

Report No:

Applicant:	DMR Technologies
Product:	Agricultural unmarmed drone
Model No:	Field Ranger X50, Field Ranger
Trademark:	N/A
Test Standards:	FCC Part 15 Subpart E, Paragraph 15.407
Test result:	It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15 Subpart C, Paragraph 15.407 regulations for the evaluation of
	electromagnetic compatibility
Approved By Term Tang	

TW2501162-04E

Manager

Dated: February 10, 2025

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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General Details 1.0

1.1	Test Lab Detai	ls
	Name:	SHENZHEN TIMEWAY TESTING LABORATORIES.
	Address:	Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le
		Village, Nanshan District, Shenzhen, China
	Telephone:	(755) 83448688
	Fax:	(755) 83442996
	Site Listed wit	n Federal Communications commission (FCC)
	Registration N	umber:744189
	For 3m Anecho	bic Chamber
	Site Listed wit	n Industry Canada of Ottawa, Canada
	Registration N	umber: IC: 5205A
	For 3m Anecho	bic Chamber
1.2	Applicant Deta	ils
	Applicant:	DMR Technologies
	Address:	2050 15th St., Detroit, MI 48216
1.3	Description of	
	Product:	Agricultural unmarmed drone
	Manufacturer:	DMR Technologies
	Address:	2050 15th St., Detroit, MI 48216
	Trademark:	N/A
	Additional Tra	
	Model Number	C
		del Number: Field Ranger
	Hardware Vers	
	Software Versi	
	Battery:	DC76.5V, 30000mAh Li-ion battery
	Type of Modul	
	Frequency List	
	Antenna:	Integral antennas used. The gain of the antennas is 1.87dBi maximum for each. (Get from
	Energy C 1	the antenna specification provided the applicant)
	Frequency Sel	ection By software

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- 1.4 Submitted Sample:2 Samples
- 1.5 Test Duration 2025-01-21 to 2025-02-20
- 1.6 Test Uncertainty Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.
- 1.7 Test Engineer

The sample tested by

Andy - King

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 **Technical Details**

3.1 Summary of test results

The EUT has been tested ad	cording to the following speci	fications:	
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.407	Conducted Emission Test	N/A	N/A
FCC Part 15 Subpart E Paragraph 15.407 (b1/4/5/6/7), Part 15.205 and Part 15.209	Undesirable Emission and Restrict band	Pass	Complies
FCC Part 15, Paragraph 15.407 (a1/2/3)	Peak Transmit Power	Pass	Complies
FCC Part 15, Paragraph 15.407 (a)(6)	Peak Power Excursion	Pass	Complies
FCC Part 15, Paragraph 15.407 (a/1/2/3)	Peak Power Spectral Density	Pass	Complies
FCC Part 15, Paragraph 15.407(g)	Frequency Stability	Pass	Complies

3.2 **Test Standards**

FCC Part 15 Subpart & Subpart C, Paragraph 15.407, ANSI C63.10 :2013 and ANSI C63.4 :2014 789033 D02 General UNII Test Procedures New Rules v01r04

4.0 **EUT Modification**

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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5.0 Duty Cycle

10M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	
		5750		29.92	5.24	0.35	
		5780 Ant1	Ant1	29.9	5.24	0.35	
		5820		29.92	5.24	0.35	
NVNT	а	a	5750		29.92	5.24	0.35
			5780	Ant2	29.9	5.24	0.35
		5820		29.9	5.24	0.35	

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		Test C	Graphs		
	C	Duty Cycle NVNT	a 5750MHz Ant1		
gilent Spectrum Analyzer - S RL RF 50		SENSE:INT	ALIGN AUTO	01:29:02 PMFeb 18, 2025	
Center Freq 5.750		Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TYPE WWWWWWWW	Frequency
	IFGain:Low	#Atten: 30 dB		DET PNNNN Mkr1 2.374 ms	Auto Tune
Ref Offset: 0 dB/div Ref 20.00				-16.21 dBm	
		rate all a deservables		anti-antibile Participation (s)	Center Free
10.0		2	3		5.750000000 GH
20.0			¥		Start Free
40.0					5.750000000 GH
50.0			wenter with the second second second		04 E
0.0	n fan fan de stere d Transmission de stere		nlaatsi pendik tardi na adabataji.	lind to a share in such a links	Stop Fre 5.750000000 GH
70.0				On on A H-	
Center 5.750000000 Les BW 1.0 MHz		3W 3.0 MHz	Sweep 20.	Span 0 Hz 00 ms (10001 pts).	CF Step 1.000000 MH
IKR MODE TRC SCL	× 2.374 ms	۲ -16.21 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Mai
2 N 1 t 3 N 1 t 4	9.036 ms 11.88 ms	-17.58 dBm -16.24 dBm			Freq Offse
4 5 6					0 H
7					
9					
10					
10 11				×	
10 11 5G		Duty Cycle NVNT	status		
10 11 sc gilent Spectrum Analyzer - S RL RF 50	Swept SA	SENSE:INT	a 5780MHz Ant1 Alignauto Avg Type: Log-Pwr	01:31:37 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWW	Frequency
10 11 sc gilent Spectrum Analyzer - S RL RF 50 Center Freq 5.780(Ref Offset:	Swept SA DO AC OOOOOO GHZ PNO: Wide IFGain:Low 3.01 dB	SENSE:INT	a 5780MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr	01:31:37 PMFeb 19, 2025 TRACE 12 3 4 5 6 TYPE WANNING DET P NNNN Mkr1 2.704 ms	Frequency Auto Tune
10 11 11 11 36 11 36 11 37 R RL RF Socenter Freq 5.7800 Ref Offset: 0 dB/div Ref 20.00 9 multiple and all sould	Swept SA DO AC OOOOOO GHZ PNO: Wide IFGain:Low 3.01 dB	SENSE:INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1	01:31:37 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWW DET P N N N N	Auto Tune
10 11 11 11 13 11 14 11 15 11 16 11 17 11 18 11 18 11 18 11 19 11 10 11 10 11 10 11 10 11 10 11 10 11	Swept SA DO AC OOOOOO GHZ PNO: Wide IFGain:Low 3.01 dB	SENSE INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1	01:31:37 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWW DET P NNNN Mkr1 2.704 ms -15.06 dBm	Auto Tuno Center Free
10 11 13 13 14 15 15 16 17 17 17 17 17 17 17 17 17 17	Swept SA DO AC OOOOOO GHZ PNO: Wide IFGain:Low 3.01 dB	SENSE:INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1	01:31:37 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWW DET P NNNN Mkr1 2.704 ms -15.06 dBm	Auto Tune Center Free 5.78000000 GH
10 11 11 12 13 14 15 15 15 15 15 15 15 15 15 15	Swept SA D Ω AC PN0: Wide - IFGain:Low 3.01 dB 0 dBm	SENSE-INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1	01:31:37 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWW DET P NNNN Mkr1 2.704 ms -15.06 dBm	Auto Tune Center Free 5.78000000 GH Start Free
10 11 11 13 13 16 17 17 17 17 17 17 17 17 17 17 17 17 17	Swept SA D R AC PNO: Wide - IFGain:Low 3.01 dB 0 dBm	SENSE-INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr	01:31:37 PMFeb 19, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW DET P N N N N Mkr1 2.704 ms -15.06 dBm	Auto Tune Center Free 5.78000000 GH Start Free
10 11 13 13 14 15 15 16 17 17 17 17 17 17 17 17 17 17	Swept SA D Ω AC PN0: Wide - IFGain:Low 3.01 dB 0 dBm	SENSE-INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1	01:31:37 PMFeb 19, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW DET P N N N N Mkr1 2.704 ms -15.06 dBm	Auto Tune Center Free 5.78000000 GH Start Free 5.78000000 GH Stop Free
10 11 13 13 14 15 15 16 17 17 17 17 17 17 17 17 17 17	Swept SA D R AC PNO: Wide - IFGain:Low 3.01 dB 0 dBm	SENSE-INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr	01:31:37 PMFeb 19, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW DET P N N N N Mkr1 2.704 ms -15.06 dBm	Auto Tune Center Free 5.78000000 GH Start Free 5.78000000 GH Stop Free
10 11 11 11 36 36 RL RF 50 Enter Freq 5.7800 36 0 dB/div Ref Offset 3 0 dB/div Ref 20.00 0 0 11 0 00 11 0 00 11 0 00 11 0 00 11 0 00 14 10 0 14 0 0 14 10 0 14 10 0 14 10 0 14 10 0 14 10 0 14 10 0 14 10 0 14 10 0 14 10 0 14 10 0 14 10 0 14 10 0 14 10 0 14 10 0 14 10 0 14 10 0 14 10 0 14 10 0 1	Swept SA D (2 AC PNO: Wide - IFGain:Low 3.01 dB 0 dBm data data biochtory - biochtory data biochtory - biochtory - b	SENSE:INT Trig: Free Run #Atten: 40 dB	A 5780MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr	01:31:37 PM Feb 18, 2025 TRACE 12:34 5.6 TYPE PNNNNN Mkr1 2:704 ms -15.06 dBm 	Auto Tune Center Free 5.78000000 GH Start Free 5.78000000 GH Stop Free 5.780000000 GH
10 10 11 11 12 11 13 11 14 11 156 11 100 11	Swept SA OQ AC PN0: Wide - IFGain:Low 3.01 dB 0 dBm - 	SENSE:INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1 Autonauto Avg Type: Log-Pwr a 3 a a a a a a a a a a a a a a a a a	01:31:37 PM Feb 19, 2025 TRACE 12:34 5.6 TYPE PNNNNN Mkr1 2:704 ms -15:06 dBm -15:06 dBm -15:06 dBm -15:06 dBm -15:06 dBm -15:06 dBm -15:06 dBm -15:06 dBm -15:06 dBm	Auto Tune Center Free 5.78000000 GH Start Free 5.78000000 GH Stop Free 5.78000000 GH CF Step 1.00000 MH
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		Du	ty Cycle NVNT	a 5820MHz Ant1		
Agilent Spectrum Analyze	er - Swept SA 50 Ω AC		SENSE:INT	ALIGN AUTO	01:34:13 PM Feb 18, 2025	
Center Freq 5.8	20000000 GH	Z O: Wide ↔►	Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
	IFG	ain:Low	#Atten: 40 dB		DET P N N N N	Auto Tun
	set 3.03 dB).00 dBm				Mkr1 1.002 ms -23.92 dBm	
		<u></u>	m francia Pallitica del		March Barth Linguist	0
0.00		<u></u>	New And And Albert Co		here all the set of the	Center Fre 5.82000000 GH
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	and the second of the second	hotu Atoolaiy	1. March	daya milikin se dute payetek kulonin	, publica de la companya de la compa	
-60.0						Stop Fre 5.82000000 GH
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Res BW 1.0 MHz		#VBW	3.0 MHz		0.00 ms (10001 pts)	1.000000 MH <u>Auto</u> Ma
MKR MODE TRC SCL		02 ms	-23.92 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	
2 N 1 t 3 N 1 t	7.66	52 ms 51 ms	-15.73 dBm -13.95 dBm			Freq Offse
4 5						0 H
6 7 8 9						
9 10						
11						
					>	
NSG		Dut	ty Cycle NVNT	statu a 5750MHz Ant2		
Agilent Spectrum Analyze	50 Ω AC 50000000 GH	Z	SENSE:INT		01:19:18 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE	Frequency
Agilent Spectrum Analyze	50 Ω AC 50000000 GH PN IFG		SENSE:INT	a 5750MHz Ant2	01:19:18 PMFeb 18, 2025 TRACE[1] 2 3 4 5 6 TYPE[WMMMMM DET P NNNN Mkr1 2.722 ms	
Agilent Spectrum Analyze R RL RF Center Freq 5.7: Ref Offi 10 dB/div Ref 20	50 Ω AC 50000000 GH PN	Z O: Wide ↔	SENSE:INT Trig: Free Run #Atten: 30 dB	a 5750MHz Ant2	01:19:18 PMFeb 18, 2025 TRACE 12 2 3 4 5 6 TYPE WWWWWW DET P. N.N.N.N.	Frequency Auto Tun
Agilent Spectrum Analyze	50 Ω AC 50000000 GH PN IFG set 3.13 dB	Z O: Wide ↔	SENSE:INT	a 5750MHz Ant2	01:19:18 PMFeb 18, 2025 TRACE 11 2 3 4 5 6 TYPE WANNAN DET P NNN N Mkr1 2.722 ms -18.21 dBm	Auto Tun Center Fre
Agilent Spectrum Analyze R RL RF Center Freq 5.7 Ref Offi Ref Offi Ref Offi Ref Office 10.0 10	50 Ω AC 50000000 GH PN IFG set 3.13 dB	Z O: Wide ↔	SENSE:INT Trig: Free Run #Atten: 30 dB	a 5750MHz Ant2	01:19:18 PMFeb 18, 2025 TRACE[1] 2 3 4 5 6 TYPE[WMMMMM DET P NNNN Mkr1 2.722 ms	Auto Tun Center Fre
Agilent Spectrum Analyze	50 Ω AC 50000000 GH PN IFG set 3.13 dB	Z O: Wide ↔	SENSE:INT	a 5750MHz Ant2	01:19:18 PMFeb 18, 2025 TRACE 11 2 3 4 5 6 TYPE WANNAN DET P NNN N Mkr1 2.722 ms -18.21 dBm	Auto Tun Center Fre 5.75000000 GH
Agilent Spectrum Analyze R RL RF Center Freq 5.7 Ref Off 10 dB/div Ref 20 10.0	50 Ω AC 50000000 GH PN IFG set 3.13 dB	Z O: Wide ↔	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	01:19:18 PMFeb 18, 2025 TRACE 11 2 3 4 5 6 TYPE WANNAN DET P NNN N Mkr1 2.722 ms -18.21 dBm	Auto Tun Center Fre 5.75000000 GH Start Fre
Ref Offi 10 dB/div Ref Offi 10 dB/div Ref Officities 10.0	50 Ω AC 50000000 GH PN IFG set 3.13 dB 0.00 dBm	Z O: Wide ↔ ain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr	01:19:18 PMFeb 18,2025 TRACE 12.3.4.5.6 TYPE WWWWWWWW DETP NINN N Mkr1 2.722 ms -18.21 dBm	Auto Tun Center Fre 5.75000000 GH Start Fre
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Agilent Spectrum Analyze R RL RF Center Freq 5.7 10 dB/div Ref Office 10.00 automatic au	50 Ω AC 50000000 GH PN IFG set 3.13 dB 0.00 dBm	Z O: Wide → ain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr	01:19:18 PMFeb 18,2025 TRACE 11 2 3 4 5 6 Type Immonute per PNNNN Mkr1 2.722 ms -18.21 dBm	Auto Tun Center Fre 5.75000000 GH Start Fre 5.75000000 GH Stop Fre
Ref Office Ref Office 10 B Ref Office 200 B B -000 B	50 Ω AC 50000000 GH PN IFG set 3.13 dB 0.00 dBm	Z O: Wide → ain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr	01:19:18 PMFeb 18, 2025 TRACE [1] 2 3 4 5 6 TYPE [MANNANA DET P N N N N Mkr1 2.722 ms -18.21 dBm 014 ph 014 ph	Auto Tun Center Fre 5.75000000 GH 5.75000000 GH 5.750000000 GH 5.750000000 GH
Ref Off: Center Freq 5.7: Center Freq 5.7: 10 dB/div 10.00 40.00 -50.0 -60.0 -70.0 Center 5.7500000 Res BW 1.0 MHz	50 Ω AC 50000000 GH PN IFG set 3.13 dB 0.00 dBm	Z O:Wide ↔ ain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIONAUTO Avg Type: Log-Pwr	01:19:18 PMFeb 18,2025 TRACE 12 23 4 5 6 TYPE WWWWWWW DET P NNNN Mkr1 2.722 ms -18.21 dBm	Auto Tun Center Fre 5.75000000 GF Start Fre 5.75000000 GF Stop Fre 5.75000000 GF CF Ste 1.00000 MF
Ref Off: 10 dB/div Ref Off: 10.0	50 Ω AC 50000000 GH PN PN PN PN PN PN PN PN PN PN	Z O:Wide ↔ ain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIONAUTO Avg Type: Log-Pwr	DI:19:18 PMFeb 18, 2025 TRACE [12 3 4 5 6 TYPE [12 4 5	Auto Tun Center Fre 5.75000000 GH Start Fre 5.75000000 GH Stop Fre 5.75000000 GH CF Ste 1.00000 MH
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Agilent Spectrum Analyze	50 Ω AC 50000000 GH PN PN FG set 3.13 dB D.00 dBm 1 Image: A collete state st	Z O:Wide ↔ ain:Low #VBW	SENSE:INT Trig: Free Run #Atten: 30 dB	ALION AUTO Avg Type: Log-Pwr	DI:19:18 PMFeb 18, 2025 TRACE [1] 2 3 4 5 6 TYPE [1] 2 3 4 5 6 TYPE [1] 2 4 5 6	Auto Tun Center Fre 5.75000000 GH 5.75000000 GH 5.75000000 GH 5.75000000 GH CF Ste 1.00000 MH Auto Ma
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Agilent Spectrum Analyze R L RF Center Freq 5.75 10 dB/div Ref Off: 10 dB/div Ref Off: 10 dB/div Ref Off: 10 dB/div Ref Off: 10.00 Ref Off: .000 Ref Off: .001 Ref Off: .002 Ref Off: .003 .004 .004 .004 .005 .004 .004 .004 .005 .004 .004 .004 .005 .004 .004 .004 .005 .004 .004 .004 .005 .004 .004 .004	50 Ω AC 50000000 GH PN PN FG set 3.13 dB D.00 dBm 1 Image: A collete state st	Z O:Wide ↔ ain:Low #VBW	SENSE:INT Trig: Free Run #Atten: 30 dB	ALION AUTO Avg Type: Log-Pwr	DI:19:18 PMFeb 18, 2025 TRACE [1] 2 3 4 5 6 TYPE [1] 2 3 4 5 6 TYPE [1] 2 4 5 6	Auto Tun Center Fre 5.75000000 GF 5.75000000 GF 5.75000000 GF 5.75000000 GF CF Ste 1.00000 MF Auto Ma

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	01:23:06 PMFeb 18, 2025	ALIGN AUTO	SENSE:INT			pectrum Analyz RF
	TRACE 1 2 3 4 5 6	Avg Type: Log-Pwr	Free Run	Z O: Wide 井	80000000 G	
Auto Tupe	DET P N N N N N		en: 40 dB	ain:Low	I	
	Mkr1 1.886 ms -22.32 dBm				set 3.07 dB) .00 dBm	
	and the second state of th					dadallara
Center Fred 5.780000000 GHz	per al Desert y De		hata Minadap			NY ALWAN
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Stop Freq						
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	00 ms (10001 pts)	Sweep 20.	1Hz	#VBW 3		W 1.0 MHz
Auto Man	FUNCTION VALUE	TION FUNCTION WIDTH	FL 2 dBm	36 ms	× 1	de tro sol 1 t
Freq Offset			1 dBm 2 dBm	48 ms 39 ms	8.	1 t 1 t
0 Hz						
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		STATUS	cle NVNT	Duty	re Swood SA	
	01:24:21 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WHATMAN DET P N N N N	5820MHz Ant2 ALIGNAUTO Avg Type: Log-Pwr	Cle NVNT SENSE:INT Free Run m: 40 dB		50Ω AC 200000000 G F	pectrum Analyz RF r Freq 5.8
	01:24:21 PMFeb 18, 2025 TRACE 12 23 4 5 6 TYPE UMMMMMMM	5820MHz Ant2 ALIGNAUTO Avg Type: Log-Pwr	SENSE:INT	Z O: Wide ↔→→	50 Ω AC 200000000 G F IF IF Set 3.03 dB	r Freq 5.8 Ref Of
Auto Tune	01:24:21 PMFeb 18, 2025 TRACE 23 4 5 6 TYPE WWWWWW DEIP NNNNN Mkr1 1.552 ms -21.37 dBm	5820MHz Ant2 ALIGNAUTO Avg Type: Log-Pwr	SENSE:INT Free Run n: 40 dB	Z O: Wide ↔→→	50 Ω AC 20000000 G F IF	Ref Of div Ref 2
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Auto Tune Center Freq 5.82000000 GH2 Start Freq	01:24:21 PMFeb 18, 2025 TRACE 23 4 5 6 TYPE WWWWWW DEIP NNNNN Mkr1 1.552 ms -21.37 dBm	5820MHz Ant2 ALIGNAUTO Avg Type: Log-Pwr	SENSE:INT Free Run n: 40 dB	Z O: Wide ↔→→	50 Ω AC 200000000 G F If set 3.03 dB	Ref Of div Ref 2
Auto Tune Center Freq 5.82000000 GHz	01:24:21 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW OET P N N N N Mkr1 1.552 ms -21.37 dBm	5820MHz Ant2	SENSE:INT Free Run in: 40 dB	Z O: Wide →→ ain:Low	50 Ω AC 20000000 G F F II set 3.03 dB 0.00 dBm	r Freq 5.8
Auto Tune Center Freq 5.82000000 GHz Start Freq 5.82000000 GHz	01:24:21 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW OET P N N N N Mkr1 1.552 ms -21.37 dBm	5820MHz Ant2	SENSE:INT Free Run in: 40 dB	Z O: Wide →→ ain:Low	50 Ω AC 20000000 G F If set 3.03 dB 0.00 dBm	r Freq 5.8
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20M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	
		5750		29.92	5.24	0.35	
	а	5780	Ant1	29.92	5.24	0.35	
		5820		29.9	5.24	0.35	
NVNT		a	5750		29.92	5.24	0.35
		5780	Ant2	29.9	5.24	0.35	
		5820		29.92	5.24	0.35	

