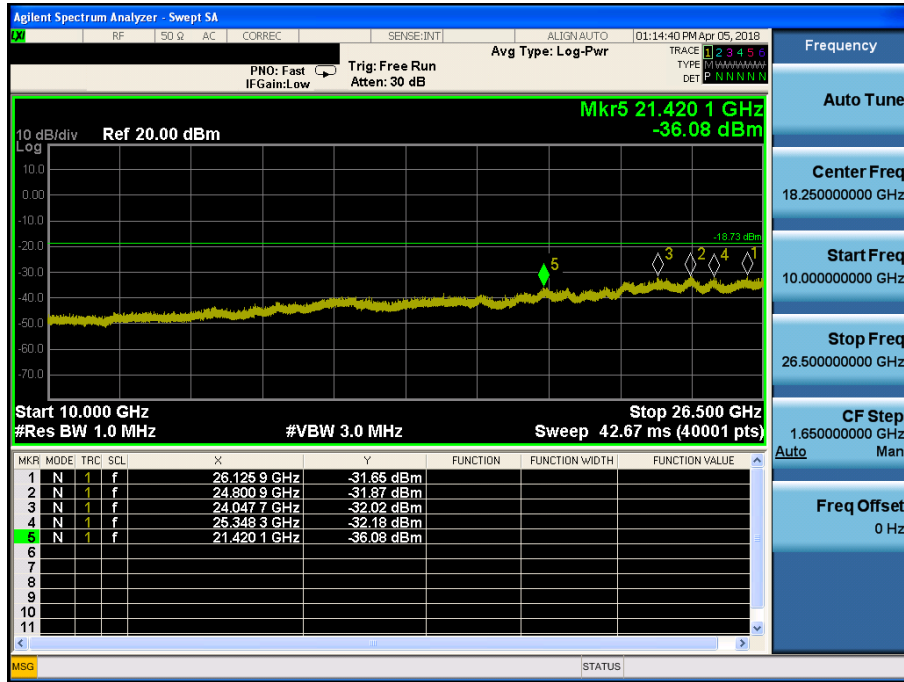
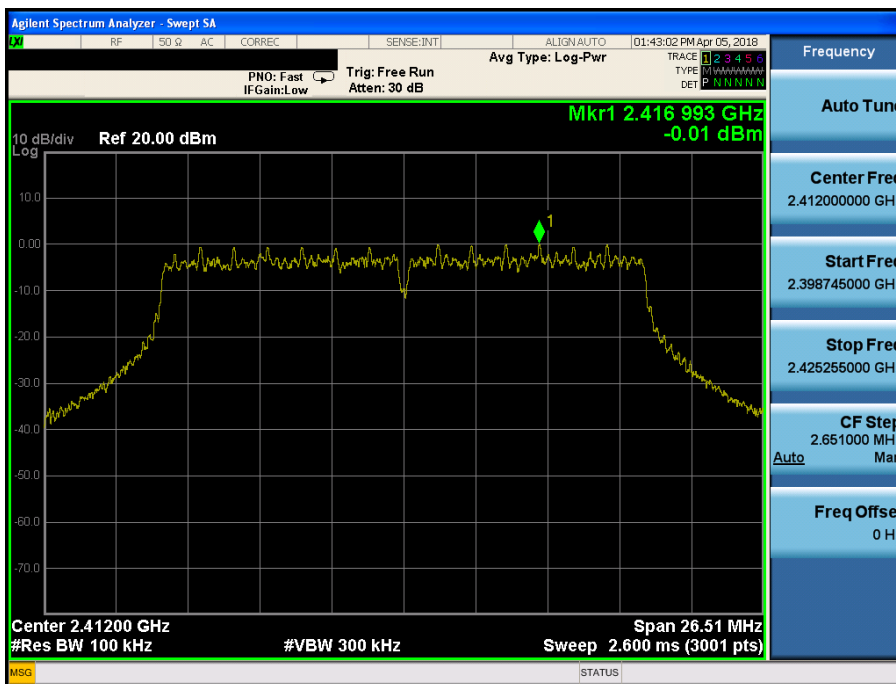


Conducted Spurious Emissions

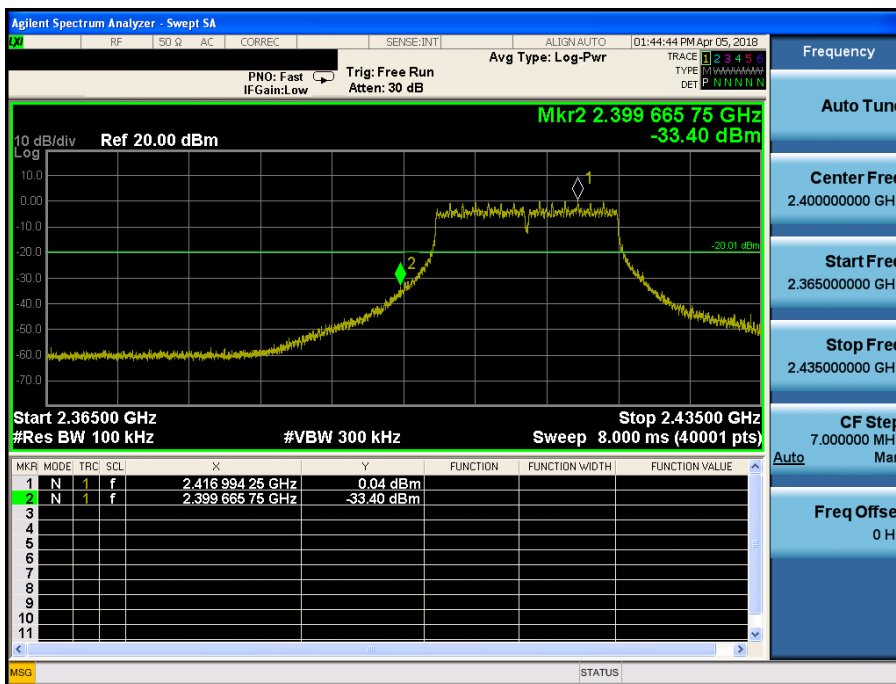


TM 8 & ANT 2 & Lowest

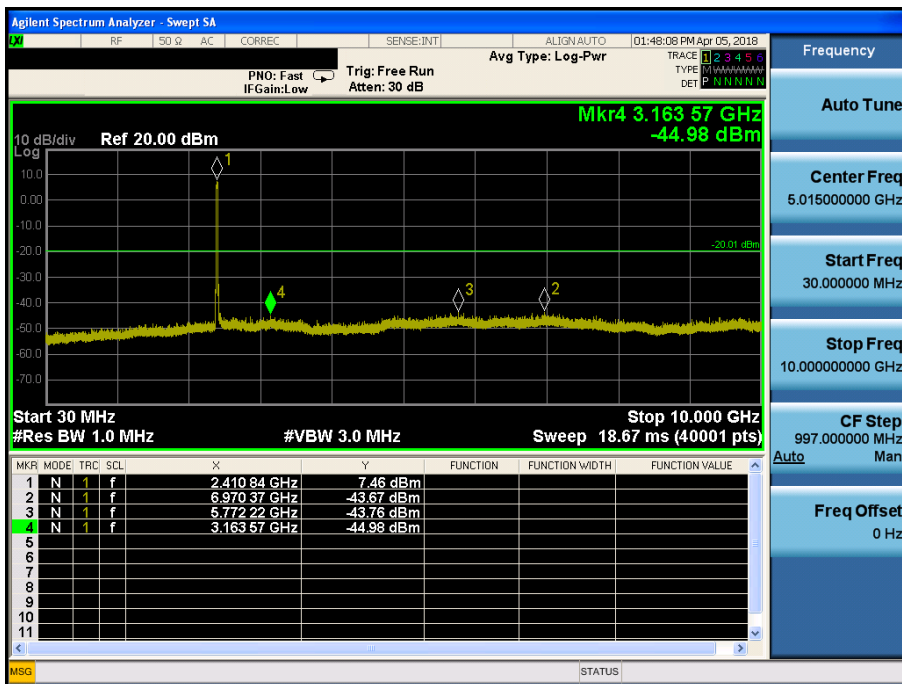
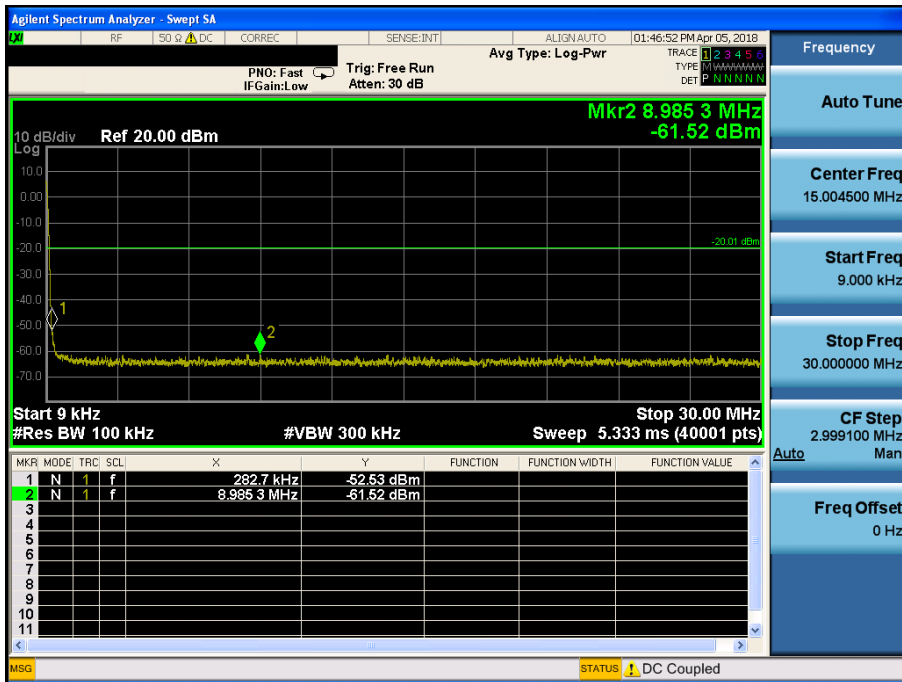
Reference



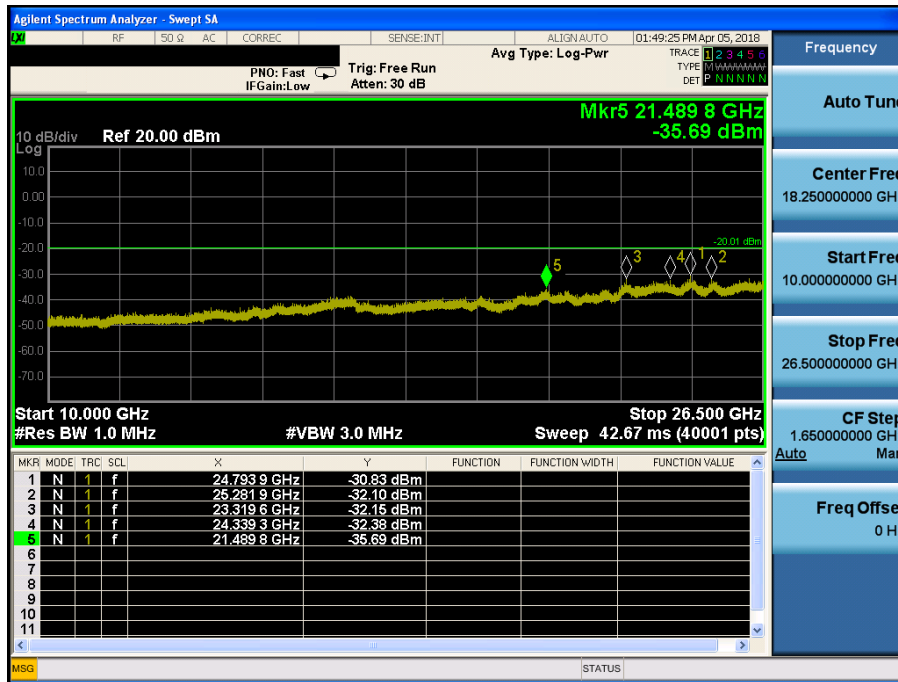
Low Band-edge



Conducted Spurious Emissions

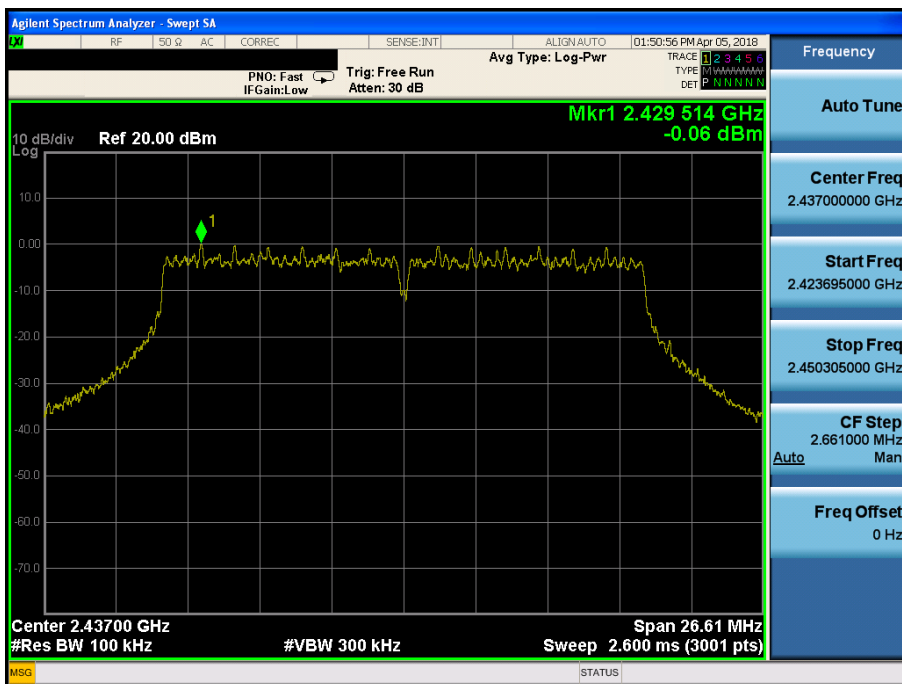


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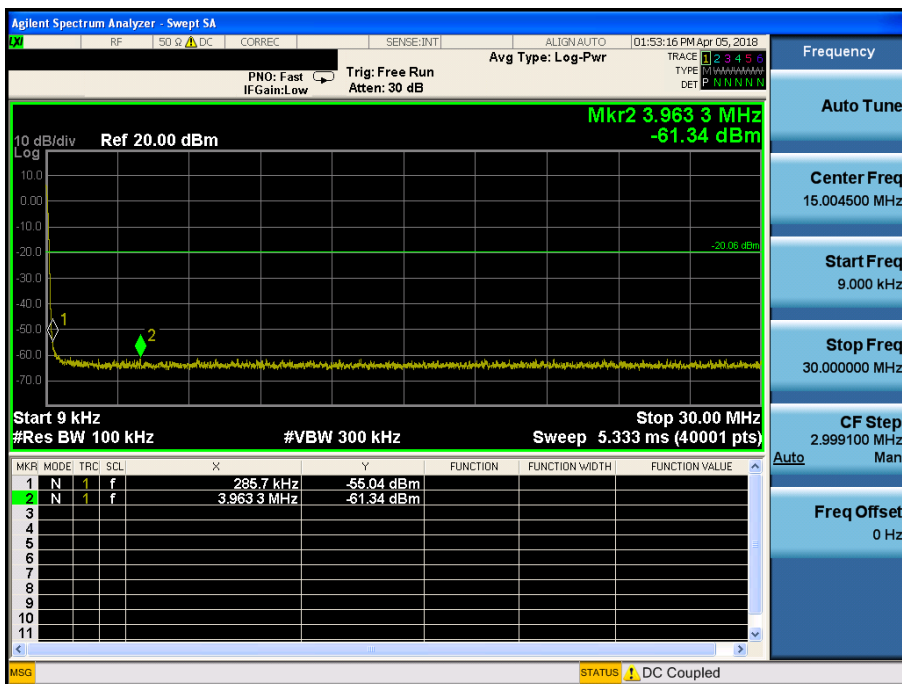


TM 8 & ANT 2 & Middle

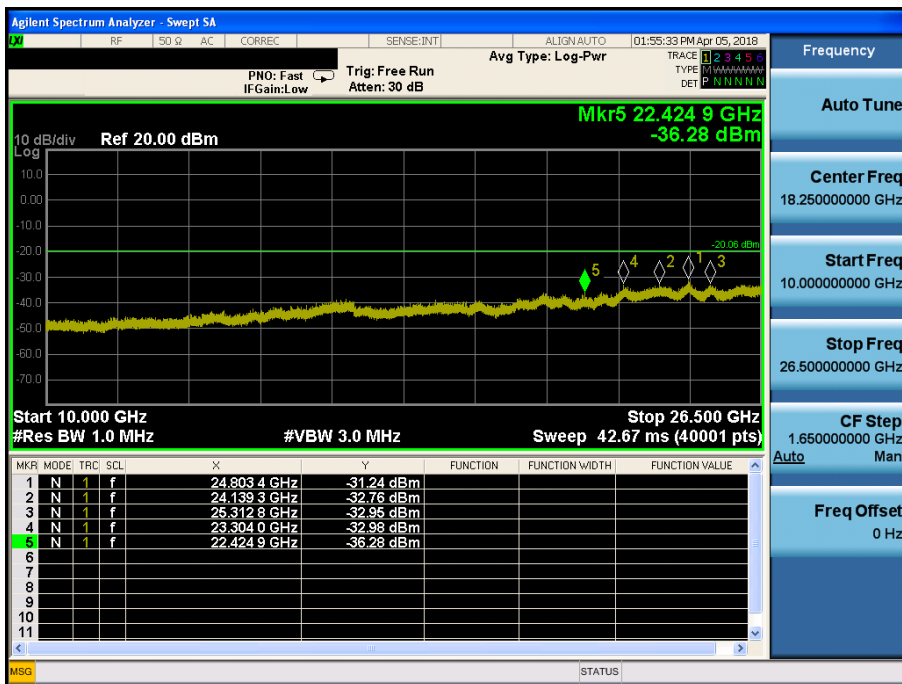
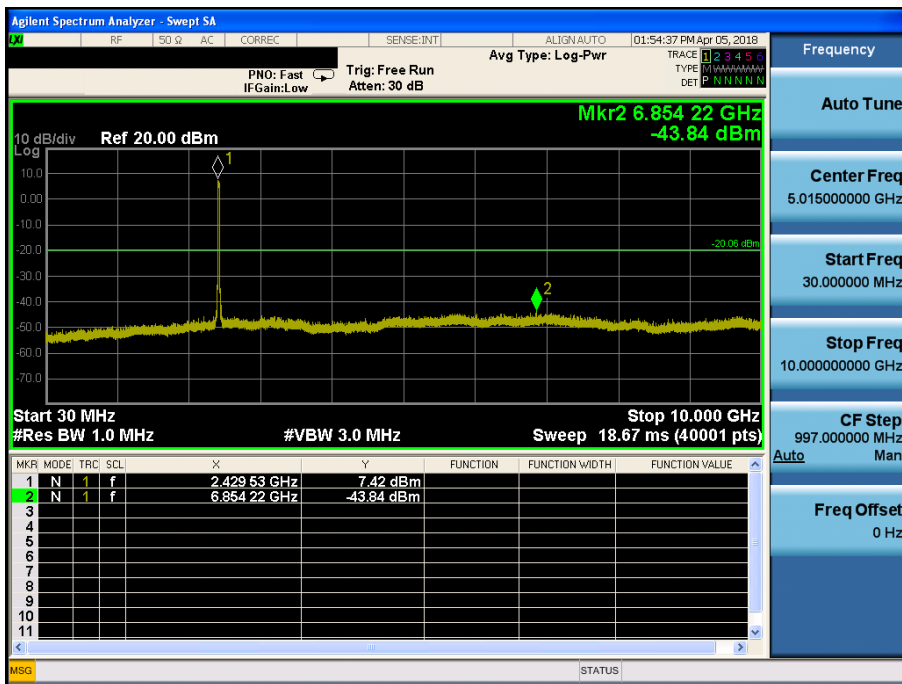
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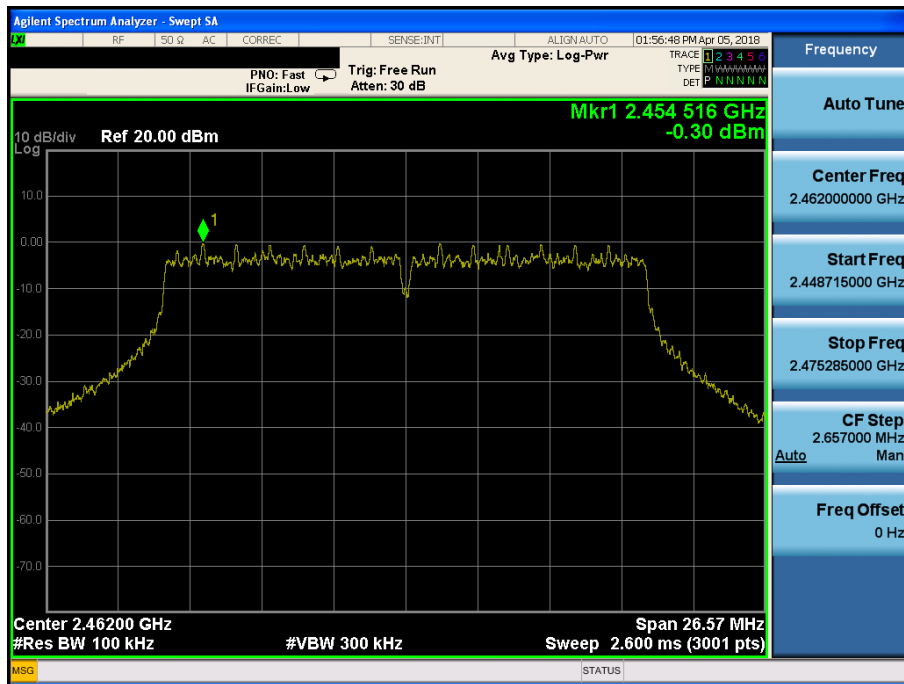
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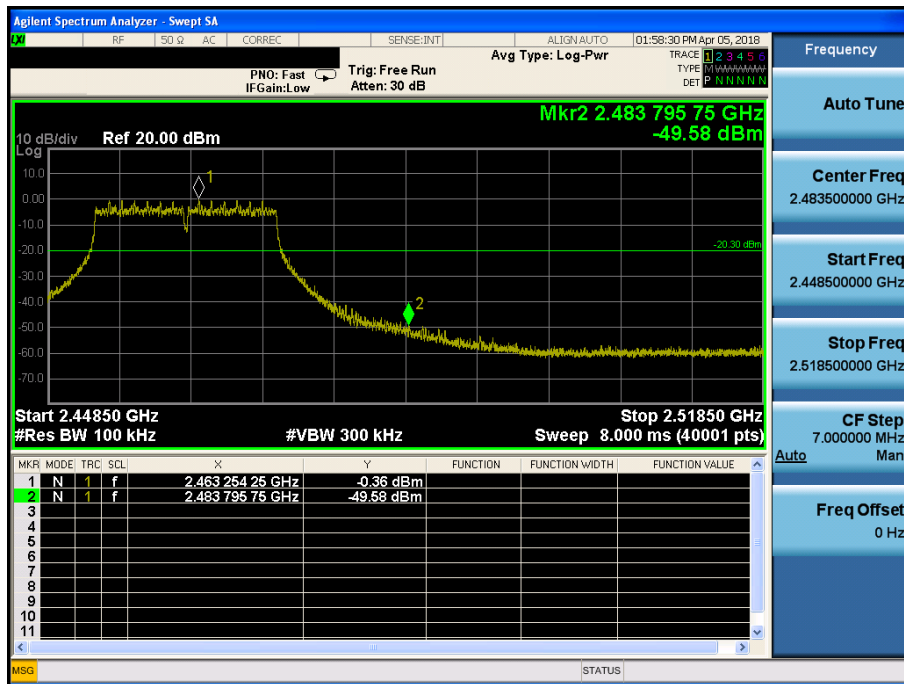
Conducted Spurious Emissions



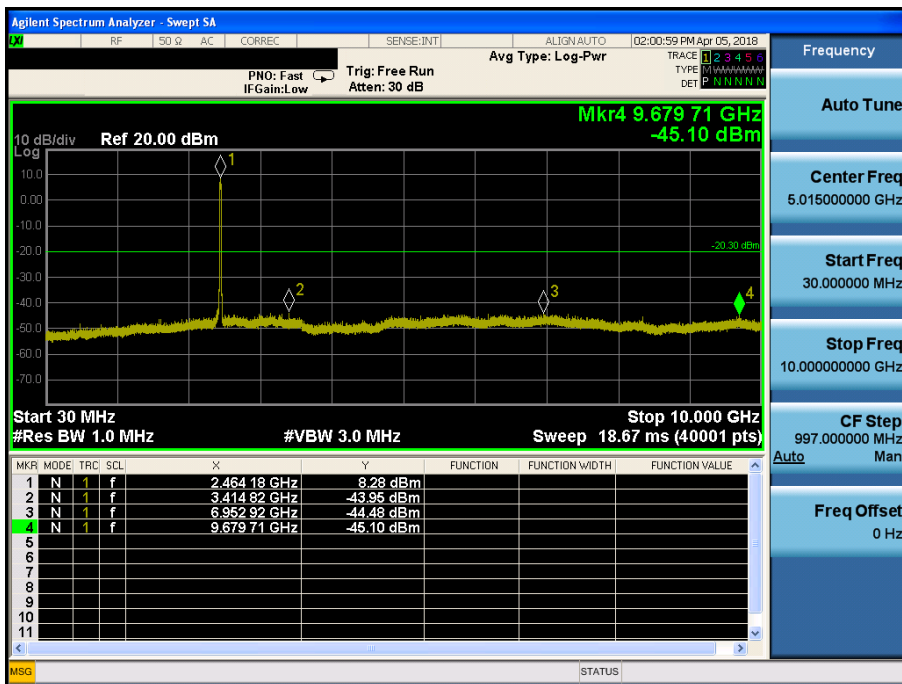
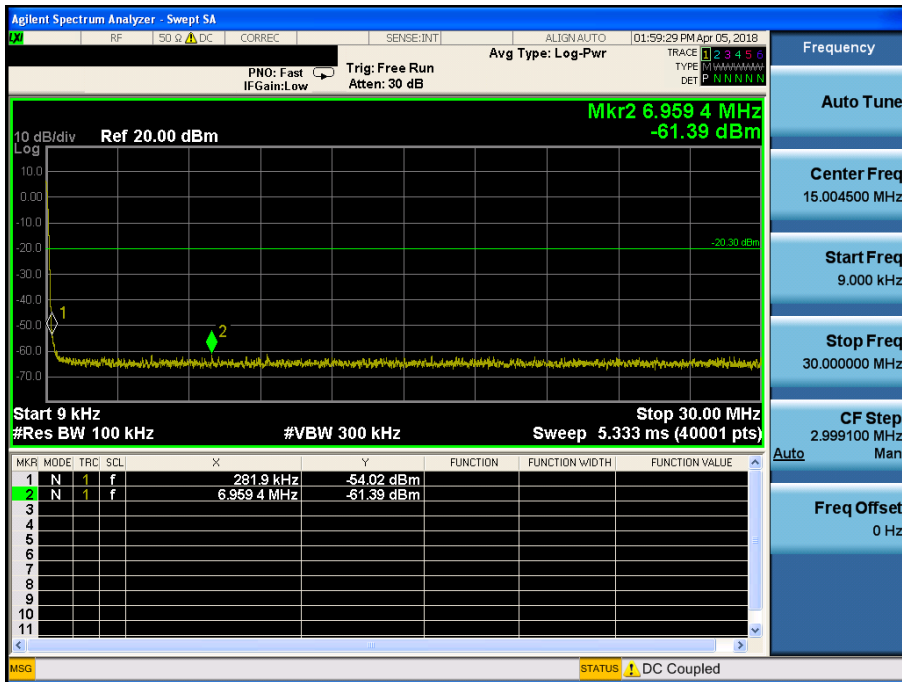
TM 8 & ANT 2 & Highest Reference



