> Report No.: ZR/2019/B000404 Page: 1 of 72

FCC TEST REPORT

Test Result:	PASS *
Date of Issue:	2019/12/15
Date of Test:	2019/11/14 to 2019/12/15
Date of Receipt:	2019/11/14
Test Method	KDB558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10 (2013)
	47 CFR Part 15, Subpart C
FCC ID: Standards:	2ACCJH113 47 CFR FCC Part 2, Subpart J
Trade Mark:	
Model No.:	5028A
EUT Description:	LTE/WCDMA/GSM mobile phone
Address of Manufacturer	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Manufacturer:	TCL Communication Ltd
Address of Applicant	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Applicant:	TCL Communication Ltd
Application No:	ZR/2019/B0004

* 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/2019/B000404 Page: 2 of 72

1 Version

Revision Record						
Version	Chapter	Date	Modifier	Remark		
00		2019/12/15		Original		

Authorized for issue by:		
Tested By	Mike Mu	2019/12/15
	(Mike Hu) /Project Engineer	Date
Checked By	David Chen	2019/12/15
	(David Chen) /Reviewer	Date



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Report No.: ZR/2019/B000404 Page: 3 of 72

2 Test Summary

SG

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



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Report No.: ZR/2019/B000404 Page: 4 of 72

Contents

1	VERSION	2
2	TEST SUMMARY	
3		
	3.1 CLIENT INFORMATION	5
	3.2 TEST LOCATION	
	3.3 TEST FACILITY	
	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	7
	4.1 ANTENNA REQUIREMENT	7
	4.2 AC Power Line Conducted Emissions	
	4.3 DUTY CYCLE	
	4.3.1 Test Results	
	4.3.1 Test Plots	
	4.4 CONDUCTED OUTPUT POWER	
	4.4.1 Test Results	
	 4.4.2 Test plots: 4.5 DTS (6 dB) BANDWIDTH & 99% OCCUPIED BANDWIDTH. 	
	 4.5 DTS (6 DB) BANDWIDTH & 99% OCCUPIED BANDWIDTH 4.5.1 Test Results 	
	4.5.2 Test plots	
	4.6 Power Spectral Density	
	4.6.1 Test Results	
	4.6.2 Test plots	
	4.7 BAND-EDGE FOR RF CONDUCTED EMISSIONS	
	4.7.1 Test plots	
	4.8 Spurious RF Conducted Emissions	
	4.8.1 Test plots:	
	4.9 RADIATED SPURIOUS EMISSION	
	4.9.1 Radiated Emission below 1GHz	
	4.9.2 Transmitter Emission above 1GHz	
	4.10 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	
	4.10.1 Test plots	
5	MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2)	70
6	EQUIPMENT LIST	71
7	PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	72



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Report No.: ZR/2019/B000404 Page: 5 of 72

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. ĆNAS L2929)

CNAS has accredited SGS-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.

• VCCI

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.



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Report No.: ZR/2019/B000404 Page: 6 of 72

3.4 General Description of EUT

	LITENNODNA/COM mobile phone	
EUT Description:	LTE/WCDMA/GSM mobile phone	
Model No.:	5028A	
Trade Mark:	alcatel	
Hardware Version:	PIO	
Software Version:	v4F58	
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:	-2.4dBi	
Power Supply:	AC/DC Adapter; 🛛 Battery; 🗌 PoE:; 🗋 Other:	

Operation Frequency of each channel							
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



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Report No.: ZR/2019/B000404 Page: 7 of 72

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.

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 -2.4dBi.



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Report No.: ZR/2019/B000404 Page: 8 of 72

Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz						
	Erequency range (MHz)						
	Frequency range (MHz)	Quasi-peak	Average				
1 :	0.15-0.5	66 to 56*	56 to 46*				
Limit:	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarith	nm of the frequency.					
Test Procedure:	 The mains terminal disturbance voltage test was conducted in a shielded room. 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. 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. 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. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to 						
Test Setup:	Shielding Room		st Receiver				

4.2 AC Power Line Conducted Emissions

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Report No.: ZR/2019/B000404 Page: 9 of 72

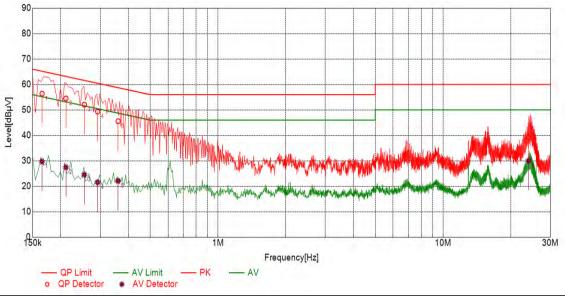
Test Mode:	Transmitting with GFSK modulation. Charge +Transmitting mode.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

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	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	0.1654	10.10	56.37	65.19	8.82	29.71	55.19	25.48	L
2	0.2111	10.10	54.49	63.16	8.67	27.43	53.16	25.73	L
3	0.2550	10.10	52.04	61.59	9.55	24.54	51.59	27.05	L
4	0.2920	10.10	49.34	60.47	11.13	21.51	50.47	28.96	L
5	0.3599	10.10	45.56	58.73	13.17	22.10	48.73	26.63	L
6	23.9887	10.11	39.14	60.00	20.86	30.02	50.00	19.98	L

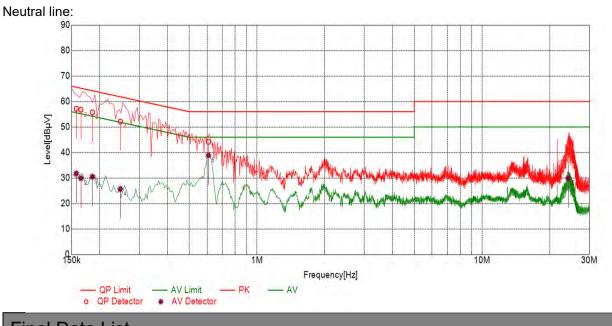


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Report No.: ZR/2019/B000404 Page: 10 of 72



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	0.1575	10.10	57.14	65.60	8.46	31.75	55.60	23.85	Ν
2	0.1651	10.10	56.79	65.21	8.42	29.90	55.21	25.31	Ν
3	0.1857	10.10	55.75	64.22	8.47	30.51	54.22	23.71	N
4	0.2472	10.10	52.13	61.85	9.72	25.68	51.85	26.17	N
5	0.6086	10.10	44.19	56.00	11.81	38.89	46.00	7.11	N
6	24.1378	10.11	40.34	60.00	19.66	29.93	50.00	20.07	N

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/2019/B000404 Page: 11 of 72

4.3 Duty Cycle

4.3.1	lest Results	
Test Mode	TX Freq. [MHz]	Duty cycle [%]
BLE(1MHz)	CH0	60.87
BLE(2MHz)	CH0	35.58

4.3.1 Test Plots

4.3.1.1 BLE(1MHz)

Agilent Spectr	um Analyzer - Swept SA								
LXIL	RF 50 Ω AC		SENS	SE:INT		ALIGN AUTO		MDec 13, 2019	Marker
Marker 3	1.32000 ms		, Trig: Free	Dun	Avg Ty Avg Ho	pe:Log-Pwr	TRA		
		PNO: Fast 🔸 IFGain:Low	#Atten: 40		Avgino	IG. 171	D		Select Marker
							Mkr3-1	.320 ms	3
10 dB/div	Ref Offset 1 dB Ref 20.00 dBm						-4.0	16 dBm	Ū
	Ker 20.00 ubin								
10.0		<u>^2</u>	•						Name
0.00		Q^	3		-				Norma
-10.0									
-20.0									
									Delta
-30.0									Denta
-40.0	L. LINI, D. AL	51.48	Nov D				wM		
-50.0	<u>hyperson</u>	- Maki		Y4	MMA2N		and a state of the		
-60.0									Fixed▷
-70.0									
	402000000 GHz						5	ipan 0 Hz	
Res BW 1	I.0 MHz	#VBW	1.0 MHz			Sweep 3	.000 ms (1001 pts)	Off
MKR MODE TF	RC SCL X		Y		CTION F	UNCTION WIDTH	FUNCTI	DN VALUE	
1 N 1 2 N 1	t	699.0 µs 1.077 ms	-2.741 dB -3.465 dB	m					
2 N 1		1.320 ms	-3.405 dB -4.016 dB	m					Burnetters
4 5									Properties ▶
6									
7 8									
9									More
10									1 of 2
11								~	
MSG						STATUS	1		
mod						STATUS	`		

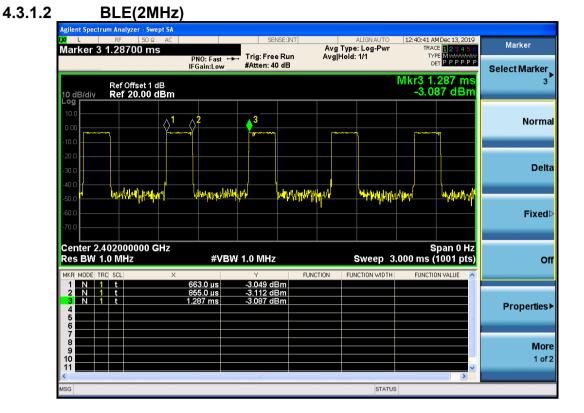


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Report No.: ZR/2019/B000404 Page: 12 of 72

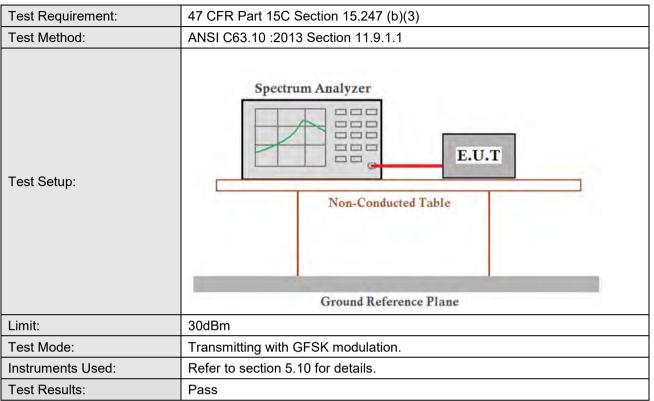




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Report No.: ZR/2019/B000404 Page: 13 of 72



4.4 Conducted Output Power

4.4.1 Test Results Measurement Data of Average Power

induouronnon Duta or / norago : onor							
GFSK 1M mode							
Test channel	Average Output Power (dBm)	Result					
Lowest	-3.81	Report purpose only					
Middle	-3.22	Report purpose only					
Highest	-3.33	Report purpose only					

GFSK 2M mode					
Test channel	Average Output Power (dBm)	Result			
Lowest	-2.63	Report purpose only			
Middle	-1.42	Report purpose only			
Highest	-2.34	Report purpose only			



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Report No.: ZR/2019/B000404 Page: 14 of 72

Measurement Data of Peak Power:

GFSK 1M mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	3.126	30.00	Pass			
Middle	3.938	30.00	Pass			
Highest	3.781	30.00	Pass			

GFSK 2M mode							
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	2.266	30.00	Pass				
Middle	1.953	30.00	Pass				
Highest	2.721	30.00	Pass				

4.4.2 Test plots:

4.4.2.1 GFSK 1M_Lowest Channel

Agilent Spectrum Analyzer -	The duty cycle factor 0 o	IB added.				
RL RF 50 Center Freq 2.402	Ο Ω AC 2000000 GHz PNO: Wid IFGain:Lov		Avg Ty	ALIGNAUTO rpe: RMS Id: 10/10	12:09:32 AM Dec 13, 20: TRACE 1 2 3 4 5 TYPE M WAAAAA DET P P P P F	Frequency
Ref Offset 10 dB/div Ref 30.0	:1 dB			Mkr1 Band Po	2.402 000 GH wer 3.126 dBr	Z Auto Tune n
20.0 10.0					*	Center Fred 2.402000000 GHz
-10.0		1 1	www.			Start Free 2.400000000 GH:
-40.0 -50.0 -60.0	mar			Martin Contraction	Law Martin Dog and Martin	Stop Free 2.404000000 GH
Start 2.400000 GHz FRes BW 20 kHz	#\ ×	/BW 62 kHz Y		#Sweep	rener mere	
1 N 1 f 2 3 4 5 6 9	2.402 000 GHz	-10.185 dBm	Band Power	1.040 MHz	3.126 dB	Freq Offse 0 H
7 8 9 10 11 11					>	>
SG				STATUS	•	



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Report No.: ZR/2019/B000404 Page: 15 of 72



4.4.2.2 GFSK 1M_Middle Channel

4.4.2.3

GFSK 1M_Highest Channel



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4.4.2.5

GFSK 2M_Middle Channel



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Report No.: ZR/2019/B000404 Page: 17 of 72



4.4.2.6 GFSK 2M_Highest Channel

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Report No.: ZR/2019/B000404 Page: 18 of 72

4.5 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					

4.5.1 Test Results

T.V. I	10011000010	-			
Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	1.039	0.674	≥500	Pass
GFSK 1M	Middle	1.041	0.687	≥500	Pass
	Highest	1.041	0.687	≥500	Pass

Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	2.062	1.166	≥500	Pass
GFSK 2M	Middle	2.060	1.156	≥500	Pass
	Highest	2.060	1.156	≥500	Pass



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Report No.: ZR/2019/B000404 Page: 19 of 72

4.5.2 Test plots

4.5.2.1 GFSK 1M Lowest Channel





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Center Freq: 2.440000000 GHz

ALIGN AUTO

Report No.: ZR/2019/B000404 20 of 72 Page:

Frequency

12:13:04 AMDec 13, 2019 Radio Std: None

Avg|Hold: 10/10 Trig: Free Run #Atten: 40 dB Radio Device: BTS #IFGain:Low Ref Offset 1 dB Ref 25.00 dBm 10 dB/div **Center Freq** 2 44000000 GHz AMV . Center 2.44 GHz #Res BW 20 kHz Span 4 MHz Sweep 9.6 ms **CF** Step #VBW 62 kHz 400.000 kHz Auto Man Total Power **Occupied Bandwidth** 4.13 dBm 1.0405 MHz **Freq Offset** 0 Hz 12.319 kHz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 1.258 MHz x dB -26.00 dB STATUS gilent Spectrum Analyzer - Occupied BW 12:12:56 AMDec 13, 2019 Radio Std: None RL Center Freq: 2.440000000 GHz Trig: Free Run Avg|Hol ALIGN AUTO Frequency Center Freq 2.440000000 GHz Avg|Hold: 10/10 #IFGain:Low #Atten: 40 dB Radio Device: BTS Ref Offset 1 dB Ref 25.00 dBm 10 dB/div og **Center Freq** 2.440000000 GHz Center 2.44 GHz #Res BW 100 kHz Span 4 MHz **CF** Step #VBW 300 kHz Sweep 1 ms 400.000 kHz Auto Total Power 4.59 dBm **Occupied Bandwidth** 1.0572 MHz **Freq Offset** 5.579 kHz 0 Hz Transmit Freg Error **OBW Power** 99.00 % x dB Bandwidth 687.1 kHz x dB -6.00 dB



Center Freq 2.440000000 GHz

Occupied BV

eilent Spectrum Ana



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Man

GFSK 1M Highest Channel

Report No.: ZR/2019/B000404 Page: 21 of 72

eilent Spectrum An Occupied B 12:16:27 AMDec 13, 2019 Radio Std: None ALIGN AUTO Frequency Center Freq 2.480000000 GHz Center Freq: 2.480000000 GHz Avg|Hold: 10/10 Trig: Free Run #Atten: 40 dB Radio Device: BTS #IFGain:Low Ref Offset 1 dB Ref 25.00 dBm 10 dB/div **Center Freq** 2 48000000 GHz MM M Center 2.48 GHz #Res BW 20 kHz Span 4 MHz Sweep 9.6 ms **CF** Step #VBW 62 kHz 400.000 kHz Auto Man Total Power **Occupied Bandwidth** 3.97 dBm 1.0405 MHz **Freq Offset** 0 Hz 12.053 kHz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 1.256 MHz x dB -26.00 dB STATUS gilent Spectrum Analyzer - Occupied BW 12:16:19 AMDec 13, 2019 Radio Std: None RL Center Freq: 2.480000000 GHz Trig: Free Run Avg|Hol ALIGN AUTO Frequency Center Freq 2.480000000 GHz Avg|Hold: 10/10 #IFGain:Low #Atten: 40 dB Radio Device: BTS Ref Offset 1 dB Ref 25.00 dBm 10 dB/div og **Center Freq** 2.480000000 GHz www. www. Center 2.48 GHz #Res BW 100 kHz Span 4 MHz **CF** Step #VBW 300 kHz Sweep 1 ms 400.000 kHz Auto Man Total Power 4.30 dBm **Occupied Bandwidth** 1.0580 MHz **Freq Offset** 5.263 kHz 0 Hz Transmit Freg Error **OBW Power** 99.00 % x dB Bandwidth 687.1 kHz x dB -6.00 dB STATUS



4.5.2.3

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Report No.: ZR/2019/B000404 Page: 22 of 72

Frequency

Center Freq

Aglent Spectrum Analyzer - Occupied BW Conter Freq 2.402000000 GHz #IFGain:Low Ref Offset 1 dB 10 dB/div Ref 25.00 dBm Conter Freq 2.402000000 GHz Ref Offset 1 dB Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Ref Offset 1 dB Conter Freq 2.402000000 GHz Ref Offset 1 dB Conter Freq 2.402000000 GHz Ref Offset 1 dB Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Radio Std: None Radio Device: BTS Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Radio Device: BTS Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Radio Device: BTS Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Radio Device: BTS Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Conter Freq 2.402000000 GHz Radio Device: BTS Conter Freq 2.402000000 GHz Conter Freq 2.40 dB Conter Freq 2.40 dB

GFSK 2M Lowest Channel







4.5.2.4

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GFSK 2M Middle Channel

Report No.: ZR/2019/B000404 Page: 23 of 72

eilent Spectrum An Occupied B 12:24:43 AMDec 13, 2019 Radio Std: None ALIGN AUTO Frequency Center Freq 2.440000000 GHz Center Freq: 2.440000000 GHz Avg|Hold: 10/10 Trig: Free Run #Atten: 40 dB Radio Device: BTS #IFGain:Low Ref Offset 1 dB Ref 25.00 dBm 10 dB/div **Center Freq** 2 44000000 GHz $\sim \sim$ Center 2.44 GHz #Res BW 20 kHz Span 4 MHz Sweep 9.6 ms **CF** Step #VBW 62 kHz 400.000 kHz Auto Man Total Power **Occupied Bandwidth** 3.48 dBm 2.0598 MHz **Freq Offset** 0 Hz 21.200 kHz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 2.499 MHz x dB -26.00 dB STATUS gilent Spectrum Analyzer - Occupied BW 12:24:35 AMDec 13, 2019 Radio Std: None RL Center Freq: 2.440000000 GHz Trig: Free Run Avg|Hol ALIGN AUTO Frequency Center Freq 2.440000000 GHz Avg|Hold: 10/10 #IFGain:Low #Atten: 40 dB Radio Device: BTS Ref Offset 1 dB Ref 25.00 dBm 10 dB/div og **Center Freq** 2.440000000 GHz Center 2.44 GHz #Res BW 100 kHz Span 4 MHz **CF** Step #VBW 300 kHz Sweep 1 ms 400.000 kHz Auto Man Total Power 4.87 dBm **Occupied Bandwidth** 2.0791 MHz **Freq Offset** 0 Hz Transmit Freg Error 11.716 kHz **OBW Power** 99.00 % x dB Bandwidth 1.156 MHz x dB -6.00 dB STATUS



