TEST REPORT On behalf of

TRISPORT AG

Product Name:	HOI CROSS	HOI RIDE
Model No .	CT1061-400US,	HT1057-400US,
Model No.:	CT1061-900US	HT1057-900US

FCC ID: 2BB2MCT1061-400US

Prepared For: TRISPORT AG Boesch 67 CH-6331 Huenenberg

Prepared By: Audix Technology (Shanghai) Co., Ltd. 3F, Building 34, No. 680 Guiping Rd., Caohejing, Hi-Tech Park, Shanghai 200233, China

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Report No.:ACI-F24038Date of Test:2024.01.23-02.04Date of Report:2024.03.06

The statement is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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TEST REPORT

Applicant	:	TRISPORT AG		
EUT Description	:	HOI CROSS, HOI RID	Е	
		(A) Model No.	:	Refer to Sec.2.1
		(B) Power Supply	:	DC 3V
		(C) Test Voltage	:	DC 3V (From AAA*2)

Test Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C AND ANSI C63.10-2013

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report also shows that the EUT (M/N: Refer to Sec2.1), which was tested is technically compliance with the FCC limits.

This report applies to above tested Sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

Date of Test :	2024.01.23-02.04	Date of Report :	2024.03.06
Producer :	JAREY LU- Deputy Assistant Man	ager	
Review :	Luy W		
	LVY LV / Deputy Assistant Manager		
AUDIX For a	nd on behalf of		
Audix Technology (Shar	nghai) Co., Ltd.		
Signatory : Authorized Signature(s)	KAMP CHEN / Manager		
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1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The result is determined according to the decision rules of customer selection in the ASC-403 application service form.

1. According to IEC GUIDE 115 Procedure 2 and ILAC-G8, the uncertainties value is not used in determining the PASS/FAIL results.

2. If the required specification or standard already contains the decision rules, it will be carried out in accordance with the regulations or standard documents or the requirements of the competent units. If the required specification or standard does not contain a decision rule, the same paragraph 1.

3. If your company has a required decision rule, it will be implemented in accordance with the requirements and ISO/IEC Guide 98-4 specifications.

The EUT have been tested according to the applicable standards as referenced below:

Description / Test Item Test Standard		Results	Meets Limit			
	EMISSION					
	FCC RULES AND REGULATIONS PART 15					
Conducted Emission	SUBPART C	N/A	15.207			
	AND ANSI C63.10:2013					
	FCC RULES AND REGULATIONS PART 15		15.200(a)			
Radiated Emission	SUBPART C	Pass	15.209(a)			
	AND ANSI C63.10:2013		15.205(a)(c)			
6 dB Bandwidth	FCC RULES AND REGULATIONS PART 15					
Measurement	SUBPART C	Pass	15.247(a)(2)			
Wiedsureinein	AND ANSI C63.10:2013					
Maximum Dools Output	FCC RULES AND REGULATIONS PART 15					
Maximum Peak Output Power Measurement	SUBPART C	Pass	15.247(b)(3)			
Power Measurement	AND ANSI C63.10:2013					
Emission Limitations	FCC RULES AND REGULATIONS PART 15					
Measurement	SUBPART C	Pass	15.247(d)			
Wiedsureinein	AND ANSI C63.10:2013					
Dand Edga	FCC RULES AND REGULATIONS PART 15					
Band Edge Measurement	SUBPART C	Pass	15.247(d)			
Wieasurement	AND ANSI C63.10:2013					
Power Spectral Density	FCC RULES AND REGULATIONS PART 15					
Power Spectral Density Measurement	SUBPART C	Pass	15.247(e)			
Wiedsureinein	AND ANSI C63.10:2013					
	FCC RULES AND REGULATIONS PART 15					
Antenna Requirement	SUBPART C	Pass	15.203			
	AND ANSI C63.10:2013					
N/A is an abbreviation for Not Applicable.						

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Type of EUT: \blacksquare Production \square Pre-product \square Pro-type

Product Name	HOI CROSS	HOI RIDE
Model Number	CT1061-400US,	HT1057-400US,
Model Number	CT1061-900US	HT1057-900US

Note#1	: The difference between Models as below:		
Model	CT1061-400US	CT1061-900US	
Difference	Just the color is different.		

Model	HT1057-400US	HT1057-900US
Difference	Just the color is different.	

Model		.061-400US,	HT1057-400US,
D:00		1061-900US HT1057-900US	
Difference		1	e same except the mechanical
	stru	ctures were different	
Note#2	:	Acording the differece as above, we selected Model CT1061-400US for main test and model HT1057-400US for differential test in current report.	
Test Model	:	CT1061-400US, HT1057	7-400US
Radio Tech	:	BLE 5.0	
Note	:	LE2M not support.	
Channel Freq.	:	BLE: 2402MHz-2480M	Hz;
Modulation	:	BLE: GFSK;	
Antenna Info.	:	Antenna Type: PCB Antenna Antenna Gain: 3 dBi	
Applicant	:	TRISPORT AG Boesch 67 CH-6331 Huenenberg	
Manufacturer	:	Same as applicant.	

2.2 EUT Specifications Assessed in Current Report

Mode	Modulation	Data Rate(Mbps)
BLE	GFSK	1

Channel List						
Channel No. Frequency (MHz) Channel No. Frequen						
00	2402	20	2442			
01	2404	21	2444			
02	2406	22	2446			
17	2436	37	2476			
18	2438	38	2478			
19	2440	39	2480			

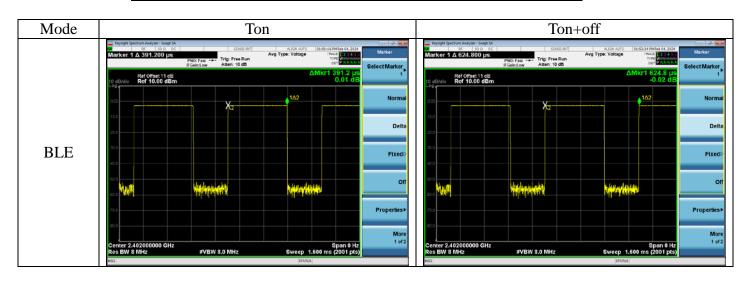
2.3 Test Information

The test software "nRF Connect for Desktop.exe" was used to control EUT work in TX mode, Power Setting and select test channel.

