



Test Report for Onset Computer Corporation
Report No. EZ0729-2 Issue 1



TEST REPORT

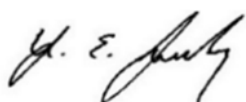
Applicant	Onset Computer Corporation
Address	470 MacArthur Blvd Bourne, Massachusetts 02532-3838 United States
FCC ID	WXF-ONST17
ISED IC	7936A-ONST17
Product Marketing Name (PMN)	Underwater PAR Data Logger
Model Name or Number	MX2502
Hardware Version Identification Number (HVIN)	A
Additional Models	None
Firmware Version Identification Number (FVIN)	15.256
Date of tests	Oct 31 to Nov 5, 2025
FCC Test Firm DN Canada CABID	US1028 US0106
The tests have been carried out according to the requirements of the following standard:	
☒ FCC Part 15, Subpart C, Section 15.247 ☒ ISED Canada RSS-247 Issue 3	
CONCLUSION: The submitted sample was found to <u>COMPLY</u> with the test requirement	
Prepared by Nisha Patel Wireless Engineer I	Approved by Yunus Faziloglu EMC Manager
	
Report Issue Date: Nov 18, 2025	Issue Number: 1
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	PREPARED BY	APPROVED BY	DATE ISSUED
1	Original release	NP	YF	Nov 18, 2025

1 SUMMARY OF TEST RESULTS

EUT was tested against the following requirements:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247), RSS-247				
STANDARD SECTION		TEST TYPE AND LIMIT	APPLICABLE	RESULT
47CFR15	RSS			
15.207	Gen 8.8	AC Power Line Conducted Emissions	N/A (Note 1)	N/A
15.205 15.209	247 3.3 247 5.5 Gen 8.9 Gen 8.10	Radiated Spurious Emissions	Y	PASS
15.247(d)	247 5.5	Conducted Spurious Emissions	Y	PASS
15.247(a)(2)	247 5.2(a)	6dB Bandwidth	Y	PASS
--	Gen 6.7	99% Occupied Bandwidth	Y	PASS
15.247(b)(3)	247 5.4(d)	Conducted Output Power	Y	PASS
15.247(e)	247 5.2(b)	Power Spectral Density	Y	PASS
15.203	Gen 6.8	Antenna Requirement	Y	PASS

Note 1: EUT is a battery-powered device without any provisions for charging.

2 MEASUREMENT UNCERTAINTY

The listed uncertainties are the worst-case uncertainty for the entire range of measurements. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results. Values for measurement uncertainty are calculated per ETSI TR 100 028 (2001).

Measurement	Expanded Uncertainty k=2	Maximum allowable uncertainty
Radio frequency (@ 2.4GHz)	3.23×10^{-8}	1×10^{-7}
RF power, conducted	0.40dB	0.75dB
Maximum frequency deviation: Within 300Hz and 6kHz of audio frequency / Within 6kHz and 25kHz of audio frequency	3.4% 0.3dB	5% 3dB
Adjacent channel power	1.9dB	3dB
Conducted spurious emission of transmitter, valid up to 12.75GHz	2.39dB	3dB
Conducted emission of receivers	1.3dB	3dB
Radiated emission of transmitter, valid up to 26.5GHz	3.9dB	6dB
Radiated emission of transmitter, valid up to 80GHz	3.3dB	6dB
Radiated emission of receiver, valid up to 26.5GHz	3.9dB	6dB
Radiated emission of receiver, valid up to 80GHz	3.3dB	6dB
Humidity	2.37%	5%
Temperature	0.7°C	1.0°C
Time	4.1%	10%
RF Power Density, Conducted	0.4dB	3dB
DC and low frequency voltages	1.3%	3%
Voltage (AC, <10kHz)	1.3%	2%
Voltage (DC)	0.62%	1%
The above reflects a 95% confidence level		

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

NOMINAL VOLTAGE	3.6VDC via Battery
MODULATION TECHNOLOGY	DTS
MODULATION TYPES	GFSK
DATA RATES	1Mbps
OPERATING FREQUENCY	2402 – 2480MHz
EUT POWER SETTING	0dBm (Customer declared maximum setting)
MEASURED OUTPUT POWER	0.23mW (Average Conducted)
ANTENNA TYPE (Customer declared information)	Internal non-detachable SMT ceramic chip with 0.5dBi Peak Gain

<i>EUT Ports:</i>									
Port Label	Port Type	No. of ports	No. Populated	Cable Type	Shielded	Ferrites	Length	Max Length	In/Out Type
None									

EUT has no ports.

Lowest clock frequency in the device (used/generated): 32MHz

Highest clock frequency in the device (used/generated): 2480MHz

NOTES:

1. For a more detailed description of the EUT, please refer to the manufacturer's specifications or the user's manual.
2. For photos of the EUT, please refer to External and Internal Photos exhibits.

3.2 DESCRIPTION OF TEST MODES

EUT has 40 operating channels as shown below:

CHANNE L	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)
37	2402	9	2422	18	2442	28	2462
0	2404	10	2424	19	2444	29	2464
1	2406	38	2426	20	2446	30	2466
2	2408	11	2428	21	2448	31	2468
3	2410	12	2430	22	2450	32	2470
4	2412	13	2432	23	2452	33	2472
5	2414	14	2434	24	2454	34	2474
6	2416	15	2436	25	2456	35	2476
7	2418	16	2438	26	2458	36	2478
8	2420	17	2440	27	2460	39	2480

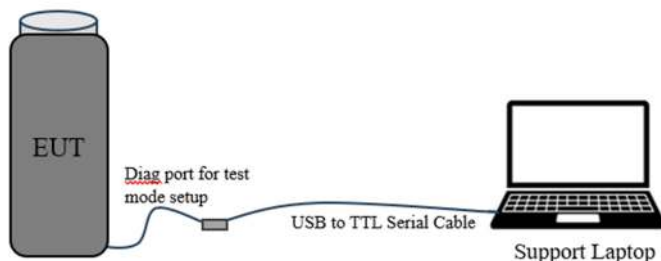
Two samples were provided for testing, one for radiated measurements and another with an SMA connector for conducted antenna port measurements. Customer provided support laptop and a serial cable for necessary test mode setups. EUT operated on 3.6VDC through batteries. Battery voltages were periodically monitored using DMM to maintain fresh voltage levels during the tests. Customer also supplied fresh batteries for the testing.

EUT configuration modes:

TEST MODE	DESCRIPTION
A	Transmit at 1Mbps (Duty-cycle: 63.27%)

EUT SETUP BLOCK DIAGRAMS:

Radiated Emissions EUT Setup



Note: Support laptop and serial cable were removed from the chamber after necessary test mode setup. Serial port on the EUT is only for the test mode setup purpose. The same setup is used for antenna port conducted measurements.

Following channels/modes were selected for the applicable tests below.

TEST	TEST MODE	AVAILABLE CHANNELS	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)	Notes
COP	A	0 to 39	37, 17, 39	GFSK	1	-
PSD	A	0 to 39	37, 17, 39	GFSK	1	-
CBE	A	0 to 39	37, 39	GFSK	1	-
6DB	A	0 to 39	37, 17, 39	GFSK	1	-
OBW	A	0 to 39	37, 17, 39	GFSK	1	-
CSE	A	0 to 39	37, 17, 39	GFSK	1	-
RSE<1G	A	0 to 39	37, 17, 39	GFSK	1	1
RSE≥1G	A	0 to 39	37, 17, 39	GFSK	1	1
RBE	A	0 to 39	37, 39	GFSK	1	1
PLCE	-	-	-	-	-	2

Note:

1. Radiated emissions testing was performed on EUT's single installation orientation (X-Axis) when the sensor is in upright position. Please refer to the "Test Setup Photos Exhibit" for details.
2. Not applicable since EUT is battery powered only without any provisions for charging.

COP: Conducted Output Power

PSD: Power Spectral Density

CBE: Conducted Band-edge

6DB: 6dB Bandwidth

OBW: 99% Occupied Bandwidth

CSE: Conducted Spurious Emissions

RSE<1G: Radiated Spurious Emissions Below 1GHz

RSE≥1G: Radiated Spurious Emissions Above 1GHz

RBE: Radiated Band-edge

PLCE: Power Line Conducted Emissions



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TEST CONDITIONS:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY	DATE OF TEST
RE<1G	20.5°C, 40.9% RH, 1005.6 mbar 20.9°C, 46.7% RH, 1000.6 mbar	3.6VDC	NP	11-03-2025 11-04-2025
RE≥1G	20.9°C, 52.5% RH, 978 mbar 20.9°C, 46.7% RH, 1000.6 mbar	3.6VDC	NP	10-31-2025 11-04-2025
Band Edges	20.9°C, 52.5% RH, 978 mbar	3.6VDC	NP	10-31-2025
Antenna Port Measurements	20.0°C, 49.5% RH, 1009 mbar	3.6VDC	NP	11-05-2025



3.3 MEASUREMENT PROCEDURES USED

All tests were performed in accordance with the following measurement procedures:

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2020

3.4 DESCRIPTION OF SUPPORT EQUIPMENT

Support Equipment	Model #	Serial #	Comments
Laptop (customer supplied)	Dell Latitude 5520	-	For necessary test mode setup
Serial cable	TTL-232R-3V3	250200150	

4 Test Results

4.1 RADIATED SPURIOUS EMISSIONS

4.1.1 LIMITS

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emissions limits specified in Section 15.209(a).

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

- Lower limit applies at the transition frequencies.
- As specified in 15.35(b), for frequencies above 1000MHz, field strength limits are based on the use of measurement instrumentation employing an average detector function. However, there is also a limit on the peak level of the emissions that is 20 dB above the maximum permitted average emission limit.
- Measurements above 6GHz or 18GHz can be performed at distances less than 3m from the EUT due to increased noise floor of the measurement system. Since such measurements produce higher amplitudes than what they would be if they were measured at 3 meters, this would be considered worst-case and no compensation back to 3 meters is needed. Limit conversion above 30MHz is done by using inverse linear distance extrapolation factor (20dB/decade) as allowed in FCC 15.31(f)(1).

$$\text{Limit}(1\text{m}) = \text{Limit}(3\text{m}) + 20 \cdot \log(3/1) = \text{Limit}(3\text{m}) + 9.5$$

$$\text{Limit}(0.1\text{m}) = \text{Limit}(3\text{m}) + 20 \cdot \log(3/0.1) = \text{Limit}(3\text{m}) + 29.5$$
- Limit conversion below 30MHz is done by using the square of an inverse linear distance extrapolation factor (40 dB/decade) as allowed in FCC 15.31(f)(2).

$$\text{Limit}(3\text{m}) = \text{Limit}(30\text{m}) + 40 \cdot \log(30/3) = \text{Limit}(30\text{m}) + 40$$

$$\text{Limit}(3\text{m}) = \text{Limit}(300\text{m}) + 40 \cdot \log(300/3) = \text{Limit}(300\text{m}) + 80$$
- Adjusted Reading (dBuV/m) = Raw Reading (dBuV) + Transducer(Correction) Factor (dB/m)
 Transducer Factor (dB/m) = Antenna Factor (dB/m) – PreAmp Gain (dB) + Cable Loss (dB) + Filter Loss (dB)
 Note: Filter loss only applies if a notch filter is used during testing.
- RSS-GEN Table 6 H-field limits are 51.5dB lower than FCC 15.209(a) E-field limits. Measurements are performed in terms of magnetic field and converted to electric field using the free space impedance of 377Ω (E-field = H-field + 51.5). Therefore resulting pass/fail margin would be the same if an E-field reading is compared to an E-field limit or an H-field reading is compared to an H-field limit.



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4.1.2 TEST EQUIPMENT USED

Rev. 11/7/2025								
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range	Asset	Cat	Calibration Due	Calibrated on
EMI Chamber 1	719150	2762A-6	A-0015	30-1000MHz	1685	I	9/19/2026	9/19/2024
EMI Chamber 1	719150	2762A-6	A-0015	1-18GHz	1685	I	9/19/2026	9/19/2024
Spectrum Analyzers / Receivers /Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Gauss TDEMI Ultra 40	9kHz-40Ghz	TDEMI Ultra 40	Gauss	2305001	2855	1	7/31/2026	7/31/2025
Instrument FW v6.91.6								
Instrument SW v6.91.6								
EMI64k Test Tool SW v6.32								
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Red-Brown Bilog	30-2000MHz	JB1	Sunol	A0032406	1218	I	4/9/2027	4/9/2025
Blue Horn	1-18Ghz	3117	ETS	157647	1861	I	3/17/2026	3/17/2025
3116C Horn / PA	18-40GHz	3116C	ETS	258845	2852	I	3/21/2026	3/21/2024
3117 Horn / PA	1-18GHZ	3117	ETS	259199	2854	I	3/21/2026	3/21/2024
Preamps /Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
2311 PA	1-1000MHz	PAM-103	COM-POWER	441174	2311	II	2/3/2026	2/3/2025
2116 BRF	0.009-18000MHz	BRM50702	Micro-Tronics	G226	2116	II	4/28/2026	4/28/2025
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2610	9KHz-18GHz		Pasternack			II	2/18/2026	2/18/2025
Asset #2681	9KHz-18GHz		Pasternack			II	12/9/2025	12/9/2024
Asset #2474	9KHz-18GHz		MegaPhase			II	11/29/2025	10/29/2024
Asset #2594	9KHz-40GHz		Carlisle			II	2/19/2026	2/19/2025
Asset #2595	9KHz-40GHz		Carlisle			II	2/19/2026	2/19/2025
Meteorological Meters/Chambers		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Asset 2848		SD700	EXTECH	A.115171	2848	I	1/31/2027	1/31/2025
RMS Voltmeters/Current Clamp		MN	Mnfr	SN	Asset	Cat	Calibration Due	Calibrated on
True-RMS Multimeter		79III	Fluke	71700298	769	I	1/22/2026	1/22/2025
All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.								

4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber.
- b. For below 30MHz, a loop antenna with its lowest point 1m above the ground was placed 3m away from the EUT and it was rotated 0 and 90 degrees around its vertical axis.
- c. In 30MHz-1GHz range, a biconilog antenna was mounted on a variable-height antenna tower and placed 3m away from the EUT. Antenna height was varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were investigated. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. In 1GHz-18GHz range, a horn antenna was mounted on a variable-height antenna tower and placed 3m away from the EUT. Antenna height was varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were investigated. The table was rotated 360 degrees to determine the position of the highest radiation.
- e. In 18-25GHz a smaller horn antenna was used to make measurements 1m away from the EUT.
- f. For battery operating equipment, tests were performed using fresh batteries.
- g. The following bandwidths were used during emissions testing:

Freq. (MHz)	RBW	Pre- scan	Final
0.009-0.15	200Hz	Peak	Not required based on pre-scan data
0.15-30	9kHz	Peak	Not required based on pre-scan data
30-1000	120kHz	Peak	Quasi Peak
>1000	1MHz	Peak	Peak Max Hold and RMS Power Avg (Max Hold)

Note: Since the instrument used for these measurements is a CISPR 16-1-1 compliant EMI Receiver, Video Bandwidth (VBW) is automatically set by the instrument per standard specifications and is not user changeable.

Per FCC §15.209(d), limits §15.209(a) are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. If peak measurements in these frequency bands were below the applicable limits, QPk and RMS measurements were not performed.

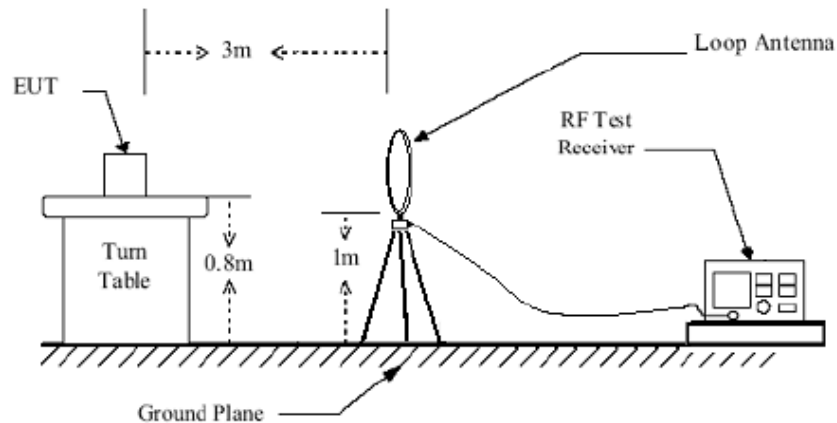
RMS power averaging default mode in measurement software is trace max-hold.

