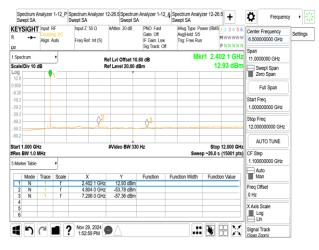
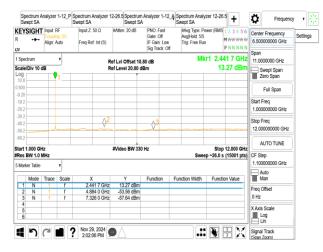
Report No.: TERF2411003330ER Page: 61 of 94



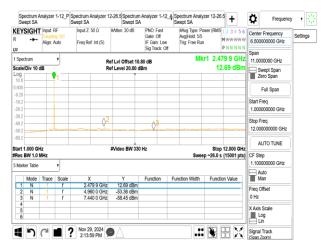
BLE_125K_2402MHz



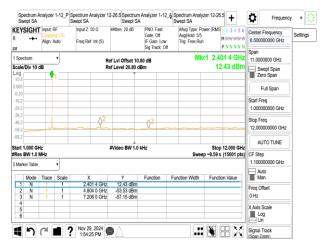
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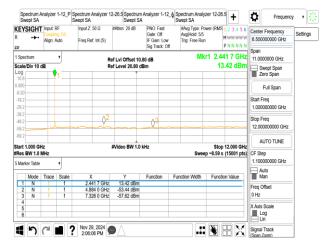
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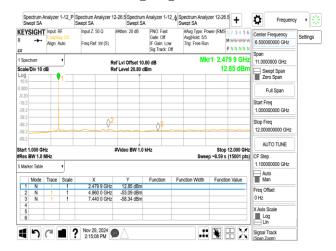
BLE 500K 2402MHz



BLE 500K 2442MHz



BLE 500K 2480MHz



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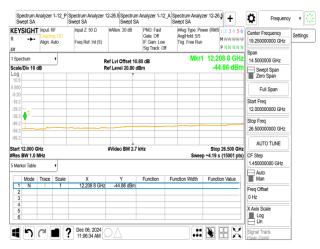


Average (12~26.5GHz)

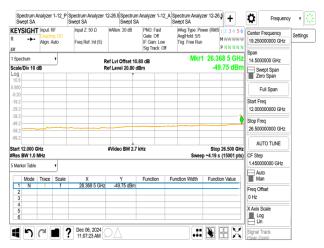
BLE_1M_2402MHz



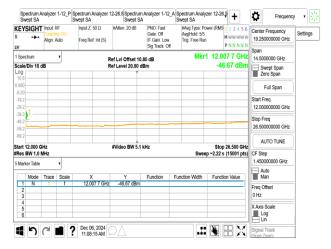
BLE_1M_2442MHz



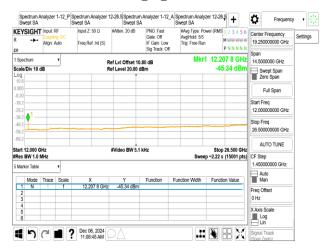
BLE_1M_2480MHz



BLE 2M 2402MHz



BLE 2M 2442MHz



BLE 2M 2480MHz



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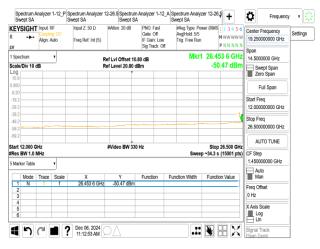
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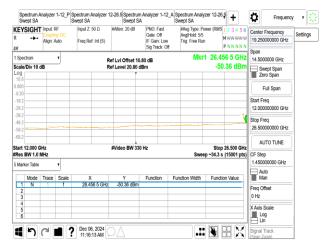
Report No.: TERF2411003330ER Page: 63 of 94



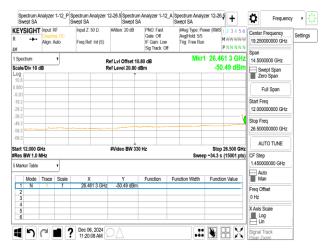
BLE_125K_2402MHz



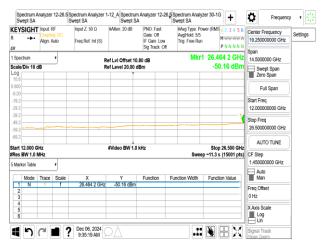
BLE 125K 2442MHz



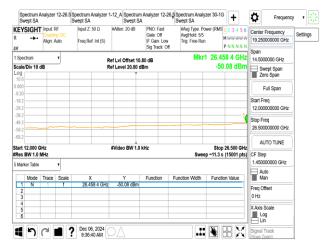
BLE_125K_2480MHz



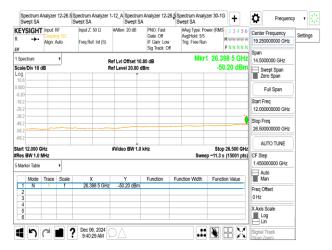
BLE_500K_2402MHz



BLE 500K 2442MHz



BLE_500K_2480MHz



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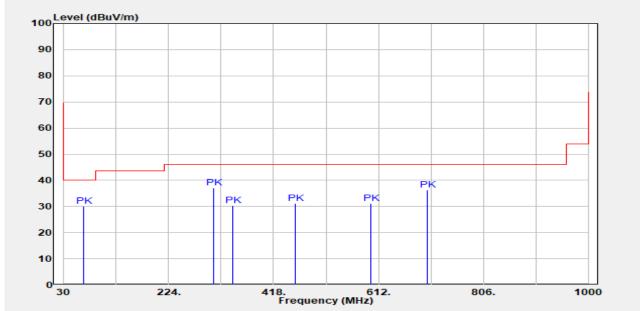
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Radiated Spurious Emission 11.4.3

