

Appendix C: Test Results of Bluetooth Low Energy

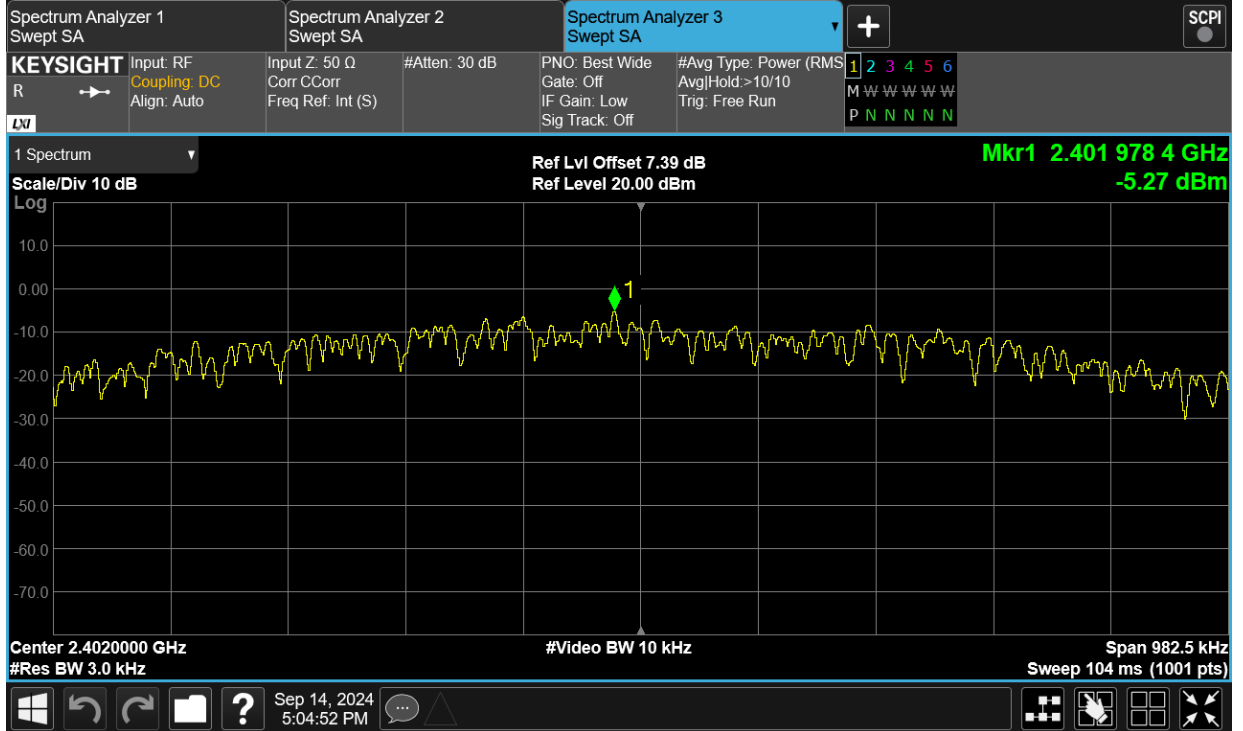
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Appendix C.1: Test Results of Conducted Power Spectral Density

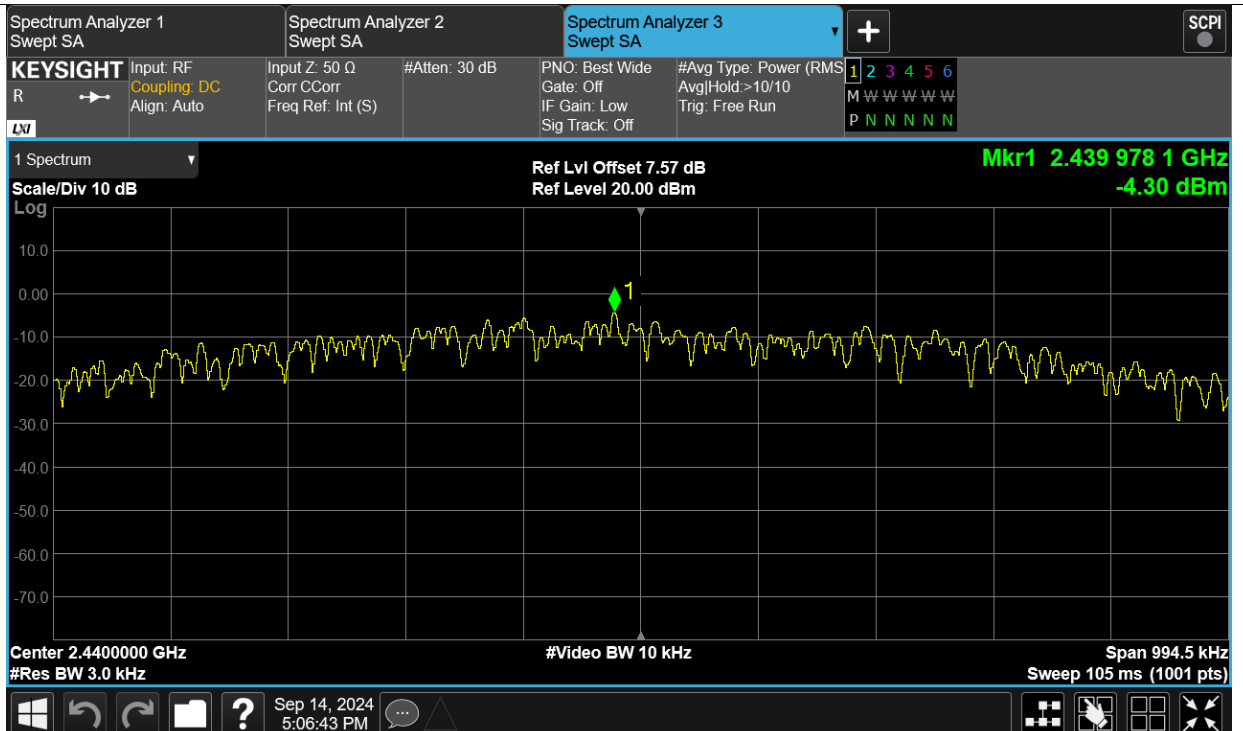
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-5.27	8	Pass
NVNT	BLE 1Mbps	2440	Ant1	-4.30	8	Pass
NVNT	BLE 1Mbps	2480	Ant1	-8.36	8	Pass
NVNT	BLE 2Mbps	2402	Ant1	-8.31	8	Pass
NVNT	BLE 2Mbps	2440	Ant1	-8.43	8	Pass
NVNT	BLE 2Mbps	2480	Ant1	-12.43	8	Pass

