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TEST REPORT

Application No.:	ZR/2021/80053
Applicant:	Great Talent Technology Limited
Address of Applicant	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
Manufacturer:	Great Talent Technology Limited
Address of Manufacturer	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
EUT Description:	feature phone
Model No.:	SC3218T
Trade Mark:	SCHOK
FCC ID:	2ALZM-SC3218T
Standards:	47 CFR FCC Part 2, Subpart J
	47 CFR Part 15, Subpart C
Date of Receipt:	2021/11/9
Date of Test:	2021/11/13 to 2021/12/24
Date of Issue:	2021/12/24
Test Result :	PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Sun

Panta Sun Wireless Laboratory Manager



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1 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2021/12/24		Original	

Prepared By	Weller Liu) / Engineer	
Checked By	(Well Wei) / Reviewer	



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2 Test Summary

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Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2013)	Clause 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013)	Clause 4.4	PASS
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.5	PASS
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.6	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.7	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.8	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.9	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.10	PASS
Radiated Spurious	15.247(d);	ANSI C63.10 (2013)	Clause 4.11	PASS
emissions	15.205/15.209	ANOT 000.10 (2010)		1 700
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 4.12	PASS



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3 **General Information**

3.1 Details of Client

Applicant:	Great Talent Technology Limited		
Address of Applicant:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China 518110		
Manufacturer:	Great Talent Technology Limited		
Address of Manufacturer:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China 518110		

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd		
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone		
Post code:	215000		
Test engineer:	Weller Liu, King-p Li, Nature Shen, Tizzy Song		

3.3 Test Facility

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

A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC – Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number:0031225543



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3.4 General Description of EUT

EUT Description:	feature phone	
Model No.:	SC3218T	
Trade Mark:	SCHOK	
Hardware Version:	Q3203_V1.0	
Software Version:	SC3218T_V1.0.0	
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 1 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 78.	
Bluetooth version:	Bluetooth V4.1	
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)	
Modulation Type:	GFSK, π/4DQPSK, 8DPSK	
Number of Channel:	79	
Hopping Channel Type:	Adaptive Frequency Hopping systems	
Sample Type:	⊠Portable Device,	
Antenna Type:	□External, ⊠Integrated	
Antenna Gain*:	⊠Provided by applicant	
	3.01dBi	
RF Cable*:	⊠Provided by applicant	
	1dB	

Remark:

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*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



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					Report No.: Rev.: Page:	SUZR/2021 01 7 of 106	/8005302
		Opera	ation Frequen	cy of each c			
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		•
Remark:					•		

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In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH39)	2441MHz
The Highest channel(CH78)	2480MHz



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3.5 Test Environment

Environment Parameter	101.0 KPa Selected Values During Tests		
Relative Humidity44-46 % RH Ambient		% RH Ambient	
ValueTemperature(°C)Voltage(V)		Voltage(V)	
NTNV	22~23	3.8	
LTNV	-20	3.8	
HTNV	50	3.8	
Remark:			
NV: Normal Voltage			
NT: Normal Temperature			
LT: Low Extreme Test Temperature			
HT: High Extreme Test Temperature			

3.6 Description of Support Units

The EUT has been tested independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement: 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, 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.

15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is integrated and no consideration of replacement. The best case gain of the antenna is 3.01dBi.



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4.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

4.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

4.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

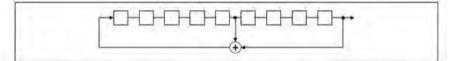
> Number of shift register stages: 9

> Length of pseudo-random sequence: 29 -1 = 511 bits

> Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

20 62 46 77	7 64 8 73	16 75 1



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Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the RF system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels. The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



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4.3 AC Power Line Conducted Emissions

S

Test Requirement:	47 CFR Part 15C Sectio	n 15.207	
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:		Limit (dł	BuV)
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the log	arithm of the frequency.	
Test Procedure:	 room. 2) The EUT was connected impedance Stabilization impedance. The performance of the second plane in the same of multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plane placed on the horizor 4) The test was performed the EUT shall be 0. vertical ground reference plane. The unit under test and mounted on top of the the closest points of and associated equip 5) In order to find the mand all of the interface 	isturbance voltage test was of ected to AC power source the ion Network) which provides a ower cables of all other up and LISN 2, which was bonded way as the LISN 1 for the up the rating of the LISN was no as placed upon a non-metalline. And for floor-standing arra- ntal ground reference plane. ed with a vertical ground refer 4 m from the vertical ground rence plane was bonded to a LISN 1 was placed 0.8 m fr 1 bonded to a ground refer e ground reference plane. This the LISN 1 and the EUT. All ownent was at least 0.8 m from aximum emission, the relative ce cables must be changed aco on conducted measurement.	hrough a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear nits of the EUT were to the ground reference unit being measured. A ultiple power cables to a t exceeded. c table 0.8m above the angement, the EUT was rence plane. The rear of d reference plane. The the horizontal ground om the boundary of the rence plane for LISNs s distance was between other units of the EUT the LISN 2.

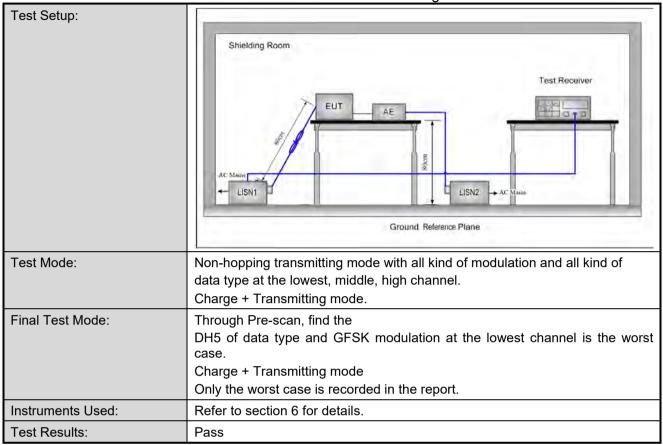


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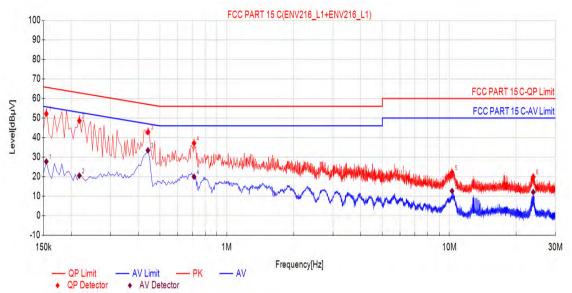
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Final	Final Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1545	9.65	42.56	52.21	65.75	13.54	18.07	27.72	55.75	28.03	PASS
2	0.2175	9.81	38.78	48.59	62.91	14.32	10.71	20.52	52.91	32.39	PASS
3	0.4425	9.55	33.26	42.81	57.01	14.20	23.89	33.44	47.01	13.57	PASS
4	0.7125	9.57	27.56	37.13	56.00	18.87	10.35	19.92	46.00	26.08	PASS
5	10.293	9.63	12.52	22.15	60.00	37.85	3	12.63	50.00	37.37	PASS
6	23.8605	9.31	10.55	19.86	60.00	40.14	2.75	12.06	50.00	37.94	PASS

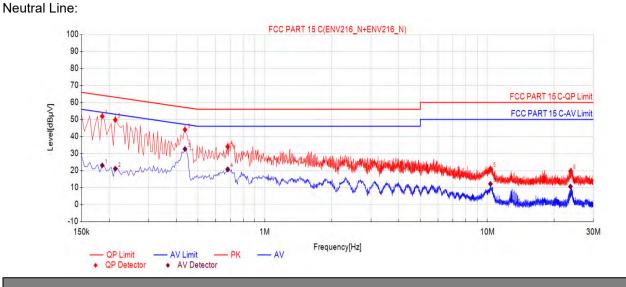
Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1860	9.69	42.23	51.92	64.21	12.29	13.29	22.98	54.21	31.23	PASS
2	0.213	9.68	40.12	49.80	63.09	13.29	11.37	21.05	53.09	32.04	PASS
3	0.438	9.83	34.23	44.06	57.10	13.04	22.8	32.63	47.10	14.47	PASS
4	0.681	9.79	24.22	34.01	56.00	21.99	10.94	20.73	46.00	25.27	PASS
5	10.3335	9.66	11.26	20.92	60.00	39.08	2.46	12.12	50.00	37.88	PASS
6	23.6580	9.50	10.02	19.52	60.00	40.48	1.09	10.59	50.00	39.41	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)			
Test Method:	ANSI C63.10:2013 Section 7.8.5			
Test Setup:	PC Sector Signal Generator Spectrum Analyzer Sector Signal Generator Spectrum Analyzer Sector Signal Generator Fe Control Unit Sector			
Test Instruments:	Refer to section 6 for details			
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.			
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.			
Limit:	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.			
Test Results:	Pass			
The detailed test data see:	Appendix			

4.4 Conducted Output Power

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4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth

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Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)					
Test Method:	ANSI C63.10:2013 Section 6.9.2 and 6.9.3					
Test Setup:	PC					
Instruments Used:	Refer to section 6 for details					
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.					
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.					
Limit:	NA					
Test Results:	Pass					
The detailed test data see: A	ppendix					



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Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013 Section 7.8.2				
Test Setup:	PC PC PC PC PC PC PC PC PC PC				
Test Instruments:	Refer to section 6 for details				
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.				
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.				
Limit:	2/3 of the 20dB bandwidth				
	Remark: the transmission power is less than 0.125W.				
Test Results:	Pass				
The detailed test data see:	Appendix				

4.6 Carrier Frequencies Separationy

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Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) Test Method: ANSI C63.10:2013 Section 7.8.3 Test Setup: SGS Test system lector Signal Generator 0 PC Communication Tester RF Unit q 0 0 0 E.U.T Analog Signal Ge 20 DC Powe 00000 Ground Reference Plane Instruments Used: Refer to section 6 for details Test Mode: Hopping transmitting with all kind of modulation Limit: At least 15 channels Test Results: Pass The detailed test data see: Appendix

4.7 Hopping Channel Number

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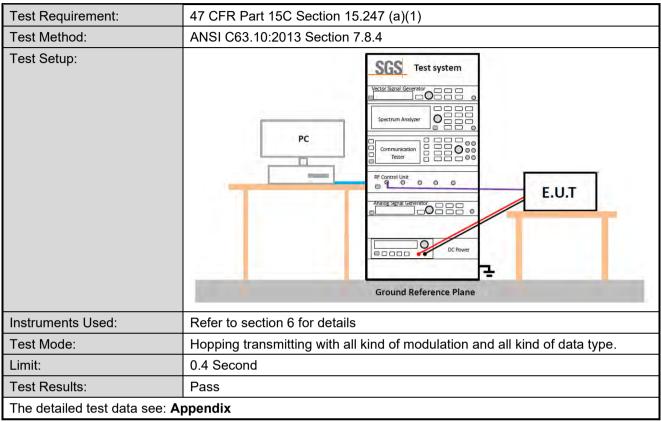
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4.8 Dwell Time





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4.9 Band-edge for RF Conducted Emissions

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Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10:2013 Section 7.8.6			
Test Setup:	PC FC control Unit Tester FC control Unit Communication FC control Unit FC Control			
Instruments Used:	Refer to section 6 for details			
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type.			
Final Test Mode:	 Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. 			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.			
Test Results:	Pass			
The detailed test data see: A	Appendix			



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4.10 Spurious RF Conducted Emissions

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Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10:2013 Section 7.8.8			
Test Setup:	PC PC Communication PC Communication PE Cottol Unit PE Cottol Unit Communication PE Cottol Unit PE Cottol Unit			
Instruments Used:	Refer to section 6 for details			
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.			
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.			
Test Results:	Pass			
The detailed test data see:	Appendix			



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4.11 Radiated Spurious Emissions

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Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 :2013 Section 11.12								
Test Site:	Measurement Distance: 3	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)				
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30				
	1.705MHz-30MHz	30	-	-	30				
	30MHz-88MHz	100	40.0	Quasi-peak	3				
	88MHz-216MHz	150	43.5	Quasi-peak	3				
	216MHz-960MHz	200	46.0	Quasi-peak	3				
	960MHz-1GHz	500	54.0	Quasi-peak	3				
	Above 1GHz	500	54.0	Average	3				
	emissions is 20dB above applicable to the equipme level radiated by the devic	nt under test. This	-	•					
Test Setup:									
Fig	ure 1. Below 30MHz		Figure 2.	30MHz to 1GH	z				



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	Antenna Tower Im or 3m FUT Turntable Ground Reference Plane Test Receiver
	Figure 3. Above 1 GHz
Test Procedure:	 a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be retested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	h. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
	 i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz
	 RBW = 120 kHz VBW = 300 kHz Detector = Peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	 • RBW = 1 MHz • VBW ≥ 3 MHz



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	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	 VBW = 10 Hz, when duty cycle is no less than 98 percent.
	• VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum
	transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Evalenates Test	Non-hopping transmitting mode with all kind of modulation and all kind of
Exploratory Test Mode:	data type
Mode.	Charge + Transmitting mode.
	Through Pre-scan, find the
	DH5 of data type and GFSK modulation is the worst case.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode
	For below 1GHz part, through pre-scan, the worst case is the lowest channel.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test dat	a see: Appendix



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4.12Restricted bands around fundamental frequency

