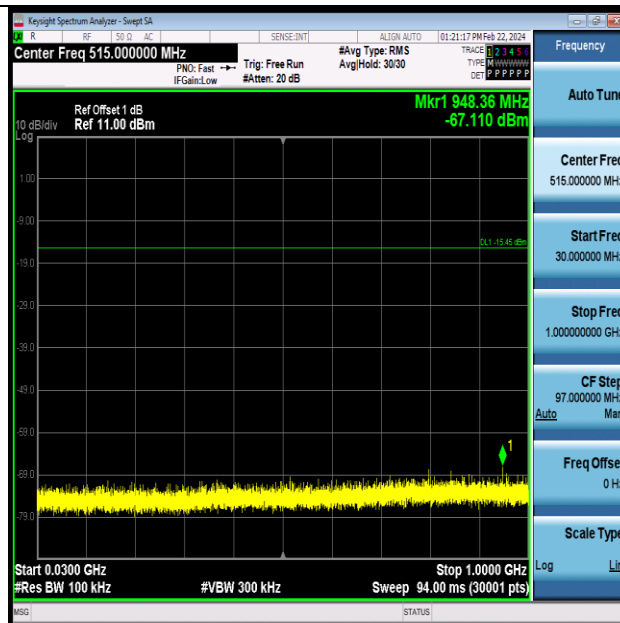
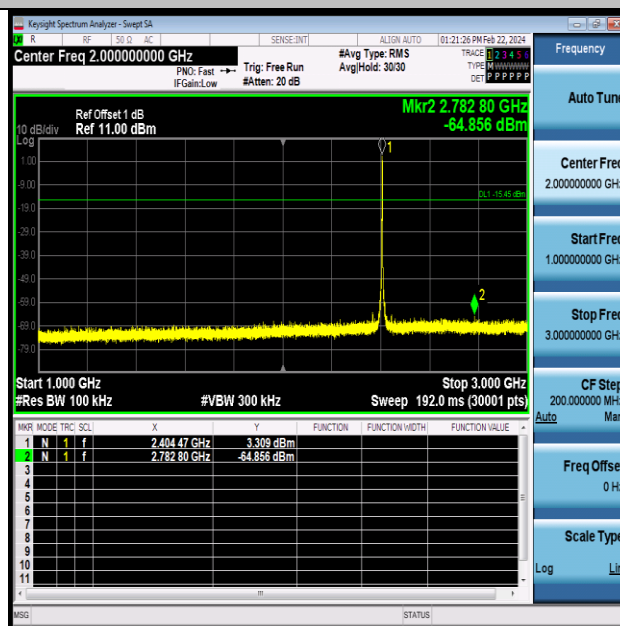


