Report No.: E2/2019/A0029 Page 408 of 594



30MHz~3GHz_Band66_1_4MHz_QPSK_1_0_HighCH132665-1779.3

~		,			_				ert Anny Anno 5		
Frequency	May 20, 2019	TRAD	e: Log-Pwr	Avg	a :201	1	-17		SE 10		R
1. 1.	P N P N P	TVP DE				#Atten: 30	NO: Fest - Gein Low	P	1.00.00		
Auto Tu	3 GHz 1 dBm	r1 1.779 24.1	Mk	1		-		3.8 dB dBm	Ref Offset 1 Ref 30.00	/div	IO dB
Center Fr				1					-	-	0g
1.515000000 G		_			-		-				10.0
Start Fr	11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1										0.0
30.000000 M		-	1							-	20.0
Stop Fr	manufilm	inverse	way a read	-	-		hermonist	Adaman	-	-	40.E
3.000000000 G					-					1	50(D
CF St 297.000000 M	000 GHz	Stop 3.	Sweep 3.		-	1.0 MHz	#VB		GHz 0 MHz	0.030 BW 1	tart
Auto N		FUNCTO	ZICHCO WEREN			24.11 dE	3 GHz	1 770			
Freq Off							J. J. L				2345
Scale Ty	=		_	_	+		-			-	6789
Log				-					-	-	10
			STATUS		-	-					100

3GHz~10GHz_Band66_1_4MHz_QPSK_1_0_HighCH132665-1779.3

inapt SA				228
000000 GHz		Avg Type: Log-Pwr	TN406 1 2 3 2 5 4	Frequency
IFGein:Low dBm	#Atten: 30 dB	٨		Auto Tun
				Center Fre
			per+ranani Q1	Start Fre 3.000000000 GR
		hansan alurundu daareediyaaa	grashlare nglan andresanthare	Stop Fre 20.000000000 GH
#VB	2 - 1 - 2 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0			CF Ste 1.70000000 GR Auto Mi
18.775 GHz 3.559 GHz 5.338 GHz	-31.83 dBm -40.41 dBm -37.83 dBm	INCTION: FUNCTION WOTH	FOR TO AVAILUE	Freq Offs 0 F
				Scale Typ
	Boond GHZ Problem Boond Charles Problem Boond Charles Problem Boond Charles Problem Boond Charles Boond Charles Boond Charles Boond Charles Boond Charles Problem Boond Charles Problem Boond Problem Boond Problem Boond Problem Boond Problem Boond Problem Boond Problem Boond Problem Boond Problem Boond Problem Boond Problem Boond Problem Boond Problem	BOODOOD GHZ PRODUCTION PRODU	2000000 GHz Tig Fee Num File: Feet File: Feet (See Num State: 10 dB Mag Type: Log-Peer Bits Mag Type: Log-Peer	38 dB MK3 5.33 GHz 38 dB -37.83 dBm 7000 Feat -30.00 dHz 7000 Feat -30.00 dHz 80 Feat -37.83 dBm 7000 Feat -37.83 dBm

30MHz~3GHz_Band66_3MHz_QPSK_1_0_LowCH131987-1711.5

2 E 24									Adam / dam - San			
Frequency	11 Mary 20, 2019 DE 1 2 3 2 5 6 RE PL N N N N N	TRAD	e: Log-Pwr	Ave		1.0.0	Z O: Fest	00000 GH	1.51500	Freq		ler:
Auto Tune	1 0 GHz 12 dBm		Mk		V GE	APRIL 1	sten Low	B dB	Offset 13		Bidia	
Center Fre 1.515000000 GH				1					00.00			og 20.0
Start Fre 30.000000 MH	DE1-40100-0Dm											
Stop Fre 3.000000000 GH	udre-udrack	al francisco de la constante de	alan dan persona dan series dan s	www.		an politication			محصلونين	~+.di	-	
CF Ste 297.000000 Mi Auto Ma	.000 GHz (1001 pts)	Stop 3. 600 ms (Sweep 3	1		1.0 MHz	#VBW			030 GH N 1.0 I	rt 0.0	tai
Energy wa	BWWWWE	EUVINO	NEICENWOOR	CONCTRON-	3m	26.12 dE	GHz	1.711	-	T T	N	
Freq Offse 0 H	=											2345
Scale Typ			_									23456789011
Log Li						-	-					페
		-	Status									KG I

3GHz~10GHz_Band66_3MHz_QPSK_1_0_LowCH131987-1711.5

Mkr3 5 -36		#Atten: 3	IFGeIniLow	/set 13.8 dB 0.00 dBm		B/div
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				3		
a the frankline of more than the standing of the second second second second second second second second second	and shares	6-4-48-4-14-44-46-66-66-66-66-66-66-66-66-66-66-66	underst Highwards (and the second	totar, A. A. Tongo	100
Stop 2 Sweep 28.33 ms		W 1.0 MHz	#VBI	z		
ION FUNCTION WETHIN FUNC		-31.87 dE	099 GHz	19.0	T III	N
	Bm Bm	-39.44 dE -36.91 dE	3.423 GHz	3.	1	NN
op 2 ms	Steep 28.33	Strator Etratorial	V 1.0 MHz Sweep 28.33	#VBW 1.0 MHz Sweep 28.33	#VEW 1.0 MHz Sweep 28.33 19 000 CH2 31 B7 dBm Sumicon Sumicon 19 000 CH2 31 B7 dBm Sumicon Sumicon	00 GHz #VBW 1.0 MHz Steep 28.33

