

AC Power-Line Conducted Emissions (Data List)

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

Results of Conducted Emission

DTNC

Date 2023-10-06

Order No.		Reference No.	
Model No.	NFD-100	Power Supply	
Serial No.		Temp/Humi.	21 'C / 41 %
Test Condition	WLAN 5.7G	Operator	S.M.GIL
Memo	802.11a_5745		

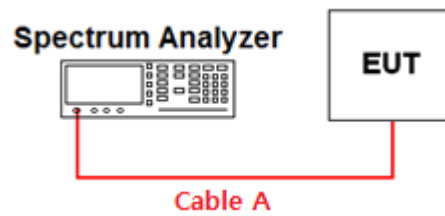
LIMIT : FCC P15.207 AV
FCC P15.207 QP

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	0.25218	38.62	33.16	9.88	48.50	43.04	61.69	51.69	13.19	8.65	N
2	0.27643	36.13	31.24	9.89	46.02	41.13	60.92	50.92	14.90	9.79	N
3	0.56381	34.70	23.85	9.90	44.60	33.75	56.00	46.00	11.40	12.25	N
4	3.44800	17.96	12.63	9.96	27.92	22.59	56.00	46.00	28.08	23.41	N
5	6.19520	1.32	-3.37	10.03	11.35	6.66	60.00	50.00	48.65	43.34	N
6	28.72800	14.23	7.49	10.35	24.58	17.84	60.00	50.00	35.42	32.16	N
7	0.25224	38.83	33.60	9.88	48.71	43.48	61.68	51.68	12.97	8.20	L
8	0.27658	36.06	31.25	9.89	45.95	41.14	60.92	50.92	14.97	9.78	L
9	0.57651	34.97	23.21	9.90	44.87	33.11	56.00	46.00	11.13	12.89	L
10	3.40160	18.68	12.98	9.96	28.64	22.94	56.00	46.00	27.36	23.06	L
11	6.17600	1.73	-2.88	10.03	11.76	7.15	60.00	50.00	48.24	42.85	L
12	28.04080	15.41	8.65	10.35	25.76	19.00	60.00	50.00	34.24	31.00	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**

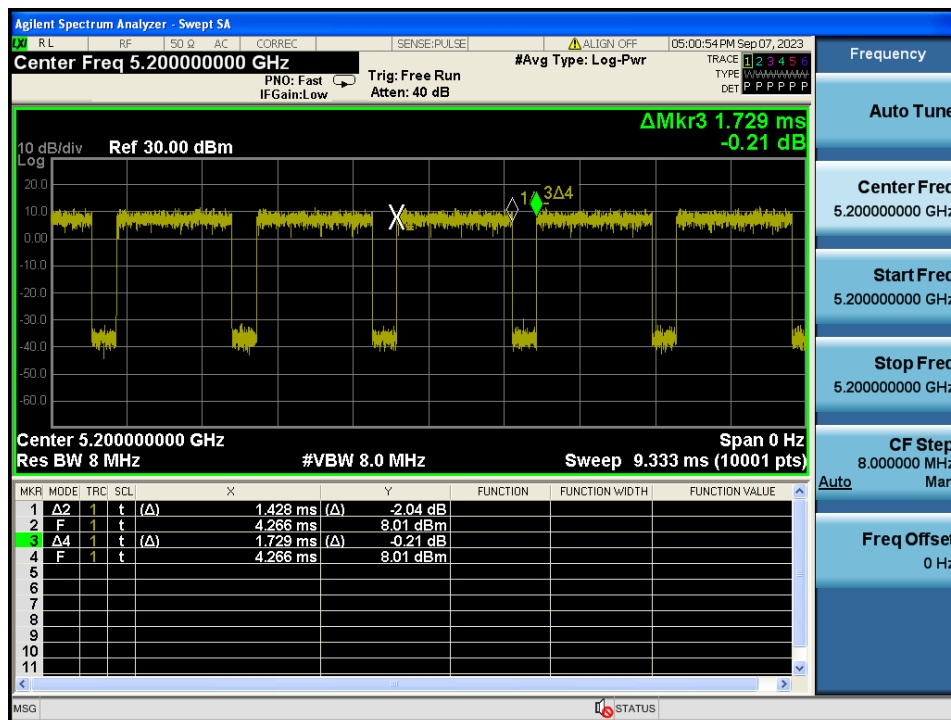
1. Set the center frequency of the spectrum analyzer to the center frequency of the transmission.
2. Set RBW $\geq$ EBW if possible; otherwise, set RBW to the largest available value.
3. Set VBW $\geq$ RBW. Set detector = peak.
4. Note : The zero-span measurement method shall not be used unless both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

