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FCC TEST REPORT

Application No:	ZR/2019/B0024			
Applicant:	Hisense International Co., Ltd.			
Address of Applicant:	Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, 266071, China			
Manufacturer:	Hisense Communications Co., Ltd.			
Address of Manufacturer	No.218 Qianwangang Road, Economic & Technological Development Zone, Qingdao, China			
Factory:	Qingdao Intelligent & Precise Electronics Co., Ltd.			
Address of Factory:	No.218 Qianwangang Road, Economic & Technological Development Zone, Qingdao, China			
EUT Description:	Smartphone			
Model No.:	HLTE226E			
Trade Mark:	Hisense			
FCC ID:	2ADOBHLTE226E			
Standards:	47 CFR FCC Part 2, Subpart J 47 CFR Part 15, Subpart C			
Test Method:	KDB558074 D01 15.247 Meas Guidance v05r02			
Test Methou.	ANSI C63.10 (2013)			
Date of Receipt:	2019/11/25			
Date of Test:	2019/11/26 to 2019/12/10			
Date of Issue:	2021/5/7			
Test Result:	PASS *			

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

Authorized Signature:

Derde yang

Derek Yang Wireless Laboratory Manager



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1 Version

Revision Record				
Chapter	Date	Modifier	Remark	
	2019/12/10		Original	
	2021/5/7	Kevin.Lan	 Add test site Information Modify data conversion error of antenna height Update equipment list 	
	Chapter	Chapter Date 2019/12/10 2019/12/10	ChapterDateModifier2019/12/10	

*This report supersedes our previous report ZR/2019/B002404, issued on 2019/12/10, which is hereby deemed null and void.

Authorized for issue by:	
Prepared By	Kevin. lan (Kevin.Lan) /Engineer
Checked By	David Chen (David Chen) /Reviewer



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2 Test Summary

Test Item	Test Requirement	Test method	Test Result	Result	Test Lab*
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS	В
Duty Cycle			Clause 4.3	PASS	А
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.4	PASS	А
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Clause 4.5		PASS	А
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	C63.10 2013 Clause 4.6		А
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS	А
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.8	PASS	А
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS	В
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013	Clause 4.10	PASS	В

Remark: All test were performed by Lab A and B.

Parts of test items above were subcontracted to Lab B.

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

Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.



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VERMON

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5	MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2)	
6	EQUIPMENT LIST	
7	PHOTOGRAPHS	



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3 General Information

3.1 Client Information

Applicant:	Hisense International Co., Ltd.		
Address of Applicant:	Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, 266071, China		
Manufacturer:	Hisense Communications Co., Ltd.		
Address of Manufacturer: No.218 Qianwangang Road, Economic & Technological Development Zor Qingdao, China			
Factory:	Qingdao Intelligent & Precise Electronics Co., Ltd.		
Address of Factory: No.218 Qianwangang Road, Economic & Technological Development Z Qingdao, China No.218 Qianwangang Road, Economic & Technological Development Z			

3.2 Test Location

Lab A:

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		
Test Engineer	Adam Liang, Mike Hu		

Lab B:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.			
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyu 3rd Road, Fengdong New City, Xi'an, Shaanxi China			
Post code:	710086			
Test Engineer	Ben Huang			

3.3 Test Facility

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

Lab A:

• 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



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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.

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

Lab B:

• A2LA (Certificate No. 4854.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• FCC –Designation Number: CN1271

3.4 General Description of EUT

EUT Description:	Smartphone		
Model No.:	HLTE226E		
Trade Mark:	Hisense		
Hardware Version:	V1.00		
Software Version:	L1703.6.01.01.MX02		
IEEE 802.11 WLAN Mode Supported	 802.11B (20 MHz channel bandwidth), 802.11G (20 MHz channel bandwidth) 802.11N (20 MHz channel bandwidth), 		
Operation Frequency:	2400 MHz -2483.5MHz fc = 2407 MHz + N * 5 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 1 to 11 for the 20 MHz channel bandwidth		
Type of Modulation:	IEEE for 802.11B: DSSS IEEE for 802.11G : OFDM IEEE for 802.11N(HT20) : OFDM		
Sample Type:	☐ Portable Device, ⊠Module		
Antenna Type:	External, 🛛 Integrated		
Antenna Ports	🖾 Ant 1, 🗌 Ant 2, 🗌 Ant 3		
Smart System	⊠ SISO (for 802.11B/G/N), □ MIMO (for 802.11N): 2 Tx & 2 Rx, □ Diversity (for 802.11B/G) :		
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Antenna Gain:	0.5dBi
Power Supply	AC/DC Adapter; Battery PoE:; Other:

	Operation Frequency of each channel (802.11B/G/N HT20)						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

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 for 802.11B/G/N (HT20)		
The Lowest channel	2412MHz		
The Middle channel	2437MHz		
The Highest channel	2462MHz		

3.5 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	101.30 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

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





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antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.5dBi.



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Test Requirement:	47 CFR Part 15C Section 15	b.207	
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
	Frequency range (MHz)	Limit (d	BuV)
		Quasi-peak	Average
Limit:	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:	 impedance. The power of to a second LISN 2, which plane in the same way as multiple socket outlet stringing LISN provided the 3) The tabletop EUT was placed on the horizontal 4) The test was performed whether the EUT shall be 0.4 method of the EUT shall be 0.4 method with the event of the gradient of the g	to AC power source throug Network) which provides a sables of all other units of the ch was bonded to the ground is the LISN 1 for the unit beil p was used to connect mult rating of the LISN was not aced upon a non-metallic ta And for floor-standing arran ground reference plane, with a vertical ground refere in from the vertical ground refere plane was bonded to the h is 1 was placed 0.8 m from ed to a ground reference pla ound reference plane. This its of the LISN 1 and the EL equipment was at least 0.8 num emission, the relative p interface cables must be ch	yh a LISN 1 (Line $50\Omega/50\mu$ H + 5Ω linear e EUT were connected d reference ng measured. A tiple power cables to a exceeded. able 0.8m above the agement, the EUT was ence plane. The rear eference plane. The rear eference plane. The norizontal ground the boundary of the ane for LISNs distance was JT. All other units of m from the LISN 2. positions of

4.2 AC Power Line Conducted Emissions



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Test Setup:	Shielding Room Test Receiver Test					
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.					
	Charge + Transmitting mode.					
	Through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case.					
Final Test Mode:	Charge + Transmitting mode.					
	Only the worst case is recorded in the report.					
Instruments Used:	Refer to section 5.10 for details					
Test Results:	Pass					



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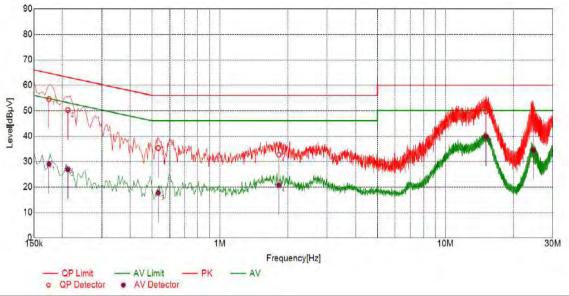
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



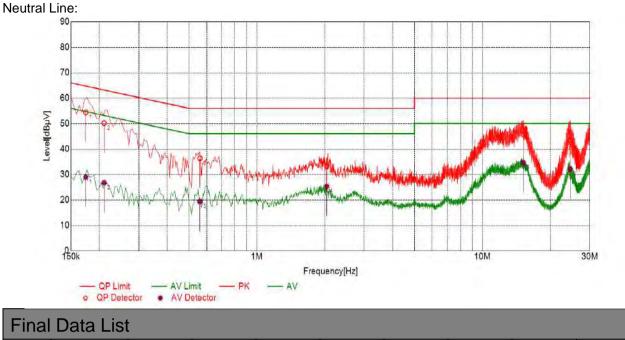
Final	l Data Lis	t							
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Туре
1	0.1752	10.10	54.54	64.71	10.17	29.01	54.71	25.70	L
2	0.2121	10.10	50.18	63.12	12.94	26.89	53.12	26.23	L
3	0.5341	10.10	35.28	56.00	20.72	17.64	46.00	28.36	L
4	1.8274	10.10	32.66	56.00	23.34	20.69	46.00	25.31	L
5	15.1032	10.11	49.71	60.00	10.29	39.80	50.00	10.20	L
6	24.5128	10.11	46.53	60.00	13.47	34.45	50.00	15.55	L



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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	0.1749	10.10	54.40	64.72	10.32	28.96	54.72	25.76	N
2	0.2105	10.10	50.15	63.18	13.03	26.73	53.18	26.45	N
3	0.5603	10.10	36.35	56.00	19.65	19.38	46.00	26.62	Ν
4	2.0413	10.10	33.27	56.00	22.73	25.29	46.00	20.71	N
5	15.1790	10.11	45.70	60.00	14.30	34.56	50.00	15.44	Ν
6	24.4880	10.11	43.31	60.00	16.69	32.10	50.00	17.90	Ν

Remarks:

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



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4.3 Duty Cycle

4.3.1	Test Results
	rootroouno

Test Mode	TX Freq. [MHz]	Duty cycle [%]
11B	Ant 1: CH1	99.69
11G	Ant 1: CH1	96.85
11N20	Ant 1: CH1	96.55

4.3.1 Test Plots

4.3.1.1 ANT1

4.3.1.1.1 11B

	rum Analyzer - S									
Marker 3	RF 50 3 9.41700 r	Ω AC ns		SEN	ISE:INT		ALIGNAUTO ype: Log-Pwr	TRAC	4 Nov 20, 2019	Export Data
			PNO:Fast ↔ FGain:Low	Trig: Free Atten: 40		Avg H	old: 1/1	TYF Di		Amplitude
10 dB/div Log	Ref Offset Ref 30.00							Mkr3 9. 11.1	417 ms 71 dBm	Correction ▷ Correction 1
20.0 10.0	>1			3						Trace
0.00 -10.0 -20.0										Limit 1 [⊳]
-30.0 -40.0 -50.0										Meas Results Peak Table
	.412000000 1.0 MHz	GHz	#VB\	N 1.0 MHz			Sweep 2	S 0.00 ms (pan 0 Hz 2001 pts)	
4 5 6	IRC SCL 1 t 1 t 1 t	9	.013 ms .391 ms .417 ms	Y 11.124 dE 11.143 dE 11.171 dE	3m 3m	CTION	FUNCTION WIDTH	FUNCTIO	N VALUE	
7 8 9 10 11									~	Save As
MSG							STATUS			



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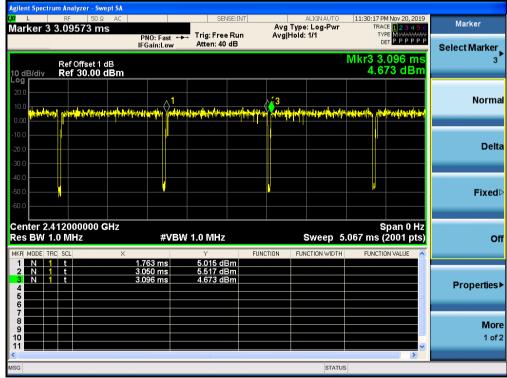


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4.3.1.1.2 11G

gilent Spectrum Analyzer - Swept SA 11:29 32 PM No TRACE Peak Search Marker 3 3.16413 ms Avg Type: Log-Pwr Avg|Hold: 1/1 RACE 123450 TYPE MWWWW DET P P P P P Trig: Free Run PNO: Fast IFGain:Low Atten: 40 dB Next Peak Mkr3 3.164 ms 5.938 dBr Ref Offset 1 dB Ref 30.00 dBm 10 dB/div od Next Pk Right Δ^1 (3 a bisha akalan karan 1 1 1000 Next Pk Left Marker Delta Center 2.412000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 5.067 ms (2001 pts) #VBW 1.0 MHz Mkr→CF FUNCTION FUNCTION WIDTH 5.551 dBn 5.564 dBn 5.938 dBn N N <u>3.119 ms</u> 3.164 ms 1 t 1 t Mkr→RefLvl More 1 of 2

4.3.1.1.3 11N20





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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)				
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3				
Test Setup:	POWER METER E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.10 for details				
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates				
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20);				
Limit:	30dBm				
Test Results:	Pass				

4.4.1 Test Results

Measurement Data of Peak Power:

Mode	Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
	Lowest	22.61	30.00	Pass
802.11B	Middle	22.44	30.00	Pass
	Highest	22.76	30.00	Pass
	Lowest	22.76	30.00	Pass
802.11G	Middle	22.93	30.00	Pass
	Highest	23.16	30.00	Pass
	Lowest	21.80	30.00	Pass
802.11N20	Middle	21.70	30.00	Pass
	Highest	21.90	30.00	Pass



