

APPENDIX II

Duty Cycle Information

■ Test Procedure

Duty Cycle [$X = \text{On Time} / (\text{On} + \text{Off time})$] 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.

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

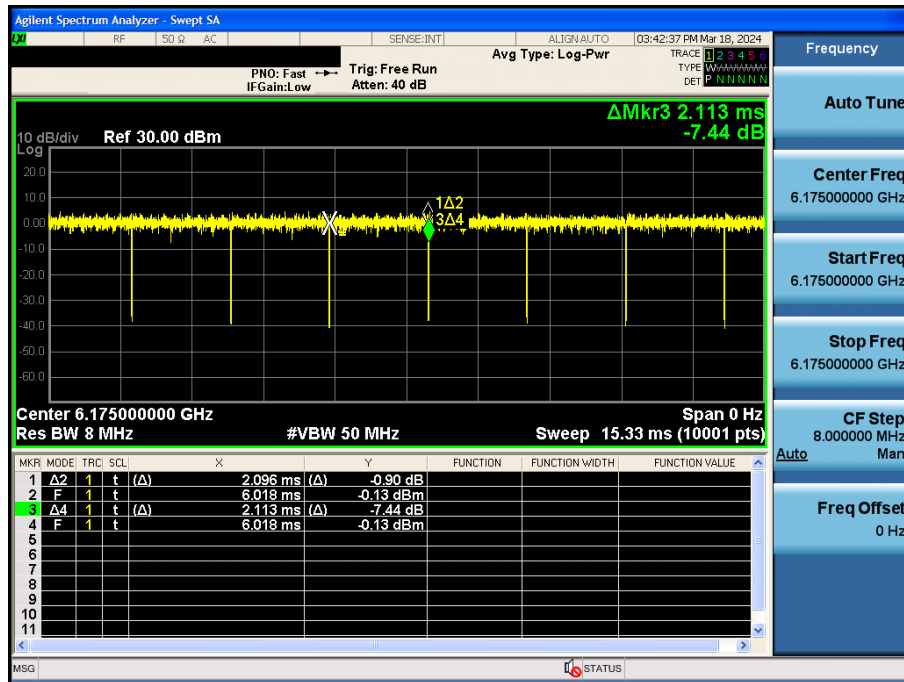
Duty Cycle Correction factor

Test Mode	Tone	Date rate	Frequency (MHz)	$T_{\text{on}}(\text{ms})$	$T_{\text{on+off}}(\text{ms})$	$x = T_{\text{on}} / (T_{\text{on+off}})$	DCCF = $10 \log(1/x)$ (dB)	1/T (kHz)
802.11a	-	6 Mbps	6175	2.10	2.11	0.995	0.02	0.48
802.11ax(HE20)	26T	MCS 0	6175	5.09	5.10	0.998	0.01	0.20
802.11ax(HE20)	52T	MCS 0	6175	5.07	5.09	0.996	0.02	0.20
802.11ax(HE20)	106T	MCS 0	6175	4.77	4.78	0.998	0.01	0.21
802.11ax(HE20)	242T	MCS 0	6175	4.34	4.36	0.995	0.02	0.23
802.11ax(HE20)	SU	MCS 0	6175	5.34	5.36	0.996	0.02	0.19
802.11ax(HE40)	26T	MCS 0	5965	5.09	5.11	0.996	0.02	0.20
802.11ax(HE40)	52T	MCS 0	5965	5.08	5.09	0.998	0.01	0.20
802.11ax(HE40)	106T	MCS 0	5965	4.77	4.78	0.998	0.01	0.21
802.11ax(HE40)	242T	MCS 0	5965	4.35	4.37	0.995	0.02	0.23
802.11ax(HE40)	484T	MCS 0	5965	2.24	2.26	0.991	0.04	0.45
802.11ax(HE40)	SU	MCS 0	5965	4.10	4.12	0.995	0.02	0.24
802.11ax(HE80)	26T	MCS 0	5985	5.06	5.08	0.996	0.02	0.20
802.11ax(HE80)	52T	MCS 0	5985	5.07	5.09	0.996	0.02	0.20
802.11ax(HE80)	106T	MCS 0	5985	4.77	4.79	0.996	0.02	0.21
802.11ax(HE80)	242T	MCS 0	5985	4.35	4.37	0.995	0.02	0.23
802.11ax(HE80)	484T	MCS 0	5985	2.21	2.23	0.991	0.04	0.45
802.11ax(HE80)	996T	MCS 0	5985	1.14	1.15	0.991	0.04	0.88
802.11ax(HE80)	SU	MCS 0	5985	2.22	2.23	0.996	0.02	0.45
802.11ax(HE160)	26T	MCS 0	6025	5.09	5.10	0.998	0.01	0.20
802.11ax(HE160)	52T	MCS 0	6025	5.08	5.09	0.998	0.01	0.20
802.11ax(HE160)	106T	MCS 0	6025	4.77	4.81	0.992	0.03	0.21
802.11ax(HE160)	242T	MCS 0	6025	4.34	4.36	0.995	0.02	0.23
802.11ax(HE160)	484T	MCS 0	6025	2.20	2.22	0.991	0.04	0.45
802.11ax(HE160)	996T	MCS 0	6025	1.10	1.11	0.991	0.04	0.91
802.11ax(HE160)	2x996T	MCS 0	6025	0.58	0.60	0.967	0.15	1.72
802.11ax(HE160)	SU	MCS 0	6025	2.15	2.17	0.991	0.04	0.47