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

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

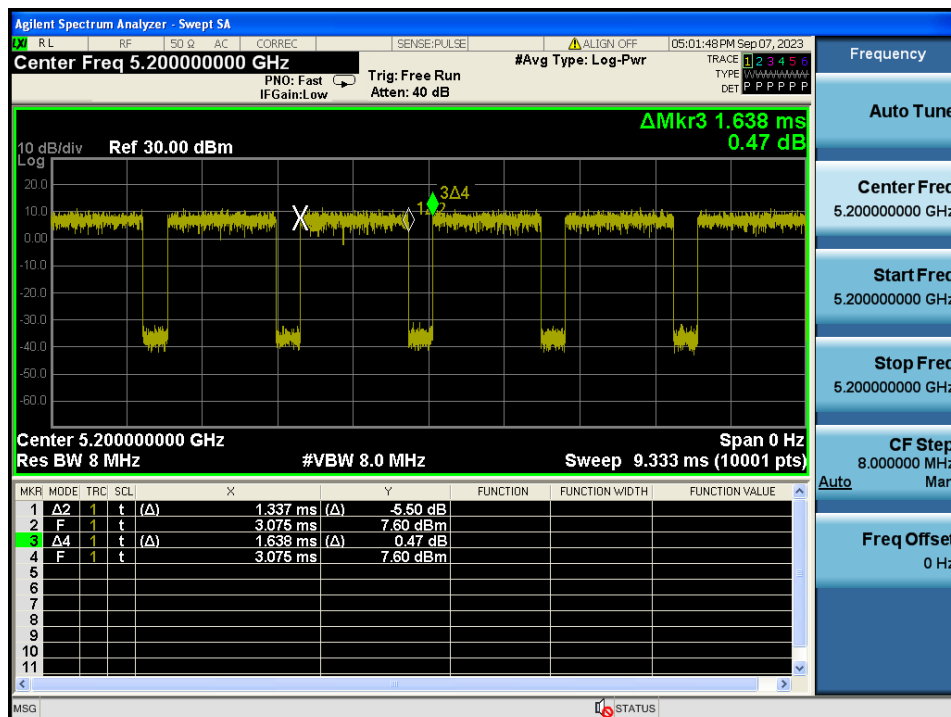
Duty Cycle

Test Mode: TM1 & Ch.40



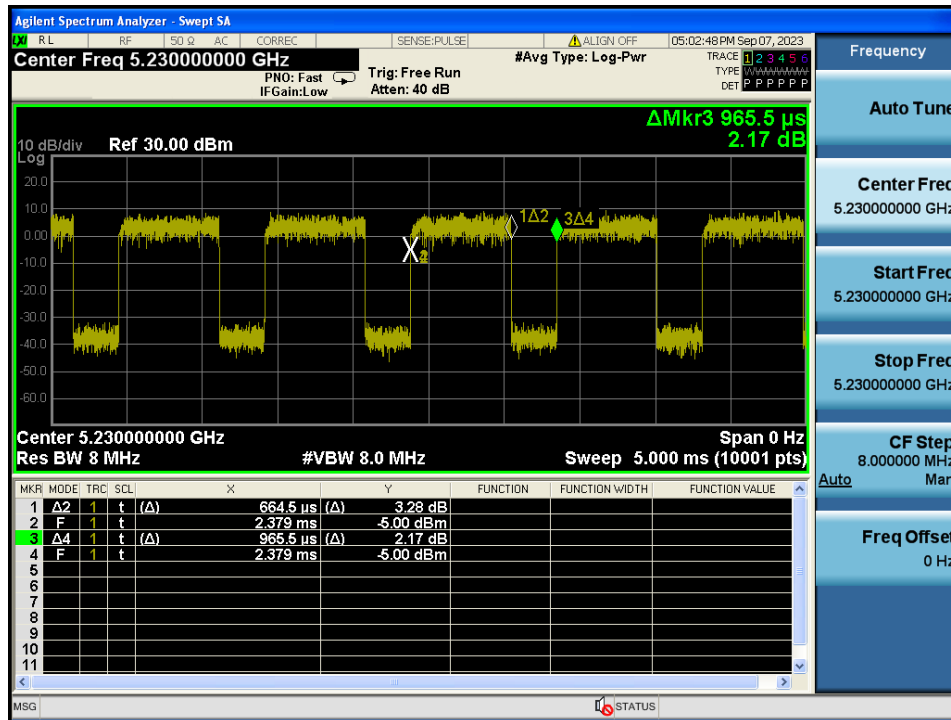
Duty Cycle

Test Mode: TM 2 & Ch.40



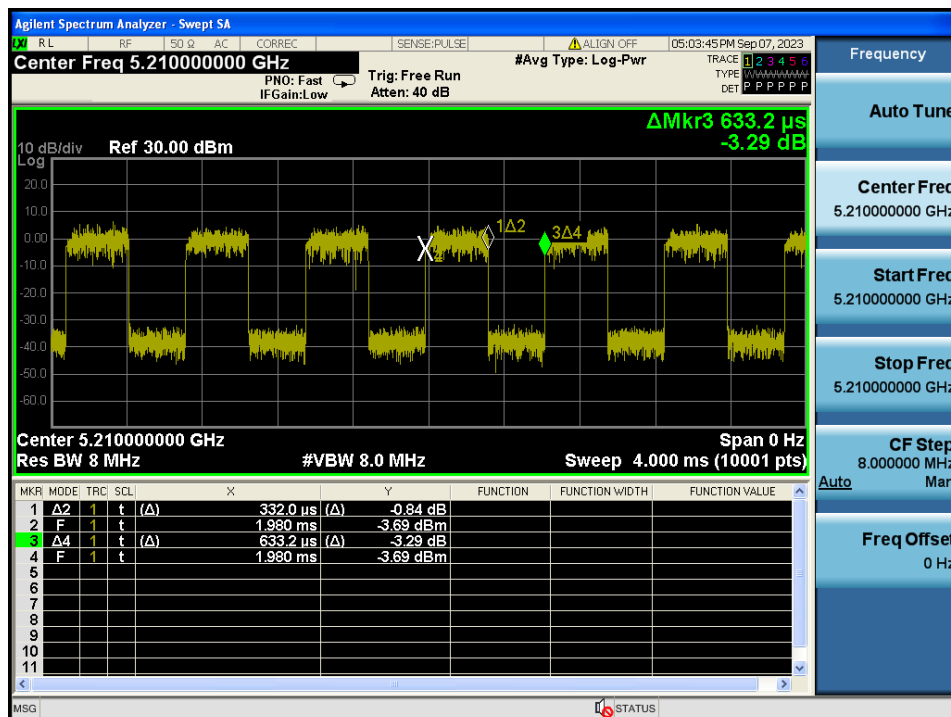
Duty Cycle

Test Mode: TM 3 & Ch.46



Duty Cycle

Test Mode: TM 4 & Ch.42

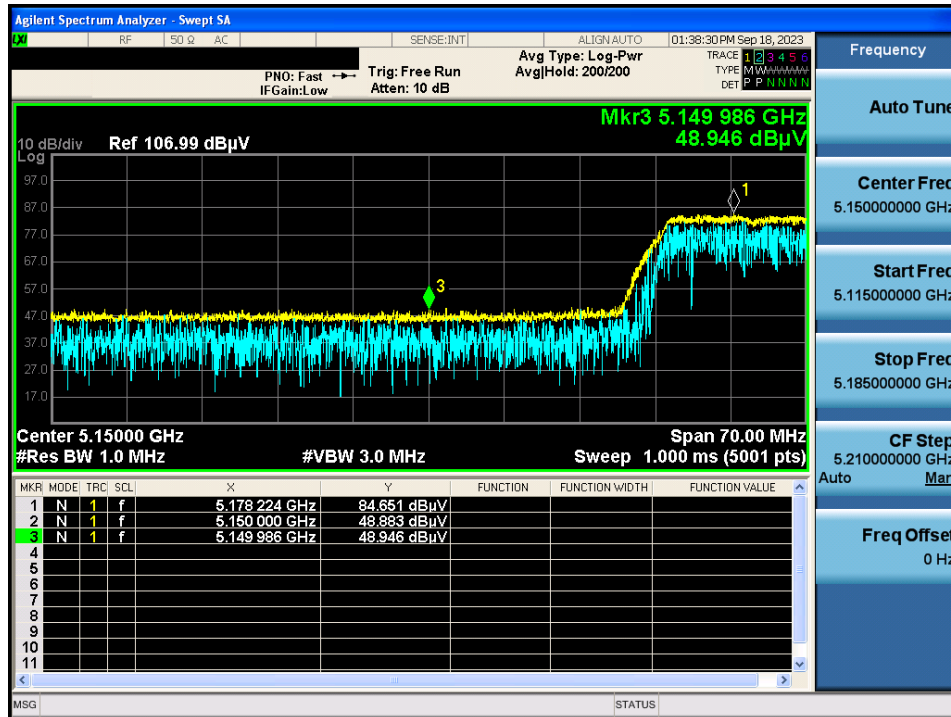


APPENDIX III

Unwanted Emissions (Radiated) Test Plot:

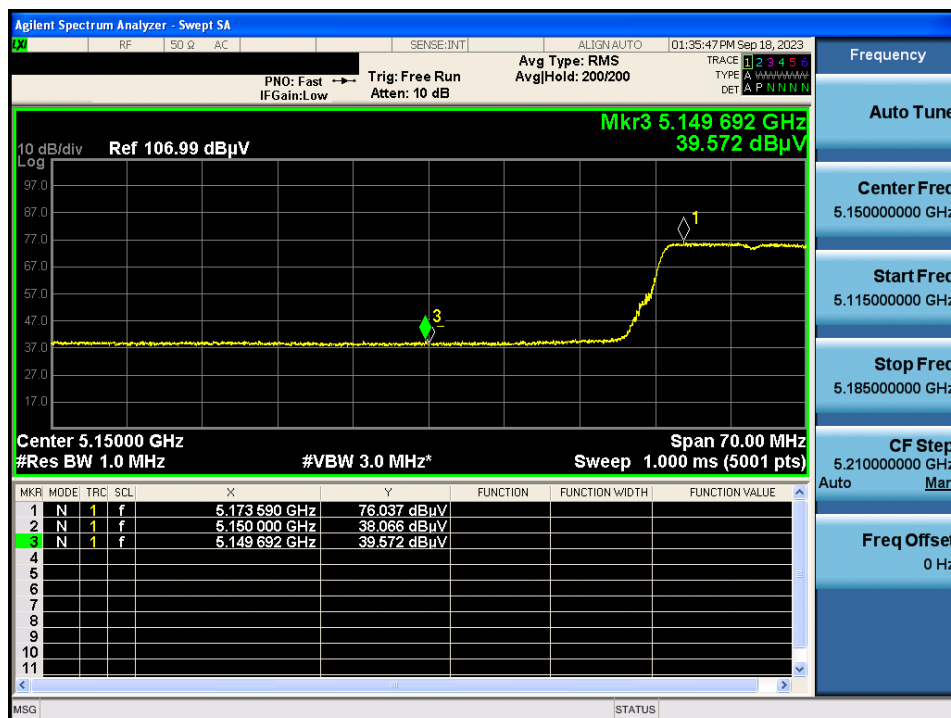
TM 1 & U-NII 1 & 5 180 & X axis & Hor

Detector Mode : PK



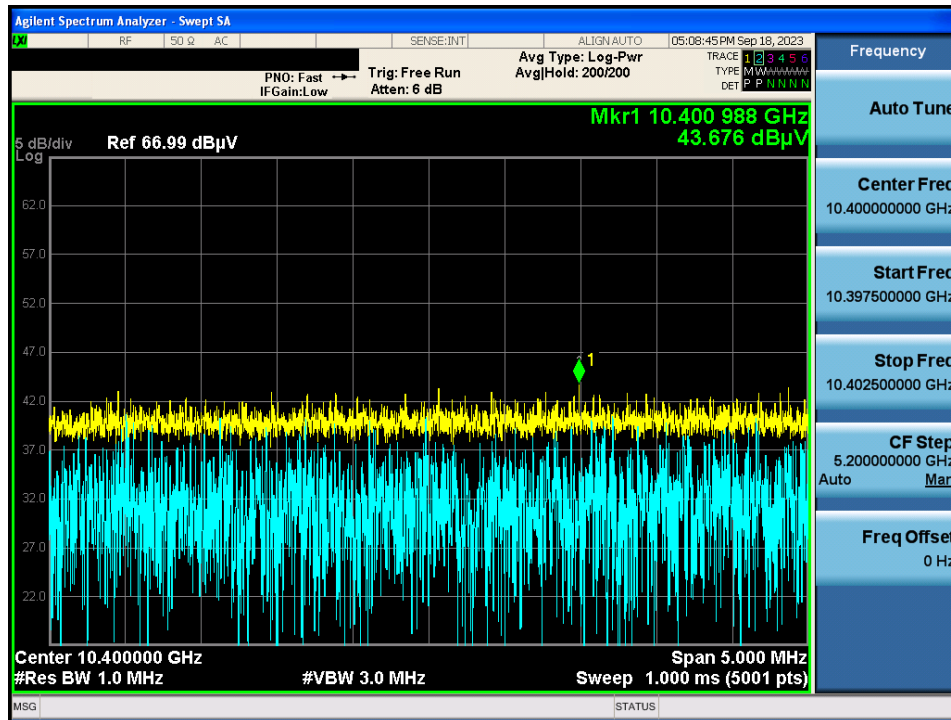
TM 1 & U-NII 1 & 5 180 & X axis & Hor

Detector Mode : AV



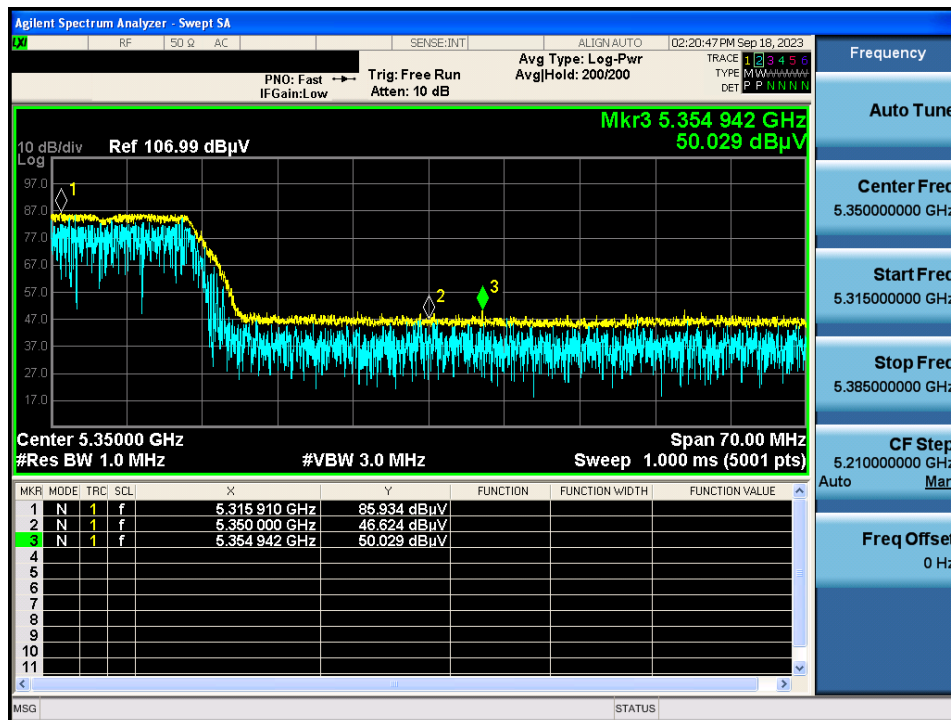
TM 1 & U-NII 1 & 5 200 & X axis & Hor

Detector Mode : PK



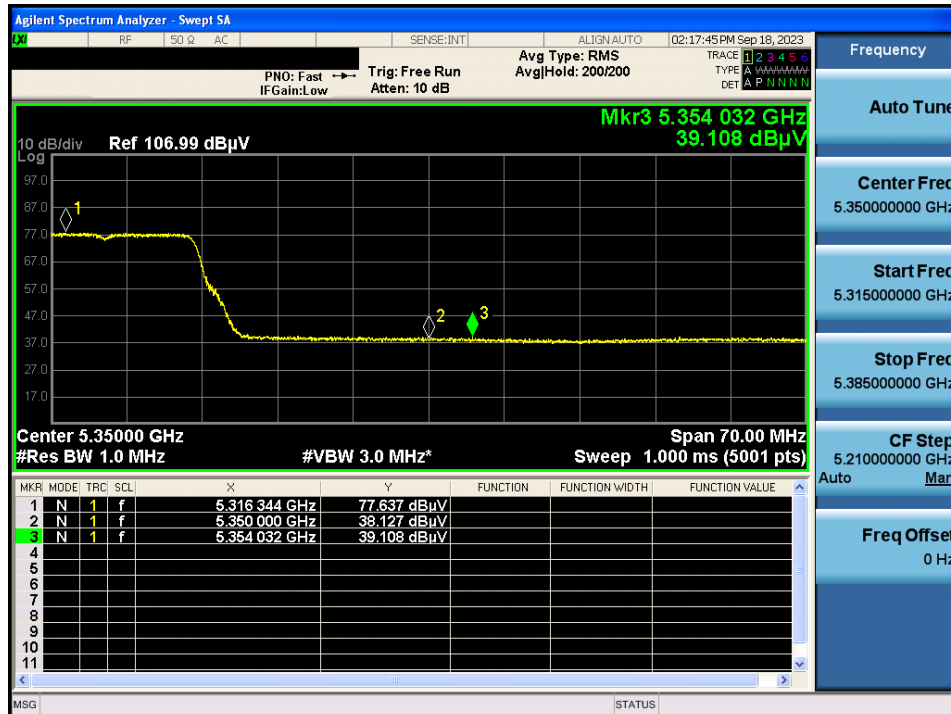
TM 1 & U-NII 2A & 5 320 & X axis & Hor

Detector Mode : PK



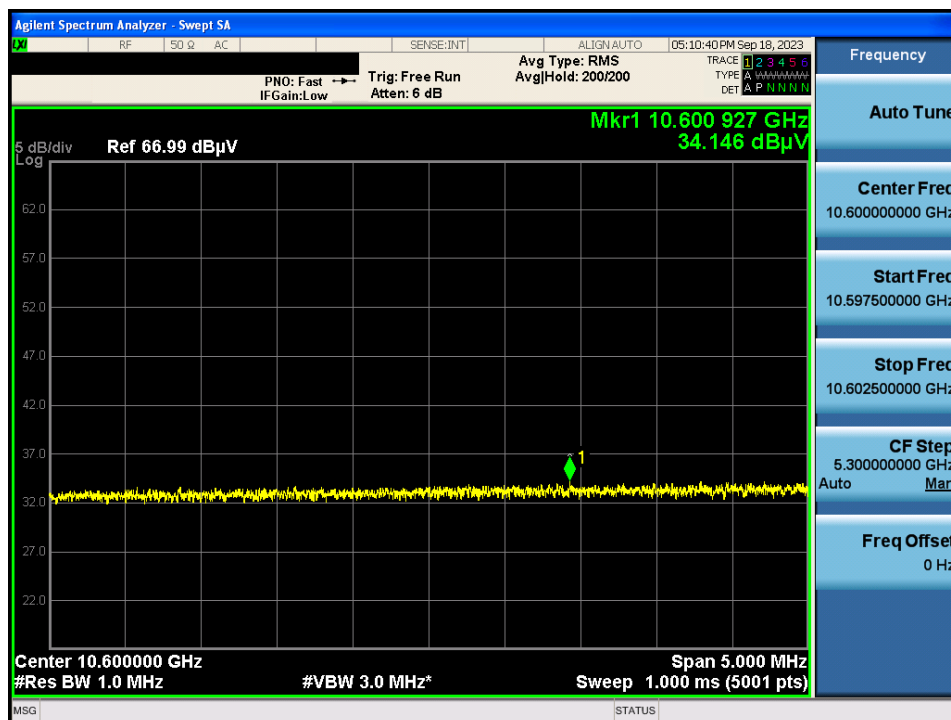
TM 1 & U-NII 2A & 5 320 & X axis & Hor

Detector Mode : AV



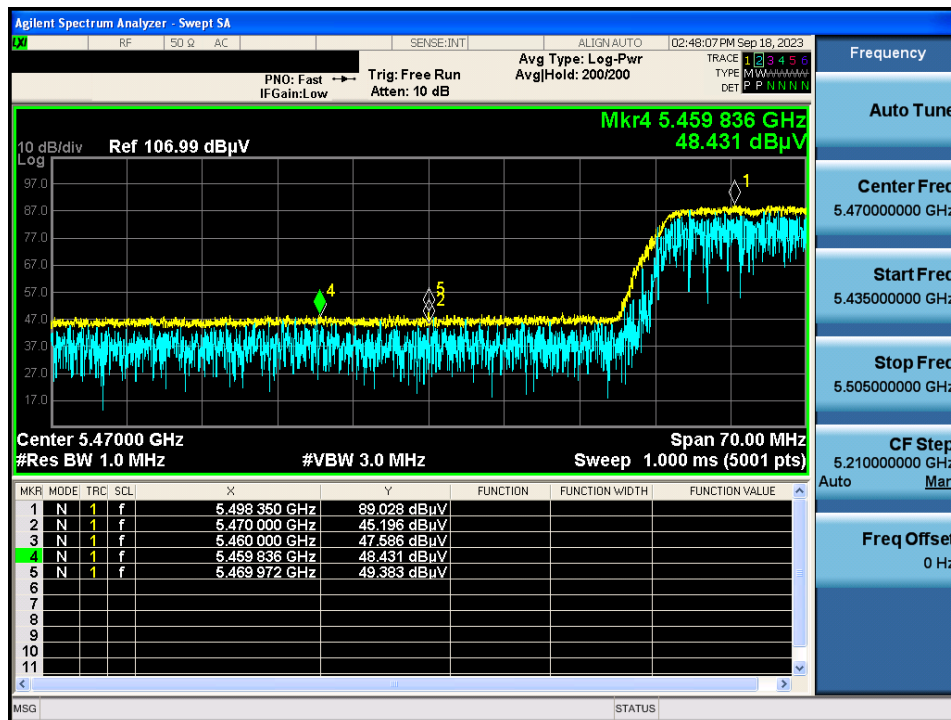
TM 1 & U-NII 2A & 5 300 & X axis & Hor

Detector Mode : AV



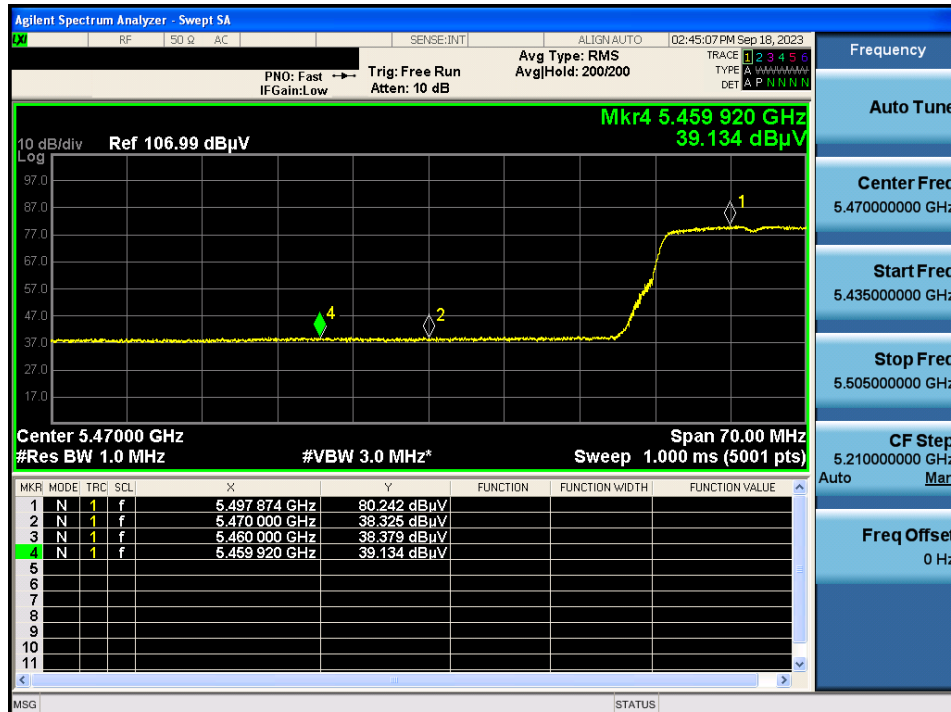
TM 1 & U-NII 2C & 5 500 & X axis & Hor

Detector Mode : PK