Mode	data rate (Mbps)	Power Setting	Test Channel		Frequency (MHz)
		0	Low:	00	2402
BLE	1	0	Middle:	20	2442
		0	High:	39	2480

2.4 Duty Cycle Check

Mode	Mode Transmission Duration (ms)		Duty Cycle (%)	
BLE	0.3912	0.6248	62.61	



2.5 Sample Description

Test Item	Model Number	Sample Number	Date of receipted
Radiated Emission	CT1061-400US	E20231017179-01/03	2023.10.17
	HT1057-400US	E20231017177-01/01	2023.10.17
Conducted RF Test	CT1061-400US	E20231017179a-01/03	2023.10.17

2.6 Supported equipment

Brand Product Name: Model Name Model Number	:	Acer Notebook PC TravelMate P238 series N15W8
Product Name Product Function	:	Test Fixture USB to TTL

2.7 Description of Test Facility

Name of Firm	:	Audix Technology (Shanghai) Co., Ltd.
Site Location	:	3F, Building 34, No. 680 Guiping Rd., Caohejing, Hi-Tech Park, Shanghai 200233, China
Accredited by NVLAP, Lab Code	:	200371-0
FCC Designation Number	:	CN5027
Test Firm Registration Number	:	954668

3 RADIATED EMISSION TEST

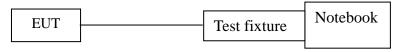
3.1 Test Equipment

The following test equipment are used during the radiated emission test in a semi-anechoic chamber:

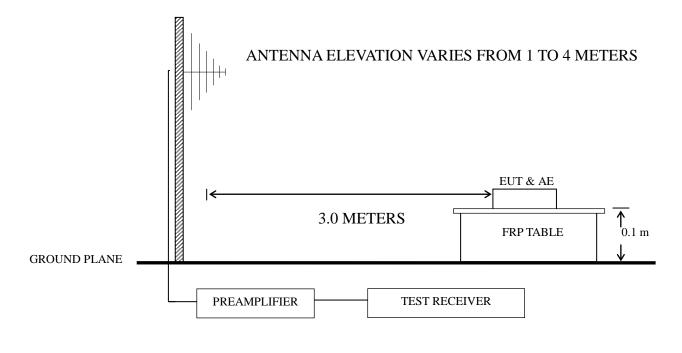
Item	Туре	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Preamplifier	Agilent	8447D	2944A10548	2024.02.22	1 Year
2.	Preamplifier	HP	8449B	3008A00864	2024.02.22	1 Year
3.	EXA Signal Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
4.	Test Receiver	R&S	ESCI	101303	2024.02.22	1 Year
5.	Bilog Antenna+6dB Attenuator	Schwarzbeck	VULB 9168+EMCI- N-6-06	707+AT- N0637	2023.08.09	1 Year
6.	Horn Antenna	EMCO	3115	96074878	2023.08.02	1 Year
7.	Horn Antenna	EMCO	3116	00062643	2023.01.30	2 Year
8.	Cavity Band Rejection Filter	Microwave	WT-A3882-R 10	WT200312-1-1	2024.02.22	1 Year
9.	Coaxial Switch	Anritsu	MP59B	6200655086	2024.02.22	1 Year
10.	Coaxial Cable	SCHAFFNER	RG 212U-MIL C 17+N1K50-E W0630-N1K5 0-15m-1	RE-10m-001/ RE-15m-002	2024.02.22	1 Year
11.	Software	Audix	e3	v9.210616		

3.2 Block Diagram of Test Setup

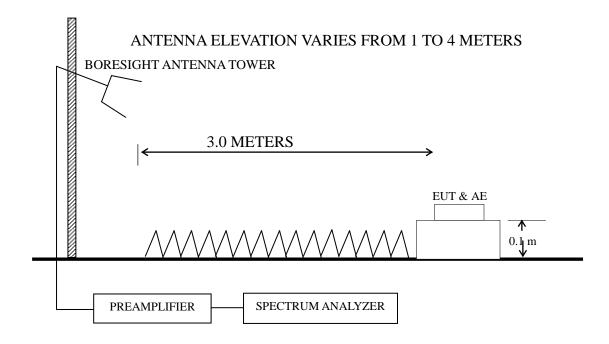
3.2.1 EUT & Peripherals



3.2.2 Below 1GHz



3.2.3 Above 1GHz



3.3 Radiated Emission Limit (§15.209)

Frequency	Distance	Field strength limits (μ V/m)				
(MHz)	(m)	(µV/m)	dB(µV/m)			
30 ~ 88	3	100	40.0			
88 ~ 216	3	150	43.5			
216 ~ 960	3	200	46.0			
Above 960	3	500	54.0			
 NOTE 1 - Emission Level dB (μV/m) = 20 log Emission Level (μV/m) NOTE 2 - The tighter limit applies at the band edges. NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system. 						
NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz.						
NOTE 5 - Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT						

3.4 Test Configuration

The EUT (listed in Sec.2.1) and the simulators (listed in Sec.2.2) were installed as shown on Sec.4.2 to meet FCC requirements and operating in a manner that tends to maximize its emission level in a normal application.

3.5 Operating Condition of EUT

3.5.1 Setup the EUT as shown in Sec. 3.2.

- 3.5.2 Turn the EUT on.
- 3.5.3 Connect the EUT and the TTL terminal of Test Fixture through three HCI cables of EUT, as follows (VCC to DC3V3, TX to RXD, RX to TXD, GND to GND). Plug the USB terminal of Test Fixture to the USB port of Notebook PC.
- 3.5.4 Use the software as section 2.3 to select the test mode, and then test.
- 3.5.5 Repeat step 3.5.3 and 3.5.4, until the test of all modes finished.

3.6 Test Procedures

Radiated emission test applies to harmonics/spurs that fall in the restricted bands listed in Section 15.205. The maximum permitted average field strength is listed in Section 15.209. A pre-amp is necessary for this measurement. For measurement above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.

The EUT was placed on a 0.1m high insulating support on a turntable. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (Calibrated Bilog Antenna) or Horn antenna was used as receiving antenna. Both horizontal and vertical polarizations of the antenna

were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.10: 2013 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESCI was set at 120 kHz from 30MHz to 1000MHz.

The bandwidth of Agilent N9010A was set at 1MHz for above 1GHz.

The frequency range from 30 MHz to 25 GHz (Up to 10th harmonics from fundamental frequency) was checked.

All the test results are listed in Sec.3.7.

3.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Frequency range: below 1GHz (Worst case emission): (Test Model: CT1061-400US)

(Test N	Test Model: C11061-4000S)							
No.	Operation	Mode	Channel	Frequency	Data Page			
1.	Transmitting	BLE	00	2402MHz	P14-15			
(Test N	(Test Model: HT1057-400US)							
No.	Operation	Mode	Channel	Frequency	Data Page			
2.	Transmitting	BLE	00	2402MHz	P16-17			

Frequency range: above 1GHz:

(Test Model: CT1061-400US)

No.	Operation	Mode	Channel	Frequency	Data Page		
1.			00	2402 MHz	P18-19		
2.	Transmitting	BLE	20	2442 MHz	P20-21		
3.			39	2480 MHz	P22-23		
(Test N	(Test Model: HT1057-400US)						
No.	Operation	Mode	Channel	Frequency	Data Page		
4.	Transmitting	BLE	00	2402 MHz	P24-25		

Band-Edge and Restricted bands:

(Test Model: CT1061-400US)

No.	Operation	Mode	Channel	Frequency	Data Page
1.	$\frac{1.}{2.}$ Transmitting	DLE	00	2402 MHz	P26-27
		BLE	39	2480 MHz	P28-29

NOTE 1 – Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor Margin = Limits - Emission Level.

NOTE 2 – "QP" means "Quasi-Peak" values.