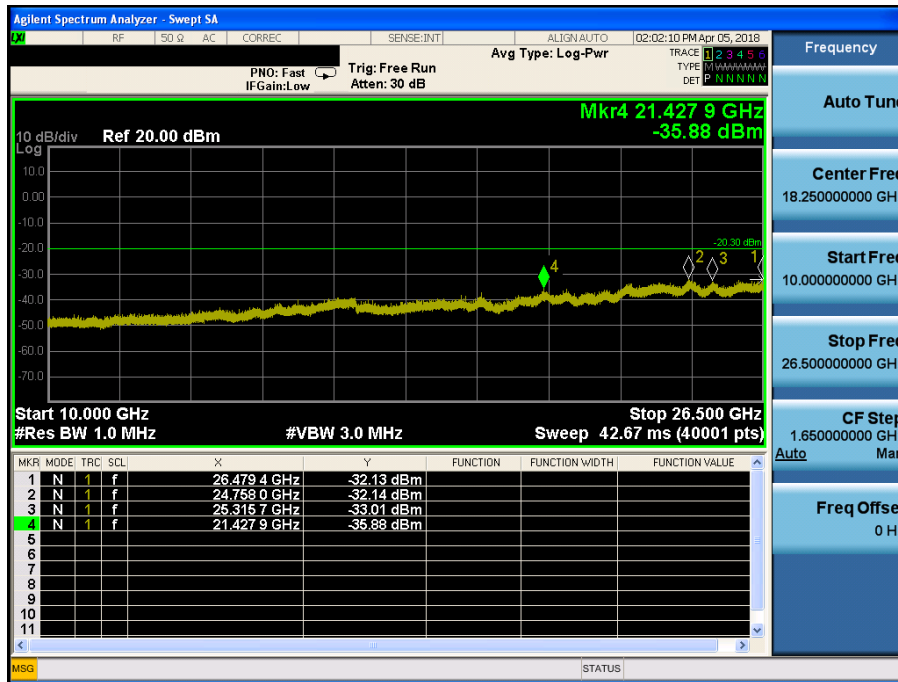
High Band-edge



Conducted Spurious Emissions

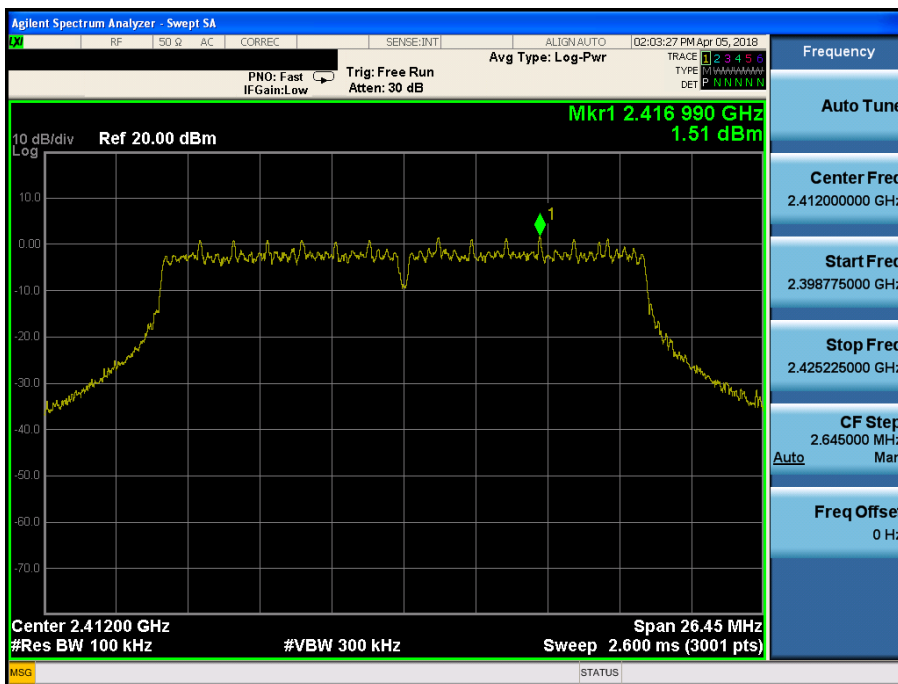


Conducted Spurious Emissions

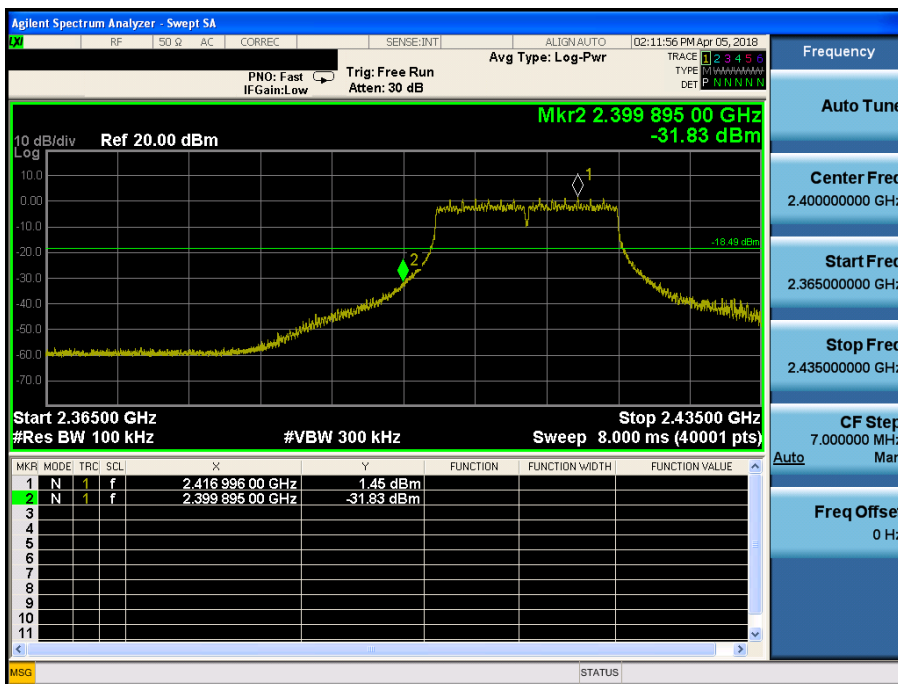


TM 9 & ANT 2 & Lowest

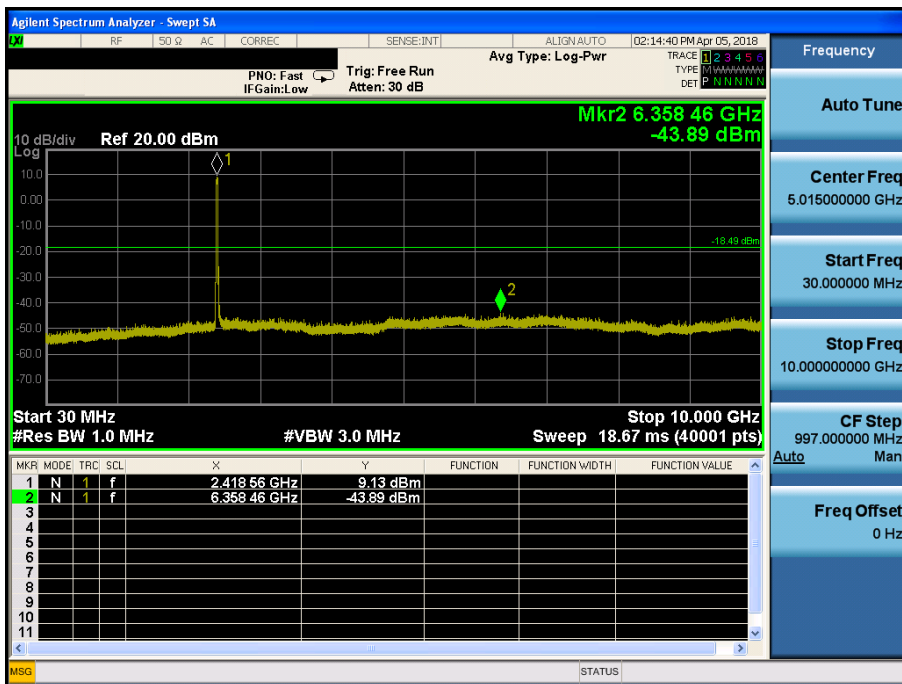
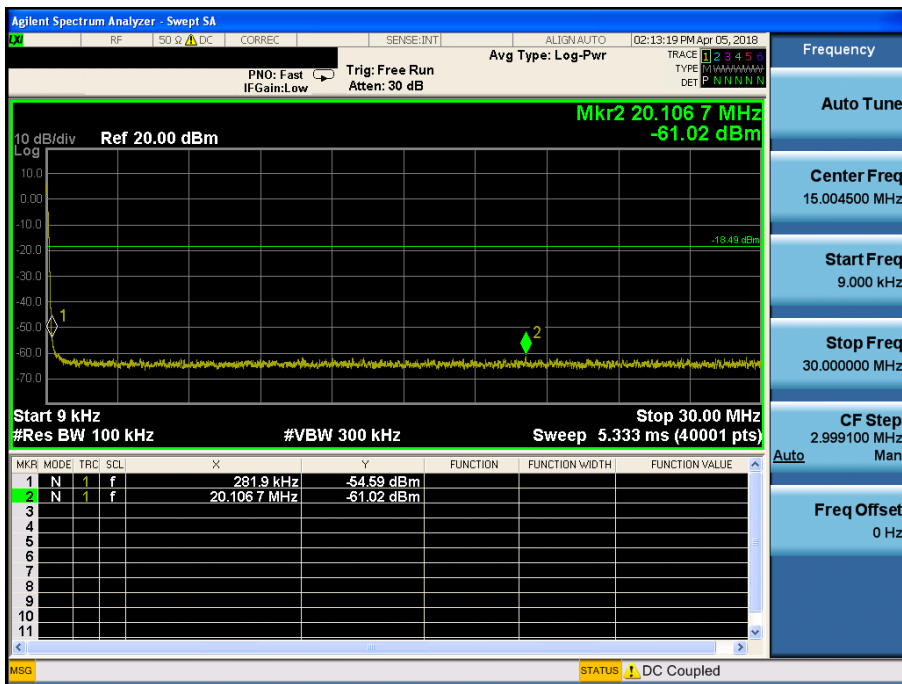
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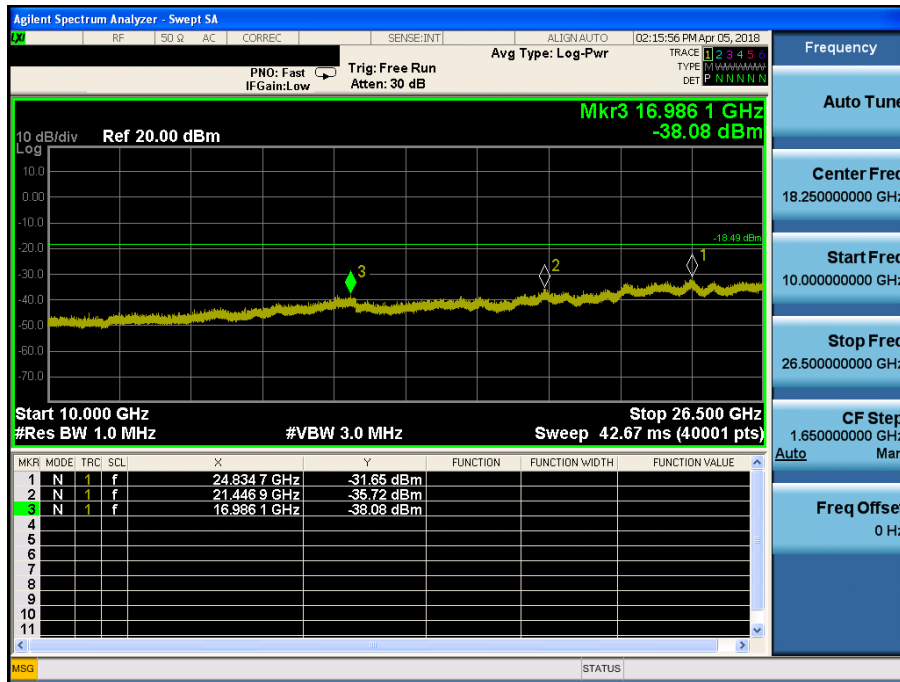
Low Band-edge



Conducted Spurious Emissions

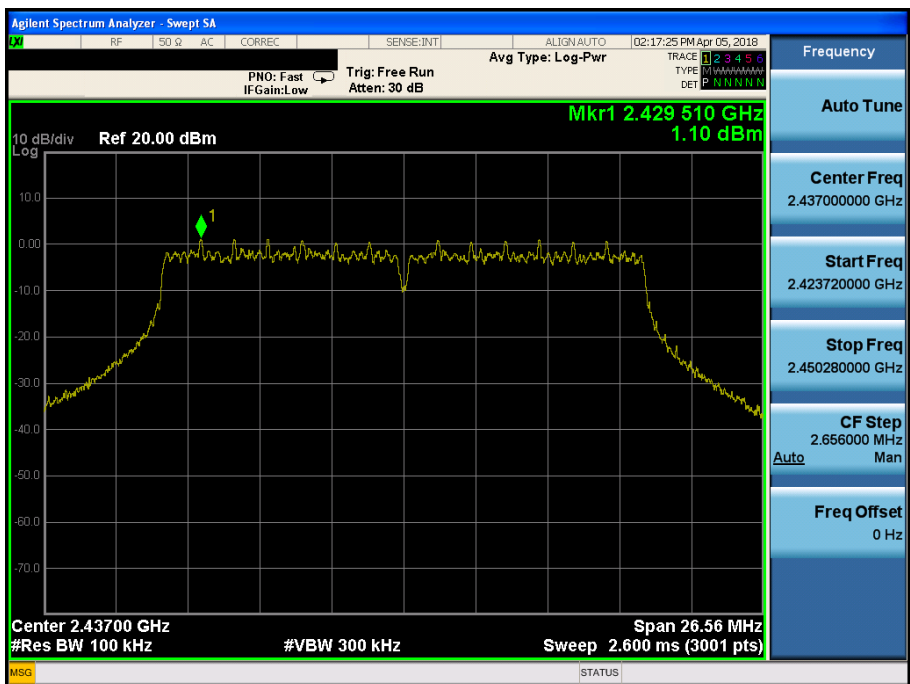


Conducted Spurious Emissions

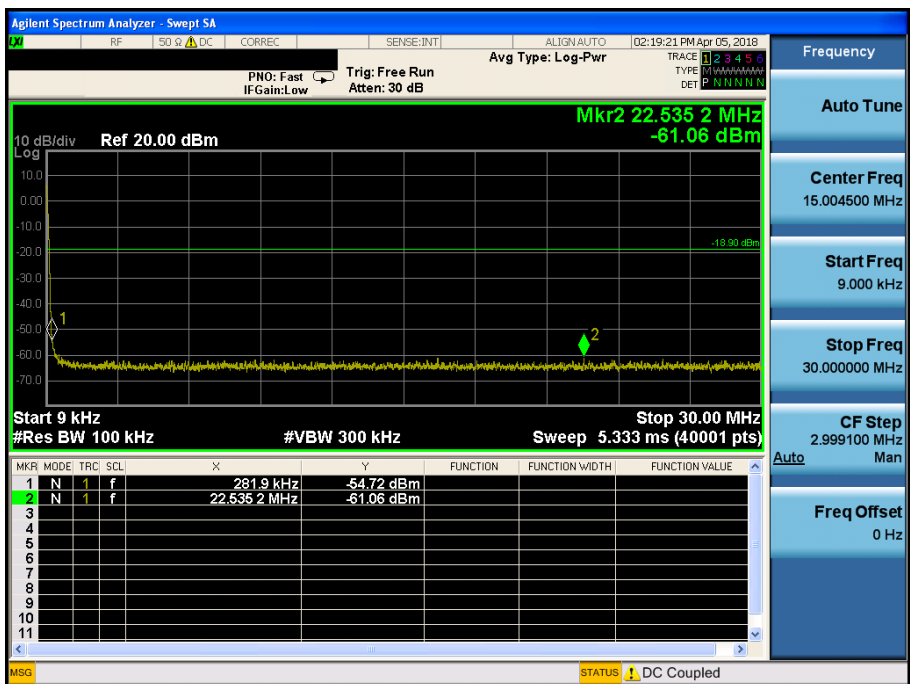


TM 9 & ANT 2 & Middle

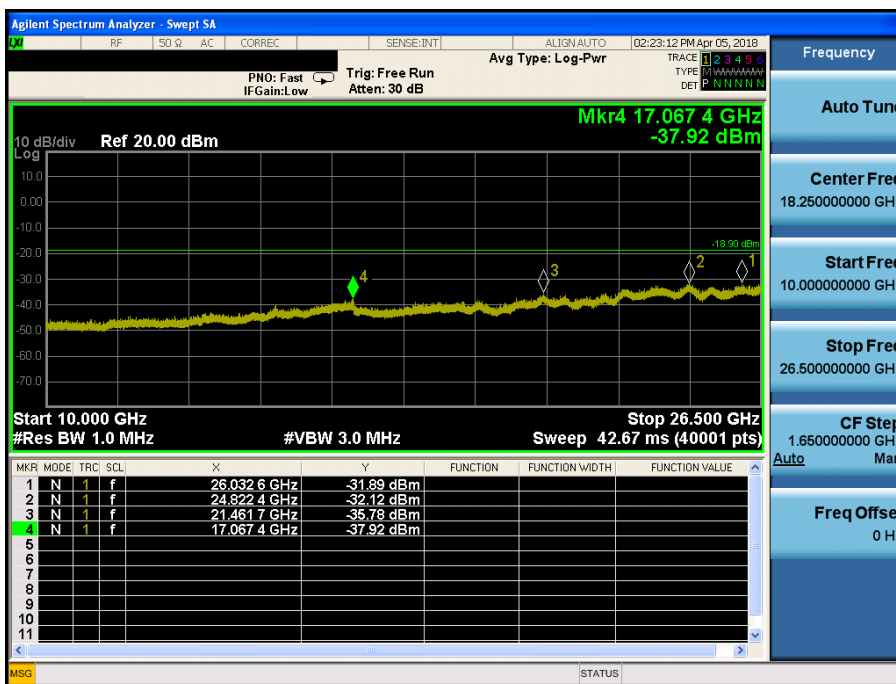
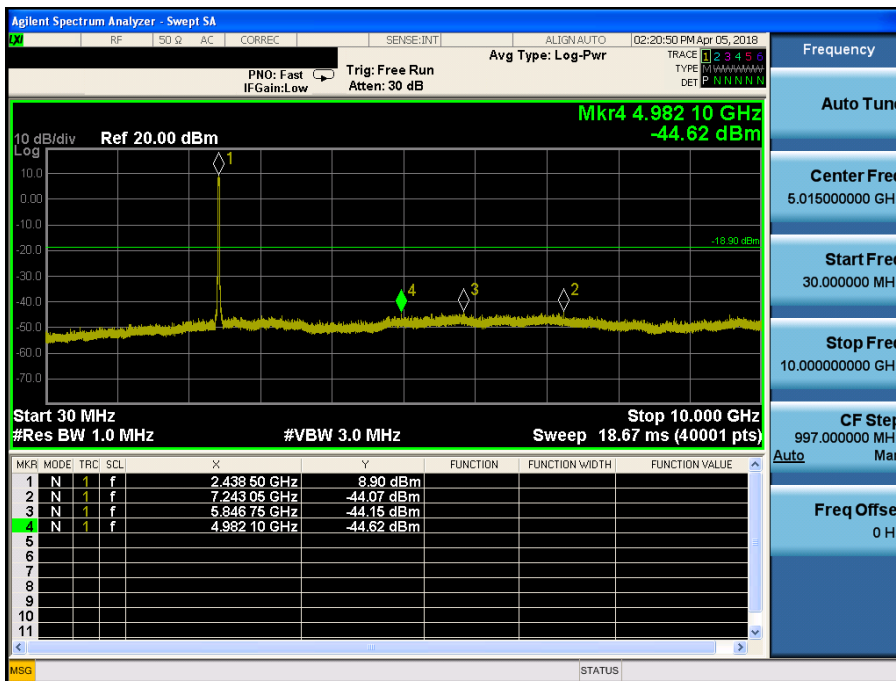
Reference



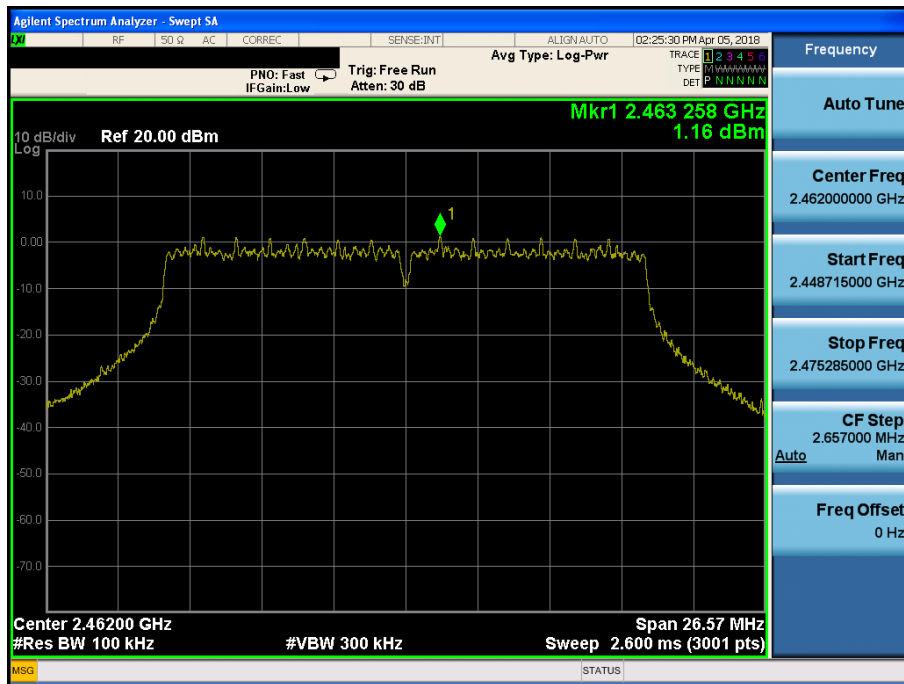
Conducted Spurious Emissions



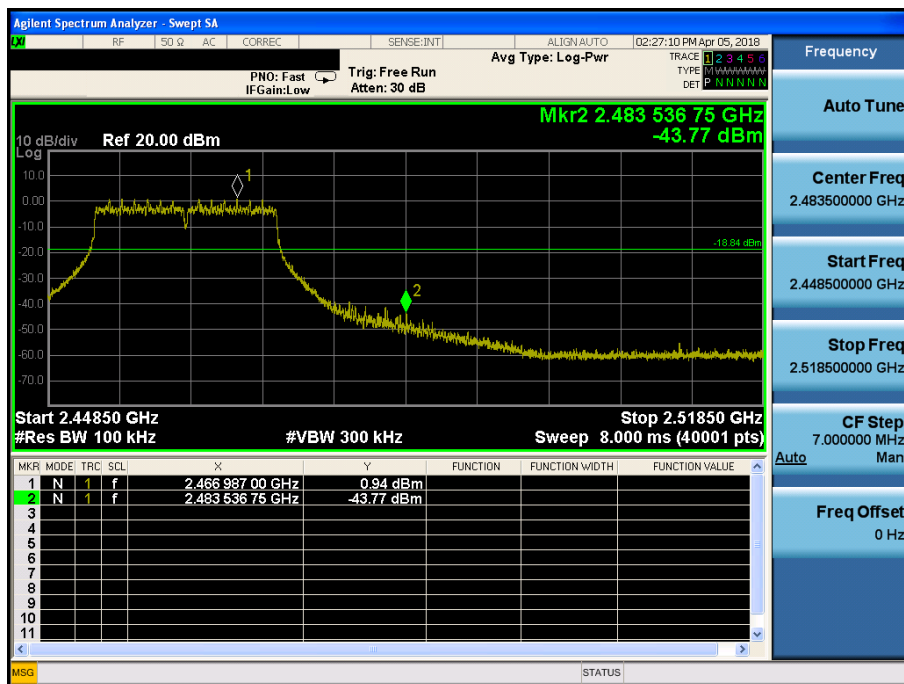
Conducted Spurious Emissions



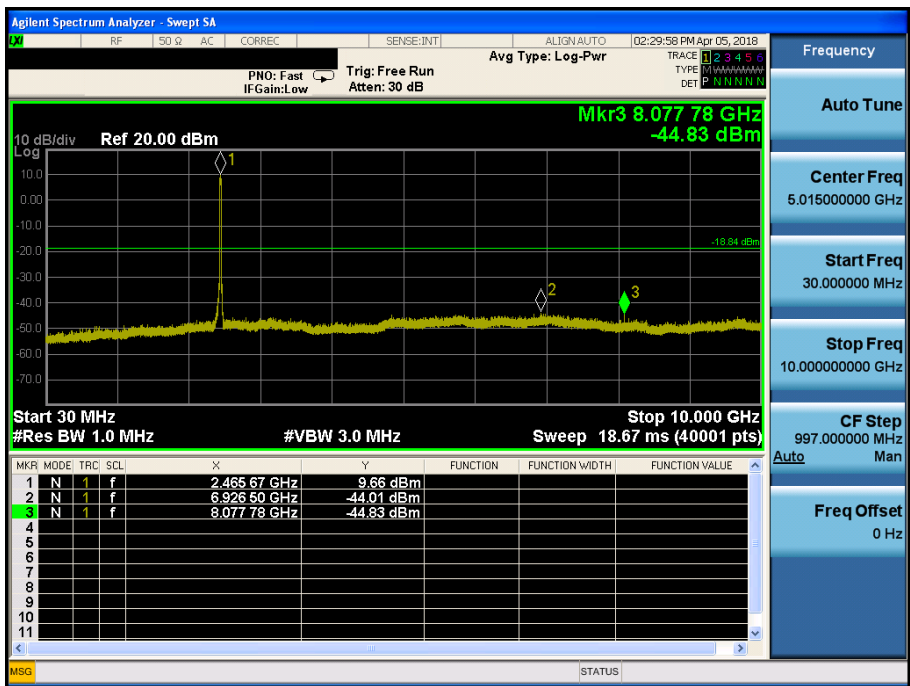
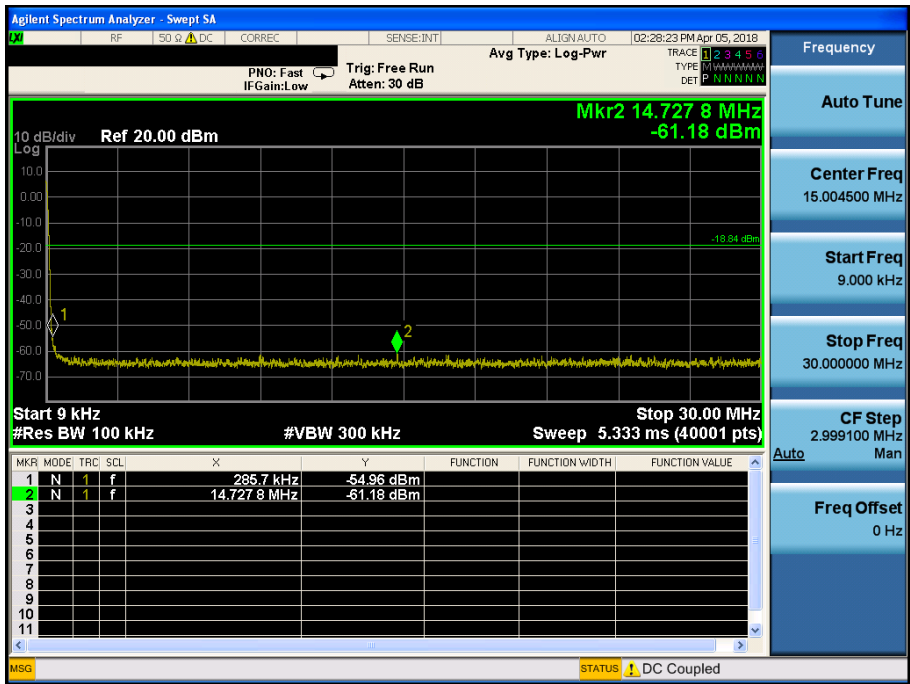
TM 9 & ANT 2 & Highest Reference