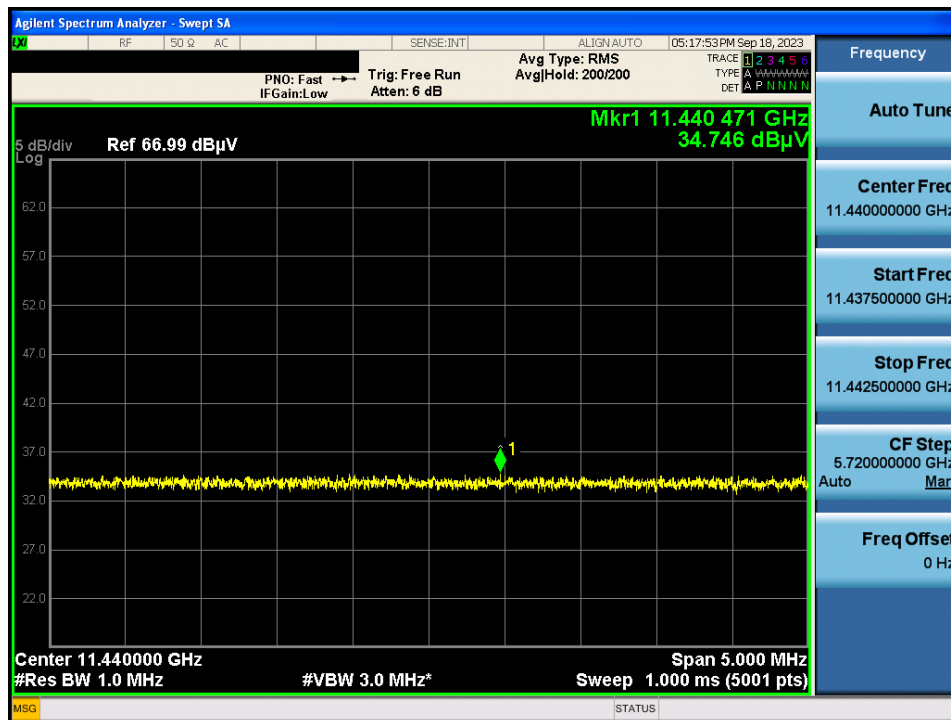
TM 1 & U-NII 2C & 5 500 & X axis & Hor

Detector Mode : AV



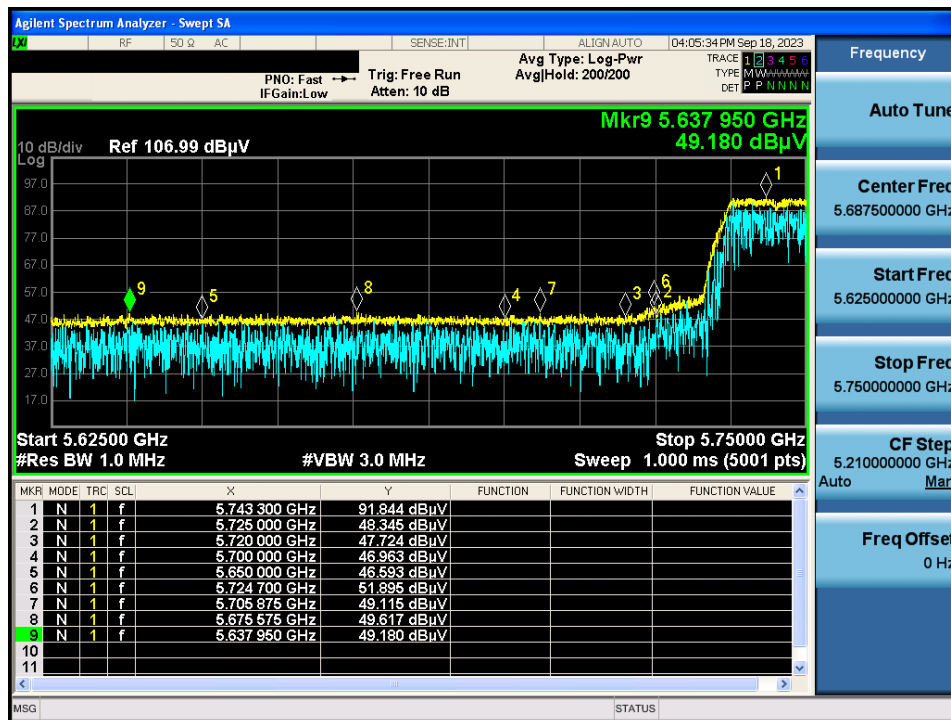
TM 1 & U-NII 2C & 5 720 & X axis & Hor

Detector Mode : AV



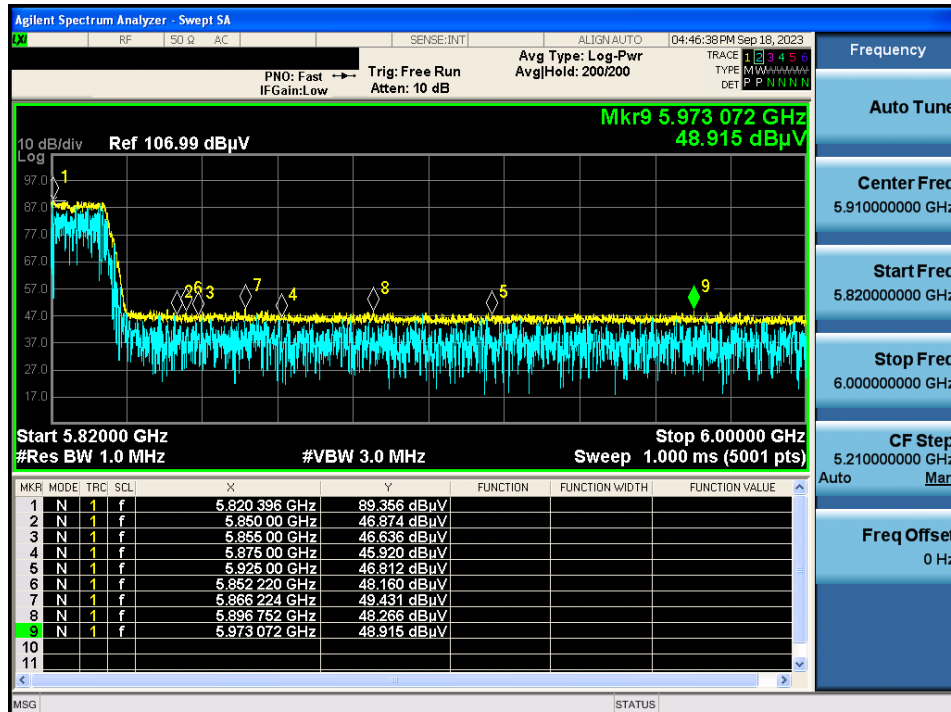
TM 1 & U-NII 3 & 5 745 & X axis & Hor

Detector Mode : PK



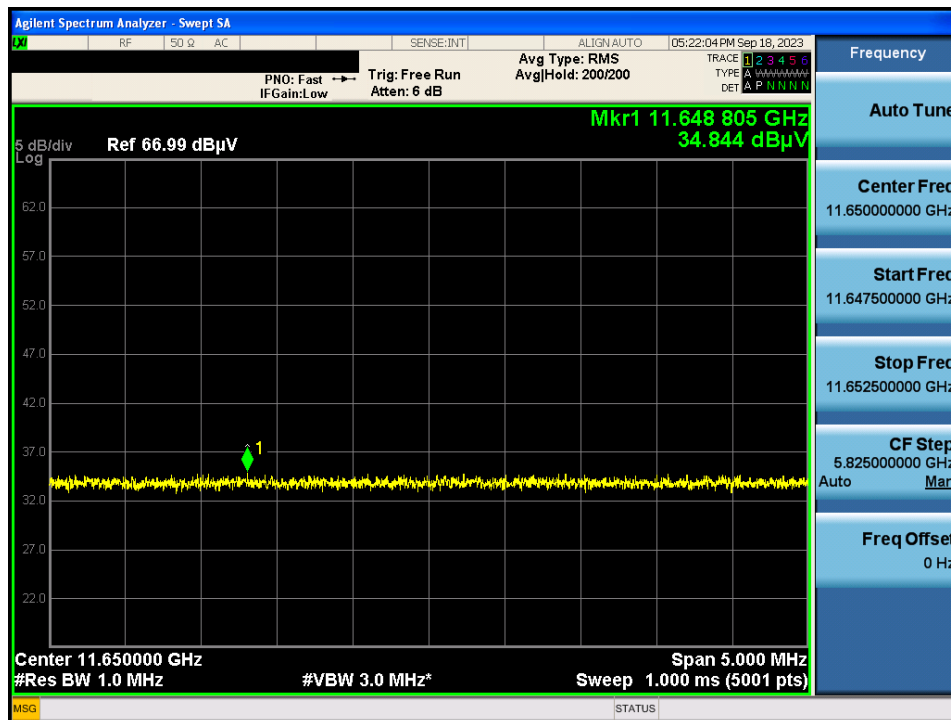
TM 1 & U-NII 3 & 5 825 & X axis & Hor

Detector Mode : PK

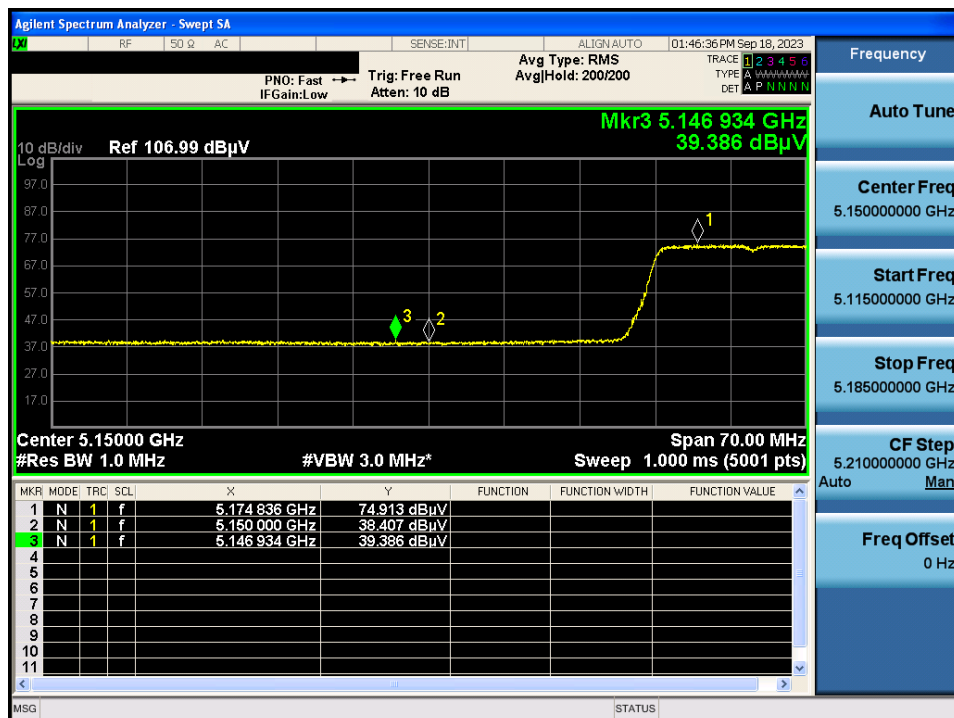


TM 1 & U-NII 3 & 5 825 & X axis & Hor

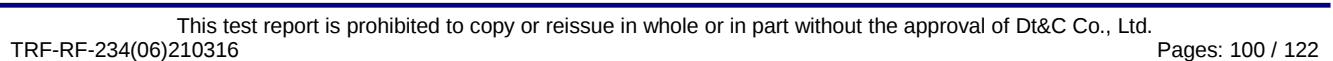
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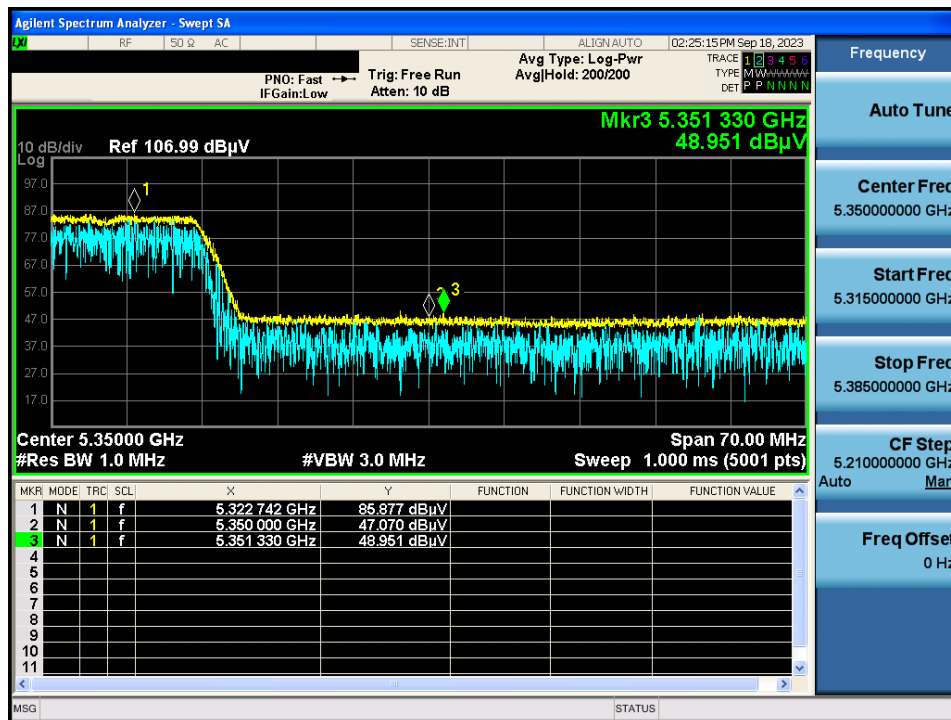
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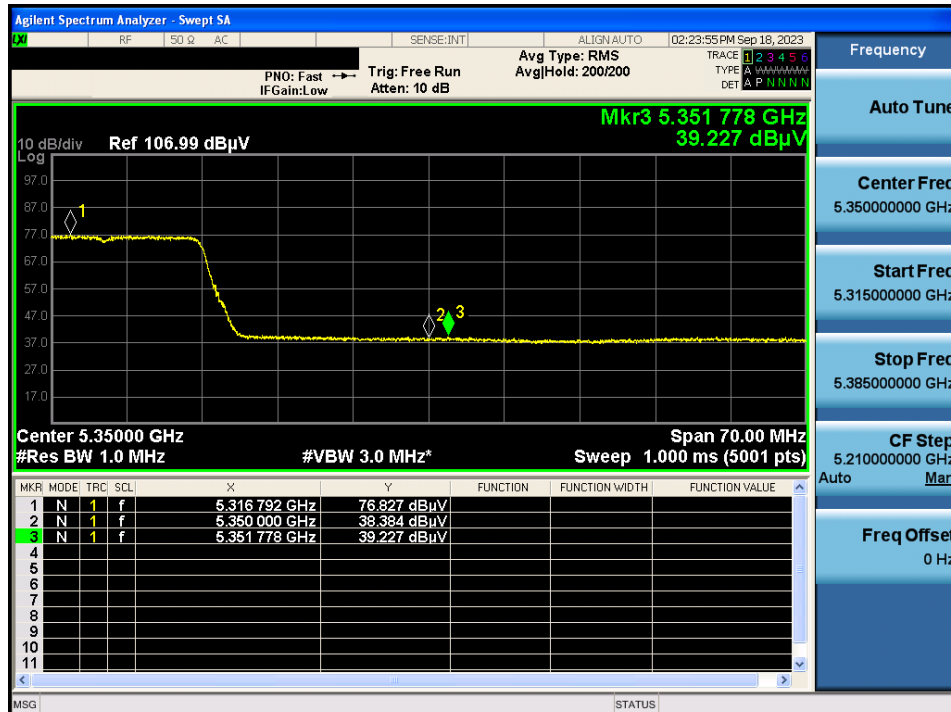
Detector Mode : PK



