



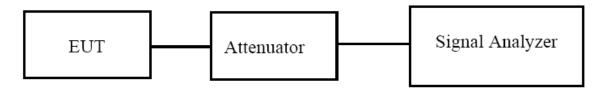


		PS	SD NVNT	ax40 5795	5MHz		
Keysight Spectrum An		. 1 .	opuer or -	-		07-20-54 201	
RL RF Center Freq 5.	50 Ω AC 795000000	GHz PNO: Fast ↔ IFGain:Low	SENSE:PULS Trig: Free Run #Atten: 30 dB	#Avg Type		07:39:56 PM Apr 16 TRACE 1 2 TYPE A W DET A N	3456 Frequency
0 dB/div Ref	ffset 4.39 dB 20.00 dBm	I Gam.LUW			Mkr1	5.811 218 (-13.329 d	GHZ Auto Tu IBm
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20.0		and the second second	Martin Martin	AN A CHARGE AND	a she was a she was the she	ht	Stop Fr
							5.825000000 G
30.0							
40.0							CF St 6.000000 M
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70.0							
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enter 5.79500						Span 60.00	MHz ^{Log} !
Res BW 510 k		#VBW	1.5 MHz*		weep 1:6	33 ms (10001	ntel
sg 🛈 Points chan	ged: all traces of	leared					pts,
sg 🔱 Points chan	ged; all traces o				STATUS		ptsj
			SD NVNT	ax80 5775	STATUS		
Keysight Spectrum An	alyzer - Swept SA 50 Ω AC	P	SD NVNT	ax80 5775	5MHz	07:46:00 PM Apr 16	.2024
Keysight Spectrum An	alyzer - Swept SA 50 Ω AC	CHz PNO: Fast ↔	SENSE:PULS	ax80 5775		07:46:00 PM Apr16	,2024 Frequency
Keysight Spectrum An RL RF Center Freq 5.	alyzer - Swept SA 50 Ω AC 775000000 ffset 4.38 dB	P: GHz	SENSE:PULS	ax80 5775	5MHz 100/100	07:46:00 PM Apr16 TRACE TYPE A W DET A N 5.812 608 (,2024 34.5 Frequency NNNN SHZ Auto Tu
Keysight Spectrum An RL RF Center Freq 5.	alyzer - Swept SA 50 Ω AC 7775000000	CHz PNO: Fast ↔	SENSE:PULS	ax80 5775	5MHz 100/100	07:46:00 PM Apr 16 TRACE 12 TYPE A M DET A N	,2024 34.5 Frequency NNNN SHZ Auto Tu
Keysight Spectrum An RL RF Center Freq 5. Ref 0 0 dB/div Ref 1	alyzer - Swept SA 50 Ω AC 775000000 ffset 4.38 dB	CHz PNO: Fast ↔	SENSE:PULS	ax80 5775	5MHz 100/100	07:46:00 PM Apr16 TRACE TYPE A W DET A N 5.812 608 (, 2024 Frequency NNNN GHz Bm Center Fr
Reysight Spectrum An RL RF Center Freq 5. Ref 0 0 dB/div Ref 1	alyzer - Swept SA 50 Ω AC 775000000 ffset 4.38 dB	CHz PNO: Fast ↔	SENSE:PULS	ax80 5775	5MHz 100/100	07:46:00 PM Apr16 TRACE TYPE A W DET A N 5.812 608 (,2024 34.5 Frequency NNNN SHZ BM
Keysight Spectrum An RL RF Center Freq 5. Ref 0 0 dB/div Ref 1 0	alyzer - Swept SA 50 Ω AC 775000000 ffset 4.38 dB	CHz PNO: Fast ↔	SENSE:PULS	ax80 5775	5MHz 100/100	07:46:00 PM Apr16 TRACE TYPE A W DET A N 5.812 608 (, 2024 3 4 5 0 NNNN 3 HZ Bm Center Fr 5.775000000 G
Keysight Spectrum An RL RF Center Freq 5. O dB/div Ref 7 0.00	alyzer - Swept SA 50 Ω AC 775000000 ffset 4.38 dB	CHz PNO: Fast ↔	SENSE:PULS	ax80 5775	5MHz 100/100	07:46:00 PM Apr16 TRACE TYPE A W DET A N 5.812 608 (, 2024 Frequency NNNN GHz Bm Center Fr
Keysight Spectrum An RL RF Center Freq 5. Ref 0 0 dB/div Ref 1 0 0 10 0 10 0	alyzer - Swept SA 50 Ω AC 775000000 ffset 4.38 dB	CHz PNO: Fast ↔	SENSE:PULS	ax80 5775	5MHz 100/100	07:46:00 PM Apr16 TRACE TYPE A W DET A N 5.812 608 (, 2024 3 4 5 0 SHz Bm Center Fr 5.775000000 G Start Fr
Keysight Spectrum An RL RF Center Freq 5. Ref 0 0 dB/div Ref 1 0 0 10 0 10 0	alyzer - Swept SA 50 Ω AC 775000000 ffset 4.38 dB	CHz PNO: Fast ↔	SENSE:PULS	ax80 5775	5MHz 100/100	07:46:00 PM Apr16 TRACE TYPE A W DET A N 5.812 608 (, 2024 Frequency Auto Tu Bm Center Fr 5.775000000 G Start Fr 5.715000000 G Stop Fr
RL RF Center Freq 5. Ref 0	alyzer - Swept SA 50 Ω AC 775000000 ffset 4.38 dB	CHz PNO: Fast ↔	SENSE:PULS	ax80 5775	5MHz 100/100	07:46:00 PM Apr16 TRACE TYPE A W DET A N 5.812 608 (, 2024 Frequency Auto Tu Bm Center Fr 5.775000000 G Start Fr 5.715000000 G
Keysight Spectrum An RL RF Center Freq 5.	alyzer - Swept SA 50 Ω AC 775000000 ffset 4.38 dB	CHz PNO: Fast ↔	SENSE:PULS	ax80 5775	5MHz 100/100	07:46:00 PM Apr16 TRACE TYPE A W DET A N 5.812 608 (, 2024 Frequency Auto Tu Bm Center Fr 5.77500000 G Start Fr 5.71500000 G Stop Fr 5.83500000 G
Keysight Spectrum An RL RF Center Freq 5.	alyzer - Swept SA 50 Ω AC 775000000 ffset 4.38 dB	CHz PNO: Fast ↔	SENSE:PULS	ax80 5775	5MHz 100/100	07:46:00 PM Apr16 TRACE TYPE A W DET A N 5.812 608 (, 2024 Frequency Auto Tu Bm Center Fr 5.775000000 G Start Fr 5.715000000 G Stop Fr 5.835000000 G
Keysight Spectrum An RL RF Center Freq 5.	alyzer - Swept SA 50 Q AC 7750000000 Iffset 4.38 dB 20.00 dBm	CHz PNO: Fast ↔	SENSE:PULS	ax80 5775	5MHz 100/100	07:46:00 PM April 1 TRACE 2 TYPE A W DET A W 5.812 608 (-16.356 c	, 2024 Frequency Auto Tu Bm Center Fr 5.77500000 G Start Fr 5.71500000 G Stop Fr 5.83500000 G CF St 12.00000 M Auto M
Keysight Spectrum An Ref C O dB/div Ref C O dB/div Ref 3	alyzer - Swept SA 50 Q AC 7750000000 Iffset 4.38 dB 20.00 dBm	CHz PNO: Fast ↔	SENSE:PULS	ax80 5775	5MHz 100/100	07:46:00 PM April 1 TRACE 2 TYPE A W DET A W 5.812 608 (-16.356 c	, 2024 Frequency Auto Tu Bm Center Fr 5.77500000 G Start Fr 5.71500000 G Stop Fr 5.83500000 G CF St 12.00000 M Auto M
Keysight Spectrum An R RL RF Center Freq 5. Ref 0 0 dB/div Ref 1 0 0 0 dB/div Ref 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	alyzer - Swept SA 50 Q AC 7750000000 Iffset 4.38 dB 20.00 dBm	CHz PNO: Fast ↔	SENSE:PULS	ax80 5775	5MHz 100/100	07:46:00 PM Apr16 TRACE TYPE A W DET A N 5.812 608 (, 2024 Frequency Auto Tu Bm Center Fr 5.77500000 G Start Fr 5.71500000 G Stop Fr 5.83500000 G CF St 12.00000 M Auto M
Keysight Spectrum An R RL RF Center Freq 5. Ref 0 0 dB/div Ref 1 0 0 0 dB/div Ref 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	alyzer - Swept SA 50 Q AC 7750000000 Iffset 4.38 dB 20.00 dBm	CHz PNO: Fast ↔	SENSE:PULS	ax80 5775	5MHz 100/100	07:46:00 PM April 1 TRACE 2 TYPE A W DET A W 5.812 608 (-16.356 c	, 2024 Frequency Auto Tu Bm Center Fr 5.77500000 G Start Fr 5.71500000 G Stop Fr 5.83500000 G CF St 12.00000 M Auto M Freq Offs 0
Keysight Spectrum An RL RF Center Freq 5. Ref 0 0 dB/div Ref 1 0 0 dB/div Ref 1 0	alyzer - Swept SA 50 Q AC 775000000 Iffset 4.38 dB 20.00 dBm	CHz PNO: Fast ↔	SENSE:PULS	ax80 5775	5MHz 100/100	07:46:00 PM Apr 18 TRACE 12 Type A W Det A W 5.812 608 (-16.356 c	, 2024 Frequency Auto Tu Bm Center Fr 5.77500000 G Start Fr 5.71500000 G Stop Fr 5.83500000 G CF St 12.00000 M Auto M Freq Offs 0 Scale Ty
Keysight Spectrum An RL RF Center Freq 5.	alyzer - Swept SA 50 Q AC 775000000 ffset 4.38 dB 20.00 dBm	Pt GHz PN0: Fast → IFGain:Low	SENSE:PULS	ax80 5775		07:46:00 PM April 1 TRACE 2 TYPE A W DET A W 5.812 608 (-16.356 c	, 2024 Frequency HINN HTT HTT HTT HTT HTT HTT HTT H



9. 26dB & 6dB & 99% Emission Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

9.3 Test Procedure

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.

e) 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%.

- The following procedure shall be used for measuring (99 %) power bandwidth:
- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set span = 1.5 times to 5.0 times the OBW.
- 3. Set RBW = 1 % to 5 % of the OBW
- 4. Set VBW \geq 3 \cdot RBW

5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

6. Use the 99 % power bandwidth function of the instrument (if available).

7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

9.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



9.5 Test Result

Note: (A)(B)(C)) Represent the value of antenna A and B and C, The worst data is Antenna A, only shown Antenna A Plot.

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 12V
Test Mode:	(5745-5825MHz)		

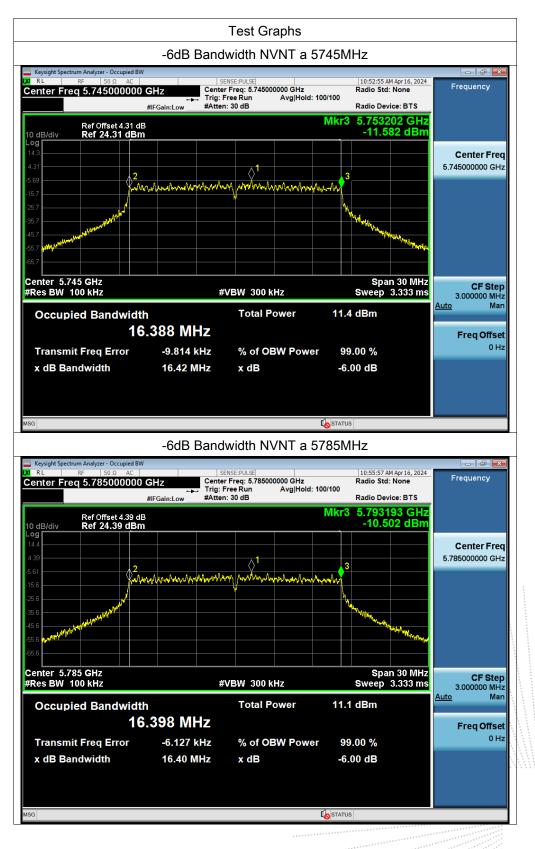
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	а	5745	16.423	0.5	Pass
NVNT	а	5785	16.399	0.5	Pass
NVNT	а	5825	16.378	0.5	Pass
NVNT	n20	5745	17.592	0.5	Pass
NVNT	n20	5785	17.372	0.5	Pass
NVNT	n20	5825	17.615	0.5	Pass
NVNT	n40	5755	35.72	0.5	Pass
NVNT	n40	5795	35.132	0.5	Pass
NVNT	ac20	5745	17.72	0.5	Pass
NVNT	ac20	5785	17.743	0.5	Pass
NVNT	ac20	5825	17.736	0.5	Pass
NVNT	ac40	5755	36.41	0.5	Pass
NVNT	ac40	5795	36.471	0.5	Pass
NVNT	ac80	5775	76.409	0.5	Pass
NVNT	ax20	5745	19.058	0.5	Pass
NVNT	ax20	5785	19.013	0.5	Pass
NVNT	ax20	5825	19.076	0.5	Pass
NVNT	ax40	5755	38.157	0.5	Pass
NVNT	ax40	5795	38.025	0.5	Pass
NVNT	ax80	5775	78.117	0.5	Pass



Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	а	5745	16.447
NVNT	а	5785	16.455
NVNT	а	5825	16.463
NVNT	n20	5745	17.634
NVNT	n20	5785	17.649
NVNT	n20	5825	17.681
NVNT	n40	5755	36.021
NVNT	n40	5795	36.05
NVNT	ac20	5745	17.805
NVNT	ac20	5785	17.767
NVNT	ac20	5825	17.748
NVNT	ac40	5755	36.362
NVNT	ac40	5795	36.386
NVNT	ac80	5775	75.835
NVNT	ax20	5745	19.001
NVNT	ax20	5785	18.982
NVNT	ax20	5825	19
NVNT	ax40	5755	37.9
NVNT	ax40	5795	37.842
NVNT	ax80	5775	77.443

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	-6dB Band	lwidth NVNT a 58	25MHz	
Keysight Spectrum Analyzer - Occupied E RL RF 50 Ω AC		ENSE:PULSE	10:58:07 AM Apr 16, 2024	
enter Freq 5.82500000	0 GHz Cente	r Freq: 5.825000000 GHz Free Run Avg Hold: 100	Radio Std: None	Frequency
		n: 30 dB	Radio Device: BTS	
Ref Offset 4.38	B		Mkr3 5.833169 GHz	
0 dB/div Ref 24.38 dB	m		-12.894 dBm	
14.4				Center Fre
4.38			2	5.825000000 GH
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15.6			and the second s	
55.6 m⁴				
5.6				
enter 5.825 GHz			Span 30 MHz	CF Ste
Res BW 100 kHz	#	VBW 300 kHz	Sweep 3.333 ms	3.000000 MH Auto Ma
Occupied Bandwid	th	Total Power	10.9 dBm	Ma Ma
1	6.383 MHz			Freq Offse
Transmit Freq Error	-19.565 kHz	% of OBW Power	99.00 %	01
x dB Bandwidth	16.38 MHz	x dB	-6.00 dB	
	10.50 11112	X dB	-0.00 00	
G		ι	STATUS	
	-6dB Bandy	vidth NVNT n20 5	5745MHz	
Keysight Spectrum Analyzer - Occupied E				- 6 -
RL RF 50 Ω AC	S	ENSE:PULSE	11:00:44 AM Apr 16, 2024 Radio Std: None	Frequency
enter Freq 5.74500000	Trig: I	FreeRun Avg Hold: 100 n: 30 dB		
			Mkr3 5.753786 GHz	
Ref Offset 4.31 o 0 dB/div Ref 24.31 dB	m i i i i i i i i i i i i i i i i i i i		-11.768 dBm	
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35.7 WWWWW			Man Andrews	
55.7 Martin 1			Martin Andrew	
6.7				
enter 5.745 GHz			Span 30 MHz	
Res BW 100 kHz	#	VBW 300 kHz	Sweep 3.333 ms	CF Ste 3.000000 MH
	4 la	Total Power	11.1 dBm	Auto Ma
Occupied Dendwid		Total Fower		
Occupied Bandwid				Freq Offse
	7.623 MHz			0 H
	-9.547 kHz	% of OBW Power	99.00 %	
1		% of OBW Power x dB	99.00 % -6.00 dB	
1 Transmit Freq Error	-9.547 kHz			
1 Transmit Freq Error	-9.547 kHz			
1 Transmit Freq Error	-9.547 kHz	x dB		

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		vidth NVNT n20 57	85MHZ	
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC	s	ENSE:PULSE	11:12:02 AM Apr 16, 2024	- 6 -
enter Freq 5.78500000	CHZ Cente	r Freq: 5.785000000 GHz Free Run Avg Hold: 100/1	Radio Std: None	Frequency
		n: 30 dB	Radio Device: BTS	
Ref Offset 4.39 dB		N	lkr3 5.793654 GHz -12.248 dBm	
0 dB/div Ref 24.39 dBm			-12.246 UBIII	
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35.6			Non Maria	
45.6			And the standard and th	
55.6 M^{MM}				
65.6				
Center 5.785 GHz			Span 30 MHz	CF Ste
Res BW 100 kHz	#	VBW 300 kHz	Sweep 3.333 ms	3.000000 MH <u>Auto</u> Ma
Occupied Bandwidth		Total Power	11.5 dBm	
17	.594 MHz			Freq Offse
Transmit Freq Error	-31.681 kHz	% of OBW Power	99.00 %	0 H
x dB Bandwidth	17.37 MHz	x dB	-6.00 dB	
			0.00 48	
G		ų,	STATUS	
	-6dB Bandv	vidth NVNT n20 58	325MHz	
Keysight Spectrum Analyzer - Occupied BW				- 6 -
RL RF 50 Ω AC		ENSE:PULSE r Freq: 5.825000000 GHz	11:14:07 AM Apr 16, 2024 Radio Std: None	Frequency
	Trig: I	Free Run Avg Hold: 100/1 n: 30 dB	100 Radio Device: BTS	
			lkr3 5.833784 GHz	
Ref Offset 4.38 dB 0 dB/div Ref 24.38 dBm			-12.269 dBm	
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Center 5.825 GHz Res BW 100 kHz	# 1		Span 30 MHz	3.000000 MH <u>Auto</u> Ma
Center 5.825 GHz Res BW 100 kHz Occupied Bandwidth 17	, 618 MHz	EVBW 300 kHz Total Power	Span 30 MHz Sweep 3.333 ms	3.000000 MH <u>Auto</u> Ma Freq Offse
Center 5.825 GHz Res BW 100 kHz Occupied Bandwidth 17, Transmit Freq Error	# 1	VBW 300 kHz	Span 30 MHz Sweep 3.333 ms	3.000000 MH <u>Auto</u> Ma Freq Offse
Center 5.825 GHz Res BW 100 kHz Occupied Bandwidth 17	, 618 MHz	EVBW 300 kHz Total Power	Span 30 MHz Sweep 3.333 ms	3.000000 MH
Center 5.825 GHz Res BW 100 kHz Occupied Bandwidth 17, Transmit Freq Error	# 1 .618 MHz -23.738 kHz	WBW 300 kHz Total Power % of OBW Power	Span 30 MHz Sweep 3.333 ms 11.2 dBm 99.00 %	3.000000 MH <u>Auto</u> Ma Freq Offse
Senter 5.825 GHz Res BW 100 kHz Occupied Bandwidth 17 Transmit Freq Error	# 1 .618 MHz -23.738 kHz	WBW 300 kHz Total Power % of OBW Power	Span 30 MHz Sweep 3.333 ms 11.2 dBm 99.00 %	3.000000 MH <u>Auto</u> Ma Freq Offse

