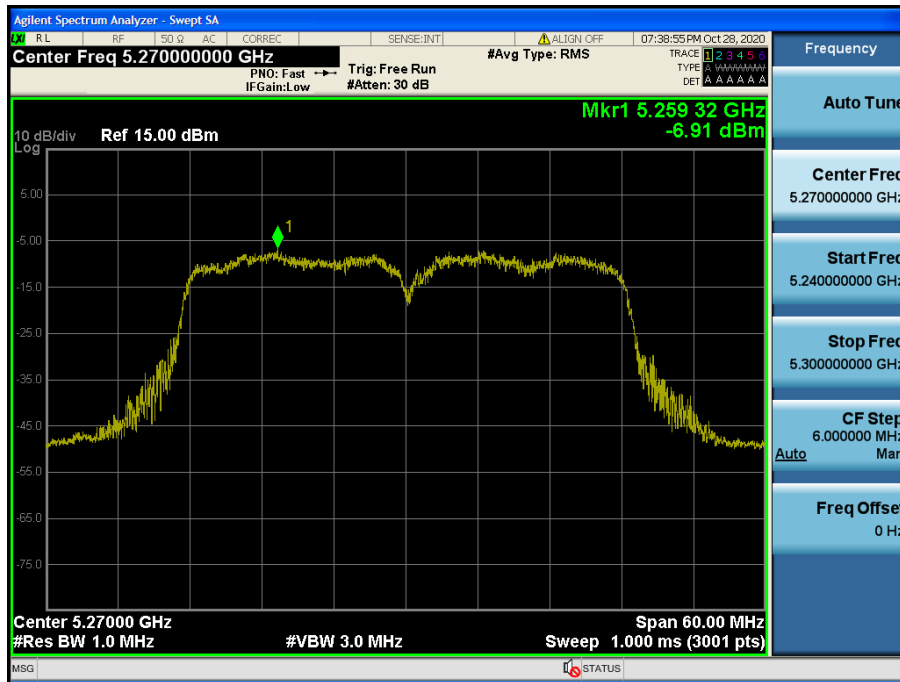


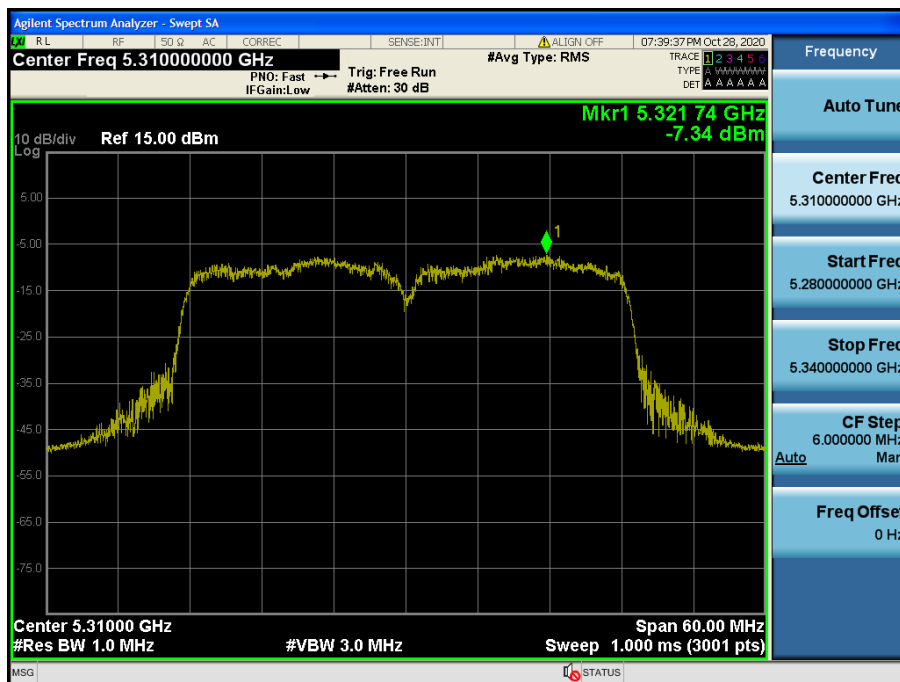
Maximum Power Spectral Density

Test Mode: TM 3 & Ch.54



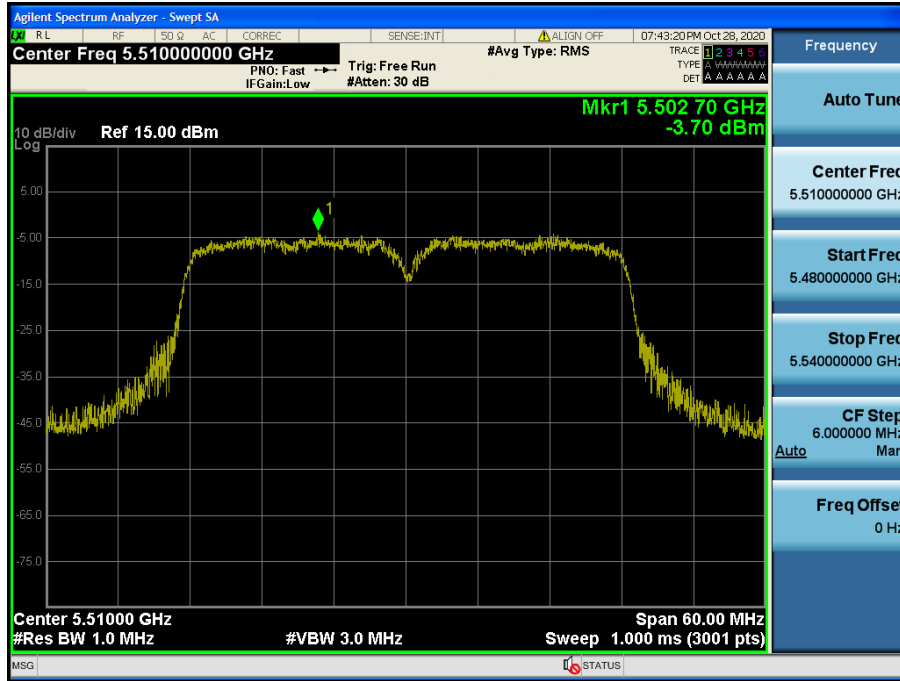
Maximum Power Spectral Density

Test Mode: TM 3 & Ch.62



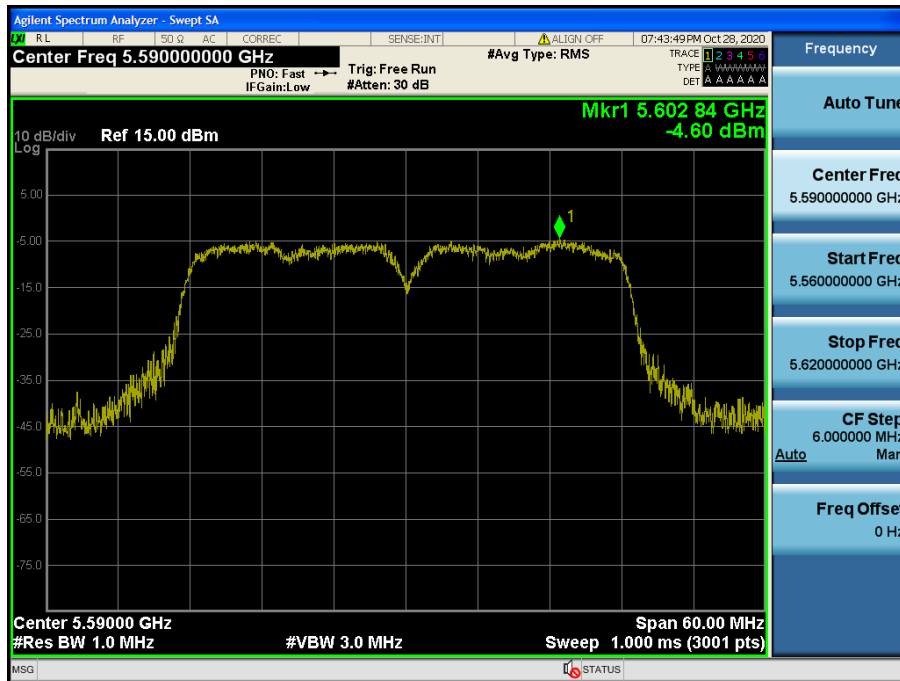
Maximum Power Spectral Density

Test Mode: TM 3 & Ch.102



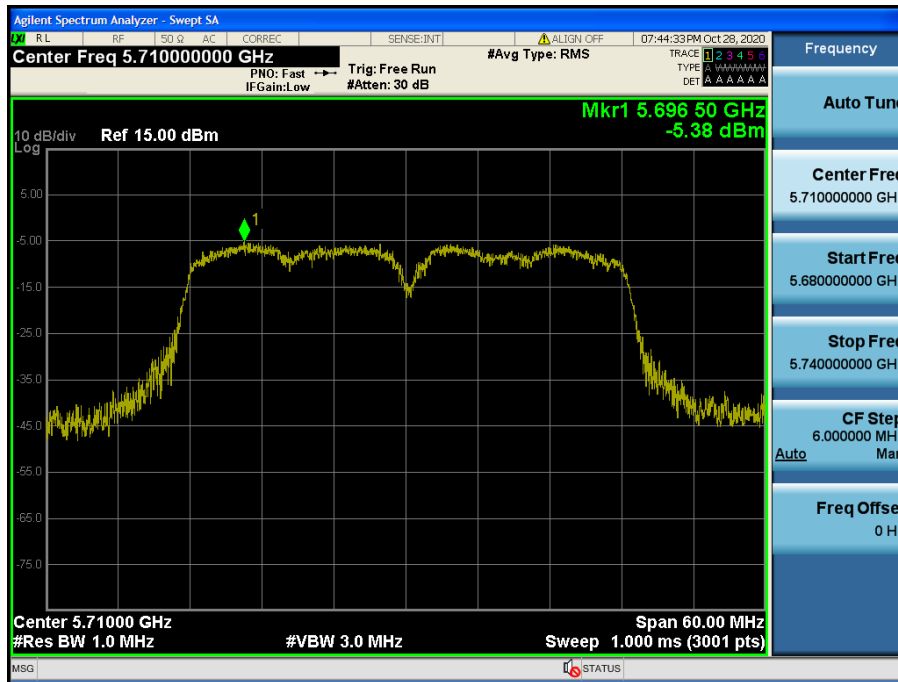
Maximum Power Spectral Density

Test Mode: TM 3 & Ch.118



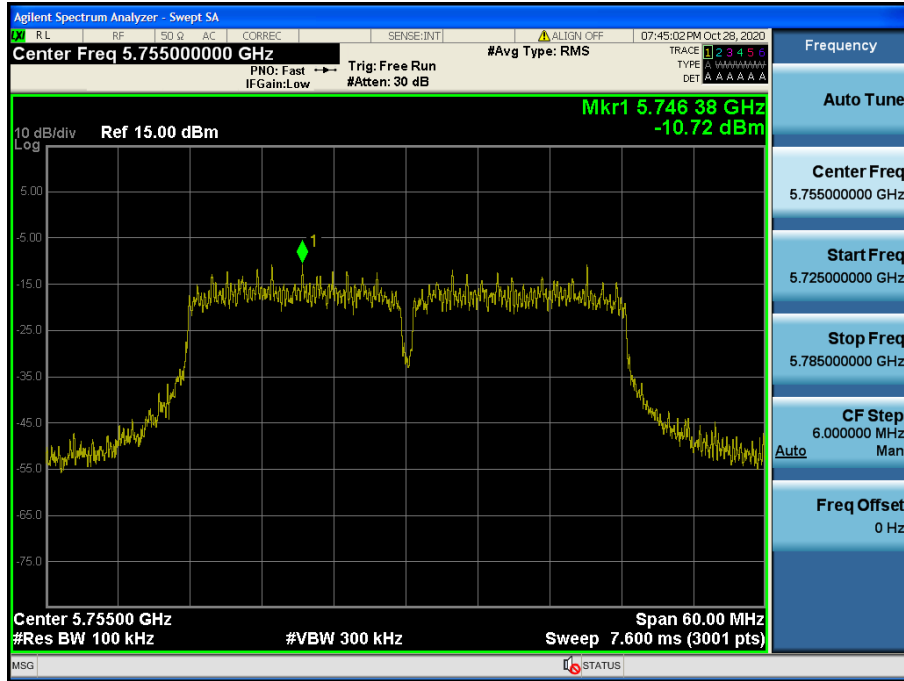
Maximum Power Spectral Density

Test Mode: 802.11n HT40 & Ch.142



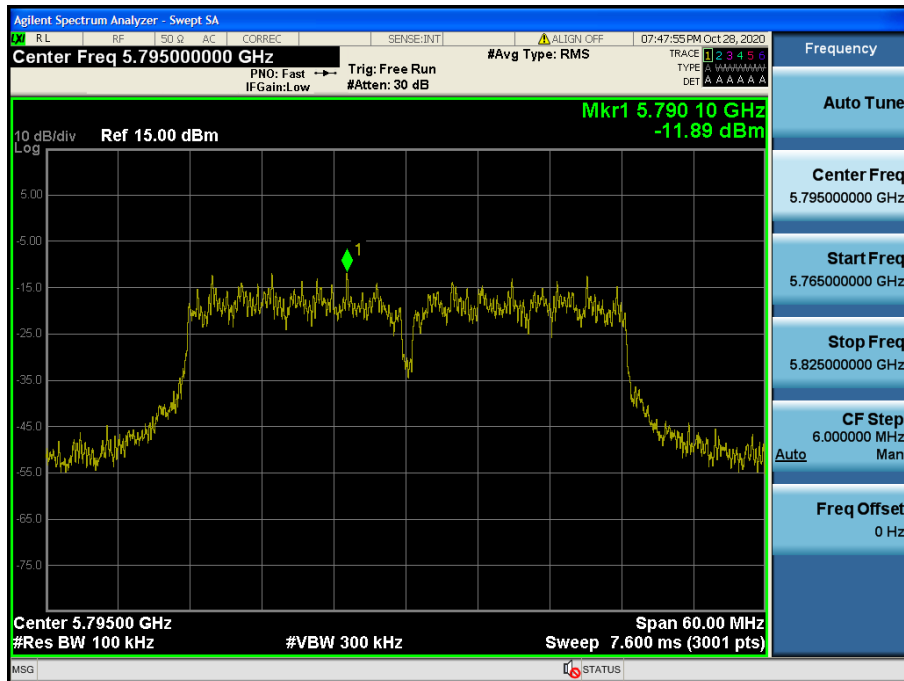
Maximum Power Spectral Density

Test Mode: 802.11n HT40 & Ch.151



Maximum Power Spectral Density

Test Mode: 802.11n HT40 & Ch.159



Maximum Power Spectral Density

Test Mode: TM 4 & Ch.42



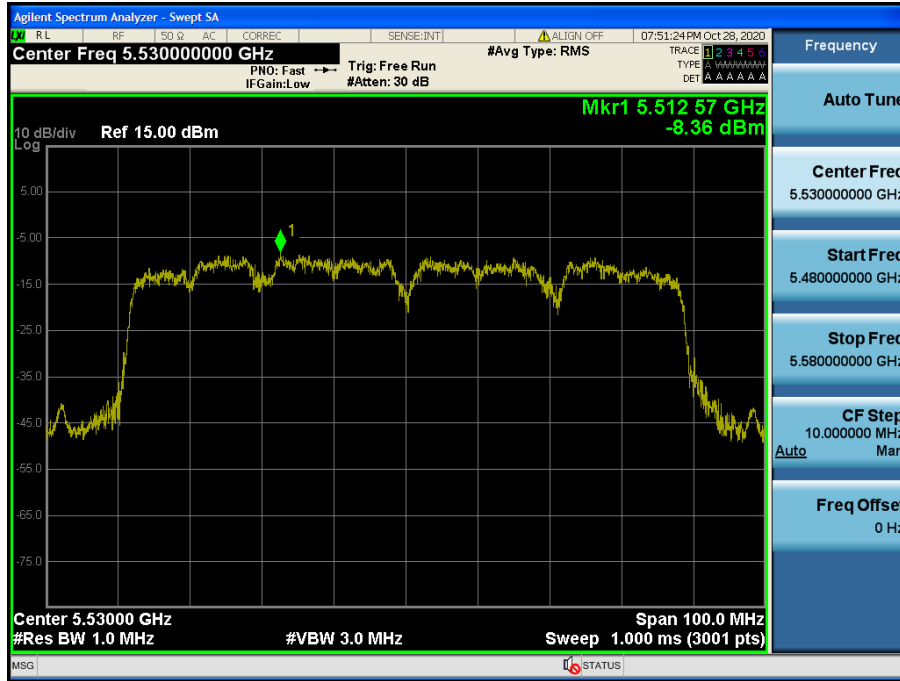
Maximum Power Spectral Density

Test Mode: TM 4 & Ch.58



Maximum Power Spectral Density

Test Mode: TM 4 & Ch.106



Maximum Power Spectral Density

Test Mode: TM 4 & Ch.122



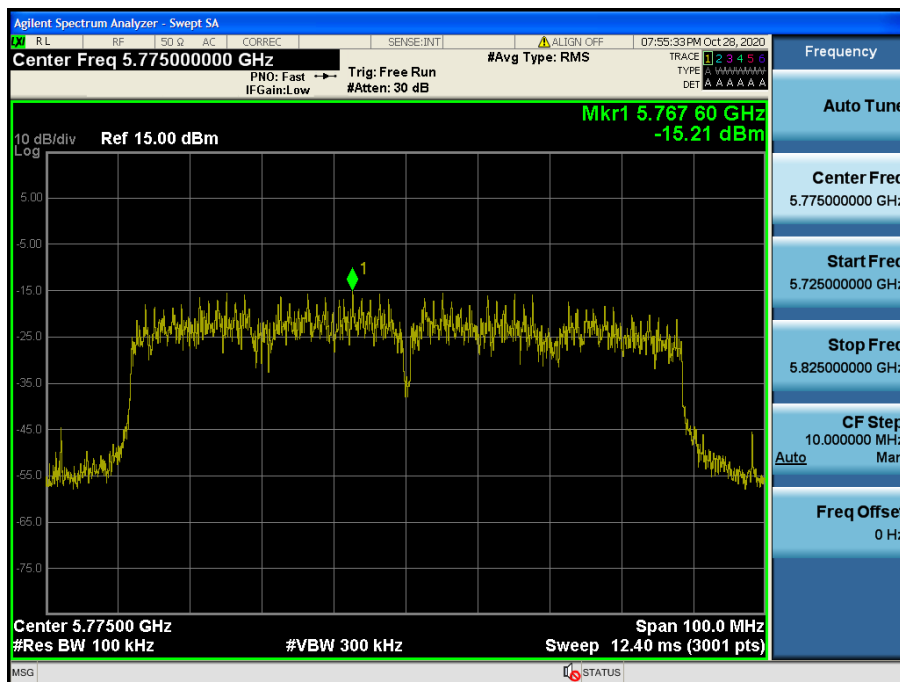
Maximum Power Spectral Density

Test Mode: TM 4 & Ch.138



Maximum Power Spectral Density

Test Mode: TM 4 & 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	2 400 / F (kHz)	300
0.490 – 1.705	24 000 / 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 MHz - 72 MHz, 76 MHz - 88 MHz, 174 MHz - 216 MHz or 470 MHz - 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:

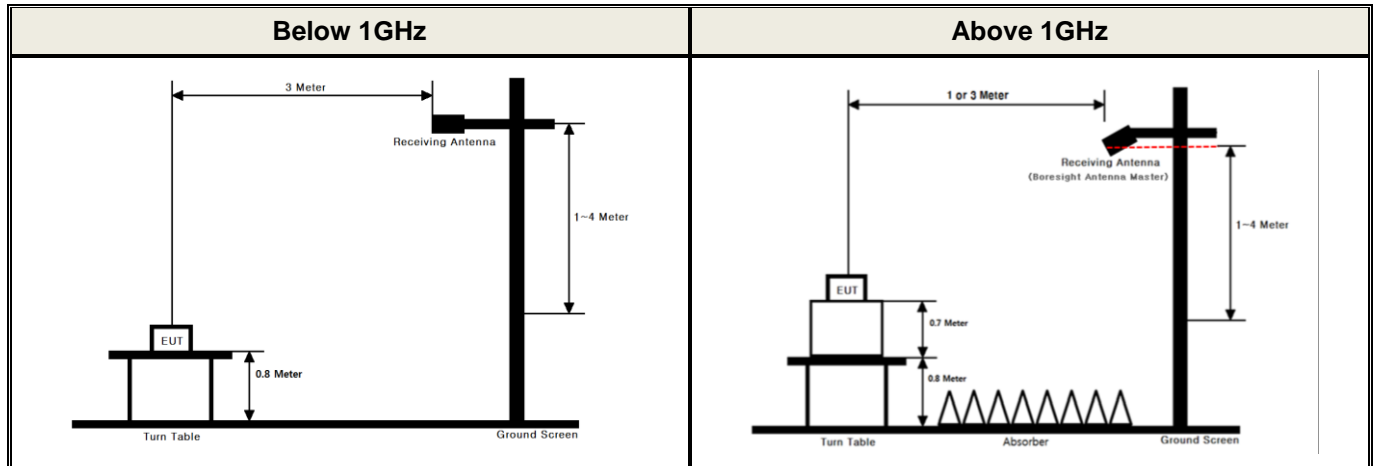
MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.414 25 ~ 8.414 75	108 ~ 121.94	1 300 ~ 1 427	4.5 ~ 5.15	14.47 ~ 14.5
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1 435 ~ 1 626.5	5.35 ~ 5.46	15.35 ~ 16.2
2.173 5 ~ 2.190 5	12.519 75 ~ 12.520 25	149.9 ~ 150.05	1 645.5 ~ 1 646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.576 75 ~ 12.577 25	156.524 75 ~ 156.525 25	1 660 ~ 1 710	8.025 ~ 8.5	22.01 ~ 23.12
4.177 25 ~ 4.177 75	13.36 ~ 13.41	156.7 ~ 156.9	1 718.8 ~ 1 722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.207 25 ~ 4.207 75	16.42 ~ 16.423	162.0125 ~ 167.17	2 200 ~ 2 300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	16.694 75 ~ 16.695 25	167.72 ~ 173.2	2 310 ~ 2 390	10.6 ~ 12.7	36.43 ~ 36.5
6.267 75 ~ 6.268 25	16.804 25 ~ 16.804 75	240 ~ 285	2 483.5 ~ 2 500	13.25 ~ 13.4	Above 38.6
6.311 75 ~ 6.312 25	25.5 ~ 25.67	322 ~ 335.4	2 690 ~ 2 900		
8.291 ~ 8.294	37.5 ~ 38.25	399.90 ~ 410	3 260 ~ 3 267		
8.362 ~ 8.366	73 ~ 74.6	608 ~ 614	3 332 ~ 3 339		
8.376 25 ~ 8.386 75	74.8 ~ 75.2	960 ~ 1 240	3 345.8 ~ 3 358		
			3 600 ~ 4 400		

• **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 1 000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1 000 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 GHz - 5.25 GHz band**: all emissions outside of the **5.15 GHz - 5.35 GHz band** shall not exceed an **EIRP of -27 dBm/MHz**.
- (2) For transmitters operating in the **5.25 GHz - 5.35 GHz band**: all emissions outside of the **5.15 GHz - 5.35 GHz band** shall not exceed an **EIRP of -27 dBm/MHz**.
- (3) For transmitters operating in the **5.47 GHz - 5.725 GHz band**: all emissions outside of the **5.47 GHz - 5.725 GHz band** shall not exceed an **EIRP of -27 dBm/MHz**.
- (4) For transmitters operating in the **5.725 GHz - 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



■ 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 1 000 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 1 000 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 AD)

- (i) **RBW = 1 MHz.**
- (ii) **VBW ≥ 3 MHz.**
- (iii) **Detector = RMS**, if $\text{span} / (\# \text{ of points in sweep}) \leq \text{RBW} / 2$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, the detector mode shall be set to peak.
- (iv) Averaging type = power (i.e., RMS)
 - As an alternative, the detector and averaging type may be set for linear voltage averaging. Some analyzers require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- (v) Sweep time = Auto.
- (vi) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, the number of traces shall be increased by a factor of $1/x$, where x is the duty cycle. For example, with 50 percent duty cycle, at least 200 traces shall be averaged.
- (vii) If tests are performed with the EUT transmitting at a duty cycle less than 98 percent, a correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - **If power averaging (RMS) mode was used in step (iv) above, the correction factor is $10 \log(1/x)$, where x is the duty cycle.** For example, if the transmit duty cycle was 50 percent, then 3 dB must be added to the measured emission levels.
 - If linear voltage averaging mode was used in step (iv) above, the correction factor is $20 \log(1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50 percent, then 6 dB must be added to the measured emission levels.
 - If a specific emission is demonstrated to be continuous (100 percent duty cycle) rather than turning on and off with the transmit cycle, no duty cycle correction is required for that emission.

