

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Arduino S.r.l.
Via Andrea Appiani, 25, 20900 Monza, Italy

Manufacturer: WNC Corporation
20 Park Avenue II Hsinchu Science Park, Hsinchu 300,
Taiwan

EUT Description: Arduino UNO Q

Brand Name: Arduino

Model No./ISED HVIN: ABX00162

Family Model No.: ABX00173

/ Family ISED HVIN:

Model Difference: Please refer to section 1.4 for more details

ISED PMN: UNO Q

Report Number: TERF2511003771E2

FCC ID 2AN9S-ABX00162

IC: 26792-ABX00162

Date of EUT Received: September 16, 2025

Date of Test: November 7, 2025 ~ November 10, 2025

Issue Date: November 25, 2025

Approved By

Arno Hsieh

Arno Hsieh

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISED RSS-247.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2511003771E2	00	Add family model number and one antenna	November 25, 2025	Susan Lin	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	Arduino UNO Q
Brand Name	Arduino
Model No. /ISED HVIN	ABX00162
Family Model No.: / Family ISED HVIN:	ABX00173
Model Difference:	Please refer to section 1.4 for more details
Hardware Version	N/A
Firmware Version	N/A
EUT Series No.	14B5CD1180C7
Power Supply	5Vdc
Test Software (Name/Version)	CMD

1.2 RF Specification

Radio Technology:	BT BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + $\pi/4$ DQPSK + 8DPSK
Transmit Power:	9.39 dBm
Frequency Range:	2.402GHz ~ 2.480GHz
Dwell Time:	$\leq 0.4s$

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1.3 Antenna Designation

Ant. Type	Brand	Part No.	Freq. (MHz)	Peak Gain(dBi)
PCB	WNC	DMVQ-AD01_SGB	2400~2483.5	1.41
PCB	WNC	DMVQ-AD01_SGD	2400~2483.5	4.80

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. The antenna information is provided by the applicant. The laboratory does not verify the accuracy of this information, and all test results related to antenna characteristics are based solely on the data supplied. Responsibility for the authenticity and accuracy of these specifications rests entirely with the party who provided the information.
3. The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.

1.4 Model Difference

The differences between models can be found in the table below:

Models *	M/N number	eMMC	Antenna Part No.
ABX00162	PCB ver.SGB	Max. 16GB	DMVQ-AD01_SGB
ABX00162	PCB ver.SGD or PCB ver.0GA **	Max. 16GB	DMVQ-AD01_SGD
ABX00173	--	Max. 32GB	DMVQ-AD01_SGD

Note:

* Model ABX00162 (PCB ver.SGB) and Model ABX00162 (PCB ver.SGD or PCB ver.0GA) are identical except for the antenna and have added a resistor (R2517: 0R1J).

Model ABX00162 (PCB ver.SGB) and Model ABX00173 are identical except for the antenna and eMMC capacity and have added a resistor (R2517: 0R1J).

Model ABX00162 (PCB ver.SGD or PCB ver.0GA) and Model ABX00173 are identical except for the eMMC capacity.

** Model ABX00162 (PCB ver.SGD) and Model ABX00162 (PCB ver.0GA) are identical except for the M/N number.

Refer to photos.

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1.5 Operating Frequencies

2400~2483.5 MHz							
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

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1.6 EUT Availability and The Worst Test Modes

1. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
2. The field strength of radiation emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.
4. Power verification is the same as the original.

ANTNNA PORT CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
Peak Output Power				
Bluetooth	0 to 78	0,39,78	GFSK	DH5
	0 to 78	0,39,78	$\pi/4$ -DQPSK	2DH5
	0 to 78	0,39,78	8-DPSK	3DH5
Band Edge				
Bluetooth	0 to 78	0,78	GFSK,8-DPSK	DH5,3DH5

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)				
Bluetooth	39	39	GFSK	DH5
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)				
Bluetooth	39	39	GFSK,8-DPSK	DH5,3DH5

Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case position was reported.

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2 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result	Note
§15.247(b)(1)	RSS-247 §6.2.3.2	Peak Output Power	Compliant	
§15.205 §15.209 §15.247(d)	RSS-247 §6.6 RSS-Gen §8.9 RSS-Gen §8.10	Unwanted Emission	Compliant	N

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2509003006E2.

2.1 Test Methodology of Applied Standards

1. FCC Part 15, Subpart C §15.247
2. FCC KDB 558074 D01 15.247 Meas Guidance v05r02
3. ISED RSS-247 issue 4 July 2025
4. ISED RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)
5. ANSI C63.10:2020
6. ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Frequency Separation	+/- 1.48 Hz
Number of hopping frequency	+/- 1.48 Hz
Time of Occupancy	+/- 1.48 Hz
Temperature	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.37 dB	1GHz - 18GHz
	+/- 3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.37 dB	1GHz - 18GHz
	+/- 3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 dB	33GHz - 50GHz
	+/- 1.59 dB	50GHz - 60GHz
	+/- 1.71 dB	60GHz - 90GHz
	+/- 1.64 dB	90GHz - 140GHz
	+/- 3.84 dB	140GHz - 220GHz

Note

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number / Registration Number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803	SAC 1 / SAC 2 / SAC 3 Conduction 1 / Conducted 1 Conducted 2 / Conducted 3 Conducted 4 / Conducted 5 Conducted 6	TW0027 / 891563	TW3702
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.2, Keji 1st Rd, Guishan District, Taoyuan City, Taiwan 333	SAC C / SAC D / SAC G Conduction C/ Conducted A Conducted B / Conducted C Conducted D / Conducted E Conducted F / Conducted G	TW0028 / 200037	TW3702

Temperature:	22-26	°C	Relative Humidity:	55-60	%
Test site	Conducted 1		Test Start:	11/10/2025	
Test Engineer:	Teddy Lu		Test Done:	11/10/2025	

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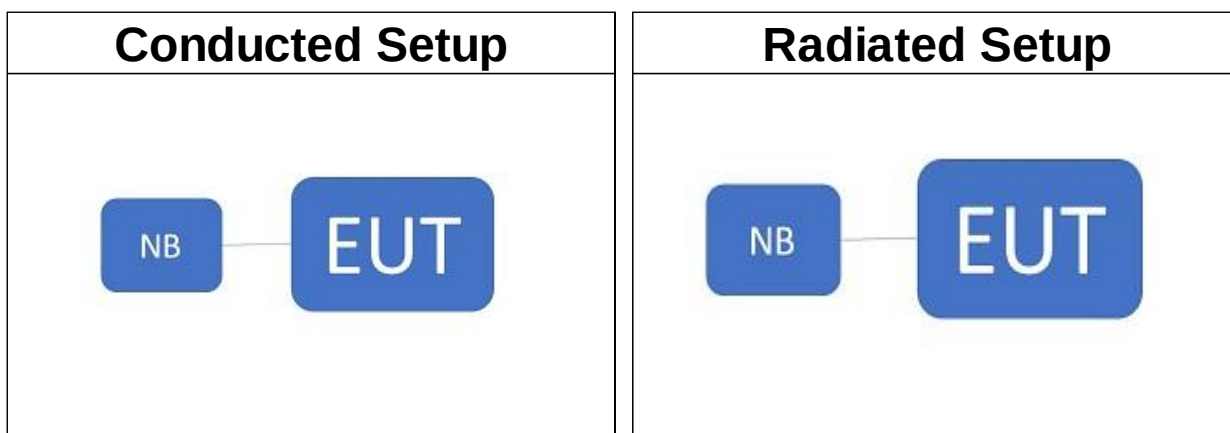
3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

3.2 Diagrams



3.3 List

3.3.1 Conducted Setup

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	T440P	PB-02Y6RK 14/07	N/A	N/A
USB Cable	PowerSync	CUBCVARA0010	N/A	N/A	N/A