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Test Requirement: 47 CFR Part 15C Section 15.247 (a)(2) Test Method: ANSI C63.10: 2013 Section 11.8.1 Option 1 Spectrum Analyzer E.U.T G Test Setup: Non-Conducted Table **Ground Reference Plane** Instruments Used: Refer to section 5.10 for details Transmitting with all kind of modulations, data rates **Exploratory Test Mode:** Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; Final Test Mode: 6Mbps of rate is the worst case of 802.11G; 6.5Mbps of rate is the worst case of 802.11N(HT20); Limit: ≥ 500 kHz **Test Results:** Pass

4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

4.5.1 Test Results

	1 COL INCOURT	0			
Mode	Test Channel	Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	13.11	8.07	≥500	Pass
802.11B	Middle	13.16	8.59	≥500	Pass
0021112	Highest	13.03	8.12	≥500	Pass
	Lowest	16.61	15.73	≥500	Pass
802.11G	Middle	16.58	15.57	≥500	Pass
	Highest	16.57	15.15	≥500	Pass
	Lowest	17.61	16.05	≥500	Pass
802.11N20	Middle	17.60	16.09	≥500	Pass
002.111120	Highest	17.58	15.94	≥500	Pass



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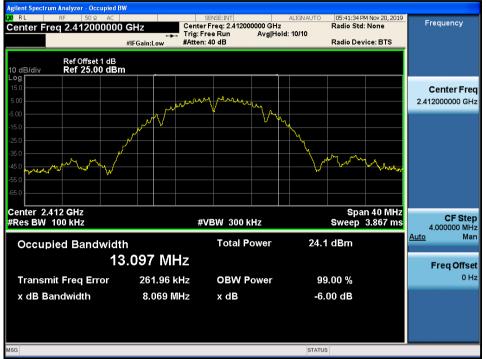


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4.5.2 Test plots

4.5.2.1 ANT1

4.5.2.1.1 802.11B_Lowest Channel





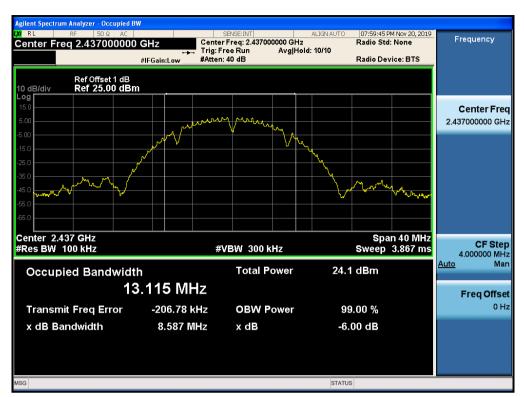




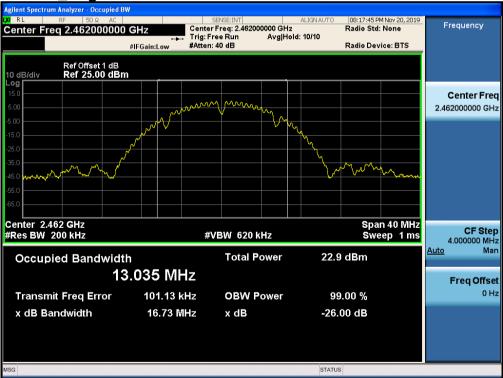
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4.5.2.1.3 802.11B_ Highest Channel

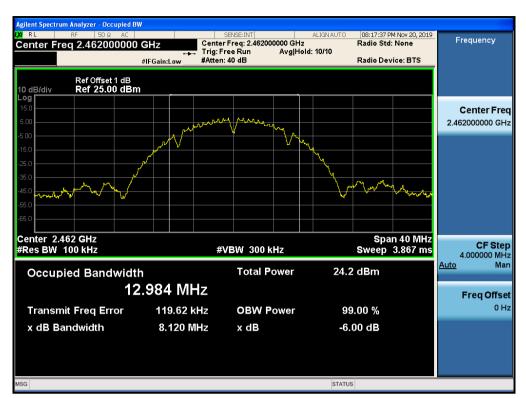




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4.5.2.1.4 802.11G_Lowest Channel





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Center Freq 2.412000000		SENSE:INT Center Freq: 2.412000000 Trig: Free Run Av VAtten: 40 dB	ALIGN AUTO GHz g Hold: 10/10	09:59:54 P Radio Std Radio Dev		Frequ	ency
Ref Offset 1 dB 0 dB/div Ref 25.00 dBm							
.og 15.0 5.00		alfractury produces have been	white			Cen 2.412000	ter Fre 0000 GH
5.00			- Know				
25.0 WWWWWWWWWWWWWW			- Wurry	ulyhanana (jira	WW WWWWWW		
55.0							
55.0					n 40 Milia		
Res BW 100 kHz		#VBW 300 kHz		Sweep	n 40 MHz 3.867 ms		CF Ste
Occupied Bandwidth		Total Powe	er 22.5	dBm		<u>Auto</u>	Ма
16	.396 MH	Z				Fre	q Offs
Transmit Freq Error	82.235 kH	z OBW Powe	er 99	.00 %			0 H
x dB Bandwidth	15.73 MH	z xdB	-6.1	00 dB			

4.5.2.1.5 802.11G_ Middle Channel





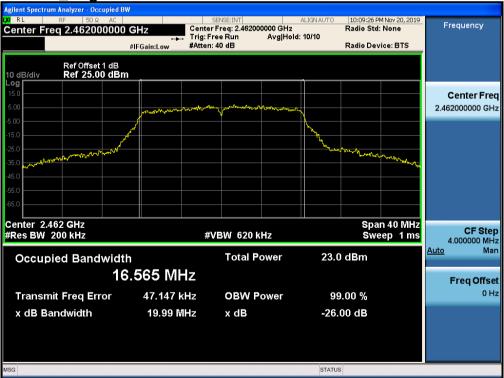
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	Trig:	er Freq: 2.437000000 GHz Free Run Avg Hol n: 40 dB	d: 10/10	io Std: None io Device: BTS	Frequency
Ref Offset 1 dB dB/div Ref 25.00 dBm					
99	portronterman formation	Any verheaden handraden	<u> </u>		Center Fre 2.437000000 G⊦
00 .0	/				
i.0 0 Marker Marker Art			Www.dayang	wathan work who	
i.0 i.0					
enter 2.437 GHz Res BW 100 kHz	#	¢VBW 300 kHz	Sw	Span 40 MHz eep 3.867 ms	CF Ste 4.000000 M⊦
Occupied Bandwidt		Total Power	22.8 dB	m	<u>Auto</u> Ma
16	.390 MHz				Freq Offs
Transmit Freq Error	-89.012 kHz	OBW Power	99.00	%	01
x dB Bandwidth	15.57 MHz	x dB	-6.00 d	В	

4.5.2.1.6 802.11G_ Highest Channel





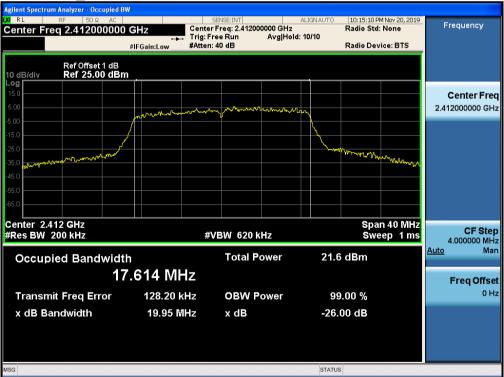
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RL RF 50Ω AC Center Freq 2.462000000	Trig	SENSE:INT hter Freq: 2.462000000 GH: J: Free Run Avg Ho ren: 40 dB	ALIGNAUTO z bid: 10/10	10:09:18 P Radio Std: Radio Dev		Frequer	тсу
Ref Offset 1 dB Ref 25.00 dBm							
• g 15.0 5.00	Junhanlenander	erron prolocotor how	why			Cente 2.4620000	
15.0							
25.0 35.0 WWWWWWWWWWW			սկու	Mary Mary	and the second second		
56.0							
enter 2.462 GHz Res BW 100 kHz		#VBW 300 kHz		Spa Sweep	n 40 MHz 3.867 ms		F Ste
Occupied Bandwidth		Total Power	22.9	dBm		4.0000 <u>Auto</u>	00 MH Ma
16	.362 MHz					Freq	Offse
Transmit Freq Error	35.202 kHz	OBW Power	99	.00 %			0 H
x dB Bandwidth	15.15 MHz	x dB	-6.	00 dB			
SG			STATUS				

4.5.2.1.7 802.11N20_Lowest Channel





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RL RF 50Ω AC center Freq 2.412000000	Trig	SENSE:JINT Iter Freq: 2.412000000 G I: Free Run Avg en: 40 dB	ALIGN AUTO Hz Hold: 10/10	Radio Std Radio Dev		Frequ	ency
Ref Offset 1 dB 0 dB/div Ref 25.00 dBm	_						
•g 5.0 .00	- Inshelmal	, Ing probably marked	hulfer			Cen 2.41200	ter Fre
5.0			- by				
5.0 www.www.www.www.www.			۰ ۰ ۰۰	an hour hour	Honor Wary		
5.0							
enter 2.412 GHz Res BW 100 kHz		#VBW 300 kHz			n 40 MHz 3.867 ms		CF Ste
Occupied Bandwidth	ı	Total Power	21.	8 dBm		<u>Auto</u>	M
17	.534 MHz					Fre	q Offs
Transmit Freq Error	95.660 kHz	OBW Power	• 9	9.00 %			01
x dB Bandwidth	16.05 MHz	x dB	-6	.00 dB			
3			STATU	IS			

4.5.2.1.8 802.11 N20_ Middle Channel





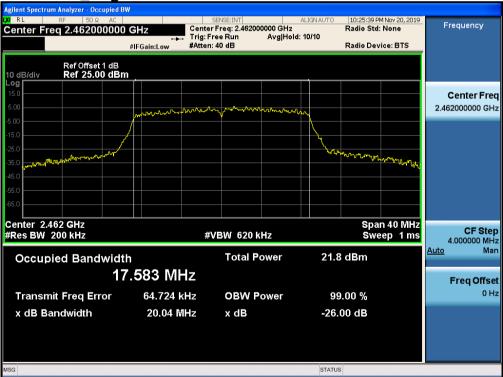
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enter Freq 2.43700000	u uniz 	SENSE:INT er Freq: 2.437000000 GHz Free Run Avg Ho n: 40 dB	ALIGN AUTO	10:20:25 P Radio Std Radio Dev		Frequ	ency
Ref Offset 1 dB 0 dB/div Ref 25.00 dB							
9 g	mlun an produce	In particulour discourse				Cen 2.437000	terFre
00 5.0 5.0	лана (1997) При страна (1997) При страна (1997)						
0.0 0 			՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝՝	ᢞᢇᡩᡃᢤᠺᡰᠯᠰᢩᡘ᠈ᢔ			
enter 2.437 GHz				Spa	n 40 MHz		
Res BW 100 kHz	#	≇VBW 300 kHz			3.867 ms		CF Ste
Occupied Bandwid	th 7.535 MHz	Total Power	21.7	′ dBm		<u>Auto</u>	Ma
	-65.837 kHz	OBW Power	00	9.00 %		Fre	qOffs 01
Transmit Freq Error x dB Bandwidth	16.09 MHz	x dB		00 dB			
3			STATUS	2			

4.5.2.1.9 802.11 N20_ Highest Channel





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center Freq 2.462000000	Trig: I	SENSE:INT Pr Freq: 2.462000000 GHz Free Run Avg Hold h: 40 dB	Radio St 1: 10/10	PM Nov 20, 2019 cd: None evice: BTS	Frequency
0 dB/div Ref Offset 1 dB Ref 25.00 dBr	n				
• 9 15.0 5.00	maluntantantan	hon particular hand have a start			Center Fre 2.462000000 G⊦
25.0	A		Whenmarin		
50				a free how we want	
enter 2.462 GHz Res BW 100 kHz	#	VBW 300 kHz		an 40 MHz 3.867 ms	CF Ste 4.000000 M⊦
Occupied Bandwidt	th 7.544 MHz	Total Power	21.9 dBm		<u>Auto</u> Ma
Transmit Freq Error	46.431 kHz	OBW Power	99.00 %		Freq Offs 0 H
x dB Bandwidth	15.94 MHz	x dB	-6.00 dB		
- Dec			STATUS		



