

FCC/ISED Test Report

Prepared for: 701x

Address: 700 Main Avenue
Fargo, North Dakota 58103

Product: xTAG

FCC ID: 2AZT3-701XT1

Test Report No: R20210414-20-E2A

Approved by:


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Technical Manager
iNARTE Certified EMC Engineer #EMC-003337-NE

DATE: 24 August 2021

Total Pages: 36

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REVISION PAGE

Rev. No.	Date	Description
0	30 July 2021	Original – NJohnson Prepared by FLane
A	19 August 2021	Added FCC ID Added calculatedconducted output power



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1.0 SUMMARY OF TEST RESULTS

The worst-case measurements were reported in this report. Summary of test results presented in this report correspond to the following section (Please see the checked box below for the rule part used):

FCC Part 15.247 ☒

The EUT has been tested according to the following specifications:

- (1) US Code of Federal Regulations, Title 47, Part 15
- (2) ISSED RSS-Gen, Issue 5
- (3) ISSED RSS-247, Issue 2

SUMMARY			
Standard Section	Test Type and Limit	Result	Remark
FCC Part 15.35 RSS Gen, Issue 5, Section 6.10	Duty Cycle	NA	DTS EUT
FCC Part 15.247(b)(3) RSS-247 Issue 2 Section 5.2	Peak output power Limit: <1 W	Pass	Pulsed emissions duty cycle was applied
FCC Part 15.247(a)(2) RSS-247 Issue 2 Section 5.2	6dB Bandwidth Limit: >500 kHz	Pass	Meets the requirement of the limit.
FCC Part 15.209 RSS-Gen Issue 4, Section 7.1	Receiver Radiated Emissions	Pass	Meets the requirement of the limit.
FCC Part 15.209 (restricted bands), 15.247 (unrestricted) RSS-247 Issue 2 Section 5.5, RSS-Gen Issue 4, Section 8.9	Transmitter Radiated Emissions	Pass	Meets the requirement of the limit.
FCC Part 15.247(e) RSS-247 Issue 2 Section 5.2	Power Spectral Density Limit: <8 dBm	Pass	Meets the requirement of the limit.
FCC Part 15.209, 15.247(d) RSS-247 Issue 2 Section 11.13	Band Edge Measurement	Pass	Meets the requirement of the limit.
FCC Part 15.207 RSS-Gen Issue 4, Section 7.1	Conducted Emissions	NA	Battery Powered

See Section 4 for details on the test methods used for each test.



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2.0 EUT DESCRIPTION

2.1 EQUIPMENT UNDER TEST

Summary and Operating Condition:

EUT	Cattle Tracker
EUT Received	7/7/2021
EUT Tested	7/7/2021 - 7/8/2021
Serial No.	001 (assigned by lab)
Operating Band	2400 – 2483.5 MHz
Device Type	DTS
Power Supply / Voltage	Internal Battery

NOTE: For more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.2 DESCRIPTION OF TEST MODES

The operating range of the EUT is dependent on the device type found in section 2.1:

For Bluetooth Transmissions:

Channel	Frequency
Low	2402 MHz
Mid	2440/2441 MHz
High	2480 MHz

These are the only representative channels tested in the frequency range according to FCC Part 15.31 and RSS-Gen Table A1. See the operational description for a list of all channel frequency and designations.

2.3 DESCRIPTION OF SUPPORT UNITS

None

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3.0 LABORATORY AND GENERAL TEST DESCRIPTION

3.1 LABORATORY DESCRIPTION

All testing was performed at the following Facility:

The Nebraska Center for Excellence in Electronics (NCEE Labs)
 4740 Discovery Drive
 Lincoln, NE 68521

A2LA Certificate Number:	1953.01
FCC Accredited Test Site Designation No:	US1060
Industry Canada Test Site Registration No:	4294A-1
NCC CAB Identification No:	US0177

Environmental conditions varied slightly throughout the tests:

Relative humidity of $35 \pm 4\%$
 Temperature of $22 \pm 3^\circ$ Celsius



3.2 TEST PERSONNEL

No.	PERSONNEL	TITLE	ROLE
1	Nic Johnson	Technical Manager	Review/editing
2	Fox Lane	Test Engineer	Testing and report
3	Karthik Vepuri	Test Engineer	Testing

Notes:

All personnel are permanent staff members of NCEE Labs. No testing or review was sub-contracted or performed by sub-contracted personnel.

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3.3 TEST EQUIPMENT

DESCRIPTION AND MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CALIBRATION DATE	CALIBRATION DUE DATE
Keysight MXE Signal Analyzer (26.5GHz)**	N9038A	MY56400083	May 5, 2020	May 5, 2022
SunAR RF Motion	JB1	A082918-1	August 17, 2020	August 17, 2021
EMCO Horn Antenna**	3115	6415	March 16, 2020	March 16, 2022
Rohde & Schwarz Preamplifier*	TS-PR18	3545700803	April 14, 2020	April 14, 2022
Trilithic High Pass Filter*	6HC330	23042	April 14, 2020	April 14, 2022
RF Cable (preamplifier to antenna)*	MFR-57500	01-07-002	April 14, 2020	April 14, 2022
TDK Emissions Lab Software	V11.25	700307	NA	NA

*Internal Characterization

**2 Year Cal Cycle

Notes:

All equipment is owned by NCEE Labs and stored permanently at NCEE Labs facilities.

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3.4 GENERAL TEST PROCEDURE AND SETUP FOR RADIO MEASUREMENTS

Measurement type presented in this report (Please see the checked box below):

Conducted ☐

The conducted measurements were performed by connecting the output of the transmitter directly into a spectrum analyzer using an impedance matched cable and connector soldered to the EUT in place of the antenna. The information regarding resolution bandwidth, video bandwidth, span and the detector used can be found in the graphs provided in the Appendix C. All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

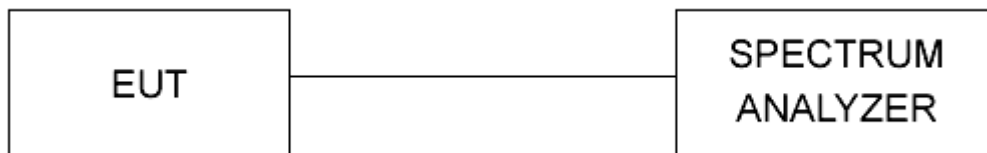


Figure 1 - Bandwidth Measurements Test Setup

Radiated ☒

All the radiated measurements were taken at a distance of 3m from the EUT. The information regarding resolution bandwidth, video bandwidth, span and the detector used can be found in the graphs provided in the Appendix C. All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

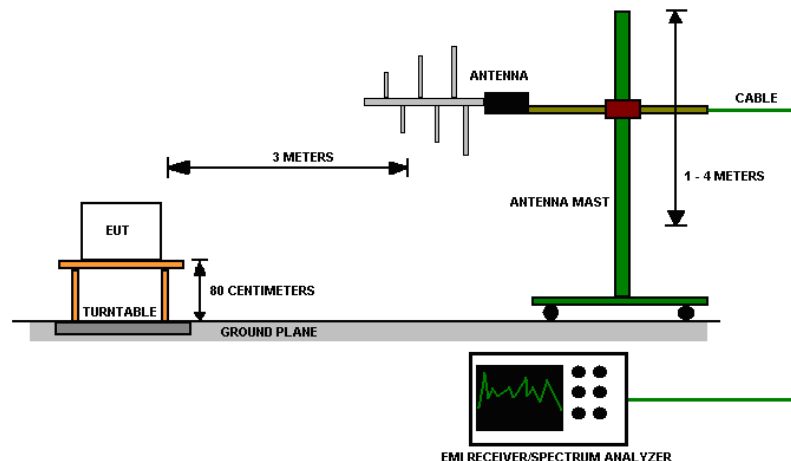


Figure 2 - Radiated Emissions Test Setup

4.0 RESULTS

Radiated Radio Measurements							
CHANNEL	Transmitter	Occupied Bandwidth (kHz)	6 dB Bandwidth (kHz)	PEAK OUTPUT POWER EIRP (dBm)	PEAK OUTPUT POWER Conducted* (dBm)	PSD (dBm)	RESULT
Low	BLE	1095.80	690.20	3.941	1.741	-5.005	PASS
Mid	BLE	1108.60	710.50	3.133	0.933	-6.629	PASS
High	BLE	1091.90	688.60	0.534	-1.666	-11.107	PASS
Occupied Bandwidth = N/A; 6 dB Bandwidth Limit =500 kHz				Peak Output Power Limit = 30 dBm; PSD Limit = 8 dBm			
Unrestricted Band-Edge							
CHANNEL	Mode	Band edge /Measurement Frequency (MHz)	Relative Highest out of band level (dBuV/m)	Relative Fundamental (dBuV/m)	Delta (dB)	Min Delta (dB)	Result
Low	BLE	2400.00	51.27	98.00	46.74	20.00	PASS
High	BLE	2483.50	7.08*	61.72*	54.64	20.00	PASS
*Uncorrected measurement, used for relative measurements							
Peak Restricted Band-Edge							
CHANNEL	Mode	Band edge /Measurement Frequency (MHz)	Highest out of band level (dBuV/m @ 3m)	Measurement Type	Limit (dBuV/m @ 3m)	Margin	Result
Low	BLE	2390.00	51.35	Peak	73.98	22.63	PASS
High	BLE	2483.50	52.16	Peak	73.98	21.82	PASS
*Limit shown is the peak limit taken from FCC Part 15.209							
Average Restricted Band-Edge							
CHANNEL	Mode	Band edge /Measurement Frequency (MHz)	Highest out of band level (dBuV/m @ 3m)	Measurement Type	Limit (dBuV/m @ 3m)	Margin	Result
Low	BLE	2390.00	39.58	Average	53.98	14.40	PASS
High	BLE	2483.50	40.44	Average	53.98	13.54	PASS
*Limit shown is the average limit taken from FCC Part 15.209							

*Conducted measurements = EIRP – antenna gain

Antenna gain = 2.2 dBi



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4.1 OUTPUT POWER

Test Method: All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

Limits of power measurements:

For FCC Part 15.247 Device:

The maximum allowed peak output power is 30 dBm.