30MHz~3GHz_Band66_3MHz_QPSK_1_0_MidCH132322-1745

20 A A							et dan Jam - Sa	CALCUMPTER OF	140
Frequency	102-44 32 PM May 20, 2019 10405 3, 2, 3 + 5 + 1,755 PM MAN N DET P N N N N N	Type: Log-Pwr	Avg	g: Free Run	Fest			er Frei	Sent
Auto Tun	1 1.743 7 GHz 24.27 dBm	Mk		ten: av ob	in Low	8 dB	tef Offset 13 tef 30.00		0 dE
Center Fre 1.515000000 GH		_	1	-					20.0
Start Fre 30.000000 MH	D(1-1500-DM			_		_			1 001 0 0 0 0
Stop Fre 3 00000000 GH	an yang ber ber an	****		and a Special or	بهرمون والإسباد و	مرجله بالمرسم ا	r coulturistication	na gana ta	0.0 0.0 0.0
CF Ste 297.000000 Mi Auto Ma	Stop 3.000 GHz 500 ms (1001 pts)	Sweep 3.		MHz	#VBW 1		MHz	0.030 BW 1.	tar
Freq Offse 0 H			-Calcines	27 dBm	GHZ	1,743 7	T		
Scale Typ									234 567 890
		TAINS		-			1		11

3GHz~10GHz_Band66_3MHz_QPSK_1_0_MidCH132322-1745

	102-45 20 PM Nov 20 2029			3 83 .00				1-knjig/an - Sil		R
Frequency	TRACE 1 2 3 4 5 5 TYPE PLANNER	pe: Log-Pwr	Ave		Trig: Fra	NO: Fast -	000000 G	11.500	Freq	enter
Auto Tun	kr3 5.235 GHz -36.99 dBm	м		30.00	#Atten: .	GeiniLow	.8 dB	f Offset 1		
Center Fre	-50,55 (15)		1.	1			dBm	ef 30.00	V R	dB/di
11.500000000 GH		-		-		-			_	10
Start Fre	000-1000-000									10
3.000000000 GH	T,			-		-	-	.3		10
Stop Fre	monor production	der mentania	aler and a fair a	-	at the state of the second	-tent misur	adjumtications	and showy	Freese	10 3
20.000000000 GH	-									0.0
CF Ste 1.700000000 GH	Stop 20,000 GHz			łz	W 1.0 MH	#VB	-		.000 G	
Auto Ma	FUNETER WALKE	UNDERWOOD	-			-	x			
Freq Offse 0 F				dBm	-32,48 d -39,79 d -36,99 d	2 GHz 0 GHz 5 GHz	3.49		1	NNN
Scale Typ		_		-		-				4 5 7 8 9
Log L								-		1
		STATUS								-

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30MHz~3GHz_Band66_3MHz_QPSK_1_0_HighCH132657-1778.5

Kanana San	there in the second second	Simpli 54	2192.5/11		103-47:03 PH Nov 20, 2029	212 84
Center F		000000 GHz PNO: Fest		Avg Type: Log-Pwr	THADE 1 2 3 4 5 6 THE NUMBER	Frequency
10 dB/div	Ref Offset Ref 30.0	13.8 dB	*Anali: 30 00	MH	r1 1.776 4 GHz 24.18 dBm	Auto Tun
20.0 10.0				1		Center Fre 1.515000000 GH
100 100 -100	-				tit - 4 starale	Start Fre 30.000000 MH
-30.0 -40.0 um/HA 60.0 -60.0			han an a	Annon a survey of the second s	45484739 ¹ 7494479 ¹⁹ 945421949977	Stop Fre 3.000000000 GH
Start 0.03	1.0 MHz	#VE	W 1.0 MHz	Sweep 3	Stop 3.000 GHz .600 ms (1001 pts)	CF Ste 297.00000 Mi Auto Ma
7 N 2 3 4 5	1	1.776 4 GHz	24.18 dBm			Freq Offs 01
6 7 8 9 10						Scale Typ
11 1	1		-	STATU		

