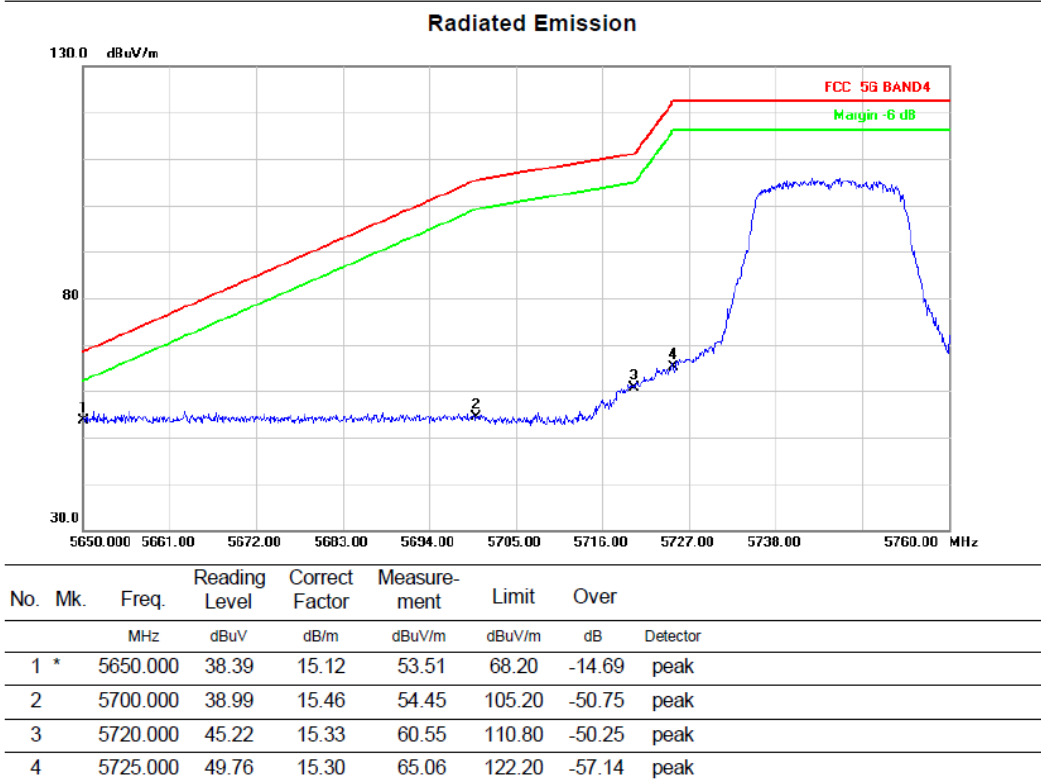
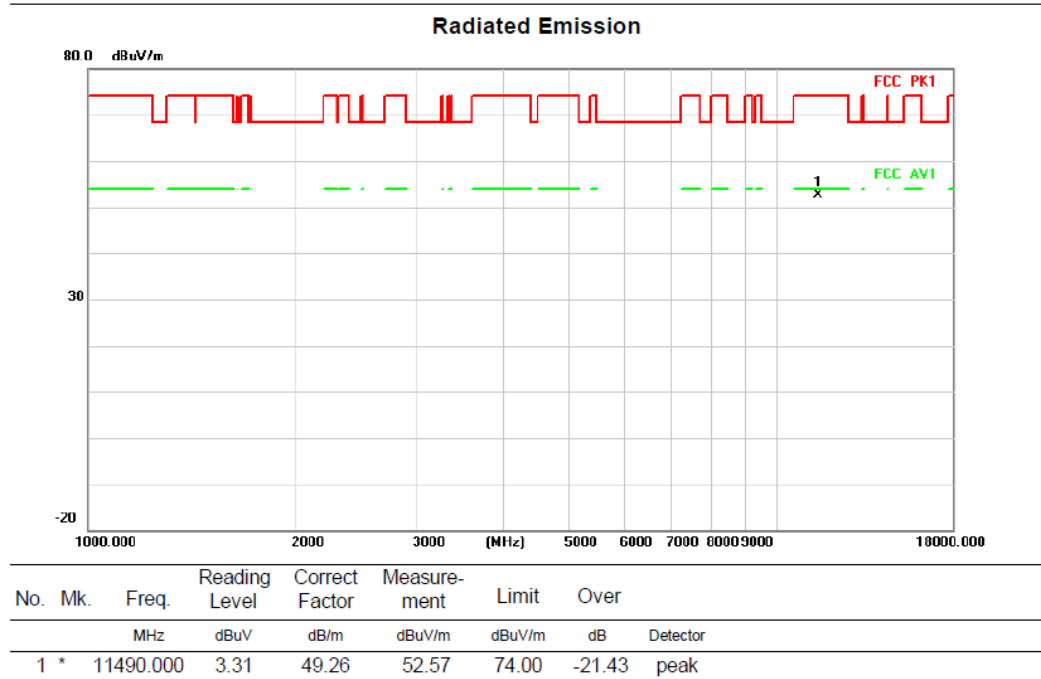


Above 1G (1GHz~18GHz)

Test mode: 11AX20MIMO

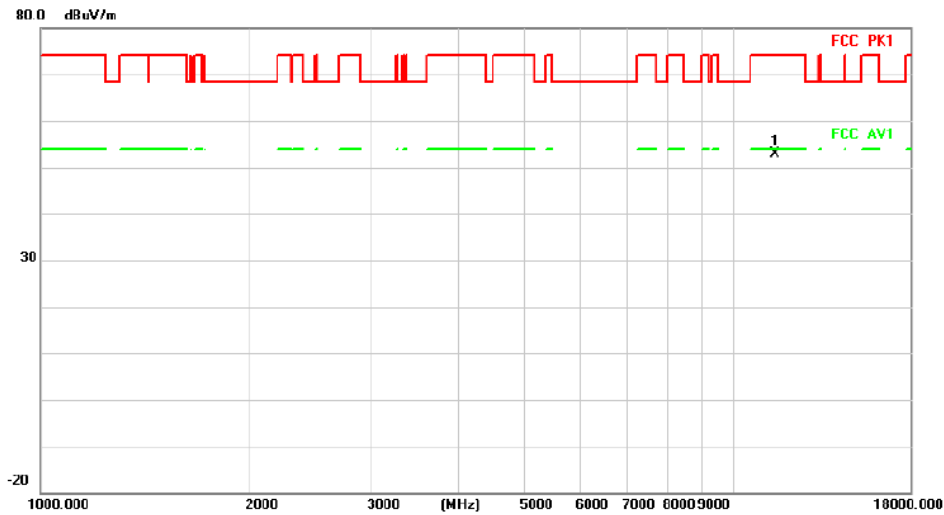
Test Channel:149

VERTICAL



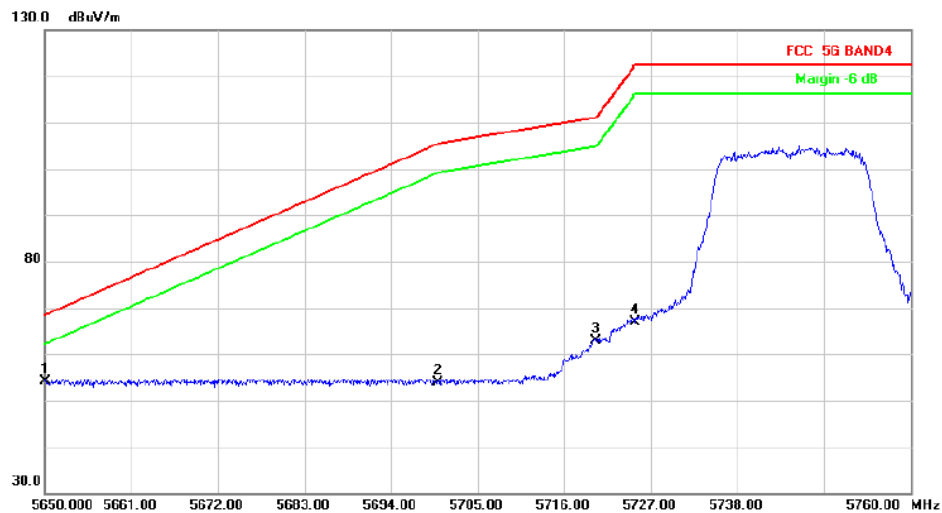
HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	11490.000	3.66	49.26	52.92	74.00	-21.08 peak

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	5650.000	38.90	15.12	54.02	68.20	-14.18 peak
2		5700.000	38.35	15.46	53.81	105.20	-51.39 peak
3		5720.000	47.56	15.33	62.89	110.80	-47.91 peak
4		5725.000	51.54	15.30	66.84	122.20	-55.36 peak

Above 1G (1GHz~18GHz)

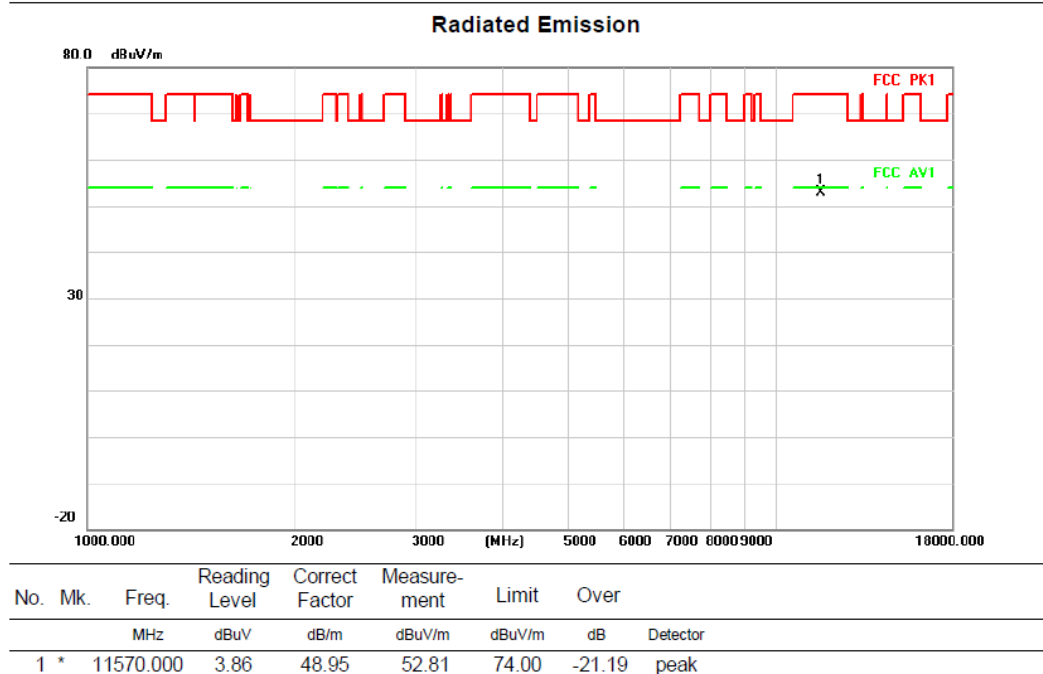
Test mode: 11AX20MIMO

Test Channel:157

VERTICAL



HORIZONTAL



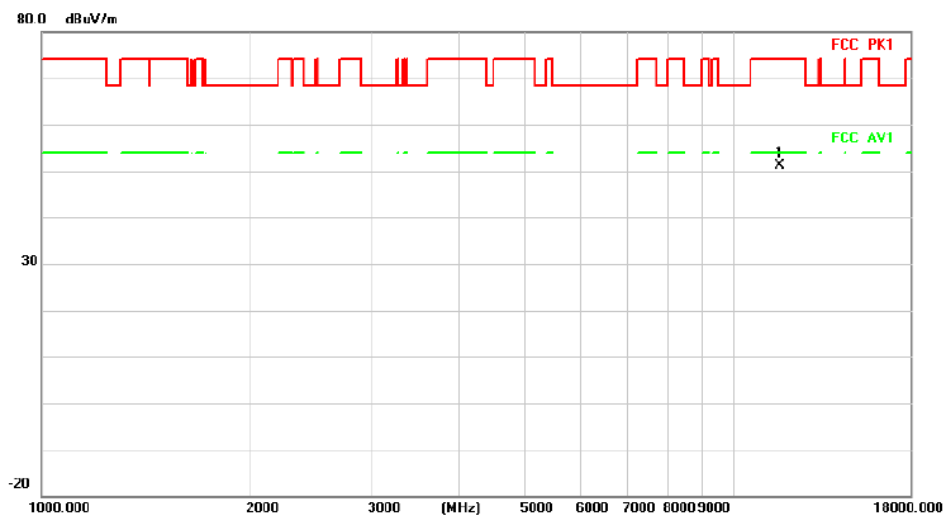
Above 1G (1GHz~18GHz)

Test mode: 11AX20MIMO

Test Channel:165

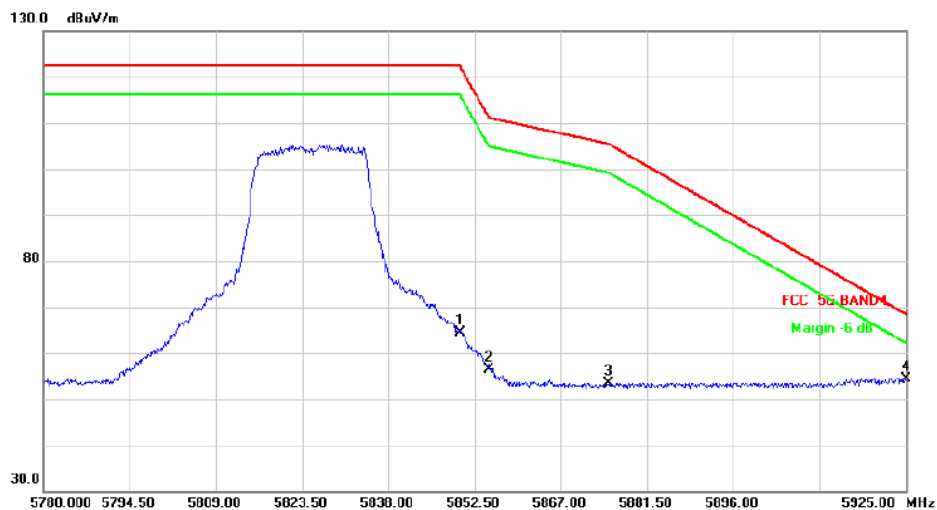
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	11650.000	2.63	48.62	51.25	74.00	-22.75 peak

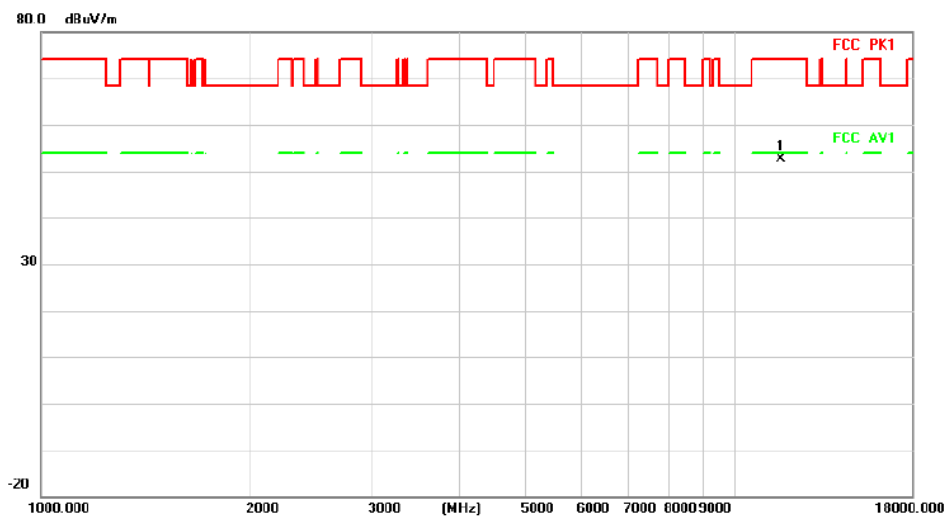
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1		5850.000	49.22	15.18	64.40	122.20	-57.80 peak
2		5855.000	41.13	15.25	56.38	110.80	-54.42 peak
3		5875.000	37.95	15.51	53.46	105.20	-51.74 peak
4	*	5925.000	38.18	16.28	54.46	68.20	-13.74 peak