Please refer to Appendix II for the duty cycle correction factor

Test Results: Comply

Test Notes

1. The radiated emissions were investigated 9 kHz to 40 GHz. And no other spurious and harmonic emissions were found below listed frequencies.

2. Sample Calculation.

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} + \text{HL} + \text{AL} - \text{AG}$$

Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, HL = High pass filter Loss, AL = Attenuator Loss,

DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor.

3. Information of Distance Correction Factor

For finding emissions, measurements may be performed at a distance closer than that specified in the regulations.

In this case, the distance correction factor is applied to the result.

- Calculation of distance correction factor

At frequencies below 30 MHz = $40 \log(\text{tested distance} / \text{specified distance})$

At frequencies at or above 30 MHz = $20 \log(\text{tested distance} / \text{specified distance})$

4. The limit is converted to field strength.

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2 \text{ dB} = -27 \text{ dBm} + 95.2 = 68.2 \text{ dBuV/m}$$

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : TM1

Band	Tested Channel	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1	36 (5 180 MHz)	5 149.07	V	X	PK	50.91	1.79	N/A	N/A	52.70	74.00	21.30
		5 148.63	V	X	AV	41.20	1.78	3.34	N/A	46.32	54.00	7.68
		10 360.19	V	X	PK	43.89	7.98	N/A	N/A	51.87	68.20	16.33
	40 (5 200 MHz)	10 400.47	V	X	PK	42.95	8.03	N/A	N/A	50.98	68.20	17.22
	48 (5 240 MHz)	10 480.08	V	X	PK	44.43	8.18	N/A	N/A	52.61	68.20	15.59
U-NII 2A	52 (5 260 MHz)	10 520.40	V	X	PK	44.35	8.28	N/A	N/A	52.63	68.20	15.57
	60 (5 300 MHz)	10 600.06	V	X	PK	44.62	8.64	N/A	N/A	53.26	74.00	20.74
		10 600.25	V	X	AV	35.78	8.64	3.34	N/A	47.76	54.00	6.24
	64 (5 320 MHz)	5 352.73	V	X	PK	50.51	3.34	N/A	N/A	53.85	74.00	20.15
		5 352.52	V	X	AV	40.70	3.34	3.34	N/A	47.38	54.00	6.62
		10 640.54	V	X	PK	43.84	8.89	N/A	N/A	52.73	74.00	21.27
		10 640.08	V	X	AV	35.75	8.88	3.34	N/A	47.97	54.00	6.03
U-NII 2C	100 (5 500 MHz)	5 458.61	V	X	PK	49.99	3.43	N/A	N/A	53.42	74.00	20.58
		5 458.73	V	X	AV	40.47	3.43	3.34	N/A	47.24	54.00	6.76
		5 467.53	V	X	PK	49.03	3.43	N/A	N/A	52.46	68.20	15.74
		11 000.08	V	X	PK	45.85	9.65	N/A	N/A	55.50	74.00	18.50
		11 000.09	V	X	AV	36.81	9.65	3.34	N/A	49.80	54.00	4.20
	120 (5 600 MHz)	11 200.46	V	X	PK	45.17	9.27	N/A	N/A	54.44	74.00	19.56
		11 200.24	V	X	AV	36.56	9.27	3.34	N/A	49.17	54.00	4.83
	144 (5 720 MHz)	11 440.10	V	X	PK	44.72	9.08	N/A	N/A	53.80	74.00	20.20
11 440.21		V	X	AV	35.54	9.08	3.34	N/A	47.96	54.00	6.04	
U-NII 3	149 (5 745 MHz)	5 713.30	V	X	PK	49.17	3.29	N/A	N/A	52.46	68.20	15.74
		5 724.43	V	X	PK	54.44	3.13	N/A	N/A	57.57	78.20	20.63
		11 490.39	V	X	PK	45.20	9.06	N/A	N/A	54.26	74.00	19.74
		11 490.03	V	X	AV	35.69	9.06	3.34	N/A	48.09	54.00	5.91
	157 (5 785 MHz)	11 570.04	V	X	PK	44.25	9.09	N/A	N/A	53.34	74.00	20.66
		11 570.29	V	X	AV	35.35	9.09	3.34	N/A	47.78	54.00	6.22
	165 (5 825 MHz)	5 852.05	V	X	PK	50.62	3.69	N/A	N/A	54.31	78.20	23.89
		5 862.90	V	X	PK	49.48	3.70	N/A	N/A	53.18	68.20	15.02
		11 650.10	V	X	PK	44.57	9.36	N/A	N/A	53.93	74.00	20.07
11 650.20		V	X	AV	34.57	9.36	3.34	N/A	47.27	54.00	6.73	

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : TM2

Band	Tested Channel	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1	36 (5 180 MHz)	5 149.28	V	X	PK	48.30	1.79	N/A	N/A	50.09	74.00	23.91
		5 148.95	V	X	AV	39.44	1.79	4.28	N/A	45.51	54.00	8.49
		10 359.89	V	X	PK	43.21	7.98	N/A	N/A	51.19	68.20	17.01
	40 (5 200 MHz)	10 400.09	V	X	PK	43.18	8.03	N/A	N/A	51.21	68.20	16.99
	48 (5 240 MHz)	10 479.98	V	X	PK	44.85	8.18	N/A	N/A	53.03	68.20	15.17
U-NII 2A	52 (5 260 MHz)	10 520.28	V	X	PK	44.51	8.28	N/A	N/A	52.79	68.20	15.41
	60 (5 300 MHz)	10 600.35	V	X	PK	44.91	8.64	N/A	N/A	53.55	74.00	20.45
		10 600.17	V	X	AV	36.22	8.64	4.28	N/A	49.14	54.00	4.86
	64 (5 320 MHz)	5 350.96	V	X	PK	48.58	3.33	N/A	N/A	51.91	74.00	22.09
		5 350.98	V	X	AV	38.65	3.33	4.28	N/A	46.26	54.00	7.74
		10 640.30	V	X	PK	43.66	8.88	N/A	N/A	52.54	74.00	21.46
		10 640.28	V	X	AV	35.78	8.88	4.28	N/A	48.94	54.00	5.06
U-NII 2C	100 (5 500 MHz)	5 459.22	V	X	PK	48.97	3.43	N/A	N/A	52.40	74.00	21.60
		5 459.45	V	X	AV	38.79	3.43	4.28	N/A	46.50	54.00	7.50
		5 466.57	V	X	PK	49.87	3.43	N/A	N/A	53.30	68.20	14.90
		11 000.19	V	X	PK	45.61	9.65	N/A	N/A	55.26	74.00	18.74
		11 000.25	V	X	AV	35.47	9.65	4.28	N/A	49.40	54.00	4.60
	120 (5 600 MHz)	11 200.25	V	X	PK	45.11	9.27	N/A	N/A	54.38	74.00	19.62
		11 200.30	V	X	AV	36.23	9.27	4.28	N/A	49.78	54.00	4.22
	144 (5 720 MHz)	11 440.30	V	X	PK	44.42	9.08	N/A	N/A	53.50	74.00	20.50
11 440.21		V	X	AV	35.68	9.08	4.28	N/A	49.04	54.00	4.96	
U-NII 3	149 (5 745 MHz)	5 711.23	V	X	PK	49.52	3.29	N/A	N/A	52.81	68.20	15.39
		5 724.00	V	X	PK	48.65	3.14	N/A	N/A	51.79	78.20	26.41
		11 490.09	V	X	PK	44.90	9.06	N/A	N/A	53.96	74.00	20.04
		11 490.22	V	X	AV	35.61	9.06	4.28	N/A	48.95	54.00	5.05
	157 (5 785 MHz)	11 570.14	V	X	PK	44.21	9.09	N/A	N/A	53.30	74.00	20.70
		11 570.35	V	X	AV	35.29	9.09	4.28	N/A	48.66	54.00	5.34
	165 (5 825 MHz)	5 855.41	V	X	PK	48.80	3.73	N/A	N/A	52.53	78.20	25.67
		5 863.53	V	X	PK	48.22	3.69	N/A	N/A	51.91	68.20	16.29
11 650.52		V	X	PK	44.17	9.36	N/A	N/A	53.53	74.00	20.47	
11 650.23		V	X	AV	34.50	9.36	4.28	N/A	48.14	54.00	5.86	

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : TM3

Band	Tested Channel	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1	38 (5 190 MHz)	5 146.85	V	X	PK	49.21	1.78	N/A	N/A	50.99	74.00	23.01
		5 146.48	V	X	AV	39.40	1.78	5.28	N/A	46.46	54.00	7.54
		10 380.21	V	X	PK	43.74	8.00	N/A	N/A	51.74	68.20	16.46
	46 (5 230 MHz)	10 460.24	V	X	PK	43.88	8.12	N/A	N/A	52.00	68.20	16.20
U-NII 2A	54 (5 270 MHz)	10 540.49	V	X	PK	43.97	8.32	N/A	N/A	52.29	68.20	15.91
	62 (5 310 MHz)	5 352.15	V	X	PK	48.50	3.33	N/A	N/A	51.83	74.00	22.17
		5 351.91	V	X	AV	38.72	3.33	5.28	N/A	47.33	54.00	6.67
		10 620.28	V	X	PK	44.25	8.76	N/A	N/A	53.01	74.00	20.99
		10 620.05	V	X	AV	36.11	8.76	5.28	N/A	50.15	54.00	3.85
U-NII 2C	102 (5 510 MHz)	5 458.24	V	X	PK	51.61	3.43	N/A	N/A	55.04	74.00	18.96
		5 458.12	V	X	AV	38.68	3.43	5.28	N/A	47.39	54.00	6.61
		5 469.60	V	X	PK	54.37	3.43	N/A	N/A	57.80	68.20	10.40
		11 020.04	V	X	PK	45.09	9.60	N/A	N/A	54.69	74.00	19.31
		11 020.21	V	X	AV	36.03	9.60	5.28	N/A	50.91	54.00	3.09
	118 (5 590 MHz)	11 180.31	V	X	PK	46.36	9.24	N/A	N/A	55.60	74.00	18.40
		11 180.21	V	X	AV	36.24	9.24	5.28	N/A	50.76	54.00	3.24
	142 (5 710 MHz)	11 420.47	V	X	PK	44.31	9.09	N/A	N/A	53.40	74.00	20.60
		11 420.19	V	X	AV	35.64	9.09	5.28	N/A	50.01	54.00	3.99
	U-NII 3	151 (5 755 MHz)	5 713.26	V	X	PK	55.64	3.29	N/A	N/A	58.93	68.20
5 723.06			V	X	PK	59.63	3.15	N/A	N/A	62.78	78.20	15.42
11 510.40			V	X	PK	44.62	9.05	N/A	N/A	53.67	74.00	20.33
11 510.16			V	X	AV	35.17	9.05	5.28	N/A	49.50	54.00	4.50
159 (5 795 MHz)		5 851.31	V	X	PK	48.73	3.69	N/A	N/A	52.42	78.20	25.78
		5 861.89	V	X	PK	48.87	3.72	N/A	N/A	52.59	68.20	15.61
		11 590.40	V	X	PK	43.88	9.16	N/A	N/A	53.04	74.00	20.96
		11 590.19	V	X	AV	34.28	9.16	5.28	N/A	48.72	54.00	5.28

Radiated Spurious Emissions data(9 kHz ~ 40 GHz) : TM4

Band	Tested Channel	Freq. (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
U-NII 1	42 (5 210 MHz)	5 147.34	V	X	PK	49.76	1.78	N/A	N/A	51.54	74.00	22.46
		5 147.32	V	X	AV	39.52	1.78	6.72	N/A	48.02	54.00	5.98
		10 420.28	V	X	PK	44.34	8.05	N/A	N/A	52.39	68.20	15.81
U-NII 2A	58 (5 290 MHz)	5 351.98	V	X	PK	48.23	3.33	N/A	N/A	51.56	74.00	22.44
		5 351.82	V	X	AV	37.93	3.33	6.72	N/A	47.98	54.00	6.02
		10 580.12	V	X	PK	44.44	8.52	N/A	N/A	52.96	68.20	15.24
U-NII 2C	106 (5 530 MHz)	5 454.32	V	X	PK	45.40	3.43	N/A	N/A	48.83	74.00	25.17
		5 454.76	V	X	AV	38.58	3.43	6.72	N/A	48.73	54.00	5.27
		5 469.18	V	X	PK	50.29	3.43	N/A	N/A	53.72	68.20	14.48
		11 060.42	V	X	PK	44.96	9.51	N/A	N/A	54.47	74.00	19.53
		11 060.26	V	X	AV	34.64	9.51	6.72	N/A	50.87	54.00	3.13
	122 (5 610 MHz)	11 220.21	V	X	PK	43.64	9.27	N/A	N/A	52.91	74.00	21.09
		11 220.14	V	X	AV	34.73	9.27	6.72	N/A	50.72	54.00	3.28
	138 (5 690 MHz)	11 380.22	V	X	PK	44.79	9.11	N/A	N/A	53.90	74.00	20.10
11 380.15		V	X	AV	35.06	9.11	6.72	N/A	50.89	54.00	3.11	
U-NII 3	155 (5 775 MHz)	5 709.87	V	X	PK	55.38	3.28	N/A	N/A	58.66	68.20	9.54
		5 724.29	V	X	PK	57.02	3.13	N/A	N/A	60.15	78.20	18.05
		5 850.67	V	X	PK	57.36	3.68	N/A	N/A	61.04	78.20	17.16
		5 863.10	V	X	PK	57.72	3.70	N/A	N/A	61.42	68.20	6.78
		11 549.73	V	X	PK	44.09	9.03	N/A	N/A	53.12	74.00	20.88
		11 550.14	V	X	AV	35.00	9.03	6.72	N/A	50.75	54.00	3.25

8.6 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 μ H/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 \times 3.5 m \times 3.5 m (L \times W \times H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) \times 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 & TM 1 & 5 180 MHz

Results of Conducted Emission

DTNC

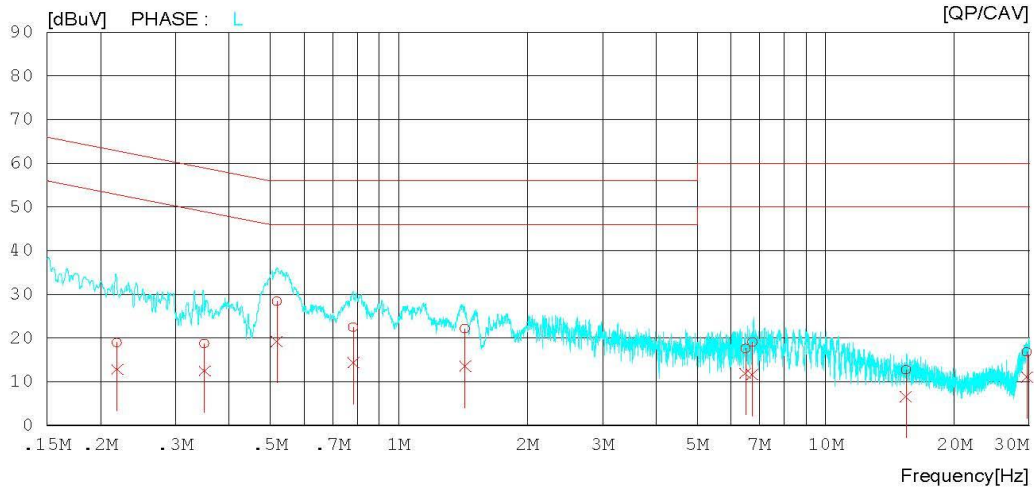
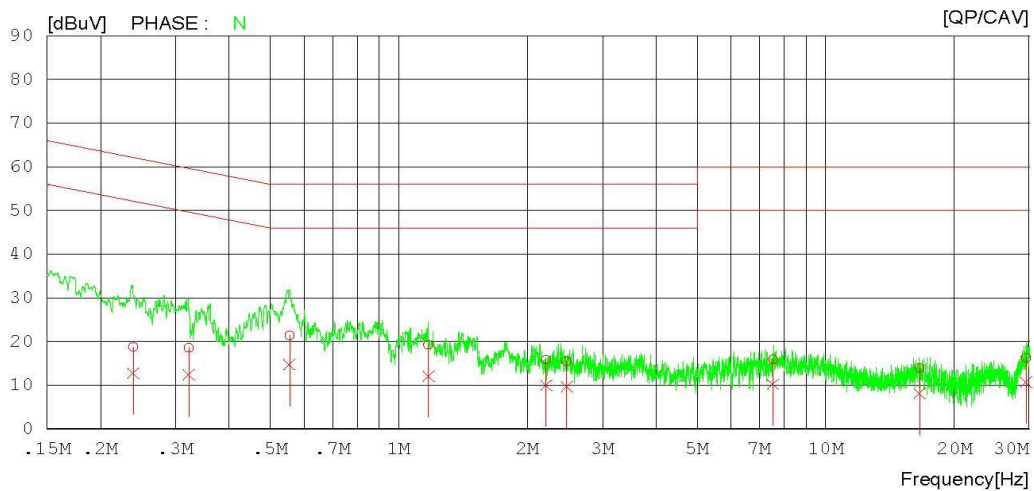
Date 2020-11-03

Order No.
Model No. HF550
Serial No.
Test Condition 5.1G WLAN

Reference No.
Power Supply 120 V, 60 Hz
Temp/Humi. 23 °C / 40 %
Operator InHee Bae

Memo

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



AC Line Conducted Emissions (Data List)

Test Mode: U-NII 1 & TM 1 & 5 180 MHz

Results of Conducted Emission

DTNC

Date 2020-11-03

Order No.		Reference No.	
Model No.	HF550	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 °C / 40 %
Test Condition	5.1G WLAN	Operator	InHee Bae

Memo

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

NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]			
1	0.23860	8.78	2.77	9.95	18.73	12.72	62.14	52.14	43.41	39.42	N
2	0.32222	8.58	2.33	9.96	18.54	12.29	59.65	49.65	41.11	37.36	N
3	0.55398	11.35	4.70	9.98	21.33	14.68	56.00	46.00	34.67	31.32	N
4	1.17317	9.18	2.06	9.99	19.17	12.05	56.00	46.00	36.83	33.95	N
5	2.21268	5.75	-0.02	10.02	15.77	10.00	56.00	46.00	40.23	36.00	N
6	2.47549	5.39	-0.37	10.05	15.44	9.68	56.00	46.00	40.56	36.32	N
7	7.52047	5.68	0.00	10.23	15.91	10.23	60.00	50.00	44.09	39.77	N
8	16.58712	3.50	-2.37	10.49	13.99	8.12	60.00	50.00	46.01	41.88	N
9	29.46155	5.62	0.12	10.66	16.28	10.78	60.00	50.00	43.72	39.22	N
10	0.21877	9.02	2.85	9.94	18.96	12.79	62.87	52.87	43.91	40.08	L
11	0.35039	8.75	2.50	9.96	18.71	12.46	58.95	48.95	40.24	36.49	L
12	0.51742	18.35	9.22	9.98	28.33	19.20	56.00	46.00	27.67	26.80	L
13	0.78238	12.45	4.36	9.98	22.43	14.34	56.00	46.00	33.57	31.66	L
14	1.42932	12.14	3.54	10.00	22.14	13.54	56.00	46.00	33.86	32.46	L
15	6.48712	7.40	1.70	10.18	17.58	11.88	60.00	50.00	42.42	38.12	L
16	6.73167	8.83	1.39	10.20	19.03	11.59	60.00	50.00	40.97	38.41	L
17	15.41917	2.22	-3.86	10.45	12.67	6.59	60.00	50.00	47.33	43.41	L
18	29.59654	6.20	0.39	10.60	16.80	10.99	60.00	50.00	43.20	39.01	L