3GHz~10GHz_Band66_3MHz_QPSK_1_0_HighCH132657-1778.5

Frequency	PH Nov 20, 2019	1764	e: Log-Pwr	Avg	Rue	1	SHz	000000	q 11.50	er Fre	l R Cent
Auto Tu	DET P. N.P. N.W. P.		-			#Atten: 3	NO: Fest Gein/Low		_	-	<u> </u>
Auto Tu	336 GHz .64 dBm					_			Ref Offset Ref 30.0		10 dE
Center Fr								-			.0g
11.500000000 G				1		-			-		10.0
Start Fre				1							10.0
3.000000000 G	A1		-			-	-	-		1.104	20.0
	Lawyson	-	meesen los	And the second	Anter	-	a spinamina	-	and an	and frence in	30 0. 40 0.
Stop Fre 20.000000000 Gi			-		1			1			50(D
											60.03
CF Ste 1.70000000 GI	0.000 GHz (1001 pts)		Sweep 2			1.0 MHz	#VB			3.000 BW 1.	
Auto M	ICHANNE -	1000 E0.710	NETCONWEITE	000000		-32.44 di	22 GHz	×			
Freq Offs 01					3m	-38.62 di -38.64 di	67 GHz 36 GHz	3.6	1	N 1	2 3 4 5
Scale Typ			_		-		-		_		6 7 8
Log		_	_		-		-		_		9 10 11
COR P											

30MHz~3GHz Band66 5MHz QPSK 1 0 LowCH131997-1712.5

0.2.8	PH Nov 20, 2029							1134	Anna an	STE Spatteers	- 540
Frequency	ACE 1 2 3 2 5 6	TRA	ype: Log-Pwr	A	Run	Trig: Free	Z KO: Fest -+-	0000 GH			ent
Auto Tur	10 GHz		A.L	_	dB	#Atten: 30	Sein Low	IFC		_	-
	.14 dBm		NUN			-		8 dB Bm	f Offset 13.	div Re	0 dB
Center Fre				1	1					-	0g
1.515000000 GH		-			-						0.0
	C1-12/00/00		1		- 1					-	
Start Fre 30.000000 Mi	DE1-4 2 CO 4DM						1	-	_		0.0
00,00000 (0)			-				1	-		-	30 A.
Stop Fre	and the second s		-1	- Algerta	trink!	- Smallwine		مادرجنب	Acardon and		
3.00000000 Gi				1							0.0
CF Ste 297 000000 M	3.000 GHz (1001 pts)		Purcon 2	-	-	1.0 MHz	#VDW	-		0.030 G	
Auto Ma			aweep a	stheney		1.0 14112				KOLENER	
					m	26.14 dB	GHZ	1.711	-		
Freq Offs 01							_				2 3 4 5 6 7 8 9 0
					-		-		-		6
Scale Typ	_				-					-	8
Log							_		-		10
-			TATUS		-	-				_	100

3GHz~10GHz_Band66_5MHz_QPSK_1_0_LowCH131997-1712.5

Frequency	TRACE 1 2 3 2 5 6 TRACE 1 2 3 2 5 6 TURE H WWWWW	Avg Type: Log-Pwr	Free Run	1	0 GHz PNO: Fest -	1.50000000	Freq 1	ter
Auto Tun	473 5.138 GHz -37.31 dBm	м	L'av up	#ANITALITY	H-Laten Low)ffset 13.8 dB 30.00 dBm		B/div
Center Free 11.500000000 GH								
Start Fre 3.000000000 GH	namet-un			-	-	3		
Stop Fre 20.000000000 GH		hannahaanti andi pelaketaa	~~	sentrangu	arrain an ann an a	and a second second	All control	-07
CF Ste	Stop 20.000 GHz 33 ms (1001 pts)		Hz	W 1.0 MH	#VB		00 GHz / 1.0 M	rt 3.0
	FUNETIEN WARE	HUNCLEWWEIGH					CONTRACTOR OF	N
	1.1			-32.72	8.725 GHz			
			dBm	-32.72 s -39.81 s -37.31 s	8.725 GHz 3.425 GHz 5.138 GHz		11	NN
Auto Ma Freq Offse			dBm	-39.81 (3.425 GHz			NN

30MHz~3GHz_Band66_5MHz_QPSK_1_0_MidCH132322-1745

								Tridenty and - See		Ave-gett.
Frequency	18405 1 2 3 4 5 5 TRADE 1 2 3 4 5 5 Trade North North	Type: Log-Pwr		Free Run	Trig: F	NO: Fast	00000 GH	1.51500		enter
Auto Tune	1 1.743 7 GHz 24.16 dBm	Mki	-	1: 30 00	#Adden	GeiniLow	B dB	of Offset 13		dB/div
Center Free 1.515000000 GH					-	-		-		0.0
Start Free	011-1300 @M			-	-					00 3 0 3 0
Stop Fre 3.000000000 GH	ha saa lantu ngiyona ay maagin	and the second	alan	-energia				eren ander		0.0 0.0 0.0 0.0
CF Ste 297.000000 MH Auto Ma	Stop 3.000 GHz 500 ms (1001 pts)	Sweep 3.		Hz	W 1.0 M	#VB		MHz	W 1.0	art 0. Res Bi
Freq Offse 0 H	RUNICICANALOS	FURITERVENT	SUNCTION	5.dBm	24.16	7 GHz	1,743			1 N 2 3 4 5
Scale Typ										2 3 4 5 6 7 8 9 1
		STATUS			~					