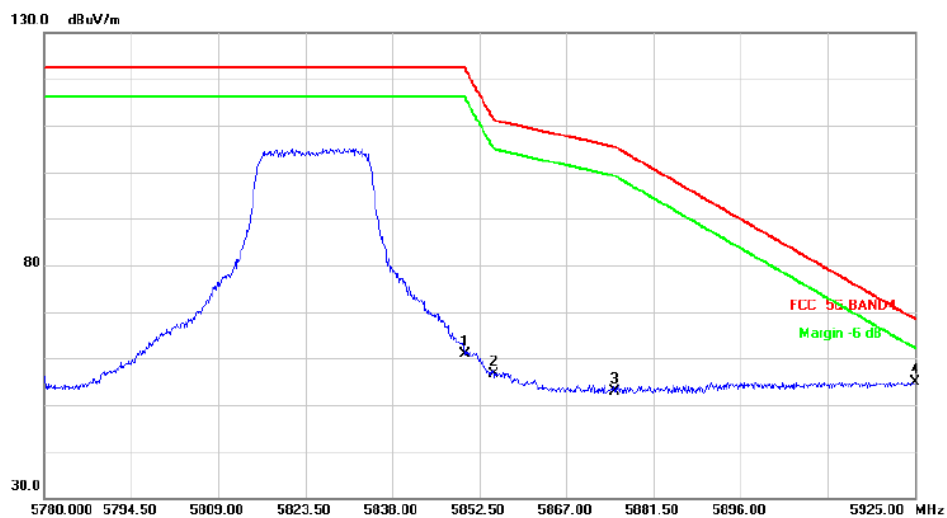
HORIZONTALA

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	11650.000	3.97	48.62	52.59	74.00	-21.41 peak

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1		5850.000	45.68	15.18	60.86	122.20	-61.34 peak
2		5855.000	41.44	15.25	56.69	110.80	-54.11 peak
3		5875.000	37.46	15.51	52.97	105.20	-52.23 peak
4	*	5925.000	38.58	16.28	54.86	68.20	-13.34 peak

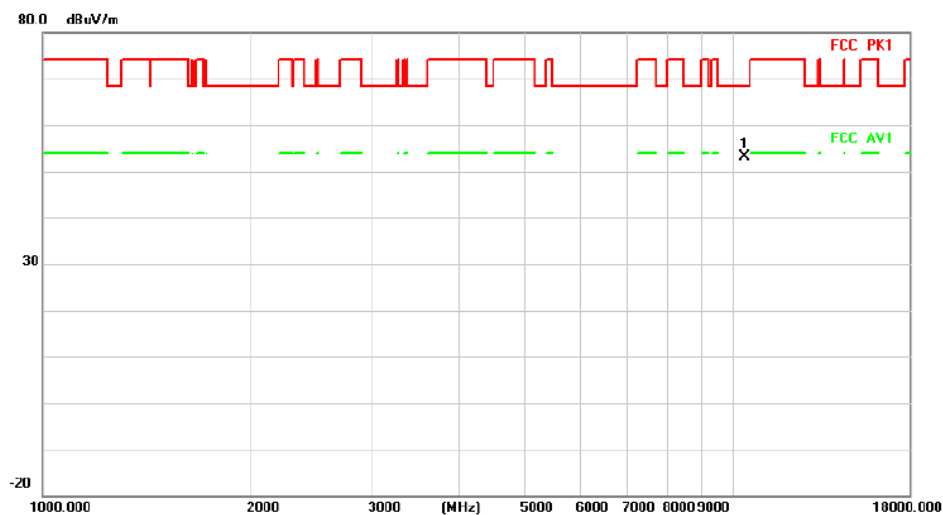
Above 1G (1GHz~18GHz)

Test mode: 11AX40MIMO

Test Channel:38

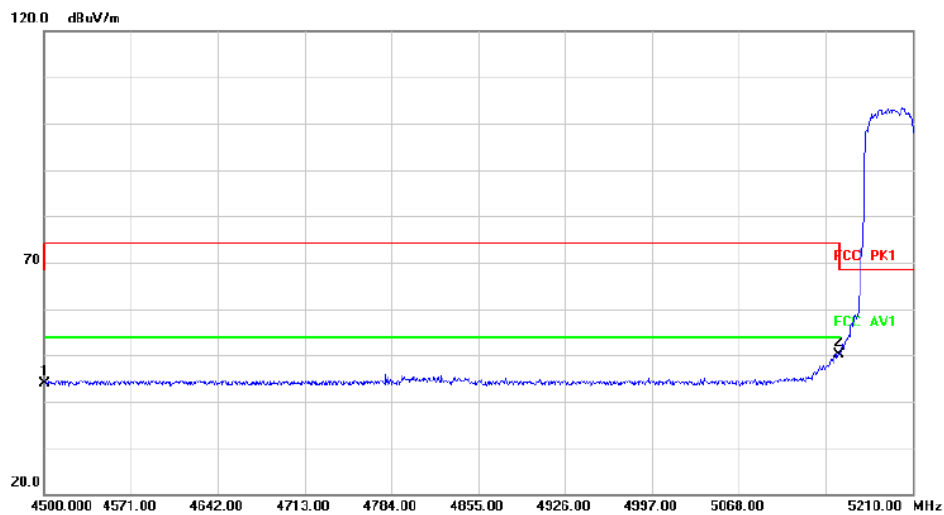
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	10380.000	36.26	16.80	53.06	68.20	-15.14	peak

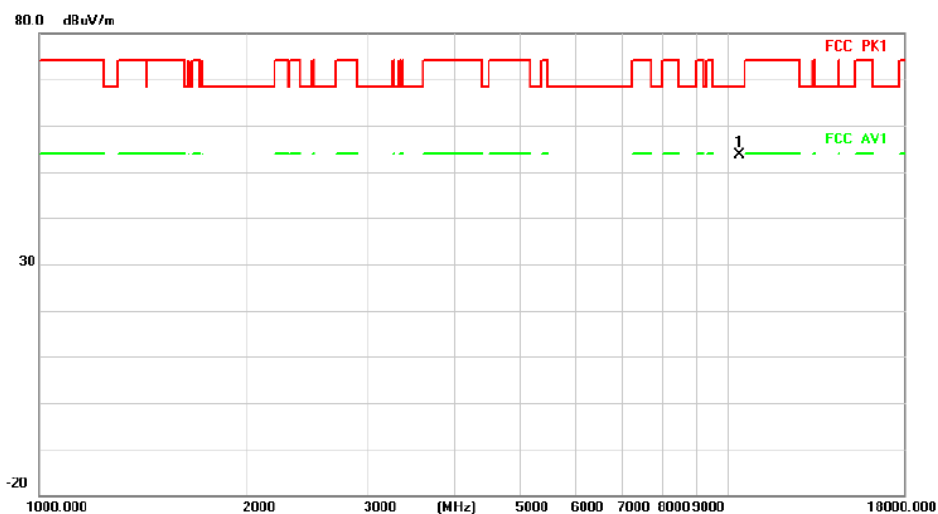
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4500.000	29.96	13.85	43.81	68.20	-24.39	peak
2	*	5150.000	34.56	15.62	50.18	68.20	-18.02	peak

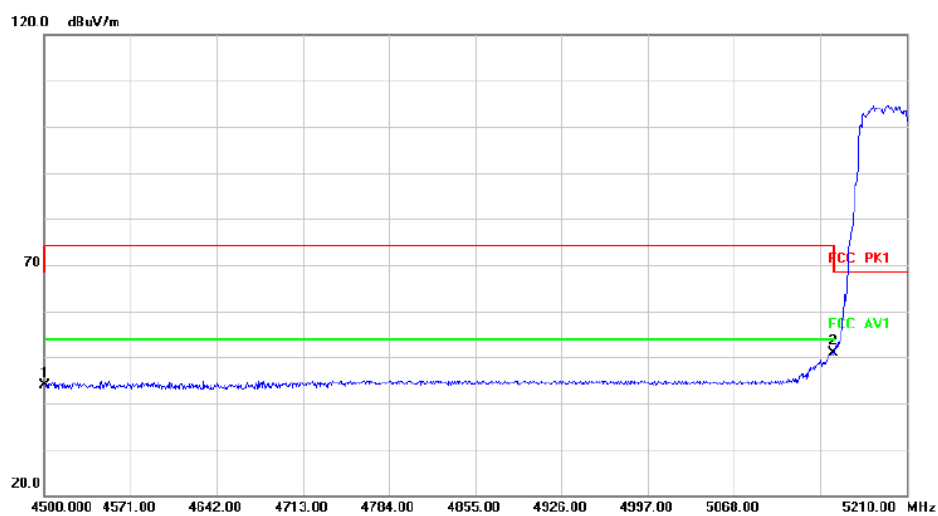
HORIZONTALA

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	10380.000	36.91	16.80	53.71	68.20	-14.49 peak

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1		4500.000	30.11	13.85	43.96	68.20	-24.24 peak
2	*	5150.000	35.24	15.62	50.86	68.20	-17.34 peak

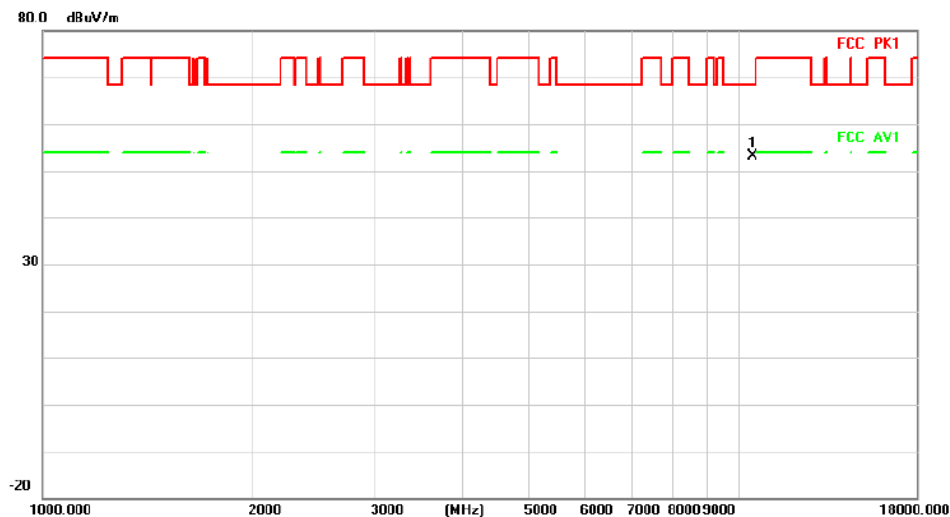
Above 1G (1GHz~18GHz)

Test mode: 11AX40MIMO

Test Channel:46

VERTICAL

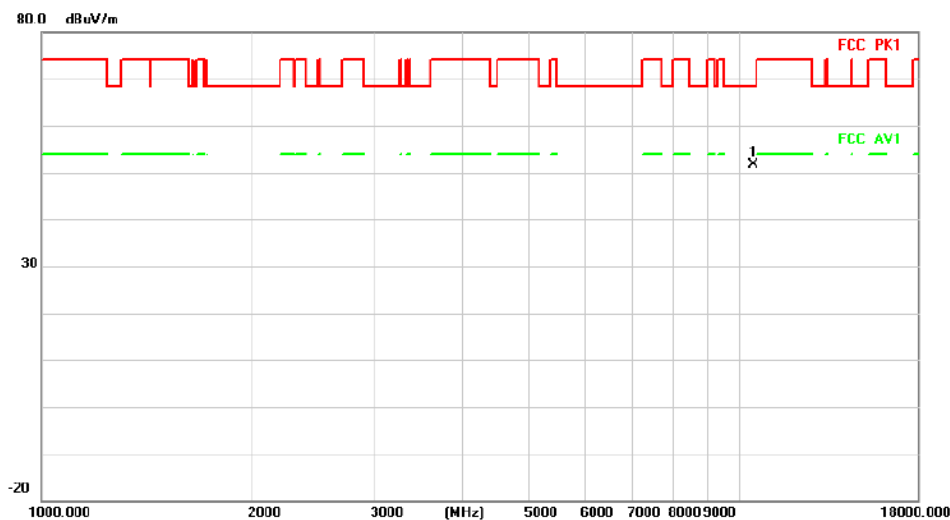
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	10460.000	36.53	16.49	53.02	68.20	-15.18	peak

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	10460.000	35.18	16.49	51.67	68.20	-16.53	peak

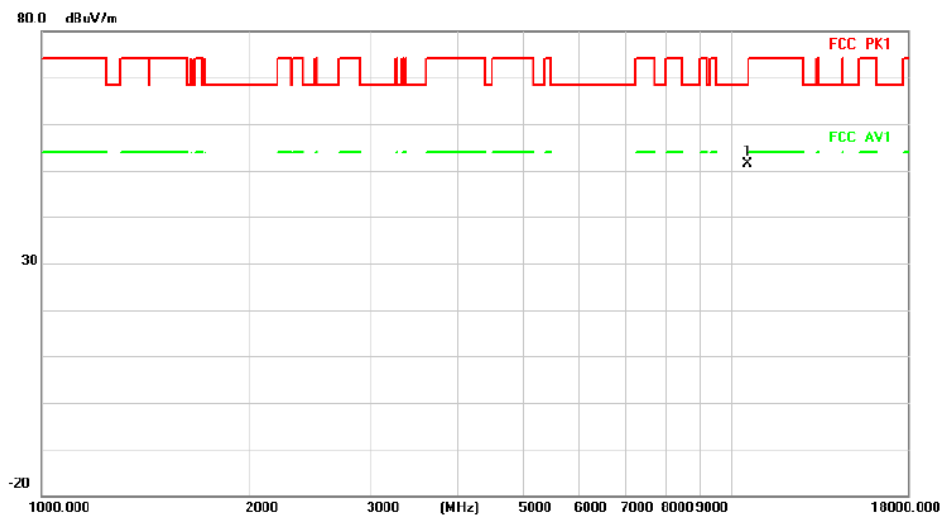
Above 1G (1GHz~18GHz)

Test mode: 11AX40MIMO

Test Channel:54

VERTICAL

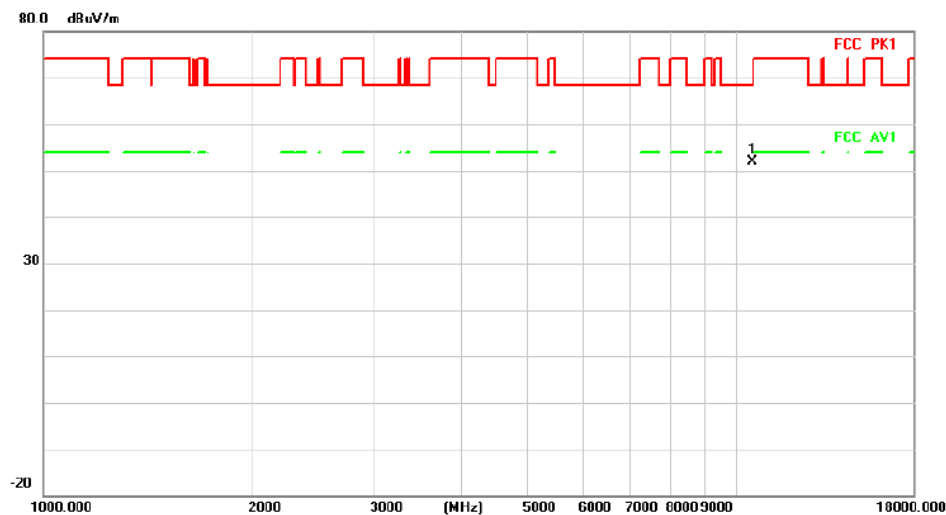
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	10540.000	74.94	-23.44	51.50	68.20	-16.70 peak

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	10540.000	35.71	16.14	51.85	68.20	-16.35 peak

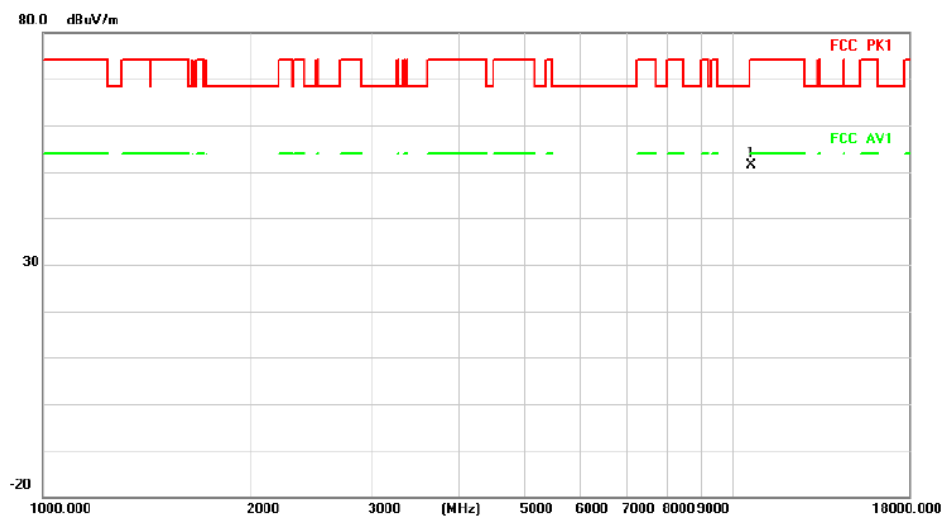
Above 1G (1GHz~18GHz)