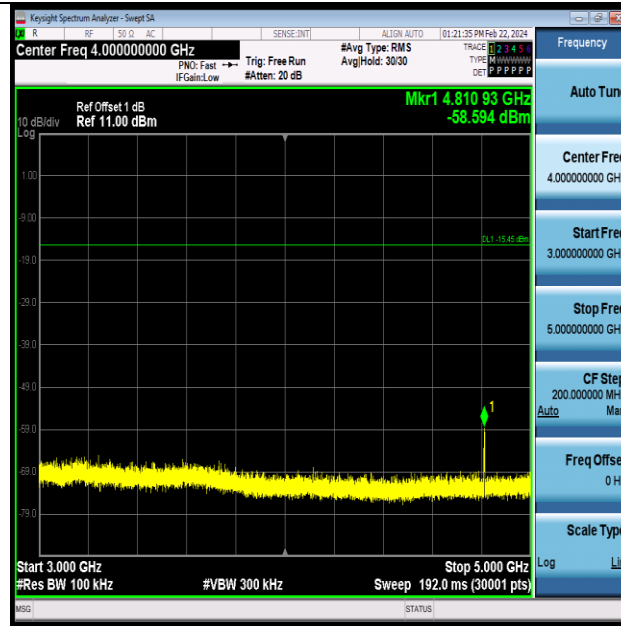
Test Graphs for Spurious Emission



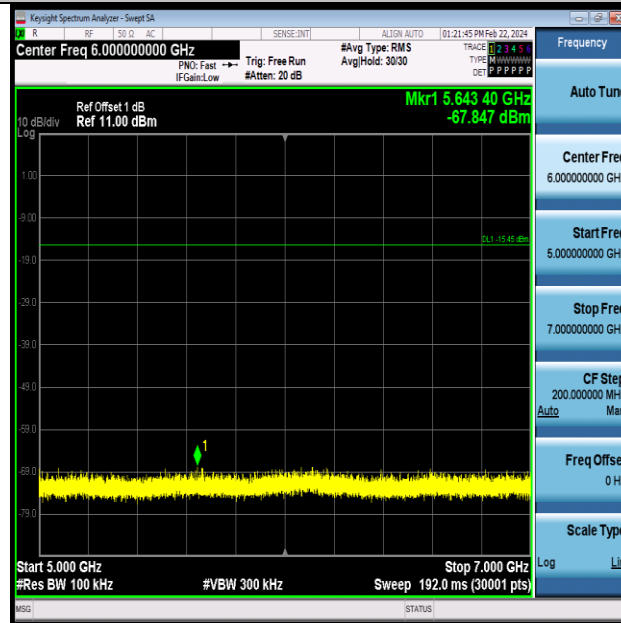
ZIGB-Ant1-2405-30~1000-PASS



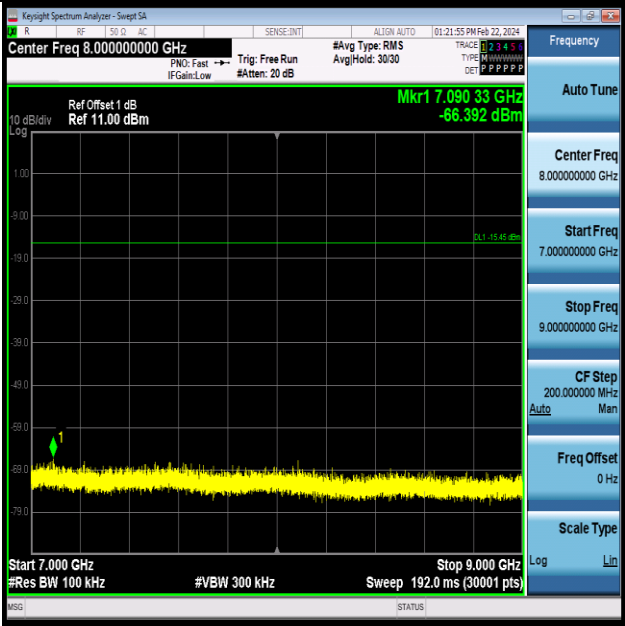
ZIGB-Ant1-2405-1000~3000-PASS



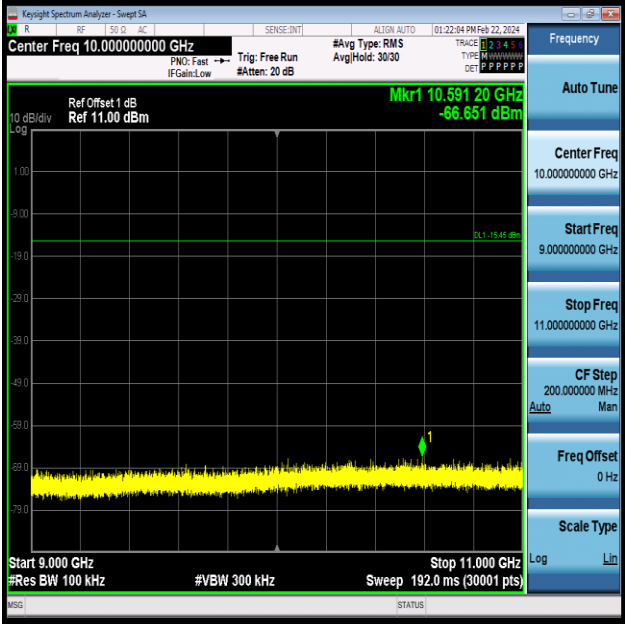
ZIGB-Ant1-2405-3000~5000-PASS



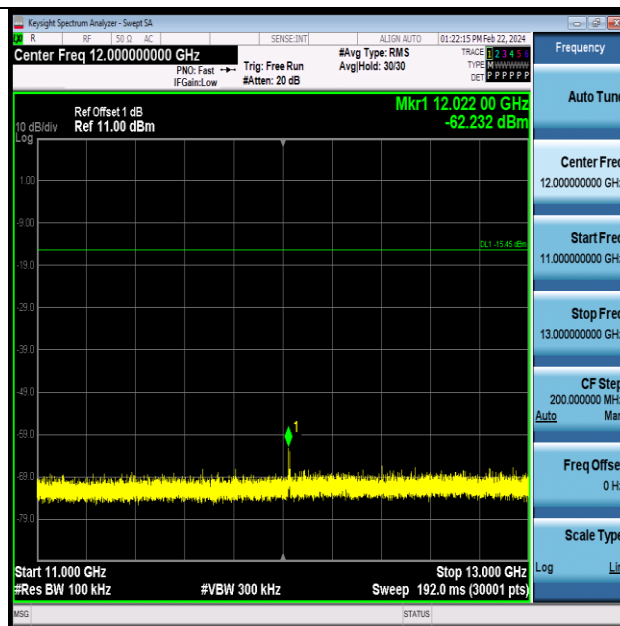
ZIGB-Ant1-2405-5000~7000-PASS



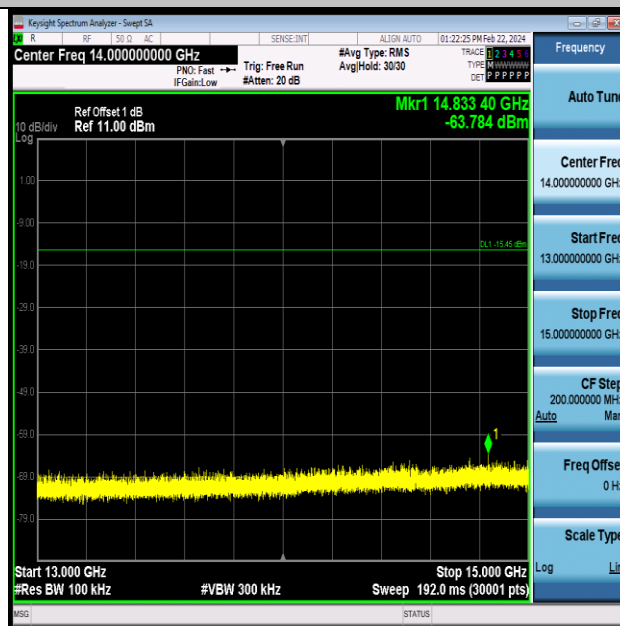
ZIGB-Ant1-2405-7000~9000-PASS



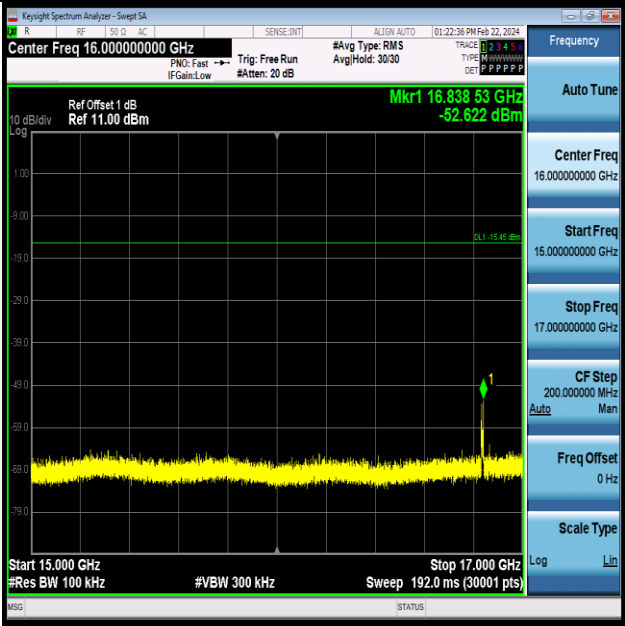
ZIGB-Ant1-2405-9000~11000-PASS



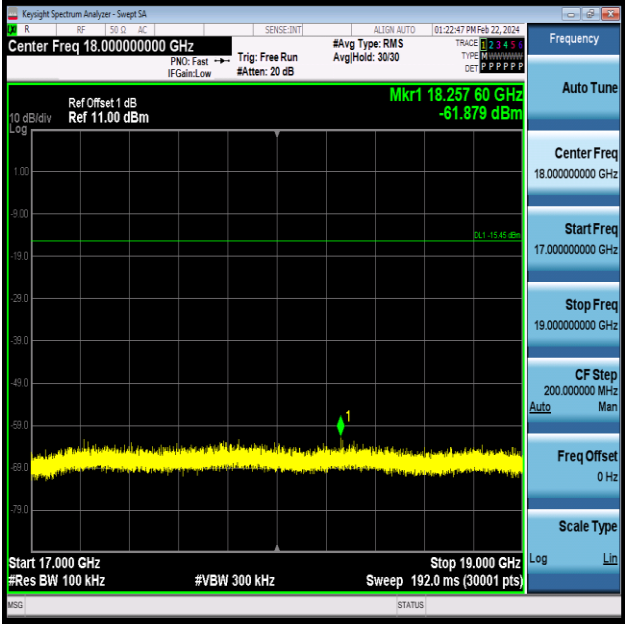
ZIGB-Ant1-2405-11000~13000-PASS



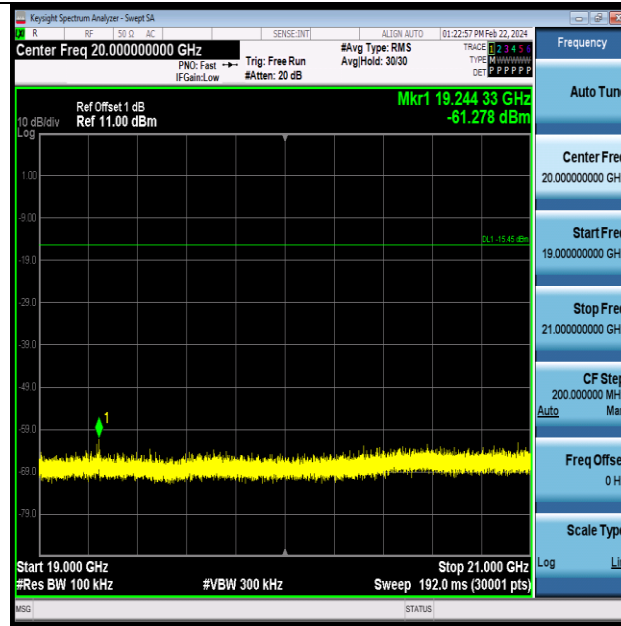
ZIGB-Ant1-2405-13000~15000-PASS



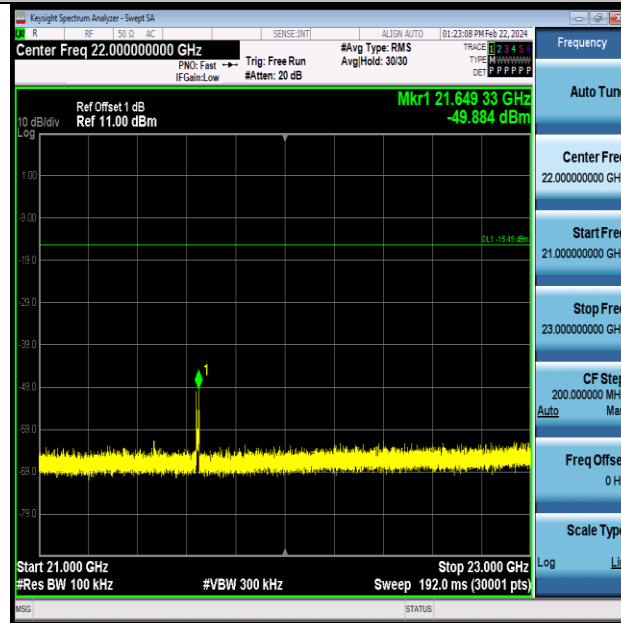