Report Number	:TERF2411003330ER	Test Site	:SAC 3
Operation Mode	:BLE 1M	Test Date	:2024-11-18
Test Frequency	:2442 MHz	Temp./Humi.	:24.5°C/60%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
•	Mode	Reading Level		FS	@3m	Ū
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
		αDμ v	uВ	ασμν/m	ασμν/m	UD
		10.00		~~~~	10.00	
65.89	Peak	40.09	-10.14	29.95	40.00	-10.05
306.45	Peak	43.91	-6.79	37.12	46.00	-8.88
342.34	Peak	36.65	-6.26	30.39	46.00	-15.61
458.74	Peak	34.99	-3.82	31.17	46.00	-14.83
597.45	Peak	32.38	-1.29	31.09	46.00	-14.91
703.18	Peak	35.80	0.40	36.20	46.00	-9.80

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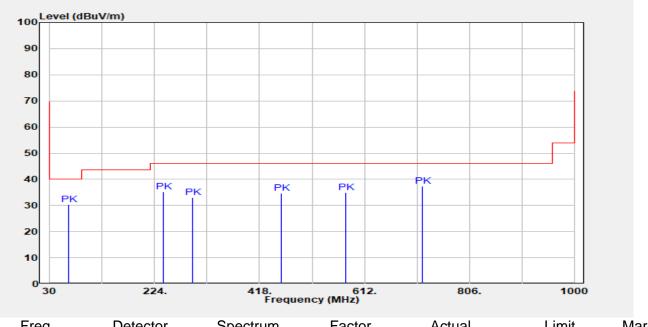
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Report No.: TERF2411003330ER Page: 65 of 94



Report Number	:TERF2411003330ER
Operation Mode	:BLE 1M
Test Frequency	:2442 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC 3
Test Date	:2024-11-18
Temp./Humi.	:24.5°C/60%
Antenna Pol.	:Horizontal
Engineer	:Nick Lin



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
_	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
-							
	64.92	Peak	40.19	-9.96	30.23	40.00	-9.77
	240.49	Peak	44.41	-9.08	35.33	46.00	-10.67
	294.81	Peak	39.99	-7.06	32.93	46.00	-13.07
	457.77	Peak	38.49	-3.83	34.66	46.00	-11.34
	578.05	Peak	36.77	-1.80	34.97	46.00	-11.03
	719.67	Peak	36.37	0.92	37.29	46.00	-8.71

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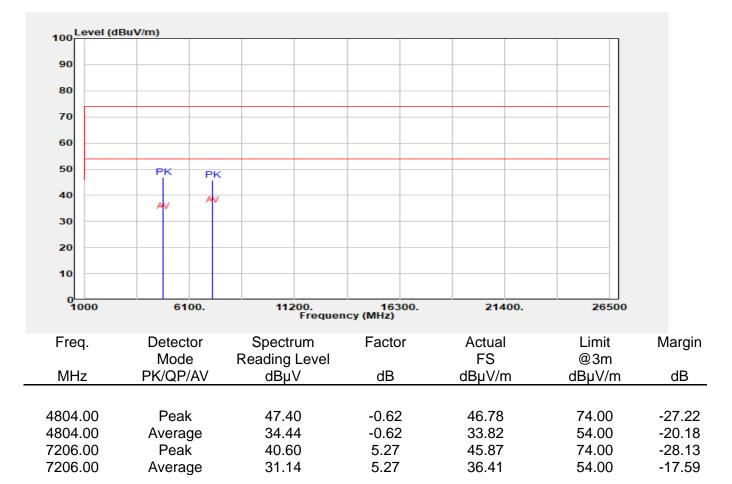
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Report Number	:TERF2411003330ER
Operation Mode	:BLE 1M
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:H Plane

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Vertical Engineer :Nick Lin



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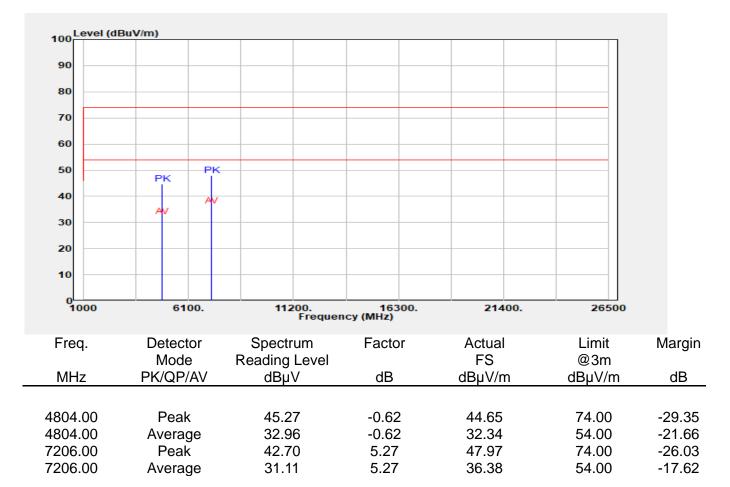
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Report Number	:TERF2411003330ER
Operation Mode	:BLE 1M
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:H Plane

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Horizontal Engineer :Nick Lin



