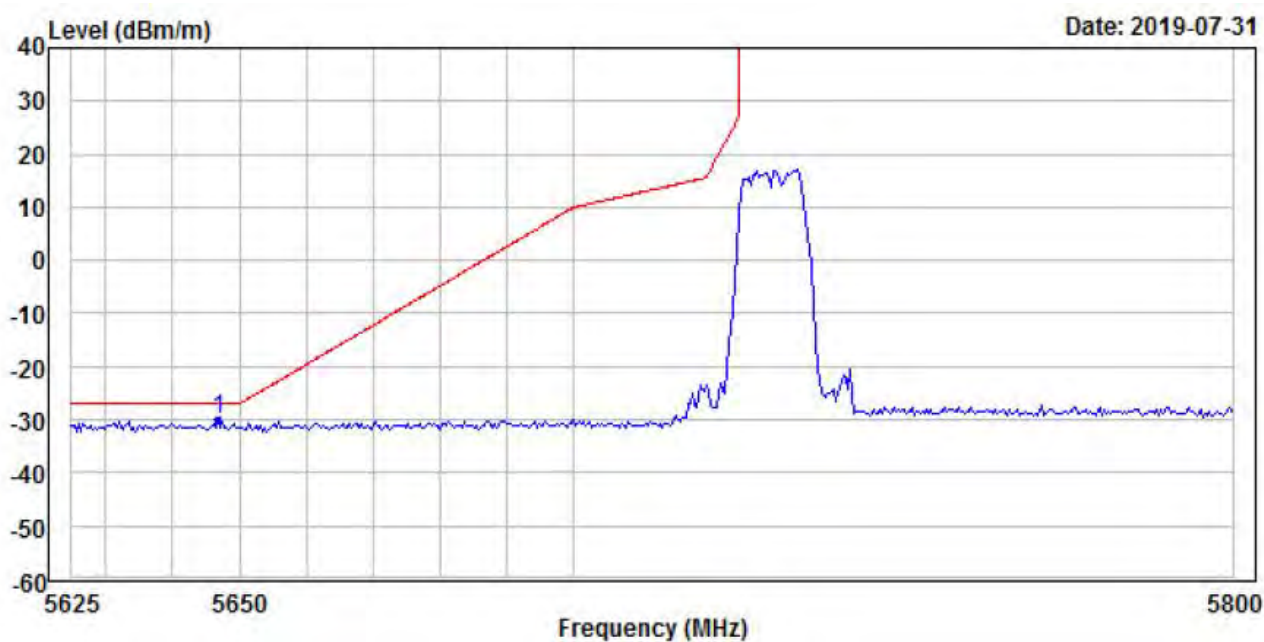




Vertical:



	Read	Ant	Preamp	Cable		Limit	Over	
Freq	Level	Factor	Factor	Loss	Level	Line	Limit	Remark
MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1 PP5646.7440	-57.11	34.88	45.53	37.64	-30.12	-27.00	-3.12	Peak



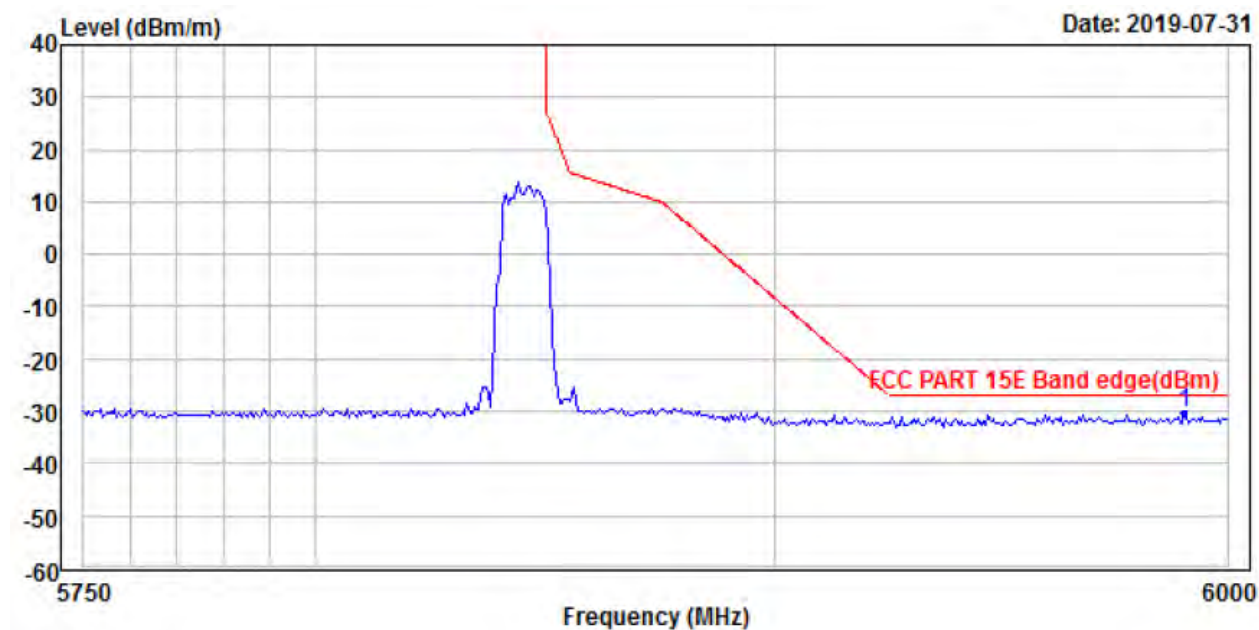
BUREAU
VERITAS

Test Report No.: RF190116W005

OOBE DATA

5725-5850 band MIMO 10MHz MODE-right :

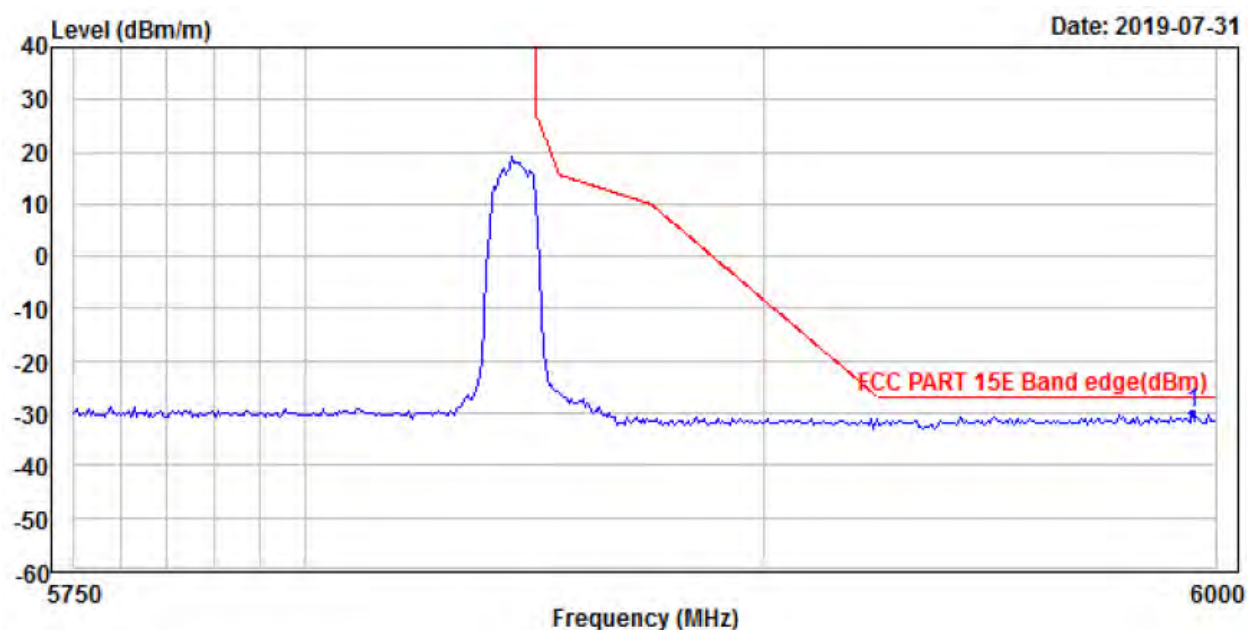
Horizontal :



	Read	Ant	Preamp	Cable	Limit	Over	
Freq	Level	Factor	Factor	Loss	Line	Limit	Remark
MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB
1 PP5990.4810	-57.38	34.49	45.60	38.03	-30.46	-27.00	-3.46 Peak



Vertical:



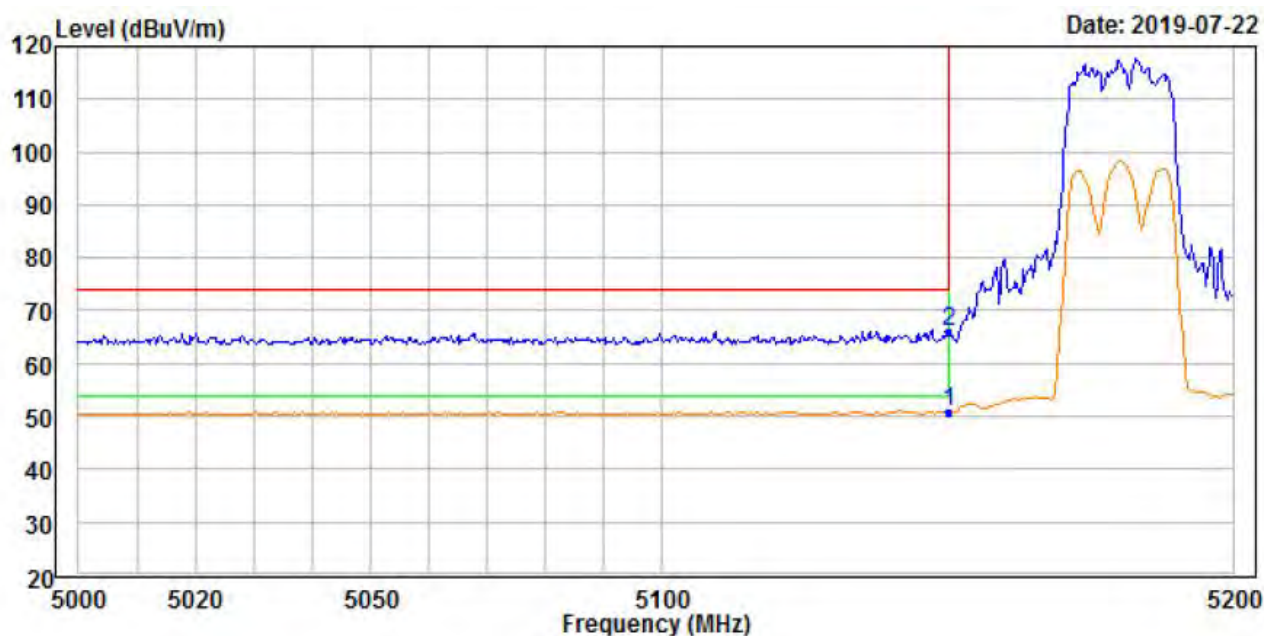
	Read	Ant	Preamp	Cable		Limit	Over	
Freq	Level	Factor	Factor	Loss	Level	Line	Limit	Remark
MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1 PP5994.9900	-57.61	35.29	45.60	38.03	-29.89	-27.00	-2.89	Peak



Oobe Data

5150-5250 band MIMO 20MHz MODE-left :

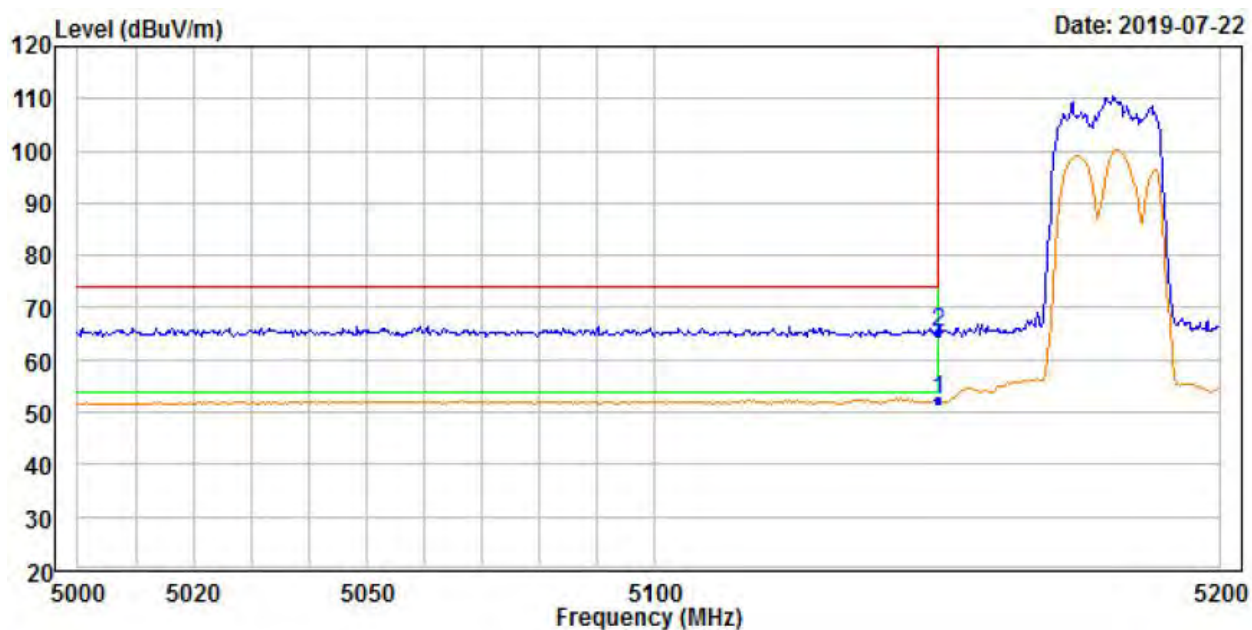
Horizontal :



	Read	Ant	Preamp	Cable		Limit	Over	
Freq	Level	Factor	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 PP5150.0000	36.53	33.45	45.57	26.47	50.88	54.00	-3.12	Average
2 PK5150.0000	51.56	33.45	45.57	26.47	65.91	74.00	-8.09	Peak



Vertical:

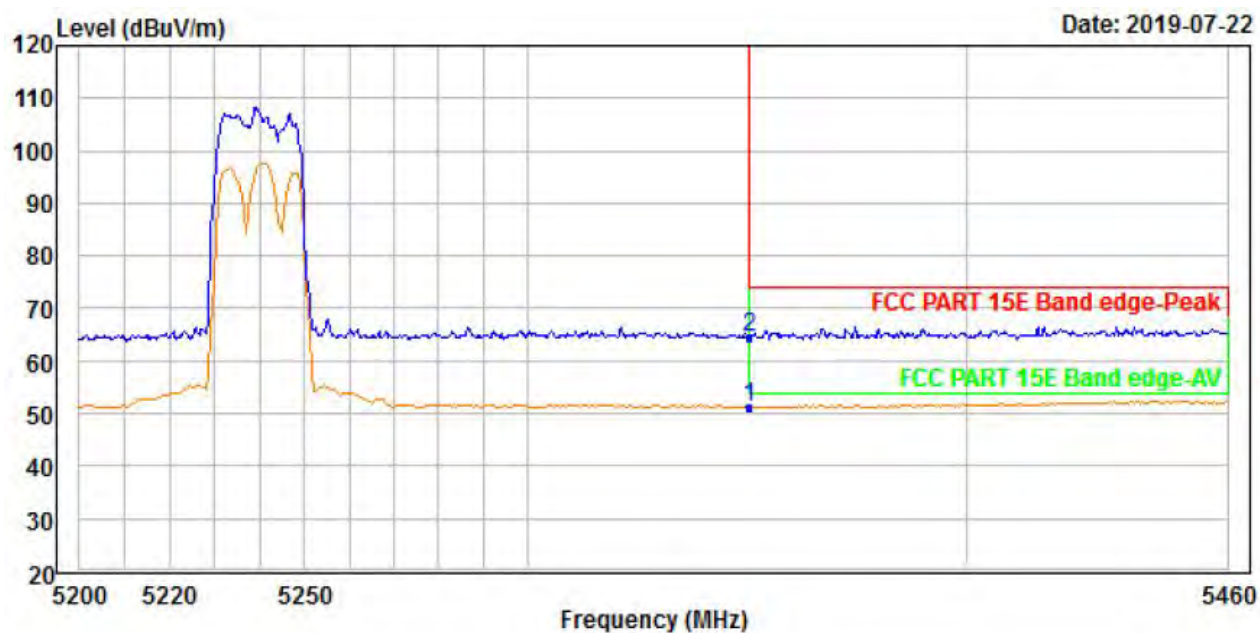


	Freq	Read Level	Ant Factor	Preamp Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	PP5150.0000	36.90	34.42	45.57	26.47	52.22	54.00	-1.78	Average
2	PK5150.0000	49.99	34.42	45.57	26.47	65.31	74.00	-8.69	Peak



5150-5250 band MIMO 20MHz MODE-right :

