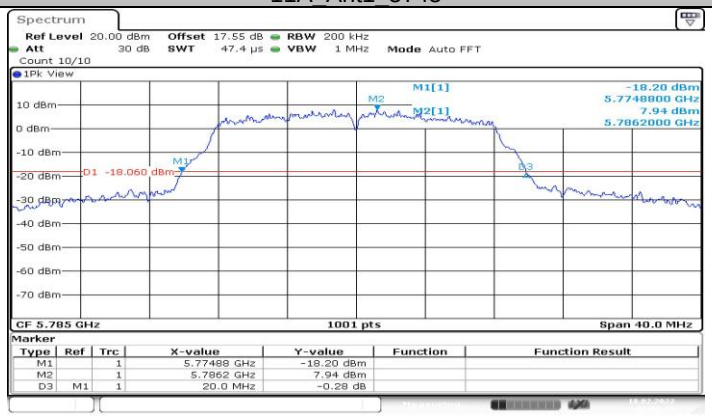

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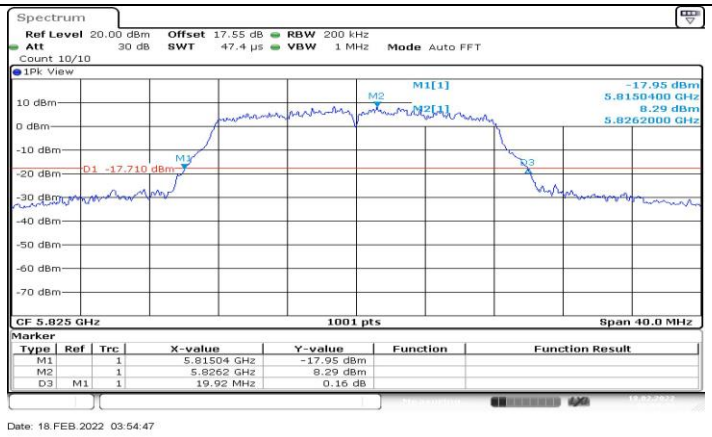

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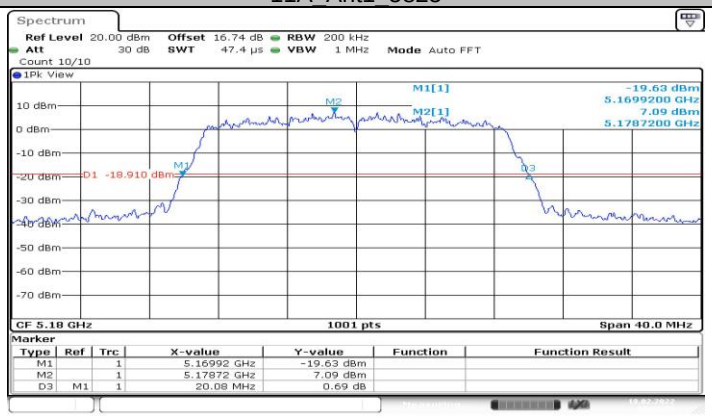

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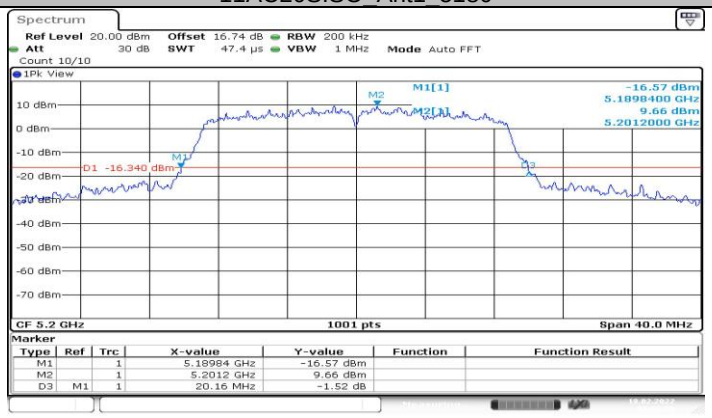

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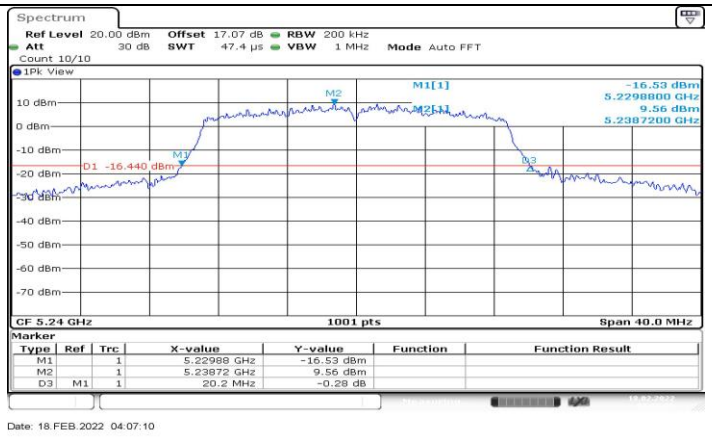