AC Line Conducted Emissions (Graph)

Test Mode: U-NII 2A & TM 1 & 5 300 MHz

Results of Conducted Emission

DTNC

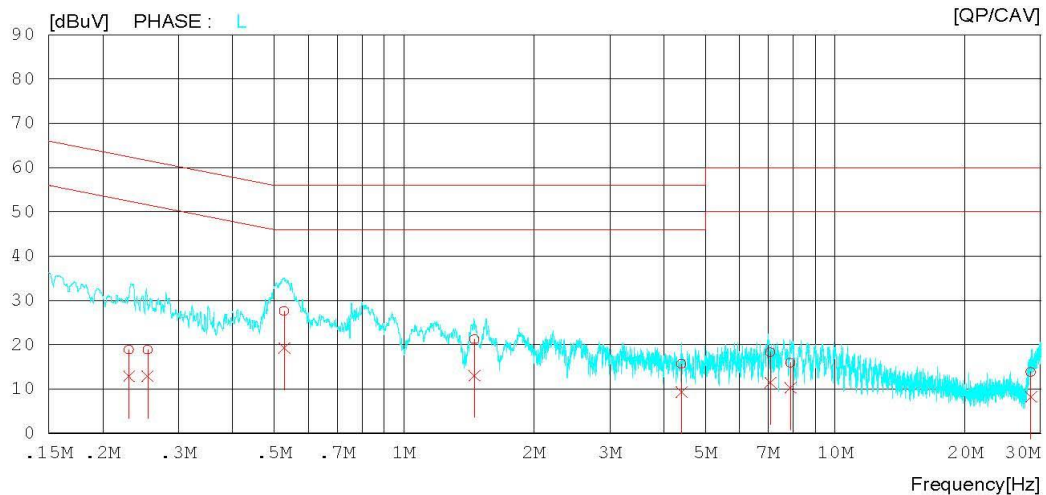
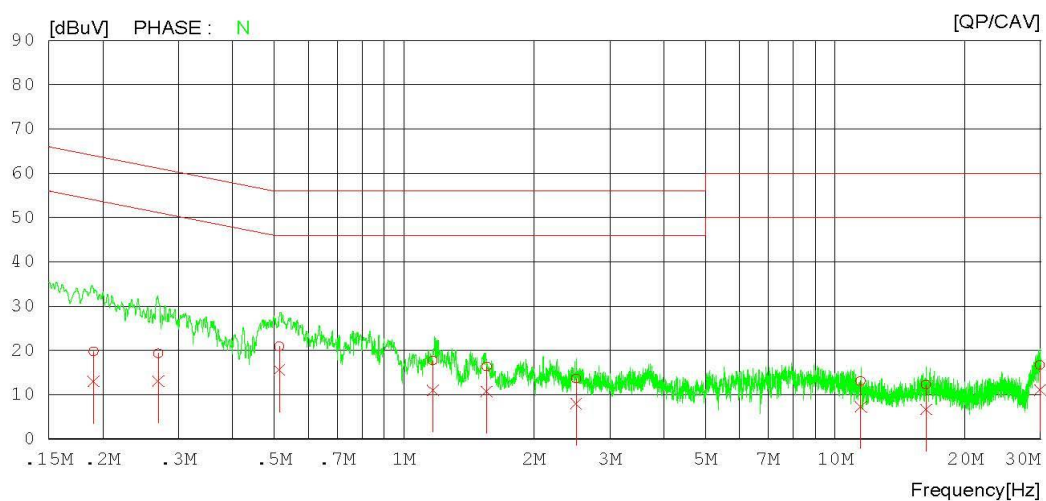
Date 2020-11-03

Order No.
Model No. HF550
Serial No.
Test Condition 5.3G WLAN

Reference No.
Power Supply 120 V, 60 Hz
Temp/Humi. 23 'C / 40 %
Operator InHee Bae

Memo

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



AC Line Conducted Emissions (Data List)

Test Mode: U-NII 2A & TM 1 & 5 300 MHz

Results of Conducted Emission

DTNC

Date 2020-11-03

Order No.		Reference No.	
Model No.	HF550	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 'C / 40 %
Test Condition	5.3G WLAN	Operator	InHee Bae

Memo

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

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.19044	9.86	3.08	9.94	19.80	13.02	64.02	54.02	44.22	41.00	N
2	0.26921	9.36	3.17	9.95	19.31	13.12	61.14	51.14	41.83	38.02	N
3	0.51378	10.96	5.63	9.98	20.94	15.61	56.00	46.00	35.06	30.39	N
4	1.16735	7.78	1.02	9.99	17.77	11.01	56.00	46.00	38.23	34.99	N
5	1.55419	6.32	0.74	10.00	16.32	10.74	56.00	46.00	39.68	35.26	N
6	2.50768	3.57	-2.06	10.06	13.63	8.00	56.00	46.00	42.37	38.00	N
7	11.46214	2.67	-3.05	10.36	13.03	7.31	60.00	50.00	46.97	42.69	N
8	16.24699	1.85	-3.79	10.48	12.33	6.69	60.00	50.00	47.67	43.31	N
9	29.84515	6.07	0.40	10.66	16.73	11.06	60.00	50.00	43.27	38.94	N
10	0.23024	8.90	2.92	9.93	18.83	12.85	62.44	52.44	43.61	39.59	L
11	0.25422	8.90	2.93	9.94	18.84	12.87	61.62	51.62	42.78	38.75	L
12	0.52760	17.56	9.23	9.98	27.54	19.21	56.00	46.00	28.46	26.79	L
13	1.45817	11.22	3.00	10.00	21.22	13.00	56.00	46.00	34.78	33.00	L
14	4.40590	5.54	-0.85	10.13	15.67	9.28	56.00	46.00	40.33	36.72	L
15	7.07955	8.09	1.15	10.20	18.29	11.35	60.00	50.00	41.71	38.65	L
16	7.88163	5.65	0.02	10.23	15.88	10.25	60.00	50.00	44.12	39.75	L
17	28.42973	3.18	-2.44	10.59	13.77	8.15	60.00	50.00	46.23	41.85	L

AC Line Conducted Emissions (Graph)

Test Mode: U-NII 2C & TM 1 & 5 600 MHz

Results of Conducted Emission

DTNC

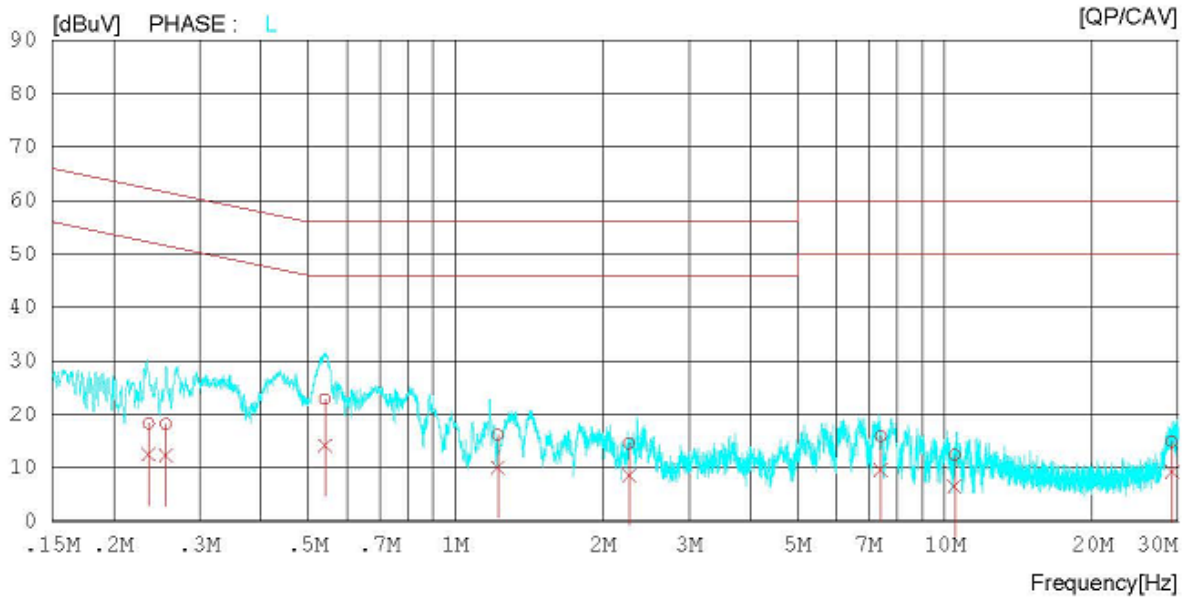
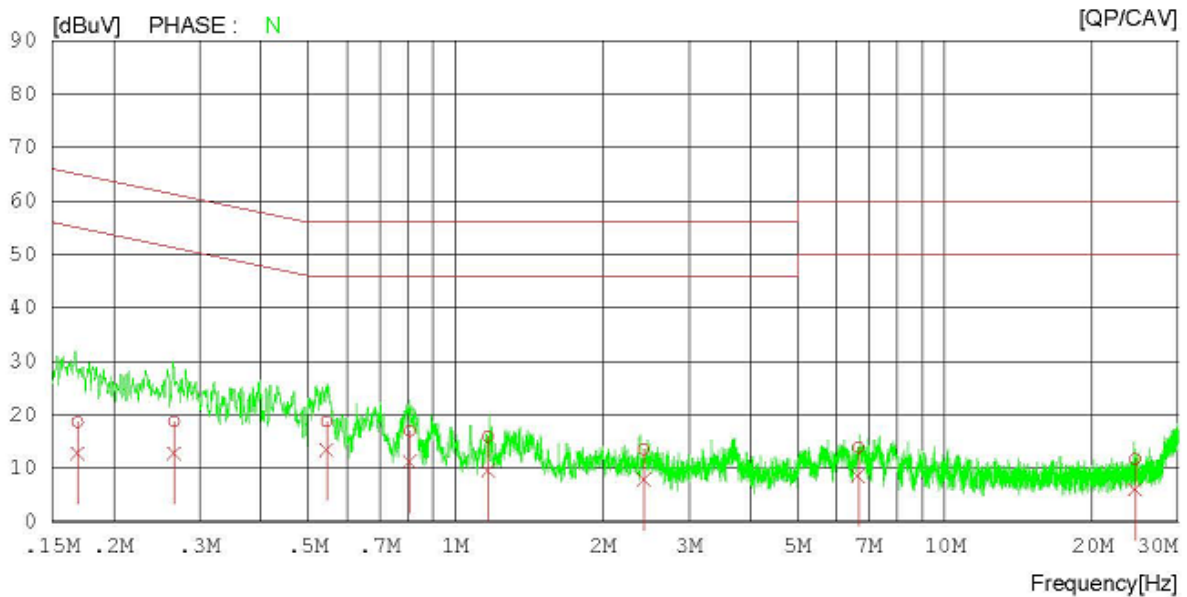
Date 2020-11-03

Order No.
Model No. HF550
Serial No.
Test Condition 5.5G WLAN

Reference No.
Power Supply 120 V, 60 Hz
Temp/Humi. 23 °C / 40 %
Operator InHee Bae

Memo

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



AC Line Conducted Emissions (Data List)

Test Mode: U-NII 2C & TM 1 & 5 600 MHz

Results of Conducted Emission

DTNC

Date 2020-11-03

Order No.		Reference No.	
Model No.	HF550	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 'C / 40 %
Test Condition	5.5G WLAN	Operator	InHee Bae

Memo

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

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.16905	8.70	2.81	9.95	18.65	12.76	65.01	55.01	46.36	42.25	N
2	0.26605	8.75	2.84	9.95	18.70	12.79	61.24	51.24	42.54	38.45	N
3	0.54489	8.79	3.49	9.98	18.77	13.47	56.00	46.00	37.23	32.53	N
4	0.80577	6.98	1.20	9.98	16.96	11.18	56.00	46.00	39.04	34.82	N
5	1.16463	5.95	-0.44	9.98	15.93	9.54	56.00	46.00	40.07	36.46	N
6	2.42358	3.44	-2.14	10.05	13.49	7.91	56.00	46.00	42.51	38.09	N
7	6.65377	3.68	-1.57	10.20	13.88	8.63	60.00	50.00	46.12	41.37	N
8	24.45800	1.14	-4.58	10.60	11.74	6.02	60.00	50.00	48.26	43.98	N
9	0.23588	8.36	2.55	9.93	18.29	12.48	62.24	52.24	43.95	39.76	L
10	0.25570	8.18	2.34	9.94	18.12	12.28	61.57	51.57	43.45	39.29	L
11	0.54124	12.83	4.15	9.98	22.81	14.13	56.00	46.00	33.19	31.87	L
12	1.22080	6.15	-0.02	9.99	16.14	9.97	56.00	46.00	39.86	36.03	L
13	2.26346	4.49	-1.47	10.04	14.53	8.57	56.00	46.00	41.47	37.43	L
14	7.39573	5.64	-0.68	10.22	15.86	9.54	60.00	50.00	44.14	40.46	L
15	10.47378	2.00	-3.81	10.32	12.32	6.51	60.00	50.00	47.68	43.49	L
16	29.09162	4.28	-1.34	10.59	14.87	9.25	60.00	50.00	45.13	40.75	L

AC Line Conducted Emissions (Graph)

Test Mode: U-NII 3 & TM 1 & 5 785 MHz

Results of Conducted Emission

DTNC

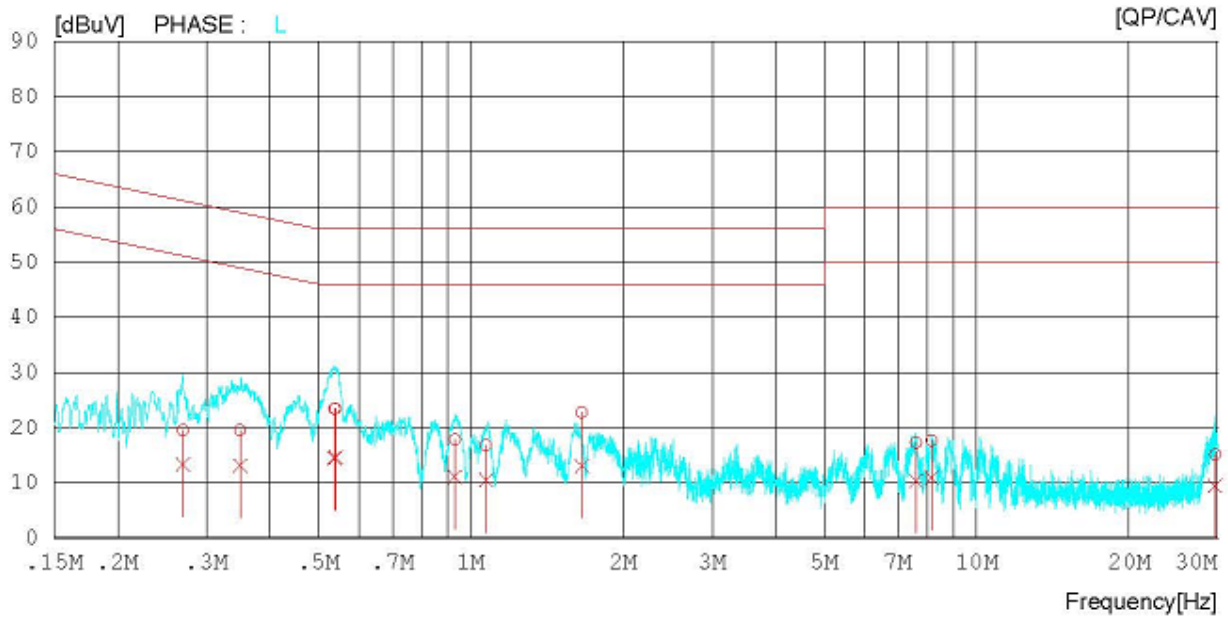
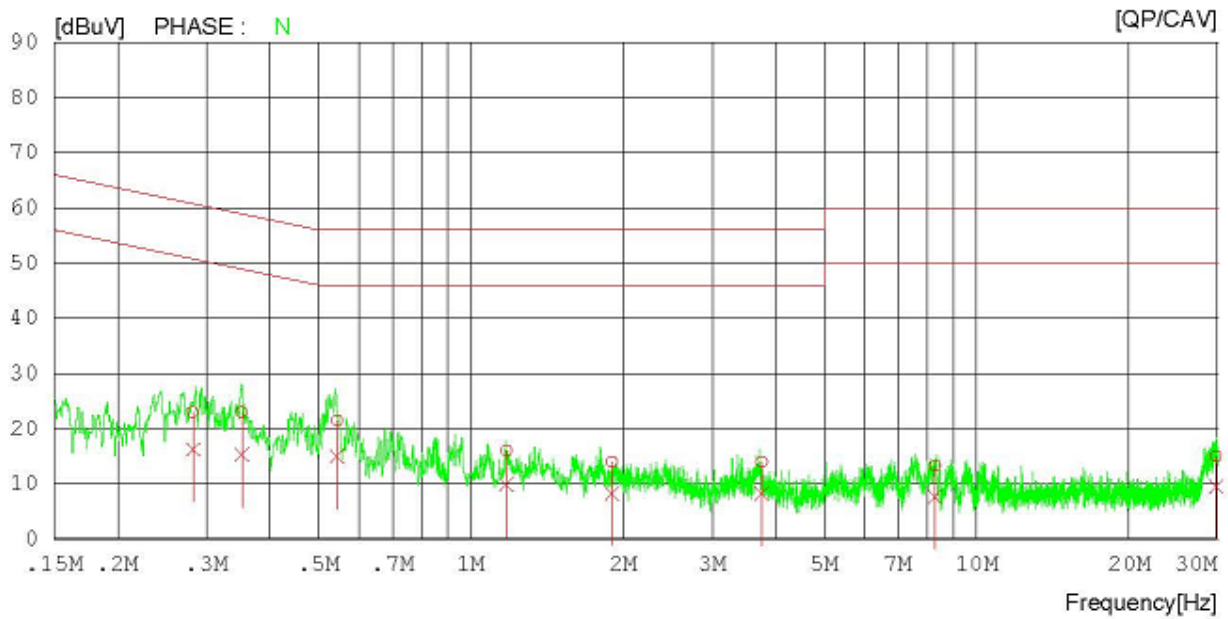
Date 2020-11-03

Order No.
Model No. HF550
Serial No.
Test Condition 5.7G WLAN

Reference No.
Power Supply 120 V, 60 Hz
Temp/Humi. 23 'C / 40 %
Operator InHee Bae

Memo

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



AC Line Conducted Emissions (Data List)

Test Mode: U-NII 3 & TM 1 & 5 785 MHz

Results of Conducted Emission

DTNC

Date 2020-11-03

Order No.		Reference No.	
Model No.	HF550	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 'C / 40 %
Test Condition	5.7G WLAN	Operator	InHee Bae

Memo

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

NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.28229	12.89	6.23	10.01	22.90	16.24	60.75	50.75	37.85	34.51	N
2	0.35270	12.94	5.24	10.02	22.96	15.26	58.90	48.90	35.94	33.64	N
3	0.54366	11.41	4.93	10.04	21.45	14.97	56.00	46.00	34.55	31.03	N
4	1.17495	6.01	-0.25	10.04	16.05	9.79	56.00	46.00	39.95	36.21	N
5	1.90058	3.90	-1.77	10.06	13.96	8.29	56.00	46.00	42.04	37.71	N
6	3.75682	3.86	-1.86	10.11	13.97	8.25	56.00	46.00	42.03	37.75	N
7	8.27067	2.99	-2.65	10.30	13.29	7.65	60.00	50.00	46.71	42.35	N
8	29.74804	4.32	-1.26	10.72	15.04	9.46	60.00	50.00	44.96	40.54	N
9	0.53987	13.35	4.48	10.04	23.39	14.52	56.00	46.00	32.61	31.48	L
10	0.26971	9.44	3.27	10.01	19.45	13.28	61.13	51.13	41.68	37.85	L
11	0.34951	9.45	3.09	10.02	19.47	13.11	58.97	48.97	39.50	35.86	L
12	0.53760	13.32	4.38	10.04	23.36	14.42	56.00	46.00	32.64	31.58	L
13	0.92936	7.74	0.95	10.03	17.77	10.98	56.00	46.00	38.23	35.02	L
14	1.07100	6.78	0.43	10.03	16.81	10.46	56.00	46.00	39.19	35.54	L
15	1.65817	12.61	2.98	10.05	22.66	13.03	56.00	46.00	33.34	32.97	L
16	7.59121	7.05	0.10	10.20	17.25	10.30	60.00	50.00	42.75	39.70	L
17	8.14405	7.34	0.66	10.24	17.58	10.90	60.00	50.00	42.42	39.10	L
18	29.64101	4.47	-1.14	10.62	15.09	9.48	60.00	50.00	44.91	40.52	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	MY50410357
Spectrum Analyzer	Agilent Technologies	N9020A	19/12/16	20/12/16	MY48011700
Spectrum Analyzer	Agilent Technologies	N9020A	19/12/16	20/12/16	MY48010133
Spectrum Analyzer	Agilent Technologies	N9030A	19/12/16	20/12/16	MY53310140
DC Power Supply	Agilent Technologies	66332A	20/06/24	21/06/24	MY43000211
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	20/07/01	21/07/01	N/A
HYGROMETER	TESTO	608-H1	20/01/21	21/01/21	34862883
Loop Antenna	ETS-Lindgren	6502	19/09/18	21/09/18	00226186
BILOG ANTENNA	Schwarzbeck	VULB 9160	19/04/23	21/04/23	9160-3362
Horn Antenna	ETS-Lindgren	3115	20/01/30	21/01/30	6419
Horn Antenna	Schwarzbeck	BBHA 9120C	19/12/04	20/12/04	9120C-561
Horn Antenna	A.H.Systems Inc.	SAS-574	20/06/24	21/06/24	155
PreAmplifier	tsj	MLA-0118-B01-40	19/12/16	20/12/16	1852267
PreAmplifier	tsj	MLA-1840-J02-45	20/06/24	21/06/24	16966-10728
PreAmplifier	H.P	8447D	19/12/16	20/12/16	2944A07774
High Pass Filter	Wainwright Instruments	WHKX12-935-1000-15000-40SS	20/06/24	21/06/24	8
High Pass Filter	Wainwright Instruments	WHKX10-2838-3300-18000-60SS	20/06/24	21/06/24	1
High Pass Filter	Wainwright Instruments	WHNX8.0/26.5-6SS	20/06/24	21/06/24	3
Attenuator	Hefei Shunze	SS5T2.92-10-40	20/06/24	21/06/24	16012202
Attenuator	SRTechnology	F01-B0606-01	20/06/24	21/06/24	13092403
Attenuator	Aeroflex/Weinschel	56-3	20/06/24	21/06/24	Y2370
Attenuator	SMAJK	SMAJK-2-3	20/06/24	21/06/24	2
Attenuator	SMAJK	SMAJK-50-10	20/06/24	21/06/24	15081901
Power Meter & Wide Bandwidth Sensor	Anritsu	ML2488B MA2491A	20/01/02	21/01/02	0910025 0845333
EMI Test Receiver	ROHDE&SCHWARZ	ESR	19/12/17	20/12/17	101767
PULSE LIMITER	Rohde Schwarz	ESH3-Z2	20/08/25	21/08/25	101333
LISN	SCHWARZBECK	NSLK 8128 RC	19/11/04	20/11/04	8128 RC-387
Cable	Junkosha	MWX241	20/01/13	21/01/13	G-04
Cable	Junkosha	MWX241	20/01/13	21/01/13	G-07
Cable	DT&C	Cable	20/01/13	21/01/13	G-13
Cable	DT&C	Cable	20/01/13	21/01/13	G-14
Cable	HUBER+SUHNER	SUCOFLEX 104	20/01/13	21/01/13	G-15
Cable	Radiall	TESTPRO3	20/01/16	21/01/16	M-01
Cable	Junkosha	MWX315	20/01/16	21/01/16	M-05
Cable	Junkosha	MWX221	20/01/16	21/01/16	M-06
Cable	Radiall	TESTPRO3	20/01/16	21/01/16	RF-82
Test Software	tsj	Raidated Emission Measurement	NA	NA	Version 2.00.0177
Test Software	tsj	Noise Terminal Measurement	NA	NA	Version 2.00.0170

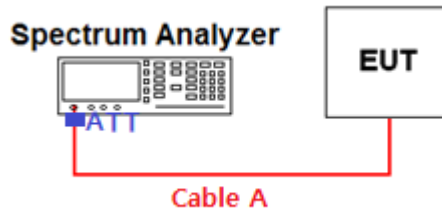
Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017

Note2: The cable is not a regular calibration item, so it has been calibrated by DT & C itself.