Detector Mode : PK

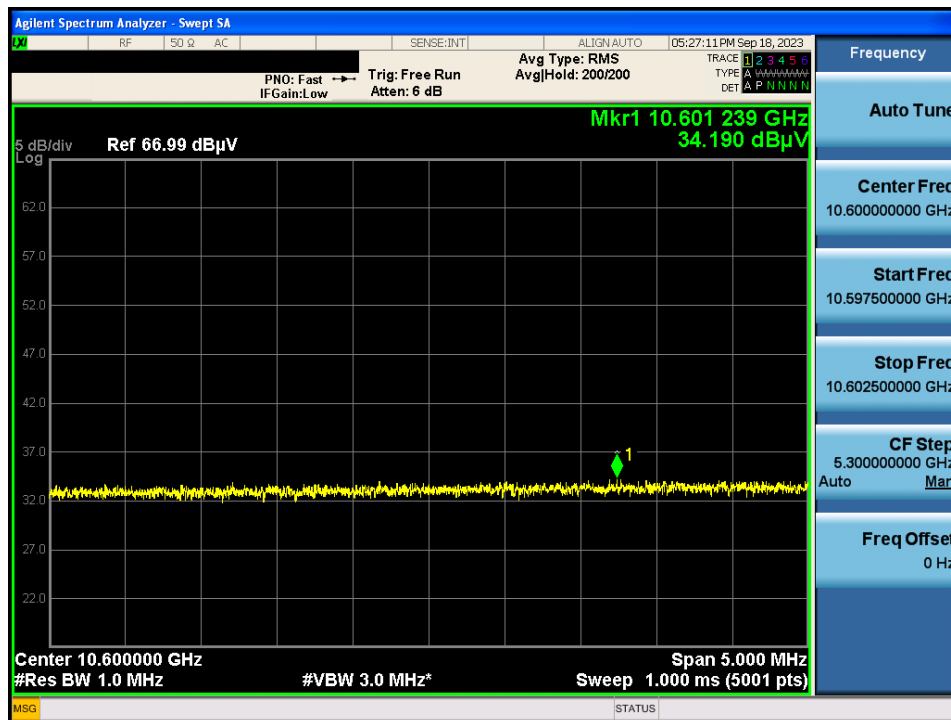


Detector Mode : AV



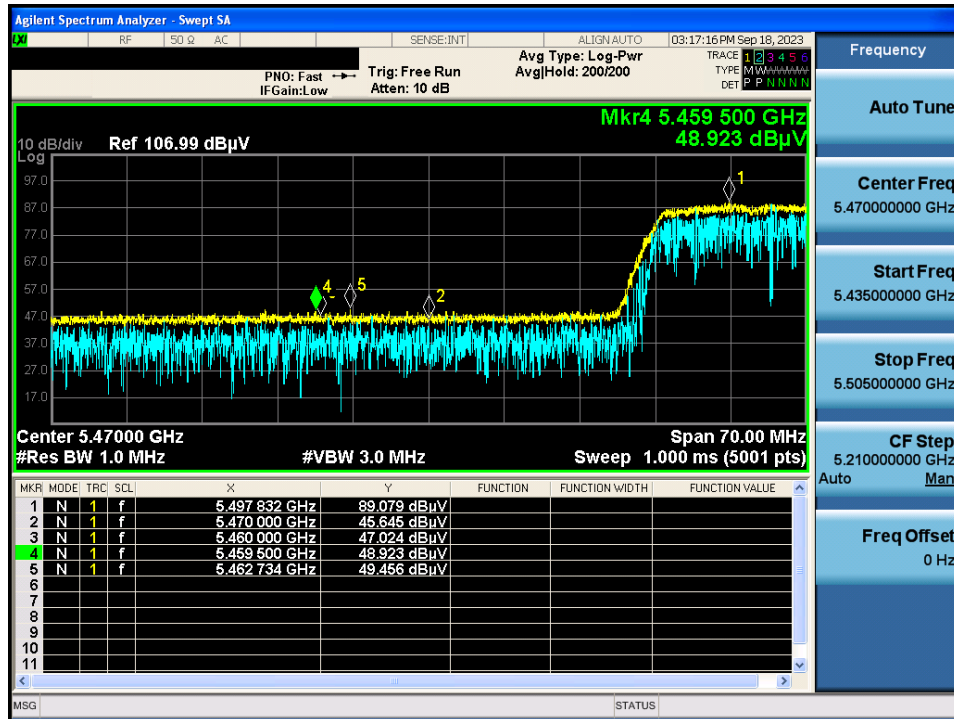
TM 2 & U-NII 2A & 5 300 & X axis & Hor

Detector Mode : AV



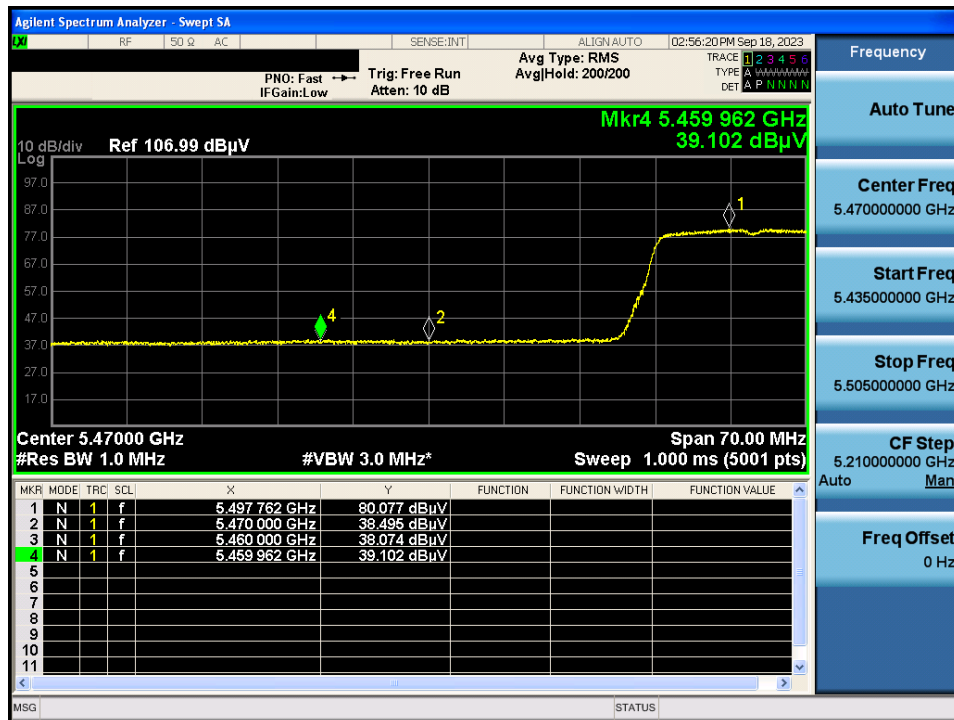
TM 2 & U-NII 2C & 5 500 & X axis & Hor

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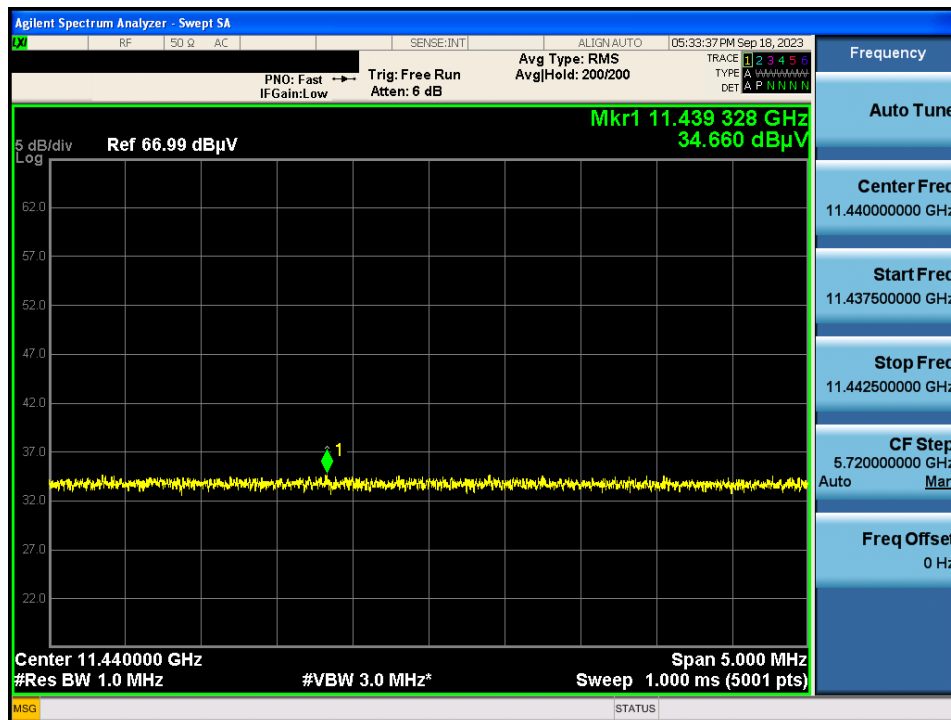
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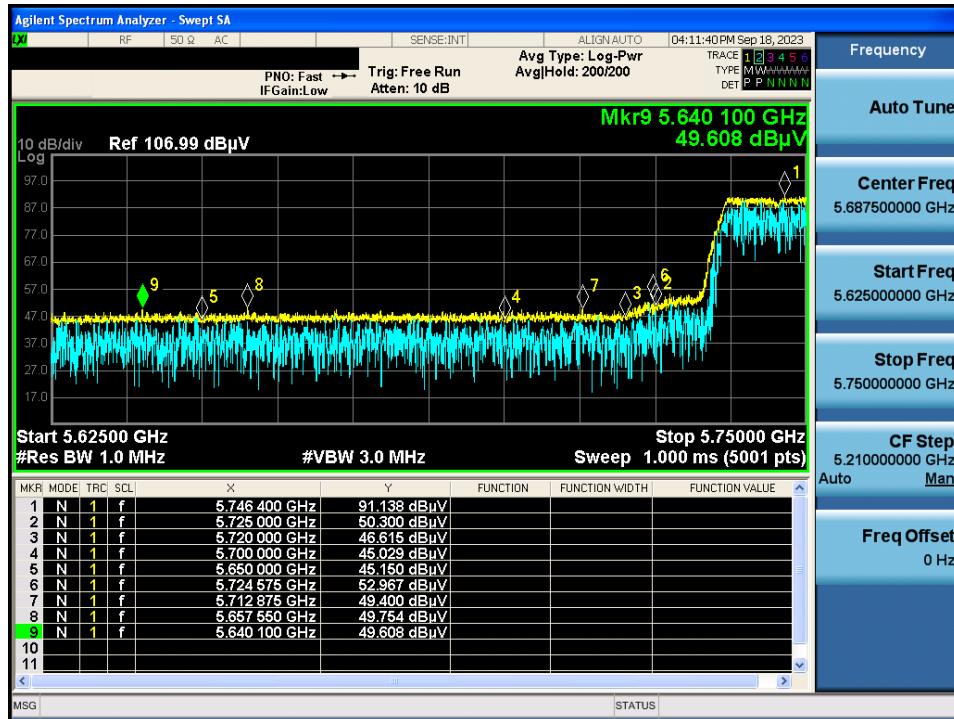
TM 2 & U-NII 2C & 5 720 & X axis & Hor