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Test Requirement: 47 CFR Part 15C Section 15.247 (e) Test Method: ANSI C63.10 :2013 Section 11.10.2 Spectrum Analyzer E.U.T 0 Test Setup: Non-Conducted Table **Ground Reference Plane** Test Instruments: Refer to section 5.10 for details Exploratory Test Mode: Transmitting with all kind of modulations, data rates Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; Final Test Mode: 6Mbps of rate is the worst case of 802.11G; 6.5Mbps of rate is the worst case of 802.11N(HT20); Limit: ≤8.00dBm/3kHz Pass Test Results:

4.6 Power Spectral Density

4.6.1 Test Results

1000				
Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-7.28	≤8.00	Pass
802.11B	Middle	-7.55	≤8.00	Pass
	Highest	-6.75	≤8.00	Pass
	Lowest	-9.71	≤8.00	Pass
802.11G	Middle	-9.88	≤8.00	Pass
	Highest	-9.70	≤8.00	Pass
	Lowest	-10.48	≤8.00	Pass
802.11N20	Middle	-9.58	≤8.00	Pass
	Highest	-10.72	≤8.00	Pass



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4.6.2 Test plots

4.6.2.1 ANT1

4.6.2.1.1 802.11B_Lowest Channel



4.6.2.1.2 802.11B_ Middle Channel





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4.6.2.1.3 802.11B_ Highest Channel gilent Spectrum Analyzer - The duty cycle factor 0 dB adde ALIGN A d RL SENSE:INT 0 08:19:31 PM Nov 20, 2019 Frequency Center Freq 2.462000000 GHz Avg Type: Log-Pwr Avg|Hold: 20/20 TRACE 1 2 3 4 5 6 TYPE M Trig: Free Run PNO: Fast ↔→ IFGain:Low Atten: 16 dB Mkr1 2.462 594 GHz -6.745 dBm Auto Tune Ref Offset 1 dB Ref 7.00 dBm 10 dB/div **Center Freq** 2 462000000 GHz Start Freq 2.442000000 GHz Stop Freq 2.482000000 GHz CF Step 4.000000 MHz Auto Man **Freq Offset** 0 Hz Stop 2.48200 GHz Sweep 4.218 s (3000 pts) Start 2.44200 GHz #Res BW 3.0 kHz #VBW 10 kHz

4.6.2.1.4 802.11G_Lowest Channel





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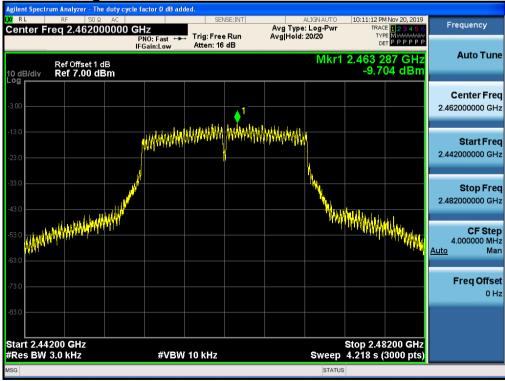


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4.6.2.1.5 802.11G_ Middle Channel



4.6.2.1.6 802.11G_ Highest Channel





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4.6.2.1.7 802.11N20_Lowest Channel



4.6.2.1.8 802.11 N20_ Middle Channel





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4.6.2.1.9 802.11 N20_ Highest Channel





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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		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20) ;		
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.		
Instruments Used:	Refer to section 5.10 for details		
Test Results:	Pass		

4.7 Band-edge for RF Conducted Emissions



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4.7.1 Test plots

4.7.1.1 ANT1

4.7.1.1.1 802.11B_Lowest Channel



4.7.1.1.2 802.11B_ Highest Channel





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4.7.1.1.3 802.11G_Lowest Channel



4.7.1.1.4 802.11G_ Highest Channel



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4.7.1.1.5 802.11N20_Lowest Channel



4.7.1.1.6 802.11 N20_ Highest Channel



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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			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
	Through Pre-scan, find the			
Final Test Mode:	1Mbps of rate is the worst case of 802.11B;			
	6Mbps of rate is the worst case of 802.11G;			
	6.5Mbps of rate is the worst case of 802.11N(HT20);			
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.			
Instruments Used:	Refer to section 5.10 for details			
Test Results:	Pass			

4.8 **RF Conducted Spurious Emissions**



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4.8.1 Test plots

4.8.1.1 ANT1

4.8.1.1.1 802.11B_Lowest Channel





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Res BW 10 a glent Spectrum RL enter Free 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Analyzer - Swept SA RF 50 2 AC q 1.165000000 tef Offset 1 dB tef 20.00 dBm) GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGNAUTC Avg Type: Log-Pwi Avg[Hold>50/50	285.4 ms (3001 pts DC Coupled 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:44:46 PM Nov 20, 2019 TRACE 12 3 4 5 TYPE Microsoft 0 05:40 TRACE 12 5 TYPE Microsoft 0 05:40 TRACE 12 5 TYPE Microsoft 0	Frequency Auto Tur Center Frequency 1.165000000 Gl Start Frequency 30.000000 Ml Stop Frequency 2.300000000 Gl CF Ster 227.000000 Ml
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Res BW 10 General Spectrum RL enter Free Gener Free Gener Free Gener Free Gener Free Gener Free Gener Free Gener Free Gener Free Gener Free Gener Free	Analyzer - Swept SA RF 50 2 AC q 1.165000000 tef Offset 1 dB tef 20.00 dBm) GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGNAUTC Avg Type: Log-Pwi Avg[Hold>50/50	285.4 ms (3001 pts DC Coupled DC Coupled TRACE [1 2 3 4 5 TYPE [1 2 3	Frequency Auto Tur Center Frequency 1.165000000 GH Start Frequency 30.000000 MH Stop Frequency 2.300000000 GH CF Step 227.000000 MH
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Res BW 10 G G G G G G G G G G G G G	kHz Analyzer - Swept SA RF SO 2 AC q 1.165000000 tef Offset 1 dB tef 20.00 dBm isolar and teget 1 dB teget 20.00 dBm isolar and teget 2 dB teget 2 dB	PRO: Fast IFGain:Low	SENSE:INT	ALIGNAUTC Avg Type: Log-Pwr Avg Hold>50/50	285.4 ms (3001 pts DC Coupled DC Coupled TRACE [1 2 3 4 5 TYPE [1 2 3	Frequency Auto Tur Center Fre 1.165000000 GF Start Fre 30.000000 MF Stop Fre 2.30000000 GF CF Ste 227.000000 MF Auto Mit Freq Offs 0 F

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	rum Analyzer - Swept SA RF 50 Ω AC		SENSE:INT	ALIGNAUTO	05:44:58 PM Nov 20, 2019	
	req 2.35000000			Avg Type: Log-Pwr Avg Hold>200/200	TRACE 1 2 3 4 5 6 TYPE M	Frequency
	Ref Offset 1 dB	IFGain:Low	#Atten: 40 dB	Mk	r1 2.397 0 GHz	Auto Tur
0 dB/div ^{og} r	Ref 20.00 dBm				-38.409 dBm	
						Center Fre
10.0						2.350000000 GH
						Start Fre 2.30000000 GH
0.0					-11.73 dBm	2.00000000000
20.0						Stop Fre
:0.0						2.400000000 GH
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50.0						01
0.0						
tart 2.3	0000 GHz				Stop 2.40000 GHz	
Res BW	100 kHz	#VBW	300 kHz		.600 ms (1001 pts)	
Res BW	/ 100 kHz	#VBW	300 kHz	Sweep 9		
Res BW sg gilent Spect RL	100 kHz trum Analyzer - Swept SA RF 50 Ω AC		300 kHz	STATUS ALIGN AUTO	05:45:07 PM Nov 20, 2019	Frequency
Res BW sg gilent Spect RL	T 100 KHZ trum Analyzer - Swept SA	GHz PN0: Fast	SENSE:INT	STATUS	05:45:07 PM Nov 20, 2019	Frequency
Res BW sg gilent Spect RL	rum Analyzer - Swept SA RF 50.0. AC Freq 2.491750000	GHz	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200	05:45:07 PM Nov 20, 2019 TRACE 2 3 4 5 6 TYPE MIMANANA DET P P P P P	
Res BW gilent Spect RL center F	100 kHz trum Analyzer - Swept SA RF 50 Ω AC	GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200	05:45:07 PM Nov 20, 2019	
Res BW sg gilent Spect RL	100 kHz rum Analyzer - Swept SA RF 50 Ω AC F Freq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200	05:45:07 PM Nov 20, 2019 TRACE []] 23 4 5 6 TYPE [] ET P P P P P DET P P P P P 485 590 0 GHZ	Auto Tur
Res BW gilent Spect RL center F	100 kHz rum Analyzer - Swept SA RF 50 Ω AC F Freq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200	05:45:07 PM Nov 20, 2019 TRACE []] 23 4 5 6 TYPE [] ET P P P P P DET P P P P P 485 590 0 GHZ	Auto Tur Center Fre
Res BW gilent Spect RL enter F	100 kHz rum Analyzer - Swept SA RF 50 Ω AC F Freq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200	05:45:07 PM Nov 20, 2019 TRACE []] 23 4 5 6 TYPE [] ET P P P P P DET P P P P P 485 590 0 GHZ	Auto Tur Center Fre
Res BW	100 kHz rum Analyzer - Swept SA RF 50 Ω AC F Freq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200	05:45:07 PM Nov 20, 2019 TRACE []] 23 4 5 6 TYPE [] ET P P P P P DET P P P P P 485 590 0 GHZ	Auto Tur Center Fre 2.491750000 GH Start Fre
Res BW	100 kHz rum Analyzer - Swept SA RF 50 Ω AC F Freq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200	05:45:07 PM Nov 20, 2019 TRACE []] 23 4 5 6 TYPE [] ET P P P P P DET P P P P P 485 590 0 GHZ	Frequency Auto Tur Center Fre 2.491750000 GH Start Fre 2.483500000 GH
Res BW silent Spect RL senter F 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz rum Analyzer - Swept SA RF 50 Ω AC F Freq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200	05:45:07 FM Nov 20,2019 TRACE 12:3:4:5:0 TYPE MINOVANN OF P P P P P 485:590 0 GHz -48.281 dBm	Auto Tur Center Fre 2.491750000 Gł Start Fre 2.483500000 Gł
Res BW Galaria Spect RL	100 kHz rum Analyzer - Swept SA RF 50 Ω AC F Freq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200	05:45:07 FM Nov 20,2019 TRACE 12:3:4:5:0 TYPE MINOVANN OF P P P P P 485:590 0 GHz -48.281 dBm	Auto Tur Center Fre 2.491750000 GH Start Fre
Res BW Galerian Galer	100 kHz rum Analyzer - Swept SA RF 50 Ω AC F Freq 2.491750000 Ref Offset 1 dB	GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200	05:45:07 FM Nov 20,2019 TRACE 12:3:4:5:0 TYPE MINOVANN OF P P P P P 485:590 0 GHz -48.281 dBm	Auto Tur Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre
Res BW Galaria Spect RL	rum Analyzer - Swept SA RF 50 Ω AC Freq 2.491750000 Ref Offset 1 dB Ref 20.00 dBm	GHz PN0: Fast	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200	05:45:07 FM Nov 20,2019 TRACE 12:3:4:5:0 TYPE MINOVANN OF P P P P P 485:590 0 GHz -48.281 dBm	Auto Tur Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz	GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 Mkr1 2	05:45:07 FM Nov 20,2019 TRACE D 24 5 G TYPE M MANAWAY CET P P P P P 485 590 0 GHz -48.281 dBm -1173:000	Auto Tur Center Fre 2.491750000 GH Start Fre 2.4835500000 GH Stop Fre 2.500000000 GH CF Ste 1.650000 MH
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz	GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200	05:45:07 FM Nov 20,2019 TRACE D 24 5 G TYPE M MANAWAY CET P P P P P 485 590 0 GHz -48.281 dBm -1173:000	Auto Tur Center Fre 2.491750000 GH Start Fre 2.483500000 GH 2.500000000 GH CF Ste 1.650000 MH Auto Ma
Res BW G G G G G G G G G G G G G G G G G G G	100 kHz	GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 Mkr1 2	05:45:07 FM Nov 20,2019 TRACE D 24 5 G TYPE M MANAWAY CET P P P P P 485 590 0 GHz -48.281 dBm -1173:000	Auto Tur Center Fre 2.491750000 GH Start Fre 2.483500000 GH 2.500000000 GH 2.500000000 GH 1.650000 MH Auto Ma
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Res BW 3G glient Spect RL center F 99 10.0 90 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	GHz PN0: Fast IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>200/200 Mkr1 2	05:45:07 FM Nov 20,2019 TRACE D 24 5 G TYPE M MANAWAY CET P P P P P 485 590 0 GHz -48.281 dBm -1173:000	Auto Tur Center Fre 2.491750000 GH Start Fre 2.483500000 GH 2.500000000 GH 2.500000000 GH 1.650000 MH Auto Ma
Res BW sc glient Spect RL center F	100 kHz	GHz PN0: Fast IFGain:Low	SENSE:INT	Aug Type: Log-Pwr Avg Type: Log-Pwr Avg Hold:>200/200 Mkr1 2	05:45:07 FM Nov 20, 2019 ITRACE [] 23 4 5 G TYPE MANNANN GET P P P P P 485 590 0 GHz -48.281 dBm -1173:600 -1173:600 -1173:600	Auto Tur Center Fre 2.491750000 GH Start Fre 2.483500000 GH 2.500000000 GH 2.500000000 GH 1.650000 MH Auto Ma
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Agilent Spectr	r <mark>um Analyzer - Sw</mark> e RF 50 Ω			CEN	ISE:INT		ALIGNAUTO	05:45:41.0	4 Nov 20, 2019	
	req 14.5000	00000 G	Hz NO: Fast 🖵 Gain:Low		Run		: Log-Pwr		E 1 2 3 4 5 6 E M	Frequency
10 dB/div	Ref Offset 1 d Ref 20.00 d						Μ	kr1 26.4 -39.3	70 GHz 99 dBm	Auto Tune
10.0										Center Free 14.500000000 GH
0.00									-11.73 dBm	Start Fre 2.500000000 GH
20.0										Stop Fre 26.500000000 G⊦
40.0	a sa		, darihi an dala	and the state of the	Martan Martan Martan Martan	al and a state of the state of	te station The station		1 Asiatopetikat	CF Ste 2.400000000 GH <u>Auto</u> Ma
i0.0										Freq Offs 0 H
70.0	GHz							Stop 2	6.50 GHz	
	100 kHz		#VBW	300 kHz			Sweep	2.294 s (8001 pts)	