3.3.2 Radiated Setup

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
USB Cable	PowerSync	CUBCVARA0010	N/A	N/A	N/A
Notebook	Lenovo	L480	PF-1QCNW8 19/06	N/A	N/A

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Mini-Circuits	BW-S10W2+	3	12/11/2024	12/10/2025
DC Block	Mini-Circuits	BLK-18-S+	2	12/11/2024	12/10/2025
MXA Spectrum Analyzer	KEYSIGHT	N9021B	MY62242004	06/11/2025	06/10/2026
Power Meter	Anritsu	ML2496A	2132007	09/24/2025	09/23/2026
Power Sensor	Anritsu	MA2411B	1911391	09/24/2025	09/23/2026
Power Sensor	Anritsu	MA2411B	1911392	09/24/2025	09/23/2026
Splitter	Titan	T0510E2W118Q	22015158	12/11/2024	12/10/2025
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Bluetooth Test Set	R&S	CBT	101140	05/20/2025	05/19/2026

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4.2 Radiated Measurement

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3.2G High Pass Filter	Woken	WHKX10-2624	3	12/11/2024	12/10/2025
Attenuator	Mini-Circuits	BW-S10W2+	10	12/11/2024	12/10/2025
Band Reject Filter 2400-2483.5	Titan	T04N24002483505 01	23040703-10	12/11/2024	12/10/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	9168-1278	03/10/2025	03/09/2026
Coaxial Cables	EMCI	EMC104-SM-SM-600 +EMC105-SM-SM-2000 +EMC105-SM-SM-1500 +EMC105-SM-SM-10000	RX Cable 9K-18G (220237+220909+220906+240801)	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	07/14/2025	07/13/2026
EMI Test Receiver	R&S	ESR 7	102525	02/08/2025	02/07/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	07/04/2025	07/03/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	08/07/2025	08/06/2026
Horn Antenna	RF SPIN	DRH18-E	210303A18-ES	02/20/2025	02/19/2026
Loop Antenna	COM-POWER	AL-130R	10160104	12/19/2024	12/18/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980867	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC184045SEE	980939	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC330N	980826	07/14/2025	07/13/2026
Bluetooth Test Set	R&S	CBT	101140	05/20/2025	05/19/2026
Site Cal	SGS	SAC 2	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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5 REGULATORY REQUIREMENTS

5.1 Maximum Output Power

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, The Limit: 1Watt. For all other frequency hopping systems in the 2400 – 2483.5MHz band: The Limit: 0.125 Watts. The power limit for 1Mbps is 1watt, and 2Mbps, 3Mbps and AFH mode are 0.125 watts.
EIRP shall not exceed 4 W.

5.2 Unwanted Emissions

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.

In addition, radiated emissions which fall in the restricted bands must also comply with the applicable radiated emission limits as defined in the general emission limit tables.

Moreover, for an intentional radiator operating below 10 GHz, the frequency range of measurements shall extend up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note: The lower limit shall apply at the transition frequencies.

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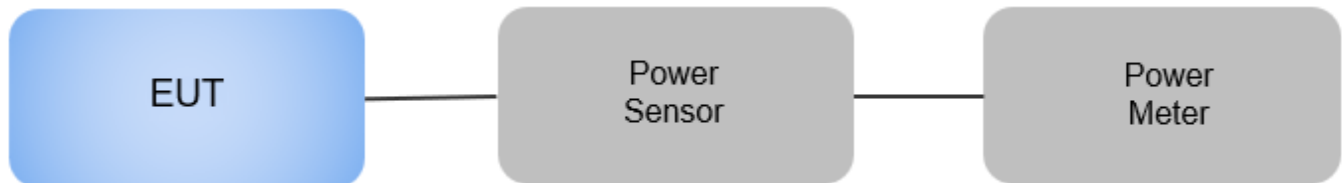
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6 TEST CONFIGURATION

6.1 Maximum Output Power



Place the EUT on the table and set it to transmit mode.

The testing was performed in accordance with the applicable measurement procedure. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the power meter.

Record the maximum reading as observed from the power meter(Max Hold, Detector = Peak, RBW ≥ 20 dB bandwidth).

Repeat the above procedures until all default test channels have been measured.

6.2 Unwanted Emissions

6.2.1 Duty Cycle Correction Factor, Band edge, Emission



Correction Factor For Radiated Unwanted Emission

Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to produce the worst-case pulse ON time.

The testing was performed in accordance with the applicable measurement procedure.

Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the spectrum analyzer.

Set the center frequency of the spectrum analyzer to the operating frequency.

Configure the spectrum analyzer as follows:

RBW = 1 MHz

VBW = 3 MHz

Span = 0 Hz

Detector = Peak

Sweep Time = 100 ms (manually adjusted)

Repeat the above procedure until all data rate of interest have been measured.

Average Value (dB μ V/m) = Peak Actual Field Strength (dB μ V/m) + Duty Cycle Correction

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Factor (dB)

Duty Cycle Correction Factor (dB) = $20 \times \log_{10} (T_{on} / 100 \text{ ms})$

Band edge and Spurious Emission

1. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
2. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
3. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector = Peak for Maximum Emission Measurements at frequency above 1 GHz.
4. According to C63.10:2020 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor $20 \log (T_{on}/100\text{ms})$

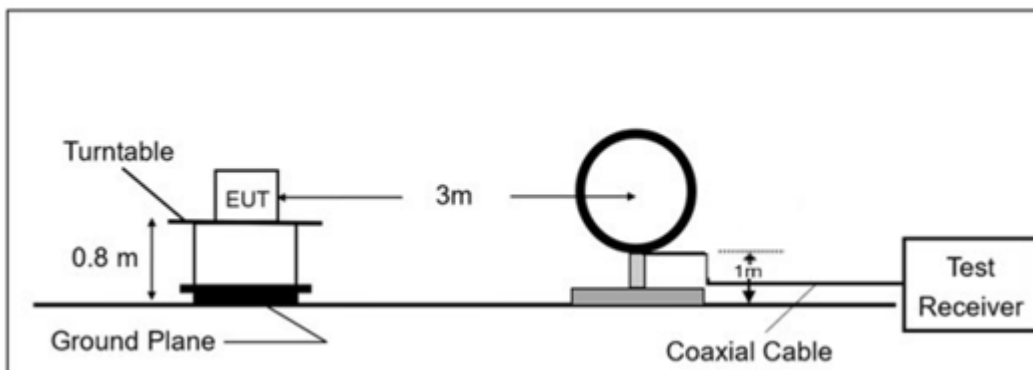
6.2.2 Radiated Emission

For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

Radiated Emission Test Set-Up, Frequency Below 30MHz.