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	-6dB Bandv	vidth NVNT n40 57	755MHz		
Keysight Spectrum Analyzer - Occupied B	W			&	
RL RF 50 Ω AC Center Freq 5.75500000		SENSE:PULSE er Freq: 5.755000000 GHz	11:50:41 AM Apr 16, 202 Radio Std: None	Frequency	
	Trig:	Free Run Avg Hold: 100/ n: 30 dB			
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65.6			1 X	"	
enter 5.755 GHz Res BW 100 kHz		#VBW 300 kHz	Span 60 MH Sweep 6 m		
				6.000000 MH Auto Mar	
Occupied Bandwid		Total Power	11.8 dBm		
3	5.934 MHz			Freq Offse	
Transmit Freq Error	68.096 kHz	% of OBW Power	99.00 %	0 H:	
x dB Bandwidth	35.72 MHz	x dB	-6.00 dB		
		1			
SG		Г <mark>0</mark>	STATUS	_	
3G	-6dB Bandv	vidth NVNT n40 57			
Keysight Spectrum Analyzer - Occupied B	w	vidth NVNT n40 57	795MHz	4	
	w 0 GHz Cente	vidth NVNT n40 57	795MHz 11:53:02 AM Apr 16, 203 Radio Std: None		
Keysight Spectrum Analyzer - Occupied B RL RF 50 Ω AC	W 0 GHz Cente Trig:	vidth NVNT n40 57	795MHz 11:53:02 AM Apr 16, 203 Radio Std: None	4	
Keysight Spectrum Analyzer - Occupied B RL RF 50 Ω AC Center Freq 5.795000001	W O GHz Cente #IFGain:Low #Atte	vidth NVNT n40 57 SENSE:PULSE ar Freq: 5.795000000 GHz Free Run Avg Hold: 100/ n: 30 dB	11:53:02 AM Apr 16, 202 Radio Std: None Radio Device: BTS Akr3 5.812574 GH	Frequency	
keysight Spectrum Analyzer - Occupied B RL RF 50 Ω AC Senter Freq 5.795000000 Ref Offset 4.39 α 0 dB/div Ref 24.39 dB	W D GHZ #IFGain:Low #Atte	vidth NVNT n40 57 SENSE:PULSE ar Freq: 5.795000000 GHz Free Run Avg Hold: 100/ n: 30 dB	11:53:02 AM Apr 16, 202 Radio Std: None Radio Device: BTS	Frequency	
Keysight Spectrum Analyzer - Occupied B RL RF 50 Q AC Center Freq 5.795000000 Ref Offset 4.39 C	W D GHZ #IFGain:Low #Atte	vidth NVNT n40 57 SENSE:PULSE ar Freq: 5.795000000 GHz Free Run Avg Hold: 100/ n: 30 dB	11:53:02 AM Apr 16, 202 Radio Std: None Radio Device: BTS Akr3 5.812574 GH	Frequency	
Keysight Spectrum Analyzer - Occupied B RL RF 50 Ω AC enter Freq 5.795000000 Ref Offset 4.39 G C 0 dB/div Ref 24.39 dB	W D GHZ #IFGain:Low #Atte	vidth NVNT n40 57 SENSE:PULSE ar Freq: 5.795000000 GHz Free Run Avg Hold: 100/ n: 30 dB	11:53:02 AM Apr 16, 202 Radio Std: None Radio Device: BTS Akr3 5.812574 GH	Frequency	
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Keysight Spectrum Analyzer - Occupied B RL RF 50 Ω AC Senter Freq 5.795000000 Ref Offset 4.39 d AC 0 dB/div Ref 24.39 dBr AC 14 4 AC AC	W D GHZ #IFGain:Low #Atte	vidth NVNT n40 57 SENSE:PULSE ar Freq: 5.795000000 GHz Free Run Avg Hold: 100/ n: 30 dB	11:53:02 AM Apr 16, 202 Radio Std: None Radio Device: BTS Akr3 5.812574 GH	Frequency	
Keysight Spectrum Analyzer - Occupied B RL RF 50 Ω AC center Freq 5.795000000 Ref Offset 4.39 AC O dB/div Ref 24.39 dB O dB/div Ref 24.39 dB Q 14.4 4.33 5.61 4.33 4.33 4.33 4.33 4.33 4.33 4.33 4.33 4.33 <	W D GHZ #IFGain:Low #Atte	vidth NVNT n40 57	11:53:02 AM Apr 16, 202 Radio Std: None Radio Device: BTS Akr3 5.812574 GH	Frequency	
Keysight Spectrum Analyzer - Occupied B RL RF 50 Ω AC center Freq 5.795000000 O Bef Offset 4.39 dB O 90 Ref Offset 4.39 dB O Bef Offset 4.39 dB 91 92 4.4 92 2 16.1 2 2 10 10	W D GHZ #IFGain:Low #Atte	vidth NVNT n40 57	11:53:02 AM Apr 16, 202 Radio Std: None Radio Device: BTS Akr3 5.812574 GH	Frequency	
Keysight Spectrum Analyzer - Occupied B RL RF 50 Ω AC center Freq 5.795000000 O Ref Offset 4.39 dB O 90 AC C C 91 AC C C 92 AC C C C 93 AC C <thc< th=""> C C C</thc<>	W D GHZ #IFGain:Low #Atte	vidth NVNT n40 57	11:53:02 AM Apr 16, 202 Radio Std: None Radio Device: BTS Akr3 5.812574 GH	Frequency	
Keysight Spectrum Analyzer - Occupied B RL RF 50 Ω AC center Freq 5.795000000 O Ref Offset 4.39 dB O 90 AC C C 91 AC C C 92 AC C C C 93 AC C <thc< th=""> C C C</thc<>	W D GHZ #IFGain:Low #Atte	vidth NVNT n40 57	11:53:02 AM Apr 16, 202 Radio Std: None Radio Device: BTS Akr3 5.812574 GH	Frequency	
Keysight Spectrum Analyzer - Occupied B RL RF 50 Ω AC center Freq 5.79500000 Set A Set A AC center Freq 5.79500 and C Set A Set A Set A 0 dB/div Ref Offset 4.39 dB Set A Set A 0 g Set A Set A Set A 0 f56 Set A Set A Set A	W D GHZ #IFGain:Low #Atte	vidth NVNT n40 57	11:53:02 AM Apr 16, 202 Radio Std: None Radio Device: BTS Akr3 5.812574 GH	Frequency	
Reysight Spectrum Analyzer - Occupied B RL RF 50 Ω AC Center Freq 5.795000000 Ref Offset 4.39 dB Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2"Colspan="2">Colspan="2"Cols	W D GHZ #IFGain:Low #Atte	vidth NVNT n40 57	795MHz Radio Std: None Radio Device: BTS Akr3 5.812574 GH -15.805 dBt	Frequency Genter Frequency Center Frequency 5.795000000 GH2	
Keysight Spectrum Analyzer - Occupied B RL RF 50 Ω AC center Freq 5.795000000 Ref Offset 4.39 c O dB/div Ref 24.39 dBi og 0 dB/div Ref 24.39 dBi Sign Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2" Colspan="2" <th colspan<="" td=""><td>W D GHz #IFGain:Low Heffin:Low He</td><td>vidth NVNT n40 57</td><td>795MHz Addio Std: None Radio Device: BTS Akr3 5.812574 GH -15.805 dBr</td><td> Frequency Center Frequency 5.795000000 GHa 5.795000000 GHa CF Step 6.00000 MHa </td></th>	<td>W D GHz #IFGain:Low Heffin:Low He</td> <td>vidth NVNT n40 57</td> <td>795MHz Addio Std: None Radio Device: BTS Akr3 5.812574 GH -15.805 dBr</td> <td> Frequency Center Frequency 5.795000000 GHa 5.795000000 GHa CF Step 6.00000 MHa </td>	W D GHz #IFGain:Low Heffin:Low He	vidth NVNT n40 57	795MHz Addio Std: None Radio Device: BTS Akr3 5.812574 GH -15.805 dBr	 Frequency Center Frequency 5.795000000 GHa 5.795000000 GHa CF Step 6.00000 MHa
Keysight Spectrum Analyzer - Occupied B RL RF 50 Q AC Ref Offset 4.39 G 0 dB/div Ref 24.39 dBi 14 4 2 156 2 4 156 2 4 156 2 4 156 2 4 156 2 4 156 2 4 156 2 4 156 2 4 156 2 4 161 2 2 156 2 4 161 2 2 156 2 4 161 2 4 17 2 4 180 4 4 190 4 4 190 4 4 190 4 4	W D GHz #FGain:Low Trig: #Atte #Atte	vidth NVNT n40 57	795MHz Radio Std: None Radio Device: BTS Alkr3 5.812574 GH -15.805 dBt	Frequency Genter Frequency Center Frequency 5.795000000 GH2	
Reysight Spectrum Analyzer - Occupied B RL RF 50 Q AC Ref Offset 4.39 dB O dB/div Ref 24.39 dB 144 4 <td< td=""><td>W D GHz #IFGain:Low IE m where where where</td><td>vidth NVNT n40 57</td><td>795MHz Radio Std: None Radio Device: BTS Akr3 5.812574 GH -15.805 dBt</td><td> Frequency Center Freq 5.79500000 GH: CF Step 6.00000 MH: Auto Mar </td></td<>	W D GHz #IFGain:Low IE m where where	vidth NVNT n40 57	795MHz Radio Std: None Radio Device: BTS Akr3 5.812574 GH -15.805 dBt	 Frequency Center Freq 5.79500000 GH: CF Step 6.00000 MH: Auto Mar 	
Reysight Spectrum Analyzer - Occupied B RL RF 50 Q AC Ref Offset 4.39 dB O dB/div Ref 24.39 dB 144 4 <td< td=""><td>W D GHz #FGain:Low Trig: #Atte #Atte</td><td>vidth NVNT n40 57</td><td>795MHz Radio Std: None Radio Device: BTS Alkr3 5.812574 GH -15.805 dBt</td><td>Frequency Center Freq 5.795000000 GH CF Step 6.000000 MH Auto Mar Freq Offse</td></td<>	W D GHz #FGain:Low Trig: #Atte #Atte	vidth NVNT n40 57	795MHz Radio Std: None Radio Device: BTS Alkr3 5.812574 GH -15.805 dBt	Frequency Center Freq 5.795000000 GH CF Step 6.000000 MH Auto Mar Freq Offse	
Reysight Spectrum Analyzer - Occupied B RL RF 50 Q AC Ref Offset 4.39 dB O dB/div Ref 24.39 dB 144 4 <td< td=""><td>W D GHz #IFGain:Low IE m where where where</td><td>vidth NVNT n40 57</td><td>795MHz Radio Std: None Radio Device: BTS Alkr3 5.812574 GH -15.805 dBt</td><td>Frequency Center Freq 5.795000000 GH CF Step 6.000000 MH Auto Mar Freq Offse</td></td<>	W D GHz #IFGain:Low IE m where where	vidth NVNT n40 57	795MHz Radio Std: None Radio Device: BTS Alkr3 5.812574 GH -15.805 dBt	Frequency Center Freq 5.795000000 GH CF Step 6.000000 MH Auto Mar Freq Offse	
Ref Offset 4.39 d Ref Offset 4.39 d 0 dB/div Ref 24.39 dB 0 dB/di	W OGHZ #FGain:Low HEGain:Low HEGain:Low HEGain:Low HEGAIN HEGAIN:Low HEGAIN:Low HEGAIN:Low HEGAIN:Low HEGAIN:L	vidth NVNT n40 57	795MHz Radio Std: None Radio Device: BTS Akr3 5.812574 GH -15.805 dBr Span 60 MH Sweep 6 m 11.8 dBm	 Frequency Center Frequency 5.795000000 GHa 5.795000000 GHa CF Step 6.00000 MHa 	
Ref Offset 4.39 d Ref Offset 4.39 d Ref Offset 4.39 d Ref 24.39 dBi 24 d 25 d 25 d 25 d 25 d 25 d 25 d 25 d 25	W OGHZ #FGain:Low HEGain:Low HEGain:Low HEGain:Low HEGAIN:Low HEGA	vidth NVNT n40 57	795MHz Radio Std: None Radio Device: BTS Akr3 5.812574 GH -15.805 dBt Span 60 MH Sweep 6 m 11.8 dBm 99.00 %	Frequency Center Freq 5.795000000 GH CF Step 6.000000 MH Auto Mar Freq Offse	
Ref Offset 4.39 d Ref Offset 4.39 d Ref Offset 4.39 d Ref 24.39 d A A A A A A A A A A A A A A A A A A A	W OGHZ #FGain:Low HEGain:Low HEGain:Low HEGain:Low HEGAIN:Low HEGA	vidth NVNT n40 57	795MHz Radio Std: None Radio Device: BTS Akr3 5.812574 GH -15.805 dBt Span 60 MH Sweep 6 m 11.8 dBm 99.00 %	Frequency Center Freq 5.79500000 GH CF Step 6.00000 MH Auto Mat Freq Offse	
Keysight Spectrum Analyzer - Occupied B RL RF 50 Q AC enter Freq 5.795000000 Ref Offset 4.39 dB O dB/div Ref Offset 4.39 dB og 0 dB/div Ref Offset 4.39 dB og A 2 S6 S6 2 S6					

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	-6dB Bandv	vidth NVNT ac20 5	5745MHz	
Keysight Spectrum Analyzer - Occupied BW		CENCE DUI CE	11.04.00	
RL RF 50 Ω AC Center Freq 5.745000000	GHz Cent	sense:PULSE ter Freq: 5.745000000 GHz	11:24:13 AM Apr 16, 2024 Radio Std: None	Frequency
	Trig	: Free Run Avg Hold: 100 en: 30 dB	/100 Radio Device: BTS	
			Mkr3 5.753836 GHz	
0 dB/div Ref Offset 4.31 dl Ref 24.31 dBn	n		-12.405 dBm	
.og 14.3				Center Free
4.31				5.745000000 GH
2			3	
15.7	mhonton	my portunt mound and man	MINTA	
25.7			<u>N</u>	
35.7			March March	
45.7			and the second second	
55.7				
65.7				
Center 5.745 GHz			Span 30 MHz	CF Step
Res BW 100 kHz		#VBW 300 kHz	Sweep 3.333 ms	3.000000 MH
Occupied Bandwidt	h	Total Power	11.3 dBm	<u>Auto</u> Mai
	7.680 MHz			Erea Offee
		% of OBW Power	99.00 %	Freq Offse 0 H
Transmit Freq Error	-23.518 kHz			
x dB Bandwidth	17.72 MHz	x dB	-6.00 dB	
SG		Г	STATUS	·
	-6dB Bandv	vidth NVNT ac20 5	5785MHz	
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC		SENSE:PULSE	11:30:40 AM Apr 16, 2024	
Center Freq 5.785000000	GHz Cent	ter Freq: 5.785000000 GHz : Free Run Avg Hold: 100	Radio Std: None	Frequency
		en: 30 dB	Radio Device: BTS	
Ref Offset 4.39 dl	B		Mkr3 5.793856 GHz	
0 dB/div Ref 24.39 dBn			-11.953 dBm	
NANEL				
				Center Free
14.4				
4.39	an I han the same and wat	1 hama an altan A-da A-an A-an A-a	3	
14.4 4.39 5.61 15.6 15.6	ondrevlandard	here the second se		
14.4 4.39 5.61 156 25.6	and fear that the second second	Very and an Index and an Index		
14.4 4.39 5.61 5.66 22.66 35.6 4000000000000000000000000000000000000	and her that the second second	Mar and an and and		
14.4 4.39 5.61 25.6 25.6 25.6 36.6 45.6	- And Antonia	1 Van parta parta 	Marine Marine Marine	
14.4 4.39 5.61 25.61 25.6 35.6 35.6 45.6 55.6	~~~lharland	1 Verry northern to the stand of the		
14.4 4.39 5.61 25.6 5.56 5.56 5.56 5.56 5.56	~~.lpr.l	1 Van markan ma		
14.4 4.39 5.61 5.66 5.66 5.66 6 5.66 6 5.66 6 5.66 5.66 5.785 GHz			Span 30 MHz	5.785000000 GH
14.4 4.39 5.61 5.61 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6		#VBW 300 kHz	Span 30 MHz Sweep 3.333 ms	Center Free 5.78500000 GH: 5.78500000 GH: CF Step 3.00000 MH: <u>Auto</u> Mar
2 2 2 2 2 2 2 2 2 2 2 2 2 2	:h		Span 30 MHz	5.785000000 GH СF Ster 3.000000 MH
2 2 2 2 2 2 2 2 2 2 2 2 2 2		#VBW 300 kHz	Span 30 MHz Sweep 3.333 ms	5.785000000 GH CF Step 3.000000 MH <u>Auto</u> Mar
14.4 4.39 5.61 5.66 5.66 5.66 5.66 5.66 5.66 5.66	:h	#VBW 300 kHz	Span 30 MHz Sweep 3.333 ms	5.785000000 GH CF Step 3.000000 MH <u>Auto</u> Mar Freq Offse
14.4 4.39 5.61 5.61 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6	th 7.688 MHz -15.324 kHz	#VBW 300 kHz Total Power % of OBW Power	Span 30 MHz Sweep 3.333 ms 11.2 dBm 99.00 %	5.785000000 GH CF Ster 3.000000 MH
A 144 A 144	th 7.688 MHz	#VBW 300 kHz Total Power	Span 30 MHz Sweep 3.333 ms 11.2 dBm	5.785000000 GH CF Step 3.000000 MH <u>Auto</u> Mar Freq Offse
2 2 2 2 2 2 2 2 2 2 2 2 2 2	th 7.688 MHz -15.324 kHz	#VBW 300 kHz Total Power % of OBW Power	Span 30 MHz Sweep 3.333 ms 11.2 dBm 99.00 %	5.785000000 GH CF Stej 3.000000 MH <u>Auto</u> Mai
A 144 4 139 5 61 5 6 5 6 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7	th 7.688 MHz -15.324 kHz	#VBW 300 kHz Total Power % of OBW Power	Span 30 MHz Sweep 3.333 ms 11.2 dBm 99.00 %	5.785000000 GH CF Step 3.000000 MH <u>Auto</u> Mar Freq Offse

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	-6dB Band	width NVNT ac20	0 5825MHz	
Keysight Spectrum Analyzer - Occupied B RL RF 50 Ω AC		SENSE:PULSE	11:34:38 AM Apr 16, 2024	
Center Freq 5.82500000	0 GHz Ce	nter Freq: 5.825000000 GHz	Radio Std: None	Frequency
		g: Free Run Avg Hold: tten: 30 dB	100/100 Radio Device: BTS	
Dof 0ffoot 4 30 o			Mkr3 5.833853 GHz	1
Ref Offset 4.38 d 0 dB/div Ref 24.38 dBi			-12.246 dBm	
.og				0
4.38				Center Free 5.825000000 GH
		\\	3	3.823000000 811
15.6 V ANN	moundant	my perminanter	hannan	
25.6				
35.6			·V.	
45.6			"They are the	
55.6			and the second s	
65.6				
Center 5.825 GHz			Span 30 MHz	
Res BW 100 kHz		#VBW 300 kHz	Sweep 3.333 ms	3.000000 MH
Occupied Bandwid	th	Total Power	11.4 dBm	<u>Auto</u> Mar
1	7.679 MHz			Freq Offse
Transmit Freq Error	-15.165 kHz	% of OBW Powe	er 99.00 %	он
x dB Bandwidth	17.74 MHz	x dB	-6.00 dB	
	17.7 4 10112	X GB	-0.00 ab	
SG			STATUS	-
	-6dB Band	width NVNT ac40) 5755MHz	
Keysight Spectrum Analyzer - Occupied B				
RL RF 50 Ω AC Center Freg 5.755000000	0 GHz Ce	SENSE:PULSE nter Freq: 5.755000000 GHz	11:59:23 AM Apr 16, 2024 Radio Std: None	Frequency
	斗 Tri	g: Free Run Avg Hold: tten: 30 dB	100/100 Radio Device: BTS	
D.(06-++427-			Mkr3 5.773183 GHz	1
Ref Offset 4.37 c 0 dB/div Ref 24.37 dBi			-14.532 dBm	
.og				O
4.37				Center Free 5.755000000 GH
5.63			¹ 3	5.75500000 GH
15.6	halfouter frequencies bed bed and	alietas walaybaliseliselyalarsparta	danka kala	
25.6				
35.6				
45.6				
55.6 WWW			TV www.	
65.6			Span 60 MHz	CF Ste
Center 5.755 GHz				
Center 5.755 GHz		#VBW 300 kHz	Sweep 6 ms	0.000000 Mil 1
Center 5.755 GHz Res BW 100 kHz	th	#VBW 300 kHz Total Power		0.000000 Milli
Center 5.755 GHz Res BW 100 kHz Occupied Bandwid	th 6.221 MHz		Sweep 6 ms	<u>Auto</u> Ma
Center 5.755 GHz Res BW 100 kHz Occupied Bandwid			Sweep 6 ms	Auto Ma
Center 5.755 GHz Res BW 100 kHz Occupied Bandwid	6.221 MHz -21.831 kHz	Total Power	Sweep 6 ms 11.6 dBm er 99.00 %	0.000000 Milli
Center 5.755 GHz Res BW 100 kHz Occupied Bandwid 30 Transmit Freq Error	6.221 MHz	Total Power % of OBW Powe	Sweep 6 ms	Auto Ma
Center 5.755 GHz Res BW 100 kHz Occupied Bandwid 30 Transmit Freq Error	6.221 MHz -21.831 kHz	Total Power % of OBW Powe	Sweep 6 ms 11.6 dBm er 99.00 %	Auto Ma
Center 5.755 GHz Res BW 100 kHz Occupied Bandwid 30 Transmit Freq Error	6.221 MHz -21.831 kHz	Total Power % of OBW Powe	Sweep 6 ms 11.6 dBm er 99.00 %	Auto Ma

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	-60B Band	width NVNT ac40 5	795MHz	
Keysight Spectrum Analyzer - Occupied RL RF 50 Ω AC		SENSE:PULSE	12:01:46 PM Apr 16, 2024	
enter Freq 5.79500000	Trig	nter Freq: 5.795000000 GHz g: Free Run Avg Hold: 100/		Frequency
	#IFGain:Low #At	ten: 30 dB	Radio Device: BTS	r
Ref Offset 4.39 0 dB/div Ref 24.39 dB		Ň	lkr3 5.813209 GHz -15.397 dBm	
.og				
4.39				Center Free 5.795000000 GH
5.61			3	3.793000000 GH
15.6	elevilestrapper hydrodiates	Norman permition best perland patheoperatures the second	Mapalan A	
25.6				
45.6				
45.6			MAN Advanta	
65.6				
Center 5.795 GHz			Span 60 MHz	
Res BW 100 kHz		#VBW 300 kHz	Sweep 6 ms	CF Step 6.000000 MH
Occupied Bandwid	th	Total Power	11.3 dBm	<u>Auto</u> Mar
	6.228 MHz			Eron Offer
▼ Transmit Freq Error	-26.438 kHz	% of OBW Power	99.00 %	Freq Offse 0 H
x dB Bandwidth	-20.430 KHz 36.47 MHz	x dB	-6.00 dB	
	50.47 WHZ		-0.00 uB	
SG		4	STATUS	
	-6dB Bandy	width NVNT ac80 5	775MHz	
Keysight Spectrum Analyzer - Occupied				- ē E
RL RF 50 Ω AC Center Freg 5.77500000	0 GHz Cen	SENSE:PULSE Iter Freq: 5.775000000 GHz	12:49:43 PM Apr 16, 2024 Radio Std: None	Frequency
		g: Free Run Avg Hold: 100/ ten: 30 dB	100 Radio Device: BTS	
Ref Offset 4.38	dB	Ν	/kr3 5.813206 GHz	-
0 dB/div Ref 24.38 dE	m		-19.370 dBm	
14.4				Center Free
1.00				5.775000000 GH
			A	
5.62		والفافي ومقاط لخاصله الخاص والفاق	3	
5.62 2 15.6 444,14	nya dalah kalang na kala kala kala kala kala kala kala k	diddau yyddiadaiadai dai dai ar		
5.62 15.6 25.6	graf forty but coloring and particular for the second state of the			
5.62 15.6 25.6 35.6 45.6	get for historical has placed with			
4.38	ger fan de begeen de jake per de geek fan de stere Geek geek geek geek geek geek geek geek			
562 2 566 2 566 4 566 4 567 4 567 4 567 4 567 4 567 4 567 4 567 4 567 4 567 4 577 4 5777 4 5777 4 577 4 577 4 577 4 577 4 577 4 577 4 577 4	996 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			
5.62 25.6 35.6 45.6 55.7 55.6 55.7 55.7	99444444999994494444444444444444444444		Span 120 MHz	
5 62 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6		#VBW 300 kHz	Span 120 MHz Sweep 12 ms	12.000000 MH
662 566 566 566 566 566 566 Center 5.775 GHz Frees BW 100 kHz Occupied Bandwic	Ith		Span 120 MHz	12.000000 MH
562 566 566 566 566 566 566 566		#VBW 300 kHz	Span 120 MHz Sweep 12 ms	12.000000 MH <u>Auto</u> Mar Freq Offse
662 566 566 566 566 566 566 Center 5.775 GHz Frees BW 100 kHz Occupied Bandwic	Ith	#VBW 300 kHz	Span 120 MHz Sweep 12 ms	12.000000 MH <u>Auto</u> Mar Freq Offse
562 566 566 566 566 566 566 566	Ith 5.702 MHz	#VBW 300 kHz Total Power	Span 120 MHz Sweep 12 ms 11.9 dBm	CF Step 12.00000 MH Auto Mar Freq Offse 0 H
Sector 5.775 GHz Res BW 100 kHz Occupied Bandwic Transmit Freq Error	Ith 5.702 MHz 1.407 kHz	#VBW 300 kHz Total Power % of OBW Power	Span 120 MHz Sweep 12 ms 11.9 dBm 99.00 %	12.000000 MH <u>Auto</u> Mar Freq Offse
Center 5.775 GHz Res BW 100 kHz Occupied Bandwic Transmit Freq Error	Ith 5.702 MHz 1.407 kHz	#VBW 300 kHz Total Power % of OBW Power	Span 120 MHz Sweep 12 ms 11.9 dBm 99.00 %	12.000000 MH <u>Auto</u> Ma Freq Offse