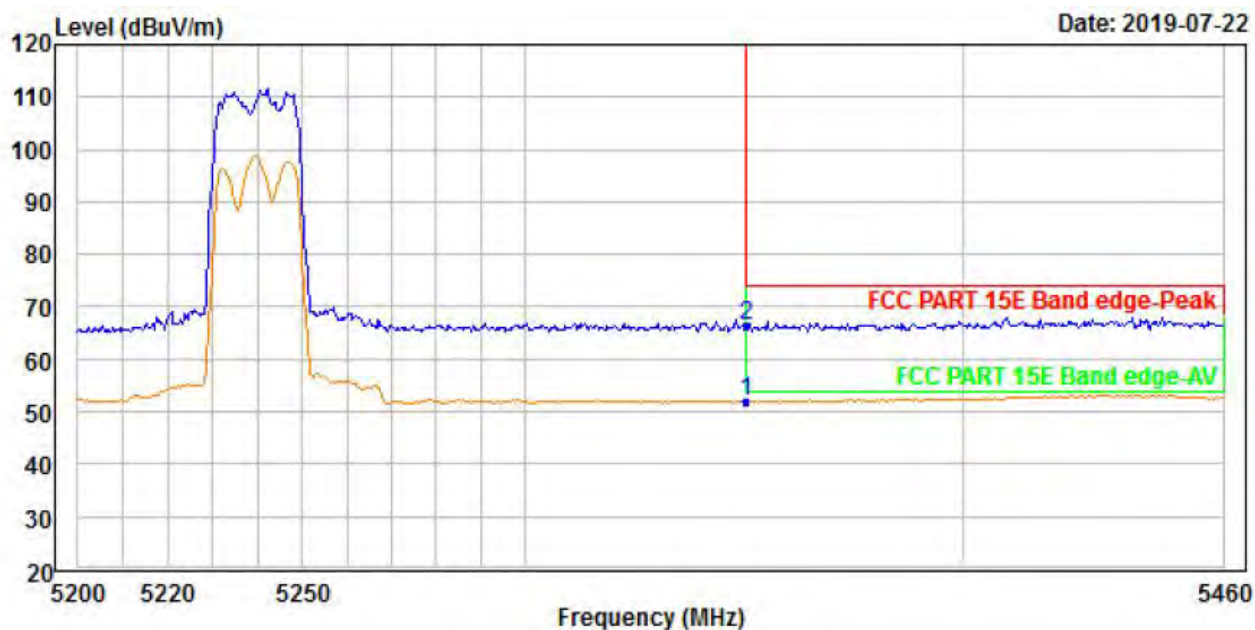
Horizontal :



	Freq	Read Level	Ant Factor	Preamp Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	PP5350.0000	36.96	33.65	45.53	26.29	51.37	54.00	-2.63	Average
2	PK5350.0000	50.19	33.65	45.53	26.29	64.60	74.00	-9.40	Peak



Vertical:

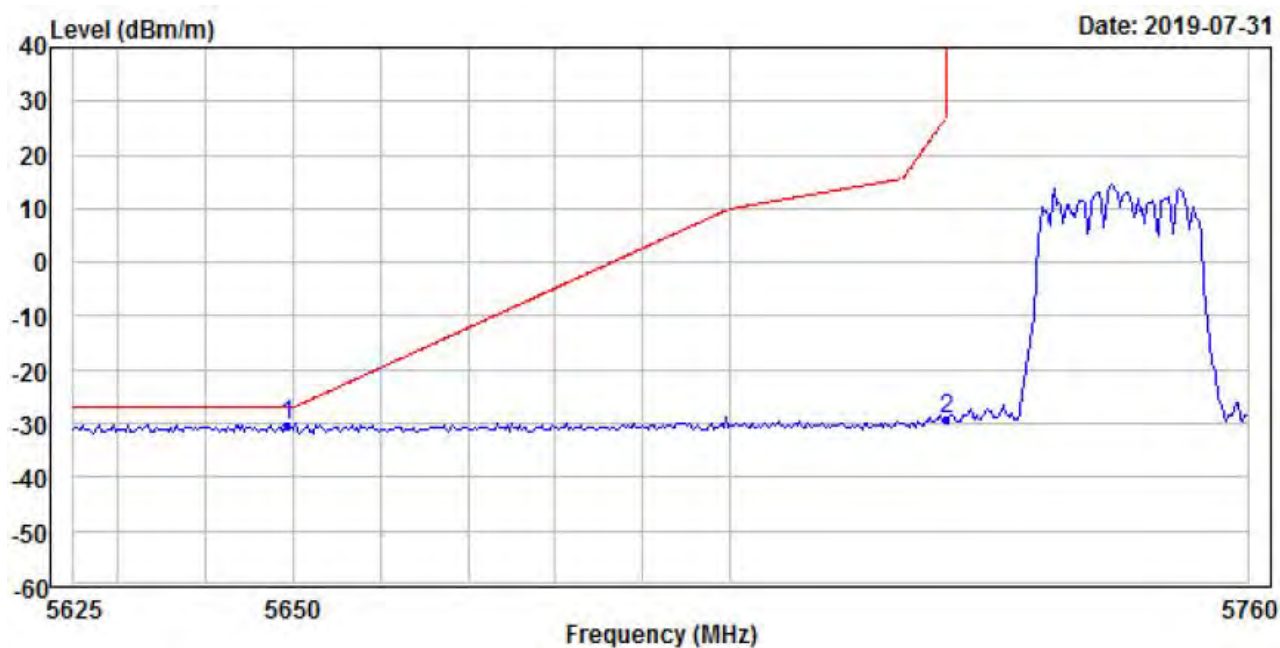


	Freq	Read Level	Ant Factor	Preamp Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	PP5350.0000	36.43	34.58	45.53	26.29	51.77	54.00	-2.23	Average
2	PK5350.0000	50.88	34.58	45.53	26.29	66.22	74.00	-7.78	Peak



5725-5850 band MIMO 20MHz MODE-left :

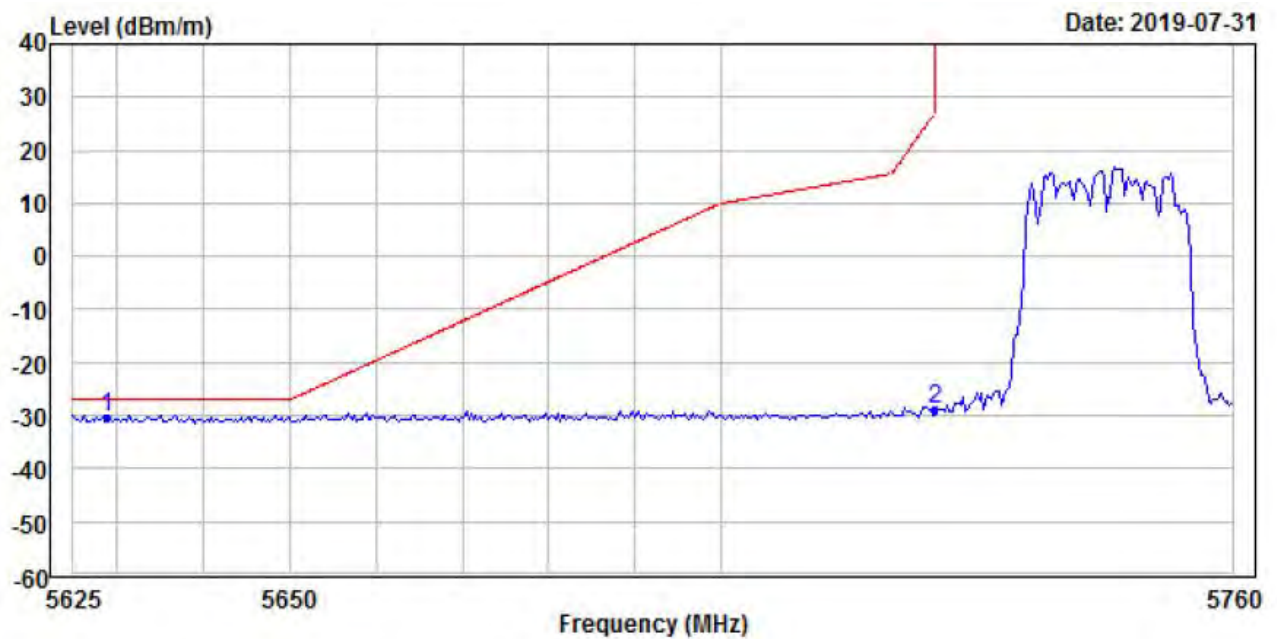
Horizontal :



	Read Freq	Level	Ant Factor	Preamp Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1	PP5649.3490	-56.46	34.01	45.53	37.64	-30.34	-27.00	-3.34	Peak
2	5725.0000	-55.72	34.11	45.54	37.79	-29.36	27.00	-56.36	Peak



Vertical:

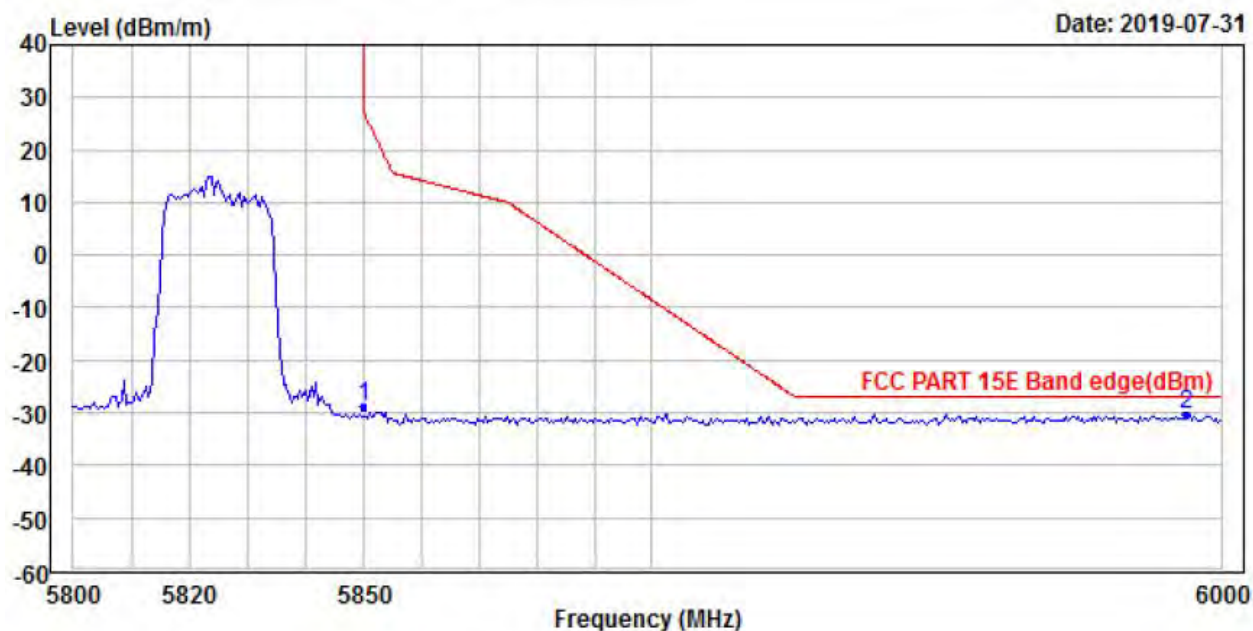


	Freq	Read Level	Ant Factor	Preamplifier Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1	PP5628.7880	-57.43	34.85	45.53	37.60	-30.51	-27.00	-3.51	Peak
2	5725.0000	-56.02	34.97	45.54	37.79	-28.80	27.00	-55.80	Peak



5725-5850 band MIMO 20MHz MODE-right :

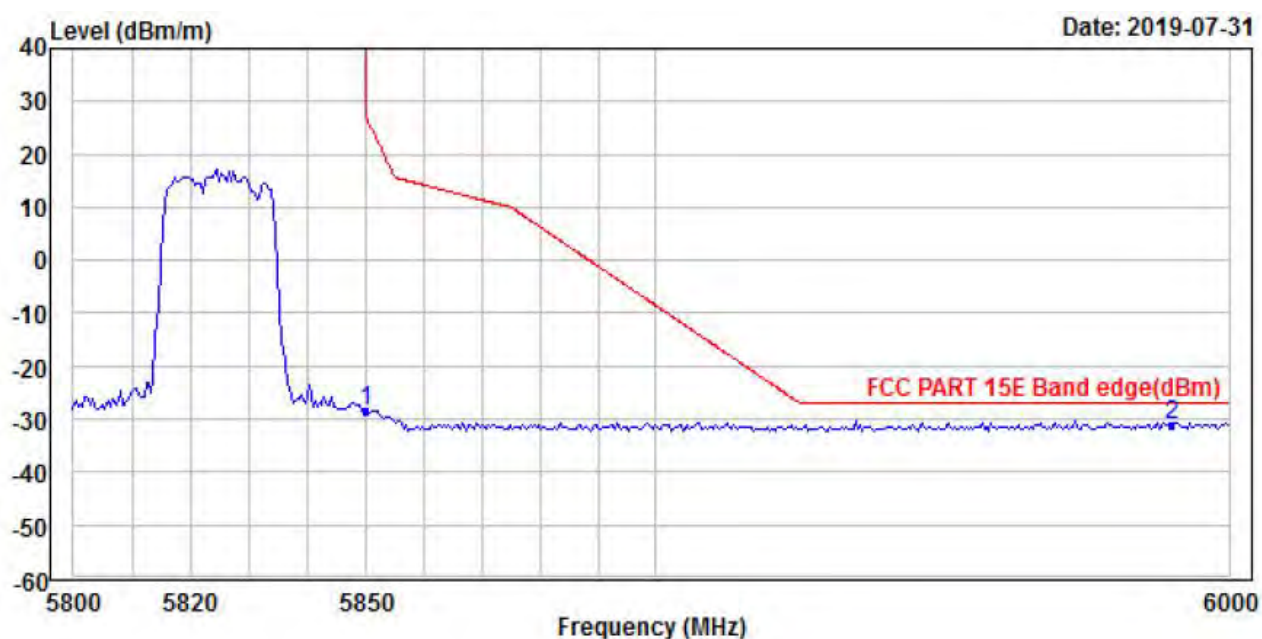
Horizontal :



	Freq	Read Level	Ant Factor	Preamplifier Factor	Cable Loss	Level	Limit	Over Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1	5850.0000	-55.49	34.29	45.57	37.96	-28.81	27.00	-55.81	Peak
2	PP5993.9880	-57.26	34.49	45.60	38.03	-30.34	-27.00	-3.34	Peak



Vertical:



	Freq	Read Level	Ant Factor	Preamp Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1	5850.0000	-55.94	35.12	45.57	37.96	-28.43	27.00	-55.43	Peak
2	PP5989.9800	-58.89	35.29	45.60	38.02	-31.18	-27.00	-4.18	Peak

3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

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

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

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 26,19	Feb. 25,20
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 26,19	Feb. 25,20

NOTE:

1. The test was performed in CE shielded room.

2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.2.3 TEST PROCEDURES

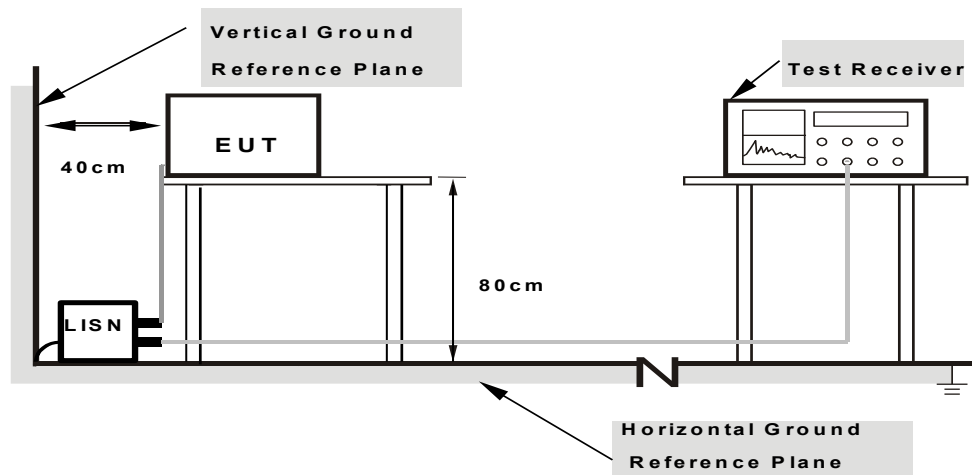
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

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

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



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

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

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

3.2.6 EUT OPERATING CONDITIONS

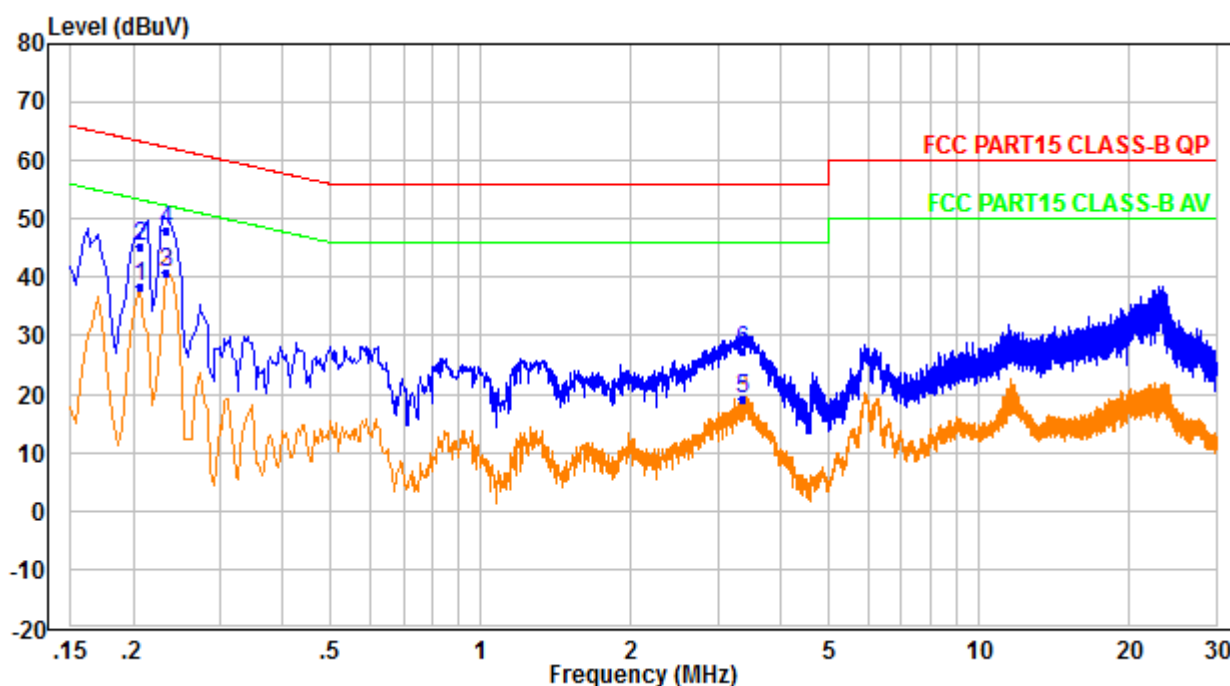
Same as 3.1.6.