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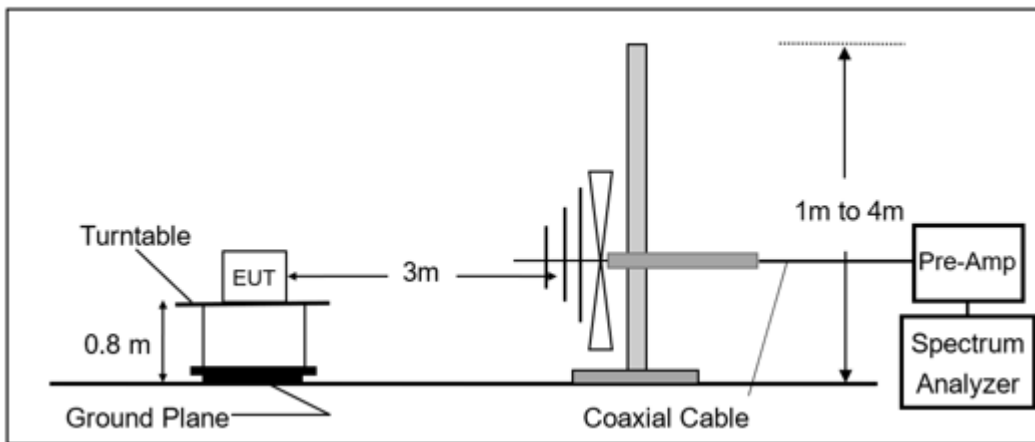
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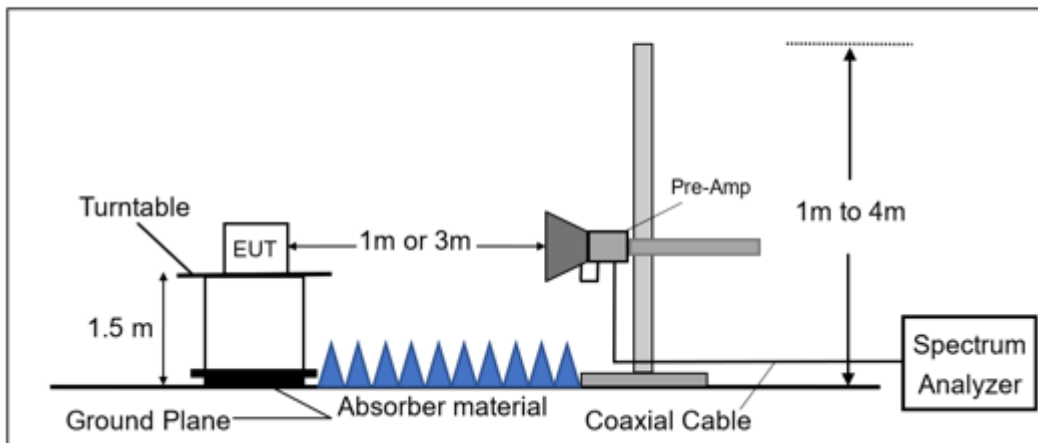
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Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



Radiated emissions below 30 MHz were measured in a 9 m × 6 m × 6 m semi-anechoic chamber. The measurement results are equivalent to those obtained at an open-area test site (OATS).

A comparison between data measured at the open-area test site and the semi-anechoic chamber shows very similar results.

The testing was performed in accordance with the applicable radiated emission measurement procedure.

The EUT was placed on a turntable at a height of 0.8 m for frequencies below 1 GHz and 1.5 m for frequencies above 1 GHz.

The turntable was rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned 3 meters away from the receiving antenna, which was varied in height from 1 m to 4 m to locate the highest emissions.

The spectrum analyzer was set with RBW = 100 kHz and VBW = 300 kHz, using a Peak detector for frequencies between 30 MHz and 1 GHz.

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A receiver mode with RBW = 120 kHz was used for Quasi-Peak (QP) measurements between 30 MHz and 1 GHz.

For frequencies above 1 GHz, the spectrum analyzer was set with RBW = 1 MHz, VBW = 3 MHz, and Detector = Peak for maximum emission measurements.

For average emission measurements above 1 GHz where the duty cycle (D) is $\geq 98\%$, the analyzer was set with RBW = 1 MHz, VBW = 3 MHz, and the RMS detector with correction factor $[10 \log(1/D)]$. If the emission is continuous ($D \geq 98\%$) and does not switch ON/OFF with the transmit cycle, then no duty cycle correction is required.

For average emission measurements above 1 GHz where $D < 98\%$, the analyzer was set with RBW = 1 MHz and $VBW \geq 1/T$.

The average value of pulsed emissions is determined using the duty cycle correction method, applying a correction factor of $20 \times \log_{10}(T_{on} / 100 \text{ ms})$.

When measuring radiated emissions above 1 GHz, the receiving antenna was maintained within the "cone of radiation" and pointed at the emission source in both azimuth and elevation, with polarization oriented for maximum response, ensuring it remained within the 3 dB illumination beamwidth of the measurement antenna.

The six highest emissions were fully maximized using the above procedures to ensure EUT compliance.

Each emission was further maximized by changing the receiving antenna polarization between horizontal and vertical.

Repeat the above procedures until all default test channels (low, middle, and high) are measured.

Note: Emissions from 9 kHz to 30 MHz were pre-scanned and found to be at least 20 dB below the applicable limits, and are therefore not reported.

6.2.3 Field Strength Calculation

The field strength is calculated by adding the antenna factor and cable loss, then subtracting the amplifier gain and any applicable duty cycle correction factor from the measured reading. The basic equation and an example calculation are as follows:

$$FS = RA + AF + CL - AG$$

Where:

FS = Field Strength (dB μ V/m)

RA = Reading Amplitude (dB μ V)

AF = Antenna Factor (dB/m)

CL = Cable Loss (dB)

AG = Amplifier Gain (dB)

The emission limit is expressed in dB μ V/m, which corresponds to the logarithmic conversion of $20 \times \log_{10}(\mu\text{V/m})$.

$$\text{Actual Field Strength (dB}\mu\text{V/m)} = \text{Spectrum Analyzer Reading (dB}\mu\text{V)} + \text{Total Factor (dB)}$$

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Total Factor (dB) = Antenna Factor (dB) + Cable Loss (dB) – Preamplifier Gain (dB)

Average value(dB μ V/m)=Peak Actual FS(dB μ V/m)+ Duty Cycle Correction Factor(dB)

Duty Cycle Correction Factor(dB) = 20 log (Ton/100 ms)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not reported.

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7 TEST RESULTS

7.1 Maximum Output Power

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)
DH5	76.80	1.15
2DH5	77.20	1.12
3DH5	77.20	1.12

1M BR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	default	7.28	5.346	1000
39	2441	default	6.97	4.977	1000
78	2480	default	9.39	8.690	1000

1M BR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	default	7.08	5.101	1000
39	2441	default	6.80	4.782	1000
78	2480	default	9.21	8.330	1000

2M EDR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	default	6.36	4.325	125
39	2441	default	5.94	3.926	125
78	2480	default	8.50	7.079	125

2M EDR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	default	3.62	2.303	125
39	2441	default	3.36	2.170	125
78	2480	default	5.85	3.849	125

3M EDR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	default	6.60	4.571	125
39	2441	default	6.44	4.406	125
78	2480	default	8.94	7.834	125

3M EDR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402	default	3.70	2.346	125
39	2441	default	3.39	2.185	125
78	2480	default	5.90	3.894	125

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7.1.1 EIRP Measurement Result

1M BR mode EIRP

Channel	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
0	2402	default	7.08	4.80	15.404	4000
39	2441	default	6.80	4.80	14.442	4000
78	2480	default	9.21	4.80	25.156	4000

2M EDR mode EIRP

Channel	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
0	2402	default	3.62	4.80	6.956	4000
39	2441	default	3.36	4.80	6.552	4000
78	2480	default	5.85	4.80	11.625	4000

3M EDR mode EIRP

Channel	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
0	2402	default	3.70	4.80	7.086	4000
39	2441	default	3.39	4.80	6.598	4000
78	2480	default	5.90	4.80	11.759	4000

* **Note:** EIRP = Average Power + Gain

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7.2 Unwanted Emissions

7.2.1 Duty Cycle Correction Factor

Model: ABX00162 (PCB ver.SGD)