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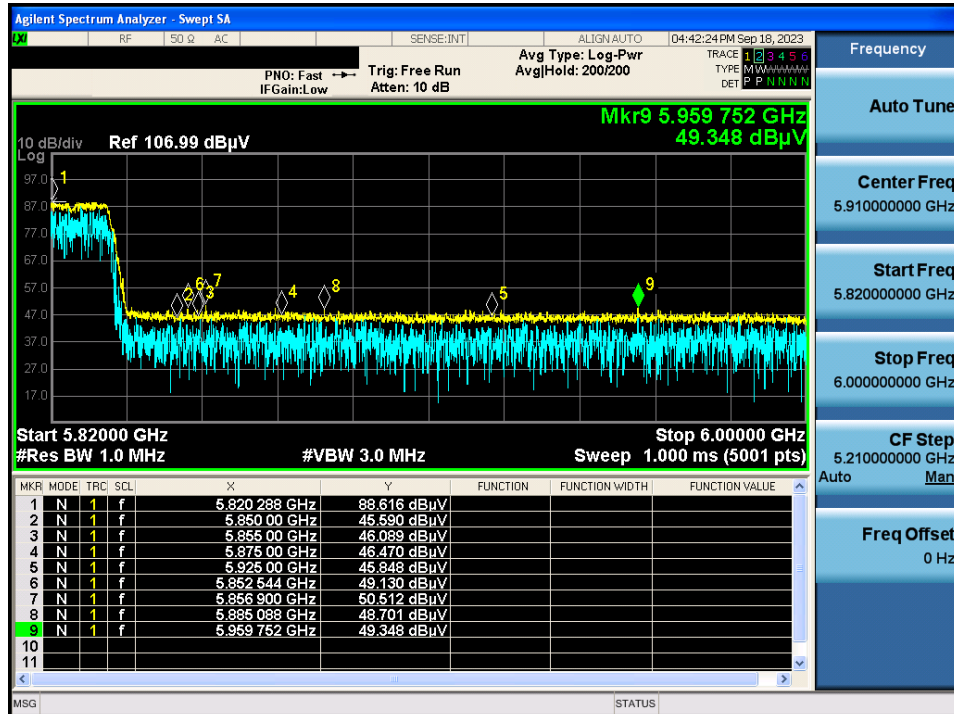
TM 2 & U-NII 3 & 5 745 & X axis & Hor

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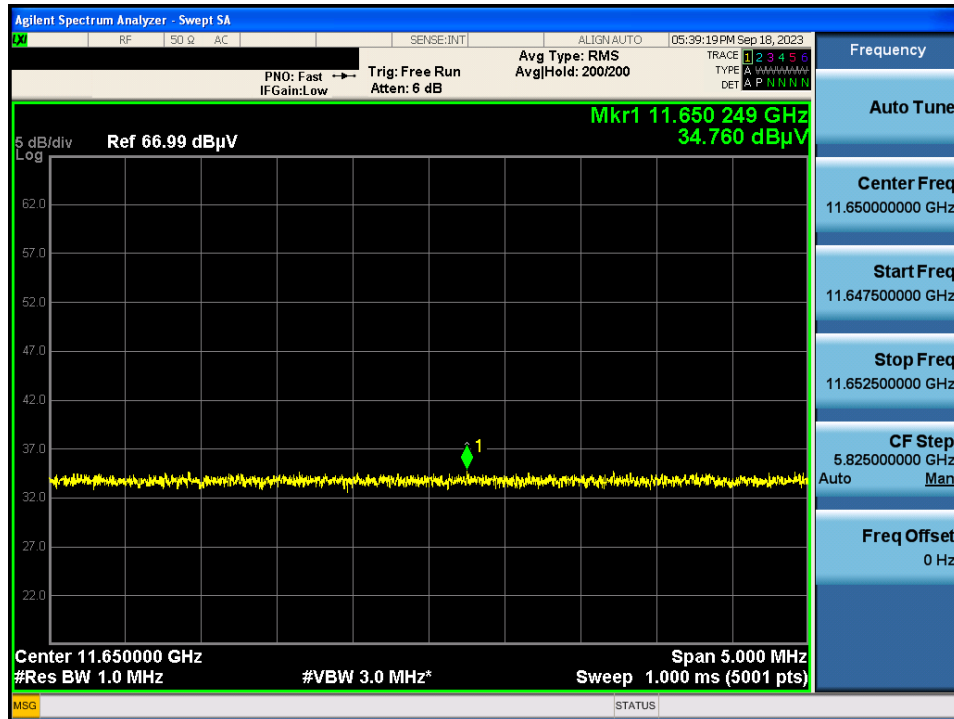
TM 2 & U-NII 3 & 5 825 & X axis & Hor

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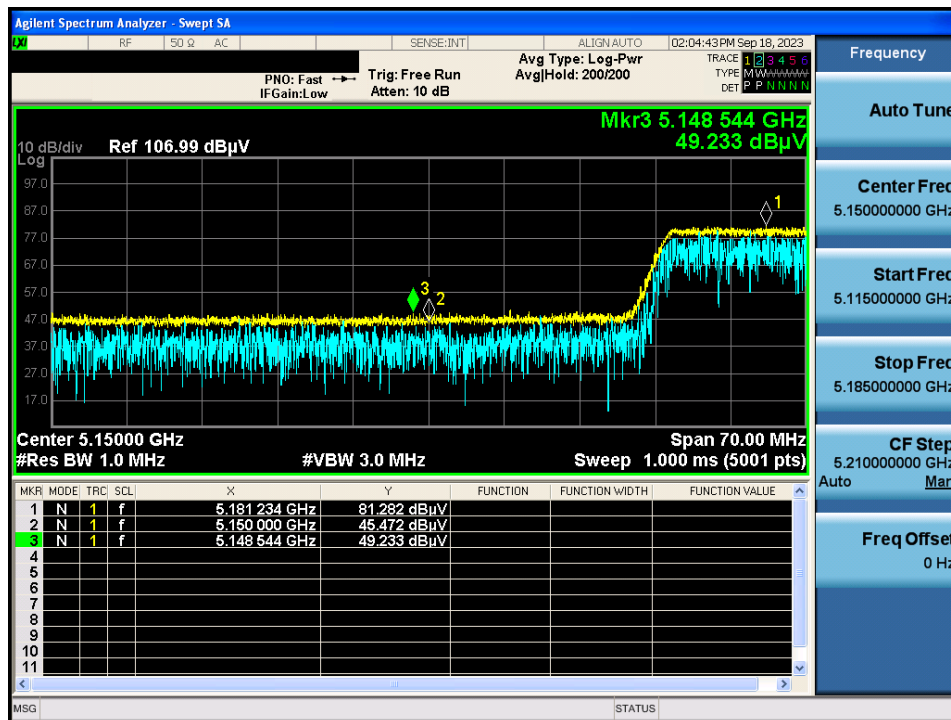
TM 2 & U-NII 3 & 5 825 & X axis & Hor

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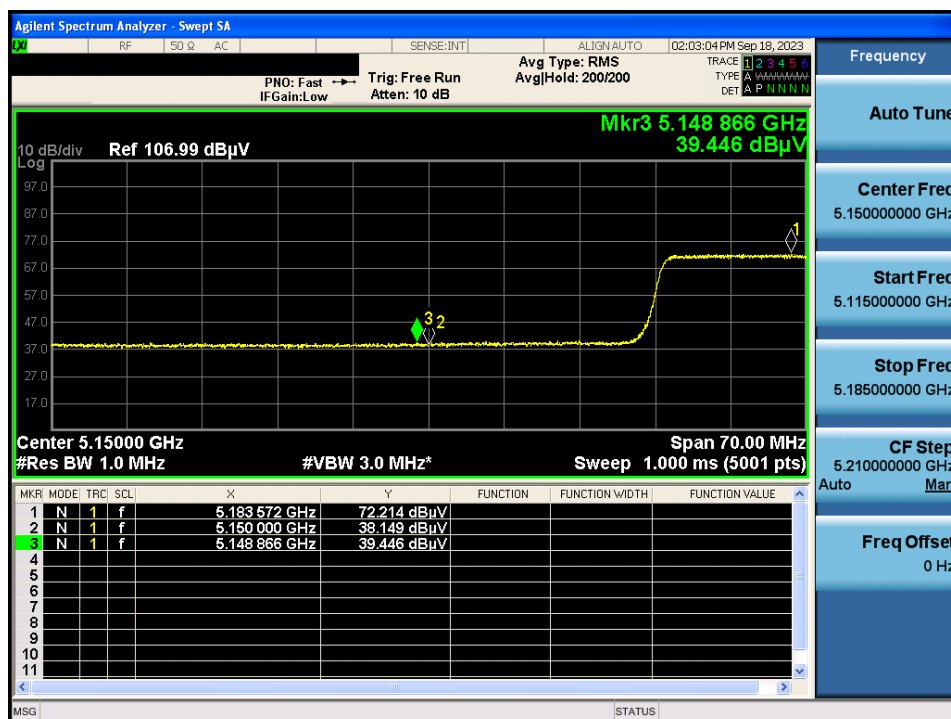
TM 3 & U-NII 1 & 5 190 & X axis & Hor

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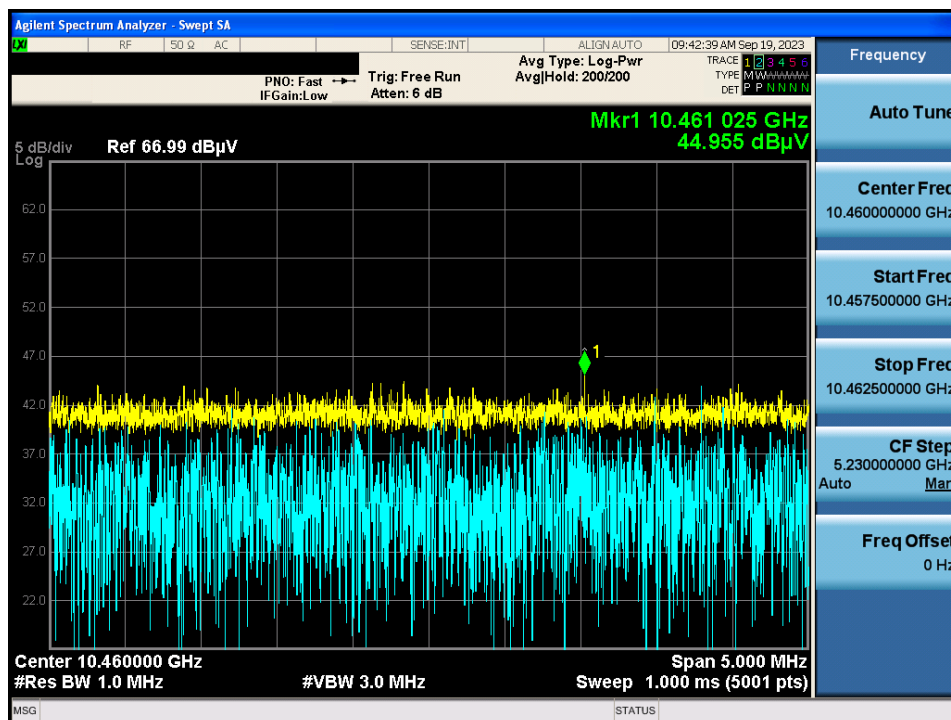