4.5.2.5

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GFSK 2M Highest Channel

Report No.: ZR/2019/B000404 Page: 24 of 72

eilent Spectru 12:24:43 AMDec 13, 2019 Radio Std: None ALIGN AUTO Frequency Center Freq 2.440000000 GHz Center Freq: 2.480000000 GHz Avg|Hold: 10/10 Trig: Free Run #Atten: 40 dB #IFGain:Low Radio Device: BTS Ref Offset 1 dB Ref 25.00 dBm 10 dB/div Center Fred 2 /8000000 GHz ww \sim Center 2.48 GHz #Res BW 20 kHz Span 4 MHz Sweep 9.6 ms **CF** Step #VBW 62 kHz 400.000 kHz Man Auto Total Power **Occupied Bandwidth** 3.48 dBm 2.0598 MHz Freq Offset 0 Hz 21.200 kHz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 2.499 MHz x dB -26.00 dB STATUS gilent Spectrum Analyzer - Occupied BW RL 12:24:35 AMDec 13, 2019 Radio Std: None ALIGN AUTO Center Freq: 2.480000000 GHz Trig: Free Run Avg|Hol Frequency Center Freq 2.440000000 GHz Avg|Hold: 10/10 #IFGain:Low #Atten: 40 dB Radio Device: BTS Ref Offset 1 dB Ref 25.00 dBm 10 dB/div og Center Freq 2 48000000 GHz Center 2.48 GHz #Res BW 100 kHz Span 4 MHz CF Step #VBW 300 kHz Sweep 1 ms 400.000 kHz Auto Man Total Power 4.87 dBm **Occupied Bandwidth** 2.0791 MHz Freq Offset 0 Hz Transmit Freg Error 11.716 kHz **OBW Power** 99.00 % x dB Bandwidth 1.156 MHz x dB -6.00 dB STATUS



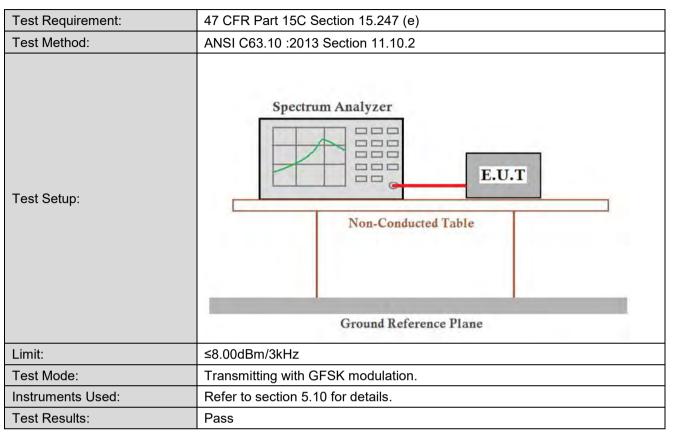
4.5.2.6

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Report No.: ZR/2019/B000404 Page: 25 of 72

4.6 **Power Spectral Density**



4.6.1 Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-17.537	≤8.00	Pass
GFSK 1M	Middle	-16.619	≤8.00	Pass
	Highest	-16.720	≤8.00	Pass

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-20.15	≤8.00	Pass
GFSK 2M	Middle	-19.697	≤8.00	Pass
	Highest	-19.633	≤8.00	Pass



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Report No.: ZR/2019/B000404 Page: 26 of 72

- 4.6.2 Test plots
- 4.6.2.1 GFSK 1M Lowest Channel



4.6.2.2 GFS

GFSK 1M Middle Channel





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Report No.: ZR/2019/B000404 Page: 27 of 72







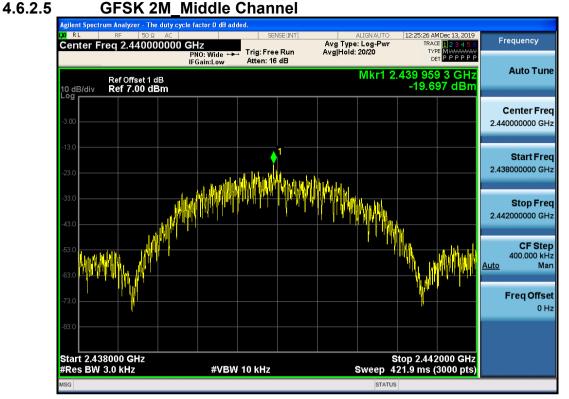




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Report No.: ZR/2019/B000404 Page: 28 of 72





GFSK 2M Highest Channel





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> Report No.: ZR/2019/B000404 Page: 29 of 72

4.7 Band-edge for RF Conducted Emissions

SG

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
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



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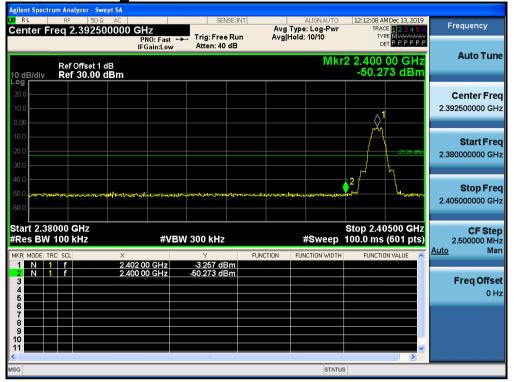
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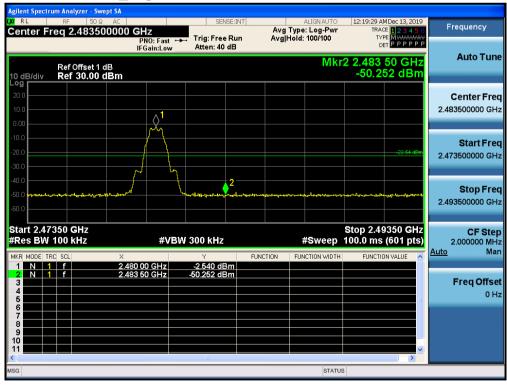
Report No.: ZR/2019/B000404 Page: 30 of 72

4.7.1 Test plots

4.7.1.1 GFSK 1M Lowest Channel



4.7.1.2 GFSK 1M_Highest Channel



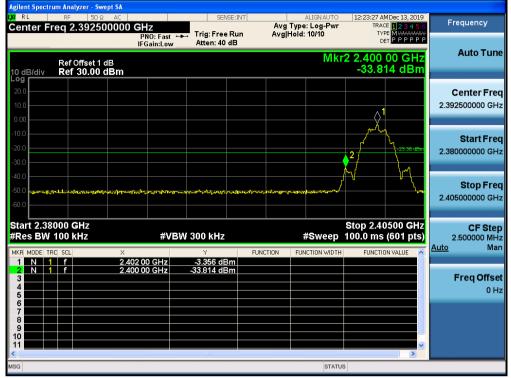
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Report No.: ZR/2019/B000404 Page: 31 of 72

4.7.1.3 GFSK 2M_Lowest Channel



4.7.1.4

GFSK 2M_Highest Channel



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> Report No.: ZR/2019/B000404 Page: 32 of 72

4.8 Spurious RF Conducted Emissions

SG

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



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Report No.: ZR/2019/B000404 33 of 72 Page:

Test plots: 4.8.1

4.8.1.1

GFSK 1M Lowest Channel



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Report No.: ZR/2019/B000404 Page: 34 of 72

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Res BW gilent Spect RL RL Center F 0 dB/div 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	10 kHz rum Analyzer - Swa Ref 0ffset 1 α Ref 20.00 α 	AC PP PE BB BB BB BB BB BB BB BB BB BB BB BB BB	−z N0: Fast Gain:Low	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGNAUTO :: Log-Pwr >50/50 MIKr	85.4 ms (DC Cou 12:10:58 Af TRAC TYP 1 2.223 -46.7	3001 pts) apled (Dec 13, 2019 E 12 34 5 6 Minore 12 34 5 6 Minore 12 34 5 6 39 GHz 45 dBm	Auto Tur Center Fra 1.165000000 Gl Start Fra 30.000000 Ml Stop Fra 2.30000000 Gl CF Sta 227.000000 Ml Auto Mi
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Res BW gilent Spectr RL RL Center F 2000 10.0 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	10 kHz rum Analyzer - Swa Ref 0ffset 1 α Ref 20.00 α 	AC PP PE BB BB BB BB BB BB BB BB BB BB BB BB BB	-Iz N0: Fast ⊂ Gain:Low	SEN Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGNAUTO :: Log-Pwr >50/50 MIKr	85.4 ms (DC Cou 12:10:58 Af TRAC TYP 12:223 -46.7	3001 pts) apled (Dec 13, 2019 E 12 34 5 6 Minore 12 34 5 6 Minore 12 34 5 6 39 GHz 45 dBm	Auto Tur Center Fra 1.165000000 Gl Start Fra 30.000000 Ml Stop Fra 2.30000000 Gl CF Sta 227.000000 Ml Auto Mi
Res BW gilent Spectric RL RL Center F 2000 2	10 kHz	AC PP PE BB BB BB BB BB BB BB BB BB BB BB BB BB	Iz NO: Fast Gain:Low	SEN Trig: Free #Atten: 40	Run dB		ALIGNAUTO :: Log-Pwr >50/50 MIKr	85.4 ms (DC Cou 12:10:58 Af TRAC TYA TYA TRAC TYA TYA TYA TYA TYA TYA TYA TYA	3001 pts) apled MDec 13, 2019 E 23 4 5 6 Momental 23 4 5 6 Moment	Auto Tur Center Fra 1.165000000 Gl Start Fra 30.000000 Ml Stop Fra 2.300000000 Gl CF Ste 227.000000 Ml

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Report No.: ZR/2019/B000404 Page: 35 of 72

L <mark>XI</mark> RL									
	rum Analyzer - Swept SA RF 50 Ω AC		SEN	SE:INT		ALIGN AUTO	12:11:10 AF	4Dec 13, 2019	_
Center F	req 2.350000000	GHz			Avg Type Avg Hold:	: Log-Pwr	TRAC	E 123456 E M W M M M M M T P P P P P P	Frequency
		PNO: Fast 🕞 IFGain:Low	#Atten: 40		inginoia.	2001200	DE	ТРРРРР	
	Ref Offset 1 dB					Mk	r1 2.39	9 6 GHz	Auto Tun
10 dB/div Log	Ref 20.00 dBm						-48.0	87 dBm	
3									Center Free
10.0									2.350000000 GH
0.00									Start Free
									2.300000000 GH
-10.0									
-20.0								-23.23 dBm	Oton Ero
								-23.23 dBm	Stop Fre 2.400000000 GH
-30.0									2.40000000000
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-40.0								1	10.000000 MH
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-50.0 1444/14	aytune alaan tahala ahaan ahaan ahaa	Confederation (Strates)	NUMPHTPHUN	latani	witylerwyd/ylynnwy	(VINILANILA MA))	an Millian Mari	htten the particular	
-60.0									Freq Offse
									0 H
-70.0									
Start 2.30							Stop 2.40		
#Res BW	100 KHZ	#VBW	/ 300 kHz			Sweep 9	`	1001 pts)	
MSG						STATUS			
	rum Analyzer - Swept SA RF 50 Ω AC		CEN	ISE:INT		ALIGN AUTO	12:11:20 AI	(Dec 12, 2010	
Center F	req 2.491750000	GHz				: Log-Pwr	TRAC	E 1 2 3 4 5 6 E M WARMAN	Frequency
		PNO: Fast 😱 IFGain:Low	#Atten: 40		Avginola.	~200/200	DE	TPPPPP	
10 dB/div Log	Ref Offset 1 dB					Mkr1 2		7 5 GHz	Auto Tun
	Ref 20.00 dBm					Mkr1 2			Auto Tun
						Mkr1 2		7 5 GHz	
10.0						Mkr1 2		7 5 GHz	Center Fre
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10.0 0.00 -10.0 -20.0						Mkr1 2		7 5 GHz 32 dBm	Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre
10.0 0.00 -10.0						Mkr1 2		7 5 GHz 32 dBm	Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre
10.0 0.00 -10.0 -20.0 -30.0						Mkr1 2		7 5 GHz 32 dBm	Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH
10.0 0.00 -10.0 -20.0						Mkr1 2		7 5 GHz 32 dBm	Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH CF Ste 1.650000 MH
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10.0	Ref 20.00 dBm		1 millionni	ijortur Nibur	in the second		-49.0	7 5 GHz 32 dBm -23 23 dBm	Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH CF Ste 1.650000 MH Auto Ma
10.0	Ref 20.00 dBm		1	iyanin Nura	S. Walnord		-49.0	7 5 GHz 32 dBm -23 23 dBm	Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH CF Ste 1.650000 MH Auto Ma
10.0 0.00 -10.0 -20.0 -20.0 -30.0 -40.0 -60.0 -60.0 -70.0 -70.0	Ref 20.00 dBm		1 กไซ์เกมา	iyrnw∫l/u~*	p.Workpower	wylite	-49.0	5 GHz 32 dBm -23 23 dBm	Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH CF Ste 1.650000 MH Auto Ma
10.0	Ref 20.00 dBm		n Jawad	jorno filor	in llivity over of	wyldush	-49.0	7 5 GHz 32 dBm -23 23 dBm هورليمي المراجع	Center Free 2.491750000 GH Start Free 2.483500000 GH Stop Free 2.500000000 GH CF Steg 1.650000 MH
10.0 0.00 -10.0 -20.0 -30.0 -40.0 -60.0 -60.0 -70.0	Ref 20.00 dBm		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	yern flur	p.M.Aboved	wyldush	-49.0 სერ_ქარი itop 2.500 1.600 ms	7 5 GHz 32 dBm -23 23 dBm هورليمي المراجع	Center Free 2.491750000 GH Start Free 2.483500000 GH Stop Free 2.500000000 GH CF Step 1.650000 MH Auto Mar

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Report No.: ZR/2019/B000404 Page: 36 of 72

Agilent Spectrum Analyzer - Swept SA					
₩ RL RF 50Ω AC Center Freg 14.500000000			ALIGNAUTO : Log-Pwr	12:11:53 AMDec 13, 2019	Frequency
	PNO: Fast Trig: Free IFGain:Low #Atten: 40	≘Run Avg Hold:		TRACE 123456 TYPE MWWWWW DET PPPPP	
Ref Offset 1 dB 10 dB/div Ref 20.00 dBm			Mk	r1 26.473 GHz -38.615 dBm	Auto Tune
10.0					Center Freq 14.500000000 GHz
-10.0					Start Freq 2.500000000 GHz
-20.0				-23.23 dBm	Stop Freq 26.500000000 GHz
-40.0			and the second secon		CF Step 2.400000000 GHz <u>Auto</u> Man
-60.0					Freq Offset 0 Hz
-70.0					
Start 2.50 GHz #Res BW 100 kHz	#VBW 300 kHz		Sween 2	Stop 26.50 GHz 2.294 s (8001 pts)	
MSG			STATUS	inter e (ever pro)	

4.8.1.2 GFSK 1M_Middle Channel



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Report No.: ZR/2019/B000404 Page: 37 of 72