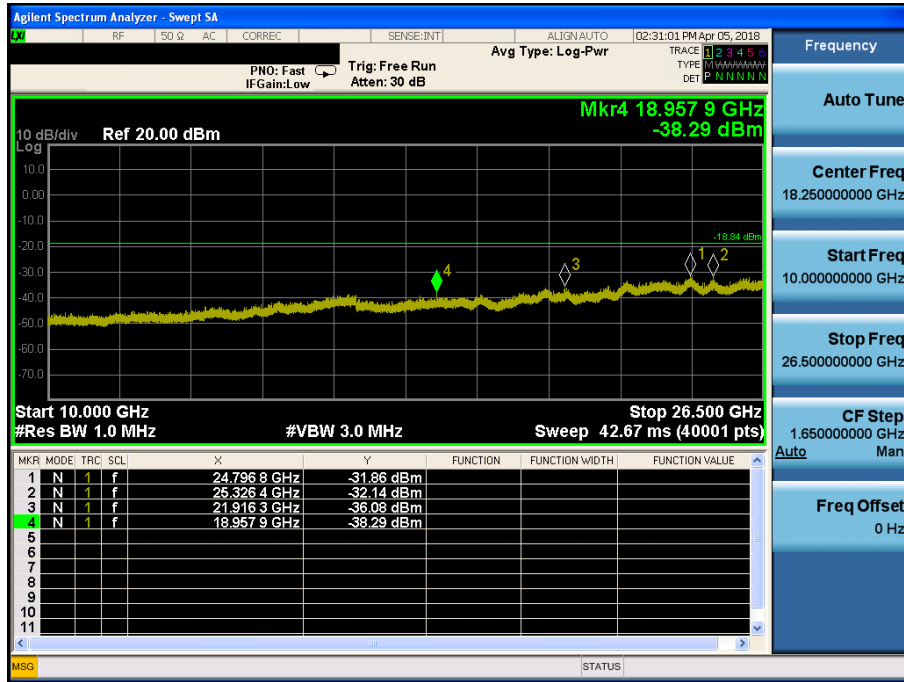
High Band-edge



Conducted Spurious Emissions



Conducted Spurious Emissions



8.5 Radiated spurious emissions

■ Test Requirements and limit, §15.247(d), §15.205, §15.209

In any 100 kHz bandwidth outside the operating frequency band, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 KHz bandwidth within the band. In case the emission fall within the restricted band specified on 15.205(a) and (b), then the 15.209(a) limit in the table below has to be followed.

▪ 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

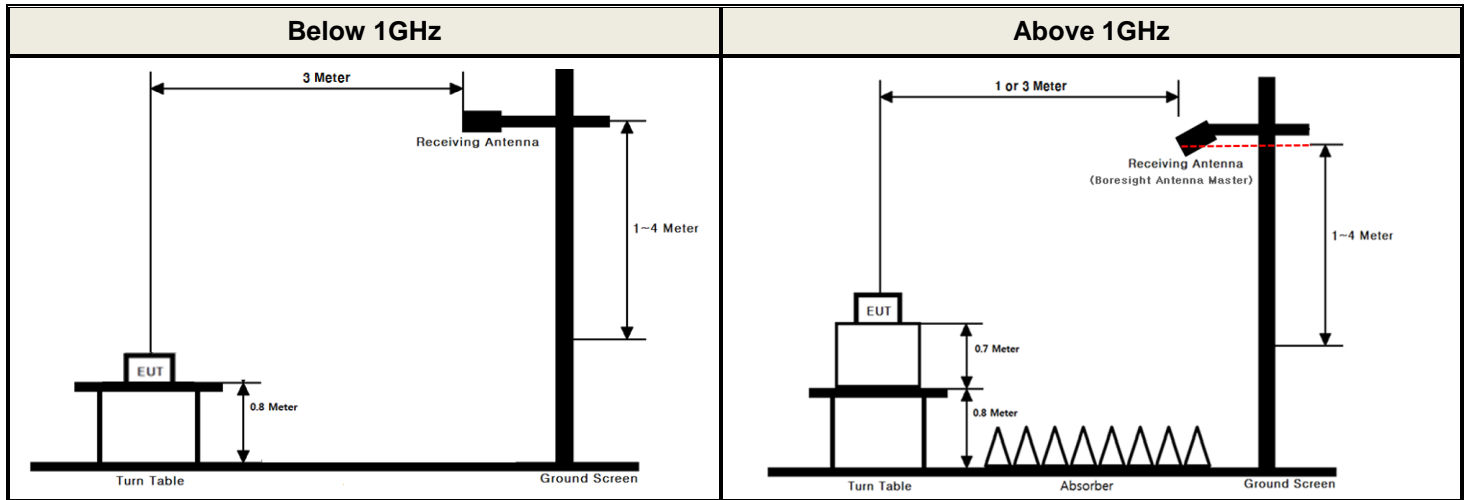
** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, 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 ~ 12.52025	149.9 ~ 150.05	1645.5 ~ 1646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.57675 ~ 12.57725	156.52475 ~	1660 ~ 1710	8.025 ~ 8.5	22.01 ~ 23.12
4.17725 ~ 4.17775	13.36 ~ 13.41	156.52525	1718.8 ~ 1722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.20725 ~ 4.20775	16.42 ~ 16.423	156.7 ~ 156.9	2200 ~ 2300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	16.69475 ~ 16.69525	162.0125 ~ 167.17	2310 ~ 2390	10.6 ~ 12.7	36.43 ~ 36.5
6.26775 ~ 6.26825	16.80425 ~ 16.80475	167.72 ~ 173.2	2483.5 ~ 2500	13.25 ~ 13.4	Above 38.6
6.31175 ~ 6.31225	25.5 ~ 25.67	240 ~ 285	2655 ~ 2900		
8.291 ~ 8.294	37.5 ~ 38.25	322 ~ 335.4	3260 ~ 3267		
8.362 ~ 8.366	73 ~ 74.6	399.90 ~ 410	3332 ~ 3339		
8.37625 ~ 8.38675	74.8 ~ 75.2	608 ~ 614	3345.8 ~ 3358		
		960 ~ 1240	3600 ~ 4400		

▪ **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.

■ **Test Configuration**



■ **Test Procedure**

1. The EUT is placed on a non-conductive table, emission measurements at below 1 GHz, the table height is 80 cm and above 1 GHz, the table height is 1.5 m.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 1 or 3 m away from the receiving antenna, which is varied from 1 m 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.

■ Measurement Instrument Setting for Radiated Emission Measurements.

The radiated emission was tested according to the section 6.3, 6.4, 6.5 and 6.6 of the ANSI C63.10-2013 with following settings.

Peak Measurement

RBW = As specified in below table, VBW $\geq 3 \times$ RBW, Sweep = Auto, Detector = Peak, Trace mode = Max Hold until the trace stabilizes.

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

Average Measurement:

1. RBW = 1 MHz (unless otherwise specified).
2. VBW $\geq 3 \times$ RBW.
3. Detector = RMS (Number of points $\geq 2 \times$ Span / RBW)
4. Averaging type = power. (i.e., RMS)
5. Sweep time = auto.
6. Perform a trace average of at least 100 traces.
7. 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:
 - 1) If power averaging (RMS) mode was used in step 4, then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
 - 2) If linear voltage averaging mode was used in step 4, then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

Duty Cycle Correction factor

Test Mode	Date rate	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
TM 1	5.5 Mbps	98.70	0.06
TM 2	36 Mbps	-	-
TM 3	MCS 6	-	-
TM 4	NSS1 MCS 4	-	-
TM 5	36 Mbps	90.48	0.44
TM 6	MCS 6	87.04	0.61
TM 7	NSS1 MCS 4	90.60	0.43
TM 8	MCS 14	79.61	1.00
TM 9	NSS2 MCS 4	84.45	0.74

Note: Please refer to the test report of the granted module.

■ Test Results: **Comply**

Please refer to next page for data table and the appendix I for worst data plots.

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 1 Normal

Tested Frequency	Frequency (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)
Lowest	2389.25	H	X	PK	52.87	2.69	N/A	N/A	55.56	74.00	18.44
	2389.44	H	X	AV	43.26	2.69	N/A	N/A	45.95	54.00	8.05
	4825.23	H	X	PK	50.26	1.49	N/A	N/A	51.75	74.00	22.25
	4825.36	H	X	AV	39.24	1.49	N/A	N/A	40.73	54.00	13.27
Middle	4873.46	H	X	PK	49.57	1.62	N/A	N/A	51.19	74.00	22.81
	4873.16	H	X	AV	39.01	1.62	N/A	N/A	40.63	54.00	13.37
Highest	2483.63	H	X	PK	52.49	3.10	N/A	N/A	55.59	74.00	18.41
	2483.69	H	X	AV	42.71	3.10	N/A	N/A	45.81	54.00	8.19
	4924.12	H	X	PK	49.93	1.78	N/A	N/A	51.71	74.00	22.29
	4924.16	H	X	AV	38.93	1.78	N/A	N/A	40.71	54.00	13.29

Note.

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- This device was tested under Single transmitting (Ant 1 or 2) and the worst case data(Ant 1) are reported in the table above.
- Sample Calculation.

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
 DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Measurement Distance = 3 m for below 10 GHz, Measurement Distance = 1 m for above 10 GHz.
 Therefore Distance Correction Factor(DCF) : - 9.54 dB = $20 \cdot \log(1\text{m}/3\text{m})$

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 5 _ Normal

Tested Frequency	Frequency (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)
Lowest	2389.68	H	X	PK	57.36	2.69	N/A	N/A	60.05	74.00	13.95
	2389.92	H	X	AV	45.60	2.69	0.44	N/A	48.73	54.00	5.27
	4822.86	H	X	PK	51.15	1.49	N/A	N/A	52.64	74.00	21.36
	4822.96	H	X	AV	39.18	1.49	0.44	N/A	41.11	54.00	12.89
Middle	4873.98	H	X	PK	49.56	1.62	N/A	N/A	51.18	74.00	22.82
	4874.35	H	X	AV	39.12	1.62	0.44	N/A	41.18	54.00	12.82
Highest	2483.75	H	X	PK	59.47	3.10	N/A	N/A	62.57	74.00	11.43
	2483.61	H	X	AV	46.38	3.10	0.44	N/A	49.92	54.00	4.08
	4923.11	H	X	PK	49.82	1.78	N/A	N/A	51.60	74.00	22.40
	4923.67	H	X	AV	38.97	1.78	0.44	N/A	41.19	54.00	12.81

Note.

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- This device was tested under MIMO Multiple transmitting (Ant 1, 2) and the worst case data are reported in the table above.
- Sample Calculation.

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
 DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Measurement Distance = 3 m for below 10 GHz, Measurement Distance = 1 m for above 10 GHz.
 Therefore Distance Correction Factor(DCF) : $- 9.54 \text{ dB} = 20 \cdot \log(1\text{m}/3\text{m})$

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 6 _ Normal

Tested Frequency	Frequency (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)
Lowest	2389.14	H	X	PK	56.01	2.69	N/A	N/A	58.70	74.00	15.30
	2389.53	H	X	AV	44.27	2.69	0.61	N/A	47.57	54.00	6.43
	4824.60	H	X	PK	49.40	1.49	N/A	N/A	50.89	74.00	23.11
	4824.65	H	X	AV	39.00	1.49	0.61	N/A	41.10	54.00	12.90
Middle	4875.00	H	X	PK	50.38	1.62	N/A	N/A	52.00	74.00	22.00
	4874.85	H	X	AV	39.22	1.62	0.61	N/A	41.45	54.00	12.55
Highest	2483.64	H	X	PK	58.11	3.10	N/A	N/A	61.21	74.00	12.79
	2483.56	H	X	AV	46.10	3.10	0.61	N/A	49.81	54.00	4.19
	4924.12	H	X	PK	48.83	1.78	N/A	N/A	50.61	74.00	23.39
	4924.11	H	X	AV	38.70	1.78	0.61	N/A	41.09	54.00	12.91

Note.

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- This device was tested under MIMO Multiple transmitting (Ant 1, 2) and the worst case data are reported in the table above.
- Sample Calculation.

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
 DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Measurement Distance = 3 m for below 10 GHz, Measurement Distance = 1 m for above 10 GHz.
 Therefore Distance Correction Factor(DCF) : $- 9.54 \text{ dB} = 20 \cdot \log(1\text{m}/3\text{m})$

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 7 _ Normal

Tested Frequency	Frequency (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)
Lowest	2389.91	H	X	PK	59.15	2.69	N/A	N/A	61.84	74.00	12.16
	2389.85	H	X	AV	46.22	2.69	0.43	N/A	49.34	54.00	4.66
	4822.97	H	X	PK	49.85	1.49	N/A	N/A	51.34	74.00	22.66
	4823.17	H	X	AV	39.27	1.49	0.43	N/A	41.19	54.00	12.81
Middle	4873.16	H	X	PK	49.77	1.62	N/A	N/A	51.39	74.00	22.61
	4873.41	H	X	AV	39.13	1.62	0.43	N/A	41.18	54.00	12.82
Highest	2484.04	H	X	PK	60.36	3.10	N/A	N/A	63.46	74.00	10.54
	2483.69	H	X	AV	47.15	3.10	0.43	N/A	50.68	54.00	3.32
	4924.63	H	X	PK	49.76	1.78	N/A	N/A	51.54	74.00	22.46
	4925.19	H	X	AV	38.86	1.78	0.43	N/A	41.07	54.00	12.93

Note.

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- This device was tested under MIMO Multiple transmitting (Ant 1, 2) and the worst case data are reported in the table above.
- Sample Calculation.

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
 DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Measurement Distance = 3 m for below 10 GHz, Measurement Distance = 1 m for above 10 GHz.
 Therefore Distance Correction Factor(DCF) : $- 9.54 \text{ dB} = 20 \cdot \log(1\text{m}/3\text{m})$

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 8 _ Normal

Tested Frequency	Frequency (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)
Lowest	2389.50	H	X	PK	57.34	2.69	N/A	N/A	60.03	74.00	13.97
	2389.93	H	X	AV	44.37	2.69	1.00	N/A	48.06	54.00	5.94
	4824.33	H	X	PK	49.64	1.49	N/A	N/A	51.13	74.00	22.87
	4824.69	H	X	AV	39.24	1.49	1.00	N/A	41.73	54.00	12.27
Middle	4873.61	H	X	PK	50.13	1.62	N/A	N/A	51.75	74.00	22.25
	4873.96	H	X	AV	39.01	1.62	1.00	N/A	41.63	54.00	12.37
Highest	2483.54	H	X	PK	55.75	3.10	N/A	N/A	58.85	74.00	15.15
	2483.71	H	X	AV	44.96	3.10	1.00	N/A	49.06	54.00	4.94
	4925.21	H	X	PK	49.10	1.78	N/A	N/A	50.88	74.00	23.12
	4924.99	H	X	AV	38.77	1.78	1.00	N/A	41.55	54.00	12.45

Note.

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- This device was tested under MIMO Multiple transmitting (Ant 1, 2) and the worst case data are reported in the table above.
- Sample Calculation.

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
 DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Measurement Distance = 3 m for below 10 GHz, Measurement Distance = 1 m for above 10 GHz.
 Therefore Distance Correction Factor(DCF) : $- 9.54 \text{ dB} = 20 \cdot \log(1\text{m}/3\text{m})$

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 9 _ Normal

Tested Frequency	Frequency (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)
Lowest	2389.79	H	X	PK	60.48	2.69	N/A	N/A	63.17	74.00	10.83
	2389.85	H	X	AV	45.69	2.69	0.74	N/A	49.12	54.00	4.88
	4824.93	H	X	PK	49.52	1.49	N/A	N/A	51.01	74.00	22.99
	4825.17	H	X	AV	39.19	1.49	0.74	N/A	41.42	54.00	12.58
Middle	4874.95	H	X	PK	49.12	1.62	N/A	N/A	50.74	74.00	23.26
	4874.93	H	X	AV	39.01	1.62	0.74	N/A	41.37	54.00	12.63
Highest	2483.80	H	X	PK	60.54	3.10	N/A	N/A	63.64	74.00	10.36
	2483.67	H	X	AV	47.06	3.10	0.74	N/A	50.90	54.00	3.10
	4923.41	H	X	PK	49.07	1.78	N/A	N/A	50.85	74.00	23.15
	4923.34	H	X	AV	38.66	1.78	0.74	N/A	41.18	54.00	12.82

Note.

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- This device was tested under MIMO Multiple transmitting (Ant 1, 2) and the worst case data are reported in the table above.
- Sample Calculation.

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
 DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Measurement Distance = 3 m for below 10 GHz, Measurement Distance = 1 m for above 10 GHz.
 Therefore Distance Correction Factor(DCF) : $- 9.54 \text{ dB} = 20 \cdot \log(1\text{m}/3\text{m})$

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 1 _ Wireless Charging

Tested Frequency	Frequency (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)
Lowest	2389.79	H	X	PK	52.15	2.69	N/A	N/A	54.84	74.00	19.16
	2389.85	H	X	AV	43.02	2.69	N/A	N/A	45.71	54.00	8.29
	4823.01	H	X	PK	50.12	1.49	N/A	N/A	51.61	74.00	22.39
	4823.91	H	X	AV	39.26	1.49	N/A	N/A	40.75	54.00	13.25
Middle	4874.54	H	X	PK	49.48	1.62	N/A	N/A	51.10	74.00	22.90
	4874.62	H	X	AV	39.01	1.62	N/A	N/A	40.63	54.00	13.37
Highest	2484.17	H	X	PK	52.69	3.10	N/A	N/A	55.79	74.00	18.21
	2483.70	H	X	AV	42.91	3.10	N/A	N/A	46.01	54.00	7.99
	4923.98	H	X	PK	48.99	1.78	N/A	N/A	50.77	74.00	23.23
	4924.08	H	X	AV	38.70	1.78	N/A	N/A	40.48	54.00	13.52

Note.

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- This device was tested under Single transmitting (Ant 1 or 2) and the worst case data(Ant 1) are reported in the table above.
- Sample Calculation.

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
 DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Measurement Distance = 3 m for below 10 GHz, Measurement Distance = 1 m for above 10 GHz.
 Therefore Distance Correction Factor(DCF) : $- 9.54 \text{ dB} = 20 \cdot \log(1\text{m}/3\text{m})$

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 5 _ Wireless Charging

Tested Frequency	Frequency (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)
Lowest	2389.66	H	X	PK	54.49	2.69	N/A	N/A	57.18	74.00	16.82
	2389.99	H	X	AV	45.06	2.69	0.44	N/A	48.19	54.00	5.81
	4824.13	H	X	PK	49.61	1.49	N/A	N/A	51.10	74.00	22.90
	4823.94	H	X	AV	39.24	1.49	0.44	N/A	41.17	54.00	12.83
Middle	4875.07	H	X	PK	49.47	1.62	N/A	N/A	51.09	74.00	22.91
	4875.05	H	X	AV	39.10	1.62	0.44	N/A	41.16	54.00	12.84
Highest	2483.86	H	X	PK	57.56	3.10	N/A	N/A	60.66	74.00	13.34
	2483.71	H	X	AV	46.15	3.10	0.44	N/A	49.69	54.00	4.31
	4924.66	H	X	PK	50.03	1.78	N/A	N/A	51.81	74.00	22.19
	4924.22	H	X	AV	38.77	1.78	0.44	N/A	40.99	54.00	13.01

Note.

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- This device was tested under MIMO Multiple transmitting (Ant 1, 2) and the worst case data are reported in the table above.
- Sample Calculation.

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
 DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Measurement Distance = 3 m for below 10 GHz, Measurement Distance = 1 m for above 10 GHz.
 Therefore Distance Correction Factor(DCF) : $- 9.54 \text{ dB} = 20 \cdot \log(1\text{m}/3\text{m})$

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 6 _ Wireless Charging

Tested Frequency	Frequency (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)
Lowest	2389.98	H	X	PK	56.20	2.69	N/A	N/A	58.89	74.00	15.11
	2389.97	H	X	AV	44.35	2.69	0.61	N/A	47.65	54.00	6.35
	4822.74	H	X	PK	50.11	1.49	N/A	N/A	51.60	74.00	22.40
	4822.96	H	X	AV	39.79	1.49	0.61	N/A	41.89	54.00	12.11
Middle	4874.88	H	X	PK	49.37	1.62	N/A	N/A	50.99	74.00	23.01
	4875.07	H	X	AV	39.11	1.62	0.61	N/A	41.34	54.00	12.66
Highest	2483.87	H	X	PK	60.27	3.10	N/A	N/A	63.37	74.00	10.63
	2483.78	H	X	AV	46.36	3.10	0.61	N/A	50.07	54.00	3.93
	4923.69	H	X	PK	50.54	1.78	N/A	N/A	52.32	74.00	21.68
	4923.86	H	X	AV	38.86	1.78	0.61	N/A	41.25	54.00	12.75

Note.

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- This device was tested under MIMO Multiple transmitting (Ant 1, 2) and the worst case data are reported in the table above.
- Sample Calculation.

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
 DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Measurement Distance = 3 m for below 10 GHz, Measurement Distance = 1 m for above 10 GHz.
 Therefore Distance Correction Factor(DCF) : $- 9.54 \text{ dB} = 20 \cdot \log(1\text{m}/3\text{m})$

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 7 _ Wireless Charging

Tested Frequency	Frequency (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)
Lowest	2389.54	H	X	PK	58.79	2.69	N/A	N/A	61.48	74.00	12.52
	2389.85	H	X	AV	46.98	2.69	0.43	N/A	50.10	54.00	3.90
	4822.96	H	X	PK	50.22	1.49	N/A	N/A	51.71	74.00	22.29
	4823.66	H	X	AV	39.41	1.49	0.43	N/A	41.33	54.00	12.67
Middle	4874.75	H	X	PK	49.28	1.62	N/A	N/A	50.90	74.00	23.10
	4874.42	H	X	AV	39.03	1.62	0.43	N/A	41.08	54.00	12.92
Highest	2483.68	H	X	PK	60.44	3.10	N/A	N/A	63.54	74.00	10.46
	2483.66	H	X	AV	47.10	3.10	0.43	N/A	50.63	54.00	3.37
	4924.44	H	X	PK	48.76	1.78	N/A	N/A	50.54	74.00	23.46
	4924.24	H	X	AV	38.93	1.78	0.43	N/A	41.14	54.00	12.86

Note.

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- This device was tested under MIMO Multiple transmitting (Ant 1, 2) and the worst case data are reported in the table above.
- Sample Calculation.

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
 DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Measurement Distance = 3 m for below 10 GHz, Measurement Distance = 1 m for above 10 GHz.
 Therefore Distance Correction Factor(DCF) : $- 9.54 \text{ dB} = 20 \cdot \log(1\text{m}/3\text{m})$

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 8 _ Wireless Charging

Tested Frequency	Frequency (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)
Lowest	2389.91	H	X	PK	55.08	2.69	N/A	N/A	57.77	74.00	16.23
	2389.85	H	X	AV	43.74	2.69	1.00	N/A	47.43	54.00	6.57
	4823.88	H	X	PK	49.74	1.49	N/A	N/A	51.23	74.00	22.77
	4823.64	H	X	AV	39.32	1.49	1.00	N/A	41.81	54.00	12.19
Middle	4873.31	H	X	PK	51.00	1.62	N/A	N/A	52.62	74.00	21.38
	4873.60	H	X	AV	39.11	1.62	1.00	N/A	41.73	54.00	12.27
Highest	2483.79	H	X	PK	56.50	3.10	N/A	N/A	59.60	74.00	14.40
	2483.74	H	X	AV	44.63	3.10	1.00	N/A	48.73	54.00	5.27
	4923.20	H	X	PK	49.93	1.78	N/A	N/A	51.71	74.00	22.29
	4923.37	H	X	AV	38.87	1.78	1.00	N/A	41.65	54.00	12.35

Note.

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- This device was tested under MIMO Multiple transmitting (Ant 1, 2) and the worst case data are reported in the table above.
- Sample Calculation.

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
 DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Measurement Distance = 3 m for below 10 GHz, Measurement Distance = 1 m for above 10 GHz.
 Therefore Distance Correction Factor(DCF) : $- 9.54 \text{ dB} = 20 \cdot \log(1\text{m}/3\text{m})$

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 9 _ Wireless Charging

Tested Frequency	Frequency (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)
Lowest	2389.79	H	X	PK	57.25	2.69	N/A	N/A	59.94	74.00	14.06
	2389.99	H	X	AV	45.98	2.69	0.74	N/A	49.41	54.00	4.59
	4823.97	H	X	PK	50.69	1.49	N/A	N/A	52.18	74.00	21.82
	4823.88	H	X	AV	39.48	1.49	0.74	N/A	41.71	54.00	12.29
Middle	4873.28	H	X	PK	49.09	1.62	N/A	N/A	50.71	74.00	23.29
	4874.17	H	X	AV	39.12	1.62	0.74	N/A	41.48	54.00	12.52
Highest	2483.92	H	X	PK	59.93	3.10	N/A	N/A	63.03	74.00	10.97
	2483.82	H	X	AV	46.80	3.10	0.74	N/A	50.64	54.00	3.36
	4923.52	H	X	PK	50.63	1.78	N/A	N/A	52.41	74.00	21.59
	4923.80	H	X	AV	38.79	1.78	0.74	N/A	41.31	54.00	12.69

Note.