Test Graphs

PSD NVNT BLE 1Mbps 2402MHz Ant1



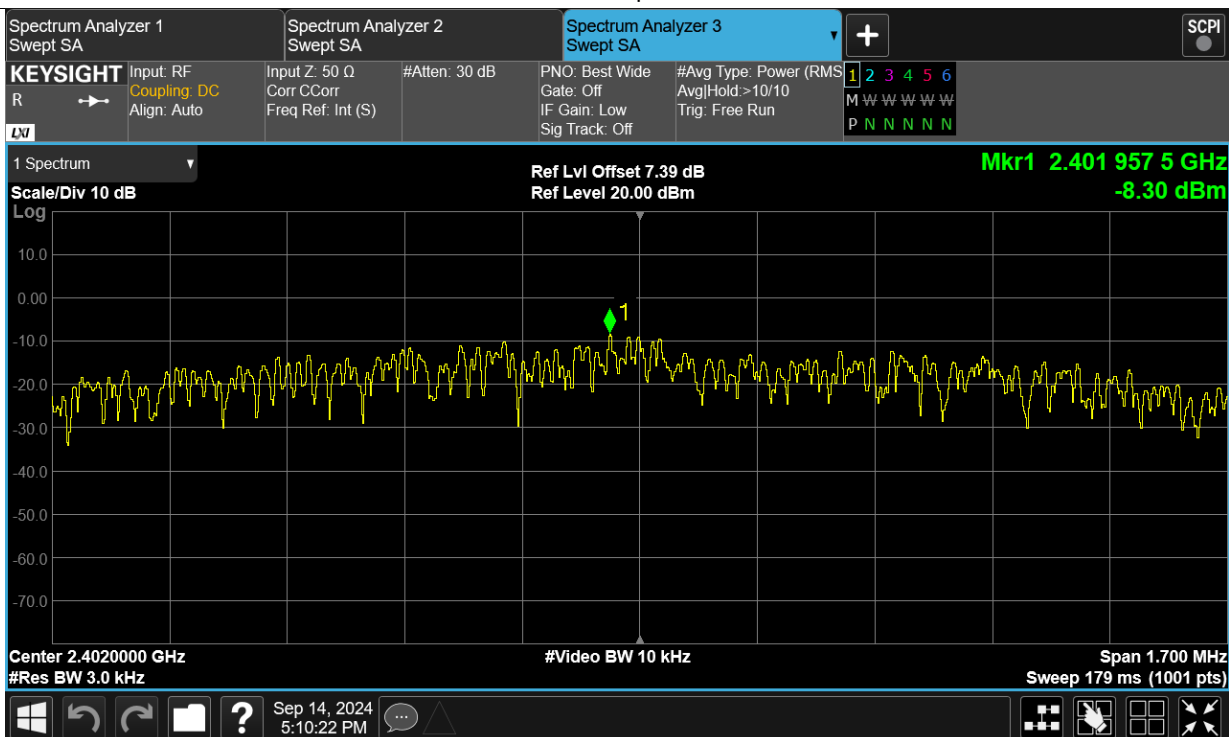
PSD NVNT BLE 1Mbps 2440MHz Ant1



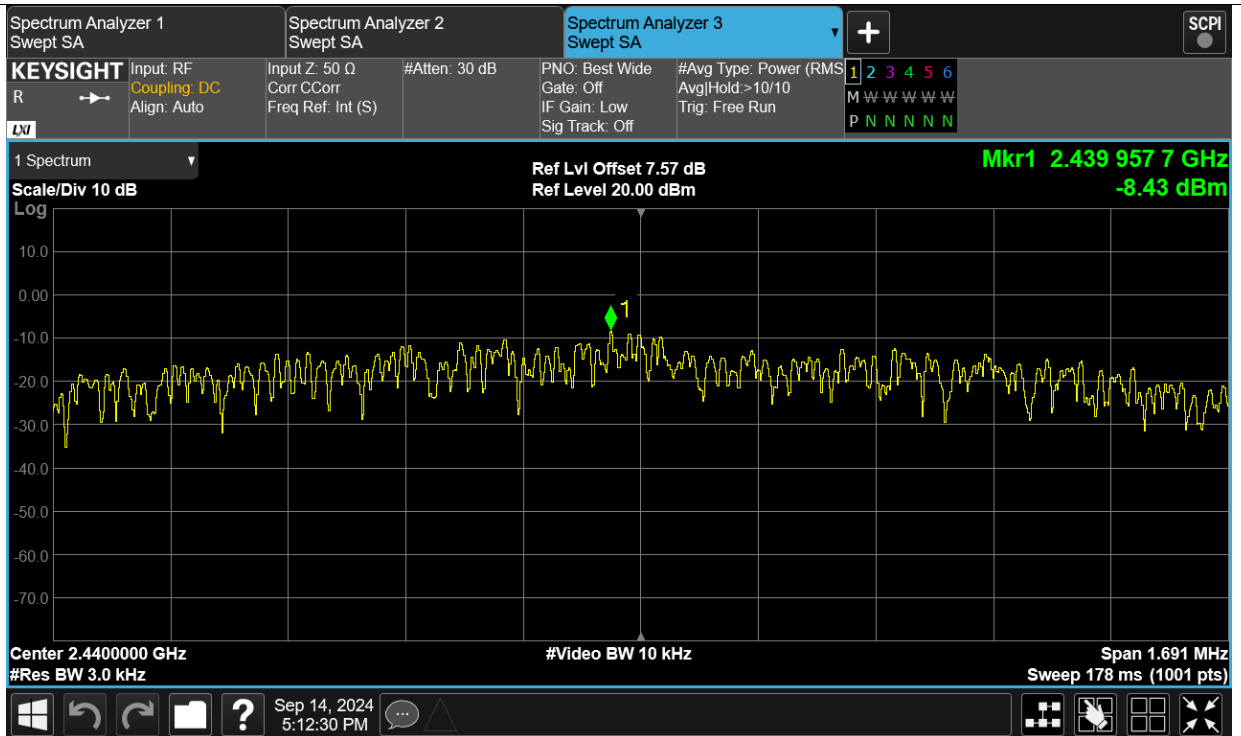
PSD NVNT BLE 1Mbps 2480MHz Ant1



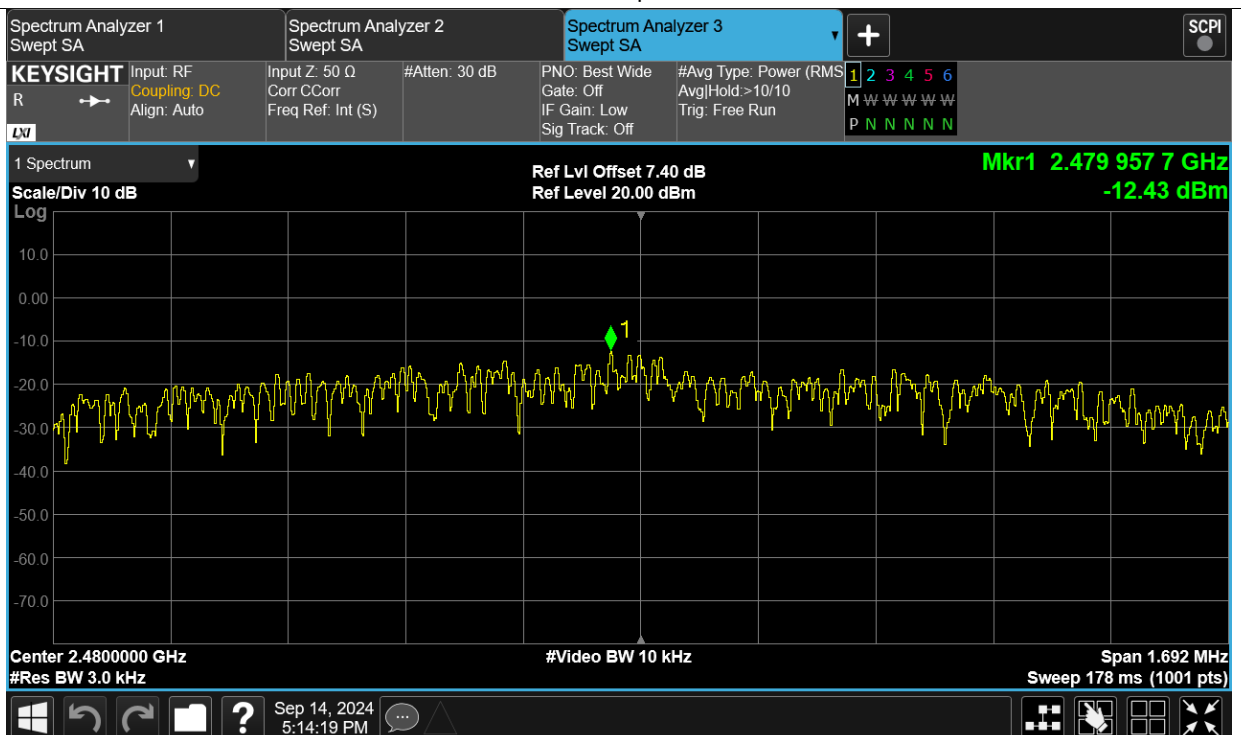
PSD NVNT BLE 2Mbps 2402MHz Ant1



PSD NVNT BLE 2Mbps 2440MHz Ant1



PSD NVNT BLE 2Mbps 2480MHz Ant1

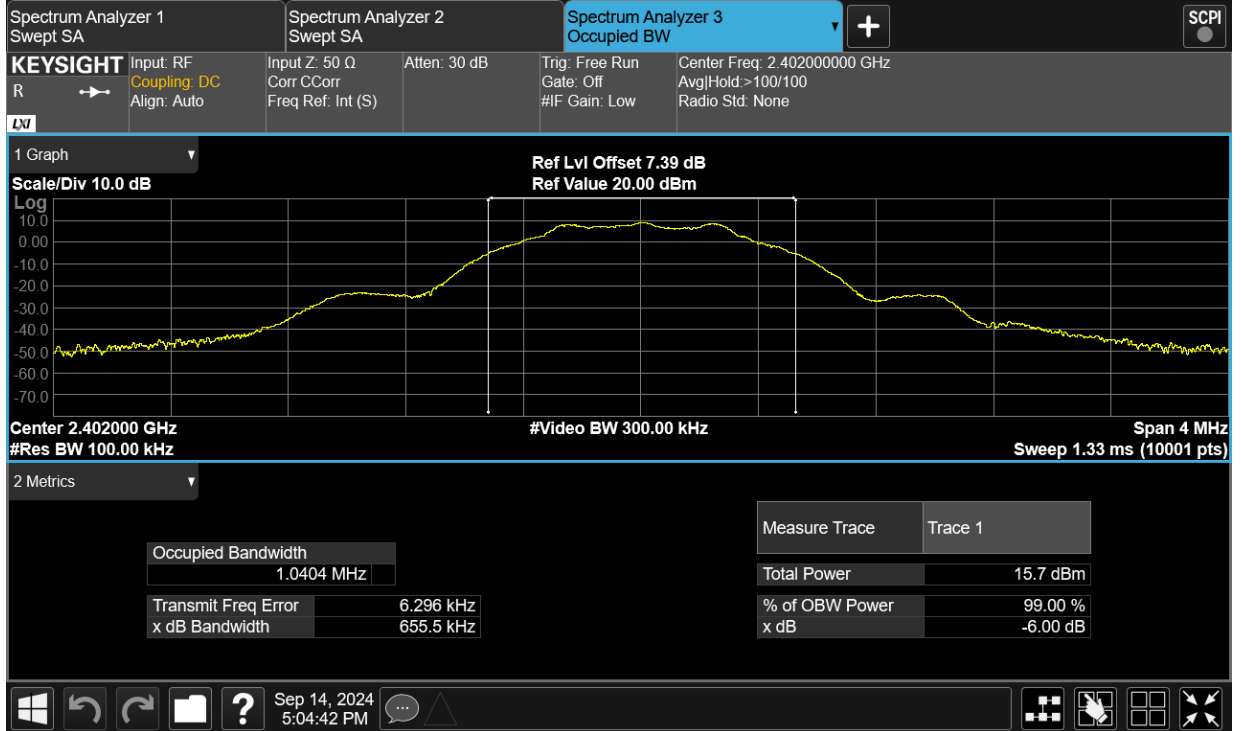


Appendix C.2: Test Results of 6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	0.6555	0.5	Pass
NVNT	BLE 1Mbps	2440	Ant1	0.6632	0.5	Pass
NVNT	BLE 1Mbps	2480	Ant1	0.6663	0.5	Pass
NVNT	BLE 2Mbps	2402	Ant1	1.133	0.5	Pass
NVNT	BLE 2Mbps	2440	Ant1	1.127	0.5	Pass
NVNT	BLE 2Mbps	2480	Ant1	1.128	0.5	Pass

Test Graphs

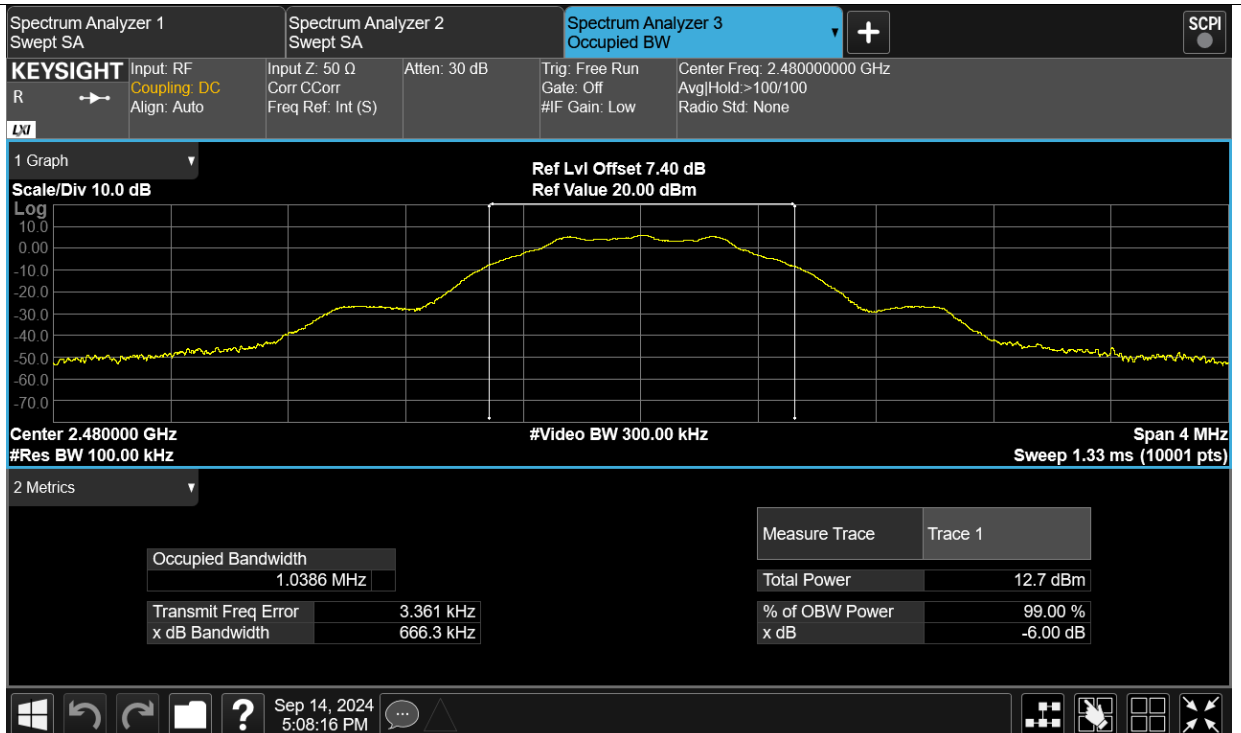
-6dB Bandwidth NVNT BLE 1Mbps 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1Mbps 2440MHz Ant1



-6dB Bandwidth NVNT BLE 1Mbps 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2Mbps 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2Mbps 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2Mbps 2480MHz Ant1



Appendix C.3: Test Results of 99% Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1Mbps	2402	Ant1	1.0309
NVNT	BLE 1Mbps	2440	Ant1	1.0292
NVNT	BLE 1Mbps	2480	Ant1	1.0270
NVNT	BLE 2Mbps	2402	Ant1	2.0136
NVNT	BLE 2Mbps	2440	Ant1	2.011
NVNT	BLE 2Mbps	2480	Ant1	2.0085