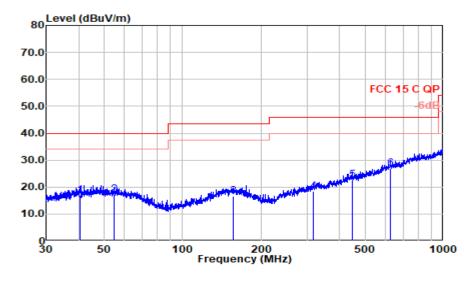
- NOTE $3 0^{\circ}$ was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.
- NOTE 4 The emission levels which not reported are too low against the official limit.
- NOTE 5 The emission levels recorded below is data of EUT configured in Standing direction, for this direction was the maximum emission direction during the test. The Side & Lying direction are not a normal use and too low against the official limit to be reported.
- NOTE 6 All reading are Quasi-Peak values below or equal to 1GHz, Peak and Average values above 1GHz.
 For above 1GHz test, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
- NOTE 7 The frequency range 2310-2390MHz & 2483.5-2500MHz were tested for Restricted bands.

Radiated emission < 1GHz

Test Date: 2024.01.23	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
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Mode: BLE CH2402MHz

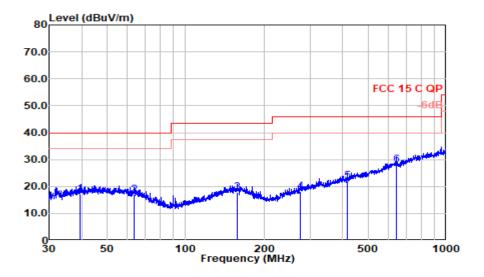
Model: CT1061-400US



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
40.417	26.58	19.60	0.70	29.90	16.97	40.00	23.03	QP
54.739	26.46	19.67	0.81	29.88	17.06	40.00	22.94	QP
155.910	25.37	19.30	1.37	29.38	16.66	43.50	26.84	QP
317.701	25.41	19.91	1.96	28.77	18.50	46.00	27.50	QP
446.414	26.60	23.00	2.33	29.29	22.64	46.00	23.36	QP
626.175	26.69	26.10	2.85	28.89	26.74	46.00	19.26	QP

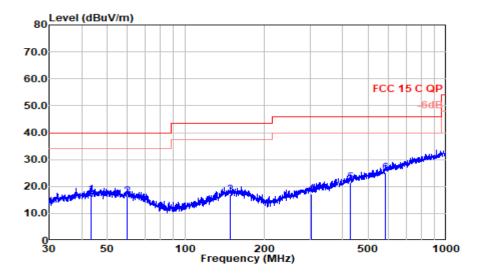
Model: CT1061-400US



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
39.437	27.04	19.49	0.69	29.90	17.31	40.00	22.69	QP
63.647	27.47	18.54	0.87	29.85	17.02	40.00	22.98	QP
157.559	26.57	19.30	1.38	29.37	17.88	43.50	25.62	QP
276.608	26.53	18.66	1.86	28.85	18.20	46.00	27.80	QP
416.910	27.16	21.88	2.25	29.17	22.12	46.00	23.88	QP
640.611	27.75	26.20	2.85	28.84	27.97	46.00	18.03	QP

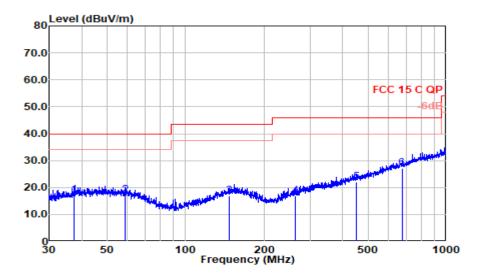
Model: HT1057-400US



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
43.430	26.33	19.86	0.72	29.90	17.01	40.00	22.99	QP
59.545	26.31	19.15	0.84	29.86	16.43	40.00	23.57	QP
148.181	25.93	19.20	1.33	29.41	17.06	43.50	26.44	QP
303.544	24.75	19.27	1.94	28.72	17.24	46.00	28.76	QP
427.270	26.18	22.29	2.28	29.21	21.54	46.00	24.46	QP
585.816	26.27	25.05	2.77	29.05	25.03	46.00	20.97	QP

Model: HT1057-400US



Polarization at Vertical

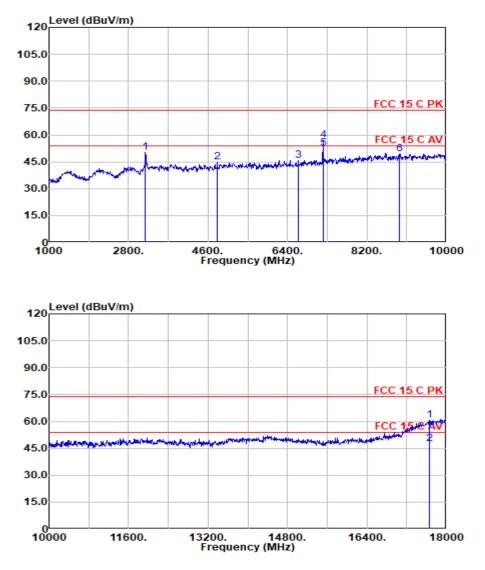
Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
37.548	27.24	19.21	0.67	29.90	17.21	40.00	22.79	QP
58.922	26.94	19.21	0.84	29.87	17.12	40.00	22.88	QP
146.630	25.97	19.10	1.33	29.42	16.97	43.50	26.53	QP
264.282	26.26	18.01	1.78	29.03	17.02	46.00	28.98	QP
453.514	26.01	23.07	2.35	29.31	22.11	46.00	23.89	QP
675.208	26.57	26.41	2.89	28.65	27.22	46.00	18.78	QP

Radiated Emission > 1GHz

Test Date:	2024.01.23	Temp./Hum.:	22°C/51%RH	Test By:	Jarey

Mode: BLE 2402MHz

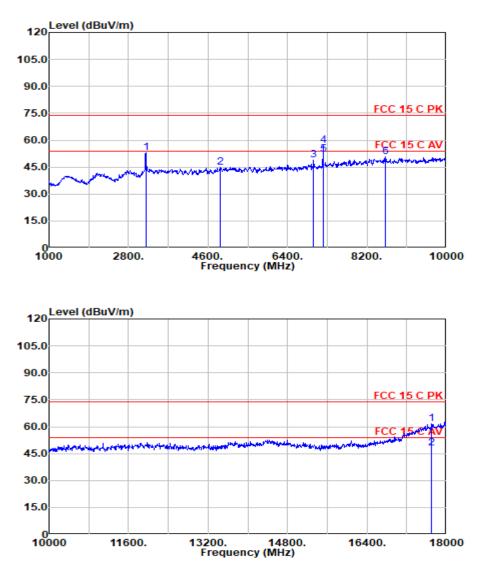
Model: CT1061-400US



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
3187.000	48.26	31.05	6.05	35.32	50.04	74.00	23.96	Peak
4807.000	38.95	32.94	7.62	34.67	44.85	74.00	29.15	Peak
6643.000	36.34	34.89	8.97	34.60	45.59	74.00	28.41	Peak
7210.000	46.00	36.20	9.48	34.67	57.01	74.00	16.99	Peak
7210.000	41.63	36.20	9.48	34.67	52.65	54.00	1.35	Average
8929.000	35.46	38.04	10.61	34.71	49.39	74.00	24.61	Peak
17656.000	30.68	46.64	15.78	32.30	60.80	74.00	13.20	Peak
17656.000	17.47	46.64	15.78	32.30	47.59	54.00	6.41	Average