4.8.1.1.2 802.11B_ Middle Channel





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ter Freq 79.500 kHz		SENSEINT	ALIGNAUTO Avg Type: Log-Pwr	08:02:13 PM Nov 20, 2019 TRACE	Frequency
iter Freq 75,500 KHz	PNO: Wide 😱 IFGain:Low	Trig: Free Run #Atten: 26 dB	Avg Hold:>50/50	IRACE 12045 TYPE MVANSMAN DET PPPPP	
Ref Offset 1 dB				Mkr1 9.000 kHz -49.260 dBm	Auto Tur
0					Center Fre 79.500 ki
o				21-30 dEn	Start Fre 9.000 ki
ά 1					Stop Fr 150.000 ki
1 Winny Vali any de la comi de la	Mullinger a	ð r			CFSte 14.100 ki Auto M
	1 V K K	V & Alander Planter	~Pullelilyorshivmoredy	andre broken periode	Freq Offs 0
art 9.00 kHz les BW 1.0 kHz	#VBW	3.0 kHz	Sweep	Stop 150.00 kHz 134.8 ms (601 pts)	
les BW 1.0 kHz		3.0 kHz			
es BW 1.0 kHz ent Spectrum Analyzer - Swept SA RL RF 53% ADC		3.0 kHz	ALIGNAUTO	134.8 ms (601 pts)	Frequency
es BW 1.0 kHz ent Spectrum Analyzer - Swept SA RL RF 50% ADC			sutate	134.8 ms (601 pts)	Frequency
es BW 1.0 kHz ent Spectrum Analyzer - Swept SA RL RE STRAADC Inter Freq 15.075000 Ref Offset 1 dB	MHz PNO: Fast 😱 IFGain:Low	SENSE INT	ALIGNAUTO AVG Type: Log-Pwr	134.8 ms (601 pts)	
es BW 1.0 kHz ent Spectrum Analyzer - Swept SA RL RE Strach, DC Inter Freq 15.075000 Ref Offset 1 dB Ref 20.00 dBm	MHz PNO: Fast 😱 IFGain:Low	SENSE INT	ALIGNAUTO AVG Type: Log-Pwr	134.8 ms (601 pts) DC Coupled D8:02:35 PM/Nor 20, 2019 TRACE 02:145 TRACE 02:145	Auto Tu Center Fr
es BW 1.0 kHz ent Spectrum Analyzer - Swept SA RL RE Sta A,bc nnter Freq 15.075000 l Ref Offset 1 dB Ref 20.00 dBm	MHz PNO: Fast 😱 IFGain:Low	SENSE INT	ALIGNAUTO AVG Type: Log-Pwr	134.8 ms (601 pts) DC Coupled D8:02:35 PM/Nor 20, 2019 TRACE 02:145 TRACE 02:145	Auto Tu Center Fr 15.075000 M Start Fr
es BW 1.0 kHz ent Spectrum Analyzer - Swept SA RL RF 9000 ADC onter Freq 15.075000 d Ref Offset 1 dB dB/div Ref 20.00 dBm	MHz PNO: Fast 😱 IFGain:Low	SENSE INT	ALIGNAUTO AVG Type: Log-Pwr	134.8 ms (601 pts) DC Coupled D8:02:35 PM/Nor 20, 2019 TRACE 02:145 TRACE 02:145	Auto Tur Center Fr 15.075000 M Start Fr 150.000 k Stop Fr
es BW 1.0 kHz ent Spectrum Analyzer - Swept SA RL AF SDO ADC onter Freq 15.075000 dBm Ref Offset 1 dB dB/div Ref 20.00 dBm	MHz PNO: Fast 😱 IFGain:Low	SENSE INT	ALIGNAUTO AVG Type: Log-Pwr	134.8 ms (601 pts) DC Coupled DB:02:35 FM/Nbr 20, 2019 TRACE 02:45 FM TRACE 02:45 FM TRAC	Auto Tur Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF St 2.985000 M
Ref Offset 1 dB Ref Offset 1 dB Ref 20.00 dBm	MHz PNO: Fast	SENSEINT Trig: Free Run #Atten: 40 dB	ALIGNAUTO AVG Type: Log-Pwr	134.8 ms (601 pts) DC Coupled DB:02:35 FM Nby 20, 2019 TRACE 02:45 TRACE 02:45	Auto Tur Center Fri 15.075000 M Start Fri 150.000 k Stop Fri 30.000000 M CF Sto 2.985000 M Auto M
es BW 1.0 kHz	MHz PNO: Fast	SENSEINT Trig: Free Run #Atten: 40 dB	ALISNAUTO Avg Type: Log-Pwr Avg Held:>50/60	134.8 ms (601 pts) DC Coupled DB:02:35 FM Nby 20, 2019 TRACE 02:45 TRACE 02:45	Auto Tur Center Fr 15.075000 M Start Fr 150.000 k Stop Fr 30.000000 M CF Sta 2.985000 M

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	rum Analyzer - Sv									
	RF 50 s req 1.1650		iHz		NSE:INT	Avg Type	alignauto : Log-Pwr	08:02:57 Pl TRA	M Nov 20, 2019 CE 123456	Frequency
			PNO: Fast 🖵 FGain:Low	Trig: Free #Atten: 40	≘Run)dB	Avg Hold:	>50/50	D	CE 123456 PE MWWWWW ET P P P P P P	
	Ref Offset 1	dB					Mkr	1 2.017	10 GHz	Auto Tu
10 dB/div Log	Ref 20.00	dBm						-46.1	45 dBm	
										Center Fr
10.0										1.165000000 G
0.00										
										Start Fr 30.000000 M
-10.0										30.000000 1
-20.0										Stop Fr
										2.300000000 G
-30.0										
-40.0								1		CF St 227.000000 M
						diame dia di succ	a such a s		altantes a sub-states	Auto N
-50.0								a surface in the second se		
-60.0										Freq Offs 0
-70.0										Ű
-70.0										
								.		
Start 30 N	ИНz							Stop 2	.300 GHz	
Start 30 M #Res BW			#VBW	300 kHz			Sweep 2	Stop 2 17.1 ms (.300 GHz (8001 pts)	
			#VBW	300 kHz			Sweep 2	17.1 ms (.300 GHz (8001 pts)	
#Res BW ^{MSG} Agilent Spectr	100 kHz rum Analyzer - Sv		#VBW				STATUS	17.1 ms ((8001 pts)	
#Res BW ISG Agilent Specto X/ RL	100 kHz	2 AC 00000 G	Hz	SEM	VSE:INT		STATUS	17.1 ms ((8001 pts)	Frequency
#Res BW ISG Agilent Specto X/ RL	100 kHz rum Analyzer - Sv RF 50 S	2 AC 00000 G		SEM	NSE:INT	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	17.1 ms (08:03:09 P TRA TY D	(8001 pts) MNov 20, 2019 E 1 2 3 4 5 6 P P P P P P	
#Res BW Agilent Specto X RL Center F	100 kHz rum Analyzer - Sv RF 50 9 req 2.3500 Ref Offset 1	2 AC 000000 G I dB	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	17.1 ms (08:03:09 Pi TRA TY D (r1 2.38	(8001 pts)	Frequency Auto Tu
#Res BW Isg Igilent Spectr R RL Center F	100 kHz rum Analyzer - Sv RF 50 g req 2.3500	2 AC 000000 G I dB	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	17.1 ms (08:03:09 Pi TRA TY D (r1 2.38	8001 pts)	Auto Tu
#Res BW Isg Igilent Spectr R RL Center F	100 kHz rum Analyzer - Sv RF 50 9 req 2.3500 Ref Offset 1	2 AC 000000 G I dB	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	17.1 ms (08:03:09 Pi TRA TY D (r1 2.38	8001 pts)	
Kes BW Kes BW Kest Spect Center F 10 dB/div 10 dB/div	100 kHz rum Analyzer - Sv RF 50 9 req 2.3500 Ref Offset 1	2 AC 000000 G I dB	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	17.1 ms (08:03:09 Pi TRA TY D (r1 2.38	8001 pts)	Auto Tu Center Fr
#Res BW	100 kHz rum Analyzer - Sv RF 50 9 req 2.3500 Ref Offset 1	2 AC 000000 G I dB	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	17.1 ms (08:03:09 Pi TRA TY D (r1 2.38	8001 pts)	Auto Tu Center Fr
#Res BW tsg	100 kHz rum Analyzer - Sv RF 50 9 req 2.3500 Ref Offset 1	2 AC 000000 G I dB	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	17.1 ms (08:03:09 Pi TRA TY D (r1 2.38	8001 pts)	Auto Tu Center Fr 2.35000000 G
#Res BW Isg Iglient Spectr R IC RL IC Center F IC dB/div 0 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0	100 kHz rum Analyzer - Sv RF 50 9 req 2.3500 Ref Offset 1	2 AC 000000 G I dB	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	17.1 ms (08:03:09 Pi TRA TY D (r1 2.38	(8001 pts) M Nov 20, 2019 E 1 2 3 4 5 6 PE M WWWWW E P P P P P 2 1 GHz 93 dBm	Auto Tu Center Fr 2.35000000 G Start Fr
#Res BW Isg Iglient Spectr R IC RL IC Center F IC dB/div 0 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0	100 kHz rum Analyzer - Sv RF 50 9 req 2.3500 Ref Offset 1	2 AC 000000 G I dB	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	17.1 ms (08:03:09 Pi TRA TY D (r1 2.38	(8001 pts) M Nov 20, 2019 E 1 2 3 4 5 6 PE M WWWWW E P P P P P 2 1 GHz 93 dBm	Auto Tu Center Fr 2.35000000 G Start Fr 2.30000000 G Stop Fr
#Res BW Asg Agilent Spectric XI RL Zenter F 10 dB/div - og 10.0	100 kHz rum Analyzer - Sv RF 50 9 req 2.3500 Ref Offset 1	2 AC 000000 G I dB	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	17.1 ms (08:03:09 Pi TRA TY D (r1 2.38	(8001 pts) M Nov 20, 2019 E 1 2 3 4 5 6 PE M WWWWW E P P P P P 2 1 GHz 93 dBm	Auto Tu Center Fr 2.35000000 G Start Fr 2.30000000 G
#Res BW tsg	100 kHz rum Analyzer - Sv RF 50 9 req 2.3500 Ref Offset 1	2 AC 000000 G I dB	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	08:03:09 PI TRAI TRAI CIT 2.38 -47.9	(8001 pts) M Nov 20, 2019 E 1 2 3 4 5 6 PE M WWWWW E P P P P P 2 1 GHz 93 dBm	Auto Tu Center Fr 2.35000000 G Start Fr 2.30000000 G Stop Fr
#Res BW Asg Agliont Spectric 10 dB/div 0 000	100 kHz rum Analyzer - Sv RF 50 9 req 2.3500 Ref Offset 1	2 AC 000000 G I dB	Hz PNO: Fast 😱	SEM Trig: Free	NSE:INT	Avg Type	ALIGNAUTO 2: Log-Pwr 200/200	08:03:09 PI TRAI TRAI CIT 2.38 -47.9	(8001 pts) M Nov 20, 2019 E 1 2 3 4 5 6 PE M WWWWW E P P P P P 2 1 GHz 93 dBm	Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G
#Res BW tsg	100 kHz	2 AC 00000 G dB dBm	Hz PNO: Fast 😱	Trig: Free #Atten: 40		Avg Type Avg Hold:	STATUS	17.1 ms (08:03:09 Pi TRA TY D (r1 2.38	(8001 pts) M Nov 20, 2019 E 1 2 3 4 5 6 PE M WWWWW E P P P P P 2 1 GHz 93 dBm	Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G
#Res BW tsg	100 kHz	2 AC 00000 G dB dBm	Hz PNO: Fast CP FGain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold:	STATUS	08:03:09 PI TRAI TRAI CIT 2.38 -47.9	(8001 pts) M Nov 20, 2019 E 1 2 3 4 5 6 PE M WWWWW E P P P P P 2 1 GHz 93 dBm	Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G
#Res BW Assistant Applent Spectric Applent Spectre Applent Spectre <	100 kHz	2 AC 00000 G dB dBm	Hz PNO: Fast CP FGain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold:	STATUS	08:03:09 PI TRAI TRAI CIT 2.38 -47.9	(8001 pts) M Nov 20, 2019 E 1 2 3 4 5 6 PE M WWWWW E P P P P P 2 1 GHz 93 dBm	Auto Tu Center Fr 2.350000000 G Start Fr 2.30000000 G Stop Fr 2.40000000 G CF St 10.00000 M Auto N
#Res BW Asg Agitant Spectric Agitant Spectric Center F 10 dB/div 000 -10.0 -20.0 -30.0 -40.0	100 kHz	2 AC 00000 G dB dBm	Hz PNO: Fast CP FGain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold:	STATUS	08:03:09 PI TRAI TRAI CIT 2.38 -47.9	(8001 pts) M Nov 20, 2019 E 1 2 3 4 5 6 PE M WWWWW E P P P P P 2 1 GHz 93 dBm	Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF St 10.000000 M Auto M
#Res BW isis igilant Spectric Igilant Spectric In a B/div O dB/div O dB/div 0 a B/div	100 kHz	2 AC 00000 G dB dBm	Hz PNO: Fast CP FGain:Low	Trig: Free #Atten: 40		Avg Type Avg Hold:	STATUS	08:03:09 P TRAI	(8001 pts)	Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF St 10.000000 M Auto M
#Res BW Asci Interference Igliant Spectric Interference Interference Interference Interfer	100 kHz	2 AC 00000 G dB dBm	Hz PNO: Fast	Trig: Free #Atten: 40		Avg Type Avg Hold:	ALIGNAUTO : Log-Pwr > 200/200 MH	17.1 ms (08:03:09 P TRAI TRAI 0 (r1 2.38 -47.9 1 stop 2.44	(8001 pts) M Nov 20, 2019 E 1 2 3 4 5 6 PE M WWWWW E P P P P P 2 1 GHz 93 dBm	Auto Tu Center Fr 2.350000000 G Start Fr 2.300000000 G Stop Fr 2.400000000 G CF St 10.000000 M Auto M