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		Test G	Graphs		
	Du	uty Cycle NVNT	a 5750MHz Ant1		
Agilent Spectrum Analyzer					
RL RF Center Freq 5.75		SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	02:14:07 PMFeb 18, 2025 TRACE 1 2 3 4 5 6 TYPE W	Frequency
	PNO: Wide ↔ IFGain:Low	, Trig: Free Run #Atten: 30 dB		DET P N N N N	A
	et 3.01 dB			Mkr1 1.124 ms -16.47 dBm	Auto Tune
10 dB/div Ref 20.0	UU dBm	والمتقدمة حمد الانتقاد		-10.47 CBII	
		and that he was a		inc. of a complete in the second state	Center Fred 5.750000000 GHz
-10.0		2 3			0.70000000 011
-20.0					Start Fred
-30.0					5.75000000 GH
	and approximately to the production of		والمطابقة ومعارجه المحمل ومراجع المقار		
-60.0	esta de la catalice per la catalicitada	aladija	n filo hand a fersi filo ha janskan haribu fil	ow gate	Stop Fred
-70.0					5.750000000 GHz
Center 5.7500000				Span 0 Hz	CF Step
Res BW 1.0 MHz	#VBV	V 3.0 MHz	-	00 ms (10001 pts)	1.000000 MHz <u>Auto</u> Mar
MKR MODE TRC SCL	× 1.124 ms	-16.47 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	
2 N 1 t 3 N 1 t 4	7.784 ms 10.63 ms	-16.57 dBm -13.42 dBm			Freq Offse
5					0 H2
5 6 7 8 9					
9 10					
11				¥	
11 sg			STATUS	×	
<)				×	
<)	Du	Ity Cycle NVNT	status a 5780MHz Ant1	×	
Agilent Spectrum Analyzer		Ity Cycle NVNT		02:16:39 PMFeb 18, 2025	
Agilent Spectrum Analyzer	- Swept SA 50 Ω AC 0000000 GHz	SENSE:INT	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW	Frequency
Kisg Agilent Spectrum Analyzer	- Swept SA 50 Ω AC	SENSE:INT	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW DET P N N N N	
Aglient Spectrum Analyzer	- Swept SA 50 Ω AC 00000000 GHz PNO: Wide → IFGain:Low	SENSE:INT	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW	
Agilent Spectrum Analyzer	- Swept SA 50 Ω AC PNO: Wide → IFGain:Low et 3.01 dB 00 dBm	SENSE:INT	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWWWW DET P N N N N PET P N N N N Mkr1 406.0 µs	Auto Tune
Agilent Spectrum Analyzer	- Swept SA 50 Ω AC 00000000 GHz PN0: Wide → IFGain:Low st 3.01 dB 00 dBm	SENSE:INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW DET P N N N N Mkr1 406.0 µs -16.18 dBm	Auto Tune Center Fred
Agilent Spectrum Analyzer	- Swept SA 50 Ω AC 00000000 GHz PN0: Wide → IFGain:Low st 3.01 dB 00 dBm	SENSE:INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW DET P N N N N Mkr1 406.0 µs -16.18 dBm	
Agilent Spectrum Analyzer Agilent Spectrum Analyzer RL RF Center Freq 5.78i Ref Offse 10 dB/div Ref 20.1 0.00 10.	- Swept SA 50 Ω AC 00000000 GHz PN0: Wide → IFGain:Low st 3.01 dB 00 dBm	SENSE:INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW DET P N N N N Mkr1 406.0 µs -16.18 dBm	Auto Tune Center Fred
Agilent Spectrum Analyzer RR RF Offse Center Freq 5.78i Ref Offse 10 dB/div Ref 20.i 0.00 10.0 10.0 10.0 10.0 10.0 10.0 1	- Swept SA 50 Ω AC 00000000 GHz PN0: Wide → IFGain:Low st 3.01 dB 00 dBm	SENSE:INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12:3 4 5 6 TYPE WWWWWWWW DET P N N N N Mkr1 406.0 µs -16.18 dBm -16.18 dBm	Auto Tune Center Frec 5.78000000 GH
Agilent Spectrum Analyzer X RL RF Center Freq 5.781 Ref Offse 10 dB/div Ref 20.1 0.00 10.0	- Swept SA 50 Ω AC PNO: Wide → IFGain:Low at 3.01 dB 00 dBm	SENSE:INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12:34 5 6 TYPE WWWWWWWWWWWWWWW OET P N N N N Mkr1 406.0 µs -16.18 dBm -16.18 dBm	Auto Tune Center Frec 5.78000000 GH2 Start Frec 5.78000000 GH2
Agilent Spectrum Analyzer RL RF Center Freq 5.78i 10.0 Ref Offse 10.0 Ref 20.1 10.0 1	- Swept SA 50 Ω AC PNO: Wide → IFGain:Low at 3.01 dB 00 dBm	SENSE:INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr	02:16:39 PMFeb 18, 2025 TRACE 12:34 5 6 TYPE WWWWWWWWWWWWWWW OET P N N N N Mkr1 406.0 µs -16.18 dBm -16.18 dBm	Auto Tune Center Frec 5.78000000 GHz Start Frec 5.78000000 GHz Stop Frec
Agilent Spectrum Analyzer RL RF Center Freq 5.78i 10.0 Ref Offse 10.0 1 -0.00	- Swept SA 50 Ω AC PNO: Wide → IFGain:Low at 3.01 dB 00 dBm	SENSE:INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr	02:16:39 PMFeb 18, 2025 TRACE 12:34 5 6 TYPE WWWWWWWWWWWWWWW OET P N N N N Mkr1 406.0 µs -16.18 dBm -16.18 dBm	Auto Tune Center Frec 5.78000000 GH2 Start Frec 5.78000000 GH2
Agilent Spectrum Analyzer Arsg Arsg Arsg Arsg Arsg Arsg Arsg Center Freq 5.781 Ref Offse 10.0 </td <td>- Swept SA 50 R AC 0000000 GHz PN0: Wide → IFGain:Low et 3.01 dB 00 dBm 2 2 10 db 00 db</td> <td>SENSE:INT Trig: Free Run #Atten: 40 dB</td> <td>a 5780MHz Ant1</td> <td>02:16:39 PMFeb 18, 2025 TRACE 12:34 5:6 TYPE 12:34 5:6 TYPE PNNNN Mkr1 406.0 µs -16.18 dBm -16.18 dBm -16.1</td> <td>Auto Tune Center Frec 5.78000000 GHz Start Frec 5.78000000 GHz Stop Frec 5.78000000 GHz</td>	- Swept SA 50 R AC 0000000 GHz PN0: Wide → IFGain:Low et 3.01 dB 00 dBm 2 2 10 db 00 db	SENSE:INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12:34 5:6 TYPE 12:34 5:6 TYPE PNNNN Mkr1 406.0 µs -16.18 dBm -16.18 dBm -16.1	Auto Tune Center Frec 5.78000000 GHz Start Frec 5.78000000 GHz Stop Frec 5.78000000 GHz
Apilent Spectrum Analyzer Arsc RL RL RF Center Freq 5.781 100 Ref Offse 100 Ref 20.1 100<	- Swept SA 50 g AC 0 0000000 GHz PN0: Wide → IFGain:Low et 3.01 dB 00 dBm 2 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12:34 5:6 TYPE 12:34 5:6 TYPE PNNNN Mkr1 406.0 µs -16.18 dBm -16.18 dBm -16.1	Auto Tune Center Frec 5.78000000 GH2 Start Frec 5.78000000 GH2 Stop Frec 5.78000000 GH2 CF Step 1.00000 MH2
Agilent Spectrum Analyzer Arsc RF Center Freq 5.781 Ref Offse 10 dB/div Ref 20.1 9 1 10 dB/div Ref 20.1 9 1 10 dB/div Ref 20.1 9 1 10 dB/div Ref 20.1 9 1 1 10 dB/div Ref 20.1 20 dB/div Ref 20.1 9 1 1 10 dB/div Ref 20.1 20 dB/div 1 1 10 dB/div 1 1	- Swept SA 50 Ω AC 0 0000000 GHz PN0: Wide → IFGain:Low at 3.01 dB 00 dBm 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 2 1 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	SENSE:INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12:34 5:6 TYPE 12:34 5:6 TYPE PNNNN Mkr1 406.0 µs -16.18 dBm -16.18 dBm -16.1	Auto Tune Center Frec 5.78000000 GHz Start Frec 5.78000000 GHz Stop Frec 5.78000000 GHz
Agilent Spectrum Analyzer Arsc RF Center Freq 5.781 Ref Offse 10 dB/div Ref 20.1 9 1 10 dB/div Ref 20.1 9 1 10 dB/div Ref 20.1 9 1 10 dB/div Ref 20.1 9 1 1 10 dB/div Ref 20.1 20 dB/div Ref 20.1 9 1 1 10 dB/div Ref 20.1 20 dB/div 1 1 10 dB/div 1 1	- Swept SA 0000000 GHz PN0: Wide → IFGain:Low et 3.01 dB 00 dBm 2 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:INT Trig: Free Run #Atten: 40 dB	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12:34 5:6 TYPE 12:34 5:6 TYPE PNNNN Mkr1 406.0 µs -16.18 dBm -16.18 dBm -16.1	Auto Tune Center Frec 5.78000000 GH2 Start Frec 5.78000000 GH2 Stop Frec 5.78000000 GH2 CF Step 1.00000 MH2
Agilent Spectrum Analyzer Arsc RF Center Freq 5.781 Ref Offse 10 dB/div Ref 20.1 9 1 10 dB/div Ref 20.1 9 1 10 dB/div Ref 20.1 9 1 10 dB/div Ref 20.1 9 1 1 10 dB/div Ref 20.1 20 dB/div Ref 20.1 9 1 1 10 dB/div Ref 20.1 20 dB/div 1 1 10 dB/div 1 1	- Swept SA 50 Ω AC 0 0000000 GHz PN0: Wide → IFGain:Low et 3.01 dB 00 dBm 2 2 Ut at the document of the document of the document of the document of the document of the document of the document of the document of the document of the	SENSE:INT Trig: Free Run #Atten: 40 dB Add out with a philosophic a philosop	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12:34 5:6 TYPE 12:34 5:6 TYPE PNNNN Mkr1 406.0 µs -16.18 dBm -16.18 dBm -16.1	Auto Tune Center Frec 5.78000000 GHz Start Frec 5.78000000 GHz Stop Frec 5.78000000 GHz CF Step 1.00000 MHz Auto Mar
Agilent Spectrum Analyzer Arsc RF Center Freq 5.781 Ref Offse 10 dB/div Ref 20.1 9 1 10 dB/div Ref 20.1 9 1 10 dB/div Ref 20.1 9 1 10 dB/div Ref 20.1 9 1 1 10 dB/div Ref 20.1 20 dB/div Ref 20.1 9 1 1 10 dB/div Ref 20.1 20 dB/div 1 1 10 dB/div 1 1	- Swept SA 50 Ω AC 0 0000000 GHz PN0: Wide → IFGain:Low et 3.01 dB 00 dBm 2 2 Ut at the document of the document of the document of the document of the document of the document of the document of the document of the document of the	SENSE:INT Trig: Free Run #Atten: 40 dB Add out with a philosophic a philosop	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12:34 5:6 TYPE 12:34 5:6 TYPE PNNNN Mkr1 406.0 µs -16.18 dBm -16.18 dBm -16.1	Auto Tune Center Frec 5.780000000 GH; Start Frec 5.780000000 GH; Stop Frec 5.780000000 GH; CF Step 1.00000 MH; Auto Mar
Applient Spectrum Analyzer Arsc RF Center Freq 5.781 Conter Freq 5.78000000 Center 5.780000000 Center 5.7800000000 Center 5.78000000000000000000000000000000000000	- Swept SA 50 Ω AC 0 0000000 GHz PN0: Wide → IFGain:Low et 3.01 dB 00 dBm 2 2 Ut at the document of the document of the document of the document of the document of the document of the document of the document of the document of the	SENSE:INT Trig: Free Run #Atten: 40 dB Add out with a philosophic a philosop	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12:34 5:6 TYPE 12:34 5:6 TYPE PNNNN Mkr1 406.0 µs -16.18 dBm -16.18 dBm -16.1	Auto Tune Center Frec 5.780000000 GH; Start Frec 5.780000000 GH; 5.780000000 GH; 5.780000000 GH; CF Step 1.00000 MH; Auto Mar
Agilent Spectrum Analyzer Arsc RF Center Freq 5.781 Ref Offse 10 dB/div Ref 20.1 9 1 10 dB/div Ref 20.1 9 1 10 dB/div Ref 20.1 9 1 10 dB/div Ref 20.1 9 1 1 10 dB/div Ref 20.1 20 dB/div Ref 20.1 9 1 1 10 dB/div Ref 20.1 20 dB/div 1 1 10 dB/div 1 1	- Swept SA 50 Ω AC 0 0000000 GHz PN0: Wide → IFGain:Low et 3.01 dB 00 dBm 2 2 Ut at the document of the document of the document of the document of the document of the document of the document of the document of the document of the	SENSE:INT Trig: Free Run #Atten: 40 dB Add out with a philosophic a philosop	a 5780MHz Ant1	02:16:39 PMFeb 18, 2025 TRACE 12:34 5:6 TYPE 12:34 5:6 TYPE PNNNN Mkr1 406.0 µs -16.18 dBm -16.18 dBm -16.1	Auto Tune Center Frec 5.780000000 GH; Start Frec 5.780000000 GH; Stop Frec 5.780000000 GH; CF Step 1.00000 MH; Auto Mar