3GHz~10GHz_Band66_5MHz_QPSK_1_0_MidCH132322-1745

	103-37(20 PM Nov 20 2039		-	3192.0		411.34	ert Hangker - Son	An OTT Spin
Frequency	TRACE 1 2 3 2 5 5 THE PURCH	ype: Log-Pwr	Ave	Trig: Free Run	Hz IO: Fest	00000 G	q 11.5000	nter Fr
Auto Tune	kr3 5.235 GHz -39.23 dBm	M		#Atten: 30 dB	Sein Low	1F(Ref Offset 13 Ref 30.00 d	dB/div
Center Free 11.50000000 GH						1011	Ker 30.00 C	0
Start Free 3.000000000 GH	Reverse A	-	_	_		_		
Stop Free 20.000000000 GH	antine prime with the second second	standerstation provident provident provident provident provident provident provident provident provident provid Transmission of the standard provident provident provident provident provident provident provident provident pro	and the second second	get a reason of some	nyunyunuluk	condeput	and Carboan	a sta
CF Step 1.700000000 GH Auto Mar	Stop 20.000 GHz .33 ms (1001 pts)	Sweep 28		1.0 MHz	#VBW		0 MHz	es BW
Freq Offse 0 H	ebzer Gyrwadde	FUNCTION VIETT		-33.12 dBm -39.09 dBm -39.23 dBm	GHZ GHZ GHZ	3.49	1	N 1 N 1 N 1
Scale Type								
-		TADIS		- 1				

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30MHz~3GHz_Band66_5MHz_QPSK_1_0_HighCH132647-1777.5

			383.5		Type: Log-Pwr		M May 20, 2019	Frequency
Genter P	reg 1.515	000000 GHz PNO: Fest IFGsinLow	Trig: Free Ru #Atten: 30 dB	6	Libber Followit	TH	PHUM	
	Ref Offset		WAREIN SO OD		MH	r1 1.77	6 4 GHz	Auto Tune
10 dB/div	Ref 30.0	0 dBm		_		24,	21 dBm	
20.0	-		-	1	-			Center Free
10.0			-					1.515000000 GH
0.00			-	-	-	-		
-1D D	_		-		-	-	DEP-HORMON	Start Fre
-20.0	_			1				30.000000 MHz
-30.0	2. 22.2		a starting of		200		manunde	6
-40,8 рискра	New Yorks	at a feature at a start of the second	and a second s	North Armine				Stop Free 3.000000000 GH
-60.0								
			-	-				
Start 0.0	30 GHz	#VE	SW 1.0 MHz		Sweep 3	Stop 3	.000 GHz	
#Res BW	/ 1.0 MHz	#VE	SW 1.0 MHz	ELUID TOPA	Sweep 3	.600 ms (.000 GHz 1001 pts)	297.000000 MH
#Res BW	/ 1.0 MHz	#VE 1.776 4 GHz	3W 1.0 MHz 24.21 dBm	RUNATIONS		.600 ms (1001 pts)	297.000000 MH
#Res BW	/ 1.0 MHz		-	елистри		.600 ms (1001 pts)	297.000000 MH Auto Ma Freq Offse
#Res BW 10251200696 10 10 10 10 10 10 10 10 10 10	/ 1.0 MHz		-	SUNCTION.		.600 ms (1001 pts)	297.000000 MH Autz Ma Freq Offse 0 H
#Res BW (005 (00 KF k 2 3 4 5 6 7 8 9 10	/ 1.0 MHz		-	Stant from		.600 ms (1001 pts)	297.00000 MH Auto Mar Freq Offse 0 H Scale Type
#Res BW 1006 10065 1 1 N 2 3 4 5 6 7 8 9	/ 1.0 MHz		-	Standager		.600 ms (1001 pts)	Freq Offse 0 H

3GHz~10GHz_Band66_5MHz_QPSK_1_0_HighCH132647-1777.5

	03-30-51 PH May 20 2010			215		Situated Sal		Contrapact	A Carl
Frequency	THACE 1 2 3 2 5 5 THE RWWWWW	g Type: Log-Pwr	un	Trig Freel	GHZ	0000000		ter Fre	Cen
Auto Trees	and the second		10	#Atten: 30	IFGain(Low		_	-	_
reterre y	-36.29 dBm	M		_			Ref Offset Ref 30.0		10 di
Center Free					1		-		20.0
11.500000000 GH			_		-	-	-	-	10.0
Start Fre	DL1+1200-0Dm	-	-						10.00
Start Fre	Der Hotstann				-	_			20.0
5.000000000	Inter an allest	1.0.0	15.4				● ³	Can.	-30 Å
Stop Fre		واجتمعت المراسية المراسية	-warden	enter reversiter	Arter and along	All and a second	month of	stall P	40,0
20.000000000 GH								-	-50,D
CF Ste	Stop 20.000 GHz		_					t 3.000	
1.70000000 GH Auto Ma	33 ms (1001 pts)	Sweep 28	BUTO	V 1.0 MHz	#VB		.0 MHz	S BW 1	
-				-31.91 dBr -39.42 dBr	320 GHz	3.5	1	N I	1
Freq Offse			1	-36.29 dBr	333 GHz	6.2	1	N 1	4
	1				-				5 6 7
Scale Typ			-		-			-	8
Log Li	-		-				-		10
		STATUS		~					* []
		minited.							