Test mode: 11AX40MIMO

Test Channel:62

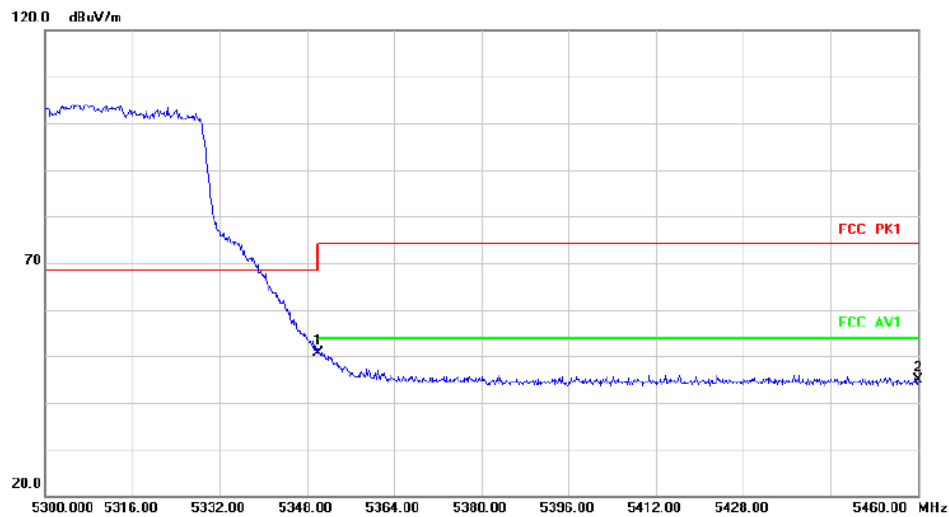
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	10620.000	35.40	16.07	51.47	74.00	-22.53 peak

Radiated Emission



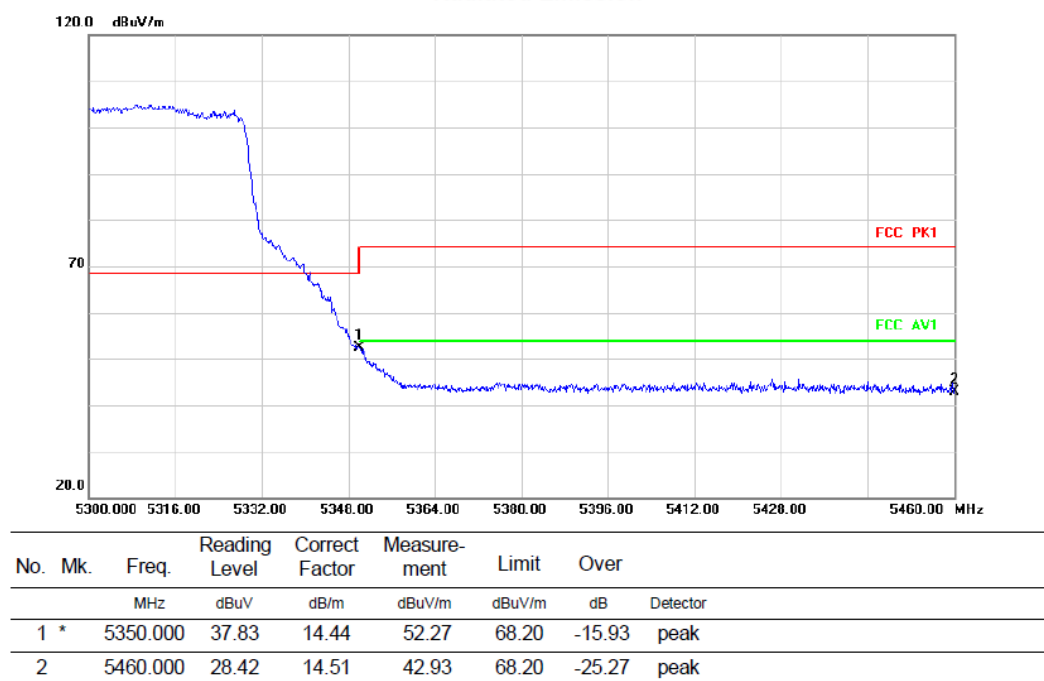
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	5350.000	36.20	14.44	50.64	68.20	-17.56 peak
2		5460.000	30.39	14.51	44.90	68.20	-23.30 peak

HORIZONTALA

Radiated Emission



Radiated Emission



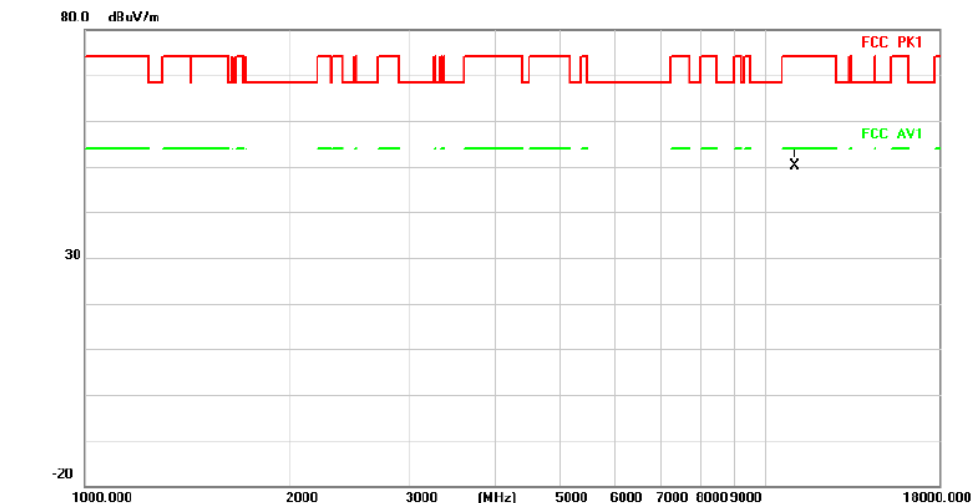
Above 1G (1GHz~18GHz)

Test mode: 11AX40MIMO

Test Channel:102

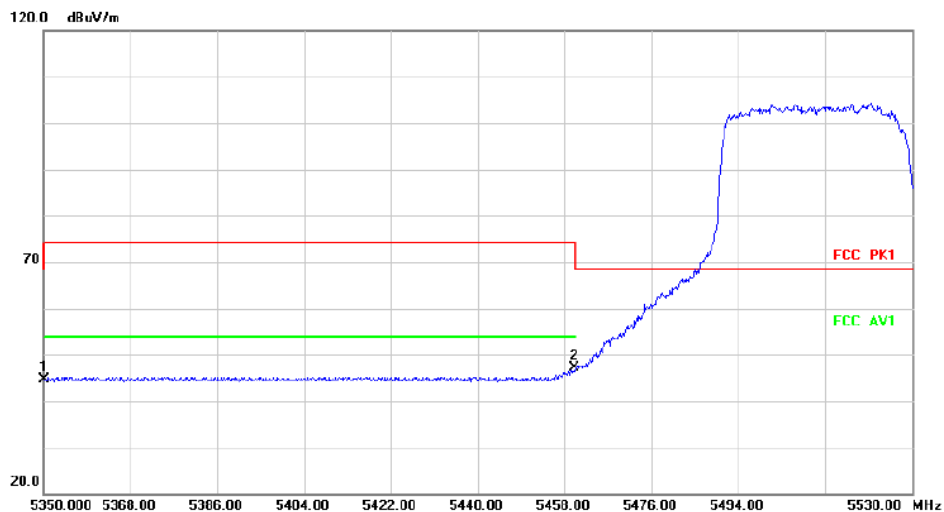
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1 *		11020.000	36.43	13.66	50.09	74.00	-23.91 peak

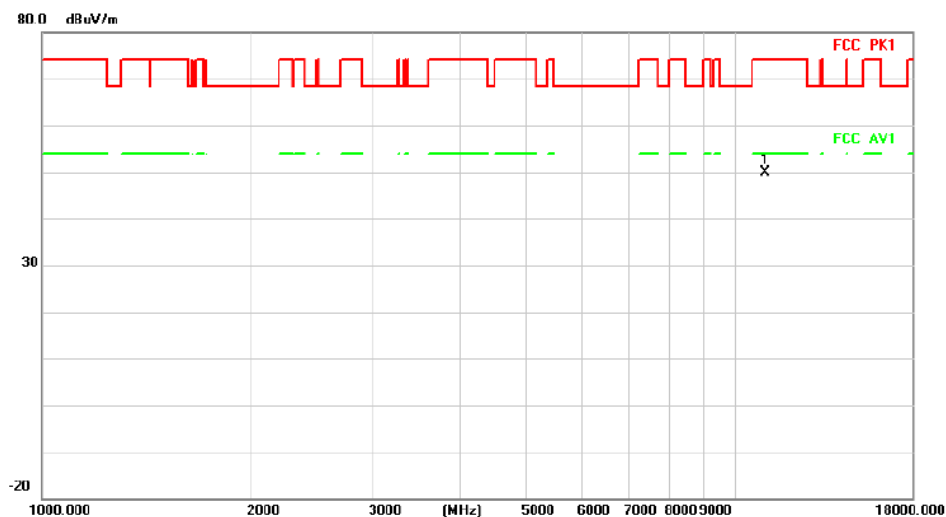
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		5350.000	30.12	14.44	44.56	68.20	-23.64 peak
2 *		5460.000	32.54	14.51	47.05	68.20	-21.15 peak

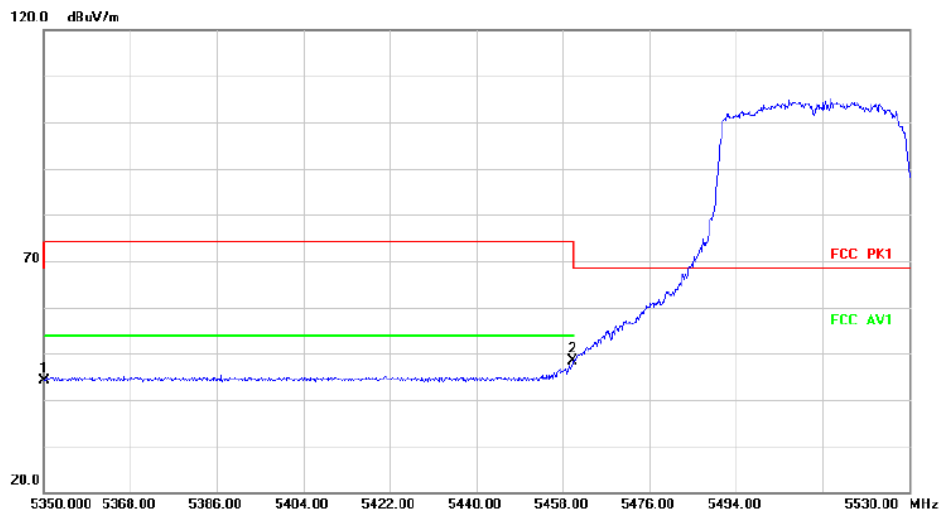
HORIZONTALA

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	11020.000	36.32	13.66	49.98	74.00	-24.02 peak

Radiated Emission



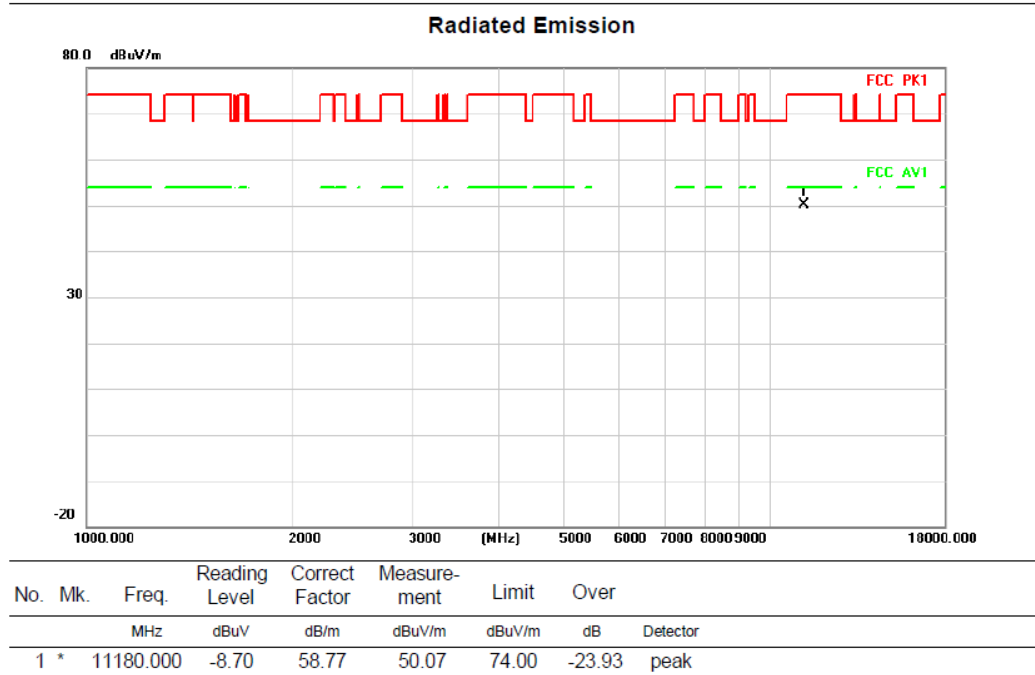
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1		5350.000	29.72	14.44	44.16	68.20	-24.04 peak
2	*	5460.000	33.88	14.51	48.39	68.20	-19.81 peak

Above 1G (1GHz~18GHz)

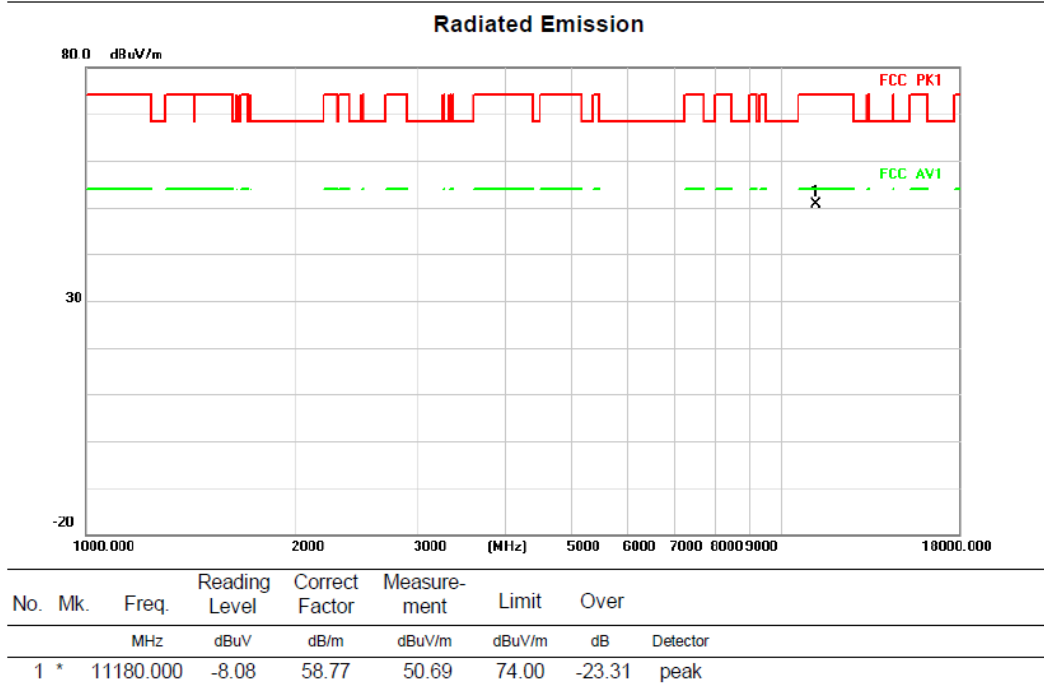
Test mode: 11AX40MIMO

Test Channel:118

VERTICAL



HORIZONTAL



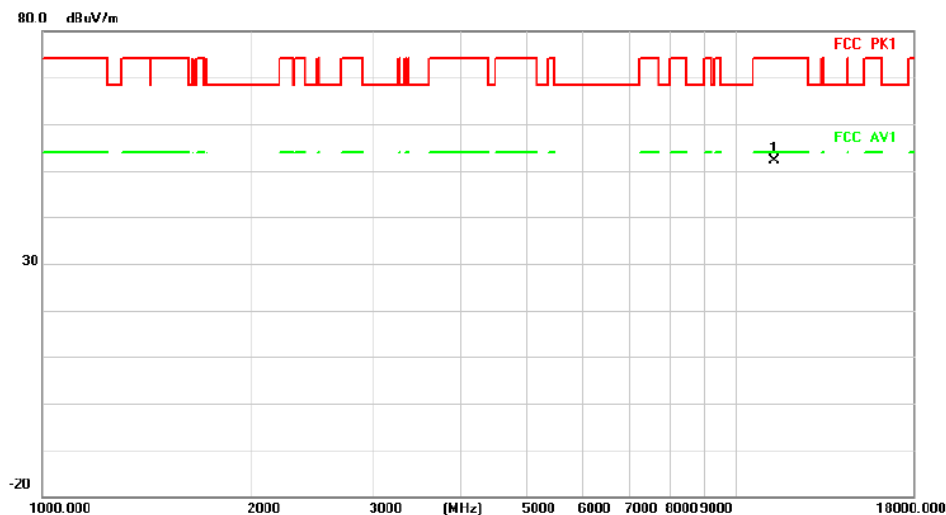
Above 1G (1GHz~18GHz)