3.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA :

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	24deg. C, 55RH
Tested By	Jocan Guo	TEST DATE	2019/08/02



	Freq	Read Level	LISN Factor	Cable Loss	Aux Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.2060	28.36	0.17	0.01	9.83	38.37	53.37	-15.00	Average
2	0.2060	35.13	0.17	0.01	9.83	45.14	63.37	-18.23	QP
3 PP	0.2340	30.92	0.17	0.01	9.82	40.92	52.31	-11.39	Average
4 QP	0.2340	38.09	0.17	0.01	9.82	48.09	62.31	-14.22	QP
5	3.3658	8.59	0.31	0.05	10.08	19.03	46.00	-26.97	Average
6	3.3658	16.89	0.31	0.05	10.08	27.33	56.00	-28.67	QP

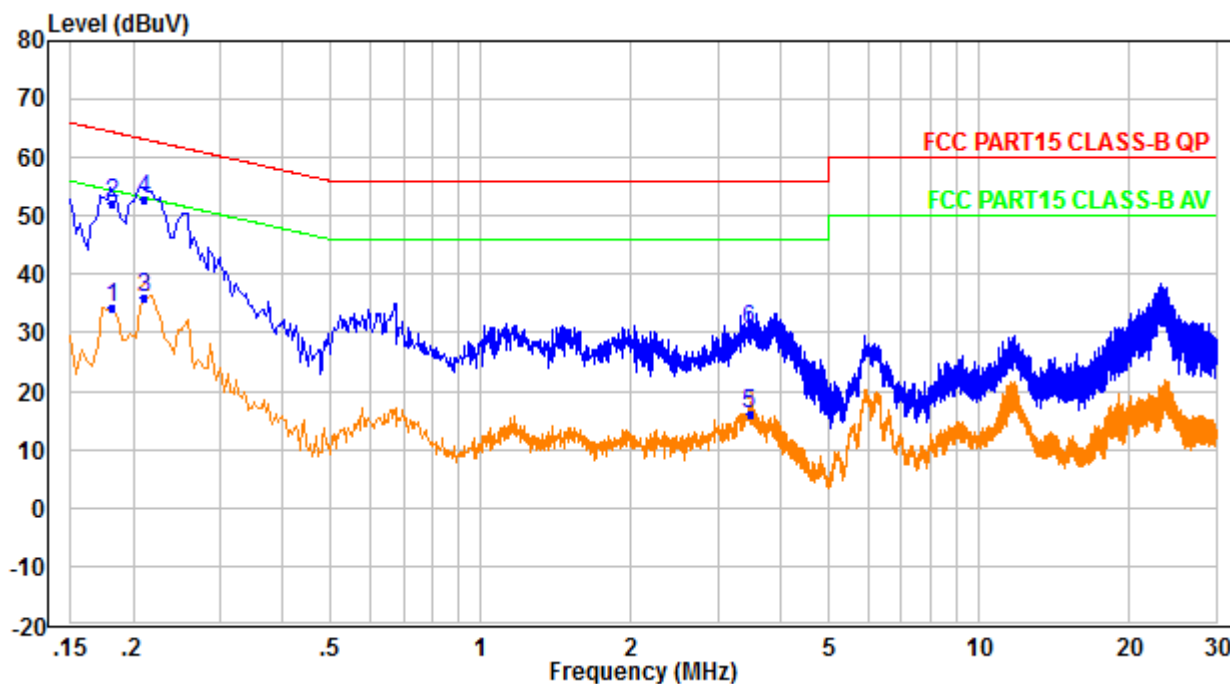
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



**BUREAU
VERITAS**

Test Report No.: RF190116W005

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	24deg. C, 55RH
Tested By	Jocan Guo	TEST DATE	2019/08/02



	Freq	Read Level	LISN Factor	Cable Loss	Aux Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.1820	24.35	0.15	0.01	9.84	34.35	54.39	-20.04	Average
2	0.1820	42.17	0.15	0.01	9.84	52.17	64.39	-12.22	QP
3 AV	0.2100	26.17	0.15	0.01	9.83	36.16	53.21	-17.05	Average
4 PP	0.2100	42.93	0.15	0.01	9.83	52.92	63.21	-10.29	QP
5	3.4658	5.78	0.30	0.05	10.09	16.22	46.00	-29.78	Average
6	3.4658	20.05	0.30	0.05	10.09	30.49	56.00	-25.51	QP

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

3.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

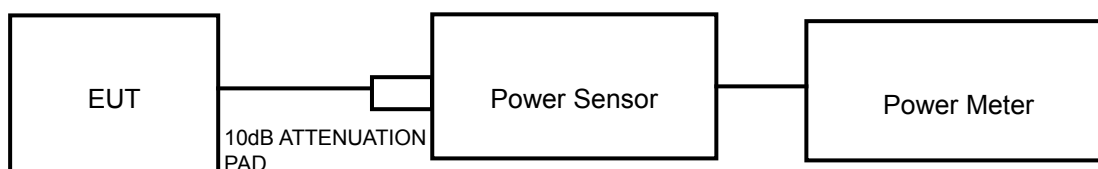
3.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	√	Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
		Client devices	250mW (24 dBm)
U-NII-2A			250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C			250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

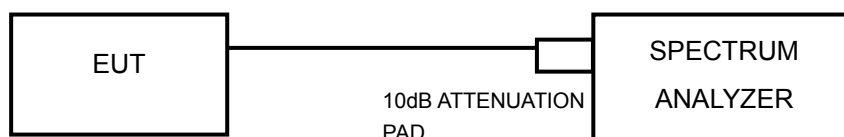
NOTE: Where B is the 26dB emission bandwidth in MHz.

3.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT



FOR OBW & 26dB & 6dB BANDWIDTH



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 26,19	Feb. 25,20
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 26,19	Feb. 25,20
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Feb. 26,19	Feb. 25,20
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 26,19	Feb. 25,20

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.

3.3.4 TEST PROCEDURE

FOR POWER MEASUREMENT

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

FOR 99 PERCENT OCCUPIED BANDWIDTH

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

FOR 26dB BANDWIDTH

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

FOR 6dB BANDWIDTH

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

Note: For multiple antennas, per KDB 662911 D01 Multiple Transmitter Output v02r01, the directional antenna gain is:

Directional gain = GANT + Array Gain,

For Cyclic Delay Diversity(CDD) system(declaired by manual factor), N_{SS} is 2, and for power and PSD measurements the *Array Gain* = $10 \log(N_{ANT}/N_{SS})$ dB.

The antenna gain is 21dBi, so the Directional gain=21dBi, the manufacturer declared the EUT is a Fixed point - to - point equipment, so the Maximum conducted output power limit and the maximum power spectral density limit without any reduction.



3.3.7 TEST RESULTS

10MHz BANDWIDTH OUTPUT POWER:

CHANNEL FREQUENCY (MHz)	POWER OF ANT 0 (dBm)	POWER OF ANT 2 (dBm)	TOTAL AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
QPSK/16QAM SISO MODE					
5180	14.09	13.01	/	30	PASS
5200	14.14	14.4	/	30	PASS
5245	14.45	13.41	/	30	PASS
5730	14.37	13.43	/	30	PASS
5800	13.76	12.61	/	30	PASS
5845	14.44	12.87	/	30	PASS
64QAM SISO MODE					
5180	13.65	12.78	/	30	PASS
5200	13.68	13.88	/	30	PASS
5245	13.87	13.01	/	30	PASS
5730	13.79	12.93	/	30	PASS
5800	13.34	12.24	/	30	PASS
5845	13.93	12.46	/	30	PASS
QPSK/16QAM MIMO MODE					
5180	9.35	8.39	11.91	30	PASS
5200	8.83	8.89	11.87	30	PASS
5245	9.07	8.55	11.83	30	PASS
5730	9.63	7.94	11.88	30	PASS
5800	9.55	7.85	11.79	30	PASS
5845	9.67	7.98	11.92	30	PASS
64QAM MIMO MODE					
5180	8.89	7.89	11.43	30	PASS
5200	8.43	8.39	11.42	30	PASS
5245	8.67	7.94	11.33	30	PASS
5730	9.13	7.47	11.39	30	PASS
5800	9.15	7.42	11.38	30	PASS
5845	9.27	7.53	11.50	30	PASS