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	rum Analyzer - Sw										
	RF 50 ຊ req 2.4917		Hz		ISE:INT	Avg Type	ALIGNAUTO : Log-Pwr	08:03:18 P	M Nov 20, 2019	Frequ	ency
		P	PNO: Fast 😱 Gain:Low	Trig: Free #Atten: 40	Run dB	Avg Hold:	>200/200	TY D	CE 1 2 3 4 5 6 PE MWWWWW ET P P P P P P		
	Ref Offset 1	dB					Mkr1 2	.485 86	5 0 GHz	Au	to Tune
10 dB/div Log	Ref 20.00					_		-48.8	83 dBm		
										Cen	ter Freq
10.0										2.49175	0000 GHz
0.00											
0.00										St	art Freq
-10.0									-11.30 dBm	2.48350	0000 GHz
20.0											
-20.0											op Freq
-30.0										2.50000	0000 GHz
											CF Step
-40.0	▲1									1.650	0000 MHz
-50.0 "ესუ იკი	volgenty on al maline	مى ئە <mark>رىلە ئەرى</mark> تە	un and and and and	human	- Anora da	๛๛ไ๛๛ๅ๛๛๛ไ๛๛	<u>ሙ</u> ለሆኑ እስ ፈ ^ታ	h Ma- arton Ara P		<u>Auto</u>	Man
						n of our second	-9-14- 19-114-			Ere	q Offset
-60.0											0 Hz
-70.0											
	33500 GHz						S	stop 2.50	0000 GHz		
#Res BW	100 kHz		#VBW	300 kHz			Sweep	1.600 ms	(601 pts)		
									· · · ·		
MSG							STATUS	6			
Agilent Spectr	r <mark>um Analyzer - Sw</mark> RF ସେହ			SEN	SE:INT			08:03:52 P	M Nov 20, 2019		
Agilent Spectr		2 AC 000000 C					STATUS	08:03:52 P	M Nov 20, 2019	Frequ	ency
Agilent Spectr	RF 50 Ω	2 AC 000000 (F	GHZ PNO: Fast 🌩 Gain:Low		Run	Avg Type	ALIGN AUTO a: Log-Pwr : 10/10	08:03:52 PI TRA TY D	M Nov 20, 2019 E 1 2 3 4 5 6 P P P P P P		
Agilent Spectr X RL Center F	RF 50 ଜ req 14.500 Ref Offset 1	2 AC 000000 C F IF	PNO: Fast 😱	Trig: Free	Run	Avg Type	ALIGN AUTO a: Log-Pwr : 10/10	08:03:52 PI TRAM TY D kr1 26.4	M Nov 20, 2019 EE 1 2 3 4 5 6 PE MWWW FT P P P P P 91 GHz		
Agilent Spectr	RF 50 ຜ req 14.500	2 AC 000000 C F IF	PNO: Fast 😱	Trig: Free	Run	Avg Type	ALIGN AUTO a: Log-Pwr : 10/10	08:03:52 PI TRAM TY D kr1 26.4	M Nov 20, 2019 E 1 2 3 4 5 6 P P P P P P	Au	to Tune
Agilent Spectr XIRL Center F 10 dB/div	RF 50 ଜ req 14.500 Ref Offset 1	2 AC 000000 C F IF	PNO: Fast 😱	Trig: Free	Run	Avg Type	ALIGN AUTO a: Log-Pwr : 10/10	08:03:52 PI TRAM TY D kr1 26.4	M Nov 20, 2019 EE 1 2 3 4 5 6 PE MWWW FT P P P P P 91 GHz	Au	to Tune ter Freq
Agilent Spectr	RF 50 ଜ req 14.500 Ref Offset 1	2 AC 000000 C F IF	PNO: Fast 😱	Trig: Free	Run	Avg Type	ALIGN AUTO a: Log-Pwr : 10/10	08:03:52 PI TRAM TY D kr1 26.4	M Nov 20, 2019 EE 1 2 3 4 5 6 PE MWWW FT P P P P P 91 GHz	Au	to Tune ter Freq
Agilent Spectr XI RL Center F Center G 10 dB/div	RF 50 ଜ req 14.500 Ref Offset 1	2 AC 000000 C F IF	PNO: Fast 😱	Trig: Free	Run	Avg Type	ALIGN AUTO a: Log-Pwr : 10/10	08:03:52 PI TRAM TY D kr1 26.4	M Nov 20, 2019 EE 1 2 3 4 5 6 PE MWWW FT P P P P P 91 GHz	Au Cen 14.50000	to Tune ter Freq 0000 GHz
Agilent Spectr XI RL Center F	RF 50 ଜ req 14.500 Ref Offset 1	2 AC 000000 C F IF	PNO: Fast 😱	Trig: Free	Run	Avg Type	ALIGN AUTO a: Log-Pwr : 10/10	08:03:52 PI TRAM TY D kr1 26.4	MNov 20, 2019 E 1 2 3 4 5 6 E MWWWW I P P P P P P 91 GHz 56 dBm	Au Cen 14.50000	to Tune ter Freq 0000 GHz art Freq
Agilent Spectr	RF 50 ଜ req 14.500 Ref Offset 1	2 AC 000000 C F IF	PNO: Fast 😱	Trig: Free	Run	Avg Type	ALIGN AUTO a: Log-Pwr : 10/10	08:03:52 PI TRAM TY D kr1 26.4	M Nov 20, 2019 EE 1 2 3 4 5 6 M WWWW FT P P P P P 91 GHz	Au Cen 14.50000	to Tune ter Freq 0000 GHz art Freq
Agilent Spectr XI RL Center F 10 dB/div Log 10.0 0.00	RF 50 ଜ req 14.500 Ref Offset 1	2 AC 000000 C F IF	PNO: Fast 😱	Trig: Free	Run	Avg Type	ALIGN AUTO a: Log-Pwr : 10/10	08:03:52 PI TRAM TY D kr1 26.4	MNov 20, 2019 E 1 2 3 4 5 6 E MWWWW P P P P P P P 91 GHz 56 dBm	Au Cen 14.50000 St 2.500000	to Tune ter Freq 2000 GHz art Freq 2000 GHz
Agilent Spectri Xi RL Center F 10 dB/div Log 10.0 -10.0	RF 50 ଜ req 14.500 Ref Offset 1	2 AC 000000 C F IF	PNO: Fast 😱	Trig: Free	Run	Avg Type	ALIGN AUTO a: Log-Pwr : 10/10	08:03:52 PI TRAM TY D kr1 26.4	MNov 20, 2019 E 1 2 3 4 5 6 E MWWWW P P P P P P P 91 GHz 56 dBm	Au Cen 14.50000 St 2.500000	to Tune ter Freq 20000 GHz art Freq 20000 GHz 20000 GHz
Agilent Spectr (X) RL Center F 10 dB/div Log 10.0 -10.0 -20.0	RF 50 ଜ req 14.500 Ref Offset 1	2 AC 000000 C F IF	NO: Fast Gain:Low	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN AUTO E: Log-Pwr 10/10	08:03:52 P TRAI TY 0 kr1 26:4 -37.9	MNov 20, 2019 E 1 2 3 4 5 6 E MWWWW P P P P P P P 91 GHz 56 dBm	Au Cen 14.500000 St 2.500000 St 26.500000	to Tune ter Freq 0000 GHz art Freq 0000 GHz 000 Freq
Agilent Spectr 20 RL Center F 10 dB/div 10 0 10 0 -10 0 -20.0	RF 50 ଜ req 14.500 Ref Offset 1	2 AC 000000 C F IF	NO: Fast Gain:Low	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN AUTO E: Log-Pwr 10/10	08:03:52 P TRAI TY 0 kr1 26:4 -37.9	MNov 20, 2019 E] 2 3 4 5 6 E MWWWWW E P P P P P 91 GHz 56 dBm 11.30 dBm	Au Cen 14.500000 St 2.500000 St 26.500000	to Tune ter Freq 20000 GHz art Freq 20000 GHz 2000 Freq 20000 GHz CF Step
Agilent Spectr (W RL Center F 10.0 10.0 -10.0 -20.0 -30.0 -40.0	RF 50 ଜ req 14.500 Ref Offset 1	2 AC 000000 C F IF	NO: Fast Gain:Low	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN AUTO E: Log-Pwr 10/10	08:03:52 P TRAI TY 0 kr1 26:4 -37.9	MNov 20, 2019 E] 2 3 4 5 6 E MWWWWW E P P P P P 91 GHz 56 dBm 11.30 dBm	Au Cen 14.500000 St 2.500000 St 26.500000	to Tune ter Freq 20000 GHz art Freq 20000 GHz 2000 GHz CF Step 20000 GHz
Agilent Spectr (X) RL Center F 10 dB/div 0.00 -10.0 -20.0 -30.0	RF 0 (14.500) Ref Offset 1 Ref 20.00	2 AC 000000 C F IF	NO: Fast Gain:Low	Trig: Free #Atten: 40	Run dB	Avg Type	ALIGN AUTO E: Log-Pwr 10/10	08:03:52 P TRAI TY 0 kr1 26:4 -37.9	MNov 20, 2019 E] 2 3 4 5 6 E MWWWWW E P P P P P 91 GHz 56 dBm 11.30 dBm	Au Cen 14.50000 St 2.50000 St 26.50000 Auto	to Tune ter Freq 20000 GHz art Freq 20000 GHz 2000 Freq 2000 GHz Man
Agilent Spectr (W RL Center F 10.0 10.0 -10.0 -20.0 -30.0 -40.0	RF 0 (14.500) Ref Offset 1 Ref 20.00	2 AC 000000 C F IF	NO: Fast Gain:Low	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN AUTO E: Log-Pwr 10/10	08:03:52 P TRAI TY 0 kr1 26:4 -37.9	MNov 20, 2019 E] 2 3 4 5 6 E MWWWWW E P P P P P 91 GHz 56 dBm 11.30 dBm	Au Cen 14.50000 St 2.50000 St 26.50000 Auto	to Tune ter Freq 20000 GHz art Freq 20000 GHz 2000 GHz 2000 GHz Man q Offset
Agilent Spectr X RL Center F 10.0 .0.00 .10.0 .20.0 .30.0 .40.0 .60.0	RF 0 (14.500) Ref Offset 1 Ref 20.00	2 AC 000000 C F IF	NO: Fast Gain:Low	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN AUTO E: Log-Pwr 10/10	08:03:52 P TRAI TY 0 kr1 26:4 -37.9	MNov 20, 2019 E] 2 3 4 5 6 E MWWWWW E P P P P P 91 GHz 56 dBm 11.30 dBm	Au Cen 14.50000 St 2.50000 St 26.50000 Auto	to Tune ter Freq 20000 GHz art Freq 20000 GHz 2000 GHz 2000 GHz Man q Offset
Agilent Spectr X RL Center F 10.0 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 Navin fr	RF 0 (14.500) Ref Offset 1 Ref 20.00	2 AC 000000 C F IF	NO: Fast Gain:Low	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN AUTO E: Log-Pwr 10/10	08:03:52 P TRAI TY 0 kr1 26:4 -37.9	MNov 20, 2019 E] 2 3 4 5 6 E MWWWWW E P P P P P 91 GHz 56 dBm 11.30 dBm	Au Cen 14.50000 St 2.50000 St 26.50000 Auto	to Tune ter Freq 20000 GHz art Freq 20000 GHz 2000 GHz 2000 GHz Man q Offset
Agilent Spectr 2 RL Center F 10 dB/div 10 0 10 0 -0 00 -10 0 -20 0 -30 0 -30 0 -30 0 -40 0 -50	Ref Offset 1 Ref 20.00	2 AC 000000 C F IF	NO: Fast Gain:Low	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALIGN AUTO E: Log-Pwr 10/10	03:03:52 PT TRAIT TY br Kr1 26.4 -37.9	M Nov 20, 2019 E 1 2 3 4 5 6 E MWWWWW F P P P P P 91 GHz 56 dBm 	Au Cen 14.50000 St 2.50000 St 26.50000 Auto	to Tune ter Freq 20000 GHz art Freq 20000 GHz 2000 GHz 2000 GHz Man q Offset
Agilent Spectra XI RL Center F 10 dB/div 10 0 -10 0 -20.0 -30.0 -40.0 -50.0 -50.0 -50.0	Ref Offset 1 Ref 20.00	2 AC 000000 C F IF		Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:	ALION AUTO E: Log. Pwr 10/10 M	08:03:52 P TRA TY 5 kr1 26:4 -37:9	MNov 20, 2019 E] 2 3 4 5 6 E MWWWWW E P P P P P 91 GHz 56 dBm 11.30 dBm	Au Cen 14.50000 St 2.50000 St 26.50000 Auto	to Tune ter Freq 0000 GHz art Freq 0000 GHz 000 GHz CF Step 0000 GHz