Model: CT1061-400US

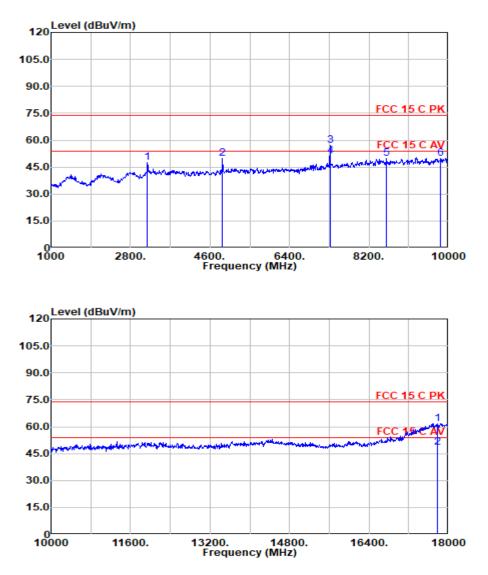


Polarization at Vertical

Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
3196.000	51.02	31.08	6.06	35.31	52.86	74.00	21.14	Peak
4879.000	38.36	33.37	7.69	34.64	44.78	74.00	29.22	Peak
6994.000	38.77	35.60	9.25	34.60	49.02	74.00	24.98	Peak
7210.000	45.86	36.20	9.48	34.67	56.88	74.00	17.12	Peak
7210.000	40.86	36.20	9.48	34.67	51.88	54.00	2.12	Average
8623.000	37.00	38.10	10.51	34.77	50.84	74.00	23.16	Peak
17704.000	31.00	46.91	15.85	32.29	61.47	74.00	12.53	Peak
17704.000	17.43	46.91	15.85	32.29	47.91	54.00	6.09	Average

Mode: BLE 2440MHz

Model: CT1061-400US

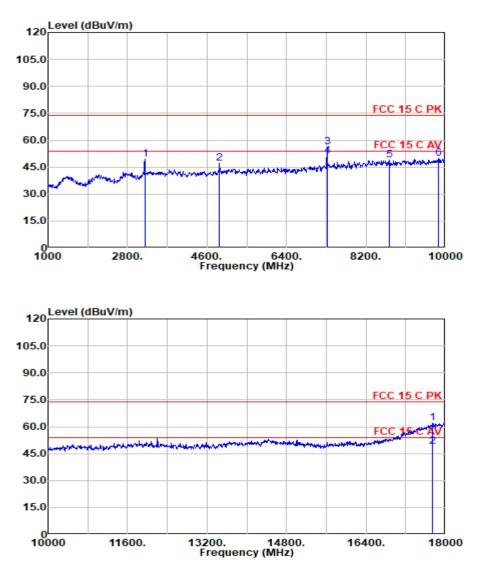


Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
3187.000	45.67	31.05	6.05	35.32	47.46	74.00	26.54	Peak
4879.000	43.45	33.37	7.69	34.64	49.87	74.00	24.13	Peak
7318.000	45.25	36.71	9.60	34.70	56.86	74.00	17.14	Peak
7318.000	39.54	36.71	9.60	34.70	51.15	54.00	2.85	Average
8596.000	35.95	38.11	10.51	34.78	49.79	74.00	24.21	Peak
9820.000	35.18	38.14	11.31	34.62	50.01	74.00	23.99	Peak
17776.000	30.87	47.05	15.96	32.27	61.62	74.00	12.38	Peak
17776.000	17.49	47.05	15.96	32.27	48.24	54.00	5.76	Average

Mode: BLE 2440MHz

Model: CT1061-400US

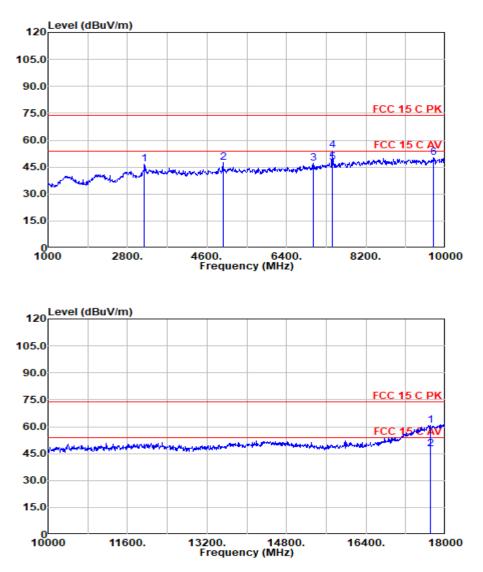


Polarization at Vertical

Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
3196.000	47.50	31.08	6.06	35.31	49.34	74.00	24.66	Peak
4879.000	40.45	33.37	7.69	34.64	46.87	74.00	27.13	Peak
7318.000	44.56	36.71	9.60	34.70	56.18	74.00	17.82	Peak
7318.000	39.43	36.71	9.60	34.70	51.04	54.00	2.96	Average
8722.000	35.13	37.90	10.54	34.75	48.82	74.00	25.18	Peak
9838.000	35.08	38.18	11.32	34.62	49.96	74.00	24.04	Peak
17744.000	31.54	46.99	15.91	32.28	62.17	74.00	11.83	Peak
17744.000	18.15	46.99	15.91	32.28	48.78	54.00	5.22	Average

Mode: BLE 2480MHz

Model: CT1061-400US

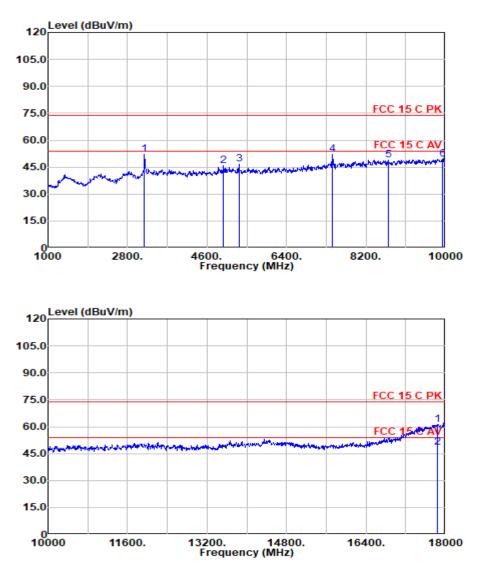


Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
3187.000	44.91	31.05	6.05	35.32	46.70	74.00	27.30	Peak
4960.000	41.09	33.24	7.77	34.61	47.49	74.00	26.51	Peak
7012.000	36.75	35.60	9.26	34.60	47.01	74.00	26.99	Peak
7444.000	42.22	36.90	9.74	34.74	54.12	74.00	19.88	Peak
7444.000	35.62	36.90	9.74	34.74	47.52	54.00	6.48	Average
9730.000	35.56	38.10	11.24	34.63	50.27	74.00	23.73	Peak
17696.000	30.44	46.88	15.84	32.29	60.87	74.00	13.13	Peak
17696.000	17.04	46.88	15.84	32.29	47.47	54.00	6.53	Average

