Report No.: T190327W11-RP Page 106 of 199



30MHz~3GHz_Band4_20MHz_QPSK_1_0_LowCH20050-1720

🌉 Ag	ien	t Spi	ctru	m A	nəh	zer -		A																							
Cen	te	r F	re	e e	1.(50 S	∞ 00	0 G	H	z] .	a: Fr		EINT			Avg		n AUT g-Pw		02	:56:30 TRA	OF	234	5.6	1	Frequenc	У
10 di	Bic	liv				ffse				FG	D: F ain:	ast Low	-	#4	tten:	30 6	iB		_		 	N	/k	r1 1	.71	4 (Hz	н.	Auto	ſune
20.0 10.0																		1										_		Center 1.51500000	
-10.0 -20.0 -30.0																		l									-13:00	_		Start 30.000000	
-40.0 -50.0 -60.0	~				لليون			-		•				*****		• • • • •	***	μ.		darction	 	Julia	-		بليعتي يون			-		Stop 3.000000000	
Star #Re:	s I	BN	/ 1.	.0	_	łz					1	#VI	вw	1.0	мн	z				RIN .	_	eep	_	000	top : ms	(10	01 p	ts)	A	CF 297.000000	Step MHz Man
	N			1					1.71	4 0	Gł			2	5.57 c	iBn						on wib								Freq O	ffset 0 Hz
MSG																						STA	TUS						_		

3GHz~10GHz Band4 20MHz QPSK 1 0 LowCH20050-1720

M Ag	ilent Spec	trum A	nałyzer - Sw	ept SA	_		_	_		_		-		-			- 4 ×
Con	tor E	RE	50 11.500				_	SER	NSE:INI		Ava		LIGN AUTO	02:57:	13 PN Ap	r 17, 2019 2 3 4 5 6	Frequency
Cell		eq	11.500	0000	PN	O: Fast ain:Low		tig: Free				,,,			TYPE MA	NNNNN	
10 di	B/div		Offset 1 7 30.00											Mkr3 5 -3		GHz dBm	Auto Tune
20.0 10.0 0.00																	Center Freq 11.500000000 GHz
-10.0 -20.0 -30.0	2		♦ ³			b. b.:						L. L	فليجموه				Start Freq 3.000000000 GHz
-40.0 -50.0 -60.0																	Stop Freq 20.000000000 GHz
#Re	t 3.00 s BW	1.0	MHz			#VE	3W 1.0						Sweep 2		s (100	1 pts)	CF Step 1.700000000 GHz Auto Man
1 2		1		2	19.150 3.440 5.160) GHz) GHz) GHz	-3	1.94 dE 9.22 dE 5.80 dE	3m	PUNC	TION	Fun		FUN			Freq Offset 0 Hz
MSG													STATU	5			

30MHz~3GHz Band4 20MHz QPSK 1 0 MidCH20175-1732.5

Agilent Spectrum Analyzer - Swept SA			
Center Freq 1.515000000	GHz Trig: Free Run	ALIGN AUTO 02:58:38 PM Apr 17, 2019 Avg Type: Log-Pwr TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.9 dB 10 dB/div Ref 30.00 dBm	PN0: Fast ++- Trig: Free Run IFGain:Low #Atten: 30 dB	Mkr1 1.725 g GHz 24.92 dBm	Auto Tune
20.0 10.0			Center Freq 1.515000000 GHz
-10.0		-1900 (600	Start Freq 30.000000 MHz
-40.0 Aphanony	n yanalar yanga kanalaran yana dalara dalar d	a la salata and and a salat and a salat	Stop Freq 3.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz		Stop 3.000 GHz Sweep 2.000 ms (1001 pts) FUNCTION FUNCTION WIDTH FUNCTION VALUE	CF Step 297.000000 MHz <u>Auto</u> Man
N 1 f 1. 2 3 -	725 9 GHz 24.92 dBm		Freq Offset 0 Hz
M9G		STATUS	

3GHz~10GHz_Band4_20MHz_QPSK_1_0_MidCH20175-1732.5

												_
									Analyzer - Swe	ipectrum /		
Frequency	57 PN Apr 17, 2019	02:58:57	ALIGN AUTO		NSE:INT	SE			F 50 £			R
	TYPE M WWWW	TY	: Log-Pwr	Avg Type	Run	Trig: Fre	HZ W: Fast H	000000 G	11.500	Freq	nter	Cen
	DET P NNNNN	D				#Atten: 3	WO: Fast	IFI IFI				
Auto Tun	.198 GHz	Mkr2 5 1									_	
	5.75 dBm		N N						f Offset 1			
	5.75 aBm	-35.						dBm	ef 30.00	v Re	B/div	10 d Log
Center Fre												20.0
											1	
11.50000000 GH					-						-	10.0
											-	0.00
	-10.00 (De)											-10.0
Start Fre												
3.00000000 GH		-			-				▲3	_∧1		-20.0
	1 A Ballante									2Υ .		-30.0
	April 1 and 1 and 1	ماريد ماري ماري ماري ماري ماري ماري ماري ماري	and the second	- were procedo	الهجير بيلدود	الاردفط الجهوديين	- HALVAN	- Angelanter	and the second	-	- 22	-40.0
Stop Fre												-60.0
20.00000000 GH												
	-	-						-			-	-60.0
		-										_
CF Ste 1.70000000 GH	20.000 GHz									000 G W 1.0		
Auto Ma	s (1001 pts)	28.33 ms (sweep z			1.0 MHz	#VB		MHZ	W 1.0	IS BI	#Re
Muto Mia	CTION VALUE +	H FUNCTI	VOTION WOTH	TION FUI		Y		x	1	THC SC		MKR
					3m	-31.90 dl	3 GHz			1 1	N	1
Freq Offse		-			sm Sm	-40.22 di -35.75 di	5 GHz 8 GHz	3,45	-		N	2
0 H					2111	-99.10 01	U UI IL	w.1.*				4
	-											5
										++	-	6
											_	8
											_	9
										++	-	10
										• •	_	
		115	STATUS									MSG

30MHz~3GHz_Band4_20MHz_QPSK_1_0_HighCH20300-1745

		nalyzer - Swe									
Center F	req '		00000 GH	z		Run	Avg	ALIGN AUTO Type: Log-Pwr	TRA	M Apr 17, 2019	Frequency
10 dB/div		Offset 13	IFC	KO: Fast * Gain:Low	#Atten: 3	dB		м	kr1 1.73	7 8 GHz 66 dBm	Auto Tune
20.0 10.0						1					Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0										-10.00 ilDin	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	-turnaka	مۇ%ىلىم ى		****		للمعهمه ال		an a	and the second s		Stop Freq 3.00000000 GHz
Start 30 M #Res BW	1.0		*	#VB	W 1.0 MHz	FIN		Sweep	2.000 ms (. /	CF Step 297.000000 MHz Auto Man
1 N 1 2 3 4 5 6 6 7 7 8 9 9 9 10 11	1 1		1.737	8 GHz	24.66 dE						Freq Offset 0 Hz
56								STAT	JS		

3GHz~10GHz_Band4_20MHz_QPSK_1_0_HighCH20300-1745

🛤 Agilent Spe	ctrum Anal		t SA								
Center F	req 1	50 Ω 1.5000	00000 G	Hz		NSE:INT	Avg Type	ALIGN AUTO e: Log-Pwr	TRAC	M Apr 17, 2019	Frequency
10 dB/div		offset 13. 30.00 d	9 dB	O: Fast ↔ iain:Low	#Atten: 3			1	Mkr3 5.2	35 GHz 74 dBm	Auto Tune
20.0 10.0											Center Freq 11.500000000 GHz
-10.0 -20.0 -30.0	****	♦ ³			Andaprala						Start Freq 3.00000000 GHz
-40.0						an dirimentali					Stop Freq 20.000000000 GHz
Start 3.00 #Res BW	1.0 M			#VBV	¥ 1.0 MHz			<u> </u>	8.33 ms (.000 GHz 1001 pts)	CF Step 1.700000000 GHz Auto Man
1 N 2 N 3 N 4 5 6 7 7 8 9 9 10			19,236 3,490 6,237	5 GHz 5 GHz 5 GHz	-31.66 df -40.30 df -33.74 df	3m 3m	CHON FUI	NETION WIDTH			Freq Offset 0 Hz
MSG								STATU	s		

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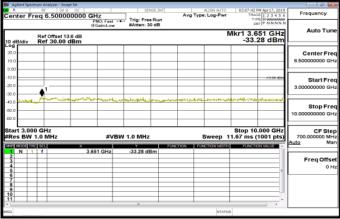
Report No.: T190327W11-RP Page 107 of 199



30MHz~3GHz_Band5_1_4MHz_QPSK_1_0_LowCH20407-824.7

M Agilent Spectre	um Analyzer - Swep	ŧ SA							
Center Fre	eq 1.51500	0000 GHz		ISE:INT		ALIGN AUTO	TRAC	M Apr 17, 2019	Frequency
	Ref Offset 13. Ref 30.00 d	IFGain:Lo 6 dB IBM) dB		Mk	r3 2.474	4 1 GHz 58 dBm	Auto Tune
20.0		V1							Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0				^ 2			▲ 3	-10.00 (Dr)	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	an a gallan da baran	and a second	Antonia and a second	and the second s	ala ana ang tao	esterior.	and a high	at relation from the second	Stop Free 3.000000000 GHz
Start 30 M #Res BW 1	.0 MHz	#	VBW 1.0 MHz	FUNC			.000 ms (.000 GHz 1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 1 2 N 1 3 N 1 4 5 6	1	826.0 MHz 1.649 4 GHz 2.474 1 GHz	-40,48 dE	m				_	Freq Offset 0 Hz
7 8 9 10 11									
MSG			m			STATUS		•	I

3GHz~10GHz_Band5_1_4MHz_QPSK_1_0_LowCH20407-824.7



30MHz~3GHz_Band5_1_4MHz_QPSK_1_0_MidCH20525-836.5

M Agilent Spectrum Analyzer - Swept SA					
Center Freq 1.515000000) GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	03:08:54 PM Apr 17, 2019 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.6 dB 10 dB/div Ref 30.00 dBm	PNO: Fast +++ IFGain:Low	#Atten: 30 dB	Mk	r3 2.509 5 GHz -37.83 dBm	Auto Tune
200 100	V1				Center Freq 1.515000000 GHz
-10.0		^2		-19:00 iEm	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0			a, i general constitution all all and the second of the second second second second second second second second	and a second	Stop Freq 3.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz			Sweep 2	Stop 3.000 GHz .000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 1 f 2 N 1 f 1 3 N 1 f 2 4 - - - - 5 - - - - 6 - - - - 7 - - - - 9 - - - -	837,8 MHz ,673 0 GHz ,509 5 GHz	23.92 dBm -39.38 dBm -37.83 dBm			Freq Offset 0 Hz
9 10 11 * wsg		191.	STATUS	•	

3GHz~10GHz_Band5_1_4MHz_QPSK_1_0_MidCH20525-836.5

📜 Agile	nt Sp	ectru		alyzer -																				
Cente	er I	Fre	₩ Pi		50 Ω 000			Hz	2		1		15E 1		Av	а Тур		N AUTO		TF	NOE	Apr 17, 1 2 3 4	5.6	Frequency
10 dB/	ldiv			Offse 30.0			3	PNK	D: Fas	it	#At	g: Free ten: 30	dB	n 1					Mk	r1 3	.79	8 G 5 dE	Hz	Auto Tu
20.0 10.0		_																					_	Center Fr 6.50000000 G
-10.0				1																		-13:00	tim	Start Fr 3.000000000 G
40.0 60.0 60.0		-	~	6.,	4.041	~~~	- M	4,7,10	N., M	*****	let al	warte-Jep	(***	ەن بىر	402×.11	م-ةطي	-	ng de glein.	-	, me, a.).		nd 2. Algo	94.H	Stop Fr 10.00000000 G
Start #Res	BV	V 1	0.	ИHz					#\	νвν	/ 1.0	MHz						<u> </u>	11.6	7 ms	; (1	000 G 001 p		CF Ste 700.000000 M Auto M
1 N 2 3 4 5 6 7 7 8 9 10 11							3.	798	GHz			.35 dB	3m		-11281			ON MD		P CRC		VALUE		Freq Offs
50																		STAT	US					L

30MHz~3GHz_Band5_1_4MHz_QPSK_1_0_HighCH20643-848.3

	trum Analyze										
Center F	req 1.5	50 Q DC	GHz		1	SE:INT	Avg	ALIGN AUTO Type: Log-Pwr	TRA	PM Apr17, 2019	Frequency
10 dB/div		set 13.6 dB).00 dBm	PNO: IFGain	Elow	#Atten: 30			м	kr3 2.54	4 9 GHz 65 dBm	Auto Tune
20.0 10.0			¥1								Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0	_					^ 2			▲3	-10.00 iDin	Start Freq 30.000000 MHz
-40.0 -60.0 -60.0	*****			ici <u>s al contan</u> ts			alin ya kati ku	and an a share and	and marked	and an a full of	Stop Freq 3.000000000 GHz
Start 30 M #Res BW		z		#VBW	1.0 MHz			Sweep 2	Stop 3 2.000 ms (.000 GHz 1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 1 2 N 1 3 N 1 4 5 6 6 7 8 8 9 9 10 11		1.6	849.7 M 696 6 G 544 9 G	Hz	24.34 dB -37.86 dB -37.66 dB	m		FUNCTION WIDTH		CN VALUE	Freq Offset 0 Hz
MSG								STATU	5		

3GHz~10GHz_Band5_1_4MHz_QPSK_1_0_HighCH20643-848.3

🛤 Agilent Sper	trum Anal		t SA								
Center F	req 6.	50000	0000 GH	z		NSE:INT	Avg Ty	ALIGN AUTO pe: Log-Pwr	TRA	PM Apr 17, 2019	Frequency
10 dB/div		ffset 13. 30.00 d	iFC 6 dB	¥O:Fast ⊶ Sain:Low	#Atten: 3	0 dB			Mkr1 4.9	39 GHz 50 dBm	Auto Tune
20.0 10.0											Center Freq 6.500000000 GHz
-10.0 -20.0 -30.0										-10.00 iDin	Start Freq 3.000000000 GHz
-40.0 0000000000000000000000000000000000	- Brite	pert-spend	and all all all all all all all all all al			a ^{ht} hear _{Co} lland	ng ()#4/40-29.00	alaronimitahko	Ung Sidag 193		Stop Freq 10.000000000 GHz
Start 3.00 #Res BW	1.0 M		×		V 1.0 MHz	FU		Sweep 1	1.67 ms (.000 GHz 1001 pts)	CF Step 700.000000 MHz Auto Man
1 N 1 2 3 4 5 6 7 8 9 10	1		4.93	9 GHz	-33.50 dl	Bm					Freq Offset 0 Hz
8 9 10 11 *								STATU	5		

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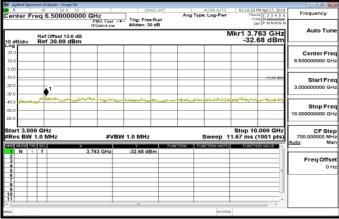
Report No.: T190327W11-RP Page 108 of 199



30MHz~3GHz_Band5_3MHz_QPSK_1_0_LowCH20415-825.5

🌉 Agilent Spectrum Analyzer - Swe					
Center Freq 1.51500	00000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	03:15:17 PM Apr 17, 2019 TRACE 1 2 3 4 5 6 TYPE M WWWW	Frequency
Ref Offset 13		#Atten: 30 dB	M	cr3 2.476 5 GHz -37.41 dBm	Auto Tune
20.0 10.0	V1				Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0				-1960 iDe	Start Freq 30.000000 MHz
-40.0 -60.0			an a		Stop Freq 3.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBV	V 1.0 MHz	Sweep 2	Stop 3.000 GHz .000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 1 f 2 N 1 f 3 N 1 f 4 5 6	826.0 MHz 1.651 0 GHz 2.476 5 GHz	24.18 dBm -38.94 dBm -37.41 dBm			Freq Offset 0 Hz
7 8 9 10 11					
MSG		18	STATU	5	

3GHz~10GHz_Band5_3MHz_QPSK_1_0_LowCH20415-825.5

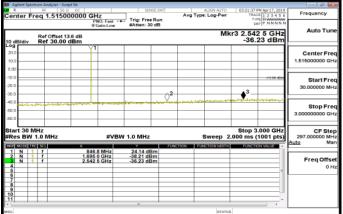


30MHz~3GHz Band5 3MHz QPSK 1 0 MidCH20525-836.5

M Agilent Spe	ctrum An	alyzer - Swep	rt SA									0 6 8
Center F	req 1	50 S	00000	Hz		SET	VSE:INT	Avg	JGN AUTO Log-Pwr	TRA	PM Apr 17, 2019	Frequency
10 dB/div	Ref	Offset 13 ' 30.00 c	.6 dB	PNO: Fat IFGain:Lo	at ++-	#Atten: 3			 Mk	r3 2.50	9 5 GHz 04 dBm	Auto Tune
20.0 10.0			Y	1								Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0							^2			▲3	-10.00 ilDin	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0		AND AND AND A		******					 erse_ddamerri	n philosophie	and the second second	Stop Freq 3.000000000 GHz
Start 30 I #Res BW	1.0		×	#	VBW 1	1.0 MHz	FU	NCTION	weep 2	.000 ms	1.000 GHz (1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 2 N 3 N 4 5 6 7 8 9 10			1.67	7.8 MHz 3 0 GHz 9 5 GHz		24.61 df -39.81 df -38.04 df	3m					Freq Offset 0 Hz
9 10 11 • •						10			STATUS		•	

3GHz~10GHz_Band5_3MHz_QPSK_1_0_MidCH20525-836.5 Agrent preutor # R 59 2 00 00 enter Freq 6.500000000 GHz PNO: Fast →→ Trig: Free Run #Atten: 30 dB ALIGN AUTO Avg Type: Log-Pw Freque Auto Tu Mkr1 3.728 GHz -33.10 dBm Ref Offset 13.6 Ref 30.00 dB Center Fre Start Fre Stop Fre Stop 10.000 11.67 ms (1001 CF Ste 1.0 MH #VBW 1.0 MH: Sween Freq Offs

30MHz~3GHz_Band5_3MHz_QPSK_1_0_HighCH20635-847.5



3GHz~10GHz Band5 3MHz QPSK 1 0 HighCH20635-847.5

		nalyzer - Swep									
Center F	req (50 S	0000 GH	z		NSE:INT	Avg T)	ALIGN AUTO pe: Log-Pwr	TRA	PM Apr 17, 2019	Frequency
10 dB/div		Offset 13 7 30.00 c	iFG	Ю:Fast ⊷ Jain:Low	#Atten: 3	0 dB			Mkr1 3.6	65 GHz 83 dBm	Auto Tune
20.0 10.0											Center Freq 6.50000000 GHz
-10.0 -20.0 -30.0	•	1								-10.00 iEm	Start Freq 3.000000000 GHz
-40.0 \$******* -50.0 -60.0		down y y la		man al man	hand ges and an an and a grand	- Alaka and	in the second	وادولا معياهوم معياه ومعياه		n an temperatura	Stop Freq 10.000000000 GHz
Start 3.00 #Res BW	1.0 [MHz	×	#VB	W 1.0 MHz		CTXW 1	Sweep	11.67 ms	.000 GHz 1001 pts)	CF Step 700.000000 MHz Auto Man
1 N 1 2 3 4 5 6 7 7 8 9 9 10 11	1			5 GHz	-32.83 df						Freq Offset 0 Hz
15G								STATU	JS		

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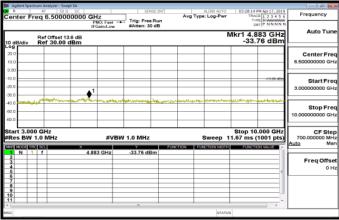
Report No.: T190327W11-RP Page 109 of 199



30MHz~3GHz_Band5_5MHz_QPSK_1_0_LowCH20425-826.5

🌉 Agilent	Spectrum A	nalyzer - Swep	it SA									
Center	r Freq	50 Q	0000 G	Hz		SENSE:INT	Avg		LIGN AUTO	TRAC	Apr 17, 2019	Frequency
				PNO: Fast FGain:Low	#Atten:	30 dB			Mk	-	9 5 GHz	Auto Tune
10 dB/di		f 30.00 c	lBm							-36.	50 dBm	
20.0			×	1		-						Center Freq 1.515000000 GHz
-10.0						-		_			-10.00 (Din	Start Freq 30.000000 MHz
-30.0	, may like li	have the state of		ingestander ges		a a cara da	2	****	destant of the	* ³	Jungermanners	Stop Freq
-60.0 Start 30 #Res B		MHz		#V	BW 1.0 MH	7		,	weep 2	Stop 3	.000 GHz 1001 pts)	CF Step 297,000000 MHz
MKR MOD	e ne se		х		Y		FUNCTION		<u> </u>		INVALUE -	<u>Auto</u> Man
1 N 2 N 3 N 4 5			1.65	6.0 MHz 3 0 GHz 9 5 GHz	25.80 -40.34 -36.50	dBm						Freq Offset 0 Hz
5 6 7 8 9 10 11											<u> </u>	
MSG					191				STATUS			

3GHz~10GHz_Band5_5MHz_QPSK_1_0_LowCH20425-826.5



30MHz~3GHz Band5 5MHz QPSK 1 0 MidCH20525-836.5

M Agilent Sper	ctrum An	alyzer - Swep	h SA									0 6 8
Center F	⊮ req1	50 Q	0000 0	SHz		1	VSE:INT	Avg	LIGN AUTO	TRA	PN Apr 17, 2019	Frequency
10 dB/div	Ref	Offset 13. ' 30.00 d	6 dB	PNO: Fa IFGain:L	ow	#Atten: 3			 Mk	r3 2.50	9 5 GHz 21 dBm	Auto Tune
20.0 10.0			¥	(1								Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0							.2			3	-10.00 ilDin	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0		ميادر رونديني ا	,	*******		*****	^2	4	 p-bray-soft-b	And many sectors		Stop Freq 3.000000000 GHz
Start 30 F #Res BW	1.0 1		×	#	¢VBW	1.0 MHz	FU	NCTION	weep 2	.000 ms	.000 GHz 1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 1 2 N 1 3 N 1 5 6 7 8 9 10			1.67	14.9 MH 73 0 GH 19 5 GH	z	24.63 df -41.78 df -37.21 df	3m				_	Freq Offset 0 Hz
11 •					-	181			STATUS			
									JINTO			

Agent spectral S0 0 DC State State enter Freq 6.500000000 GHz Trig: Free Run PNC: Fast → #Atten: 30 dB ALIGN AUTO Avg Type: Log-Pw Freque Auto Tu Mkr1 4.673 GHz -33.05 dBm Ref Offset 13.6 dB Ref 30.00 dBm Center Fre Start Fre ٠ Stop Fre Stop 10.000 11.67 ms (1001 CF Ste 3.000 GHZ BW/ 1.0 MH #VBW 1.0 MH: Sween Freq Offs