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4.8.1.1.3 802.11B_ Highest Channel





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<mark>gilent Spec</mark> t RL	RF 50 Ω 🧥 DC		SENSE:INT	ALIGN AUTO	08:20:27 PM Nov 20, 2019	
	req 15.075000 MI	PNO: Fast 🕞) Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>50/50	TRACE 1 2 3 4 5 6 TYPE M	Frequency
) dB/div	Ref Offset 1 dB Ref 20.00 dBm	IFGain:Low	#Atten: 40 dB		Mkr1 150 kHz -39.820 dBm	Auto Tun
10.0						Center Fre 15.075000 M⊦
10.0						Start Fre 150.000 k⊦
20.0					-21.74 dDm	Stop Fre
30.0						30.000000 MH
40.0 (CF Ste 2.985000 MH <u>Auto</u> Ma
:0.0						FreqOffs
70.0	elaniyilinilgediriddiddireiddi ogganaelwalinai	utuy ki ping ki ping kang ki	na fan an a	ing inig the significant sheet of the second second	hikan pisana di kalinga pisakatan kang pik	01
tart 150			<u> </u>		Stop 30.00 MHz	
Res BW	10 kHz	#VBN	/ 30 kHz		85.4 ms (3001 pts)	
50					DC Coupled	
ilent Spect	trum Analyzer - Swent SA			STATUS	L Coupled	
RL	trum Analyzer - Swept SA RF 50 Ω AC Freq 1 165000000	CH2	SENSE:INT	ALIGNAUTO	08:20:49 PM Nov 20, 2019	Frequency
RL		GHz PNO: Fast ⊊ IFGain:Low				
RL enter F	RF 50 Ω AC	PNO: Fast 🔾) Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	08:20:49 PM Nov 20, 2019 TRACE 1 2 3 4 5 6 TYPE M WWWWWW	
enter F	RF 50 Ω AC Freq 1.165000000 Ref Offset 1 dB	PNO: Fast 🔾) Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	08:20:49 PM Nov 20, 2019 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P 1 2.189 34 GHz	Auto Tur Center Fre
enter F	RF 50 Ω AC Freq 1.165000000 Ref Offset 1 dB	PNO: Fast 🔾) Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	09:20:49 FM Nov 20, 2019 TRACE 11 23 4 5 6 TYPE MOMMMM OFF P P P P P 1 2.189 34 GHz -46.719 dBm	Auto Tur Center Fre 1.16500000 GH Start Fre
enter F	RF 50 Ω AC Freq 1.165000000 Ref Offset 1 dB	PNO: Fast 🔾) Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	08:20:49 PM Nov 20, 2019 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P P P P P 1 2.189 34 GHz	Auto Tur Center Fre 1.16500000 GH Start Fre 30.000000 MH
0 dB/div 9 000	RF 50 Ω AC Freq 1.165000000 Ref Offset 1 dB	PNO: Fast 🔾) Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	09:20:49 FM Nov 20, 2019 TRACE 11 23 4 5 6 TYPE MOMMMM OFF P P P P P 1 2.189 34 GHz -46.719 dBm	Auto Tur Center Fre 1.16500000 GH Start Fre 30.000000 MH Stop Fre
RL	RF 50 Ω AC Freq 1.165000000 Ref Offset 1 dB	PNO: Fast 🔾) Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50	09:20:49 FM Nov 20, 2019 TRACE 11 23 4 5 6 TYPE MOMMMM OFF P P P P P 1 2.189 34 GHz -46.719 dBm	Auto Tur Center Fre 1.16500000 GH Start Fre 30.000000 MH Stop Fre 2.30000000 GH CF Ste 227.00000 MH
B B 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RF 50 Ω AC Freq 1.165000000 Ref Offset 1 dB	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 Mkr	09:20:49 FM Nov 20, 2019 TRACE 19 34 5 6 TYPE MMMMMMM OFT P P P P P 1 2.1189 34 GHz -46.719 dBm	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.300000000 GH CF Ste 227.000000 MH Auto Ma
RL RL eenter F 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 50 Ω AC Freq 1.165000000 Ref 0ffset 1 dB Ref 20.00 dBm	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 Mkr	09:20:49 FM Nov 20, 2019 TRACE 19 34 5 6 TYPE MMMMMMM OFT P P P P P 1 2.1189 34 GHz -46.719 dBm	Auto Tur Center Fre 1.165000000 GH Start Fre 30.000000 MH Stop Fre 2.300000000 GH 2.30000000 GH CF Ste 227.000000 MH Auto Ma
O O O 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 50 Ω AC Freq 1.165000000 Ref 0ffset 1 dB Ref 20.00 dBm	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 Mkr	08:20:49 PM Nov 20, 2019 TRACE [] 2:3 4:5 6 TYPE MAXMUNE DET P P P P P 1 2.189 34 GHz -46.719 dBm -1174 vBm -1174 vBm -1174 vBm -1174 vBm	Auto Tur Center Fre 1.165000000 GF Start Fre 30.000000 MF 2.300000000 GF 2.300000000 GF 2.27.000000 MF Auto Ma
RL enter F od B/div og 0.00	RF 50 9 AC Freq 1.165000000 Ref Offset 1 dB Ref 20.00 dBm	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 40 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>50/50 Mkr	08:20:49 PM Nov 20, 2019 TRACE 10:23 4 5 6 TYPE MAXMUTE 0ET P P P P P 1 2.189 34 GHz -46.719 dBm -1174 989 -1174 9	Auto Tur Center Fre 1.16500000 GH Start Fre 30.000000 MH Stop Fre 2.30000000 GH CF Ste 227.00000 MH

