

# FCC TEST REPORT

Application No:	ZR/2020/80027
Applicant:	TCL Communication Ltd.
Address of Applicant	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Manufacturer:	TCL Communication Ltd.
Address of Manufacturer	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
EUT Description:	LTE/UMTS/GSM mobile phone
Model No.:	5029F
Trade Mark:	alcatel
FCC ID:	2ACCJH119
Standards:	47 CFR FCC Part 2, Subpart J
	47 CFR Part 15, Subpart C
Test Method	KDB558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10 (2013)
Date of Receipt:	2019/12/27(for original report ZR/2019/C003504)
Date of Test:	2019/12/27 to 2020/1/16(for original report ZR/2019/C003504)
	2020/8/12 to 2020/8/20(for new report ZR/2020/8002704)
Date of Issue:	2020/1/16(for original report ZR/2019/C003504)
	2020/8/21(for new report ZR/2020/8002704)
Test Result:	PASS *

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Derde yang

Derek Yang Wireless Laboratory Manager



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Report No.: ZR/2020/8002704 Page: 2 of 89

# 1 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
00		2020/8/21		Original	

Authorized for issue by:		
Tested By	Mike Mu (Mike Hu) /Project Engineer	
Checked By	David Chen (David Chen) /Reviewer	



Report No.: ZR/2020/8002704 Page: 3 of 89

# 2 Test Summary

Test Item	Test Requirement	Test method	Test Result	Result
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.3	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.4	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.5	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.6	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	Clause 4.8	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS

#### Remark:

Declaration of changes from 5029E to 5029F, only memory layout changed, detail change is as below,

1. Memory chip is changed, from DDR4 to DDR3;

2. Delete little matching component of DDR4 memory;

3. Memory PMU position is changed;

4. Because the memory is different, the software version need update (V4F5P)

Except for the above changes, everything else is exactly the same

Considering to the difference in this report only the AC Power Line Conducted Emissions and RSE are

retested and other test data in this report are base on previous report with report number ZR/2019/C003504.



Report No.: ZR/2020/8002704 Page: 4 of 89

# Contents

1	VERSION	2
2	TEST SUMMARY	
3	GENERAL INFORMATION	5
	3.1 CLIENT INFORMATION	5
	3.2 Test Location	5
	3.3 TEST FACILITY	5
	3.4 GENERAL DESCRIPTION OF EUT	6
	3.5 TEST ENVIRONMENT	7
	3.6 DESCRIPTION OF SUPPORT UNITS	7
4	TEST RESULTS AND MEASUREMENT DATA	8
	4.1 ANTENNA REQUIREMENT	
	4.2 AC POWER LINE CONDUCTED EMISSIONS	9
	4.3 SPOT CHECK AC POWER LINE CONDUCTED EMISSIONS	
	4.4 DUTY CYCLE	
	4.4.1 Test Results	
	4.4.1 Test Plots	
	4.5 CONDUCTED OUTPUT POWER	
	4.5.1 Test Results	
	4.5.2 Test plots:	
	4.6 DTS (6 dB) BANDWIDTH & 99% OCCUPIED BANDWIDTH	
	4.6.1 Test Results	
	4.6.2 Test plots	
	4.7 Power Spectral Density	
	4.7.1 Test Results	
	4.7.2 Test plots	
	4.8 BAND-EDGE FOR RF CONDUCTED EMISSIONS	
	4.8.1 Test plots	
	4.9 Spurious RF Conducted Emissions	
	4.9.1 Test plots:	
	4.10 RADIATED SPURIOUS EMISSION	
	4.10.1 Radiated Emission below 1GHz	
	4.11 SPOT CHECK RADIATED SPURIOUS EMISSION	
	4.11.1 Transmitter Emission below 1GHz	
	4.11.2 Transmitter Emission above 1GHz	
	4.12 SPOT CHECK TRANSMITTER EMISSION ABOVE 1GHz	
	4.13 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	
	4.13.1 Test plots	
	4.14 SPOT CHECK RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	
	4.14.1 Test plots	
5	MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2)	
6	EQUIPMENT LIST	
7	PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	



Report No.: ZR/2020/8002704 Page: 5 of 89

# 3 General Information

# 3.1 Client Information

Applicant:	TCL Communication Ltd.
Address of Applicant:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Manufacturer:	TCL Communication Ltd.
Address of Manufacturer:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

# 3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Telephone:	+86 (0) 755 2601 2053
Fax:	+86 (0) 755 2671 0594
E-mail:	ee.shenzhen@sgs.com

# 3.3 Test Facility

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

#### • CNAS (No. CNAS L2929)

CNAS has accredited SGŚ-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

# The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### • Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.



Report No.: ZR/2020/8002704 Page: 6 of 89

# 3.4 General Description of EUT

EUT Description:	LTE/UMTS/GSM mobile phone
Model No.:	5029F
Trade Mark:	alcatel
Hardware Version:	PIO
Software Version:	V4F5P
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.
Bluetooth Version:	Bluetooth V5.0 LE
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	⊠ Portable Device, □Module
Antenna Type:	External, 🛛 Integrated
Antenna Gain:	0.36dBi
Power Supply:	AC/DC Adapter; Battery; PoE:; Other:

	No	.P/N	Remark	Comment
Adaptor	1	CBA0059AGAC7	UC13US;Chenyang 5V2A Charger	
	2	CBA0059AGAC5	UC13US ;PUAN 5V2A Charger	
USB	1	CDA0000024C8	PUAN	
cable	2	CDA0000024C2	JUWEI	
	1	CCB0046A10C1	JUWEI	
	2	CCB0046A10C4	MEIHAO	
	3	CCB0049A10C1	JUWEI	
	4	CCB0049A10C4	MEIHAO	
	5	CCB0046A15C1	JUWEI	CCB0046A15C1 Same with CCB0046A10C1, only remove alcatel logo
Headset	6	CCB0046A15C4	MEIHAO	CCB0046A15C4 Same with CCB0046A10C4, only remove alcatel logo
	7	CCB0049A12C1	JUWEI	CCB CCB0049A12C1 Same with CCB0049A10C1, only remove alcatel logo
	8	CCB0049A12C4	MEIHAO	CCB CCB0049A12C4 Same with CCB0049A10C4, only remove alcatel logo
	1	CAC3860024C1	TLp038D1; BYD	
Battery	2	CAC3860025C7	TLp038D7; VEKEN;	



Report No.: ZR/2020/8002704 Page: 7 of 89

	Operation Frequency of each channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

#### Remark:

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 (CH19)	2440MHz
The highest channel (CH39)	2480MHz

# 3.5 Test Environment

Operating Environment			
Temperature:	25.0 °C		
Humidity:	50 % RH		
Atmospheric Pressure:	101.32 KPa		

# 3.6 Description of Support Units

The EUT has been tested independent unit.



Report No.: ZR/2020/8002704 Page: 8 of 89

# 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 on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.36dBi.



Report No.: ZR/2020/8002704 Page: 9 of 89

4.2 AC	Power Line Condu	icted Emissions				
Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
	Frequency range (MHz)	Limit (dBuV)				
	Frequency range (MHz)	Quasi-peak	Average			
Lingite	0.15-0.5	66 to 56*	56 to 46*			
Limit:	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarit	hm of the frequency.				
Test Procedure:	<ol> <li>The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</li> <li>The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to</li> </ol>					
Test Setup:	ANSI C63.10: 2013 on conducted measurement.					
Test Mode:	Transmitting with GFSK mo Charge +Transmitting mode					



Report No.: ZR/2020/8002704 Page: 10 of 89

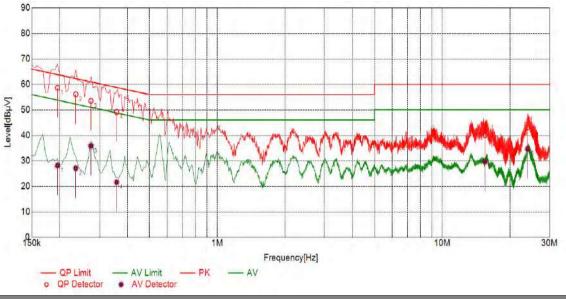
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

#### 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:

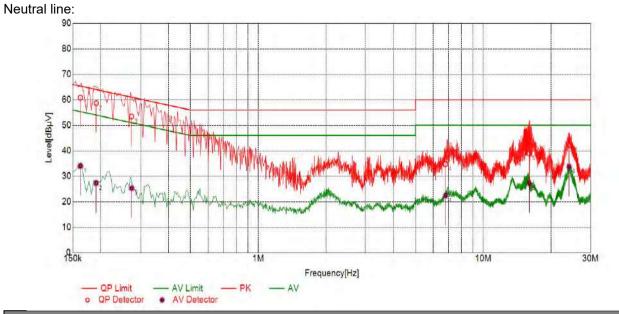


#### **Final Data List**

NO.	Freq. [MHz]	Factor [dB]	QP Value	QP Limit	QP Margin	AV Value	AV Limit	AV Margin	Туре
	[11112]	[ab]	[dBµV]	[dBµV]	[dB]	[dBµV]	[dBµV]	[dB]	
1	0.1951	10.10	58.63	63.82	5.19	28.17	53.82	25.65	L
2	0.2355	10.10	56.11	62.25	6.14	27.06	52.25	25.19	L
3	0.2751	10.10	53.51	60.96	7.45	35.83	50.96	15.13	L
4	0.3576	10.10	49.14	58.78	9.64	21.61	48.78	27.17	L
5	15.4856	10.11	40.01	60.00	19.99	29.71	50.00	20.29	L
6	23.9800	10.11	43.10	60.00	16.90	34.75	50.00	15.25	L



Report No.: ZR/2020/8002704 Page: 11 of 89



Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Туре
1	0.1623	10.10	60.83	65.35	4.52	34.01	55.35	21.34	Ν
2	0.1906	10.10	58.67	64.01	5.34	27.29	54.01	26.72	Ν
3	0.2742	10.10	53.44	60.99	7.55	25.27	50.99	25.72	Ν
4	6.8006	10.10	34.77	60.00	25.23	22.38	50.00	27.62	Ν
5	16.0002	10.11	38.93	60.00	21.07	27.26	50.00	22.74	Ν
6	24.0933	10.11	42.19	60.00	17.81	33.76	50.00	16.24	Ν

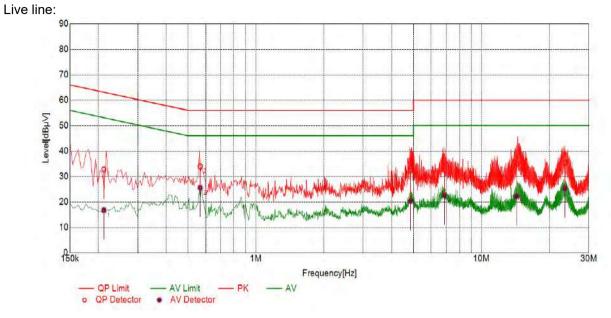
Remarks:

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

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



Report No.: ZR/2020/8002704 Page: 12 of 89



# 4.3 Spot Check AC Power Line Conducted Emissions

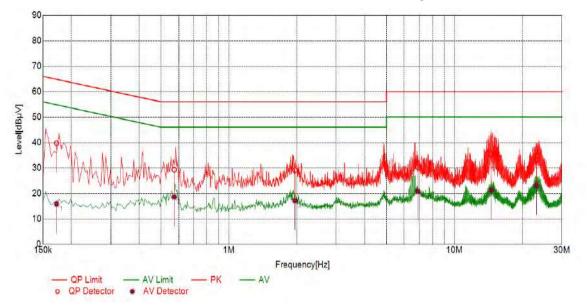
#### Test Graph

Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value	QP Limit	QP Margin	AV Value	AV Limit	AV Margin	Туре
1	0.2121	10.10	32.81	63.12	30.31	16.76	53.12	36.36	L
2	0.5673	10.10	33.97	56.00	22.03	25.62	46.00	20.38	L
3	4.8604	10.10	32.35	56.00	23.65	20.33	46.00	25.67	L
4	6.8555	10.10	32.77	60.00	27.23	22.60	50.00	27.40	L
5	14.3430	10.11	34.88	60.00	25.12	22.19	50.00	27.81	L
6	23.4679	10.11	35.28	60.00	24.72	25.43	50.00	24.57	L

Neutral line:



Report No.: ZR/2020/8002704 Page: 13 of 89



#### **Test Graph**

Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value	QP Limit	QP Margin	AV Value	AV Limit	AV Margin	Туре
1	0.1726	10.10	39.72	64.84	25.12	15.86	54.84	38.98	Ν
2	0.5733	10.10	29.32	56.00	26.68	18.63	46.00	27.37	Ν
3	1.9661	10.10	29.10	56.00	26.90	17.16	46.00	28.84	Ν
4	6.8984	10.10	30.19	60.00	29.81	20.85	50.00	29.15	Ν
5	14.5787	10.11	35.51	60.00	24.49	21.34	50.00	28.66	Ν
6	23.0963	10.11	33.15	60.00	26.85	23.15	50.00	26.85	Ν

Remarks:

- 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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Report No.: ZR/2020/8002704 Page: 14 of 89

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4.4.1	Test Results			
Test Mode		TX Freq. [MHz]	Duty c	cycle [%]
BLE 1M		CH0	60	0.80
BLE 2M		CH0	32	2.00

# 4.4.1 Test Plots

# 4.4.1.1 BLE 1M

lent Spectrum Anal						
L RF	50 Ω AC		SENSE:INT	ALIGN OFF	11:42:07 上午 一月 02, 202	Marker
arker 3 1.650	000 ms	PNO: Fast ↔ IFGain:Low	Trig: Free Run Atten: 40 dB	Avg Type: Log-Pwr Avg Hold: 1/1	TRACE 123456 TYPE MWWWWWW DET PPPPP	Select Marke
	Dffset 1 dB 30.00 dBm				Mkr3 1.650 ms -2.399 dBm	
9 .0 .0						Norm
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o						De
o o wytyływ	1	H-MAN AND	weight	htenhartyh	Whydrog	Fixe
nter 2.40200 s BW 1.0 MH	Iz		V 1.0 MHz		Span 0 Hz 3.000 ms (601 pts)	c
N 1 +	Х	1.025 ms	-2.376 dBm	JNCTION FUNCTION WIDTH	FUNCTION VALUE	
N 1 t N 1 t		1.405 ms 1.650 ms	-3.057 dBm -2.399 dBm			Propertie
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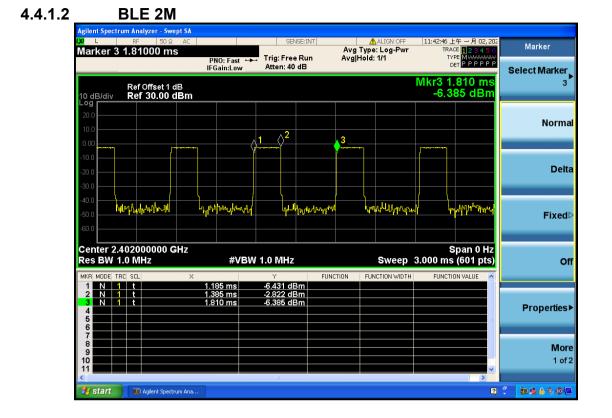


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Report No.: ZR/2020/8002704 Page: 15 of 89





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Report No.: ZR/2020/8002704 Page: 16 of 89

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)		
Test Method:	ANSI C63.10 :2013 Section 11.9.1.1		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Limit:	30dBm		
Test Mode:	Transmitting with GFSK modulation.		
Instruments Used:	Refer to section 5.10 for details.		
Test Results:	Pass		

# 4.5 Conducted Output Power

#### 4.5.1 Test Results Measurement Data of Average Power

GFSK 1M mode					
Test channel	Average Output Power (dBm)	Result			
Lowest	-3.04	Report purpose only			
Middle	-3.28	Report purpose only			
Highest	-3.19	Report purpose only			

GFSK 2M mode					
Test channel	Average Output Power (dBm)	Result			
Lowest	-3.24	Report purpose only			
Middle	-3.11	Report purpose only			
Highest	-3.09	Report purpose only			

#### Measurement Data of Peak Power:

	GFSK 1M mode		
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-1.96	30.00	Pass
Middle	-2.15	30.00	Pass
Highest	-2.12	30.00	Pass

GFSK 2M mode							
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	-1.91	30.00	Pass				
Middle	-2.05	30.00	Pass				
Highest	-2.07	30.00	Pass				



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Report No.: ZR/2020/8002704 Page: 17 of 89

4.5.2 Test plots:

4.5.2.1 GFSK 1M Lowest Channel



### 4.5.2.2 GFSK 1M\_Middle Channel





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Report No.: ZR/2020/8002704 Page: 18 of 89

### 4.5.2.3 GFSK 1M\_Highest Channel

ctrum Ana 11:45:50 上午 -1 Peak Search Marker 1 2.479800000000 GHz Avg Type: Log-Pwr AvglHold:>100/100 ACE 1 2 3 4 5 6 TYPE M Tria: Free Run TYPE PNO: Fast 🖵 IFGain:Low Atten: 40 dB Next Peak Mkr1 2.479 80 GHz -2.117 dBm Ref Offset 1 dB Ref 30.00 dBm 10 dB/div Next Pk Right Next Pk Left Marker Delta Center 2.48000 GHz #Res BW 3.0 MHz Span 20.00 MHz #Sweep 3.000 ms (601 pts) #VBW 8.0 MHz Mkr→CF FUNCTION FUNCTION WIDTH **EUNCTION VALUE** 2.479 80 GHz -2.117 dBm N 1 f Mkr→Ref Lvl More 1 of 2 2 0 10 4 4 9 0 **4** 🛃 start R Agilent Sp

#### 4.5.2.4

#### **GFSK 2M Lowest Channel**



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Report No.: ZR/2020/8002704 Page: 19 of 89

### 4.5.2.5 GFSK 2M\_Middle Channel

strum An Avg Type: Log-Pwr Avg Hold:>100/100 11:44:26 上午 -Peak Search Marker 1 2.4399333333333 GHz ACE 1 2 3 4 5 6 TYPE M Tria: Free Run TYPE PNO: Fast 🖵 IFGain:Low Atten: 40 dB Next Peak Mkr1 2.439 93 GHz -2.046 dBm Ref Offset 1 dB Ref 30.00 dBm 10 dB/div Next Pk Right Next Pk Left Marker Delta Center 2.44000 GHz #Res BW 3.0 MHz Span 20.00 MHz #Sweep 3.000 ms (601 pts) #VBW 8.0 MHz Mkr→CF FUNCTION FUNCTION WIDTH **EUNCTION VALUE** 2.439 93 GHz -2.046 dBm N 1 f Mkr→Ref Lvl More 1 of 2 2 0 10 4 4 9 0 **4** 🛃 start I Agilent Sp

#### 4.5.2.6

#### GFSK 2M\_Highest Channel



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Report No.: ZR/2020/8002704 Page: 20 of 89

