

Maximum Power Spectral Density_TNVN_11AC20_5240_Ant1



Maximum Power Spectral Density_TNVN_11AC20_5745_Ant1





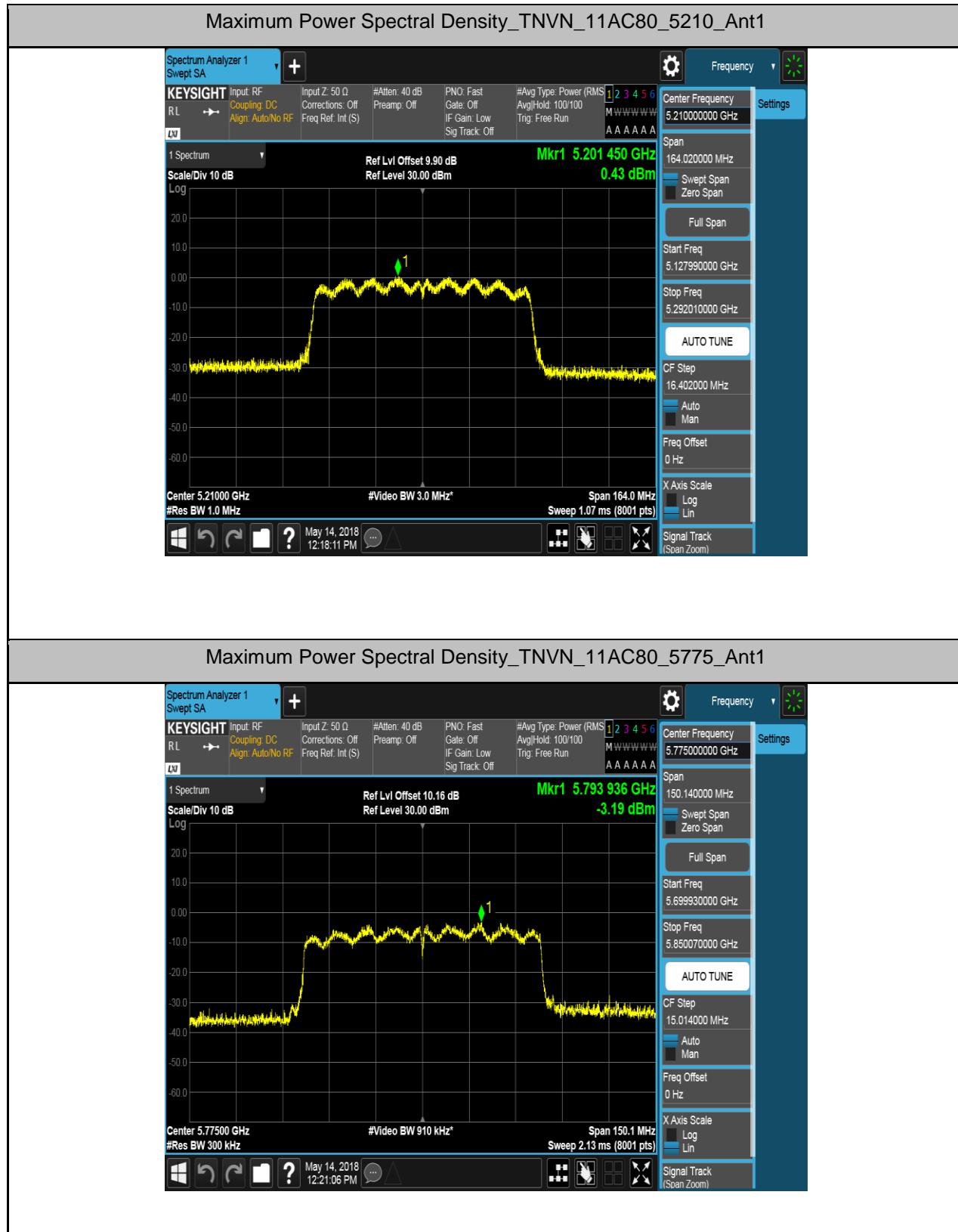


Maximum Power Spectral Density_TNVN_11AC40_5755_Ant1



Maximum Power Spectral Density_TNVN_11AC40_5795_Ant1





7. RADIATED TEST RESULTS

7.1. LIMITS

Please refer to FCC §15.205, §15.209 and §15.407(b) (4)

Radiation Disturbance Test Limit for FCC (Class B)(9KHz-1GHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1GHz)		
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit
		(dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54
Above 1000	500	Peak
		Average
		74
		54

Limits of unwanted emission out of the restricted bands

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1GHz)		
Frequency Range (MHz)	EIRP Limit	Field Strength Limit (dBuV/m) at 3 m
5150~5250 MHz	PK:-27 (dBm/MHz)	PK:68.2(dB μ V/m)
5725~5850 MHz	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dB μ V/m) *1 PK:105.2 (dB μ V/m) *2 PK: 110.8(dB μ V/m) *3 PK:122.2 (dB μ V/m) *4

Note:

*1 beyond 75 MHz or more above of the band edge.

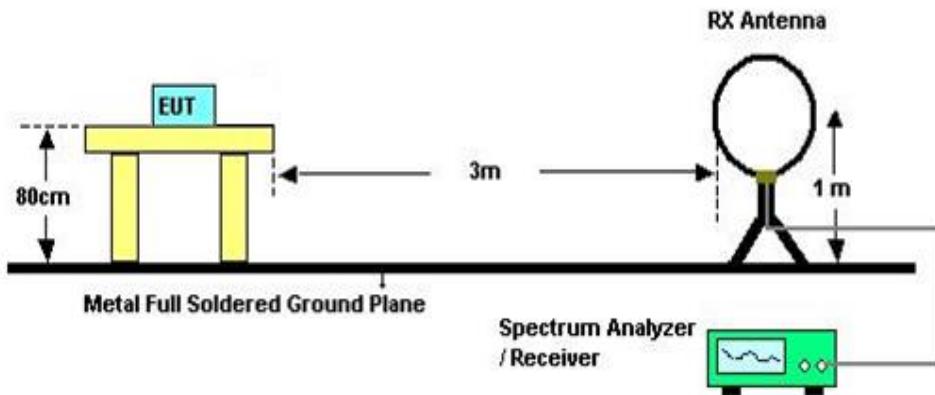
*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

7.2. TEST SETUP AND PROCEDURE

Below 30MHz

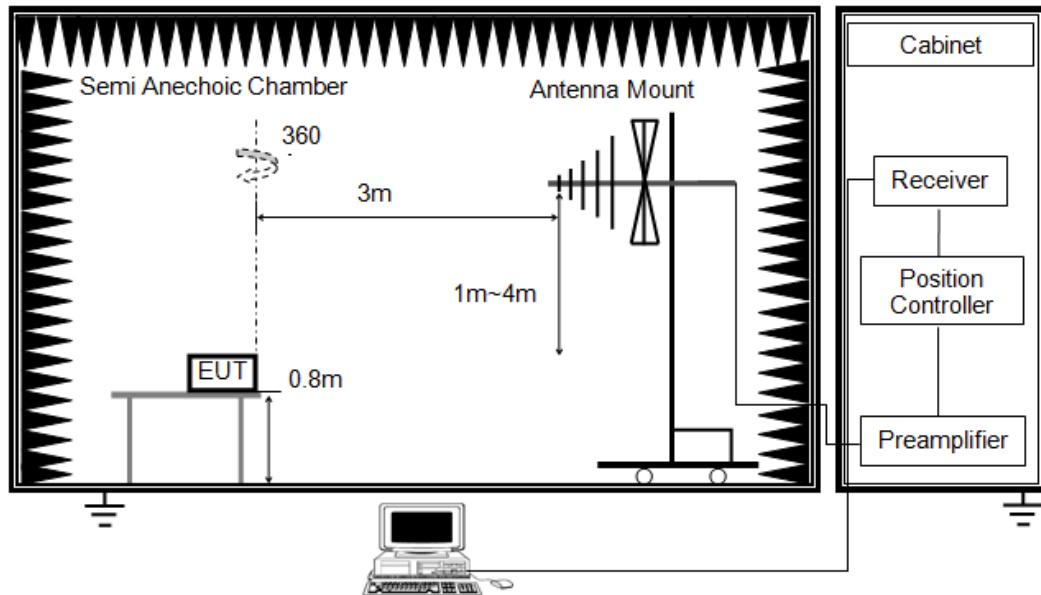


The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/ Average
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 0.8 meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
6. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

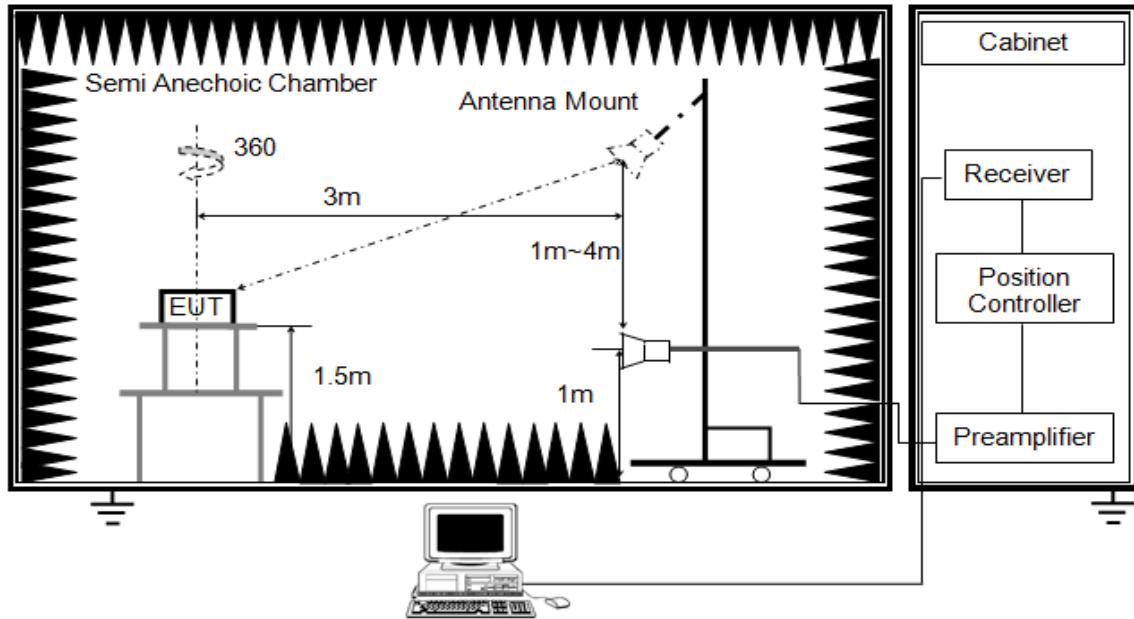
Below 1G



The setting of the spectrum analyser

RBW	120K
VBW	300K
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 0.8 meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
6. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

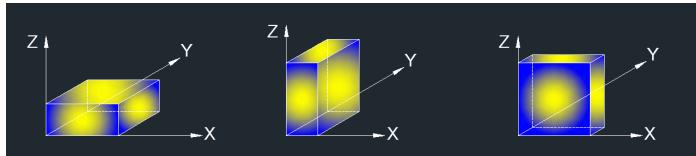


The setting of the spectrum analyser

RBW	1M
VBW	PEAK: 3M AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.
7. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

X axis, Y axis, Z axis positions:



Note: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

7.3. RESTRICTED BANDEDGE

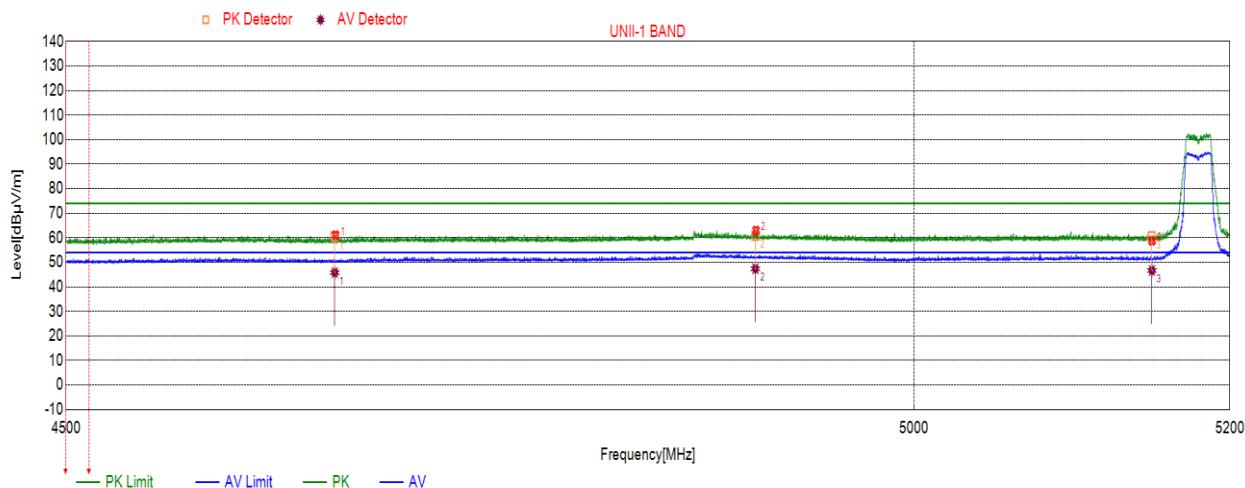
7.3.1. UNII-I BAND

Test Result Table

Test Mode	Channel	Puw(dBm)	Verdict
11A	5180	<Limit	PASS
	5240	<Limit	PASS
11N20	5180	<Limit	PASS
	5240	<Limit	PASS
11N40	5190	<Limit	PASS
	5230	<Limit	PASS
11AC20	5180	<Limit	PASS
	5240	<Limit	PASS
11AC40	5190	<Limit	PASS
	5230	<Limit	PASS
11AC80	5210	<Limit	PASS

Test Graphs:

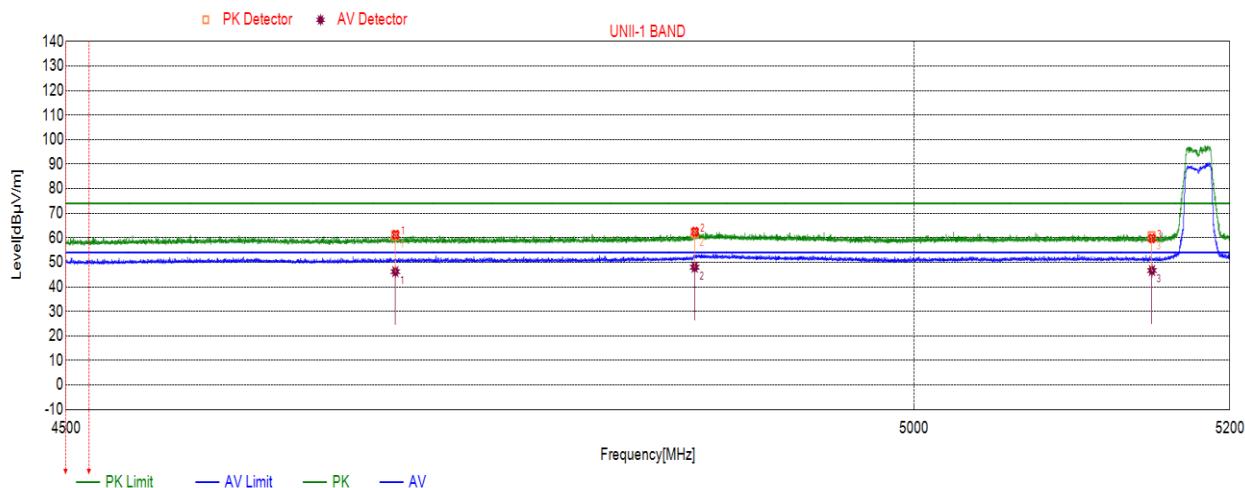
Test Mode	Channel	Polarization	Verdict
11A	5180	Horizontal	PASS



