



TEST REPORT

Applicant: TECNO MOBILE LIMITED

Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

Product Name: Mobile Phone

FCC ID: 2ADYY-KL6

47 CFR Part 15, Subpart C(15.247) Standard(s): ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02 Report Number: 2402V85515E-RF-00A

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Report Date: 2024/8/20

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2402V85515E-RF-00A	Original Report	2024/8/20

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1. GENERAL INFORMATION

1.1 General Description Of Equipment under Test

EUT Name:	Mobile phone
EUT Model:	KL6
Operation Frequency:	BLE 1Mbps:2402-2480 MHz BLE 2Mbps:2404-2478 MHz
Maximum Peak Output Power (Conducted):	-2.96dBm
Modulation Type:	GFSK
Rated Input Voltage:	DC 3.87V from battery or DC 5.0/7.5V from adapter
Serial Number:	AC Line Conducted Emissions and Radiated Spurious Emission: 2OCI-1 RF Conducted: 2OCI-2
EUT Received Date:	2024/7/12
EUT Received Status:	Good

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
Adapter	TECNO MOBILE LIMITED	U180TSA	Input: 100-240Vac 50/60Hz 0.6A Output: 5.0Vdc 2.4A or 7.5Vdc 2.4A 18W MAX
Earphone	TECNO MOBILE LIMITED	Unknown	Unknown

1.3 Antenna Information Detail

Antenna	Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain	
ANT 13 (Chain 0)	TECNO MOBILE	FPC	50	2.4-2.5GHz	0.3dBi	
ANT 14 (Chain 1)	LIMITED	FPC	50	2.4-2.5GHz	0.6dBi	
The design of compliance with §15.203:						
\boxtimes	Unit uses a permanently attached antenna.					
	Unit uses a unique coupling to the intentional radiator.					
Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.						

1.4 Equipment Modifications

No modifications are made to the EUT during all test items.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.203	Antenna Requirement	Compliant
FCC §15.207(a)	AC Line Conducted Emissions	Compliant
FCC §15.205,§15.209,§15.247(d)	Radiated Spurious Emission	Compliant
FCC §15.207(a)(2)	6dB Emission Bandwidth	Compliant
FCC §15.247(b)(1)	Maximum Conducted Output Power	Compliant
FCC §15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
FCC §15.247(e)	Power Spectral Density	Compliant

Note 1: For AC line conducted emissions, the maximum output power mode and channel was tested. Note 2: For Radiated Spurious Emissions 9kHz~ 1GHz, the maximum output power mode and channel was tested.

3. DESCRIPTION OF TEST CONFIGURATION

3.1 Operation Frequency Detail

BLE 1Mbps:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	•••	
			•••
		38	2478
19	2440	39	2480

BLE 2Mbps:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2404	20	2442
		•••	
19	2440	38	2478

3.2 EUT Operation Condition

The EUT was configured for testing in Engineering Mode, which was provided by the manufacturer. The EUT configuration as below:

EUT Exercise Software:	engineering mode
-------------------------------	------------------

The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer \blacktriangle :

		Power Level Setting	
Test Modes		Chain 0& Chain 1	
	Lowest Channel	Middle Channel	Highest Channel
BLE 1Mbps	default	default	default
BLE 2Mbps	default	default	default

3.3 Support Equipment List and Details

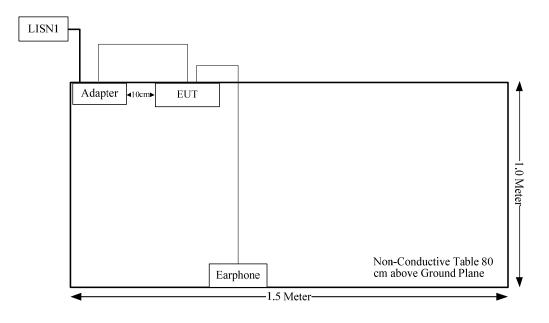
Manufacturer	Description	Model	Serial Number
/	/	/	/

3.4 Support Cable List and Details

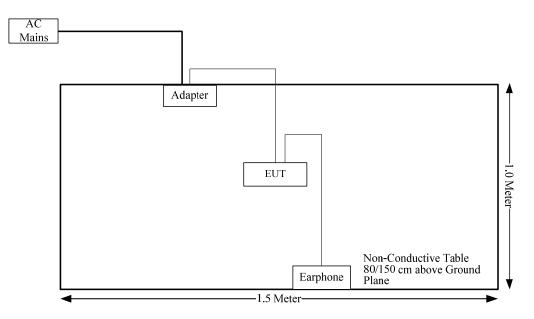
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
USB Cable	no	no	0.8	Adapter	EUT
earphone Cable	no	no	1.2	Earphone	EUT

3.5 Block Diagram of Test Setup

AC line conducted emissions:



Spurious Emissions:



3.6 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

3.7 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9kHz~30MHz: 3.3dB, 30MHz~200MHz: 4.55 dB,200MHz~1GHz: 5.92 dB,1GHz~6GHz: 4.98 dB, 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz:5.47 dB, 26.5GHz~40GHz:5.63 dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1 °C
Humidity	$\pm 5\%$
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.11 dB (150 kHz to 30 MHz)

4. REQUIREMENTS AND TEST PROCEDURES

4.1 AC Line Conducted Emissions

4.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

	Conducted limit (dBµV)	
Frequency of emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

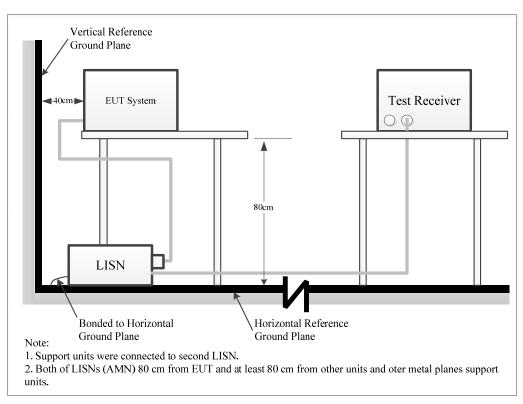
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221,§15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

4.1.2 EUT Setup



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207limits.

The spacing between the peripherals was 10cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

4.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

4.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground[protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

4.1.5 Corrected Result& Margin Calculation

The basic equation is as follows:

Result = Reading + Factor Factor=attenuation caused by cable loss + voltage division factor of AMN

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

4.1.6 Test Result

Please refer to section 5.1.

4.2 Radiation Spurious Emissions

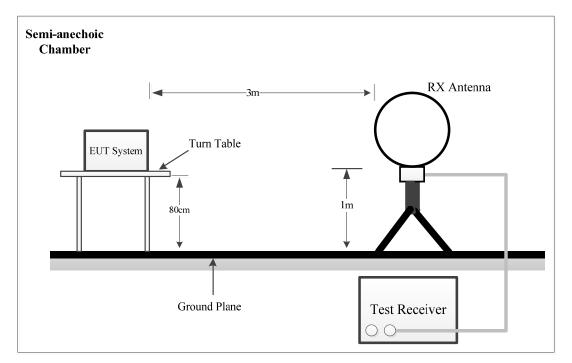
4.2.1 Applicable Standard

FCC §15.247 (d);

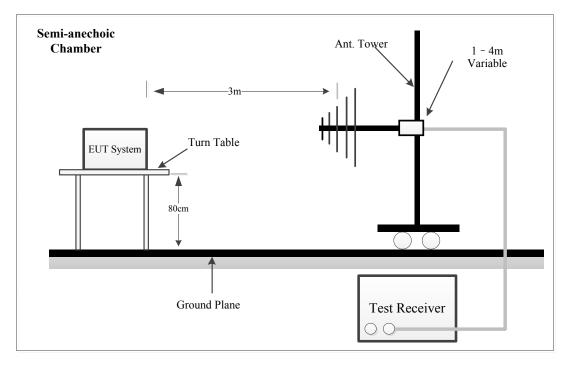
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

4.2.2 EUT Setup

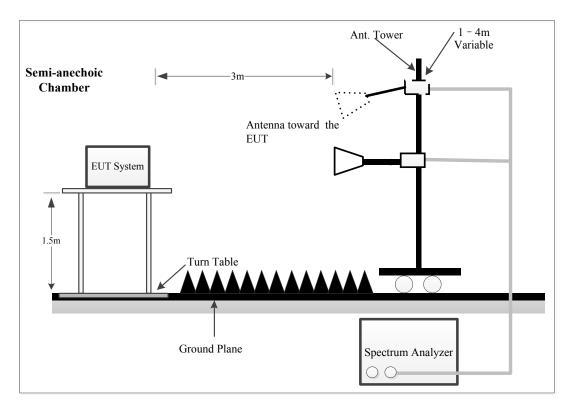
9kHz-30MHz:



30MHz~1GHz:



Above 1GHz:



The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

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The spacing between the peripherals was 10cm.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

4.2.3EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9kHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9kHz-1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W
9 kHz – 150 kHz	QP/AV	200Hz	1 kHz	200 Hz
150 kHz – 30 MHz	QP/AV	9 kHz	30 kHz	9 kHz
30MHz – 1000 MHz	PK	100 kHz	300 kHz	/
30MINZ – 1000 MINZ	QP	/	/	120kHz

1GHz-25GHz:

Measurement	Duty cycle	RBW	Video B/W	
РК	Any	1MHz	3 MHz	
Ave.	>98%	1MHz	10 Hz	
	<98%	1MHz	≥1/T	

Note: T is minimum transmission duration

If the maximized peak measured value is under the QP/Average limit by more than 6dB, then it is unnecessary to perform an QP/Average measurement.

4.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz-1 GHz except 9-90 kHz, 110-490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1 GHz.

All emissions under the average limit and under the noise floor have not recorded in the report.

4.2.5 Corrected Result & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor Factor= Antenna Factor + Cable Loss- Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

4.2.6 Test Result

Please refer to section 5.2.

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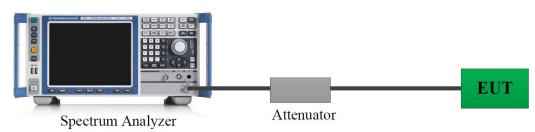
4.3 Minimum 6 dB Bandwidth

4.3.1 Applicable Standard

FCC §15.247 (a)(2)

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

4.3.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer.

4.3.3 Test Procedure

According to ANSI C63.10-2013 Section 11.8

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.3.4 Test Result

Please refer to section 5.3.