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		vidth NVNT ax20	5/45MHz	
Keysight Spectrum Analyzer - Occupied B RL RF 50 Ω AC		SENSE:PULSE	11:40:04 AM Apr16, 2024	
enter Freq 5.74500000) GHz Cent	ter Freq: 5.745000000 GHz : Free Run Avg Hold: 1	Radio Std: None	Frequency
		en: 30 dB	Radio Device: BTS	
Ref Offset 4.31 d	В		Mkr3 5.754516 GHz	
0 dB/div Ref 24.31 dBr	<u>n</u>		-12.718 dBm	
14.3				Center Fre
4.31		1	2	5.745000000 GH
15.7	unter monter would were	many provide the sector of the sector of	Wetwo wy data a wy	
25.7				
35.7			The second se	
45.7			- Weyman And And	
55.7 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 				
65.7				
Center 5.745 GHz			Span 30 MHz	CF Ste
Res BW 100 kHz		#VBW 300 kHz	Sweep 3.333 ms	3.000000 MH
Occupied Bandwidt	th	Total Power	11.7 dBm	<u>Auto</u> Ma
18	8. 942 MHz			FreqOffse
Transmit Freq Error	-12.818 kHz	% of OBW Power	99.00 %	0 H
x dB Bandwidth	19.06 MHz	x dB	-6.00 dB	
	19.00 WHZ	хив	-0.00 dB	
G			STATUS	
	6dB Bandy	vidth NVNT ax20	5785MHz	
Keysight Spectrum Analyzer - Occupied B				- 6 -
RL RF 50 Ω AC		SENSE:PULSE	11:42:30 AM Apr 16, 2024	Frequency
enter Freq 5.78500000	Trig	ter Freq: 5.785000000 GHz : Free Run Avg Hold: 1		, requirely
		en: 30 dB	Radio Device: BTS Mkr3 5.794491 GHz	
Ref Offset 4.39 d 0 dB/div Ref 24.39 dBr	B n		-13.143 dBm	
				0. t T
1.39				Center Fre 5.785000000 GH
			3	
5.6 XnA-le	month the for the half of	ware when have been haven have a		
35.6			"The state of the	
15.6			and the second s	
15.6 4 Martin Martin Martin				
15.6				
5.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6		#VBW 300 kHz	Span 30 MHz Sweep 3.333 ms	
25.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6			Span 30 MHz Sweep 3.333 ms	3.000000 MH
Cocupied Bandwidt	th	#VBW 300 kHz Total Power	Span 30 MHz	3.000000 MH
			Span 30 MHz Sweep 3.333 ms	3.000000 M⊢ <u>Auto</u> Ma Freq Offse
Cocupied Bandwidt	th		Span 30 MHz Sweep 3.333 ms 11.5 dBm	3.000000 M⊢ <u>Auto</u> Ma Freq Offse
senter 5.785 GHz Res BW 100 kHz Occupied Bandwidt	th 3.955 MHz	Total Power	Span 30 MHz Sweep 3.333 ms 11.5 dBm	3.000000 MH <u>Auto</u> Ma Freq Offse
Senter 5.785 GHz Res BW 100 kHz Occupied Bandwidt Transmit Freq Error	th 8. 955 MHz -15.288 kHz	Total Power % of OBW Power	Span 30 MHz Sweep 3.333 ms 11.5 dBm 99.00 %	3.000000 MH <u>Auto</u> Ma Freq Offse
66 www.harmone.org 66 content 5.785 GHz Res BW 100 kHz Occupied Bandwidt 18 Transmit Freq Error	th 8. 955 MHz -15.288 kHz	Total Power % of OBW Power	Span 30 MHz Sweep 3.333 ms 11.5 dBm 99.00 %	3.000000 M⊢ <u>Auto</u> Ma Freq Offse
66 www.harmone.org 66 content 5.785 GHz Res BW 100 kHz Occupied Bandwidt 18 Transmit Freq Error	th 8. 955 MHz -15.288 kHz	Total Power % of OBW Power	Span 30 MHz Sweep 3.333 ms 11.5 dBm 99.00 %	СF Ste 3.00000 МН <u>Auto</u> Ма Freq Offse 0 Н

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	-6dB Bandw	idth NVNT ax20 5	5825MHz	
Keysight Spectrum Analyzer - Occupied BV RL RF 50 Ω AC		SENSE:PULSE	11:44:37 AM Apr 16, 2024	
Center Freq 5.82500000	GHz Cente	Freq: 5.825000000 GHz Free Run Avg Hold: 100	Radio Std: None	Frequency
		n: 30 dB	Radio Device: BTS	
Ref Offset 4.38 d	в		Mkr3 5.834526 GHz	
0 dB/div Ref 24.38 dBn	n		-14.245 dBm	
14.4				Center Free
4.38				5.825000000 GH
5.62 2	-	un warher and more thank more	When the 3	
15.6				
35.6			<u> </u>	
45.6			""MANNAMANA	
55.6 Martin			and the second s	
65.6				
Center 5.825 GHz			Span 30 MHz	
Res BW 100 kHz	#	≇VBW 300 kHz	Sweep 3.333 ms	CF Step 3.000000 MH
Occupied Bandwidt	:h	Total Power	11.3 dBm	<u>Auto</u> Ma
	3.954 MHz			
				Freq Offse 0 H
Transmit Freq Error	-12.114 kHz	% of OBW Power	99.00 %	UH .
x dB Bandwidth	19.08 MHz	x dB	-6.00 dB	
SG		r1	STATUS	
			5	
	-6dB Bandw	vidth NVNT ax40 5	5755MHz	
Keysight Spectrum Analyzer - Occupied BV RL RF 50 Ω AC		chice put ce	12-24-40 PM 4==16, 2024	- 6 -
RL RF 50Ω AC Center Freq 5.755000000	GHz Cente	SENSE:PULSE er Freq: 5.755000000 GHz	12:34:48 PM Apr 16, 2024 Radio Std: None	Frequency
		Free Run Avg Hold: 100 n: 30 dB	/100 Radio Device: BTS	
Ref Offset 4.37 d	в		Mkr3 5.77407 GHz	
0 dB/div Ref 24.37 dBn			-15.521 dBm	
14.4				Center Free
4.37				5.755000000 GH
5.63	hirld have been been from the street		4 J.J.	
	en nevenski ser fra ter	Long and the second		
35.6				
45.6				
55.6 June 100			MANA	
65.6			Span 60 MHz	
				CF Step
Center 5.755 GHz	#	≇VBW 300 kHz	Sweep 6 ms	6.000000 MH
Center 5.755 GHz Res BW 100 kHz			Sweep 6 ms	6.000000 MH <u>Auto</u> Mai
Center 5.755 GHz Res BW 100 kHz Occupied Bandwidt	th	≇VBW 300 kHz Total Power		<u>Auto</u> Mar
Center 5.755 GHz Res BW 100 kHz Occupied Bandwidt 37	th 7.764 MHz	Total Power	Sweep 6 ms 11.4 dBm	<u>Auto</u> Mar Freq Offse
Center 5.755 GHz Res BW 100 kHz Occupied Bandwidt 37 Transmit Freq Error	th 7.764 MHz -8.834 kHz	Total Power % of OBW Power	Sweep 6 ms 11.4 dBm 99.00 %	<u>Auto</u> Mar Freq Offse
Center 5.755 GHz Res BW 100 kHz Occupied Bandwidt 37	th 7.764 MHz	Total Power	Sweep 6 ms 11.4 dBm	<u>Auto</u> Mar
Center 5.755 GHz Res BW 100 kHz Occupied Bandwidt 37 Transmit Freq Error	th 7.764 MHz -8.834 kHz	Total Power % of OBW Power	Sweep 6 ms 11.4 dBm 99.00 %	Auto Mai Freq Offse
Center 5.755 GHz Res BW 100 kHz Occupied Bandwidt 37 Transmit Freq Error	th 7.764 MHz -8.834 kHz	Total Power % of OBW Power	Sweep 6 ms 11.4 dBm 99.00 %	Auto Mai Freq Offse
Center 5.755 GHz Res BW 100 kHz Occupied Bandwidt 37 Transmit Freq Error	th 7.764 MHz -8.834 kHz	Total Power % of OBW Power x dB	Sweep 6 ms 11.4 dBm 99.00 %	Auto Mai Freq Offse

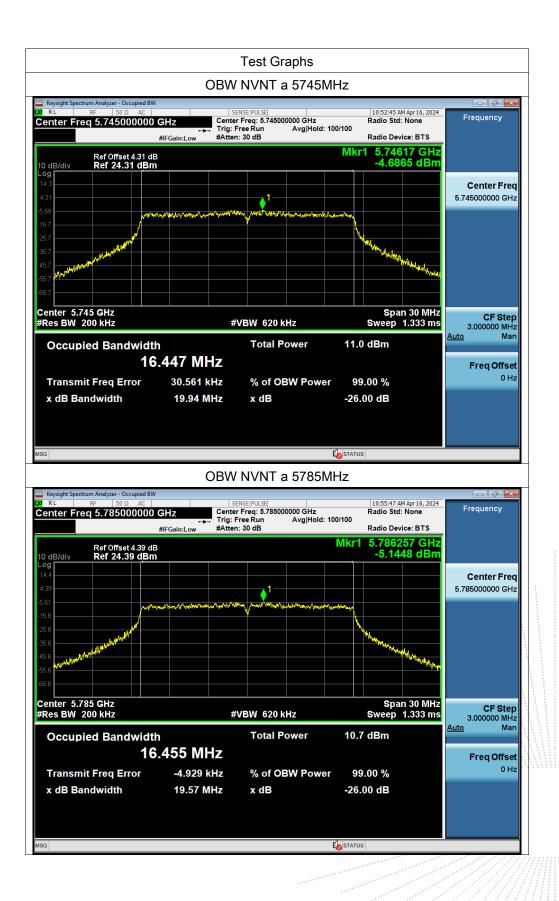
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		vidth NVNT ax40 5	5795MHz	
Keysight Spectrum Analyzer - Occupied B ¹ RL RF 50 Ω AC		SENSE:PULSE	12:42:27 PM Apr 16, 2024	
enter Freq 5.79500000) GHz Cent	er Freq: 5.795000000 GHz Free Run Avg Hold: 100	Radio Std: None	Frequency
,		en: 30 dB	Radio Device: BTS	
Ref Offset 4.39 d	В		Mkr3 5.813996 GHz	
0 dB/div Ref 24.39 dBr			-16.781 dBm	
14.4				Center Free
4.39			. 1	5.795000000 GH
5.61		energies a succed without a Mine Ana Martine In Analysis	3	
13.0	a na manana ana ana ana ana ana ana ana	and have so have been also also also also also also also also		
35.6				
45.6				
55.6				
65.6				
Center 5.795 GHz			Span 60 MHz	05.01
Res BW 100 kHz		#VBW 300 kHz	Sweep 6 ms	CF Ste 6.000000 MH
Occupied Bandwid	th	Total Power	11.0 dBm	<u>Auto</u> Ma
	 7.774 MHz			Er a Off
				Freq Offse
Transmit Freq Error	-16.811 kHz	% of OBW Power	99.00 %	011
x dB Bandwidth	38.02 MHz	x dB	-6.00 dB	
SG		Г	STATUS	
	-6dB Bandw	vidth NVNT ax80 5	5775MHz	
Keysight Spectrum Analyzer - Occupied B ¹ RL RF 50 Ω AC		SENSE:PULSE	12:53:13 PM Apr 16, 2024	&
Center Freq 5.77500000) GHz Cent	er Freq: 5.775000000 GHz Free Run Avg Hold: 100	Radio Std: None	Frequency
		en: 30 dB	Radio Device: BTS	
Ref Offset 4.38 d	B		Mkr3 5.814092 GHz	
0 dB/div Ref 24.38 dBr			-24.162 dBm	
14.4				Center Free
4.38				5.775000000 GH
5.62				
	han a sa s	etalaan _{pele} nduk dalam dalam bertek kerenduk dalam be	1 44444	
35.6				
45.6				
55.6			Www.manue	
65.6				
Center 5.775 GHz			Span 120 MHz	
Res BW 100 kHz		#VBW 300 kHz	Sweep 12 ms	12.000000 MH
	th	Total Power	10.8 dBm	<u>Auto</u> Mar
Occupied Bandwid				
Occupied Bandwid	7 371 MHz			Freq Offse
77	7.371 MHz	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		0.11
77 Transmit Freq Error	33.786 kHz	% of OBW Power	99.00 %	0 H
77		% of OBW Power x dB	99.00 % -6.00 dB	он
77 Transmit Freq Error	33.786 kHz			0 H
77 Transmit Freq Error	33.786 kHz			0 H
77 Transmit Freq Error	33.786 kHz	x dB		0 H

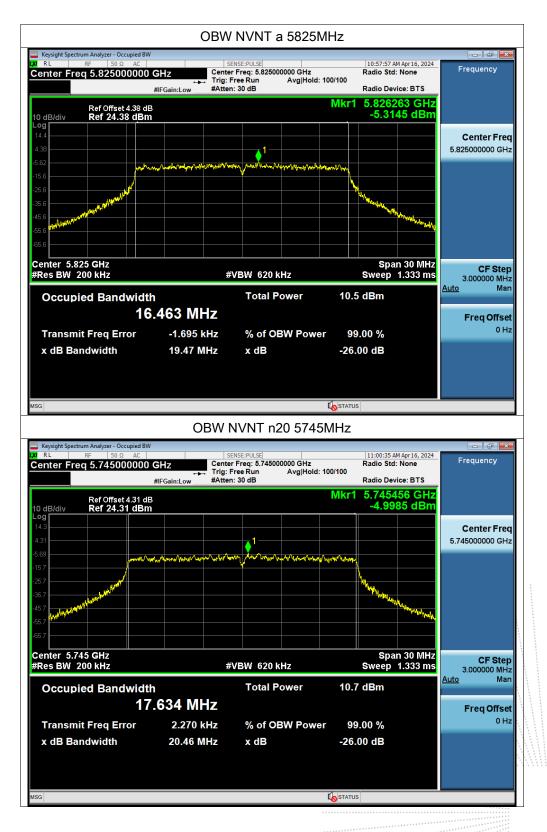
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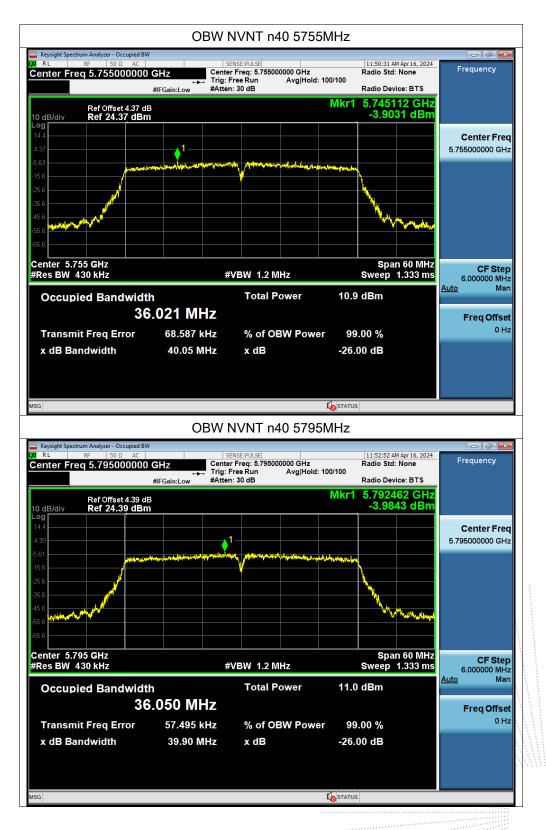


	OBW	NVNT n20 5785	δMHz	
Keysight Spectrum Analyzer - Occupied BW				- 6 💌
α RL RF 50 Ω AC Center Freq 5.785000000	CHZ Cente	ENSE:PULSE Freq: 5.785000000 GHz	11:11:53 AM Ap Radio Std: No	
	Trig:	Free Run Avg Hold: n: 30 dB		
		n: 50 dB	Mkr1 5.783752	
Ref Offset 4.39 dB IO dB/div Ref 24.39 dBm			-4.7677	
-og				
14.4				Center Fred
4.39				5.785000000 GHz
15.6	where we have a start of the st	and a grant the second second second	here where	
25.6			h	
35.6			"May alter	
45.6			Junior Contraction	When
55.6				
65.6				
Center 5.785 GHz			Span 3	0 MHz
Res BW 200 kHz	#	VBW 620 kHz	Sweep 1.3	
Occurried Bandus H		Total Power	10.9 dBm	Auto Mar
Occupied Bandwidth		Total Power	10.9 UBIII	
17	.649 MHz			Freq Offse
Transmit Freq Error	-11.283 kHz	% of OBW Powe	r 99.00 %	0 H:
x dB Bandwidth	20.80 MHz	x dB	-26.00 dB	
SG				
			STATUS	
			v	
	OBW	NVNT n20 5825	v	
Keysight Spectrum Analyzer - Occupied BW		NVNT n20 5825	v	16 2024
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC	GHz Cente	ENSE:PULSE Freq: 5.825000000 GHz	II:13:57 AM Ap Radio Std: No	r 16, 2024
Reysight Spectrum Analyzer - Occupied BW RL RF 50 Q AC Center Freq 5.825000000	GHz Cente Trig:	ENSE:PULSE	II:13:57 AM Ap Radio Std: No	ne Frequency
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 5.825000000 (GHz Cente #IFGain:Low #Atte	ENSE:PULSE er Freq: 5.825000000 GHz Free Run Avg Hold:	11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755	ne Frequency BTS GHZ
Reysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 5.825000000 Ref Offset 4.38 dB 0 dB/div Ref 24.38 dB	GHz Cente #IFGain:Low #Atte	ENSE:PULSE er Freq: 5.825000000 GHz Free Run Avg Hold:	11:13:57 AM Ap Radio Std: No Radio Device:	ne Frequency BTS GHZ
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 5.825000000 Ref Offset 4.38 dB 0 dB/div Ref 24.38 dBm	GHz Cente #IFGain:Low #Atte	ENSE:PULSE er Freq: 5.825000000 GHz Free Run Avg Hold:	11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755	Frequency BTS GHZ dBm
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 5.825000000 Ref Offset 4.38 dB 0 dB/div Ref Offset 4.38 dBm 0 g 14.4 14.4	GHz Cente #IFGain:Low #Atte	ENSE:PULSE er Freq: 5.825000000 GHz Free Run Avg Hold:	11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755	Frequency BTS GHZ dBm Center Freq
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC enter Freq 5.825000000 Ref Offset 4.38 dB O dB/div Ref 24.38 dBm og Ac Ac	GHz ← Cente #IFGain:Low #Atte	ENSE:PULSE rr Freq: 5.825000000 GHz Free Run Avg Hold: 1	11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755 -4.8786	Frequency BTS GHZ dBm Center Freq
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC center Freq 5.825000000 Ref Offset 4.38 dB O dB/div Ref 24.38 dB B 0 dB/div Ref 24.38 dB B 0 g 4.38 4.38 4.38	GHz Cente #IFGain:Low #Atte	ENSE:PULSE rr Freq: 5.825000000 GHz Free Run Avg Hold: 1	11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755	Frequency BTS GHZ dBm Center Freq
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 5.825000000 Ref Offset 4.38 dB O dB/div Ref 24.38 dBm °g 4 4 62 4 4 62 4 4	GHz ← Cente #IFGain:Low #Atte	ENSE:PULSE rr Freq: 5.825000000 GHz Free Run Avg Hold: 1	11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755 -4.8786	Frequency BTS GHZ dBm Center Freq
Reysight Spectrum Analyzer - Occupied BW RL RF 50 Q AC Senter Freq 5.825000000 (Ref Offset 4.38 dB B 0 dB/div Ref 24.38 dBm 9 14.4	GHz ← Cente #IFGain:Low #Atte	ENSE:PULSE rr Freq: 5.825000000 GHz Free Run Avg Hold: 1	11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755 -4.8786	Frequency BTS GHZ dBm Center Freq
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 5.825000000 (Ref Offset 4.38 dB B 0 dB/div Ref 24.38 dBm B 562 4.38 B 562 4.38 B 562 4.38 C 562 4.38 C 563 4.38 C 564 4.38 C 565 4.38 C	GHz ← Cente #IFGain:Low #Atte	ENSE:PULSE rr Freq: 5.825000000 GHz Free Run Avg Hold: 1	11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755 -4.8786	Frequency BTS GHZ dBm Center Freq
Reysight Spectrum Analyzer - Occupied BW RL RF 50 Q AC Center Freq 5.825000000 (Ref Offset 4.38 dB B 0 dB/div Ref 24.38 dBm B 14.4	GHz ← Cente #IFGain:Low #Atte	ENSE:PULSE rr Freq: 5.825000000 GHz Free Run Avg Hold: 1	11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755 -4.8786	Frequency BTS GHZ dBm Center Freq
Reysight Spectrum Analyzer - Occupied BW RL RF 50 Q AC Center Freq 5.825000000 (Ref Offset 4.38 dB B 0 dB/div Ref 24.38 dBm B 14.4	GHz ← Cente #IFGain:Low #Atte	ENSE:PULSE rr Freq: 5.825000000 GHz Free Run Avg Hold: 1	11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755 -4.8786	Frequency BTS GHZ dBm Center Freq
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 5.825000000 (Center Freq 5.825000000 (Center Freq 5.825000000 (Ref Offset 4.38 dBm Center Freq 5.825000000 (Center 5.825000000 (Ref Offset 4.38 dBm Center 5.825 GHz	GHz Cente Trig: #IFGain:Low #Atte	ENSE:PULSE rr Freq: 5.825000000 GHz Free Run Avg Hold: 1 1 1 1 1 1 1 1 1 1 1 1 1	SMHz 11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755 -4.8786	Frequency BTS GHz dBm Center Frequency 5.825000000 GHz Manual Manual O MHz CE Ster
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 5.825000000 (Ref Offset 4.38 dB B 0 dB/div Ref 24.38 dBm B 562 4.38 B 562 4.38 B 562 4.38 C 562 4.38 C 563 4.38 C 564 4.38 C 565 4.38 C	GHz Cente Trig: #IFGain:Low #Atte	ENSE:PULSE rr Freq: 5.825000000 GHz Free Run Avg Hold: 1	Mkr1 5.823755 -4.8786	me Frequency BTS GHz GHZ Center Frequency 5.825000000 GHz Manual Manual Manual CF Step 33 ms
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 5.825000000 (Ref Offset 4.38 dB B 0 dB/div Ref Offset 4.38 dB B 14.4	GHZ #IFGain:Low Criet: #Atte	ENSE:PULSE rr Freq: 5.825000000 GHz Free Run Avg Hold: 1 1 1 1 1 1 1 1 1 1 1 1 1	SMHz 11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755 -4.8786	Frequency BTS GHz Image: Conter Frequency 5.825000000 GHz 5.825000000 GHz 133 ms
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 5.825000000 (Ref Offset 4.38 dB B 0 dB/div Ref Offset 4.38 dB C 14.4 A A A 562 A A A 14.4 A A A 562 A A A 562 A A A 563 A A A 564 A A A 565 A A A 566 A A A 567 A A A 568 A A A 569 A A A 560 A A A 561 A A A 562 B A A 563 B B A 564 A A A </td <td>GHZ CENE #IFGain:Low #Atte</td> <td>ENSE:PULSE rr Freq: 5.825000000 GHz Free Run Avg Hold: 1 1 1 W M M M M M M M M M M M M M M M M M M M</td> <td>SMHz 11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755 -4.8786</td> <td>r16, 2024 Frequency ne Frequency BTS GHz GBm Center Frequency 5.825000000 GHz 5.825000000 GHz 9 MHz 0 MHz 3.3 ms Auto</td>	GHZ CENE #IFGain:Low #Atte	ENSE:PULSE rr Freq: 5.825000000 GHz Free Run Avg Hold: 1 1 1 W M M M M M M M M M M M M M M M M M M M	SMHz 11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755 -4.8786	r16, 2024 Frequency ne Frequency BTS GHz GBm Center Frequency 5.825000000 GHz 5.825000000 GHz 9 MHz 0 MHz 3.3 ms Auto
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 5.825000000 Ref Offset 4.38 dB BB 0 dB/div Ref 24.33 dBm BB 0 g	GHZ Cente #IFGain:Low #Atte	ENSE:PULSE rr Free Run Avg Hold: 1 1 4 VBW 620 kHz Total Power	5MHz 11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755 -4.8786 Mkr1 5.923755 -4.8786 Mkr1 5.823755 -4.8786 Mkr1 5.823755 -4.87866 -4.8786 -4.8786 -4.8786 -4.87866 -4.878	r16, 2024 Frequency ne Frequency BTS GHz GHZ Center Freq 5.825000000 GHz Maxway Saparation of the second
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 5.825000000 (Ref Offset 4.38 dB B 0 dB/div Ref Offset 4.38 dB C 14.4 A A A 562 A A A 14.4 A A A 562 A A A 562 A A A 563 A A A 564 A A A 565 A A A 566 A A A 567 A A A 568 A A A 569 A A A 560 A A A 561 A A A 562 B A A 563 B B A 564 A A A </td <td>GHZ CENE #IFGain:Low #Atte</td> <td>ENSE:PULSE rr Freq: 5.825000000 GHz Free Run Avg Hold: 1 1 1 W M M M M M M M M M M M M M M M M M M M</td> <td>5MHz 11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755 -4.8786 Mkr1 5.823755 -4.87866 -4.8786 -4.8786 -4.8786 -4.87866 -4.878</td> <td>r16, 2024 Frequency ne Frequency BTS GHz GHZ Center Frequency 5.825000000 GHz 5.825000000 GHz Maxwaya Saparation of the second seco</td>	GHZ CENE #IFGain:Low #Atte	ENSE:PULSE rr Freq: 5.825000000 GHz Free Run Avg Hold: 1 1 1 W M M M M M M M M M M M M M M M M M M M	5MHz 11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755 -4.8786 Mkr1 5.823755 -4.87866 -4.8786 -4.8786 -4.8786 -4.87866 -4.878	r16, 2024 Frequency ne Frequency BTS GHz GHZ Center Frequency 5.825000000 GHz 5.825000000 GHz Maxwaya Saparation of the second seco
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 5.825000000 Ref Offset 4.38 dB BB 0 dB/div Ref 24.33 dBm BB 0 g	GHZ Cente #IFGain:Low #Atte	ENSE:PULSE rr Free Run Avg Hold: 1 1 4 VBW 620 kHz Total Power	5MHz 11:13:57 AM Ap Radio Std: No Radio Device: Mkr1 5.823755 -4.8786 Mkr1 5.923755 -4.8786 Mkr1 5.823755 -4.8786 Mkr1 5.823755 -4.87866 -4.8786 -4.8786 -4.8786 -4.87866 -4.878	Frequency BTS GHz Image: Conter Frequency 5.825000000 GHz 5.825000000 GHz 133 ms
Keysight Spectrum Analyzer - Occupied BW RL RF S0 Ω AC Center Freq 5.825000000 Ref Offset 4.38 dB GB 0 dB/div Ref Offset 4.38 dB B 0 g	GHZ #IFGain:Low Center Trig: #Atte	ENSE:PULSE Tr Freq: 5.825000000 GHz Free Run Avg Hold: 1 1 1 WBW 620 kHz Total Power % of OBW Powe	SMHz 100/100 Radio Std: No Radio Device: Mkr1 5.823755 -4.8786 Mkr1 5.823755 -4.8786	r16, 2024 Frequency ne Frequency BTS GHz GHZ Center Freq 5.825000000 GHz Maxway Saparation of the second
Keysight Spectrum Analyzer - Occupied BW Rt Ref 50 Ω AC Center Freq 5.825000000 (Ref Offset 4.38 dB B 0 dB/div Ref 24.38 dB B 0 g	GHZ #IFGain:Low Center Trig: #Atte	ENSE:PULSE Tr Freq: 5.825000000 GHz Free Run Avg Hold: 1 1 1 WBW 620 kHz Total Power % of OBW Powe	SMHz 100/100 Radio Std: No Radio Device: Mkr1 5.823755 -4.8786 Mkr1 5.823755 -4.8786	r16, 2024 Frequency ne Frequency BTS GHz GHZ Center Freq 5.825000000 GHz 5.825000000 GHz MANNANA South and a state of the state of
Keysight Spectrum Analyzer - Occupied BW Rt Ref 50 Ω AC center Freq 5.825000000 (Ref Offset 4.38 dB B 0 dB/div Ref 24.38 dB B 0 g	GHZ #IFGain:Low Center Trig: #Atte	ENSE:PULSE Tr Freq: 5.825000000 GHz Free Run Avg Hold: 1 1 1 WBW 620 kHz Total Power % of OBW Powe	SMHz 100/100 Radio Std: No Radio Device: Mkr1 5.823755 -4.8786 Mkr1 5.823755 -4.8786	r16, 2024 Frequency ne Frequency BTS GHz GHZ Center Freq 5.825000000 GHz Maxway Saparation of the second