3GHz~10GHz_Band5_5MHz_QPSK_1_0_MidCH20525-836.5

30MHz~3GHz_Band5_5MHz_QPSK_1_0_HighCH20625-846.5

								t SA	Analyzer - Swep	nt Spectrum /	🛤 Agik
Frequency	M Apr 17, 2019	TRAC	ALIGN AUTO	Avg Typ	ISE:INT		z	0000 GH	50 £ 1.51500	er Freq	Cent
Auto Tune	9 5 GHz 09 dBm	r3 2.53	Mk		0 dB	#Atten: 3	90: Fast Sain:Low	6 dB	f Offset 13		10 dB
Center Freq 1.515000000 GHz								∨1			20.0 10.0
Start Freq 30.000000 MHz	-10.00 (De	3			~2						-10.0 -20.0 -30.0
Stop Freq 3.00000000 GHz	mmakapere	ad an an an an ar	and the design of the second secon		<u></u>	مرومین میں مر			Juli - Lakara	productions	-40.0 -50.0 -60.0
	.000 GHz 1001 pts)	.000 ms (Sweep 2			1.0 MHz	#VBW			30 MHz BW 1.0	#Res
Freq Offset 0 Hz		1000-10			3m 3m	24.10 d -40.02 d -37.09 d	8 MHz 0 GHz 5 GHz	846.) 1.693 (2.539)			1 2 4 5 6 7 8 9
			STATUS								10 11 •

3GHz~10GHz_Band5_5MHz_QPSK_1_0_HighCH20625-846.5

📕 Agilent Spec	ctrum A	nalyzer - Swej									
Center F	req (50 S	00000 GI	Ηz		NSE:INT	Avg Typ	ALIGN AUTO e: Log-Pwr	TRAC	M Apr 17, 2019	
10 dB/div		Offset 13	iř 1.6 dB	NO: Fast + Gain:Low	#Atten: 3	0 dB		1	/kr1 4.3	PNNNN	Auto Tune
20.0 10.0											Center Freq 6.500000000 GHz
-10.0 -20.0 -30.0			1							-10.00 iDin	Start Freq 3.000000000 GHz
-40.0	~~~~	1.12 C	4. ₁₀ ,4.4° 6.4° 1.40	ang paganan ang		lineg)(rub)	riensettinderete	agents differen		haran ayan	Stop Freq 10.000000000 GHz
Start 3.00 #Res BW	1.0	MHz	×		W 1.0 MHz	FUN		Sweep 1	1.67 ms (.000 GHz 1001 pts)	CF Step 700.000000 MHz Auto Man
1 N 1 2 3 4 5 6	1		4.3	30 GHz	-32.83 d	Bm				_	Freq Offset 0 Hz
5 6 7 8 9 10 11											
MSG								STATU	s		

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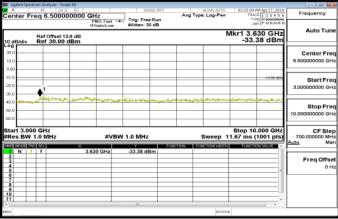
Report No.: T190327W11-RP Page 110 of 199



30MHz~3GHz_Band5_10MHz_QPSK_1_0_LowCH20450-829

🎒 Agilent Spectrum Analyzer - Swept SA					
Center Freq 1.5150000	× 000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	03:32:52 PM Apr 17, 2019 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.6	PNO: Fast ++ IFGain:Low	Trig: Free Run #Atten: 30 dB	Mk	r3 2.487 0 GHz	Auto Tune
10 dB/div Ref 30.00 dB				-37.95 dBm	
20.0	V1				Center Freq 1.515000000 GHz
-10.0		^2		-10:00 (Dir	Start Freq 30.000000 MHz
-40.0		sense sense	an a	agen and a state and a stat	Stop Freq 3.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBW	1.0 MHz		Stop 3.000 GHz .000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
MORE NUMBER INC. MORE SEC. 1 N 1 f 2 N 1 f 3 N 1 f 4	x 826.0 MHz 1.658 0 GHz 2.487 0 GHz	22.70 dBm -38.76 dBm -37.95 dBm	PUNCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offset 0 Hz
7 8 9 10 11					
MSG			STATUS		

3GHz~10GHz_Band5_10MHz_QPSK_1_0_LowCH20450-829



30MHz~3GHz Band5 10MHz QPSK 1 0 MidCH20525-836.5

Agilent Spectrum Analyzer - Swept SA					
Center Freq 1.515000000	GHz	SENSE:INT Free Run	me:Log-Pwr TB	ACE 1 2 3 4 5 6	Frequency
Ref Offset 13.5 dB 10 dB/div Ref 30.00 dBm		n: 30 dB	Mkr3 2.50	9 5 GHz .87 dBm	Auto Tune
20.0 10.0	¥1				Center Freq 1.515000000 GHz
-10.0		2	3	-10:00 tDm	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0		and the second	entre en en este de la construction de la const	had the second	Stop Freq 3.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBW 1.0 N		Sweep 2.000 ms		CF Step 297.000000 MHz Auto Man
1 N 1 1 2 N 1 1 1.	673 0 GHz -40.1	16 dBm 4 dBm 7 dBm			Freq Offset 0 Hz
			STATUS	*	

Agrient Spectrum antress of a constraint of the second sec ALIGN AUTO Avg Type: Log-Pw Freque Auto Tu Mkr1 3.973 GHz -33.69 dBm Ref Offset 13.6 Ref 30.00 dB Center Fre Start Fre **•**¹ Stop Fre Stop 10.000 11.67 ms (1001 CF Ste 3.000 GHz BW 1.0 MH #VBW 1.0 MH: Sween Freq Offs

3GHz~10GHz_Band5_10MHz_QPSK_1_0_MidCH20525-836.5

30MHz~3GHz_Band5_10MHz_QPSK_1_0_HighCH20600-844

💓 Agilent Spe	ctrum Analyzer - Se									
Center F	req 1.5150	000000 GH2	z		SE:INT	Avg Ty	ALIGN AUTO pe: Log-Pwr	TRA	PM Apr 17, 2019	
10 dB/div	Ref Offset	IFG	D: Fast ++ ain:Low	#Atten: 30) dB		Mk	r3 2.53	2 0 GHz 62 dBm	Auto Tune
20.0 10.0		¥1								Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0					^ 2			4 ³	-10 00 tEm	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	na an a		ingositu ma		Ω.			yun nehru	a transformation of the	Stop Freq 3.00000000 GHz
Start 30 #Res BW	1.0 MHz		#VBW	/ 1.0 MHz			Sweep 2	.000 ms (.000 GHz 1001 pts)	CF Step 297.000000 MHz Auto Man
		840,8 1,688 0 2,532 0	GHz	25.37 dE -40.03 dE -38.62 dE	lm m			PUNCTI	=	Freq Offset 0 Hz
8 9 10 11										

3GHz~10GHz Band5 10MHz QPSK 1 0 HighCH20600-844

🛤 Agilent Sper	trum Ana		t SA								
Center F	req 6.	50000	0000 GH	łz		NSE:INT	Avg T)	ALIGN AUTO	TRA	PM Apr 17, 2019	Frequency
10 dB/div		fset 13. 30.00 d	iF 6 dB	NO: Fast * Sain:Low	#Atten: 3	0 dB			Mkr1 4.8	76 GHz 65 dBm	Auto Tune
20.0 10.0											Center Freq 6.500000000 GHz
-10.0 -20.0 -30.0			1							-10.00 iDin	Start Freq 3.000000000 GHz
-40.0 (Mathe- -50.0 -60.0		-	A. A. SHOP A.	han an a	- Chulgeroon	en-40,00~7%	ag nisantu yawa	Solenamerica in the	an a	laine State a lainte france	Stop Freq 10.000000000 GHz
Start 3.00 #Res BW	1.0 M		×		W 1.0 MHz	FU	NETION	Sweep 1	1.67 ms (.000 GHz 1001 pts)	CF Step 700.000000 MHz Auto Man
1 N 1 2 3 4 5 6 7 8 9 9 10	1		4.87	6 GHz	-32.65 dl	Bm					Freq Offset 0 Hz
8 9 10 11 *					m			STATU			

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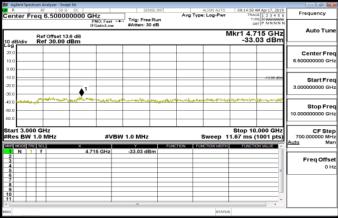
Report No.: T190327W11-RP Page 111 of 199



30MHz~3GHz_Band13_5MHz_QPSK_1_0_LowCH23205-779.5

🌉 Agilent Sp	ectrum Analyzer									
Center	⊮ Freg 1.51	50 9 DC	Hz		SE:INT		LIGN AUTO	TRAC	M Apr 17, 2019	Frequency
		6	NO: Fast ↔ Gain:Low	#Atten: 30					PNNNNN	Auto Tune
10 dB/div		et 13.6 dB .00 dBm					MK	r3 2.338 -37.1	35 GHz B1 dBm	
20.0		Y1								Center Freq
10.0										1.515000000 GHz
-10.0									-10.00 (Dr)	Start Freq
-20.0			-							30.000000 MHz
-30.0					() ²		♦ ³		martin	
-40.0	an and a state of the state of	and a start of the	and the second second		and a second state					Stop Freq 3.000000000 GHz
-60.0		_								3.00000000 GHz
Start 30 #Res BV	MHz V 1.0 MHz		#VBW	/ 1.0 MHz			Sweep 2	Stop 3 .000 ms (.000 GHz 1001 pts)	CF Step 297.000000 MHz
MOR MORE 1 N	THE BOL	×	4 MHz	24.07 dB		TION	CTION WOTH	FUNCTION	IN VALUE	<u>Auto</u> Man
2 N 3 N		1.559	0 GHz	-41.50 dB -37.81 dB	m				_	Freq Offset
4 5			_		_					0 Hz
6 7 8 9			-		-					
10										
11					-				•	
MSG							STATUS			

3GHz~10GHz_Band13_5MHz_QPSK_1_0_LowCH23205-779.5



30MHz~3GHz_Band13_5MHz_QPSK_1_0_MidCH23230-782

M Agilent Spectrum Analyzer - Swept SA					1 1 1
Center Freq 1.5150000	00 GHz	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr	09:17:21 AM Apr 17, 2019 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.6 di 10 dB/div Ref 30.00 dBn	PNO: Fast ++ IFGain:Low B	#Atten: 30 dB	Mk	r3 2.346 0 GHz -36.07 dBm	Auto Tune
20.0 10.0	¥1				Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0					Start Freq 30.000000 MHz
-40.0 -50.0 -60.0			and a second		Stop Freq 3.00000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBW	1.0 MHz	Sweep 2	Stop 3.000 GHz 000 ms (1001 pts)	CF Step 297.000000 MHz Auto Man
1 1 f 2 N 1 f 3 N 1 f 4 6 6 6 6 7 8 8 9 9 10 11	781.4 MHz 1.564 0 GHz 2.346 0 GHz	24.81 dBm -39.94 dBm -36.07 dBm			Freq Offset 0 Hz
et i i i i	1	m		•	
MSG			STATUS		

3GHz~10GHz Band13 5MHz QPSK 1 0 MidCH23230-782

in address the	ectrum Analyzer - Si								
Center F	reg 6.5000	000000 GHz		ENSE:INT		ALIGN AUTO CLOG-Pwr	TRAC	M Apr 17, 2019	Frequency
10 dB/div	Ref Offset	IFGain: 13.6 dB	ast Trig: Fr Low #Atten:	ae Run 30 dB		1	™ /kr1 4.8	PNNNN	Auto Tun
20.0 10.0									Center Fre 6.50000000 GH
-10.0 -20.0 -30.0		1						-10.00 dBm	Start Fre 3.000000000 GF
40.0 40.0 50.0 60.0	Land Land Land	والمعالم المحالم المحالي والمحال	and the second second	and the second second	the second second	andread and a start of the		her das gelegende gele	Stop Fre 10.000000000 Gi
Start 3.0 Res BW	1.0 MHz		#VBW 1.0 MH		ICTION FUI	<u> </u>	1.67 ms (*	. /	CF Ste 700.000000 Mi Auto M
	1 1	× 4.862 GI	Hz -32.81 c				70%-110		Freq Offs
2 3 4 5 6 7 8 9 9 10									01

30MHz~3GHz_Band13_5MHz_QPSK_1_0_HighCH23255-784.5

	trum Anal	yzer - Swept S												0 6
Center F	req 1.		000 (GHz		1	NSE:INT			ALIGN AUTO	TRA	AM Apr 17, 20: CE 1 2 3 4 5 PE M WWWW	6	Frequency
10 dB/div		ffset 13.6 30.00 dE		PNO: Fr IFGain:L	ow	#Atten: 3				Mk	r3 2.35	3 5 GH	Z	Auto Tune
20.0 10.0			¥1											Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0		_		+			2				3	-10:00:00	-	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0		91-11-10-3 5	باليوين		and any A		Q		-Areirandi			entrinundensuut		Stop Freq 3.00000000 GHz
Start 30 P #Res BW	1.0 M	Hz	×			1.0 MHz		FUNCTIO		Sweep 2	.000 ms	3.000 GH (1001 pts	5)	CF Step 297.000000 MHz <u>Auto</u> Man
1 N 1 2 N 1 3 N 1 4 5 6 7 7 8 9	1		1.5	84.4 MH 69 0 GH 53 5 GH	z	24.59 d -41.32 d -38.79 d	3m							Freq Offset 0 Hz
7 8 9 10 11														
MSG										STATUS	s			

3GHz~10GHz_Band13_5MHz_QPSK_1_0_HighCH23255-784.5

M Agilent Spec	trum A											0
Center F	req (50 £		Hz		sen	SE:INT	Avg T)	ALIGN AUTO	TRA	AM Apr 17, 2019 CE 1 2 3 4 5 6 PE M 444 5 6	
10 dB/div		Offset 13	3.6 dB	PNO: Fast IFGain:Low		Atten: 30	dB			Mkr1 4.3	302 GHz 39 dBm	Auto Tuno
20.0 10.0												Center Freq 6.500000000 GHz
-10.0 -20.0 -30.0			1			_					-10.00 iDm	Start Freq 3.000000000 GHz
-40.0 446-04 -50.0 -60.0	~	- AND - A	N	**************************************	- and a loga	denne	lan ^a n an	n - fan maag d	un franciska serie frankriger s	and the second se	an tain tain tain tain tain tain tain ta	Stop Freq 10.000000000 GHz
Start 3.00 #Res BW	1.0	MHz	×		BW 1.0	0 MHz	FUN	CTION	Sweep	11.67 ms	0.000 GHz (1001 pts)	CF Step 700.000000 MHz Auto Man
1 N 1 2 3 4 4 5 6 7 8 9 9 10	1		4.3	302 GHz	3	33.39 dB	m					Freq Offset 0 Hz
10 11	1					т			STAT	us	•	

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Report No.: T190327W11-RP Page 112 of 199



30MHz~3GHz_Band13_10MHz_QPSK_1_0_LowCH23230-782

📖 Agilent Spectrum A							
Center Freq	50 Q DC 1.515000000 G	Hz PNO: Fast +++ Trig	SENSE:INT	Avg Type:	IGN AUTO 09: Log-Pwr	07:32 AM Apr 17, 2019 TRACE 1 2 3 4 5 6 TYPE M WWWWWW	Frequency
10 dB/div Re	f Offset 13.6 dB f 30.00 dBm		ten: 30 dB		Mkr3 2	.346 0 GHz -38.82 dBm	Auto Tune
20.0 10.0	¥1						Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0					▲3	-10.00 iDn	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	and the second	**************************************		and growing losses of	hattana an	and a second	Stop Freq 3.000000000 GHz
Start 30 MHz #Res BW 1.0		#VBW 1.0		SN TION FUNC	weep 2.000	op 3.000 GHz ms (1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 1 f 2 N 1 f 3 N 1 f 4 5 6	771	10 GHz -39	58 dBm 82 dBm 82 dBm				Freq Offset 0 Hz
7 8 9 10 11			1				
MSG					STATUS		

3GHz~10GHz_Band13_10MHz_QPSK_1_0_Low CH23230-782

M Agilent Spectrum Analyzer - Swept SA				
Center Freg 6.500000000 GHz	SENSE:1NT	ALIGN AUTO Avg Type: Log-Pwr	09:11:54 AM Apr 17, 2019 TRACE 1 2 3 4 5 6	Frequency
PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB		Akr1 9.923 GHz	Auto Tune
10 dB/div Ref 30.00 dBm			-33.73 dBm	
20.0				Center Freq
10.0				6.50000000 GHz
-10.0			-10.00 (Dir	Start Freq
-20.0			1	3.000000000 GHz
100 martine la ferrar and a fer	man and an and and man	والمتحر المعادية المعادية والمحادية وال	new manhadamente	
-50.0				Stop Freq 10.000000000 GHz
-60.0				10.00000000 GHz
Start 3.000 GHz #Res BW 1.0 MHz #V	BW 1.0 MHz	Sween 1	Stop 10.000 GHz 1.67 ms (1001 pts)	CF Step 700.000000 MHz
MRR MODE TRC SCL X	Y FUNC	TION FUNCTION WIDTH		Auto Man
1 N 1 f 9.923 GHz 2 3	-33.73 dBm			Freq Offset
4				0 Hz
5 6 7 8 9 9 10 11				
8				
MSG		STATU	6	

Inband-1 Band13 5MHz QPSK 1 0 LowCH23205-779.5

Agilent Spectrum Analyzer - Swept SA				
μ R RF 50 Ω D		Avg Type: Log-Pwr	09:14:06 AM Apr 17, 2019 TRACE 1 2 3 4 5 6 TUPE A WWWW	Frequency
Ref Offset 13.5 d 10 dB/div Ref 30.00 dBr	IFGain:Low #Atten: 30 dB	3	1 774.760 MHz -44.249 dBm	Auto Tune
20.0 10.0				Center Freq 769.000000 MHz
-10.0				Start Freq 763.000000 MHz
-40.0 -50.0 -60.0	NAHIPHARAMINAN PHILAPPARAMI	en altaller er altaler i altaler de	www.	Stop Freq 775.000000 MHz
Start 763.000 MHz #Res BW 1.0 MHz	#VBW 1.0 MHz		Stop 775.000 MHz 000 ms (1001 pts)	CF Step 1.200000 MHz Auto Man
1 1 f 3 - - 4 - - 6 - - 7 - - 8 - - 9 - - 10 - -	774.769 MHz -44.249 dBm			Freq Offset 0 Hz
MSG		STATUS		

Inband-2 Band13 5MHz QPSK 1 0 LowCH23205-779.5

							inalyzer - Swep			
Frequency	09:14:32 AM Apr 17, 2019 TRACE 1 2 3 4 5 6	ALIGN AUTO Type: Log-Pwr		SENSE		DC	F 50 Q	R	R	F IX
Auto Tun	1 801.640 MHz -46.699 dBm	16id: 1/1 Mkr		Trig: Free R #Atten: 30 d	NO: Fast 🕶 Gain:Low	iFC	f Offset 13 f 30.00 c		dB/div	10 c
Center Fre 799.000000 MH									0	20.0 10.0
Start Fre 793.000000 Mi										10.0 20.0
Stop Fr 805.000000 M	approximate the pro-	energerprovente	unguida	hind the states of the states	mailyipping	ayaayyayay	iin an	apai da	wa	40.0 50.0
	04 00C 000 PALL-				-		MHz	93.000	+ 70	
1.200000 Mi	Stop 805.000 MHz .000 ms (1001 pts)	Sweep 1		1.0 MHz	#VBV		MHz	W 1.0	es B	Re
1.200000 M	.000 ms (1001 pts)		FUNCT	1.0 MHz -46.699 dBm		× 801.64	MHz		es B	Re
1.200000 Mi Auto M Freq Offs	.000 ms (1001 pts)	Sweep 1	FUNCT	Y		× 801.64	MHz	W 1.0	es B	Re 1 2 3 4 5
CF Ste 1.200000 Mi <u>Auto</u> Freq Offs 01	.000 ms (1001 pts)	Sweep 1	FUNCT	Y		× 801.64	MHz	W 1.0	es B	Re 1 2 3 4 5 6 7 8 9
1.200000 Mi Auto M Freq Offs	.000 ms (1001 pts)	Sweep 1	FUNCT	Y		× 801.64	MHz	W 1.0	es B	Re 1234 56

Inband-1_Band13_5MHz_QPSK_1_0_MidCH23230-782

🗱 Agilent Spi											
OM R	RF	50 Ω				ISE:INT	AvgT	ALIGN AUTO ype: Log-Pwr old: 1/1	TRAC	M Apr 17, 2019	Frequency
10 dB/div		Offset 13	IF	NO:Fast ⊶ Gain:Low	#Atten: 30) dB	Avgin		r1 768.0		Auto Tune
20.0 10.0											Center Freq 769.000000 MHz
-10.0 -20.0 -30.0 -40.0 -60.0										.36.00 dBm	Start Freq 763.000000 MHz
-40.0 -50.0 -60.0	() A Sam	stagijacitis	anin pertag	gleg pallow	arfaverienty	ooptoi hallej	adappa	tennis pytowi	walkada.	ut al an	Stop Freq 775.000000 MHz
Start 763 #Res BW	/ 1.0	MHz	×	#VBV	V 1.0 MHz	FIIM		Sweep 1	Stop 775 1.000 ms (
1 N 2 3 4 5 6 7 7 8 9 9 10 11	1 1		768.00	4 MHz	-46.803 dE						Freq Offset 0 Hz
9 10 11 1	+				т			STATU	5	- · ·	

Inband-2_Band13_5MHz_QPSK_1_0_MidCH23230-782

	illent Spec		nalyzer - Sw											0
R		RE	50	Q DC			1	ISE:INT	Avg Typ Avg/Hold	ALIGN AUTO e: Log-Pwr	TRAC	M Apr 17, 2019	E Fr	equency
10 d	B/div	Re Re	Offset 1 f 30.00	3.6 dB dBm	PNO: Fas IFGain:Lo	w	#Atten: 34		Avginoid		r1 795.8	68 MHz 41 dBm	il –	Auto Tune
														Center Freq
20.0 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0						_						.35.00 (896)	793	Start Freq
-40.0 -50.0 -60.0	Mi yali	nikin	(anique)	-	ht when the	yay?	wheel	vie tunije	efor factoria	wyadrani	NA YAN MAN	in his	805	Stop Freq .000000 MHz
#Re	t 793. s BW	1.0	MHz		#	вw	1.0 MHz		CTION FU	<u> </u>	Stop 805 1.000 ms (Auto 1	CF Step .200000 MHz Man
1	N 1	1			868 MHz		-45.941 dE							Freq Offset 0 Hz
2 3 4 5 6 7 8 9 10 11														
MSG		-				-				STATE	15	•		