Note1: Where, T = Transmission duration / x = Duty cycle

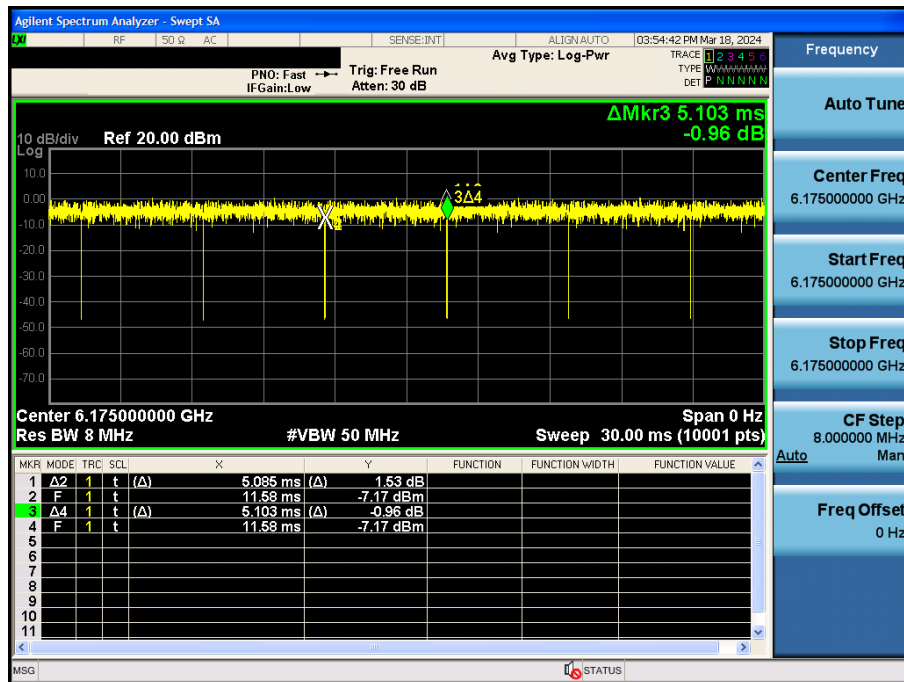
Duty Cycle

Test Mode: 802.11a & 6 Mbps & 6175 MHz



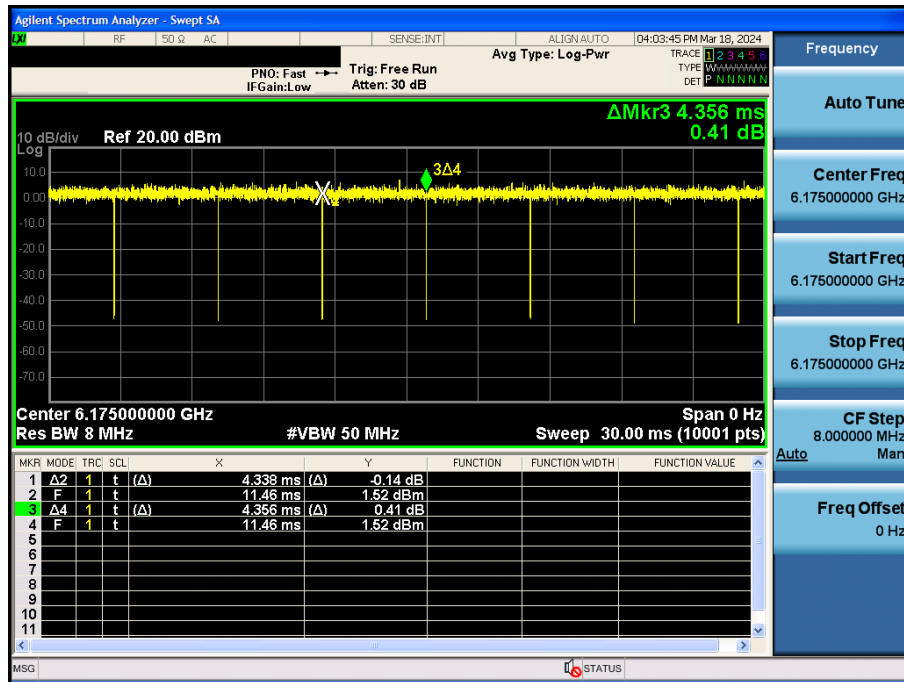
Duty Cycle

Test Mode: 802.11ax(HE20) & 6175 MHz & 26T



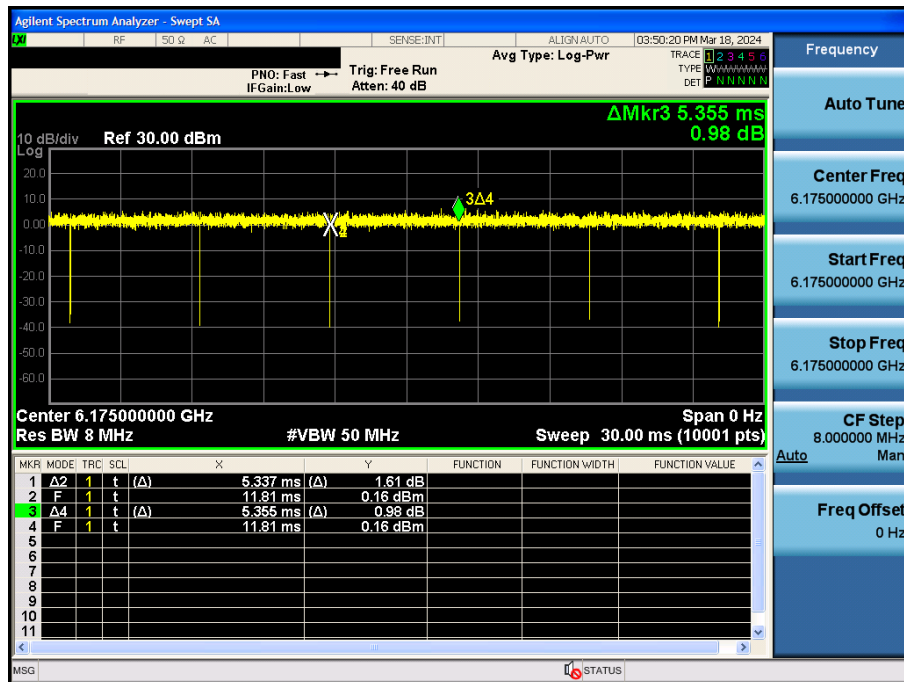
Duty Cycle

Test Mode: 802.11ax(HE20) & 6175 MHz & 242T



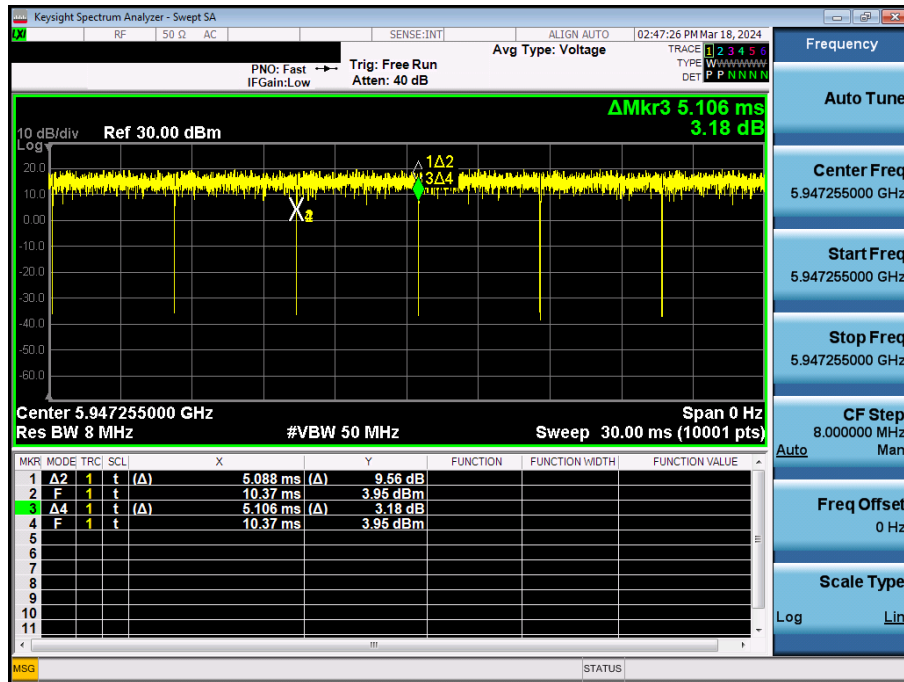
Duty Cycle

Test Mode: 802.11ax(HE20) & 6175 MHz & SU



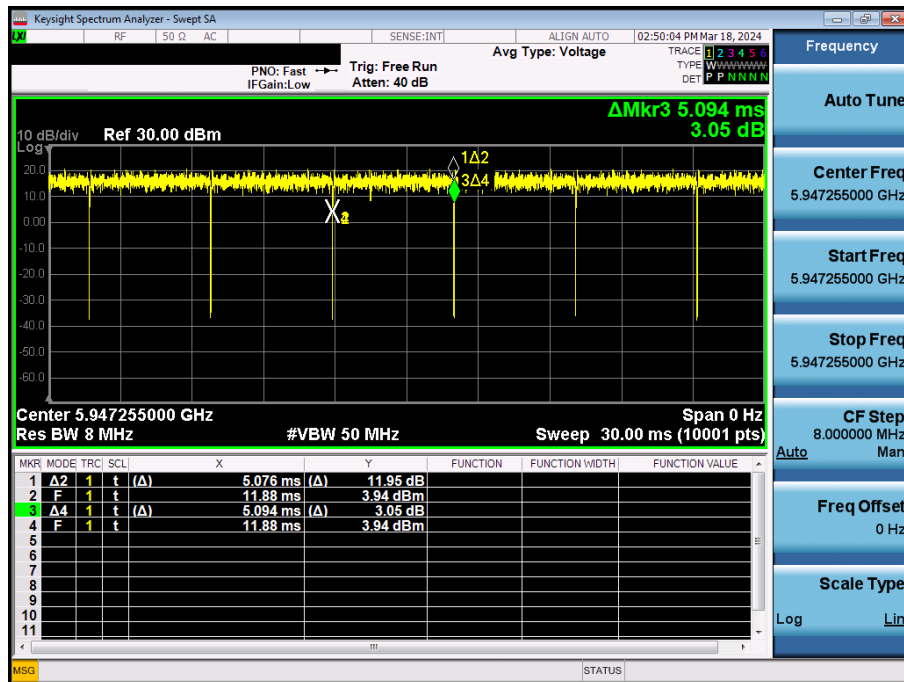
Duty Cycle

Test Mode: 802.11ax(HE40) & 5965 MHz & 26T



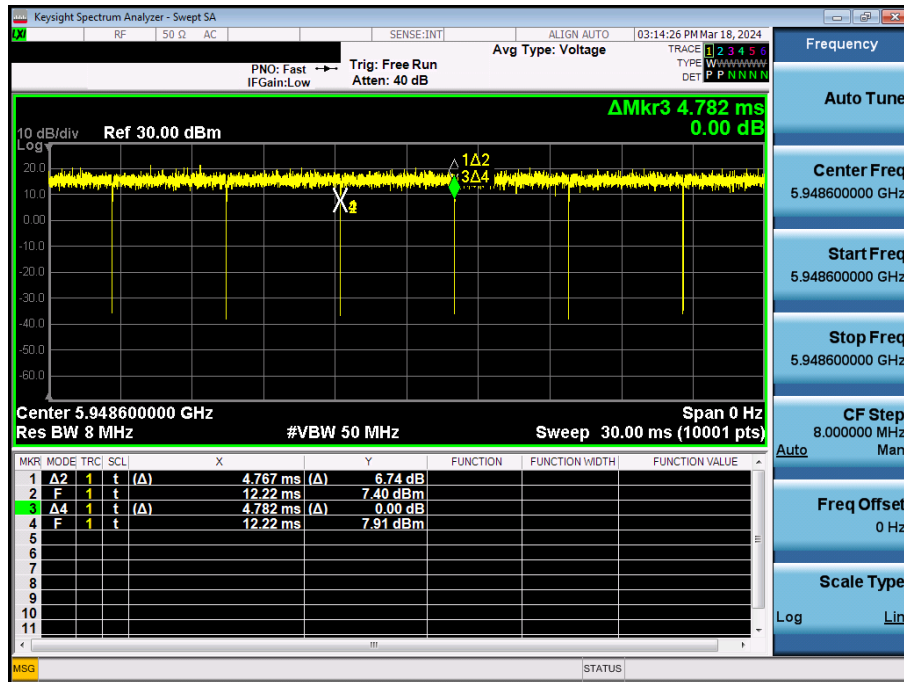
Duty Cycle

Test Mode: 802.11ax(HE40) & 5965 MHz & 52T



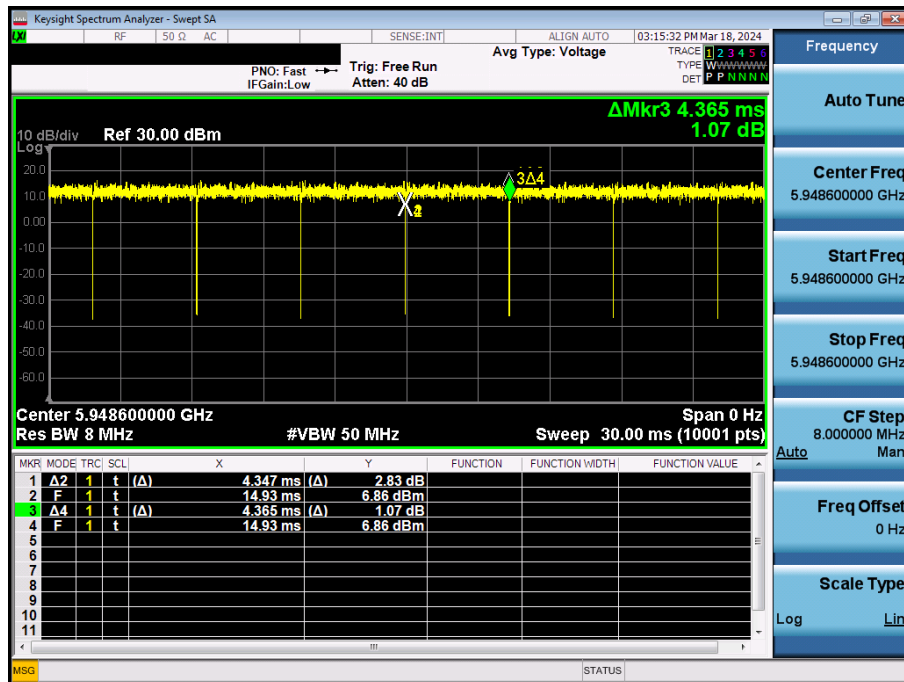
Duty Cycle

Test Mode: 802.11ax(HE40) & 5965 MHz & 106T



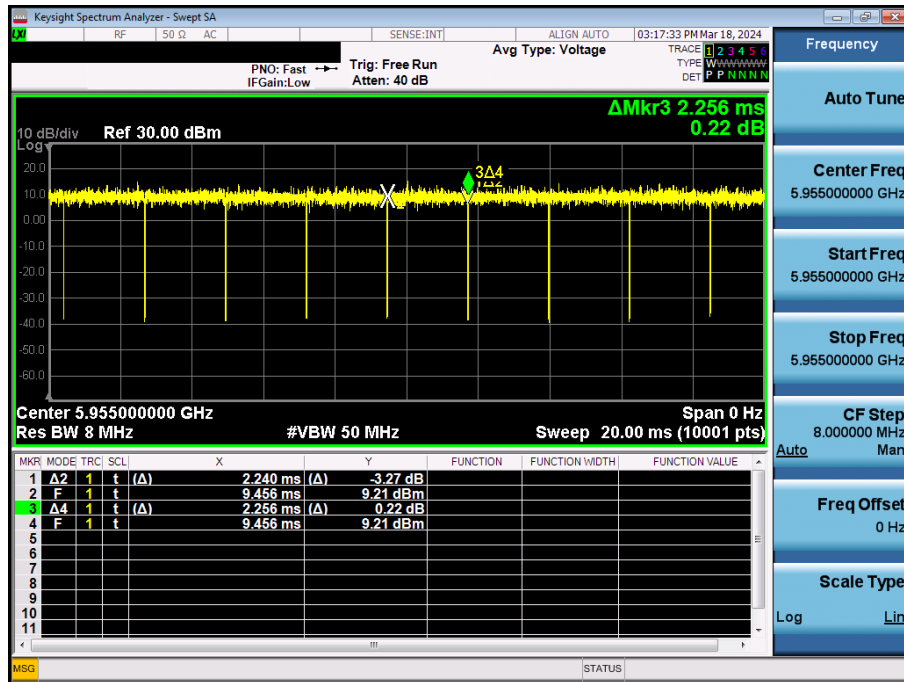
Duty Cycle

Test Mode: 802.11ax(HE40) & 5965 MHz & 242T