Test mode: 11AX40MIMO

Test Channel:134

VERTICAL

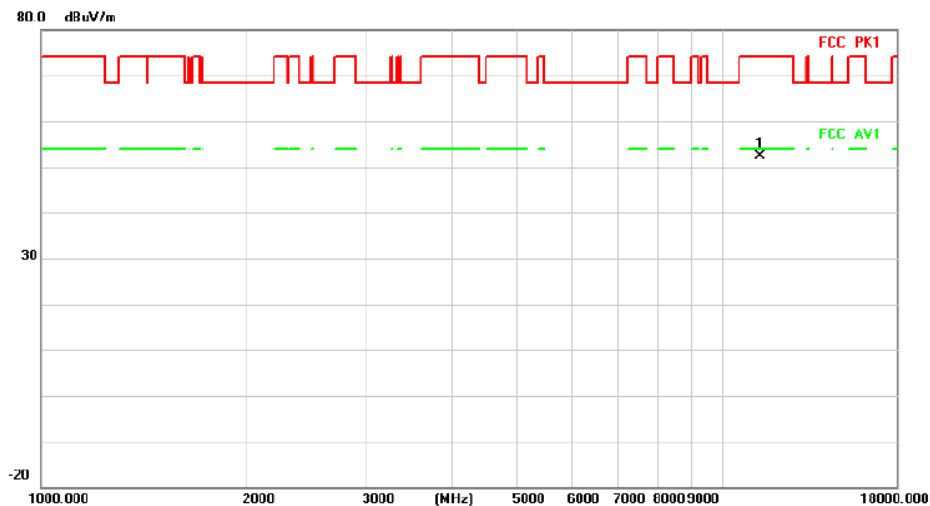
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	11340.000	-6.71	58.76	52.05	74.00	-21.95 peak

HORIZONTAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	11340.000	-6.49	58.76	52.27	74.00	-21.73 peak

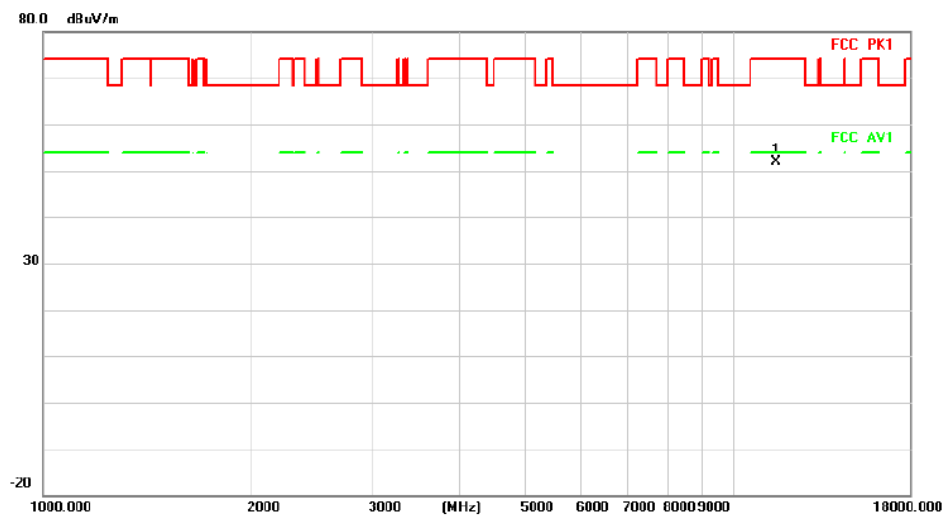
Above 1G (1GHz~18GHz)

Test mode: 11AX40MIMO

Test Channel:151

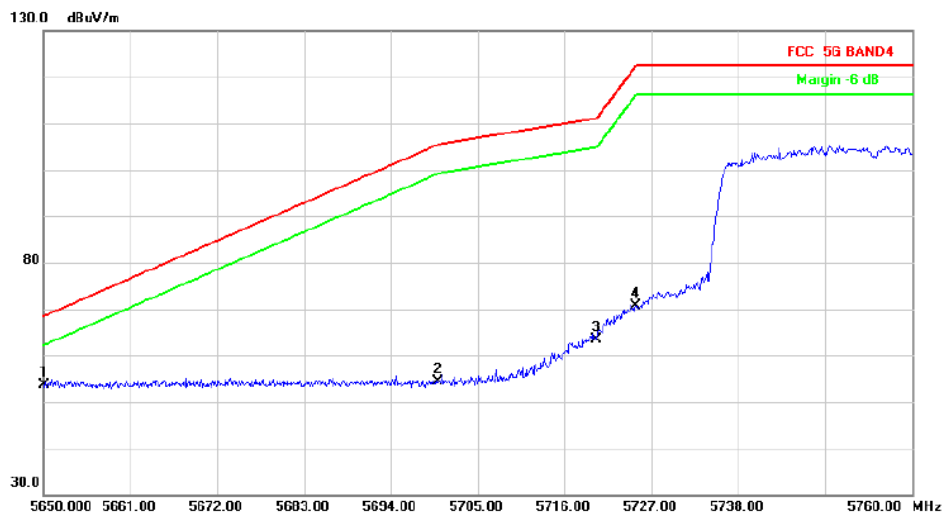
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	11510.000	-7.25	59.24	51.99	74.00	-22.01	peak

Radiated Emission



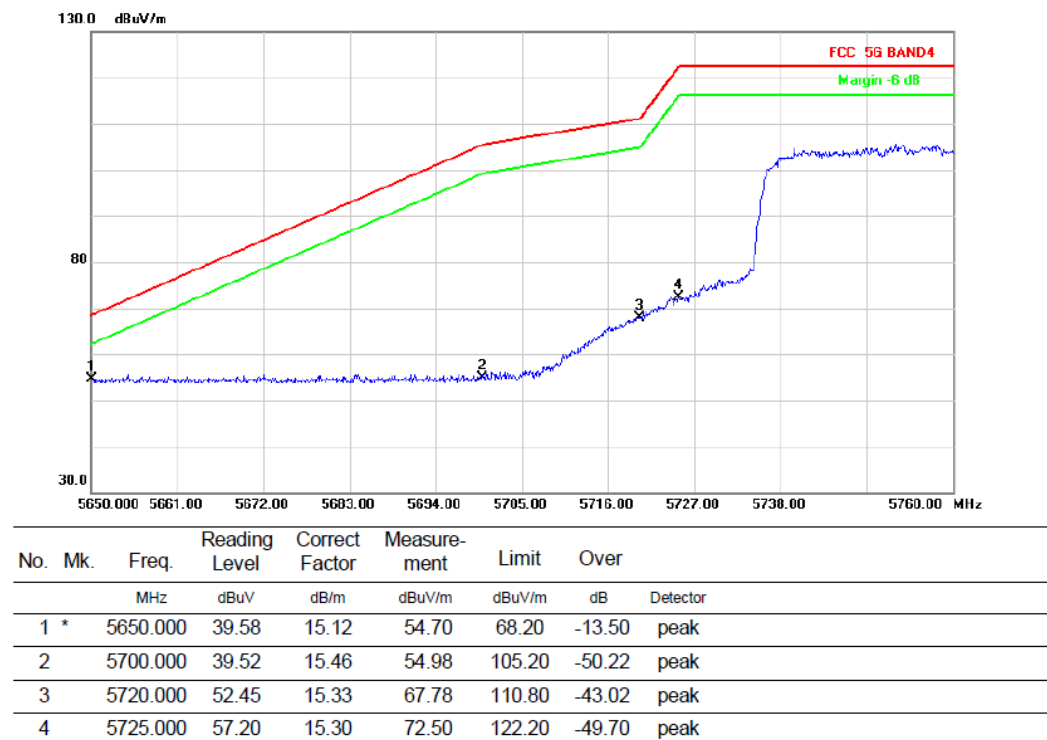
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	5650.000	38.42	15.12	53.54	68.20	-14.66	peak
2		5700.000	38.88	15.46	54.34	105.20	-50.86	peak
3		5720.000	47.93	15.33	63.26	110.80	-47.54	peak
4		5725.000	55.26	15.30	70.56	122.20	-51.64	peak

HORIZONTALA

Radiated Emission



Radiated Emission

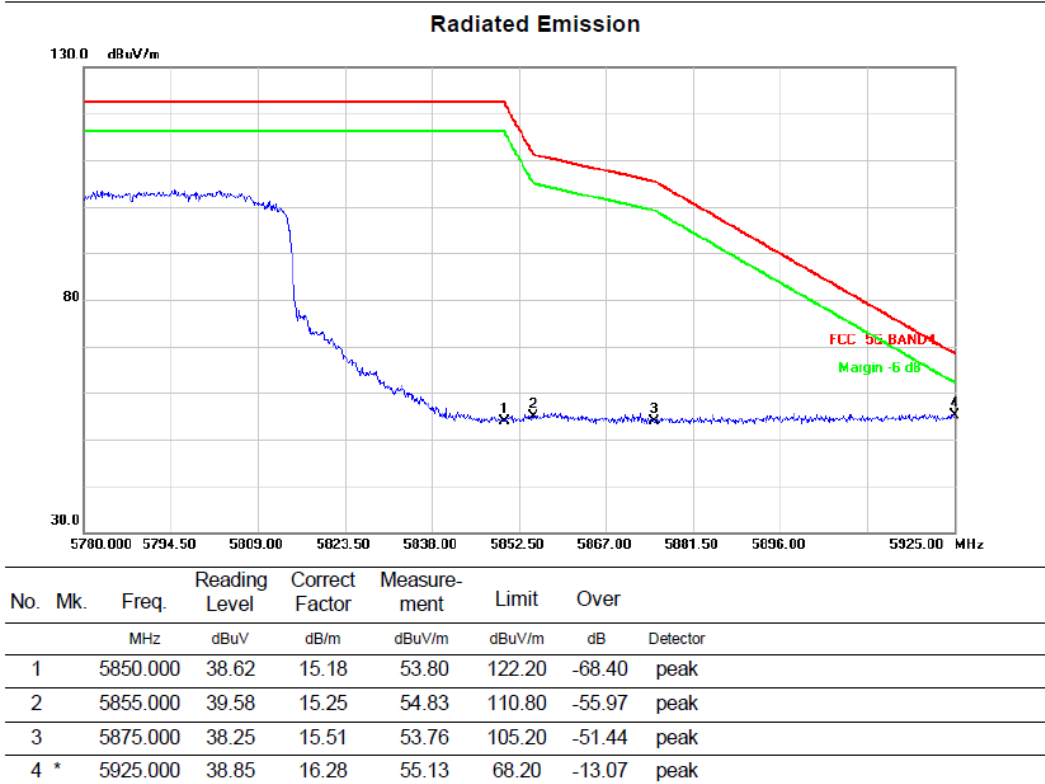
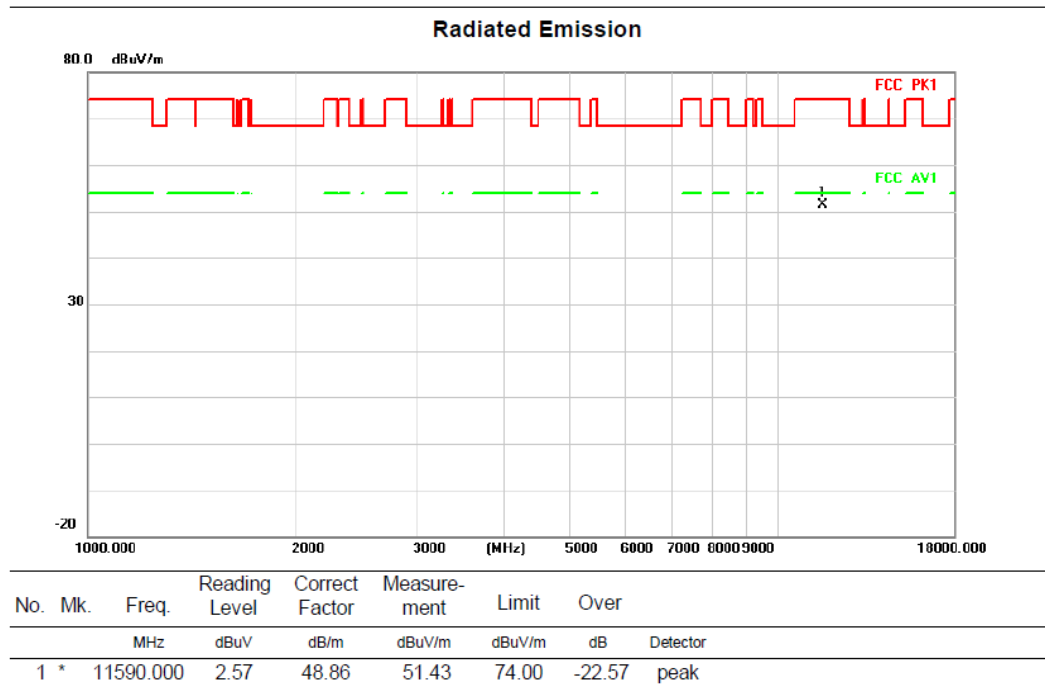


Above 1G (1GHz~18GHz)

Test mode: 11AX40MIMO

Test Channel:159

VERTICAL

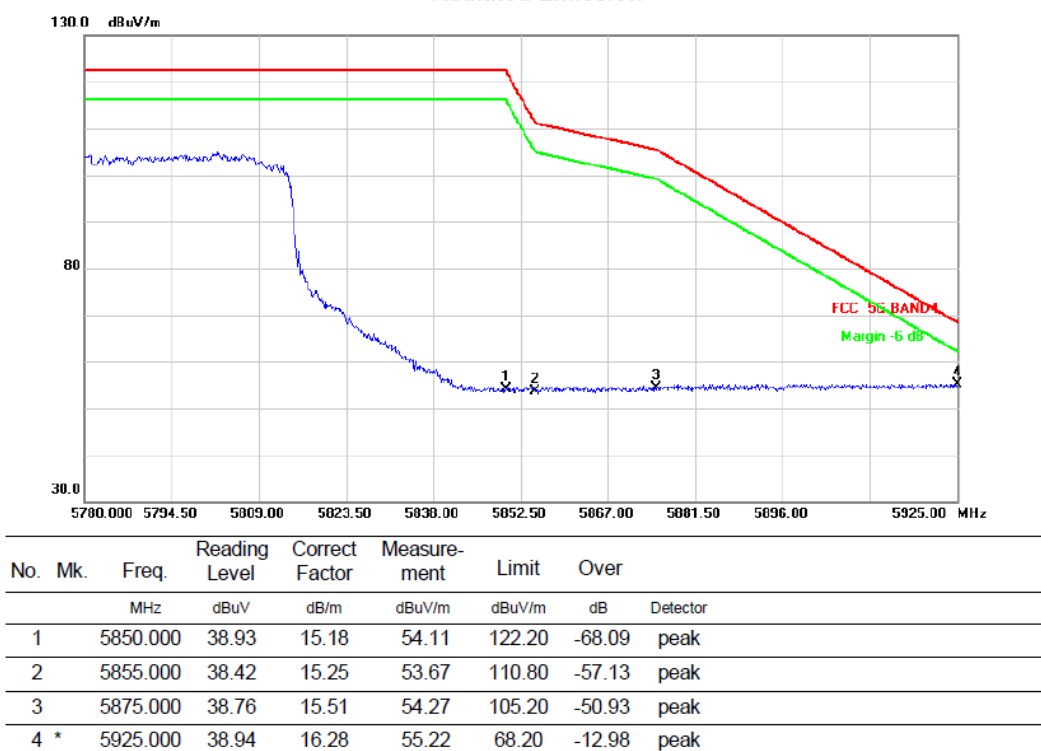


HORIZONTALA

Radiated Emission



Radiated Emission



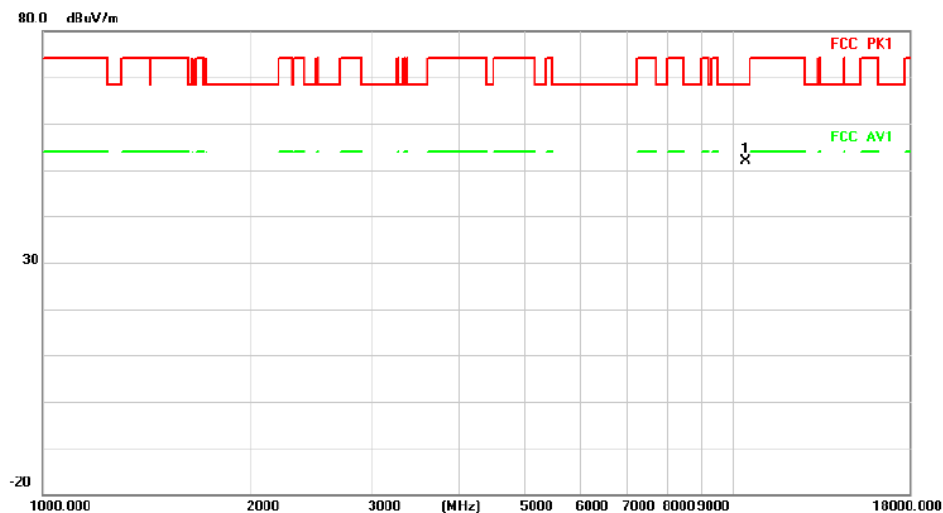
Above 1G (1GHz~18GHz)

