AC Power-Line Conducted Emissions (Graph)

Test Mode: U-NII 2C & TM 1 & 5 500 MHz

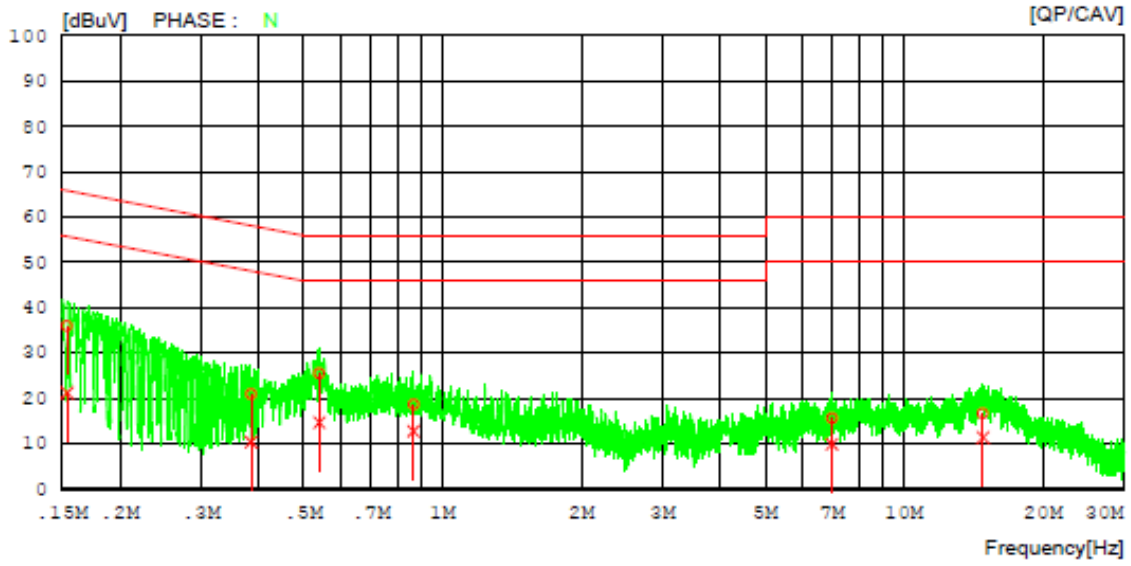
Results of Conducted Emission

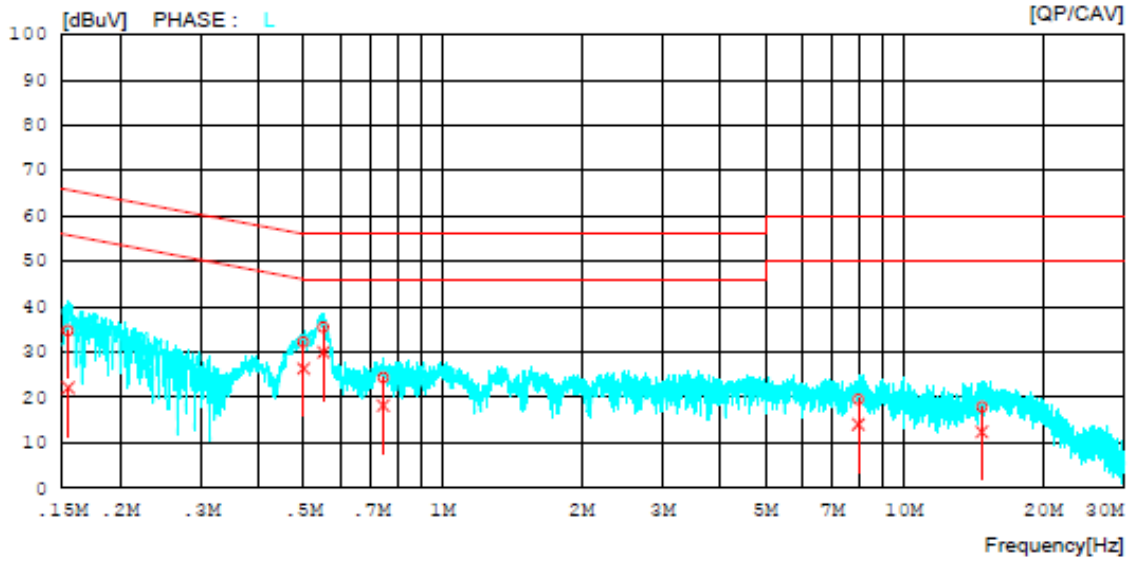
DTNC

Date 2023-06-16

Order No.		Referrence No.	
Model No.	VF550	Power Supply	
Serial No.		Temp/Humi.	21 'C / 41 %
Test Condition	WLAN 5.5G	Operator	S.H.Han
Memo	802.11a_5500		

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





AC Power-Line Conducted Emissions (Data List)

Test Mode: U-NII 2C & TM 1 & 5 500 MHz

Results of Conducted Emission

DTNC Date 2023-06-16

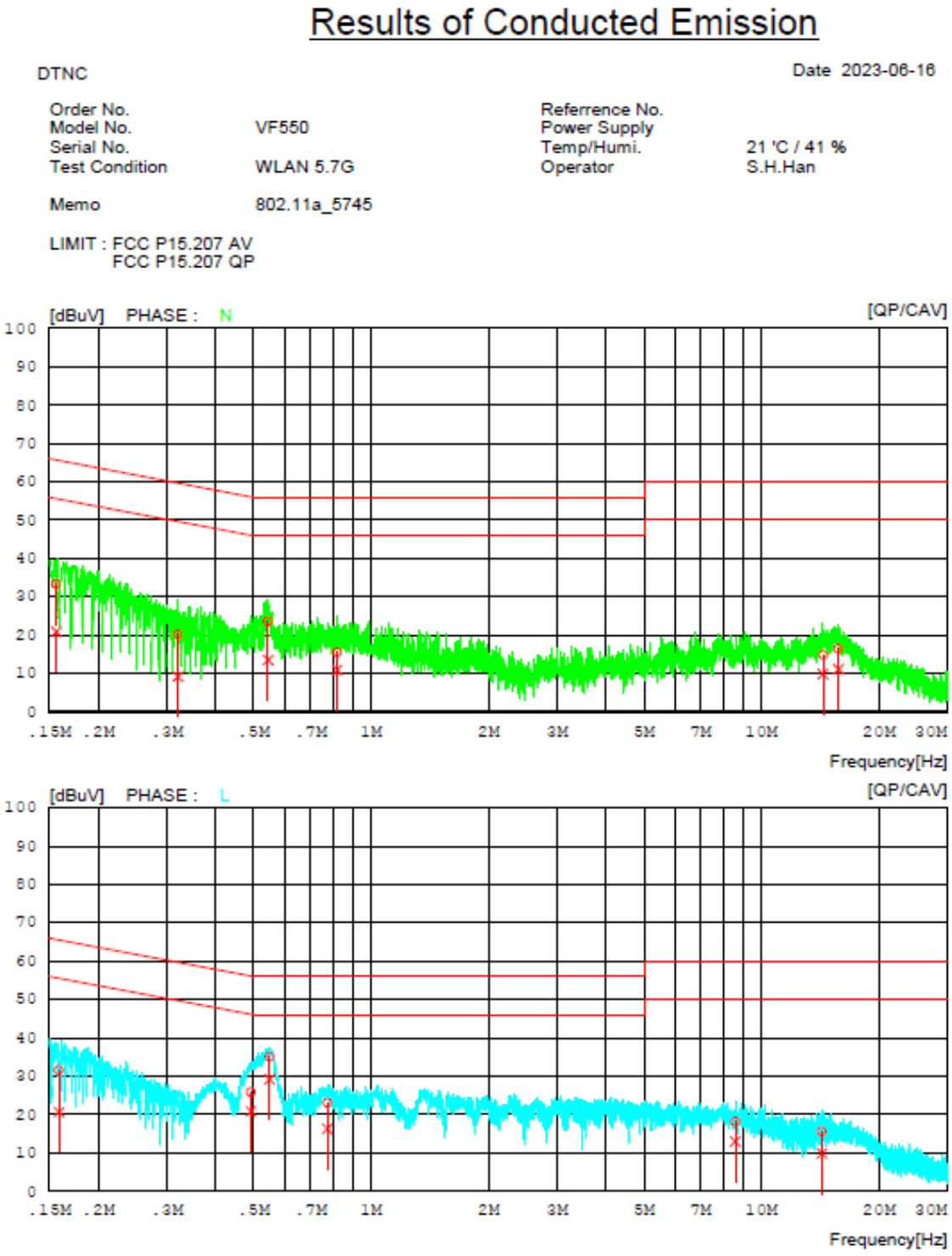
Order No.		Referrence No.	
Model No.	VF550	Power Supply	
Serial No.		Temp/Humi.	21 'C / 41 %
Test Condition	WLAN 5.5G	Operator	S.H.Han
Memo	802.11a_5500		

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

NO	FREQ	READING QP	READING CAV	C.FACTOR	RESULT QP	RESULT CAV	LIMIT QP	LIMIT CAV	MARGIN QP	MARGIN CAV	PHASE
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.15359	26.01	11.22	10.01	36.02	21.23	65.80	55.80	29.78	34.57	N
2	0.38444	10.93	0.43	9.99	20.92	10.42	58.18	48.18	37.26	37.76	N
3	0.54076	15.55	4.65	10.00	25.55	14.65	56.00	46.00	30.45	31.35	N
4	0.86513	8.66	2.85	10.00	18.66	12.85	56.00	46.00	37.34	33.15	N
5	6.98620	5.47	-0.29	10.24	15.71	9.95	60.00	50.00	44.29	40.05	N
6	14.82620	6.14	0.84	10.57	16.71	11.41	60.00	50.00	43.29	38.59	N
7	0.15441	24.76	12.18	9.91	34.67	22.09	65.76	55.76	31.09	33.67	L
8	0.49950	22.24	16.45	9.90	32.14	26.35	56.01	46.01	23.87	19.66	L
9	0.55169	25.50	19.99	9.90	35.40	29.89	56.00	46.00	20.60	16.11	L
10	0.74410	14.47	8.29	9.89	24.36	18.18	56.00	46.00	31.64	27.82	L
11	7.96180	9.33	3.81	10.16	19.49	13.97	60.00	50.00	40.51	36.03	L
12	14.76240	7.46	2.04	10.38	17.84	12.42	60.00	50.00	42.16	37.58	L

AC Power-Line Conducted Emissions (Graph)

Test Mode: U-NII 3 & TM 1 & 5 745 MHz



AC Power-Line Conducted Emissions (Data List)

Test Mode: U-NII 3 & TM 1 & 5 745 MHz

Results of Conducted Emission

DTNC Date 2023-06-16

Order No.		Referrence No.	
Model No.	VF550	Power Supply	
Serial No.		Temp/Humi.	21 'C / 41 %
Test Condition	WLAN 5.7G	Operator	S.H.Han
Memo	802.11a_5745		

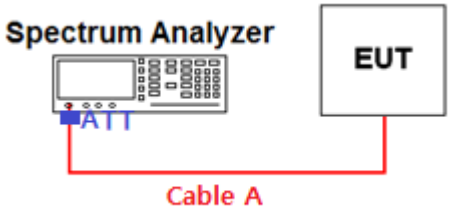
LIMIT : FCC P15.207 AV
FCC P15.207 QP

NO	FREQ	READING QP	READING CAV	C.FACTOR	RESULT QP	RESULT CAV	LIMIT QP	LIMIT CAV	MARGIN QP	MARGIN CAV	PHASE
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.15624	23.36	10.94	10.01	33.37	20.95	65.66	55.66	32.29	34.71	N
2	0.32017	10.19	-0.79	9.99	20.18	9.20	59.70	49.70	39.52	40.50	N
3	0.54454	13.56	3.51	10.00	23.56	13.51	56.00	46.00	32.44	32.49	N
4	0.81812	5.56	0.88	10.00	15.56	10.88	56.00	46.00	40.44	35.12	N
5	14.39000	4.35	-0.67	10.55	14.90	9.88	60.00	50.00	45.10	40.12	N
6	15.73980	5.90	0.60	10.58	16.48	11.18	60.00	50.00	43.52	38.82	N
7	0.15850	21.58	10.75	9.90	31.48	20.65	65.54	55.54	34.06	34.89	L
8	0.49220	16.01	10.94	9.90	25.91	20.84	56.13	46.13	30.22	25.29	L
9	0.54965	25.17	19.32	9.90	35.07	29.22	56.00	46.00	20.93	16.78	L
10	0.77272	13.20	6.41	9.89	23.09	16.30	56.00	46.00	32.91	29.70	L
11	8.57880	8.01	2.83	10.18	18.19	13.01	60.00	50.00	41.81	36.99	L
12	14.29560	5.19	-0.49	10.36	15.55	9.87	60.00	50.00	44.45	40.13	L

APPENDIX I

Conducted Test set up Diagram

▪ Conducted Measurement



APPENDIX II

Duty Cycle Information

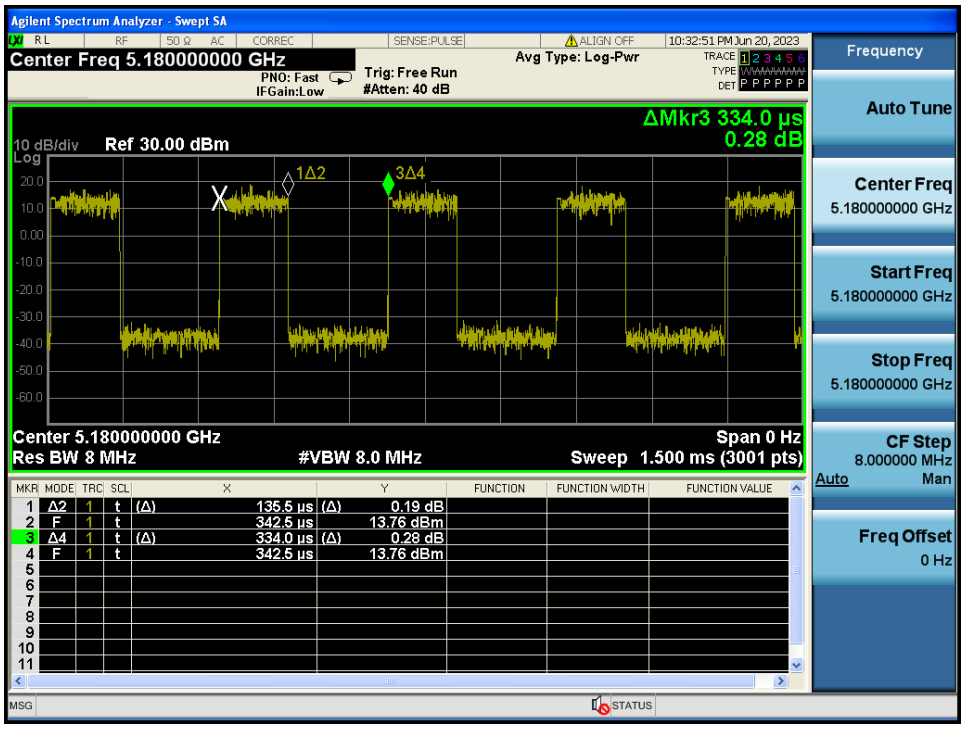
▣ Test Procedure

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

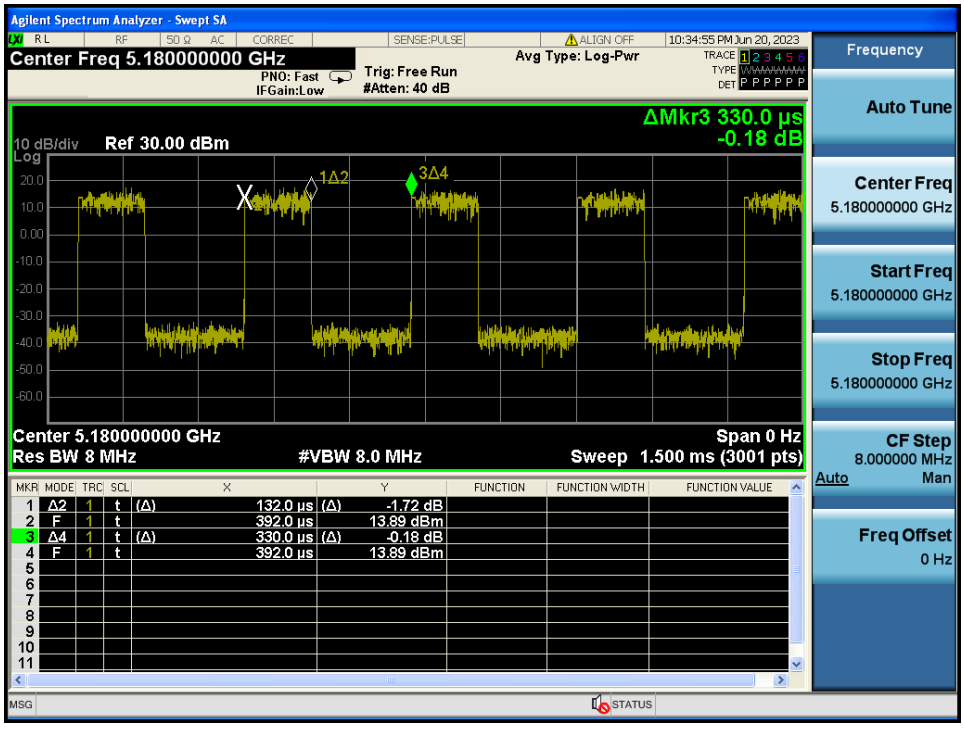
1. Set the center frequency of the spectrum analyzer to the center frequency of the transmission.
2. Set RBW ≥ EBW if possible; otherwise, set RBW to the largest available value.
3. Set VBW ≥ RBW. Set detector = peak.
4. Note : The zero-span measurement method shall not be used unless both **RBW and 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* ≤ 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)