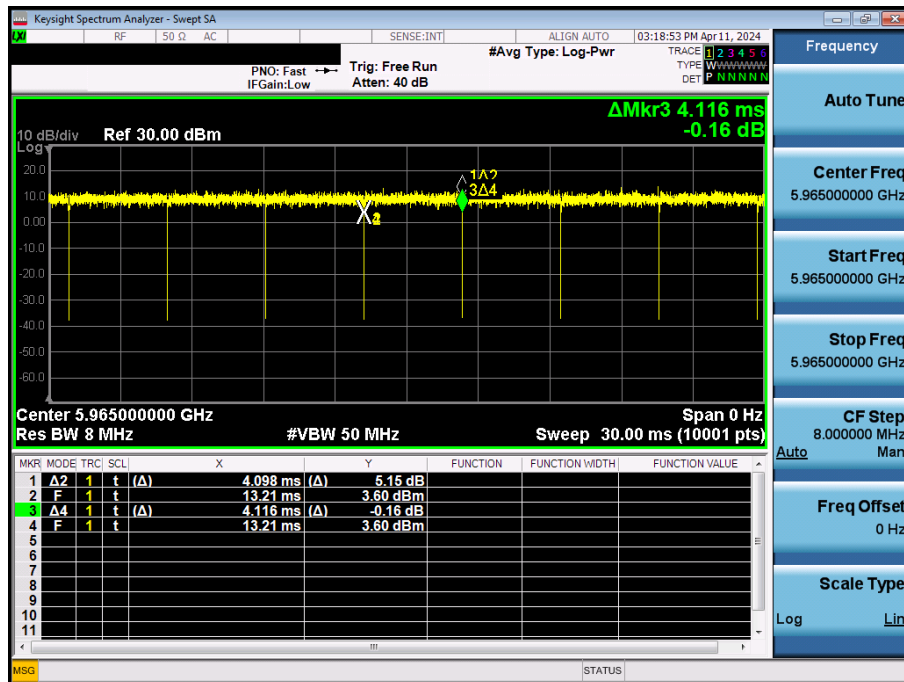
Duty Cycle

Test Mode: 802.11ax(HE40) & 5965 MHz & 484T



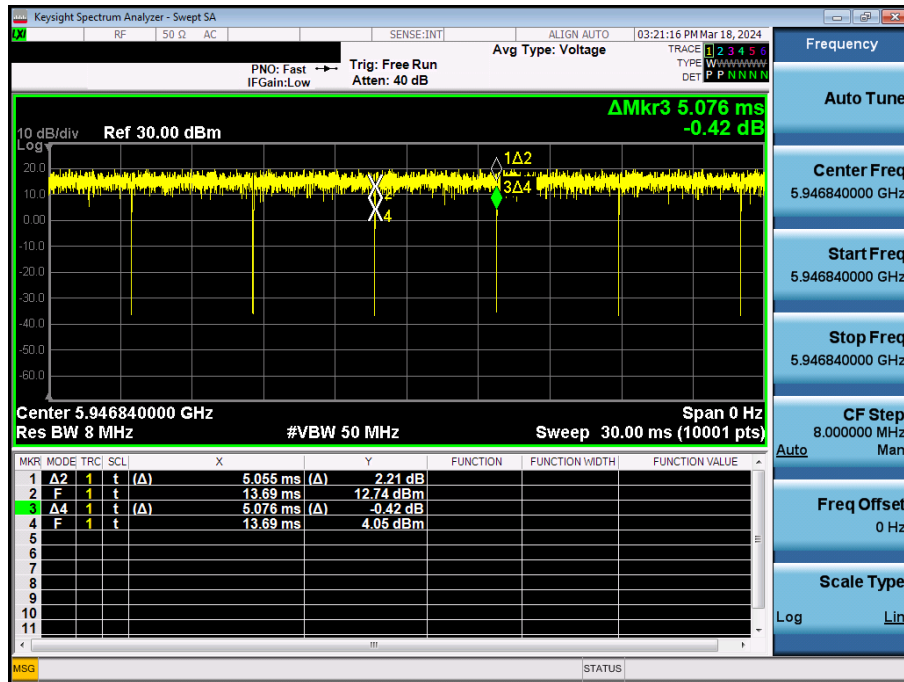
Duty Cycle

Test Mode: 802.11ax(HE40) & 5965 MHz & SU



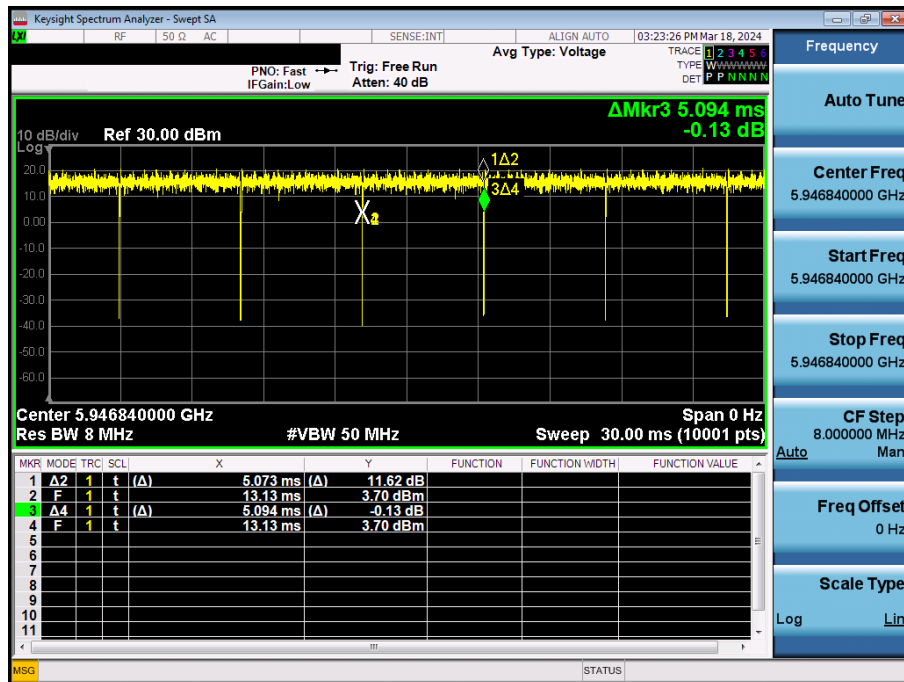
Duty Cycle

Test Mode: 802.11ax(HE80) & 5985 MHz & 26T



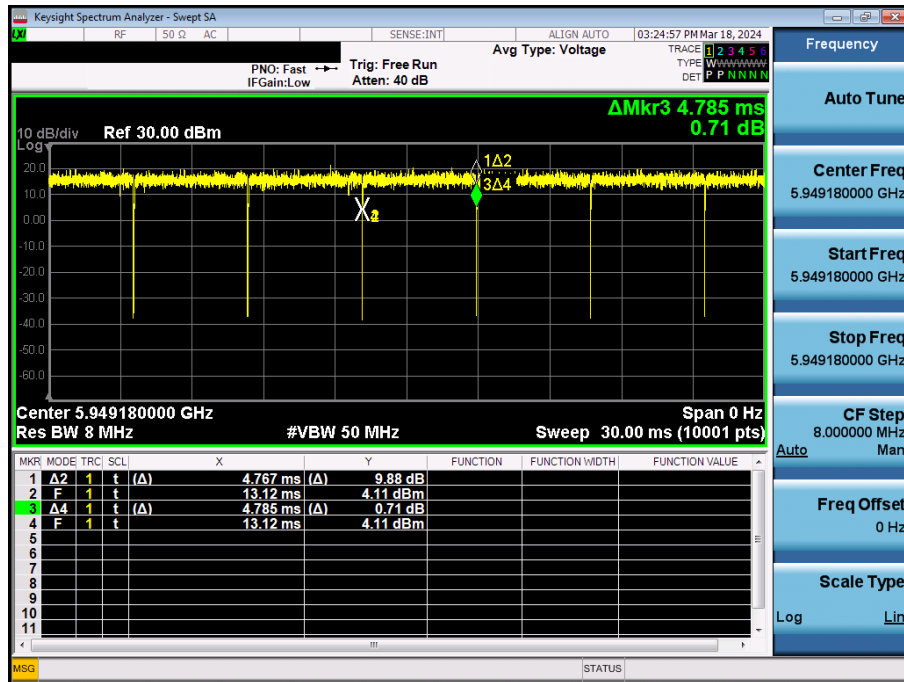
Duty Cycle

Test Mode: 802.11ax(HE80) & 5985 MHz & 52T



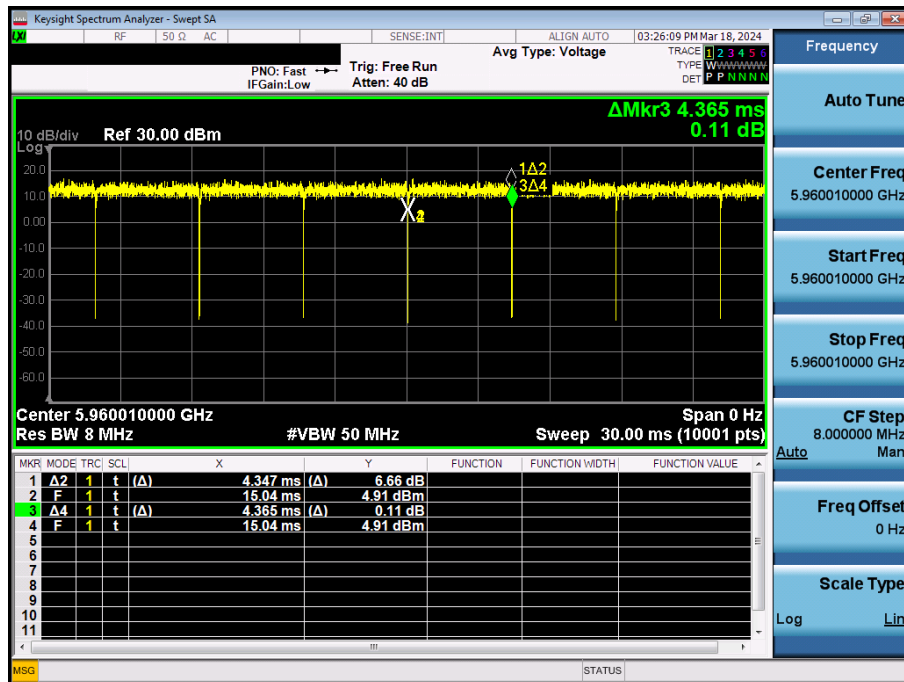
Duty Cycle

Test Mode: 802.11ax(HE80) & 5985 MHz & 106T



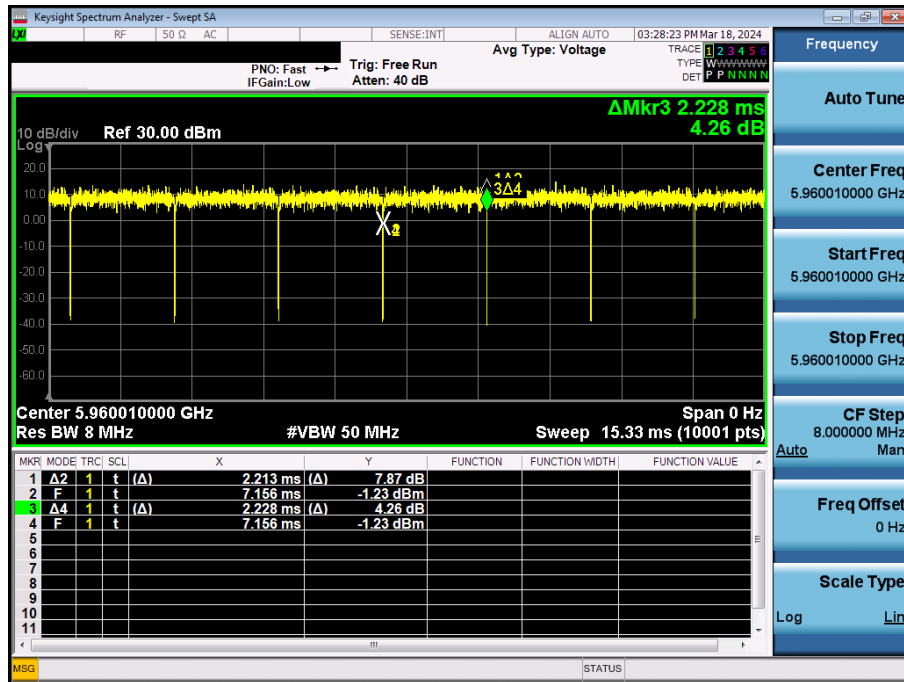
Duty Cycle

Test Mode: 802.11ax(HE80) & 5985 MHz & 242T



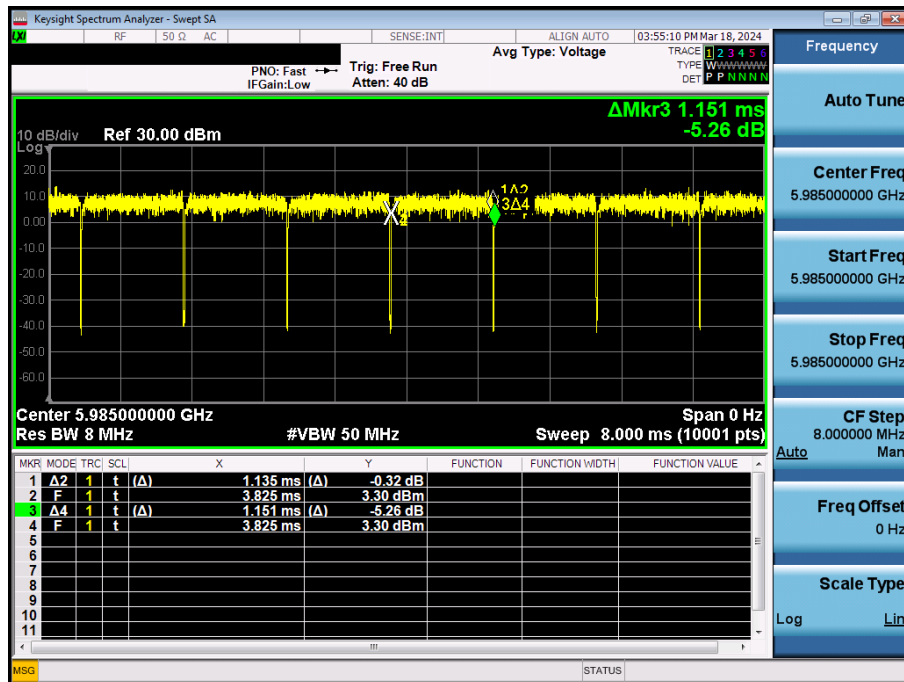
Duty Cycle

Test Mode: 802.11ax(HE80) & 5985 MHz & 484T



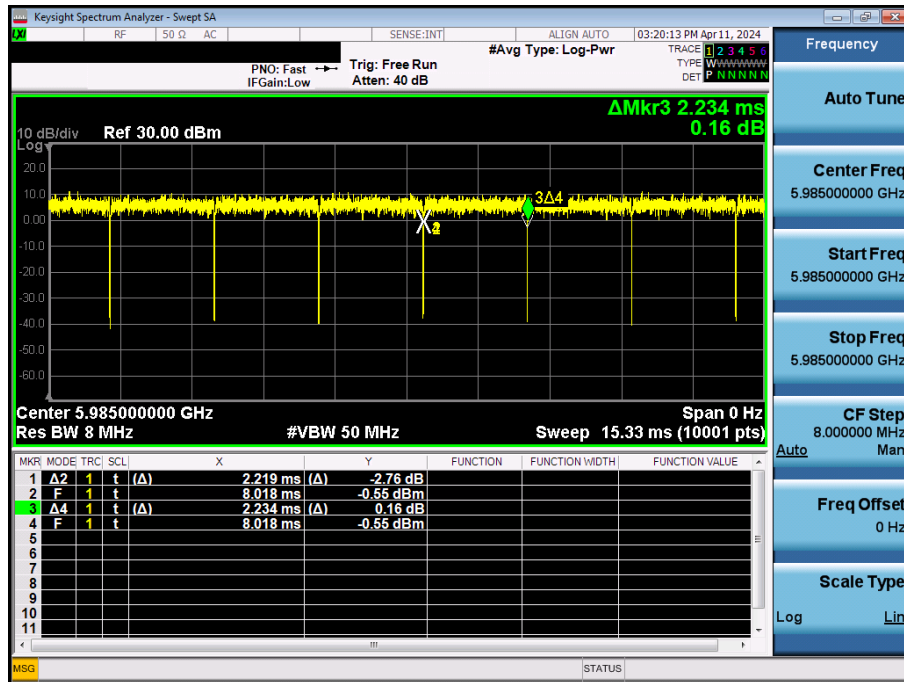
Duty Cycle

Test Mode: 802.11ax(HE80) & 5985 MHz & 996T



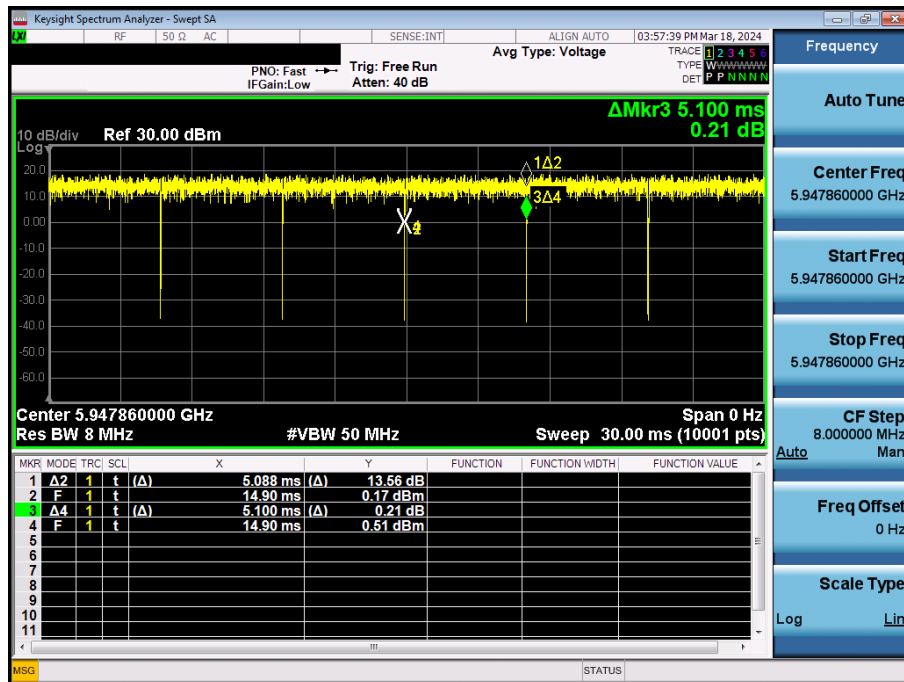
Duty Cycle

Test Mode: 802.11ax(HE80) & 5985 MHz & SU