Mode: BLE 2480MHz

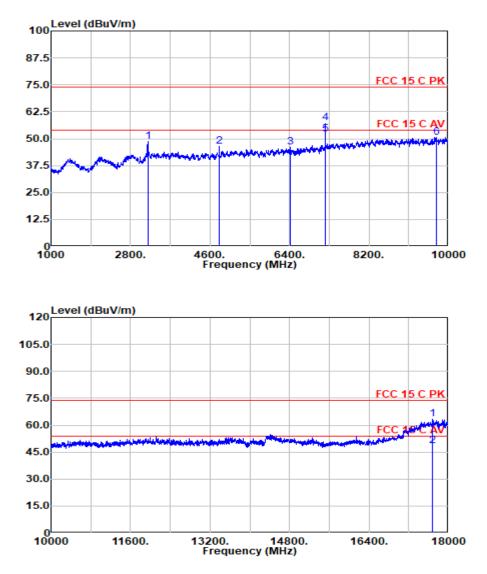
Model: CT1061-400US



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
3187.000	50.34	31.05	6.05	35.32	52.13	74.00	21.87	Peak
4978.000	39.41	33.31	7.79	34.61	45.90	74.00	28.10	Peak
5320.000	39.28	33.98	8.02	34.60	46.67	74.00	27.33	Peak
7444.000	40.17	36.90	9.74	34.74	52.07	74.00	21.93	Peak
8713.000	35.26	37.90	10.54	34.76	48.94	74.00	25.06	Peak
9937.000	34.21	38.40	11.40	34.61	49.40	74.00	24.60	Peak
17848.000	30.24	47.15	16.07	32.24	61.21	74.00	12.79	Peak
17848.000	17.32	47.15	16.07	32.24	48.29	54.00	5.71	Average

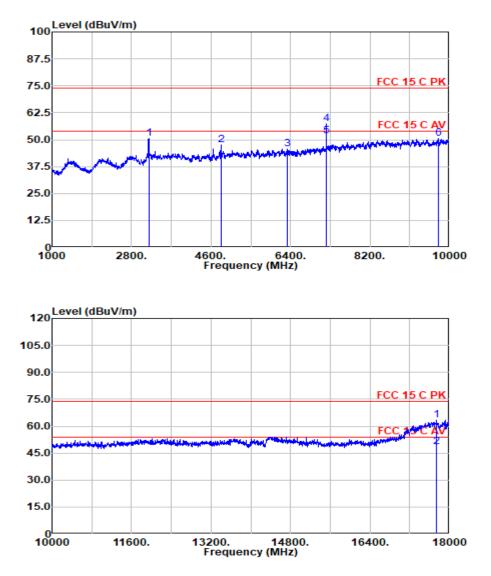
Model: HT1057-400US



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
3196.000	46.76	31.08	6.06	35.31	48.59	74.00	25.41	Peak
4802.500	40.43	32.92	7.62	34.67	46.30	74.00	27.70	Peak
6413.500	37.24	34.50	8.78	34.60	45.92	74.00	28.08	Peak
7205.500	46.32	36.16	9.48	34.67	57.29	74.00	16.71	Peak
7205.500	40.93	36.16	9.48	34.67	51.90	54.00	2.10	Average
9721.000	35.93	38.10	11.23	34.63	50.64	74.00	23.36	Peak
17672.000	33.23	46.73	15.81	32.30	63.48	74.00	10.52	Peak
17672.000	18.12	46.73	15.81	32.30	48.37	54.00	5.63	Average

Model: HT1057-400US



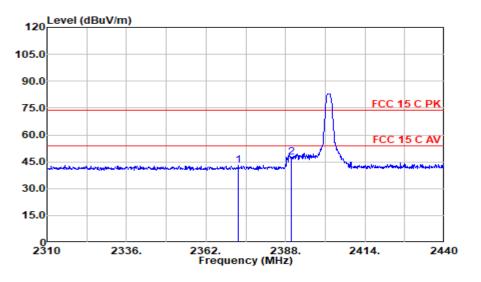
Polarization at Vertical

Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
3191.500	48.57	31.07	6.06	35.31	50.38	74.00	23.62	Peak
4829.500	41.54	33.08	7.65	34.66	47.60	74.00	26.40	Peak
6337.000	36.90	34.70	8.71	34.60	45.72	74.00	28.28	Peak
7205.500	46.56	36.16	9.48	34.67	57.53	74.00	16.47	Peak
7205.500	40.67	36.16	9.48	34.67	51.64	54.00	2.36	Average
9743.500	35.77	38.10	11.25	34.62	50.50	74.00	23.50	Peak
17736.000	32.68	46.97	15.90	32.28	63.28	74.00	10.72	Peak
17736.000	17.97	46.97	15.90	32.28	48.56	54.00	5.44	Average

Band-Edge and Restricted bands:

Test Date: 2024.02.04	Temp./Hum.:	22°C/51%RH	Test By:	Jarey
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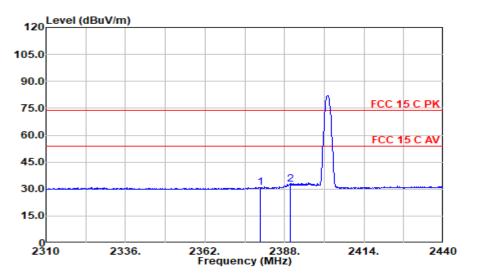
Mode: BLE 2402MHz



Polarization at Horizontal

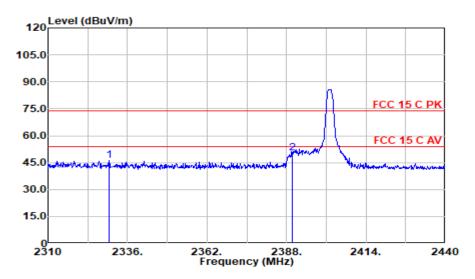
Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
2372.530	45.05	28.49	5.37	36.04	42.88	74.00	31.12	Peak
2390.000	49.40	28.56	5.39	36.02	47.34	74.00	26.66	Peak

Mode: BLE 2402MHz



Polarization at Horizontal

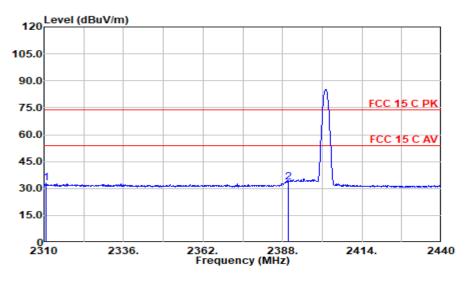
Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
2379.940	33.08	28.52	5.38	36.03	30.95	54.00	23.05	Average
2390.000	34.88	28.56	5.39	36.02	32.81	54.00	21.19	Average



Polarization at Vertical

	m) (dB)	
2330.020 48.57 28.24 5.33 36.09 46.06 74.0	0 27.94	Peak
2390.000 52.38 28.56 5.39 36.02 50.31 74.0	0 23.69	Peak

