

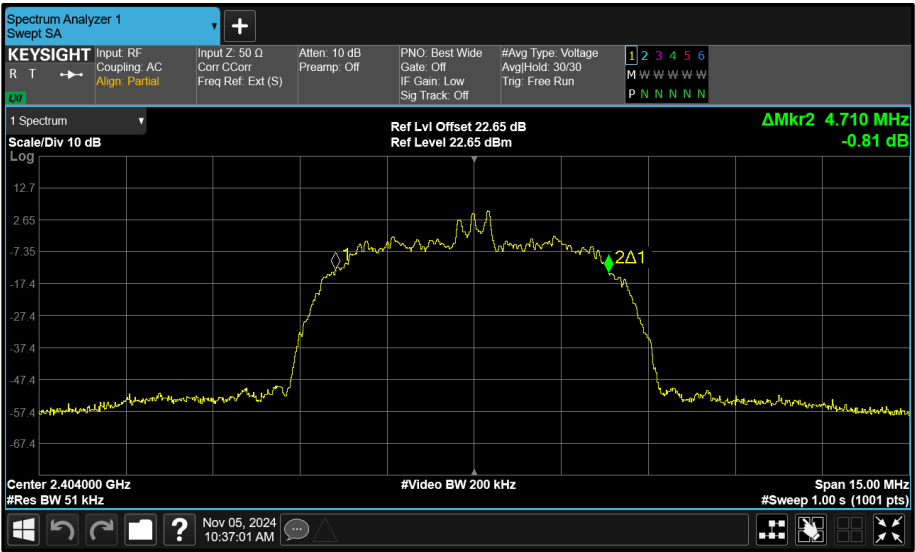


Figure 157 - Core 0 (A) 2404 MHz (CH2) 99% Bandwidth

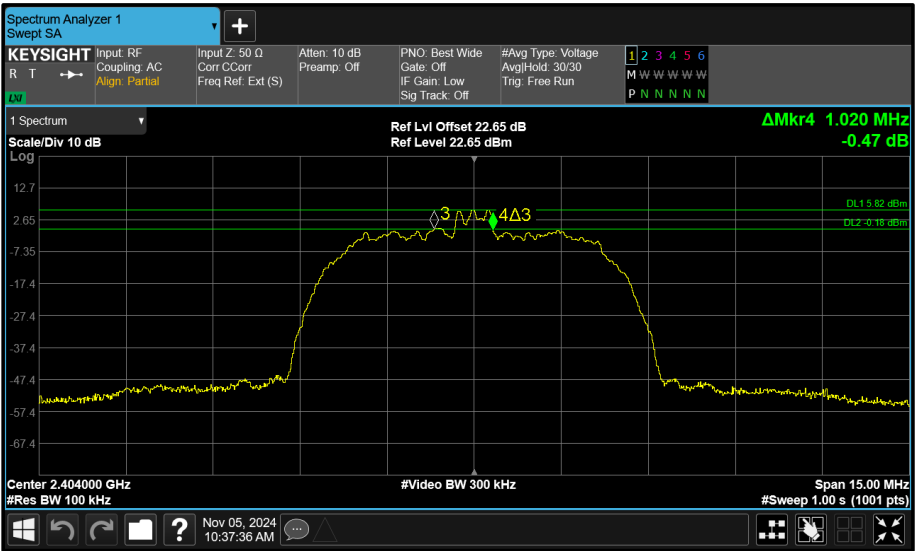


Figure 158 - Core 0 (A) 2404 MHz (CH2) 6 dB Bandwidth

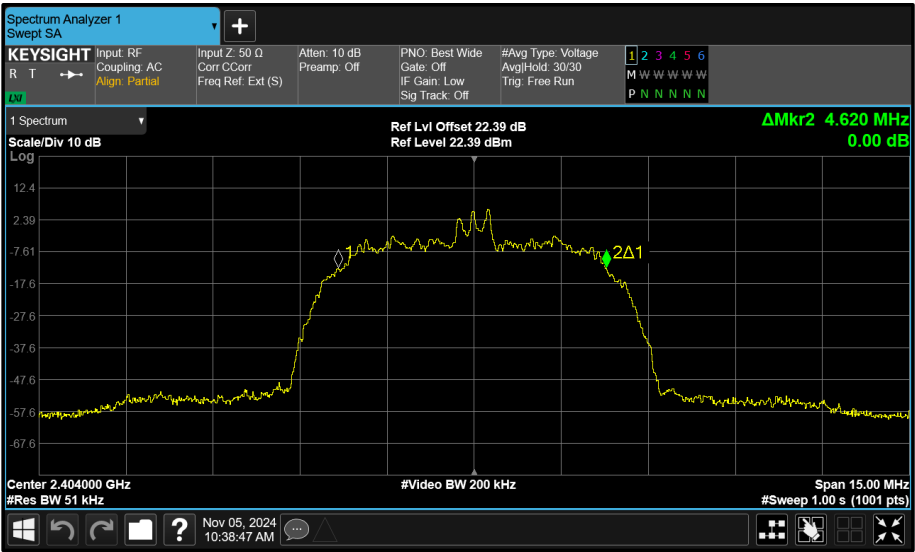


Figure 159 - Core 1 (B) 2404 MHz (CH2) 99% Bandwidth

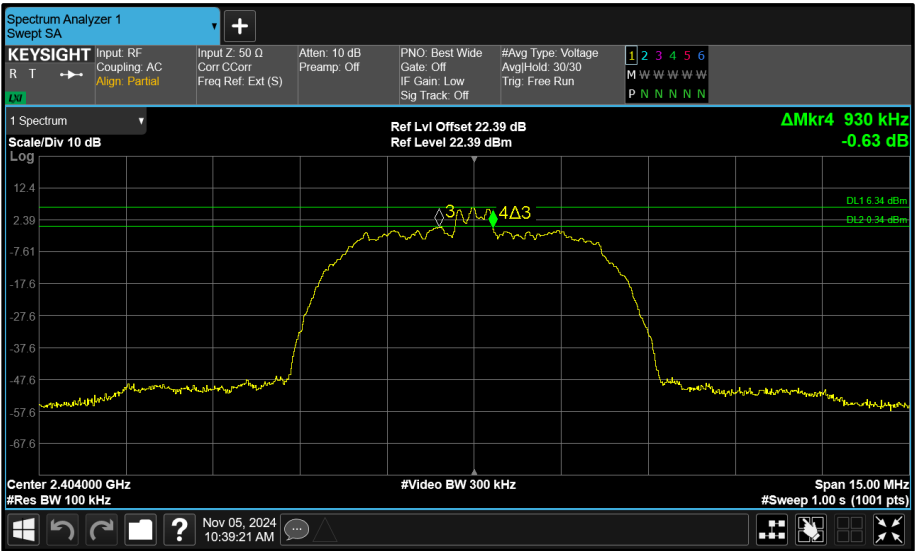


Figure 160 - Core 1 (B) 2404 MHz (CH2) 6 dB Bandwidth

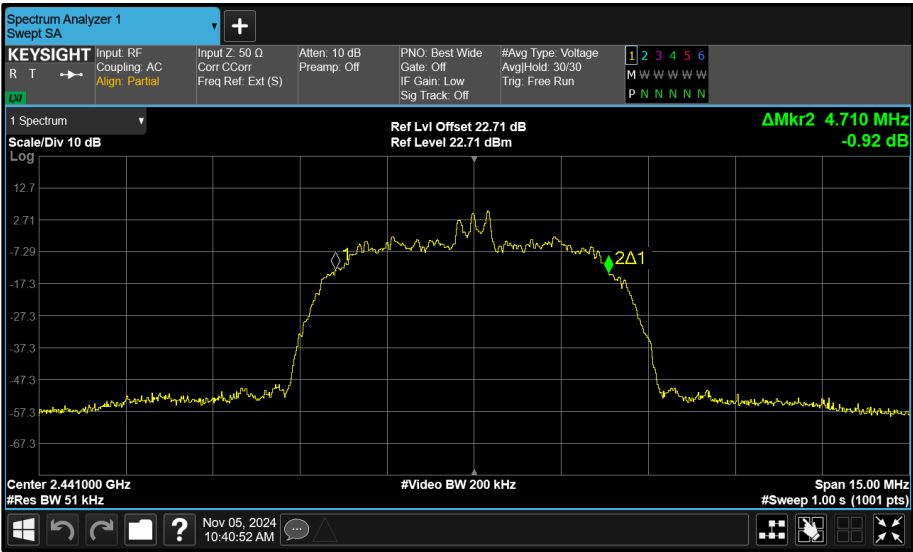


Figure 161 - Core 0 (A) 2441 MHz (CH39) 99% Bandwidth

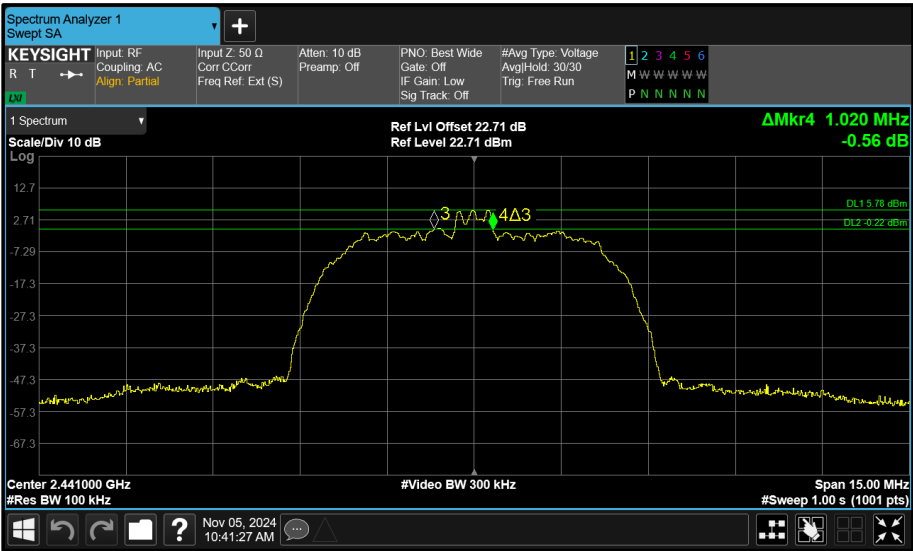


Figure 162 - Core 0 (A) 2441 MHz (CH39) 6 dB Bandwidth

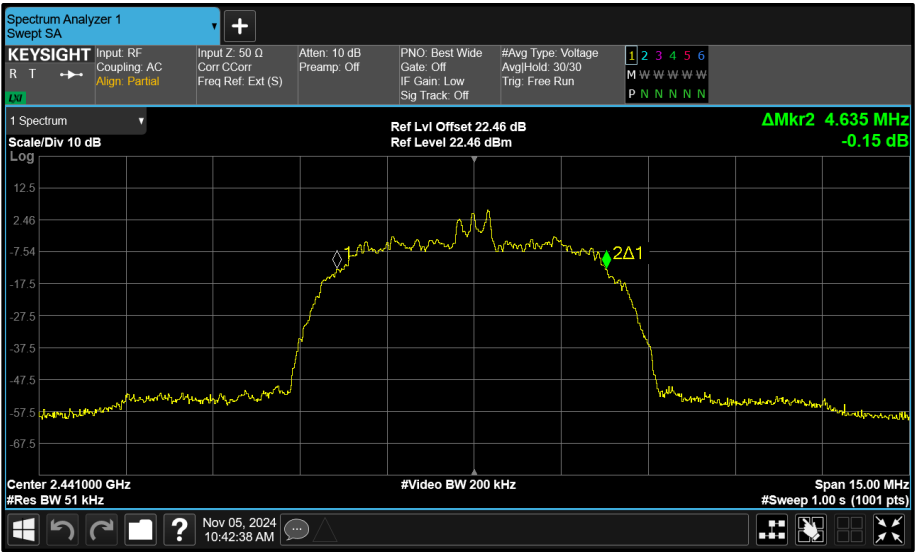


Figure 163 - Core 1 (B) 2441 MHz (CH39) 99% Bandwidth

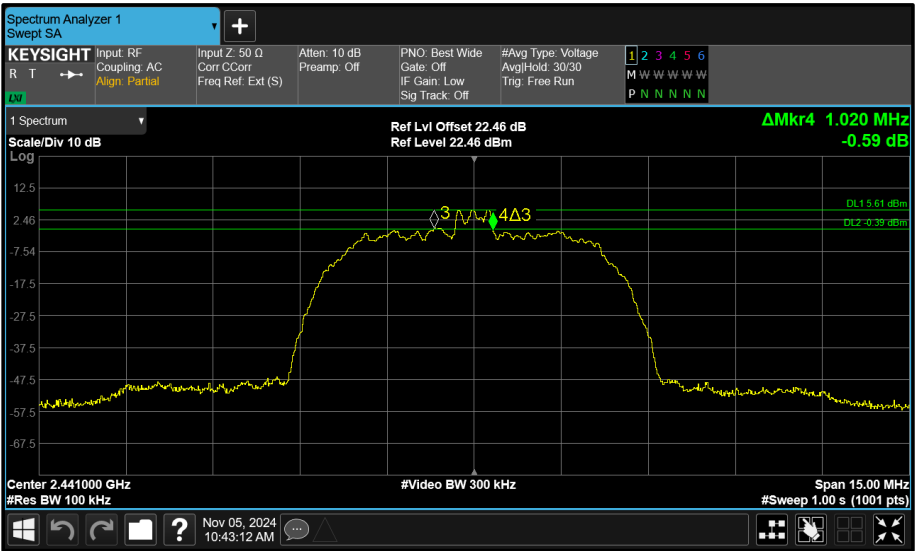


Figure 164 - Core 1 (B) 2441 MHz (CH39) 6 dB Bandwidth

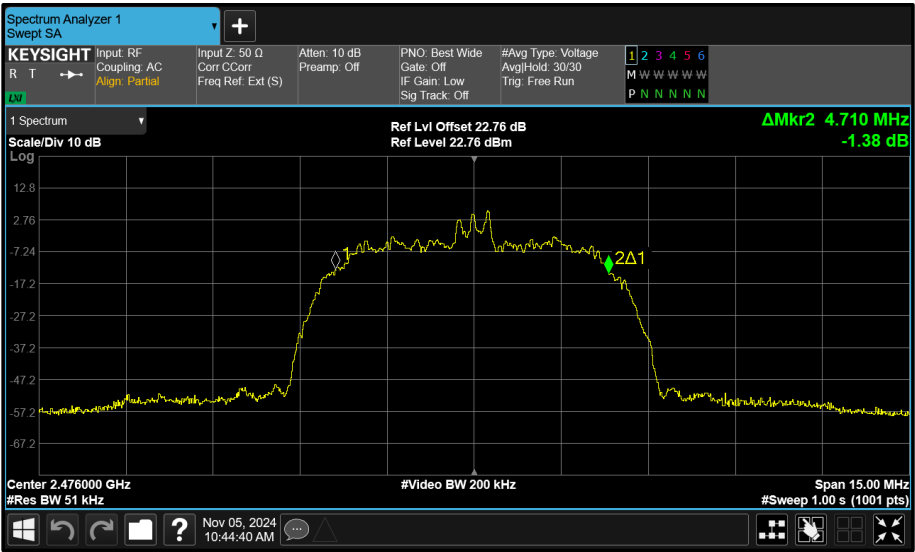


Figure 165 - Core 0 (A) 2476 MHz (CH74) 99% Bandwidth

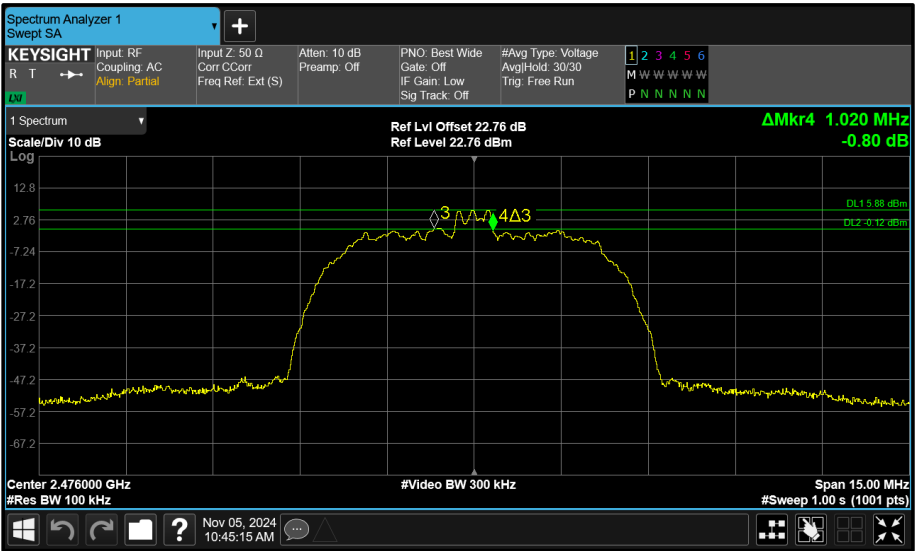


Figure 166 - Core 0 (A) 2476 MHz (CH74) 6 dB Bandwidth

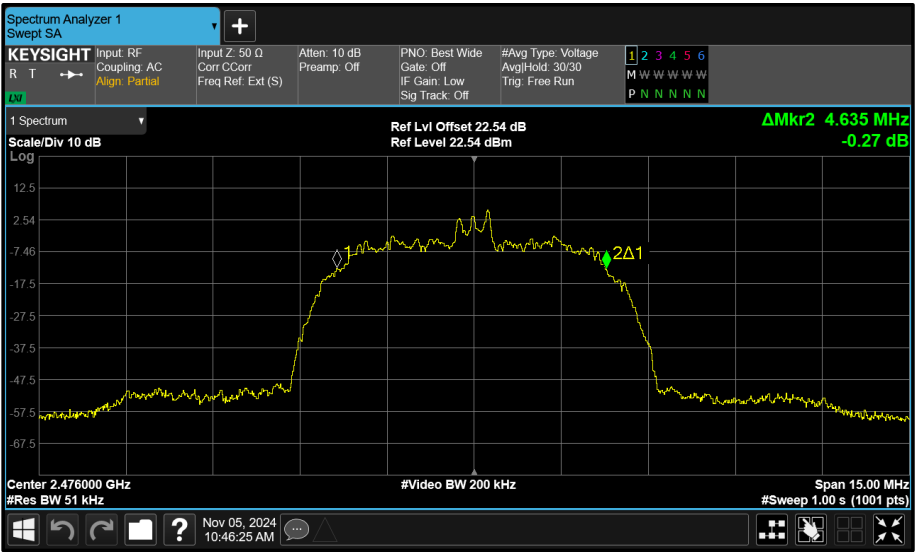


Figure 167 - Core 1 (B) 2476 MHz (CH74) 99% Bandwidth

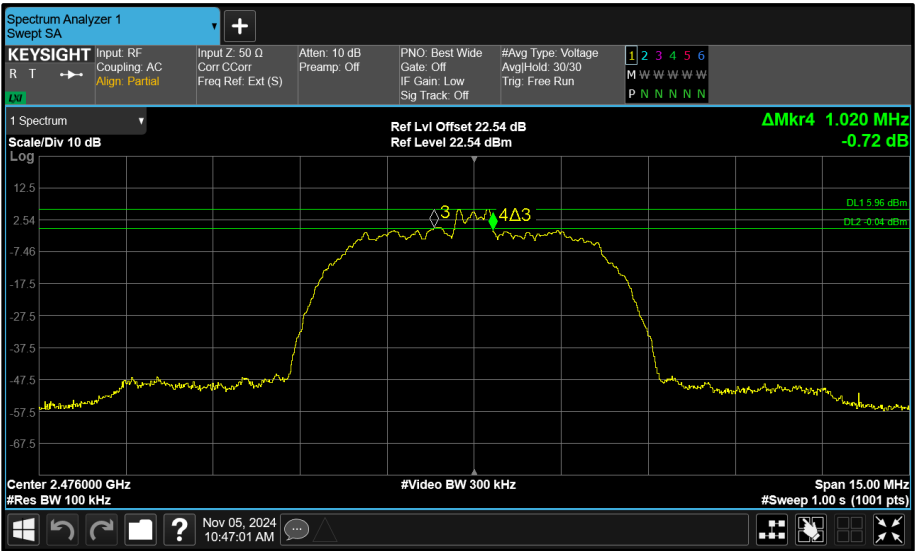


Figure 168 - Core 1 (B) 2476 MHz (CH74) 6 dB Bandwidth



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (LE 1M)	Duty Cycle (%):	-
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	-	0.728	-	-	≥500.0
2440	-	0.728	-	-	≥500.0
2480	-	0.732	-	-	≥500.0