4.1.4 DEVIATIONS

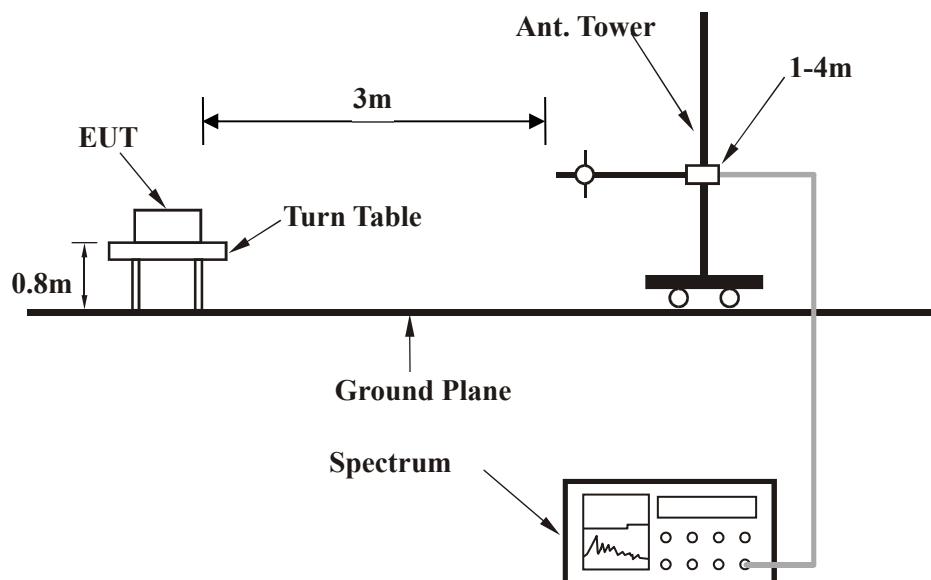
No deviations from the standard.

4.1.5 TEST SETUP

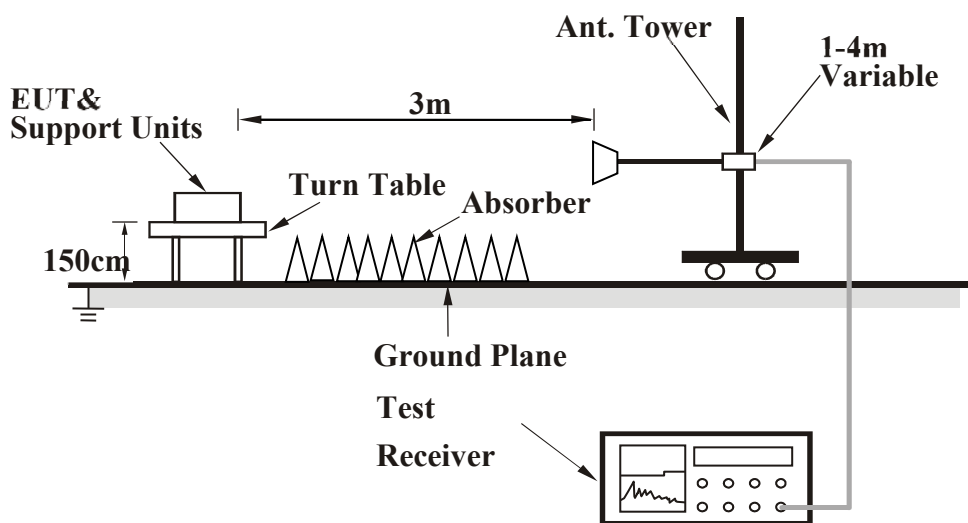
Below 30MHz Test Setup



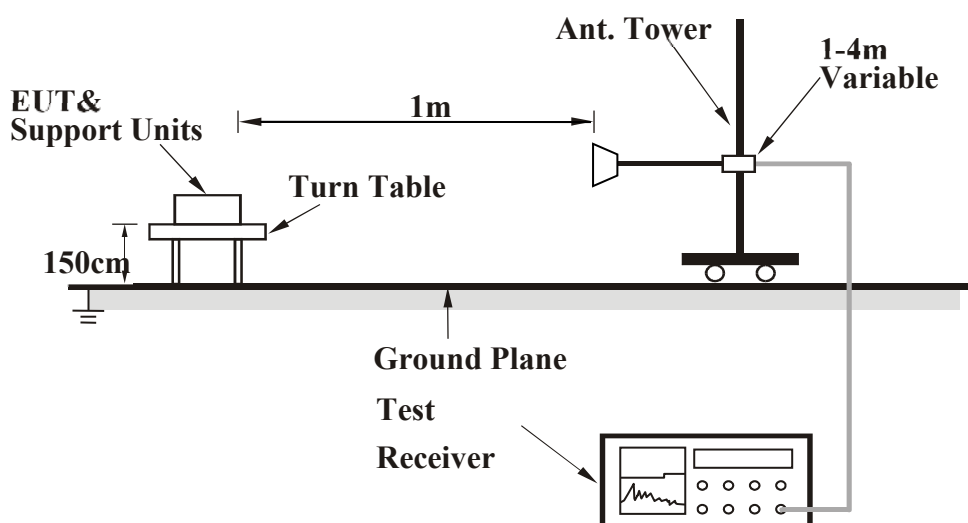
30MHz - 1GHz Test Setup



1GHz – 18GHz Test Setup



18GHz – 25GHz Test Setup



Note: For the actual test configuration, please refer to the Test Setup Photos exhibit.

4.1.6 EUT OPERATING CONDITIONS

EUT was operated according to the manufacturer's specifications.

4.1.7 TEST RESULTS

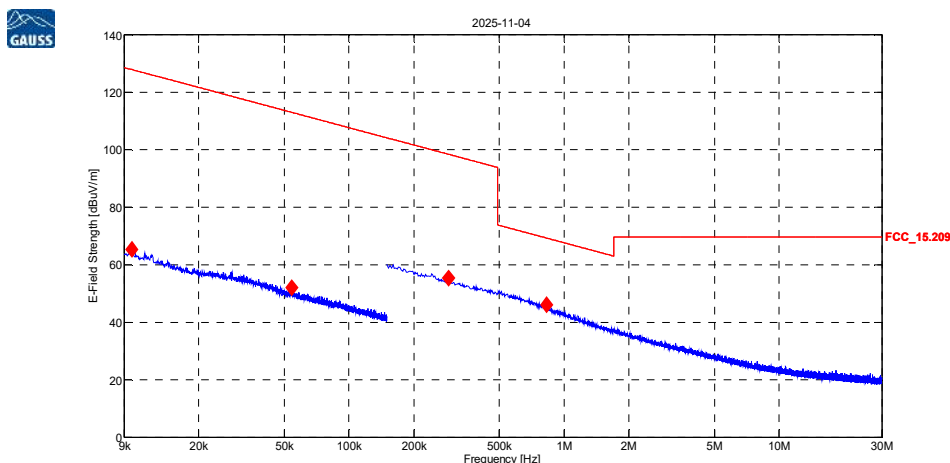
Emissions below 30MHz

BLE 1Mbps GFSK

Channel 37

Traces:

Trace	Start	Step	Stop	RBW	Detector	Dwell time	Att.	Mkr.
Scan1	9.0 kHz	100.0 Hz	150.0 kHz	200Hz	MaxPeak	100.0 ms	10	◆
Scan2	150.0 kHz	5.0 kHz	30.0 MHz	9kHz	MaxPeak	100.0 ms	10	◆



Scan1: 9.0 kHz, 100.0 Hz, 150.0 kHz; IF:200Hz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.8 kHz	65.22	127.77	62.56	Parallel	100	242.203	18.52	FCC 15.209
54.1 kHz	51.92	112.93	61.01	Parallel	100	104.758	10.76	FCC 15.209

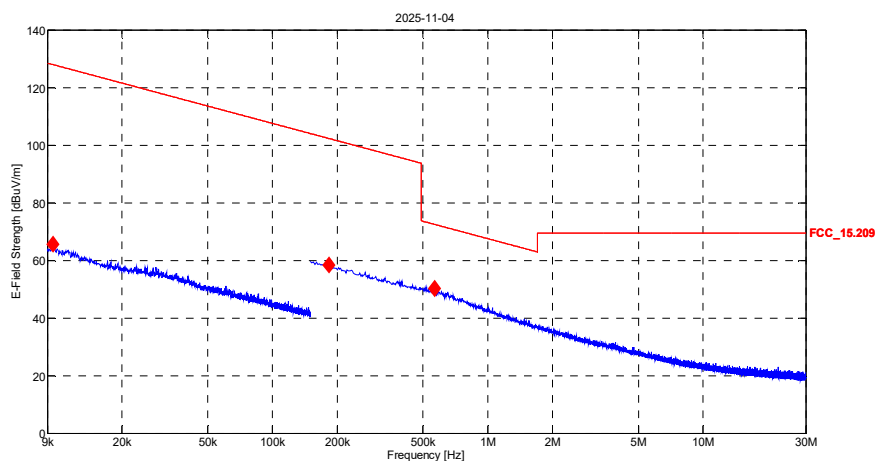
Scan2: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
290 kHz	55.36	98.35	43.00	Parallel	100	220.169	9.86	FCC 15.209
827.5 kHz	46.10	69.24	23.14	Parallel	100	129.131	10.35	FCC 15.209

9k-30MHz Parallel, Plot and Data Table



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Scan1: 9.0 kHz, 100.0 Hz, 150.0 kHz; IF:200Hz, 100.0 ms MaxPeak, Att 10dB

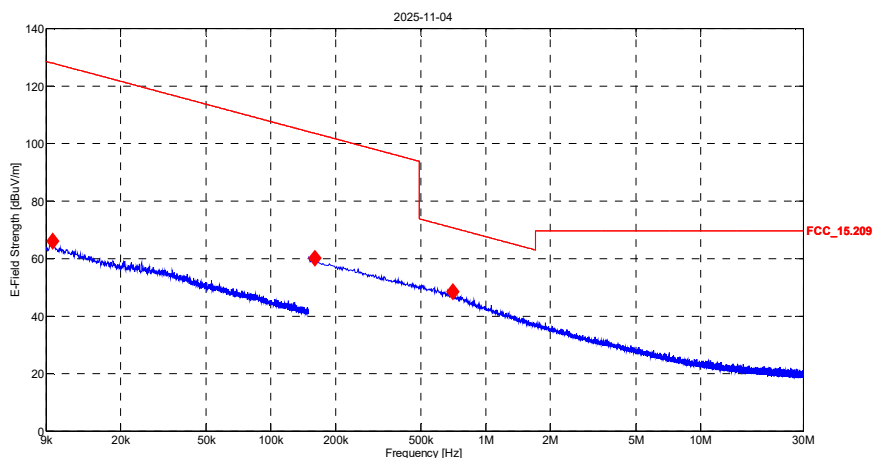
f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.55 kHz	65.57	127.99	62.43	Perpendicular	100	235.238	18.65	FCC_15.209

Scan2: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
182.5 kHz	58.50	102.38	43.88	Perpendicular	100	215.798	9.94	FCC_15.209
565 kHz	50.19	72.56	22.37	Perpendicular	100	123.314	10.20	FCC_15.209

9k-30MHz Perpendicular, Plot and Data Table

Channel 17



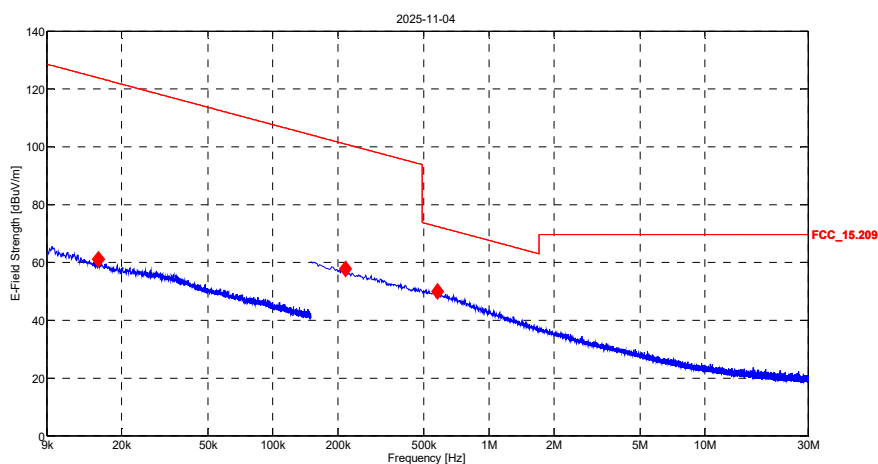
Scan1: 9.0 kHz, 100.0 Hz, 150.0 kHz; IF:200Hz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
9.65 kHz	65.93	127.90	61.98	Parallel	100	183.626	18.59	FCC_15.209

Scan2: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
160 kHz	60.09	103.52	43.43	Parallel	100	146.351	9.95	FCC_15.209
702.5 kHz	48.50	70.67	22.16	Parallel	100	17.139	10.30	FCC_15.209

9k-30MHz Parallel, Plot and Data Table



Scan1: 9.0 kHz, 100.0 Hz, 150.0 kHz; IF:200Hz, 100.0 ms MaxPeak, Att 10dB

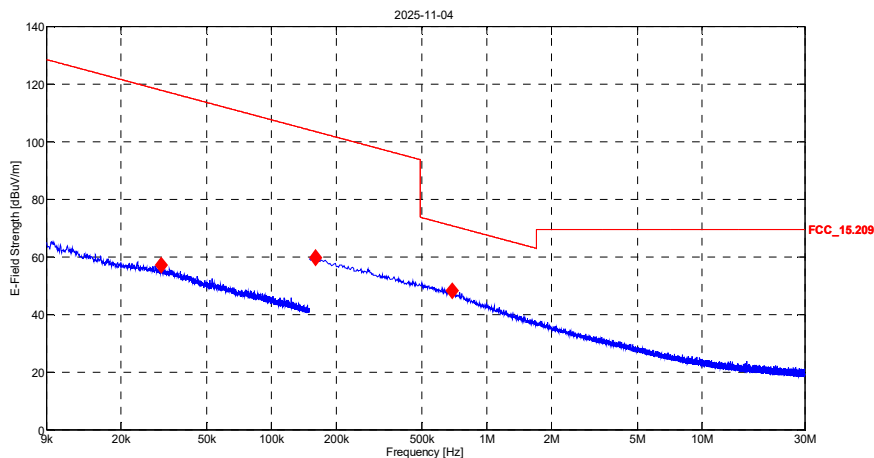
f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
15.6 kHz	60.99	123.73	62.75	Perpendicular	100	27.363	14.96	FCC_15.209

Scan2: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
217.5 kHz	57.77	100.85	43.08	Perpendicular	100	93.375	9.92	FCC_15.209
577.5 kHz	49.92	72.37	22.45	Perpendicular	100	264.688	10.21	FCC_15.209

9k-30MHz Perpendicular, Plot and Data Table

Channel 39



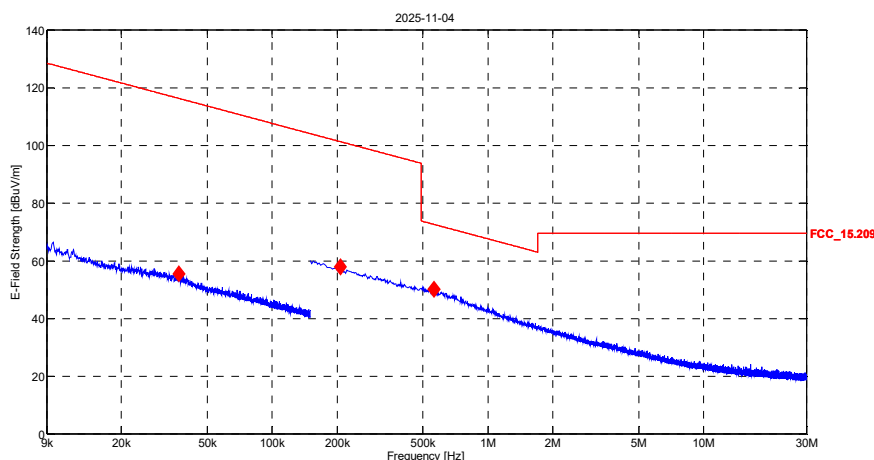
Scan1: 9.0 kHz, 100.0 Hz, 150.0 kHz; IF:200Hz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
30.85 kHz	57.05	117.81	60.76	Parallel	100	169.284	12.86	FCC_15.209

Scan2: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
160 kHz	59.74	103.52	43.78	Parallel	100	91.194	9.95	FCC_15.209
692.5 kHz	48.24	70.79	22.55	Parallel	100	191.369	10.30	FCC_15.209

9k-30MHz Parallel, Plot and Data Table



Scan1: 9.0 kHz, 100.0 Hz, 150.0 kHz; IF:200Hz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
36.95 kHz	55.48	116.25	60.76	Perpendicular	100	108.1	12.13	FCC_15.209

Scan2: 150.0 kHz, 5.0 kHz, 30.0 MHz; IF:9kHz, 100.0 ms MaxPeak, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Name
207.5 kHz	57.82	101.26	43.44	Perpendicular	100	110.663	9.92	FCC_15.209
562.5 kHz	50.12	72.60	22.48	Perpendicular	100	342.2	10.19	FCC_15.209