Test Graphs

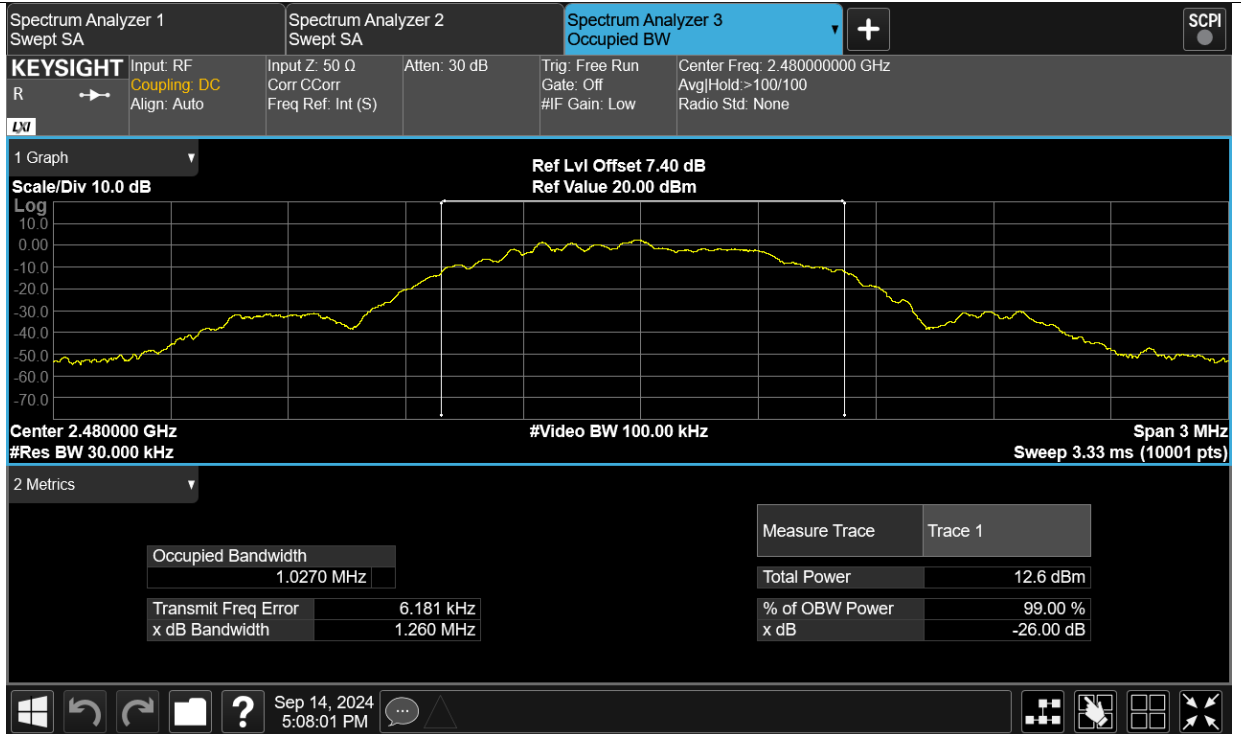
OBW NVNT BLE 1Mbps 2402MHz Ant1



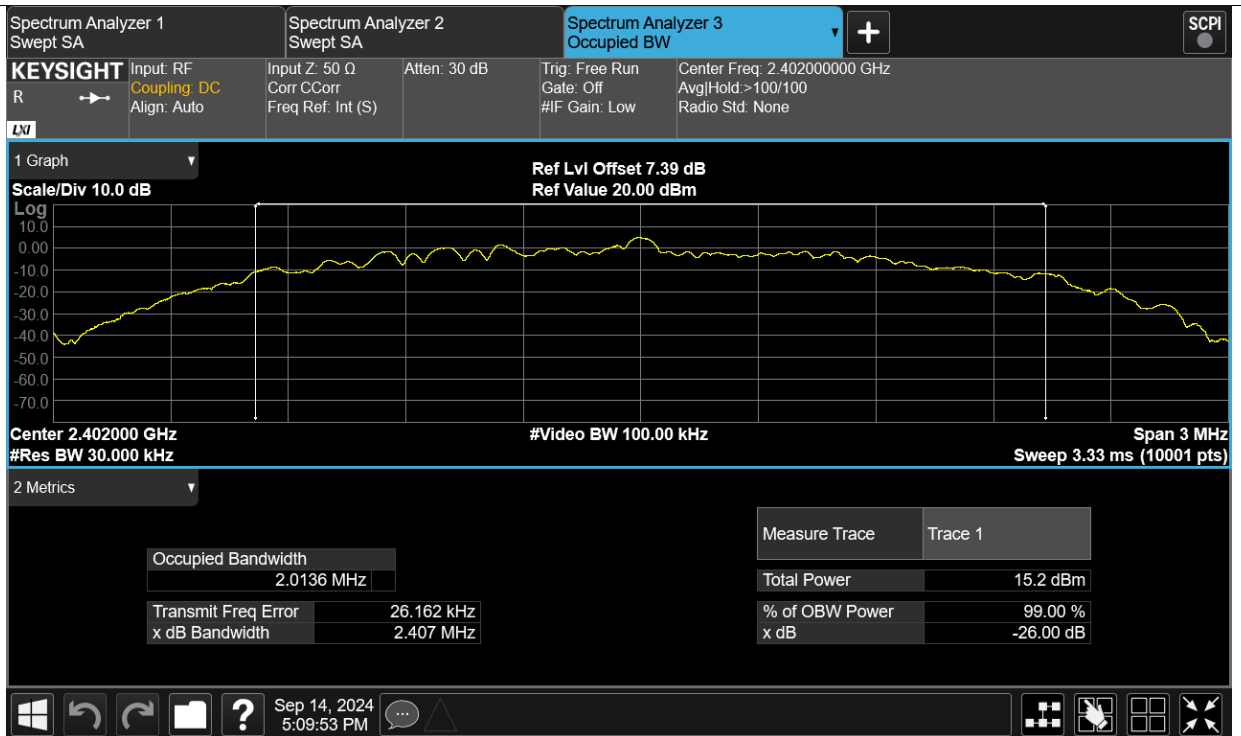
OBW NVNT BLE 1Mbps 2440MHz Ant1



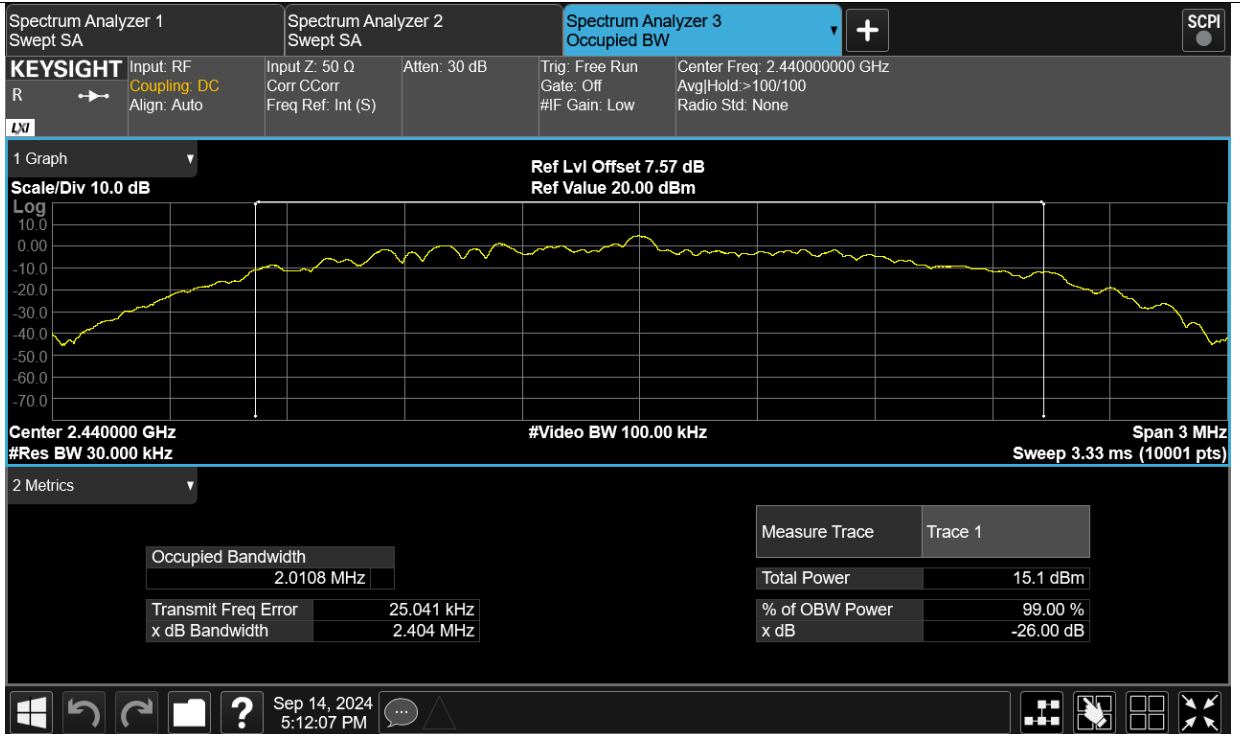
OBW NVNT BLE 1Mbps 2480MHz Ant1



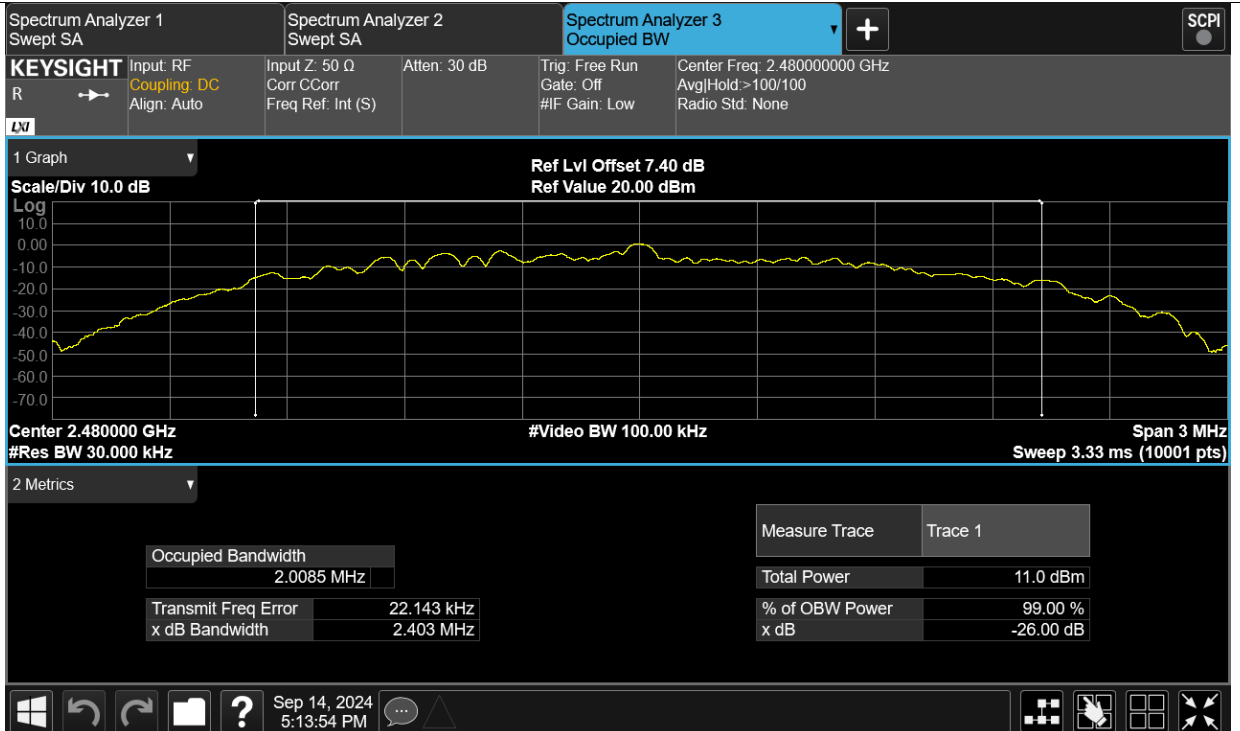
OBW NVNT BLE 2Mbps 2402MHz Ant1



OBW NVNT BLE 2Mbps 2440MHz Ant1



OBW NVNT BLE 2Mbps 2480MHz Ant1



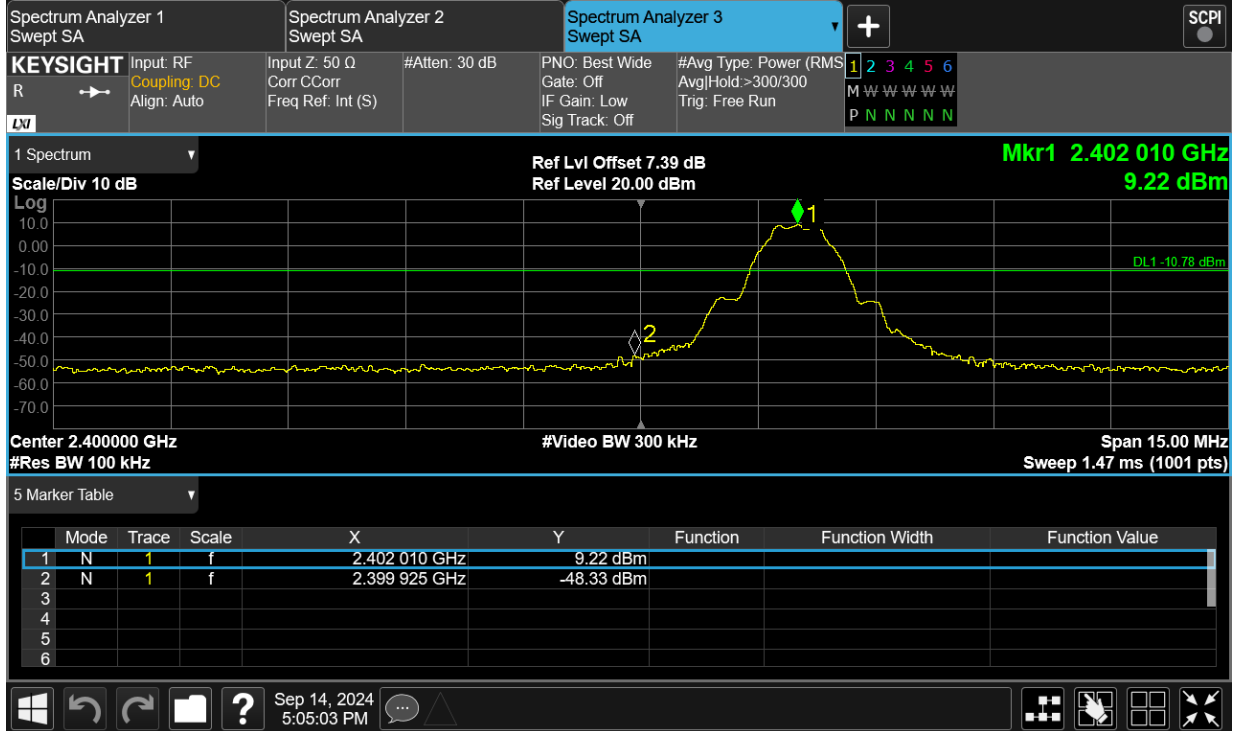
Appendix C.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Band Edge

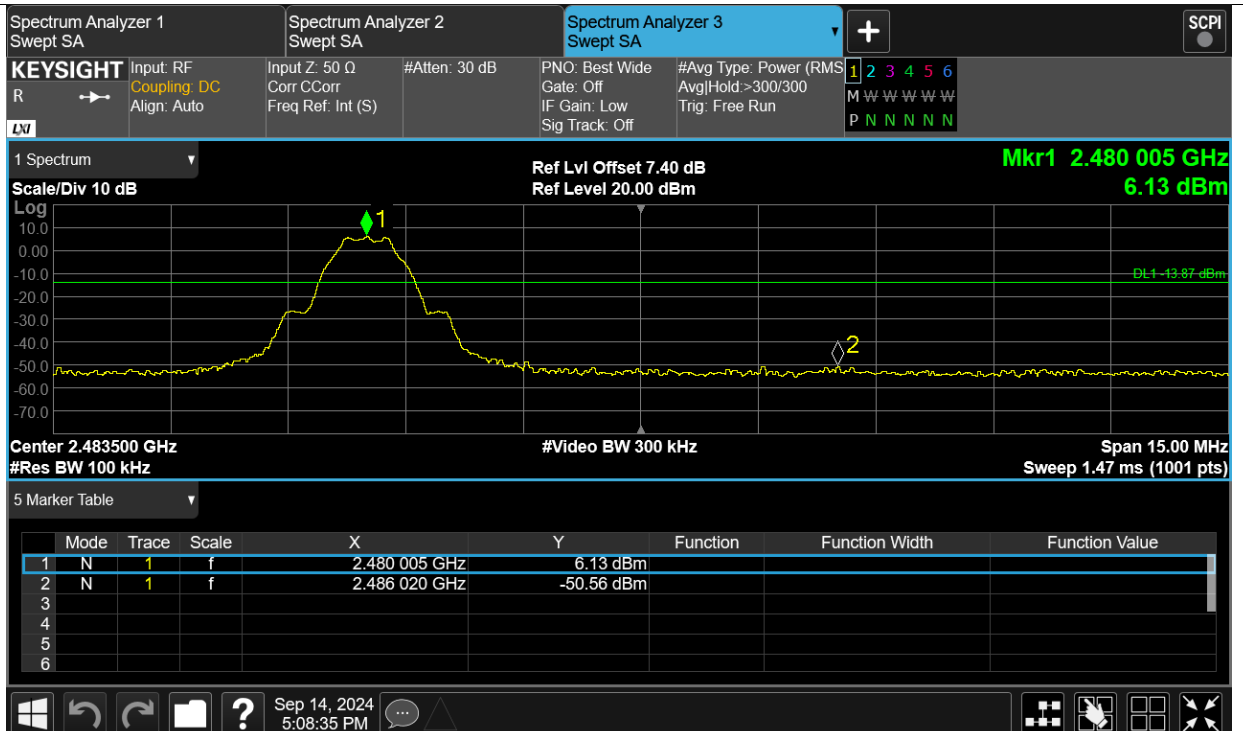
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-57.54	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-56.68	-20	Pass
NVNT	BLE 2Mbps	2402	Ant1	-39.71	-20	Pass
NVNT	BLE 2Mbps	2480	Ant1	-56.29	-20	Pass