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Report No.: T190327W11-RP Page 113 of 199



Inband-1_Band13_5MHz_QPSK_1_0_HighCH23255-784.5

	ji e	nt S	pec	trur		nəlyzi																														10	×
R	_	_		_	RF		50) <u>Q</u>	DC			_			٦.	Tria: I	SEN					g Ty	pe	: Log	g-Pw		0	TF	RACE	Apr 1	24	5.6		F	requ	iency	,
10 d	B/	div	,						6 di		IFC	iair	Fast			Atte					~	Jino	ia.	1/1	м	kr		71.	2	56 I 51 c	мн	z			AL	ıto T	une
20.0 10.0	ŀ	_	_	_																													Ľ			nter F	
-10.0 -20.0 -30.0		_	_	_				_			_																			-36	.00 a	80	Γ	76		tart F 0000	
-40.0 -50.0 -60.0	ñ	ļŅ	ţ	Ŵ	v	kin,	г¥	6U	ini	ĥW	呐	•	etyt	We we	P %	sitty	呐	岬	V~4	ŧŅ	n h	n/h	¢ M	1 5991	h.	44	ч¥и	WW)	+1	ţŅ,	榊	ŕ		77		top F 0000	
Star #Re	s	B	W	1.	0 0	ин							#V	вw	/ 1.	.0 M	Hz						_		<u> </u>	1.	000	ms	; (1	000	pt		A	uto		CF 8	
1 2 3 4 5 6 7 8 9 10 11	N				1					× 771	.25	5 M	IHz		4	6.681	1 dB	Im							N WID					N WAL					Fre	eq OI	fset 0 Hz
MSG																									STA	TUS							_				

Inband-2_Band13_5MHz_QPSK_1_0_HighCH23255-784.5

	ipectrum Analyzer - Si									
R	RF 50	Ω DC			SE:1NT	Avg Type	Log-Pwr	TRAC	M Apr 17, 2019	Frequency
10 dB/div	Ref Offset	13.6 dB	NO: Fast 🔸	≓ Trig: Free #Atten: 30		Avg Hold		r1 795.7	36 MHz 78 dBm	Auto Tune
20.0 10.0										Center Freq 799.000000 MHz
-10.0									-36.00 i@n	Start Freq 793.000000 MHz
-40.0 -50.0 -60.0	appartenter	Prophilipper	hi da ku	ur de la composita	othanpt	rennedi	phatyaina	n line here the	Manakati Marija Marij	Stop Freq 805.000000 MHz
	93.000 MHz W 1.0 MHz		#VBW	/ 1.0 MHz	FINA	TION FUN	<u> </u>	Stop 805 .000 ms (CF Step 1.200000 MHz Auto Man
1 N 2 3 4 5 6	1 1	795.73	6 MHz	-46.378 dB						Freq Offset 0 Hz
7 8 9 10 11				121						
MSG							STATU	s		

Inband-1_Band13_10MHz_QPSK_1_0_MidCH23230-782

M Agilent Spectrum Analyzer - Swept SA			
00 R RF 50 Ω DC	SENSE:INT	ALIGN AUTO 09:11:04 AM Apr 17, 2019 Avg Type: Log-Pwr AvgIHold: 1/1 TYPE A WWWWW	Frequency
Ref Offset 13.6 dB 10 dB/div Ref 30.00 dBm	PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB	AvgiHóld: 1/1 Tree A WWWW Der S NNNNN Mkr1 766.120 MHz -45.837 dBm	Auto Tune
20.0 10.0			Center Freq 769.000000 MHz
-10.0		-36.00 0600	Start Freq 763.000000 MHz
40.0 .00.0 .00.0	transkanskovikevitanskihevitanskihever	philasiyo palasiya ayaa ayaa ayaa ayaa	Stop Freq 775.000000 MHz
Start 763.000 MHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Stop 775.000 MHz Sweep 1.000 ms (1001 pts)	CF Step 1.200000 MHz Auto Man
1 N 1 f 766 2 3	5.120 MHz -45.837 dBm		Freq Offset 0 Hz
4 5 6 7 8 9 10 11			
MSG		STATUS	

Inband-2 Band13 10MHz QPSK 1 0 MidCH23230-782

	lent	Spe	ectru		nalyzer																						9 - 6
R	_		_	R		50 <u>Q</u>	DC						ser a: Free	65E-1		A	g Typ	ALIGN A		0	TR	ACE	pr17, 2	5.6		Frequen	cy
10 dE	3/d	iv			roffs f 30.			8	PNO FGai	: Fas	w		g: Frei tten: 3			~~	ginon		Mk		304.	076	6 MH 6 dB	N N		Auto	Tune
20.0 10.0										_									_					_		Center 799.00000	
-10.0 -20.0 -30.0									+														.~			Star 793.00000	t Freq 10 MHz
-40.0 -50.0 -60.0	μ	μŧ	嘝	m	n the second	Myk	ψv	1/14	M	npre	il Min	nmi	niwp	here	mijip	iq.1,44	v e iju,	h arry h	μwy	Marije	ho the	undy	1 1440	44		Stop 805.00000	o Freq 10 MHz
Star #Res	s E	BW	/ 1	.0	MHz	<u>؛</u>	_			#\	/BW	/ 1.0	MHz					Swee		1.000) ms	(10			Aut	1.20000	⁷ Step 10 MHz Man
1 2 3 4 5 6 7 8 9 10 11			1	1				804.0	76 1	MHz		-46.	043 dE	3m	PUN	IC DON		NC TION I	MDTH		FUNC		VALUE			Freq	Offset 0 Hz
MSG																		5	STATU	5					<u> </u>		

763.3MHz~775MHz_Band13_5MHz_QPSK_1_0_LowCH23205-779.5

Agilant Sp	ectrum Analyzer -		152	10 March 10	11167	A. 2	CALC & CALCONS	and the second		0-0-03
Start Fre		0000 MHz	1	1.000	a:pnt]	Avg Type	Log-Pwr	TRA	PH Jun 21, 2019	Frequency
		Û	NO:Wide ⊶ Gain:Low	#Atten: 30		Avg Hold	Serio M		B32 MHz	Auto Tune
10 dB/div	Ref Offse Ref 0.00						IIII	-67.8	43 dBm	-
20.0	_	-	-							Center Freq 769.000000 MHz
30.0 40.0 50.0		-							-35.00 atten	Start Free 763.000000 MH
60.0 70.0 80.0	han the second	liberarian de la companya de la comp	thirthin	entry nes	un hand	hijevilutiona (na se	anitata.	ey Kaliyan	ny sinya kanasa	Stop Fre 775.000000 MH
tart 76	3.000 MHz V 10 kHz		#VBV	V 10 kHz			Sweep 2	Stop 773 0.93 ms	5.000 MHz (1001 pts)	CF Step 1.200000 MH
N N	1	765.83	32 MHz	-67.843 dB		TION	CTION WOTH	FUNCT	ION WALLE	Auto Mar
2 3 4 6 6									_	Freq Offse 0 H
2 3 4 6 7 8 9 10 11										
			-			-				
96							STATUS	5		

763.3MHz~775MHz_Band13_5MHz_QPSK_1_0_MidCH23230-782

M Agilant Spe	schum Ana		e SA	155	10 100	nd445	No. 2	CALL & CALL & CALL	11000000000		
Start Fre	q 763	.00000	DO MHz			ISE: INT		Log-Pwr	TRA	PM Jun 21, 2019 CE 1 2 3 4 5 6	Frequency
10 dB/div	Ref	Miset 13. 0.00 dE	iFC 6 dB	0:Wide ↔ iain:Low	#Atten: 3		Avginoid	59902	1 772.0	48 MHz 63 dBm	Auto Tune
-10.0 -20.0											Center Freq 769.000000 MHz
-40.0 -60.0								▲1		-35.00 dBm	Start Freq 763.000000 MHz
70.0 80.0	物种	WH M	uriya n	附聯	WARK	ann phi	manta	MAR	幡柳	HY MAN	Stop Fred 775.000000 MH
Start 763	10 KH			#VBW	/ 10 kHz			Sweep 2	0.93 ms	.000 MHz (1001 pts)	CF Step 1.200000 MH: Auto Mar
1 N 2 3 4 6 6 7	1		772.048	8 MHz	-63.363 dE		CTION	211014 (2011)	FUNCT		Freq Offset 0 Hz
8 9 10 11					*			STATU			

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Report No.: T190327W11-RP Page 114 of 199



763.3MHz~775MHz_Band13_5MHz_QPSK_1_0_HighCH23255-784.5

		Analyzer - Swep		N TA - N	1000 A 40		A CONTRACTOR OF STREET, ST	In solution and the		0-0-0-00
Start F		63.0000	00 MHz		INSE INT	Avg Typ Avg Hold	ALIGN AUTO	TRA	PM Jun 21, 2019 DE 1 2 3 4 5 6 PE A WWWWW	Frequency
	R	ef Offset 13	PNO: Wie IFGain:Lo		30 dB	Avginoid	1997.5.1	r1 773.9	08 MHz	Auto Tune
10 dB/di		ef 0.00 dl					1.100	-64.6	03 dBm	
-10.0						-			_	Center Fre 769.000000 MH
-30.0				_	-		-		-35.00 (894)	
-40.0					-				•1	Start Fre 763.000000 MH
-70.0	r invi	natyphan	par the part	in the second	tepplepel	intern ation	聊种	n high	Whyte	Stop Fre 775.000000 Mi
Start 7			#	VBW 10 kHz		1	Sweep 2	Stop 775 0.93 ms (.000 MHz 1001 pts)	CF Ste 1.200000 Mi
MODE MADE			2773.908 MHz	-64.603 c		CTION FU	NCTION WOTH	FUNCT	ON WALLE	Auto Mi
2346			//3.999 minz		ibm					Freq Offs 01
6 7 8 9	Ħ	-			-	-			=	
10							_		1	
+ [1						STATU	1		
99.							BIAID	5		

793MHz~806MHz_Band13_5MHz_QPSK_1_0_LowCH23205-779.5

M Agilent Spectrum Analyzer - Sore			10-2000000000	an an tao an	
Start Freq 793.0000		Trig: Free Run	Aug Type: Log-Pwr Avg Hold: 1/1	12:14:26 PM Jun 21, 2019 TRACE 1 2 3 4 5 6 TYPE A DET S NNNNN	Frequency
Ref Offset 13 10 dB/div Ref 0.00 d	IFGain:Low	#Atten: 30 dB	and a contract of the	r1 799.144 MHz -64.284 dBm	Auto Tune
-10.0					Center Free 799.000000 MH
-30.0 -40.0 -50.0		1		.35 30 dBn	Start Free 793.000000 MH
	ant and the	a se	and the second second	an de transmission	Stop Fre 805.000000 MH
Start 793.000 MHz #Res BW 10 kHz	#VB	W 10 kHz	Sweep 2	Stop 805.000 MHz 0.93 ms (1001 pts)	CF Step 1.200000 MH Auto Ma
N 1 2 3 4 6 6 7	799.144 MHz	-64.284 dBm			Freq Offse 0 H
7 8 9 10 11					
MSG			STATU	6	

793MHz~806MHz Band13 5MHz QPSK 1 0 MidCH23230-782

Agilent Spectrum Analyzer - Swept SA				10-1-0- 10-10
Start Freq 793.000000 M	HZ PNO: Wide -+- Trig: Free Run	Avg Type: Log-Pwr Avg/Hold: 1/1	TRACE 1 2 3 4 5 6 TYPE A WWWW DET S NNNNN	Frequency
Ref Offset 13.6 dB	IFGain:Low #Atten: 30 dB	- Mkr1	797.656 MHz -64.330 dBm	Auto Tune
20.0				Center Free 799.000000 MH
40.0 50.0 60.0	1		-35.20 dBn	Start Free 793.000000 MH
	anda haliya dahan na da	an sign and a state of the stat	n her alle her her her	Stop Fre 805.000000 MH
Start 793.000 MHz Res BW 10 kHz	#VBW 10 kHz		p 805.000 MHz 3 ms (1001 pts)	CF Ster 1.200000 MH Auto Ma
	97.656 MHz -64.330 dBm			Freq Offse 0 H
7 8 9 10 11				
190		STATUS		

793MHz~806MHz Band13 5MHz QPSK 1 0 HighCH23255-784.5

	a na kana kana kana kana kana kana kana	1001001000	S. Au	Ta Marchae	157		n Analyzer - Sv	Speitru	
Frequency	12:14:55 PM Jun 21, 2019 TRACE 1 2 3 4 5 6	e: Log-Pwr	Avg T	SENSE IN		DOO MHz	793.000	req	RL art F
Auto Tun	DET S NNNN	2021202	AvgjHe	Trig: Free Run #Atten: 30 dB	NO: Wide -+- Gain:Low				
Auto Tuli	1 797.656 MHz -64.330 dBm	Mkr					Ref Offset		dB/di
Center Fre		-					_		
799.000000 MH	-35.20 dBm								0
Start Fre	1.00.2010000		_	-		+	-		0
793.000000 MH					•				0
Stop Fre 805.000000 MH	estadily a substantial and a substantia	www.	W W	where where	PARY AN	林林林	W	ANN.	
CF Ste 1.200000 MH	Stop 805.000 MHz 0.93 ms (1001 pts)	Sweep 20		10 kHz	#VBW		0 MHz 0 kHz		
Auto Ma	FUNCTION WALLE	NCTION WIDTH	FUNCTION	-64.330 dBm	6 MHz	797.65	1		N
Freq Offse 0 ⊦									
							-		
								+ +	-
		-							1

1559MHz~1610MHz_Band13_5MHz_QPSK_1_0_LowCH23205-779.5

1010							Analyzer - Su	spectrum		
Frequency	12-22-02 PM Jun 21, 2019 TRACE 1 2 3 4 5 6 TYPE A WWW DET S NNNNN	ALIGN ALITO ype: Log-Pwr old: 1/1	Avg	SENSE IN	Z PNO: Fast -+	0000 GHz	.55900	req 1		Sta
Auto Tune	1.569 710 GHz -41.429 dBm	Mkr1		#Atten: 30 dB	FGain:Low	1F 3.6 dB	ef Offset 1 ef 0.00 (dB/div	10 1
Center Freq 1.584500000 GHz									0	-10.0
Start Freq 1.559000000 GHz	anti-	())) http://withouthouthouthouthouthouthouthouthouthou	at the second	kirnadek	ni himi	Anterior	en in the second	浺竹		30.0 40.0 50.0
Stop Fred 1.61000000 GHz			11		TOTIL	T T	- P P	. 1	0	70.0 80.0 90.0
CF Step 5.100000 MHz Auto Man	Stop 1.61000 GHz 000 ms (1001 pts)		Electron	1.0 MHz	#VBV		O GHZ MHZ		es B	R
Freq Offset 0 Hz				-41,429 dBm	10 GHz	1.569 71			N	1 2 3
										4 5 6 7 8 9 10 11
		STATUS								Dev

1559MHz~1610MHz_Band13_5MHz_QPSK_1_0_MidCH23230-782

Agilent Spe	ctrum Ari	alyzer - Swe	H SA	157	TA - 333			WALKARD CO.	110000000000000000000000000000000000000		
a RL Start Fre	q 1.5	59000	000 GHz			SEIDNT	Avg Type Avg Hold	Log-Pwr	TRA	PM Jun 21, 2019 DE 1 2 3 4 5 6 PE A WWWWWW	Frequency
10 dB/div	Ref	Offset 13 0.00 dl	16 dB	NO: Fast Sein:Low	#Atten: 30		AvgiHold	Salan	1.565 1	71 GHz 22 dBm	Auto Tune
00	Kei	0.00 0				_					Center Fre 1.584500000 GH
10.0 20.0 30.0 40.0 50.0 50.0	rinterity		ulium (hailynd	ant the second	whith the	hikrwind	ad-yya taking	Millithere	NY WHY	Start Free 1.559000000 GH
								111			Stop Fre 1.610000000 GH
tart 1.5 Res BW	1.0 N			#VB	W 1.0 MHz			Sweep 1	.000 ms (1000 GHz 1001 pts)	CF Ste 5.100000 MH Auto Ma
1 N 2 3 4	1		1.665 17	1 GHz	-41.322 dB		NCTION		FUNCTO	ONIWALLE	Freq Offse
4 5 7 8 9								_			
				-		1	-			²	
a								STATUS			

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Report No.: T190327W11-RP Page 115 of 199



1559MHz~1610MHz_Band13_5MHz_QPSK_1_0_HighCH23255-784.5

	thum Analyzer - Sui		in the second	9355 A 3	NAME AND ADDRESS	100000000000	a la companya da series de la compa	10-10-100
Start Fre	q 1.559000		SENSE	Avg Type	ALIGN ALITO	TRAC	M Jun 21, 2019 E 1 2 3 4 5 6 E A WWWWW	Frequency
10 dB/div	Ref Offset 1 Ref 0.00 d	IF Gain:Los 3.6 dB			8187905.	1.576 2	TS NNNNN	Auto Tune
-10.0 -20.0								Center Free 1.584500000 GH
-30.0 -40.0 -50.0	hinder with the	New Marine Ward	vinine/historiaky	nytinetheipitheli	- total in the	h Walaka	, the first	Start Fre 1.559000000 GH
-90.0	<u></u>	1.1.1.1.1	1 1011	1 1.1.1.		1 • 1		Stop Fre 1.610000000 GH
Start 1.55 #Res BW	1.0 MHz	#V	BW 1.0 MHz		Sweep 1.		1001 pts)	CF Ste 5.100000 MH Auto Ma
1 N 2 3 4 6 6 7	1	1.576 238 GHz	-41.617 dBm	FUNCTION FU	N-TION WIDTH	FUNCTION		Freq Offse 0 ⊦
7 8 9 10 11			-					
vag					STATUS			

763.3MHz~775MHz_Band13_10MHz_QPSK_1_0_MidCH23230-782

M Agilent Spectrum Analyzer -		Ta Marcuss	14 2030104102		
Start Freq 763.00	0000 MHz	Trig: Free Run	Aug Type: Log-Pwr Avg Hold: 1/1	12:17:00 PM Jun 21, 2019 TRACE 1 2 3 4 5 6 TYPE A	Frequency
Ref Offse	IFGain:Low	#Atten: 30 dB	active active to a	r1 766.972 MHz -64,111 dBm	Auto Tune
10 dB/div Ref 0.00					Center Fre 769.000000 MH
-30.0	1			.35.30 dBn	Start Fre 763.000000 MH
	Walitation	en fan de fan	e a trippe de la construcción de la	en distriction of	Stop Fre 775.000000 MH
Start 763.000 MHz #Res BW 10 kHz	#VB	W 10 kHz	Sweep 2	Stop 775.000 MHz 0.93 ms (1001 pts)	CF Ste 1.200000 MH Auto Ma
1 N 1 2	766.972 MHz	-64.111 dBm		1000-1000-004.00	Freq Offse 0 H
8 9 10 11 11			statu		

793MHz~806MHz_Band13_10MHz_QPSK_1_0_MidCH23230-782

Agilent Spectrum Analyzer - Swept SA					
tart Freq 793.000000 M	WHZ	SEASE INT Avg Type: Free Run Avg Hold:	Log-Pwr TRA	DE 1 2 3 4 5 6 PE A WWWWW	Frequency
Ref Offset 13.6 dE	IFGain:Low #Atter	: 30 dB	Mkr1 794.8	ET S NNNNN	Auto Tun
					Center Fre 799.000000 MP
000 000 000				-35.20 dites	Start Fr 793.000000 M
	util a state of the	eliperi birdahirini	MARCH MARCH	柳柳柏	Stop Fr 805.000000 M
tart 793.000 MHz Res BW 10 kHz	#VBW 10 kH	z S	weep 20.93 ms (.000 MHz 1001 pts)	CF St 1.200000 M
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	794.800 MHz -64.272				Freq Offs 0
4 6 5 7 7 8 9 9 0					
ia			STATUS		

1559MHz~1610MHz Band13 10MHz QPSK 1 0 MidCH23230-782

	strum Analyzer -		15	Ta Size	115.7	3.1	AND IN A COL	- I ASR DIVISION		
a RL Start Fre		00000 GHz		Trig: Free R	1225	Avg Typ	ALIGN AUTO	TRA	PM Jun 21, 2019 CE 1 2 3 4 5 6	Frequency
10 dB/div	Ref Offse Ref 0.00	170 t 13.6 dB	iO: Fast -+ lain:Low	#Atten: 30 d		Avginoi	2027902	1.588 0	70 GHz 14 dBm	Auto Tun
-10.0	_									Center Fre 1.584500000 GH
30.0 40.0 50.0	ithere was	hanalis he showed	upper the state	patriophic	yhtyper a	n ipetrophilip	hi shannin	(university) (-40.00 0000 \$\$\$	Start Fre 1.559000000 GF
70.0 80.0 90.0		,								Stop Fre 1.61000000 GH
Res BW			#VBW	/ 1.0 MHz				.000 ms (1000 GHz (1001 pts)	CF Ste 5.100000 MH Auto Ma
NOT MORE T	1	1,588 070	GHz	-44,714 dBm		TION	NCTION WIDTH	FUNCT	ON WALLE	
2 3 4 6									_	Freq Offs 0 F
7 8 9 10										
11	1		_		1				1.1	
90							STATU	5		

30MHz~3GHz_Band17_5MHz_QPSK_1_0_LowCH23755-706.5

M Agilent Spec	trum Analy		SA								- 4 -
Center Fi	⊮ req 1.		D000 G	Hz		SE:INT	Avg	ALIGN AUTO Type: Log-Pwr	TRAC	M Apr 17, 201	Frequency
10 dB/div		ffset 13.6 30.00 df	ii dB	NO: Fast * Gain:Low	#Atten: 3			м	kr3 2.11		Auto Tune
20.0 10.0			¥1								Center Freq 1.515000000 GHz
-10.0								3 3		-10.00 iDn	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0		a) militari ma		*********	Q ² .		•••••	- Low Contraction	and and a start of the start of	Magalina (Junitar Angel	Stop Freq 3.000000000 GHz
Start 30 M #Res BW	1.0 M	Hz	×		W 1.0 MHz		ICTION	Sweep 2	2.000 ms (.000 GHz 1001 pts)	
1 N 1 2 N 1 3 N 1 4 5 6	1		1.413	2 MHz 0 GHz 5 GHz	24.74 dE -41.10 dE -39.17 dE	m					Freq Offset 0 Hz
4 5 7 8 9 10 11										=	
NSG								STATU	s	•	

