

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 1 ANT 2

Tested Frequency (MHz)	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)
2412	2386.77	H	X	PK	53.64	1.71	N/A	N/A	55.35	74.00	18.65
	2387.03	H	X	AV	45.71	1.71	N/A	N/A	47.42	54.00	6.58
	4823.99	H	X	PK	45.67	5.50	N/A	N/A	51.17	74.00	22.83
	4824.07	H	X	AV	36.15	5.50	N/A	N/A	41.65	54.00	12.35
	7234.48	H	X	PK	50.29	7.91	N/A	N/A	58.20	74.00	15.80
	7235.06	H	X	AV	43.17	7.91	N/A	N/A	51.08	54.00	2.92
2437	4874.04	H	X	PK	44.05	5.63	N/A	N/A	49.68	74.00	24.32
	4873.89	H	X	AV	34.15	5.63	N/A	N/A	39.78	54.00	14.22
	7310.69	H	X	PK	47.76	8.03	N/A	N/A	55.79	74.00	18.21
	7310.02	H	X	AV	40.44	8.03	N/A	N/A	48.47	54.00	5.53
2462	2483.63	H	X	PK	50.56	1.90	N/A	N/A	52.46	74.00	21.54
	2483.53	H	X	AV	41.65	1.90	N/A	N/A	43.55	54.00	10.45
	4924.39	H	X	PK	44.08	5.70	N/A	N/A	49.78	74.00	24.22
	4924.24	H	X	AV	33.34	5.70	N/A	N/A	39.04	54.00	14.96
	7386.23	H	X	PK	47.14	7.95	N/A	N/A	55.09	74.00	18.91
	7387.01	H	X	AV	39.59	7.95	N/A	N/A	47.54	54.00	6.46

Note.

- The radiated emissions were investigated 9kHz to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- 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
- Information of Distance Factor
For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.
- Calculation of distance factor = $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$
When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 2 ANT 1

Tested Frequency (MHz)	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)
2412	2389.86	H	X	PK	64.67	1.71	N/A	N/A	66.38	74.00	7.62
	2389.86	H	X	AV	49.33	1.71	0.18	N/A	51.22	54.00	2.78
	4824.69	H	X	PK	45.42	5.50	N/A	N/A	50.92	74.00	23.08
	4824.26	H	X	AV	33.94	5.50	0.18	N/A	39.62	54.00	14.38
2437	4873.22	H	X	PK	45.47	5.63	N/A	N/A	51.10	74.00	22.90
	4873.29	H	X	AV	34.69	5.63	0.18	N/A	40.50	54.00	13.50
2462	2483.62	H	X	PK	65.35	1.90	N/A	N/A	67.25	74.00	6.75
	2483.67	H	X	AV	47.34	1.90	0.18	N/A	49.42	54.00	4.58
	4924.05	H	X	PK	44.57	5.70	N/A	N/A	50.27	74.00	23.73
	4923.95	H	X	AV	33.79	5.70	0.18	N/A	39.67	54.00	14.33

Note.

- The radiated emissions were investigated 9kHz to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- 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
- Information of Distance Factor
For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.
- Calculation of distance factor = $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$
When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : TM 2 ANT 2

Tested Frequency (MHz)	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)
2412	2389.88	H	X	PK	62.35	1.71	N/A	N/A	64.06	74.00	9.94
	2389.84	H	X	AV	48.71	1.71	0.18	N/A	50.60	54.00	3.40
	4823.31	H	X	PK	45.23	5.50	N/A	N/A	50.73	74.00	23.27
	4823.66	H	X	AV	34.15	5.50	0.18	N/A	39.83	54.00	14.17
	7233.52	V	X	PK	44.71	7.91	N/A	N/A	52.62	74.00	21.38
	7232.28	V	X	AV	34.02	7.91	0.18	N/A	42.11	54.00	11.89
2437	4874.55	H	X	PK	44.51	5.63	N/A	N/A	50.14	74.00	23.86
	4874.02	H	X	AV	34.03	5.63	0.18	N/A	39.84	54.00	14.16
	7307.68	V	X	PK	46.78	8.03	N/A	N/A	54.81	74.00	19.19
	7308.18	V	X	AV	35.71	8.03	0.18	N/A	43.92	54.00	10.08
2462	2483.60	H	X	PK	62.71	1.90	N/A	N/A	64.61	74.00	9.39
	2483.58	H	X	AV	48.14	1.90	0.18	N/A	50.22	54.00	3.78
	4923.41	H	X	PK	44.70	5.70	N/A	N/A	50.40	74.00	23.60
	4923.58	H	X	AV	33.99	5.70	0.18	N/A	39.87	54.00	14.13
	7390.30	V	X	PK	48.84	7.95	N/A	N/A	56.79	74.00	17.21
	7388.95	V	X	AV	38.14	7.95	0.18	N/A	46.27	54.00	7.73

Note.

- The radiated emissions were investigated 9kHz to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- 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
- Information of Distance Factor
For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.
- Calculation of distance factor = $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$
When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : **TM 3** ANT 1

Tested Frequency (MHz)	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)
2412	2389.53	H	X	PK	55.70	1.71	N/A	N/A	57.41	74.00	16.59
	2389.88	H	X	AV	48.97	1.71	N/A	N/A	50.68	54.00	3.32
	4824.40	H	X	PK	44.46	5.50	N/A	N/A	49.96	74.00	24.04
	4824.39	H	X	AV	36.51	5.50	N/A	N/A	42.01	54.00	11.99
2437	4873.64	H	X	PK	45.46	5.63	N/A	N/A	51.09	74.00	22.91
	4873.39	H	X	AV	36.56	5.63	N/A	N/A	42.19	54.00	11.81
2462	2483.60	H	X	PK	60.24	1.90	N/A	N/A	62.14	74.00	11.86
	2483.55	H	X	AV	48.52	1.90	N/A	N/A	50.42	54.00	3.58
	4923.67	H	X	PK	44.78	5.70	N/A	N/A	50.48	74.00	23.52
	4923.73	H	X	AV	37.05	5.70	N/A	N/A	42.75	54.00	11.25

Note.

- The radiated emissions were investigated 9kHz to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- 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
- Information of Distance Factor
For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.
- Calculation of distance factor = $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$
When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : **TM 3** ANT 2

Tested Frequency (MHz)	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)
2412	2389.86	H	X	PK	57.32	1.71	N/A	N/A	59.03	74.00	14.97
	2389.88	H	X	AV	48.57	1.71	N/A	N/A	50.28	54.00	3.72
	4824.40	H	X	PK	44.69	5.50	N/A	N/A	50.19	74.00	23.81
	4824.01	H	X	AV	36.56	5.50	N/A	N/A	42.06	54.00	11.94
	7228.73	V	X	PK	44.41	7.91	N/A	N/A	52.32	74.00	21.68
	7231.95	V	X	AV	36.57	7.91	N/A	N/A	44.48	54.00	9.52
2437	4874.24	H	X	PK	45.03	5.63	N/A	N/A	50.66	74.00	23.34
	4874.04	H	X	AV	37.09	5.63	N/A	N/A	42.72	54.00	11.28
	7308.08	V	X	PK	47.15	8.03	N/A	N/A	55.18	74.00	18.82
	7307.63	V	X	AV	39.43	8.03	N/A	N/A	47.46	54.00	6.54
2462	2483.52	H	X	PK	59.16	1.90	N/A	N/A	61.06	74.00	12.94
	2483.58	H	X	AV	49.26	1.90	N/A	N/A	51.16	54.00	2.84
	4924.81	H	X	PK	45.67	5.70	N/A	N/A	51.37	74.00	22.63
	4924.76	H	X	AV	36.66	5.70	N/A	N/A	42.36	54.00	11.64
	7381.18	V	X	PK	43.99	7.95	N/A	N/A	51.94	74.00	22.06
	7381.08	V	X	AV	37.24	7.95	N/A	N/A	45.19	54.00	8.81

Note.

- The radiated emissions were investigated 9kHz to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- 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
- Information of Distance Factor
For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.
- Calculation of distance factor = $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$
When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : **TM 4** ANT 1

Tested Frequency (MHz)	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)
2422	2385.07	H	X	PK	56.27	1.71	N/A	N/A	57.98	74.00	16.02
	2385.07	H	X	AV	49.29	1.71	N/A	N/A	51.00	54.00	3.00
	4843.19	H	X	PK	45.90	5.55	N/A	N/A	51.45	74.00	22.55
	4843.23	H	X	AV	36.68	5.55	N/A	N/A	42.23	54.00	11.77
2437	4873.98	H	X	PK	44.38	5.63	N/A	N/A	50.01	74.00	23.99
	4873.98	H	X	AV	37.22	5.63	N/A	N/A	42.85	54.00	11.15
2452	2487.97	H	X	PK	57.23	1.90	N/A	N/A	59.13	74.00	14.87
	2488.15	H	X	AV	48.82	1.90	N/A	N/A	50.72	54.00	3.28
	4904.05	H	X	PK	44.76	5.67	N/A	N/A	50.43	74.00	23.57
	4903.86	H	X	AV	36.59	5.67	N/A	N/A	42.26	54.00	11.74

Note.

- The radiated emissions were investigated 9kHz to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- 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
- Information of Distance Factor
For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.
- Calculation of distance factor = $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$
When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : **TM 4** ANT 2

Tested Frequency (MHz)	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)
2422	2385.20	H	X	PK	56.68	1.71	N/A	N/A	58.39	74.00	15.61
	2385.17	H	X	AV	48.59	1.71	N/A	N/A	50.30	54.00	3.70
	4843.21	H	X	PK	44.64	5.55	N/A	N/A	50.19	74.00	23.81
	4843.39	H	X	AV	36.54	5.55	N/A	N/A	42.09	54.00	11.91
	7257.77	V	X	PK	43.94	7.94	N/A	N/A	51.88	74.00	22.12
	7256.50	V	X	AV	36.31	7.94	N/A	N/A	44.25	54.00	9.75
2437	4874.15	H	X	PK	45.41	5.63	N/A	N/A	51.04	74.00	22.96
	4874.17	H	X	AV	36.63	5.63	N/A	N/A	42.26	54.00	11.74
	7320.93	V	X	PK	46.81	8.05	N/A	N/A	54.86	74.00	19.14
	7321.23	V	X	AV	39.25	8.05	N/A	N/A	47.30	54.00	6.70
2452	2485.00	H	X	PK	59.83	1.90	N/A	N/A	61.73	74.00	12.27
	2485.02	H	X	AV	49.33	1.90	N/A	N/A	51.23	54.00	2.77
	4904.13	H	X	PK	45.12	5.67	N/A	N/A	50.79	74.00	23.21
	4903.77	H	X	AV	37.11	5.67	N/A	N/A	42.78	54.00	11.22
	7355.30	V	X	PK	44.20	7.99	N/A	N/A	52.19	74.00	21.81
	7356.93	V	X	AV	36.32	7.99	N/A	N/A	44.31	54.00	9.69

Note.

- The radiated emissions were investigated 9kHz to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- 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
- Information of Distance Factor
For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.
- Calculation of distance factor = $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$
When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

Radiated Spurious Emissions data(9 kHz ~ 25 GHz) : **TM 5** MIMO

Tested Frequency (MHz)	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)
2412	2389.72	H	X	PK	58.81	1.71	N/A	N/A	60.52	74.00	13.48
	2389.79	H	X	AV	49.33	1.71	N/A	N/A	51.04	54.00	2.96
	4823.55	H	X	PK	44.56	5.50	N/A	N/A	50.06	74.00	23.94
	4823.48	H	X	AV	36.52	5.50	N/A	N/A	42.02	54.00	11.98
	7236.12	H	X	PK	44.01	7.91	N/A	N/A	51.92	74.00	22.08
	7235.55	H	X	AV	36.74	7.91	N/A	N/A	44.65	54.00	9.35
2437	4873.59	H	X	PK	45.07	5.63	N/A	N/A	50.70	74.00	23.30
	4873.78	H	X	AV	37.27	5.63	N/A	N/A	42.90	54.00	11.10
	7313.78	H	X	PK	45.02	8.03	N/A	N/A	53.05	74.00	20.95
	7313.67	H	X	AV	38.80	8.03	N/A	N/A	46.83	54.00	7.17
2462	2483.70	H	X	PK	58.59	1.90	N/A	N/A	60.49	74.00	13.51
	2483.58	H	X	AV	48.80	1.90	N/A	N/A	50.70	54.00	3.30
	4923.64	H	X	PK	44.87	5.70	N/A	N/A	50.57	74.00	23.43
	4923.85	H	X	AV	36.26	5.70	N/A	N/A	41.96	54.00	12.04
	7391.78	H	X	PK	44.48	7.95	N/A	N/A	52.43	74.00	21.57
	7392.15	H	X	AV	37.10	7.95	N/A	N/A	45.05	54.00	8.95

Note.

- The radiated emissions were investigated 9kHz to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- 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
- Information of Distance Factor
For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.
- Calculation of distance factor = $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$
When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

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

Tested Frequency (MHz)	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)
2412	2389.63	H	X	PK	57.95	1.71	N/A	N/A	59.66	74.00	14.34
	2389.76	H	X	AV	50.00	1.71	N/A	N/A	51.71	54.00	2.29
	4843.23	H	X	PK	46.26	5.55	N/A	N/A	51.81	74.00	22.19
	4843.31	H	X	AV	36.81	5.55	N/A	N/A	42.36	54.00	11.64
	7266.59	H	X	PK	44.18	7.94	N/A	N/A	52.12	74.00	21.88
	7266.48	H	X	AV	36.21	7.94	N/A	N/A	44.15	54.00	9.85
2437	4873.82	H	X	PK	45.15	5.63	N/A	N/A	50.78	74.00	23.22
	4874.29	H	X	AV	36.60	5.63	N/A	N/A	42.23	54.00	11.77
	7307.90	H	X	PK	44.12	8.05	N/A	N/A	52.17	74.00	21.83
	7309.07	H	X	AV	37.91	8.05	N/A	N/A	45.96	54.00	8.04
2462	2483.77	H	X	PK	58.73	1.90	N/A	N/A	60.63	74.00	13.37
	2483.65	H	X	AV	48.55	1.90	N/A	N/A	50.45	54.00	3.55
	4903.95	H	X	PK	45.31	5.67	N/A	N/A	50.98	74.00	23.02
	4903.83	H	X	AV	36.67	5.67	N/A	N/A	42.34	54.00	11.66
	7349.97	H	X	PK	43.23	7.99	N/A	N/A	51.22	74.00	22.78
	7351.80	H	X	AV	36.73	7.99	N/A	N/A	44.72	54.00	9.28

Note.