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Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013						
Test Site:	Measurement Distance: 3m	ance: 3m (Semi-Anechoic Chamber)					
Limit:	Frequency	Limit (dBuV/m)	Remark				
	30MHz-88MHz	40.0	Quasi-peak				
	88MHz-216MHz	43.5	Quasi-peak				
	216MHz-960MHz	216MHz-960MHz 46.0 Qu					
	960MHz-1GHz	54.0	Quasi-peak				
	Above 1GHz	54.0	Average Value				
		74.0	Peak Value				
Test Setup:							
(Turntable) Groun	 30MHz to 1GHz a. For below 1GHz, the EL above the ground at a rotated 360 degrees to o b. For above 1GHz, the meters above the grour rotated 360 degrees to o c. The EUT was set 3 antenna, which was mo d. The antenna height is v to determine the maxin vertical polarizations of e. For each suspected en then the antenna was rotatable table was tu 	Figure 2. Above 1 GHz Twas placed on the top of a rotating table 0.8 meters of 10 meter semi-anechoic camber. The table was letermine the position of the highest radiation. EUT was placed on the top of a rotating table 1.5 d at a 3 meter semi-anechoic camber. The table was letermine the position of the highest radiation. EUT was placed on the top of a rotating table 1.5 d at a 3 meter semi-anechoic camber. The table was letermine the position of the highest radiation. EUT was placed on the top of a rotating table 1.5 d at a 3 meter semi-anechoic camber. The table was letermine the position of the highest radiation. EUT was placed on the top of a rotating table 1.5 d at a 3 meter semi-anechoic camber. The table was letermine the position of the highest radiation. To meters away from the interference-receiving anted on the top of a variable-height antenna tower. The top of a variable-height antenna tower. The top of the field strength. Both horizontal and he antenna are set to make the measurement. Thission, the EUT was arranged to its worst case and the top of a odegrees to 360 degrees to find the top of a construction.					
	Bandwidth with Maximu	m Hold Mode.	etect Function and Specified				
	g. Place a marker at the	end of the restricted	band closest to the transmit				



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	 frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. 					
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.					
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.					
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode, Only the worst case is recorded in the report.					
Instruments Used:	Refer to section 6 for details					
Test Results:	Pass					
The detailed test data see	e: Appendix					
	••					



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty		
1	Total RF power, conducted	±0.54dB		
2	RF power density, conducted	±1.03dB		
3	Spurious emissions, conducted	±0.54dB		
4	Radio Frequency	±7.25x 10 ⁻⁸		
5	Duty Cycle	±0.37%		
6	Occupied Bandwidth	±7.25x 10 ⁻⁸		
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)		
		± 3.13dB (9k -30MHz)		
8	Radiated Emission	± 4.8dB (30M -1GHz)		
ŏ		± 4.8dB (1GHz to 18GHz)		
		± 4.8dB (Above 18GHz)		



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6 Equipment List

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CE Test Equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19		
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19		



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RSE Test Equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19		
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19		
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19		
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15		
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15		
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13		
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20	2022/2/19		
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19		
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19		
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9		
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR		
Radio Communication Analyzer	ROHDE&SCHWARZ	CMW500	SUWI-01-27-01	2021/9/28	2022/9/27		



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7 Photographs - EUT Constructional Details

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.963	2401.526	2402.489		PASS
		2441	0.963	2440.526	2441.489		PASS
		2480	0.957	2479.526	2480.483		PASS
		2402	1.284	2401.364	2402.648		PASS
2DH5	Ant1	2441	1.284	2440.364	2441.648		PASS
		2480	1.284	2479.361	2480.645		PASS
3DH5		2402	1.284	2401.349	2402.633		PASS
	Ant1	2441	1.290	2440.349	2441.639		PASS
		2480	1.290	2479.349	2480.639		PASS

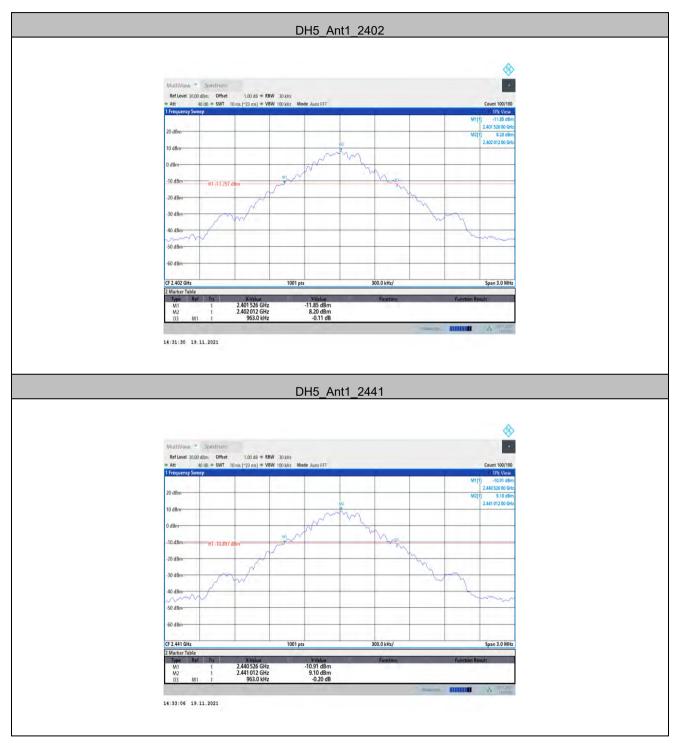


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Test Graphs

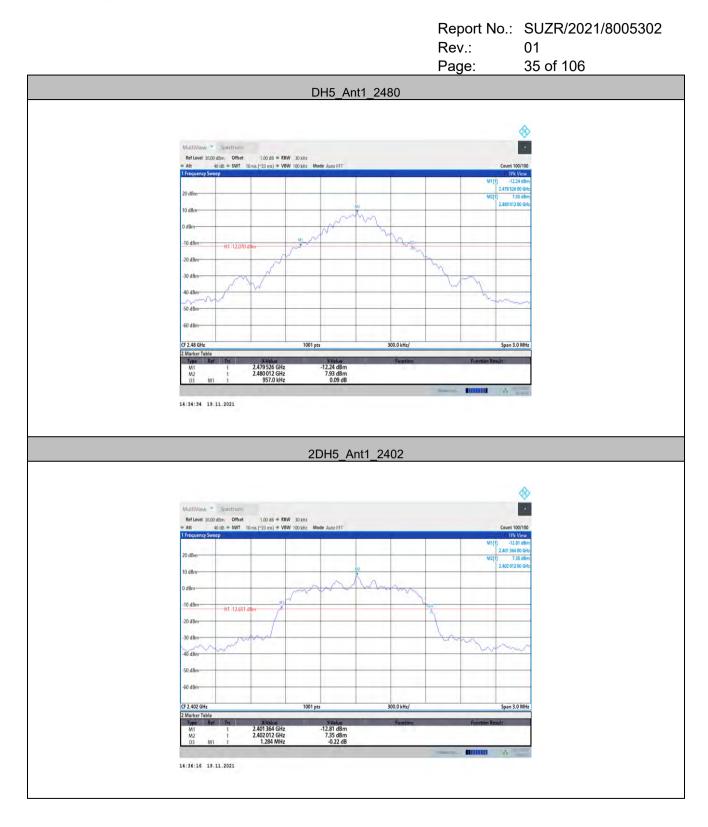




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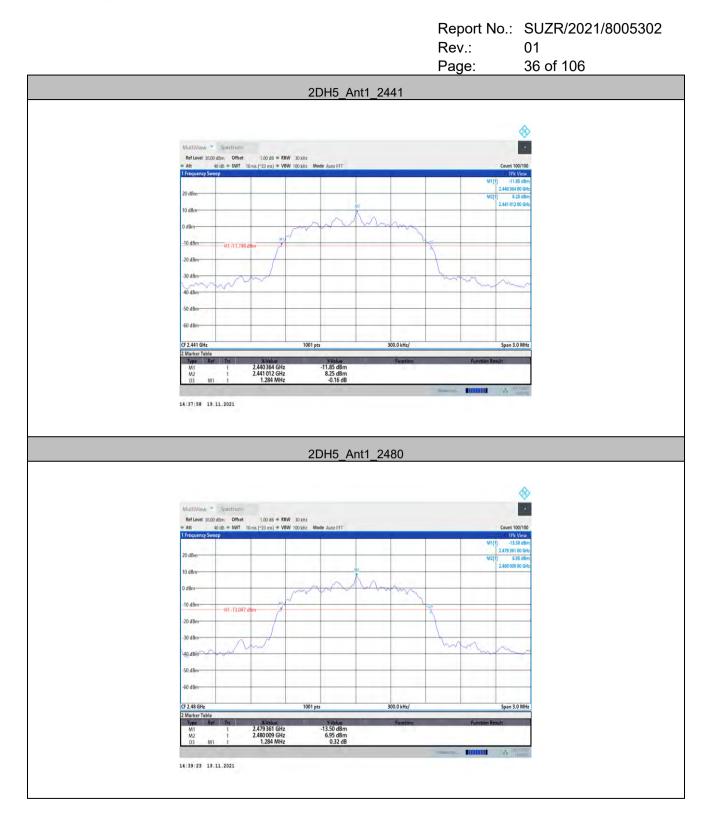




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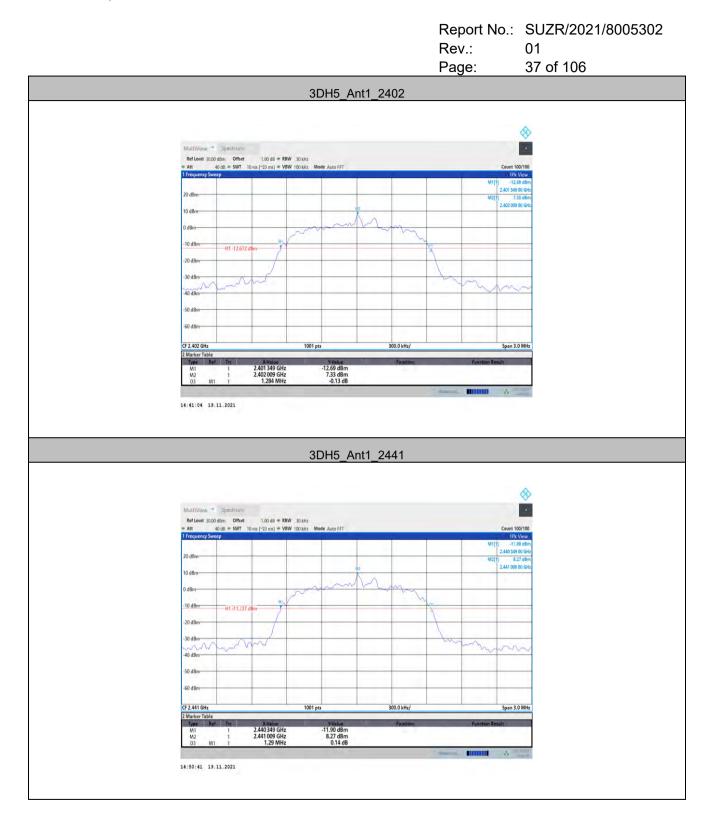




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Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.921	2401.538	2402.459		PASS
DH5	Ant1	2441	0.919	2440.540	2441.460		PASS
		2480	0.911	2479.542	2480.454		PASS
		2402	1.18	2401.404	2402.585		PASS
2DH5	Ant1	2441	1.18	2440.405	2441.585		PASS
		2480	1.175	2479.404	2480.579		PASS
		2402	1.178	2401.404	2402.582		PASS
3DH5	Ant1	2441	1.178	2440.407	2441.584		PASS
		2480	1.176	2479.408	2480.583		PASS

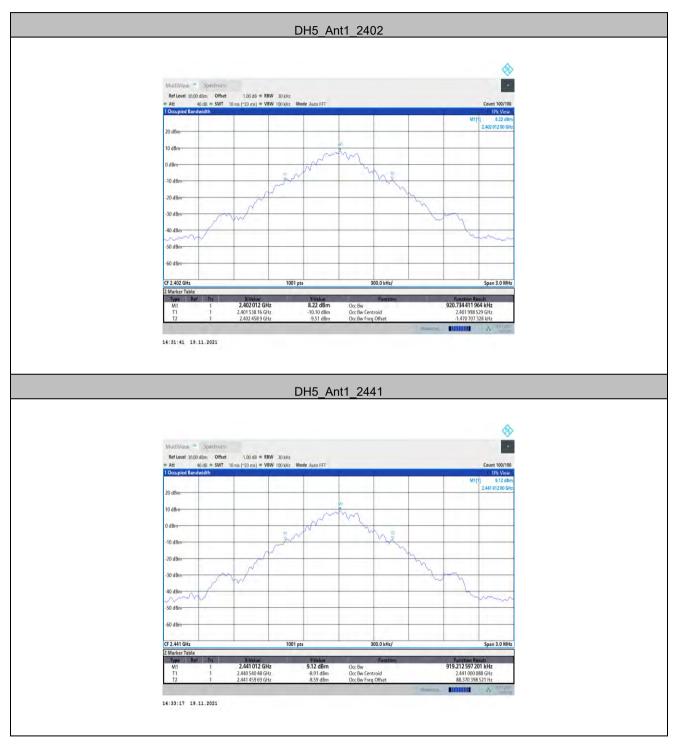


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Test Graphs

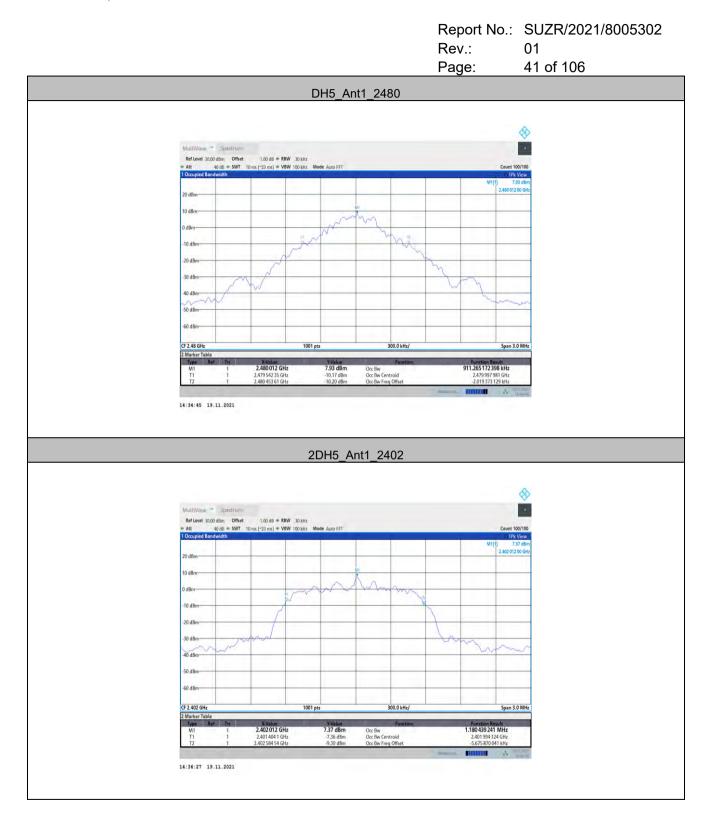




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 Ref Level 30.00 dBm
 Offset