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	OBW N	VNT ac20 5	5745MHz		
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC				11,24,04 614 4-446 200	
RL RF 50 Ω AC Center Freq 5.745000000 GH	Z Center	ISE:PULSE Freq: 5.745000000 G		11:24:04 AM Apr 16, 2024 Radio Std: None	Frequency
	Gain:Low #Atten:		Hold: 100/100	Radio Device: BTS	
			Mkr1	5.737674 GH	
Ref Offset 4.31 dB 0 dB/div Ref 24.31 dBm				-5.4487 dBn	n
og 14.3					Contor Ero
4.31 1 -					Center Fre 5.745000000 GH
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15.7	prosent some of the provided o		an lotten a strend for the		
25.7				All the second s	
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				and the second s	
55.7					
55.7					
enter 5.745 GHz				Span 30 MH:	
Res BW 200 kHz	#\	/BW 620 kHz		Sweep 1.333 m	3.000000 MH
Occupied Bandwidth		Total Power	10.9	dBm	Auto Ma
	05 MHz				Eren Offer
					Freq Offse 0 ⊢
	-20.499 kHz	% of OBW F		0.00 %	UP
x dB Bandwidth	21.49 MHz	x dB	-26.	00 dB	
			,		
G				3	
	OBW N	VNT ac20 క	5785MHz		
Karrisht Casatara And					
Reysight Spectrum Analyzer - Occupied BW					
RL RF 50 Ω AC		ISE:PULSE		11:30:31 AM Apr16, 2024	
RL RF 50 Ω AC enter Freq 5.785000000 GH	Z Center	Freq: 5.785000000 G ee Run Avg		Radio Std: None	1
RL RF 50 Ω AC enter Freq 5.785000000 GH	Z Center	Freq: 5.785000000 G ee Run Avg	Hz Hold: 100/100	Radio Std: None Radio Device: BTS	Frequency
RL RF 50.0 AC enter Freq 5.785000000 GF #IF Ref Offset 4.39 dB	Z Center	Freq: 5.785000000 G ee Run Avg	Hz Hold: 100/100	Radio Std: None Radio Device: BTS 5.783746 GH	Frequency
RL RF 50 Ω AC enter Freq 5.785000000 GF #IF Ref Offset 4.39 dB 0 dB/div Ref 24.39 dBm	Z Center	Freq: 5.785000000 G ee Run Avg	Hz Hold: 100/100	Radio Std: None Radio Device: BTS	Frequency
RL RF 50 Ω AC enter Freq 5.785000000 GF #IF Ref Offset 4.39 dB 0 dB/div Ref 24.39 dBm og 4.4 4 4	Z Center	Freq: 5.785000000 G ee Run Avg	Hz Hold: 100/100	Radio Std: None Radio Device: BTS 5.783746 GH	Frequency Center Fre
RL RF 50 Ω AC enter Freq 5.785000000 GF #IF Ref Offset 4.39 dB 0 dB/div Ref Offset 4.39 dB 0 dB/div Ref 24.39 dB 0 dB 139 139 139	Iz Center Gain:Low #Atten:	Freq: 5.785000000 G ee Run Avg 30 dB	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH	Frequency Center Fre
RL RF 50 Q AC enter Freq 5.785000000 GF #IF Ref Offset 4.39 dB 0 dB/div Ref 24.39 dBm 9 139 61	Iz Center Gain:Low #Atten:	Freq: 5.785000000 G ee Run Avg	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH	Frequency Center Fre
RL RF 50 Ω AC enter Freq 5.785000000 GF #IF Ref Offset 4.39 dB dB/div Ref 24.39 dB 0 dB/div Ref 24.39 dB dB 139 61	Iz Center Gain:Low #Atten:	Freq: 5.785000000 G ee Run Avg 30 dB	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH	Frequency Center Fre
RL RF 50 Ω AC enter Freq 5.785000000 GF #IF 0 B/div Ref Offset 4.39 dB 0 B/div Ref 24.39 dBm 9	Iz Center Gain:Low #Atten:	Freq: 5.785000000 G ee Run Avg 30 dB	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH: -5.8525 dBn	Frequency Center Fre
RL RF S0 0. AC enter Freq 5.785000000 GF #IF 0 dB/div Ref Offset 4.39 dB 14.4 A 56 A 56 A 56 A 56 A 56 A 56 A	Iz Center Gain:Low #Atten:	Freq: 5.785000000 G ee Run Avg 30 dB	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH	Frequency
RL RF 50 Q AC enter Freq 5.785000000 GF #FF 0 dB/div Ref Offset 4.39 dB Ref 24.39 dBm 14.4 1.39 5.61 5.6 5.6 5.6 5.6	Iz Center Gain:Low #Atten:	Freq: 5.785000000 G ee Run Avg 30 dB	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH: -5.8525 dBn	Frequency Center Fre
RL RF S0 Q. AC enter Freq 5.785000000 GF #IF 0 dB/div Ref Offset 4.39 dB 14.4	Iz Center Gain:Low #Atten:	Freq: 5.785000000 G ee Run Avg 30 dB	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH: -5.8525 dBn	Frequency Center Fre
RL RF 50 Ω AC enter Freq 5.785000000 GF #IF 0 B/div Ref Offset 4.39 dB 0 dB/div Ref 24.39 dB 0 d G 56 G 56 G 56 G 56 G 56 G 61 G 62 G 64 G 65 G 66 G 67 G 68 G 69 G 60 G 61 G 62 G 63 G 64 G 65 G 66 G 66 G 66 G 66 G 66 G 67 G 68 G 69 G 60 G <	Iz Center Gain:Low #Atten:	Freq: 5.785000000 G ee Run Avg 30 dB	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH; -5.8525 dBn	Center Fre 5.785000000 GH
RL RF 50 Ω AC enter Freq 5.785000000 GF #IF 0 dB/div Ref Offset 4.39 dB 0 dB/div Ref 24.39 dB 0 dB/div Ref 24.	Iz Center Gain:Low #Atten: #Atten:	Freq: 5.785000000 G ee Run Avg 30 dB	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH: -5.8525 dBn	Center Fre 5.785000000 GH
enter Freq 5.785000000 GH	Iz Center Gain:Low #Atten: #Atten:	Freq: 5.78500000 G ee Run Avg 30 dB	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH; -5.8525 dBn Span 30 MH; Sweep 1.333 m;	 Frequency Center Fre 5.78500000 GH 5.78500000 GH 5.78500000 GH
RL RF S0 0. AC enter Freq 5.785000000 GF #F 0 dB/div Ref Offset 4.39 dB 4.4 A 4.4 A 5.6 A 5.7 A 5.8 B 5.9 B 61 B 61 B 61 B 62 B 63 B 64 B 65 B 64 B 65 B 64 B 65 B B 66 B B 67 B B B	Iz Center Gain:Low #Atten: برایاله این	Freq: 5.78500000 C ee Run Avg 30 dB	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH; -5.8525 dBn	 Frequency Center Fre 5.78500000 GH 5.78500000 GH 5.78500000 GH
RL RF S0 0. AC enter Freq 5.785000000 GF #F 0 dB/div Ref Offset 4.39 dB 4.4 A 4.4 A 5.6 A 5.7 A 5.8 B 5.9 B 61 B 61 B 61 B 62 B 63 B 64 B 65 B 64 B 65 B 64 B 65 B B 66 B B 67 B B B	Iz Center Gain:Low #Atten: #Atten:	Freq: 5.78500000 G ee Run Avg 30 dB	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH; -5.8525 dBn Span 30 MH; Sweep 1.333 m;	Frequency Center Fre 5.785000000 GF 3.00000 MF Auto Ma
RL RF 50 p. AC enter Freq 5.785000000 GF #F 0 dB/div Ref Offset 4.39 dB 0 g	Iz Center Gain:Low #Atten: برایاله این	Freq: 5.78500000 G ee Run Avg 30 dB	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH; -5.8525 dBn Span 30 MH; Sweep 1.333 m;	Frequency Center Fre 5.785000000 GF 3.00000 MF Auto Ma
RL RF S0 0. AC enter Freq 5.785000000 GF #F 0 dB/div Ref Offset 4.39 dB 0 dB/div Ref 24.39 dB </td <td>Az Gain:Low Center Trig: Fr #Atten: (Atten:</td> <td>/BW 620 kHz Total Power % of OBW F</td> <td>Hz Hold: 100/100 Mkr1</td> <td>Radio Std: None Radio Device: BTS 5.783746 GH; -5.8525 dBn Span 30 MH; Sweep 1.333 m; 5 dBm</td> <td>Frequency Center Fre 5.785000000 GF 3.00000 MF Auto Ma</td>	Az Gain:Low Center Trig: Fr #Atten: (Atten:	/BW 620 kHz Total Power % of OBW F	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH; -5.8525 dBn Span 30 MH; Sweep 1.333 m; 5 dBm	Frequency Center Fre 5.785000000 GF 3.00000 MF Auto Ma
RL RF 50 p. AC enter Freq 5.785000000 GF #F 0 dB/div Ref Offset 4.39 dB 0 g	Az Center Trig: Fr #Atten: # # # # #Atten: #Atten: #Atten: #Atten: #Atten: #Atten: #Atten: #Atten: #Atten: #At	/EW 620 kHz Total Power	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH; -5.8525 dBn Span 30 MH; Sweep 1.333 m; 5 dBm	Frequency Center Fre 5.785000000 GH Auto Ma
RL RF S0 0. AC enter Freq 5.785000000 GF #F 0 dB/div Ref Offset 4.39 dB 0 dB/div Ref 24.39 dB </td <td>Az Gain:Low Center Trig: Fr #Atten: (Atten:</td> <td>/BW 620 kHz Total Power % of OBW F</td> <td>Hz Hold: 100/100 Mkr1</td> <td>Radio Std: None Radio Device: BTS 5.783746 GH; -5.8525 dBn Span 30 MH; Sweep 1.333 m; 5 dBm</td> <td>Frequency Center Fre 5.785000000 GF 3.00000 MF Auto Ma</td>	Az Gain:Low Center Trig: Fr #Atten: (Atten:	/BW 620 kHz Total Power % of OBW F	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH; -5.8525 dBn Span 30 MH; Sweep 1.333 m; 5 dBm	Frequency Center Fre 5.785000000 GF 3.00000 MF Auto Ma
RL RF S0 0. AC enter Freq 5.785000000 GF #F 0 dB/div Ref Offset 4.39 dB 0 dB/div Ref 24.39 dB </td <td>Az Gain:Low Center Trig: Fr #Atten: (Atten:</td> <td>/BW 620 kHz Total Power % of OBW F</td> <td>Hz Hold: 100/100 Mkr1</td> <td>Radio Std: None Radio Device: BTS 5.783746 GH; -5.8525 dBn Span 30 MH; Sweep 1.333 m; 5 dBm</td> <td> Frequency Center Fre 5.78500000 GH 5.78500000 GH 5.78500000 GH </td>	Az Gain:Low Center Trig: Fr #Atten: (Atten:	/BW 620 kHz Total Power % of OBW F	Hz Hold: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.783746 GH; -5.8525 dBn Span 30 MH; Sweep 1.333 m; 5 dBm	 Frequency Center Fre 5.78500000 GH 5.78500000 GH 5.78500000 GH

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	OBW	NVNT ac20 582	5MHz	
Keysight Spectrum Analyzer - Occupied BW		CENCE-DUIL CE		
RL RF 50 Ω AC Center Freq 5.825000000	GHz Cent	sense:pulse er Freq: 5.825000000 GHz	11:34:29 AM Apr 16, 20 Radio Std: None	Frequency
	Ling:	Free Run Avg Hold: en: 30 dB	100/100 Radio Device: BTS	
			Mkr1 5.831288 GF	
0 dB/div Ref Offset 4.38 dl Ref 24.38 dBn			-5.4849 dBi	
og				
14.4				Center Free
5.62				5.825000000 GH
15.6	here and a state of the second s	way para markage and the	1. m. normalia	
25.6			<u></u>	
35.6			The second	
45.6 MIN				
55.6				¥
55.6				
Center 5.825 GHz			Span 30 Mł	17
Res BW 200 kHz		#VBW 620 kHz	Sweep 1.333 n	
Occupied Bandwidt	h	Total Power	11.0 dBm	Auto Mar
11	.748 WHZ			Freq Offse
Transmit Freq Error	-10.361 kHz	% of OBW Powe	r 99.00 %	0 Н
x dB Bandwidth	21.53 MHz	x dB	-26.00 dB	
SG			I STATUS	
		NVNT ac40 575		
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC		SENSE:PULSE	11:59:14 AM Apr 16, 20	24
enter Freq 5.755000000	GHz Cent	er Freq: 5.755000000 GHz Free Run Avg Hold:	Radio Std: None	Frequency
	#IFGain:Low #Atte	en: 30 dB	Radio Device: BTS	_
Ref Offset 4.37 dl	in outlieou	en: 30 dB	Mkr1 5.74366 GF	
	8	n: 30 dB		
0 dB/div Ref 24.37 dBn	8	n: 30 dB	Mkr1 5.74366 GF	m
0 dB/div Ref 24.37 dBn .og	8	en: 30 dB	Mkr1 5.74366 GF	m Center Free
0 dB/div Ref 24.37 dBn .og 14.4 4.37	8		Mkr1 5.74366 GF	m Center Free
0 dB/div Ref 24.37 dBn .og .4.4 .37 .63	8		Mkr1 5.74366 GF	m Center Free
0 dB/div Ref 24.37 dBn .og 14.4 4.37 5.63 15.6	8		Mkr1 5.74366 GF	m Center Free
0 dB/div Ref 24.37 dBn .og 4.37 5.63 166 25.6 25.6	8		Mkr1 5.74366 GF	m Center Free
0 dB/div Ref 24.37 dBn .og 4.47 5.63 5.75 5	8		Mkr1 5.74366 GH -4.1862 dB	Center Free 5.755000000 GH
0 dB/div Ref 24.37 dBn 0 d 0 d 0 dB/div Ref 24.37 dBn 14.4 14.37 15.63 1	8		Mkr1 5.74366 GF	Center Free 5.755000000 GH
0 dB/div Ref 24.37 dBn 0 d 0 d 0 dB/div Ref 24.37 dBn 14.4 14.37 15.63 1	8		Mkr1 5.74366 GH -4.1862 dB	Center Free 5.755000000 GH
0 dB/div Ref 24.37 dBn .og .og .og .og .og .og .og .og			Mkr1 5.74366 GH -4.1862 dB	TZ CE Ster
0 dB/div Ref 24.37 dBn .og .4.37 .5.63 .5.755 GHz		۲۰۰۱ کی میں میں میں میں میں میں میں میں میں می	Mkr1 5.74366 GH -4.1862 dB	12 142 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10
0 dB/div Ref 24.37 dBn .og .og .og .og .og .og .og .og		#VBW 1.2 MHz	Mkr1 5.74366 GH -4.1862 dB	TZ CE Ster
0 dB/div Ref 24.37 dBn	B 1 		Mkr1 5.74366 GH -4.1862 dB 	12 142 15 15 15 15 15 15 15 15 15 15
0 dB/div Ref 24.37 dBn 0 dB/d	h 5.362 MHz	When the second	Mkr1 5.74366 GH -4.1862 dB	12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
0 dB/div Ref 24.37 dBn 0 dB/d	B 1 	#VBW 1.2 MHz	Mkr1 5.74366 GH -4.1862 dB	12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
0 dB/div Ref 24.37 dBn 0 dB/d	h 5.362 MHz	When the second	Mkr1 5.74366 GH -4.1862 dB	12 142 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10
0 dB/div Ref 24.37 dBn 0 dB/d	^B n 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	#VBW 1.2 MHz Total Power % of OBW Powe	Mkr1 5.74366 GH -4.1862 dB 	12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
o dB/div Ref 24.37 dBn og dB/div Ref 24.37 dBn og complexity	^B n 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	#VBW 1.2 MHz Total Power % of OBW Powe	Mkr1 5.74366 GH -4.1862 dB 	12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
0 dB/div Ref 24.37 dBn	^B n 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	#VBW 1.2 MHz Total Power % of OBW Powe	Mkr1 5.74366 GH -4.1862 dB 	12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15