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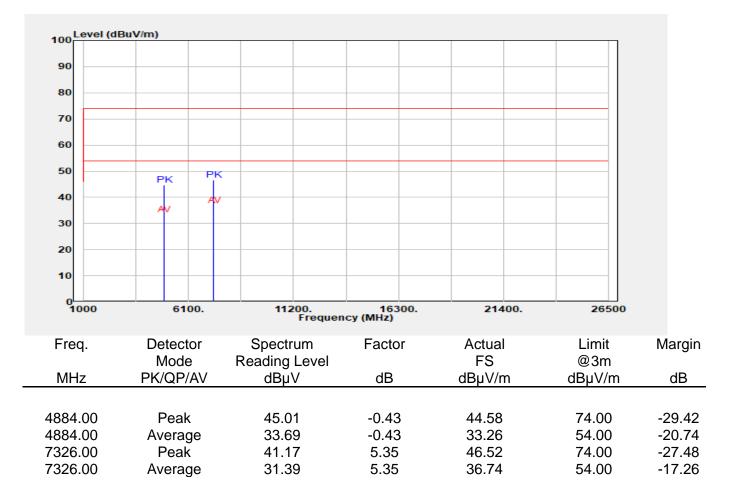
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Report Number	:TERF2411003330ER
Operation Mode	:BLE 1M
Test Frequency	:2442 MHz
Test Mode	:Tx
EUT Pol	:H Plane

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Vertical Engineer :Nick Lin



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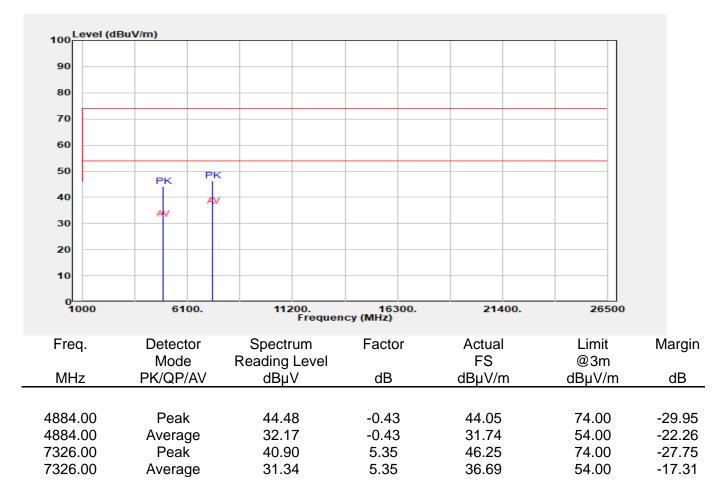
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Report Number	:TERF2411003330ER
Operation Mode	:BLE 1M
Test Frequency	:2442 MHz
Test Mode	:Tx
EUT Pol	:H Plane

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Horizontal Engineer :Nick Lin



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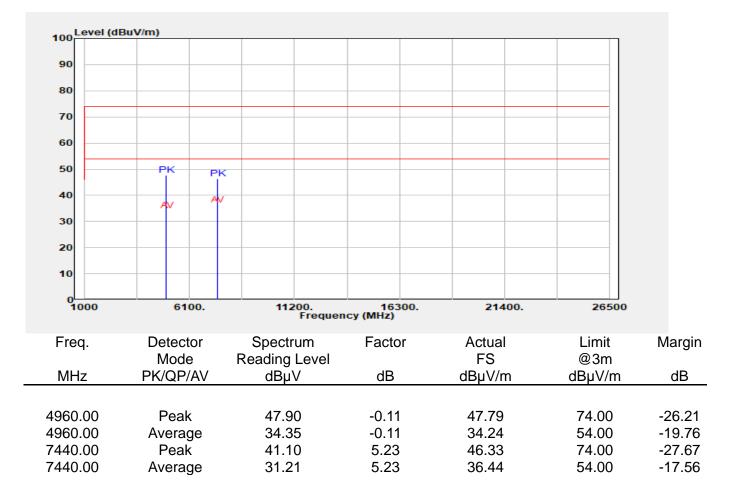
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Report Number	:TERF2411003330ER
Operation Mode	:BLE 1M
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:H Plane

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Vertical Engineer :Nick Lin



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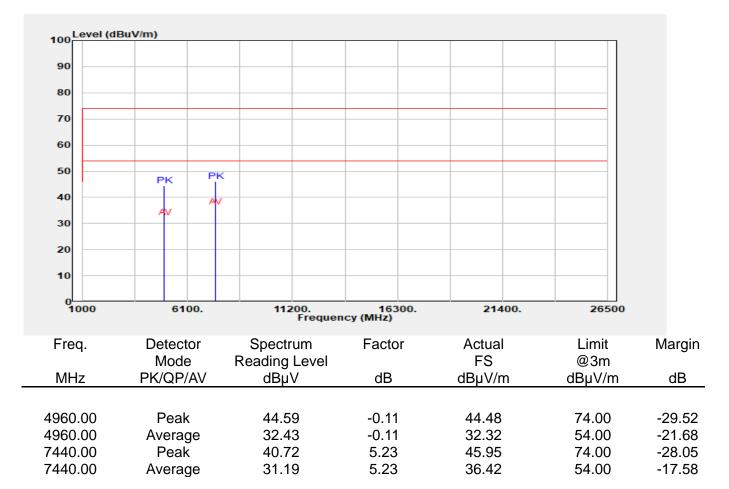
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Report Number	:TERF2411003330ER
Operation Mode	:BLE 1M
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:H Plane

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Horizontal Engineer :Nick Lin



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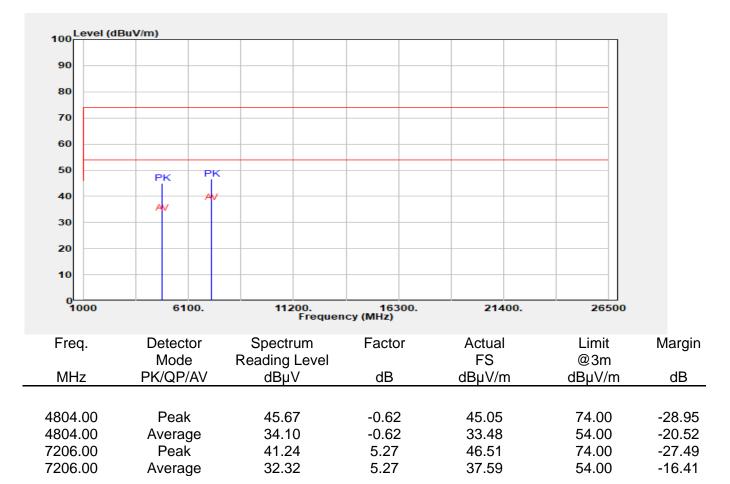
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Report Number	:TERF2411003330ER
Operation Mode	:BLE 2M
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:H Plane