 Att
 40 dB = SWT
 1.00 dB = RBW 30 kHz ms (~23 ms) = VBW 100 kHz 1.25 2.441 009 00 0 20 dB 10 dBm 0 dBm 10 dBa -20 dBn 30 dBn 40 dBn 50 dBn -60 dBr CF 2.441 GH 1001 pts 300.0 kHz/ Span 3.0 MHz 2 Mai 2.441 009 GH2 2.440 404 78 GH2 2.441 584 51 GH2 8.25 dB 1.179 729 731 MH Occ Bw Occ Bw Centroid Occ Bw Freq Offs M1 T1 T2 2.440 994 643 GH -5.357 145 555 kH -6.32 dE -8.54 dE 14:38:09 19.11.2021 2DH5 Ant1 2480
 Ref Level
 30.00 dBm
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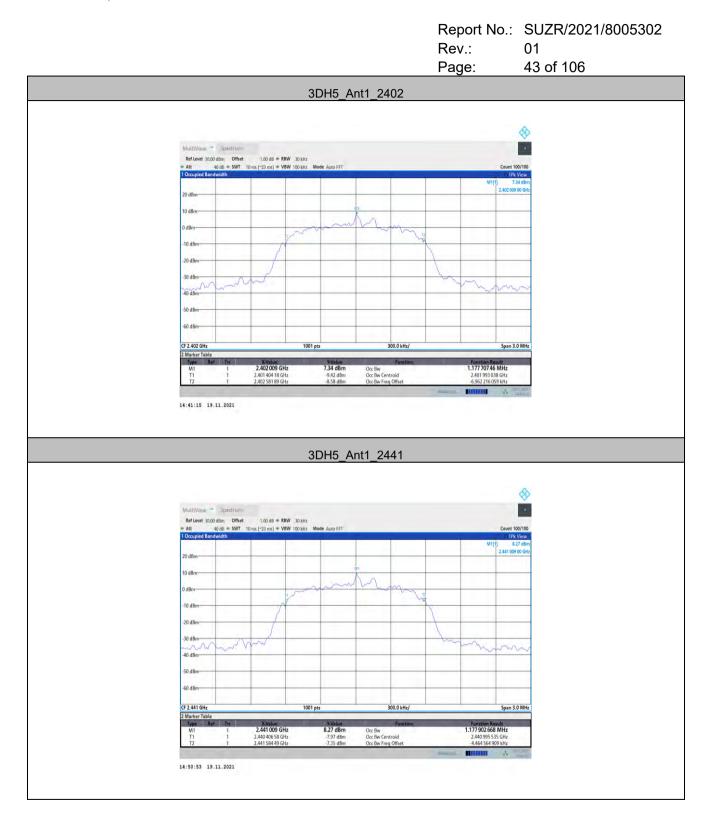
 Att
 40 dB
 SWT
 10 ms (*23 ms)
 VBW
 100 kHz
 is. Att Accupied Ba 20 dB 10 dBm 0 dBn 10 dBn 20 dB 30 dB 40.dBit 50 dB -60 dBn CF 2.48 GHz 1001 pts 00.0 kHz/ Span 3.0 MH 2 480,009 GH Function Result 1 175 382 621 MH 6.97 dBn Occ Bw Occ Bw Centroid Occ Bw Freq Offse T1 T2 2.479 403 97 GH 2.480 579 35 GH -7.44 de 2.479 991 658 G -8.342 474 695 k 14:39:35 19.11.2021



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Maximum conducted output power Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2402	10.43	<=30	PASS
DH5	Ant1	2441	11.35	<=30	PASS
		2480	10.15	<=30	PASS
		2402	11.25	<=20.97	PASS
2DH5	Ant1	2441	12.16	<=20.97	PASS
		2480	11	<=20.97	PASS
		2402	11.52	<=20.97	PASS
3DH5	Ant1	2441	12.49	<=20.97	PASS
		2480	11.43	<=20.97	PASS



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DH5 Ant1 2402 ٨ . Ref Level 30.00 dBm Offset 1.00 dB = RBW 3 MHz Att 40 dB = SWT 10 ms = VBW 10 MHz 10 ms = VBW 101 1.40 20 dB 10 dBm 10 dBr 20 dBn -30 dBm The de Hora -40 dBn -50 dBn 60 dBn CF 2.402 GHz 1.5 MHz/ Span 15.0 MHz 1001 pt 14:31:18 19.11.2021 DH5_Ant1_2441 ٨ NultiViana - So Ref Level 30.00 dBm Offset 1.00 dB = RBW 3 MHz Att 40 dB = SWT 10 ms = VBW 10 MHz 10 ms = VBW 10 MHz Ma 2 441 20 dB 10 dBr) dBn 10 dB 20 dB 30 dBm 40 dBn -50 dBn -60 dBm CF 2.441 GHz 1001 pts 1.5 MHz/ Span 15.0 MH 14:32:40 19.11.2021

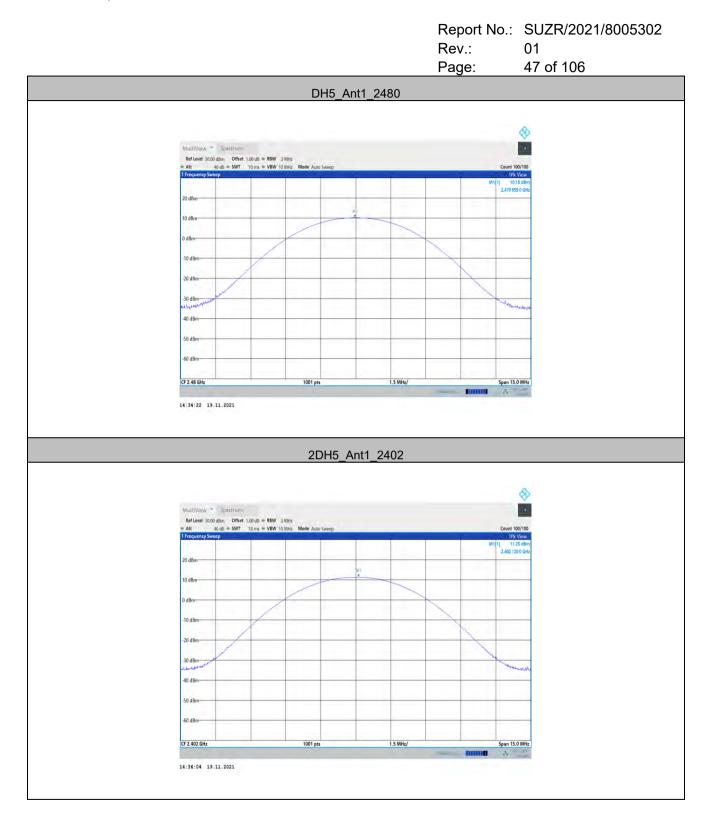
Test Graphs



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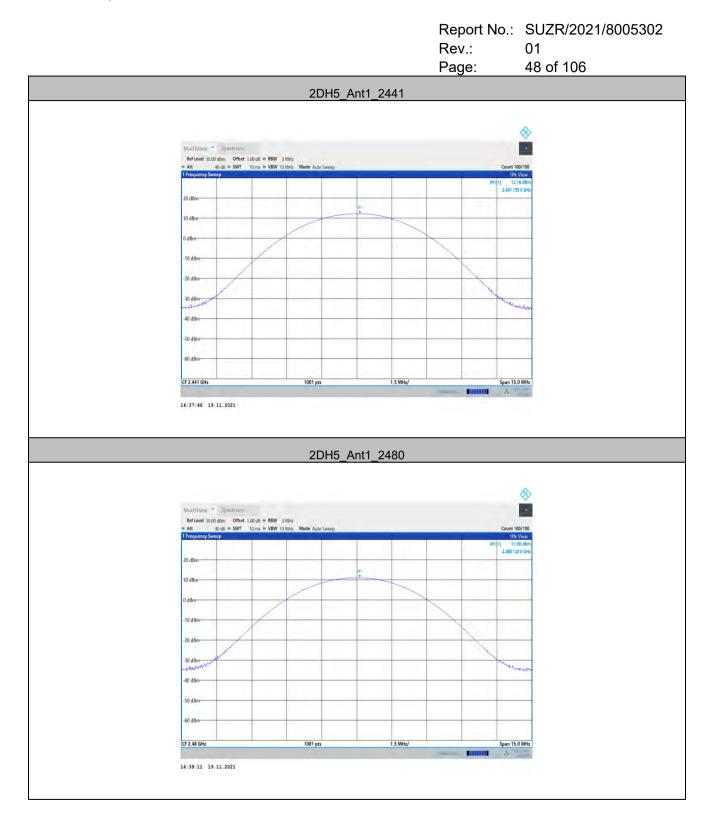
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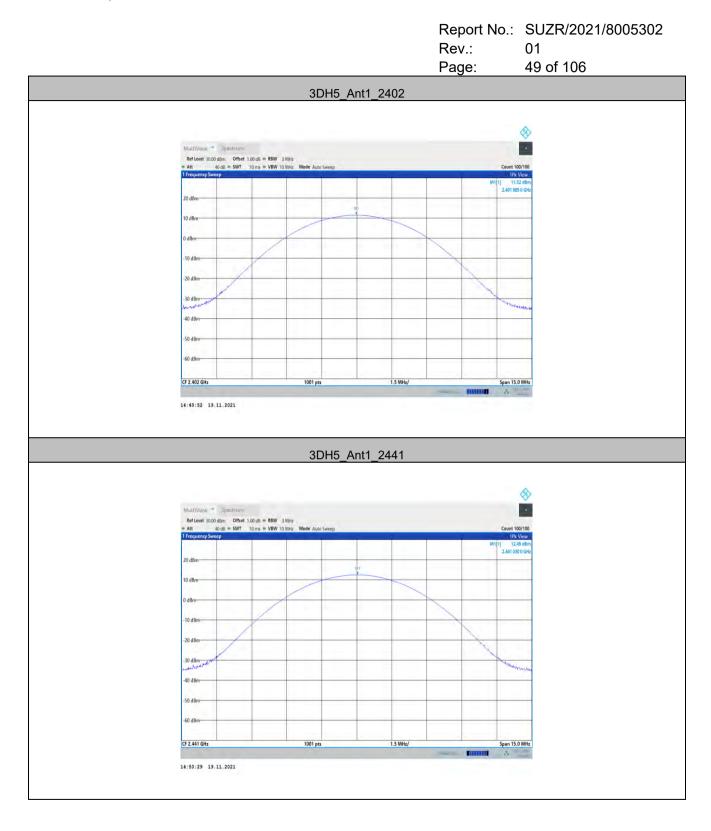
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	3DH5_/	Ant1_2480		
	0 dBm Offset 1.00 dB = RBW 3 MHz 40 dB = SWT 10 ms = VBW 10 MHz Mode Auto Sweep		Count 10 	/iew 3 dBm
10 dBm				
-20 dBm -30 dBm بارسی میرینی				Jerry
-50 dBm -60 dBm -67 2.48 GHz	1001 pts	1.5 MHz/	Span 15.	
14:53:40 19	11.2021		A BARREL A	



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Carrier frequency separation Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Нор	0.998	≥0.693	PASS
2DH5	Ant1	Нор	1.008	≥0.025	PASS
3DH5	Ant1	Нор	1.158	≥0.025	PASS



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Test Graphs





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			Report No.: Rev.: Page:	SUZR/2021/8005302 01 53 of 106
	3DH5_Ant	1_Hop		
MultiVunk Spectrum Ref Leel 2000 dBm Offset 100 dB = 1 Att 30 dB = SWT 1.01 ms = V 1 Frequency Swsp 20 dBm VVVV 0 dBm VVVVV	BW 300 kHz BW 1 Mitz Mode Auto Sweep	m Marine Y	0.15 M1[1] 11 2.440 Si 02[1]	100/100 2023 dbm 60 Get 300 Mtz 1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/
-10 dBm				
-20 dBm				
-30 dBm				
-40 dBm				
-50 dBm				
2.440 5 GHz	1001 pts	200.0 kHz/	2.44	12 5 GHz
				- And
09:03:22 15.12.2021				



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Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.38	320	0.122	<=0.4	PASS
DH3	Ant1	Нор	1.64	200	0.328	<=0.4	PASS
DH5	Ant1	Нор	2.89	110	0.317	<=0.4	PASS
2DH1	Ant1	Нор	0.39	330	0.128	<=0.4	PASS
2DH3	Ant1	Нор	1.64	140	0.229	<=0.4	PASS
2DH5	Ant1	Нор	2.89	120	0.346	<=0.4	PASS
3DH1	Ant1	Нор	0.39	330	0.127	<=0.4	PASS
3DH3	Ant1	Нор	1.64	160	0.262	<=0.4	PASS
3DH5	Ant1	Нор	2.89	90	0.26	<=0.4	PASS



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DH1 Ant1 Hop . Ref Level 30.00 dBm Offset 1.00 dB RBW 1 MHz Att 40 dB SWT 10 ms VBW 3 MHz 20 48 381.3 10 dBm TRG 8 300 d dBn 10 dBn -20 dBn 30 dB -40 dBm ورواديل المالم والمريع فليلج والاراقة التاريد A second of the second second second second and the second a statistica de la construcción de 1194 -60 dBm CF 2.441 GHz 1.0 ms/ 8000 pts 14:56:45 19.11.2021 ٨ MultiView = Spectru Ref Level 30.00 dBm Offset 1.00 dB RBW 500 kHz Att 40 dB SWT 3.16 s VBW 3 MHz 20 dB 10 dB 20 dB 0 dB 60 dBn CF 2.441 GHz 316.0 ms/ 30000 pts 14:56:50 19.11.2021



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Test Graphs

Report No.: SUZR/2021/8005302 Rev.: 01 Page: 56 of 106 DH3_Ant1_Hop ٨ -WultiView . Spect
 Ref Level
 30.00 dBm
 Offset
 1.00 dB
 RBW
 1 MHz