30MHz~3GHz Band66 10MHz QPSK 1 0 LowCH132022-1715

228	102-15-27 PH May 20 2029					PT 54	194-20	THE OWNER AND THE OWNER	5.0
Frequency	THACE 1 2 3 # 5 6 THACE 1 2 3 # 5 6 THE REMAINING	Avg Type: Log-Pwr	in .	rig: Free Ru	Fast -	0000 GH	1.51500	ter Fre	Cen
Auto Tun	1 1.711 0 GHz 24.23 dBm	Mkr		Atten: 30 dE	IniLow	IFGi 8 dB	tef Offset 13		10 d
Center Fre 1.515000000 GH			1						.og 20.0 10.0
Start Free 30.000000 MH Stop Free 3.000000000 GH	DEP-HOTOGOM			_	-				0 00 10 0 20 0
	and an	يونيو ويوني ويونيو ويونيو ويونيو ويونيو ويونيوني ويونيوني ويونيوني ويونيوني ويونيوني ويونيون ويونيون ويوني ويون ويونيون ويونيون	and have	ulder and	an querte		Andrew		0.0 0.0 0.0
CF Ste 297.000000 MI	Stop 3.000 GHz 600 ms (1001 pts)	Sweep 3.	_	0 MHz	#VBW			t 0.030 s BW 1	tar
Auto Ma	FUNCTIONWALKE	THE REPORT OF THE REPORT OF	ê. Un a	24.23 dBm	SHz	1.711.0	00 	N	
Freq Offs 0 F									2345
Scale Typ									2345678910
Log Li		1	-	-	_		-		10
		status		_					1001

3GHz~10GHz_Band66_10MHz_QPSK_1_0_LowCH132022-1715

Frequency Auto Tun	15:54 PM May 20, 2029 19405 1 2 3 4 5 6 TUPE P N P N W W W	Log-Pwr	Avg Typ			SHZ	000000	11.500	er Fre
	3 5.145 GHz -35.98 dBm	Mk		e uu	By State 1. Co	-tsein (Luw	3.8 dB	ef Offset ef 30.00	
Center Fre 11.500000000 GH				-					
Start Fre 3.000000000 GH	per-tormane							▲3	
Stop Fre 20.00000000 GH	eleverne for the second	havadaynayaardin hadi	and a starting	-		freeton ton	A	where	Jan .
CF Ste 1.700000000 GH Auto Ma	op 20.000 GHz ms (1001 pts)				V 1.0 MHz	#VB		MHz	3.000 BW 1.
Freq Offse 0 H	ENVIRONMANCE	ELEM WERE		Bm	-32.56 dE -39.70 dE -35.98 dE	61 GHz 30 GHz 45 GHz	3.4		N 1 N 1
Scale Typ									

30MHz~3GHz_Band66_10MHz_QPSK_1_0_MidCH132322-1745

						n 34	territikany/an - Sea	Comment Spins
Frequency	1021943 PM May 20, 2019 1NADE 1, 2, 3 4 5 6 1,755 PM M M M M	Type: Log-Pwr	Ave	g: Free Run tten: 30 dB		DOOD GHz PNO: Fe	g 1.51500	nter Fr
Auto Tune	1 1.740 7 GHz 24.32 dBm	Mki				3 dB	Ref Offset 13 Ref 30.00 c	dB/div
Center Fred 1.515000000 GHz			1					a
Start Fre	per-docenter							ы Б П
Stop Free	ane given due an are	م ^ي و من	und have see			Philipping and a state	ومسور ومنهون او وم	0
CF Ste 297.00000 MH Auto Ma	Stop 3.000 GHz 500 ms (1001 pts)			MHz	7VBW 1.		.0 MHz	art 0.030 es BW
Freq Offse 0 H	FUNETEN VALUE	EUXIGENWER	SUNCTION	1.32 dBm	z	1,740 7 GH	1	N
Scale Typ							-	
	-	status		~				

3GHz~10GHz Band66 10MHz QPSK 1 0 MidCH132322-1745

R i	HI 300	000000 GHz	3193 (10)	Avg Type: Log-Py	103-20-03 PM May 20, 2029 TRACE 1 2 3 4 5 4	Frequency
enter Fi	eq 11.500	PNO: Fest IFGaint.ow	#Atten: 30 dB	ting the new of	DET P N R NN P	1.0.0
	Ref Offset 1	3.8 dB			Mkr3 5.235 GHz -37.61 dBm	Auto Tune
og dB/div	Ref 30.00	dBm	-		-37.61 dBm	
0.0	-		-			Center Free
1.00	-					
0.0	_				Det-toto dan	Start Fre
20.0			1.0		01	3.000000000 GH
100 034	And and painters	and the second states	window with the second	mannermanner	- and and more when and	
0.0						Stop Fre 20.00000000 GH
tart 3.00 Res BW		#V	BW 1.0 MHz	Sweep	Stop 20.000 GHz 28.33 ms (1001 pts)	CF Ste 1.70000000 GH
DE BOOKE AND				RUNNINGER FRUNKTER WE		Auto Ma
1 N 2 N 1	1	18.769 GHz 3.490 GHz	-31.72 dBm			Course and
4 N 1	1	5.235 GHz	-37.61 dBm			Freq Offse 0 H
4 5 6 7 8 9						Scale Typ
9					-	Log L
			~ *	'	1	