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Vertical Engineer :Nick Lin



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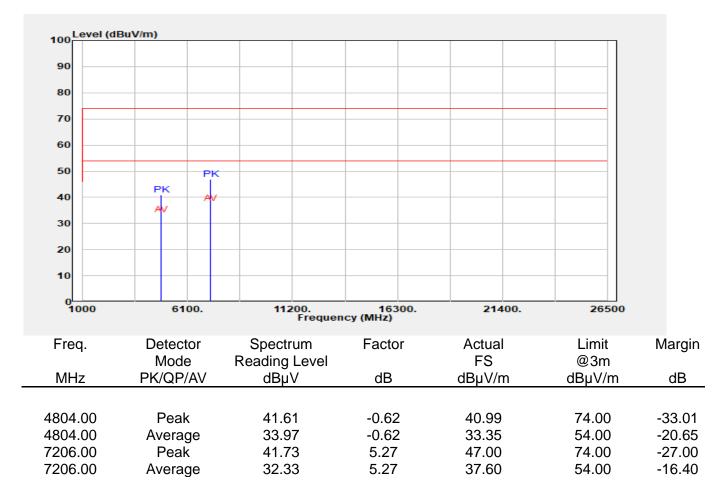
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Report No.: TERF2411003330ER Page: 73 of 94



Report Number	:TERF2411003330ER
Operation Mode	:BLE 2M
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:H Plane

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Horizontal Engineer :Nick Lin



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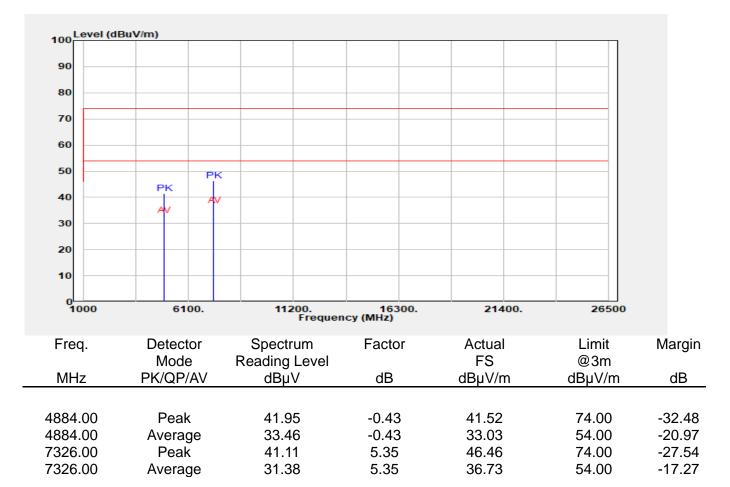
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Report No.: TERF2411003330ER Page: 74 of 94



Report Number	:TERF2411003330ER
Operation Mode	:BLE 2M
Test Frequency	:2442 MHz
Test Mode	:Tx
EUT Pol	:H Plane

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Vertical Engineer :Nick Lin



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Report Number	:TERF2411003330ER
Operation Mode	:BLE 2M
Test Frequency	:2442 MHz
Test Mode	:Tx
EUT Pol	:H Plane

:SAC 3 Test Site Test Date :2024-11-18 Temp./Humi. :24.5°C/60% Antenna Pol. :Horizontal Engineer :Nick Lin

100 Level (dl	BuV/m)					
90						
90						
80						
70						
60						
50	РК					
40	PK AV					
30	AV					
20						
10						
0 1000	6100.	11200. Frequen	16300. Icy (MHz)	21400.	26500	
Freq.	Detector Mode	Spectrum	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	Reading Level dBµV	dB	dBµV/m	dBµV/m	dB
4884.00	Peak	42.00	-0.43	41.57	74.00	-32.43
4884.00	Average	31.79	-0.43	31.36	54.00	-22.64
7326.00	Peak	41.23	5.35	46.58	74.00	-27.42
7326.00	Average	31.38	5.35	36.73	54.00	-17.27

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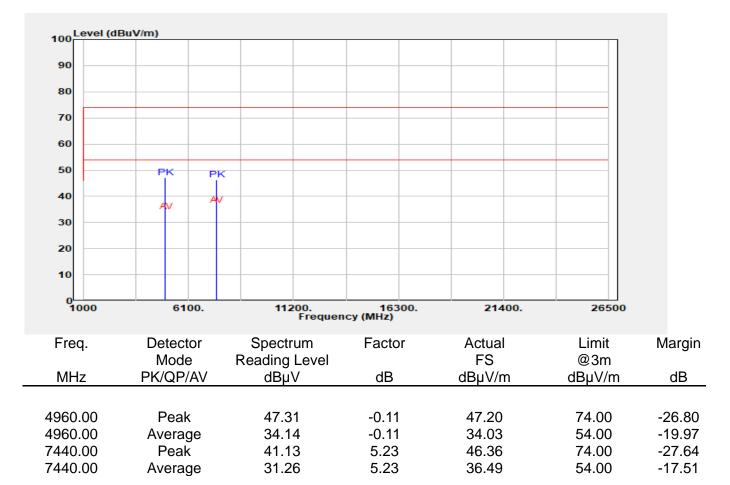
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Report No.: TERF2411003330ER Page: 76 of 94



Report Number	:TERF2411003330ER
Operation Mode	:BLE 2M
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:H Plane