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	Ε	Duty Cycle NVN	a 5820MHz Ant1		
Agilent Spectrum Analyzer X/ RL RF		SENSE:INT	ALIGN AUTO	02:19:50 PMFeb 18, 2025	-
Center Freq 5.82	0000000 GHz PNO: Wide	🛶 Trig: Free Run	Avg Type: Log-Pwr	TRACE 123456 TYPE WWWWWWW DET P N N N N	
	IFGain:Low	#Atten: 40 dB		Mkr1 3.426 ms	Auto Tun
10 dB/div Ref 20.	et 3.03 dB 00 dBm			-13.65 dBm	
10.0			all south		Center Fre
	M		idgahatini. 3		5.820000000 GH
-10.0	\	²			
-20.0					Start Fre
-30.0	atur landa da serie da la planta da serie da se	and the second	version and the second	amonto anglaticasidates	5.820000000 GH
-50.0	anto este la biologia de la sete este s	nte di tetanti stata	and the state of the second	halan plaaking daa pidaa dala	
-60.0					Stop Fre 5.820000000 GH
-70.0					0.0200000000
Center 5.82000000			0	Span 0 Hz	CF Ste
Res BW 1.0 MHz	#VE	BW 3.0 MHz	Sweep 20	0.00 ms (10001 pts)	1.000000 MH <u>Auto</u> Ma
1 N 1 t	3.426 ms	-13.65 dBm -14.30 dBm	ONCTION FUNCTION WIDTH		
3 N 1 t	10.09 ms 12.93 ms	-12.52 dBm			Freq Offse
5					0 -
4 5 6 7 8					
9 10					
11					
ISG	[Duty Cycle NVN	status a 5750MHz Ant2	3	
Agilent Spectrum Analyzer	- Swept SA 50 Ω AC 0000000 GHz	SENSE:INT		02:03:52 PMFeb 18, 2025	Frequency
Agilent Spectrum Analyzer RE RE Center Freq 5.75	- Swept SA 50 Ω AC 0000000 GHz PNO: Wide IFGain:Low	SENSE:INT	a 5750MHz Ant2	02:03:52 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWW DET P N N N N	AutoTur
kglient Spectrum Analyzer ∦ RL RF Center Freq 5.75 Ref Offse 10 dB/div Ref 20.	- Swept SA 50 Ω AC 00000000 GHz PNO: Wide	SENSE:INT	a 5750MHz Ant2	02:03:52 PMFeb 18, 2025 TRACE 12 2 4 5 6 TYPE	AutoTup
Aglient Spectrum Analyzer RL RF Center Freq 5.75 Ref Offse 10 dB/div Ref 20. 10.0	- Swept SA 50 Ω AC 0000000 GHz PNO: Wide IFGain:Low	SENSE:INT	a 5750MHz Ant2	02:03:52 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW DET P NNNN Mkr1 1.112 ms -19.92 dBm	Auto Tun
Agilent Spectrum Analyzer R RL RF Center Freq 5.75 Ref Offse 10 dB/div Ref 20.	- Swept SA 50 Ω AC 0000000 GHz PNO: Wide IFGain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	a 5750MHz Ant2	02:03:52 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWW DET P N N N N Mkr1 1.112 ms -19.92 dBm	Auto Tun Center Fre
Ref Offse Ref Offse 0 dB/div Ref 20.	- Swept SA 50 Ω AC 0000000 GHz PNO: Wide IFGain:Low	SENSE:INT	a 5750MHz Ant2	02:03:52 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW DET P NNNN Mkr1 1.112 ms -19.92 dBm	Auto Tun Center Fre
Aglient Spectrum Analyzer R RL RF Center Freq 5.75 Ref Offse Ref Offse Ref 0 Ref	- Swept SA 50 Ω AC 0000000 GHz PNO: Wide IFGain:Low	SENSE:INT	a 5750MHz Ant2	02:03:52 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW DET P NNNN Mkr1 1.112 ms -19.92 dBm	Auto Tun Center Fre 5.75000000 GF Start Fre
Ref Offse Ref Offse 0 dB/div Ref 20.	- Swept SA 50 Ω AC 0000000 GHz PNO: Wide IFGain:Low	SENSE:INT	a 5750MHz Ant2	02:03:52 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW DET P NNNN Mkr1 1.112 ms -19.92 dBm	Auto Tun Center Fre 5.75000000 GF Start Fre
Ref Offse 0 B/div 10 B/div 1	- Swept SA 50 Q AC PNO; Wide IFGain:Low et 3.13 dB 00 dBm	SENSE:INT → Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr	02:03:52 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW DET P NNNN Mkr1 1.112 ms -19.92 dBm	Auto Tun Center Fre 5.75000000 GH Start Fre 5.75000000 GH
sgilent Spectrum Analyzer R L RF Center Freq 5.75 Ref Offse 0 dB/div Ref Offse 0 00 H ¹ H ¹ H ¹ 0.00 H ¹ H ¹ H ¹ 10.0 1 0.00 H ¹ H ¹ H ¹ 10.0 1 0.00 H ¹ H ¹ H ¹ 10.0 1 0.00 H ¹ H ¹ H ¹ 10.0 1 0.00 1 0.00 1 0.00 1 0.00 1	- Swept SA 50	SENSE:INT → Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr	02:03:52 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW DET P NNNN Mkr1 1.112 ms -19.92 dBm	Auto Tur Center Fre 5.75000000 GF Start Fre 5.75000000 GF Stop Fre
Agilent Spectrum Analyzer RL RF Center Freq 5.75 Conter Freq 5.75	- Swept SA 50 @ AC PNO: Wide IFGain:Low et 3.13 dB 00 dBm	SENSE:INT → Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr	02:03:52 PMFeb 18, 2025 TRACE 12 3 4 5 6 TVDET P N N N N Mkr1 1.112 ms -19.92 dBm	Auto Tun Center Fre 5.75000000 GF Start Fre 5.75000000 GF Stop Fre
Ref Offse 0 B/div Ref Offse 10 dB/div Ref Offse 0 000 1 0 0	- Swept SA 50 R AC PN0: Wide IFGain:Low et 3.13 dB 00 dBm 	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr	S 102:03:52 PMFeb 18, 2025 TRACE 12: 3 4 5 6 TYPE TYPE Mkr1 1.112 ms -19.92 dBm -19.92 dBm -1	Auto Tun Center Fre 5.75000000 GF Start Fre 5.75000000 GF 5.75000000 GF
Image: section of the secti	- Swept SA 50 R AC PN0: Wide IFGain:Low et 3.13 dB 00 dBm 	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr	S 102:03:52 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW MKr1 1.112 ms -19.92 dBm -19.92 dBm -	Auto Tun Center Fre 5.75000000 GH Start Fre 5.75000000 GH Stop Fre 5.75000000 GH CF Ste 1.00000 MH
Agilent Spectrum Analyzer Ref Offse Center Freq 5.75 Ref Offse 10 dB/div Ref 20. 00 0 10 0	- Swept SA 50 R AC PN0: Wide IFGain:Low et 3.13 dB 00 dBm 	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO AUGN AUTO Avg Type: Log-Pwr	S 102:03:52 PMFeb 18, 2025 TRACE 12:34 5 6 TYPE WWWWWWW MKr1 1.112 ms -19.92 dBm -19.92 dBm -1	Auto Tun Center Fre 5.750000000 GH Start Fre 5.750000000 GH Stop Fre 5.750000000 GH CF Ste 1.000000 MH Auto
Agilent Spectrum Analyzer X RL RF Center Freq 5.75 Ref Offse 10 dB/div Ref 20. 000 10.0 1	- Swept SA 50 & AC 0000000 GHz PN0: Wide IFGain:Low et 3.13 dB 00 dBm under the second	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO AUGN AUTO Avg Type: Log-Pwr	S 102:03:52 PMFeb 18, 2025 TRACE 12:34 5 6 TYPE WWWWWWW MKr1 1.112 ms -19.92 dBm -19.92 dBm -1	Auto Tun Center Fre 5.75000000 GF Start Fre 5.750000000 GF Stop Fre 5.750000000 GF CF Ste 1.00000 MF Auto Freq Offsed
Agilent Spectrum Analyzer X RL RF Center Freq 5.75 Ref Offse 10 dB/div Ref 20. 000 10.0 1	- Swept SA 50 R AC PN0: Wide IFGain:Low et 3.13 dB 00 dBm 	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO AUGN AUTO Avg Type: Log-Pwr	S 102:03:52 PMFeb 18, 2025 TRACE 12:34 5 6 TYPE WWWWWWW MKr1 1.112 ms -19.92 dBm -19.92 dBm -1	Auto Tun Center Fre 5.750000000 GH Start Fre 5.750000000 GH Stop Fre 5.750000000 GH CF Ste 1.000000 MH Auto
Agilent Spectrum Analyzer X RL RF Center Freq 5.75 Ref Offse 10 dB/div Ref 20. 000 10.0 1	- Swept SA 50 R AC PN0: Wide IFGain:Low et 3.13 dB 00 dBm 	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO AUGN AUTO Avg Type: Log-Pwr	S 102:03:52 PMFeb 18, 2025 TRACE 12:34 5 6 TYPE WWWWWWW MKr1 1.112 ms -19.92 dBm -19.92 dBm -1	Auto Tun Center Fre 5.75000000 GF Start Fre 5.750000000 GF Stop Fre 5.750000000 GF CF Ste 1.00000 MF Auto Freq Offsed
Agilent Spectrum Analyzer R R Ref Center Freq 5.755 Conter Freq 5.755 10 B/div 10 B/div 10 B/div 10 B/div 10 B/div 10 B/div 100 B/div 100 B/div 100 B/div 100 B/div 100 B/div 10 B/div 10 B/div	- Swept SA 50 R AC PN0: Wide IFGain:Low et 3.13 dB 00 dBm 	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO AUGN AUTO Avg Type: Log-Pwr	S 102:03:52 PMFeb 18, 2025 TRACE 12:34 5 6 TYPE WWWWWWW MKr1 1.112 ms -19.92 dBm -19.92 dBm -1	Auto Turn Center Fre 5.750000000 GF Start Fre 5.750000000 GF Stop Fre 5.750000000 GF CF Ste 1.000000 MF Auto Freq Offse
Iglent Spectrum Analyzer RL RF Center Freq 5.75 Ref Offse 10.0 1 000 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 10.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 20.0 1 30.0 1 1 1	- Swept SA 50 R AC PN0: Wide IFGain:Low et 3.13 dB 00 dBm 	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO AUGN AUTO Avg Type: Log-Pwr	S 102:03:52 PMFeb 18, 2025 TRACE 12:34 5 6 TYPE WWWWWWW MKr1 1.112 ms -19.92 dBm -19.92 dBm -1	Auto Tun Center Fre 5.75000000 GF Start Fre 5.750000000 GF Stop Fre 5.750000000 GF CF Ste 1.00000 MF Auto Freq Offsed

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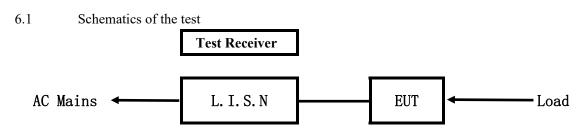


		5780MHz Ant2		Duty Cyck	C	
						rum Analyzer - Swe
Frequency	02:06:57 PM Feb 18, 2025 TRACE 1 2 3 4 5 6 TYPE WWWWWWW	ALIGN AUTO Avg Type: Log-Pwr			0000 GHz	RF 50 Ω Freq 5.78000
Auto Tur	DET P NNNN		40 dB		PNO: Wide • IFGain:Low	
Auto Tui	Mkr1 1.890 ms -19.59 dBm					Ref Offset 3.0 Ref 20.00 d
	and dimension		al structure	and a state		Kei 20.00 u
Center Fre 5.78000000 GH	Production of the Aug		er andera der	in antibus		phanton and a state of the stat
						1
Start Fre						
5.78000000 GH	destanting the second	an a		Complete Market	Interior differentier to the	annes harrow
	out and a second	a det di para per la dide pi da para per		Mildon and	A Cat. more than this personal	option of the state
Stop Fre 5.780000000 GH						
CF Ste	Span 0 Hz	Sween 20	_	VBW 3.0 MH		.780000000 G 1.0 MHz
1.000000 MH <u>Auto</u> Ma	.00 ms (10001 pts)	-	Z		#VD	
			iBm	-19.59 (1.890 ms 8.552 ms	1 t 1 t
Freq Offso 0 H					11.39 ms	1 t
0	=					
	×					
		STATUS	e NVNT a	Duty Cycle		rum Analyzer - Swe
Auto Tur	02:10:02 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE OET P N N N N Mkr1 3.410 ms	5820MHz Ant2 Alignauto Avg Type: Log-Pwr	ENSE:INT	s le ⊶ə⊷ Trig:Fr	Pt SA AC OOOO GHz PNO: Wide * IFGain:Low	rum Analyzer - Swe RF 50 Ω Freq 5.82000
Auto Tur	02:10:02 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WHATMAN DET P N N N N	5820MHz Ant2 Alignauto Avg Type: Log-Pwr	ense:Int ee Run 40 dB	s le ⊶ə⊷ Trig:Fr	AC DODO GHZ PNO: Wide - IFGain:Low 3 dB	Ref Offset 3.0 Ref 20.00 d
Auto Tun Center Fre	02:10:02 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE OET P N N N N Mkr1 3.410 ms	5820MHz Ant2 ALIGNAUTO Avg Type: Log-Pwr	ENSE:INT	s le ⊶ə⊷ Trig:Fr	AC DODO GHZ PNO: Wide - IFGain:Low 3 dB	Ref Offset 3.0 Ref 20.00 d
Auto Tun	02:10:02 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE OET P N N N N Mkr1 3.410 ms	5820MHz Ant2	ENSE:INT 20 Run 40 dB	s le ⊶ə⊷ Trig:Fr	AC DODO GHZ PNO: Wide - IFGain:Low 3 dB	Ref Offset 3.0 Ref 20.00 d
Auto Tun Center Fre 5.820000000 GF	02:10:02 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE OET P N N N N Mkr1 3.410 ms	5820MHz Ant2 ALIGNAUTO Avg Type: Log-Pwr	ENSE:INT 20 Run 40 dB	s le ⊶ə⊷ Trig:Fr	AC DODO GHZ PNO: Wide - IFGain:Low 3 dB	Ref Offset 3.0 Ref 20.00 d
Auto Tun Center Fre	02:10:02 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWW OET N N N N N Mkr1 3.410 ms -19.17 dBm	5820MHz Ant2 Avg Type: Log-Pwr 1/10 3 3	ENSE:INT 20 Run 40 dB	Ie → Trig: Fr w #Atten:	AC PNO: Wide FFGain:Low	RF 50 Ω req 5.82000 Ref Offset 3.0 Ref 20.00 d Ref 20.00 d Image: the second s
Center Fre 5.820000000 GF	02:10:02 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE OET P N N N N Mkr1 3.410 ms	5820MHz Ant2 5820MHz Ant2 Avg Type: Log-Pwr 1/10 0 0 0 0 0 0 0 0 0 0 0 0 0		Ie → Trig: Fr W #Atten:	AC DODO GHZ PNO: Wide - IFGain:Low 3 dB	RF 50 2 Ref Offset 3.0 Ref 20.00 d Control of the set of the se
Auto Tun Center Fre 5.82000000 GF 5.82000000 GF 5.82000000 GF	02:10:02 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	5820MHz Ant2 5820MHz Ant2 Avg Type: Log-Pwr 1/10 0 0 0 0 0 0 0 0 0 0 0 0 0		Ie → Trig: Fr W #Atten:	pt SA AC PN0: Wide IFGain:Low 3 dB BM If the applied with the	RF 50 2 Ref Offset 3.0 Ref 20.00 d Control of the set of the se
Center Fre 5.820000000 GF 5.820000000 GF	02:10:02 PMFeb 18, 2025 TRACE 12 3 4 5 6 TYPE WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	5820MHz Ant2 5820MHz Ant2 Avg Type: Log-Pwr 1/10 0 0 0 0 0 0 0 0 0 0 0 0 0		Ie → Trig: Fr W #Atten:	pt SA AC PN0: Wide IFGain:Low 3 dB BM If the applied with the	RF 50 2 Ref Offset 3.0 Ref 20.00 d Control of the set of the se
Frequency Auto Tun Center Fre 5.820000000 GF Start Fre 5.820000000 GF Stop Fre 5.820000000 GF	02:10:02 PMFeb 18, 2025 TRACE 12.3 4 5.6 TYPE 12.3 4 5.6 TYPE 12.3 4 5.6 TYPE 12.3 4 5.6 TYPE 12.5 4 5.	5820MHz Ant2 5820MHz Ant2 Avg Type: Log-Pwr National States of the second states of the se	ENSE:INT	te →→ Trig: Fr. #Atten:	pt SA AC PN0: Wide - IFGain:Low 3 dB Bm Ink interplete in part (den ink interplete in part (den	RF 50 Ω req 5.82000 Ref Offset 3.0 Ref 20.00 d Ref 20.00 d Image: the second s
Frequency Auto Tun Center Fre 5.820000000 GF Start Fre 5.820000000 GF Stop Fre 5.820000000 GF CF Ste 1.000000 MF	02:10:02 PMFeb 18, 2025 TRACE 12:34 5.6 TYPE	5820MHz Ant2 5820MHz Ant2 Avg Type: Log-Pwr 10 10 10 10 10 10 10 10 10 10	ENSE:INT	Ie → Trig: Fr W #Atten:	pt SA AC PN0: Wide - IFGain:Low 3 dB Bm In Vinewer of Up Auroni, of Au In Vinewer of Up Auroni, of Auroni, of Au In Vinewer of Up Auroni, of Auroni	Ref Offset 3.0 Ref 20.00 d Ref
Frequency Auto Tun Center Fre 5.820000000 GF Start Fre 5.820000000 GF Stop Fre 5.820000000 GF CF Ste 1.000000 MF	02:10:02 PMFeb 18, 2025 TRACE 12:34 5.6 TYPE	5820MHz Ant2 5820MHz Ant2 Avg Type: Log-Pwr National States of the second states of the se	ENSE:INT see Run 40 dB 2 2 2 2 2 3 3 Bm	Ie → Trig: Fr w #Atten: dob.log.org.t.l. Atten: #At	pt SA AC PNO: Wide IFGain:Low 3 dB Bm In Vision College In Visi	Ref 50 Ω req 5.82000 Ref 20.00 d Image: Second sec
Step Frequency Auto Tun Center Fre 5.820000000 GF Start Fre 5.820000000 GF Stop Fre 5.820000000 GF CF Ste 1.000000 MF Ma Auto Ma	02:10:02 PMFeb 18, 2025 TRACE 12:34 5.6 TYPE	5820MHz Ant2 5820MHz Ant2 Avg Type: Log-Pwr 10 10 10 10 10 10 10 10 10 10	ENSE:INT se Run 40 dB	Ie → Trig: Fr. #Atten: #Att	pt 5A AC DOOO GHZ PNO: Wide - IFGain:Low 3 dB Bm () A the optical states of the bit (of point of the	RF 50 Ω req 5.82000 Ref Offset 3.0 Ref 20.00 d d Image: Second state
Frequency Auto Tun Center Fre 5.820000000 GF Start Fre 5.820000000 GF Stop Fre 5.820000000 GF CF Ste 1.000000 MF Auto Ma	02:10:02 PMFeb 18, 2025 TRACE 12:34 5.6 TYPE	5820MHz Ant2 5820MHz Ant2 Avg Type: Log-Pwr 10 10 10 10 10 10 10 10 10 10	ENSE:INT se Run 40 dB	Ie → Trig: Fr. #Atten: #Att	Pt SA AC DOOD GHZ PN0: Wide - IFGain:Low 3 dB Bm Interpreted up 41/404 Interpreted	Ref Offset 3.0 Ref 20.00 d Ref
Step Frequency Auto Tun Center Fre 5.820000000 GF Start Fre 5.820000000 GF Stop Fre 5.820000000 GF CF Ste 1.000000 MF Ma Auto Ma	02:10:02 PMFeb 18, 2025 TRACE 12:34 5.6 TYPE	5820MHz Ant2 5820MHz Ant2 Avg Type: Log-Pwr 10 10 10 10 10 10 10 10 10 10	ENSE:INT se Run 40 dB	Ie → Trig: Fr. #Atten: #Att	Pt SA AC DOOD GHZ PN0: Wide - IFGain:Low 3 dB Bm Interpreted up 41/404 Interpreted	Ref Offset 3.0 Ref 20.00 d Ref
Step Frequency Auto Tun Center Fre 5.820000000 GF Start Fre 5.820000000 GF Stop Fre 5.820000000 GF CF Ste 1.000000 MF Ma Auto Ma	02:10:02 PMFeb 18, 2025 TRACE 12:34 5.6 TYPE	5820MHz Ant2 5820MHz Ant2 Avg Type: Log-Pwr 10 10 10 10 10 10 10 10 10 10	ENSE:INT se Run 40 dB	Ie → Trig: Fr. #Atten: #Att	Pt SA AC DOOD GHZ PN0: Wide - IFGain:Low 3 dB Bm Interpreted up 41/404 Interpreted	Ref Offset 3.0 Ref 20.00 d Ref
Step Frequency Auto Tun Center Fre 5.820000000 GF Start Fre 5.820000000 GF Stop Fre 5.820000000 GF CF Ste 1.000000 MF Ma Auto Ma	02:10:02 PMFeb 18, 2025 TRACE 12:34 5.6 TYPE	5820MHz Ant2 5820MHz Ant2 Avg Type: Log-Pwr 10 10 10 10 10 10 10 10 10 10	ENSE:INT se Run 40 dB	Ie → Trig: Fr. #Atten: #Att	Pt SA AC DOOD GHZ PN0: Wide - IFGain:Low 3 dB Bm Interpreted up 41/404 Interpreted	Ref Offset 3.0 Ref 20.00 d Ref

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6. Power Line Conducted Emission Test

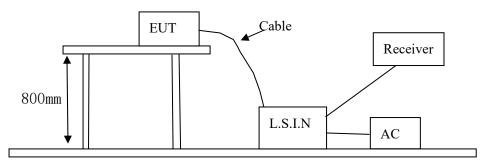


EUT: Equipment Under Test

6.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.10–2013. Test Voltage: N/A

Block diagram of Test setup



6.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

А.	EUT			
	Device	Manufacturer	Model	FCC ID
	Agricultural	DMR Technologies	Field Ranger X50, Field Ranger	2BM3J-X50
ur	nmarmed drone			

B.	Internal Device

Device	Manufacturer	Model	Rating

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	1

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

- 6.4 EUT Operating Condition Operating condition is according to ANSI C63.10 -2013.
- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

Frequency	Limits (dB µ V)					
(MHz)	Quasi-peak Level	Average Level				
$0.15~\sim~0.50$	66.0~56.0*	56.0~46.0*				
$0.50~\sim~5.00$	56.0	46.0				
$5.00~\sim~30.00$	60.0	50.0				

6.5 Power line conducted Emission Limit according to Paragraph 15.207

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

6.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: EUT not directly or in-directly connected to the AC power source. so this test item not applicable.