- The radiated emissions were investigated up to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- This device was tested under MIMO Multiple transmitting (Ant 1, 2) and the worst case data are reported in the table above.
- Sample Calculation.

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} + \text{DCCF} + \text{DCF} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$
 Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain,
 DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor
- Measurement Distance = 3 m for below 10 GHz, Measurement Distance = 1 m for above 10 GHz.
 Therefore Distance Correction Factor(DCF) : $- 9.54 \text{ dB} = 20 \cdot \log(1\text{m}/3\text{m})$

8.6 Power-line conducted emissions

■ Test Requirements and limit, §15.207

For an intentional radiator which 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 uH/50 ohm line impedance stabilization network(LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

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 Procedure

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to the test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

■ Test Results: **Comply**(Refer to next page.)

The worst data was reported.

RESULT PLOTS

AC Line Conducted Emissions (Graph)

TM 5 & Middle

Results of Conducted Emission

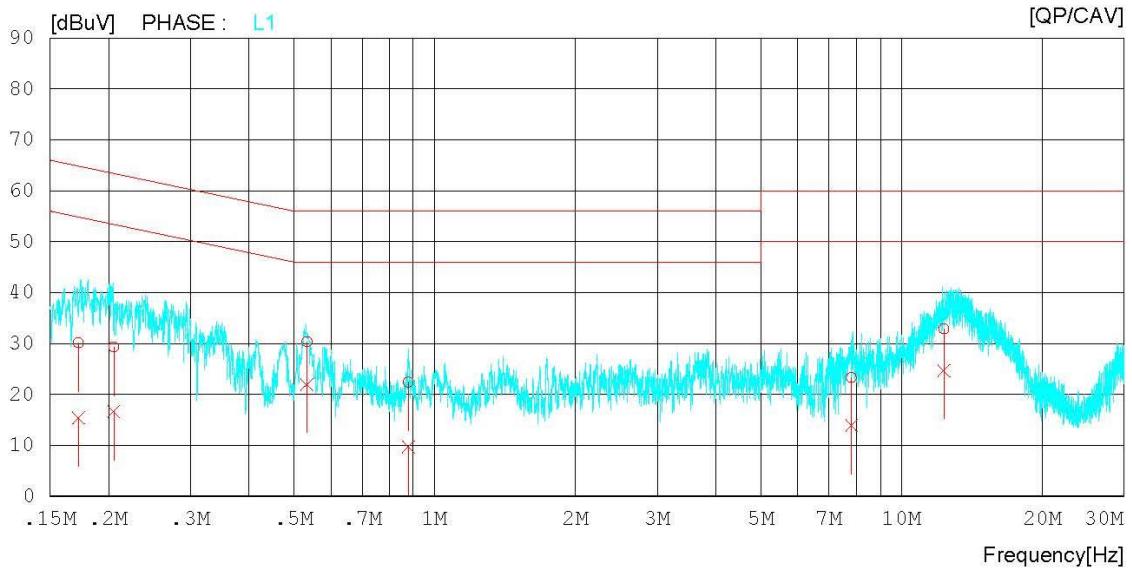
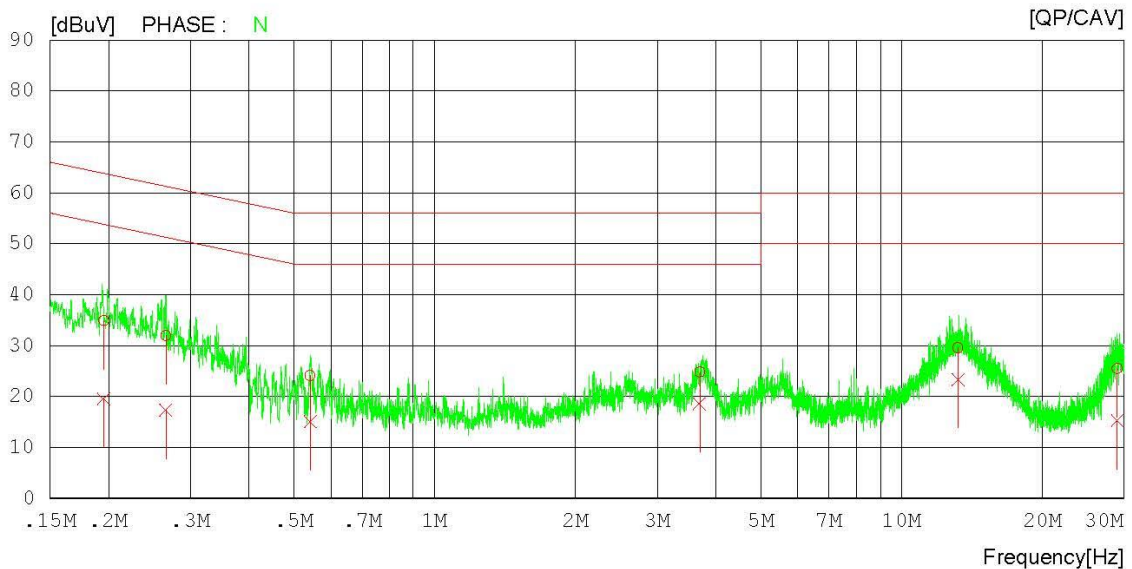
DTNC

Date 2018-04-06

Model LM-V350EM
 Power Supply 120 V 60 Hz
 Temp/Humi 22 °C 44 % R.H.
 Test Condition 2.4GHz

Memo

LIMIT : CISPR_Class B_QP
 CISPR_Class B_AV



AC Line Conducted Emissions (List)

TM 5 & Middle

Results of Conducted Emission

DTNC

Date 2018-04-06

Model LM-V350EM
 Power Supply 120 V 60 Hz
 Temp/Humi 22 °C 44 % R.H.
 Test Condition 2.4GHz

Memo

LIMIT : CISPR_Class B_QP
 CISPR_Class B_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	0.19550	25.04	9.71	9.82	34.86	19.53	63.80	53.80	28.94	34.27	N
2	0.26541	22.10	7.46	9.84	31.94	17.30	61.26	51.26	29.32	33.96	N
3	0.54102	14.33	5.24	9.82	24.15	15.06	56.00	46.00	31.85	30.94	N
4	3.69480	14.91	8.73	9.82	24.73	18.55	56.00	46.00	31.27	27.45	N
5	13.22340	19.74	13.41	9.88	29.62	23.29	60.00	50.00	30.38	26.71	N
6	29.00140	15.54	5.39	9.88	25.42	15.27	60.00	50.00	34.58	34.73	N
7	0.17260	20.35	5.68	9.68	30.03	15.36	64.83	54.83	34.80	39.47	L1
8	0.20533	19.43	6.75	9.83	29.26	16.58	63.39	53.39	34.13	36.81	L1
9	0.53238	20.45	12.10	9.79	30.24	21.89	56.00	46.00	25.76	24.11	L1
10	0.87749	12.56	-0.15	9.80	22.36	9.65	56.00	46.00	33.64	36.35	L1
11	7.81260	13.47	4.12	9.79	23.26	13.91	60.00	50.00	36.74	36.09	L1
12	12.32340	22.98	14.84	9.83	32.81	24.67	60.00	50.00	27.19	25.33	L1

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	17/07/12	18/07/12	MY46471601
Spectrum Analyzer	Agilent Technologies	N9020A	18/01/03	19/01/03	MY48011700
DC Power Supply	Agilent	66332A	17/09/05	18/09/05	MY43000719
Multimeter	FLUKE	17B	17/12/26	18/12/26	26030065WS
Thermohygrometer	BODYCOM	BJ5478	17/09/11	18/09/11	N/A
Thermohygrometer	BODYCOM	BJ5478	18/01/03	19/01/03	120612-2
50W 10dB ATT	SMAJK	SMAJK-50-10	17/09/06	18/09/06	2-50-10
Signal Generator	Rohde Schwarz	SMBV100A	17/12/27	18/12/27	255571
Signal Generator	Rohde Schwarz	SMF100A	17/12/27	18/12/27	102341
Attenuator	SMAJK	SMAJK-2-3	17/09/06	18/09/06	3
Attenuator	Aeroflex/Weinschel	56-3	17/12/27	18/12/27	Y2370
Attenuator	SRTechnology	F01-B0606-01	17/09/07	18/09/07	13092403
Attenuator	Hefei Shunze	SS5T2.92-10-40	17/12/27	18/12/27	16012202
Loop Antenna	ETS	6502	17/03/24	19/03/24	3471
BILOG ANTENNA	Schwarzbeck	VULB 9160	17/04/14	19/04/14	9160-3339
Horn Antenna	ETS-Lindgren	3115	17/01/13	19/01/13	9202-3820
Horn Antenna	Schwarzbeck	BBHA 9120C	17/12/04	19/12/04	9120C-561
Horn Antenna	A.H.Systems Inc.	SAS-574	17/07/31	19/07/31	155
PreAmplifier	tsj	MLA-100K01-B01-26	18/02/19	19/02/19	1252741
PreAmplifier	tsj	MLA-0118-J01-45	18/02/08	19/02/08	17138
PreAmplifier	tsj	MLA-1840-J02-45	17/10/26	18/10/26	16966-10728
EMI Test Receiver	Rohde Schwarz	ESR7	17/07/06	18/07/06	100469
EMI Test Receiver	Rohde Schwarz	ESR7	18/02/13	19/02/13	101061
High Pass Filter	Wainwright Instruments	WHKX12-935-1000-15000-40SS	17/09/05	18/09/05	8
High Pass Filter	Wainwright Instruments	WHKX10-2838-3300-18000-60SS	17/09/06	18/09/06	1
High Pass Filter	Wainwright Instruments	WHNX8.0/26.5-6SS	17/12/26	18/12/26	3
Power Meter & Wide Bandwidth Sensor	Anritsu	ML2496A MA2411B	17/12/27	18/12/27	1338004 1306053
PULSE LIMITER	Rohde Schwarz	ESH3-Z2	17/09/29	18/09/29	101333
LISN	SCHWARZBECK	NNLK 8121	18/03/20	19/03/20	06183
Cable	Radiall	TESTPRO3	N/A	N/A	RF-45
Cable	DT&C	CABLE	N/A	N/A	RF-68
Cable	DT&C	CABLE	N/A	N/A	RF-71
Cable	DT&C	CABLE	N/A	N/A	P-IN
Cable	DT&C	CABLE	N/A	N/A	RF-82
Cable	JUNFLON	MWX315	N/A	N/A	J12J101978-00
Cable	Fairview Microwave	FM-F141	N/A	N/A	17050010
Cable	Fairview Microwave	FM-F141	N/A	N/A	17050011
Cable	Fairview Microwave	FM-F141	N/A	N/A	17050012
Cable	Radiall	TESTPRO3	N/A	N/A	RF-74
Cable	Radiall	TESTPRO3	N/A	N/A	RF-66

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

APPENDIX I

Duty cycle plots

▪ Test Procedure

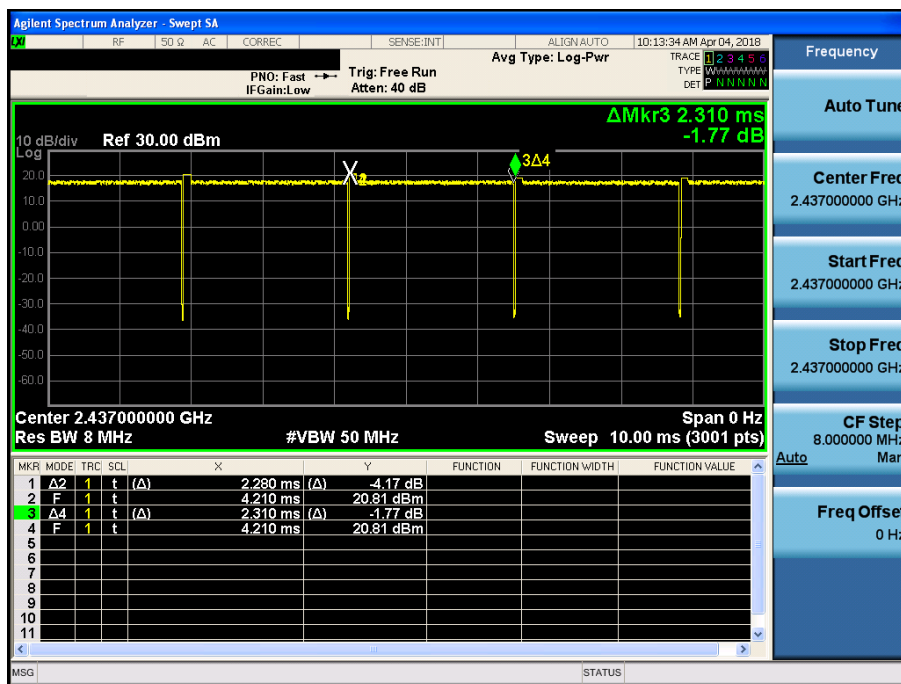
Duty Cycle was measured using **section 6.0 b) of KDB558074 D01V04** :

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ 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.)