# 4.6 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Limit:	≥ 500 kHz
Test Mode:	Transmitting with GFSK modulation.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

#### **Test Results** 4.6.1 Test 99% Occupied 6dB Emission Limit Mode Result Channel Bandwidth (MHz) Bandwidth (MHz) (kHz) Lowest 1.04 0.70 ≥500 Pass GFSK 1M Middle 1.04 0.68 ≥500 Pass 1.04 0.70 ≥500 Highest Pass

Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	2.06	1.17	≥500	Pass
GFSK 2M	Middle	2.06	1.17	≥500	Pass
	Highest	2.06	1.16	≥500	Pass



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Report No.: ZR/2020/8002704 Page: 21 of 89

#### 4.6.2 Test plots

4.6.2.1 GFSK 1M Lowest Channel





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### 4.6.2.2 GFSK 1M \_Middle Channel



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#### 4.6.2.3 GFSK 1M \_Highest Channel



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Report No.: ZR/2020/8002704 Page: 26 of 89



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> Report No.: ZR/2020/8002704 Page: 27 of 89

#### Test Requirement: 47 CFR Part 15C Section 15.247 (e) Test Method: ANSI C63.10 :2013 Section 11.10.2 Spectrum Analyzer ----E.U.T C Test Setup: Non-Conducted Table **Ground Reference Plane** Limit: ≤8.00dBm/3kHz Test Mode: Transmitting with GFSK modulation. Instruments Used: Refer to section 5.10 for details. Test Results: Pass

# 4.7 Power Spectral Density

#### 4.7.1 Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-17.17	≤8.00	Pass
GFSK 1M	Middle	-17.38	≤8.00	Pass
	Highest	-17.78	≤8.00	Pass

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-19.81	≤8.00	Pass
GFSK 2M	Middle	-19.99	≤8.00	Pass
	Highest	-19.90	≤8.00	Pass



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Report No.: ZR/2020/8002704 Page: 28 of 89

4.7.2 Test plots

4.7.2.1 GFSK 1M Lowest Channel



### 4.7.2.2 GFSK 1M \_Middle Channel





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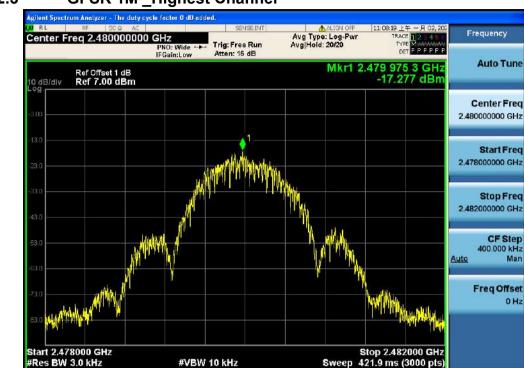


Report No.: ZR/2020/8002704 Page: 29 of 89

Man

0 Hz

2 6



#VBW 10 kHz

#### 4.7.2.3 GFSK 1M Highest Channel



D Aglent Spectrum Ana..

#Res BW 3.0 kHz

+ start

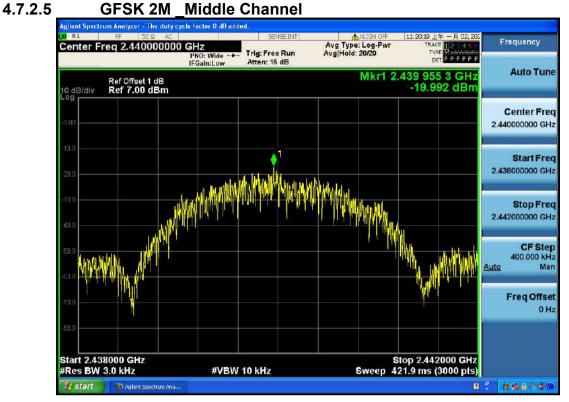




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Report No.: ZR/2020/8002704 Page: 30 of 89









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Report No.: ZR/2020/8002704 Page: 31 of 89

#### 47 CFR Part 15C Section 15.247 (d) Test Requirement: Test Method: ANSI C63.10: 2013 Section 11.13 Spectrum Analyzer \_\_\_\_ E.U.T 6 Test Setup: Non-Conducted Table Ground Reference Plane In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is Limit: 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 Mode: Transmitting with GFSK modulation. Instruments Used: Refer to section 5.10 for details. Test Results: Pass

# 4.8 Band-edge for RF Conducted Emissions



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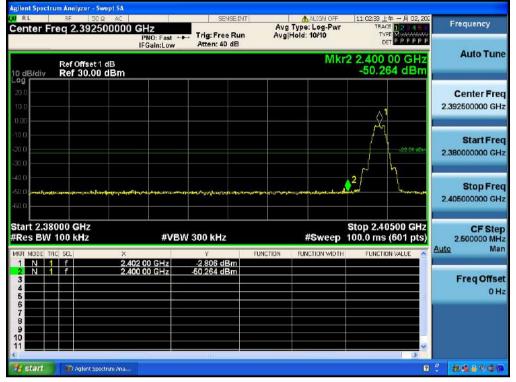
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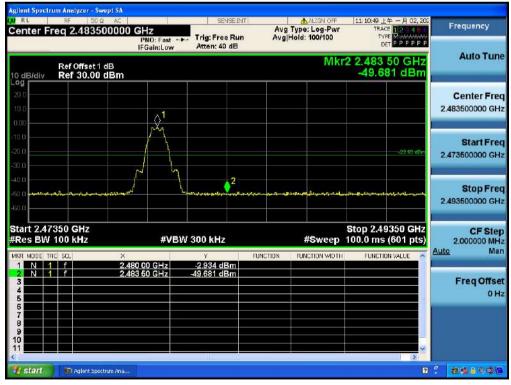
Report No.: ZR/2020/8002704 Page: 32 of 89

### 4.8.1 Test plots

### 4.8.1.1 GFSK 1M \_Lowest Channel



#### 4.8.1.2 GFSK 1M \_Highest Channel



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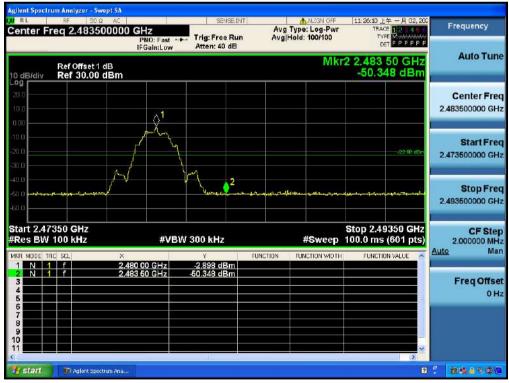


Report No.: ZR/2020/8002704 Page: 33 of 89

### 4.8.1.3 GFSK 2M \_Lowest Channel

ilent Spectri |11:19:09 上午 一月 02,203 TRACE <mark>1 2:3 4 5 1</mark> ALIGN Frequency Avg Type: Log-Pwr Avg|Hold: 10/10 Center Freg 2.392500000 GHz Trig: Free Run DET P P P P P P ast 🔸 PNO: Fast IFGain:Low Atten: 40 dB Auto Tune Mkr2 2.400 00 GHz Ref Offset 1 dB Ref 30.00 dBm -33 572 dBm 0 dB/div og **Center Freq** 2 392500000 GHz Start Freq 2.380000000 GHz 2 Stop Freq 2 405000000 GHz Stop 2.40500 GHz 100.0 ms (601 pts) Start 2.38000 GHz CF Step 2.500000 MHz #Res BW 100 kHz #VBW 300 kHz #Sweep Man Auto FUNCTION FUNCTION WID FI FUNCTION VALUE N 1 f N 1 f 2.402 00 GHz 2.400 00 GHz -2.788 dBm -33.572 dBm **Freq Offset** 0 Hz 🖅 start 💿 🔊 Aglent Spectrum Ana. 2 ? 







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Report No.: ZR/2020/8002704 Page: 34 of 89

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
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 Mode:	Transmitting with GFSK modulation.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

# 4.9 Spurious RF Conducted Emissions

SG



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Report No.: ZR/2020/8002704 Page: 35 of 89

4.9.1 Test plots:

4.9.1.1 GFSK 1M Lowest Channel



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Report No.: ZR/2020/8002704 Page: 36 of 89

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Report No.: ZR/2020/8002704 Page: 37 of 89

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Res BW	100 kHz Aglent Spectrum / rum Analyzer - Swept RF 50 Q /	SA AC DOO GHZ PNO: IFGair	Fast 🖵	SEN Trig: Free	Run	Avg Type	Sweep 9 ALIGN OFF 2: Log-Pwr >200/200	.600 ms ( 11.01:44 <u></u> TRAC TY DI .487 684	1001 pts) 12	Freque	ncy
Res BW	100 kHz Adamt Spectrum Analyzer - Swept SF 500 / req 2.4917500 Ref Offset 1 dB	SA AC DOO GHZ PNO: IFGair	Fast 🖵	SEN Trig: Free	Run	Avg Type	Sweep 9 ALIGN OFF 2: Log-Pwr >200/200	.600 ms ( 11.01:44 <u></u> TRAC TY DI .487 684	1001 pts) 2 2 4 — Я 02,202 г 1 2 1 4 5 г 1 2 1 4 5 1 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Freque	ncy o Tui
Res BW	100 kHz Adamt Spectrum Analyzer - Swept SF 500 / req 2.4917500 Ref Offset 1 dB	SA AC DOO GHZ PNO: IFGair	Fast 🖵	SEN Trig: Free	Run	Avg Type	Sweep 9 ALIGN OFF 2: Log-Pwr >200/200	.600 ms ( 11.01:44 <u></u> TRAC TY DI .487 684	1001 pts) 2 2 4 — Я 02,202 г 1 2 1 4 5 г 1 2 1 4 5 1 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Freque	ncy D Tui er Fri
Res BW	100 kHz Adamt Spectrum Analyzer - Swept SF 500 / req 2.4917500 Ref Offset 1 dB	SA AC DOO GHZ PNO: IFGair	Fast 🖵	SEN Trig: Free	Run	Avg Type	Sweep 9 ALIGN OFF 2: Log-Pwr >200/200	.600 ms ( 11.01:44 <u></u> TRAC TY DI .487 684	1001 pts) 2 2 4 — Я 02,202 г 1 2 1 4 5 г 1 2 1 4 5 1 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Freque	ncy o Tu er Fr
Res BW	100 kHz Adamt Spectrum Analyzer - Swept SF 500 / req 2.4917500 Ref Offset 1 dB	SA AC DOO GHZ PNO: IFGair	Fast 🖵	SEN Trig: Free	Run	Avg Type	Sweep 9 ALIGN OFF 2: Log-Pwr >200/200	.600 ms ( 11.01:44 <u></u> TRAC TY DI .487 684	1001 pts) 2 2 4 — Я 02,202 г 1 2 1 4 5 г 1 2 1 4 5 1 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Freques Auto Cente 2.4917500	ncy D Tul er Fra
Res BW start gilent Spect RL enter F d dB/dlv g co co co co co co co co co co	100 kHz Adamt Spectrum Analyzer - Swept SF 500 / req 2.4917500 Ref Offset 1 dB	SA AC DOO GHZ PNO: IFGair	Fast 🖵	SEN Trig: Free	Run	Avg Type	Sweep 9 ALIGN OFF 2: Log-Pwr >200/200	.600 ms ( 11.01:44 <u></u> TRAC TY DI .487 684	1001 pts) 2 2 4 — Я 02,202 г 1 2 1 4 5 г 1 2 1 4 5 1 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Freques Auto Cente 2.4917500	ncy D Tui er Fra 100 Gi
Res BW start gilent Spect RL enter F	100 kHz Adamt Spectrum Analyzer - Swept SF 500 / req 2.4917500 Ref Offset 1 dB	SA AC DOO GHZ PNO: IFGair	Fast 🖵	SEN Trig: Free	Run	Avg Type	Sweep 9 ALIGN OFF 2: Log-Pwr >200/200	.600 ms ( 11.01:44 <u></u> TRAC TY DI .487 684	1001 pts) 2 2 4 — Я 02,202 г 1 2 1 4 5 г 1 2 1 4 5 1 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Freques Auto Cento 2.4917500 Sta	ncy D Tui er Fra 100 Gi
Res BW	100 kHz Adamt Spectrum Analyzer - Swept SF 500 / req 2.4917500 Ref Offset 1 dB	SA AC DOO GHZ PNO: IFGair	Fast 🖵	SEN Trig: Free	Run	Avg Type	Sweep 9 ALIGN OFF 2: Log-Pwr >200/200	.600 ms ( 11.01:44 <u></u> TRAC TY DI .487 684	1001 pts) 2 2 4 — Я 02,202 г 1 2 1 4 5 г 1 2 1 4 5 1 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Frequer Auto Cento 2.4917500 Sta 2.4835000	ncy D Tui er Fri 000 Gi rt Fri 000 Gi
Res BW	100 kHz Adamt Spectrum Analyzer - Swept SF 500 / req 2.4917500 Ref Offset 1 dB	SA AC DOO GHZ PNO: IFGair	Fast 🖵	SEN Trig: Free	Run	Avg Type	Sweep 9 ALIGN OFF 2: Log-Pwr >200/200	.600 ms ( 11.01:44 <u></u> TRAC TY DI .487 684	1001 pts)	Frequer Auto Cento 2.4917500 Sta 2.4835000	ncy o Tul er Fri 000 Gi nt Fri 000 Gi
Res BW	100 kHz Adamt Spectrum Analyzer - Swept SF 500 / req 2.4917500 Ref Offset 1 dB	SA AC DOO GHZ PNO: IFGair	Fast 🖵	SEN Trig: Free	Run	Avg Type	Sweep 9 ALIGN OFF 2: Log-Pwr >200/200	.600 ms ( 11.01:44 <u></u> TRAC TY DI .487 684	1001 pts)	Frequer Auto Cento 2.4917500 Sta 2.4835000 Sto	ncy o Tul er Fri 000 Gi nt Fri 000 Gi
Res BW	100 kHz Adam Spectrum Analyzer - Swept SF 500 / req 2.4917500 Ref Offset 1 dB	SA AC DOO GHZ PNO: IFGair	Fast 🖵	SEN Trig: Free	Run	Avg Type	Sweep 9 ALIGN OFF 2: Log-Pwr >200/200	.600 ms ( 11.01:44 <u></u> TRAC TY DI .487 684	1001 pts)	Frequer Auto 2.4917500 Sta 2.4835000 Sto 2.5000000	ncy o Tui er Fri 000 Gi rt Fri 000 Gi p Fri 000 Gi
Res BW	100 kHz Adam Spectrum Analyzer - Swept SF 500 / req 2.4917500 Ref Offset 1 dB	SA AC DOO GHZ PNO: IFGair	Fast 🖵	SEN Trig: Free	Run	Avg Type	Sweep 9 ALIGN OFF 2: Log-Pwr >200/200	.600 ms ( 11.01:44 <u></u> TRAC TY DI .487 684	1001 pts)	Freques Auto Cento 2.4917500 Sta 2.4835000 Sto 2.5000000	ncy o Tui er Fri oo Gi p Fri oo Gi F Ste
Res BW	100 kHz Diadont spectrum rum Analyzer - Swepti SF 500 // req 2.4917500 Ref Offset 1 dB Ref 20.00 dBr	sa Vicini PNO: IFGair m	Fast -	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold	Sweep 9 SALION OFF :: Log-Pwr >200/200 Mkr1 2	11:01:44 L TRAC TRAC TV DI 487 681 -48.1	1001 pts) 7 — А 02, 202 4 — А 02, 202 4 — А 02, 202 5 — О с с 14 5 — С 7 — Р Р Р Р Р Р 0 о с с с с с с с с с с с с с с с с с с	Frequer Auto 2.4917500 Sta 2.4835000 Sto 2.5000000	ncy o Tui er Fri oo Gi p Fri oo Gi F Ste
Res BW	100 kHz Adam Spectrum Analyzer - Swept SF 500 / req 2.4917500 Ref Offset 1 dB	sa Vicini PNO: IFGair m	Fast -	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold	Sweep 9 SALION OFF :: Log-Pwr >200/200 Mkr1 2	11:01:44 L TRAC TRAC TV DI 487 681 -48.1	1001 pts) 7 — А 02, 202 4 — А 02, 202 4 — А 02, 202 5 — О с с 14 5 — С 7 — Р Р Р Р Р Р 0 о с с с с с с с с с с с с с с с с с с	Freques Auto 2.4917500 Sta 2.4835000 Sto 2.5000000 Auto	ncy o Tui or Fri 000 Gi p Fri 000 Gi F Ste
Res BW start glent Spect RL enter F 0 d B/div 9 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz Diadont spectrum rum Analyzer - Swepti SF 500 // req 2.4917500 Ref Offset 1 dB Ref 20.00 dBr	sa Vicini PNO: IFGair m	Fast -	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold	Sweep 9 SALION OFF :: Log-Pwr >200/200 Mkr1 2	11:01:44 L TRAC TRAC TV DI 487 681 -48.1	1001 pts) 7 — А 02, 202 4 — А 02, 202 4 — А 02, 202 5 — О с с 14 5 — С 7 — Р Р Р Р Р Р 0 о с с с с с с с с с с с с с с с с с с	Freques Auto Cento 2.4917500 Sta 2.4835000 Sto 2.5000000	ncy o Tui er Fri 000 Gi p Fri 000 Gi F Ste 000 Mi M
Res BW	100 kHz Diadont spectrum rum Analyzer - Swepti SF 500 // req 2.4917500 Ref Offset 1 dB Ref 20.00 dBr	sa Vicini PNO: IFGair m	Fast -	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold	Sweep 9 SALION OFF :: Log-Pwr >200/200 Mkr1 2	11:01:44 L TRAC TRAC TV DI 487 681 -48.1	1001 pts) 7 — А 02, 202 4 — А 02, 202 4 — А 02, 202 5 — О с с 14 5 — С 7 — Р Р Р Р Р Р 0 о с с с с с с с с с с с с с с с с с с	Freques Auto 2.4917500 Sta 2.4835000 Sto 2.5000000 Auto	ncy o Tui er Fri 000 Gi p Fri 000 Gi F Ste 000 Mi M
Res BW	100 kHz Diadont spectrum rum Analyzer - Swepti SF 500 // req 2.4917500 Ref Offset 1 dB Ref 20.00 dBr	sa Vicini PNO: IFGair m	Fast -	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold	Sweep 9 SALION OFF :: Log-Pwr >200/200 Mkr1 2	11:01:44 L TRAC TRAC TV DI 487 681 -48.1	1001 pts) 7 — А 02, 202 4 — А 02, 202 4 — А 02, 202 5 — О с с 14 5 — С 7 — Р Р Р Р Р Р 0 о с с с с с с с с с с с с с с с с с с	Freques Auto 2.4917500 Sta 2.4835000 Sto 2.5000000 Auto	ncy o Tui oo Gi rt Fra oo Gi p Fra oo Mi Mi Offs
Res BW	100 kHz Diadent spectrum rum Analyzer - Swepti SF 50 2 req 2.4917500 Ref Offset 1 dB Ref 20.00 dB 1 1 1 1 1 1 1 1 1 1 1 1 1	sa Vicini PNO: IFGair m	Fast -	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold	Sweep 9	110144 L 1784 1784 1784 1784 1784 1784 1784 1784	1001 pts) 2 + - А 02, 202 - 2 92 dDm - 2 92 dDm	Freques Auto 2.4917500 Sta 2.4835000 Sto 2.5000000 Auto	ncy o Tui or Fri 000 Gl p Fri 000 Gl F Ste 000 Mil M
Res BW	100 kHz Diadont spectrum rum Analyzer - Swepti SF 500 // req 2.4917500 Ref Offset 1 dB Ref 20.00 dBr	sa Vicini PNO: IFGair m	Fast F	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold	Sweep 9	11.01.44 L TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC	1001 pts) 7 — А 02, 202 4 — А 02, 202 4 — А 02, 202 5 — О с с 14 5 — С 7 — Р Р Р Р Р Р 0 о с с с с с с с с с с с с с с с с с с	Freques Auto 2.4917500 Sta 2.4835000 Sto 2.5000000 Auto	ncy o Tui er Fri 000 Gi p Fri 000 Gi F Ste 000 Mi M