Table 41 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	-	1.040	-	-	-
2440	-	1.040	-	-	-
2480	-	1.040	-	-	-

Table 42 - 99% Bandwidth Results

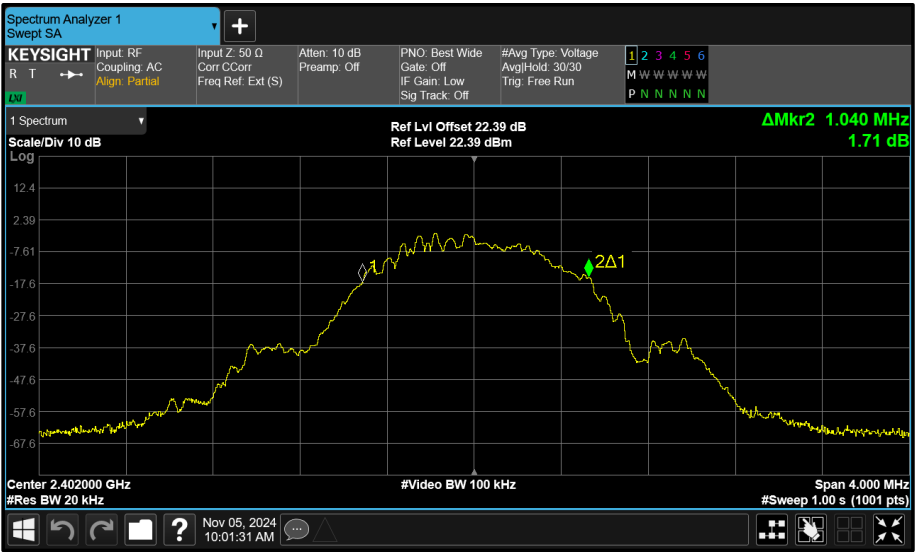


Figure 169 - Core 1 (B) 2402 MHz (CH37) 99% Bandwidth

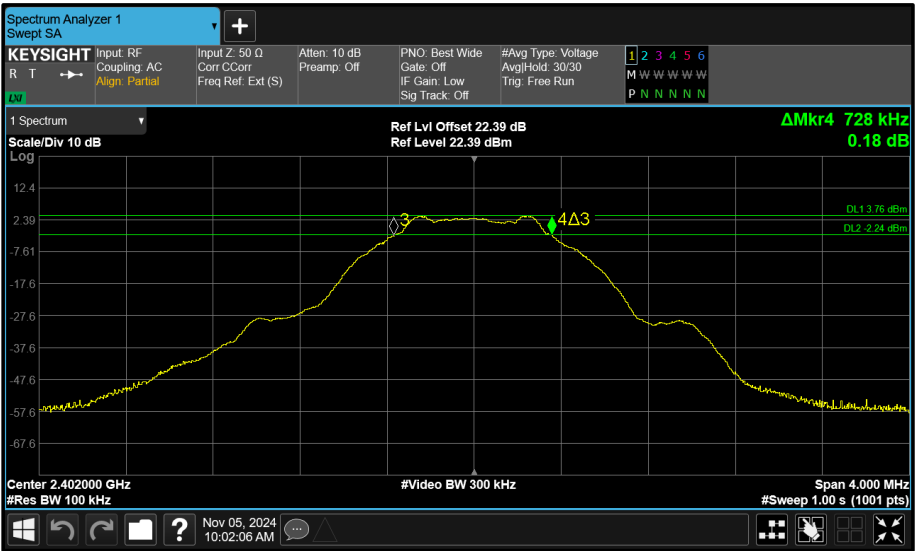


Figure 170 - Core 1 (B) 2402 MHz (CH37) 6 dB Bandwidth

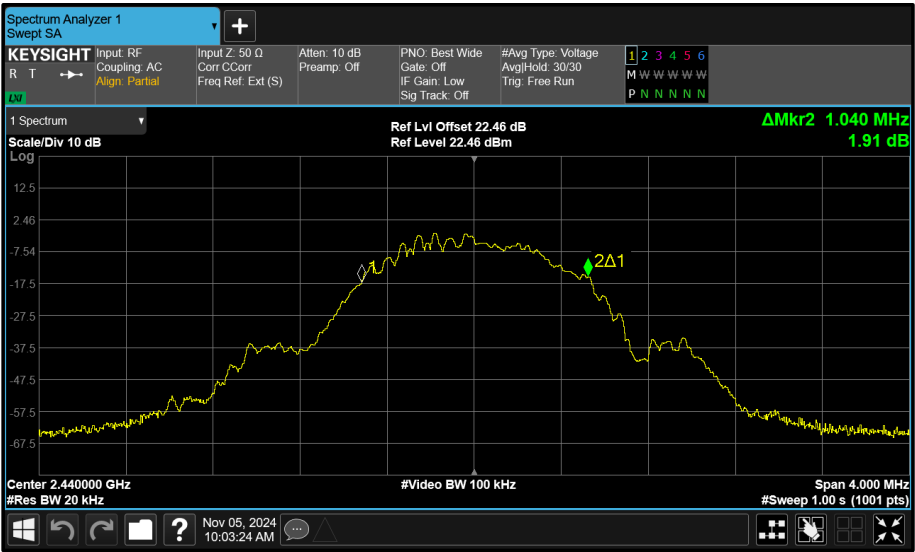


Figure 171 - Core 1 (B) 2440 MHz (CH17) 99% Bandwidth

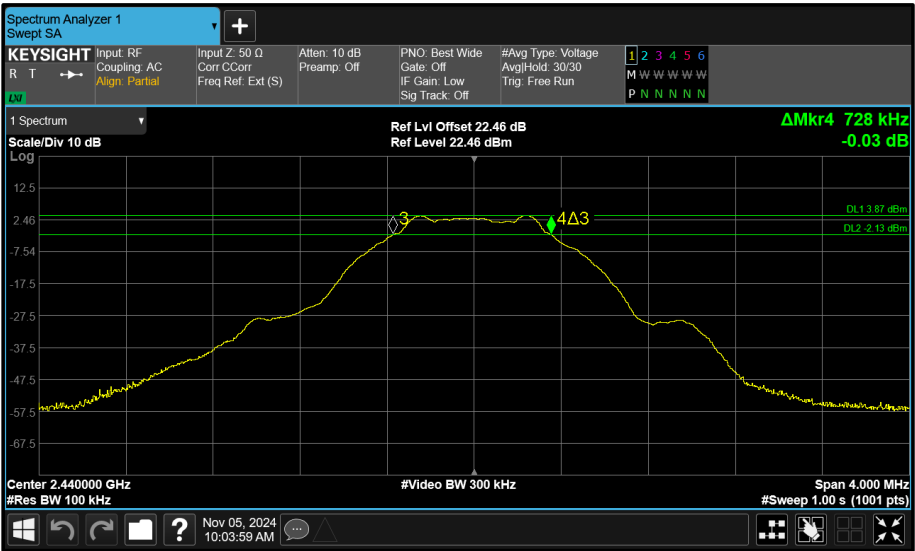


Figure 172 - Core 1 (B) 2440 MHz (CH17) 6 dB Bandwidth

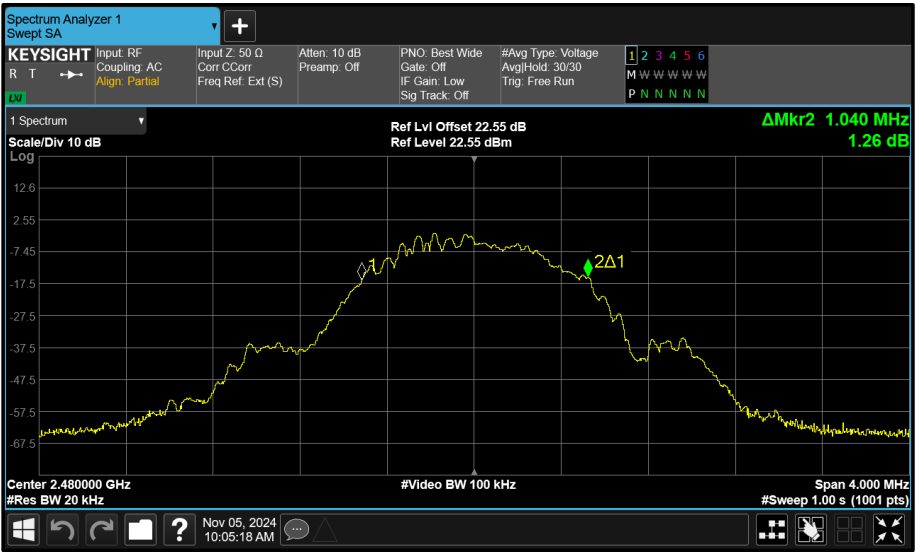


Figure 173 - Core 1 (B) 2480 MHz (CH39) 99% Bandwidth

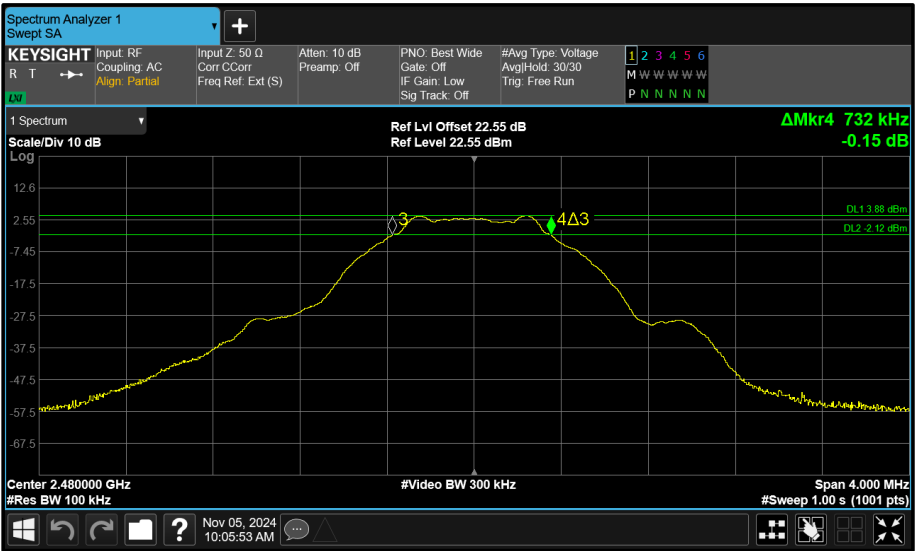


Figure 174 - Core 1 (B) 2480 MHz (CH39) 6 dB Bandwidth



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (LE 2M)	Duty Cycle (%):	-
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	-	1.272	-	-	≥500.0
2440	-	1.280	-	-	≥500.0
2480	-	1.296	-	-	≥500.0

Table 43 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	-	2.096	-	-	-
2440	-	2.088	-	-	-
2480	-	2.088	-	-	-

