Dt&C

Maximum Power Spectral Density   Test Mode: 802.11ax HE80   &   ANT 1   &   T26   &   0RU   &   Ch.106

Maximum Power Spectral Density   Test Mode: 802.11ax HE80   &   ANT 1   &   T26   &   0RU   &   Ch.122
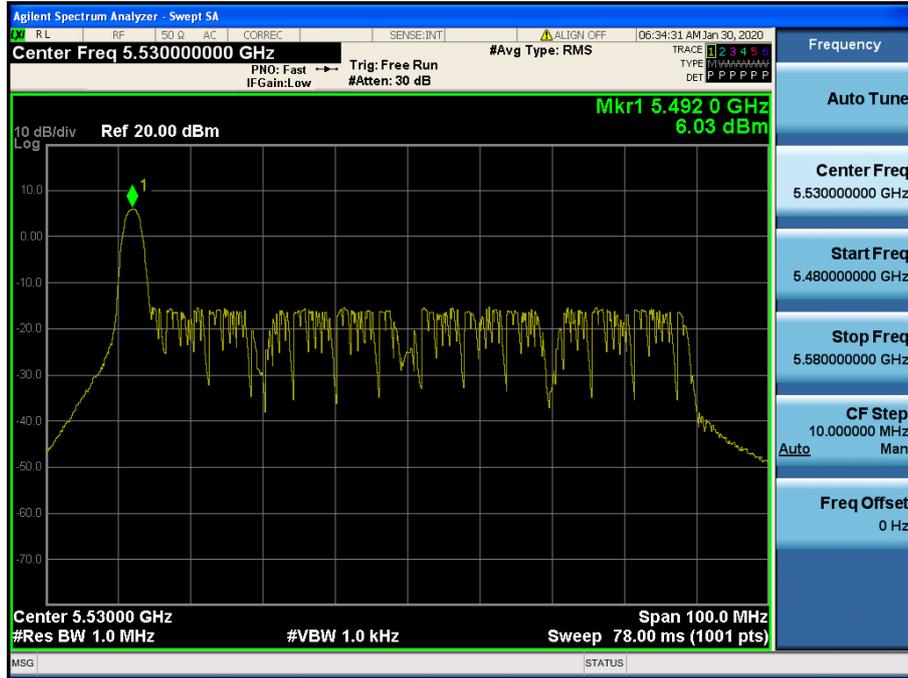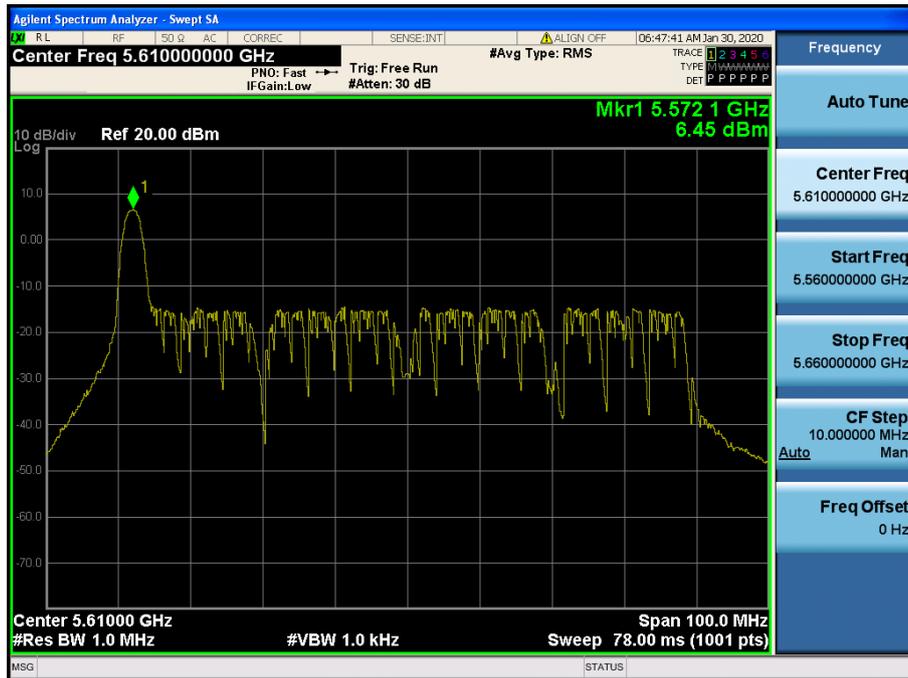
Maximum Power Spectral Density

Test Mode: 802.11ax HE80 & ANT 1 & T26 & 0RU & Ch.138

Maximum Power Spectral Density

Test Mode: 802.11ax HE80 & ANT 1 & T26 & 0RU & Ch.155

- Power spectral density: CDD-Antenna 2

Maximum Power Spectral Density   Test Mode: 802.11ax HE20   &   ANT 2   &   T26   &   8RU   &   Ch.36

Maximum Power Spectral Density   Test Mode: 802.11ax HE20   &   ANT 2   &   T26   &   8RU   &   Ch.40
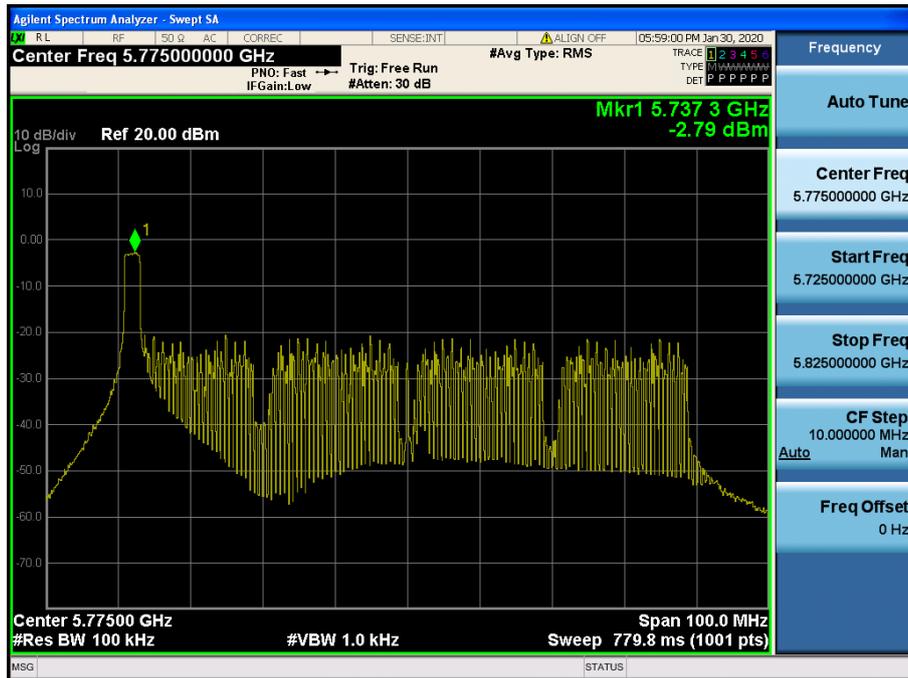
Dt&C

Maximum Power Spectral Density

Test Mode: 802.11ax HE20 & ANT 2 & T26 & 8RU & Ch.48

Maximum Power Spectral Density   Test Mode: 802.11ax HE20 & ANT 2 & T26 & 8RU & Ch.52

Maximum Power Spectral Density   Test Mode: 802.11ax HE20 & ANT 2 & T26 & 8RU & Ch.60

Maximum Power Spectral Density Test Mode: 802.11ax HE20 & ANT 2 & T26 & 8RU & Ch.64

Maximum Power Spectral Density   Test Mode: 802.11ax HE20 & ANT 2 & T26 & 8RU & Ch.100

Maximum Power Spectral Density   Test Mode: 802.11ax HE20 & ANT 2 & T26 & 0RU & Ch.120

Maximum Power Spectral Density   Test Mode: 802.11ax HE20   &   ANT 2   &   T26   &   0RU   &   Ch.144

Maximum Power Spectral Density　　Test Mode: 802.11ax HE20　&　ANT 2　&　T26　&　4RU　&　Ch.149

Maximum Power Spectral Density　　Test Mode: 802.11ax HE20　&　ANT 2　&　T26　&　8RU　&　Ch.157

Maximum Power Spectral Density   Test Mode: 802.11ax HE20 & ANT 2 & T26 & 0RU & Ch.165

Maximum Power Spectral Density   Test Mode: 802.11ax HE40   &   ANT 2   &   T26   &   8RU   &   Ch.38

Maximum Power Spectral Density   Test Mode: 802.11ax HE40   &   ANT 2   &   T26   &   8RU   &   Ch.46
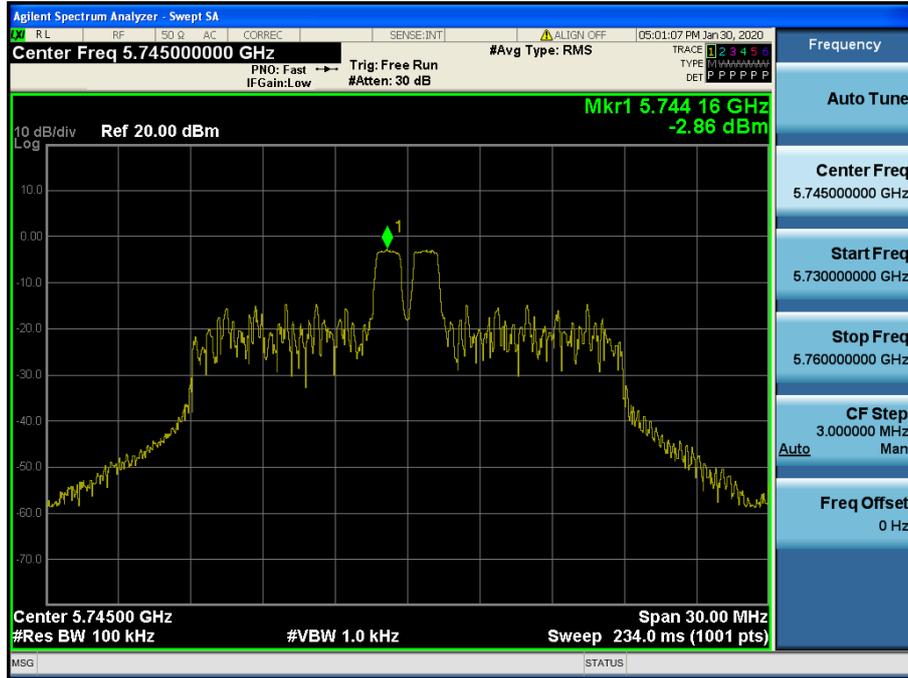
Dt&C

Maximum Power Spectral Density　　Test Mode: 802.11ax HE40　&　ANT 2　&　T26　&　8RU　&　Ch.54

Maximum Power Spectral Density　　Test Mode: 802.11ax HE40　&　ANT 2　&　T26　&　8RU　&　Ch.62

Maximum Power Spectral Density　　　Test Mode: 802.11ax HE40　&　ANT 2　&　T26　&　8RU　&　Ch.102

Maximum Power Spectral Density　　　Test Mode: 802.11ax HE40　&　ANT 2　&　T26　&　8RU　&　Ch.118

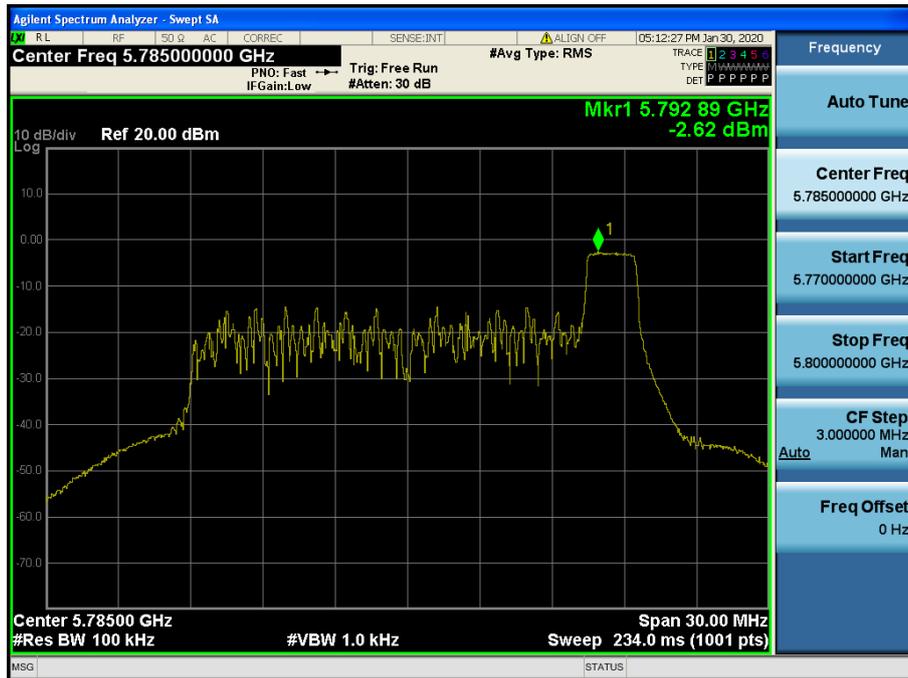**Maximum Power Spectral Density** Test Mode: 802.11ax HE40 & ANT 2 & T26 & 8RU & Ch.142

Maximum Power Spectral Density　　　Test Mode: 802.11ax HE40　&　ANT 2　&　T26　&　8RU　&　Ch.151

Maximum Power Spectral Density　　　Test Mode: 802.11ax HE40　&　ANT 2　&　T26　&　8RU　&　Ch.159

Maximum Power Spectral Density　　　Test Mode: 802.11ax HE80　&　ANT 2　&　T26　&　36RU　&　Ch.42
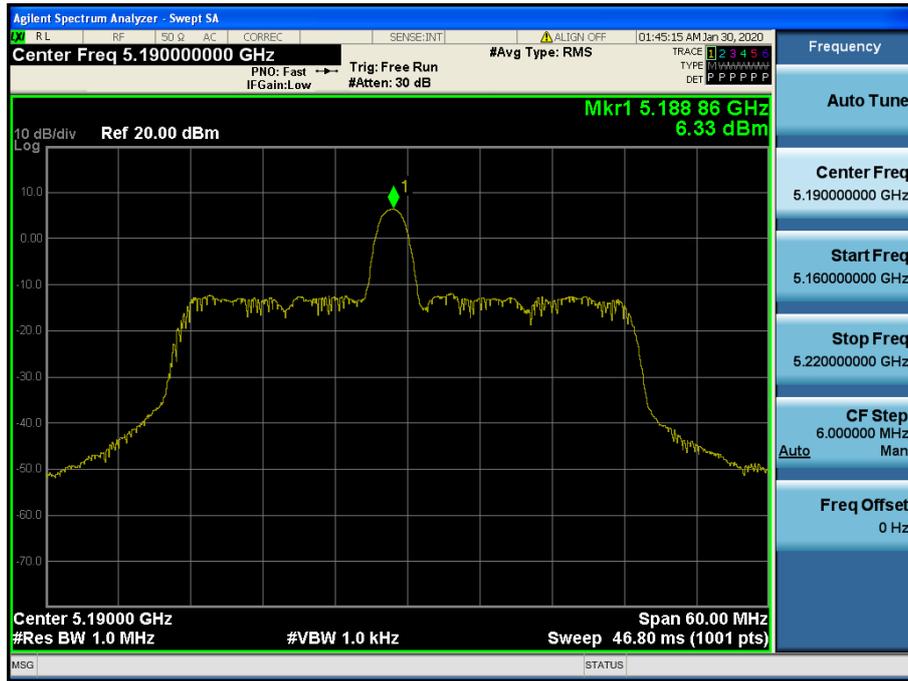

Maximum Power Spectral Density　　　Test Mode: 802.11ax HE80　&　ANT 2　&　T26　&　36RU　&　Ch.58

Maximum Power Spectral Density Test Mode: 802.11ax HE80 & ANT 2 & T26 & 36RU & Ch.106

Maximum Power Spectral Density Test Mode: 802.11ax HE80 & ANT 2 & T26 & 0RU & Ch.122
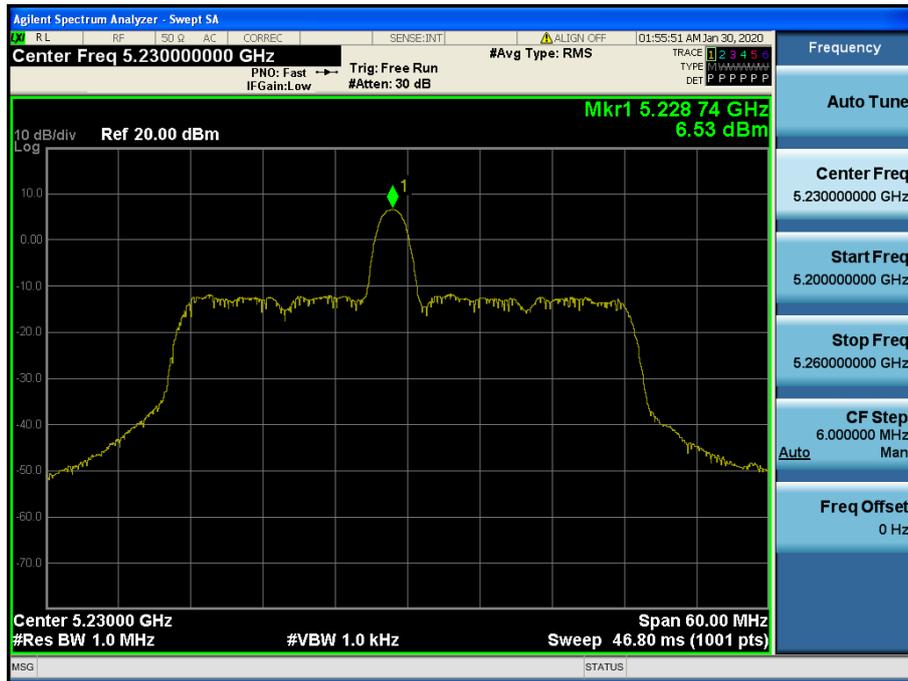
Maximum Power Spectral Density　　　Test Mode: 802.11ax HE80　&　ANT 2　&　T26　&　0RU　&　Ch.138

Maximum Power Spectral Density　　　Test Mode: 802.11ax HE80　&　ANT 2　&　T26　&　0RU　&　Ch.155

- Power spectral density: SDM-Antenna 1

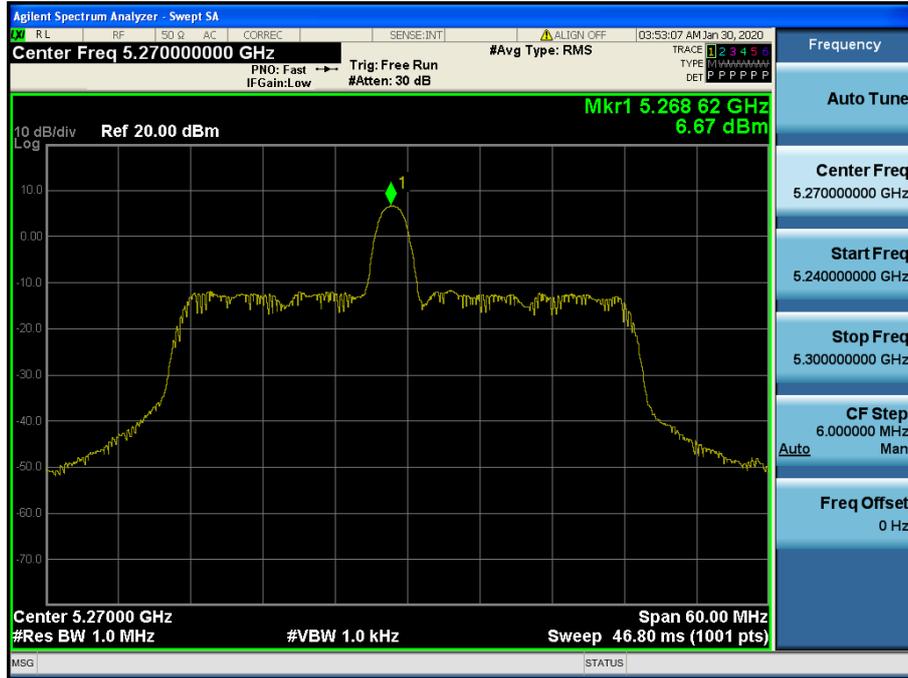**Maximum Power Spectral Density**   Test Mode: 802.11ax HE20   &   ANT 1   &   T26   &   0RU   &   Ch.36

Maximum Power Spectral Density   Test Mode: 802.11ax HE20   &   ANT 1   &   T26   &   8RU   &   Ch.40

Maximum Power Spectral Density   Test Mode: 802.11ax HE20   &   ANT 1   &   T26   &   8RU   &   Ch.48

Maximum Power Spectral Density　　Test Mode: 802.11ax HE20　&　ANT 1　&　T26　&　0RU　&　Ch.52
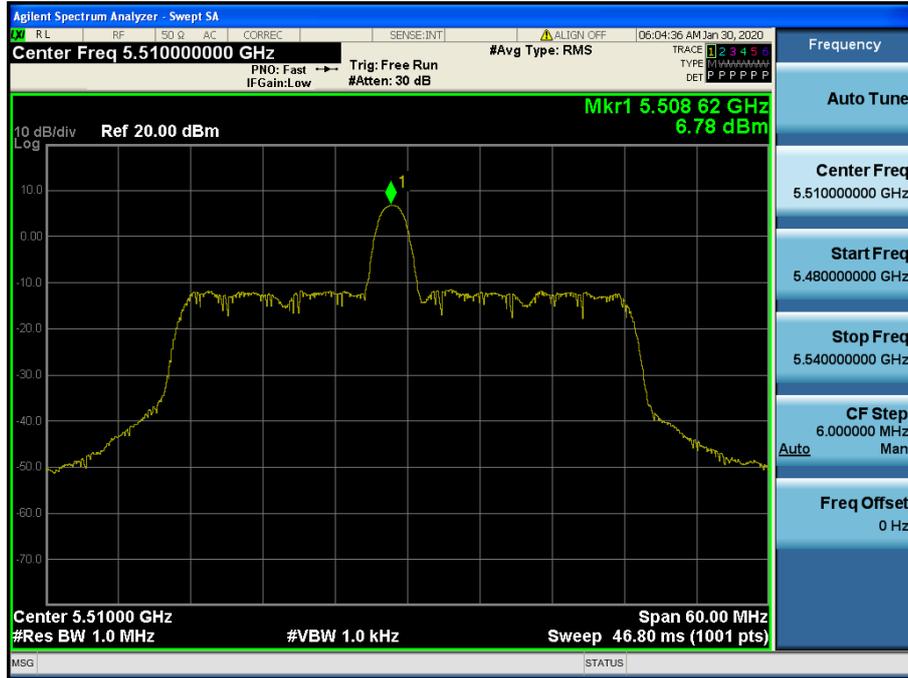

Maximum Power Spectral Density　　Test Mode: 802.11ax HE20　&　ANT 1　&　T26　&　8RU　&　Ch.60

Maximum Power Spectral Density　　Test Mode: 802.11ax HE20　&　ANT 1　&　T26　&　8RU　&　Ch.64

Maximum Power Spectral Density Test Mode: 802.11ax HE20 & ANT 1 & T26 & 8RU & Ch.100

Maximum Power Spectral Density Test Mode: 802.11ax HE20 & ANT 1 & T26 & 8RU & Ch.120