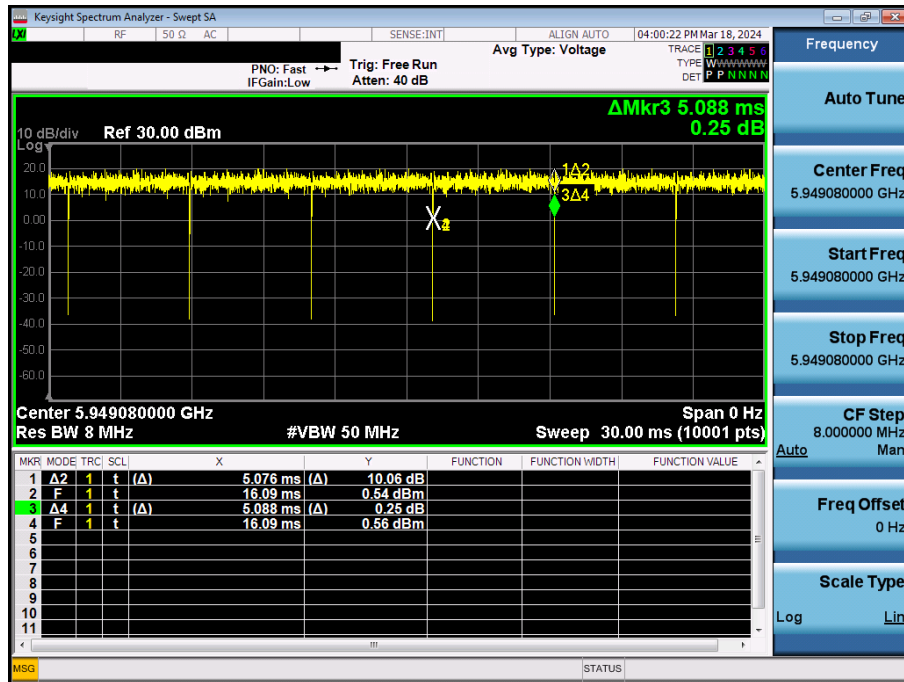
Duty Cycle

Test Mode: 802.11ax(HE160) & 6025 MHz & 26T



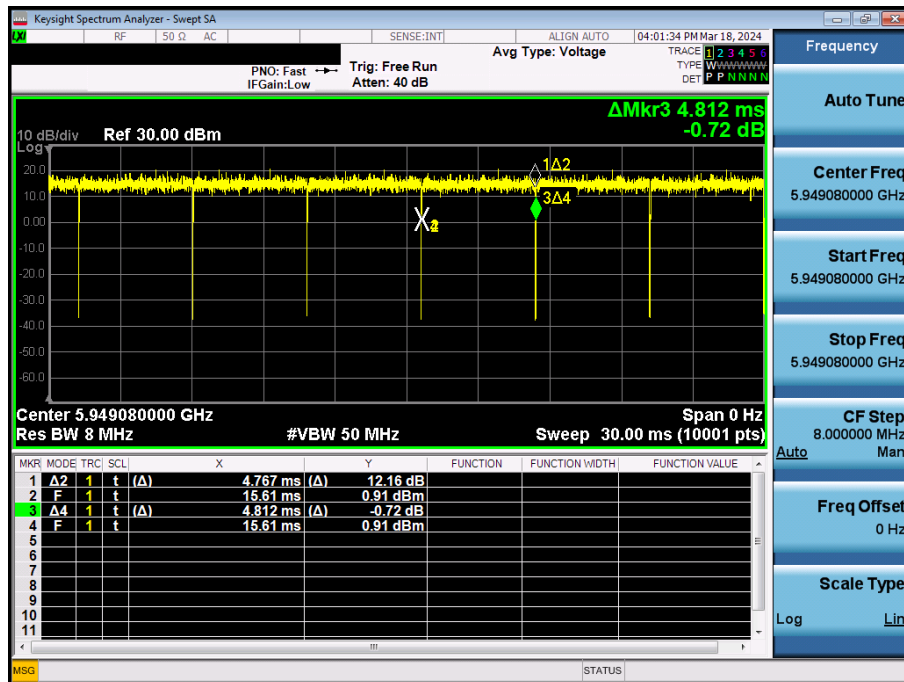
Duty Cycle

Test Mode: 802.11ax(HE160) & 6025 MHz & 52T



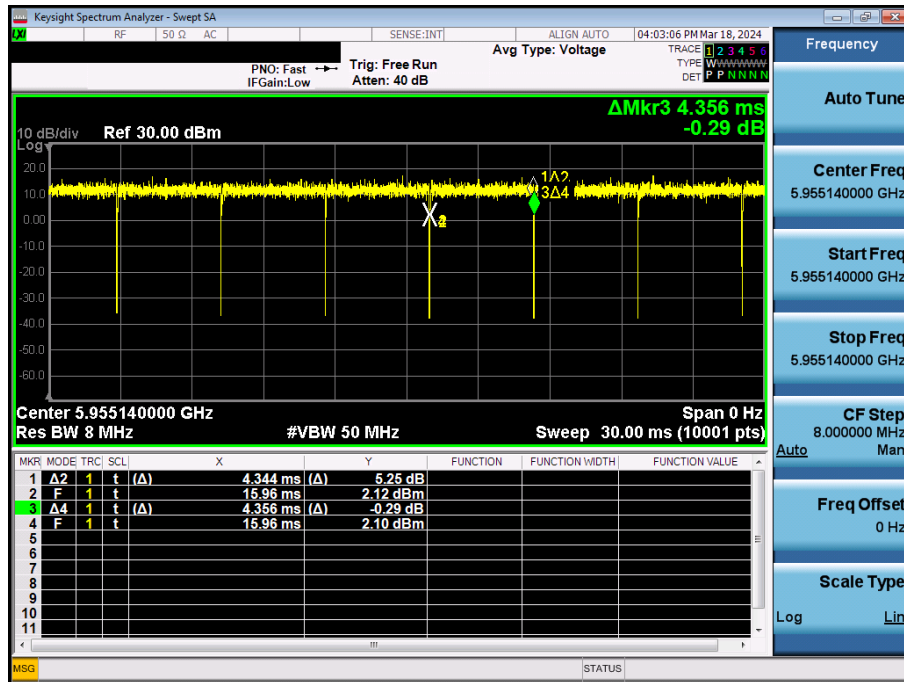
Duty Cycle

Test Mode: 802.11ax(HE160) & 6025 MHz & 106T



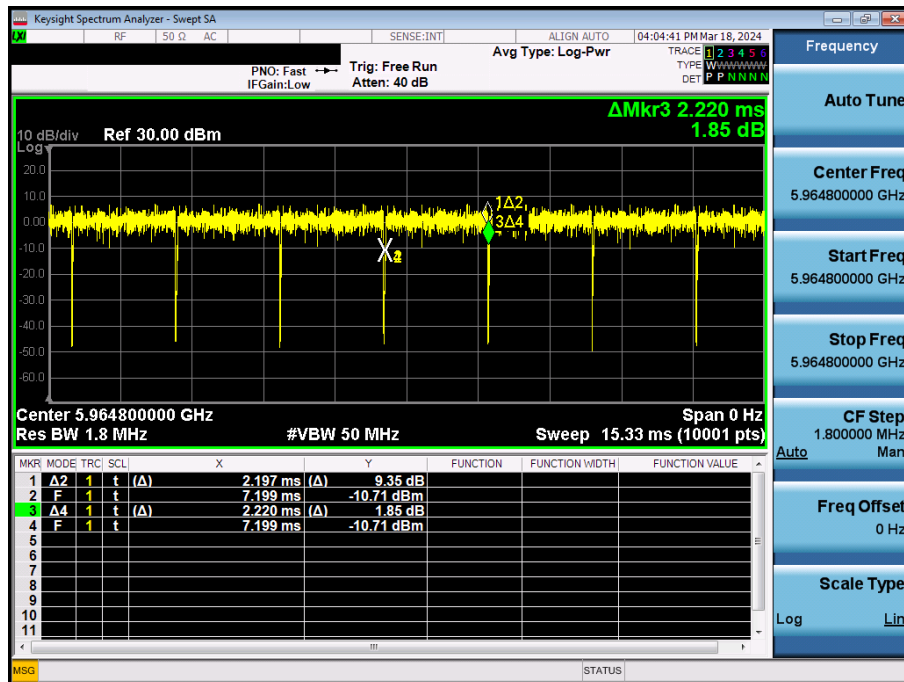
Duty Cycle

Test Mode: 802.11ax(HE160) & 6025 MHz & 242T



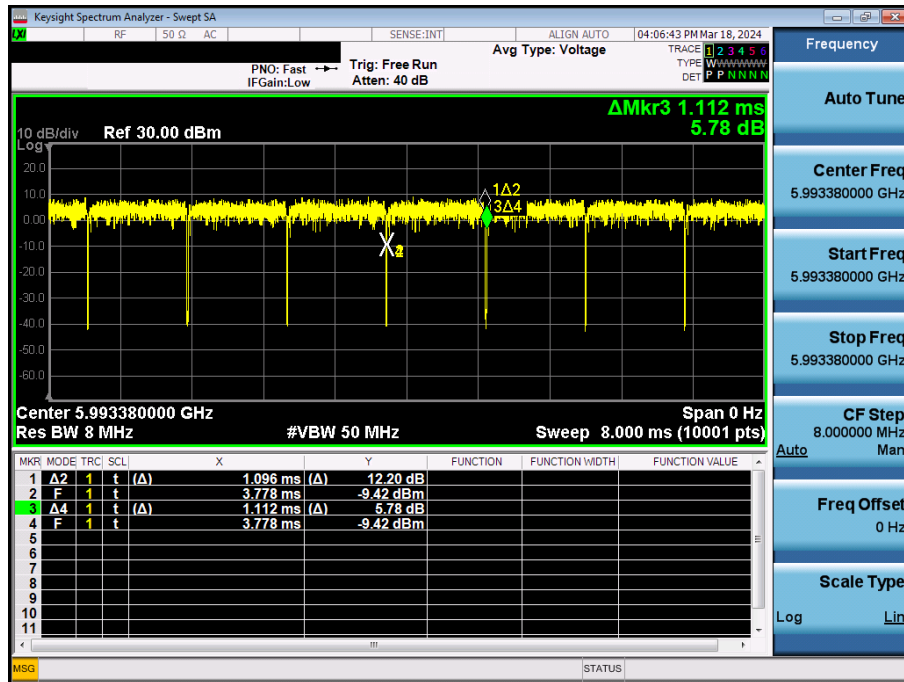
Duty Cycle

Test Mode: 802.11ax(HE160) & 6025 MHz & 484T



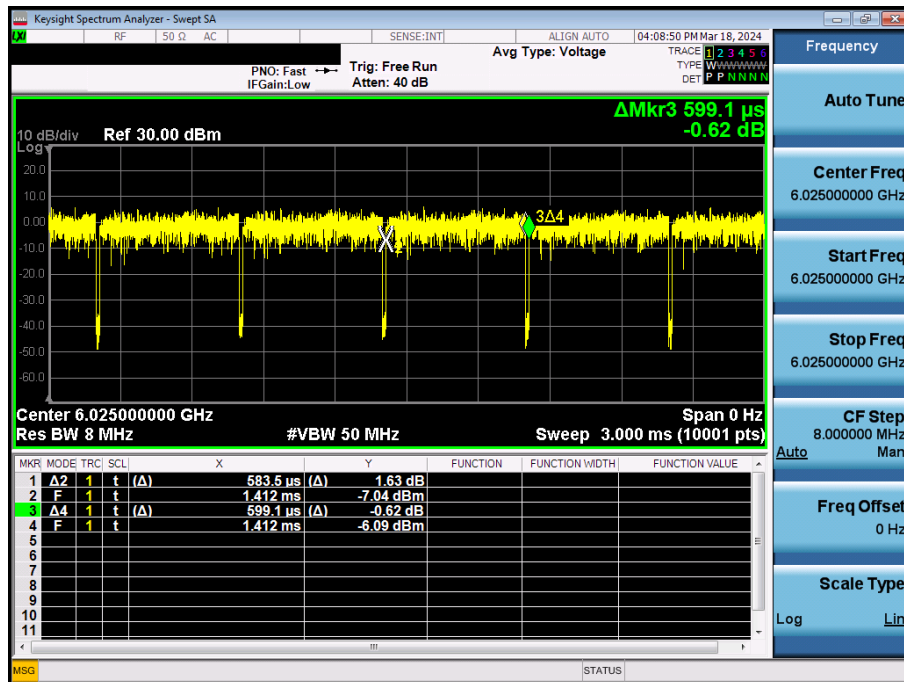
Duty Cycle

Test Mode: 802.11ax(HE160) & 6025 MHz & 996T



Duty Cycle

Test Mode: 802.11ax(HE160) & 6025 MHz & 2X996T

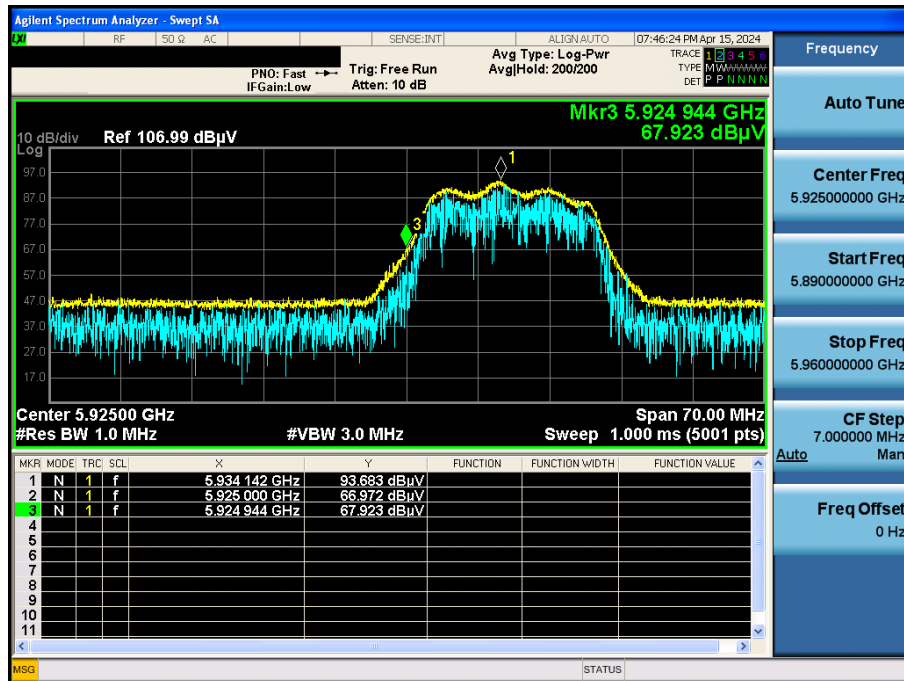


APPENDIX III

Unwanted Emissions (Radiated) Test Plot:

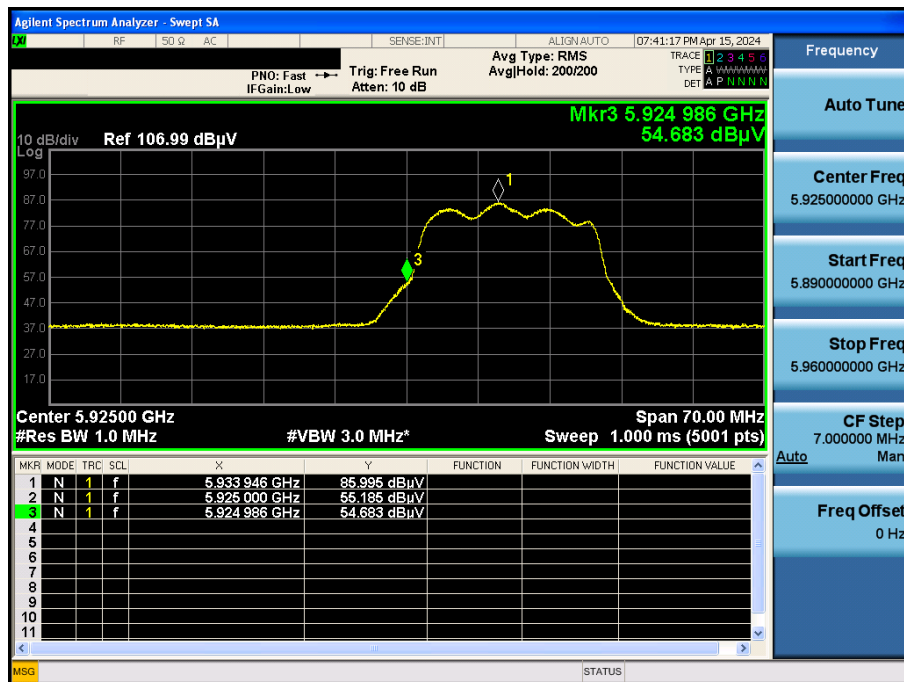
U-NII 5 & LPI & MIMO(CDD) & 802.11a & 5935 & Z axis & Hor