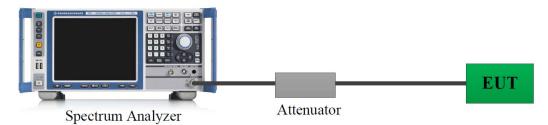
4.4 Maximum Conducted Output Power

4.4.1 Applicable Standard

FCC §15.247 (b)(3)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

4.4.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The cable loss of this RF cable was offset into the setting of test equipment, which was provided by manufacturer \blacktriangle .

4.4.3 Test Procedure

According to ANSI C63.10-2013 Section 11.9.1.1

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) Set the RBW \geq DTS bandwidth.
- b) Set VBW \geq [3 × RBW].
- c) Set span $\geq [3 \times RBW]$.
- d) Sweep time = auto couple.
- 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.

4.4.4 Test Result

Please refer to section 5.4.

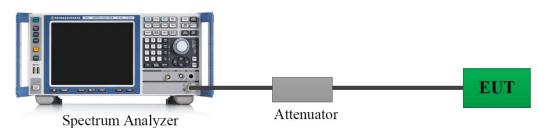
4.5 Maximum power spectral density

4.5.1 Applicable Standard

FCC §15.247 (e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

4.5.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The cable loss of this RF cable was offset into the setting of test equipment, which was provided by manufacturer \blacktriangle .

4.5.3 Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

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 × 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.

4.5.4 Test Result

Please refer to section 5.5.

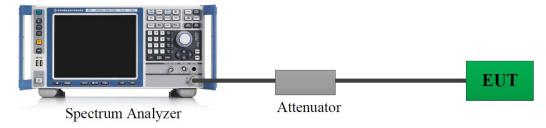
4.6 100 kHz Bandwidth of Frequency Band Edge

4.6.1 Applicable Standard

FCC §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)).

4.6.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer.

4.6.3 Test Procedure

According to ANSI C63.10-2013 Section 11.11

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 × 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.

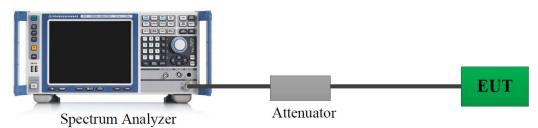
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

4.6.4 Test Result

Please refer to section 5.6.

4.7 Duty Cycle

4.7.1 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer.

4.7.2 Test Procedure

According to ANSI C63.10-2013 Section 11.6

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

1) Set the center frequency of the instrument to the center frequency of the transmission.

2) Set $RBW \ge OBW$ if possible; otherwise, set RBW to the largest available value. 3) Set $VBW \ge RBW$. Set detector = peak or average.

4) The zero-span measurement method shall not be used unless both RBW and VBW are> 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \le 16.7$ μs.)

4.7.3 Judgment

Report only, please refer to section 5.7.

4.8 Antenna Requirement

4.8.1 Applicable Standard

FCC §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or§15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.8.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.3.

5. Test DATA AND RESULTS

5.1 AC Line Conducted Emissions

Serial Number:	20CI-1	Test Date:	2024/7/23~2024/8/20
Test Site:	CE	Test Mode:	Transmitting
Tester:	Lane Sun, Yukin Qiu	Test Result:	Pass

Environmental Conditions:

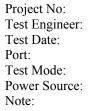
Temperature: (°C)26.3~27.1Relative Humidity: (%)ATM Pressure (kPa)	$1004 \approx 1006$
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2023/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2023/9/7	2024/9/6
R&S	EMI Test Receiver	ESCI	100035	2023/8/18	2024/8/17
R&S	EMI Test Receiver	ESCI	100035	2024/8/18	2025/8/17
R&S	Test Software	EMC32	V9.10.00	N/A	N/A

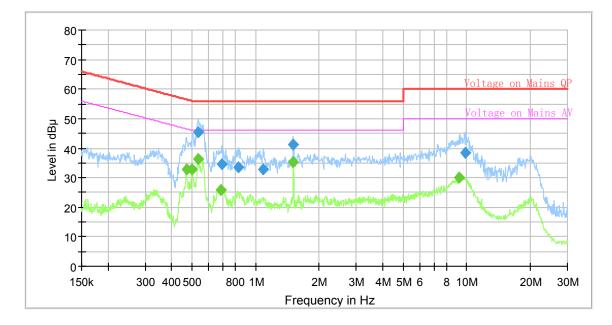
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Report No.:2402V85515E-RF-00A



Lane Sun 2024-7-23 L Transmitting AC 120V/60Hz BLE 2Mbps Middle Channel Chain 0

2402V85515E-RF

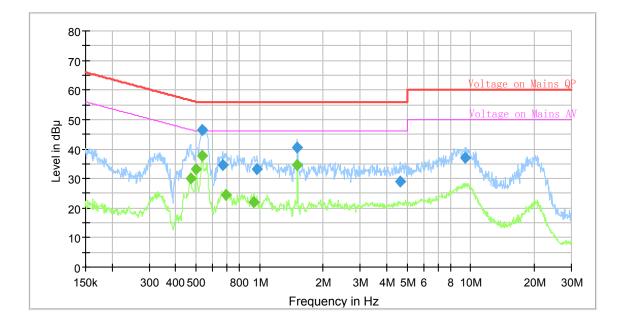


Frequency (MHz)	QuasiPeak (dB µ V)	Average (dB μ V)	Limit (dB µ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.472373		32.70	46.47	13.77	9.000	L1	10.8
0.501508		32.99	46.00	13.01	9.000	L1	10.8
0.532440		36.39	46.00	9.61	9.000	L1	10.8
0.535103	45.56		56.00	10.44	9.000	L1	10.8
0.686657		25.74	46.00	20.26	9.000	L1	10.9
0.690091	34.63		56.00	21.37	9.000	L1	10.9
0.825818	33.53		56.00	22.47	9.000	L1	10.9
1.086470	32.73		56.00	23.27	9.000	L1	10.8
1.510003	41.32		56.00	14.68	9.000	L1	10.8
1.510003		35.36	46.00	10.64	9.000	L1	10.8
9.231202		30.05	50.00	19.95	9.000	L1	10.8
9.849566	38.26		60.00	21.74	9.000	L1	10.8

Report No.:2402V85515E-RF-00A

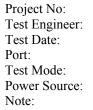


2402V85515E-RF Lane Sun 2024-7-23 N Transmitting AC 120V/60Hz BLE 2Mbps Middle Channel Chain 0



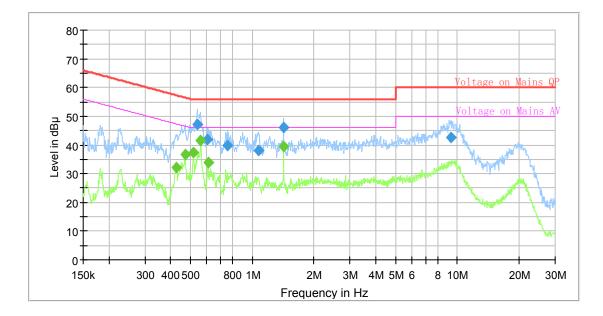
Frequency (MHz)	QuasiPeak (dB µ V)	Average (dB µ V)	Limit (dB µ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.470023		29.98	46.51	16.53	9.000	N	10.7
0.501508		33.10	46.00	12.90	9.000	Ν	10.7
0.535103		37.90	46.00	8.10	9.000	Ν	10.7
0.535103	46.53		56.00	9.47	9.000	Ν	10.7
0.669745	34.54		56.00	21.46	9.000	Ν	10.7
0.690091		24.28	46.00	21.72	9.000	Ν	10.8
0.940160		22.00	46.00	24.00	9.000	Ν	10.8
0.973564	33.33		56.00	22.67	9.000	Ν	10.8
1.510003	40.67		56.00	15.33	9.000	Ν	10.9
1.510003		34.73	46.00	11.27	9.000	N	10.9
4.615042	29.15		56.00	26.85	9.000	Ν	10.8
9.370364	36.90		60.00	23.10	9.000	N	10.8

Report No.:2402V85515E-RF-00A



Yukin Qiu 2024-8-20 L Transmitting AC 120V/60Hz BLE 2Mbps Middle Channel Chain 1

2402V85515E-RF

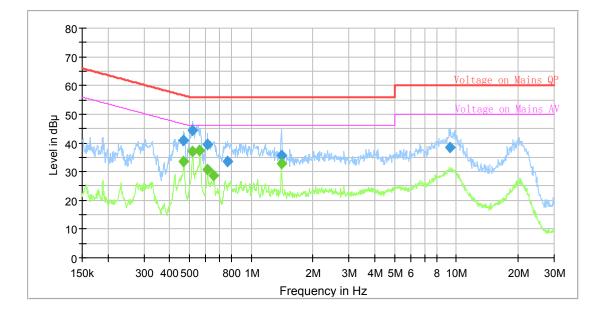


Frequency (MHz)	QuasiPeak (dB µ V)	Average (dB μ V)	Limit (dB µ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.425401		32.20	47.34	15.14	9.000	L1	10.8
0.472373		36.56	46.47	9.91	9.000	L1	10.8
0.516743		37.35	46.00	8.65	9.000	L1	10.8
0.540467	47.17		56.00	8.83	9.000	L1	10.8
0.562468		41.53	46.00	4.47	9.000	L1	10.8
0.606162	41.89		56.00	14.11	9.000	L1	10.8
0.609193		33.72	46.00	12.28	9.000	L1	10.8
0.758685	39.68		56.00	16.32	9.000	L1	10.9
1.070335	38.11		56.00	17.89	9.000	L1	10.8
1.422280	46.23		56.00	9.77	9.000	L1	10.8
1.422280		39.52	46.00	6.48	9.000	L1	10.8
9.277358	42.63		60.00	17.37	9.000	L1	10.8

Report No.:2402V85515E-RF-00A



2402V85515E-RF Yukin Qiu 2024-8-20 N Transmitting AC 120V/60Hz BLE 2Mbps Middle Channel Chain 1



Frequency (MHz)	QuasiPeak (dB µ V)	Average (dB μ V)	Limit (dB µ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.467685		33.38	46.55	13.17	9.000	N	10.8
0.467685	40.70		56.55	15.85	9.000	N	10.8
0.516743		37.04	46.00	8.96	9.000	N	10.7
0.519327	44.44		56.00	11.56	9.000	N	10.7
0.562468		37.27	46.00	8.73	9.000	N	10.7
0.612239	39.61		56.00	16.39	9.000	N	10.7
0.612239		30.87	46.00	15.13	9.000	N	10.7
0.656516		28.79	46.00	17.21	9.000	N	10.7
0.766291	33.65		56.00	22.35	9.000	N	10.8
1.401157	35.51		56.00	20.49	9.000	N	10.9
1.401157		32.81	46.00	13.19	9.000	N	10.9
9.323745	38.27		60.00	21.73	9.000	N	10.8

5.2 Radiation Spurious Emissions

1)9kHz - 1GHz

Serial Number:	20CI-1	Test Date:	2024/7/24
Test Site:	Chamber 10m	Test Mode:	Transmitting
Tester:	Leesin Xiang	Test Result:	Pass

Environmental Conditions:									
	38	ATM Pressure:	99.9						
		Iumidity: 38	Iumidity: 38 Pressure:						

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ЕМСО	Passive Loop Antenna	6512	9706-1206	2023/10/21	2026/10/20
Sunol Sciences	Hybrid Antenna	JB3	A060611-1	2023/9/6	2026/9/5
Narda	Coaxial Attenuator	779-6dB	04269	2023/9/6	2026/9/5
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2023/8/1	2024/7/31
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-04	2023/8/1	2024/7/31
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2023/8/1	2024/7/31
Sonoma	Amplifier	310N	185914	2023/8/1	2024/7/31
R&S	EMI Test Receiver	ESCI	100224	2023/8/18	2024/8/17
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Please refer to the below table and plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to table and plots.