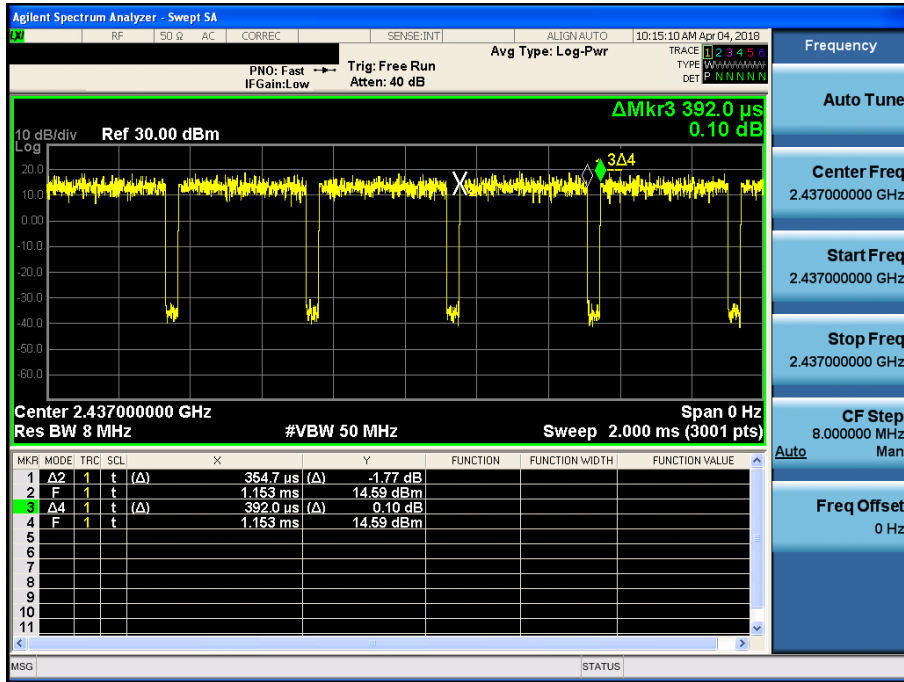
Duty Cycle

TM 1 & ANT 1 & Middle



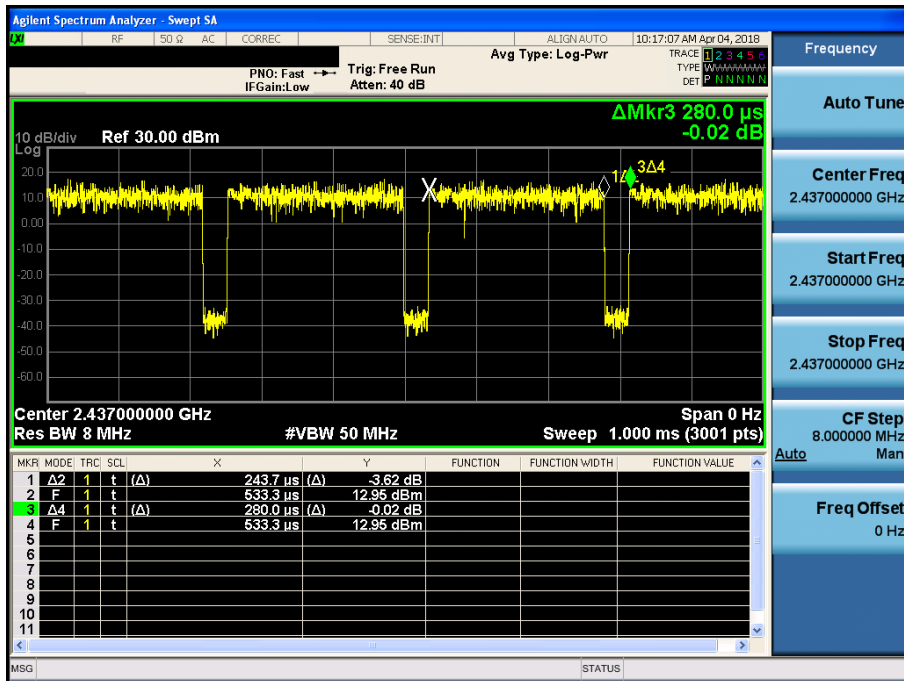
Duty Cycle

TM 5 & ANT 1 & Middle



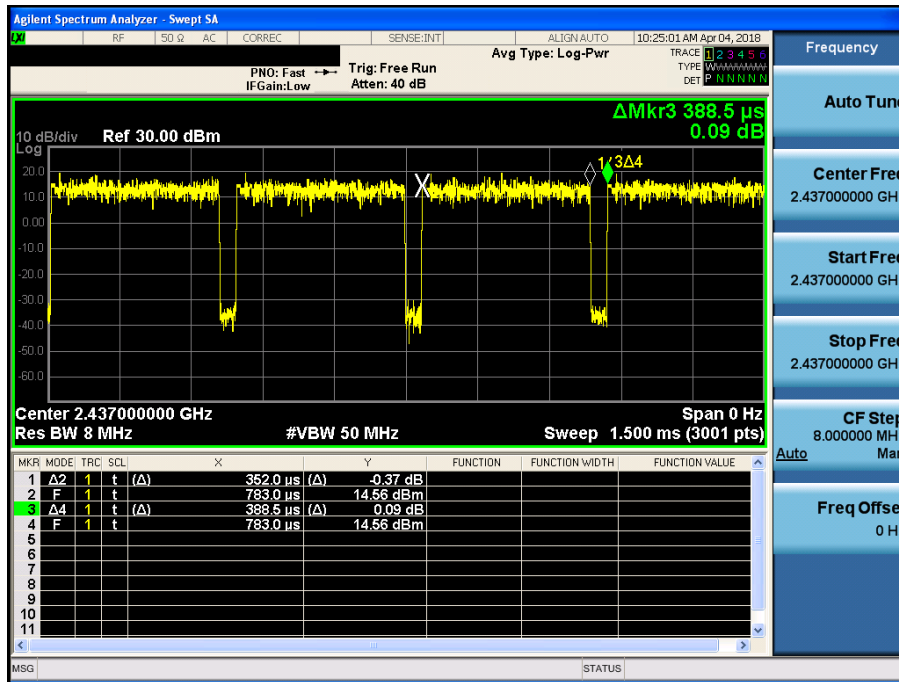
Duty Cycle

TM 6 & ANT 1 & Middle



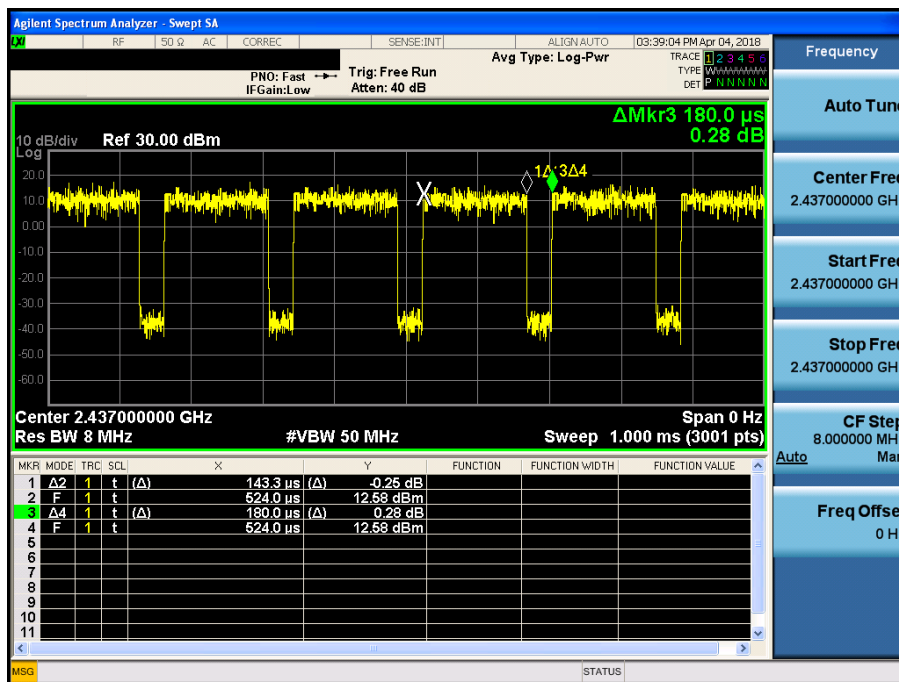
Duty Cycle

TM 7 & ANT 1 & Middle



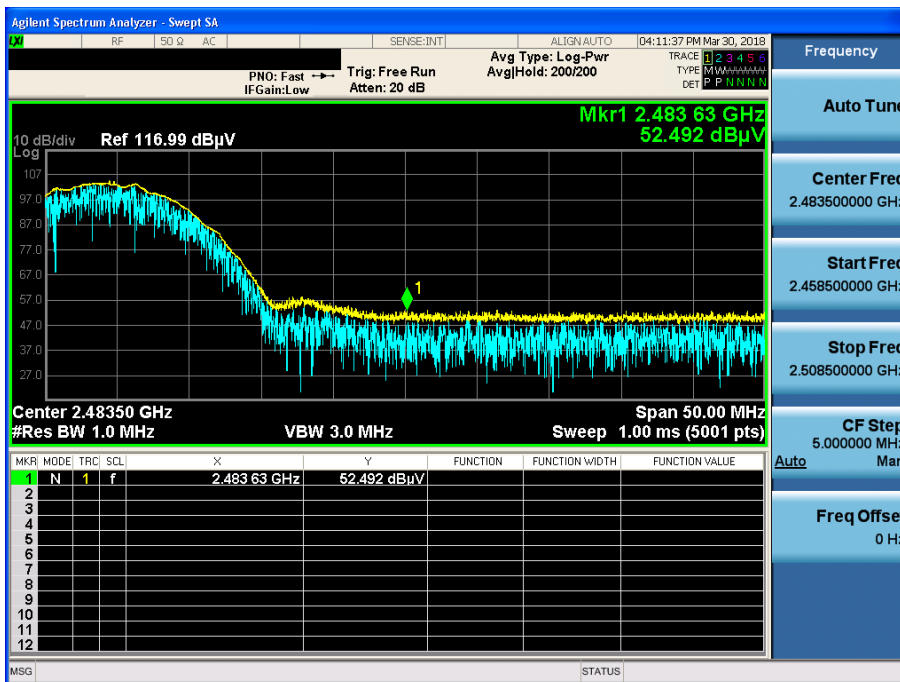
Duty Cycle

TM 8 & ANT 1 & Middle



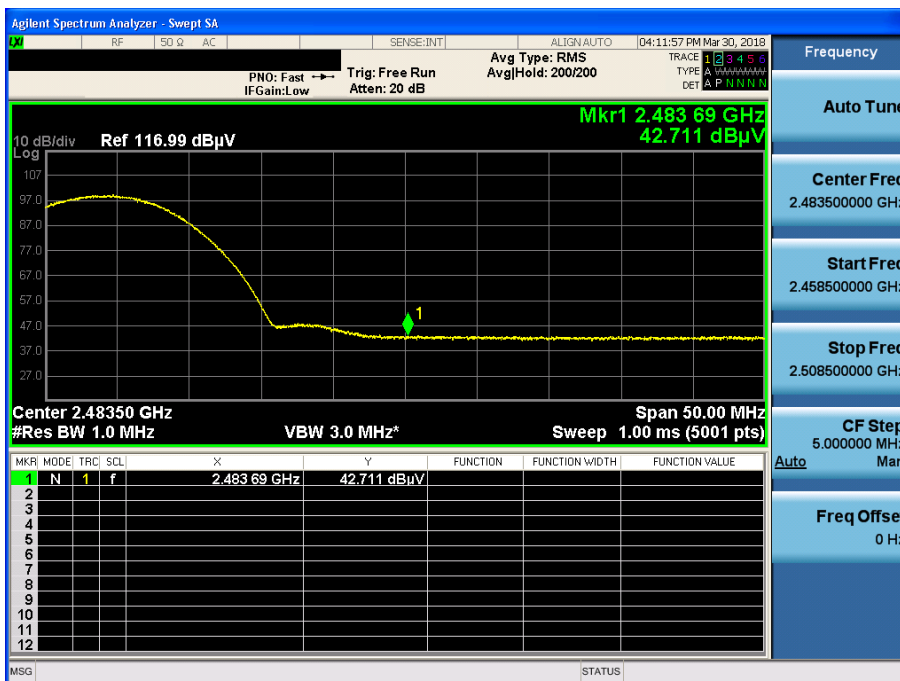
TM 1 & Highest & X axis & Hor

Detector Mode : PK



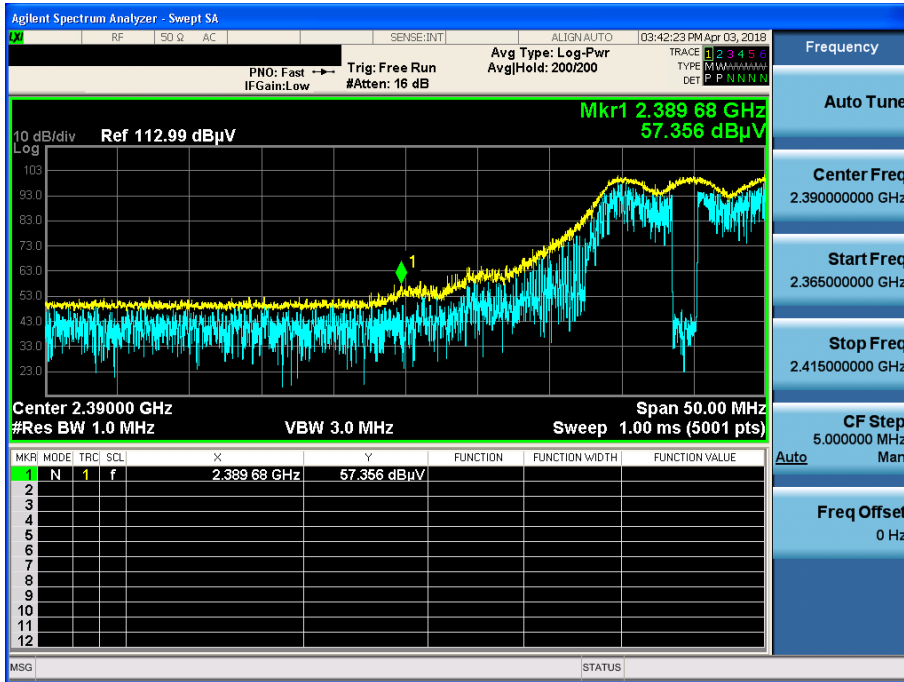
TM 1 & Highest & X axis & Hor

Detector Mode : AV



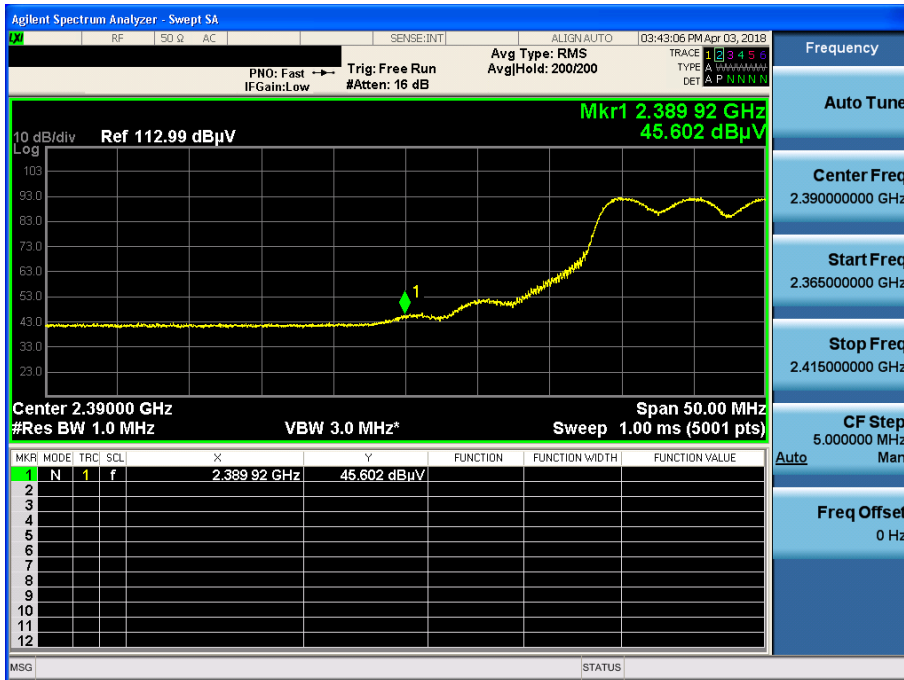
TM 5 & Lowest & X axis & Hor

Detector Mode : PK



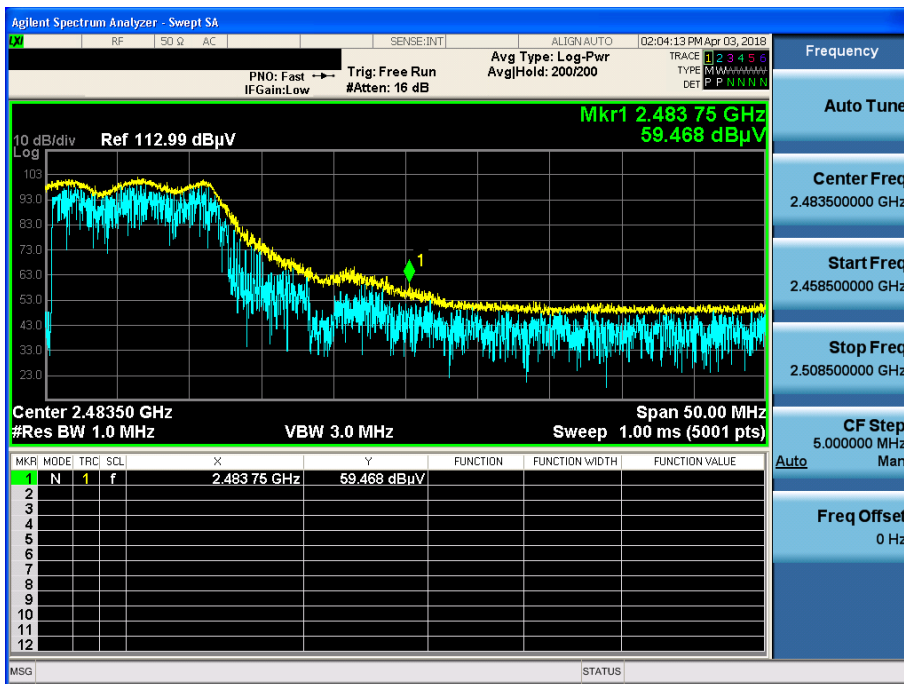
TM 5 & Lowest & X axis & Hor

Detector Mode : AV



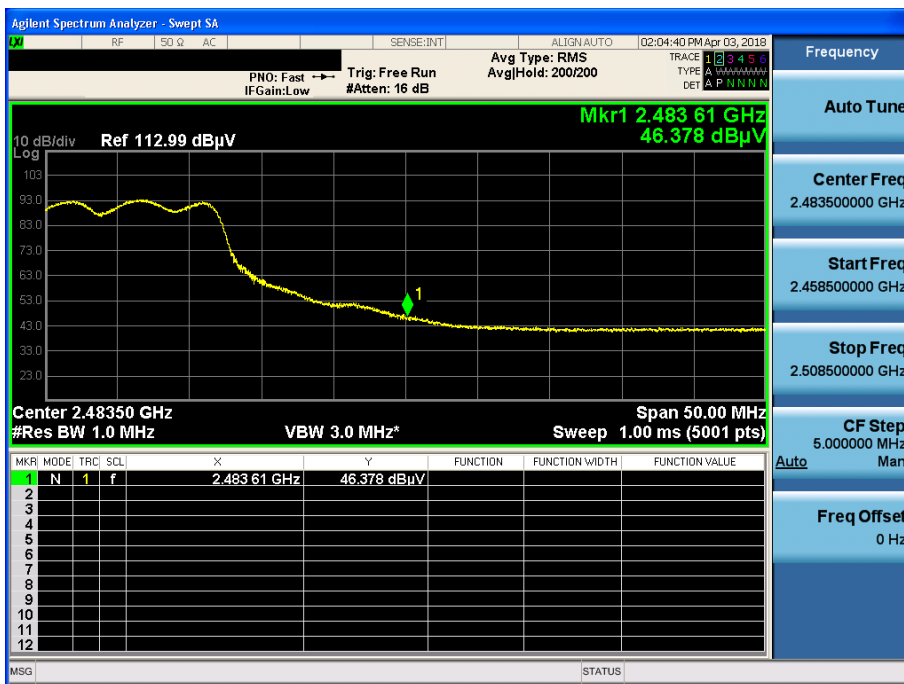
TM 5 & Highest & X axis & Hor

Detector Mode : PK



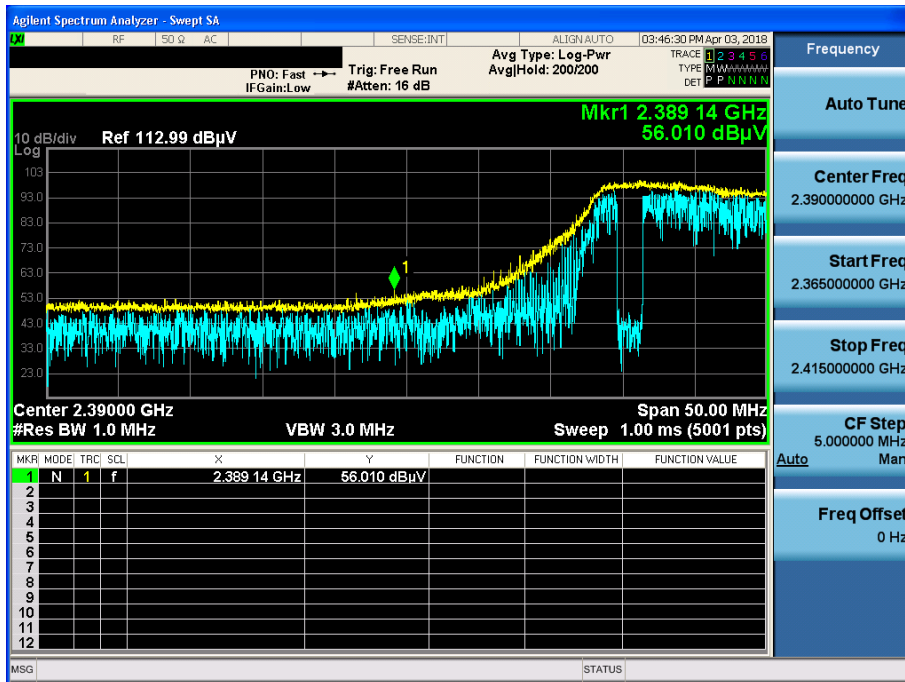
TM 5 & Highest & X axis & Hor

Detector Mode : AV



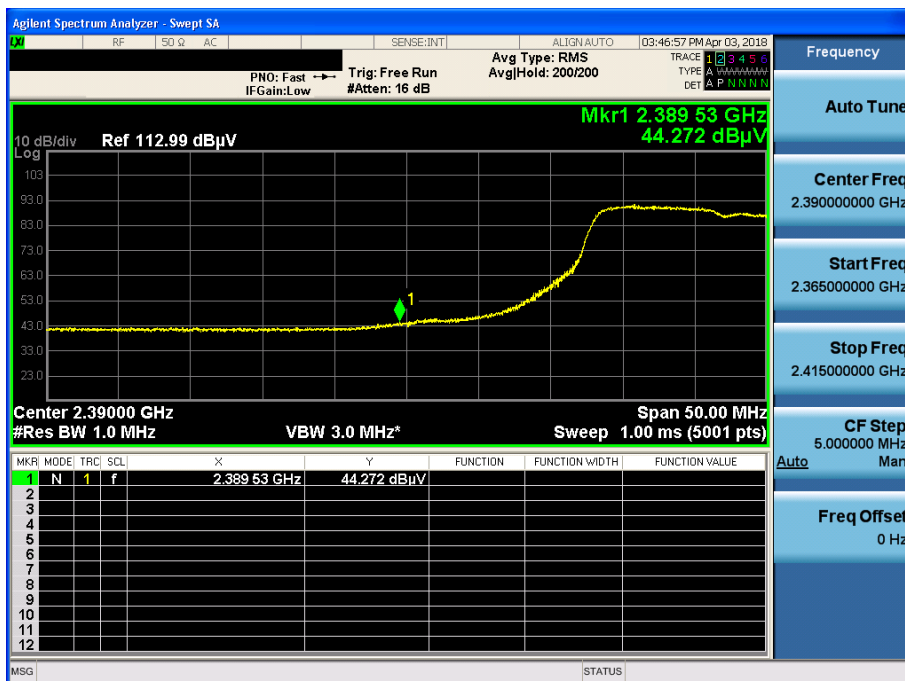
TM 6 & Lowest & X axis & Hor

Detector Mode : PK



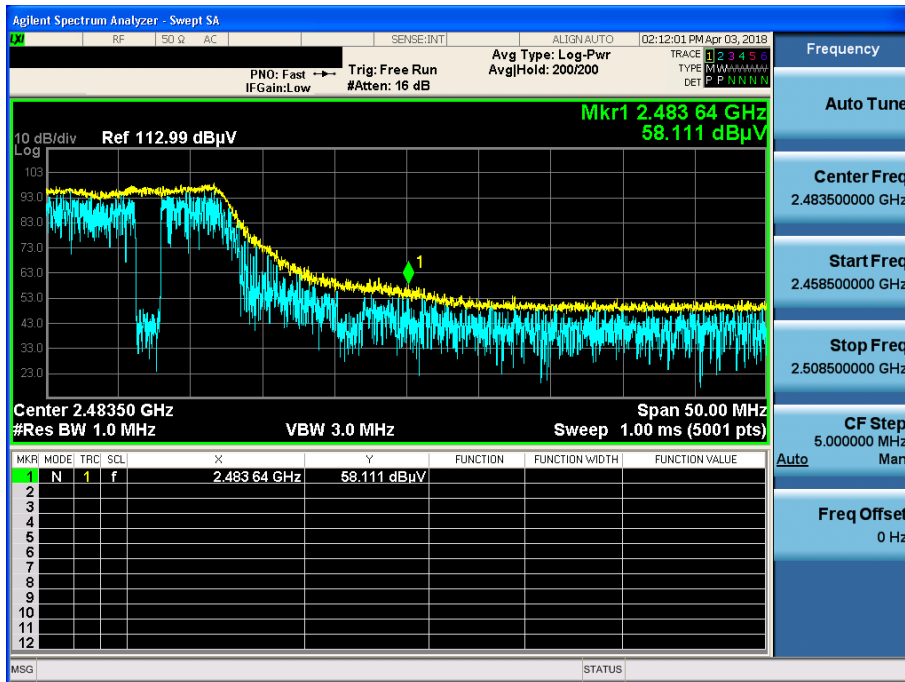
TM 6 & Lowest & X axis & Hor

Detector Mode : AV



TM 6 & Highest & X axis & Hor

Detector Mode : PK



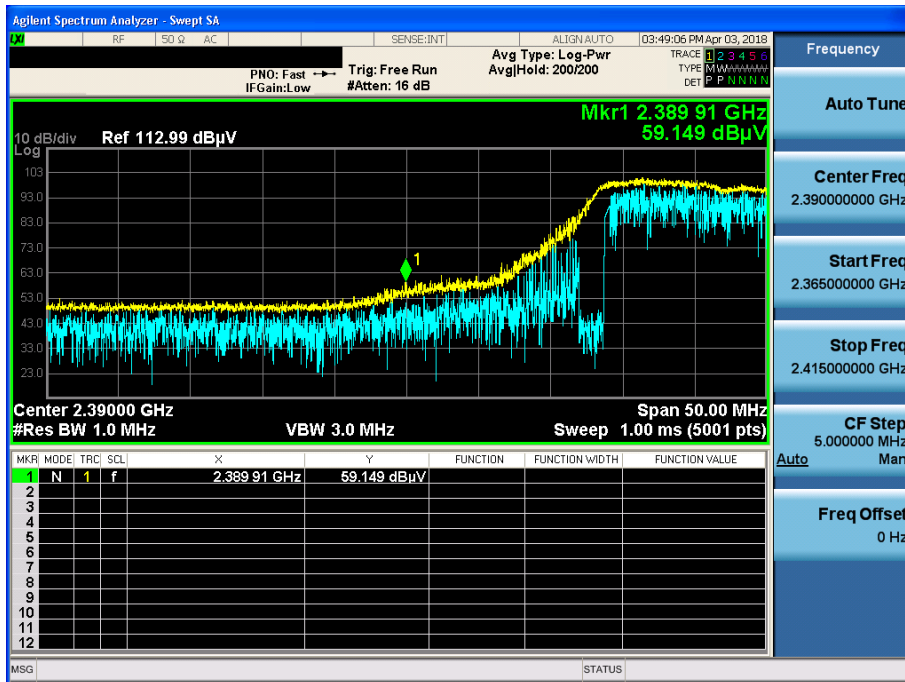
TM 6 & Highest & X axis & Hor

Detector Mode : AV



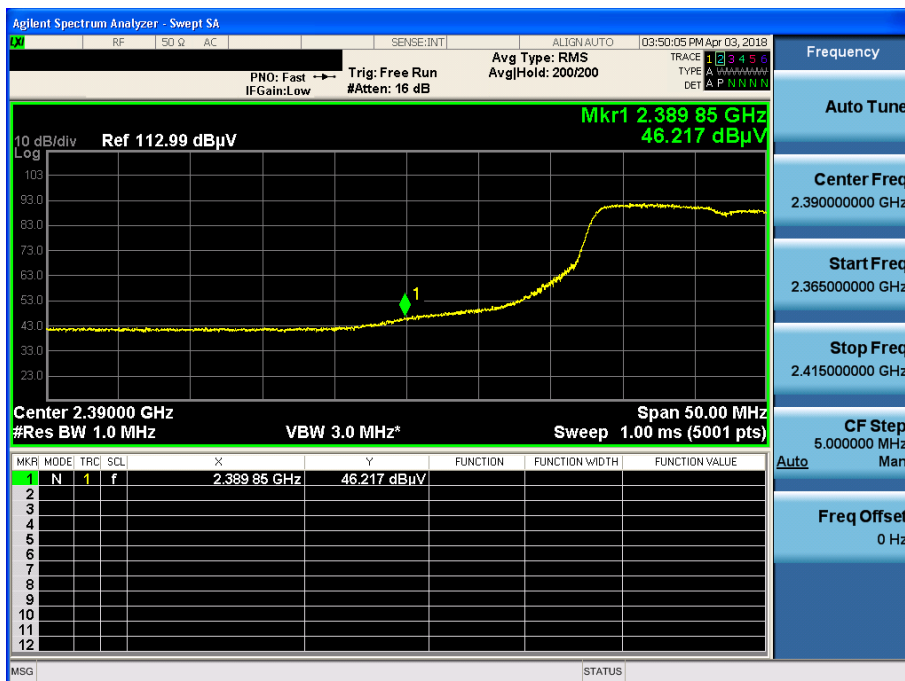
TM 7 & Lowest & X axis & Hor

Detector Mode : PK



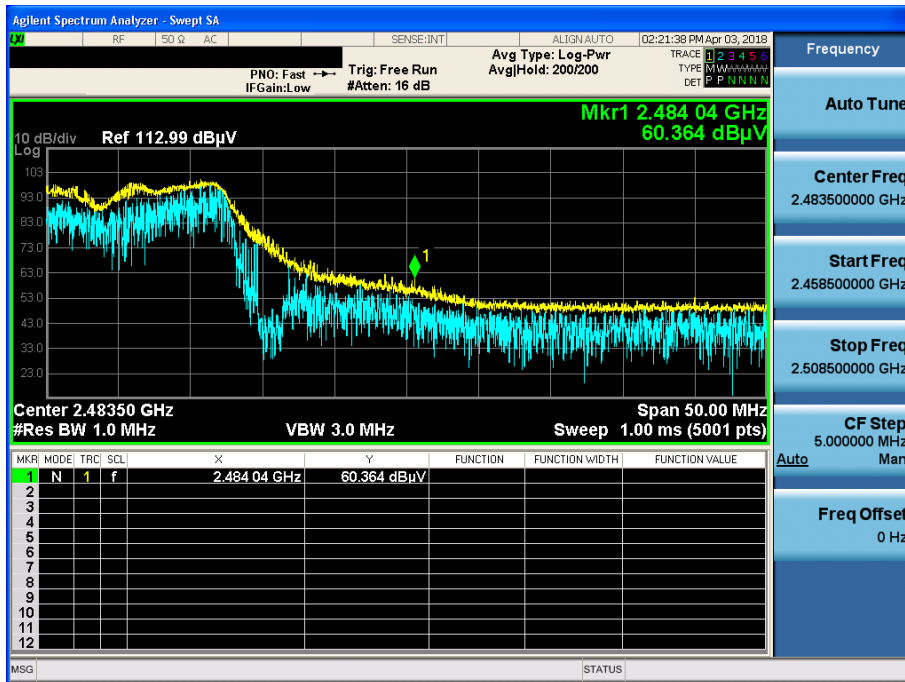
TM 7 & Lowest & X axis & Hor

Detector Mode : AV



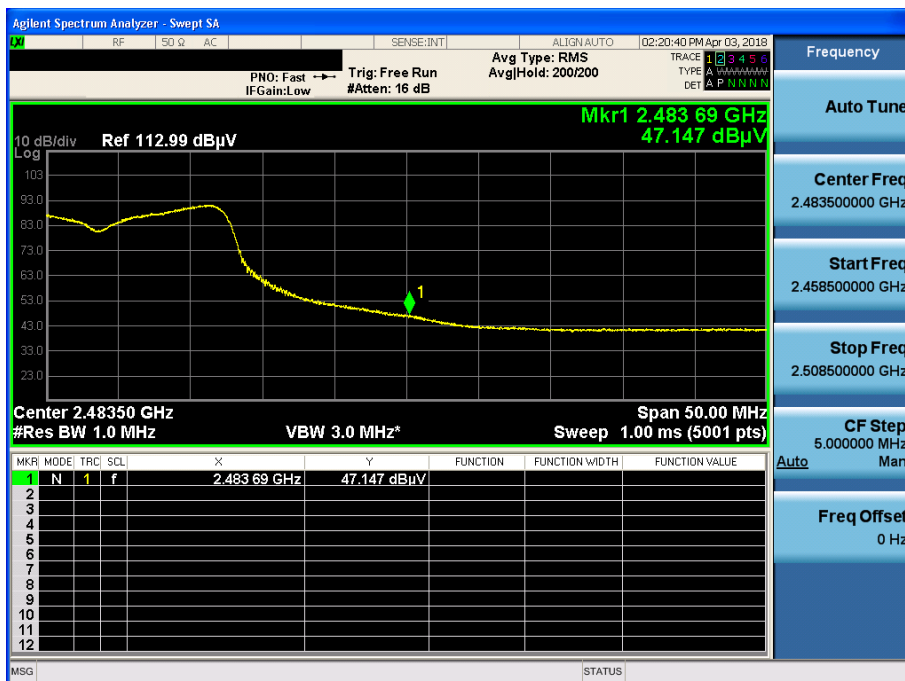
TM 7 & Highest & X axis & Hor

Detector Mode : PK



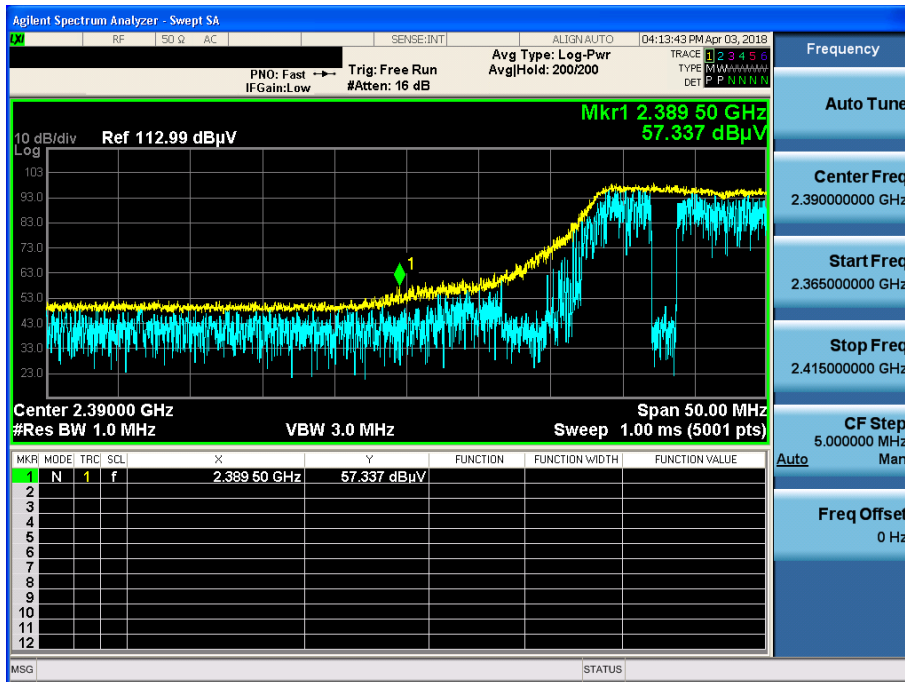
