

FCC ID: 2BCZ8-CUNIT 18220WC30206101 Page 1 of 40 Report No.:

FCC Test Report

Quell Tech Ltd. **Applicant**

Lincoln House, 1-3 Brixton Road, London, SW9 **Address**

6DE, United Kingdom

Quell Impact Product Name

: Nov. 06, 2023 **Report Date**



ce Laboratory Limited









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TEST REPORT

Applicant : Quell Tech Ltd.

Manufacturer : Gadget Lab international Co.,Ltd

Product Name : Quell Impact

Test Model No. : CUnit

Reference Model No. : N/A

Trade Mark : N/A

Rating(s) : Input: 5V=450mA(with DC 3.7V, 550mAh battery inside)

Test Standard(s) : 47 CFR Part 15.247

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt:	Sept. 21, 2023
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Date of Test: Sep	ot. 21, 2023 to Oct. 07, 2023
And Anbotek Anbotek Anbotek An	por Anborek Anborek Anb
k hotek Anbotek Anbo	Vian xiu Chen
Prepared By:	Anberr Kan ntek Anbotek An
	(Nianxiu Chen)
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Anbotek Anbot Anbotek Anbotes Anbotes	dward pan
Approved & Authorized Signer:	botek Anbotek Anbo
	(Edward Pan)



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Revision History

Report Version	Description	Issued Date
Anbore R00 potek An	Original Issue.	Nov. 06, 2023
k Anbotek Anbotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Anb
ore Ambotek Anbotek	Anbotek Anbotek Anbot	tek Anbotek Anboter





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1. General Information

1.1. Client Information

211-	(
Applicant	:	Quell Tech Ltd.
Address	:	Lincoln House, 1-3 Brixton Road, London, SW9 6DE, United Kingdom
Manufacturer	:	Gadget Lab international Co.,Ltd
Address	:	Room 805, B&H Plaza, 1077 Nanhai Ave. Shekou, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Quell Impact
Test Model No.	:	CUnit hotek Anborek Anborek Anborek Anborek
Reference Model No.		N/A Anbotek Anbotek Anbotek Anbotek Anbotek A
Trade Mark	:	N/Ask Anbore Annotek Anborek Anborek
Test Power Supply	:	AC 120V60Hz for Adapter/ DC 3.7V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbo
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 botek Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type		PCB Antenna Antone Anto
Antenna Gain(Peak)	:	3.71 dBi, nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek

Remark:

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.







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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.	
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J	





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1.4. Operation channel list

			VUD.				
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
A O OTON	2402	20	2422	40 botek	2442	60	2462
1 _{Anbore}	2403	× 21 00	2423	41	2443	61	2463
rek 2 Anb	2404	22	otel 2424 Mbo	42	2444	62 And	2464
Note N	2405	23	2425	43	2445	63	2465
4	2406	¹⁰⁰ 24	2426	Arrboid4	2446	64	2466
Anbo 5	2407	25	2427	45	2447	65	2467
A 6	2408	26	2428	46 o le le	2448	66	2468
Zupore.	2409	27 _{Anbote}	2429	47 ₀₀ 0	2449	67	2469 No ⁵¹
iek 8 Aupo	2410	10 28 NO	2430	48	ote 2450 And C	68	2470
hotek 9 A	2411	29	2431	49	2451	69 P	2471
10	2412	30	2432	Anborto	2452	Anb 70	2472
11,ex	2413	And 31	2433	_A n 51	2453	7.71 tek	2473
A 12 15K	2414	32	2434	52 ⁰	2454	72,50tek	2474
13	2415	33 nb o 1	2435	K 53 _{Anbor}	2455	_{ek} 73 _{nbo}	2475 both
14 Anbo	2416	hek 34 Anb	2436	otek 54 Ant	2456 Andrew	74	2476 M
otek 15 An	2417	, ot 0 35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	Anbo 76	2478
17°K	2419	37	2439	Anbot	2459	77	2479
18 orek	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59 nboh	2461	ek - unbot	- Aupo

1.5. Description of Test Modes

Pretest Modes	Descriptions
Anhotek TM1°tek	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
Anborek TM2 nborek	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.
TM3	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
TM4	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
TM5	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
And TM6 borek	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.





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1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Occupied Bandwidth	925Hz nborek Anborek
Conducted Output Power	0.76dB Arbonet Arbonet Arbone
Conducted Spurious Emission	n1.24dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.