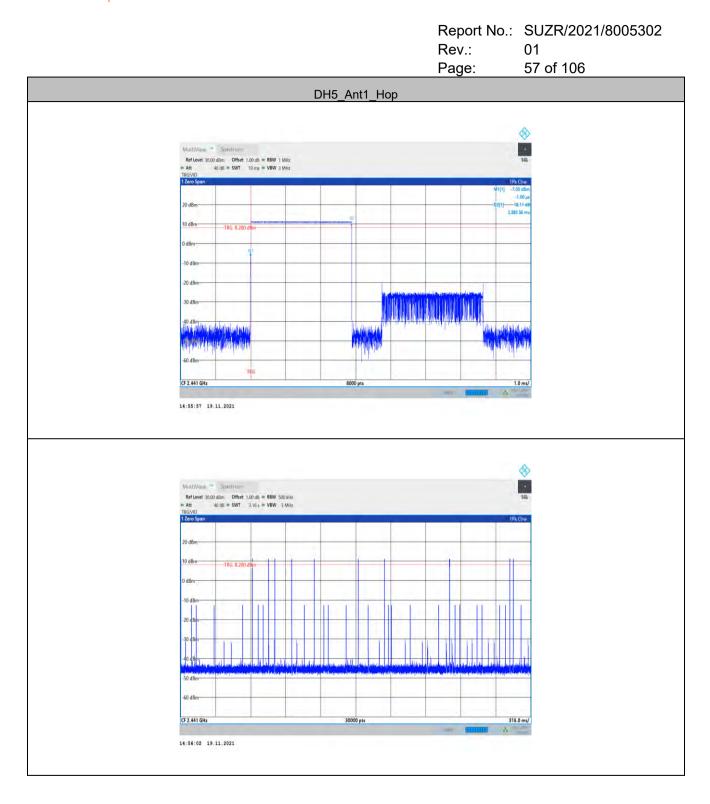
 Att
 40 dB
 SWT
 10 ms
 VBW 3 MHz
 20 dBr 1.637 70 10 dBm TRG 8.300 0 dBm 10 dBr 20 dB 30 dBn -40 dBn or all a description for a line of the state of introduced based and a state of a state of a state of alist un sveda i di usa le _{es} inter e _la giu di data le este de aperte da la constante a legi 60 dBn CF 2.441 GHz 8000 pts 1.0 ms 14:57:45 19.11.2021 ٨ MultiView = Spec
 Ref Level 30.00 dBm
 Offset 1.00 dB
 RBW 500 kHz

 Att
 40 dB
 SWT
 3.16 s
 VBW
 3 MHz
 At 20 dB 10 dBm RG 8.300 d 0 dB 20 dE 0 dB 40 dBr 50 dBn -60 dBn CF 2.441 GHz 316.0 ms 30000 pts 14:57:51 19.11.2021



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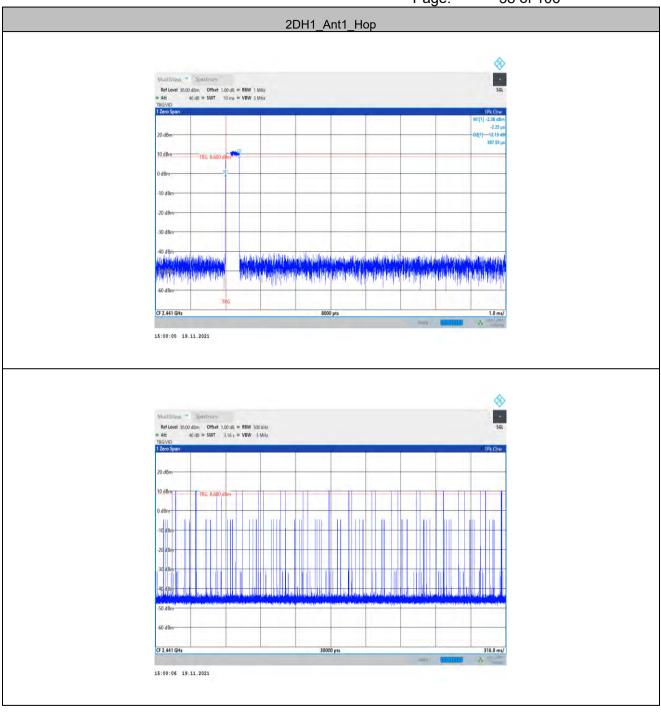


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Report No.: SUZR/2021/8005302 Rev.: 01 Page: 59 of 106 2DH3_Ant1_Hop ٨ . White Spec
 Ref Level
 30.00 dBm
 Offset
 1.00 dB
 RBW
 1 MHz

 Att
 40 dB
 5WT
 10 ms
 VBW
 3 MHz
 20 dBr 10 dBm TRG 8.500 0 dBm 10 dBr 20 dB 30 dBm -40 dBm desimilation bases is belt with principal the ball of a station of the s añ inl -60 dBm CF 2.441 GHz 8000 pts 1.0 ms 15:00:30 19.11.2021 ٨ MultiView - Spec
 Ref Level 30.00 dBm
 Offset 1.00 dB
 RBW 500 kHz

 Att
 40 dB
 SWT
 3.16 s
 VBW 3 MHz
 . At 20 dBn 10 dBm RG 8.500 dBe 20 d 30 di 50 dBm -60 dBn CF 2.441 GHz 316.0 ms 30000 pts 15:00:35 19.11.2021



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Report No.: SUZR/2021/8005302 Rev.: 01 Page: 60 of 106 2DH5_Ant1_Hop -White Spec
 Ref Level
 30.00 dBm
 Offset
 1.00 dB
 RBW
 1 MHz

 Att
 40 dB
 SWT
 10 ms
 VBW 3 MHz
 20 dBr 2.886 61 10 dBm TRG 8,600 0 dBm 10 dBr 20 dB 30 dBn -40 dBm Readed Studies in could be active conduct at the free developed and an W MARK a sala a na hini na anana a sa 60 dBm 8000 pts CF 2.441 GHz 1.0 ms 14:59:33 19.11.2021 ٨ MultiView = Spec
 Ref Level 30.00 dBm
 Offset 1.00 dB
 RBW 500 kHz

 Att
 40 dB
 SWT
 3.16 s
 VBW
 3 MHz
 At 20 dBr 10 dBm TRG 8.60 dBe 1 ľ 50 dBr -60 dBn CF 2.441 GHz 316.0 ms 30000 pts 14:59:38 19.11.2021



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id in the first

WultiView . Spect

20 dBr

10 dBm

0 dBm 10 dBr -20 dB 30 dBn -40 dBm

1 60 dB CF 2.441 GHz

15:02:55 19.11.2021

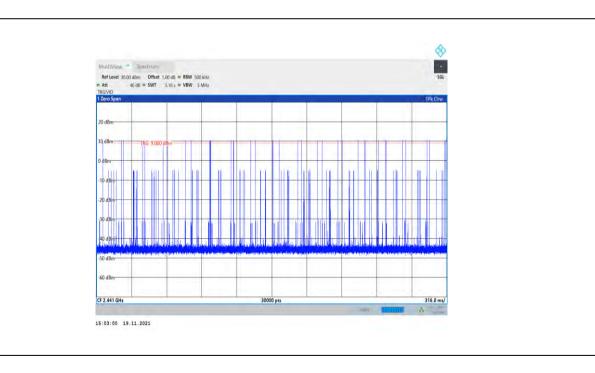
Report No.: SUZR/2021/8005302 Rev.: 01 Page: 61 of 106 3DH1_Ant1_Hop .
 Ref Level
 30.00 dBm
 Offset
 1.00 dB
 RBW
 1 MHz

 Att
 40 dB
 SWT
 10 ms
 VBW 3 MHz
 386.30 TRG 9 000 d

1.0 ms

like naken ali dari kurtum madadi, planami, pinatan naina di kan hili kana kana mata

8000 pts





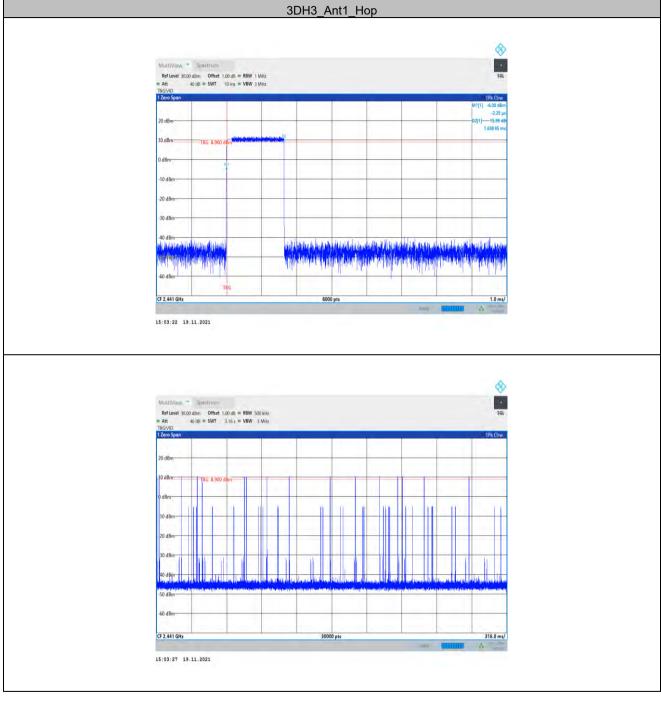
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Report No.: SUZR/2021/8005302 Rev.: 01 Page: 63 of 106 3DH5_Ant1_Hop ٨ MultiView - Spec ÷
 Ref Level
 30.00 dBm
 Offset
 1.00 dB
 RBW
 1 MHz

 Att
 40 dB
 5WT
 10 ms
 VBW 3 MHz
 20 dBr 2.887 85 10 dBm TRG 9,100 0 dBm 10 dBr 20 dB 30 dBn -40 dBm heiderte ihren steller sollter steller steller steller sollte sollte sollte sollte sollte sollte sollte sollte dia mini And the second second -60 dBm 8000 pts CF 2.441 GHz 1.0 ms 15:08:10 19.11.2021 ٨ MultiView = Spec
 Ref Level 30.00 dBm
 Offset 1.00 dB
 RBW 500 kHz

 Att
 40 dB
 SWT
 3.16 s
 VBW 3 MHz
 At 20 dBn 10 dBm TRG 9.10 dBe 20 d 50 dBm -60 dBn CF 2.441 GHz 316.0 ms 30000 pts 15:08:16 19.11.2021



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Number of hopping channels Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Нор	79	>=15	PASS
2DH5	Ant1	Нор	79	>=15	PASS
3DH5	Ant1	Нор	79	>=15	PASS



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Test Graphs





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	Rev.:	01
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3DH	5_Ant1_Hop	
		الله الله الله الله الله الله الله الله
MultiView Spectrum		
Ref Level 30.00 dBm Offset 1.00 dB # RBW 300 kHz = Att 40 dB SWT 1.01 ms = VBW 1 MHz Mode Auto Sweep		
1 Frequency Sweep		k View
20 dBm		
10 480 rate phase phase and particular	energy a present representation of the second s	<u>^</u>
0 d8m		
-10 dBm		
	and the state of t	
-20 dBm		
30 dBm		
-40 dBm		
bao nom		
-50 dBm		
-60 dBm		
2.4 GHz 1001 pts		3 5 GHz
	6 BOODE -	



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Band edge measurements Test Result

RefLevel Result Limit Verdict TestMode Antenna ChName Channel [dBm] [dBm] [dBm] Low 2402 10.13 -46.69 <=-9.87 PASS 2480 9.93 -48.91 <=-10.07 PASS High DH5 Ant1 <u>9</u>.49 Low Hop 2402 -48.91 <=-10.51 PASS Hop 2480 PASS High 10.02 -48.86 <=-9.98 2402 Low 8.94 -45.54 <=-11.06 PASS 2480 High 8.96 -49.49 <=-11.04 PASS 2DH5 Ant1 Hop 2402 Low 8.05 -49.22 <=-11.95 PASS High Hop_2480 8.46 -49.4 <=-11.54 PASS Low 2402 9.10 -45.29 <=-10.9 PASS 2480 PASS High 8.75 -48.76 <=-11.25 3DH5 Ant1 Low Hop_2402 8.53 -48.85 <=-11.47 PASS PASS High Hop 2480 8.78 -49.96 <=-11.22



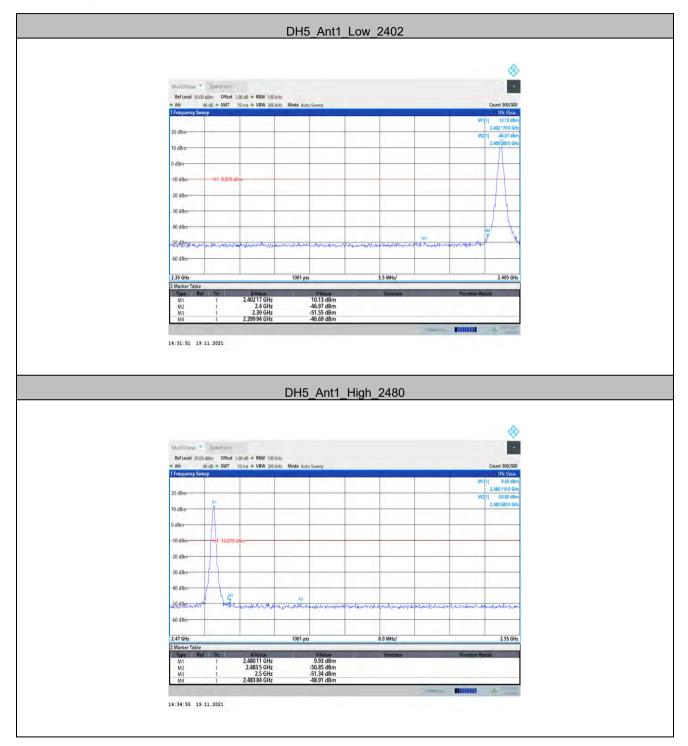
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Report No.: SUZR/2021/8005302 Rev.: 01 Page: 69 of 106 DH5_Ant1_Low_Hop_2402 ٨ +
 Ref Level
 30.00 dBm
 Offset
 1.00 dB
 RBW
 100 kHz