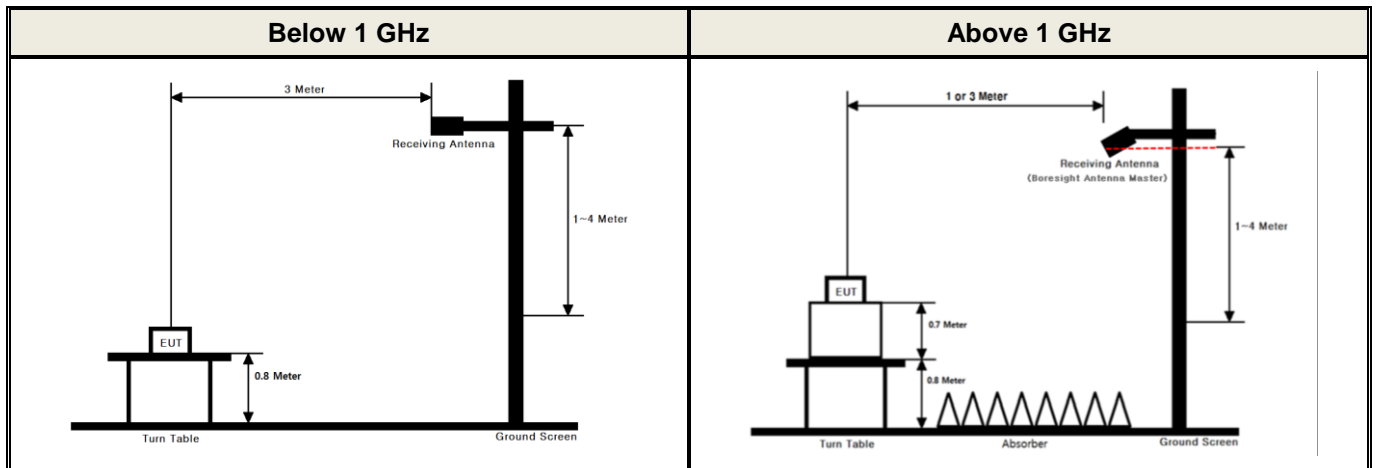
APPENDIX I

Test set up Diagram

Conducted Measurement



Radiated Measurement



APPENDIX II

Duty Cycle Information

■ Test Procedure

Duty Cycle [X = On Time / (On + Off time)] is measured using Measurement Procedure of **KDB789033 D02v02r01**

1. Set the center frequency of the spectrum analyzer to the center frequency of the transmission.
2. Set RBW \geq EBW if possible; otherwise, set RBW to the largest available value.
3. Set VBW \geq RBW. Set detector = peak.
4. Note : The zero-span measurement method shall not be used unless both **RBW and VBW are $> 50/T$** , where T is defined in section II.B.1.a), and **the number of sweep points across duration T exceeds 100**. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

T : The minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

(T = On time of the above table since the EUT operates with above fixed Duty Cycle and it is the minimum On time)

■ Test Results:

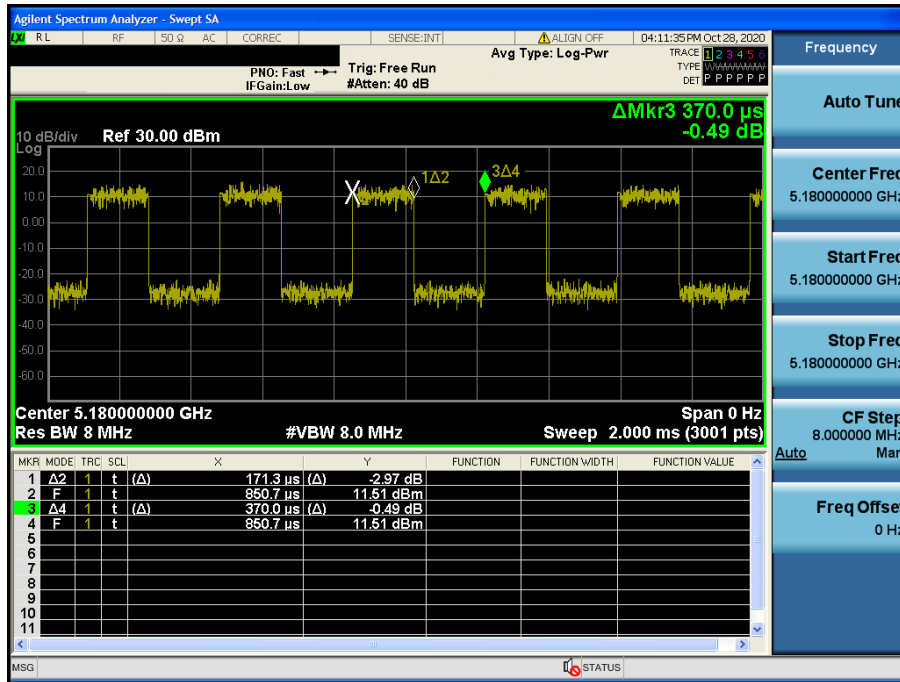
Duty cycle

Test Mode	Data Rate	Tested Frequency [MHz]	Maximum Achievable Duty Cycle (x) = On / (On+Off)			Duty Cycle Correction Factor [dB]	50/T [kHz]
			On Time [ms]	(On+Off) Time [ms]	x		
TM 1	54 Mbps	5 180	0.171	0.370	0.4630	3.34	291.89
TM 2	MCS 8	5 180	0.119	0.319	0.3730	4.28	420.17
TM 3	MCS 7	5 190	0.084	0.283	0.2965	5.28	595.24
TM 4	MCS 9	5 210	0.055	0.257	0.2126	6.72	914.58