Test Graphs

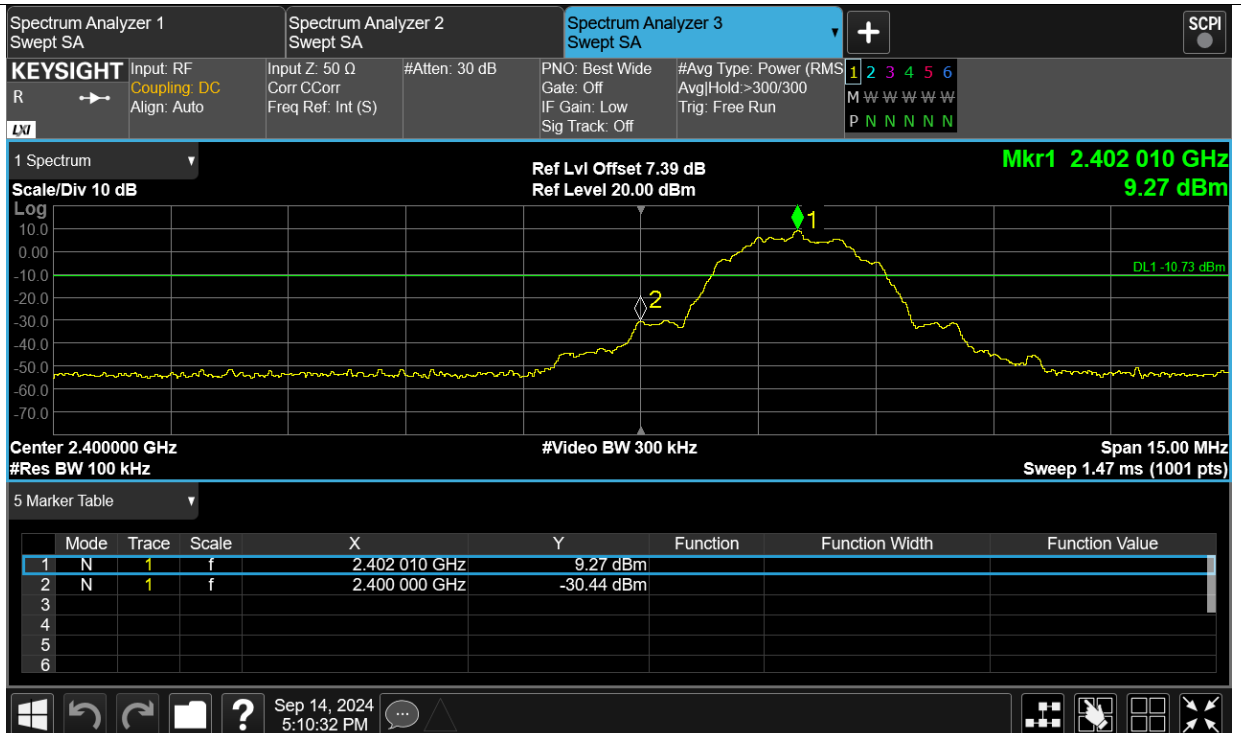
Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Emission



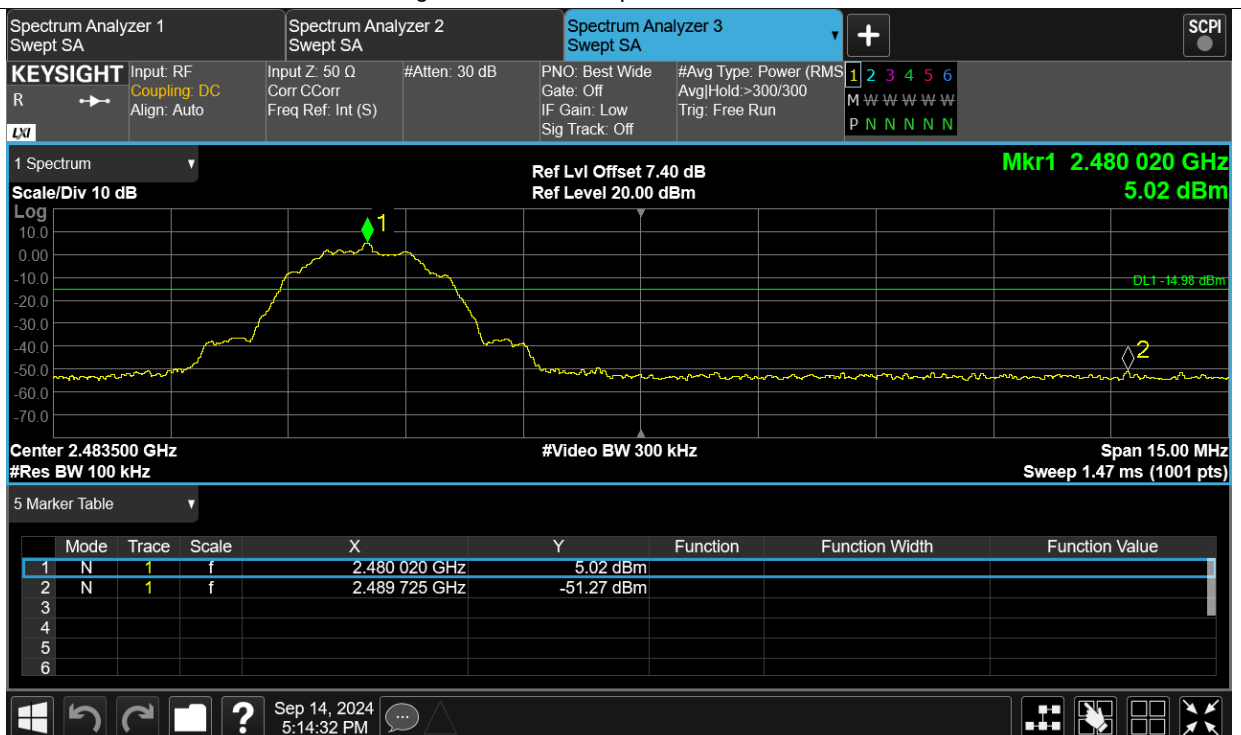
Band Edge NVNT BLE 1Mbps 2480MHz Ant1 Emission



Band Edge NVNT BLE 2Mbps 2402MHz Ant1 Emission



Band Edge NVNT BLE 2Mbps 2480MHz Ant1 Emission

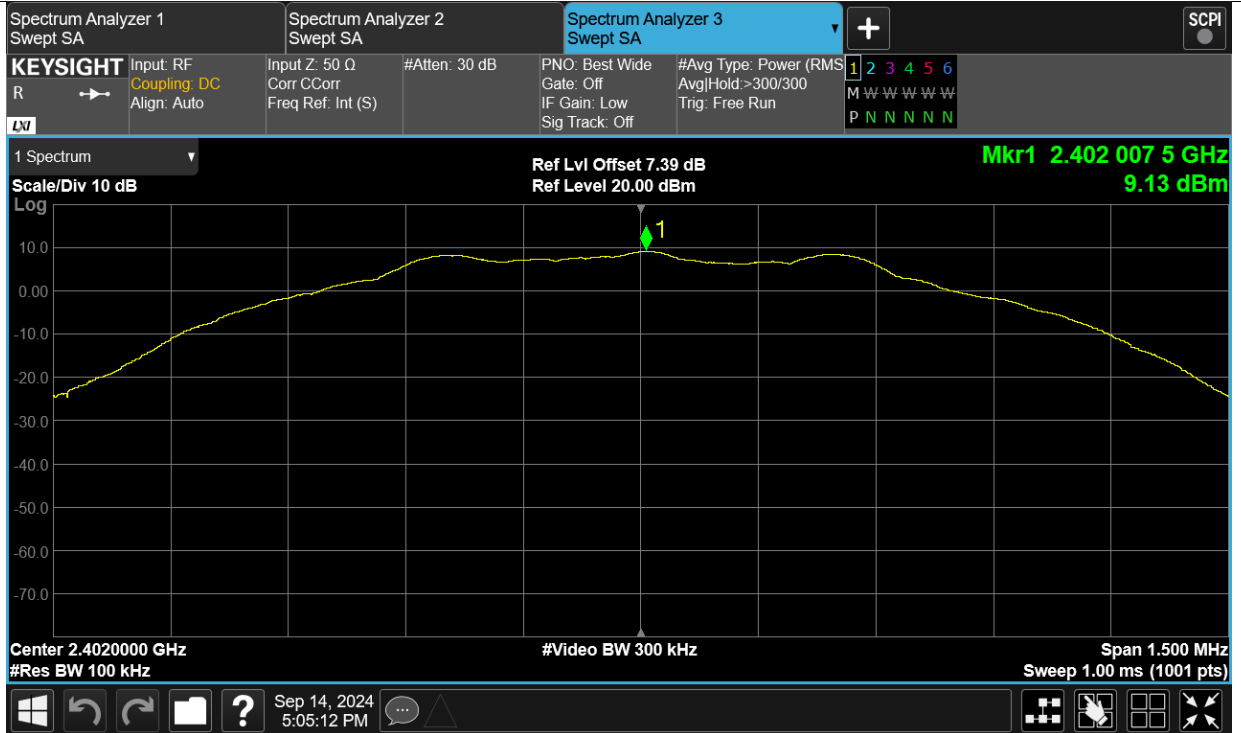


Conducted Spurious Emission

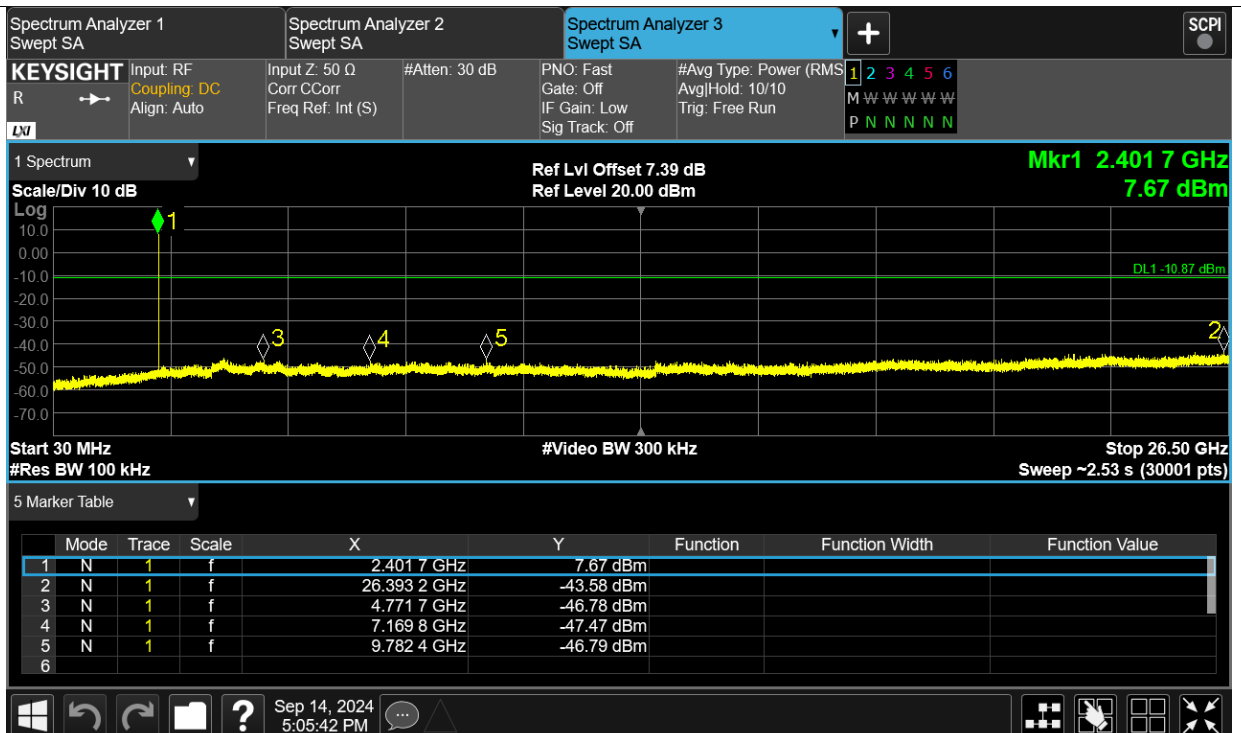
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-52.7	-20	Pass
NVNT	BLE 1Mbps	2440	Ant1	-53.32	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-48.83	-20	Pass
NVNT	BLE 2Mbps	2402	Ant1	-52.77	-20	Pass
NVNT	BLE 2Mbps	2440	Ant1	-52.47	-20	Pass
NVNT	BLE 2Mbps	2480	Ant1	-49.14	-20	Pass

Test Graphs

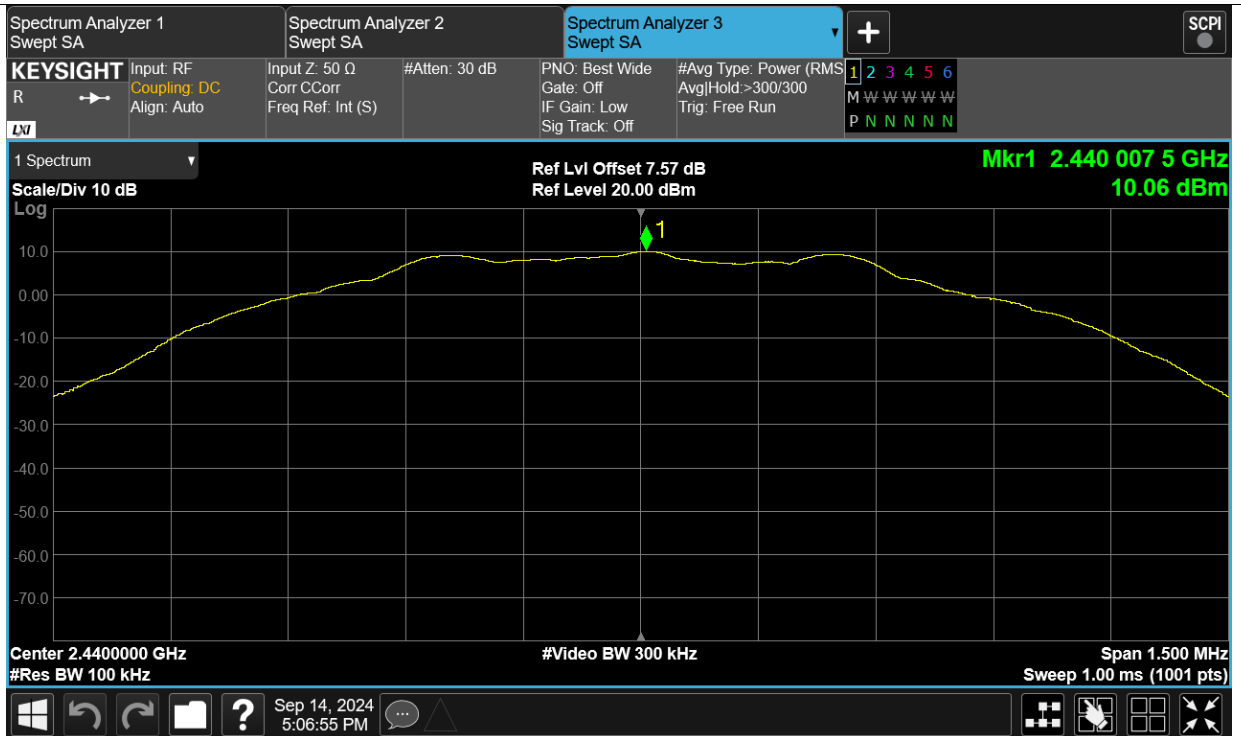
Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Ref