Test procedures:

Details can be found in section 3.4 of this report.

Deviations from test standard:

No deviation.

Test setup:

Details can be found in section 3.4 of this report.

EUT operating conditions:

Details can be found in section 2.1 of this report.

Test results:

Pass

Comments:

1. All the output power plots can be found in the Appendix C.
2. All data is in the table in results section 4.0.
3. All the measurements were found to be compliant.



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4.2 BANDWIDTH

Test Method: All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

Limits of bandwidth measurements:

For FCC Part 15.247 Device:

The 99% occupied bandwidth is for informational purpose only. The 6dB bandwidth of the signal must be greater than 500 kHz.

Test procedures:

Details can be found in section 3.4 of this report.

Deviations from test standard:

No deviation.

Test setup:

Test setup details can be found in section 3.4 of this report.

EUT operating conditions:

Details can be found in section 2.1 of this report.

Test results:

Pass

Comments:

1. All the bandwidth plots can be found in the Appendix C.
2. All data is in the table in results section 4.0.
3. All the measurements were found to be compliant.



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4.3 DUTY CYCLE

Test Method: NA

4.4 RADIATED EMISSIONS

Test Method: ANSI C63.10-2013, Section 6.5, 6.6

Limits for radiated emissions measurements:

Emissions radiated outside of the specified bands shall be applied to the limits in 15.209 as followed:

FREQUENCIES (MHz)	FIELD STRENGTH ($\mu\text{V/m}$)	MEASUREMENT DISTANCE (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	3
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = $20 * \log * \text{Emission level } (\mu\text{V/m})$.
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits by more than 20dB under any condition of modulation.
4. The EUT was tested for spurious emissions while running off of battery power and external USB power. The worse-case emissions were produced while running off of USB power, so results from this mode are presented.



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Test procedures:

- a. The EUT was placed on the top of a rotating table above the ground plane in a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The table was 0.8m high for measurements from 30MHz-1Ghz and 1.5m for measurements from 1GHz to 25 GHz.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna was a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are used to make the measurement.
- d. For each suspected emission, the EUT was arranged to maximize its emissions and then the antenna height was varied from 1 meter to 4 meters and the rotating table was turned from 0 degrees to 360 degrees to find the maximum emission reading.
- e. The test-receiver system was set to use a peak detector with a specified resolution bandwidth. For spectrum analyzer measurements, the composite maximum of several analyzer sweeps was used for final measurements.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The EUT was maximized in all 3 orthogonal positions. The results are presented for the axis that had the highest emissions.
- h. The EUT was tested during the preview scan with all radios transmitting simultaneously. If any intermodulation products were measured within the laboratory's measurement sensitivity, they were recorded in the results.

Test setup:

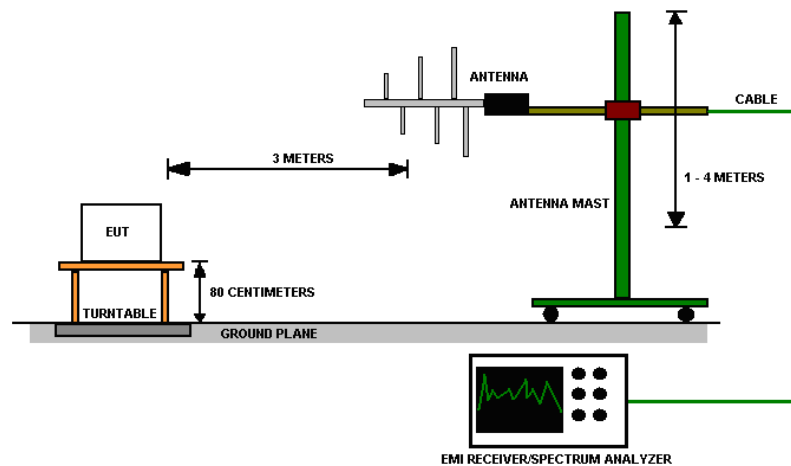


Figure 3 - Radiated Emissions Test Setup

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequencies below 1GHz.
2. The resolution bandwidth 1 MHz for all measurements and at frequencies above 1GHz, A peak detector was used for all measurements above 1GHz. Measurements were made with an EMI Receiver.

Deviations from test standard:

No deviation.

EUT operating conditions

Details can be found in section 2.1 of this report.

Test results:

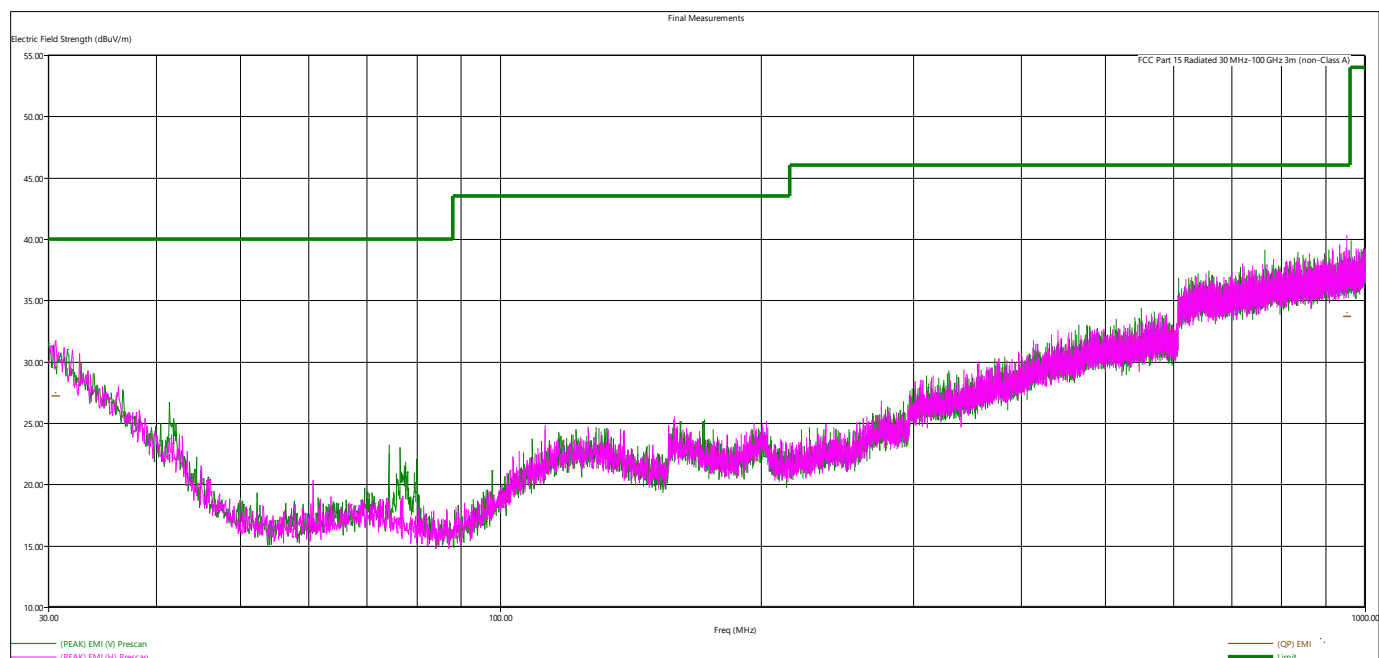


Figure 4 - Radiated Emissions Plot, Receive

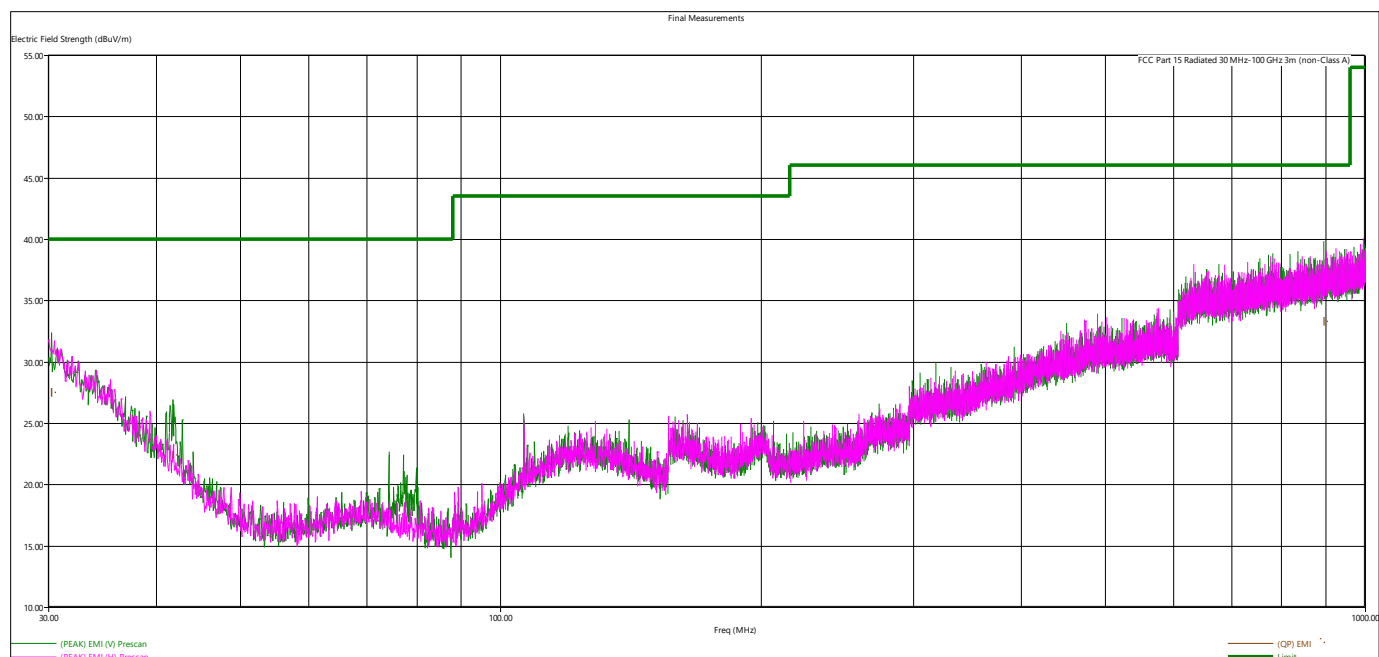


Figure 5 - Radiated Emissions Plot, Low Channel, BLE

Quasi-Peak Measurements, GMSK-GFSK

Frequency	Level	Limit	Margin	Height	Angle	Pol	Channel	Modulation
MHz	dBμV/m	dBμV/m	dB	cm.	deg.			
30.454080	27.16	40.00	12.84	184.00	221.00	H	Receive	BLE
951.826080	33.65	46.02	12.37	236.00	182.00	H	Receive	BLE
41.357520	22.07	40.00	17.93	130.00	4.00	V	Receive	BLE
30.146400	27.45	40.00	12.55	374.00	140.00	V	Low	BLE
41.592960	22.36	40.00	17.64	136.00	87.00	V	Low	BLE
894.800160	33.28	46.02	12.74	163.00	298.00	V	Low	BLE

The EUT was maximized in all 3 orthogonal axis. The worst-case is shown in the plot and table above.