Test mode: 11AX80MIMO

Test Channel:42

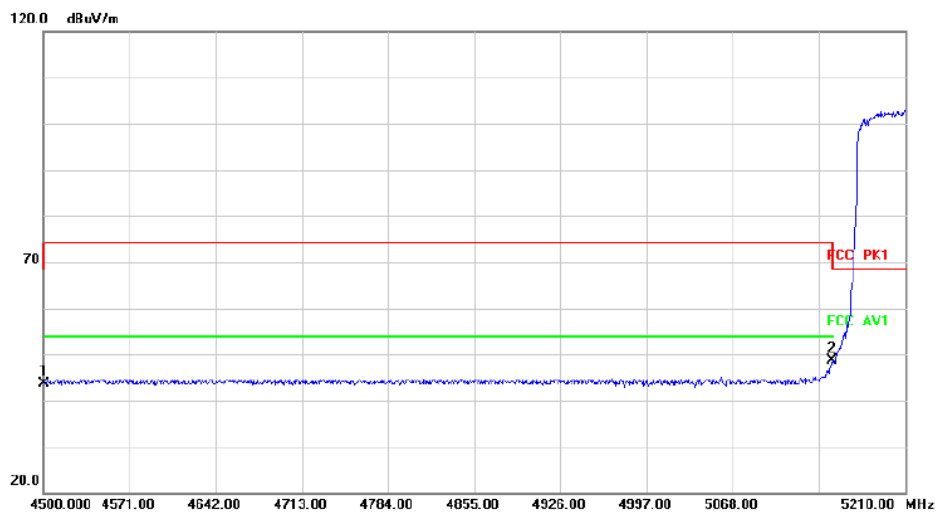
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	10420.000	35.26	16.54	51.80	68.20	-16.40 peak

Radiated Emission



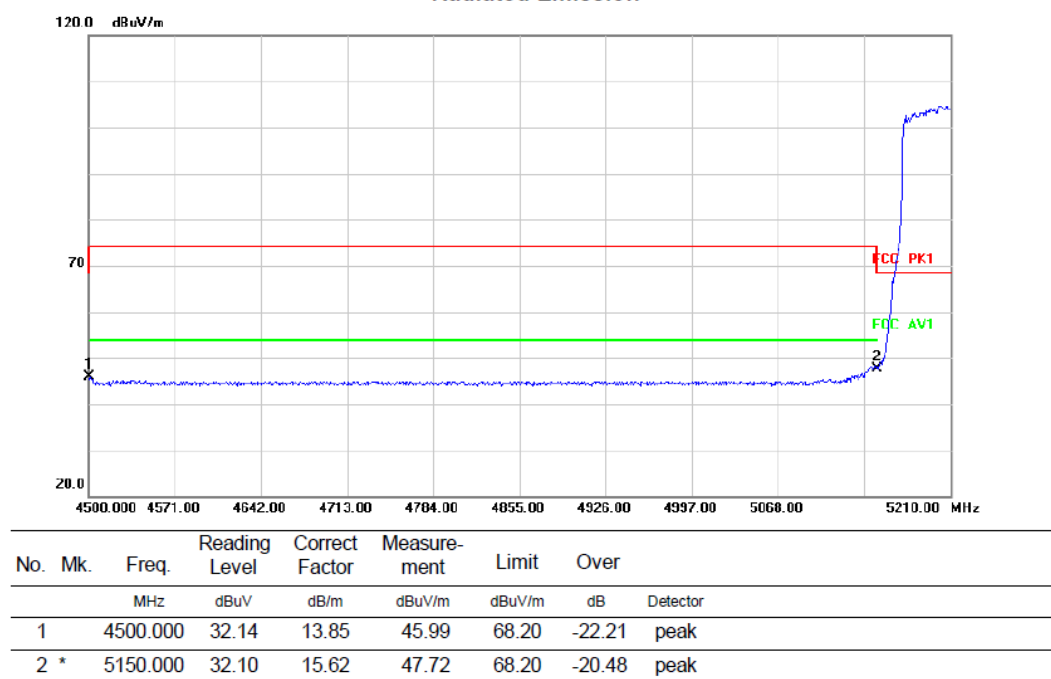
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1		4500.000	29.71	13.85	43.56	68.20	-24.64 peak
2	*	5150.000	33.13	15.62	48.75	68.20	-19.45 peak

HORIZONTALA

Radiated Emission



Radiated Emission



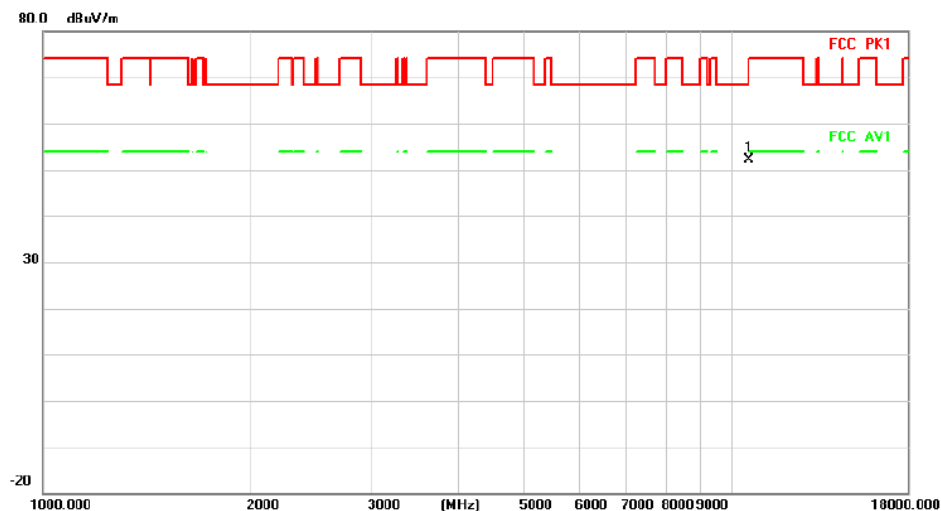
Above 1G (1GHz~18GHz)

Test mode: 11AX80MIMO

Test Channel:58

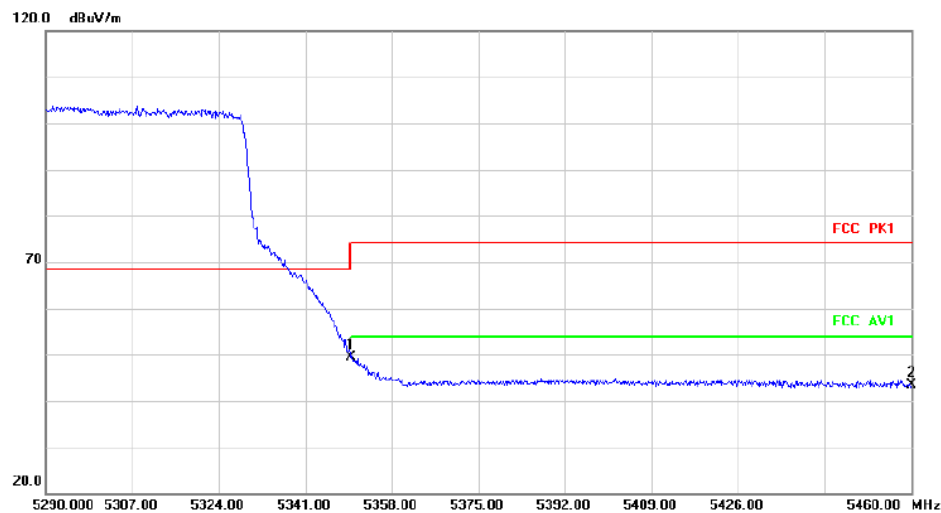
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	10580.000	36.27	15.83	52.10	68.20	-16.10 peak

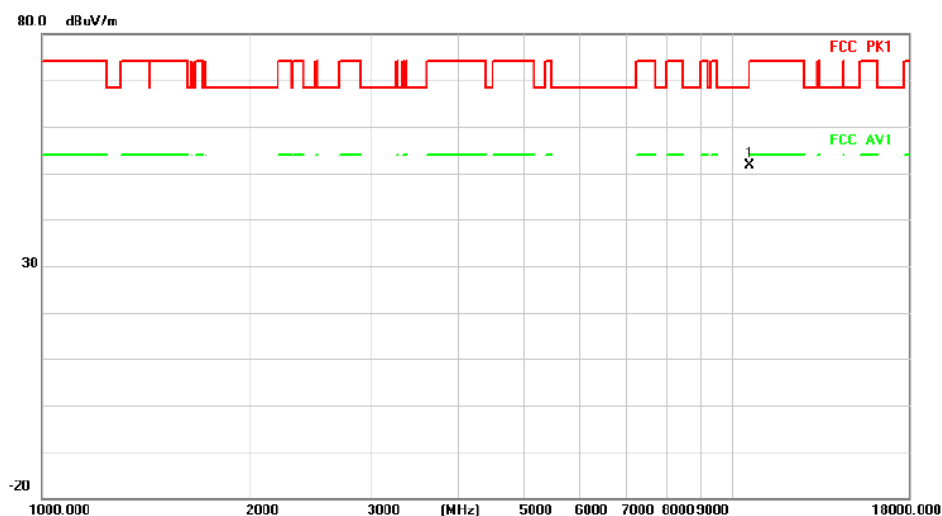
Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	5350.000	35.02	14.44	49.46	68.20	-18.74 peak
2		5460.000	28.87	14.51	43.38	68.20	-24.82 peak

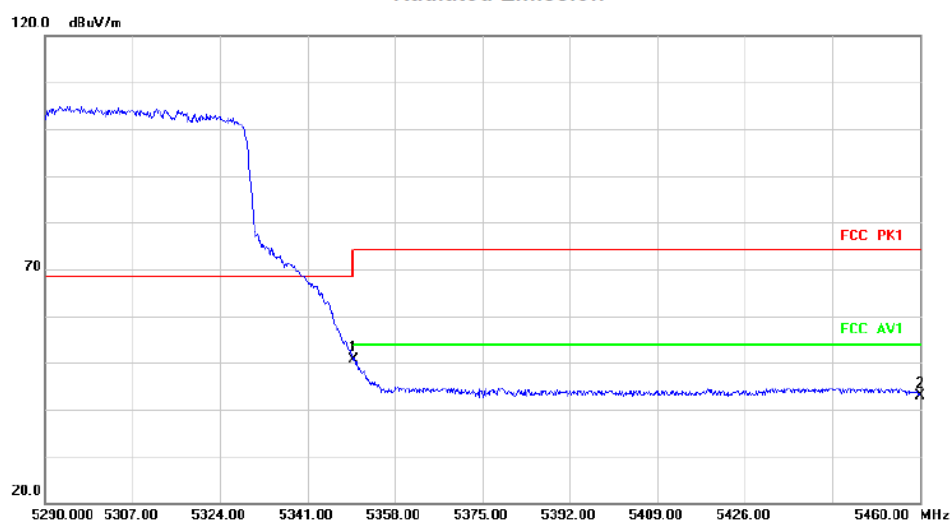
HORIZONTALA

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	10580.000	35.83	15.83	51.66	68.20	-16.54 peak

Radiated Emission



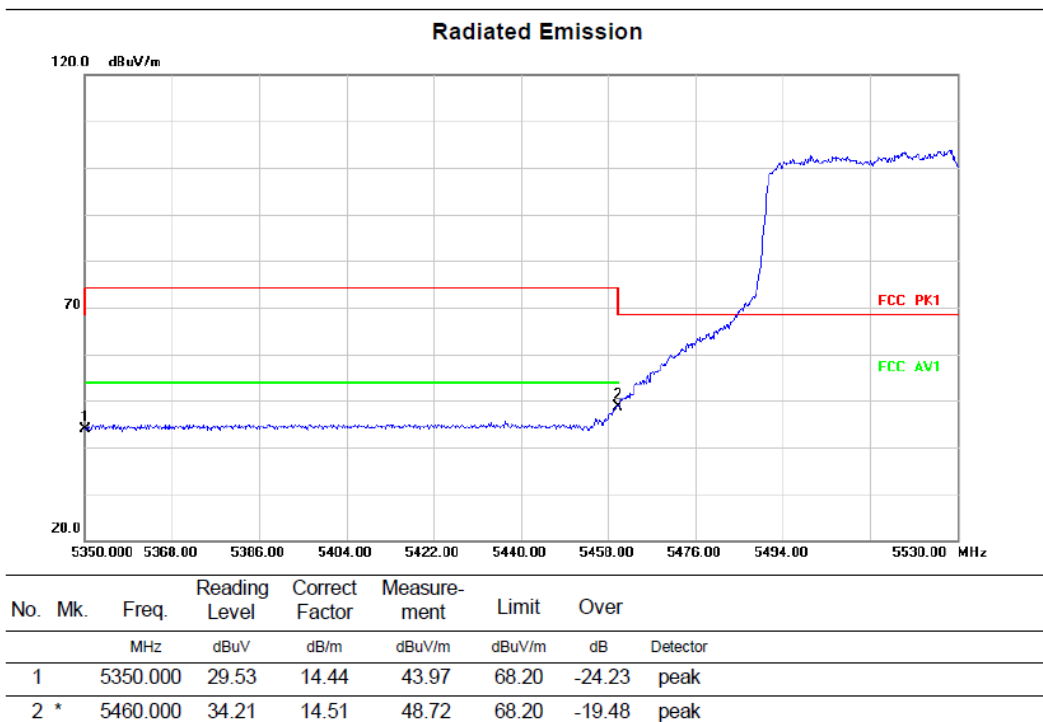
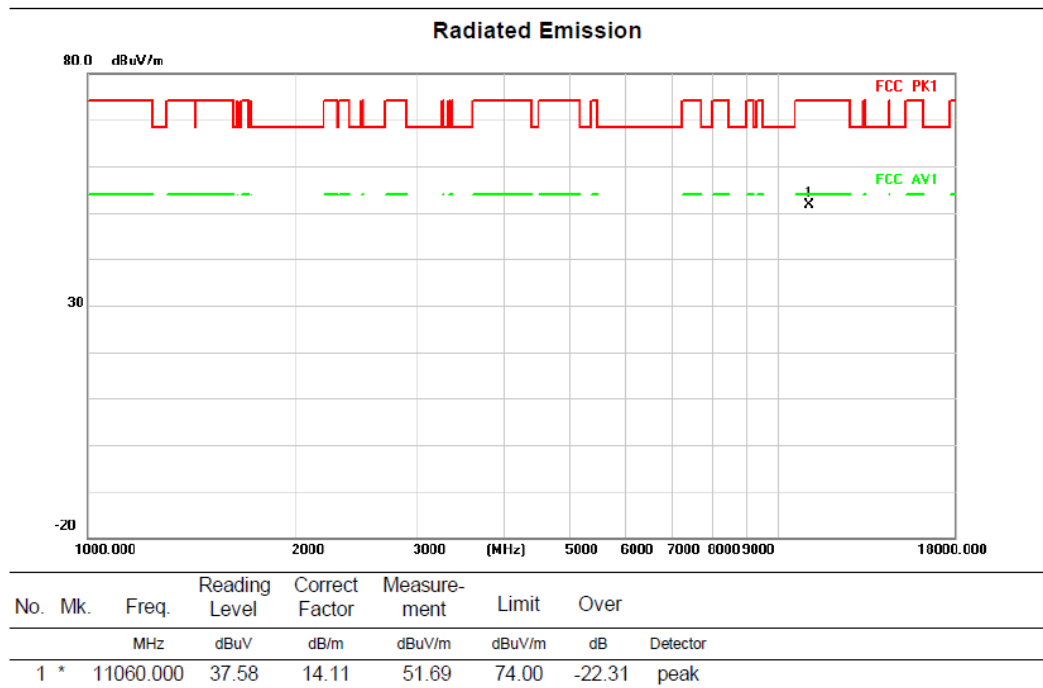
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	5350.000	36.14	14.44	50.58	68.20	-17.62 peak
2		5460.000	28.49	14.51	43.00	68.20	-25.20 peak

Above 1G (1GHz~18GHz)