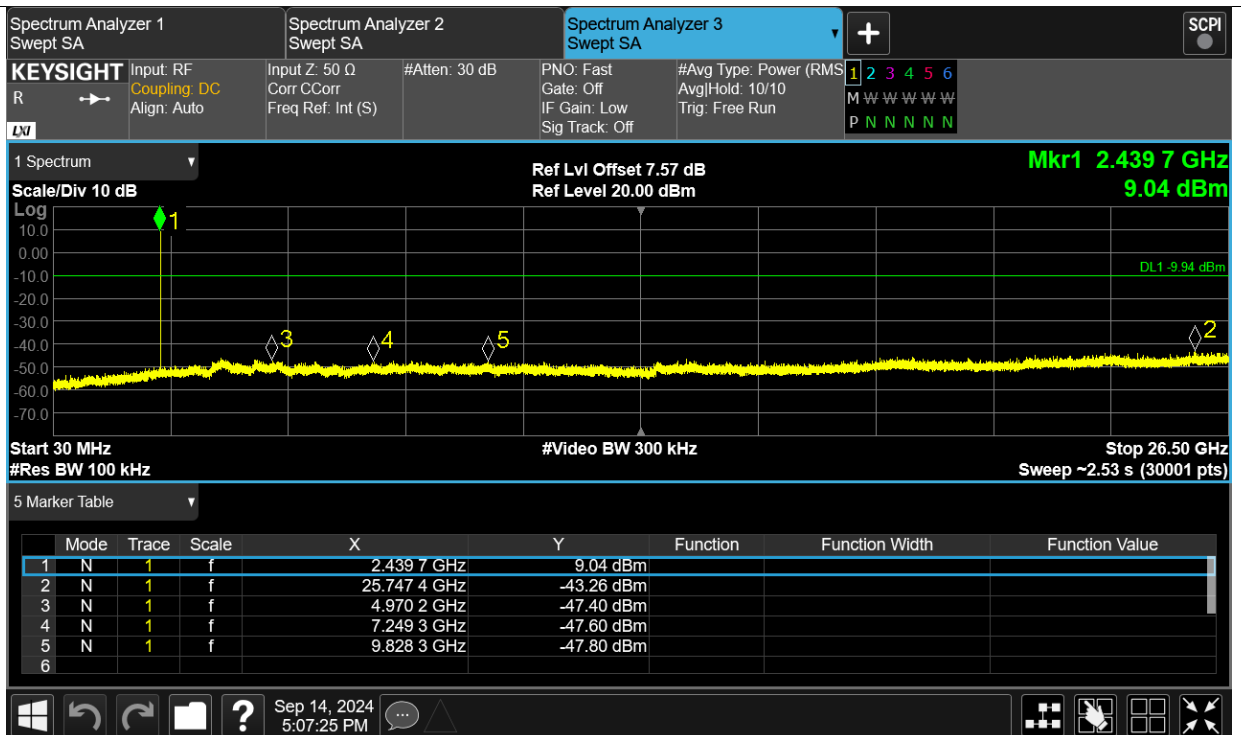
Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Emission



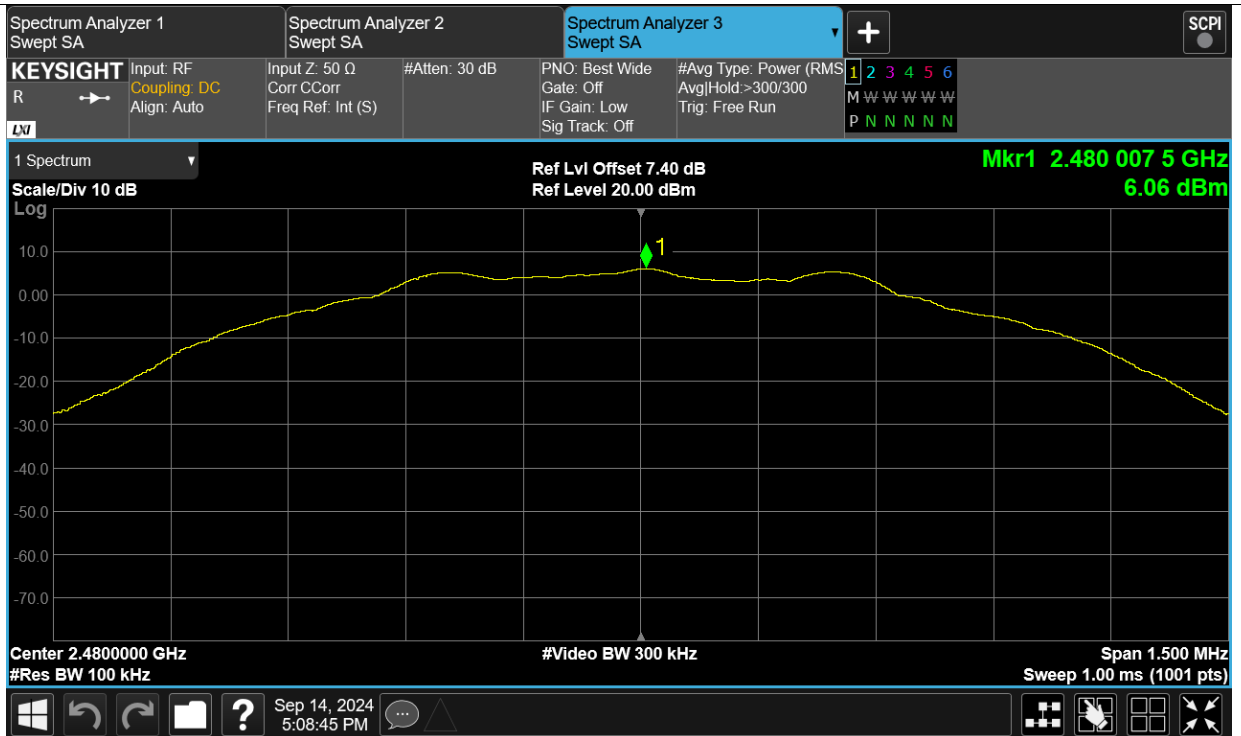
Tx. Spurious NVNT BLE 1Mbps 2440MHz Ant1 Ref



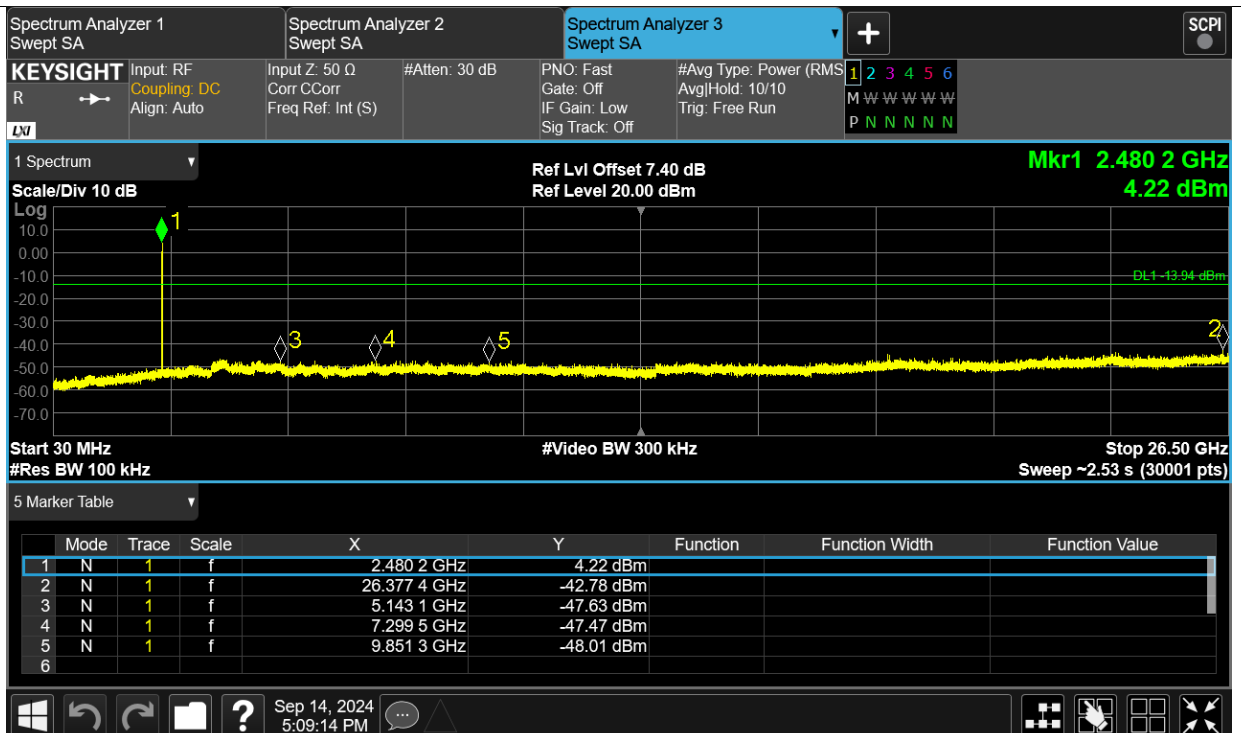
Tx. Spurious NVNT BLE 1Mbps 2440MHz Ant1 Emission



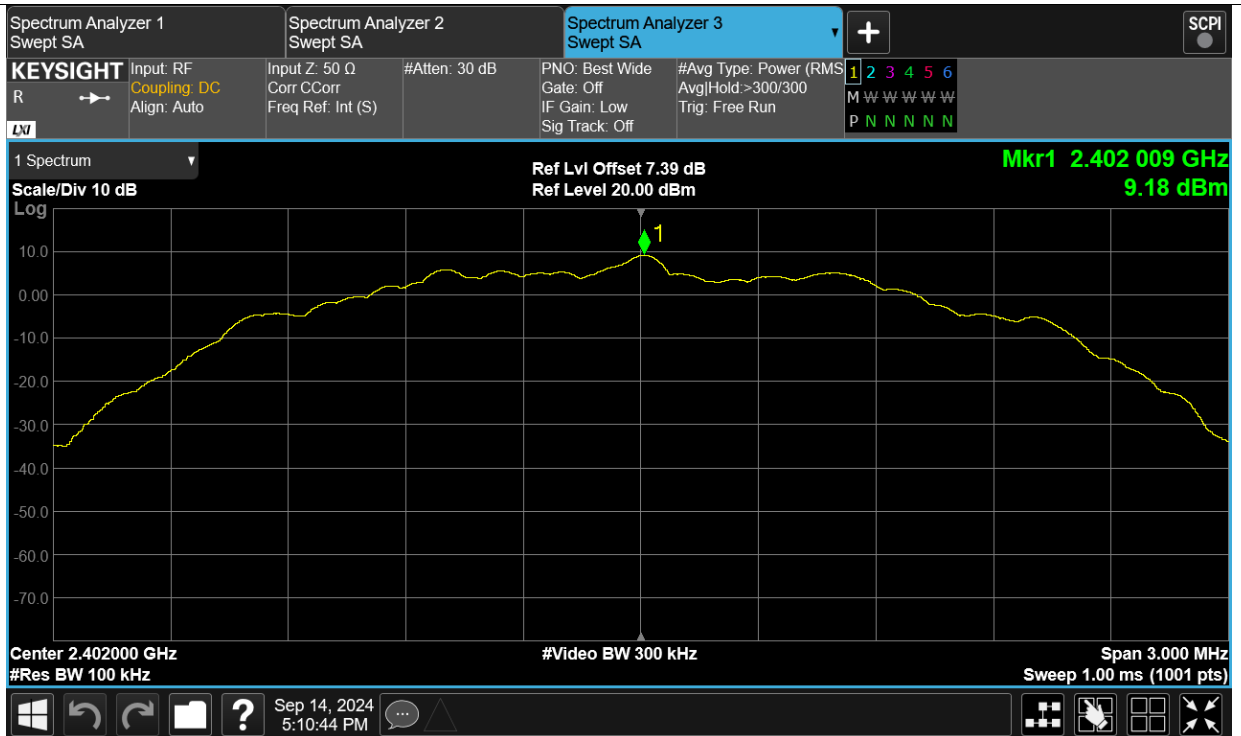
Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Ref



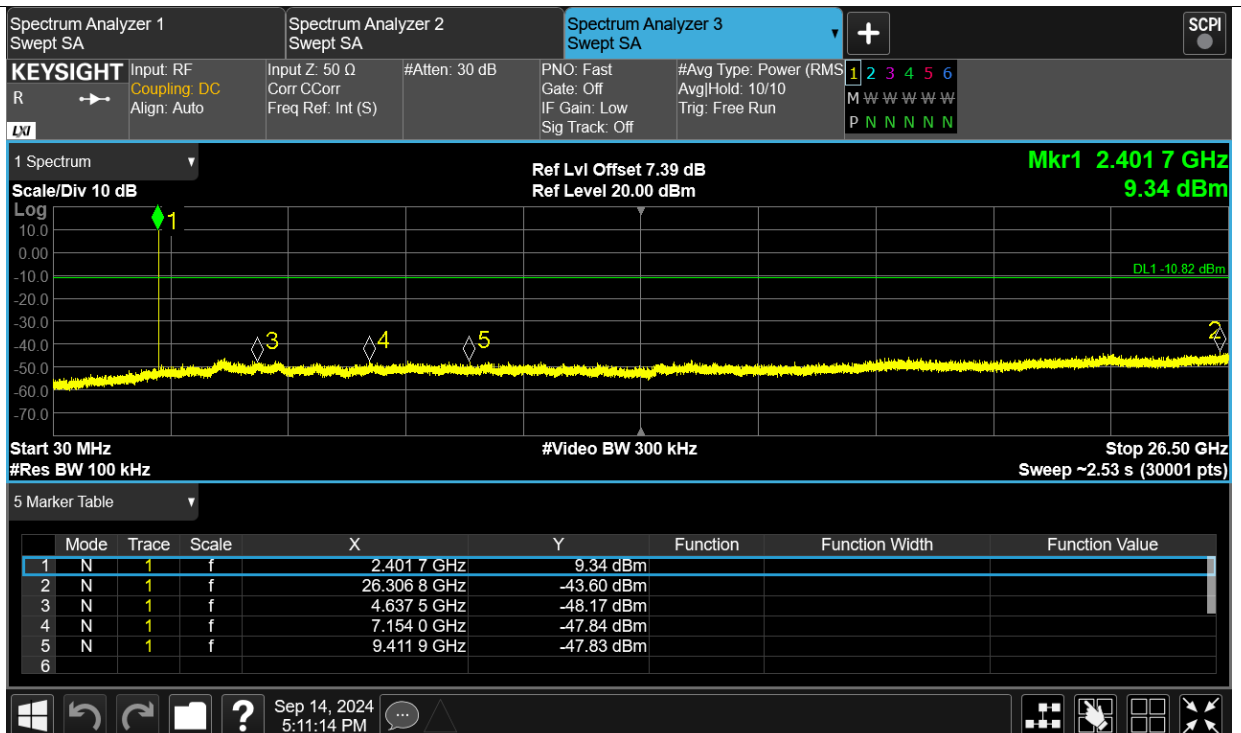
Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Emission