- The radiated emissions were investigated 9kHz to 25GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- 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
- Information of Distance Factor
For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.
- Calculation of distance factor = $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$
When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

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 channel

Results of Conducted Emission

DTNC

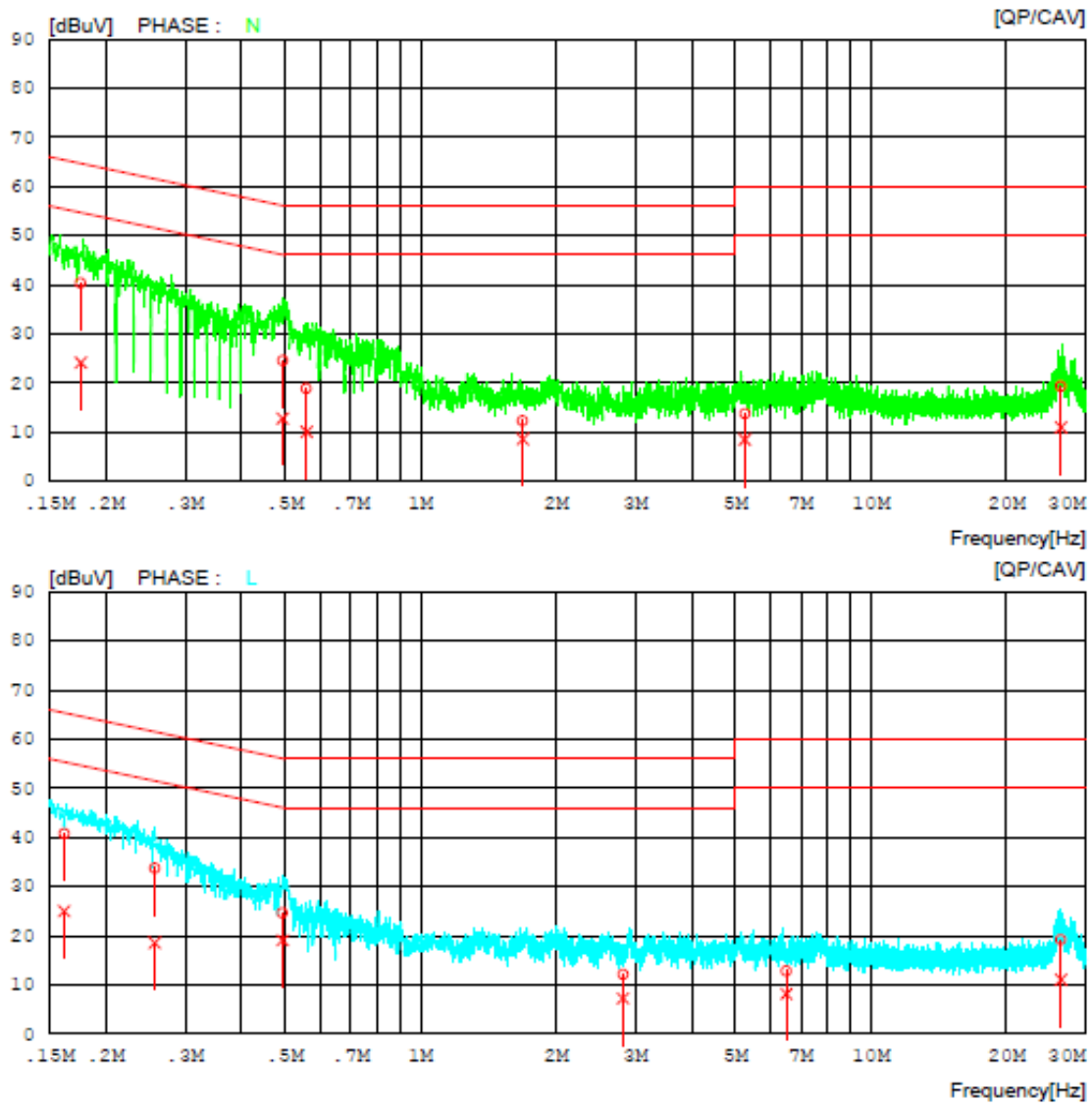
Date 2019-10-18

Order No.
Model No. TELEGENIC-AML-1
Serial No.
Test Condition 2.4G WLAN

Reference No.
Power Supply 120 V, 60 Hz
Temp/Humi. 23 °C / 35 %
Operator J.J.LEE

Memo

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



AC Line Conducted Emissions (List)

TM 5 & Middle channel

Results of Conducted Emission

DTNC

Date 2019-10-18

Order No.		Reference No.	
Model No.	TELEGENIC-AML-1	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 'C / 35 %
Test Condition	2.4G WLAN	Operator	J.J.LEE

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	0.17620	30.44	14.24	9.94	40.38	24.18	64.66	54.66	24.28	30.48	N
2	0.49454	14.63	2.86	9.95	24.58	12.81	56.09	46.09	31.51	33.28	N
3	0.55853	8.89	0.13	9.95	18.84	10.08	56.00	46.00	37.16	35.92	N
4	1.68660	2.29	-1.46	10.01	12.30	8.55	56.00	46.00	43.70	37.45	N
5	5.24680	3.55	-1.68	10.16	13.71	8.48	60.00	50.00	46.29	41.52	N
6	26.40200	8.63	0.29	10.68	19.31	10.97	60.00	50.00	40.69	39.03	N
7	0.16195	30.81	15.05	9.94	40.75	24.99	65.36	55.36	24.61	30.37	L
8	0.25717	23.81	8.58	9.94	33.75	18.52	61.52	51.52	27.77	33.00	L
9	0.49408	14.71	9.08	9.95	24.66	19.03	56.10	46.10	31.44	27.07	L
10	2.81840	2.09	-2.84	10.06	12.15	7.22	56.00	46.00	43.85	38.78	L
11	6.49060	2.57	-2.08	10.20	12.77	8.12	60.00	50.00	47.23	41.88	L
12	26.39060	8.54	0.40	10.65	19.19	11.05	60.00	50.00	40.81	38.95	L

9. LIST OF TEST EQUIPMENT

Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	19/06/26	20/06/26	US47360812
Spectrum Analyzer	Agilent Technologies	N9020A	19/06/26	20/06/26	MY46471251
DC Power Supply	Agilent Technologies	66332A	18/12/19	19/12/19	US37476998
Multimeter	FLUKE	17B	18/12/18	19/12/18	26030065WS
Signal Generator	Rohde Schwarz	SMBV100A	18/12/19	19/12/19	255571
Signal Generator	ANRITSU	MG3695C	18/12/10	19/12/10	173501
Thermohygrometer	BODYCOM	BJ5478	18/12/27	19/12/27	120612-1
Thermohygrometer	BODYCOM	BJ5478	18/12/27	19/12/27	120612-2
HYGROMETER	TESTO	608-H1	19/01/31	20/01/31	34862883
Loop Antenna	Schwarzbeck	FMZB1513	18/01/30	20/01/30	1513-128
BILOG ANTENNA	Schwarzbeck	VULB 9160	19/04/23	21/04/23	9160-3362
Horn Antenna	ETS-Lindgren	3117	18/05/10	20/05/10	00140394
Horn Antenna	A.H.Systems Inc.	SAS-574	19/07/03	21/07/03	155
PreAmplifier	tsj	8447D	18/12/18	19/12/18	2944A07774
PreAmplifier	tsj	8449B	19/06/27	20/06/27	3008A02108
High Pass Filter	Wainwright Instruments	WHKX12-2580-3000-18000-80SS	19/06/24	20/06/24	3
Power Meter & Wide Bandwidth Sensor	Anritsu	ML2496A MA2411B	18/12/19	19/12/19	1338004 1306053
Attenuator	SMAJK	SMAJK-50-10	19/06/25	20/06/25	3-50-10
LISN	SCHWARZBECK	NNLK 8121	19/05/23	20/05/23	06183
RECEIVER	ROHDE&SCHWARZ	ESCI7	19/01/30	20/01/30	100910
PULSE LIMITER	ROHDE&SCHWARZ	ESH3-Z2	19/09/17	20/09/17	101333
Cable	DT&C	Cable	19/01/15	20/01/15	RF-56
Cable	DT&C	Cable	19/01/16	20/01/16	M-01
Cable	HUBER+SUHNER	SUCOFLEX 104	19/01/16	20/01/16	M-03
Cable	Junkosha	MWX315	18/11/19	19/11/19	M-05
Cable	Junkosha	MWX221	18/11/19	19/11/19	M-06
Cable	DT&C	Cable	19/01/16	20/01/16	RF-82

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

Duty cycle plots

▪ Test Procedure

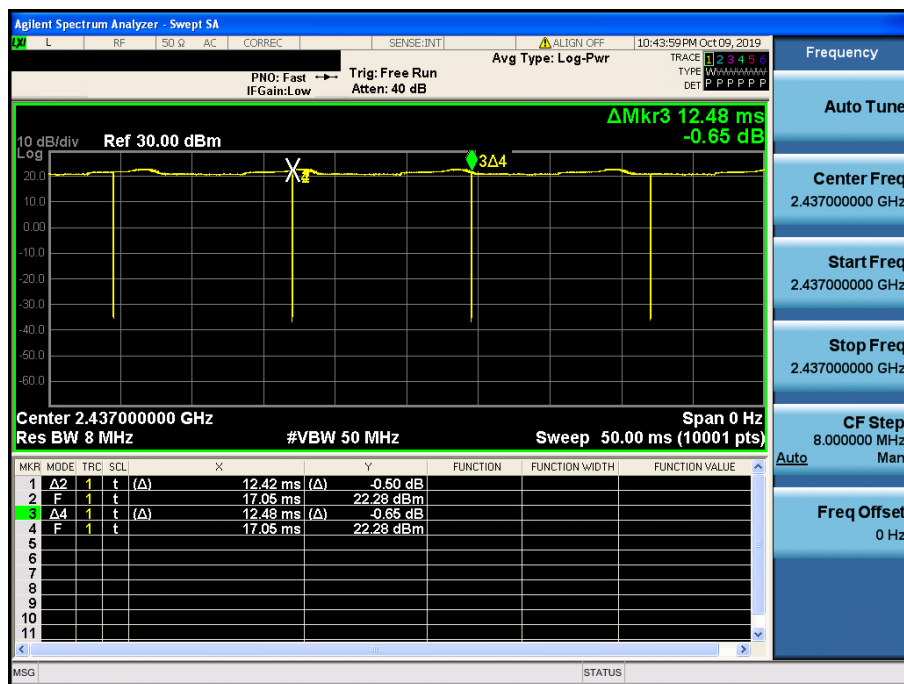
Duty Cycle was measured using **section 6.0 b) of KDB558074 D01v05r02** :

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.)