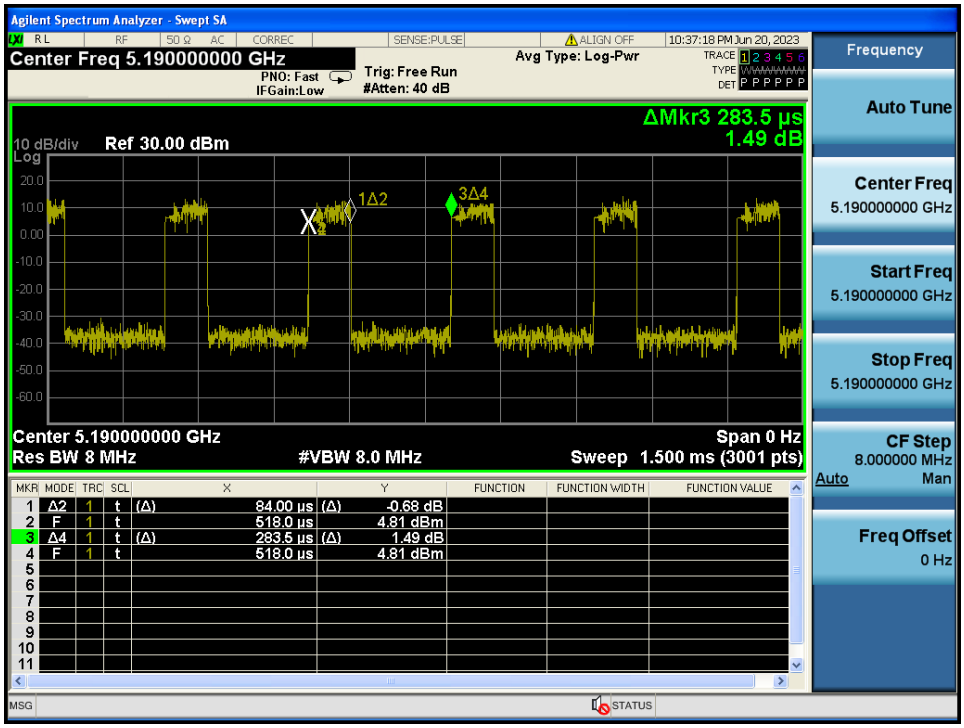
Duty Cycle Test Mode: TM1 & Ch.36



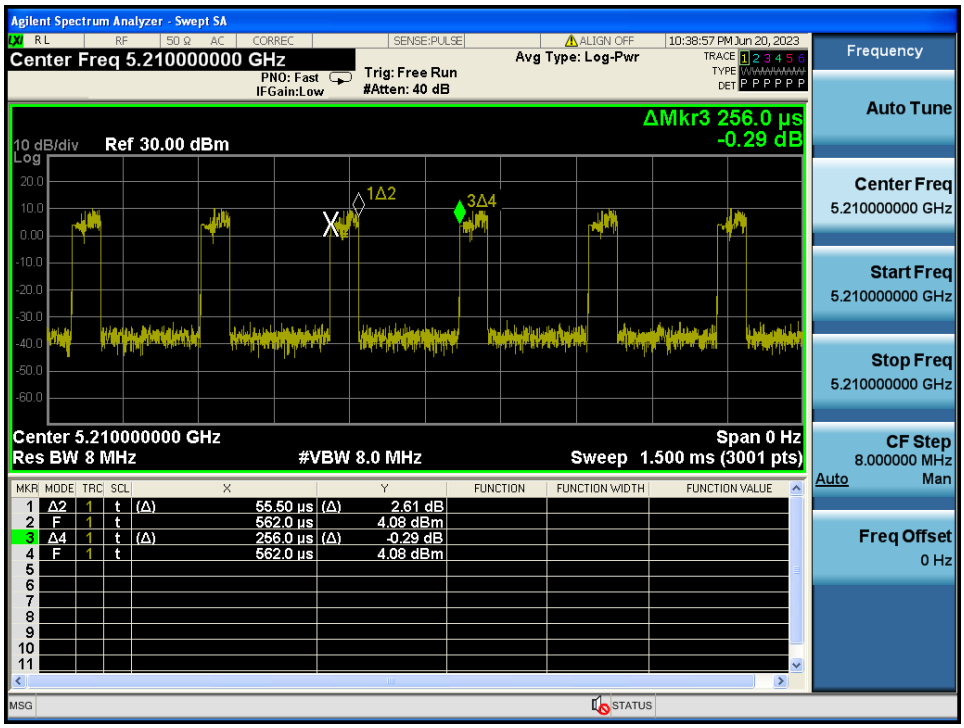
Duty Cycle Test Mode: TM 2 & Ch.36



Duty Cycle Test Mode: TM 3 & Ch.38



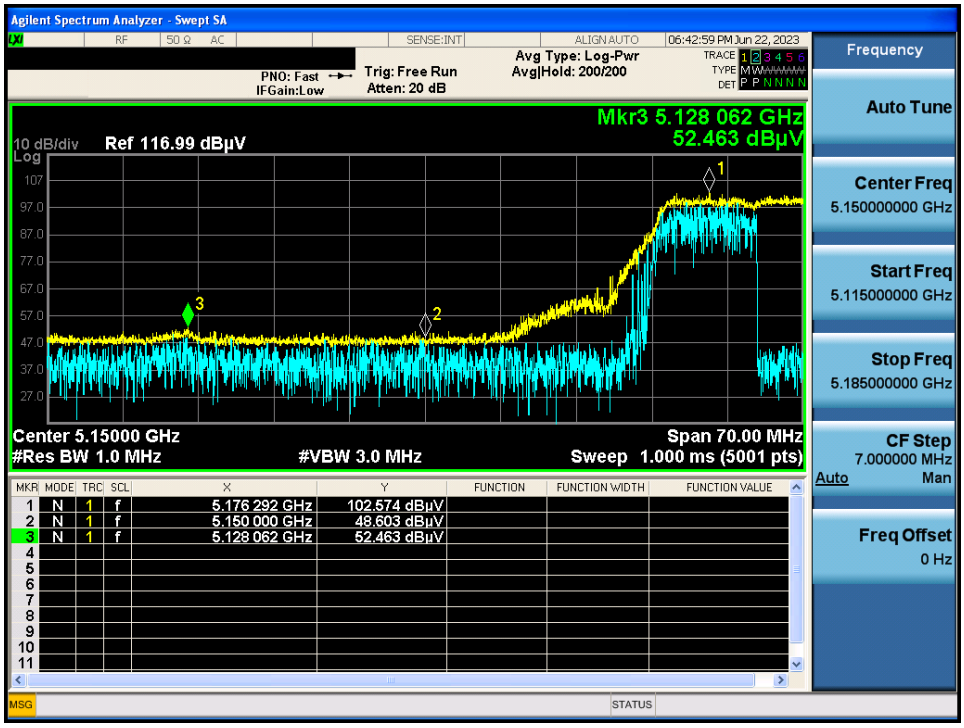
Duty Cycle Test Mode: TM 4 & Ch.42



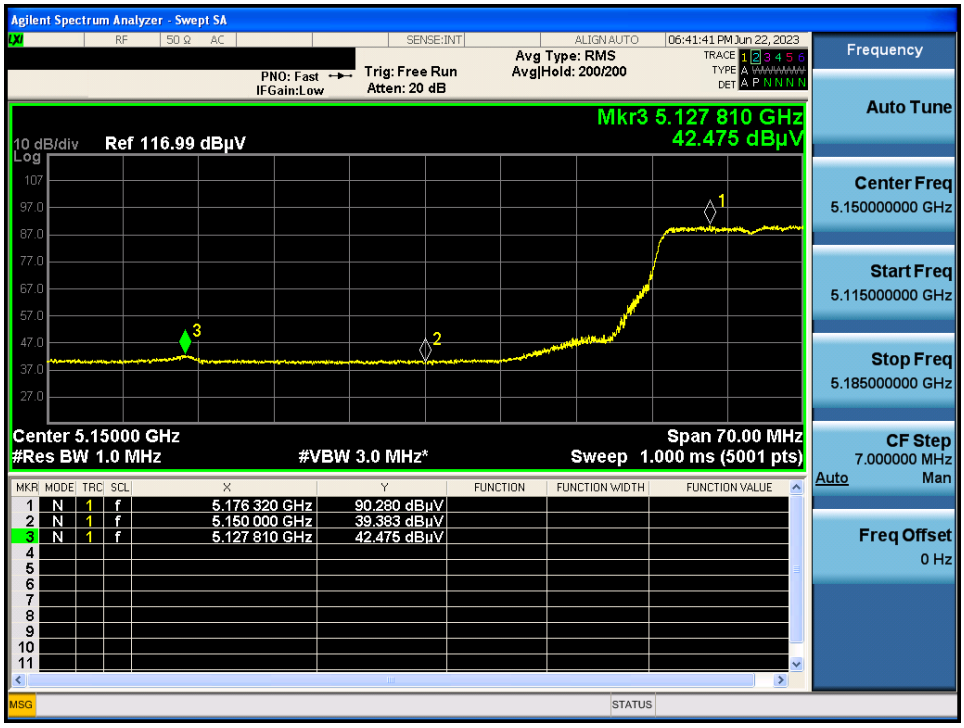
APPENDIX III

Unwanted Emissions (Radiated) Test Plot:

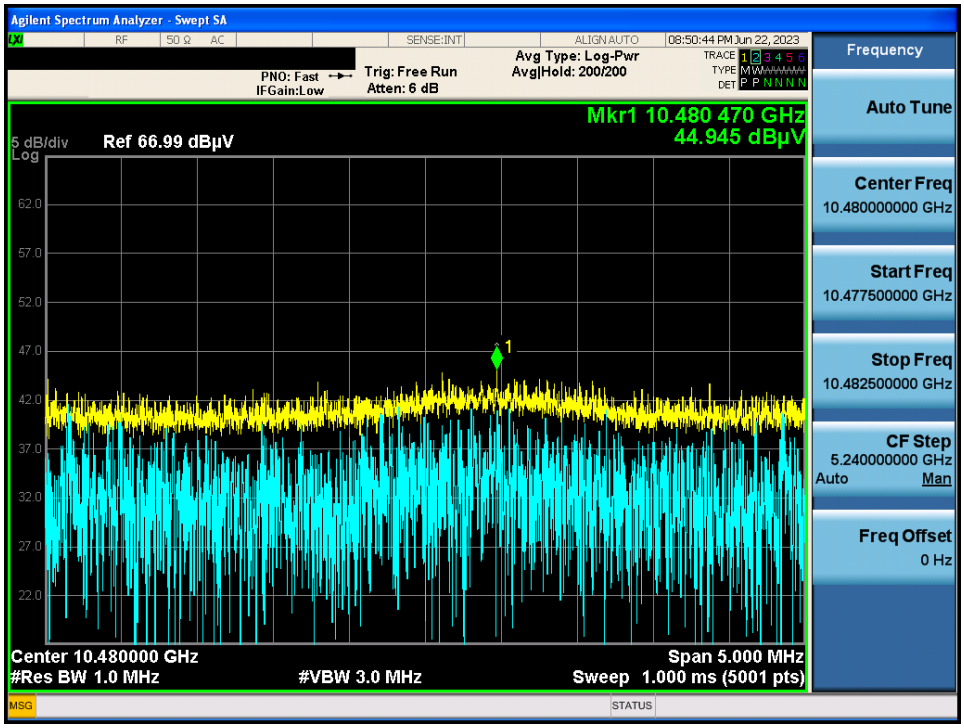
TM 1 & U-NII 1 & 5 180 & X axis & Hor **Detector Mode : PK**



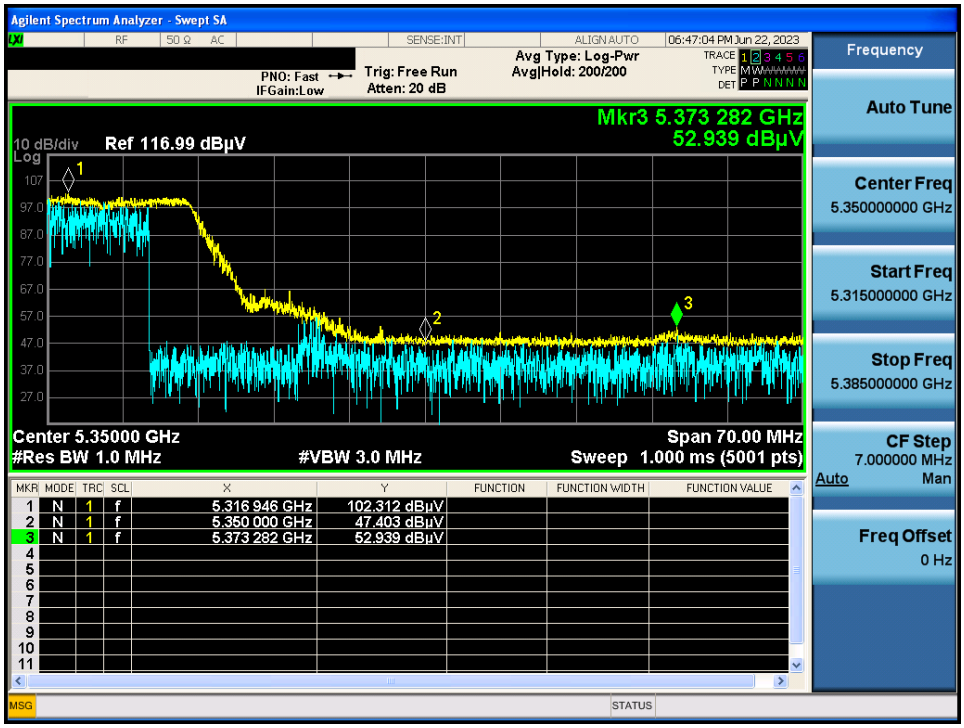
TM 1 & U-NII 1 & 5 180 & X axis & Hor **Detector Mode : AV**



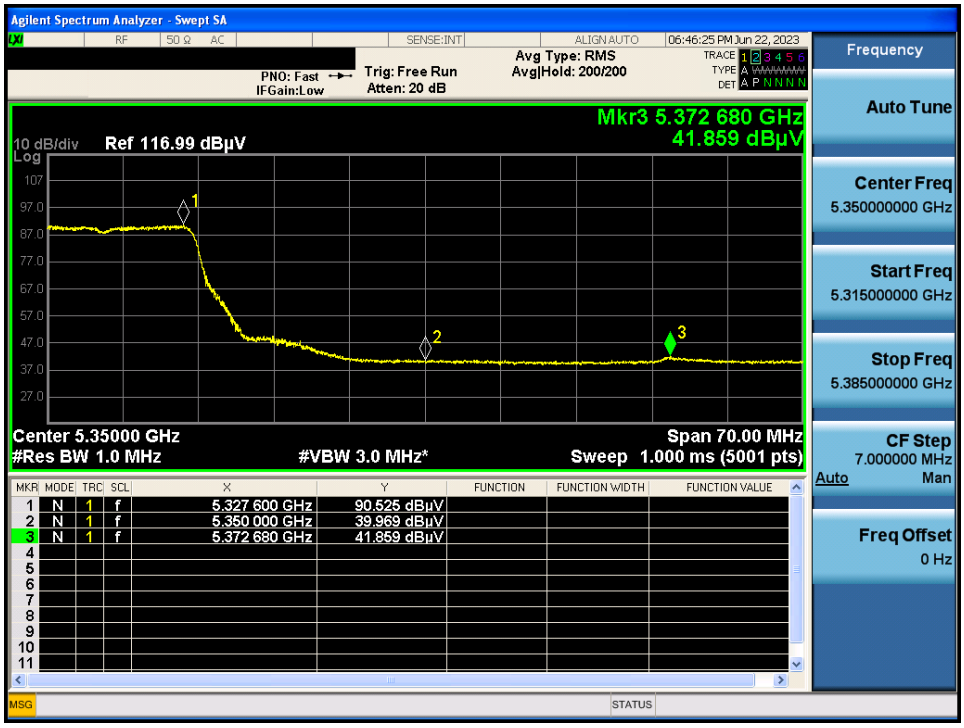
TM 1 & U-NII 1 & 5 240 & X axis & Ver **Detector Mode : PK**