Table 44 - 99% Bandwidth Results

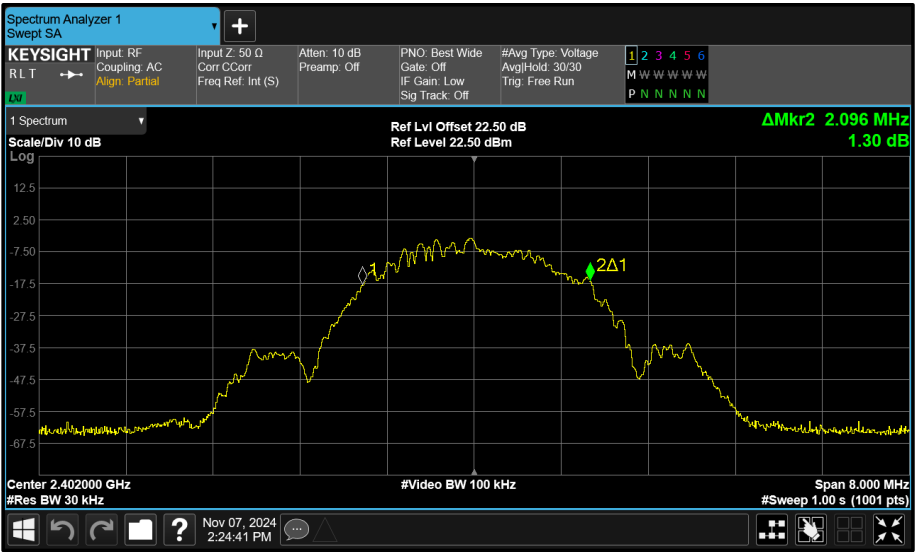


Figure 175 - Core 1 (B) 2402 MHz (CH37) 99% Bandwidth

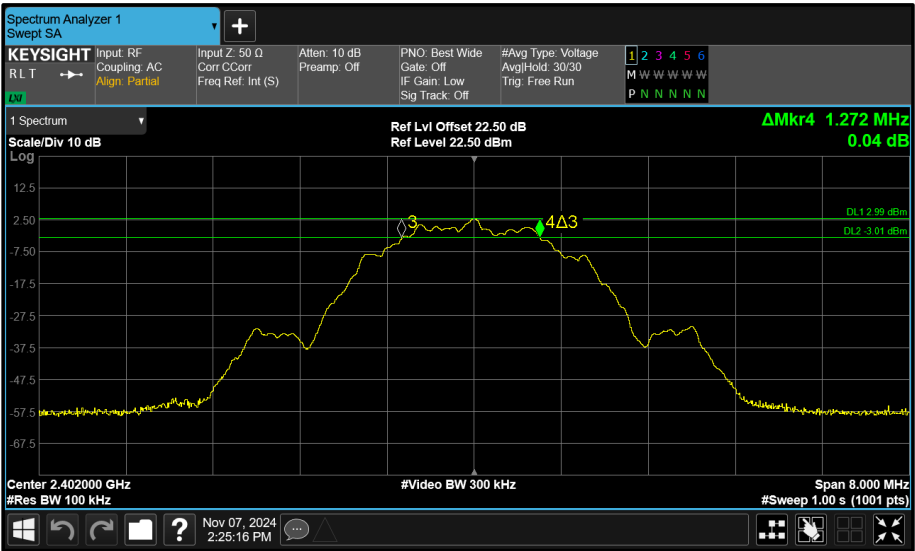


Figure 176 - Core 1 (B) 2402 MHz (CH37) 6 dB Bandwidth

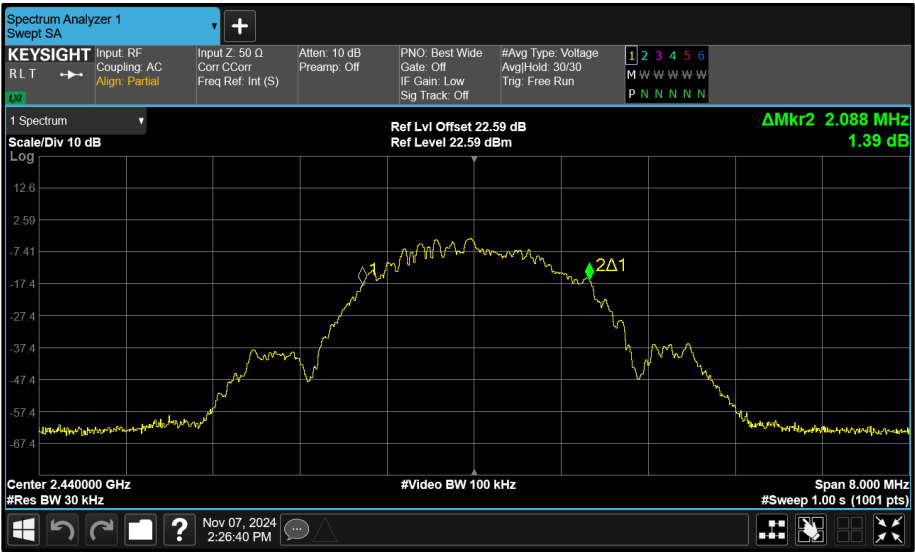


Figure 177 - Core 1 (B) 2440 MHz (CH17) 99% Bandwidth

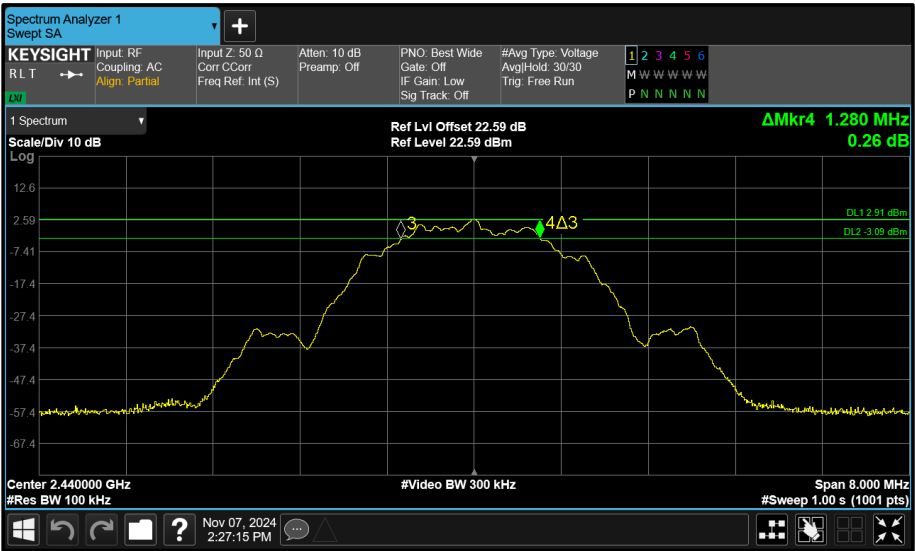


Figure 178 - Core 1 (B) 2440 MHz (CH17) 6 dB Bandwidth

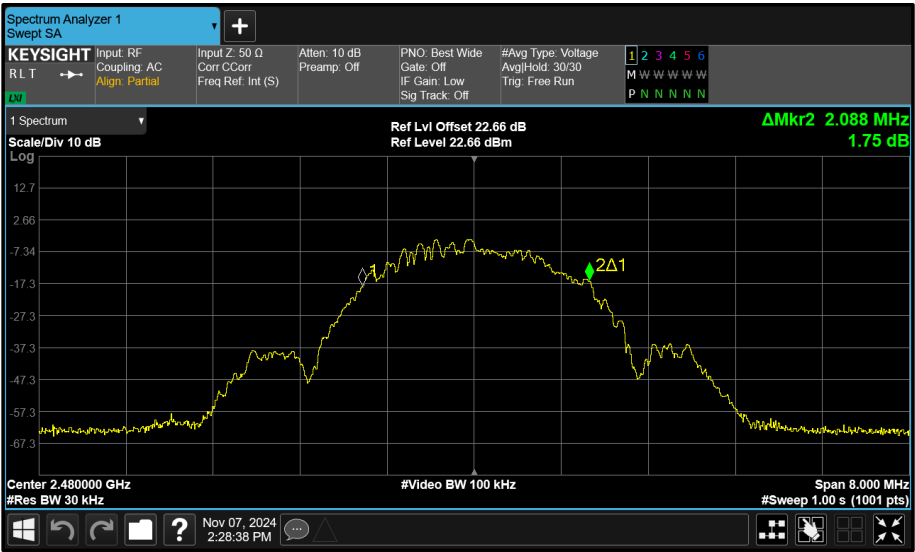


Figure 179 - Core 1 (B) 2480 MHz (CH39) 99% Bandwidth

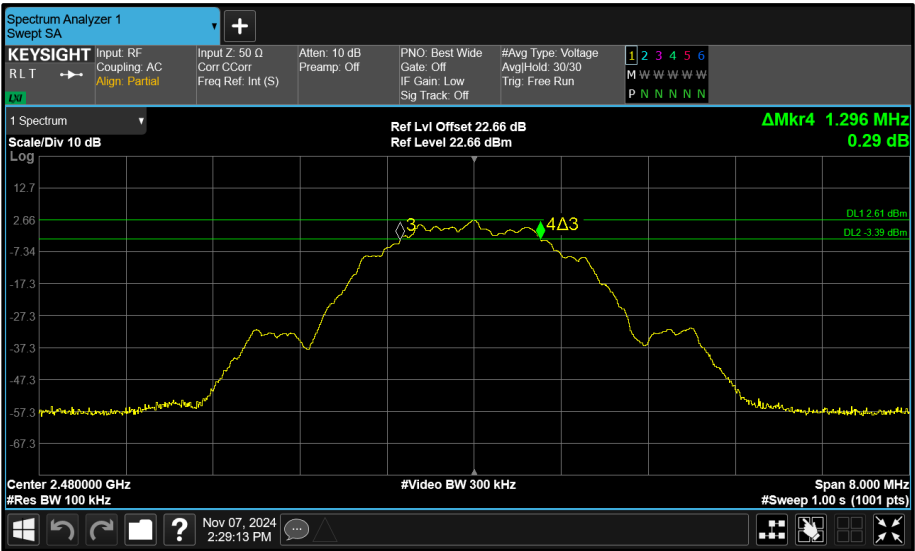


Figure 180 - Core 1 (B) 2480 MHz (CH39) 6 dB Bandwidth



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (LE 1M)	Duty Cycle (%):	-
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	0.724	0.720	-	-	≥500.0
2440	0.728	0.724	-	-	≥500.0
2480	0.728	0.720	-	-	≥500.0

Table 45 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	1.040	1.040	-	-	-
2440	1.040	1.040	-	-	-
2480	1.040	1.040	-	-	-