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1.7. Test Summary

ye.	000
abore / All	P ,
Mode1,2,3	P ^{Anb}
Mode1,2,3	P
Mode1,2,3	nbott Pk
Mode4,5,6	Anbor P
Mode4,5,6	A P
Mode4,5,6	Panbo
Mode1,2,3,4,5,6	PAR
Mode1,2,3	P P
Mode1,2,3	Anboye
Mode1,2,3	MP
	Mode1,2,3 Mode4,5,6 Mode4,5,6 Mode4,5,6 Mode4,5,6 Mode1,2,3,4,5,6 Mode1,2,3 Mode1,2,3

N: N/A, not applicable





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1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.:184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.





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1.10. Test Equipment List

Cond	ucted Emission at A	C power line				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
بر ا د 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2022-10-23	2023-10-22
zek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2022-10-13	2023-10-12
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	tek /Anbotek	ek apotek

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

Item	Item Equipment Manufacturer		Model No.	Serial No.	Last Cal.	Cal.Due Date
1	MXG RF Vector Signal Generator	Agilent	N5182A	MY481806 56	2022-10-13	2023-10-12
2	Power Meter	Agilent	N1914A	MY500011 02	2022-10-26	2023-10-25
3	DC Power Supply	IVYTECH	IV3605	1804D360 510	2022-10-22	2023-10-21
4 4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
5	Oscilloscope	Tektronix	MDO3012	C020298	2022-10-19	2023-10-18

	edge emissions (Ra sions in frequency ba		Aupolek	Anbotek	Aupo, ek	Anbotek Anb
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
^{Anbo}	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2022-10-13	2023-10-12
4 3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4 EMI Test Software EZ-EMC		SHURPLE	N/A	N/A	Aupotek b	abotek A
nb5 ^{tek}	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2022-10-23	2023-10-22
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
7 A.C	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24







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Emis	sions in frequency ba	ands (below 1GHz)	Anbore	Vun Potek	Anborek	Vupo, Vek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	Pre-amplifier	SONOMA	310N	186860	2022-10-23	2023-10-22
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
nb4 ^{ek}	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Aupoter	And





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2. Antenna requirement

Test Requirement:

Refer to 47 CFR Part 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.

2.1. Conclusion

The antenna is a **PCB antenna** which permanently attached, and the best case gain of the antenna is 3.71 **dBi** . It complies with the standard requirement.





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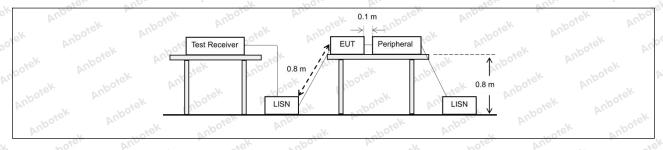
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the reback onto the AC power line on ar band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage tha by frequency or frequencie t exceed the limits in the fo	nected to the at is conducted as, within the collowing table, as			
spoick Aupon	Frequency of emission (MHz)	Conducted limit (dBµV)				
YII.	Anbore Anbore	Quasi-peak	Average			
Aupor Air	0.15-0.5	66 to 56*	56 to 46*			
Test Limit:	0.5-5	56 Hotek An	46			
Will work	5-30 And 1	60	50 ter And			
k Anbors Ar.	*Decreases with the logarithm of the frequency.					
Test Method:	ANSI C63.10-2020 section 6.2	Projek Aupore	And			
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unline conducted emissions from the conducted emission					

3.1. EUT Operation

Operating Envi	ronment:	Aupo, ok	bojek .	Aupote,	And	nboiek	Anborr
Test mode:	hopping) w 2: TX-π/4-I (non-hoppi 3: TX-8DP	rith GFSK ma DQPSK (Nor ng) with π/4	odulation. n-Hopping): K DQPSK mod oping): Keep	eep the EU ulation.	ontinuously tran T in continuousl continuously tra	ly transmittino	g mode