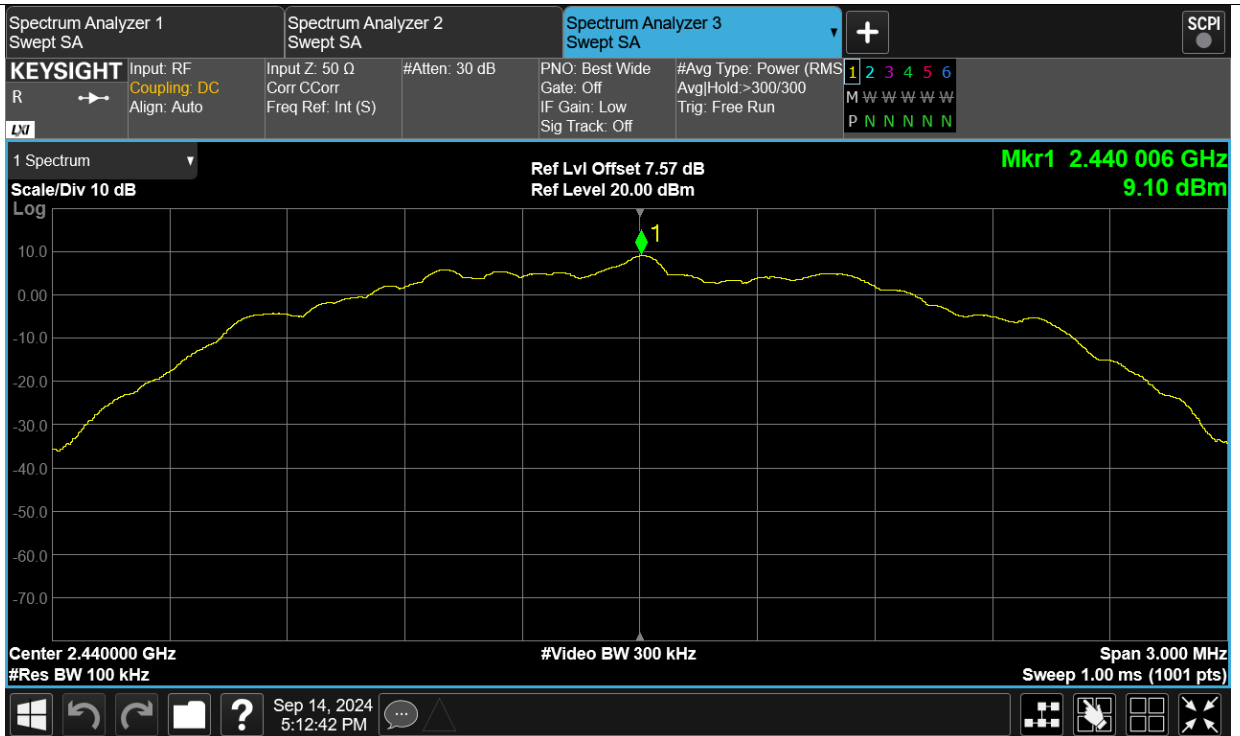
Tx. Spurious NVNT BLE 2Mbps 2402MHz Ant1 Ref



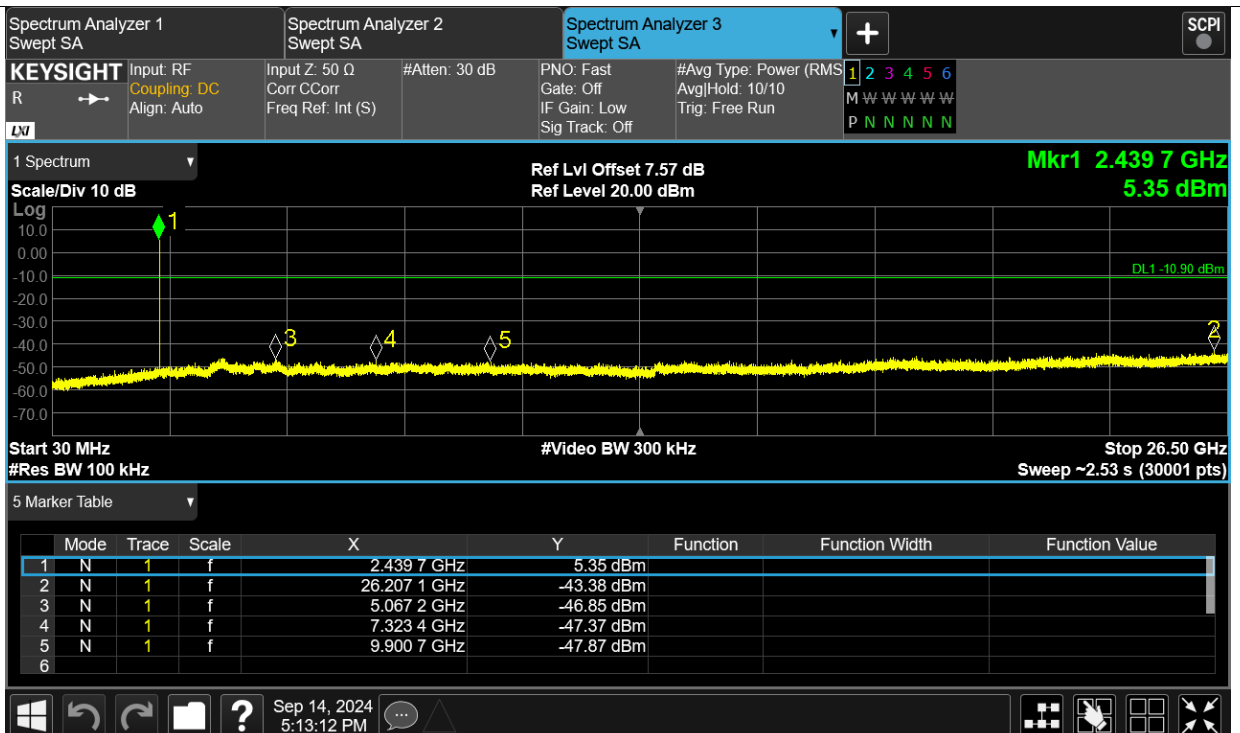
Tx. Spurious NVNT BLE 2Mbps 2402MHz Ant1 Emission



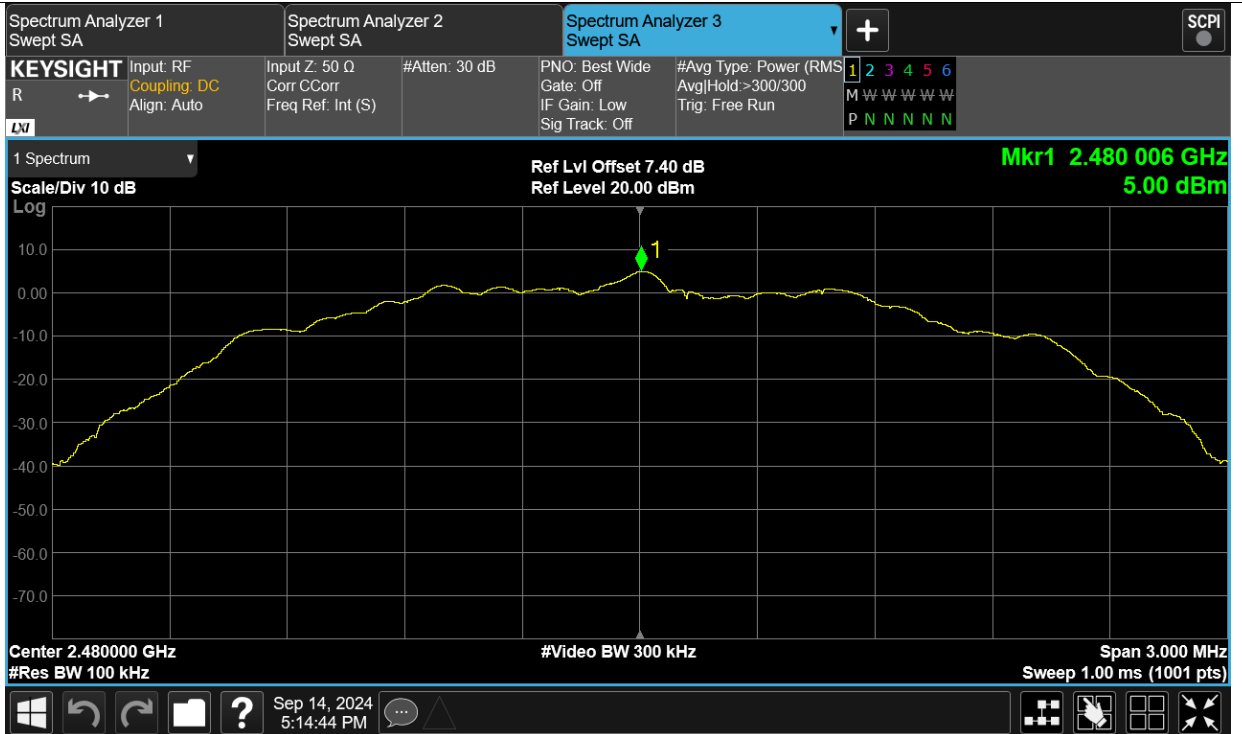
Tx. Spurious NVNT BLE 2Mbps 2440MHz Ant1 Ref



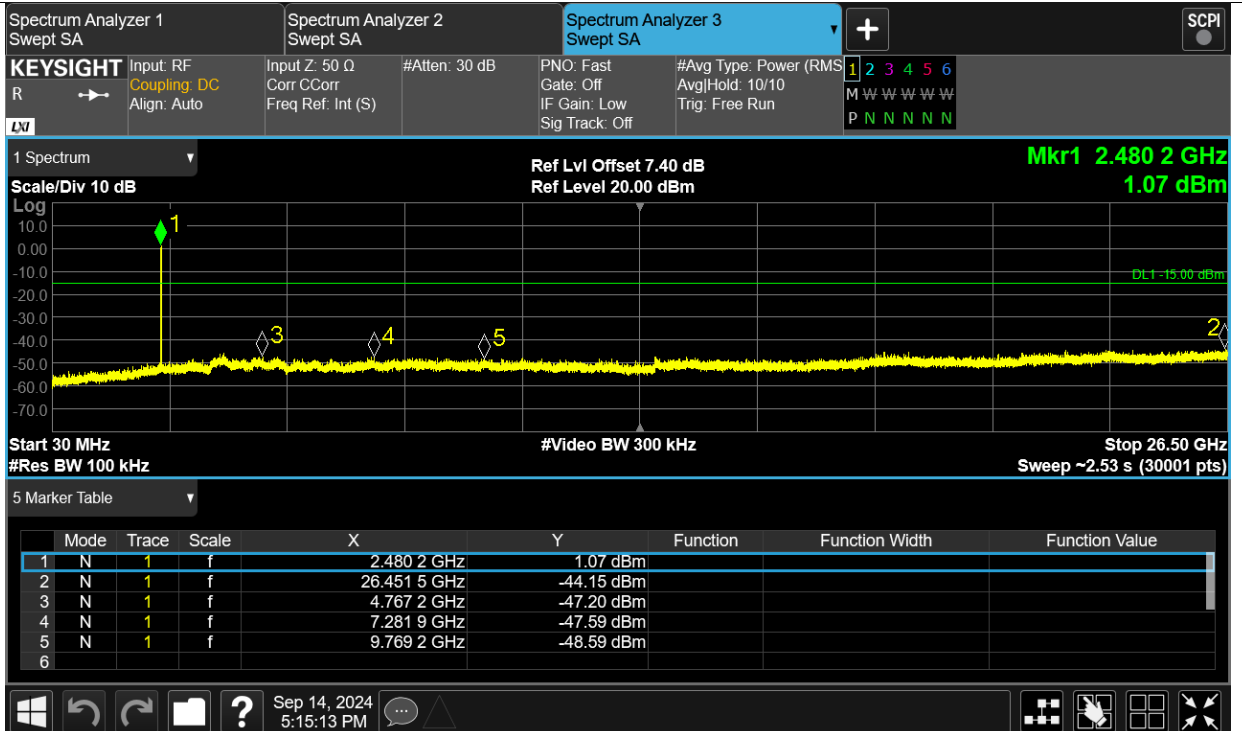
Tx. Spurious NVNT BLE 2Mbps 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 2Mbps 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2Mbps 2480MHz Ant1 Emission



Appendix C.5: Test Results of Radiated Spurious Emissions

Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz - 1GHz



Dongguan NTC Co., Ltd.
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Site: 3m Chamber
Limit: FCC_Part 15C_3m
EUT: Cay player
M/N: TBD
Mode: TX (BLE)
Note: The worst case 1Mbps Mid Channel