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Vertical Engineer :Nick Lin



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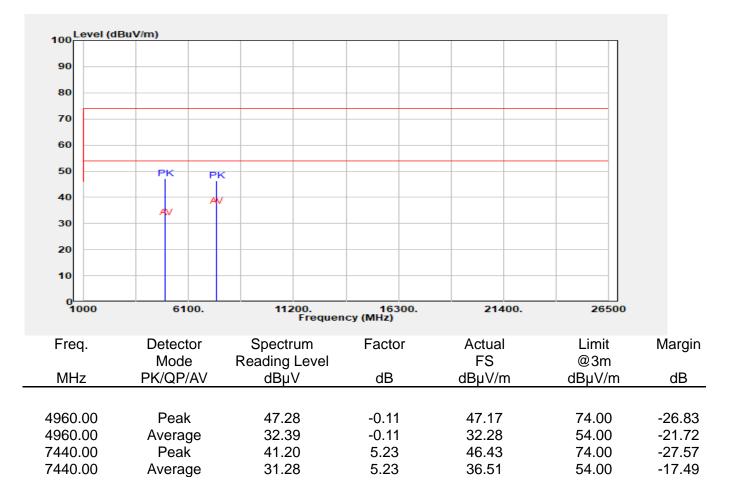
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Report Number	:TERF2411003330ER
Operation Mode	:BLE 2M
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:H Plane

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Horizontal Engineer :Nick Lin



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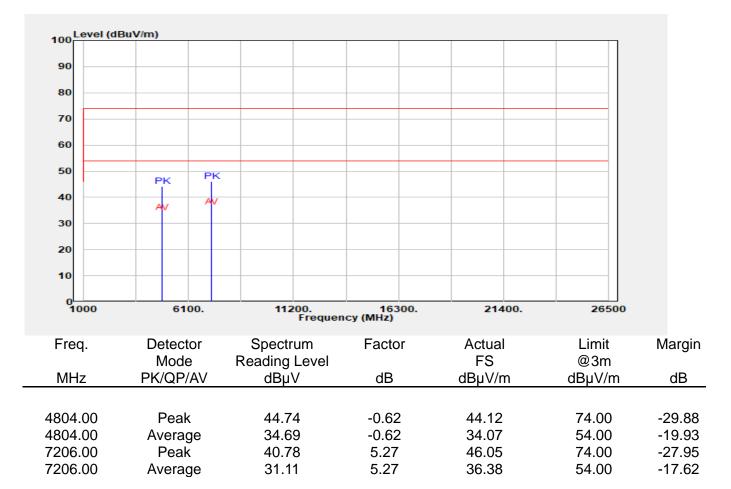
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Report No.: TERF2411003330ER Page: 78 of 94



Report Number	:TERF2411003330ER
Operation Mode	:BLE 125K
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:H Plane
Test Frequency Test Mode	:2402 MHz :Tx

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Vertical Engineer :Nick Lin



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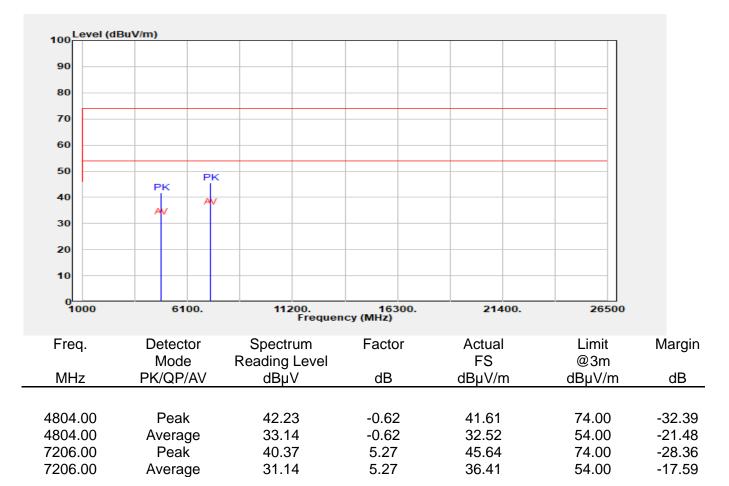
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Report Number	:TERF2411003330ER
Operation Mode	:BLE 125K
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:H Plane

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Horizontal Engineer :Nick Lin



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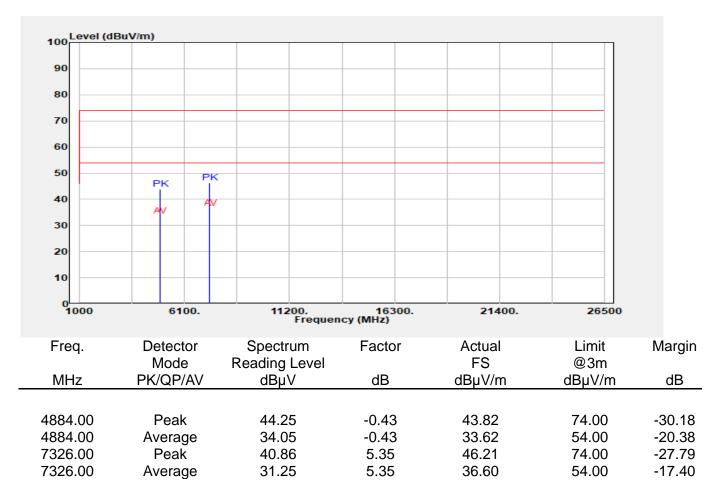
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:TERF2411003330ER
:BLE 125K
:2442 MHz
:Tx
:H Plane

Test Site	:SAC 3
Test Date	:2024-11-18
Temp./Humi.	:24.5°C/60%
Antenna Pol.	:Vertical
Engineer	:Nick Lin