3.2. Test Setup





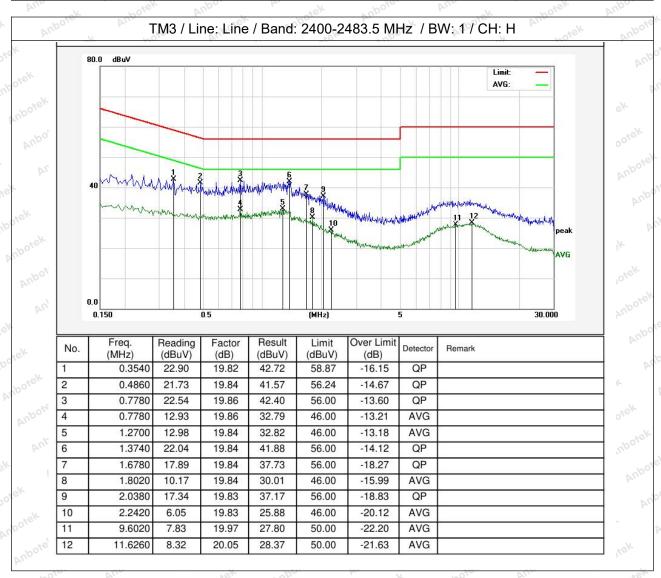
Hotline



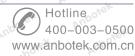
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3.3. Test Data

Temperature: 23.2 °C Humidity: 56.8 % Atmospheric Pressure: 101 kPa



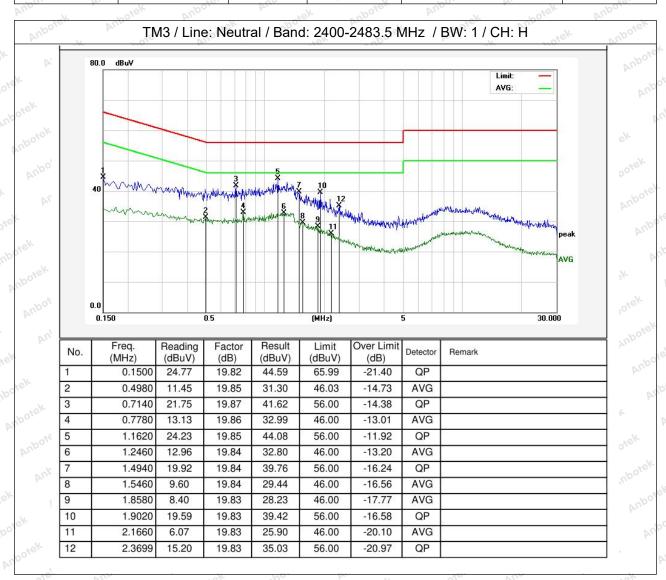






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Temperature: 23.2 °C Humidity: 56.8 % Atmospheric Pressure: 101 kPa







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4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
rest requirement.	
abotek Anbo.	Refer to 47 CFR 15.215(c), intentional radiators operating under the
	alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to
Test Limit:	ensure that the 20 dB bandwidth of the emission, or whatever bandwidth
rest Limit.	may otherwise be specified in the specific rule section under which the
	equipment operates, is contained within the frequency band designated in
upotek Aupo,	the rule section under which the equipment is operated.
To Selvetto al Anboren	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements,
Test Method:	use the procedure in 6.9.3. Frequency hopping shall be disabled for this test.
Anbo	The occupied bandwidth is the frequency bandwidth such that, below its
	lower and above its upper frequency limits, the mean powers are each equal
	to 0.5% of the total mean power of the given emission. The following
	procedure shall be used for measuring 99% power bandwidth:
	a) The instrument center frequency is set to the nominal EUT channel center
	frequency. The frequency span for the spectrum analyzer shall be between
	1.5 times and 5.0 times the OBW.
	b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to
	5% of the OBW, and VBW shall be at least three times the RBW, unless
Sorek Anbore	otherwise specified by the applicable requirement.
	c) Set the reference level of the instrument as required, keeping the signal
	from exceeding the maximum input mixer level for linear operation. In
	general, the peak of the spectral envelope shall be more than [10 log
otek Aupa	(OBW/RBW)] below the reference level. Specific guidance is given in
	4.1.6.2.
Dragadura, "otek	d) Step a) through step c) might require iteration to adjust within the
Procedure:	specified range.
	e) Video averaging is not permitted. Where practical, a sample detection and
	single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
	f) Use the 99% power bandwidth function of the instrument (if available) and
	report the measured bandwidth.
	g) If the instrument does not have a 99% power bandwidth function, then the
	trace data points are recovered and directly summed in linear power terms.
	The recovered amplitude data points, beginning at the lowest frequency, are
	placed in a running sum until 0.5% of the total is reached; that frequency is
	recorded as the lower frequency. The process is repeated until 99.5% of the
	total is reached; that frequency is recorded as the upper frequency. The 99%
	power bandwidth is the difference between these two frequencies.
	h) The occupied bandwidth shall be reported by providing spectral plot(s) of
	the measuring instrument display; the plot axes and the scale units per
	division shall be clearly labeled. Tabular data may be reported in addition to
	the plot(s).
	1 20