Test mode: 11AX80MIMO

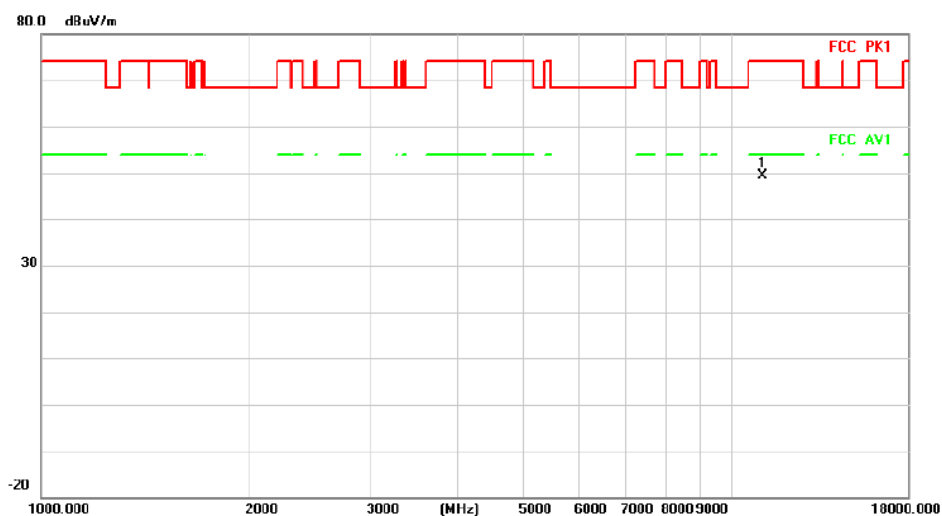
Test Channel:106

VERTICAL



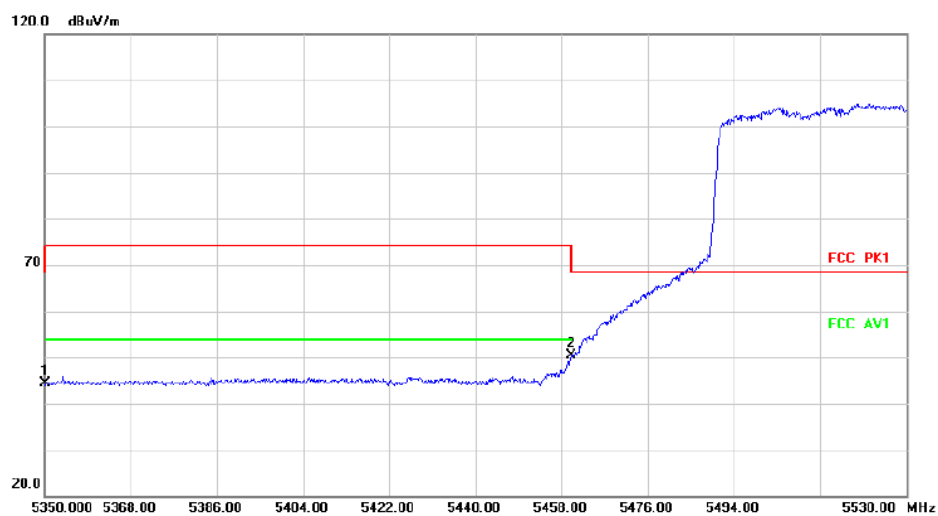
HORIZONTALA

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	11060.000	35.31	14.11	49.42	74.00	-24.58 peak

Radiated Emission



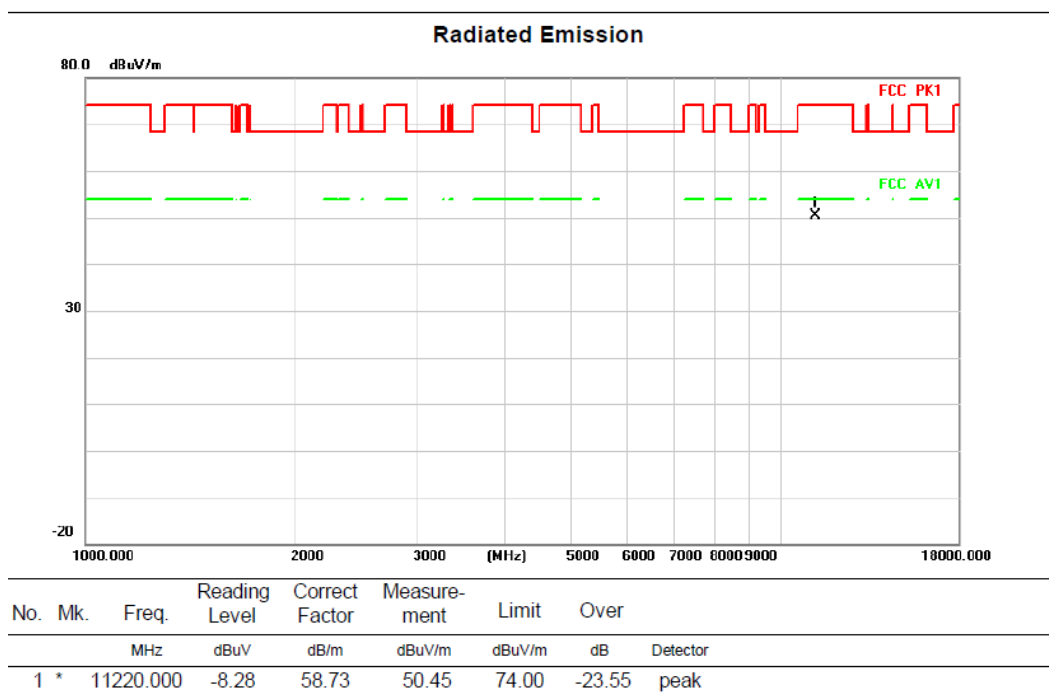
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1		5350.000	29.87	14.44	44.31	68.20	-23.89 peak
2	*	5460.000	35.99	14.51	50.50	68.20	-17.70 peak

Above 1G (1GHz~18GHz)

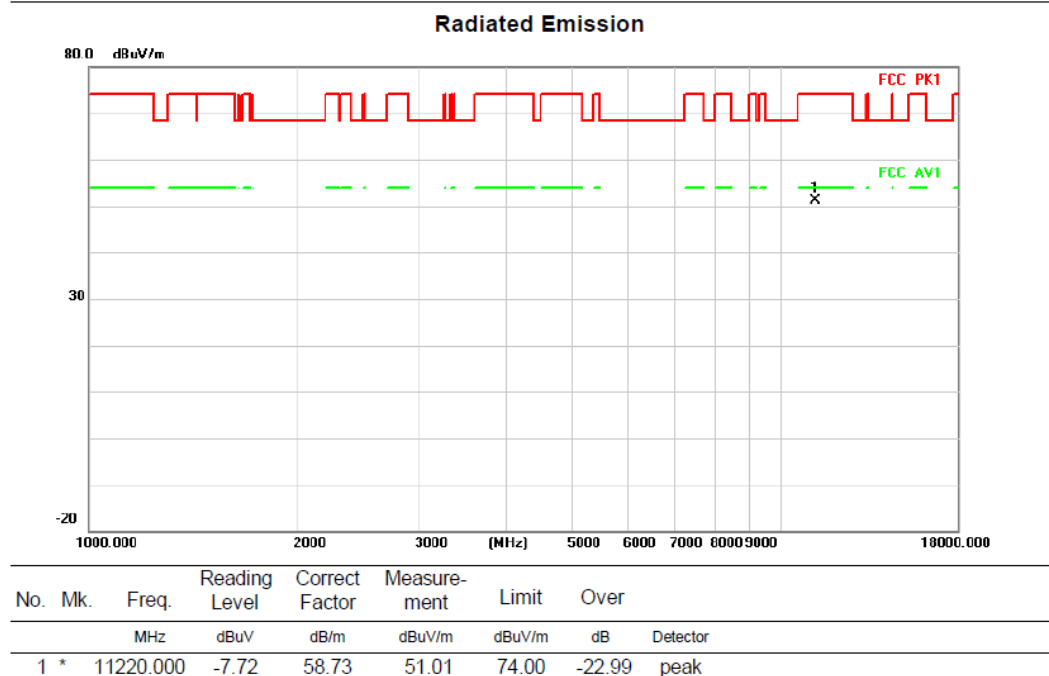
Test mode: 11AX80MIMO

Test Channel:122

VERTICAL



HORIZONTAL

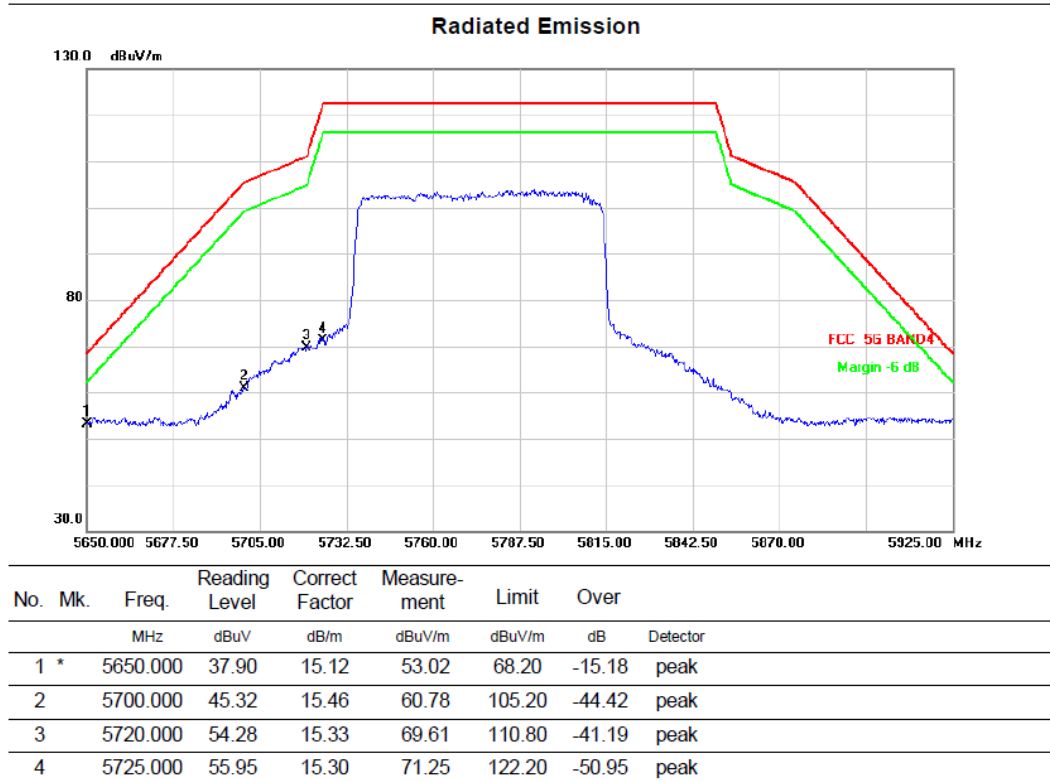
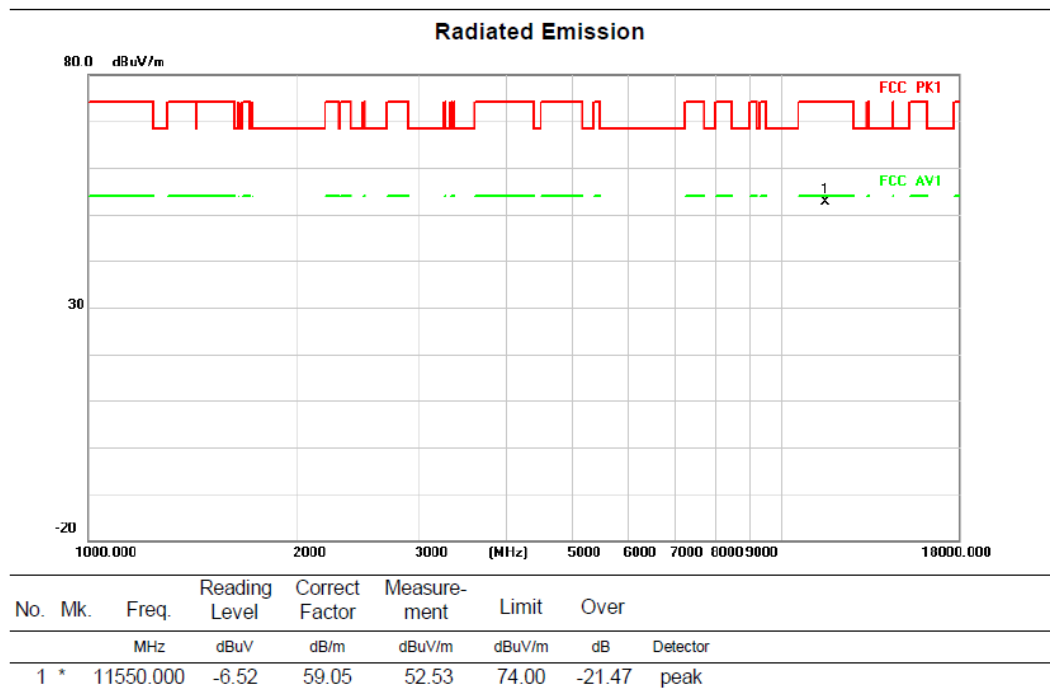


Above 1G (1GHz~18GHz)

Test mode: 11AX80MIMO

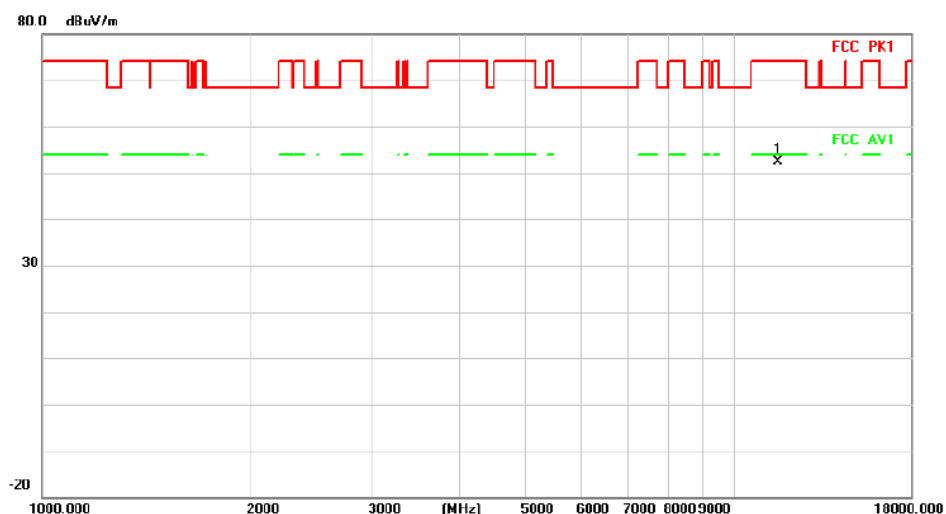
Test Channel:155

VERTICAL



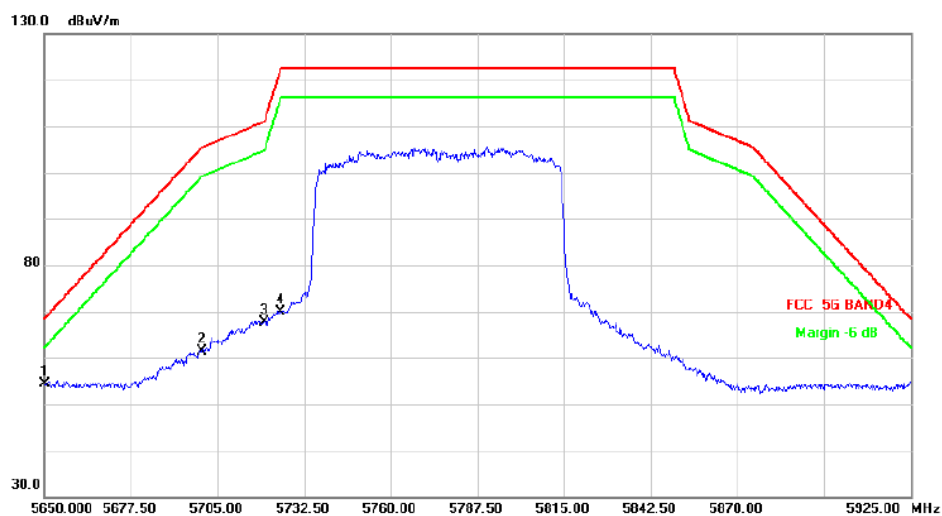
HORIZONTALA

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	11550.000	-6.63	59.05	52.42	74.00	-21.58	peak

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	5650.000	39.17	15.12	54.29	68.20	-13.91	peak
2		5700.000	45.90	15.46	61.36	105.20	-43.84	peak
3		5720.000	52.37	15.33	67.70	110.80	-43.10	peak
4		5725.000	54.61	15.30	69.91	122.20	-52.29	peak

Above 1G (1GHz~18GHz)