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	OBW	NVNT ac40 57	795MHz		
Keysight Spectrum Analyzer - Occupied E	3W				
RL RF 50 Ω AC Center Freq 5.79500000	0 GHz Cen	sense:PULSE Iter Freq: 5.795000000 GH:		12:01:36 PM Apr16, 2024 Radio Std: None	Frequency
	Ling	j:FreeRun Avg∣H∉ ten:30 dB	old: 100/100	Radio Device: BTS	
	an Gameon and			5.806706 GHz	ī
Ref Offset 4.39 0 0 dB/div Ref 24.39 dB				-5.5896 dBm	
.og					
4.39					Center Free
4.39			√ ' ──		5.795000000 GH
15.6	ution and a start of the start and a start was	while Warman with the	and the end-openation from		
25.6				<u> </u>	
35.6					
45.6				- Martin	
55.6				A. ALMANIA	
65.6					
Center 5.795 GHz				Span 60 MHz	
Res BW 430 kHz		#VBW 1.2 MHz		Sweep 1.333 ms	
Occupied Bandwid	th	Total Power	10.5	dBm	<u>Auto</u> Mar
Occupied Bandwid		Total Fower	10.5		
3	6.386 MHz				Freq Offse
Transmit Freq Error	-18.953 kHz	% of OBW Po	wer 99.	00 %	он
x dB Bandwidth	40.92 MHz	x dB	-26.0	0 dB	
SG			STATUS		
SG					
		NVNT ac80 57			
L				12:49:33 DM Anr 16 2024	
Keysight Spectrum Analyzer - Occupied E RL RF 50 Ω AC	0 GHz Cen	SENSE:PULSE	775MHz	12:49:33 PM Apr 16, 2024 Radio Std: None	
	3W 0 GHz Cen ₊₊₊ Trig	SENSE:PULSE	775MHz z old: 100/100		
Keysight Spectrum Analyzer - Occupied E RL RF 50 Ω AC Center Freq 5.77500000	0 GHz Cen #IFGain:Low #Att	SENSE:PULSE Iter Freq: 5.775000000 GH: j: Free Run Avg H	775MHz ^z old: 100/100	Radio Std: None Radio Device: BTS 5.765916 GHz	Frequency
keysight Spectrum Analyzer - Occupied RL RF 50 Ω AC Ref Offset 4.38 - 0 dB/div Ref 24.38 dB	0 GHz Cer #IFGain:Low #Atr	SENSE:PULSE Iter Freq: 5.775000000 GH: j: Free Run Avg H	775MHz ^z old: 100/100	Radio Std: None Radio Device: BTS	Frequency
Keysight Spectrum Analyzer - Occupied E RL RF 50 Q AC Center Freq 5.77500000 Ref Offset 4.38	0 GHz Cer #IFGain:Low #Atr	SENSE:PULSE Iter Freq: 5.775000000 GH: j: Free Run Avg H	775MHz ^z old: 100/100	Radio Std: None Radio Device: BTS 5.765916 GHz	Frequency
Keysight Spectrum Analyzer - Occupied I RL RF 50 Ω AC Center Freq 5.77500000 Ref Offset 4.38 d O dB/div Ref Offset 4.38 d og 14.4 4	0 GHz Cer #IFGain:Low #Atr	SENSE:PULSE Iter Freq: 5.775000000 GH: j: Free Run Avg H	775MHz ^z old: 100/100	Radio Std: None Radio Device: BTS 5.765916 GHz	Frequency Center Free
Keysight Spectrum Analyzer - Occupied I RL RF 50 Ω AC Senter Freq 5.77500000 Ref Offset 4.38 O dB/div Ref 24.38 dB og 4.4 4.38 62	B B B B M AB M AB M AB M AB M AB M AB M AB AB AB AB AB AB AB AB AB AB	SENSE:PULSE Iter Freq: 5.77500000 GH; J: Free Run Avg H ten: 30 dB	775MHz ^z old: 100/100	Radio Std: None Radio Device: BTS 5.765916 GHz	Frequency Center Free
Keysight Spectrum Analyzer - Occupied E RL RF 50 Ω AC Center Freq 5.77500000 Ref Offset 4.38 d O dB/div Ref Offset 4.38 d o g 4 4 4 4 4	B m B M B M A B M A A A A A A A A A A A A A	SENSE:PULSE Iter Freq: 5.775000000 GH: j: Free Run Avg H	775MHz ^z old: 100/100	Radio Std: None Radio Device: BTS 5.765916 GHz	Frequency Center Free
Keysight Spectrum Analyzer - Occupied RL RF 50 Ω AC Center Freq 5.77500000 Ref Offset 4.38 d O dB/div Ref 24.38 dB og 4 4 4.38 60 61/10 f f f f f f f f f f f f f f f f f f f	B B B B M AB M AB M AB M AB M AB M AB M AB AB AB AB AB AB AB AB AB AB	SENSE:PULSE Iter Freq: 5.77500000 GH; J: Free Run Avg H ten: 30 dB	775MHz ^z old: 100/100	Radio Std: None Radio Device: BTS 5.765916 GHz	Frequency Center Free
Keysight Spectrum Analyzer - Occupied E RL RF 50 Ω AC Center Freq 5.77500000 Ref Offset 4.38 d O dB/div Ref 24.38 dB og 4 4 4 62 4 4 4	B B B B M AB M AB M AB M AB M AB M AB M AB AB AB AB AB AB AB AB AB AB	SENSE:PULSE Iter Freq: 5.77500000 GH; J: Free Run Avg H ten: 30 dB	775MHz ^z old: 100/100	Radio Std: None Radio Device: BTS 5.765916 GHz	Frequency Center Freq
Keysight Spectrum Analyzer - Occupied E RL RF 50 R AC Center Freq 5.77500000 Ref Offset 4.38 d O dB/div Ref 24.38 dB 0 g 14 4 14 562 14 14 14 562 14 14 14 562 14 14 14	B B B B M AB M AB M AB M AB M AB M AB M AB AB AB AB AB AB AB AB AB AB	SENSE:PULSE Iter Freq: 5.77500000 GH; J: Free Run Avg H ten: 30 dB	775MHz ^z old: 100/100	Radio Std: None Radio Device: BTS 5.765916 GHz	Frequency Center Freq
Keysight Spectrum Analyzer - Occupied I RL RF 50.0 AC Center Freq 5.77500000 Ref Offset 4.38 d O dB/div Ref 24.38 dB 14.4	B B B B M AB M AB M AB M AB M AB M AB M AB AB AB AB AB AB AB AB AB AB	SENSE:PULSE Iter Freq: 5.77500000 GH; J: Free Run Avg H ten: 30 dB	775MHz ^z old: 100/100	Radio Std: None Radio Device: BTS 5.765916 GHz	Frequency Center Freq
Keysight Spectrum Analyzer - Occupied f RL RF 50 R AC Center Freq 5.77500000 Ref Offset 4.38 d O dB/div Ref Offset 4.38 d 0 dB/div Ref 24.38 dB O 14 4 4.33 6.2 Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Colspan="2">Ref Offset 4.38 d 0 dB/div Ref 24.38 dB 5.62 Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Colspan="2">Image: Colspan="2">Image: Colspan="2" Image: Co	B B B B M AB M AB M AB M AB M AB M AB M AB AB AB AB AB AB AB AB AB AB	SENSE:PULSE Iter Freq: 5.77500000 GH; J: Free Run Avg H ten: 30 dB	775MHz ^z old: 100/100	Radio Std: None Radio Device: BTS 5.765916 GHz	Frequency Center Freq
Keysight Spectrum Analyzer - Occupied I RL RF 50 Ω AC Center Freq 5.77500000 Secondary Secondary AC CodB/div Ref Offset 4.38 ME Secondary Secondary 0 dB/div Ref 24.38 dB ME Secondary Secondary Secondary 14.4 Secondary Secondary Secondary Secondary Secondary 15.6 Secondary Secondary Secondary Secondary Secondary 15.6 Secondary Secondary Secondary Secondary Secondary 15.6 Secondary Secondary Secondary Secondary Secondary	B B B B M AB M AB M AB M AB M AB M AB M AB AB AB AB AB AB AB AB AB AB	SENSE:PULSE Iter Freq: 5.77500000 GH; J: Free Run Avg H ten: 30 dB	775MHz ^z old: 100/100	Radio Std: None Radio Device: BTS 5.765916 GHz	Frequency Center Free 5.775000000 GH
Keysight Spectrum Analyzer - Occupied 1 RL RF 50 Ω AC center Freq 5.77500000 Secondary Secondary AC CodB/div Ref Offset 4.38 Ref 24.38 dB Secondary Secondary 14 Secondary Secondary Secondary Secondary Secondary 14 Secondary Secondary Secondary Secondary Secondary 15 Secondary Secondary Secondary Secondary Secondary 15 Secondary Secondary Secondary Secondary Secondary 16 Secondary Secondary Secondary Secondary Secondary 15 Secondary Secondary Secondary Secondary Secondary 16 Secondary Secondary Secondary Secondary Secondary Secondary 16 Secondary Secondary Secondary Secondary Secondary 16 Secondary Secondary Secondary Secondary Sec	B B B B M AB M AB M AB M AB M AB M AB M AB AB AB AB AB AB AB AB AB AB	SENSE:PULSE Iter Freq: 5.77500000 GH; J: Free Run Avg H ten: 30 dB	z old: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.765916 GH2 -3.7689 dBm	Center Free 5.775000000 GH CF Step 12.000000 MH
Keysight Spectrum Analyzer - Occupied 1 RL RF 50 Q AC Center Freq 5.77500000 Ref Offset 4.38 dB O dB/div Ref 24.38 dB 14 4 A A 62 A A 64 A A A 65 A A A 66 A A A A 66 A A A A 66 A A A A A 66 A	W O GHz #IFGain:Low Cent Trig #At 2B m 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:PULSE	z old: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.765916 GH2 -3.7639 dBm 	Frequency Center Free 5.775000000 GH
Keysight Spectrum Analyzer - Occupied I RL RF 50 Q AC Center Freq 5.77500000 Ref Offset 4.38 dB O dB/div Ref 24.38 dB 14 4 A A 62 A A 64 A A A 65 A A A A A A A A Colspan="2">Conter 5.775 GHz Res BW 820 kHz A	W O GHz #IFGain:Low Cer Trig #At 2B m 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:PULSE	z old: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.765916 GH2 -3.7639 dBm 	Frequency Center Freq 5.775000000 GH 5.775000000 GH 12.000000 MH Auto Mar
Keysight Spectrum Analyzer - Occupied I RL RF 50 Q AC Center Freq 5.77500000 Ref Offset 4.38 dB O dB/div Ref 24.38 dB 14 4 A A 62 A A 64 A A A 65 A A A A A A A A Colspan="2">Conter 5.775 GHz Res BW 820 kHz A	W O GHz #IFGain:Low Cent Trig #At 2B m 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:PULSE	z old: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.765916 GH2 -3.7639 dBm 	Frequency Center Free 5.775000000 GH 12.000000 MH Auto Mar Freq Offse
Keysight Spectrum Analyzer - Occupied I RL RF 50 Q AC Center Freq 5.77500000 Ref Offset 4.38 dB O dB/div Ref 24.38 dB 14 4 A A 62 A A 64 A A A 65 A A A A A A A A Colspan="2">Conter 5.775 GHz Res BW 820 kHz A	W O GHz #IFGain:Low Cer Trig #At 2B m 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:PULSE	775MHz ^z old: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.765916 GH2 -3.7639 dBm 	Frequency Center Free 5.775000000 GH 12.000000 MH Auto Mar Freq Offse
Keysight Spectrum Analyzer - Occupied 1 RL RF 50 Ω AC Center Freq 5.77500000 Ref Offset 4.38 G	th 5.835 MHz	SENSE:PULSE	775MHz ^z old: 100/100 Mkr1	Radio Std: None Radio Device: BTS 5.765916 GH2 -3.7639 dBm Span 120 MH2 Sweep 1.333 ms dBm	Center Freq 5.775000000 GH CF Ster 12.000000 MH
Ref Offset 4.36 d Ref Offset 4.36 d C dB/div Ref 24.38 dB C dB/div	w 0 GHz #FGain:Low dB m dB m th 5.835 MHz 139.17 kHz	SENSE:PULSE Iter Freq: 5.775000000 GH; I: Freq Run Avg H; ten: 30 dB #VBW 2.4 MHz Total Power % of OBW Po	2775MHz 2 old: 100/100 Mkr1 11.5 0 wer 99.	Radio Std: None Radio Device: BTS 5.765916 GH2 -3.7639 dBm Span 120 MH2 Sweep 1.333 ms dBm	Frequency Center Free 5.775000000 GH 5.775000000 GH 5.775000000 GH 5.775000000 GH 12.000000 MH Auto Mar Freq Offse
Ref Offset 4.36 d Ref Offset 4.36 d C dB/div Ref 24.38 dB C dB/div	w 0 GHz #FGain:Low dB m dB m th 5.835 MHz 139.17 kHz	SENSE:PULSE Iter Freq: 5.775000000 GH; I: Freq Run Avg H; ten: 30 dB #VBW 2.4 MHz Total Power % of OBW Po	2775MHz 2 old: 100/100 Mkr1 11.5 0 wer 99.	Radio Std: None Radio Device: BTS 5.765916 GH2 -3.7639 dBm Span 120 MH2 Sweep 1.333 ms dBm	Frequency Center Free 5.775000000 GH 12.000000 MH Auto Mar Freq Offse
Ref Offset 4.38 d Ref Offset 4.38 d d B/div Ref 24.38 dB d B/div Ref 24.	w 0 GHz #FGain:Low dB m dB m th 5.835 MHz 139.17 kHz	SENSE:PULSE Iter Freq: 5.775000000 GH; I: Freq Run Avg H; ten: 30 dB #VBW 2.4 MHz Total Power % of OBW Po	2775MHz 2 old: 100/100 Mkr1 11.5 0 wer 99.	Radio Std: None Radio Device: BTS 5.765916 GH2 -3.7639 dBm Span 120 MH2 Sweep 1.333 ms dBm	Frequency Center Free 5.775000000 GH 12.000000 MH Auto Mar Freq Offse

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	OBW N	VNT ax20 574	45MHz	
Keysight Spectrum Analyzer - Occupied BW				&
RL RF 50Ω AC Center Freq 5.745000000 Gł	Z Center	NSE:PULSE Freq: 5.745000000 GHz	Radio Std:	None Frequency
	Gain:Low #Atten:		d: 100/100 Radio Devi	ce: BTS
	Cum.cow		Mkr1 5.7476	
Ref Offset 4.31 dB 0 dB/div Ref 24.31 dBm				/5 dBm
.og				Contor Fro
4.31		1		5.745000000 GH;
5.69	Mana and Marine and Marine and And	and the first and the first and the	L CAMAR MARINA	
15.7				
25.7				
				Markey .
15.7 W WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW				M MAN
56.7 311				
Center 5.745 GHz Res BW 200 kHz	#1	/BW 620 kHz	Spar Sweep	1 30 MHz CF Step
	#**			Auto Mar
Occupied Bandwidth		Total Power	11.5 dBm	
19.0	001 MHz			Freq Offse
Transmit Freq Error	16.792 kHz	% of OBW Pow	ver 99.00 %	о н
x dB Bandwidth	22.28 MHz	x dB	-26.00 dB	
	22.20 1112	X UB	-20.00 dB	
SG			STATUS	
		VNT ax20 57	85MHz	
	OBWIN		0311112	
Keysight Spectrum Analyzer - Occupied BW R L RF 50 Ω AC		NSE:PULSE		Apr16, 2024 None Frequency
enter Freq 5.785000000 Gl	Trig: F		Radio Std: d: 100/100	
#IF	Gain:Low #Atten	: 30 dB	Radio Devi	
Ref Offset 4.39 dB			Mkr1 5.7888	88 GHZ 85 dBm
0 dB/div Ref 24.39 dBm			-0.100	
14.4				Center Free
4.39				5.785000000 GH
5.61 15.6	were the government was	my mon when many many many many	un Martin Min	
25.6			\ ` ,	
35.6			Why have	
				MANN
55.6				
55.6				
Center 5.785 GHz			Spar	30 MHz CF Step
Res BW 200 kHz	#\	/BW 620 kHz	Sweep	1.333 ms 3.000000 MH
Occupied Bandwidth		Total Power	11.2 dBm	<u>Auto</u> Mar
	82 MHz			
				Freq Offse 0 Hi
Transmit Freq Error	7.830 kHz	% of OBW Pow		
x dB Bandwidth	21.68 MHz	x dB	-26.00 dB	
56			STATUS	

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	OBW N	IVNT ax20 58	25MHz		
Keysight Spectrum Analyzer - Occupied B					- ¢ 💌
୯ RL RF 50 ହ AC Center Freq 5.825000000) GHz Cente	r Freq: 5.825000000 GHz		11:44:28 AM Apr 16, 2024 Radio Std: None	Frequency
		Free Run Avg Hol n: 30 dB	d: 100/100	Radio Device: BTS	
				5.819006 GHz	Ĩ
Ref Offset 4.38 d 0 dB/div Ref 24.38 dBr				-5.1112 dBm	
-og					Conton Eng
4.38	1				Center Free 5.825000000 GH
5.62	unter the the the	who make when the	und de Mari Inca		
15.6	almut dans on the states of states	AN ALL THE PLACE AND ALL AND A			
25.6				- Wale	
35.6				· Collingham Marshare	
45.6 MM				·····	
55.6					
Center 5.825 GHz Res BW 200 kHz		VBW 620 kHz		Span 30 MHz Sweep 1.333 ms	Cr Sie
					3.000000 MH <u>Auto</u> Mar
Occupied Bandwid		Total Power	11.1	dBm	
19	9.000 MHz				Freq Offse
Transmit Freq Error	1.928 kHz	% of OBW Pow	ver 99.	00 %	он
x dB Bandwidth	21.97 MHz	x dB	-26.0	0 dB	
SG			Ko STATUS		
	OBW N	IVNT ax40 57	55MH7		
	-				
Keysight Spectrum Analyzer - Occupied B ¹	W				
RL RF 50Ω AC	S	ENSE:PULSE		12:34:39 PM Apr 16, 2024	Frequency
RL RF 50Ω AC) GHz Cente Trig: I	r Freq: 5.755000000 GHz Free Run Avg Hol	d: 100/100	Radio Std: None	
RL RF 50 Ω AC Center Freq 5.755000000) GHz Cente →→ Trig: f #FGain:Low #Atter	r Freq: 5.755000000 GHz	d: 100/100	Radio Std: None Radio Device: BTS	
RL RF 50 Ω AC Center Freq 5.755000000 Ref Offset 4.37 d) GHz Cente #IFGain:Low #Atter	r Freq: 5.755000000 GHz Free Run Avg Hol	d: 100/100	Radio Std: None	
RL RF 50 Ω AC Center Freq 5.755000000 Ref Offset 4.37 d Ref Offset 4.37 dBr 0 dB/div Ref 24.37 dBr Ref 24.37 dBr) GHz Cente #IFGain:Low #Atter	r Freq: 5.755000000 GHz Free Run Avg Hol	d: 100/100	Radio Std: None Radio Device: BTS 5.768332 GHz	Frequency
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10. Maximum Conducted Output Power

10.1 Block Diagram Of Test Setup



10.2 Limit

According to FCC §15.407

■ For the band 5.15-5.25 GHz,

(a) (1) (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(a) (1) (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(a) (1) (iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(a) (2) The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition,



the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the band 5.725-5.85 GHz

(a) (3) for the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations

10.3 Test Procedure

Maximum conducted output power may be measured using a spectrum analyzer/EMI receiver or an RF power meter.

1. Device Configuration

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).

a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.

2. Measurement using a Spectrum Analyzer or EMI Receiver (SA)

Measurement of maximum conducted output power using a spectrum analyzer requires integrating the spectrum across a frequency span that encompasses, at a minimum, either the EBW or the 99-percent occupied bandwidth of the signal.1 However, the EBW must be used to determine bandwidth dependent limits on maximum conducted output power in accordance with § 15.407(a).

a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:

The EUT transmits continuously (or with a duty cycle ≥ 98 percent).

• Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.



(ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.

(iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.

b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.

(ii) Set RBW = 1 MHz.

(iii) Set VBW ≥ 3 MHz.

(iv) Number of points in sweep \geq 2 Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

(vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

(vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \geq 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".

(viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum

10.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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10.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%		
Pressure:	101KPa	Test Voltage:	DC 12V		
Test Mode:	5745-5825MHz				

Condition	Mode	Frequency Conducted Power (dBm)		r (dBm)	Limit	Verdict	
Condition	Mode	(MHz)	Ant A	Ant B	Ant C	(dBm)	verdict
NVNT	а	5745	3.65	3.39	3.59	30	Pass
NVNT	а	5785	3.46	3.22	3.43	30	Pass
NVNT	а	5825	3.28	3.51	3.47	30	Pass
NVNT	n20	5745	3.04	3.24	3.49	30	Pass
NVNT	n20	5785	3.25	3.04	3.32	30	Pass
NVNT	n20	5825	3.03	3.37	3.34	30	Pass
NVNT	n40	5755	2.98	3.1	2.94	30	Pass
NVNT	n40	5795	3.03	3.3	3.05	30	Pass
NVNT	ac20	5745	3.39	3.46	3.19	30	Pass
NVNT	ac20	5785	3.24	3.23	2.94	30	Pass
NVNT	ac20	5825	3.57	3.04	3.27	30	Pass
NVNT	ac40	5755	3.05	2.74	2.84	30	Pass
NVNT	ac40	5795	2.63	2.8	3.04	30	Pass
NVNT	ac80	5775	2.72	2.65	2.37	30	Pass
NVNT	ax20	5745	3.48	3.13	3.46	30	Pass
NVNT	ax20	5785	3.3	3.43	3.22	30	Pass
NVNT	ax20	5825	3.1	3.28	3.03	30	Pass
NVNT	ax40	5755	3.03	3.14	2.93	30	Pass
NVNT	ax40	5795	2.75	2.83	3.1	30	Pass
NVNT	ax80	5775	2.21	2.64	2.74	30	Pass

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For MIMO							
Operating mode	Channel Freq. (MHz)	Conducted Output Power(dBm)	Limit (dBm)	Verdict			
n20	5745	8.03	25.56	Pass			
n20	5785	7.98	25.56	Pass			
n20	5825	8.02	25.56	Pass			
n40	5755	7.78	25.56	Pass			
n40	5795	7.90	25.56	Pass			
ac20	5745	8.12	25.56	Pass			
ac20	5785	7.91	25.56	Pass			
ac20	5825	8.07	25.56	Pass			
ac40	5755	7.65	25.56	Pass			
ac40	5795	7.60	25.56	Pass			
ac80	5775	7.35	25.56	Pass			
ax20	5745	8.13	25.56	Pass			
ax20	5785	8.09	25.56	Pass			
ax20	5825	7.91	25.56	Pass			
ax40	5755	7.81	25.56	Pass			
ax40	5795	7.67	25.56	Pass			
ax80	5775	7.31	25.56	Pass			

No. : BCTC/RF-EMC-005

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11. Out Of Band Emissions

11.1 Block Diagram Of Test Setup



11.2 Limit

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits: (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 e.i.r.p. of -27 dBm/MHz.

(2) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured

frequency within its operating range, and make sure the instrument is operated in its linear range. 3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.