20MHz BANDWIDTH OUTPUT POWER:

CHANNEL FREQUENCY (MHz)	POWER OF ANT 0 (dBm)	POWER OF ANT 2 (dBm)	TOTAL AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
QPSK/16QAM SISO MODE					
5180	13.91	13.89	/	30	PASS
5200	14.03	14.23	/	30	PASS
5240	14.17	14.16	/	30	PASS
5745	14.18	14.22	/	30	PASS
5785	13.47	13.65	/	30	PASS
5825	13.41	13.54	/	30	PASS
64QAM SISO MODE					
5180	13.48	13.55	/	30	PASS
5200	13.56	13.76	/	30	PASS
5240	13.67	13.68	/	30	PASS
5745	13.87	13.83	/	30	PASS
5785	12.98	13.05	/	30	PASS
5825	13.96	13.01	/	30	PASS
QPSK/16QAM MIMO MODE					
5180	8.72	8.36	11.55	30	PASS
5200	8.65	8.94	11.81	30	PASS
5240	8.76	8.45	11.62	30	PASS
5745	8.85	8.56	11.72	30	PASS
5785	8.16	8.05	11.12	30	PASS
5825	8.1	8.03	11.08	30	PASS
64QAM MIMO MODE					
5180	8.32	8.06	11.20	30	PASS
5200	8.15	8.34	11.26	30	PASS
5240	8.26	8.15	11.22	30	PASS
5745	8.35	8.06	11.22	30	PASS
5785	7.85	7.82	10.85	30	PASS
5825	7.69	7.75	10.73	30	PASS

**99% OCCUPIED BANDWIDTH & 26dB BANDWIDTH/6dB BANDWIDTH:
ANT 0 – QPSK/16QAM**

BANDWIDTH	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB /6dB BANDWIDTH (MHz)	PASS/FAIL
10MHz	5180	8.87	9.53	PASS
	5200	8.93	9.42	PASS
	5245	8.91	9.46	PASS
	5730	8.90	8.92	PASS
	5800	8.97	9.04	PASS
	5845	8.87	8.83	PASS
BANDWIDTH	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB /6dB BANDWIDTH (MHz)	PASS/FAIL
20MHz	5180	17.81	18.74	PASS
	5200	17.83	18.92	PASS
	5240	17.83	18.71	PASS
	5745	17.80	17.94	PASS
	5785	17.79	17.95	PASS
	5825	17.83	18.01	PASS

ANT 0 – 64QAM

BANDWIDTH	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB /6dB BANDWIDTH (MHz)	PASS/FAIL
10MHz	5180	8.92	9.61	PASS
	5200	8.92	9.69	PASS
	5245	8.93	9.38	PASS
	5730	8.89	8.89	PASS
	5800	8.91	8.88	PASS
	5845	8.94	9.01	PASS
BANDWIDTH	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB /6dB BANDWIDTH (MHz)	PASS/FAIL
20MHz	5180	17.82	18.54	PASS
	5200	17.82	18.88	PASS
	5240	17.85	18.80	PASS
	5745	17.83	18.02	PASS
	5785	17.81	17.94	PASS
	5825	17.83	17.97	PASS

For U-NII-1:

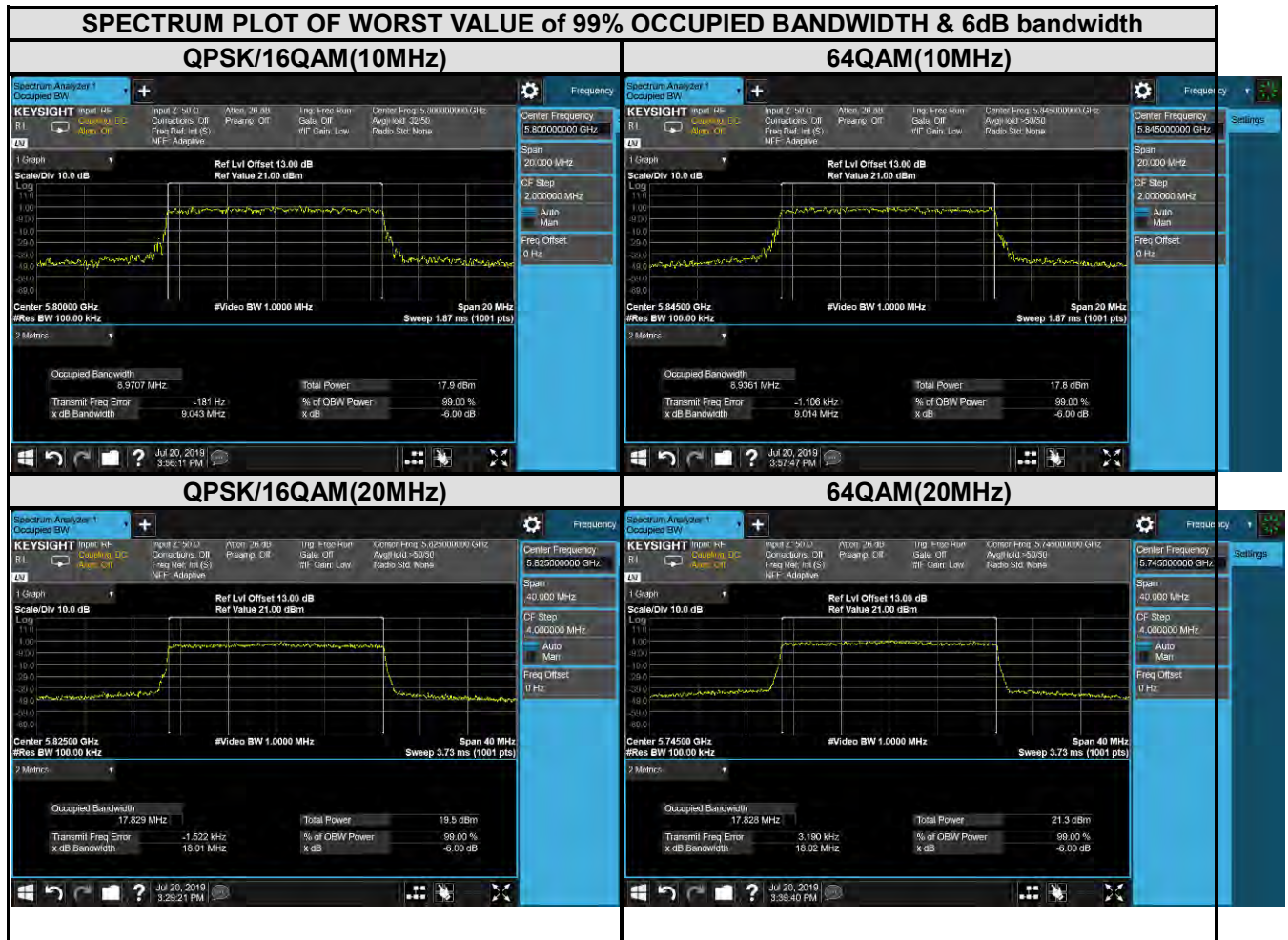




BUREAU
VERITAS

Test Report No.: RF190116W005

For U-NII-3:





99% OCCUPIED BANDWIDTH & 26dB BANDWIDTH/6dB BANDWIDTH:
ANT 2 – QPSK/16QAM

BANDWIDTH	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB /6dB BANDWIDTH (MHz)	PASS/FAIL
10MHz	5180	8.91	9.55	PASS
	5200	8.90	9.51	PASS
	5245	8.93	9.60	PASS
	5730	8.93	8.99	PASS
	5800	8.92	8.99	PASS
	5845	8.93	8.96	PASS
BANDWIDTH	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB /6dB BANDWIDTH (MHz)	PASS/FAIL
20MHz	5180	17.80	18.68	PASS
	5200	17.80	18.67	PASS
	5240	17.87	18.58	PASS
	5745	17.80	17.95	PASS
	5785	17.80	18.00	PASS
	5825	17.83	17.98	PASS

ANT 2 – 64QAM

BANDWIDTH	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB /6dB BANDWIDTH (MHz)	PASS/FAIL
10MHz	5180	8.92	9.74	PASS
	5200	8.91	9.61	PASS
	5245	8.91	9.49	PASS
	5730	8.93	9.00	PASS
	5800	8.92	8.99	PASS
	5845	8.94	9.01	PASS
BANDWIDTH	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB /6dB BANDWIDTH (MHz)	PASS/FAIL
20MHz	5180	17.80	18.57	PASS
	5200	17.80	18.64	PASS
	5240	17.78	18.73	PASS
	5745	17.81	17.99	PASS
	5785	17.80	17.97	PASS
	5825	17.81	18.00	PASS