9kHz~30MHz

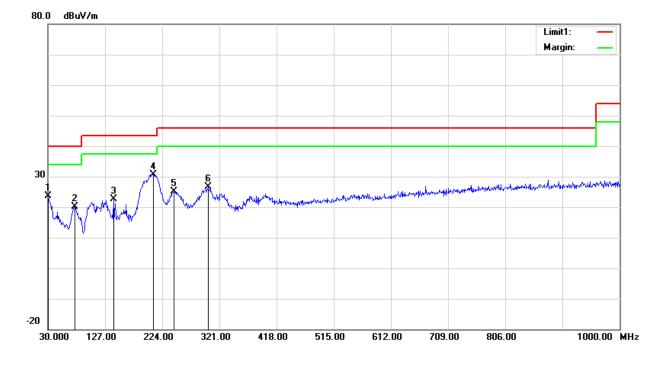
The BLE 2Mbps Middle Channel was tested. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

Report No.:2402V85515E-RF-00A

30MHz-1GHz

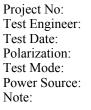
Chain 0:
Project No:
Test Engineer:
Test Date:
Polarization:
Test Mode:
Power Source:
Note:

2402V85515E-RF Leesin Xiang 2024-7-24 Horizontal Transmitting AC 120V/60Hz BLE 2Mbps Middle Channel

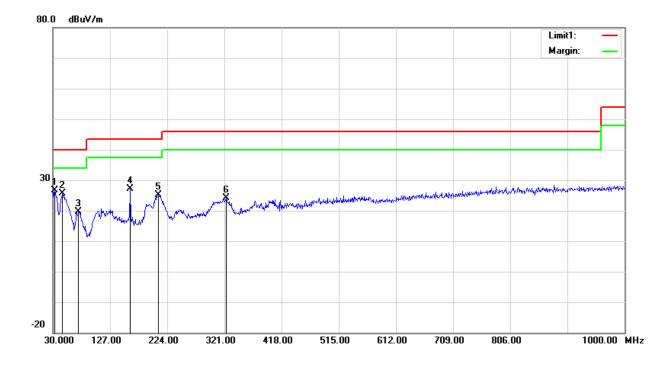


No.	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
	(MHz)	(dBuV)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)
1	30.0000	27.53	peak	-3.80	23.73	40.00	16.27
2	75.5900	36.40	peak	-16.17	20.23	40.00	19.77
3	141.5500	33.29	peak	-10.55	22.74	43.50	20.76
4	209.4500	43.25	peak	-12.50	30.75	43.50	12.75
5	243.4000	36.84	peak	-11.64	25.20	46.00	20.80
6	301.6000	36.02	peak	-9.48	26.54	46.00	19.46

Report No.:2402V85515E-RF-00A

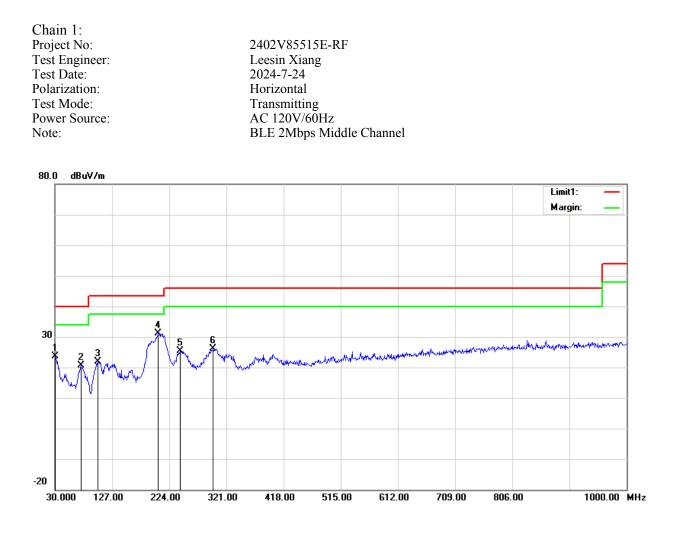


2402V85515E-RF Leesin Xiang 2024-7-24 Vertical Transmitting AC 120V/60Hz BLE 2Mbps Middle Channel



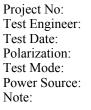
No.	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
	(MHz)	(dBuV)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)
1	32.9100	32.51	peak	-5.91	26.60	40.00	13.40
2	46.4900	40.08	peak	-14.49	25.59	40.00	14.41
3	73.6500	35.76	peak	-16.17	19.59	40.00	20.41
4	160.9500	38.34	peak	-11.21	27.13	43.50	16.37
5	209.4500	37.59	peak	-12.50	25.09	43.50	18.41
6	323.9100	33.22	peak	-8.99	24.23	46.00	21.77

Report No.:2402V85515E-RF-00A

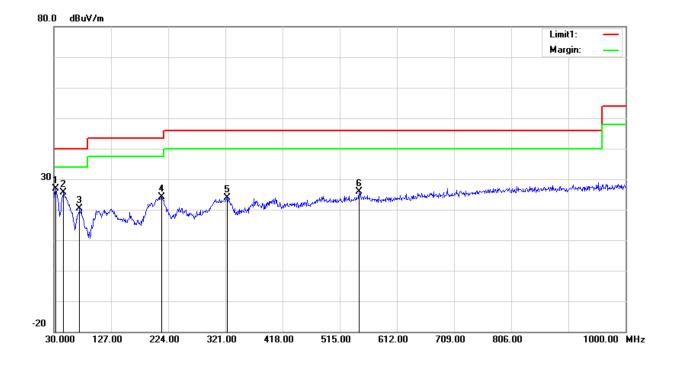


No.	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
	(MHz)	(dBuV)		dB/m	(dBuV/m)	(dBuV/m)	(dB)
1	30.0000	27.32	peak	-3.80	23.52	40.00	16.48
2	74.6200	36.80	peak	-16.14	20.66	40.00	19.34
3	102.7500	35.41	peak	-13.56	21.85	43.50	21.65
4	205.5700	43.25	peak	-12.11	31.14	43.50	12.36
5	242.4300	37.04	peak	-11.67	25.37	46.00	20.63
6	298.6900	35.59	peak	-9.53	26.06	46.00	19.94

Report No.:2402V85515E-RF-00A



2402V85515E-RF Leesin Xiang 2024-7-24 Vertical Transmitting AC 120V/60Hz BLE 2Mbps Middle Channel



No.	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
	(MHz)	(dBuV)		dB/m	(dBuV/m)	(dBuV/m)	(dB)
1	32.9100	32.81	peak	-5.91	26.90	40.00	13.10
2	46.4900	40.22	peak	-14.49	25.73	40.00	14.27
3	73.6500	36.45	peak	-16.17	20.28	40.00	19.72
4	212.3600	36.68	peak	-12.55	24.13	43.50	19.37
5	323.9100	32.92	peak	-8.99	23.93	46.00	22.07
6	547.9800	29.45	peak	-3.47	25.98	46.00	20.02

2) 1-25GHz:

Serial Number:	20CI-1	Test Date:	2024/7/24
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Leo Xiao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	27.2	Relative Humidity: (%)	36	ATM Pressure:	99.9
(0)		(70)		(kPa)	

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
R&S	Spectrum Analyzer	FSV40	101944	2023/10/18	2024/10/17
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J- 10M	20231117004 #0001	2023/11/17	2024/11/16
Audix	Test Software	E3	191218 (V9)	N/A	N/A
AH	Preamplifier	PAM-0118P	469	2023/8/19	2024/8/18
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-03 1304	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J- 6M-A	20231208001 #0001	2023/12/11	2024/12/10
AH	Preamplifier	PAM-1840VH	191	2023/9/7	2024/9/6
E-Microwave	Band Rejection Filter	OBSF-2400-2483.5-S	OE01601525	2024/2/21	2025/2/20
Micro-tronics	High Pass Filter	HPM50111	G217	2023/12/1	2024/11/30

* Statement of Traceability: Bay Area Compliance Laboratories Corp.(Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Please refer to the below table and plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Chair	1 O
BLE	1M