9k-30MHz Perpendicular, Plot and Data Table



Test Report for Onset Computer Corporation
Report No. EZ0729-2 Issue 1

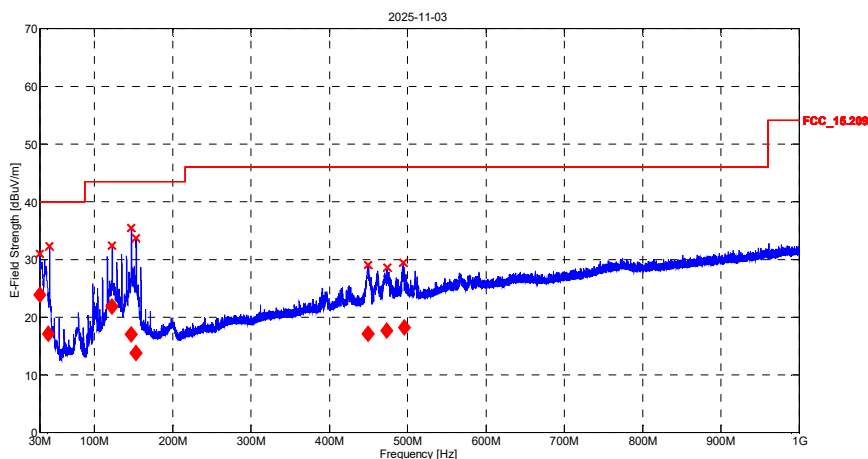


30MHz-1000MHz
BLE 1Mbps GFSK

Traces:

Trace	Start	Step	Stop	RBW	Detector	Dwell time	Att.	Notes	Mkr.
Scan1	30.0 MHz	50.0 kHz	1.0 GHz	120kHz	MaxPeak	100.0 ms	10		✗
Final 1	-	-	-	120kHz	QP	200.0 ms	10	Final	◆

Channel 37



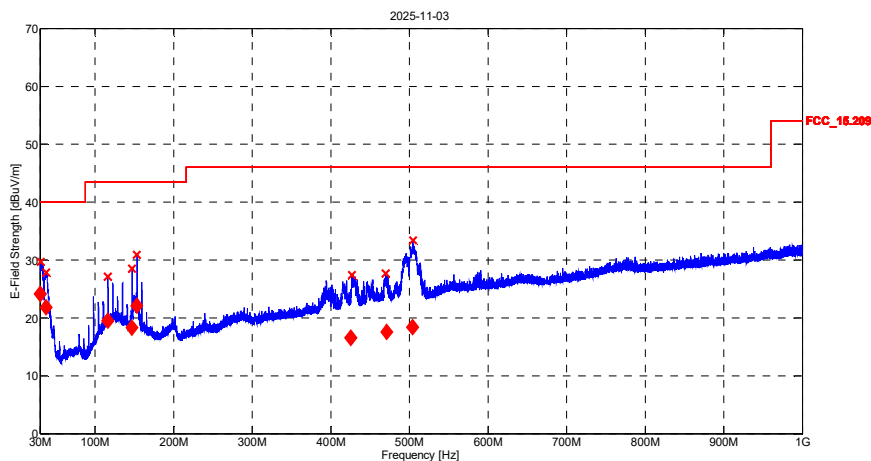
Final 1: 30.0 MHz, 50.0 kHz, 496.8 MHz; IF:120kHz, 200.0 ms QP, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
30.575 MHz	23.88	40.00	16.12	V	348.38	100.36	-6.95	FCC 15.209
40.925 MHz	17.08	40.00	22.92	V	206.286	123.15	-15.16	FCC 15.209
122.55 MHz	21.84	43.50	21.66	V	288.386	100	-14.24	FCC 15.209
147 MHz	16.96	43.50	26.54	V	66.806	148.625	-15.35	FCC 15.209
153.175 MHz	13.73	43.50	29.77	V	74.198	100	-15.55	FCC 15.209
449.375 MHz	17.05	46.00	28.95	V	232.76	230.487	-9.85	FCC 15.209
473.225 MHz	17.62	46.00	28.38	V	0	336.65	-9.03	FCC 15.209
495.775 MHz	18.19	46.00	27.81	V	146.52	150.062	-8.49	FCC 15.209

30-1000MHz Vertical, Plot and Data Table



Test Report for Onset Computer Corporation
Report No. EZ0729-2 Issue 1

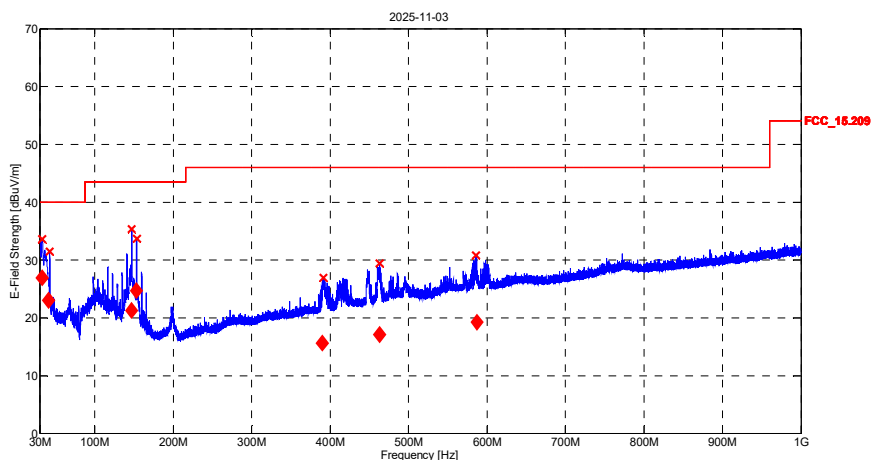


Final 1: 30.0 MHz, 50.0 kHz, 506.7 MHz; IF:120kHz, 200.0 ms QP, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
30.5 MHz	24.08	40.00	15.92	H	116.061	251.122	-6.95	FCC_15.209
116.45 MHz	19.51	43.50	23.99	H	270.841	307.1	-14.88	FCC_15.209
147 MHz	18.25	43.50	25.25	H	47.536	296.211	-15.35	FCC_15.209
153.175 MHz	22.10	43.50	21.40	H	47.536	350	-15.55	FCC_15.209
425.85 MHz	16.55	46.00	29.45	H	351.678	150	-10.15	FCC_15.209
471 MHz	17.52	46.00	28.48	H	247.2	297.05	-9.22	FCC_15.209
503.85 MHz	18.36	46.00	27.64	H	270.841	384.15	-8.28	FCC_15.209
37.675 MHz	21.79	40.00	18.21	H	336.922	100.02	-11.63	FCC_15.209

30-1000MHz Horizontal, Plot and Data Table

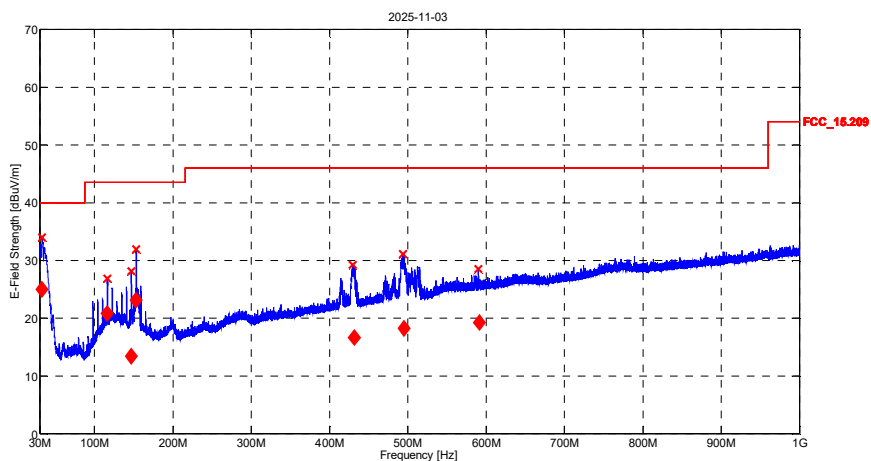
Channel 17



Final 1: 30.9 MHz, 50.0 kHz, 587.9 MHz; IF:120kHz, 200.0 ms QP, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
33.275 MHz	26.87	40.00	13.13	V	54.85	100.4	-7.63	FCC 15.209
40.925 MHz	23.00	40.00	17.00	V	205.97	150.08	-15.16	FCC 15.209
147.075 MHz	21.22	43.50	22.28	V	73.432	100	-15.35	FCC 15.209
153.175 MHz	24.71	43.50	18.79	V	73.432	129.633	-15.55	FCC 15.209
389.875 MHz	15.63	46.00	30.37	V	12.58	100	-11.20	FCC 15.209
462.975 MHz	17.06	46.00	28.94	V	12.58	150	-9.46	FCC 15.209
587.625 MHz	19.18	46.00	26.82	V	12.58	100	-7.08	FCC 15.209

30-1000MHz Vertical, Plot and Data Table



Final 1: 31.4 MHz, 50.0 kHz, 592.4 MHz; IF:120kHz, 200.0 ms QP, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
33.025 MHz	24.92	40.00	15.08	H	314.777	220.844	-7.99	FCC 15.209
116.45 MHz	20.83	43.50	22.67	H	271.314	200	-14.86	FCC 15.209
153.175 MHz	23.09	43.50	20.41	H	52.16	300.055	-15.55	FCC 15.209
431.425 MHz	16.61	46.00	29.39	H	142.875	205.2	-10.11	FCC 15.209
495.2 MHz	18.15	46.00	27.85	H	142.875	237.25	-8.56	FCC 15.209
591.225 MHz	19.22	46.00	26.78	H	113.643	300	-7.02	FCC 15.209
147.075 MHz	13.36	43.50	30.14	H	318.23	341.667	-15.35	FCC 15.209

30-1000MHz Horizontal, Plot and Data Table

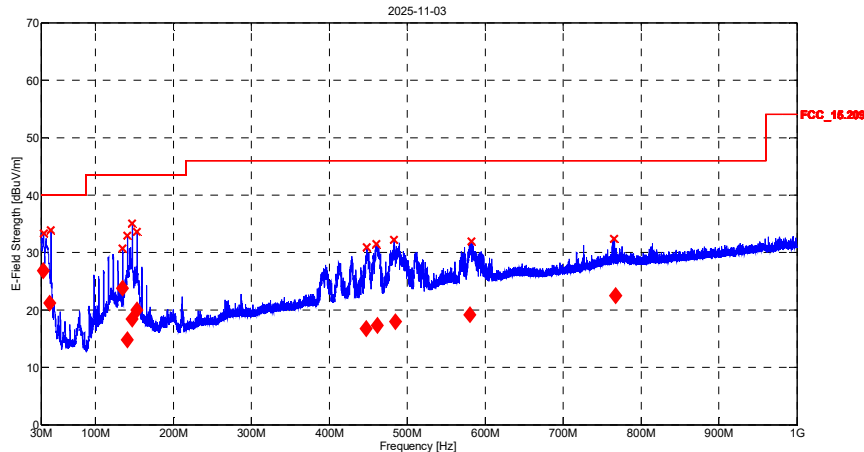


BUREAU
VERITAS

Test Report for Onset Computer Corporation Report No. EZ0729-2 Issue 1



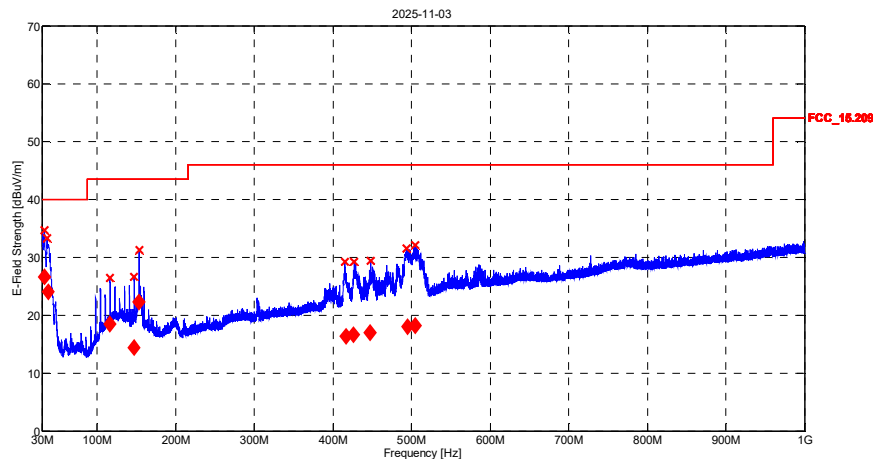
Channel 39



Final 1: 31.4 MHz, 50.0 kHz, 767.8 MHz; IF:120kHz, 200.0 ms QP, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
33.175 MHz	26.81	40.00	13.19	V	166.324	104.02	-8.04	FCC_15.209
40.95 MHz	21.19	40.00	18.81	V	212.361	150	-15.17	FCC_15.209
140.975 MHz	14.73	43.50	28.77	V	309.728	100.52	-14.80	FCC_15.209
147.075 MHz	18.36	43.50	25.14	V	309.728	113.192	-15.35	FCC_15.209
153.225 MHz	19.94	43.50	23.56	V	55.3	100	-15.55	FCC_15.209
447.7 MHz	16.74	46.00	29.26	V	91.798	250	-9.86	FCC_15.209
461.475 MHz	17.31	46.00	28.69	V	166.324	100.2	-9.56	FCC_15.209
485.125 MHz	17.90	46.00	28.10	V	177.455	100	-8.71	FCC_15.209
580.7 MHz	19.10	46.00	26.90	V	166.324	125.7	-7.10	FCC_15.209
767.325 MHz	22.49	46.00	23.51	V	82.05	148.08	-3.34	FCC_15.209
134.825 MHz	23.76	43.50	19.74	V	208.181	100	-14.11	FCC_15.209

30-1000MHz Vertical, Plot and Data Table



Final 1: 31.0 MHz, 50.0 kHz, 507.0 MHz; IF:120kHz, 200.0 ms QP, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
33.025 MHz	26.65	40.00	13.35	H	344.257	100	-7.74	FCC_15.209
37.525 MHz	24.02	40.00	15.98	H	344.257	150.1	-10.44	FCC_15.209
116.45 MHz	18.51	43.50	24.99	H	273.067	350.1	-14.86	FCC_15.209
147.075 MHz	14.37	43.50	29.13	H	318.746	399.875	-15.36	FCC_15.209
153.175 MHz	22.22	43.50	21.28	H	47.649	264.7	-15.55	FCC_15.209
416.6 MHz	16.31	46.00	29.69	H	72.423	130.9	-10.52	FCC_15.209
426.6 MHz	16.64	46.00	29.36	H	360	199.938	-10.15	FCC_15.209
447.125 MHz	16.95	46.00	29.05	H	190.564	106.7	-9.86	FCC_15.209
495.35 MHz	17.97	46.00	28.03	H	18.642	200	-8.50	FCC_15.209
505.05 MHz	18.17	46.00	27.83	H	261.365	382.6	-8.25	FCC_15.209

30-1000MHz Horizontal, Plot and Data Table

Bureau Veritas Consumer Product
Services Inc.