Module Verification of Cellular Module (FCC ID: XMR201912BG77) investigated and found to be within 2dB of previous certification.

Peak Measurements, GMSK-GFSK

Frequency	Level	Limit	Margin	Height	Angle	Pol	Channel	Modulation
MHz	dBμV/m	dBμV/m	dB	cm.	deg.			
2402.226000	98.58	NA	NA	127.00	136.00	H	Low	BLE
9609.718000	47.47	73.98	26.51	129.00	133.00	H	Low	BLE
1900.410000	43.17	73.98	9.55	517.00	162.00	H	Mid	BLE
2439.736000	98.15	NA	NA	278.00	138.00	H	Mid	BLE
4879.558000	48.74	73.98	25.24	165.00	334.00	V	Mid	BLE
2479.724000	95.70	NA	NA	360.00	325.00	H	High	BLE

Average Measurements, GMSK-GFSK

Frequency	Level	Limit	Margin	Height	Angle	Pol	Channel	Modulation
MHz	dBμV/m	dBμV/m	dB	cm.	deg.			
2402.226000	95.92	NA	NA	127.00	136.00	H	Low	BLE
9609.718000	34.00	53.98	19.98	129.00	133.00	H	Low	BLE
1900.410000	30.69	53.98	23.29	517.00	162.00	H	Mid	BLE
2439.736000	95.80	NA	NA	278.00	138.00	H	Mid	BLE
4879.558000	40.02	53.98	13.96	165.00	334.00	V	Mid	BLE
2479.724	93.07	NA	NA	360.00	325.00	H	High	BLE
4959.412000	41.30	53.98	13.33	120.00	100.00	V	High	BLE

Measurements taken with average detector and EUT in CW mode

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit Value – Emission Level

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4.5 BAND EDGES

Test Method: All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

Limits of band-edge measurements:

For FCC Part 15.247 Device:

For emissions outside of the allowed band of operation (2400.0MHz – 2480.0MHz), the emission level needs to be 20dB under the maximum fundamental field strength. However, if the emissions fall within one of the restricted bands from 15.205 the field strength levels need to be under that of the limits in 15.209.

Test procedures:

The highest emissions level beyond the band-edge was measured and recorded. All band edge measurements were evaluated to the general limits in Part 15.209. More details can be found in section 3.4 of this report.

Deviations from test standard:

No deviation.

Test setup:

Test setup details can be found in section 3.4 of this report.

EUT operating conditions:

Details can be found in section 2.1 of this report.

Test results:

Pass

Comments:

1. All the band edge plots can be found in the Appendix C.
2. All data is in the table in results section 4.0.
3. If the device falls under FCC Part 15.247 (Details can be found in summary of test results), compliance is shown in the unrestricted band edges by showing minimum delta of 20 dB between peak and the band edge.
4. If the device falls under FCC Part 15.249 (Details can be found in summary of test results), compliance is shown in the unrestricted band edges by showing minimum delta of 50 dB between peak and the band edge.
5. The restricted band edge compliance is shown by comparing to the general limit defined in Part 15.209. The limit shown in the graph accounts for the antenna gain of the device.



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4.6 POWER SPECTRAL DENSITY

Test Method: All the radio measurements were performed using the sections from ANSI C63.10, details about the section used can be found in the spectrum analyzer titles on the graph.

Limits of power measurements:

For FCC Part 15.247 Device:

The maximum PSD allowed is 8 dBm.

Test procedures:

Details can be found in section 3.4 of this report.

Deviations from test standard:

No deviation.

Test setup:

Details can be found in section 3.4 of this report.

EUT operating conditions:

Details can be found in section 2.1 of this report.

Test results:

Pass

Comments:

4. All the Power Spectral Density (PSD) plots can be found in the Appendix C.
5. All the measurements were found to be compliant.
6. The measurements are reported on the graph.



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APPENDIX A: SAMPLE CALCULATION

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF - (-CF + AG) + AV$$

where FS = Field Strength

RA = Receiver Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

AG = Amplifier Gain

AV = Averaging Factor (if applicable)

Assume a receiver reading of 55 dB μ V is obtained. The Antenna Factor of 12 and a Cable Factor of 1.1 is added. The Amplifier Gain of 20 dB is subtracted, giving a field strength of 48.1 dB μ V/m.

$$FS = 55 + 12 - (-1.1 + 20) + 0 = 48.1 \text{ dB}\mu\text{V/m}$$

The 48.1 dB μ V/m value can be mathematically converted to its corresponding level in μ V/m.

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm} [(48.1 \text{ dB}\mu\text{V/m})/20] = 254.1 \mu\text{V/m}$$

AV is calculated by taking the $20 \cdot \log(T_{\text{on}}/100)$ where T_{on} is the maximum transmission time in any 100ms window.



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EIRP Calculations

In cases where direct antenna port measurement is not possible or would be inaccurate, output power is measured in EIRP. The maximum field strength is measured at a specified distance and the EIRP is calculated using the following equation;

$$EIRP \text{ (Watts)} = [Field \text{ Strength (V/m)} \times \text{antenna distance (m)}]^2 / 30$$

$$\text{Power (watts)} = 10^{[Power \text{ (dBm)}/10]} / 1000$$

$$\text{Voltage (dB}\mu\text{V)} = \text{Power (dBm)} + 107 \text{ (for } 50\Omega \text{ measurement systems)}$$

$$\text{Field Strength (V/m)} = 10^{[\text{Field Strength (dB}\mu\text{V/m)} / 20]} / 10^6$$

$$\text{Gain} = 1 \text{ (numeric gain for isotropic radiator)}$$

Conversion from 3m field strength to EIRP (d=3):

$$EIRP = [FS(V/m) \times d^2]/30 = FS [0.3] \quad \text{for } d = 3$$

$$EIRP(dBm) = FS(dB\mu V/m) - 10(\log 10^9) + 10\log[0.3] = FS(dB\mu V/m) - 95.23$$

$10\log(10^9)$ is the conversion from micro to milli



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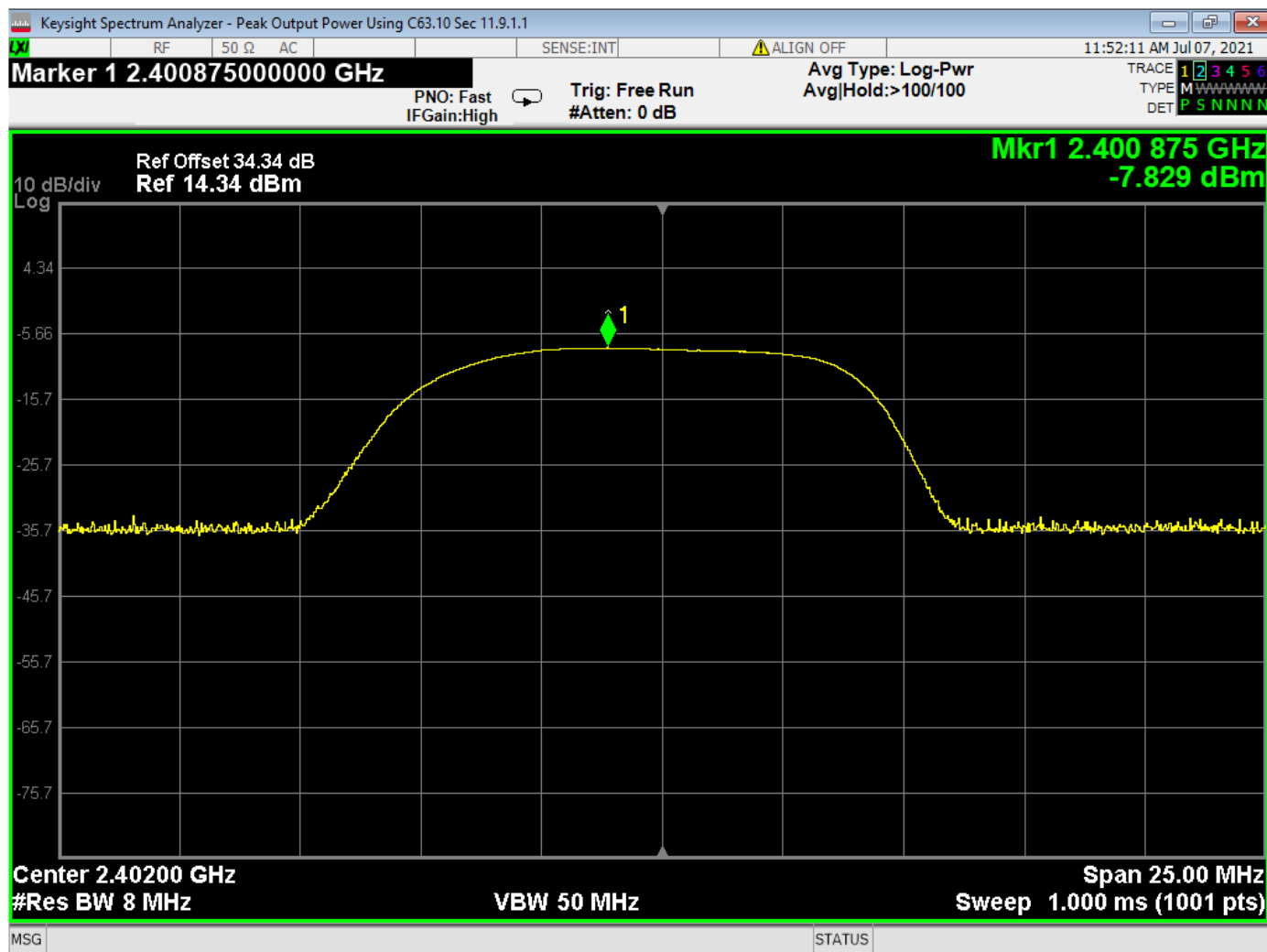
APPENDIX B – MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been for tests performed in this test report:

Test	Frequency Range	Uncertainty Value (dB)
Radiated Emissions, 3m	30MHz - 1GHz	3.82
Radiated Emissions, 3m	1GHz - 18GHz	4.44
Emissions limits, conducted	30MHz – 18GHz	±3.30 dB

Expanded uncertainty values are calculated to a confidence level of 95%.

APPENDIX C – GRAPHS AND TABLES

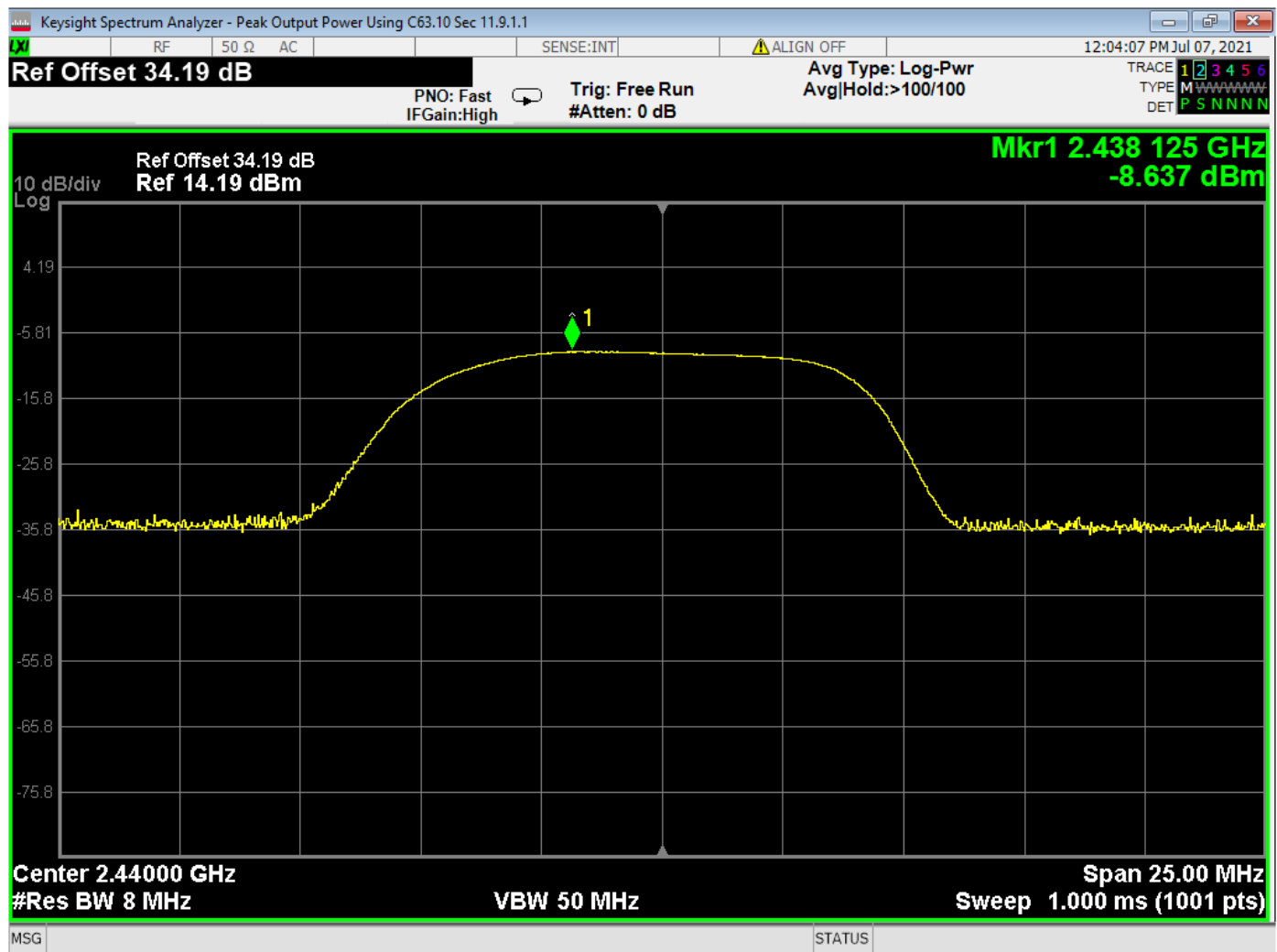


01 Peak Output Power, EIRP, Low

Plots show corrected Radiated Field Strength measurement taken at 3m test distance

$$\text{Peak Output Power EIRP} = \text{Field Strength} + 107 - 95.23$$

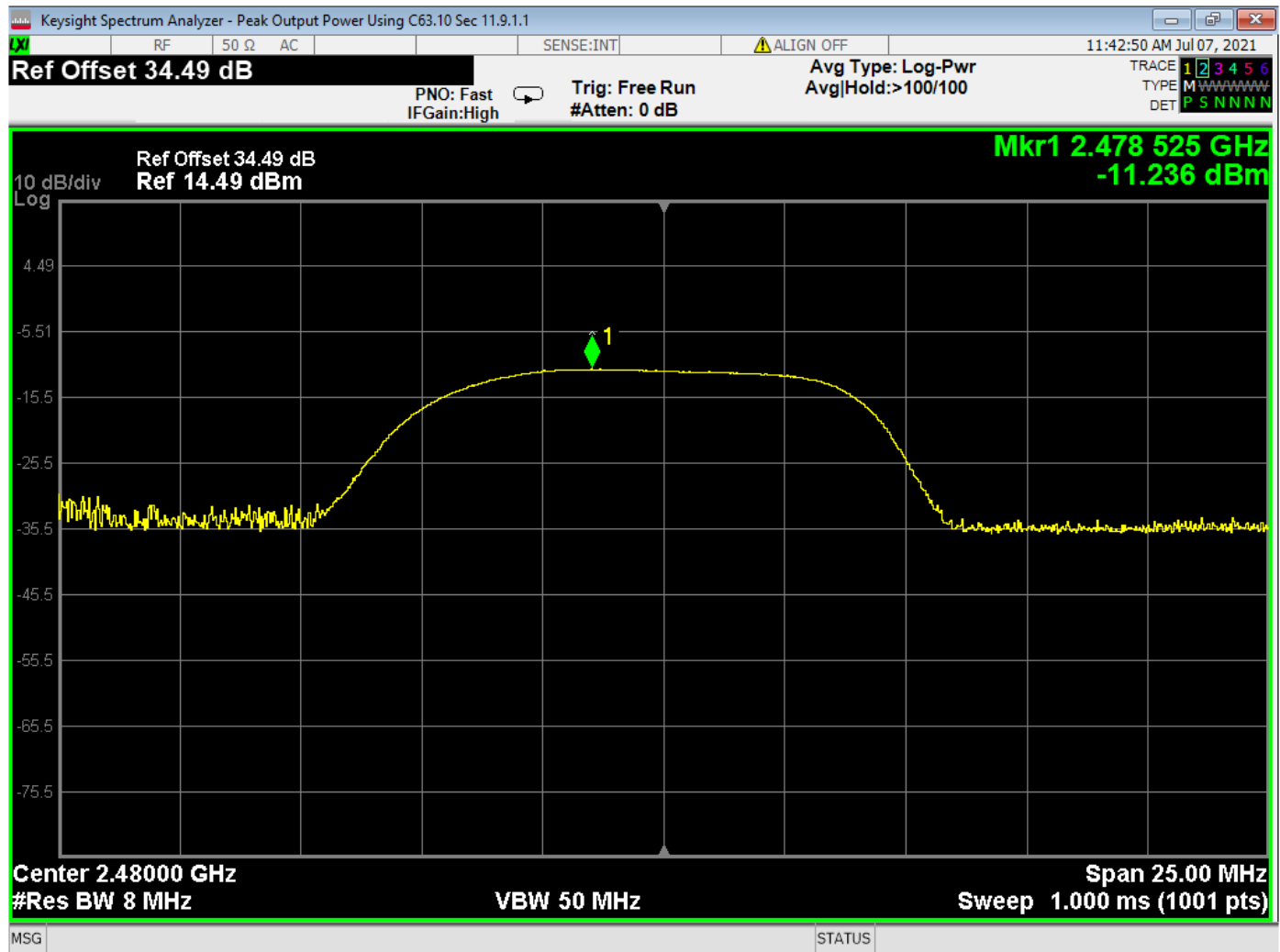
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02 Peak Output Power, EIRP, Mid

Plots show corrected Radiated Field Strength measurement taken at 3m test distance

$$\text{Peak Output Power EIRP} = \text{Field Strength} + 107 - 95.23$$



03 Peak Output Power, EIRP, High

Plots show orrected Radiated Field Strength measurement taken at 3m test distance