Table 46 - 99% Bandwidth Results

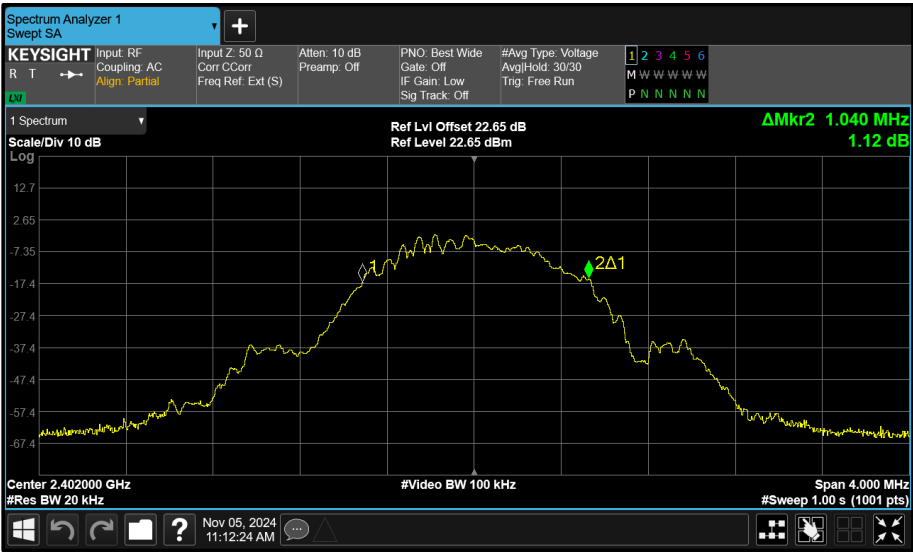


Figure 181 - Core 0 (A) 2402 MHz (CH37) 99% Bandwidth

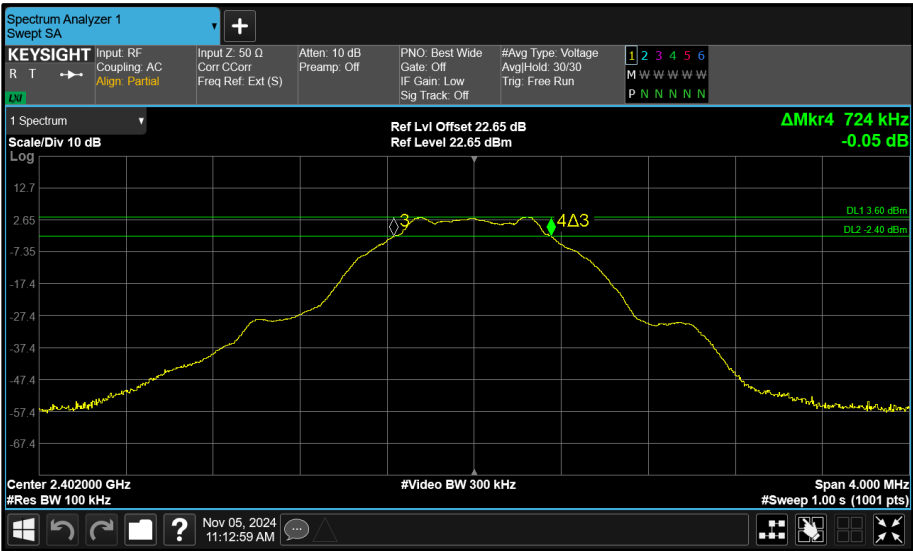


Figure 182 - Core 0 (A) 2402 MHz (CH37) 6 dB Bandwidth

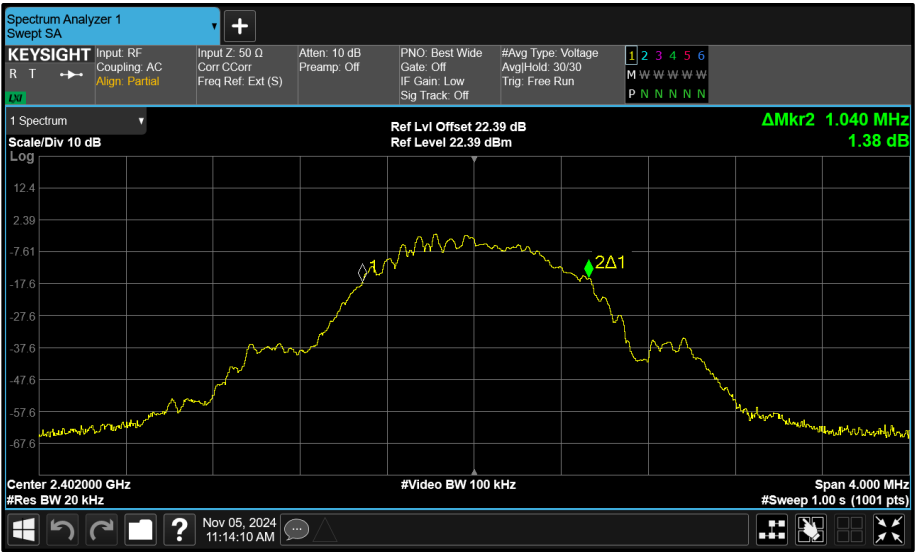


Figure 183 - Core 1 (B) 2402 MHz (CH37) 99% Bandwidth

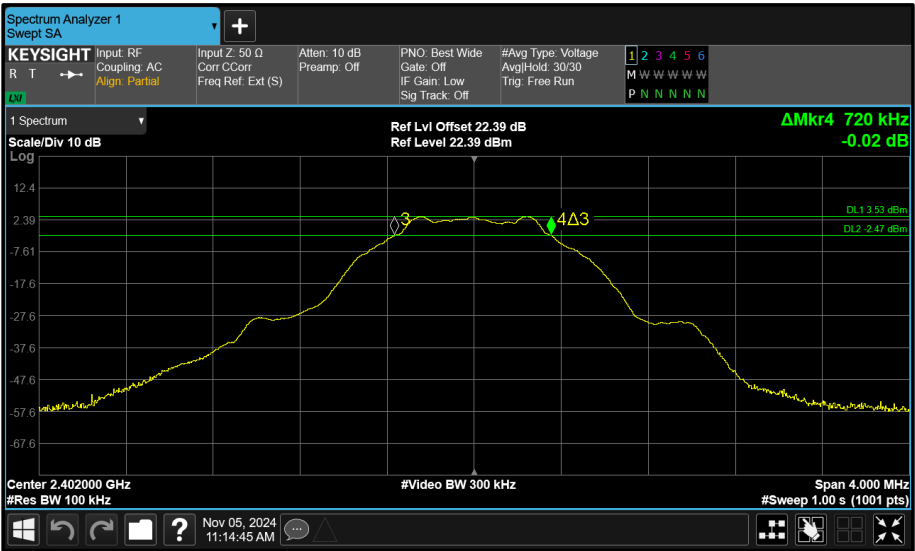


Figure 184 - Core 1 (B) 2402 MHz (CH37) 6 dB Bandwidth

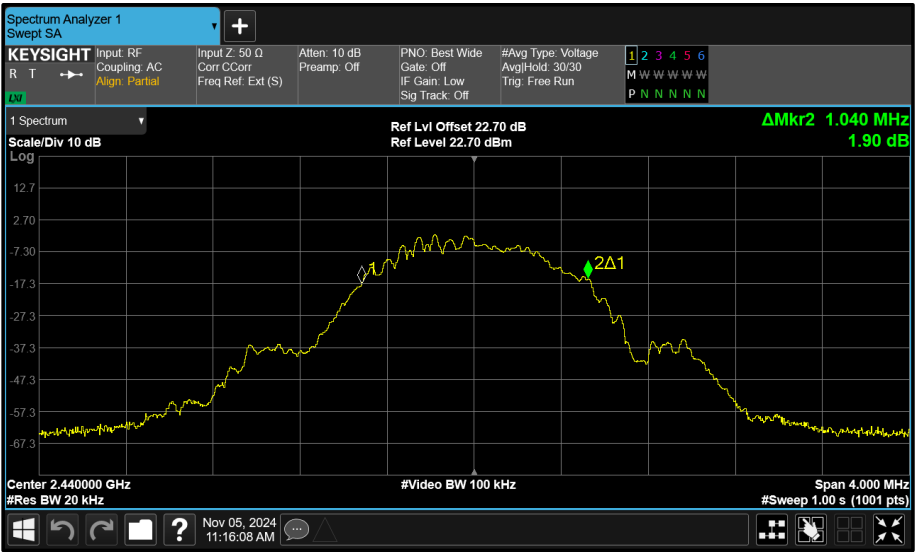


Figure 185 - Core 0 (A) 2440 MHz (CH17) 99% Bandwidth

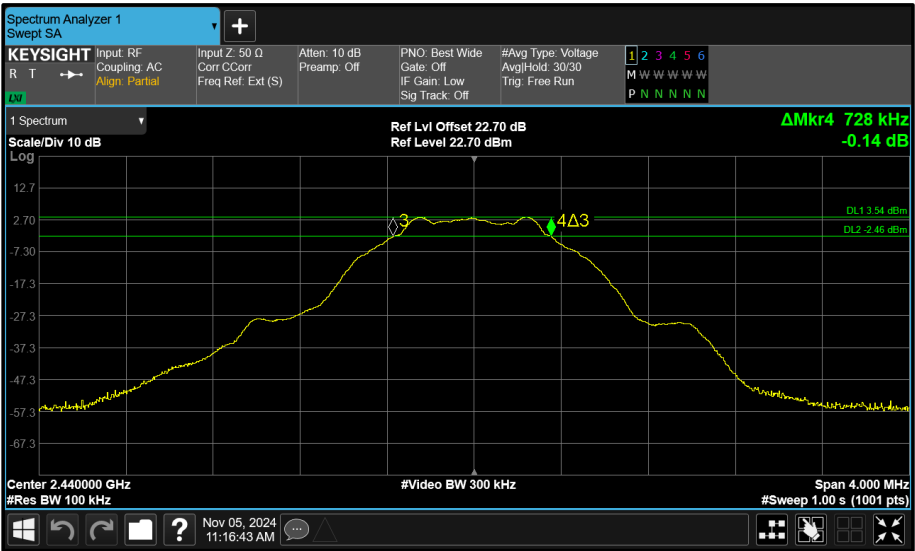


Figure 186 - Core 0 (A) 2440 MHz (CH17) 6 dB Bandwidth

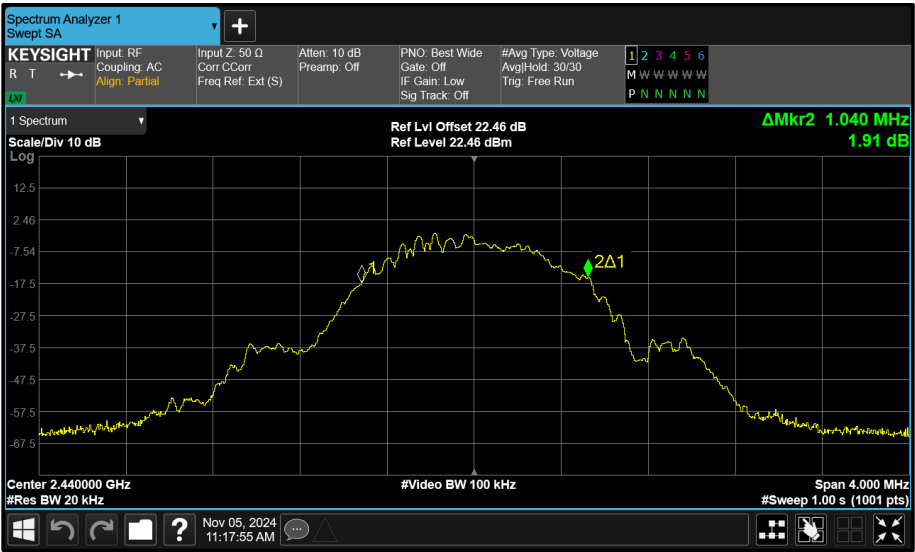


Figure 187 - Core 1 (B) 2440 MHz (CH17) 99% Bandwidth

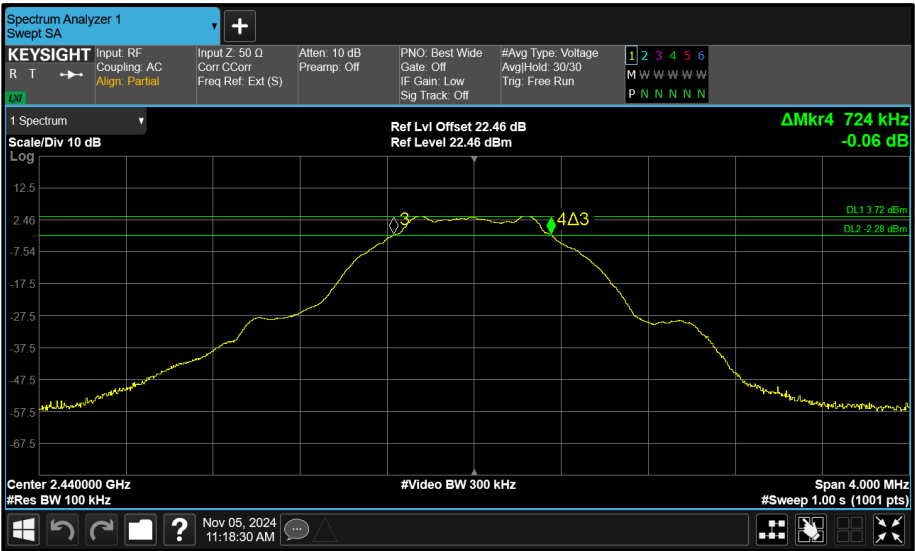


Figure 188 - Core 1 (B) 2440 MHz (CH17) 6 dB Bandwidth

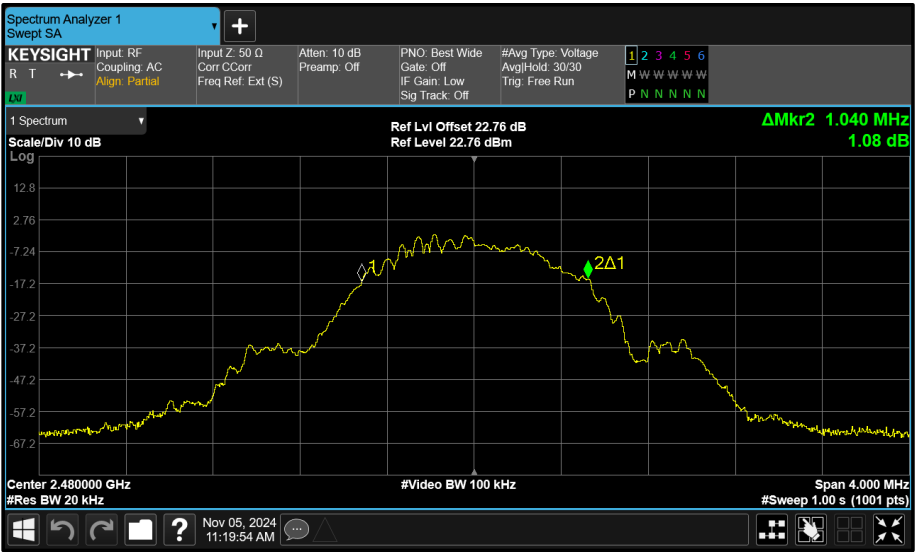


Figure 189 - Core 0 (A) 2480 MHz (CH39) 99% Bandwidth

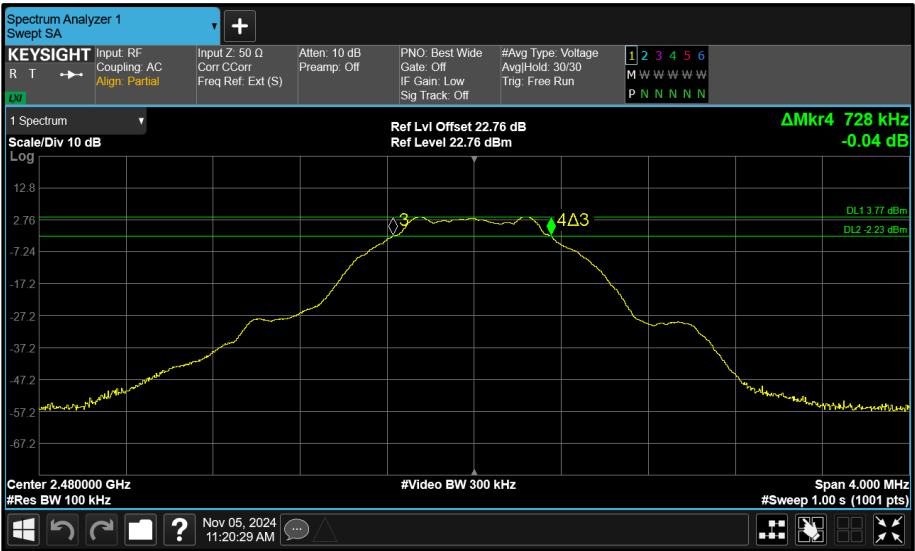


Figure 190 - Core 0 (A) 2480 MHz (CH39) 6 dB Bandwidth

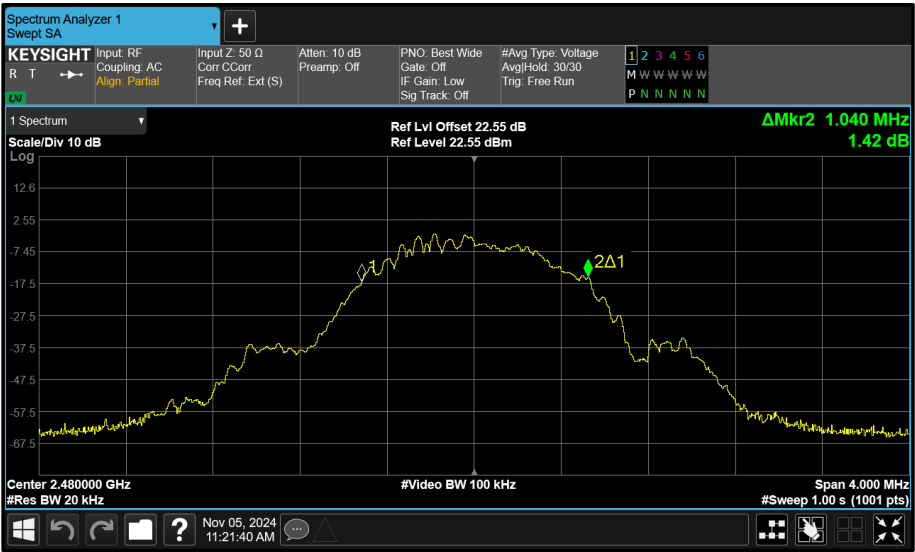


Figure 191 - Core 1 (B) 2480 MHz (CH39) 99% Bandwidth

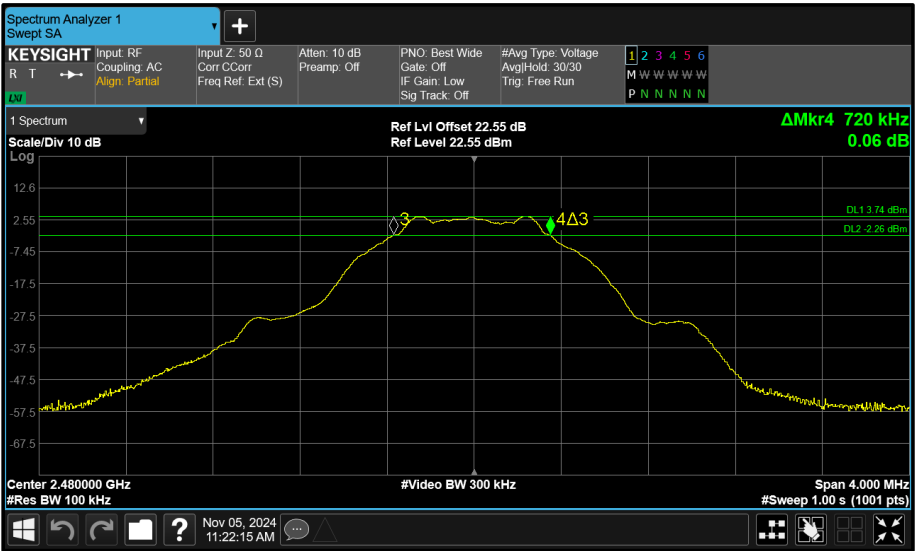


Figure 192 - Core 1 (B) 2480 MHz (CH39) 6 dB Bandwidth



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (LE 2M)	Duty Cycle (%):	-
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	1.280	1.272	-	-	≥500.0
2440	1.272	1.280	-	-	≥500.0
2480	1.280	1.296	-	-	≥500.0

Table 47 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2402	2.088	2.096	-	-	-
2440	2.088	2.096	-	-	-
2480	2.088	2.088	-	-	-