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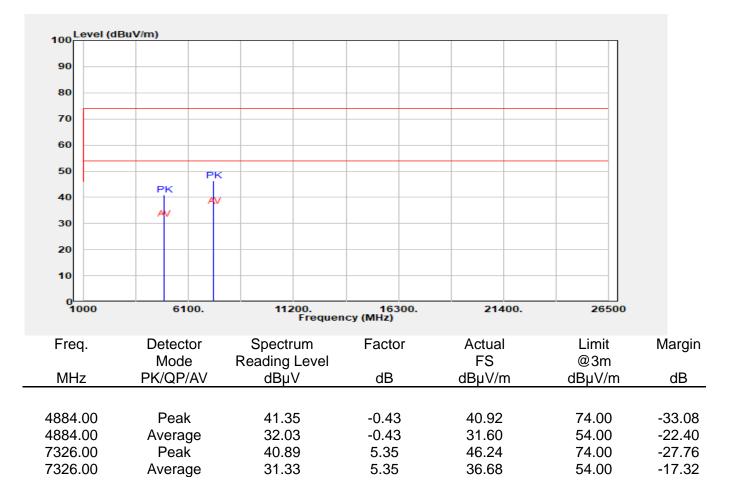
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Report Number	:TERF2411003330ER
Operation Mode	:BLE 125K
Test Frequency	:2442 MHz
Test Mode	:Tx
EUT Pol	:H Plane

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Horizontal Engineer :Nick Lin



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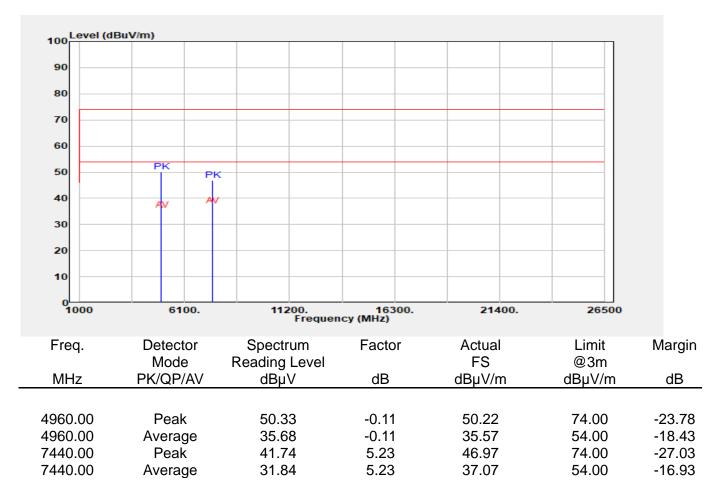
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Report Number	:TERF2411003330ER
Operation Mode	:BLE 125K
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC 3
Test Date	:2024-11-18
Temp./Humi.	:24.5°C/60%
Antenna Pol.	:Vertical
Engineer	:Nick Lin



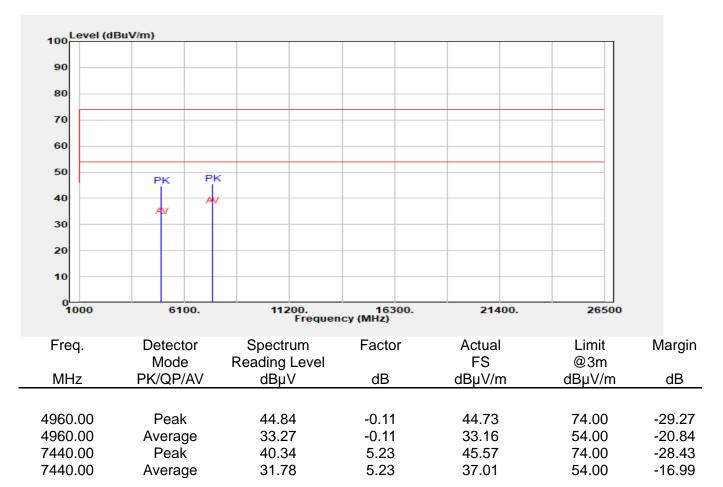
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Test Site	:SAC 3
Test Date	:2024-11-18
Temp./Humi.	:24.5°C/60%
Antenna Pol.	:Horizontal
Engineer	:Nick Lin



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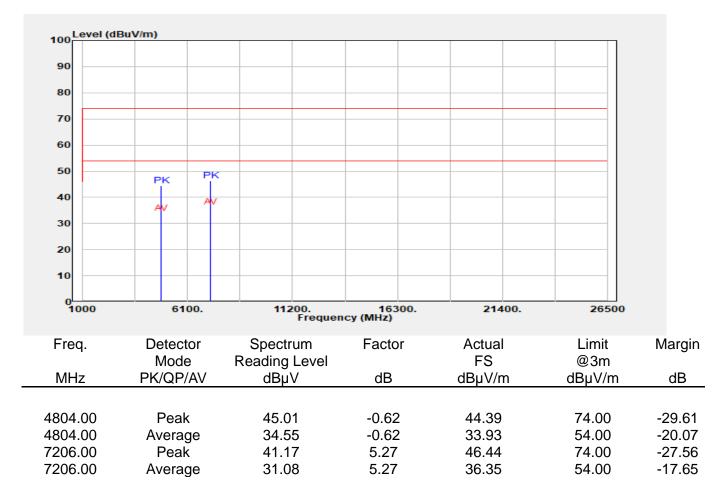
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Report Number	:TERF2411003330ER
Operation Mode	:BLE 500K
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:H Plane