4.1. EUT Operation

	Operating Envir	onment:	Anboiek	Aupo.	w.	Anbore.	Yun	anboie
e)	Test mode:	1: TX-GFSK hopping) wit			ne EUT in co	ntinuously tra	ansmitting mode	(non-





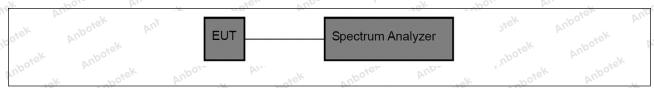


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2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.

3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

4.2. Test Setup



4.3. Test Data

Tempe	erature: 25.	3°C	Humidity:	48.6 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.





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5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: Anborek Anborek	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5
Anbotek Anbotek Anbotek Anbotek Anbotek Anbot	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a
	 hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak.
Procedure: Anbotek Anbotek Anbotek Anbotek Anbotek	f) Trace: Max-hold. g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission.
	 i) The indicated level is the peak output power, after any corrections for external attenuators and cables. j) A spectral plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied
Wypotek Wpote	bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

5.1. EUT Operation

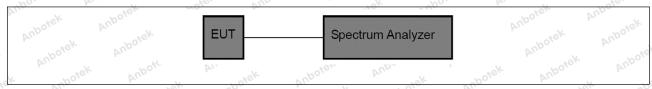
Operating Envi	ronment:				abotek	Auporg
Test mode:	1: TX-GFSK (Nor hopping) with GF 2: TX-π/4-DQPSI (non-hopping) wit 3: TX-8DPSK (No hopping) with 8D	SK modulation. K (Non-Hopping) h π/4 DQPSK m n-Hopping): Ke): Keep the nodulation. ep the EUT	EUT in continu	uously transr	mitting mode





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5.2. Test Setup



5.3. Test Data

10	Temperature: ott	25.3 °C	Humidity:	48.6 %	Atmospheric Pressure:	101 kPa
	remperature.	25.5 6	riumuity.	40.0 /0	Autiospheric Flessule.	IUIKFA

Please Refer to Appendix for Details.





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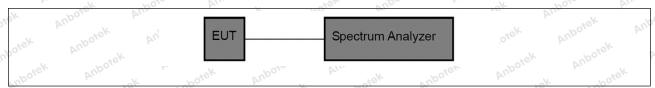
6. Channel Separation

inpr in in	1 700, W. A. 2046, W.D. 1 36K 700,
Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Method:	ANSI C63.10-2020, section 7.8.2
Anborek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

6.1. EUT Operation

Operating Envi	ronment:	Anbe	apoiek	Aupor	Ar. hotek	Anbo
Test mode:	4: TX-GFSK (Hopping): with GFSK modulation,. 5: TX-π/4-DQPSK (Hopping) with π/4 DQP 6: TX-8DPSK (Hopping with 8DPSK modulation	ping): Keep the SK modulation.): Keep the EUT	EUT in cont	inuously trar	smitting mode	ek K

6.2. Test Setup



6.3. Test Data

Temperature:	25.3 °C	Humidity:	48.6 %	Atmospheric Pressure:	101 kPa
11	1.010	,	"SL "(0)	1 1 1	10,00

Please Refer to Appendix for Details.









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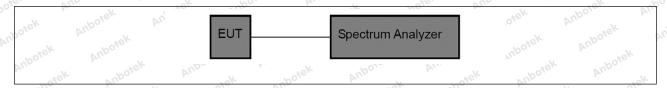
7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.3
Anborek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
	It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.

7.1. EUT Operation

Operating Envi	ronment: Anborek Anborek Anborek Anborek
Test mode:	 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. 5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation. 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

7.2. Test Setup







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7.3. Test Data

	-0° -0°		. 01	DI.	~0~	
Temperature:	2E 2 °C	Llumiditus 🕬	10 C 0/	Atmospheric Pressure:	101 kDa	
remperature.	1020.0 C 11	Humidity:	40.0 70	Almosphenc Pressure.	i iu i kra	
		460		1 11111 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

Please Refer to Appendix for Details.