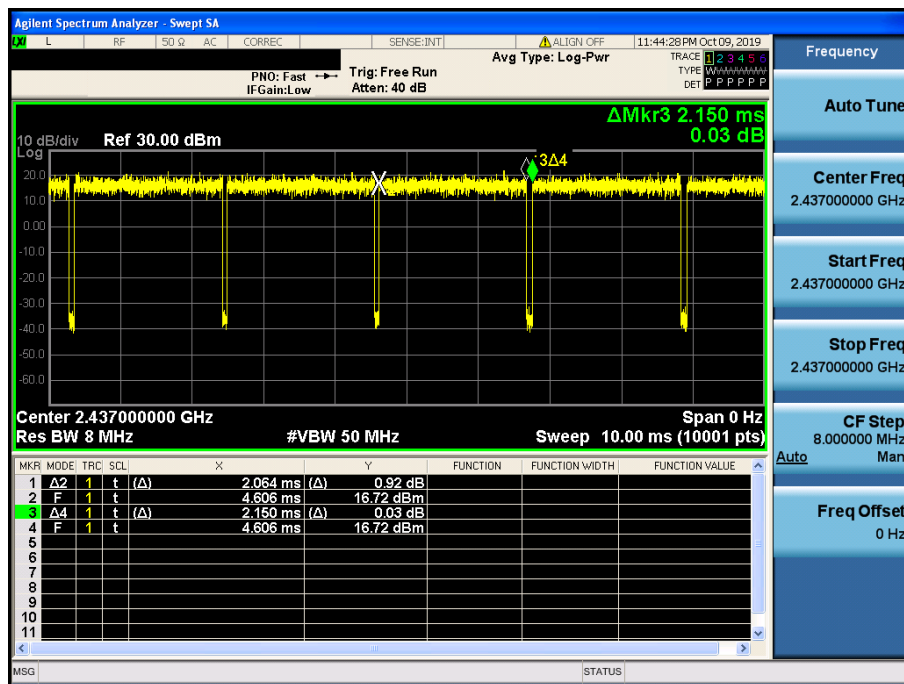
Duty Cycle

TM 1 & ANT 1 & 2437 MHz & 1 Mbps



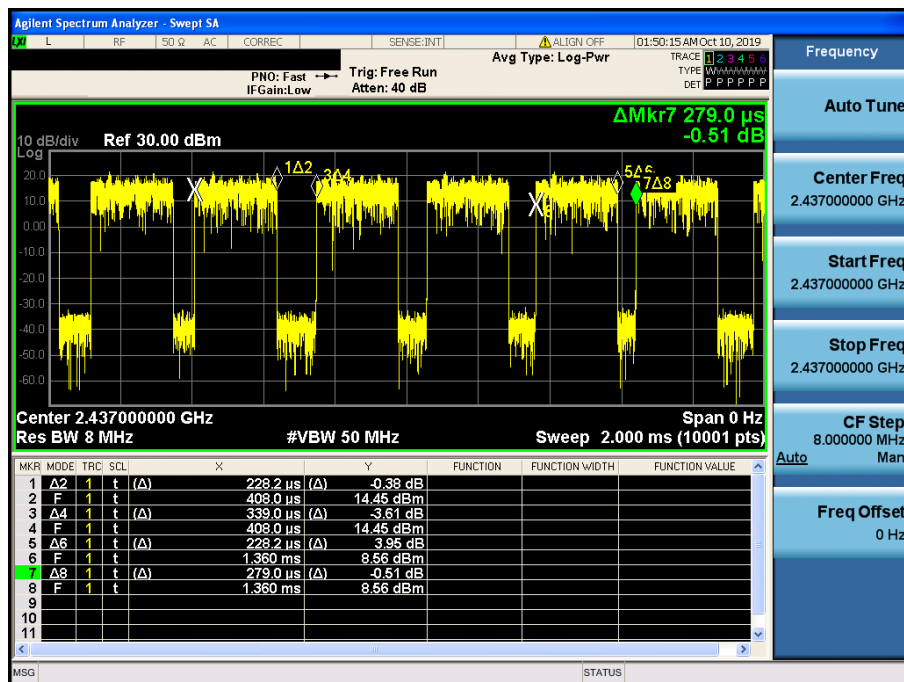
Duty Cycle

TM 2 & ANT 1 & 2437 MHz & 6 Mbps



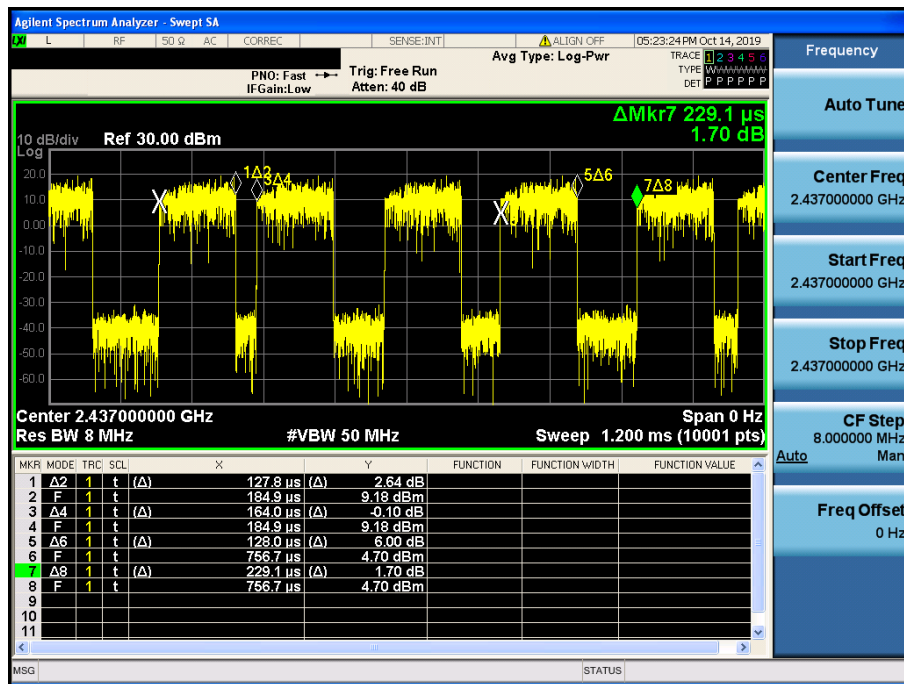
Duty Cycle

TM 3 & ANT 1 & 2437 MHz & MCS 7



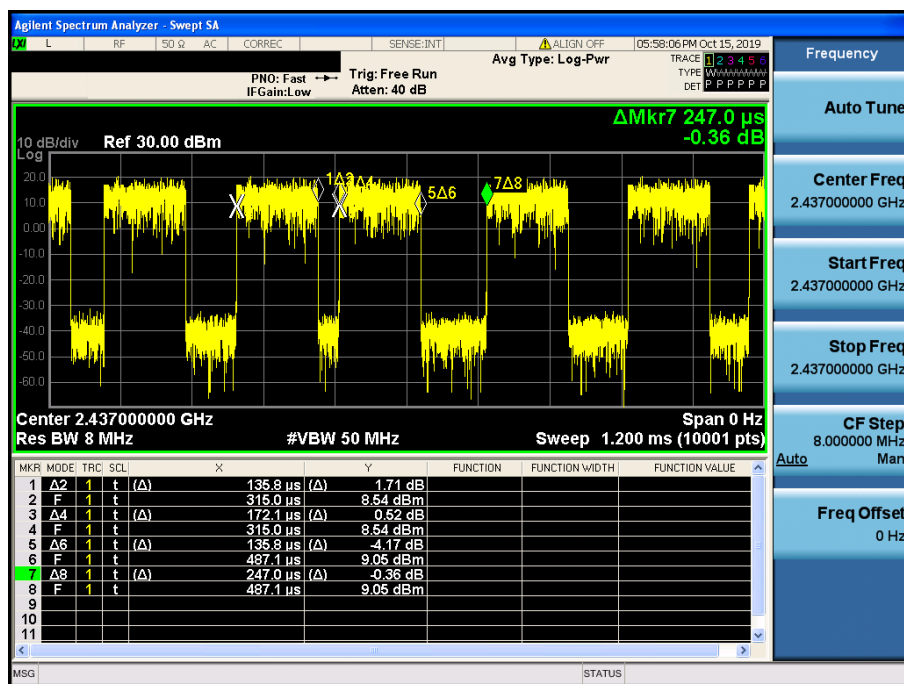
Duty Cycle

TM 4 & ANT 1 & 2437 MHz & MCS 7



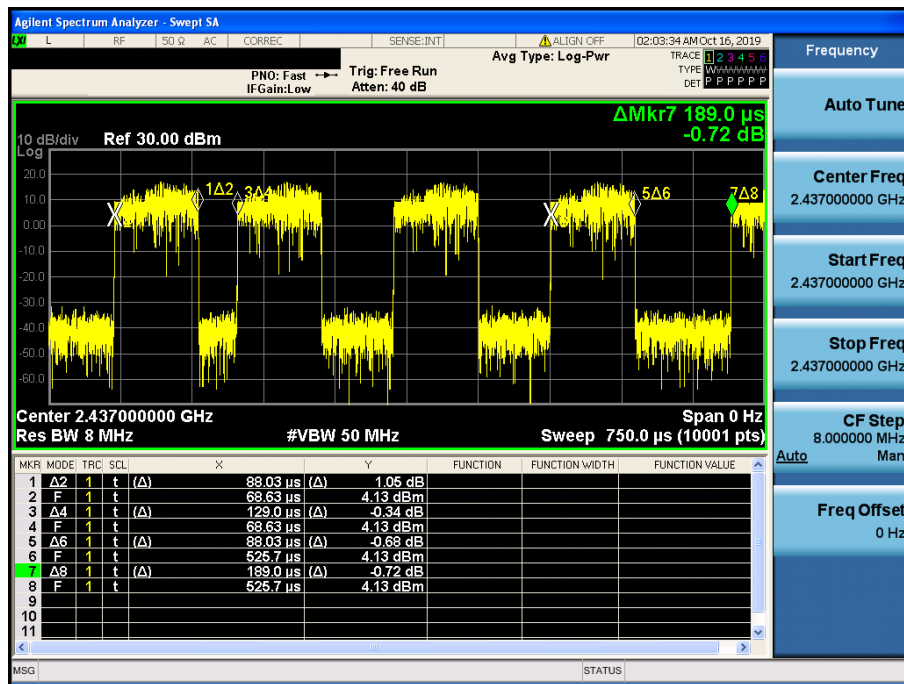
Duty Cycle

TM 5 & ANT 1 & 2437 MHz & MCS 15



Duty Cycle

TM 6 & ANT 1 & 2437 MHz & MCS 15

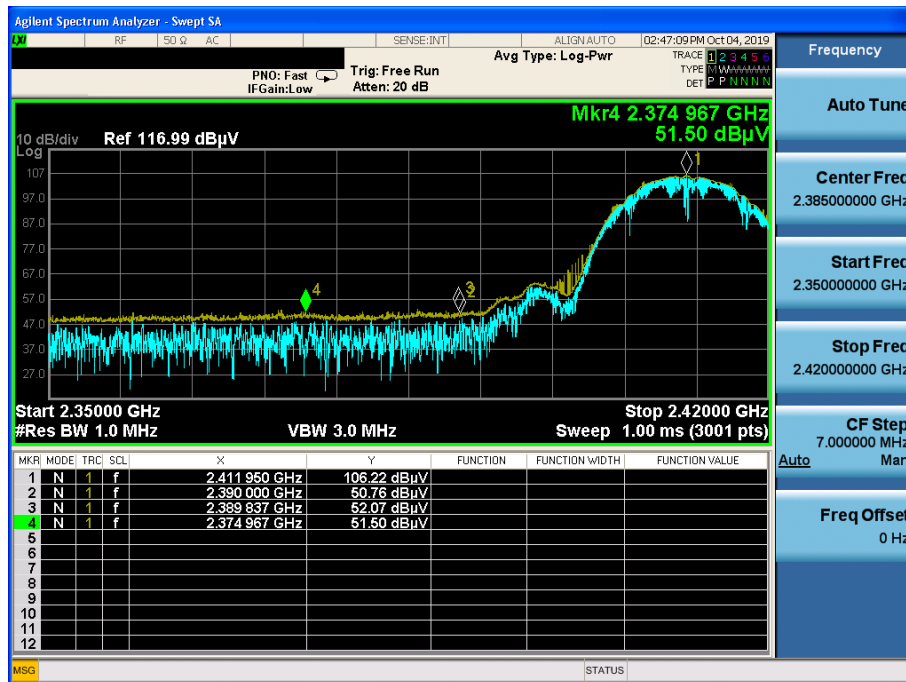


APPENDIX I

Unwanted Emissions (Radiated) Test Plot _ Normal

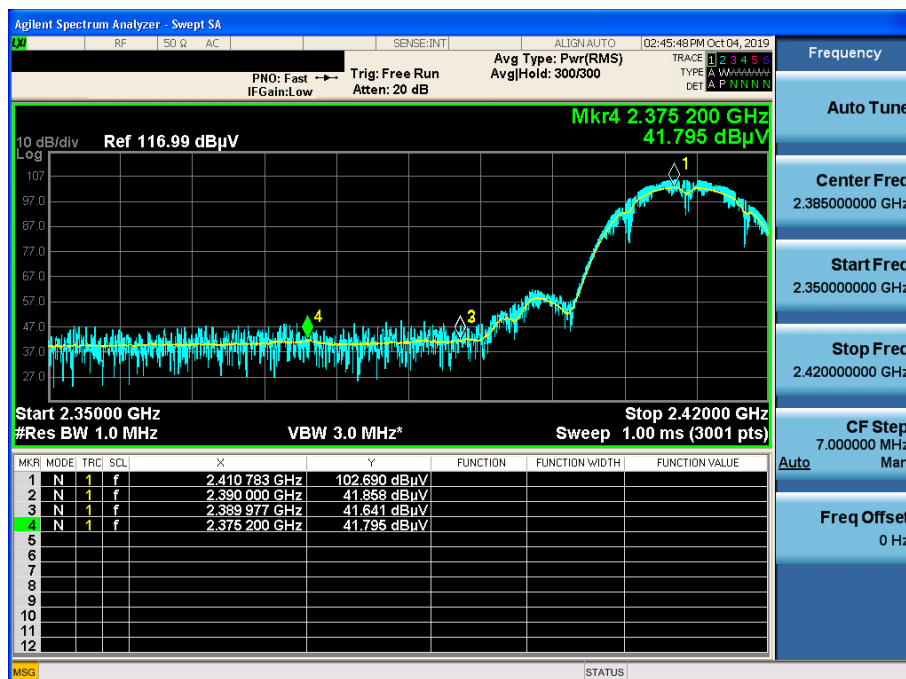
TM 1 & 2412 & X axis & Hor & ANT 1

Detector Mode : PK



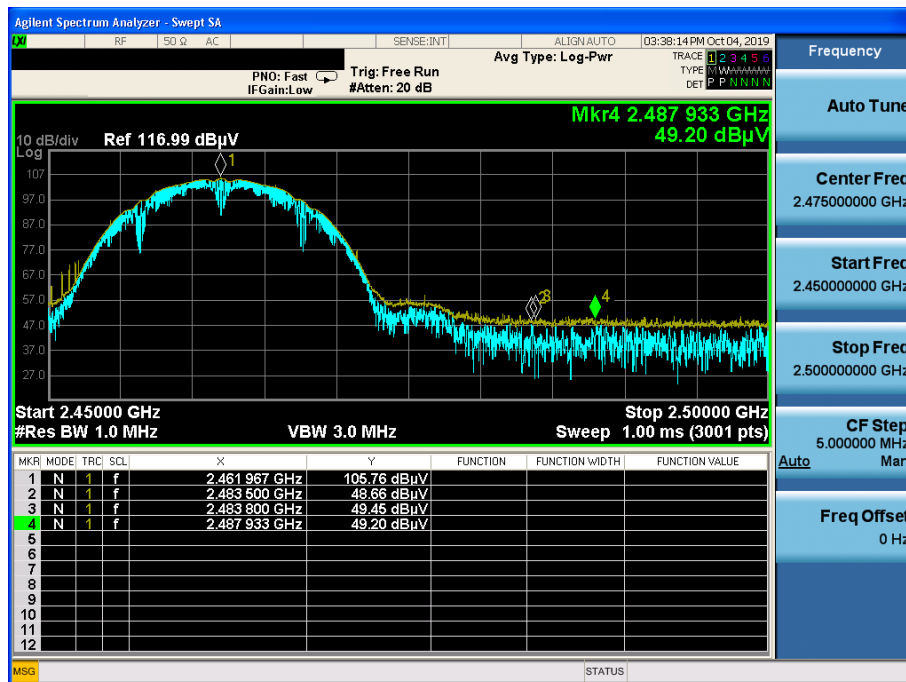
TM 1 & 2412 & X axis & Hor & ANT 1

Detector Mode : AV



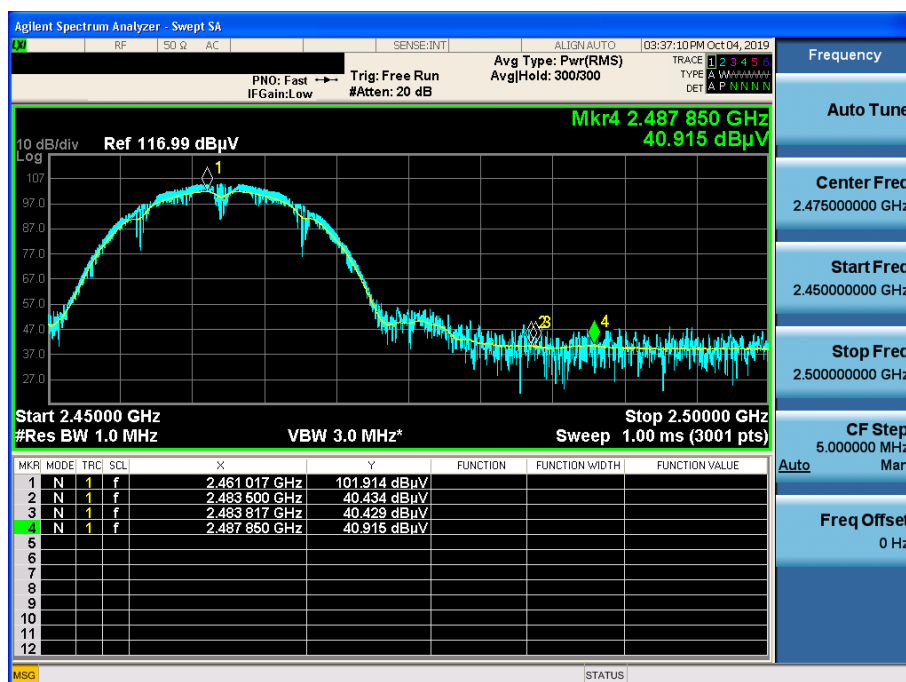
TM 1 & 2462 & X axis & Hor & ANT 1

Detector Mode : PK