3GHz~10GHz_Band17_5MHz_QPSK_1_0_LowCH23755-706.5

🕅 Agilent Spec	ctrum Analyz		A								
Center F	req 6.5	50 S	∞ 000 GH	z		NSE:JNT	Avg Typ	ALIGN AUTO e: Log-Pwr	TRAC	M Apr 17, 2019	Frequency
10 dB/div		'set 13.6 0.00 dB	dB	łO:Fast ∺ lain:Low	#Atten: 3	0 dB		1	/kr1 4.8	PNNNN	Auto Tune
20.0 10.0											Center Freq 6.500000000 GHz
-10.0			↓ ¹							-10:00 iDin	Start Freq 3.00000000 GHz
-40.0	Your			and and a second second	et une	eriketur menu	ang the sector of the	4441-4	hadar and the second second	ktophansist	Stop Freq 10.000000000 GHz
Start 3.00 #Res BW	1.0 MH	z	×		V 1.0 MHz	FU	ICTION FU	<u> </u>	1.67 ms (.000 GHz 1001 pts)	CF Step 700.000000 MHz Auto Man
1 N 1 2 3 4 5 6	1		4,88	3 GHz	-31.87 di	3m				≡.	Freq Offset 0 Hz
7 8 9 10 11										<u> </u>	
NSG				_				STATU	5	•	

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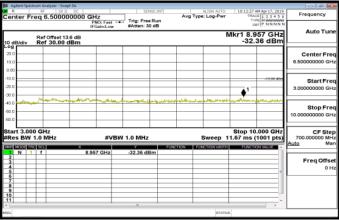
Report No.: T190327W11-RP Page 116 of 199



30MHz~3GHz_Band17_5MHz_QPSK_1_0_MidCH23790-710

🌉 Agia	ent Spectr	um An			SA														
Cent	er Fre	⊮ Pq1		000	00	0 GI	-Iz	ast -•	Tria	SENSE:		Avg		LIGN AUTO) 1 r	TRAC	M Apr 17, 2	5 6	Frequency
10 dB	/div		Offset 30.0			IF	Gain:			n: 30 dl				N	lkr3	2.13	0 0 GH	١z	Auto Tune
20.0 10.0					Ť	1													Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0				+						2			_	3-			-19.001	_	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0	6499, Trange	-1.94	Ljenevino		4		•••••			2	patring			and and a second		(مدماني)			Stop Freq 3.000000000 GHz
#Res	30 M BW 1	.0 N	/Hz		_			#VBV	V 1.0 M	Hz		-		Sweep	2.000) mis (.000 GI 1001 p		CF Step 297.000000 MHz Auto Man
1 2	N 1 N 1 N 1	1 1				710 1.420 2.130	1 Mi 0 Gi 0 Gi	1z	-42.16	3 dBm 5 dBm 3 dBm									Freq Offset 0 Hz
9 10 11 1									18					STAT	rus		- ,		

3GHz~10GHz_Band17_5MHz_QPSK_1_0_MidCH23790-710



30MHz~3GHz_Band17_5MHz_QPSK_1_0_HighCH23825-713.5

Magilent Spectrum Analyzer - Swept SA			
Center Freq 1.515000000	GHz SENSE:IN	Avg Type: Log-Pwr TRACE	2 3 4 5 6 Frequency
Ref Offset 13.6 dB 10 dB/div Ref 30.00 dBm	IFGain:Low Trig: Free Run #Atten: 30 dB	Mkr3 2.140 5 -37.84	
			Center Freq 1.515000000 GHz
-10.0		3	Start Freq 30.000000 MHz
40.0		elpen ful azhikalan ateatetta teta kerken elementetta teta teta teta teta teta teta te	Stop Freq 3.00000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Stop 3.00 Sweep 2.000 ms (100 FUNCTION FUNCTION WIDTH FUNCTION V	1 pts) 297.000000 MHz Auto Man
1 N 1 f 7 2 N 1 f 14	713.1 MHz 23.98 dBm 427 0 GHz -38.17 dBm 140 5 GHz -37.84 dBm		Freq Offset 0 Hz
MSG		STATUS	

3GHz~10GHz_Band17_5MHz_QPSK_1_0_HighCH23825-713.5

Agilent Spectrum Analyzer - Swept SA				- # 8
R RF S0 Q DC	SENSE		10:13:40 AM Apr 17, 2019	Frequency
Center Freq 6.500000000 G	Hz 2NO: Fast +++ Trig: Free R	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	riequency
Ref Offset 13.6 dB	Gain:Low #Atten: 30 c	IB	Mkr1 4.659 GHz -33.14 dBm	Auto Tune
10 dB/div Ref 30.00 dBm			-33.14 dBm	
20.0				Center Free 6.50000000 GH
-10.0			-10.00 dBm	Start Free 3.000000000 GH
	-	tradition of the former dation from the second s	a tigh firikang kidag rang pinanakitapat	Stop Free 10.000000000 GH
Start 3.000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz		Stop 10.000 GHz 1.67 ms (1001 pts)	CF Ste 700.000000 MH Auto Ma
1 N 1 7 4.6	59 GHz -33.14 dBn	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	
2 3 3 4 5 6				Freq Offse 0 H
7 8 9 10 11				
1			•	
MSG		STATU	s	

30MHz~3GHz_Band17_10MHz_QPSK_1_0_LowCH23780-709

	trum Analyzer								0 6
Center Fi		50 9 DC	łz	SENSE	Avg	ALIGN AUTO Type: Log-Pwr	09:49:35 AM	Apr 17, 2019	Frequency
10 dB/div			NO: Fast ⊶ Gain:Low	#Atten: 30 d		М	cr3 2.127	PNNNNN	Auto Tune
20.0 10.0		¥1							Center Freq 1.515000000 GHz
-10.0				2		*3		-10.00 iDn	Start Freq 30.000000 MHz
-40.0 Strawlor -50.0 -60.0	*****	en la general la general de				und market and all		n-1440-144	Stop Freq 3.000000000 GHz
Start 30 M #Res BW	1.0 MHz	×	#VB	V 1.0 MHz	FUNCTION	Sweep 2	Stop 3.0 2.000 ms (10	01 pts)	CF Step 297.000000 MHz Auto Man
1 N 1 2 N 1 3 N 1 4 5	1	1.418	2 MHz 0 GHz 0 GHz	25.69 dBm -39.48 dBm -39.61 dBm				≡.	Freq Offset 0 Hz
4 5 7 9 10 11									
MSG						STATU		•	

3GHz~10GHz_Band17_10MHz_QPSK_1_0_LowCH23780-709

	trum Ar	nalyzer - Swep									0 6
Center F	req (50 £ 5.50000	0000 GH	z		NSE:INT	Avg Typ	ALIGN AUTO III: Log-Pwr	TRA	M Apr 17, 2019	Frequency
10 dB/div		Offset 13 7 30.00 c	iFC	¥O: Fast ← Sain:Low	#Atten: 3	0 dB		1	Mkr1 4.8	76 GHz 57 dBm	Auto Tune
20.0 10.0											Center Freq 6.500000000 GHz
-10.0 -20.0 -30.0										-10:00 iDin	Start Freq 3.000000000 GHz
-40.0 potention -50.0 -60.0	la contrata da	arrea, a constrainte	inder and in the second second	and the second of the second o	and the second	Color and the second second		a suspendela	dayer of particular	ىلەيرانىيە دىيە دىرىيە مەربىيە تىيە دىيە دىرىيە	Stop Freq 10.000000000 GHz
Start 3.00 #Res BW	1.0	MHz	×		W 1.0 MHz	·	NCTION FL	Sweep 1	1.67 ms (. /	CF Step 700.000000 MHz Auto Man
1 N 1 2 3 4 5 6 7 8 9 10	1		4.87	6 GHz	-33.57 d	Bm					Freq Offset 0 Hz
11 VISG	1							STATU	s	•	

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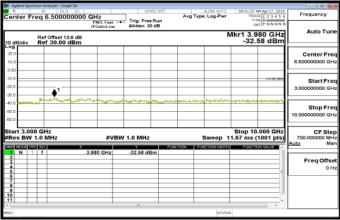


Report No.: T190327W11-RP Page 117 of 199

30MHz~3GHz_Band17_10MHz_QPSK_1_0_MidCH23790-710

🌉 Agilent Spe	ctrum An	alyzer - Swep	e SA															
Center F	rea 1	50 Q	000	00 GH	7	_		15E:1N		Avg		LIGN AUTO		09:51:15 TRJ	CE 1 2	3456	Frequenc	y
o or nor 1		101000		PN	O: Fast		Trig: Free Atten: 3			-		-			PE MW	NNNN		_
			_	110	alin:Low		Postern. 2	000					Alex	3 2.13	0.0.0		Auto	Tune
10 dB/div	Ref	Offset 13. 30.00 c	6 dE	3								IV.	NIK	-36	.82 d	Bm		
Log	Rei	30.00 0		1											_			_
20.0	-		H			-		-			-		-+		-	_	Center	Freq
10.0			H			-		-			-		-+		-	_	1.515000000) GHz
0.00			H			-		-			-		\rightarrow		-	_		_
-10.0	_										_		_		.40		Start	Erec
-20.0								_			_		_		-		30.000000	
-30.0			Ц				~2				_	3	_			_		
40.0		and the second	1.1			_	Q*.		m		mitte	bererete	eres a	and the state	A	and a	-	_
-50.0	10 p. Mary and a	Construction of	· · ·													_	Stop	
-60.0																	3.00000000) GHz
Start 30														Stop	3.000	GHz		Step
#Res BW	1.0 N	лнz			#VI	3W 1	.0 MHz				_			00 ms	1	1/	297.000000 Auto	Man
1 N	NC SCL			707.0	2 MHz		25.51 dE		FUNC	TION	FUN	CTION MD	TH	FUNCT	10N VALU	E -		
2 N	1 1		_	1.420 0	GHz		40.22 dE	3m								_	Freq O	
3 N 4	1 1			2.130 (GHz		-36.82 dE	3m			-		+			-1	Frequ	0 Hz
5																		0 112
7			_		-											_		
7 8 9								-			_		-			_		
10																		
11	-				-		181	-		_	_		+		_	+ *		
MSG												STA	TUS					_

3GHz~10GHz_Band17_10MHz_QPSK_1_0_MidCH23790-710



30MHz~3GHz_Band17_10MHz_QPSK_1_0_HighCH23800-711

	ctrum Analyzer - S								- 4 - 2
Center F		000000 GH	łz	SENSE: Trig: Free Ru	A	ALIGN AUTO	09:56:12 AM / TRACE	123456	Frequency
10 dB/div	Ref Offset Ref 30.0	13.6 dB	NO: Fast ⊶ Gain:Low	#Atten: 30 dl	3	М	kr3 2.133 (-39.77		Auto Tune
20.0 10.0		¥1							Center Freq 1.515000000 GHz
-10.0 -20.0 -30.0				^2		3		-10.00 (Dr	Start Freq 30.000000 MHz
-40.0				0.1		terral and the second	- and a second sec	r-n.htm	Stop Freq 3.000000000 GHz
Start 30 M #Res BW	1.0 MHz		#VB\	W 1.0 MHz	FUNCTION	Sweep 3	Stop 3.0 2.000 ms (10	01 pts)	CF Step 297.000000 MHz Auto Man
1 N 2 N 3 N 4 5 6 7 8 9 9		1.422	2 MHz 0 GHz 0 GHz	25,44 dBm -40,36 dBm -39,77 dBm				_	Freq Offset 0 Hz
11 • 1				10		STATL	is labeled and the second seco		

3GHz~10GHz_Band17_10MHz_QPSK_1_0_HighCH23800-711

🎒 Agile	nt Spe			zer - Sv																			d) 🛃
Cente	er F		6.5	500C		× 000	GH	z				E:IN	n	Av		ALIGN A			TRACI	Apr 17	456	Freque	ncy
10 dB/	ldiv	R	ef Of	Tset 1	13.6 dB	dB	PN	O: Fas ain:Lo	st		Free m: 30						N	1kr1 -3	3.9	94 G	Hz		Tun
20.0 10.0																						Cente 6.5000000	
-10.0 -20.0 -30.0				♦ 1							-										0.00	Sta 3.0000000	nt Fre
-40.0 × -50.0 -	a t-144	~*		d'r beging	~	spelat	*****	w	the second		~~~	-	Arbegory	-l-ortro	an a	yadary	~//44	4th a	yand,	nat mente		Sto 10.0000000	p Fre 00 GH
Start #Res	BW	/ 1.0	M	łz		×		#	VBW	/ 1.0 N	۱Hz	_	ET INA			Swee		1.67 n	ns (1	000 C	pts)	700.0000 Auto	F Ste 00 Mi Mi
		1					3.994	GHz		-32.5	57 dB	m										Freq	offs 0 H
7 8 9 10 11																							
4						-			-	.11						5	TATUS				•		

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FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT 9.

9.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

FCC §27.53(a) (h)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.

FCC §27.53(h) (3)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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FCC §27.53(m) (4)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)^{Note}$
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)^{Note}$
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

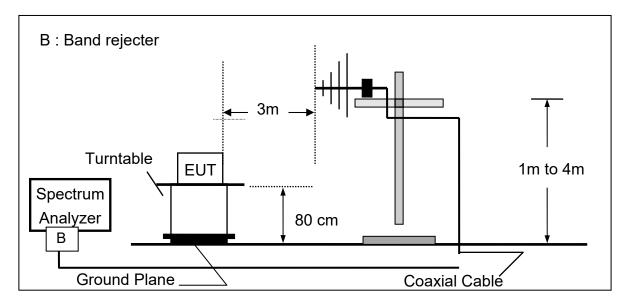
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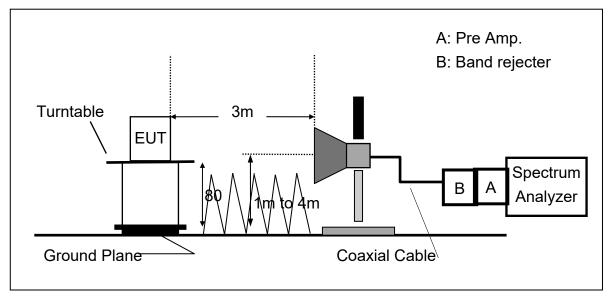


9.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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9.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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9.4. Measurement Equipment Used:

	966A Chamber							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
DC Power Supply	GWINSTEK	SPS-3610	GPE880163	01/14/2019	01/13/2020			
PSA Series Spec- trum Analyzer	Agilent	E4446A	MY46180323	05/31/2018	05/30/2019			
Digital Ther- mo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020			
Pre-Amplifier	MITEQ	AMF-6F-260400-40-8P	985646	02/26/2019	02/25/2020			
Pre-Amplifier	EMEC	EM330	60609	02/26/2019	02/25/2020			
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020			
Horn Antenna	Schwarzbeck	BBHA9170	184	12/27/2018	12/26/2019			
Horn Antenna	ETS LINDGREN	3116	26370	12/26/2018	12/25/2019			
Horn Antenna	SCHWARZBECK	BBHA 9120D	779	03/09/2019	03/08/2020			
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019			
Bilog Antenna	Sunol Sciences	JB1	A052609	03/06/2019	03/05/2020			
double Ridged Guide Horn An- tenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019			
Loop Antenna	COM-POWER	AL-130	121051	03/22/2019	03/21/2020			
Loop Antenna	ETS.LINDGREN	6502	148045	10/08/2018	10/07/2019			
Digital Radio Communication Tester	R&S	CMU200	100535	09/17/2018	09/16/2019			
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020			
Wireless Commu- nication Test Set	Agilent	8960/E5515C	MY48363204	07/23/2018	07/22/2019			
Wideband Radio Communication Tester	R&S	CMW 500	116875	04/20/2018	04/19/2019			
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020			
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020			
DC Power Supply	GWINSTEK	SPS-3610	GPE880163	01/14/2019	01/13/2020			
High Pass Filter	Woken	EWT-57-0209	RF43	02/26/2019	02/25/2020			
Notch Filter	EWT	EWT-54-0037	RF53	02/26/2019	02/25/2020			
Notch Filter	EWT	EWT-54-0038	RF55	02/26/2019	02/25/2020			
Software								

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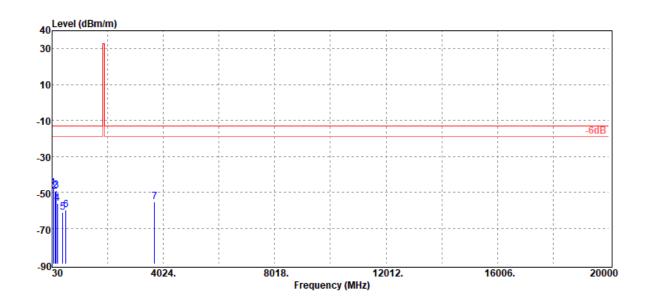
9.5. Measurement Result:

Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Project Number
Operation Band
Fundamental Frequency
Operation Mode
EUT Pol.

: T190327W11 :WCDMA B2 :1852.4 MHz :Tx CH Low :E2 Plan

:2019-05-21
:21.2/61
:Jerry
:VERTICAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
73.65	-47.63	-37.83	-9.10	-0.70	-13.00	-34.63
141.55	-49.40	-40.12	-8.30	-0.98	-13.00	-36.40
178.41	-48.91	-43.25	-4.56	-1.10	-13.00	-35.91
221.09	-56.14	-52.94	-1.98	-1.22	-13.00	-43.14
418.00	-61.34	-57.75	-1.90	-1.69	-13.00	-48.34
534.40	-59.90	-56.67	-1.30	-1.93	-13.00	-46.90
3704.80	-55.47	-62.24	12.49	-5.72	-13.00	-42.47

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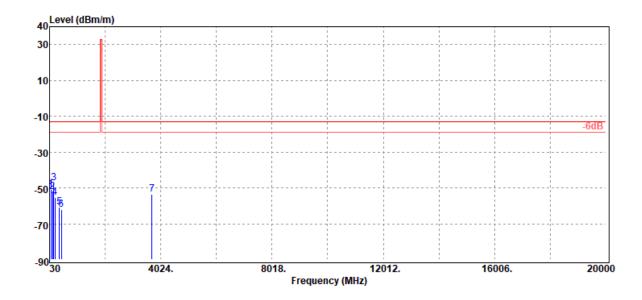
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Operation Band Fundamental Frequency	: T190327W11 :WCDMA B2 :1852.4 MHz :Tx CH Low :E2 Plan	Test Date Temp./Humi. Engineer Measurement Antenna Pol.	:2019-05-21 :21.2/61 :Jerry :HORIZONTAL
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Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
73.65	-50.80	-41	-9.10	-0.70	-13.00	-37.80
141.55	-52.00	-42.72	-8.30	-0.98	-13.00	-39.00
180.35	-47.26	-41.8	-4.36	-1.10	-13.00	-34.26
219.15	-55.17	-51.93	-2.02	-1.22	-13.00	-42.17
386.96	-60.81	-57.78	-1.40	-1.63	-13.00	-47.81
456.80	-62.00	-58.13	-2.10	-1.77	-13.00	-49.00
3704.80	-53.75	-60.52	12.49	-5.72	-13.00	-40.75

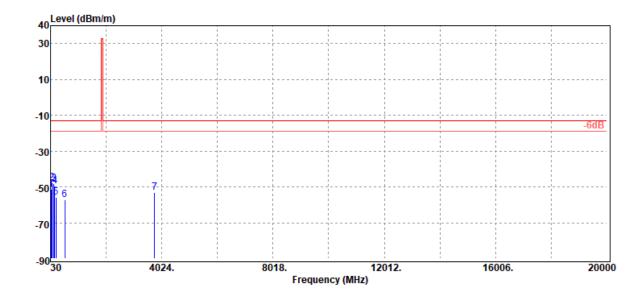
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Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.	: T190327W11 :WCDMA B2 :1880 MHz :Tx CH Mid :E2 Plan	Test Date Temp./Humi. Engineer Measurement Antenna Pol.	:2019-05-21 :21.2/61 :Jerry :VERTICAL



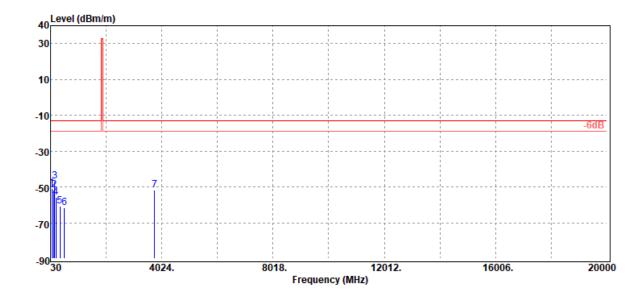
Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
46.49	-51.12	-36.21	-14.36	-0.55	-13.00	-38.12
73.65	-47.68	-37.88	-9.10	-0.70	-13.00	-34.68
148.34	-48.16	-39.89	-7.27	-1.00	-13.00	-35.16
178.41	-49.43	-43.77	-4.56	-1.10	-13.00	-36.43
221.09	-55.94	-52.74	-1.98	-1.22	-13.00	-42.94
539.25	-57.38	-54.15	-1.30	-1.93	-13.00	-44.38
3760.00	-52.97	-59.63	12.42	-5.76	-13.00	-39.97

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Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
73.65	-50.73	-40.93	-9.10	-0.70	-13.00	-37.73
149.31	-51.72	-43.55	-7.17	-1.00	-13.00	-38.72
178.41	-46.94	-41.28	-4.56	-1.10	-13.00	-33.94
219.15	-55.72	-52.48	-2.02	-1.22	-13.00	-42.72
376.29	-60.85	-57.59	-1.65	-1.61	-13.00	-47.85
527.61	-61.87	-58.65	-1.30	-1.92	-13.00	-48.87
3760.00	-51.73	-58.39	12.42	-5.76	-13.00	-38.73

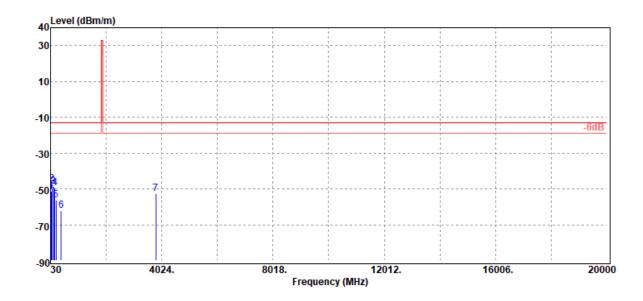
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Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.	: T190327W11 :WCDMA B2 :1907.6 MHz :Tx CH High :E2 Plan	Test Date Temp./Humi. Engineer Measurement Antenna Pol.	:2019-05-21 :21.2/61 :Jerry :VERTICAL
EUT POI.	.Ez Plan		