Single Transmit

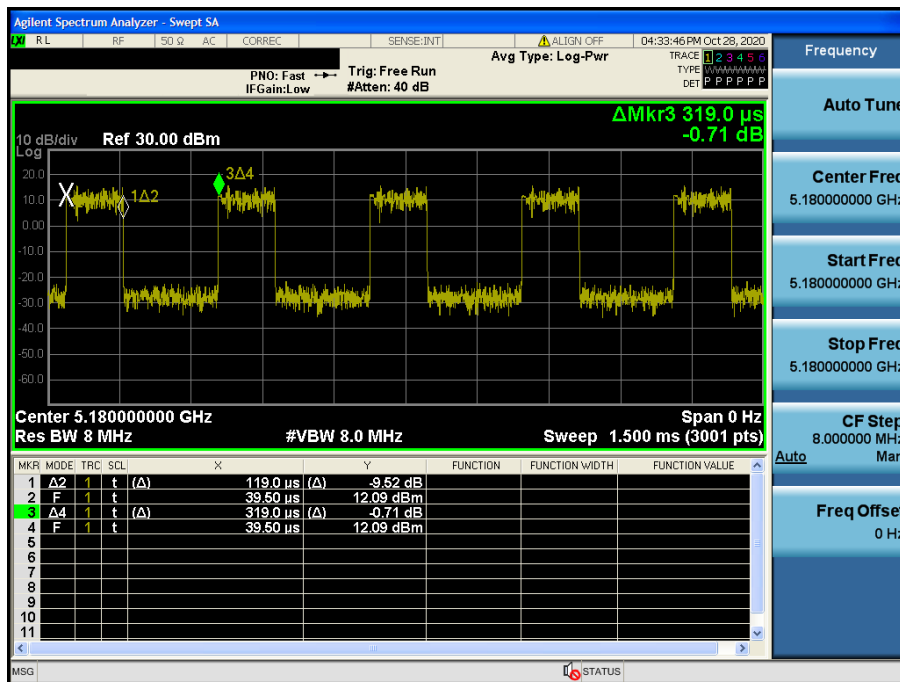
Duty Cycle

Test Mode: TM 1 & Ch.36



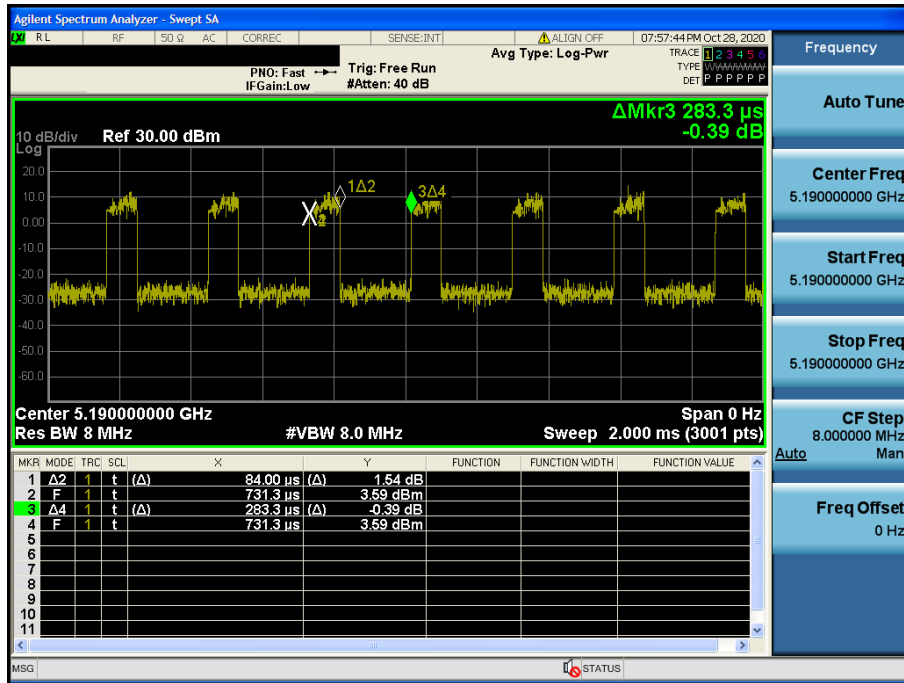
Duty Cycle

Test Mode: TM 2 & Ch.36



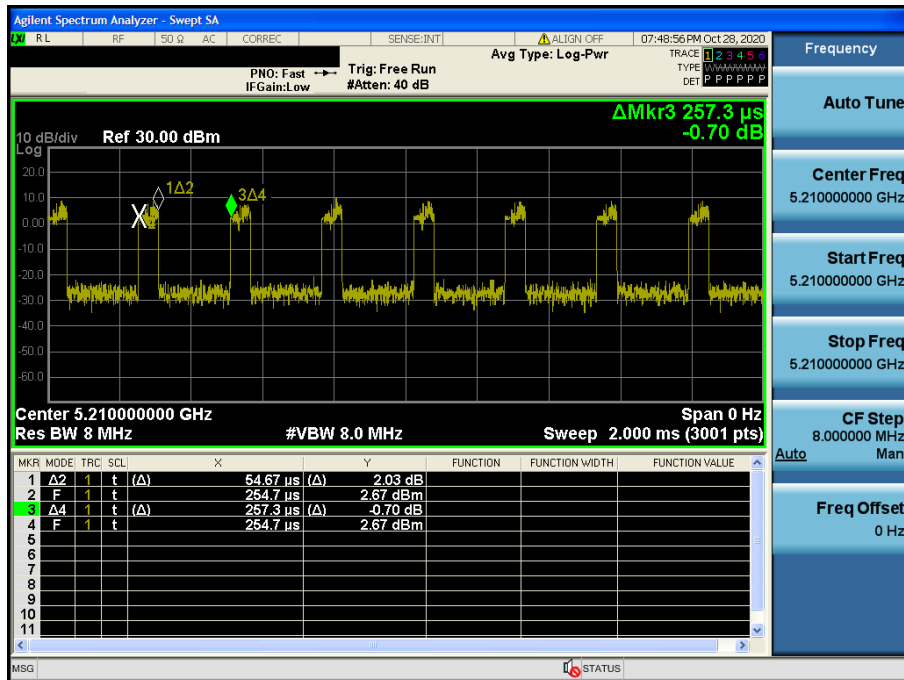
Duty Cycle

Test Mode: TM 3 & Ch.38



Duty Cycle

Test Mode: TM 4 & Ch.42

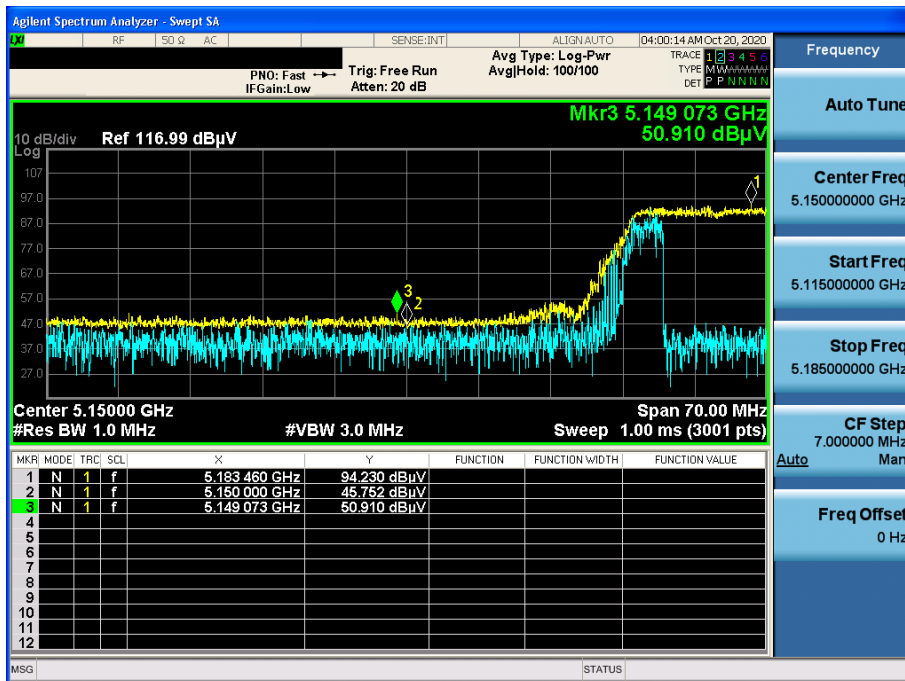


APPENDIX III

Unwanted Emissions (Radiated) Test Plot

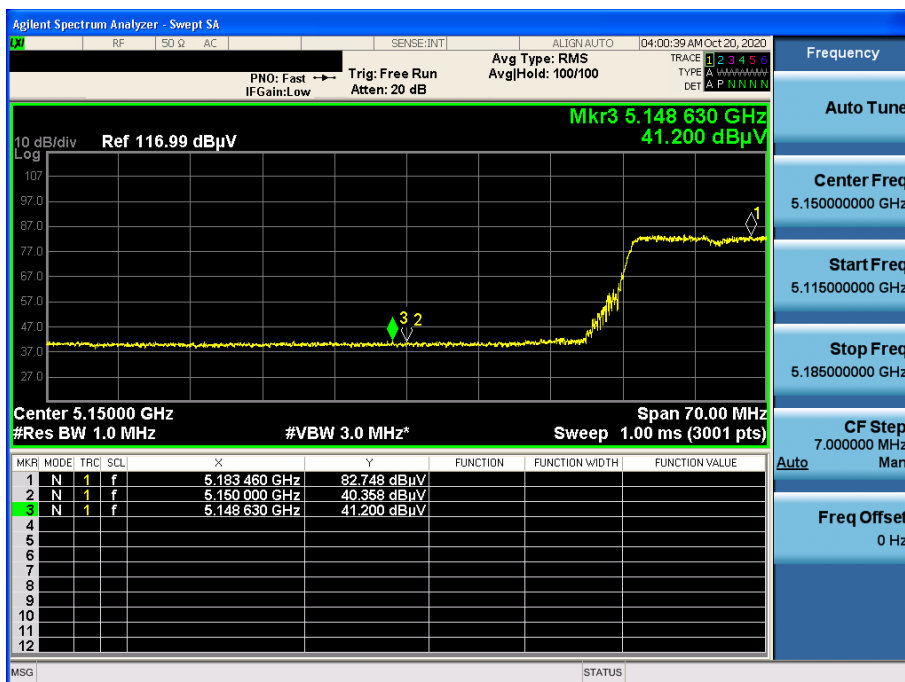
TM 1 & U-N11 1 & Ch.36 & X axis & Ver

Detector Mode : PK



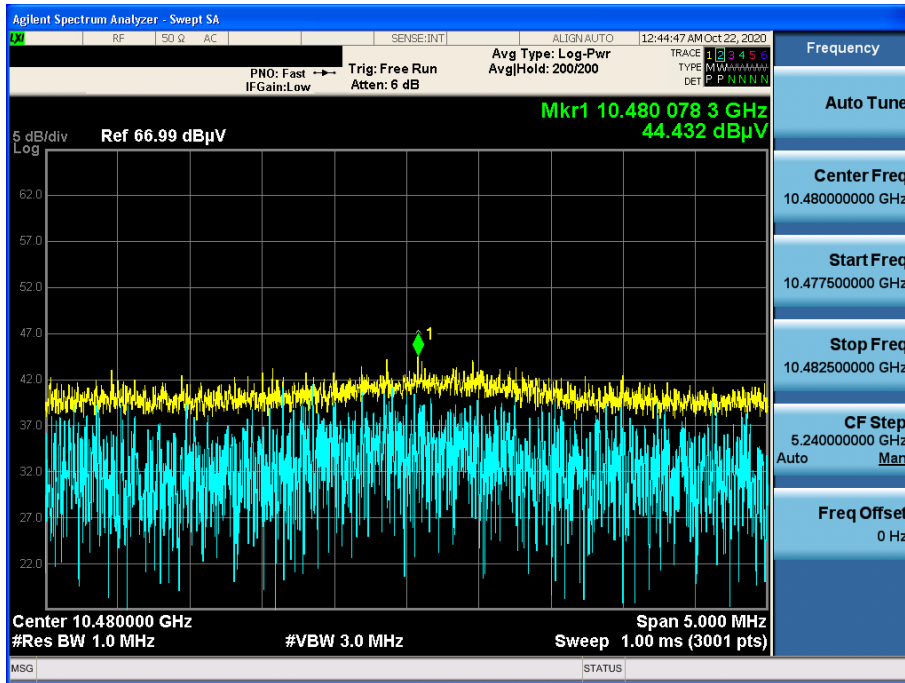
TM 1 & U-N11 1 & Ch.36 & X axis & Ver

Detector Mode : AV



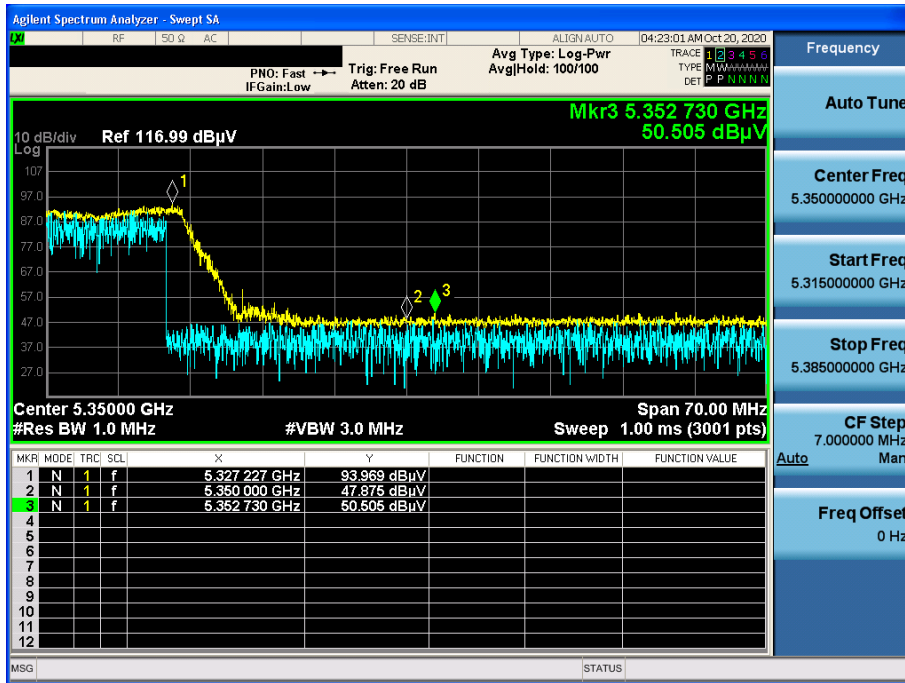
TM 1 & U-NII 1 & Ch.36 & X axis & Ver

Detector Mode : PK



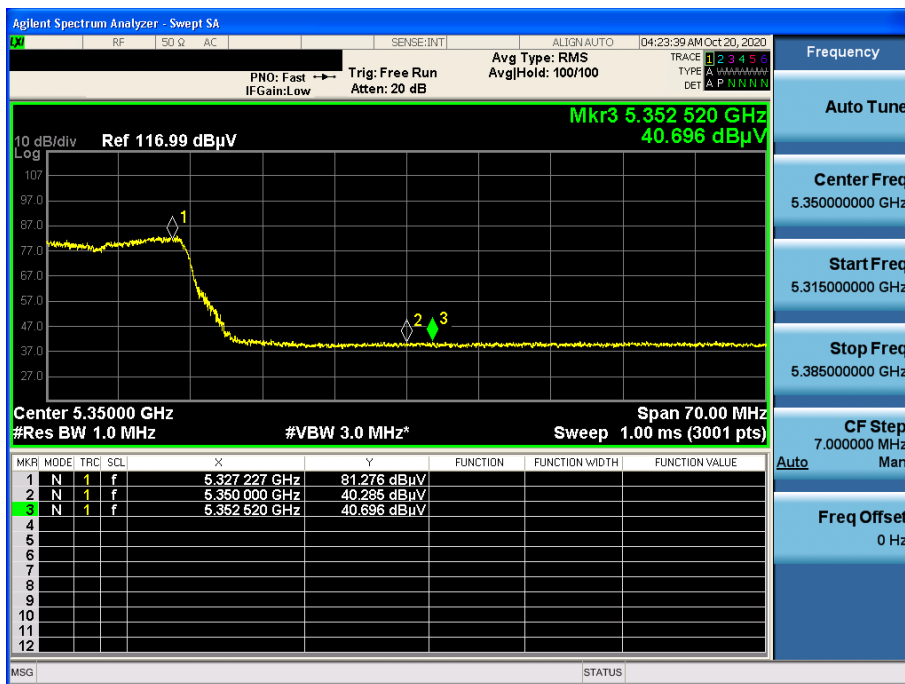
TM 1 & U-NII 2A & Ch.64 & X axis & Ver

Detector Mode : PK



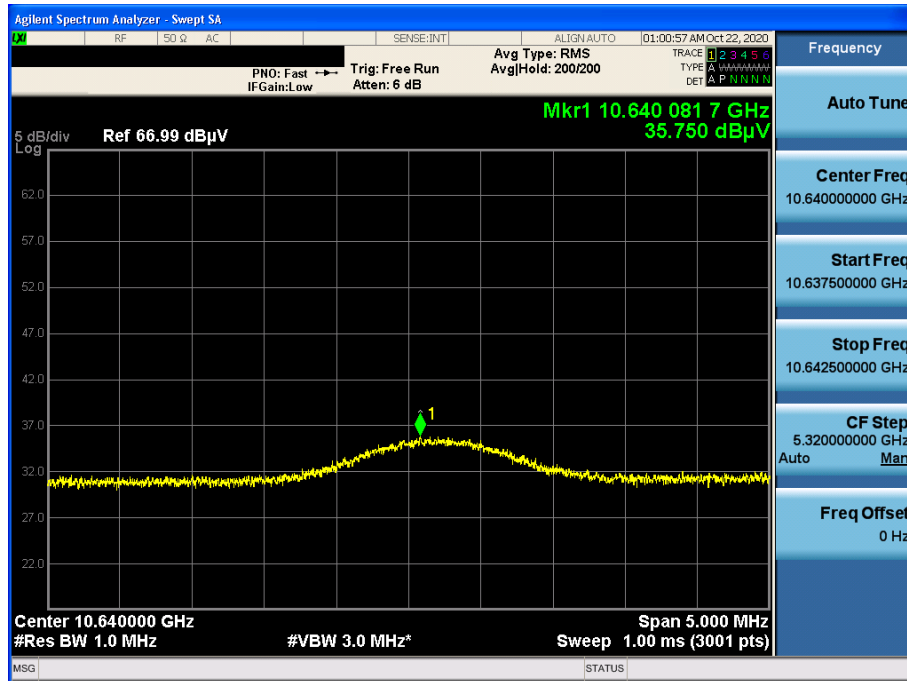
TM 1 & U-NII 2A & Ch.64 & X axis & Ver

Detector Mode : AV



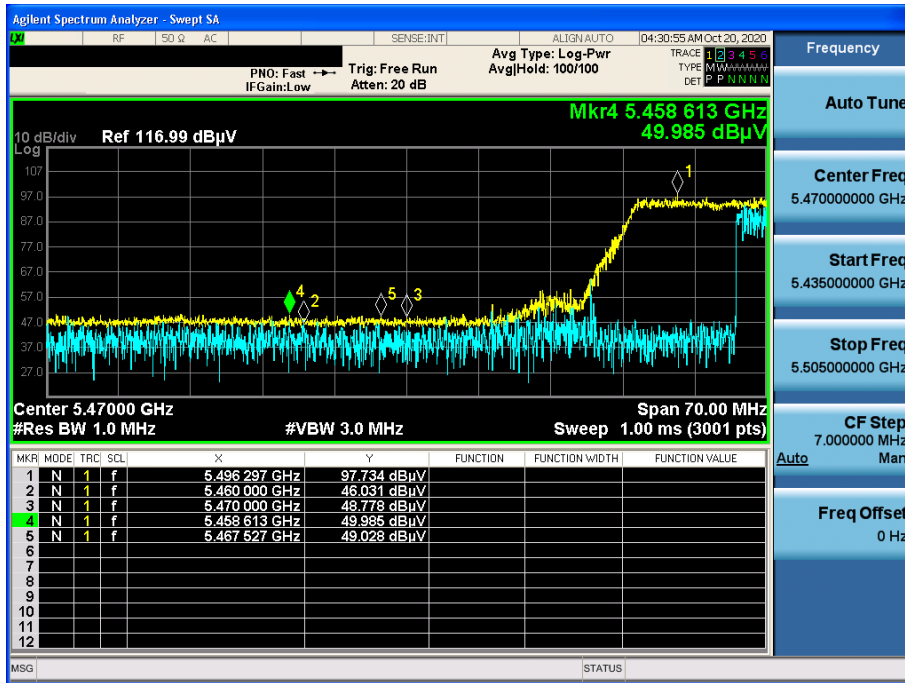
TM 1 & U-NII 2A & Ch.64 & X axis & Ver

Detector Mode : AV



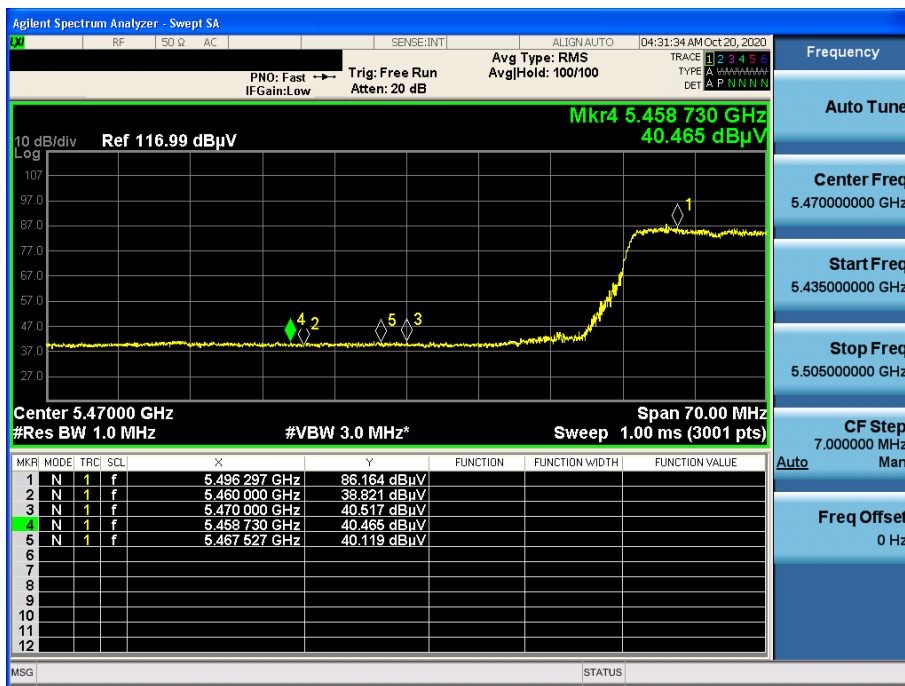
TM 1 & U-NII 2C & Ch.100 & X axis & Ver

Detector Mode : PK



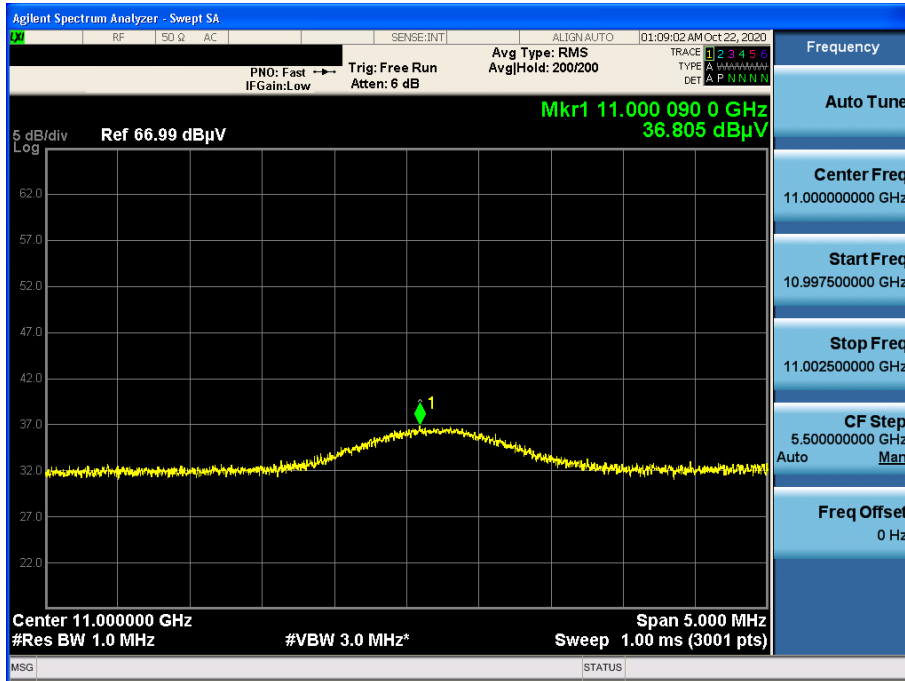
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Detector Mode : AV