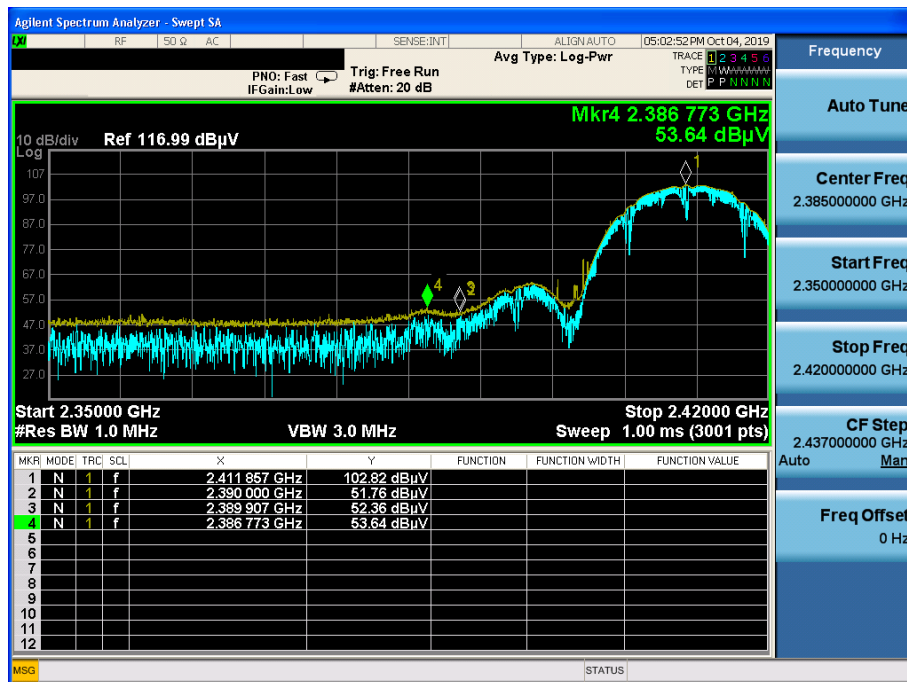
TM 1 & 2462 & X axis & Hor & ANT 1

Detector Mode : AV



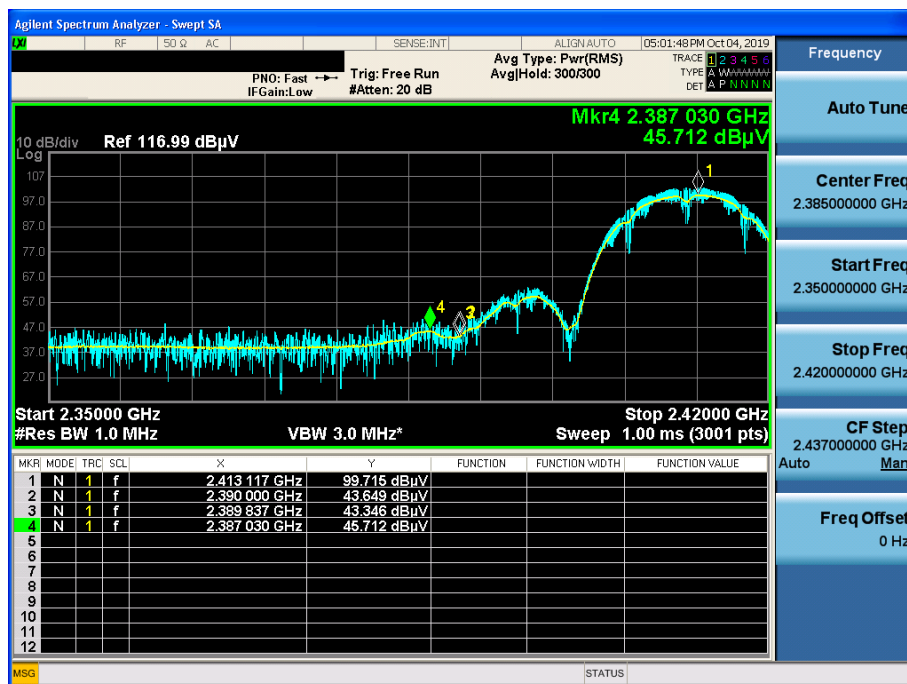
TM 1 & 2412 & X axis & Hor & ANT 2

Detector Mode : PK

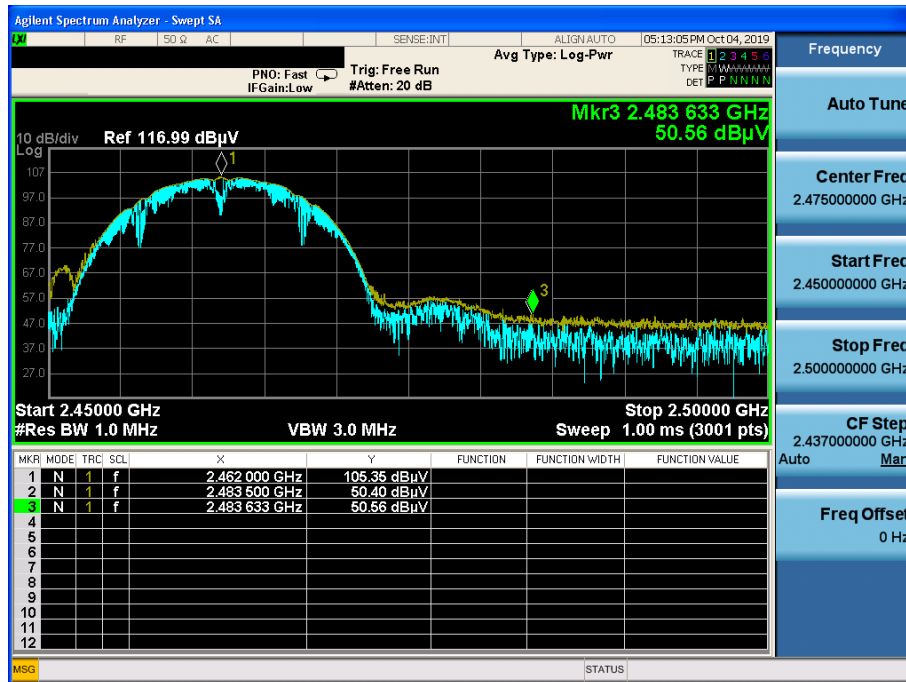


TM 1 & 2412 & X axis & Hor & ANT 2

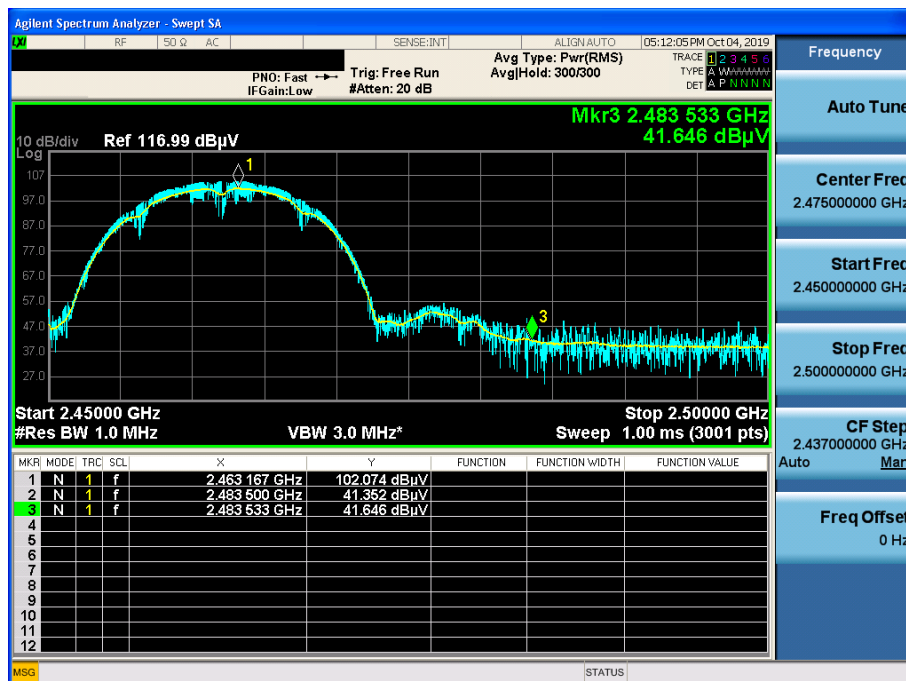
Detector Mode : AV



Detector Mode : PK

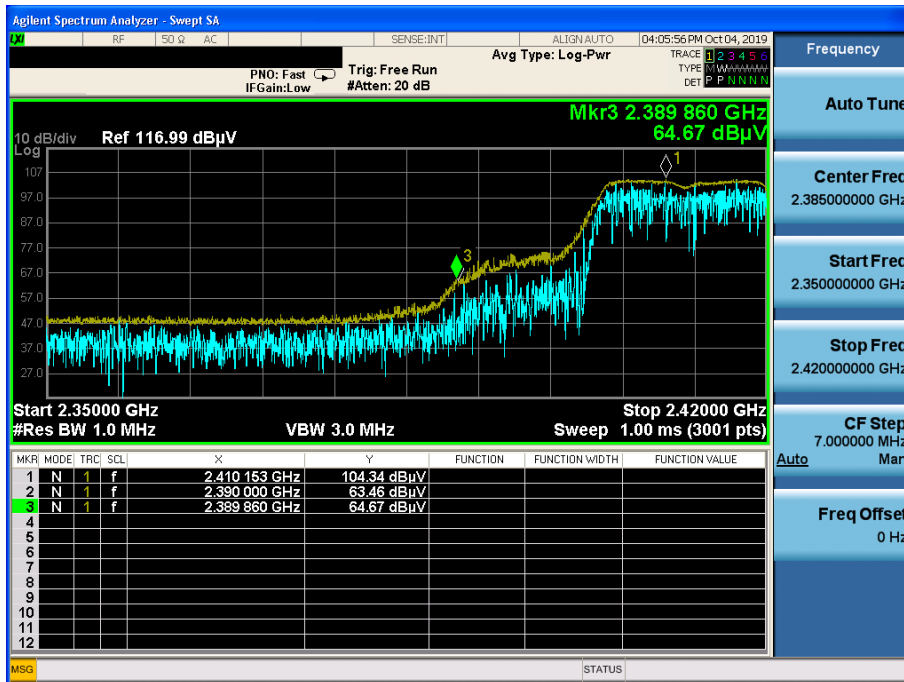


Detector Mode : AV



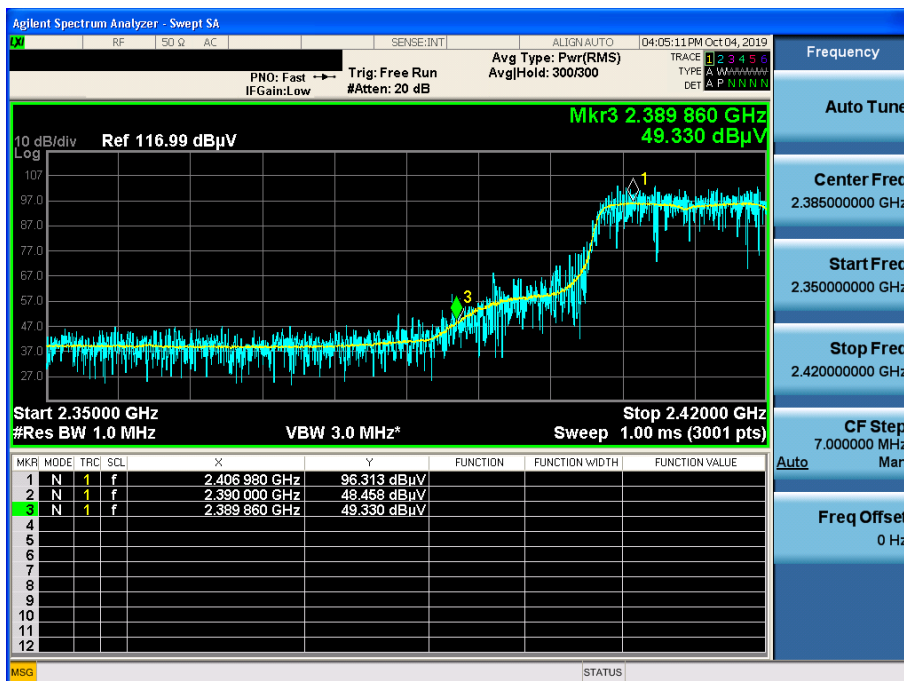
TM 2 & 2412 & X axis & Hor & ANT 1

Detector Mode : PK



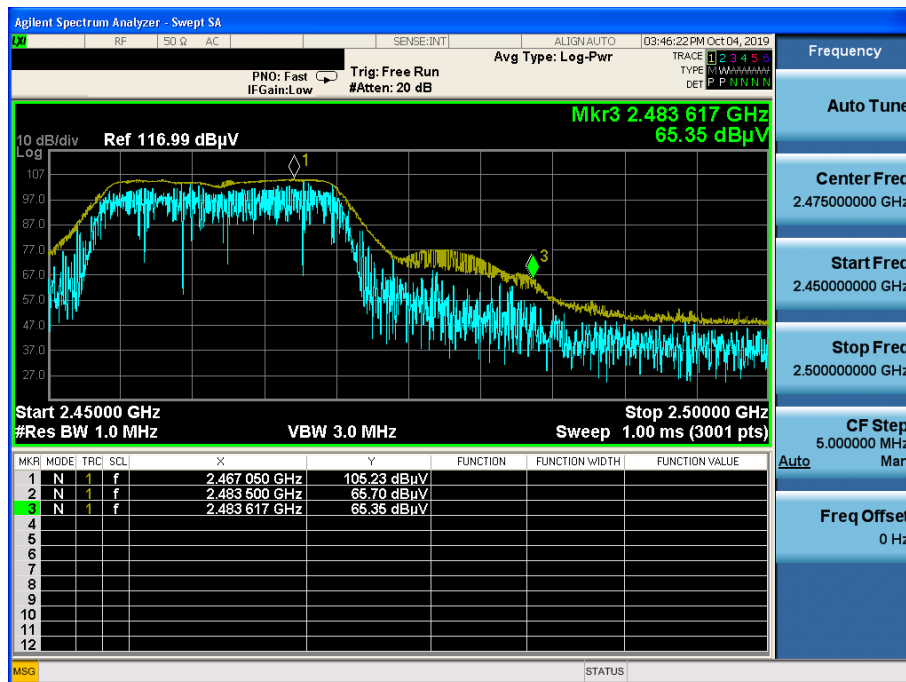
TM 2 & 2412 & X axis & Hor & ANT 1

Detector Mode : AV



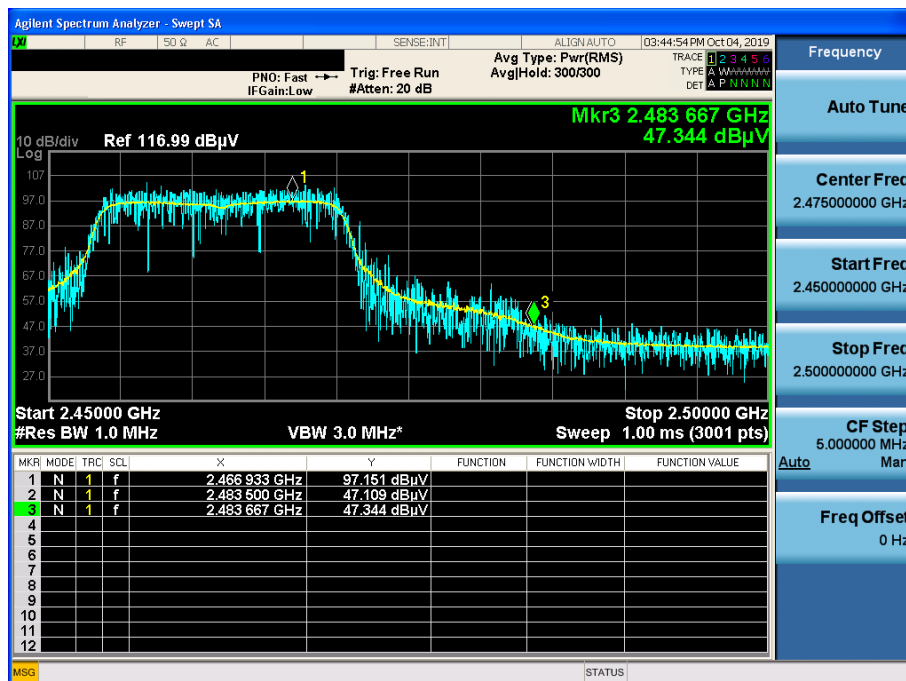
TM 2 & 2462 & X axis & Hor & ANT 1

Detector Mode : PK

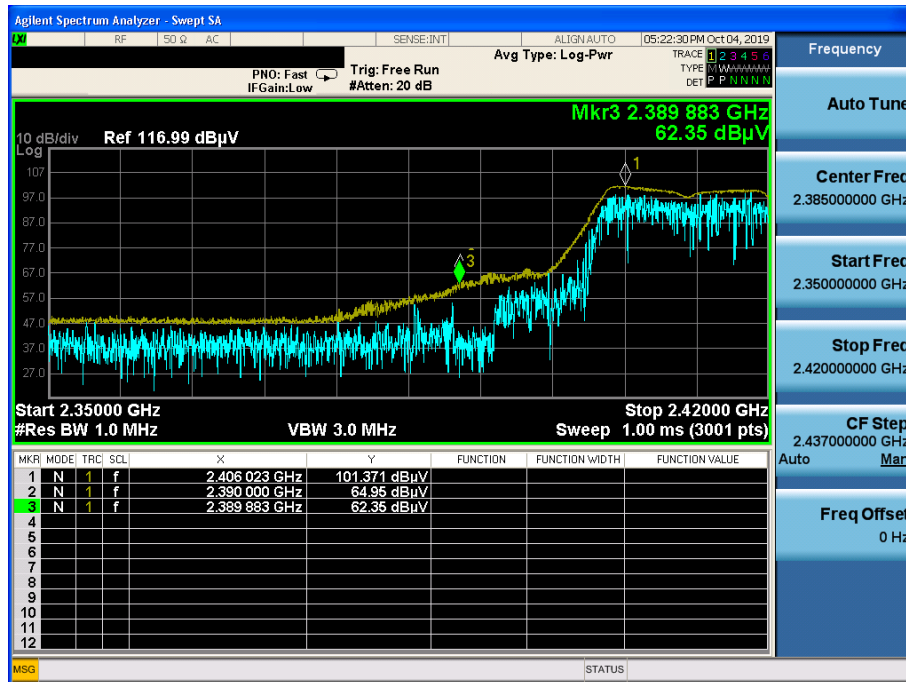


TM 2 & 2462 & X axis & Hor & ANT 1

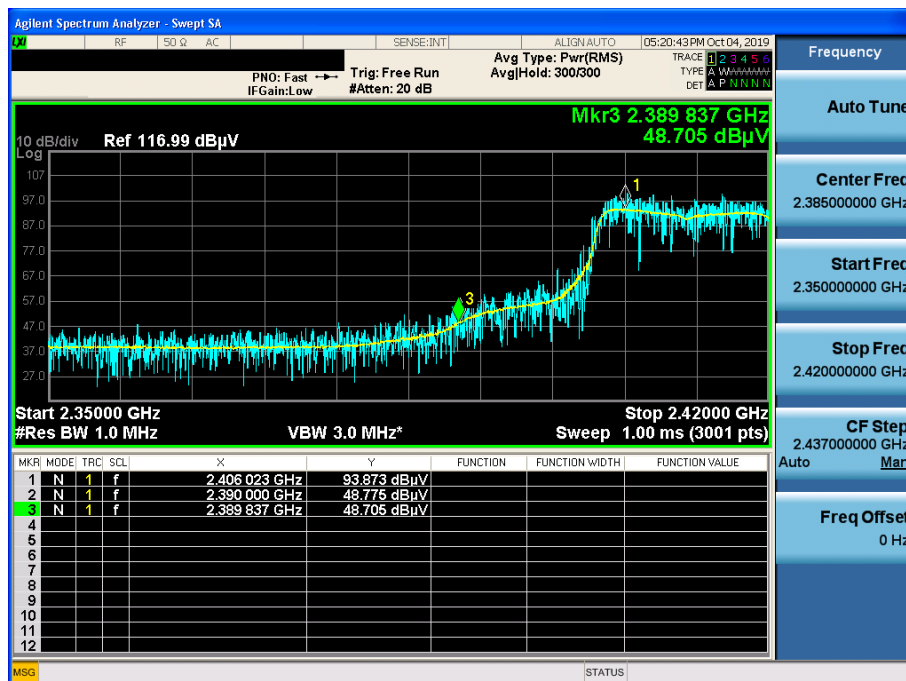
Detector Mode : AV



Detector Mode : PK

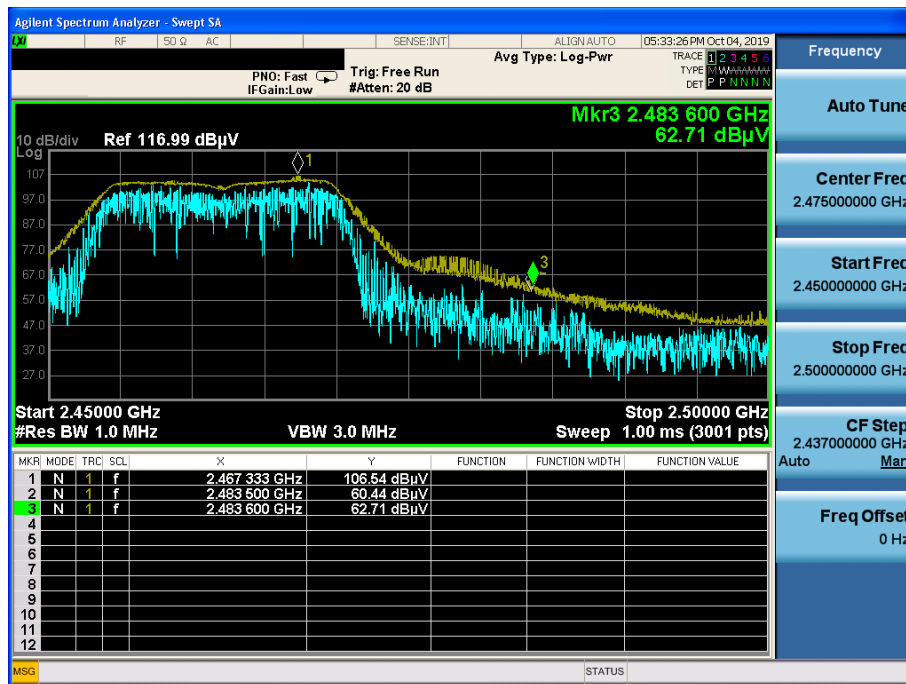