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-51.13	-37.04	-13.53	-0.56	-13.00	-38.13
73.65	-47.18	-37.38	-9.10	-0.70	-13.00	-34.18
144.46	-48.75	-39.95	-7.81	-0.99	-13.00	-35.75
178.41	-49.36	-43.7	-4.56	-1.10	-13.00	-36.36
221.09	-56.36	-53.16	-1.98	-1.22	-13.00	-43.36
415.09	-62.15	-58.56	-1.90	-1.69	-13.00	-49.15
3815.20	-52.53	-59.2	12.47	-5.80	-13.00	-39.53

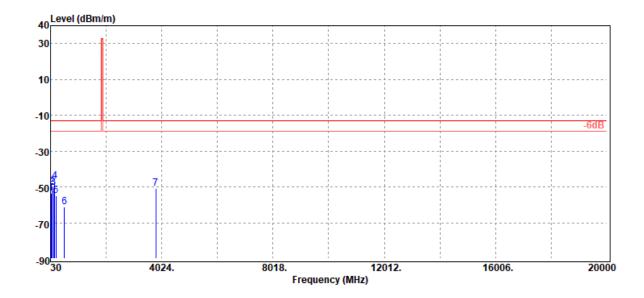
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Project Number: T190327W11Test DateOperation Band:WCDMA B2Temp./Humi.Fundamental Frequency:1907.6 MHzEngineerOperation Mode:Tx CH HighMeasurement AEUT Pol.:E2 Plan	:2019-05-21 :21.2/61 :Jerry Intenna Pol. :HORIZONTAL
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Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-53.44	-39.35	-13.53	-0.56	-13.00	-40.44
73.65	-50.10	-40.3	-9.10	-0.70	-13.00	-37.10
143.49	-50.52	-41.54	-8.00	-0.98	-13.00	-37.52
185.20	-46.99	-41.79	-4.08	-1.12	-13.00	-33.99
221.09	-54.86	-51.66	-1.98	-1.22	-13.00	-41.86
532.46	-61.12	-57.9	-1.30	-1.92	-13.00	-48.12
3815.20	-50.86	-57.53	12.47	-5.80	-13.00	-37.86

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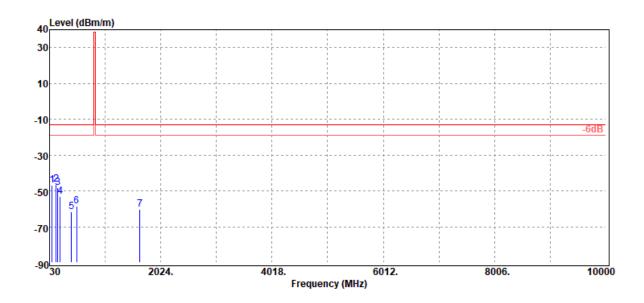


Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Project Number	: T19
Operation Band	:WC
Fundamental Frequency	:826
Operation Mode	:Tx (
EUT Pol.	:E2

90327W11 CDMA B5 6.4 MHz CH Low Plan

:2019-05-21
:21.2/61
:Jerry
:VERTICAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
73.65	-46.76	-36.96	-9.10	-0.70	-13.00	-33.76
146.40	-46.42	-37.89	-7.54	-0.99	-13.00	-33.42
178.41	-48.12	-42.46	-4.56	-1.10	-13.00	-35.12
219.15	-52.90	-49.66	-2.02	-1.22	-13.00	-39.90
419.94	-61.64	-58.04	-1.90	-1.70	-13.00	-48.64
516.94	-58.49	-55.13	-1.46	-1.90	-13.00	-45.49
1652.80	-60.53	-66.7	9.72	-3.55	-13.00	-47.53

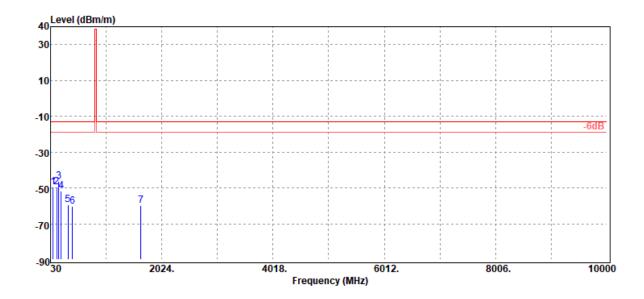
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Project Number: T190327W11Test Date:2019-1Operation Band:WCDMA B5Temp./Humi.:21.2/6Fundamental Frequency:826.4 MHzEngineer:JerryOperation Mode:Tx CH LowMeasurement Antenna Pol.:HORIZEUT Pol.:E2 Plan:E2 Plan:E1 Plan	/61
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Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
73.65	-49.30	-39.5	-9.10	-0.70	-13.00	-36.30
141.55	-49.55	-40.27	-8.30	-0.98	-13.00	-36.55
178.41	-46.18	-40.52	-4.56	-1.10	-13.00	-33.18
219.15	-51.95	-48.71	-2.02	-1.22	-13.00	-38.95
347.19	-59.39	-56.35	-1.50	-1.54	-13.00	-46.39
422.85	-60.40	-56.8	-1.90	-1.70	-13.00	-47.40
1652.80	-59.72	-65.89	9.72	-3.55	-13.00	-46.72

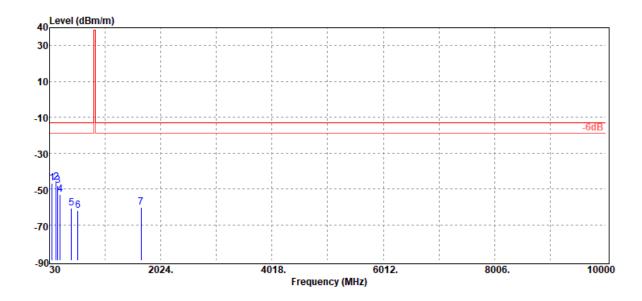
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Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.	: T190327W11 :WCDMA B5 :836.6 MHz :Tx CH Mid :E2 Plan	Test Date Temp./Humi. Engineer Measurement Antenna Pol.	:2019-05-21 :21.2/61 :Jerry :VERTICAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
73.65	-46.69	-36.89	-9.10	-0.70	-13.00	-33.69
146.40	-46.55	-38.02	-7.54	-0.99	-13.00	-33.55
178.41	-48.01	-42.35	-4.56	-1.10	-13.00	-35.01
219.15	-53.04	-49.8	-2.02	-1.22	-13.00	-40.04
419.94	-60.83	-57.23	-1.90	-1.70	-13.00	-47.83
539.25	-62.00	-58.77	-1.30	-1.93	-13.00	-49.00
1673.20	-60.45	-66.71	9.84	-3.58	-13.00	-47.45

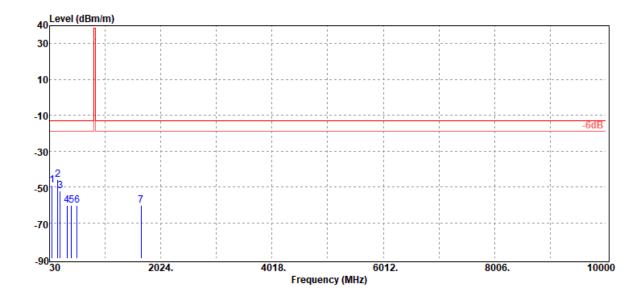
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Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
73.65	-49.08	-39.28	-9.10	-0.70	-13.00	-36.08
178.41	-45.89	-40.23	-4.56	-1.10	-13.00	-32.89
219.15	-52.02	-48.78	-2.02	-1.22	-13.00	-39.02
347.19	-60.33	-57.29	-1.50	-1.54	-13.00	-47.33
419.94	-60.33	-56.73	-1.90	-1.70	-13.00	-47.33
527.61	-60.49	-57.27	-1.30	-1.92	-13.00	-47.49
1673.20	-60.23	-66.49	9.84	-3.58	-13.00	-47.23

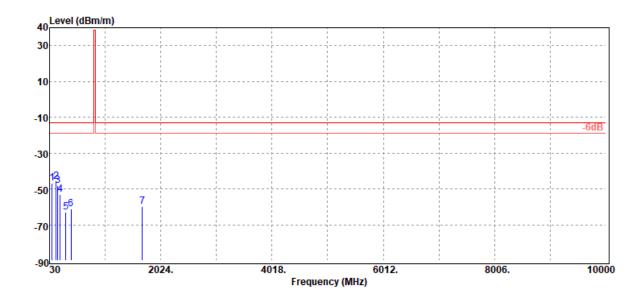
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Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.	: T190327W11 :WCDMA B5 :846.6 MHz :Tx CH High :E2 Plan	Test Date Temp./Humi. Engineer Measurement Antenna Pol.	:2019-05-21 :21.2/61 :Jerry :VERTICAL



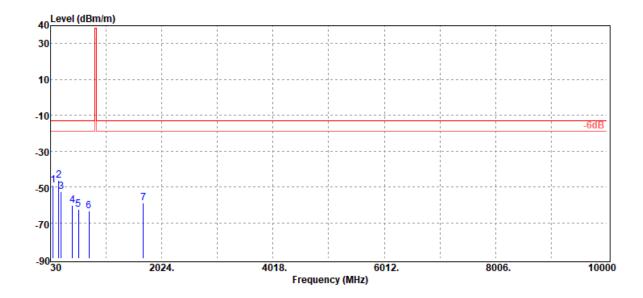
Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
73.65	-46.78	-36.98	-9.10	-0.70	-13.00	-33.78
148.34	-46.06	-37.79	-7.27	-1.00	-13.00	-33.06
178.41	-48.30	-42.64	-4.56	-1.10	-13.00	-35.30
219.15	-52.91	-49.67	-2.02	-1.22	-13.00	-39.91
322.94	-63.14	-59.85	-1.80	-1.49	-13.00	-50.14
418.00	-61.24	-57.65	-1.90	-1.69	-13.00	-48.24
1693.20	-59.96	-66.32	9.96	-3.60	-13.00	-46.96

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Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
73.65	-48.88	-39.08	-9.10	-0.70	-13.00	-35.88
178.41	-46.28	-40.62	-4.56	-1.10	-13.00	-33.28
219.15	-52.63	-49.39	-2.02	-1.22	-13.00	-39.63
419.94	-60.41	-56.81	-1.90	-1.70	-13.00	-47.41
532.46	-62.68	-59.46	-1.30	-1.92	-13.00	-49.68
720.64	-63.35	-59.69	-1.40	-2.26	-13.00	-50.35
1693.20	-58.91	-65.27	9.96	-3.60	-13.00	-45.91

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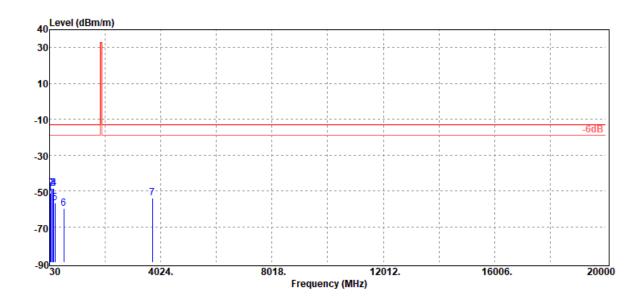


Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.

: T190327W11 :LTE B2 20 QPSK 1.0 :1860 MHz :Tx CH Low :E2 Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :VERTICAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
47.46	-51.11	-37.02	-13.53	-0.56	-13.00	-38.11
83.35	-48.47	-39.49	-8.23	-0.75	-13.00	-35.47
148.34	-48.61	-40.34	-7.27	-1.00	-13.00	-35.61
180.35	-48.68	-43.22	-4.36	-1.10	-13.00	-35.68
219.15	-56.88	-53.64	-2.02	-1.22	-13.00	-43.88
539.25	-59.82	-56.59	-1.30	-1.93	-13.00	-46.82
3720.00	-53.87	-60.6	12.46	-5.73	-13.00	-40.87

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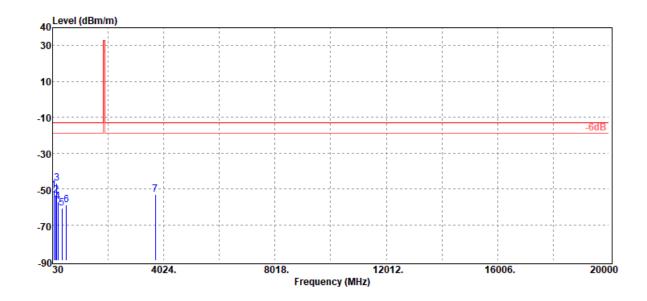
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Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.	: T190327W11 :LTE B2 20 QPSK 1.0 :1860 MHz :Tx CH Low :E2 Plan	Test Date Temp./Humi. Engineer Measurement Antenna Pol.	:2019-05-20 :21.2/61 :Jerry :HORIZONTAL
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Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
73.65	-50.77	-40.97	-9.10	-0.70	-13.00	-37.77
149.31	-53.63	-45.46	-7.17	-1.00	-13.00	-40.63
178.41	-47.02	-41.36	-4.56	-1.10	-13.00	-34.02
221.09	-57.15	-53.95	-1.98	-1.22	-13.00	-44.15
374.35	-60.76	-57.45	-1.71	-1.60	-13.00	-47.76
532.46	-59.05	-55.83	-1.30	-1.92	-13.00	-46.05
3720.00	-52.97	-59.7	12.46	-5.73	-13.00	-39.97

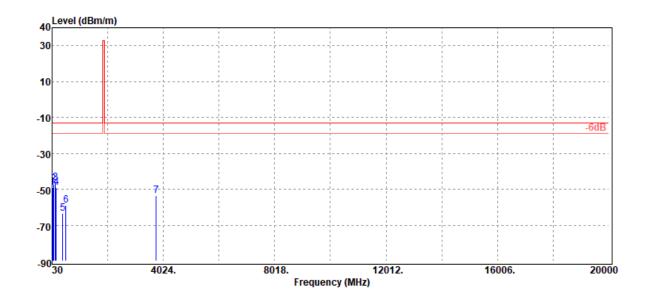
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Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.	: T190327W11 :LTE B2 20 QPSK 1.0 :1880 MHz :Tx CH Mid :E2 Plan	Test Date Temp./Humi. Engineer Measurement Antenna Pol.	:2019-05-21 :21.2/61 :Jerry :VERTICAL
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Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-49.24	-35.15	-13.53	-0.56	-13.00	-36.24
73.65	-47.30	-37.5	-9.10	-0.70	-13.00	-34.30
146.40	-46.47	-37.94	-7.54	-0.99	-13.00	-33.47
178.41	-49.18	-43.52	-4.56	-1.10	-13.00	-36.18
415.09	-63.39	-59.8	-1.90	-1.69	-13.00	-50.39
534.40	-59.11	-55.88	-1.30	-1.93	-13.00	-46.11
3760.00	-53.46	-60.12	12.42	-5.76	-13.00	-40.46

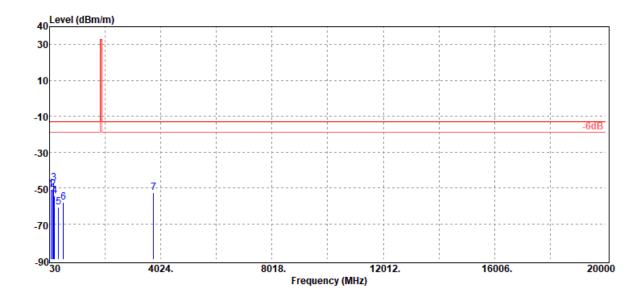
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Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.	: T190327W11 :LTE B2 20 QPSK 1.0 :1880 MHz :Tx CH Mid :E2 Plan	Test Date Temp./Humi. Engineer Measurement Antenna Pol.	:2019-05-21 :21.2/61 :Jerry :HORIZONTAL
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Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
73.65	-50.69	-40.89	-9.10	-0.70	-13.00	-37.69
149.31	-50.76	-42.59	-7.17	-1.00	-13.00	-37.76
180.35	-47.29	-41.83	-4.36	-1.10	-13.00	-34.29
217.21	-54.51	-51.24	-2.06	-1.21	-13.00	-41.51
354.95	-60.69	-57.73	-1.40	-1.56	-13.00	-47.69
532.46	-57.94	-54.72	-1.30	-1.92	-13.00	-44.94
3760.00	-52.80	-59.46	12.42	-5.76	-13.00	-39.80

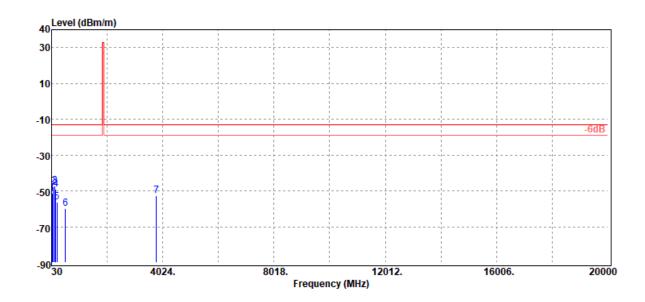
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Project Number : T190327W11 Test Date :2019-05-21 **Operation Band** :LTE B2 20 QPSK 1.0 Temp./Humi. :21.2/61 **Fundamental Frequency** Engineer :1900 MHz :Jerry **Operation Mode** :Tx CH High Measurement Antenna Pol. :VERTICAL EUT Pol. :E2 Plan



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
46.49	-51.25	-36.34	-14.36	-0.55	-13.00	-38.25
73.65	-47.72	-37.92	-9.10	-0.70	-13.00	-34.72
148.34	-47.15	-38.88	-7.27	-1.00	-13.00	-34.15
178.41	-48.98	-43.32	-4.56	-1.10	-13.00	-35.98
221.09	-56.20	-53	-1.98	-1.22	-13.00	-43.20
526.64	-60.05	-56.83	-1.30	-1.92	-13.00	-47.05
3800.00	-52.68	-59.39	12.50	-5.79	-13.00	-39.68

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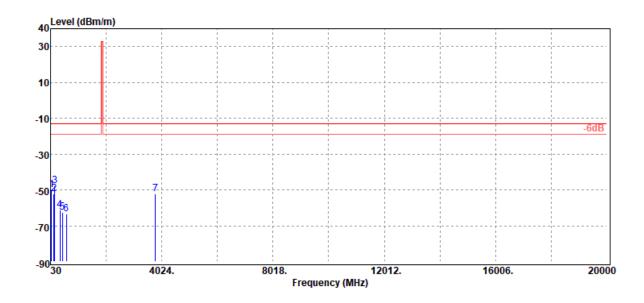
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Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.	: T190327W11 :LTE B2 20 QPSK 1.0 :1900 MHz :Tx CH High :E2 Plan	Test Date Temp./Humi. Engineer Measurement Antenna Pol.	:2019-05-21 :21.2/61 :Jerry :HORIZONTAL
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Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
71.71	-50.19	-39.89	-9.60	-0.70	-13.00	-37.19
148.34	-52.16	-43.89	-7.27	-1.00	-13.00	-39.16
178.41	-47.49	-41.83	-4.56	-1.10	-13.00	-34.49
374.35	-61.33	-58.02	-1.71	-1.60	-13.00	-48.33
458.74	-62.62	-58.74	-2.10	-1.78	-13.00	-49.62
602.30	-63.65	-60.63	-0.95	-2.07	-13.00	-50.65
3800.00	-52.25	-58.96	12.50	-5.79	-13.00	-39.25

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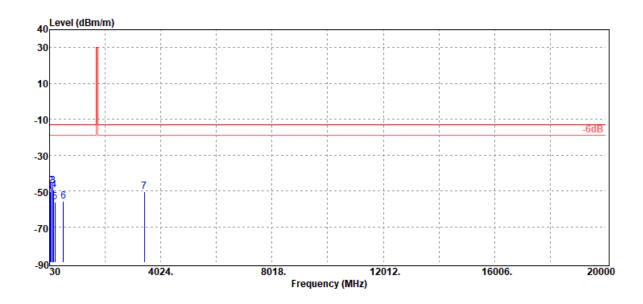


Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.