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Vertical Engineer :Nick Lin



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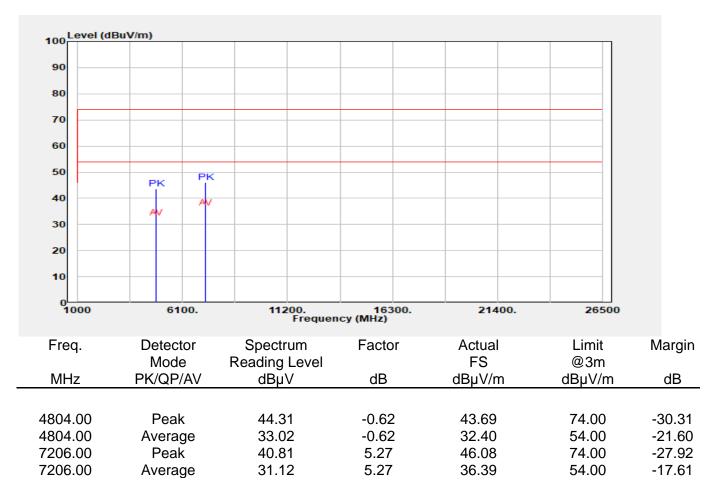
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Report Number	:TERF2411003330ER
Operation Mode	:BLE 500K
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC 3
Test Date	:2024-11-18
Temp./Humi.	:24.5°C/60%
Antenna Pol.	:Horizontal
Engineer	:Nick Lin



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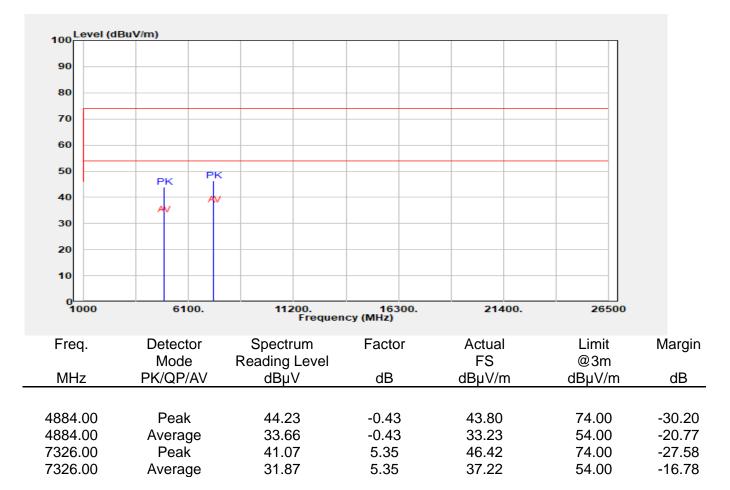
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ERF2411003330ER
_E 500K
142 MHz
(
Plane

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Vertical Engineer :Nick Lin



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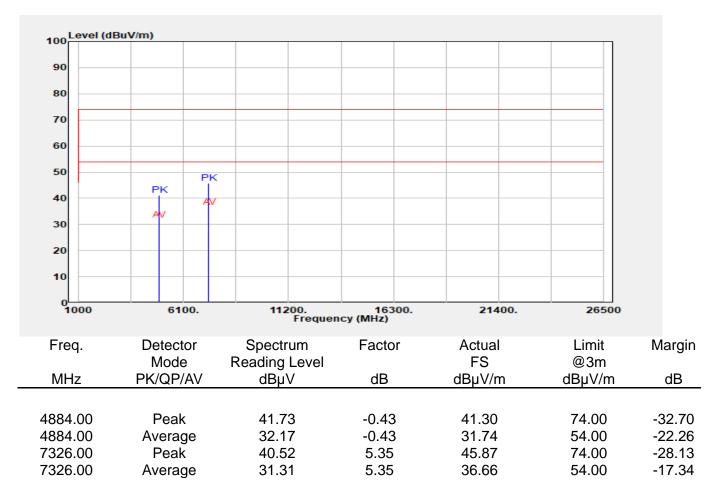
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Report Number	:TERF2411003330ER
Operation Mode	:BLE 500K
Test Frequency	:2442 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC 3
Test Date	:2024-11-18
Temp./Humi.	:24.5°C/60%
Antenna Pol.	:Horizontal
Engineer	:Nick Lin



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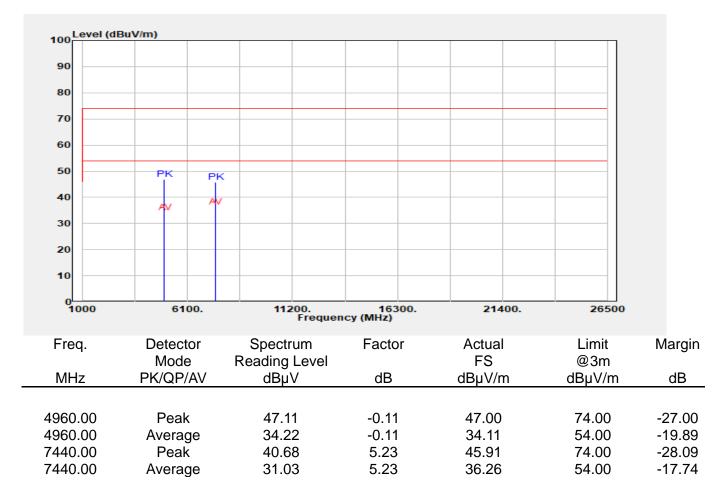
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Report Number	:TERF2411003330ER
Operation Mode	:BLE 500K
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:H Plane

:SAC 3 Test Site Test Date :2024-11-18 :24.5°C/60% Temp./Humi. Antenna Pol. :Vertical Engineer :Nick Lin