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N/A

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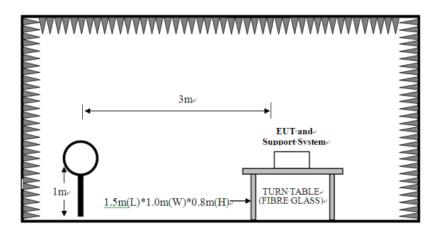


7 Undesirable Emission and Restrict band

- 7.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 40 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz, VBW=3MHz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

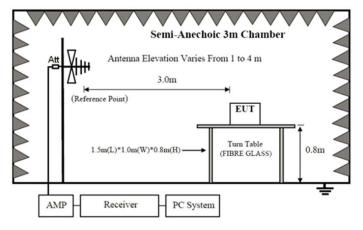


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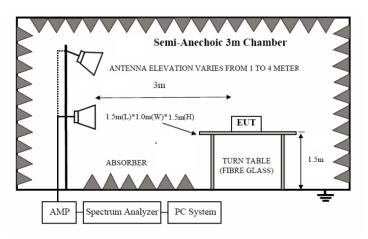
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 7.2 Configuration of The EUT Same as section 5.3 of this report
- 7.3 EUT Operating Condition Same as section 5.4 of this report.
- 7.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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que neres in - estimete a su	Trequencies in resolution same are complete to mint on range up reserve							
Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)						
30-88	3	40.0						
88-216	3	43.5						
216-960	3	46.0						
Above 960	3	54.0						

Frequencies in restricted band are complied to limit on Paragraph 15.209

(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz

- (2) For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27dBm/MHz.
- Note: 1. RF Voltage $(dBuV) = 20 \log RF$ Voltage (uV)
 - 2. In the Above Table, the higher limit applies at the band edges.
 - 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

Note: 1. RE tests are all in MIMO mode

2. Only the worst case was recorded in the test report.

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Test result General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

Pass

EUT set Condition: Keeping Transmitting

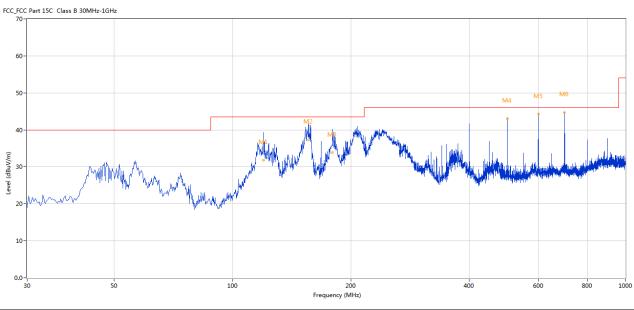
Results:

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Test Figure:



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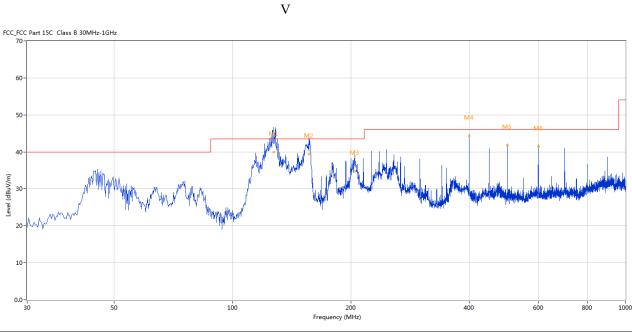
No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1*	119.945	31.72	-8.70	43.5	11.78	QP	111.00	150	Horizontal	Pass
2*	156.068	37.33	-10.38	43.5	6.17	QP	199.00	150	Horizontal	Pass
3*	179.585	33.93	-8.93	43.5	9.57	QP	71.00	150	Horizontal	Pass
4*	500.090	43.04	-2.34	46.0	2.96	QP	83.00	150	Horizontal	Pass
5*	599.975	44.23	0.09	46.0	1.77	QP	77.00	150	Horizontal	Pass
6*	699.860	44.70	0.83	46.0	1.30	QP	100.00	150	Horizontal	Pass

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Test Figure:



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1*	127.461	39.94	-8.99	43.5	3.56	QP	255.00	150	Vertical	Pass
2*	156.311	39.38	-10.39	43.5	4.12	QP	29.00	150	Vertical	Pass
3*	204.556	34.79	-8.08	43.5	8.71	QP	118.00	150	Vertical	Pass
4*	399.963	44.26	-2.94	46.0	1.74	QP	90.00	150	Vertical	Pass
5*	499.848	41.78	-2.33	46.0	4.22	QP	260.00	150	Vertical	Pass
6*	599.975	41.40	0.09	46.0	4.60	QP	149.00	150	Vertical	Pass

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operation mouth	Operation folder. Reeping fransmitting fold Danawidth						
Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)				
5750.00	96.03 (PK)	V	Even down ow tol Even av on over				
5750.00	85.18 (PK)	Н	Fundamental Frequency				
11500		V	74(Peak)/ 54(AV)				
11500		Н	74(Peak)/ 54(AV)				
17250		H/V	74(Peak)/ 54(AV)				
23000		H/V	74(Peak)/ 54(AV)				
28750		H/V	74(Peak)/ 54(AV)				
34500		H/V	74(Peak)/ 54(AV)				

Operation Mode: Keeping Transmitting-10M Bandwidth

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

Operation Mode: Keeping Transmitting-10M Bandwidth

-	1 8 8		
Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
5780.00	94.56 (PK)	V	Even do montol Eno avon ov
5780.00	83.34 (PK)	Н	Fundamental Frequency
11560		V	74(Peak)/ 54(AV)
11560		Н	74(Peak)/ 54(AV)
17340		H/V	74(Peak)/ 54(AV)
23120		H/V	74(Peak)/ 54(AV)
28900		H/V	74(Peak)/ 54(AV)
34680		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

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Operation Mode: Keeping Transmitting-10M Bandwidth

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
5820.00	97.27 (PK)	V	Fundamental Frequency
5820.00	85.98 (PK)	Н	Fundamental Frequency
11640		V	74(Peak)/ 54(AV)
11640		Н	74(Peak)/ 54(AV)
17460		H/V	74(Peak)/ 54(AV)
23280		H/V	74(Peak)/ 54(AV)
29100		H/V	74(Peak)/ 54(AV)
34920		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

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adopt any other remedies which may be appropriate.



Restricted band Measurement						
EUT	Agricultural	unmarmed drone	Test Mode:	5750MHz-10M Bandwidth		
Mode	Keeping	g Transmitting	Input Voltage	DC76.5V		
Temperature	24	deg. C,	Humidity	56% RH		
Test Result:	Pass		Detector	РК		
5725	PK (dBµV/m)	52.5 (PK)	т,			
	EIRP (dBm) -42.7		Limit	-17dBm/MHz		
Polarity	Vertical					

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

 $EIRP[dBm] = E[dB\mu V/m] - 95.2$

For Example, if $E[dB\mu V/m] = 52.5dB\mu V/m$,

 $EIRP[dBm] = E[dB\mu V/m] - 95.2 = 52.5 - 95.2 = -42.7 dBm$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement						
EUT	Agricultural	unmarmed drone	Test Mode:	5750MHz-10M Bandwidth		
Mode	Keeping	g Transmitting	Input Voltage	DC76.5V		
Temperature	24	deg. C,	Humidity	56% RH		
Test Result:	Pass		Detector	РК		
5725	PK (dBµV/m)	47.7(PK)	T · · ·			
	EIRP (dBm) -47.5		Limit	-17dBm/MHz		
Polarity	Horizontal					

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

 $EIRP[dBm] = E[dB\mu V/m] - 95.2$

For Example, if $E[dB\mu V/m] = 47.7 dB\mu V/m$,

 $EIRP[dBm] = E[dB\mu V/m] - 95.2 = 47.7 - 95.2 = -47.5 dBm$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement						
EUT	Agricultural	unmarmed drone	Test Mode:	5820MHz-10M Bandwidth		
Mode	Keeping	g Transmitting	Input Voltage	DC76.5V		
Temperature	24	deg. C,	Humidity	56% RH		
Test Result:	Pass		Detector	РК		
5850	PK (dBµV/m)	56.8(PK)	T :			
	EIRP (dBm) -38.4		Limit	-17dBm/MHz		
Polarity	V	Vertical				

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

 $EIRP[dBm] = E[dB\mu V/m] - 95.2$

For Example, if $E[dB\mu V/m] = 56.8 dB\mu V/m$,

 $EIRP[dBm] = E[dB\mu V/m] - 95.2 = 56.8 - 95.2 = -38.4 dBm$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement						
EUT	Agricultural	unmarmed drone	Test Mode:	5820MHz-10M Bandwidth		
Mode	Keeping	g Transmitting	Input Voltage	DC76.5V		
Temperature	24 deg. C,		Humidity	56% RH		
Test Result:	Pass		Detector	РК		
5850	PK (dBµV/m)	53.6 (PK)	T · · ·			
	EIRP (dBm) -41.6		– Limit	-17dBm/MHz		
Polarity	Но	orizontal				

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

 $EIRP[dBm] = E[dB\mu V/m] - 95.2$

For Example, if $E[dB\mu V/m] = 53.6dB\mu V/m$,

 $EIRP[dBm] = E[dB\mu V/m] - 95.2 = 53.6 - 95.2 = -41.6 dBm$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement						
EUT	Agricultural	unmarmed drone	Test Mode:	5750MHz-20M Bandwidth		
Mode	Keeping	, Transmitting	Input Voltage	DC76.5V		
Temperature	24	deg. C,	Humidity	56% RH		
Test Result:	Pass		Detector	РК		
5725	PK (dBµV/m)	51.2 (PK)	T :!4	17 JD / MIL-		
	EIRP (dBm) -44.0		Limit	-17dBm/MHz		
Polarity	V	Vertical				

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

 $EIRP[dBm] = E[dB\mu V/m] - 95.2$

For Example, if $E[dB\mu V/m] = 51.2dB\mu V/m$,

 $EIRP[dBm] = E[dB\mu V/m] - 95.2=51.2-95.2=-44.0dBm$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement						
EUT	Agricultural	unmarmed drone	Test Mode:	5750MHz-20M Bandwidth		
Mode	Keeping	Transmitting	Input Voltage	DC76.5V		
Temperature	24 deg. C,		Humidity	56% RH		
Test Result:	Pass		Detector	РК		
5725	PK (dBµV/m)	48.4(PK)	T :			
	EIRP (dBm)	Bm) -46.8 Limit		-17dBm/MHz		
Polarity	Но	Horizontal				

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

 $EIRP[dBm] = E[dB\mu V/m] - 95.2$

For Example, if $E[dB\mu V/m] = 48.4dB\mu V/m$,

 $EIRP[dBm] = E[dB\mu V/m] - 95.2 = 48.4 - 95.2 = -46.8 dBm$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement					
EUT	Agricultural	unmarmed drone	Test Mode:	5820MHz-20M Bandwidth	
Mode	Keeping	g Transmitting	Input Voltage	DC76.5V	
Temperature	24	deg. C,	Humidity	56% RH	
Test Result:	Pass		Detector	РК	
5850	PK (dBµV/m)	51.0 (PK)	т,		
	EIRP (dBm) -44.2		Limit	-17dBm/MHz	
Polarity	V	Vertical			

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

 $EIRP[dBm] = E[dB\mu V/m] - 95.2$

For Example, if $E[dB\mu V/m] = 51.0dB\mu V/m$,

 $EIRP[dBm] = E[dB\mu V/m] - 95.2 = 51.0 - 95.2 = -44.2dBm$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement						
EUT	Agricultural	unmarmed drone	Test Mode:	5820MHz-20M Bandwidth		
Mode	Keeping	Transmitting	Input Voltage	DC76.5V		
Temperature	24 deg. C,		Humidity	56% RH		
Test Result:	Pass		Detector	РК		
5850	PK (dBµV/m)	46.2 (PK)	T insid			
	EIRP (dBm)	-49.0	Limit	-17dBm/MHz		
Polarity	Horizontal					

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

 $EIRP[dBm] = E[dB\mu V/m] - 95.2$

For Example, if $E[dB\mu V/m] = 46.2dB\mu V/m$,

 $EIRP[dBm] = E[dB\mu V/m] - 95.2 = 46.2 - 95.2 = -49.0 dBm$

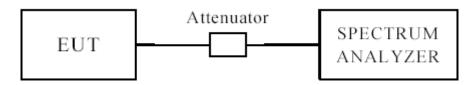
2. RBW=1MHz, VBW=3MHz

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8.0 Emission Bandwidth 8.1 Test Setup



8.3 Test Procedure for Emission Bandwidth

- 1. Set RBW = approximately 1% of the emission bandwidth.
- 2. Set VBW> RBW
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.

Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

8.4 Test Procedure for Minimum Bandwidth for the Band 5725-5850MHz

- 1. Set RBW = 100 kHz.
- 2. Set VBW \geq 3 \times RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

8.5 Test Procedure for 99% Bandwidth

- 1. Set center frequency to the nominal EUT channel center frequency
- 2. Set span = 1.5 times to 5.0 times OBW
- 3. Set RBW= 1% TO 5% of the OBW
- 4. Set VBW \geq 3 \times RBW
- 5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be

used. Other, peak detection and max mode (until trace stabilizes) shall be used.

6. Use the 99% power bandwidth function of the instrument

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8.6 Test Result

-6dB Bandwidth

10M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict	
		5750		9.354	0.5	Pass	
		5780	Ant1	Ant1	9.356	0.5	Pass
	NVNT a 5820 5750 5780 5820		9.31	0.5	Pass		
INVINI			9.401	0.5	Pass		
		5780	Ant2	9.445	0.5	Pass	
		5820		9.431	0.5	Pass	

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		Test Graphs			
	-6dB Bandv	width NVNT a 57	50MHz An	t1	
gilent Spectrum Analyzer - Occupied BW					
RL RF 50 Ω AC Center Freq 5.750000000	GH7 Cente	SENSE:INT r Freq: 5.750000000 GH:	ALIGN AUTO	01:29:25 PMFeb 18 Radio Std: None	
	Trig: F	FreeRun Avg Ho n:30 dB	old: 100/100	Radio Device: B	TS
	an ounicon		Mkr3	5.754672 (
Ref Offset 3.01 dB 0 dB/div Ref 23.01 dBm				0.95253 d	Bm
.og 13.0	-1		2		Center Freq
3.01	2 Million Anger Marco Mar	al the mathematican property logot of	,		5.75000000 GHz
6.99					
27.0					
	HV PHINI		Myself Hard Spend Marchine	and them are a	
17.0 How many how we have the second se				and a start whether a start with a first of the start of	Minsolay
57.0					
57.0					—
enter 5.75 GHz				Span 30	
Res BW 100 kHz	#	VBW 300 kHz		Sweep 3.33	3.000000 MHz
Occupied Bandwidth	I	Total Power	21.8	dBm	<u>Auto</u> Mar
9.3	8557 MHz				Freq Offse
Transmit Freq Error	-5.000 kHz	OBW Power	99	.00 %	0 Hz
x dB Bandwidth	9.354 MHz	x dB	-6.	00 dB	
SG			STATUS		
8G	-6dB Bandv	vidth NVNT a 57			
		vidth NVNT a 57			
gilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC	/	SENSE:INT	80MHz An	01:32:00 PM Feb 18	
gilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 5.780000000 (GHz Cente →→ Trig:F	SENSE:INT r Freq: 5.78000000 GH: Free Run Avg Ho	80MHz An	01:32:00 PMFeb 18 Radio Std: None	Frequency
gilent.Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 5.7800000000	GHz Cente	SENSE:INT	80MHz An Align Auto ² 51d: 100/100	01:32:00 PMFeb 18 Radio Std: None Radio Device: B	Frequency
glient Spectrum Analyzer - Occupied BW RL RF 50 Q AC Center Freq 5.780000000 (Ref Offset 3.01 dB 0 dB/div Ref 23.01 dB	GHz Cente →→ Trig:F	SENSE:INT r Freq: 5.78000000 GH: Free Run Avg Ho	80MHz An Align Auto ² 51d: 100/100	01:32:00 PMFeb 18 Radio Std: None	Frequency GHz
RL RF 50 Ω AC center Freq 5.780000000 (Ref Offset 3.01 dB Ref 23.01 dB 0 dB/div Ref 23.01 dB Ref 23.01 dB	GHz Cente →→ Trig:F	SENSE:INT r Freq: 5.78000000 GH; Free Run Avg H 1: 30 dB	80MHz An ALIGNAUTO z Joid: 100/100 Mkr3	01:32:00 PMFeb 18 Radio Std: None Radio Device: B' 5.784675 (TS BHZ Bm
RL RF 50 Ω AC center Freq 5.780000000 (Ref Offset 3.01 dB Ref 23.01 dBm 0 dB/div Ref 23.01 dBm Ref 23.01 dBm	GHz Cente →→ Trig:F	SENSE:INT r Freq: 5.78000000 GH: Free Run Avg Ho	80MHz An ALIGNAUTO z Joid: 100/100 Mkr3	01:32:00 PMFeb 18 Radio Std: None Radio Device: B' 5.784675 (TS GHZ Bm Center Fred
RL RF 50 Ω AC center Freq 5.7800000000 6 0 dB/div Ref Offset 3.01 dB 3.01 3.01 3.01 3.09 3.01	GHz Cente →→ Trig:F	SENSE:INT r Freq: 5.78000000 GH; Free Run Avg H : 30 dB	80MHz An ALIGNAUTO z Joid: 100/100 Mkr3	01:32:00 PMFeb 18 Radio Std: None Radio Device: B' 5.784675 (TS GHZ Bm Center Fred
RL RF 50 Ω AC enter Freq 5.780000000 Ref Offset 3.01 dB Ref Offset 3.01 dB 0 dB/div Ref 23.01 dB 80 Ω .0 g	GHz Cente Trig: F #IFGain:Low #Atten	SENSE:INT Ir Freq: 6.78000000 GH: Free Run Avg He State State Stat	ALIGNAUTO ALIGNAUTO Side: 100/100 Mkr3	01:32:00 PMFeb 19 Radio Std: None Radio Device: B 5.784675 (0.64776 d	Center Frequency
RL RF 50 Ω AC enter Freq 5.780000000 Ref Offset 3.01 dB Ref Offset 3.01 dB 0 dB/div Ref 23.01 dB 80 Ω .0 g	GHz Cente Trig: F #IFGain:Low #Atten	SENSE:INT Ir Freq: 6.78000000 GH: Free Run Avg He State State Stat	ALIGNAUTO ALIGNAUTO Side: 100/100 Mkr3	01:32:00 PMFeb 19 Radio Std: None Radio Device: B 5.784675 (0.64776 d	Center Frequency
Bilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC center Freq 5.7800000000 AC AC AC Ref Offset 3.01 dB AC AC AC 0 dB/div Ref Offset 3.01 dB AC AC 3.01 AC AC AC <	GHz Cente Trig: F #IFGain:Low #Atten	SENSE:INT Ir Freq: 6.78000000 GH: Free Run Avg He State State Stat	ALIGNAUTO ALIGNAUTO Side: 100/100 Mkr3	01:32:00 PMFeb 18 Radio Std: None Radio Device: B' 5.784675 (Center Frequency
RL RF S0 Ω AC center Freq 5.780000000 (GHz Cente Trig: F #IFGain:Low #Atten	SENSE:INT Ir Freq: 6.78000000 GH: Free Run Avg He State State Stat	ALIGNAUTO ALIGNAUTO Side: 100/100 Mkr3	01:32:00 PMFeb 19 Radio Std: None Radio Device: B 5.784675 (0.64776 d	Center Frequency
gilent Spectrum Analyzer - Occupied BW RL RF 50.9 AC Center Freq 5.7800000000 Ref Offset 3.01 dB O dB/div Ref Offset 3.01 dB og A A 0 dB/div Ref 23.01 dB A og A A A 0 A A A 0 A A A 0 A A A 0 A A A 0 A A A 0 A A A 0 A A A 0 A A A 0 A A A 0 A A A 0 A A A 0 A A A 0 A A A 0 A A	GHz Cente Trig: F #IFGain:Low #Atten	SENSE:INT Ir Freq: 6.78000000 GH: Free Run Avg He State State Stat	ALIGNAUTO ALIGNAUTO Side: 100/100 Mkr3	11 101:32:00 PMFeb 18 Radio Std: None Radio Device: B 5.784675 C 0.64776 d	Center Frequency
glient Spectrum Analyzer - Occupied BW RL RF 50 Q AC enter Freq 5.7800000000 Ref Offset 3.01 dB Ref 23.01 dB 0 dB/div Ref 23.01 dB 301 301 3.01	GHz Cente Trig: F #IFGain:Low #Atten	SENSE:INT	ALIGNAUTO ALIGNAUTO Side: 100/100 Mkr3	11 01:32:00 PMFeb 16 Radio Std: None Radio Device: B 5.784675 (0.64776 (0.6476 (0.64	Center Frequency
glient Spectrum Analyzer - Occupied BW RL RF 50 Q AC Center Freq 5.780000000 (Ref Offset 3.01 dB Ref Offset 3.01 dB Ref 23.01 dB 0 dB/div Ref 23.01 dB	GHz Cente Trig: F #IFGain:Low #Atten	SENSE:INT	ALIGNAUTO Zold: 100/100 Mkr3	101:32:00 PMFeb 18 Radio Std: None Radio Device: B 5.784675 C 0.64776 d	MHz 3 ms 3 cF Step 3.000000 MHz
glient Spectrum Analyzer - Occupied BW RL RF 50 Q AC Center Freq 5.780000000 (Ref Offset 3.01 dB Ref Offset 3.01 dB Ref 23.01 dB 0 dB/div Ref 23.01 dB	GHz Cente Trig: F #IFGain:Low #Atten	SENSE:INT	ALIGNAUTO Zold: 100/100 Mkr3	11 01:32:00 PMFeb 16 Radio Std: None Radio Device: B 5.784675 (0.64776 (0.6476 (0.64	MHz 3 ms 3 certer Frec 5.78000000 GHz CF Step 3.000000 MHz
glient Spectrum Analyzer - Occupied BW RL RF 50 Q AC Center Freq 5.780000000 (Ref Offset 3.01 dB Ref Offset 3.01 dB Ref 23.01 dB 0 dB/div Ref 23.01 dB	GHz Cente Trig: F #IFGain:Low #Atten	SENSE:INT	ALIGNAUTO Zold: 100/100 Mkr3	101:32:00 PMFeb 18 Radio Std: None Radio Device: B 5.784675 C 0.64776 d	MHz 3 ms Auto MFrequency 5.78000000 GHz 5.78000000 GHz 5.78000000 GHz 5.78000000 MHz 3.000000 MHz Auto Mar
glient Spectrum Analyzer - Occupied BW RL RF 50 Q AC Center Freq 5.780000000 (Ref Offset 3.01 dB Ref Offset 3.01 dB Ref 23.01 dB 0 dB/div Ref 23.01 dB	GHz Cente Trig: F #IFGain:Low #Atten	SENSE:INT	2014: 100/100 Mkr3	101:32:00 PMFeb 18 Radio Std: None Radio Device: B 5.784675 C 0.64776 d	MHz 3 ms 3 cF Step 3.000000 MHz
gilent Spectrum Analyzer - Occupied BW RL RF 50.9 AC Ref Offset 3.01 dB o B/div Ref Offset 3.01 dB 0 dB/div Ref 23.01 dB B 0 301 B B B 0 0 B B B B 0 0 0 B	GHz Cente Trig: F #IFGain:Low #Atten	SENSE:INT r Freq: 6.78000000 GH: ree Run Avg He 3: 30 dB VBW 300 kHz Total Power	21.9 999	11 101:32:00 PMFeb 18 Radio Std: None Radio Device: B 5.784675 C 0.64776 d 0.64776	MHz 3 ms Auto MFrequency 5.78000000 GHz 5.78000000 GHz 5.78000000 GHz 5.78000000 MHz 3.000000 MHz Auto Mar
glient Spectrum Analyzer - Occupied BW RL RF 50.9 AC Center Freq 5.780000000 (Ref Offset 3.01 dB Ref Offset 3.01 dB Ref Offset 3.01 dB 0 dB/div Ref 23.01 dBm	GHz Cente Trig: F #Atten Cente Trig: F #Atten Cente Trig: F #Atten #A	SENSE:INT I I I I I I I I I I I I I I I I I I	21.9 999	101:32:00 PMFeb 18 Radio Std: None Radio Device: B 5.784675 C 0.64776 d 0.64776 d 0.64	MHz 3 ms Auto MFrequency Center Frec 5.780000000 GHz CF Step 3.000000 MHz Auto Mar
glient Spectrum Analyzer - Occupied BW RL RF 50.9 AC center Freq 5.780000000 (Ref Offset 3.01 dB 0 dB/div Ref 23.01 dBm 0 gl	GHz Cente Trig: F #Atten Cente Trig: F #Atten Cente Trig: F #Atten #A	SENSE:INT I I I I I I I I I I I I I I I I I I	21.9 999	101:32:00 PMFeb 18 Radio Std: None Radio Device: B 5.784675 C 0.64776 d 0.64776 d 0.64	MHz 3 ms Auto Frequency Center Frec 5.780000000 GH: CF Step 3.000000 MH: Auto Mar