TM 7 & Highest & X axis & Hor

Detector Mode : AV



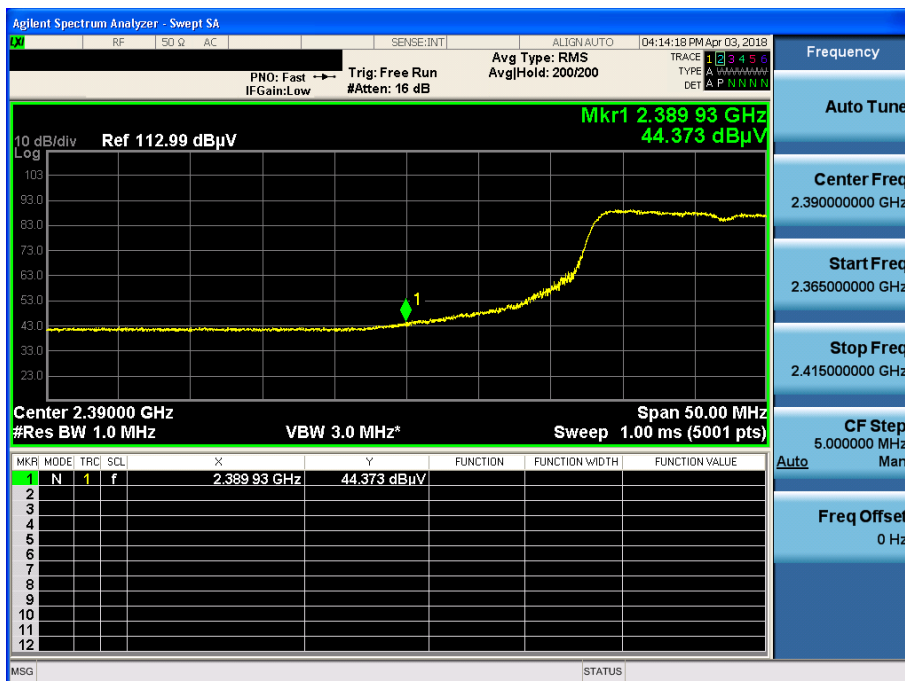
TM 8 & Lowest & X axis & Hor

Detector Mode : PK



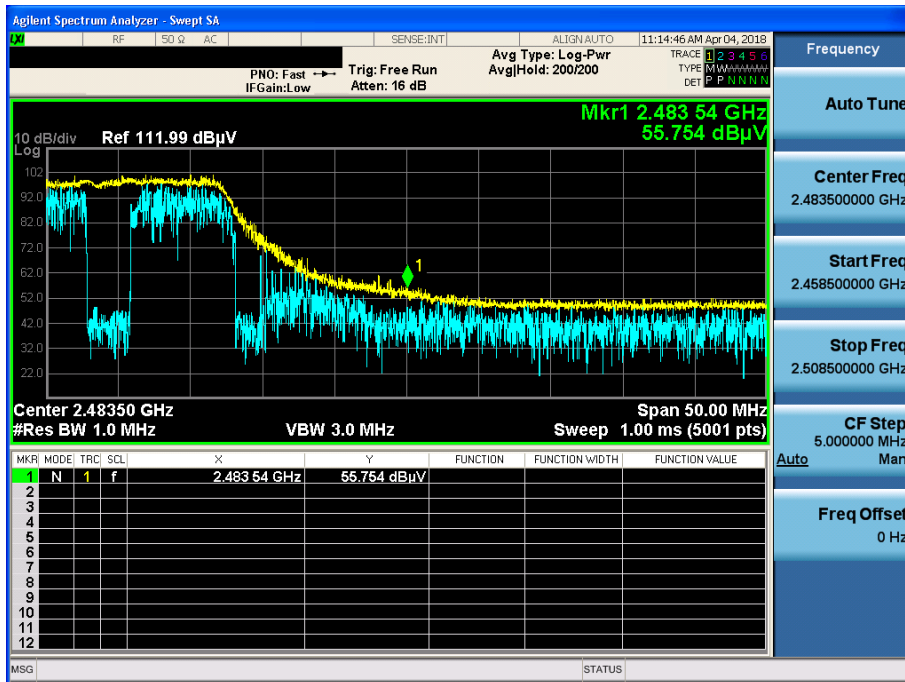
TM 8 & Lowest & X axis & Hor

Detector Mode : AV



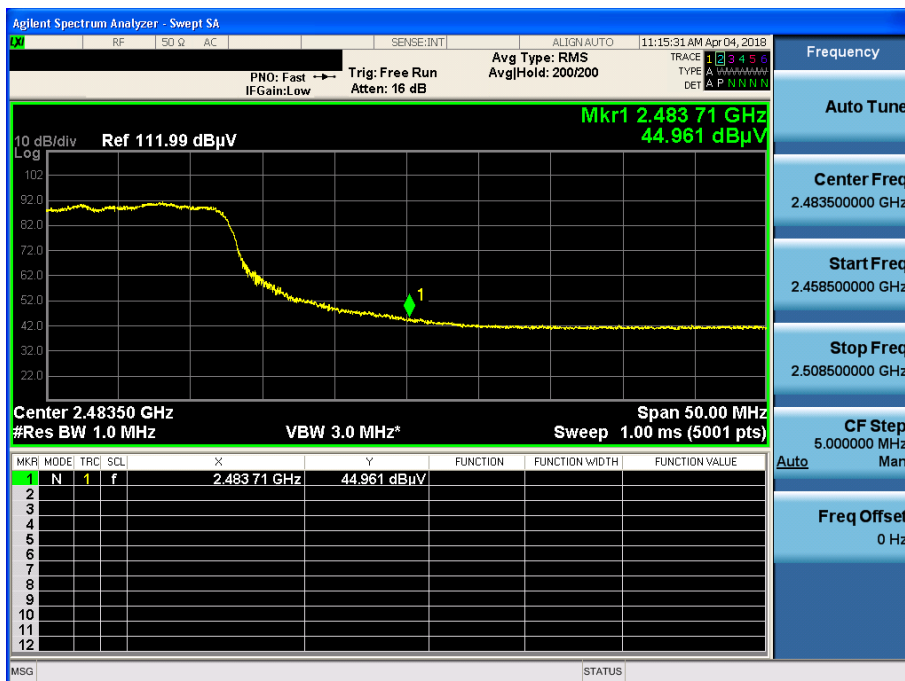
TM 8 & Highest & X axis & Hor

Detector Mode : PK



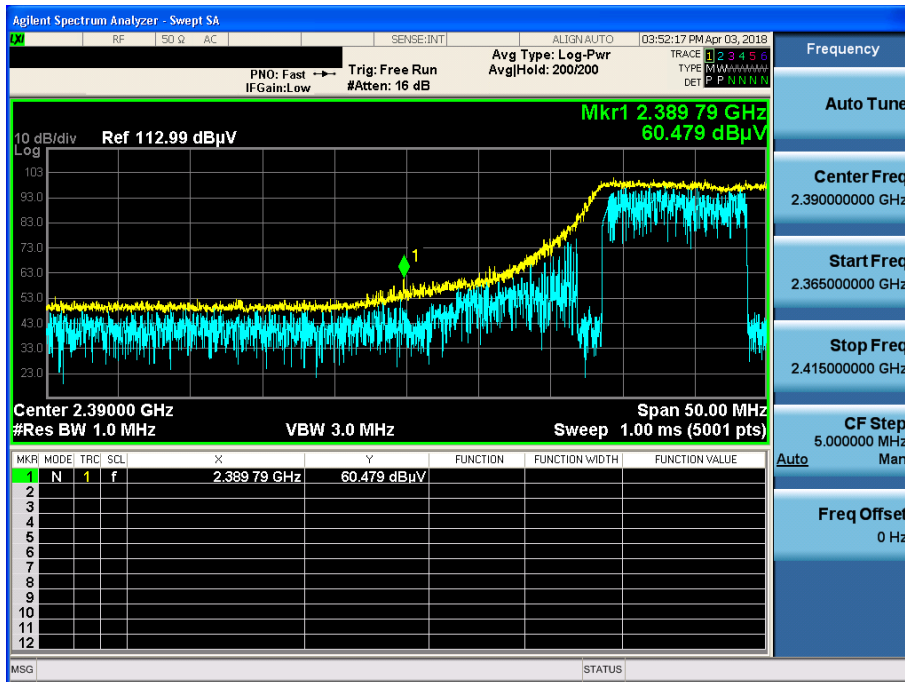
TM 8 & Highest & X axis & Hor

Detector Mode : AV



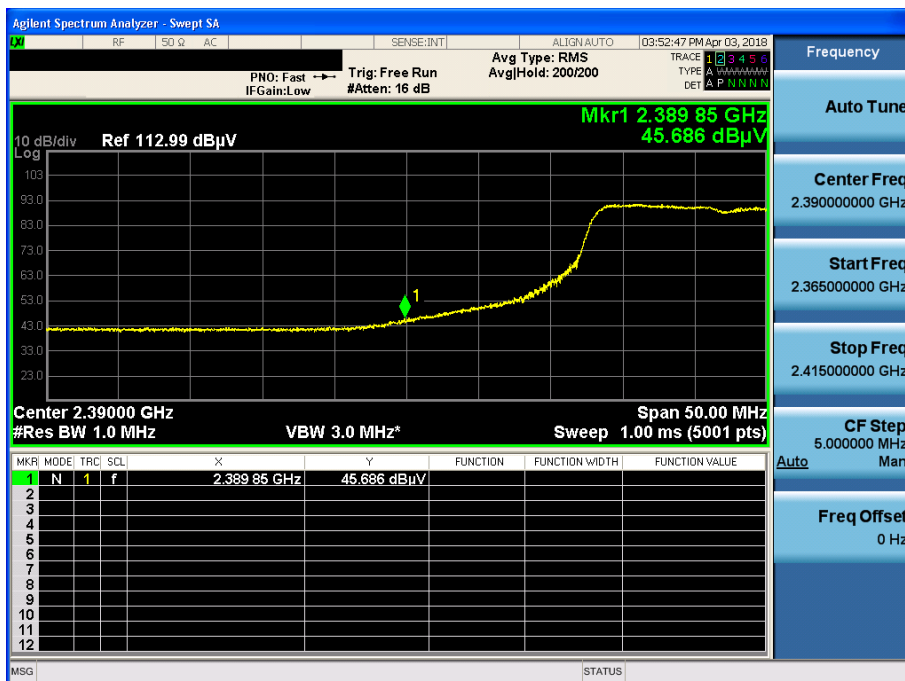
TM 9 & Lowest & X axis & Hor

Detector Mode : PK



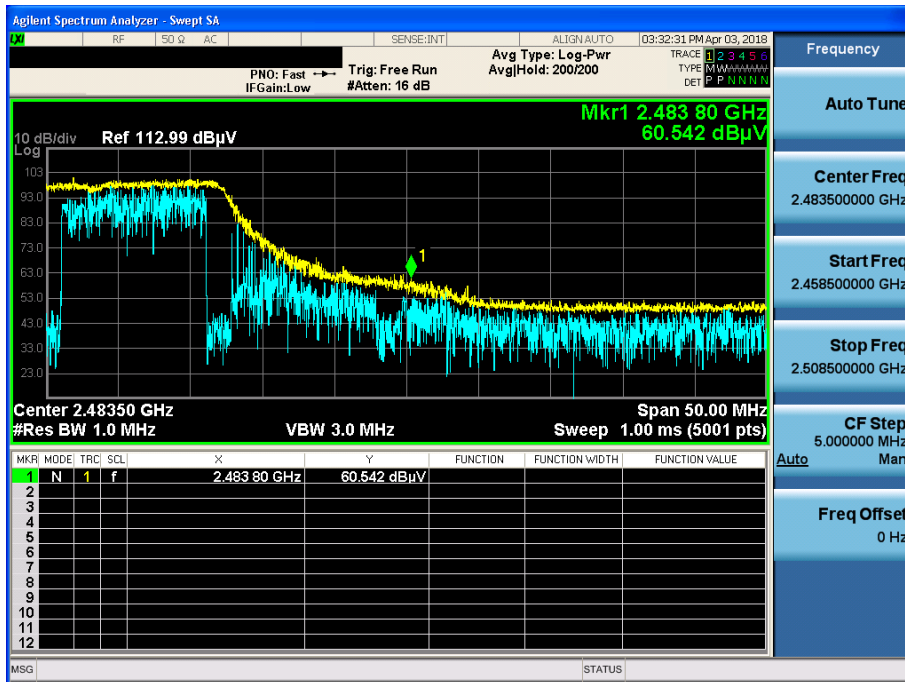
TM 9 & Lowest & X axis & Hor

Detector Mode : AV



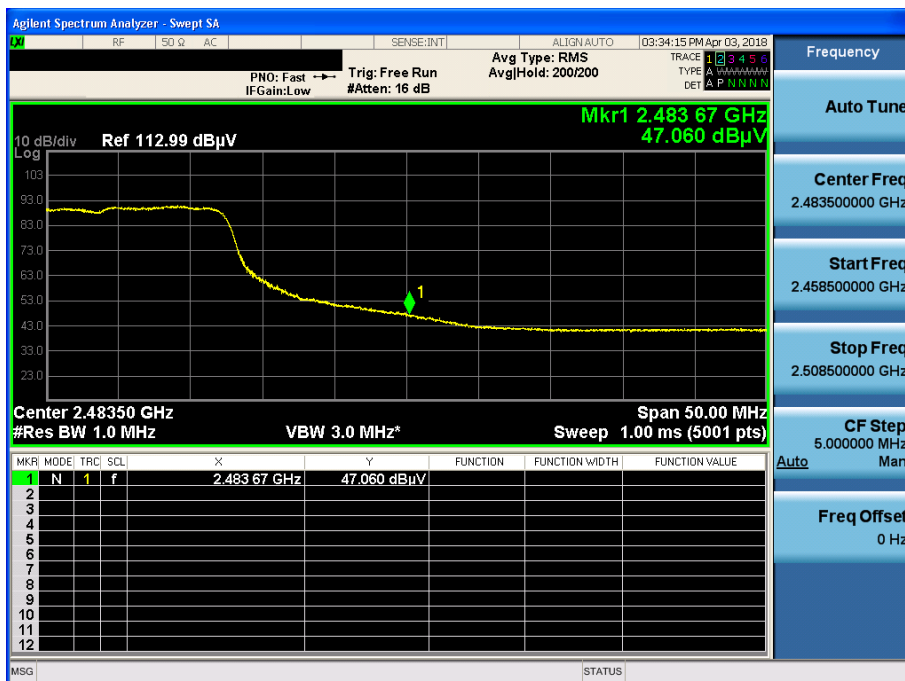
TM 9 & Highest & X axis & Hor

Detector Mode : PK



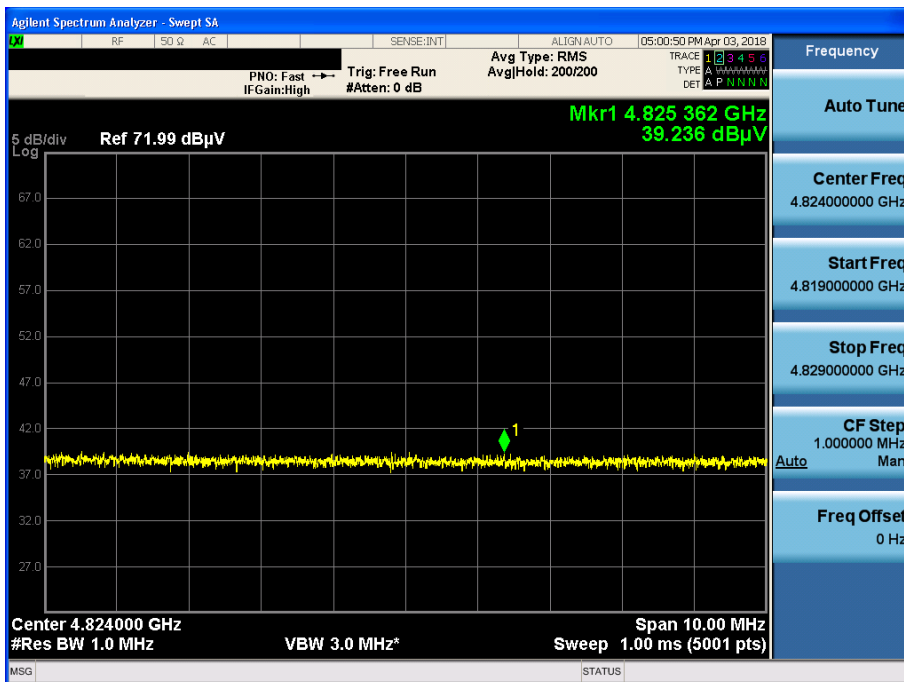
TM 9 & Highest & X axis & Hor

Detector Mode : AV



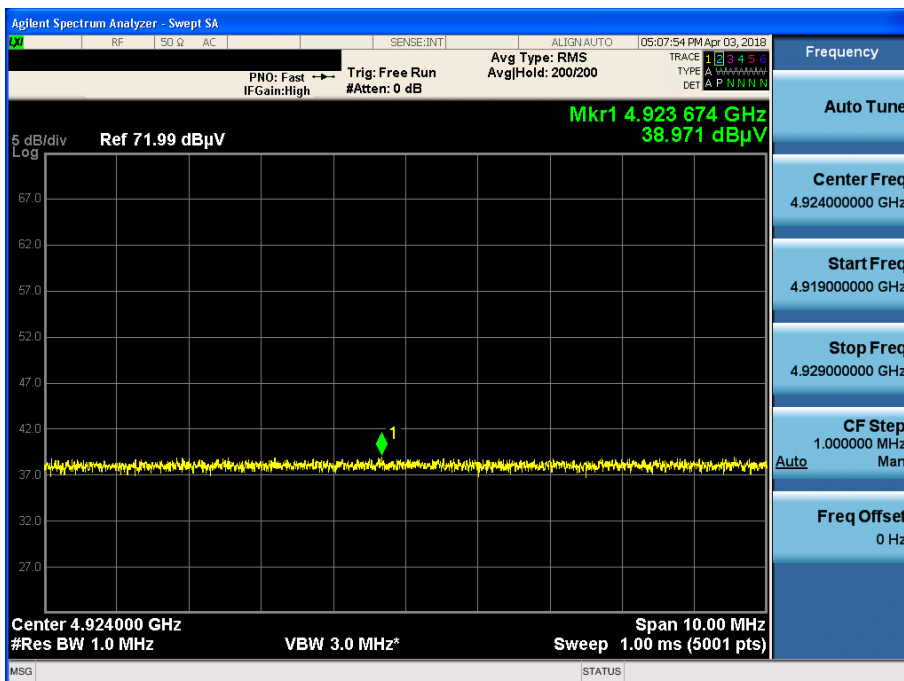
TM 1 & Lowest & X axis & Hor

Detector Mode : AV



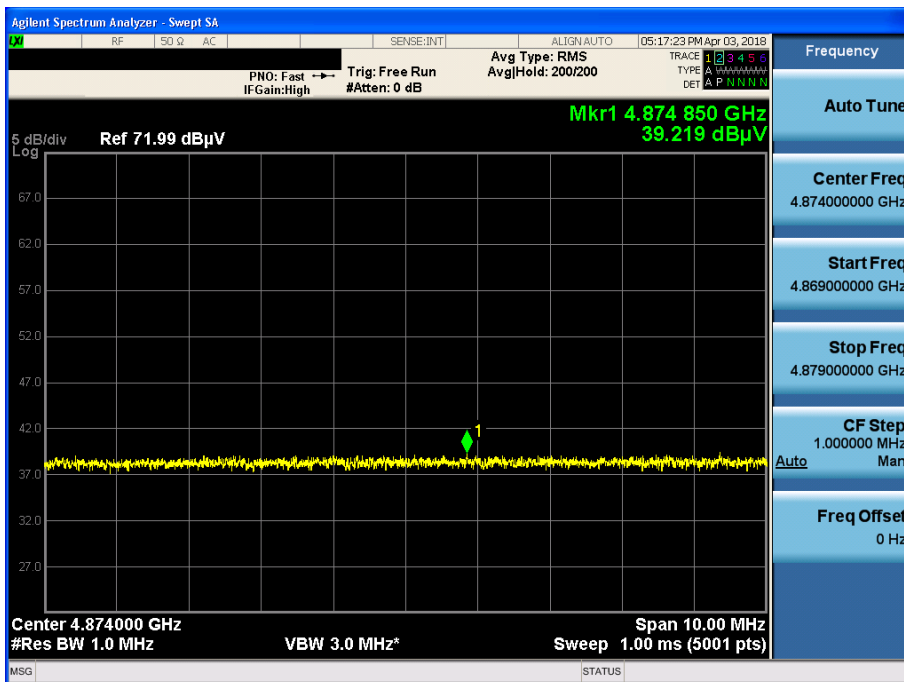
TM 5 & Highest & X axis & Hor

Detector Mode : AV



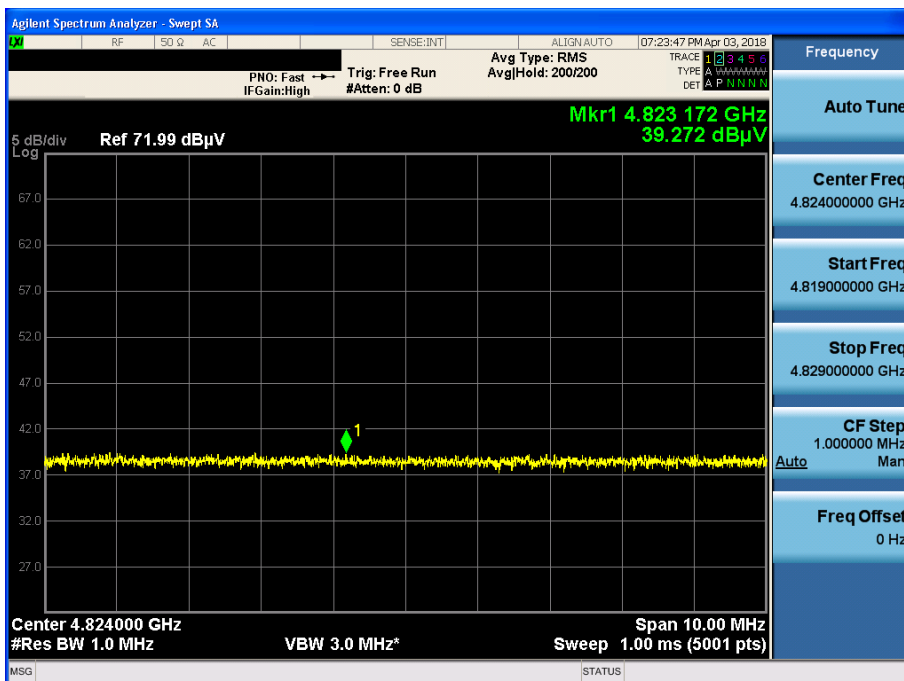
TM 6 & Middle & X axis & Hor

Detector Mode : AV



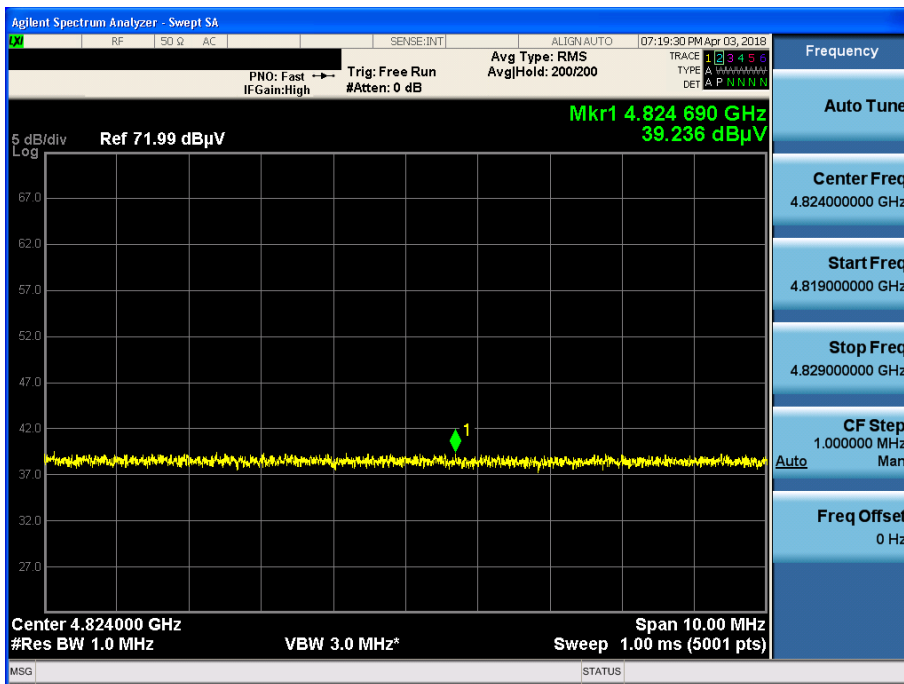
TM 7 & Lowest & X axis & Hor

Detector Mode : AV



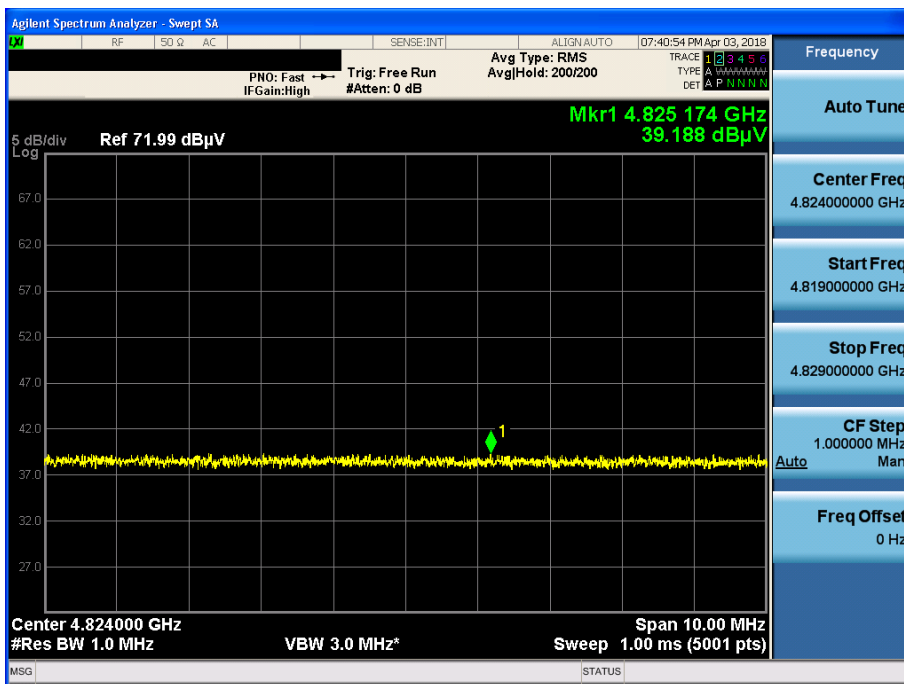
TM 8 & Lowest & X axis & Hor

Detector Mode : AV



TM 9 & Lowest & X axis & Hor

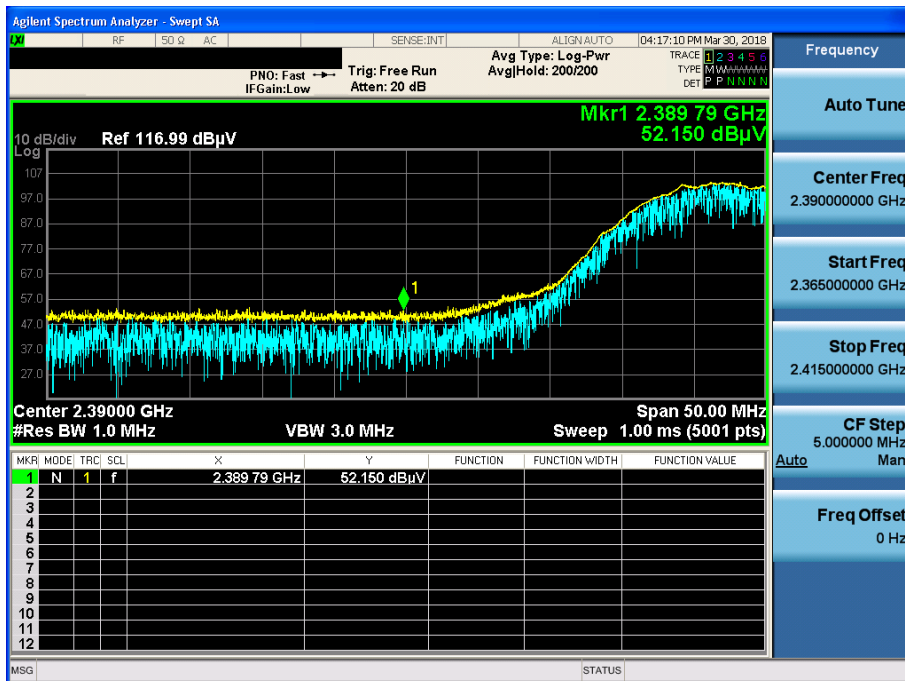
Detector Mode : AV



Unwanted Emissions (Radiated) Test Plot _ Wireless Charging

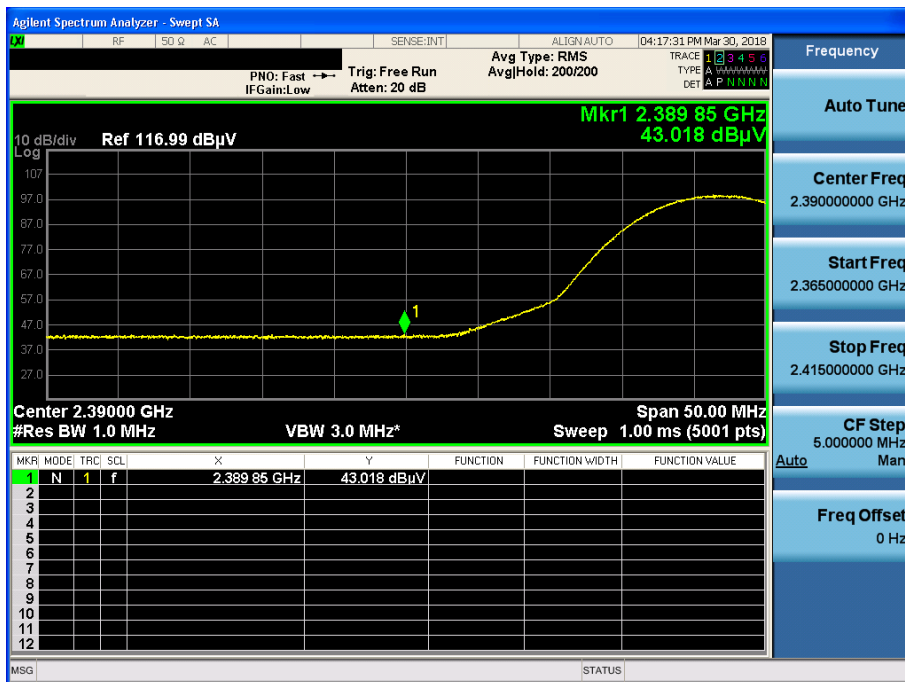
TM 1 & Lowest & X axis & Hor

Detector Mode : PK



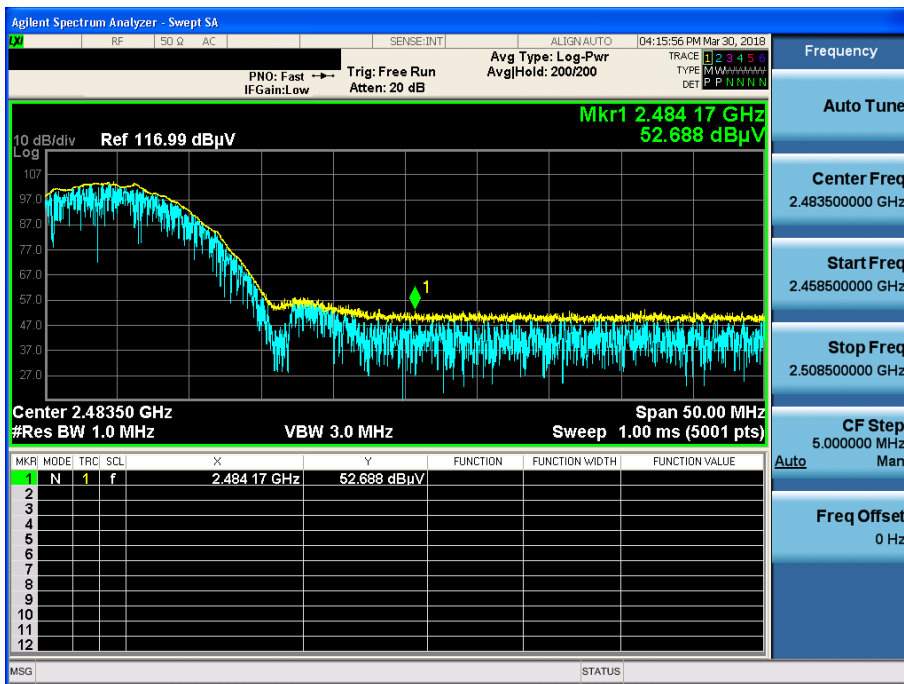
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Detector Mode : AV