4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

5. Repeat above procedures until all measured frequencies were complete.

11.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data

11.5 Test Result

Temperature:	26 ℃	Relative Humidity: 54%
Pressure:	101kPa	Test Voltage: DC 12V



Note: (A)(B)(C) Represent the value of antenna A and B and C, The worst data is Antenna A, only shown Antenna A. Antenna A: 5745-5825MHz







	r - Swept SA	CONCE NUMBER		11.01.00 41 4-11 201	
enter Freq 5.66	50 Ω AC 5000000 GHz PNO: Fast	SENSE:PULSE	#Avg Type: RMS Avg Hold: 100/100	11:01:09 AM Apr 16, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N N	Frequency
	IFGain:Low et 4.31 dB	#Atten: 30 dB	Mk	r1 5.744 6 GHz	Auto Tur
10 dB/div Ref 20. Og 10.0 Trace 1 Pass	00 dBm	Ţ		1.334 dBm	
0.00				Marring	Center Fre 5.665000000 GH
20.0					
30.0					Start Fre 5.565000000 GH
40.0 50.0 <mark>/mh///////////////////////////////////</mark>		and the state of the second	and a second shares the second s	2	
60.0					Stop Fre 5.765000000 GH
70.0					
Start 5.5650 GHz #Res BW 1.0 MHz	#VE	3W 3.0 MHz	Sweep 1.	Stop 5.7650 GHz 000 ms (1001 pts)	CF Ste 20.000000 MH
MKR MODE TRC SCL	× 5.744 6 GHz	Y F 1.334 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Ma
2 N 1 f 3 N 1 f 4	5.725 0 GHz 5.620 4 GHz	-47.982 dBm -45.476 dBm			Freq Offs
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7 8 9					Scale Typ
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sg				,	
	Band	Edge NVNT	n20 5825MHz l	ligh	
Keysight Spectrum Analyze	r - Swept SA 50 Ω AC	SENSE:PULSE		11:14:31 AM Apr 16, 2024	
Center Freq 5.90	5000000 GHz PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB	#Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N N	Frequency
	et 4.38 dB		Mk	1 5.823 2 GHz	Auto Tur
00	<u>.00 dBm</u>			0.900 dBm	
Trace 1 Pass					Center Fre 5.905000000 GH
10.0 Trace 1 Pass 0.00					0.000000000000
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0.00 .10.0 .20.0			na ceriminano calla la Missolago para		Start Fre
	2 martine of the manual strategy and the	ally produces and a straight of the straight o	na contrast and a contrast of the second and a contrast of the second and the sec	n the former of the state	Start Fre 5.805000000 GH Stop Fre
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1000 000 1000 2	Х	Y F		Stop 6.0050 GHz	Start Fre 5.80500000 GF Stop Fre 6.00500000 GF CF Ste 20.00000 MF
100 000 000 000 100 000 200 0 300 0 400 0 500			Sweep 1.	Stop 6.0050 GHz 000 ms (1001 pts)	Start Fre 5.805000000 GF Stop Fre 6.005000000 GF 20.000000 MF <u>Auto</u> Ma Freq Offs
100 100 100 200 200 400 500 500 500 500 500 500 5	X 5.823 2 GHz 5.850 0 GHz	Y F 0.900 dBm -46.242 dBm	Sweep 1.	Stop 6.0050 GHz 000 ms (1001 pts)	Start Fre 5.805000000 GF Stop Fre 6.005000000 GF 20.000000 MF <u>Auto</u> Ma Freq Offs
10.0 .00 0.00 .00 20.0 .00 30.0 .00 40.0 .00 50.0 .00 60.0 .00 70.0 .00 Start 5.8050 GHz Res BW 1.0 MHz MKR MODE TRC SCL 1 f 3 1 f 4 .00 .00 5 .00 .00	X 5.823 2 GHz 5.850 0 GHz	Y F 0.900 dBm -46.242 dBm	Sweep 1.	Stop 6.0050 GHz 000 ms (1001 pts)	Start Fre 5.805000000 GH 6.005000000 GH 20.000000 MH Auto Ma Freq Offs 0 H
10.0 0.00 10.0 20.0 30.0 40.0 50.0	X 5.823 2 GHz 5.850 0 GHz	Y F 0.900 dBm -46.242 dBm	Sweep 1.	Stop 6.0050 GHz 000 ms (1001 pts)	Start Fre 5.80500000 GH Stop Fre 6.00500000 GH CF Ste 20.00000 MH





	2 AC	SENSE:PULSE	#Avg Type: RMS	11:50:57 AM Apr 16, 2024 TRACE 1 2 3 4 5 6	Frequency
Center Freq 5.6950 PASS	PNO: Fast ← IFGain:Low	 Trig: Free Run #Atten: 30 dB 	Avg Hold: 100/100		
Ref Offset 4.	37 dB dBm		Mk	r1 5.757 8 GHz -0.253 dBm	Auto Tun
Log 10.0 0.00 -10.0				1 Ny Parellan	Center Fre 5.695000000 GH
-20.0			A2		Start Fre 5.595000000 G⊢
-60.0	Lapet of Local Day of Source and Source	<u>ประกองสูปพระครบงาม ครบบ่างสามห</u>			Stop Fre 5.795000000 GH
Start 5.5950 GHz #Res BW 1.0 MHz	#VB	W 3.0 MHz	Sweep 1	Stop 5.7950 GHz .000 ms (1001 pts)	CF Ste 20.000000 MH <u>Auto</u> Ma
MKR MODE TRC SCL 1 N 1 f 2 N 1 f 3 N 1 f 4	× 5.757 8 GHz 5.725 0 GHz 5.651 4 GHz	Y F -0.253 dBm -46.720 dBm -45.256 dBm	UNCTION FUNCTION WDTH	FUNCTION VALUE	Freq Offse
5 6 7 8 9				E	Scale Typ
		III			Log <u>Li</u>
ISG	Dend				
Keysight Spectrum Analyzer - Sv		Edge NVNT	n40 5795MHz	nıgn	- 6 -
RL RF 50 ⊆ Center Freq 5.8550 PASS		SENSE:PULSE ↓ Trig: Free Run #Atten: 30 dB	#Avg Type: RMS Avg Hold: 100/100	11:53:18 AM Apr16, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNN	Frequency
Ref Offset 4. 10 dB/div Ref 20.00	39 dB dBm		Mk	r1 5.798 0 GHz -0.520 dBm	Auto Tun
Log 10.0 Trace 1 Pass 0.00	1 Marine				Center Fre 5.855000000 G⊢
20.0	ll				Start Fre 5.755000000 G⊢
-20.0		<u>2</u>	3		
-30.0		angt Aufund für Henrichten Aufund Angt Aufund für Henrichten Aufund Aufund für Henrichten Aufund Aufund Aufund für Henrichten Aufund	And a state of the	สมุขาวสัมชาติการระบา _ย สอง เหร	Stop Fre 5.955000000 GH
-30.0 -40.0 -5	#VB	W 3.0 MHz	Sweep 1	Stop 5.9550 GHz .000 ms (1001 pts)	5.955000000 GH CF Ste 20.000000 MH
-40.0 -40.0 -5		W 3.0 MHz		Stop 5.9550 GHz	5.95500000 G⊢ CF Ste 20.00000 M⊢ <u>Auto</u> Ma Freq Offse
-30.0 -40.0 -5	#VB1 5.798 0 GHz 5.850 0 GHz	W 3.0 MHz	Sweep 1	Stop 5.9550 GHz .000 ms (1001 pts)	5.955000000 GH CF Ste 20.000000 MH





		Edge NVNT a	ac20 5745MHz	Low	
Keysight Spectrum Analyzer - S	wept SA Ω AC	SENSE:PULSE		11:24:28 AM Apr 16, 2024	
Center Freq 5.6650		Trig: Free Run	#Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 5 6	Frequency
PASS	IFGain:Low	#Atten: 30 dB			Auto Tun
Ref Offset 4 10 dB/div Ref 20.00	.31 dB dBm		IVIR	r1 5.739 6 GHz 1.533 dBm	
Log 10.0 Trace 1 Pass				.1	Contor Fro
0.00					Center Fre 5.665000000 GH
-10.0					
-20.0					Start Fre
-30.0				2	5.565000000 GH
-50.0 White by marking marketing	man maker and	proved the Matheman	and also more and and and and a second	27 hv	
-60.0					Stop Fre 5.765000000 GH
-70.0					
Start 5.5650 GHz			0	Stop 5.7650 GHz	CF Ste
#Res BW 1.0 MHz	#VE	W 3.0 MHz	Sweep 1	.000 ms (1001 pts)	20.000000 MH <u>Auto</u> Ma
1 N 1 f 2 N 1 f	5.739 6 GHz 5.725 0 GHz	1.533 dBm -47.855 dBm			
3 N 1 f 4	5.573 4 GHz	-45.752 dBm			Freq Offse
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7					Scale Typ
9 10 11					Log <u>Li</u>
				4	
ISG					
	Band B	Edge NVNT a	ac20 5825MHz	High	
Keysight Spectrum Analyzer - S		SENSE:PULSE		11:34:54 AM Apr 16, 2024	
Center Freq 5.9050		Trim Free Days	#Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 5 6	Frequency
PASS	IFGain:Low	#Atten: 30 dB		DET P NNNN	Auto Tun
Ref Offset 4 10 dB/div Ref 20.00			IVIK	r1 5.833 0 GHz 1.142 dBm	
Log 10.0 Trace 1 Pass					Center Fre
0.00		\rightarrow			5.905000000 GH
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-20.0		+			Start Fre
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-40.0					Stop Free
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-40.0					6.005000000 GH
-40.0 -50.0 -70.0 Start 5.8050 GHz	#\/		Sweep 1	Stop 6.0050 GHz	CF Ste
-40.0	#Ve	W 3.0 MHz	Sweep 1	Stop 6.0050 GHz .000 ms (1001 pts)	6.005000000 GH CF Stej 20.000000 MH <u>Auto</u> Ma
-40.0 -50.0 -50.0 -70.0 Start 5.8050 GHz #Res BW 1.0 MHz MKR MODE TRC SCL 1 N 1 f	× 5.833 0 GHz 5.850 0 GHz	۲		.000 ms (1001 pts)	CF Ste j 20.000000 MH <u>Auto</u> Ma
-40.0 -50.0 -50.0 Start 5.8050 GHz #Res BW 1.0 MHz MKR MODE TRC SCI 1 N 1 f 2 N 1 f 3 N 1 f 4	× 5.833 0 GHz	Y F 1.142 dBm		.000 ms (1001 pts)	CF Step 20.000000 MH
-40.0 -5	× 5.833 0 GHz 5.850 0 GHz	۲		.000 ms (1001 pts)	CF Stej 20.00000 MH <u>Auto</u> Ma Freq Offse
-40.0 -50.0 -50.0 -70.0 Start 5.8050 GHz #Res BW 1.0 MHz MKR MODE TRC SCL 1 N 1 f 2 N 1 f 3 N 1 f 3 N 1 f 3 N 1 f 3 N 1 f 8 8	× 5.833 0 GHz 5.850 0 GHz	۲		.000 ms (1001 pts)	CFSte 20.000000 MH <u>Auto</u> Ma FreqOffse 0 H
-40.0 -5	× 5.833 0 GHz 5.850 0 GHz	۲		.000 ms (1001 pts)	CF Stej 20.00000 MH <u>Auto</u> Ma Freq Offse 0 H Scale Typ
-40.0 -5	× 5.833 0 GHz 5.850 0 GHz	۲		5000 ms (1001 pts)	CF Stej 20.00000 MH <u>Auto</u> Ma Freq Offse 0 H Scale Typ





Keysight Spectrum Analyzer - S	wept SA				- 6 -
RL RF 50	Ω AC	SENSE:PULSE	#4	11:59:38 AM Apr 16, 2024	Frequency
Center Freq 5.6950	PNO: Fast IFGain:Low	→→ Trig: Free Run #Atten: 30 dB	#Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNN	Trequency
		#Atten: 50 dB	Mkr	1 5.772 6 GHz	Auto Tur
Ref Offset 4 0 dB/div Ref 20.00				-1.599 dBm	
10.0 Trace 1 Pass				1	Center Fre
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60.0					5.795000000 GH
70.0					
Start 5.5950 GHz Res BW 1.0 MHz	#VB	W 3.0 MHz		Stop 5.7950 GHz 100 ms (1001 pts)	CF Ste 20.000000 MH
MKR MODE TRC SCL			UNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Ma
1 N 1 f 2 N 1 f	5.772 6 GHz 5.725 0 GHz	-1.599 dBm -47.836 dBm			
3 N 1 f	5.595 4 GHz	-45.691 dBm			Freq Offs 0 H
5					01
8					Scale Typ
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11				• •	
SG					
	Band B	Edge NVNT a	ac40 5795MHz I	High	
Keysight Spectrum Analyzer - S	wept SA	-		-	
	Ω AC				
enter Fred 5.8550	00000 GHz	SENSE:PULSE	#Avg Type: RMS	12:02:03 PM Apr 16, 2024 TRACE 1 2 3 4 5 6	Frequency
		Talas Free Days	#Avg Type: RMS Avg Hold: 100/100		Frequency
ASS Ref Offset 4	DOODOO GHz PNO: Fast IFGain:Low	Trig: Free Run	Avg Hold: 100/100	TRACE 123456 TYPE MWWWWW DET PNNNN 1 5.804 4 GHz	Frequency
ASS Ref Offset 4 0 dB/div Ref 20.00	DOODOO GHz PNO: Fast IFGain:Low	Trig: Free Run	Avg Hold: 100/100	TRACE 123456 TYPE MWWWW DET PNNNNN	Frequency
ASS Ref Offset 4 0 dB/div Ref 20.00 Og Trace 1 Pass	DOODOO GHz PNO: Fast IFGain:Low	Trig: Free Run	Avg Hold: 100/100	TRACE 123456 TYPE MWWWWW DET PNNNN 1 5.804 4 GHz	Frequency Auto Tur Center Fre
Ref Offset 4 0 dB/div Ref 20.00 10.0 0.00 10.0 0.00 10.0	00000 GHz PNO: Fast IFGain:Low	Trig: Free Run	Avg Hold: 100/100	TRACE 123456 TYPE MWWWWW DET PNNNN 1 5.804 4 GHz	Frequency Auto Tur Center Fre
Ref Offset 4 0 dB/div Ref 20.00 0 Trace 1 Pass 10.0 10.0 10.0 10.0	00000 GHz PNO: Fast IFGain:Low	Trig: Free Run	Avg Hold: 100/100	TRACE 123456 TYPE MWWWWW DET PNNNN 1 5.804 4 GHz	Frequency Auto Tur Center Fre 5.855000000 GH
Ref Offset 4 0 dB/div Ref 20.00 Og Trace 1 Pass 0 00 10.0 20.0 10.	00000 GHz PNO: Fast IFGain:Low	Trig: Free Run	AvgiHoid: 100/100	TRACE 123456 TYPE MWWWWW DET PNNNN 1 5.804 4 GHz	Frequency Auto Tun Center Fre 5.855000000 GH Start Fre
PASS Ref Offset 4 0 dB/div Ref 20.00 9 10.0 10.0 20.0 10.0	00000 GHz PNO: Fast IFGain:Low	Trig: Free Run	Avg Hold: 100/100	TRACE 123456 TYPE MWWWWW DET PNNNN 1 5.804 4 GHz	Frequency Auto Tun Center Fre 5.855000000 GH Start Fre
PASS Ref Offset 4 0 dB/div Ref 20.00 9 10.0	00000 GHz PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB	AvgiHoid: 100/100	TRACE 123456 TYPE MWWWWW DET PNNNN 1 5.804 4 GHz	Frequency Auto Tur Center Fre 5.85500000 GH Start Fre 5.755000000 GH
PASS Ref Offset 4 0 dB/div Ref 20.00 9 10.0	00000 GHz PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB	AvgiHoid: 100/100	TRACE 123456 TYPE MWWWWW DET PNNNN 1 5.804 4 GHz	Frequency Auto Tur Center Fre 5.85500000 GH Start Fre 5.755000000 GH
Ref Offset 4 0 dB/div Ref 20.00 0 gg Trace 1 Pass 0.00 ////////////////////////////////////	00000 GHz PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB		TRACE 12 3 4 5 6 TYPE MYNWWYDET MYNNNN 1 5.804 4 GHz -1.528 dBm	Frequency Auto Tun Center Fre 5.85500000 GF Start Fre 5.755000000 GF Stop Fre 5.955000000 GF
Ref Offset 4 0 dB/div Ref 20.00 10.0 Trace 1 Pass	00000 GHz PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB		TRACE 123456 TYPE MWWWW DET PNNNN 1 5.804 4 GHz	Frequency Auto Tun Center Fre 5.855000000 GF Start Fre 5.755000000 GF Stop Fre 5.95500000 GF CF Ste 20.000000 MF
Ref Offset 4 Ref 20.00 Trace 1 Pass Trace 1 Pass Trace 1 Pass 0 00 0 000	BOODOO GHZ PNO: Fast - IFGain:Low B B B B B B B B B B B B B B B B B B B	Trig: Free Run #Atten: 30 dB		TRACE 12 3 4 5 6 TYPE 12 14 5 6 TYPE 12 11 15 12 10 10 10 10 10 10 10 10 10 10 10 10 10	
Ref Offset 4 0 dB/div Ref 20.00 0 g Trace 1 Pass 0 dB/div Ref 20.00 0 db/div Ref 20	00000 GHz PN0: Fast IFGain:Low 339 dB dBm 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	→ Trig: Free Run #Atten: 30 dB → #Atten: 30 dB	AvgiHold: 100/100 Mkr	TRACE 12 3 4 5 6 TYPE 1 1 5.804 4 GHz -1.528 dBm 5 1 5.9550 GHz 1 5.9550 GHz 100 ms (1001 pts)	Frequency Auto Tun Center Fre 5.855000000 GF Start Fre 5.755000000 GF Stop Fre 5.955000000 GF CF Ste 20.000000 MF Auto Materia
Ref Offset 4 Ref 20.00 0 dB/div Ref 20.00 0 gg/div Ref 20.00 0 g	200000 GHz PNO: Fast IFGain:Low 39 dB dBm 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Trig: Free Run #Atten: 30 dB	AvgiHold: 100/100 Mkr	TRACE 12 3 4 5 6 TYPE 1 1 5.804 4 GHz -1.528 dBm 5 1 5.9550 GHz 1 5.9550 GHz 100 ms (1001 pts)	Frequency Auto Tun Center Fre 5.855000000 GF Start Fre 5.755000000 GF Stop Fre 5.95500000 GF CF Ste 20.000000 MF
Ref Offset 4 0 dB/div Ref 20.00 0 g Trace 1 Pass 10.0	00000 GHz PN0: Fast IFGain:Low 339 dB dBm 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	→ Trig: Free Run #Atten: 30 dB → #Atten: 30 dB	AvgiHold: 100/100 Mkr	TRACE 12 3 4 5 6 TYPE 1 1 5.804 4 GHz -1.528 dBm 5 1 5.9550 GHz 1 5.9550 GHz 100 ms (1001 pts)	Start Fre 5.855000000 GH 5.855000000 GH 5.755000000 GH 5.955000000 GH CF Ste 20.000000 MH Auto Mato Freq Offse 0 H
Ref Offset 4 Ref 20.00 0 dB/div Ref 20.00 0 gg Trace 1 Pass 10.0 January January 10.0 January January <td>00000 GHz PN0: Fast IFGain:Low 339 dB dBm 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td> <td>→ Trig: Free Run #Atten: 30 dB → #Atten: 30 dB</td> <td>AvgiHold: 100/100 Mkr</td> <td>TRACE 12 3 4 5 6 TYPE 1 1 5.804 4 GHz -1.528 dBm 5 1 5.9550 GHz 1 5.9550 GHz 100 ms (1001 pts)</td> <td>Start Fre 5.855000000 GH 5.855000000 GH 5.755000000 GH 5.955000000 GH CF Ste 20.000000 MH Auto Mato Freq Offse 0 H</td>	00000 GHz PN0: Fast IFGain:Low 339 dB dBm 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	→ Trig: Free Run #Atten: 30 dB → #Atten: 30 dB	AvgiHold: 100/100 Mkr	TRACE 12 3 4 5 6 TYPE 1 1 5.804 4 GHz -1.528 dBm 5 1 5.9550 GHz 1 5.9550 GHz 100 ms (1001 pts)	Start Fre 5.855000000 GH 5.855000000 GH 5.755000000 GH 5.955000000 GH CF Ste 20.000000 MH Auto Mato Freq Offse 0 H
Ref Offset 4 0 dB/div Ref 20.00 0 g Trace 1 Pass 10 0 Image: second seco	00000 GHz PN0: Fast IFGain:Low 339 dB dBm 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	→ Trig: Free Run #Atten: 30 dB → #Atten: 30 dB	AvgiHold: 100/100 Mkr	TRACE 12 3 4 5 6 TYPE 1 1 5.804 4 GHz -1.528 dBm 5 1 5.9550 GHz 1 5.9550 GHz 100 ms (1001 pts)	Frequency Auto Tur Center Fre 5.85500000 GF Start Fre 5.755000000 GF Stop Fre 5.955000000 GF CF Ste 20.000000 MF Auto Auto Tur Stop Fre 5.955000000 GF Stop Fre 5.95500000 GF Freq Offso





Keysight Spectrum Analyzer					
RL RF 5		SENSE:PULSE	#Avg Type: RMS Avg Hold: 100/100	12:51:37 PM Apr 16, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW	Frequency
ASS	PNO: Fast IFGain:Low	#Atten: 30 dB	-	DET P NNNN	Auto Tun
Ref Offset 0 dB/div Ref 20.0			Mkr	1 5.804 4 GHz -3.857 dBm	
og 10.0 Trace 1 Pass		The second secon			Center Fre
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50.0 Colomorthanter and the	<i></i>		Marchinesonon Mich	Art Water Brinner Charman the	Stop Fre
70.0					5.895000000 GH
tart 5.6950 GHz Res BW 1.0 MHz	#VI	BW 3.0 MHz		Stop 5.8950 GHz 100 ms (1001 pts)	CF Ste 20.000000 MH
MKR MODE TRC SCL	X		UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
1 N 1 f 2 N 1 f 3 N 1 f	5.804 4 GHz 5.850 0 GHz 5.871 8 GHz	-3.857 dBm -47.685 dBm -44.209 dBm			Freq Offs
4 5					0 H
6 7					Deele Tra
8 9 10					Scale Typ
11				-	Log <u>L</u>
G					
	Band	Edge NVNT :	ac80 5775MHz I	0W	
Keysight Spectrum Analyzer -		Lagentin		2011	
	- Swept SA				- ¢
10 5	0 Ω AC	SENSE:PULSE	#Avg Type: RMS	12:51:22 PM Apr 16, 2024 TRACE 123456	Frequency
enter Freq 5.755	0 Ω AC	Trim Free Day	#Avg Type: RMS Avg Hold: 100/100	12:51:22 PM Apr 16, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	Frequency
Center Freq 5.755	0 Ω AC 000000 GHz PN0: Fast IFGain:Low	Trig: Free Run	Avg[Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNNN 1 5.739 2 GHz	Frequency
Center Freq 5.755 CASS 0 dB/div Ref 20.0 Comparison 1 Pass	0 Ω AC 000000 GHz PN0: Fast IFGain:Low	Trig: Free Run	Avg[Hold: 100/100	TRACE 12345 6 TYPE MWWWW DET P N N N N N	Frequency Auto Tur
Center Freq 5.755 ASS 0 dB/div Ref 0ffset 0 dB/div Ref 20.0 Pg Trace 1 Pass	0 Ω AC 000000 GHz PN0: Fast IFGain:Low	Trig: Free Run	Avg[Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNNN 1 5.739 2 GHz	Frequency Auto Tur Center Fre
Center Freq 5.755 PASS 0 dB/div Ref Offset 0 dB/div Trace 1 Pass 0 00	0 Ω AC 000000 GHz PN0: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB	AvgiHoid: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNNN 1 5.739 2 GHz	Frequency Auto Tur Center Fre
Center Freq 5.755 PASS 0 dB/div Ref 20.0 0 dB/di	0 Ω AC 000000 GHz PN0: Fast IFGain:Low	→ Trig: Free Run #Atten: 30 dB	AvgiHoid: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNNN 1 5.739 2 GHz	Frequency Auto Tur Center Fre 5.755000000 GH
Center Freq 5.755 CASS Comparison of the second sec	0 Ω AC 000000 GHz PN0: Fast IFGain:Low	→ Trig: Free Run #Atten: 30 dB	AvgjHold: 100/100	1 5.739 2 GHz -3.440 dBm	Frequency Auto Tur Center Fre 5.75500000 GH Start Fre
Center Freq 5.755 CASS Comparison of the second sec	0 Ω AC 000000 GHz PN0: Fast IFGain:Low	→ Trig: Free Run #Atten: 30 dB	AvgjHold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNNN 1 5.739 2 GHz	Auto Tur Center Fre 5.75500000 GH Start Fre 5.655000000 GH
Center Freq 5.755 CASS Control	0 Ω AC 000000 GHz PN0: Fast IFGain:Low	→ Trig: Free Run #Atten: 30 dB	AvgjHold: 100/100	1 5.739 2 GHz -3.440 dBm	Frequency Auto Tur Center Fre 5.755000000 GH Start Fre 5.655000000 GH
Ref Offset 0 dB/div Ref Offset 0 dB/div Ref 20.0 0 g Trace 1 Pass 0 00 100<	0 Ω AC 000000 GHz PN0: Fast IFGain:Low	→ Trig: Free Run #Atten: 30 dB	AvgjHold: 100/100	1 5.739 2 GHz -3.440 dBm	Frequency Auto Tur Center Fre 5.75500000 GH Start Fre
Trace 1 Pass 0	0 Ω AC 000000 GHz PRO: Fast IFGain:Low 4.38 dB 0 dBm 3 4.38 dB 0 dBm 3 4.38 dB 0 dBm	Trig: Free Run #Atten: 30 dB		ТКАСЕ II 2 3 4 5 6 ТУРЕ ИМИНИИ 1 5.739 2 GHz -3.440 dBm Ащих (Антикики Манадилистон Stop 5.8550 GHz	Frequency Auto Tur Center Fre 5.755000000 GH Start Fre 5.655000000 GH Stop Fre 5.855000000 GH
Ref Offset Ref Offset	0 0.2 AC 000000 GHz PNO: Fast IFGain:Low 4.38 dB 0 dBm 4.38 dB 4.38 dB 4	Trig: Free Run #Atten: 30 dB	Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE WYNWY 1 5.739 2 GHz -3.440 dBm -3.440 dBm -3.440 dBm Stop 5.8550 GHz -3.00 ms (1001 pts)	Frequency Auto Tur Center Fre 5.755000000 GH Start Fre 5.655000000 GH
Ref Offset 0 dB/div Ref 20.0 0	0 Ω AC 000000 GHz PNO: Fast IFGain:Low 4.38 dB 0 dBm 4.38 dB 4.38 dB 4.	Trig: Free Run #Atten: 30 dB		TRACE 1 2 3 4 5 6 TYPE NYNNN 1 5.739 2 GHz -3.440 dBm -3.440 dBm -3.440 dBm Stop 5.8550 GHz -3.8550 GHz 000 ms (1001 pts) -3.400 tps)	Frequency Auto Tur Center Fre 5.755000000 GH Start Fre 5.655000000 GH Stop Fre 5.855000000 GH CF Ste 20.000000 MH Auto Mate
Ref Offset 0 dB/div Ref 20.0 0 gB/div Ref 20.0	0 Ω AC 000000 GHz PRO: Fast IFGain:Low 4.38 dB 0 dBm 4.38 dB 0 dBm 4.38 dB 0 dBm 4.38 dB 0 dBm 4.38 dB 4.38 dB 4.3	Trig: Free Run #Atten: 30 dB	Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE WYNWY 1 5.739 2 GHz -3.440 dBm -3.440 dBm -3.440 dBm Stop 5.8550 GHz -3.00 ms (1001 pts)	Frequency Auto Tur Center Fre 5.755000000 GF Start Fre 5.655000000 GF Stop Fre 5.855000000 GF CF Ste 20.000000 MF Auto Ma
Senter Freq 5.755 PASS Ref Offset 0 dB/div 0 dB/div 0 g 10 dB/div 0 g 10 dB/div 0 g 10 dB/div 0 d	0 Ω AC 000000 GHz PRO: Fast IFGain:Low 4.38 dB 0 dBm 4.38 dB 0 dBm 4.5739 2 GHz 5.739 2 GHz	Trig: Free Run #Atten: 30 dB	Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE WYNWY 1 5.739 2 GHz -3.440 dBm -3.440 dBm -3.440 dBm Stop 5.8550 GHz -3.00 ms (1001 pts)	Frequency Auto Tur Center Fre 5.755000000 GH Start Fre 5.655000000 GH Stop Fre 5.855000000 GH CF Ste 20.000000 MH Auto Mate
Ref Offset 0 dB/div Ref 20.0 0 dB/div Ref 20.0 0 g Trace 1 Pass 0 dB/div Ref 20.0 0 g Trace 1 Pass 0 dB/div Ref 20.0 1 db/div Ref 20.0 1 db/div Ref 20.0 1 db/div Ref 20.0	0 Ω AC 000000 GHz PRO: Fast IFGain:Low 4.38 dB 0 dBm 4.38 dB 0 dBm 4.5739 2 GHz 5.739 2 GHz	Trig: Free Run #Atten: 30 dB	Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE WYNWY 1 5.739 2 GHz -3.440 dBm -3.440 dBm -3.440 dBm Stop 5.8550 GHz -3.00 ms (1001 pts)	Frequency Auto Tur Center Fre 5.755000000 GF Start Fre 5.655000000 GF Stop Fre 5.855000000 GF CF Ste 20.000000 MF Auto Ma
Ref Offset 0 dB/div Ref Offset 0 dB/div Ref 20.0 0 g Trace 1 Pass 100 Trace 1 Pass 0 d0 Trace 1 Pass 1 f Trace 1 Pass	0 Ω AC 000000 GHz PRO: Fast IFGain:Low 4.38 dB 0 dBm 4.38 dB 0 dBm 4.5739 2 GHz 5.739 2 GHz	Trig: Free Run #Atten: 30 dB	Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE WYNWY 1 5.739 2 GHz -3.440 dBm -3.440 dBm -3.440 dBm Stop 5.8550 GHz -3.00 ms (1001 pts)	Start Fre 5.755000000 GH 5.755000000 GH Start Fre 5.655000000 GH Stop Fre 5.855000000 GH CF Ste 20.000000 MH Auto Mato Freq Offse 0 H