Bluetooth 1M

Time ON of 100ms: 5.800 ms

Duty Cycle=5.8ms / 100ms= 0.058

Duty Cycle correction factor=20 LOG 0.058 = -24.73 dB

Bluetooth 3M

Time ON of 100ms: 5.800 ms

Duty Cycle=5.8ms / 100ms= 0.058

Duty Cycle correction factor=20 LOG 0.058 = -24.73 dB

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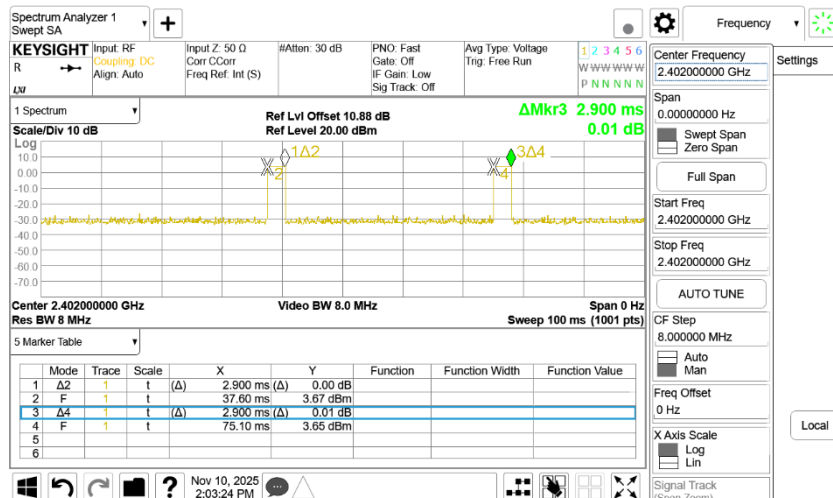
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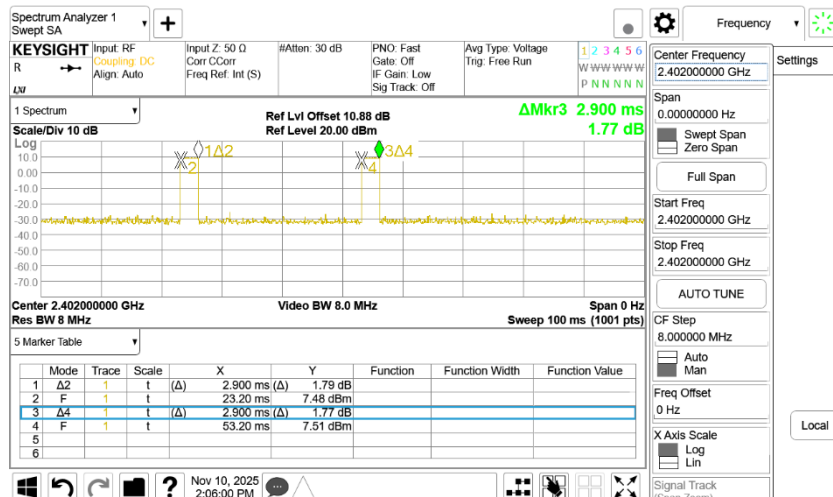
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7.2.2 Duty Cycle test plot

BR



EDR



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7.2.3 CBE

Model: ABX00162 (PCB ver.SGD)

BT_DH5

Channel	Frequency (MHz)	Raw Value(dBm)	Duty factor (dB)	Antenna Peak Gain (dBi)	EIRP (dBm)	Emission Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	
		Chain 0		Chain 0					
0	2402	-44.56	-	4.8	-39.76	55.44	-18.56	74	PK
		-	-24.73	4.8	-64.49	30.71	-23.29	54	AV
78	2480	-36.81	-	4.8	-32.01	63.19	-10.81	74	PK
		-	-24.73	4.8	-56.74	38.46	-15.54	54	AV
Hopping	Hopping (Low)	-40.72	-	4.8	-35.92	59.28	-14.72	74	PK
		-	-24.73	4.8	-60.65	34.55	-19.45	54	AV
Hopping	Hopping (High)	-35.71	-	4.8	-30.91	64.29	-9.71	74	PK
		-	-24.73	4.8	-55.64	39.56	-14.44	54	AV

Average Duty Factor=-24.73(dB)

Average Level=Peak Level+Duty Factor

BT_3DH5

Channel	Frequency (MHz)	Raw Value(dBm)	Duty factor (dB)	Antenna Peak Gain (dBi)	EIRP (dBm)	Emission Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	
		Chain 0		Chain 0					
0	2402	-31.07	-	4.8	-26.27	68.93	-5.07	74	PK
		-	-24.73	4.8	-51.00	44.20	-9.80	54	AV
78	2480	-38.47	-	4.8	-33.67	61.53	-12.47	74	PK
		-	-24.73	4.8	-58.40	36.80	-17.20	54	AV
Hopping	Hopping (Low)	-44.19	-	4.8	-39.39	55.81	-18.19	74	PK
		-	-24.73	4.8	-64.12	31.08	-22.92	54	AV
Hopping	Hopping (High)	-44.35	-	4.8	-39.55	55.65	-18.35	74	PK
		-	-24.73	4.8	-64.28	30.92	-23.08	54	AV

Average Duty Factor=-24.73(dB)

Average Level=Peak Level+Duty Factor

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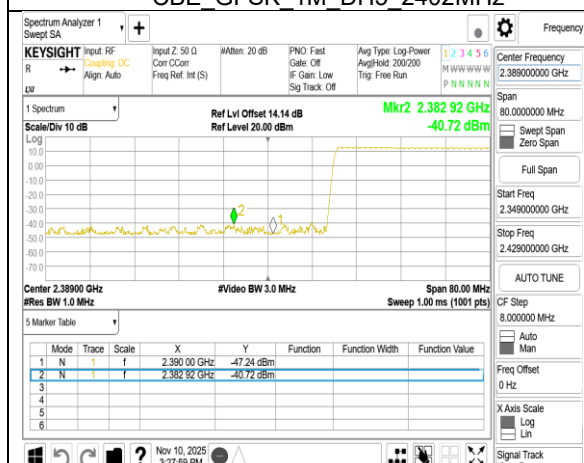
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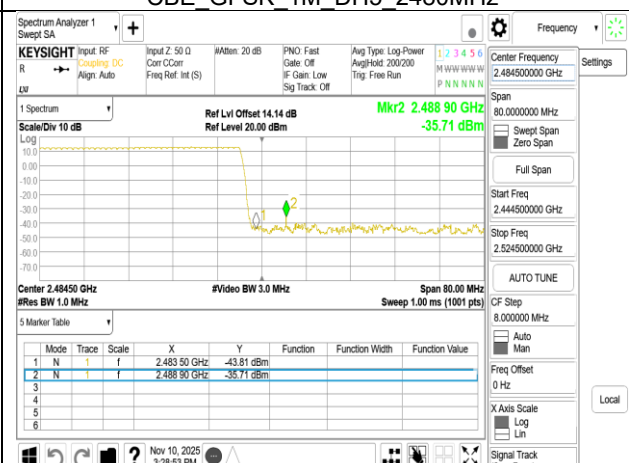
CBE_GFSK_1M_DH5_2402MHz



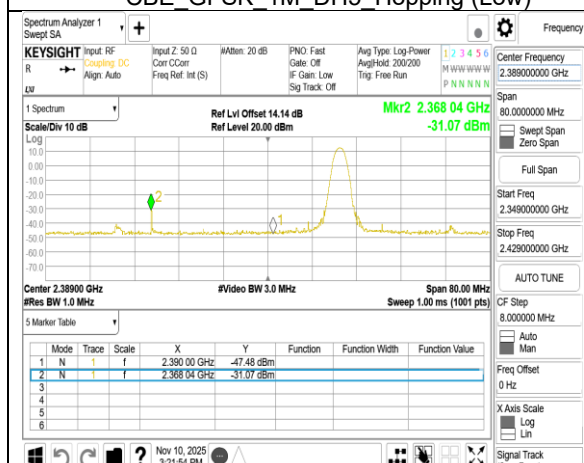
CBE_GFSK_1M_DH5_2480MHz



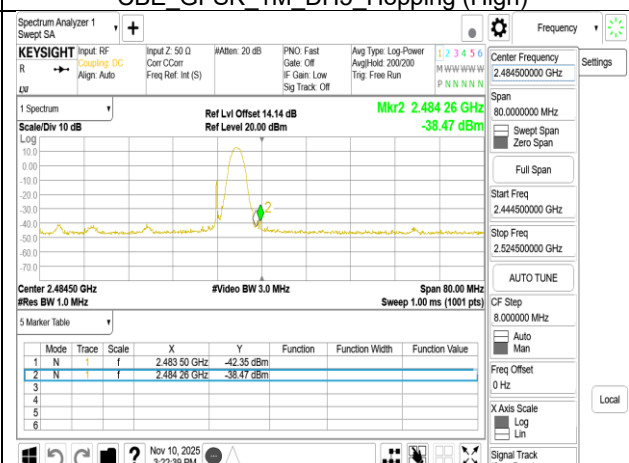
CBE_GFSK_1M_DH5_Hopping (Low)