ZIGB-Ant1-2405-15000~17000-PASS



ZIGB-Ant1-2405-17000~19000-PASS



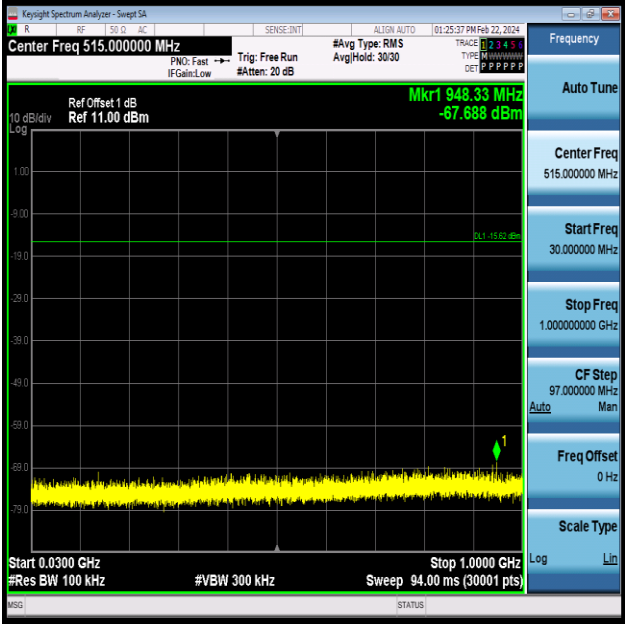
ZIGB-Ant1-2405-19000~21000-PASS



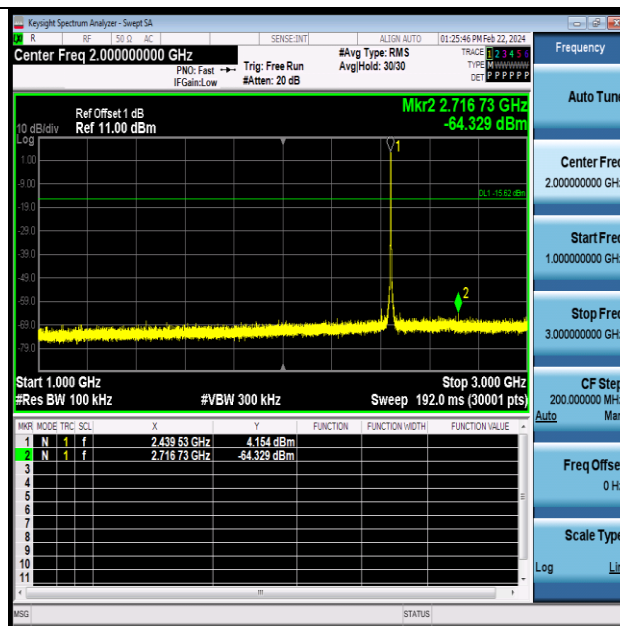
ZIGB-Ant1-2405-21000~23000-PASS



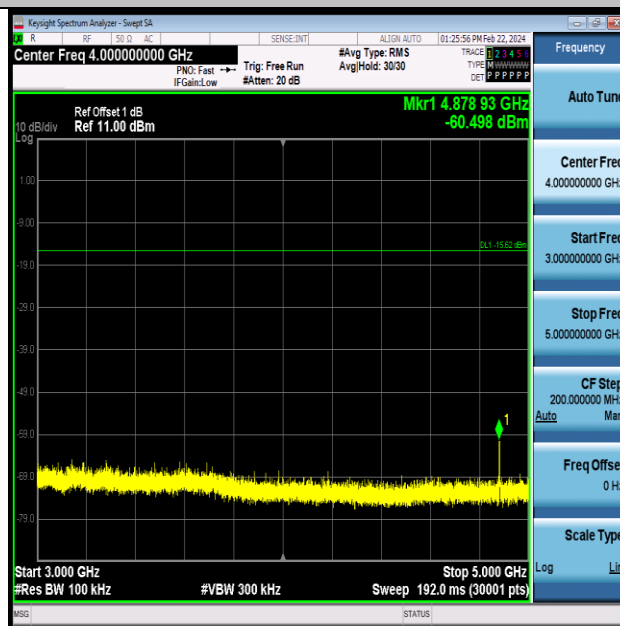
ZIGB-Ant1-2405-23000~25000-PASS



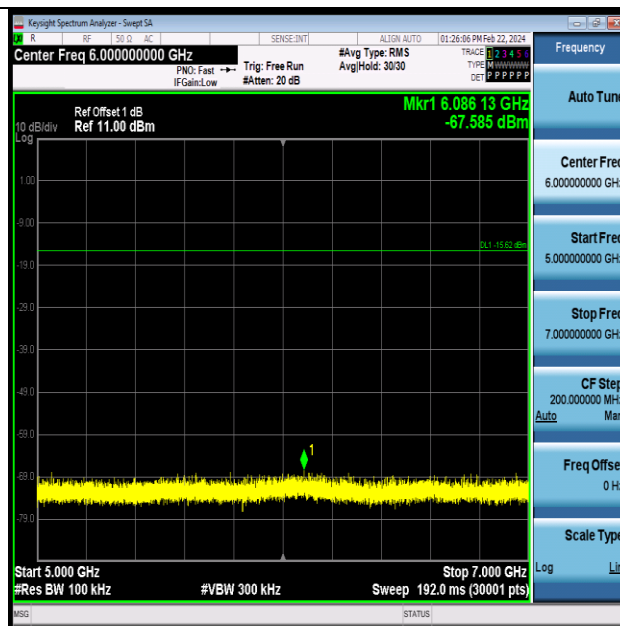
ZIGB-Ant1-2440-30~1000-PASS



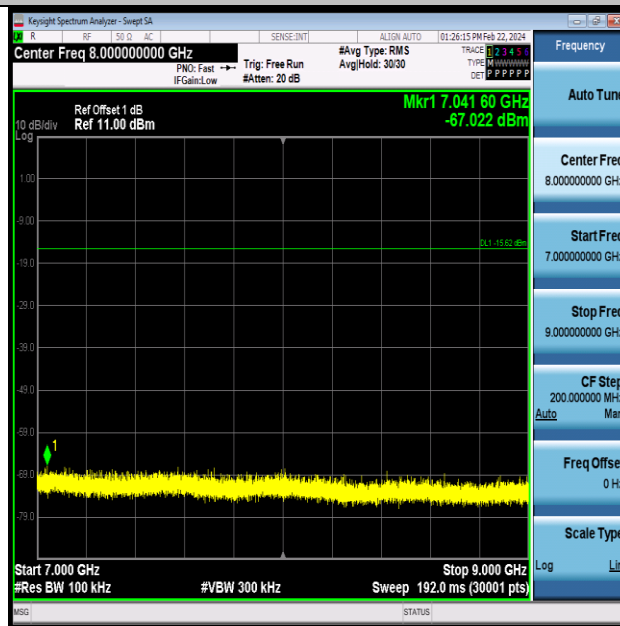
ZIGB-Ant1-2440-1000~3000-PASS



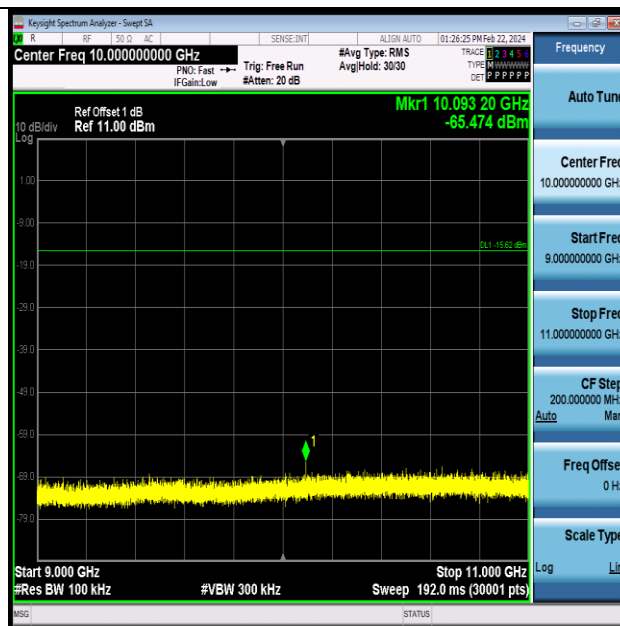
ZIGB-Ant1-2440-3000~5000-PASS



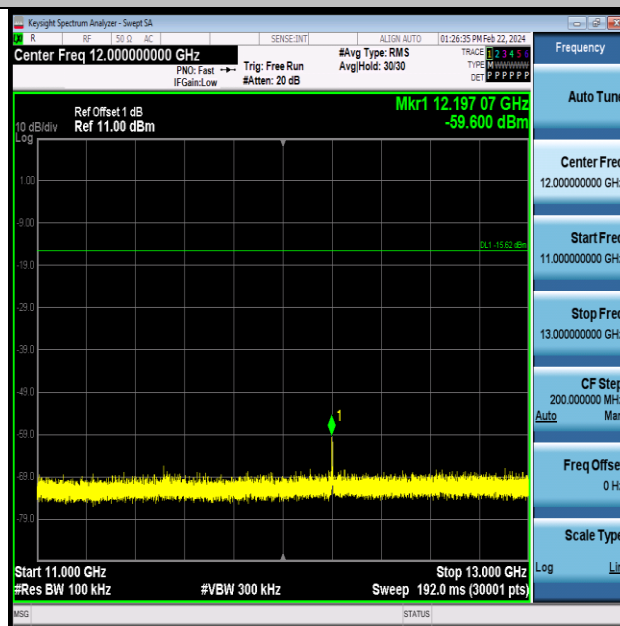
ZIGB-Ant1-2440-5000~7000-PASS



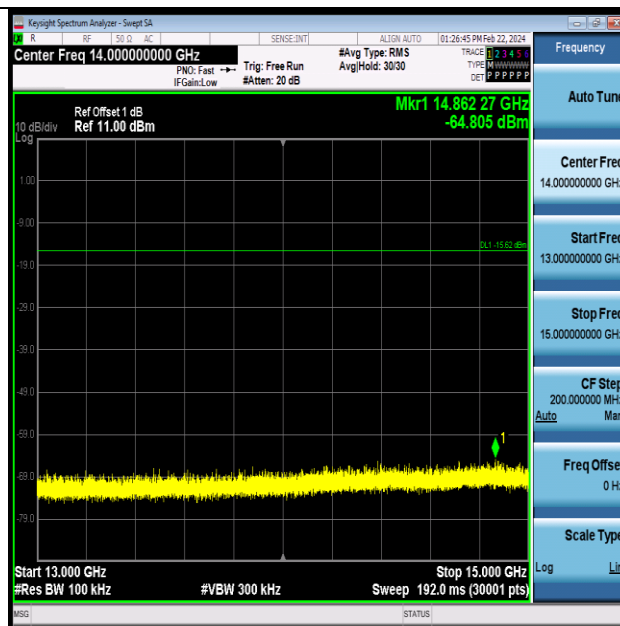
ZIGB-Ant1-2440-7000~9000-PASS



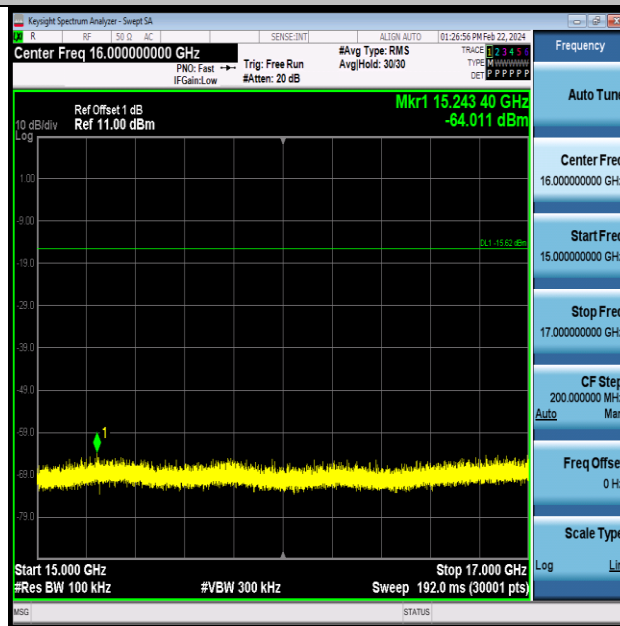
ZIGB-Ant1-2440-9000~11000-PASS