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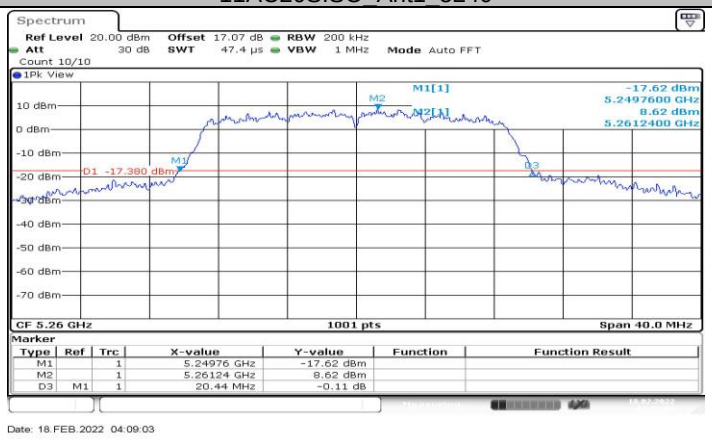

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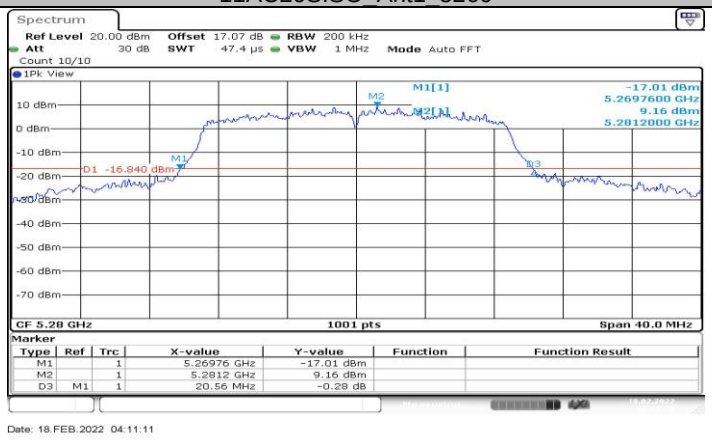

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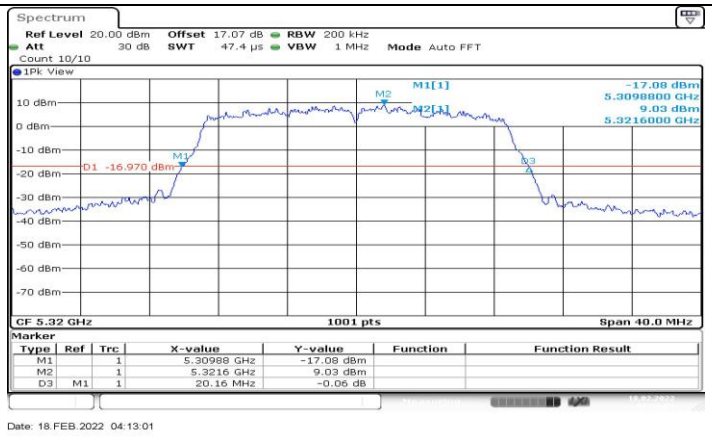

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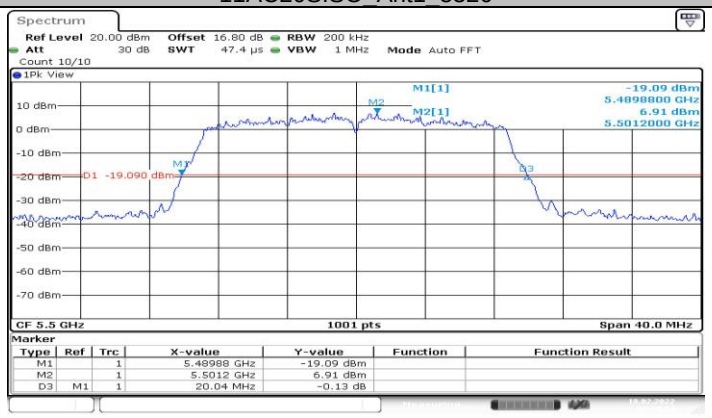