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	n Analyzer - Occupied BW	/					
RL	RF 50 Ω AC	GHz Cente	SENSE:INT		01:34:36 PM Radio Std:	IFeb 18, 2025 None	Frequency
		Trig: F		ld: 100/100	Radio Devi	ce: BTS	
	Ref Offset 3.03 dB			Mkr3	5.8246	54 GHz	
0 dB/div	Ref 23.03 dBm				2.242	21 dBm	
.og 13.0		2					Center Fre
3.03		multinanotament	haven properties and the stand of the stand				5.820000000 GH
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	d Bush white			with the patrices	Mildelan		
87.0 17.0 <mark>400.044441</mark>	ethological and a second s	• • • • • • • • • • • • • • • • • • •			Millerkholennisty	Martine and	
57.0							
57.0							
enter 5.8			VBM 200 KU-			1 30 MHz	CF Ste
Res BW		#	VBW 300 kHz		oweep	3.333 ms	3.000000 MH <u>Auto</u> Ma
Occup	ied Bandwidth		Total Power	22.9	dBm		<u>nato</u> Ma
	9.4	4012 MHz					Freq Offse
Transm	it Freq Error	-805 Hz	OBW Power	99	.00 %		он
x dB Ba	ndwidth	9.310 MHz	x dB	-6.0	00 dB		
G		-6dB Bandv	vidth NVNT a 575	status 50MHz Ant	2		
jilent Spectru	n Analyzer - Occupied BW	1		50MHz Ant		Ech 10, 2025	
<mark>gilent Spectru</mark> R L	RF 50 Ω AC Pq 5.750000000	GHz Cente	SENSE:INT r Freq: 5.750000000 GHz Free Run Avg Ho	50MHz Ant	01:19:41 PM Radio Std:		Frequency
rilent Spectrum RL RETERTER	RF 50Ω AC 2 q 5.750000000 Ref Offset 3.13 dB	GHz Cente #IFGain:Low #Atter	SENSE:INT	50MHz Ant Align Auto Id: 100/100	01:19:41 PM Radio Std: Radio Devi 5.7546	None ce: BTS 98 GHz	Frequency
gilent Spectrur RL enter Fre 0 dB/div °g	RF 50 Q AC 2q 5.750000000	GHz Cente #IFGain:Low #Atter	SENSE:INT r Freq: 5.750000000 GHz Free Run Avg Ho	50MHz Ant Align Auto Id: 100/100	01:19:41 PM Radio Std: Radio Devi 5.7546	None ce: BTS	Frequency
gilent Spectrum RL enter Fro 0 dB/div 9 3.1	RF 50Ω AC 2 q 5.750000000 Ref Offset 3.13 dB	GHz Cente #IFGain:Low #Atten	SENSE:INT Ir Freq: 5.75000000 GHz Free Run Avg Ho 1: 30 dB	50MHz Ant Align Auto Id: 100/100	01:19:41 PM Radio Std: Radio Devi 5.7546	None ce: BTS 98 GHz	Center Free
o dB/div	RF 50Ω AC 2 q 5.750000000 Ref Offset 3.13 dB	GHz #IFGain:Low #Atter	SENSE:INT Ir Freq: 5.75000000 GHz Free Run Avg Ho 1: 30 dB	50MHz Ant Align Auto Id: 100/100	01:19:41 PM Radio Std: Radio Devi 5.7546	None ce: BTS 98 GHz	Center Free
Content Spectrum RL Content Free Content Free Content Spectrum Content Spectrum	RF 50Ω AC 2 q 5.750000000 Ref Offset 3.13 dB	GHz Cente #IFGain:Low #Atten	SENSE:INT Ir Freq: 5.75000000 GHz Free Run Avg Ho 1: 30 dB	50MHz Ant Align Auto Id: 100/100	01:19:41 PM Radio Std: Radio Devi 5.7546	None ce: BTS 98 GHz	Center Free
Bilent Spectrum RL O dB/div og 3.1 1.13 .69 6.9	RF 50Ω AC 2 q 5.750000000 Ref Offset 3.13 dB	GHz Cente #IFGain:Low #Atten	SENSE:INT Ir Freq: 5.75000000 GHz Free Run Avg Ho 1: 30 dB	50MHz Ant Align Auto Id: 100/100	01:19:41 PM Radio Std: Radio Devi 5.7546	None ce: BTS 98 GHz	Center Fre
ilent Spectrum RL O dB/div og 3.1 1.13 6.9 6.9 6.9 6.9 6.9 6.9 6.9	RF 50Ω AC 2 q 5.750000000 Ref Offset 3.13 dB	GHz Cente #IFGain:Low #Atten	SENSE:INT Ir Freq: 5.75000000 GHz Free Run Avg Ho 1: 30 dB	50MHz Ant Align Auto Id: 100/100	01:19:41 PM Radio Std: Radio Devi 5.7546	None ce: BTS 98 GHz	Center Fre
Bilent Spectrum RL OdB/div og 3.1 1.13 87 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9	RF 50Ω AC 2 q 5.750000000 Ref Offset 3.13 dB	GHz Cente #IFGain:Low #Atten	SENSE:INT Ir Freq: 5.75000000 GHz Free Run Avg Ho 1: 30 dB	50MHz Ant Align Auto Id: 100/100	01:19:41 PM Radio Std: Radio Devi 5.7546	None ce: BTS 98 GHz	Center Fre
Spectrum RL Image: spectrum 0 dB/div og 3.1 3.13 3.13 3.69 9 969 9 9 16.9 16.9 16.9 16.9 16.9	RF 50Ω AC 2 q 5.750000000 Ref Offset 3.13 dB	GHz Cente #IFGain:Low #Atten	SENSE:INT Ir Freq: 5.75000000 GHz Free Run Avg Ho 1: 30 dB	50MHz Ant Align Auto Id: 100/100	01:19:41 PM Radio Std: Radio Devi 5.7546	None ce: BTS 98 GHz	Center Free
gilent Spectrum RL O dB/div	RF 50 Ω AC 2q 5.750000000 Ref Offset 3.13 dB Ref 23.13 dBm	GHz Cente #IFGain:Low #Atten	SENSE:INT Ir Freq: 5.75000000 GHz Free Run Avg Ho 1: 30 dB	50MHz Ant Align Auto Id: 100/100	01:19:41PM Radio Std: Radio Devi 5.7546 1.744	None ce: BTS 98 GHz I3 dBm	Center Fre 5.75000000 GH
gient Spectrum RL 0 dB/div 0 g 3.1 3.13 3.69 16.7	RF 50 Ω AC 2q 5.750000000 3 Ref Offset 3.13 dB Ref 23.13 dBm	GHz Cente Trig: F #IFGain:Low #Atten	SENSE:INT Ir Freq: 5.75000000 GHz Free Run Avg Ho 1: 30 dB	50MHz Ant Align Auto Id: 100/100	01:19:41PM Radio Std: 5.7546 1.744	None ce: BTS 98 GHz	Frequency Center Fre 5.75000000 GH
glient Spectrum RL enter Fre 31 31 31 69 </td <td>RF 50 Q AC 2q 5.750000000 AC AC Ref 0.750000000 AC AC AC Ref 0.13 dB Ref AC <t< td=""><td>GHz Cente HIFGain:Low #Atten</td><td>SENSE:INT</td><td>ALIGNAUTO Id: 100/100 Mkr3</td><td>01:19:41PM Radio Std: 5.7546 1.744</td><td>None ce: BTS 98 GHz 13 dBm</td><td>Center Free 5.75000000 GH CF Stej</td></t<></td>	RF 50 Q AC 2q 5.750000000 AC AC Ref 0.750000000 AC AC AC Ref 0.13 dB Ref AC AC <t< td=""><td>GHz Cente HIFGain:Low #Atten</td><td>SENSE:INT</td><td>ALIGNAUTO Id: 100/100 Mkr3</td><td>01:19:41PM Radio Std: 5.7546 1.744</td><td>None ce: BTS 98 GHz 13 dBm</td><td>Center Free 5.75000000 GH CF Stej</td></t<>	GHz Cente HIFGain:Low #Atten	SENSE:INT	ALIGNAUTO Id: 100/100 Mkr3	01:19:41PM Radio Std: 5.7546 1.744	None ce: BTS 98 GHz 13 dBm	Center Free 5.75000000 GH CF Stej
glient Spectrum RL enter Fre 31 31 31 69 </td <td>RF 50 Q AC 2q 5.750000000 AC AC 2q 5.750000000 AC AC AC Ref 0.13 dB AC AC</td> <td>GHz Cente Trig: F #Atten</td> <td>SENSE:INT r Freq: 5.75000000 GHz ree Run Avg Ho a: 30 dB Avg Ho Avg Ho A</td> <td>ALIGNAUTO Id: 100/100 Mkr3</td> <td>DI:19:41PM Radio Std: 5.7546 1.744</td> <td>None ce: BTS 98 GHz 13 dBm</td> <td>Center Free 5.75000000 GH CF Stej 3.00000 MH <u>Auto</u>Ma</td>	RF 50 Q AC 2q 5.750000000 AC AC 2q 5.750000000 AC AC AC Ref 0.13 dB AC	GHz Cente Trig: F #Atten	SENSE:INT r Freq: 5.75000000 GHz ree Run Avg Ho a: 30 dB Avg Ho Avg Ho A	ALIGNAUTO Id: 100/100 Mkr3	DI:19:41PM Radio Std: 5.7546 1.744	None ce: BTS 98 GHz 13 dBm	Center Free 5.75000000 GH CF Stej 3.00000 MH <u>Auto</u> Ma
21ent Spectru RL 0 dB/div 0 g 13.1 3.13 3.69 3.	Ref Offset 3.13 dB Ref 23.13 dBm 5 GHz 100 kHz ied Bandwidth 9.3	GHz Cente Trig: F #IFGain:Low #Atten 400 400 400 400 400 400 400 40	SENSE:INT IF Freq: 6.75000000 GHz Free Run Avg Ho 30 dB VBW 300 kHz Total Power	23.4	OI:19:41PM Radio Std: 5.7546 1.744	None ce: BTS 98 GHz 13 dBm	Center Free 5.75000000 GH 3.00000 MH <u>Auto</u> Ma Freq Offse
21ent Spectru RL 2enter Fre 0 dB/div 29 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	Ref 50 R AC 2q 5.750000000 0 Ref 013.13 dB dB Ref 23.13 dBm 0	GHz Cente Trig: F #Atten Cente Trig: F #Atten #A	SENSE:INT r Freq: 5.75000000 GHz ree Run Avg Ho 2: 30 dB 2: 30 dB 2: 40 dB 2: 40 dB 2: 40 dB 2: 40 dB 2: 40 dB 2: 40 dB 4: 40	23.4	DI:10:41PM Radio Devi 5.7546 1.744 Spar Sweep :: dBm .00 %	None ce: BTS 98 GHz 13 dBm	Center Free 5.75000000 GH CF Stej 3.00000 MH <u>Auto</u> Ma
RL enter Fre og og 313 343 369 <	Ref Offset 3.13 dB Ref 23.13 dBm 5 GHz 100 kHz ied Bandwidth 9.3	GHz Cente Trig: F #IFGain:Low #Atten 400 400 400 400 400 400 400 40	SENSE:INT IF Freq: 6.75000000 GHz Free Run Avg Ho 30 dB VBW 300 kHz Total Power	23.4	OI:19:41PM Radio Std: 5.7546 1.744	None ce: BTS 98 GHz 13 dBm	Center Free 5.75000000 GH 3.00000 MH <u>Auto</u> Ma Freq Offse
glent Spectrum RL enter Fre 0 dB/div	Ref 50 R AC 2q 5.750000000 0 Ref 013 dB dB Ref 23.13 dB 0	GHz Cente Trig: F #Atten Cente Trig: F #Atten #A	SENSE:INT r Freq: 5.75000000 GHz ree Run Avg Ho 2: 30 dB 2: 30 dB 2: 40 dB 2: 40 dB 2: 40 dB 2: 40 dB 2: 40 dB 2: 40 dB 4: 40	23.4	DI:10:41PM Radio Devi 5.7546 1.744 Spar Sweep :: dBm .00 %	None ce: BTS 98 GHz 13 dBm	Center Free 5.75000000 GH 3.00000 MH <u>Auto</u> Ma Freq Offse

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Transmit	: Freq Error ndwidth	5.497 kHz	OBW Power	99.00 %		0 H
		3737 MHz	Total Power	23.9 dBm	2	Freq Offse
enter 5.82 Res BW 1	00 kHz		VBW 300 kHz	Sweep	an 30 MHz 3.333 ms	CF Stej 3.000000 MH Auto Ma
7.0					20 F/U - F	
17.0 4 4, 14, 44, 14, 14, 14, 14, 14, 14, 14, 1					and Allowed a March 1	
27.0 37.0	And the second of the second o	M		and the stand and the state of	ndella e e	
7.0						
3.0			winerena and an and a second			Center Fre 5.820000000 GH
0 dB/div og	Ref Offset 3.03 dB Ref 23.03 dBm				74 dBm	
	•	Trig:F	ree Run Avg Hold : 30 dB		vice: BTS	
RL	Analyzer Occupied BW RF 50 Ω AC q 5.820000000 I	GHz Center	SENSE:INT	Radio St	PMFeb 18, 2025 d: None	Frequency
		-	vidth NVNT a 5820	0MHz Ant2		
G				STATUS		
x dB Bar	iawiath	9.445 MHz	x dB	-6.00 dB		
	•	-15.773 kHz	OBW Power	99.00 %		0 н
Occupie	ed Bandwidth 9.3	887 MHz	Total Power	23.8 dBm		FreqOffse
Res BW 1	00 kHz		VBW 300 kHz	Sweep	3.333 ms	CF Stej 3.000000 MH Auto Ma
enter 5.78	GHz			Spa	an 30 MHz	
5.9						
5.9 5.9	www.www.www.www.	dwithing		Martin Manual Analy and a start of the go	Harry Mappiles and	
6.9						
93		- Offeren have been been	rinendiningan garan			5.780000000 GH
0 dB/div og 3.1	Ref 23.07 dBm			0.993	59 dBm	Center Fre
	Ref Offset 3.07 dB			Mkr3 5.784		
		#IFGain:Low #Atten	: 30 dB	Radio De	vice: BTS	

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20M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
		5750		18.83	0.5	Pass
		5780	Ant1	18.84	0.5	Pass
	_	5820		18.71	0.5	Pass
NVNT	а	5750		18.89	0.5	Pass
		5780	Ant2	18.86	0.5	Pass
		5820		18.70	0.5	Pass