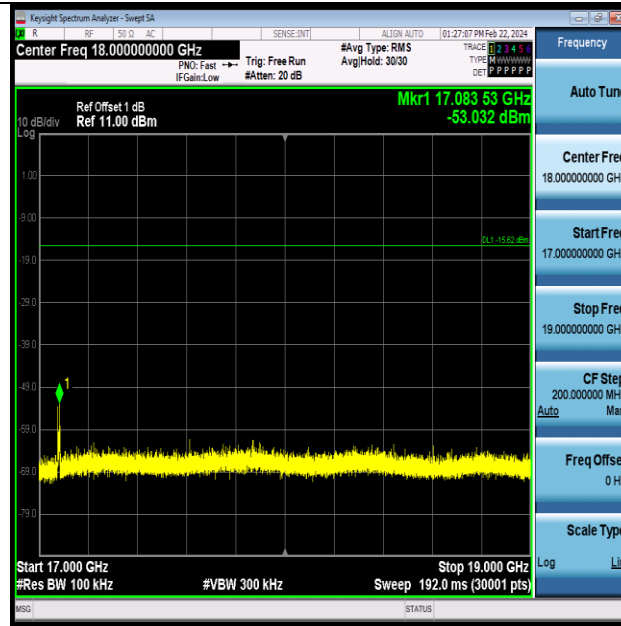
ZIGB-Ant1-2440-11000~13000-PASS



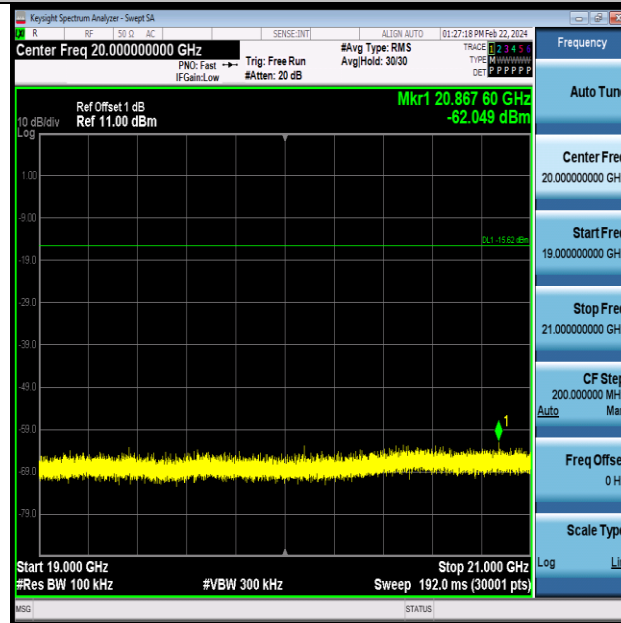
ZIGB-Ant1-2440-13000~15000-PASS



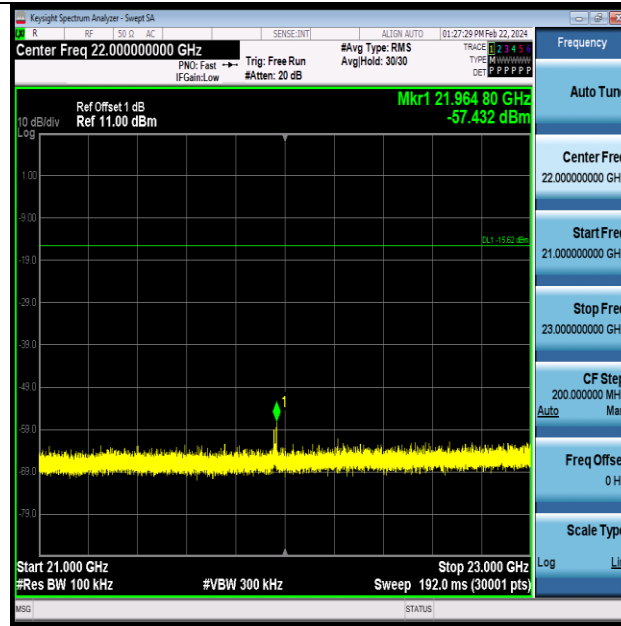
ZIGB-Ant1-2440-15000~17000-PASS



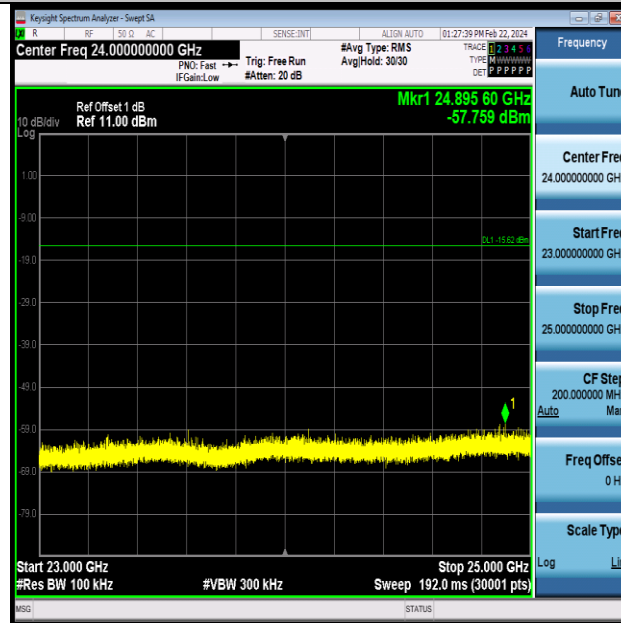
ZIGB-Ant1-2440-17000~19000-PASS



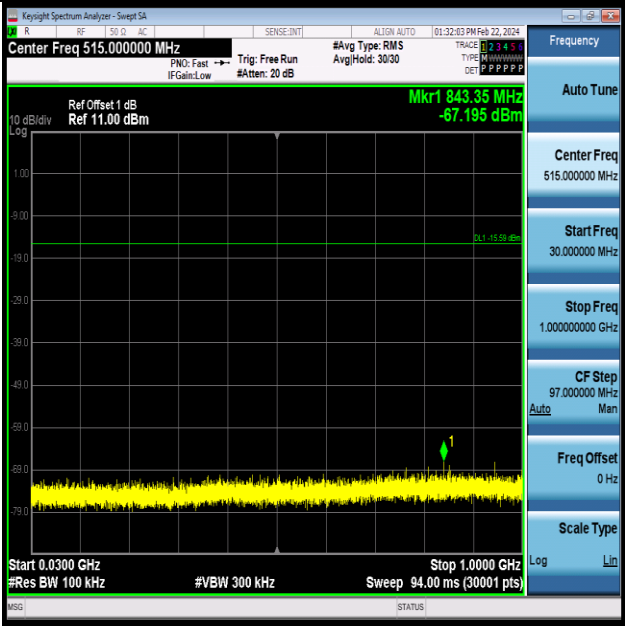
ZIGB-Ant1-2440-19000~21000-PASS



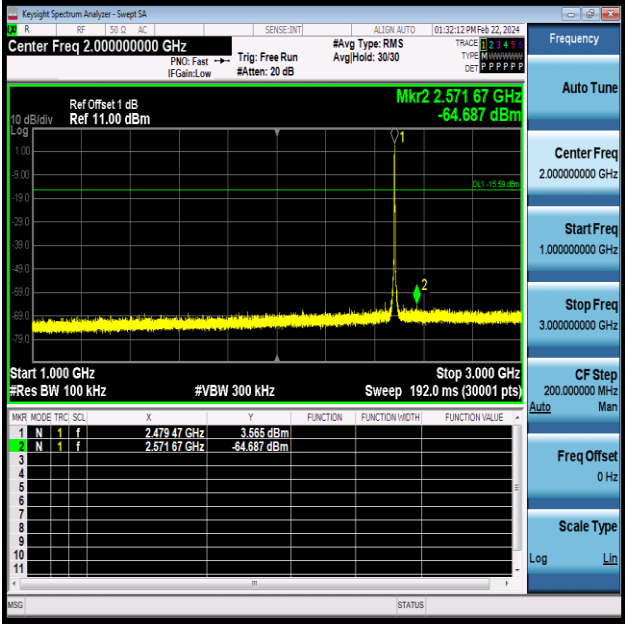
ZIGB-Ant1-2440-21000~23000-PASS



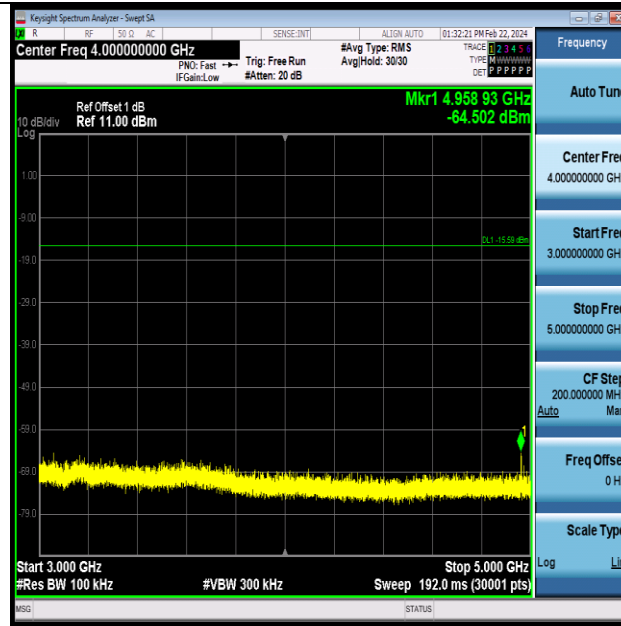
ZIGB-Ant1-2440-23000~25000-PASS



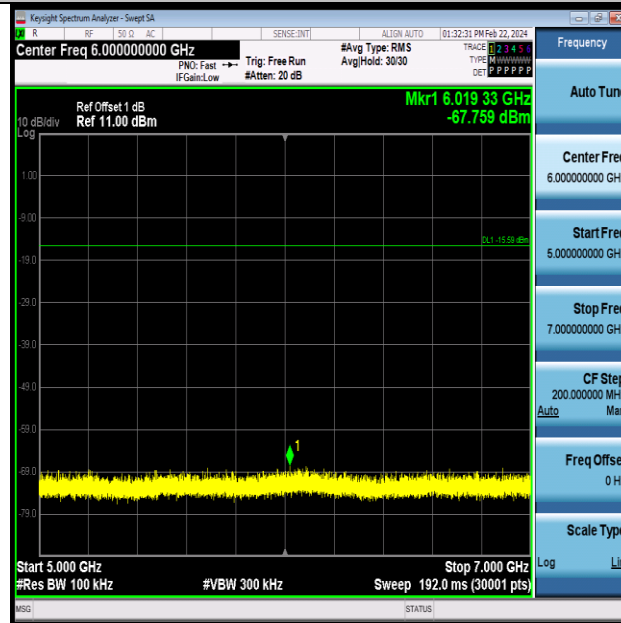
ZIGB-Ant1-2480-30~1000-PASS



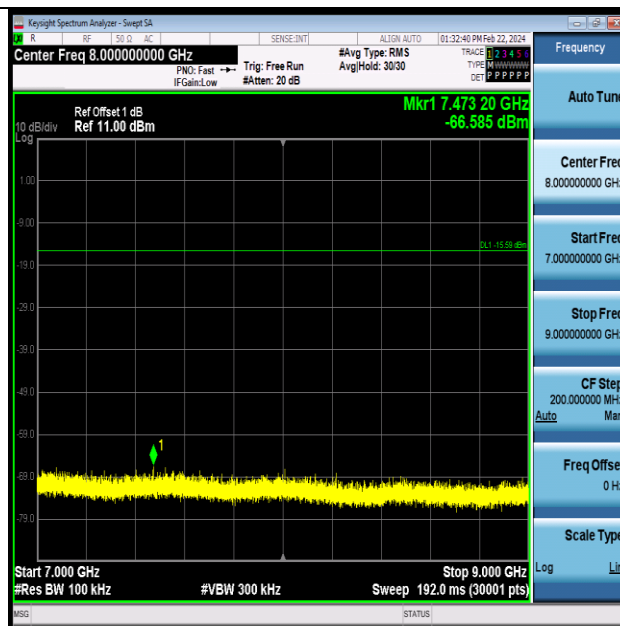
ZIGB-Ant1-2480-1000~3000-PASS



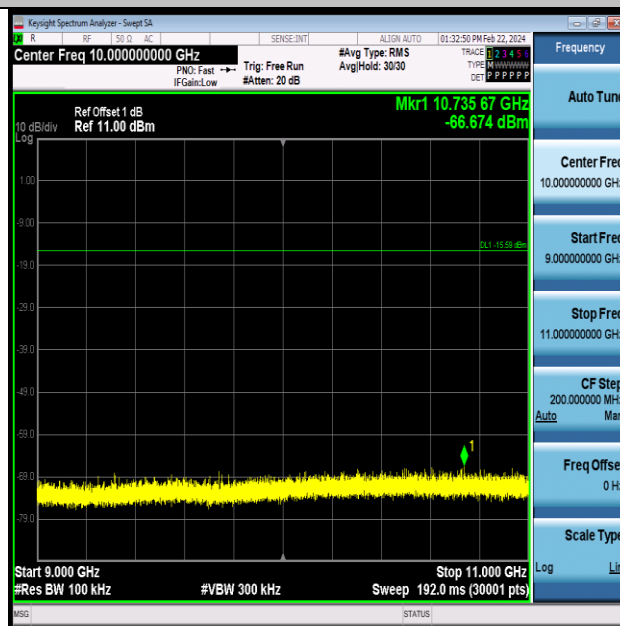