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Report No.: ZR/2020/8002704 Page: 38 of 89

	11:02:18 上午 一月 02,202	ALIGN OFF	SENSE:INT	50 Q AC	
Frequency	TRACE 12145 F TYPE M	Avg Type: Log-Pwr Avg Hold: 10/10	Trig: Free Run #Atten: 40 dB	5000000000 GHz PNO: Fast IFGain:Low	Center Freq 14.500
Auto Tur	kr1 26.479 GHz -37.865 dBm	MI			Ref Offset 1 0 dB/div Ref 20.00
Center Fre 14.500000000 GF					10.0
Start Fre 2.500000000 GH					0.0
<b>Stop Fre</b> 26.50000000 GF	-22.92 cĐm				0.0
CF Ste 2.400000000 GH Auto Ma	n das daris et en este andelles.	Hay attent of a single state of the state	tele in the product of the second	Mination in a state of the stat	0.0
Freq Offs 0 I					0.0
	Stop 26.50 GHz 2.294 s (8001 pts)		300 kHz		tart 2.50 GHz Res BW 100 kHz

#### 4.9.1.2 GFSK 1M \_Middle Channel



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Report No.: ZR/2020/8002704 Page: 39 of 89

RL	rum Analyzer - Swept SA RF 50 Q ADC req 79.500 kHz		SENSE:INT	ALIGN OFF	11:04:35 上午 一月 02,20 TRACE 1 2 1 4 E	Frequency
ention I	104 73.300 KHZ	PNO: Wide G	Trig: Free Run #Atten: 26 dB	Avg Hold:>50/50	TRACE 12 145 TYPE M DET P P P P P	
	Ref Offset 1 dB	I Gameow			Mkr1 9.000 kHz	Auto Tu
) dB/div	Ref 0.00 dBm				-50.958 dBm	
og						Center Fr
0.0						79.500 k
0.0						Start Fr
0.0						9.000 k
0.0					.43:11 cBm	Stop Fr
1						150.000 k
0.0 4mm				Marrin Jord Marth		P
0.0	"Warn for					CF St
	A LEW LEW AND A LEW AND	Tell and the second				14.100 k Auto N
0:01		R. nel allow son of	Winny awerly all	16		No.
			, why have a second sec	We water the for how here the	hurson want fill warson on	Freq Offs
0.0						0
0.0						
tart 9.00	kHz				Stop 150.00 kHz	
tart 9.00 Res BW		#VBV	V 3.0 kHz	Sweep	Stop 150.00 kHz 134.8 ms (601 pts)	
			V 3.0 kHz	Sweep	134.8 ms (601 pts)	17 <u>818</u> 880
Res BW Start Glent Spectr	1.0 kHz Palent Spectrum Ana rum Analyzer - Swept SA				134.8 ms (601 pts) E	
Res BW start ilent Specti RL	1.0 kHz P Aglent Spectrum Ana	Hz	SENSE:INT	ALIGN OFF	134.8 ms (601 pts) 回 11:04:57 上午 一月 02,20	2
Res BW start ilent Specti RL	1.0 kHz Paglent Spectrum Ana rum Analyzer - Swept SA RF 50 Q A DC		SENSE:INT	ALIGN OFF	134.8 ms (601 pts) E	Frequency
Res BW start ilent Specti RL	1.0 kHz Pi Aglent Spectrum Ana um Analyzer - Swept SA SE SO ADC   req 15.075000 M	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts)	Frequency
Res BW start ilent Specto RL enter F	1.0 kHz Paglent Spectrum Ana rum Analyzer - Swept SA RF 50 Q A DC	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts) E 11:04:57 上午 ー月 02,20 17:06 月2 - 月 02,20 17:06 月2 - 月 02,20	Frequency
Res BW start illent Specto RL enter F	1.0 kHz Palent Spectrum Ana um Analyzer - Swept SA RF 500 ADC F reg 15.075000 M Ref Offset 1 dB	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts)	Frequency Auto Tu
Res BW	1.0 kHz Palent Spectrum Ana um Analyzer - Swept SA RF 500 ADC F reg 15.075000 M Ref Offset 1 dB	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts)	Frequency Auto Tu Center Fr
Res BW	1.0 kHz Palent Spectrum Ana um Analyzer - Swept SA RF 500 ADC F reg 15.075000 M Ref Offset 1 dB	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts)	Frequency Auto Tu Center Fr
Res BW	1.0 kHz Palent Spectrum Ana um Analyzer - Swept SA RF 500 ADC F reg 15.075000 M Ref Offset 1 dB	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts)	Frequency Auto Tu Center Fr 15.075000 M
Res BW start ilent Specto RL enter F	1.0 kHz Palent Spectrum Ana um Analyzer - Swept SA RF 500 ADC F reg 15.075000 M Ref Offset 1 dB	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts)	Frequency Auto Tu Center Fr 15.075000 M Start Fr
Res BW start ilent Spectr RL dB/dlv g dB/dlv	1.0 kHz Palent Spectrum Ana um Analyzer - Swept SA RF 500 ADC F reg 15.075000 M Ref Offset 1 dB	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts)	Frequency Auto Tu Center Fr 15.075000 M Start Fr
Res BW	1.0 kHz Palent Spectrum Ana um Analyzer - Swept SA RF 500 ADC F reg 15.075000 M Ref Offset 1 dB	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts)	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k
Res BW	1.0 kHz Palent Spectrum Ana um Analyzer - Swept SA RF 500 ADC F reg 15.075000 M Ref Offset 1 dB	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts)	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr
Res BW	1.0 kHz Palent Spectrum Ana um Analyzer - Swept SA RF 500 ADC F reg 15.075000 M Ref Offset 1 dB	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts)	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr
Res BW	1.0 kHz Palent Spectrum Ana um Analyzer - Swept SA RF 500 ADC F reg 15.075000 M Ref Offset 1 dB	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts)	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.00000 M
Res BW start ilent Specti RL	1.0 kHz Palent Spectrum Ana um Analyzer - Swept SA RF 500 ADC F reg 15.075000 M Ref Offset 1 dB	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts)	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF St 2.985000 M
Res BW	1.0 kHz Palent Spectrum Ana um Analyzer - Swept SA RF 500 ADC F reg 15.075000 M Ref Offset 1 dB	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts)	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF St 2.985000 M
Res BW	1.0 kHz Pi Aalent Spectrum Ana rum Analyzer - Swept SA FF 50 Q A DC req 15.075000 M Ref Offset 1 dB Ref 20.00 dBm	Hz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr Avg Hold:>50/50	134.8 ms (601 pts) ■ 11:04:57 上年 - A 02,20 TRACE 12:04:57 L年 - A 02,20 TRACE 12:04:57 L4 - A 02,20 TRACE 12:04:5	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF St 2.985000 M Auto N
Res BW	1.0 kHz Pi Aalent Spectrum Ana rum Analyzer - Swept SA FF 50 Q A DC req 15.075000 M Ref Offset 1 dB Ref 20.00 dBm	Hz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr Avg Hold:>50/50	134.8 ms (601 pts) ■ 11:04:57 上年 - A 02,20 TRACE 12:04:57 L年 - A 02,20 TRACE 12:04:57 L4 - A 02,20 TRACE 12:04:5	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M <u>CF St</u> 2.985000 M <u>Auto</u> N
Res BW	1.0 kHz Pi Aalent Spectrum Ana rum Analyzer - Swept SA FF 50 Q A DC req 15.075000 M Ref Offset 1 dB Ref 20.00 dBm	Hz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGN OFF	134.8 ms (601 pts) ■ 11:04:57 上年 - A 02,20 TRACE 12:04:57 L年 - A 02,20 TRACE 12:04:57 L4 - A 02,20 TRACE 12:04:5	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M <u>CF St</u> 2.985000 M <u>Auto</u> N
Res BW	1.0 kHz Pi Aalent Spectrum Ana rum Analyzer - Swept SA FF 50 Q A DC req 15.075000 M Ref Offset 1 dB Ref 20.00 dBm	Hz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr Avg Hold:>50/50	134.8 ms (601 pts) ■ 11:04:57 上年 - A 02,20 TRACE 12:04:57 L年 - A 02,20 TRACE 12:04:57 L4 - A 02,20 TRACE 12:04:5	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M <u>CF St</u> 2.985000 M <u>Auto</u> M
Res BW	1.0 kHz Pladent Spectrum Ana rum Analyzer - Swept SA FF SO ADC req 15.075000 M Ref Offset 1 dB Ref 20.00 dBm	Hz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr Avg Hold:>50/50	134.8 ms (601 pts) ■ 11:04:57 上年 - A 02,20 TRACE 12:04:57 L年 - A 02,20 TRACE 12:04:57 L4 - A 02,20 TRACE 12:04:5	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M

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Report No.: ZR/2020/8002704 Page: 40 of 89

	um Analyzer - Swept S RF 50.Q A		SENSE:INT	ALIGN OFF	11:05:19 上午 一月 02,20	
	req 1.1650000	00 GHz		Avg Type: Log-Pwr	TRACE 2 4 5	Frequency
		PNO: Fast G	Trig: Free Run #Atten: 40 dB	Avg Hold:>50/50	DET P P P P F	
	Ref Offset 1 dB			Mkr	1 2.059 66 GHz	Auto Tu
) dB/div	Ref 20.00 dBr	n			-46.627 dBm	
- S						Center Fr
o.a						1.165000000 G
1:00						Start Fr
0.0						30.000000 M
0.0						
20.0					323.d1 eBm	StonEn
					-23.11 (0)	Stop Fn 2,300000000 G
0.0						
						CF Sto
10.0					<b>▲</b> 1	227.000000 M
0.0	and the second second second		and day on a dama bit	ويتقربون ويتبغ المامل وأبريا والمتعاد ومنته	I Provide the Albert of the State	<u>Auto</u> M
and in case	abult of the House Statistics in the	the sector of the sector s	the literation of the lateral state of the		MARK AREAS AND A DESCRIPTION OF A DESCRI	
0.0						Freq Offs 0
70.0						
🛃 start	100 kHz	na	300 kHz	Sweep 2	Stop 2.300 GHz 17.1 ms (8001 pts) E	1.2 <b>216</b> 290
Res BW start glent Specti RL	100 kHz Palent Spectrum A um Analyzer - Swept S RF 50 Q A	na A	300 kHz	ALIGN OFF	17.1 ms (8001 pts) E	
Res BW start glent Specti RL	100 kHz De Aalent Spectrum A um Analyzer - Swept S	na C 100 GHz PN0: Fast	SENSE:INT		17.1 ms (8001 pts) E	
Res BW start start start start	100 kHz P Aglent Spectrum A um Analyzer - Swept S RF 500 A req 2.3500000	na A Gloo GHz	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	17.1 ms (8001 pts) 11:05:80 上キ ー月 02,20 18:05:11 日 - 1 日 02,20 18:05:11 日 - 1 H - 1 H	Frequency
Res BW start ilent Spectr RL enter F	100 kHz Palent Spectrum A um Analyzer - Swept S RF 50 Q A	na A C DOO GHZ PNO: Fast IFGain:Low	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	17.1 ms (8001 pts) E	Frequency
Res BW start silent Spectr RL enter F	100 kHz Adent Spectrum A um Analyzer - Swept S SF 50.2 A req 2.3500000	na A C DOO GHZ PNO: Fast IFGain:Low	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	17.1 ms (8001 pts) 11.05:30 ± + - A 02,20 11.05:30 ± + - A 02,20 11.05:40 ±	Frequency Auto Tu
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Report No.: ZR/2020/8002704 Page: 41 of 89

	um Analyzer - Swept S RF 50 Q A		CONCEAUT	A MICH OF	11:05:39 上午 一月 02,20	
	req 2.4917500		SENSE:INT	ALIGN OFF Avg Type: Log-Pwr	TRACE TO A ST	Frequency
		PNO: Fast 😱 IFGain:Low	Trig: Free Run #Atten: 40 dB	Avg Hold:>200/200	TYPE MUNICIPALITY DET P P P P P	1
				Mkr1 2	2.497 332 5 GHz	Auto Tu
) dB/div	Ref Offset 1 dB Ref 20.00 dBr	n			-48.754 dBm	
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tout 0.40	3500 GHz				Stop 2.500000 GHz	
	JUUU GHZ				Stop 2.300000 GHZ	
Res BW	100 kHz	#VBW	300 kHz	Sweep	1.600 ms (601 pts)	
	100 kHz		300 kHz	Sweep	1.600 ms (601 pts)	
🛃 start	🔊 Aglent Spectrum A	na	300 kHz	Sweep		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
<b>e start</b> gilent Spectr	🗊 Aglent Spectrum A um Analyzer - Swept S	na			12	1.7 104490
<b>i start</b> gilent Spectr	🔊 Aglent Spectrum A	na A GIOO0 GHz	SENSE:INT	ALIGN OFF	11:06:13 上午 一月 02,20  1844年 <b>日</b> 27-14 5	Frequency
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Report No.: ZR/2020/8002704 Page: 42 of 89

#### 4.9.1.3 GFSK 1M \_Highest Channel



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Report No.: ZR/2020/8002704 Page: 43 of 89

RL	um Analyzer - Swe RF 50 Q (			SEI	NSE:INT		ALIGN OFF	11:09:09 上	午一月 02,203	-	and the second second
enter F	req 15.0750	00 MHz	NO: Fast 😱	Trig: Free	e Run	Avg Type Avg Hold:	: Log-Pwr >50/50	TRAC TYP	E 12 145 C	Fred	uency
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Report No.: ZR/2020/8002704 Page: 44 of 89

	rum Analyzer - Sv RF 50			055	ISE:INT		LINE COLLEGE	11:00:42 F	午一月 02,202	-	_
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<b>start</b> lent Spectr	🔊 🔊 Aglent Spe rum Analyzer - Sv	wept SA	#VBW						2		9. Q
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dB/div dB/di dD/di dB/di dB/di dD/di dD/di dD/di dD/di dD/di dD/di dD/di dD/di dD/di dD/	Ref Offset 1 Ref 20.00	wept SA	Hz PN0: Fast FGain:Low	Trig: Free #Atten: 40	ISE.INT	Avg Type Avg Hold	Mkr1 2	11:09:51 ± TRAC TYS 495 297 -47.7	2200 dbn	Frequen Auto Cente 2.49175000 Star 2.48350000 2.50000000 CF 1.65000 Auto	Tu Tu Tu Tu Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr Tr

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Report No.: ZR/2020/8002704 Page: 45 of 89

	11:10:25 上午 一月 02,202	ALIGN OFF	SENSE:INT		
Frequency	TRACE 1 2 1 4 5 F TYPE M	Avg Type: Log-Pwr Avg Hold: 10/10	Trig: Free Run #Atten: 40 dB	eq 14.500000000 GHz PNO: Fast IFGain:Low	enter Freq 14.500
Auto Tur	kr1 26.494 GHz -38.446 dBm	M		Ref Offset 1 dB Ref 20.00 dBm	
Center Fre 14.500000000 GF					10.0
Start Fre 2.500000000 GH					100
<b>Stop Fre</b> 26.500000000 GF	-23 00 cBm				80.0
<b>CF St</b> e 2.400000000 GH <u>Auto</u> Ma	i di mangangkan kangang kaki ka	الالم أمام المراجع الم	مودياها بالمرينية المريمة الم	in phaticheological anna dù anna dù anna dù	10.0
Freq Offs 0 F					0.0
					70.0
	Stop 26.50 GHz 2.294 s (8001 pts)	Sweep	300 kHz		tart 2.50 GHz Res BW 100 kHz

#### 4.9.1.4 GFSK 2M \_Lowest Channel



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Report No.: ZR/2020/8002704 Page: 46 of 89

RL	rum Analyzer - Swept SA RF 500 ADC req 79.500 kHz	PNO: Wide C	SENSE:INT Trig: Free Run #Atten: 26 dB	Avg Type: Log-Pwr Avg Hold:>50/50	11:17:16 上午 一月 02,200 TRACE 12:14 5 TYPE MWWWWW DET P P P P P P	Frequency
dB/div	Ref Offset 1 dB Ref 0.00 dBm	i dameon		M	kr1 12.290 kHz -50.578 dBm	Auto Tu
<b>.</b> 0						Center Fr 79.500 k
 						Start Fr 9.000 k
10 10					-42.89 :Elm	<b>Stop Fr</b> 150.000 k
<sup>00</sup> مريم 1.0	handrey at her and hand have a second			Ĩ~ĩð¤4∏≈q <sub>10</sub> arlan <sup>1</sup> r.clanel		CF St 14.100 k Auto N
3.0 3.0		<sup>n-</sup> hingmonthafflices	ᡃ᠋ᢝ᠋ᢏᢂᡊᡔ᠈ᡟᡊᢧ᠕ᡁᡁᠰ	hand the second	war Ann win boly has	Freq Offs
0.0						0
tes BW	1.0 kHz		V 3.0 kHz	Sweep	Stop 150.00 kHz 134.8 ms (601 pts)	<sup>7</sup> Handa A. A. A.
Res BW start ilent Spectr			V 3.0 kHz		134.8 ms (601 pts)	
Res BW start lent Spectr RL	1.0 kHz Definit Spectrum Ana rum Analyzer - Swept SA		SENSE:INT		134.8 ms (601 pts) ឆ	은 한당은 아이 Frequency
tes BW start ent Spectr RL enter F	1.0 kHz Palent Spectrum Ana rum Analyzer - Swept SA RF 50 & ADC	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts)	Frequency
des BW start lent Spectr RL onter F dB/dIv g	1.0 kHz Triadant Spectrum Ana rum Analyzer - Swept SA RF 500 A DC 1 req 15.075000 M Ref Offset 1 dB	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts) 23 11:17:33 上キ - A 02,20: TRACE 02:145: TRACE 02:145: TR	Frequency Auto Tu Center Fr
dB/div	1.0 kHz Triadant Spectrum Ana rum Analyzer - Swept SA RF 500 A DC 1 req 15.075000 M Ref Offset 1 dB	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts) 23 11:17:33 上キ - A 02,20: TRACE 02:145: TRACE 02:145: TR	Frequency Auto Tu Center Fr 15.075000 M Start Fr
Res BW start RL enter F dB/div g aa aa aa	1.0 kHz Triadant Spectrum Ana rum Analyzer - Swept SA RF 500 A DC 1 req 15.075000 M Ref Offset 1 dB	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts) 23 11:17:33 上キ - A 02,20: TRACE 02:145: TRACE 02:145: TR	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr
dB/dIV	1.0 kHz Triadant Spectrum Ana rum Analyzer - Swept SA RF 500 A DC 1 req 15.075000 M Ref Offset 1 dB	Hz PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts)	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M
start	1.0 kHz Piralent Spectrum Ana rum Analyzer - Swept SA FF SC ALCO ireq 15.075000 M Ref Offset 1 dB Ref 20.00 dBm	Hz PNO: Fast	SENSE:INT Trig: Free Run #Atten: 40 dB	AvgType: Log-Pwr AvgHold:>50/60	134.8 ms (601 pts) 2 11:17:33 ⊥+ - A 02,20 TRACE D2:145 T DET PPFFFF Mkr1 160 kHz -40.399 dBm	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF St 2.985000 M N Freq Offs
Res BW	1.0 kHz Piralent Spectrum Ana rum Analyzer - Swept SA FF SC ALCO ireq 15.075000 M Ref Offset 1 dB Ref 20.00 dBm	Hz PNO: Fast	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGN OFF	134.8 ms (601 pts) 2 11:17:33 ⊥+ - A 02,20 TAA22 D2:145 T DET PPFFFF Mkr1 160 kHz -40.399 dBm	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M