	RF 50 Ω 🥂 DC		SENSE:INT	ALIGNAUTO	12:14:03 AMDec 13, 2019	Frequency
enter Fi	req 79.500 kHz	PNO: Wide 😱	Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>50/50	TRACE 123456 TYPE MWWWW DET P P P P P	Frequency
0 dB/div	Ref Offset 1 dB Ref 0.00 dBm	IFGain:Low	#Atten: 26 dB	M	lkr1 11.350 kHz -52.978 dBm	Auto Tur
	Rel 0.00 uBill					
10.0						Center Fre 79.500 kH
						79.500 Kr
20.0						Start Fre
30.0						9.000 ki
10.0					-42.43 dBm	Stop Fre
io.o <mark> 1</mark>						150.000 ki
-ringh	~ A					CF Ste
50.0	- a the Way what	<i>Λ</i> .				14.100 ki
70.0	ግግ የለም	11 monthalan	- Alever and a second	how when the second of the second sec		<u>Auto</u> Mi
:0.0			սու չի չուներին հերություն	ᡃ᠋᠆ᢣ᠉᠂ᠬᠬ᠕᠕᠕ᡁᡀ᠉᠕ᡢ᠕ᡁ	how we have all and	Freq Offs
3U.U						. 01
90.0						
tart 9.00					Stop 150.00 kHz	
	10647	#\/D\M	306442	Sween	131 9 mc (601 ntc)	
	1.0 kHz	#VBW	3.0 kHz		134.8 ms (601 pts)	
SG		#VBW	3.0 kHz		134.8 ms (601 pts)	
sg gilent Spectr / RL	um Analyzer - Swept SA RF 50 Ω ▲ DC		3.0 kHz	ALIGN AUTO	DC Coupled	Frequency
sG gilent Spectr	um Analyzer - Swept SA			STATUS	DC Coupled	Frequency
sG gilent Spectr RL	um Analyzer - Swept SA RF 50 ♀♪DC req 15.075000 MI	Hz PNO: Fast 😱	SENSE:INT	ALIGN AUTO AVg Type: Log-Pwr	DC Coupled	
g <mark>ilent Spectr</mark> RL Center Fi OdB/div	um Analyzer - Swept SA RF 50 Ω ▲ DC	Hz PNO: Fast 😱	SENSE:INT	ALIGN AUTO AVg Type: Log-Pwr	DC Coupled	
g <mark>ilent Spectr</mark> RL enter Fi 0 dB/div	um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB	Hz PNO: Fast 😱	SENSE:INT	ALIGN AUTO AVg Type: Log-Pwr	DC Coupled	Auto Tui
g <mark>ilent Spectr</mark> RL enter Fi 0 dB/div	um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB	Hz PNO: Fast 😱	SENSE:INT	ALIGN AUTO AVg Type: Log-Pwr	DC Coupled	Auto Tur Center Fre
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sc silent Spectr RL enter Fr od B/div og	um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB	Hz PNO: Fast 😱	SENSE:INT	ALIGN AUTO AVg Type: Log-Pwr	DC Coupled	Auto Tur Center Fra 15.075000 Mi Start Fra
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C dB/div C dB/d	um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB	Hz PNO: Fast 😱	SENSE:INT	ALIGN AUTO AVg Type: Log-Pwr	DC Coupled	Auto Tur Center Fro 15.075000 Mi Start Fro 150.000 ki Stop Fro 30.000000 Mi
Contraction of the sector of t	um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB	Hz PNO: Fast 😱	SENSE:INT	ALIGN AUTO AVg Type: Log-Pwr	DC Coupled	Auto Tur Center Fra 15.075000 Mi Start Fra 150.000 ki Stop Fra 30.000000 Mi CF Ste 2.985000 Mi
sa RL RL CodB/div 0 dB/div 0 dB	um Analyzer - Swept SA RF 50 ⊗ A DC req 15.075000 Mi Ref Offset 1 dB	Hz PNO: Fast 😱	SENSE:INT	ALIGN AUTO AVg Type: Log-Pwr	DC Coupled	Auto Tur Center Fro 15.075000 Mi Start Fro 150.000 ki Stop Fro 30.000000 Mi 2.985000 Mi Auto Mi
	um Analyzer - Swept SA RF SO Q ALDC req 15.075000 MI Ref Offset 1 dB Ref 20.00 dBm	Hz PN0: Fast	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	■ DC Coupled 12:14:25 AMDec 13,2019 TRACE 12:3 4 5 G TYPE MINNEY DET IP PP PP Mkr1 150 kHz -41.282 dBm -32.43 dBm	Auto Tur Center Fra 15.075000 Mi Start Fra 150.000 ki Stop Fra 30.000000 Mi 2.985000 Mi Auto Mi Freq Offs
3G RL RL<	um Analyzer - Swept SA RF SO Q ALDC req 15.075000 MI Ref Offset 1 dB Ref 20.00 dBm	Hz PN0: Fast	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGN AUTO AVg Type: Log-Pwr	■ DC Coupled 12:14:25 AMDec 13,2019 TRACE 12:3 4 5 G TYPE MINNEY DET IP PP PP Mkr1 150 kHz -41.282 dBm -32.43 dBm	Auto Tur Center Fra 15.075000 Mi Start Fra 150.000 ki Stop Fra 30.000000 Mi 2.985000 Mi Auto Mi Freq Offs
3G RL RL<	um Analyzer - Swept SA RF SO Q ALDC req 15.075000 MI Ref Offset 1 dB Ref 20.00 dBm	Hz PN0: Fast	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	■ DC Coupled 12:14:25 AMDec 13,2019 TRACE 12:3 4 5 G TYPE MINNEY DET IP PP PP MIKr1 150 KHZ -41.282 dBm -32:43 dBm	Auto Tur Center Fre 15.075000 MH Start Fre 150.000 kH Stop Fre 30.000000 MH 2.985000 MH Auto MH Freq Offs
3G RL RL<	Im Analyzer - Swept SA RF SO ALOC req 15.075000 Mi Ref Offset 1 dB Ref 20.00 dBm 	Hz PN0: Fast	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	■ DC Coupled 12:14:25 AMDec 13,2019 TRACE 12:3 4 5 G TYPE MINNEY DET IP PP PP MIKr1 150 KHZ -41.282 dBm -32:43 dBm	Auto Tur Center Fre 15.075000 M Start Fre 150.000 k Stop Fre 30.000000 M CF Ste 2.985000 M

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Report No.: ZR/2019/B000404 Page: 38 of 72

eilent Spectr	um Analyzer - Swept SA					
KI RL	RF 50 Ω AC		SENSE:INT	ALIGNAUTO	12:14:46 AMDec 13, 2019	Frequency
Center Fi	req 1.16500000	D GHZ PNO: Fast IFGain:Low	Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr Avg Hold:>50/50	TRACE 1 2 3 4 5 6 TYPE M WATMAW DET P P P P P	
	D-COC-+4-ID	IFGall.LOW	intern to ab	Mkr	1 2.259 71 GHz	Auto Tun
0 dB/div	Ref Offset 1 dB Ref 20.00 dBm				-46.436 dBm	
^{.og}						Center Fre
10.0						1.165000000 GH
0.00						Start Fre
10.0						30.000000 MH
10.0						
20.0					-22.43 dBm	Stop Fre
						2.30000000 GH
30.0						
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						227.000000 MH Auto Ma
50.0 Million Leg			and the second secon	n particular de la constructiva de la deserva de la constructiva de la constructiva de la constructiva de la co	ala na shari a lara kaba a shara da	
60.0						Freq Offse
00.0						0 H
70.0						
start 30 N	al I –				Stop 2.300 GHz	
#Res BW		#VBW	300 kHz		217.1 ms (8001 pts)	
		#VBW	300 kHz	Sweep 2		
#Res BW	100 KHZ rum Analyzer - Swept SA			STATUS	3	
Res BW sg gilent Spectr g RL	100 kHz	0 GHz	SENSE:INT	STATU: ALIGNAUTO Avg Type: Log-Pwr	12:14:58 AMDec 13.2019	Frequency
Res BW sg gilent Spectr g RL	100 kHz um Analyzer - Swept SA RF 50 Q AC			ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200	3 12:14:58 AMDec 13, 2019 TRACE 1, 2 3 4 5 6 TYPE MWWWWW DET P P P P P	
Res BW sg gilent Spectr RL Center F	100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000	0 GHz PN0: Fast 😱	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200	12:14:58 AMDec 13, 2019 TRACE 12 2 3 4 5 G TYPE MWWWWW DET P P P P P Cr1 2.391 5 GHz	
Res BW sg gilent Spectr / RL Center Fi Center Fi 0 dB/div	100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000	0 GHz PN0: Fast 😱	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200	3 12:14:58 AMDec 13, 2019 TRACE 1, 2 3 4 5 6 TYPE MWWWWW DET P P P P P	
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Res BW sq glient Spectr RL Center Fi	100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000	0 GHz PN0: Fast 😱	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200	12:14:58 AMDec 13, 2019 TRACE 12 2 3 4 5 G TYPE MWWWWW DET P P P P P Cr1 2.391 5 GHz	Auto Tun Center Fre 2.35000000 GF Start Fre 2.300000000 GF
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Res BW gjlent Spectr gjlent Spectr Code/div O	100 kHz um Analyzer - Swept SA RF 50 Ω AC req 2.35000000	0 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 MH	s	Auto Tun Center Fre 2.350000000 GF Start Fre 2.300000000 GF 2.400000000 GF 2.400000000 GF CF Ste 10.000000 MF Auto Ma
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Product Product <t< td=""><td>100 kHz</td><td>0 GHz PNO: Fast IFGain:Low</td><td>SENSE:INT Trig: Free Run #Atten: 40 dB</td><td>ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 MH</td><td>s 12:14:58 AMDec 13, 2019 TRACE 12 23 4 5 G TYPE MAMMAN DET P P P P P r11 2.391 5 GHz -48.917 dBm -22:43 dBm -22:43 dBm -22:43 dBm</td><td>Auto Tun Center Fre 2.350000000 GH 2.300000000 GH 2.400000000 GH 2.40000000 GH 10.000000 MH Auto Ma</td></t<>	100 kHz	0 GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 MH	s 12:14:58 AMDec 13, 2019 TRACE 12 23 4 5 G TYPE MAMMAN DET P P P P P r11 2.391 5 GHz -48.917 dBm -22:43 dBm -22:43 dBm -22:43 dBm	Auto Tun Center Fre 2.350000000 GH 2.300000000 GH 2.400000000 GH 2.40000000 GH 10.000000 MH Auto Ma
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Report No.: ZR/2019/B000404 Page: 39 of 72

		of SA								
	um Analyzer - Swep RF 50 Ω			SEN	ISE:INT		ALIGN AUTO	12:15:07 A	MDec 13, 2019	_
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Control Control <t< td=""><td>100 kHz</td><td>AC 00000 G P IF</td><td>Hz NO: Fast 🖵</td><td>SEN Trig: Free #Atten: 40</td><td>Run dB</td><td>Avg Type</td><td>SWeep status alignauto 2: Log-Pwr 10/10 M</td><td>1.600 ms</td><td>MDec 13, 2019 E 1 2 3 4 5 6 P P P P P P P IS5 GHz 04 dBm -22.43 dBm 1 1</td><td>Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH Stop Fre 26.50000000 GH</td></t<>	100 kHz	AC 00000 G P IF	Hz NO: Fast 🖵	SEN Trig: Free #Atten: 40	Run dB	Avg Type	SWeep status alignauto 2: Log-Pwr 10/10 M	1.600 ms	MDec 13, 2019 E 1 2 3 4 5 6 P P P P P P P IS5 GHz 04 dBm -22.43 dBm 1 1	Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH Stop Fre 26.50000000 GH
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> Report No.: ZR/2019/B000404 Page: 40 of 72

4.8.1.3 GFSK 1M_Highest Channel



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Report No.: ZR/2019/B000404 Page: 41 of 72

	RF 50 Ω 🚹 DC		SENSE:INT	ALIGNAUTO	12:17:49 AMDec 13, 2019	Frequency
Center F	req 15.075000 I	MHz PNO: Fast G	Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>50/50	TRACE 123456 TYPE MWWWWW DET PPPPP	Frequency
0 dB/div	Ref Offset 1 dB Ref 20.00 dBm	IFGain:Low	#Atten: 40 dB		Mkr1 150 kHz -41.447 dBm	Auto Tun
	Kei 20.00 übili					
10.0						Center Fre 15.075000 MH
0.00						Start Fre
10.0						150.000 kł
20.0						
20.0						Stop Fre 30.000000 MH
30.0					-32.49 dBm	00.000000 mil
40.0						CF Ste
						2.985000 MH <u>Auto</u> Ma
50.0						
60.0	alleletta dita di anti-	ana ana kao kata kuta k	ماري الترسيم التما أمتا ستناب ا	e a cara a materialmante destruit sátilata	later da salat, ite alaberti d	Freq Offs 0 H
70.0				heije stalen in die operspielige eksternelige bliede sta		
Start 150	kHz				Stop 30.00 MHz	
≉Res BW		#VBV	V 30 kHz		85.4 ms (3001 pts)	
#Res BW	10 kHz	#VBV	V 30 kHz		85.4 ms (3001 pts)	
FRes BW ISG Igilent Spectr V RL	10 kHz um Analyzer - Swept SA RF 50 Ω AC		V 30 KHZ	ALIGN AUTO	DC Coupled	Frequency
Res BW sg gilent Spectr g RL	10 KHZ um Analyzer - Swept SA	0 GHz PN0: Fast	SENSE:INT	STATUS	DC Coupled	Frequency
Res BW sg gilent Spectr RL Center F	10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000	0 GHz	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50	DC Coupled	
Res BW sg gilent Spectr RL Center F	10 kHz um Analyzer - Swept SA RF 50 Ω AC	0 GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50	DC Coupled	
Res BW sg gilent Spectr RL Center F	10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB	0 GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50	DC Coupled	Auto Tur Center Fre
Res BW sg gilent Spectr RL Center F	10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB	0 GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50	DC Coupled	Auto Tur Center Fre
Res BW sg gilent Spectr RL Center F	10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB	0 GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50	DC Coupled	Auto Tur Center Fre 1.165000000 Gł
Res BW gilent Spectra gilent Spectra Center F Center F 10.0 0.00	10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB	0 GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50	DC Coupled	Auto Tur Center Fre 1.16500000 GH Start Fre
Res BW a gilent Spectr RL Center F Conter F 10.0 10.0 10.0	10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB	0 GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50	DC Coupled	Auto Tur Center Fre 1.16500000 GH Start Fre
Res BW a gilent Spectr RL Center F Conter F 10.0 10.0 10.0	10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB	0 GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50	DC Coupled	Auto Tur Center Fre 1.16500000 GF Start Fre 30.00000 MF Stop Fre
#Res BW sa glent Spectr glent S	10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB	0 GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50	DC Coupled 12:18:10 AMDec 13, 2019 TRACE 12 23 4 5 0 TYPE MUMAY DET D P P P P P 1 2.210 34 GHz -46.786 dBm	Auto Tur Center Fre 1.16500000 GF Start Fre 30.00000 MF Stop Fre
Res BW gilent Spectr gilent Spectr G RL Center F Conter F	10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB	0 GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg[Hoid>50/50	DC Coupled 12:18:10 AMDec 13, 2019 TRACE 12 23 4 5 0 TYPE MUMAY DET D P P P P P 1 2.210 34 GHz -46.786 dBm	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.300000000 GH
Res BW gilent Spectr gilent Spectr G RL Center F Conter F	10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB	0 GHz PN0: Fast	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 Mikr	DC Coupled 12:18:10 AMDec 13, 2019 TRACE 12 3 4 5 6 TYPE M WWWWWW DET P P P P P 1 2.210 34 GHz -46.786 dBm -22.49 dBm	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.30000000 GH CF Ste 227.000000 MH
Res BW gilent Spectr gilent Spectr Code/div O	10 kHz um Analyzer - Swept SA RF 50 Ω AC req 1.16500000 Ref Offset 1 dB	0 GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>50/50 MKr	DC Coupled 12:18:10 AMDec 13, 2019 TRACE 12 23 4 5 0 TYPE MUMAY DET D P P P P P 1 2.210 34 GHz -46.786 dBm	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.30000000 GH CF Ste 227.000000 MH
G BW gjlent Spectr G gjlent Spectr C gjlent Spectr C CodE/div G O B/div O G <	10 kHz	0 GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>50/50 MKr	DC Coupled 12:18:10 AMDec 13, 2019 TRACE 12 3 4 5 6 TYPE M WWWWWW DET P P P P P 1 2.210 34 GHz -46.786 dBm -22.49 dBm	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.300000000 GH 2.30000000 GH 2.27.000000 MH Auto Ma
G BW gjlent Spectr G gjlent Spectr C G RL Conter F C Conter C	10 kHz	0 GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>50/50 MKr	DC Coupled 12:18:10 AMDec 13, 2019 TRACE 12 3 4 5 6 TYPE M WWWWWW DET P P P P P 1 2.210 34 GHz -46.786 dBm -22.49 dBm	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.300000000 GH 2.30000000 GH 2.27.000000 MH Auto Ma
#Res BW gilant Spectr gilant Spectr Center F 0 dB/div 0 0	10 kHz	0 GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>50/50 MKr	DC Coupled 12:18:10 AMDec 13, 2019 TRACE 12 3 4 5 6 TYPE M WWWWWW DET P P P P P 1 2.210 34 GHz -46.786 dBm -22.49 dBm	Auto Tur Center Fre 1.16500000 GH Start Fre 30.000000 MH Stop Fre 2.30000000 GH CF Ste 227.00000 MH
#Res BW gilent Spectr gilent Spectr gilent Spectr 0 d RL Conter F 0 0	10 kHz	0 GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>50/50 MKr	DC Coupled 12:18:10 AMDec 13, 2019 TRACE 12 3 4 5 6 TYPE M WWWWWW DET P P P P P 1 2.210 34 GHz -46.786 dBm -22.49 dBm	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.300000000 GH 2.30000000 GH 2.27.000000 MH Auto Ma

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Report No.: ZR/2019/B000404 Page: 42 of 72