CBE_GFSK_1M_DH5_Hopping (High)



CBE_8DPSK_3M_DH5_2402MHz

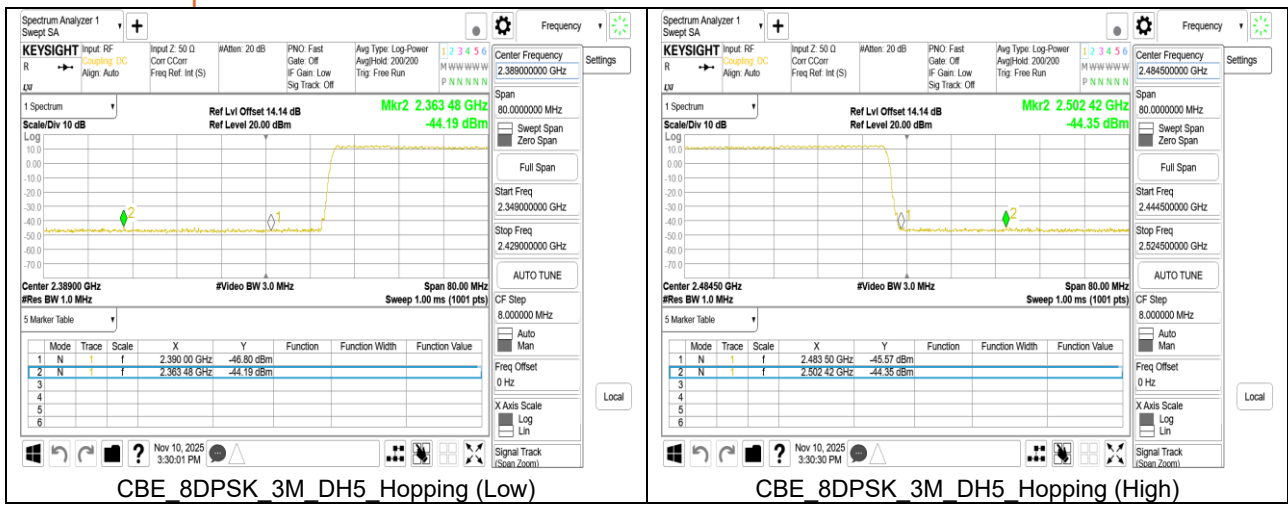


CBE_8DPSK_3M_DH5_2480MHz

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7.2.4 Conducted Emission

Model: ABX00162 (PCB ver.SGD)

BT_3DH5

Channel	Frequency (MHz)	Raw Value(dBm)	Correction Factor (dB)	EIRP (dBm)	Emission Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	
		Chain 0	Chain 0					
39	2441	-78.04	9.5	-68.54	26.66	-13.34	40	PK
		-78.29	9.5	-68.79	26.41	-17.09	43.5	PK
		-75.47	9.5	-65.97	29.23	-16.77	46	PK
		-76.85	9.5	-67.35	27.85	-26.15	54	PK
		-76.01	9.5	-66.51	28.69	-17.31	46	PK
		-76.09	9.5	-66.59	28.61	-17.39	46	PK

Note:

Correction Factor=maximum ground reflection factor+Antenna Gain

BT_DH5

Channel	Frequency (MHz)	Raw Value(dBm)	Duty factor (dB)	Antenna Peak Gain (dBi)	EIRP (dBm)	Emission Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	
		Chain 0		Chain 0					
0	2402	-35.98	-	4.8	-31.18	64.02	-9.98	74	PK
		-	-24.73	4.8	-55.91	39.29	-14.71	54	AV
39	2441	-37.69	-	4.8	-32.89	62.31	-11.69	74	PK
		-	-24.73	4.8	-57.62	37.58	-16.42	54	AV
78	2480	-36.29	-	4.8	-31.49	63.71	-10.29	74	PK
		-	-24.73	4.8	-56.22	38.98	-15.02	54	AV

Average Duty Factor=-24.73(dB)

Average Level=Peak Level+Duty Factor

BT_3DH5

Channel	Frequency (MHz)	Raw Value(dBm)	Duty factor (dB)	Antenna Peak Gain (dBi)	EIRP (dBm)	Emission Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	
		Chain 0		Chain 0					
0	2402	-37.98	-	4.8	-33.18	62.02	-11.98	74	PK
		-	-24.73	4.8	-57.91	37.29	-16.71	54	AV
39	2441	-37.54	-	4.8	-32.74	62.46	-11.54	74	PK
		-	-24.73	4.8	-57.47	37.73	-16.27	54	AV
78	2480	-37.75	-	4.8	-32.95	62.25	-11.75	74	PK
		-	-24.73	4.8	-57.68	37.52	-16.48	54	AV

Average Duty Factor=-24.73(dB)