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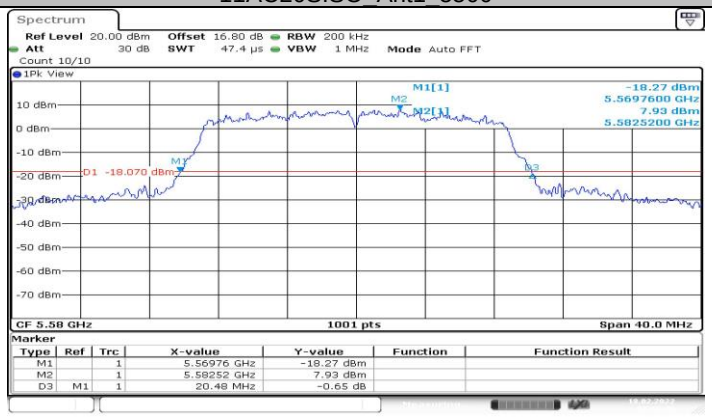

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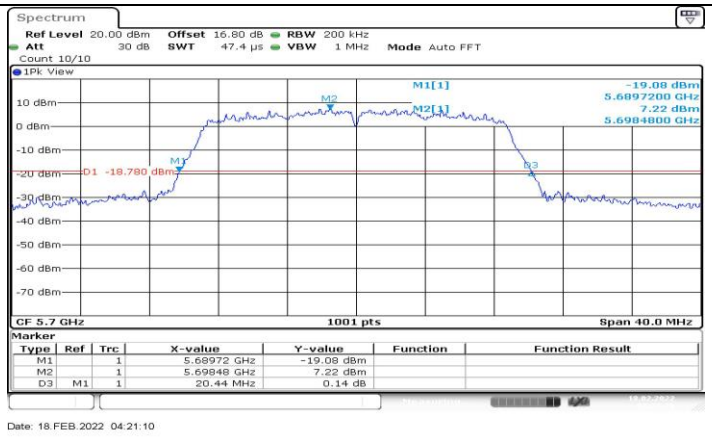

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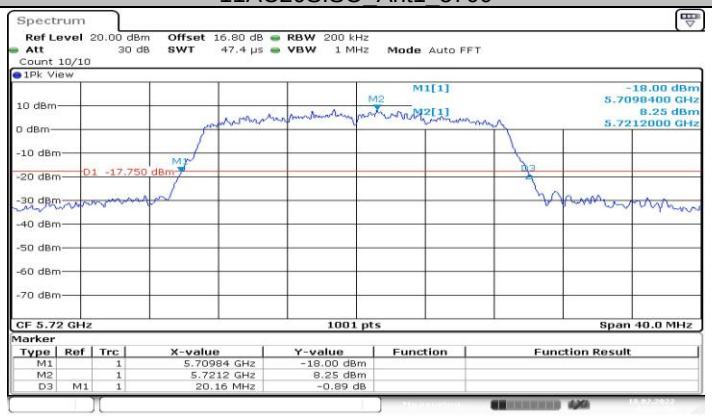

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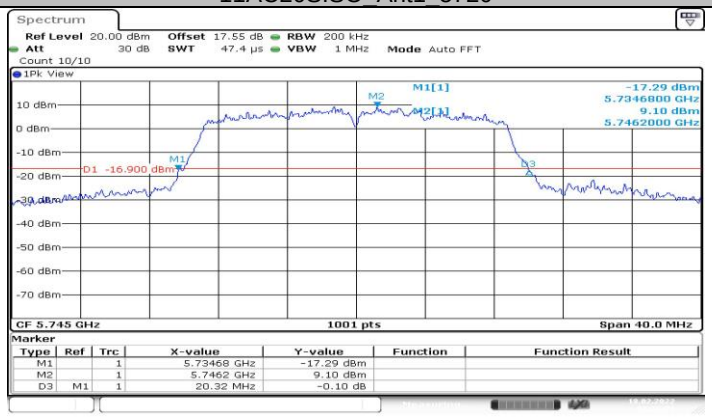

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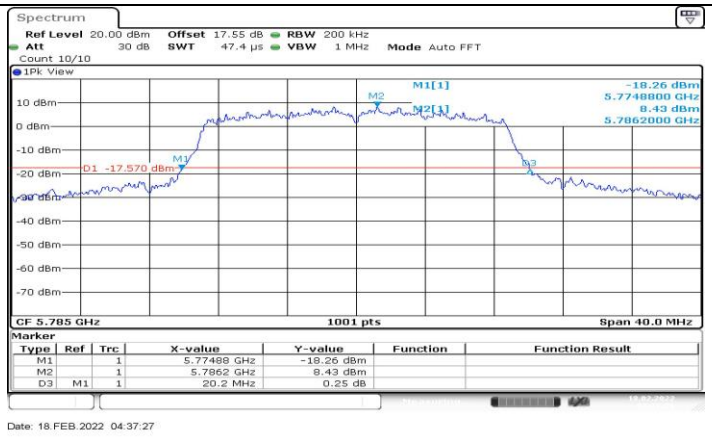