Detector Mode : PK

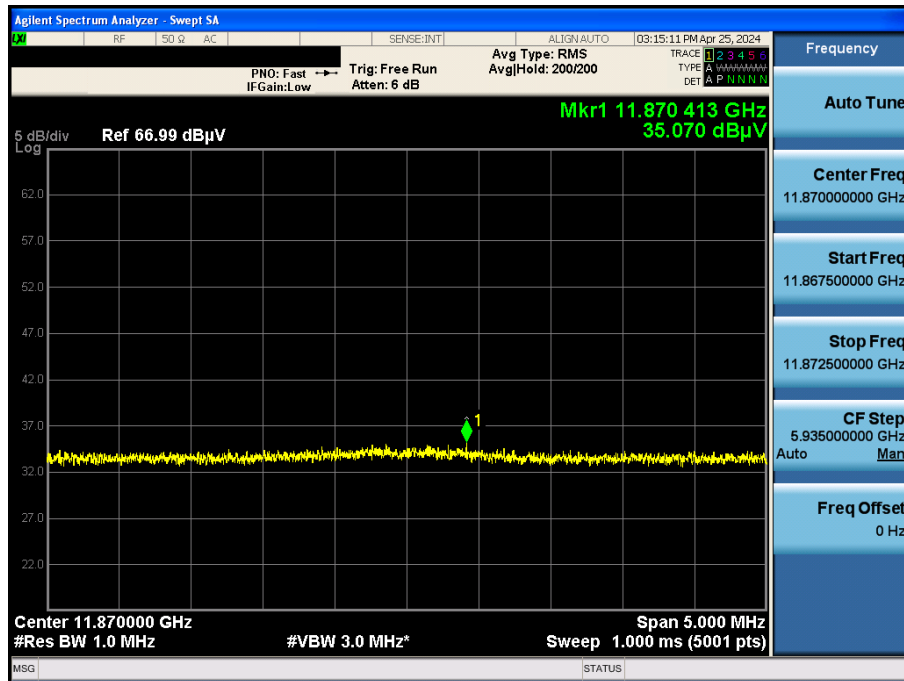


U-NII 5 & LPI & MIMO(CDD) & 802.11a & 5935 & Z axis & Hor

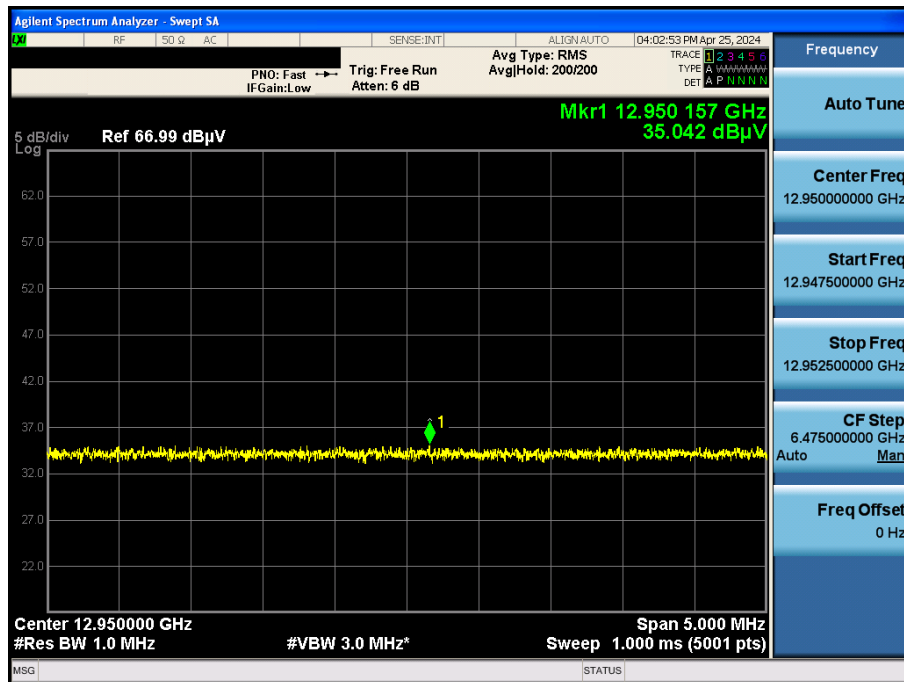
Detector Mode : AV



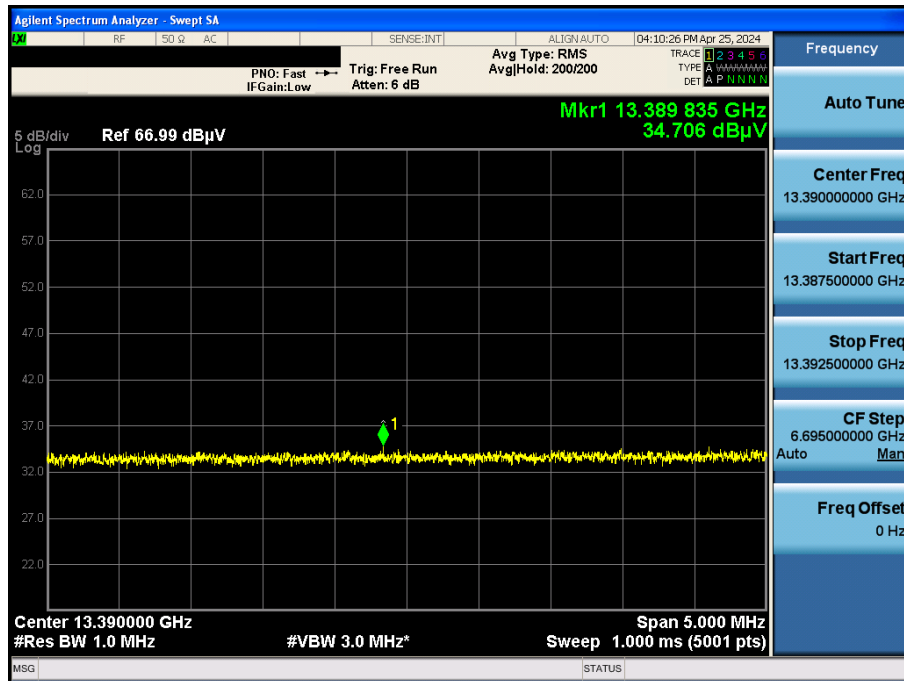
Detector Mode : AV



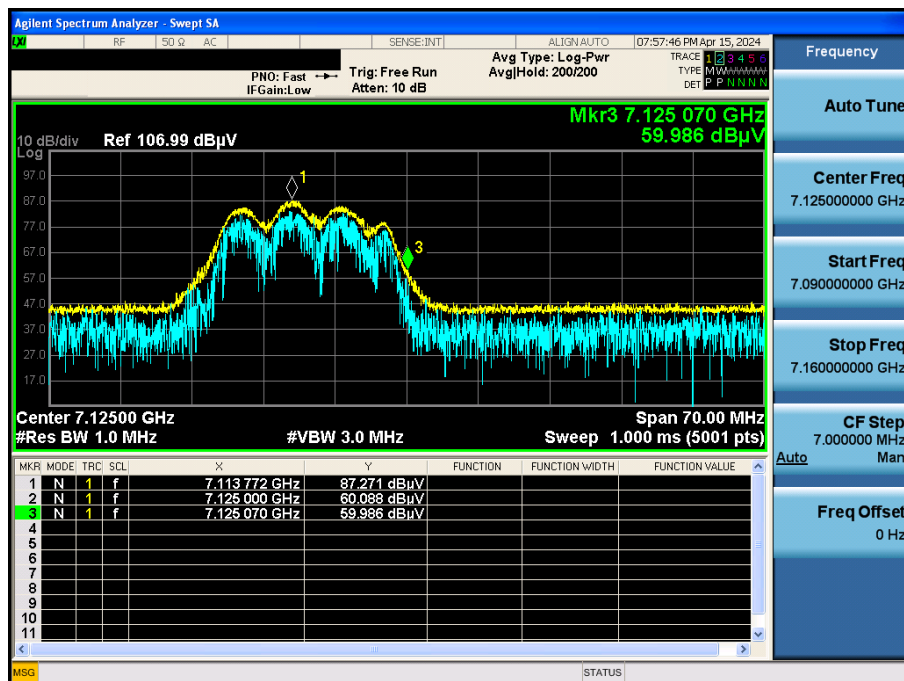
Detector Mode : AV



Detector Mode : AV

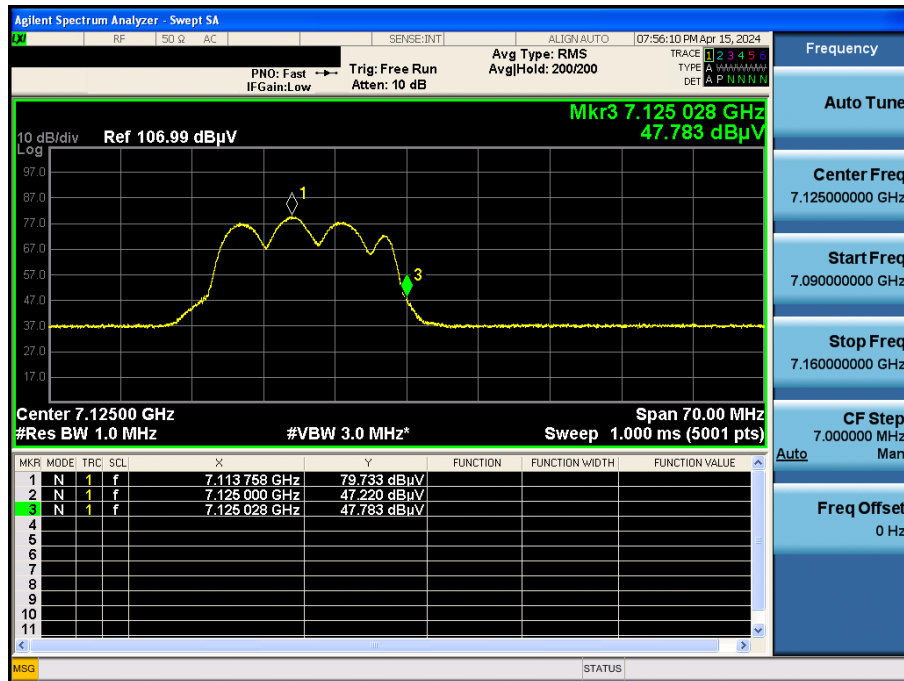


Detector Mode : PK



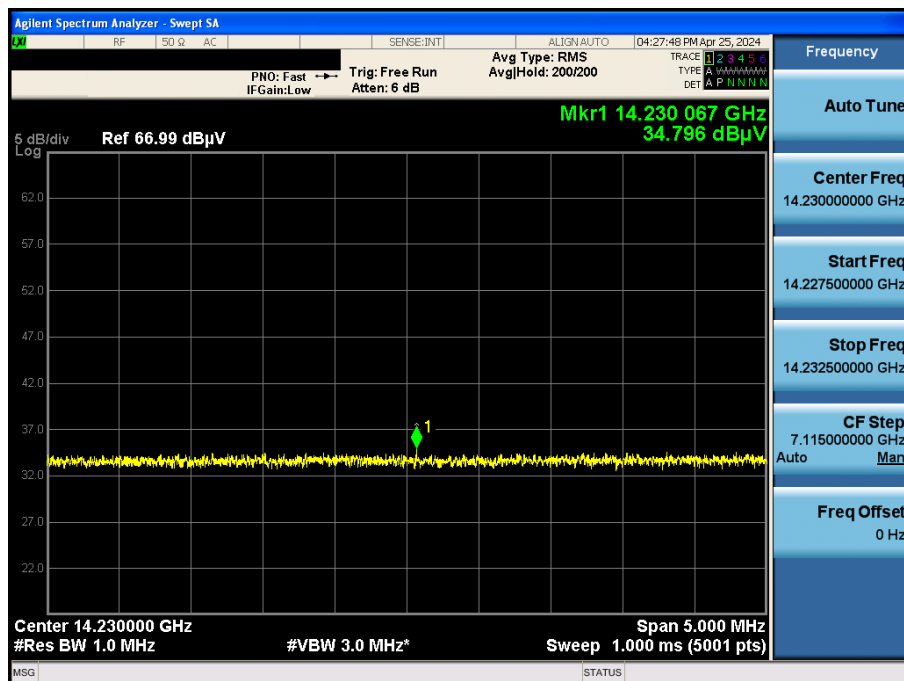
U-NII 8 & LPI & MIMO(CDD) & 802.11a & 7115 & Z axis & Hor

Detector Mode : AV



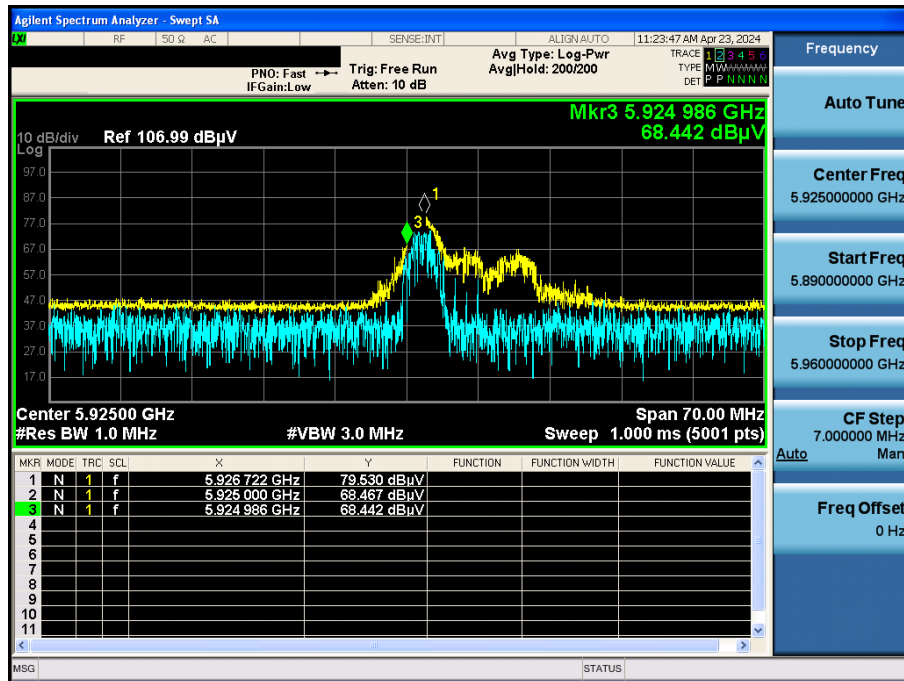
U-NII 8 & LPI & MIMO(CDD) & 802.11a & 7115 & Z axis & Hor

Detector Mode : AV



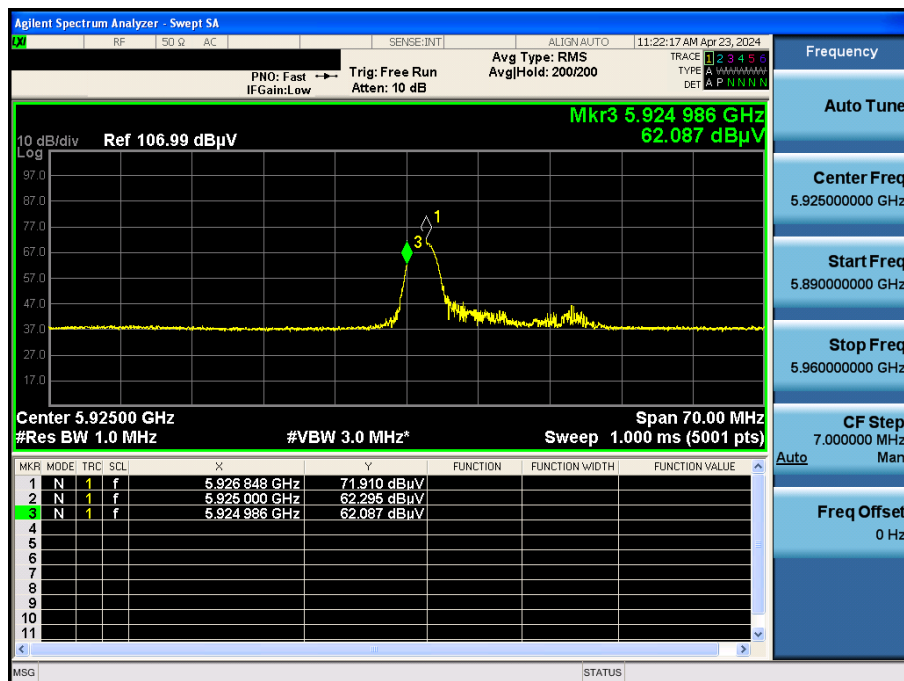
U-NII 5 & LPI & MIMO(CDD) & 802.11ax(HE20) & 5935 & 26T(0) & Y axis & Ver