ailant Spect	rum Analyzer - Sv	up of CA								
U RL	RF 50	Ω AC		SEN	ISE:INT		ALIGNAUTO	12:18:22 AF	4Dec 13, 2019	Frequency
enter F	req 2.3500	P	'NO: Fast 🖵	Trig: Free #Atten: 40		Avg Type Avg Hold:	:: Log-Pwr >200/200	TRAC TYF DE	E 123456 E M WWWWW T P P P P P P	ricqueriey
	D-608		Gain:Low	#Atten: 40	, ub		Mk	(r1 2.30		Auto Tur
) dB/div og	Ref Offset 1 Ref 20.00							-48.5	41 dBm	
										Center Fre
10.0										2.350000000 GI
3.00										
J.UU										Start Fr
0.0										2.30000000 G
0.0										
.0.0									-22.49 dBm	Stop Fr 2.400000000 G
0.0										2.40000000 G
0.0										CF Ste
.0.0	▲1									10.000000 M Auto M
0.0 UMANA	WWW.W	uly-hayapagelergi	williamotor	warang fait for wh	- Marina Contractor	all line has	when	Who developed	yhaddalaan	
i0.0										Freq Offs
.0.0										0
70.0										
								Stop 2.40	0000 CHz	
	000 GHz		#\/B\/	300 647			Sween 0	600 mc (1000 GH2	
	0000 GHz 100 kHz		#VBW	300 kHz			Sweep 9	.600 ms (1001 pts)	
Res BW	100 kHz	went SA	#VBW	300 kHz				.600 ms (1001 pts)	
Res BW sg gilent Spect	100 kHz rum Analyzer - So RF 50	Ω AC			ISE:INT		STATUS	.600 ms (1001 pts)	Frequency
Res BW 3G gilent Spect	100 kHz rum Analyzer - Sv	∝ ac '50000 Gi	Hz NO: Fast 😱	SEN	Run		STATUS	.600 ms (1001 pts)	Frequency
Res BW ig <mark>;ilent Spect</mark> RL	100 kHz rum Analyzer - So RF 50 req 2.4917	Ω AC 50000 GI P IF	Hz	SEN	Run	Avg Type	STATUS ALIGNAUTO 4: Log-Pwr >200/200	.600 ms (12:18:32 Af TRAC TYP DR .485 72	1001 pts) 4Dec 13, 2019 E 1 2 3 4 5 6 E MWWWW T P P P P P P 7 5 GHz	
Res BW ^{gilent Specto} RL enter F	100 kHz rum Analyzer - So RF 50	2 AC 50000 GI P IF	Hz NO: Fast 😱	SEN	Run	Avg Type	STATUS ALIGNAUTO 4: Log-Pwr >200/200	.600 ms (12:18:32 Af TRAC TYP DR .485 72	1001 pts) ^{4Dec 13, 2019 Е 1 2 3 4 5 6 Е МММММ т Р Р Р Р Р Р}	
Res BW ^{3G} gilent Specto RL enter F	100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1	2 AC 50000 GI P IF	Hz NO: Fast 😱	SEN	Run	Avg Type	STATUS ALIGNAUTO 4: Log-Pwr >200/200	.600 ms (12:18:32 Af TRAC TYP DR .485 72	1001 pts) 4Dec 13, 2019 E 1 2 3 4 5 6 E MWWWW T P P P P P P 7 5 GHz	Auto Tu
Res BW glient Spectr RL enter F o dB/div	100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1	2 AC 50000 GI P IF	Hz NO: Fast 😱	SEN	Run	Avg Type	STATUS ALIGNAUTO 4: Log-Pwr >200/200	.600 ms (12:18:32 Af TRAC TYP DR .485 72	1001 pts) 4Dec 13, 2019 E 1 2 3 4 5 6 E MWWWW T P P P P P P 7 5 GHz	Auto Tur Center Fr
Res BW ilent Spect RL center F 0 dB/div	100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1	2 AC 50000 GI P IF	Hz NO: Fast 😱	SEN	Run	Avg Type	STATUS ALIGNAUTO 4: Log-Pwr >200/200	.600 ms (12:18:32 Af TRAC TYP DR .485 72	1001 pts) 4Dec 13, 2019 E 1 2 3 4 5 6 E MWWWW T P P P P P P 7 5 GHz	Auto Tur Center Fr
Res BW iiient Spect RL enter F 0 dB/div	100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1	2 AC 50000 GI P IF	Hz NO: Fast 😱	SEN	Run	Avg Type	STATUS ALIGNAUTO 4: Log-Pwr >200/200	.600 ms (12:18:32 Af TRAC TYP DR .485 72	1001 pts) 4Dec 13, 2019 E 1 2 3 4 5 6 E MWWWW T P P P P P P 7 5 GHz	Auto Tu Center Fr 2.491750000 G Start Fr
Res BW is glient Spect RL enter F od 0 dB/div og 0.00	100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1	2 AC 50000 GI P IF	Hz NO: Fast 😱	SEN	Run	Avg Type	STATUS ALIGNAUTO 4: Log-Pwr >200/200	.600 ms (12:18:32 Af TRAC TYP DR .485 72	1001 pts) 4Dec 13, 2019 E 1 2 3 4 5 6 E MWWWW T P P P P P P 7 5 GHz	Auto Tur Center Fr 2.491750000 G Start Fra
Res BW ag glient Spect RL enter F 0 dB/div 0 0 0.0	100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1	2 AC 50000 GI P IF	Hz NO: Fast 😱	SEN	Run	Avg Type	STATUS ALIGNAUTO 4: Log-Pwr >200/200	.600 ms (12:18:32 Af TRAC TYP DR .485 72	1001 pts) 4Dec 13, 2019 E 12 2 4 5 6 M министр т Р Р Р Р Р Р 7 5 GHz 03 dBm	Auto Tur Center Fr 2.491750000 G Start Fr 2.483500000 G
Res BW ag glient Spect RL enter F 0 dB/div 0 0 0.0	100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1	2 AC 50000 GI P IF	Hz NO: Fast 😱	SEN	Run	Avg Type	STATUS ALIGNAUTO 4: Log-Pwr >200/200	.600 ms (12:18:32 Af TRAC TYP DR .485 72	1001 pts) 4Dec 13, 2019 E 1 2 3 4 5 6 E MWWWW T P P P P P P 7 5 GHz	Auto Tur Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr
Res BW Galarian Spectra RL OdB/div OdB	100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1	2 AC 50000 GI P IF	Hz NO: Fast 😱	SEN	Run	Avg Type	STATUS ALIGNAUTO 4: Log-Pwr >200/200	.600 ms (12:18:32 Af TRAC TYP DR .485 72	1001 pts) 4Dec 13, 2019 E 12 2 4 5 6 M министр т Р Р Р Р Р Р 7 5 GHz 03 dBm	Auto Tur Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz	2 AC 50000 GI P IF	Hz NO: Fast 😱	SEN	Run	Avg Type	STATUS ALIGNAUTO 4: Log-Pwr >200/200	.600 ms (12:18:32 Af TRAC TYP DR .485 72	1001 pts) 4Dec 13, 2019 E 12 2 4 5 6 M министр т Р Р Р Р Р Р 7 5 GHz 03 dBm	Auto Tur Center Fr 2.491750000 Gl Start Fr 2.483500000 Gl Stop Fr 2.500000000 Gl
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz rum Analyzer - So RF 50 req 2.4917 Ref Offset 1	2 AC 50000 GI P IF	Hz NO: Fast 😱	SEN	Run	Avg Type	STATUS ALIGNAUTO 4: Log-Pwr >200/200	.600 ms (12:18:32 Af TRAC TYP DR .485 72	1001 pts) 4Dec 13, 2019 E 12 2 4 5 6 M министр т Р Р Р Р Р Р 7 5 GHz 03 dBm	Auto Tur Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz	2 AC 50000 GH P B dB dB dB dB H C B H C C C C C C C C C C C C C C C	Hz NO: Fast 😱	SEN Trig: Free #Atten: 40		Avg Type Avg Hold:	ALIGNAUTO :: Log-Pwr >200/200 Mkr1 2	12:18:32 AI TRAG TVA 00 485 72: -47.90	4Dec 13, 2019 € 12, 2019 E 12, 2019 T 5 GHz 03 dBm -22 43 dBm	Auto Tur Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz	2 AC 50000 GH P B dB dB dB dB H C B H C C C C C C C C C C C C C C C	Hz Gain:Low	SEN Trig: Free #Atten: 40		Avg Type Avg Hold:	ALIGNAUTO :: Log-Pwr >200/200 Mkr1 2	12:18:32 AI TRAG TVA 00 485 72: -47.90	4Dec 13, 2019 € 12, 2019 E 12, 2019 T 5 GHz 03 dBm -22 43 dBm	Auto Tur Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G CF Sto 1.650000 M Auto M
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz	2 AC 50000 GH P B dB dB dB dB H C B H C C C C C C C C C C C C C C C	Hz Gain:Low	SEN Trig: Free #Atten: 40		Avg Type Avg Hold:	ALIGNAUTO :: Log-Pwr >200/200 Mkr1 2	12:18:32 AI TRAG TVA 00 485 72: -47.90	4Dec 13, 2019 € 12, 2019 E 12, 2019 T 5 GHz 03 dBm -22 43 dBm	Auto Tur Center Fr 2.491750000 G Start Fr 2.483500000 G Stop Fr 2.500000000 G CF Sto 1.650000 M Auto M
Res BW a gilent Spect RL RL CodB/div O G G G G G G G G G G G G G G G G G G	100 kHz	2 AC 50000 GH P B dB dB dB dB H C B H C C C C C C C C C C C C C C C	Hz Gain:Low	SEN Trig: Free #Atten: 40		Avg Type Avg Hold:	ALIGNAUTO :: Log-Pwr >200/200 Mkr1 2	12:18:32 AI TRAG TVA 00 485 72: -47.90	4Dec 13, 2019 € 12, 2019 E 12, 2019 T 5 GHz 03 dBm -22 43 dBm	Auto Tur Center Fr 2.491750000 Gl Start Fr 2.483500000 Gl Stop Fr 2.500000000 Gl CF Ste 1.650000 Ml Auto M
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz	2 AC 50000 GH P B dB dB dB dB H C B H C C C C C C C C C C C C C C C	Hz Gain:Low	SEN Trig: Free #Atten: 40		Avg Type Avg Hold:	status ALIGN AUTO I: Log-Pwr >200/200 Mkr1 2	12:18:32 AI 12:18:32 AI 178A 178A 178A 1797 179	4Dec 13, 2019 E 12, 2019 E 12, 2019 E 12, 2019 T 5 GHz 03 dBm 	Auto Tur Center Fr 2.491750000 Gl Start Fr 2.483500000 Gl Stop Fr 2.500000000 Gl CF Ste 1.650000 Ml Auto M
Res BW 33 gilent Spect RL RL CodB/div 99 10.0 90 10.0 90 10.0 90 10.0 90 10.0 90 10.0 90 10.0 90 10.0 90 10.0 90 10.0 <t< td=""><td>100 kHz</td><td>2 AC 50000 GH P B dB dB dB dB H C B H C C C C C C C C C C C C C C C</td><td>Hz Gain:Low</td><td>SEN Trig: Free #Atten: 40</td><td></td><td>Avg Type Avg Hold:</td><td>ALIGNAUTO :: Log-Pwr >200/200 Mkr1 2</td><td>12:18:32 AI TRAG TVA 00 485 72: -47.90</td><td>1001 pts)</td><td>Auto Tur Center Fre 2.491750000 Gł Start Fre 2.483500000 Gł Stop Fre 2.500000000 Gł CF Ste 1.650000 Mł</td></t<>	100 kHz	2 AC 50000 GH P B dB dB dB dB H C B H C C C C C C C C C C C C C C C	Hz Gain:Low	SEN Trig: Free #Atten: 40		Avg Type Avg Hold:	ALIGNAUTO :: Log-Pwr >200/200 Mkr1 2	12:18:32 AI TRAG TVA 00 485 72: -47.90	1001 pts)	Auto Tur Center Fre 2.491750000 Gł Start Fre 2.483500000 Gł Stop Fre 2.500000000 Gł CF Ste 1.650000 Mł

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Report No.: ZR/2019/B000404 Page: 43 of 72

Indian RF 50 Q. AC SENSE:INT ALIGNAUTO 12:19:05 AMDec 13, 20:9 Center Freq 14.500000000 GHz PN0: Fast Trig: Free Run Avg Type: Log-Pwr Trace Trace PN0: Fast Frig: Free Run Avg Type: Log-Pwr Trace Trace Trace Trace Ref Offset 1 dB Mkr1 26.479 GHz -38.678 dBm Auto Tu Log Center Free -38.678 dBm Center Free
Center Fred 14.300000000 GHZ PN0: Fast Difference Trig: Free Run Avg Hold: 10/10 Trig: Free Run Avg Hold: 10/10 Trig: Free Run Difference Trig: Free Run Avg Hold: 10/10 Trig: Free Run Difference Trig: Free Run Dif
Ref Offset 1 dB 10 dB/div Ref 20.00 dBm Log -38.678 dBm
-10.0 Start Fr 2.50000000 G
20.0 22.49 dbm
-40.0 -50.0 Wildland with a transfer of the device of the
60.0 Freq Offs
Start 2.50 GHz Stop 26.50 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.294 s (8001 pts)
#Res BW 100 km2 #VBW 300 km2 Sweep 2.294 5 (600 T prs) Msg status

4.8.1.4 GFSK 2M_Lowest Channel



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Report No.: ZR/2019/B000404 Page: 44 of 72

	RF 50 Ω 🧥 DC		SENSE:INT	ALIGN AUTO	12:21:33 AMDec 13, 2019	Fraguanau
enter Fr	eq 79.500 kHz	PNO: Wide 😱	Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>50/50	TRACE 123456 TYPE M WWWW DET P P P P P	Frequency
) dB/div	Ref Offset 1 dB Ref 0.00 dBm	IFGain:Low	#Atten: 26 dB		Mkr1 9.000 kHz -52.421 dBm	Auto Tur
						Center Fre
0.0						79.500 ki
0.0						Otert Fr
D.O						Start Fr 9.000 ki
D.O						
1					-43.36 dBm	Stop Fr 150.000 k
WULA	n -					CF Ste
D.O	when the second se	1.00				14.100 k Auto M
0.0	"U "	ՙ _՚ ՚՚ ^ՠ ՙՙ ^ՠ ՟՟֍ֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈֈ	wy.Mr. wy. wy. wy	in way way	Λ	
0.0					ᠰ᠘ᡔᢇ᠋ᡃᠯᡗᡀᢞᡀᠿᢩᢕᡗᡳᠩᡘᢧᢇᢪᡡ	Freq Offs 0
D.O						
					Oton 450.00 kills	
tart 9.00 Res BW		#VBW	3.0 kHz	Sween	Stop 150.00 kHz 134.8 ms (601 pts)	
		" • • •	010 1012	өмеер	194.8 113 (001 pts)	
G				-	DC Coupled	
<mark>jilent Spectru</mark> R L	u <mark>m Analyzer - Swept SA</mark> RF 50 Ω <u>A</u> DC		SENSE:INT	ALIGN AUTO	DC Coupled	Frequency
<mark>ilent Spectru</mark> R L	um Analyzer - Swept SA	Hz PNO: Fast 😱	SENSE:INT	STATUS	L DC Coupled	Frequency
ilent Spectro RL enter Fr	u <mark>m Analyzer - Swept SA</mark> RF 50 Ω <u>A</u> DC	Hz	SENSE:INT	ALIGN AUTO AVg Type: Log-Pwr	DC Coupled	
ilent Spectro RL enter Fr	um Analyzer - Swept SA RF 50 Q A DC req 15.075000 Mi Ref Offset 1 dB	Hz PNO: Fast 😱	SENSE:INT	ALIGN AUTO AVg Type: Log-Pwr	DC Coupled 12:21:55 AMDec 13, 2019 TRACE 12:34 5 6 TYPE MUNICIPAL DET PP P P P Mkr1 150 kHz	Auto Tu
ilent Spectru RL enter Fr I dB/div	um Analyzer - Swept SA RF 50 Q A DC req 15.075000 Mi Ref Offset 1 dB	Hz PNO: Fast 😱	SENSE:INT	ALIGN AUTO AVg Type: Log-Pwr	DC Coupled 12:21:55 AMDec 13, 2019 TRACE 12:34 5 6 TYPE MUNICIPAL DET PP P P P Mkr1 150 kHz	Auto Tu Center Fr
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dB/div	um Analyzer - Swept SA RF 50 Q A DC req 15.075000 Mi Ref Offset 1 dB	Hz PNO: Fast 😱	SENSE:INT	ALIGN AUTO AVg Type: Log-Pwr	DC Coupled 12:21:55 AMDec 13, 2019 TRACE 12:34 5 6 TYPE MUNICIPAL DET PP P P P Mkr1 150 kHz	Auto Tur Center Fra 15.075000 M Start Fra
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lient Spectri RL enter Fr d dB/div 0.0 0.0	um Analyzer - Swept SA RF 50 Q A DC req 15.075000 Mi Ref Offset 1 dB	Hz PNO: Fast 😱	SENSE:INT	ALIGN AUTO AVg Type: Log-Pwr	DC Coupled 12:21:55 AMDec 13, 2019 TRACE 12:34 5 6 TYPE MUNICIPAL DET PP P P P Mkr1 150 kHz	Frequency Auto Tur Center Fro 15.075000 Mi Start Fro 150.000 ki Stop Fro 30.000000 Mi
dE/div	um Analyzer - Swept SA RF 50 Q A DC req 15.075000 Mi Ref Offset 1 dB	Hz PNO: Fast 😱	SENSE:INT	ALIGN AUTO AVg Type: Log-Pwr	DC Coupled 12:21:55 AMDec 13, 2019 TRACE 12:34 5 6 TYPE MUNICIPAL DET PP P P P Mkr1 150 kHz	Auto Tur Center Fn 15.075000 M Start Fn 150.000 k Stop Fn 30.000000 M
Ilent Spectra RL dB/div 29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	um Analyzer - Swept SA RF 50 Q A DC req 15.075000 Mi Ref Offset 1 dB	Hz PNO: Fast 😱	SENSE:INT	ALIGN AUTO AVg Type: Log-Pwr	DC Coupled 12:21:55 AMDec 13, 2019 TRACE 12:34 5 6 TYPE MUNICIPAL DET PP P P P Mkr1 150 kHz	Auto Tur Center Fro 15.075000 M Start Fro 150.000 ki Stop Fro
dB/div	um Analyzer - Swept SA RF 50 Q A DC req 15.075000 Mi Ref Offset 1 dB	Hz PNO: Fast 😱	SENSE:INT	ALIGN AUTO AVg Type: Log-Pwr	DC Coupled 12:21:55 AMDec 13, 2019 TRACE 12:34 5 6 TYPE MUNICIPAL DET PP P P P Mkr1 150 kHz	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M 2.985000 M Auto M
dB/div	Im Analyzer - Swept SA RF S0 2 ▲ DC eq 15.075000 MI Ref Offset 1 dB Ref 20.00 dBm	Hz PN0: Fast	Servse:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	▲ DC Coupled	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M 2.985000 M Auto M
dB/div gB/div gg a.0 a.0 a.0 a.0 a.0 a.0 a.0 a.0	Im Analyzer - Swept SA RF S0 2 ▲ DC eq 15.075000 MI Ref Offset 1 dB Ref 20.00 dBm	Hz PN0: Fast	Servse:INT	ALIGN AUTO AVg Type: Log-Pwr	▲ DC Coupled	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M 2.985000 M Auto M
dE/div	um Analyzer - Swept SA RF S0 2 A DC eq 15.075000 Mi Ref Offset 1 dB Ref 20.00 dBm 	Hz PN0: Fast	Servse:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	▲ DC Coupled	Auto Tur Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF Ste 2.985000 M