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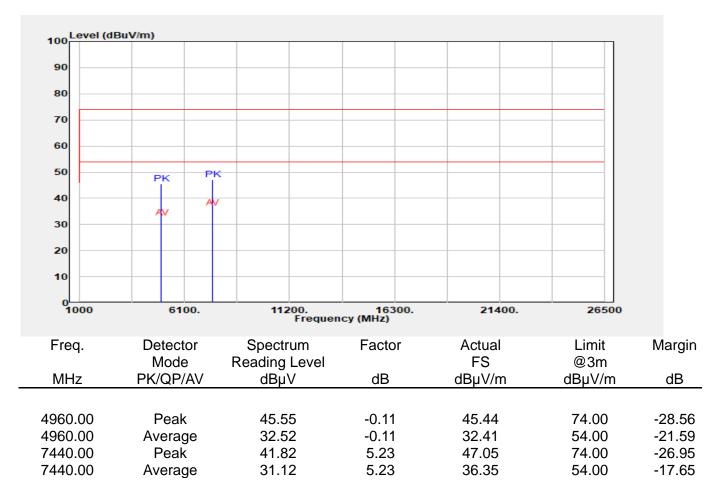
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Report Number	:TERF2411003330ER
Operation Mode	:BLE 500K
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC 3
Test Date	:2024-11-18
Temp./Humi.	:24.5°C/60%
Antenna Pol.	:Horizontal
Engineer	:Nick Lin



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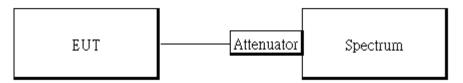
12 POWER SPECTRAL DENSITY

Standard Applicable: 12.1

Per Part 15.247 (e)

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

12.2 Test Setup



12.3 **Measurement Procedure:**

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 3 kHz. & the VBW = 10 kHz
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.

12.4 **Measurement Result:**

DEL INI IIIOUE			
Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	4.47	8	PASS
2442	4.73	8	PASS
2480	-3.40	8	PASS

BI F 1M mode

*Note:

1.cable loss as 10.8dB that offsets in the spectrum

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BLE 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	1.98	8	PASS
2442	2.32	8	PASS
2480	-5.92	8	PASS

*Note:

1.cable loss as 10.8dB that offsets in the spectrum

BLE 125k mode(Payload S=8)

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	6.82	8	PASS
2442	7.38	8	PASS
2480	7.08	8	PASS

*Note:

1.cable loss as 10.8dB that offsets in the spectrum

BLE 500k mode(Payload S=2)

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	7.20	8	PASS
2442	7.39	8	PASS
2480	7.10	8	PASS

*Note:

1.cable loss as 10.8dB that offsets in the spectrum

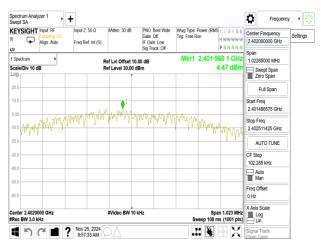
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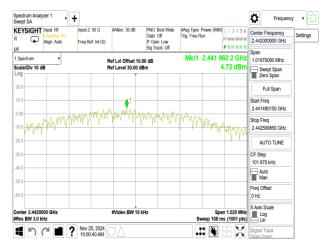
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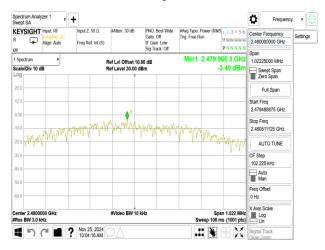
PSD_BLE 1M_LowCH00-2402MHz



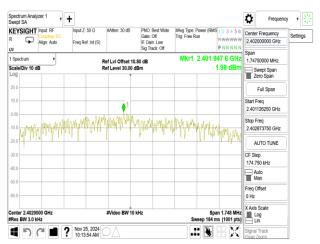
PSD BLE 1M MidCH20-2442MHz



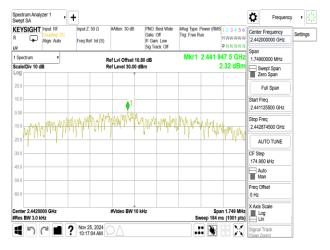
PSD_BLE 1M_HighCH39-2480MHz



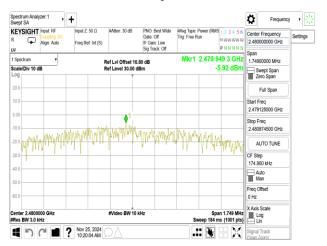
PSD_BLE 2M_LowCH00-2402MHz



PSD_BLE 2M_MidCH20-2442MHz



PSD_BLE 2M_HighCH39-2480MHz



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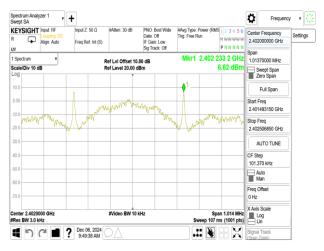
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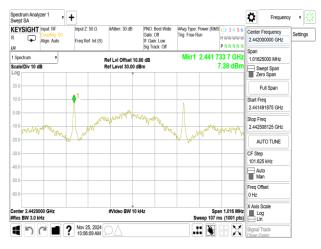
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PSD_BLE 125k_LowCH00-2402MHz



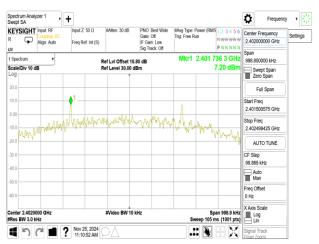
PSD_BLE 125k_MidCH20-2442MHz



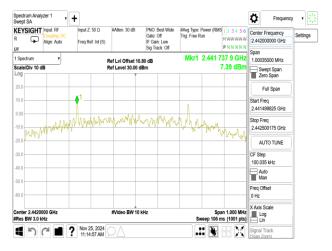
PSD_BLE 125k_HighCH39-2480MHz



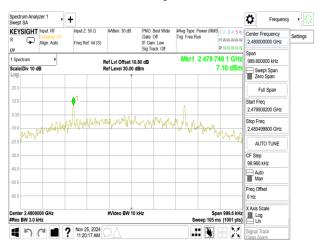
PSD_BLE 500k_LowCH00-2402MHz



PSD_BLE 500k_MidCH20-2442MHz







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13 ANTENNA REQUIREMENT

13.1 **Standard Applicable:**

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.

13.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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