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Report No.: E2/2019/A0029 Page 411 of 594



30MHz~3GHz_Band66_10MHz_QPSK_1_0_HighCH132622-1775

Ave-get Sau	Street Area/are-			-				
		000000 GHz PN0: Fest	Trig: Free Run #Atten: 30 dB	Ave	Type: Log-Pwr	TRAC	H May 20, 20139 0€ 1, 2, 3 ≥ 5, 6 R⊂ R WWWWW 6T P. N // N M N	Frequency
1000	Ref Offset		mystel: 30 op	-	M	Auto Tune		
20.0	Ref 30.0	0 dBm		1		20.	54 dBm	Center Fre
0.00 -10.0							DL1-H2TOHODA	Start Free
-30 0 -40 0 60 0		algene seren werdensteren j		un brunes	helen - netwining	~~~~	lons Manner	Stop Free
Start 0.03		#VE	W 1.0 MHz		Sweep 3		.000 GHz (1001 pts)	CF Ste 297.000000 MH
	1	1.770 4 GHz	23.54 dBm	BUNNINGS:	FUNCTION WORK	FUNCT	BW WALLE	Auto Ma
4 5 6 7								0.0
8 9 10 11						_		Scale Type
(alla)					States	s		

3GHz~10GHz_Band66_10MHz_QPSK_1_0_HighCH132622-1775

				_			ina per Sul		1.Spinter	Cara-cell	- 6
Frequency	PH May 20, 2019 ACE 1, 2, 3 = 5, 6 VPC PL M M M M M	TRA	e: Log-Pwr	Avg	Trig: Free Ru	GHZ	000000 0	11.500	Free	nter	Cer
Auto Tun	325 GHz	1kr3 5.3	N	_	#Atten: 30 dB	FGainLow	18	of Offset 1		-	è
	.78 dBm	-38.						ef 30.00		dB/di	
Center Fre	-					-	-				20.0
11.500000000 GH	-		-					-	_		10.0
Start Fre	DL1-12/00-000										10.00
Start Fre 3.000000000 GH			1	_				_			-20.0
5,0000000000	A		1	-	22.4				3.	0 7	-90 (
Stop Fre		CK Constraints	angu array and	and the first of the second	man in the second	and and a set of the s	- and a state	The seal	- West	1.1	40,0
20.00000000 GH											-50(0
CF Ste 1,700000000 GH	0.000 GHz (1001 pts)		Sweep 2		1.0 MHz	#VB			.000 (
Auto Ma			NOTON WORK	RUNCTION			x		SACON .	-	-
Freq Offse					-32.60 dBm -39.23 dBm -38.78 dBm	37 GHz 50 GHz 25 GHz	3.5		1	N	1 2 3 4
						-				-	5 6 7
Scale Typ	-					-		-			8
Log Li		_						-		-	10
			TADUS								* 51 600
		-								-	

30MHz~3GHz_Band66_15MHz_QPSK_1_0_LowCH132047-1717.5

0.2.4	103-02117 PH Nov 20, 2019			212.1				art Hours and - 3	No-Old State	-
Frequency	THREE 1 2 3 # 5 8 THRE NWWWWW	wg Type: Log-Pwr				.515000000 GHz PNO: Fest			nter Fr	Ser
Auto Tune	r1 1.711 0 GHz 24.28 dBm	Mk		an: 30 dB	RAtte	Gein:Low	3.8 dB	Ref Offset	B/div	10 d
Center Free 1.515000000 GH			1	-	-					20.0
Start Fre 30.000000 MH	D(1-1-1-100-0D-n		1						-	0.00 10.0
	qr=1;3;0;8;19(⁴ ;=1 *)6; =1(5=1	y malaan da ah	unlus		and a state	-	****		-	30 0 40 0 60 0
CF Ste 297.00000 MI	Stop 3.000 GHz 600 ms (1001 pts)	Sweep 3.		AHZ	3W 1.0 M	#VB			rt 0.03	
Auto Ma	FUNCTIONWALLE	I REPORTED WORK	1000	8 dBm	24.2	0 GHz	1.711	1	N N	26
Freq Offs 0 F										2345
Scale Typ										23456789011
Log Li		1	-	_	-	-				11
		STATUS								(10)

3GHz~10GHz_Band66_15MHz_QPSK_1_0_LowCH132047-1717.5

Frequency	102-02:02 PM May 20, 2019 TRADE 1 2 3 4 5 6 TVPE P M / N N N	vg Type: Log-Pwr	-	Trig: Free Ro	GHZ	000000 0	11.500	r Fre	ente
Auto Tuni	kr3 5.153 GHz -35.87 dBm	M		10-11-10-01	-tsten Lanw	3.8 dB	ef Offset 1 ef 30.00) dB/d
Center Free 11.500000000 GH					-				0.0
Start Fre	047-4200 (Dr.				-			_	00
Stop Fre	manarthermetermetermetermetermetermetermeter	nor-thomasurrowthat	an a	an schles present	an Marina	Mannako	- Linin	3m	0 0. 0 0. 14
CF Ste 1.70000000 GH	Stop 20.000 GHz	Sweep 28		V 1.0 MHz	#VBA			3.000 BW 1.	
Auto Ma	FUNCTER WALKE	FUNCTERWORK	RUNDING	-31.14 dBm	98 GHz	15.00			1 N
			-	-39.59 dBm -35.87 dBm	35 GHz	3.4	t t		2 N 3 N
				Carl Shows			-		
Freq Offse 0 H Scale Type									5 6 7 8 9