One Distribution Center Circle, #1
Littleton, MA

Tel.: (978) 486-8880
Fax: (978) 486-8828

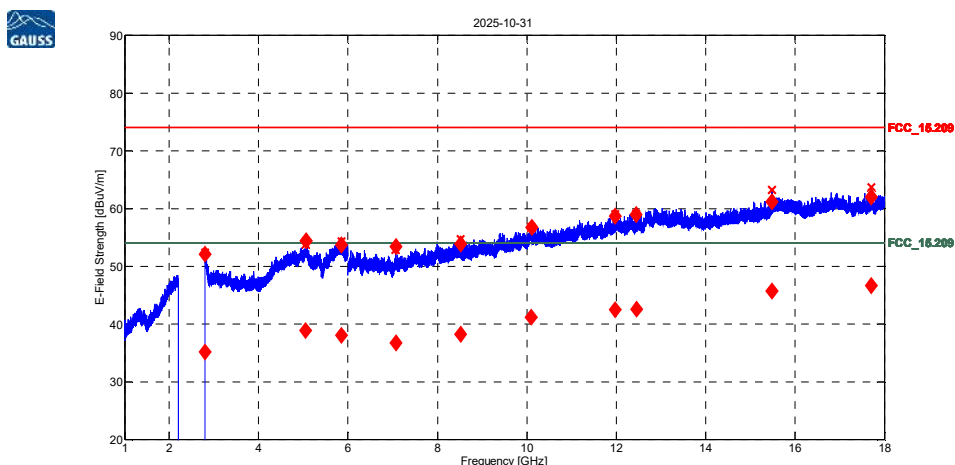
1-18GHz

BLE 1Mbps GFSK

Traces:

Trace	Start	Step	Stop	RBW	Detector	Dwell time	Att.	Notes	Mkr.
Scan1	1.0 GHz	50.0 kHz	6.0 GHz	1MHz	MaxPeak	100.0 ms	0		✗
Scan2	6.0 GHz	50.0 kHz	18.0 GHz	1MHz	MaxPeak	100.0 ms	0		✗
Final 1	-	-	-	1MHz	MaxPeak	100.0 ms	0	Final	♦
Final 2	-	-	-	1MHz	RMS	100.0 ms	0	Final	♦

Channel 37



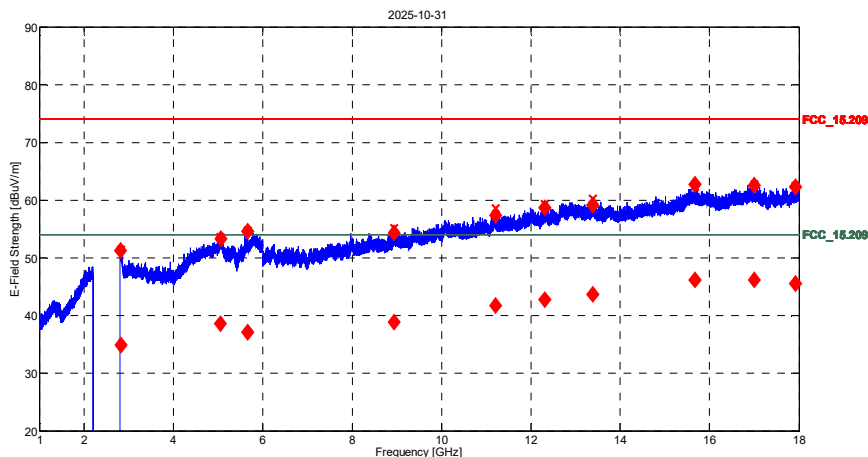
Final 1: 2.8 GHz, 50.0 kHz, 17.7 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.8055 GHz	52.09	74.00	21.91	V	122.331	117.248	41.96	FCC_15.209
5.05575 GHz	54.35	74.00	19.65	V	264.723	150.042	39.46	FCC_15.209
5.84875 GHz	53.68	74.00	20.32	V	34.454	371.98	40.94	FCC_15.209
7.06675 GHz	53.35	74.00	20.65	V	284.056	327.788	41.81	FCC_15.209
8.52375 GHz	53.83	74.00	20.17	V	76.522	100	43.37	FCC_15.209
10.10525 GHz	56.70	74.00	17.30	V	48.35	135.035	45.84	FCC_15.209
11.9735 GHz	58.61	74.00	15.39	V	0	350	47.78	FCC_15.209
12.44675 GHz	58.96	74.00	15.04	V	298.744	120.826	47.66	FCC_15.209
15.48125 GHz	61.18	74.00	12.82	V	0	281.488	50.81	FCC_15.209
17.70875 GHz	62.04	74.00	11.96	V	145.9	100	51.21	FCC_15.209

Final 2: 2.8 GHz, 50.0 kHz, 17.7 GHz; IF:1MHz, 100.0 ms RMS, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.8015 GHz	35.13	54.00	18.87	V	122.331	100	41.96	FCC_15.209
5.0525 GHz	38.85	54.00	15.15	V	264.723	195.212	39.46	FCC_15.209
5.84875 GHz	38.05	54.00	15.95	V	34.454	358.364	40.94	FCC_15.209
7.06675 GHz	36.71	54.00	17.29	V	284.056	250	41.81	FCC_15.209
8.5245 GHz	38.20	54.00	15.80	V	76.522	126.857	43.37	FCC_15.209
10.104 GHz	41.12	54.00	12.88	V	48.35	108.843	45.84	FCC_15.209
11.9755 GHz	42.44	54.00	11.56	V	0	250	47.78	FCC_15.209
12.4495 GHz	42.55	54.00	11.45	V	298.744	150	47.66	FCC_15.209
15.482 GHz	45.71	54.00	8.29	V	0	208.846	50.81	FCC_15.209
17.71075 GHz	46.65	54.00	7.35	V	145.9	150	51.21	FCC_15.209

1-18GHz Vertical, Plot and Data Table



Final 1: 2.8 GHz, 50.0 kHz, 17.9 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 0dB

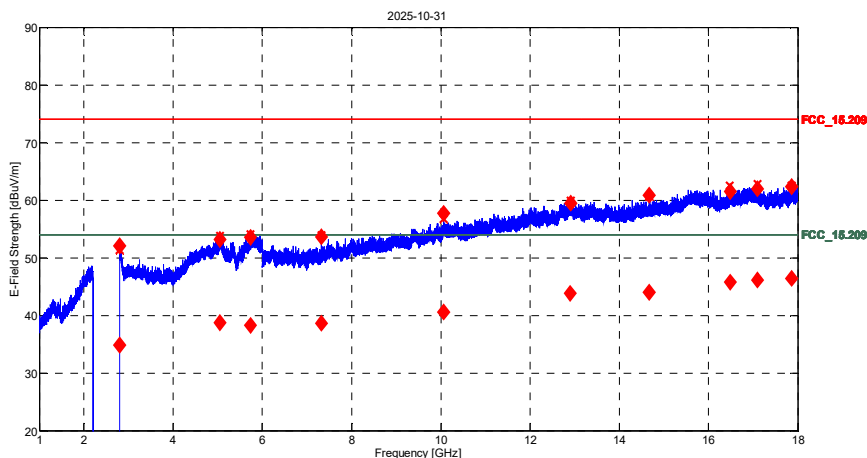
f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.817 GHz	51.23	74.00	22.77	H	72.449	207.83	41.64	FCC_15.209
5.0565 GHz	53.26	74.00	20.74	H	100.406	200	39.46	FCC_15.209
5.656 GHz	54.55	74.00	19.45	H	33.734	208.231	40.88	FCC_15.209
8.937 GHz	54.31	74.00	19.69	H	23.672	100.117	43.65	FCC_15.209
11.21175 GHz	57.36	74.00	16.64	H	360	399.756	46.39	FCC_15.209
12.30925 GHz	58.63	74.00	15.37	H	165.055	200	47.87	FCC_15.209
13.38525 GHz	59.13	74.00	14.87	H	360	140.553	48.48	FCC_15.209
15.67075 GHz	62.77	74.00	11.23	H	0	176.254	51.11	FCC_15.209
17.00175 GHz	62.57	74.00	11.43	H	246.763	150	51.36	FCC_15.209
17.92025 GHz	62.31	74.00	11.69	H	82.707	108.429	51.55	FCC_15.209

Final 2: 2.8 GHz, 50.0 kHz, 17.9 GHz; IF:1MHz, 100.0 ms RMS, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.821 GHz	34.84	54.00	19.16	H	72.449	207.83	41.64	FCC_15.209
5.0525 GHz	38.61	54.00	15.39	H	100.406	205.805	39.46	FCC_15.209
5.654 GHz	37.09	54.00	16.91	H	33.734	222.477	40.88	FCC_15.209
8.937 GHz	38.85	54.00	15.15	H	23.672	133.383	43.65	FCC_15.209
11.21325 GHz	41.67	54.00	12.33	H	360	300	46.39	FCC_15.209
12.312 GHz	42.69	54.00	11.31	H	165.055	300	47.87	FCC_15.209
13.384 GHz	43.64	54.00	10.36	H	360	150	48.48	FCC_15.209
15.6715 GHz	46.15	54.00	7.85	H	0	116.446	51.11	FCC_15.209
17.00375 GHz	46.19	54.00	7.81	H	246.763	150	51.36	FCC_15.209
17.92025 GHz	45.46	54.00	8.54	H	82.707	100	51.55	FCC_15.209

1-18GHz Horizontal, Plot and Data Table

Channel 17



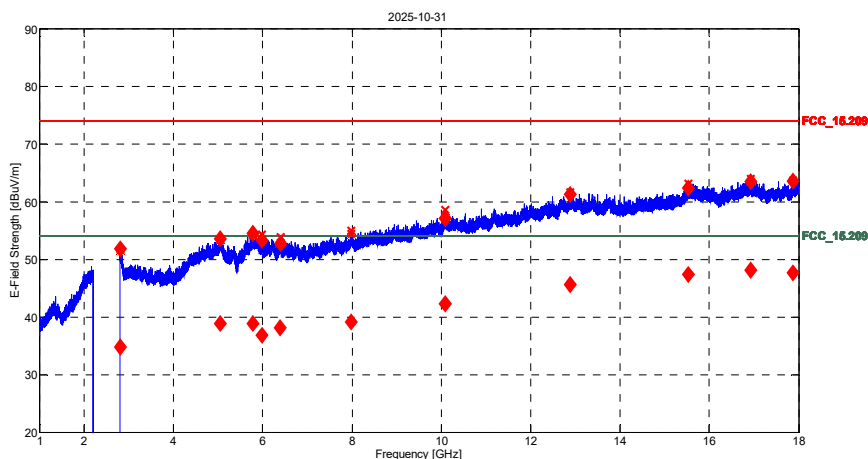
Final 1: 2.8 GHz, 50.0 kHz, 17.9 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.80625 GHz	52.13	74.00	21.87	V	197.334	349.805	41.94	FCC_15.209
5.05225 GHz	53.18	74.00	20.82	V	123.325	121.765	39.46	FCC_15.209
5.7365 GHz	53.52	74.00	20.48	V	146.521	383.256	40.70	FCC_15.209
7.319 GHz	53.62	74.00	20.38	V	327.278	187.762	42.38	FCC_15.209
10.0665 GHz	57.72	74.00	16.28	V	150.433	200	45.63	FCC_15.209
12.9045 GHz	59.48	74.00	14.52	V	216.474	123.3	49.22	FCC_15.209
14.6635 GHz	60.91	74.00	13.09	V	61.187	147.54	48.68	FCC_15.209
16.4825 GHz	61.57	74.00	12.43	V	0	339.202	50.58	FCC_15.209
17.09875 GHz	62.00	74.00	12.00	V	307.261	136.443	50.99	FCC_15.209
17.8675 GHz	62.35	74.00	11.65	V	61.187	114.509	51.38	FCC_15.209

Final 2: 2.8 GHz, 50.0 kHz, 17.9 GHz; IF:1MHz, 100.0 ms RMS, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.80425 GHz	34.82	54.00	19.18	V	197.334	265.573	41.94	FCC_15.209
5.05225 GHz	38.73	54.00	15.27	V	123.325	100	39.46	FCC_15.209
5.7365 GHz	38.32	54.00	15.68	V	146.521	369.436	40.70	FCC_15.209
7.319 GHz	38.63	54.00	15.37	V	327.278	151.905	42.38	FCC_15.209
10.0665 GHz	40.61	54.00	13.39	V	150.433	100	45.63	FCC_15.209
12.90325 GHz	43.88	54.00	10.12	V	216.474	150	49.22	FCC_15.209
14.6655 GHz	44.02	54.00	9.98	V	61.187	106.784	48.68	FCC_15.209
16.4825 GHz	45.80	54.00	8.20	V	0	250	50.58	FCC_15.209
17.098 GHz	46.20	54.00	7.80	V	307.261	141.785	50.99	FCC_15.209
17.867 GHz	46.39	54.00	7.61	V	61.187	100	51.38	FCC_15.209

1-18GHz Vertical, Plot and Data Table



Final 1: 2.8 GHz, 50.0 kHz, 17.9 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 0dB

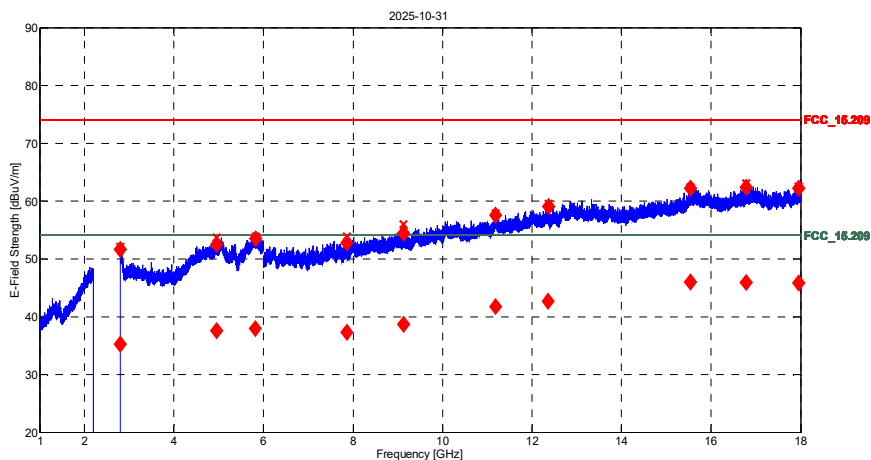
f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.80975 GHz	51.79	74.00	22.21	H	259.877	218.103	41.91	FCC_15.209
5.05375 GHz	53.53	74.00	20.47	H	259.877	397.636	39.46	FCC_15.209
5.782 GHz	54.50	74.00	19.50	H	360	180.289	40.86	FCC_15.209
5.98225 GHz	53.31	74.00	20.69	H	134.794	100	41.27	FCC_15.209
6.39575 GHz	52.72	74.00	21.28	H	251.2	100	42.18	FCC_15.209
10.08175 GHz	57.10	74.00	16.90	H	105.567	150	45.75	FCC_15.209
12.88125 GHz	61.24	74.00	12.76	H	218.089	365.828	49.12	FCC_15.209
15.526 GHz	62.33	74.00	11.67	H	360	300	51.01	FCC_15.209
16.93375 GHz	63.43	74.00	10.57	H	350.767	100.081	51.33	FCC_15.209
17.87025 GHz	63.58	74.00	10.42	H	10.967	189.623	51.40	FCC_15.209
7.981 GHz	54.37	74.00	19.63	H	85	200	42.67	FCC_15.209

Final 2: 2.8 GHz, 50.0 kHz, 17.9 GHz; IF:1MHz, 100.0 ms RMS, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.807 GHz	34.72	54.00	19.28	H	259.877	155.849	41.91	FCC_15.209
5.05325 GHz	38.85	54.00	15.15	H	259.877	373.22	39.46	FCC_15.209
5.778 GHz	38.85	54.00	15.15	H	360	164.681	40.86	FCC_15.209
5.98225 GHz	36.84	54.00	17.16	H	134.794	100.086	41.27	FCC_15.209
6.3945 GHz	38.06	54.00	15.94	H	251.2	141.304	42.18	FCC_15.209
10.0805 GHz	42.30	54.00	11.70	H	105.567	113.548	45.75	FCC_15.209
12.88 GHz	45.61	54.00	8.39	H	218.089	350	49.12	FCC_15.209
15.526 GHz	47.35	54.00	6.65	H	360	391.169	51.01	FCC_15.209
16.93375 GHz	48.10	54.00	5.90	H	350.767	129.371	51.33	FCC_15.209
17.87025 GHz	47.65	54.00	6.35	H	10.967	150	51.40	FCC_15.209
7.9825 GHz	39.16	54.00	14.84	H	85	200	42.67	FCC_15.209

1-18GHz Horizontal, Plot and Data Table

Channel 39



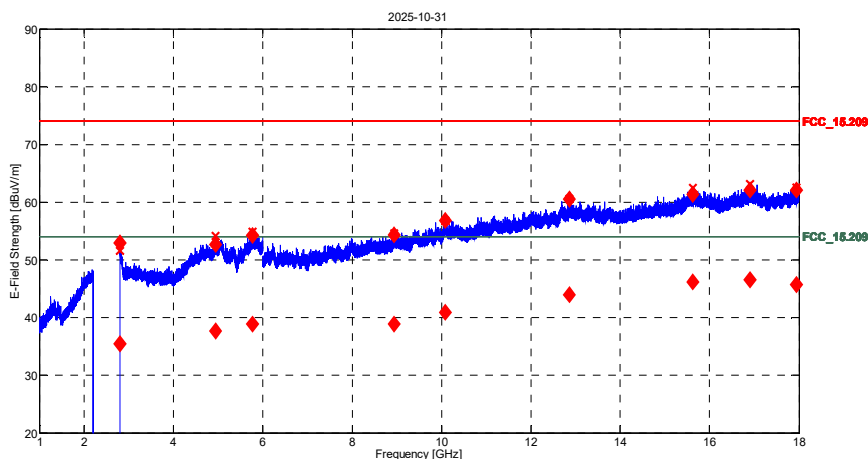
Final 1: 2.8 GHz, 50.0 kHz, 18.0 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.80225 GHz	51.63	74.00	22.37	V	103.579	315.446	-63.63	FCC 15.209
4.9575 GHz	52.41	74.00	21.59	V	360	102.57	39.23	FCC 15.209
5.8235 GHz	53.47	74.00	20.53	V	235.764	121.848	40.95	FCC 15.209
7.86175 GHz	52.69	74.00	21.31	V	30.333	135.643	42.67	FCC 15.209
9.12925 GHz	54.35	74.00	19.65	V	288.234	350.074	43.79	FCC 15.209
11.1845 GHz	57.56	74.00	16.44	V	255.283	200	46.35	FCC 15.209
12.366 GHz	59.01	74.00	14.99	V	360	233.985	47.43	FCC 15.209
15.54275 GHz	62.18	74.00	11.82	V	322.739	100	51.00	FCC 15.209
16.78075 GHz	62.34	74.00	11.66	V	173.767	150.078	51.37	FCC 15.209
17.96175 GHz	62.14	74.00	11.86	V	236.633	111.657	51.64	FCC 15.209