: T190327W11 :LTE B4 15 QPSK 1.0 :1717.5 MHz :Tx CH Low :E2 Plan

Test Date :2019-05-21 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :VERTICAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-50.46	-36.37	-13.53	-0.56	-13.00	-37.46
73.65	-47.46	-37.66	-9.10	-0.70	-13.00	-34.46
148.34	-47.27	-39	-7.27	-1.00	-13.00	-34.27
178.41	-49.43	-43.77	-4.56	-1.10	-13.00	-36.43
221.09	-56.31	-53.11	-1.98	-1.22	-13.00	-43.31
532.46	-55.82	-52.6	-1.30	-1.92	-13.00	-42.82
3435.00	-50.40	-57.63	12.73	-5.50	-13.00	-37.40

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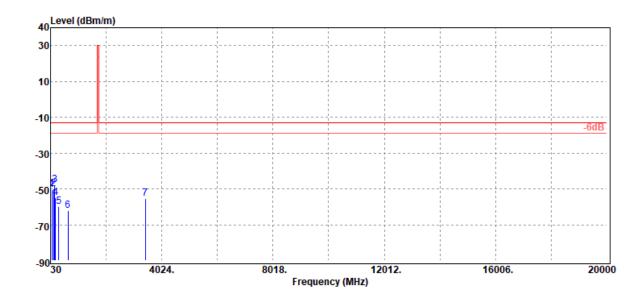
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Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.	: T190327W11 :LTE B4 15 QPSK 1.0 :1717.5 MHz :Tx CH Low :E2 Plan	Test Date Temp./Humi. Engineer Measurement Antenna Pol.	:2019-05-21 :21.2/61 :Jerry :HORIZONTAL
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Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
73.65	-50.37	-40.57	-9.10	-0.70	-13.00	-37.37
141.55	-50.15	-40.87	-8.30	-0.98	-13.00	-37.15
178.41	-47.51	-41.85	-4.56	-1.10	-13.00	-34.51
217.21	-54.77	-51.5	-2.06	-1.21	-13.00	-41.77
322.94	-60.05	-56.76	-1.80	-1.49	-13.00	-47.05
663.41	-61.94	-58.3	-1.47	-2.17	-13.00	-48.94
3435.00	-55.24	-62.47	12.73	-5.50	-13.00	-42.24

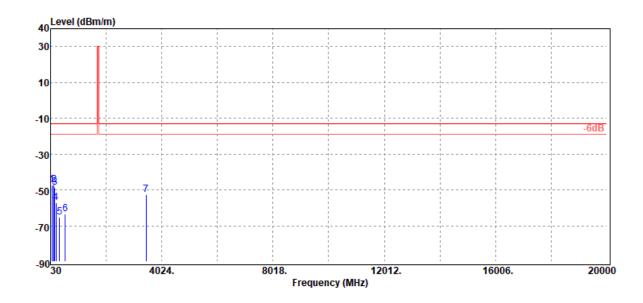
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Project Number Operation Band Fundamental Frequency Operation Mode FUT Pol	: T190327W11 :LTE B4 15 QPSK 1.0 :1732.5 MHz :Tx CH Mid :E2 Plan	Test Date Temp./Humi. Engineer Measurement Antenna Pol.	:2019-05-21 :21.2/61 :Jerry :VERTICAL
EUT Pol.	:E2 Plan		



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
73.65	-47.30	-37.5	-9.10	-0.70	-13.00	-34.30
148.34	-47.16	-38.89	-7.27	-1.00	-13.00	-34.16
178.41	-48.42	-42.76	-4.56	-1.10	-13.00	-35.42
221.09	-57.07	-53.87	-1.98	-1.22	-13.00	-44.07
359.80	-65.09	-61.74	-1.78	-1.57	-13.00	-52.09
550.89	-63.40	-60.23	-1.22	-1.95	-13.00	-50.40
3465.00	-52.89	-60	12.64	-5.53	-13.00	-39.89

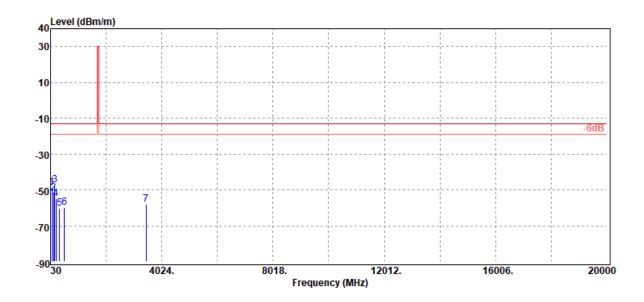
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Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.	: T190327W11 :LTE B4 15 QPSK 1.0 :1732.5 MHz :Tx CH Mid :E2 Plan	Test Date Temp./Humi. Engineer Measurement Antenna Pol.	:2019-05-21 :21.2/61 :Jerry :HORIZONTAL
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Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
73.65	-48.60	-38.8	-9.10	-0.70	-13.00	-35.60
138.64	-51.59	-41.88	-8.74	-0.97	-13.00	-38.59
178.41	-47.17	-41.51	-4.56	-1.10	-13.00	-34.17
219.15	-55.03	-51.79	-2.02	-1.22	-13.00	-42.03
348.16	-60.46	-57.42	-1.50	-1.54	-13.00	-47.46
532.46	-59.92	-56.7	-1.30	-1.92	-13.00	-46.92
3465.00	-58.16	-65.27	12.64	-5.53	-13.00	-45.16

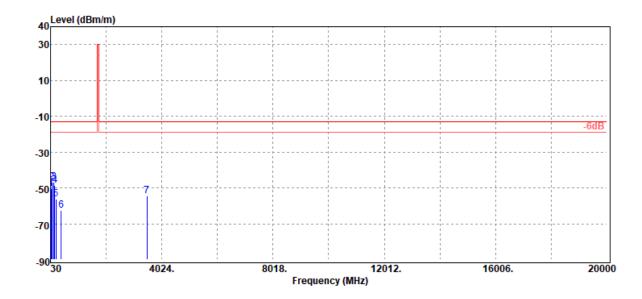
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Operation Band Fundamental Frequency Operation Mode	: T190327W11 :LTE B4 15 QPSK 1.0 :1747.5 MHz :Tx CH High :E2 Plan	Test Date Temp./Humi. Engineer Measurement Antenna Pol.	:2019-05-21 :21.2/61 :Jerry :VERTICAL
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Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-50.47	-36.38	-13.53	-0.56	-13.00	-37.47
73.65	-47.01	-37.21	-9.10	-0.70	-13.00	-34.01
148.34	-46.81	-38.54	-7.27	-1.00	-13.00	-33.81
178.41	-48.70	-43.04	-4.56	-1.10	-13.00	-35.70
219.15	-56.14	-52.9	-2.02	-1.22	-13.00	-43.14
416.06	-62.59	-59	-1.90	-1.69	-13.00	-49.59
3495.00	-54.61	-61.58	12.52	-5.55	-13.00	-41.61

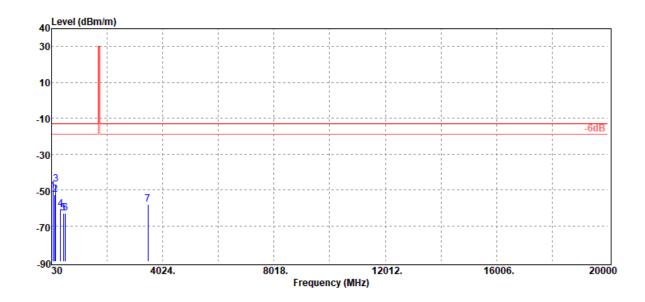
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Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.	: T190327W11 :LTE B4 15 QPSK 1.0 :1747.5 MHz :Tx CH High :E2 Plan	Test Date Temp./Humi. Engineer Measurement Antenna Pol.	:2019-05-21 :21.2/61 :Jerry :HORIZONTAL
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Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
73.65	-50.64	-40.84	-9.10	-0.70	-13.00	-37.64
148.34	-52.54	-44.27	-7.27	-1.00	-13.00	-39.54
178.41	-46.84	-41.18	-4.56	-1.10	-13.00	-33.84
353.01	-60.73	-57.74	-1.44	-1.55	-13.00	-47.73
459.71	-63.08	-59.2	-2.10	-1.78	-13.00	-50.08
532.46	-63.17	-59.95	-1.30	-1.92	-13.00	-50.17
3495.00	-58.16	-65.13	12.52	-5.55	-13.00	-45.16

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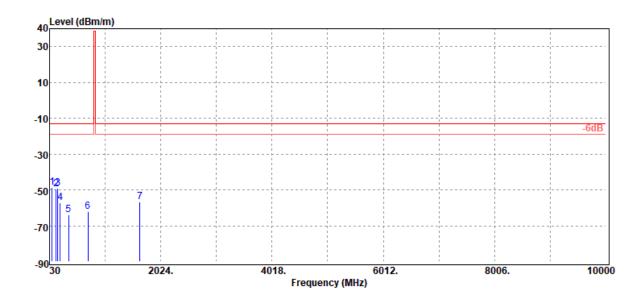


Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.

: T190327W11 :LTE B5 3 QPSK 1.14 :825.5 MHz :Tx CH Low :E2 Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :VERTICAL



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBd/dBi	Loss dB	dBm	dB
73.65	-48.63	-38.83	-9.10	-0.70	-13.00	-35.63
149.31	-49.43	-41.26	-7.17	-1.00	-13.00	-36.43
180.35	-49.14	-43.68	-4.36	-1.10	-13.00	-36.14
222.06	-57.03	-53.85	-1.96	-1.22	-13.00	-44.03
374.35	-64.10	-60.79	-1.71	-1.60	-13.00	-51.10
720.64	-61.94	-58.28	-1.40	-2.26	-13.00	-48.94
1651.00	-56.67	-62.83	9.71	-3.55	-13.00	-43.67

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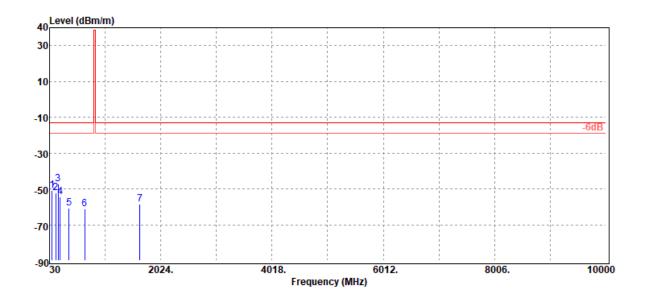
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Project Number : T190327W11 **Operation Band** :LTE B5 3 QPSK 1.14 **Fundamental Frequency** :825.5 MHz **Operation Mode** :Tx CH Low EUT Pol. :E2 Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry :HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBd/dBi	Loss dB	dBm	dB
73.65	-50.84	-41.04	-9.10	-0.70	-13.00	-37.84
143.49	-52.13	-43.15	-8.00	-0.98	-13.00	-39.13
185.20	-47.06	-41.86	-4.08	-1.12	-13.00	-34.06
219.15	-54.52	-51.28	-2.02	-1.22	-13.00	-41.52
379.20	-60.92	-57.78	-1.53	-1.61	-13.00	-47.92
663.41	-61.09	-57.45	-1.47	-2.17	-13.00	-48.09
1651.00	-58.73	-64.89	9.71	-3.55	-13.00	-45.73

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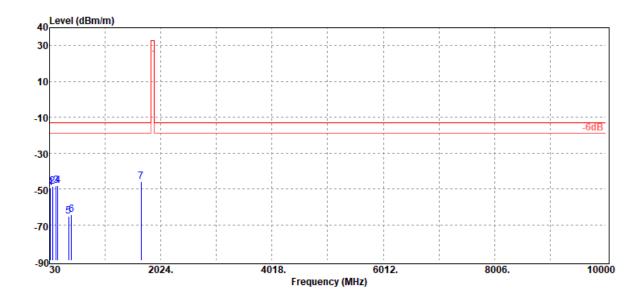
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Project Number : T190327W11 **Operation Band** :LTE B5 3 QPSK 1.14 **Fundamental Frequency** :836.5 MHz **Operation Mode** :Tx CH Mid EUT Pol. :E2 Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :VERTICAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-49.68	-35.59	-13.53	-0.56	-13.00	-36.68
83.35	-48.40	-39.42	-8.23	-0.75	-13.00	-35.40
149.31	-48.23	-40.06	-7.17	-1.00	-13.00	-35.23
178.41	-48.36	-42.7	-4.56	-1.10	-13.00	-35.36
369.50	-65.48	-62.09	-1.80	-1.59	-13.00	-52.48
420.91	-64.21	-60.61	-1.90	-1.70	-13.00	-51.21
1673.00	-45.82	-52.08	9.84	-3.58	-13.00	-32.82

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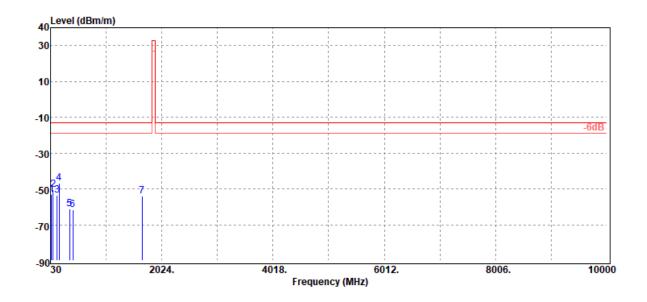
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Project Number : T190327W11 **Operation Band** :LTE B5 3 QPSK 1.14 **Fundamental Frequency** :836.5 MHz **Operation Mode** :Tx CH Mid EUT Pol. :E2 Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry :HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
46.49	-53.17	-38.26	-14.36	-0.55	-13.00	-40.17
73.65	-50.63	-40.83	-9.10	-0.70	-13.00	-37.63
148.34	-53.40	-45.13	-7.27	-1.00	-13.00	-40.40
182.29	-46.81	-41.5	-4.20	-1.11	-13.00	-33.81
374.35	-61.02	-57.71	-1.71	-1.60	-13.00	-48.02
427.70	-61.45	-57.84	-1.90	-1.71	-13.00	-48.45
1673.00	-54.22	-60.48	9.84	-3.58	-13.00	-41.22

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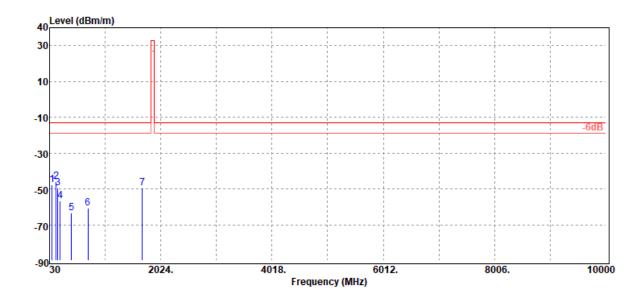
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Project Number : T190327W11 **Operation Band** :LTE B5 3 QPSK 1.14 **Fundamental Frequency** :847.5 MHz **Operation Mode** :Tx CH High EUT Pol. :E2 Plan

Test Date :2019-05-21 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :VERTICAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
73.65	-47.70	-37.9	-9.10	-0.70	-13.00	-34.70
148.34	-45.86	-37.59	-7.27	-1.00	-13.00	-32.86
178.41	-49.50	-43.84	-4.56	-1.10	-13.00	-36.50
219.15	-56.63	-53.39	-2.02	-1.22	-13.00	-43.63
422.85	-63.61	-60.01	-1.90	-1.70	-13.00	-50.61
720.64	-60.82	-57.16	-1.40	-2.26	-13.00	-47.82
1695.00	-49.42	-55.79	9.97	-3.60	-13.00	-36.42

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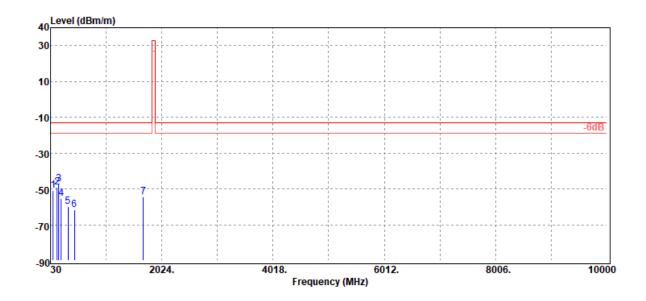
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Project Number : T190327W11 **Operation Band** :LTE B5 3 QPSK 1.14 **Fundamental Frequency** :847.5 MHz **Operation Mode** :Tx CH High EUT Pol. :E2 Plan

Test Date :2019-05-21 Temp./Humi. :21.2/61 Engineer :Jerry :HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
73.65	-50.83	-41.03	-9.10	-0.70	-13.00	-37.83
148.34	-49.24	-40.97	-7.27	-1.00	-13.00	-36.24
178.41	-47.42	-41.76	-4.56	-1.10	-13.00	-34.42
221.09	-55.31	-52.11	-1.98	-1.22	-13.00	-42.31
347.19	-59.75	-56.71	-1.50	-1.54	-13.00	-46.75
459.71	-61.68	-57.8	-2.10	-1.78	-13.00	-48.68
1695.00	-54.63	-61	9.97	-3.60	-13.00	-41.63

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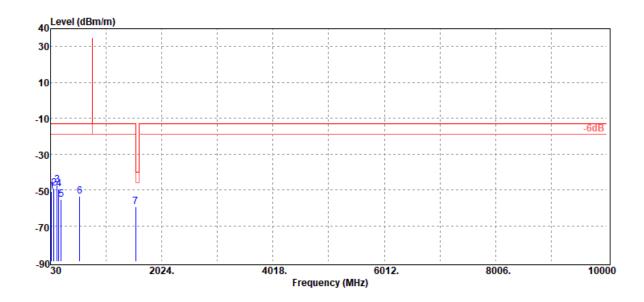


Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Project Number Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

: T190327W11 :LTE B13 5 QPSK 1.24 :779.5 MHz :Tx CH Low :E2 Plan

:2019-05-20
:21.2/61
:Jerry
:VERTICAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
46.49	-50.82	-35.91	-14.36	-0.55	-13.00	-37.82
88.20	-48.85	-40.92	-7.16	-0.77	-13.00	-35.85
148.34	-47.43	-39.16	-7.27	-1.00	-13.00	-34.43
180.35	-49.59	-44.13	-4.36	-1.10	-13.00	-36.59
219.15	-55.36	-52.12	-2.02	-1.22	-13.00	-42.36
550.89	-53.78	-50.61	-1.22	-1.95	-13.00	-40.78
1559.00	-59.47	-65.38	9.35	-3.44	-40.00	-19.47

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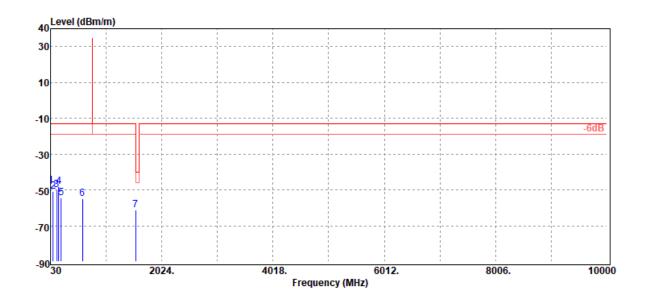
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Project Number : T190327W11 **Operation Band** :LTE B13 5 QPSK 1.24 **Fundamental Frequency** :779.5 MHz **Operation Mode** :Tx CH Low EUT Pol. :E2 Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry :HORIZONTAL Measurement Antenna Pol.



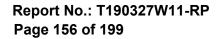
Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
30.00	-47.92	-17.37	-30.10	-0.45	-13.00	-34.92
73.65	-50.74	-40.94	-9.10	-0.70	-13.00	-37.74
143.49	-49.78	-40.8	-8.00	-0.98	-13.00	-36.78
180.35	-48.01	-42.55	-4.36	-1.10	-13.00	-35.01
219.15	-54.61	-51.37	-2.02	-1.22	-13.00	-41.61
605.21	-55.07	-51.99	-1.00	-2.08	-13.00	-42.07
1559.00	-61.27	-67.18	9.35	-3.44	-40.00	-21.27

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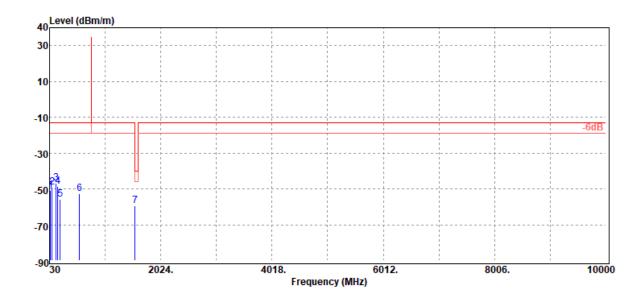
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Project Number : T190327W11 **Operation Band** :LTE B13 5 QPSK 1.24 Fundamental Frequency :782 MHz **Operation Mode** :Tx CH Mid EUT Pol. :E2 Plan

Test Date	:2019-05-20
Temp./Humi.	:21.2/61
Engineer	:Jerry
Measurement Antenna Pol.	:VERTICAL



Freq.	ERP/EIRP	SG Output Loval	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBd/dBi	Loss dB	dBm	dB
46.49	-50.84	-35.93	-14.36	-0.55	-13.00	-37.84
73.65	-49.26	-39.46	-9.10	-0.70	-13.00	-36.26
146.40	-46.77	-38.24	-7.54	-0.99	-13.00	-33.77
178.41	-48.53	-42.87	-4.56	-1.10	-13.00	-35.53
221.09	-55.93	-52.73	-1.98	-1.22	-13.00	-42.93
568.35	-52.76	-49.37	-1.40	-1.99	-13.00	-39.76
1564.00	-59.61	-65.55	9.38	-3.44	-40.00	-19.61

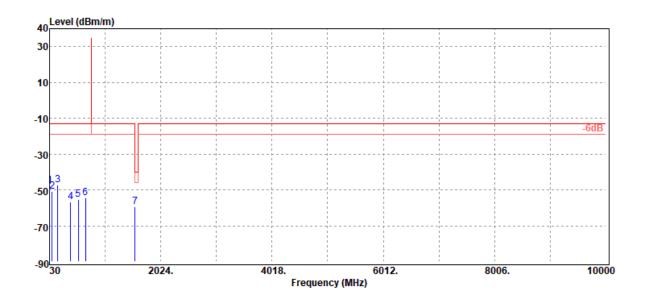
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Project Number : T190327W11 **Operation Band** :LTE B13 5 QPSK 1.24 **Fundamental Frequency** :782 MHz **Operation Mode** :Tx CH Mid EUT Pol. :E2 Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry :HORIZONTAL Measurement Antenna Pol.



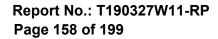
Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-47.74	-17.19	-30.10	-0.45	-13.00	-34.74
73.65	-51.00	-41.2	-9.10	-0.70	-13.00	-38.00
178.41	-47.06	-41.4	-4.56	-1.10	-13.00	-34.06
405.39	-56.85	-53.38	-1.80	-1.67	-13.00	-43.85
544.10	-55.43	-52.27	-1.22	-1.94	-13.00	-42.43
676.99	-54.33	-50.84	-1.30	-2.19	-13.00	-41.33
1564.00	-59.34	-65.28	9.38	-3.44	-40.00	-19.34

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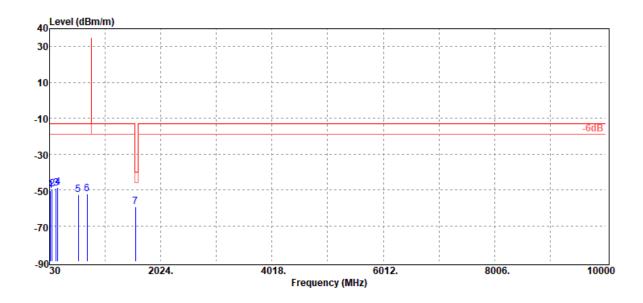
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Project Number : T190327W11 **Operation Band** :LTE B13 5 QPSK 1.24 **Fundamental Frequency** :784.5MHz **Operation Mode** :Tx CH High EUT Pol. :H Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :VERTICAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
46.49	-50.58	-35.67	-14.36	-0.55	-13.00	-37.58
73.65	-49.46	-39.66	-9.10	-0.70	-13.00	-36.46
149.31	-48.86	-40.69	-7.17	-1.00	-13.00	-35.86
180.35	-48.50	-43.04	-4.36	-1.10	-13.00	-35.50
548.95	-52.66	-49.51	-1.20	-1.95	-13.00	-39.66
706.09	-52.40	-48.68	-1.48	-2.24	-13.00	-39.40
1569.00	-59.53	-65.49	9.41	-3.45	-40.00	-19.53

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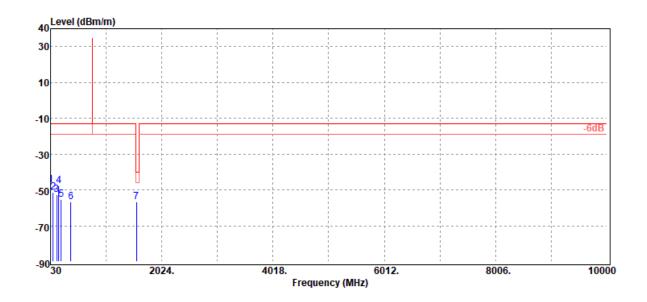
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Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.