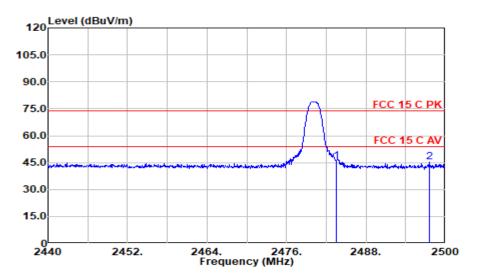
Mode: BLE 2402MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
2310.650	35.69	28.09	5.32	36.11	32.98	54.00	21.02	Average
2390.000	35.77	28.56	5.39	36.02	33.70	54.00	20.30	Average

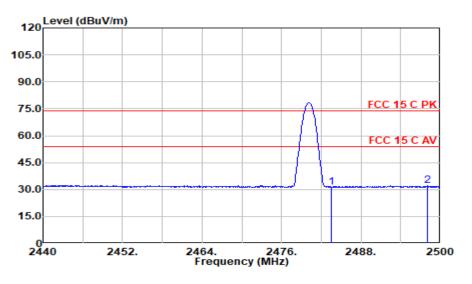
Mode: BLE 2480MHz



Polarization at Horizontal

2483.500 47.64 28.63 5.47 35.91 45.83 74.00 28.17 Peak	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
	2483.500	47.64	28.63	5.47	35.91	45.83	74.00	28.17	Peak
2497.540 46.79 28.69 5.48 35.90 45.07 74.00 28.93 Peak	2497.540	46.79	28.69	5.48	35.90	45.07	74.00	28.93	Peak

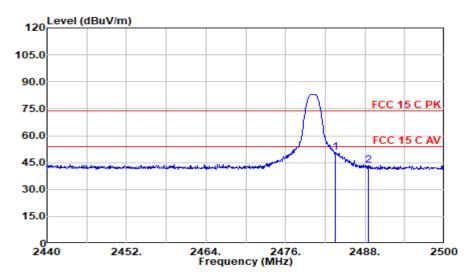
Mode: BLE 2480MHz



Polarization at Horizontal

Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
2483.500	33.21	28.63	5.47	35.91	31.40	54.00	22.60	Average
2498.080	33.69	28.69	5.48	35.90	31.97	54.00	22.03	Average

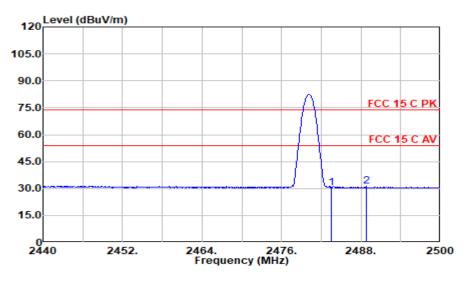
Mode: BLE 2480MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
2483.500	52.38	28.63	5.47	35.91	50.57	74.00	23.43	Peak
2488.540	45.38	28.65	5.47	35.91	43.60	74.00	30.40	Peak

Mode: BLE 2480MHz



Polarization at Vertical

Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
2483.500	32.24	28.63	5.47	35.91	30.43	54.00	23.57	Average
2488.840	32.84	28.66	5.47	35.91	31.06	54.00	22.94	Average

4 6 dB BANDWIDTH MEASUREMENT

4.1 Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Item	Туре	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	10 dB Attenuator	Mini-Circuits	BW-S10W2+	001	2023.08.09	1 Year

4.2 Block Diagram of Test Setup

Spectrum Analyzer	 Attenuator	EUT	 Test Fixture	Notebook PC

4.3 Specification Limits (§15.247(a)(2))

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

4.4 Operating Condition of EUT

The software as section 2.3 was used to enable the EUT to change the test mode one by one.

4.5 Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with settings: RBW = 100kHz, $VBW \ge 3 \times RBW$.

The 6 dB bandwidth is defined as the total spectrum the power of which is lower than peak power minus 6 dB.

The test procedure is defined in ANSI C63.10-2013 (the 11.8.2 Measurement Procedure "Option 2" was used).

4.6 Test Results

PASSED.

All the test results are attached in next pages.

(Test Date: 2024.02.04 Temperature: 23°C Humidity: 51 %)

Mode	Channel	Frequency (MHz)	6dB Bandwidth (kHz)	Limit
	00	2402	707.8	500 kHz
BLE	20	2442	711.7	500 kHz
	39	2480	712.9	500 kHz

BLE		
CH2402		CH2442
Knysight Spectrum Analyzer - Occupied IW SENSE.INT ALION AUTO 10-49:10 ANT+50 47,302 V 96 96 96 0 10-49:10 ANT+50 47,302 Center Freq 2.4022000000 GHz City Free Run #IFGain.Low Center Freq: 2.40200000 GHz Radio Std: None III Gain.Low REfain.Low Radio Std: None Radio Device: BTS	Frequency	Koylight Spectrum Analyzer - Occupied BW Strids_EINT ALION AUTO 10:50:15 AM Feb 04, 2024. PF 59:0 DC Center Freq: 2:44200000 OHz Trigs: Free Run Avg Hold:>100/100 Radio Sdc: None Frequency #EfGaint.ew #EfGaint.ew #Atten: 10 dB Avg Hold:>100/100 Radio Device: BTS Frequency
	Center Freq 2.40200000 GHz	Log 000 100 100 100 100 100 100 10
Center 2.402000 GHz Span 3.000 MH: #Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms	300.000 kHz	Center 2.442000 GHz Span 3.000 MHz CF Step #Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms 300.000 kHz
Occupied Bandwidth Total Power 3.91 dBm 1.0724 MHz	Auto Man	Occupied Bandwidth Total Power 3.52 dBm
Transmit Freq Error 148.78 kHz % of OBW Power 99.00 %	Freq Offset 0 Hz	Transmit Freq Error 151.45 kHz % of OBW Power 99.00 %
x dB Bandwidth 707.8 kHz x dB -6.00 dB		x dB Bandwidth 711.7 kHz x dB -6.00 dB
MSG STATUS		INSO STATUS
CH2480	Center Freq 2.48000000 GHz	
Occupied Bandwidth Total Power 3.24 dBm 1.0789 MHz	Freq Offset	
Transmit Freq Error 153.63 kHz % of OBW Power 99.00 %	0 Hz	
x dB Bandwidth 712.9 kHz x dB -6.00 dB		
MSG STATUS		

5 MAXIMUM PEAK OUTPUT POWER MEASUREMENT

5.1 Test Equipment

The following test equipment was used during the maximum peak output power measurement:

Item	Туре	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	10 dB Attenuator	Mini-Circuits	BW-S10W2+	001	2023.08.09	1 Year

5.2 Block Diagram of Test Setup

The Same as Section. 5.2.

5.3 Specification Limits ((§15.247(b)(3))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5 MHz is: 1 Watt. (30 dBm)

5.4 Operating Condition of EUT

The software as section 2.3 was used to enable the EUT to change the test mode one by one.

5.5 Test Procedure

The transmitter output was connected to the spectrum analyzer.