Detector Mode : AV



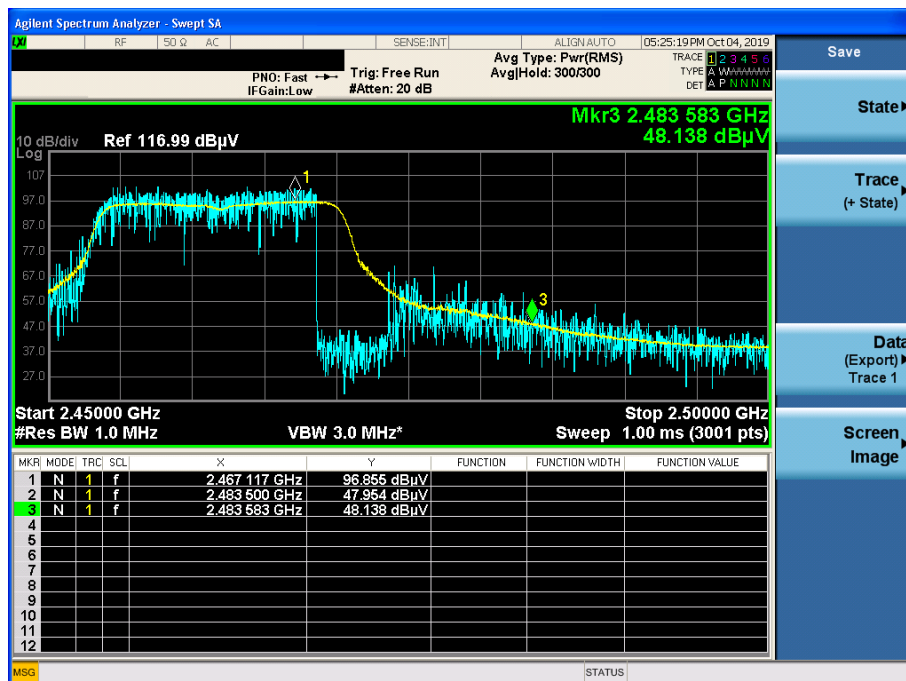
TM 2 & 2462 & X axis & Hor & ANT 2

Detector Mode : PK



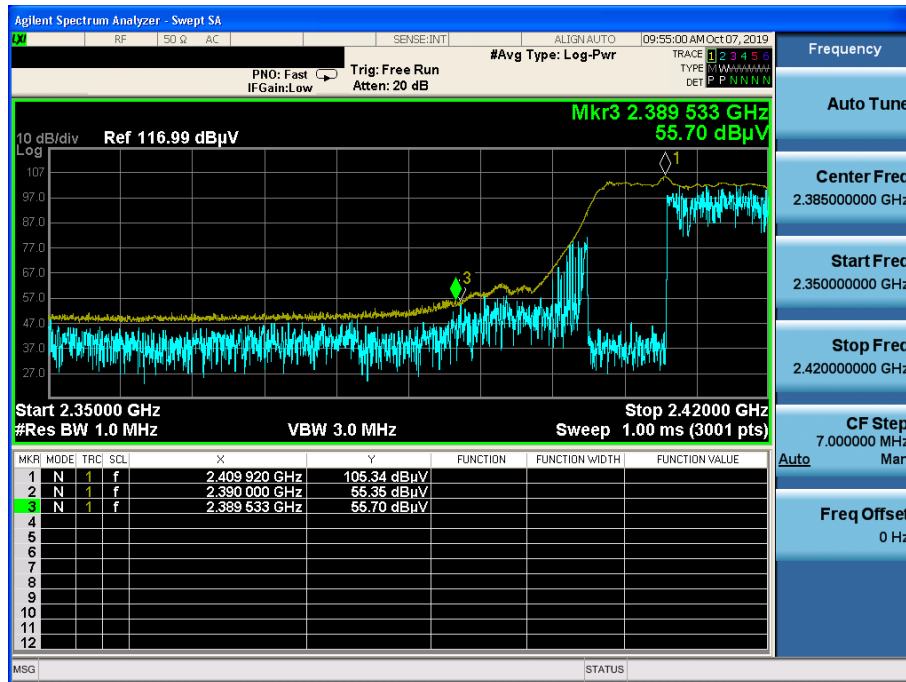
TM 2 & 2462 & X axis & Hor & ANT 2

Detector Mode : AV



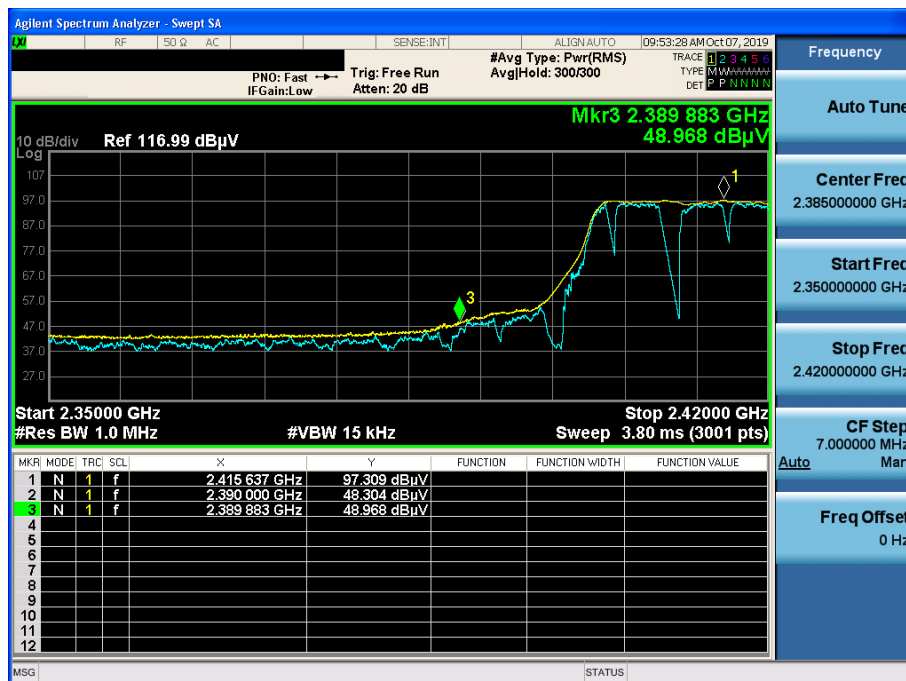
TM 3 & 2412 & X axis & Hor & ANT 1

Detector Mode : PK



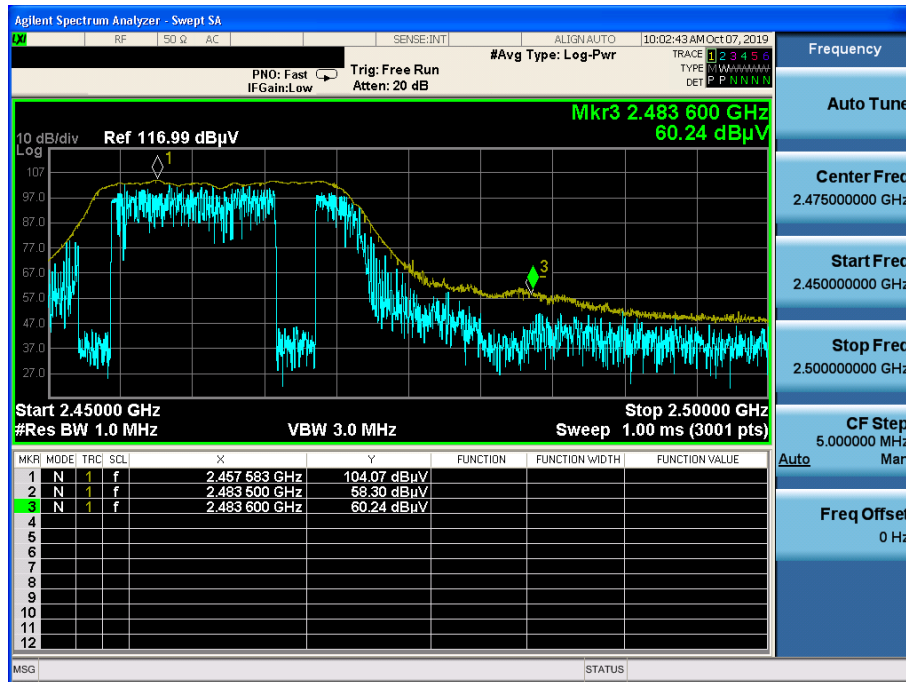
TM 3 & 2412 & X axis & Hor & ANT 1

Detector Mode : AV



TM 3 & 2462 & X axis & Hor & ANT 1

Detector Mode : PK

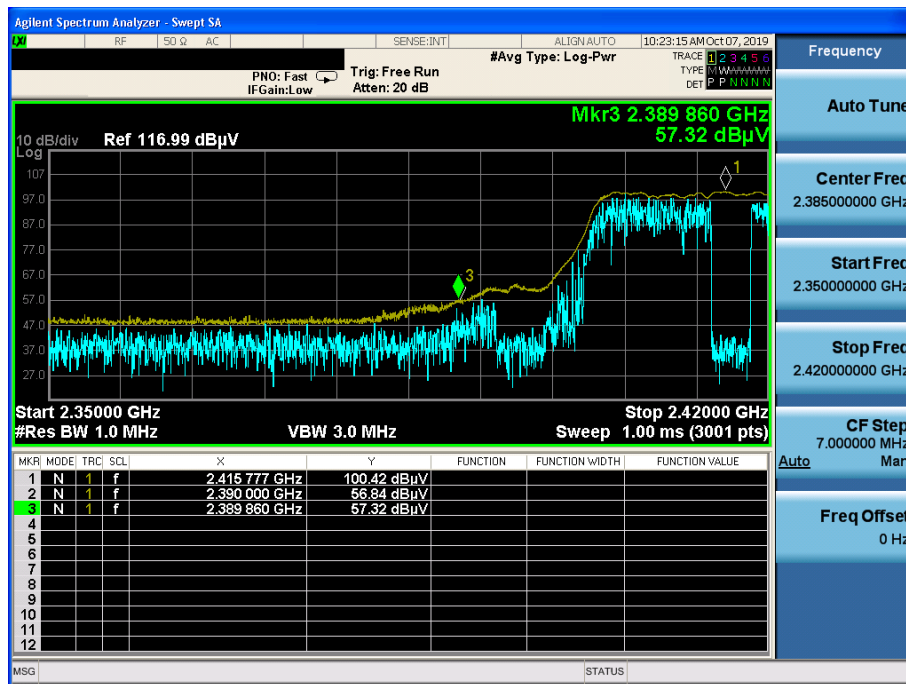


TM 3 & 2462 & X axis & Hor & ANT 1

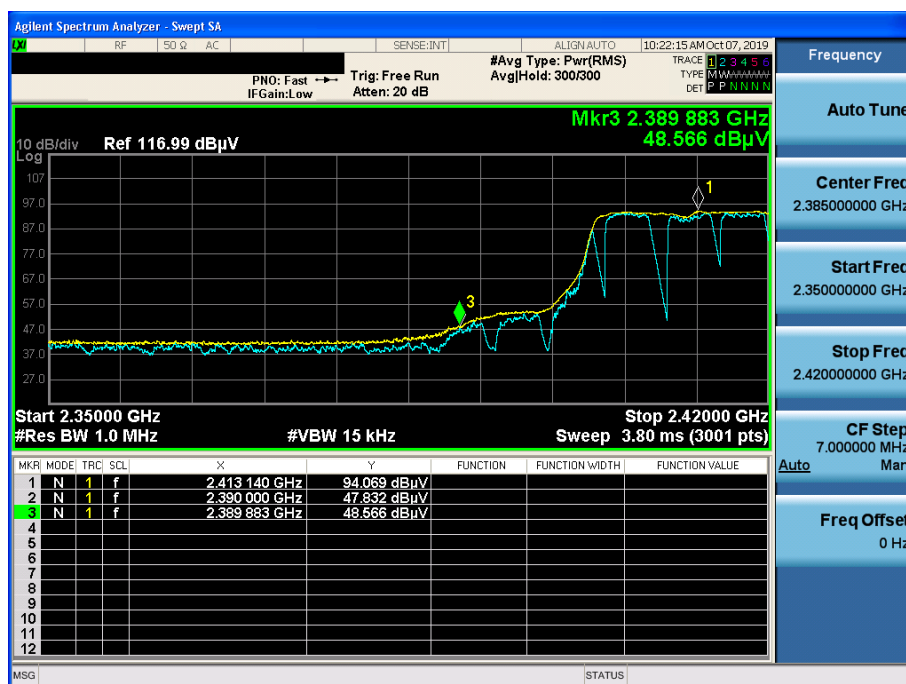
Detector Mode : AV



Detector Mode : PK

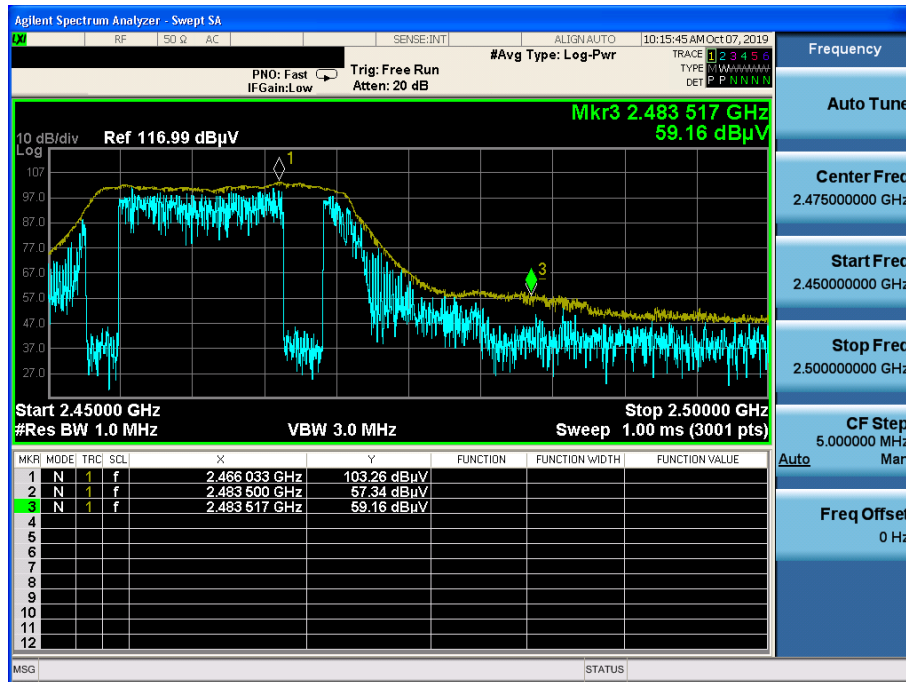


Detector Mode : AV



TM 3 & 2462 & X axis & Hor & ANT 2

Detector Mode : PK



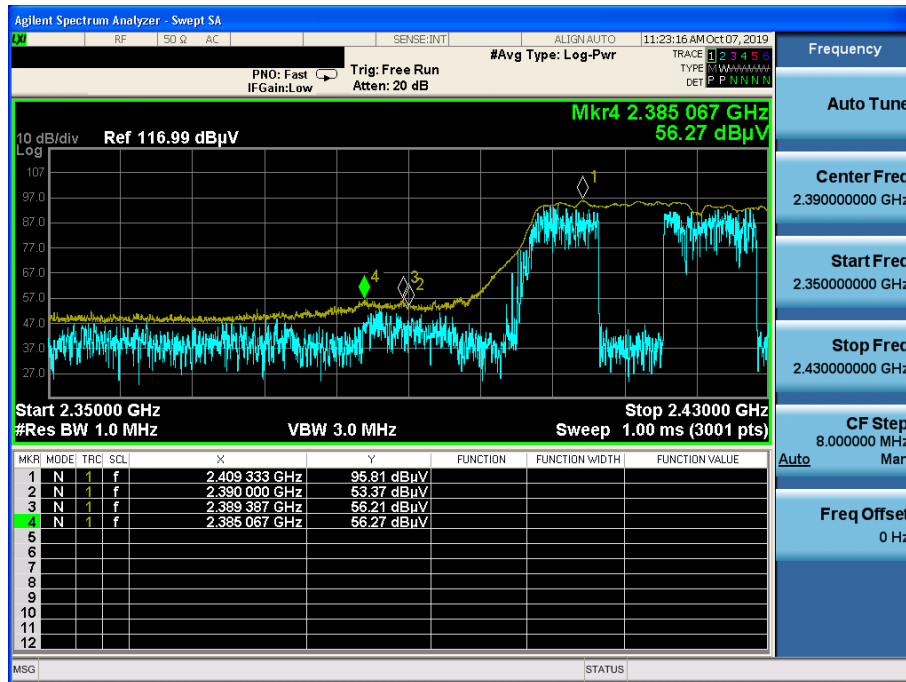
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Detector Mode : AV