No.	Frequency (MHz)	Result (dBuV/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	4652.8204	60.31	74.00	-	-13.69	peak
		45.82	54.00	-	-8.18	average
2	4902.4296	60.80	74.00	-	-13.20	peak
		47.39	54.00	-	-6.61	average
3	5150.0000	60.42	74.00	-	-13.58	peak
		46.70	54.00	-	-7.30	average

- Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

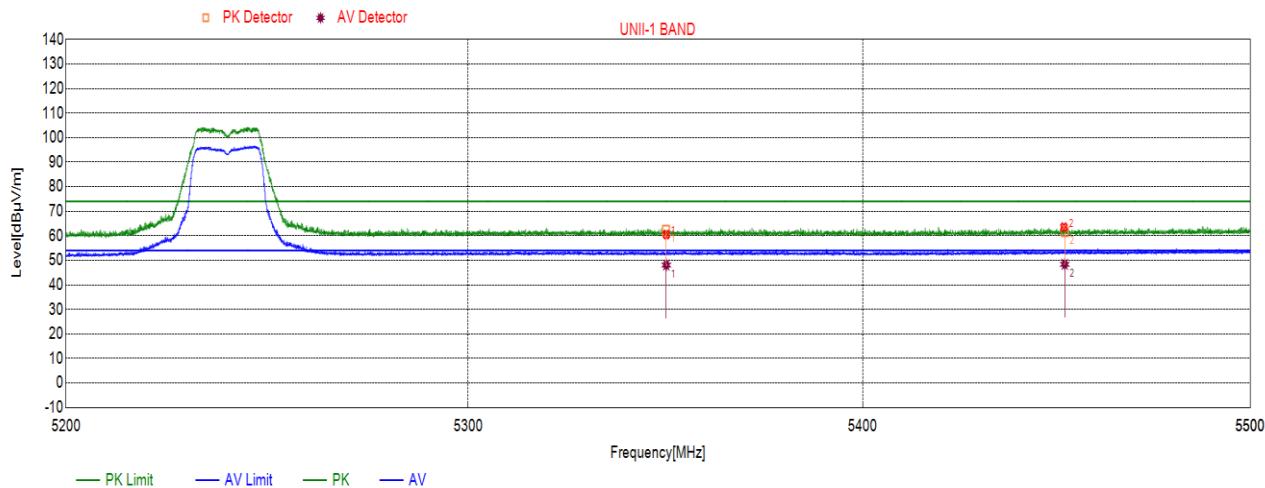
Test Mode	Channel	Polarization	Verdict
11A	5180	Vertical	PASS



No.	Frequency (MHz)	Result (dB _B V/m)	Limit (dB _B V/m)	Margin (dB)	Remark
1	4687.9791	60.94	74.00	-13.06	peak
		46.22	54.00	-7.78	average
2	4865.5874	61.75	74.00	-12.25	peak
		47.99	54.00	-6.01	average
3	5150.0000	60.30	74.00	-13.70	peak
		46.66	54.00	-7.34	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11A	5240	Horizontal	PASS

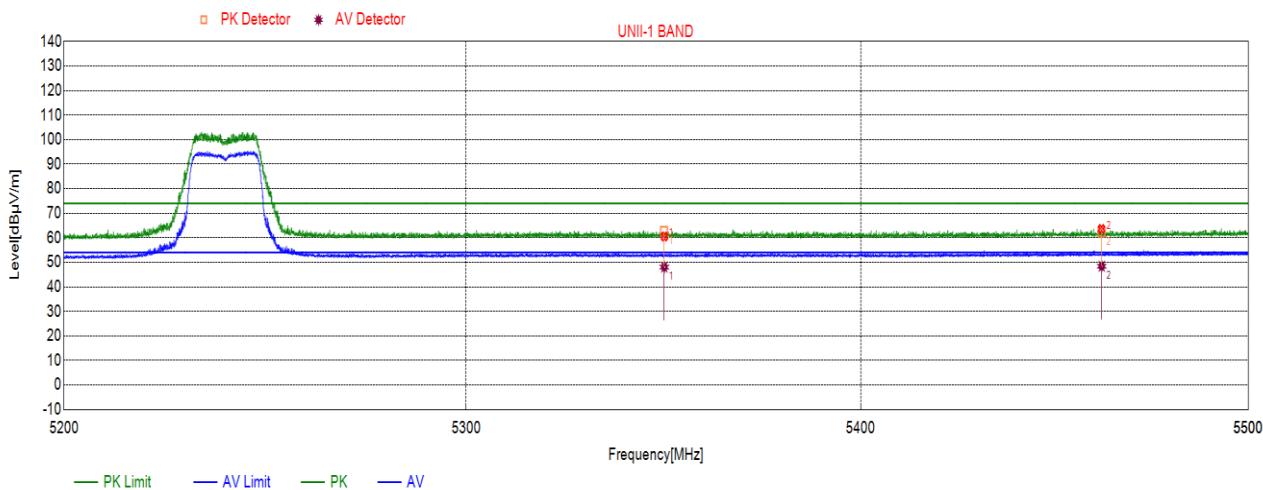


No.	Frequency	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.0000	62.26	74.00	-11.74	peak
		48.06	54.00	-5.94	average
2	5451.9307	61.66	74.00	-12.34	peak
		48.38	54.00	-5.62	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

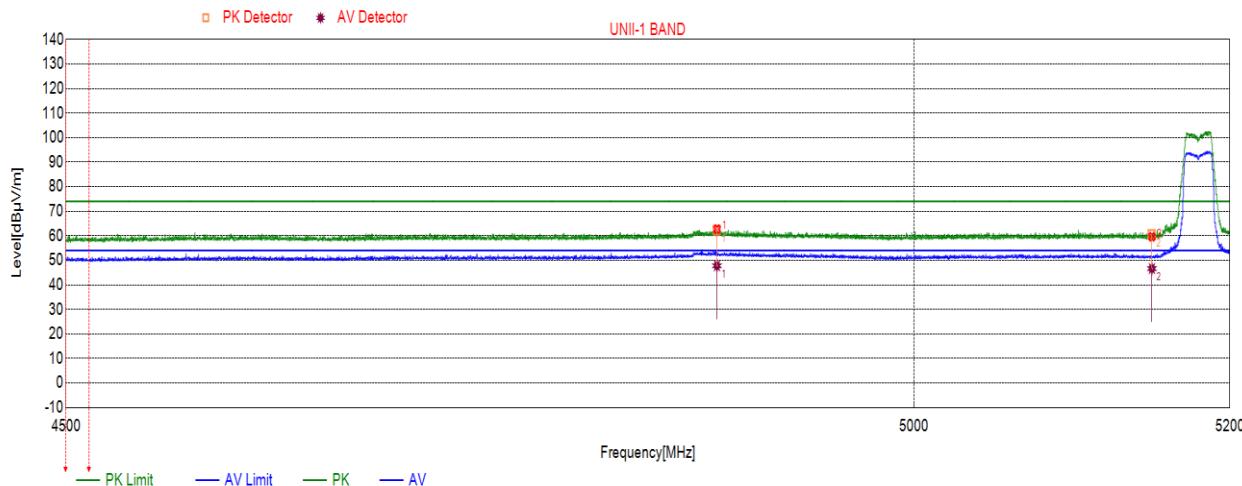
Test Mode	Channel	Polarization	Verdict
11A	5240	Vertical	PASS



No.	Frequency (MHz)	Result (dB μ V/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	5350.0000	62.55	74.00	-	-11.45	peak
		48.05	54.00	-	-5.95	average
2	5462.0083	62.11	74.00	-	-11.89	peak
		48.40	54.00	-	-5.60	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11N20	5180	Horizontal	PASS

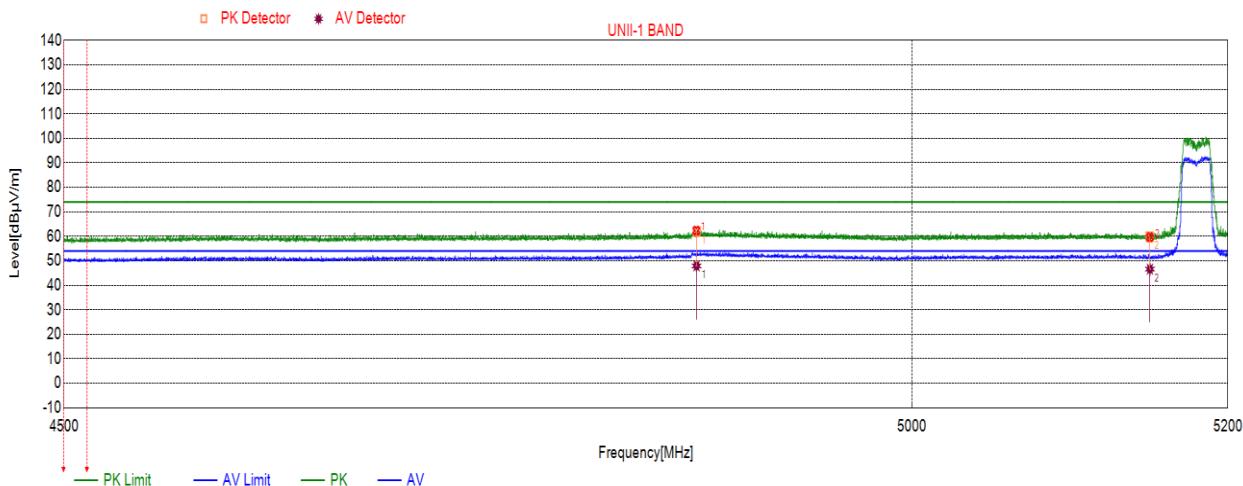


No.	Frequency	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	4879.0725	62.33	74.00	-11.67	peak
		47.78	54.00	-6.22	average
2	5150.0000	60.57	74.00	-13.43	peak
		46.64	54.00	-7.36	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

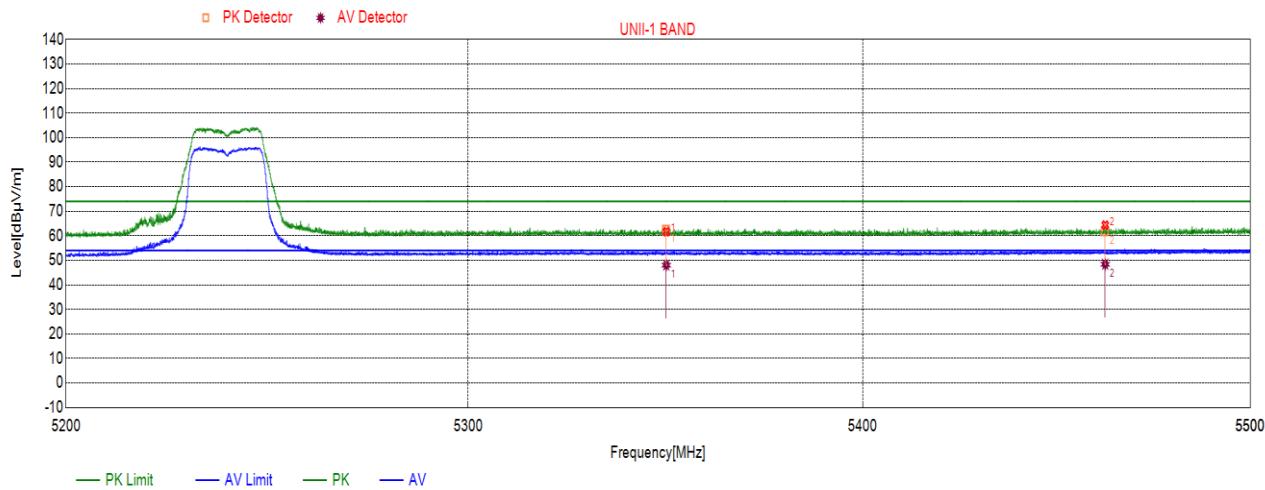
Test Mode	Channel	Polarization	Verdict
11N20	5180	Vertical	PASS



No.	Frequency (MHz)	Result (dB μ V/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	4867.9239	62.08	74.00	-11.92	-	peak
		47.92	54.00	-6.08	-	average
2	5150.0000	59.74	74.00	-14.26	-	peak
		46.61	54.00	-7.39	-	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11N20	5240	Horizontal	PASS

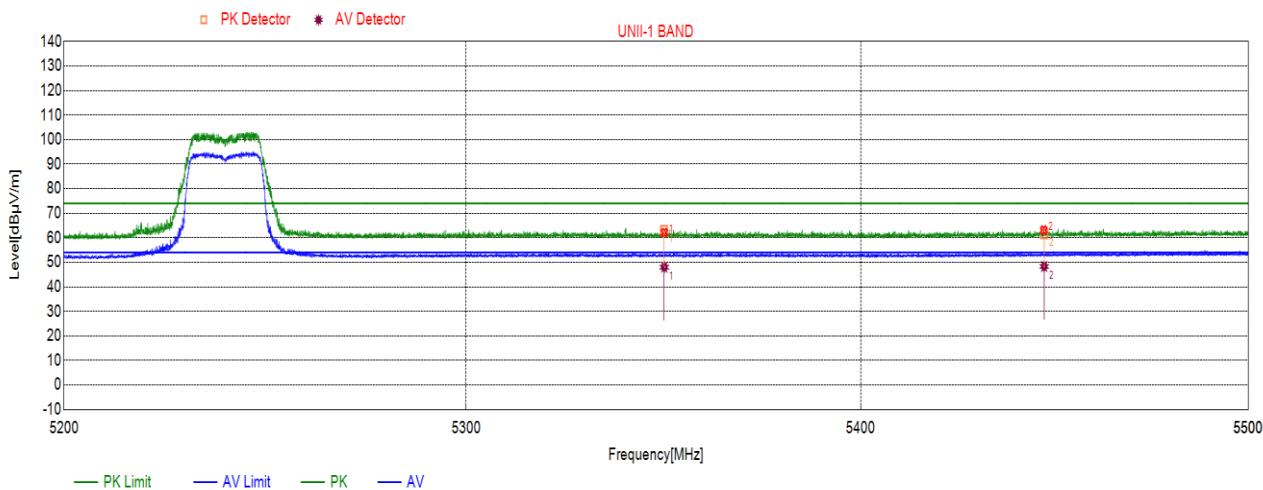


No.	Frequency (MHz)	Result (dBuV/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	5350.0000	62.38	74.00	54.00	-11.62	peak
		48.04	54.00	54.00	-5.96	average
2	5462.3961	61.77	74.00	54.00	-12.23	peak
		48.40	54.00	54.00	-5.60	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

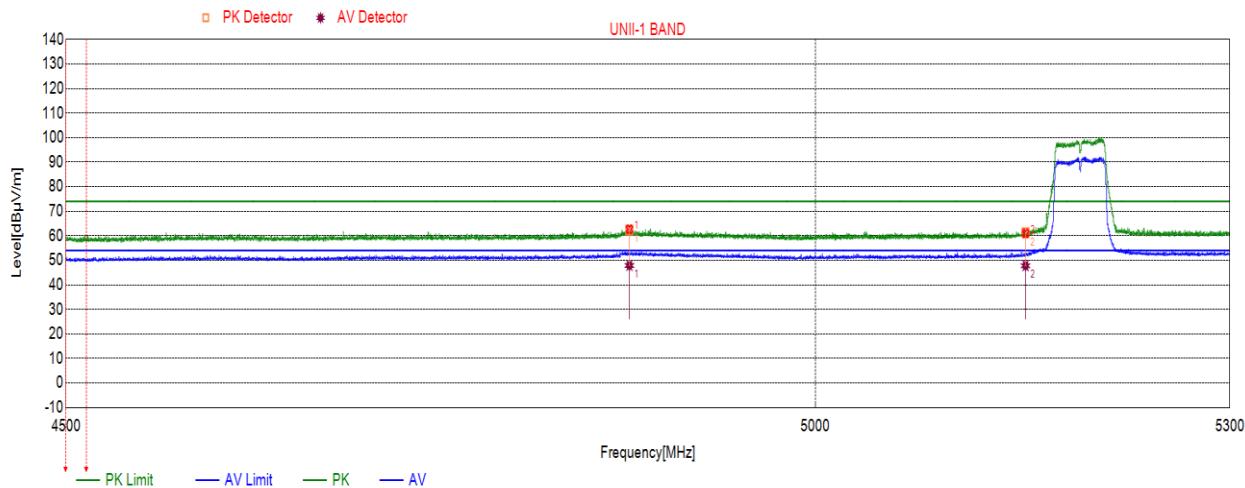
Test Mode	Channel	Polarization	Verdict
11N20	5240	Vertical	PASS