ZIGB-Ant1-2480-3000~5000-PASS



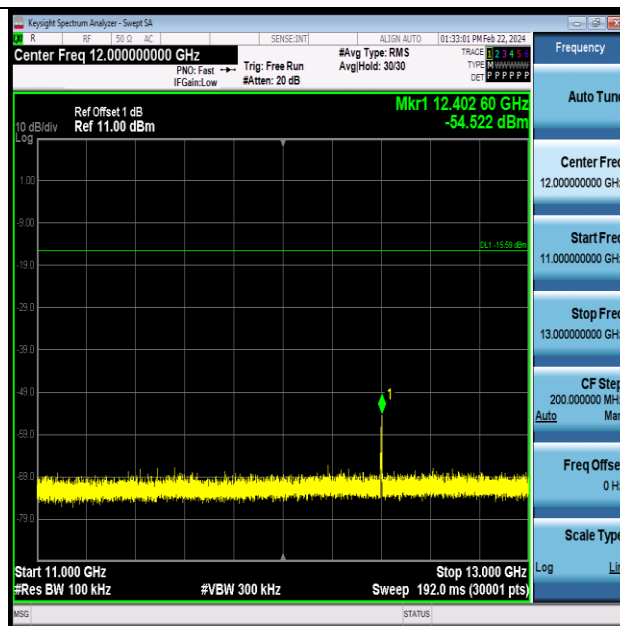
ZIGB-Ant1-2480-5000~7000-PASS



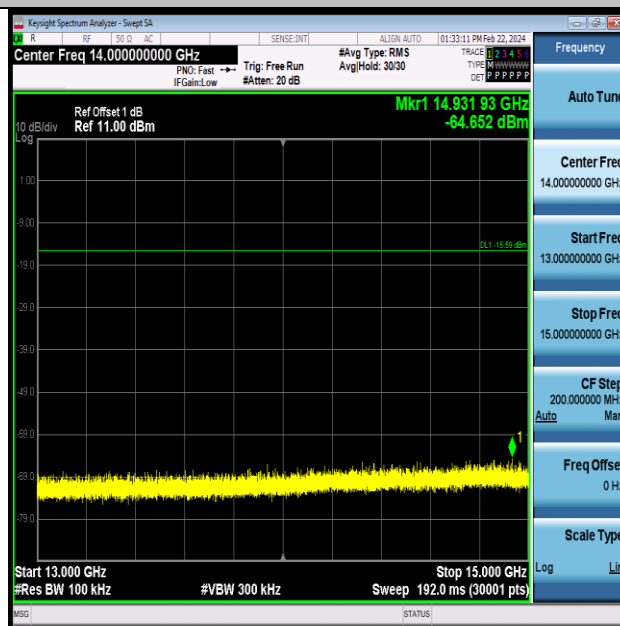
ZIGB-Ant1-2480-7000~9000-PASS



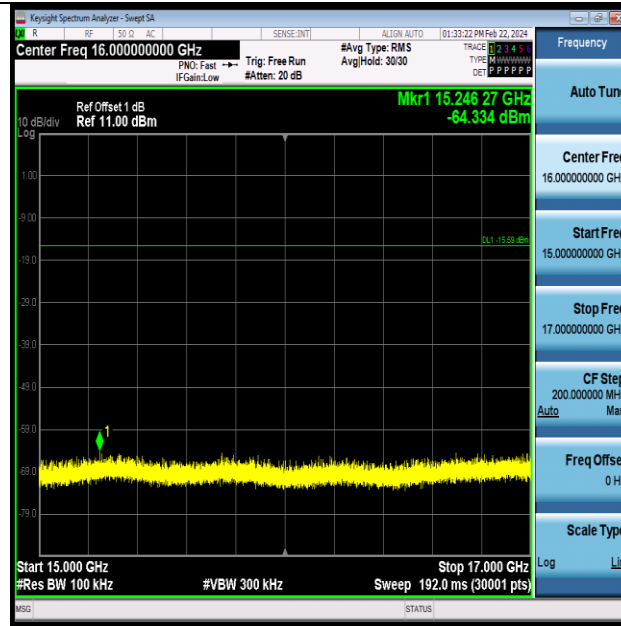
ZIGB-Ant1-2480-9000~11000-PASS



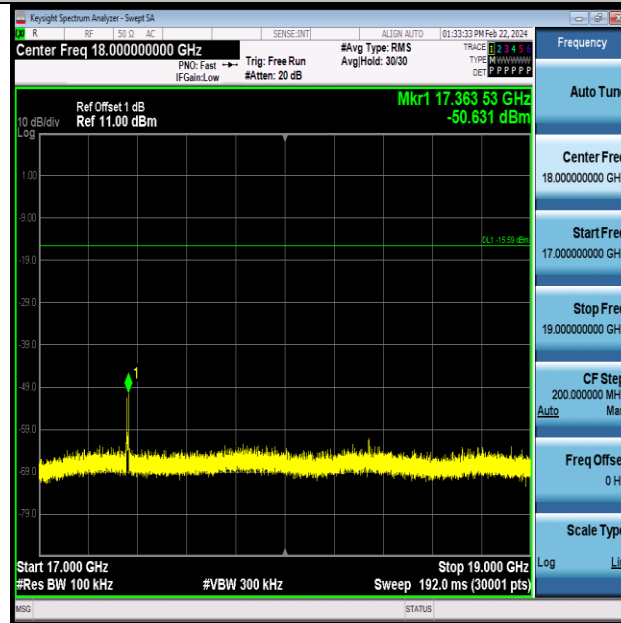
ZIGB-Ant1-2480-11000~13000-PASS



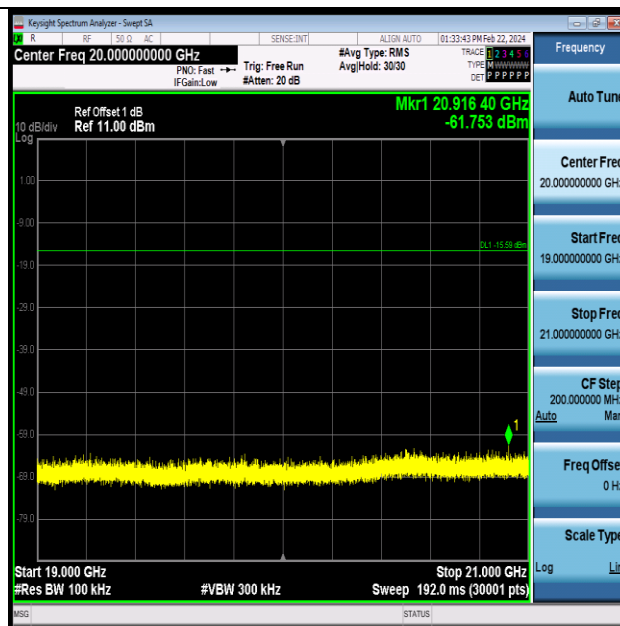
ZIGB-Ant1-2480-13000~15000-PASS



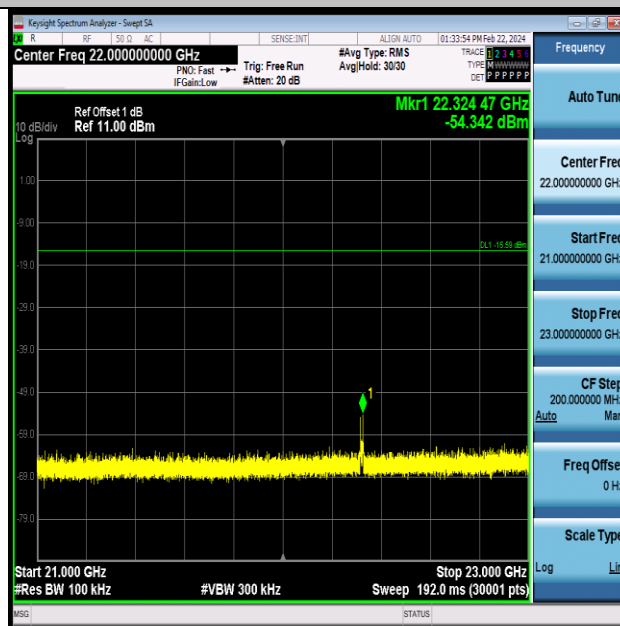
ZIGB-Ant1-2480-15000~17000-PASS



ZIGB-Ant1-2480-17000~19000-PASS



ZIGB-Ant1-2480-19000~21000-PASS



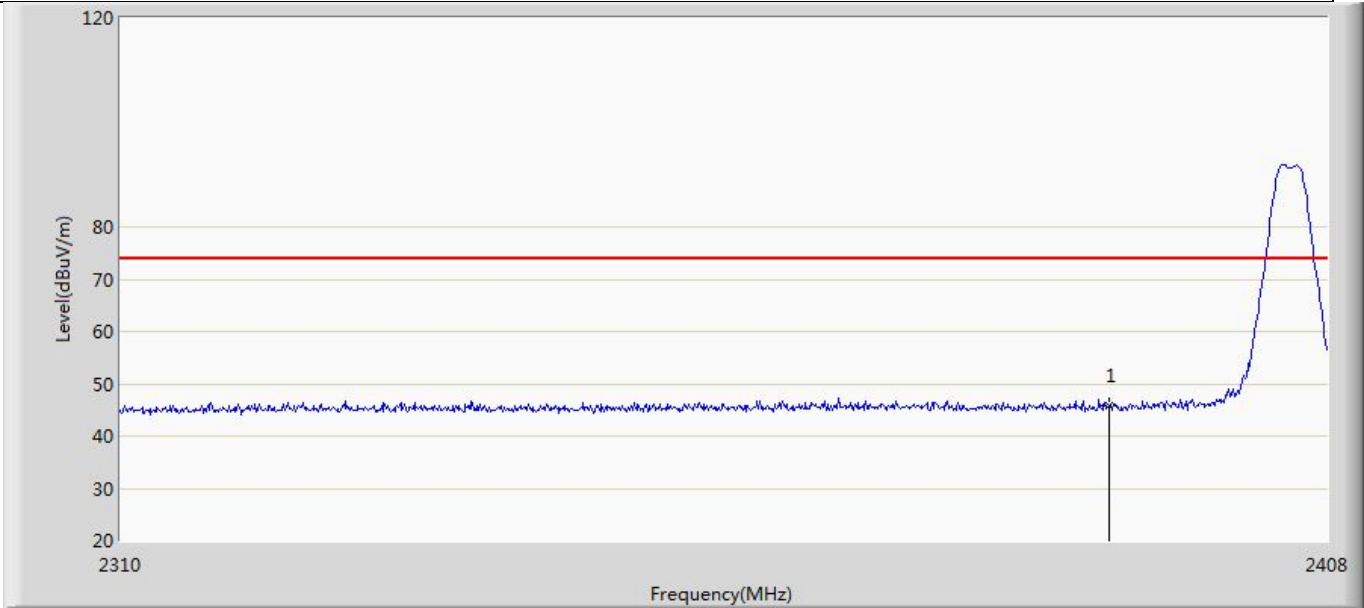
ZIGB-Ant1-2480-21000~23000-PASS



ZIGB-Ant1-2480-23000~25000-PASS

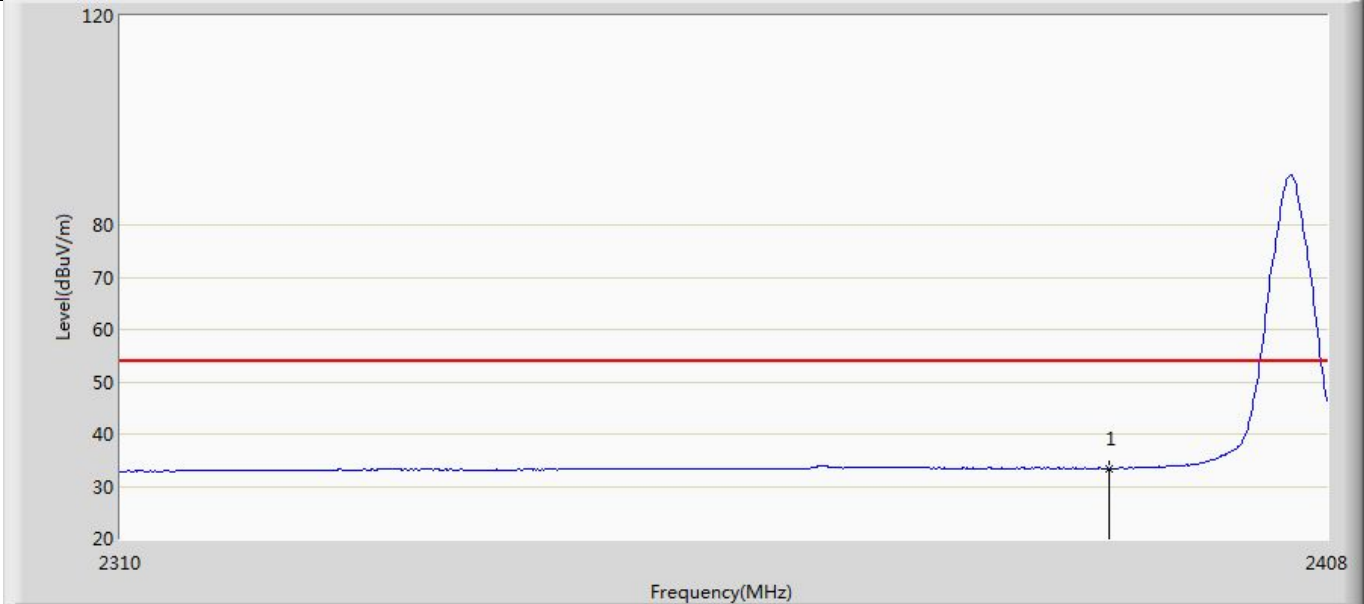
Appendix E: Radiated Emission Band Edge