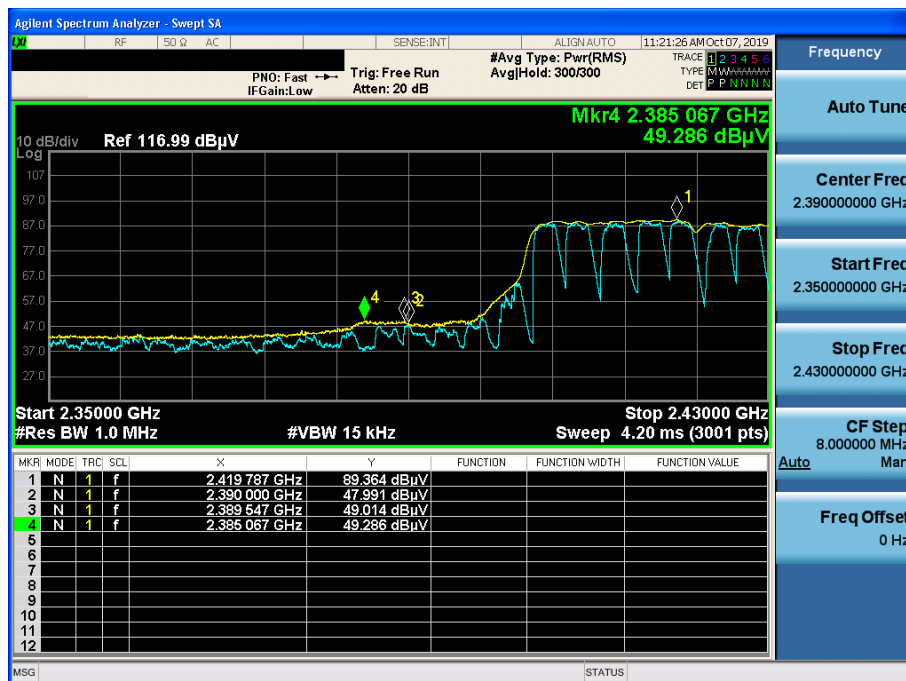
TM 4 & 2422 & X axis & Hor & ANT 1

Detector Mode : PK



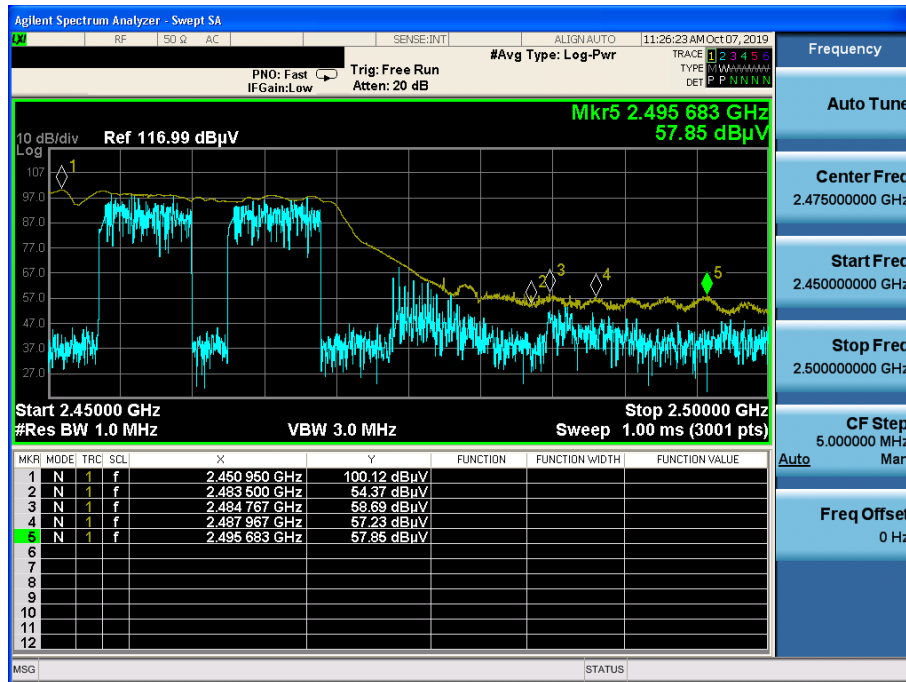
TM 4 & 2422 & X axis & Hor & ANT 1

Detector Mode : AV



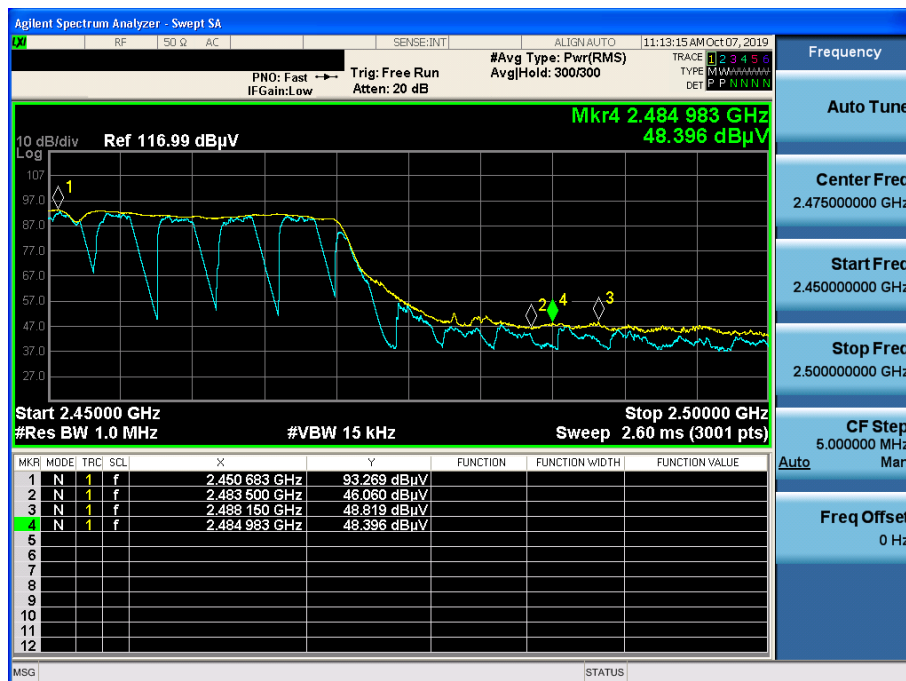
TM 4 & 2452 & X axis & Hor & ANT 1

Detector Mode : PK



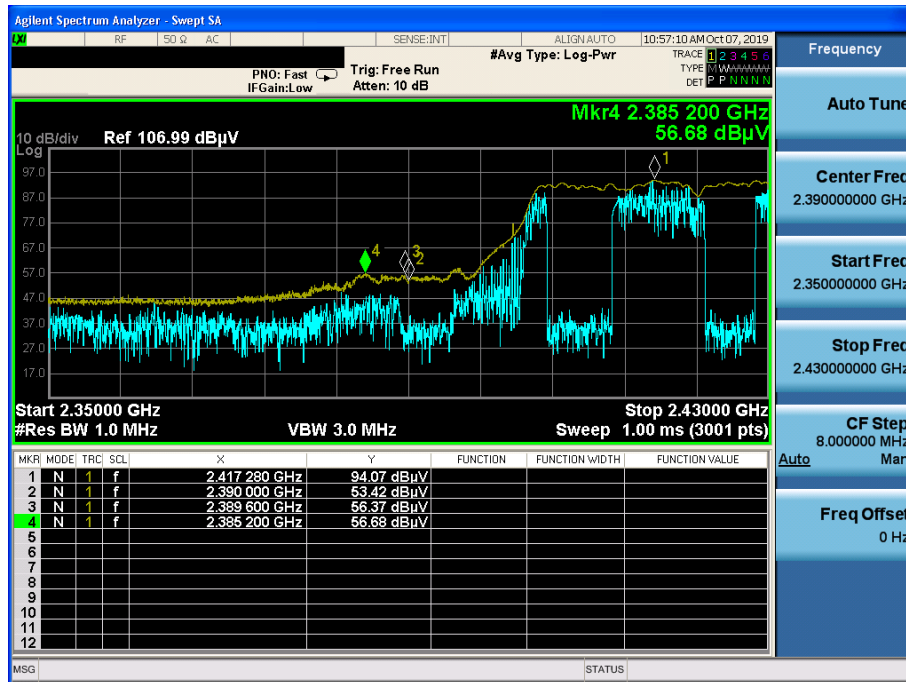
TM 4 & 2452 & X axis & Hor & ANT 1

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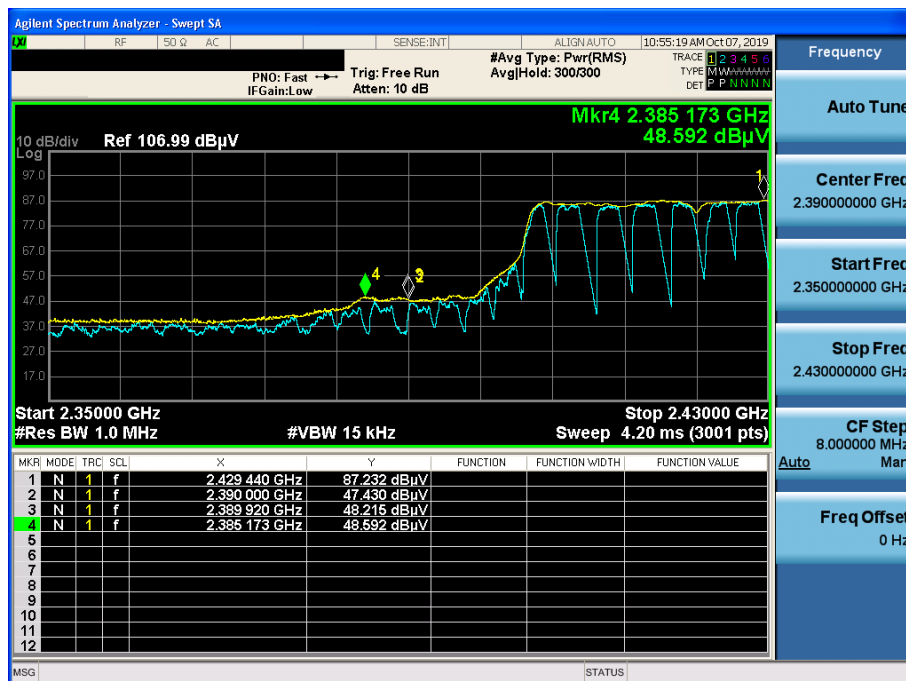
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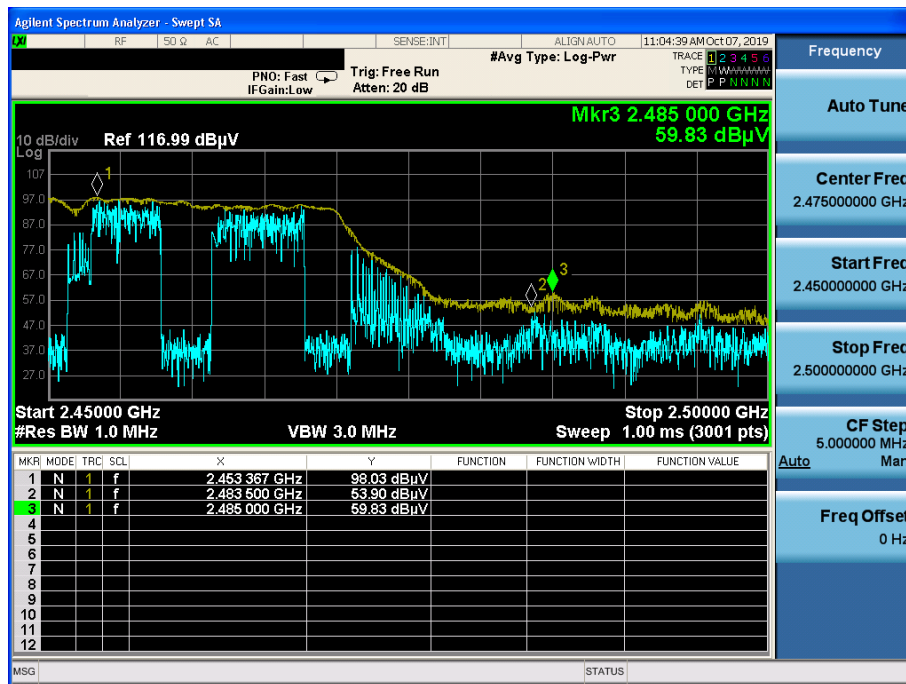
TM 4 & 2422 & X axis & Hor & ANT 2

Detector Mode : AV



TM 4 & 2452 & X axis & Hor & ANT 2

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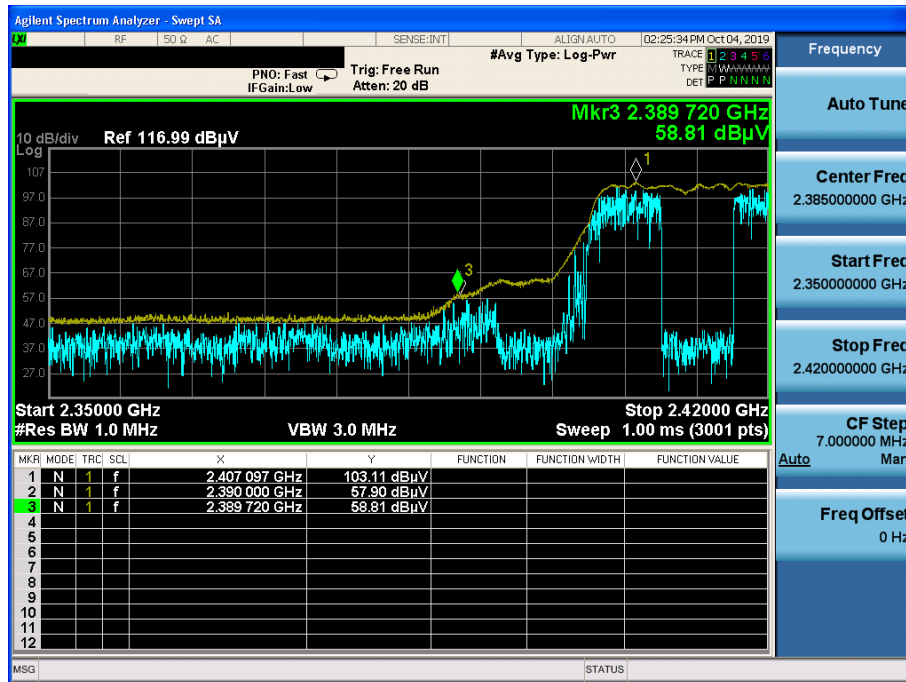
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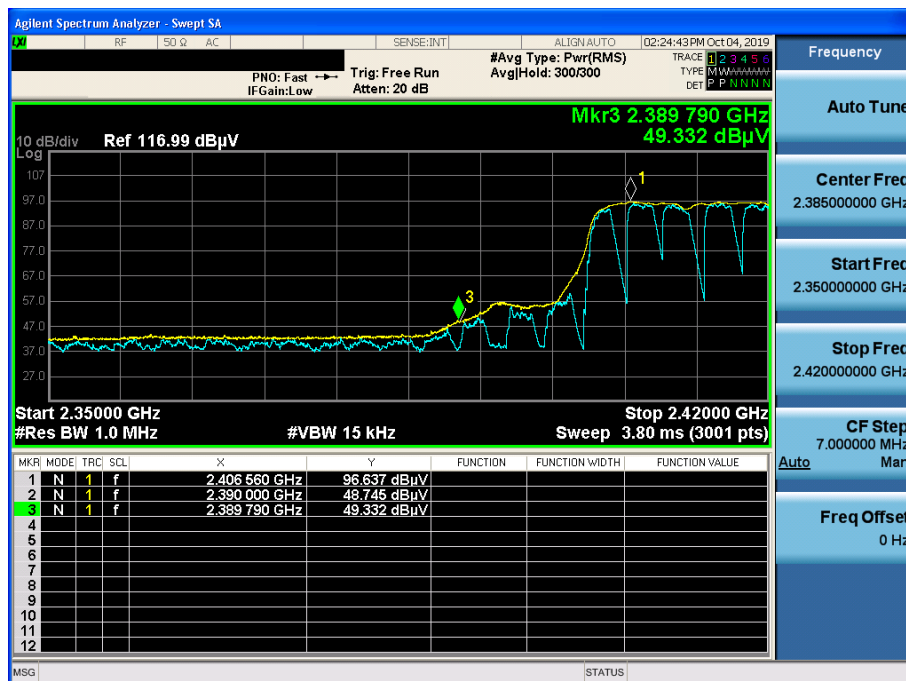
TM 5 & 2412 & X axis & Hor & MIMO