Peak Output Power EIRP = Field Strength + 107 – 95.23

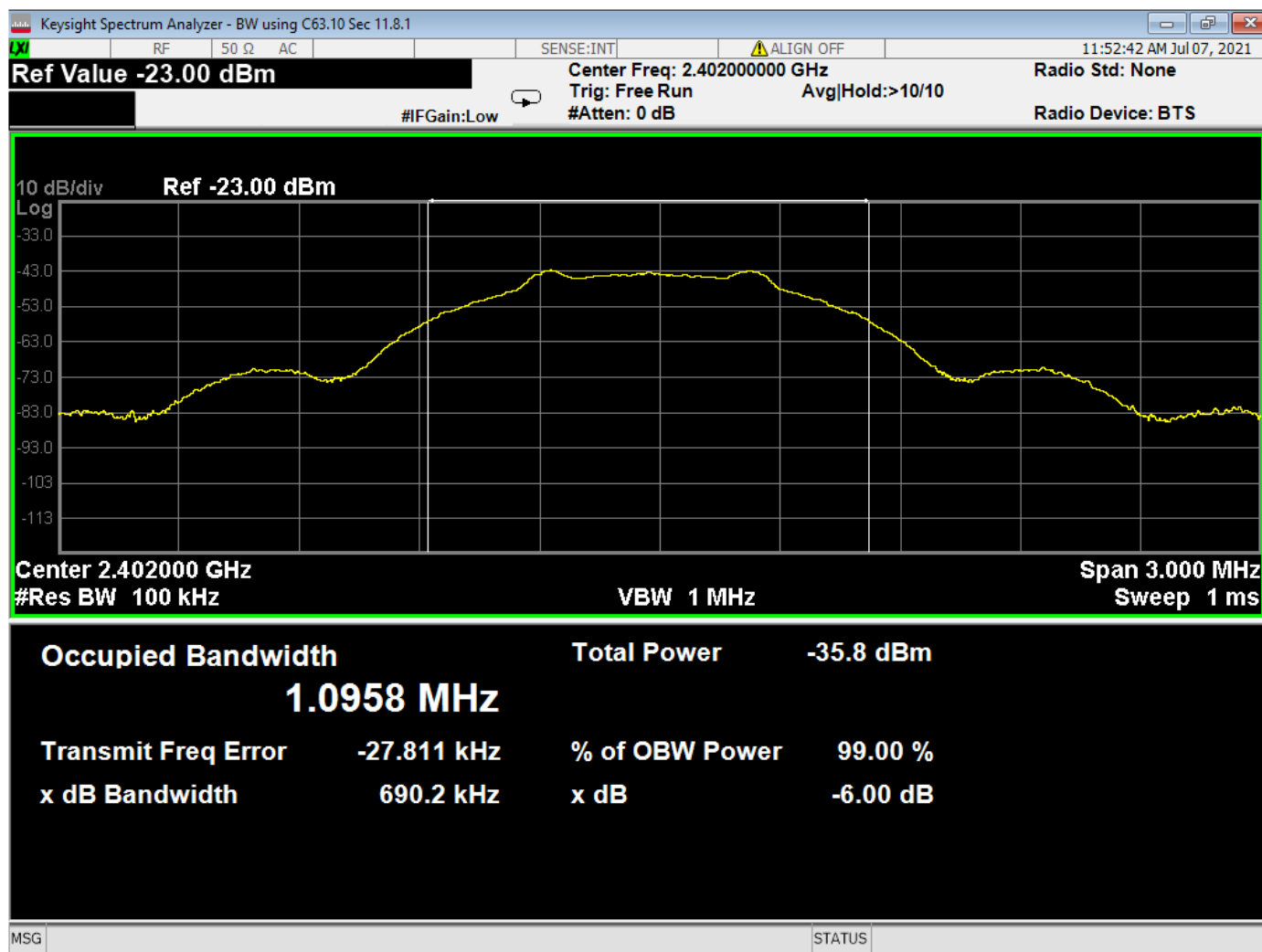


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04 OBW-6dB, Low

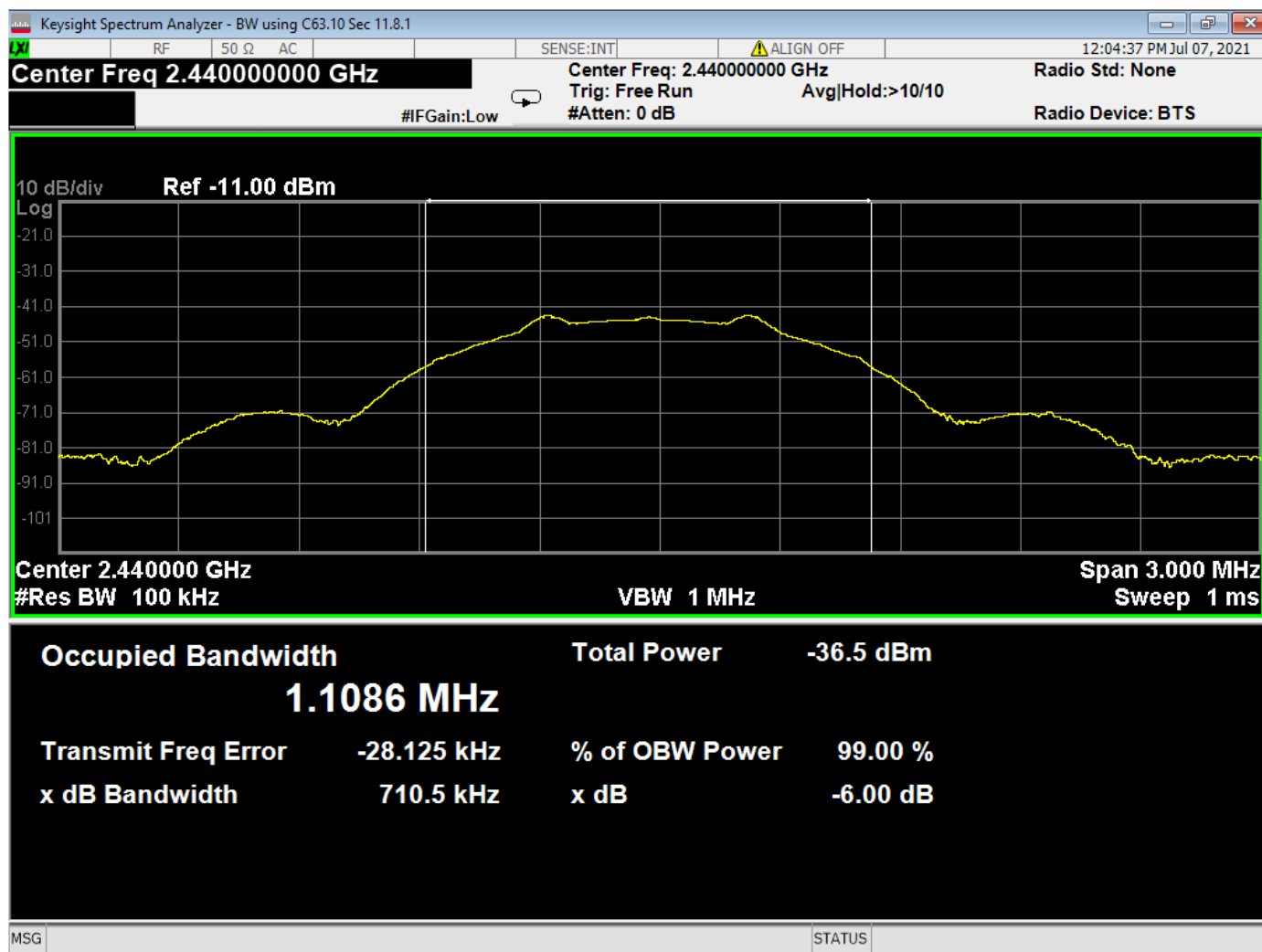


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05 OBW-6dB, Mid

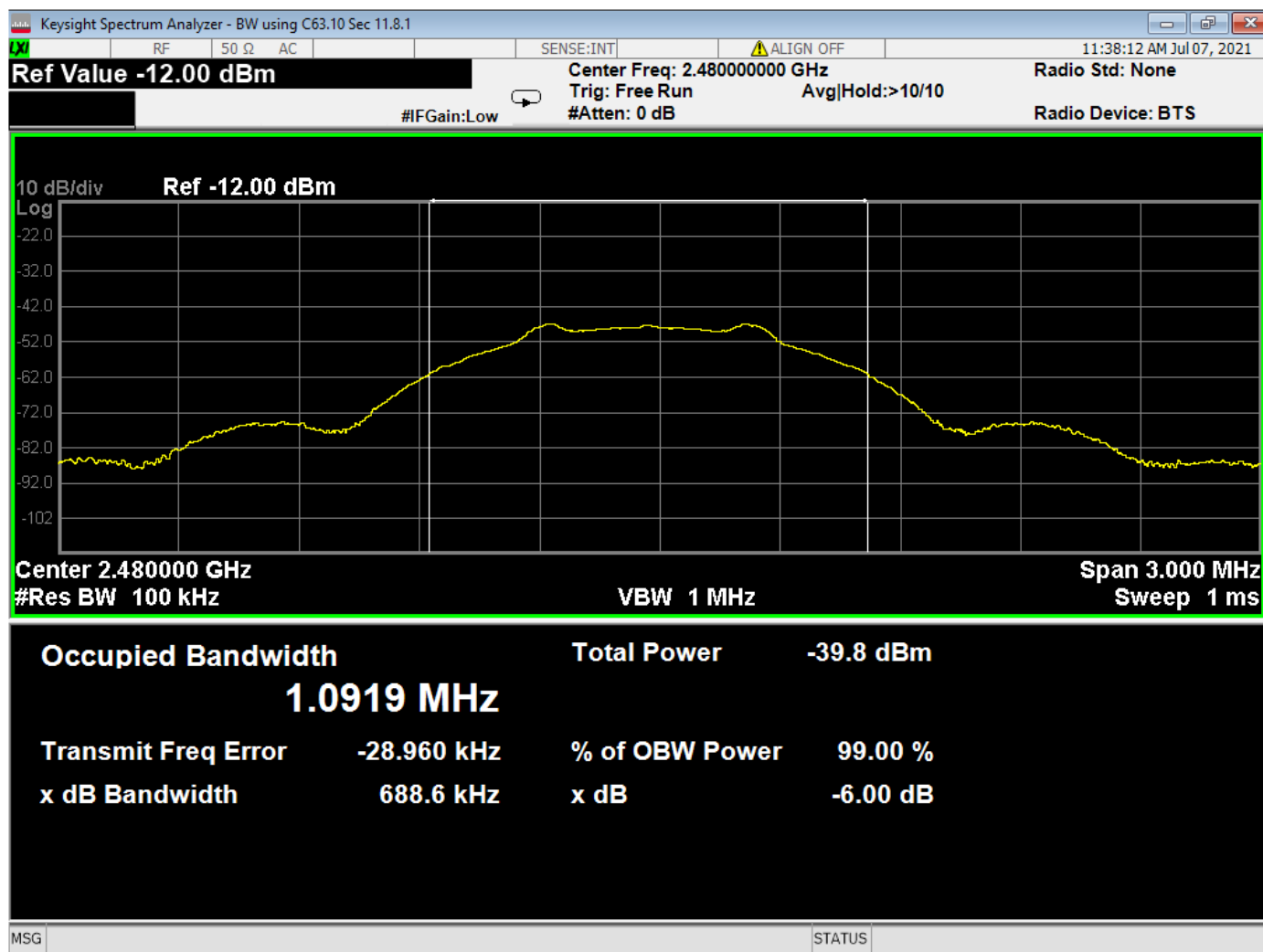


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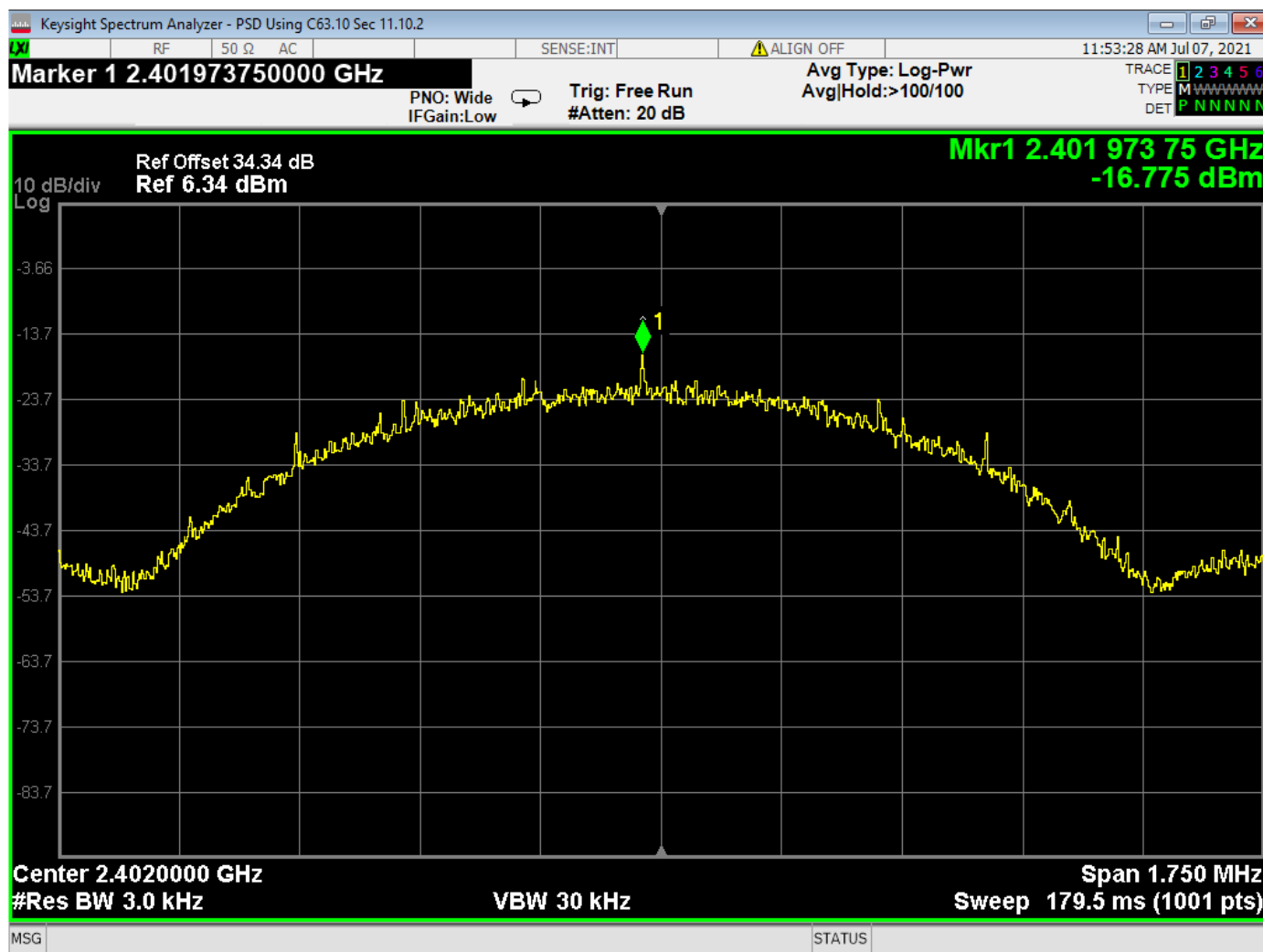
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06 OBW-6dB, High