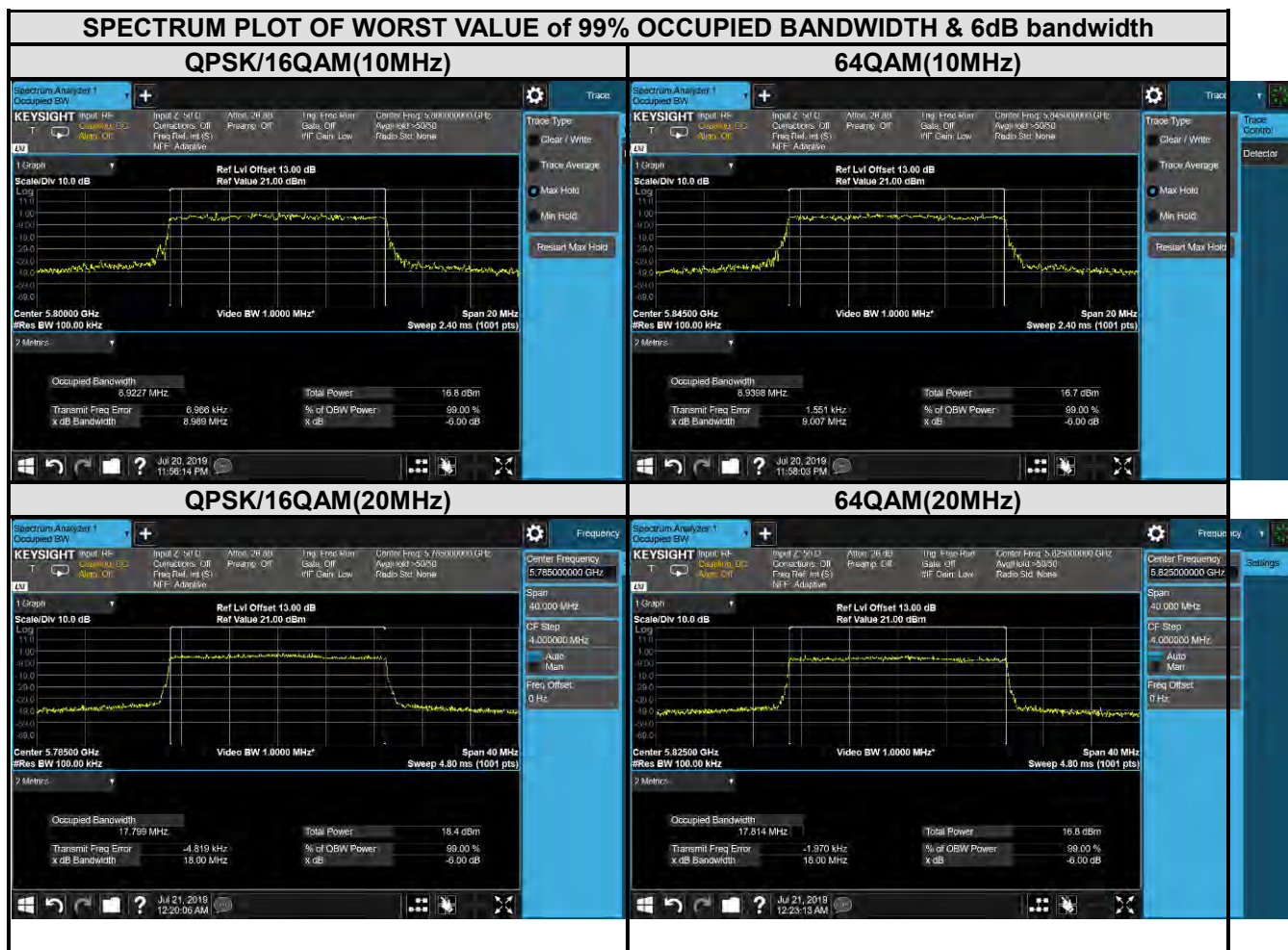
BUREAU
VERITAS

Test Report No.: RF190116W005

For U-NII-1:



For U-NII-3:

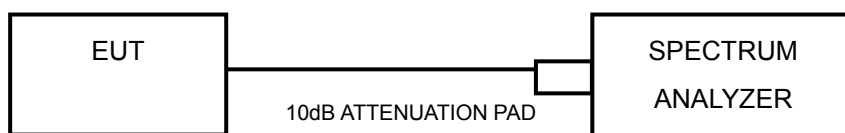


3.4 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.4.1 LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
	√	Fixed point-to-point Access Point	
		Indoor Access Point	
		Client devices	11dBm/ MHz
U-NII-2A			11dBm/ MHz
U-NII-2C			11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST PROCEDURES

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).
- 7) Record the max value

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

Same as 3.1.6.

Note: For multiple antennas, per KDB 662911 D01 Multiple Transmitter Output v02r01, the directional antenna gain is:

Directional gain = GANT + Array Gain,

For Cyclic Delay Diversity(CDD) system(declaired by manualfator), N_{SS} is 2, and for power and PSD measurements the *Array Gain* = $10 \log(N_{ANT}/N_{SS})$ dB.

The antenna gain is 21dBi, so the Directional gain=21dBi, the manufacturer declared the EUT is a Fixed point - to - point equipment, so the Maximum conducted output power limit and the maximum power spectral density limit without any reduction.

3.4.7 TEST RESULTS

For U-NII-1:

SISO - QPSK/16QAM MODE

BANDWIDTH	FREQUENCY (MHz)	PSD of ANT 0 (dBm/MHz)	PSD of ANT 2 (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
10MHz	5180	1.697	1.216	17	PASS
	5200	1.259	1.494	17	PASS
	5245	1.540	1.296	17	PASS
20 MHz	5180	-1.793	0.474	17	PASS
	5200	-1.551	-0.418	17	PASS
	5240	-1.988	-0.818	17	PASS

SISO - 64QAM MODE

BANDWIDTH	FREQUENCY (MHz)	PSD of ANT 0 (dBm/MHz)	PSD of ANT 2 (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
10MHz	5180	1.684	1.282	17	PASS
	5200	0.987	1.682	17	PASS
	5245	1.727	1.196	17	PASS
20 MHz	5180	-1.201	0.396	17	PASS
	5200	-0.915	0.020	17	PASS
	5240	-1.737	-0.851	17	PASS

MIMO - QPSK/16QAM MODE

BANDWIDTH	FREQUENCY (MHz)	PSD of ANT 0 (dBm/MHz)	PSD of ANT 2 (dBm/MHz)	TOTAL PSD (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/ FAIL
10MHz	5180	-6.581	-6.146	-3.348	17	PASS
	5200	-5.127	-5.082	-2.094	17	PASS
	5245	-5.257	-5.343	-2.289	17	PASS
20 MHz	5180	-5.744	-5.293	-2.502	17	PASS
	5200	-6.258	-5.261	-2.721	17	PASS
	5240	-6.180	-6.616	-3.382	17	PASS

MIMO - 64QAM MODE

BANDWIDTH	FREQUENCY (MHz)	PSD of ANT 0 (dBm/MHz)	PSD of ANT 2 (dBm/MHz)	TOTAL PSD (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/ FAIL
10MHz	5180	-6.470	-6.024	-3.231	17	PASS
	5200	-5.147	-5.351	-2.238	17	PASS
	5245	-5.298	-5.553	-2.413	17	PASS
20 MHz	5180	-5.427	-5.200	-2.302	17	PASS
	5200	-6.420	-6.109	-3.251	17	PASS
	5240	-6.107	-6.418	-3.249	17	PASS

For U-NII-3:

SISO - QPSK/16QAM MODE

BANDWIDTH	FREQUENCY (MHz)	PSD of ANT 0 (dBm/500KHz)	PSD of ANT 2 (dBm/500KHz)	MAXIMUM LIMIT (dBm/500KHz)	PASS/FAIL
10MHz	5730	-2.051	-2.124	30	PASS
	5800	-2.743	-2.929	30	PASS
	5845	-3.369	-3.390	30	PASS
20 MHz	5745	-4.241	-5.111	30	PASS
	5785	-4.472	-5.849	30	PASS
	5825	-5.969	-6.163	30	PASS

SISO - 64QAM MODE

BANDWIDTH	FREQUENCY (MHz)	PSD of ANT 0 (dBm/500KHz)	PSD of ANT 2 (dBm/500KHz)	MAXIMUM LIMIT (dBm/500KHz)	PASS/FAIL
10MHz	5730	-1.958	-2.270	30	PASS
	5800	-2.788	-3.355	30	PASS
	5845	-2.669	-3.803	30	PASS
20 MHz	5745	-5.547	-4.080	30	PASS
	5785	-4.921	-5.459	30	PASS
	5825	-5.942	-6.307	30	PASS