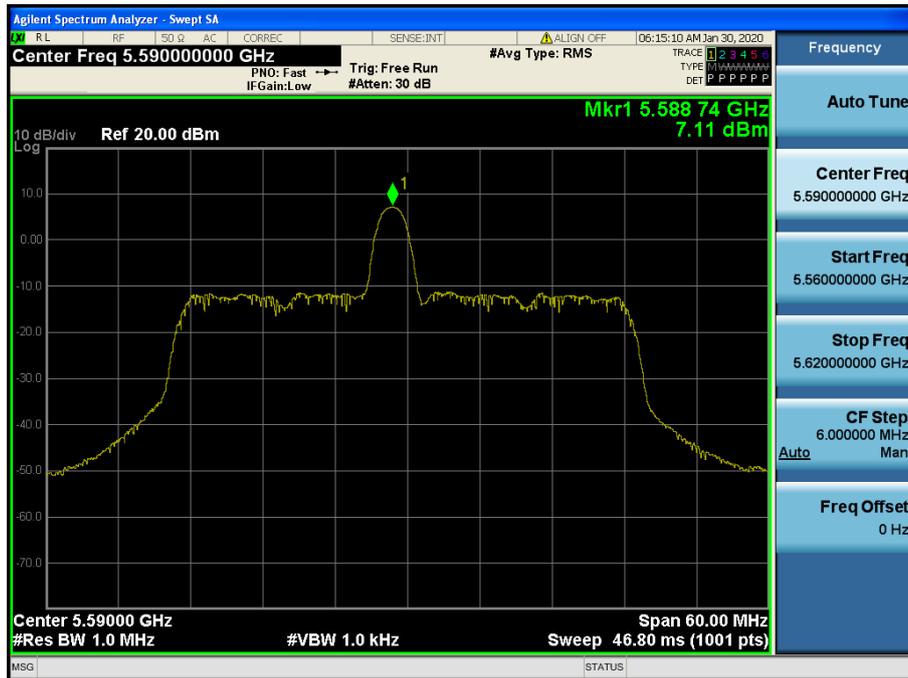**Maximum Power Spectral Density**   Test Mode: 802.11ax HE20   &   ANT 1   &   T26   &   8RU   &   Ch.144

Maximum Power Spectral Density   Test Mode: 802.11ax HE20   &   ANT 1   &   T26   &   8RU   &   Ch.149

Maximum Power Spectral Density   Test Mode: 802.11ax HE20   &   ANT 1   &   T26   &   0RU   &   Ch.157

Maximum Power Spectral Density   Test Mode: 802.11ax HE20   &   ANT 1   &   T26   &   0RU   &   Ch.165

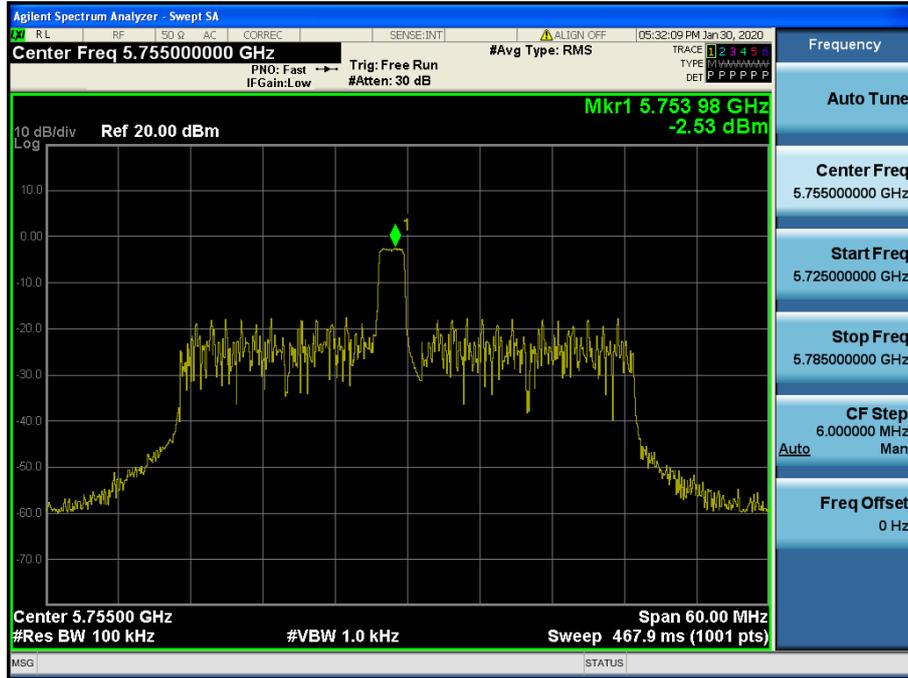**Maximum Power Spectral Density**   Test Mode: 802.11ax HE40   &   ANT 1   &   T26   &   8RU   &   Ch.38

Maximum Power Spectral Density   Test Mode: 802.11ax HE40   &   ANT 1   &   T26   &   0RU   &   Ch.46
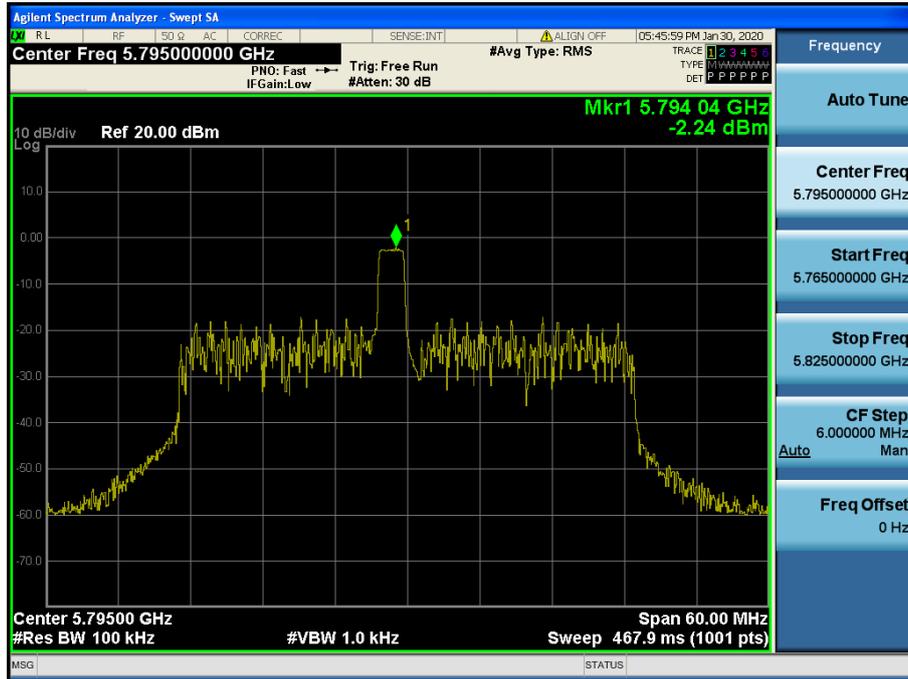
Maximum Power Spectral Density   Test Mode: 802.11ax HE40   &   ANT 1   &   T26   &   8RU   &   Ch.54

Maximum Power Spectral Density   Test Mode: 802.11ax HE40   &   ANT 1   &   T26   &   8RU   &   Ch.62

Maximum Power Spectral Density　　Test Mode: 802.11ax HE40　&　ANT 1　&　T26　&　8RU　&　Ch.102

Maximum Power Spectral Density　　Test Mode: 802.11ax HE40　&　ANT 1　&　T26　&　8RU　&　Ch.118

Maximum Power Spectral Density   Test Mode: 802.11ax HE40 & ANT 1 & T26 & 8RU & Ch.142

Maximum Power Spectral Density   Test Mode: 802.11ax HE40   &   ANT 1   &   T26   &   0RU   &   Ch.151
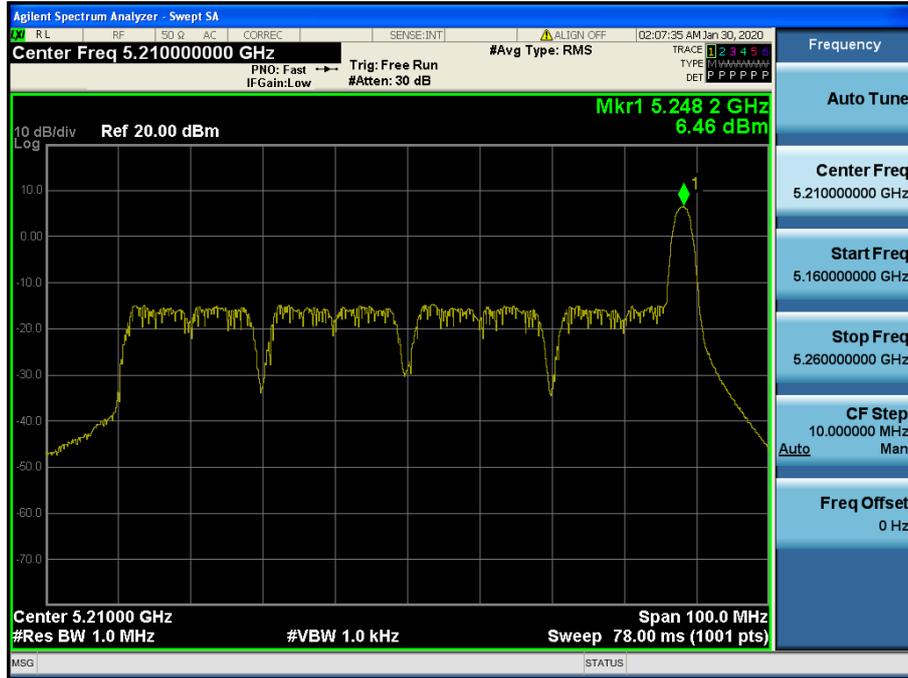

Maximum Power Spectral Density   Test Mode: 802.11ax HE40   &   ANT 1   &   T26   &   0RU   &   Ch.159

Maximum Power Spectral Density Test Mode: 802.11ax HE80 & ANT 1 & T26 & 0RU & Ch.42

Maximum Power Spectral Density Test Mode: 802.11ax HE80 & ANT 1 & T26 & 0RU & Ch.58

Maximum Power Spectral Density　　Test Mode: 802.11ax HE80　&　ANT 1　&　T26　&　36RU　&　Ch.106
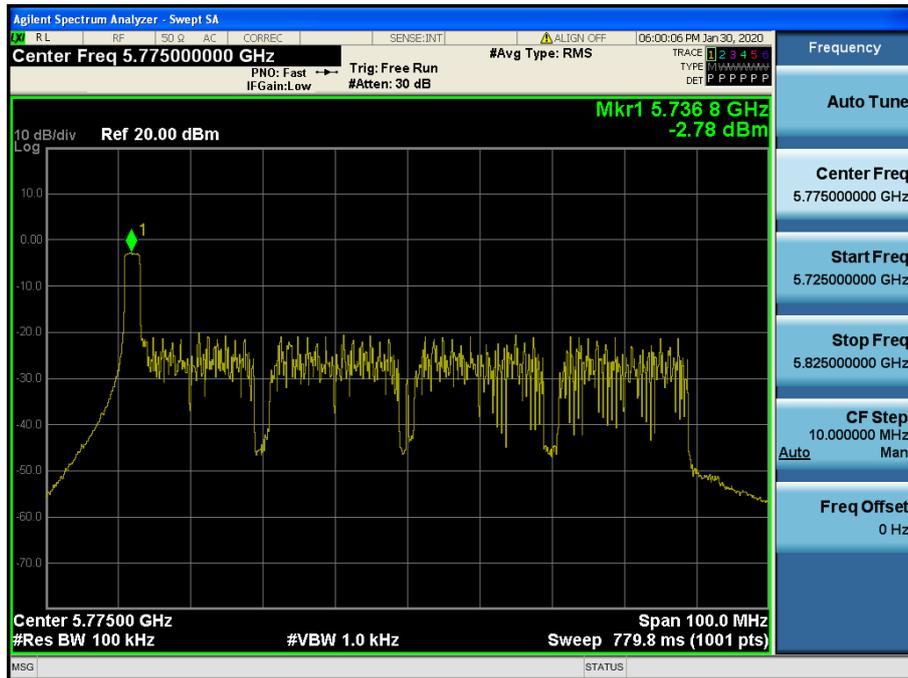

Maximum Power Spectral Density　　Test Mode: 802.11ax HE80　&　ANT 1　&　T26　&　36RU　&　Ch.122

Maximum Power Spectral Density   Test Mode: 802.11ax HE80 & ANT 1 & T26 & 0RU & Ch.138

Maximum Power Spectral Density   Test Mode: 802.11ax HE80 & ANT 1 & T26 & 0RU & Ch.155

- Power spectral density: SDM-Antenna 2

Maximum Power Spectral Density　　　Test Mode: 802.11ax HE20　&　ANT 2　&　T26　&　8RU　&　　Ch.36

Maximum Power Spectral Density　　　Test Mode: 802.11ax HE20　&　ANT 2　&　T26　&　8RU　&　Ch.40

Maximum Power Spectral Density

Test Mode: 802.11ax HE20 & ANT 2 & T26 & 8RU & Ch.48

Maximum Power Spectral Density　　Test Mode: 802.11ax HE20　&　ANT 2　&　T26　&　8RU　&　Ch.52

Maximum Power Spectral Density　　Test Mode: 802.11ax HE20　&　ANT 2　&　T26　&　8RU　&　Ch.60

Maximum Power Spectral Density   Test Mode: 802.11ax HE20   &   ANT 2   &   T26   &   8RU   &   Ch.64

Maximum Power Spectral Density   Test Mode: 802.11ax HE20 & ANT 2 & T26 & 8RU & Ch.100

Maximum Power Spectral Density   Test Mode: 802.11ax HE20 & ANT 2 & T26 & 0RU & Ch.120
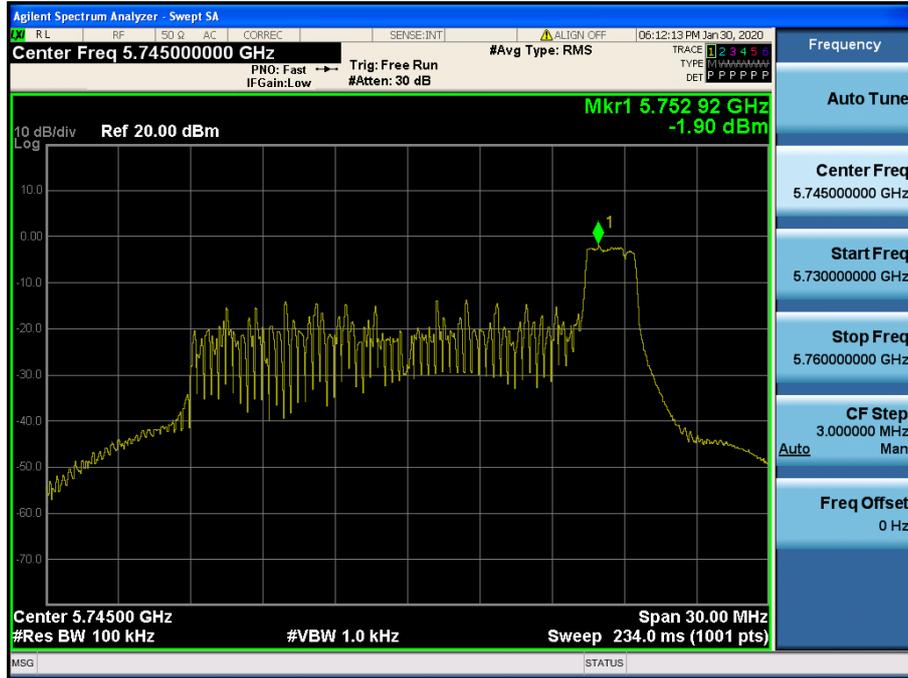
Maximum Power Spectral Density   Test Mode: 802.11ax HE20 & ANT 2 & T26 & 0RU & Ch.144

Maximum Power Spectral Density   Test Mode: 802.11ax HE20 & ANT 1 & T26 & 0RU & Ch.149

Maximum Power Spectral Density   Test Mode: 802.11ax HE20 & ANT 2 & T26 & 0RU & Ch.157

Maximum Power Spectral Density   Test Mode: 802.11ax HE20 & ANT 2 & T26 & 0RU & Ch.165

Maximum Power Spectral Density   Test Mode: 802.11ax HE40   &   ANT 2   &   T26   &   8RU   &   Ch.38
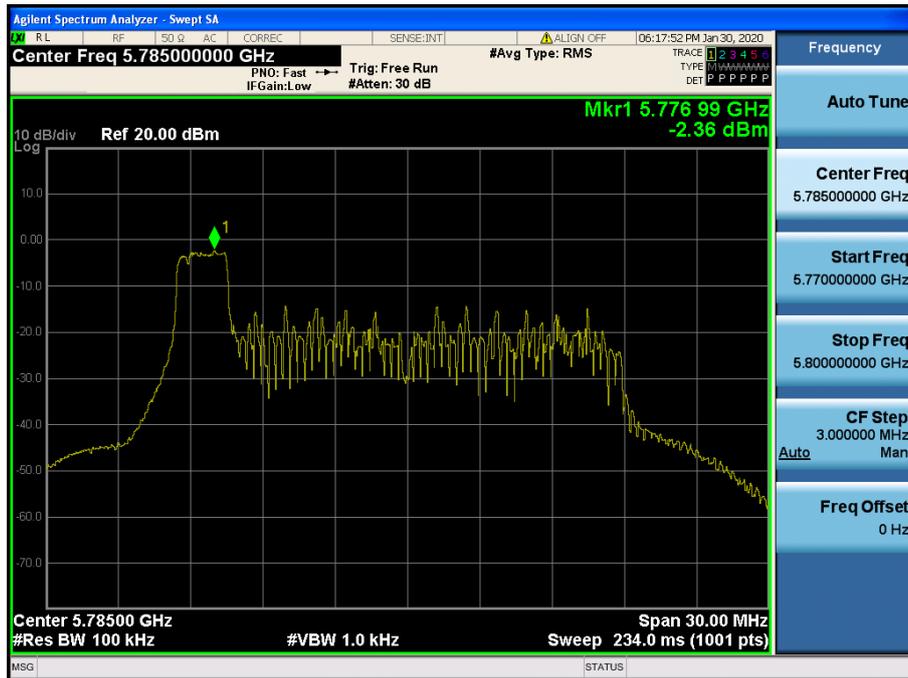

Maximum Power Spectral Density   Test Mode: 802.11ax HE40   &   ANT 2   &   T26   &   8RU   &   Ch.46
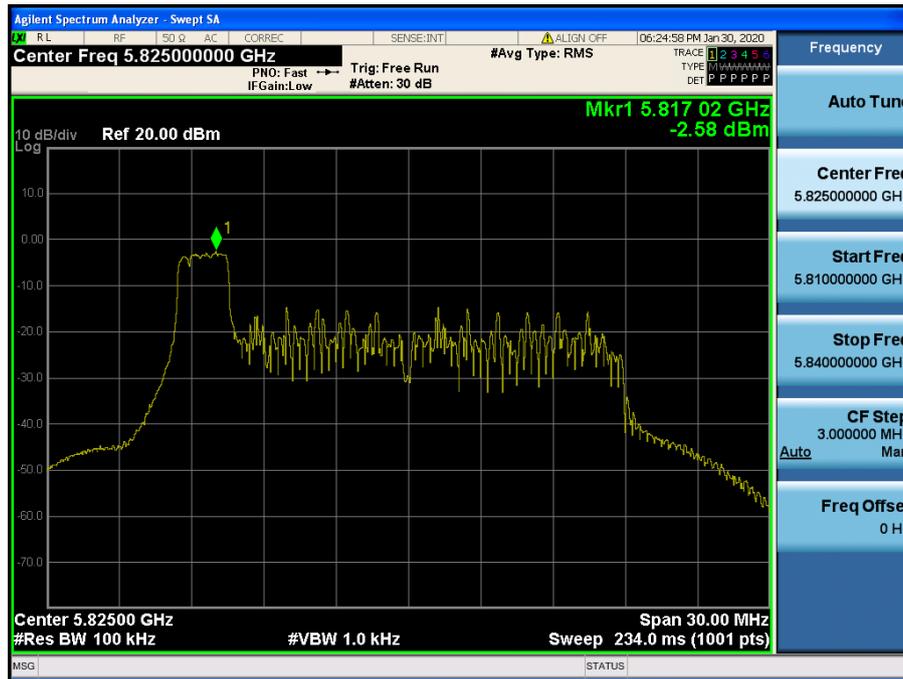
Maximum Power Spectral Density   Test Mode: 802.11ax HE40   &   ANT 2   &   T26   &   8RU   &   Ch.54

Maximum Power Spectral Density   Test Mode: 802.11ax HE40   &   ANT 2   &   T26   &   8RU   &   Ch.62

Maximum Power Spectral Density   Test Mode: 802.11ax HE40   &   ANT 2   &   T26   &   8RU   &   Ch.102

Maximum Power Spectral Density   Test Mode: 802.11ax HE40   &   ANT 2   &   T26   &   8RU   &   Ch.118
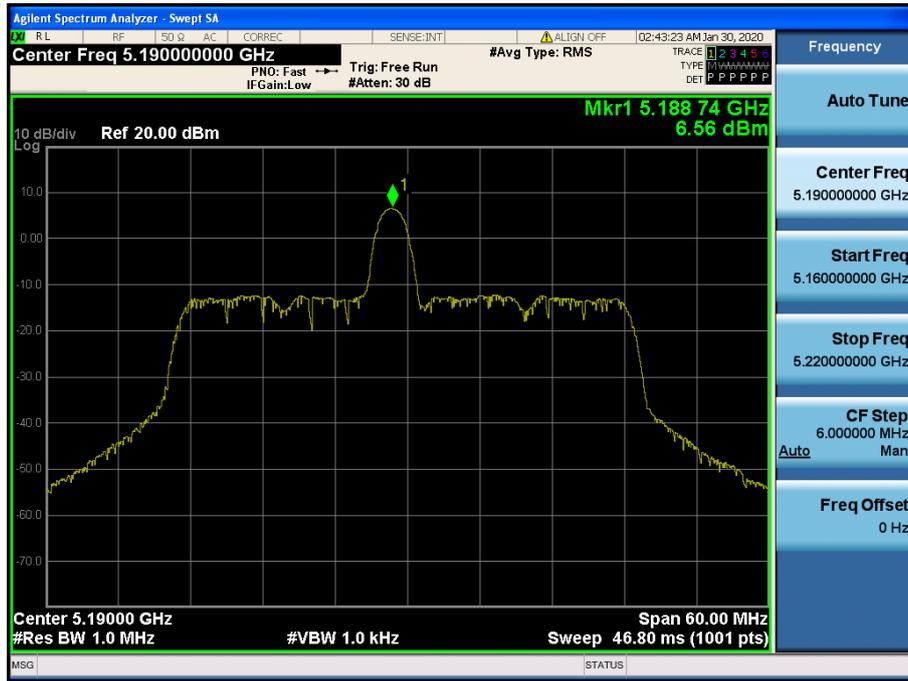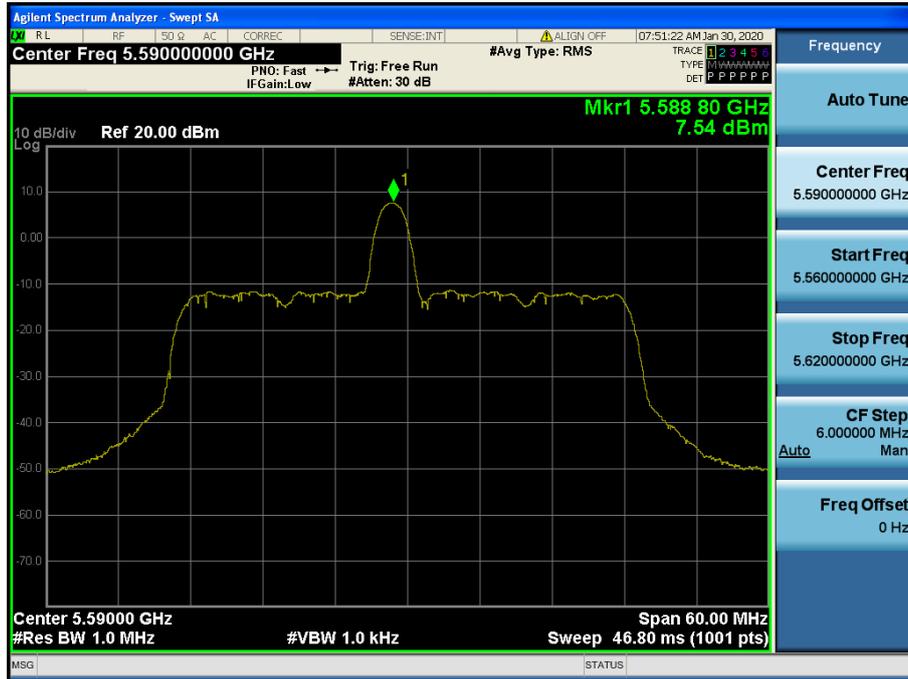
Maximum Power Spectral Density　　Test Mode: 802.11ax HE40　&　ANT 2　&　T26　&　8RU　&　Ch.142