Table 48 - 99% Bandwidth Results

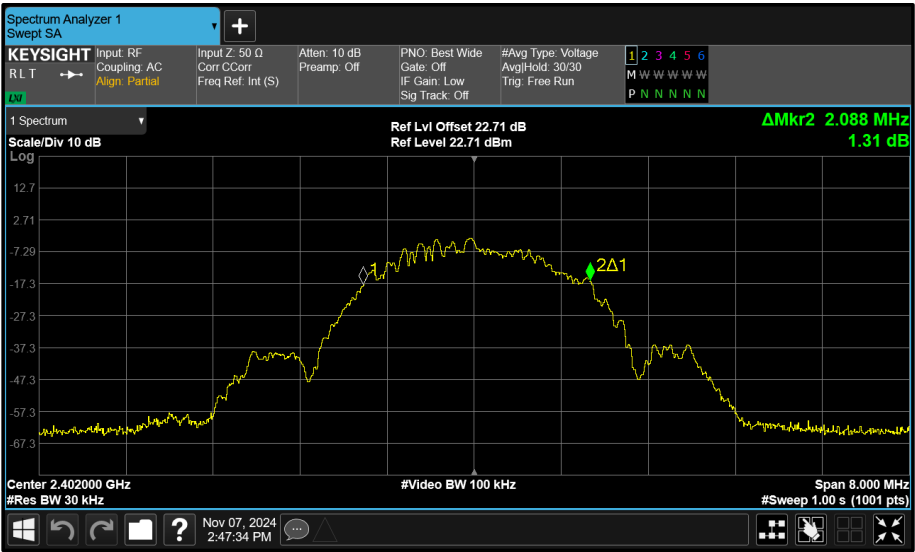


Figure 193 - Core 0 (A) 2402 MHz (CH37) 99% Bandwidth

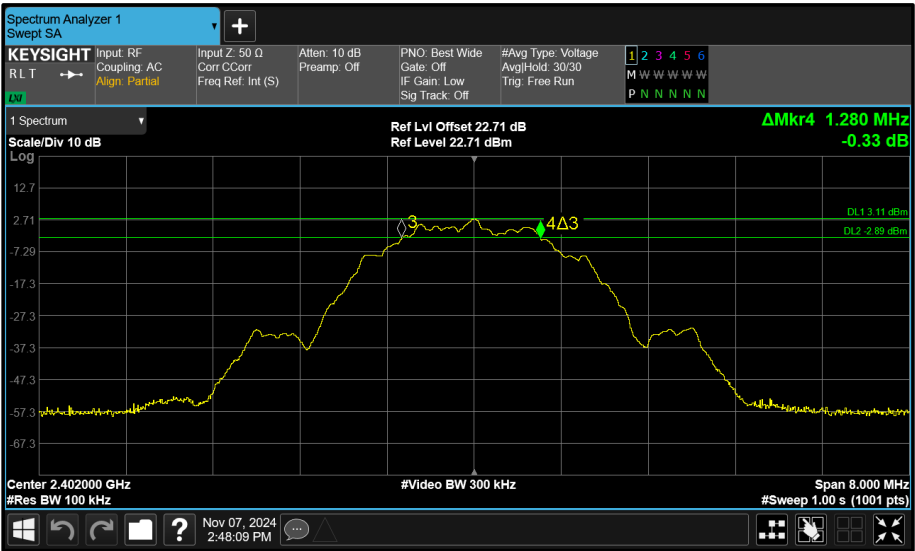


Figure 194 - Core 0 (A) 2402 MHz (CH37) 6 dB Bandwidth

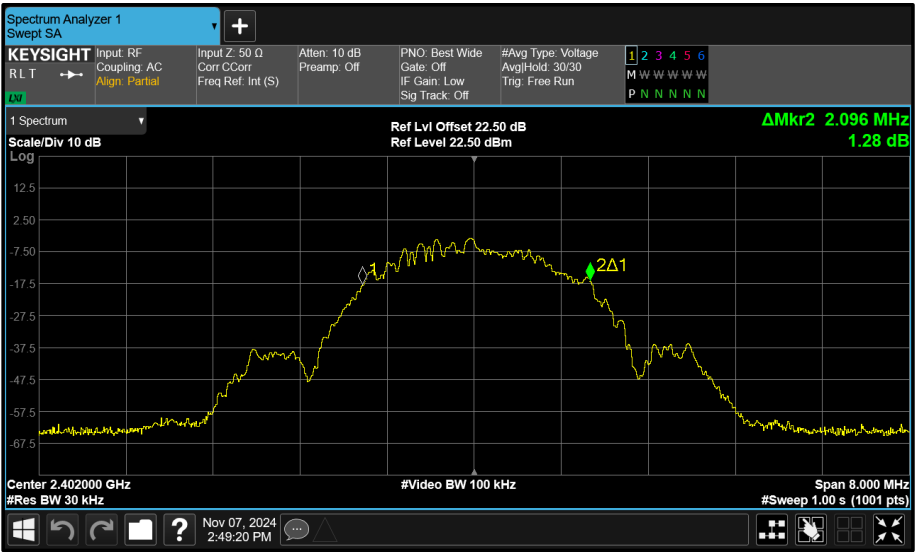


Figure 195 - Core 1 (B) 2402 MHz (CH37) 99% Bandwidth

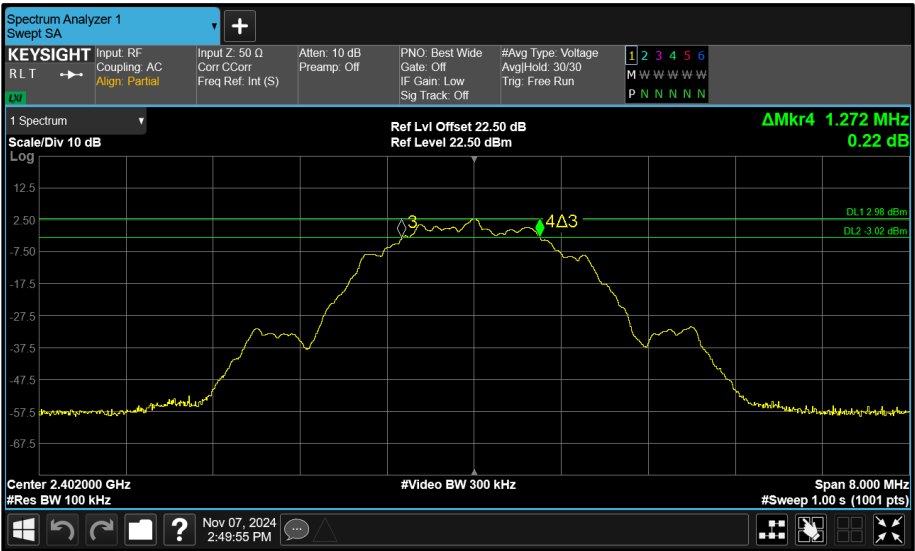


Figure 196 - Core 1 (B) 2402 MHz (CH37) 6 dB Bandwidth

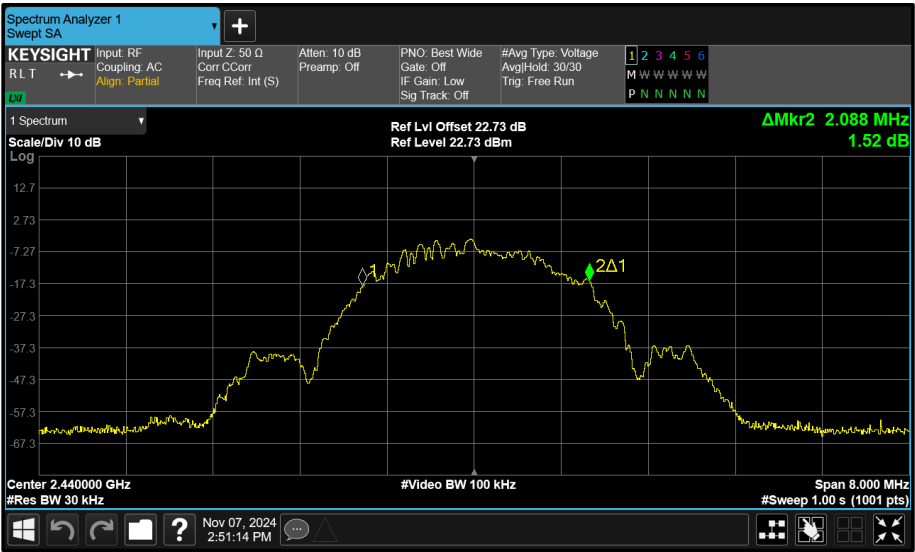


Figure 197 - Core 0 (A) 2440 MHz (CH17) 99% Bandwidth

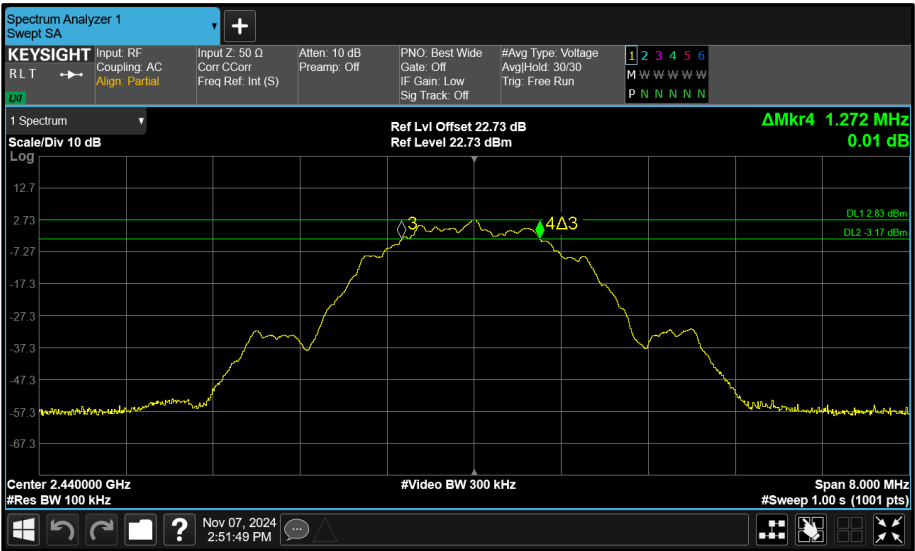


Figure 198 - Core 0 (A) 2440 MHz (CH17) 6 dB Bandwidth

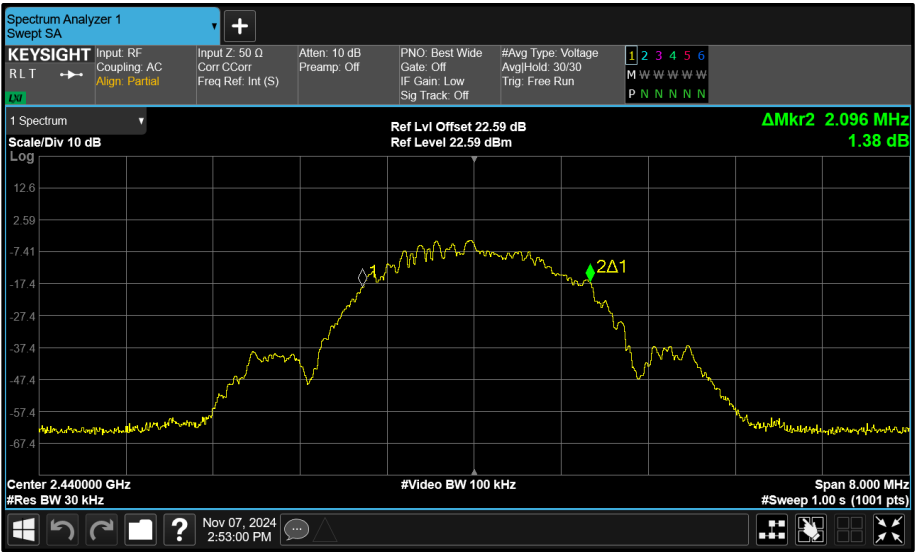


Figure 199 - Core 1 (B) 2440 MHz (CH17) 99% Bandwidth

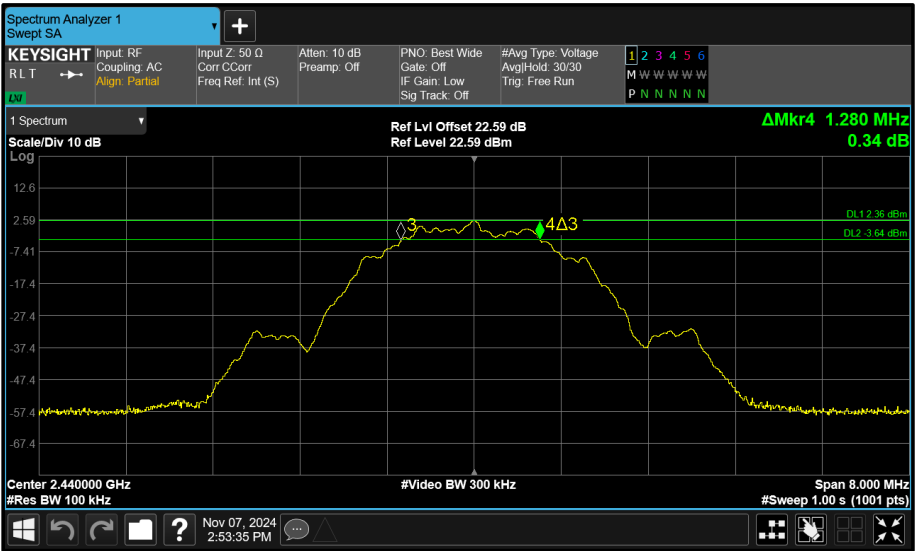


Figure 200 - Core 1 (B) 2440 MHz (CH17) 6 dB Bandwidth

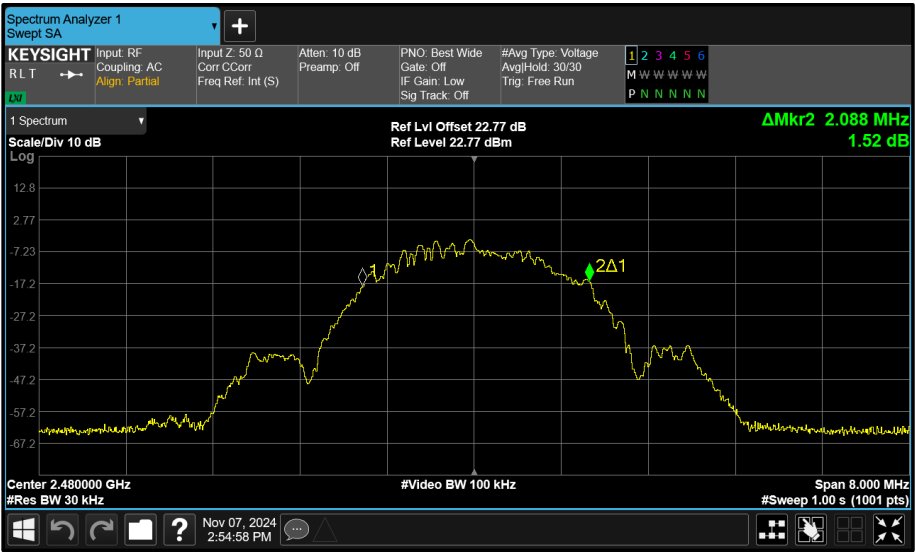


Figure 201 - Core 0 (A) 2480 MHz (CH39) 99% Bandwidth

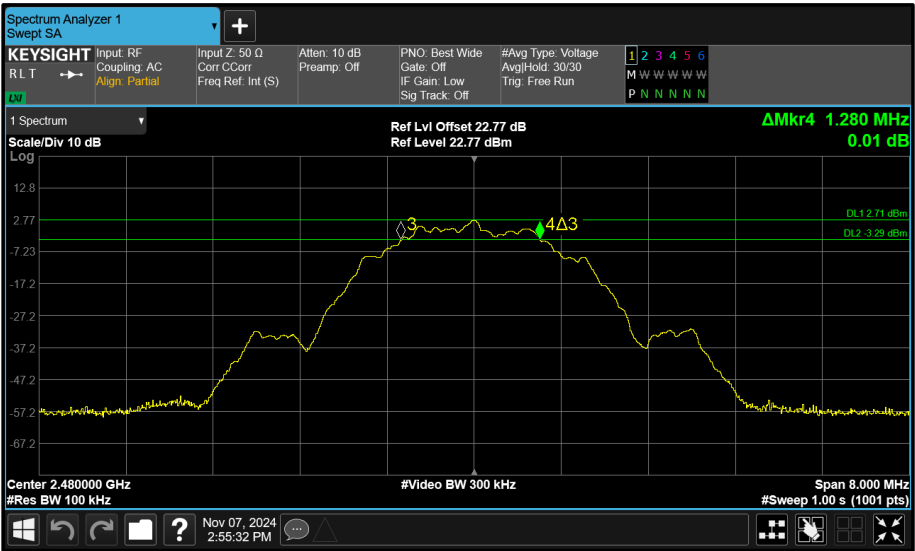


Figure 202 - Core 0 (A) 2480 MHz (CH39) 6 dB Bandwidth

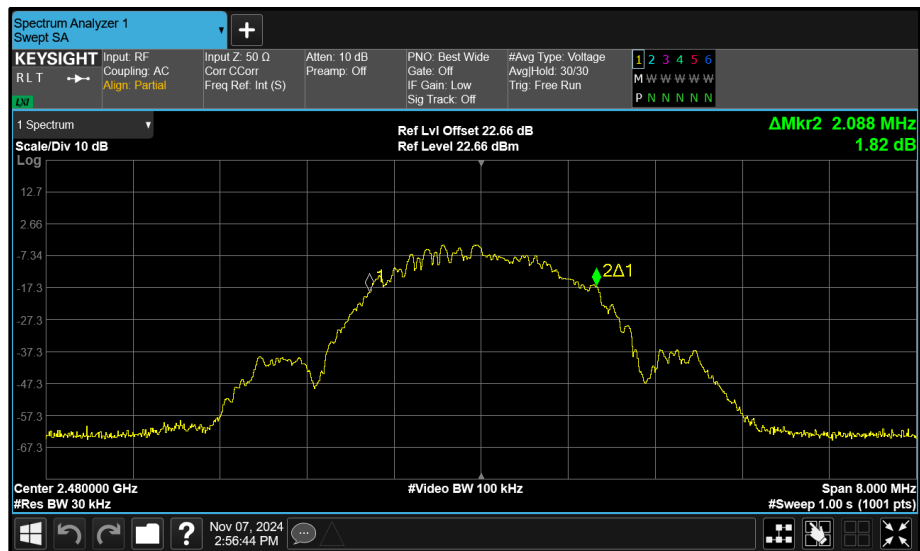


Figure 203 - Core 1 (B) 2480 MHz (CH39) 99% Bandwidth

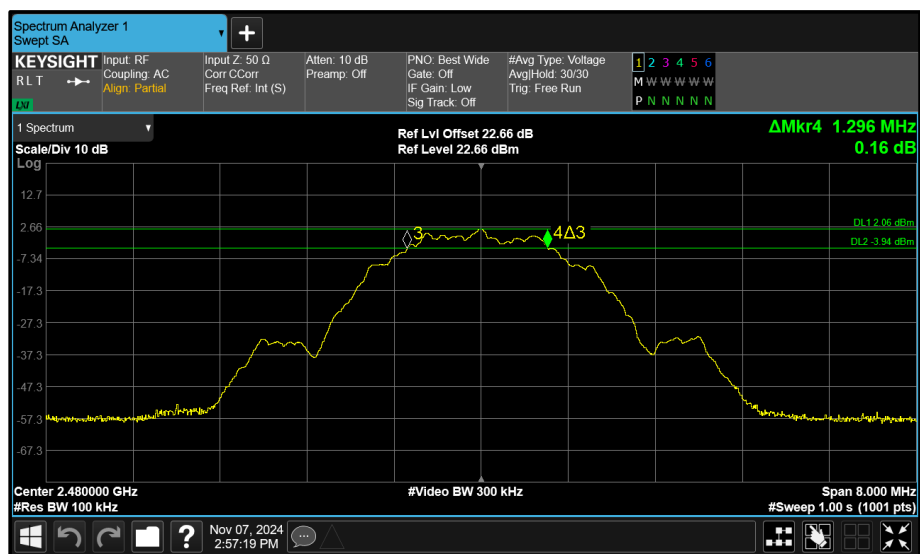


Figure 204 - Core 1 (B) 2480 MHz (CH39) 6 dB Bandwidth

FCC 47 CFR Part 15, Limit Clause 15.247(a)(2) and ISED RSS-247, Clause 5.2(a)

The minimum 6 dB Bandwidth shall be at least 500 kHz.



2.2.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 18 and RF Laboratory 2.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
True RMS Multimeter	Fluke	79 Series III	411	12	12-Jan-2025
Hygrometer	Rotronic	Hygropalm 0	3028	12	12-Aug-2025
Hygrometer	Rotronic	I-1000	3068	12	07-Nov-2024
AC Programmable Power Supply	iTech	IT7324	5225	-	O/P Mon
MXA Signal Analyser	Keysight Technologies	N9020B	5528	24	18-Sep-2025
MXA Signal Analyser	Keysight Technologies	N9020B	5529	24	13-Dec-2024
Digital Multimeter	Fluke	115	6145	12	06-Jun-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6350	12	02-Aug-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6426	12	07-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6638	12	02-Aug-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6639	12	02-Aug-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6752	12	06-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6753	12	06-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6754	12	06-Feb-2025

Table 49

O/P Mon - Output Monitored using calibrated equipment



2.3 Maximum Conducted Output Power

2.3.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (b)
ISED RSS-247, Clause 5.4
ISED RSS-GEN, Clause 6.12

2.3.2 Equipment Under Test and Modification State

A3241, S/N: G0Q65Y9HP6 - Modification State 0
A3241, S/N: FWKQMY7GHY - Modification State 0

2.3.3 Date of Test

05-November-2024 to 07-November-2024

2.3.4 Test Method

The test was performed in accordance with ANSI C63.10 clause 11.9.1.2 Method PKPM1.

MIMO output port summing was performed in accordance with KDB 662911 D01. Directional Gain was calculated in accordance with clause F)2)f)(ii) using the calculations from F)2)f)(i) with worst-case individual gain and an array gain of zero.

2.3.5 Environmental Conditions

Ambient Temperature	21.1 - 21.9 °C
Relative Humidity	49.6 - 53.2 %



2.3.6 Test Results

2.4 GHz Bluetooth LE/HDR/HDR

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA $\pi/4$ DQPSK (4-DH5)	Duty Cycle (%):	78.1
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	A (Core 0)	Peak Antenna Gain (dBi):	5.40

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2404	17.50	-	-	-	-	30.00	-12.50
2441	17.10	-	-	-	-	30.00	-12.90
2476	17.28	-	-	-	-	30.00	-12.72

Table 50 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2404	17.50	-	-	-	-	30.00	-12.50	22.90	36.00	-13.10
2441	17.10	-	-	-	-	30.00	-12.90	22.50	36.00	-13.50
2476	17.28	-	-	-	-	30.00	-12.72	22.68	36.00	-13.32

Table 51 - ISED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA $\pi/4$ DQPSK (8-DH5)	Duty Cycle (%):	78.2
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	A (Core 0)	Peak Antenna Gain (dBi):	5.40

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2404	15.85	-	-	-	-	30.00	-14.15
2441	15.98	-	-	-	-	30.00	-14.02
2476	15.88	-	-	-	-	30.00	-14.12

Table 52 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2404	15.85	-	-	-	-	30.00	-14.15	21.25	36.00	-14.75
2441	15.98	-	-	-	-	30.00	-14.02	21.38	36.00	-14.62
2476	15.88	-	-	-	-	30.00	-14.12	21.28	36.00	-14.72

Table 53 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	ePA $\pi/4$ DQPSK (4-DH5)	Duty Cycle (%):	78.1
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.26

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2404	16.91	17.17	-	-	19.98	27.74	-7.76
2441	17.47	17.10	-	-	20.27	27.74	-7.47
2476	17.46	17.29	-	-	20.37	27.74	-7.36

Table 54 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2404	16.91	17.17	-	-	19.98	30.00	-10.02	28.24	36.00	-7.76
2441	17.47	17.10	-	-	20.27	30.00	-9.73	28.53	36.00	-7.47
2476	17.46	17.29	-	-	20.37	30.00	-9.63	28.64	36.00	-7.36

Table 55 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	ePA $\pi/4$ DQPSK (8-DH5)	Duty Cycle (%):	78.2
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.26

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2404	16.04	15.87	-	-	18.94	27.74	-8.80
2441	15.85	15.54	-	-	18.67	27.74	-9.07
2476	16.25	15.95	-	-	19.05	27.74	-8.69

Table 56 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2404	16.04	15.87	-	-	18.94	30.00	-11.06	27.20	36.00	-8.80
2441	15.85	15.54	-	-	18.67	30.00	-11.33	26.93	36.00	-9.07
2476	16.25	15.95	-	-	19.05	30.00	-10.95	27.31	36.00	-8.69

Table 57 - ISED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA GFSK (LE 1M)	Duty Cycle (%):	60.6
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	A (Core 0)	Peak Antenna Gain (dBi):	5.40

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2402	15.11	-	-	-	-	30.00	-14.89
2440	15.23	-	-	-	-	30.00	-14.77
2480	15.19	-	-	-	-	30.00	-14.81

Table 58 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2402	15.11	-	-	-	-	30.00	-14.89	20.51	36.00	-15.49
2440	15.23	-	-	-	-	30.00	-14.77	20.63	36.00	-15.37
2480	15.19	-	-	-	-	30.00	-14.81	20.59	36.00	-15.41

Table 59 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA GFSK (LE 2M)	Duty Cycle (%):	31.4
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	A (Core 0)	Peak Antenna Gain (dBi):	5.40

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2402	15.57	-	-	-	-	30.00	-14.43
2440	15.39	-	-	-	-	30.00	-14.61
2480	15.35	-	-	-	-	30.00	-14.65

Table 60 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2402	15.57	-	-	-	-	30.00	-14.43	20.97	36.00	-15.03
2440	15.39	-	-	-	-	30.00	-14.61	20.79	36.00	-15.21
2480	15.35	-	-	-	-	30.00	-14.65	20.75	36.00	-15.25

Table 61 - ISM Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	ePA GFSK (LE 1M)	Duty Cycle (%):	60.6
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.26

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2402	15.45	15.57	-	-	18.50	27.74	-9.24
2440	15.10	14.79	-	-	17.92	27.74	-9.82
2480	15.04	14.93	-	-	17.93	27.74	-9.81

Table 62 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2402	15.45	15.57	-	-	18.50	30.00	-11.50	26.76	36.00	-9.24
2440	15.10	14.79	-	-	17.92	30.00	-12.08	26.18	36.00	-9.82
2480	15.04	14.93	-	-	17.93	30.00	-12.07	26.19	36.00	-9.81

Table 63 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	ePA GFSK (LE 2M)	Duty Cycle (%):	31.4
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.26

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2402	15.19	15.81	-	-	18.48	27.74	-9.26
2440	15.40	15.01	-	-	18.21	27.74	-9.53
2480	15.20	14.94	-	-	18.06	27.74	-9.68

Table 64 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2402	15.19	15.81	-	-	18.48	30.00	-11.52	26.74	36.00	-9.26
2440	15.40	15.01	-	-	18.21	30.00	-11.79	26.47	36.00	-9.53
2480	15.20	14.94	-	-	18.06	30.00	-11.94	26.32	36.00	-9.68

Table 65 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA $\pi/4$ DQPSK (4-DH5)	Duty Cycle (%):	78.1
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	A (Core 0)	Peak Antenna Gain (dBi):	5.40

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2404	9.55	-	-	-	-	30.00	-20.45
2441	9.05	-	-	-	-	30.00	-20.95
2476	9.31	-	-	-	-	30.00	-20.69

Table 66 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2404	9.55	-	-	-	-	30.00	-20.45	14.95	36.00	-21.05
2441	9.05	-	-	-	-	30.00	-20.95	14.45	36.00	-21.55
2476	9.31	-	-	-	-	30.00	-20.69	14.71	36.00	-21.29

Table 67 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA $\pi/4$ DQPSK (8-DH5)	Duty Cycle (%):	78.5
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	A (Core 0)	Peak Antenna Gain (dBi):	5.40

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2404	9.60	-	-	-	-	30.00	-20.40
2441	9.77	-	-	-	-	30.00	-20.23
2476	9.68	-	-	-	-	30.00	-20.32

Table 68 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2404	9.60	-	-	-	-	30.00	-20.40	15.00	36.00	-21.00
2441	9.77	-	-	-	-	30.00	-20.23	15.17	36.00	-20.83
2476	9.68	-	-	-	-	30.00	-20.32	15.08	36.00	-20.92

Table 69 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	iPA $\pi/4$ DQPSK (4-DH5)	Duty Cycle (%):	78.1
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.26

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2404	8.75	9.24	-	-	11.95	27.74	-15.79
2441	9.44	8.96	-	-	12.17	27.74	-15.57
2476	9.42	9.31	-	-	12.31	27.74	-15.43

Table 70 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2404	8.75	9.24	-	-	11.95	30.00	-18.05	20.21	36.00	-15.79
2441	9.44	8.96	-	-	12.17	30.00	-17.83	20.43	36.00	-15.57
2476	9.42	9.31	-	-	12.31	30.00	-17.69	20.57	36.00	-15.43

Table 71 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	iPA $\pi/4$ DQPSK (8-DH5)	Duty Cycle (%):	78.5
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.26

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2404	9.67	9.51	-	-	12.57	27.74	-15.17
2441	9.68	9.30	-	-	12.46	27.74	-15.28
2476	9.65	9.59	-	-	12.59	27.74	-15.15

Table 72 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2404	9.67	9.51	-	-	12.57	30.00	-17.43	20.83	36.00	-15.17
2441	9.68	9.30	-	-	12.46	30.00	-17.54	20.72	36.00	-15.28
2476	9.65	9.59	-	-	12.59	30.00	-17.41	20.85	36.00	-15.15

Table 73 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (LE 1M)	Duty Cycle (%):	60.5
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	5.10

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2402	-	4.91	-	-	-	30.00	-25.09
2440	-	5.12	-	-	-	30.00	-24.88
2480	-	5.02	-	-	-	30.00	-24.98

Table 74 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2402	-	4.91	-	-	-	30.00	-25.09	10.01	36.00	-25.99
2440	-	5.12	-	-	-	30.00	-24.88	10.22	36.00	-25.78
2480	-	5.02	-	-	-	30.00	-24.98	10.12	36.00	-25.88

Table 75 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (LE 2M)	Duty Cycle (%):	31.3
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	5.10

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2402	-	5.05	-	-	-	30.00	-24.95
2440	-	4.96	-	-	-	30.00	-25.04
2480	-	5.11	-	-	-	30.00	-24.89

Table 76 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2402	-	5.05	-	-	-	30.00	-24.95	10.15	36.00	-25.85
2440	-	4.96	-	-	-	30.00	-25.04	10.06	36.00	-25.94
2480	-	5.11	-	-	-	30.00	-24.89	10.21	36.00	-25.79

Table 77 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	iPA GFSK (LE 1M)	Duty Cycle (%):	60.5
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.26

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2402	4.79	4.74	-	-	7.66	27.74	-20.08
2440	4.81	4.87	-	-	7.81	27.74	-19.93
2480	5.05	4.84	-	-	7.93	27.74	-19.81

Table 78 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2402	4.79	4.74	-	-	7.66	30.00	-22.34	15.92	36.00	-20.08
2440	4.81	4.87	-	-	7.81	30.00	-22.19	16.07	36.00	-19.93
2480	5.05	4.84	-	-	7.93	30.00	-22.07	16.19	36.00	-19.81

Table 79 - ISSED Maximum Conducted (peak) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.1.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	iPA GFSK (LE 2M)	Duty Cycle (%):	31.3
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.26

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2402	5.15	5.06	-	-	8.04	27.74	-19.70
2440	4.78	4.54	-	-	7.62	27.74	-20.11
2480	4.84	4.68	-	-	7.75	27.74	-19.98

Table 80 - FCC Maximum Conducted (peak) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2402	5.15	5.06	-	-	8.04	30.00	-21.96	16.30	36.00	-19.70
2440	4.78	4.54	-	-	7.62	30.00	-22.38	15.89	36.00	-20.11
2480	4.84	4.68	-	-	7.75	30.00	-22.25	16.02	36.00	-19.98

Table 81 - ISED Maximum Conducted (peak) Output Power Results

FCC 47 CFR Part 15, Limit Clause 15.247 (b)(3)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

ISED RSS-247, Limit Clause 5.4 (d)

For DTSS employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e) of the specification.