Detector Mode : PK

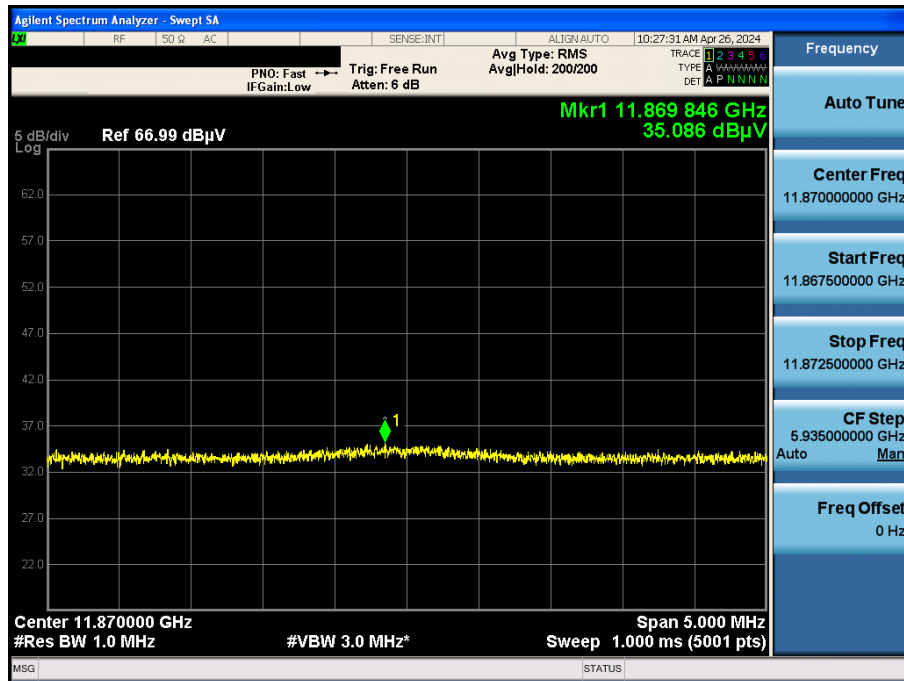


U-NII 5 & LPI & MIMO(CDD) & 802.11ax(HE20) & 5935 & 26T(0) & Y axis & Ver

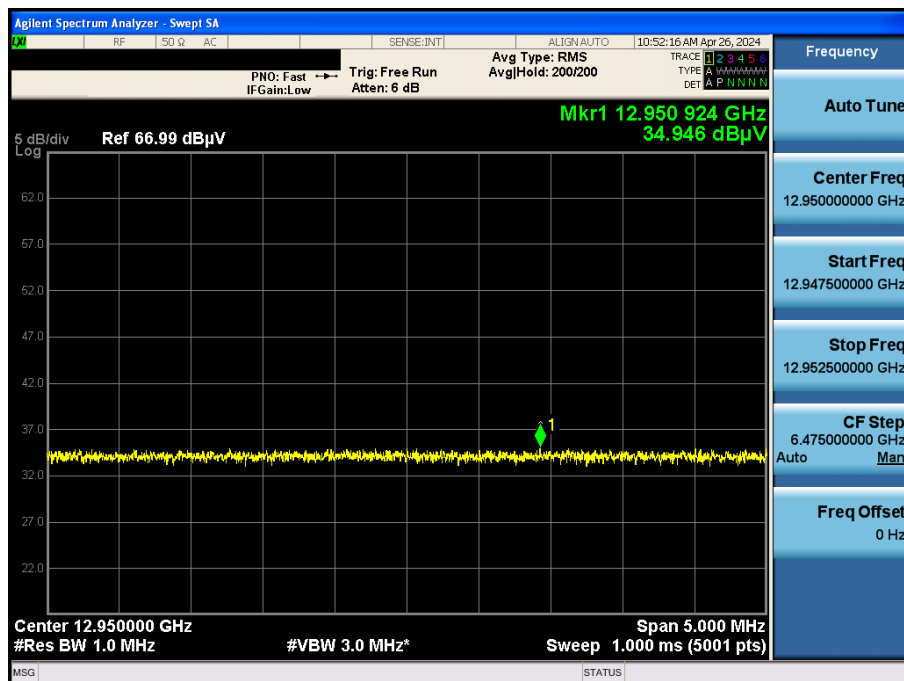
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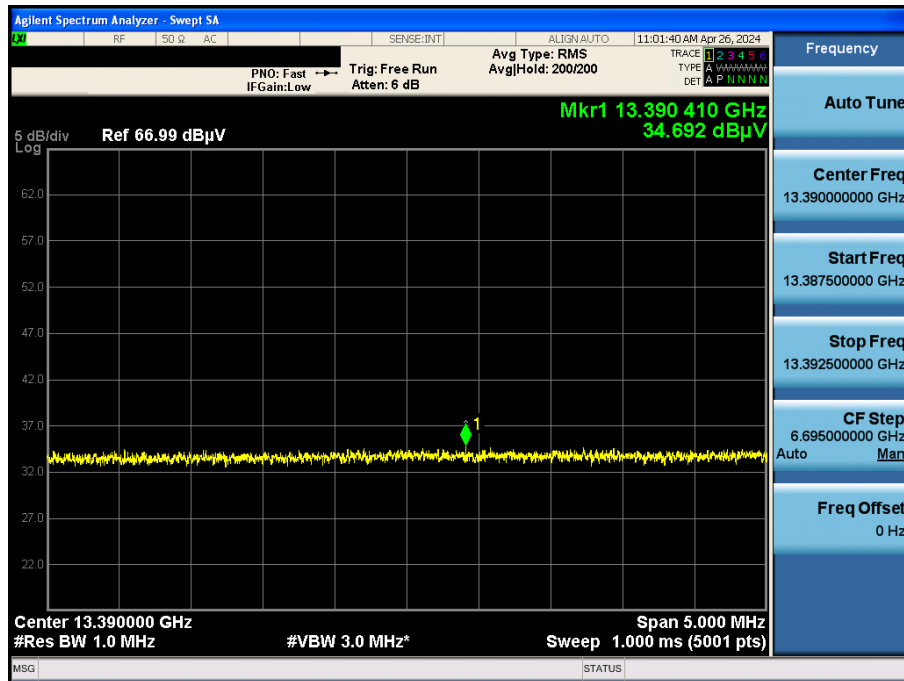
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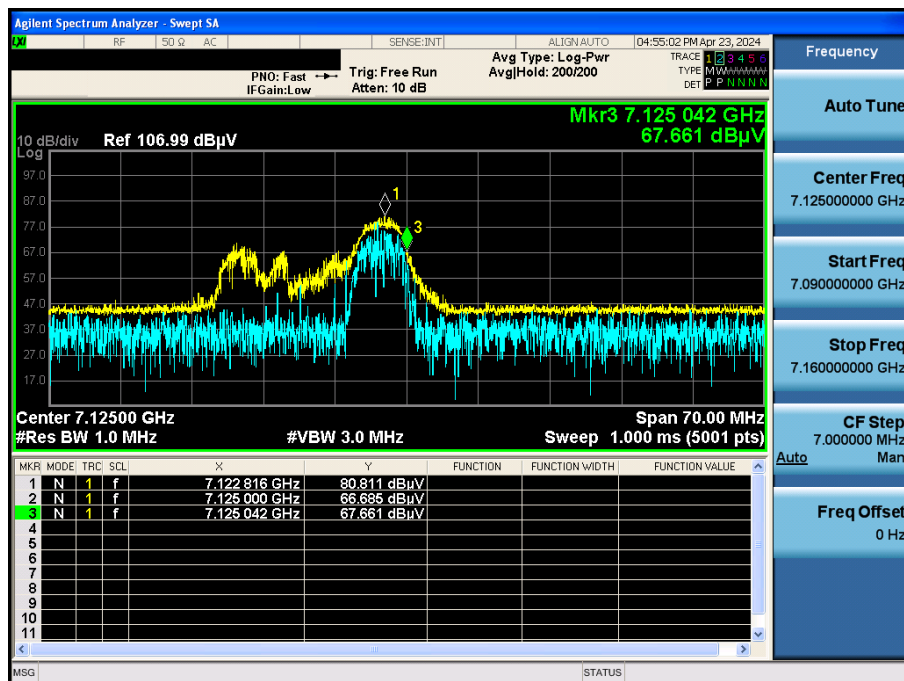
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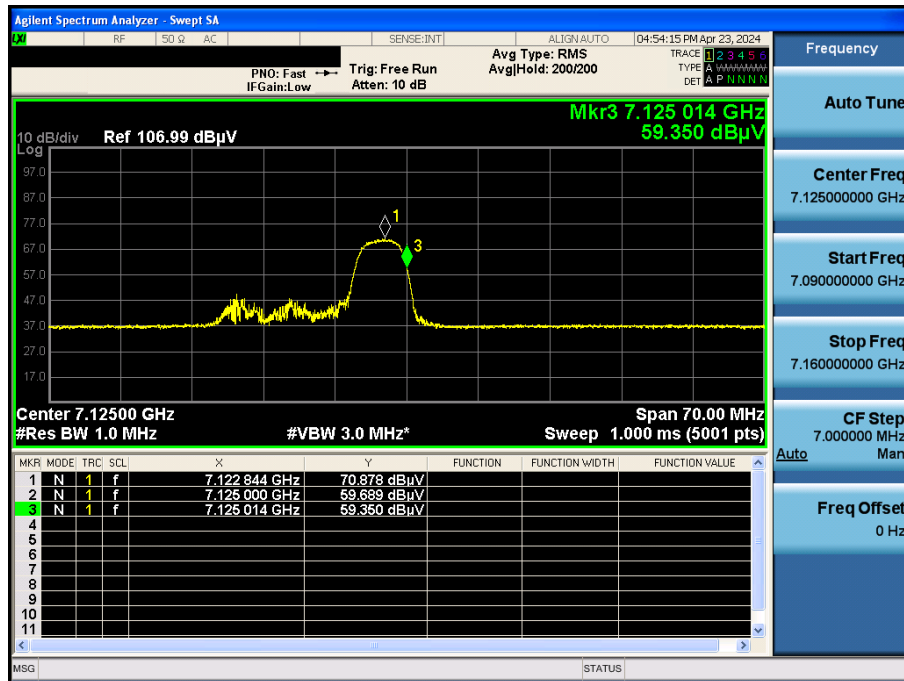
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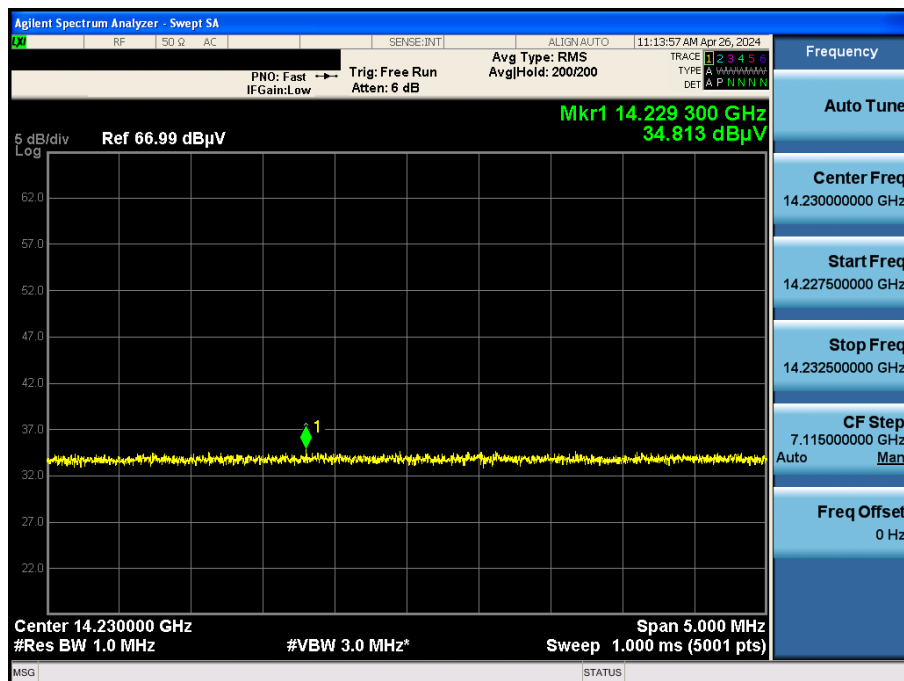
Detector Mode : PK



Detector Mode : AV

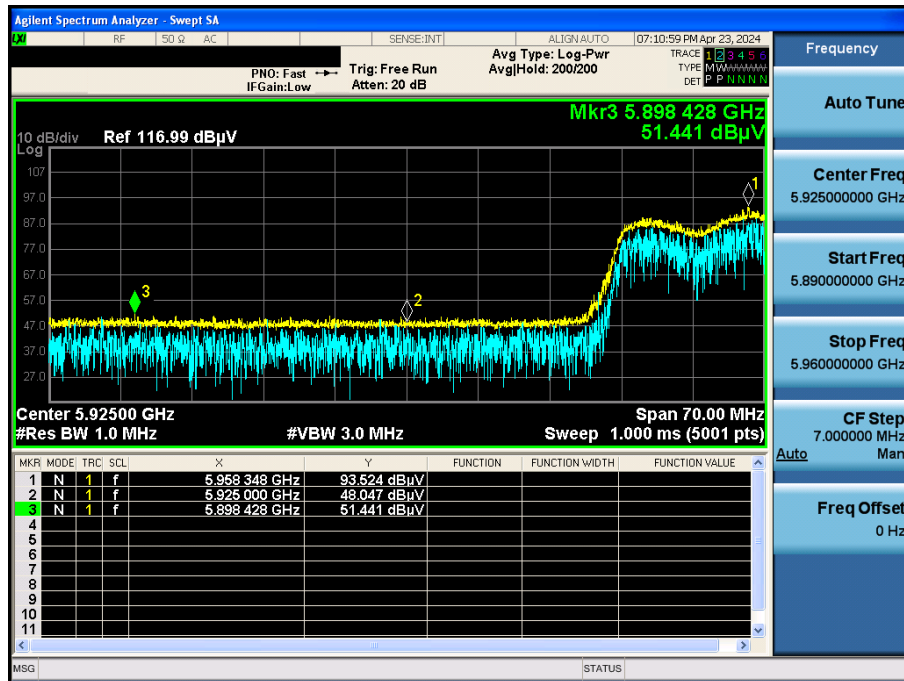


Detector Mode : AV



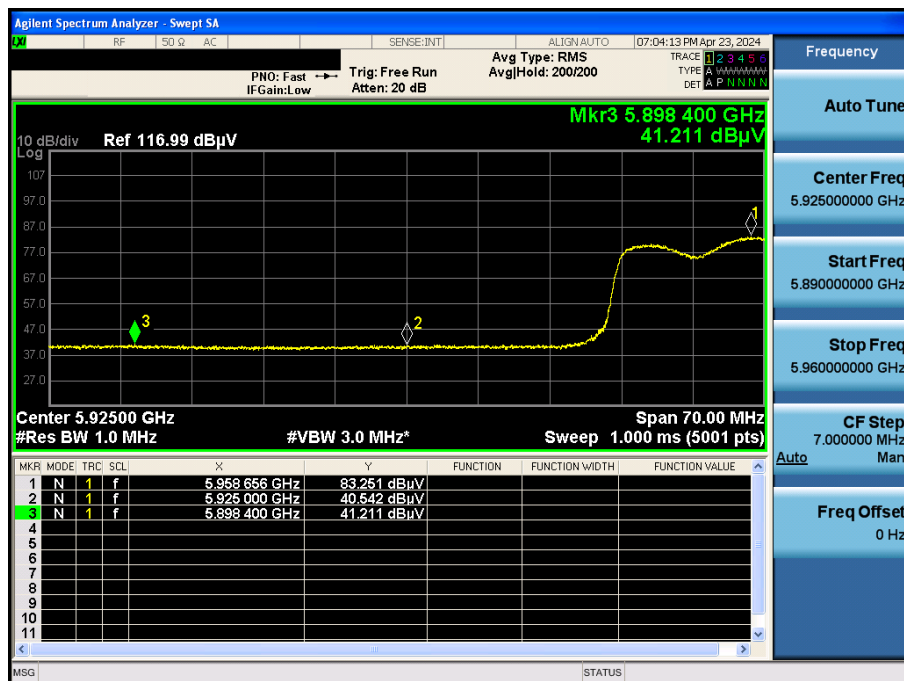
U-NII 5 & LPI & MIMO(CDD) & 802.11ax(HE40) & 5965 & SU & Y axis & Ver