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBµV	PK/QP/AV	H/V	dB/m	dBµV/m	dBµV/m	dB
		L	ow Channel	2402	MHz		
2390.00	26.50	РК	Н	28.57	55.07	74.00	18.93
2390.00	16.33	AV	Н	28.57	44.90	54.00	9.10
2390.00	26.19	РК	V	28.57	54.76	74.00	19.24
2390.00	16.39	AV	V	28.57	44.96	54.00	9.04
4804.00	49.19	РК	Н	-10.12	39.07	74.00	34.93
4804.00	40.38	AV	Н	-10.12	30.26	54.00	23.74
4804.00	48.44	РК	V	-10.12	38.32	74.00	35.68
4804.00	39.76	AV	V	-10.12	29.64	54.00	24.36
7206.00	47.29	РК	Н	-5.52	41.77	74.00	32.23
7206.00	38.27	AV	Н	-5.52	32.75	54.00	21.25
7206.00	46.77	РК	V	-5.52	41.25	74.00	32.75
7206.00	38.15	AV	V	-5.52	32.63	54.00	21.37
		Mid	dle Channel	2440	MHz		
4880.00	48.22	РК	Н	-10.01	38.21	74.00	35.79
4880.00	39.37	AV	Н	-10.01	29.36	54.00	24.64
4880.00	48.13	РК	V	-10.01	38.12	74.00	35.88
4880.00	39.26	AV	V	-10.01	29.25	54.00	24.75
7320.00	47.56	РК	Н	-5.02	42.54	74.00	31.46
7320.00	38.56	AV	Н	-5.02	33.54	54.00	20.46
7320.00	47.44	РК	V	-5.02	42.42	74.00	31.58
7320.00	38.68	AV	V	-5.02	33.66	54.00	20.34
High C		igh Channel	2480	MHz			
2483.50	27.79	РК	Н	28.95	56.74	74.00	17.26
2483.50	17.74	AV	Н	28.95	46.69	54.00	7.31
2483.50	26.63	РК	V	28.95	55.58	74.00	18.42
2483.50	16.70	AV	V	28.95	45.65	54.00	8.35
4960.00	49.13	РК	Н	-9.98	39.15	74.00	34.85
4960.00	39.21	AV	Н	-9.98	29.23	54.00	24.77
4960.00	49.17	РК	V	-9.98	39.19	74.00	34.81
4960.00	39.95	AV	V	-9.98	29.97	54.00	24.03
7440.00	49.86	РК	Н	-4.51	45.35	74.00	28.65
7440.00	39.39	AV	Н	-4.51	34.88	54.00	19.12
7440.00	48.65	РК	V	-4.51	44.14	74.00	29.86
7440.00	38.26	AV	V	-4.51	33.75	54.00	20.25

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBµV	PK/QP/AV	H/V	dB/m	dBµV/m	dBµV/m	dB
		Lo	w Channel	2404	MHz		
2390.00	26.55	РК	Н	28.57	55.12	74.00	18.88
2390.00	16.85	AV	Н	28.57	45.42	54.00	8.58
2390.00	27.34	PK	V	28.57	55.91	74.00	18.09
2390.00	17.56	AV	V	28.57	46.13	54.00	7.87
4808.00	48.59	РК	Н	-10.11	38.48	74.00	35.52
4808.00	39.56	AV	Н	-10.11	29.45	54.00	24.55
4808.00	48.51	РК	V	-10.11	38.40	74.00	35.60
4808.00	39.50	AV	V	-10.11	29.39	54.00	24.61
7212.00	47.74	РК	Н	-5.48	42.26	74.00	31.74
7212.00	38.40	AV	Н	-5.48	32.92	54.00	21.08
7212.00	48.06	РК	V	-5.48	42.58	74.00	31.42
7212.00	38.82	AV	V	-5.48	33.34	54.00	20.66
		Midd	le Channel	2440	MHz		
4880.00	48.40	РК	Н	-10.01	38.39	74.00	35.61
4880.00	39.61	AV	Н	-10.01	29.60	54.00	24.40
4880.00	48.64	РК	V	-10.01	38.63	74.00	35.37
4880.00	38.70	AV	V	-10.01	28.69	54.00	25.31
7320.00	47.33	РК	Н	-5.02	42.31	74.00	31.69
7320.00	38.63	AV	Н	-5.02	33.61	54.00	20.39
7320.00	48.65	РК	V	-5.02	43.63	74.00	30.37
7320.00	38.72	AV	V	-5.02	33.70	54.00	20.30
		Hig	h Channel	2478	MHz		
2483.50	26.33	РК	Н	28.95	55.28	74.00	18.72
2483.50	16.75	AV	Н	28.95	45.70	54.00	8.30
2483.50	27.66	РК	V	28.95	56.61	74.00	17.39
2483.50	17.42	AV	V	28.95	46.37	54.00	7.63
4956.00	48.33	РК	Н	-9.99	38.34	74.00	35.66
4956.00	39.63	AV	Н	-9.99	29.64	54.00	24.36
4956.00	48.63	РК	V	-9.99	38.64	74.00	35.36
4956.00	39.38	AV	V	-9.99	29.39	54.00	24.61
7434.00	48.72	РК	Н	-4.53	44.19	74.00	29.81
7434.00	38.81	AV	Н	-4.53	34.28	54.00	19.72
7434.00	48.36	РК	V	-4.53	43.83	74.00	30.17
7434.00	38.27	AV	V	-4.53	33.74	54.00	20.26

Chair	1 1
BLE	1M

BLE IM							
Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBµV	PK/QP/AV	H/V	dB/m	dBµV/m	dBµV/m	dB
		Lo	w Channel	2402	MHz		
2390.00	27.84	РК	Н	28.57	56.41	74.00	17.59
2390.00	17.69	AV	Н	28.57	46.26	54.00	7.74
2390.00	26.52	РК	V	28.57	55.09	74.00	18.91
2390.00	16.38	AV	V	28.57	44.95	54.00	9.05
4804.00	49.21	РК	Н	-10.12	39.09	74.00	34.91
4804.00	39.72	AV	Н	-10.12	29.60	54.00	24.40
4804.00	50.44	РК	V	-10.12	40.32	74.00	33.68
4804.00	40.70	AV	V	-10.12	30.58	54.00	23.42
7206.00	48.39	РК	Н	-5.52	42.87	74.00	31.13
7206.00	38.36	AV	Н	-5.52	32.84	54.00	21.16
7206.00	48.06	РК	V	-5.52	42.54	74.00	31.46
7206.00	38.14	AV	V	-5.52	32.62	54.00	21.38
		Midd	le Channel	2440	MHz		
4880.00	48.68	PK	Н	-10.01	38.67	74.00	35.33
4880.00	38.43	AV	Н	-10.01	28.42	54.00	25.58
4880.00	49.35	PK	V	-10.01	39.34	74.00	34.66
4880.00	40.56	AV	V	-10.01	30.55	54.00	23.45
7320.00	48.64	PK	Н	-5.02	43.62	74.00	30.38
7320.00	38.00	AV	Н	-5.02	32.98	54.00	21.02
7320.00	48.30	РК	V	-5.02	43.28	74.00	30.72
7320.00	38.22	AV	V	-5.02	33.20	54.00	20.80
High Channel				2480	MHz		
2483.50	26.55	РК	Н	28.95	55.50	74.00	18.50
2483.50	16.70	AV	Н	28.95	45.65	54.00	8.35
2483.50	27.53	РК	V	28.95	56.48	74.00	17.52
2483.50	17.52	AV	V	28.95	46.47	54.00	7.53
4960.00	48.85	РК	Н	-9.98	38.87	74.00	35.13
4960.00	39.18	AV	Н	-9.98	29.20	54.00	24.80
4960.00	49.09	РК	V	-9.98	39.11	74.00	34.89
4960.00	40.87	AV	V	-9.98	30.89	54.00	23.11
7440.00	48.78	РК	Н	-4.51	44.27	74.00	29.73
7440.00	38.39	AV	Н	-4.51	33.88	54.00	20.12
7440.00	48.52	РК	V	-4.51	44.01	74.00	29.99
7440.00	38.71	AV	V	-4.51	34.20	54.00	19.80