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Report No.: ZR/2019/B000404 Page: 45 of 72

ailant Coost	rum Analyzer - Swe	-4.64								
U RL	RF 50 Ω	AC		SEN	NSE:INT			12:22:17 A	MDec 13, 2019	F
Center F	req 1.16500	F	'NO: Fast 😱	Trig: Free		Avg Type Avg Hold:	e: Log-Pwr :>50/50	TRAC TYI DI	ET P P P P P P	Frequency
			Gain:Low	#Atten: 40	J d 🗅		Mkr		58 GHz	Auto Tur
0 dB/div	Ref Offset 1 d Ref 20.00 d							-46.1	06 dBm	
. ^{og}										
10.0										Center Fre 1.165000000 GH
										1.1000000000
0.00										
										Start Fre 30.000000 MH
10.0										00.000000
20.0										Oton Ere
									-23.36 dBm	2.30000000 GH
30.0										2.000000000000
										CF Ste
40.0										227.000000 MH
50.0	and the second	at a spectrum	terte de de la Deve	na gutanta da ta	لللام وخليتين الم	a patiblican la b	and the set of a set			<u>Auto</u> Ma
and a second star of the	a dealer i dealer a bei gescheiden i die	within the second states of the		allanda kali kiling	a and a second	te almanyarrah bili da				Freq Offs
60.0										0H
70.0										
, U.U										
Mart 20 h								Ctop 1	200 00-	
Start 30 N #Res BW	∕IHz 100 kHz		#VBW	300 kHz			Sweep 2	2 Stop 17.1 ms (.300 GHz 8001 pts)	
			#VBW	300 kHz			Sweep 2	17.1 ms (.300 GHz (8001 pts)	
FRes BW	100 kHz	pt SÅ	#VBW	300 kHz				17.1 ms (.300 GHz (8001 pts)	
Res BW ISG Igilent Specto V RL	100 kHz rum Analyzer - Swe RF 50 Ω	AC			NSE:INT		STATUS	17.1 ms ((8001 pts)	Frequency
Res BW sg gilent Specto 7 RL	100 kHz rum Analyzer - Swe	AC 0000 GI	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT		STATUS	17.1 ms ((8001 pts)	Frequency
Res BW sg gilent Specto 7 RL	100 kHz rum Analyzer - Swe RF 50 ຊ req 2.35000	AC 0000 GI F IF	Hz	SEM	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (12:22:29 Al TRAC TYI D	MDec 13, 2019 E 1 2 3 4 5 6 M M M M M M M M M M M M M M M M M M M	
Res BW gilent Spectr RL Center F 0 dB/div	100 kHz rum Analyzer - Swe RF 50 Ω	AC 0000 GI F IF	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (12:22:29 A TRAC TYN D r1 2.40	(8001 pts)	
Res BW sg gilent Spectr / RL / Center F	100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d	AC 0000 GI F IF	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (12:22:29 A TRAC TYN D r1 2.40	MDec 13, 2019 = 12 3 4 5 6 M P P P P P P 0 0 GHz	Auto Tur
Res BW sg gilent Spectr RL Center F	100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d	AC 0000 GI F IF	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (12:22:29 A TRAC TYN D r1 2.40	MDec 13, 2019 = 12 3 4 5 6 M P P P P P P 0 0 GHz	Auto Tur Center Fre
Res BW sg gilent Spectr RL center F 0 dB/div	100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d	AC 0000 GI F IF	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (12:22:29 A TRAC TYN D r1 2.40	MDec 13, 2019 = 12 3 4 5 6 M P P P P P P 0 0 GHz	Auto Tur Center Fre
Res BW sg gilent Spect RL Center F	100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d	AC 0000 GI F IF	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (12:22:29 A TRAC TYN D r1 2.40	MDec 13, 2019 = 12 3 4 5 6 M P P P P P P 0 0 GHz	Auto Tur Center Fre 2.35000000 GH
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Res BW gilent Spectr gilent Spectr Center F 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d	AC 0000 GI F IF	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (12:22:29 A TRAC TYN D r1 2.40	MDec 13, 2019 = 12 3 4 5 6 M P P P P P P 0 0 GHz	Auto Tur Center Fre
Res BW s gilent Spect RL RL OdB/div OdB/div 00 00 00 00 00 00 00 00 00 00 00 00 00	100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d	AC 0000 GI F IF	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (12:22:29 A TRAC TYN D r1 2.40	8001 pts)	Auto Tur Center Fre 2.35000000 GH Start Fre 2.30000000 GH
c dB/div 0 dB/div 0 dB/div 0 d2/div	100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d	AC 0000 GI F IF	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (12:22:29 A TRAC TYN D r1 2.40	MDec 13, 2019 = 12 3 4 5 6 M P P P P P P 0 0 GHz	Auto Tur Center Fre 2.35000000 GH Start Fre
Res BW s gilent Spectr gilent Spectr RL Center F	100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d	AC 0000 GI F IF	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (12:22:29 A TRAC TYN D r1 2.40	8001 pts)	Auto Tur Center Fre 2.35000000 GH Start Fre 2.30000000 GH Stop Fre
Res BW gilent Spectr gilent Spectr RL Center F	100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d	AC 0000 GI F IF	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (12:22:29 A TRAC TYN D r1 2.40	8001 pts)	Auto Tur Center Fre 2.350000000 GH Start Fre 2.300000000 GH 2.400000000 GH
	100 kHz rum Analyzer - Swe RF 50 Q req 2.350000 Ref Offset 1 d	AC 0000 GI F IF	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (12:22:29 A TRAC TYN D r1 2.40	8001 pts)	Auto Tur Center Fre 2.350000000 GH Start Fre 2.300000000 GH 2.400000000 GH CF Ste 10.000000 MH
Res BW gilent Spectr gilent Spectr RL RL Center F 0 dB/div 9 10.0 9 10.0 9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	100 kHz	B B B B B B B B B B B B B B B B B B B	HZ NO: Fast Gain:Low	Trig: Free #Atten: 40	NSE:INT	Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr >200/200 MIK	17.1 ms (12:22:29 Al TRAG TY U TT 2.400 -34.0	8001 pts)	Auto Tur Center Fre 2.350000000 GH Start Fre 2.300000000 GH 2.400000000 GH
Res BW gilent Spectric gilent Spectric RL RL Center F 0 dB/div 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	100 kHz	AC 0000 GI F IF	HZ NO: Fast Gain:Low	Trig: Free #Atten: 40	NSE:INT	Avg Type	ALIGNAUTO 2: Log-Pwr >200/200 MIK	17.1 ms (12:22:29 Al TRAG TY U TT 2.400 -34.0	8001 pts)	Auto Tur Center Fre 2.350000000 GH 2.30000000 GH 2.400000000 GH 2.40000000 GH CF Ste 10.00000 MH Auto Ma
Res BW gilent Spectric gilent Spectric RL RL Center F 0 dB/div 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	100 kHz	B B B B B B B B B B B B B B B B B B B	HZ NO: Fast Gain:Low	Trig: Free #Atten: 40	NSE:INT	Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr >200/200 MIK	17.1 ms (12:22:29 Al TRAG TY U TT 2.400 -34.0	8001 pts)	Auto Tur Center Fre 2.350000000 GH 2.30000000 GH 2.40000000 GH 2.40000000 GH 0.000000 MH Auto Ma Freq Offso
Image: constraint of the second sec	100 kHz	B B B B B B B B B B B B B B B B B B B	HZ NO: Fast Gain:Low	Trig: Free #Atten: 40	NSE:INT	Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr >200/200 MIK	17.1 ms (12:22:29 Al TRAG TY U TT 2.400 -34.0	8001 pts)	Auto Tur Center Fre 2.350000000 GH Start Fre 2.300000000 GH 2.400000000 GH CF Ste 10.000000 MH
FRes BW	100 kHz	B B B B B B B B B B B B B B B B B B B	HZ NO: Fast Gain:Low	Trig: Free #Atten: 40	NSE:INT	Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr >200/200 MIK	17.1 ms (12:22:29 Al TRAG TY U TT 2.400 -34.0	8001 pts)	Auto Tur Center Fre 2.350000000 GH 2.30000000 GH 2.40000000 GH 2.40000000 GH 0.000000 MH Auto Ma Freq Offso
Ges BW General Spectra gilent Spectra RL gilent Spectra RL Content F General Spectra	100 kHz	B B B B B B B B B B B B B B B B B B B	HZ NO: Fast Gain:Low	Trig: Free #Atten: 40	NSE:INT	Avg Type Avg Hold:	ALION AUTO 2: Log-Pwr >200/200 MI k	12:22:29 A TRAC	8001 pts)	Auto Tur Center Fre 2.350000000 GH 2.30000000 GH 2.40000000 GH 2.40000000 GH 0.000000 MH Auto Ma Freq Offso
#Res BW scient Spectric gilent Spectric gilent Spectric 0 dB/div 0 0	100 kHz	B B B B B B B B B B B B B B B B B B B	Hz NO: Fast Gain:Low	Trig: Free #Atten: 40	se:INT	Avg Type Avg Hold:	ALION AUTO 2: Log-Pwr >200/200 MI k	17.1 ms (12:22:29 A TRAC T	8001 pts)	Auto Tur Center Fre 2.350000000 GH 2.30000000 GH 2.40000000 GH 2.40000000 GH 0.000000 MH Auto Ma Freq Offso

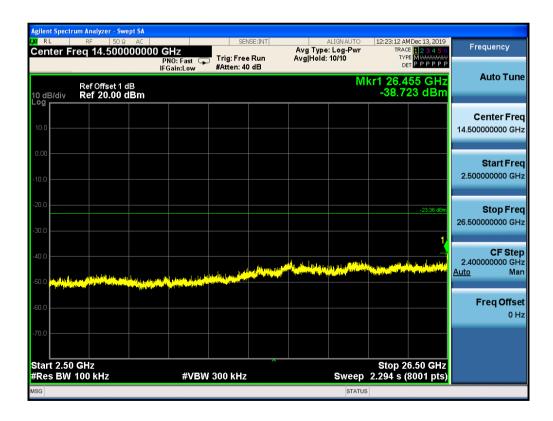
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Report No.: ZR/2019/B000404 Page: 46 of 72

Agilent Spectr	um Analyzer - Swe RF 50 Ω	pt SA AC			ISE:INT		ALIGNAUTO	12:22:20 A	ADec 13, 2019	
	req 2.49175	0000 GH	¦Z NO: Fast ⊂⊊ Gain:Low		Run		: Log-Pwr			Frequency
10 dB/div	Ref Offset 1 d Ref 20.00 d	в	Sam:Low	Pricen. 4			Mkr1 2	499 97	2 5 GHz 44 dBm	Auto Tune
10.0										Center Fred 2.491750000 GH:
-10.00										Start Free 2.483500000 GH:
-20.0									-23.36 dBm	Stop Free 2.500000000 GH
40.0	«/Wmgtondug/waya	᠇᠕ᡩᡃ᠘ᢧ᠕ᡃᡨᢗ	mboord	postiliopartion	ᡊᢧ ^ᡍ ᠃ᡪᡗᡡᢧ᠊ᠬᠬ	JANN MANUMAR	᠕ᢛᡪᢧ᠋᠆ᡰᠥ᠆ᠰᡝ	مالم العوالي الم	1 vernalization	CF Stej 1.650000 MH <u>Auto</u> Ma
-60.0										Freq Offse 0 H
Start 2.48 #Res BW	3500 GHz 100 kHz		#VBW	300 kHz				top 2.500 1.600 ms	0000 GHz (601 pts)	
ISG							STATUS			



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Report No.: ZR/2019/B000404 Page: 47 of 72





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Report No.: ZR/2019/B000404 Page: 48 of 72

gilent Spectr RL	RF 50 Ω			SEN	VSE:INT		ALIGN AUTO	12:26:17 A	MDec 13, 2019	Frequency
enter F	req 15.0750	P	NO: Fast 🖵	Trig: Free		Avg Type Avg Hold:	e: Log-Pwr :>50/50	TRAC TY	ETPPPPP	Trequency
	B (98 / /		Gain:Low	#Atten: 40	J d D				150 kHz	Auto Tui
0 dB/div	Ref Offset 1 (Ref 20.00 (dBm							15 dBm	
°g										Center Fre
10.0										15.075000 Mi
.00										Start Fre
10.0										150.000 ki
20.0										Stop Fre
30.0									-32.39 dBm	30.000000 M
1									-02.00 ubii	05.04
40.0 🛌										CF Ste 2.985000 Mi
50.0										<u>Auto</u> M
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70.0	an a			and the second second						
0.0										
tart 150								Stop 3	0.00 MHz	
tart 150 Res BW			#VBW	/ 30 kHz			Sweep 2		0.00 MHz (3001 pts)	
			#VBW	/ 30 kHz					3001 pts)	
Res BW	10 kHz um Analyzer - Sw		#VBW				STATUS	85.4 ms (3001 pts) upled	
Res BW ^{5G} gilent Spectr	10 kHz	AC 00000 GI			NSE:INT	Avg Type	STATUS ALIGNAUTO	85.4 ms (DC Cou 12:26:39 A TRAC	3001 pts) upled MDec 13, 2019	Frequency
Res BW ^{5G} gilent Spectr	10 kHz um Analyzer - Sw RF 50 Q	AC 00000 GI			e Run		STATUS ALIGNAUTO	85.4 ms (DC Cou 12:26:39 A TRAC	(3001 pts) upled MDec 13, 2019	
Res BW gilent Spectr RL Center F	10 kHz um Analyzer - Sw RF 50 Ω req 1.16500	AC DOOOOO GH IF dB	−IZ NO: Fast ⊆) Trig: Free	e Run	Avg Type	ALIGNAUTO :: Log-Pwr >50/50	85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079	3001 pts) apled MDec 13, 2019 E 1 2 3 4 5 6 M M M M M M P P P P P P 53 GHz	Frequency Auto Tur
Res BW ^{5G} gilent Spectr	10 kHz um Analyzer - Sw RF 50 Ω req 1.16500	AC DOOOOO GH IF dB	−IZ NO: Fast ⊆) Trig: Free	e Run	Avg Type	ALIGNAUTO :: Log-Pwr >50/50	85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079	3001 pts) upled MDec 13, 2019 E 1 2 3 4 5 6 MWWWWW P P P P P P	
Res BW gilent Spectr RL Center F 0 dB/div	10 kHz um Analyzer - Sw RF 50 Ω req 1.16500	AC DOOOOO GH IF dB	−IZ NO: Fast ⊆) Trig: Free	e Run	Avg Type	ALIGNAUTO :: Log-Pwr >50/50	85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079	3001 pts) apled MDec 13, 2019 E 1 2 3 4 5 6 M M M M M M P P P P P P 53 GHz	
Res BW gilent Spectr RL Center F	10 kHz um Analyzer - Sw RF 50 Ω req 1.16500	AC DOOOOO GH IF dB	−IZ NO: Fast ⊆) Trig: Free	e Run	Avg Type	ALIGNAUTO :: Log-Pwr >50/50	85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079	3001 pts) apled MDec 13, 2019 E 1 2 3 4 5 6 M M M M M M P P P P P P 53 GHz	Auto Tur Center Fra
Res BW gilent Spectr RL Center F 0 dB/div	10 kHz um Analyzer - Sw RF 50 Ω req 1.16500	AC DOOOOO GH IF dB	−IZ NO: Fast ⊆) Trig: Free	e Run	Avg Type	ALIGNAUTO :: Log-Pwr >50/50	85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079	3001 pts) apled MDec 13, 2019 E 1 2 3 4 5 6 M M M M M M P P P P P P 53 GHz	Auto Tur Center Fra
Res BW adjuint Spectra RL Conter F 0 dB/div 0 dB/div	10 kHz um Analyzer - Sw RF 50 Ω req 1.16500	AC DOOOOO GH IF dB	−IZ NO: Fast ⊆) Trig: Free	e Run	Avg Type	ALIGNAUTO :: Log-Pwr >50/50	85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079	3001 pts) apled MDec 13, 2019 E 1 2 3 4 5 6 M M M M M M P P P P P P 53 GHz	Auto Tur Center Fra 1.16500000 Gi Start Fra
Res BW adjuint Spectra RL Conter F 0 dB/div 0 dB/div	10 kHz um Analyzer - Sw RF 50 Ω req 1.16500	AC DOOOOO GH IF dB	−IZ NO: Fast ⊆) Trig: Free	e Run	Avg Type	ALIGNAUTO :: Log-Pwr >50/50	85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079	3001 pts) apled MDec 13, 2019 E 1 2 3 4 5 6 M M M M M M P P P P P P 53 GHz	Auto Tui
Res BW sc gilent Spectr RL center F	10 kHz um Analyzer - Sw RF 50 Ω req 1.16500	AC DOOOOO GH IF dB	−IZ NO: Fast ⊆) Trig: Free	e Run	Avg Type	ALIGNAUTO :: Log-Pwr >50/50	85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079	(3001 pts) apled (3001 pts) (3001	Auto Tur Center Fr 1.16500000 G Start Fr 30.000000 M
Res BW sc gilent Spectr RL enter F 0 dB/div 0 dB/div	10 kHz um Analyzer - Sw RF 50 Ω req 1.16500	AC DOOOOO GH IF dB	−IZ NO: Fast ⊆) Trig: Free	e Run	Avg Type	ALIGNAUTO :: Log-Pwr >50/50	85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079	3001 pts) apled MDec 13, 2019 E 1 2 3 4 5 6 M M M M M M P P P P P P 53 GHz	Auto Tur Center Fr 1.16500000 G Start Fr 30.000000 M Stop Fr
Res BW sc gilent Spectr RL center F	10 kHz um Analyzer - Sw RF 50 Ω req 1.16500	AC DOOOOO GH IF dB	−IZ NO: Fast ⊆) Trig: Free	e Run	Avg Type	ALIGNAUTO :: Log-Pwr >50/50	85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079	(3001 pts) apled (3001 pts) (3001	Auto Tur Center Fr 1.16500000 G Start Fr 30.000000 M Stop Fr
Res BW aa gilent Spectr RL RL Conter F	10 kHz um Analyzer - Sw RF 50 Ω req 1.16500	AC DOOOOO GH IF dB	−IZ NO: Fast ⊆) Trig: Free	e Run	Avg Type	ALIGNAUTO :: Log-Pwr >50/50	85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079	(3001 pts) apled (3001 pts) (3001	Auto Tur Center Fr 1.165000000 Gi Start Fr 30.000000 Mi Stop Fr 2.300000000 Gi
Res BW aa gilent Spectr RL RL CodB/div	10 kHz um Analyzer - Sw RF 50 Ω req 1.16500	AC DOOOOO GH IF dB	−IZ NO: Fast ⊆) Trig: Free	e Run	Avg Type	ALIGNAUTO :: Log-Pwr >50/50	85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079	(3001 pts) apled (3001 pts) (3001	Auto Tur Center Fra 1.16500000 Gl Start Fra 30.000000 Ml Stop Fra 2.30000000 Gl CF Ste 227.000000 Ml
Res BW 3G gilent Spectr RL RL CodB/div Og Og 10.0 00 00 00 00 00 00 00 00 00 00 00	10 kHz	AC P P B B B B B B B B B B B B B B B B B	Hz NO: Fast Gain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold	ALION AUTO E: Log-Pwr >50/50 Mkr	85.4 ms (DC Cou 12:26:39 A TRAC TY D 1 2.079	(3001 pts) apled MDec 13,2019 Ef 1 2 3 4 5 6 MDec 13,2019 F 2 3 6 F 2 3 6 MDec 13,2019 F 2 3 7	Auto Tur Center Fra 1.16500000 Gl Start Fra 30.000000 Ml Stop Fra 2.30000000 Gl CF Ste 227.000000 Ml
O dB/div 0 dB/div 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 kHz um Analyzer - Sw RF 50 Ω req 1.16500	AC P P B B B B B B B B B B B B B B B B B	Hz NO: Fast Gain:Low	SEP Trig: Free #Atten: 40		Avg Type	ALION AUTO E: Log-Pwr >50/50 Mkr	85.4 ms (DC Color 12:26:39 A TRAI TY 12:079 -46.6	(3001 pts) apled MDec 13,2019 Ef 1 2 3 4 5 6 MDec 13,2019 F 2 3 6 F 2 3 6 MDec 13,2019 F 2 3 7	Auto Tur Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF Sto 227.000000 M Auto M
Res BW 3G gilent Spectr RL RL CodB/div Og Og 10.0 00 00 00 00 00 00 00 00 00 00 00	10 kHz	AC P P B B B B B B B B B B B B B B B B B	Hz NO: Fast Gain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold	ALION AUTO E: Log-Pwr >50/50 Mkr	85.4 ms (DC Color 12:26:39 A TRAI TY 12:079 -46.6	(3001 pts) apled MDec 13,2019 Ef 1 2 3 4 5 6 MDec 13,2019 F 2 3 6 F 2 3 6 MDec 13,2019 F 2 3 7	Auto Tur Center Fr 1.165000000 G Start Fr 30.000000 M Stop Fr 2.30000000 G CF Sto 227.000000 M Auto M
O dB/div 0 dB/div 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 kHz	AC P P B B B B B B B B B B B B B B B B B	Hz NO: Fast Gain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold	ALION AUTO E: Log-Pwr >50/50 Mkr	85.4 ms (DC Color 12:26:39 A TRAI TY 12:079 -46.6	(3001 pts) apled MDec 13,2019 Ef 1 2 3 4 5 6 MDec 13,2019 F 2 3 6 F 2 3 6 MDec 13,2019 F 2 3 7	Auto Tur Center Fra 1.16500000 Gl Start Fra 30.000000 Ml Stop Fra 2.30000000 Gl CF Ste 227.000000 Ml
Res BW 33	10 kHz	AC P P B B B B B B B B B B B B B B B B B	Hz NO: Fast Gain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold	ALION AUTO E: Log-Pwr >50/50 Mkr	85.4 ms (DC Color 12:26:39 A TRAI TY 12:079 -46.6	(3001 pts) apled MDec 13,2019 Ef 1 2 3 4 5 6 MDec 13,2019 F 2 3 6 F 2 3 6 MDec 13,2019 F 2 3 7	Auto Tur Center Fra 1.165000000 Gl Start Fra 30.000000 Ml Stop Fra 2.300000000 Gl CF Sta 227.000000 Ml Auto M
Res BW 33	10 kHz	AC P P B B B B B B B B B B B B B B B B B	Hz NO: Fast Gain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold	ALION AUTO E: Log-Pwr >50/50 Mkr	85.4 ms (DC Color 12:26:39 A TRA TRA TRA 12:26:39 A 12:26:39 A 12:26:	(3001 pts) apled MDec 13,2019 Ef 1 2 3 4 5 6 MDec 13,2019 F 2 3 6 F 2 3 6 MDec 13,2019 F 2 3 7	Auto Tur Center Fra 1.165000000 Gl Start Fra 30.000000 Ml Stop Fra 2.300000000 Gl CF Sta 227.000000 Ml Auto M