Maximum Power Spectral Density　　Test Mode: 802.11ax HE40　&　ANT 2　&　T26　&　8RU　&　Ch.151

Maximum Power Spectral Density　　Test Mode: 802.11ax HE40　&　ANT 2　&　T26　&　8RU　&　Ch.159
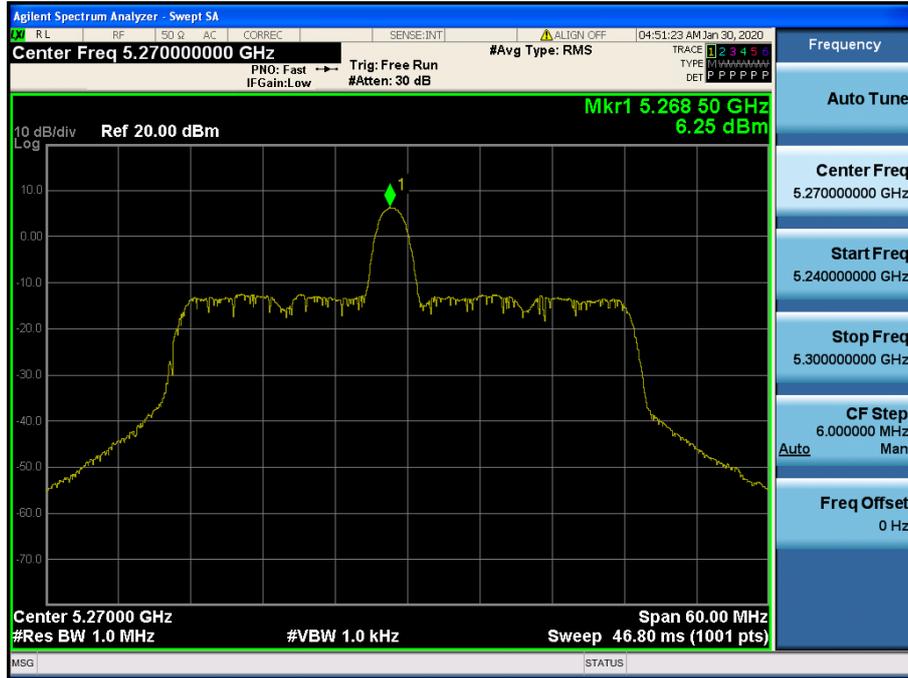
Maximum Power Spectral Density   Test Mode: 802.11ax HE80   &   ANT 2   &   T26   &   36RU   &   Ch.42

Maximum Power Spectral Density   Test Mode: 802.11ax HE80   &   ANT 2   &   T26   &   0RU   &   Ch.58

Maximum Power Spectral Density   Test Mode: 802.11ax HE80   &   ANT 2   &   T26   &   36RU   &   Ch.106
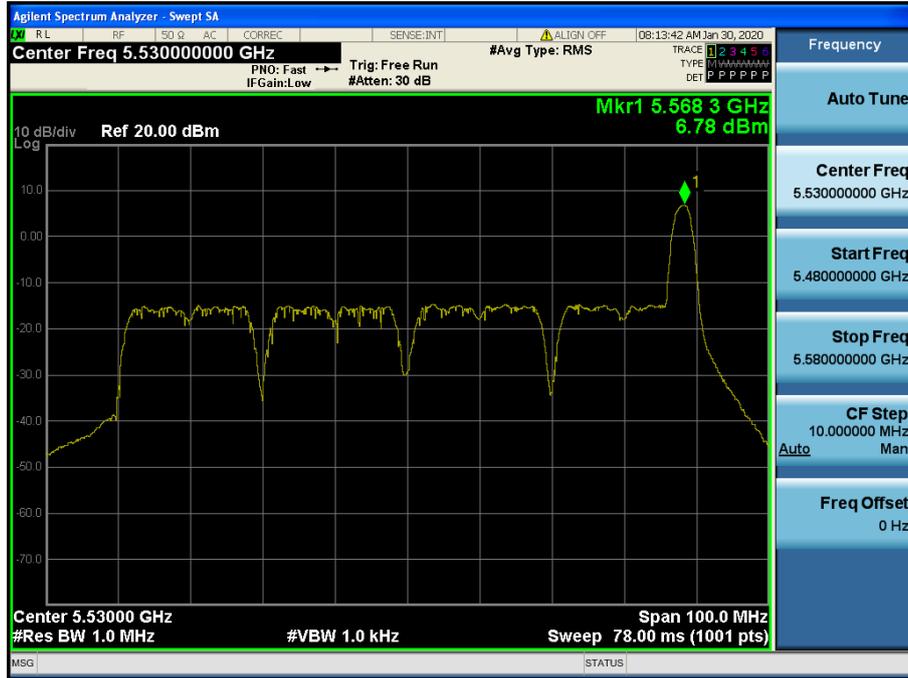
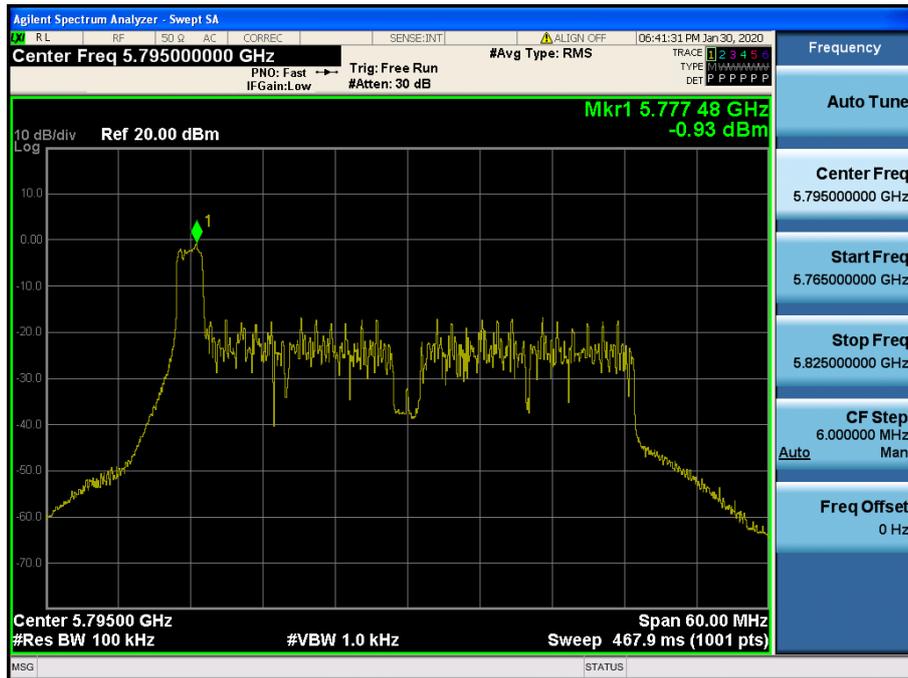
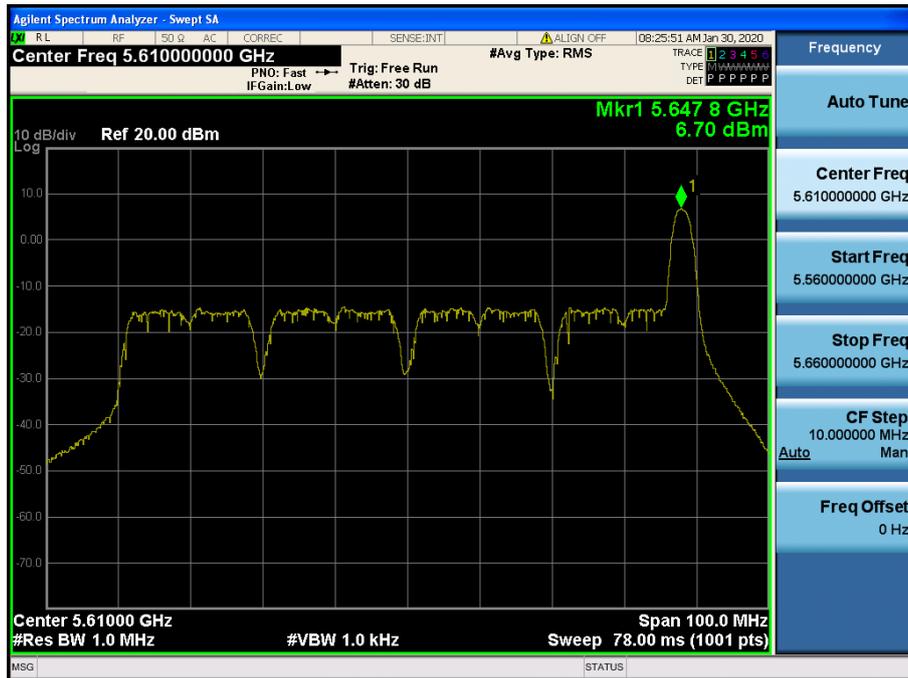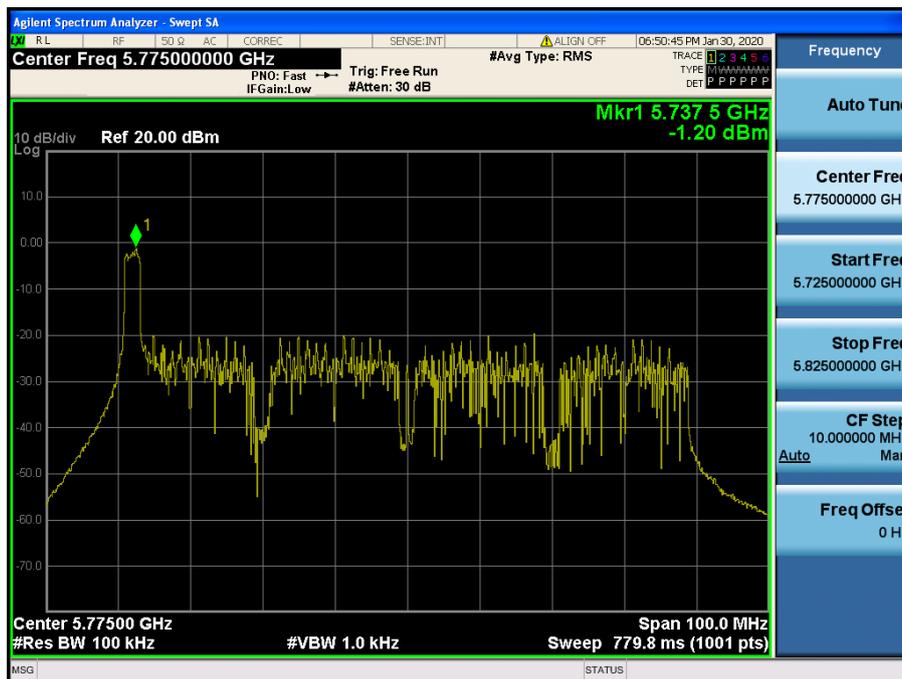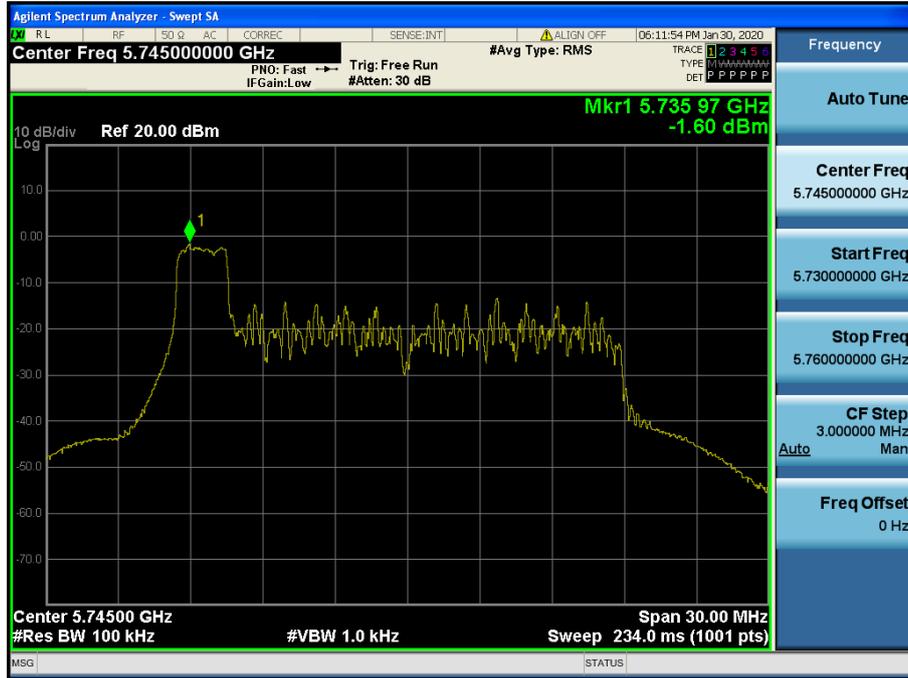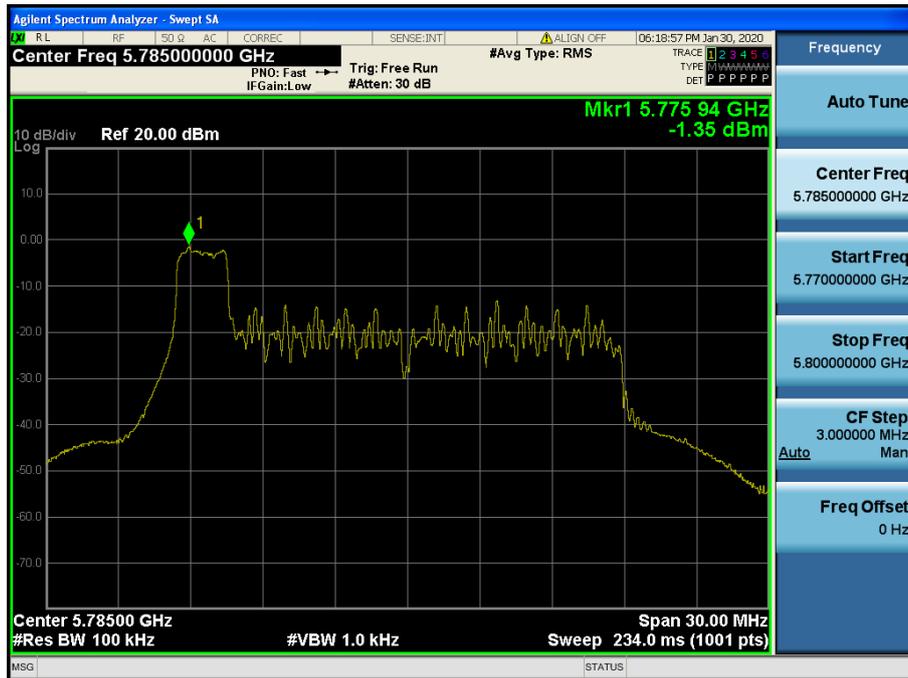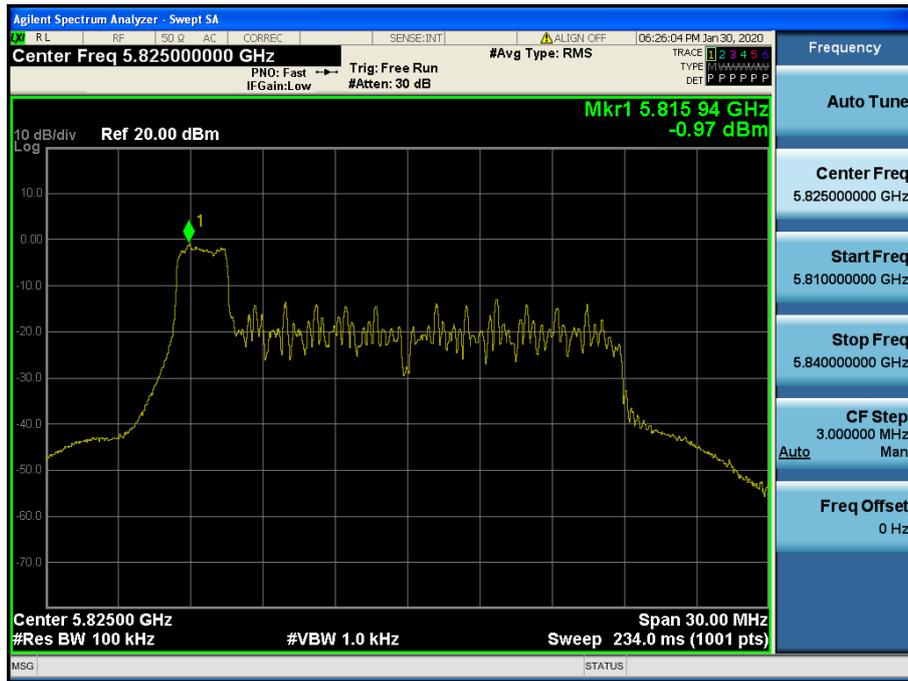**Maximum Power Spectral Density**   Test Mode: 802.11ax HE80   &   ANT 2   &   T26   &   0RU   &   Ch.122

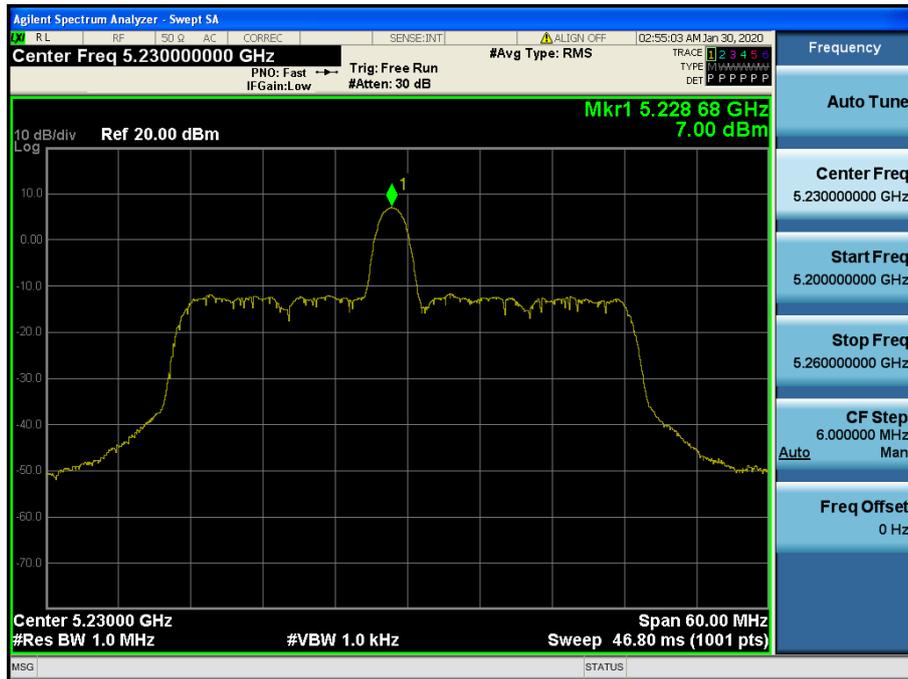**Maximum Power Spectral Density**   Test Mode: 802.11ax HE80   &   ANT 2   &   T26   &   0RU   &   Ch.138

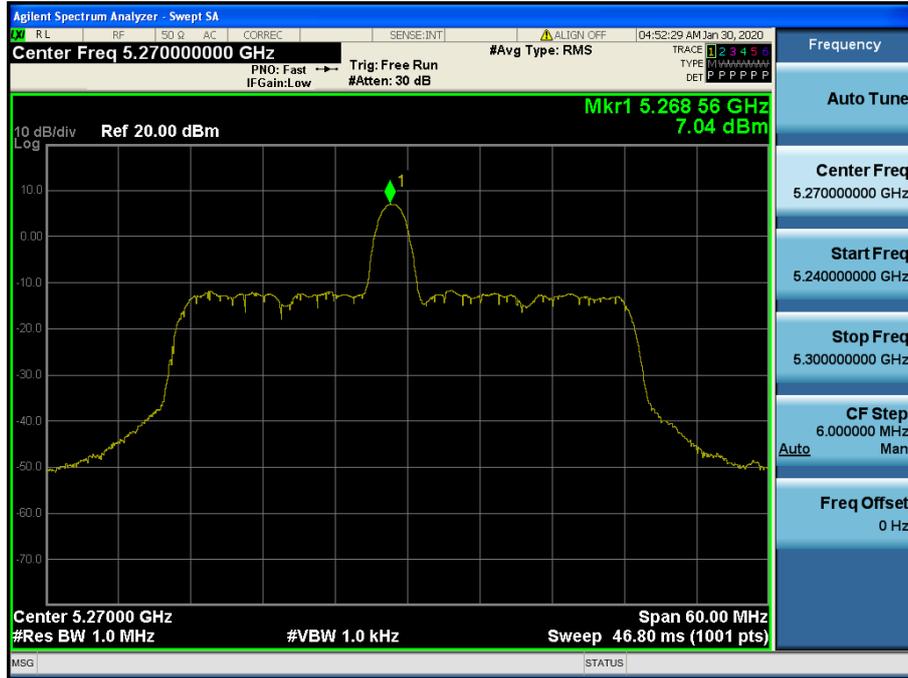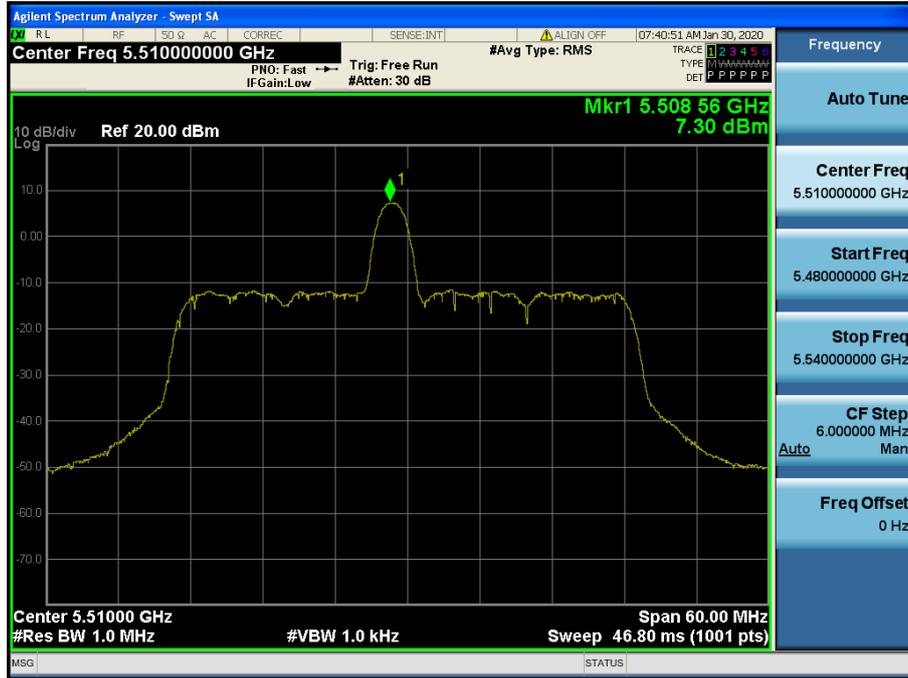**Maximum Power Spectral Density**   Test Mode: 802.11ax HE80   &   ANT 2   &   T26   &   0RU   &   Ch.155
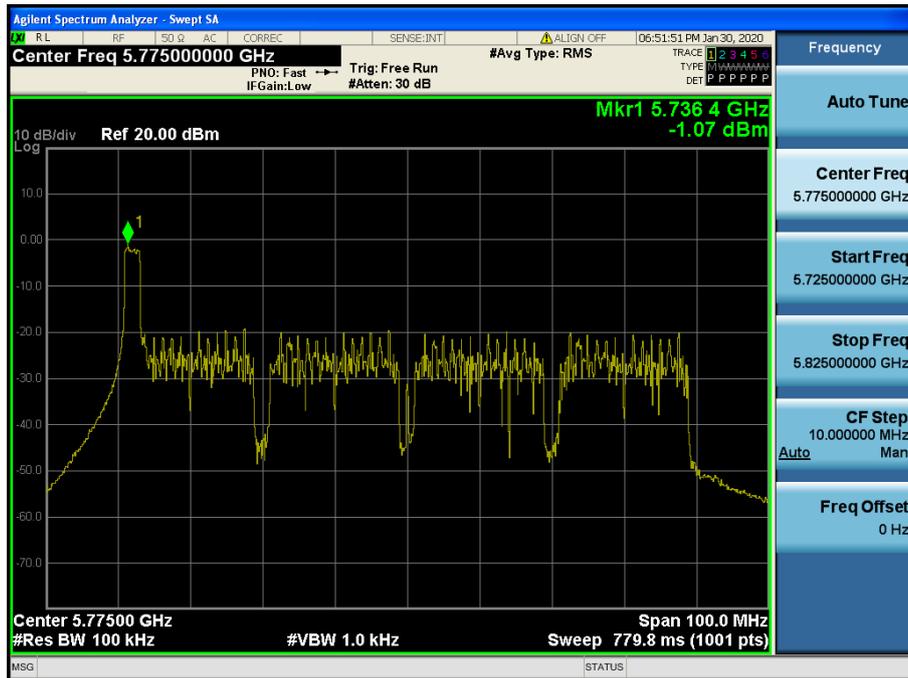
8.5 Radiated Spurious Emission Measurements

▣ **Test Requirements**

▪ **FCC Part 15.209(a) and (b)**

Frequency (MHz)	Limit (uV/m)	Measurement Distance (meter)
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
Above 960	500	3

** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this
Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or
470-806 MHz. However, operation within these frequency bands is permitted under other sections of this
Part, e.g. 15.231 and 15.241.