Keysight Spectrum Analy	zer - Swept SA				
[∉] ^{RL} RF Center Freq 5.6	50 Ω AC 65000000 GHz	SENSE:PULSE	#Avg Type: RMS	11:40:21 AM Apr 16, 2024 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold: 100/100	DET P NNNN	
	set 4.31 dB		Mkr	1 5.741 4 GHz	Auto Tun
	0.00 dBm	- I - I - I - I - I - I - I - I - I - I		2.776 dBm	
					Center Fre 5.665000000 GH
-10.0					3.00300000 GI
-20.0					Start Fre
-30.0			3		5.565000000 GH
-40.0	Rockhartformulitudes were holor that the	and the addition of the second	anne mailemerer manyer	* \	
-60.0					Stop Fre 5.765000000 GH
-70.0					5.76500000 GH
Start 5.5650 GHz		_		Stop 5.7650 GHz	CF Ste
≇Res BW 1.0 MH		BW 3.0 MHz		00 ms (1001 pts)	20.000000 MH <u>Auto</u> Ma
MKR MODE TRC SCL	× 5.741 4 GHz	2.776 dBm	JNCTION FUNCTION WIDTH	FUNCTION VALUE	
2 N 1 f 3 N 1 f 4	5.725 0 GHz 5.696 0 GHz	-49.413 dBm -44.811 dBm			Freq Offse
5 6				E	0 H
7 8					Scale Typ
9 10					Log <u>Li</u>
11 <u> </u>				×	
ISG					
	Band	Edge NVNT a	x20 5825MHz H	ligh	
Keysight Spectrum Analy	rzer - Swept SA 50 Ω AC	SENSE:PULSE		11:44:54 AM Apr 16, 2024	
Center Freq 5.9	05000000 GHz PNO: Fast		#Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N	Frequency
PASS	IFGain:Low	#Atten: 30 dB			Auto Tun
10 dB/div Ref 2	[:] set 4.38 dB 0.00 dBm		WIKT	1 5.822 6 GHz 1.768 dBm	
Log 10.0 Trace 1 1 as:					Center Fre
	4	\rightarrow			5.905000000 GH
-10.0					
-20.0	l v				Start Fre
-40.0	<u>\</u> 2				5.805000000 GH
-50.0	had for an and sold which	นะสารทำการโรงไปเกมารู้ไม่ไรการการไ	and the second for the second	hafatadaya.AndylafaAntaayat	Stop Fre
-60.0					6.005000000 GH
-70.0					
Start 5.8050 GHz #Res BW 1.0 MH		BW 3.0 MHz		Stop 6.0050 GHz 00 ms (1001 pts)	CF Ste 20.000000 MH
	Х	Y F	JNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
	5.822 6 GHz	1.768 dBm -49.233 dBm			FreqOffse
MKR MODE TRC SCL 1 N 1 f 2 N 1 f	5.850 0 GHz	-44.170 dBm			0 H
1 N 1 f 2 N 1 f 3 N 1 f 4	5.952 8 GHz			-	
1 N 1 f 2 N 1 f 3 N 1 f				Ξ	
1 N 1 f 2 N 1 f 3 N 1 f 4 - - - 5 - - - 6 - - - 7 - - - 8 - 9 - -					Scale Typ
1 N 1 f 2 N 1 f 3 N 1 f 4 5 5 6 6 7 8 8		11			Scale Typ





Keysight Spectrum Analyzer - Swep			ax40 5755MHz		
U RL RF 50 Ω	AC	SENSE:PULSE		12:35:05 PM Apr 16, 2024	Frequency
Center Freq 5.695000 PASS	PNO: Fast	Trig: Free Run	#Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	Trequency
	IFGain:Low	#Atten: 30 dB	M	(r1 5.759 0 GHz	Auto Tun
Ref Offset 4.37 10 dB/div Ref 20.00 dl				-1.350 dBm	
10.0 Trace 1 Pass					Center Fre
0.00				↓ ¹	5.695000000 GH
-10.0			June and the second sec	Manchard	
-20.0					Start Free
-30.0					5.595000000 GH
-40.0	month of martin the	and the and the second and the second	and a sugar hard and	mound	
-60.0					Stop Fre
-70.0					5.795000000 GH
Start 5.5950 GHz				Stop 5.7950 GHz	CE Stor
#Res BW 1.0 MHz	#VE	SW 3.0 MHz	Sweep 1	1.000 ms (1001 pts)	CF Stej 20.000000 MH
MKR MODE TRC SCL	X		UNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Ma
1 N 1 f 2 N 1 f 3 N 1 f	5.759 0 GHz 5.725 0 GHz 5.706 0 GHz	-1.350 dBm -48.221 dBm -45.305 dBm			Freq Offse
4 4 5	5.706 0 GHZ				0 H
6 7					
8					Scale Typ
10					Log <u>Li</u> i
ISG			STATU	S	
	Band I	Edge NVNT a	ax40 5795MHz	High	
Keysight Spectrum Analyzer - Swep	t SA	SENSE:PULSE		12-42-44 DM 416, 2024	
Center Freq 5.855000		Trim Free Days	#Avg Type: RMS Avg Hold: 100/100	12:42:44 PM Apr 16, 2024 TRACE 1 2 3 4 5 6 TYPE M MARAAAAAA	Frequency
PASS	PNO: Fast IFGain:Low	#Atten: 30 dB		TYPE MWWWWW DET P NNNN	Auto Tun
Ref Offset 4.39			М	r1 5.787 0 GHz -1.569 dBm	Auto Tun
10 dB/div Ref 20.00 dl	Bm			-1.569 GBM	
10.0					Center Fre
0.00	ilmining				5.855000000 GH
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-30.0					Start Free 5.755000000 GH
-40.0	March Incor	2	3		
-50.0	"APTICAL	ะ [๛] ๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛		ų N°γαραγαλαία αντβάγολαγος βαριδιατικα 	Stop Free
-60.0					5.955000000 GH
Start 5.7550 GHz #Res BW 1.0 MHz	#V	W 3.0 MHz	Sween	Stop 5.9550 GHz (.000 ms (1001 pts)	CF Ste 20.000000 MH
MKR MODE TRC SCL	x		JNCTION FUNCTION WIDTH		Auto Ma
1 N 1 f 2 N 1 f	5.787 0 GHz 5.850 0 GHz	-1.569 dBm -48.054 dBm			_
3 N 1 f 4	5.904 6 GHz	-44.388 dBm			Freq Offse
5				E	ОН
6					Scale Type
7					7.
7					Log Li
7 8 9					Log <u>Li</u> i



		dge NVNI a	ax80 5775MHz	: High	
Keysight Spectrum Analyzer - S XI RL RF 50	wept SA Ω AC	SENSE:PULSE		12:54:46 PM Apr 16, 2024	
Center Freq 5.7950	PNO: Fast +	Trig: Free Run	#Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE M WWWW DET P NNNN	Frequency
	IFGain:Low	#Atten: 30 dB	M	kr1 5.747 0 GHz	Auto Tur
Ref Offset 4 10 dB/div Ref 20.00				-4.623 dBm	
10.0 Trace 1 Pass		Ĭ			Center Fre
0.00	1	-	lidar		5.795000000 GH
-10.0	maning				
-30.0					Start Fre 5.695000000 GH
-40.0	~		Mar John marcanth	$2 \land^3$	
00.0			The gardely law matches and the	han diller and an and the set as the set of	Stop Fre
-60.0					5.895000000 GH
Start 5.6950 GHz				Stop 5.8950 GHz	CE Sto
#Res BW 1.0 MHz	#VB	W 3.0 MHz	Sweep	1.000 ms (1001 pts)	CF Ste 20.000000 MH
MKR MODE TRC SCL	× 5.747 0 GHz	Y F -4.623 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
2 N 1 f 3 N 1 f	5.850 0 GHz 5.858 6 GHz	-47.946 dBm -44.102 dBm			Freq Offs
4 5				=	0 H
6 7 7					Coole Tur
8 9 10					Scale Typ
11					Log <u>L</u>
ISG			I STATU	IS	
	Band I	Edge NVNT a	ax80 5775MHz	z Low	
Keysight Spectrum Analyzer - S KIRL RF 50		SENSE:PULSE		12:54:34 PM Apr 16, 2024	
Center Freq 5.7550	00000 GHz PNO: Fast	Trig: Free Run	#Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 5 6	Frequency
PASS	IFGain:Low	#Atten: 30 dB			Auto Tur
Ref Offset 4 10 dB/div Ref 20.00	.38 dB dBm		IVI	kr1 5.795 2 GHz -4.600 dBm	
Log 10.0 Trace 1 Pass					Center Fre
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-50.0 photo and the tempolar to	whather wave and high to the			What complement and the	Stop Fre
					5.855000000 GH
-60.0					
-70.0				Oton 5 0550 Ot	
	#VB	W 3.0 MHz	Sweep	Stop 5.8550 GHz I.000 ms (1001 pts)	20.000000 MH
-70.0 Start 5.6550 GHz #Res BW 1.0 MHz	Х	Y F		1.000 ms (1001 pts)	CF Ste 20.000000 MH <u>Auto</u> Ma
-70.0	× 5.795 2 GHz 5.725 0 GHz	Y F -4.600 dBm -48.890 dBm		1.000 ms (1001 pts)	20.000000 MH <u>Auto</u> Ma
-70.0 Start 5.6550 GHz #Res BW 1.0 MHz MKR MODE TRC SCL	× 5.795 2 GHz	Y F -4.600 dBm		1.000 ms (1001 pts)	20.000000 MH
Start 5.6550 GHz #Res BW 1.0 MHz MKR MODE TRC SCL 1 N 2 N 3 N 4 5 6 7	× 5.795 2 GHz 5.725 0 GHz	Y F -4.600 dBm -48.890 dBm		1.000 ms (1001 pts)	20.000000 MH <u>Auto</u> Ma Freq Offs 0 H
-70.0 Start 5.6550 GHz #Res BW 1.0 MHz MKR MODE TRC SCL 1 N 1 f 2 N 1 f 3 N 1 f 4 5 6 7 8 9	× 5.795 2 GHz 5.725 0 GHz	Y F -4.600 dBm -48.890 dBm		1.000 ms (1001 pts)	20.000000 MH Auto Ma Freq Offs 0 H Scale Typ
Start 5.6550 GHz #Res BW 1.0 MHz MKR MODE TRC SCL 1 N 2 N 3 N 4 5 6 7 8	× 5.795 2 GHz 5.725 0 GHz	Y F -4.600 dBm -48.890 dBm		1.000 ms (1001 pts)	20.000000 MH <u>Auto</u> Ma Freq Offs 0 H



12. Spurious RF Conducted Emissions

12.1 Block Diagram Of Test Setup



12.2 Limit

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits: (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 e.i.r.p. of -27 dBm/MHz.

(2)For transmitters operating in the 5.725-5.85 GHz band(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

12.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
 Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.

4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

5. Repeat above procedures until all measured frequencies were complete.

12.4 Test Result

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

About:26.5GHz-40GHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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Note: A(B) Represent the value of antenna A and B and C, The worst data is Antenna A, only shown Antenna A. Antenna A: 5745-58250MHz

> **Test Graphs** Tx. Spurious NVNT a 5745MHz Emission Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω A0 10:53:37 AM Apr 16, 2024 #Avg Type: RMS Avg|Hold: 10/10 Frequency Center Freq 13.515000000 GHz RACE 1 2 3 4 Trig: Free Run #Atten: 30 dB TYPE PNO: Fast IFGain:Low Auto Tune Mkr1 24.682 378 GHz -32.297 dBm Ref Offset 4.31 dB Ref 20.00 dBm 10 dB/div Log r **Center Freq** 13.515000000 GHz 1 7.00 Start Freq 30.000000 MHz Stop Freq 27.00000000 GHz CF Step 2.697000000 GHz Start 30 MHz #Res BW 1.0 MHz Stop 27.00 GHz #Sweep 1.000 s (30001 pts) #VBW 3.0 MHz Auto 24.682 378 GHz -32.297 dBr Freq Offset 0 Hz Scale Type Log Lin **STATUS** Points changed; all traces cleared Tx. Spurious NVNT a 5785MHz Emission Keysight Spectrum Analyzer - Swept SA RI 10:56:32 AM Apr 16, 2024 TRACE 1 2 3 4 5 Frequency Center Freq 13.515000000 GHz PNO: Fast #Avg Type: RMS Avg|Hold: 10/10 Trig: Free Run #Atten: 30 dB Auto Tune Mkr1 25.141 767 GHz -32.186 dBm Ref Offset 4.39 dB Ref 20.00 dBm 10 dB/div **Center Freq** 13.515000000 GHz ø Start Freq 30.000000 MHz Stop Freq 27.00000000 GHz Start 30 MHz #Res BW 1.0 MHz Stop 27.00 GHz #Sweep 1.000 s (30001 pts) CF Step 2.697000000 GHz #VBW 3.0 MHz <u>Auto</u> Mar FUNCTION FUNCTION WIDTH 25.141 767 GHz -32.186 dBm N 1 f **Freq Offset** 0 Hz Scale Type Log Lin **K**STATUS Points changed; all traces cleared



RL RF enter Freq 13	Р	NO: Fast ←	SENSE:PULS	#Avg Type Avg Hold:		10:58:50 AM Apr 16, 20 TRACE 1 2 3 4 TYPE MWWW DET P N N N	Frequency
	IF ffset 4.38 dB 20.00 dBm	Gain:Low _	#Atten: 30 dB		Mkr1 24	4.846 895 GI	Auto Tu
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0.00							Center Fr 13.515000000 G
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60.0 70.0							27.00000000 G
tart 30 MHz					.	Stop 27.00 G	Hz CF Ste
Res BW 1.0 MH	12 X	#VD	N 3.0 MHz		Sweep 1.	000 s (30001 p	2.697000000 Gi Auto M
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3 4							Freq Offs 0
5 6 7							
9							Scale Ty
10 11							Log L
							•
s <mark>g</mark> i Points chang	ed; all traces clear			00.574514	STATUS		
Keysight Spectrum Ana	Tx. S		us NVNT r	n20 5745M		mission	
Keysight Spectrum Ana	Tx. \$ Iyzer - Swept SA 50 Ω AC .5150000000 G	Spurio	US NVNT r	#Avg Type	HZ EI	11:01:27 AM Apr 16, 22 TRACE 22 8 4 TYPE 4 DET 9 NNN	024
Keysight Spectrum Ana RL RF Center Freq 13	Tx. \$ yzer - Swept SA 50 Ω AC .5150000000 @ F	Spurio SHz	US NVNT r	E #Avg Type	HZ EI	11:01:27 AM Apr 16, 20 TRACE 1 2 3 TYPE M 3 3 DET P NN N 5.523 842 G	Frequency
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Reysight Spectrum Ana RL RF Center Freq 13 Ref Of 0 dB/div Ref 2	Tx. \$ Ivzer - Swept SA 50.0. AC .5150000000 G P IF iF set 4.31 dB	Spurio	US NVNT r	E #Avg Type	HZ EI	11:01:27 AM Apr 16, 20 TRACE 1 2 3 TYPE M 3 3 DET P NN N 5.523 842 G	Frequency
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Keysight Spectrum Ana RL RF Center Freq 13 Ref 01 0 dB/div Ref 2 0 0 0 00 0	Tx. \$ Ivzer - Swept SA 50.0. AC .5150000000 G P IF iF set 4.31 dB	Spurio	US NVNT r	E #Avg Type	HZ EI	11:01:27 AM Apr 16, 20 TRACE 1 2 3 TYPE M 3 3 DET P NN N 5.523 842 G	P24 Frequency HZ Auto Tur M Center Fre 13.515000000 G Start Fre 30.000000 M
Keysight Spectrum Ana RL RF Senter Freq 13 OdB/div Ref 0 OdB/div Ref 2 O	Tx. 3	Spurio	US NVNT r	E #Avg Type	HZ EI	11:01:27 AM Apr 16, 20 TRACE 1 2 3 TYPE M 3 3 DET P NN N 5.523 842 G	Center Fr 13.515000000 G Start Fre
Reysight Spectrum Ana RL RF center Freq 13 0 dB/div Ref 01 0 dB/div Ref 2 0 db/div Ref 3 0 db/div Ref 4 0 db/div	Tx. 3	Spurio	US NVNT r	E #Avg Type	HZ EI	11:01:27 AM Apr 16, 20 TRACE 12 3 4 TYPE 12 3 4 TYPE 12 3 4 TYPE 12 3 4 TYPE 12 3 Det 12 3 De	Part Frequency Frequency Auto Tur Center Frequency 13.515000000 G Start Frequency Stop Frequency 27.000000000 G
Keysight Spectrum Ana RL RF center Freq 13 O dB/div Ref 2 O dB/di	Tx. 3	Spurio NO: Fast Gain:Low	US NVNT r	#Avg Type Avg Hold:	Hz Ei	11:01:27 AM Apr 16, 20 TRACE 1 2 3 TYPE M 3 3 DET P NN N 5.523 842 G	Hz CF Start
Keysight Spectrum Ana RL RF center Freq 13 Ref 01 0 dB/div Ref 2 0 dB/div Ref 2	Tx. 3	Spurio SHz Gain:Low →	US NVNT r SENSE:PULSI → Trig: Free Run #Atten: 30 dB	#Avg Type Avg Hold:	Hz Ei	11:01:27 AM Apr 16, 20 TRACE 12:34 Type 12:3	Hz CF Start
Reysight Spectrum Ana RL RF center Freq 13 0 dB/div Ref 01 0 0 0 0 10 0 0 0 0 10 0 0 0 0 0 10 0	Tx. 3	Spurio SHz Gain:Low →	US NVNT r SENSE:PULST Trig: Free Run #Atten: 30 dB	#Avg Type Avg Hold:	ERMS 10/10 MKr1 24	11:01:27 AM Apr 16, 20 TRACE 12 3 4 Type 12 3 4 TraCE 12 3 4 Type	024 Frequency 15 6 Frequency 16 7 Auto Tur 17 8 Center Fm 13.515000000 G Start Fm 13.515000000 G Stop Fm 27.000000000 G Stop Fm 27.000000000 G CF Ste 415 2.697000000 G
Keysight Spectrum Ana RL RF center Freq 13 Ref 04 0 dB/div Ref 04 0 dB/div Ref 04 0 00 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1	Tx. 3	Spurio SHz Gain:Low →	US NVNT r SENSE:PULSI → Trig: Free Run #Atten: 30 dB	#Avg Type Avg Hold:	ERMS 10/10 MKr1 24	11:01:27 AM Apr 16, 20 TRACE 12 3 4 Type 12 3 4 TraCE 12 3 4 Type	024 Frequency 15 6 Frequency 16 7 Auto Tur 17 8 Center Frequency 13.515000000 G G 13.515000000 G Start Frequency 10 8 Start Frequency 10 8 Start Frequency 10 8 Start Frequency 10 9 Start Frequency 11 10 10 Start Frequency 12 0.00000000 G Stop Frequency 12 0.000000000 G CF Start Frequency 11 0 CF Start Frequency 12 0.00000000 G Auto 13 0 CF Start Frequency 14 0 M
Keysight Spectrum Ana RL RF center Freq 13 0 dB/div Ref 01 0 dB/div Ref 2 0 g g 0 dB/div Ref 2 0 g g 0 g 0 g	Tx. 3	Spurio SHz Gain:Low →	US NVNT r SENSE:PULSI → Trig: Free Run #Atten: 30 dB	#Avg Type Avg Hold:	ERMS 10/10 MKr1 24	11:01:27 AM Apr 16, 20 TRACE 12 3 4 Type 12 3 4 TraCE 12 3 4 Type	024 Frequency 13.5 Auto Tur 11 Center Fr 13.515000000 G Start Fr 30.000000 M Stop Fr 27.000000000 G Auto M 12.597000000 G Auto M Freq Offs 0
Ref OI Ref OI 0 dB/div Ref OI 0 dB/div Ref OI 10 0 0 20 0 0 30 0 0 40 0 0 50 0 0 6 0 10 0 0 20 0 0 20 0 0 20 0 0 20 0 0 20 0 0 20 0 0 20 0 0 20 0 0 20 0 0 20 0 0 20 0 0 20 0 0 20 0 0 20 0 0 20 0 0 20 0 0 20 0 0 21 0 0 22 0 0 23 0 0 24 0 0 25 0 0	Tx. 3	Spurio SHz Gain:Low →	US NVNT r SENSE:PULSI → Trig: Free Run #Atten: 30 dB	#Avg Type Avg Hold:	ERMS 10/10 MKr1 24	11:01:27 AM Apr 16, 20 TRACE 12 3 4 Type 12 3 4 TraCE 12 3 4 Type	Hz Hz Hz Hz Hz Hz Hz Hz Hz Hz