 Att
 40 dB
 SWT
 10 ms
 VBW
 300 kHz
 Mode 2 40 20 48 ID dBr) dBn VY 10 dB 11-10.51 20 dBn -30 dBn 40 dB -50 dBm--60 dBn 2.35 GH 1001 pt 5.5 MHz 2.405 GH X-Value 2.401 951 GHz 2.4 GHz 2.39 GHz 2.375 465 GHz 9.49 dBm -52.09 dBm -51.94 dBm -48.91 dBm M1 M2 M3 M4 14:55:20 19.11.2021 DH5 Ant1 High Hop 2480 ٨
 Ref Level 30.00 dBm
 Offset 1.00 dB
 RBW
 100 kHz

 Att
 40 dB
 SWT
 10 ms
 VBW 300 kHz
 Mode Auto S
 2,47 20 dB 2.483 500 0 10 dBm R T U U V V V V -20 dBn -30 dBn 40 dBn -50 dBn -60 dB 2.47 GHz 1001 pts B.0 MHz 2.55 GHz X-Value 2.476 993 GHz 2.483 5 GHz 2.5 GHz 2.502 4 GHz 10.02 dBm -50.65 dBm -51.63 dBm -48.86 dBm M1 M2 M3 M4 14:58:27 19.11.2021



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Report No.: SUZR/2021/8005302 Rev.: 01 Page: 70 of 106 2DH5_Ant1_Low_2402 +
 Ref Level
 30.00 dBm
 Offset
 1.00 dB
 RBW
 100 kHz

 Att
 40 dB
 SWT
 10 ms
 VBW
 300 kHz
 Mode 2 40 20 48 2 400 ID dBr) dBn 10.dB HT-11.060 20 dBn 30 dBn 40 dB 50 dBm. . . -60 dBn 2.35 GH 1001 pt 5.5 MHz/ 2.405 GH X-Value 2.401 841 GHz 2.4 GHz 2.39 GHz 2.399 94 GHz 8.94 dBm -47.11 dBm -51.68 dBm -45.54 dBm M1 M2 M3 M4 14:36:36 19.11.2021 2DH5 Ant1 High 2480
 Ref Level 30.00 dBm
 Offset 1.00 dB
 RBW
 100 kHz

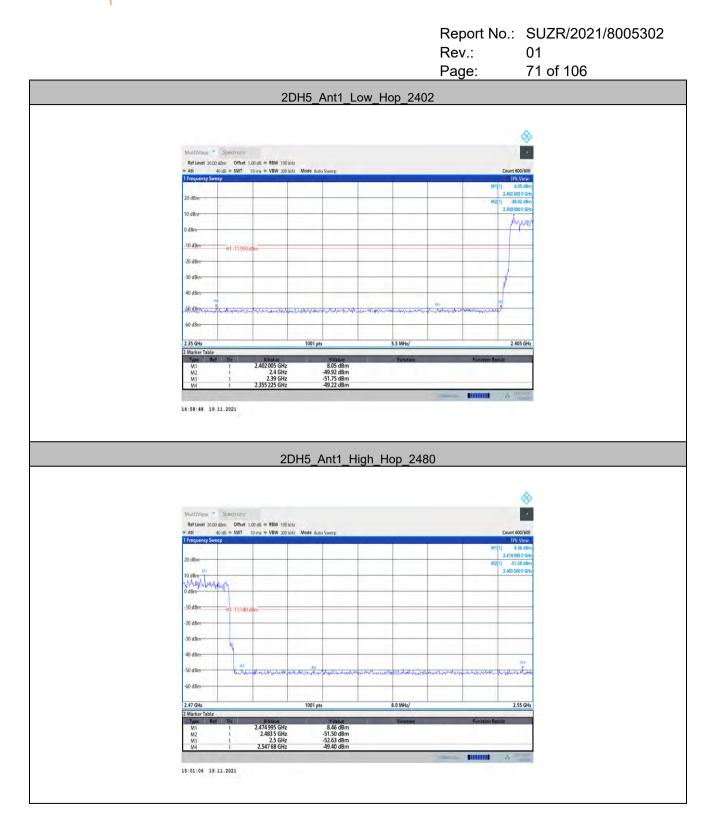
 Att
 40 dB
 SWT
 10 ms
 VBW 300 kHz
 Mode Auto S
 20 di 2.483 500 0 10 dBm 0 dBm 10 dBr 11.04 -20 dBn -30 dBn -40 dBn 50 dBm 7 M2 NLab AU . nine all st- alle 1. Andrews Annaka 60 dB 2.47 GHz 1001 pts .0 MHz 2.55 GHz X-Value 2.479 87 GHz 2.483 5 GHz 2.5 GHz 2.529 52 GHz 8.96 dBm -51.76 dBm -52.24 dBm -49.49 dBm M1 M2 M3 M4 14:39:44 19.11.2021



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Report No.: SUZR/2021/8005302 Rev.: 01 Page: 72 of 106 3DH5_Ant1_Low_2402 +
 Ref Level
 30.00 dBm
 Offset
 1.00 dB
 RBW
 100 kHz

 Att
 40 dB
 SWT
 10 ms
 VBW
 300 kHz
 Mode 2 40 20 48 2 400 10 dBr) dBn 10.dB HT -10.90 20 dBn -30 dBn 40 dB -50 dBm -60 dBn 2.35 GH 1001 pts 5.5 MHz 2.405 GH X-Value 2.402 005 GHz 2.4 GHz 2.39 GHz 2.399 995 GHz 9.10 dBm -46.84 dBm -51.49 dBm -45.29 dBm M1 M2 M3 M4 14:41:24 19.11.2021 3DH5 Ant1 High 2480 ٨
 Ref Level 30.00 dBm
 Offset 1.00 dB
 RBW
 100 kHz

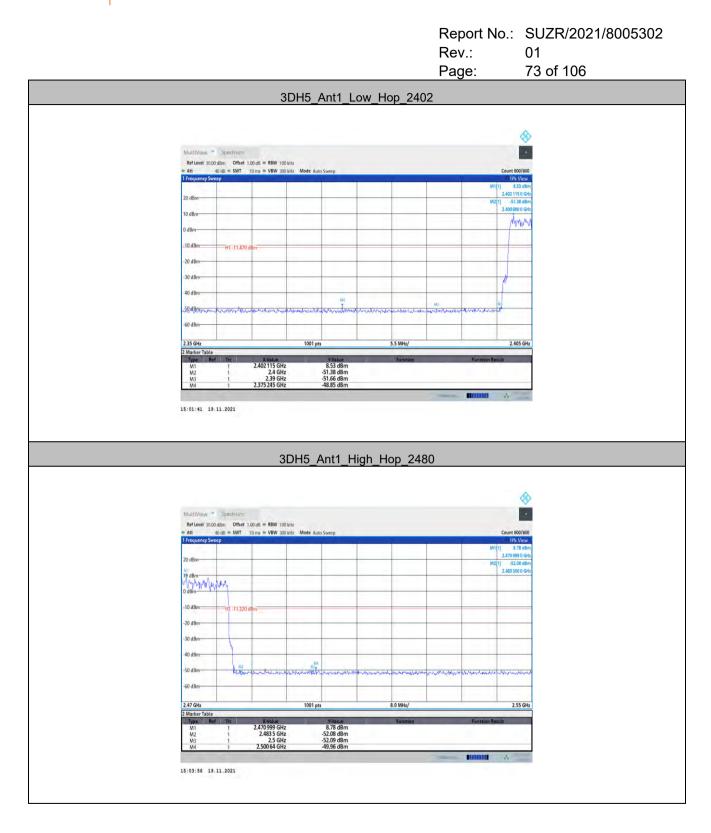
 Att
 40 dB
 SWT
 10 ms
 VBW 300 kHz
 Mode Auto S
 20 di 2,483 50 10 dBm 0 dBm 10 dBm -11.25 -20 dBn -30 dBn 40 dBn monoration 50 dBm MA 60 dB 2.47 GHz 1001 pts .0 MHz 2.55 GHz X-Value 2.480 03 GHz 2.483 5 GHz 2.5 GHz 2.540 8 GHz Y-Value 8.75 dBm -52.96 dBm -50.71 dBm -48.76 dBm M1 M2 M3 M4 14:54:13 19.11.2021



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 Report No.:
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Conducted Spurious Emission Test Result

					_		
TestMode	Antenna	Channel	FreqRange	RefLevel	Result	Limit	Verdict
			[MHz]	[dBm]	[dBm]	[dBm]	
			Reference	10.15	10.15		PASS
		2402	30~1000	10.15	-63.18	<=-9.85	PASS
			1000~26500	10.15	-47.27	<=-9.85	PASS
			Reference	11.09	11.09		PASS
DH5	Ant1	2441	30~1000	11.09	-62.67	<=-8.91	PASS
			1000~26500	11.09	-49.52	<=-8.91	PASS
			Reference	9.84	9.84		PASS
		2480	30~1000	9.84	-63.11	<=-10.16	PASS
			1000~26500	9.84	-45.27	<=-10.16	PASS
			Reference	9.23	9.23		PASS
		2402	30~1000	9.23	-63	<=-10.77	PASS
			1000~26500	9.23	-48.9	<=-10.77	PASS
		2441	Reference	10.11	10.11		PASS
2DH5	Ant1		30~1000	10.11	-63.33	<=-9.89	PASS
			1000~26500	10.11	-51.45	<=-9.89	PASS
			Reference	8.84	8.84		PASS
		2480	30~1000	8.84	-62.62	<=-11.16	PASS
			1000~26500	8.84	-46.43	<=-11.16	PASS
			Reference	9.20	9.20		PASS
		2402	30~1000	9.20	-62.27	<=-10.8	PASS
			1000~26500	9.20	-51.44	<=-10.8	PASS
			Reference	10.18	10.18		PASS
3DH5	Ant1	2441	30~1000	10.18	-62.4	<=-9.82	PASS
			1000~26500	10.18	-53.88	<=-9.82	PASS
		2480	Reference	8.93	8.93		PASS
			30~1000	8.93	-62.65	<=-11.07	PASS
			1000~26500	8.93	-49.64	<=-11.07	PASS