Final 2: 2.8 GHz, 50.0 kHz, 18.0 GHz; IF:1MHz, 100.0 ms RMS, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.8 GHz	35.19	54.00	18.81	V	103.579	300	-63.63	FCC 15.209
4.95825 GHz	37.56	54.00	16.44	V	360	132.761	39.23	FCC 15.209
5.8195 GHz	37.94	54.00	16.06	V	235.764	100	40.95	FCC 15.209
7.86175 GHz	37.27	54.00	16.73	V	30.333	123.528	42.67	FCC 15.209
9.1285 GHz	38.68	54.00	15.32	V	288.234	250	43.79	FCC 15.209
11.184 GHz	41.75	54.00	12.25	V	255.283	291.535	46.35	FCC 15.209
12.3645 GHz	42.62	54.00	11.38	V	360	150	47.43	FCC 15.209
15.54 GHz	45.94	54.00	8.06	V	322.739	105.013	51.00	FCC 15.209
16.7835 GHz	45.91	54.00	8.09	V	173.767	100	51.37	FCC 15.209
17.961 GHz	45.81	54.00	8.19	V	236.633	135.976	51.64	FCC 15.209

1-18GHz Vertical, Plot and Data Table



Final 1: 2.8 GHz, 50.0 kHz, 18.0 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.80375 GHz	52.89	74.00	21.11	H	217.764	130.613	41.96	FCC_15.209
4.93875 GHz	52.65	74.00	21.35	H	217.764	122.765	39.23	FCC_15.209
5.766 GHz	54.22	74.00	19.78	H	15.605	199.928	40.79	FCC_15.209
8.93225 GHz	54.29	74.00	19.71	H	93.272	124.143	43.64	FCC_15.209
10.08575 GHz	56.84	74.00	17.16	H	139.878	130.583	45.80	FCC_15.209
12.86525 GHz	60.50	74.00	13.50	H	0	147.733	48.91	FCC_15.209
15.62 GHz	61.36	74.00	12.64	H	181.711	183.285	50.89	FCC_15.209
16.907 GHz	62.08	74.00	11.92	H	132.961	117.714	51.35	FCC_15.209
17.949 GHz	62.08	74.00	11.92	H	139.878	117.965	51.62	FCC_15.209

Final 2: 2.8 GHz, 50.0 kHz, 18.0 GHz; IF:1MHz, 100.0 ms RMS, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.801 GHz	35.37	54.00	18.63	H	217.764	100	41.96	FCC_15.209
4.94075 GHz	37.64	54.00	16.36	H	217.764	108.279	39.23	FCC_15.209
5.766 GHz	38.86	54.00	15.14	H	15.605	200	40.79	FCC_15.209
8.935 GHz	38.84	54.00	15.16	H	93.272	127.204	43.64	FCC_15.209
10.08575 GHz	40.90	54.00	13.10	H	139.878	100	45.80	FCC_15.209
12.866 GHz	43.96	54.00	10.04	H	0	108.472	48.91	FCC_15.209
15.6215 GHz	46.12	54.00	7.88	H	181.711	150	50.89	FCC_15.209
16.90775 GHz	46.54	54.00	7.46	H	132.961	111.314	51.35	FCC_15.209
17.95175 GHz	45.72	54.00	8.28	H	139.878	115.674	51.62	FCC_15.209

1-18GHz Horizontal, Plot and Data Table



Test Report for Onset Computer Corporation Report No. EZ0729-2 Issue 1

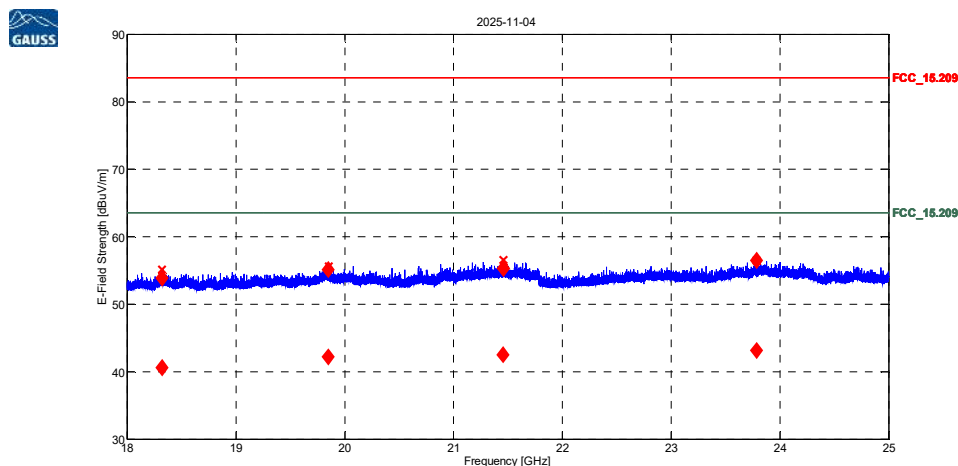


18-25GHz BLE 1Mbps GFSK

Traces:

Trace	Start	Step	Stop	RBW	Detector	Dwell time	Att.	Notes	Mkr.
Scan1	18.0 GHz	50.0 kHz	25.0 GHz	1MHz	MaxPeak	100.0 ms	20		✗
Final 1	-	-	-	1MHz	MaxPeak	100.0 ms	20	Final	♦
Final 2	-	-	-	1MHz	RMS	100.0 ms	20	Final	♦

Channel 0



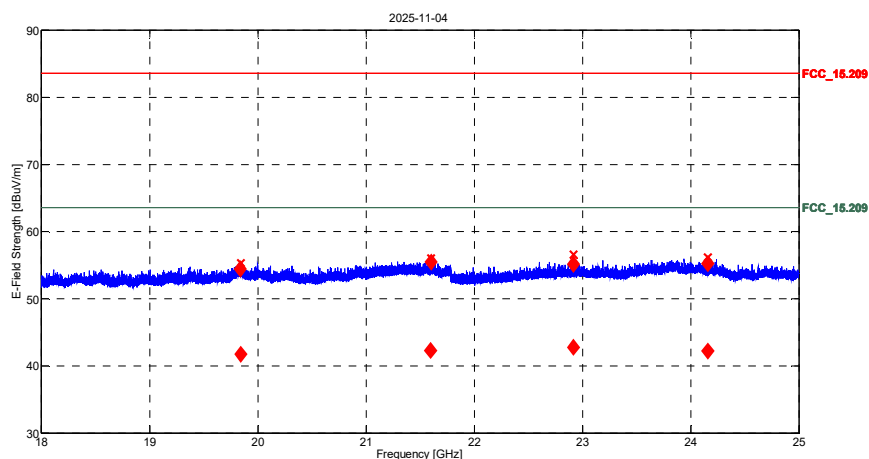
Final 1: 18.3 GHz, 50.0 kHz, 23.8 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
19.851 GHz	55.12	83.50	28.38	V	131.538	100.967	13.40	FCC 15.209
21.4605 GHz	55.28	83.50	28.22	V	324.062	124.718	13.62	FCC 15.209
23.78725 GHz	56.44	83.50	27.06	V	213.315	222.43	14.16	FCC 15.209
18.321 GHz	53.89	83.50	29.61	V	341.215	124.933	12.86	FCC 15.209

Final 2: 18.3 GHz, 50.0 kHz, 23.8 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
19.85175 GHz	42.21	63.50	21.29	V	131.538	125	13.40	FCC 15.209
21.457 GHz	42.51	63.50	20.99	V	324.062	100	13.62	FCC 15.209
23.7845 GHz	43.11	63.50	20.39	V	213.315	175	14.16	FCC 15.209
18.32375 GHz	40.57	63.50	22.93	V	341.215	100	12.86	FCC 15.209

18-25GHz Vertical, Plot and Data Table



Final 1: 19.8 GHz, 50.0 kHz, 24.2 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

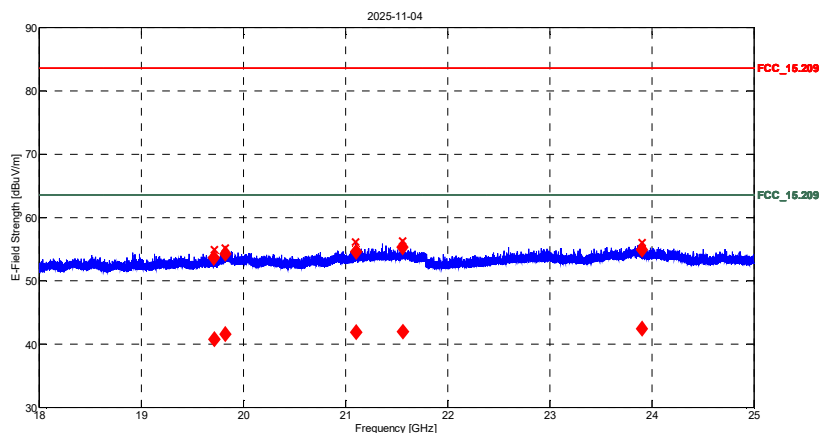
f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
19.84225 GHz	54.43	83.50	29.07	H	309.174	125	13.41	FCC_15.209
21.6025 GHz	55.42	83.50	28.08	H	360	121	13.49	FCC_15.209
22.92075 GHz	55.13	83.50	28.37	H	213.785	137.865	14.04	FCC_15.209
24.1605 GHz	55.18	83.50	28.32	H	115.392	100.169	14.13	FCC_15.209

Final 2: 19.8 GHz, 50.0 kHz, 24.2 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
19.84375 GHz	41.72	63.50	21.78	H	309.174	125	13.41	FCC_15.209
21.6005 GHz	42.27	63.50	21.23	H	360	100	13.49	FCC_15.209
22.92025 GHz	42.71	63.50	20.79	H	213.785	100	14.04	FCC_15.209
24.16175 GHz	42.15	63.50	21.35	H	115.392	115.538	14.13	FCC_15.209

18-25GHz Horizontal, Plot and Data Table

Channel 19



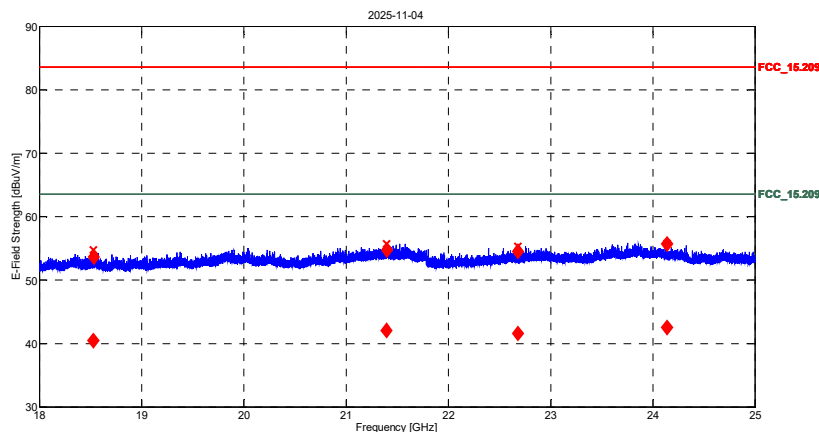
Final 1: 19.7 GHz, 50.0 kHz, 23.9 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
19.71425 GHz	53.59	83.50	29.91	V	67.333	100.1	13.18	FCC 15.209
19.8255 GHz	54.24	83.50	29.26	V	326	125	13.40	FCC 15.209
21.104 GHz	54.59	83.50	28.91	V	62.6	100.108	13.63	FCC 15.209
21.55975 GHz	55.25	83.50	28.25	V	98.1	125	13.50	FCC 15.209
23.90475 GHz	54.85	83.50	28.65	V	94.066	168.013	14.21	FCC 15.209

Final 2: 19.7 GHz, 50.0 kHz, 23.9 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
19.71675 GHz	40.77	63.50	22.73	V	67.333	117.266	13.18	FCC 15.209
19.82625 GHz	41.56	63.50	21.94	V	326	100	13.40	FCC 15.209
21.10525 GHz	41.84	63.50	21.66	V	62.6	125	13.63	FCC 15.209
21.5625 GHz	41.98	63.50	21.52	V	98.1	113.593	13.50	FCC 15.209
23.90325 GHz	42.39	63.50	21.11	V	94.066	125	14.21	FCC 15.209

18-25GHz Vertical, Plot and Data Table



Final 1: 18.5 GHz, 50.0 kHz, 24.1 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
18.534 GHz	53.63	83.50	29.87	H	352.646	100.085	12.96	FCC 15.209
21.39975 GHz	54.69	83.50	28.81	H	9.138	125	13.61	FCC 15.209
22.68125 GHz	54.51	83.50	28.99	H	0	100	13.92	FCC 15.209
24.139 GHz	55.67	83.50	27.83	H	333.995	114.067	14.15	FCC 15.209

Final 2: 18.5 GHz, 50.0 kHz, 24.1 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
18.532 GHz	40.47	63.50	23.03	H	352.646	125	12.96	FCC 15.209
21.39775 GHz	42.00	63.50	21.50	H	9.138	100	13.61	FCC 15.209
22.68125 GHz	41.51	63.50	21.99	H	0	116.8	13.92	FCC 15.209
24.139 GHz	42.47	63.50	21.03	H	333.995	114.067	14.15	FCC 15.209

18-25GHz Horizontal, Plot and Data Table

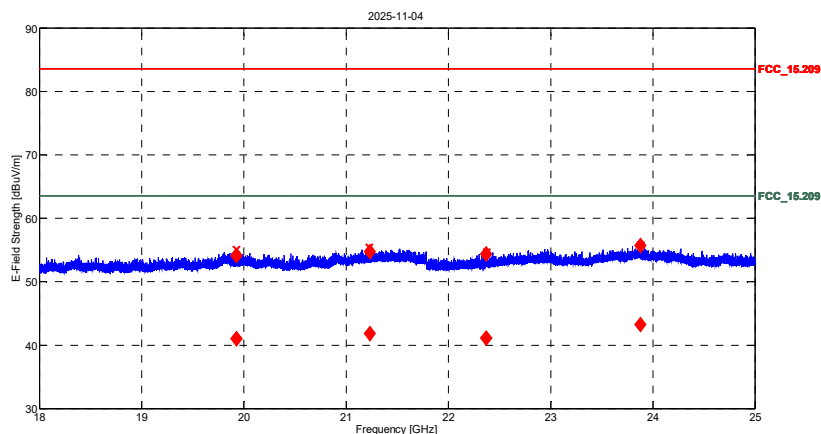


**BUREAU
VERITAS**

Test Report for Onset Computer Corporation Report No. EZ0729-2 Issue 1



Channel 39



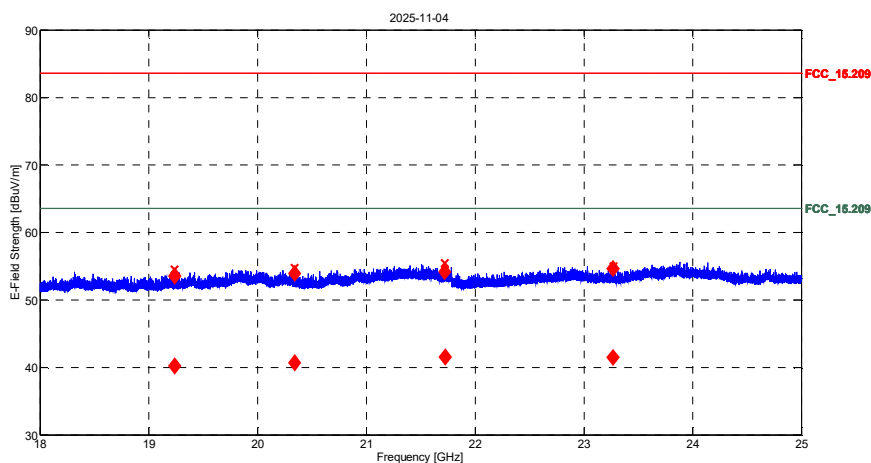
Final 1: 19.9 GHz, 50.0 kHz, 23.9 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
19.9285 GHz	54.06	83.50	29.44	V	359.777	100.033	13.43	FCC_15.209
21.232 GHz	54.76	83.50	28.74	V	50.651	107	13.71	FCC_15.209
22.374 GHz	54.33	83.50	29.17	V	107.569	102.877	13.36	FCC_15.209
23.88125 GHz	55.68	83.50	27.82	V	177.34	124.167	14.29	FCC_15.209

Final 2: 19.9 GHz, 50.0 kHz, 23.9 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
19.929 GHz	41.02	63.50	22.48	V	359.777	116.4	13.43	FCC_15.209
21.23275 GHz	41.76	63.50	21.74	V	50.651	100	13.71	FCC_15.209
22.3735 GHz	41.09	63.50	22.41	V	107.569	125	13.36	FCC_15.209
23.8815 GHz	43.23	63.50	20.27	V	177.34	100	14.29	FCC_15.209

18-25GHz Vertical, Plot and Data Table



Final 1: 19.2 GHz, 50.0 kHz, 23.3 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
19.239 GHz	53.56	83.50	29.94	H	225.791	125	12.42	FCC_15.209
20.34225 GHz	53.90	83.50	29.60	H	290.219	100	13.04	FCC_15.209
21.72325 GHz	54.16	83.50	29.34	H	168.43	100	13.24	FCC_15.209
23.27075 GHz	54.66	83.50	28.84	H	360	149.813	13.53	FCC_15.209

Final 2: 19.2 GHz, 50.0 kHz, 23.3 GHz; IF:1MHz, 100.0 ms RMS, Att 20dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
19.23825 GHz	40.21	63.50	23.29	H	225.791	125	12.42	FCC_15.209
20.3435 GHz	40.67	63.50	22.83	H	290.219	100	13.04	FCC_15.209
21.72525 GHz	41.52	63.50	21.98	H	168.43	125	13.24	FCC_15.209
23.27 GHz	41.43	63.50	22.07	H	360	100	13.53	FCC_15.209

18-25GHz Horizontal, Plot and Data Table

Bureau Veritas Consumer Product
Services Inc.