Detector Mode : PK



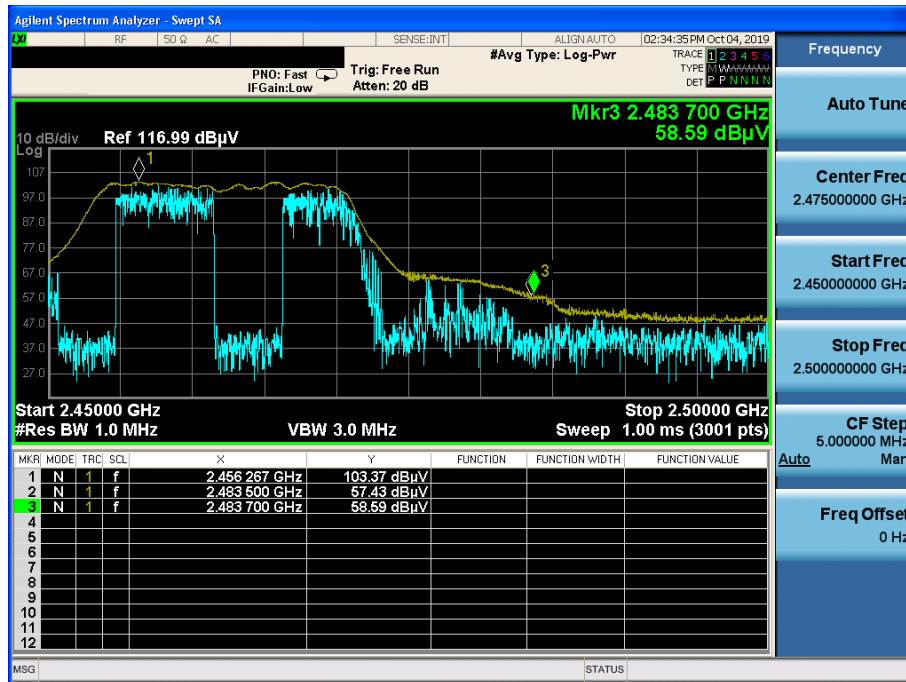
TM 5 & 2412 & X axis & Hor & MIMO

Detector Mode : AV



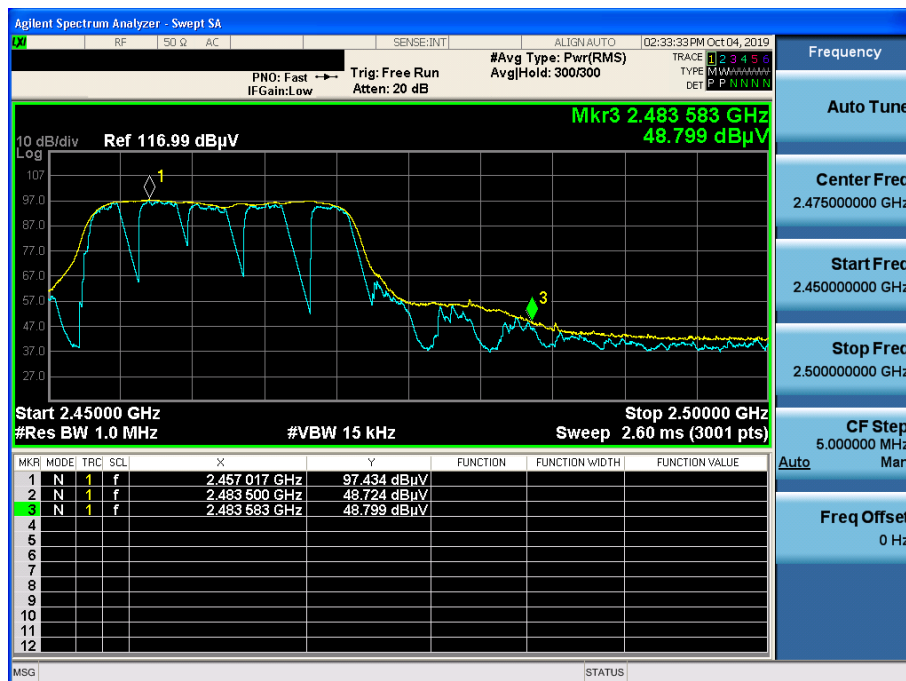
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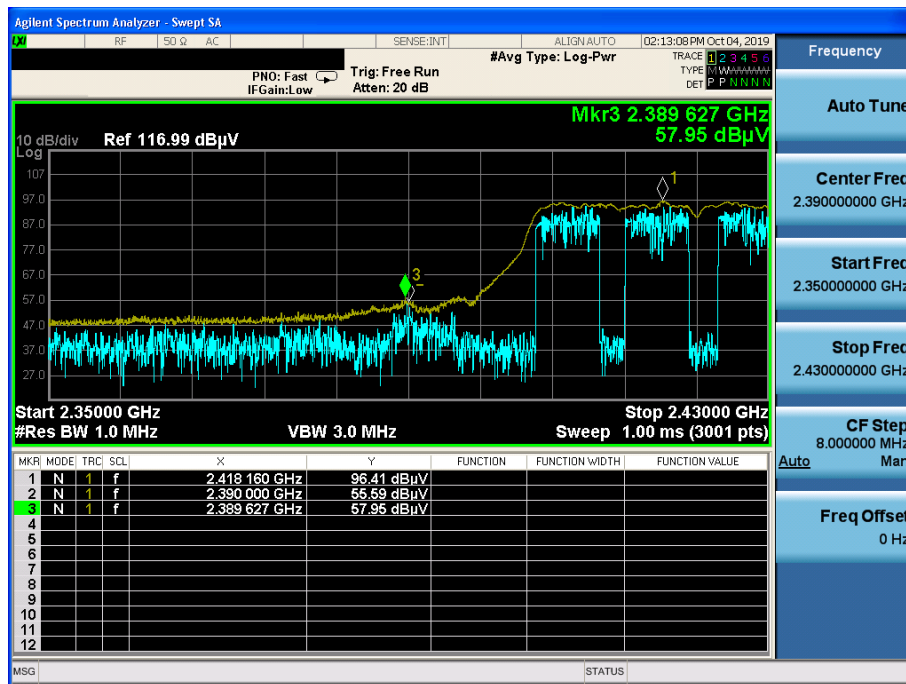
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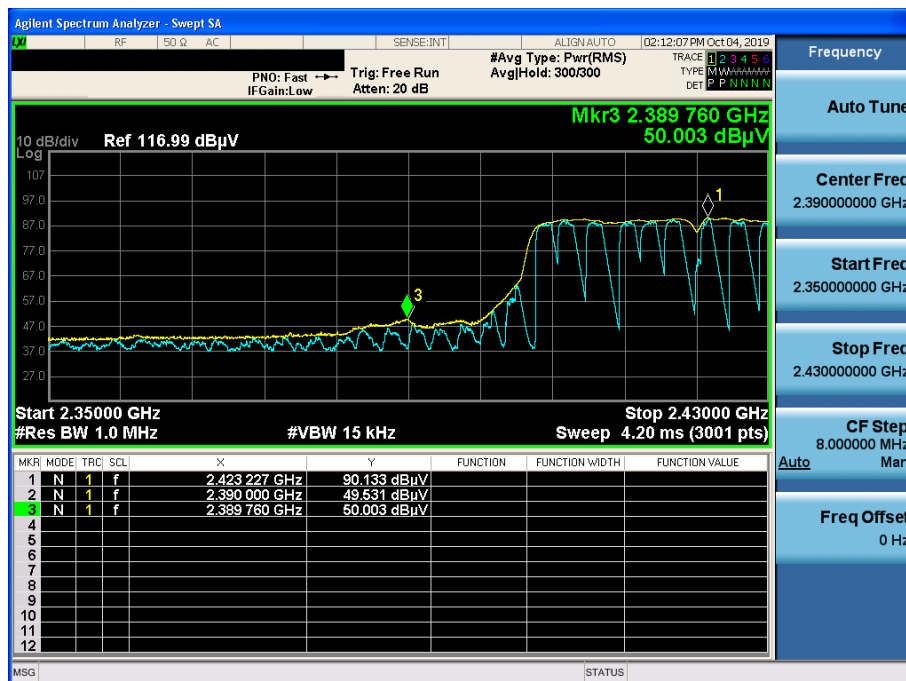
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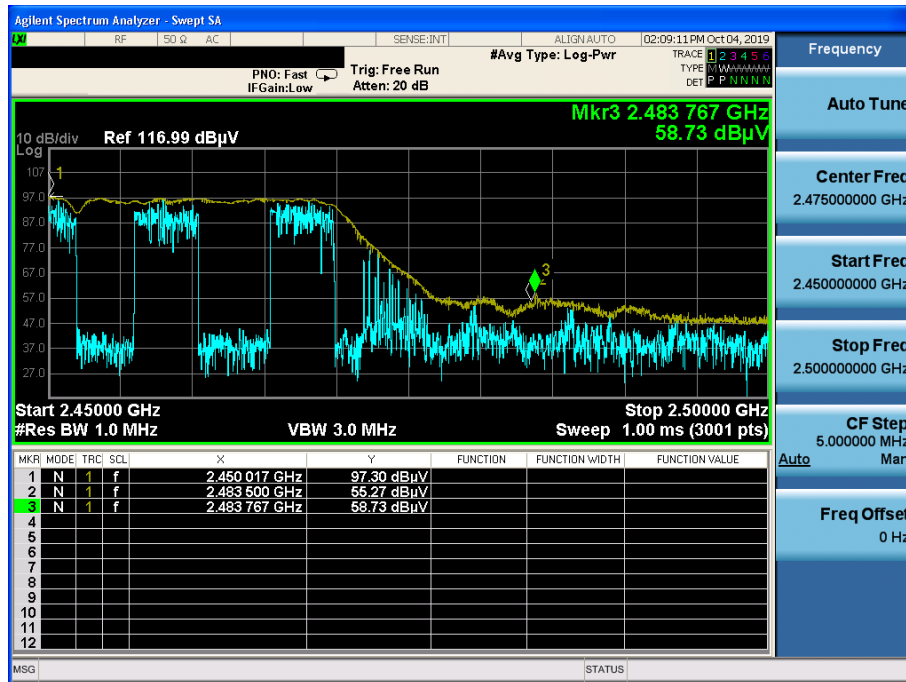
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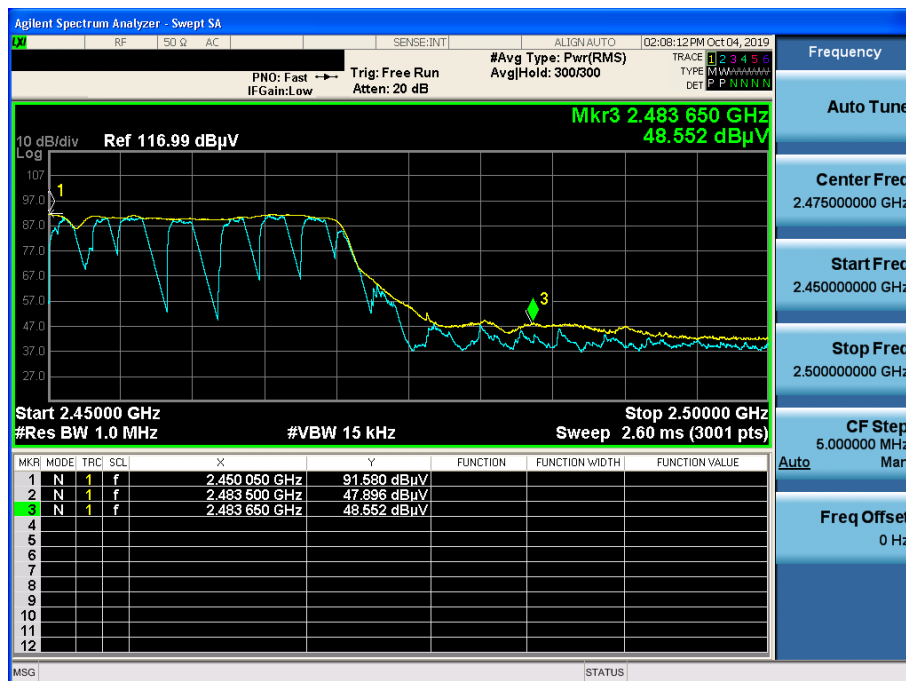
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Detector Mode : PK



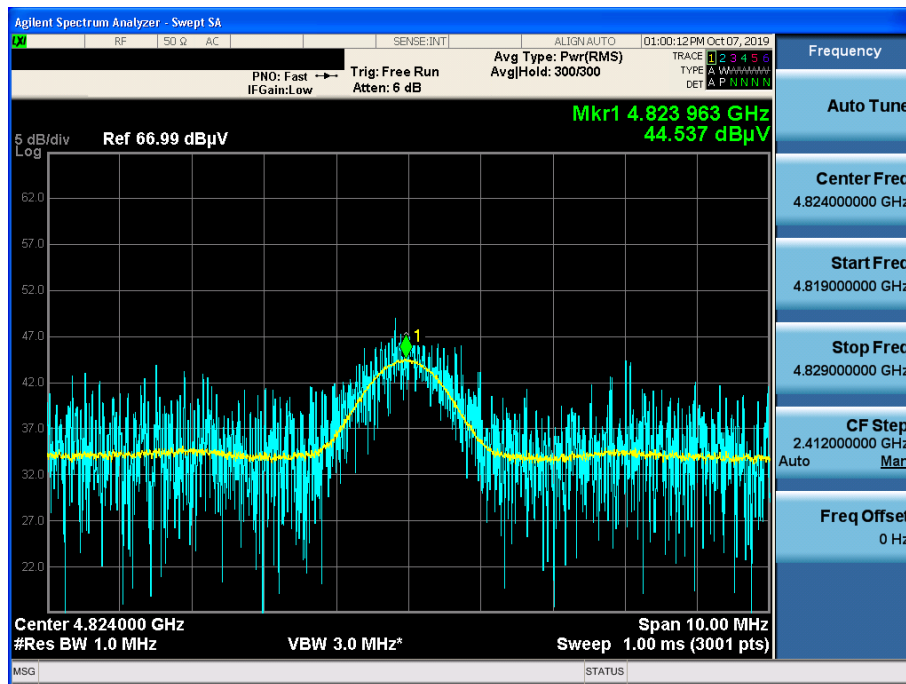
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Detector Mode : AV