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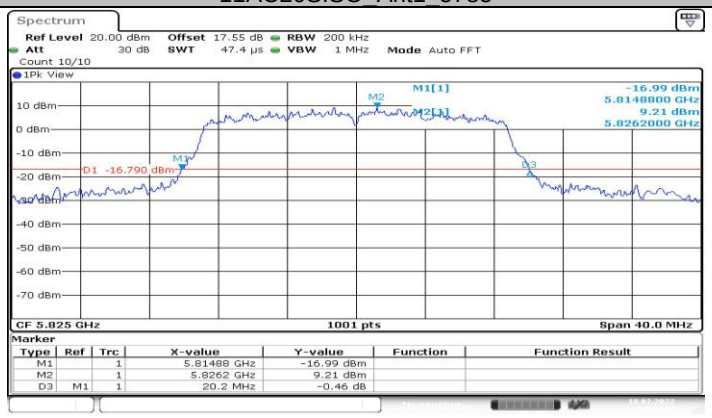

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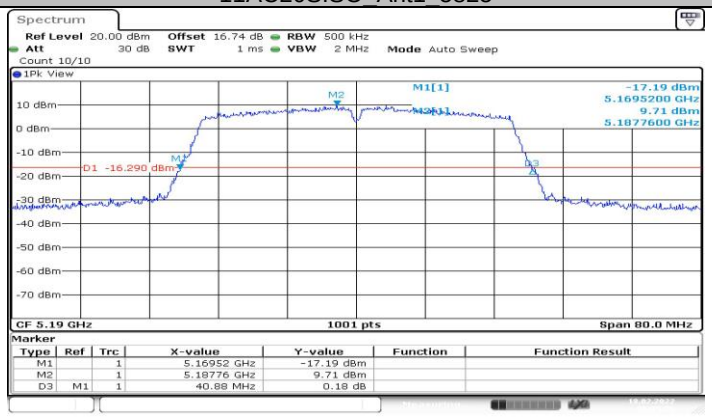

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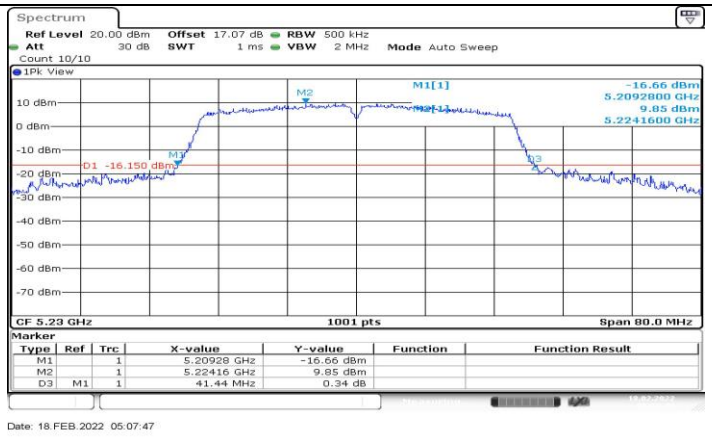

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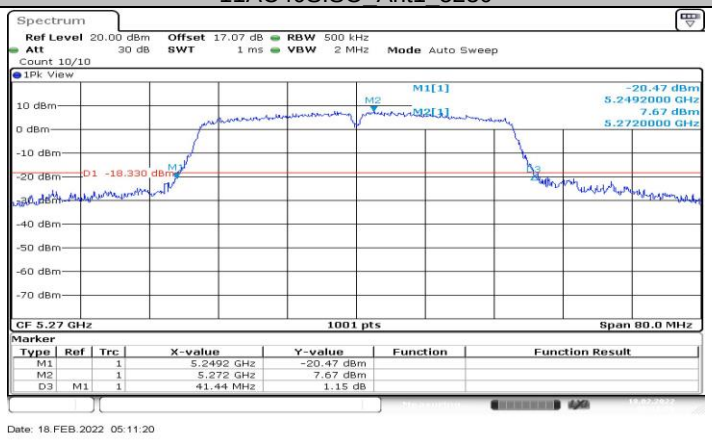