▪ **FCC Part 15.205 (a):** Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.41425 ~ 8.41475	108 ~ 121.94	1300 ~ 1427	4.5 ~ 5.15	14.47 ~ 14.5
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1435 ~ 1626.5	5.35 ~ 5.46	15.35 ~ 16.2
2.1735 ~ 2.1905	12.51975 ~	149.9 ~ 150.05	1645.5 ~ 1646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.52025	160.52475 ~	1660 ~ 1710	8.025 ~ 8.5	22.01 ~ 23.12
4.17725 ~ 4.17775	12.57675 ~	160.52525	1718.8 ~ 1722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.20725 ~ 4.20775	12.57725	160.7 ~ 160.9	2200 ~ 2300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	13.36 ~ 13.41	162.0125 ~ 167.17	2310 ~ 2390	10.6 ~ 12.7	36.43 ~ 36.5
6.26775 ~ 6.26825	16.42 ~ 16.423	167.72 ~ 173.2	2483.5 ~ 2500	13.25 ~ 13.4	Above 38.6
6.31175 ~ 6.31225	16.69475 ~	240 ~ 285	2655 ~ 2900		
8.291 ~ 8.294	16.69525	322 ~ 335.4	3260 ~ 3267		
8.362 ~ 8.366	16.80425 ~	399.90 ~ 410	3332 ~ 3339		
8.37625 ~ 8.38675	16.80475	608 ~ 614	3345.8 ~ 3358		
	25.5 ~ 25.67	960 ~ 1240	3600 ~ 4000		
	37.5 ~ 38.25				
	73 ~ 74.6				
	74.8 ~ 75.2				

▪ **FCC Part 15.205(b):** The field strength of emissions appearing within these frequency bands shall not exceed the
limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be
demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz,
compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured
emissions. The provisions in §15.35 apply to these measurements.

▪ **FCC Part 15.407 (b):** Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions
outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the **5.15-5.25 GHz band**: all emissions outside of the **5.15-5.35 GHz band** shall not
exceed an **EIRP of -27 dBm/MHz**.
(2) For transmitters operating in the **5.25-5.35 GHz band**: all emissions outside of the **5.15-5.35 GHz band** shall not
exceed an **EIRP of -27 dBm/MHz**.
(3) For transmitters operating in the **5.47-5.725 GHz band**: all emissions outside of the **5.47-5.725 GHz band** shall not
exceed an **EIRP of -27 dBm/MHz.**
(4) For transmitters operating in the **5.725-5.85 GHz band**: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or
more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25
MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and
from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth
may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power
over 1 MHz.
(6) Unwanted emissions **below 1 GHz** must comply with the general field strength limits set forth in **Section 15.209**.
Further, any U-NII devices using an **AC power line** are required to comply also with the conducted limits set forth in **Section
15.207**.
(7) The provisions of §15.205 apply to intentional radiators operating under this section
(8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency
band edges as the design of the equipment permits.

◉ **Test Configuration**

Below 1GHz	Above 1GHz
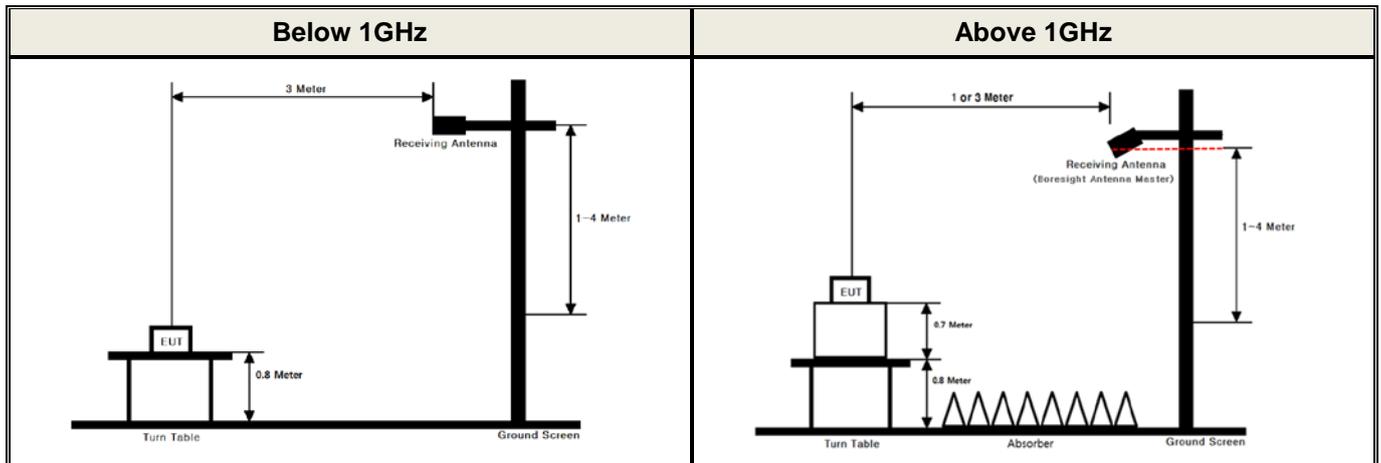
◉ **Test Procedure**

1. The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m.
2. The turn table shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 1m or 3 m away from the receiving antenna, which is varied from 1m to 4 m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

Radiated spurious emission measured using following Measurement Procedure **of KDB789033 D02v02r01**

► **General Requirements for Unwanted Emissions Measurements**

The following requirements apply to all unwanted emissions measurements, both in and outside of the restricted bands:

▪ EUT Duty Cycle

(1) The EUT shall be configured or modified to **transmit continuously** except as stated in (ii), below. The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (**to no lower than 98 percent**) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

(2) If **continuous transmission (or at least 98 percent duty cycle) cannot be achieved** due to hardware limitations of the EUT (e.g., overheating), the following additions to the measurement and reporting procedures are required:

• The EUT shall be configured to operate at the maximum achievable duty cycle.
• Measure the duty cycle, x, of the transmitter output signal.
• Adjustments to measurement procedures (e.g., increasing test time and number of traces averaged) shall be performed as described in the procedures below.
• The test report shall include the following additional information:
  ◦ The reason for the duty cycle limitation.
  ◦ The duty cycle achieved for testing and the associated transmit duration and interval between transmissions.
  ◦ The sweep time and the amount of time used for trace stabilization during max-hold measurements for peak emission measurements.

(3) Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

► **Measurements below 1000 MHz**

   a) Follow the requirements in section II.G.3, "General Requirements for Unwanted Emissions Measurements".

   b) Compliance shall be demonstrated using **CISPR quasi-peak detection**; however, **peak detection** is permitted as an alternative to quasi-peak detection.

► **Measurements Above 1000 MHz (Peak)**

   a) Follow the requirements in section II.G.3, "General Requirements for Unwanted Emissions Measurements".

   b) Peak emission levels are measured by setting the analyzer as follows:

     (i) **RBW = 1 MHz.**

     (ii) **VBW ≥ 3 MHz.**

     (iii) **Detector = Peak.**

     (iv) Sweep time = Auto.

     (v) Trace mode = Max hold.

     (vi) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately $1/x$, where x is the duty cycle. For example, at 50 percent duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

► **Measurements Above 1000 MHz (Method –VB-A)**

   a) **RBW = 1 MHz.**

   b) Video bandwidth:

     (i) If the EUT is configured to transmit with D ≥ 98%, then set VBW ≤ RBW / 100 (i.e., 10 kHz), but not less than 10 Hz.

     (ii) **If the EUT D is < 98%, then set VBW ≥ 1 / T**, where T is defined in item a1) of 12.2.

   c) Video bandwidth mode or display mode:

     (i) The instrument shall be set with video filtering applied in the power domain. Typically, this requires setting the detector mode to RMS (power averaging) and setting the average-VBW type to power (rms).

     (ii) As an alternative, the instrument may be set to linear detector mode. Video filtering shall be applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode to \ accomplish this. Others have a setting for average-VBW type, which can be set to "voltage" regardless of the display mode.

   d) **Detector = peak**.

   e) Sweep time = auto.

   f) Trace mode = max hold.

   g) Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98% duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of $1/x$, where D is the duty cycle. For example, use at least 200 traces if the duty cycle is 25%. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 50 traces should be averaged.)

Please refer to Appendix I for the 1 / T

◼ **Test Results**

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CDD) & 802.11ax HE20_Normal*

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1	36 (5180 MHz)	SU	N/A	5149.72	H	Z	PK	49.78	2.09	N/A	51.87	74.00	22.13
		SU	N/A	5149.76	H	Z	AV	39.46	2.09	N/A	41.55	54.00	12.45
		242	61	5148.04	H	Z	PK	48.39	2.09	N/A	50.48	74.00	23.52
		242	61	5148.87	H	Z	AV	38.18	2.09	N/A	40.27	54.00	13.73
		26	0	5126.16	H	Z	PK	50.56	2.14	N/A	52.70	74.00	21.30
		26	0	5126.14	H	Z	AV	38.35	2.14	N/A	40.49	54.00	13.51
		SU	N/A	10355.70	V	X	PK	47.69	11.25	N/A	58.94	68.20	9.26
		26	8	10376.38	V	X	PK	48.42	11.19	N/A	59.61	68.20	8.59
	40 (5200 MHz)	SU	N/A	10397.51	V	X	PK	46.55	11.13	N/A	57.68	68.20	10.52
		26	8	10416.91	V	X	PK	48.05	11.15	N/A	59.20	68.20	9.00
	48 (5240 MHz)	SU	N/A	10475.05	V	X	PK	46.51	11.16	N/A	57.67	68.20	10.53
		26	8	10497.19	V	X	PK	48.76	11.14	N/A	59.90	68.20	8.30
U-NII 2A	52 (5260 MHz)	SU	N/A	10518.12	V	X	PK	46.83	11.14	N/A	57.97	68.20	10.23
		26	8	10536.78	V	X	PK	47.09	11.14	N/A	58.23	68.20	9.97
	60 (5300 MHz)	SU	N/A	10596.53	V	X	PK	45.44	11.23	N/A	56.67	68.20	11.53
		SU	N/A	10603.70	V	X	PK	45.92	11.23	N/A	57.15	74.00	16.85
		SU	N/A	10601.73	V	X	AV	34.77	11.24	N/A	46.01	54.00	7.99
		26	0	10583.03	V	X	PK	47.32	11.21	N/A	58.53	68.20	9.67
		26	8	10616.35	V	X	PK	47.36	11.21	N/A	58.57	74.00	15.43
		26	8	10616.84	V	X	AV	35.80	11.21	N/A	47.01	54.00	6.99
	64 (5320 MHz)	SU	N/A	5350.70	H	Z	PK	49.41	4.13	N/A	53.54	74.00	20.46
		SU	N/A	5350.31	H	Z	AV	38.75	4.13	N/A	42.88	54.00	11.12
		242	61	5353.77	H	Z	PK	48.62	4.14	N/A	52.76	74.00	21.24
		242	61	5353.39	H	Z	AV	38.31	4.14	N/A	42.45	54.00	11.55
		26	8	5351.83	H	Z	PK	50.25	4.13	N/A	54.38	74.00	19.62
		26	8	5351.67	H	Z	AV	40.10	4.13	N/A	44.23	54.00	9.77
		SU	N/A	10645.33	H	Z	PK	45.74	11.15	N/A	56.89	74.00	17.11
		SU	N/A	10647.46	V	X	AV	34.09	11.15	N/A	45.24	54.00	8.76
		26	8	10656.26	V	X	PK	47.15	11.16	N/A	58.31	74.00	15.69
		26	8	10656.89	V	X	AV	35.87	11.16	N/A	47.03	54.00	6.97

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

   Margin = Limit – Result   /   Result = Reading + T.F+ DCF   /   T.F = AF + CL – AG

   Where, T.F = Total Factor,   AF = Antenna Factor,   CL = Cable Loss,   AG = Amplifier Gain,

   DCF = Distance Correction Factor

3. Information of Distance Factor

   For finding emissions, the test distance might be reduced from 3m to 1m.   In this case, the distance factor(-9.54dB) is applied to the result.

   - Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB

   When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CDD) & 802.11ax HE20_Normal*

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 2C	100 (5500 MHz)	SU	N/A	5459.65	H	Z	PK	48.86	4.29	N/A	53.15	74.00	20.85
		SU	N/A	5459.92	H	Z	AV	38.52	4.29	N/A	42.81	54.00	11.19
		SU	N/A	5463.59	H	Z	PK	48.70	4.28	N/A	52.98	68.20	15.22
		242	61	5458.22	H	Z	PK	48.72	4.30	N/A	53.02	74.00	20.98
		242	61	5459.75	H	Z	AV	38.03	4.29	N/A	42.32	54.00	11.68
		242	61	5464.11	H	Z	PK	47.52	4.27	N/A	51.79	68.20	16.41
		26	0	5458.63	H	Z	PK	49.80	4.30	N/A	54.10	74.00	19.90
		26	0	5458.94	H	Z	AV	40.11	4.29	N/A	44.40	54.00	9.60
		26	0	5467.30	H	Z	PK	49.75	4.26	N/A	54.01	68.20	14.19
		SU	N/A	10998.47	V	X	PK	45.90	11.35	N/A	57.25	74.00	16.75
		SU	N/A	11000.29	V	X	AV	35.15	11.35	N/A	46.50	54.00	7.50
		26	8	11016.91	V	X	PK	49.33	11.38	N/A	60.71	74.00	13.29
		26	8	11016.81	V	X	AV	37.44	11.38	N/A	48.82	54.00	5.18
	120 (5600 MHz)	SU	N/A	11197.89	V	X	PK	48.22	11.47	N/A	59.69	74.00	14.31
		SU	N/A	11197.21	V	X	AV	35.90	11.46	N/A	47.36	54.00	6.64
		26	8	11216.73	V	X	PK	48.94	11.47	N/A	60.41	74.00	13.59
		26	8	11216.75	V	X	AV	37.16	11.47	N/A	48.63	54.00	5.37
	144 (5720 MHz)	SU	N/A	11434.94	V	X	PK	45.40	11.41	N/A	56.81	74.00	17.19
		SU	N/A	11436.85	V	X	AV	34.42	11.41	N/A	45.83	54.00	8.17
		26	8	11456.46	V	X	PK	47.69	11.39	N/A	59.08	74.00	14.92
		26	8	11456.91	V	X	AV	35.49	11.39	N/A	46.88	54.00	7.12
U-NII 3	149 (5745 MHz)	SU	N/A	5714.16	H	Z	PK	49.06	3.87	N/A	52.93	68.20	15.27
		SU	N/A	5724.86	H	Z	PK	50.82	3.67	N/A	54.49	78.20	23.71
		242	61	5709.59	H	Z	PK	49.00	3.86	N/A	52.86	68.20	15.34
		242	61	5724.92	H	Z	PK	55.86	3.67	N/A	59.53	78.20	18.67
		26	0	5710.48	H	Z	PK	50.28	3.87	N/A	54.15	68.20	14.05
		26	0	5724.76	H	Z	PK	58.80	3.67	N/A	62.47	78.20	15.73
		SU	N/A	11488.12	V	X	PK	44.11	11.44	N/A	55.55	74.00	18.45
		SU	N/A	11486.52	V	X	AV	33.21	11.44	N/A	44.65	54.00	9.35
		26	8	11507.06	V	X	PK	48.70	11.50	N/A	60.20	74.00	13.80
		26	8	11506.85	V	X	AV	35.49	11.50	N/A	46.99	54.00	7.01
	157 (5785 MHz)	SU	N/A	11569.70	V	X	PK	44.57	11.75	N/A	56.32	74.00	17.68
		SU	N/A	11569.87	V	X	AV	33.37	11.75	N/A	45.12	54.00	8.88
		26	8	11587.05	V	X	PK	47.90	11.77	N/A	59.67	74.00	14.33
		26	8	11586.80	V	X	AV	35.76	11.77	N/A	47.53	54.00	6.47
	165 (5825 MHz)	SU	N/A	5858.65	H	Z	PK	49.42	4.52	N/A	53.94	78.20	24.26
		SU	N/A	5866.25	H	Z	PK	48.98	4.36	N/A	53.34	68.20	14.86
		242	61	5850.25	H	Z	PK	51.99	4.47	N/A	56.46	78.20	21.74
		242	61	5862.90	H	Z	PK	47.55	4.45	N/A	52.00	68.20	16.20
		26	8	5850.42	H	Z	PK	52.40	4.48	N/A	56.88	78.20	21.32
		26	8	5863.93	H	Z	PK	48.83	4.42	N/A	53.25	68.20	14.95
		SU	N/A	11647.25	V	X	PK	44.74	12.04	N/A	56.78	74.00	17.22
		SU	N/A	11648.15	V	X	AV	34.28	12.05	N/A	46.33	54.00	7.67
		26	8	11666.93	V	X	PK	46.57	12.11	N/A	58.68	74.00	15.32
		26	8	11667.08	V	X	AV	35.54	12.11	N/A	47.65	54.00	6.35

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

   Margin = Limit – Result   /   Result = Reading + T.F+ DCF   /   T.F = AF + CL – AG

   Where, T.F = Total Factor,   AF = Antenna Factor,   CL = Cable Loss,   AG = Amplifier Gain,

   DCF = Distance Correction Factor

3. Information of Distance Factor

   For finding emissions, the test distance might be reduced from 3m to 1m.   In this case, the distance factor(-9.54dB) is applied to the result.

   - Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB

   When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

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Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : _MIMO(CDD) & 802.11ax(HE40)_Normal_

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1	38 (5190 MHz)	SU	N/A	5149.90	H	Z	PK	49.16	2.09	N/A	51.25	74.00	22.75
		SU	N/A	5149.93	H	Z	AV	39.77	2.09	N/A	41.86	54.00	12.14
		484	65	5149.78	H	Z	PK	51.32	2.09	N/A	53.41	74.00	20.59
		484	65	5149.85	H	Z	AV	38.56	2.09	N/A	40.65	54.00	13.35
		26	0	5149.44	H	Z	PK	50.71	2.09	N/A	52.80	74.00	21.20
		26	0	5149.58	H	Z	AV	39.35	2.09	N/A	41.44	54.00	12.56
		SU	N/A	10381.00	V	X	PK	45.09	11.18	N/A	56.27	68.20	11.93
		26	17	10415.65	V	X	PK	48.41	11.14	N/A	59.55	68.20	8.65
	46 (5230 MHz)	SU	N/A	10461.35	V	X	PK	44.32	11.17	N/A	55.49	68.20	12.71
		26	17	10495.60	V	X	PK	49.38	11.14	N/A	60.52	68.20	7.68
U-NII 2A	54 (5270 MHz)	SU	N/A	10540.33	V	X	PK	44.05	11.14	N/A	55.19	68.20	13.01
		26	17	10575.12	V	X	PK	49.16	11.19	N/A	60.35	68.20	7.85
	62 (5310 MHz)	SU	N/A	5350.90	H	Z	PK	51.26	4.13	N/A	55.39	74.00	18.61
		SU	N/A	5350.04	H	Z	AV	40.07	4.13	N/A	44.20	54.00	9.80
		484	65	5351.34	H	Z	PK	54.65	4.13	N/A	58.78	74.00	15.22
		484	65	5350.66	H	Z	AV	38.94	4.13	N/A	43.07	54.00	10.93
		26	17	5350.52	H	Z	PK	51.39	4.13	N/A	55.52	74.00	18.48
		26	17	5350.80	H	Z	AV	40.10	4.13	N/A	44.23	54.00	9.77
		SU	N/A	10618.61	V	X	PK	43.38	11.21	N/A	54.59	74.00	19.41
		SU	N/A	10618.23	V	X	AV	32.08	11.21	N/A	43.29	54.00	10.71
		26	0	10583.85	V	X	PK	47.52	11.21	N/A	58.73	68.20	9.47
		26	17	10655.96	V	X	PK	47.96	11.16	N/A	59.12	74.00	14.88
		26	17	10655.79	V	X	AV	36.79	11.15	N/A	47.94	54.00	6.06
U-NII 2C	102 (5510 MHz)	SU	N/A	5458.50	H	Z	PK	48.02	4.30	N/A	52.32	74.00	21.68
		SU	N/A	5458.88	H	Z	AV	37.72	4.29	N/A	42.01	54.00	11.99
		SU	N/A	5469.57	H	Z	PK	49.08	4.25	N/A	53.33	68.20	14.87
		484	65	5459.34	H	Z	PK	48.48	4.29	N/A	52.77	74.00	21.23
		484	65	5459.62	H	Z	AV	37.54	4.29	N/A	41.83	54.00	12.17
		484	65	5468.10	H	Z	PK	50.93	4.26	N/A	55.19	68.20	13.01
		26	0	5459.02	H	Z	PK	50.64	4.29	N/A	54.93	74.00	19.07
		26	0	5459.58	H	Z	AV	40.12	4.29	N/A	44.41	54.00	9.59
		26	0	5466.50	H	Z	PK	49.90	4.26	N/A	54.16	68.20	14.04
		SU	N/A	11019.05	V	X	PK	44.52	11.38	N/A	55.90	74.00	18.10
		SU	N/A	11019.92	V	X	AV	33.14	11.38	N/A	44.52	54.00	9.48
		26	17	11056.39	V	X	PK	49.58	11.43	N/A	61.01	74.00	12.99
		26	17	11055.95	V	X	AV	37.56	11.43	N/A	48.99	54.00	5.01
	118 (5590 MHz)	SU	N/A	11178.21	V	X	PK	44.51	11.40	N/A	55.91	74.00	18.09
		SU	N/A	11179.16	V	X	AV	33.14	11.40	N/A	44.54	54.00	9.46
		26	17	11216.15	V	X	PK	49.51	11.47	N/A	60.98	74.00	13.02
		26	17	11215.95	V	X	AV	37.12	11.47	N/A	48.59	54.00	5.41
	142 (5710 MHz)	SU	N/A	11420.96	V	X	PK	43.80	11.45	N/A	55.25	74.00	18.75
		SU	N/A	11421.03	V	X	AV	32.27	11.45	N/A	43.72	54.00	10.28
		26	17	11455.26	V	X	PK	47.16	11.39	N/A	58.55	74.00	15.45
		26	17	11455.64	V	X	AV	35.40	11.39	N/A	46.79	54.00	7.21

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

    Margin = Limit – Result   /   Result = Reading + T.F+ DCF   /   T.F = AF + CL – AG

    Where, T.F = Total Factor,   AF = Antenna Factor,   CL = Cable Loss,   AG = Amplifier Gain,

       DCF = Distance Correction Factor

3. Information of Distance Factor

    For finding emissions, the test distance might be reduced from 3m to 1m.   In this case, the distance factor(-9.54dB) is applied to the result.

    - Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB

    When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

    E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : _MIMO(CDD) & 802.11ax(HE40) _Normal_

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 3	151 (5755 MHz)	SU	N/A	5714.66	H	Z	PK	53.25	3.87	N/A	57.12	68.20	11.08
		SU	N/A	5721.01	H	Z	PK	58.58	3.75	N/A	62.33	78.20	15.87
		484	65	5709.99	H	Z	PK	53.28	3.87	N/A	57.15	68.20	11.05
		484	65	5724.87	H	Z	PK	56.41	3.67	N/A	60.08	78.20	18.12
		26	0	5712.78	H	Z	PK	55.86	3.87	N/A	59.73	68.20	8.47
		26	0	5721.93	H	Z	PK	60.14	3.73	N/A	63.87	78.20	14.33
		SU	N/A	11510.72	V	X	PK	43.72	11.52	N/A	55.24	74.00	18.76
		SU	N/A	11509.61	V	X	AV	32.29	11.51	N/A	43.80	54.00	10.20
		26	17	11545.38	V	X	PK	46.95	11.70	N/A	58.65	74.00	15.35
		26	17	11546.01	V	X	AV	35.71	11.70	N/A	47.41	54.00	6.59
	159 (5795 MHz)	SU	N/A	5852.96	H	Z	PK	49.33	4.49	N/A	53.82	78.20	24.38
		SU	N/A	5864.10	H	Z	PK	49.04	4.42	N/A	53.46	68.20	14.74
		484	65	5857.12	H	Z	PK	47.78	4.51	N/A	52.29	78.20	25.91
		484	65	5865.57	H	Z	PK	48.57	4.37	N/A	52.94	68.20	15.26
		26	17	5851.00	H	Z	PK	49.15	4.48	N/A	53.63	78.20	24.57
		26	17	5872.61	H	Z	PK	50.52	4.26	N/A	54.78	68.20	13.42
		SU	N/A	11588.21	V	X	PK	44.12	11.77	N/A	55.89	74.00	18.11
		SU	N/A	11588.50	V	X	AV	32.72	11.78	N/A	44.50	54.00	9.50
		26	17	11625.05	V	X	PK	46.79	11.92	N/A	58.71	74.00	15.29
		26	17	11625.75	V	X	AV	35.58	11.93	N/A	47.51	54.00	6.49

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

   Margin = Limit – Result / Result = Reading + T.F+ DCF / T.F = AF + CL – AG

   Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
   DCF = Distance Correction Factor

3. Information of Distance Factor

   For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.
   - Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB
   When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CDD) & 802.11ax(HE80) _ Normal*

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1	42 (5210 MHz)	SU	N/A	5148.63	H	Z	PK	49.92	2.09	N/A	52.01	74.00	21.99
		SU	N/A	5149.92	H	Z	AV	38.92	2.09	N/A	41.01	54.00	12.99
		996	67	5149.82	H	Z	PK	50.12	2.09	N/A	52.21	74.00	21.79
		996	67	5147.72	H	Z	AV	38.62	2.09	N/A	40.71	54.00	13.29
		26	0	5149.22	H	Z	PK	51.98	2.09	N/A	54.07	74.00	19.93
		26	0	5149.62	H	Z	AV	39.55	2.09	N/A	41.64	54.00	12.36
		SU	N/A	10420.96	V	X	PK	44.00	11.15	N/A	55.15	68.20	13.05
		26	36	10495.20	V	X	PK	49.30	11.14	N/A	60.44	68.20	7.76
U-NII 2A	58 (5290 MHz)	SU	N/A	5351.74	H	Z	PK	50.44	4.13	N/A	54.57	74.00	19.43
		SU	N/A	5350.29	H	Z	AV	39.54	4.13	N/A	43.67	54.00	10.33
		996	67	5353.44	H	Z	PK	53.90	4.14	N/A	58.04	74.00	15.96
		996	67	5352.98	H	Z	AV	39.13	4.14	N/A	43.27	54.00	10.73
		26	36	5364.90	H	Z	PK	54.80	4.16	N/A	58.96	74.00	15.04
		26	36	5364.94	H	Z	AV	39.52	4.16	N/A	43.68	54.00	10.32
		SU	N/A	10579.92	V	X	PK	44.11	11.20	N/A	55.31	68.20	12.89
		26	0	10503.70	V	X	PK	48.58	11.14	N/A	59.72	68.20	8.48
		26	36	10655.31	V	X	PK	48.69	11.15	N/A	59.84	74.00	14.16
		26	36	10655.82	V	X	AV	36.32	11.15	N/A	47.47	54.00	6.53
U-NII 2C	106 (5530 MHz)	SU	N/A	5459.64	H	Z	PK	53.29	4.29	N/A	57.58	74.00	16.42
		SU	N/A	5459.92	H	Z	AV	41.38	4.29	N/A	45.67	54.00	8.33
		SU	N/A	5469.83	H	Z	PK	54.31	4.25	N/A	58.56	68.20	9.64
		996	67	5458.99	H	Z	PK	47.81	4.29	N/A	52.10	74.00	21.90
		996	67	5459.59	H	Z	AV	37.97	4.29	N/A	42.26	54.00	11.74
		996	67	5465.28	H	Z	PK	49.57	4.27	N/A	53.84	68.20	14.36
		26	0	5458.64	H	Z	PK	50.23	4.30	N/A	54.53	74.00	19.47
		26	0	5459.76	H	Z	AV	40.08	4.29	N/A	44.37	54.00	9.63
		26	0	5469.27	H	Z	PK	51.85	4.25	N/A	56.10	68.20	12.10
		SU	N/A	11059.25	V	X	PK	44.77	11.43	N/A	56.20	74.00	17.80
		SU	N/A	11058.21	V	X	AV	33.28	11.43	N/A	44.71	54.00	9.29
		26	36	11136.71	V	X	PK	48.71	11.32	N/A	60.03	74.00	13.97
		26	36	11135.81	V	X	AV	36.15	11.33	N/A	47.48	54.00	6.52
	122 (5610 MHz)	SU	N/A	11218.29	V	X	PK	44.12	11.47	N/A	55.59	74.00	18.41
		SU	N/A	11218.00	V	X	AV	33.30	11.47	N/A	44.77	54.00	9.23
		26	36	11296.57	V	X	PK	47.77	11.44	N/A	59.21	74.00	14.79
		26	36	11295.57	V	X	AV	35.85	11.44	N/A	47.29	54.00	6.71
	138 (5690 MHz)	SU	N/A	11379.34	V	X	PK	44.26	11.46	N/A	55.72	74.00	18.28
		SU	N/A	11379.93	V	X	AV	32.71	11.47	N/A	44.18	54.00	9.82
		26	36	11455.90	V	X	PK	49.22	11.39	N/A	60.61	74.00	13.39
		26	36	11455.92	V	X	AV	36.51	11.39	N/A	47.90	54.00	6.10
U-NII 3	155 (5775 MHz)	SU	N/A	5708.04	H	Z	PK	56.76	3.86	N/A	60.62	68.20	7.58
		SU	N/A	5718.15	H	Z	PK	57.20	3.81	N/A	61.01	78.20	17.19
		SU	N/A	5853.62	H	Z	PK	51.28	4.49	N/A	55.77	78.20	22.43
		SU	N/A	5860.82	H	Z	PK	49.79	4.51	N/A	54.30	68.20	13.90
		996	67	5711.20	H	Z	PK	54.32	3.87	N/A	58.19	68.20	10.01
		996	67	5724.58	H	Z	PK	59.01	3.68	N/A	62.69	78.20	15.51
		996	67	5851.06	H	Z	PK	52.95	4.48	N/A	57.43	78.20	20.77
		996	67	5861.81	H	Z	PK	52.54	4.48	N/A	57.02	68.20	11.18
		26	0	5712.10	H	Z	PK	55.41	3.87	N/A	59.28	68.20	8.92
		26	0	5724.64	H	Z	PK	61.21	3.68	N/A	64.89	78.20	13.31
		26	36	5854.10	H	Z	PK	53.64	4.50	N/A	58.14	78.20	20.06
		26	36	5860.27	H	Z	PK	54.32	4.52	N/A	58.84	68.20	9.36
		SU	N/A	11510.75	V	X	PK	44.78	11.52	N/A	56.30	74.00	17.70
		SU	N/A	11511.67	V	X	AV	32.49	11.52	N/A	44.01	54.00	9.99
		26	36	11625.20	V	X	PK	49.19	11.92	N/A	61.11	74.00	12.89
		26	36	11626.09	V	X	AV	36.36	11.93	N/A	48.29	54.00	5.71

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

    Margin = Limit – Result   /   Result = Reading + T.F+ DCF   /   T.F = AF + CL – AG

    Where, T.F = Total Factor,   AF = Antenna Factor,   CL = Cable Loss,   AG = Amplifier Gain,

           DCF = Distance Correction Factor

3. Information of Distance Factor

    For finding emissions, the test distance might be reduced from 3m to 1m.   In this case, the distance factor(-9.54dB) is applied to the result.

    - Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB

    When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

    E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11ax HE20*

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1	36 (5180 MHz)	SU	N/A	5149.87	H	Z	PK	50.12	2.09	N/A	52.21	74.00	21.79
		SU	N/A	5149.89	H	Z	AV	40.18	2.09	N/A	42.27	54.00	11.73
		242	61	5149.79	H	Z	PK	48.71	2.09	N/A	50.80	74.00	23.20
		242	61	5149.33	H	Z	AV	38.32	2.09	N/A	40.41	54.00	13.59
		26	0	5148.92	H	Z	PK	50.12	2.09	N/A	52.21	74.00	21.79
		26	0	5149.06	H	Z	AV	39.70	2.09	N/A	41.79	54.00	12.21
		SU	N/A	10357.43	V	X	PK	48.45	11.25	N/A	59.70	68.20	8.50
		26	8	10376.77	V	X	PK	49.22	11.19	N/A	60.41	68.20	7.79
	40 (5200 MHz)	SU	N/A	10404.96	V	X	PK	47.98	11.13	N/A	59.11	68.20	9.09
		26	8	10416.87	V	X	PK	49.16	11.15	N/A	60.31	68.20	7.90
	48 (5240 MHz)	SU	N/A	10482.76	V	X	PK	46.75	11.15	N/A	57.90	68.20	10.31
		26	8	10497.14	V	X	PK	50.07	11.14	N/A	61.21	68.20	6.99
U-NII 2A	52 (5260 MHz)	SU	N/A	10524.92	V	X	PK	46.68	11.14	N/A	57.82	68.20	10.38
		26	8	10537.17	V	X	PK	47.89	11.14	N/A	59.03	68.20	9.18
	60 (5300 MHz)	SU	N/A	10597.26	V	X	PK	46.91	11.24	N/A	58.15	68.20	10.05
		SU	N/A	10601.75	V	X	PK	46.75	11.24	N/A	57.99	74.00	16.01
		SU	N/A	10601.46	V	X	AV	35.82	11.24	N/A	47.06	54.00	6.94
		26	0	10582.83	V	X	PK	50.33	11.21	N/A	61.54	68.20	6.66
		26	8	10616.88	V	X	PK	48.67	11.21	N/A	59.88	74.00	14.12
		26	8	10616.78	V	X	AV	36.88	11.21	N/A	48.09	54.00	5.92
	64 (5320 MHz)	SU	N/A	5352.04	H	Z	PK	48.99	4.13	N/A	53.12	74.00	20.88
		SU	N/A	5350.31	H	Z	AV	38.78	4.13	N/A	42.91	54.00	11.09
		242	61	5350.08	H	Z	PK	47.27	4.13	N/A	51.40	74.00	22.60
		242	61	5350.07	H	Z	AV	37.53	4.13	N/A	41.66	54.00	12.34
		26	8	5352.25	H	Z	PK	49.36	4.13	N/A	53.49	74.00	20.51
		26	8	5350.78	H	Z	AV	38.57	4.13	N/A	42.70	54.00	11.30
		SU	N/A	10645.48	V	X	PK	45.45	11.15	N/A	56.60	74.00	17.40
		SU	N/A	10645.95	V	X	AV	34.69	11.15	N/A	45.84	54.00	8.16
		26	8	10657.18	V	X	PK	48.13	11.16	N/A	59.29	74.00	14.72
		26	8	10656.66	V	X	AV	36.18	11.16	N/A	47.34	54.00	6.66

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

Margin = Limit – Result   /   Result = Reading + T.F+ DCF   /   T.F = AF + CL – AG

Where, T.F = Total Factor,   AF = Antenna Factor,   CL = Cable Loss,   AG = Amplifier Gain,

DCF = Distance Correction Factor

3. Information of Distance Factor

For finding emissions, the test distance might be reduced from 3m to 1m.   In this case, the distance factor(-9.54dB) is applied to the result.

- Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB

When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11ax HE20*

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 2C	100 (5500 MHz)	SU	N/A	5459.08	H	Z	PK	50.01	4.29	N/A	54.30	74.00	19.70
		SU	N/A	5459.15	H	Z	AV	39.42	4.29	N/A	43.71	54.00	10.29
		SU	N/A	5469.45	H	Z	PK	49.56	4.25	N/A	53.81	68.20	14.39
		242	61	5459.65	H	Z	PK	47.44	4.29	N/A	51.73	74.00	22.27
		242	61	5459.27	H	Z	AV	37.60	4.29	N/A	41.89	54.00	12.11
		242	61	5468.70	H	Z	PK	48.70	4.26	N/A	52.96	68.20	15.24
		26	0	5459.38	H	Z	PK	48.36	4.29	N/A	52.65	74.00	21.35
		26	0	5459.59	H	Z	AV	39.08	4.29	N/A	43.37	54.00	10.63
		26	0	5462.80	H	Z	PK	50.72	4.28	N/A	55.00	68.20	13.20
		SU	N/A	11001.11	V	X	PK	47.39	11.35	N/A	58.74	74.00	15.26
		SU	N/A	11000.95	V	X	AV	36.58	11.35	N/A	47.93	54.00	6.08
		26	8	11016.92	V	X	PK	49.43	11.38	N/A	60.81	74.00	13.19
		26	8	11016.75	V	X	AV	37.15	11.38	N/A	48.53	54.00	5.47
	120 (5600 MHz)	SU	N/A	11199.66	V	X	PK	47.84	11.47	N/A	59.31	74.00	14.69
		SU	N/A	11200.90	V	X	AV	35.92	11.47	N/A	47.39	54.00	6.61
		26	8	11216.64	V	X	PK	48.83	11.47	N/A	60.30	74.00	13.70
		26	8	11216.82	V	X	AV	37.00	11.47	N/A	48.47	54.00	5.53
	144 (5720 MHz)	SU	N/A	11440.43	V	X	PK	45.52	11.40	N/A	56.92	74.00	17.08
		SU	N/A	11438.32	V	X	AV	34.99	11.41	N/A	46.40	54.00	7.60
		26	8	11457.35	V	X	PK	46.99	11.39	N/A	58.38	74.00	15.62
		26	8	11457.01	V	X	AV	35.88	11.39	N/A	47.27	54.00	6.73
U-NII 3	149 (5745 MHz)	SU	N/A	5702.05	H	Z	PK	49.85	3.86	N/A	53.71	68.20	14.49
		SU	N/A	5723.68	H	Z	PK	51.56	3.70	N/A	55.26	78.20	22.94
		242	61	5714.27	H	Z	PK	48.52	3.87	N/A	52.39	68.20	15.81
		242	61	5724.69	H	Z	PK	49.59	3.68	N/A	53.27	78.20	24.93
		26	0	5714.43	H	Z	PK	49.59	3.87	N/A	53.46	68.20	14.74
		26	0	5722.26	H	Z	PK	49.91	3.72	N/A	53.63	78.20	24.57
		SU	N/A	11489.15	V	X	PK	45.16	11.44	N/A	56.60	74.00	17.40
		SU	N/A	11487.40	V	X	AV	34.38	11.44	N/A	45.82	54.00	8.19
		26	8	11507.63	V	X	PK	48.05	11.50	N/A	59.55	74.00	14.46
		26	8	11506.68	V	X	AV	36.10	11.50	N/A	47.60	54.00	6.40
	157 (5785 MHz)	SU	N/A	11571.50	V	X	PK	45.36	11.75	N/A	57.11	74.00	16.89
		SU	N/A	11570.98	V	X	AV	34.83	11.75	N/A	46.58	54.00	7.42
		26	8	11586.84	V	X	PK	49.06	11.77	N/A	60.83	74.00	13.17
		26	8	11586.93	V	X	AV	37.15	11.77	N/A	48.92	54.00	5.08
	165 (5825 MHz)	SU	N/A	5857.03	H	Z	PK	49.28	4.51	N/A	53.79	78.20	24.41
		SU	N/A	5862.40	H	Z	PK	48.87	4.46	N/A	53.33	68.20	14.87
		242	61	5850.54	H	Z	PK	49.87	4.48	N/A	54.35	78.20	23.85
		242	61	5860.32	H	Z	PK	46.93	4.52	N/A	51.45	68.20	16.75
		26	8	5850.94	H	Z	PK	51.93	4.48	N/A	56.41	78.20	21.79
		26	8	5861.72	H	Z	PK	48.75	4.48	N/A	53.23	68.20	14.97
		SU	N/A	11649.22	V	X	PK	46.00	12.05	N/A	58.05	74.00	15.95
		SU	N/A	11650.82	V	X	AV	34.57	12.06	N/A	46.63	54.00	7.37
		26	8	11666.64	V	X	PK	47.73	12.11	N/A	59.84	74.00	14.16
		26	8	11666.57	V	X	AV	36.14	12.11	N/A	48.25	54.00	5.75

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

    Margin = Limit – Result   /   Result = Reading + T.F+ DCF   /   T.F = AF + CL – AG

    Where, T.F = Total Factor,   AF = Antenna Factor,   CL = Cable Loss,   AG = Amplifier Gain,

         DCF = Distance Correction Factor

3. Information of Distance Factor

    For finding emissions, the test distance might be reduced from 3m to 1m.   In this case, the distance factor(-9.54dB) is applied to the result.

    - Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB

     When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

    E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11ax(HE40)*

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1	38 (5190 MHz)	SU	N/A	5149.44	H	Z	PK	49.15	2.09	N/A	51.24	74.00	22.76
		SU	N/A	5149.75	H	Z	AV	39.12	2.09	N/A	41.21	54.00	12.79
		484	65	5148.73	H	Z	PK	52.96	2.09	N/A	55.05	74.00	18.95
		484	65	5148.77	H	Z	AV	38.71	2.09	N/A	40.80	54.00	13.20
		26	0	5149.69	H	Z	PK	52.81	2.09	N/A	54.90	74.00	19.10
		26	0	5149.78	H	Z	AV	39.49	2.09	N/A	41.58	54.00	12.42
		SU	N/A	10378.60	V	X	PK	43.40	11.19	N/A	54.59	68.20	13.61
		26	17	10416.03	V	X	PK	49.21	11.14	N/A	60.35	68.20	7.85
	46 (5230 MHz)	SU	N/A	10461.77	V	X	PK	43.19	11.17	N/A	54.36	68.20	13.84
		26	17	10496.01	V	X	PK	50.04	11.14	N/A	61.18	68.20	7.02
U-NII 2A	54 (5270 MHz)	SU	N/A	10540.41	V	X	PK	42.72	11.14	N/A	53.86	68.20	14.34
		26	17	10575.79	V	X	PK	49.05	11.19	N/A	60.24	68.20	7.96
	62 (5310 MHz)	SU	N/A	5350.15	H	Z	PK	48.50	4.13	N/A	52.63	74.00	21.37
		SU	N/A	5350.50	H	Z	AV	38.06	4.13	N/A	42.19	54.00	11.81
		484	65	5351.29	H	Z	PK	49.98	4.13	N/A	54.11	74.00	19.89
		484	65	5350.42	H	Z	AV	38.15	4.13	N/A	42.28	54.00	11.72
		26	17	5351.30	H	Z	PK	50.80	4.13	N/A	54.93	74.00	19.07
		26	17	5350.41	H	Z	AV	39.03	4.13	N/A	43.16	54.00	10.84
		SU	N/A	10619.20	V	X	PK	43.50	11.20	N/A	54.70	74.00	19.30
		SU	N/A	10618.04	V	X	AV	31.50	11.21	N/A	42.71	54.00	11.29
		26	0	10583.78	V	X	PK	48.81	11.21	N/A	60.02	68.20	8.18
		26	17	10655.99	V	X	PK	49.15	11.16	N/A	60.31	74.00	13.69
		26	17	10656.04	V	X	AV	36.01	11.16	N/A	47.17	54.00	6.83
U-NII 2C	102 (5510 MHz)	SU	N/A	5459.90	H	Z	PK	47.53	4.29	N/A	51.82	74.00	22.18
		SU	N/A	5459.90	H	Z	AV	38.22	4.29	N/A	42.51	54.00	11.49
		SU	N/A	5463.06	H	Z	PK	50.04	4.28	N/A	54.32	68.20	13.88
		484	65	5459.54	H	Z	PK	47.39	4.29	N/A	51.68	74.00	22.32
		484	65	5459.40	H	Z	AV	37.68	4.29	N/A	41.97	54.00	12.03
		484	65	5469.92	H	Z	PK	47.59	4.25	N/A	51.84	68.20	16.36
		26	0	5459.19	H	Z	PK	49.35	4.29	N/A	53.64	74.00	20.36
		26	0	5459.94	H	Z	AV	39.10	4.29	N/A	43.39	54.00	10.61
		26	0	5468.61	H	Z	PK	49.54	4.26	N/A	53.80	68.20	14.40
		SU	N/A	11018.29	V	X	PK	43.61	11.38	N/A	54.99	74.00	19.01
		SU	N/A	11018.22	V	X	AV	32.66	11.38	N/A	44.04	54.00	9.96
		26	17	11055.59	V	X	PK	50.01	11.43	N/A	61.44	74.00	12.56
		26	17	11055.85	V	X	AV	37.12	11.43	N/A	48.55	54.00	5.45
	118 (5590 MHz)	SU	N/A	11179.26	V	X	PK	43.33	11.40	N/A	54.73	74.00	19.27
		SU	N/A	11179.94	V	X	AV	32.63	11.40	N/A	44.03	54.00	9.97
		26	17	11215.52	V	X	PK	49.54	11.47	N/A	61.01	74.00	12.99
		26	17	11216.00	V	X	AV	36.70	11.47	N/A	48.17	54.00	5.83
	142 (5710 MHz)	SU	N/A	11417.96	V	X	PK	43.39	11.46	N/A	54.85	74.00	19.15
		SU	N/A	11418.69	V	X	AV	32.38	11.45	N/A	43.83	54.00	10.17
		26	17	11455.72	V	X	PK	47.94	11.39	N/A	59.33	74.00	14.67
		26	17	11456.10	V	X	AV	35.81	11.39	N/A	47.20	54.00	6.80

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

   Margin = Limit – Result   /   Result = Reading + T.F+ DCF   /   T.F = AF + CL – AG

   Where, T.F = Total Factor,   AF = Antenna Factor,   CL = Cable Loss,   AG = Amplifier Gain,

   DCF = Distance Correction Factor

3. Information of Distance Factor

   For finding emissions, the test distance might be reduced from 3m to 1m.   In this case, the distance factor(-9.54dB) is applied to the result.

   - Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB

   When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : _MIMO(SDM) & 802.11ax(HE40)_

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 3	151 (5755 MHz)	SU	N/A	5714.71	H	Z	PK	52.65	3.87	N/A	56.52	68.20	11.68
		SU	N/A	5723.53	H	Z	PK	58.45	3.70	N/A	62.15	78.20	16.05
		484	65	5709.72	H	Z	PK	50.20	3.86	N/A	54.06	68.20	14.14
		484	65	5723.50	H	Z	PK	51.98	3.70	N/A	55.68	78.20	22.52
		26	0	5713.74	H	Z	PK	50.15	3.87	N/A	54.02	68.20	14.18
		26	0	5724.59	H	Z	PK	54.24	3.68	N/A	57.92	78.20	20.28
		SU	N/A	11509.48	V	X	PK	43.81	11.51	N/A	55.32	74.00	18.68
		SU	N/A	11508.85	V	X	AV	32.23	11.51	N/A	43.74	54.00	10.26
		26	17	11546.03	V	X	PK	48.99	11.70	N/A	60.69	74.00	13.31
		26	17	11546.08	V	X	AV	35.66	11.70	N/A	47.36	54.00	6.64
	159 (5795 MHz)	SU	N/A	5851.08	H	Z	PK	49.30	4.48	N/A	53.78	78.20	24.42
		SU	N/A	5870.38	H	Z	PK	49.41	4.25	N/A	53.66	68.20	14.54
		484	65	5850.90	H	Z	PK	48.67	4.48	N/A	53.15	78.20	25.05
		484	65	5873.66	H	Z	PK	48.84	4.27	N/A	53.11	68.20	15.09
		26	17	5855.22	H	Z	PK	49.03	4.50	N/A	53.53	78.20	24.67
		26	17	5881.24	H	Z	PK	49.93	4.31	N/A	54.24	68.20	13.96
		SU	N/A	11588.59	V	X	PK	44.59	11.78	N/A	56.37	74.00	17.63
		SU	N/A	11588.88	V	X	AV	32.70	11.78	N/A	44.48	54.00	9.52
		26	17	11626.07	V	X	PK	48.55	11.93	N/A	60.48	74.00	13.52
		26	17	11625.94	V	X	AV	35.85	11.93	N/A	47.78	54.00	6.22

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

　　Margin = Limit – Result　/　Result = Reading + T.F+ DCF　/　T.F = AF + CL – AG

　　Where, T.F = Total Factor,　AF = Antenna Factor,　CL = Cable Loss,　AG = Amplifier Gain,

　　　　　DCF = Distance Correction Factor

3. Information of Distance Factor

　　For finding emissions, the test distance might be reduced from 3m to 1m.　In this case, the distance factor(-9.54dB) is applied to the result.

　　- Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB

　　When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

　　E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11ax(HE80)*

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1	42 (5210 MHz)	SU	N/A	5149.66	H	Z	PK	49.95	2.09	N/A	52.04	74.00	21.96
		SU	N/A	5149.09	H	Z	AV	39.02	2.09	N/A	41.11	54.00	12.89
		996	67	5148.53	H	Z	PK	55.83	2.09	N/A	57.92	74.00	16.08
		996	67	5149.41	H	Z	AV	39.03	2.09	N/A	41.12	54.00	12.88
		26	0	5148.17	H	Z	PK	55.15	2.09	N/A	57.24	74.00	16.76
		26	0	5149.85	H	Z	AV	40.03	2.09	N/A	42.12	54.00	11.88
		SU	N/A	10418.13	V	X	PK	42.80	11.15	N/A	53.95	68.20	14.25
		26	36	10495.73	V	X	PK	49.76	11.14	N/A	60.90	68.20	7.30
U-NII 2A	58 (5290 MHz)	SU	N/A	5350.29	H	Z	PK	48.61	4.13	N/A	52.74	74.00	21.26
		SU	N/A	5350.24	H	Z	AV	38.60	4.13	N/A	42.73	54.00	11.27
		996	67	5371.60	H	Z	PK	55.24	4.17	N/A	59.41	74.00	14.59
		996	67	5350.20	H	Z	AV	38.22	4.13	N/A	42.35	54.00	11.65
		26	36	5374.89	H	Z	PK	55.37	4.18	N/A	59.55	74.00	14.45
		26	36	5350.39	H	Z	AV	39.02	4.13	N/A	43.15	54.00	10.85
		SU	N/A	10580.61	V	X	PK	43.47	11.20	N/A	54.67	68.20	13.53
		26	0	10503.85	V	X	PK	48.08	11.14	N/A	59.22	68.20	8.98
		26	36	10655.78	V	X	PK	48.33	11.15	N/A	59.48	74.00	14.52
		26	36	10656.07	V	X	AV	36.64	11.16	N/A	47.80	54.00	6.20
U-NII 2C	106 (5530 MHz)	SU	N/A	5458.79	H	Z	PK	52.26	4.29	N/A	56.55	74.00	17.45
		SU	N/A	5459.09	H	Z	AV	41.04	4.29	N/A	45.33	54.00	8.67
		SU	N/A	5466.33	H	Z	PK	52.55	4.26	N/A	56.81	68.20	11.39
		996	67	5459.41	H	Z	PK	48.20	4.29	N/A	52.49	74.00	21.51
		996	67	5459.72	H	Z	AV	37.83	4.29	N/A	42.12	54.00	11.88
		996	67	5468.45	H	Z	PK	49.07	4.26	N/A	53.33	68.20	14.87
		26	0	5459.47	H	Z	PK	49.08	4.29	N/A	53.37	74.00	20.63
		26	0	5459.24	H	Z	AV	39.21	4.29	N/A	43.50	54.00	10.50
		26	0	5469.06	H	Z	PK	51.81	4.25	N/A	56.06	68.20	12.14
		SU	N/A	11059.99	V	X	PK	43.61	11.43	N/A	55.04	74.00	18.96
		SU	N/A	11059.71	V	X	AV	32.78	11.43	N/A	44.21	54.00	9.79
		26	36	11135.62	V	X	PK	48.27	11.33	N/A	59.60	74.00	14.40
		26	36	11135.64	V	X	AV	36.58	11.33	N/A	47.91	54.00	6.09
	122 (5610 MHz)	SU	N/A	11218.60	V	X	PK	43.68	11.47	N/A	55.15	74.00	18.85
		SU	N/A	11218.58	V	X	AV	32.51	11.47	N/A	43.98	54.00	10.02
		26	36	11295.89	V	X	PK	48.00	11.44	N/A	59.44	74.00	14.56
		26	36	11296.28	V	X	AV	36.11	11.44	N/A	47.55	54.00	6.45
	138 (5690 MHz)	SU	N/A	11378.81	V	X	PK	43.91	11.46	N/A	55.37	74.00	18.63
		SU	N/A	11378.53	V	X	AV	32.18	11.46	N/A	43.64	54.00	10.36
		26	36	11456.30	V	X	PK	47.58	11.39	N/A	58.97	74.00	15.03
		26	36	11456.28	V	X	AV	35.26	11.39	N/A	46.65	54.00	7.35
U-NII 3	155 (5775 MHz)	SU	N/A	5713.40	H	Z	PK	53.30	3.87	N/A	57.17	68.20	11.03
		SU	N/A	5719.81	H	Z	PK	54.30	3.77	N/A	58.07	78.20	20.13
		SU	N/A	5851.20	H	Z	PK	49.87	4.48	N/A	54.35	78.20	23.85
		SU	N/A	5882.48	H	Z	PK	49.59	4.32	N/A	53.91	68.20	14.29
		996	67	5714.48	H	Z	PK	54.01	3.87	N/A	57.88	68.20	10.32
		996	67	5723.08	H	Z	PK	59.09	3.71	N/A	62.80	78.20	15.40
		996	67	5854.42	H	Z	PK	51.08	4.50	N/A	55.58	78.20	22.62
		996	67	5860.18	H	Z	PK	53.13	4.52	N/A	57.65	68.20	10.55
		26	0	5714.40	H	Z	PK	53.88	3.87	N/A	57.75	68.20	10.45
		26	0	5724.10	H	Z	PK	60.87	3.69	N/A	64.56	78.20	13.64
		26	36	5858.38	H	Z	PK	51.88	4.52	N/A	56.40	78.20	21.80
		26	36	5863.30	H	Z	PK	49.48	4.44	N/A	53.92	68.20	14.28
		SU	N/A	11510.39	V	X	PK	43.54	11.52	N/A	55.06	74.00	18.94
		SU	N/A	11509.75	V	X	AV	32.29	11.51	N/A	43.80	54.00	10.20
		26	36	11625.65	V	X	PK	48.17	11.93	N/A	60.10	74.00	13.90
		26	36	11625.97	V	X	AV	35.59	11.93	N/A	47.52	54.00	6.48

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

   Margin = Limit – Result   /   Result = Reading + T.F+ DCF   /   T.F = AF + CL – AG

   Where, T.F = Total Factor,   AF = Antenna Factor,   CL = Cable Loss,   AG = Amplifier Gain,

   DCF = Distance Correction Factor

3. Information of Distance Factor

   For finding emissions, the test distance might be reduced from 3m to 1m.   In this case, the distance factor(-9.54dB) is applied to the result.

   - Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB

   When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

Dt&C

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11ax(HE20) & With Wireless charging pad*

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1	36 (5180 MHz)	SU	N/A	5149.47	V	X	PK	48.14	2.09	N/A	50.23	74.00	23.77
		SU	N/A	5149.59	V	X	AV	38.82	2.09	N/A	40.91	54.00	13.09
		242	N/A	5149.20	V	X	PK	47.68	2.09	N/A	49.77	74.00	24.23
		242	N/A	5149.24	V	X	AV	37.85	2.09	N/A	39.94	54.00	14.06
		26	0	5149.51	V	X	PK	48.87	2.09	N/A	50.96	74.00	23.04
		26	0	5149.82	V	X	AV	38.00	2.09	N/A	40.09	54.00	13.91
		SU	N/A	10358.28	V	X	PK	46.86	11.25	N/A	58.11	68.20	10.09
		26	8	10376.96	V	X	PK	48.76	11.19	N/A	59.95	68.20	8.25
	48 (5240 MHz)	SU	N/A	10481.85	V	X	PK	46.30	11.16	N/A	57.46	68.20	10.74
		26	8	10497.19	V	X	PK	48.72	11.14	N/A	59.86	68.20	8.34
U-NII 2A	60 (5300 MHz)	SU	N/A	10595.47	V	X	PK	46.23	11.23	N/A	57.46	68.20	10.74
		SU	N/A	10600.11	V	X	PK	46.57	11.24	N/A	57.81	74.00	16.19
		SU	N/A	10601.15	V	X	AV	35.29	11.24	N/A	46.53	54.00	7.47
		26	0	10583.41	V	X	PK	48.27	11.21	N/A	59.48	68.20	8.72
		26	8	10616.63	V	X	PK	47.60	11.21	N/A	58.81	74.00	15.19
		26	8	10616.95	V	X	AV	35.54	11.21	N/A	46.75	54.00	7.25
	64 (5320 MHz)	SU	N/A	5352.38	V	X	PK	47.87	4.13	N/A	52.00	74.00	22.00
		SU	N/A	5350.67	V	X	AV	37.62	4.13	N/A	41.75	54.00	12.25
		242	61	5353.36	V	X	PK	48.66	4.14	N/A	52.80	74.00	21.20
		242	61	5350.70	V	X	AV	36.93	4.13	N/A	41.06	54.00	12.94
		26	8	5358.69	V	X	PK	49.66	4.15	N/A	53.81	74.00	20.19
		26	8	5350.50	V	X	AV	37.79	4.13	N/A	41.92	54.00	12.08
		SU	N/A	10649.77	V	X	PK	43.45	11.14	N/A	54.59	74.00	19.41
		SU	N/A	10648.98	V	X	AV	33.54	11.15	N/A	44.69	54.00	9.31
		26	8	10657.19	V	X	PK	47.25	11.16	N/A	58.41	74.00	15.59
		26	8	10656.69	V	X	AV	35.33	11.16	N/A	46.49	54.00	7.51

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

   Margin = Limit – Result   /   Result = Reading + T.F+ DCF   /   T.F = AF + CL – AG

   Where, T.F = Total Factor,   AF = Antenna Factor,   CL = Cable Loss,   AG = Amplifier Gain,

   DCF = Distance Correction Factor

3. Information of Distance Factor

   For finding emissions, the test distance might be reduced from 3m to 1m.   In this case, the distance factor(-9.54dB) is applied to the result.

   - Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB

   When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(CDD) & 802.11ax(HE40) & With Wireless charging pad*

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 2C	102 (5510 MHz)	SU	N/A	5459.34	V	X	PK	47.33	4.29	N/A	51.62	74.00	22.38
		SU	N/A	5459.20	V	X	AV	37.12	4.29	N/A	41.41	54.00	12.59
		SU	N/A	5464.50	V	X	PK	49.11	4.27	N/A	53.38	68.20	14.82
		484	65	5459.78	V	X	PK	46.91	4.29	N/A	51.20	74.00	22.80
		484	65	5458.77	V	X	AV	36.96	4.29	N/A	41.25	54.00	12.75
		484	65	5466.00	V	X	PK	48.68	4.27	N/A	52.95	68.20	15.25
		26	0	5458.59	V	X	PK	48.37	4.30	N/A	52.67	74.00	21.33
		26	0	5459.66	V	X	AV	37.63	4.29	N/A	41.92	54.00	12.08
		26	0	5468.89	V	X	PK	48.38	4.25	N/A	52.63	68.20	15.57
		SU	N/A	11019.90	V	X	PK	43.62	11.38	N/A	55.00	74.00	19.00
		SU	N/A	11019.27	V	X	AV	32.99	11.38	N/A	44.37	54.00	9.63
		26	17	11055.96	V	X	PK	47.70	11.43	N/A	59.13	74.00	14.87
		26	17	11055.91	V	X	AV	36.04	11.43	N/A	47.47	54.00	6.53

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

　　Margin = Limit – Result　/　Result = Reading + T.F+ DCF　/　T.F = AF + CL – AG

　　Where, T.F = Total Factor,　AF = Antenna Factor,　CL = Cable Loss,　AG = Amplifier Gain,

　　　　DCF = Distance Correction Factor

3. Information of Distance Factor

　　For finding emissions, the test distance might be reduced from 3m to 1m.　In this case, the distance factor(-9.54dB) is applied to the result.

　　- Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB

　　When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

　　E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

Dt&C

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11ax(HE20) & With Wireless charging pad*

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 3	157 (5785 MHz)	SU	N/A	11570.47	V	X	PK	43.98	11.75	N/A	55.73	74.00	18.27
		SU	N/A	11570.65	V	X	AV	33.65	11.75	N/A	45.40	54.00	8.60
		26	8	11586.29	V	X	PK	46.56	11.77	N/A	58.33	74.00	15.67
		26	8	11586.82	V	X	AV	35.03	11.77	N/A	46.80	54.00	7.20
	165 (5825 MHz)	SU	N/A	5856.45	V	X	PK	48.30	4.51	N/A	52.81	78.20	25.39
		SU	N/A	5860.50	V	X	PK	48.05	4.52	N/A	52.57	68.20	15.63
		242	61	5850.42	V	X	PK	48.77	4.48	N/A	53.25	78.20	24.95
		242	61	5873.58	V	X	PK	48.27	4.27	N/A	52.54	68.20	15.66
		26	8	5853.19	V	X	PK	48.66	4.49	N/A	53.15	78.20	25.05
		26	8	5867.18	V	X	PK	48.61	4.33	N/A	52.94	68.20	15.26
		SU	N/A	11650.19	V	X	PK	43.82	12.06	N/A	55.88	74.00	18.12
		SU	N/A	11649.59	V	X	AV	33.80	12.05	N/A	45.85	54.00	8.15
		26	8	11667.50	V	X	PK	46.44	12.11	N/A	58.55	74.00	15.45
		26	8	11666.96	V	X	AV	34.23	12.11	N/A	46.34	54.00	7.66

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

   Margin = Limit – Result   /   Result = Reading + T.F+ DCF   /   T.F = AF + CL – AG

   Where, T.F = Total Factor,   AF = Antenna Factor,   CL = Cable Loss,   AG = Amplifier Gain,

   DCF = Distance Correction Factor

3. Information of Distance Factor

   For finding emissions, the test distance might be reduced from 3m to 1m.   In this case, the distance factor(-9.54dB) is applied to the result.

   - Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB

   When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11ax(HE20)_With Dual Display*

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1	36 (5180 MHz)	SU	N/A	5149.45	H	Z	PK	50.27	2.09	N/A	52.36	74.00	21.64
		SU	N/A	5149.61	H	Z	AV	39.83	2.09	N/A	41.92	54.00	12.08
		242	61	5148.35	H	Z	PK	49.41	2.09	N/A	51.50	74.00	22.50
		242	61	5149.52	H	Z	AV	38.71	2.09	N/A	40.80	54.00	13.20
		26	0	5149.47	H	Z	PK	49.88	2.09	N/A	51.97	74.00	22.03
		26	0	5148.91	H	Z	AV	39.02	2.09	N/A	41.11	54.00	12.89
		SU	N/A	10358.51	V	X	PK	47.36	11.24	N/A	58.60	68.20	9.60
		26	8	10377.02	V	X	PK	49.31	11.19	N/A	60.50	68.20	7.70
	48 (5240 MHz)	SU	N/A	10481.86	V	X	PK	46.02	11.16	N/A	57.18	68.20	11.02
		26	8	10497.01	V	X	PK	48.98	11.14	N/A	60.12	68.20	8.08

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

    Margin = Limit – Result / Result = Reading + T.F+ DCF / T.F = AF + CL – AG

    Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,

        DCF = Distance Correction Factor

3. Information of Distance Factor

    For finding emissions, the test distance might be reduced from 3m to 1m.   In this case, the distance factor(-9.54dB) is applied to the result.

    - Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB

     When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

    E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : _MIMO(SDM) & 802.11ax(HE20) With Dual Display_

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 2A	60 (5300 MHz)	SU	N/A	10599.85	V	X	PK	46.10	11.24	N/A	57.34	68.20	10.86
		SU	N/A	10601.74	V	X	PK	46.16	11.24	N/A	57.40	74.00	16.60
		SU	N/A	10601.04	V	X	AV	35.77	11.24	N/A	47.01	54.00	6.99
		26	0	10582.82	V	X	PK	48.24	11.21	N/A	59.45	68.20	8.75
		26	8	10616.95	V	X	PK	48.77	11.21	N/A	59.98	74.00	14.02
		26	8	10616.77	V	X	AV	36.08	11.21	N/A	47.29	54.00	6.71
	64 (5320 MHz)	SU	N/A	5352.74	H	Z	PK	50.04	4.14	N/A	54.18	74.00	19.82
		SU	N/A	5350.34	H	Z	AV	38.43	4.13	N/A	42.56	54.00	11.44
		242	61	5355.05	H	Z	PK	48.45	4.14	N/A	52.59	74.00	21.41
		242	61	5350.70	H	Z	AV	37.59	4.13	N/A	41.72	54.00	12.28
		26	8	5378.74	H	Z	PK	50.53	4.19	N/A	54.72	74.00	19.28
		26	8	5350.99	H	Z	AV	38.35	4.13	N/A	42.48	54.00	11.52
		SU	N/A	10645.66	V	X	PK	45.15	11.15	N/A	56.30	74.00	17.70
		SU	N/A	10646.11	V	X	AV	34.07	11.15	N/A	45.22	54.00	8.78
		26	8	10656.66	V	X	PK	48.79	11.16	N/A	59.95	74.00	14.05
		26	8	10657.25	V	X	AV	36.46	11.16	N/A	47.62	54.00	6.38

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

    Margin = Limit – Result   /   Result = Reading + T.F+ DCF   /   T.F = AF + CL – AG

    Where, T.F = Total Factor,   AF = Antenna Factor,   CL = Cable Loss,   AG = Amplifier Gain,

        DCF = Distance Correction Factor

3. Information of Distance Factor

    For finding emissions, the test distance might be reduced from 3m to 1m.   In this case, the distance factor(-9.54dB) is applied to the result.

    - Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB

    When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

    E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : _MIMO(CDD) & 802.11ax(HE40)_With Dual Display_

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 2C	102 (5510 MHz)	SU	N/A	5458.81	H	Z	PK	48.43	4.29	N/A	52.72	74.00	21.28
		SU	N/A	5459.17	H	Z	AV	37.36	4.29	N/A	41.65	54.00	12.35
		SU	N/A	5469.93	H	Z	PK	47.85	4.25	N/A	52.10	68.20	16.10
		484	65	5459.29	H	Z	PK	51.01	4.29	N/A	55.30	74.00	18.70
		484	65	5459.27	H	Z	AV	37.49	4.29	N/A	41.78	54.00	12.22
		484	65	5469.78	H	Z	PK	52.16	4.25	N/A	56.41	68.20	11.79
		26	0	5459.31	H	Z	PK	49.86	4.29	N/A	54.15	74.00	19.85
		26	0	5458.92	H	Z	AV	40.01	4.29	N/A	44.30	54.00	9.70
		26	0	5464.89	H	Z	PK	52.05	4.27	N/A	56.32	68.20	11.88
		SU	N/A	11021.42	V	X	PK	44.43	11.38	N/A	55.81	74.00	18.19
		SU	N/A	11020.94	V	X	AV	32.85	11.38	N/A	44.23	54.00	9.77
		26	17	11055.70	V	X	PK	49.40	11.43	N/A	60.83	74.00	13.17
		26	17	11055.88	V	X	AV	36.75	11.43	N/A	48.18	54.00	5.82

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

   Margin = Limit – Result   /   Result = Reading + T.F+ DCF   /   T.F = AF + CL – AG

   Where, T.F = Total Factor,   AF = Antenna Factor,   CL = Cable Loss,   AG = Amplifier Gain,
         DCF = Distance Correction Factor

3. Information of Distance Factor

   For finding emissions, the test distance might be reduced from 3m to 1m.   In this case, the distance factor(-9.54dB) is applied to the result.
   - Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB
    When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11ax(HE20) With Dual Display*

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 3	157 (5785 MHz)	SU	N/A	11569.02	V	X	PK	44.67	11.75	N/A	56.42	74.00	17.58
		SU	N/A	11566.50	V	X	AV	34.36	11.75	N/A	46.11	54.00	7.89
		26	8	11586.86	V	X	PK	48.51	11.77	N/A	60.28	74.00	13.72
		26	8	11587.03	V	X	AV	36.42	11.77	N/A	48.19	54.00	5.81
	165 (5825 MHz)	SU	N/A	5852.58	H	Z	PK	49.61	4.49	N/A	54.10	78.20	24.10
		SU	N/A	5865.92	H	Z	PK	48.98	4.36	N/A	53.34	68.20	14.86
		242	61	5851.22	H	Z	PK	48.39	4.48	N/A	52.87	78.20	25.33
		242	61	5875.56	H	Z	PK	48.05	4.28	N/A	52.33	68.20	15.87
		26	8	5851.08	H	Z	PK	51.63	4.48	N/A	56.11	78.20	22.09
		26	8	5878.38	H	Z	PK	49.03	4.30	N/A	53.33	68.20	14.87
		SU	N/A	11648.22	V	X	PK	44.80	12.05	N/A	56.85	74.00	17.15
		SU	N/A	11647.37	V	X	AV	34.41	12.04	N/A	46.45	54.00	7.55
		26	8	11666.53	V	X	PK	47.18	12.11	N/A	59.29	74.00	14.71
		26	8	11667.14	V	X	AV	35.54	12.11	N/A	47.65	54.00	6.35

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

Margin = Limit – Result   /   Result = Reading + T.F+ DCF   /   T.F = AF + CL – AG

Where, T.F = Total Factor,   AF = Antenna Factor,   CL = Cable Loss,   AG = Amplifier Gain,

DCF = Distance Correction Factor

3. Information of Distance Factor

For finding emissions, the test distance might be reduced from 3m to 1m.   In this case, the distance factor(-9.54dB) is applied to the result.

- Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB

When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : *MIMO(SDM) & 802.11ax(HE20)_With Dual Display+ WPC*

Band	Tested Channel	Tone	RU	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 3	157 (5785 MHz)	SU	N/A	11571.14	V	X	PK	44.13	11.75	N/A	55.88	74.00	18.12
		SU	N/A	11570.87	V	X	AV	33.67	11.75	N/A	45.42	54.00	8.58
		26	8	11587.50	V	X	PK	46.61	11.77	N/A	58.38	74.00	15.62
		26	8	11586.93	V	X	AV	35.27	11.77	N/A	47.04	54.00	6.96
	165 (5825 MHz	SU	N/A	5850.33	V	X	PK	48.49	4.48	N/A	52.97	78.20	25.23
		SU	N/A	5869.20	V	X	PK	48.90	4.27	N/A	53.17	68.20	15.03
		242	61	5851.99	V	X	PK	48.31	4.48	N/A	52.79	78.20	25.41
		242	61	5864.94	V	X	PK	47.50	4.39	N/A	51.89	68.20	16.31
		26	8	5851.37	V	X	PK	51.31	4.48	N/A	55.79	78.20	22.41
		26	8	5863.39	V	X	PK	48.73	4.44	N/A	53.17	68.20	15.03
		SU	N/A	11649.24	V	X	PK	44.17	12.05	N/A	56.22	74.00	17.78
		SU	N/A	11648.06	V	X	AV	33.96	12.04	N/A	46.00	54.00	8.00
		26	8	11666.94	V	X	PK	46.02	12.11	N/A	58.13	74.00	15.87
		26	8	11666.71	V	X	AV	34.62	12.11	N/A	46.73	54.00	7.27

Note.

1. The radiated emissions were investigated up to the 10th harmonic of the fundamental frequency. And no other spurious and harmonic emissions were found greater than listed emissions on above table.

2. Sample Calculation.

   Margin = Limit – Result   /   Result = Reading + T.F+ DCF   /   T.F = AF + CL – AG

   Where, T.F = Total Factor,   AF = Antenna Factor,   CL = Cable Loss,   AG = Amplifier Gain,

   DCF = Distance Correction Factor

3. Information of Distance Factor

   For finding emissions, the test distance might be reduced from 3m to 1m.   In this case, the distance factor(-9.54dB) is applied to the result.

   - Calculation of distance factor = 20 log(applied distance / required distance) = 20 log(1 m / 3 m) = -9.54 dB

   When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

4. The limit is converted to field strength.

   E[dBuV/m] = EIRP[dBm] + 95.2 dB = -27 dBm + 95.2 = 68.2 dBuV/m

8.7 AC Conducted Emissions

▣ **Test Requirements and limit, §15.207**

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	**Average**
0.15 ~ 0.5	66 to 56 *	56 to 46 *
0.5 ~ 5	56	46
5 ~ 30	60	50

* Decreases with the logarithm of the frequency

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

▣ **Test Configuration**
See test photographs for the actual connections between EUT and support equipment.

▣ **Test Procedure**

Conducted emissions from the EUT were measured according to the ANSI C63.10-2013.
1. The test procedure is performed in a 6.5 m × 3.5 m × 3.5 m (L × W × H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) × 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

▣ **Test Results: Comply**
Note 1: See next pages for actual measured spectrum plots and data for worst case result.

AC Line Conducted Emissions (Graph)

Test Mode: U-NII 1 & 802.11ax HE20 & MIMO(CDD) & 5240 MHz
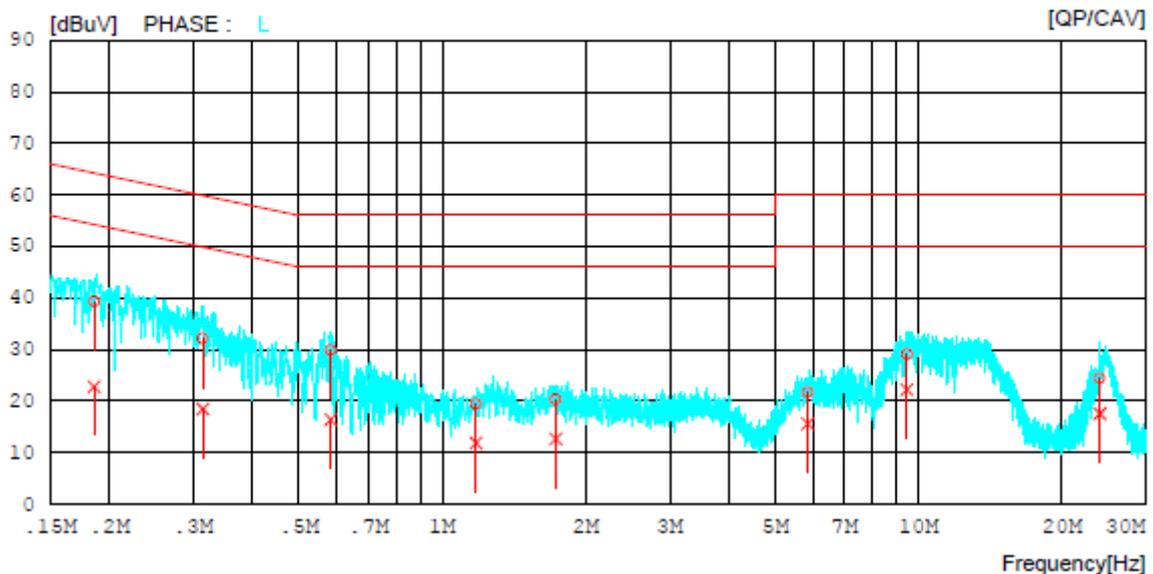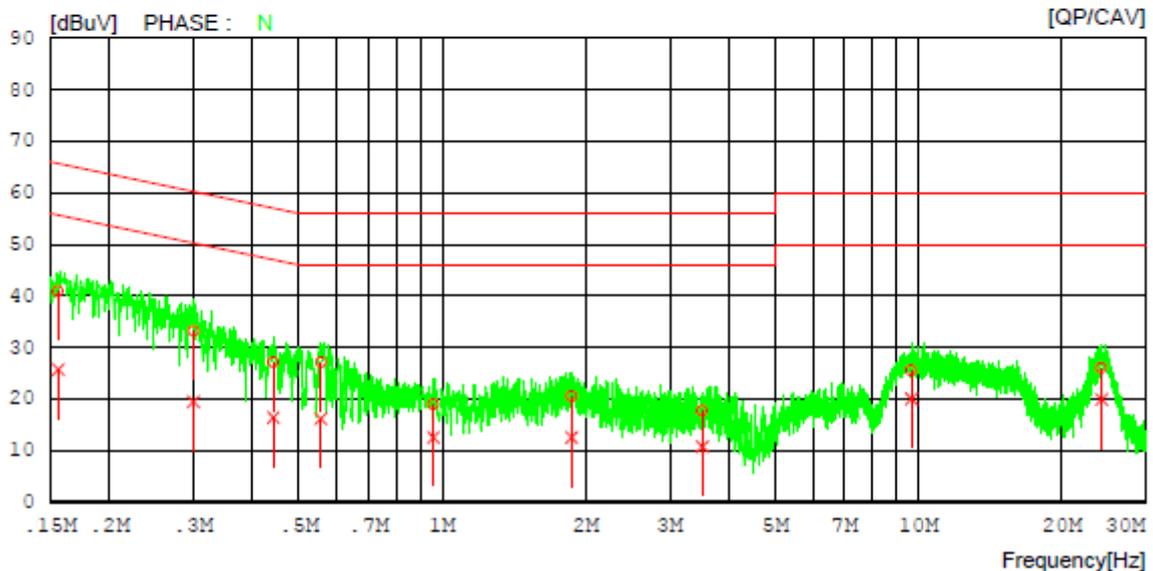
Results of Conducted Emission

DTNC   Date 2020-01-24

Order No.   Refference No.
Model No.   LM-V600EA   Power Supply   120 V, 60 Hz
Serial No.   Temp/Humi.   23 'C / 35 %
Test Condition   ax_5.1G   Operator   Kim Jung woo

Memo

LIMIT : FCC P15.207 QP
        FCC P15.207 AV

AC Line Conducted Emissions (Data List)

Test Mode: U-NII 1　&　802.11ax HE20　&　MIMO(CDD)　&　5240 MHz

Results of Conducted Emission

DTNC　　　　　　　　　　　　　　　　　　　　　　　　　　Date　2020-01-24

Order No.　　　　　　　　　　　　　　　　Referrence No.
Model No.　　　　LM-V600EA　　　　　　Power Supply　　　120 V, 60 Hz
Serial No.　　　　　　　　　　　　　　　　Temp/Humi.　　　　23 'C / 35 %
Test Condition　　ax_5.1G　　　　　　　Operator　　　　　　Kim Jung woo

Memo

LIMIT : FCC P15.207 QP
　　　　 FCC P15.207 AV

NO	FREQ	READING QP	CAV	C.FACTOR	RESULT QP	CAV	LIMIT QP	CAV	MARGIN QP	CAV	PHASE
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.15580	31.01	15.79	9.94	40.95	25.73	65.68	55.68	24.73	29.95	N
2	0.30003	23.28	9.56	9.94	33.22	19.50	60.24	50.24	27.02	30.74	N
3	0.44134	17.24	6.44	9.95	27.19	16.39	57.04	47.04	29.85	30.65	N
4	0.55581	17.22	6.25	9.95	27.17	16.20	56.00	46.00	28.83	29.80	N
5	0.95730	8.99	2.64	9.97	18.96	12.61	56.00	46.00	37.04	33.39	N
6	1.86750	10.59	2.52	10.03	20.62	12.55	56.00	46.00	35.38	33.45	N
7	3.51521	7.63	0.71	10.10	17.73	10.81	56.00	46.00	38.27	35.19	N
8	9.66401	15.31	9.73	10.32	25.63	20.05	60.00	50.00	34.37	29.95	N
9	24.24185	15.44	9.32	10.64	26.08	19.96	60.00	50.00	33.92	30.04	N
10	0.18572	29.38	12.83	9.94	39.32	22.77	64.23	54.23	24.91	31.46	L
11	0.31376	22.12	8.50	9.94	32.06	18.44	59.87	49.87	27.81	31.43	L
12	0.58267	19.92	6.43	9.95	29.87	16.38	56.00	46.00	26.13	29.62	L
13	1.17660	9.44	1.81	9.98	19.42	11.79	56.00	46.00	36.58	34.21	L
14	1.73100	10.29	2.56	10.01	20.30	12.57	56.00	46.00	35.70	33.43	L
15	5.84796	11.44	5.38	10.18	21.62	15.56	60.00	50.00	38.38	34.44	L
16	9.45358	18.70	11.88	10.32	29.02	22.20	60.00	50.00	30.98	27.80	L
17	24.01941	13.73	6.93	10.61	24.34	17.54	60.00	50.00	35.66	32.46	L

AC Line Conducted Emissions (Graph)

Test Mode: U-NII 2A & 802.11ax HE20 & MIMO(CDD) & 5320 MHz

AC Line Conducted Emissions (Data List)

Test Mode: U-NII 2A & 802.11ax HE20 & MIMO(CDD) & 5320 MHz
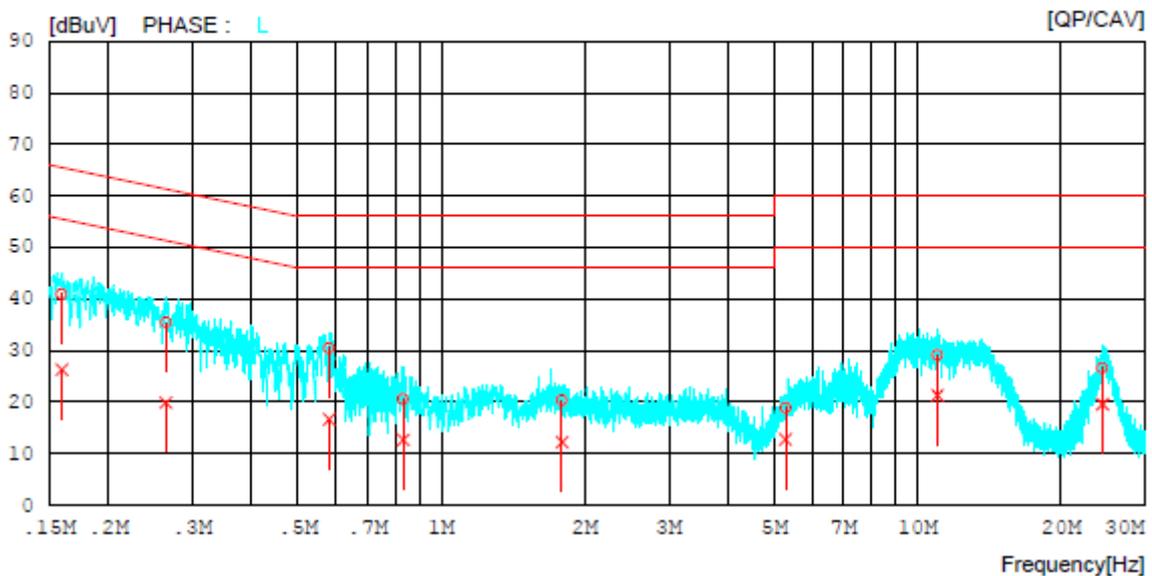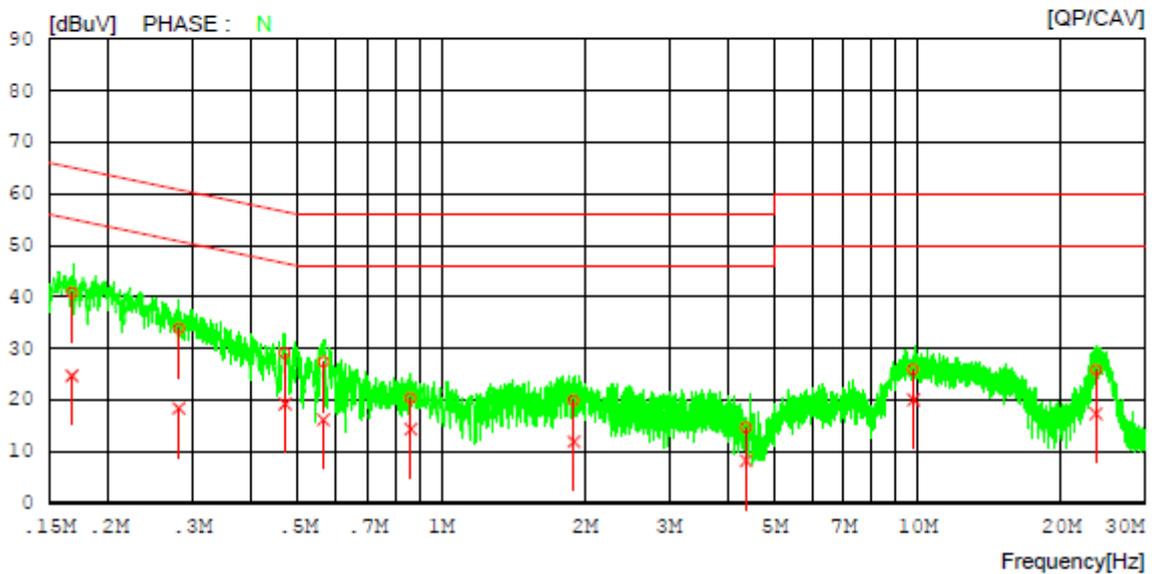
Results of Conducted Emission

DTNC　　　　　　　　　　　　　　　　　　　　　　Date 2020-01-24

Order No.　　　　　　　　　　　　　　Referrence No.
Model No.　　　LM-V600EA　　　　　　Power Supply　　120 V, 60 Hz
Serial No.　　　　　　　　　　　　　　Temp/Humi.　　　23 'C / 35 %
Test Condition　ax_5.3G　　　　　　　　Operator　　　　Kim Jung woo

Memo

LIMIT : FCC P15.207 QP
　　　　FCC P15.207 AV

NO	FREQ	READING QP	CAV	C.FACTOR	RESULT QP	CAV	LIMIT QP	CAV	MARGIN QP	CAV	PHASE
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.16742	30.83	14.75	9.94	40.77	24.69	65.09	55.09	24.32	30.40	N
2	0.28108	23.95	8.46	9.94	33.89	18.40	60.78	50.78	26.89	32.38	N
3	0.46933	19.16	9.33	9.95	29.11	19.28	56.53	46.53	27.42	27.25	N
4	0.56561	17.41	6.26	9.95	27.36	16.21	56.00	46.00	28.64	29.79	N
5	0.86208	10.42	4.38	9.97	20.39	14.35	56.00	46.00	35.61	31.65	N
6	1.89730	9.88	1.91	10.03	19.91	11.94	56.00	46.00	36.09	34.06	N
7	4.36446	4.53	-1.92	10.13	14.66	8.21	56.00	46.00	41.34	37.79	N
8	9.80365	15.55	9.67	10.34	25.89	20.01	60.00	50.00	34.11	29.99	N
9	23.71010	15.12	6.68	10.62	25.74	17.30	60.00	50.00	34.26	32.70	N
10	0.15946	30.99	16.36	9.94	40.93	26.30	65.49	55.49	24.56	29.19	L
11	0.26365	25.52	9.91	9.94	35.46	19.85	61.32	51.32	25.86	31.47	L
12	0.58067	20.49	6.60	9.95	30.44	16.55	56.00	46.00	25.56	29.45	L
13	0.83083	10.53	2.69	9.96	20.49	12.65	56.00	46.00	35.51	33.35	L
14	1.79023	10.25	2.12	10.02	20.27	12.14	56.00	46.00	35.73	33.86	L
15	5.28268	8.64	2.53	10.16	18.80	12.69	60.00	50.00	41.20	37.31	L
16	11.00656	18.68	10.89	10.36	29.04	21.25	60.00	50.00	30.96	28.75	L
17	24.44353	15.89	8.94	10.62	26.51	19.56	60.00	50.00	33.49	30.44	L

AC Line Conducted Emissions (Graph)
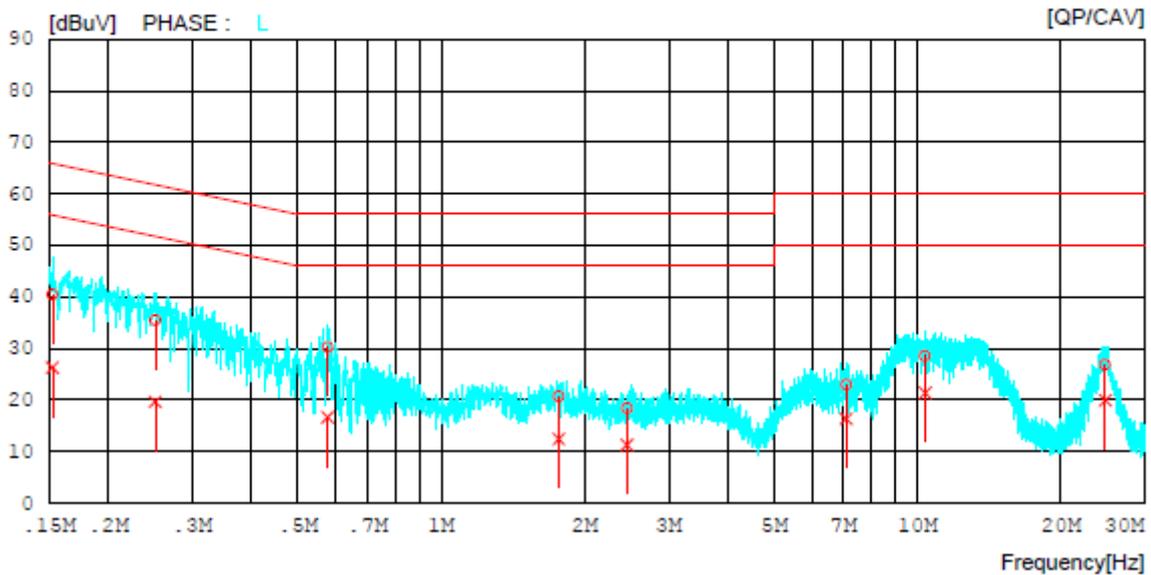
Test Mode: U-NII 2C & 802.11ax HE20 & MIMO(CDD) & 5500 MHz
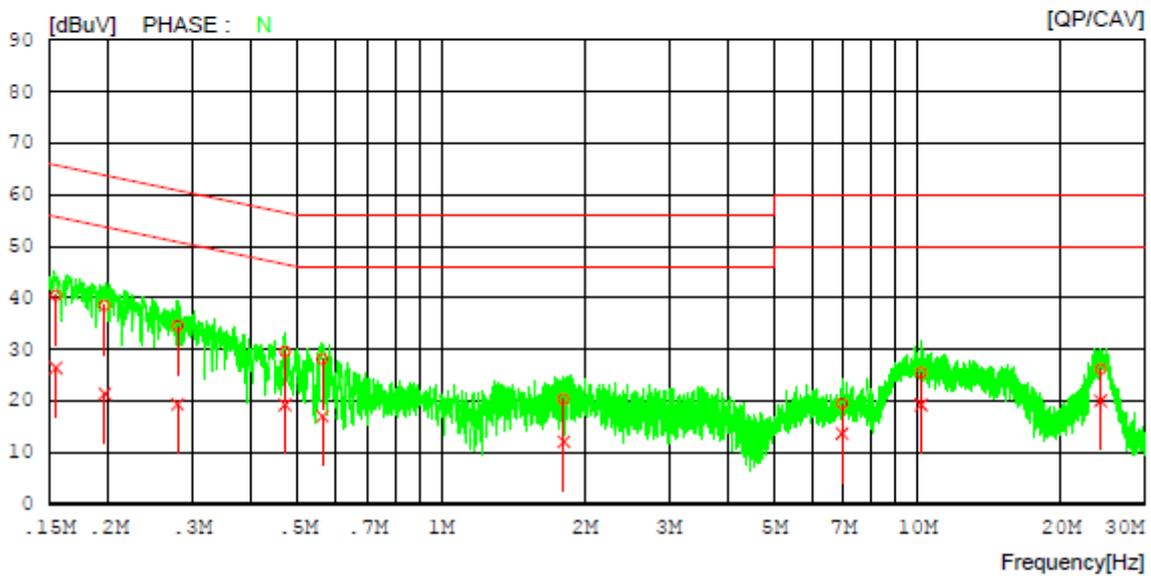
Results of Conducted Emission

DTNC   Date 2020-01-24

Order No.   Refference No.
Model No.   LM-V600EA   Power Supply   120 V, 60 Hz
Serial No.   Temp/Humi.   23 'C / 35 %
Test Condition   ax_5.5G   Operator   Kim Jung woo