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Report No.: ZR/2020/8002704 47 of 89 Page:

	um Analyzer - Swept S RF 50 Q A		SENSE:INT	ALIGN OFF	11:17:59 上午 一月 02,20	5
	req 1.1650000	00 GHz	Taka Sana Ban	Avg Type: Log-Pwr Avg Hold:>50/50	TRACE 12 15	Frequency
		PNO: Fast G	#Atten: 40 dB		DET PPPPF	Austa To
( 1949) (194	Ref Offset 1 dB			Mk	r1 2.258 57 GHz -46.531 dBm	Auto Tu
dB/div g	Ref 20.00 dBr	n			-46.551 GBm	I.
						Center Fr
0.0						1.165000000 G
						H
						Start Fr
0.01						30.000000 M
a.a.						B.
J.U.					-22.89 dDn	
						2.300000000 G
						CF St
0.01					1	227.000000 M
a.a.	angla menda unduksi padalad	turnel mer it an the hidden	tains the fast of line shills.	the state of the second state of the		Auto N
a destruction	and the state of the	a disconding a provide designed a	China de la companya			Ener Off
3.0						Freq Offs 0
0.0						
0.0						
art 30 N			,		Stop 2.300 GHz	
	100 kHz	#VBW	300 kHz	Sweep	217.1 ms (8001 pts)	
			300 kHz	Sweep		i 1. <del>Nga</del> og
Res BW // start ilent Spectr	100 kHz Palent Spectrum / um Analyzer - Swept S	ma			I	12 104890
Res BW start ilent Spectr RL	IOO kHz Palent Spectrum / um Analyzer - Swept S RF 50 Q 4	ina 5 <b>A</b>	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr	I	12 104890
Res BW start ilent Spectr RL	100 kHz Palent Spectrum / um Analyzer - Swept S	ina 5 <b>A</b>	SENSE:INT	ALIGN OFF	1	17 <u>81489</u> 0
Res BW start ilent Spectr RL	100 kHz Adiant Spectrum / um Analyzer - Swept S RF 502 A req 2.3500000	na 5A 500 GHz PN0: Fast C	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	11:18:11_1+ - Я 02, 22 Тялос П.2:14 - К Туре Милики ост P P P F F F kr1 2.400 0 GH2	Frequency
Res BW start ilent Spectr RL enter Fi	IOO kHz Palent Spectrum / um Analyzer - Swept S RF 50 Q 4	na 5A 500 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	11:18:11 上午 一月 02, 22 TRACE 12:14 年 TYPE Minteriory DET P P P P F	Frequency
Res BW start ilent Spectr RL enter Fi	100 kHz Adent Spectrum A sp 30 Q A req 2.3500000 Ref Offset 1 dB	na 5A 500 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	11:18:11_1+ - Я 02, 22 Тялос П.2:14 - К Туре Милики ост P P P F F F kr1 2.400 0 GH2	Frequency Auto Tu
Res BW	100 kHz Adent Spectrum A sp 30 Q A req 2.3500000 Ref Offset 1 dB	na 5A 500 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	11:18:11_1+ - Я 02, 22 Тялос П.2:14 - К Туре Милики ост P P P F F F kr1 2.400 0 GH2	Frequency Auto Tu Center Fr
Res BW start ilent Spectr RL enter Fi	100 kHz Adent Spectrum A sp 30 Q A req 2.3500000 Ref Offset 1 dB	na 5A 500 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	11:18:11_1+ - Я 02, 22 Тялос П.2:14 - К Туре Милики ост P P P F F F kr1 2.400 0 GH2	Frequency Auto Tu Center Fr
Res BW start Ilent Spectr RL enter Fi	100 kHz Adent Spectrum A sp 30 Q A req 2.3500000 Ref Offset 1 dB	na 5A 500 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	11:18:11_1+ - Я 02, 22 Тялос П.2:14 - К Туре Милики ост P P P F F F kr1 2.400 0 GH2	Frequency Auto Tu Center Fr 2.35000000 G
Res BW start ilent Spectr Rt enter Fr	100 kHz Adent Spectrum A sp 30 Q A req 2.3500000 Ref Offset 1 dB	na 5A 500 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	11:18:11_1+ - Я 02, 22 Тялос П.2:14 - К Туре Милики ост P P P F F F kr1 2.400 0 GH2	Frequency Auto Tu Center Fr 2.35000000 G Start Fr
Res BW start ilent Spectr RL enter Fi dB/div 9 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz Adent Spectrum A sp 30 Q A req 2.3500000 Ref Offset 1 dB	na 5A 500 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	11:18:11_1+ - Я 02, 22 Тялос П.2:14 - К Туре Милики ост P P P F F F kr1 2.400 0 GH2	Frequency Auto Tu Center Fr 2.35000000 G Start Fr
Res BW	100 kHz Adent Spectrum A sp 30 Q A req 2.3500000 Ref Offset 1 dB	na 5A 500 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	11:18:11_1+ - Я 02, 22 Тялос П.2:14 - К Туре Милики ост P P P F F F kr1 2.400 0 GH2	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G
Res BW	100 kHz Adent Spectrum A sp 30 Q A req 2.3500000 Ref Offset 1 dB	na 5A 500 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	11.18:11_12 - А.02,20 Тялее 112:14:1 туре трер гре kr1 2.400 0 GH2 -34.240 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G
Res BW	100 kHz Adent Spectrum A sp 30 Q A req 2.3500000 Ref Offset 1 dB	na 5A 500 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	11.18:11_12 - А.02,20 Тялее 112:14:1 туре трер гре kr1 2.400 0 GH2 -34.240 dBm	Frequency Auto Tu Center Fr 2.35000000 G Start Fr 2.40000000 G
Res BW start ilent Spectr RL enter Fr 0 dB/dlv 9 0 dB/dlv 0 d 0 dB/dlv 0 d 0 dB/dlv 0 dB/dlv 0 dB/dlv 0 dB/dlv 0 dB/dlv	100 kHz Adent Spectrum A sp 30 Q A req 2.3500000 Ref Offset 1 dB	na 5A 500 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	11.18:11_12 - А.02,20 Тялее 112:14:1 туре трер гре kr1 2.400 0 GH2 -34.240 dBm	Frequency
Res BW	100 kHz	nà 54 C 100 GHz PNO: Fast IFGain:Low	SENSE:INT	Avg Type: Log-Pur Avg Type: Log-Pur Avg Hold:>200/200	11 18:11_1 — - А 02, 22 Тяасе [] 2 4 5 Туре Муничин от 9 2 9 Р Р Р kr1 2.400 0 GHz -34.240 dBm	Erequency           Auto Tu           Center Fr           2.350000000 G           Start Fr           2.30000000 G           Start Fr           2.40000000 G           Center Fr           2.0000000 G           Center Fr           2.30000000 G           Center Fr           2.30000000 G           Center Fr           2.30000000 G           Center Fr           2.30000000 G           Center Fr           2.300000000 G
Res BW start ilent Spectr RL enter Fi 0 dB/dlv og 0.0 0.0 0.0 0.0	100 kHz	nà 54 C 100 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN OFF Avg Type: Log-Pwr Avg Hold>200/200	11 18:11_1 — - А 02, 22 Тяасе [] 2 4 5 Туре Муничин от 9 2 9 Р Р Р kr1 2.400 0 GHz -34.240 dBm	Frequency           Auto Tu           Center Fr           2.350000000 G           Start Fr           2.300000000 G           Stop Fr           2.400000000 G           10.00000 M           Auto M
Res BW start ilent Spectr RL enter Fi 0 dB/dlv og 0.0 0.0 0.0 0.0	100 kHz	nà 54 C 100 GHz PNO: Fast IFGain:Low	SENSE:INT	Avg Type: Log-Pur Avg Type: Log-Pur Avg Hold:>200/200	11 18:11_1 — - А 02, 22 Тяасе [] 2 4 5 Туре Муничин от 9 2 9 Р Р Р kr1 2.400 0 GHz -34.240 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.40000000 G 10.00000 M Auto M Freq Offs
Res BW	100 kHz	nà 54 C 100 GHz PNO: Fast C IFGain:Low	SENSE:INT	Avg Type: Log-Pur Avg Type: Log-Pur Avg Hold:>200/200	11 18:11_1 — - А 02, 22 Тяасе [] 2 4 5 Туре Муничин от 9 2 9 Р Р Р kr1 2.400 0 GHz -34.240 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.40000000 G 10.00000 M Auto M Freq Offs
Res BW	100 kHz	nà 54 C 100 GHz PNO: Fast C IFGain:Low	SENSE:INT	Avg Type: Log-Pur Avg Type: Log-Pur Avg Hold:>200/200	11 18:11_1 — - А 02, 22 Тяасе [] 2 4 5 Туре Муничин от 9 2 9 Р Р Р kr1 2.400 0 GHz -34.240 dBm	Frequency Auto Tu Center Fr 2.350000000 G Start Fr 2.40000000 G 10.00000 M Auto M Freq Offs
Res BW	100 kHz	nà 54 C 100 GHz PNO: Fast C IFGain:Low	SENSE:INT	Avg Type: Log-Pur Avg Type: Log-Pur Avg Hold:>200/200	11 18:11 1 ← - A 02, 22 TRACE 12:4 45 TYPE AND 0 GH2 -34, 240 dBm -34, 240 dBm -22 89 dm -1	Frequency           Auto Tu           Center Fr           2.350000000 G           Start Fr           2.300000000 G           Start Fr           2.400000000 G           CF St           10.000000 M           Auto M           Freq Offs           0
Res BW	100 kHz	mà	SENSE:INT	Avg Type: Log-Pur Avg Type: Log-Pur Avg Hold:>200/200 M	11 18:11_1 — - А 02, 22 Тяасе [] 2 4 5 Туре Муничин от 9 2 9 Р Р Р kr1 2.400 0 GHz -34.240 dBm	Frequency           Auto Tu           Center Fr           2.350000000 G           Start Fr           2.300000000 G           Stop Fr           2.400000000 G           CF St           10.00000 M           Auto M           Freq Offs           0

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sgs.china@sgs.com



Report No.: ZR/2020/8002704 48 of 89 Page:

	um Analyzer - Swept SA RF 50.0 AC		SENSE:INT	<b>A</b> at 1	ION OFF	10-70 L & B 40 707	
	req 2.49175000		Senseinni	Avg Type: L	og-Pwr	18:20 上午 一月 02, 200 TRACE 12 14 5 1 TYPE M	Frequency
		PNO: Fast 🖵 IFGain:Low	Trig: Free Run #Atten: 40 dB	Avg Hold:>20	00/200	DET P P P P P	
		IFGain.Low	WRITER TO US		1kr1 2 /0	4 335 0 GHz	Auto Tune
10 dB/div	Ref Offset 1 dB Ref 20.00 dBm			10		48.179 dBm	
Log	1001 20.00 GBII						
							Center Freq
:10.0							2.491750000 GHz
0.00							Start Freq
-10.0]							2.483500000 GHz
-10.0							
-20.0							100 C 100 C
						-22.89 cDm	Stop Freq
-30.0							2.500000000 GHz
-40.0							CF Step 1.650000 MHz
				↓ 1			Auto Man
-50.0 w-witty.	יזרלה איזיה היו האיירים לאינה אינה איניים לאיני	allon to mark the second	ᡙᡒᡧᡎᠬᡀᡀᡡᢣᠯᠧᡡᠯᢑᠢᠬ	Jean Aller and and and	workown	windered of the contraction	
							Freq Offset
-50.0							0 Hz
.70.0							
-70.0							
Start 2.48 #Res BW	3500 GHz	40.400.007	300 kHz	-		2.500000 GHz 00 ms (601 pts)	
#RCS DW							
			300 KH2	2	weep 1.60		7 and 5 6 60
背 start	DO KHZ		500 KHZ	5	weep 1.60		
Agilent Spectr	aglent Spectrum Ana. um Analyzer - Swept SA					12	
Agilent Spectr	🔊 Aglent Spectrum Ana.		SENSE:INT	ALI Avg Type: L	IGN OFF 11 og-Pwr	2 18:54 上午 一月 02, 202 TRACE 12 2 4 5 0	
Agilent Spectr	Palent Spectrum Ana. um Analyzer - Swept SA RF 50 Q AC	00 GHz PN0: Fast 😱		<b>≜</b> ALI	IGN OFF 11 og-Pwr	12	
Agilent Spectr	In Aglent Spectrum Ana. um Analyzer - Swept SA RF 50.2 AC reg 14.5000000	00 GHz	SENSE:INT	ALI Avg Type: L	IGN OFF 11 og-Pwr 1/10	18:54 上午 — Я 02,200 TRACE 1 2 1 4 5 1 TYPE MANAGE DET P P P P P	
Agilent Spectr	Palent Spectrum Ana. um Analyzer - Swept SA RF 50 Q AC	00 GHz PN0: Fast 😱	SENSE:INT	ALI Avg Type: L	IGN OFF 11 og-Pwr 140 Mkr1	18:54 上午 一月 02,203 TRACE 12 3 4 5 TYPE MARKAN	Frequency
Agilent Spectr	Ref Offset 1 dB	00 GHz PN0: Fast 😱	SENSE:INT	ALI Avg Type: L	IGN OFF 11 og-Pwr 140 Mkr1	18:54 1 + - A 02,200 TRACE 12 4 5 TYPE MILLION DET P P P P P 26.482 GHz	Frequency Auto Tune
Agilent Spectr	Ref Offset 1 dB	00 GHz PN0: Fast 😱	SENSE:INT	ALI Avg Type: L	IGN OFF 11 og-Pwr 140 Mkr1	18:54 1 + - A 02,200 TRACE 12 4 5 TYPE MILLION DET P P P P P 26.482 GHz	Frequency Auto Tune Center Freq
Agilent Spectr	Ref Offset 1 dB	00 GHz PN0: Fast 😱	SENSE:INT	ALI Avg Type: L	IGN OFF 11 og-Pwr 140 Mkr1	18:54 1 + - A 02,200 TRACE 12 4 5 TYPE MILLION DET P P P P P 26.482 GHz	Frequency Auto Tune Center Freq
Agilent Spectr	Ref Offset 1 dB	00 GHz PN0: Fast 😱	SENSE:INT	ALI Avg Type: L	IGN OFF 11 og-Pwr 140 Mkr1	18:54 1 + - A 02,200 TRACE 12 4 5 TYPE MILLION DET P P P P P 26.482 GHz	Frequency Auto Tune Center Freq
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Agilent Spectr	Ref Offset 1 dB	00 GHz PN0: Fast 😱	SENSE:INT	ALI Avg Type: L	IGN OFF 11 og-Pwr 140 Mkr1	18:54 1 + - A 02,200 TRACE 12 4 5 TYPE MILLION DET P P P P P 26.482 GHz	Frequency Auto Tune Center Freq 14.50000000 GHz Start Freq
Agilent Spectr 29 RL Center F 10 dB/dlv 10 0 10 0 10 0	Ref Offset 1 dB	00 GHz PN0: Fast 😱	SENSE:INT	ALI Avg Type: L	IGN OFF 11 og-Pwr 140 Mkr1	18:54 1 + - A 02,200 TRACE 12 4 5 TYPE MILLION DET P P P P P 26.482 GHz	Frequency Auto Tune Center Freq 14.50000000 GHz Start Freq
Agilent Spectr 29 RL Center F 10 dB/dlv 10 0 10 0 10 0	Ref Offset 1 dB	00 GHz PN0: Fast 😱	SENSE:INT	ALI Avg Type: L	IGN OFF 11 og-Pwr 140 Mkr1	18:54 1 + - A 02,200 TRACE 12 4 5 TYPE MILLION DET P P P P P 26.482 GHz	Frequency Auto Tune Center Freq 14.50000000 GHz Start Freq 2.500000000 GHz
Agilent Spectr 29 RL Center F 10 dB/div 10 0 10 0 10 0 10 0 10 0	Ref Offset 1 dB	00 GHz PN0: Fast 😱	SENSE:INT	ALI Avg Type: L	IGN OFF 11 og-Pwr 140 Mkr1	1854 14 - 8 02,000 TRACE 12 - 4 5 TYPE HANNE OF PEPEP 26,482 GHz 37.611 dBm	Frequency Auto Tune Center Freq 14.500000000 GHz Start Freq 2.500000000 GHz Stop Freq
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Report No.: ZR/2020/8002704 Page: 49 of 89