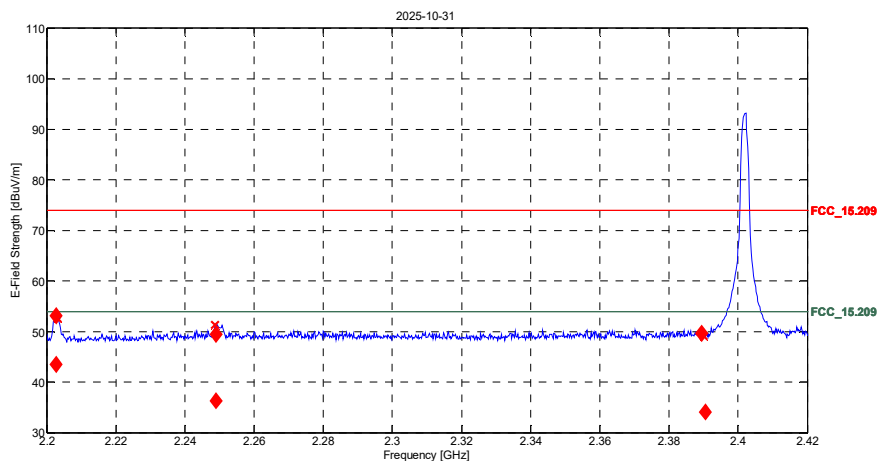
One Distribution Center Circle, #1
Littleton, MA

Tel.: (978) 486-8880
Fax: (978) 486-8828

Radiated Band-edge:

BLE 1Mbps GFSK

Channel 37



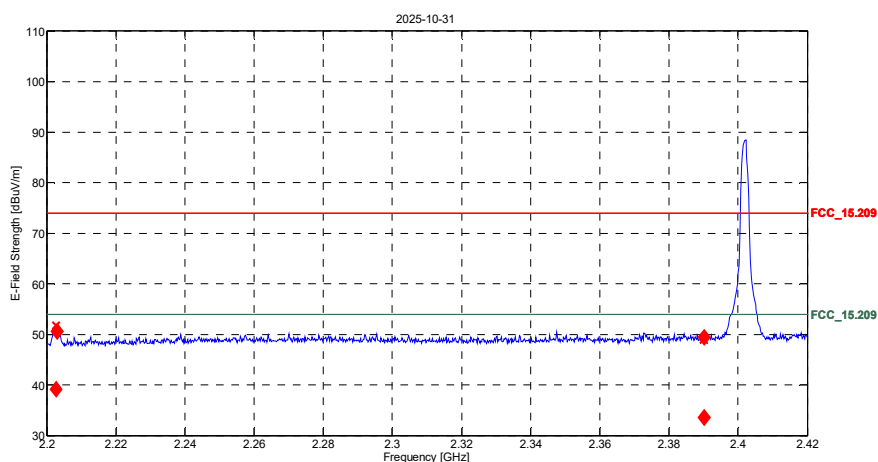
Final 1: 2.2 GHz, 50.0 kHz, 2.4 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.20275 GHz	53.13	74.00	20.87	V	101.522	170.203	34.80	FCC_15.209
2.249 GHz	49.46	74.00	24.54	V	216.892	176.333	35.01	FCC_15.209
2.3895 GHz	49.59	74.00	24.41	V	201.706	113.7	35.18	FCC_15.209

Final 2: 2.2 GHz, 50.0 kHz, 2.4 GHz; IF:1MHz, 100.0 ms RMS, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.20275 GHz	43.47	54.00	10.53	V	101.522	173.805	34.80	FCC_15.209
2.249 GHz	36.26	54.00	17.74	V	216.892	143.578	35.01	FCC_15.209
2.3905 GHz	34.07	54.00	19.93	V	201.706	100.8	35.18	FCC_15.209

Low-Ch Vertical, Plot and Data Table



Final 1: 2.2 GHz, 50.0 kHz, 2.4 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 0dB

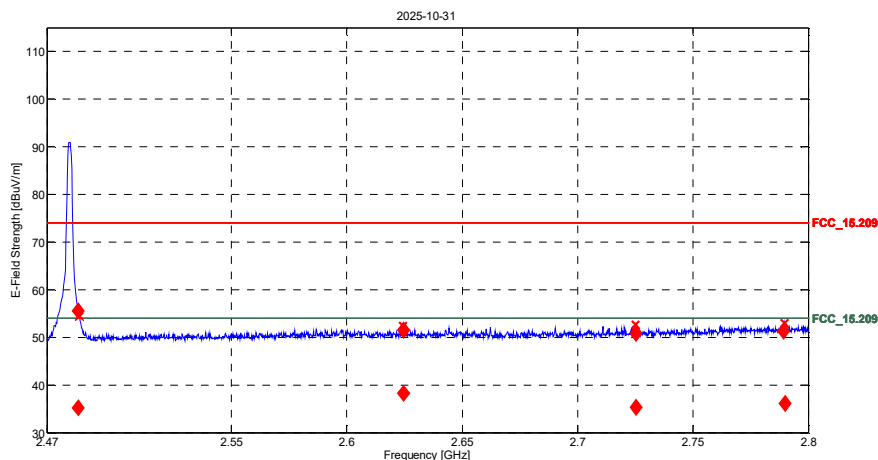
f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.203 GHz	50.53	74.00	23.47	H	278.717	200.013	34.80	FCC_15.209
2.39025 GHz	49.46	74.00	24.54	H	51.593	363.446	35.18	FCC_15.209

Final 2: 2.2 GHz, 50.0 kHz, 2.4 GHz; IF:1MHz, 100.0 ms RMS, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.20275 GHz	39.14	54.00	14.86	H	278.717	242.67	34.80	FCC_15.209
2.39025 GHz	33.55	54.00	20.45	H	51.593	387.076	35.18	FCC_15.209

Low-Ch Horizontal, Plot and Data Table

Channel 39



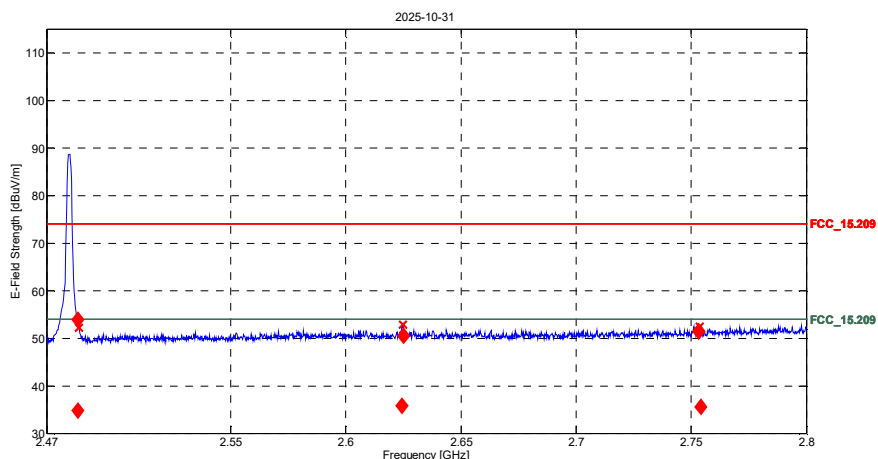
Final 1: 2.5 GHz, 50.0 kHz, 2.8 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.4835 GHz	55.59	74.00	18.41	V	233.538	100.1	35.59	FCC 15.209
2.6245 GHz	51.51	74.00	22.49	V	203.621	158.541	36.17	FCC 15.209
2.72525 GHz	50.84	74.00	23.16	V	90.706	190.616	36.36	FCC 15.209
2.78925 GHz	51.28	74.00	22.72	V	212.723	249.987	36.39	FCC 15.209

Final 2: 2.5 GHz, 50.0 kHz, 2.8 GHz; IF:1MHz, 100.0 ms RMS, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.4835 GHz	35.20	54.00	18.80	V	233.538	99.925	35.59	FCC 15.209
2.6245 GHz	38.21	54.00	15.79	V	203.621	154.857	36.17	FCC 15.209
2.72525 GHz	35.33	54.00	18.67	V	90.706	154.803	36.36	FCC 15.209
2.79 GHz	36.07	54.00	17.93	V	212.723	150	36.39	FCC 15.209

High-Ch Vertical, Plot and Data Table



Final 1: 2.5 GHz, 50.0 kHz, 2.8 GHz; IF:1MHz, 100.0 ms MaxPeak, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.4835 GHz	53.92	74.00	20.08	H	303.723	150	35.59	FCC 15.209
2.625 GHz	50.52	74.00	23.48	H	317.299	340.297	36.18	FCC 15.209
2.75325 GHz	51.42	74.00	22.58	H	136.032	232.333	36.34	FCC 15.209

Final 2: 2.5 GHz, 50.0 kHz, 2.8 GHz; IF:1MHz, 100.0 ms RMS, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Angle [°]	Height [cm]	Trans	Name
2.4835 GHz	34.73	54.00	19.27	H	303.723	150	35.59	FCC 15.209
2.62425 GHz	35.76	54.00	18.24	H	317.299	327.378	36.18	FCC 15.209
2.75425 GHz	35.54	54.00	18.46	H	136.032	150.233	36.34	FCC 15.209

High-Ch Horizontal, Plot and Data Table

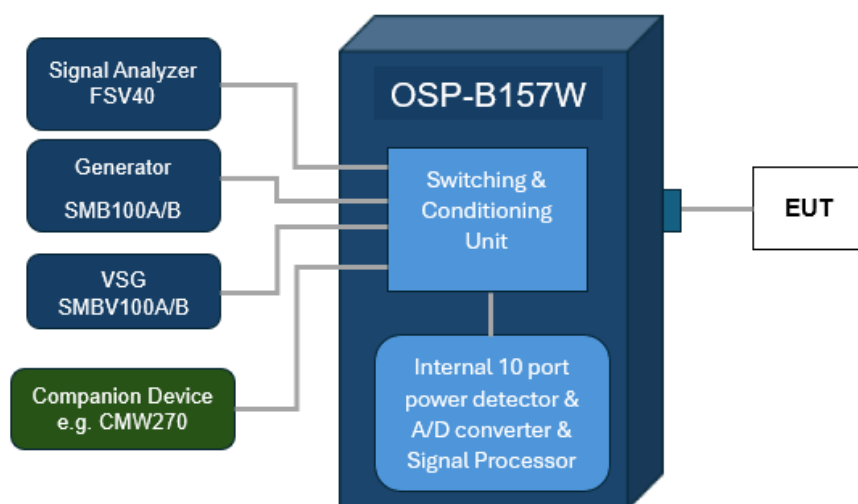
4.2 6dB CHANNEL BANDWIDTH & 99% OBW

4.2.1 LIMITS

The minimum 6 dB bandwidth shall be 500 kHz.

4.2.2 TEST SETUP

SCHEMATIC RF CABLING



4.2.3 TEST EQUIPMENT USED

Rev. 11/7/2025									
Spectrum Analyzers / Receivers /Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on	
FSV40 Spectrum Analyzer	10Hz-40GHz	FSV40	ROHDE & SCHWARZ	101551	2200	I	10/14/2026	10/14/2025	
Instrument FW 3.4									
WMS Test Tool SW v11.50.04									
Signal Generators/Comparison Noise Emitter	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on	
OSP-B157W8		OSP-B157W8	ROHDE & SCHWARZ	100955	2558	I	2/14/2026	2/14/2024	
Instrument FW 1.27.0.0									
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on	
Asset #2594	9KHz-40GHz		Carlisle			II	2/19/2026	2/19/2025	
Meteorological Meters/Chambers		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on	
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	I	12/15/2025	12/15/2022	
Asset #2654		1235C97	Control Company	200477432	2654	I	8/22/2028	8/22/2025	
Temp/Humidity Chamber #18		EPX-2H	Espec	137664	1645	I	2/7/2026	2/7/2025	
RMS Voltmeters/Current Clamp		MN	Mnfr	SN	Asset	Cat	Calibration Due	Calibrated on	
True-RMS Multimeter		79III	Fluke	71700298	769	I	1/22/2026	1/22/2025	
All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.									

4.2.4 TEST PROCEDURES

6dB CHANNEL BANDWIDTH (In accordance with ANSI C63.10-2020 Section 11.8.1)

- a. Set RBW = Shall be in the range of 1% to 5% of the OBW but not less than 100kHz.
- b. Set the video bandwidth (VBW) ≥ 3 RBW.
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Sweep = No faster than coupled (auto) time.
- f. Allow the trace to stabilize.
- g. Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the right frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6dB down amplitude”. If the marker is below this “-6dB down amplitude” value, then it shall be as close as possible to this value.

99% OBW (In accordance with ANSI C63.10-2020 Section 6.9.3)

- a. The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b. The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- c. Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in ANSI C63.10-2020 4.1.6.2
- d. Step a) through step c) might require iteration to adjust within the specified range.
- e. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f. Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

4.2.5 DEVIATIONS

No deviations from the standard.

4.2.6 EUT OPERATING CONDITIONS

EUT was operated according to manufacturer's specifications.