Memo

LIMIT : FCC P15.207 QP
        FCC P15.207 AV

Dt&C

AC Line Conducted Emissions (Data List)

Test Mode: U-NII 2C & 802.11ax HE20 & MIMO(CDD) & 5500 MHz

Results of Conducted Emission

DTNC   Date 2020-01-24

Order No.	Refference No.
Model No. LM-V600EA	Power Supply 120 V, 60 Hz
Serial No.	Temp/Humi. 23 'C / 35 %
Test Condition ax_5.5G	Operator Kim Jung woo

Memo

LIMIT : FCC P15.207 QP
        FCC P15.207 AV

NO	FREQ [MHz]	READING QP [dBuV]	READING CAV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT CAV [dBuV]	LIMIT QP [dBuV]	LIMIT CAV [dBuV]	MARGIN QP [dBuV]	MARGIN CAV [dBuV]	PHASE
1	0.15520	30.52	16.47	9.94	40.46	26.41	65.72	55.72	25.26	29.31	N
2	0.19646	28.54	11.49	9.94	38.48	21.43	63.76	53.76	25.28	32.33	N
3	0.27937	24.60	9.47	9.94	34.54	19.41	60.83	50.83	26.29	31.42	N
4	0.46982	19.58	9.29	9.95	29.53	19.24	56.52	46.52	26.99	27.28	N
5	0.56271	18.17	7.11	9.95	28.12	17.06	56.00	46.00	27.88	28.94	N
6	1.80805	10.38	2.05	10.02	20.40	12.07	56.00	46.00	35.60	33.93	N
7	6.94428	9.23	3.44	10.22	19.45	13.66	60.00	50.00	40.55	36.34	N
8	10.18478	15.11	8.95	10.34	25.45	19.29	60.00	50.00	34.55	30.71	N
9	24.27374	15.54	9.41	10.64	26.18	20.05	60.00	50.00	33.82	29.95	N
10	0.15253	30.45	16.34	9.94	40.39	26.28	65.86	55.86	25.47	29.58	L
11	0.25054	25.47	9.68	9.94	35.41	19.62	61.74	51.74	26.33	32.12	L
12	0.57750	20.25	6.61	9.95	30.20	16.56	56.00	46.00	25.80	29.44	L
13	1.76362	10.63	2.37	10.02	20.65	12.39	56.00	46.00	35.35	33.61	L
14	2.45423	8.36	1.23	10.04	18.40	11.27	56.00	46.00	37.60	34.73	L
15	7.08290	12.73	6.10	10.22	22.95	16.32	60.00	50.00	37.05	33.68	L
16	10.37503	18.16	10.99	10.35	28.51	21.34	60.00	50.00	31.49	28.66	L
17	24.79144	16.17	9.25	10.63	26.80	19.88	60.00	50.00	33.20	30.12	L

AC Line Conducted Emissions (Data List)

Dt&C

AC Line Conducted Emissions (Graph)

Test Mode: U-NII 2C   &   802.11ax HE20   &   MIMO(CDD)   &   5785 MHz

Results of Conducted Emission
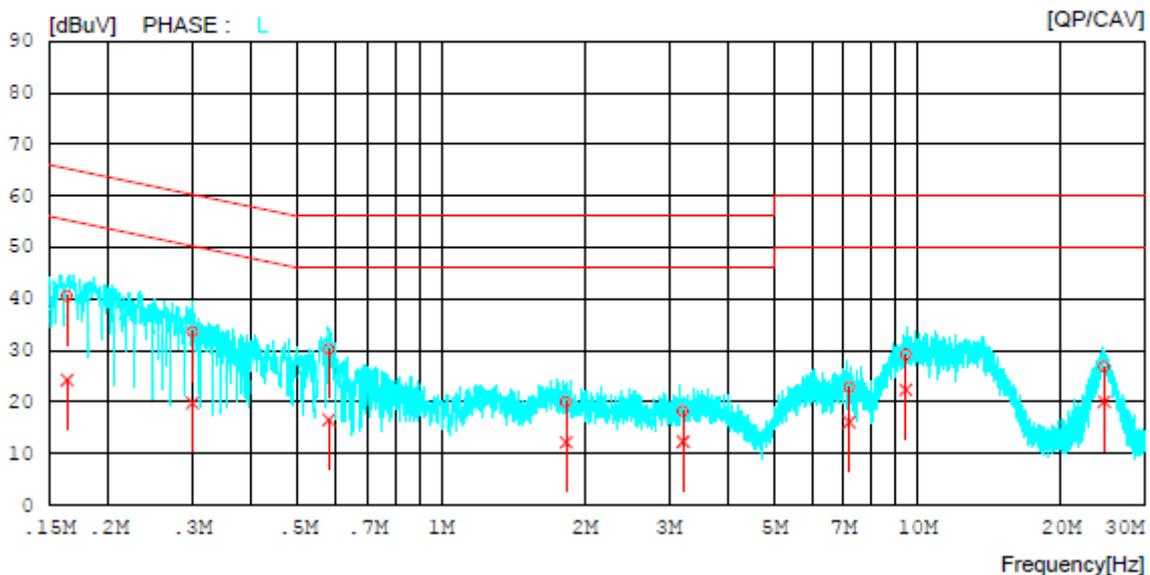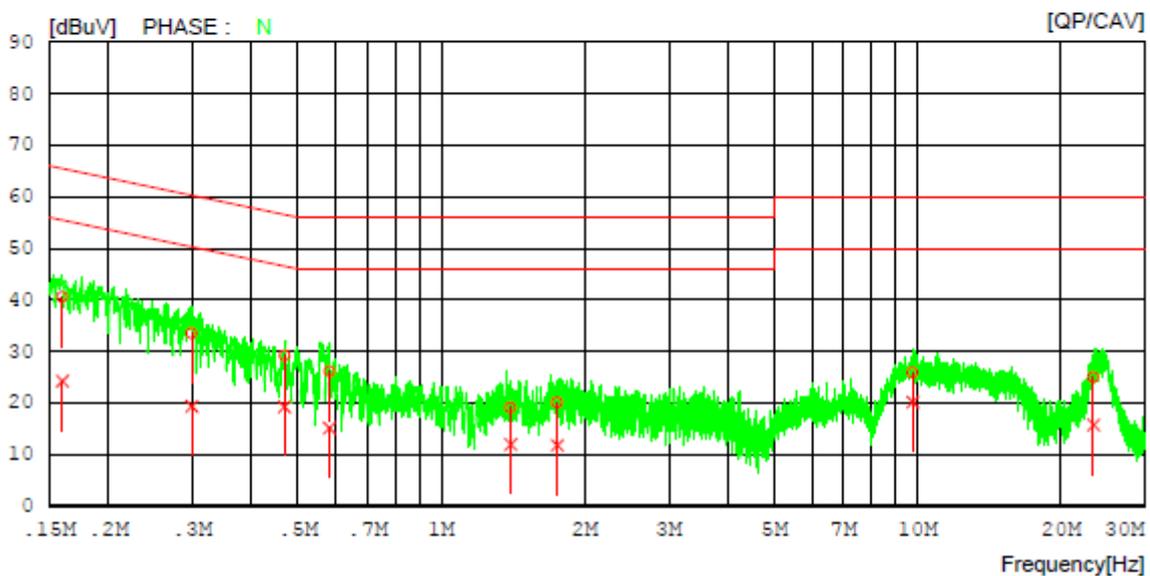
DTNC   Date 2020-01-24

Order No.   Refference No.
Model No.   LM-V600EA   Power Supply   120 V, 60 Hz
Serial No.   Temp/Humi.   23 'C / 35 %
Test Condition   ax_5.7G   Operator   Kim Jung woo

Memo

LIMIT : FCC P15.207 QP
        FCC P15.207 AV

Dt&C

AC Line Conducted Emissions (Data List)

Test Mode: U-NII 2C   &   802.11a   &   MIMO(CDD)   &   5785 MHz

Results of Conducted Emission

DTNC   Date 2020-01-24

Order No.   Refference No.
Model No.   LM-V600EA   Power Supply   120 V, 60 Hz
Serial No.   Temp/Humi.   23 'C / 35 %
Test Condition   ax_5.7G   Operator   Kim Jung woo

Memo

LIMIT : FCC P15.207 QP
        FCC P15.207 AV

NO	FREQ [MHz]	READING QP [dBuV]	CAV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	CAV [dBuV]	LIMIT QP [dBuV]	CAV [dBuV]	MARGIN QP [dBuV]	CAV [dBuV]	PHASE
1	0.15976	30.59	14.33	9.94	40.53	24.27	65.48	55.48	24.95	31.21	N
2	0.29904	23.55	9.44	9.94	33.49	19.38	60.27	50.27	26.78	30.89	N
3	0.46850	19.20	9.30	9.95	29.15	19.25	56.54	46.54	27.39	27.29	N
4	0.58208	16.17	5.26	9.95	26.12	15.21	56.00	46.00	29.88	30.79	N
5	1.39692	9.08	2.02	9.99	19.07	12.01	56.00	46.00	36.93	33.99	N
6	1.75017	10.04	1.80	10.02	20.06	11.82	56.00	46.00	35.94	34.18	N
7	9.76629	15.55	9.82	10.34	25.89	20.16	60.00	50.00	34.11	29.84	N
8	23.42690	14.36	5.14	10.62	24.98	15.76	60.00	50.00	35.02	34.24	N
9	0.16357	30.62	14.30	9.94	40.56	24.24	65.28	55.28	24.72	31.04	L
10	0.29987	23.69	9.87	9.94	33.63	19.81	60.25	50.25	26.62	30.44	L
11	0.58044	20.25	6.57	9.95	30.20	16.52	56.00	46.00	25.80	29.48	L
12	1.82840	9.97	2.09	10.02	19.99	12.11	56.00	46.00	36.01	33.89	L
13	3.21546	8.03	2.20	10.06	18.09	12.26	56.00	46.00	37.91	33.74	L
14	7.18588	12.55	5.78	10.22	22.77	16.00	60.00	50.00	37.23	34.00	L
15	9.45005	18.88	12.02	10.32	29.20	22.34	60.00	50.00	30.80	27.66	L
16	24.65454	16.14	9.42	10.63	26.77	20.05	60.00	50.00	33.23	29.95	L

9. LIST OF TEST EQUIPMENT

| Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	19/12/16	20/12/16	MY49060056
Spectrum Analyzer	Agilent Technologies	N9020A	19/12/16	20/12/16	MY48011700
Spectrum Analyzer	Agilent Technologies	N9020A	19/12/16	20/12/16	MY46471251
Spectrum Analyzer	Agilent Technologies	N9030A	19/12/16	20/12/16	MY53310140
DC Power Supply	Agilent Technologies	66332A	19/12/19	20/12/19	US37476998
Multimeter	FLUKE	17B	19/12/16	20/12/16	26030065WS
Signal Generator	Rohde Schwarz	SMBV100A	19/12/16	20/12/16	255571
Signal Generator	ANRITSU	MG3695C	19/12/16	20/12/16	173501
Thermohygrometer	BODYCOM	BJ5478	19/12/18	20/12/18	120612-1
Thermohygrometer	BODYCOM	BJ5478	19/12/18	20/12/18	120612-2
Thermohygrometer	BODYCOM	BJ5478	19/09/18	20/09/18	N/A
Loop Antenna	ETS-Lindgren	6502	19/09/18	20/09/18	00226186
BILOG ANTENNA	Schwarzbeck	VULB 9160	19/04/23	21/04/23	9160-3362
Horn Antenna	ETS-Lindgren	3115	19/01/11	21/01/11	9202-3820
Horn Antenna	A.H.Systems Inc.	SAS-574	19/07/03	21/07/03	155
PreAmplifier	tsj	MLA-0118-B01-40	19/12/16	20/12/16	1852267
PreAmplifier	tsj	MLA-1840-J02-45	19/06/27	20/06/27	16966-10728
PreAmplifier	H.P	8447D	19/12/16	20/12/16	2944A07774
High Pass Filter	Wainwright Instruments	WHKX12-935-1000-15000-40SS	19/06/26	20/06/26	8
High Pass Filter	Wainwright Instruments	WHKX10-2838-3300-18000-60SS	19/06/26	20/06/26	1
High Pass Filter	Wainwright Instruments	WHNX8.0/26.5-6SS	19/06/27	20/06/27	3
Attenuator	Hefei Shunze	SS5T2.92-10-40	19/06/27	20/06/27	16012202
Attenuator	SRTechnology	F01-B0606-01	19/06/27	20/06/27	13092403
Attenuator	Aeroflex/Weinschel	20515	19/06/27	20/06/27	Y2370
Attenuator	SMAJK	SMAJK-2-3	19/06/27	20/06/27	2
Attenuator	SMAJK	SMAJK-50-10	19/06/25	20/06/25	15081903
Power Meter & Wide Bandwidth Sensor	Anritsu	ML2496A ML2495A	19/06/24 19/12/16	20/06/24 20/12/16	1338004 1306007
EMI Receiver	ROHDE&SCHWARZ	ESW44	19/07/30	20/07/30	101645
HYGROMETER	TESTO	608-H1	19/01/31 20/01/21	20/01/31 21/01/21	34862883
EMI Test Receiver	Rohde Schwarz	ESCI7	19/01/30 20/01/20	20/01/30 21/01/20	100910
PULSE LIMITER	Rohde Schwarz	ESH3-Z2	19/09/17	20/09/17	101333
LISN	SCHWARZBECK	NNLK 8121	19/05/23	20/05/23	6183
Cable	Junkosha	MWX241	19/01/14 20/01/13	20/01/14 21/01/13	G-04
Cable	Junkosha	MWX241	19/01/14 20/01/13	20/01/14 21/01/13	G-07
Cable	DT&C	Cable	19/01/14 20/01/13	20/01/14 21/01/13	G-13
Cable	DT&C	Cable	19/01/14 20/01/13	20/01/14 21/01/13	G-14

Note 1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017
Note 2: The cable is not a regular calibration item, so it has been calibrated by DT & C itself.

Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N
Cable	HUBER+SUHNER	SUCOFLEX 104	19/01/14	20/01/14	G-15
			20/01/13	21/01/13	
Cable	Radiall	TESTPRO3	19/01/16	20/01/16	M-01
			20/01/16	21/01/16	
Cable	Junkosha	MWX315	19/01/16	20/01/16	M-05
			20/01/16	21/01/16	
Cable	Junkosha	MWX221	19/01/16	20/01/16	M-06
			20/01/16	21/01/16	
Cable	DT&C	Cable	19/01/16	20/01/16	RF-82
			20/01/16	21/01/16	

Note 1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017
Note 2: The cable is not a regular calibration item, so it has been calibrated by DT & C itself.

APPENDIX I

Conducted Test set up Diagram

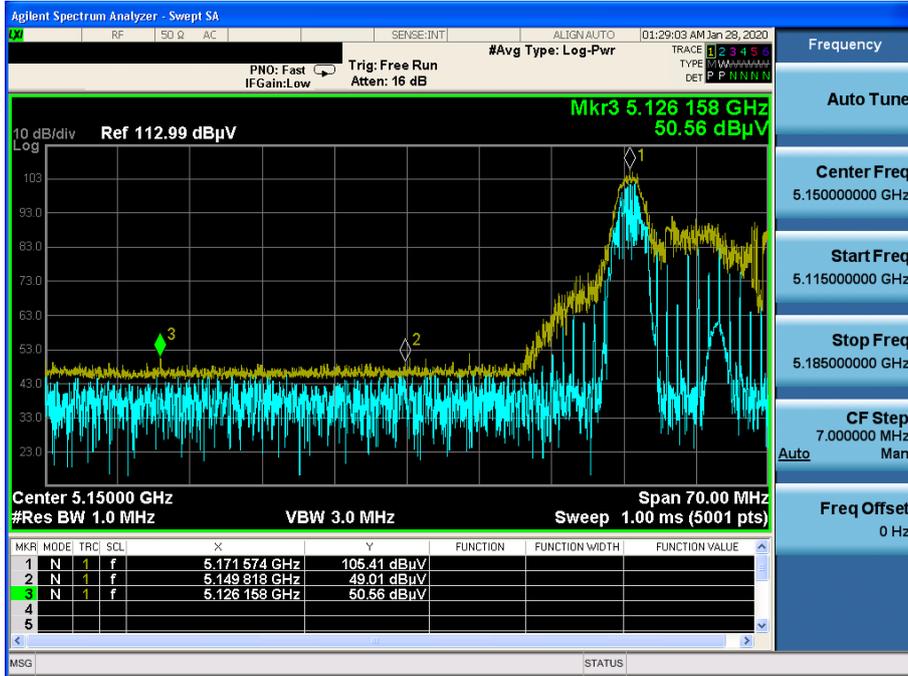### ▪ Conducted Measurement
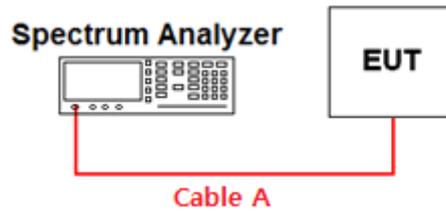
▪ T (On time)

The worst case(Minimum on time)
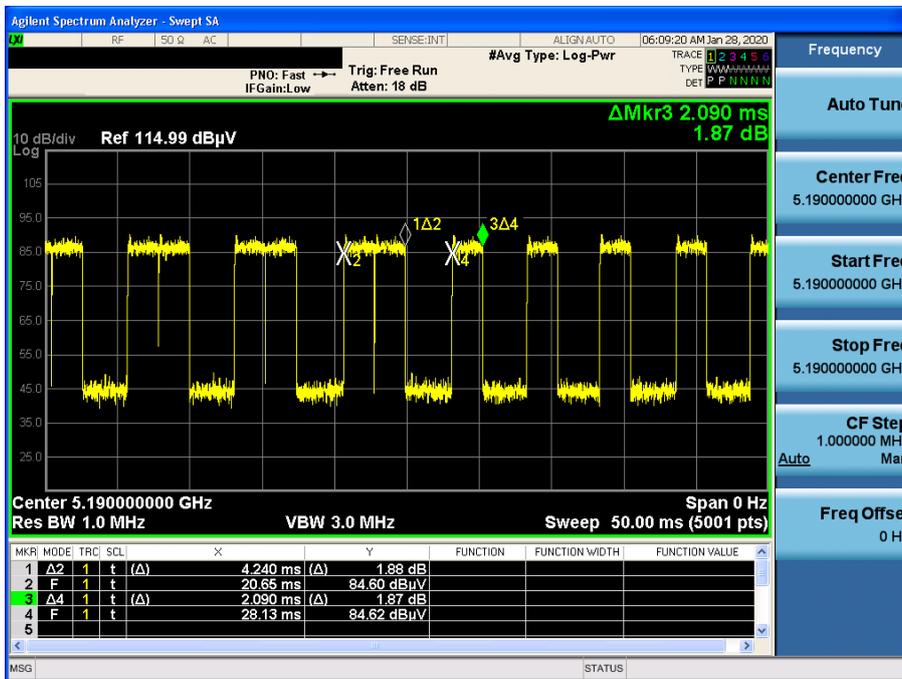
T$_{on}$(ms)	1/T [kHz]	VBW
2.090	0.478	1 kHz

APPENDIX II

Unwanted Emissions (Radiated) Test Plot: MIMO(CDD)

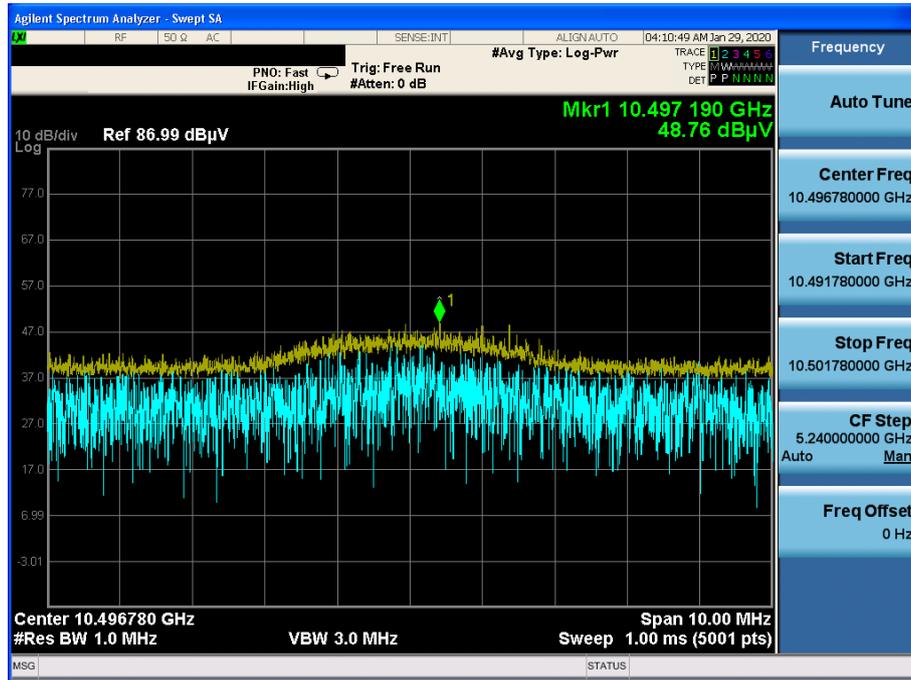**802.11ax HE20 & U-NII 1 & Ch.36 & Z axis & Hor & 26T & 0RU**   **Detector Mode : PK**

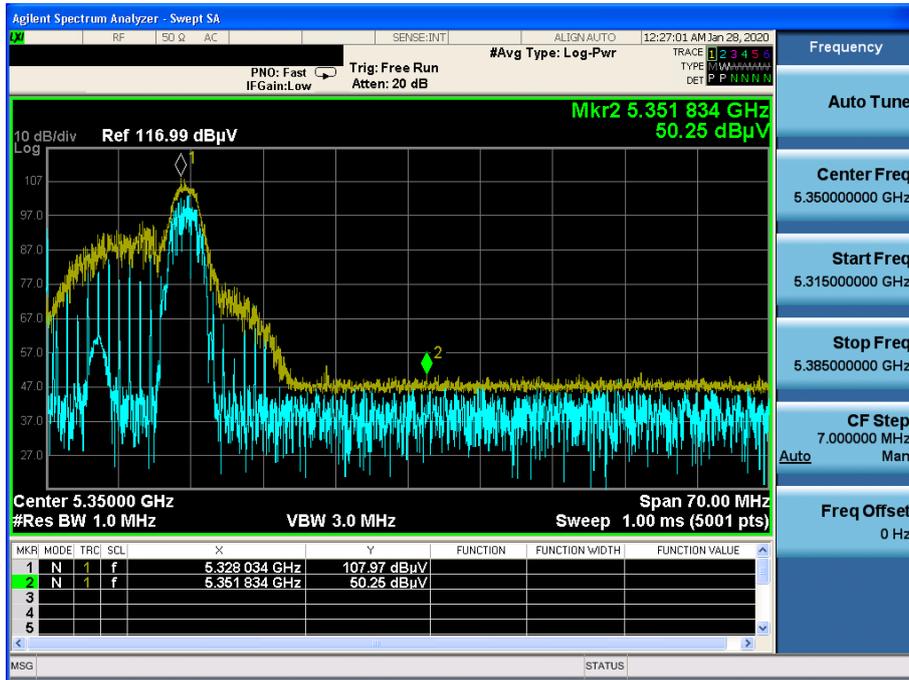**802.11ax HE20 & U-NII 1 & Ch.36 & Z axis & Hor & SU**   **Detector Mode : AV**

802.11ax HE20 & U-NII 1 & Ch.48 & X axis & Ver & 26T & 8RU   Detector Mode : PK

802.11ax HE20 & U-NII 1 & Ch.64 & Z axis & Hor & 26T & 8RU Detector Mode : PK

802.11ax HE20 & U-NII 1 & Ch.64 & Z axis & Hor & 26T & 8RU Detector Mode : AV