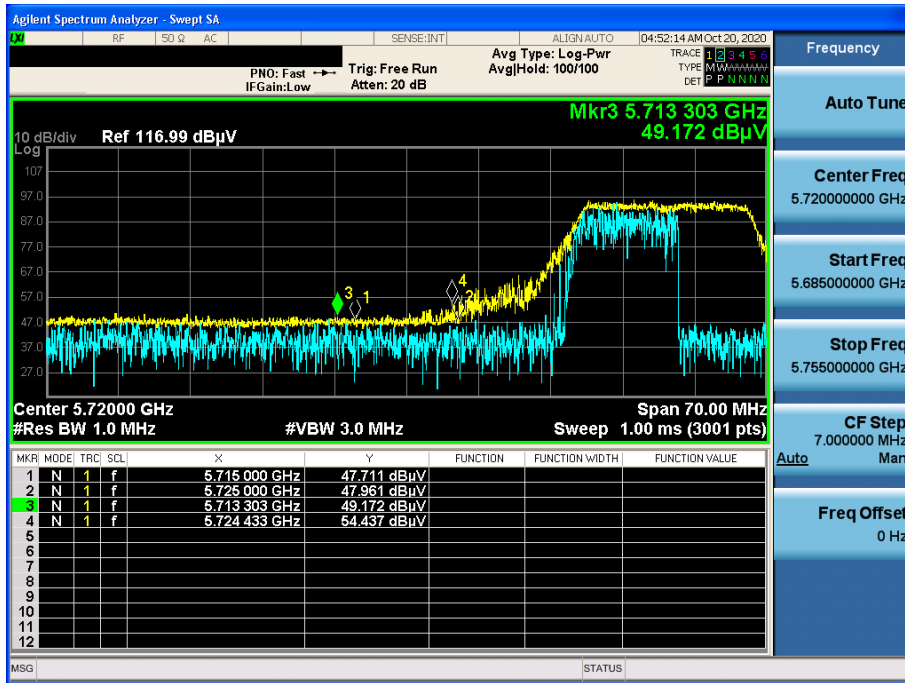
TM 1 & U-NII 2C & Ch.100 & X axis & Ver

Detector Mode : AV



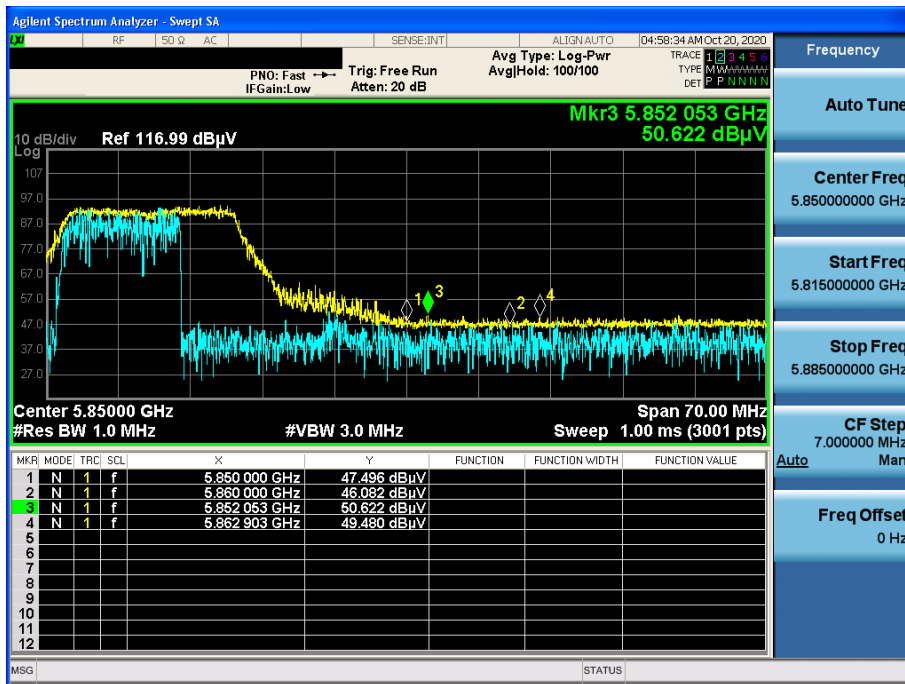
TM 1 & U-NII 3 & Ch.149 & X axis & Ver

Detector Mode : PK



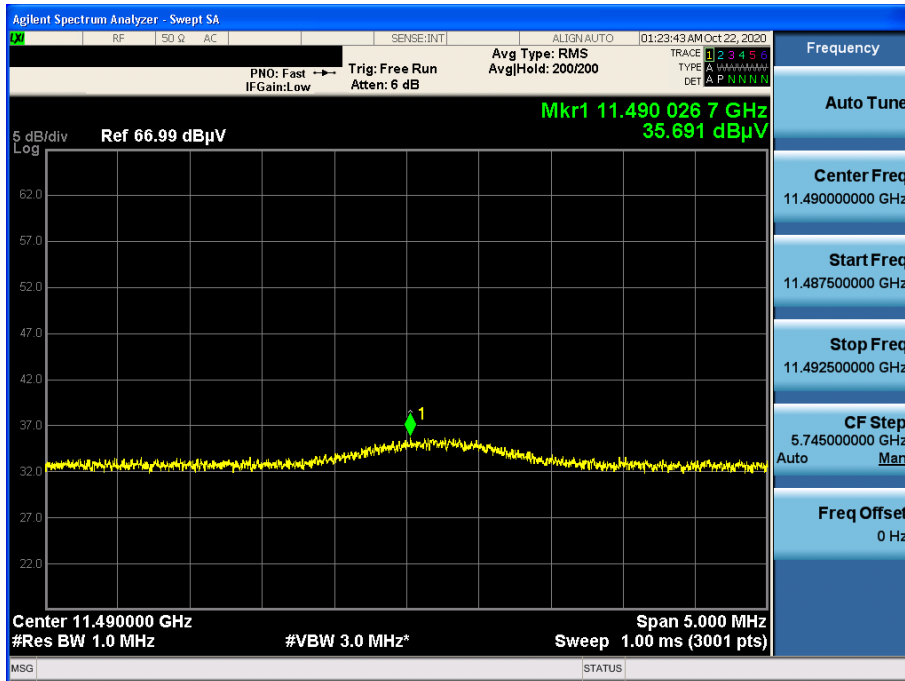
TM 1 & U-NII 3 & Ch.165 & X axis & Ver

Detector Mode : PK



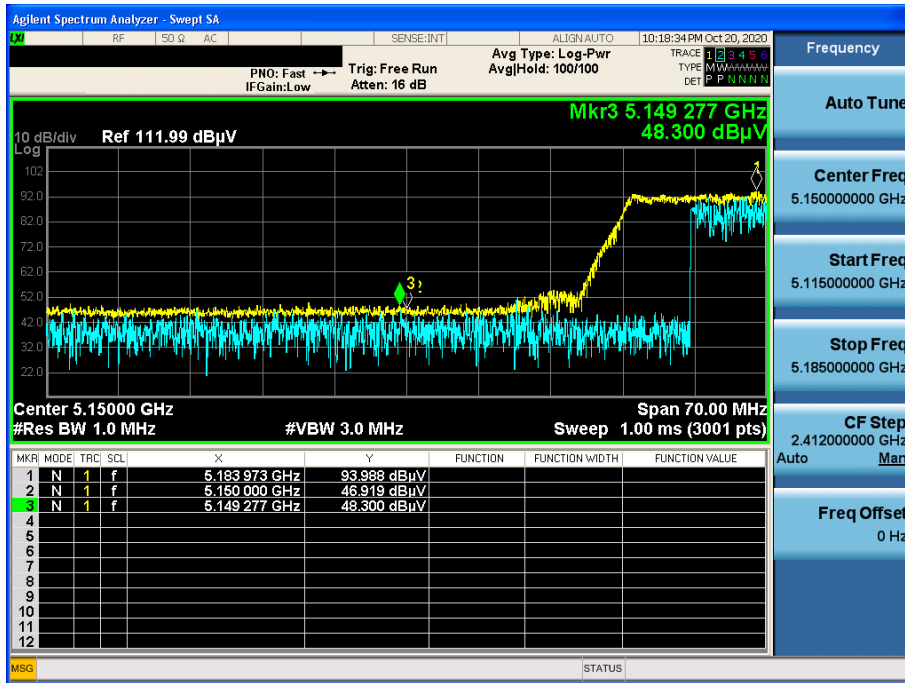
TM 1 & U-NII 3 & Ch.149 & X axis & Ver

Detector Mode : AV



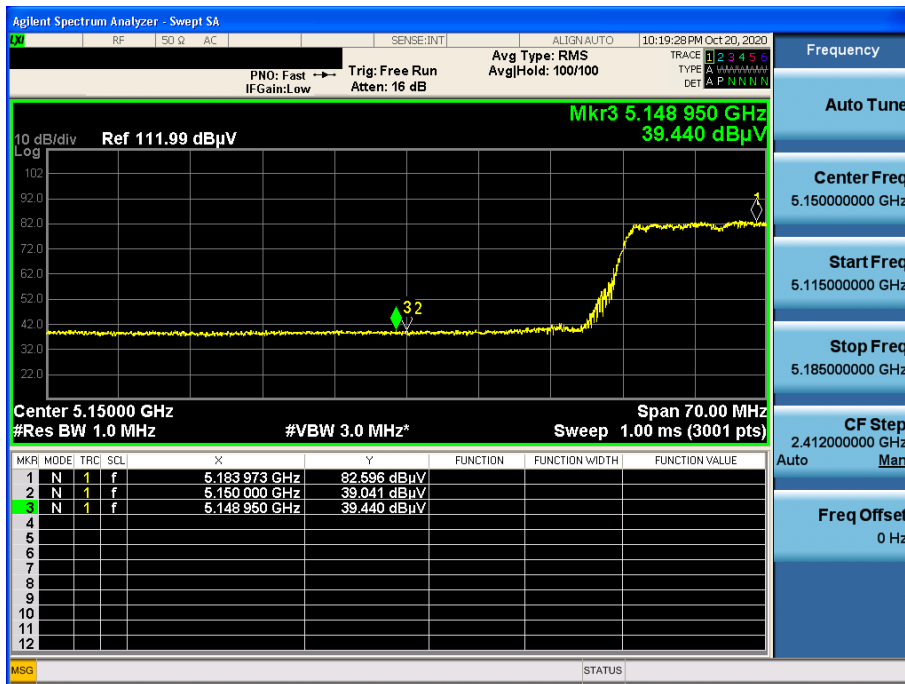
TM 2 & U-NII 1 & Ch.36 & X axis & Ver

Detector Mode : PK



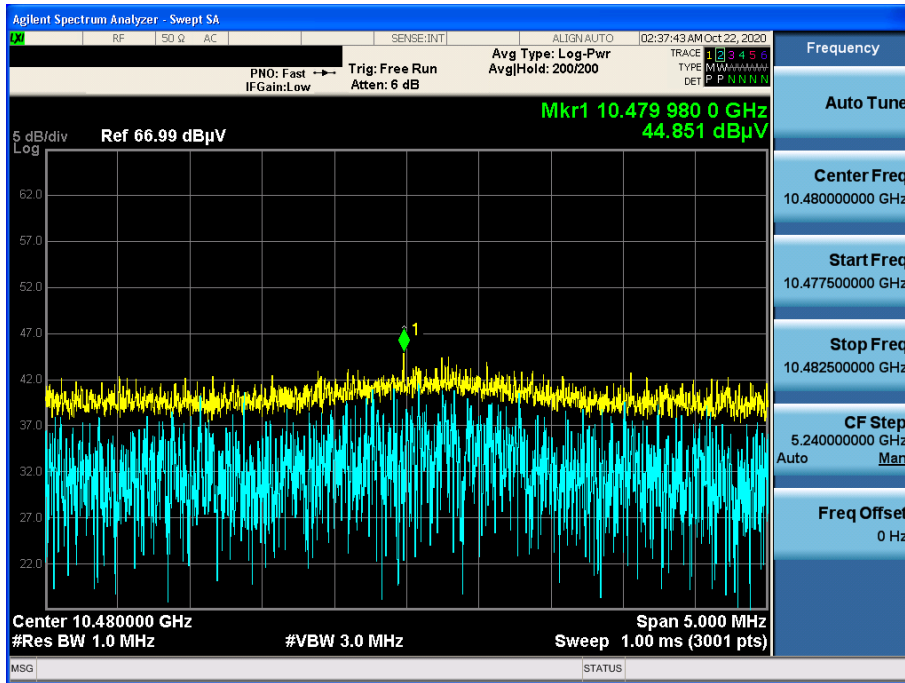
TM 2 & U-NII 1 & Ch.36 & X axis & Ver

Detector Mode : AV



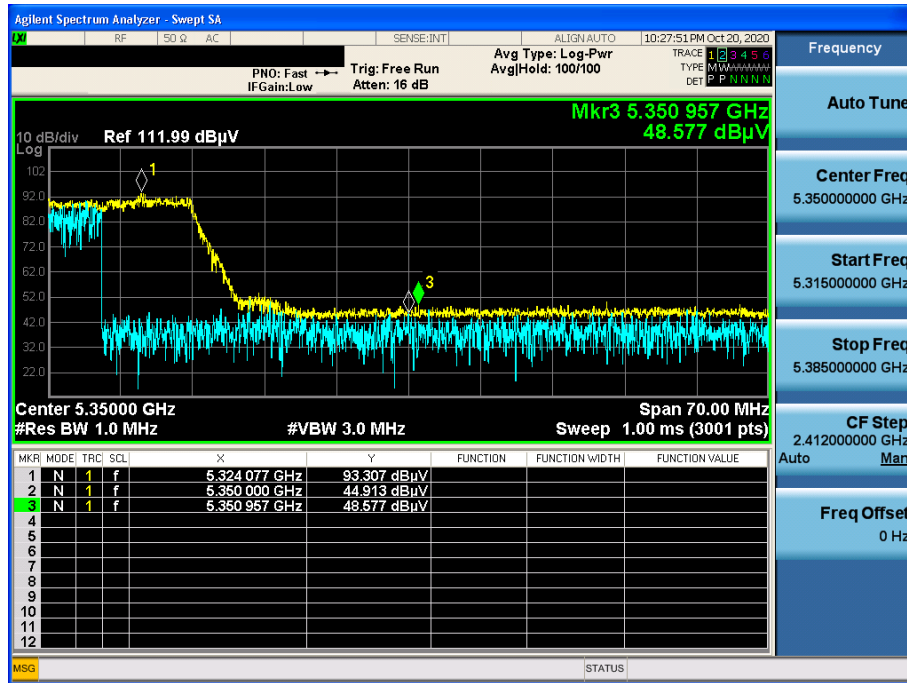
TM 2 & U-NII 1 & Ch.48 & X axis & Ver

Detector Mode : PK



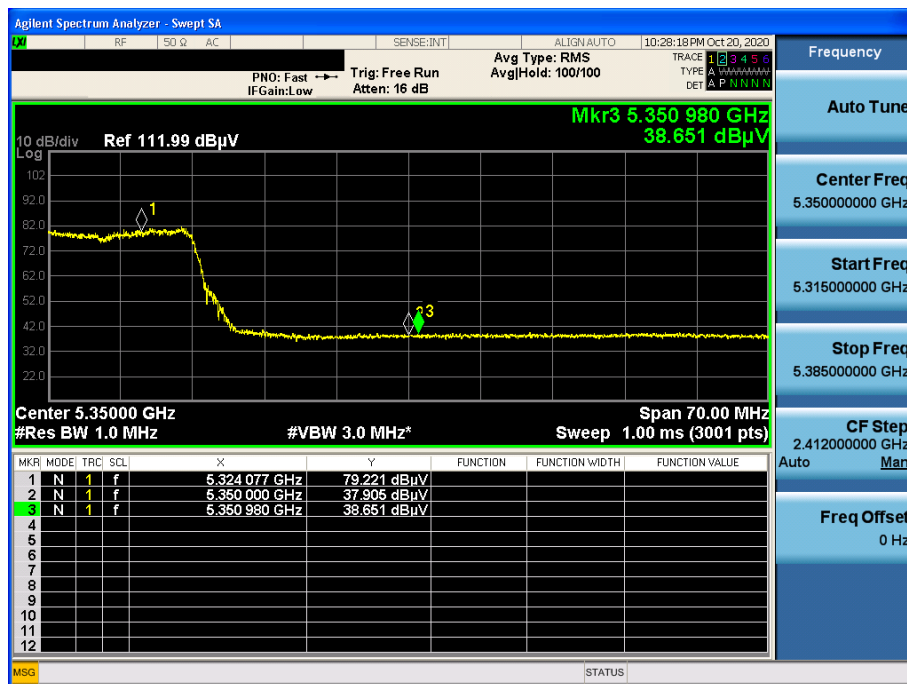
TM 2 & U-NII 2A & Ch.64 & X axis & Ver

Detector Mode : PK



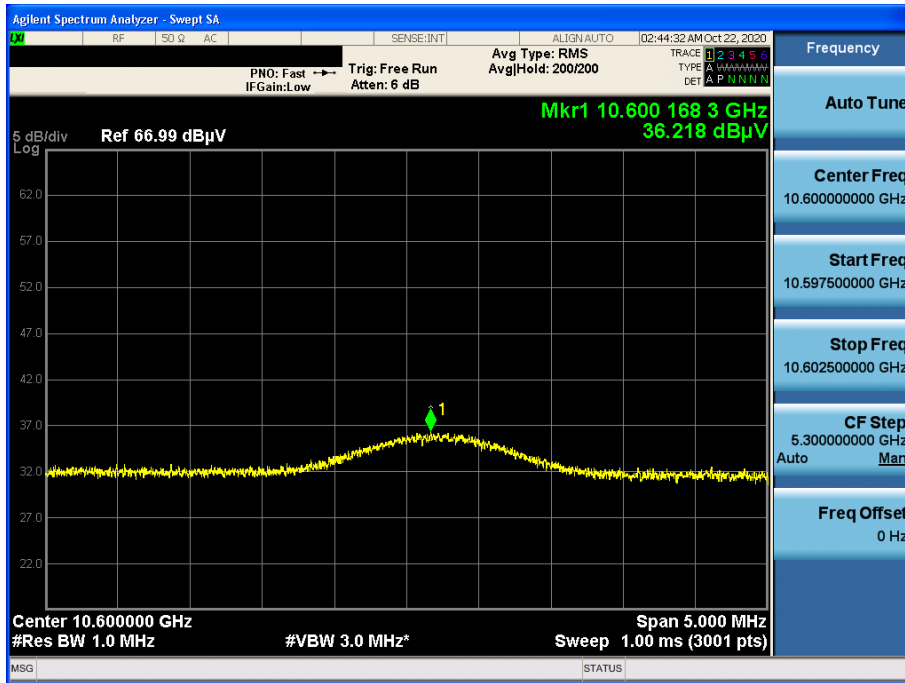
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Detector Mode : AV



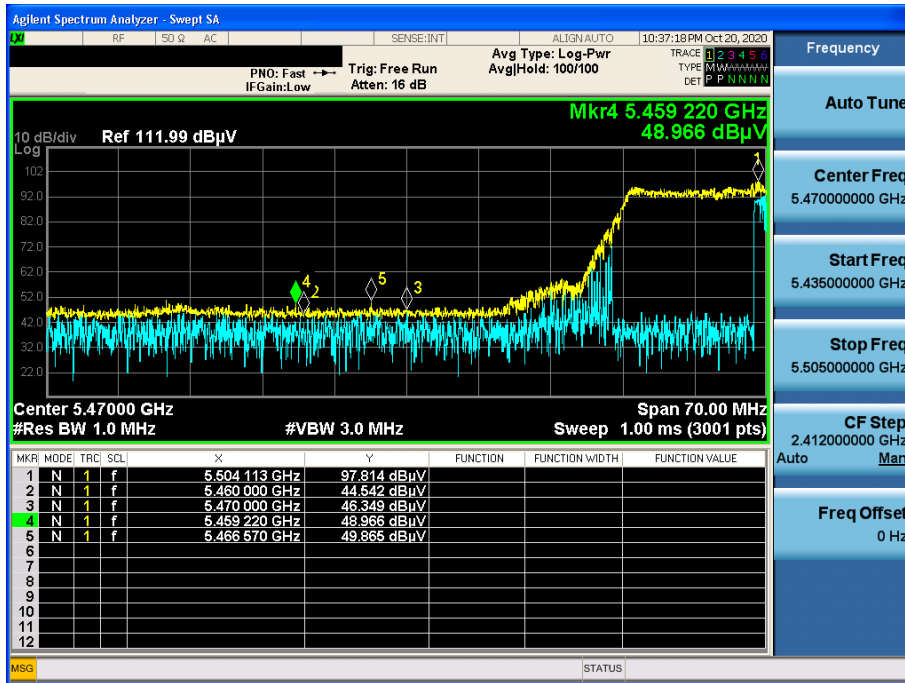
TM 2 & U-NII 2A & Ch.60 & X axis & Ver

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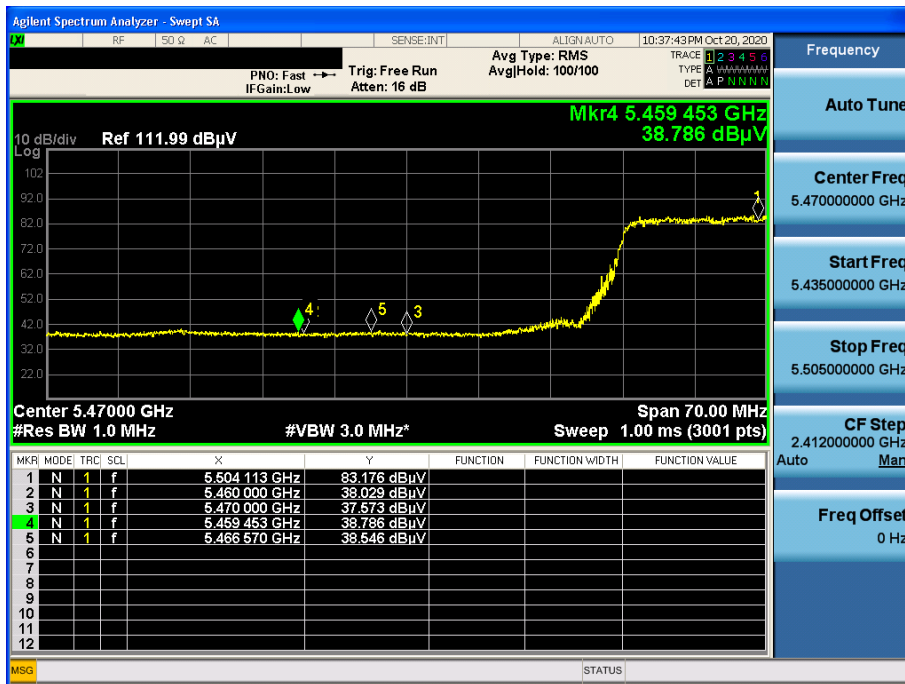
TM 2 & U-NII 2C & Ch.100 & X axis & Ver

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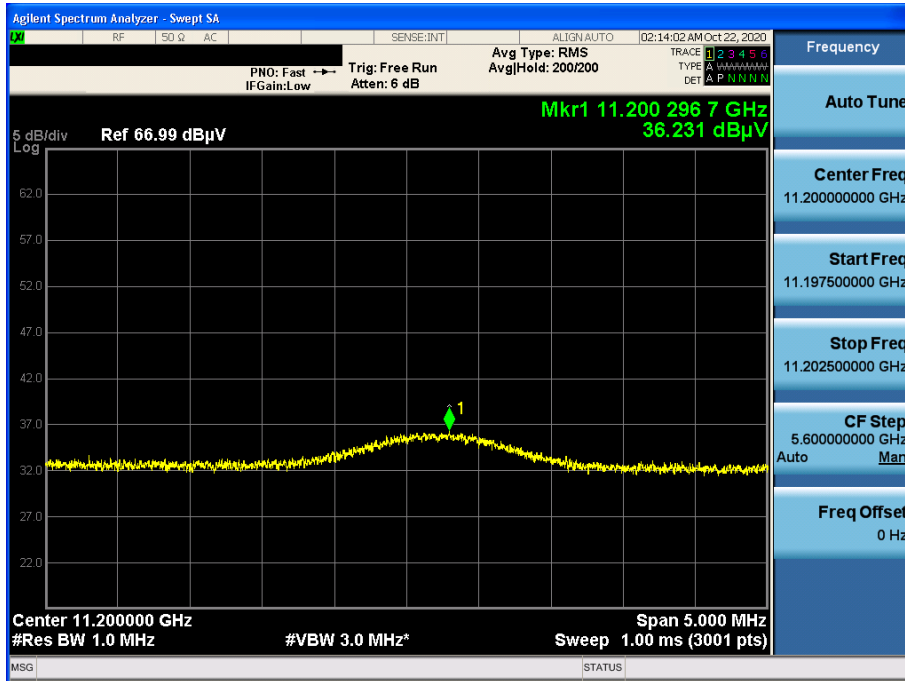
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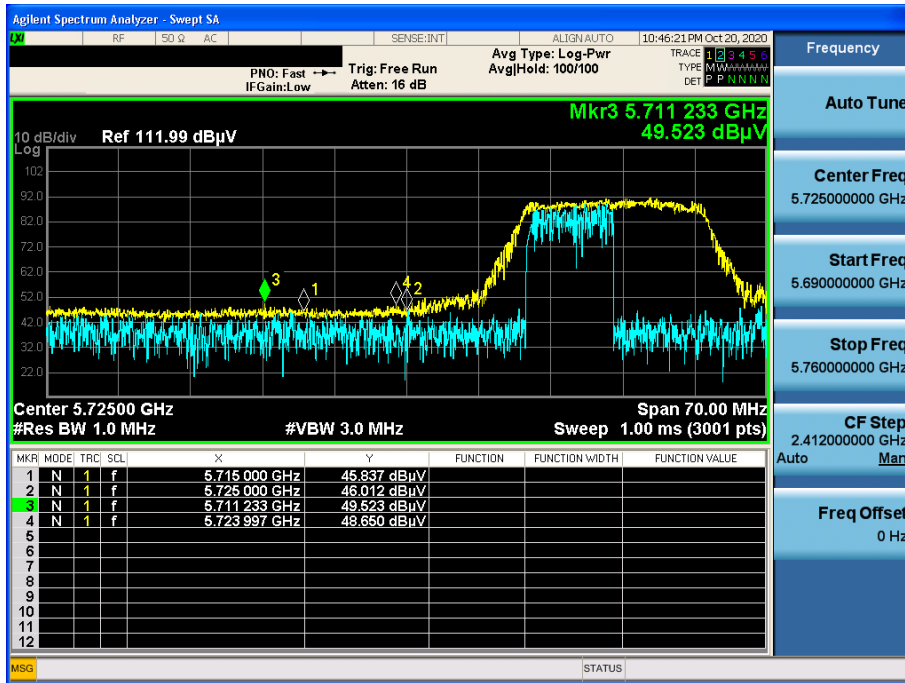
TM 2 & U-NII 2C & Ch.120 & X axis & Ver

Detector Mode : AV



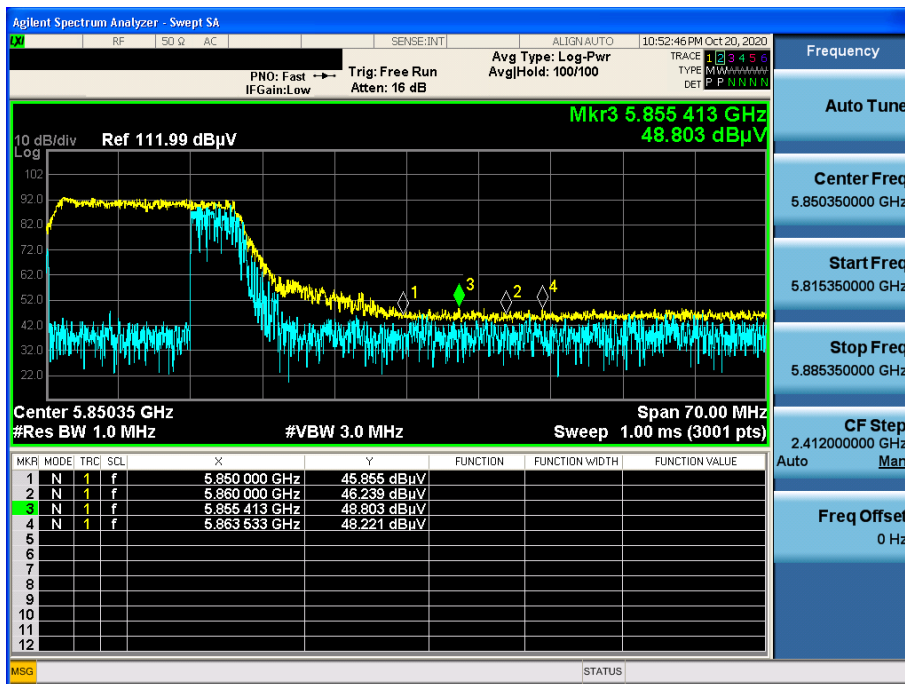
TM 2 & U-NII 3 & Ch.149 & X axis & Ver

Detector Mode : PK



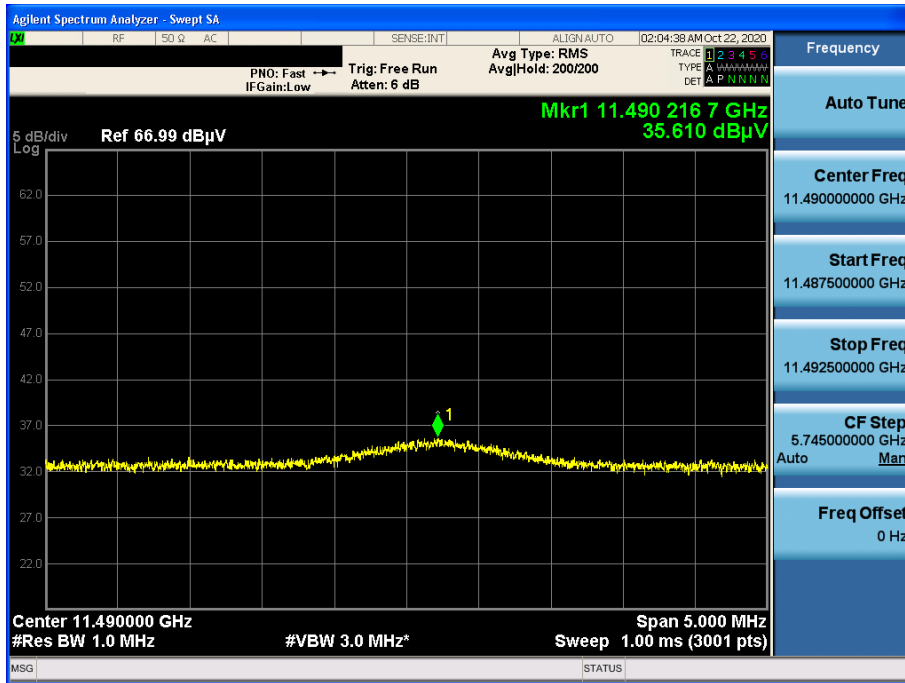
TM 2 & U-NII 3 & Ch.165 & X axis & Ver

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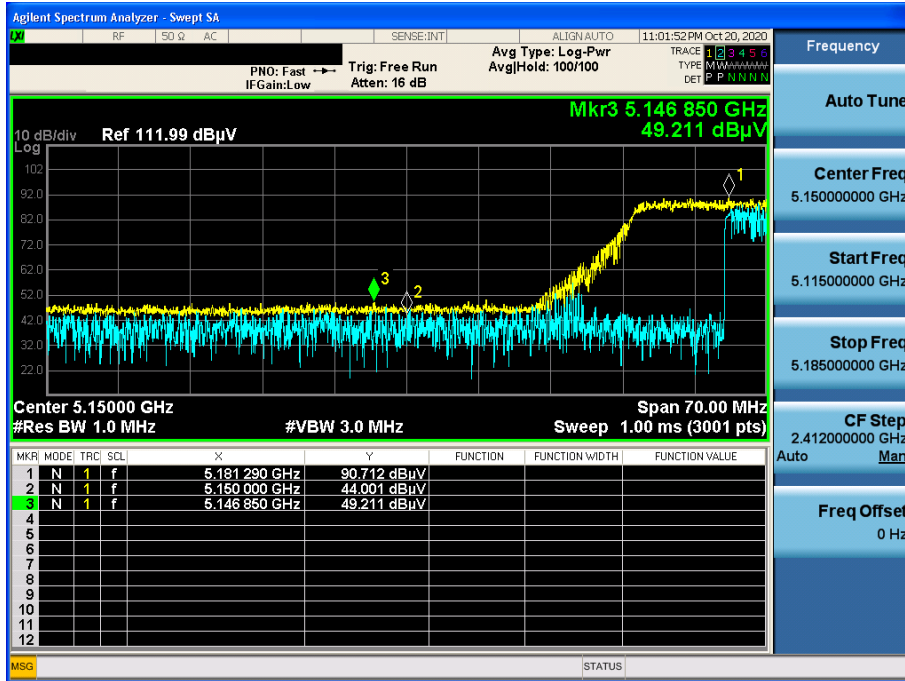
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Detector Mode : AV