#### ALIGN 11:20:31 上午 Frequency Center Freq 2.440000000 GHz Avg Type: Log-Pwr Avg|Hold:>1000/1000 Trig: Free Run PNO: Wide 🖵 IFGain:Low TYPE Atten: 30 dB Auto Tune Mkr1 2.440 000 GHz -3.083 dBm Ref Offset 1 dB Ref 20.00 dBm 10 dB/div **Center Freq** 2 44000000 GHz Start Freq 2 438000000 GHz Stop Freq 2.442000000 GHz CF Step 400.000 kHz Auto Man Freq Offset 0 Hz Stop 2.442000 GHz Sweep 1.000 ms (601 pts) Start 2.438000 GHz #Res BW 100 kHz #VBW 300 kHz 2 10 0 C start D Aglent Spectrum Ana. gilent Spectrum Analyzer - Swept SA 11:20:47 上午 一月 02,203 Frequency Center Freq 79.500 kHz Avg Type: Log-Pwr Avg|Hold:>50/50 Tria: Free Run PNO: Wide 🖵 IFGain:Low #Atten: 26 dB Auto Tune Mkr1 10.175 kHz -49.819 dBm Ref Offset 1 dB Ref 0.00 dBm 10 dB/div **Center Freq** 79.500 kHz Start Freq 9 000 kHz 43.08 tE Stop Freq 150.000 kHz W.P. CF Step 14.100 kHz arty hurst an shall any from the prover prover and and and the prover and the Auto Man Freq Offset 0 Hz Stop 150.00 kHz Sweep 134.8 ms (601 pts) Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz 2 2 10 0 A A O start

4.9.1.5 GFSK 2M \_Middle Channel

ilent Spectru

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Report No.: ZR/2020/8002704 Page: 50 of 89

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Report No.: ZR/2020/8002704 Page: 51 of 89

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Res BW start ilent Spectr RL	100 KHz Aglent Spectru um Analyzer - Swep RF 50 2	pt SA AC 0000 GH: PN	2	SEN	Run	Avg Type	ALIGN OFF 2 Log-Pwr 200/200	11:21:51 <u> </u> TRAC TVI DI	年 — <u>Я</u> 02, 200 <sup>2</sup> 1 2 1 4 5 Г 6 М 7 Р Р Р Р Р Р 7	Fn	equency
Res BW start ilent Spectr RL enter Fi	100 kHz Aqient spectru um Analyzer - Swep RF 30 Q reg 2.491750 Ref Offset 1 db	pt SA AC   00000 GH: PN IFG: B	Z 0: Fast 😱	SEN Trig: Free	Run	Avg Type	ALIGN OFF 2 Log-Pwr 200/200	11:21:51 <u>+</u> TRAC TVI DI .495 57	2	Fn	equency
Res BW start ilent Spectr RL enter Fi	100 kHz Predent spactru um Analyzer - Swep RF 50 req 2.491750	pt SA AC   00000 GH: PN IFG: B	Z 0: Fast 😱	SEN Trig: Free	Run	Avg Type	ALIGN OFF 2 Log-Pwr 200/200	11:21:51 <u>+</u> TRAC TVI DI .495 57	年 — <u>Я</u> 02, 200 <sup>2</sup> 1 2 1 4 5 Г 6 М 7 Р Р Р Р Р Р 7	Fn	equency
Res BW	100 kHz Aqient spectru um Analyzer - Swep RF 30 Q reg 2.491750 Ref Offset 1 db	pt SA AC   00000 GH: PN IFG: B	Z 0: Fast 😱	SEN Trig: Free	Run	Avg Type	ALIGN OFF 2 Log-Pwr 200/200	11:21:51 <u>+</u> TRAC TVI DI .495 57	2	Fr	equency Auto Tu Senter Fr
Res BW	100 kHz Aqient spectru um Analyzer - Swep RF 30 Q reg 2.491750 Ref Offset 1 db	pt SA AC   00000 GH: PN IFG: B	Z 0: Fast 😱	SEN Trig: Free	Run	Avg Type	ALIGN OFF 2 Log-Pwr 200/200	11:21:51 <u>+</u> TRAC TVI DI .495 57	2	Fr	equency Auto Tu Senter Fr
Res BW start lent Spectr RL enter Fi dB/div	100 kHz Aqient spectru um Analyzer - Swep RF 30 Q reg 2.491750 Ref Offset 1 db	pt SA AC   00000 GH: PN IFG: B	Z 0: Fast 😱	SEN Trig: Free	Run	Avg Type	ALIGN OFF 2 Log-Pwr 200/200	11:21:51 <u>+</u> TRAC TVI DI .495 57	2	Fr	equency Auto Tu Senter Fr
Res BW start ilent Spectr RL	100 kHz Aqient spectru um Analyzer - Swep RF 30 Q reg 2.491750 Ref Offset 1 db	pt SA AC   00000 GH: PN IFG: B	Z 0: Fast 😱	SEN Trig: Free	Run	Avg Type	ALIGN OFF 2 Log-Pwr 200/200	11:21:51 <u>+</u> TRAC TVI DI .495 57	2	Fr	equency Auto Tu Center Fr 1750000 G
Res BW start ilent Spectr RL dB/div 9 00 00 00 00 00 00 00 00 00	100 kHz Aqient spectru um Analyzer - Swep RF 30 Q reg 2.491750 Ref Offset 1 db	pt SA AC   00000 GH: PN IFG: B	Z 0: Fast 😱	SEN Trig: Free	Run	Avg Type	ALIGN OFF 2 Log-Pwr 200/200	11:21:51 <u>+</u> TRAC TVI DI .495 57	2	En C 2.491	equency Auto Tu Center Fr 1750000 G Start Fr
Res BW start ilent Spectr RL dB/div 9 00 00 00 00 00 00 00 00 00	100 kHz Aqient spectru um Analyzer - Swep RF 30 Q reg 2.491750 Ref Offset 1 db	pt SA AC   00000 GH: PN IFG: B	Z 0: Fast 😱	SEN Trig: Free	Run	Avg Type	ALIGN OFF 2 Log-Pwr 200/200	11:21:51 <u>+</u> TRAC TVI DI .495 57	2	En C 2.491	equency Auto Tu Center Fr 1750000 G Start Fr
Res BW	100 kHz Aqient spectru um Analyzer - Swep RF 30 Q reg 2.491750 Ref Offset 1 db	pt SA AC   00000 GH: PN IFG: B	Z 0: Fast 😱	SEN Trig: Free	Run	Avg Type	ALIGN OFF 2 Log-Pwr 200/200	11:21:51 <u>+</u> TRAC TVI DI .495 57	2	En C 2.491	equency Auto Tu Center Fr 1750000 G Start Fr 5500000 G
Res BW	100 kHz Aqient spectru um Analyzer - Swep RF 30 Q reg 2.491750 Ref Offset 1 db	pt SA AC   00000 GH: PN IFG: B	Z 0: Fast 😱	SEN Trig: Free	Run	Avg Type	ALIGN OFF 2 Log-Pwr 200/200	11:21:51 <u>+</u> TRAC TVI DI .495 57	<u>+</u> – Я 03, 202 = 12: 14 5 =	En C 2.491 2.483	equency Auto Tu Center Fr 1750000 G Start Fr 5500000 G Stop Fr
Res BW	100 kHz Aqient spectru um Analyzer - Swep RF 30 Q reg 2.491750 Ref Offset 1 db	pt SA AC   00000 GH: PN IFG: B	Z 0: Fast 😱	SEN Trig: Free	Run	Avg Type	ALIGN OFF 2 Log-Pwr 200/200	11:21:51 <u>+</u> TRAC TVI DI .495 57	<u>+</u> – Я 03, 202 = 12: 14 5 =	En C 2.491 2.483	equency Auto Tu Center Fr 1750000 G Start Fr 5500000 G Stop Fr
Res BW	100 kHz Aqient spectru um Analyzer - Swep RF 30 Q reg 2.491750 Ref Offset 1 db	pt SA AC   00000 GH: PN IFG: B	Z 0: Fast 😱	SEN Trig: Free	Run	Avg Type	ALIGN OFF : Leg-Pwr >200/200 Mkr1 2	11:21:51 <u>+</u> TRAC TVI DI .495 57	<u>+</u> – Я 03, 202 = 12, 14 5 =	En C 2.491 2.483 2.500	equency Auto Tu Center Fr 1750000 G Start Fr 5500000 G Stop Fr 5000000 G
Res BW	100 kHz Aqient spectru um Analyzer - Swep RF 30 Q reg 2.491750 Ref Offset 1 db	pt SA AC   00000 GH: PN IFG: B	Z 0: Fast 😱	SEN Trig: Free	Run	Avg Type	ALIGN OFF : Leg-Pwr >200/200 Mkr1 2	11:21:51 <u>+</u> TRAC TVI DI .495 57	<u>+</u> – Я 03, 202 = 12, 14 5 =	En C 2.491 2.483 2.500	equency Auto Tu Center Fr 1750000 G Start Fr 5500000 G Stop Fr 0000000 G CF St
Res BW	100 kHz Aqient spectru um Analyzer - Swep RF 30 Q reg 2.491750 Ref Offset 1 db	pt 5A AC D0000 GH3 PN IFG B Bm	Z O: Fast	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold	ALIGN OFF :: Log-Pwr >200/200 Mkr1 2	11:21:51 L 7840 1970 1495 57/ -48.51	<u>+</u> – Я 03, 202 = 12, 14 5 =	En C 2.491 2.483 2.500	equency Auto Tu Center Fr 1750000 G Start Fr 5500000 G Stop Fr 0000000 G CF St
Res BW	100 kHz Palent spectru am Analyzer - Swey Ref 20.00 dl Ref 20.00 dl	pt 5A AC D0000 GH3 PN IFG B Bm	Z O: Fast	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold	ALIGN OFF :: Log-Pwr >200/200 Mkr1 2	11:21:51 L 7840 1970 1495 57/ -48.51	2 2 2 2 2 2 2 2 2 2 2 2 2 2	En 2.491 2.483 2.500 Auto	equency Auto Tu Center Fr 1750000 G Start Fr 15500000 G Stop Fr 00000000 G CF St .650000 M
Res BW	100 kHz Palent spectru am Analyzer - Swey Ref 20.00 dl Ref 20.00 dl	pt 5A AC D0000 GH3 PN IFG B Bm	Z O: Fast	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold	ALIGN OFF :: Log-Pwr >200/200 Mkr1 2	11:21:51 L 7840 1970 1495 57/ -48.51	2 2 2 2 2 2 2 2 2 2 2 2 2 2	En 2.491 2.483 2.500 Auto	equency Auto Tu Center Fr 1750000 G Start Fr 5500000 G Stop Fr 0000000 G CF St .650000 M M
Res BW	100 kHz Palent spectru am Analyzer - Swey Ref 20.00 dl Ref 20.00 dl	pt 5A AC D0000 GH3 PN IFG B Bm	Z O: Fast	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold	ALIGN OFF :: Log-Pwr >200/200 Mkr1 2	11:21:51 L 7840 1970 1495 57/ -48.51	2 2 2 2 2 2 2 2 2 2 2 2 2 2	En 2.491 2.483 2.500 Auto	equency Auto Tu Center Fr 1750000 G Start Fr 5500000 G Stop Fr 0000000 G CF St .650000 M M
Res BW	100 kHz Palent spectru am Analyzer - Swey Ref 20.00 dl Ref 20.00 dl	pt 5A AC D0000 GH3 PN IFG B Bm	Z O: Fast	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold	ALIGN OFF :: Log-Pwr >200/200 Mkr1 2	11:21:51 L 7840 1970 1495 57/ -48.51	2 2 2 2 2 2 2 2 2 2 2 2 2 2	En 2.491 2.483 2.500 Auto	equency Auto Tu Center Fr 1750000 G Start Fr 5500000 G Stop Fr 0000000 G CF St .650000 M M
Res BW	100 kHz Malert Spectru um Anelyzer - Swey Ref 20.491750 Ref Offset 1 db Ref 20.00 dl	pt 5A AC D0000 GH3 PN IFG B Bm	Z O: Fast	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold	ALIGN OFF :: Log.Pwr >200/200 Mkr1 2	11:21:51 L 1495 57' -48.5	22 00 (Bm	En 2.491 2.483 2.500 Auto	equency Auto Tu Center Fr 1750000 G Start Fr 5500000 G Stop Fr 0000000 G CF St .650000 M M
Res BW	100 kHz Palent spectru am Analyzer - Swey Ref 20.00 dl Ref 20.00 dl	pt 5A AC D0000 GH3 PN IFG B Bm	Z O: Fast ain:Low	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold	SALIGN OFF :: Log-Pwr >200/200 Mkr1 2	11:21:51 L TRAC TYP 2495 577 -48.51	22 00 (Bm	En 2.491 2.483 2.500 Auto	

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Report No.: ZR/2020/8002704 Page: 52 of 89

	11:22:25 上午 一月 02,202	ALIGN OFF	SENSE:INT		
Frequency	TRACE 12145 F TYPE M	Avg Type: Log-Pwr Avg Hold: 10/10	Trig: Free Run #Atten: 40 dB	eq 14.500000000 GHz PN0: Fast IFGain:Low	enter Freq 14.500
Auto Tur	kr1 26.500 GHz -38.229 dBm	MI		Ref Offset 1 dB Ref 20.00 dBm	
Center Fre 14.500000000 GF					10.0
Start Fre 2.500000000 GF					0.0
<b>Stop Fre</b> 26.50000000 GF	-23.08 cBm				0.0
<b>CF Ste</b> 2.400000000 GH <u>Auto</u> Ma	ten da la comi la ciante della	and the second secon	einen durch die bei der auf die bei die der state die bei die b	in y himitani ya kalen ya kalen ya kalen ya ka	
Freq Offs 0 F					0.0
					70.0
	Stop 26.50 GHz 2.294 s (8001 pts)	Sweep	300 kHz		tart 2.50 GHz Res BW 100 kHz

#### 4.9.1.6 GFSK 2M \_Highest Channel



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Report No.: ZR/2020/8002704 Page: 53 of 89

RL	rum Analyzer - Swept SA RF 50.2∆DC req 79.500 kHz	PNO: Wide 🕞	SENSE:INT Trig: Free Run #Atten: 26 dB	Avg Type: Log-Pwr Avg Hold:>50/50	11:24:07 上午 一月 02, 20: TRACE 1 2 1 4 5 F TYPE M 444444 DET P P P P P P	Frequency
dB/div	Ref Offset 1 dB Ref 0.00 dBm	IFGain:Low	WALLEN, 20 GE		Mkr1 9.000 kHz -50.580 dBm	Auto Tu
						Center Fr 79.500 k
0.0 0.0						<b>Start Fr</b> 9.000 k
1.0					-42.98 cĐm	<b>Stop Fr</b> 150.000 k
10 Tu 10	Uhry Haber Marker and a					CF St 14.100 k Auto M
3.0		un and an and	and an	Jos Curran Ja	~	Freq Offs 0
0.0						
art 9.00		#VBM	/ 3.0 kHz	Sween	Stop 150.00 kHz 134 8 ms (601 pts)	
art 9.00 Res BW start RL	D kHz 1.0 kHz Tindent spectrum Ana read analyzer - Swept SA BF 502 (A DOC N Freq 15.075000 N	1Hz	/ 3.0 kHz	ALIGN OFF	134.8 ms (601 pts) 2 11:24:22 上午 一月 02,203	frequency
art 9.00 Res BW start Ient Spect RL enter F	1.0 kHz Addent Spectrum Ana rum Analyzer - Swept SA RF 302 ADC req 15.075000 N Ref Offset 1 dB		SENSE:INT	ALIGN OFF	134.8 ms (601 pts) ខ	Frequency
art 9.00 Res BW Start Ient Spect RL Sonter F	1.0 kHz Pinglent Spectrum Ana. rum Analyzer - Swept SA RF 50 2 (A DC) Freq 15.075000 N	₩Z PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts) 11:24:29 上キ - 月 02,20: TRACE 12:345 TRACE 12:345 TRACE 150 KHz	Frequency Auto Tu Center Fr
art 9.00 Res BW start lent Speci RL anter F	1.0 kHz Addent Spectrum Ana rum Analyzer - Swept SA RF 302 ADC req 15.075000 N Ref Offset 1 dB	₩Z PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts) 11:24:29 上キ - 月 02,20: TRACE 12:345 TRACE 12:345 TRACE 150 KHz	Frequency Auto Tu Center Fr 15.075000 M Start Fr
art 9.00 Res BW start Inter F dB/dIv g	1.0 kHz Addent Spectrum Ana rum Analyzer - Swept SA RF 302 ADC req 15.075000 N Ref Offset 1 dB	₩Z PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts) 11:24:29 上キ - 月 02,20: TRACE 12:345 TRACE 12:345 TRACE 150 KHz	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr
art 9.00 Res BW start lent Spect enter F	1.0 kHz Addent Spectrum Ana rum Analyzer - Swept SA RF 302 ADC req 15.075000 N Ref Offset 1 dB	₩Z PNO: Fast	SENSE:INT	ALIGN OFF	134.8 ms (601 pts) 11:24:29 上キ - 月 02,20: TRACE 12:345 TRACE 12:345 TRACE 150 KHz	
art 9.00 Res BW	1.0 kHz Tiddent Spectrum Ana. Ref 20.00 dBm Ref 20.00 dBm	• PNO: Fast IFGain:Low	SENSE:INT	Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Hold>50/60	134.8 ms (601 pts) 2 11:24:20 ±+ − A 02,205 TRACE 02:145 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M Auto Freq Offs
tart 9.00 Res BW	1.0 kHz Tiddent Spectrum Ana. Ref 20.00 dBm Ref 20.00 dBm	• PNO: Fast IFGain:Low	SENSE:INT	ALIGN OFF	134.8 ms (601 pts) 2 11:24:20 ±+ − A 02,205 TRACE 02:145 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frequency Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M