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8. Dwell Time

O. Dweil Mille	Lanbotek Anbo Anbotek Anbotek Anbotek
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.4
ek Anbotek Anbotek Anbotek	The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of the last transmission.
	The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period.
otek Anbotek	The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary with the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels.
	Use the following spectrum analyzer settings to determine the dwell time per hop:
	 a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected transmission time per hop. c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the last transmissi
	last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = 1/hopping rate) should achieve this.
	 d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel. e) Detector function: Peak. f) Trace: Clear-write, single sweep.
Anbotek Anbo	g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between









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these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is $3 / 0.5 \times 10$, or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

8.1. EUT Operation

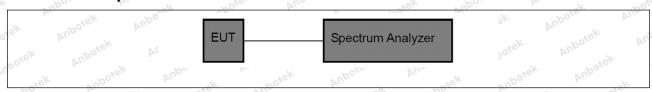
Operating Environment:

4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation..

Test mode:

- 5: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation.
- 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

8.2. Test Setup



8.3. Test Data

Temperature:	25.3 °C	Humidity:	48.6 %	Atmospheric Pressure:	101 kPa	37.6
		-717				

Please Refer to Appendix for Details.







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9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: Anborek Anborek Anborek Anborek Anborek Anborek Anborek Anborek Anborek	Refer to 47 CFR 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.
Test Method:	ANSI C63.10-2020 section 7.8.7
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	7.8.7.1 General considerations To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled.
tek Anbotek Ansotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
ek upotek Anbo	The limit is based on the highest in-band level across all channels measured
Procedure:	using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band
Anbotek Anbor	measurements a separate spectral plot showing the in-band level shall be provided.
Anbotek	When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video bandwidth









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300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.

7.8.7.2 Band-edges

Compliance with a relative limit at the band-edges (e.g., -20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels.

For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

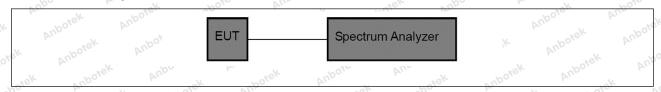
9.1. EUT Operation

Operating Environment:

- 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
- 2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.
- 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
- 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation..
- 5: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation.
- 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

9.2. Test Setup

Test mode:



9.3. Test Data

Temperature:	25.3 °C	Humidity:	48.6 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.







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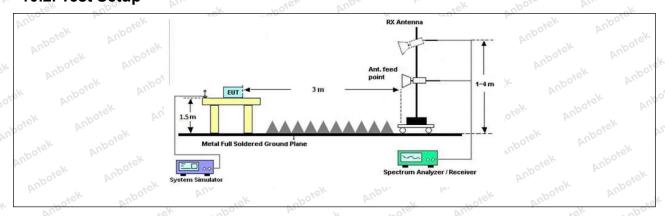
10. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	ly with the
k Aupotek Wilson	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. p. ciek	0.009-0.490	2400/F(kHz)	300 Mbore
aborek Anbo	0.490-1.705	24000/F(kHz)	30 Lotek
atek anboter	1.705-30.0	30° , Albo	30
	30-88	100 **	3,ek nbore
T- Haboter And	88-216	150 **	3
Test Limit:	216-960	200 ***	3 botes And
	Above 960	500 Morek Ambo	3 rek ont
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or d hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.10 Andrew	Anbore. And
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Aupoten Aup

10.1. EUT Operation

Operating Envi	ronment:	hotek Ar	poter. And		anbotek	Anbo.
Test mode:	hopping) with GFS 2: TX-π/4-DQPSk (non-hopping) wit	K (Non-Hopping): K h π/4 DQPSK mod n-Hopping): Keep t	eep the EUT i ulation.	n continuo	usly transm	nitting mode