No.	Frequency (MHz)	Result (dB _u V/m)	Limit		Margin (dB)	Remark
			PK Limit	AV Limit		
1	5350.0000	63.01	74.00	74.00	-10.99	peak
		48.03	54.00	54.00	-5.97	average
2	5447.1417	61.65	74.00	74.00	-12.35	peak
		48.31	54.00	54.00	-5.69	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11N40	5190	Horizontal	PASS

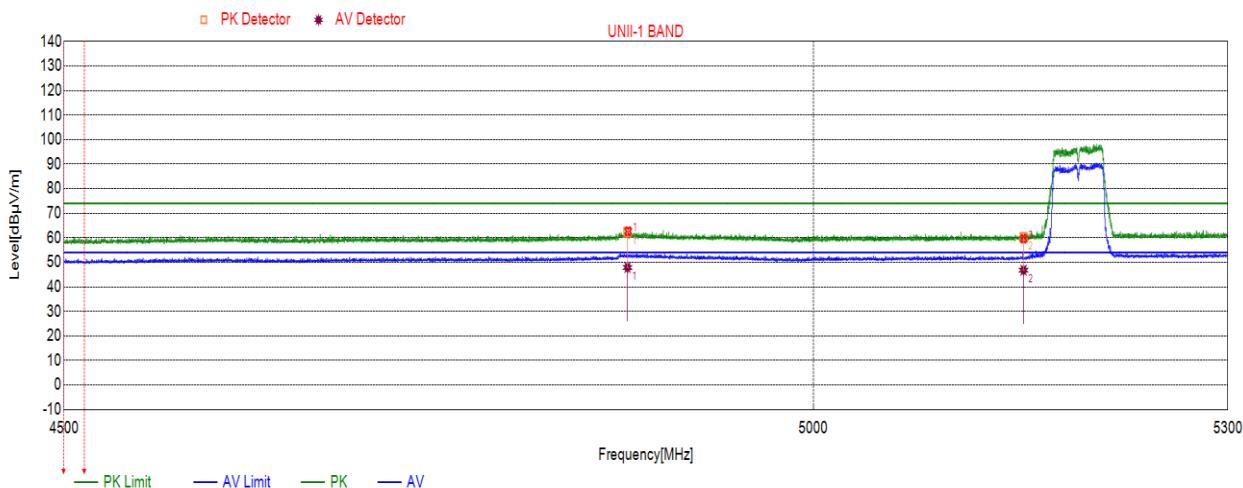


No.	Frequency	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	4871.0130	62.33	74.00	-11.67	peak
		47.90	54.00	-6.10	average
2	5150.0000	61.10	74.00	-12.90	peak
		47.78	54.00	-6.22	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

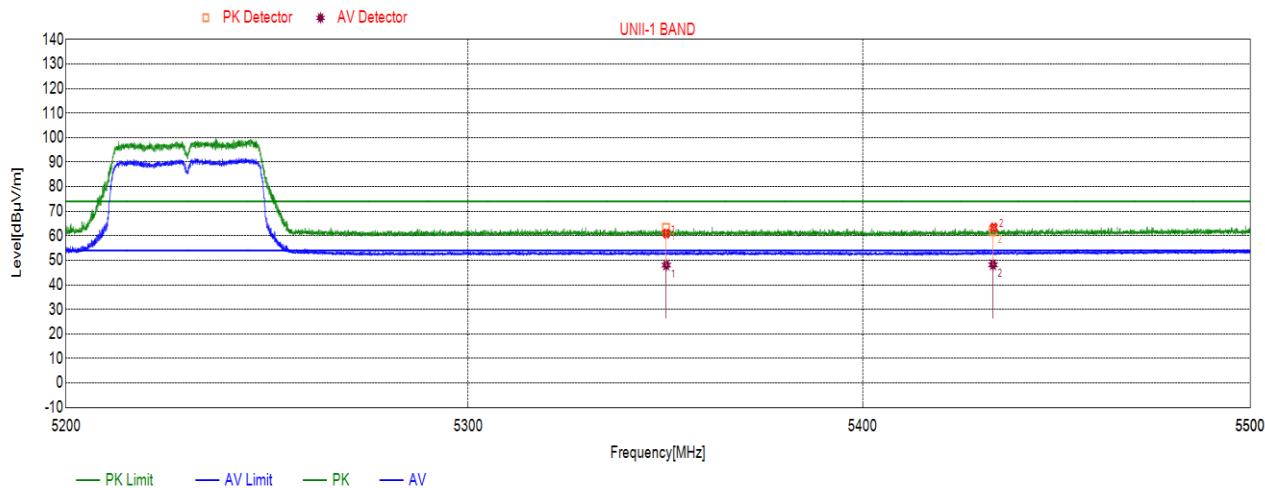
Test Mode	Channel	Polarization	Verdict
11N40	5190	Vertical	PASS



No.	Frequency (MHz)	Result (dB _B V/m)	Limit (dB _B V/m)	Margin (dB)	Remark
1	4871.0854	62.43	74.00	-11.57	peak
		47.90	54.00	-6.10	average
2	5150.0000	60.16	74.00	-13.84	peak
		46.81	54.00	-7.19	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11N40	5230	Vertical	PASS

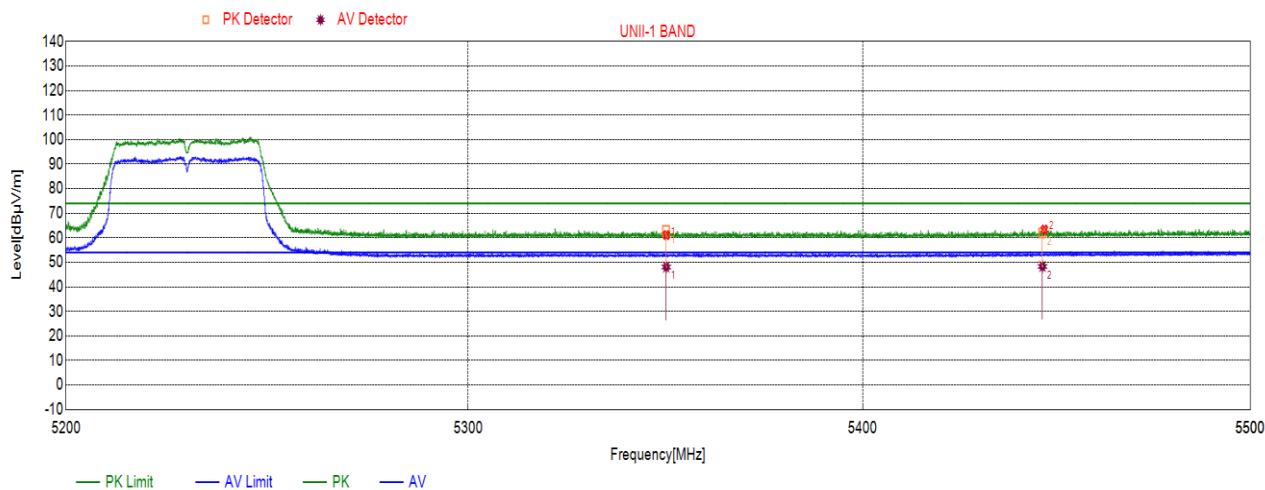


No.	Frequency (MHz)	Result (dBuV/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	5350.0000	62.94	74.00	-	-11.06	peak
		48.05	54.00	-	-5.95	average
2	5433.4478	62.02	74.00	-	-11.98	peak
		48.18	54.00	-	-5.82	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

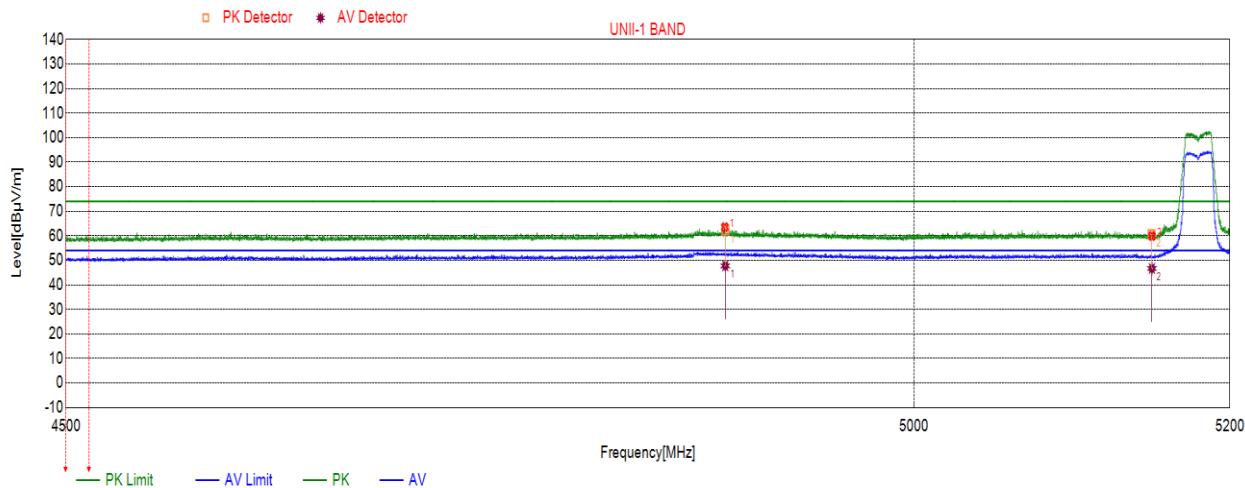
Test Mode	Channel	Polarization	Verdict
11N40	5230	Horizontal	PASS



No.	Frequency (MHz)	Result (dB μ V/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	5350.0000	62.87	74.00	-	-11.13	peak
		48.08	54.00	-	-5.92	average
2	5446.1984	62.06	74.00	-	-11.94	peak
		48.32	54.00	-	-5.68	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11AC20	5180	Horizontal	PASS

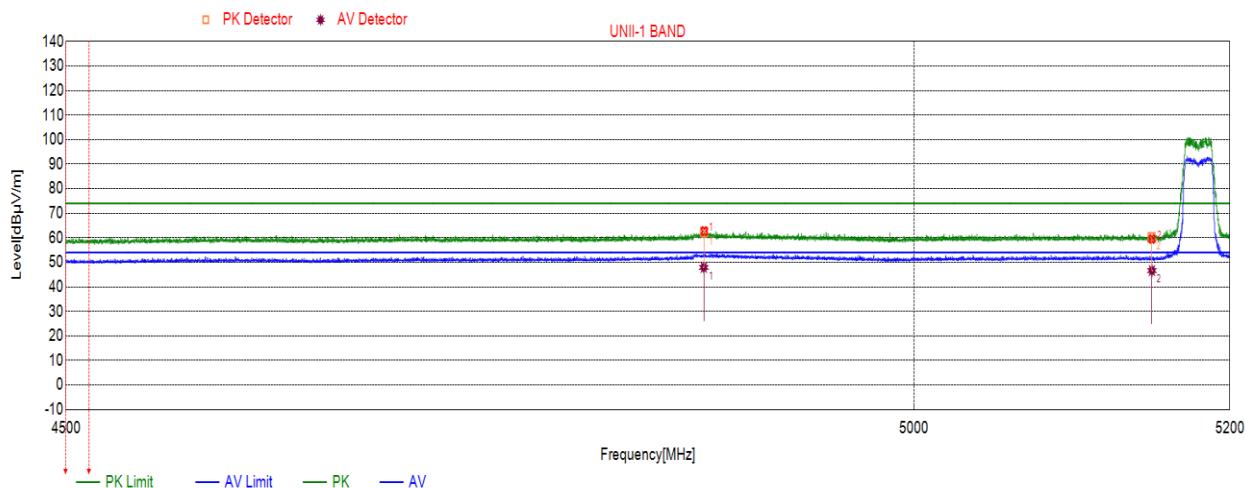


No.	Frequency	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	4884.1248	62.16	74.00	-11.84	peak
		47.74	54.00	-6.26	average
2	5150.0000	60.49	74.00	-13.51	peak
		46.69	54.00	-7.31	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

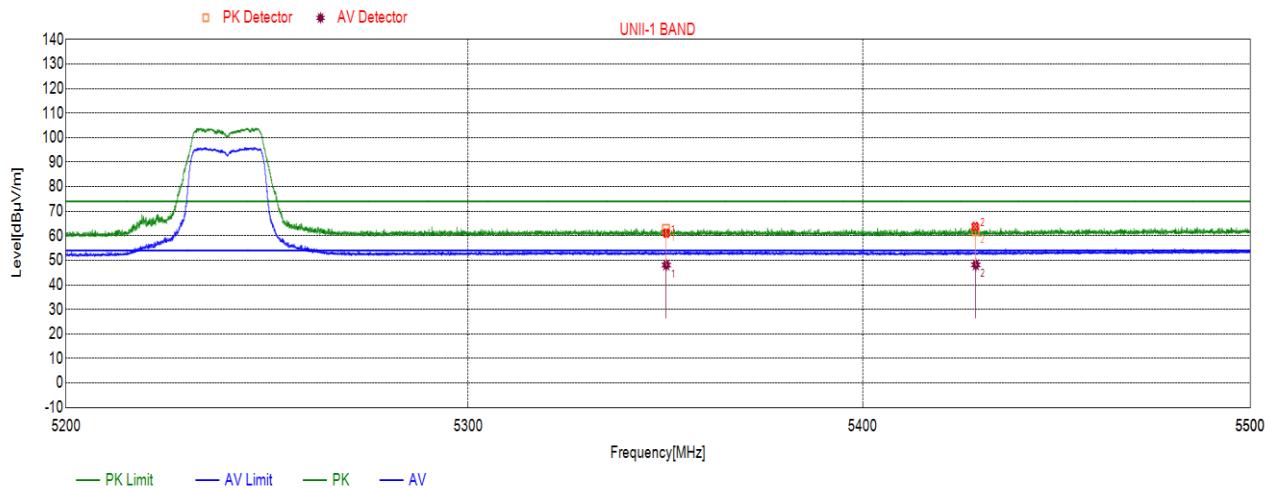
Test Mode	Channel	Polarization	Verdict
11AC 20	5180	Vertical	PASS



No.	Frequency (MHz)	Result (dB μ V/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	4871.0996	62.16	74.00	-11.84	-	peak
		47.92	54.00	-6.08	-	average
2	5150.0000	60.19	74.00	-13.81	-	peak
		46.65	54.00	-7.35	-	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11AC 20	5240	Horizontal	PASS