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) $RBW \ge DTS$ Bandwidth.
- b) VBW \geq [3 × RBW].
- c) Span \geq [3 × RBW].
- d) Sweep time = auto.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

The test procedure is defined in ANSI C63.10-2013 (11.9.1.1 Measurement Procedure " RBW \square DTS bandwidth" was used).

5.6 Test Results

PASSED.

All the test results are listed below.

(Test Date: 2024.02.04 Temperature: 23°C Humidity: 51 %)

Mode	Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit
	00	2402	-2.742	30 dBm
BLE	20	2442	-3.094	30 dBm
	39	2480	-3.377	30 dBm

BLE							
CH2402				CH2442			
Keysight Spectrum Analyzer - Swept SA 8 95 59.8 0C Marker 1 2.401880000000 0 Ref Offset 11 dB 10 dB/div Ref 10.00 dBm	GHZ PNO: Fast Trig: Free Run IFGain:Low Atten: 10 dB	Augunauro 1229-37 MHeb 04.2024 Avg Type: Log-Pur Avg[Mold:>1001100 Mkr1 2:401 880 0 GHz -2.742 dBm	Peak Search Next Peak	Keysight Spectrum Analyzer - Swept SA W RF 59 Q DC Marker 1 2:44188150000 Ref Offset 11 dB 10 dB/dly Ref 10.00 dBm	PNO: Fast IFGain:Low Trig: Free Run Atten: 10 dB	ALISN AUTO 12:30 Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1 2.441	DETPNNNN
	↓ 1		Next Pk Right		↓1 1		Next Pk Right
-20.0			Next Pk Left	-20.0			Next Pk Left
-30.0			Marker Delta	-30.0			Marker Delta
-50.0			Mkr→CF	-50.0			Mkr→CF
-70.0			Mkr→Ref Lvi More	-70.0			Mkr→RefLvi
Center 2.402000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Span 3.000 MHz Sweep 1.067 ms (2001 pts)	1.40	Center 2.442000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Spa Sweep 1.067 i status	1.10
CH2480							
	SENSE:INT PNO: Fast IFGain:Low Trig: Free Run Atten: 10 dB	AUGN AUTO 12:31:02 PM Feb 04, 2024 Avg Type: Log-Pwr TRACE 12:34:5 C Avg Hold:>100/100 Trace 12:34:5 C Trace 12:34:5 C Trace 12:34:5 C	Peak Search				
Ref Offset 11 dB 10 dB/div Ref 10.00 dBm		-3.377 dBm	Next Pk Right				
-20.0			Next Pk Left				
-30.0			Marker Delta				
-50.0			Mkr→CF				
-70.0			Mkr→RefLvl				
Center 2.480000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Span 3.000 MHz Sweep 1.067 ms (2001 pts)	More 1 of 2				
MSG		STATUS		1			

EMISSION LIMITATIONS MEASUREMENT 6

	The following test equipment was used during the emission limitations test:							
Item	Туре	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval		
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year		
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year		
3.	10 dB Attenuator	Mini-Circuits	BW-S10W2+	001	2023.08.09	1 Year		

6.1 Test Equipment

C 11 .

6.2 **Block Diagram of Test Setup**

The Same as Section, 5.2.

6.3 Specification Limits (§15.247(d))

> In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

> In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). (*X* This test result attaching to Section. 3.7)

6.4 **Operating Condition of EUT**

The software as section 2.3 was used to enable the EUT to change the test mode one by one.

6.5 **Test Procedure**

The transmitter output was connected to the spectrum analyzer.

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to ≥ 1.5 times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW \geq [3 × RBW].
- e) Detector = peak.

f) Sweep time = auto couple.

g) Trace mode = max hold.

h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Establish an emission level by using the following procedure:

a) Set the center frequency and span to encompass frequency range to be measured.

- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq [3 \times RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

Scan up through 10th harmonic.

The test procedure is defined in ANSI C63.10-2013 (11.11.2 Reference level measurement and 11.11.3 Emission level measurement was used).

6.6 Test Results

PASSED.

The test data was attached in the next pages.

(Test Date: 2024.02.04 Temperature: 23°C Humidity: 51 %)

Mode	Channel	Frequency (MHz)	Data Page
	00	2402	P39
BLE	20	2442	P40
	39	2480	P41

BLE	
CH2402	
Reference Level	Lower Edge
Keytight Spectrum Audges:-Sweet SA Auton Autors Selection Auton Autors Frequency Center Freq 2.402000000 GHz Proc Was Trig: Free Run It Gain:Low Avg Type: Log-Pvr Auton 100 dB Trig: Free Run Auton 100 dB Avg Type: Log-Pvr Auton 200 dB Trig: Free Run Auton 200 dB Auton 200 dB Center Freq 2.402000000 GHz Auton 200 dB Center Freq 2.40200000 GHz Start Freq 2.40200000 GHz Start Freq 2.403000000 GHz Start Freq 2.403000000 GHz Start Freq 2.40300000 GHz Start Freq 2.403000000 GHz Start Freq 2.403000000 GHz Start Freq 2.403000000 GHz Start Freq 2.403000000 GHz Start Freq 2.40300000 GHz	Keyligkt Spectrum Analger - Swegt SA Spice Expl Proc. Fast Biolog Autom Analger - Swegt SA Marker Marker 2 2.399700000000 GHz Broot Fast Biolog Trig: Free Run Atten: 10 dB Autom Analger - Swegt SA Marker 10 dBlob Ref Ortiset 11 dB Control Spice Expl Proc. Fast Biolog Marker Spice Expl Proc. Fast Biolog Marker Select Marker Proc. Fast Biolog Spice Expl Proc. Fast Biolog Marker Select Marker Proc. Fast Biolog Select Marker Proc. Fast Biolog
Emission Level	Konjujst Spectrum Analyzer - Sengt SA SENSE BIT Auton Muto 1919/99/99/99/99/99/99/99/99/99/99/99/99
Normalize Stop 10.000 GHz Stop 10.000 GHz Off #Res BW 100 kHz #VBW 300 kHz Sweep 952.9 ms (2001 pts) Off More Noc TRC SkL X Y FUNCTION FUNCTION FUNCTION WOTH FUNCTION WALKE 1 1 f 1.715 GHz -58.21 dBm FUNCTION FUNCTION WOTH FUNCTION WALKE Properties F 3 N 1 f 7.208 GHz -51.815 dBm GMore 10.0111 FUNCTION WALKE FUNCTION WALKE FOR TO WALKE FOR TO WALKE FOR TO WALKE FOR TO WALKE FUNCTION WALKE FOR TO WALKE	Start 10.000 GHz #VBW 300 kHz Stop 25.000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.434 s (2001 pts) More Mode TRC SLL X Y Flaction Flaction worth 1 N f 12010 0 GHz 57.634 dBm Flaction Flaction worth