FrequencyReadingDetectorPolarFactorCorrected AmplitudeLimitMarginMHzdBy/wPK/QP/AVH/VdB/mdBy/wdBy/wdB2390.0026.13PKH28.5754.7074.0019.302390.0016.41AVH28.5744.9854.009.022390.0016.49AVV28.5745.0654.008.944808.0016.49AVV28.5745.0654.008.944808.0016.49AVV28.5745.0654.0024.514808.0039.60AVH-10.1138.3474.0035.664808.0048.08PKV-10.1132.9774.0036.037212.0047.41PKH-5.4841.9374.0032.077212.0038.20AVH-5.4832.7254.0021.287212.0038.23AVV-5.4832.7554.0021.287212.0038.23AVV-5.4832.7554.0035.274880.0049.57PKH-10.0138.7374.0035.274880.0049.57AVH-5.0233.8274.0035.614880.0049.14PKH-10.0130.1054.0023.907320.0048.41PKH-5.0233.8254.0023.917320.0038.84 </th <th>DLE ZIVI</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	DLE ZIVI							
Low Channel2404MHz2390.0026.13PKH28.5754.7074.0019.302390.0016.41AVH28.5744.9854.009.022390.0026.50PKV28.5745.0654.008.942390.0016.49AVV28.5745.0654.008.944808.0048.45PKH-10.1138.3474.0035.664808.0039.60AVH-10.1129.4954.0024.514808.0048.08PKV-10.1137.9774.0036.034808.0039.31AVV-10.1129.2054.0021.287212.0047.41PKH-5.4841.9374.0032.077212.0038.20AVH-5.4832.7254.0021.287212.0038.23AVV-5.4832.7554.0021.25Middle Channel24404880.0048.74PKH-10.0138.7374.0035.274880.0049.24PKV-10.0139.2374.0034.774880.0049.24PKV-10.0139.2374.0031.467320.0038.84AVH-5.0233.2554.0020.187320.0038.27AVV-5.0233.2554.0020.187320.0038.27AVV-5.02 </th <th>Frequency</th> <th>Reading</th> <th>Detector</th> <th>Polar</th> <th>Factor</th> <th></th> <th>Limit</th> <th>Margin</th>	Frequency	Reading	Detector	Polar	Factor		Limit	Margin
2390.00 26.13 PK H 28.57 54.70 74.00 19.30 2390.00 16.41 AV H 28.57 44.98 54.00 9.02 2390.00 26.50 PK V 28.57 55.07 74.00 18.93 2390.00 16.49 AV V 28.57 45.06 54.00 8.94 4808.00 48.45 PK H -10.11 29.49 54.00 24.51 4808.00 39.60 AV H -10.11 29.20 54.00 24.51 4808.00 39.31 AV V -10.11 29.20 54.00 24.80 7212.00 47.41 PK H -5.48 41.93 74.00 32.07 7212.00 38.20 AV V -5.48 41.80 74.00 32.20 7212.00 38.23 AV V -5.48 32.75 54.00 21.25 4880.00 49.24	MHz	dBµV	PK/QP/AV	H/V	dB/m	dBµV/m	dBµV/m	dB
2390.00 16.41 AV H 28.57 44.98 54.00 9.02 2390.00 26.50 PK V 28.57 55.07 74.00 18.93 2390.00 16.49 AV V 28.57 45.06 54.00 8.94 4808.00 48.45 PK H -10.11 29.49 54.00 24.51 4808.00 39.60 AV H -10.11 29.49 54.00 24.51 4808.00 39.31 AV V -10.11 29.49 54.00 24.80 7212.00 47.41 PK H -5.48 41.93 74.00 32.07 7212.00 38.20 AV H -5.48 32.72 54.00 21.28 7212.00 38.23 AV V -5.48 32.75 54.00 21.25 4880.00 48.74 PK H -10.01 38.73 74.00 35.27 4880.00 49.24			Lo	w Channel	2404	MHz		
2390.00 26.50 PK V 28.57 55.07 74.00 18.93 2390.00 16.49 AV V 28.57 45.06 54.00 8.94 4808.00 48.45 PK H -10.11 38.34 74.00 35.66 4808.00 39.60 AV H -10.11 29.49 54.00 24.51 4808.00 48.08 PK V -10.11 37.97 74.00 36.03 4808.00 47.41 PK H -5.48 41.93 74.00 32.07 7212.00 47.28 PK V -5.48 32.72 54.00 21.28 7212.00 38.23 AV V -5.48 32.75 54.00 21.25 Middle Channel 2440 MHz 4880.00 48.74 PK H -10.01 38.73 74.00 35.27 4880.00 49.24 PK V -10.01 30.10 <t< td=""><td>2390.00</td><td>26.13</td><td>РК</td><td>Н</td><td>28.57</td><td>54.70</td><td>74.00</td><td>19.30</td></t<>	2390.00	26.13	РК	Н	28.57	54.70	74.00	19.30
2390.00 16.49 AV V 28.57 45.06 54.00 8.94 4808.00 48.45 PK H -10.11 38.34 74.00 35.66 4808.00 39.60 AV H -10.11 29.49 54.00 24.51 4808.00 48.08 PK V -10.11 37.97 74.00 36.03 4808.00 39.31 AV V -10.11 29.20 54.00 24.80 7212.00 47.41 PK H -5.48 32.72 54.00 21.28 7212.00 47.28 PK V -5.48 32.75 54.00 21.25 7212.00 38.23 AV V -5.48 32.75 54.00 21.25 74880.00 48.74 PK H -10.01 38.73 74.00 35.27 4880.00 49.24 PK V -10.01 30.10 54.00 23.90 7320.00 47.56	2390.00	16.41	AV	Н	28.57	44.98	54.00	9.02
4808.00 48.45 PK H -10.11 38.34 74.00 35.66 4808.00 39.60 AV H -10.11 29.49 54.00 24.51 4808.00 48.08 PK V -10.11 37.97 74.00 36.03 4808.00 39.31 AV V -10.11 29.20 54.00 24.80 7212.00 47.41 PK H -5.48 41.93 74.00 32.07 7212.00 38.20 AV H -5.48 32.72 54.00 21.28 7212.00 38.23 AV V -5.48 32.75 54.00 21.25 7212.00 38.23 AV V -5.48 32.75 54.00 21.25 7212.00 38.23 AV V -10.01 38.73 74.00 35.27 4880.00 48.74 PK H -10.01 39.23 74.00 34.77 4880.00 49.24	2390.00	26.50	РК	V	28.57	55.07	74.00	18.93
4808.00 39.60 AV H -10.11 29.49 54.00 24.51 4808.00 48.08 PK V -10.11 37.97 74.00 36.03 4808.00 39.31 AV V -10.11 29.20 54.00 24.80 7212.00 47.41 PK H -5.48 41.93 74.00 32.07 7212.00 38.20 AV H -5.48 32.72 54.00 21.28 7212.00 38.23 AV V -5.48 32.75 54.00 21.25 7212.00 38.23 AV V -5.48 32.75 54.00 21.25 7212.00 38.23 AV V -5.48 32.75 54.00 21.25 7212.00 38.23 AV H -10.01 38.73 74.00 35.27 4880.00 48.74 PK H -10.01 39.23 74.00 34.77 4880.00 49.24	2390.00	16.49	AV	V	28.57	45.06	54.00	8.94
4808.00 48.08 PK V -10.11 37.97 74.00 36.03 4808.00 39.31 AV V -10.11 29.20 54.00 24.80 7212.00 47.41 PK H -5.48 41.93 74.00 32.07 7212.00 38.20 AV H -5.48 32.72 54.00 21.28 7212.00 47.28 PK V -5.48 32.75 54.00 21.25 7212.00 38.23 AV V -5.48 32.75 54.00 21.25 Middle Channel 2440 MHz - - 38.73 74.00 35.27 4880.00 48.74 PK H -10.01 38.73 74.00 34.77 4880.00 49.24 PK V -10.01 30.10 54.00 23.90 7320.00 47.56 PK H -5.02 43.39 74.00 31.46 7320.00 38.27	4808.00	48.45	РК	Н	-10.11	38.34	74.00	35.66
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	4808.00	39.60	AV	Н	-10.11	29.49	54.00	24.51
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	4808.00	48.08	РК	V	-10.11	37.97	74.00	36.03
7212.00 38.20 AV H -5.48 32.72 54.00 21.28 7212.00 47.28 PK V -5.48 41.80 74.00 32.20 7212.00 38.23 AV V -5.48 32.75 54.00 21.25 Middle Channel 2440 MHz 4880.00 48.74 PK H -10.01 38.73 74.00 35.27 4880.00 39.57 AV H -10.01 39.23 74.00 34.77 4880.00 49.24 PK V -10.01 39.23 74.00 34.77 4880.00 40.11 AV V -10.01 30.10 54.00 23.90 7320.00 47.56 PK H -5.02 43.39 74.00 31.46 7320.00 38.84 AV H -5.02 43.39 74.00 20.18 7320.00 38.27 AV V -5.02 33.25 54.00	4808.00	39.31	AV	V	-10.11	29.20	54.00	24.80
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	7212.00	47.41	РК	Н	-5.48	41.93	74.00	32.07
7212.00 38.23 AV V -5.48 32.75 54.00 21.25 Middle Channel 2440 MHz 4880.00 48.74 PK H -10.01 38.73 74.00 35.27 4880.00 39.57 AV H -10.01 29.56 54.00 24.44 4880.00 49.24 PK V -10.01 39.23 74.00 34.77 4880.00 49.24 PK V -10.01 39.23 74.00 34.77 4880.00 40.11 AV V -10.01 30.10 54.00 23.90 7320.00 47.56 PK H -5.02 42.54 74.00 31.46 7320.00 38.84 AV H -5.02 33.82 54.00 20.18 7320.00 38.27 AV V -5.02 33.25 54.00 20.75 High Channel 2478 MHz 2483.50 17.24 AV H	7212.00	38.20	AV	Н	-5.48	32.72	54.00	21.28
Middle Channel 2440 MHz 4880.00 48.74 PK H -10.01 38.73 74.00 35.27 4880.00 39.57 AV H -10.01 29.56 54.00 24.44 4880.00 49.24 PK V -10.01 39.23 74.00 34.77 4880.00 40.11 AV V -10.01 30.10 54.00 23.90 7320.00 47.56 PK H -5.02 42.54 74.00 31.46 7320.00 38.84 AV H -5.02 33.82 54.00 20.18 7320.00 38.84 AV H -5.02 33.82 54.00 20.75 7320.00 38.27 AV V -5.02 33.25 54.00 20.75 7320.00 38.27 AV V -5.02 33.25 54.00 20.75 2483.50 27.54 PK H 28.95 56.49 74.00	7212.00	47.28	РК	V	-5.48	41.80	74.00	32.20
4880.00 48.74 PK H -10.01 38.73 74.00 35.27 4880.00 39.57 AV H -10.01 29.56 54.00 24.44 4880.00 49.24 PK V -10.01 39.23 74.00 34.77 4880.00 40.11 AV V -10.01 30.10 54.00 23.90 7320.00 47.56 PK H -5.02 42.54 74.00 31.46 7320.00 38.84 AV H -5.02 33.82 54.00 20.18 7320.00 38.27 AV H -5.02 33.25 54.00 20.75 High Channel 2478 MHz MHz 2483.50 27.54 PK H 28.95 56.49 74.00 17.51 2483.50 17.24 AV H 28.95 55.34 74.00 18.66 2483.50 16.37 AV V 28.95 45.32 54.00	7212.00	38.23	AV	V	-5.48	32.75	54.00	21.25
4880.00 39.57 AV H -10.01 29.56 54.00 24.44 4880.00 49.24 PK V -10.01 39.23 74.00 34.77 4880.00 40.11 AV V -10.01 30.10 54.00 23.90 7320.00 47.56 PK H -5.02 42.54 74.00 31.46 7320.00 38.84 AV H -5.02 33.82 54.00 20.18 7320.00 48.41 PK V -5.02 33.39 74.00 30.61 7320.00 38.27 AV V -5.02 33.25 54.00 20.75 High Channel 2478 MHz 2483.50 27.54 PK H 28.95 56.49 74.00 17.51 2483.50 16.37 AV V 28.95 45.32 54.00 7.81 2483.50 16.37 AV V 28.95 45.32 54			Midd	le Channel	2440	MHz		
4880.00 49.24 PK V -10.01 39.23 74.00 34.77 4880.00 40.11 AV V -10.01 30.10 54.00 23.90 7320.00 47.56 PK H -5.02 42.54 74.00 31.46 7320.00 38.84 AV H -5.02 33.82 54.00 20.18 7320.00 38.84 AV H -5.02 33.82 54.00 20.18 7320.00 48.41 PK V -5.02 33.25 54.00 20.75 High Channel 2478 MHz 2483.50 27.54 PK H 28.95 56.49 74.00 17.51 2483.50 17.24 AV H 28.95 46.19 54.00 7.81 2483.50 16.37 AV V 28.95 45.32 54.00 8.68 4956.00 49.19 PK H -9.99 39.20 74.0	4880.00	48.74	РК	Н	-10.01	38.73	74.00	35.27
4880.00 40.11 AV V -10.01 30.10 54.00 23.90 7320.00 47.56 PK H -5.02 42.54 74.00 31.46 7320.00 38.84 AV H -5.02 43.39 74.00 30.61 7320.00 48.41 PK V -5.02 43.39 74.00 30.61 7320.00 48.41 PK V -5.02 33.25 54.00 20.75 7320.00 38.27 AV V -5.02 33.25 54.00 20.75 High Channel 2478 MHz 2483.50 27.54 PK H 28.95 56.49 74.00 17.51 2483.50 17.24 AV H 28.95 46.19 54.00 7.81 2483.50 16.37 AV V 28.95 45.32 54.00 8.68 4956.00 49.19 PK H -9.99 30.90 54.00	4880.00	39.57	AV	Н	-10.01	29.56	54.00	24.44
7320.00 47.56 PK H -5.02 42.54 74.00 31.46 7320.00 38.84 AV H -5.02 33.82 54.00 20.18 7320.00 48.41 PK V -5.02 43.39 74.00 30.61 7320.00 48.41 PK V -5.02 33.25 54.00 20.75 High Channel 2478 MHz 2483.50 27.54 PK H 28.95 56.49 74.00 17.51 2483.50 17.24 AV H 28.95 56.34 74.00 18.66 2483.50 16.37 AV V 28.95 55.34 74.00 18.66 2483.50 16.37 AV V 28.95 45.32 54.00 8.68 4956.00 49.19 PK H -9.99 39.20 74.00 34.80 4956.00 40.89 AV H -9.99 30.90 54.00	4880.00	49.24	РК	V	-10.01	39.23	74.00	34.77
7320.0038.84AVH-5.0233.8254.0020.187320.0048.41PKV-5.0243.3974.0030.617320.0038.27AVV-5.0233.2554.0020.75High Channel2478MHz2483.5027.54PKH28.9556.4974.0017.512483.5017.24AVH28.9546.1954.007.812483.5026.39PKV28.9555.3474.0018.662483.5016.37AVV28.9545.3254.008.684956.0049.19PKH-9.9930.9054.0023.104956.0040.89AVH-9.9930.5154.0023.497434.0048.18PKH-4.5343.6574.0030.357434.0048.35PKV-9.9930.7854.0020.227434.0048.35PKV-4.5343.8274.0030.18	4880.00	40.11	AV	V	-10.01	30.10	54.00	23.90
7320.0048.41PKV-5.0243.3974.0030.617320.0038.27AVV-5.0233.2554.0020.75High Channel2478MHz2483.5027.54PKH28.9556.4974.0017.512483.5017.24AVH28.9546.1954.007.812483.5026.39PKV28.9555.3474.0018.662483.5016.37AVV28.9545.3254.008.684956.0049.19PKH-9.9939.2074.0034.804956.0040.89AVH-9.9930.9054.0023.104956.0040.50AVV-9.9930.5154.0023.497434.0048.18PKH-4.5343.6574.0030.357434.0048.35PKV-4.5343.8274.0030.18	7320.00	47.56	РК	Н	-5.02	42.54	74.00	31.46
7320.00 38.27 AV V -5.02 33.25 54.00 20.75 High Channel 2478 MHz 2483.50 27.54 PK H 28.95 56.49 74.00 17.51 2483.50 17.24 AV H 28.95 46.19 54.00 7.81 2483.50 26.39 PK V 28.95 55.34 74.00 18.66 2483.50 16.37 AV V 28.95 45.32 54.00 8.68 4956.00 49.19 PK H -9.99 39.20 74.00 34.80 4956.00 40.89 AV H -9.99 30.90 54.00 23.10 4956.00 49.04 PK V -9.99 30.51 54.00 23.49 4956.00 40.50 AV V -9.99 30.51 54.00 23.49 7434.00 48.18 PK H -4.53 33.78 54.00	7320.00	38.84	AV	Н	-5.02	33.82	54.00	20.18
High Channel2478MHz2483.5027.54PKH28.9556.4974.0017.512483.5017.24AVH28.9546.1954.007.812483.5026.39PKV28.9555.3474.0018.662483.5016.37AVV28.9545.3254.008.684956.0049.19PKH-9.9939.2074.0034.804956.0040.89AVH-9.9930.9054.0023.104956.0049.04PKV-9.9930.5154.0023.494956.0040.50AVV-9.9930.5154.0023.497434.0048.18PKH-4.5333.7854.0020.227434.0048.35PKV-4.5343.8274.0030.18	7320.00	48.41	РК	V	-5.02	43.39	74.00	30.61
2483.5027.54PKH28.9556.4974.0017.512483.5017.24AVH28.9546.1954.007.812483.5026.39PKV28.9555.3474.0018.662483.5016.37AVV28.9545.3254.008.684956.0049.19PKH-9.9939.2074.0034.804956.0040.89AVH-9.9930.9054.0023.104956.0049.04PKV-9.9930.5154.0023.494956.0040.50AVV-9.9930.5154.0023.497434.0048.18PKH-4.5343.6574.0030.357434.0048.35PKV-4.5343.8274.0030.18	7320.00	38.27	AV	V	-5.02	33.25	54.00	20.75
2483.5017.24AVH28.9546.1954.007.812483.5026.39PKV28.9555.3474.0018.662483.5016.37AVV28.9545.3254.008.684956.0049.19PKH-9.9939.2074.0034.804956.0040.89AVH-9.9930.9054.0023.104956.0049.04PKV-9.9939.0574.0034.954956.0040.50AVV-9.9930.5154.0023.497434.0048.18PKH-4.5343.6574.0030.357434.0038.31AVH-4.5343.8274.0030.18			Hig	h Channel	2478	MHz		
2483.5026.39PKV28.9555.3474.0018.662483.5016.37AVV28.9545.3254.008.684956.0049.19PKH-9.9939.2074.0034.804956.0040.89AVH-9.9930.9054.0023.104956.0049.04PKV-9.9939.0574.0034.954956.0040.50AVV-9.9930.5154.0023.497434.0048.18PKH-4.5343.6574.0030.357434.0038.31AVH-4.5333.7854.0020.227434.0048.35PKV-4.5343.8274.0030.18	2483.50	27.54	РК	Н	28.95	56.49	74.00	17.51
2483.5016.37AVV28.9545.3254.008.684956.0049.19PKH-9.9939.2074.0034.804956.0040.89AVH-9.9930.9054.0023.104956.0049.04PKV-9.9939.0574.0034.954956.0040.50AVV-9.9930.5154.0023.497434.0048.18PKH-4.5343.6574.0030.357434.0038.31AVH-4.5333.7854.0020.227434.0048.35PKV-4.5343.8274.0030.18	2483.50	17.24	AV	Н	28.95	46.19	54.00	7.81
4956.0049.19PKH-9.9939.2074.0034.804956.0040.89AVH-9.9930.9054.0023.104956.0049.04PKV-9.9930.9054.0023.104956.0040.50AVV-9.9930.5154.0023.497434.0048.18PKH-4.5343.6574.0030.357434.0038.31AVH-4.5333.7854.0020.227434.0048.35PKV-4.5343.8274.0030.18	2483.50	26.39	РК	V	28.95	55.34	74.00	18.66
4956.0040.89AVH-9.9930.9054.0023.104956.0049.04PKV-9.9939.0574.0034.954956.0040.50AVV-9.9930.5154.0023.497434.0048.18PKH-4.5343.6574.0030.357434.0038.31AVH-4.5333.7854.0020.227434.0048.35PKV-4.5343.8274.0030.18	2483.50	16.37	AV	V	28.95	45.32	54.00	8.68
4956.0049.04PKV-9.9939.0574.0034.954956.0040.50AVV-9.9930.5154.0023.497434.0048.18PKH-4.5343.6574.0030.357434.0038.31AVH-4.5333.7854.0020.227434.0048.35PKV-4.5343.8274.0030.18	4956.00	49.19	PK	Н	-9.99	39.20	74.00	34.80
4956.0040.50AVV-9.9930.5154.0023.497434.0048.18PKH-4.5343.6574.0030.357434.0038.31AVH-4.5333.7854.0020.227434.0048.35PKV-4.5343.8274.0030.18	4956.00	40.89	AV	Н	-9.99	30.90	54.00	23.10
7434.0048.18PKH-4.5343.6574.0030.357434.0038.31AVH-4.5333.7854.0020.227434.0048.35PKV-4.5343.8274.0030.18	4956.00	49.04	PK	V	-9.99	39.05	74.00	34.95
7434.00 38.31 AV H -4.53 33.78 54.00 20.22 7434.00 48.35 PK V -4.53 43.82 74.00 30.18	4956.00	40.50	AV	V	-9.99	30.51	54.00	23.49
7434.00 48.35 PK V -4.53 43.82 74.00 30.18	7434.00	48.18	PK	Н	-4.53	43.65	74.00	30.35
	7434.00	38.31	AV	Н	-4.53	33.78	54.00	20.22
7434.00 38.28 AV V -4.53 33.75 54.00 20.25	7434.00	48.35	PK	V	-4.53	43.82	74.00	30.18
	7434.00	38.28	AV	V	-4.53	33.75	54.00	20.25