TM 3 & U-NII 1 & 5 190 & X axis & Hor

Detector Mode : AV



Detector Mode : PK

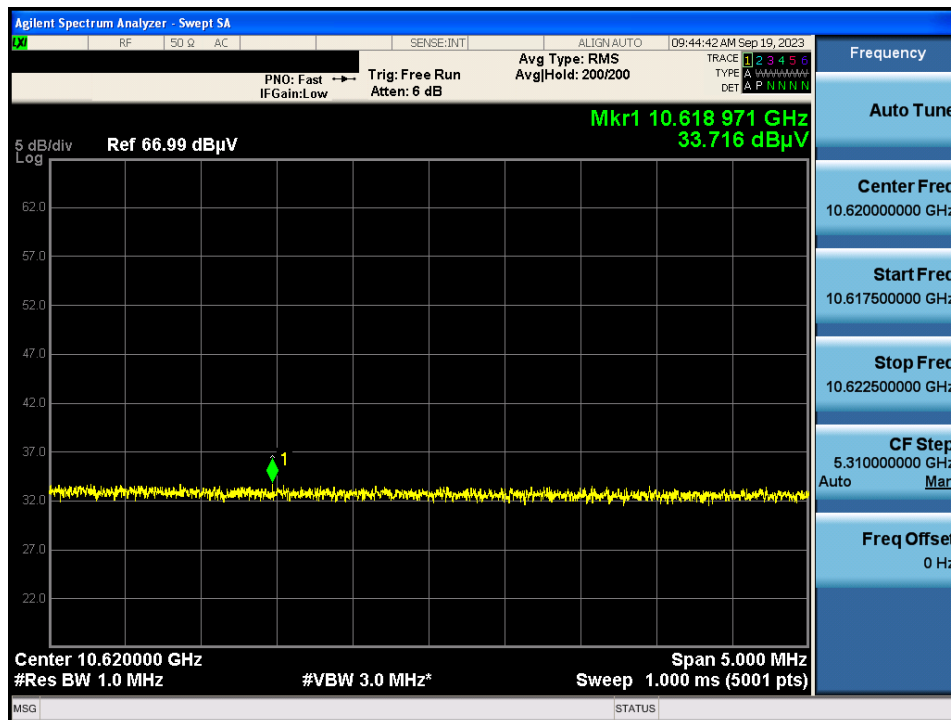


Detector Mode : PK



TM 3 & U-NII 2A & 5 310 & X axis & Hor

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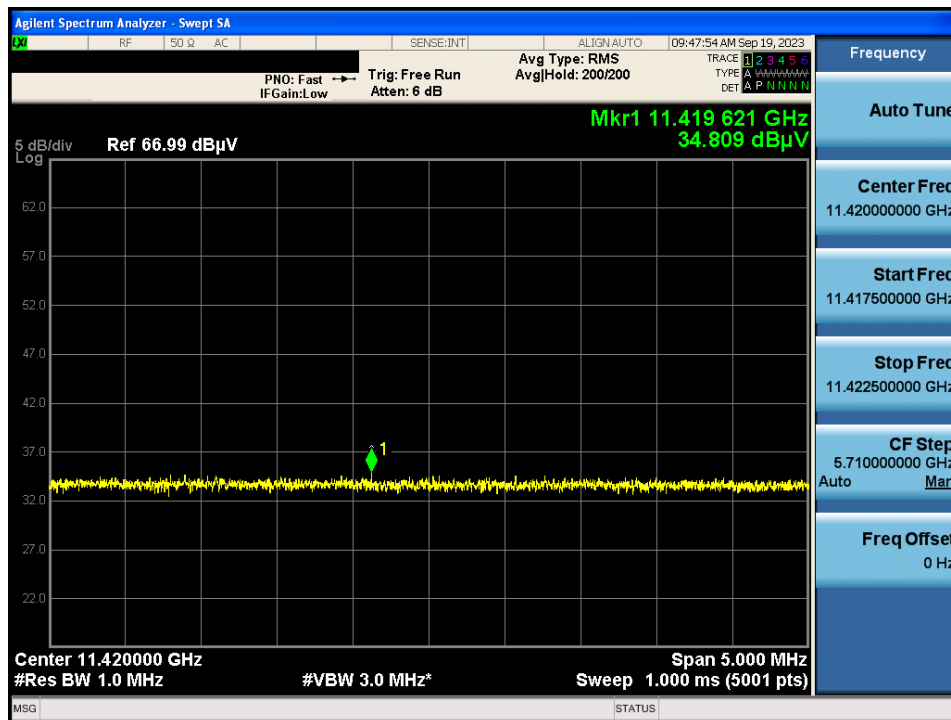


Detector Mode : PK



TM 3 & U-NII 2C & 5 710 & X axis & Hor

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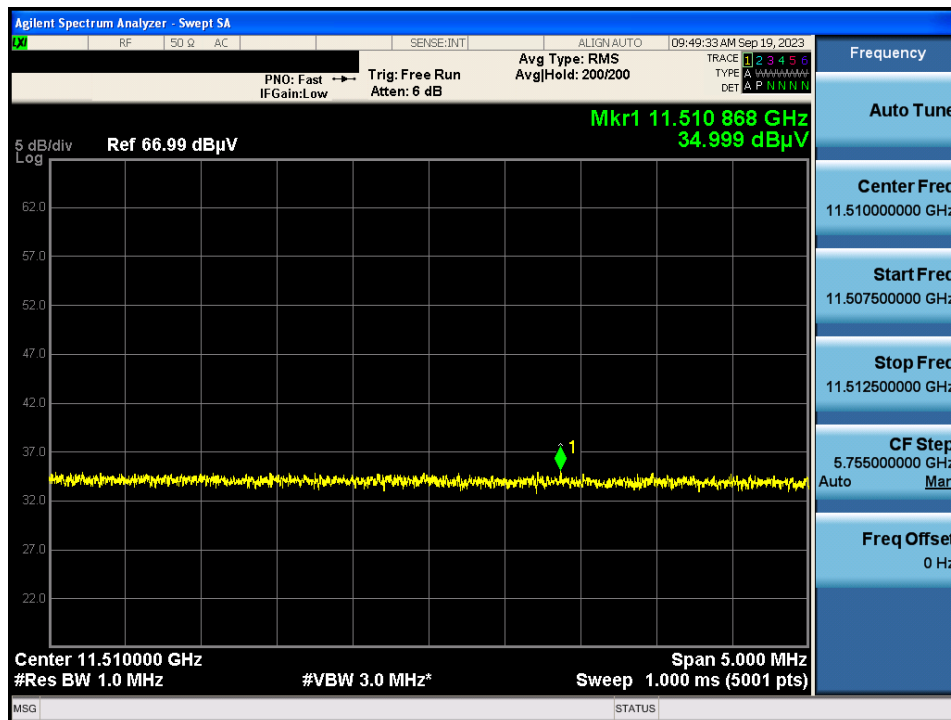


Detector Mode : PK



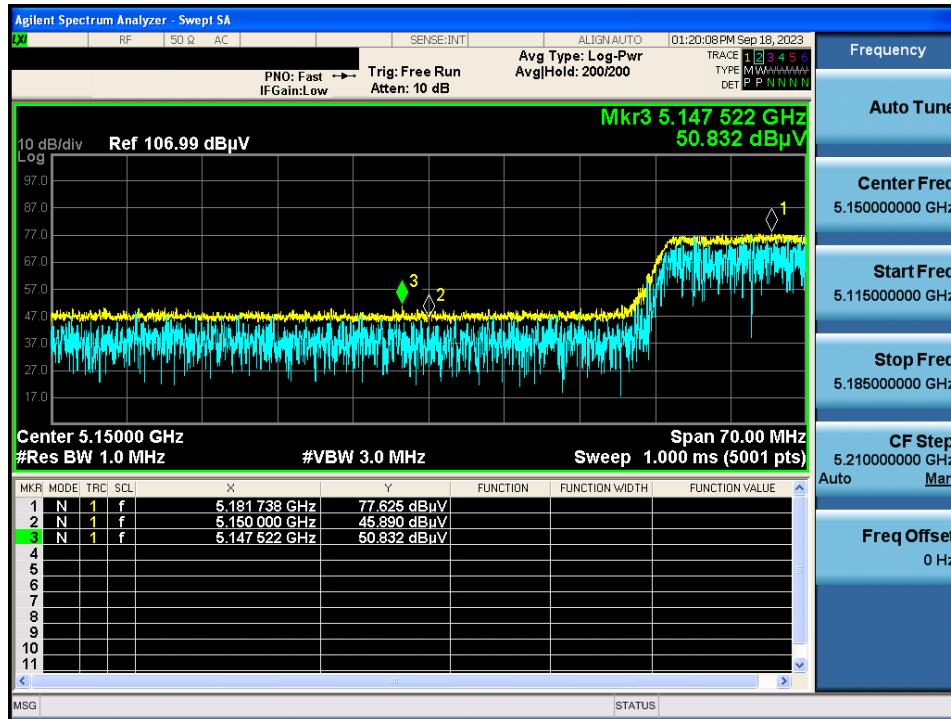
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Detector Mode : AV