Profile: 2420073R	Page No.: 33
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/22 - 09:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED lamp	Power: 120Vac/60Hz
Note: Mode 5 : Transmit at 2405MHz by Zigbee	



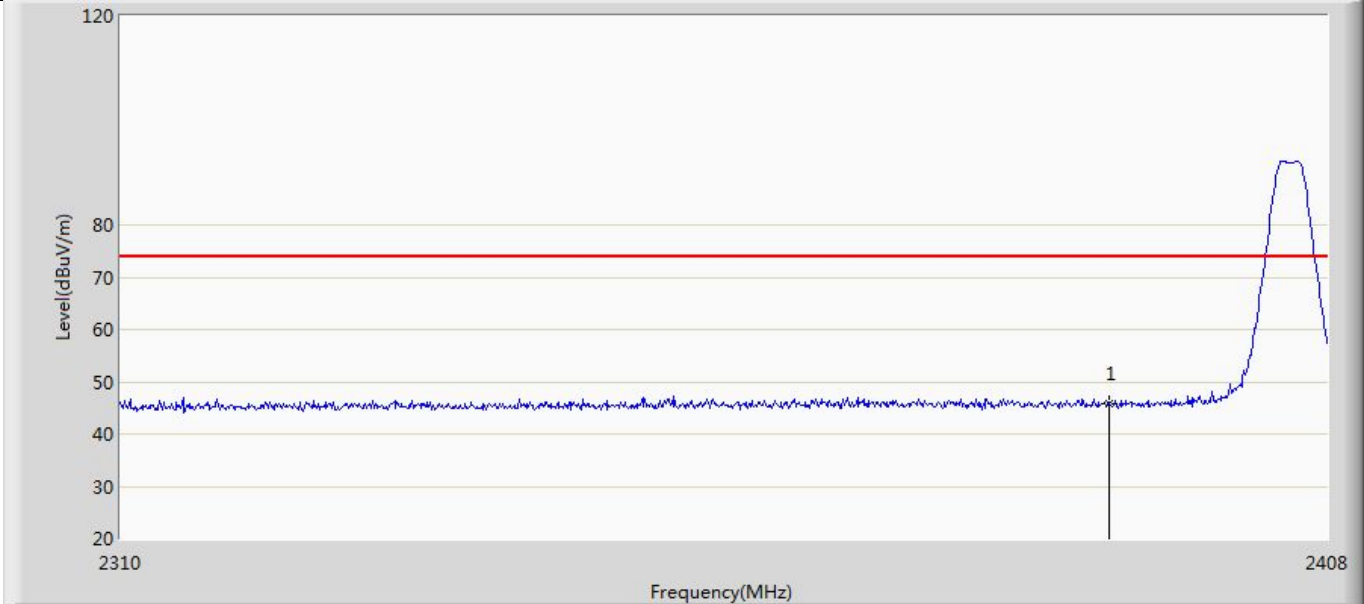
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	45.661	11.510	-28.339	74.000	34.151	PK

Profile: 2420073R	Page No.: 34
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/22 - 09:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED lamp	Power: 120Vac/60Hz
Note: Mode 5 : Transmit at 2405MHz by Zigbee	



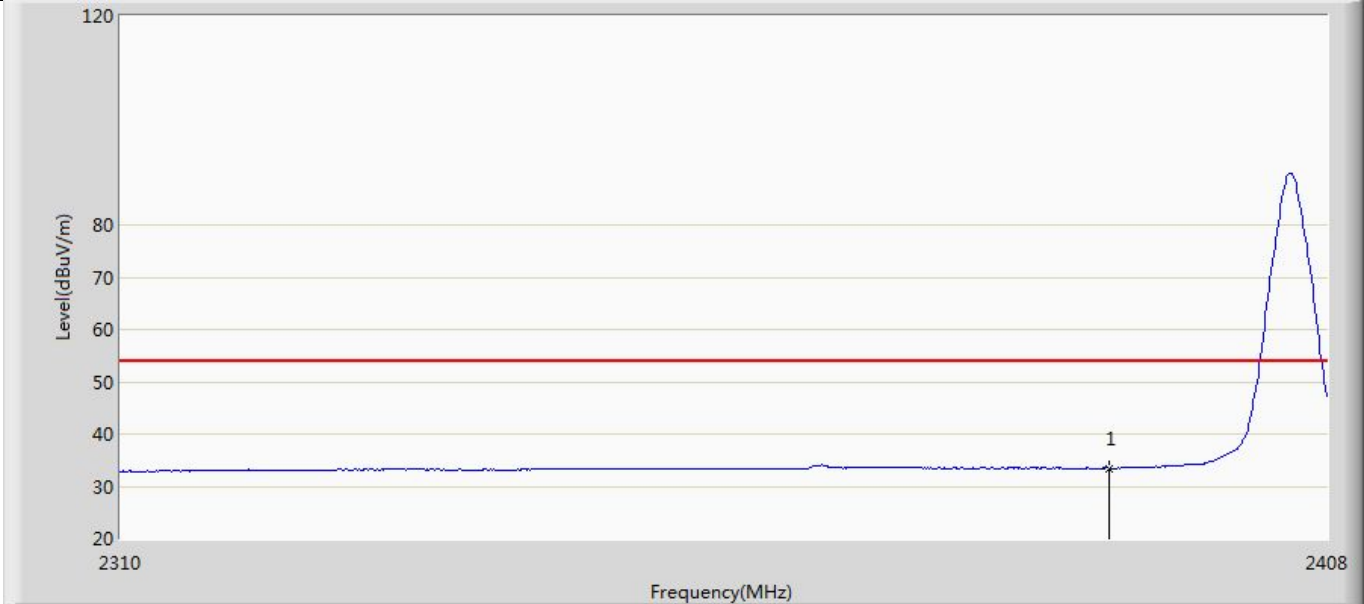
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	33.442	-0.709	-20.558	54.000	34.151	AV