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Report No.: ZR/2020/8002704 Page: 54 of 89

	um Analyzer - Swep RF 50 Q			000	ISE:INT		ALIGN OFF	14-04-51 F	午一月 02,200	
	req 1.165000	0000 GH	Z IO: Fast C				e: Log-Pwr	TRAC TY		Frequency
		IFG	iain:Low	#Atten: 40						Auto Ti
	Ref Offset 1 dE Ref 20.00 dE	3					Mkr		39 GHz 74 dBm	Auton
o dB/div og	Rei 20.00 di	5111		1				+0.0		1
10.0										Center F
10.0										1.165000000
										Start F 30.000000 I
0.0										
0.0	-								-22.96 cDm	Stop F
										2.300000000
0.0										R
0.0:									<u>1</u>	CF S 227.000000 I
					v 102 1		lana Vissanaa	alari wakie u		Auto
		telet og til det	<mark>ut iliaten</mark> i	<b>Velandia d</b>				A see hit is a set	and other statistics	k
0.0										Freq Off
										(
0.0										
				b						
tart 30 M Res BW			-#\//B\/	2000 LU-			o	2 Stop 17.1 ms	.300 GHz	
	1.0.0.14111		#VDV	V 300 kHz			Sweep Z	17.11115	8001 pts)	
🛃 start gilent Spectro	🗊 Aglent Spectru um Analyzer - Swep	IL SA	#484						12	17 <b>8948</b> 90
<b>ilent Spectru</b> RL	🔊 Aglent Spectru	∩ SA ∧⊂   0000 GH	z		ISE:INT	Avg Type	ALIGN OFF : Log-Pwr >200/200	11:25:03 <u> </u> TRAC TY	年一月 02,200 <sup>1</sup> 年 12:3 4 5 <sup>1</sup> 年 M <del>MMMM</del>	Frequency
ilent Spectru RL	Maglent Spectru um Analyzer - Swep RF 50 Q	n SA A⊂   0000 GH PN			ISE:INT	Avg Type	ALIGN OFF 2: Log-Pwr >200/200	11:25:03 <u> </u> TRAK TY D	2 午 一 月 02,200 年 1 2 1 4 5 円 円 PPPPP 町 PPPPP	Frequency
start ilent Spectru RL enter Fr ) dB/dlv	Maglent Spectru um Analyzer - Swep RF 50 Q	AC   DOOO GH PN IFG	Z IO: Fast	SEN Trig: Free	ISE:INT	Avg Type	ALIGN OFF 2: Log-Pwr >200/200	11:25:09 <u>1</u> TRAM TY D <b>r1 2.33</b>	年一月 02,200 <sup>1</sup> 年 12:3 4 5 <sup>1</sup> 年 M <del>MMMM</del>	Frequency
start ilent Spectru RL enter Fr ) dB/dlv	RF 0ffset 1 dE	AC   DOOO GH PN IFG	Z IO: Fast	SEN Trig: Free	ISE:INT	Avg Type	ALIGN OFF 2: Log-Pwr >200/200	11:25:09 <u>1</u> TRAM TY D <b>r1 2.33</b>	17 17 — Л 02,200 17 — Л 02,2	Frequency Auto Ti
start RL enter Fr	RF 0ffset 1 dE	AC   DOOO GH PN IFG	Z IO: Fast	SEN Trig: Free	ISE:INT	Avg Type	ALIGN OFF 2: Log-Pwr >200/200	11:25:09 <u>1</u> TRAM TY D <b>r1 2.33</b>	17 17 — Л 02,200 17 — Л 02,2	Frequency
ilent Spectru RL enter Fr 0 dB/div	RF 0ffset 1 dE	AC   DOOO GH PN IFG	Z IO: Fast	SEN Trig: Free	ISE:INT	Avg Type	ALIGN OFF 2: Log-Pwr >200/200	11:25:09 <u>1</u> TRAM TY D <b>r1 2.33</b>	17 17 — Л 02,200 17 — Л 02,2	Frequency Auto Tr Center F
ilent Spectru RL enter Fr 0 dB/div	RF 0ffset 1 dE	AC   AC   DOOO GH PN IFG	Z IO: Fast	SEN Trig: Free	ISE:INT	Avg Type	ALIGN OFF 2: Log-Pwr >200/200	11:25:09 <u>1</u> TRAM TY D <b>r1 2.33</b>	17 17 — Л 02,200 17 — Л 02,200	Frequency Auto Tr Center F
ilent Spectru RL enter Fr	RF 0ffset 1 dE	AC   AC   DOOO GH PN IFG	Z IO: Fast	SEN Trig: Free	ISE:INT	Avg Type	ALIGN OFF 2: Log-Pwr >200/200	11:25:09 <u>1</u> TRAM TY D <b>r1 2.33</b>	17 17 — Л 02,200 17 — Л 02,200	Frequency Auto Tr Center F 2.350000000
Start Start RL enter Fr dB/div 9 0 0 0 0 0 0 0 0 0 0 0 0 0	RF 0ffset 1 dE	AC   AC   DOOO GH PN IFG	Z IO: Fast	SEN Trig: Free	ISE:INT	Avg Type	ALIGN OFF 2: Log-Pwr >200/200	11:25:09 <u>1</u> TRAM TY D <b>r1 2.33</b>	17 17 — Л 02,200 17 — Л 02,200	Frequency Auto Tr Center F 2.35000000 0 Start F
Start Start RL enter Fr dB/div 9 0 0 0 0 0 0 0 0 0 0 0 0 0	RF 0ffset 1 dE	AC   AC   DOOO GH PN IFG	Z IO: Fast	SEN Trig: Free	ISE:INT	Avg Type	ALIGN OFF 2: Log-Pwr >200/200	11:25:09 <u>1</u> TRAM TY D <b>r1 2.33</b>	17 17 — Л 02,200 17 — Л 02,200	Frequency Auto Tr Center F 2.350000000 Start F 2.300000000
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is start RC enter Fr od B/div od 0.0 0.0	RF 0ffset 1 dE	AC   AC   DOOO GH PN IFG	Z IO: Fast	SEN Trig: Free	ISE:INT	Avg Type	ALIGN OFF 2: Log-Pwr >200/200	11:25:09 <u>1</u> TRAM TY D <b>r1 2.33</b>	<u>+</u> − <u>Я</u> 02,200 F 112 1 4 5 с F PPPPP <b>3 9 GHz</b> 62 dBm	Frequency Auto Tr Center F 2.350000000 ( Start F 2.300000000 ( Stop F 2.400000000 (
Start RC enter Fr od B/div od 0.0 0.0 0.0 0.0	RF 0ffset 1 dE	AC   AC   DOOO GH PN IFG	Z IO: Fast	SEN Trig: Free	ISE:INT	Avg Type	ALIGN OFF 2: Log-Pwr >200/200	11:25:09 <u>1</u> TRAM TY D <b>r1 2.33</b>	<u>+</u> − <u>Я</u> 02,200 F 112 1 4 5 с F PPPPP <b>3 9 GHz</b> 62 dBm	Frequency Auto Tr Center F 2.350000000 Start F 2.300000000 Stop F 2.400000000
start RC enter Fr ddB/div og g co co co co co co co co co co co co co	Ref Offset 1 dE Ref 20.00 dE	15A AC PH PH IFG 3 3 3 3 3 3 3 3 3 3 3 3 3	Z IO: Fast isaln:Low	Trig: Free #Atten: 40	ISE:INT	Avg Typ Avg Hold	ALIGN OFF a: Log-Pwr > 200/200 Mk	11125:03 <u>-</u> TRAI TV <b>r1 2.33</b> : -48.2	+ - Я 02,200	Frequency Auto Tr Center F 2.350000000 Start F 2.300000000 Stop F 2.400000000
start ilent Spectra RC enter Fr d dB/div og og og og og og og og og og	RF 0ffset 1 dE	15A AC PH PH IFG 3 3 3 3 3 3 3 3 3 3 3 3 3	Z IO: Fast isaln:Low	Trig: Free #Atten: 40	ISE:INT	Avg Typ Avg Hold	ALIGN OFF a: Log-Pwr > 200/200 Mk	11125:03 <u>-</u> TRAI TV <b>r1 2.33</b> : -48.2	+ - Я 02,200	Frequency Auto Tr Center F 2.350000000 Start F 2.3000000000 Stop F 2.4000000000 CF S 10.000000
start RC enter Fr ddB/div og g co co co co co co co co co co co co co	Ref Offset 1 dE Ref 20.00 dE	15A AC PH PH IFG 3 3 3 3 3 3 3 3 3 3 3 3 3	Z IO: Fast isaln:Low	Trig: Free #Atten: 40	ISE:INT	Avg Typ Avg Hold	ALIGN OFF a: Log-Pwr > 200/200 Mk	11125:03 <u>-</u> TRAI TV <b>r1 2.33</b> : -48.2	+ - Я 02,200	Frequency Auto Tr Center F 2.350000000 Start F 2.300000000 Stop F 2.400000000
start ilent Spectra RC enter Fr d dB/div og og og og og og og og og og	Ref Offset 1 dE Ref 20.00 dE	15A AC PH PH IFG 3 3 3 3 3 3 3 3 3 3 3 3 3	Z IO: Fast isaln:Low	Trig: Free #Atten: 40	ISE:INT	Avg Typ Avg Hold	ALIGN OFF a: Log-Pwr > 200/200 Mk	11125:03 <u>-</u> TRAI TV <b>r1 2.33</b> : -48.2	+ - Я 02,200	Frequency Auto Tr Center F 2.350000000 Start F 2.300000000 Stop F 2.400000000 CF S 10.000000 Auto
	Ref Offset 1 dE Ref 20.00 dE	15А	Z IO: Fast isaln:Low	Trig: Free #Atten: 40	ISE:INT	Avg Typ Avg Hold	ALIGN OFF a: Log-Pwr > 200/200 Mk	11125:03 <u>-</u> TRAI TV <b>r1 2.33</b> : -48.2	+ - Я 02,200	Frequency Auto Tr Center F 2.350000000 Start F 2.300000000 Stop F 2.400000000 CF S 10.000000 Auto
Start	Ref Offset 1 dE Ref 20.00 dE	15А	Z IO: Fast isain:Low	Trig: Free #Atten: 40	ISE:INT	Avg Type Avg Hold	ALIGN OFF : Log-Pwr > 200/200 M k	11:25:03 - TRAI TV -12:33: -48:2	+ - Я 02, 200 F   2   4 5 6 F	Frequency Auto Tr Center F 2.350000000 Start F 2.300000000 Stop F 2.400000000 CF S 10.000000 Auto

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Report No.: ZR/2020/8002704 Page: 55 of 89

RL	rum Analyzer - Swept SA RF 50 Q AC		SENSE:INT	ALIGN	N OFF 11:25:12	上午 一月 02,202	Frequency
enter F	req 2.491750000	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 40 dB	Avg Type: Log Avg Hold:>200	/200	上午 一月 02,200 ACE 12 14 5 F TYPE M W W W W W DET P P P P P P	
	Ref Offset 1 dB	in Sumeon		Mk	(r1 2.494 5)	00 0 GHz	Auto Tu
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start Ient Spect	🗊 Aglent spactrum Ana rum Analyzer - Swept SA	00 GHz				2	
start lent Spects RL	P Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Q AC		SENSE:INT		ч оғғ  11:25:46 1-Pwr те 0	日 上午 一月 02,200 ACE 12 3 4 5 TYPE M WWWW DET P P P P P P	Frequency
start RL enter F	P Aglent Spectrum Ana rum Analyzer - Swept SA RF 50 Q AC	)0 GHz PNO: Fast 🖵	SENSE:INT		101∓  11:25:45 1-Pwr ™ 0 Mkr1 26.	2	Frequency
start Itent Spectr RL enter F	Ref Offset 1 dB	)0 GHz PNO: Fast 🖵	SENSE:INT		101∓  11:25:45 1-Pwr ™ 0 Mkr1 26.	12 14 - A 02,200 14 - A 00,200 14	Frequency Auto Tu
start RL enter F	Ref Offset 1 dB	)0 GHz PNO: Fast 🖵	SENSE:INT		101∓  11:25:45 1-Pwr ™ 0 Mkr1 26.	12 14 - A 02,200 14 - A 00,200 14	Frequency Auto Tu Center Fr
dB/dIV	Ref Offset 1 dB	)0 GHz PNO: Fast 🖵	SENSE:INT		101∓  11:25:45 1-Pwr ™ 0 Mkr1 26.	12 14 - A 02,200 14 - A 00,200 14	Frequency Auto Tu Center Fr
start RL enter F dB/div	Ref Offset 1 dB	)0 GHz PNO: Fast 🖵	SENSE:INT		101∓  11:25:45 1-Pwr ™ 0 Mkr1 26.	12 14 - A 02,200 14 - A 00,200 14	Frequency Auto Tu Center Fr 14.50000000 G
dB/dIv	Ref Offset 1 dB	)0 GHz PNO: Fast 🖵	SENSE:INT		101∓  11:25:45 1-Pwr ™ 0 Mkr1 26.	12 14 - A 02,200 14 - A 00,200 14	Frequency Auto Tu Center Fr 14.50000000 G Start Fr
dB/dIv	Ref Offset 1 dB	)0 GHz PNO: Fast 🖵	SENSE:INT		101∓  11:25:45 1-Pwr ™ 0 Mkr1 26.	12 14 - A 02,200 14 - A 00,200 14	
Start St	Ref Offset 1 dB	)0 GHz PNO: Fast 🖵	SENSE:INT		101∓  11:25:45 1-Pwr ™ 0 Mkr1 26.	12 14 - A 02,200 14 - A 00,200 14	Frequency Auto Tu Center Fr 14.50000000 G Start Fr
Start	Ref Offset 1 dB	)0 GHz PNO: Fast 🖵	SENSE:INT		101∓  11:25:45 1-Pwr ™ 0 Mkr1 26.	2 <u>ACE</u> 12 3 5 1 <u>YEE</u> MAXAMUM DET PPPPPP <b>482 GHz</b> 003 dBm	Frequency Auto Tu Center Fr 14.500000000 G Start Fr 2.500000000 G Stop Fr
Start St	Ref Offset 1 dB	)0 GHz PNO: Fast 🖵	SENSE:INT		101∓  11:25:45 1-Pwr ™ 0 Mkr1 26.	2 <u>ACE</u> 12 3 5 1 <u>YEE</u> MAXAMUM DET PPPPPP <b>482 GHz</b> 003 dBm	Frequency Auto Tu Center Fr 14.500000000 G Start Fr 2.500000000 G
start start RL dB/dIv g a a a a a a a a a a a a a	Ref Offset 1 dB	)0 GHz PNO: Fast 🖵	SENSE.INT	Avg Type: Log Avg Hold: 10/10	NOFF [11:25:46 ]-Pwr 75 0 Mkr1 26. -37.	22 90 (Ph	Frequency Auto Tu Center Fr 14.500000000 G Start Fr 2.500000000 G Stop Fr 26.500000000 G
start lient Spect RL dB/div s s a a a a a a a a a a a a a	Tinglent Spectrum Ana	00 GHz PN0: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Log Avg Hold: 10/10	NOFF [11:25:46 ]-Pwr 75 0 Mkr1 26. -37.	22 90 (Ph	Frequency Auto Tu Center Fr 14.500000000 G Start Fr 2.500000000 G Stop Fr 26.500000000 G
Start St	Tinglent Spectrum Ana	)0 GHz PNO: Fast 🖵	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Log Avg Hold: 10/10	NOFF [11:25:46 ]-Pwr 75 0 Mkr1 26. -37.	22 90 (Ph	Frequency Auto Tu Center Fr 14.50000000 G Start Fr 2.50000000 G Stop Fr 26.50000000 G
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start lent Spect RL   enter F dB/dlv g a.a a.a a.a a.a a.a a.a a.a	Tinglent Spectrum Ana	00 GHz PN0: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Log Avg Hold: 10/10	NOFF [11:25:46 ]-Pwr 75 0 Mkr1 26. -37.	22 90 (Ph	Frequency Auto Tu Center Fr 14.500000000 G Start Fr 2.500000000 G Stop Fr 26.50000000 G Auto M Freq Offs
dB/div dB/div	Tinglent Spectrum Ana	00 GHz PN0: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Log Avg Hold: 10/10	NOFF [11:25:46 ]-Pwr 75 0 Mkr1 26. -37.	22 90 (Ph	Frequency Auto Tu Center Fr 14.500000000 G Start Fr 2.500000000 G Stop Fr 26.50000000 G CF Sto 2.40000000 G Auto M
start	Tinglent Spectrum Ana	00 GHz PN0: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Log Avg Hold: 10/10	NOFF [11:25:46 ]-Pwr 75 0 Mkr1 26. -37.	22 90 (Ph	Frequency Auto Tu Center Fr 14.500000000 G Start Fr 2.500000000 G Stop Fr 26.50000000 G Auto M Freq Offs
dB/div g dB/div g and and and dB/div g dB/div dB/div dB/div dB/div dD dD dD dD dD dD dD dD dD dD	Ref Offset 1 dB Ref 20.00 dBm	DO CHZ PRO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	Avg Type: Log Avg Hold: 10/10	Moff [11:25:40 	2 ±+	Frequency Auto Tu Center Fr 14.500000000 G Start Fr 2.500000000 G Stop Fr 26.500000000 G CF St 2.40000000 G Auto M Freq Offs

Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.





Report No.: ZR/2020/8002704 Page: 56 of 89

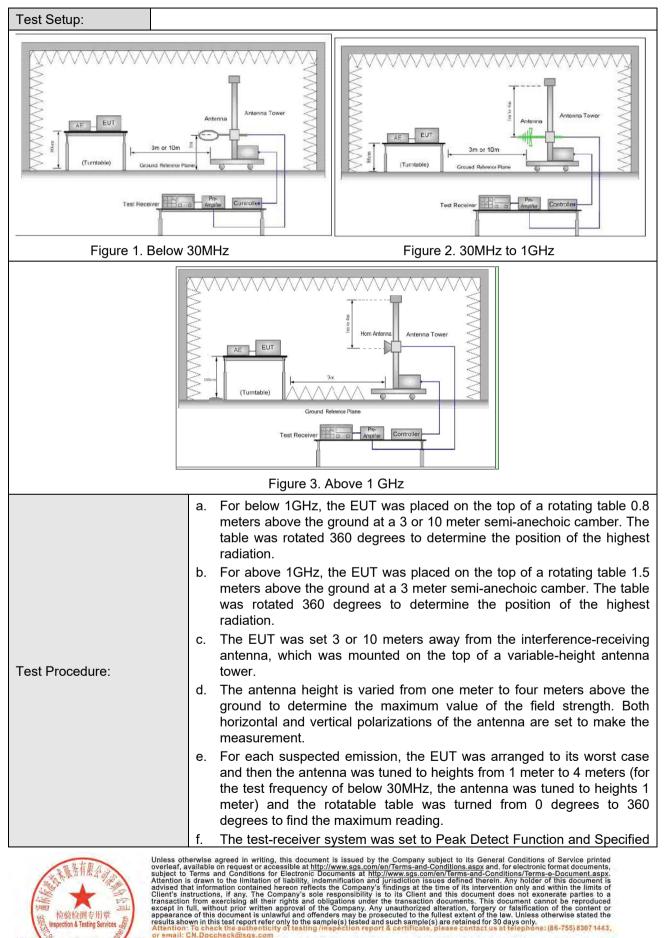
Test Requirement:	17 CER Part 15C Sactio	n 15 200 and 15 2	205							
•	47 CFR Part 15C Section 15.209 and 15.205 ANSI C63.10 :2013 Section 11.12									
Test Method:	ANSI C63.10 :2013 Section 11.12 Measurement Distance: 3m (Semi-Anechoic Chamber)									
Test Site:										
	Frequency									
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak					
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average					
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak					
Dessiver Setup	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak					
Receiver Setup:	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average					
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak					
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak					
		Peak	1MHz	3MHz	Peak					
	Above 1GHz	Peak	1MHz	10Hz	Average					
	Frequency	Field strength	Limit	Remark	Measurement					
		(microvolt/meter)	(dBuV/m)		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					
Limit:	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					
	Remark: 15.35(b), Unlest emissions is 20dB above to the equipment under radiated by the device.	e the maximum pe	ermitted ave	rage emission	limit applicable					

#### 4.10 Radiated Spurious Emission



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Report No.: ZR/2020/8002704 57 of 89 Page:



No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

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中国·深圳·科技园中区M-10栋一号厂房

sgs.china@sgs.com

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SGS-CSTC Standards Technical Services Co., Ltd.Shenzhen