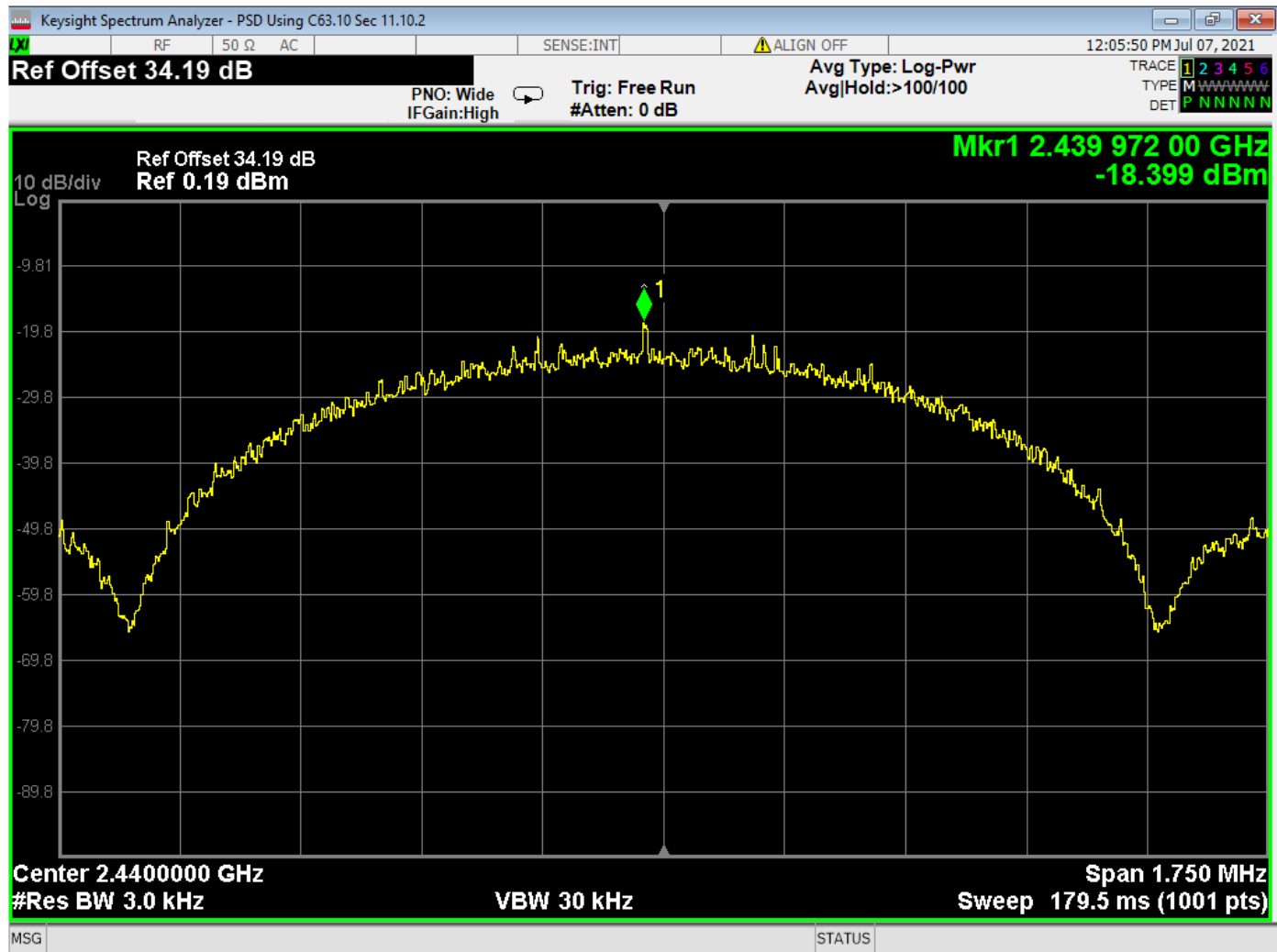


07 PSD, Low

Corrected Radiated Field Strength measurement taken at 3m test distance

$$\text{Peak Output Power EIRP} = \text{Field Strength} + 107 - 95.23$$

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08 PSD, Mid

Corrected Radiated Field Strength measurement taken at 3m test distance

Peak Output Power EIRP = Field Strength + 107 – 95.23