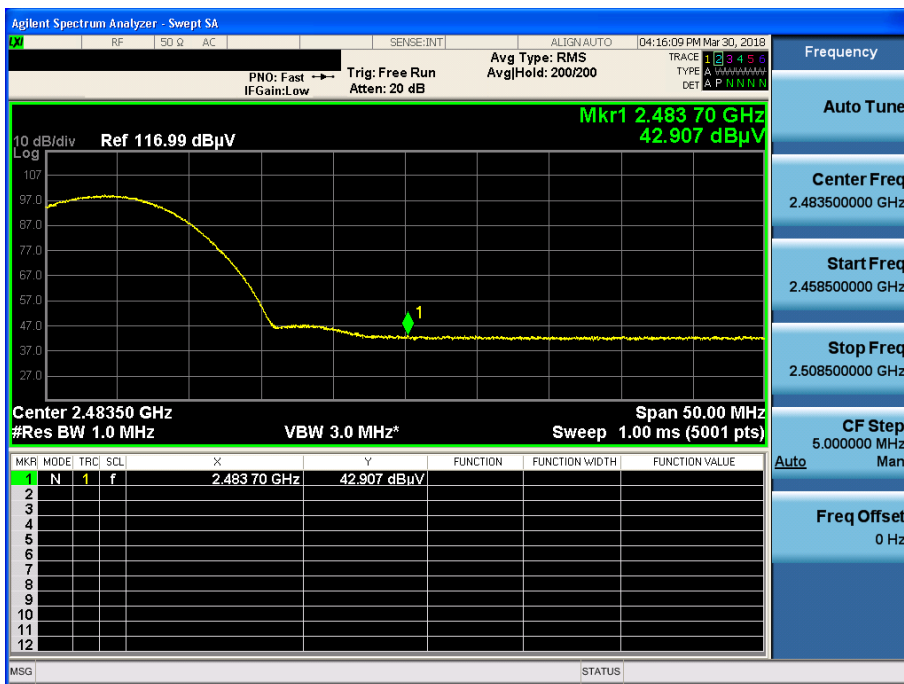
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Detector Mode : PK



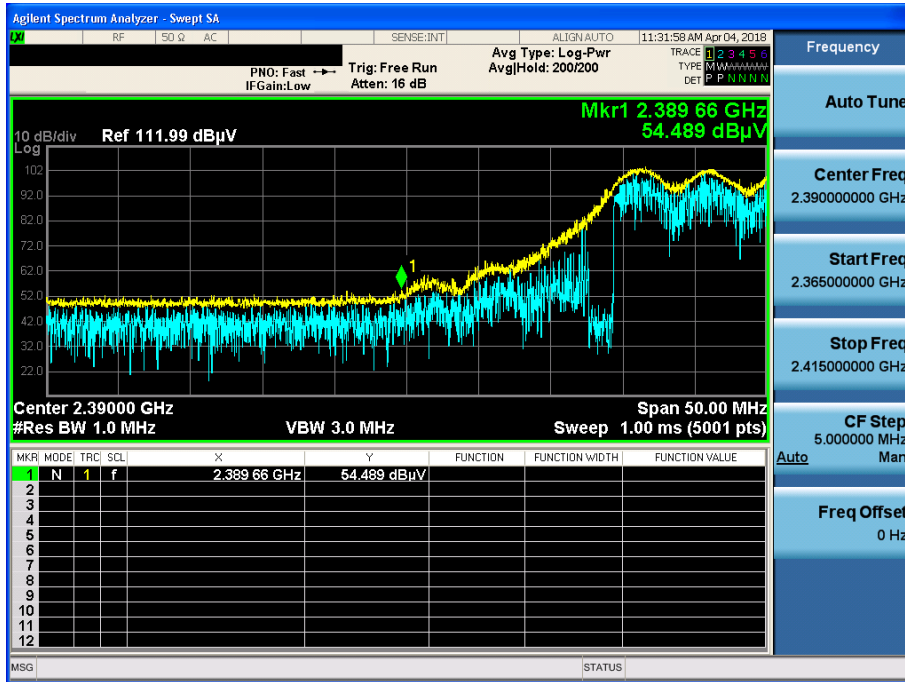
TM 1 & Highest & X axis & Hor

Detector Mode : AV



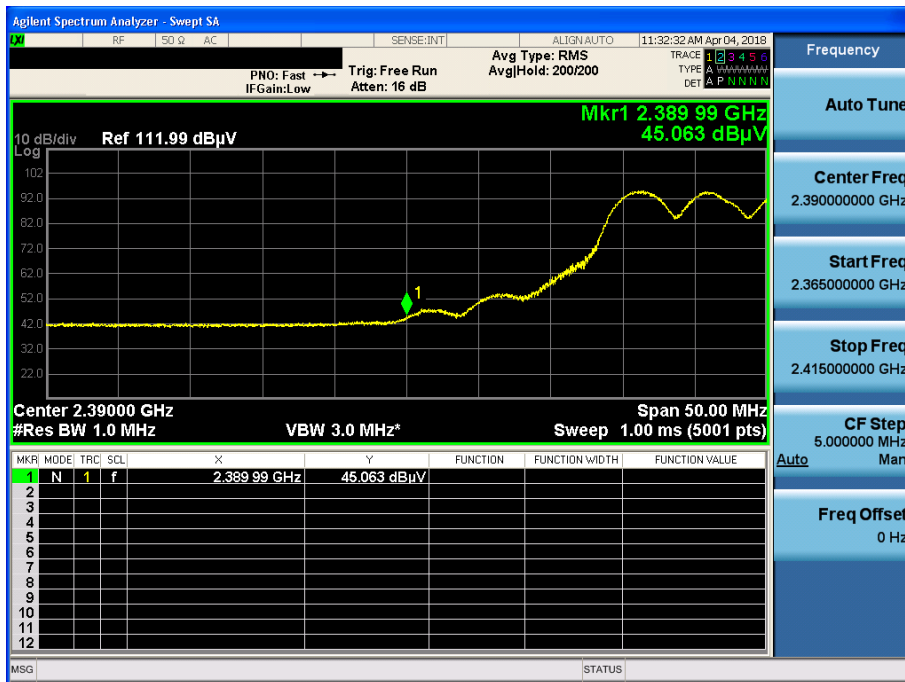
TM 5 & Lowest & X axis & Hor

Detector Mode : PK



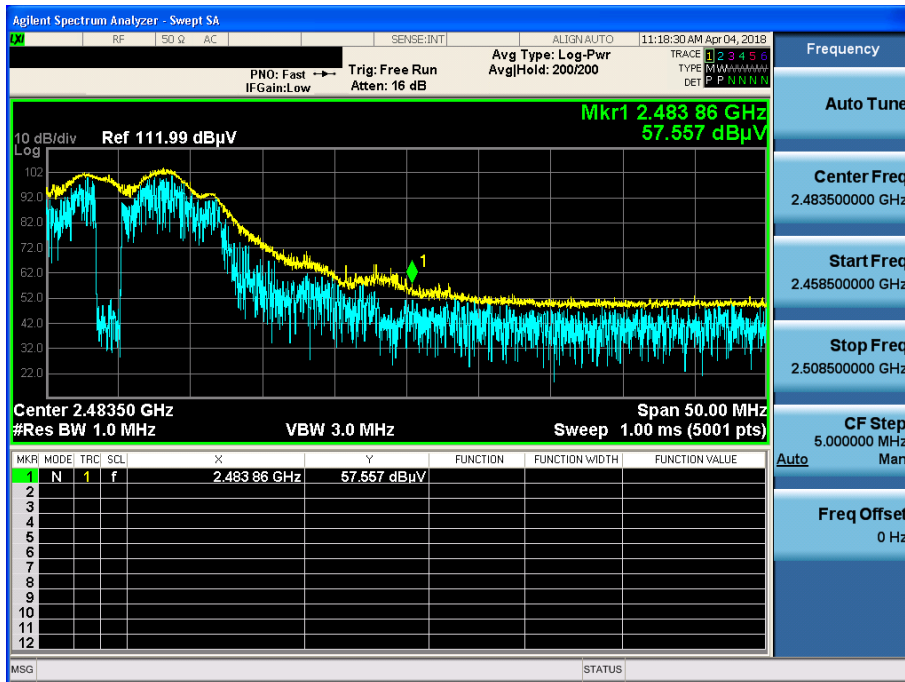
TM 5 & Lowest & X axis & Hor

Detector Mode : AV



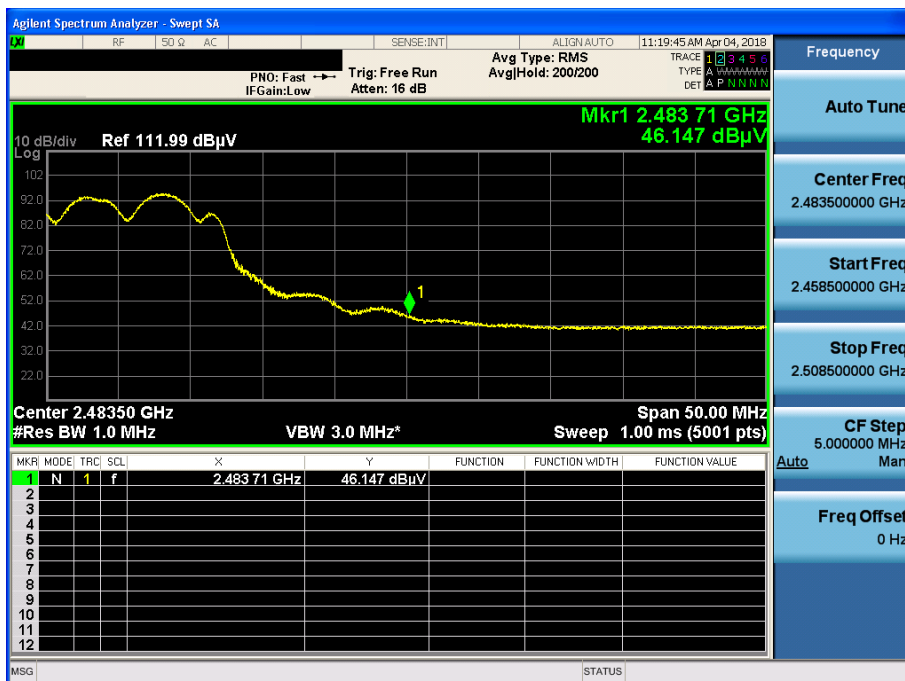
TM 5 & Highest & X axis & Hor

Detector Mode : PK



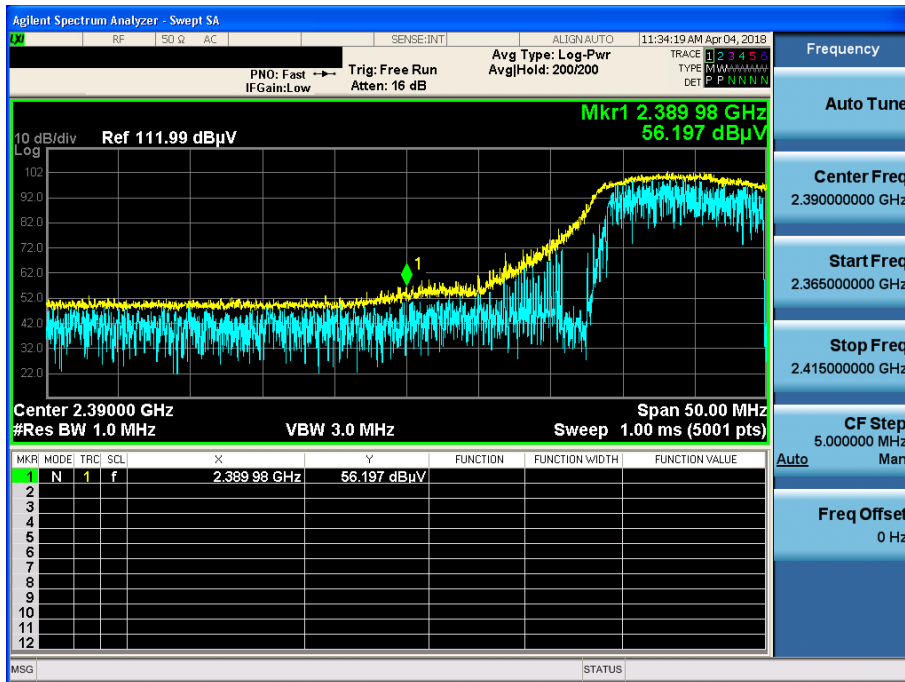
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Detector Mode : AV