Average Level=Peak Level+Duty Factor

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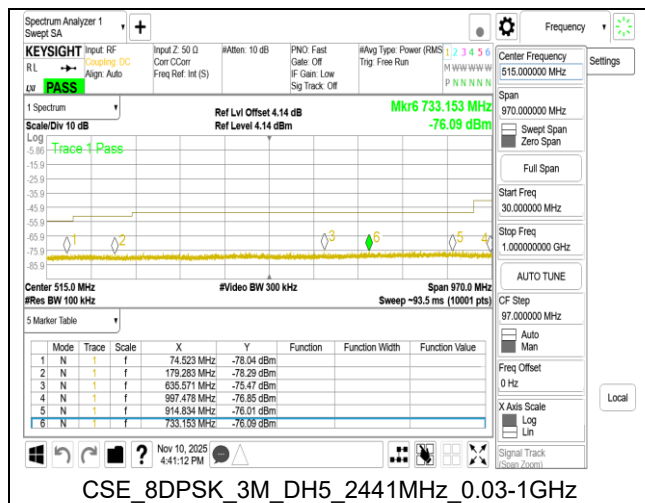
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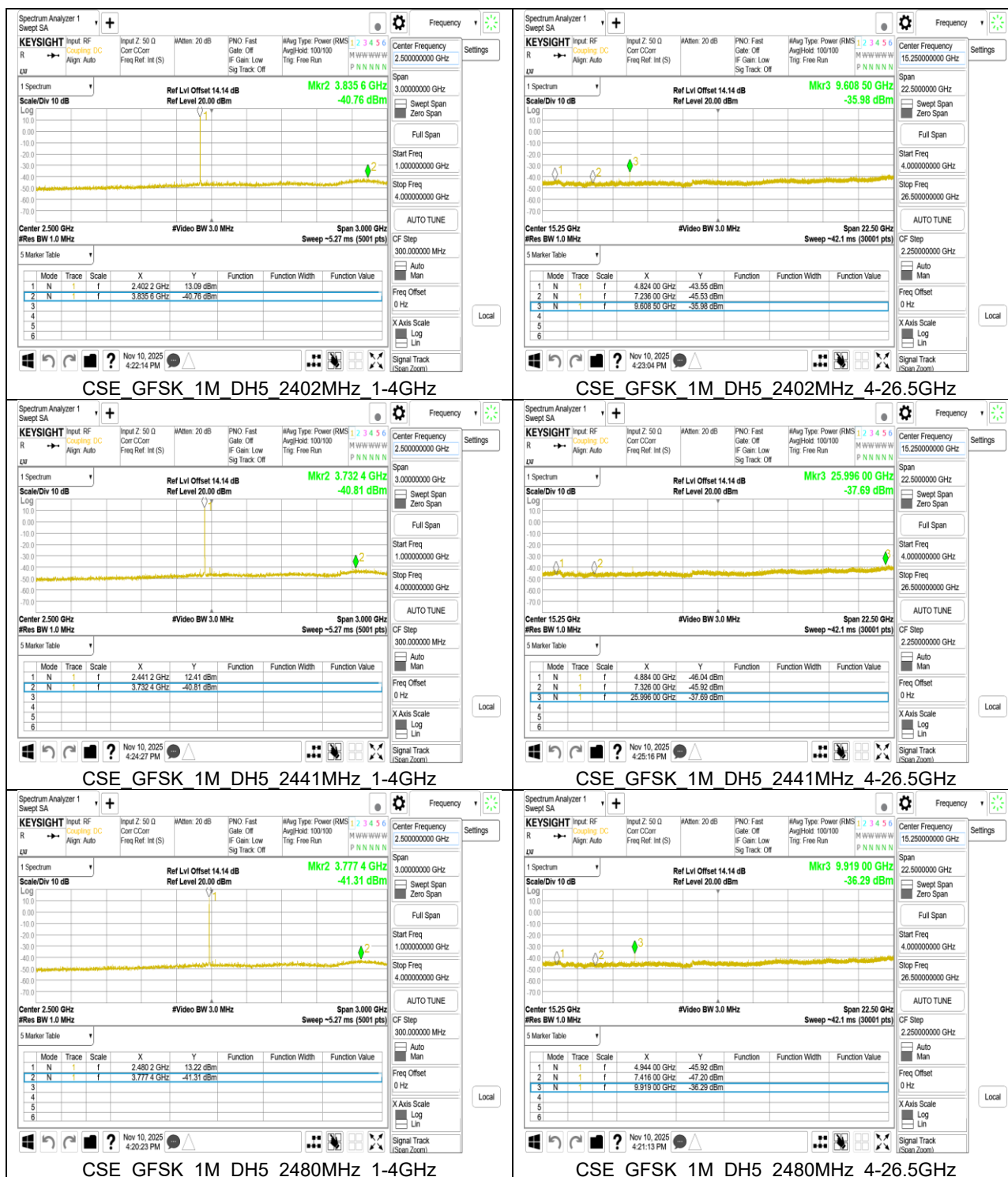
Peak (30MHz~1GHz)



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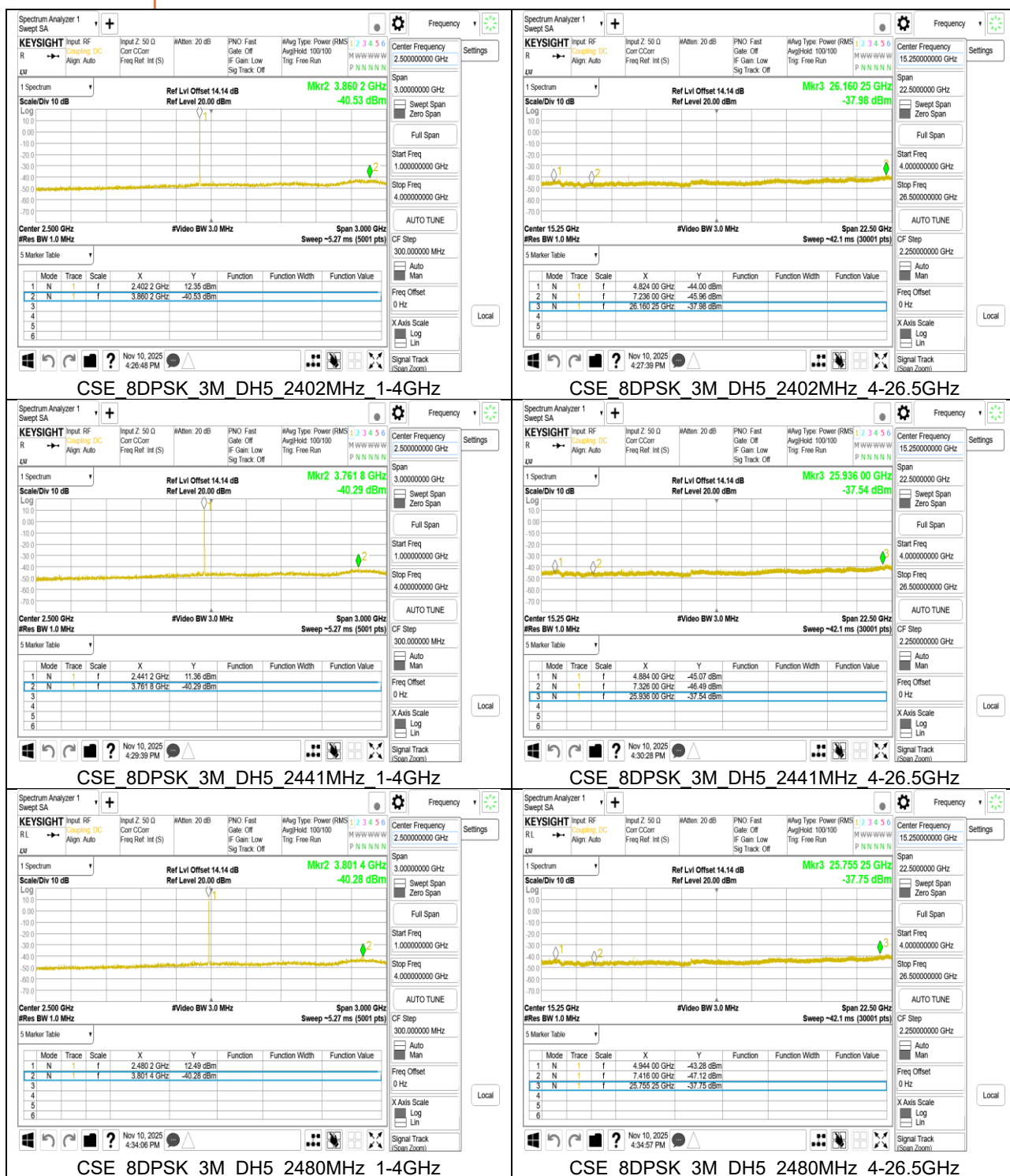
Peak (1~26.5GHz)



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7.2.5 Radiated Spurious Emission

Model: ABX00162 (PCB ver.SGD)