Detector Mode : PK

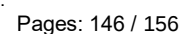


U-NII 5 & LPI & MIMO(CDD) & 802.11ax(HE40) & 5965 & SU & Y axis & Ver

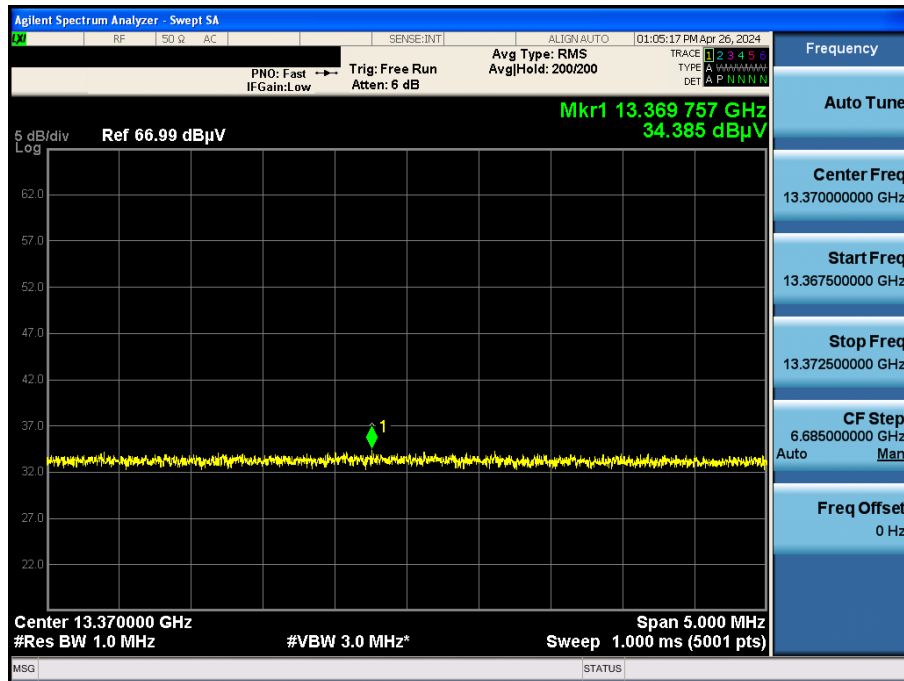
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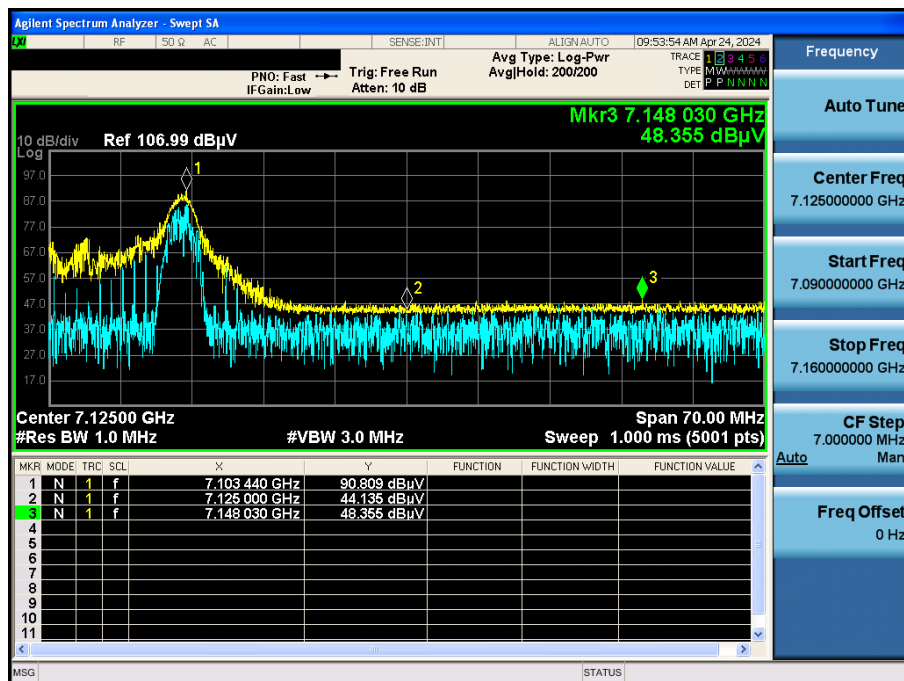
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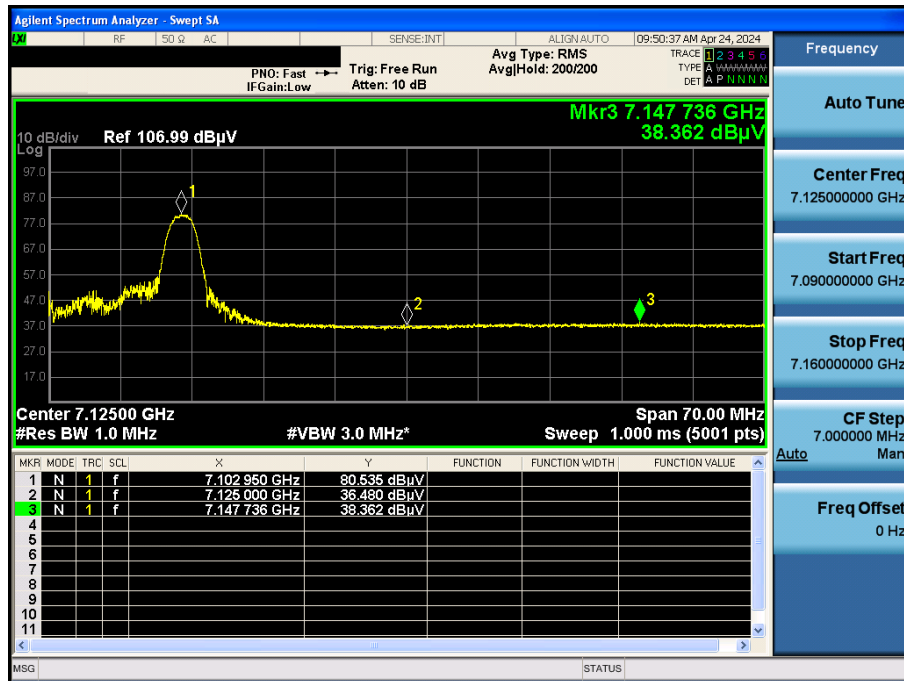
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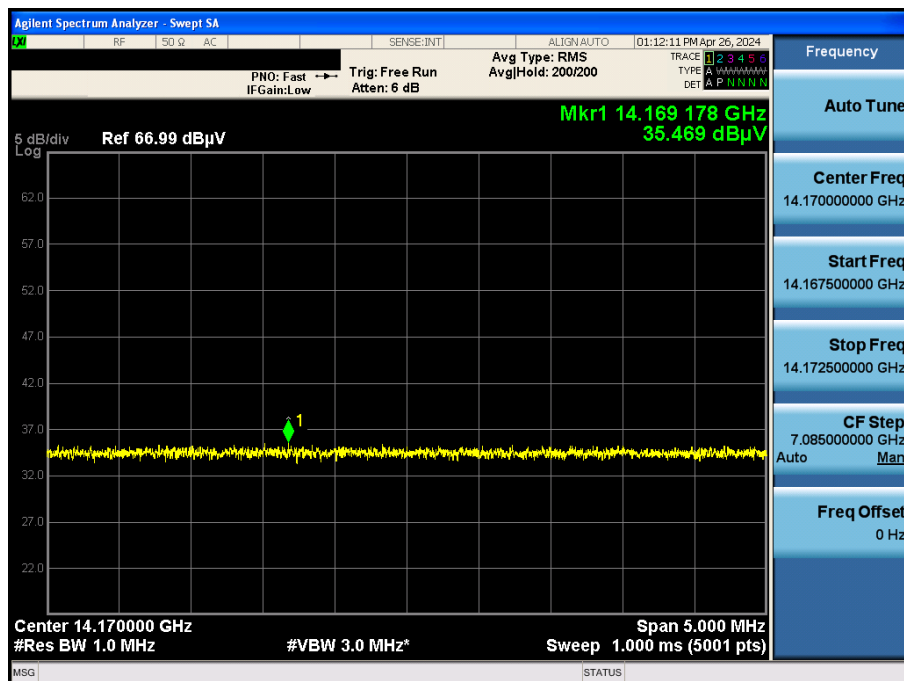
Detector Mode : PK



Detector Mode : AV

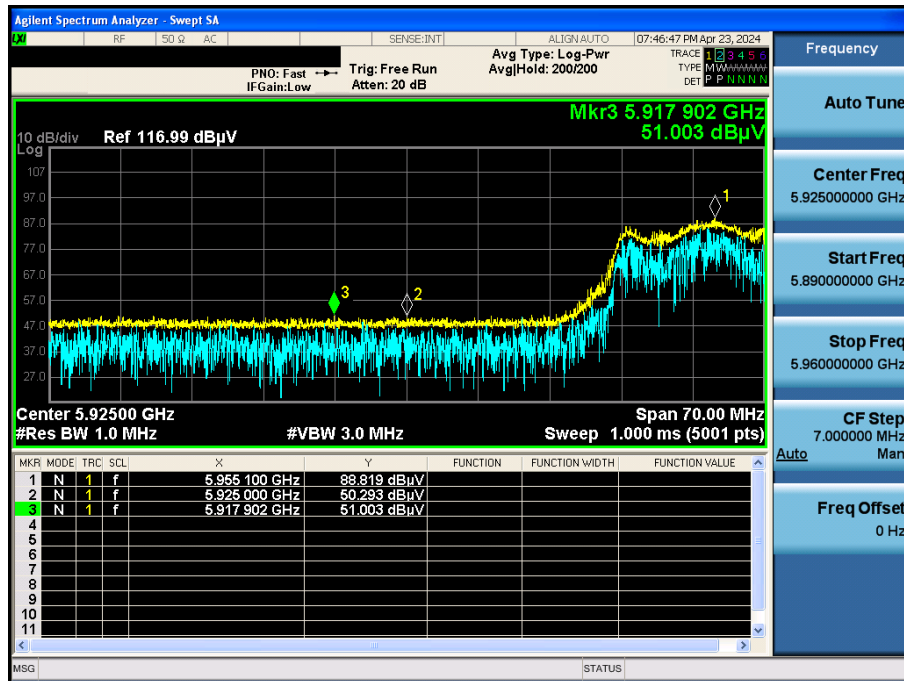


Detector Mode : AV



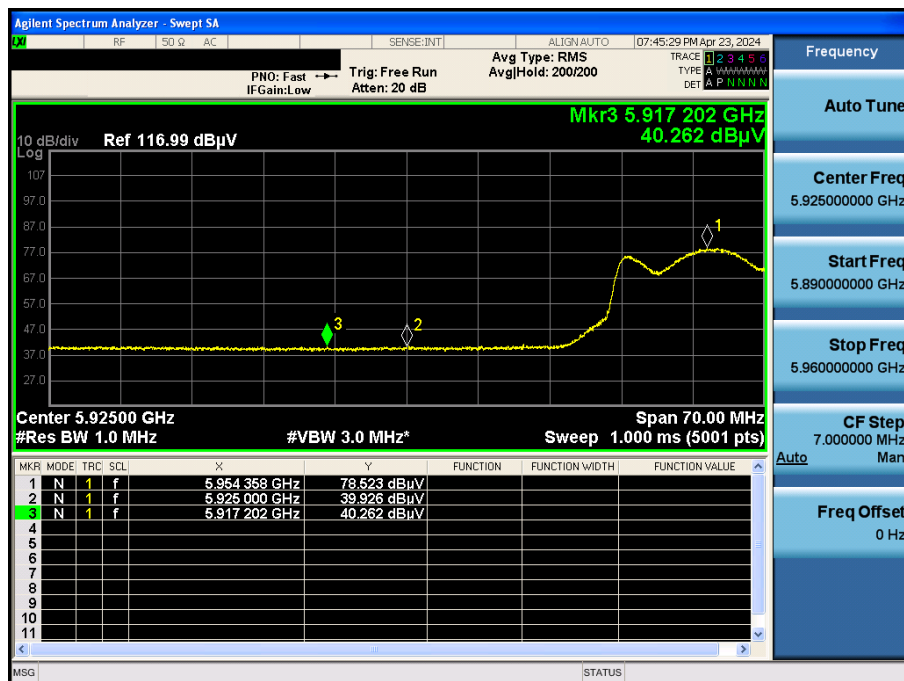
U-NII 5 & LPI & MIMO(CDD) & 802.11ax(HE80) & 5985 & SU & Y axis & Ver

Detector Mode : PK

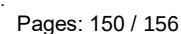


U-NII 5 & LPI & MIMO(CDD) & 802.11ax(HE80) & 5985 & SU & Y axis & Ver

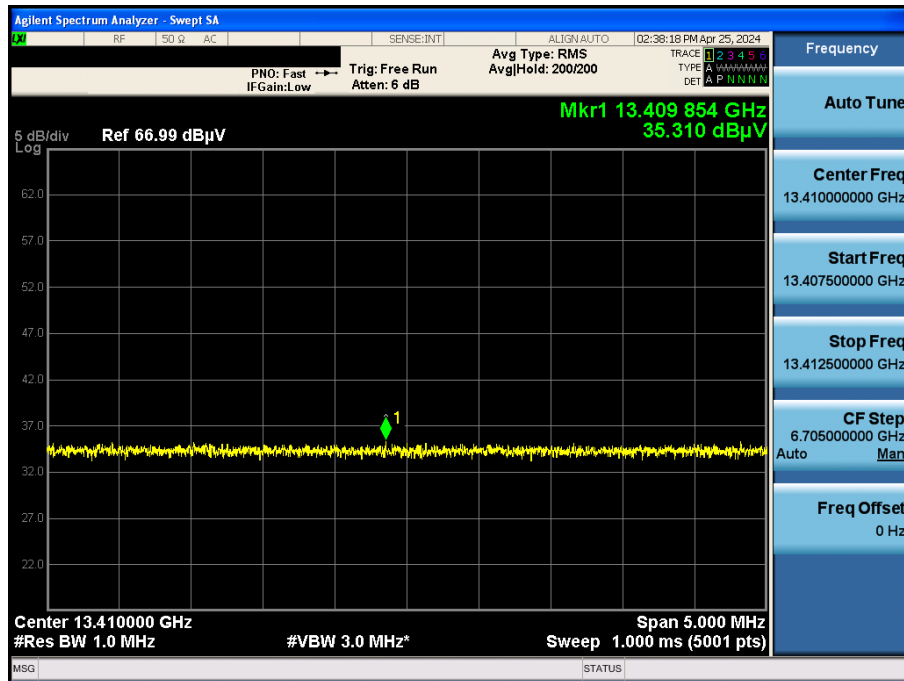
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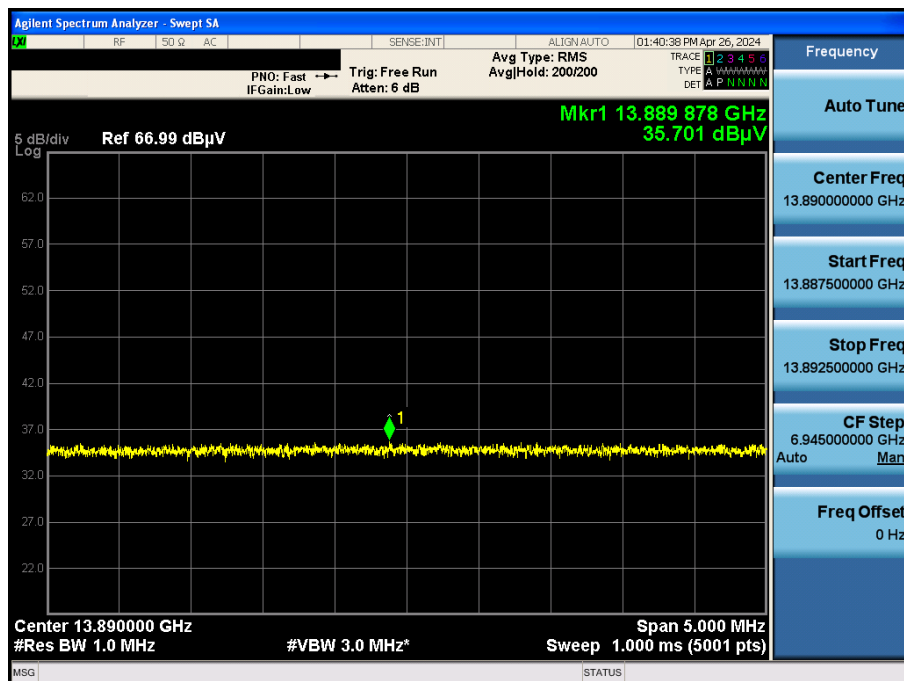
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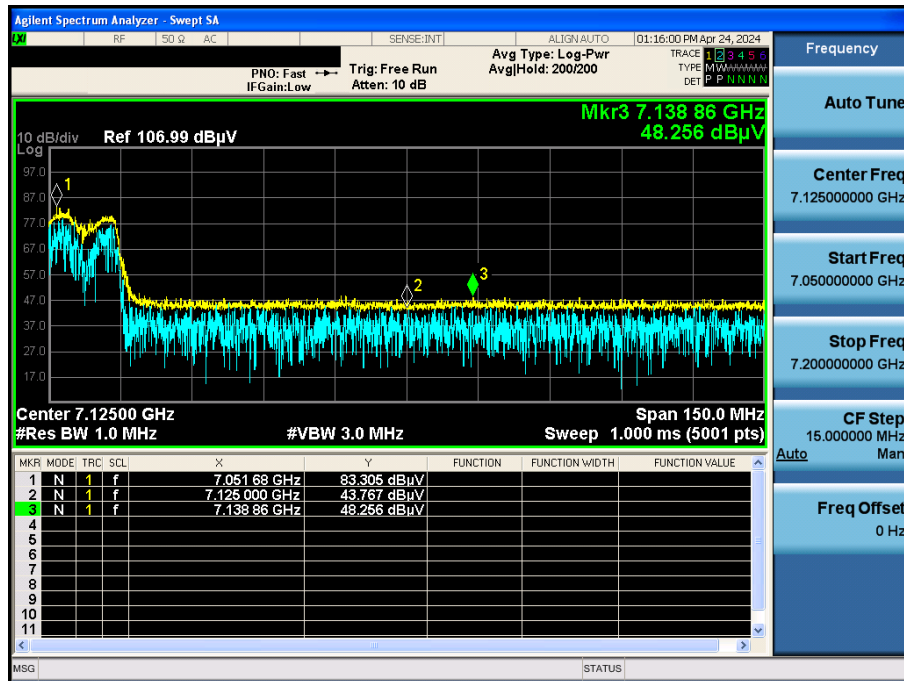
Detector Mode : AV



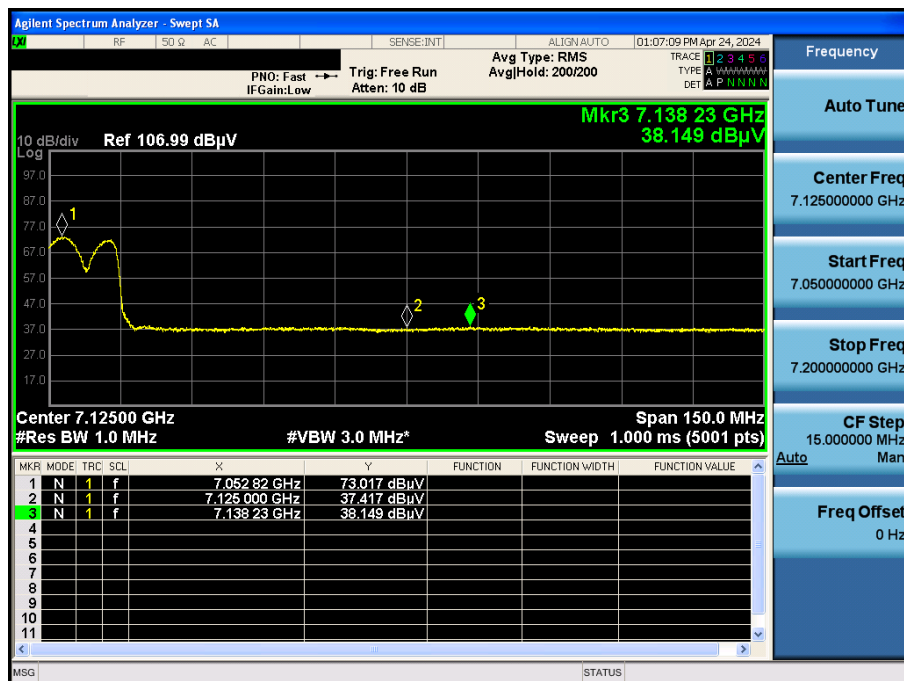
Detector Mode : AV



U-NII 8 & LPI & MIMO(CDD) & 802.11ax(HE80) & 7025 & 996T(67) & Y axis & Ver Detector Mode : PK