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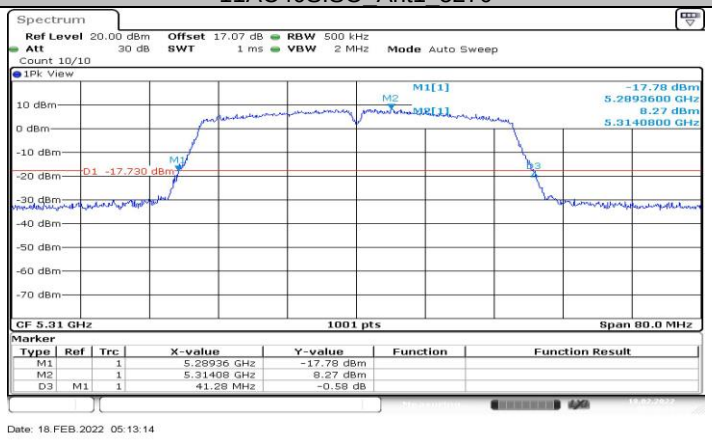

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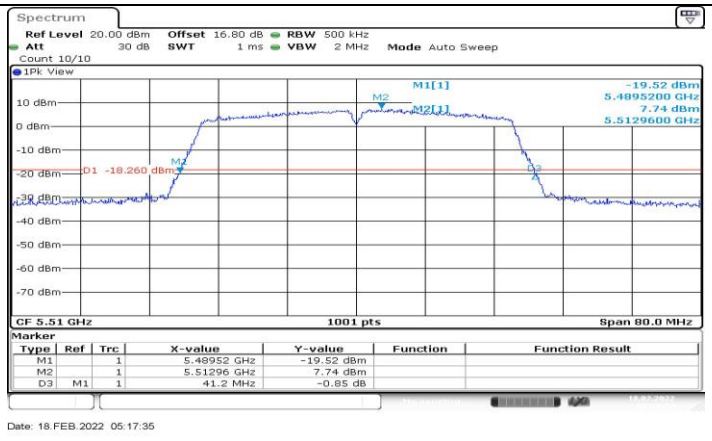

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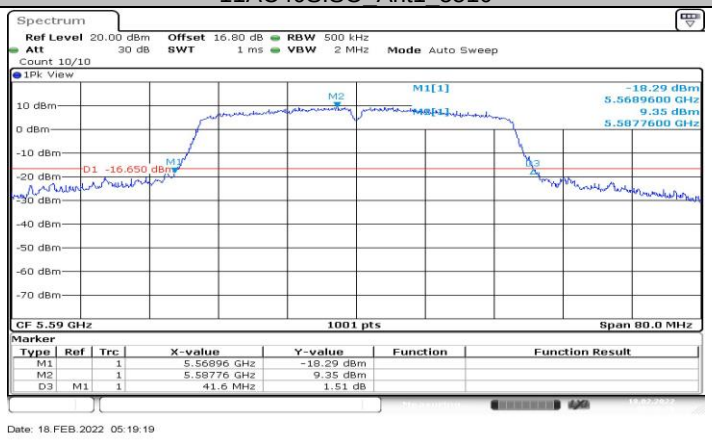

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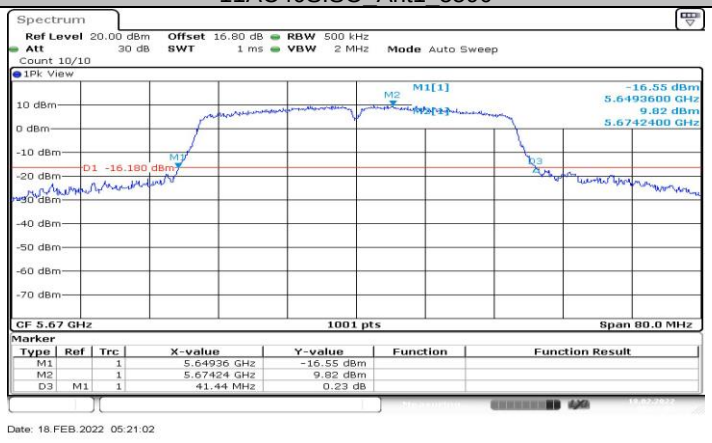