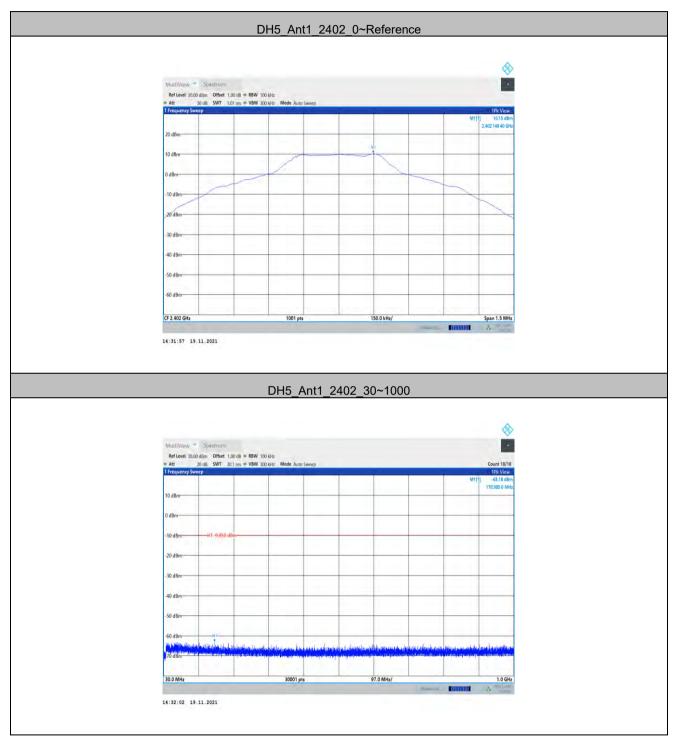


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Test Graphs



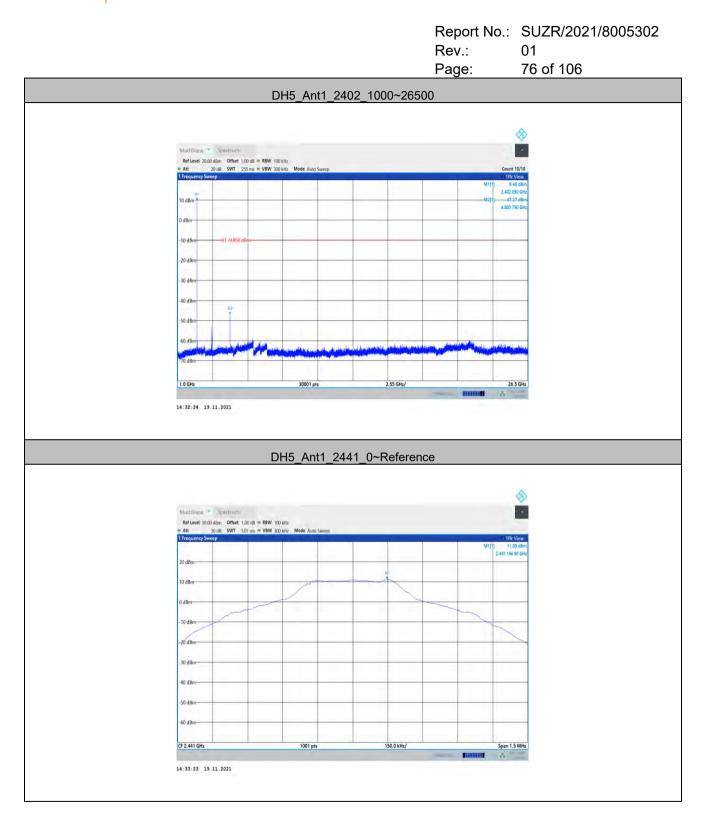


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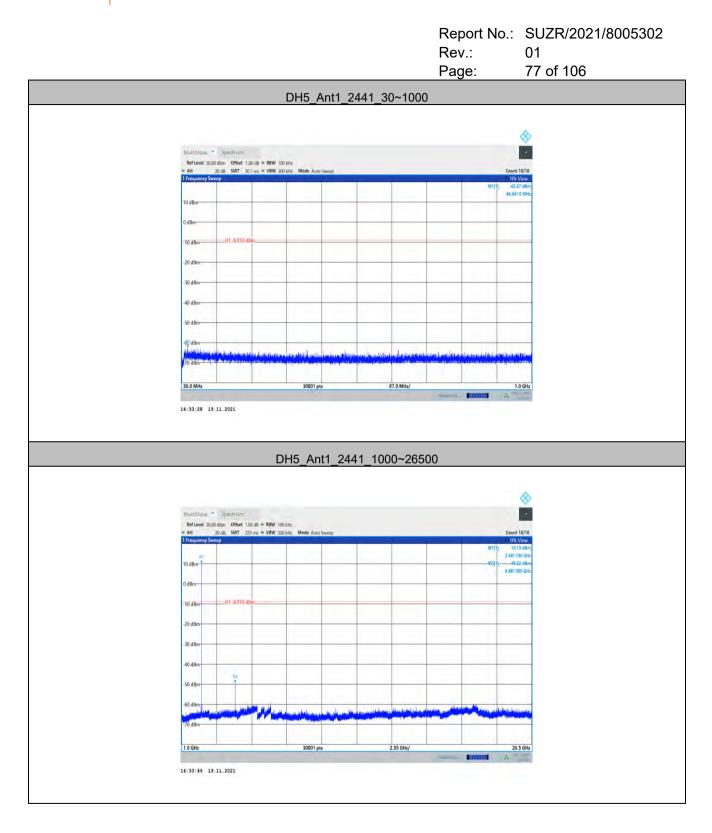
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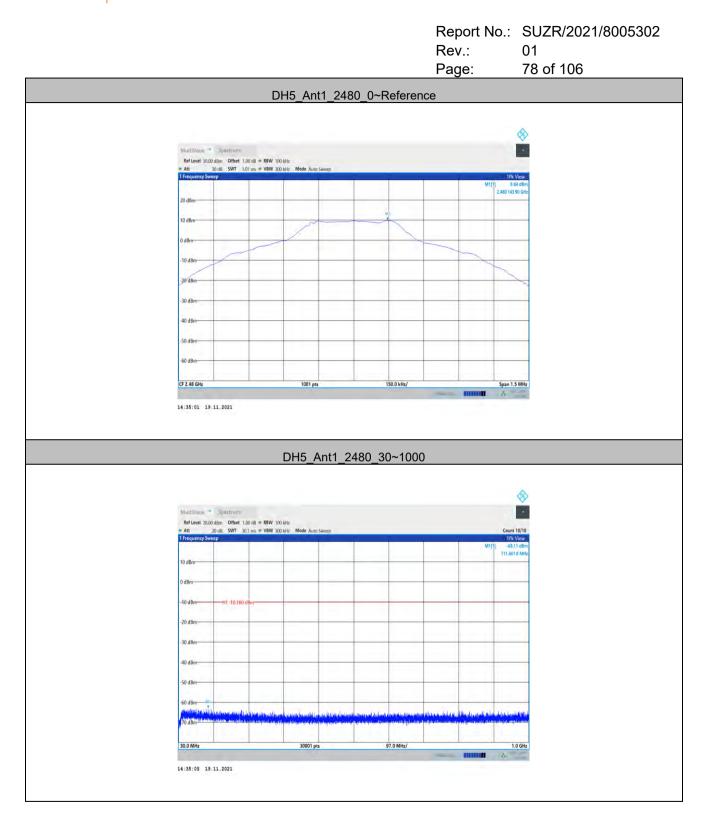
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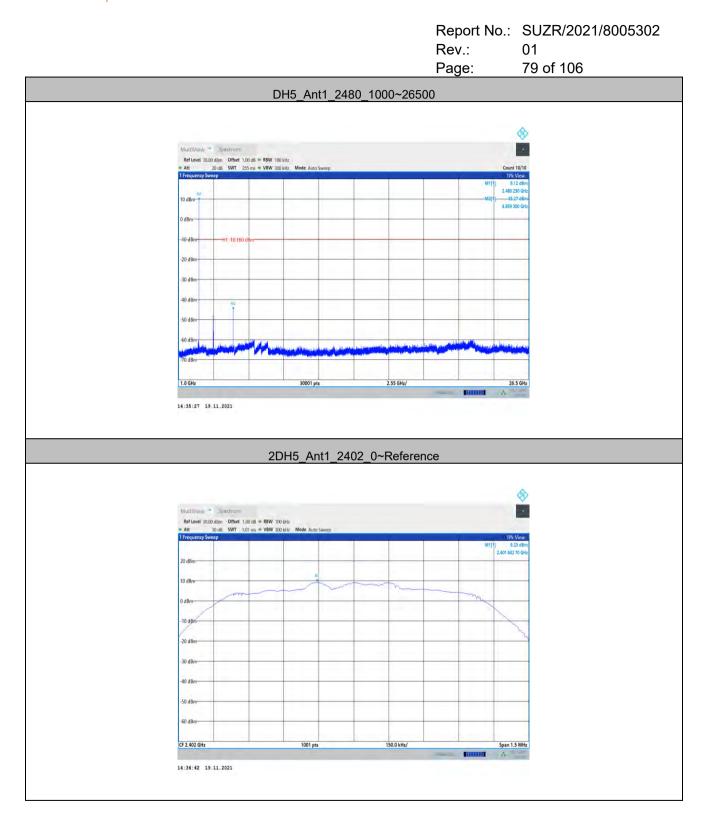
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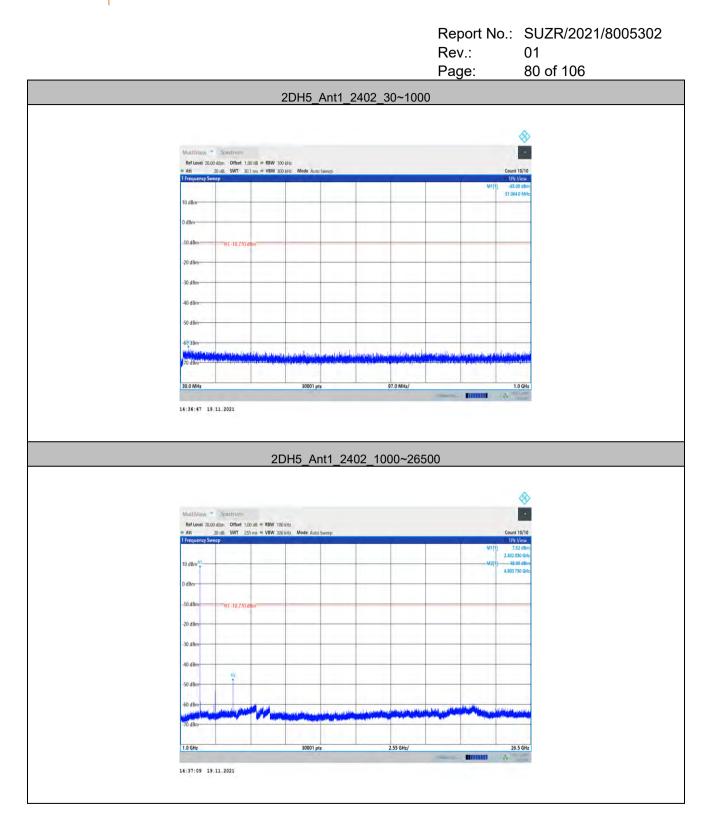
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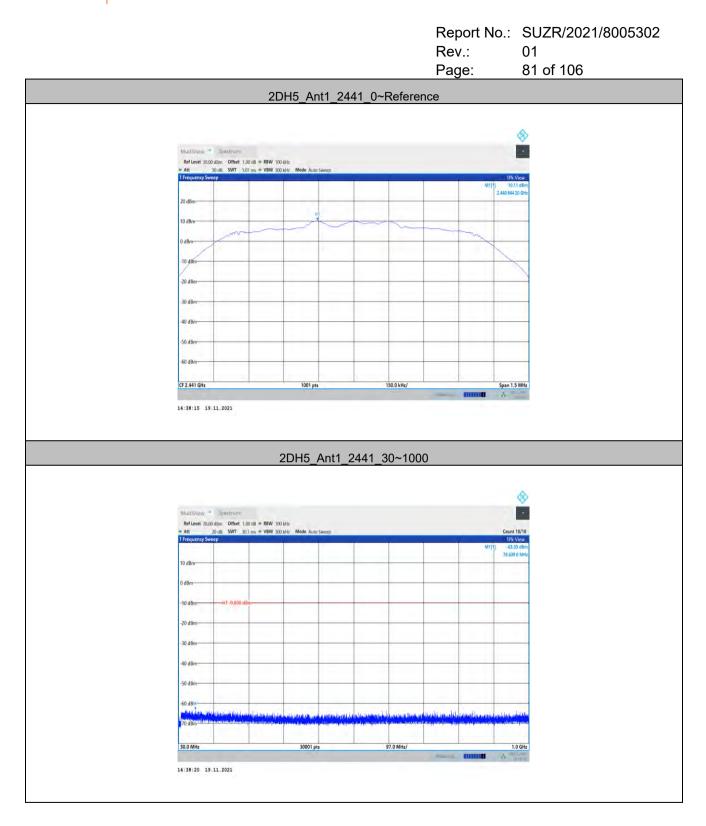
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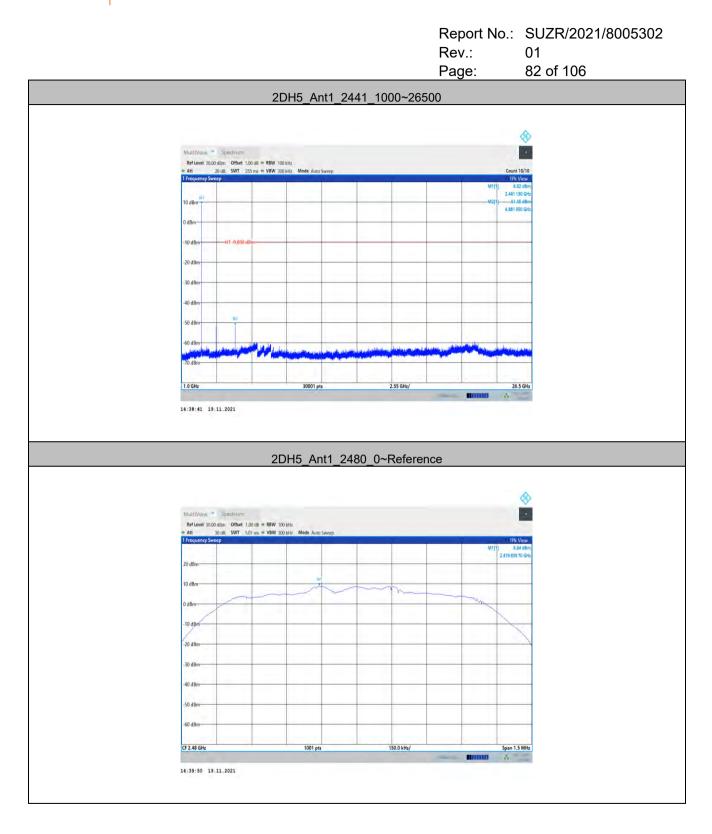
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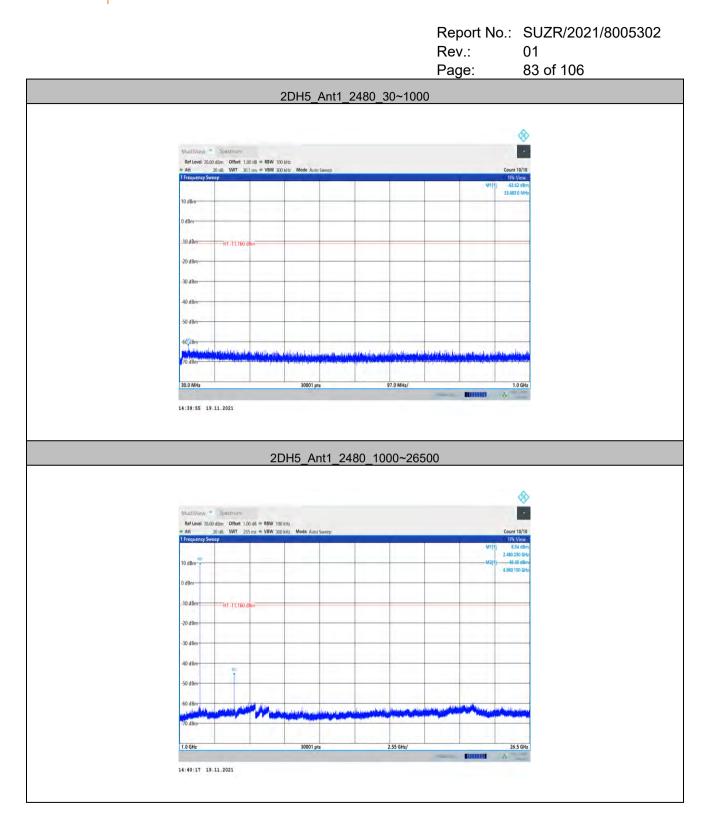
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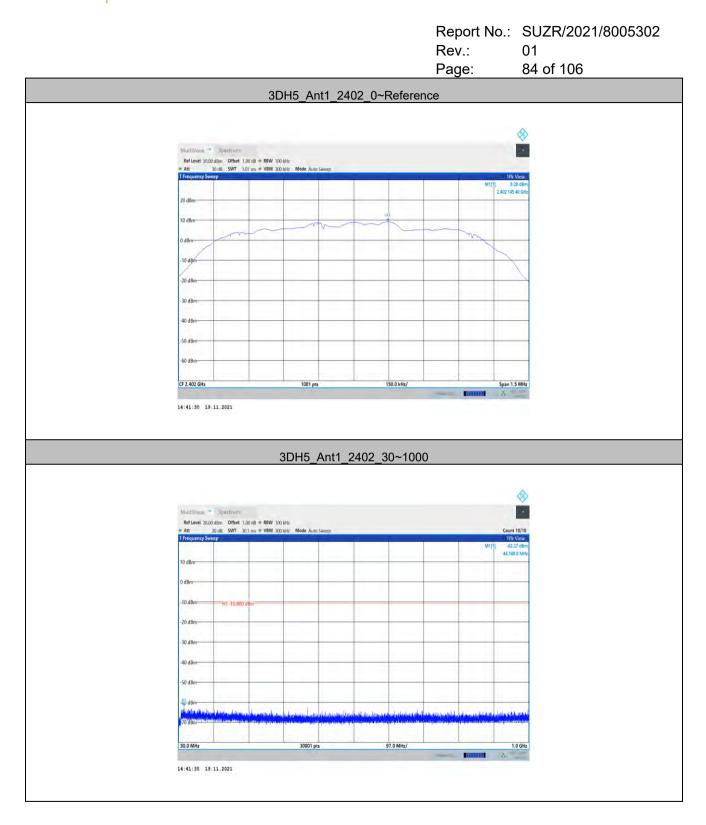
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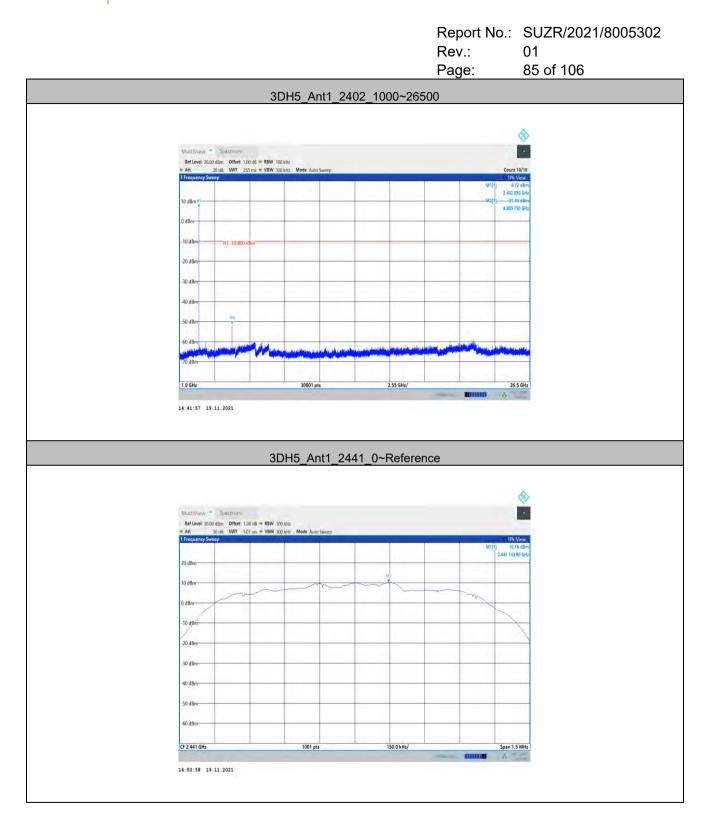
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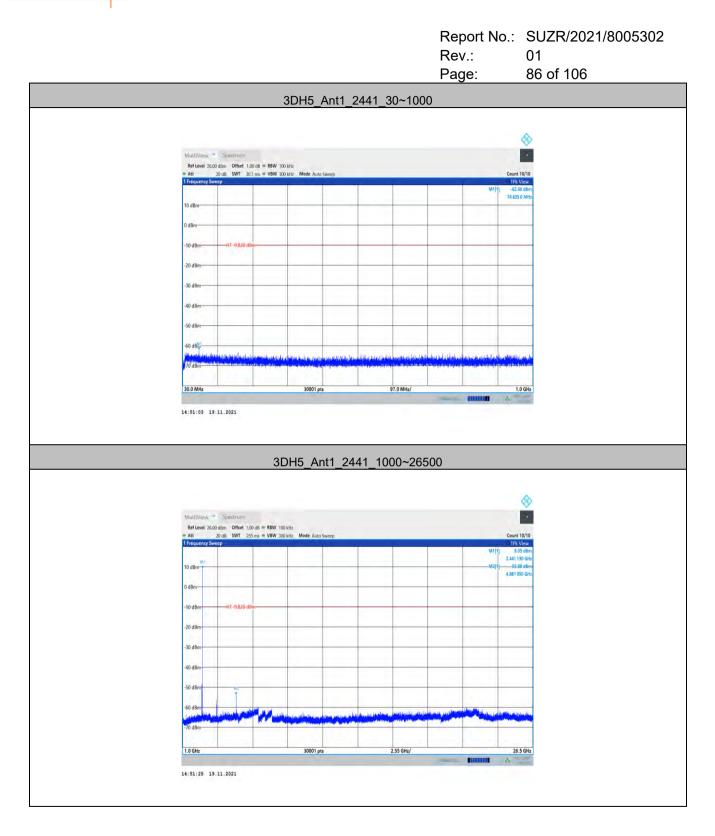
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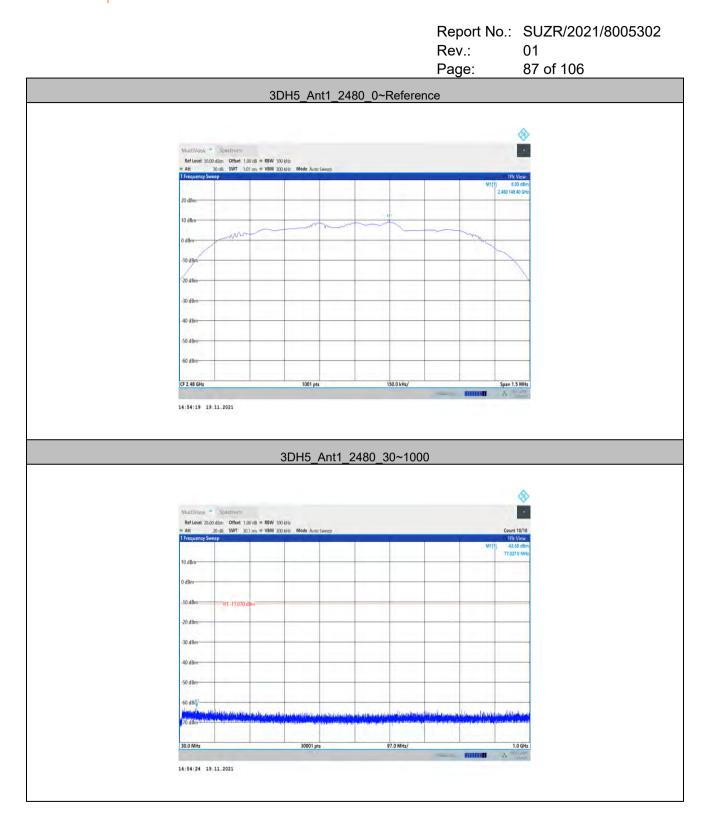
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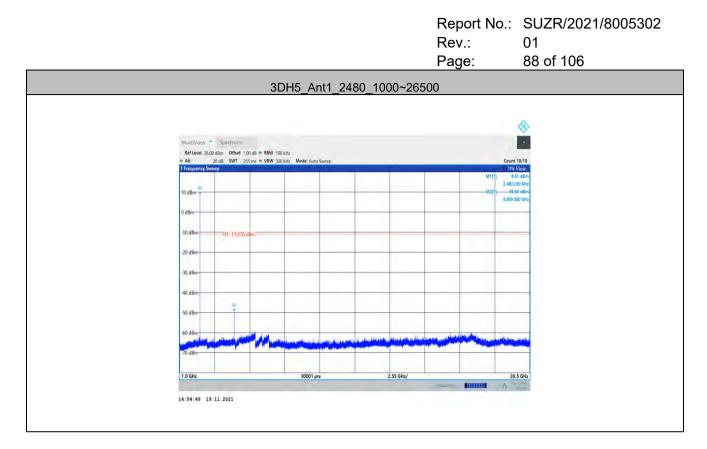
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Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	x	DC [%]	xFactor	Limit	Verdict
		2402	2.88	3.75	0.7680	76.80	1.15		PASS
DH5	Ant1	2441	2.88	3.75	0.7680	76.80	1.15		PASS
		2480	2.88	3.75	0.7680	76.80	1.15		PASS
		2402	2.89	3.75	0.7707	77.07	1.13		PASS
2DH5	Ant1	2441	2.89	3.75	0.7707	77.07	1.13		PASS
		2480	2.89	3.75	0.7707	77.07	1.13		PASS
		2402	2.89	3.75	0.7707	77.07	1.13		PASS
3DH5	Ant1	2441	2.89	3.75	0.7707	77.07	1.13		PASS
		2480	2.89	3.75	0.7707	77.07	1.13		PASS