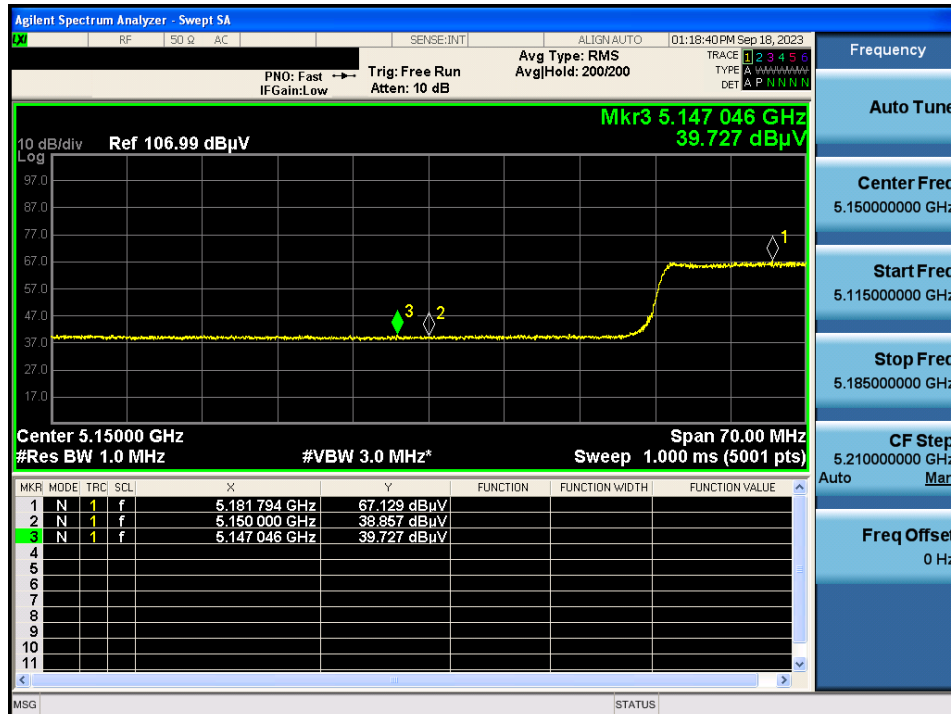
TM 4 & U-NII 1 & 5 210 & X axis & Hor

Detector Mode : PK



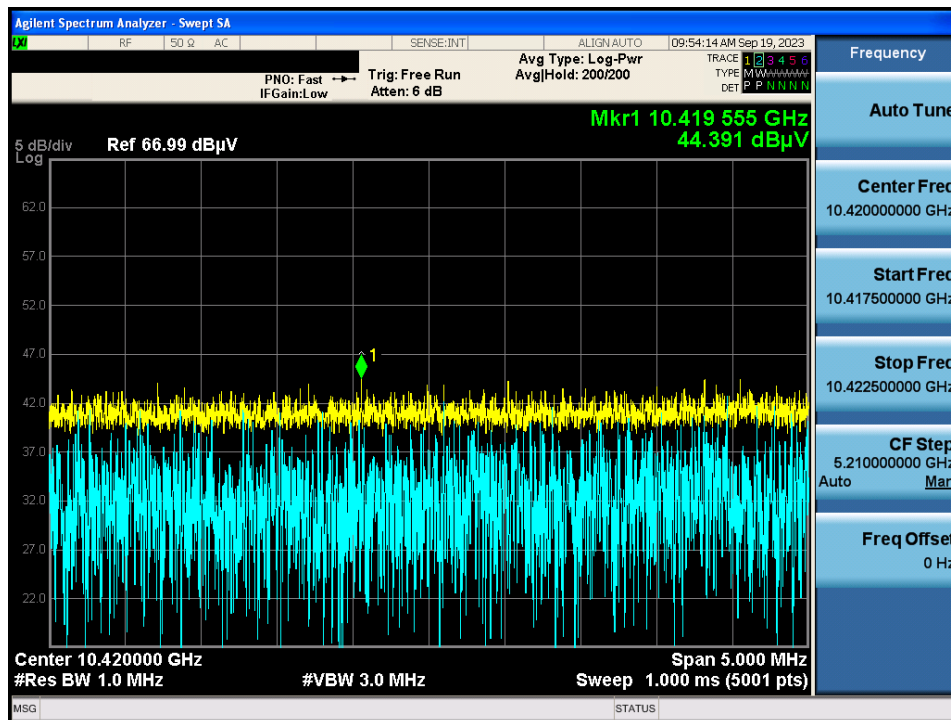
TM 4 & U-NII 1 & 5 210 & X axis & Hor

Detector Mode : AV



TM 4 & U-NII 1 & 5 210 & X axis & Hor

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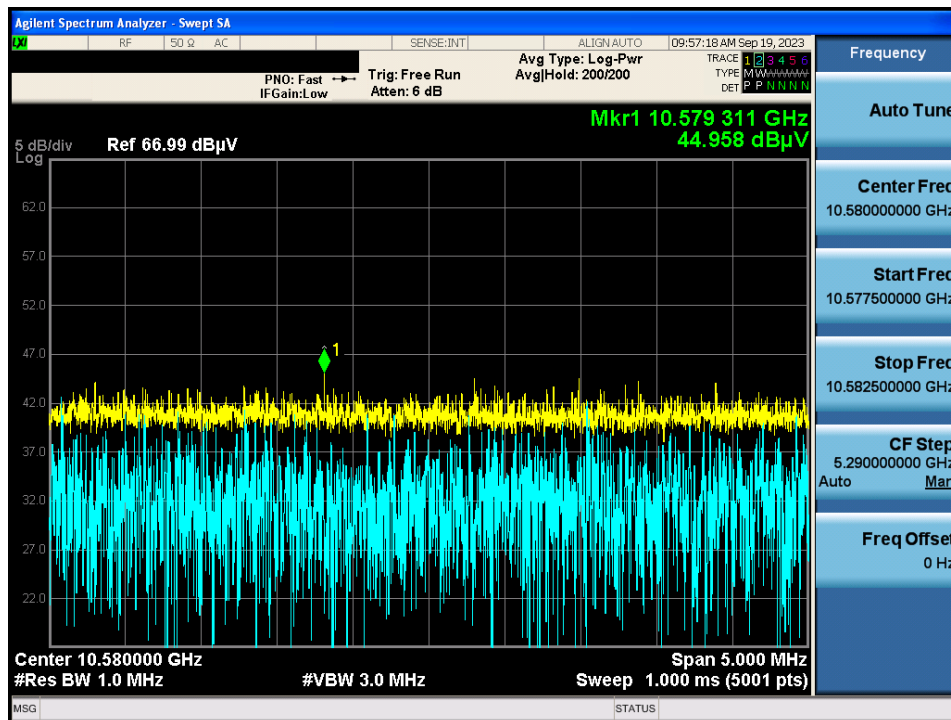


Detector Mode : PK



TM 4 & U-NII 2A & 5 290 & X axis & Hor

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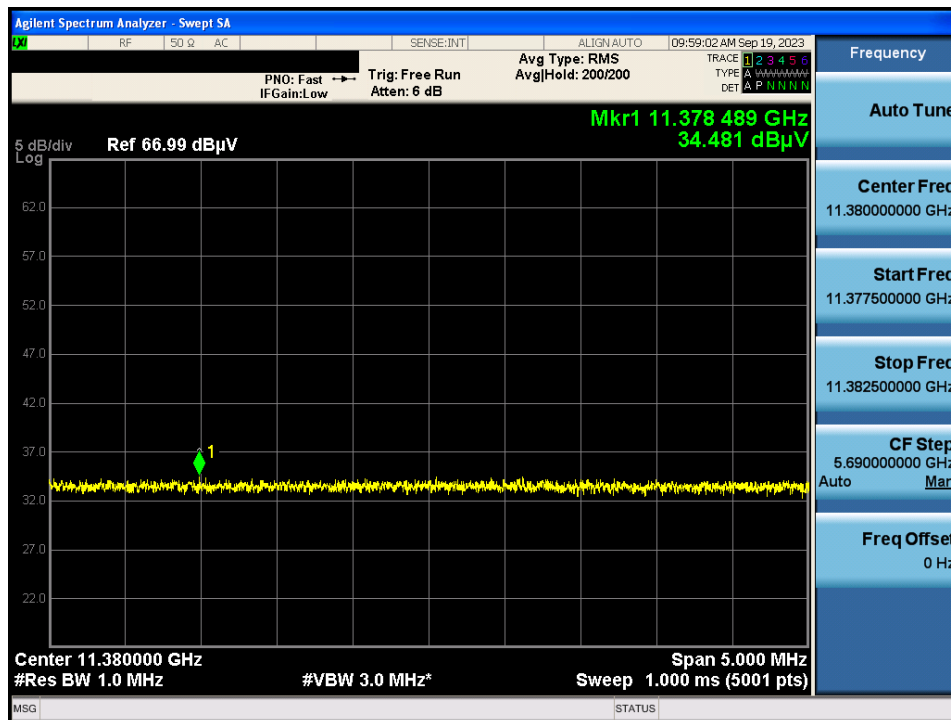


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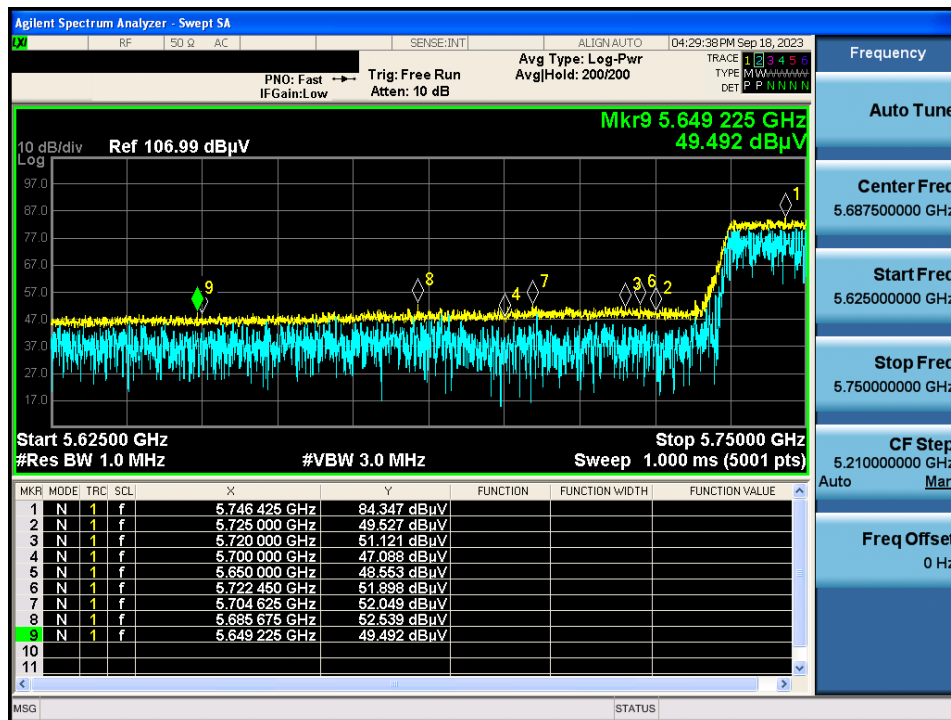
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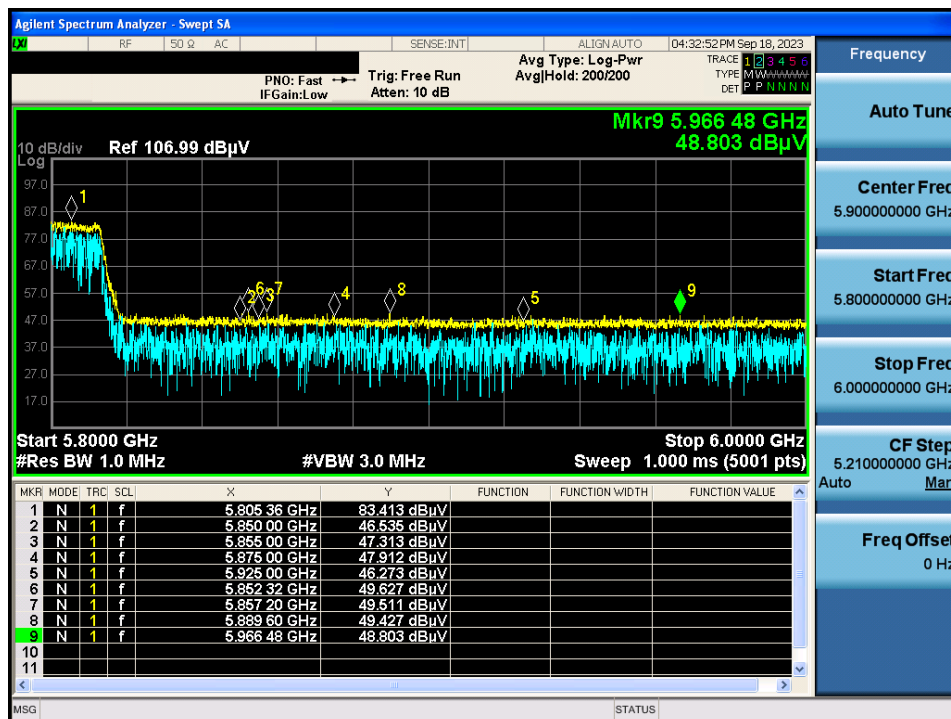
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Detector Mode : PK



TM 4 & U-NII 3 & 5 775 & X axis & Hor

Detector Mode : PK



TM 4 & U-NII 3 & 5 775 & X axis & Hor

Detector Mode : AV