Profile: 2420073R	Page No.: 35
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/22 - 09:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED lamp	Power: 120Vac/60Hz
Note: Mode 5 : Transmit at 2405MHz by Zigbee	



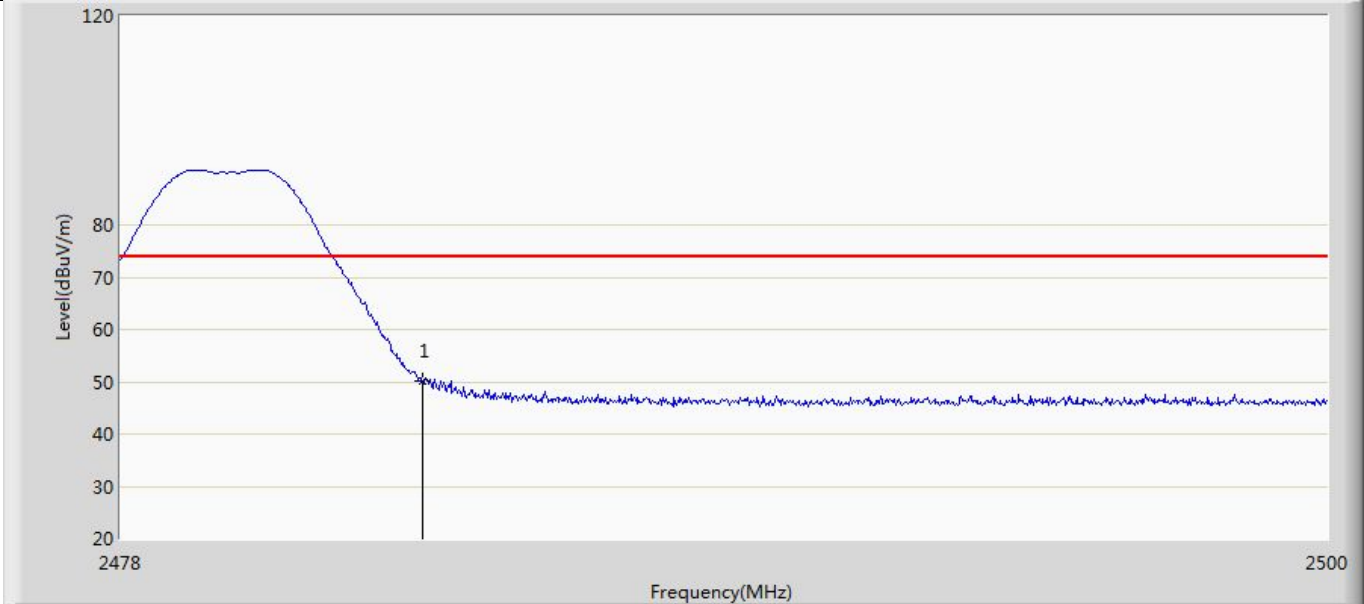
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	45.832	11.681	-28.168	74.000	34.151	PK

Profile: 2420073R	Page No.: 36
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/22 - 09:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED lamp	Power: 120Vac/60Hz
Note: Mode 5 : Transmit at 2405MHz by Zigbee	



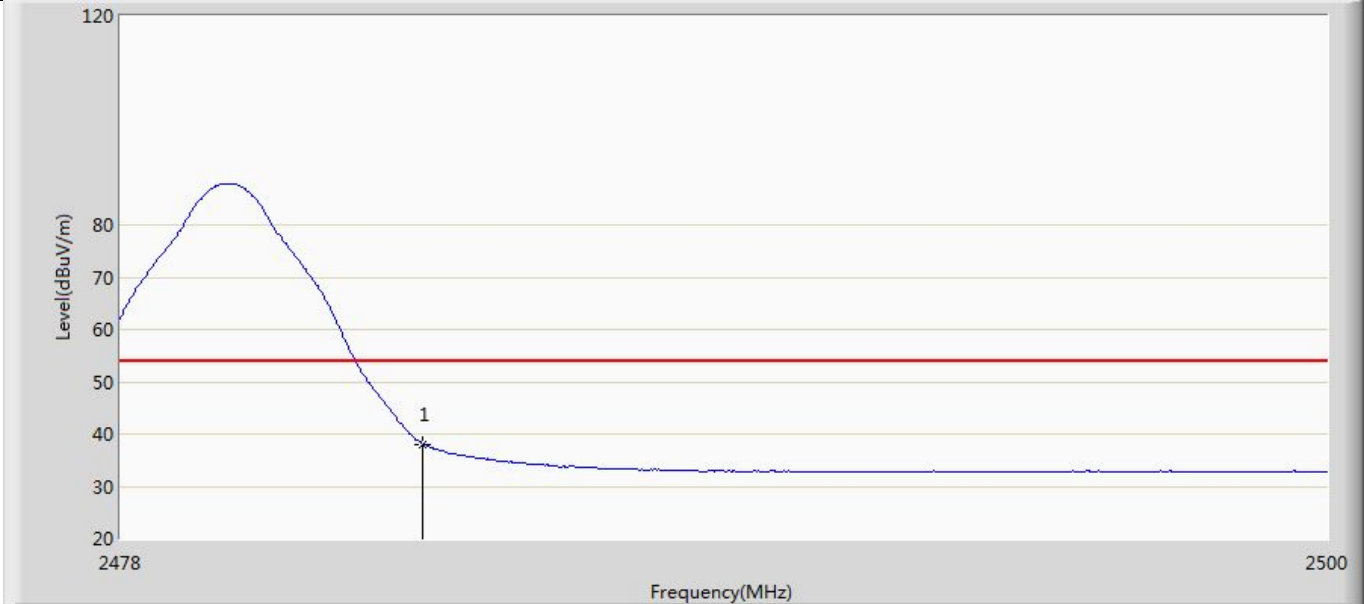
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	33.449	-0.702	-20.551	54.000	34.151	AV

Profile: 2420073R	Page No.: 37
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/22 - 09:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED lamp	Power: 120Vac/60Hz
Note: Mode 5 : Transmit at 2480MHz by Zigbee	



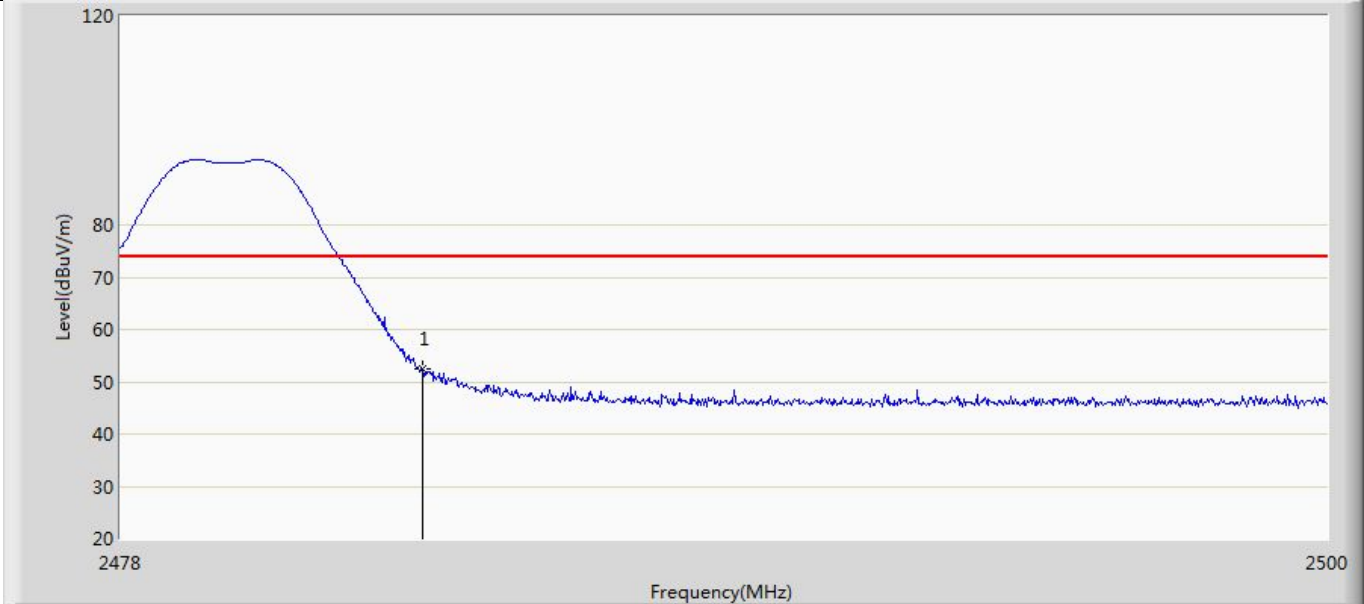
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	50.210	15.754	-23.790	74.000	34.456	PK