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Report No.: ZR/2019/B000404 Page: 49 of 72

CI RL	rum Analyzer - Swept SA RF 50 Ω AC		SENSE:INT			6:51 AMDec 13, 2019	Erequency
enter F	req 2.35000000	PNO: Fast 🖵	Trig: Free Run	Avg Type: L Avg Hold:>20		TRACE 1 2 3 4 5 6 TYPE M WWWW DET P P P P P P	Frequency
		IFGain:Low	#Atten: 40 dB		Mkr1.2	.313 7 GHz	Auto Tur
0 dB/div og r	Ref Offset 1 dB Ref 20.00 dBm				-4	8.567 dBm	
^{og}							
10.0							Center Fre
10.0							2.350000000 GI
0.00							
							Start Fre
10.0							2.30000000 GI
20.0						-22.39 dBm	Stop Fre
							2.40000000 G
40.0							CF Ste 10.000000 M
	. ∳' . .						<u>Auto</u> M
^{50.0} Wryp	soldpoler refreshington of the	with	and an all more presentations and	www.wp.ill	when white where w	wyrallylpairfilliplatelydau	
50.0							Freq Offs
							01
70.0							
	0000 GHz				Stop	2.40000 GHz	
	100 kHz	#VBW	300 kHz	Sw		ms (1001 pts)	
ISG					STATUS		
	rum Analyzer - Swept SA RF 50 Ω AC		SENSE:INT	ALIC		7:00 AMDec 13, 2019	
	req 2.491750000	GHz		Avg Type: Lo Avg Hold:>20	og-Pwr	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P P	Frequency
		PNO: Fast 🖵			007200		
		IFGain:Low	#Atten: 40 dB			DET PPPPP	
	Ref Offset 1 dB	IFGain:Low	#Atten: 40 dB	N	1kr1 2.493	922 5 GHz	
0 dB/div og	Ref Offset 1 dB Ref 20.00 dBm	IFGain:Low	#Atten: 40 dB	N	1kr1 2.493 -4		
odB/div	Ref Offset 1 dB Ref 20.00 dBm	IFGain:Low	#Atten: 40 dB	N	1kr1 2.493 -4	922 5 GHz	Auto Tui
	Ref Offset 1 dB Ref 20.00 dBm	IFGain:Low	#Atten: 40 dB	N N	1kr1 2.493 -4	922 5 GHz	Auto Tur Center Fre
10.0	Ref Offset 1 dB Ref 20.00 dBm	IFGain:Low	#Atten: 40 dB	M	1kr1 2.493 -4	922 5 GHz	Auto Tur Center Fre
10.0	Ref Offset 1 dB Ref 20.00 dBm	IFGain:Low	#Atten: 40 dB	M	1kr1 2.493 -4	922 5 GHz	Auto Tur Center Fre 2.491750000 Gi
0.00	Ref Offset 1 dB Ref 20.00 dBm	IFGain:Low	#Atten: 4U dB	M	1kr1 2.493 -4	922 5 GHz	Auto Tur Center Fra 2.491750000 Gi Start Fra
0.00	Ref Offset 1 dB Ref 20.00 dBm	IFGain:Low	#Atten: 40 dB		1kr1 2.493 -4	922 5 GHz	Auto Tur Center Fra 2.491750000 Gi Start Fra
10.0	Ref Offset 1 dB Ref 20.00 dBm	IFGain:Low			1kr1 2.493 -4	922 5 GHz	Auto Tur Center Fro 2.491750000 Gl Start Fro 2.483500000 Gl
10.0 0.00 10.0 20.0	Ref Offset 1 dB Ref 20.00 dBm	IFGain:Low			1kr1 2.493 -4	922 5 GHz 8.598 dBm	Auto Tur Center Fro 2.491750000 Gi Start Fro 2.483500000 Gi Stop Fro
10.0 0.00 10.0 20.0	Ref Offset 1 dB Ref 20.00 dBm	IFGain:Low			Ikr1 2.493 -4	922 5 GHz 8.598 dBm	Auto Tur Center Fro 2.491750000 Gi Start Fro 2.483500000 Gi Stop Fro
10.0 0.00 10.0 20.0 30.0	Ref Offset 1 dB Ref 20.00 dBm	IFGain:Low			Ikr1 2.493 -4	922 5 GHz 8.598 dBm	Auto Tur Center Fro 2.491750000 Gi Start Fro 2.483500000 Gi Stop Fro 2.500000000 Gi
10.0 0.00 10.0 20.0 30.0	Ref Offset 1 dB Ref 20.00 dBm	IFGain:Low		M	1kr1 2.493 -4	922 5 GHz 8.598 dBm	Auto Tur Center Fro 2.491750000 Gi Start Fro 2.483500000 Gi Stop Fro 2.500000000 Gi CF Ste 1.650000 Mi
	Ref Offset 1 dB Ref 20.00 dBm			↓ 1	-4	922 5 GHz 18.598 dBm -22.39 dBm	Auto Tur Center Fro 2.491750000 Gi Start Fro 2.483500000 Gi Stop Fro 2.500000000 Gi CF Ste 1.650000 Mi
10.0	Ref 20.00 dBm			↓ 1	-4	922 5 GHz 18.598 dBm -22.39 dBm	Auto Tur Center Fro 2.491750000 Gi Start Fro 2.483500000 Gi Stop Fro 2.500000000 Gi CF Sto 1.650000 Mi Auto Mi
10.0	Ref 20.00 dBm			↓ 1	-4	922 5 GHz 18.598 dBm -22.39 dBm	Auto Tur Center Fro 2.491750000 Gi Start Fro 2.483500000 Gi Stop Fro 2.500000000 Gi CF Sto 1.650000 Mi <u>Auto Mi</u>
10.0	Ref 20.00 dBm			↓ 1	-4	922 5 GHz 18.598 dBm -22.39 dBm	Auto Tur Center Fro 2.491750000 Gi Start Fro 2.483500000 Gi Stop Fro 2.500000000 Gi CF Sto 1.650000 Mi <u>Auto Mi</u>
10.0	Ref 20.00 dBm			↓ 1	-4	922 5 GHz 18.598 dBm -22.39 dBm	Auto Tur Center Fre 2.491750000 Gł Start Fre 2.483500000 Gł Stop Fre 2.500000000 Gł CF Ste 1.650000 Mł Auto Mł
10.0 0.00 10.0 20.0 30.0 50.0	Ref 20.00 dBm			↓ 1	-4	922 5 GHz 8.598 dBm 	Auto Tur Center Fre 2.491750000 Gł Start Fre 2.483500000 Gł Stop Fre 2.500000000 Gł CF Ste 1.650000 Mł Auto Mł
60.0 70.0 Start 2.48	Ref 20.00 dBm				4	922 5 GHz 18.598 dBm -22.39 dBm	Auto Tur Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH CF Ste 1.650000 MH



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Report No.: ZR/2019/B000404 Page: 50 of 72

Agilent Spectrum Analyzer - Swept SA							
🕅 RL RF 50Ω AC Center Freg 14.500000000		NSE:INT	Avg Type:	LIGNAUTO	TRACI	Dec 13, 2019	Frequency
	PNO: Fast Trig: Free IFGain:Low #Atten: 40		Avg Hold:		TYP	M WWWWW PPPPPP	
Ref Offset 1 dB				M	kr1 26.4		Auto Tune
10 dB/div Ref 20.00 dBm					-37.98	51 dBm	
							Center Freq
10.0							14.500000000 GHz
0.00							Start Freq
-10.0							2.500000000 GHz
-20.0						-22.39 dBm	Stop Freq
-30.0							26.50000000 GHz
00.0						1	
-40.0		1.4		يريد المراجع	la, Libratha, Bela Alianda	المطلبة بالمعادية	CF Step 2.40000000 GHz
-40.0	المراجعة والمعالية التقفية والتعالي من عام العادية						<u>Auto</u> Man
-60.0							Freq Offset
							0 Hz
-70.0							
Start 2.50 GHz #Res BW 100 kHz	#VBW 300 kHz			Swoon	Stop 20 2.294 s (8	6.50 GHz	
MSG	#VBW 500 KHZ			Sweep		soor pis)	

4.8.1.6 GFSK 2M_Highest Channel



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Report No.: ZR/2019/B000404 Page: 51 of 72

	RF 50 Q 🥼 D		SENSE:IN		ALIGN AUTO	10:35:26 AM	4Nov 20, 2019	Frequency
enter F	req 79.500 kH	IZ PNO: Wide IFGain:Lov			e: Log-Pwr d:>50/50	TYF	E 123456 E MWW/MWW T P P P P P P	
0 dB/div	Ref Offset 1 dB Ref 0.00 dBm				N	lkr1 10.1		Auto Tur
^{og}								Center Fre
0.0								79.500 ki
.0.0								
								Start Fr
0.0								9.000 k
0.0							-42.96 dBm	Stop Fr
0.0 1								150.000 k
"Wh	Б. п							CESt
0.0	Warder Warder Contraction	ſ~	alla and a contraction of the co					CF St 14.100 k
0.0		TT MUNICAL	man all	. A.				<u>Auto</u> M
0.0			~ر/ <i>الأم</i> ال .	ind wither fullinge	᠃᠂᠕᠁ᡙᠬ᠕	ᡯᡁᠺᡁᡬᡐᡘᢏᡁᢦᠩ᠔	il _n hhn	Freq Offs
								0
0.0								
tart 9.00) kH7					Stop 15	0.00 kHz	
Res BW	1.0 kHz	#\	/BW 3.0 kHz		Sweep	134.8 ms		
Res BW		#\	/BW 3.0 kHz			134.8 ms	(601 pts)	
sG gilent Spect	1.0 kHz rum Analyzer - Swept	SA			STATUS	DC Cou	(601 pts) Ipled	
iG <mark>jilent Spect</mark> R L	1.0 kHz	sa Dicentina di la constanta di la Di MHz	SENSE:IN	Avg Typ	ALIGN AUTO	DC Cou	(601 pts) ipled	Frequency
iG <mark>jilent Spect</mark> R L	1.0 kHz rum Analyzer - Swept RF 50 Q A req 15.075000	SA DC	SENSE:IN	Avg Typ	ALIGN AUTO	10:35:49 AM TRAC TYP DE	(601 pts) pled 4Nov 20, 2019 E 1 2 3 4 5 6 E M WWWWW T P P P P P P	Frequency Auto Tu
g <mark>ilent Spect</mark> RL enter F	1.0 kHz rum Analyzer - Swept RF 50 Q 🟦 [SA DC D MHz PNO: Fast IFGain:Lov	SENSE:IN	Avg Typ	ALIGN AUTO	DC Cou 10:35:49 AM TRAC TYPE DE Mkr1	(601 pts) ipled	
ilent Spect RL enter F	1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB	SA DC D MHz PNO: Fast IFGain:Lov	SENSE:IN	Avg Typ	ALIGN AUTO	DC Cou 10:35:49 AM TRAC TYPE DE Mkr1	(601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz	Auto Tu
G RL enter F OdB/div	1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB	SA DC D MHz PNO: Fast IFGain:Lov	SENSE:IN	Avg Typ	ALIGN AUTO	DC Cou 10:35:49 AM TRAC TYPE DE Mkr1	(601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz	Auto Tu Center Fr
g ilent Spect RL enter F OdB/div Og 0.0	1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB	SA DC D MHz PNO: Fast IFGain:Lov	SENSE:IN	Avg Typ	ALIGN AUTO	DC Cou 10:35:49 AM TRAC TYPE DE Mkr1	(601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz	Auto Tu Center Fr 15.075000 M
G ilent Spect RL enter F 0 dB/div 9 0.0 0.0 0.0	1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB	SA DC D MHz PNO: Fast IFGain:Lov	SENSE:IN	Avg Typ	ALIGN AUTO	DC Cou 10:35:49 AM TRAC TYPE DE Mkr1	(601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz	Auto Tu Center Fr 15.075000 M Start Fr
G ent Spect RL enter F 0 dB/div 29 0.0	1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB	SA DC D MHz PNO: Fast IFGain:Lov	SENSE:IN	Avg Typ	ALIGN AUTO	DC Cou 10:35:49 AM TRAC TYPE DE Mkr1	(601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz	Auto Tu Center Fr 15.075000 M Start Fr
is ilent Spect RL enter F 0 dB/div 0 0 0	1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB	SA DC D MHz PNO: Fast IFGain:Lov	SENSE:IN	Avg Typ	ALIGN AUTO	DC Cou 10:35:49 AM TRAC TYPE DE Mkr1	(601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr
G	1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB	SA DC D MHz PNO: Fast IFGain:Lov	SENSE:IN	Avg Typ	ALIGN AUTO	DC Cou 10:35:49 AM TRAC TYPE DE Mkr1	(601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr
G	1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB	SA DC D MHz PNO: Fast IFGain:Lov	SENSE:IN	Avg Typ	ALIGN AUTO	DC Cou 10:35:49 AM TRAC TYPE DE Mkr1	(601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M
G	1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB	SA DC D MHz PNO: Fast IFGain:Lov	SENSE:IN	Avg Typ	ALIGN AUTO	DC Cou 10:35:49 AM TRAC TYPE DE Mkr1	(601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF St 2.985000 M
G	1.0 kHz rum Analyzer - Swept RF 50 Q 1 ireq 15.075000 Ref Offset 1 dB	SA DC D MHz PNO: Fast IFGain:Lov	SENSE:IN	Avg Typ	ALIGN AUTO	DC Cou 10:35:49 AM TRAC TYPE DE Mkr1	(601 pts) apled 100v 20, 2019 1 2 3 4 5 6 M WWWWWW T P P P P P P 160 kHz	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF St 2.985000 M
G	1.0 kHz	SA DC NHZ PNO: Fast IFGain:Lov M	SENSE:IN Trig: Free Run #Atten: 40 dB		ALIGNAUTO De: Log-Pwr d>50/50	DC Cou	(601 pts) pled (Nov 20, 2019 E 12 3 4 5 6 M 20 4 5 6 E 12 3 4 5 6 M 20 4 5 6 E 12 3 4 5 6 M 20 4 5 6 E 12 3 6 6 E 12 5 6	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M 2.985000 M Auto
G Spect Spect (Constraint) (Con	1.0 kHz	SA DC PNO: Fast IFGain:Lov m	SENSE:IN		ALIGNAUTO De: Log-Pwr d>50/50	DC Cou	(601 pts) pled (Nov 20, 2019 E 12 3 4 5 6 M 20 4 5 6 E 12 3 4 5 6 M 20 4 5 6 E 12 3 4 5 6 M 20 4 5 6 E 12 3 6 6 E 12 5 6	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M 2.985000 M Auto
G	1.0 kHz	SA DC PNO: Fast IFGain:Lov m	SENSE:IN Trig: Free Run #Atten: 40 dB		ALIGNAUTO De: Log-Pwr d>50/50	DC Cou	(601 pts) pled (Nov 20, 2019 E 12 3 4 5 6 M 20 4 5 6 E 12 3 4 5 6 M 20 4 5 6 E 12 3 4 5 6 M 20 4 5 6 E 12 3 6 6 E 12 5 6	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF St 2.985000 M
G IIIII Spect RL IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	1.0 kHz	SA DC PNO: Fast IFGain:Lov m	SENSE:IN Trig: Free Run #Atten: 40 dB		ALIGNAUTO De: Log-Pwr d>50/50	DC Cou	(601 pts) pled (Nov 20, 2019 E 12 3 4 5 6 M 20 4 5 6 E 12 3 4 5 6 M 20 4 5 6 E 12 3 4 5 6 M 20 4 5 6 E 12 3 6 6 E 12 5 6	Auto Tu Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M 2.985000 M Auto