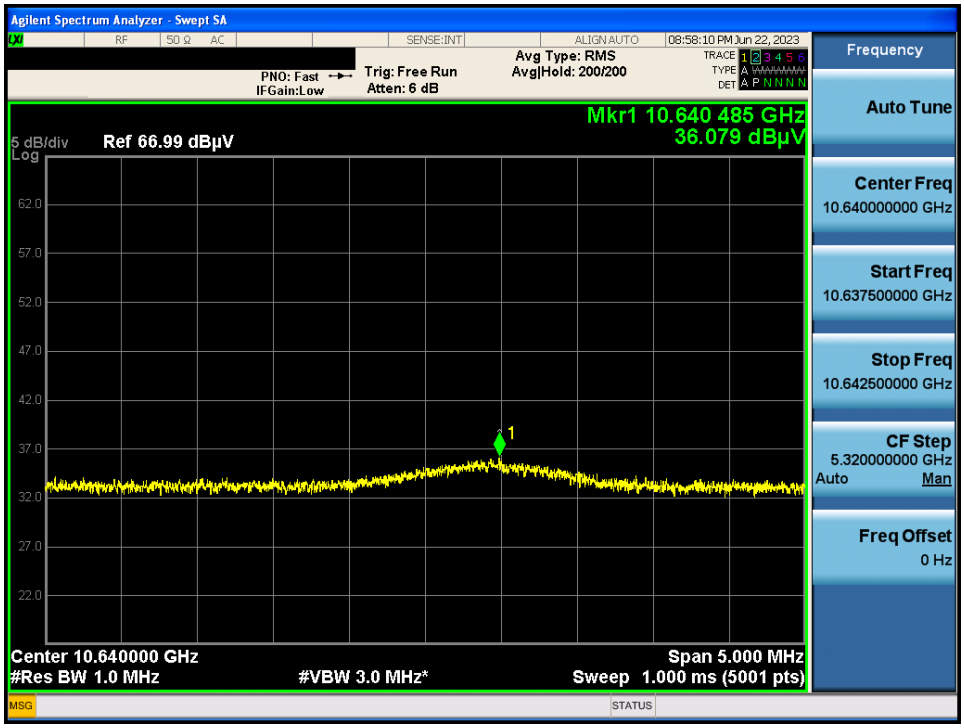
TM 1 & U-NII 2A & 5 320 & X axis & Hor **Detector Mode : PK**



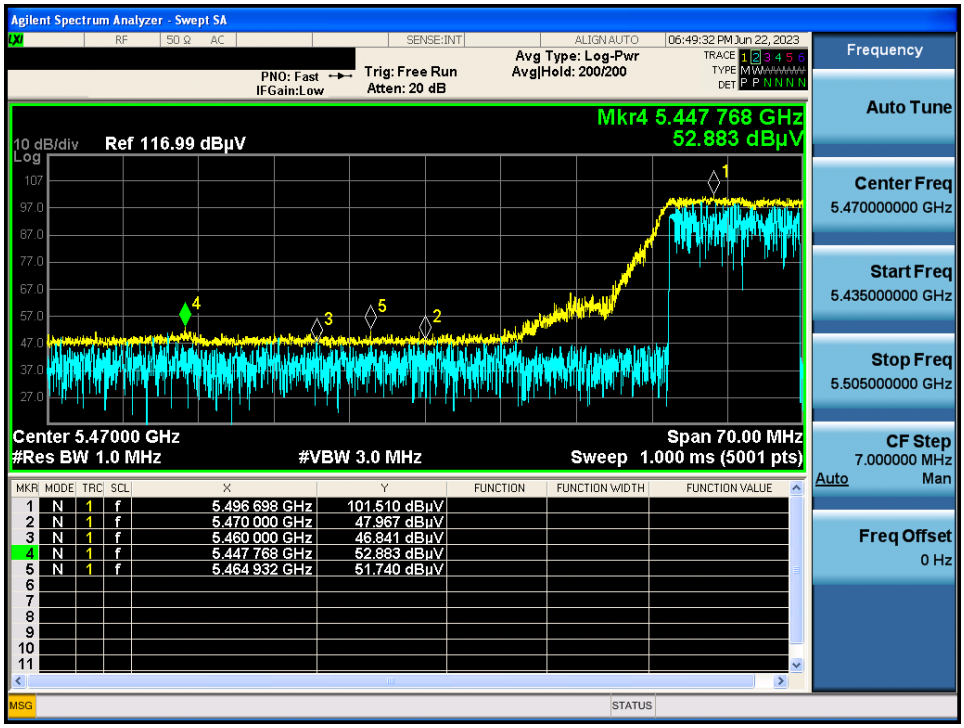
TM 1 & U-NII 2A & 5 320 & X axis & Hor **Detector Mode : AV**



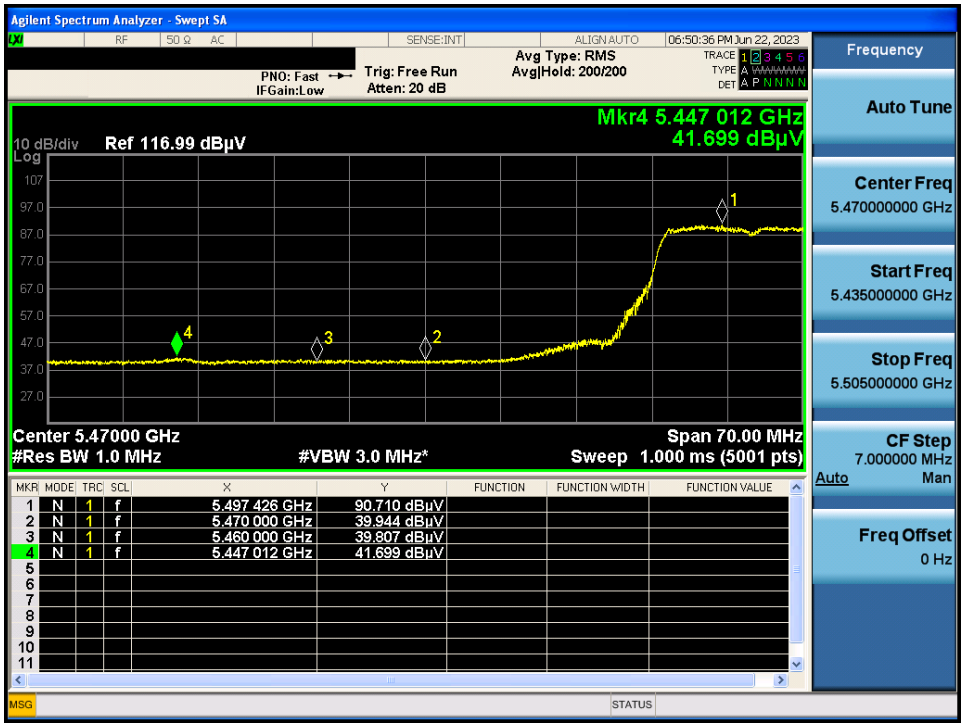
TM 1 & U-NII 2A & 5 320 & X axis & Ver **Detector Mode : AV**



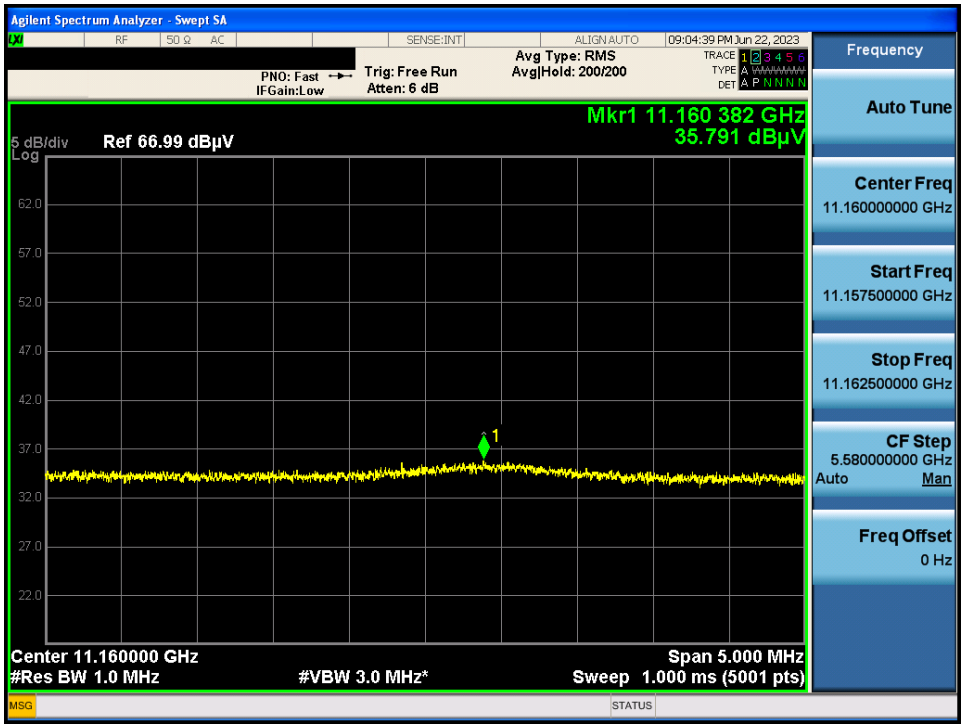
TM 1 & U-NII 2C & 5 500 & X axis & Hor **Detector Mode : PK**



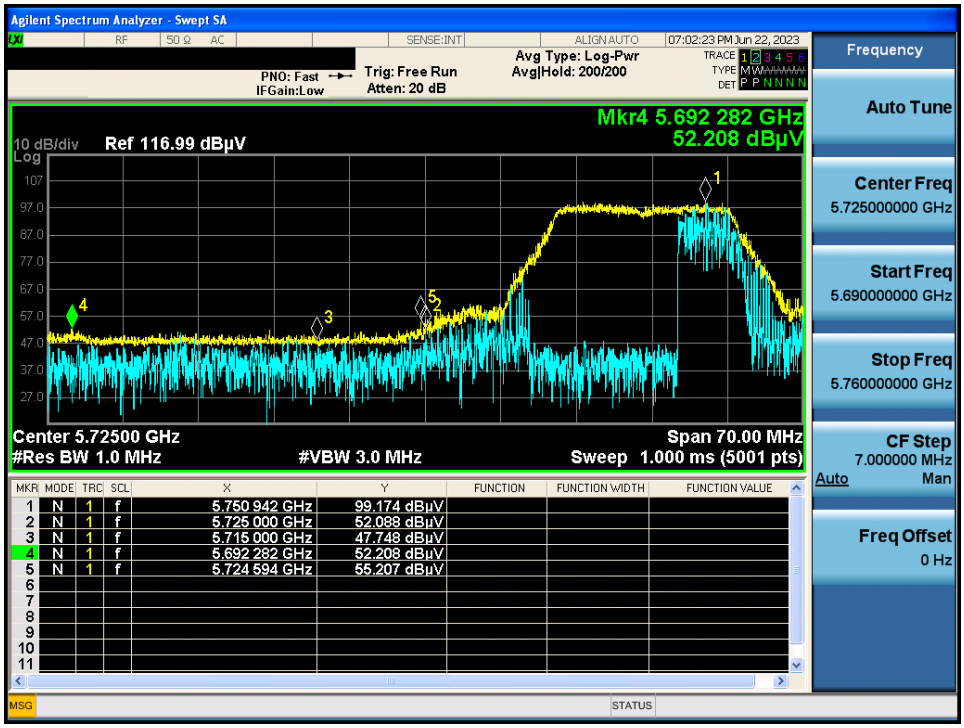
TM 1 & U-NII 2C & 5 500 & X axis & Hor **Detector Mode : AV**



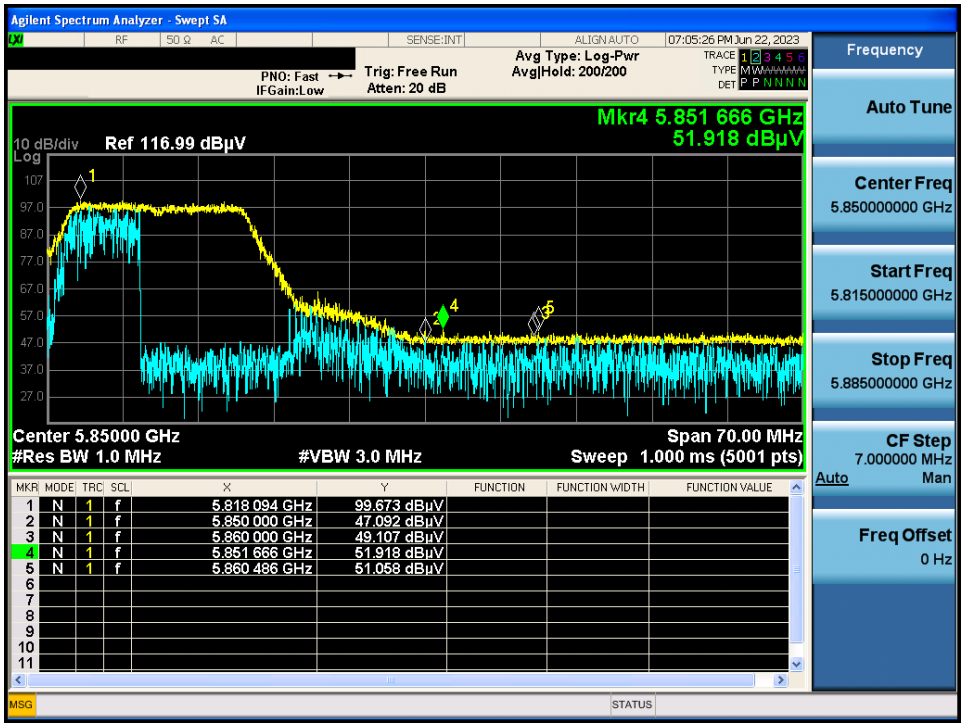
TM 1 & U-NII 2C & 5 580 & X axis & Ver **Detector Mode : AV**



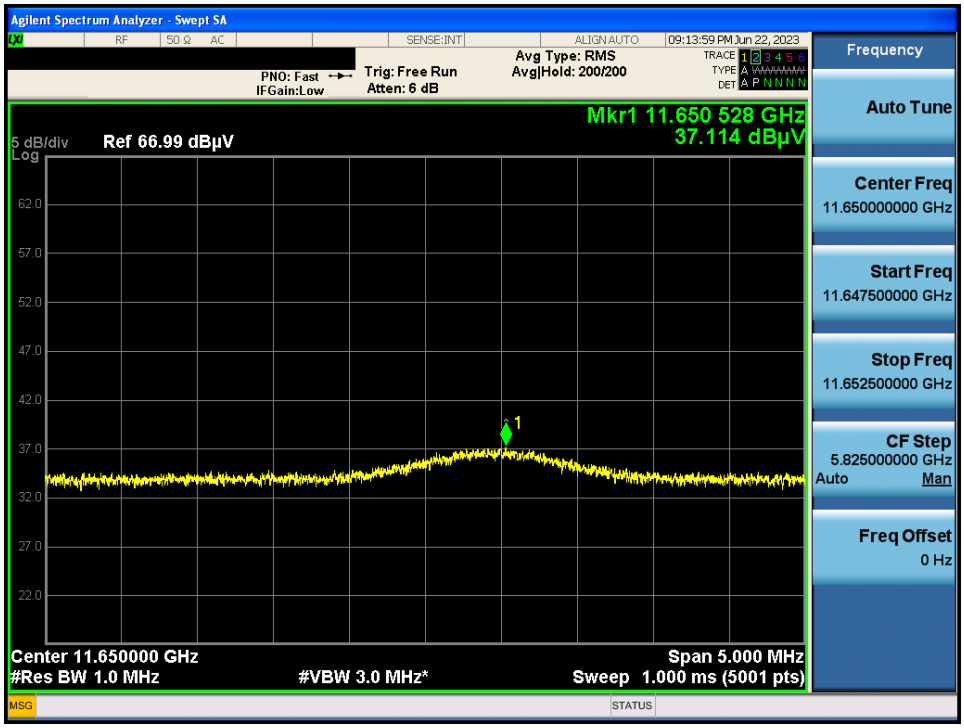
TM 1 & U-NII 3 & 5 745 & X axis & Hor **Detector Mode : PK**