30MHz~3GHz_Band66_15MHz_QPSK_1_0_MidCH132322-1745

Swangert Spi	atteart Analyzer - So						
Senter F	reg 1.5150	00000 GHz PNO: Fest	Trig: Free Run #Atten: 30 dB		vg Type: Log-Pwr	102:04:54 PM Nov 20, 2019 1NADE 1 2 3 8 5 6 TURE N WWW DET P N W WW	Frequency
10 dB/div	Ref Offset 1 Ref 30.00	IFGein:Low 3.8 dB dBm	#Atten: 30 0E	~ 1	Mkr	1 1.737 8 GHz 24.34 dBm	Auto Tune
20.0 10.0	-			1			Center Freq 1.515000000 GHz
0.00						per-domande	Start Free 30.000000 MH Stop Free 3.000000000 GH
10 0 40 0 50 0				wa beneri	18 yer anti dar 184 kale 18 dan dar	nnaatter 14 anna 15 Anna 16 Ann	
tart 0.03 Res BW	1.0 MHz	#VB	W 1.0 MHz			Stop 3.000 GHz 100 ms (1001 pts)	CF Step 297.000000 MH Auto Ma
2 3 4	1	1.737 8 GHz	24.34 dBm	RUNDTRON		EWERENWAUE	Freq Offse 0 H
5 6 7 8 9							Scale Type
10) 211 1	1 1		~		STATUS		

3GHz~10GHz Band66 15MHz QPSK 1 0 MidCH132322-1745

222	102-05-00 PM May 20 2020		Les l	31923			theart Analyzer - 3	Septembre Spin
Frequency	TRACE 1 2 3 # 5 # TIRE NWWWW	vg Type: Log-Pwr			GHZ	0000000	eg 11.500	
Auto Tun	kr3 5.235 GHz	M	0	#Atten: 30 dB	IFGein/Low	9	Ref Offset 1	
	-36.75 dBm						Ref 30.00	0 dB/div
Center Fre					-	-	-	20.0
StartFre	DL7-F2700 dDm							0.0
3.000000000 GH		S. mathematica a	autor of	a				30.0
Stop Fre 20.000000000 GH								40,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
CF Ste 1.70000000 GH	Stop 20.000 GHz 3.33 ms (1001 pts)	Sweep 28		V 1.0 MHz	#VB			tart 3.00 Res BW
Auto Ma	FUNCTION WALVE	FUNCTIONWEITH	8000	-32.17 dBm	337 GHz	×		1 N
Freq Offse 0 H				-39.38 dBm -36.75 dBm	490 GHz 235 GHz	3.4	İ	2 N 3 N
Scale Typ								4 5 6 7 8 9 10
Log		-	-	~	- 1		11	11
		Status						10

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Report No.: E2/2019/A0029 Page 412 of 594



30MHz~3GHz_Band66_15MHz_QPSK_1_0_HighCH132597-1772.5

R i	reg 1.5150		Trig: Free Ru #Atten: 30 dB	Avp	Type: Log-Pwr	CE00.42 PH Nov 20, 2019 TRADE 1 2 3 4 5 6 TYPE H WWWWW DET P N R N N R	Frequency Auto Tune
10 dB/div	Ref Offset 1 Ref 30.00				MK	r1 1.767 5 GHz 24.17 dBm	Contract of the second
20.0 10.0							Center Fre 1.515000000 GH
000 000 000						DLT-Honord M	Start Fre 30.000000 MH
-30.0 -40.0 50.0 -60.0	44.000 burl 1440		n, en,	en Aren	-1.0°	arrad an arraid traryarrailletik	Stop Fre 3.00000000 GH
Start 0.03 #Res BW		#VB	W 1.0 MHz		Sweep 3	Stop 3.000 GHz .600 ms (1001 pts)	CF Ste 297.000000 Mi-
T N 2 3	1	1,767.5 GHz	24.17 dBm	HUNCTION	HUNCTER WORK	FUNCTION WALLE	Freq Offse
4 5 6							0.0
7 8 9 10							Scale Type
60) 60)			~		=teins		