2.3.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 18 and RF Laboratory 2.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
True RMS Multimeter	Fluke	79 Series III	411	12	12-Jan-2025
Hygrometer	Rotronic	Hygropalm 0	3028	12	12-Aug-2025
Hygrometer	Rotronic	I-1000	3068	12	07-Nov-2024
AC Programmable Power Supply	iTech	IT7324	5225	-	O/P Mon
USB Power Sensor	Boonton	RTP5008	5820	12	07-Feb-2025
USB Power Sensor	Boonton	RTP5008	5821	12	07-Feb-2025
USB Power Sensor	Boonton	RTP5008	5833	12	26-Jul-2025
USB Power Sensor	Boonton	RTP5008	5834	12	26-Jul-2025
Digital Multimeter	Fluke	115	6145	12	06-Jun-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6350	12	02-Aug-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6426	12	07-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6638	12	02-Aug-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6639	12	02-Aug-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6752	12	06-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6753	12	06-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6754	12	06-Feb-2025

Table 82

O/P Mon - Output Monitored using calibrated equipment



2.4 Authorised Band Edges

2.4.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (d)
ISED RSS-247, Clause 5.5

2.4.2 Equipment Under Test and Modification State

A3241, S/N: HJKCRQM3K9 - Modification State 0

2.4.3 Date of Test

28-September-2024 to 30-September-2024

2.4.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 6.10.4.

2.4.5 Environmental Conditions

Ambient Temperature	20.4 - 23.2 °C
Relative Humidity	41.2 - 46.7 %

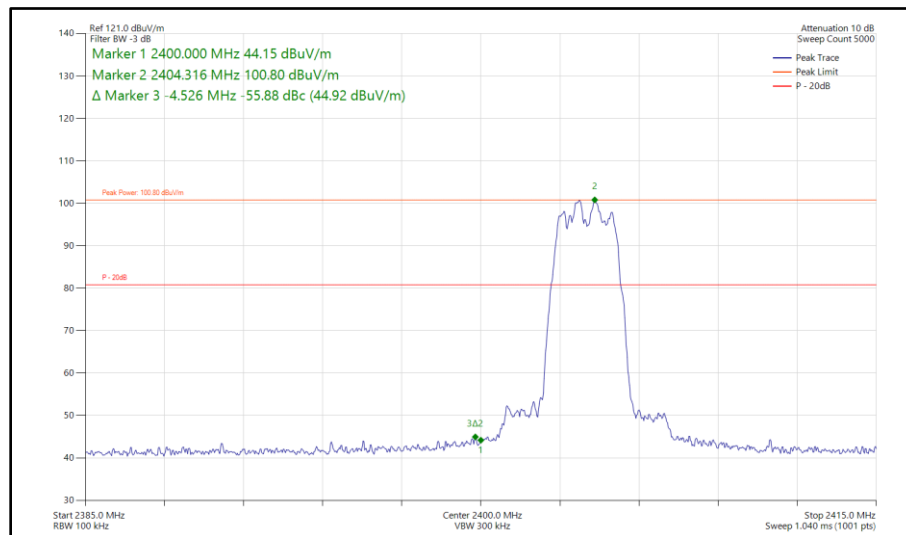
2.4.6 Test Results

2.4 GHz Bluetooth LE/HDR/HDR

iPA - Core 0 (SISO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Static	HDR4	2404	2400	-55.88
Static	HDR8	2404	2400	-45.06
Static	LE1M	2402	2400	-64.59
Static	LE2M	2402	2400	-32.86

Table 83 - SISO Authorised Band Edge Results



**Figure 205 - Bluetooth HDR4, SISO, Core 0 - 2404 MHz
Band Edge Frequency 2400 MHz**

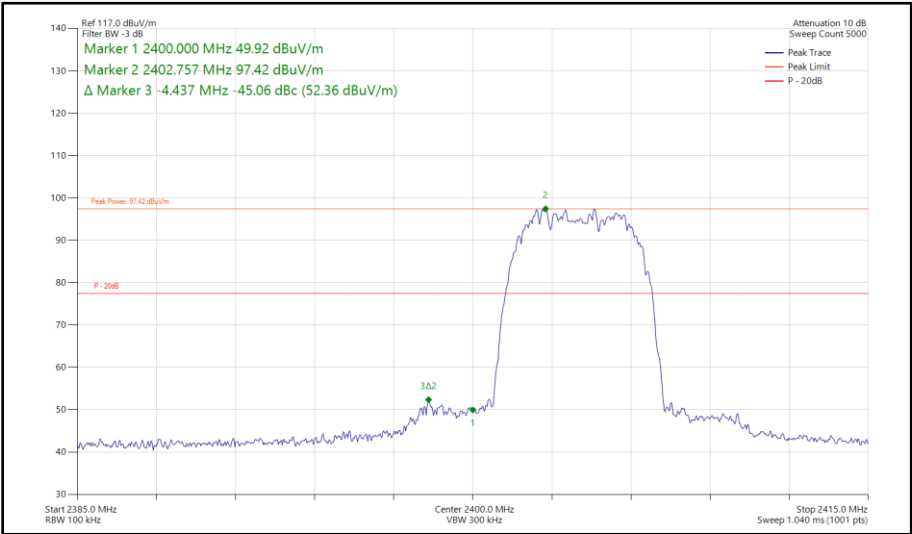


Figure 206 - Bluetooth HDR8, SISO, Core 0 - 2404 MHz
Band Edge Frequency 2400 MHz

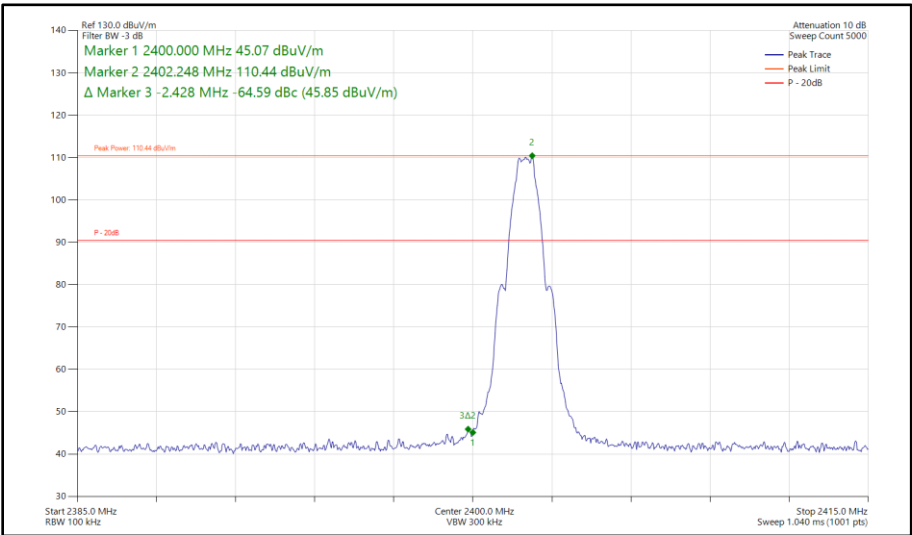


Figure 207 - Bluetooth LE1M, SISO, Core 0 - 2402 MHz
Band Edge Frequency 2400 MHz

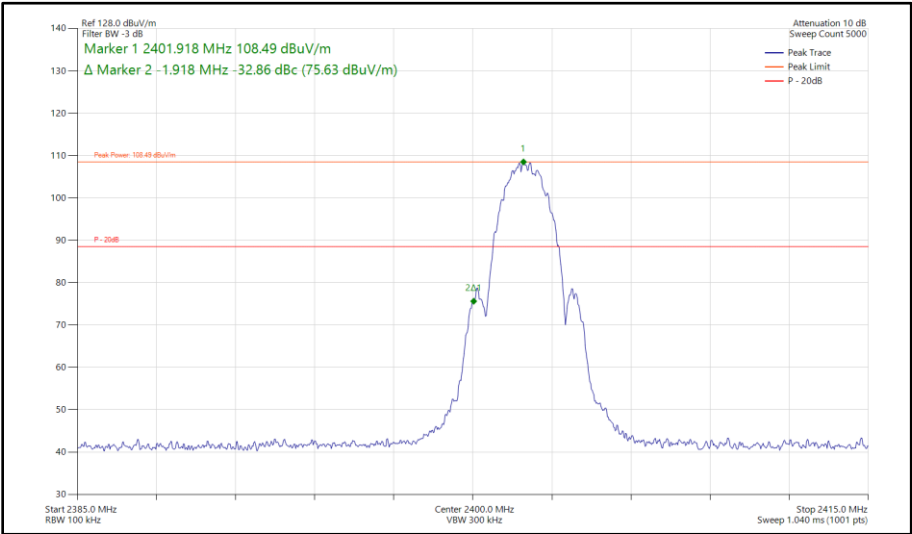


Figure 208 - Bluetooth LE2M, SISO, Core 0 - 2402 MHz
Band Edge Frequency 2400 MHz

iPA - Core 1 (SISO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Static	HDR4	2404	2400	-57.13
Static	HDR8	2404	2400	-49.90
Static	LE1M	2402	2400	-61.23
Static	LE2M	2402	2400	-30.56

Table 84 - SISO Authorised Band Edge Results

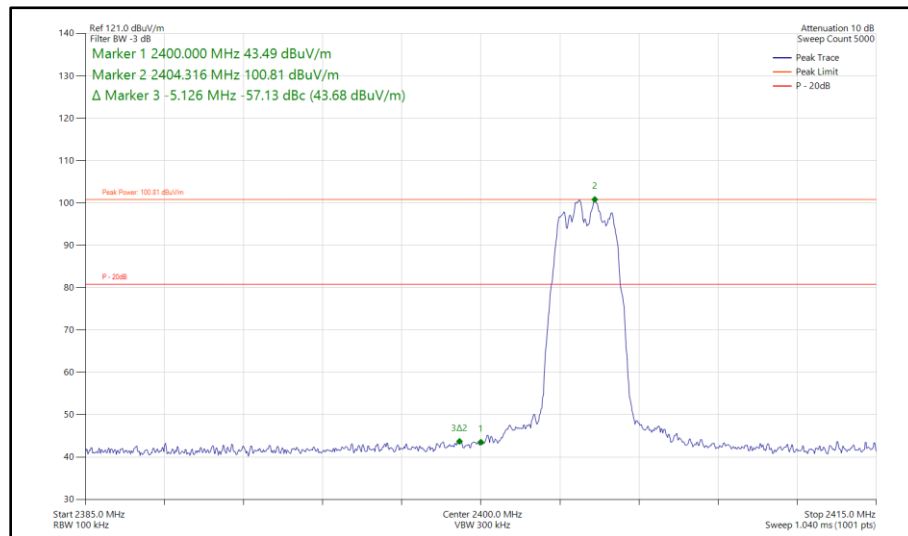


Figure 209 - Bluetooth HDR4, SISO, Core 1 - 2404 MHz
Band Edge Frequency 2400 MHz

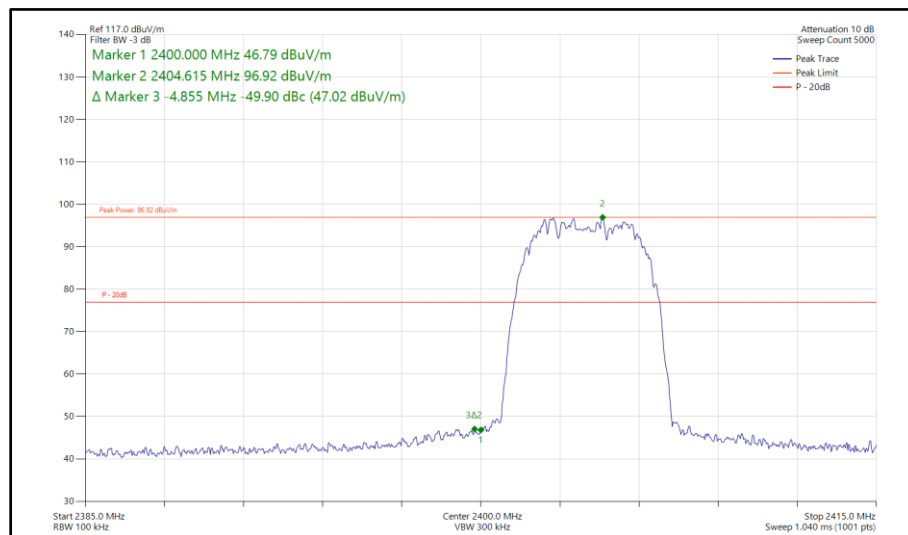


Figure 210 - Bluetooth HDR8, SISO, Core 1 - 2404 MHz
Band Edge Frequency 2400 MHz

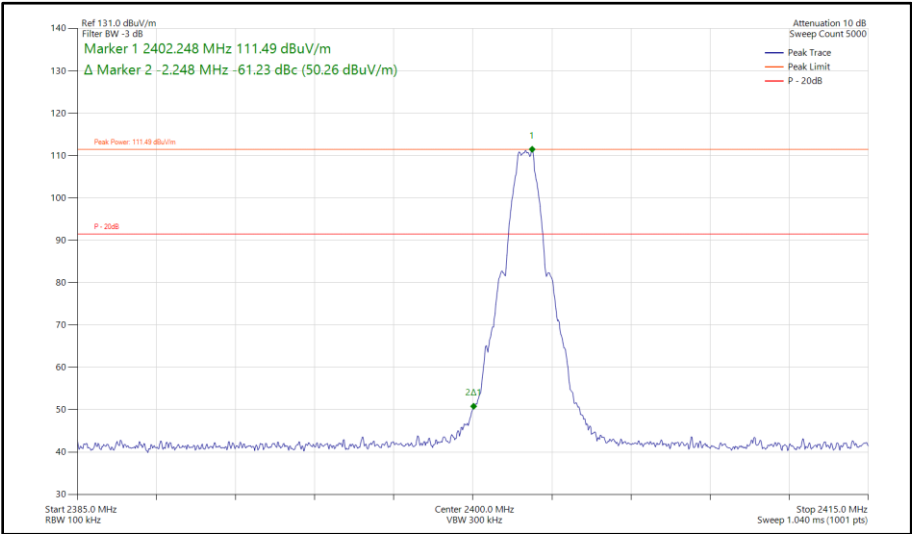


Figure 211 - Bluetooth LE1M, SISO, Core 1 - 2402 MHz
Band Edge Frequency 2400 MHz

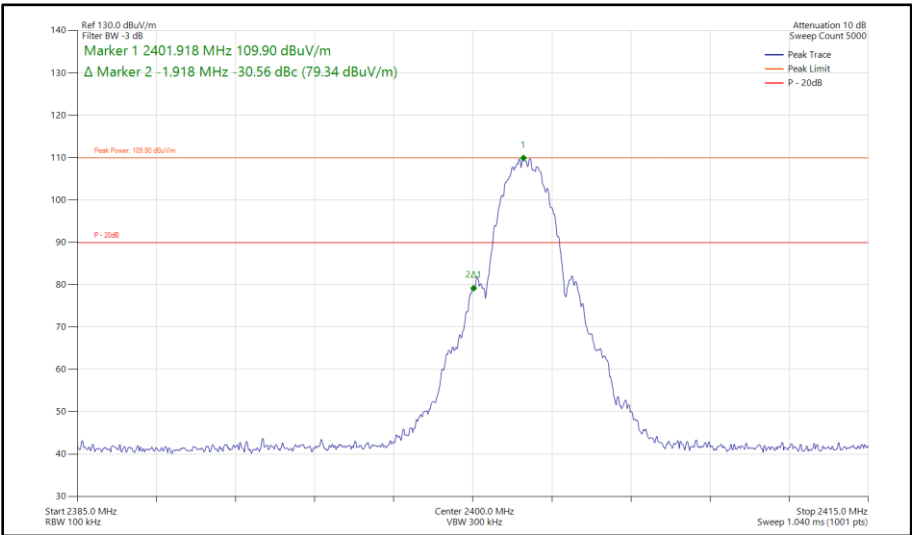


Figure 212 - Bluetooth LE2M, SISO, Core 1 - 2402 MHz
Band Edge Frequency 2400 MHz

iPA - Core 0 - Core 1 (MIMO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Static	HDR4	2404	2400	-59.49
Static	HDR8	2404	2400	-49.87
Static	LE1M	2402	2400	-64.54
Static	LE2M	2402	2400	-31.74