Test mode: 11AX160MIMO

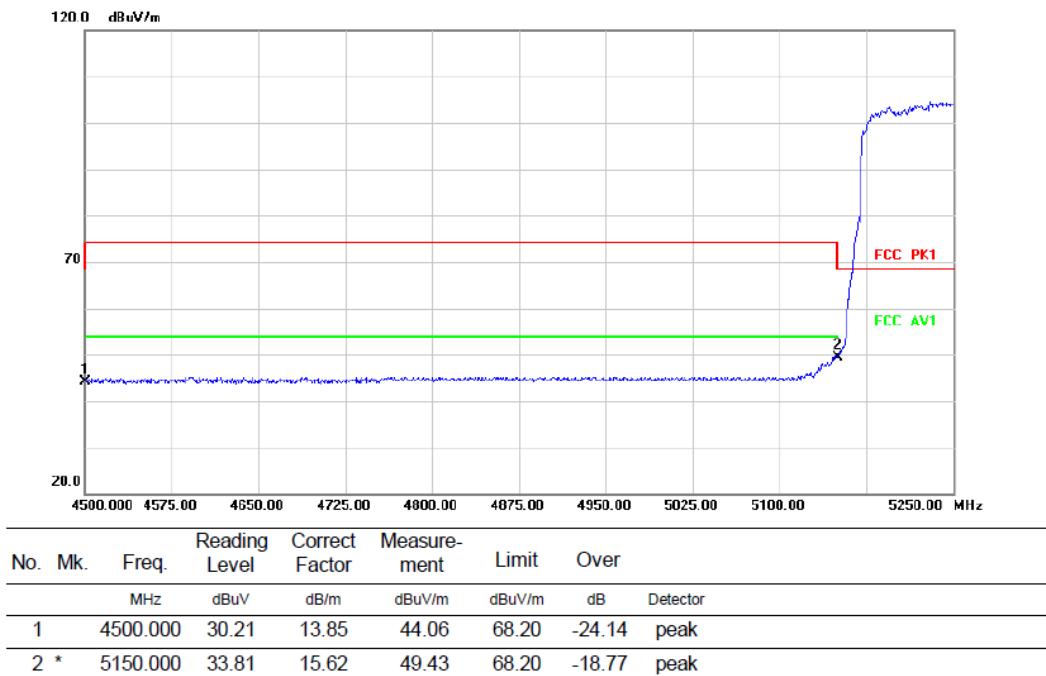
Test Channel:50

VERTICAL

Radiated Emission

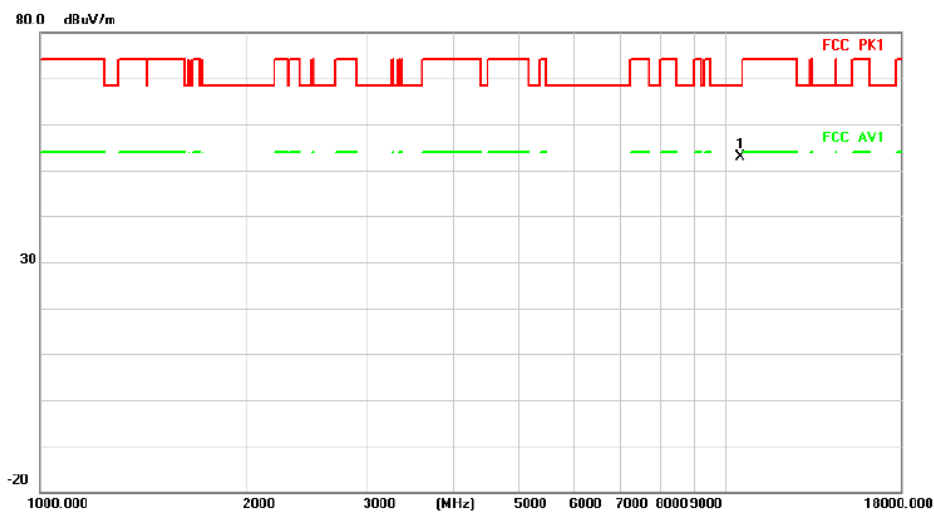


Radiated Emission



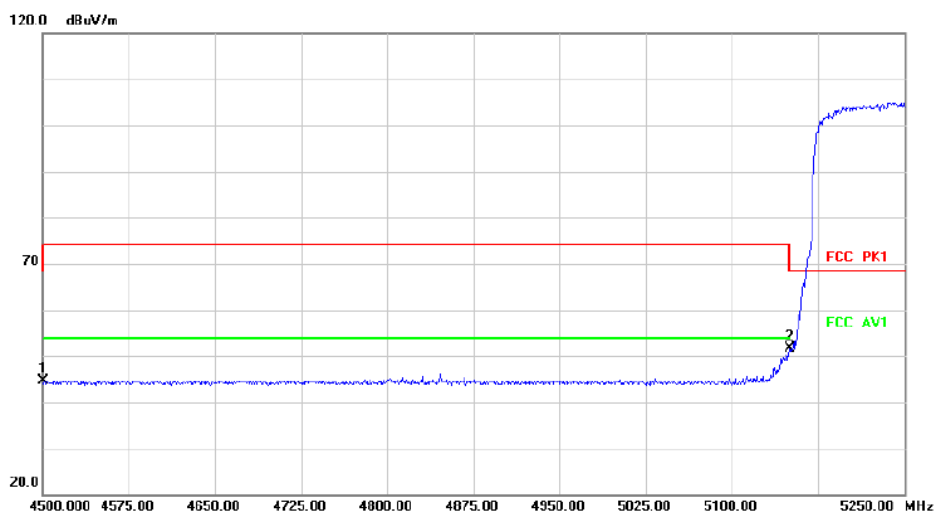
HORIZONTALA

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	*	10500.000	36.47	16.46	52.93	68.20	-15.27 peak

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1		4500.000	30.86	13.85	44.71	68.20	-23.49 peak
2	*	5150.000	36.04	15.62	51.66	68.20	-16.54 peak

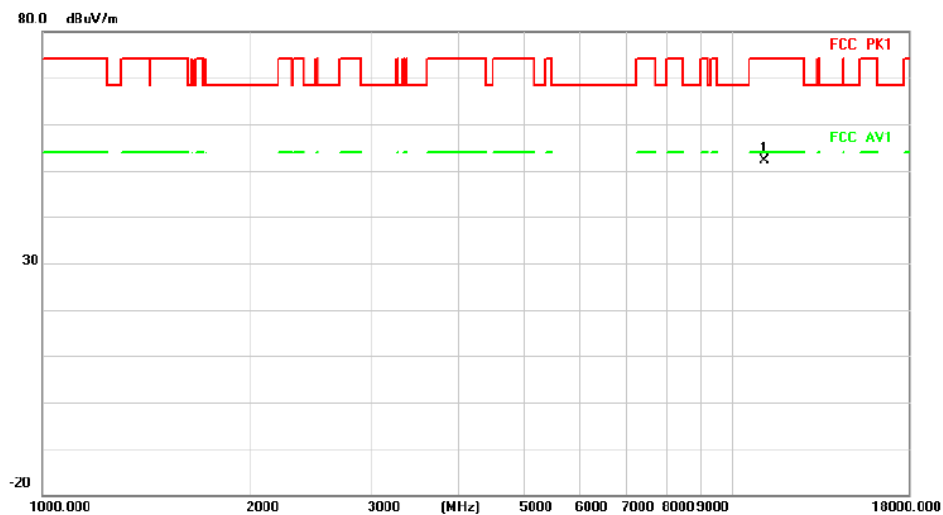
Above 1G (1GHz~18GHz)

Test mode: 11AX160MIMO

Test Channel:114

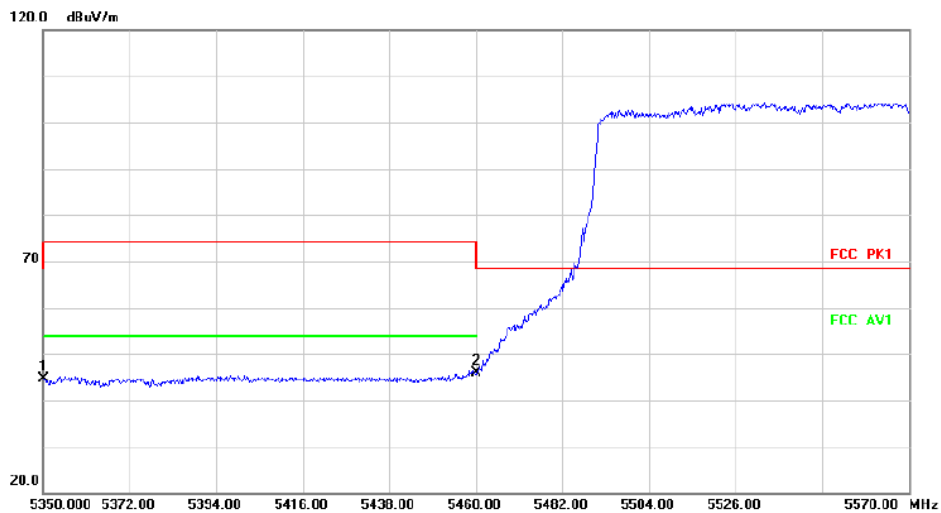
VERTICAL

Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 *		11140.000	-6.52	58.77	52.25	74.00	-21.75 peak

Radiated Emission



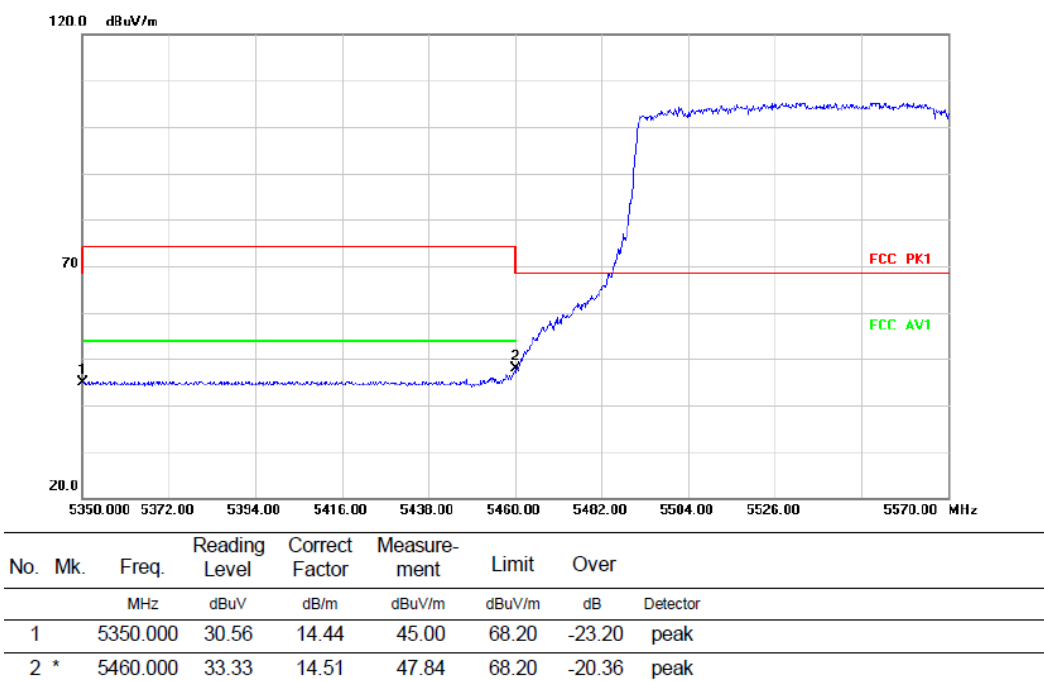
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1		5350.000	30.22	14.44	44.66	68.20	-23.54 peak
2 *		5460.000	31.44	14.51	45.95	68.20	-22.25 peak

HORIZONTALA

Radiated Emission



Radiated Emission



The high frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit line was not recorded in this report.

3.3 Spectrum Bandwidth

3.3.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	26 dB Bandwidth	-	5150-5250
	26 dB Bandwidth	-	5250-5350
15.407(e)	26 dB Bandwidth	-	5470-5725
	26 dB Bandwidth	-	5725-5850
	6 dB Bandwidth	Minimum 500 kHz	5725-5850

3.3.2 Test Procedure

Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

a) The EUT was directly connected to the tonscond test system and antenna output port as show in the block diagram below.

b) the spectrum analyser is set as follow:

For 26 dB Bandwidth

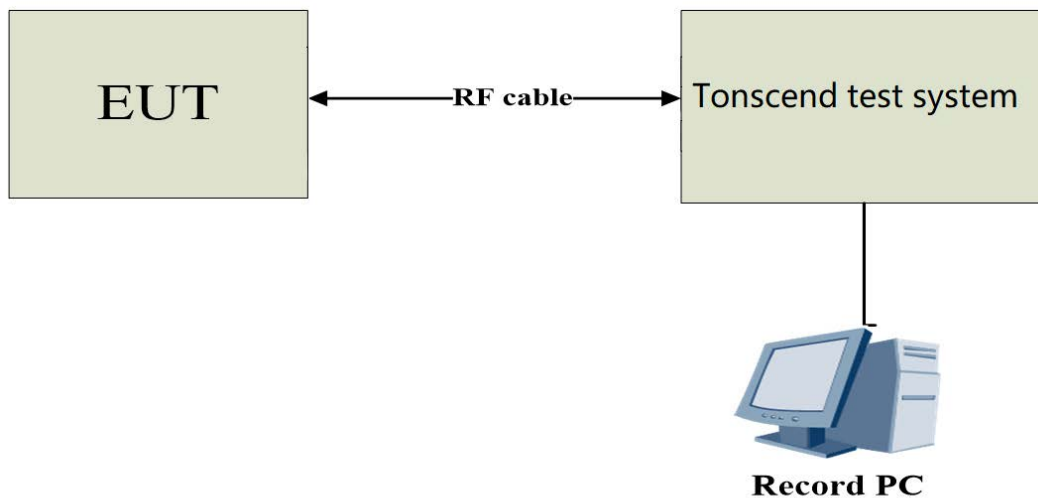
Centre Frequency	The centre frequency of the channel under test
RBW	$\geq 1\% \times \text{Nominal Channel Bandwidth}$
VBW	$\geq 3 \times \text{RBW}$
Frequency span	$2 \times \text{Nominal Channel Bandwidth}$
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

For 6 dB Bandwidth

Centre Frequency	The centre frequency of the channel under test
RBW	100 kHz
VBW	300 kHz
Frequency span	$2 \times \text{Nominal Channel Bandwidth}$
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

- c) Wait for the trace to stabilize then find the peak value of the trace and place the analyser marker on this peak.
- d) Use the -26/-6dB bandwidth function of the spectrum analyser to measure the -26/-6dB Bandwidth of the EUT. This value shall be recorded.
- e) Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

3.3.3 Test Setup



3.3.4 Test Result

3.3.5.1 26 dB Bandwidth

Test result: PASS

Note: For test data, please refer to the report RFBARR-WTW-P21030485A-5.

3.3.5.2 Occupied channel bandwidth

Test result: PASS

Note: For test data, please refer to the report RFBARR-WTW-P21030485A-5.

3.3.5.3 Min emission bandwidth

Test result: PASS

Note: For test data, please refer to the report RFBARR-WTW-P21030485A-5.

3.4 Conducted Output Power

3.4.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Conducted Output Power	Master device: 1 Watt (30 dBm) Client device: 250 mW (23.98 dBm)	5150-5250
		250 mW (23.98 dBm)	5250-5350
		250 mW (23.98 dBm)	5470-5725
		1 Watt (30dBm)	5725-5850

Note:

a. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

b. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26dB Bandwidth in megahertz.