Date: 2024-07-24

PH

Detector

Peak Average

Date: 2024-07-24

Detector

Peak Average Peak Average

15600

Margin (dB)

29.86 19.45

Result (dBµV/m)

44.14 33.75 54.55 41.54

Frequency (MHz)

7440.00 7440.00 17990.40 17990.40

Reading (dBµV)

48.65 38.26 46.49 33.48

Factor (dB/m)

-4.51 -4.51 8.06 8.06

Limit (dBµV/m)

74.00 54.00 74.00 54.00

Margin (dB)

34.81 24.03

74.00 54.00

BLE 1Mbps, High Channel, Chain 0, Horizontal **BLE 1Mbps, High Channel, Chain 0, Vertical** Project No.: 2402V85515E-RF Polarization: Horizontal Test Mode: Transmitting Note: BLE 1M_high channel 2480MHz Chain0 Serial No.: 20CI-1 Tester: Leo Xiao Project No.: 2402V85515E-RF Polarization: Vertical Test Mode: Transmitting Note: BLE 1M_high channel 2480MHz Chain0 Serial No.: 20CI-1 Tester: Leo Xiao 100 Level (dP Date: 2024-07-24 100 Level (dF Fundamental test with Band Fundamental test with Band 90.0 90.0 Rejection filter Rejection filter 80.0 80.0 70.0 70.0 60.0 60.0 50.0 50.0 40.0 40. 30.0 30.0 3000 3000 iency (MHz)). Frequency (MHz) Frequency (MHz) Frequency (MHz) Reading (dBμV) Result (dBµV/m) Limit (dBµV/m) Detector Reading (dBµV) Result (dBµV/m) Limit (dBµV/m) No. Factor (dB/m) Margin (dB) Factor (dB/m) No. 4960.00 4960.00 49.13 39.21 -9.98 -9.98 39.15 29.23 74.00 54.00 34.85 24.77 Peak Average 4960.00 4960.00 49.17 39.95 -9.98 -9.98 39.19 29.97 1 2 Project No.: 2402V85515E-RF Polarization: Horizontal Test Mode: Transmitting Note: BLE IM_high channel 2480MHz Chain0 Project No.: 2402V85515E-RF Polarization: Vertical Test Mode: Transmitting Note: BLE 1M_high channel 2480MHz Chain0 Serial No.: 20CI-1 Tester: Leo Xiao Serial No.: 20CI-1 Tester: Leo Xiao Date: 2024-07-24 90.0 90. 80.0 80.0 70.0 70.0 60.0 60.0 50.0 50.0 40.0 40. 30.0 30.0 10800. 13200. Frequency (MHz) 15600 10800. 13200. Frequency (MHz)