Report Number :TERF2511003771E2

Operation Mode :BR

Test Frequency :2441 MHz

Test Mode :Tx

EUT Pol :E2 Plane

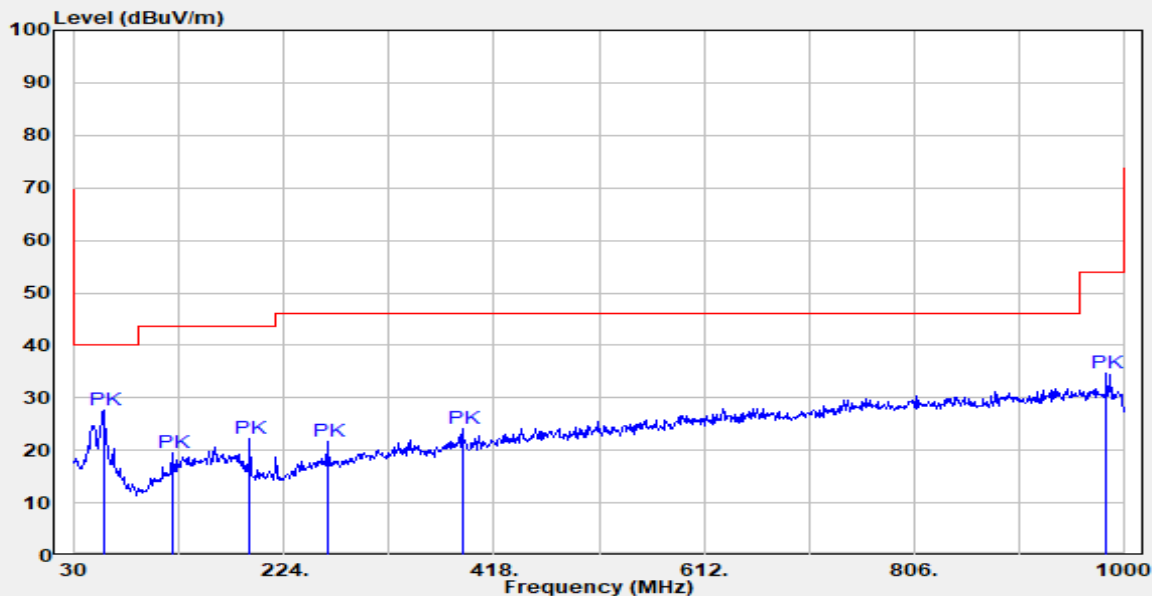
Test Site :SAC 2

Test Date :2025-11-10

Temp./Humi. :25.1°C/61%

Antenna Pol. :Vertical

Engineer :Bob Chao



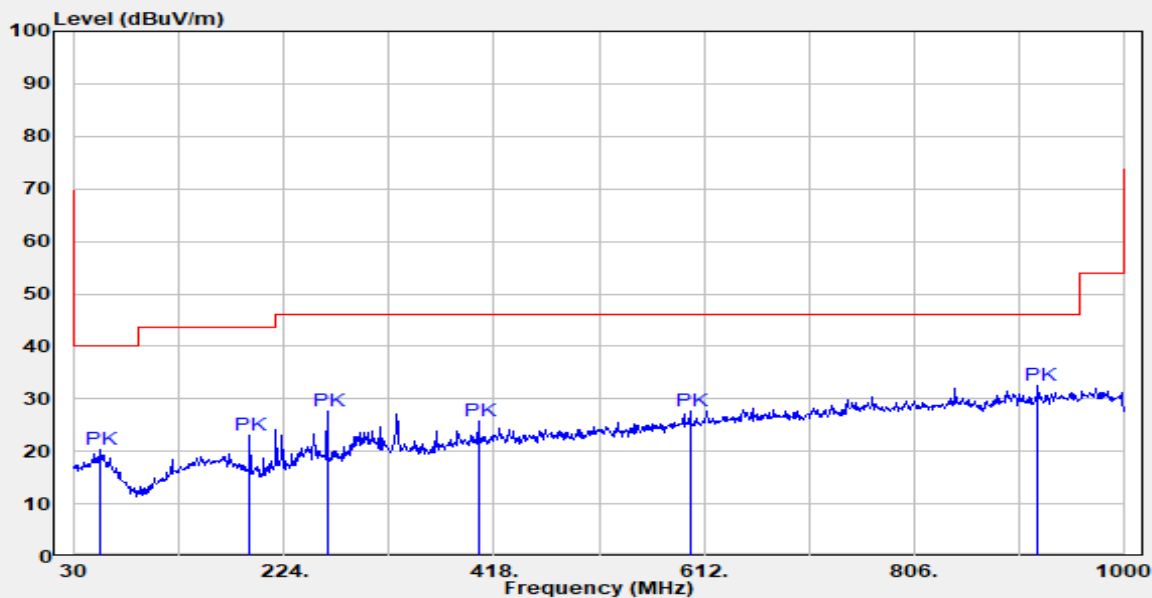
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
57.16	Peak	40.47	-12.70	27.77	40.00	-12.23
120.21	Peak	34.61	-15.09	19.52	43.50	-23.98
191.99	Peak	37.69	-15.40	22.29	43.50	-21.21
263.77	Peak	34.75	-13.17	21.58	46.00	-24.42
388.90	Peak	33.71	-9.50	24.21	46.00	-21.79
984.48	Peak	33.90	0.92	34.82	54.00	-19.18

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Report Number :TERF2511003771E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



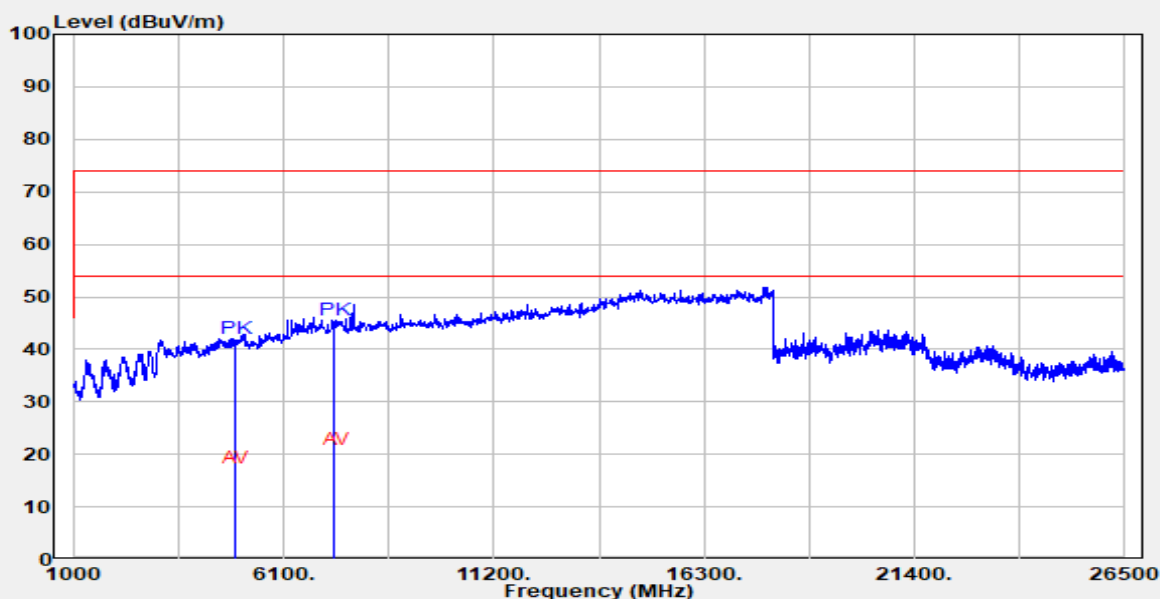
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
54.25	Peak	32.75	-12.51	20.24	40.00	-19.76
191.99	Peak	38.52	-15.40	23.12	43.50	-20.38
263.77	Peak	40.85	-13.17	27.68	46.00	-18.32
403.45	Peak	35.08	-9.31	25.77	46.00	-20.23
599.39	Peak	32.37	-4.74	27.63	46.00	-18.37
921.43	Peak	32.32	0.15	32.47	46.00	-13.53

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Report Number :TERF2511003771E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Peak	39.85	2.11	41.96	74.00	-32.04
4882.00	Average	-	-	17.23	54.00	-36.77
7323.00	Peak	38.52	7.06	45.58	74.00	-28.42
7323.00	Average	-	-	20.85	54.00	-33.15

Average Duty Cycle Factor=-24.73 (dB)