Report No.: ZR/2020/8002704 Page: 58 of 89

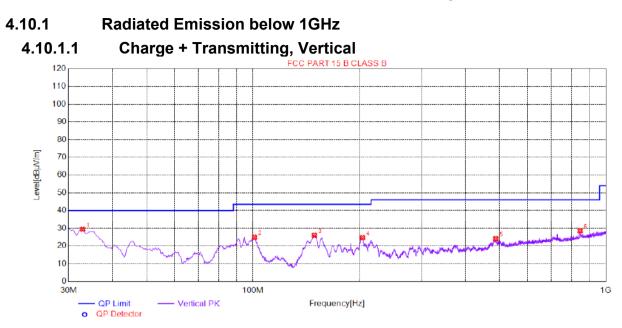
	Bandwidth with Maximum Hold Mode.
	g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	h. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
	Transmitting with GFSK modulation.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode,
Tinai restivide.	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 5.10 for details.
Test Results:	Pass



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Report No.: ZR/2020/8002704 Page: 59 of 89

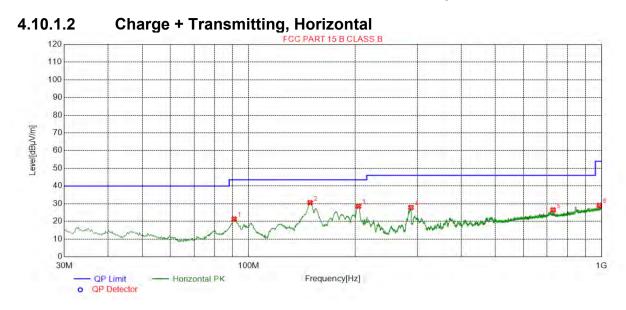


Suspe	Suspected List												
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity					
1	32.9106	29.48	-30.01	40.00	10.52	100	40	Vertical					
2	101.0182	24.91	-32.00	43.50	18.59	100	14	Vertical					
3	149.3339	26.02	-35.11	43.50	17.48	100	334	Vertical					
4	204.2468	24.72	-31.10	43.50	18.78	100	285	Vertical					
5	487.5435	24.13	-23.63	46.00	21.87	100	343	Vertical					
6	844.9630	28.48	-16.97	46.00	17.52	200	292	Vertical					



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Report No.: ZR/2020/8002704 Page: 60 of 89



Suspe	Suspected List												
О.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity					
1	90.9282	21.31	-33.56	43.50	22.19	200	22	Horizontal					
2	149.3339	30.59	-35.11	43.50	12.91	200	251	Horizontal					
3	204.6349	28.52	-31.09	43.50	14.98	100	257	Horizontal					
4	288.2657	27.84	-28.71	46.00	18.16	100	48	Horizontal					
5	728.5397	26.45	-18.84	46.00	19.55	100	336	Horizontal					
6	985.0590	29.01	-15.00	54.00	24.99	100	48	Horizontal					



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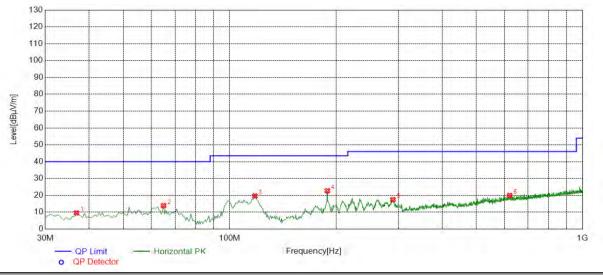
Report No.: ZR/2020/8002704 Page: 61 of 89

### 4.11 Spot Check Radiated Spurious Emission



4.11.1.1

BLE (worse 1M)



Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	36.7934	9.59	-32.19	40.00	30.41	150	248	Horizontal				
2	64.9375	13.95	-32.91	40.00	26.05	150	1	Horizontal				
3	117.828	19.69	-32.92	43.50	23.81	150	107	Horizontal				
4	189.159	22.77	-31.97	43.50	20.73	150	273	Horizontal				
5	290.090	17.51	-28.14	46.00	28.49	150	101	Horizontal				
6	621.510	19.97	-19.78	46.00	26.03	150	14	Horizontal				

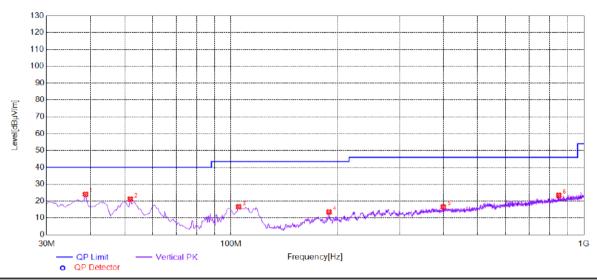
Final Data List



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Report No.: ZR/2020/8002704 Page: 62 of 89



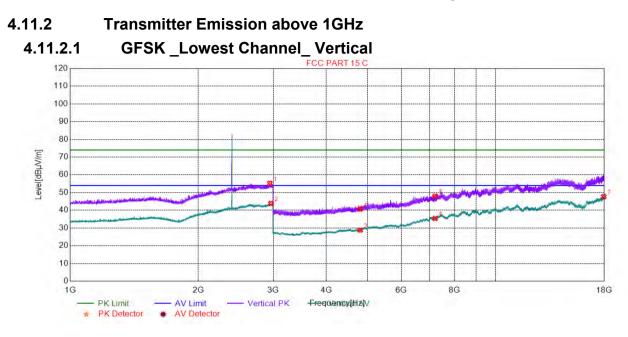
Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	38.7344	24.03	-31.57	40.00	15.97	150	15	Vertical			
2	51.8359	21.21	-30.46	40.00	18.79	150	309	Vertical			
3	105.212	16.59	-31.69	43.50	26.91	150	75	Vertical			
4	189.644	13.55	-31.92	43.50	29.95	150	113	Vertical			
5	399.754	16.55	-24.96	46.00	29.45	150	81	Vertical			
6	849.089	23.40	-16.06	46.00	22.60	150	41	Vertical			
Eliza I D	-4-1:-4										

**Final Data List** 



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Report No.: ZR/2020/8002704 Page: 63 of 89



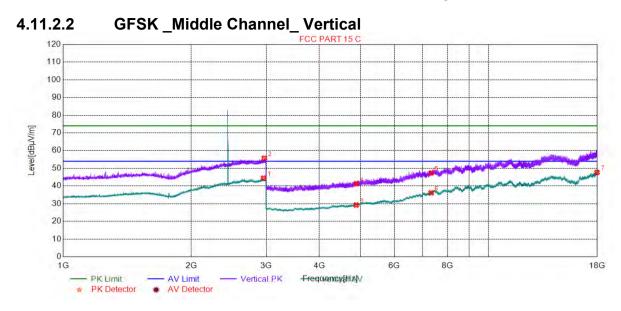
Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2946.4866	55.26	9.64	74.00	18.74	150	128	Vertical				
2	2962.9907	43.85	9.62	54.00	10.15	150	237	Vertical				
3	4804.0000	28.81	-18.30	54.00	25.19	150	0	Vertical				
4	4804.0000	40.70	-18.30	74.00	33.30	150	96	Vertical				
5	7206.0000	47.97	-10.09	74.00	26.03	150	167	Vertical				
6	7206.0000	35.37	-10.09	54.00	18.63	150	18	Vertical				
7	17946.0973	47.70	1.70	54.00	6.30	150	267	Vertical				



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Report No.: ZR/2020/8002704 Page: 64 of 89

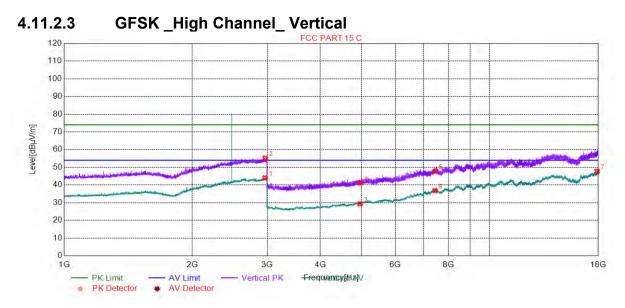


Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2956.4891	44.44	9.65	54.00	9.56	150	345	Vertical			
2	2970.4926	55.75	9.59	74.00	18.25	150	99	Vertical			
3	4882.0000	29.23	-17.96	54.00	24.77	150	314	Vertical			
4	4882.0000	41.25	-17.96	74.00	32.75	150	39	Vertical			
5	7323.0000	47.36	-9.71	74.00	26.64	150	359	Vertical			
6	7323.0000	36.11	-9.71	54.00	17.89	150	217	Vertical			
7	17965.3483	47.68	1.71	54.00	6.32	150	359	Vertical			



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Report No.: ZR/2020/8002704 Page: 65 of 89



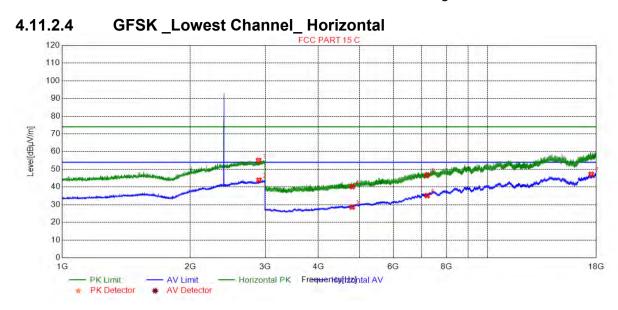
Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2965.4914	43.99	9.61	54.00	10.01	150	194	Vertical			
2	2966.4916	55.12	9.60	74.00	18.88	150	303	Vertical			
3	4960.0000	29.38	-17.47	54.00	24.62	150	151	Vertical			
4	4960.0000	41.23	-17.47	74.00	32.77	150	69	Vertical			
5	7440.0000	47.68	-9.35	74.00	26.32	150	266	Vertical			
6	7440.0000	36.82	-9.35	54.00	17.18	150	166	Vertical			
7	17875.1438	47.74	1.36	54.00	6.26	150	116	Vertical			



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Report No.: ZR/2020/8002704 Page: 66 of 89

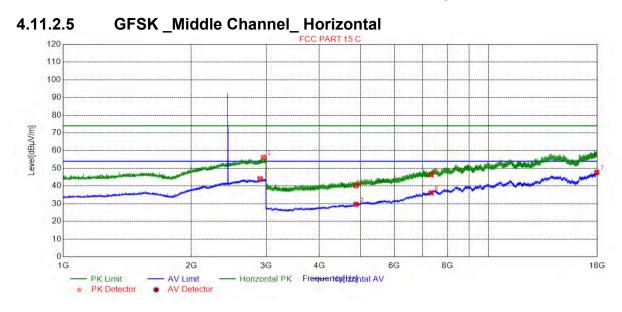


Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2894.9737	55.04	9.15	74.00	18.96	150	100	Horizontal			
2	2900.9752	43.88	9.15	54.00	10.12	150	128	Horizontal			
3	4804.0000	28.67	-18.30	54.00	25.33	150	18	Horizontal			
4	4804.0000	40.16	-18.30	74.00	33.84	150	342	Horizontal			
5	7206.0000	46.75	-10.09	74.00	27.25	150	168	Horizontal			
6	7206.0000	35.13	-10.09	54.00	18.87	150	118	Horizontal			
7	17511.0256	47.16	1.96	54.00	6.84	150	68	Horizontal			



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Report No.: ZR/2020/8002704 Page: 67 of 89

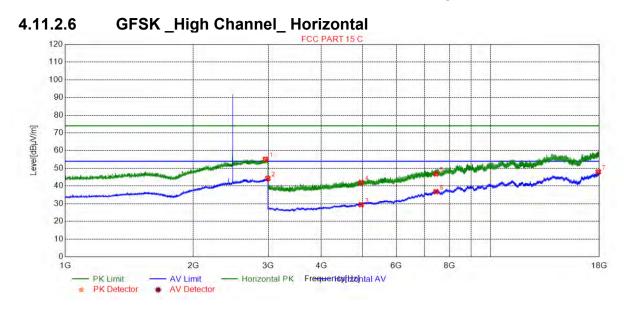


Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2903.9760	44.02	9.18	54.00	9.98	150	28	Horizontal			
2	2958.4896	56.17	9.64	74.00	17.83	150	220	Horizontal			
3	4882.0000	29.61	-17.96	54.00	24.39	150	342	Horizontal			
4	4882.0000	40.21	-17.96	74.00	33.79	150	126	Horizontal			
5	7323.0000	46.38	-9.71	74.00	27.62	150	318	Horizontal			
6	7323.0000	36.15	-9.71	54.00	17.85	150	68	Horizontal			
7	17941.6971	47.68	1.70	54.00	6.32	150	318	Horizontal			



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Report No.: ZR/2020/8002704 Page: 68 of 89



Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2956.4891	55.16	9.65	74.00	18.84	150	234	Horizontal				
2	2993.9985	44.26	9.48	54.00	9.74	150	0	Horizontal				
3	4960.0000	29.43	-17.47	54.00	24.57	150	288	Horizontal				
4	4960.0000	41.88	-17.47	74.00	32.12	150	152	Horizontal				
5	7440.0000	46.82	-9.35	74.00	27.18	150	217	Horizontal				
6	7440.0000	36.81	-9.35	54.00	17.19	150	267	Horizontal				
7	17900.4450	47.98	1.69	54.00	6.02	150	267	Horizontal				

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

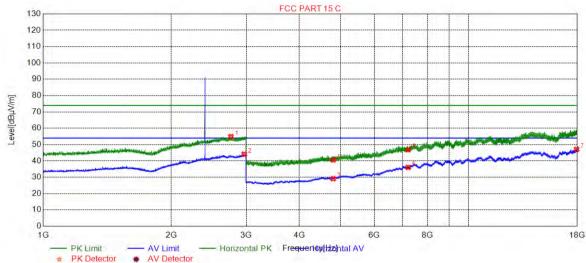
- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.



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Report No.: ZR/2020/8002704 Page: 69 of 89

#### Spot Check Transmitter Emission above 1GHz 4.12



**BLE 1M Channel 0** 

#### **Suspected List** Freq. Level Factor Limit Margin Height Angle NO. Polarity [dBµV/m] [dB] [dBµV/m] [dB][°] [MHz] [cm] 2762.44 54.91 74.00 19.09 149 Horizontal 1 9.08 150 2967.99 9.85 328 2 44.15 9.60 54.00 150 Horizontal 4804.00 150 3 29.15 -18.30 54.00 24.85 Horizontal 0 4804.00 4 40.63 -18.30 150 0 74.00 33.37 Horizontal 7206.00 5 46.87 -10.09 74.00 27.13 150 219 Horizontal 7206.00 6 36.08 -10.09 54.00 17.92 150 169 Horizontal 17930.6 47.10 0.70 150 270 7 54.00 6.90 Horizontal

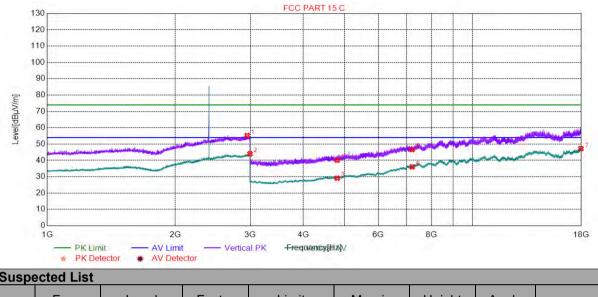
**Final Data List** 

4.12.1.1



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> Report No.: ZR/2020/8002704 Page: 70 of 89



4.12.1.2	BIF 1M	Channel 0
7.16.1.6		

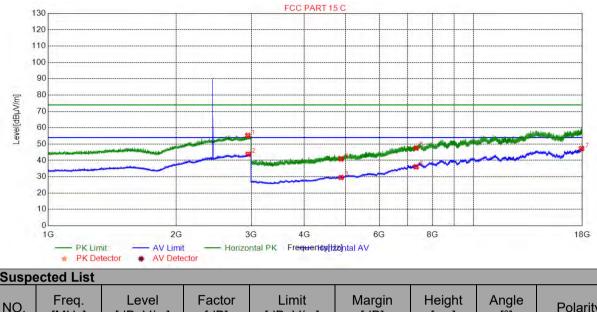
Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2950.98	55.28	9.68	74.00	18.72	150	142	Vertical		
2	2996.49	44.08	9.47	54.00	9.92	150	18	Vertical		
3	4804.00	29.13	-18.30	54.00	24.87	150	123	Vertical		
4	4804.00	40.14	-18.30	74.00	33.86	150	342	Vertical		
5	7206.00	46.67	-10.09	74.00	27.33	150	68	Vertical		
6	7206.00	36.08	-10.09	54.00	17.92	150	118	Vertical		
7	17958.7	47.26	0.71	54.00	6.74	150	270	Vertical		
-	te liet									

**Final Data List** 



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> Report No.: ZR/2020/8002704 Page: 71 of 89



4.12.1.3	RIF 1M	Channel 19
4.12.1.3		

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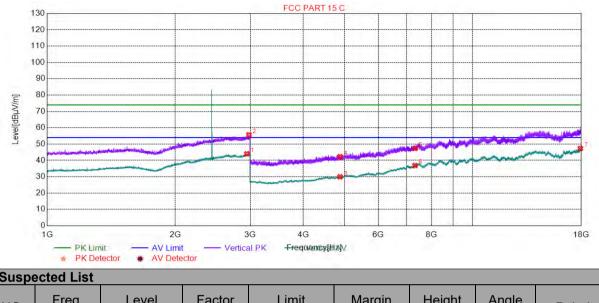
	FR Delector * AV Delector								
Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2946.48	55.25	9.64	74.00	18.75	150	68	Horizontal	
2	2953.98	43.80	9.66	54.00	10.20	150	164	Horizontal	
3	4880.00	29.56	-17.97	54.00	24.44	150	259	Horizontal	
4	4880.00	40.97	-17.97	74.00	33.03	150	287	Horizontal	
5	7320.00	47.57	-9.72	74.00	26.43	150	219	Horizontal	
6	7320.00	36.13	-9.72	54.00	17.87	150	269	Horizontal	
7	17926.8	47.26	0.70	54.00	6.74	150	18	Horizontal	
line I De									

**Final Data List** 



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> Report No.: ZR/2020/8002704 Page: 72 of 89



#### 4.12.1.4 BLE 1M\_Channel 19

S

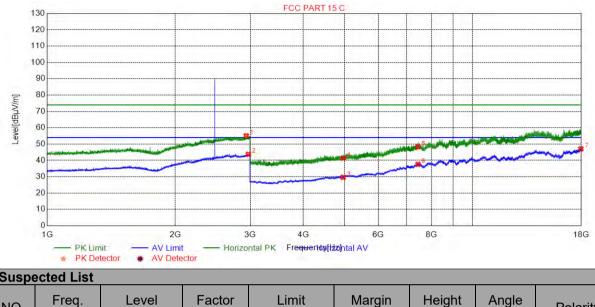
Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2944.98	44.06	9.63	54.00	9.94	150	114	Vertical	
2	2978.99	55.70	9.55	74.00	18.30	150	182	Vertical	
3	4880.00	29.97	-17.97	54.00	24.03	150	152	Vertical	
4	4880.00	42.33	-17.97	74.00	31.67	150	152	Vertical	
5	7320.00	47.36	-9.72	74.00	26.64	150	271	Vertical	
6	7320.00	36.88	-9.72	54.00	17.12	150	119	Vertical	
7	17907.5	47.38	0.69	54.00	6.62	150	169	Vertical	