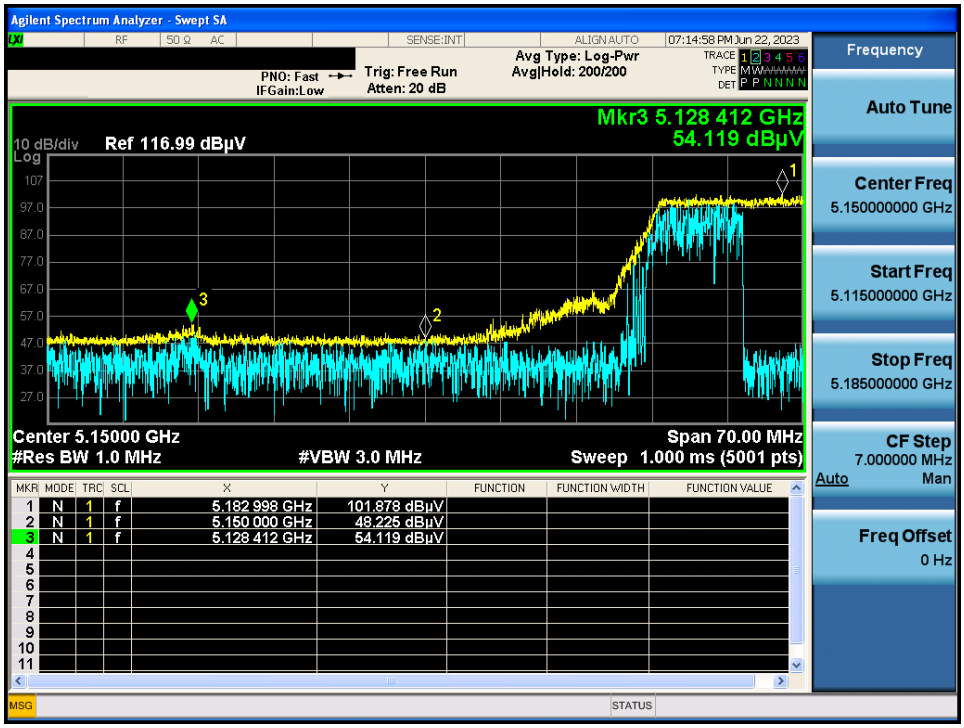
TM 1 & U-NII 3 & 5 825 & X axis & Hor **Detector Mode : PK**



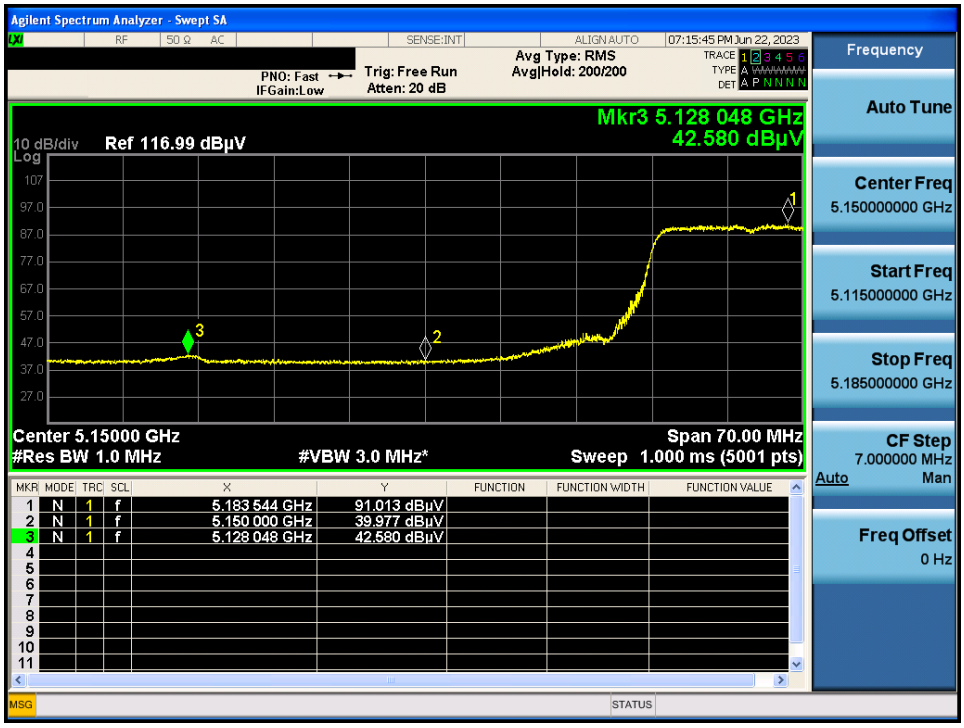
TM 1 & U-NII 3 & 5 825 & X axis & Ver **Detector Mode : AV**



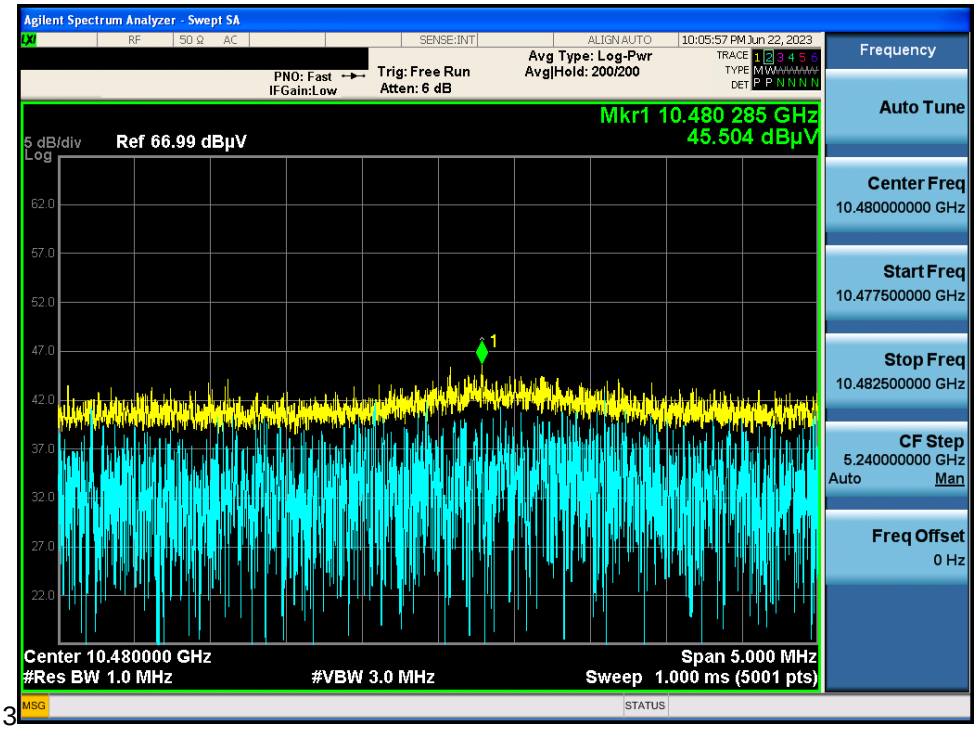
TM 2 & U-NII 1 & 5 180 & X axis & Hor **Detector Mode : PK**



TM 2 & U-NII 1 & 5 180 & X axis & Hor **Detector Mode : AV**

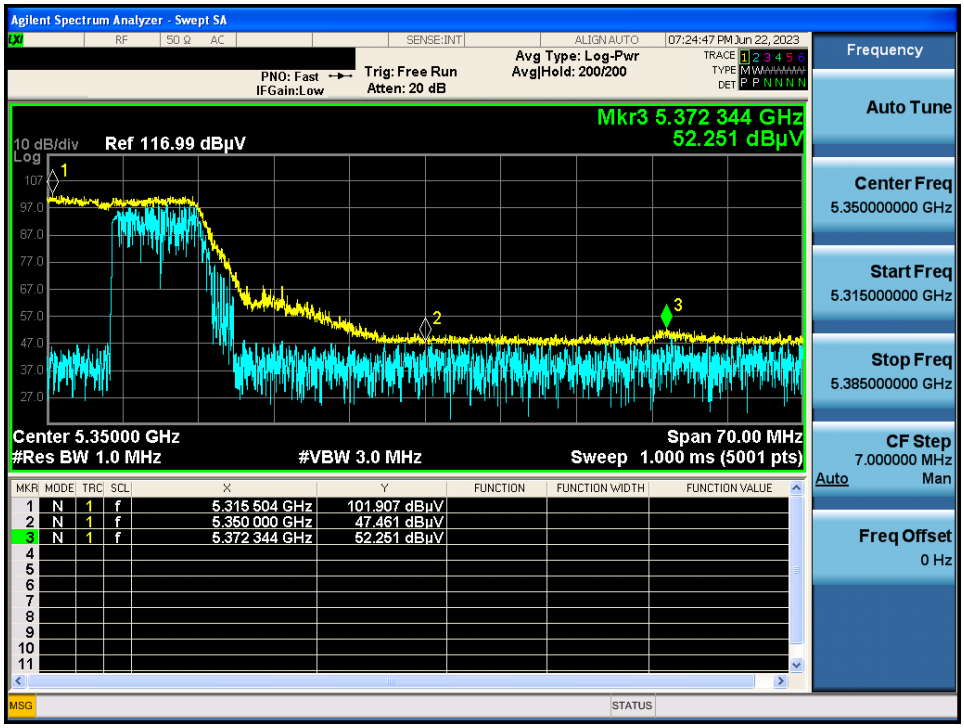


TM 2 & U-NII 1 & 5 240 & X axis & Ver **Detector Mode : PK**

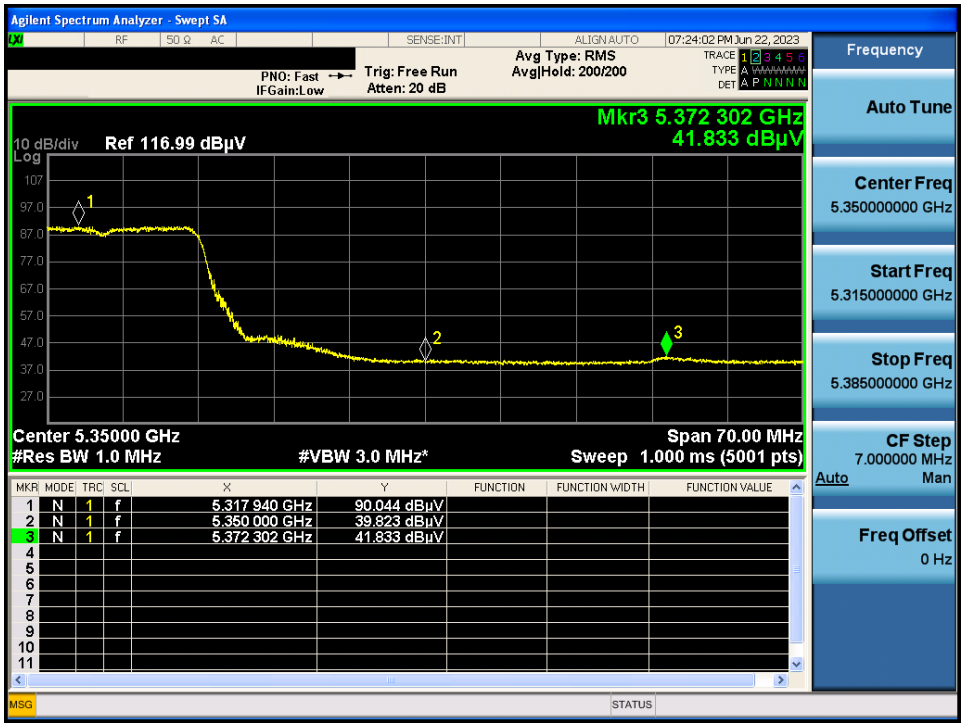


3

TM 2 & U-NII 2A & 5 320 & X axis & Hor **Detector Mode : PK**



TM 2 & U-NII 2A & 5 320 & X axis & Hor **Detector Mode : AV**



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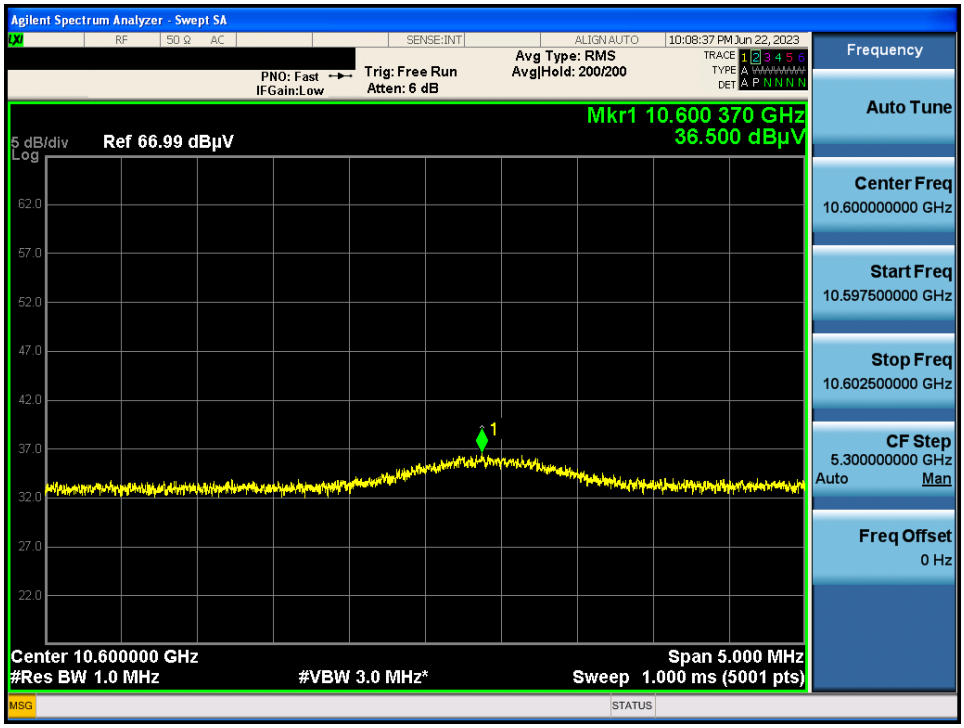
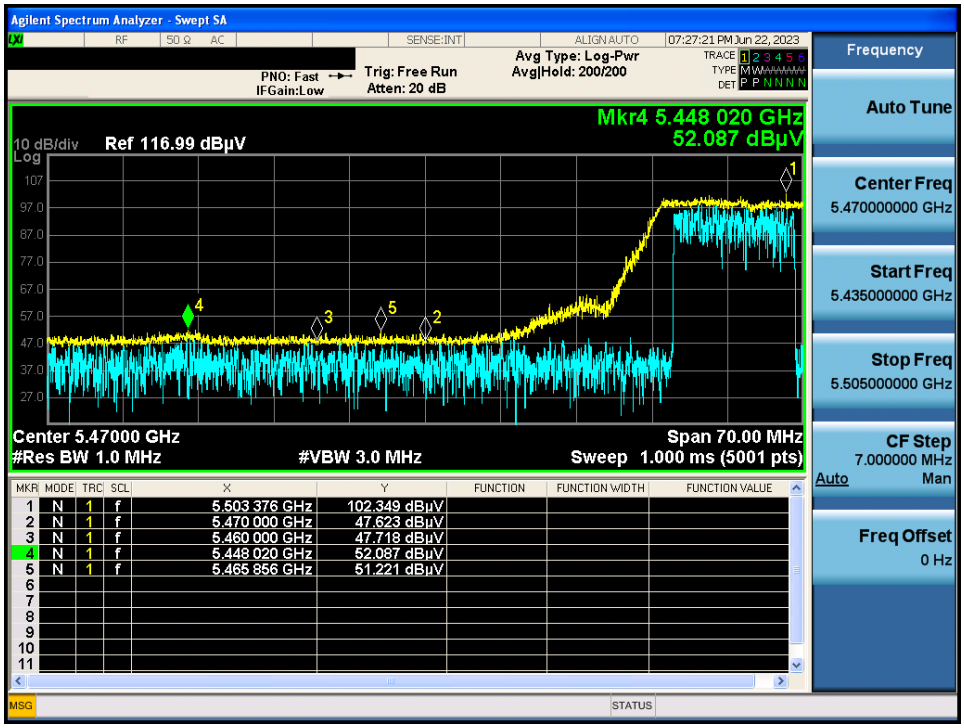
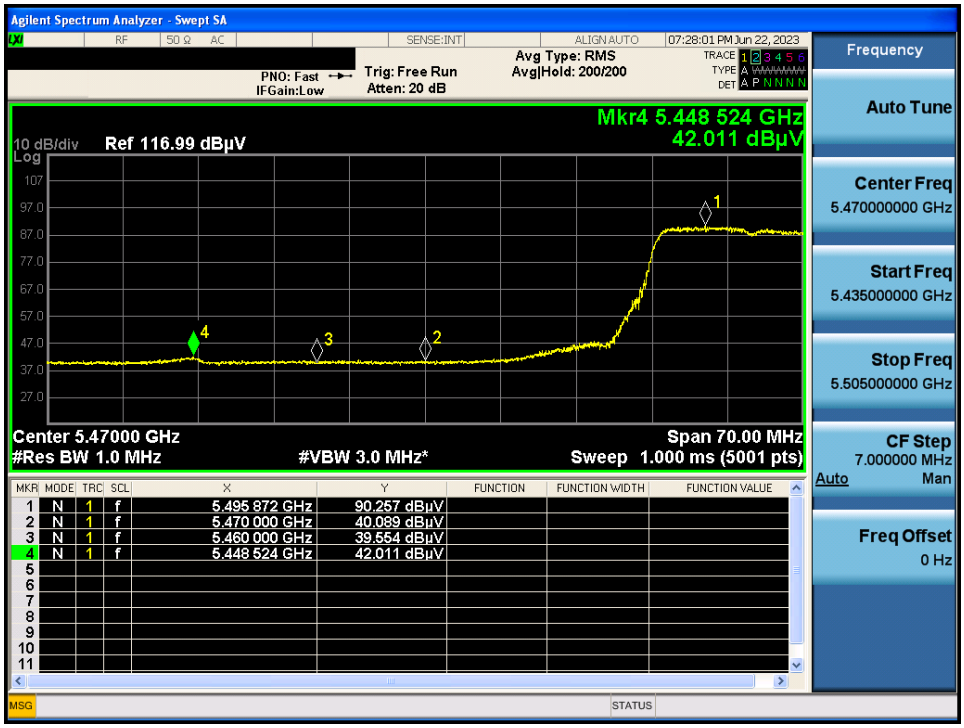