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		Test Graphs		
	-6dB Bandv	vidth NVNT a 5750	OMHz Ant1	
gilent Spectrum Analyzer - Occupied BW				or l
RL RF 50Ω AC Center Freq 5.750000000 C	GHz Cente	SENSE:INT r Freq: 5.750000000 GHz ree Run Avg Hold	ALIGNAUTO 02:13:03 PMFeb 18, 20 Radio Std: None	Frequency
A		: 30 dB	Radio Device: BTS	
Ref Offset 3.01 dB			Mkr3 5.759423 GF -1.7679 dB	
10 dB/div Ref 23.01 dBm			-1.7073 GB	
13.0 3.01			3	Center Free 5.75000000 GHz
-6.99	Manufacture and a second s	ne la constanta france the adverte	the part and a part of the second	5.75000000 GH2
-17.0			<u> </u>	_
-27.0				
37.0 Home Contractor			WWWwwwwww	M
-47.0				
-67.0				_
Center 5.75 GHz			Span 30 Mł	12
#Res BW 100 kHz	#	VBW 300 kHz	Sweep 3.333 n	
Occupied Bandwidth		Total Power	23.1 dBm	Auto Man
•	709 MHz			Eres Offer
Transmit Freg Error	8.740 kHz	OBW Power	99.00 %	Freq Offset 0 Hz
x dB Bandwidth	18.83 MHz	x dB	-6.00 dB	
	10.00 1012	X GD	0.00 48	
SG			STATUS	
ISG	-6dB Bandv	vidth NVNT a 5780		
Agilent Spectrum Analyzer - Occupied BW			DMHz Ant1	
Agilent Spectrum Analyzer - Occupied BW	GHz Cente	SENSE:INT	DMHz Ant1 ALIGNAUTO 02:15:39 PMFeb 18, 20 Radio Std: None	25 Frequency
Agilent Spectrum Analyzer - Occupied BW R R RF 50 Q AC Center Freq 5.780000000 C	GHz Cente →→ Trig:F	SENSE:INT	ALIGN AUTO 02:15:39 PMFeb 18, 20 Radio Std: None 1: 100/100 Radio Device: BTS	Frequency
Aglient Spectrum Analyzer - Occupied BW R R RF 50 Q AC Center Freq 5.780000000 C Agric Action Act	GHz Cente →→ Trig:F	SENSE:INT r Freq: 5.780000000 GHz ree Run Avg Hold	DMHz Ant1 ALIGNAUTO [02:15:39 PMFeb 18, 20 Radio Std: None Radio Device: BTS Mkr3 5.789401 GH	Frequency
Agilent Spectrum Analyzer - Occupied BW R RL RF 50 9 AC Center Freq 5.7800000000 Ref Offset 3.01 dB 10 dB/div Ref 23.01 dBm Log	GHz Cente →→ Trig:F	SENSE:INT r Freq: 5.780000000 GHz ree Run Avg Hold	DMHz Ant1 ALIGN AUTO 02:15:39 PMFeb 18, 20 Radio Std: None Radio Device: BTS	Frequency
Agilent Spectrum Analyzer - Occupied BW R RL RF 50.2 AC Center Freq 5.7800000000 Ref Offset 3.01 dB 10 dB/div Ref 23.01 dBm Log	GHz Cente Trig:F IFGain:Low #Atten	SENSE:INT r Freq: 5.78000000 GHz ree Run Avg Hold : 30 dB	DMHz Ant1 ALIGNAUTO 102:15:39 PMFeb 18, 20 Radio Std: None Radio Device: BTS Mkr3 5.789401 GH -0.79621 dB	Center Frequency
Agilent Spectrum Analyzer - Occupied BW M RL RF 50 Q AC Center Freq 5.780000000 C A Ref Offset 3.01 dB Ref 23.01 dB 10 dB/div Ref 23.01 dB 13.0 3.01	GHz Cente Trig:F IFGain:Low #Atten	SENSE:INT r Freq: 5.780000000 GHz ree Run Avg Hold	DMHz Ant1 ALIGNAUTO 102:15:39 PMFeb 18, 20 Radio Std: None Radio Device: BTS Mkr3 5.789401 GH -0.79621 dB	Center Frequency
Agilent Spectrum Analyzer - Occupied BW R RL RF 50 Q AC Center Freq 5.7800000000 Ref Offset 3.01 dB Ref 23.01 dBm Log 13.0 -6.99 -17.0	GHz Cente Trig:F IFGain:Low #Atten	SENSE:INT r Freq: 5.78000000 GHz ree Run Avg Hold : 30 dB	DMHz Ant1 ALIGNAUTO 102:15:39 PMFeb 18, 20 Radio Std: None Radio Device: BTS Mkr3 5.789401 GH -0.79621 dB	Center Frequency
Agilent Spectrum Analyzer - Occupied BW	GHz Cente Trig:F IFGain:Low #Atten	SENSE:INT r Freq: 5.78000000 GHz ree Run Avg Hold : 30 dB	DMHz Ant1 ALIGNAUTO 102:15:39 PMFeb 18, 20 Radio Std: None Radio Device: BTS Mkr3 5.789401 GH -0.79621 dB	Center Frequency
Agilent Spectrum Analyzer - Occupied BW R RL RF 50 Q AC Center Freq 5.7800000000 Ref Offset 3.01 dB Ref 23.01 dBm Log 13.0 -6.99 -17.0	GHz Cente Trig:F IFGain:Low #Atten	SENSE:INT r Freq: 5.78000000 GHz ree Run Avg Hold : 30 dB	DMHz Ant1 ALIGNAUTO IQ2:15:39 PMFeb 18,20 Radio Std: None Radio Device: BTS Mkr3 5.789401 GH -0.79621 dB	Frequency
Agilent Spectrum Analyzer - Occupied BW X RL RF 50 9 AC Center Freq 5.7800000000 A Ref Offset 3.01 dB Cog 130 301 -6.99 -17.0 -7.0 -7.0 -7.0	GHz Cente Trig:F IFGain:Low #Atten	SENSE:INT r Freq: 5.78000000 GHz ree Run Avg Hold : 30 dB	DMHz Ant1 ALIGNAUTO IQ2:15:39 PMFeb 18,20 Radio Std: None Radio Device: BTS Mkr3 5.789401 GH -0.79621 dB	Center Frequency
Agilent Spectrum Analyzer - Occupied BW A RL RF 50 Q AC Center Freq 5.7800000000 (Ref Offset 3.01 dB 10 dB/div Ref 23.01 dBm Log 13.0 3.0 -27.0 -27.0 -47.0	GHz Cente Trig:F IFGain:Low #Atten	SENSE:INT r Freq: 5.78000000 GHz ree Run Avg Hold : 30 dB	DMHz Ant1 ALIGNAUTO IQ2:15:39 PMFeb 18,20 Radio Std: None Radio Device: BTS Mkr3 5.789401 GH -0.79621 dB	Center Frequency
Center Freq 5.780000000 C	SHz Cente Trig: F #Atten	SENSE:INT	DMHz Ant1 ALIGNAUTO	Center Frequency
Agilent Spectrum Analyzer - Occupied BW R RL RF 50 Q AC Center Freq 5.780000000 C Ref Offset 3.01 dB 10 dB/div Ref 23.01 dBm 	SHz Cente Trig: F #Atten	SENSE:INT r Freq: 5.78000000 GHz ree Run Avg Hold : 30 dB	DMHz Ant1 ALIGNAUTO ICC::15:39 PMFeb 18, 20 Radio Std: None Radio Device: BTS Mkr3 5.789401 GF -0.79621 dB 3	Center Frequency Center Frequency S.780000000 GHz S.78000000 GHz S.78000000 GHz S.78000000 GHz
Agilent Spectrum Analyzer - Occupied BW Agilent Spectrum Analyzer - Occupied BW Iso 2 AC Enter Freq 5.78000000000 A Ref Offset 3.01 dB Ref 23.01 dB 22 301 42 42 42 42 42 42 42 42 42 42	SHz Cente Trig: F #FGain:Low #Atten	SENSE:INT	DMHz Ant1 ALIGNAUTO	Center Frequency
Agilent Spectrum Analyzer - Occupied BW Agilent Spectrum Analyzer - Occupied BW Agilent Spectrum Analyzer - Occupied BW Iso 9 AC Center Freq 5.78000000000 Ref Offset 3.01 dB Ref Offset 3.01 dB Center 5.78 GHz #Res BW 100 kHz	SHz Cente Trig: F #FGain:Low #Atten	SENSE:INT r Freq: 5.78000000 GHz ree Run Avg Hold : 30 dB	DMHz Ant1 ALIGNAUTO IQ2:15:39 PMFeb 18,20 Radio Std: None Radio Device: BTS Mkr3 5.789401 GH -0.79621 dB 3 3 Span 30 MH Sweep 3.333 n	Center Frequency Center Frequency S.780000000 GHz S.78000000 GHz S.78000000 GHz S.78000000 GHz
Agilent Spectrum Analyzer - Occupied BW Agilent Spectrum Analyzer - Occupied BW Agilent Spectrum Analyzer - Occupied BW Iso 9 AC Center Freq 5.78000000000 Ref Offset 3.01 dB Ref Offset 3.01 dB Center 5.78 GHz #Res BW 100 kHz	SHz Cente Trig: F #FGain:Low #Atten	SENSE:INT r Freq: 5.78000000 GHz ree Run Avg Hold : 30 dB	DMHz Ant1 ALIGNAUTO IQ2:15:39 PMFeb 18,20 Radio Std: None Radio Device: BTS Mkr3 5.789401 GH -0.79621 dB 3 3 Span 30 MH Sweep 3.333 n	Center Frequency Center Frequency 5.780000000 GHz 5.78000000 GHz 5.78000000 GHz 5.78000000 GHz 5.78000000 GHz 5.78000000 GHz 5.78000000 GHz
Aglent Spectrum Analyzer - Occupied BW R RL RF 50 2 AC Center Freq 5.780000000 Ref Offset 3.01 dB Ref Offset 3.01 dB 10 dB/div Ref 23.01 dB 13 0 14 0 70 0 70 0 77 0 70 0 77 0	3Hz Cente Trig: F #Atten #Atten #Atten #731 MHz	SENSE:INT r Freq: 5.78000000 GHz ree Run Avg Hold 30 dB VBW 300 kHz Total Power	DMHz Ant1 ALIGNAUTO ID2:15:39 PMFeb 18, 20 Radio Std: None Radio Device: BTS Mkr3 5.789401 GF -0.79621 dB 3 Span 30 MH Sweep 3.333 n 23.5 dBm	Center Frequency
Agilent Spectrum Analyzer - Occupied BW R RL RF 50 9 AC Center Freq 5.780000000 C Ref Offset 3.01 dB 10 dB/div Ref 23.01 dBm 	3Hz Cente Trig: F #FGain:Low #Atten #Atten #Atten # 731 MHz -19.468 kHz	SENSE:INT r Freq: 5.78000000 GHz ree Run Avg Hold : 30 dB VBW 300 kHz Total Power OBW Power	DMHz Ant1 ALIGNAUTO IO2:15:39 PMFeb 19,20 Radio Std: None Radio Device: BTS Mkr3 5.789401 GF -0.79621 dB 3 Span 30 MH Sweep 3.333 n 23.5 dBm 99.00 %	Center Frequency
Aglent Spectrum Analyzer - Occupied BW R RL RF 50 9 AC Center Freq 5.780000000 C Ref Offset 3.01 dB 10 dB/div Ref 23.01 dBm 130 130 130 130 130 130 147 157 170 170 170 170 170 170 170 17	3Hz Cente Trig: F #FGain:Low #Atten #Atten #Atten # 731 MHz -19.468 kHz	SENSE:INT r Freq: 5.78000000 GHz ree Run Avg Hold : 30 dB VBW 300 kHz Total Power OBW Power	DMHz Ant1 ALIGNAUTO IO2:15:39 PMFeb 19,20 Radio Std: None Radio Device: BTS Mkr3 5.789401 GF -0.79621 dB 3 Span 30 MH Sweep 3.333 n 23.5 dBm 99.00 %	Center Frequency

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ilopt Spoatnum d		W.				
RL RF	l yzer - Occupied B \ 50 Ω AC		SENSE:INT		02:18:25 PM Feb 18, 2025	Eroquerer
enter Freq 5	.820000000	Trig: F	r Freq: 5.820000000 GHz Free Run Avg Hol I: 30 dB	d: 100/100	Radio Std: None Radio Device: BTS	Frequency
	ef Offset 3.03 dE ef 23.03 dBm			Mkr3 8	5.829336 GHz -1.3078 dBm	
3 .0						
.03	8 ²	L. M. L. K. L. M. Market			3	Center Free 5.82000000 GH
.97	NAMA AND A	dutin de la construction de la cons	and the second states and states and states and states	andrewine Manistration (1974)		3.82000000 GH
7.0						
7.0	- Multin -					
	W H				The the the the the the	
7.0						
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7.0						
enter 5.82 G					Span 30 MHz	CF Ste
Res BW 100	кНz	#	VBW 300 kHz	S	weep 3.333 ms	3.000000 MH
Occupied	Bandwidt	h	Total Power	24.0 d	lBm	<u>Auto</u> Ma
	18	8.691 MHz				Freq Offse
Transmit Fi		-19.061 kHz	OBW Power	99.0	0%	
x dB Bandv		-19.001 KH2 18.71 MHz	x dB	-6.00	- /-	
				0.00		
		-6dB Bandv	vidth NVNT a 575	STATUS		<u> </u>
ilent Spectrum Ana R L RF	50 Ω AC	W	SENSE:INT	OMHz Ant2	02:02:49 PMFeb 18, 2025	Frequency
ilent Spectrum Ana R L RF	50 Ω AC	GHz Cente	SENSE:INT	OMHz Ant2		Frequency
ilent Spectrum Ana RL RF enter Freq 5	50 Ω AC	W GHz #IFGain:Low 3	SENSE:INT r Freq: 5.750000000 GHz ree Run Avg Hol	OMHz Ant2	02:02:49 PMFeb 18, 2025 Radio Std: None	Frequency
ilent Spectrum Ana RL RF enter Freq 5 dB/div R 0 dB/div R	50 Ω AC 5.750000000 ef Offset 3.13 dE	W GHz #IFGain:Low 3	SENSE:INT r Freq: 5.750000000 GHz ree Run Avg Hol	OMHz Ant2	02:02:49 PMFeb 18, 2025 Radio Std: None Radio Device: BTS 5.75947 GHz	
ilent Spectrum Ana RL RF enter Freq 5 D dB/div R 31	50 Ω AC 5.750000000 tef Offset 3.13 dB tef 23.13 dBm A2	W GHz #IFGain:Low 3	SENSE:INT F Freq: 5.75000000 GHz ree Run Avg Hol : 30 dB	OMHz Ant2	02:02:49 PMFeb 18, 2025 Radio Std: None Radio Device: BTS 5.75947 GHz	Center Fre
Ilent Spectrum Ana RL RF enter Freq 5 d dB/div R 9 31 13	50 Ω AC 5.750000000 tef Offset 3.13 dB tef 23.13 dBm A2	W GHz #IFGain:Low 3	SENSE:INT r Freq: 5.750000000 GHz ree Run Avg Hol	OMHz Ant2	02:02:49 PMFeb 18, 2025 Radio Std: None Radio Device: BTS 5.75947 GHz -2.1084 dBm	Center Fre
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Ient Spectrum Ana RL RF enter Freq 5 g g g g g g g g g g g g g	50 Q AC 5.750000000 tef Offset 3.13 dB tef 23.13 dBm 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4	M GHz Cente #IFGain:Low #Atter 3 1 4 4 5 7 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT r Freq: 5.75000000 GHz ree Run Avg Hol : 30 dB VBW 300 kHz VBW 300 kHz Total Power OBW Power	0MHz Ant2	102:02:49 PMFeb 18, 2025 adio Std: None Radio Device: BTS 5.75947 GHz -2.1084 dBm 3 Span 30 MHz Sweep 3.333 ms IBm	Center Fre 5.75000000 GH 3.00000 MH <u>Auto</u> Ma Freq Offse

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RL RF 50 Ω AC enter Freq 5.780000000	N			
	GHz Cente Trig: F	SENSE:INT r Freq: 5.780000000 GHz iree Run Avg Hold	ALIGN AUTO 02:05:41 PMFe Radio Std: No I: 100/100 Radio Device	one Frequency
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dB/div Ref 23.07 dBm	1		0.72016	
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	ality of the second states and a second s	washina and appressing a second	ana	5.78000000 GH
93				
5.9 Manhabara			**************************************	ehlipten, wa
.9				
.9				
i.9				
enter 5.78 GHz				30 MHz CF Ster
Res BW 100 kHz	#	VBW 300 kHz	Sweep 3.	333 ms 3.000000 MH
Occupied Bandwidt	h	Total Power	24.5 dBm	<u>Auto</u> Ma
18	8.687 MHz			Freq Offse
Transmit Freq Error	2.731 kHz	OBW Power	99.00 %	он
x dB Bandwidth	18.86 MHz	x dB	-6.00 dB	
		SENSE:INT	OMHz Ant2	eb 18, 2025
RL RF 50Ω AC	GHz Cente →→ Trig: F	SENSE:INT r Freq: 5.820000000 GHz ree Run Avg Hold : 30 dB	ALIGN AUTO 02:08:58 PM Fe Radio Std: No	one Frequency
RL RF S0.2 AC enter Freq 5.820000000 REf Offset 3.03 dB Ref Offset 3.03 dB	GHz Cente #IFGain:Low #Atten	r Freq: 5.820000000 GHz ree Run Avg Hold	ALIGN AUTO 02:08:58 PM Fe Radio Std: Ni I: 100/100	ene Frequency EBTS 5 GHZ
RL RF 50Ω AC enter Freq 5.820000000 Ref Offset 3.03 df	GHz Cente #IFGain:Low #Atten	r Freq: 5.820000000 GHz ree Run Avg Hold	ALIGNAUTO 02:08:58 PMF Radio Std: N Radio Device Mkr3 5.82937	Frequency EBTS 5 GHz 3 dBm
RL RF 50 Ω AC enter Freq 5.820000000 Ref 00000000 Ref 000000000000000000000000000000000000	GHz #IFGain:Low GHZ Trig: #Atten	r Freq: 5.82000000 GHz ree Run Avg Hold : 30 dB	ALIGNAUTO 02:08:58 PMF Radio Std: N Radio Device Mkr3 5.82937	S GHZ B dBm Center Free
RL RF 50 Q AC enter Freq 5.820000000 Ref Offset 3.03 dB dB/div Ref 23.03 dBm 29 0 0 0 0 0 0 0 0 0 0 0 0 0	GHz Cente #IFGain:Low #Atten	r Freq: 5.82000000 GHz ree Run Avg Hold : 30 dB	ALIGNAUTO 02:08:58 PMF Radio Std: N Radio Device Mkr3 5.82937	S GHZ B dBm Center Free
RL RF 50 Q AC enter Freq 5.820000000 Ref Offset 3.03 db dB/div Ref 23.03 dbm 29 0 0 37 7.0	GHz #IFGain:Low GHZ Trig: #Atten	r Freq: 5.82000000 GHz ree Run Avg Hold : 30 dB	ALIGNAUTO 02:08:58 PMF Radio Std: N Radio Device Mkr3 5.82937	ene Frequency EBTS 5 GHZ
RL RF 50 Q AC enter Freq 5.820000000 Ref Offset 3.03 db Ref 23.03 dbm 2 2 3 7 0 0 0 0 0 0 0 0 0 0 0 0 0	GHz #IFGain:Low GHZ Trig: #Atten	r Freq: 5.82000000 GHz ree Run Avg Hold : 30 dB	ALIGNAUTO 02:08:58 PMF Radio Std: N Radio Device Mkr3 5.82937	S GHZ B dBm Center Free
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RL RF 50 Q AC Inter Freq 5.820000000 Ref 0ffset 3.03 dB Ref 23.03 dBm g	GHz #IFGain:Low Autor GHz Trig: F #Atter Autor GHZ Trig: F #Atter Autor Aut	VBW 300 kHz Total Power OBW Power	ALIGN AUTO 02:08:58 PMFe Radio Std: N Radio Device Mkr3 5.82937 2.1733 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Some Frequency Frequency Frequency Frequency Center Fre 5.820000000 GH CF Ste 3.000000 MH Auto Ma Freq Offse

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Occupied Channel Bandwidth

10M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
		5750		9.39
		5780	Ant1	9.373
NVNT		5820		9.448
	а	5750		9.428
		5780	Ant2	9.444
		5820		9.461