Table 85 - MIMO Authorised Band Edge Results

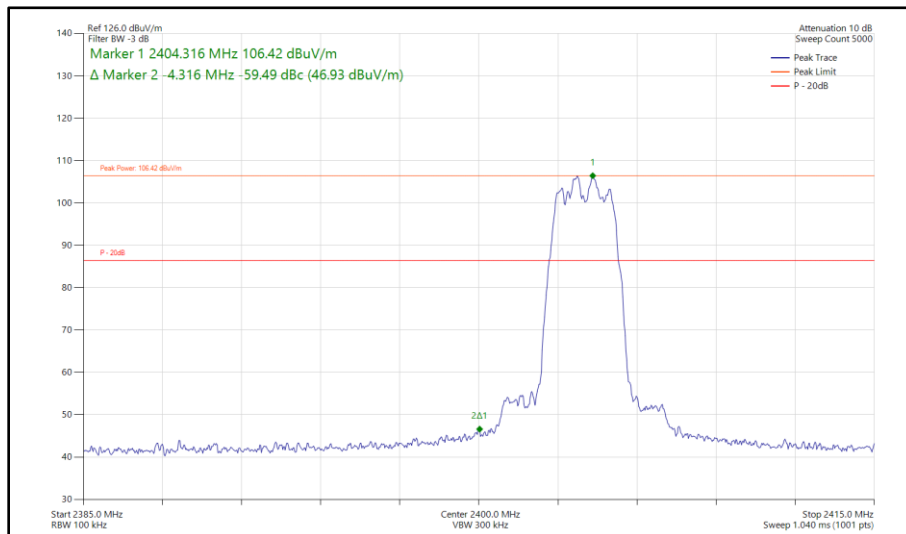


Figure 213 - Bluetooth HDR4, MIMO, Core 0 - Core 1 - 2404 MHz
Band Edge Frequency 2400 MHz

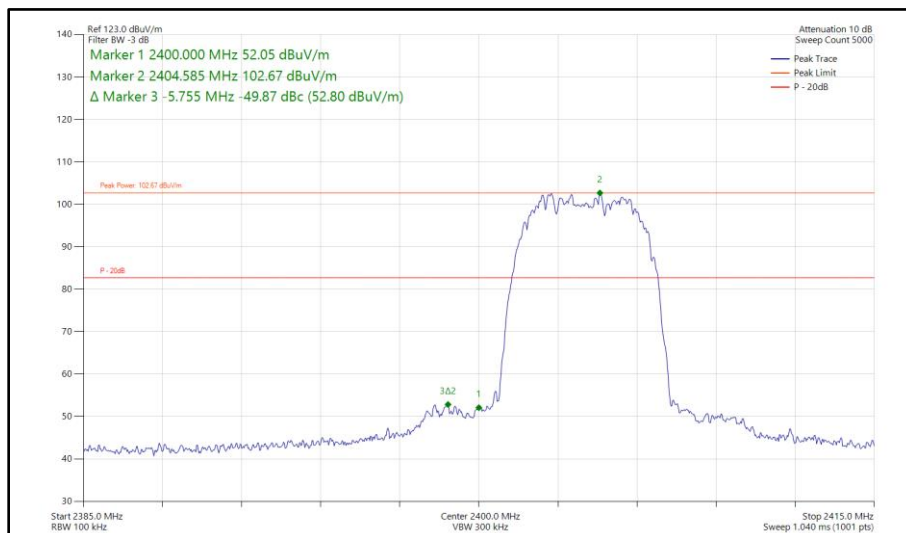


Figure 214 - Bluetooth HDR8, MIMO, Core 0 - Core 1 - 2404 MHz
Band Edge Frequency 2400 MHz

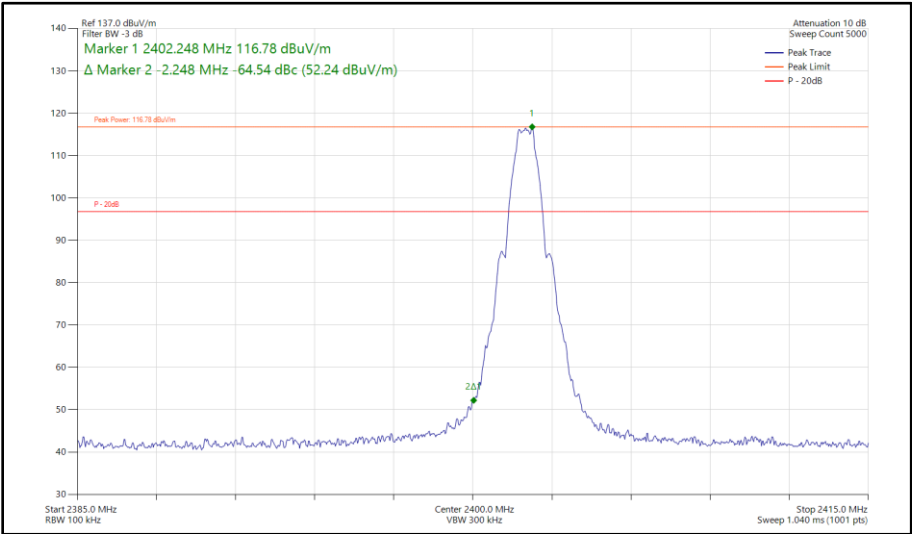


Figure 215 - Bluetooth LE1M, MIMO, Core 0 - Core 1 - 2402 MHz
Band Edge Frequency 2400 MHz

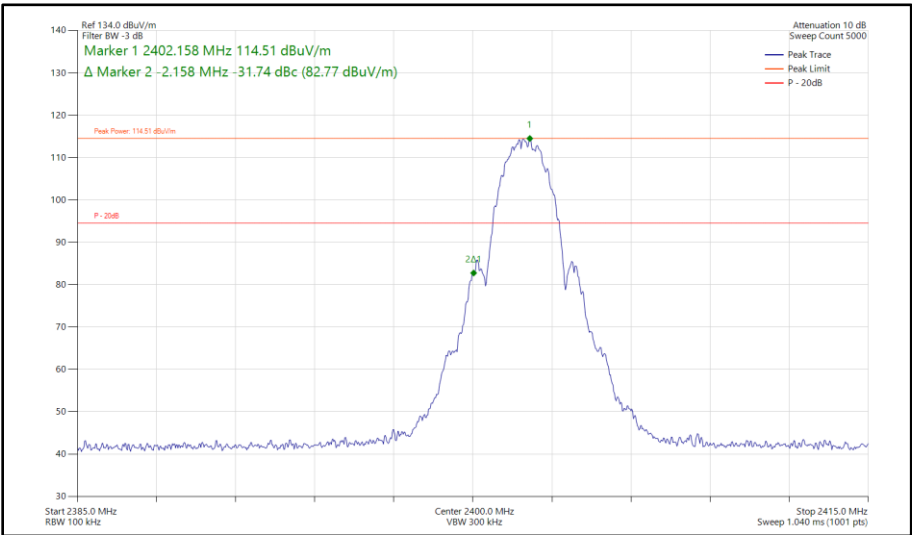


Figure 216 - Bluetooth LE2M, MIMO, Core 0 - Core 1 - 2402 MHz
Band Edge Frequency 2400 MHz



ePA - Core 0 (SISO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Static	HDR4	2404	2400	-57.99
Static	HDR8	2404	2400	-41.74
Static	LE1M	2402	2400	-65.76
Static	LE2M	2402	2400	-34.68

Table 86 - SISO Authorised Band Edge Results

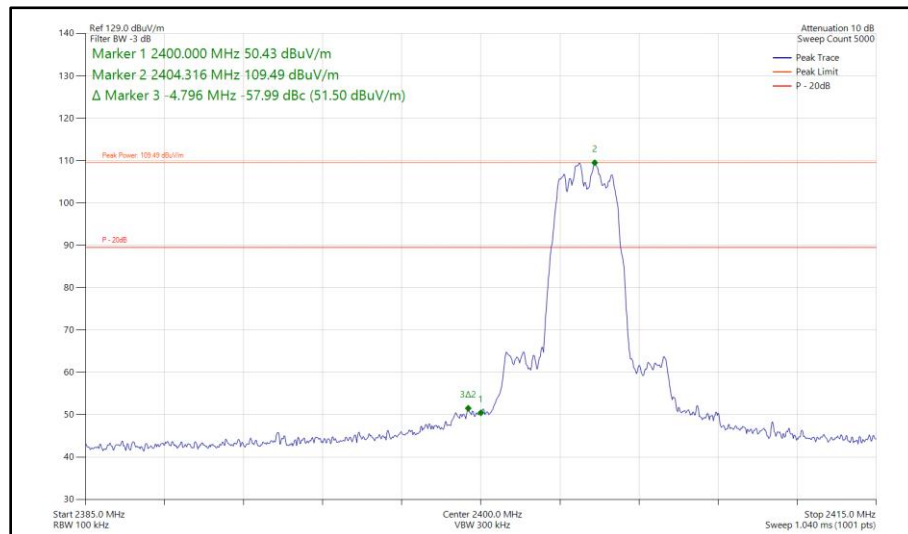


Figure 217 - Bluetooth HDR4, SISO, Core 0 - 2404 MHz
Band Edge Frequency 2400 MHz

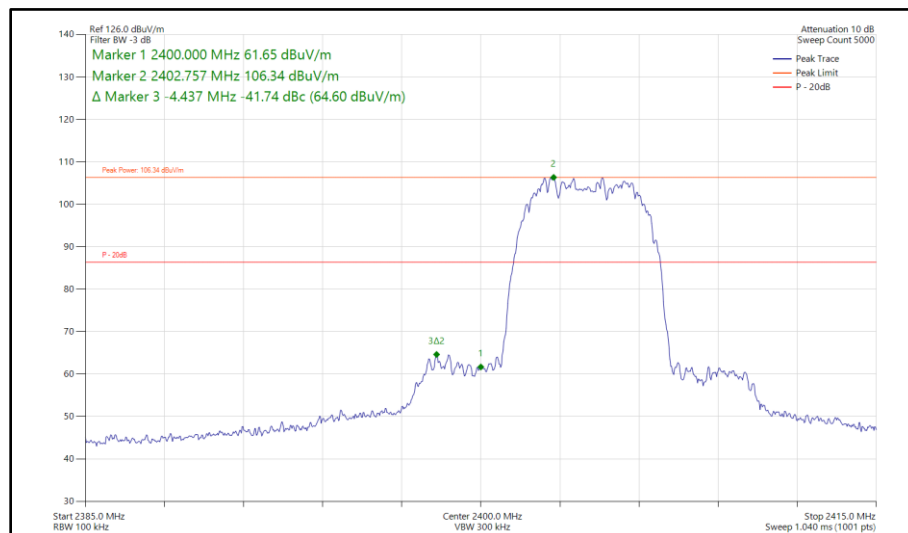


Figure 218 - Bluetooth HDR8, SISO, Core 0 - 2404 MHz
Band Edge Frequency 2400 MHz

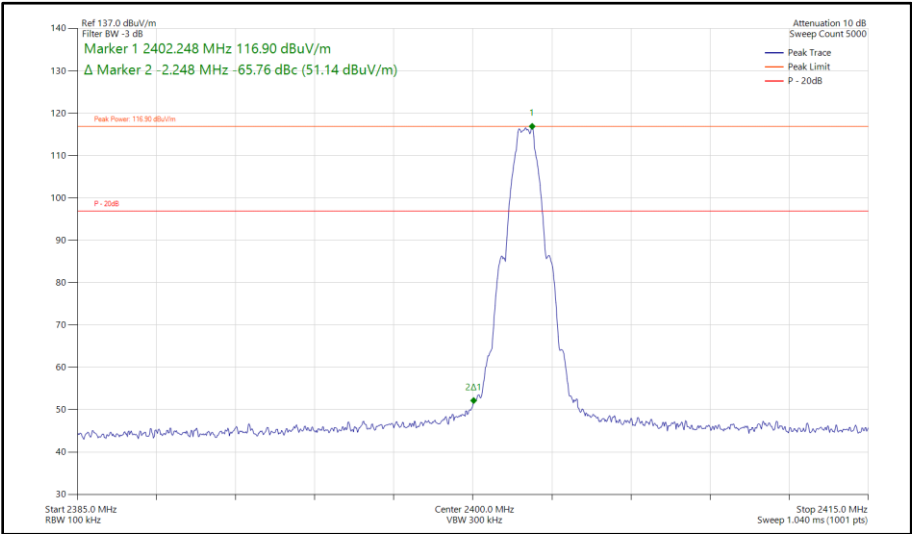


Figure 219 - Bluetooth LE1M, SISO, Core 0 - 2402 MHz
Band Edge Frequency 2400 MHz

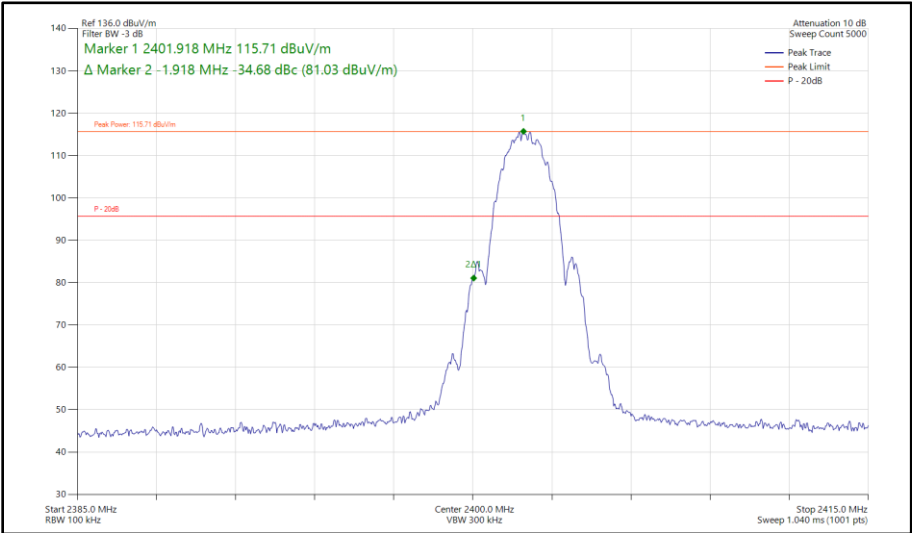


Figure 220 - Bluetooth LE2M, SISO, Core 0 - 2402 MHz
Band Edge Frequency 2400 MHz

ePA - Core 1 (SISO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Static	HDR4	2404	2400	-59.02
Static	HDR8	2404	2400	-48.94
Static	LE1M	2402	2400	-65.43
Static	LE2M	2402	2400	-34.49

Table 87 - SISO Authorised Band Edge Results

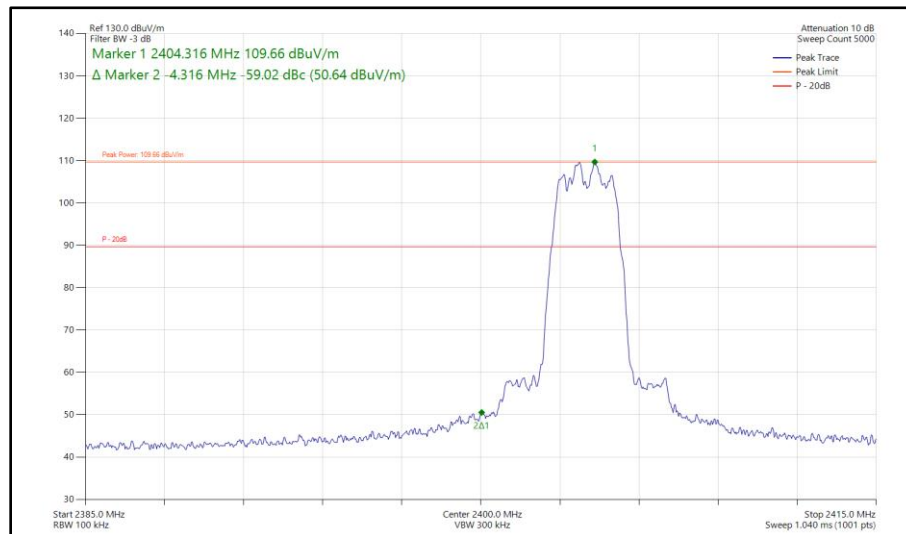


Figure 221 - Bluetooth HDR4, SISO, Core 1 - 2404 MHz
Band Edge Frequency 2400 MHz

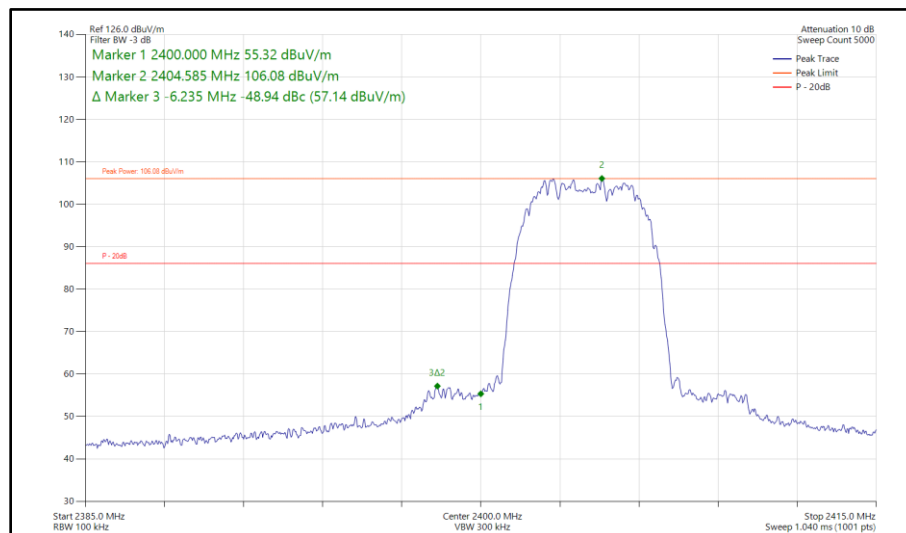


Figure 222 - Bluetooth HDR8, SISO, Core 1 - 2404 MHz
Band Edge Frequency 2400 MHz

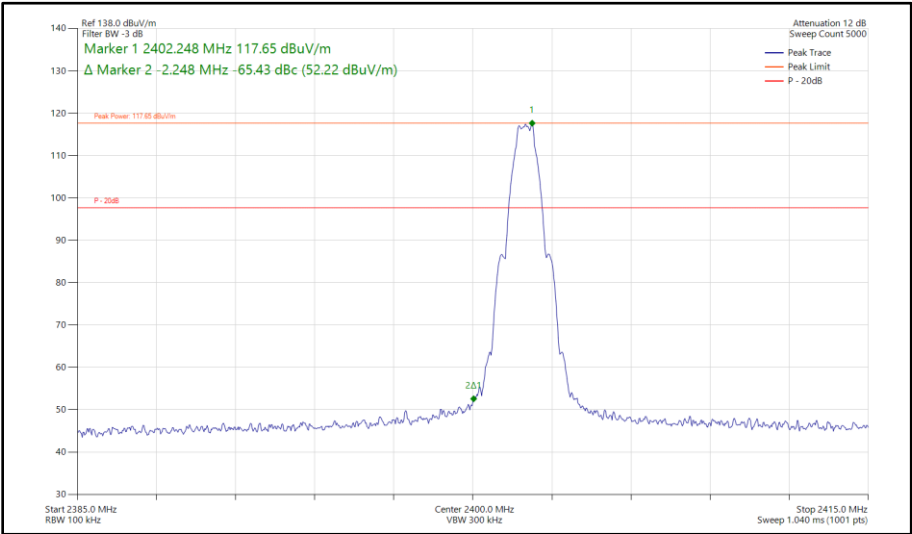


Figure 223 - Bluetooth LE1M, SISO, Core 1 - 2402 MHz
Band Edge Frequency 2400 MHz