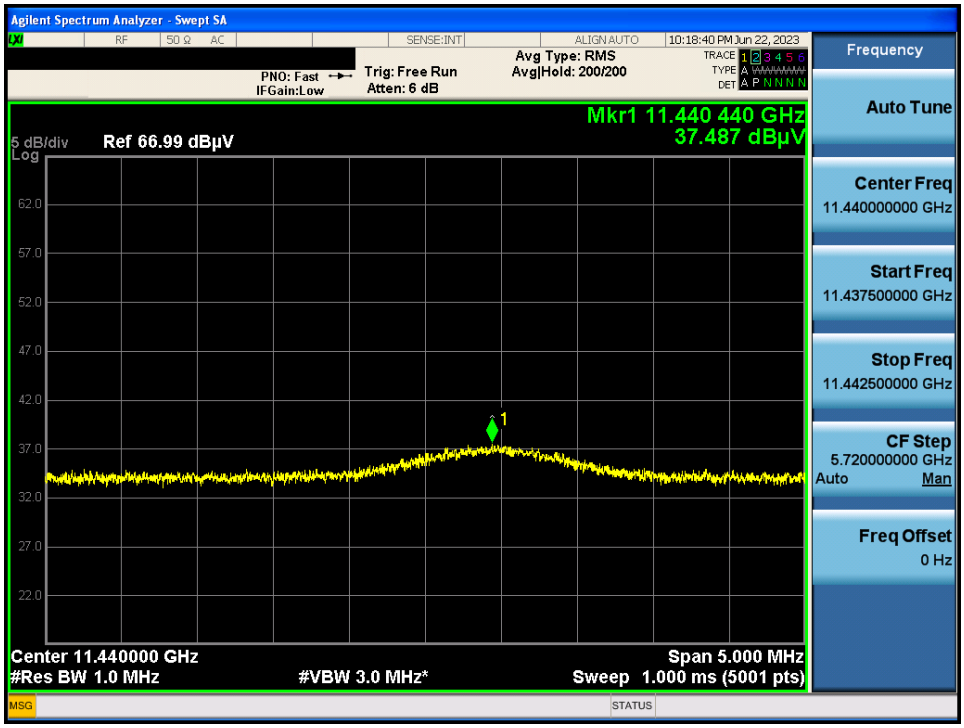
TM 2 & U-NII 2C & 5 500 & X axis & Hor **Detector Mode : PK**



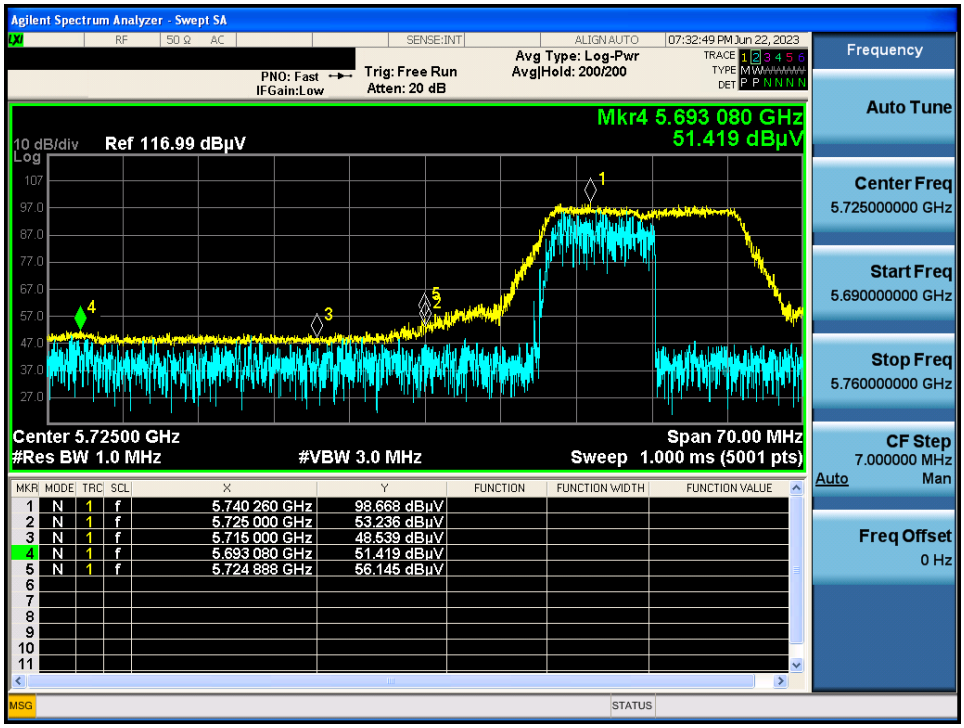
TM 2 & U-NII 2C & 5 500 & X axis & Hor **Detector Mode : AV**



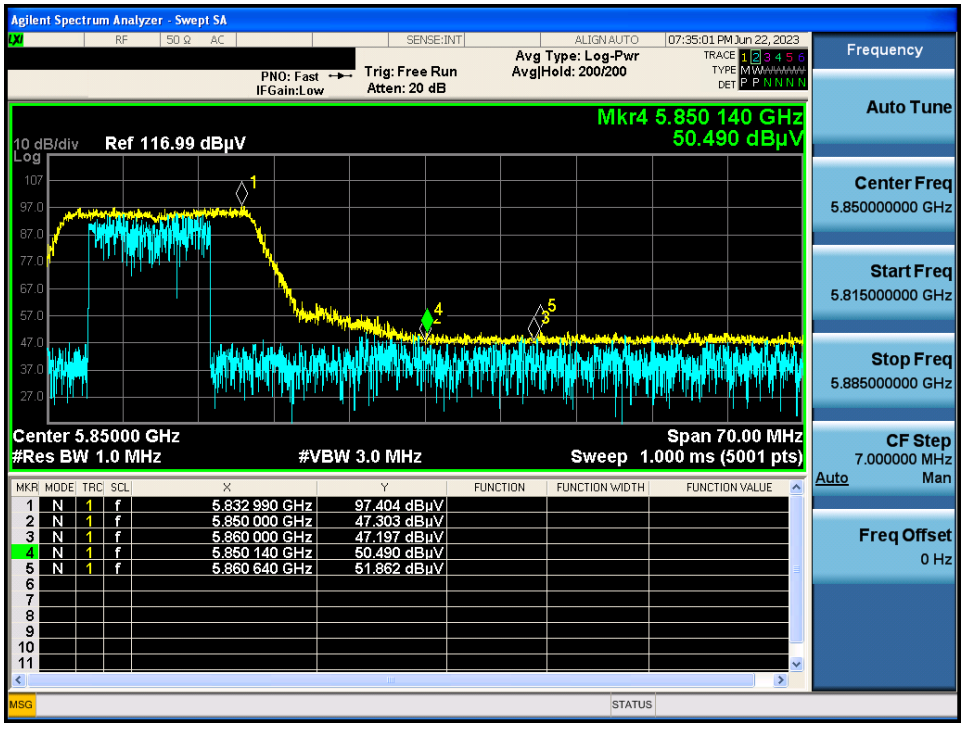
TM 2 & U-NII 2C & 5 720 & X axis & Ver **Detector Mode : AV**



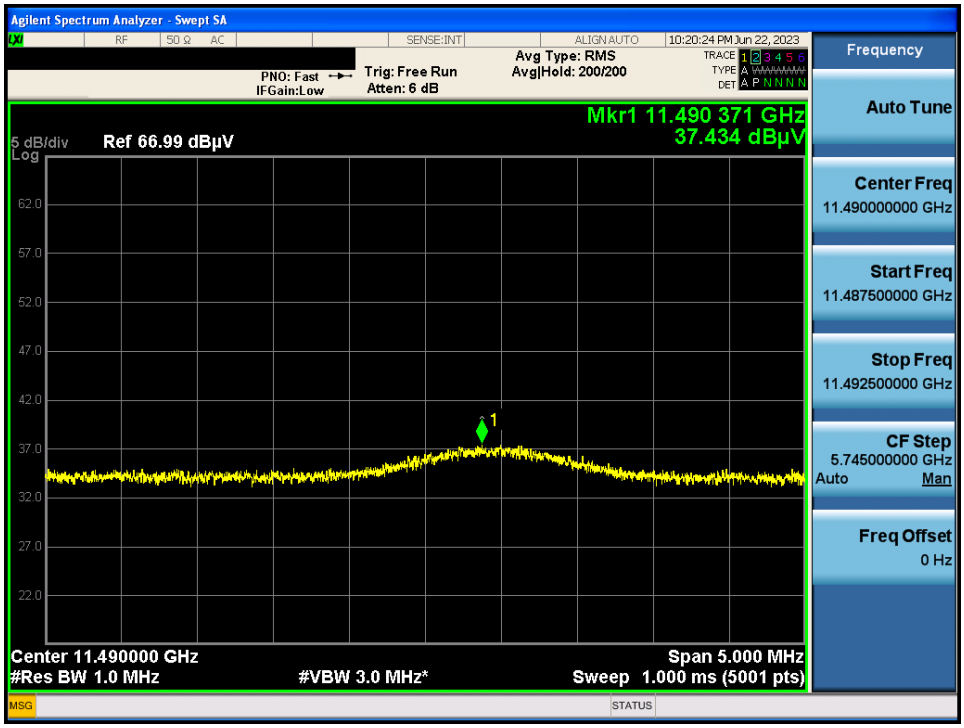
TM 2 & U-NII 3 & 5 745 & X axis & Hor **Detector Mode : PK**



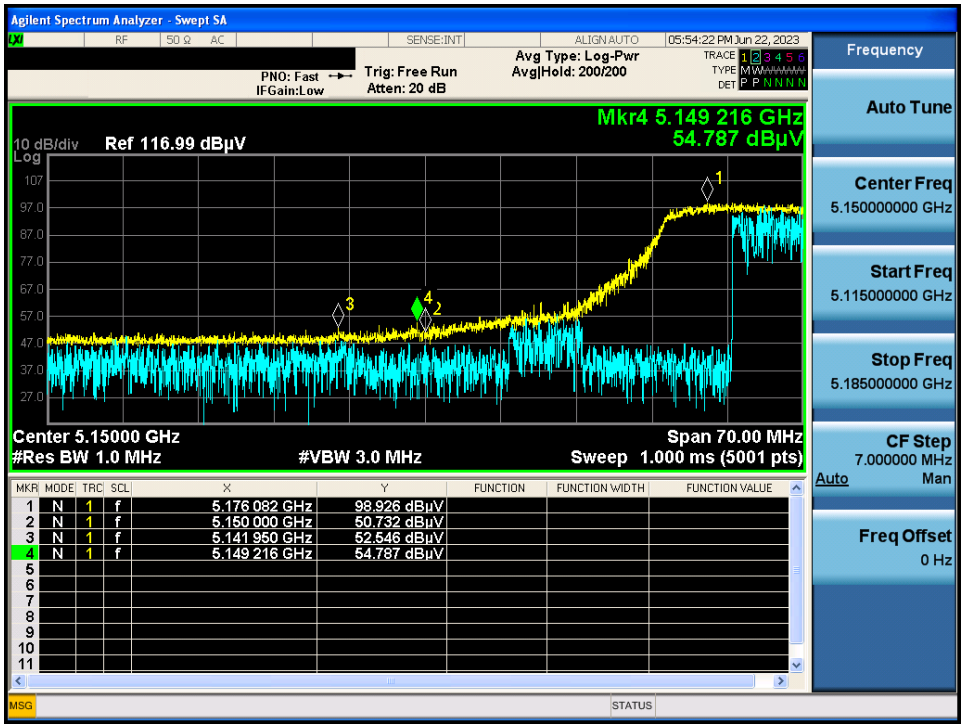
TM 2 & U-NII 3 & 5 825 & X axis & Hor **Detector Mode : PK**



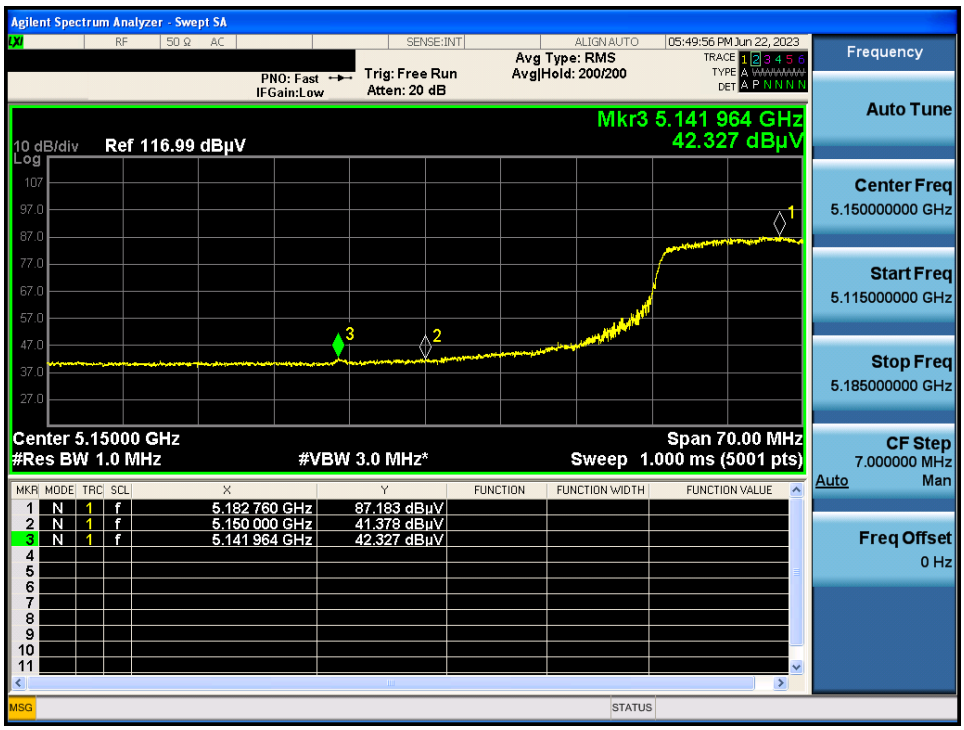
TM 2 & U-NII 3 & 5 745 & X axis & Ver **Detector Mode : AV**