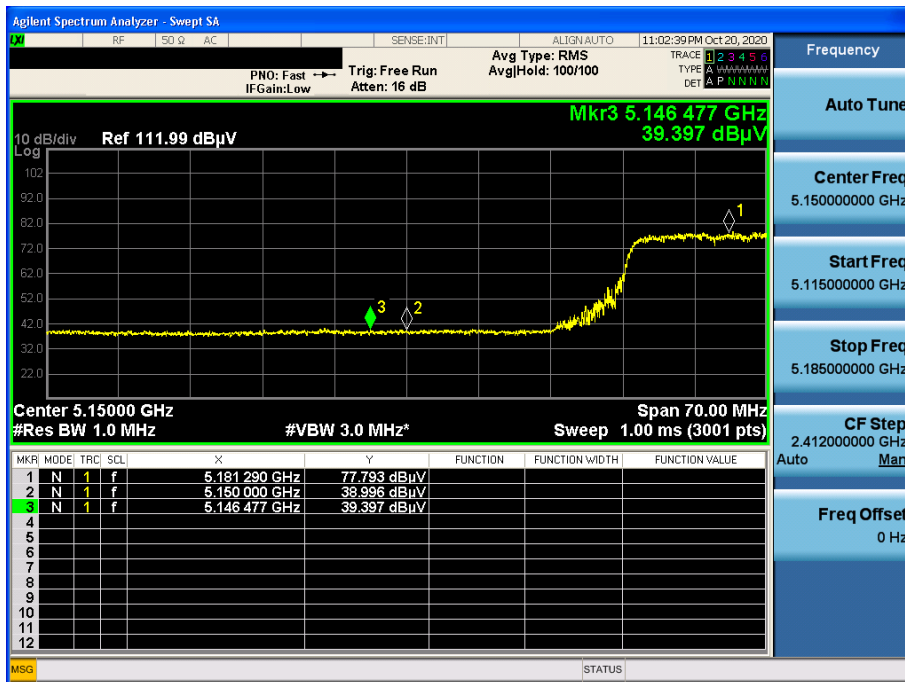
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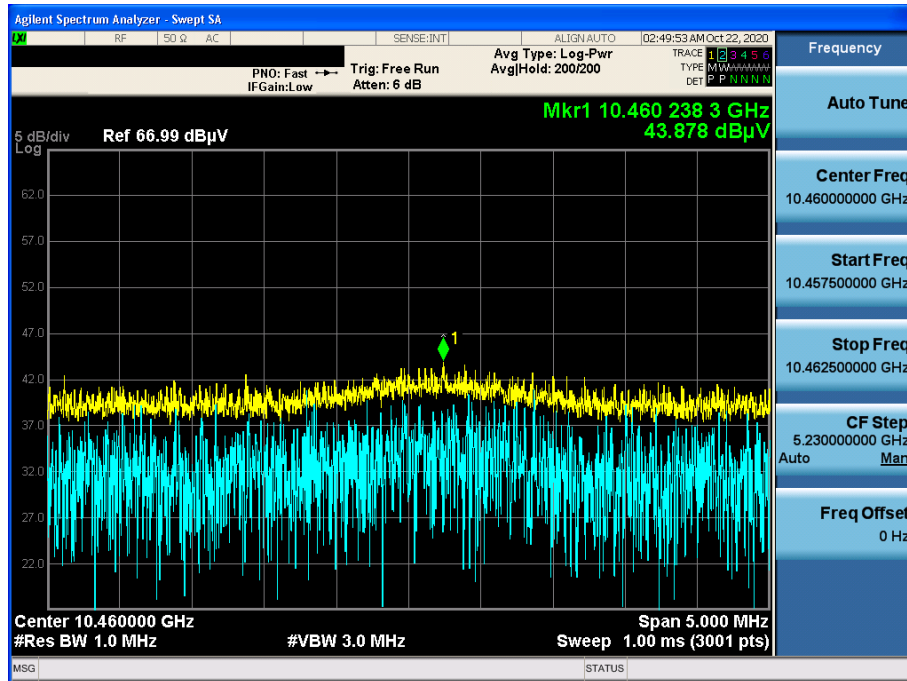
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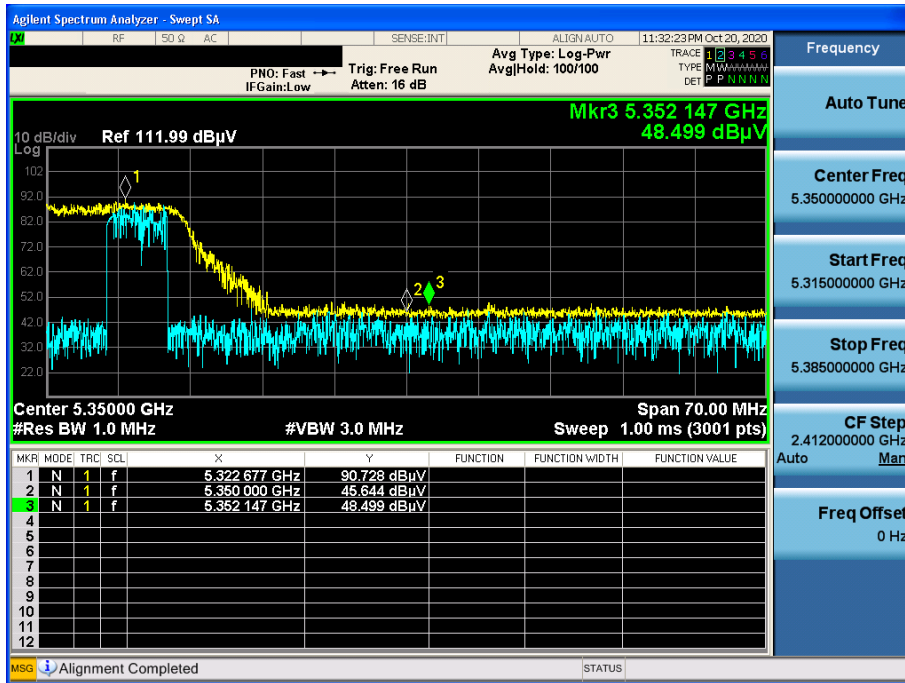
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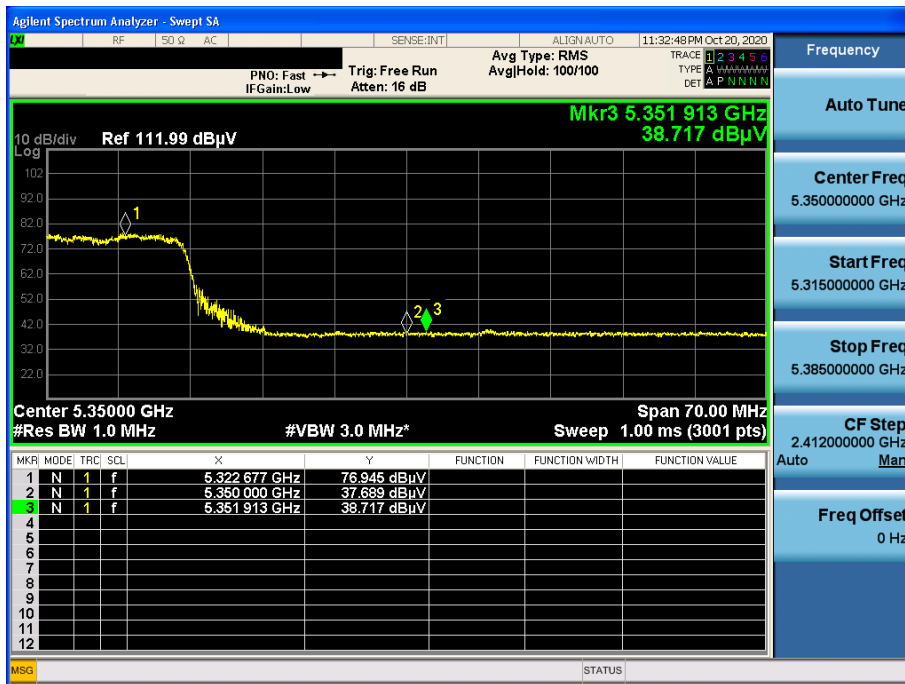
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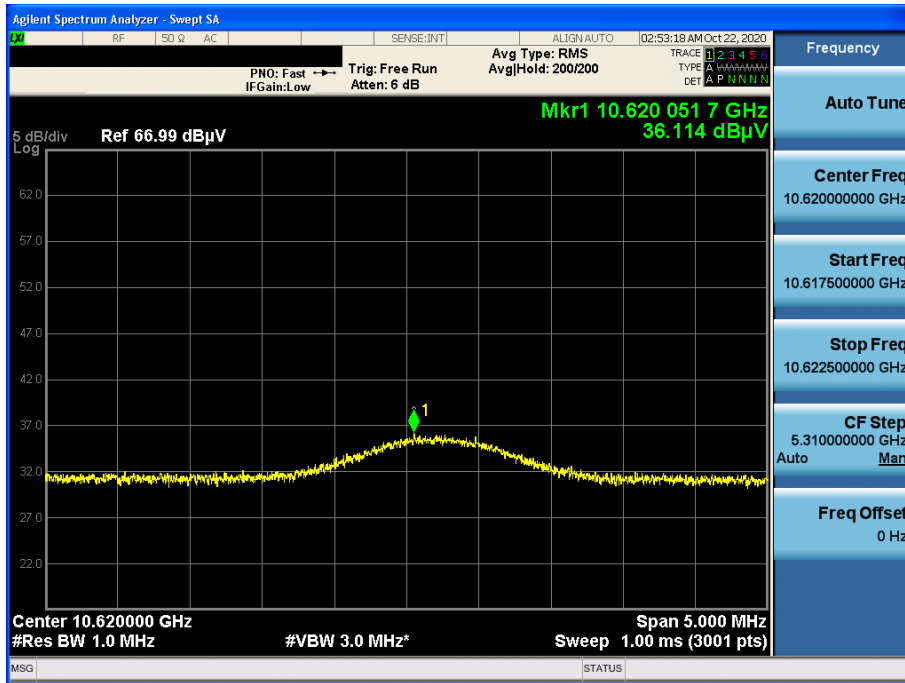
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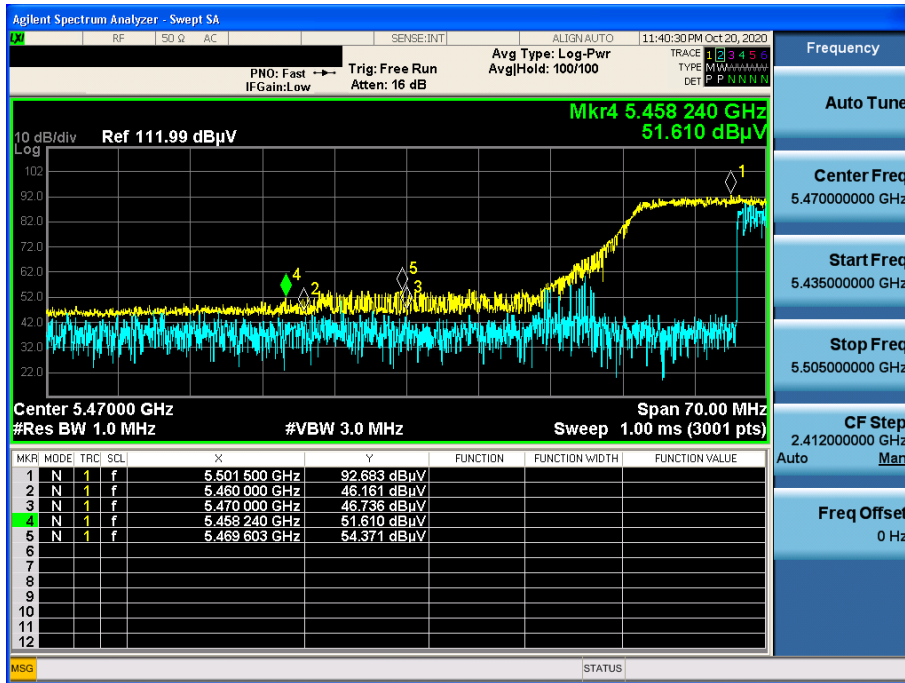
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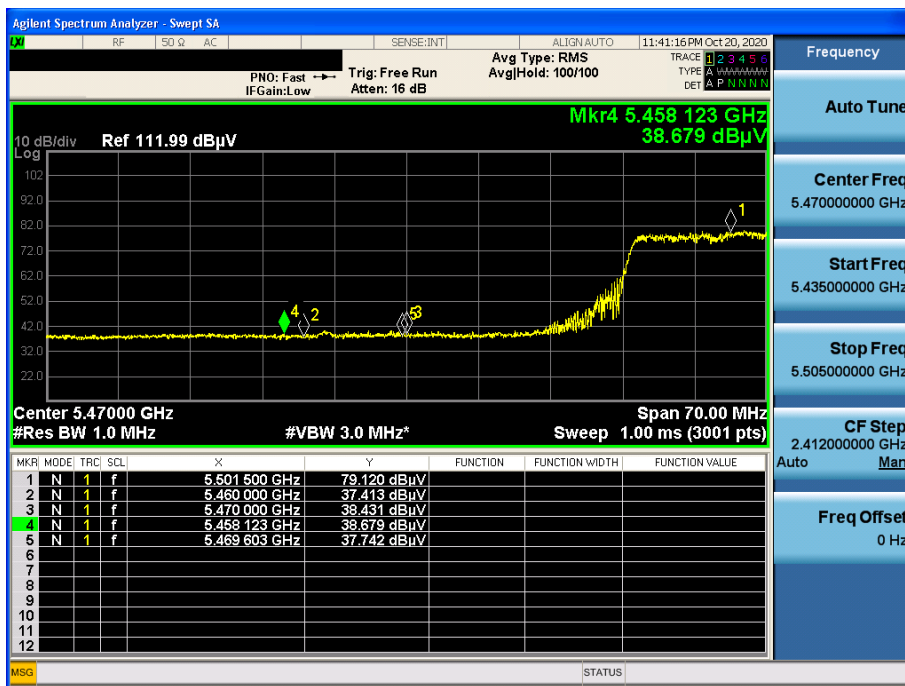
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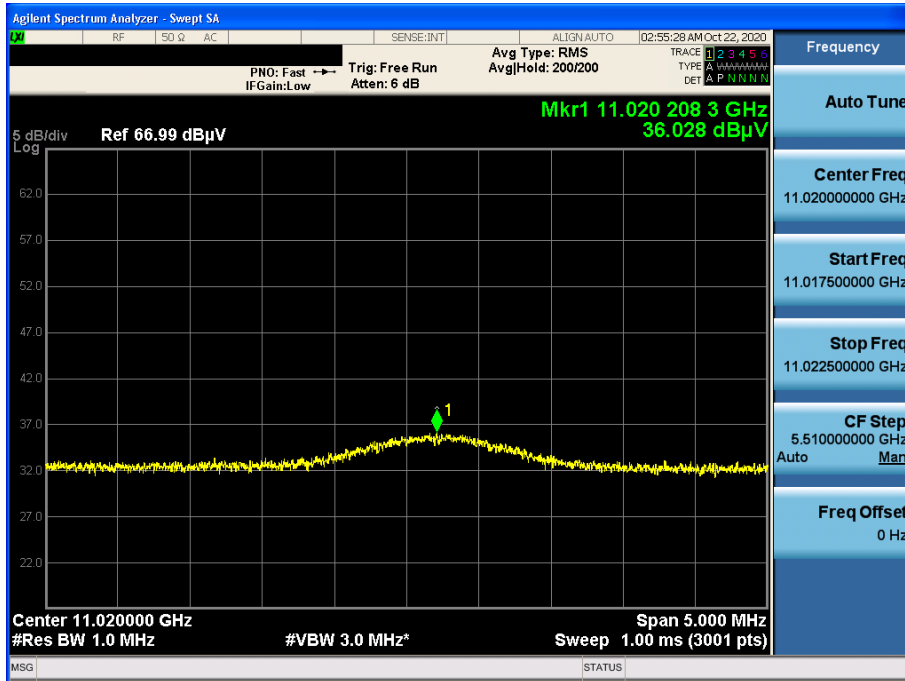
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Detector Mode : AV