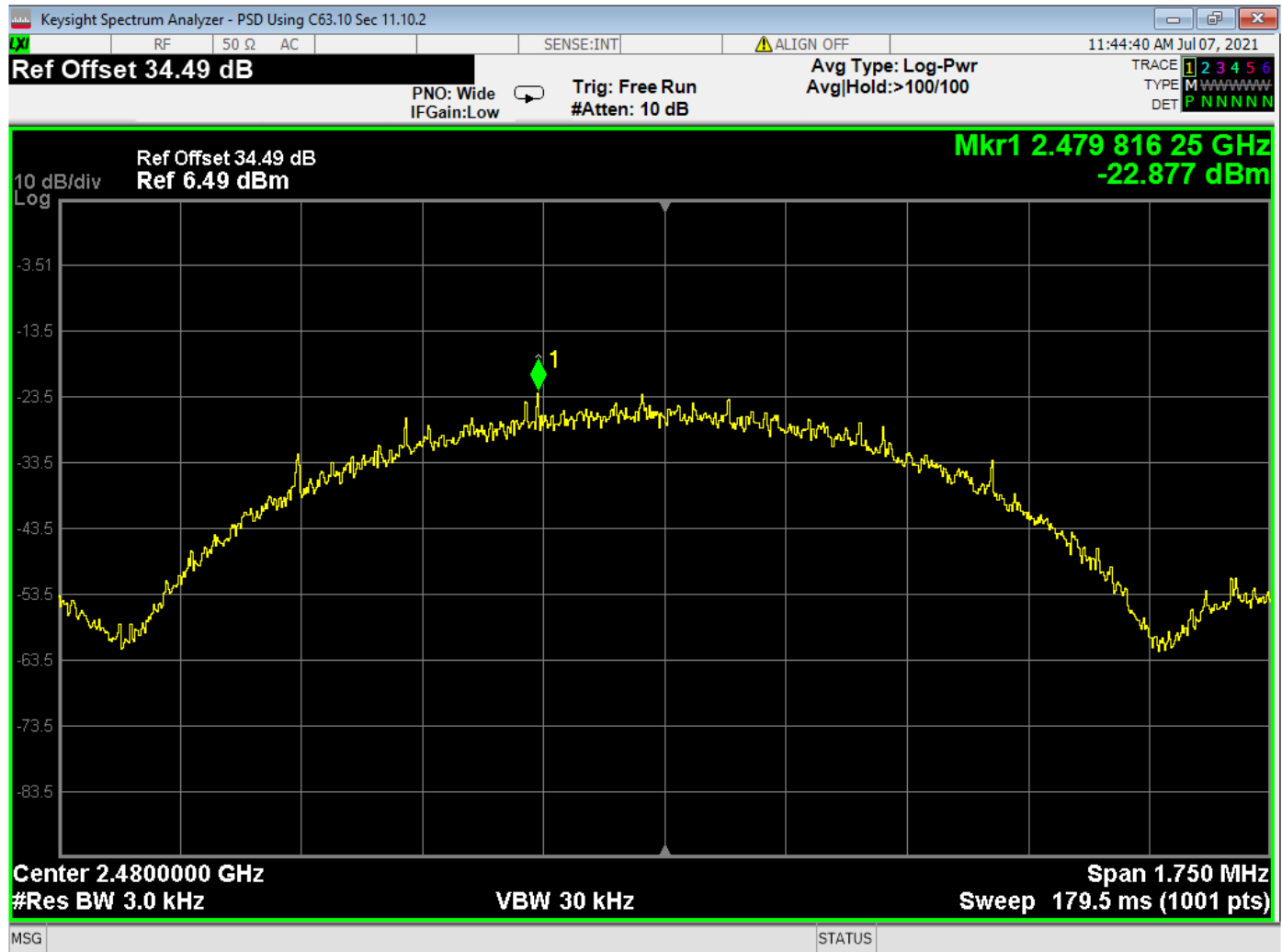


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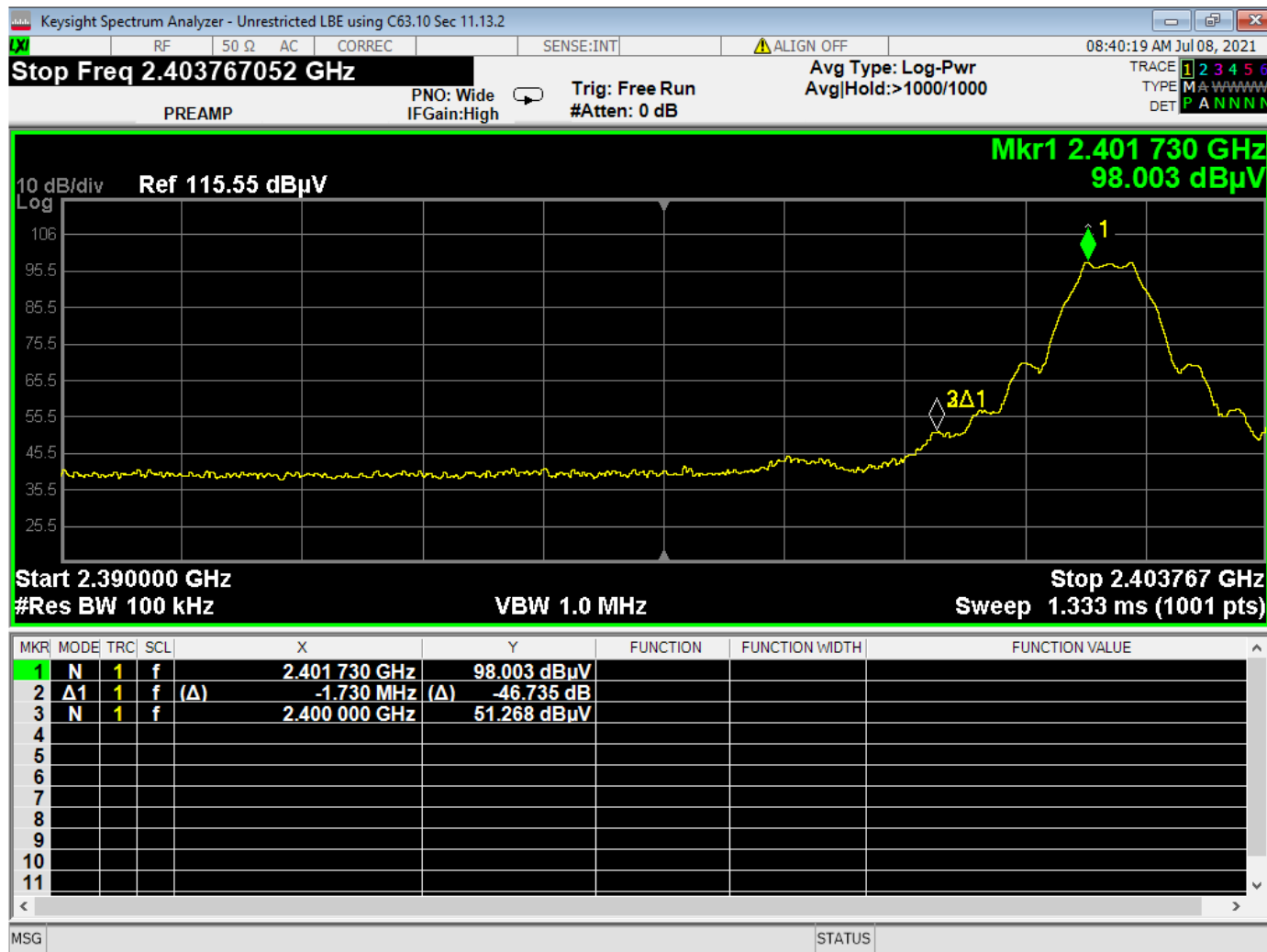
Prepared for: 701x



09 PSD, High

Corrected Radiated Field Strength measurement taken at 3m test distance

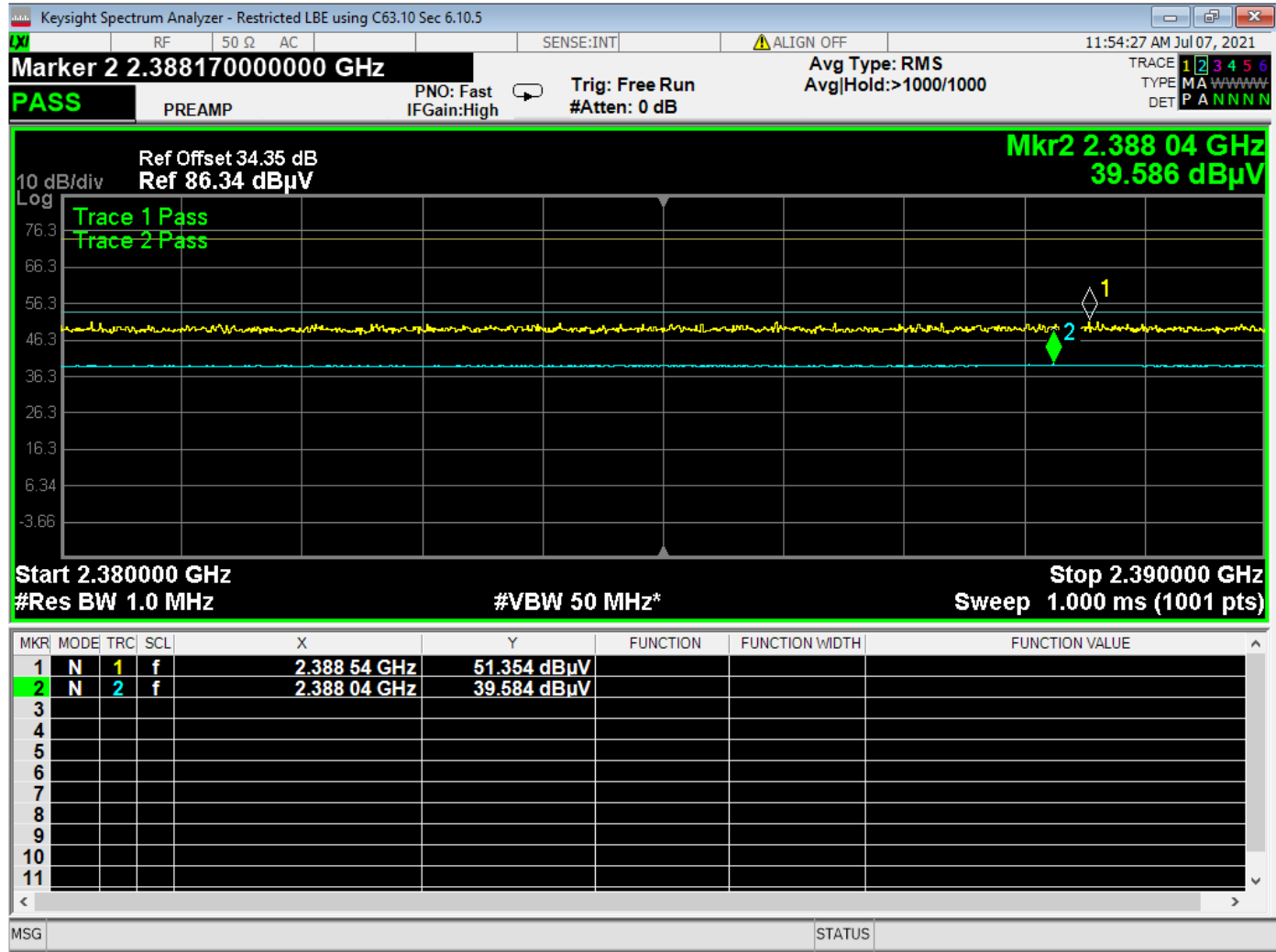
Peak Output Power EIRP = Field Strength + 107 – 95.23