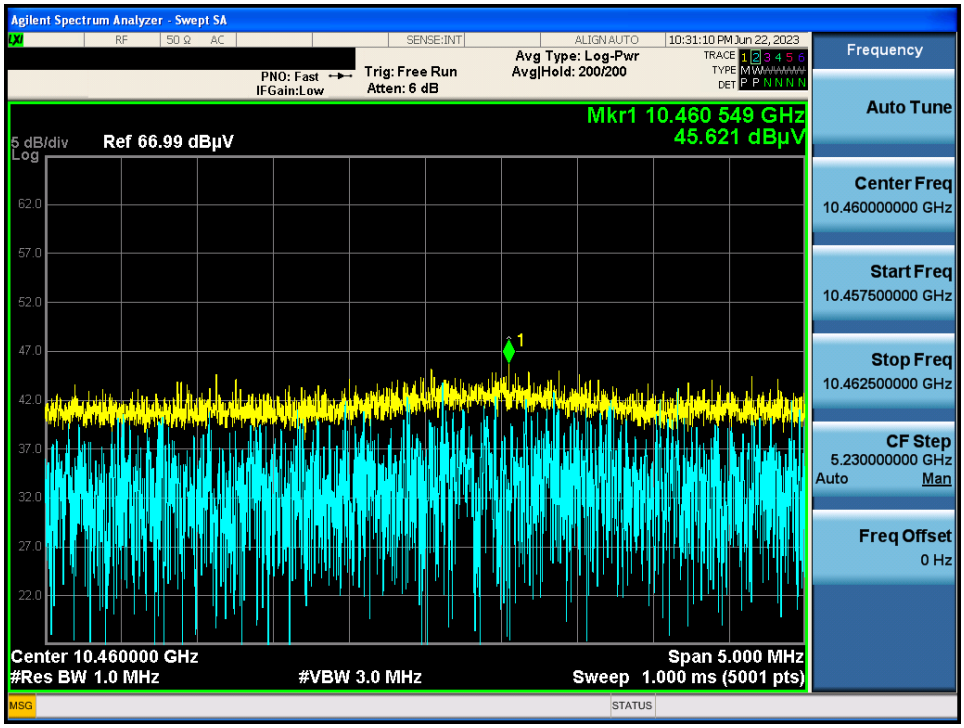
TM 3 & U-NII 1 & 5 190 & X axis & Hor **Detector Mode : PK**



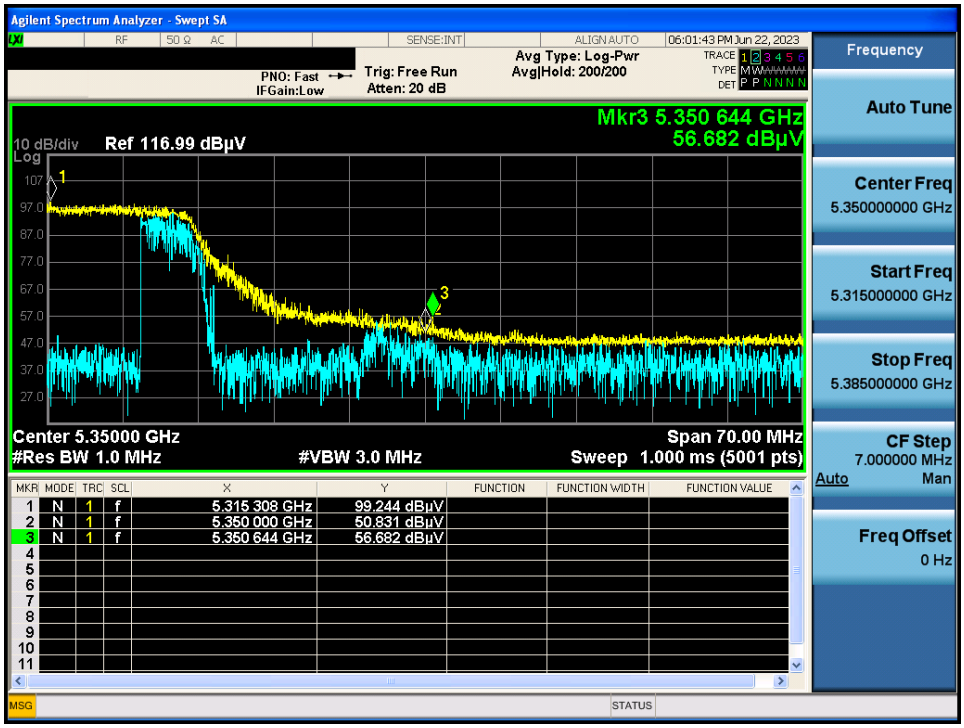
TM 3 & U-NII 1 & 5 190 & X axis & Hor **Detector Mode : AV**



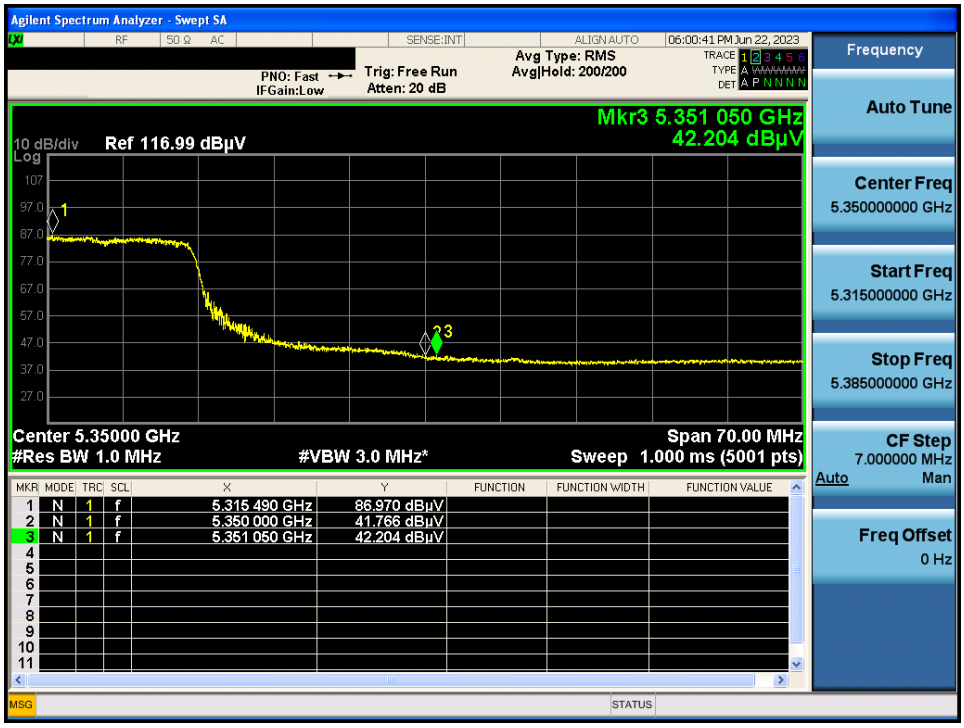
TM 3 & U-NII 1 & 5 230 & X axis & Ver **Detector Mode : PK**



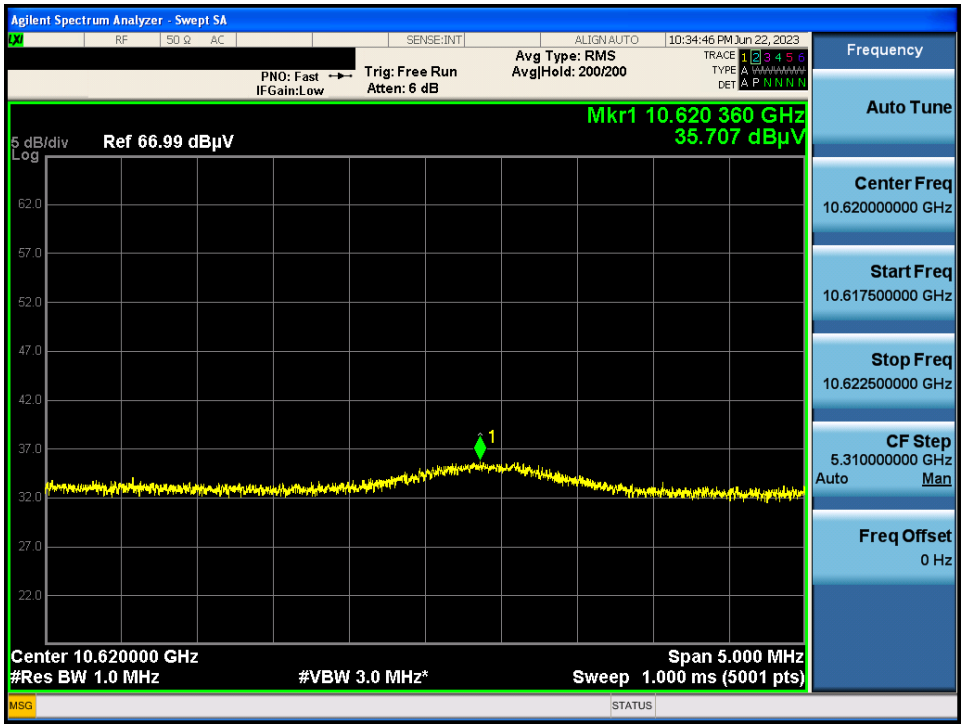
TM 3 & U-NII 2A & 5 310 & X axis & Hor **Detector Mode : PK**



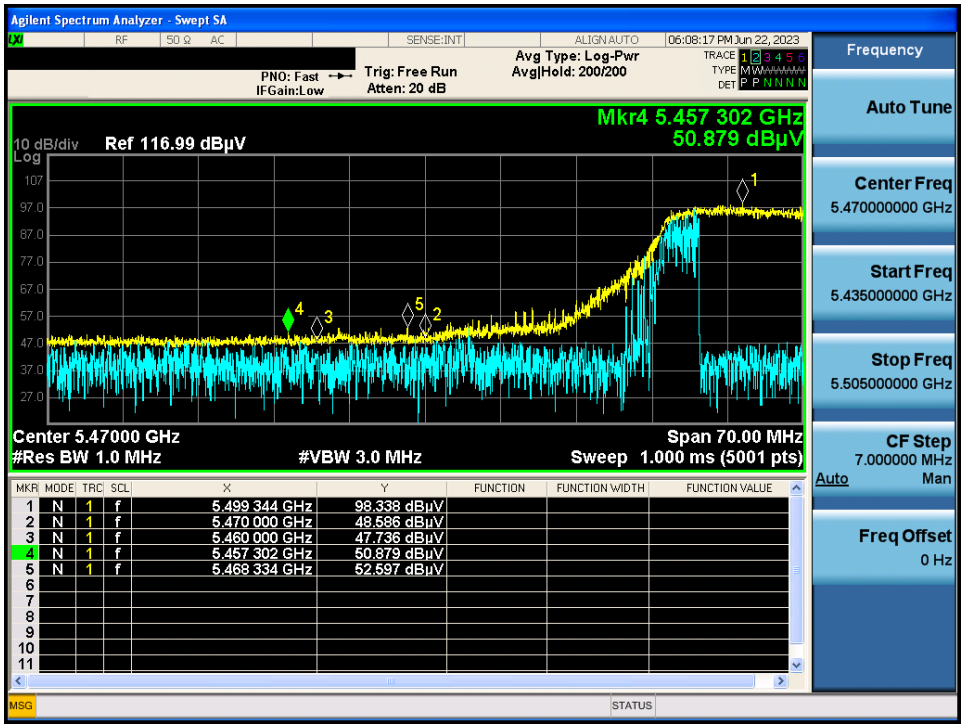
TM 3 & U-NII 2A & 5 310 & X axis & Hor **Detector Mode : AV**



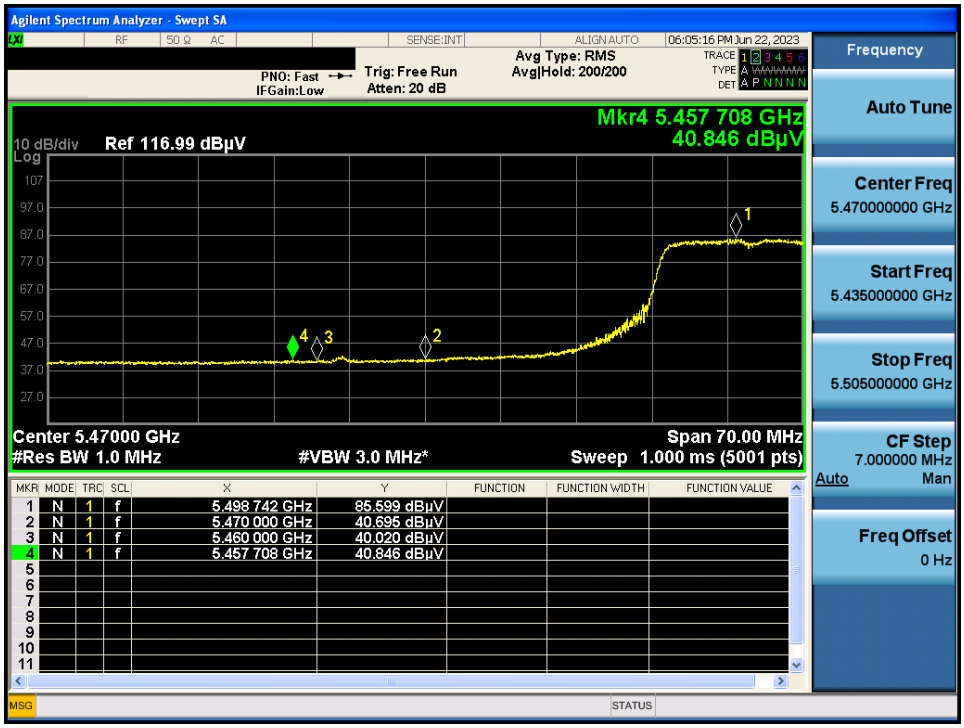
TM 3 & U-NII 2A & 5 310 & X axis & Ver **Detector Mode : AV**



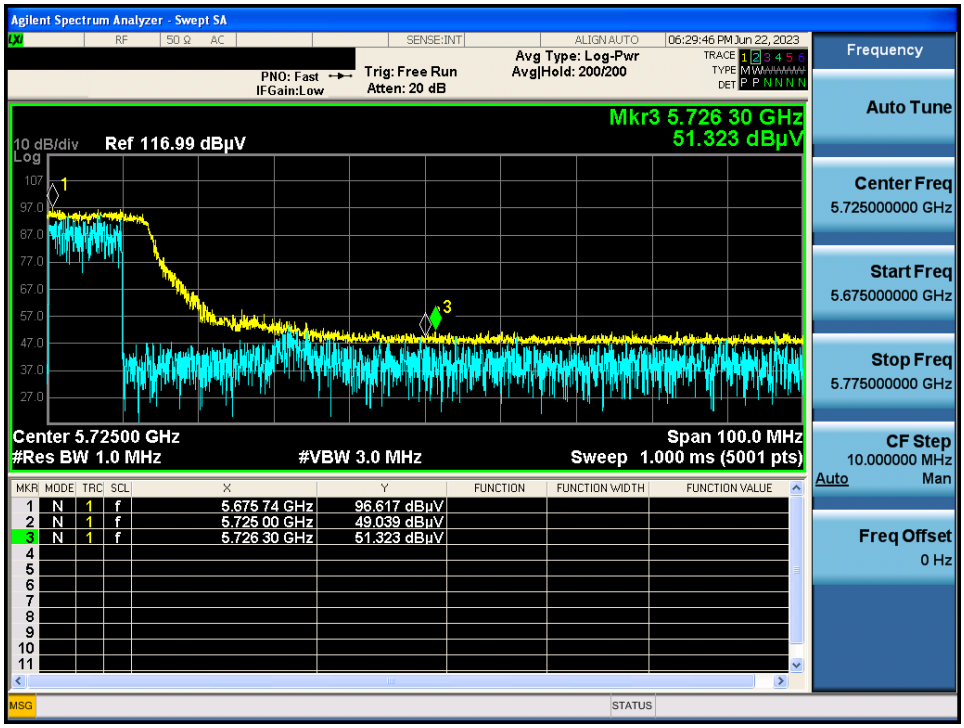
TM 3 & U-NII 2C & 5 510 & X axis & Hor **Detector Mode : PK**



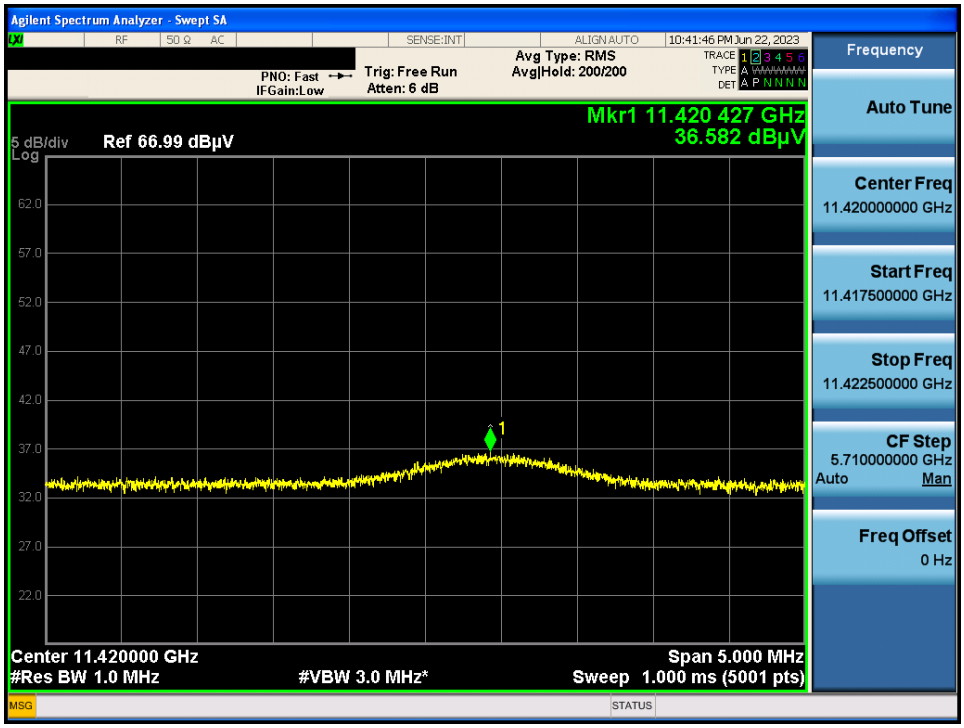
TM 3 & U-NII 2C & 5 510 & X axis & Hor **Detector Mode : AV**