10.2. Test Setup





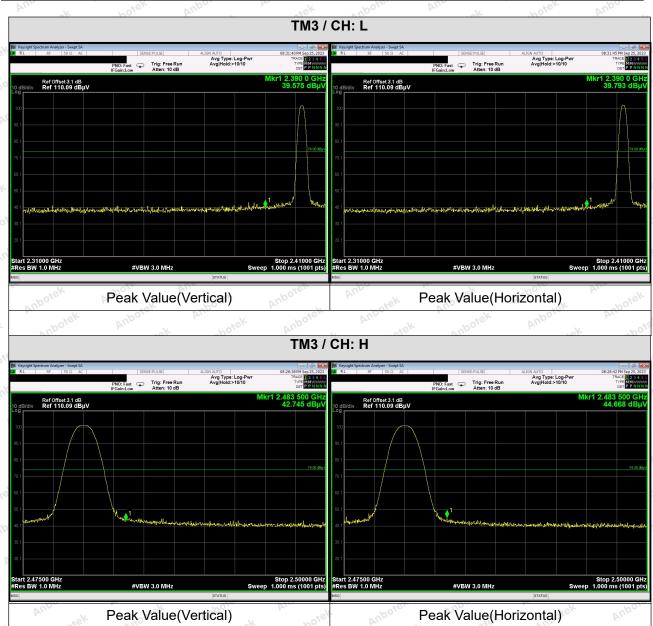




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10.3. Test Data

Temperature: 25.3 °C Humidity: 48.6 % Atmospheric Pressure: 101 kPa









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Average:

Test Mode	Peak Value (dBuV/m)	DCCF	Average Value (dBuV/m)	Limit (dBuV/m)	Polarization	Verdict
TM2 / CLL. I	39.575	-2.24	37.335	54.00	Vertical	Pass
TM3 / CH: L	39.793	-2.24	37.553	54.00	Horizontal	Pass
TM2 / CUL U.S	42.745	-2.26	40.483	54.00	Vertical	otel Pass
TM3 / CH: H	44.668	-2.26	42.406	54.00	Horizontal	Pass

Remark:

- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 1. DCCF=20log(Duty Cycle)
- 2. Average Value=Peak Value+DCCF





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11. Emissions in frequency bands (below 1GHz)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	ly with the
k Aupotek Aupo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. A. otek	0.009-0.490	2400/F(kHz)	300 Mbore
nborek Anbo	0.490-1.705	24000/F(kHz)	30 Lotek
atek upoter	1.705-30.0	30° , Mark	30 400
	30-88	100 **	3,ek nbore
T who is And	88-216	150 **	3
Test Limit:	216-960	200 **	3 botes And
Aupo. W.	Above 960	500 Morek Ambo	3 rek ont
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.6.4	Anbores And
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore Andrew	Aupoten Aup

11.1. EUT Operation

Operating Env	ronment:	Pu.	Anborer	And	upojek	Anbo.
Test mode:	1: TX-GFSK (Nor hopping) with GF 2: TX-π/4-DQPS (non-hopping) wi 3: TX-8DPSK (No hopping) with 8D	SK modulation. K (Non-Hopping) th π/4 DQPSK m on-Hopping): Ke): Keep the E nodulation. ep the EUT ir	UT in continu	ously transr	mitting mode