Polarization: **Horizontal**
Power: DC 12V
Distance: 3m

Temperature: 26
Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/30

Time: 4:10:33



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		82.3800	38.89	-11.27	27.62	40.00	-12.38	QP	
2		106.6300	35.15	-7.53	27.62	43.50	-15.88	QP	
3		197.8100	40.64	-7.79	32.85	43.50	-10.65	QP	
4	*	327.7900	44.33	-4.72	39.61	46.00	-6.39	QP	
5		340.4000	42.56	-4.32	38.24	46.00	-7.76	QP	
6		700.2700	36.00	2.17	38.17	46.00	-7.83	QP	

*:Maximum data x:Over limit !:over margin

<Reference Only



Dongguan NTC Co., Ltd.
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Web: www.ntc-c.com

Fax: +86-769-2202 2799

Site: 3m Chamber
Limit: FCC_Part 15C_3m
EUT: Cay player
M/N: TBD
Mode: TX (BLE)
Note: The worst case 1Mbps Mid Channel

Polarization: **Vertical**
Power: DC 12V
Distance: 3m

Temperature: 26
Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/30

Time: 4:16:39



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		82.3800	38.43	-11.59	26.84	40.00	-13.16	QP	
2		106.6300	37.68	-9.72	27.96	43.50	-15.54	QP	
3		201.6900	36.06	-8.72	27.34	43.50	-16.16	QP	
4		320.0300	38.98	-5.98	33.00	46.00	-13.00	QP	
5		332.6400	38.46	-5.57	32.89	46.00	-13.11	QP	
6	*	700.2700	33.54	2.17	35.71	46.00	-10.29	QP	

*:Maximum data x:Over limit !:over margin

(Reference Only)

File :TBD 双模BT+BLE\Data :#34

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Engineer Signature: Sean

1GHz - 18GHz



Dongguan NTC Co., Ltd.
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Web: www.ntc-c.com

Fax: +86-769-2202 2799

Site: 3m Chamber
Limit: FCC_15.247_3m_Peak
EUT: Cay player
M/N: TBD
Mode: TX (BLE 1Mbps)
Note: Low

Polarization: **Horizontal**
Power: DC 12V
Distance: 3m

Temperature: 26
Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/29

Time: 22:58:54



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment				
			dBuV		dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	49.92	0.09	50.01	74.00	-23.99	peak	
2		2390.000	34.11	0.09	34.20	54.00	-19.80	AVG	
3		4804.000	45.89	6.30	52.19	74.00	-21.81	peak	
4		4804.000	31.82	6.30	38.12	54.00	-15.88	AVG	
5		7206.000	46.04	10.44	56.48	74.00	-17.52	peak	
6	*	7206.000	31.92	10.44	42.36	54.00	-11.64	AVG	

*:Maximum data x:Over limit !:over margin

<Reference Only



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Tel: +86-769-2202 2444 Fax: +86-769-2202 2799
Web: www.ntc-c.com

Site: 3m Chamber
Limit: FCC_15.247_3m_Peak
EUT: Cay player
M/N: TBD
Mode: TX (BLE 1Mbps)
Note: Low

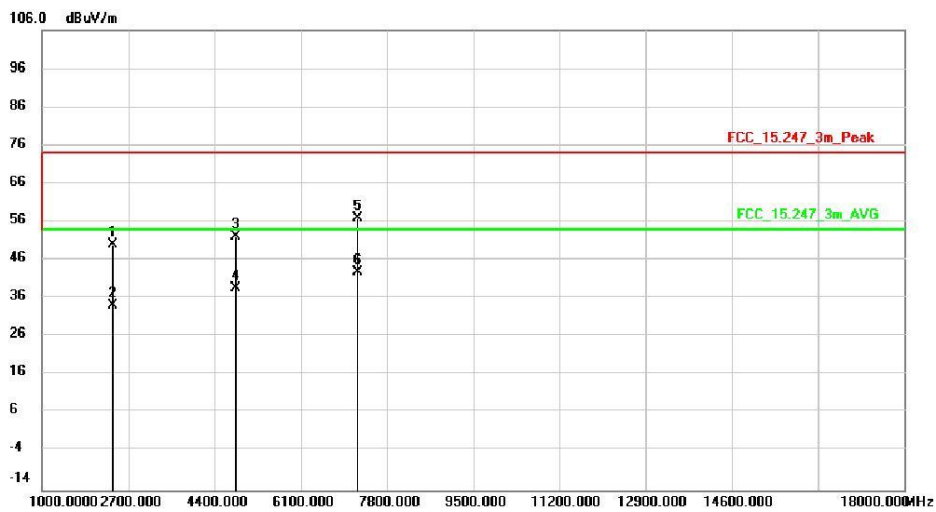
Polarization: **Vertical**
Power: DC 12V
Distance: 3m

Temperature: 26
Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/29

Time: 23:10:43



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment				
			dBuV		dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	49.82	0.09	49.91	74.00	-24.09	peak	
2		2390.000	34.21	0.09	34.30	54.00	-19.70	AVG	
3		4804.000	45.80	6.30	52.10	74.00	-21.90	peak	
4		4804.000	32.41	6.30	38.71	54.00	-15.29	AVG	
5		7206.000	46.44	10.44	56.88	74.00	-17.12	peak	
6	*	7206.000	32.37	10.44	42.81	54.00	-11.19	AVG	

*:Maximum data x:Over limit !:over margin

(Reference Only)



Dongguan NTC Co., Ltd.
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Web: www.ntc-c.com

Fax: +86-769-2202 2799

Site: 3m Chamber

Limit: FCC_15.247_3m_Peak

EUT: Cay player

M/N: TBD

Mode: TX (BLE 1Mbps)

Note: Mid

Polarization: **Horizontal**

Power: DC 12V

Distance: 3m

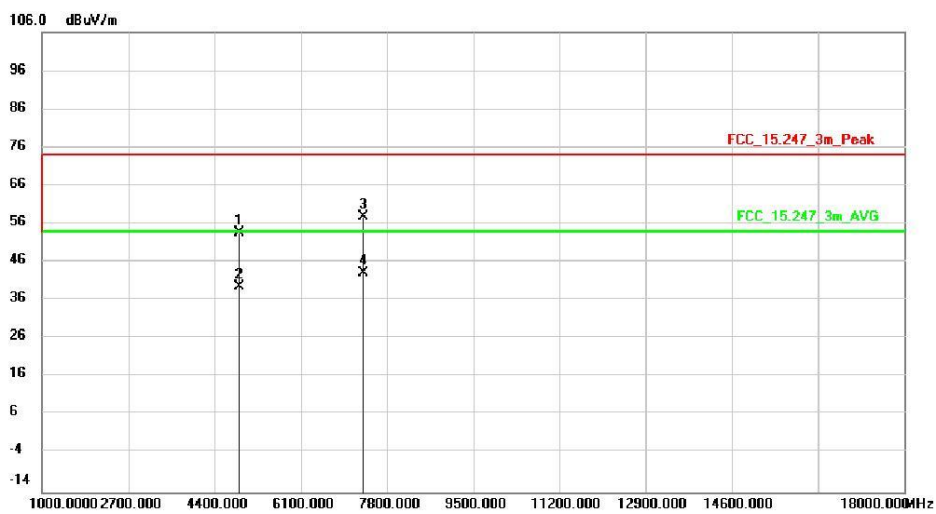
Temperature: 26

Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/29

Time: 23:17:25



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	4880.000	47.15	6.60	53.75	74.00	-20.25	peak	
2	4880.000	32.88	6.60	39.48	54.00	-14.52	AVG	
3	7320.000	47.27	10.55	57.82	74.00	-16.18	peak	
4 *	7320.000	32.51	10.55	43.06	54.00	-10.94	AVG	

*:Maximum data x:Over limit !:over margin

(Reference Only)

File :TBD 双模BT+BLE\Data :#3

Page: 1

Engineer Signature:

Sean



Dongguan NTC Co., Ltd.
Tel: +86-769-2202 2444
Web: www.ntc-c.com

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Site: 3m Chamber

Limit: FCC_15.247_3m_Peak

EUT: Cay player

M/N: TBD

Mode: TX (BLE 1Mbps)

Note: Mid

Polarization: **Vertical**

Power: DC 12V

Distance: 3m

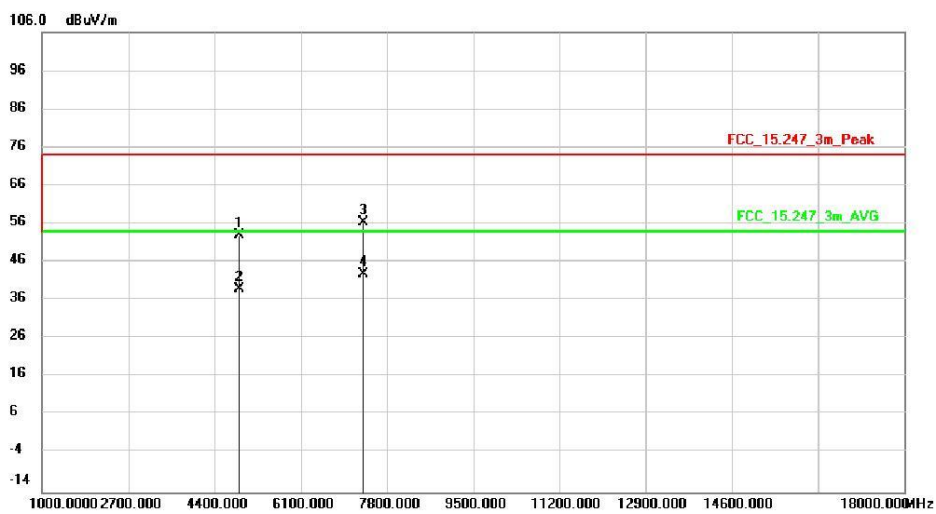
Temperature: 26

Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/29

Time: 23:26:10



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000	46.41	6.60	53.01	74.00	-20.99	peak	
2		4880.000	32.34	6.60	38.94	54.00	-15.06	AVG	
3		7320.000	45.72	10.55	56.27	74.00	-17.73	peak	
4	*	7320.000	32.21	10.55	42.76	54.00	-11.24	AVG	

*:Maximum data x:Over limit !:over margin

(Reference Only)

File :TBD 双模BT+BLE\Data :#4

Page: 1

Engineer Signature:

Sean



Dongguan NTC Co., Ltd.
Tel: +86-769-2202 2444
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Site: 3m Chamber
Limit: FCC_15.247_3m_Peak
EUT: Cay player
M/N: TBD
Mode: TX (BLE 1Mbps)
Note: High

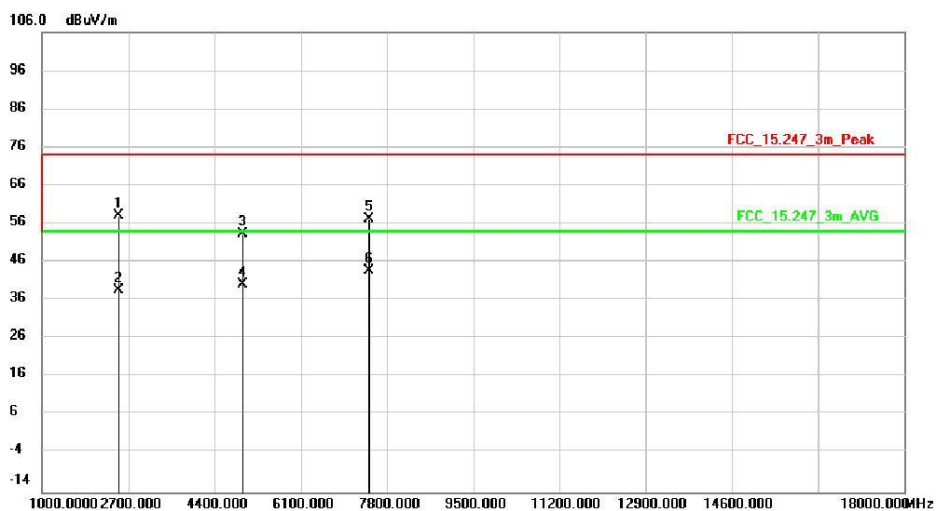
Polarization: **Horizontal**
Power: DC 12V
Distance: 3m

Temperature: 26
Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/29

Time: 23:35:42



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	57.78	0.34	58.12	74.00	-15.88	peak	
2		2483.500	38.28	0.34	38.62	54.00	-15.38	AVG	
3		4960.000	46.58	6.89	53.47	74.00	-20.53	peak	
4		4960.000	33.13	6.89	40.02	54.00	-13.98	AVG	
5		7440.000	46.74	10.60	57.34	74.00	-16.66	peak	
6	*	7440.000	33.16	10.60	43.76	54.00	-10.24	AVG	

*:Maximum data x:Over limit !:over margin

(Reference Only)



Dongguan NTC Co., Ltd.
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Web: www.ntc-c.com

Site: 3m Chamber
Limit: FCC_15.247_3m_Peak
EUT: Cay player
M/N: TBD
Mode: TX (BLE 1Mbps)
Note: High

Polarization: **Vertical**
Power: DC 12V
Distance: 3m

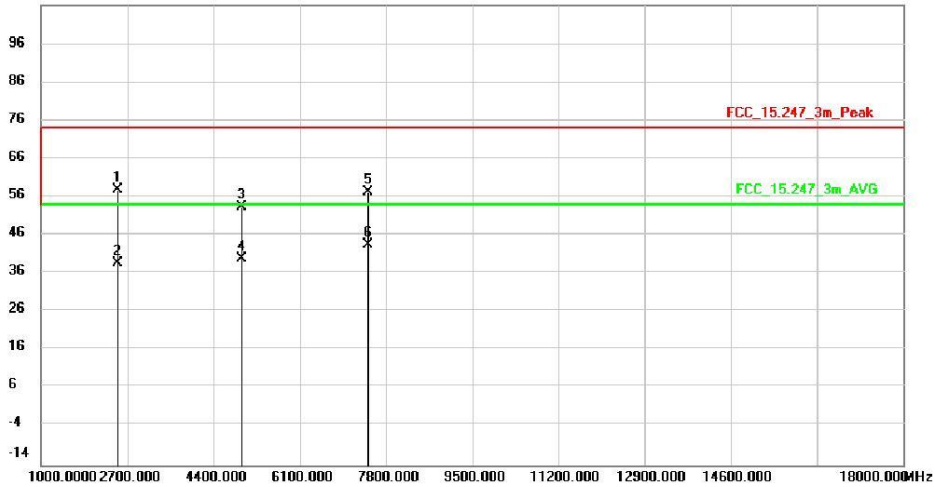
Temperature: 26
Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/29