Edition: B.1

Page: 106 of 123



Keysight Spectrum Analyzer	r - Swept SA								P
	50 Ω AC		SENSE:PULSE	#Avg Ty	pe: RMS	11:12:36 AM / TRACE	pr16, 2024	Frequenc	_
senter Freq 13.5	PI	NO: Fast ↔→ Gain:Low	Trig: Free Run #Atten: 30 dB	Avg Hol	d: 10/10		M WWWWW P N N N N N		
Rof Office	et 4.39 dB	Junicow			Mkr1 2	24.936 79	5 GHz	Auto	Tur
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Keysight Spectrum Analyzer - S	Swent SA			5MHz E		
RL RF 50	Ω AC		:PULSE #Avg	Type: RMS	11:51:26 AM Apr 16, 2024 TRACE 1 2 3 4 5 6	Frequency
	PNO	: Fast ↔ Trig: Free in:Low #Atten: 30	Run Avg l	Hold: 100/100	DET PNNNN	
Ref Offset 4				Mkr1 2	5.224 475 GHz	Auto Tun
0 dB/div Ref 20.00	dBm				-32.459 dBm	
0.00						Center Fre 13.515000000 GH
10.0						
20.0					DL1 💦 1 2 dBm	Start Fre
40.0					New Josephere States	30.000000 MH
50.0 Antiparticular and the second						Oten Ere
60.0						Stop Fre 27.00000000 GH
70.0						
Start 30 MHz Res BW 1.0 MHz		#VBW 3.0 MHz		Sweep 68.	Stop 27.00 GHz 00 ms (30001 pts)	CF Ste 2.697000000 GH
IKR MODE TRC SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
1 N 1 f 2 3	25.224 475 (GHz -32.459 dB	m			Freq Offs
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s <mark>g</mark> i Points changed; a	II traces cleared	1				
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Keysight Spectrum Analyzer - S	Swept SA					
RL RF 50 Center Freq 13.515		Z	PULSE #Avg	Type: RMS Hold: 100/100	11:53:47 AM Apr 16, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW	Frequency
		:Fast ↔ Trig:Free in:Low #Atten: 30			DET	Auto Tun
Ref Offset 4 0 dB/div Ref 20.00	4.39 dB 0 dBm			Mkr1 2	5.041 978 GHz -32.566 dBm	
•g						Center Fre
0.00						13.515000000 GH
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30.0					DL1 1 <u>10 dBm</u>	Start Fre 30.000000 M⊢
						30.000000 101-
40.0						Stop Fre
50.0 						
50.0 						27.00000000 GH
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50.0 60.0 70.0 Start 30 MHz		#VBW 3.0 MHz		Sweep 68.	Stop 27.00 GHz 00 ms (30001 pts)	CF Ste 2.697000000 GH
60.0 70.0 Start 30 MHz fRes BW 1.0 MHz MKR MODE TRC SCL N 1 f	× 25.041 978 0	Y	FUNCTION	Sweep 68.		27.00000000 GH CF Ste 2.69700000 GH <u>Auto</u> Ma
60.0 Image: Constraint of the second se		Y			00 ms (30001 pts)	CF Ste 2.69700000 GH <u>Auto</u> Ma Freq Offse
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RL RF 50 RL RF 50 RL RF 50		Trig: Free Run #Atten: 30 dB	#Avg Type: RMS Avg Hold: 100/100	11:24:56 AM Apr 16, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	Frequency
Ref Offset 0 dB/div Ref 20.00	4.31 dB		Mkr1 2	4.999 725 GHz -31.281 dBm	Auto Tun
°g 10.0					Center Fre
D.00 10.0					13.515000000 G⊢
80.0				DL 1 00 dBm	Start Fre 30.000000 M⊦
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tart 30 MHz			0	Stop 27.00 GHz	CF Ste
Res BW 1.0 MHz	Х		Sweep 68.	00 ms (30001 pts)	Auto Ma
1 N 1 f 2 3 4	24.999 725 GHz	-31.281 dBm			Freq Offse
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	Tx. Spuric	" ous NVNT ac2	б етатия 20 5785MHz Е		
Keysight Spectrum Analyzer - RL RF 50	Tx. Spuric	SENSE:PULSE		11:31:24 AM Apr 16, 2024 TRACE 1 2 3 4 5 6 TYPE M WARAAAAAA	Frequency
R Points changed; a	Tx. Spuric Swept SA 10 AC 5000000 GHz PNO: Fast IFGain:Low	SENSE:PULSE	20 5785MHz E #Avg Type: RMS Avg Hold: 100/100	11:31:24 AM Apr16, 2024 TRACE 2 3 4 5 6 TYPE MWWWW DET P N N N N 4.696 762 GHz	Frequency
Keysight Spectrum Analyzer RL RF 50 Ref 0ffset O dB/div Ref 20.00	Tx. Spuric Swept SA 20 AC 5000000 GHz PNO: Fast IFGain:Low 4.39 dB	SENSE:PULSE	20 5785MHz E #Avg Type: RMS Avg Hold: 100/100	11:31:24 AM Apr 16, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNN	Frequency Auto Tun
Keysight Spectrum Analyzer - RL RF 50 enter Freq 13.51 Ref Offset dis/div Ref 20.01 9	Tx. Spuric Swept SA 20 AC 5000000 GHz PNO: Fast IFGain:Low 4.39 dB	SENSE:PULSE	20 5785MHz E #Avg Type: RMS Avg Hold: 100/100	11:31:24 AM Apr16, 2024 TRACE 2 3 4 5 6 TYPE MWWWW DET P N N N N 4.696 762 GHz	Frequency Auto Tun Center Fre
Image: Section of the sectio	Tx. Spuric Swept SA 20 AC 5000000 GHz PNO: Fast IFGain:Low 4.39 dB	SENSE:PULSE	20 5785MHz E #Avg Type: RMS Avg Hold: 100/100	11:31:24 AM Apr 16, 2024 TRACE [1] 23 4 5 6 TYPE [WWWW DET P WWWW DET P WWWW A.696 762 GHz -31.819 dBm	Frequency Auto Tun Center Fre 13.515000000 GH
Image: Section of the sectio	Tx. Spuric Swept SA 20 AC 5000000 GHz PNO: Fast IFGain:Low 4.39 dB	SENSE:PULSE	20 5785MHz E #Avg Type: RMS Avg Hold: 100/100	11:31:24 AM Apr16, 2024 TRACE 2 3 4 5 6 TYPE MWWWW DET P N N N N 4.696 762 GHz	Frequency Auto Tun Center Fre 13.515000000 GH Start Fre
Ref Offset 0 dB/div Ref Offset 0 dB/div Ref 20.00	Tx. Spuric Swept SA 20 AC 5000000 GHz PNO: Fast IFGain:Low 4.39 dB	SENSE:PULSE	20 5785MHz E #Avg Type: RMS Avg Hold: 100/100	11:31:24 AM Apr 16, 2024 TRACE [1] 23 4 5 6 TYPE [WWWW DET P WWWW DET P WWWW A.696 762 GHz -31.819 dBm	Frequency Auto Tun Center Fre 13.515000000 GH Start Fre 30.000000 MH
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Ref Offset Sector 0 dB/div Ref Offset 0 dB Ref Offset	Tx. Spuric	SENSE:PULSE	20 5785MHz E #Avg Type: RMS Avg Hold: 100/100 Mkr1 2	11:31:24 AM Apr 16, 2024 TRACE [1] 2 3 4 5 6 TYPE [1] 2 3 4 5 6 TYPE [1] 2	Frequency Auto Tun Center Fre 13.515000000 GH Start Fre 30.000000 MH Stop Fre 27.00000000 GH CF Ste 2.697000000 GH
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Keysight Spectrum Analyzer - Sw RL RF 50 Ω		SENSE:PULSE		11:35:21 AM Apr 16, 2024	
enter Freq 13.5150			#Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNNN	Frequency
Ref Offset 4.	38 dB		Mkr1 2	24.848 693 GHz -32.360 dBm	Auto Tun
OdB/div Ref 20.00	dBm			-32.360 dBm	
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tart 30 MHz Res BW 1.0 MHz	#VB	W 3.0 MHz	Sweep 68	Stop 27.00 GHz 00 ms (30001 pts)	CF Ste 2.69700000 GH
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	Tx. Spurio	us NVNT ac [_]	10 5755MHz		
Keysight Spectrum Analyzer - Sw RL RF 50 Ω	Tx. Spurio	us NVNT ac4	40 5755MHz	Emission 12:00:06 PM Apr 16, 2024 TRACE 12:34 5 6	Frequency
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Keysight Spectrum Analyzer - Sw RL RF 50 Ω enter Freq 13.515(Ref Offset 4.	Tx. Spurio	SENSE:PULSE	#Avg Type: RMS Avg Hold: 100/100	12:00:06 PM Apr 16, 2024 TRACE 12 23 4 5 G TYPE WWWWW DET NNNNN 24.983 543 GHz	Frequency
Keysight Spectrum Analyzer - Sw RL RF 50 Ω enter Freq 13.5150 Ref Offset 4. Ref Offset 4. Ref 20.00 0	Tx. Spurio	SENSE:PULSE	#Avg Type: RMS Avg Hold: 100/100	Emission 12:00:06 PM Apr 16, 2024 TRACE 1234 5 6 TYPE DET	Frequency
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RL RF enter Freq 13.5	50 Ω AC 15000000 GHz PNO: Fast	SENSE:PULSE	#Avg Type: RMS Avg Hold: 100/100	12:02:31 PM Apr 16, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N N	Frequency
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tart 30 MHz Res BW 1.0 MHz	#VE	SW 3.0 MHz	Sweep 68.	Stop 27.00 GHz 00 ms (30001 pts)	CF Ste 2.697000000 GH Auto Ma
KR MODE TRC SCL 1 N 1 f 2	× 24.659 903 GHz	Y F -32.504 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offso 0 H
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G 🛈 Points changed	: all traces cleared				
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Keysight Spectrum Analyze	Tx. Spurio	SENSE:PULSE	80 5775MHz E #Avg Type: RMS	12:50:11 PM Apr 16, 2024	Frequency
RL RF enter Freq 13.5	Tx. Spurio r - Swept SA 50 Ω AC 15000000 GHz PNO: Fast IFGain:Low	SENSE:PULSE	80 5775MHz E #Avg Type: RMS Avg Hold: 100/100	12:50:11 PM Apr16, 2024 TRACE 123456 TYPE MWWWWW DET PNNNNN	Frequency
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RL RF enter Freq 13.5 Ref Offst 0 dB/div Ref 20.	Tx. Spurio sr - Swept SA 50 Ω AC 15000000 GHz PNO: Fast IFGain:Low et 4.38 dB	SENSE:PULSE	80 5775MHz E #Avg Type: RMS Avg Hold: 100/100	12:50:11 PM Apr16, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	Frequency Auto Tur Center Fre
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RL RF center Freq 13.5 Ref Offs. 0 dB/div Ref 20. 0 dD D0. 0 dD D0. 0 dD D0. 1 dD HHz Res BW 1.0 MHz Res BW 1.0 MHz 3 dD A 4 dD A 5 A	Tx. Spurio	SENSE:PULSE	30 5775MHz E #Avg Type: RMS Avg Hold: 100/100 Mkr1 2	12:50:11 PM Apr 16, 2024 TRACE 12 24 3 5 6 TYPE 12 24 3 5 6 TYPE 12 24 3 5 6 TYPE 12 24 3 6 TYPE 12 24 5 TYPE 12 24 5 T	Frequency Auto Tun Center Fre 13.515000000 GH Start Fre 30.000000 MH Stop Fre 27.00000000 GH CF Ste 2.697000000 GH



Keysight Spectrum Analyze RL RF enter Freq 13.5	50 Ω AC	SENSE:PULSE	#Avg Type: RMS Avg Hold: 100/100	11:40:49 AM Apr 16, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW	Frequency
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tart 30 MHz Res BW 1.0 MHz	#	VBW 3.0 MHz	Sweep 68	Stop 27.00 GHz .00 ms (30001 pts)	CF Ste 2.697000000 GH
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G Decints changed	all traces cleared	III		•	
G Deints changed					
	Tx. Spu	rious NVNT ax2			
Keysight Spectrum Analyze	Tx. Spur	rious NVNT ax2	20 5785MHz #Avg Type: RMS	Emission 11:43:08 AM Apr 16, 2024 TRACE 23 4 5 6	Frequency
Keysight Spectrum Analyze	Tx. Spur	sense:PULse	20 5785MHz	Emission	Frequency
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Keysight Spectrum Analyze RL	Tx. Spur - Swept SA 50 Ω AC 15000000 GHz PNO: Fc IFGain:L at 4.39 dB	sense:PULse	20 5785MHz #Avg Type: RMS Avg Hold: 100/100	Emission 11:43:08 AM April6, 2024 TRACE [] 2 3 4 5 6 TYPE MUMUM DET PINININ 25.083 332 GHz -31.910 dBm	Frequency Auto Tun Center Fre 13.515000000 GH Start Fre 30.000000 MH Stop Fre
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Keysight Spectrum Analyze RL RF Image: colspan="2">Center Freq 13.5 Center Freq 13.5 Ref Offsec O dB/div Ref Offsec 0 dB/div Ref 20. 0 0 dB/div Ref 20. 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <t< td=""><td>Tx. Spur r-Swept SA 50 Ω AC 15000000 GHz PNO: Fa IFGain:L at 4.39 dB 00 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4</td><td>SENSE:PULSE ist →→ Trig: Free Run #Atten: 30 dB</td><td>20 5785MHz #Avg Type: RMS Avg Hold: 100/100 Mkr1 2</td><td>Emission</td><td>Frequency Auto Tun Center Fre 13.515000000 GH Start Fre 30.000000 MH Stop Fre 27.000000000 GH Auto Tun CF Ste 2.597000000 GH Auto Tun Stop Fre 2.69700000 GH Auto Ma Freq Offse 0 H</td></t<>	Tx. Spur r-Swept SA 50 Ω AC 15000000 GHz PNO: Fa IFGain:L at 4.39 dB 00 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:PULSE ist →→ Trig: Free Run #Atten: 30 dB	20 5785MHz #Avg Type: RMS Avg Hold: 100/100 Mkr1 2	Emission	Frequency Auto Tun Center Fre 13.515000000 GH Start Fre 30.000000 MH Stop Fre 27.000000000 GH Auto Tun CF Ste 2.597000000 GH Auto Tun Stop Fre 2.69700000 GH Auto Ma Freq Offse 0 H
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Keysight Spectrum Analyzer RL RF Optor Frog	50 Ω AC	SENSE:PULSE	#Avg Type: RMS	11:45:22 AM Apr 16, 2024 TRACE 1 2 3 4 5 6	Frequency
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Keysight Spectrum Analyzer	Tx. Spu - swept SA 50 Ω AC 15000000 GHz PNO: F	SENSE:PULSE		Emission	Frequency
Keysight Spectrum Analyzer RL RF Center Freq 13.5	Tx. Spu - Swept SA 50 Ω AC 15000000 GHz PNO: f IFGain:	SENSE:PULSE	0 5755MHz #Avg Type: RMS Avg Hold: 100/100	Emission	Frequency
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Keysight Spectrum Analyzer RL RF center Freq 13.5' Ref Offse 0 dB/div Ref 20.0 9 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Tx. Spu - Swept SA 50 Ω AC 15000000 GHz PNO: 1 IFGain: et 4.37 dB	SENSE:PULSE	0 5755MHz #Avg Type: RMS Avg Hold: 100/100	12:35:33 PM Apr 16, 2024 TRACE 12 23 4 5 6 TYPE 14 50 TYPE 14 50 T	Frequency Auto Tun Center Fre 13.515000000 GH Start Fre
Keysight Spectrum Analyzer RL RF center Freq 13.5' Ref Offse 0 dB/div Ref 20.0 9 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Tx. Spu - Swept SA 50 Ω AC 15000000 GHz PNO: 1 IFGain: et 4.37 dB	SENSE:PULSE	0 5755MHz #Avg Type: RMS Avg Hold: 100/100	Emission 12:35:33 PM Apr16, 2024 TRACE 12:34 5 6 TYPE MANNAN 24.280 525 GHz -32.021 dBm	Frequency Auto Tun Center Fre 13.51500000 GH Start Fre 30.000000 MH
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Keysight Spectrum Analyzer RL RF Itenter Freq 13.5' Ref Offse 0 dB/div Ref 20.1 100 0 0	Tx. Spu - Swept SA 50 Ω AC 15000000 GHz PNO: 1 IFGain: et 4.37 dB	SENSE:PULSE	0 5755MHz #Avg Type: RMS Avg Hold: 100/100	Emission 12:35:33 PM Apr 16, 2024 TRACE [] 2 3 4 5 6 TYPE MANNAN 24.280 525 GHz -32.021 dBm 1 :27 00 dBm	Frequency Auto Tun Center Fre 13.515000000 GH Start Fre 30.000000 MH Stop Fre 27.000000000 GH
keysight Spectrum Analyzer RL RF enter Freq 13.5' Ref Offse 0 dB/div Ref 20.0 0 00 0 00 0 00 0 00 0 0 0 0 0 0 0 0	Tx. Spu - Swept SA 50 2 AC 15000000 GHz PNO: 1 IFGain: at 4.37 dB 00 dBm	SENSE:PULSE	0 5755MHz #Avg Type: RMS Avg Hold: 100/100 Mkr1 2	Emission 12:35:33 PM Apr16, 2024 TRACE 12:34 5 6 TYPE MANNAN 24.280 525 GHz -32.021 dBm	Frequency Auto Tun Center Fre 13.515000000 GH Start Fre 30.000000 MH Stop Fre 27.00000000 GH CF Step 2.69700000 GH
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13. Frequency Stability Measurement

13.1 Block Diagram Of Test Setup



13.2 Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be \pm 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification)..

13.3 Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer.

2. EUT have transmitted absence of modulation signal and fixed channelize.

3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.

4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.

5. fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 106$ ppm and he limit is less than ± 20 ppm (IEEE 802.11nspecification).

6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value

7. Extreme temperature is -20°C~70°C.

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13.4 Test Result

Temperature:	26 ℃	Relative Humidity:	54%			
Pressure:	101KPa	Test Voltage:	DC 12V			
Test Mode:	TX (5.8G) Mode Frequency U-NII-3 (5745-5825MHz)					

Note: (A)(B)(C) Represent the value of antenna A and B and C, The worst data is AntennaA, only shown Antenna A.

Voltage vs. Frequency Stabilit

				Reference Frequency: 5745MHz				
	TES	ST CONDITIONS		f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
T		V nom (V)	12.00	5745.00701	5745	0.00701	1.2207	
T nom (°C)	20	V max (V)	13.80	5745.00743	5745	0.00743	1.2940	
(0)		V min (V)	10.20	5745.00486	5745	0.00486	0.8462	
		Limits		5725-5850 MHz				
		Result		Complies				

Temperature vs. Frequency Stability

				Refe	rence Frequ	iency:5745MH	Ηz
TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
		T (°C)	-20	5745.00755	5745	0.00755	1.3146
		T (°C)	-10	5745.00780	5745	0.00780	1.3585
		T (°C)	0	5745.00844	5745	0.00844	1.4699
		T (°C)	10	5745.00961	5745	0.00961	1.6724
V nom (V)	12	T (°C)	20	5745.00347	5745	0.00347	0.6038
v nom (v)	12	T (°C)	30	5745.00710	5745	0.00710	1.2363
		T (°C)	40	5745.00900	5745	0.00900	1.5668
		T (°C)	50	5745.00206	5745	0.00206	0.3589
		T (°C)	60	5745.01060	5745	0.01060	1.8445
		T (°C)	70	5745.00482	5745	0.00482	0.8383
Limits				5725-58	50 MHz		
	F	Result			Com	plies	



Voltage vs. Frequency Stability

				Reference Frequency: 5785MHz				
	TES	ST CONDITIONS		f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
T		V nom (V)	12.00	5785.00651	5785	0.00651	1.1255	
I nom (°C)	T nom 20	V max (V)	13.80	5785.01176	5785	0.01176	2.0333	
(0)		V min (V)	10.20	5785.00550	5785	0.00550	0.9503	
Limits				5725-5850 MHz				
		Result		Complies				

Temperature vs. Frequency Stability

				Reference Frequency: 5785MHz				
TEST CONDITIONS				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
		T (°C)	-20	5785.00052	5785	0.00052	0.0907	
		T (°C)	-10	5785.00316	5785	0.00316	0.5456	
		T (°C)	0	5785.00986	5785	0.00986	1.7052	
		T (°C)	10	5785.01235	5785	0.01235	2.1340	
V nom (V)	10	T (°C)	20	5785.01054	5785	0.01054	1.8217	
v nom (v)	12	T (°C)	30	5785.00483	5785	0.00483	0.8346	
		T (°C)	40	5785.01006	5785	0.01006	1.7384	
		T (°C)	50	5785.00437	5785	0.00437	0.7557	
		T (°C)	60	5785.00559	5785	0.00559	0.9666	
		T (°C)	70	5785.00573	5785	0.00573	0.9906	
Limits			5725-5850 MHz					
	F	Result		Complies				

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Voltage vs. Frequency Stability

				Reference Frequency:5825MHz				
	TES	ST CONDITIONS		f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
T		V nom (V)	12.00	5825.00241	5825	0.00241	0.4131	
T nom (°C)	20	V max (V)	13.80	5825.00456	5825	0.00456	0.7828	
V min (V) 10.20				5825.00246	5825	0.00246	0.4217	
Limits				5725-5850 MHz				
		Result		Complies				

Temperature vs. Frequency Stability

				Reference Frequency:5825MHz				
Т	EST C	ONDITIONS	i -	f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
		T (°C)	-20	5825.00101	5825	0.00101	0.1735	
		T (°C)	-10	5825.00385	5825	0.00385	0.6608	
		T (°C)	0	5825.01310	5825	0.01310	2.2497	
		T (°C)	10	5825.00486	5825	0.00486	0.8346	
V nom (V)	12	T (°C)	20	5825.00203	5825	0.00203	0.3482	
v nom (v)	12	T (°C)	30	5825.01076	5825	0.01076	1.8472	
		T (°C)	40	5825.00778	5825	0.00778	1.3352	
		T (°C)	50	5825.00762	5825	0.00762	1.3085	
		T (°C)	60	5825.01112	5825	0.01112	1.9089	
		T (°C)	70	5825.00079	5825	0.00079	0.1351	
Limits			5725-5850 MHz					
	F	Result		Complies				

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