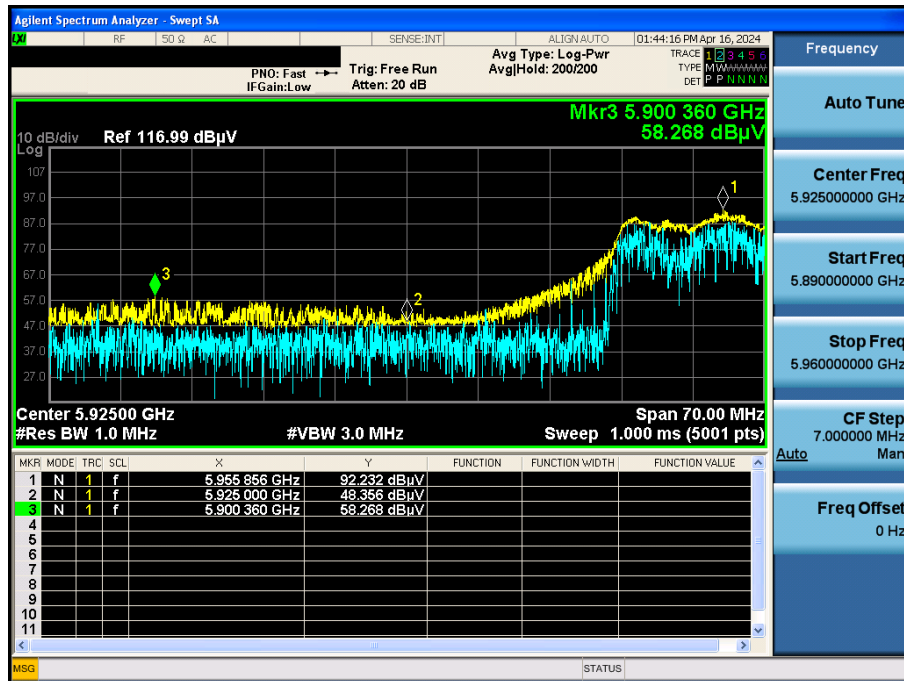


U-NII 8 & LPI & MIMO(CDD) & 802.11ax(HE80) & 7025 & 996T(67) & Y axis & Ver Detector Mode : AV



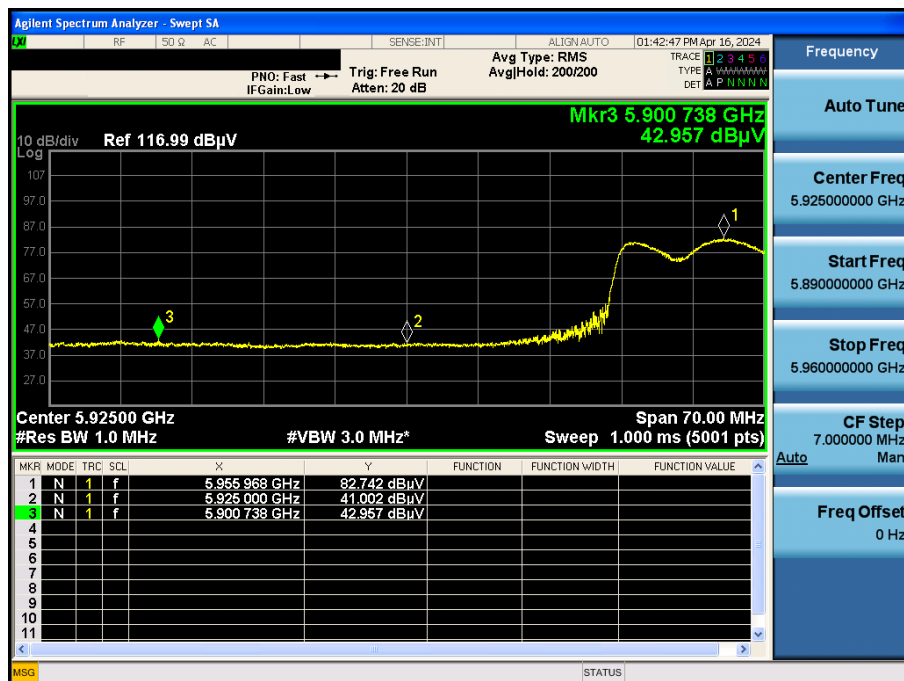
U-NII 5 & LPI & MIMO(CDD) & 802.11ax(HE160) & 6025 & 2X996T(68) & Y axis & Ver

Detector Mode : PK

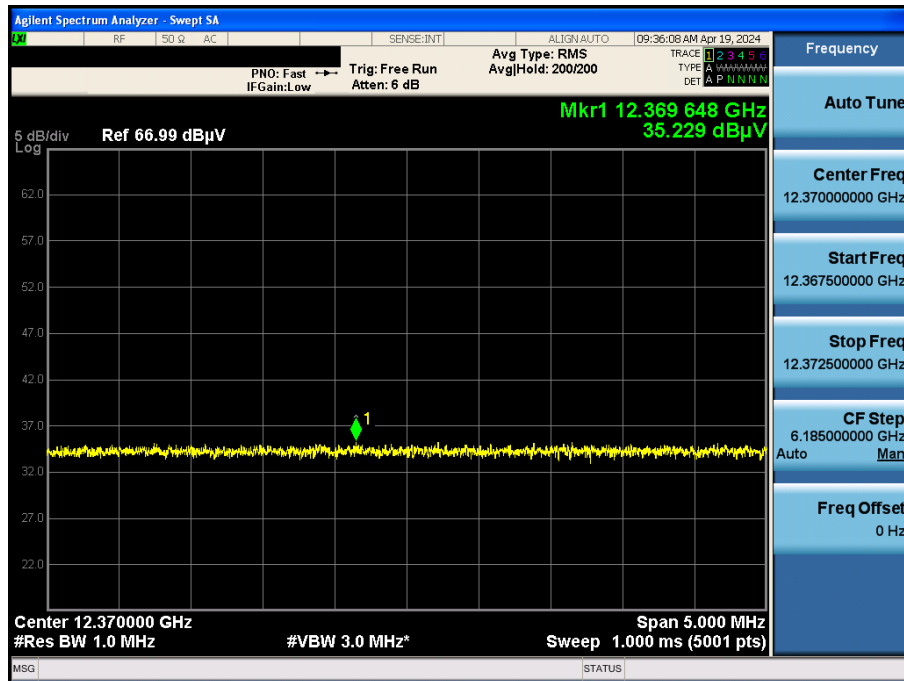


U-NII 5 & LPI & MIMO(CDD) & 802.11ax(HE160) & 6025 & 2X996T(68) & Y axis & Ver

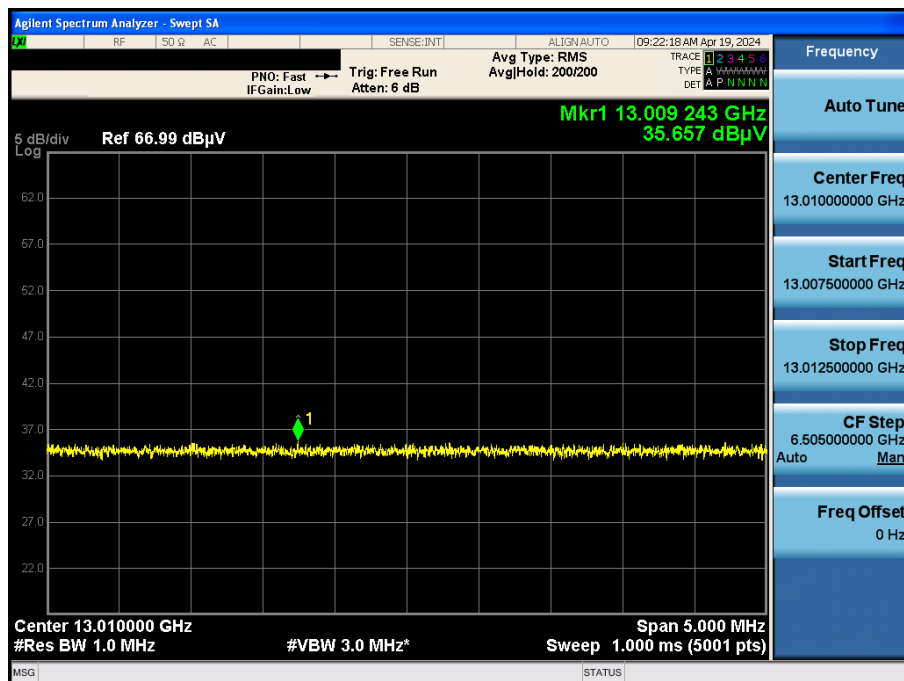
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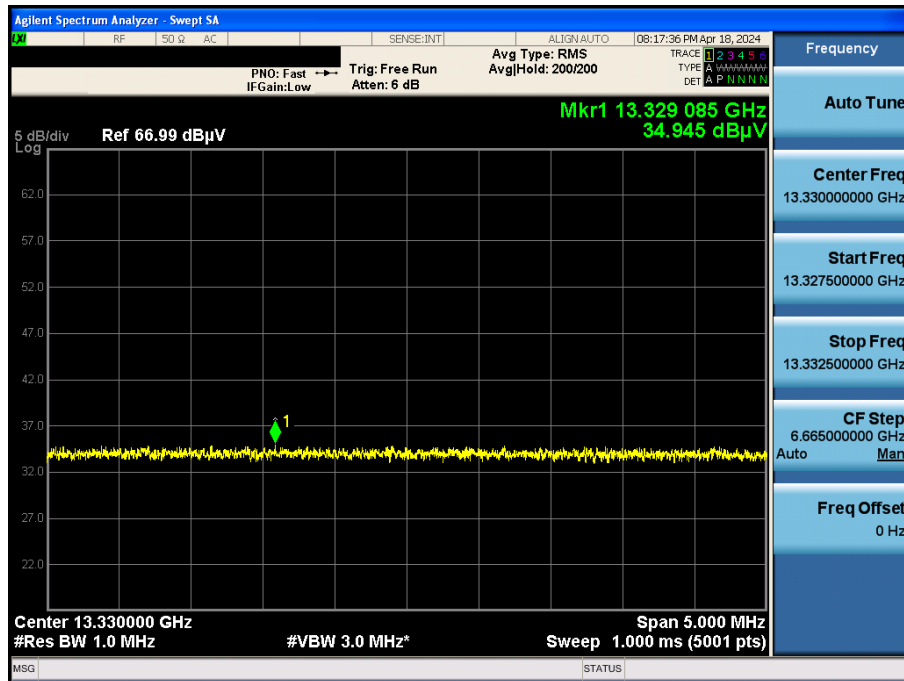
Detector Mode : AV



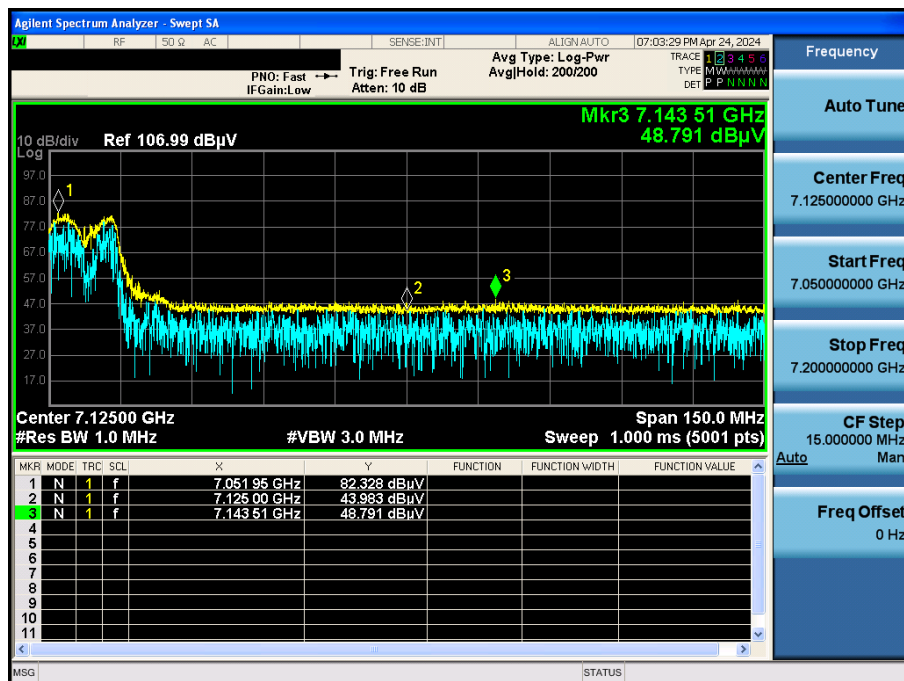
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Detector Mode : AV

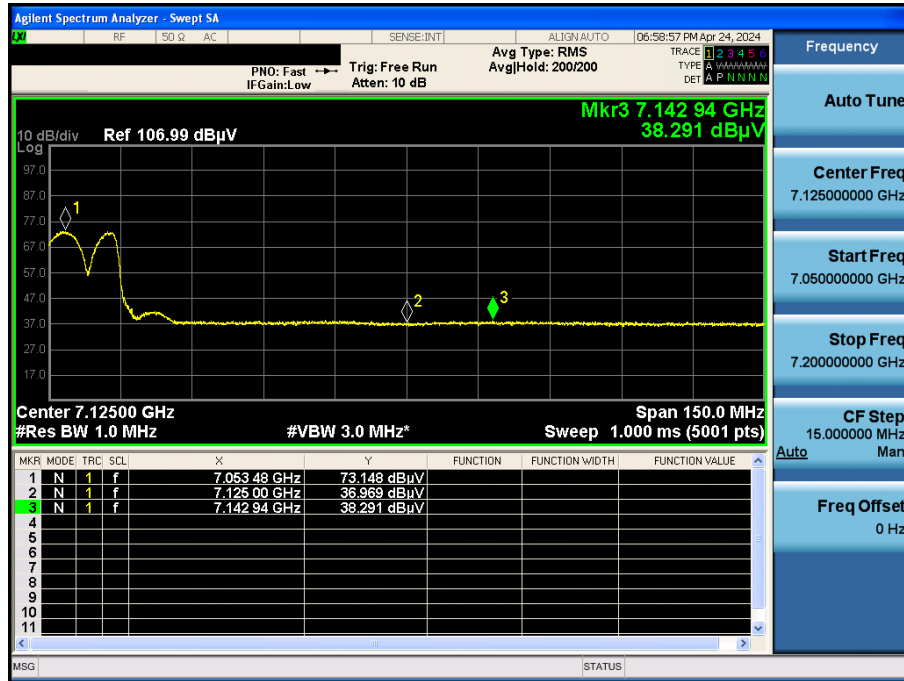


Detector Mode : PK



U-NII 8 & LPI & MIMO(CDD) & 802.11ax(HE160) & 6985 & SU & Y axis & Ver

Detector Mode : AV



U-NII 8 & LPI & MIMO(CDD) & 802.11ax(HE160) & 6985 & SU & Y axis & Ver

Detector Mode : AV