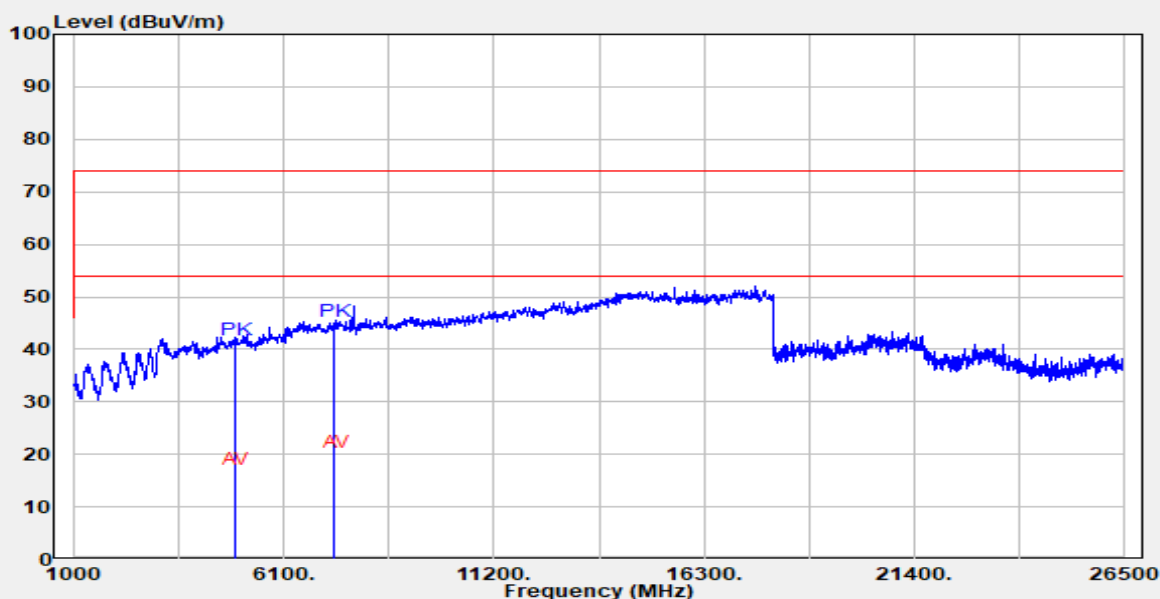
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2511003771E2
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Peak	39.65	2.11	41.76	74.00	-32.24
4882.00	Average	-	-	17.03	54.00	-36.97
7323.00	Peak	38.11	7.06	45.17	74.00	-28.83
7323.00	Average	-	-	20.44	54.00	-33.56

Average Duty Cycle Factor=-24.73 (dB)

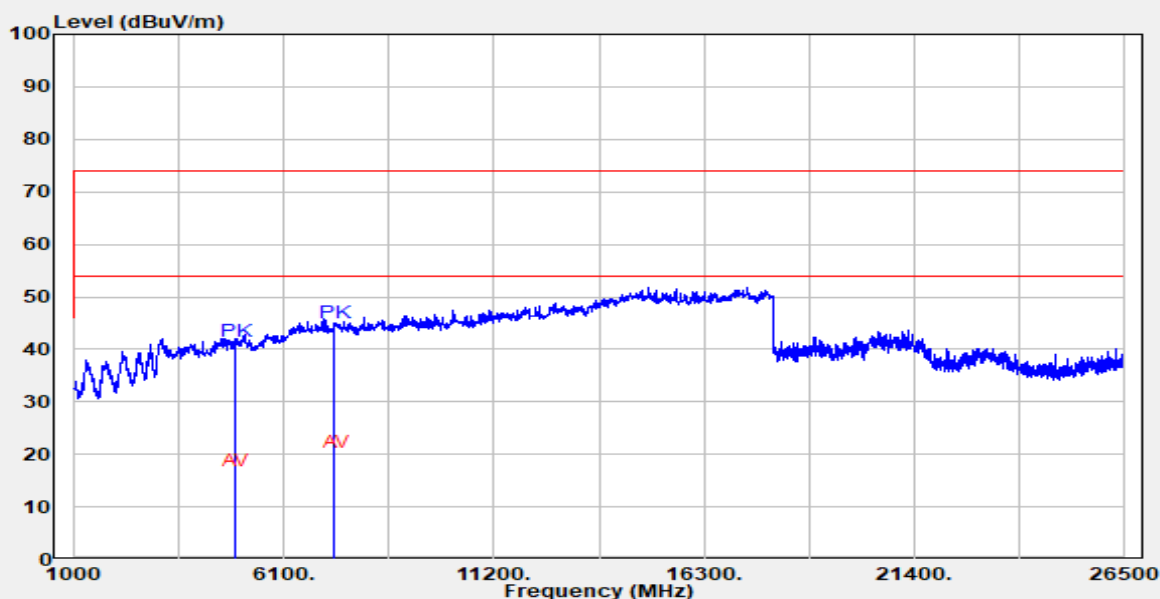
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2511003771E2
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Vertical
 Engineer :Bob Chao



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Peak	39.48	2.11	41.59	74.00	-32.41
4882.00	Average	-	-	16.86	54.00	-37.14
7323.00	Peak	37.88	7.06	44.94	74.00	-29.06
7323.00	Average	-	-	20.21	54.00	-33.79

Average Duty Cycle Factor=-24.73 (dB)

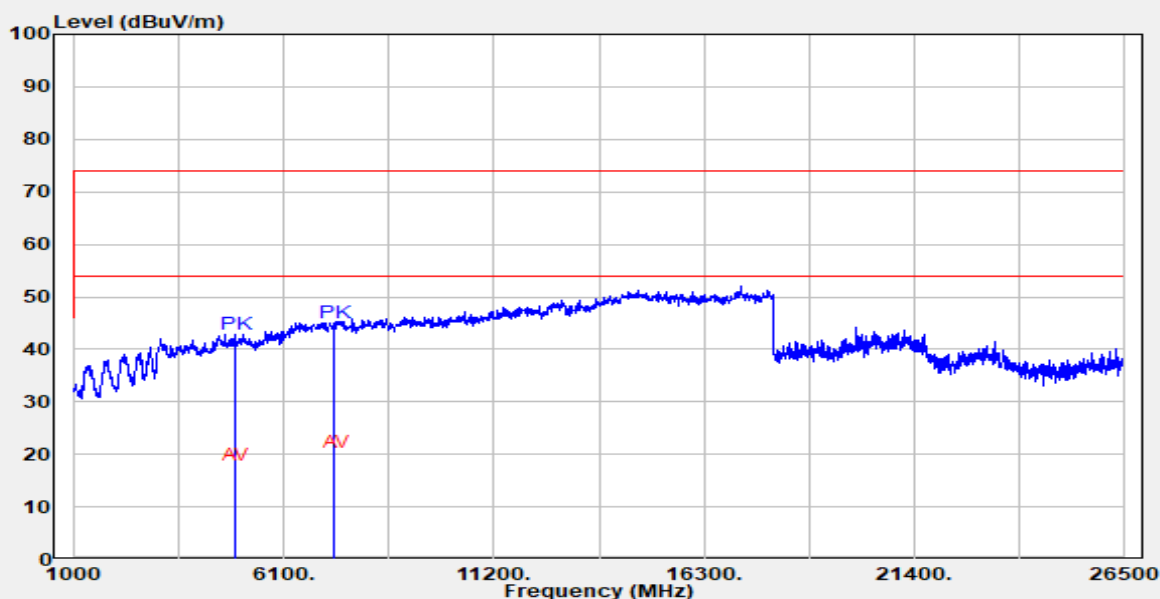
Average Level= Peak Level+ Duty Cycle Factor

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Report Number :TERF2511003771E2
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC 2
 Test Date :2025-11-10
 Temp./Humi. :25.1°C/61%
 Antenna Pol. :Horizontal
 Engineer :Bob Chao



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Peak	40.61	2.11	42.72	74.00	-31.28
4882.00	Average	-	-	17.99	54.00	-36.01
7323.00	Peak	38.04	7.06	45.10	74.00	-28.90
7323.00	Average	-	-	20.37	54.00	-33.63

Average Duty Cycle Factor=-24.73 (dB)

Average Level= Peak Level+ Duty Cycle Factor

~ End of Report ~

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