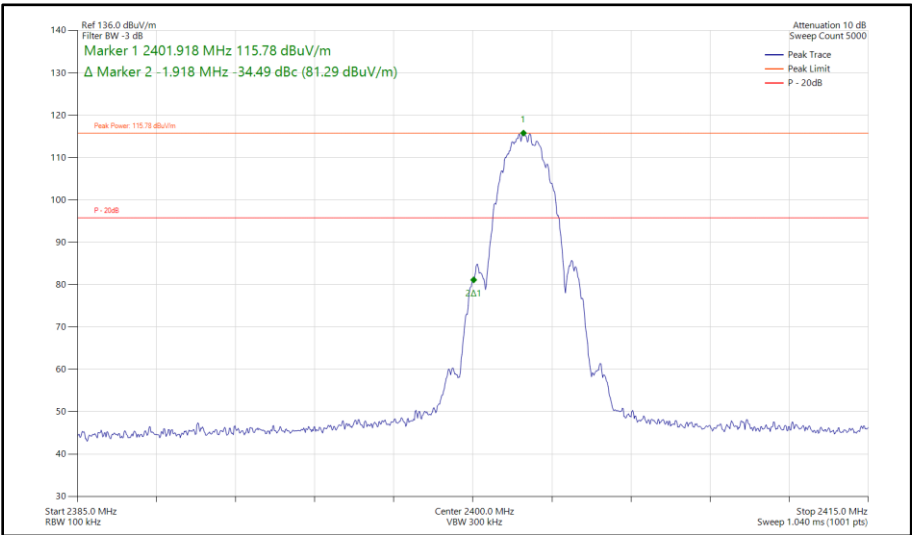


Figure 224 - Bluetooth LE2M, SISO, Core 1 - 2402 MHz
Band Edge Frequency 2400 MHz

ePA - Core 0 - Core 1 (MIMO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
Static	HDR4	2404	2400	-61.61
Static	HDR8	2404	2400	-46.25
Static	LE1M	2402	2400	-67.67
Static	LE2M	2402	2400	-35.59

Table 88 - MIMO Authorised Band Edge Results

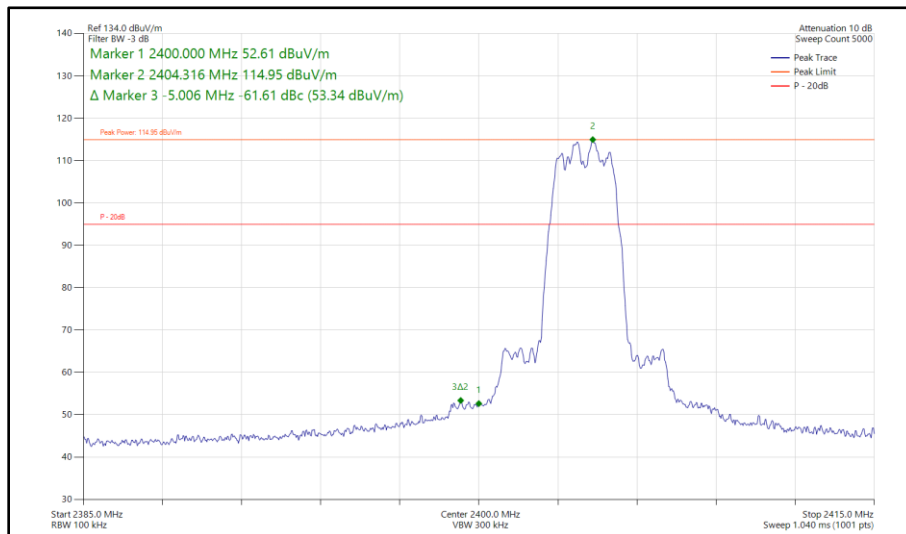


Figure 225 - Bluetooth HDR4, MIMO, Core 0 - Core 1 - 2404 MHz
Band Edge Frequency 2400 MHz

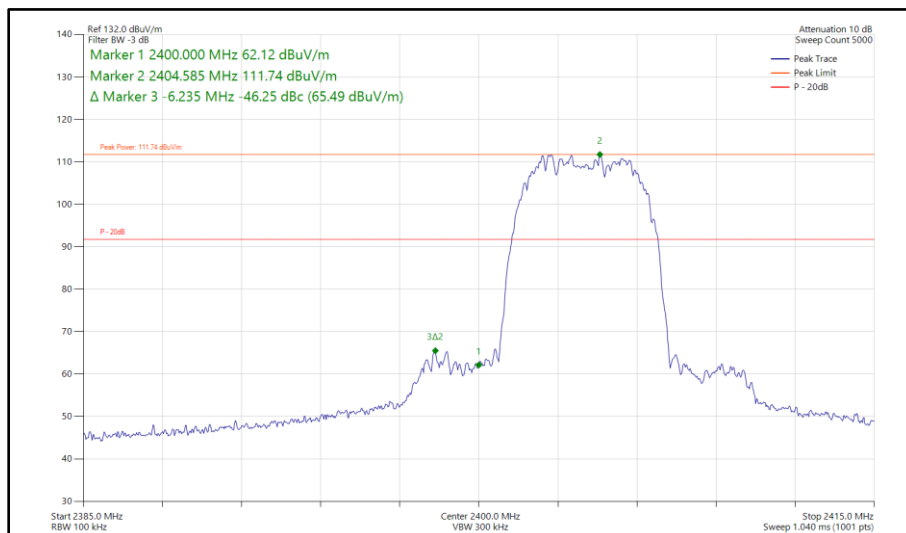
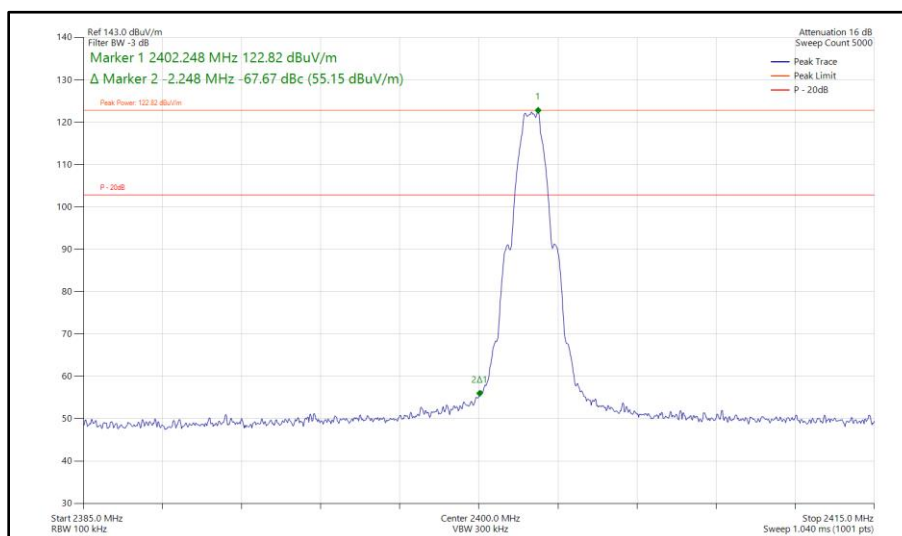
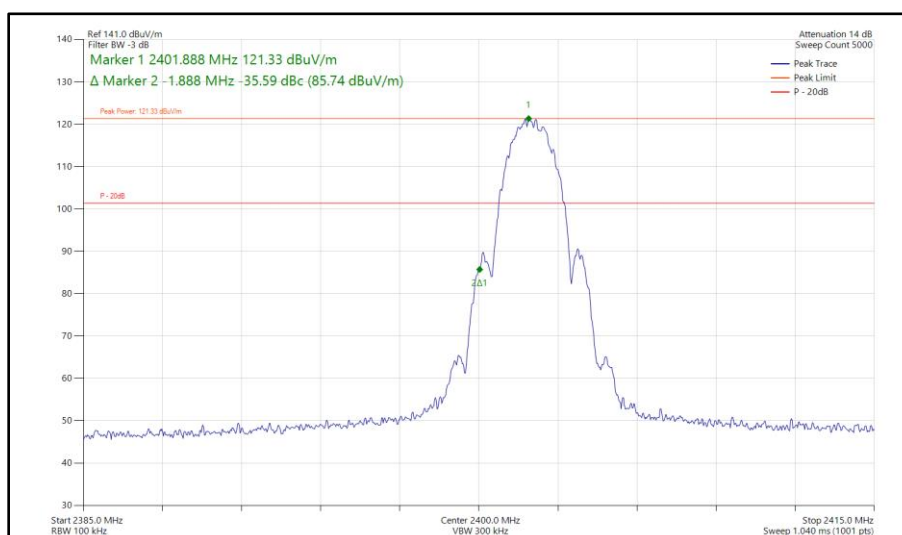


Figure 226 - Bluetooth HDR8, MIMO, Core 0 - Core 1 - 2404 MHz
Band Edge Frequency 2400 MHz



**Figure 227 - Bluetooth LE1M, MIMO, Core 0 - Core 1 - 2402 MHz
Band Edge Frequency 2400 MHz**



**Figure 228 - Bluetooth LE2M, MIMO, Core 0 - Core 1 - 2402 MHz
Band Edge Frequency 2400 MHz**



FCC 47 CFR Part 15, Limit Clause 15.247 (d)

20 dB below the fundamental measured in a 100 kHz bandwidth using a peak detector. If the transmitter complies with the conducted power limits, based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB below the fundamental instead of 20 dB.

ISED RSS-247, Limit Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

2.4.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 16.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.4.2	5125	-	Software
Cable 2.92m	Junkosha	MWX241-01000KMS	5413	12	23-May-2025
EMI Test Receiver	Rohde & Schwarz	ESW44	5912	12	07-Aug-2025
1500W (300V 12A) AC Power Supply	iTech	IT7324	5957	-	O/P Mon
3m Semi-Anechoic Chamber, Chamber16	Albatross Projects	RF Chamber 16	5972	36	24-May-2025
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5973	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5974	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5975	-	TU
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6142	12	05-May-2025
Digital Multimeter	Fluke	115	6147	12	06-Jun-2025
SAC Switch Unit	TUV SUD	TUV_SSU_004 PLC	6349	12	07-May-2025
USB Spectrum Analyser	Signal Hound	SA124B	6383	-	TU
8M SMA Cable	Junkosha	MWX221-08000AMSAMS/B	6833	12	14-Aug-2025
Handheld Hygrometer	Fluke	971	6838	12	27-Aug-2025
Cable Assembly	SpecTech	PE300-60	6857	-	TU
Cable Assembly	SpecTech	PE300-60	6858	-	TU

Table 89

TU - Traceability Unscheduled

O/P Mon - Output Monitored using calibrated equipment



2.5 Spurious Radiated Emissions

2.5.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.209 and 15.247 (d)
ISED RSS-247, Clause 3.3 and 5.5
ISED RSS-GEN, Clause 6.13 and 8.9

2.5.2 Equipment Under Test and Modification State

A3241, S/N: K2K9N270NG - Modification State 0
A3241, S/N: DT7LYX5QXT - Modification State 0

2.5.3 Date of Test

10-October-2024 to 13-October-2024

2.5.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 6.3, 6.5 and 6.6.

For frequencies > 1 GHz, plots for average measurements were taken in accordance with ANSI C63.10, clause 11.12.2.5.2.

The EUT was placed on the non-conducting platform in a manner typical of a normal installation.

Ports on the EUT were terminated with loads as described in ANSI C63.4 clause 6.2.4. For EUT's with multiple connectors of the same type, additional interconnecting cables were connected, and pre-scans performed to determine whether the level of the emissions were increased by >2 dB.

In the 30 MHz to 1 GHz range pre-scans were only performed on the mid channel (2440 MHz) only.

The plots shown are the characterisation of the EUT. The limits on the plots represent the most stringent case for restricted bands, (74/54 dBuV/m) when compared to 20 dBc outside restricted bands. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 10 dB of the limits shown on the plots, further investigation was carried out and reported in results tables.

The following conversion can be applied to convert from dBuV/m to uV/m:
 $10^{(\text{Field Strength in dBuV/m}/20)}$

Above 18 GHz, the measurement distance was reduced to 1 m. The limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54$ dB.

Where formal measurements have been necessary, the results have been presented in the emissions table.

2.5.5 Example Test Setup Diagram

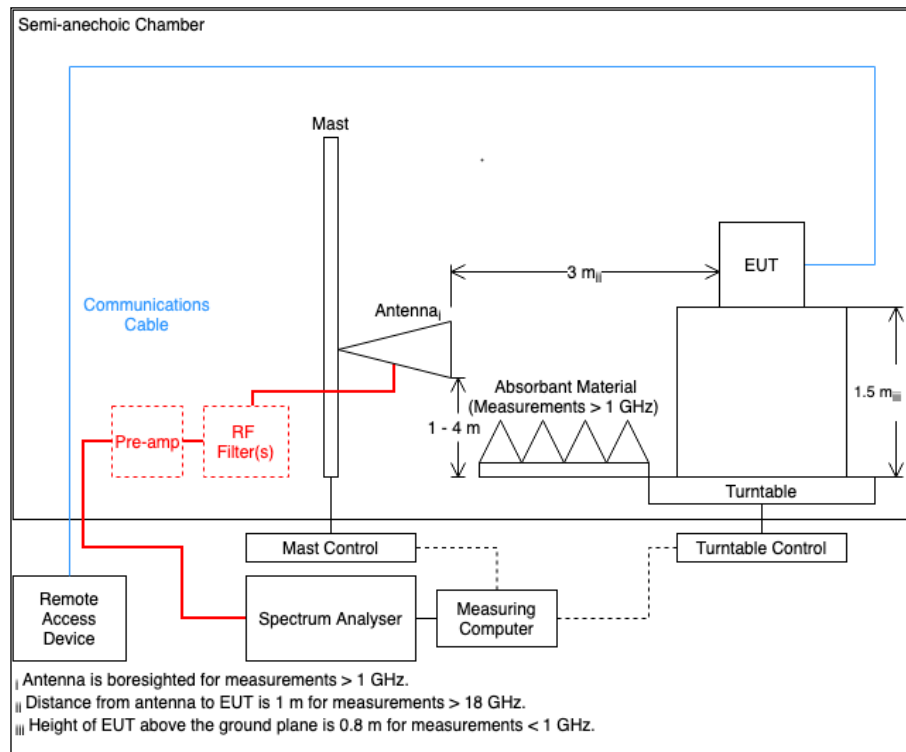


Figure 229

2.5.6 Environmental Conditions

Ambient Temperature	21.8 - 23.7 °C
Relative Humidity	45.7 - 51.2 %

2.5.7 Test Results

2.4 GHz Bluetooth LE/HDR/HDR

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
2389.951	35.49	54.00	-18.51	RMS	349	309	Vertical
4804.123	39.02	54.00	-14.98	RMS	3	330	Vertical

Table 90 - 2402 MHz (CH37), LE1M, iPA, Core 0 + Core 1, 1 GHz to 26 GHz

No other emissions found within 10 dB of the limit.

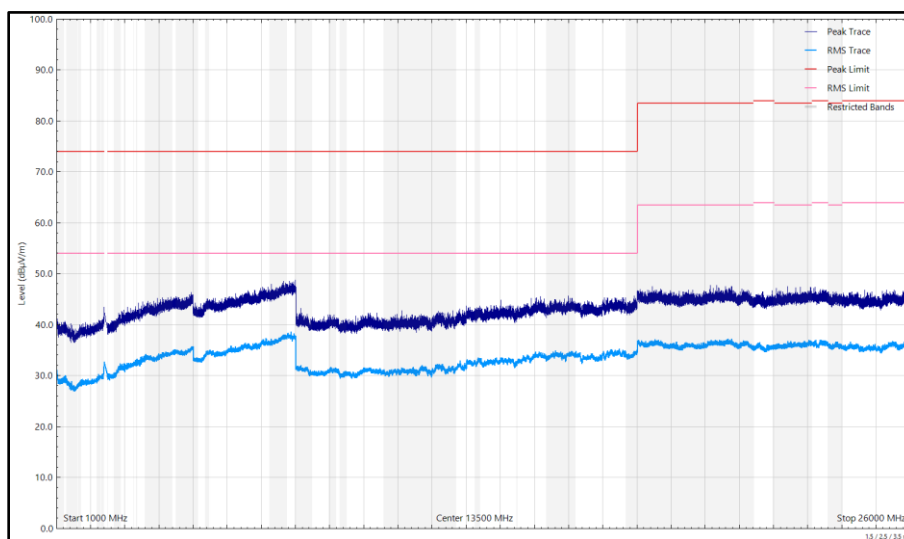


Figure 230 - 2402 MHz (CH37), LE1M, iPA, Core 0 + Core 1, 1 GHz to 26 GHz, Horizontal

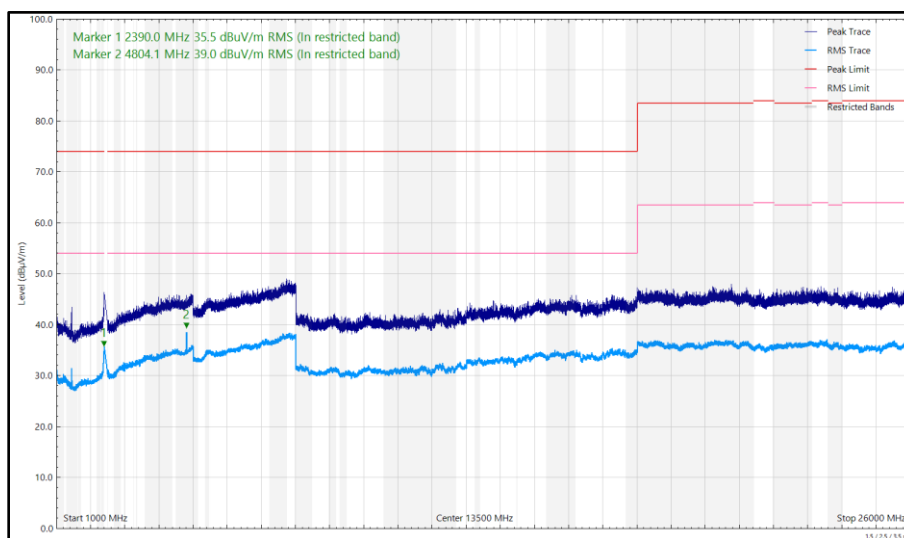


Figure 231 - 2402 MHz (CH37), LE1M, iPA, Core 0 + Core 1, 1 GHz to 26 GHz, Vertical