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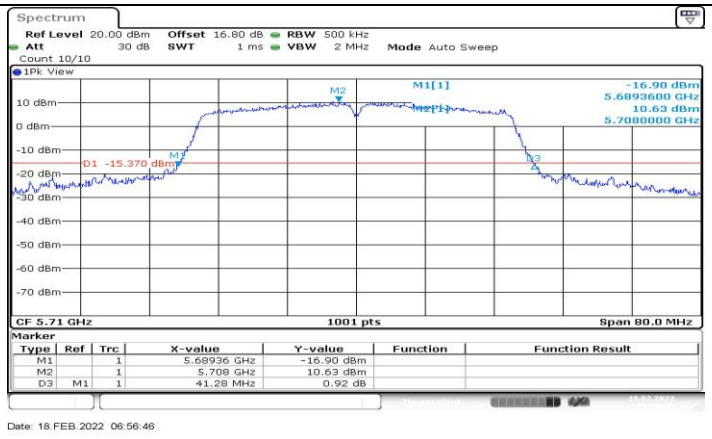
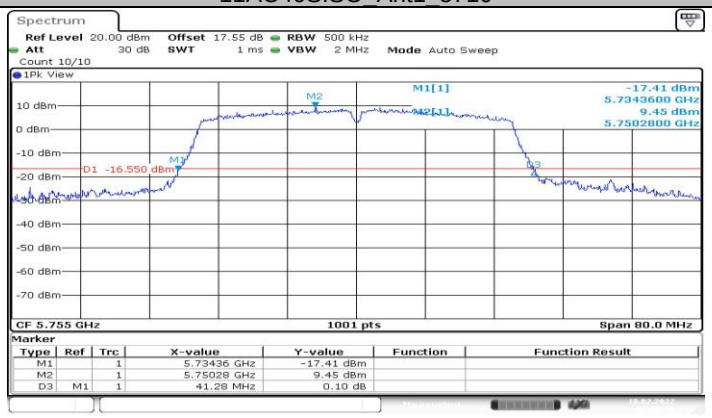


11AC40SISO_Ant1_5710



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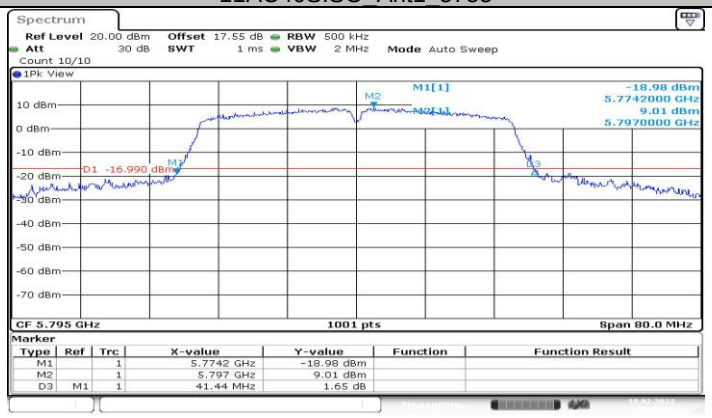
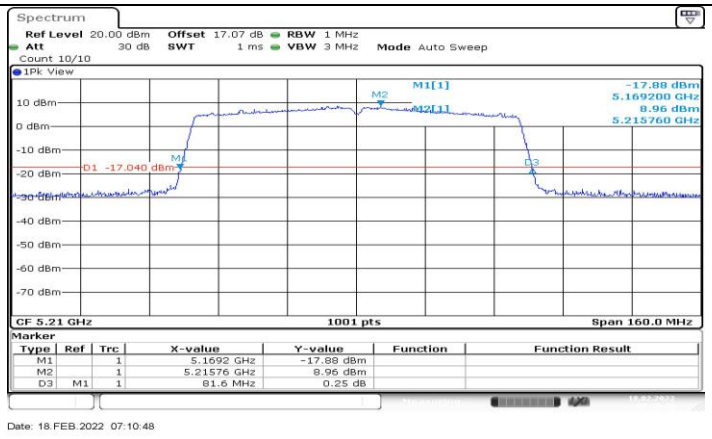
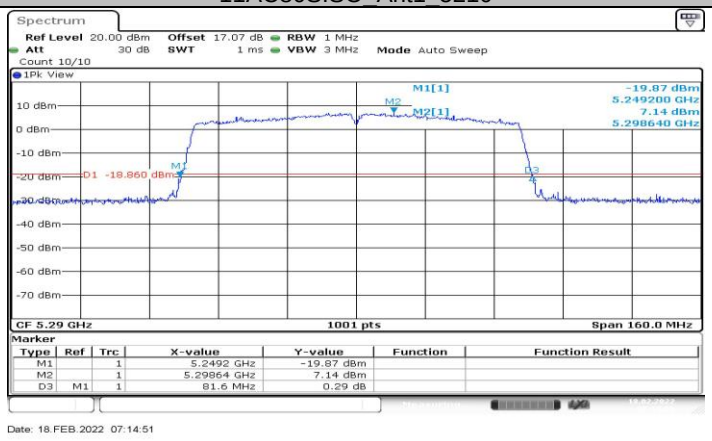