10 Lower Band Edge, Unrestricted

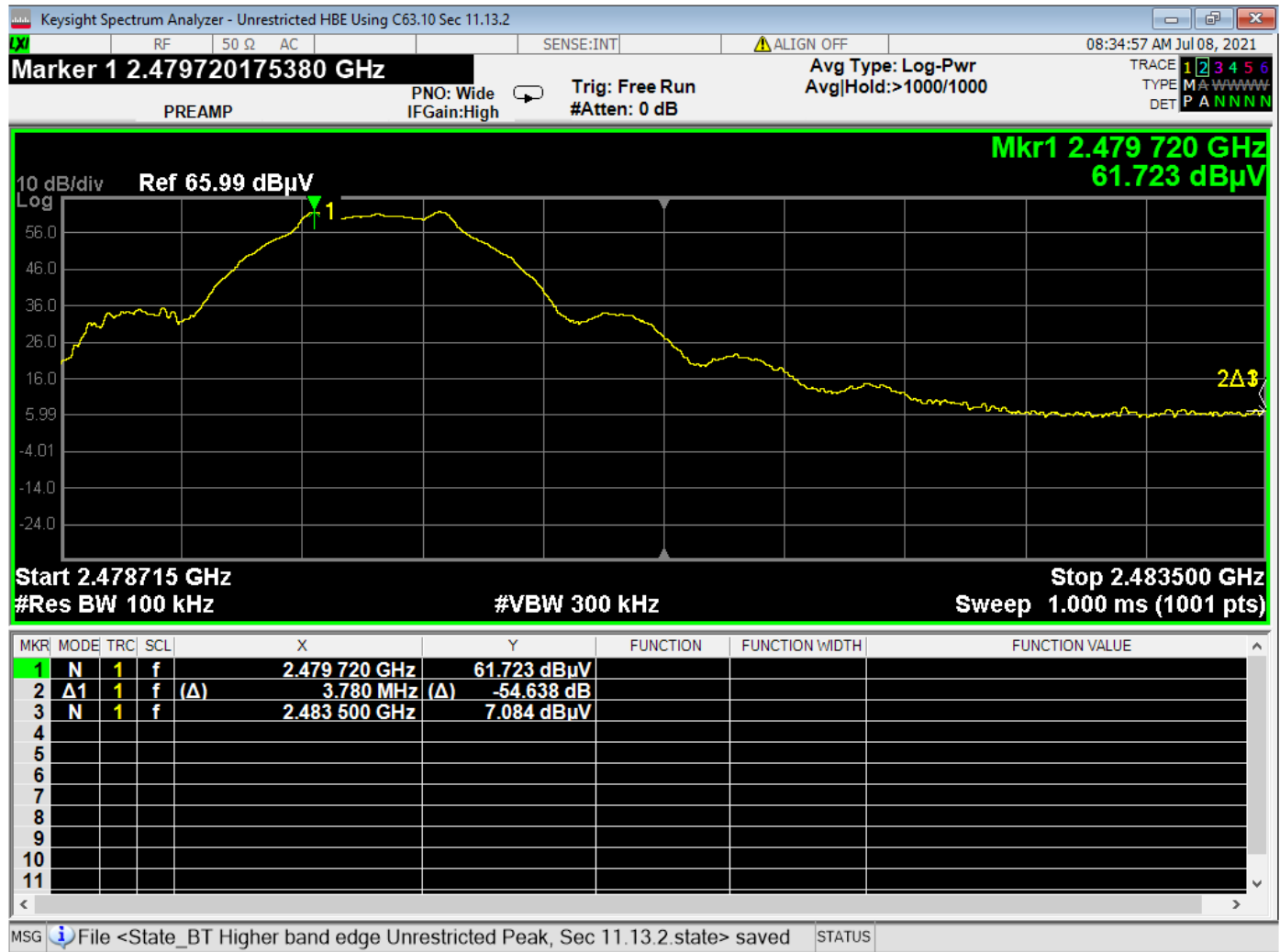
Relative Measurement

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11 Lower Band Edge, Restricted

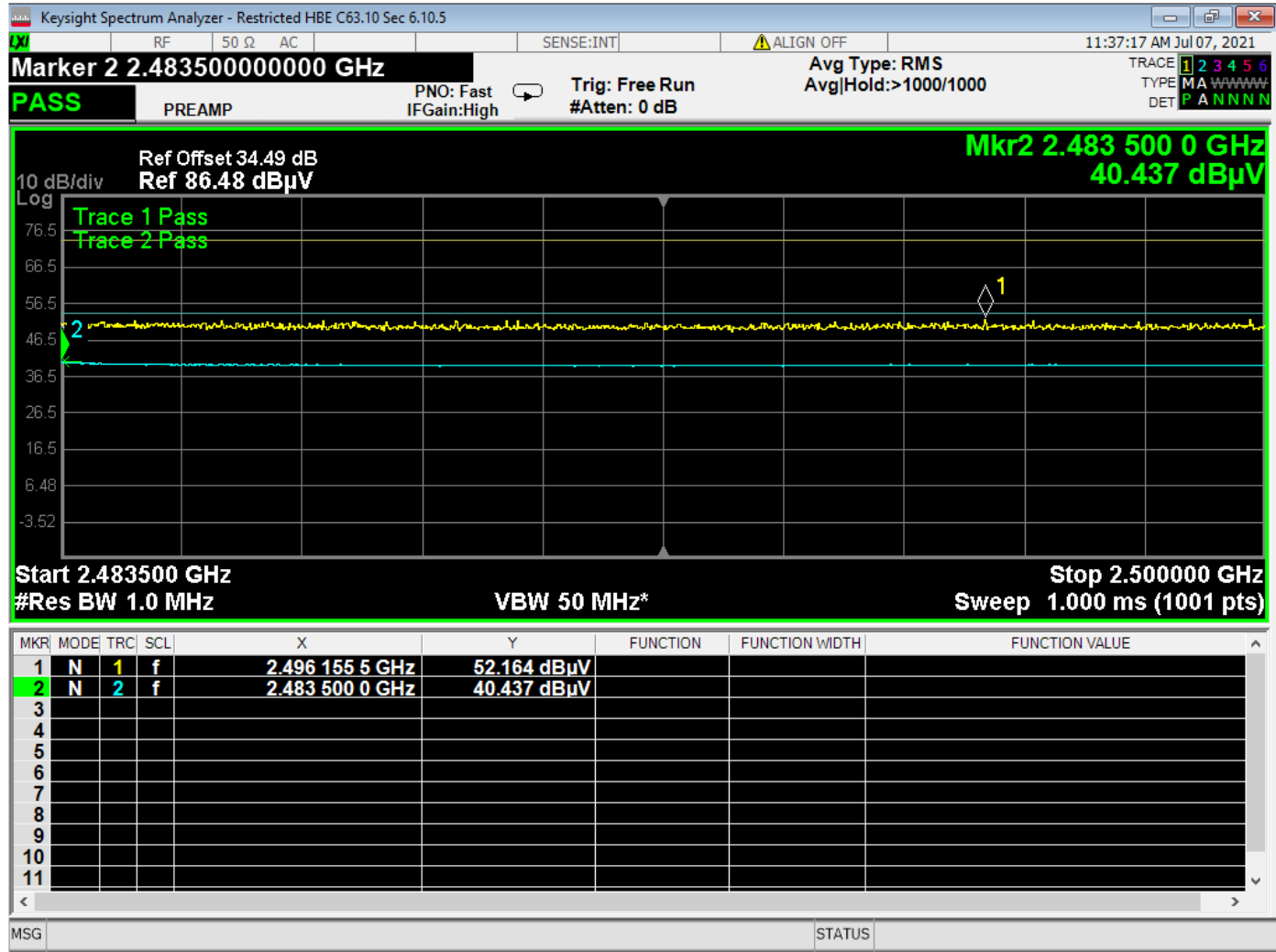
Corrected measurement



12 Higher Band Edge, Unrestricted

Relative Measurement

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13 Higher Band Edge, Restricted

Corrected measurement



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REPORT END