**Final Data List** 



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> Report No.: ZR/2020/8002704 Page: 73 of 89



4.12.1.5	BLE 1M	Channel 39
<b>T</b> . 1 <b>2</b> . 1. <b>J</b>		

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Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2937.48	55.10	9.54	74.00	18.90	150	114	Horizontal			
2	2971.99	43.76	9.58	54.00	10.24	150	17	Horizontal			
3	4960.00	29.66	-17.47	54.00	24.34	150	151	Horizontal			
4	4960.00	41.43	-17.47	74.00	32.57	150	124	Horizontal			
5	7440.00	48.33	-9.35	74.00	25.67	150	360	Horizontal			
6	7440.00	37.62	-9.35	54.00	16.38	150	69	Horizontal			
7	17954.8	47.05	0.71	54.00	6.95	150	220	Horizontal			

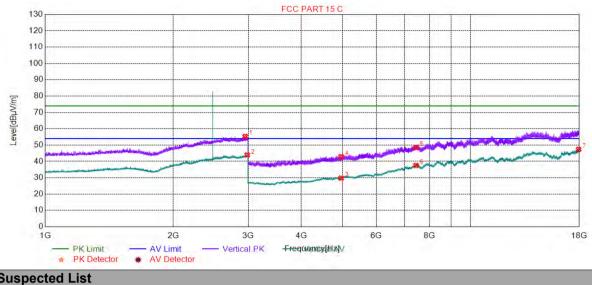
**Final Data List** 



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> Report No.: ZR/2020/8002704 Page: 74 of 89



### 4.12.1.6 BLE 1M\_Channel 39

S

Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2951.48	55.32	9.67	74.00	18.68	150	293	Vertical			
2	2984.49	43.98	9.52	54.00	10.02	150	182	Vertical			
3	4960.00	29.80	-17.47	54.00	24.20	150	315	Vertical			
4	4960.00	42.98	-17.47	74.00	31.02	150	13	Vertical			
5	7440.00	48.48	-9.35	74.00	25.52	150	170	Vertical			
6	7440.00	37.53	-9.35	54.00	16.47	150	321	Vertical			
7	17939.4	47.38	0.70	54.00	6.62	150	220	Vertical			

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> Report No.: ZR/2020/8002704 75 of 89 Page:

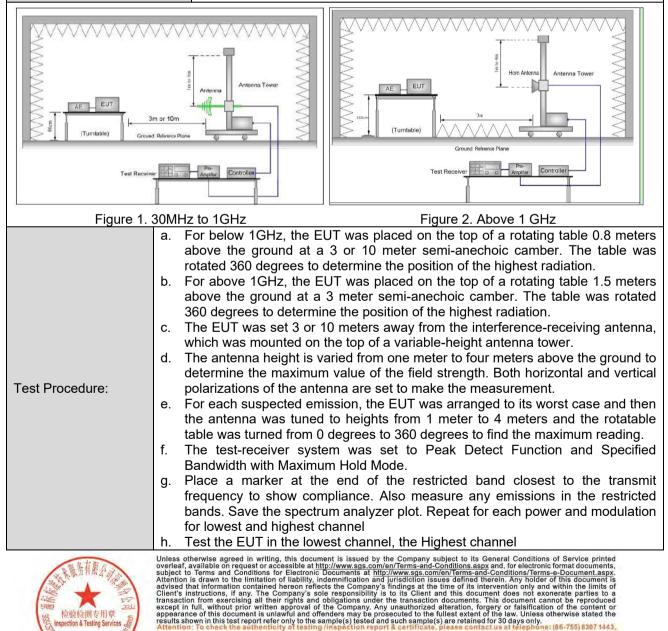
#### 4.13 Restricted bands around fundamental frequency

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: 3m or 10m (Semi-Anechoic Chamber)							
	Frequency	Limit (dBuV/m @3m)	Remark					
	30MHz-88MHz	40.0	Quasi-peak Value					
	88MHz-216MHz	43.5	Quasi-peak Value					
Limit:	216MHz-960MHz	46.0	Quasi-peak Value					
	960MHz-1GHz	54.0	Quasi-peak Value					
	Above 1GHz	54.0	Average Value					
		74.0	Peak Value					

Test Setup:

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Report No.: ZR/2020/8002704 Page: 76 of 89

	<ul> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ul>
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass



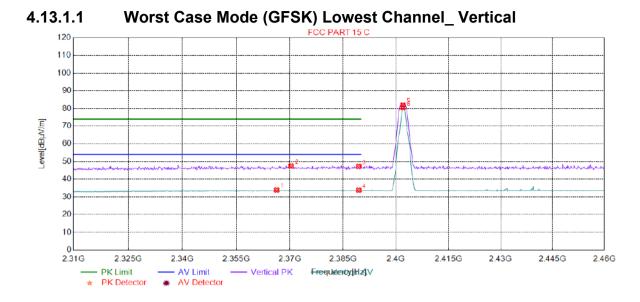
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Report No.: ZR/2020/8002704 Page: 77 of 89

4.13.1 Test plots



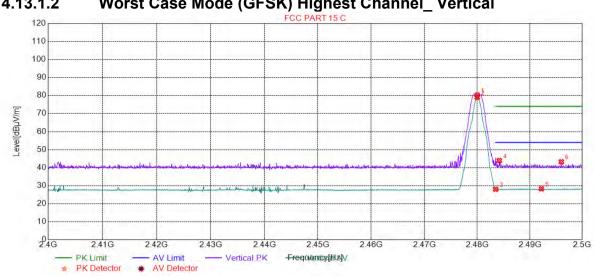
#### **Suspected List** Freq. Level Factor Limit Margin Height Angle NO. Polarity [dBµV/m] [dB] [dBµV/m] [dB] [cm] [°] [MHz] 1 2366.3063 33.91 7.79 54.00 20.09 150 204 Vertical 2 2370.3604 47.49 7.79 74.00 26.51 150 359 Vertical 47.30 7.77 26.70 Vertical 3 2389.4294 74.00 150 348 4 2389.4294 33.85 7.77 54.00 20.15 150 111 Vertical 5 2402.0000 82.00 7.77 0.00 -82.00 150 128 Vertical 2402.0000 7.77 0.00 150 124 Vertical 6 80.43 -80.43



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Report No.: ZR/2020/8002704 Page: 78 of 89



#### 4.13.1.2 Worst Case Mode (GFSK) Highest Channel\_ Vertical

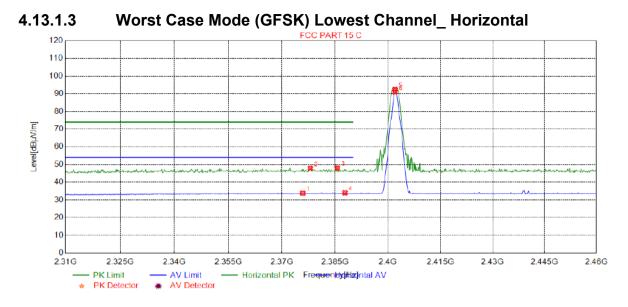
Suspe	Suspected List											
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Polarity				
	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]					
1	2480.0000	80.26	8.01	0.00	-80.26	150	89	Vertical				
2	2480.0000	78.96	8.01	0.00	-78.96	150	84	Vertical				
3	2483.5000	28.01	8.01	54.00	25.99	150	182	Vertical				
4	2484.1921	43.93	8.01	74.00	30.07	150	127	Vertical				
5	2492.1961	28.25	8.02	54.00	25.75	150	242	Vertical				
6	2495.9980	43.25	8.03	74.00	30.75	150	116	Vertical				



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Report No.: ZR/2020/8002704 Page: 79 of 89

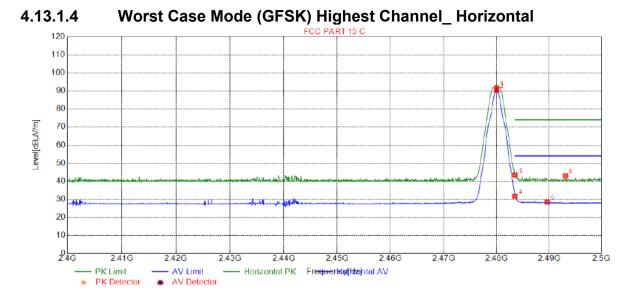


Suspe	Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2375.9159	33.81	7.78	54.00	20.19	150	152	Horizontal				
2	2378.0180	47.90	7.78	74.00	26.10	150	37	Horizontal				
3	2385.6757	48.04	7.77	74.00	25.96	150	70	Horizontal				
4	2387.7778	34.00	7.77	54.00	20.00	150	111	Horizontal				
5	2402.0000	92.50	7.77	0.00	-92.50	150	346	Horizontal				
6	2402.0000	90.99	7.77	0.00	-90.99	150	346	Horizontal				



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Report No.: ZR/2020/8002704 Page: 80 of 89



#### Suspected List Freq. Level Factor Limit Margin Height Angle NO. Polarity [MHz] [dBµV/m] [dB] [dBµV/m] [dB] [cm] [°] 346 2480.0000 91.64 8.01 0.00 -91.64 150 Horizontal 1 2 2480.0000 150 Horizontal 90.28 8.01 0.00 -90.28 346 3 2483.5000 43.46 8.01 74.00 30.54 150 206 Horizontal 4 2483.5000 31.63 54.00 22.37 150 190 Horizontal 8.01 150 200 Horizontal 5 2489.6448 28.38 8.02 54.00 25.62 6 2493.0965 43.01 8.02 74.00 30.99 150 238 Horizontal

#### Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

*Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor* All Modes have been tested, but only the worst case data displayed in this report.



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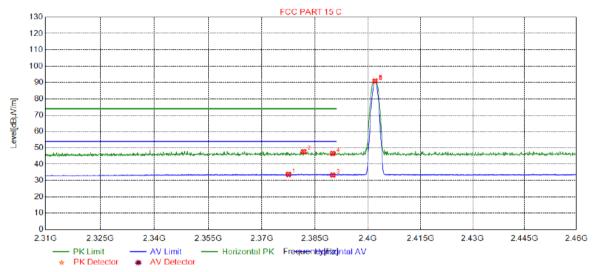


Report No.: ZR/2020/8002704 Page: 82 of 89

# 4.14 Spot Check Restricted bands around fundamental frequency

4.14.1 Test plots

4.14.1.1 BLE 1M Channel 0



Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2377.53	33.76	7.78	54.00	20.24	150	202	Horizontal			
2	2381.81	47.70	7.78	74.00	26.30	150	121	Horizontal			
3	2390.00	33.38	7.77	54.00	20.62	150	12	Horizontal			
4	2390.00	46.59	7.77	74.00	27.41	150	104	Horizontal			
5	2402.00	90.98	7.77	0.00	-90.98	150	202	Horizontal			
6	2402.00	90.41	7.77	0.00	-90.41	150	202	Horizontal			

**Final Data List** 

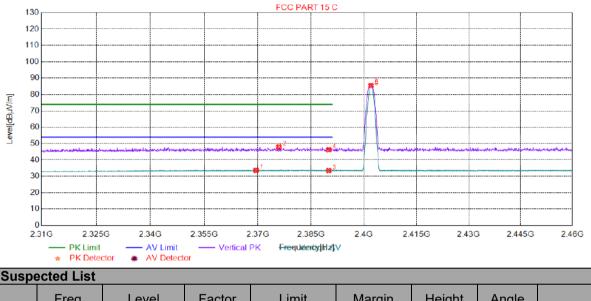


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Report No.: ZR/2020/8002704 Page: 83 of 89



### 4.14.1.2 BLE 1M\_Channel 0

	★ PK Detector     ★ AV Detector												
Susp	Suspected List												
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity					
1	2369.50	33.66	7.79	54.00	20.34	150	117	Vertical					
2	2375.95	47.98	7.78	74.00	26.02	150	321	Vertical					
3	2390.00	33.53	7.77	54.00	20.47	150	95	Vertical					
4	2390.00	46.23	7.77	74.00	27.77	150	139	Vertical					
5	2402.00	85.50	7.77	0.00	-85.50	150	222	Vertical					
6	2402.00	84.94	7.77	0.00	-84.94	150	222	Vertical					

**Final Data List** 



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Report No.: ZR/2020/8002704 Page: 84 of 89

150

150

150

150

28.41

21.79

27.35

21.28

122

242

0

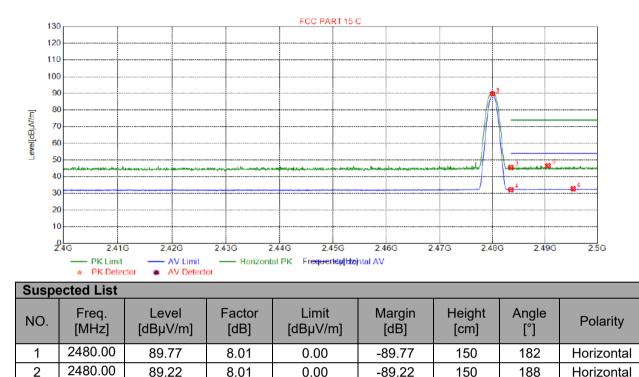
264

Horizontal

Horizontal

Horizontal

Horizontal



74.00

54.00

74.00

54.00

#### 4.14.1.3 BLE 1M\_Channel 39



2483.50

2483.50

2490.54

2495.34

45.59

32.21

46.65

32.72

8.01

8.01

8.02

8.02

3

4

5

6

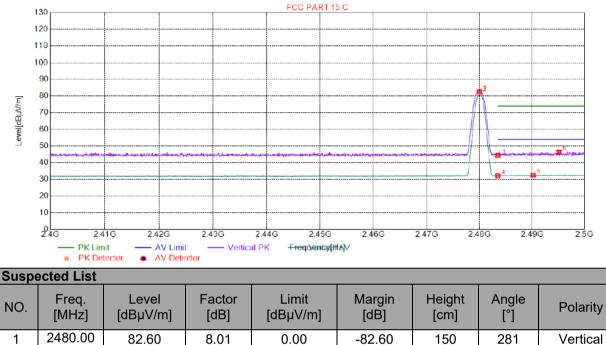
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Report No.: ZR/2020/8002704 Page: 85 of 89



#### 4.14.1.4 BLE 1M\_Channel 39

1	2480.00	82.60	8.01	0.00	-82.60	150	281	Vertical
2	2480.00	82.05	8.01	0.00	-82.05	150	276	Vertical
3	2483.50	44.40	8.01	74.00	29.60	150	29	Vertical
4	2483.50	32.20	8.01	54.00	21.80	150	85	Vertical
5	2490.19	32.51	8.02	54.00	21.49	150	270	Vertical
6	2495.09	46.49	8.02	74.00	27.51	150	40	Vertical
inal Da	nta List							

**Final Data List** 



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Report No.: ZR/2020/8002704 Page: 86 of 89

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

No.	Item	Measurement Uncertainty		
1	Total RF power, conducted	±0.75dB		
2	RF power density, conducted	±2.84dB		
3	Spurious emissions, conducted	±0.75dB		
4	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)		
4	Radiated Spundus emission test	±4.8dB (1GHz-25GHz)		
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)		
6	Temperature test	±1°C		
7	Humidity test	±3%		
8	DC and low frequency voltages	±0.5%		



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Report No.: ZR/2020/8002704 Page: 87 of 89

# 6 Equipment List

	Conducted Emission											
			Inventory	Cal. date	Cal.Duedate							
Test Equipment	Manufacturer	Model No.	No.	(yyyy-mm- dd)	(yyyy-mm- dd)							
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2020/5/10	2023/5/9							
LISN	Rohde & Schwarz	ENV216	SEM007-01	2020/7/14	2021/7/14							
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2020/4/1	2021/3/31							
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A							
Coaxial Cable	SGS	N/A	SEM024-01	2020/6/12	2021/6/11							
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T2-02	EMC0122	2020/2/11	2021/2/10							
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020/3/2	2021/3/1							

RF conducted test								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm- dd)	Cal.Duedate (yyyy-mm- dd)			
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2020/7/15	2021/7/15			
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/1/3	2021/1/2			
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11			
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A			
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14			
Temperature Chamber	GIANT FORCE	ICT-150-40- CP-AR	W027-03	2019/10/27	2020/10/27			
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14			



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Report No.: ZR/2020/8002704 Page: 88 of 89

	RI	E in Chamber					
Cal. date Cal.Due							
Test Equipment	Manufacturer	Model No.	Inventory No.	(yyyy-mm- dd)	date (yyyy-mm- dd)		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001- 02	2018/3/13	2021/3/12		
Measurement Software	AUDIX	e3V8.2014-6-27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026- 01	2020/6/12	2021/6/11		
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004- 09	2020/3/12	2021/3/11		
BiConiLog Antenna (26- 3000MHz)	ETS-Lindgren	3142C	SEM003- 01	2020/6/27	2023/6/26		
Horn Antenna (0.8- 18GHz)	Rohde & Schwarz	HF907	SEM003- 07	2018/4/13	2021/4/12		
Pre-amplifier(0.1- 1.3GHz)	HP	8447D	SEM005- 02	2020/7/14	2021/7/14		
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005- 05	2019/9/3	2020/9/2		
Horn Antenna (15- 40GHz)	Schwarzbeck	BBHA 9170	SEM003- 15	2017/10/17	2020/10/16		
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005- 17	2020/3/2	2021/3/1		
Band filter	N/A	N/A	SEM023- 01	N/A	N/A		
	RI	E in Chamber		•			
Test Fauinment	Test Equipment Manufacturer Mode	Model No.	Inventory No.	Cal. date	Cal.Due date		
				(yyyy-mm- dd)	(yyyy-mm- dd)		
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001- 01	2020/8/5	2023/8/4		
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM025- 01	2020/6/12	2021/6/11		
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004- 05	2020/7/14	2021/7/14		
BiConiLog Antenna (26- 3000MHz)	ETS-LINDGREN	3142C	SEM003- 01	2020/6/27	2023/6/26		
Pre-amplifier (0.1- 1.3GHz)	Agilent Technologies	8447D	SEM005- 01	2020/3/2	2021/3/1		



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Report No.: ZR/2020/8002704 Page: 89 of 89

RE in Chamber								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm- dd)	Cal. Due date (yyyy- mm-dd)			
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30			
EMI Test Receiver (9k- 7GHz)	Rohde & Schwarz	ESR	SEM004-03	2020/3/2	2021/3/1			
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2020/3/15	2022/3/14			
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2020/3/12	2021/3/11			
Loop Antenna (9kHz- 30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM029-01	2020/6/12	2021/6/11			

# 7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2020/80027.



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