: T190327W11 :LTE B13 5 QPSK 1.24 :784.5MHz :Tx CH High :H Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry :HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-47.37	-16.82	-30.10	-0.45	-13.00	-34.37
73.65	-51.31	-41.51	-9.10	-0.70	-13.00	-38.31
143.49	-52.67	-43.69	-8.00	-0.98	-13.00	-39.67
180.35	-47.63	-42.17	-4.36	-1.10	-13.00	-34.63
219.15	-55.50	-52.26	-2.02	-1.22	-13.00	-42.50
390.84	-56.62	-53.55	-1.43	-1.64	-13.00	-43.62
1569.00	-56.67	-62.63	9.41	-3.45	-40.00	-16.67

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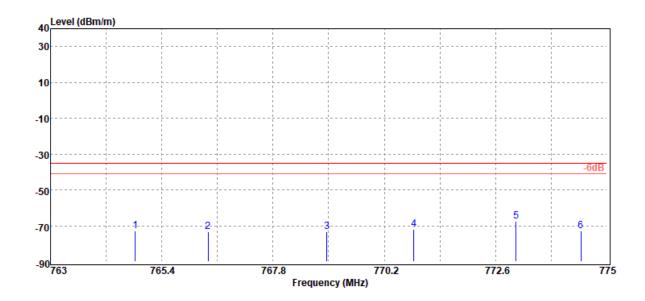


Radiated Spurious Emission Measurement Result: LTE-Band 13(763-775) (The Worst Case)

Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.

: T190327W11 :LTE B13 5 QPSK 1.24 :779.5 MHz :Tx CH Low :E2 Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :VERTICAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
764.82	-72.83	-69.1	-1.40	-2.33	-35.00	-37.83
766.40	-73.47	-69.74	-1.40	-2.33	-35.00	-38.47
768.96	-73.24	-69.51	-1.40	-2.33	-35.00	-38.24
770.84	-71.79	-68.06	-1.40	-2.33	-35.00	-36.79
773.04	-67.51	-63.77	-1.40	-2.34	-35.00	-32.51
774.44	-72.92	-69.18	-1.40	-2.34	-35.00	-37.92

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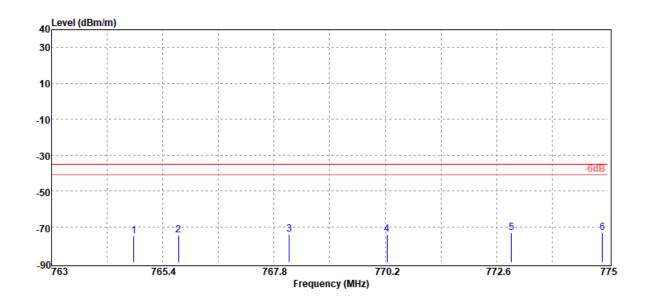
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Project Number : T190327W11 **Operation Band** :LTE B13 5 QPSK 1.24 **Fundamental Frequency** :779.5 MHz **Operation Mode** :Tx CH Low EUT Pol. :E2 Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :HORIZONTAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
764.78	-75.12	-71.39	-1.40	-2.33	-35.00	-40.12
765.74	-74.88	-71.15	-1.40	-2.33	-35.00	-39.88
768.12	-74.48	-70.75	-1.40	-2.33	-35.00	-39.48
770.24	-74.44	-70.71	-1.40	-2.33	-35.00	-39.44
772.92	-73.21	-69.47	-1.40	-2.34	-35.00	-38.21
774.88	-73.48	-69.74	-1.40	-2.34	-35.00	-38.48

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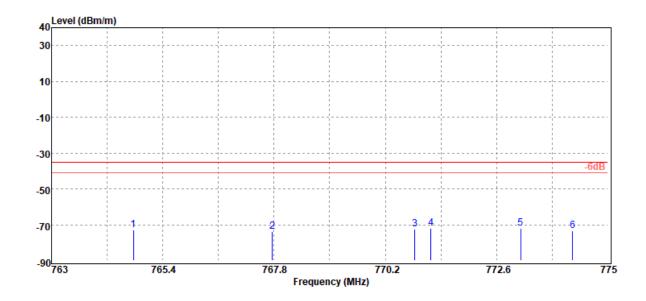
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Project Number : T190327W11 **Operation Band** :LTE B13 5 QPSK 1.24 **Fundamental Frequency** :782 MHz **Operation Mode** :Tx CH Mid EUT Pol. :E2 Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :VERTICAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
764.76	-73.06	-69.33	-1.40	-2.33	-35.00	-38.06
767.76	-73.68	-69.95	-1.40	-2.33	-35.00	-38.68
770.84	-72.41	-68.68	-1.40	-2.33	-35.00	-37.41
771.18	-72.19	-68.46	-1.40	-2.33	-35.00	-37.19
773.12	-71.86	-68.12	-1.40	-2.34	-35.00	-36.86
774.24	-73.18	-69.44	-1.40	-2.34	-35.00	-38.18

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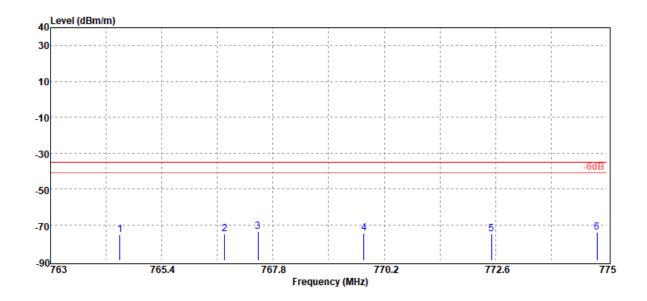
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Project Number Operation Band Fundamental Frequency :782 MHz **Operation Mode** EUT Pol. :E2 Plan

: T190327W11 :LTE B13 5 QPSK 1.24 :Tx CH Mid

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :HORIZONTAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
764.50	-75.40	-71.67	-1.40	-2.33	-35.00	-40.40
766.76	-75.13	-71.4	-1.40	-2.33	-35.00	-40.13
767.48	-74.03	-70.3	-1.40	-2.33	-35.00	-39.03
769.76	-74.70	-70.97	-1.40	-2.33	-35.00	-39.70
772.52	-75.05	-71.31	-1.40	-2.34	-35.00	-40.05
774.78	-74.06	-70.32	-1.40	-2.34	-35.00	-39.06

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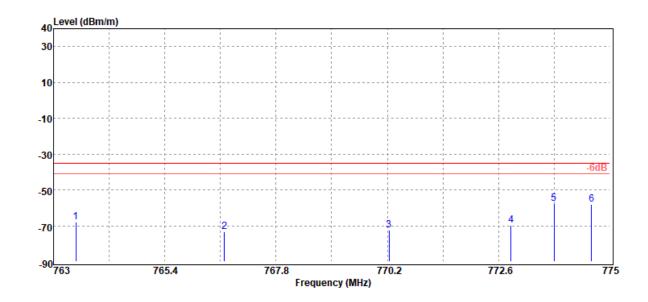
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Project Number : T190327W11 **Operation Band** :LTE B13 5 QPSK 1.24 **Fundamental Frequency** :784.5MHz **Operation Mode** :Tx CH High EUT Pol. :H Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :VERTICAL



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBd/dBi	Loss dB	dBm	dB
					dDiff	
763.48	-67.99	-64.26	-1.40	-2.33	-35.00	-32.99
766.68	-73.17	-69.44	-1.40	-2.33	-35.00	-38.17
770.24	-72.34	-68.61	-1.40	-2.33	-35.00	-37.34
772.86	-69.60	-65.86	-1.40	-2.34	-35.00	-34.60
773.80	-57.71	-53.97	-1.40	-2.34	-35.00	-22.71
774.60	-58.27	-54.53	-1.40	-2.34	-35.00	-23.27

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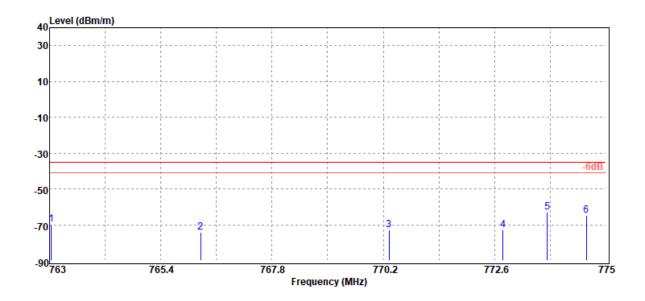
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Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.

: T190327W11 :LTE B13 5 QPSK 1.24 :784.5MHz :Tx CH High :H Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry :HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
763.04	-69.58	-65.85	-1.40	-2.33	-35.00	-34.58
766.26	-74.05	-70.32	-1.40	-2.33	-35.00	-39.05
770.32	-73.00	-69.27	-1.40	-2.33	-35.00	-38.00
772.78	-72.80	-69.06	-1.40	-2.34	-35.00	-37.80
773.74	-62.96	-59.22	-1.40	-2.34	-35.00	-27.96
774.58	-64.99	-61.25	-1.40	-2.34	-35.00	-29.99

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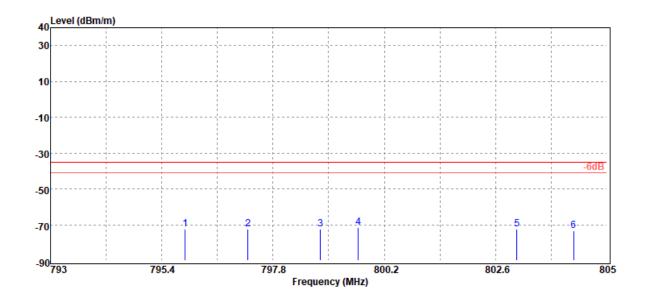


Radiated Spurious Emission Measurement Result: LTE-Band 13(793-805) (The Worst Case)

Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.

: T190327W11 :LTE B13 5 QPSK 1.24 :779.5 MHz :Tx CH Low :E2 Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :VERTICAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
795.90	-72.25	-68.67	-1.22	-2.36	-35.00	-37.25
797.26	-72.35	-68.73	-1.25	-2.37	-35.00	-37.35
798.82	-72.56	-68.91	-1.28	-2.37	-35.00	-37.56
799.64	-71.49	-67.83	-1.29	-2.37	-35.00	-36.49
803.06	-72.50	-68.76	-1.36	-2.38	-35.00	-37.50
804.28	-73.29	-69.52	-1.39	-2.38	-35.00	-38.29

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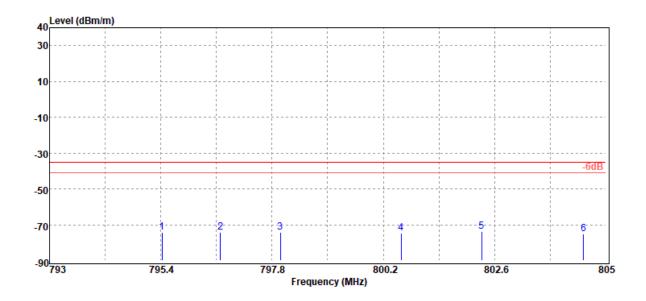
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Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol. :E2 Plan

: T190327W11 :LTE B13 5 QPSK 1.24 :779.5 MHz :Tx CH Low

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :HORIZONTAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
795.42	-74.43	-70.86	-1.21	-2.36	-35.00	-39.43
796.68	-74.24	-70.64	-1.23	-2.37	-35.00	-39.24
797.98	-74.20	-70.57	-1.26	-2.37	-35.00	-39.20
800.58	-74.57	-70.89	-1.31	-2.37	-35.00	-39.57
802.32	-73.97	-70.25	-1.35	-2.37	-35.00	-38.97
804.52	-75.19	-71.42	-1.39	-2.38	-35.00	-40.19

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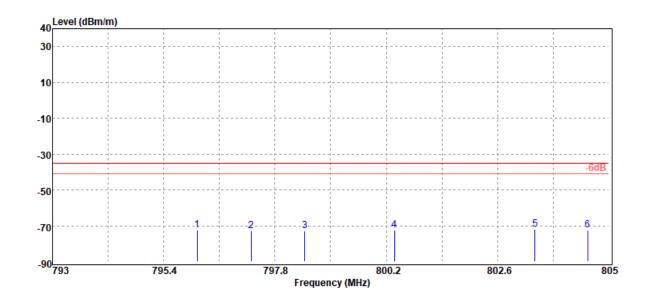
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Project Number : T190327W11 **Operation Band** :LTE B13 5 QPSK 1.24 **Fundamental Frequency** :782 MHz **Operation Mode** :Tx CH Mid EUT Pol. :E2 Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :VERTICAL



Freq.	ERP/EIRP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBd/dBi	Loss dB	dBm	dB
	dDin	dDill		UD	dDill	
796.12	-72.63	-69.05	-1.22	-2.36	-35.00	-37.63
797.28	-72.69	-69.07	-1.25	-2.37	-35.00	-37.69
798.44	-73.08	-69.44	-1.27	-2.37	-35.00	-38.08
800.38	-72.33	-68.65	-1.31	-2.37	-35.00	-37.33
803.40	-72.05	-68.3	-1.37	-2.38	-35.00	-37.05
804.54	-72.45	-68.68	-1.39	-2.38	-35.00	-37.45

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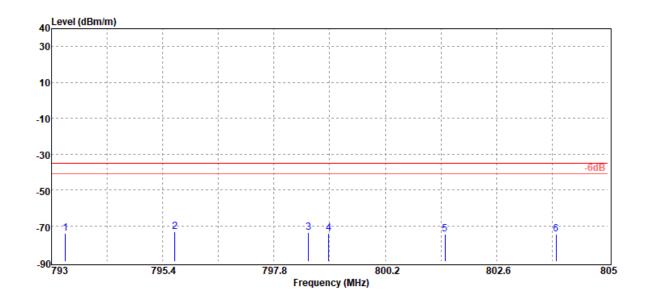
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Project Number : T190327W11 **Operation Band** :LTE B13 5 QPSK 1.24 **Fundamental Frequency** :782 MHz **Operation Mode** :Tx CH Mid EUT Pol. :E2 Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :HORIZONTAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
793.30	-74.09	-70.5	-1.23	-2.36	-35.00	-39.09
795.66	-73.40	-69.83	-1.21	-2.36	-35.00	-38.40
798.54	-73.68	-70.04	-1.27	-2.37	-35.00	-38.68
798.98	-74.07	-70.42	-1.28	-2.37	-35.00	-39.07
801.48	-74.51	-70.81	-1.33	-2.37	-35.00	-39.51
803.88	-74.63	-70.87	-1.38	-2.38	-35.00	-39.63

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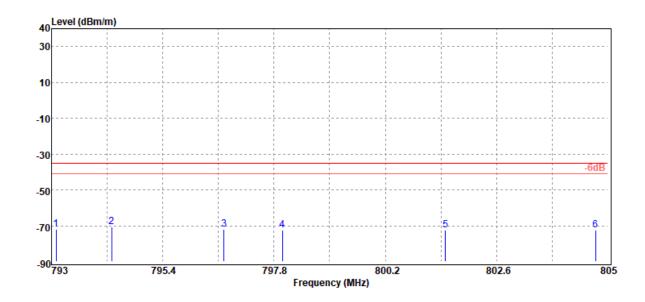
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Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.

: T190327W11 :LTE B13 5 QPSK 1.24 :784.5MHz :Tx CH High :H Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :VERTICAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
793.10	-71.79	-68.19	-1.24	-2.36	-35.00	-36.79
794.30	-70.56	-66.99	-1.21	-2.36	-35.00	-35.56
796.72	-71.84	-68.24	-1.23	-2.37	-35.00	-36.84
797.98	-72.43	-68.8	-1.26	-2.37	-35.00	-37.43
801.50	-72.47	-68.77	-1.33	-2.37	-35.00	-37.47
804.74	-72.30	-68.53	-1.39	-2.38	-35.00	-37.30

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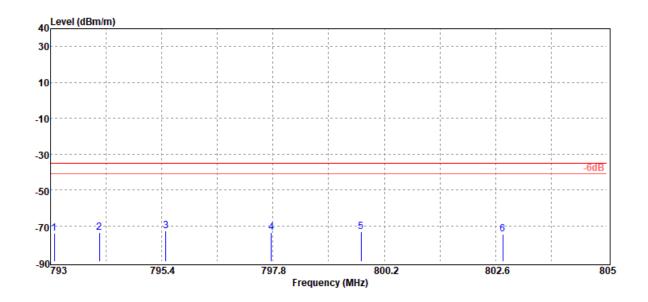
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Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.

: T190327W11 :LTE B13 5 QPSK 1.24 :784.5MHz :Tx CH High :H Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :HORIZONTAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
793.08	-74.28	-70.68	-1.24	-2.36	-35.00	-39.28
794.06	-73.77	-70.19	-1.22	-2.36	-35.00	-38.77
795.48	-72.94	-69.37	-1.21	-2.36	-35.00	-37.94
797.76	-74.03	-70.4	-1.26	-2.37	-35.00	-39.03
799.70	-73.52	-69.86	-1.29	-2.37	-35.00	-38.52
802.76	-74.49	-70.75	-1.36	-2.38	-35.00	-39.49

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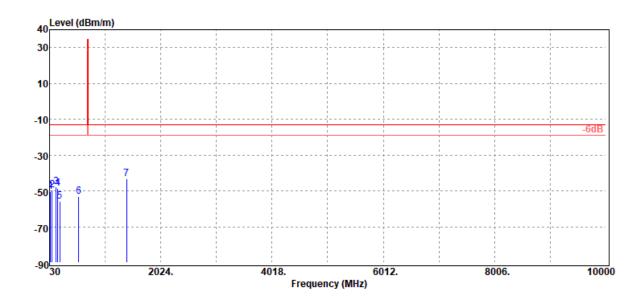


Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Project Number Operation Band Fundamental Frequency Operation Mode EUT Pol.

: T190327W11 :LTE B17 5 QPSK 1.24 :706.5 MHz :Tx CH Low :E2 Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :VERTICAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
46.49	-50.52	-35.61	-14.36	-0.55	-13.00	-37.52
73.65	-49.33	-39.53	-9.10	-0.70	-13.00	-36.33
149.31	-47.62	-39.45	-7.17	-1.00	-13.00	-34.62
177.44	-48.42	-42.67	-4.66	-1.09	-13.00	-35.42
214.30	-55.86	-52.56	-2.10	-1.20	-13.00	-42.86
551.86	-53.23	-50.04	-1.24	-1.95	-13.00	-40.23
1413.00	-43.13	-47.96	8.08	-3.25	-13.00	-30.13

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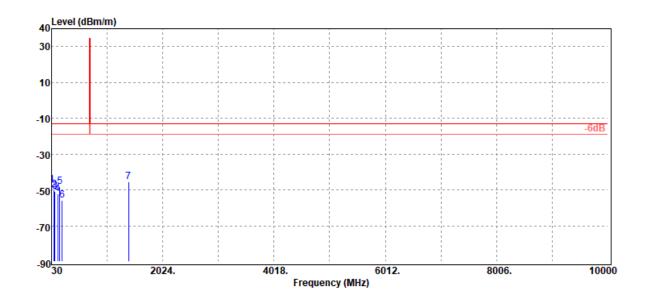
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Project Number : T190327W11 **Operation Band** :LTE B17 5 QPSK 1.24 **Fundamental Frequency** :706.5 MHz **Operation Mode** :Tx CH Low EUT Pol. :E2 Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry :HORIZONTAL Measurement Antenna Pol.



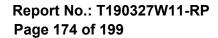
Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
30.00	-47.47	-16.92	-30.10	-0.45	-13.00	-34.47
73.65	-50.09	-40.29	-9.10	-0.70	-13.00	-37.09
88.20	-50.71	-42.78	-7.16	-0.77	-13.00	-37.71
143.49	-52.43	-43.45	-8.00	-0.98	-13.00	-39.43
180.35	-47.97	-42.51	-4.36	-1.10	-13.00	-34.97
219.15	-55.90	-52.66	-2.02	-1.22	-13.00	-42.90
1413.00	-45.56	-50.39	8.08	-3.25	-13.00	-32.56

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:2019-05-20

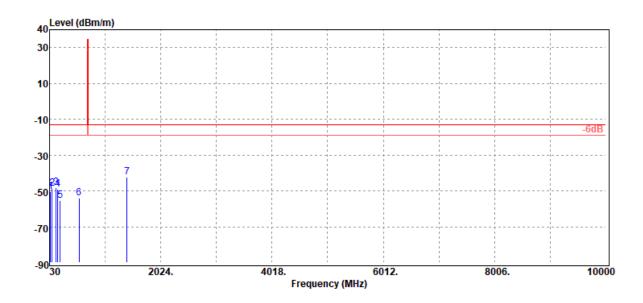
:VERTICAL

:21.2/61

:Jerry



Project Number : T190327W11 Test Date **Operation Band** :LTE B17 5 QPSK 1.24 Temp./Humi. **Fundamental Frequency** :710 MHz Engineer **Operation Mode** :Tx CH Mid Measurement Antenna Pol. EUT Pol. :E2 Plan



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
47.46	-50.55	-36.46	-13.53	-0.56	-13.00	-37.55
75.59	-48.69	-39	-8.98	-0.71	-13.00	-35.69
149.31	-48.22	-40.05	-7.17	-1.00	-13.00	-35.22
180.35	-49.04	-43.58	-4.36	-1.10	-13.00	-36.04
221.09	-55.48	-52.28	-1.98	-1.22	-13.00	-42.48
556.71	-53.92	-50.63	-1.33	-1.96	-13.00	-40.92
1420.00	-42.36	-47.22	8.12	-3.26	-13.00	-29.36

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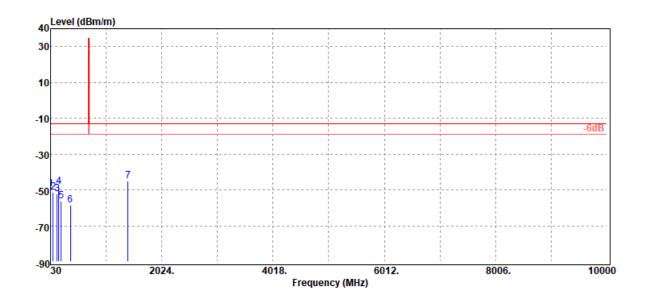
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Project Number : T190327W11 **Operation Band** :LTE B17 5 QPSK 1.24 **Fundamental Frequency** :710 MHz **Operation Mode** :Tx CH Mid EUT Pol. :E2 Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry :HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						—
30.00	-49.43	-18.88	-30.10	-0.45	-13.00	-36.43
73.65	-51.32	-41.52	-9.10	-0.70	-13.00	-38.32
148.34	-52.28	-44.01	-7.27	-1.00	-13.00	-39.28
178.41	-48.06	-42.4	-4.56	-1.10	-13.00	-35.06
219.15	-56.09	-52.85	-2.02	-1.22	-13.00	-43.09
384.05	-58.71	-55.67	-1.42	-1.62	-13.00	-45.71
1420.00	-44.93	-49.79	8.12	-3.26	-13.00	-31.93

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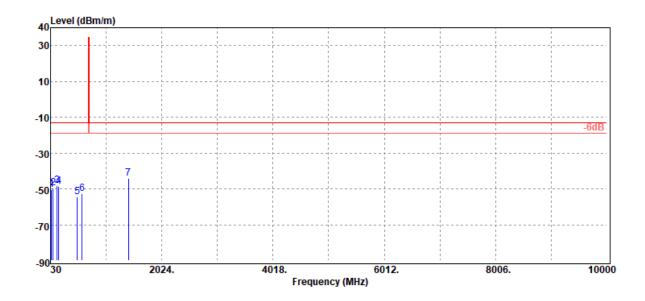
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Project Number : T190327W11 **Operation Band** :LTE B17 5 QPSK 1.24 **Fundamental Frequency** :713.5 MHz **Operation Mode** :Tx CH High EUT Pol. :H Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry Measurement Antenna Pol. :VERTICAL



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
47.46	-50.60	-36.51	-13.53	-0.56	-13.00	-37.60
73.65	-49.48	-39.68	-9.10	-0.70	-13.00	-36.48
149.31	-48.21	-40.04	-7.17	-1.00	-13.00	-35.21
177.44	-48.42	-42.67	-4.66	-1.09	-13.00	-35.42
507.24	-54.65	-50.95	-1.81	-1.89	-13.00	-41.65
597.45	-52.76	-49.85	-0.85	-2.06	-13.00	-39.76
1427.00	-44.07	-48.96	8.16	-3.27	-13.00	-31.07

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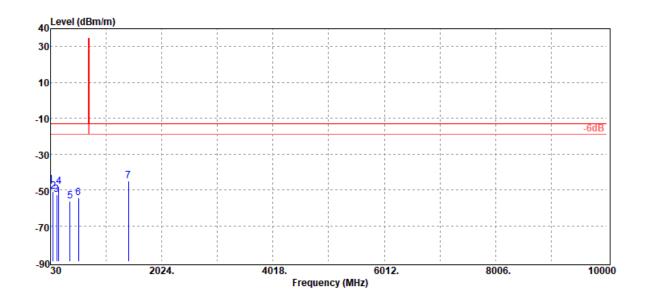
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Project Number : T190327W11 **Operation Band** :LTE B17 5 QPSK 1.24 **Fundamental Frequency** :713.5 MHz **Operation Mode** :Tx CH High EUT Pol. :H Plan

Test Date :2019-05-20 Temp./Humi. :21.2/61 Engineer :Jerry :HORIZONTAL Measurement Antenna Pol.