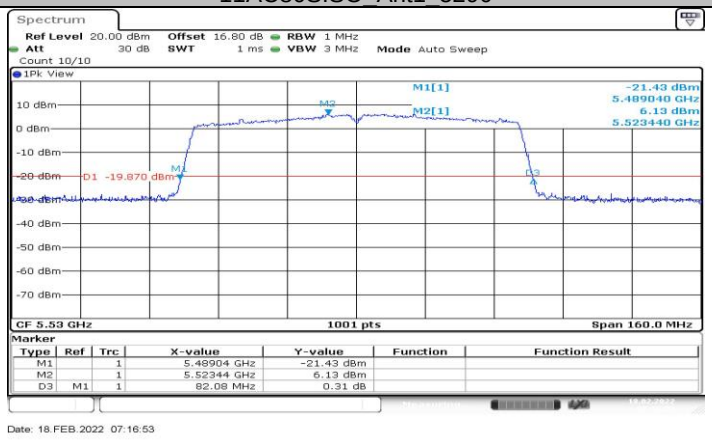
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5290



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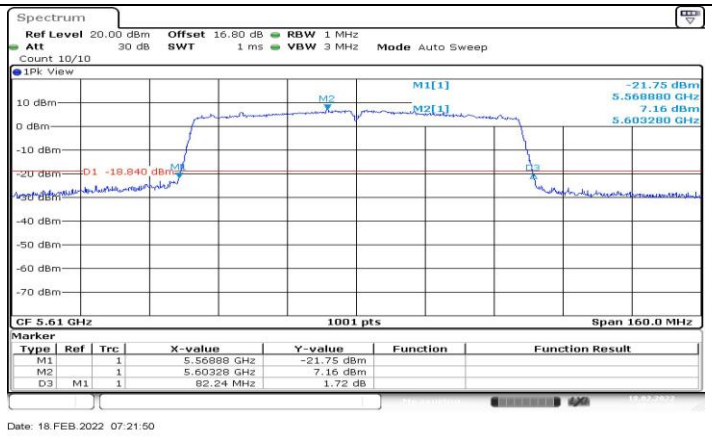

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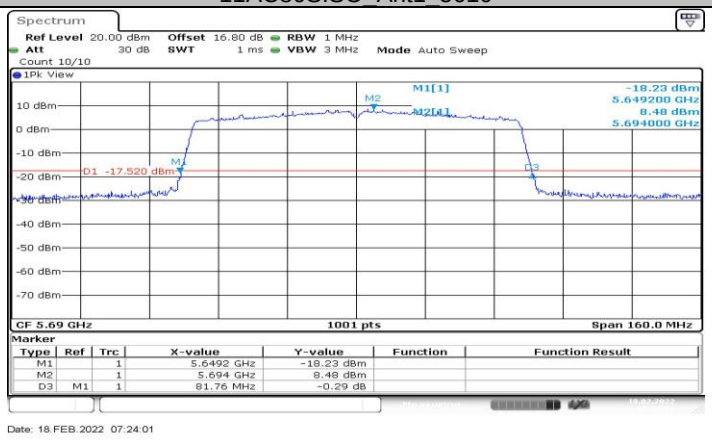
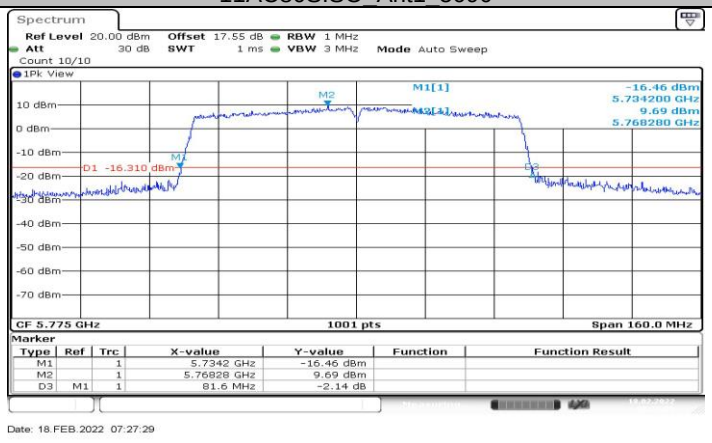