MIMO - QPSK/16QAM MODE

BANDWIDTH	FREQUENCY (MHz)	PSD of ANT 0 (dBm/500KHz)	PSD of ANT 2 (dBm/500KHz)	TOTAL PSD (dBm/500KHz)	MAXIMUM LIMIT (dBm/500KHz)	PASS/ FAIL
10MHz	5730	-6.086	-7.112	-3.558	30	PASS
	5800	-6.672	-8.609	-4.523	30	PASS
	5845	-7.192	-9.041	-5.009	30	PASS
20 MHz	5745	-8.804	-10.024	-6.361	30	PASS
	5785	-9.203	-11.500	-7.191	30	PASS
	5825	-10.192	-11.747	-7.890	30	PASS

MIMO - 64QAM MODE

BANDWIDTH	FREQUENCY (MHz)	PSD of ANT 0 (dBm/500KHz)	PSD of ANT 2 (dBm/500KHz)	TOTAL PSD (dBm/500KHz)	MAXIMUM LIMIT (dBm/500KHz)	PASS/ FAIL
10MHz	5730	-5.325	-7.196	-3.150	30	PASS
	5800	-6.960	-8.867	-4.799	30	PASS
	5845	-6.875	-9.313	-4.915	30	PASS
20 MHz	5745	-7.885	-9.789	-5.723	30	PASS
	5785	-9.169	-10.874	-6.928	30	PASS
	5825	-9.785	-12.003	-7.744	30	PASS

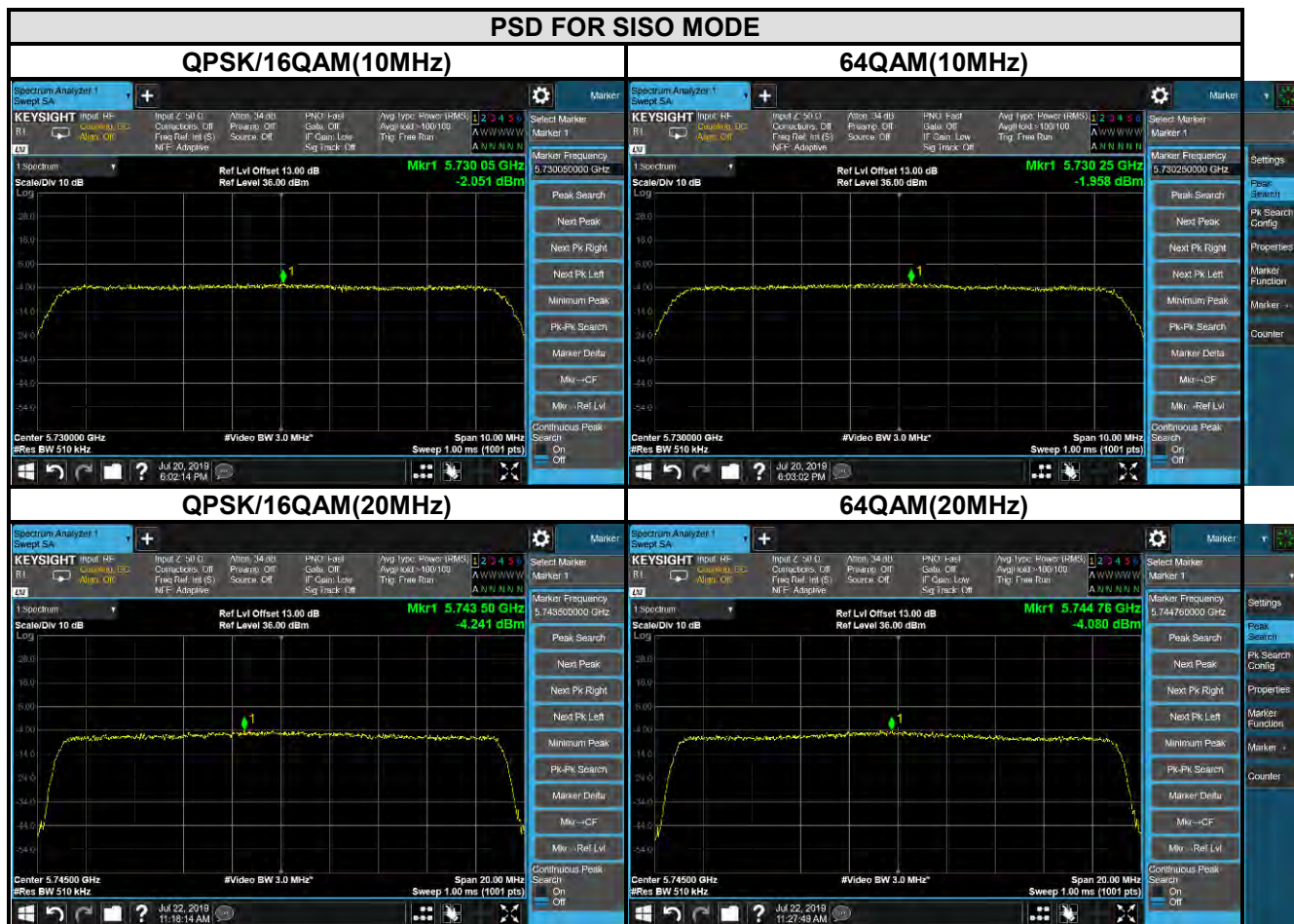
For 5150~5250MHz



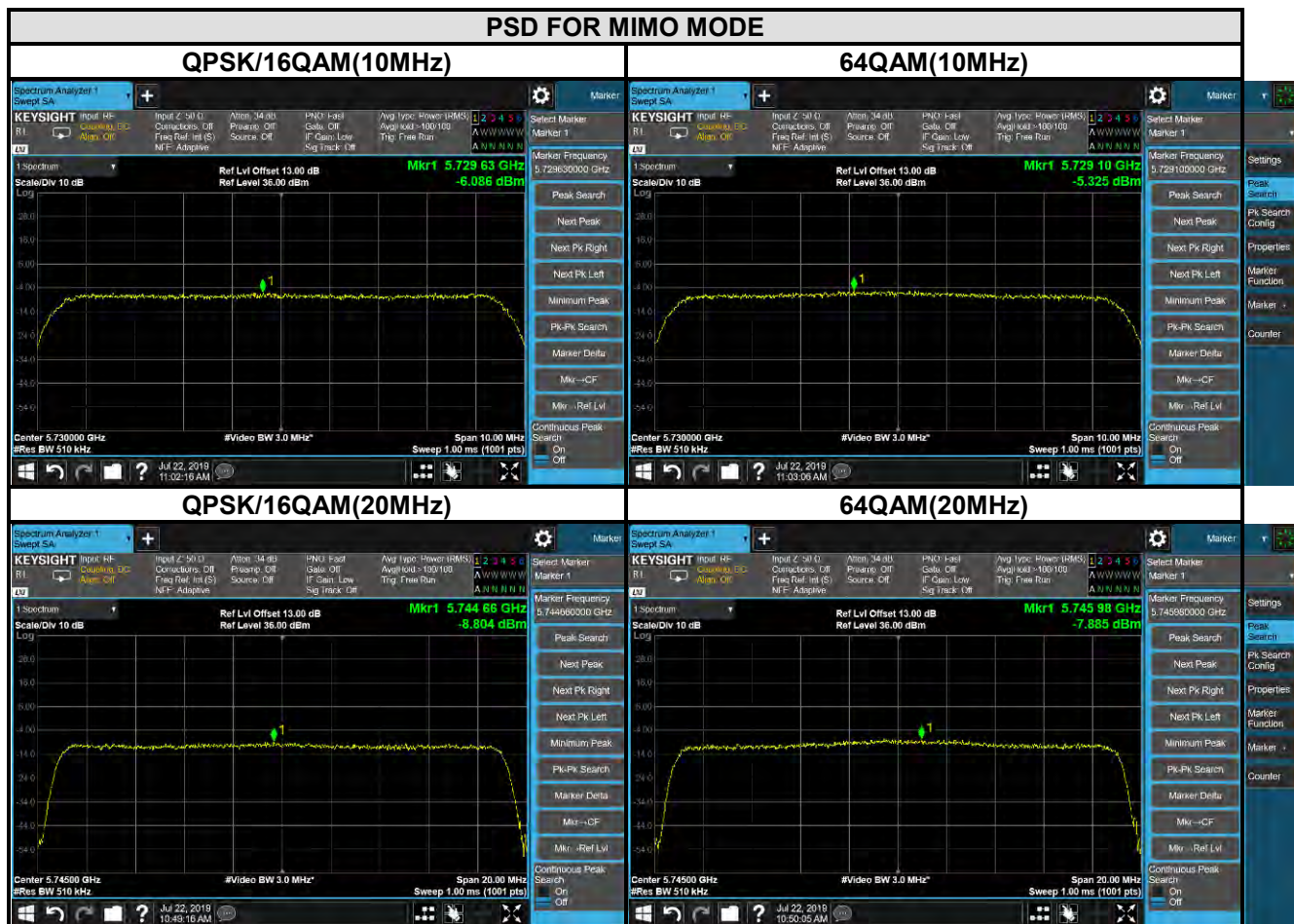
For 5150~5250MHz



For 5725~5850MHz SISO MODE



For 5725~5850MHz MIMO MODE



4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

---END---