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	rum Analyzer - S RF 50			SEL	NSE:INT		ALIGN AUTO	08:21:01 P	M Nov 20, 2019	
	req 2.350	000000 GI	PNO: Fast 🖵		e Run		e: Log-Pwr	TRA TY D	CE 123456 PE MWWWWW ET P P P P P P	Frequency
0 dB/div	Ref Offset	1 dB	Gain:Low	#Atten: 40	540		Mk	(r1 2.39	1 1 GHz 91 dBm	Auto Tun
	IXCI 20.00									
10.0										Center Fre 2.35000000 GH
										2.000000000000
0.00										Start Fre
10.0									-11.74 dBm	2.30000000 GI
0.0										Stop Fre
0.0										2.40000000 GI
										CF Ste
10.0									1	10.000000 Mi
50.0 Martin	North web and the state	will have we the	hadingnar	mu	all water and	any the	n	Hanner	a hourself	<u>Auto</u> Mi
io.o										Freq Offs
										01
70.0										
								Stop 2.4	0000 GHz	
	0000 GHz		#VRM	300 kHz			Sween 0			
	0000 GHz 100 kHz		#VBW	300 kHz			Sweep 9 STATUS	.600 ms ((1001 pts)	
Res BW		iwept SA	#VBW	300 kHz				.600 ms (
Res BW sg gilent Spect	T 100 kHz trum Analyzer - S RF 50	Ω AC		SEM	NSE:INT	Avg Type	STATUS	.600 ms ((1001 pts)	Frequency
Res BW sg gilent Spect RL	rum Analyzer - S	Ω AC 750000 GI		SE ^r	NSE:INT		STATUS	.600 ms ((1001 pts)	
Res BW gilent Spect RL enter F	rum Analyzer - S RF 50 Freq 2.491 Ref Offset 1	Ω AC 750000 GI F IF	Hz ₽N0: Fast ⊂) Trig: Free	NSE:INT	Avg Type	ALIGN AUTO S: Log-Pwr >200/200	.600 ms (08:21:10 P TRA TY D .484 27	(1001 pts) MNov 20, 2019 CE 1 2 3 4 5 6 PE M M P P P P P P 0 0 GHz	
Res BW gilent Spect RL enter F	trum Analyzer - S RF 50 Freq 2.491	Ω AC 750000 GI F IF	Hz ₽N0: Fast ⊂) Trig: Free	NSE:INT	Avg Type	ALIGN AUTO S: Log-Pwr >200/200	.600 ms (08:21:10 P TRA TY D .484 27	(1001 pts) M Nov 20, 2019 CE 1 2 3 4 5 6 PE M WWWW eT P P P P P	
Res BW gilent Spect RL enter F	rum Analyzer - S RF 50 Freq 2.491 Ref Offset 1	Ω AC 750000 GI F IF	Hz ₽N0: Fast ⊂) Trig: Free	NSE:INT	Avg Type	ALIGN AUTO S: Log-Pwr >200/200	.600 ms (08:21:10 P TRA TY D .484 27	(1001 pts) MNov 20, 2019 CE 1 2 3 4 5 6 PE M M P P P P P P 0 0 GHz	Auto Tur Center Fre
Res BW gilent Spect RL enter F	rum Analyzer - S RF 50 Freq 2.491 Ref Offset 1	Ω AC 750000 GI F IF	Hz ₽N0: Fast ⊂) Trig: Free	NSE:INT	Avg Type	ALIGN AUTO S: Log-Pwr >200/200	.600 ms (08:21:10 P TRA TY D .484 27	(1001 pts) MNov 20, 2019 CE 1 2 3 4 5 6 PE M M P P P P P P 0 0 GHz	Auto Tur Center Fre
Res BW gilent Spect RL center F 0 dB/div	rum Analyzer - S RF 50 Freq 2.491 Ref Offset 1	Ω AC 750000 GI F IF	Hz ₽N0: Fast ⊂) Trig: Free	NSE:INT	Avg Type	ALIGN AUTO S: Log-Pwr >200/200	.600 ms (08:21:10 P TRA TY D .484 27	(1001 pts) MNov 20, 2019 CE 1 2 3 4 5 6 PE M M P P P P P P 0 0 GHz	Auto Tur Center Fre 2.491750000 Gł
Res BW aa gilent Spect RL RL Conter F Conter F Co	rum Analyzer - S RF 50 Freq 2.491 Ref Offset 1	Ω AC 750000 GI F IF	Hz ₽N0: Fast ⊂) Trig: Free	NSE:INT	Avg Type	ALIGN AUTO S: Log-Pwr >200/200	.600 ms (08:21:10 P TRA TY D .484 27	(1001 pts) MNov 20, 2019 CE [] 2 3 4 5 6 PP P P P P 0 0 GHz 30 dBm	Auto Tur Center Fre 2.491750000 Gł Start Fre
Res BW aa gilent Spect RL RL Conter F Conter F Co	rum Analyzer - S RF 50 Freq 2.491 Ref Offset 1	Ω AC 750000 GI F IF	Hz ₽N0: Fast ⊂) Trig: Free	NSE:INT	Avg Type	ALIGN AUTO S: Log-Pwr >200/200	.600 ms (08:21:10 P TRA TY D .484 27	(1001 pts) MNov 20, 2019 CE 1 2 3 4 5 6 PE M M P P P P P P 0 0 GHz	Auto Tur Center Fre 2.491750000 GH Start Fre
Res BW glent Spect RL enter F 0 dB/div 0 dB/div 0 dB/div 0 dB/div	rum Analyzer - S RF 50 Freq 2.491 Ref Offset 1	Ω AC 750000 GI F IF	Hz ₽N0: Fast ⊂) Trig: Free	NSE:INT	Avg Type	ALIGN AUTO S: Log-Pwr >200/200	.600 ms (08:21:10 P TRA TY D .484 27	(1001 pts) MNov 20, 2019 CE [] 2 3 4 5 6 PP P P P P 0 0 GHz 30 dBm	Auto Tur Center Fre 2.491750000 Gł Start Fre 2.483500000 Gł
Res BW glent Spect RL enter F 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	rum Analyzer - S RF 50 Freq 2.491 Ref Offset 1	Ω AC 750000 GI F IF	Hz ₽N0: Fast ⊂) Trig: Free	NSE:INT	Avg Type	ALIGN AUTO S: Log-Pwr >200/200	.600 ms (08:21:10 P TRA TY D .484 27	(1001 pts) MNov 20, 2019 CE [] 2 3 4 5 6 PP P P P P 0 0 GHz 30 dBm	Auto Tur Center Fre 2.491750000 GF Start Fre 2.483500000 GF Stop Fre
Res BW a glent Spect RL RL C dB/div O G C dB	rum Analyzer - S RF 50 Freq 2.491 Ref Offset 1	Ω AC 750000 GI F IF	Hz ₽N0: Fast ⊂) Trig: Free	NSE:INT	Avg Type	ALIGN AUTO S: Log-Pwr >200/200	.600 ms (08:21:10 P TRA TY D .484 27	(1001 pts) MNov 20, 2019 CE [] 2 3 4 5 6 MMWMMM M P P P P P P 0 0 GHz 30 dBm	Auto Tur Center Fre 2.491750000 Gł Start Fre 2.483500000 Gł Stop Fre 2.500000000 Gł
Res BW a glient Spect RL codB/div	rum Analyzer - S RF 50 Freq 2.491 Ref Offset 1	Ω AC 750000 GI F IF	Hz ₽N0: Fast ⊂) Trig: Free	NSE:INT	Avg Type	ALIGN AUTO S: Log-Pwr >200/200	.600 ms (08:21:10 P TRA TY D .484 27	(1001 pts) MNov 20, 2019 CE [] 2 3 4 5 6 MMWMMM M P P P P P P 0 0 GHz 30 dBm	Auto Tur Center Fre 2.491750000 Gł Start Fre 2.483500000 Gł Stop Fre 2.500000000 Gł CF Ste 1.650000 Mł
Res BW sa glent Spect RL RL codB/div 99 10.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	rum Analyzer - S RF 50 Freq 2.491 Ref Offset 1	Ω AC 750000 GI F I dB 0 dBm	Hz NO: Fast Gain:Low	Trig: Free #Atten: 40	vse:int	Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr >200/200 Mkr1 2	08:21:10 P	(1001 pts)	Auto Tur Center Fre 2.491750000 Gł Start Fre 2.483500000 Gł Stop Fre 2.500000000 Gł CF Ste 1.650000 Mł
Res BW 33 gilent Spect RL RL CodB/div 99 10.0 90 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	rum Analyzer - S RF 50 Freq 2.491 Ref Offset 1	Ω AC 750000 GI F IF	HZ NO: Fast Gain:Low	Trig: Free #Atten: 40	vse:int	Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr >200/200 Mkr1 2	08:21:10 P	(1001 pts) MNov 20, 2019 CE [] 2 3 4 5 6 MMWMMM M P P P P P P 0 0 GHz 30 dBm	Auto Tur Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH CF Ste 1.650000 MH Auto Ma
Res BW 33 gilent Spect RL RL CodB/div 99 10.0 90 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	rum Analyzer - S RF 50 Freq 2.491 Ref Offset 1	Ω AC 750000 GI F I dB 0 dBm	Hz NO: Fast Gain:Low	Trig: Free #Atten: 40	vse:int	Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr >200/200 Mkr1 2	08:21:10 P	(1001 pts)	Auto Tur Center Fre 2.491750000 GH Start Fre 2.483500000 GH 2.500000000 GH 2.500000000 GH 1.650000 MH Auto MH Freq Offs
Res BW sg gilent Spect	rum Analyzer - S RF 50 Freq 2.491 Ref Offset 1	Ω AC 750000 GI F I dB 0 dBm	Hz NO: Fast Gain:Low	Trig: Free #Atten: 40	vse:int	Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr >200/200 Mkr1 2	08:21:10 P	(1001 pts)	Auto Tur Center Fre 2.491750000 GH Start Fre 2.483500000 GH Stop Fre 2.500000000 GH CF Ste 1.650000 MH
Res BW a gilent Spect RL RL C dB/div 9 0 dB/div 9 10.0 0.00 10.0	rum Analyzer - S RF 50 Freq 2.491 Ref Offset 1	Ω AC 750000 GI F I dB 0 dBm	Hz NO: Fast Gain:Low	Trig: Free #Atten: 40	vse:int	Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr >200/200 Mkr1 2	08:21:10 P	(1001 pts)	Auto Tur Center Fre 2.491750000 GH Start Fre 2.483500000 GH 2.500000000 GH 2.500000000 GH 1.650000 MH Auto MH Freq Offs
Res BW a gitent Spect RL C dB/div 9 0 dB/div 9 10.0 10	rum Analyzer - S RF 50 Freq 2.491 Ref Offset 1	Ω AC 750000 GI F I dB 0 dBm	Hz NO: Fast Gain:Low	Trig: Free #Atten: 40	SEINT	Avg Type Avg Hold:	ALIGNAUTO 2: LogPwr >200/200 Mkr1 2 Alignauto Ali	.600 ms (08:21:10 P TRA TRA TRA TRA TRA TRA TRA TRA TRA TRA	(1001 pts)	Auto Tur Center Fre 2.491750000 GH Start Fre 2.483500000 GH 2.500000000 GH 2.500000000 GH CF Ste 1.650000 MH Auto Ma

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	rum Analyzer - Swe									
X RL Center F	RF 50 Ω Freq 14.5000	00000 G			ISE:INT	Avg Type	ALIGNAUTO		Nov 20, 2019 E 1 2 3 4 5 6 PE M WWWWW T P P P P P P	Frequency
		P IF(NO: Fast 🖵 Gain:Low	Trig: Free #Atten: 40		Avg Hold:	10/10	DE		
10 dB/div Log	Ref Offset 1 d Ref 20.00 d						Μ	kr1 26.4 -39.1	58 GHz 31 dBm	Auto Tune
										Center Fred
10.0										14.50000000 GH;
0.00										
										Start Fred 2.50000000 GHz
10.0									-11.74 dBm	2.000000000000
20.0										Stop Fred
-30.0										26.50000000 GHz
00.0									1	
-40.0					المعرية	the assessment of the	. Incharter		Nalla and Allan	CF Step 2.40000000 GHz
-50.0 <mark>11.4944</mark>	and the second second	libura na dabini	tala di sa ka ka da		a the second	a particular dan july		and the second second		<u>Auto</u> Man
										Freq Offset
60.0										0 Hz
70.0										
Start 2.50 #Res BW) GHz 100 kHz		#VBW	300 kHz			Sween		6.50 GHz 8001 pts)	
ISG				000 1112			STATUS		eser proj	

4.8.1.1.4 802.11G_Lowest Channel





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glient Spectrum Analyzer - Swe RL AF SO SZ	N DC	SENSE INT	ALIGNAUTO	10:02:21 PM Nov 20, 201/	Frequency
enter Freq 79.500 k	PNO: Wide 😱	Trig: Free Run	Avg Type: Log-Pwr Avg[Hold:>50/50	TRACE 1 2014 5 TYPE MUNANY DET P P P P P	P
Ref Offset 1 d dB/div Ref 0.00 dB		#Atten: 26 dB		Mkr1 9,705 kH: -50.829 dBn	Auto Tur
og					Center Fre
0.0					79.500 kł
0.0				_33,8i dei	Start Fre 9.000 ki
uá 000					Stop Fre 150.000 kF
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	Man Martanas		Jupanya		CF Ste 14.100 kH Auto Ma
υή α.ο.		איזאיאואינאוואייאוואיאיאאא	Walkery of far Play of	WITHIN WILL MANAGE	Freq Offs 01
tart 9.00 kHz				Stop 150.00 kHz	2
Res BW 1.0 kHz	#VBW	3.0 kHz		134.8 ms (601 pts	
G		3.0 kHz		134.8 ms (601 pts DC Coupled	
i <mark>cilent Spectrum Analyzer - Swe</mark> RL RF 50 Q /	pt SA	3.0 kHz	ALIGN AUTO	DC Coupled	
i <mark>cilent Spectrum Analyzer - Swe</mark> RL RF 50 Q /	pt SA ▶□C OO MHz PN0: Fast ⊊	SENSE:INT	STATUS	DC Coupled	
ic ilent Spectrum Analyzer - Swei RL RF 50 2 / enter Freq 15.07500 Ref Offset 1 di 0 dB/div Ref 20.00 di	pt SA DC OO MHZ PNO: Fast IFGain:Low B	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	L DC Coupled	Frequency Auto Tur
kg ilent Spectrum Analyzer - Swey RL RF 50.2 enter Freq 15.07501 Ref Offset 1 di	pt SA DC OO MHZ PNO: Fast IFGain:Low B	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	DC Coupled	Frequency Auto Tur
RE So 24 RL RF So 24 enter Freq 15.0750 Ref Offset 1 dl o dB/div Ref 20.00 d	pt SA DC OO MHZ PNO: Fast IFGain:Low B	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	DC Coupled	Auto Tur Center Fre
ic glent Spectrum Analyzer - Swej RL RF 50 g/ enter Freq 15.07500 Ref Offiset 1 dl 0 dB/div Ref 20.00 dl	pt SA DC OO MHZ PNO: Fast IFGain:Low B	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	DC Coupled	Frequency Auto Tur
RL RF 50 2 RL RF 50 2 enter Freq 15.0750 Ref Offset 1 dl 0 dB/div Ref 20.00 d 9 0.00	pt SA DC OO MHZ PNO: Fast IFGain:Low B	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	DC Coupled	Auto Tur Center Fre 15.075000 M
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RL RF 50 9 / enter Freq 15.0750 Ref Offset 1 dl 0 dB/div Ref 20.00 d	pt SA DC OO MHZ PNO: Fast IFGain:Low B	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	DC Coupled	Auto Tur Center Fre 15.075000 Mt Start Fre 150.000 kt
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RL RF 50 x / enter Freq 15.07500 D dB/div Ref 20.00 d	pt SA DC OO MHZ PNO: Fast IFGain:Low B	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	DC Coupled	Auto Tur Center Fre 15.075000 MH Start Fre 150.000 kH Stop Fre 30.000000 MH
R L RF 50 x d enter Freq 15.07500 Rel Ref Offset 1 dl o dB/div Ref 20.00 d	pt SA OC MHZ PN0: Fast IFGain:Low B Bm	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hoid>50/50	DC Coupled	Auto Tur Center Fre 15.075000 MH Start Fre 150.000 kH Stop Fre 30.000000 MH CF Ste 2.985000 MH Auto Ma
RI RF SOR RL RF SOR enter Freq 15.07500 Ref Offset 1 di Ref 20.00 di 0 di	pt SA OC MHZ PN0: Fast IFGain:Low B Bm	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	DC Coupled	Auto Tur Center Fre 15.075000 MH Start Fre 150.000 kH Stop Fre 30.000000 MH
Image: sector of the sector	pt SA OC MHZ PN0: Fast IFGain:Low B Bm	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hoid>50/50	DC Coupled	Auto Tur Center Fre 15.075000 MH Start Fre 150.000 kH Stop Fre 30.000000 MH CF Ste 2.985000 MH Auto Ma
R L RF 50 x d enter Freq 15.07500 Rel Ref Offset 1 dl o dB/div Ref 20.00 d	pt SA DO MHZ PNO: Fast IFGain:Low B B m 	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr AvgHold>50/50	DC Coupled	Auto Tur Auto Tur Center Fre 15.075000 M Start Fre 150.000 k Stop Fre 30.000000 M <u>CF Ste</u> 2.985000 M <u>Auto</u> Ma Freq Offs 0 F