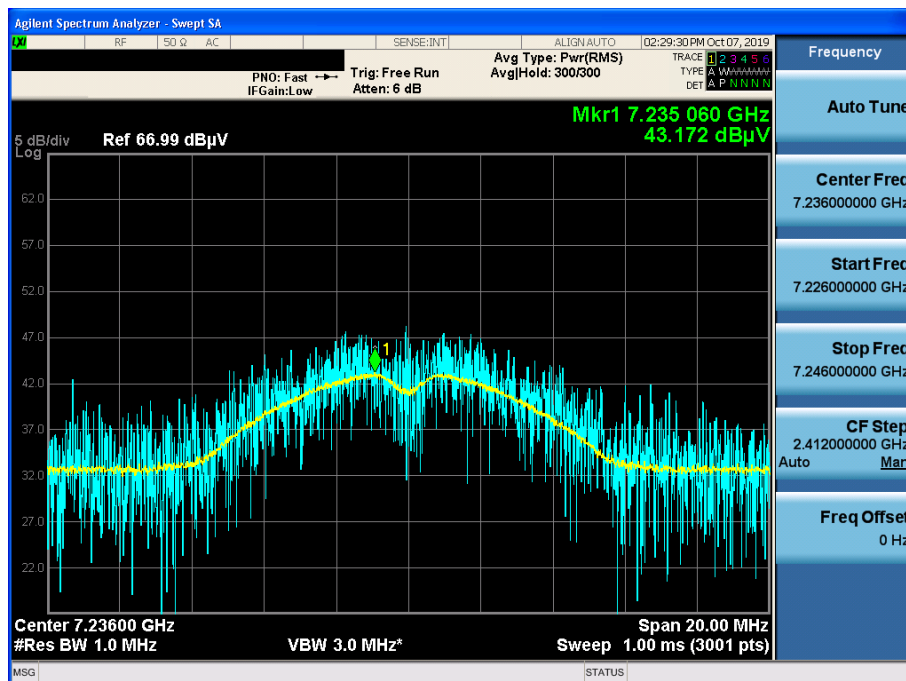
TM 1 & 2412 & X axis & Hor & ANT 1

Detector Mode : AV



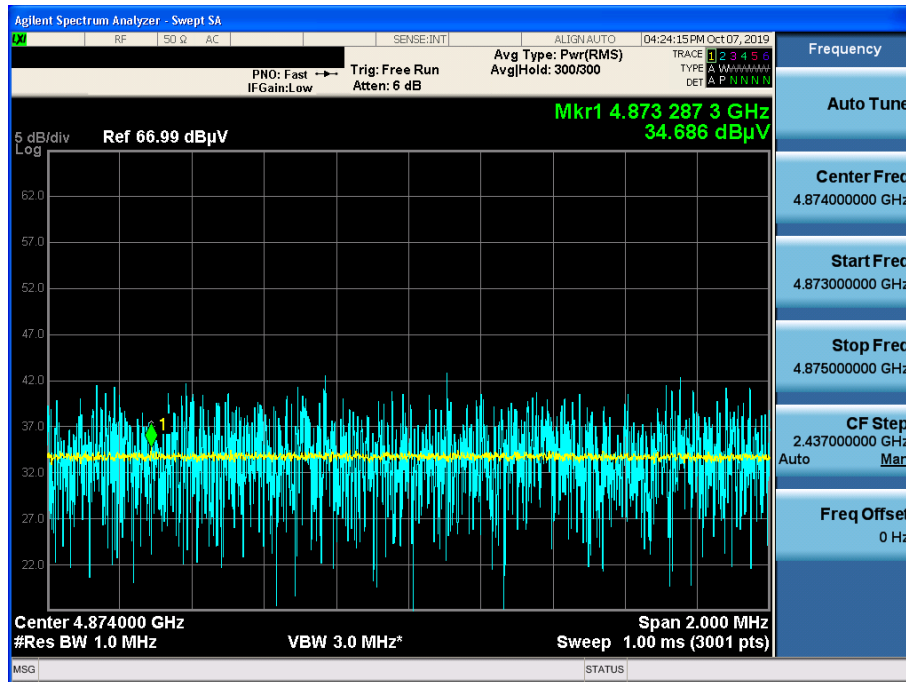
TM 1 & 2412 & X axis & Hor & ANT 2

Detector Mode : AV



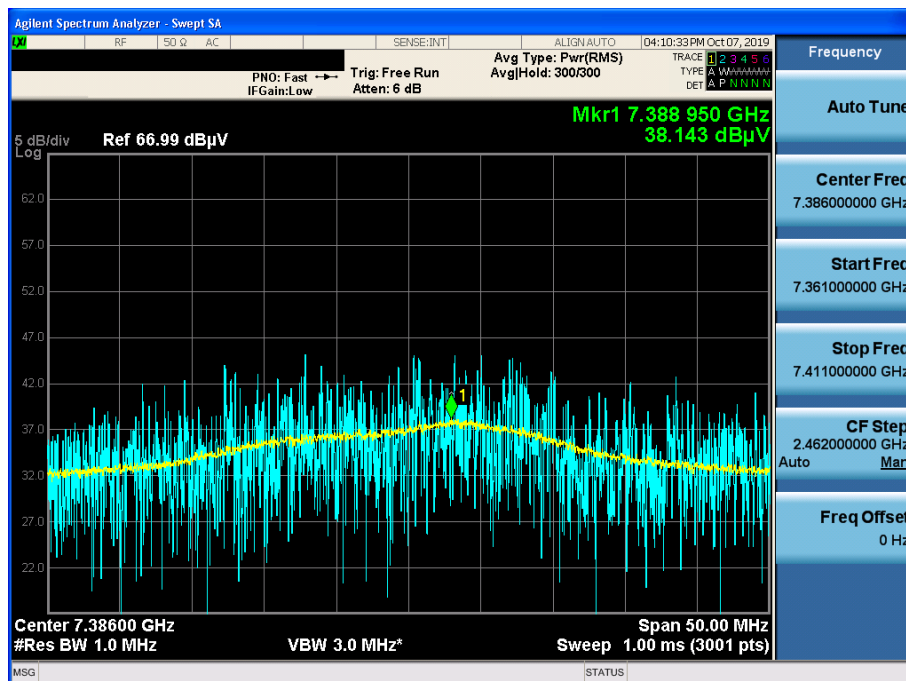
TM 2 & 2437 & X axis & Hor & ANT 1

Detector Mode : AV



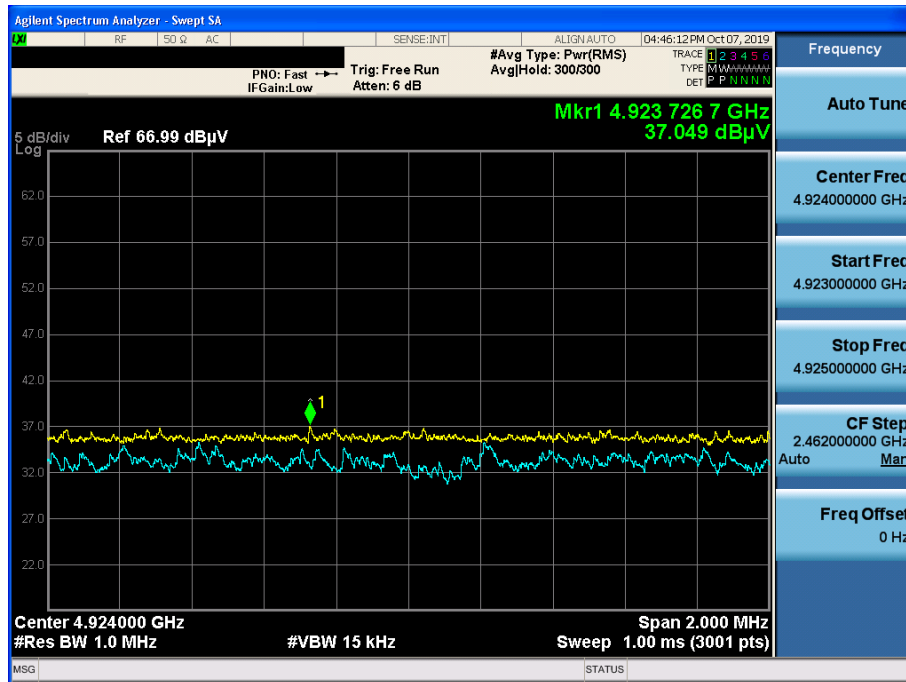
TM 2 & 2462 & X axis & Ver & ANT 2

Detector Mode : AV



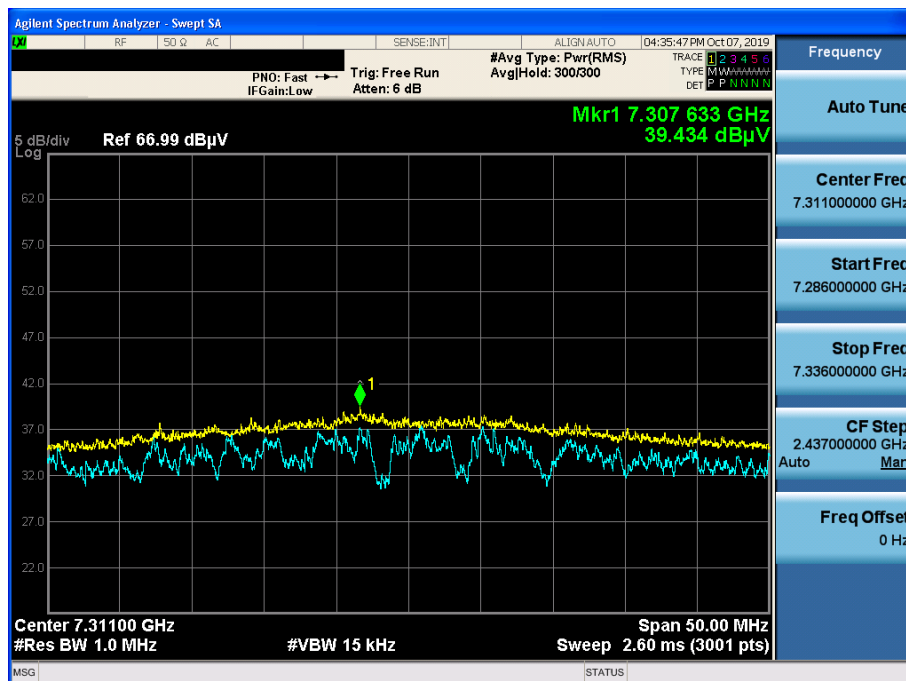
TM 3 & 2462 & X axis & Hor & ANT 1

Detector Mode : AV



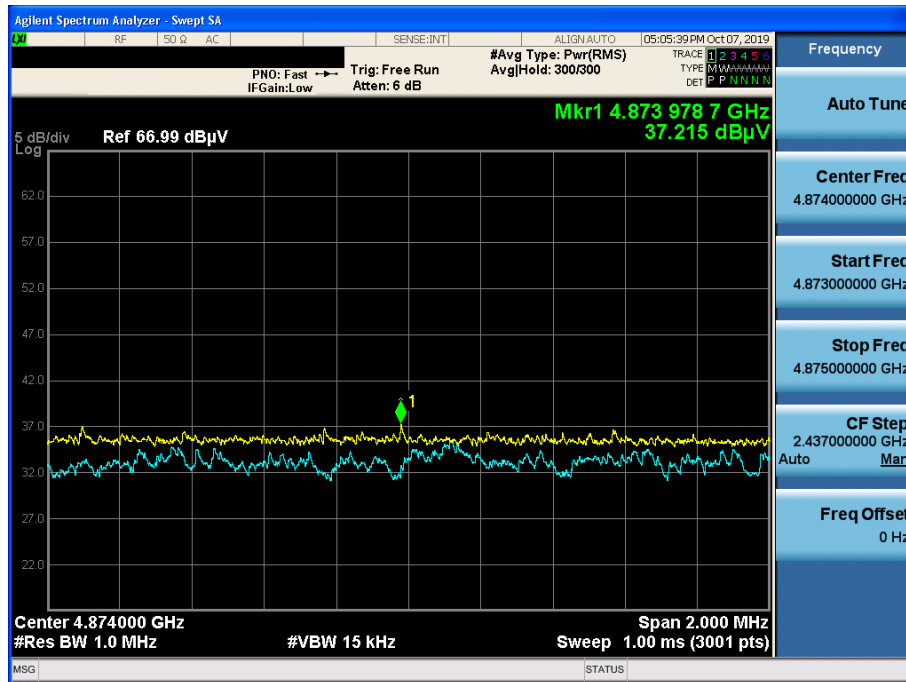
TM 3 & 2437 & X axis & Ver & ANT 2

Detector Mode : AV



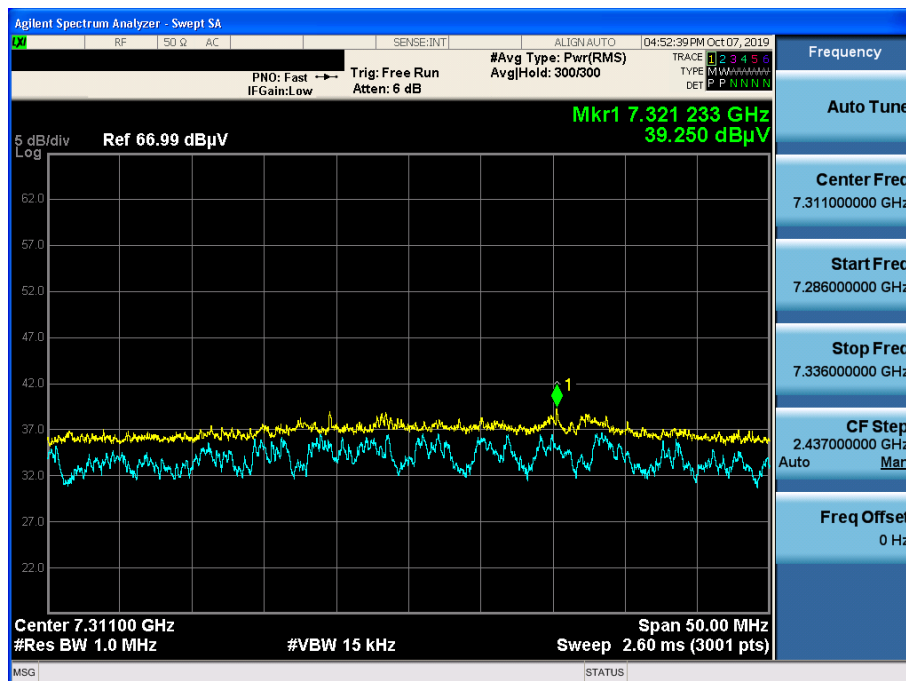
TM 4 & 2437 & X axis & Hor & ANT 1

Detector Mode : AV



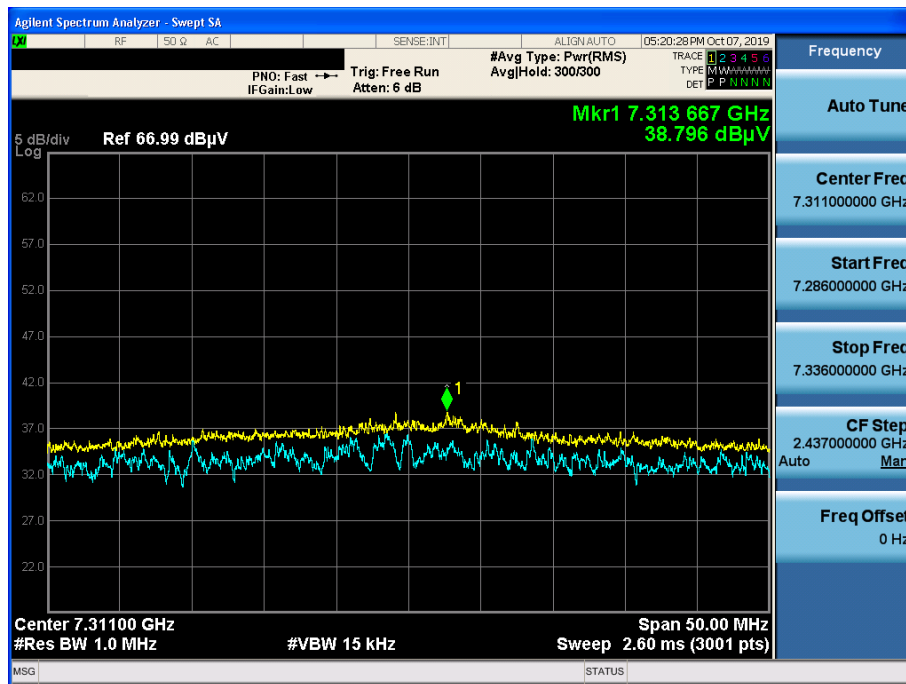
TM 4 & 2437 & X axis & Ver & ANT 2

Detector Mode : AV



TM 5 & 2437 & X axis & Hor & MIMO

Detector Mode : AV



TM 6 & 2437 & X axis & Hor & MIMO

Detector Mode : AV