180

Detector

Peak Average Peak Average

Worst Channel Test plots:



Result (dBµV/m)

45.35 34.88 54.99 41.97

Reading (dBμV)

49.86 39.39 46.86 33.84

Factor (dB/m)

-4.51 -4.51 8.13 8.13

Frequency (MHz)

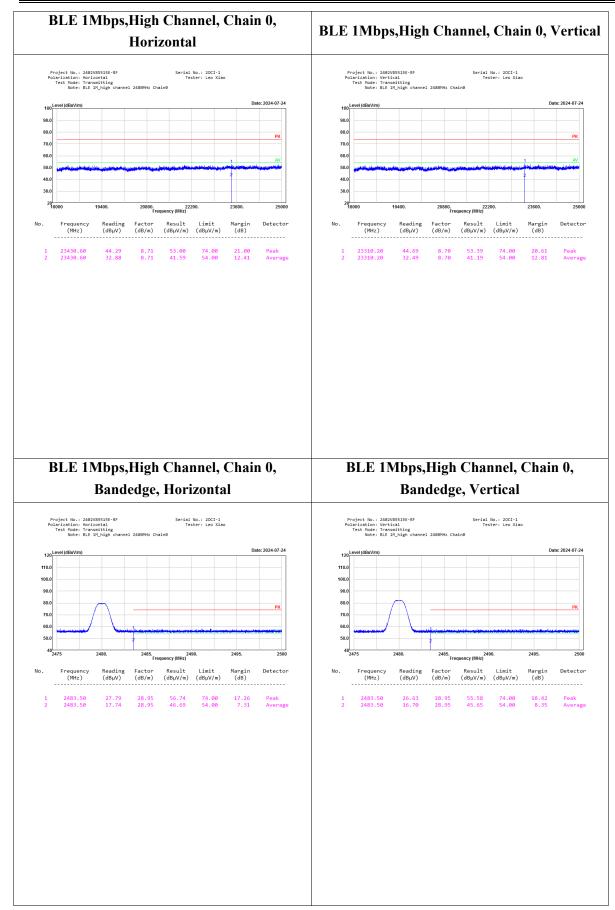
7440.00 7440.00 8000.00 8000.00

Limit (dBµV/m)

74.00 54.00 74.00 54.00

Margin (dB)

28.65 19.12 19.01 12.03



5.3 6dB Emission Bandwidth

Serial No.:	2OCI-2	Test Date:	2024/07/26~2024/07/31
Test Site:	RF	Test Mode:	Transmitting
Tester:	Roy Xiao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	25.9-26.5	Relative Humidity: (%)	47-57	ATM Pressure: (kPa)	98.6-100.8
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Test Equipment List and Details:

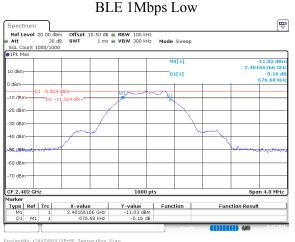
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101947	2023/10/18	2024/10/17
Eastsheep	Coaxial Attenuator	5W-N-JK-6G- 10dB	F-08-EM504	2024/06/07	2025/06/07

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

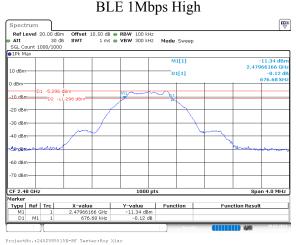
Test Data:

Note: Test only was performed at Chain 0.

Mode	Value (MHz)	Limit (MHz)	Result
BLE 1Mbps Low	0.677	≥0.5	Pass
BLE 1Mbps Middle	0.677	≥0.5	Pass
BLE 1Mbps High	0.677	≥0.5	Pass
BLE 2Mbps Low	1.181	≥0.5	Pass
BLE 2Mbps Middle	1.189	≥0.5	Pass
BLE 2Mbps High	1.189	≥0.5	Pass

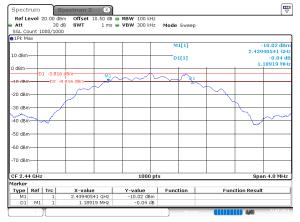


ProjectNo.:2402V85515E-RF Tester:Roy Xiao Date: 26.JUL.2024 20:35:13

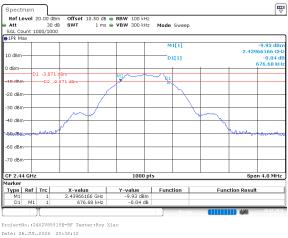


Date: 26.JUL.2024 20:40:25

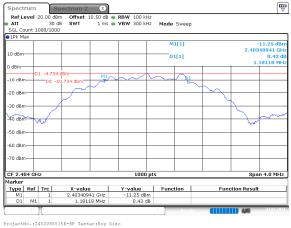
BLE 2Mbps Middle



ProjectNo.:2402V85515E-RF Tester:Roy Xiao Date: 31.JUL.2024 00:13:12

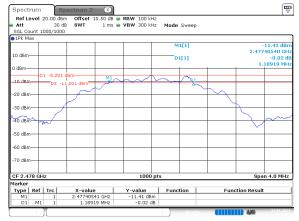






Date: 31.JUL.2024 00:11:39

BLE 2Mbps High



ProjectNo.:2402V85515E-RF Tester:Roy Xiac Date: 31.JUL.2024 00:13:52

Page 41 of $5\overline{2}$

BLE 1Mbps Middle

Report Template Version: FCC-BLE-V1.2

5.4 Maximum Conducted Output Power

Serial No.:	2OCI-2	Test Date:	2024/07/26~2024/08/01
Test Site:	RF	Test Mode:	Transmitting
Tester:	Roy Xiao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	24.7-25.9	Relative Humidity: (%)	55-62	ATM Pressure: (kPa)	98.6-100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101947	2023/10/18	2024/10/17
Eastsheep	Coaxial Attenuator	5W-N-JK-6G- 10dB	F-08-EM504	2024/06/07	2025/06/07

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Chain 0:

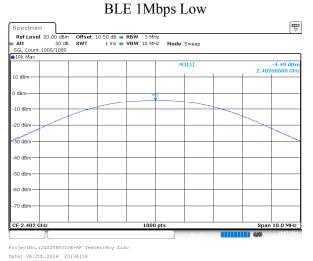
Mode	Value (dBm)	Limit (dBm)	Result
BLE 1Mbps Low	-4.49	30.00	Pass
BLE 1Mbps Middle	-3.35	30.00	Pass
BLE 1Mbps High	-4.76	30.00	Pass
BLE 2Mbps Low	-3.89	30.00	Pass
BLE 2Mbps Middle	-2.96	30.00	Pass
BLE 2Mbps High	-4.28	30.00	Pass

Chain 1:

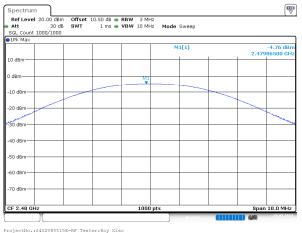
Mode	Value (dBm)	Limit (dBm)	Result
BLE 1Mbps Low	-4.79	30.00	Pass
BLE 1Mbps Middle	-3.53	30.00	Pass
BLE 1Mbps High	-4.97	30.00	Pass
BLE 2Mbps Low	-3.89	30.00	Pass
BLE 2Mbps Middle	-2.96	30.00	Pass
BLE 2Mbps High	-4.28	30.00	Pass

Report No.:2402V85515E-RF-00A

Chain 0:

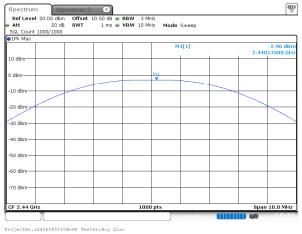


BLE 1Mbps High

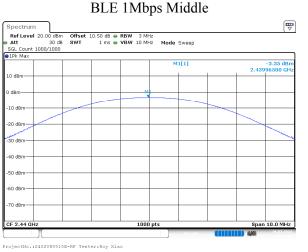


ProjectNo.:2402V85515E=RF Tester:Roy Xi Date: 26.JUL.2024 20:41:15

BLE 2Mbps Middle

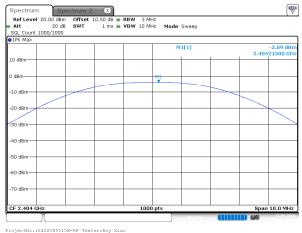


Date: 31.JUL.2024 00:18:46



Date: 26.JUL.2024 20:39:00

BLE 2Mbps Low



Date: 31.JUL.2024 00:18:24

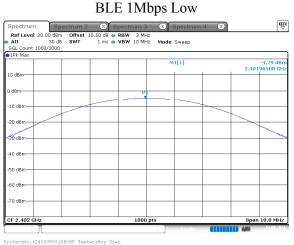
BLE 2Mbps High



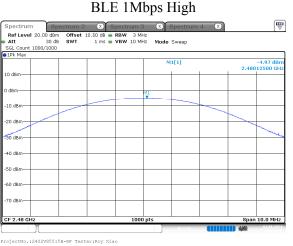
ProjectNo.:2402V85515E-RF Tester:Roy Xiao

Date: 31.JUL.2024 00:19:21

Chain 1:

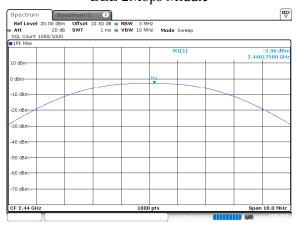


ProjectNo.:2402V85515E-RF Tester:Roy Date: 1.AUG.2024 00:46:27

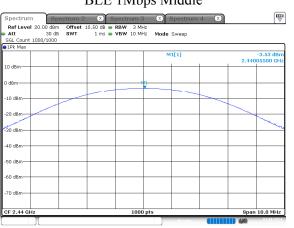


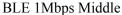
ProjectNo.:2402V85515E-RF Tes Date: 1.AUG.2024 00:50:18