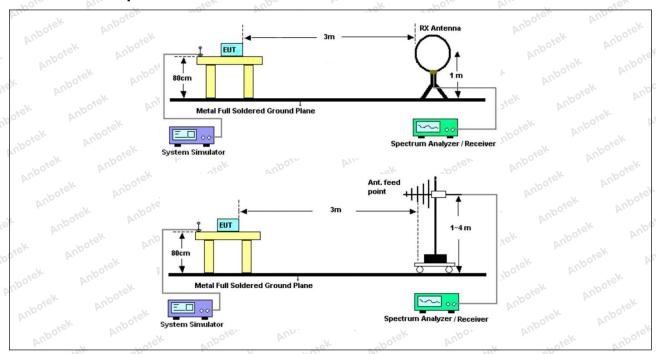






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11.2. Test Setup



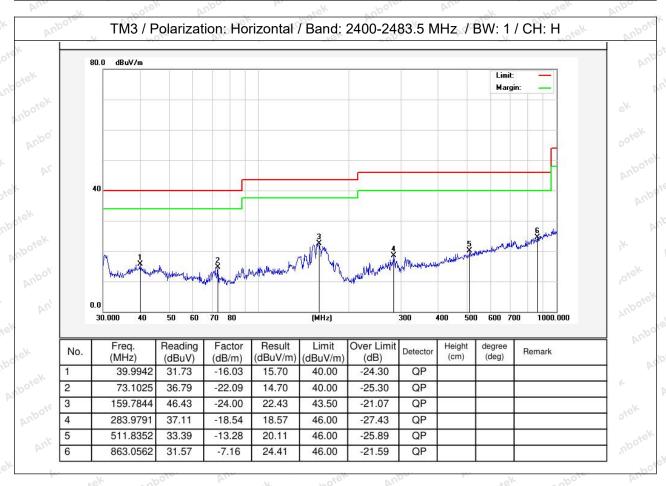




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11.3. Test Data

Temperature: 25 °C Humidity: 42 % Atmospheric Pressure: 99 kPa

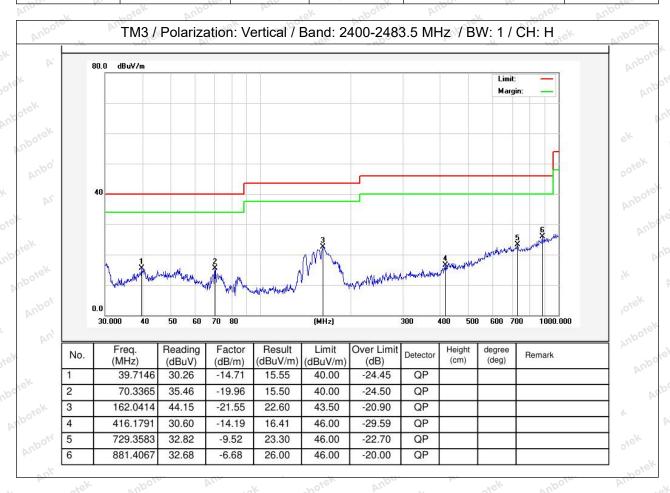






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Temperature: 25 °C Humidity: 42 % Atmospheric Pressure: 99 kPa







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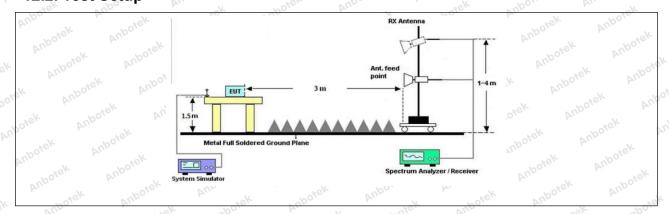
12. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted background $f(x)$ with the radiated emission $f(x)$.	
otek Vupotek Vupot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. K. Potek	0.009-0.490	2400/F(kHz)	300
inpoter August	0.490-1.705	24000/F(kHz)	30
A. Otek Anbore	1.705-30.0	30	30
Anbo K hotek	30-88	100 **	3,ok nbore
Tataloren And	88-216	150 **	3
Test Limit:	216-960	200 **	3 pore And
Aupo, W.	Above 960	500 hotek Anbou	3 rek
Upotek Vupotek Vupotek Vupotek Vupotek Vupotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.6.4 more to the same to the	Anborer Anb
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore Andrew	Aupoten Aup

12.1. EUT Operation

Operating Env	ronment:	Pu.	Anborer	And	upojek	Anbo.
Test mode:	1: TX-GFSK (Nor hopping) with GF 2: TX-π/4-DQPS (non-hopping) wi 3: TX-8DPSK (No hopping) with 8D	SK modulation. K (Non-Hopping) th π/4 DQPSK m on-Hopping): Ke): Keep the E nodulation. ep the EUT ir	UT in continu	ously transr	mitting mode

12.2. Test Setup









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12.3. Test Data

Temperature: 25.3 °C	Humidity: 48.6 %	Atmospheric Pressure:	101 kPa
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* X	Po, VIII		TM2 / CH. I	Ŧ	-h ⁰ / ₀ / ₀	<i>b</i>
			TM3 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.76	15.27	44.03	74.00	-29.97	Vertical
7206.00	29.65	18.09	47.74	74.00	-26.26	Vertical
9608.00	31.02	23.76	54.78	74.00	-19.22	Vertical
12010.00	Aupole * Al	, e ^V	abotek Anb	74.00	otek Anboti	Vertical
14412.00	"Upo#sk	Anbo, ok	hojek b	74.00	ick on	Vertical
4804.00	29.00	15.27	44.27	74.00	-29.73	Horizontal
7206.00	30.41	18.09	48.50	74.00	-25.50	Horizontal
9608.00	28.92	23.76	52.68	74.00	-21.32	Horizontal
12010.00	otek * Aupo	- V- 100	iek Vupoje,	74.00	botek	Horizontal
14412.00	woick*	Ooter Amb	sek spo	74.00	-k hote	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	18.14	15.27	33.41	54.00	-20.59	Vertical
7206.00	18.68	18.09	36.77	54.00	-17.23	Vertical
9608.00	20.04	23.76	43.80	54.00	-10.20	Vertical
12010.00	- O'- O'-	Aupolei Au	iek .	54.00	by.	Vertical °
14412.00	And *ek	abotek	Aupo, K	54.00	ipotes And	Vertical
4804.00	17.35	15.27	32.62	54.00	-21.38	Horizontal
7206.00	19.47	18.09	37.56	54.00	-16.44	Horizontal
9608.00	18.23	23.76	41.99	54.00	-12.01	Horizontal
12010.00	** * *	otek Aupor	- K 1-04	54.00	Aug. "ek	Horizontal
14412.00	[*]	wek ant	ofer And	54.00	ek Aupor	Horizontal