FCC ID: 2BB2MCT1061-400US

BLE

CH2442

Reference Level



Emission Level

Keysight Spectrum Analyzer - Swept SA RF S0 Ω DC Marker 3 7.3280400000	SENSE:INT	Avg Type: Log-Pwr Avg Hold:>100/100	26:56 PM Feb 04, 2024 TRAGE 2 3 4 5 6 TYPE MUNNINN DET PINNNNN	Marker Select Marker	Kepsigkt Spectrum Avalyzer - Swept SA SENGESHT ALION AUTO 01.40.33 PMFeb 64, 2024 Warker 3: 23.5597500000000 GHz PNO. Fast Company Trig: Free Run Avg Type: Log-Pwr Trig: Free Run Avg Type: Log-Pwr Trig: Free Run Avg Type: Log-Pwr	Marker Select Marker
Ref Offset 11 dB 10 dB/div Ref 10.00 dBm 0.00			3 7.328 GHz 51.648 dBm	3 [*] Normal	Ref Offset 11 dB Mkr3 23.597 5 GHz 10 dB/div Ref 10.00 dBm -60.437 dBm 0 00 -60.437 dBm -60.437 dBm	3 [*] Normal
-20.0	y₁¢²	3	(1.1-2) 19 dBe	Delta	300 0129940 400 01 0129940 400 01 0129940	Delta
-60.0	h			Fixed⊳		Fixed⊳
		Sweep 952.9	p 10.000 GHz ms (2001 pts)	Off	Start 10.000 GHz Stop 25.000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.434 s (2001 pts) Mrst MOS FR; SCL x Y Function Function water	Off
1 N 1 f 2 N 1 f 4 5 6	2 313 GHz -59.023 dBm 4.885 GHz -51.819 dBm 7.328 GHz -51.648 dBm			Properties►	1 N 1 f 12212 6Hz -59 110 dBm 2 N 1 f 19847 6 GHz -51 980 dBm 3 N 1 f 23.597 5 GHz -61 980 dBm 4 6	Properties►
7 9 10 11				More 1 of 2		More 1 of 2
MSG		STATUS			MSG STATUS	



7 POWER SPECTRAL DENSITY MEASUREMENT

7.1 Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Туре	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A	MY52221182	2023.08.09	1 Year
2.	RF Cable	Mini-Circuits	FLC-3FT-SM SM+	22022838	2023.08.09	1 Year
3.	10 dB Attenuator	Mini-Circuits	BW-S10W2+	001	2023.08.09	1 Year

7.2 Block Diagram of Test Setup

The Same as section 5.2.

7.3 Specification Limits (§15.247(e))

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band.

7.4 Operating Condition of EUT

The software as section 2.3 was used to enable the EUT to change the test mode one by one.

7.5 Test Procedure

The transmitter output was connected to the spectrum analyzer.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to 3 kHz \leq RBW \leq 100 kHz.
- d) Set the VBW \geq [3 \times RBW].
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum amplitude level within the RBW.

j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

The test procedure is defined in ANSI C63.10-2013 (11.10.2 Measurement Procedure "Method PKPSD (peak PSD)" was used).

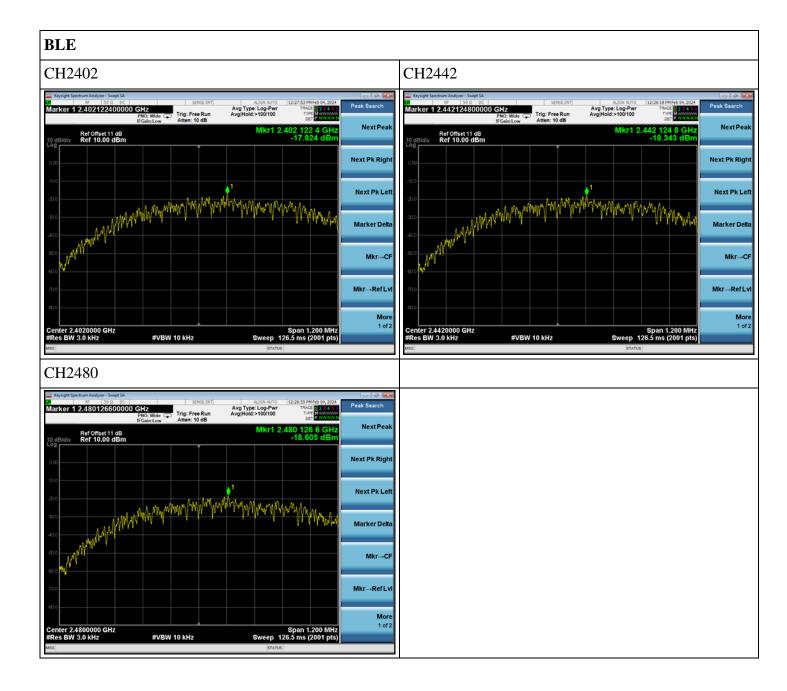
7.6 Test Results

PASSED.

All the test results are attached in next pages.

(Test Date: 2024.02.04 Temperature: 23°C Humidity: 51 %)

Mode	Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limit
	00	2402	-17.824	8 dBm
BLE	20	2442	-18.343	8 dBm
	39	2480	-18.605	8 dBm



8 ANTENNA REQUIREMENT

8.1 Specification Limits (§15.203)

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 Result

According to KDB 353028 D1, the following describes the three ways that can					
be used to demonstrate compliance to Section 15.203:					
a) Antenna permanently attached.					
b) Unique (non-standard) antenna connector.					
c) Professional installation.					
For this product, the antenna is:					
Antenna permanently attached					
\Box Unique (non-standard) antenna connector					
\Box Professional installation					
\Box not meet any of ways list above					
that					
☑ compliant					
□ not compliant					
with the requirement of Section 15 203					

9 DEVIATION TO TEST SPECIFICATIONS

None.

10 MEASUREMENT UNCERTAINTY LIST

The measurement uncertainty was estimated for test on the EUT according to CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage of K=2. The uncertainties value is not used in determining the PASS/FAIL results.

Test Items/Facilities	Frequency/Equipment/Unit	Uncertainty
Conducted Emission	9kHz~150kHz	±3.1 dB
No.1 Shielded Room	150kHz~30MHz	±2.6 dB
Conducted Emission	9kHz~150kHz	±3.1 dB
No.3 Shielded Room	150kHz~30MHz	±2.6 dB
	30MHz~200MHz, Horizontal	±3.8 dB
	30MHz~200MHz, Vertical	±4.1 dB
	200MHz~1000MHz, Horizontal	±3.6 dB
Radiated Emission	200MHz~1000MHz, Vertical	±5.1 dB
	1GHz~6GHz	±5.3 dB
	6GHz~18GHz	±5.3 dB
	18GHz~40GHz	±3.5 dB
Output Power Test	50MHz~18GHz	0.77 dB
Power Density Test	9kHz~6GHz	1.08 dB
RF Frequency Test	9kHz~40GHz	6*10-4
Bandwidth Test	9kHz~6GHz	$1.5*10^{-3}$
RF Radiated Power Test	30MHz~1000MHz	3.06 dB
Conducted Output Power Test	50MHz~18GHz	0.83 dB
AC Voltage(<10kHz) Test	120V~230V	0.04 %
DC Power Test	0V~30V	0.4 %
Temperature	-40°C~+100°C	0.52 °C
Humidity	30%~95%	2.6 %