Time: 23:42:04

106.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	57.43	0.34	57.77	74.00	-16.23	peak	
2		2483.500	38.41	0.34	38.75	54.00	-15.25	AVG	
3		4960.000	46.52	6.89	53.41	74.00	-20.59	peak	
4		4960.000	33.08	6.89	39.97	54.00	-14.03	AVG	
5		7440.000	46.51	10.60	57.11	74.00	-16.89	peak	
6	*	7440.000	32.79	10.60	43.39	54.00	-10.61	AVG	

*:Maximum data x:Over limit !:over margin

(Reference Only)



Dongguan NTC Co., Ltd.
Tel: +86-769-2202 2444
Web: www.ntc-c.com

Fax: +86-769-2202 2799

Site: 3m Chamber

Limit: FCC_15.247_3m_Peak

EUT: Cay player

M/N: TBD

Mode: TX (BLE 2Mbps)

Note: Low

Polarization: **Horizontal**

Power: DC 12V

Distance: 3m

Temperature: 26

Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/29

Time: 23:52:16



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Comment
1		2390.000	48.80	0.09	48.89	74.00	-25.11	peak	
2		2390.000	34.76	0.09	34.85	54.00	-19.15	AVG	
3		4804.000	46.44	6.30	52.74	74.00	-21.26	peak	
4		4804.000	32.75	6.30	39.05	54.00	-14.95	AVG	
5		7206.000	46.22	10.44	56.66	74.00	-17.34	peak	
6	*	7206.000	32.70	10.44	43.14	54.00	-10.86	AVG	

*:Maximum data x:Over limit !:over margin

(Reference Only)

File :TBD 双模BT+BLE\Data :#7

Page: 1

Engineer Signature:

Sean



Dongguan NTC Co., Ltd.
Tel: +86-769-2202 2444
Web: www.ntc-c.com

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Site: 3m Chamber
Limit: FCC_15.247_3m_Peak
EUT: Cay player
M/N: TBD
Mode: TX (BLE 2Mbps)
Note: Low

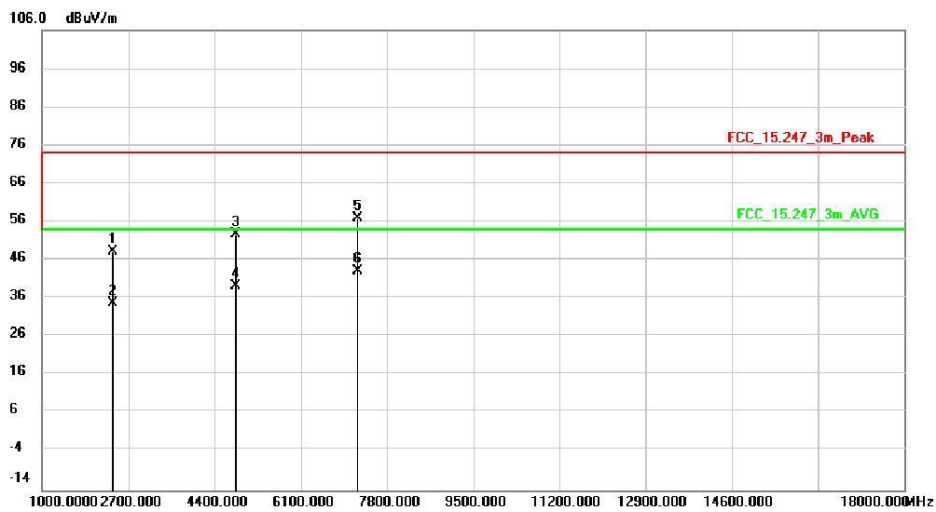
Polarization: **Vertical**
Power: DC 12V
Distance: 3m

Temperature: 26
Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/30

Time: 0:02:37



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Comment
1		2390.000	48.24	0.09	48.33	74.00	-25.67	peak	
2		2390.000	34.70	0.09	34.79	54.00	-19.21	AVG	
3		4804.000	46.31	6.30	52.61	74.00	-21.39	peak	
4		4804.000	32.84	6.30	39.14	54.00	-14.86	AVG	
5		7206.000	46.48	10.44	56.92	74.00	-17.08	peak	
6	*	7206.000	32.84	10.44	43.28	54.00	-10.72	AVG	

*:Maximum data x:Over limit !:over margin

(Reference Only)



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Site: 3m Chamber

Limit: FCC_15.247_3m_Peak

EUT: Cay player

M/N: TBD

Mode: TX (BLE 2Mbps)

Note: Mid

Polarization: **Horizontal**

Power: DC 12V

Distance: 3m

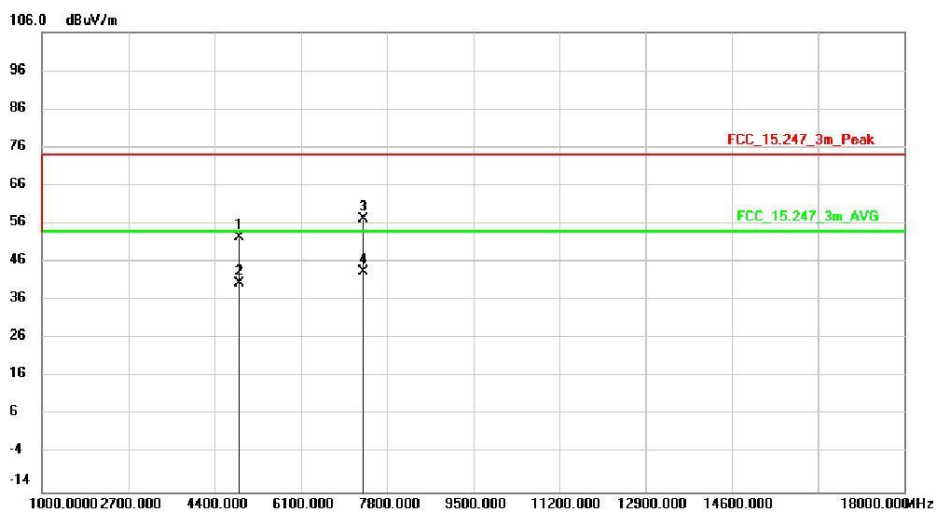
Temperature: 26

Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/30

Time: 0:11:27



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000	45.88	6.60	52.48	74.00	-21.52	peak	
2		4880.000	33.75	6.60	40.35	54.00	-13.65	AVG	
3		7320.000	46.77	10.55	57.32	74.00	-16.68	peak	
4	*	7320.000	32.78	10.55	43.33	54.00	-10.67	AVG	

*:Maximum data x:Over limit !:over margin

(Reference Only)

File :TBD 双模BT+BLE\Data :#9

Page: 1

Engineer Signature:

Sean



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Fax: +86-769-2202 2799

Site: 3m Chamber

Polarization: **Vertical**

Temperature: 26

Limit: FCC_15.247_3m_Peak

Power: DC 12V

Humidity: 47 %

EUT: Cay player

Distance: 3m

M/N: TBD

Mode: TX (BLE 2Mbps)

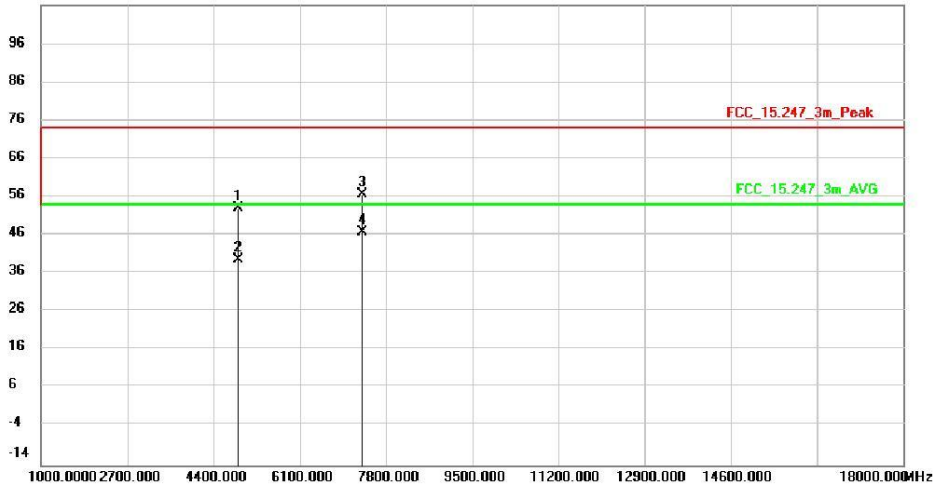
Note: Mid

Radiated Emission Measurement

Date: 2024/9/30

Time: 0:19:56

106.0 dBuV/m



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		4880.000	46.41	6.60	53.01	74.00	-20.99	peak	
2		4880.000	32.97	6.60	39.57	54.00	-14.43	AVG	
3		7320.000	46.25	10.55	56.80	74.00	-17.20	peak	
4	*	7320.000	36.26	10.55	46.81	54.00	-7.19	AVG	

*:Maximum data x:Over limit !:over margin

(Reference Only)

File :TBD 双模BT+BLE\Data :#10

Page: 1

Engineer Signature:

Sean



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Site: 3m Chamber

Limit: FCC_15.247_3m_Peak

EUT: Cay player

M/N: TBD

Mode: TX (BLE 2Mbps)

Note: High

Polarization: **Horizontal**

Power: DC 12V

Distance: 3m

Temperature: 26

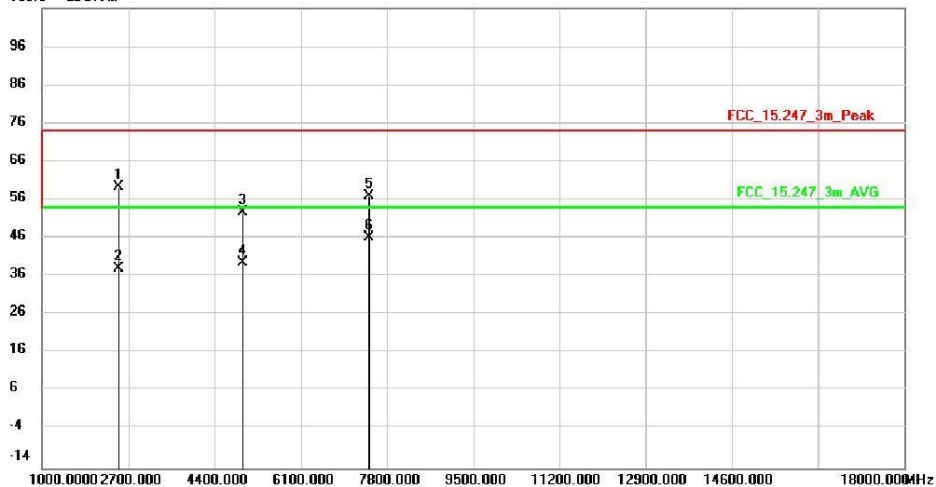
Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/30

Time: 0:29:03

106.0 dBμV/m



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBμV	dB/m	dBμV/m	dBμV/m	dB	Detector	Comment
1	2483.500	58.98	0.34	59.32	74.00	-14.68	peak	
2	2483.500	37.70	0.34	38.04	54.00	-15.96	AVG	
3	4960.000	45.87	6.89	52.76	74.00	-21.24	peak	
4	4960.000	32.56	6.89	39.45	54.00	-14.55	AVG	
5	7440.000	46.30	10.60	56.90	74.00	-17.10	peak	
6 *	7440.000	35.62	10.60	46.22	54.00	-7.78	AVG	

*:Maximum data x:Over limit !:over margin

(Reference Only)



Dongguan NTC Co., Ltd.
Tel: +86-769-2202 2444
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Fax: +86-769-2202 2799

Site: 3m Chamber
Limit: FCC_15.247_3m_Peak
EUT: Cay player
M/N: TBD
Mode: TX (BLE 2Mbps)
Note: High

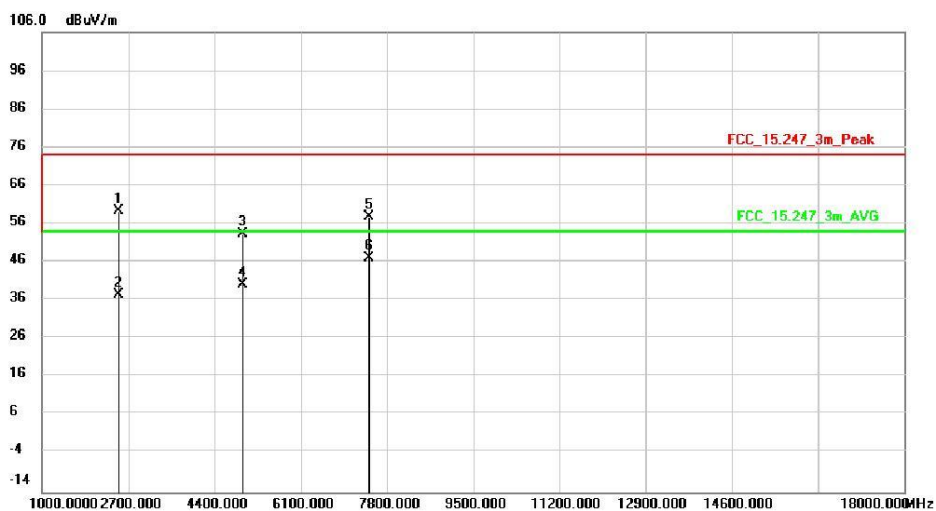
Polarization: **Vertical**
Power: DC 12V
Distance: 3m

Temperature: 26
Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/30

Time: 0:41:16



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	59.10	0.34	59.44	74.00	-14.56	peak	
2		2483.500	37.16	0.34	37.50	54.00	-16.50	AVG	
3		4960.000	46.60	6.89	53.49	74.00	-20.51	peak	
4		4960.000	33.38	6.89	40.27	54.00	-13.73	AVG	
5		7440.000	47.32	10.60	57.92	74.00	-16.08	peak	
6	*	7440.000	36.46	10.60	47.06	54.00	-6.94	AVG	

*:Maximum data x:Over limit !:over margin

(Reference Only)