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Report No.: ZR/2019/B000404 Page: 52 of 72

	r <mark>um Analyzer - Swa</mark> RF 50 Ω			SEN	VSE:INT		ALIGN AUTO	10:36:10 4	MNov 20, 2019	
	req 1.16500	00000 G	HZ PNO: Fast 😱 Gain:Low	Tain Fac	Run		e: Log-Pwr	TRAC	E P P P P P P	Frequency
) dB/div	Ref Offset 1 o Ref 20.00 o	зB	Sam.cow				Mkr	1 2.007 -46.5	74 GHz 29 dBm	Auto Tui
										Center Fre
10.0										1.165000000 Gi
).00										Start Fre 30.000000 MI
0.0										
0.0									-22.96 dBm	Stop Fr 2.300000000 G
3.0										CF St
0.0								, , 1	ath diadaa a	227.000000 M Auto M
0.0 <mark>Williams</mark>	n fra than a strand film a a manga ng _{ban} a kata an		le pois entré de la dise en			in al na dia ang tilin Pangan pang ang tilin				Freq Offs
0.0										0
0.0										
			#\(D)A(200 642			Swoon 2		.300 GHz	
Res BW	MHz 100 kHz		#VBW	300 kHz			Sweep 2			
Res BW ^{3G} gilent Spectr	100 kHz rum Analyzer - Swa		#VBW				STATUS	17.1 ms (8001 pts)	
Res BW g ilent Spectr RL	100 kHz rum Analyzer - Swa	AC 00000 G	Hz PNO: Fast	SEM	NSE:INT		STATUS	17.1 ms (10:36:22 Al	8001 pts)	Frequency
Res BW G ilent Spectr RL enter F	100 kHz rum Analyzer - Swr RF 50 Ω req 2.35000 Ref Offset 1 c	AC DOOOOO G IF IF	Hz	SEM	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (10:36:22 A TRAC TY D r1 2.39	8001 pts)	
Res BW G ilent Spectr RL enter F OdB/div	100 kHz rum Analyzer - Swo RF 50 Q req 2.35000	AC DOOOOO G IF	Hz PNO: Fast	SEM	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (10:36:22 A TRAC TY D r1 2.39	8001 pts)	Auto Tu
Res BW	100 kHz rum Analyzer - Swr RF 50 Ω req 2.35000 Ref Offset 1 c	AC DOOOOO G IF	Hz PNO: Fast	SEM	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (10:36:22 A TRAC TY D r1 2.39	8001 pts)	Auto Tu Center Fr
Res BW	100 kHz rum Analyzer - Swr RF 50 Ω req 2.35000 Ref Offset 1 c	AC DOOOOO G IF	Hz PNO: Fast	SEM	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (10:36:22 A TRAC TY D r1 2.39	8001 pts)	Auto Tu Center Fr 2.35000000 G Start Fr
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz rum Analyzer - Swr RF 50 Ω req 2.35000 Ref Offset 1 c	AC DOOOOO G IF	Hz PNO: Fast	SEM	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (10:36:22 A TRAC TY D r1 2.39	8001 pts)	Auto Tu Center Fr 2.35000000 G Start Fr
G G G G G G G G G G G G G G G G G G G	100 kHz rum Analyzer - Swr RF 50 Ω req 2.35000 Ref Offset 1 c	AC DOOOOO G IF	Hz PNO: Fast	SEM	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (10:36:22 A TRAC TY D r1 2.39	8001 pts)	Auto Tu Center Fr 2.35000000 G Start Fr 2.30000000 G Stop Fr
G G G G G G G G G G G G G G G G G G G	100 kHz rum Analyzer - Swr RF 50 Ω req 2.35000 Ref Offset 1 c	AC DOOOOO G IF IF	Hz PNO: Fast	SEM	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (10:36:22 A TRAC TY D r1 2.39	8001 pts) MNov 20, 2019 E 1 2 3 4 5 6 M WWW MARK T P P P P P P 1 0 GHz 91 dBm	Auto Tu Center Fr 2.35000000 G Start Fr 2.30000000 G Stop Fr 2.400000000 G
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz rum Analyzer - Swr RF 50 Ω req 2.35000 Ref Offset 1 c	AC DOOOOO G IF IF	Hz PNO: Fast	SEM	NSE:INT	Avg Type	STATUS ALIGNAUTO 200/200	17.1 ms (10:36:22 A TRAC TY D r1 2.39	8001 pts) MNov 20, 2019 E 1 2 3 4 5 6 M WWW MARK T P P P P P P 1 0 GHz 91 dBm	Auto Tu Center Fr 2.35000000 G Start Fr 2.30000000 G Stop Fr 2.40000000 G
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz rum Analyzer - Swr RF 50 Ω req 2.35000 Ref Offset 1 c	AC 00000 G	Hz PNO: Fast Gain:Low	SB Trig: Free #Atten: 40	se:INT P Run D dB	Avg Type Avg Hold	ALIGNAUTO :: Log-Pwr >200/200 MIK	17.1 ms (10:36:22 A TRAC TY D r1 2.39	8001 pts)	Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF Sto 10.000000 M Auto M
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz	AC 00000 G	Hz PNO: Fast Gain:Low	SB Trig: Free #Atten: 40	se:INT P Run D dB	Avg Type Avg Hold	ALIGNAUTO :: Log-Pwr >200/200 MIK	17.1 ms (10:36:22 A TRAC TYN 0 r1 2.39 -48.1	8001 pts)	Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF Str 10.000000 M Auto M
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz	AC 00000 G	Hz PNO: Fast Gain:Low	SB Trig: Free #Atten: 40	se:INT P Run D dB	Avg Type Avg Hold	ALIGNAUTO :: Log-Pwr >200/200 MIK	17.1 ms (10:36:22 A TRAC TYN P r1 2.39 -48.1	8001 pts)	Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF Str 10.000000 M Auto M
ic RL enter F 0 dB/div 0 dB/div 0 d 0 dB/div 0 d 0 dB/div 0 dB/	100 kHz	AC 00000 G	Hz PNO: Fast Gain:Low	SB Trig: Free #Atten: 40	se:INT P Run D dB	Avg Type Avg Hold	STATUS	17.1 ms (10:36:22 A TRAC TY 0 r1 2.39 -48.1	8001 pts)	Auto Tur Center Fr 2.35000000 G Start Fr 2.30000000 G Stop Fr 2.40000000 G

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Report No.: ZR/2019/B000404 Page: 53 of 72

	rum Analyzer - Swept S	SA				
RL	RF 50 Ω A Freq 2.4917500		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	10:36:32 AMNov 20, 2019 TRACE 1 2 3 4 5 6	Frequency
erner r	req 2.4917500	PNO: Fast 😱	Trig: Free Run #Atten: 40 dB	Avg Hold:>200/200	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P P	
		IFGain:Low	#Atten: 40 dB	Mkr4 9	498 652 5 GHz	Auto Tui
	Ref Offset 1 dB				-47.309 dBm	
) dB/div ^{og}	Ref 20.00 dBr				41.000 abiii	
						Center Fre
10.0						2.491750000 GI
).00						Start Fre
						2.483500000 GH
0.0						
0.0						
					-22.96 dBm	Stop Fre
0.0						2.50000000 GI
0.0						CF Ste
					♦	1.650000 Mł Auto Ma
0.0	Jthan mer man lag	www.anglogelangermangly	www.lynnalloward	ᡊᢇᢣ᠋᠁ᢩᠿᡁᠬᡭᢕ᠇᠋ᢩᡀᡢ᠋ᠯᠰ᠋ᠮᢑ᠇ᡔᢦᠬ	\sim	
ľ						Freq Offs
0.0						01
0.0						
	33500 GHz				top 2.500000 GHz	
Res BW	100 kHz	#VBW	300 kHz	Sweep	1.600 ms (601 pts)	
SG				STATUS		
gilent Spect						
	rum Analyzer - Swept S					
RL	RF 50Ω A	C C	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	10:37:05 AM Nov 20, 2019 TRACE 1 2 3 4 5 6	Frequency
RL		0000 GHz PN0: Fast	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	10:37:05 AMNov 20, 2019 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P P P P P	Frequency
RL	RF 50 Ω A Freq 14.500000	c 0000 GHz		Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE M WWWWW DET P P P P P P	
RL enter F	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	OOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	10:37:05 AMNov 20, 2019 TRACE 12 3 4 5 0 TYPE MUNICIPAL DET P P P P P kr1 26.491 GHz -37.948 dBm	
RL enter F	RF 50 Ω A Freq 14.500000	OOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWWW DET P P P P P kr1 26.491 GHz	
enter F	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	OOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWWW DET P P P P P kr1 26.491 GHz	Auto Tur Center Fre
enter F	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	OOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWWW DET P P P P P kr1 26.491 GHz	Auto Tur Center Fre
enter F	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	OOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWWW DET P P P P P kr1 26.491 GHz	Auto Tur Center Fre
enter F	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	OOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWWW DET P P P P P kr1 26.491 GHz	Auto Tur Center Fre 14.50000000 Gł
OdB/div	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	OOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWWW DET P P P P P kr1 26.491 GHz	Auto Tur Center Fre 14.50000000 Gł Start Fre
enter F	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	OOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWWW DET P P P P P kr1 26.491 GHz	Auto Tur Center Fre 14.50000000 Gł Start Fre
enter F 0 dB/div 0 0 0.0	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	OOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	IRACE 12 2 4 5 6 TYPE MAXMANU OFT P P P P P P kr1 26.491 GHz -37.948 dBm	Auto Tur Center Fre 14.50000000 Gi Start Fre 2.50000000 Gi
0 dB/div 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	OOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWWW DET P P P P P kr1 26.491 GHz	Auto Tur Center Fre 14.50000000 Gi Start Fre 2.50000000 Gi Stop Fre
0 dB/div 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	OOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	IRACE 12 2 4 5 6 TYPE MAXMANU OFT P P P P P P kr1 26.491 GHz -37.948 dBm	Auto Tur Center Fre 14.50000000 Gi Start Fre 2.50000000 Gi Stop Fre
enter F odB/div og 0.00 0.00 0.00 0.00	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	OOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	IRACE 12 2 4 5 6 TYPE MAXMANU OFT P P P P P P kr1 26.491 GHz -37.948 dBm	Auto Tur Center Fre 14.50000000 GF Start Fre 2.500000000 GF Stop Fre 26.50000000 GF
enter F odB/div og 0.00 0.00 0.00 0.00	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	OOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr Avg Hold: 10/10 Ml	IRACE II 2 4 5 6 TYPE MAXMANAN OFT P P P P P P kr1 26.491 GHz -37.948 dBm -22 96 dBm	Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH Stop Fre 26.50000000 GH
enter F odB/div og 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	m	Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr Avg Hold: 10/10 MI	IRACE 12 2 4 5 6 TYPE MAXMANU OFT P P P P P P kr1 26.491 GHz -37.948 dBm	Auto Tur Center Fra 14.50000000 Gł Start Fra 2.50000000 Gł Stop Fra 26.50000000 Gł CF Sta 2.40000000 Gł
enter F odB/div og 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	OOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr Avg Hold: 10/10 MI	IRACE II 2 4 5 6 TYPE MAXMANAN OFT P P P P P P kr1 26.491 GHz -37.948 dBm -22 96 dBm	Auto Tur Center Fre 14.50000000 Gł Start Fre 2.50000000 Gł Stop Fre 26.50000000 Gł CF Ste 2.40000000 Gł
RL enter F 0 dB/div 0 g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	m	Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr Avg Hold: 10/10 MI	IRACE II 2 4 5 6 TYPE MAXMANAN OFT P P P P P P kr1 26.491 GHz -37.948 dBm -22 96 dBm	Auto Tur Center Fre 14.50000000 GH 2.50000000 GH 26.50000000 GH 26.50000000 GH 2.40000000 GH Auto Mi
RL enter F 0 dB/div 0 g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	m	Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr Avg Hold: 10/10 MI	IRACE II 2 4 5 6 TYPE MAXMANAN OFT P P P P P P kr1 26.491 GHz -37.948 dBm -22 96 dBm	Auto Tur Center Fra 14.50000000 Gi Start Fra 2.50000000 Gi Stop Fra 26.50000000 Gi Auto Mi
RL enter F 0 dB/div 0 g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	m	Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr Avg Hold: 10/10 MI	IRACE II 2 4 5 6 TYPE MAXMANAN OFT P P P P P P kr1 26.491 GHz -37.948 dBm -22 96 dBm	Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH 26.50000000 GH 2.40000000 GH Auto Mi Freq Offs
	RF 50Ω A Freq 14.500000 Ref Offset 1 dB	m	Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr Avg Hold: 10/10 MI	IRACE II 2 4 5 6 TYPE MAXMANAN OFT P P P P P P kr1 26.491 GHz -37.948 dBm -22 96 dBm	Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH 26.50000000 GH 26.50000000 GH 2.40000000 GH Auto Ma
RL enter F 0 dB/div 0 d </td <td>RF 50 Ω A ireq 14.500000 A Ref Offset 1 dB Ref 20.00 dBr A Ref 20.00 dBr A A</td> <td>m</td> <td>Trig: Free Run #Atten: 40 dB</td> <td>Avg Type: Log-Pwr Avg Hold: 10/10 MI</td> <td>TRACE 12.9.4.5 6 Type P.P.P.P.P.P. kr1 26.4.91 GHZ -37.948 dBm -37.948 -22.96 dBm -22.96 dBm -22.96 dBm -22.96 dBm</td> <td>Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH 26.50000000 GH 26.50000000 GH 2.40000000 GH Auto Mi</td>	RF 50 Ω A ireq 14.500000 A Ref Offset 1 dB Ref 20.00 dBr A Ref 20.00 dBr A A	m	Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr Avg Hold: 10/10 MI	TRACE 12.9.4.5 6 Type P.P.P.P.P.P. kr1 26.4.91 GHZ -37.948 dBm -37.948 -22.96 dBm -22.96 dBm -22.96 dBm -22.96 dBm	Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH 26.50000000 GH 26.50000000 GH 2.40000000 GH Auto Mi
RL enter F 0 dB/div 0 d </td <td>RF 0ffset 1 dB Ref 0ffset 1 dB Ref 20.00 dBr</td> <td>C 000 GHz PNO: Fast IFGain:Low M Ultimote to the lattice of the lattice of</td> <td>Trig: Free Run #Atten: 40 dB</td> <td>Avg Type: Log-Pwr Avg Hold: 10/10 M</td> <td>TRACE 1 2 4.5 6 TYPE MAXMANNA MAXMANNA DEP P. P. P. P. P. P. P. kr1 26.491 GHz -37.948 dBm 1 -22.96 1 1 -22.96 1 1 -22.96 1 1 -22.96 1 1 -22.96 1 1 -22.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96</td> <td>Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH 26.50000000 GH 26.50000000 GH 2.40000000 GH Auto Ma</td>	RF 0ffset 1 dB Ref 0ffset 1 dB Ref 20.00 dBr	C 000 GHz PNO: Fast IFGain:Low M Ultimote to the lattice of	Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr Avg Hold: 10/10 M	TRACE 1 2 4.5 6 TYPE MAXMANNA MAXMANNA DEP P. P. P. P. P. P. P. kr1 26.491 GHz -37.948 dBm 1 -22.96 1 1 -22.96 1 1 -22.96 1 1 -22.96 1 1 -22.96 1 1 -22.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96 1 1 -20.96	Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH 26.50000000 GH 26.50000000 GH 2.40000000 GH Auto Ma
RL enter F 0 dB/div 9 00	RF 50 Ω A ireq 14.500000 A Ref Offset 1 dB Ref 20.00 dBr A Ref 20.00 dBr A A	C 000 GHz PNO: Fast IFGain:Low M Ultimote to the lattice of	Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr Avg Hold: 10/10 M	TRACE 1.2.4.5.6 TYPE MAXMANNA UPE P.P.P.P.P.P.P. kr1 26.4.91 GHz -37.948 dBm -22.96 dBm -22.96 dBm -22.96 dBm -22.96 dBm -2.2.96 dBm -37.948 dBm -2.2.96 dBm -2.2.96 dBm -37.948 dBm	Auto Tur Center Fre 14.50000000 GH Start Fre 2.50000000 GH 26.50000000 GH CF Ste 2.40000000 GH

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/2019/B000404 Page: 54 of 72

Test Requirement:	47 CFR Part 15C Sectio	n 15.209 and 15.2	205						
Test Method:	ANSI C63.10 :2013 Section 11.12								
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)								
	Frequency	Detector	Detector RBW		Remark				
	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				
Pagaivar Satur:	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				
	Above 1GHz	Peak	1MHz	3MHz	Peak				
	Above IGHZ	Peak	1MHz	10Hz	Average				
	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)				
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30				
	1.705MHz-30MHz	30	-	-	30				
	30MHz-88MHz	100	40.0	Quasi-peak	3				
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), Unles emissions is 20dB above to the equipment under radiated by the device.	e the maximum pe	ermitted ave	rage emission	limit applicable				

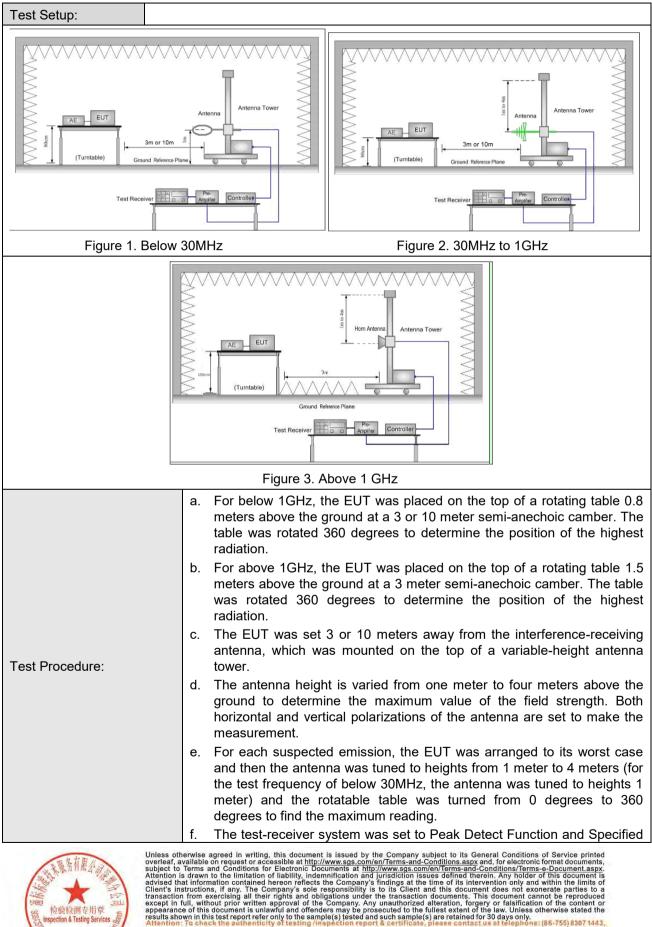
4.9 Radiated Spurious Emission

SG



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Report No.: ZR/2019/B000404 Page: 55 of 72



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

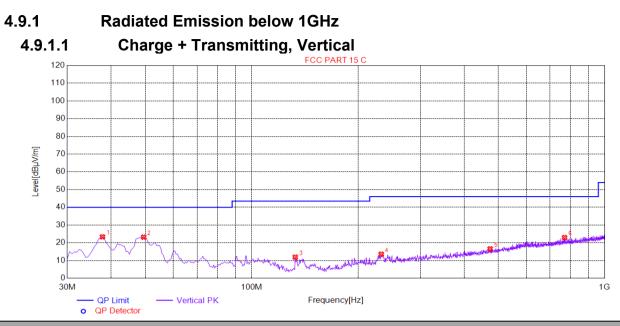
Report No.: ZR/2019/B000404 Page: 56 of 72