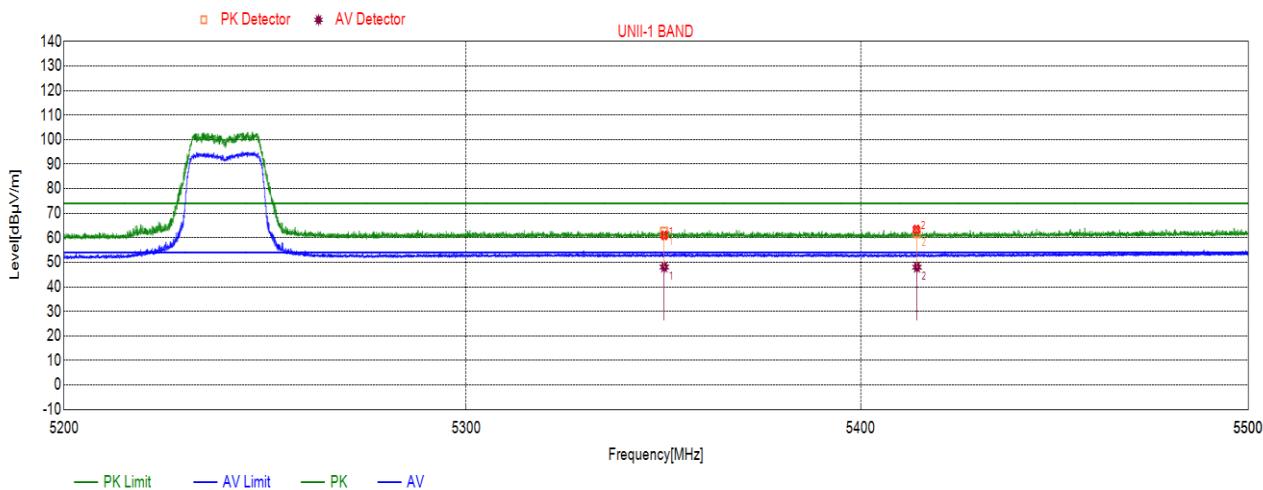


No.	Frequency (MHz)	Result (dBuV/m)	Limit	Margin	Remark
			(dBuV/m)	(dB)	
1	5350.0000	62.66	74.00	-11.34	peak
		48.07	54.00	-5.93	average
2	5429.0163	61.94	74.00	-12.06	peak
		48.15	54.00	-5.85	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

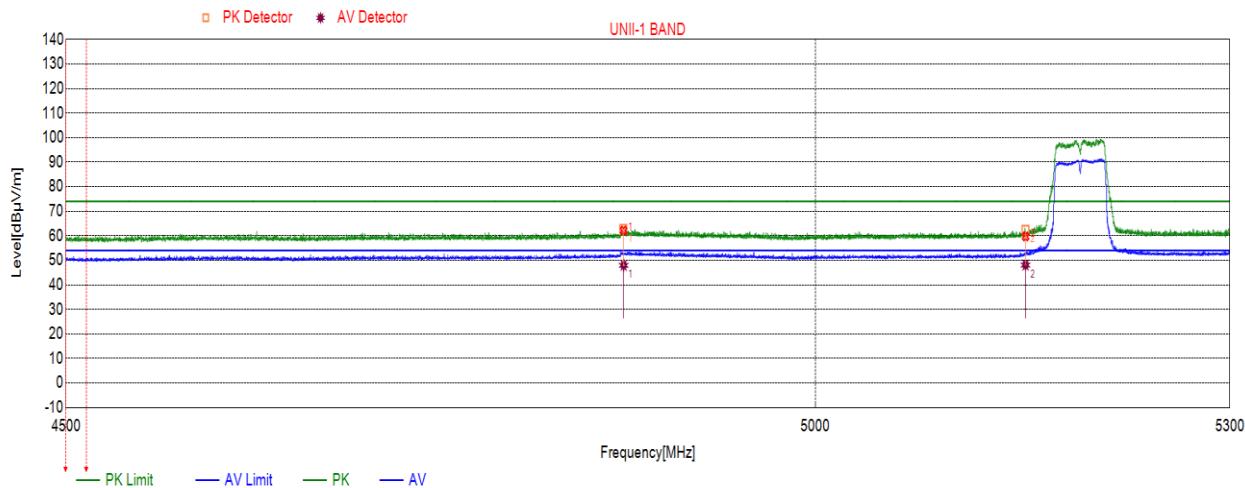
Test Mode	Channel	Polarization	Verdict
11AC 20	5240	Vertical	PASS



No.	Frequency (MHz)	Result (dB μ V/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	5350.0000	62.12	74.00	54.00	-11.88	peak
		48.07	54.00	54.00	-5.93	average
2	5414.4232	61.79	74.00	54.00	-12.21	peak
		48.01	54.00	54.00	-5.99	average

Note: 1. If Peak Result complies with AV Limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11AC 40	5190	Horizontal	PASS

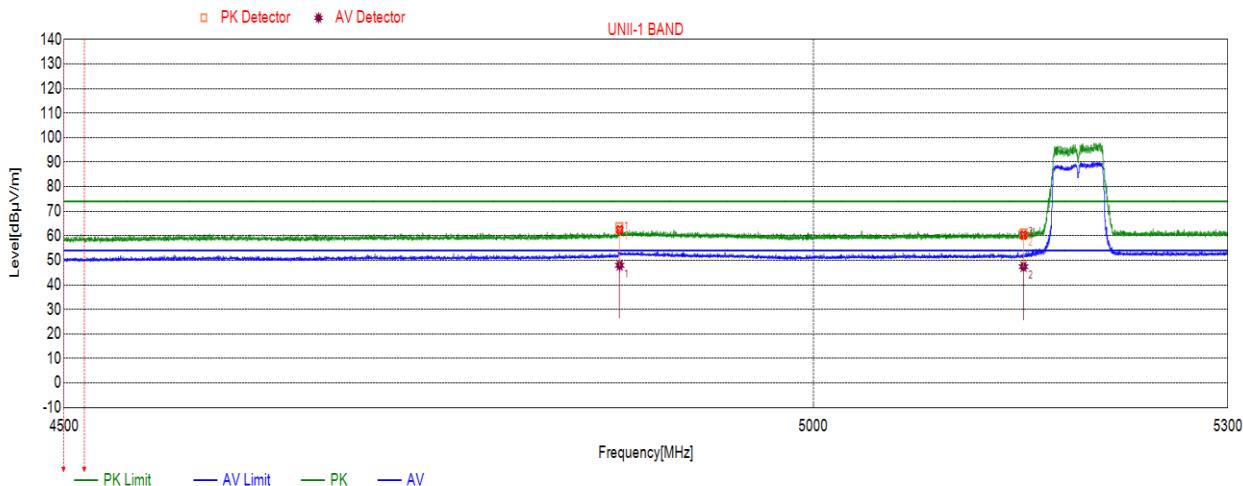


No.	Frequency	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	4867.0879	62.54	74.00	-11.46	peak
		47.96	54.00	-6.04	average
2	5150.0000	62.29	74.00	-11.71	peak
		48.07	54.00	-5.93	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

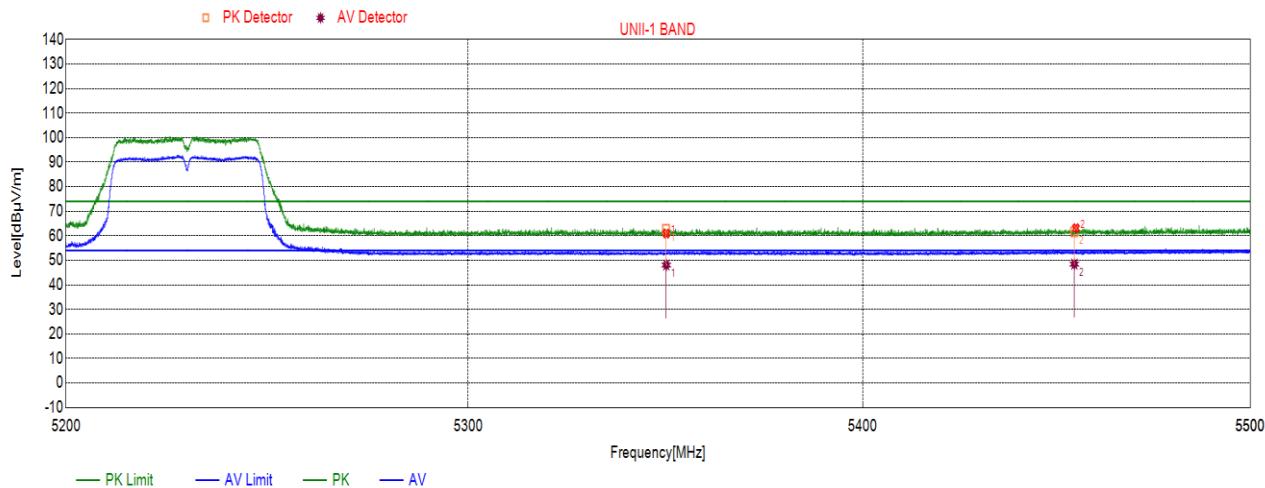
Test Mode	Channel	Polarization	Verdict
11AC 40	5190	Vertical	PASS



No.	Frequency (MHz)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
1	4865.7137	63.20	74.00	-10.80	peak
		47.99	54.00	-6.01	average
2	5150.0000	60.78	74.00	-13.22	peak
		47.43	54.00	-6.57	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11AC 40	5230	Horizontal	PASS

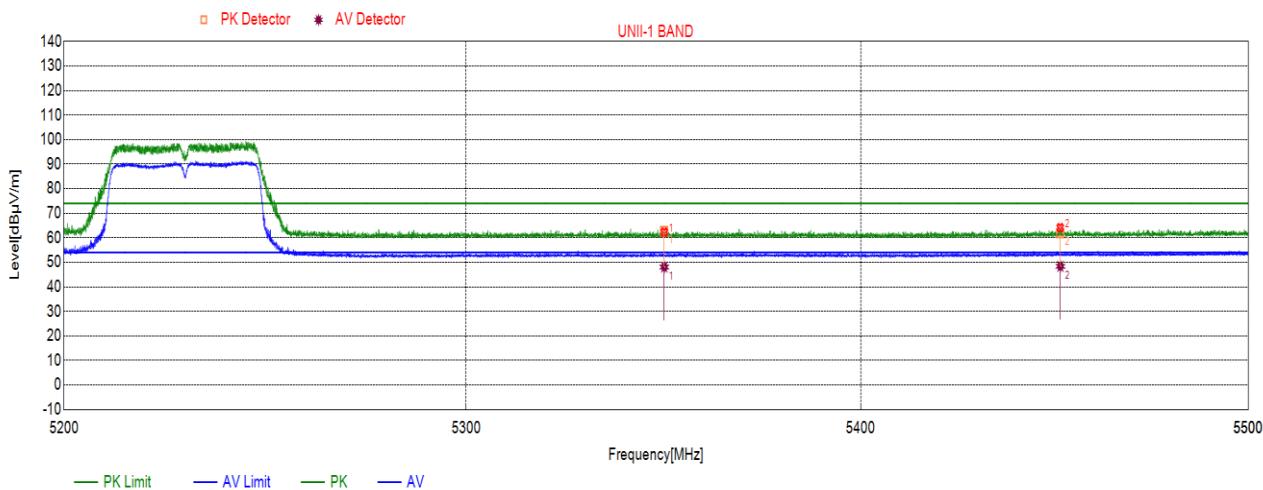


No.	Frequency (MHz)	Result (dBuV/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	5350.0000	62.74	74.00	-11.26	-	peak
		48.08	54.00	-5.92	-	average
2	5454.4146	61.63	74.00	-12.37	-	peak
		48.45	54.00	-5.55	-	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

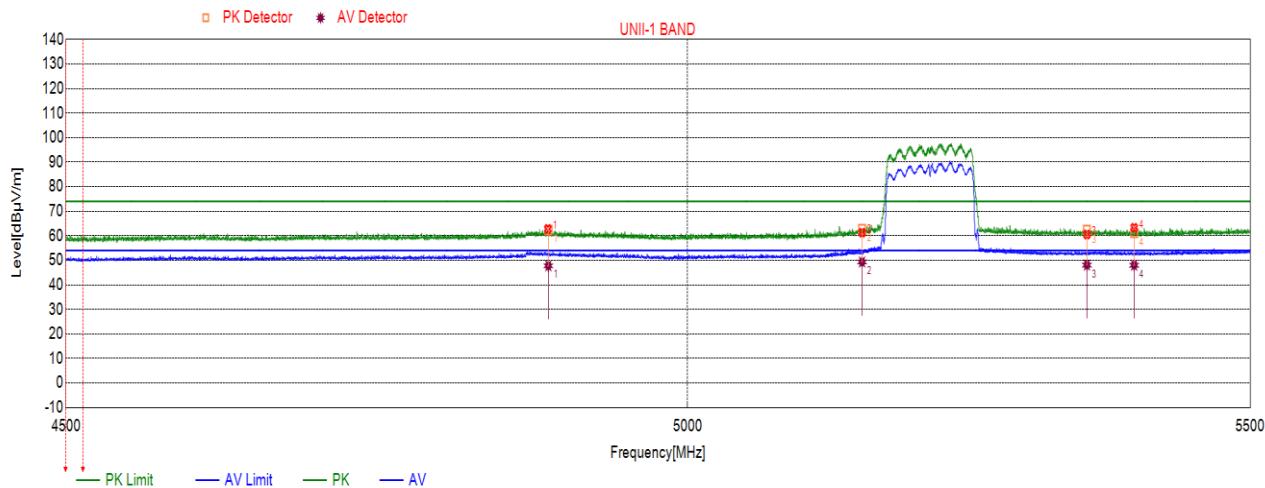
Test Mode	Channel	Polarization	Verdict
11AC 40	5230	Vertical	PASS



No.	Frequency (MHz)	Result (dB _u V/m)	Limit (dB _u V/m)	Margin (dB)	Remark
1	5350.0000	62.57	74.00	-11.43	peak
		48.07	54.00	-5.93	average
2	5451.3388	61.86	74.00	-12.14	peak
		48.39	54.00	-5.61	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

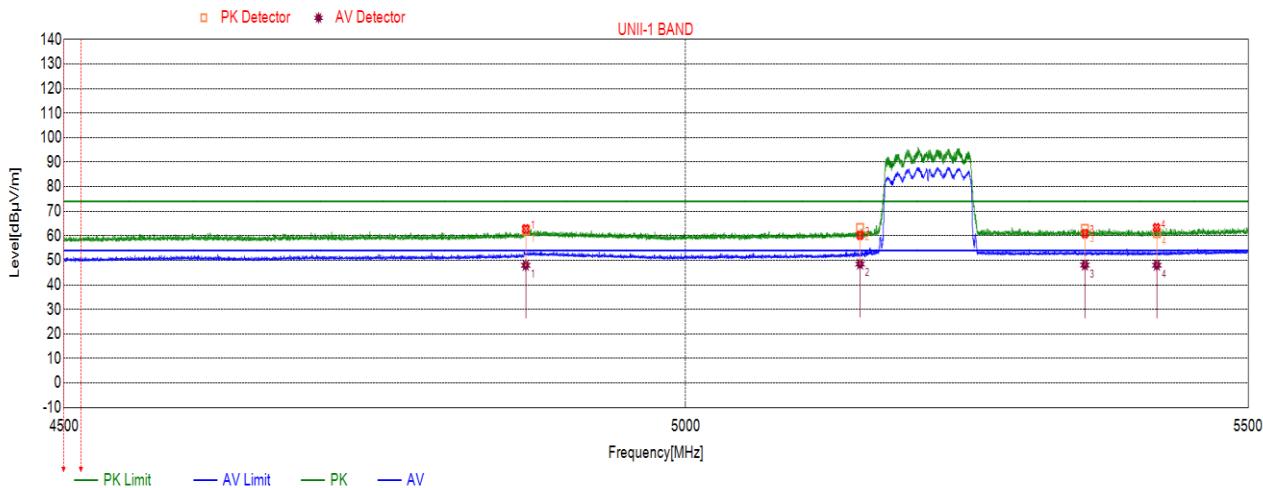
Test Mode	Channel	Polarization	Verdict
11AC 80	5210	Horizontal	PASS



No.	Frequency (MHz)	Result (dBuV/m)	Limit	Margin	Remark
			(dBuV/m)	(dB)	
1	4883.3435	62.26	74.00	-11.74	peak
		47.76	54.00	-6.24	average
2	5150.0000	62.82	74.00	-11.18	peak
		49.34	54.00	-4.66	average
3	5350.0000	62.15	74.00	-11.85	peak
		48.07	54.00	-5.93	average
4	5393.0256	61.11	74.00	-12.89	peak
		48.01	54.00	-5.99	average

- Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11AC 80	5210	Vertical	PASS



No.	Frequency (MHz)	Result (dBuV/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	4866.2816	62.30	74.00	-11.70	-	peak
		47.97	54.00	-6.03	-	average
2	5150.0000	63.03	74.00	-10.97	-	peak
		48.48	54.00	-5.52	-	average
3	5350.0000	62.55	74.00	-11.45	-	peak
		48.07	54.00	-5.93	-	average
4	5415.6359	61.34	74.00	-12.66	-	peak
		48.01	54.00	-5.99	-	average

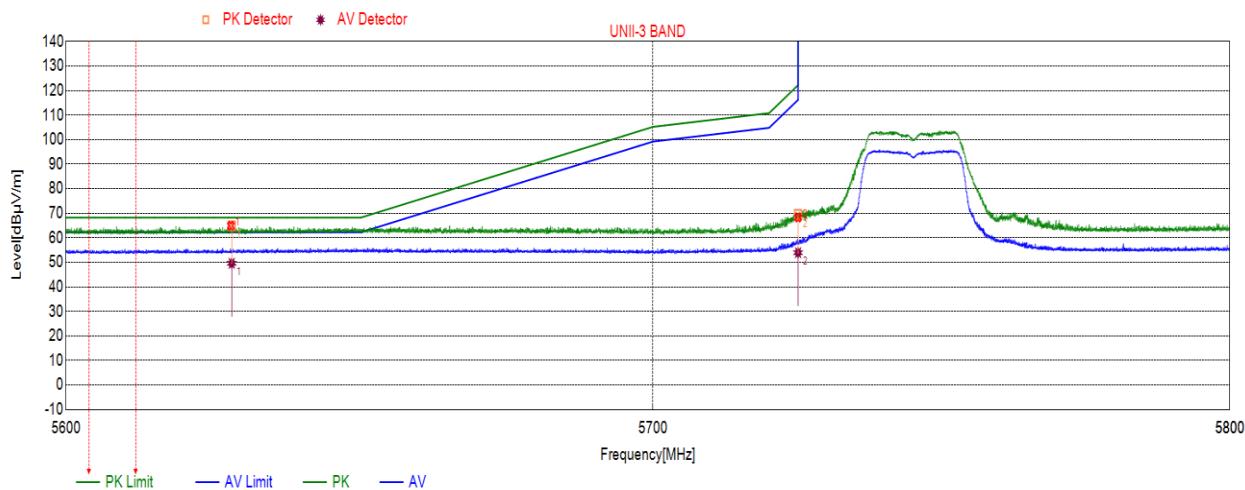
Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

7.3.2. UNII-III BAND

Test Mode	Channel	Puw(dBm)	Verdict
11A	5745	<Limit	PASS
	5785	<Limit	PASS
	5825	<Limit	PASS
11N20	5745	<Limit	PASS
	5785	<Limit	PASS
	5825	<Limit	PASS
11N40	5755	<Limit	PASS
	5795	<Limit	PASS
11AC20	5745	<Limit	PASS
	5785	<Limit	PASS
	5825	<Limit	PASS
11AC40	5755	<Limit	PASS
	5795	<Limit	PASS
11AC80	5775	<Limit	PASS

Test Graphs:

Test Mode	Channel	Polarization	Verdict
11A	5745	Horizontal	PASS

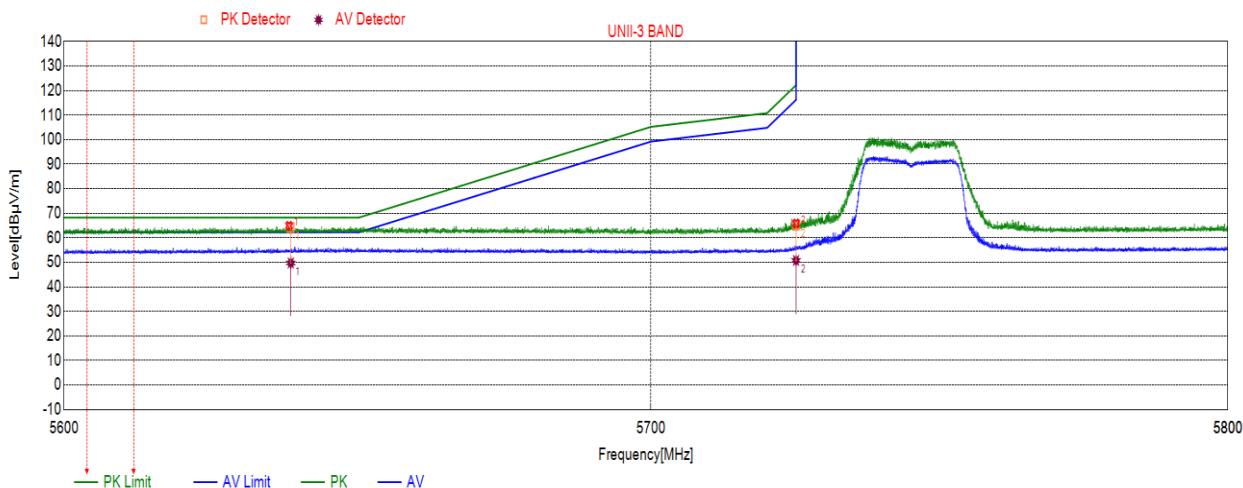


No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5628.0620	64.92	68.20	-3.28	peak
		49.61	68.20	-18.59	average
2	5725.0000	69.39	122.20	-52.81	peak
		53.93	122.20	-68.27	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

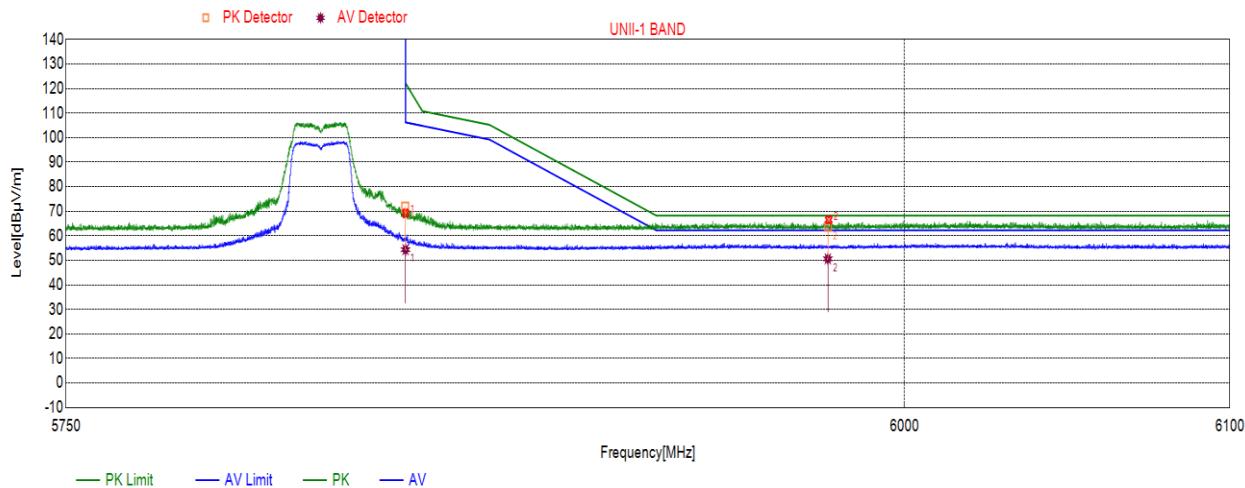
Test Mode	Channel	Polarization	Verdict
11A	5745	Vertical	PASS



No.	Frequency (MHz)	Result (dB _B V/m)	Limit (dB _B V/m)	Margin (dB)	Remark
1	5638.4390	64.26	68.20	-3.94	peak
		49.76	68.20	-18.44	average
2	5725.0000	65.14	122.20	-57.06	peak
		50.76	122.20	-71.44	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11A	5825	Horizontal	PASS

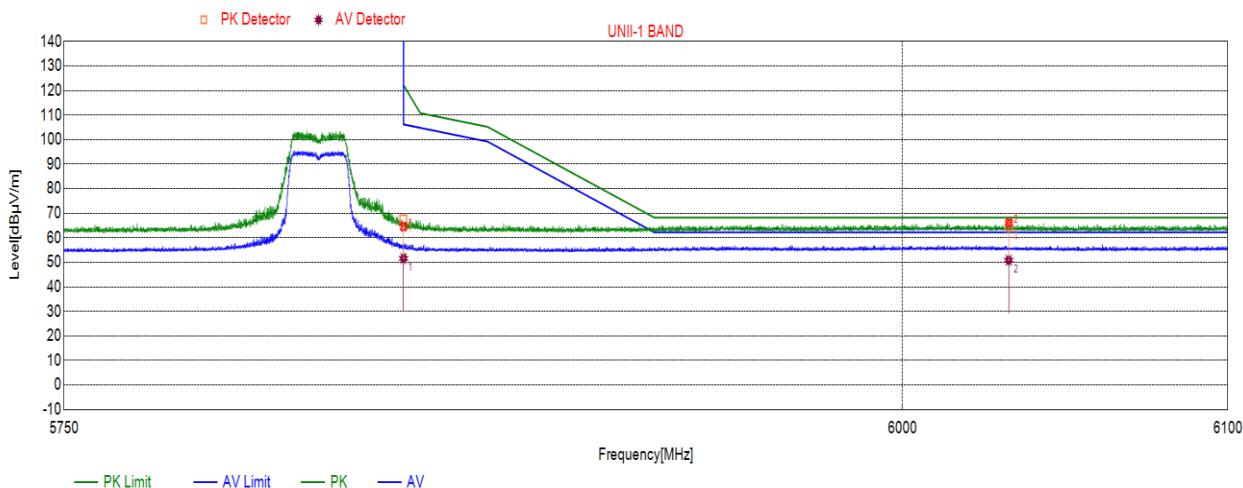


No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)		Margin (dB)	Remark
			PK	AV		
1	5850.0000	71.66	122.20	122.20	-50.54	peak
		54.35	122.20	122.20	-67.85	average
2	5976.7985	63.58	68.20	68.20	-4.62	peak
		50.60	68.20	68.20	-17.6	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

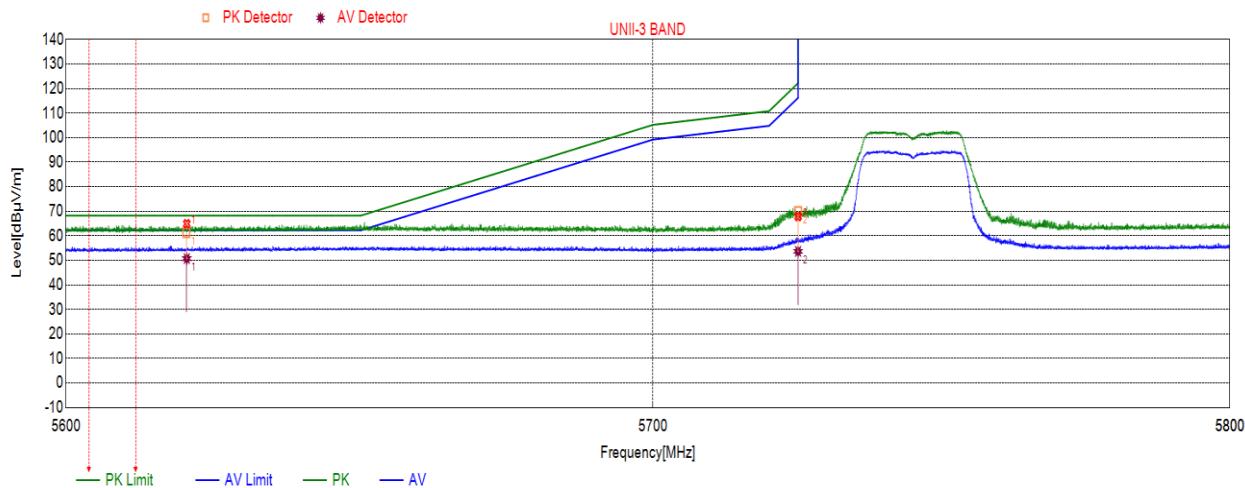
Test Mode	Channel	Polarization	Verdict
11A	5825	Vertical	PASS



No.	Frequency (MHz)	Result (dB _{BuV} /m)	Limit		Margin (dB)	Remark
			PK	AV		
1	5850.0000	67.41	122.20	122.20	-54.79	peak
		51.59	122.20	122.20	-70.61	average
2	6032.5430	64.52	68.20	68.20	-3.68	peak
		50.86	68.20	68.20	-17.34	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

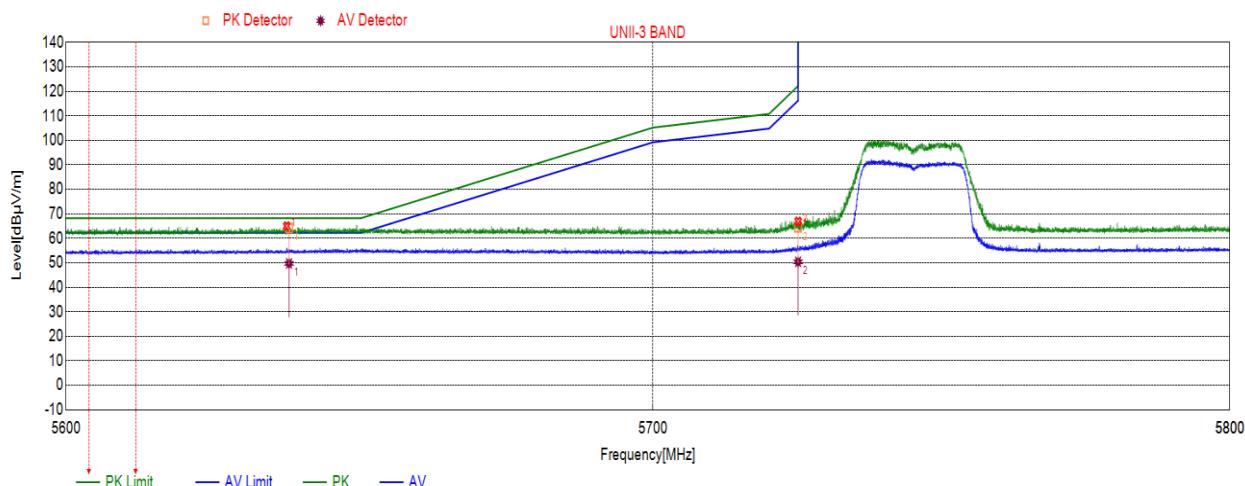
Test Mode	Channel	Polarization	Verdict
11N20	5745	Horizontal	PASS



No.	Frequency (MHz)	Result (dBuV/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	5620.4420	61.33	68.20	-6.87	peak	
		50.71	68.20	-17.49	average	
2	5725.0000	69.90	122.20	-52.3	peak	
		53.65	122.20	-68.55	average	

- Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

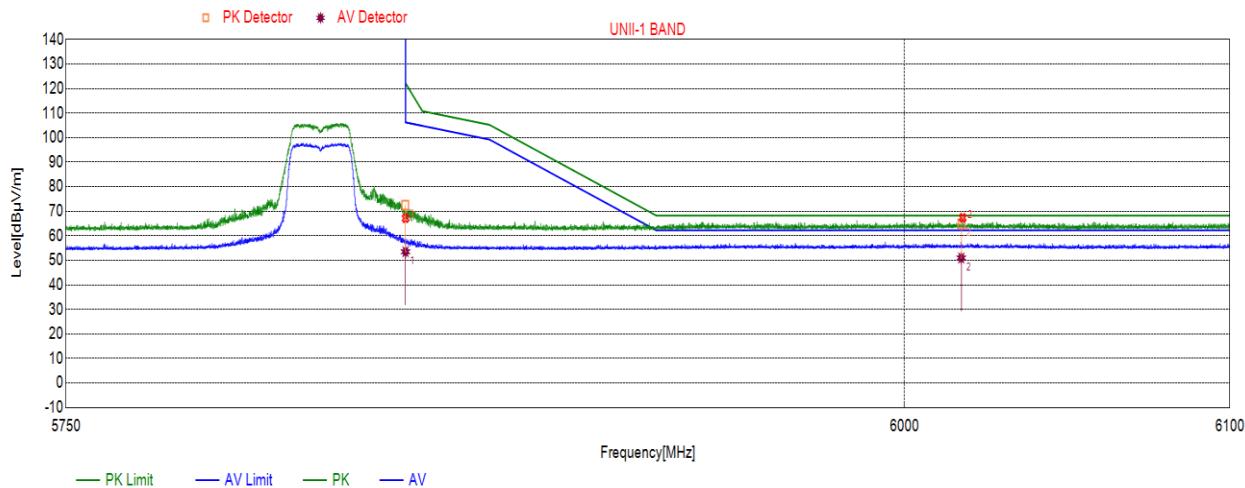
Test Mode	Channel	Polarization	Verdict
11N20	5745	Vertical	PASS