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		Test Graphs				
	OBW	NVNT a 5750MHz	z Ant1			
g <mark>ilent Spectrum Analyzer - Occupied BW</mark> RL RF 50 Ω AC		SENSE:INT	ALIGN AUTO	01:29:16 PM Feb 18, 2025		
enter Freq 5.750000000	Trig: F	r Freq: 5.750000000 GHz	d: 100/100	Radio Device: BTS	Frequency	
Ref Offset 3.01 dB 0 dB/div Ref 23.01 dBm			Mkr1	5.747276 GHz 9.1259 dBm		
og 3.0 .01	1	what man and a second			Center Fred 5.75000000 GHz	
.99						
7.0 7.0 1.0	Harris Real	<u> </u>	nimentalla Urahav	Mushul management		
7.0				and a standard of a standard		
				0		
enter 5.75 GHz Res BW 200 kHz	#	VBW 620 kHz		Span 30 MHz Sweep 1.333 ms	CF Step 3.000000 MH Auto Mar	
Occupied Bandwidth		Total Power	22.1	dBm	Nato War	
	8901 MHz	001110		00.00	Freq Offse 0 Hi	
Transmit Freq Error x dB Bandwidth	-8.729 kHz 10.25 MHz	OBW Power x dB		0.00 % 00 dB	0 1	
G			STATUS	3		
G	OBW	NVNT a 5780MHz				
jilent Spectrum Analyzer - Occupied BW			z Ant1			
ilent Spectrum Analyzer - Occupied BW RL RF 50 Q AC enter Freq 5.780000000 (GHz Cente →→→ Trig:F	SENSE:INT		01:31:51 PMFeb 18, 2025 Radio Std: None Radio Device: BTS	Frequency	
glent Spectrum Analyzer - Occupied BW RL RF 50.9. AC enter Freq 5.780000000 (6 Ref Offset 3.01 dB 6 0 dB/div Ref 23.01 dB	GHz Cente #IFGain:Low #Atter	SENSE:INT r Freq: 5.780000000 GHz iree Run Avg Hold	z Ant1 ALIGNAUTO	01:31:51 PMFeb 18, 2025 Radio Std: None Radio Device: BTS	Frequency	
RL RF 50 Ω AC enter Freq 5.7800000000 6 Ref Offset 3.01 dB Ref 23.01 dBm 3.0	GHz Cente HIFGain:Low #Atter	sense:INT r Freq: 5.78000000 GHz ree Run Avg Hold : 30 dB	z Ant1 Align Auto	01:31:51 PMFeb 18, 2025 Radio Std: None Radio Device: BTS 5.781335 GHz	Center Free	
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RL RF 50 Ω AC enter Freq 5.7800000000	GHz Cente Trig: F #IFGain:Low #Atten	sense:INT r Freq: 5.78000000 GHz ree Run Avg Hold : 30 dB	z Ant1 ALIGN AUTO d: 100/100 Mkr1	01:31:51 PMFeb 18, 2025 Radio Std: None Radio Device: BTS 5.781335 GHz 8.9756 dBm	Center Free	
RL RF 50 \overline Act enter Freq 5.780000000 (Galaria Ref Offset 3.01 dB 0 dB/div Ref 23.01 dBm 99 70 70	GHz Cente Trig: F #IFGain:Low #Atten	sense:INT r Freq: 5.78000000 GHz ree Run Avg Hold : 30 dB	z Ant1 ALIGN AUTO d: 100/100 Mkr1	01:31:51 PMFeb 18, 2025 Radio Std: None Radio Device: BTS 5.781335 GHz	Center Free	
Ilent Spectrum Analyzer - Occupied BW RL RF 50.9 AC enter Freq 5.780000000 (AC AC AC 0 dB/div Ref Offset 3.01 dB G AC AC 0 g	GHz Cente Trig: F #IFGain:Low #Atten	sense:INT r Freq: 5.78000000 GHz ree Run Avg Hold : 30 dB	z Ant1 ALIGN AUTO d: 100/100 Mkr1	01:31:51 PMFeb 18, 2025 Radio Std: None Radio Device: BTS 5.781335 GHz 8.9756 dBm	Frequency Center Frec 5.78000000 GHz	
ilent Spectrum Analyzer - Occupied BW Rt RF 50.0 AC enter Freq 5.780000000 (Ref Offset 3.01 dB G G G 0 dB/div Ref Offset 3.01 dB G G G 3.0	GHz Cente Trig: F #IFGain:Low #Atten	sense:INT r Freq: 5.78000000 GHz ree Run Avg Hold : 30 dB	z Ant1 ALIGN AUTO d: 100/100 Mkr1	01:31:51 PMFeb 18, 2025 Radio Std: None Radio Device: BTS 5.781335 GHz 8.9756 dBm	Center Free	
RL RF S0 2 AC Ref Offset 3.01 dB offset 3.01 dB <th cols<="" td=""><td>GHz Cente Trig: F #IFGain:Low #Atten</td><td>SENSE:INT r Freq: 5.78000000 GHz ree Run Avg Hole : 30 dB </td><td>z Ant1 ALIGN AUTO d: 100/100 Mkr1</td><td>01:31:51 PMFeb 18, 2025 Radio Std: None Radio Device: BTS 5.781335 GHz 8.9756 dBm</td><td>Center Fred 5.78000000 GH: 5.78000000 GH: 5.7800000 GH: CF Step 3.00000 MH:</td></th>	<td>GHz Cente Trig: F #IFGain:Low #Atten</td> <td>SENSE:INT r Freq: 5.78000000 GHz ree Run Avg Hole : 30 dB </td> <td>z Ant1 ALIGN AUTO d: 100/100 Mkr1</td> <td>01:31:51 PMFeb 18, 2025 Radio Std: None Radio Device: BTS 5.781335 GHz 8.9756 dBm</td> <td>Center Fred 5.78000000 GH: 5.78000000 GH: 5.7800000 GH: CF Step 3.00000 MH:</td>	GHz Cente Trig: F #IFGain:Low #Atten	SENSE:INT r Freq: 5.78000000 GHz ree Run Avg Hole : 30 dB 	z Ant1 ALIGN AUTO d: 100/100 Mkr1	01:31:51 PMFeb 18, 2025 Radio Std: None Radio Device: BTS 5.781335 GHz 8.9756 dBm	Center Fred 5.78000000 GH: 5.78000000 GH: 5.7800000 GH: CF Step 3.00000 MH:
Ilent Spectrum Analyzer - Occupied BW REF 50 Q AC enter Freq 5.780000000 (Ref Offset 3.01 dB o dB/div Ref 23.01 dB o dB/div Ref 23.01 dB o dB/div Ref 23.01 dB og	GHz Cente Trig: F #IFGain:Low #Atten	SENSE:INT F Freq: 5.78000000 GHz ree Run Avg Hold 30 dB	2 Ant1 ALIGNAUTO d: 100/100 Mkr1	01:31:51 PMFeb 18, 2025 Radio Std: None Radio Device: BTS 5.781335 GHz 8.9756 dBm	Center Frec 5.780000000 GH; 5.78000000 GH; 5.7800000 MH; 3.000000 MH; <u>Auto</u> Mar	
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	u <mark>m Analyzer - Occupied B</mark> RF 50 Ω AC	w	SEN	SE:INT		ALIGN AUTO	01:34:27	PM Feb 18, 2025	_
	req 5.82000000	GHz #IFGain:Low		eq: 5.820000000 Run Av	GHz	: 100/100	Radio St		Frequency
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	9.4	4478 MI	ΗZ						Freq Offse
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x dB B	andwidth	10.02 N	1Hz	x dB		-26.	00 dB		
G			OBW NV	/NT a 5750	MHz	status Ant2	s		
ilent Spectro R L	um Analyzer - Occupied BV RF 50 Q AC	W	SEN	SE:INT			01:19:32	PMFeb 18, 2025 d' None	Frequency
ilent Spectro R L		W	SEN	SE:INT eq: 5.750000000 Run Av	GHz	Ant2 ALIGN AUTO : 100/100	01:19:32 Radio St Radio De	d: None vice: BTS	Frequency
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RL Image: Content of the second	Ref Offset 3.13 dBm	W GHz #IFGain:Low 3 1	SEN Center Fr Trig: Free #Atten: 30	se:INT eq: 5.750000000 Run Av dB	I GHz rg Hold:	Ant2 Align Auto i 100/100 Mkr1	01:19:32 Radio St 5.751 9.90	d: None Nvice: BTS 899 GHz 589 dBm	Center Fre 5.750000000 GH
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Billent Spectric RL eenter Fr 0 dB/div	Ref Offset 3.13 dB Ref 23.13 dBm	W GHz #IFGain:Low B 1 ↓ ↓ ↓ ↓ ↓ ↓	SEN Center Fr Trig: Free #Atten: 30 #Units free #Atten: 30 #Winits free #Winits free #VB	SE:INT eq: 5.75000000 Run Av dB	I GHz g Hold;	Ant2 ALIGNAUTO LION/100 Mkr1 23.5	01:19:32 Radio St Radio De 5.751 9.96	d: None svice: BTS 899 GHz 589 dBm	Center Fre 5.750000000 GH 3.000000 MH <u>Auto</u> Ma
Coccup Coccup Coccup Coccup Coccup	Ref Offset 3.13 dB Ref 23.13 dBm 	M GHz #IFGain:Low B 1 ////////////////////////////////	SEN Center Fr Trig: Free #Atten: 30 #Atten: 30 #WB #VB	SE:INT eq: 5.75000000 Run Av dB 1 //////////////////////////////////	IGHz ggHold;	Ant2 ALIGNAUTO LIGNAUTO Mkr1 ALIGNAUTO ALIGNAUTO ALIGNA	01:19:32 Radio St 8adio De 5.751 9.90	d: None svice: BTS 899 GHz 589 dBm	Center Fre 5.75000000 GH 3.000000 MH Auto Ma
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ilent Spectra RL enter Fr od dB/div og 3.1 .13 .87 6.9 6.9 6.9 6.9 6.9 6.9 6.9 enter 5. Res BW Occup	Ref Offset 3.13 dB Ref 23.13 dBm 	W GHz #IFGain:Low 3 1 4 4 4 4 4 4 4 4 4 4 4 4 4	SEN Center Fr Trig: Free #Atten: 30 #Atten: 30 #WB #VB	SEINT eq: 5.75000000 Run Av dB	IGHz ggHold;	Ant2 ALIGNAUTO LIGNAUTO Mkr1 ALIGNAUTO ALIGNAUTO ALIGNA	01:139:32 Radio St Radio De 5.751 9.96 S.751 9.96 S.751 9.96 S.751 9.96 S.751 9.96 S.751 9.96 Sp Sweep 5 dBm 9.00 %	d: None svice: BTS 899 GHz 589 dBm	Center Fre 5.75000000 GH 3.000000 MH Auto Ma

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	OBW	/ NVNT a 5780MH	Iz Ant2	
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enter Freq 5.78000000	0 GHz Cen	sense:INT ter Freq: 5.780000000 GHz Free Run Avg Ho en: 40 dB	ALIGN AUTO 01:22:04 PMFel z Radio Std: No bld: 100/100 Radio Device	ne Frequency
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.og 13.1		≬ 1		Center Free
3.07	Notworkhow	work-anti-there were an and		5.780000000 GH
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9.92 9.99 9.99 9.99	water		who water which the stand of the second stand	
16.9			Contraction (AMA	Y WWWWWWWW
56.9				
66.9				
Center 5.78 GHz Res BW 200 kHz		#VBW 620 kHz	Span 3 Sweep 1.3	
Occupied Bandwid	th	Total Power	23.6 dBm	<u>Auto</u> Mar
	 .4442 MHz			
Transmit Freq Error	-12.398 kHz	OBW Power	99.00 %	Freq Offse
x dB Bandwidth	-12.398 KHZ 10.45 MHz	x dB	-26.00 dB	
			20100 48	
G			STATUS	
36	OBW	/ NVNT a 5820MH		
z <mark>ilent Spectrum Analyzer - Occupied RL RF 50Ω AC</mark>	BW	(NVNT a 5820MH	ALIGNAUTO 01:24:35 PMFe	
z <mark>ilent Spectrum Analyzer - Occupied RL RF 50Ω AC</mark>	BW 0 GHz Cen Trig	SENSE:INT	ALIGNAUTO 01:24:35 PMFe	ne Frequency
gilent Spectrum Analyzer - Occupied RL RF 50Ω AC enter Freq 5.82000000 Ref Offset 3.03 (BW O GHz Cen #IFGain:Low #Atto	SENSE:INT ter Freq: 5.820000000 GHz Free Run Avg Ho	IZ Ant2	BTS GHz
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Bilent Spectrum Analyzer – Occupied Rt PF S0 & AC Ref Offset 3.03 dB 0 dB/div Ref Offset 3.03 dB 9 g	BW O GHz #IFGain:Low Cent Trig #Att dB m th .4607 MHz 2.369 kHz	SENSE.INT Free Run Avg He an: 30 dB WWW Mathematical WWW Mathematical WWW Mathematical WWW Mathematical WWW Mathematical WWW Mathematical Mathemati	Iz Ant2	ID MHz IO MAX IO MAX
glient Spectrum Analyzer - Occupied RL RF 50 & AC center Freq 5.82000000 Ref Offset 3.03 dB 0 dB/div Ref Offset 3.03 dB 0 dB/div Ref Offset 3.03 dB 0 30 30 303 30 304 4 305 4 307 4 308 4 309 4 301 4 302 4 303 4 304 4 305 4 306 4 307 4 308 4 309 4 301 4 302 4 303 4 304 4 305 4 306 4 307 4 308 4 309 4 300 4 301 <	BW O GHz #IFGain:Low Cent Trig #Att dB m th .4607 MHz 2.369 kHz	SENSE.INT Free Run Avg He an: 30 dB WWW Mathematical WWW Mathematical WWW Mathematical WWW Mathematical WWW Mathematical WWW Mathematical Mathemati	Iz Ant2	ID MHz IO MHz IS TS Center Free 5.820000000 GH CF Step 3.000000 MH Auto Ma Freq Offsee

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20M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
		5750		18.661
		5780	Ant1	18.722
	_	5820		18.761
NVNT	а	5750		18.692
		5780	Ant2	18.734
		5820		18.730

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		Test Graphs		
	OBW	NVNT a 5750MHz	z Ant1	
gilent Spectrum Analyzer - Occupied BW				
RL RF 50Ω AC Center Freq 5.750000000 G	Hz Cente	SENSE:INT r Freq: 5.750000000 GHz ree Run Avg Hold	ALIGN AUTO 02:12:54 PM Feb Radio Std: No d: 100/100	
#		: 30 dB	Radio Device:	BTS
Ref Offset 3.01 dB			Mkr1 5.748887 8.2215	
0 dB/div Ref 23.01 dBm		1	0.2210	
13.0	Alenaughter and and a state	Marce all when and makely work	Laund Mar 1	5.75000000 GH
5.99	A	and I advanting as here	and the state of the second at	5.75000000 GH
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27.0			Wwwww	Mulin
37.0 424 44 44 44 44 44 44 44 44 44 44 44 44				
57.0				
57.0				
enter 5.75 GHz			Span 3	
Res BW 200 kHz	#	VBW 620 kHz	Sweep 1.3	3.000000 MH
Occupied Bandwidth		Total Power	23.0 dBm	<u>Auto</u> Mar
18.	661 MHz			Freq Offse
Transmit Freq Error	-4.761 kHz	OBW Power	99.00 %	он
x dB Bandwidth	20.22 MHz	x dB	-26.00 dB	
5G			STATUS	
22	OBW	NVNT a 5780MHz		
	OBW	NVNT a 5780MHz		
gilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC	Hz Cente	SENSE:INT	Z Ant1 ALIGNAUTO 02:15:30 PMFeb Radio Std: No	
gilent Spectrum Analyzer - Occupied BW RL RF 50 Q AC ienter Freq 5.780000000 C	GHz Cente	SENSE:INT	2 Ant1 ALIGNAUTO 02:15:30 PMFeb	ne Frequency
Bilent Spectrum Analyzer - Occupied BW RL RF 50 R AC Center Freq 5.780000000 G # Ref Offset 3.01 dB Ref 23.01 dBm	GHz Cente ← Trig:F	SENSE:INT r Freq: 5.780000000 GHz ree Run Avg Hol	2 Ant1 ALIGNAUTO [02:15:30 PMFeb Radio Std: No d: 100/100	ne Frequency BTS GHZ
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splient Spectrum Analyzer - Occupied BW RL RF 50 Ω AC enter Freq 5.7800000000 # 0 dB/div Ref Offset 3.01 dB # 0 dB/div Ref 23.01 dB 1 0 g	SHZ Cente IFGain:Low #Atten	SENSE:INT FFreq: 5.78000000 GHz ree Run Avg Hol: : 30 dB	z Ant1 ALIGNAUTO 02:15:30 PMFed Radio Std: No Radio Device: Mkr1 5.782154 7.2691	BTS GHZ dBm 5.780000000 GH
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Ref Offset 3.01 dB Ref 23.01 dBm Ref 23.01 dBm R	Hz Cente Trig: F Gain:Low #Atten Annual and a second se	SENSE:INT F Freq: 5.78000000 GHz ree Run Avg Hol: 30 dB 1 4 4 4 4 4 4 4 4 4 4 4 4 4	z Ant1 ALIGNAUTO D2:15:30 PMFet Radio Std: No Radio Device: Mkr1 5.782154 7.2691 Mkr1 5.782154 7.2691 Span 3 Sweep 1.3 23.2 dBm	ne Frequency BTS GHz GHz Center Frequency 0 MHz CF Step 33 ms 3.00000 MH Auto Mar Freq Offse
glient Spectrum Analyzer - Occupied BW Rt RF 50 0 AC Genter Freq 5.780000000 C # Ref Offset 3.01 dB Ref Offset 3.01 dB # 0 dB/div Ref Offset 3.01 dB # 0 div Ref Offset 3.01 dB <	Hz Cente Trig: F Trig: T #Atten ************************************	SENSE:INT FFreq: 5.78000000 GHz ree Run Avg Hol: 30 dB 1 1 1 1 1 1 1 1 1 1 1 1 1	z Ant1 ALISNAUTO d: 100/100 Radio Device: Mkr1 5.782154 7.2691 Mkr1 5.782154 7.2691 Mkr1 5.782154 7.2691 Mkr1 5.782154 7.2691 3.2691	ne Frequency BTS GHz GHz Center Frequency Conter Frequency 5.780000000 GHz Multiple CF Step 3.000000 MHz
glent Spectrum Analyzer - Occupied BW Rt RF 50 @ AC enter Freq 5.780000000 G # Ref Offset 3.01 dB @ 0 dB/div Ref Offset 3.01 dB 90 AC # 91 Part of the set of the s	Hz Cente Trig: F Trig: T #Atten ************************************	SENSE:INT FFreq: 5.78000000 GHz ree Run Avg Hol: 30 dB 1 1 1 1 1 1 1 1 1 1 1 1 1	z Ant1 ALISNAUTO d: 100/100 Radio Device: Mkr1 5.782154 7.2691 Mkr1 5.782154 7.2691 Mkr1 5.782154 7.2691 Mkr1 5.782154 7.2691 3.2691	ne Frequency BTS GHz GHz Center Frequency 5.780000000 GH Mail Auto O MHz 33 ms CF Step 3.000000 MH Auto Freq Offse

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	nalyzer - Occupied B					
	5.820000000	GHz Cent	ter Freg: 5.820000000 GHz	ALIGN AUTO did: 100/100	02:18:16 PMFeb 18, 202 Radio Std: None Radio Device: BTS	Frequency
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Res BW 20	UKHZ		#VBW 020 KHZ		Sweep 1.333 m	3.000000 MH
Occupie	d Bandwidt	h	Total Power	24.1	dBm	<u>Auto</u> Ma
	18	8.761 MHz				Freq Offse
Transmit	Freq Error	19.402 kHz	OBW Power	99	.00 %	0 H
x dB Band	-	19.91 MHz	x dB		00 dB	
				STATUS		
		OBW	/ NVNT a 5750MH			
	<mark>nalyzer - Occupied B</mark> λ RF 50 Ω AC	W			02:02:40 PMFeb 18, 202	
RL R	nalyzer - Occupied Β ε 50 Ω Ας 5.7500000000	w GHz Cent ∓∓ Trig:	SENSE:INT ter Freq: 5.750000000 GHz Free Run Avg Ho	Iz Ant2	02:02:40 PMFeb 18, 202 Radio Std: None	5 Frequency
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RL R enter Freq 0 dB/div 0 og 3 3.1 1.13 1.87 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 0 6.9 0 6.9 0 0 Occupied 0 Transmit 0	F 0 SO Q AC 5.7500000000 Ref Offset 3.13 dB Ref 23.13 dBm U U U U U U U U U U U U U	M GHz Cent Trig: #IFGain:Low #Atte 3 1 Cent Trig: #Atte 3 1 Cent Trig: #Atte 3 1 Cent Trig: #Atte 3 1 Cent Trig: #Atte 3 1 Cent Trig: #Atte 3 1 Cent Trig: #Atte 3 1 Cent Ce	SENSE INT Free Run Avg He an: 30 dB	Iz Ant2 ALIGNAUTO ALIGNAUTO Mkr1 Add average Add ave	D2:02:40 PMFeb 18, 202 Radio Std: None Radio Device: BTS 5.748728 GH 8.5553 dBr 9.00 %	Z Center Fre 5.75000000 GH CF Ste 3.00000 MH Auto Ma