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DE 50 (vept SA		051				10.00.05.01		
RF 50 ۵ req 1.1650	00000 G	PNO: Fast 🖵	Trig: Free	Run		ALIGN AUTO e: Log-Pwr i>50/50	TRAC	A Nov 20, 2019 E 1 2 3 4 5 6 E M A A A A A A A A A A A A A A A A A A	Frequency
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									Center Fre 1.165000000 G⊦
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ЛНz							Stop 2	.300 GHz	
100 kHz		#VBW	300 kHz			Sweep 2	17.1 ms (8001 pts)	
						STATUS	5		
rum Analyzer - Sw	vept SA								
RF 50 Ω			SEN	ISE:INT		ALIGN AUTO	10:03:17 PM	4 Nov 20, 2019	
RF 50 Ω req 2.3500	Ω AC 00000 G	PNO: Fast 😱	Trig: Free	Run	Avg Typ	ALIGN AUTO e: Log-Pwr :>200/200	10:03:17 PM TRAC TYP DE	4 Nov 20, 2019 E 1 2 3 4 5 6 M WWWWW T P P P P P P	Frequency
	2 AC 000000 G I I I B		.	Run	Avg Typ	e: Log-Pwr :>200/200	TRAC TYF DE	E 123456 E M UMMMM T P P P P P P	Frequency Auto Tun
Ref Offset 1	2 AC 000000 G I I I B	PNO: Fast 😱	Trig: Free	Run	Avg Typ	e: Log-Pwr :>200/200	TRAC TYF DE	E 123456 MWWWWW PPPPP 98GHz	
Ref Offset 1	2 AC 000000 G I I I B	PNO: Fast 😱	Trig: Free	Run	Avg Typ	e: Log-Pwr :>200/200	TRAC TYF DE	9 8 GHz 59 dBm	Auto Tun Center Fre
Ref Offset 1	2 AC 000000 G I I I B	PNO: Fast 😱	Trig: Free	Run	Avg Typ	e: Log-Pwr :>200/200	TRAC TYF DE	E 123456 MWWWWW PPPPP 98GHz	Auto Tun Center Fre 2.35000000 GH Start Fre
Ref Offset 1	2 AC 000000 G I I I B	PNO: Fast 😱	Trig: Free	Run	Avg Typ	e: Log-Pwr :>200/200	TRAC TYF DE	9 8 GHz 59 dBm	Auto Tun Center Fre 2.35000000 GH Start Fre 2.30000000 GH Stop Fre 2.40000000 GH
Ref Offset 1	2 AC 00000 G 1 dB dB dB dB dB dB dB dB dB dB	PNO: Fast Gain:Low	Trig: Free #Atten: 40	Run dB	Avg Typ- Avg Hold	e: Log-Pwr :>200/200	TRAC TYF DE	-13.91 dBm	Auto Tun Center Fre 2.350000000 GH 2.300000000 GH 2.400000000 GH 2.400000000 GH CF Ste 10.000000 MH Auto Ma
Ref Offset 1 Ref 20.00	2 AC 00000 G 1 dB dB dB dB dB dB dB dB dB dB	PNO: Fast Gain:Low	Trig: Free #Atten: 40	Run dB	Avg Typ- Avg Hold	e: Log.Pwr >200/200	rrac rrac pe -28.7	-13.91 dBm	Auto Tun Center Fre 2.350000000 GH 2.300000000 GH 2.400000000 GH CF Ste 10.000000 MH
Ref Offset 1 Ref 20.00	2 AC 00000 G 1 dB dB dB dB dB dB dB dB dB dB	PNO: Fast Gain:Low	Trig: Free #Atten: 40	Run dB	Avg Typ- Avg Hold	e: Log.Pwr >200/200	rrac rrac pe -28.7	-13.91 dBm	Auto Tun Center Fre 2.350000000 GH Start Fre 2.300000000 GH 2.400000000 GH CF Ste 10.000000 MH Auto Ma
	Ref Offset 1 Ref 20.00	Ref Offset 1 dB Ref 20.00 dBm	Ref Offset 1 dB Ref 20.00 dBm	PNO: Fast IFGain:Low Trig: Free #Atten: 40 Ref 0ffset 1 dB Ref 20.00 dBm	PNO: Fast IFGain:Low Ing: Free Run #Atten: 40 dB Ref Offset 1 dB Ref 20.00 dBm Image: Free Run #Atten: 40 dB Image: Im	PNO: Fast IFGain:Low Trig: Free Run #Atten: 40 dB Ref Offset 1 dB Ref 20.00 dBm	PNO: Fast Ing: Free kun Avg(Hold>0000 Ref Offset 1 dB Mkr Ref 20.00 dBm Image: Status Image: Status Image: Status	Ref Offset 1 dB Mkr1 2.198 Ref 20.00 dBm -46.9	PN0: Fast IFGainLow Iffg: Free Run #Atten: 40 dB Avginoid>3000 Iffg: Free PP PP Ref Offset 1 dB Ref 20.00 dBm Mkr1 2.198 70 GHz -46.916 dBm Image: State 1 db I

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	r <mark>um Analyzer - Sw</mark> RF 50 Ω			CEN	ISE:INT		ALIGNAUTO	10:02:26.00	M Nov 20, 2019	
	req 2.4917	50000 GI	lz NO: Fast ⊂⊾ Gain:Low		Run		e: Log-Pwr	TRAC TY D	CE 23456 PE MWWWWW ET P P P P P	Frequency
0 dB/div	Ref Offset 1 Ref 20.00	dB					Mkr1 2	.485 31 -47.8	5 0 GHz 38 dBm	Auto Tu
^{og}										Center Fr
10.0										2.491750000 G
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									-13.91 dBm	2.48500000 8
80.0										Stop Fr 2.500000000 G
40.0	1									CF St 1.650000 M
50.0 <mark>മപ്പന</mark> ്	un and and a straight and	houthernaut	ᡀᢤᡰ᠋ᢆ᠋᠆᠕ᡁᡔ᠋ᡗᡟ᠋ᡟᢦ	ᡁᠬᡃ ^ᡰ ᠺ᠁ᡁᠧ᠋ᡥᡡᢔ	^a bilawy ^{p.} a	ᡃᡙᠾ᠁ᡃ᠋ᡀ᠁ᠰ	᠆ᠰᡁ᠕᠆ᡁ	UL _{AU} I baylugo	ᠰ᠋ᡁᡘ᠆᠕ᡃᡏᠬ᠋᠕ᢧ	<u>Auto</u> N
50.0										Freq Offs 0
70.0										
tart 3.4							5	itop 2.50	0000 GHz	
	3500 GHz		40 (514					4 000		
Res BW	100 kHz		#VBW	/ 300 kHz			Sweep		(601 pts)	
Res BW	100 kHz	ept SA	#VBW	/ 300 kHz						
Res BW ^{SG} gilent Spect	100 kHz rum Analyzer - Sw RF 50 Ω	AC			ISE:INT		Sweep status ALIGN AUTO	10:04:00 P	(601 pts)	Frequency
Res BW ^{SG} gilent Spect	100 kHz rum Analyzer - Sw	AC 000000 G P		SEN	Run		Sweep status ALIGN AUTO e: Log-Pwr	10:04:00 PI TRAC	(601 pts)	
Res BW gilent Spect RL enter F	100 kHz rum Analyzer - Sw RF 50 Ω	AC 000000 @ P IF	GHz NO: Fast G) Trig: Free	Run	Avg Type	Sweep status ALIGN AUTO a: Log-Pwr : 10/10	10:04:00 Pi TRAC TY DI Kr1 26.4	(601 pts)	Frequency Auto Tu
Res BW gilent Spect	100 kHz rum Analyzer - Sw RF 50 Ω req 14.5000	AC 000000 @ P IF	GHz NO: Fast G) Trig: Free	Run	Avg Type	Sweep status ALIGN AUTO a: Log-Pwr : 10/10	10:04:00 Pi TRAC TY DI Kr1 26.4	(601 pts)	
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Res BW gilent Spect RL enter F	100 kHz rum Analyzer - Sw RF 50 Ω req 14.5000	AC 000000 @ P IF	GHz NO: Fast G) Trig: Free	Run	Avg Type	Sweep status ALIGN AUTO a: Log-Pwr : 10/10	10:04:00 Pi TRAC TY DI Kr1 26.4	(601 pts)	Auto Tu Center Fr 14.50000000 G Start Fr
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Res BW a glient Spect RL RL O dB/div	100 kHz rum Analyzer - Sw RF 50 Ω req 14.5000	AC 000000 @ P IF	GHz NO: Fast G) Trig: Free	Run	Avg Type	Sweep status ALIGN AUTO a: Log-Pwr : 10/10	10:04:00 Pi TRAC TY DI Kr1 26.4	(601 pts) MNov 20, 2019 E 12 3 4 5 6 MMNov 20, 2019 F P P P P P P 73 GHz 66 dBm	Auto Tu Center Fr 14.50000000 G Start Fr 2.50000000 G
Res BW aa glient Spect RL C dB/div O	100 kHz rum Analyzer - Sw RF 50 Ω req 14.5000 Ref 0ffset 1 0 Ref 20.00 0	ac 000000 G P IF	HZ NO: Fast Gain:Low	SEN Trig: Free #Atten: 40		Avg Type Avg Hold:	Sweep status alignauto :: Log-Pwr : 10/10 M	10:04:00 PI TRAI TY b kr1 26.4 -38.5	(601 pts)	Auto Tu Center Fr 14.50000000 G Start Fr 2.50000000 G Stop Fr 26.50000000 G
Res BW aa glient Spect RL C dB/div	100 kHz rum Analyzer - Sw RF 50 Ω req 14.5000	ac 000000 G P IF	HZ NO: Fast Gain:Low) Trig: Free		Avg Type Avg Hold:	Sweep status alignauto :: Log-Pwr : 10/10 M	10:04:00 PI TRAI TY b kr1 26.4 -38.5	(601 pts)	Auto Tu Center Fr 14.50000000 G Start Fr 2.50000000 G Stop Fr 26.50000000 G CF St 2.40000000 G Auto M
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Res BW gillent Spect RL enter F enter F 0 dB/div 0 0.0 0.0 0.0	100 kHz rum Analyzer - Sw RF 50 Q req 14.5000 Ref Offset 1 Ref 20.00 (ac 000000 G P IF	Hz NO: Fast Gain:Low	SEN Trig: Free #Atten: 40		Avg Type Avg Hold:	Sweep	10:04:00 PI TRAC TYI TRAC TYI TRAC TYI TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC	(601 pts)	Auto Tu Center Fr 14.50000000 G Start Fr 2.50000000 G Stop Fr 26.50000000 G <u>CF St</u> 2.40000000 G <u>Auto</u> M

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