4.2.7 TEST RESULTS

BLE (GFSK)

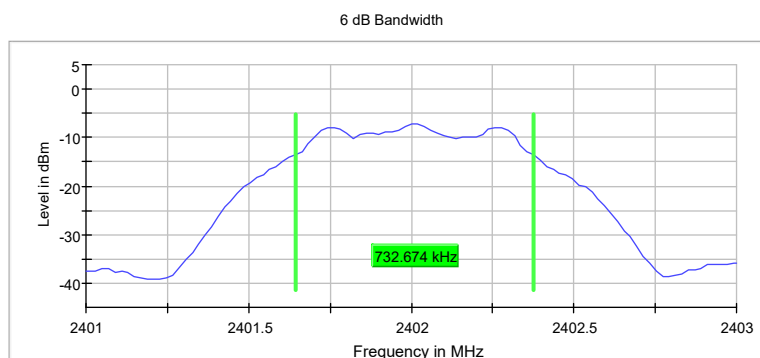
1Mbps:

Test date: 11-05-2025

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	99% OBW (MHz)	PASS / FAIL
37	2402	0.732674	1.037594	Pass
17	2440	0.732674	1.052631	Pass
39	2480	0.732674	1.052631	Pass

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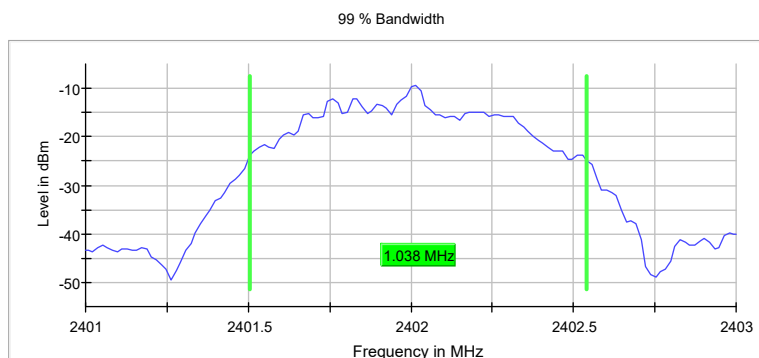
6dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 40
SweepTime	18.938 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.15 dB	0.50 dB

99% OBW



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	30.000 kHz	>= 30.000 kHz
VBW	100.000 kHz	>= 90.000 kHz
SweepPoints	133	~ 133
SweepTime	63.123 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	6 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.17 dB	0.30 dB



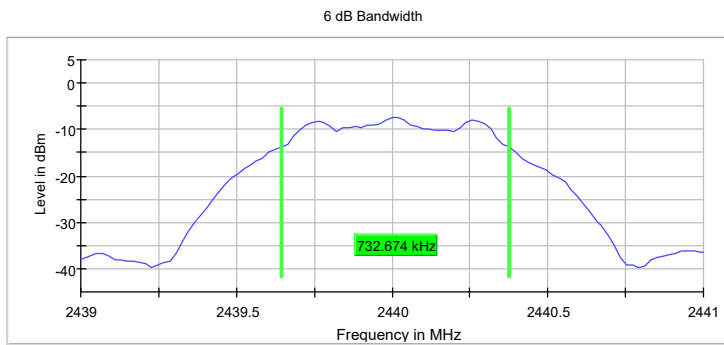
BUREAU
VERITAS

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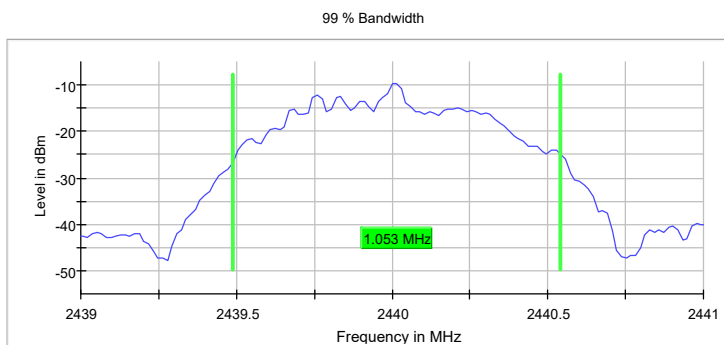
6dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44100 GHz	2.44100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 40
Sweptime	18.938 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.34 dB	0.50 dB

99% OBW

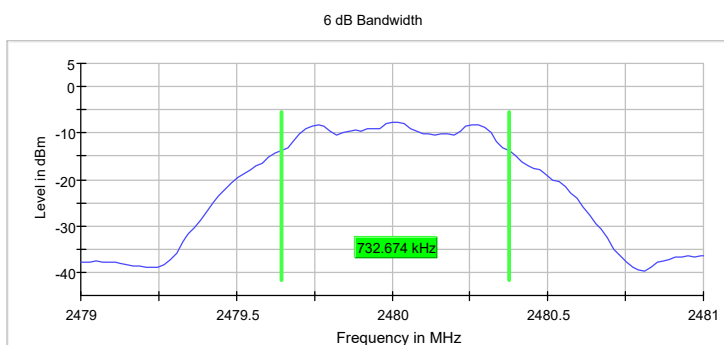


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44100 GHz	2.44100 GHz
Span	2.000 MHz	2.000 MHz
RBW	30.000 kHz	>= 30.000 kHz
VBW	100.000 kHz	>= 90.000 kHz
SweepPoints	133	~ 133
Sweptime	63.123 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	8 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.01 dB	0.30 dB

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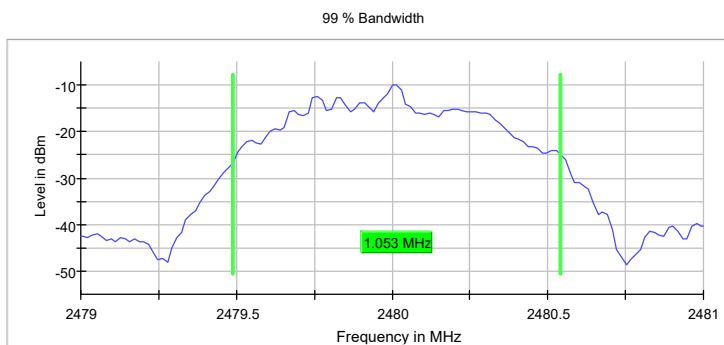
6dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 40
Sweptime	18.938 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	8 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.07 dB	0.50 dB

99% OBW



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	30.000 kHz	>= 30.000 kHz
VBW	100.000 kHz	>= 90.000 kHz
SweepPoints	133	~ 133
Sweptime	63.123 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	10 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.13 dB	0.30 dB



4.3 CONDUCTED OUTPUT POWER

4.3.1 LIMITS

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm)

4.3.2 TEST SETUP

Refer to section 4.2.2.

4.3.3 TEST EQUIPMENT USED

Refer to section 4.2.3.

4.3.4 TEST PROCEDURES

Average conducted output power was measured in accordance with ANSI C63.10 - 2020 Section 11.9.2.3.2 (Method AVGPM-G).

4.3.5 DEVIATIONS

No deviations from the standard.

4.3.6 EUT OPERATING CONDITIONS

EUT was operated according to manufacturer's specifications

4.3.7 TEST RESULTS

BLE (GFSK)

1Mbps:

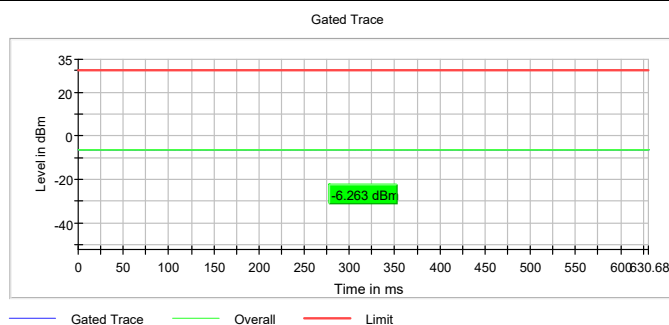
Test date: 11-05-2025

CHANNEL	CHANNEL FREQUENCY (MHz)	RMS POWER (dBm)	RMS POWER (mW)	LIMIT (W)	PASS/FAIL
37	2402	-6.3	0.23	1	PASS
17	2440	-6.5	0.22	1	PASS
39	2480	-6.9	0.20	1	PASS

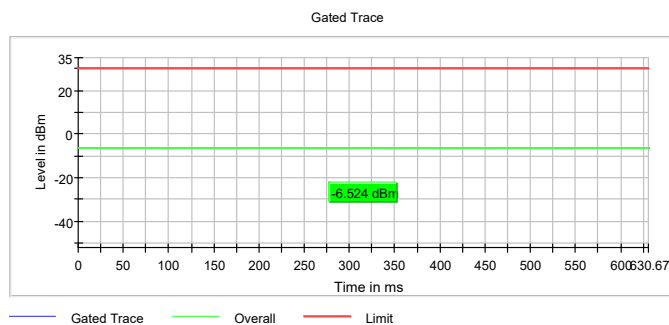
OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

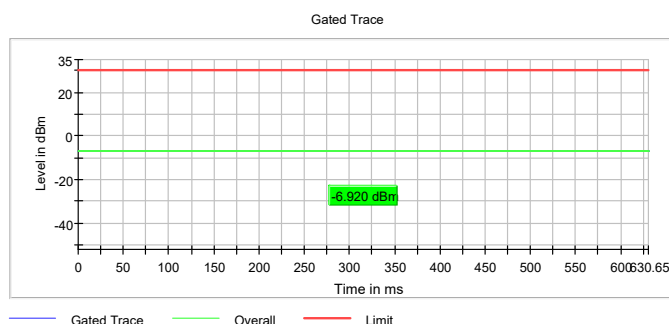
CH37



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4.5 POWER SPECTRAL DENSITY

4.4.1 LIMITS

The limit for Power Spectral Density is 8dBm/3KHz.

4.4.2 TEST SETUP

Refer to section 4.2.2.

4.4.3 TEST EQUIPMENT USED

Refer to section 4.2.3.

TEST PROCEDURES

In accordance with ANSI C63.10-2020 Section 11.10.2 (Method PKPSD (Peak PSD)).

1. Set the span > 1.5 times the DTS bandwidth
2. Set the RBW = 3 kHz, VBW $\geq 3 \times$ RBW, Detector = peak.
3. Sweep time = No faster than the coupled (auto) time.
4. Trace mode = max hold, allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum amplitude level.

4.4.4 DEVIATIONS

No deviations from the standard.

4.4.5 EUT OPERATING CONDITIONS

EUT was operated according to manufacturer's specifications.



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4.4.6 TEST RESULTS

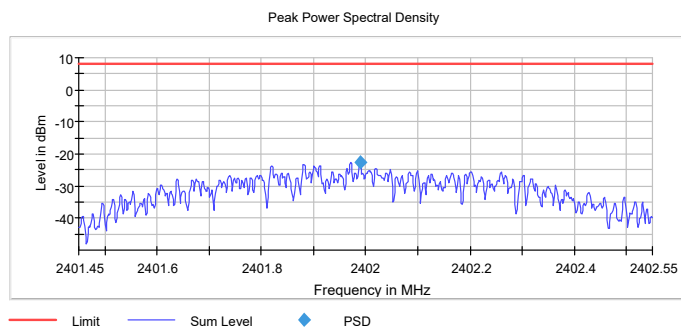
BLE (GFSK)

1Mbps:

Test date: 11-05-2025

Channel	FREQ. (MHz)	PSD (dBm)	Limit (dBm)	PASS /FAIL
37	2402	-22.438	8	PASS
17	2440	-22.654	8	PASS
39	2480	-22.678	8	PASS

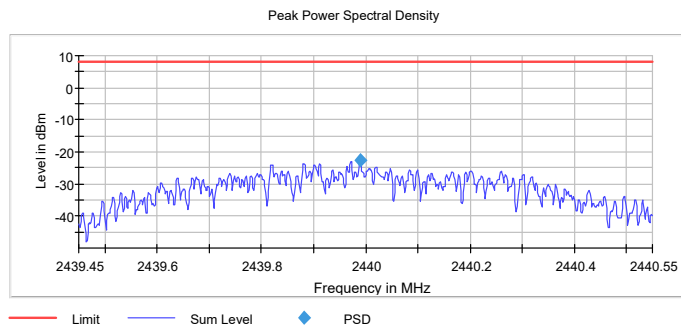
CH37



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40145 GHz	2.40145 GHz
Stop Frequency	2.40255 GHz	2.40255 GHz
Span	1.099 MHz	1.099 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	733	~ 733
SweepTime	12.300 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	3 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.16 dB	0.50 dB

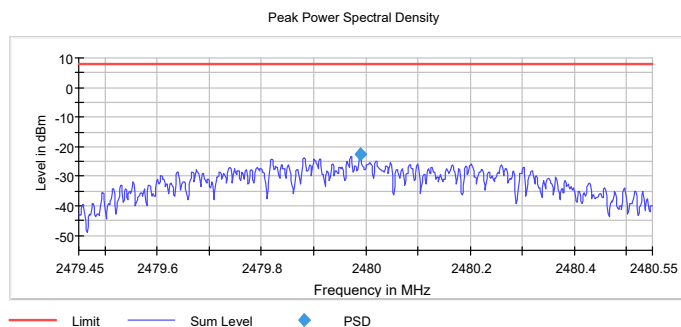
CH17



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43945 GHz	2.43945 GHz
Stop Frequency	2.44055 GHz	2.44055 GHz
Span	1.099 MHz	1.099 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	733	~ 733
SweepTime	12.300 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	3 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.37 dB	0.50 dB

CH39



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47945 GHz	2.47945 GHz
Stop Frequency	2.48055 GHz	2.48055 GHz
Span	1.099 MHz	1.099 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	733	~ 733
SweepTime	12.300 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	3 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.20 dB	0.50 dB



4.6 CONDUCTED SPURIOUS EMISSIONS AND BAND-EDGES

4.5.1 LIMITS

30dB below the highest emission level in the operating band (in 100kHz RBW).

4.5.2 TEST SETUP

Refer to section 4.2.2.

4.5.3 TEST EQUIPMENT USED

Refer to section 4.2.3.

4.5.4 TEST PROCEDURES

In accordance with ANSI C63.10-2020 Section 11.11.

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep time = No faster than coupled (auto) time.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.



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MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep time = No faster than coupled (auto) time.

4.5.5 DEVIATIONS

No deviations from the standard.

4.5.6 EUT OPERATING CONDITIONS

EUT was operated according to manufacturer's specifications.

4.5.7 TEST RESULTS

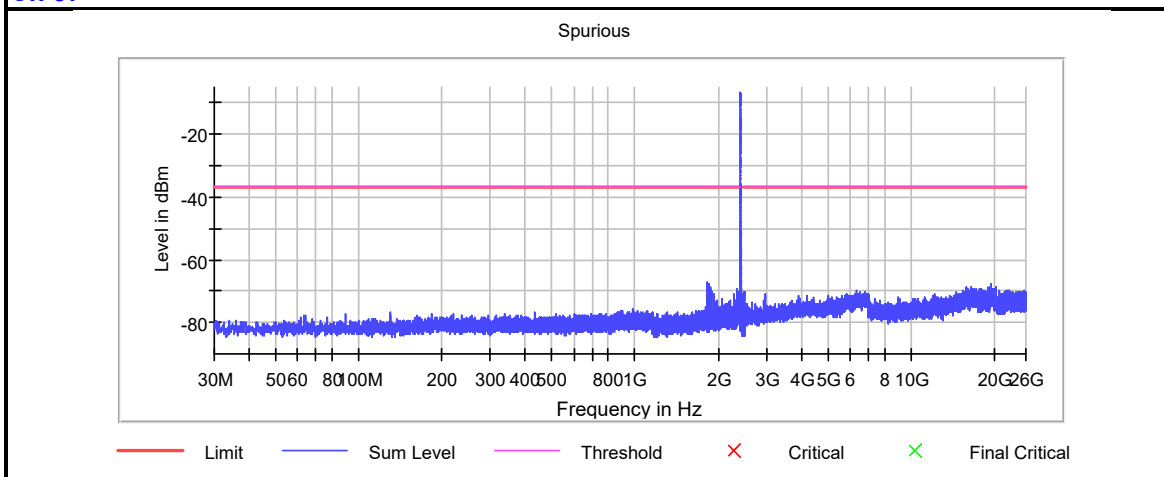
Conducted Spurious Emissions:

BLE (GFSK)

1Mbps

Test date: 11-05-2025

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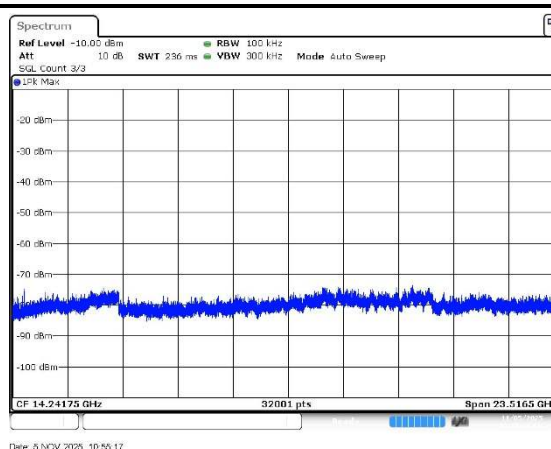
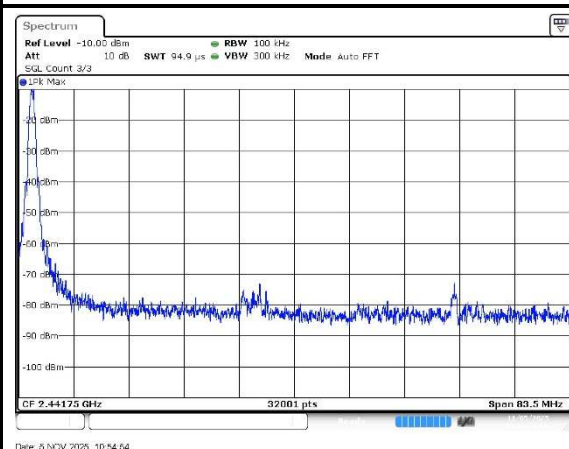
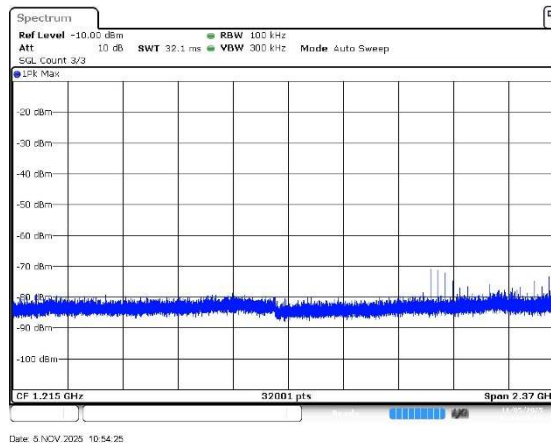