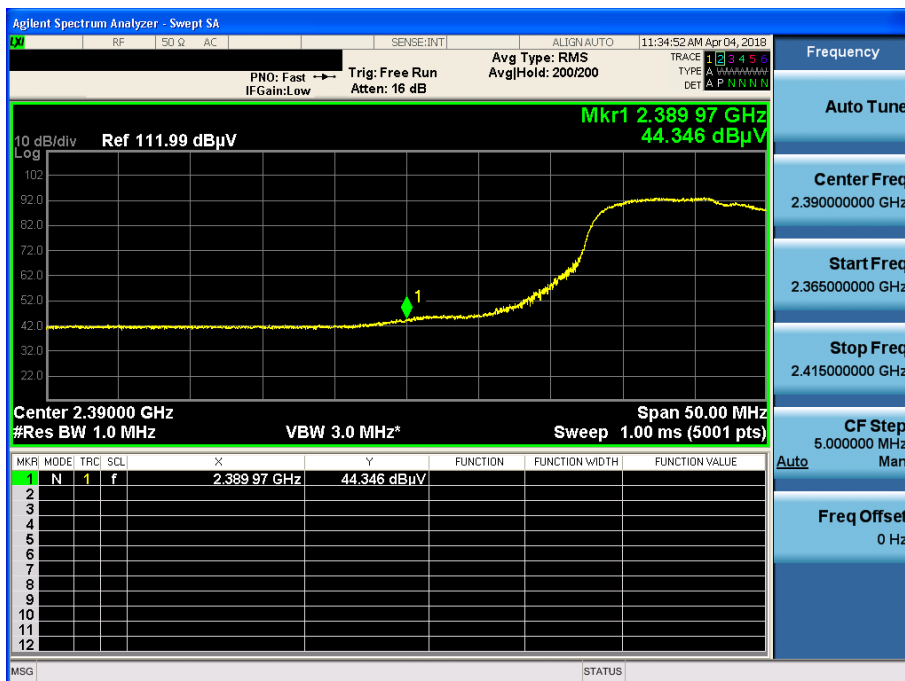
TM 6 & Lowest & X axis & Hor

Detector Mode : PK



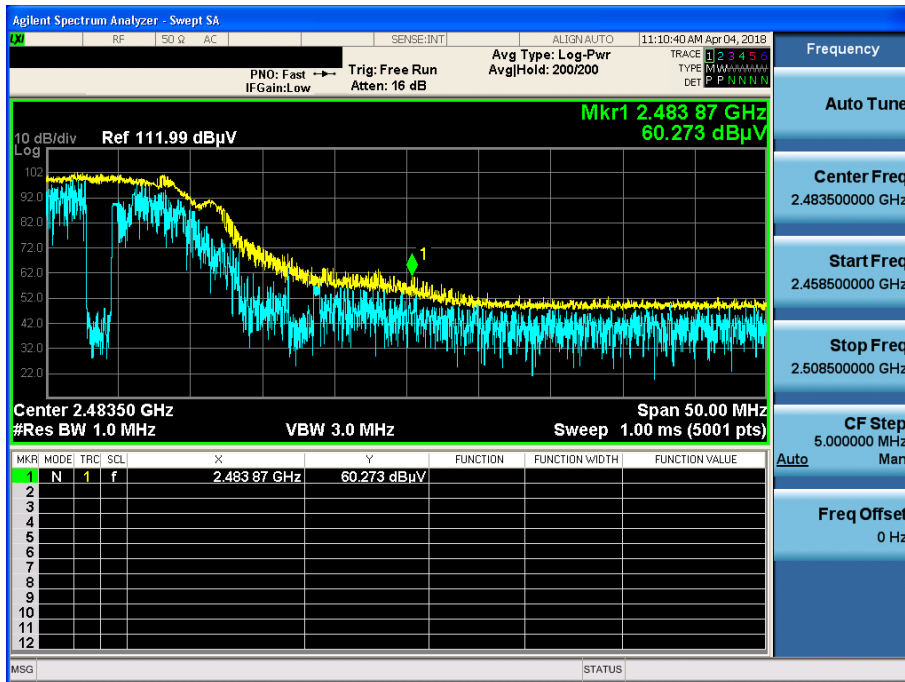
TM 6 & Lowest & X axis & Hor

Detector Mode : AV



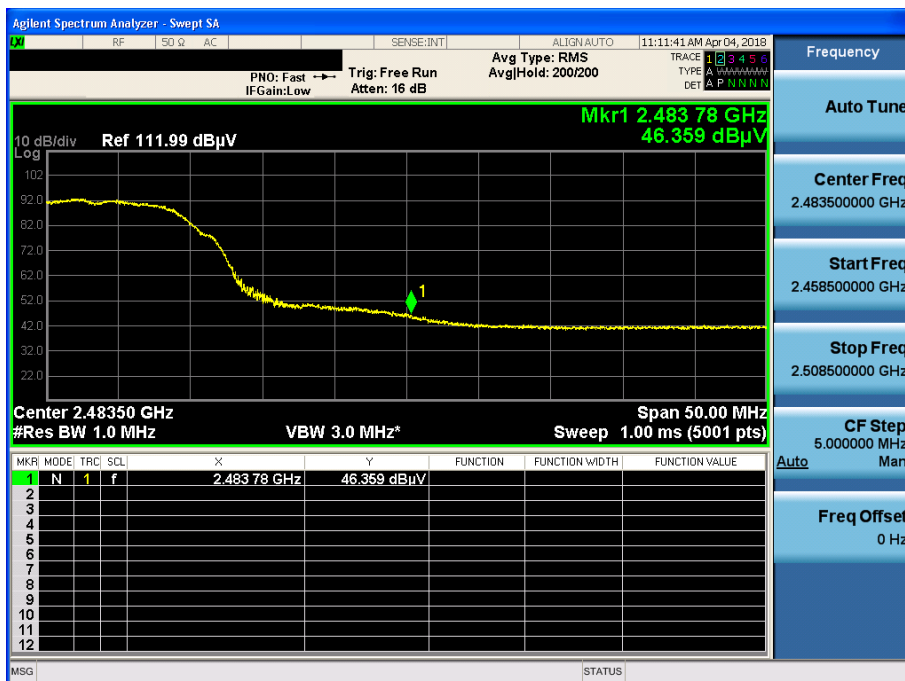
TM 6 & Highest & X axis & Hor

Detector Mode : PK



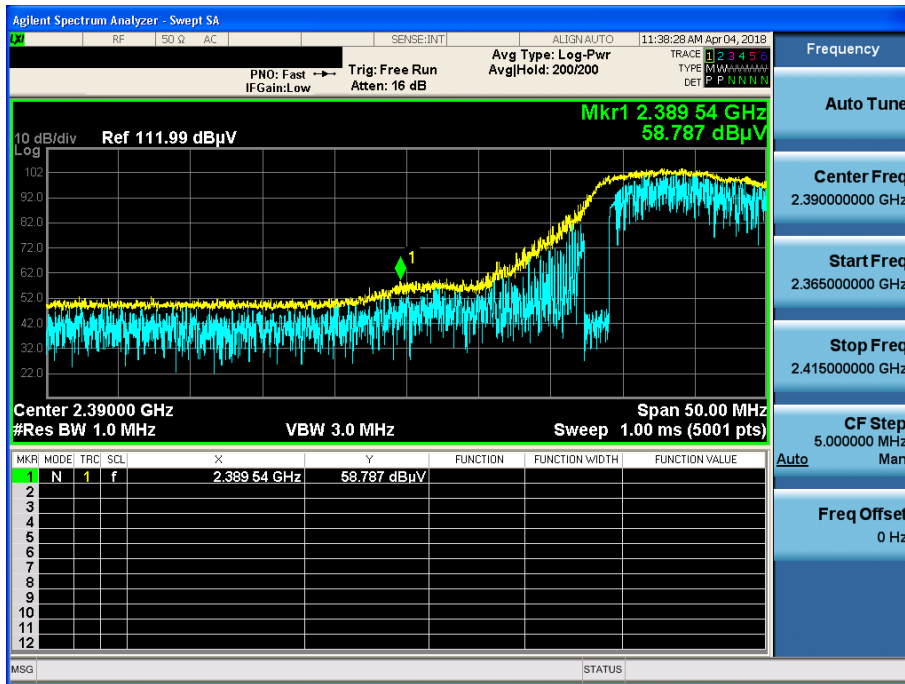
TM 6 & Highest & X axis & Hor

Detector Mode : AV



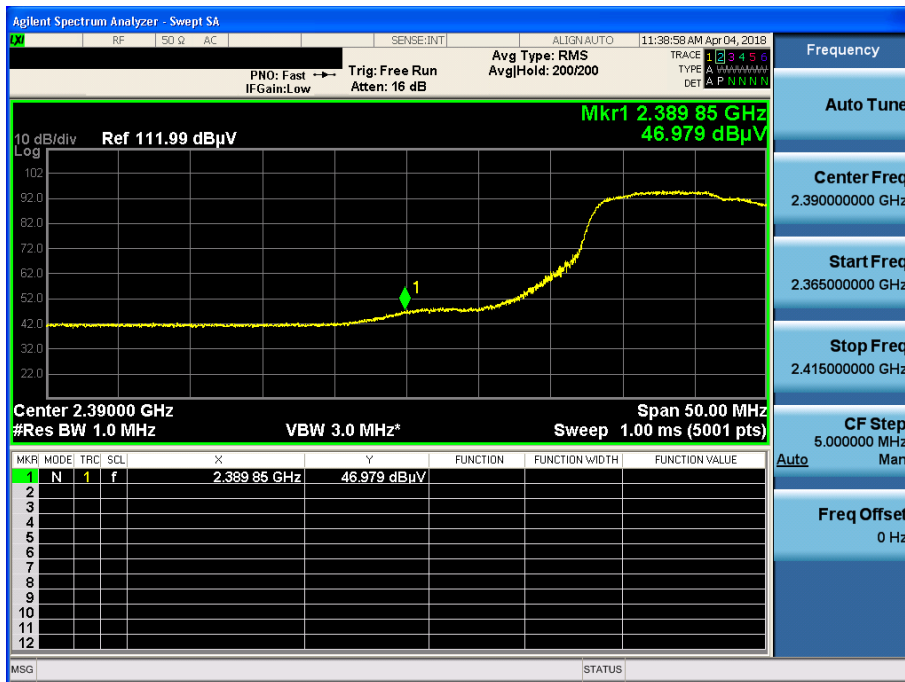
TM 7 & Lowest & X axis & Hor

Detector Mode : PK



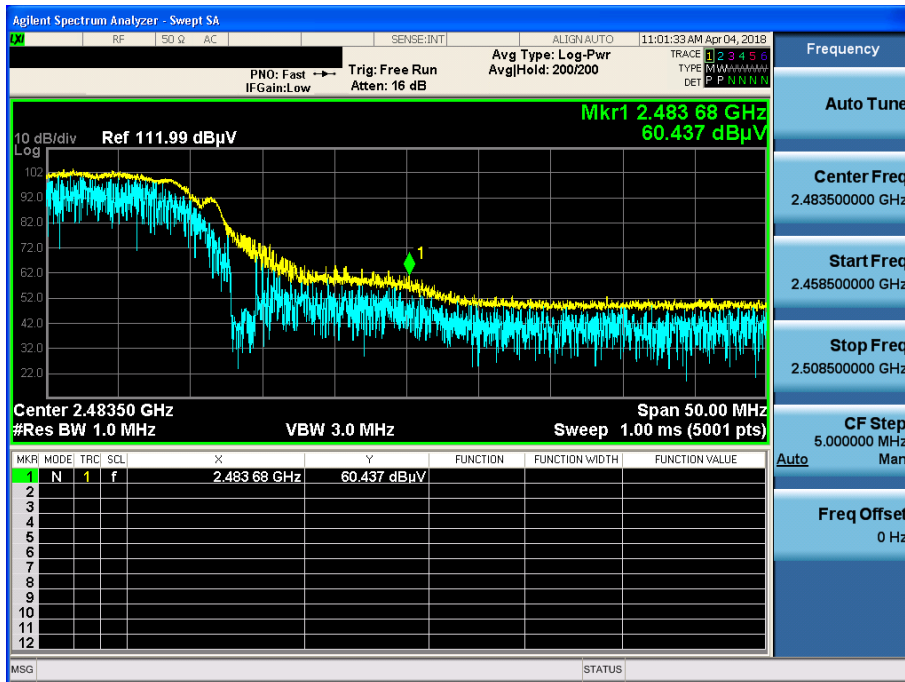
TM 7 & Lowest & X axis & Hor

Detector Mode : AV



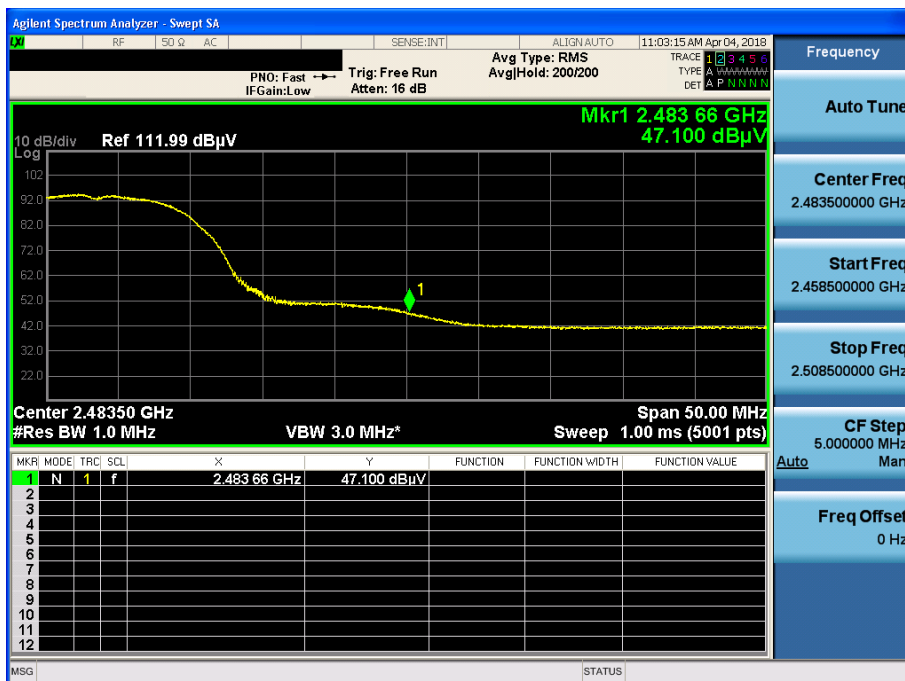
TM 7 & Highest & X axis & Hor

Detector Mode : PK



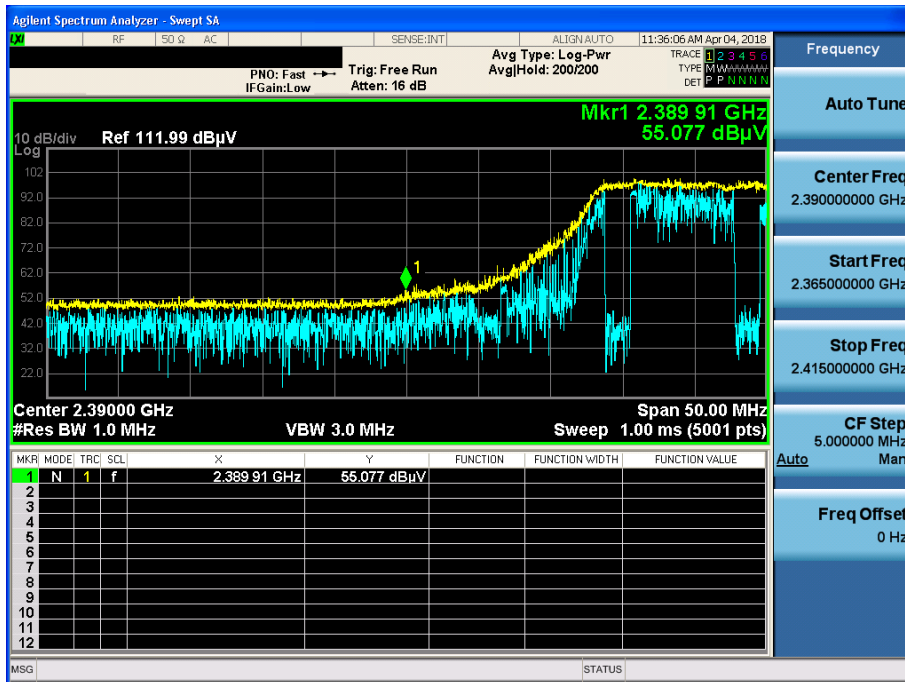
TM 7 & Highest & X axis & Hor

Detector Mode : AV



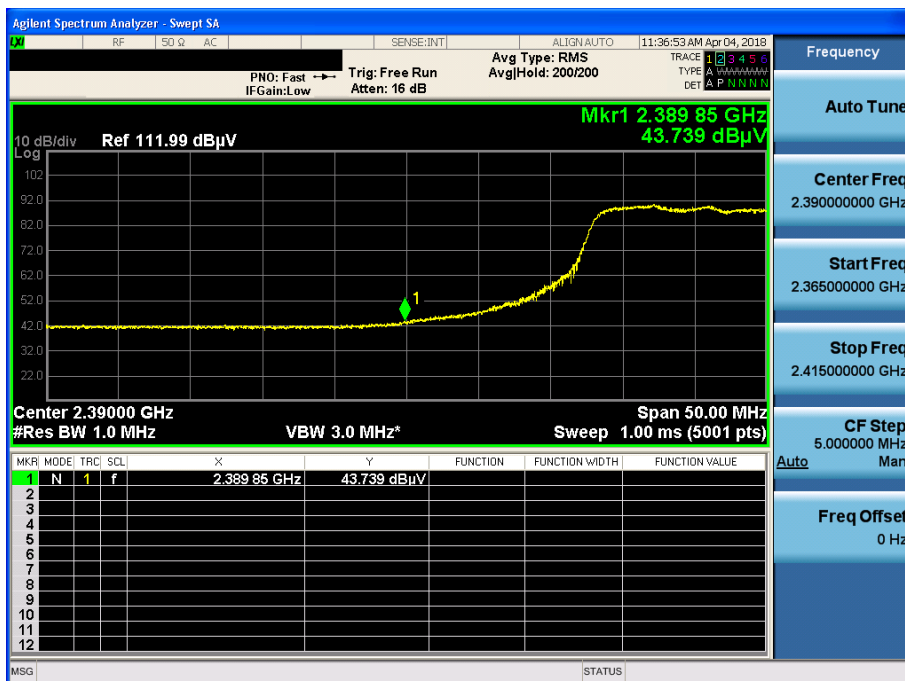
TM 8 & Lowest & X axis & Hor

Detector Mode : PK



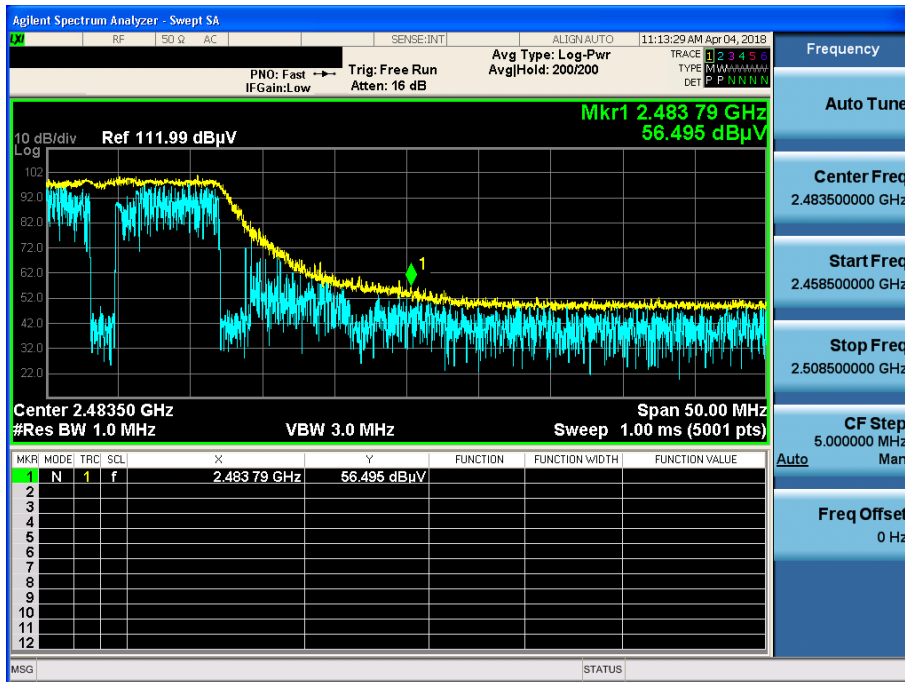
TM 8 & Lowest & X axis & Hor

Detector Mode : AV



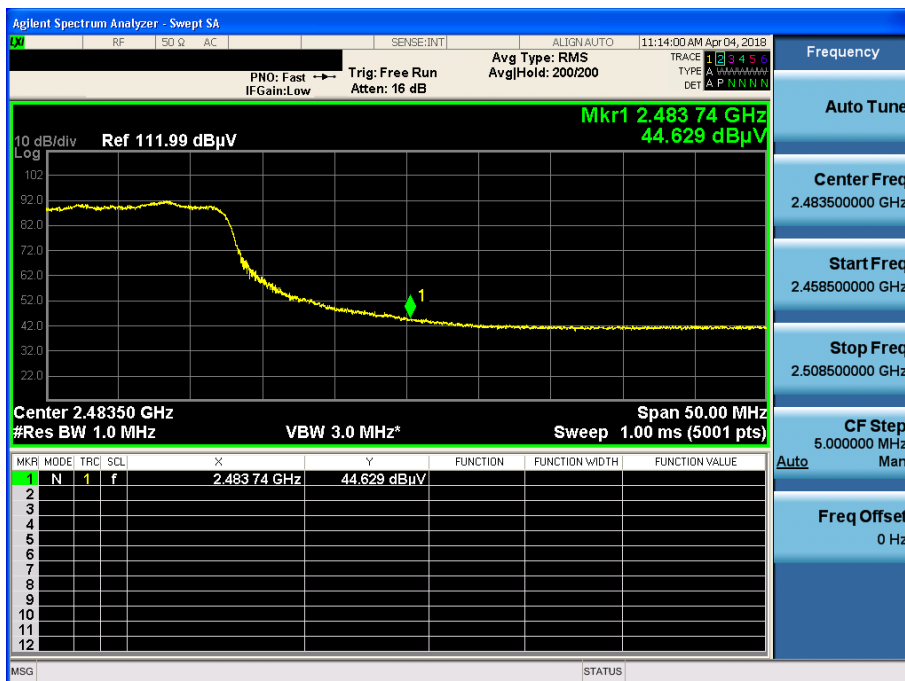
TM 8 & Highest & X axis & Hor

Detector Mode : PK



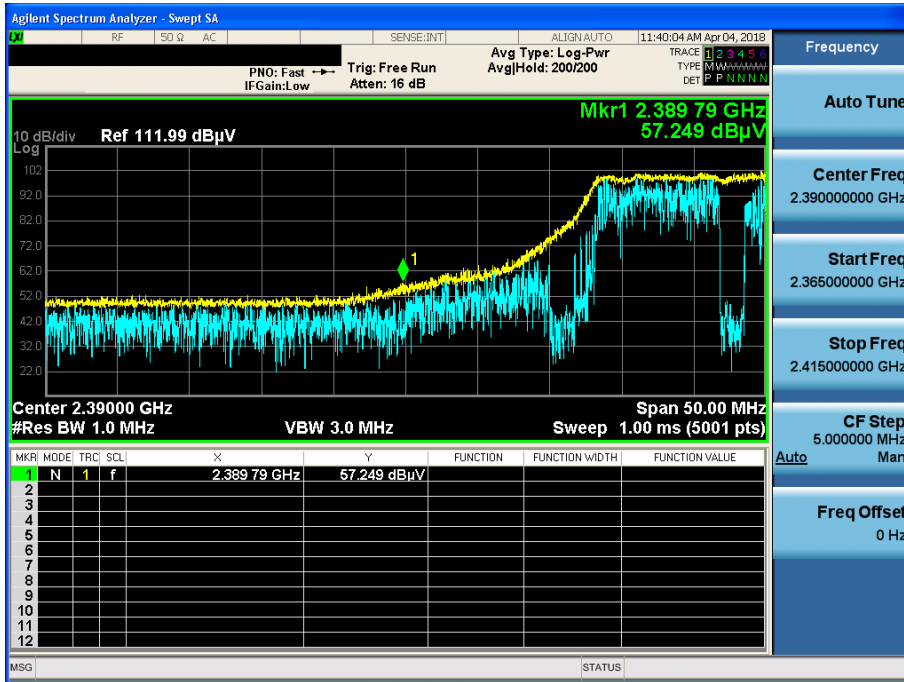
TM 8 & Highest & X axis & Hor

Detector Mode : AV



TM 9 & Lowest & X axis & Hor

Detector Mode : PK



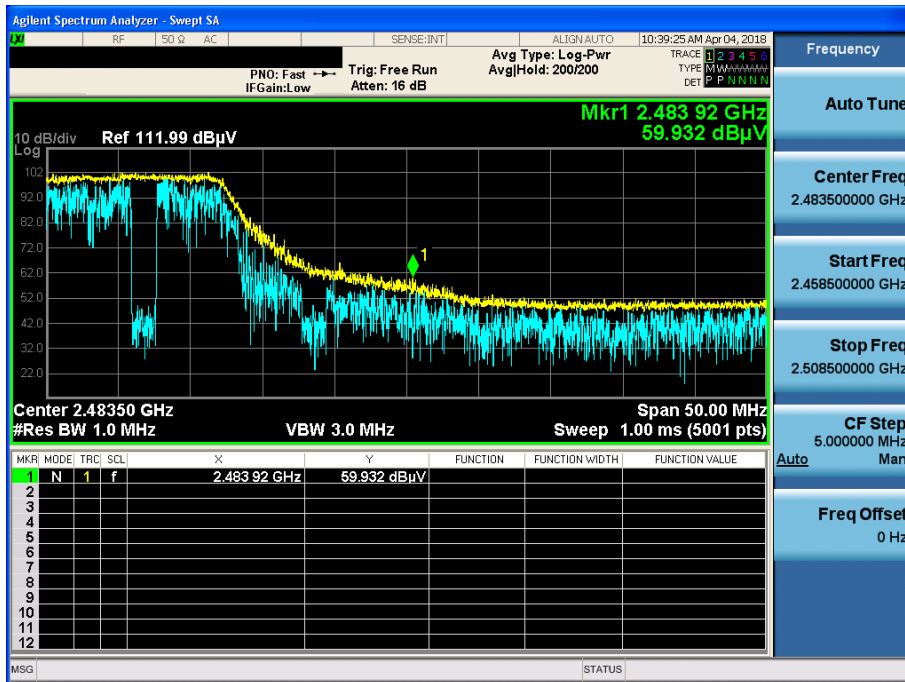
TM 9 & Lowest & X axis & Hor

Detector Mode : AV



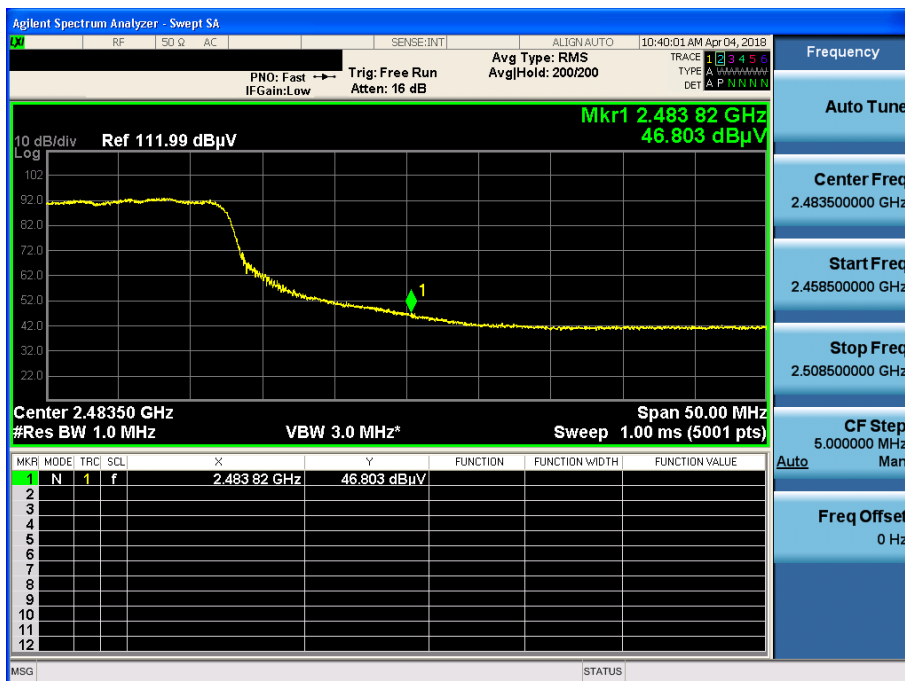
TM 9 & Highest & X axis & Hor

Detector Mode : PK



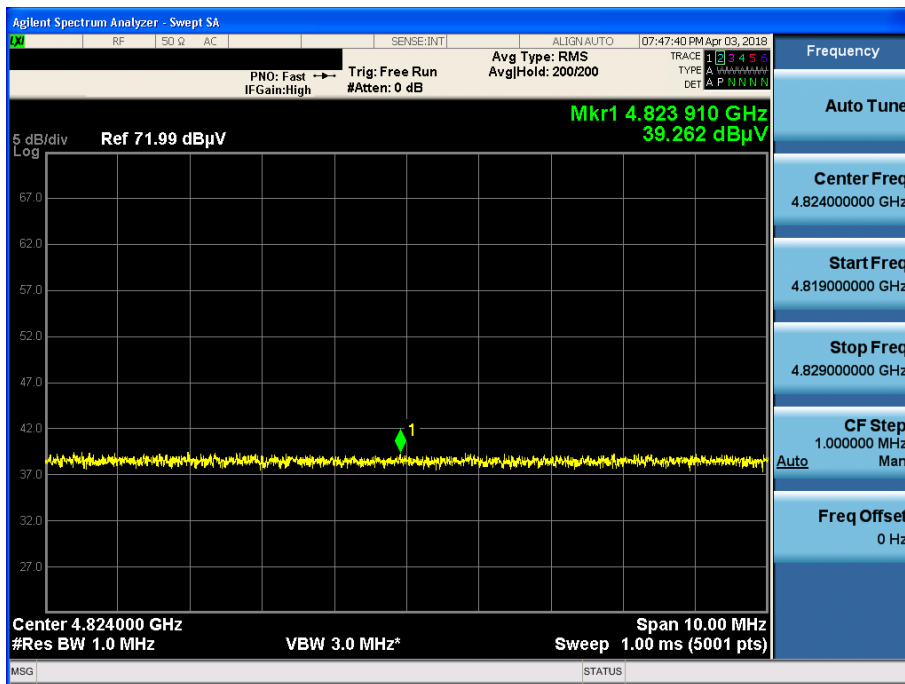
TM 9 & Highest & X axis & Hor

Detector Mode : AV



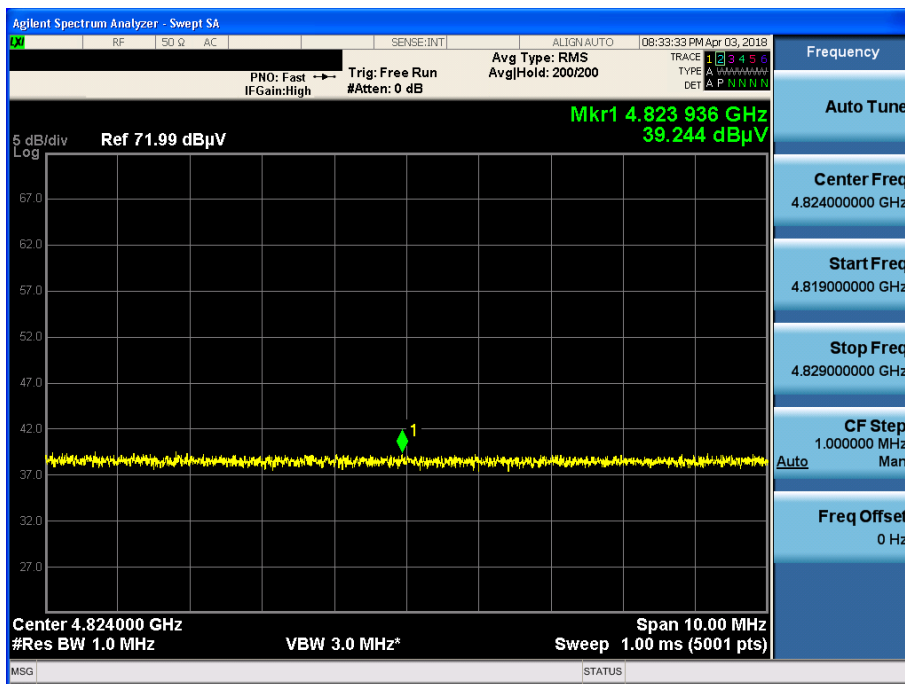
TM 1 & Lowest & X axis & Hor

Detector Mode : AV



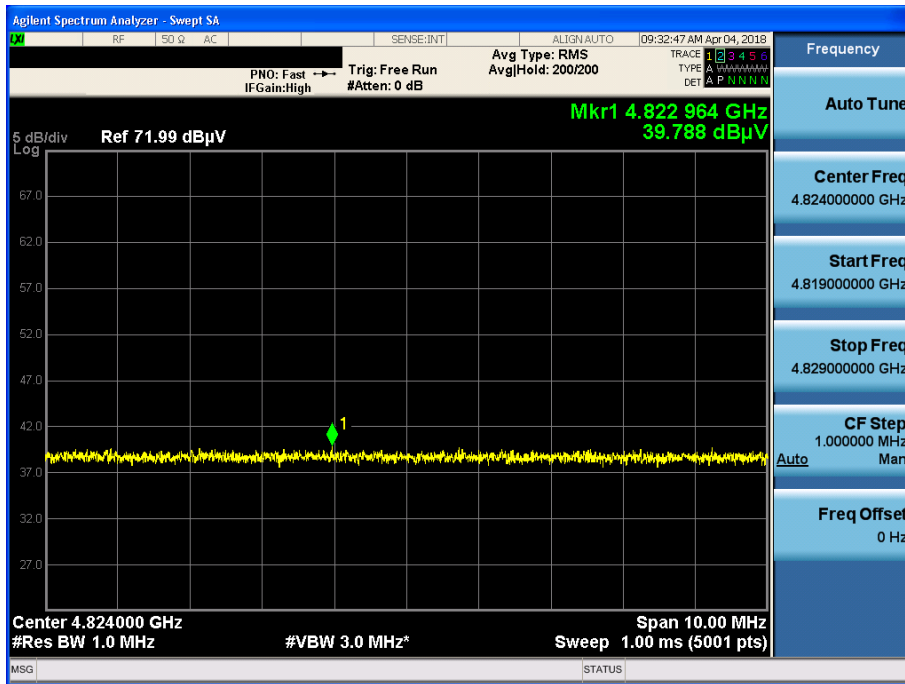
TM 5 & Lowest & X axis & Hor

Detector Mode : AV



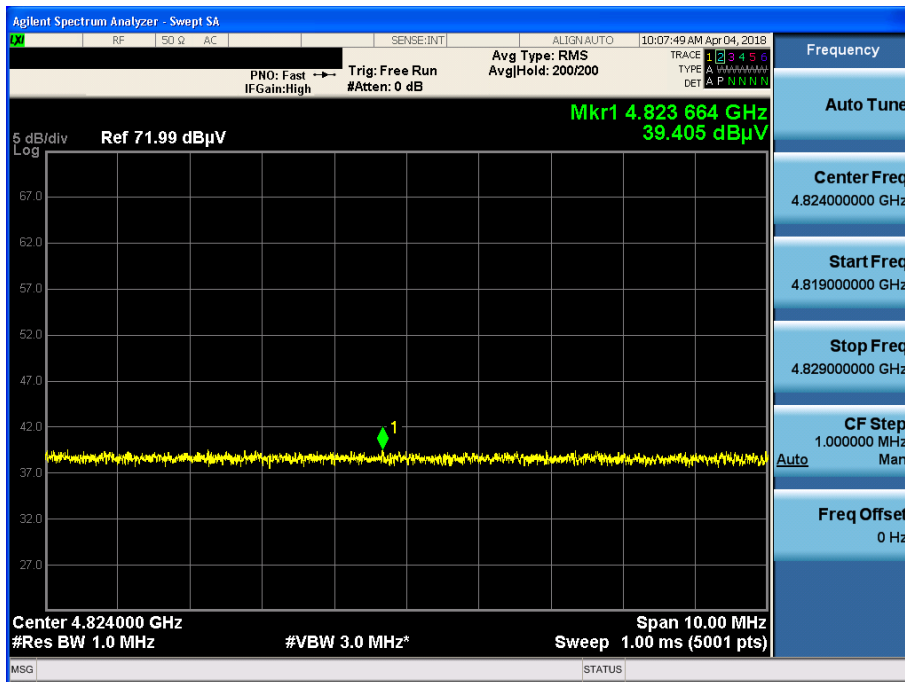
TM 6 & Lowest & X axis & Hor

Detector Mode : AV



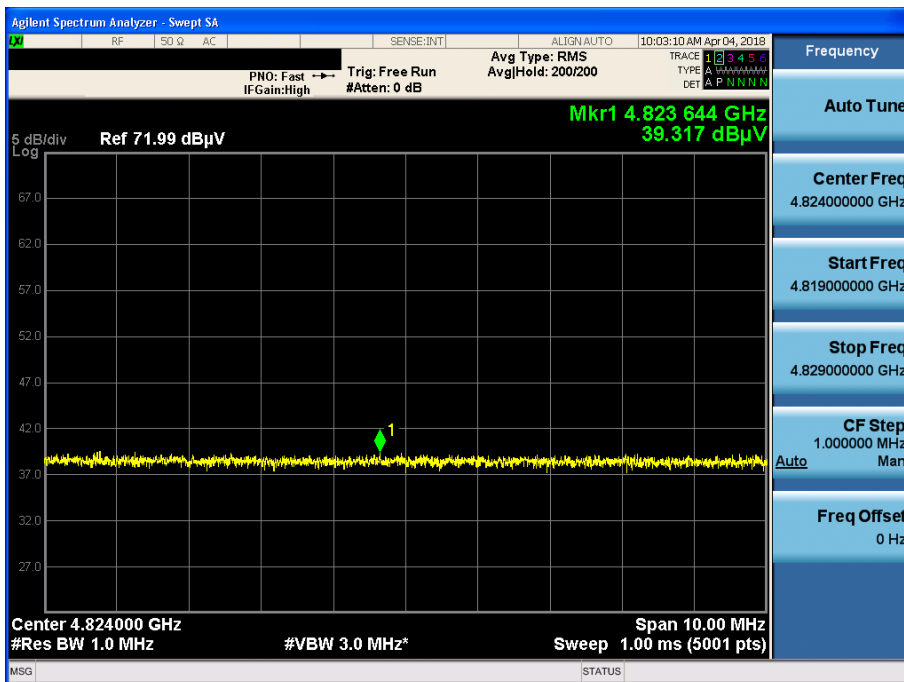
TM 7 & Lowest & X axis & Hor

Detector Mode : AV



TM 8 & Lowest & X axis & Hor

Detector Mode : AV



TM 9 & Lowest & X axis & Hor

Detector Mode : AV