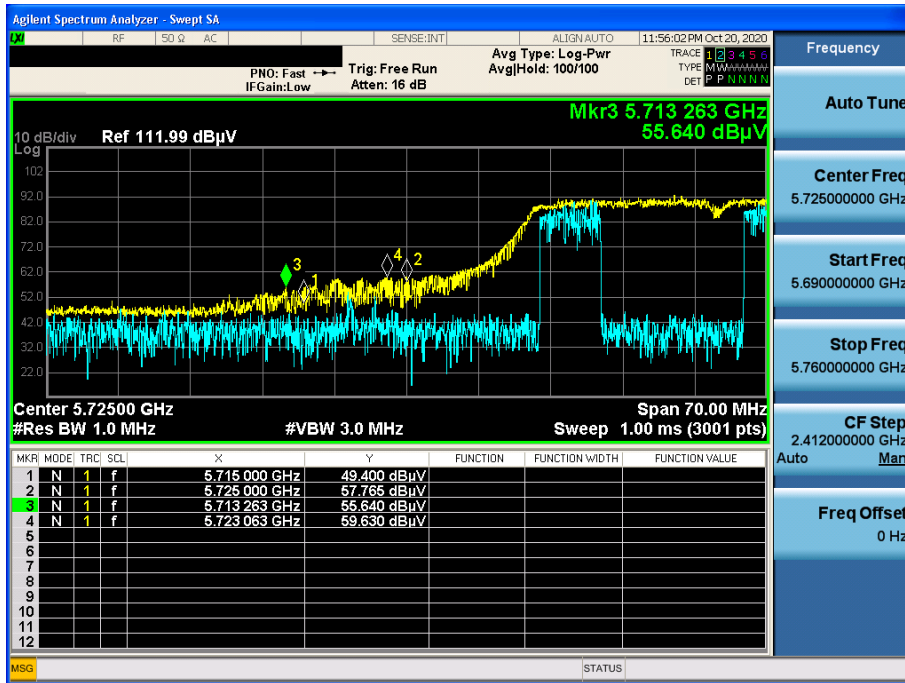
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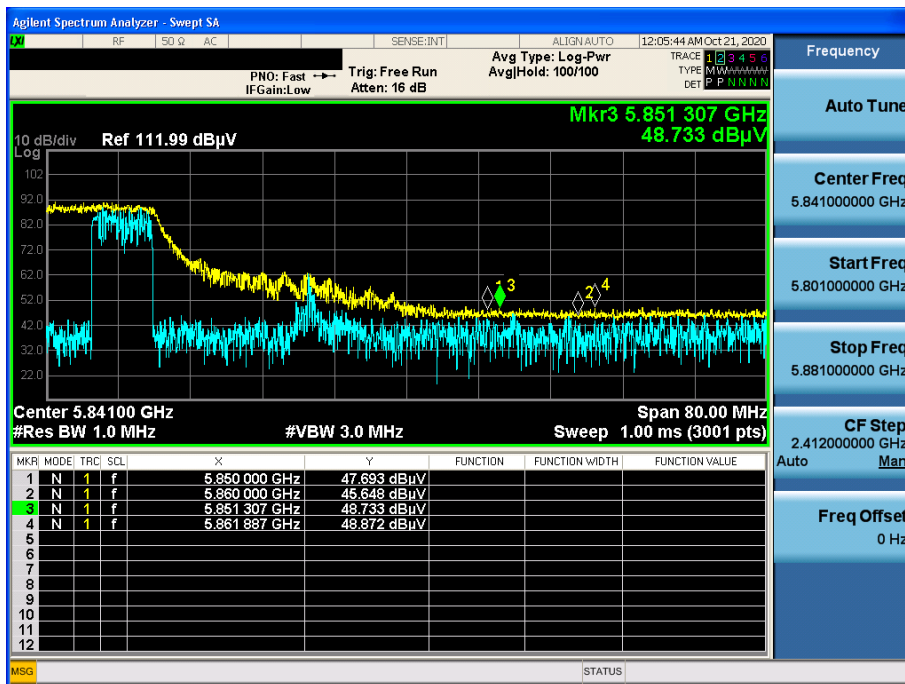
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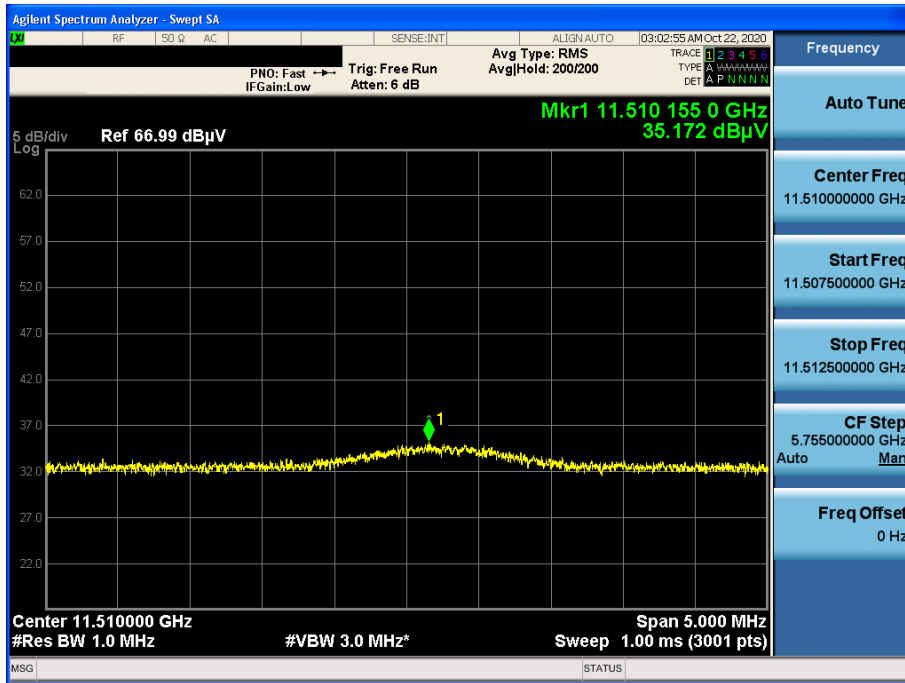
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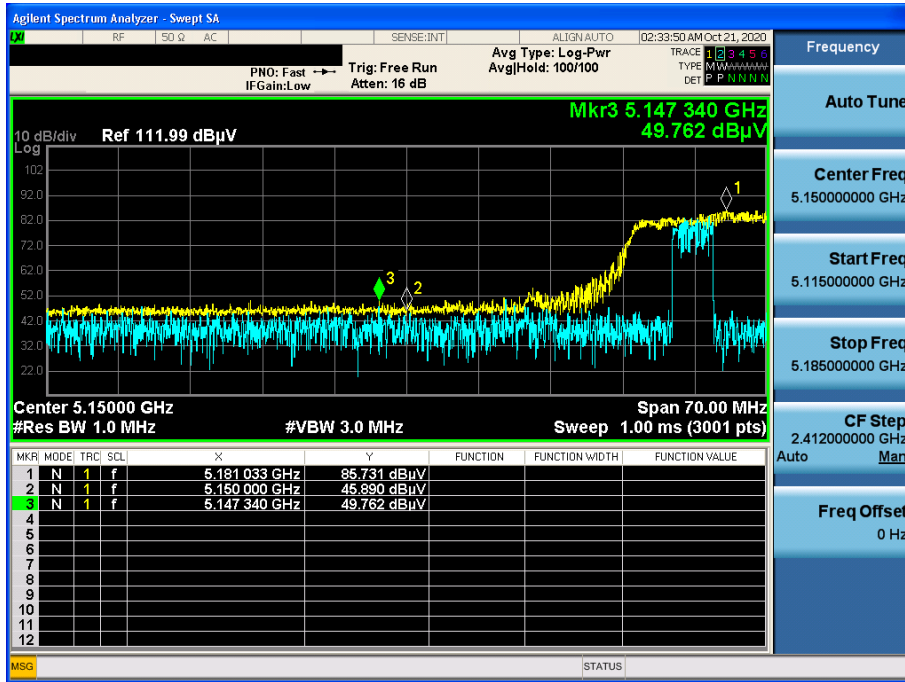
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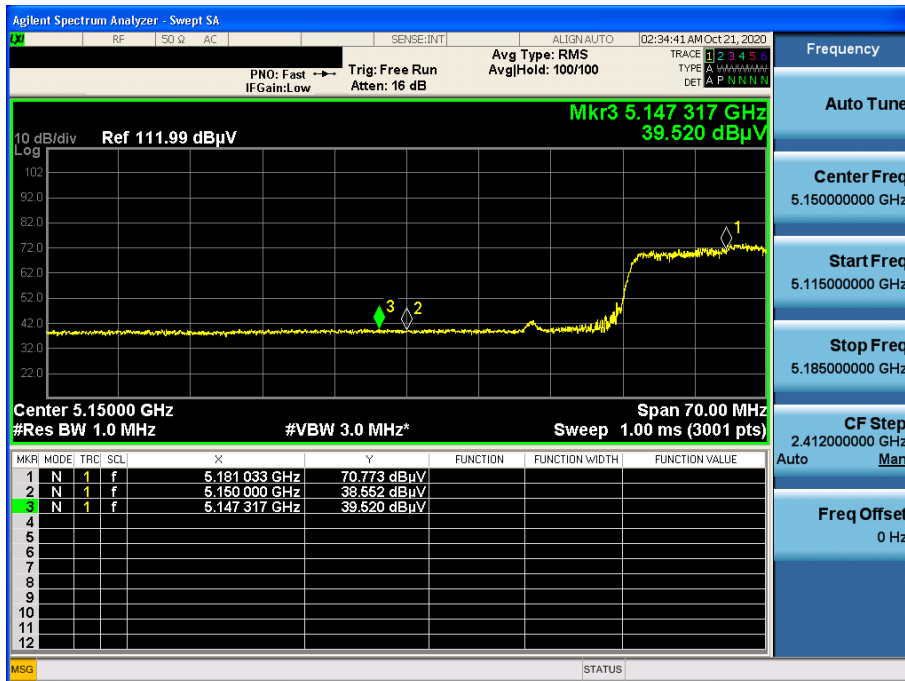
TM 4 & U-NII 1 & Ch.42 & X axis & Ver

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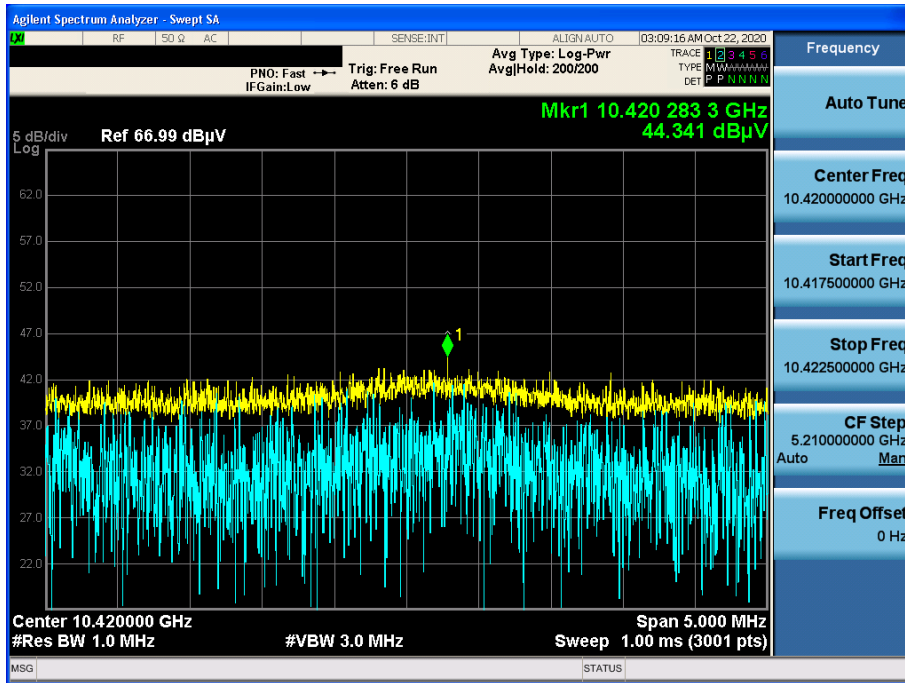
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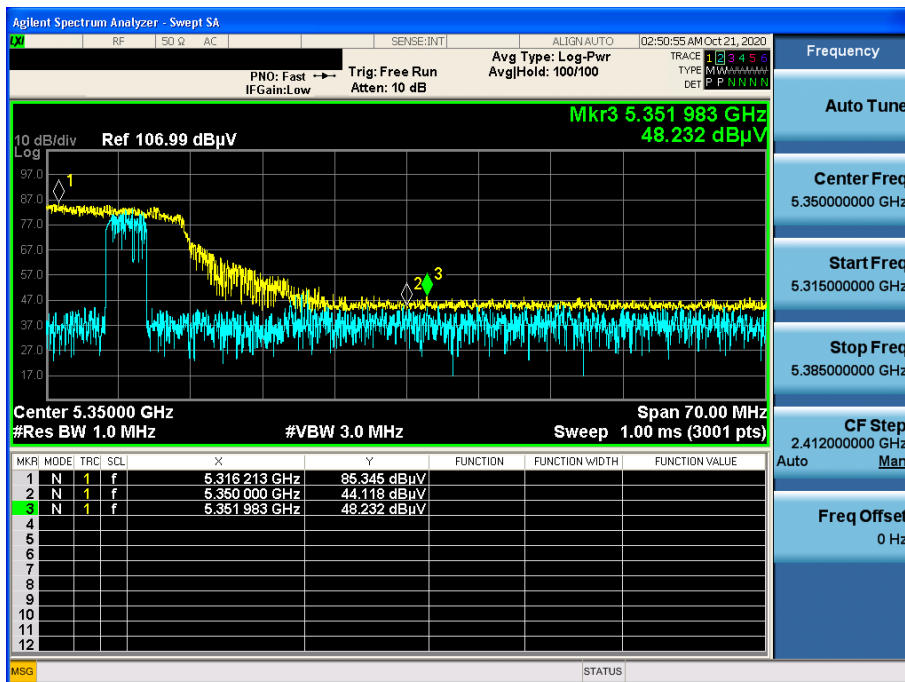
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Detector Mode : PK



TM 4 & U-NII 2A & Ch.58 & X axis & Ver

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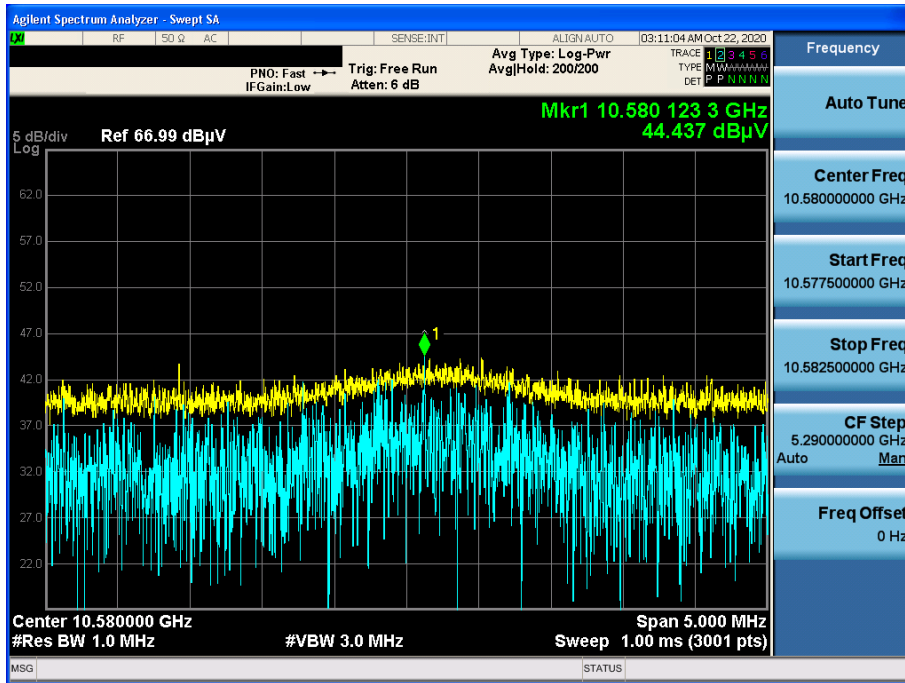
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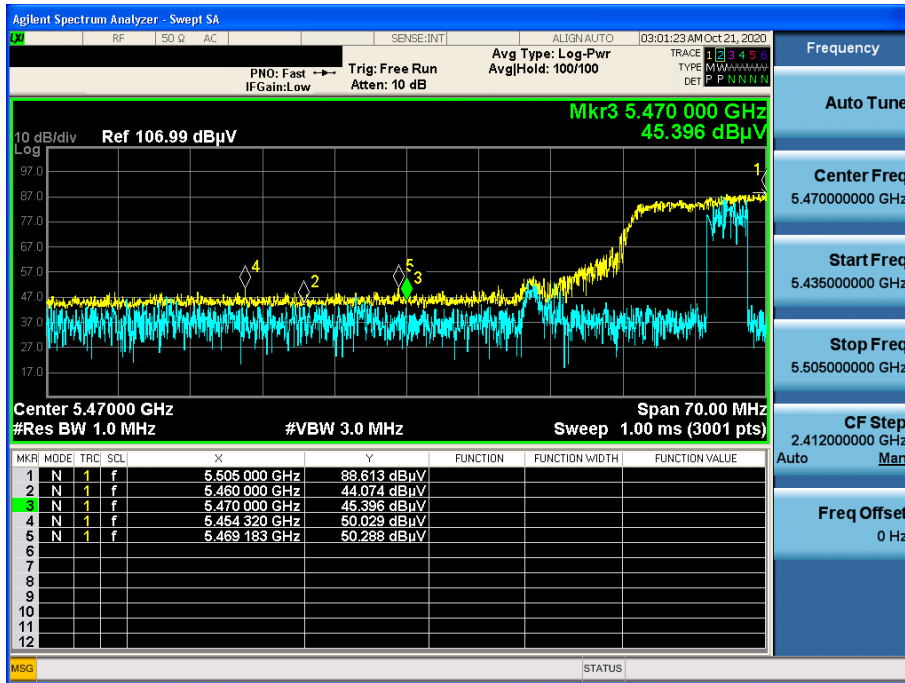
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Detector Mode : PK



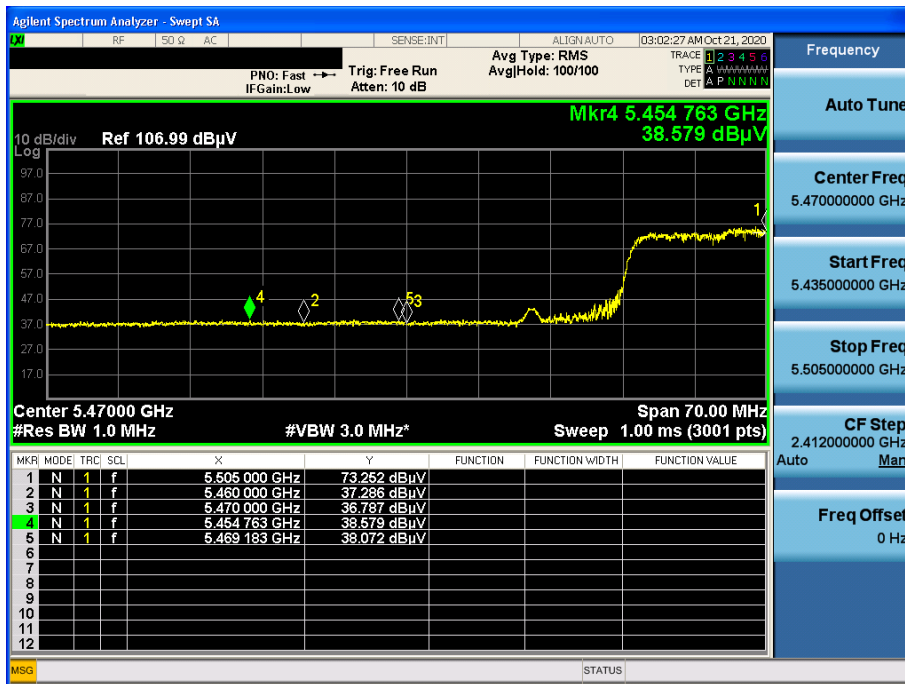
TM 4 & U-NII 2C & Ch.106 & X axis & Ver

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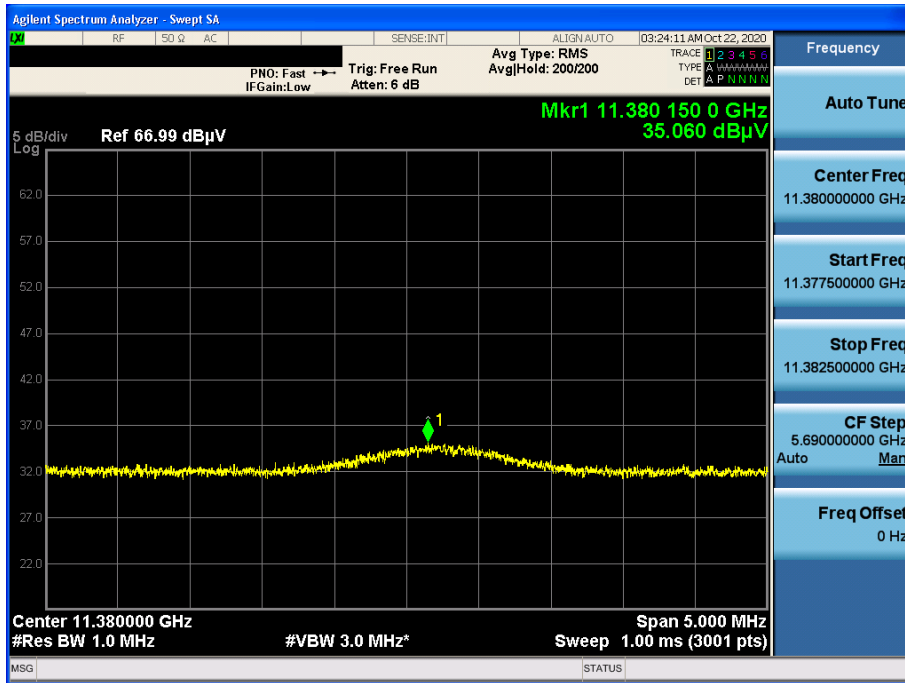
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Detector Mode : AV



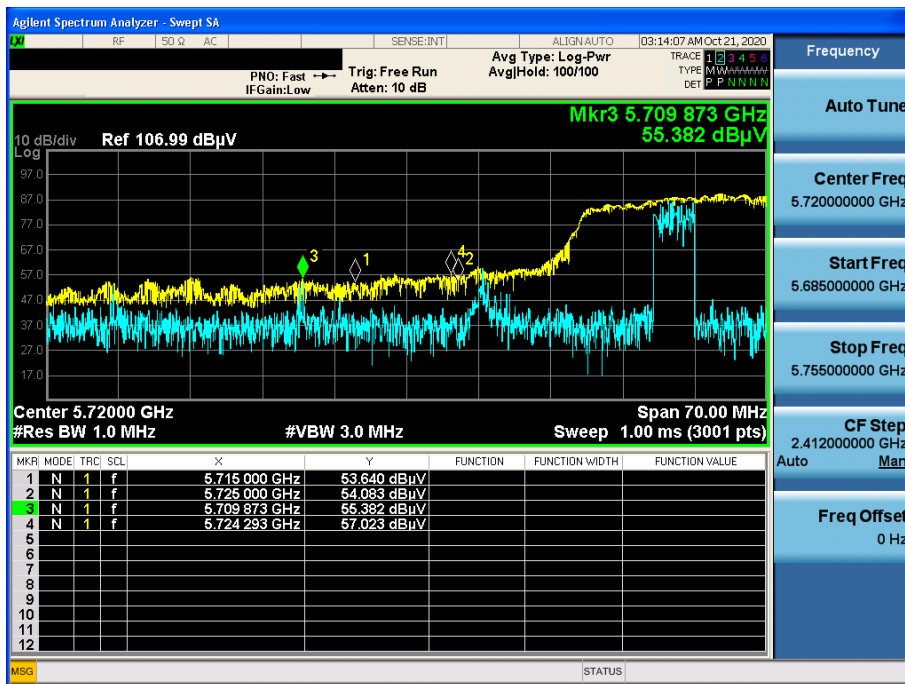
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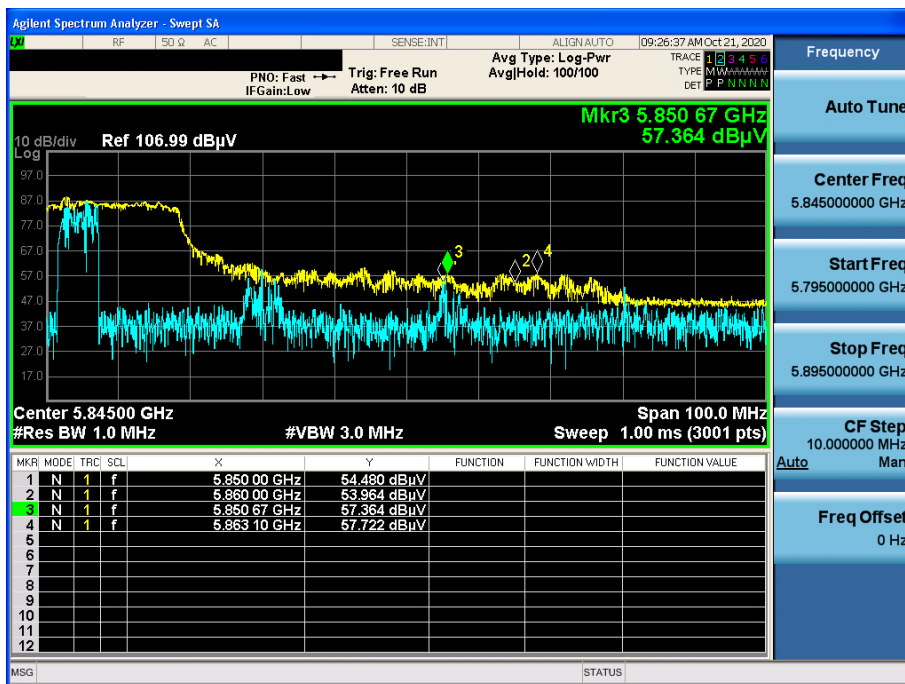
TM 4 & U-NII 3 & Ch.155 & X axis & Ver

Detector Mode : PK



TM 4 & U-NII 3 & Ch.155 & X axis & Ver

Detector Mode : PK



TM 4 & U-NII 3 & Ch.155 & X axis & Ver

Detector Mode : AV