3.4.2 Test Procedure

Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

a) The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.

b) Test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

3.4.3 Test Setup



3.4.4 The Result

Test result: PASS

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11A-CDD	Ant1	5180	17.04	≤23.19	PASS
	Ant2	5180	16.46	≤23.19	PASS
	total	5180	19.77	≤23.19	PASS
	Ant1	5200	15.79	≤23.19	PASS
	Ant2	5200	15.39	≤23.19	PASS
	total	5200	18.60	≤23.19	PASS
	Ant1	5240	17.17	≤23.19	PASS
	Ant2	5240	16.61	≤23.19	PASS
	total	5240	19.91	≤23.19	PASS
	Ant1	5260	16.06	≤23.19	PASS
	Ant2	5260	15.50	≤23.19	PASS
	total	5260	18.80	≤23.19	PASS
	Ant1	5280	17.12	≤23.19	PASS
	Ant2	5280	16.65	≤23.19	PASS
	total	5280	19.90	≤23.19	PASS
	Ant1	5320	16.04	≤23.19	PASS
	Ant2	5320	15.59	≤23.19	PASS
	total	5320	18.83	≤23.19	PASS
	Ant1	5500	17.06	≤23.19	PASS
	Ant2	5500	16.55	≤23.19	PASS
	total	5500	19.82	≤23.19	PASS
	Ant1	5580	17.00	≤23.19	PASS
	Ant2	5580	16.51	≤23.19	PASS
	total	5580	19.77	≤23.19	PASS
	Ant1	5700	17.03	≤23.19	PASS
	Ant2	5700	16.56	≤23.19	PASS
	total	5700	19.81	≤23.19	PASS
	Ant1	5745	16.02	≤29.19	PASS
	Ant2	5745	15.37	≤29.19	PASS
	total	5745	18.72	≤29.19	PASS
	Ant1	5785	17.19	≤29.19	PASS
	Ant2	5785	16.75	≤29.19	PASS
	total	5785	19.98	≤29.19	PASS
	Ant1	5825	17.14	≤29.19	PASS
	Ant2	5825	16.61	≤29.19	PASS
	total	5825	19.90	≤29.19	PASS

11N20MIMO	Ant1	5180	17.16	≤23.19	PASS
	Ant2	5180	16.58	≤23.19	PASS
	total	5180	19.89	≤23.19	PASS
	Ant1	5200	16.00	≤23.19	PASS
	Ant2	5200	15.55	≤23.19	PASS
	total	5200	18.79	≤23.19	PASS
	Ant1	5240	17.17	≤23.19	PASS
	Ant2	5240	16.77	≤23.19	PASS
	total	5240	19.99	≤23.19	PASS
	Ant1	5260	17.10	≤23.19	PASS
	Ant2	5260	16.52	≤23.19	PASS
	total	5260	19.83	≤23.19	PASS
	Ant1	5280	17.17	≤23.19	PASS
	Ant2	5280	16.71	≤23.19	PASS
	total	5280	19.95	≤23.19	PASS
	Ant1	5320	16.11	≤23.19	PASS
	Ant2	5320	15.66	≤23.19	PASS
	total	5320	18.90	≤23.19	PASS
	Ant1	5500	16.91	≤23.19	PASS
	Ant2	5500	16.54	≤23.19	PASS
	total	5500	19.74	≤23.19	PASS
	Ant1	5580	17.02	≤23.19	PASS
	Ant2	5580	16.53	≤23.19	PASS
	total	5580	19.79	≤23.19	PASS
	Ant1	5700	17.08	≤23.19	PASS
	Ant2	5700	16.69	≤23.19	PASS
	total	5700	19.90	≤23.19	PASS
	Ant1	5745	15.94	≤29.19	PASS
	Ant2	5745	15.45	≤29.19	PASS
	total	5745	18.71	≤29.19	PASS
	Ant1	5785	17.11	≤29.19	PASS
	Ant2	5785	16.67	≤29.19	PASS
	total	5785	19.91	≤29.19	PASS
	Ant1	5825	15.86	≤29.19	PASS
	Ant2	5825	15.45	≤29.19	PASS
	total	5825	18.67	≤29.19	PASS
11N40MIMO	Ant1	5190	16.95	≤23.19	PASS
	Ant2	5190	16.43	≤23.19	PASS
	total	5190	19.71	≤23.19	PASS
	Ant1	5230	15.97	≤23.19	PASS
	Ant2	5230	15.49	≤23.19	PASS
	total	5230	18.75	≤23.19	PASS

	Ant1	5270	17.07	≤23.19	PASS
	Ant2	5270	16.75	≤23.19	PASS
	total	5270	19.92	≤23.19	PASS
	Ant1	5310	16.85	≤23.19	PASS
	Ant2	5310	16.52	≤23.19	PASS
	total	5310	19.70	≤23.19	PASS
	Ant1	5510	17.18	≤23.19	PASS
	Ant2	5510	16.52	≤23.19	PASS
	total	5510	19.87	≤23.19	PASS
	Ant1	5550	15.85	≤23.19	PASS
	Ant2	5550	15.48	≤23.19	PASS
	total	5550	18.68	≤23.19	PASS
	Ant1	5670	16.65	≤23.19	PASS
	Ant2	5670	16.69	≤23.19	PASS
	total	5670	19.68	≤23.19	PASS
	Ant1	5755	16.96	≤29.19	PASS
	Ant2	5755	16.48	≤29.19	PASS
	total	5755	19.74	≤29.19	PASS
	Ant1	5795	16.98	≤29.19	PASS
	Ant2	5795	16.54	≤29.19	PASS
	total	5795	19.78	≤29.19	PASS
11AC20MIMO	Ant1	5180	17.07	≤23.19	PASS
	Ant2	5180	16.58	≤23.19	PASS
	total	5180	19.84	≤23.19	PASS
	Ant1	5200	16.21	≤23.19	PASS
	Ant2	5200	15.76	≤23.19	PASS
	total	5200	19.00	≤23.19	PASS
	Ant1	5240	16.94	≤23.19	PASS
	Ant2	5240	16.65	≤23.19	PASS
	total	5240	19.81	≤23.19	PASS
	Ant1	5260	16.99	≤23.19	PASS
	Ant2	5260	16.59	≤23.19	PASS
	total	5260	19.81	≤23.19	PASS
	Ant1	5280	17.01	≤23.19	PASS
	Ant2	5280	16.53	≤23.19	PASS
	total	5280	19.78	≤23.19	PASS
	Ant1	5320	16.04	≤23.19	PASS
	Ant2	5320	15.66	≤23.19	PASS
	total	5320	18.86	≤23.19	PASS
	Ant1	5500	16.93	≤23.19	PASS
	Ant2	5500	16.87	≤23.19	PASS
	total	5500	19.91	≤23.19	PASS

	Ant1	5580	17.02	≤23.19	PASS
	Ant2	5580	16.42	≤23.19	PASS
	total	5580	19.74	≤23.19	PASS
	Ant1	5700	15.99	≤23.19	PASS
	Ant2	5700	15.48	≤23.19	PASS
	total	5700	18.75	≤23.19	PASS
	Ant1	5745	17.08	≤29.19	PASS
	Ant2	5745	16.50	≤29.19	PASS
	total	5745	19.81	≤29.19	PASS
	Ant1	5785	16.97	≤29.19	PASS
	Ant2	5785	16.62	≤29.19	PASS
	total	5785	19.81	≤29.19	PASS
	Ant1	5825	16.95	≤29.19	PASS
	Ant2	5825	16.32	≤29.19	PASS
	total	5825	19.66	≤29.19	PASS
11AC40MIMO	Ant1	5190	17.23	≤23.19	PASS
	Ant2	5190	16.70	≤23.19	PASS
	total	5190	19.98	≤23.19	PASS
	Ant1	5230	16.19	≤23.19	PASS
	Ant2	5230	15.59	≤23.19	PASS
	total	5230	18.91	≤23.19	PASS
	Ant1	5270	16.96	≤23.19	PASS
	Ant2	5270	16.43	≤23.19	PASS
	total	5270	19.71	≤23.19	PASS
	Ant1	5310	17.14	≤23.19	PASS
	Ant2	5310	16.53	≤23.19	PASS
	total	5310	19.86	≤23.19	PASS
	Ant1	5510	16.77	≤23.19	PASS
	Ant2	5510	16.44	≤23.19	PASS
	total	5510	19.62	≤23.19	PASS
	Ant1	5550	15.95	≤23.19	PASS
	Ant2	5550	15.47	≤23.19	PASS
	total	5550	18.73	≤23.19	PASS
	Ant1	5670	16.80	≤23.19	PASS
	Ant2	5670	16.67	≤23.19	PASS
	total	5670	19.75	≤23.19	PASS
	Ant1	5755	16.92	≤29.19	PASS
	Ant2	5755	16.34	≤29.19	PASS
	total	5755	19.65	≤29.19	PASS
	Ant1	5795	16.93	≤29.19	PASS
	Ant2	5795	16.58	≤29.19	PASS
	total	5795	19.77	≤29.19	PASS

11AC80MIMO	Ant1	5210	13.88	≤ 23.19	PASS
	Ant2	5210	13.41	≤ 23.19	PASS
	total	5210	16.66	≤ 23.19	PASS
	Ant1	5290	15.06	≤ 23.19	PASS
	Ant2	5290	14.57	≤ 23.19	PASS
	total	5290	17.83	≤ 23.19	PASS
	Ant1	5530	17.06	≤ 23.19	PASS
	Ant2	5530	16.70	≤ 23.19	PASS
	total	5530	19.89	≤ 23.19	PASS
	Ant1	5610	17.01	≤ 23.19	PASS
	Ant2	5610	16.56	≤ 23.19	PASS
	total	5610	19.80	≤ 23.19	PASS
	Ant1	5775	17.04	≤ 29.19	PASS
	Ant2	5775	16.50	≤ 29.19	PASS
	total	5775	19.79	≤ 29.19	PASS
11AC160MIMO	Ant1	5250_UNII-1	13.25	≤ 23.19	PASS
	Ant1	5250_UNII-2A	13.20	≤ 23.19	PASS
	Ant2	5250_UNII-1	12.79	≤ 23.19	PASS
	Ant2	5250_UNII-2A	12.56	≤ 23.19	PASS
	total	5250_UNII-1	16.04	≤ 23.19	PASS
	total	5250_UNII-2A	15.90	≤ 23.19	PASS
	Ant1	5570	13.44	≤ 23.19	PASS
	Ant2	5570	12.91	≤ 23.19	PASS
	total	5570	16.20	≤ 23.19	PASS
11AX20MIMO	Ant1	5180	16.79	≤ 23.19	PASS
	Ant2	5180	16.48	≤ 23.19	PASS
	total	5180	19.65	≤ 23.19	PASS
	Ant1	5200	15.93	≤ 23.19	PASS
	Ant2	5200	15.46	≤ 23.19	PASS
	total	5200	18.71	≤ 23.19	PASS
	Ant1	5240	17.11	≤ 23.19	PASS
	Ant2	5240	16.72	≤ 23.19	PASS
	total	5240	19.93	≤ 23.19	PASS
	Ant1	5260	15.99	≤ 23.19	PASS
	Ant2	5260	15.72	≤ 23.19	PASS
	total	5260	18.87	≤ 23.19	PASS
	Ant1	5280	16.83	≤ 23.19	PASS
	Ant2	5280	16.40	≤ 23.19	PASS
	total	5280	19.63	≤ 23.19	PASS
	Ant1	5320	16.08	≤ 23.19	PASS
	Ant2	5320	15.53	≤ 23.19	PASS
	total	5320	18.83	≤ 23.19	PASS

	Ant1	5500	17.15	≤23.19	PASS
	Ant2	5500	16.66	≤23.19	PASS
	total	5500	19.93	≤23.19	PASS
	Ant1	5580	15.82	≤23.19	PASS
	Ant2	5580	15.53	≤23.19	PASS
	total	5580	18.69	≤23.19	PASS
	Ant1	5700	16.97	≤23.19	PASS
	Ant2	5700	16.37	≤23.19	PASS
	total	5700	19.69	≤23.19	PASS
	Ant1	5745	16.01	≤29.19	PASS
	Ant2	5745	15.64	≤29.19	PASS
	total	5745	18.84	≤29.19	PASS
	Ant1	5785	17.14	≤29.19	PASS
	Ant2	5785	16.59	≤29.19	PASS
	total	5785	19.88	≤29.19	PASS
	Ant1	5825	16.04	≤29.19	PASS
	Ant2	5825	15.54	≤29.19	PASS
	total	5825	18.81	≤29.19	PASS
11AX40MIMO	Ant1	5190	16.92	≤23.19	PASS
	Ant2	5190	16.49	≤23.19	PASS
	total	5190	19.72	≤23.19	PASS
	Ant1	5230	16.05	≤23.19	PASS
	Ant2	5230	15.62	≤23.19	PASS
	total	5230	18.85	≤23.19	PASS
	Ant1	5270	17.03	≤23.19	PASS
	Ant2	5270	16.43	≤23.19	PASS
	total	5270	19.75	≤23.19	PASS
	Ant1	5310	15.95	≤23.19	PASS
	Ant2	5310	15.35	≤23.19	PASS
	total	5310	18.67	≤23.19	PASS
	Ant1	5510	16.96	≤23.19	PASS
	Ant2	5510	16.57	≤23.19	PASS
	total	5510	19.78	≤23.19	PASS
	Ant1	5550	16.12	≤23.19	PASS
	Ant2	5550	15.69	≤23.19	PASS
	total	5550	18.92	≤23.19	PASS
	Ant1	5670	16.85	≤23.19	PASS
	Ant2	5670	16.80	≤23.19	PASS
	total	5670	19.84	≤23.19	PASS
	Ant1	5755	15.46	≤29.19	PASS
	Ant2	5755	15.03	≤29.19	PASS
	total	5755	18.26	≤29.19	PASS

	Ant1	5795	16.97	≤29.19	PASS
	Ant2	5795	16.52	≤29.19	PASS
	total	5795	19.76	≤29.19	PASS
11AX80MIMO	Ant1	5210	14.08	≤23.19	PASS
	Ant2	5210	13.55	≤23.19	PASS
	total	5210	16.83	≤23.19	PASS
	Ant1	5290	14.89	≤23.19	PASS
	Ant2	5290	14.55	≤23.19	PASS
	total	5290	17.73	≤23.19	PASS
	Ant1	5530	15.99	≤23.19	PASS
	Ant2	5530	15.52	≤23.19	PASS
	total	5530	18.77	≤23.19	PASS
	Ant1	5610	17.16	≤23.19	PASS
	Ant2	5610	16.55	≤23.19	PASS
	total	5610	19.87	≤23.19	PASS
	Ant1	5775	16.00	≤29.19	PASS
	Ant2	5775	15.50	≤29.19	PASS
	total	5775	18.77	≤29.19	PASS
11AX160MIMO	Ant1	5250_UNII-1	14.19	≤23.19	PASS
	Ant1	5250_UNII-2A	13.21	≤23.19	PASS
	Ant2	5250_UNII-1	13.73	≤23.19	PASS
	Ant2	5250_UNII-2A	12.87	≤23.19	PASS
	total	5250_UNII-1	16.97	≤23.19	PASS
	total	5250_UNII-2A	16.06	≤23.19	PASS
	Ant1	5570	13.25	≤23.19	PASS
	Ant2	5570	12.80	≤23.19	PASS
	total	5570	16.04	≤23.19	PASS

Note: The Duty Cycle Factor is compensated in the test system

Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, \dots, G_N$ dBi

If transmit signals are correlated, then Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi

[Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

Directional gain = $10 \log[(10^{3.74/20} + 10^{3.85/20})^2 / N_{ANT}]$ dBi=6.81

3.5 Power Spectral Density

3.5.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Power Spectral Density	Master device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250
		11 dBm/MHz	5250-5350
		11 dBm/MHz	5470-5725
		30 dBm/500 kHz	5725-5850

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 300kHz and VBW at 1500kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add 10 log (500 kHz/300 kHz) to the measured result, i.e. 2.22 dB.
- During the test of U-NII 3 PSD, the measurement result with RBW=300kHz has been added 2.22 dB by compensating offset, offset=cable loss+duty factor+10log(500kHz/300kHz).

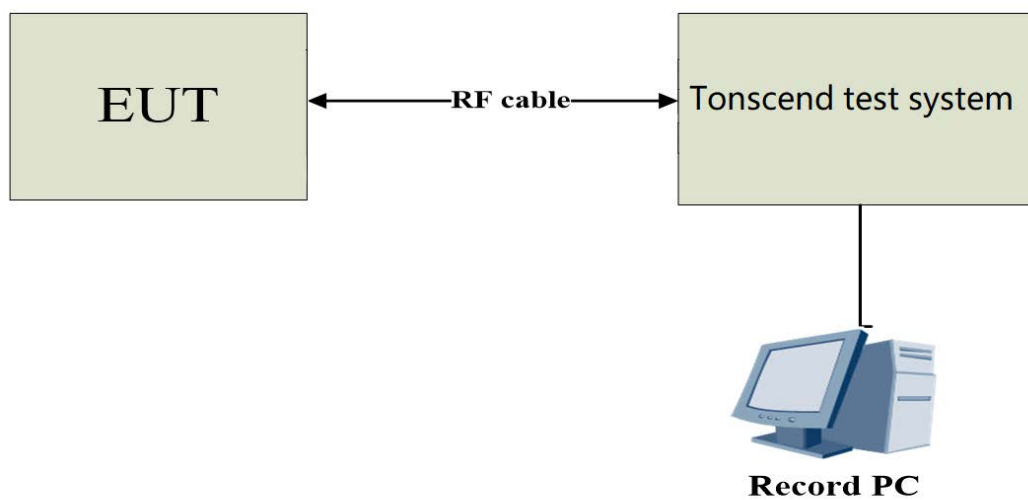
3.5.2 Test Procedure

Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

a) The EUT was directly connected to the tonscond test system and antenna output port as show in the block diagram below. Spectrum analyser settings as following:

Centre Frequency	The centre frequency of the channel under test
RBW	= 1 MHz (Band1/2/3); = 300kHz (Band4)
VBW	≥3 x RBW
Frequency span	2 x Nominal Channel Bandwidth
Detector Mode	RMS
Trace Mode	Max Hold
Sweep Time	Auto Couple

3.5.3 Test Setup



3.5.4 The Result

Test result: PASS

Note: For test data, please refer to the report RFBARR-WTW-P21030485A-5.

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technology Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technology Co., Ltd.

Address: Room 110, 111, 112, 113, 115, 116, Block B, Jinyuan Business Building, No. 302, Xixiang Avenue, Labor Community, Xixiang Street, Baoan District, Shenzhen, China

Tel: 0755-26024411

Email: service@hy-lab.cn

(END OF REPORT)