	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 (2400HHz),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.
Eveloratory Test Made	Transmitting with GFSK modulation.
Exploratory Test Mode:	Charge + Transmitting mode.
	Transmitting with GFSK modulation.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode,
Tinal restille.	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/2019/B000404 Page: 57 of 72

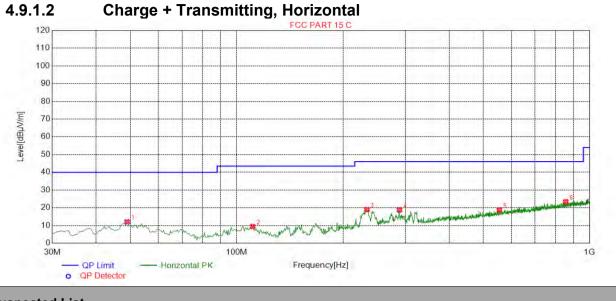


Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	37.7639	23.34	-31.88	40.00	16.66	100	125	Vertical			
2	49.4097	23.15	-30.18	40.00	16.85	100	294	Vertical			
3	132.8714	11.86	-34.90	43.50	31.64	100	37	Vertical			
4	232.8314	13.55	-29.86	46.00	32.45	100	225	Vertical			
5	473.9970	16.57	-23.34	46.00	29.43	100	206	Vertical			
6	769.9950	22.93	-17.25	46.00	23.07	100	344	Vertical			



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Report No.: ZR/2019/B000404 Page: 58 of 72

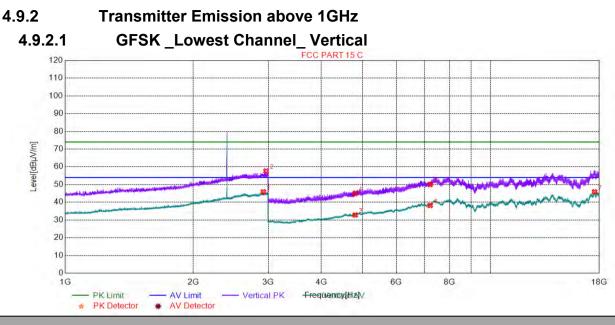


Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.9245	12.03	-30.19	40.00	27.97	100	66	Horizontal
2	111.0355	9.42	-31.85	43.50	34.08	100	358	Horizontal
3	233.8019	18.98	-29.82	46.00	27.02	100	219	Horizontal
4	289.1196	18.77	-28.16	46.00	27.23	100	16	Horizontal
5	555.0325	18.71	-21.31	46.00	27.29	100	16	Horizontal
6	855.8829	23.41	-15.94	46.00	22.59	100	304	Horizontal



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Report No.: ZR/2019/B000404 Page: 59 of 72

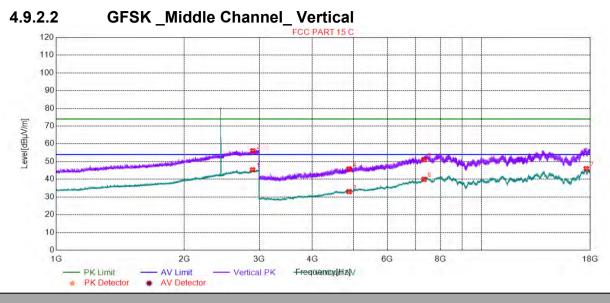


Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2922.9807	45.85	11.40	54.00	8.15	150	288	Vertical		
2	2966.4916	57.62	11.38	74.00	16.38	150	179	Vertical		
3	4804.0000	32.83	-14.99	54.00	21.17	150	292	Vertical		
4	4804.0000	45.03	-14.99	74.00	28.97	150	127	Vertical		
5	7206.0000	50.05	-7.05	74.00	23.95	150	18	Vertical		
6	7206.0000	38.21	-7.05	54.00	15.79	150	18	Vertical		
7	17544.9772	45.88	0.93	54.00	8.12	150	242	Vertical		



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Report No.: ZR/2019/B000404 Page: 60 of 72

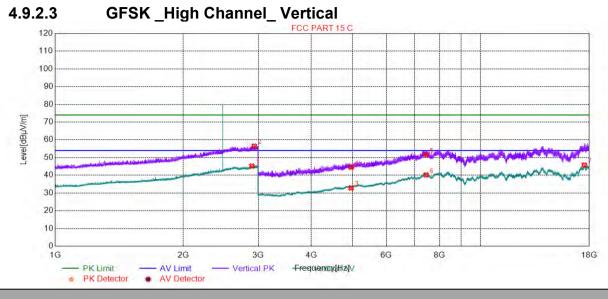


Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2895.4739	45.32	11.38	54.00	8.68	150	191	Vertical		
2	2900.4751	56.07	11.41	74.00	17.93	150	2	Vertical		
3	4882.0000	33.07	-14.64	54.00	20.93	150	73	Vertical		
4	4882.0000	45.88	-14.64	74.00	28.12	150	127	Vertical		
5	7323.0000	51.06	-6.15	74.00	22.94	150	237	Vertical		
6	7323.0000	39.99	-6.15	54.00	14.01	150	45	Vertical		
7	17620.9810	45.99	1.08	54.00	8.01	150	292	Vertical		



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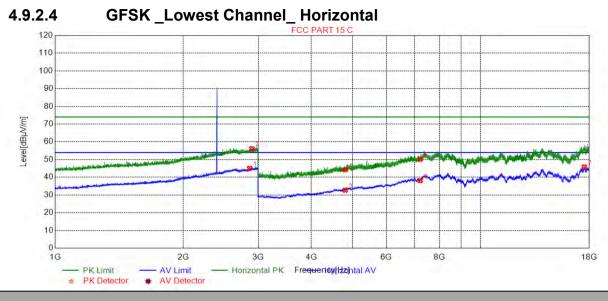


Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2898.4746	45.20	11.40	54.00	8.80	150	154	Vertical
2	2937.4844	56.50	11.39	74.00	17.50	150	316	Vertical
3	4960.0000	32.85	-14.23	54.00	21.15	150	18	Vertical
4	4960.0000	44.57	-14.23	74.00	29.43	150	332	Vertical
5	7440.0000	51.64	-5.89	74.00	22.36	150	18	Vertical
6	7440.0000	40.17	-5.89	54.00	13.83	150	358	Vertical
7	17523.9762	45.77	0.66	54.00	8.23	150	42	Vertical



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Report No.: ZR/2019/B000404 Page: 62 of 72

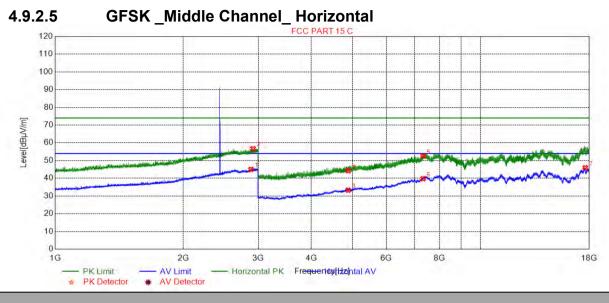


Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2864.4661	45.02	11.14	54.00	8.98	150	279	Horizontal
2	2897.9745	56.15	11.39	74.00	17.85	150	58	Horizontal
3	4804.0000	32.76	-14.99	54.00	21.24	150	49	Horizontal
4	4804.0000	44.30	-14.99	74.00	29.70	150	295	Horizontal
5	7206.0000	50.22	-7.05	74.00	23.78	150	212	Horizontal
6	7206.0000	38.14	-7.05	54.00	15.86	150	267	Horizontal
7	17521.9761	45.81	0.63	54.00	8.19	150	242	Horizontal



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> Report No.: ZR/2019/B000404 Page: 63 of 72



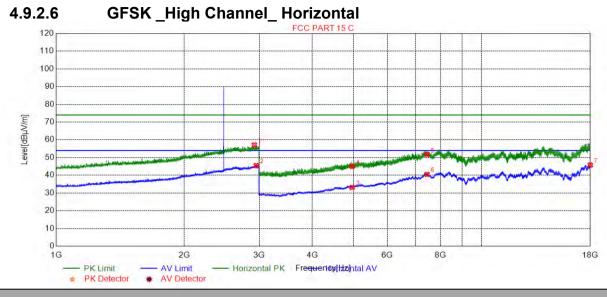
Suspe	ected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2885.9715	45.00	11.30	54.00	9.00	150	18	Horizontal
2	2916.4791	56.71	11.40	74.00	17.29	150	153	Horizontal
3	4882.0000	33.32	-14.64	54.00	20.68	150	360	Horizontal
4	4882.0000	44.27	-14.64	74.00	29.73	150	346	Horizontal
5	7323.0000	52.54	-6.15	74.00	21.46	150	360	Horizontal
6	7323.0000	39.78	-6.15	54.00	14.22	150	182	Horizontal
7	17611.4806	45.96	1.33	54.00	8.04	150	242	Horizontal



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Report No.: ZR/2019/B000404 Page: 64 of 72



Suspected List

ouspe								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2922.9807	57.14	11.40	74.00	16.86	150	266	Horizontal
2	2951.4879	45.51	11.38	54.00	8.49	150	306	Horizontal
3	4960.0000	33.15	-14.23	54.00	20.85	150	263	Horizontal
4	4960.0000	45.02	-14.23	74.00	28.98	150	127	Horizontal
5	7440.0000	51.73	-5.89	74.00	22.27	150	236	Horizontal
6	7440.0000	40.51	-5.89	54.00	13.49	150	72	Horizontal
7	17998.4999	45.76	-0.36	54.00	8.24	150	291	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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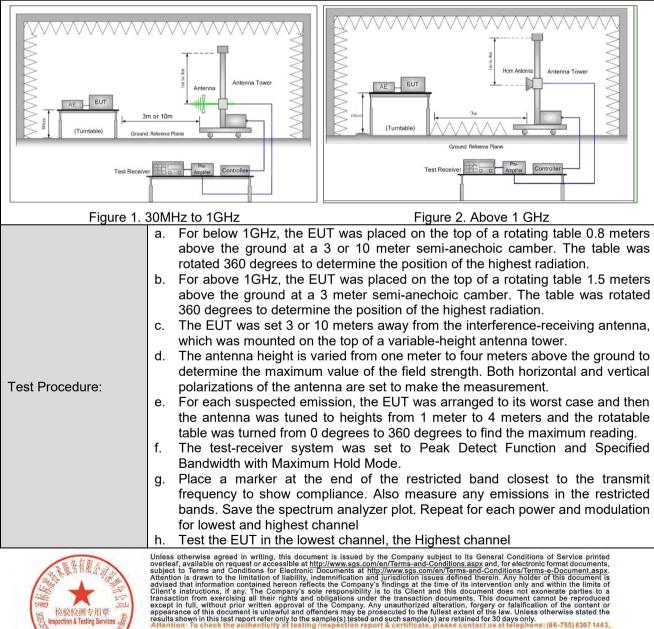
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> Report No.: ZR/2019/B000404 Page: 65 of 72

Restricted bands around fundamental frequency 4.10

			-						
Test Requirement:	47 CFR Part 15C Sectio	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10: 2013 Sec	ANSI C63.10: 2013 Section 11.12							
Test Site:	Measurement Distance:	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						
	Above IGHZ	74.0	Peak Value						

Test Setup:





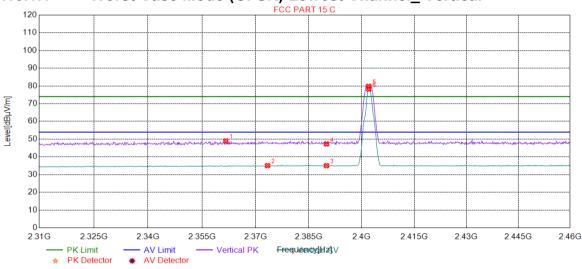
e: (86-755) 8307 1443. No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn sgs.china@sgs.com 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594



Report No.: ZR/2019/B000404 Page: 66 of 72

	 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. Repeat above procedures until all frequencies measured was complete.
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

4.10.1 Test plots



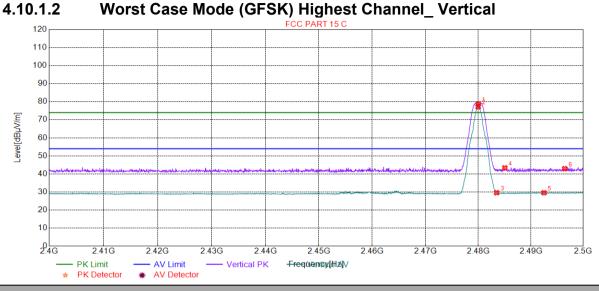
4.10.1.1 Worst Case Mode (GFSK) Lowest Channel_ Vertical

Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2361.6517	49.01	9.10	74.00	24.99	150	32	Vertical	
2	2373.3634	35.10	9.14	54.00	18.90	150	184	Vertical	
3	2390.0000	35.06	9.20	54.00	18.94	150	239	Vertical	
4	2390.0000	47.29	9.20	74.00	26.71	150	154	Vertical	
5	2402.0000	79.78	9.24	74.00	-5.78	150	310	Vertical	
6	2402.0000	78.20	9.24	54.00	-24.20	150	313	Vertical	



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Report No.: ZR/2019/B000404 Page: 67 of 72

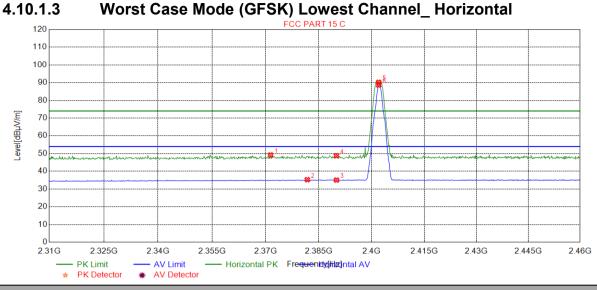


Suspected List Level Freq. Factor Limit Margin Height Angle NO. Polarity [MHz] $[dB\mu V/m]$ [dB] [dBµV/m] [dB] [cm] [°] 1 2480.0000 78.61 9.49 74.00 -4.61 150 80 Vertical 2 80 Vertical 2480.0000 77.19 9.49 54.00 -23.19 150 3 2483.5000 29.60 9.50 54.00 24.40 150 314 Vertical 4 2485.0425 43.36 9.50 74.00 30.64 150 57 Vertical 5 2492.4962 29.57 9.53 54.00 24.43 150 123 Vertical 6 42.90 74.00 150 325 2496.4482 9.54 31.10 Vertical



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Report No.: ZR/2019/B000404 Page: 68 of 72

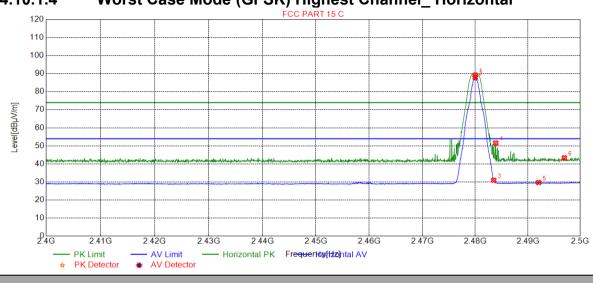


Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2371.4114	49.21	9.14	74.00	24.79	150	121	Horizontal	
2	2381.7718	35.25	9.17	54.00	18.75	150	38	Horizontal	
3	2390.0000	35.03	9.20	54.00	18.97	150	212	Horizontal	
4	2390.0000	48.78	9.20	74.00	25.22	150	101	Horizontal	
5	2402.0000	90.21	9.24	74.00	-16.21	150	191	Horizontal	
6	2402.0000	88.65	9.24	54.00	-34.65	150	187	Horizontal	



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Report No.: ZR/2019/B000404 Page: 69 of 72



4.10.1.4 Worst Case Mode (GFSK) Highest Channel Horizontal

Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2480.0000	89.20	9.49	74.00	-15.20	150	211	Horizontal	
2	2480.0000	87.81	9.49	54.00	-33.81	150	211	Horizontal	
3	2483.5000	30.96	9.50	54.00	23.04	150	223	Horizontal	
4	2483.8919	51.61	9.50	74.00	22.39	150	180	Horizontal	
5	2492.0460	29.73	9.52	54.00	24.27	150	250	Horizontal	
6	2496.9485	43.41	9.54	74.00	30.59	150	223	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/2019/B000404 Page: 70 of 72

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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SGS SG

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

Report No.: ZR/2019/B000404 Page: 71 of 72

6 Equipment List

Conducted Emission									
Toot Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate				
Test Equipment	Manufacturer	Wodel No.	inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)				
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9				
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019/7/14	2020/7/14				
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2019/4/1	2020/3/31				
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM024-01	2019/6/12	2020/6/11				
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2019/2/11	2020/2/10				
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019/3/2	2020/3/1				
				·					
	RF co	onducted test							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate				
rest Equipment	Wallulacturei	Woder No.	inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)				
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2019/7/15	2020/7/15				
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/1/13	2020/1/12				
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11				
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A				
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019/7/14	2020/7/14				
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2019/10/27	2020/10/27				
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14				
	RE	in Chamber							
To at Equipment	Manufacturan		las contons Mo	Cal. date	Cal.Due date				
Test Equipment	Manufacturer	woder No.	Inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)				
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4				
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM025-01	2019/6/12	2020/6/11				
MXE EMI Receiver (20Hz- 8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019/7/14	2020/7/14				
BiConiLog Antenna (26- 3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26				
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2019/3/2	2020/3/1				
	RE	in Chamber							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date				
				(yyyy-mm-dd)	(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	2019/6/12	2020/6/11				
EXA Signal Analyzer (10Hz- 26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2019/3/12	2020/3/11				
BiConiLog Antenna (26-	ETO Lin daman	3142C	SEM003-01	2017/6/27	2020/6/26				
3000MHz)	ETS-Lindgren	51420	CEMODO OT						
3000MHz) Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12 2020/7/14				



Low Noise Amplifier(100MHz-

18GHz)

Horn Antenna (15-40GHz)

Pre-amplifier(18-26GHz)

Band filter

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SEM005-05

SEM003-15

SEM005-17

SEM023-01

BDLNA-0118-

352810

BBHA 9170

CH14-H052

N/A

Black Diamond Series

Schwarzbeck

Rohde & Schwarz

N/A

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2019/9/3

2017/10/17

2019/3/2

N/A

2020/9/2

2020/10/16

2020/3/1

N/A



Report No.: ZR/2019/B000404 Page: 72 of 72

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	2019/3/2	2020/3/1				
Trilog-Broadband Antenna(25M- 2GHz)	Schwarzbeck	VULB9168	SEM003-18	2018/3/15	2020/3/14				
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2019/3/12	2020/3/11				
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	2019/6/12	2020/6/11				

7 Photographs for Set-up

Refer to Appendix A - Photographs of Set-Up for ZR/2019/B0004.

The End



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