Profile: 2420073R	Page No.: 38
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/22 - 09:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED lamp	Power: 120Vac/60Hz
Note: Mode 5 : Transmit at 2480MHz by Zigbee	



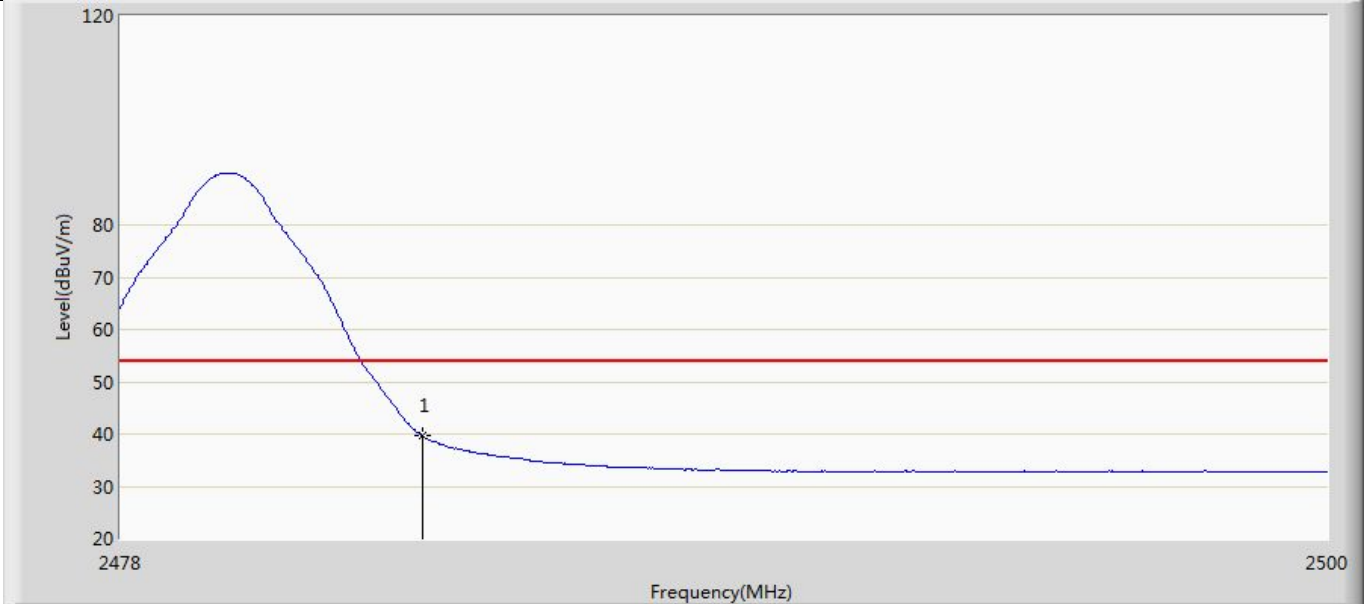
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	38.112	3.656	-15.888	54.000	34.456	AV

Profile: 2420073R	Page No.: 39
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/22 - 09:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED lamp	Power: 120Vac/60Hz
Note: Mode 5 : Transmit at 2480MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	52.498	18.042	-21.502	74.000	34.456	PK

Profile: 2420073R	Page No.: 40
Engineer: Pengchengyang	
Site: AC5	Time: 2024/02/22 - 10:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED lamp	Power: 120Vac/60Hz
Note: Mode 5 : Transmit at 2480MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	39.579	5.123	-14.421	54.000	34.456	AV

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Appendix F: Fundamental emission output power

TestMode	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
Mode 1	2405	8.63	≤30	8.95	≤36	PASS
	2440	8.58	≤30	8.90	≤36	PASS
	2480	8.42	≤30	8.74	≤36	PASS

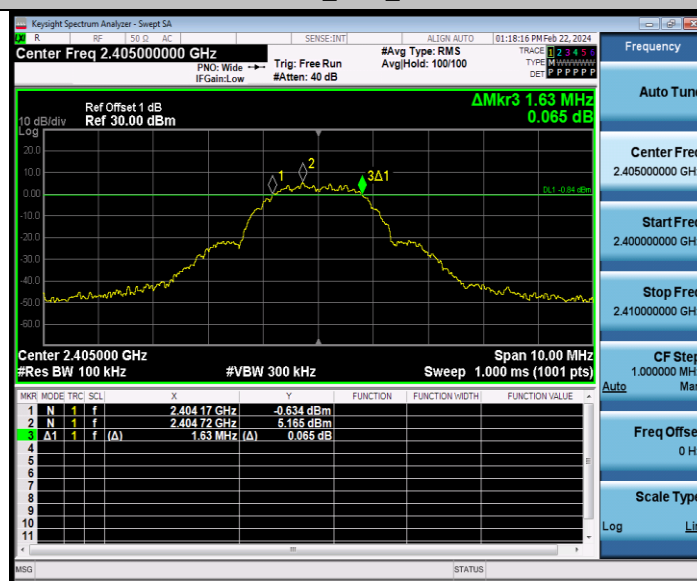
Appendix G: DTS Bandwidth

6dB bandwidth:

TestMode	Frequency[MHz]	DTS BW [MHz] (6dB bandwidth)	Limit[MHz]	Verdict
Mode 1	2405	1.630	0.5	PASS
	2440	1.650	0.5	PASS
	2480	1.680	0.5	PASS

Test Graphs:

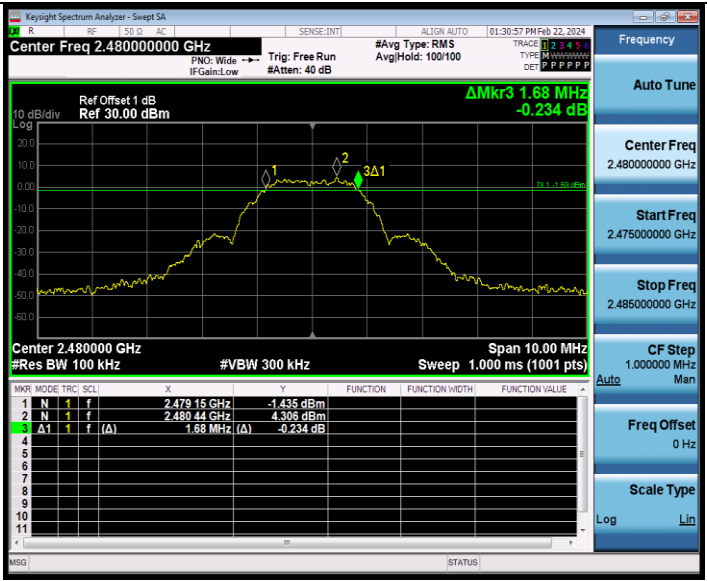
ZIGB_Ant1_2405



ZIGB_Ant1_2440



ZIGB_Ant1_2480

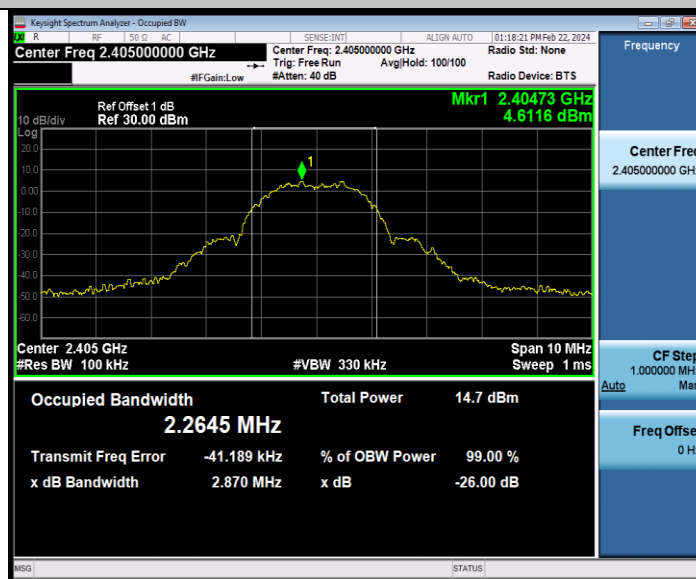


99% Occupied bandwidth:

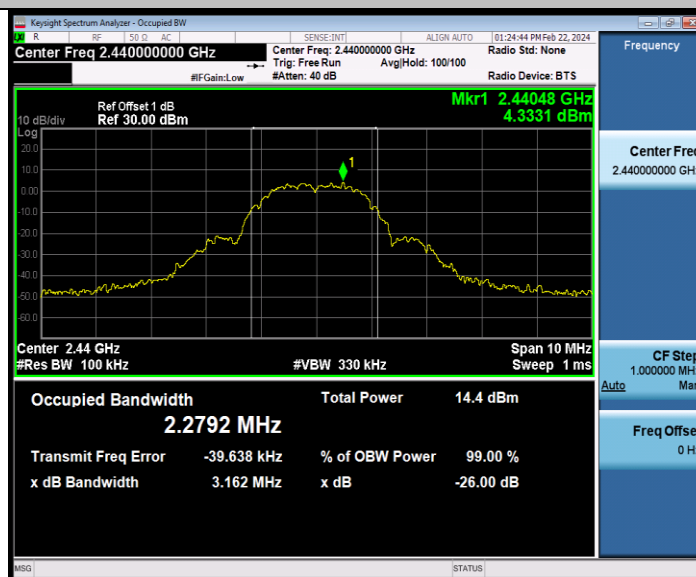
TestMode	Frequency[MHz]	99% OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Mode 1	2405	2.2645	2403.8266	2406.0911	Within band	Pass
	2440	2.2792	2438.8208	2441.1000	Within band	Pass
	2480	2.2644	2478.8276	2481.0920	Within band	Pass

Test Graphs

ZIGB_Ant1_2405



ZIGB_Ant1_2440



ZIGB_Ant1_2480



Appendix H: Power Spectral Density

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
Mode 1	2405	-6.54	≤8.00	PASS
	2440	-6.61	≤8.00	PASS
	2480	-6.63	≤8.00	PASS

Test Graphs

ZIGB_Ant1_2405



ZIGB_Ant1_2440



ZIGB_Ant1_2480



The End