11AC80SISO_Ant1_5690



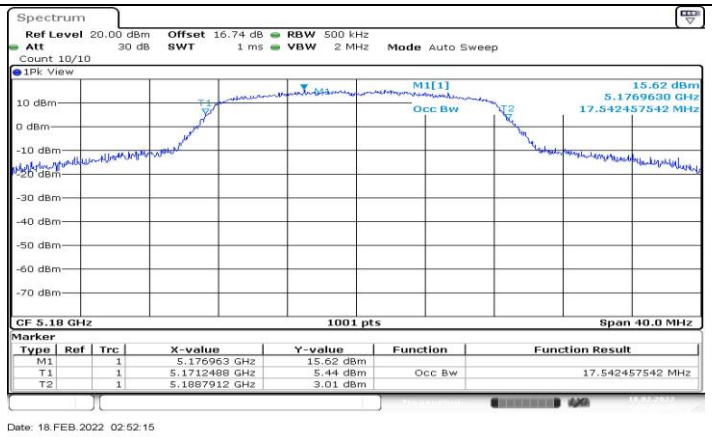
11AC80SISO_Ant1_5775

12.2. Appendix A2: Occupied channel bandwidth

12.2.1. Test Result

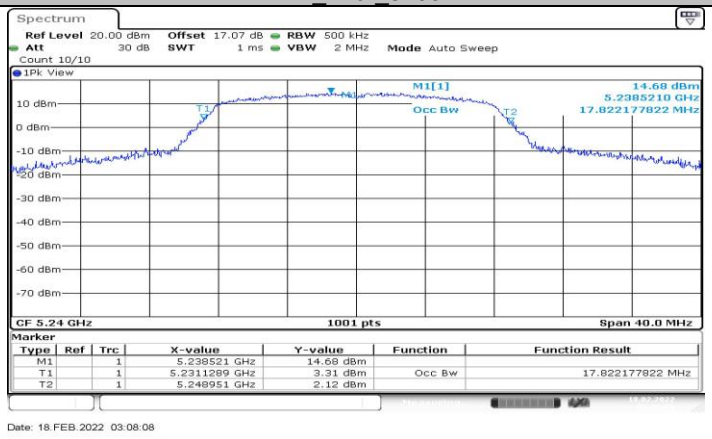
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5180	17.542	5171.249	5188.791	PASS
		5200	17.502	5191.209	5208.711	PASS
		5240	17.822	5231.129	5248.951	PASS
		5260	17.303	5251.329	5268.631	PASS
		5280	17.862	5271.089	5288.951	PASS
		5320	17.183	5311.369	5328.551	PASS
		5500	17.263	5491.369	5508.631	PASS
		5580	17.303	5571.289	5588.591	PASS
		5700	17.343	5691.289	5708.631	PASS
		5720	17.263	5711.329	5728.591	PASS
		5720_UNII-2C	13.671	5711.329	5725	PASS
		5720_UNII-3	3.591	5725	5728.591	PASS
		5745	17.582	5736.209	5753.791	PASS
		5785	17.822	5776.089	5793.911	PASS
		5825	17.662	5816.169	5833.831	PASS
11N20SISO	Ant1	5180	18.022	5170.969	5188.991	PASS
		5200	18.382	5190.809	5209.191	PASS
		5240	18.501	5230.769	5249.271	PASS
		5260	18.302	5250.849	5269.151	PASS
		5280	18.262	5270.889	5289.151	PASS
		5320	18.142	5310.889	5329.031	PASS
		5500	18.102	5490.969	5509.071	PASS
		5580	18.062	5570.929	5588.991	PASS
		5700	18.102	5690.929	5709.031	PASS
		5720	18.102	5710.929	5729.031	PASS
		5720_UNII-2C	14.071	5710.929	5725	PASS
		5720_UNII-3	4.031	5725	5729.031	PASS
		5745	18.422	5735.809	5754.231	PASS
		5785	18.501	5775.769	5794.271	PASS
		5825	18.462	5815.769	5834.231	PASS
11N40SISO	Ant1	5190	36.444	5171.778	5208.222	PASS
		5230	37.003	5211.538	5248.541	PASS
		5270	37.003	5251.618	5288.621	PASS
		5310	36.444	5291.778	5328.222	PASS
		5510	36.603	5491.778	5528.382	PASS
		5590	36.603	5571.618	5608.222	PASS
		5670	36.603	5651.698	5688.302	PASS
		5710	36.683	5691.618	5728.302	PASS
		5710_UNII-2C	33.382	5691.618	5725	PASS
		5710_UNII-3	3.302	5725	5728.302	PASS
		5755	37.243	5736.459	5773.701	PASS
		5795	36.683	5776.698	5813.382	PASS
11AC80SISO	Ant1	5210	75.445	5172.278	5247.722	PASS
		5290	75.445	5252.438	5327.882	PASS
		5530	75.445	5492.438	5567.882	PASS
		5610	75.764	5572.118	5647.882	PASS
		5690	75.285	5652.438	5727.722	PASS
		5690_UNII-2C	72.562	5652.438	5725	PASS
		5690_UNII-3	2.722	5725	5727.722	PASS
		5775	75.764	5737.118	5812.882	PASS

12.2.2. Test Graphs



11A_Ant1_5180

11A_Ant1_5200



11A_Ant1_5240