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)		Margin (dB)	Remark
			PK	AV		
1	5637.8031	64.12	68.20	68.20	-4.08	peak
		49.74	68.20	68.20	-18.46	average
2	5725.0000	64.34	122.20	122.20	-57.86	peak
		50.40	122.20	122.20	-71.8	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11N20	5825	Horizontal	PASS

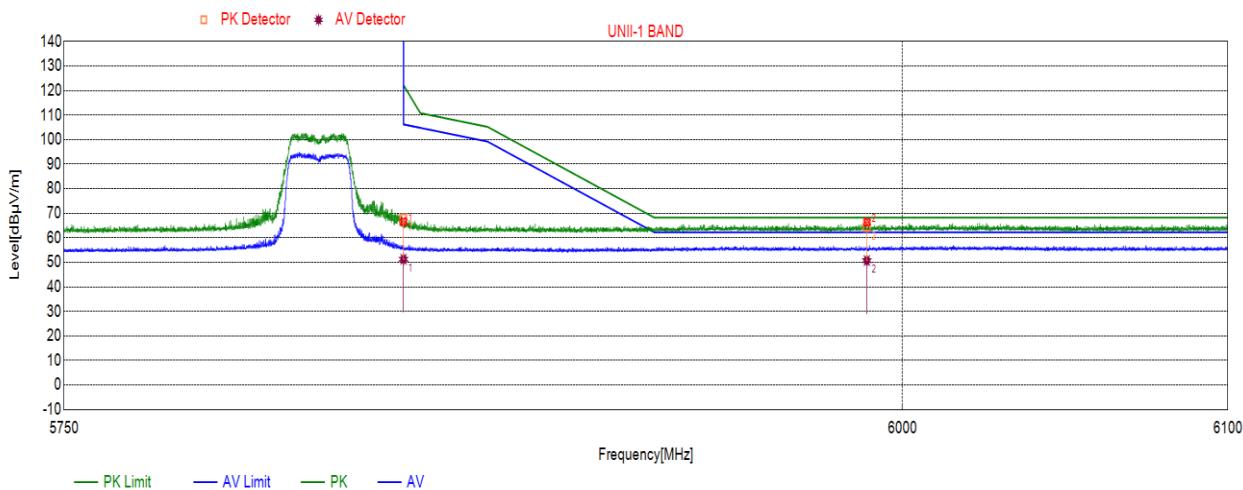


No.	Frequency (MHz)	Result (dBuV/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	5850.0000	72.58	122.20	-49.62	-	peak
		53.50	122.20	-68.7	-	average
2	6017.4242	64.75	68.20	-3.45	-	peak
		50.97	68.20	-17.23	-	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

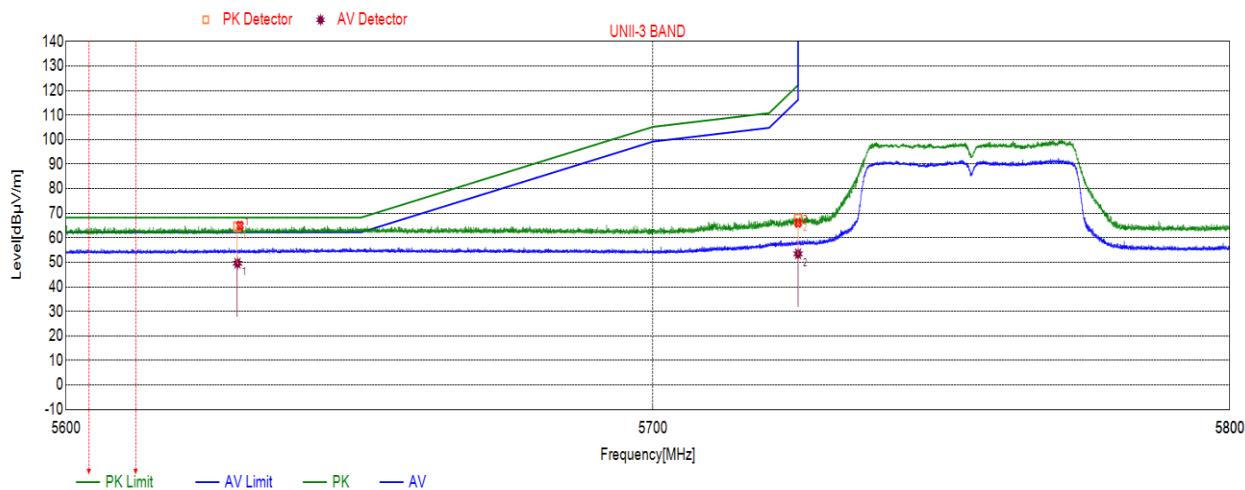
Test Mode	Channel	Polarization	Verdict
11N20	5825	Vertical	PASS



No.	Frequency (MHz)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
1	5850.0000	67.82	122.20	-54.38	peak
		51.27	122.20	-70.93	average
2	5989.2480	64.32	68.20	-3.88	peak
		50.72	68.20	-17.48	average

Note: 1. If Peak Result complies with AV Limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11N40	5755	Horizontal	PASS

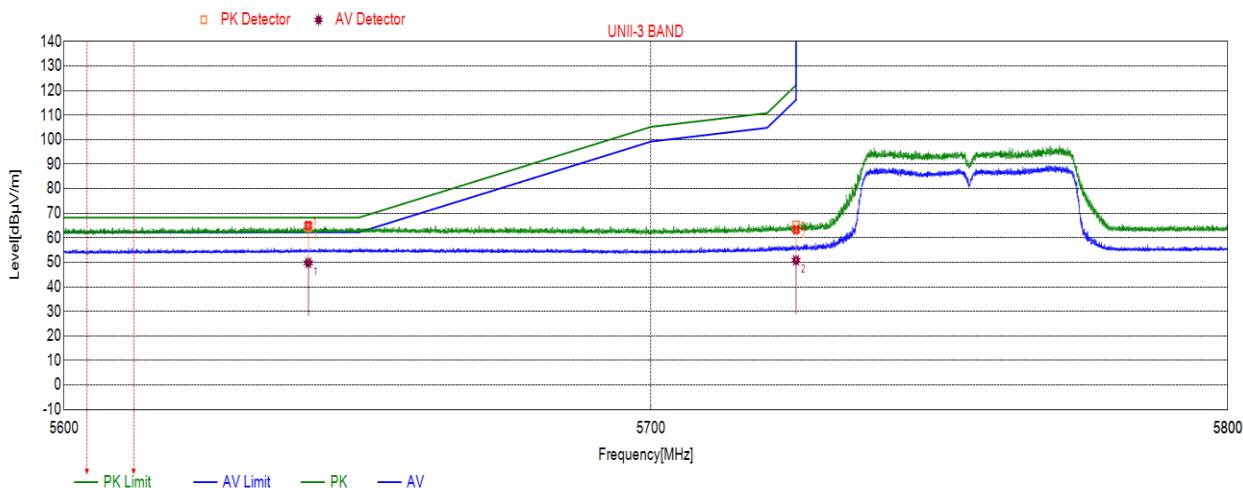


No.	Frequency	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	5629.0374	64.48	68.20	-3.72	peak
		49.64	68.20	-18.56	average
2	5725.0000	67.65	122.20	-54.55	peak
		53.48	122.20	-68.72	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

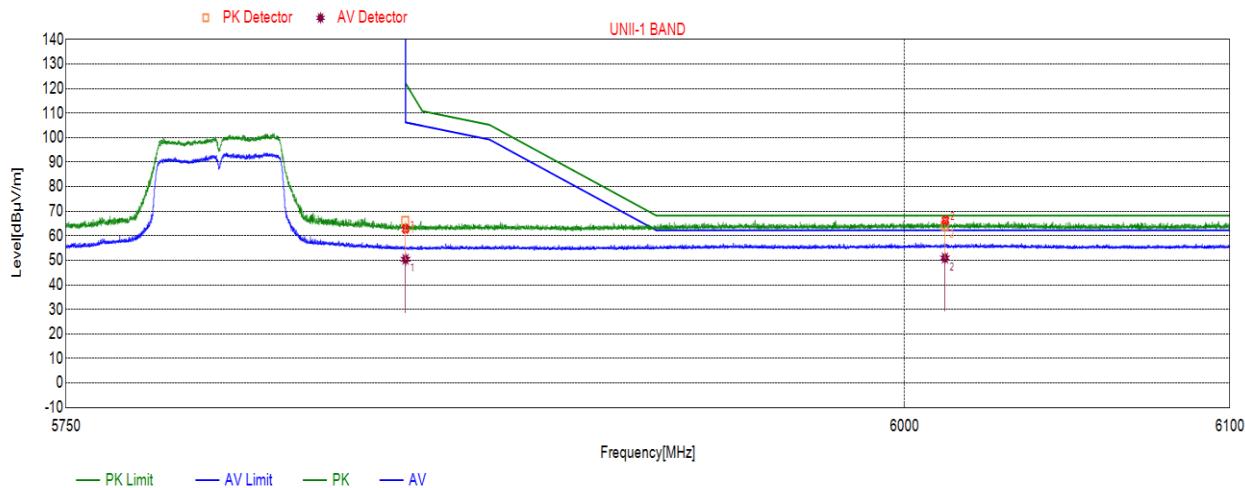
Test Mode	Channel	Polarization	Verdict
11N40	5755	Vertical	PASS



No.	Frequency (MHz)	Result (dB _B V/m)	Limit (dB _B V/m)	Margin (dB)	Remark
1	5641.4032	64.32	68.20	-3.88	peak
		49.83	68.20	-18.37	average
2	5725.0000	64.74	122.20	-57.46	peak
		50.83	122.20	-71.37	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

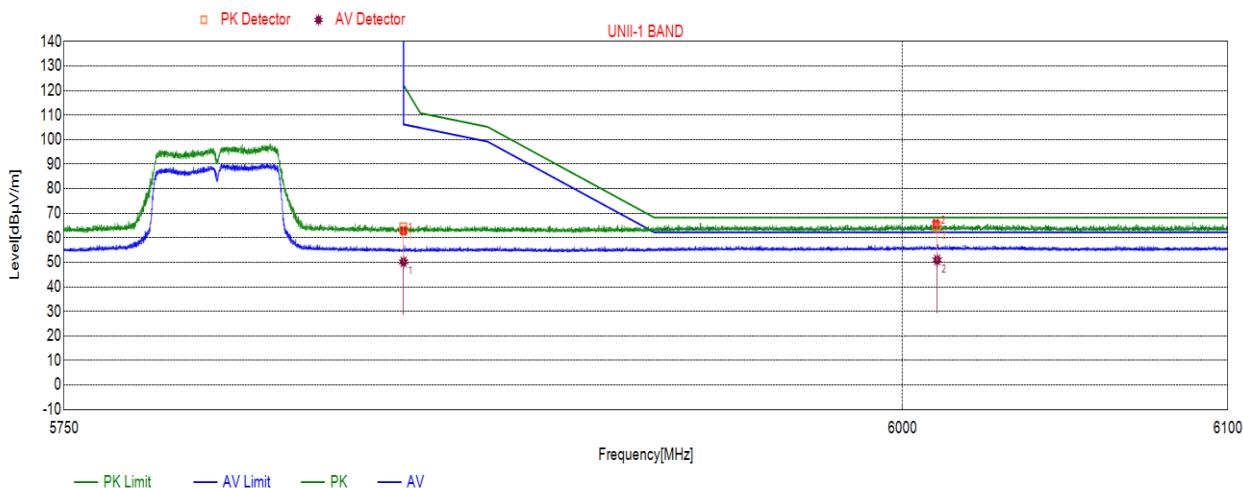
Test Mode	Channel	Polarization	Verdict
11N40	5795	Horizontal	PASS



No.	Frequency (MHz)	Result (dBuV/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	5850.0000	65.82	122.20	122.20	-56.38	peak
		50.43	122.20	122.20	-71.77	average
2	6012.4299	64.05	68.20	68.20	-4.15	peak
		50.95	68.20	68.20	-17.25	average

- Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

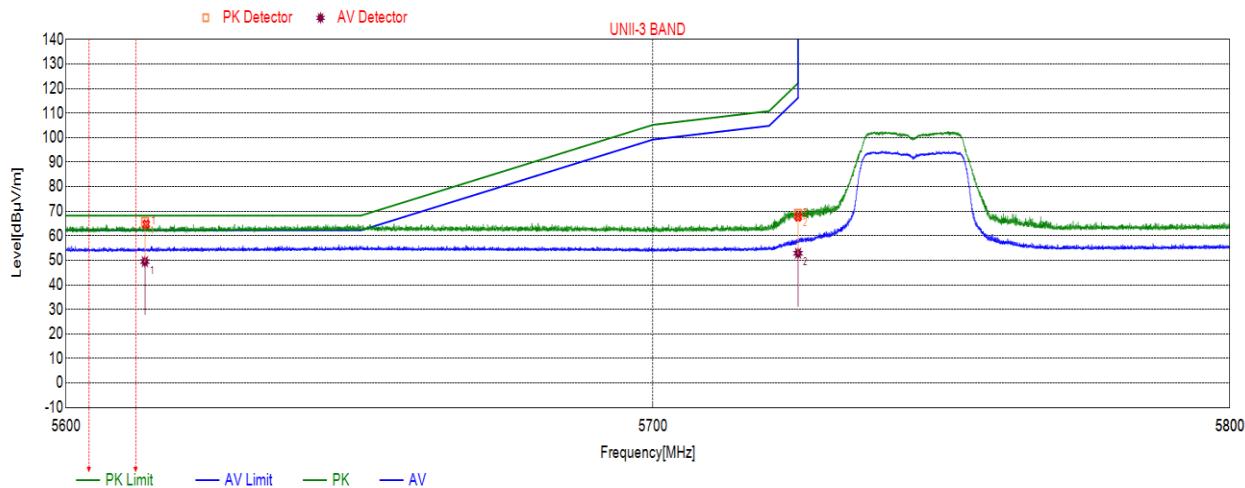
Test Mode	Channel	Polarization	Verdict
11N40	5795	Vertical	PASS



No.	Frequency (MHz)	Result (dB _u V/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	5850.0000	64.20	122.20	122.20	-58	peak
		50.20	122.20	122.20	-72	average
2	6010.6709	64.53	68.20	68.20	-3.67	peak
		50.96	68.20	68.20	-17.24	average

Note: 1. If Peak Result complies with AV Limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11AC20	5745	Horizontal	PASS