BLE 2Mbps Middle



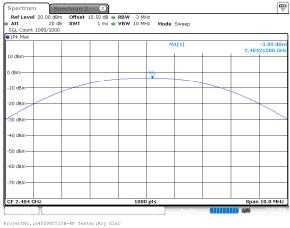
ProjectNo.:2402V85515E-RF Tester:Roy Xiac Date: 31.JUL.2024 00:18:46



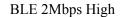


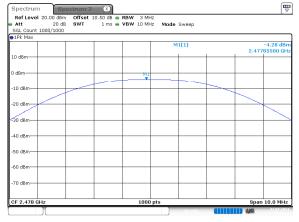
ProjectNo.:2402V85515E-RF Tester:Roy Xiac Date: 1.AUG.2024 00:48:55

BLE 2Mbps Low



ProjectNo.:2402V85515E-RF Tester:Roy Date: 31.JUL.2024 00:18:24





ProjectNo.:2402V85515E-RF Tester:Roy Xiao Date: 31.JUL.2024 00:19:21

5.5 Power Spectral Density

Serial No.:	2OCI-2	Test Date:	2024/07/31~2024/08/01
Test Site:	RF	Test Mode:	Transmitting
Tester:	Roy Xiao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	25.9-26.7	Relative Humidity: (%)	47-49	ATM Pressure: (kPa)	100.2-100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101947	2023/10/18	2024/10/17
Eastsheep	Coaxial Attenuator	5W-N-JK-6G- 10dB	F-08-EM504	2024/06/07	2025/06/07

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

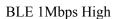
Test Data:

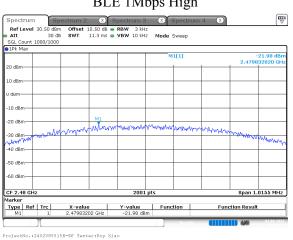
Note: Test only was performed at Chain 0.

Mode	Value (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1Mbps Low	-21.78	8	Pass
BLE 1Mbps Middle	-20.47	8	Pass
BLE 1Mbps High	-21.98	8	Pass
BLE 2Mbps Low	-22.64	8	Pass
BLE 2Mbps Middle	-21.71	8	Pass
BLE 2Mbps High	-23.03	8	Pass

BLE 1Mbps Low Spectrum Spectrum 2 Spectrum 3 Spectrum 41[1] -21.78 dBr 2.401832530 GH) dBn .0 dBrr -10 dBm MI MI -20 dBm wmm mon mou m AN -30 dBm-40 dBm 50 dBm-60 dBm Span 1.0155 MHz CF 2.402 GH: 2001 pt Type Ref Trc X-value Y-value Function 2.40183253 GHz -21.78 dBm Function Result

ProjectNo.:2402V85515E-RF Tester:Roy Xiao Date: 1.AUG.2024 00:46:53





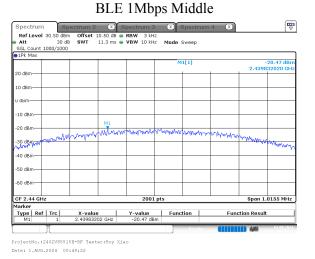
Date: 1.AUG.2024 00:50:45

BLE 2Mbps Middle

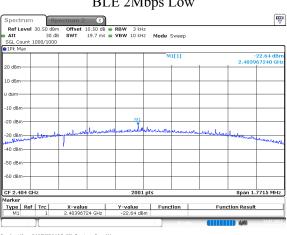
	ectrum 2 🛛 🙁				UT N
Ref Level 30.50 dBm Att 30 dB		RBW 3 kHz VBW 10 kHz	Mode Sweep		
SGL Count 1000/1000	0111 20.0 115 1		mode Sweep		
1Pk Max					
			M1[1]	2 43	-21.71 dBn 9967020 GH:
20 dBm		_		2.40	5507020 GH.
10 dBm					
u dem					
-10 dBm					
-20 dBm		M1			
	and the second	allimeradian	manter	a and a star	
-30 dBm	and and the second			marchable and	theman
40 dBm					Comment.
-+0 UBIII-					
-50 dBm		-			
-60 dBm					
CF 2.44 GHz		2001 pt	s	Span	1.7835 MHz
1arker				· · ·	
Type Ref Trc	X-value	Y-value	Function	Function Res	ult
M1 1	2.43996702 GHz	-21.71 dBm			

ProjectNo.:2402V85515E-RF Tester:Roy Xiao Date: 31.JUL.2024 00:21:27

Report No.:2402V85515E-RF-00A

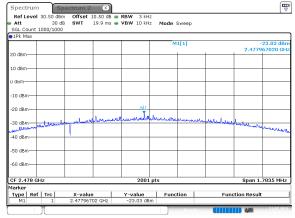






ProjectNo.:2402V855158-RF Tester:Roy Xiac Date: 31.JUL.2024 00:20:25

BLE 2Mbps High



ProjectNo.:2402V85515E-RF Tester:Roy Xiac Date: 31.JUL.2024 00:22:23

5.6 100 kHz Bandwidth of Frequency Band Edge

Serial No.:	2OCI-2	Test Date:	2024/07/26~2024/07/31
Test Site:	RF	Test Mode:	Transmitting
Tester:	Roy Xiao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	25.9-26.7	Relative Humidity: (%)	47-49	ATM Pressure: (kPa)	98.6-100.8
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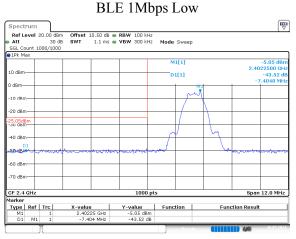
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101947	2023/10/18	2024/10/17
Eastsheep	Coaxial Attenuator	5W-N-JK-6G- 10dB	F-08-EM504	2024/06/07	2025/06/07

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

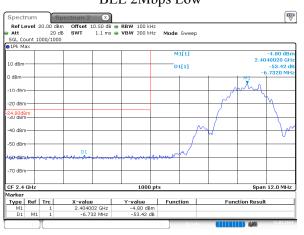
Test Data:

Note: Test only was performed at Chain 0.

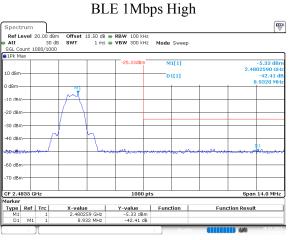


ProjectNo.:2402V85515E-RF Tester:Roy Xiao Date: 26.JUL.2024 20:35:00









ProjectNo.:2402V85515E-RF Tester:Roy Xiac Date: 26.JUL.2024 20:40:11

BLE 1Mbps High

Spectrum Spectr	um 2 🛛 🕅			Ę
	ffset 10.50 dB ⊜ RBW WT 1 ms ⊜ VBW		Sweep	· · · · · · · · · · · · · · · · · · ·
∋1Pk Max				
	-25.	17dBm M	1[1]	-5.17 dB
10 dBm				2.4780050 GF
10 dBm		D	[1]	-52.09 d
0 dBm				8.9180 MH
J UBIII				
-10 dBm And				
-20 dBm				
7 1 1				
30 dBm				
/				
-40 dBm				
V V				
-50 dBm				
	man and		D1	
-60 dBm	a manager and a	بهدائله بالمحمد المحمد الم	and the second	المكتمور بالاستجار والمحمد والمسمو المحمود الم
-70 dBm				
CF 2.4835 GHz		1000 pts		Span 14.0 MHz
larker				
	-value Y-va	lue Func	tion	Function Result
		17 dBm		
D1 M1 1	8.918 MHz -5	2.09 dB		
1			Ready III	31.07.202

ProjectNo.:2402V85515E=RF Tester:Roy Xiao

Date: 31.JUL.2024 00:24:15

Report Template Version: FCC-BLE-V1.2

5.7 Duty Cycle

Serial No.:	2OCI-2	Test Date:	2024/07/26~2024/07/31
Test Site:	RF	Test Mode:	Transmitting
Tester:	Roy Xiao	Test Result:	/

Environmental Conditions:

Temperature: (°C):	24.7-25.9	Relative Humidity: (%)	55-62	ATM Pressure: (kPa)	98.6-100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101947	2023/10/18	2024/10/17
Eastsheep	Coaxial Attenuator	5W-N-JK-6G- 10dB	F-08-EM504	2024/06/07	2025/06/07

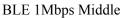
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

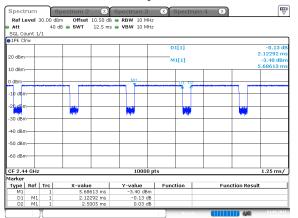
Test Data:

Note: Test only was performed at Chain 1.

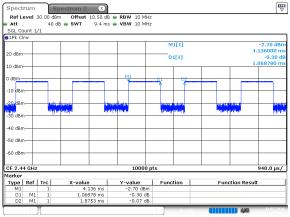
Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	1/Ton (Hz)	VBW Setting (kHz)
BLE 1Mbps Middle	2.123	2.501	84.96	471	0.500
BLE 2Mbps Middle	1.069	1.875	57.01	935	1

Duty Cycle = Ton/(Ton+Toff)*100%





ProjectNo.:2402V85515E-RF Tester:Roy Xiac Date: 1.AUG.2024 00:48:36 BLE 2Mbps Middle



ProjectNo.:2402V85515E-RF Tester:Roy Xiac Date: 31.JUL.2024 00:08:41

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2402V85515E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402V85515E-RF-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2402V85515E-RF-00A-TSP TEST SETUP PHOTOGRAPHS.

EXHIBIT C - RF EXPOSURE EVALUATION

SAR EVALUATION

Applicable Standard

According to \$15.247(i) and \$1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

- mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison
 - 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

The max conducted power including tune-up tolerance is -2.0 dBm (0.63mW). [(max. power of channel, mW)/(min. test separation distance, mm)][\sqrt{f} (GHz)] =0.63/5*($\sqrt{2.480}$) = 0.2< 3.0

Note: the max conducted power including tune-up tolerance was declared by manufacturer. **Result: Compliant. The stand-alone SAR evaluation is not necessary.**

***** END OF REPORT *****