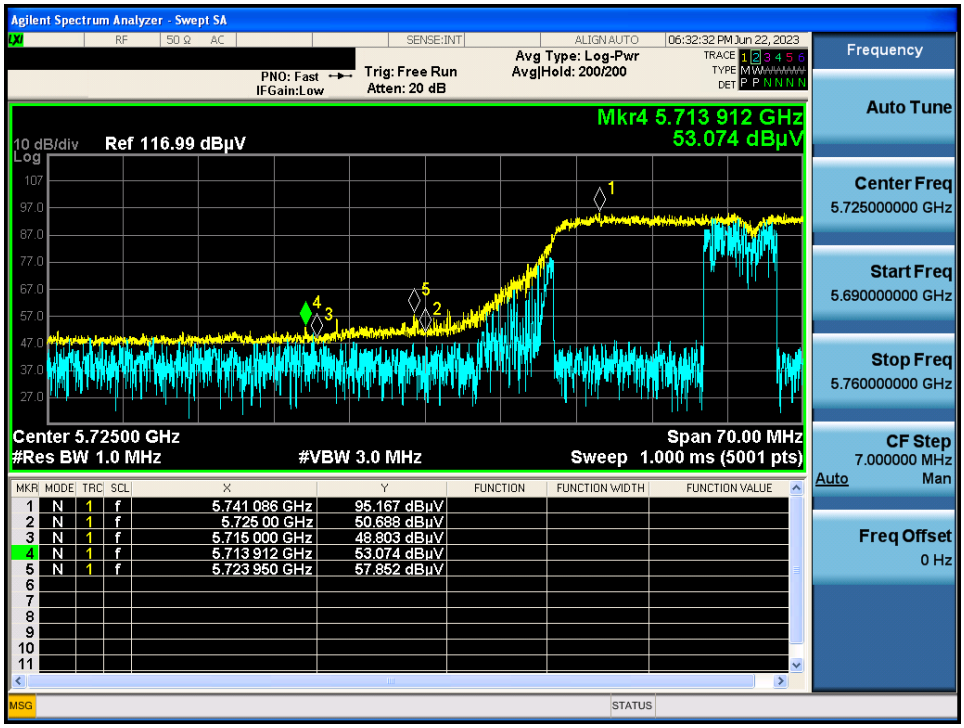
TM 3 & U-NII 2C & 5 710 & X axis & Hor **Detector Mode : PK**



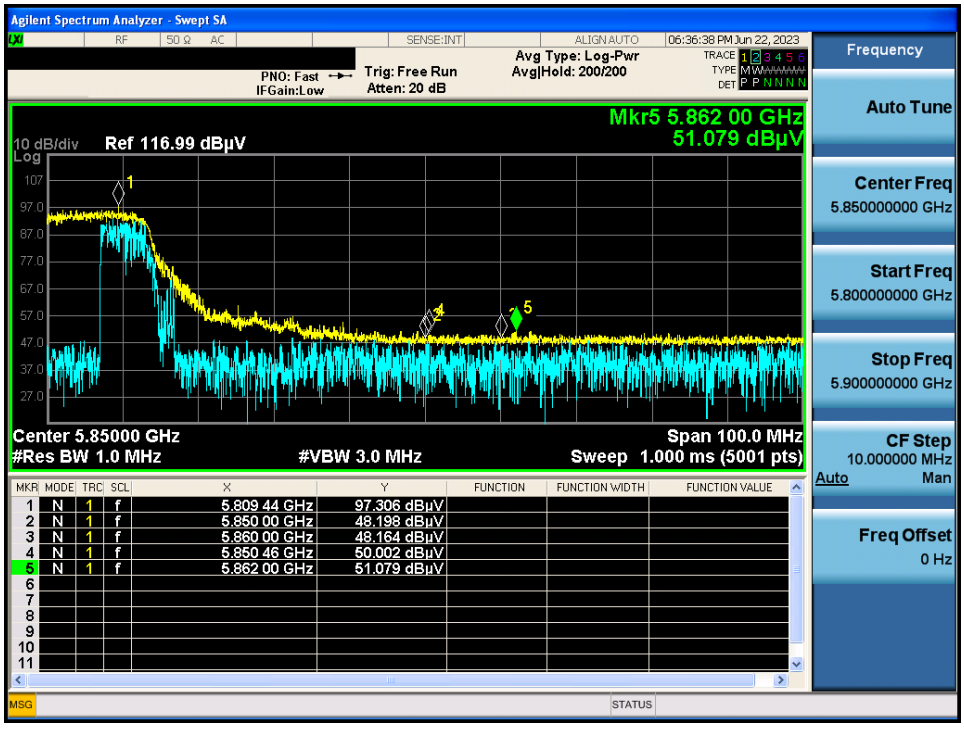
TM 3 & U-NII 2C & 5 710 & X axis & Ver **Detector Mode : AV**



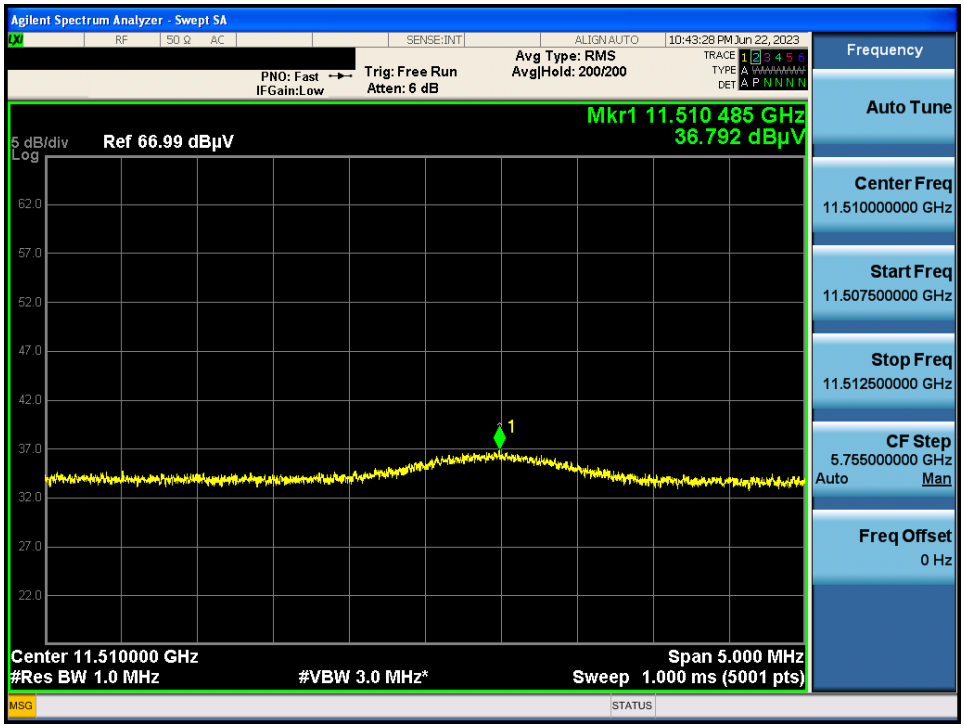
TM 3 & U-NII 3 & 5 755 & X axis & Hor **Detector Mode : PK**



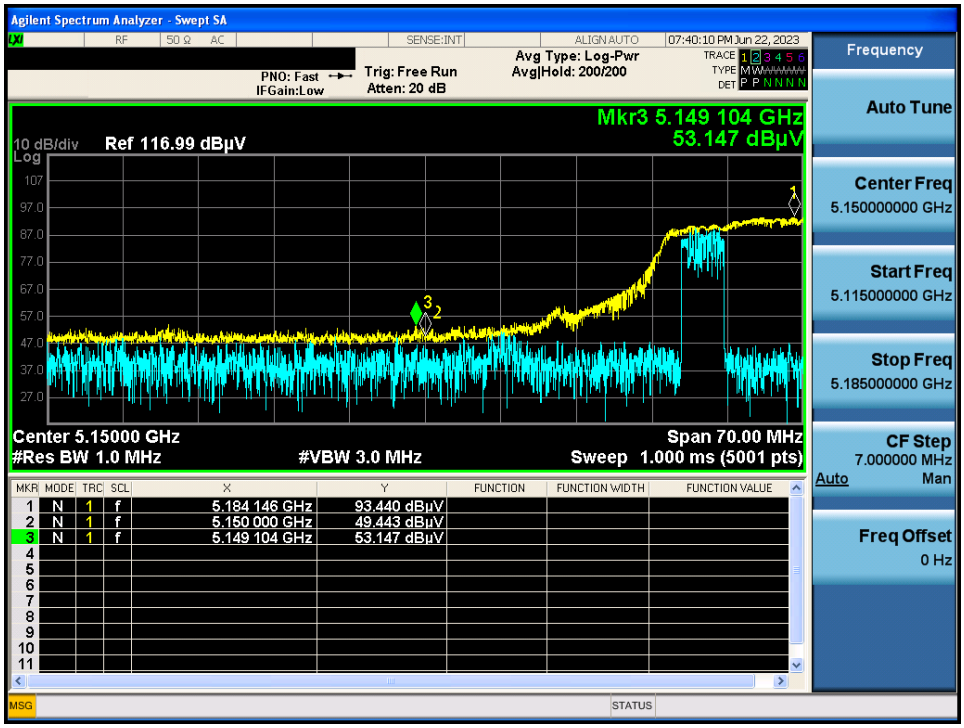
TM 3 & U-NII 3 & 5 795 & X axis & Hor **Detector Mode : PK**



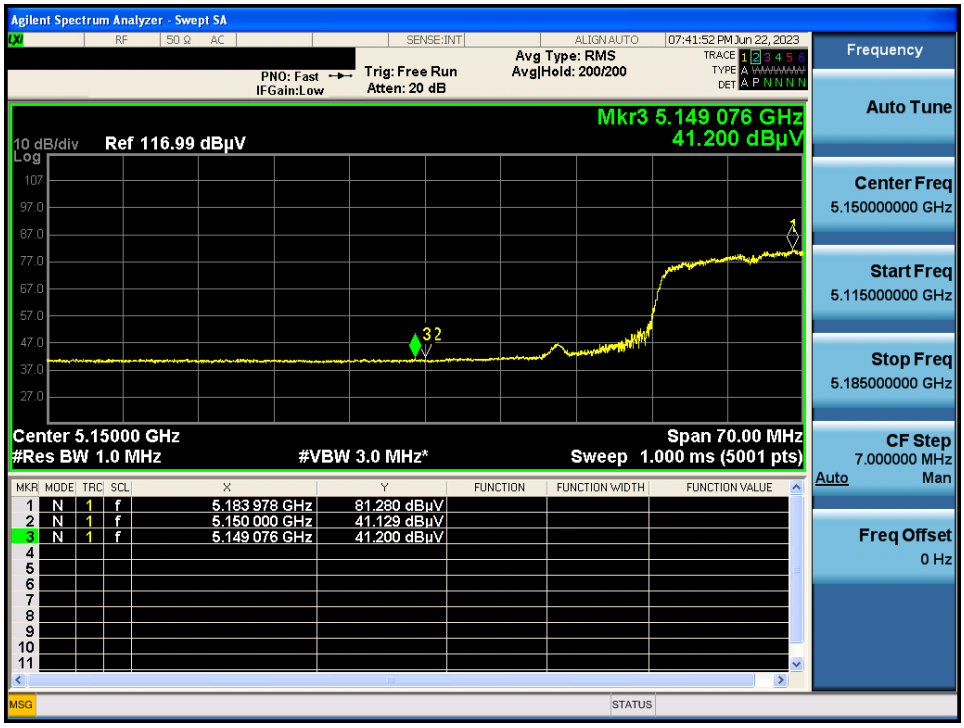
TM 3 & U-NII 3 & 5 755 & X axis & Ver **Detector Mode : AV**



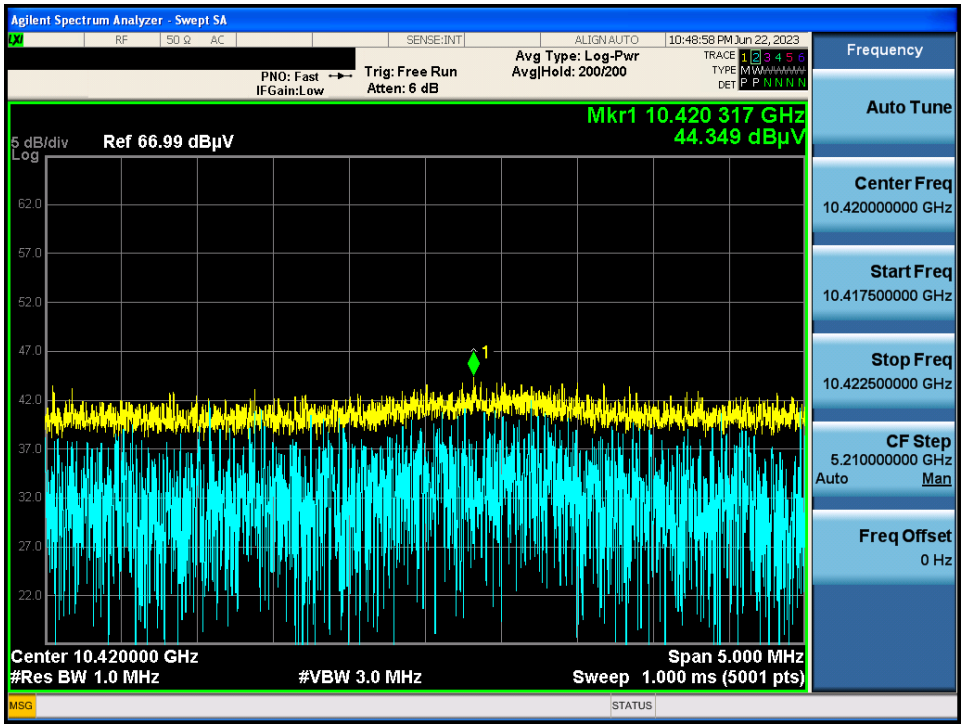
TM 4 & U-NII 1 & 5 210 & X axis & Hor **Detector Mode : PK**



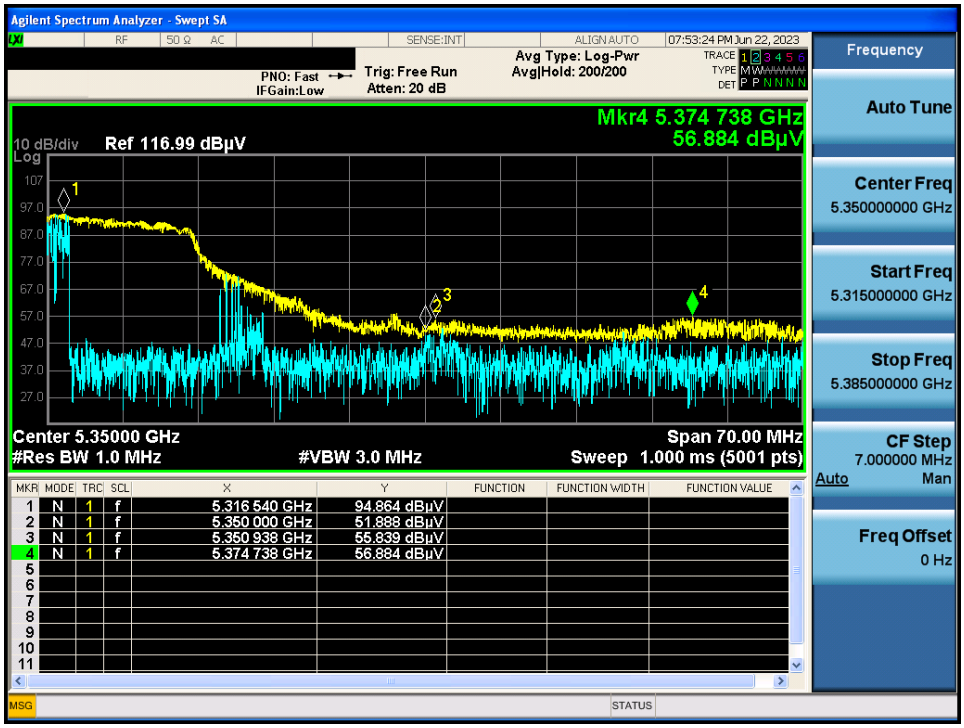
TM 4 & U-NII 1 & 5 210 & X axis & Hor **Detector Mode : AV**