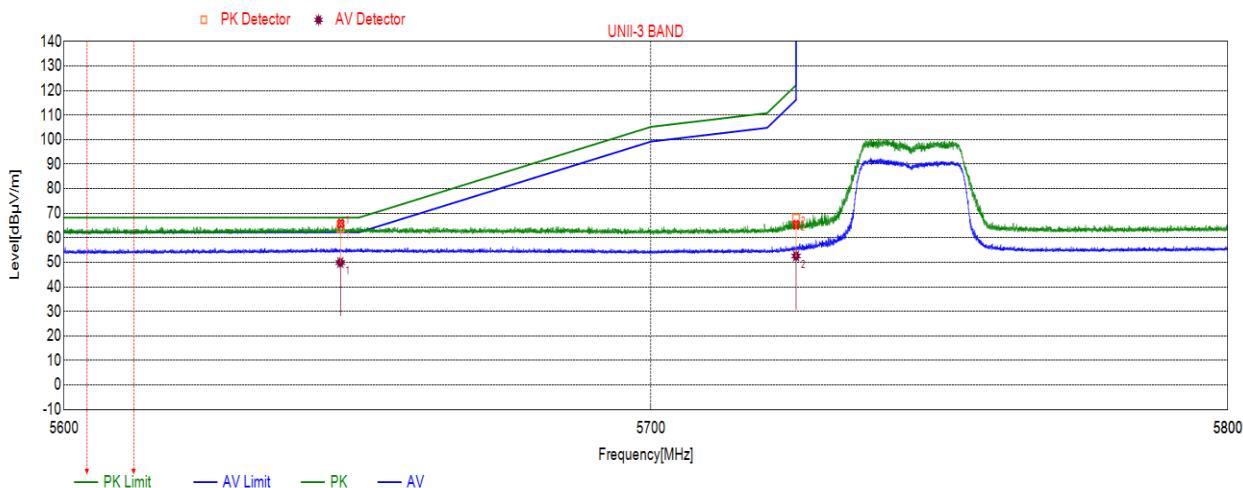


No.	Frequency	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	5613.3443	65.70	68.20	-2.5	peak
		49.48	68.20	-18.72	average
2	5725.0000	68.74	122.20	-53.46	peak
		52.90	122.20	-69.3	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

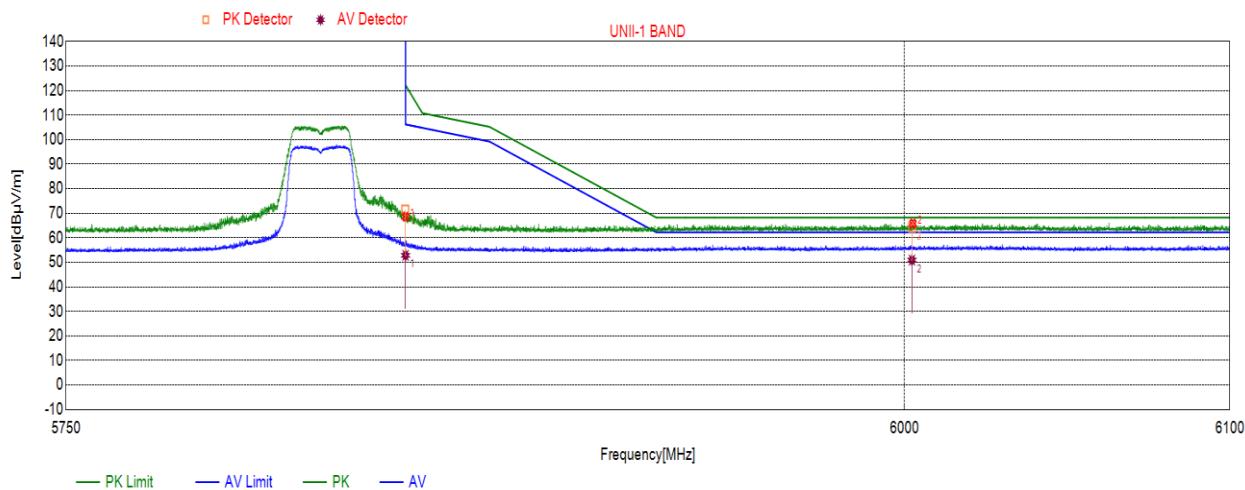
Test Mode	Channel	Polarization	Verdict
11AC 20	5745	Vertical	PASS



No.	Frequency (MHz)	Result (dB _{AV} V/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	5646.8564	64.07	68.20	-4.13	peak	
		49.93	68.20	-18.27	average	
2	5725.0000	67.77	122.20	-54.43	peak	
		52.58	122.20	-69.62	average	

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11AC 20	5825	Horizontal	PASS

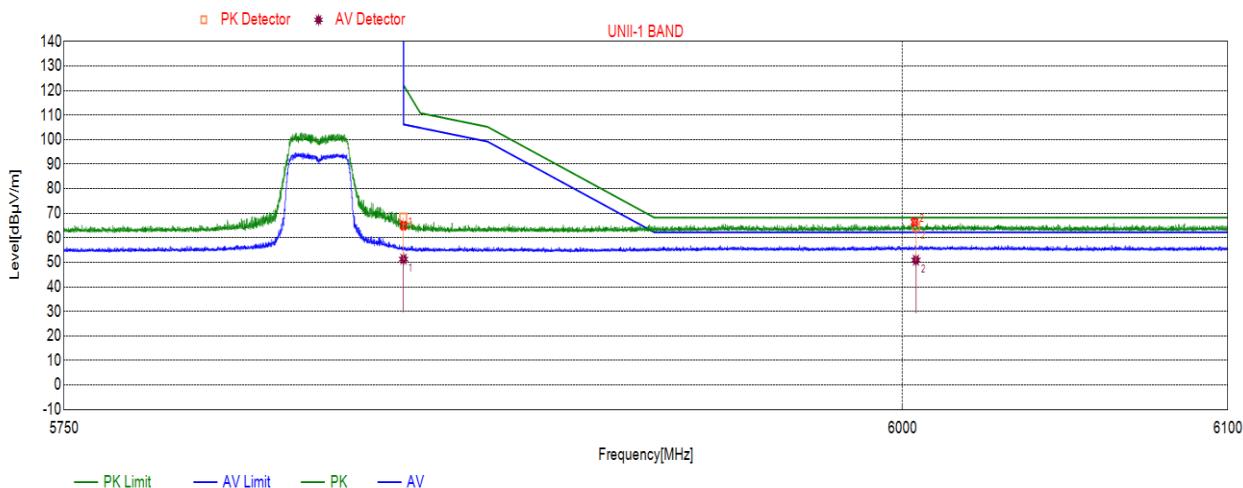


No.	Frequency	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	5850.0000	71.22	122.20	-50.98	peak
		52.83	122.20	-69.37	average
2	6002.3760	64.10	68.20	-4.1	peak
		50.91	68.20	-17.29	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

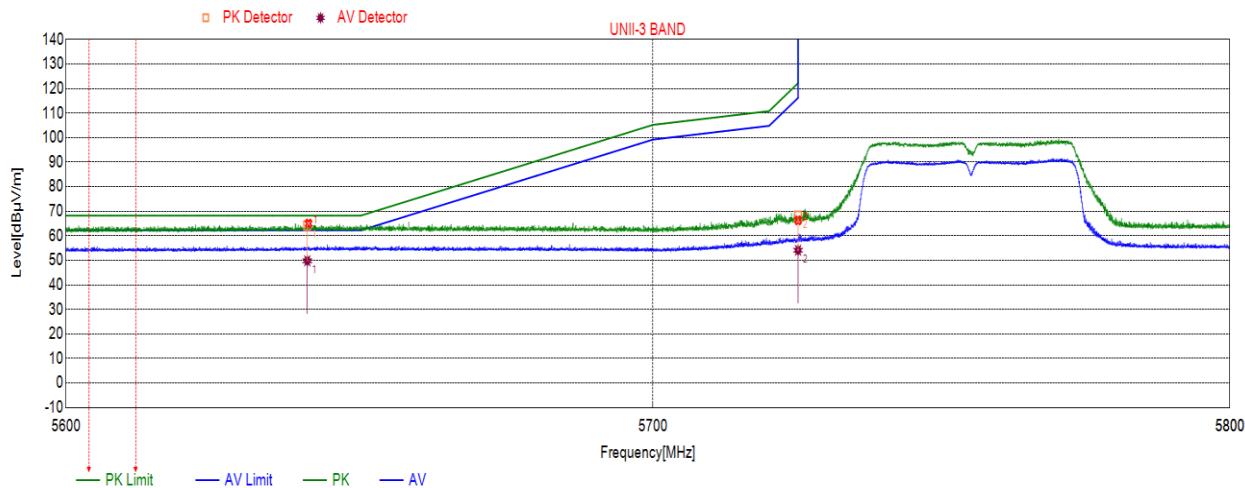
Test Mode	Channel	Polarization	Verdict
11AC 20	5825	Vertical	PASS



No.	Frequency (MHz)	Result (dB _u V/m)	Limit (dB _u V/m)	Margin (dB)	Remark
1	5850.0000	68.15	122.20	-54.05	peak
		51.30	122.20	-70.9	average
2	6004.1951	64.41	68.20	-3.79	peak
		50.90	68.20	-17.3	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11AC 40	5755	Horizontal	PASS

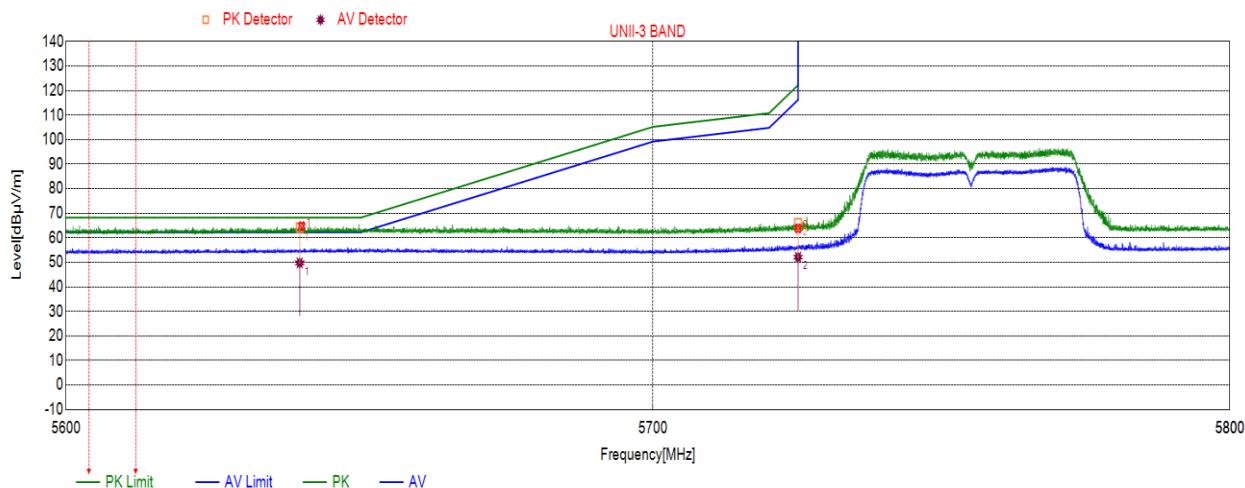


No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5640.9012	64.21	68.20	-3.99	peak
		49.82	68.20	-18.38	average
2	5725.0000	68.15	122.20	-54.05	peak
		54.11	122.20	-68.09	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

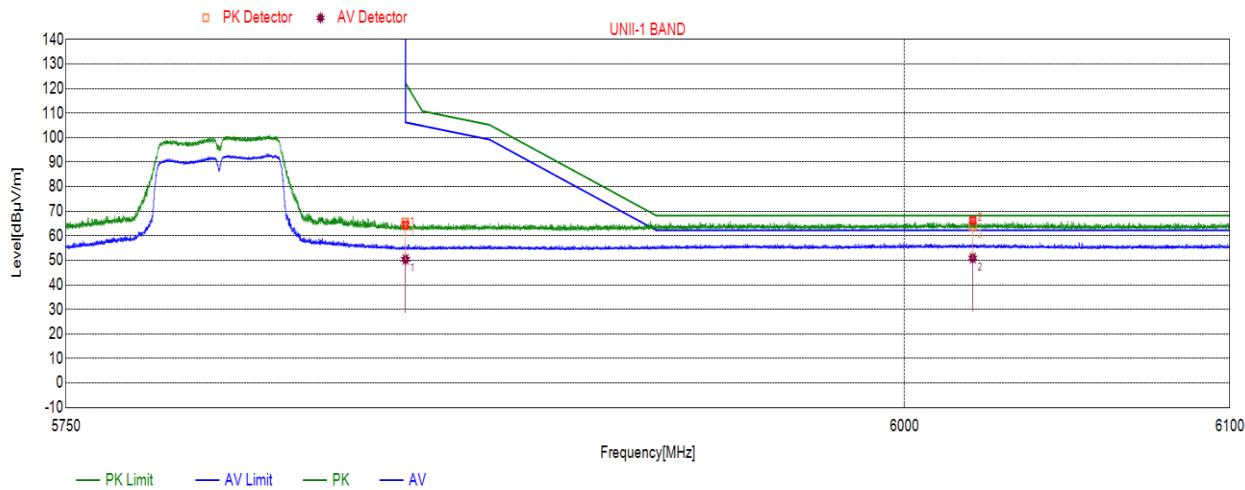
Test Mode	Channel	Polarization	Verdict
11AC 40	5755	Vertical	PASS



No.	Frequency (MHz)	Result (dB _u V/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	5639.6123	63.96	68.20	68.20	-4.24	peak
		49.78	68.20	68.20	-18.42	average
2	5725.0000	66.07	122.20	122.20	-56.13	peak
		52.11	122.20	122.20	-70.09	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

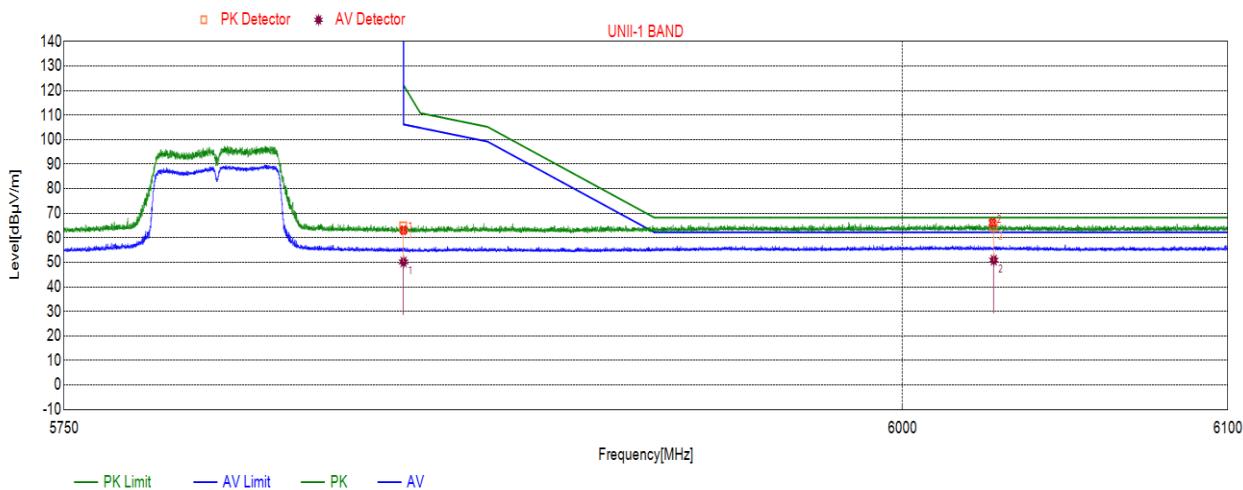
Test Mode	Channel	Polarization	Verdict
11AC 40	5795	Horizontal	PASS



No.	Frequency (MHz)	Result (dBuV/m)	Limit		Margin (dB)	Remark
			PK	AV		
1	5850.0000	65.22	122.20	122.20	-56.98	peak
		50.41	122.20	122.20	-71.79	average
2	6020.9216	64.11	68.20	68.20	-4.09	peak
		50.93	68.20	68.20	-17.27	average

- Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

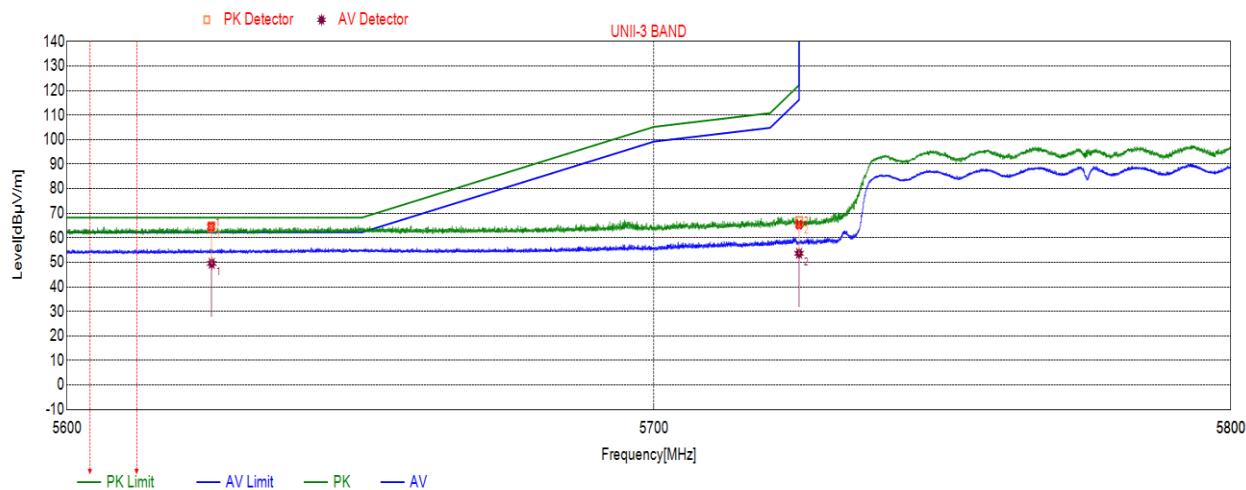
Test Mode	Channel	Polarization	Verdict
11AC 40	5795	Vertical	PASS



No.	Frequency (MHz)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
					PK AV
1	5850.0000	64.46	122.20	-57.74	peak
		50.18	122.20	-72.02	average
2	6027.9685	64.29	68.20	-3.91	peak
		50.90	68.20	-17.3	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

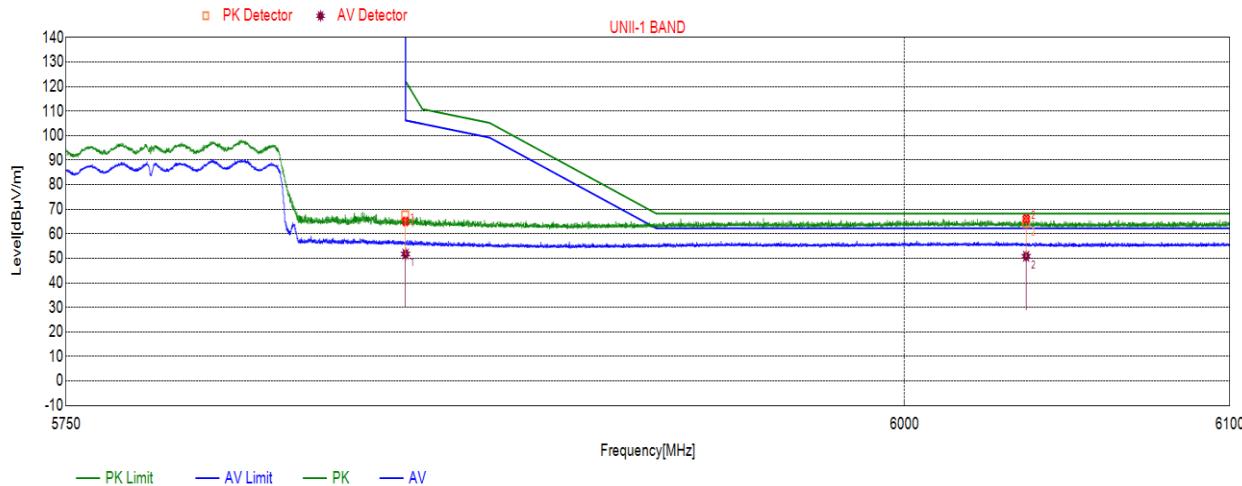
Test Mode	Channel	Polarization	Verdict
11AC 80	5775	Horizontal-Left	PASS



No.	Frequency (MHz)	Result (dBuV/m)	Limit	Margin	Remark
			(dBuV/m)	(dB)	
1	5624.4996	64.46	68.20	-3.74	peak
		49.56	68.20	-18.64	average
2	5725.0000	66.62	122.20	-55.58	peak
		53.66	122.20	-68.54	average

- Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11AC 80	5775	Horizontal-Right	PASS

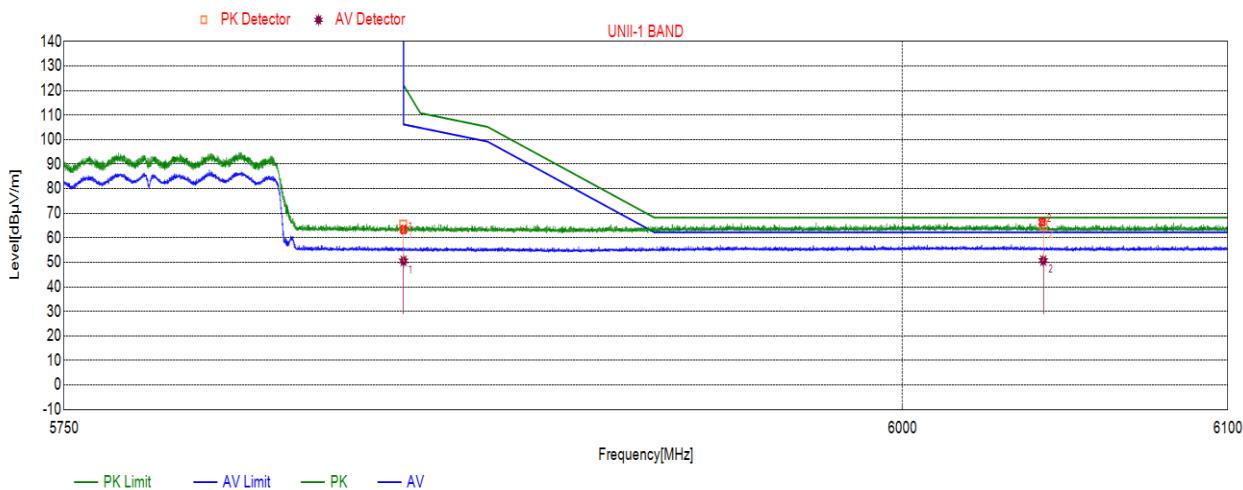


No.	Frequency (MHz)	Result (dB μ V/m)	Limit		Margin (dB)	Remark
			(dB μ V/m)	(dB μ V/m)		
1	5850.0000	67.49	122.20	-54.71	-	peak
		51.76	122.20	-70.44	-	average
2	6037.2870	64.33	68.20	-3.87	-	peak
		50.84	68.20	-17.36	-	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

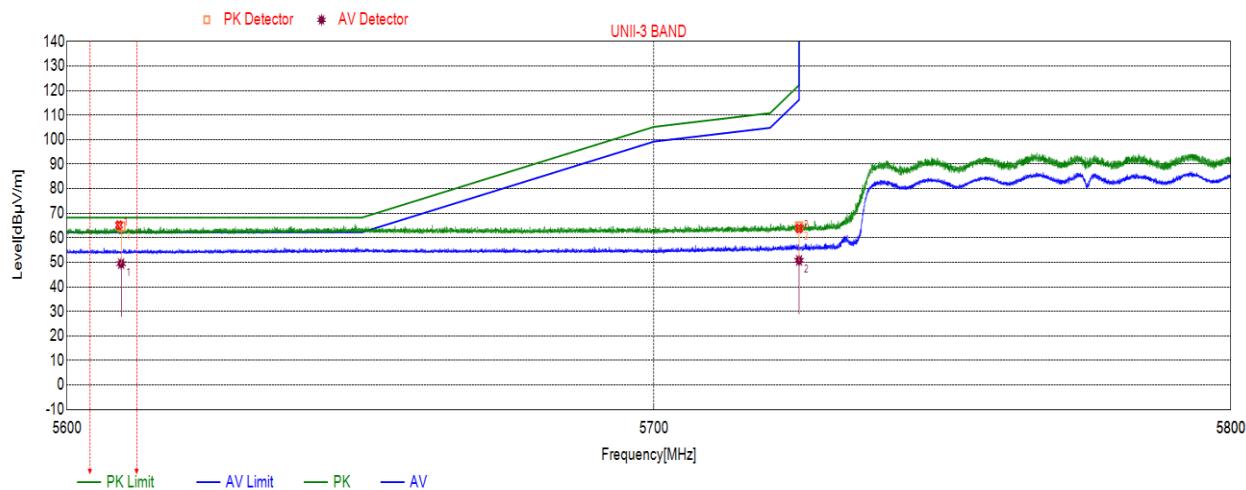
Test Mode	Channel	Polarization	Verdict
11AC 80	5775	Vertical-Right	PASS



No.	Frequency (MHz)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
1	5850.0000	65.00	122.20	-57.2	peak
		50.59	122.20	-71.61	average
2	6043.1444	64.87	68.20	-3.33	peak
		50.72	68.20	-17.48	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

Test Mode	Channel	Polarization	Verdict
11AC 80	5775	Vertical-Left	PASS



No.	Frequency	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	5609.1612	64.34	68.20	-3.86	peak
		49.47	68.20	-18.73	average
2	5725.0000	64.33	122.20	-57.87	peak
		50.79	122.20	-71.41	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.

7.4. HARMONICS AND SPURIOUS EMISSIONS

7.4.1. UNII-I BAND

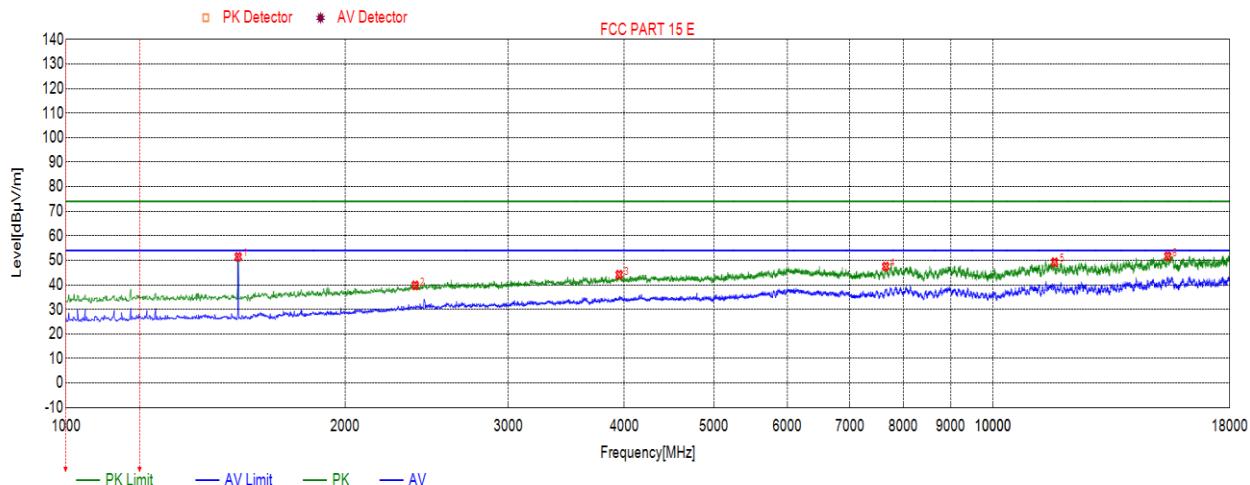
Test Result Table

Test Mode	Channel	Puw(dBm)	Verdict
11A	5180	<Limit	PASS
	5200	<Limit	PASS
	5240	<Limit	PASS
11N20	5180	<Limit	PASS
	5200	<Limit	PASS
	5240	<Limit	PASS
11N40	5190	<Limit	PASS
	5230	<Limit	PASS
11AC20	5180	<Limit	PASS
	5200	<Limit	PASS
	5240	<Limit	PASS
11AC40	5190	<Limit	PASS
	5230	<Limit	PASS
11AC80	5210	<Limit	PASS

Remark: Pre-testing all test, find the modes of 11A and 11AC are the worst case, so only the data of the 11A mode and 11AC mode are included in this test report.

Test Graphs:

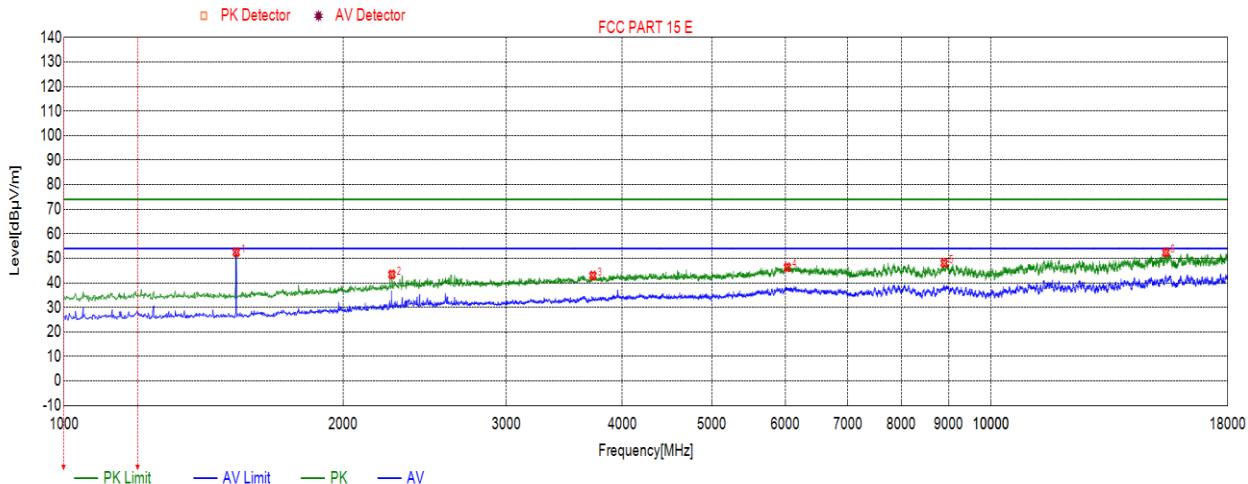
Test Mode	Channel	Polarization	Verdict
11A	5180	Horizontal	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dB μ V /m)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB)	
1	1533.8534	51.44	74.00	-22.56	54.00	-2.56	peak
2	2380.5381	39.79	74.00	-34.21	54.00	-14.21	peak
3	3951.4952	44.16	74.00	-29.84	54.00	-9.84	peak
4	7659.5660	47.48	74.00	-26.52	54.00	-6.52	peak
5	11651.5652	49.24	74.00	-24.76	54.00	-4.76	peak
6	15434.4434	51.70	74.00	-22.30	54.00	-2.30	peak

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.
 4. For duty cycle, please refer to clause 6.1.
 5. Owing to the highest peak level complies with the lowest limit of unwanted emission out of the restricted bands, so all the test point were deemed to comply with the limits list in the standard.

Test Mode	Channel	Polarization	Verdict
11A	5180	Vertical	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV /m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	1533.8534	52.46	74.00	-21.54	54.00	-1.54	peak
2	2258.1258	43.43	74.00	-30.57	54.00	-10.57	peak
3	3720.2720	42.97	74.00	-31.03	54.00	-11.03	peak
4	6030.8031	46.35	74.00	-27.65	54.00	-7.65	peak
5	8902.3902	48.03	74.00	-25.97	54.00	-5.97	peak
6	15437.8438	52.38	74.00	-21.62	54.00	-1.62	peak

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 3. For average power measurement, set the VBW to Minimum VBW=10 Hz.
 4. For duty cycle, please refer to clause 6.1.
 5. Owing to the highest peak level complies with the lowest limit of unwanted emission out of the restricted bands, so all the test point were deemed to comply with the limits list in the standard.