Inband Peak

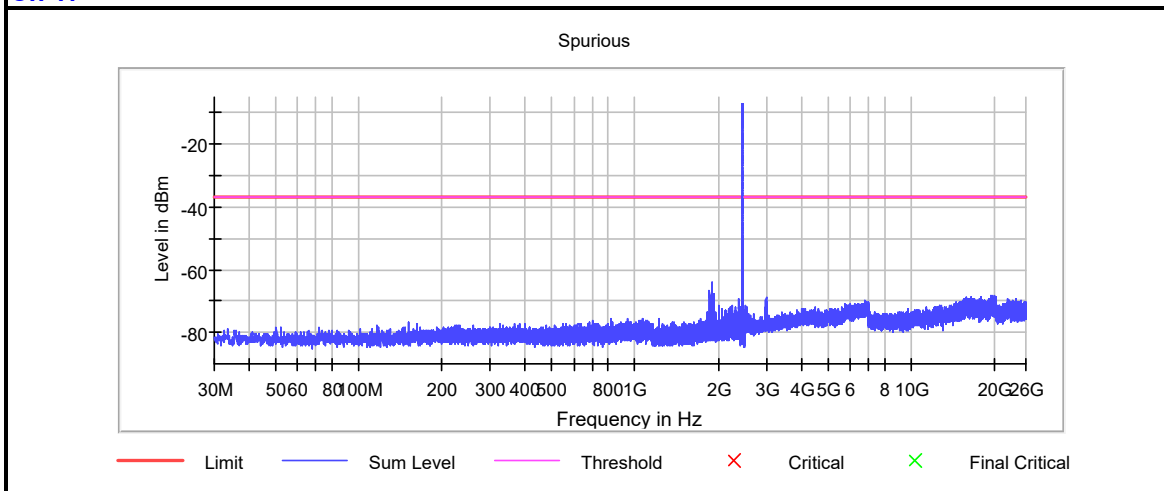
Frequency (MHz)	Level (dBm)
2402.020898	-6.7

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2399.962970	-54.6	17.9	-36.7
2399.888910	-55.5	18.8	-36.7
2399.814850	-55.9	19.2	-36.7
2399.518609	-55.9	19.2	-36.7
2399.592669	-56.2	19.5	-36.7
2399.444549	-56.7	20.0	-36.7
2399.074248	-57.2	20.5	-36.7
2399.148308	-57.4	20.7	-36.7
2399.666729	-57.6	20.9	-36.7
2399.000187	-59.1	22.4	-36.7
2399.740789	-59.5	22.8	-36.7
2399.370488	-59.7	23.0	-36.7
2399.222368	-60.4	23.7	-36.7
2399.296428	-62.3	25.6	-36.7
2397.296803	-63.4	26.8	-36.7



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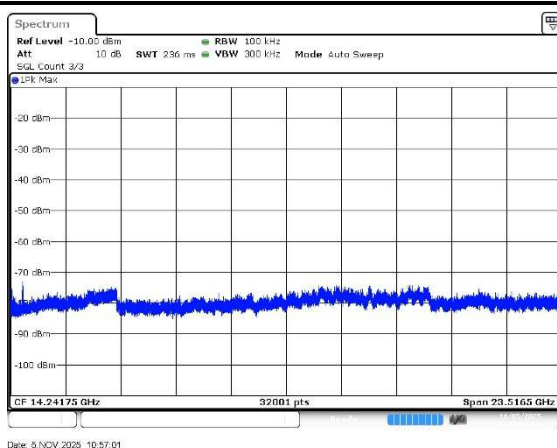
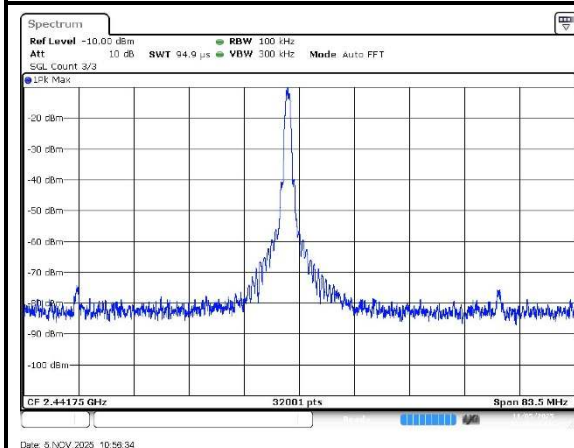
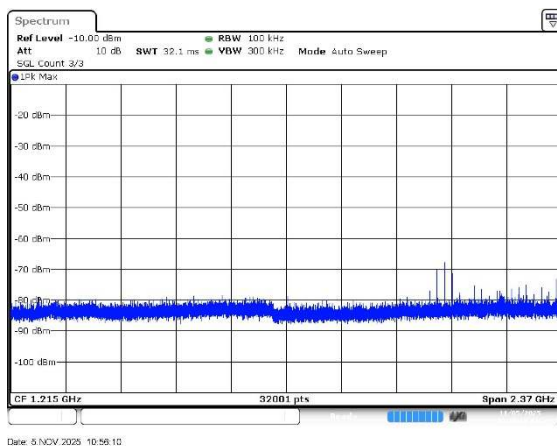


Inband Peak

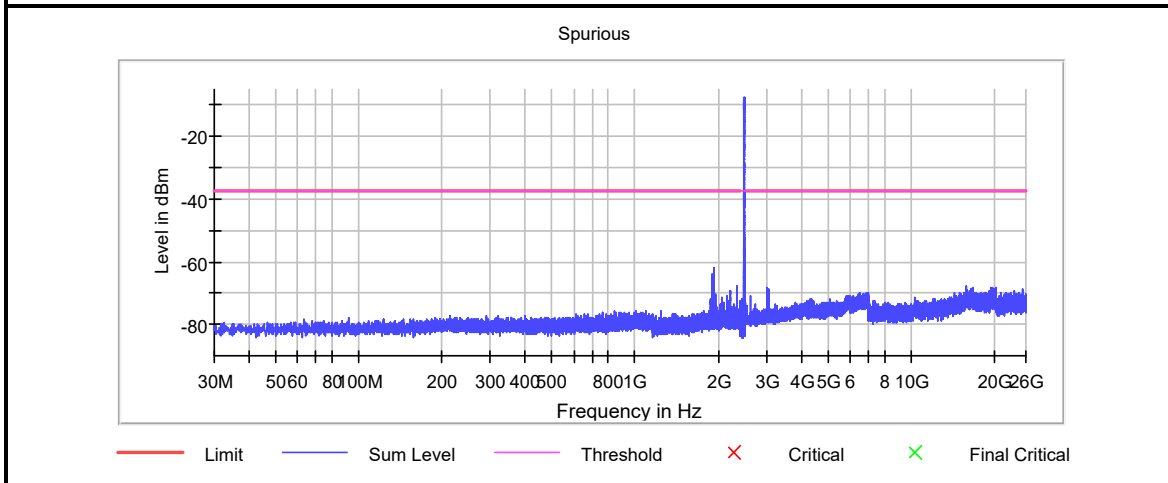
Frequency (MHz)	Level (dBm)
2440.009601	-6.9

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
1895.983407	-64.2	27.3	-36.9
1895.909347	-65.8	28.8	-36.9
1896.205587	-66.1	29.2	-36.9
1895.835286	-66.5	29.6	-36.9
1896.279648	-66.5	29.6	-36.9
1864.063467	-66.6	29.7	-36.9
1896.057467	-66.7	29.7	-36.9
1863.989407	-67.0	30.1	-36.9
1895.761226	-67.1	30.2	-36.9
1896.131527	-67.4	30.4	-36.9
1863.767226	-67.6	30.7	-36.9
1928.273648	-67.8	30.9	-36.9
1863.693166	-68.0	31.1	-36.9
1864.211587	-68.1	31.1	-36.9
1927.977407	-68.2	31.2	-36.9



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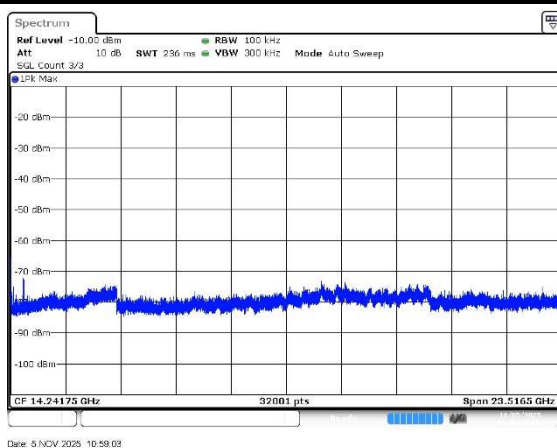
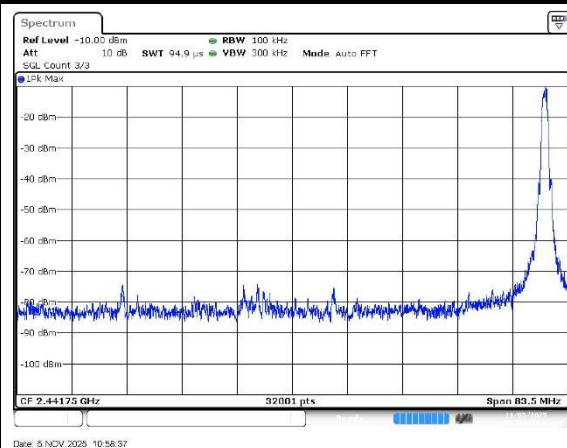
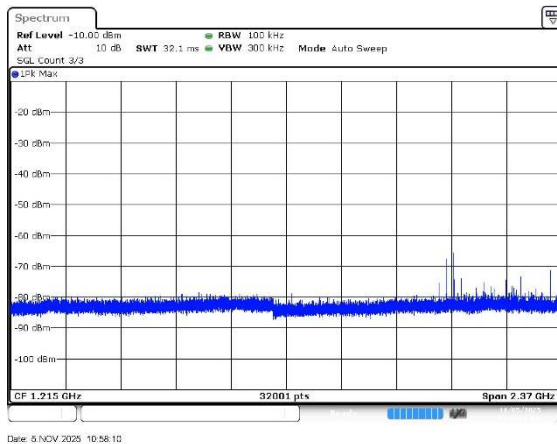


Inband Peak

Frequency (MHz)	Level (dBm)
2480.007461	-7.4

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2483.867434	-61.8	24.4	-37.4
1936.049967	-62.0	24.6	-37.4
1935.975907	-62.5	25.1	-37.4
1935.753726	-63.2	25.7	-37.4
1935.827787	-63.2	25.7	-37.4
1935.901847	-63.6	26.2	-37.4
1936.124027	-63.9	26.5	-37.4
1936.272148	-64.0	26.5	-37.4
1904.055967	-64.0	26.5	-37.4
1936.346208	-64.3	26.8	-37.4
1903.981907	-64.4	26.9	-37.4
1903.907847	-64.6	27.2	-37.4
1904.278148	-64.8	27.4	-37.4
1936.198088	-65.1	27.7	-37.4
1903.833786	-65.2	27.7	-37.4

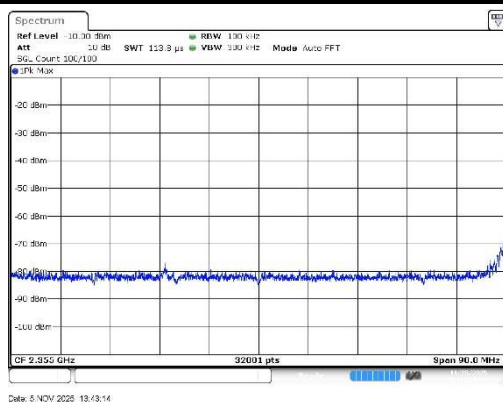
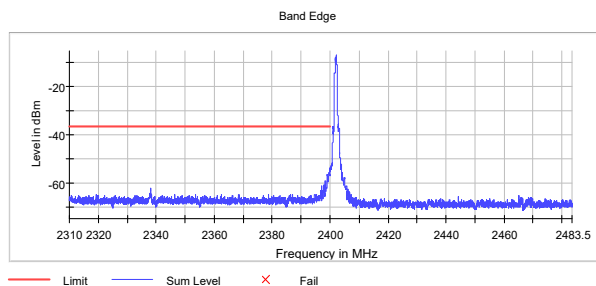


Conducted Band Edges

1Mbps

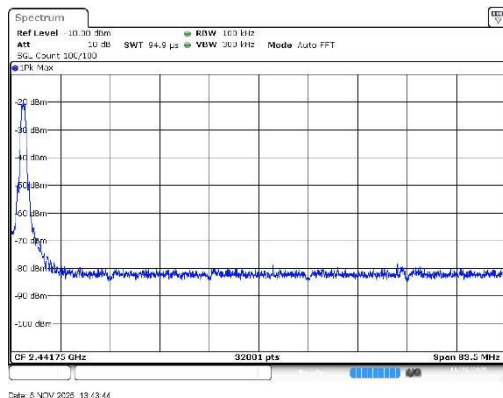
Test date: 11-05-2025

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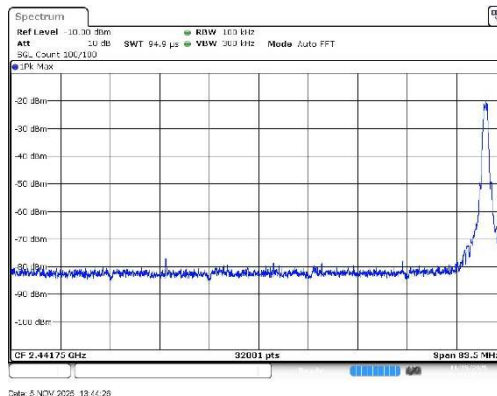
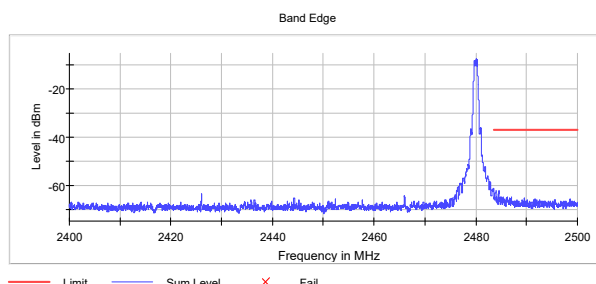


Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.998594	-54.1	17.5	-36.6	PASS
2399.995781	-54.2	17.6	-36.6	PASS
2399.992969	-54.3	17.7	-36.6	PASS
2399.990157	-54.4	17.8	-36.6	PASS
2399.987344	-54.5	17.9	-36.6	PASS
2399.984532	-54.7	18.1	-36.6	PASS
2399.981719	-54.8	18.2	-36.6	PASS
2399.978907	-54.9	18.3	-36.6	PASS
2399.976094	-55.0	18.4	-36.6	PASS
2399.973282	-55.2	18.6	-36.6	PASS
2399.970470	-55.3	18.7	-36.6	PASS
2399.967657	-55.4	18.8	-36.6	PASS
2399.964845	-55.5	18.9	-36.6	PASS
2399.9677979	-55.6	19.0	-36.6	PASS
2399.675166	-55.6	19.0	-36.6	PASS

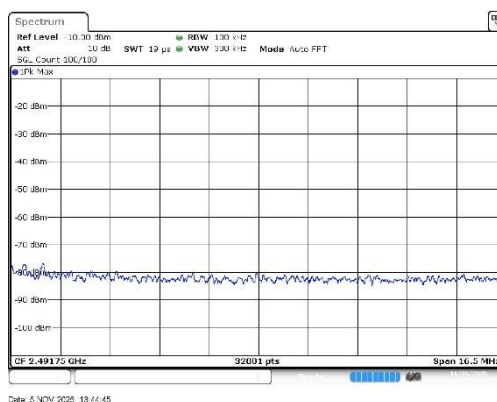


Ch 39



Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2484.550553	-62.2	25.1	-37.1	PASS
2484.550037	-62.2	25.1	-37.1	PASS
2484.551069	-62.2	25.1	-37.1	PASS
2484.549522	-62.2	25.1	-37.1	PASS
2484.551584	-62.2	25.1	-37.1	PASS
2484.549006	-62.2	25.1	-37.1	PASS
2484.552100	-62.2	25.1	-37.1	PASS
2484.548491	-62.2	25.1	-37.1	PASS
2484.552616	-62.2	25.1	-37.1	PASS
2484.547975	-62.2	25.1	-37.1	PASS
2484.553131	-62.2	25.1	-37.1	PASS
2484.547459	-62.2	25.1	-37.1	PASS
2484.553647	-62.2	25.1	-37.1	PASS
2484.546944	-62.2	25.1	-37.1	PASS
2484.554162	-62.2	25.1	-37.1	PASS





5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the Test Setup Photos exhibit.



6 APPENDIX A – MODIFICATIONS

No modifications were made to the EUT during testing.

---END OF REPORT---