Freq.	ERP/EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBd/dBi	dB	dBm	dB
						_
30.00	-47.48	-16.93	-30.10	-0.45	-13.00	-34.48
73.65	-50.93	-41.13	-9.10	-0.70	-13.00	-37.93
143.49	-52.65	-43.67	-8.00	-0.98	-13.00	-39.65
178.41	-48.14	-42.48	-4.56	-1.10	-13.00	-35.14
376.29	-56.19	-52.93	-1.65	-1.61	-13.00	-43.19
532.46	-54.59	-51.37	-1.30	-1.92	-13.00	-41.59
1427.00	-45.20	-50.09	8.16	-3.27	-13.00	-32.20

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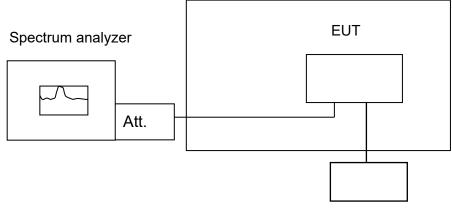
FREQUENCY STABILITY MEASUREMENT 10.

10.1. Standard Applicable

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

10.2. Test Set-up

Temperature Chamber



Variable DC Power Supply

Note: Measurement setup for testing on Antenna connector

10.3. Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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10.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020
DC Block	PASTERNACK	PE8210	RF256	02/26/2019	02/25/2020
Splitter	Woken	DOM35LW1A2	RF83	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020

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10.5. Measurement Result

	WCDN	IA II Mid Channel	1880	MHz
		Limit: +/- 2.5 ppm		
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
	FREQUEN	ICY ERROR vs.	VOLTAGE	
48	20	1880.000002	2	4700
24	20	1880.000004	4	4700
12	20	1879.999998	-2	4700
8.2 (End point)	20	1880.000001	0	4700
	FREQU	ENCY ERROR vs	s. Temp.	
24	50	1879.999997	-3	4700
24	40	1880.000002	2	4700
24	30	1880.000001	1	4700
24	20	1880.000001	0	4700
24	10	1879.999998	-2	4700
24	0	1879.999997	-3	4700
24	-10	1879.999999	-1	4700
24	-20	1879.999998	-2	4700
24	-30	1880.000001	1	4700
	WCDN	A V Mid Channel	836.6	MHz
		Limit: +/- 2.5 ppm)	
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
	FREQUE	NCY ERROR vs.	VOLTAGE	
48	20	836.5999989	-1	2091
24	20	836.5999977	-2	2091
12	20	836.5999995	-1	2091
8.2 (End point)	20	836.6000028	3	2091
	FREQU	ENCY ERROR vs	s. Temp.	
24	50	836.599997	-3	2091
24	40	836.6000054	5	2091
24	30	836.6000043	4	2091
24	20	836.6000018	2	2091
24	10	836.6000025	2	2091
24	0	836.6000037	4	2091
24	-10	836.5999978	-2	2091
24	-20	836.5999985	-2	2091
24	-30	836.6000018	2	2091

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Reference Freq.:		B2 Mid annel	1880	MHz 20M QPSK CH 18900
Power Supply Vdc	Temp. (°C)		Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
		ERROR vs. V		
48	25	1880.000001	1	4700
24	25	1880.000006	6	4700
12	25	1879.999997	-3	4700
8.2	25	1880.000005	5	4700
(End Point)				4700
	Fre	eq. ERROR vs.	Temp.	
24	-30	1879.999999	-1	4700
24	-20	1879.999995	-5	4700
24	-10	1880.000006	6	4700
24	0	1880.000000	0	4700
24	10	1879.999997	-3	4700
24	20	1880.000000	0	4700
24	30	1880.000004	4	4700
24	40	1879.999996	-4	4700
24	50	1880.000001	1	4700
Reference Freq .:		B4 Mid annel	1732.5	MHz 20M QPSK CH 20175
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
		ERROR vs. V	、 <i>,</i>	
48	25	1732.499995	-5	4331
24	25	1732.500009	9	4331
12	25	1732.500006	6	4331
8.2	25	1722 50000	0	4001
(End Point)	25	1732.500000	0	4331
	Free	. ERROR vs.	Temp.	
24	-30	1732.500004	4	4331
24	-20	1732.499997	-3	4331
24	-10	1732.500005	5	4331
24 24			5 -5	4331 4331
	-10	1732.500005		
24	-10 0	1732.500005 1732.499995	-5	4331
24 24	-10 0 10	1732.500005 1732.499995 1732.500004	-5 4	4331 4331
24 24 24	-10 0 10 20	1732.500005 1732.499995 1732.500004 1732.500002	-5 4 2	4331 4331 4331

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Reference Freq .:		B5 Mid annel	836.5	MHz 10M QPSK CH 20525
Power Supply Vdc			Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Freq.	ERROR vs. V	OLTAGE	
48	25	836.500005	5	2091
24	25	836.500006	6	2091
12	25	836.500006	6	2091
8.2 (End Point)	25	836.500008	8	2091
(End Formy	Fre	q. ERROR vs.	Temp.	
24	-30	836.500002	2	2091
24	-20	836.500007	7	2091
24	-10	836.499997	-3	2091
24	0	836.500005	5	2091
24	10	836.500001	1	2091
24	20	836.500005	5	2091
24	30	836.499997	-3	2091
24	40	836.500004	4	2091
24	50	836.500009	9	2091
Reference Freq.:		B13 Mid annel	782	MHz 10M QPSK CH 23230
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
		ERROR vs. V		
48	25	782.000007	7	1955
24	25	782.000007	7	1955
12	25	782.000000	0	1955
8.2 (End Point)	25	782.000008	8	1955
	Fre	q. ERROR vs.	Temp.	
24	-30	781.999999	-1	1955
24	-20	781.999999	-1	1955
24	-10	781.999998	-2	1955
24	0	782.000009	9	1955
24	10	782.000007	7	1955
24	20	781.999997	-3	1955
24	30	782.000007	7	1955
24	40	781.999997	-3	1955
24	50	782.000005	5	1955

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Reference Freq.:		LTE B17 Mid Channel		MHz 10M QPSK CH 23790
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Freq.	ERROR vs. VO	DLTAGE	
48	25	710.000001	1	1775
24	25	710.000009	9	1775
12	25	709.999995	-5	1775
8.2 (End Point)	25	710.000006	6	1775
	Free	q. ERROR vs.	Temp.	
24	-30	710.000008	8	1775
24	-20	710.000000	0	1775
24	-10	710.000008	8	1775
24	0	709.999996	-4	1775
24	10	710.000007	7	1775
24	20	709.999998	-2	1775
24	30	710.000002	2	1775
24	40	710.000004	4	1775
24	50	709.999997	-3	1775

Note: The power supply is rated 24Vdc.

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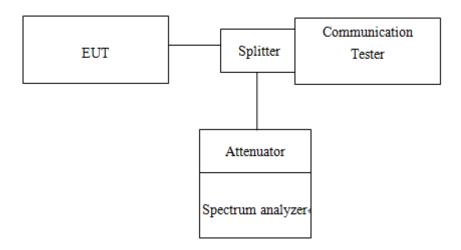


11. PEAK TO AVERAGE RATIO

11.1. Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

11.2. Test SET-UP



11.3. Measurement Procedure

- 1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
- 2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve.

11.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020
DC Block	PASTERNACK	PE8210	RF256	02/26/2019	02/25/2020
Splitter	Woken	DOM35LW1A2	RF83	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020

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11.5. Measurement Result

Tabular Results:

Fre	a		Peak-to	-Average Ra	atio (dB)
(MH		СН	WCDMA	HSDPA	HSUPA
(IVII I	2)		II		
1852	2.4	9262	2.95	4.06	4.26
188	80	9400	2.97	3.89	4.24
1907	7.6	9538	2.96	4.37	4.28

LTE BAND 2									
Channel bandwidth: 1.4MHz				Char	nnel band	lwidth: 3M	Hz		
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)		
(MHz)	СП	16QAM	Limit	(MHz)	CH	16QAM	Limit		
1850.7	18607	6.70	13	1851.5	18615	6.70	13		
1880.0	18900	6.72	13	1880.0	18900	5.99	13		
1909.3	19193	6.70	13	1908.5	19185	6.70	13		

	LTE BAND 2									
Channel bandwidth: 5MHz				Chan	nel band	width: 10N	/IHz			
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)			
(MHz)	CIT	16QAM	Limit	(MHz)	CH	16QAM	Limit			
1852.5	18625	6.58	13	1855.0	18650	6.56	13			
1880.0	18900	6.41	13	1880.0	18900	6.58	13			
1907.5	19175	6.74	13	1905.0	19150	6.51	13			

LTE BAND 2									
Channel bandwidth: 15MHz				Chan	nel band	width: 20N	ЛНz		
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)		
(MHz)	СП	16QAM	Limit	(MHz)	CH	16QAM	Limit		
1857.5	18675	6.53	13	1860.0	18700	6.56	13		
1880.0	18900	6.48	13	1880.0	18900	6.47	13		
1902.5	19125	6.59	13	1900.0	19100	6.49	13		

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LTE BAND 4									
Channel bandwidth: 1.4MHz				Chan	nel ban	dwidth: 3N	/Hz		
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)			
(MHz)	СП	16QAM	Limit	(MHz)	CH	16QAM	Limit		
1710.7	19957	6.87	13	1711.5	19965	6.74	13		
1732.5	20175	6.15	13	1732.5	20175	6.39	13		
1754.3	20393	6.68	13	1753.5	20385	6.85	13		

LTE BAND 4									
Channel bandwidth: 5MHz				Chan	nel band	lwidth: 10l	MHz		
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)		
(MHz)	СП	16QAM	Limit	(MHz)	CH	16QAM	Limit		
1712.5	19957	6.63	13	1715.0	20000	6.55	13		
1732.5	20175	6.14	13	1732.5	20175	6.32	13		
1752.5	20375	6.73	13	1750.0	20350	6.60	13		

LTE BAND 4							
Chan	nel band	lwidth: 15l	MHz	Chan	nel band	lwidth: 20l	MHz
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)	
(MHz)	СП	16QAM	Limit	(MHz)	Сп	16QAM	Limit
1717.5	20025	6.57	13	1720.0	20050	6.41	13
1732.5	20175	6.11	13	1732.5	20175	6.21	13
1747.5	20325	6.51	13	1745.0	20300	6.60	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Chai	nnel band	lwidth: 3M	Hz
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)
(MHz)	Сп	16QAM	Limit	(MHz)	СП	16QAM	Limit
824.7	20407	6.19	13	825.5	20415	5.96	13
836.5	20525	6.94	13	836.5	20525	7.00	13
848.3	20643	5.85	13	847.5	20635	5.91	13

LTE BAND 5							
Channel bandwidth: 5MHz				Char	nel band	width: 10N	/Hz
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)
(MHz)	СП	16QAM	Limit	(MHz)	Сп	16QAM	Limit
826.5	20425	5.79	13	829.0	20450	6.08	13
836.5	20525	6.60	13	836.5	20525	6.79	13
846.5	20625	5.88	13	844.0	20600	5.45	13

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LTE BAND 13							
Channel bandwidth: 5MHz			Chan	nel band	lwidth: 10l	MHz	
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)	
(MHz)	СП	16QAM	Limit	(MHz)		16QAM	Limit
779.5	23205	6.46	13				
782.0	23230	6.42	13	782.0	23230	6.46	13
784.5	23255	6.46	13				

LTE BAND 17							
Channel bandwidth: 1.4MHz				Chai	nnel band	width: 3M	IHz
Freq.	СН	PAPR	(dB)	Freq. CH		PAPR	(dB)
(MHz)	CIT	16QAM	Limit	(MHz)	СП	16QAM	Limit
706.5	23755	5.98	13	709.0	23780	6.34	13
710.0	23790	6.62	13	710.0	23790	6.44	13
713.5	23825	6.52	13	711.0	23800	6.45	13

Measurement Results:

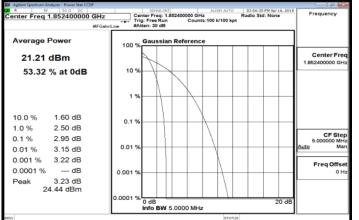
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WCDMA_B2_LowCH9262-1852.4



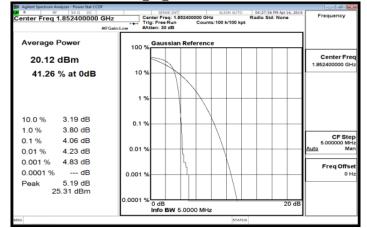
WCDMA_B2_MidCH9400-1880

Agilent Spectrum Analyzer - Power Stat CCDF		
Center Freq 1.880000000 GHz	SENSE.INT ALIGN AUTO 03:57:31 PM Apr16, 2019 Center Freg: 1,880000000 GHz Radio Std: None	Frequency
#FGain:	Trig: Free Run Counts:100 k/100 kpt	
Average Power	100 % Gaussian Reference	
21.47 dBm		Center Freq
	10 %	1,88000000 GHz
53.01 % at 0dB	10 %	
	1 %	
10.0 % 1.63 dB	0.1%	
1.0 % 2.52 dB		
0.1 % 2.97 dB		CF Step 5.000000 MHz
0.01 % 3.16 dB	0.01 %	<u>Auto</u> Man
0.001 % 3.21 dB		
0.0001 % dB	0.001 %	Freq Offset 0 Hz
Peak 3.23 dB		
24.70 dBm		
	0.0001 % 0 dB 20 dB	
	Info BW 5.0000 MHz	

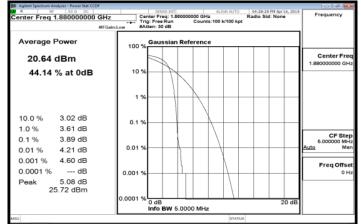
WCDMA B2 HighCH9538-1907.6

Agitent Spectrum Analyzer - Power Stat CCDF	SENSE:INTI ALIGN AUTO 03:59:31 PM A	- 4 -
Center Freq 1.907600000 GH		
Average Power	100 % Gaussian Reference	
21.64 dBm		Center Freq 1.907600000 GHz
52.94 % at 0dB	10 %	
	1 %	
10.0 % 1.63 dB 1.0 % 2.50 dB	0.1 %	
0.1 % 2.96 dB 0.01 % 3.18 dB	0.01 %	CF Step 5.000000 MH <u>Auto</u> Mar
0.001 % 3.31 dB 0.0001 % dB Peak 3.32 dB	0.001 %	Freq Offset
24.96 dBm	0.0001 % 0 dB	20 dB
sg	STATUS	

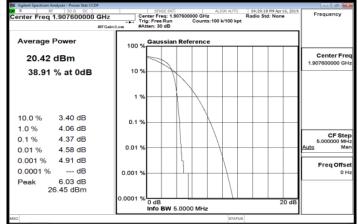
HSDPA_B2_LowCH9262-1852.4



HSDPA_B2_MidCH9400-1880



HSDPA_B2_HighCH9538-1907.6



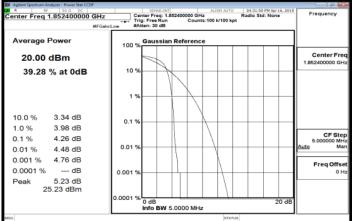
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HSUPA_B2_LowCH9262-1852.4



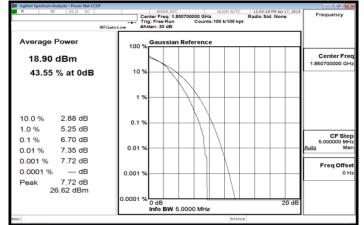
HSUPA_B2_MidCH9400-1880

Agilent Spectrum Analyzer - Power Stat CCDF	SENSE:INT ALIGN AUTO 04:32:37 PM Apr16, 2011	
Center Freq 1.880000000 GHz #FGain	Center Freq: 1.88000000 GHz Radio Std: None Trig: Free Run Counts:100 k/100 kpt Low #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
20.21 dBm		Center Freq 1.88000000 GHz
39.65 % at 0dB	10 %	
	1 %	
10.0 % 3.33 dB 1.0 % 3.96 dB	0.1 %	
0.1 % 4.24 dB 0.01 % 4.46 dB	0.01 %	CF Step 5.000000 MHz Auto Man
0.001 % 4.98 dB 0.0001 % dB Peak 5.70 dB	0.001 %	Freq Offset 0 Hz
25.91 dBm	0.0001 % 0 dB 20 dB	

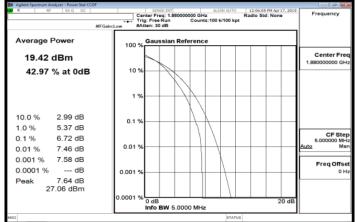
HSUPA_B2_HighCH9538-1907.6

Agilent Spectrum Analyzer - Power Stat CCDF	— — <u> </u>	
02 R 85 50 Ω 0C Center Freq 1.907600000 GHz ⊮FGei	Center Freq: 1.90760000 GHz Radio Std: None Trig: FreqRun Counts:100 k/100 kpt #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
20.43 dBm		Center Freq 1.907600000 GHz
39.87 % at 0dB	10 %	
	1 %	
10.0 % 3.32 dB 1.0 % 3.97 dB	0.1 %	-
0.1 % 4.28 dB 0.01 % 4.53 dB	0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man
0.001 % 5.09 dB 0.0001 % dB Peak 6.32 dB	0.001 %	Freq Offset 0 Hz
26.75 dBm	0.0001 % 0 dB 20 d	IB
MSG	STATUS	

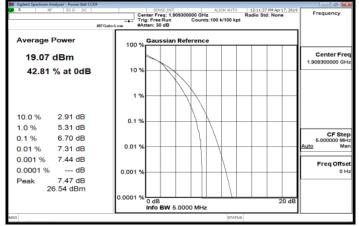
LTE_Band2_1_4MHz_16QAM_6_0_LowCH18607-1850.7



LTE_Band2_1_4MHz_16QAM_6_0_MidCH18900-1880



LTE_Band2_1_4MHz_16QAM_6_0_HighCH19193-1909.3



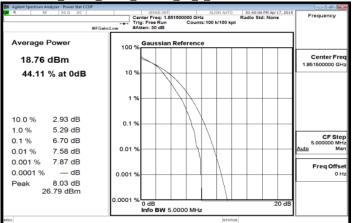
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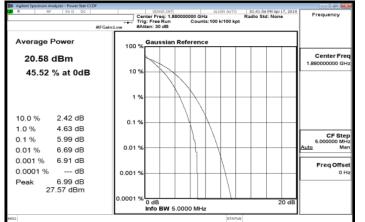
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LTE_Band2_3MHz_16QAM_15_0_LowCH18615-1851.5



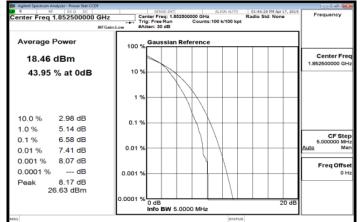
LTE_Band2_3MHz_16QAM_15_0_MidCH18900-1880



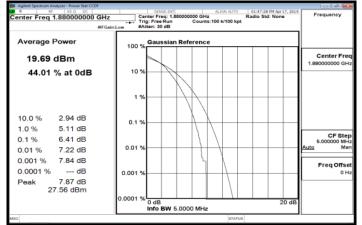
LTE_Band2_3MHz_16QAM_15_0_HighCH19185-1908.5

Agilent Spectrum Analyzer - Power Stat CCDF		
R RF SO DC	SENSE:INT ALIGN AUTO 01:44:27 PM Apr17, 2019 Center Freq: 1.908500000 GHz Radio Std: None Tris: Free Run Counts:100 k/100 kpt	Frequency
AFGair		
Average Power	100 % Gaussian Reference	
19.27 dBm		Center Freq 1.908500000 GHz
43.34 % at 0dB	10 %	
	1%	
10.0 % 2.96 dB 1.0 % 5.35 dB	0.1 %	
0.1 % 6.70 dB 0.01 % 7.43 dB	0.01 %	CF Step 5.000000 MHz Auto Man
0.001 % 7.78 dB 0.0001 % dB	0.001 %	Freq Offset
Peak 7.81 dB 27.08 dBm		
	0.0001 % 0 dB 20 dB Info BW 5.0000 MHz	
MSG	STATUS	

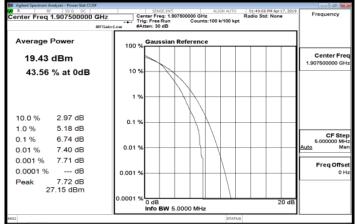
LTE_Band2_5MHz_16QAM_25_0_LowCH18625-1852.5



LTE_Band2_5MHz_16QAM_25_0_MidCH18900-1880



LTE_Band2_5MHz_16QAM_25_0_HighCH19175-1907.5



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