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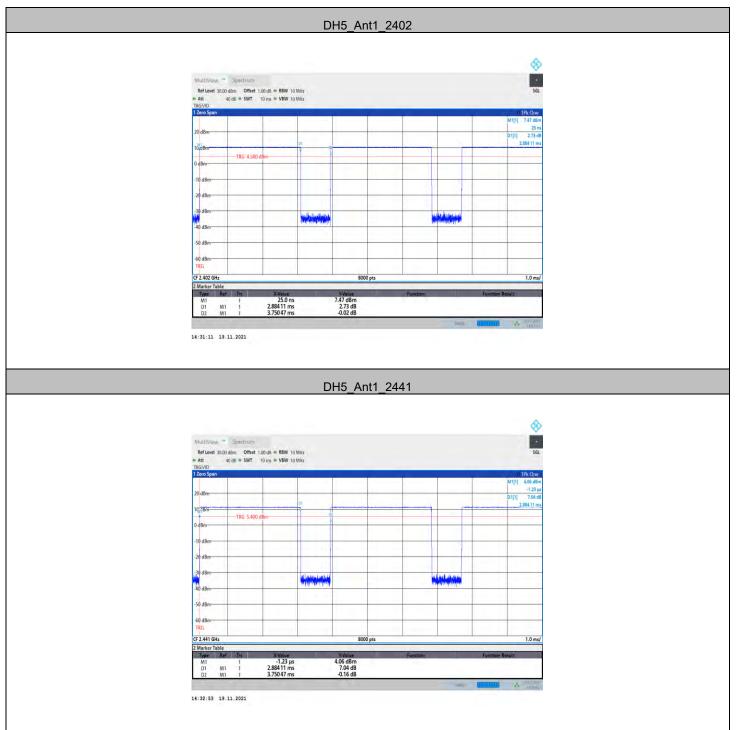
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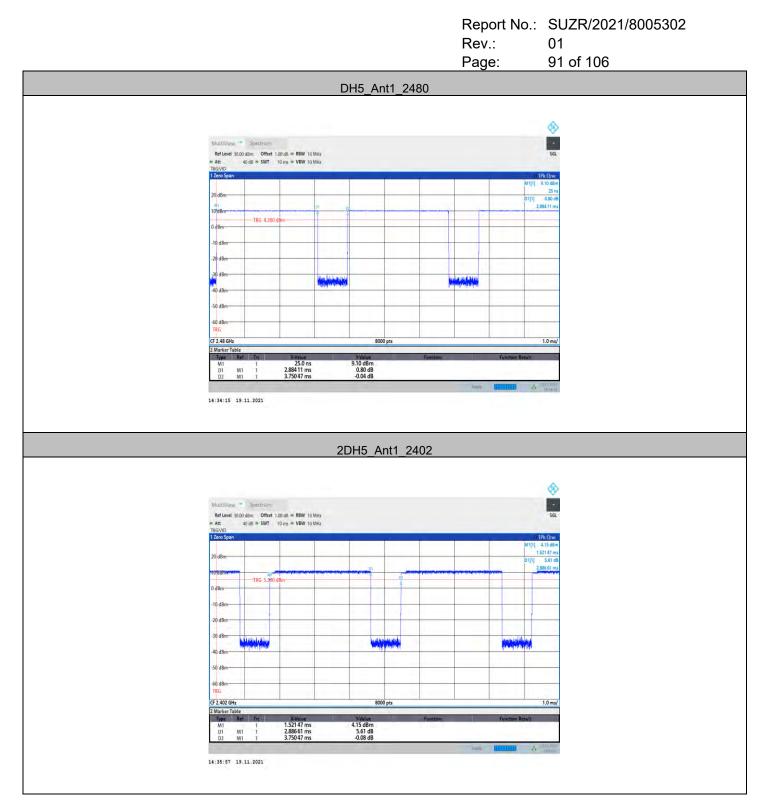




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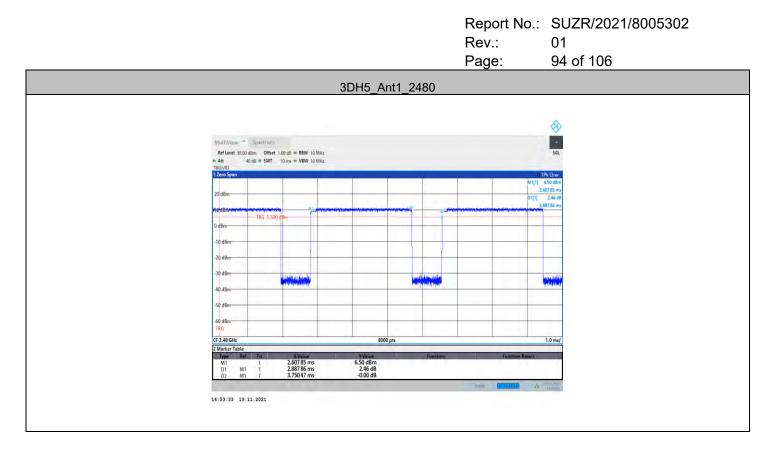
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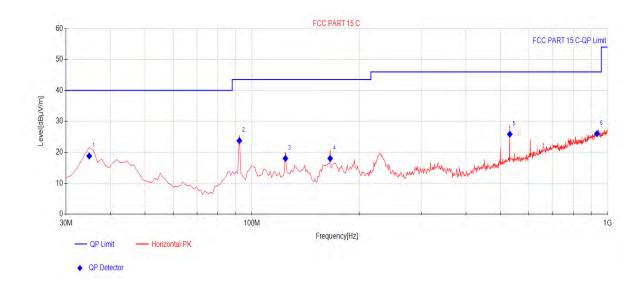
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Radiated Spurious Emissions

Radiated emission below 1GHz

GFSK _Channel 78 worse case



Data L	Data List												
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity					
1	34.8549	-23.31	18.81	40.00	21.19	187	29	Horizontal					
2	92.1421	-20.77	23.75	43.50	19.75	246	311	Horizontal					
3	124.1842	-21.48	18.02	43.50	25.48	115	113	Horizontal					
4	165.9359	-22.93	18.03	43.50	25.47	361	157	Horizontal					
5	531.0210	-12.21	25.85	46.00	20.15	109	65	Horizontal					
6	933.9740	-4.00	26.02	46.00	19.98	118	70	Horizontal					