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				hotek	Anbor	*ek
			TM3 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	28.78	15.42	44.20	74.00	-29.80	Vertical
7323.00	29.50	18.02	47.52	74.00	-26.48	Vertical
9764.00	30.03	23.80	53.83	74.00	-20.17	Vertical
12205.00	ek * abotek	Anbor	hotek	74.00	Aug	Vertical
14646.00	* * *	ick Aupole	Vun	74.00	Vupo	Vertical
4882.00	28.70	15.42	44.12	74.00	-29.88	Horizontal
7323.00	30.40	18.02	48.42	74.00	-25.58	Horizontal
9764.00	28.62	23.80	52.42	74.00	-21.58	Horizontal
12205.00	* ořek	Anboie	Ant	74.00	YUpo, ok	Horizontal
14646.00	A.* Otek	Anbotek	Aupo.	74.00	Anboid	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	17.87	15.42	33.29	54.00	-20.71	Vertical
7323.00	18.78	18.02	36.80	54.00	-17.20	Vertical
9764.00	19.90	23.80	43.70	54.00	-10.30	Vertical
12205.00	* Anbore	N Diek	anbotek	54.00	aborek	Vertical
14646.00	otek * Anbot	And	sk spojek	54.00	k. potek	Vertical
4882.00	17.26	15.42	32.68	54.00	-21.32	Horizontal
7323.00	19.03	18.02	37.05	54.00	-16.95	Horizontal
9764.00	18.74	23.80	42.54	54.00	11.46 M	Horizontal
12205.00	Anb*otek	Aup. *ek	bojek	54.00	woick a	Horizontal
14646.00	* botek	Anbo	N. Siek	54.00	And	Horizontal





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Le. VUL	atek.	vupo.	N. OK	-hote.	V.U.P.	"tek
			TM3 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	29.05	15.58	44.63	74.00	-29.37 NO	Vertical
7440.00	29.51	17.93	47.44	74.00	-26.56	Vertical
9920.00	30.58	23.83	54.41	74.00	-19.59	Vertical
12400.00	* P. Mark	anboten	And	74.00	Aupo,	Vertical
14880.00	* 400	iek "Upotel	Aupo	74.00	Aupore	Vertical
4960.00	28.77 And	15.58	44.35	74.00	-29.65	Horizontal
7440.00	30.43	17.93	48.36	74.00	-25.64	Horizontal
9920.00	29.30	23.83	53.13	74.00	-20.87	Horizontal
12400.00	AUD * "SK	abotek	Aupo,	74.00	Aupore, Au	Horizontal
14880.00	Vipo,	hotek	Anbore	74.00	abotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	18.99	15.58	34.57	54.00	-19.43	Vertical
7440.00	19.79	17.93	37.72	54.00	-16.28	Vertical
9920.00	20.45	23.83	44.28	54.00	-9.72	Vertical
12400.00	k * "potek	Aupo,	hotek	54.00	And	Vertical
14880.00	* * *	k Aupolo.	Ann	54.00	Vupo.	Vertical
4960.00	18.70	15.58 NO	34.28	54.00	-19.72	Horizontal
7440.00	20.40	17.93	38.33	54.00	-15.67	Horizontal
9920.00	18.64	23.83	42.47	54.00	-11.53	Horizontal
12400.00	* tok	Anbores	Vun Viek	54.00	Ipo. br	Horizontal
14880.00	An*	anbotek	Aupo	54.00	Auport	Horizontal

Remark:

- 1. Result =Reading + Factor
- 2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.
- 3. Only the worst case is recorded in the report.







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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