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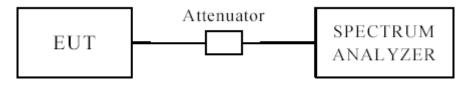
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RL RF 50 Ω AC Center Freq 5.780000000 Ε <th< th=""><th>GHz Cente Trig: F</th><th>r Freq: 5.780000000 GHz</th><th>F Id: 100/100</th><th>02:05:32 PMFeb 18, 2025 Radio Std: None Radio Device: BTS</th><th>Frequency</th></th<>	GHz Cente Trig: F	r Freq: 5.780000000 GHz	F Id: 100/100	02:05:32 PMFeb 18, 2025 Radio Std: None Radio Device: BTS	Frequency
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SG			status		
gilent Spectrum Analyzer - Occupied B	N	NVNT a 5820MH	z Ant2	102-08-49 PMEeb 18, 2025	[
gilent Spectrum Analyzer - Occupied B RL RF 50 Q AC	GHz Cente	SENSE:INT r Freq: 5.820000000 GHz	z Ant2 ALIGN AUTO Id: 100/100	02:08:49 PMFeb 18, 2025 Radio Std: None Radio Device: BTS	Frequency
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9.0 Peak Transmit Power Measurement

9.1 Test Setup



9.2 Limits of Peak Transmit Power Measurement

Operation Band	EUT Category	Limit
	Outdoor Access Point	1 Watt (30 dBm) \leq (Max. e.i.r.p 125mW (21 dBm) at any elevation angle above 30
		degrees as measured from the horizon)
U-NII-1	Fixed point-to-point Access Point	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Mobile and Portable client device	250mW (24 dBm)
U-NII-2A		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	\checkmark	1 Watt (30 dBm)

9.3 Test Procedure

The RF power output was measured with a Spectrum analyzer connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the average power was measured

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9.4Test Results

10M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor	Total Power	Limit (dBm)	Verdict
		(1411 12)			(dB)	(dBm)	(abiii)	
		5750		11.32	5.24	16.56	30	Pass
		5780	Ant1	10.78	5.24	16.02	30	Pass
	-	5820		12.04	5.24	17.28	30	Pass
NVNT	а	5750		12.02	5.24	17.26	30	Pass
		5780	Ant2	12.22	5.24	17.46	30	Pass
		5820		12.55	5.24	17.79	30	Pass

EUT	Agricultural unmarmed drone				Model			Field Ranger X50		
Mode		10M B	Bandwidt	h	Test Voltage			DC76.5V		
Temperature	24 deg. C,				Humidity			56% RH		
Frequency (M	Frequency (MHz)		Power Ant 2 P		ower	ower Total Max Power Out		Power Limit	Pass/ Fail	
		dBm	mW	dBm	mW	-MIMO (de	3m)	(dBm)		
5750		16.56	45.29	17.26	53.21	19.93		30	Pass	
5780		16.02 39.99 17.46		55.72	19.81		30	Pass		
5820		17.28 53.46		17.79	60.12	20.55		30	Pass	

Note: 1. The result basic equation calculation as follow:

Average Power Output = AV Power Reading + Cable loss + Attenuator

2. The worse case was recorded

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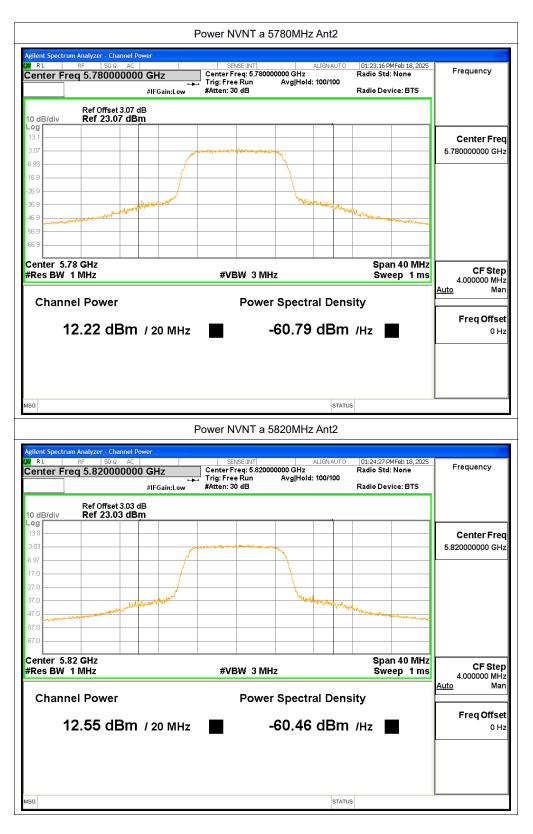




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20M Bandwidth

Condition	Mode	Frequency	Antenna	Conducted	Duty	Total	Limit	Verdict
		(MHz)		Power (dBm)	Factor	Power	(dBm)	
					(dB)	(dBm)		
		5750		11.53	5.24	16.77	30	Pass
		5780	Ant1	11.78	5.24	17.02	30	Pass
NVNT	а	5820		12.35	5.24	17.59	30	Pass
	a	5750		13.1	5.24	18.34	30	Pass
		5780	Ant2	12.87	5.24	18.11	30	Pass
		5820		13.1	5.24	18.34	30	Pass

EUT	Agricultural unmarmed drone				Model			Field Ranger X50	
Mode		10M E	Bandwidt	h	Test Voltage			DC76.5V	
Temperature	24 deg. C,				Humidity			56% RH	
Frequency (M	Hz)			Ant 2 Power		Total Max. Power Output		Power Limit	Pass/ Fail
		dBm	mW	dBm	mW	-MIMO (de	3m)	(dBm)	
5750		16.77	47.53	18.34	68.23	20.64		30	Pass
5780		17.02 50.35 18.1		18.11	64.71	20.61		30	Pass
5820		17.59 57.41		18.34	68.23	20.99		30	Pass

Note: 1. The result basic equation calculation as follow:

Power Output = Power Reading + Cable loss + Attenuator

2. The worse case was recorded

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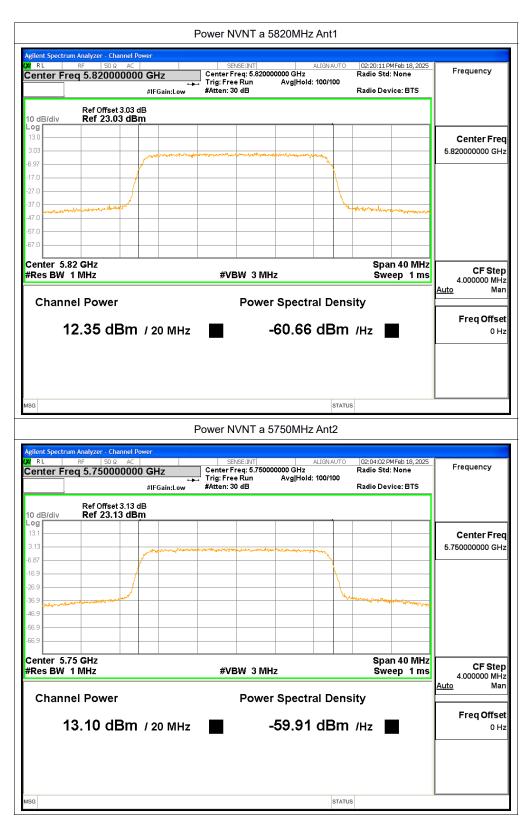


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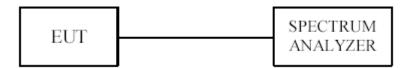
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10. Power Spectral Density Measurement

10.1 Test Setup



10.2 Limits of Power Spectral Density Measurement

Operation Band	EUT Category	Limit
	Outdoor Access Point	
	Fixed point-to-point Access Point	17dBm/MHz
U-NII-1	Indoor Access Point	
	Mobile and Portable client device	11dBm/MHz
U-NII-2A		11dBm/MHz
U-NII-2C		11dBm/MHz
U-NII-3	\checkmark	30dBm/500kHz

10.3 Test Procedure

- 1. The EUT was directly connected to the spectrum analyzer
- 2. Set the RBW = 510kHz
- 3. Set the VBW =1.5MHz
- 4. Set the span to encompass the entire emissions bandwidth (EBW) of the signal
- 5. Detector = RMS
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.

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10.4Test Result

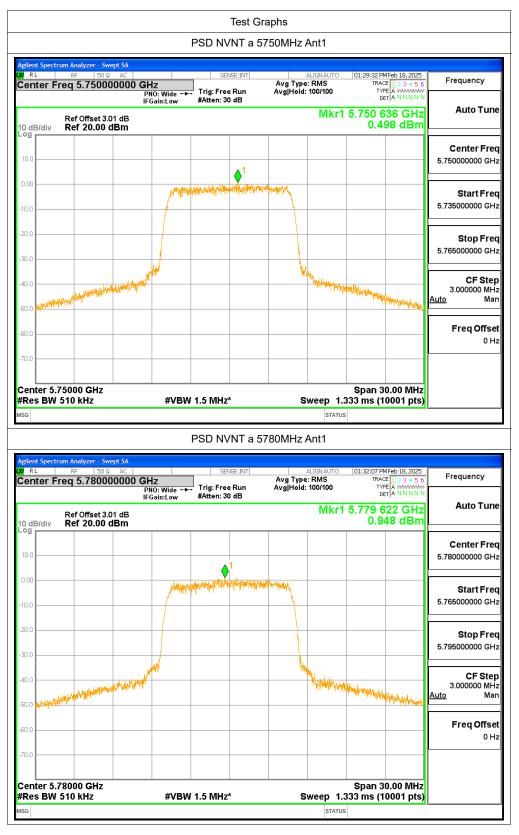
10M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
		5750		0.5	5.24	5.74	30	Pass
		5780	Ant1	0.95	5.24	6.19	30	Pass
	-	5820	-	1.16	5.24	6.4	30	Pass
NVNT	а	5750		2.17	5.24	7.41	30	Pass
		5780	Ant2	1.95	5.46	7.41	30	Pass
		5820		1.78	5.24	7.02	30	Pass

EUT	Agricultural unmarmed drone			Model			Field Ranger X50		
Mode		10M Bandwidt	h	Test Voltage			DC76.5V		
Temperature		24 deg. C,		Humidity			56% RH		
Frequency (M	A Frequency (MHz)		Ant 2 PS		Total Max Power PSI -MIMO		PSD Limit (dBm/500kHz)	Pass/ Fail	
		dBm/510kHz	dBm/5	TUKHZ	(dBm/510k⊦	Iz)			
5750		5.74	7.4	11	9.67		30	Pass	
5780		6.19	7.41		9.85		30	Pass	
5820		6.4	7.0)2	9.73		30	Pass	

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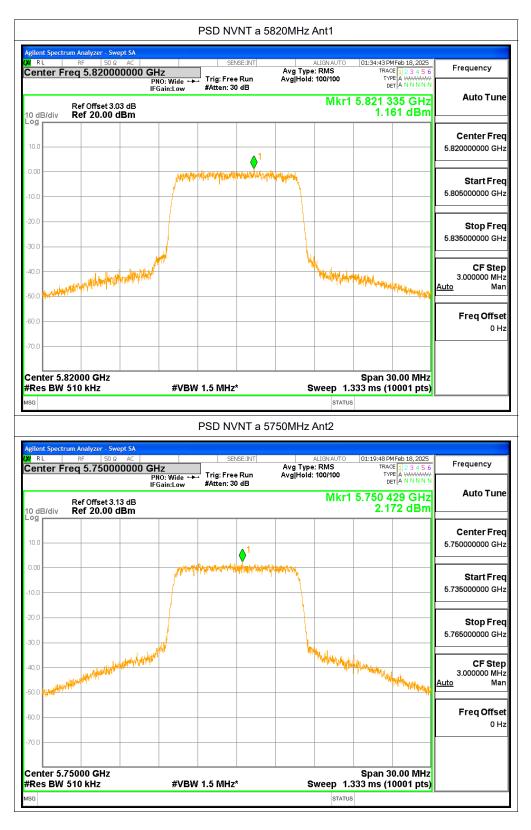


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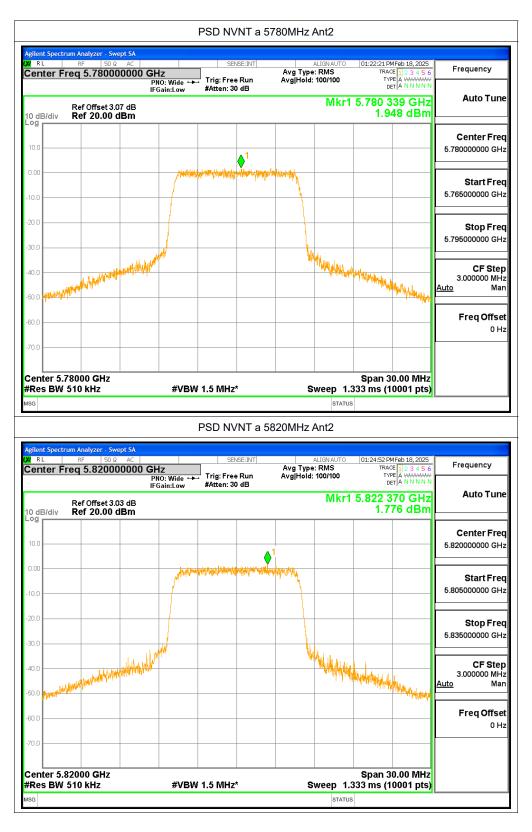




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20M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor	Total PSD	Limit (dBm)	Verdict
					(dB)	(dBm)		
		5750		-1.34	5.24	3.9	30	Pass
		5780	Ant1	-0.55	5.46	4.91	30	Pass
		5820		0.12	5.46	5.58	30	Pass
NVNT	а	5750		-0.13	5.46	5.33	30	Pass
		5780	Ant2	-0.04	5.46	5.42	30	Pass
		5820		-0.41	5.46	5.05	30	Pass

EUT	Agricultural unmarmed drone			Model			Field Ranger X50		
Mode		20M Bandwidt	h	Test Voltage			DC76.5V		
Temperature		24 deg. C,			umidity		56% RH		
Frequency (M	Ant 1 F		Ant 2 PSD		Total Max. Power PSD		PSD Limit	Pass/ Fail	
	112)	dBm/510kHz	dBm/5	10kHz	-MIMO (dBm/510kHz)		(dBm/500kHz)	1 433/1 41	
5750		3.9	5.3	33	7.68		30	Pass	
5780		4.91	5.4	12	8.18		30	Pass	
5820		5.58	5.0)5	8.33		30	Pass	

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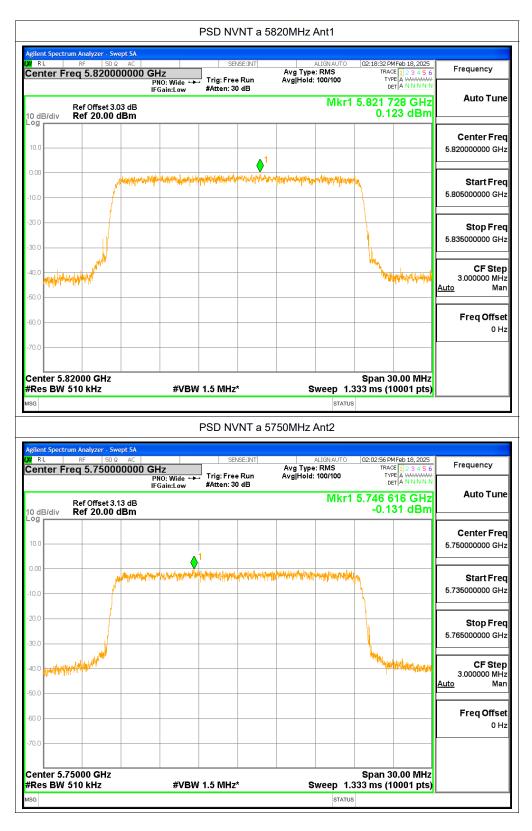


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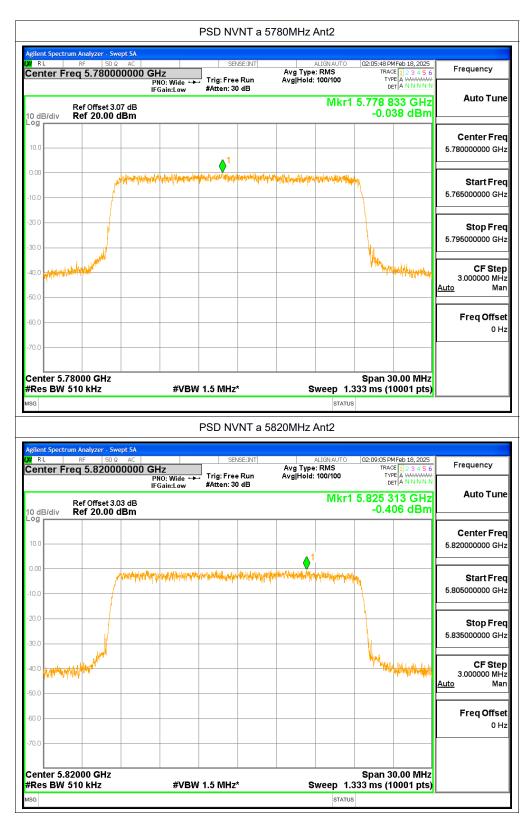


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11.0 Frequency Stability

11.1 Limits of Frequency Stability Measurement

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.02\%$ of the operating frequency over a temperature variation of -30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees

11.2 Test Procedure

1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.

- 2. Turn the EUT on and couple its output to a spectrum analyzer.
- 3. Turn the EUT off and set the chamber to the highest temperature specified.

4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.

5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.

6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

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11.3 Test Result Middle Channel: 5780MHz

Voltage vs. Frequency Stability

Measurement Frequency (MHz)
5780.0367
5780.0378
5780.0364
0.0378
6.54

Rated Temperature: 20°C

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)
-30	5780.0376
-20	5780.0358
-10	5780.0386
0	5780.0354
10	5780.0363
20	5780.0379
30	5780.0384
40	5780.0376
50	5780.0367
Max. Deviation (MHz)	0.0386
Max. Deviation (ppm)	6.68

Rated working voltage: 76.5V

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12.0 Antenna Requirement

12.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

12.2 Antenna Connected construction

Integral antennas used. The gain of the antennas is 1.87dBi maximum for each one. (Get from the antenna specification provided the applicant)

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13.0 FCC ID Label

FCC ID: 2BM3J-X50

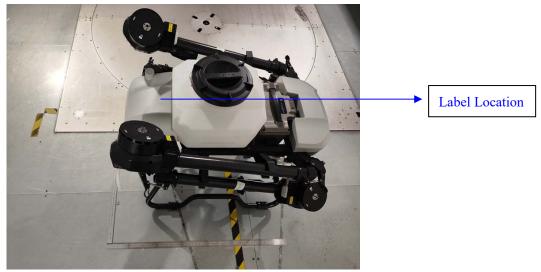
This device complies with Part 15 of the FCC Rules. Operation is subject to the

following two conditions: (1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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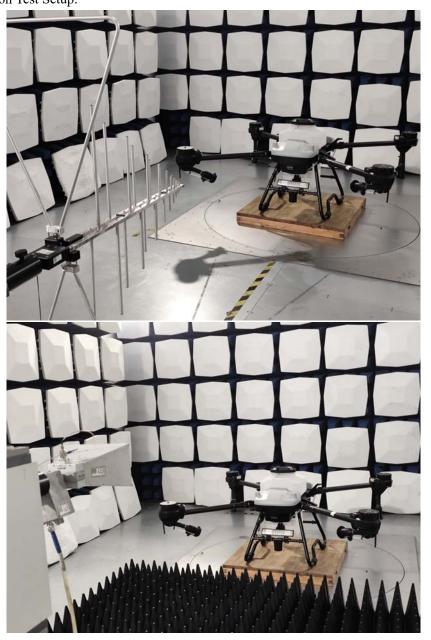
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14.0 Photo of testing

Conducted Emission Test Setup: N/A Radiated Emission Test Setup:



Photos of EUT

Please see test report TW2501162-01E

--End of the report--

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