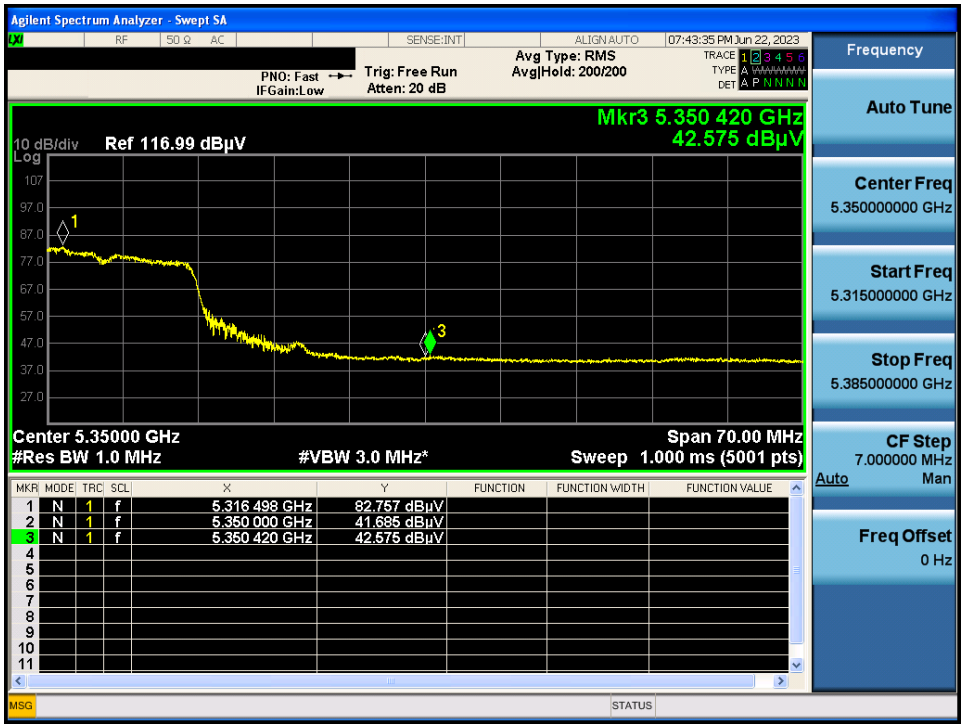
TM 4 & U-NII 1 & 5 210 & X axis & Ver **Detector Mode : PK**



TM 4 & U-NII 2A & 5 290 & X axis & Hor **Detector Mode : PK**



TM 4 & U-NII 2A & 5 290 & X axis & Hor **Detector Mode : AV**



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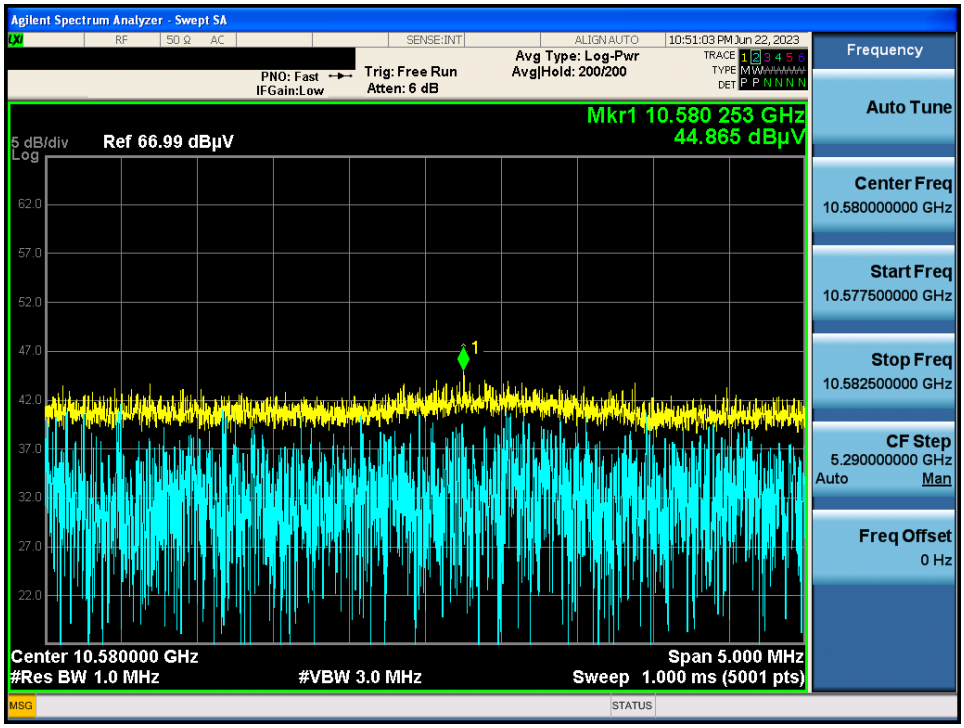
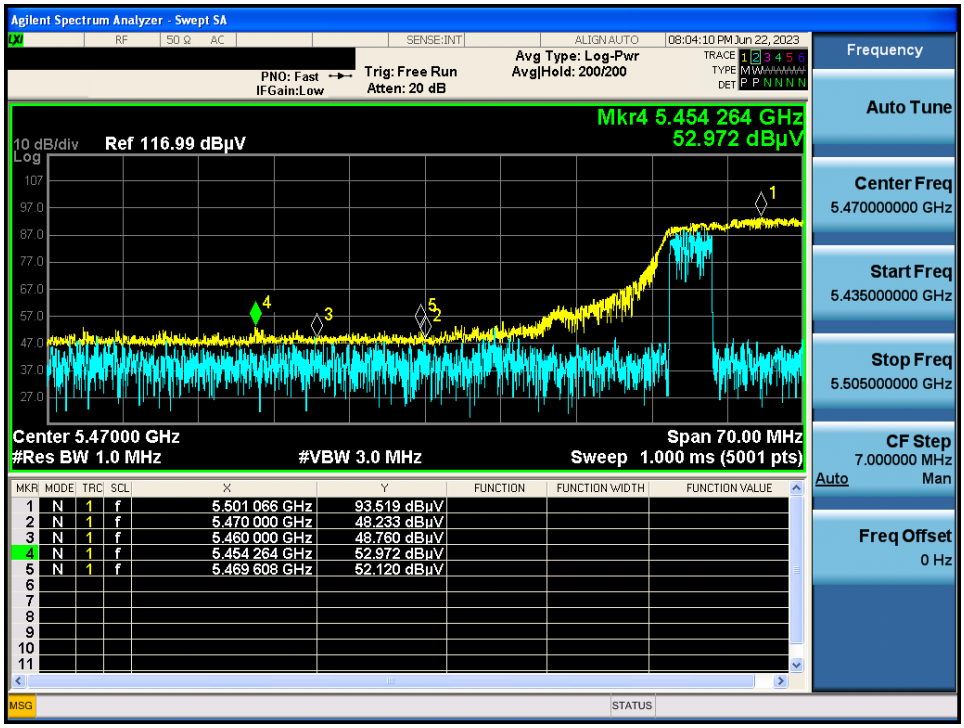
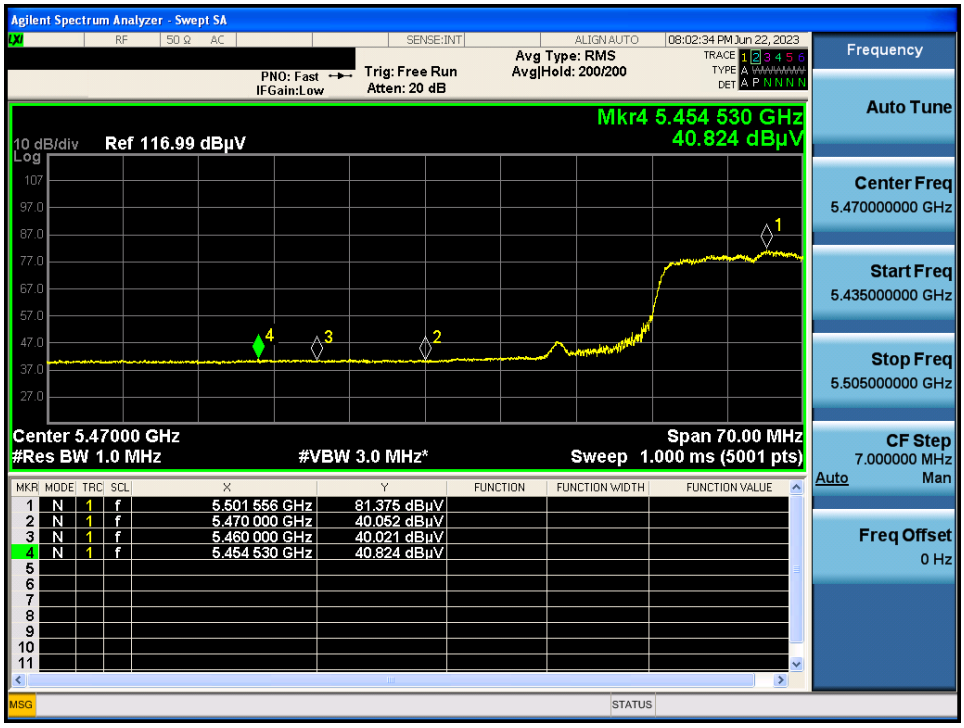


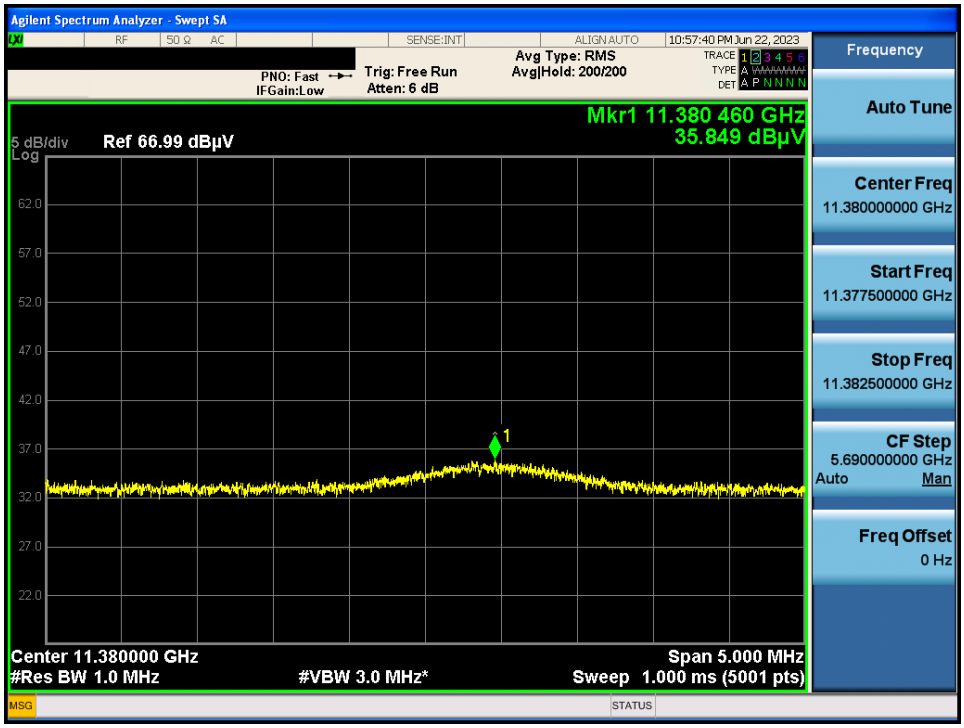
TM 4 & U-NII 2C & 5 530 & X axis & Hor **Detector Mode : PK**



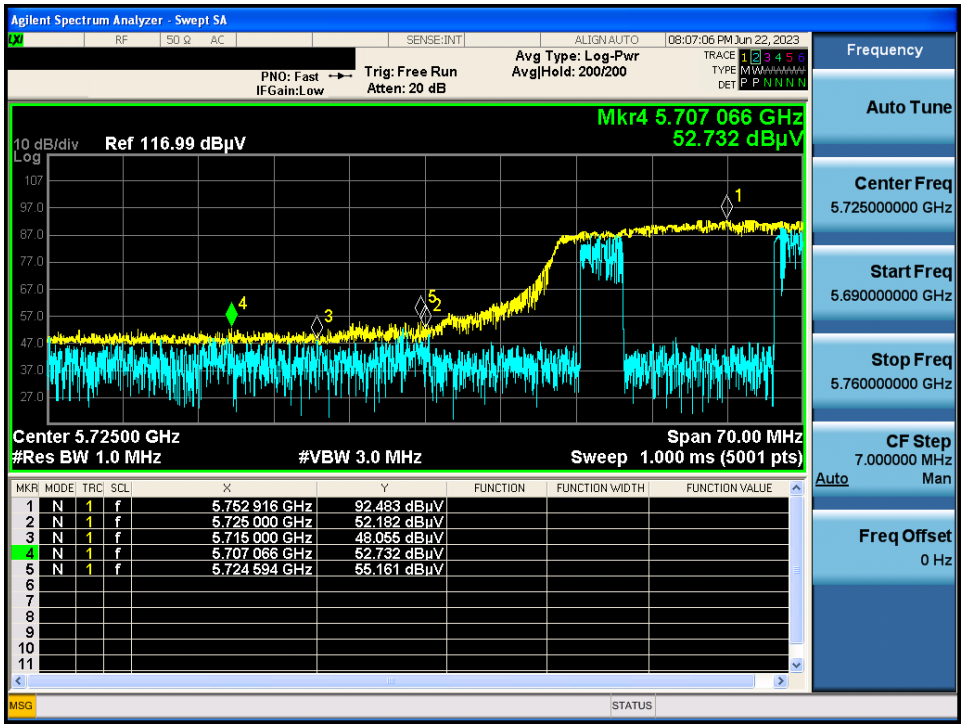
TM 4 & U-NII 2C & 5 530 & X axis & Hor **Detector Mode : AV**



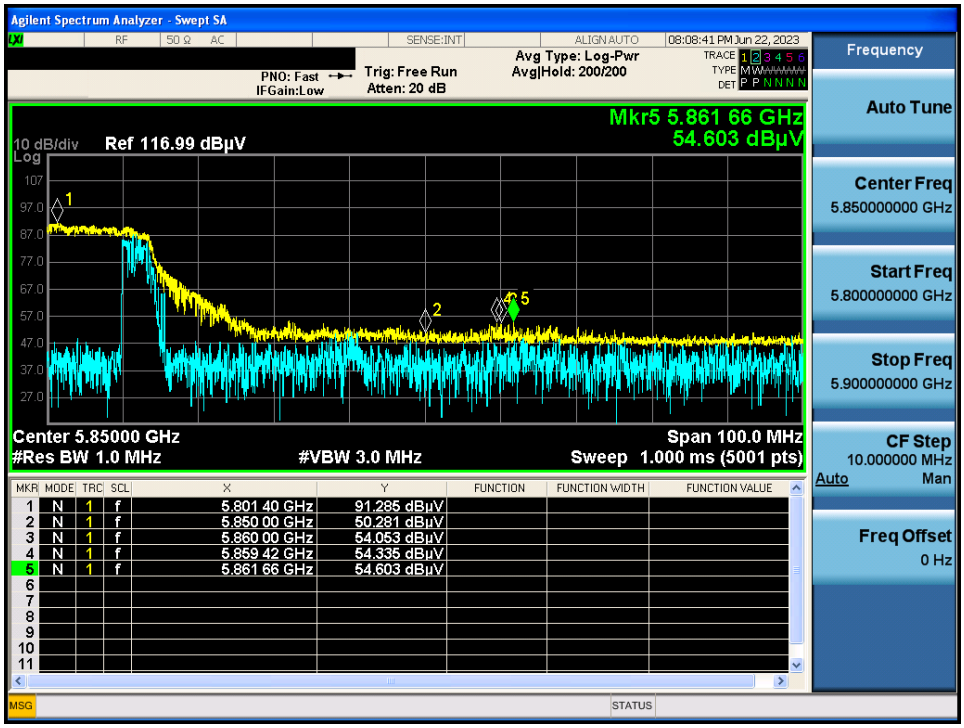
TM 4 & U-NII 2C & 5 690 & X axis & Ver **Detector Mode : AV**



TM 4 & U-NII 3 & 5 775 & X axis & Hor **Detector Mode : PK**



TM 4 & U-NII 3 & 5 775 & X axis & Hor **Detector Mode : PK**



TM 4 & U-NII 3 & 5 775 & X axis & Ver **Detector Mode : AV**