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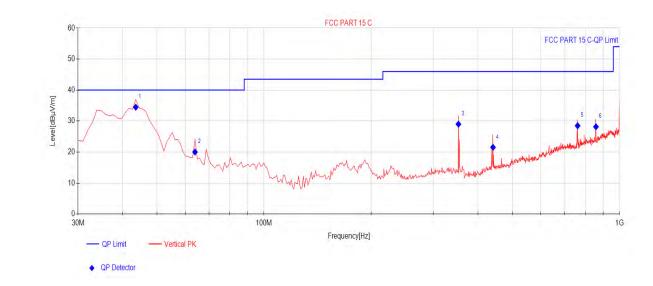
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GFSK _Channel 78 worse case

Data L	Data List													
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity						
1	43.5936	-21.17	34.48	40.00	5.52	162	142	Vertical						
2	63.9840	-23.49	20.02	40.00	19.98	112	236	Vertical						
3	352.3624	-16.12	29.00	46.00	17.00	302	218	Vertical						
4	440.7207	-14.25	21.53	46.00	24.47	106	86	Vertical						
5	762.1121	-7.66	28.49	46.00	17.51	226	310	Vertical						
6	858.2382	-5.69	28.16	46.00	17.84	116	252	Vertical						



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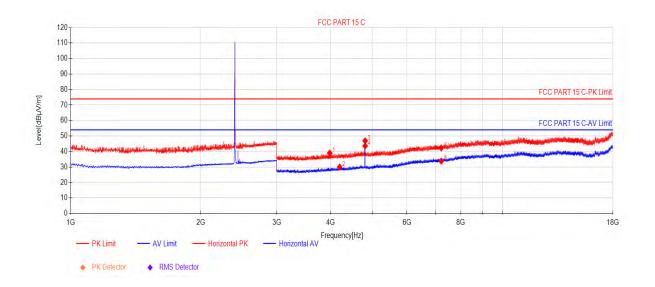
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Transmitter emission above 1GHz

EMISSION GFSK Channel 00



Data I	Data List												
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	3978.0000	53.94	-14.91	39.03	74.00	34.97	163	33	Horizontal				
2	4194.5000	44.16	-14.11	30.05	54.00	23.95	185	231	Horizontal				
3	4804.0000	59.28	-12.33	46.95	74.00	27.05	246	13	Horizontal				
4	4804.0000	55.95	-12.33	43.62	54.00	10.38	168	357	Horizontal				
5	7206.0000	39.74	-5.91	33.83	54.00	20.17	138	360	Horizontal				
6	7206.0000	48.27	-5.91	42.36	74.00	31.64	354	181	Horizontal				



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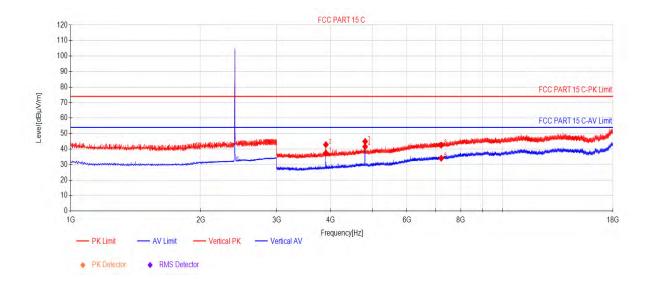
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EMISSION GFSK Channel 00



Data I	Data List													
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity					
1	3897.5000	52.56	-15.12	37.44	54.00	16.56	185	261	Vertical					
2	3897.5000	57.97	-15.12	42.85	74.00	31.15	352	271	Vertical					
3	4804.0000	57.22	-12.33	44.89	74.00	29.11	167	122	Vertical					
4	4804.0000	53.88	-12.33	41.55	54.00	12.45	246	122	Vertical					
5	7206.0000	39.99	-5.91	34.08	54.00	19.92	305	103	Vertical					
6	7206.0000	48.46	-5.91	42.55	74.00	31.45	192	242	Vertical					



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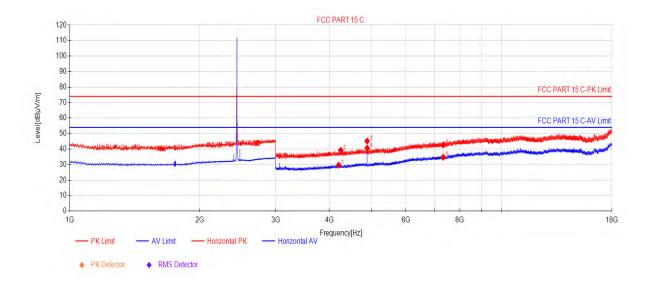
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EMISSION GFSK Channel 39



Data I	Data List													
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity					
1	4194.5000	43.70	-14.11	29.59	54.00	24.41	185	84	Horizontal					
2	4240.0000	53.22	-14.00	39.22	74.00	34.78	163	74	Horizontal					
3	4882.0000	57.66	-12.48	45.18	74.00	28.82	196	343	Horizontal					
4	4882.0000	53.12	-12.48	40.64	54.00	13.36	246	334	Horizontal					
5	7323.0000	40.21	-5.42	34.79	54.00	19.21	352	14	Horizontal					
6	7323.0000	48.11	-5.42	42.69	74.00	31.31	108	212	Horizontal					



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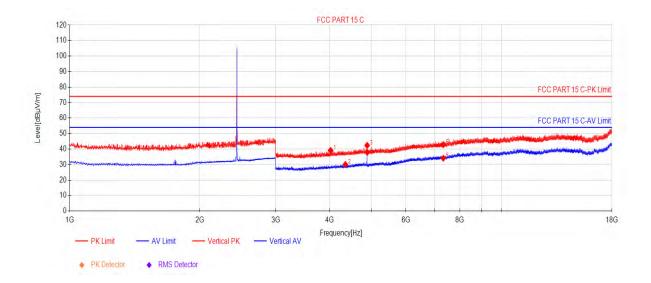
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EMISSION GFSK Channel 39



Data I	Data List													
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity					
1	4017.5000	53.88	-14.74	39.14	74.00	34.86	185	353	Vertical					
2	4346.5000	43.82	-13.77	30.05	54.00	23.95	163	131	Vertical					
3	4882.0000	54.85	-12.48	42.37	74.00	31.63	246	122	Vertical					
4	4882.0000	50.41	-12.48	37.93	54.00	16.07	106	113	Vertical					
5	7323.0000	39.50	-5.42	34.08	54.00	19.92	243	211	Vertical					
6	7323.0000	48.23	-5.42	42.81	74.00	31.19	168	72	Vertical					



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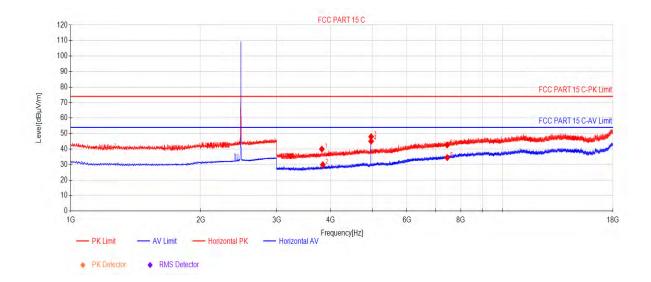
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EMISSION GFSK Channel 78



Data I	Data List													
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity					
1	3815.0000	55.24	-15.28	39.96	74.00	34.04	186	267	Horizontal					
2	3834.5000	45.13	-15.24	29.89	54.00	24.11	175	86	Horizontal					
3	4960.0000	60.40	-12.41	47.99	74.00	26.01	268	158	Horizontal					
4	4960.0000	57.45	-12.41	45.04	54.00	8.96	309	125	Horizontal					
5	7440.0000	39.84	-5.36	34.48	54.00	19.52	168	307	Horizontal					
6	7440.0000	47.99	-5.36	42.63	74.00	31.37	321	28	Horizontal					



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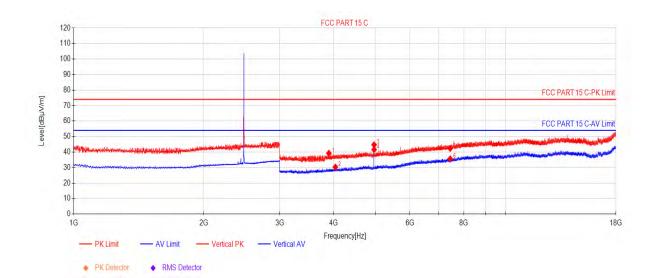
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EMISSION GFSK Channel 78

Data I	Data List													
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity					
1	3897.0000	54.37	-15.13	39.24	74.00	34.76	163	89	Vertical					
2	4034.5000	44.98	-14.64	30.34	54.00	23.66	185	185	Vertical					
3	4960.0000	57.11	-12.41	44.70	74.00	29.30	246	110	Vertical					
4	4960.0000	54.03	-12.41	41.62	54.00	12.38	385	99	Vertical					
5	7440.0000	47.74	-5.36	42.38	74.00	31.62	208	258	Vertical					
6	7440.0000	41.02	-5.36	35.66	54.00	18.34	310	78	Vertical					



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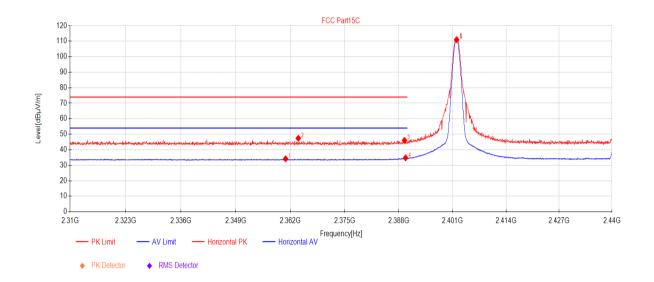
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Restricted bands around fundamental frequency BAND_EDGE GFSK Channel 00



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity					
1	2360.8469	31.05	3.14	34.19	54.00	19.81	133	67	Horizontal					
2	2363.8813	44.25	3.15	47.40	74.00	26.60	133	67	Horizontal					
3	2389.3698	42.79	3.26	46.05	74.00	27.95	133	67	Horizontal					
4	2389.6299	31.52	3.26	34.78	54.00	19.22	133	67	Horizontal					
5	2402.0000	107.69	3.31	111.00	53.92	-57.08	133	67	Horizontal					
6	2402.0000	108.11	3.31	111.42	73.89	-37.53	133	67	Horizontal					



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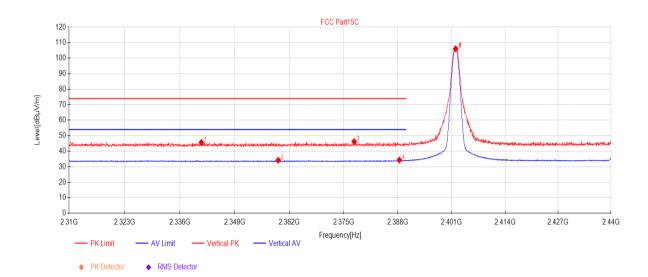
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BAND_ EDGE GFSK Channel 00

Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity					
1	2341.0804	42.64	3.05	45.69	74.00	28.31	350	110	Vertical					
2	2359.3298	31.04	3.13	34.17	54.00	19.83	350	110	Vertical					
3	2377.4925	43.07	3.21	46.28	74.00	27.72	350	110	Vertical					
4	2388.3728	31.07	3.25	34.32	54.00	19.68	350	110	Vertical					
5	2402.0000	102.82	3.31	106.13	53.92	-52.21	350	110	Vertical					
6	2402.0000	103.29	3.31	106.60	73.89	-32.71	350	110	Vertical					



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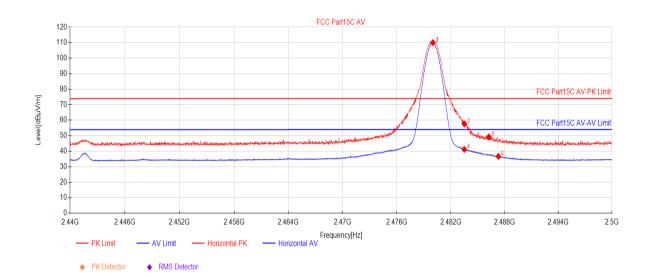
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BAND_ EDGE GFSK Channel 78

Data List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2480.0000	106.18	3.88	110.06	74.00	-36.06	152	70	Horizontal		
2	2480.0000	105.71	3.88	109.59	54.00	-55.59	152	70	Horizontal		
3	2483.5000	53.75	3.91	57.66	74.00	16.34	152	70	Horizontal		
4	2483.5000	37.28	3.91	41.19	54.00	12.81	152	70	Horizontal		
5	2486.2354	45.31	3.93	49.24	74.00	24.76	152	70	Horizontal		
6	2487.2958	32.75	3.94	36.69	54.00	17.31	152	70	Horizontal		



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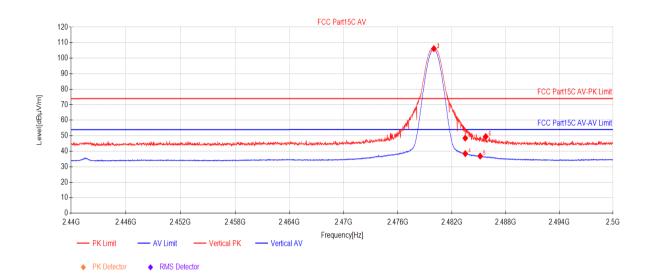
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BAND_ EDGE GFSK Channel 78

Data List										
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2480.0000	102.30	3.88	106.18	74.00	-32.18	373	110	Vertical	
2	2480.0000	101.85	3.88	105.73	54.00	-51.73	373	110	Vertical	
3	2483.5000	44.57	3.91	48.48	74.00	25.52	373	110	Vertical	
4	2483.5000	34.54	3.91	38.45	54.00	15.55	373	110	Vertical	
5	2485.1551	32.95	3.92	36.87	54.00	17.13	373	110	Vertical	
6	2485.7753	45.54	3.93	49.47	74.00	24.53	373	110	Vertical	

The End



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