3GHz~10GHz_Band66_15MHz_QPSK_1_0_HighCH132597-1772.5

								anti 54		Spattours	n-ones	- 5w
Frequency	10 May 20, 20139 DE 1, 2, 3 = 5 = PE PLANANANA ET PLANANANANANANANANANANANANANANANANANANAN	TRA	Log-Pwr	Avg Ty	Run	1	Hz	000000		Freq	ter l	len
Auto Tun	B18 GHZ		N			#Atten: 3	NO: Pest GalniLow	IÊ	f Offset 1			-
	43 dBm	-39.		-					f 30.00		B/div	
Center Fre	1			-	_		-		-	-		20.0
11.500000000 GH	-				_				_	-		10.0
	T41-4270-004	1911	11	1					-			10.00
Start Fre 3 000000000 GH	12145101214		-				-			_		-0.0
5.0000000000	and appendix	Q^1	line and		-	-	1.00		13	2	1	30.0
Stop Fre	a spear to get	ing the internet	submittion th	AL UNGOLDAN	and many and the	a fan a shada a a	Altertal	- strange	an apriliant	Angener	-nip	40,0
20.000000000 GH					_							50(D 60,0
CF Ste	0.000 GHz		Dution 2		-	1.0 MHz	-			000 G		
Auto Ma		700710	sweep z	1007100 82	807	1.0 10112	#VBU			ACRES		
Freq Offse					m	-32.72 dE -40.34 dE -39.43 dE	4 GHz 15 GHz 18 GHz	3.54		1 1	NNN	1 2
0 H				-	im	-39,43 dE	8 GHZ	9.31	-	1.1	N	4 5
Scale Typ												67
				-			-				-	8
Log Li	-			-	-						_	10

30MHz~3GHz Band66 20MHz QPSK 1 0 LowCH132072-1720

Frequency	102-33 43 PM Nov 20, 2039		100	2 2192			ti - Secondaria - Se	CHICS HARDS	1
Auto Tune		Avg Type: Log-Pwr	n	Trig: Free Ru	VO: Fest	00000 GH		er Fre	Sen
	1 1.711 0 GHz 21.84 dBm	Mk		#Atten: 30 dt	SeinLow	3.8 dB	ef Offset 13		10 di
			•1				er 30.00 (20.0
Start Fre	pts -formenn								10.0
30.000000 MH Stop Fre	Annangeneristation	n the only on the stand of the stand	alu	and the second second	a bala paga sementira			mathematica	30 0 40,0
3.000000000 GH									50,0 60,0
CF Ste 297.000000 Mi Auto Ma	Stop 3.000 GHz 600 ms (1001 pts)			.0 MHz	#VBW	_	MHz	0.030 BW 1.	Re
	FUNCTION WALVE	NELVICINE WEITH	RUNC	21,84 dBm	0 GHz	1.711	1	N	
Freq Offse 0 H									23454
Scale Typ]						-		234567891011
Log Li		-	-	-	-		1	1	11
		STATUS							1001

3GHz~10GHz Band66 20MHz QPSK 1 0 LowCH132072-1720

228					14 5 8		nt Spatte	- Sec
Frequency	102-13158 PM May 20, 2019 TRADE 1, 2, 3 + 5 + T (PE N N N N N	Avg Type: Log-Pwr	Free Run	Tri	00000 GHz	q 11.500	r Fre	lent
Auto Tun	kr3 5.160 GHz	M	en: 30 dB		IFGain(Low	Ref Offset 13	F	-
	-36.19 dBm				IBm	Ref 30.00	siv F	O dB
Center Fre						-		20.0
Start Fre	pti-tomene							0.00
3.000000000 GH	-0			1		43	.2	20.0 30.0
Stop Fre 20.00000000 GR	and a second	y Tetrikanský hydra Akale	an a	****	and a second second second	ed to the same	Junto	40,0, 8 50,0 -
CF Ste 1.70000000 GR	Stop 20.000 GHz	Sweep 28	AHz	BW 1.0	#VB	GHz 0 MHz	3.000 BW 1.	
Auto Mi	FUNCTION MADE	IDE TRUNCTENWERH	1	-		100	NO NO.	100
Freq Offs 0 F			14 dBm 17 dBm 19 dBm	-39	19,746 GHz 3,440 GHz 5,160 GHz	1		1 1 1
Scale Typ								6 7 8 9
Log L				_			-	10
-		Tabls				-		* 51 000

30MHz~3GHz_Band66_20MHz_QPSK_1_0_MidCH132322-1745

								In CASE OF A DESCRIPTION OF A DESCRIPTIO	- 54
Auto Tune	102-49:30 PH May 20, 2019 TRADE 1, 2, 3 = 5 & TUPE H WWWWW DET P. N N N N N	Type: Log-Pwr		rig: Free Run Atten: 30 dB	Z AD: Fest	00000 GH	g 1.5150	ter Fre	Jen
	1 1.737 8 GHz 23.24 dBm	Mki		and the second	Senit and	3.8 dB	Ref Offset 1 Ref 30.00	B/div	
Center Free 1.51500000 GH			*,				-		og 20.0
Start Free 30.000000 MH	put-totto-dan		1			-	-	-	100 0.0
Stop Fre 3.000000000 GH	w.m.anelw.lab.da.ak	nanyaan peri anghipin ku	Alam	lever the second second	مىلىرىر <i>ل</i> ېلىرىر م		munun	-	
CF Ste 297.000000 MH Auto Ma	Stop 3.000 GHz 500 ms (1001 pts)) MHz	#VBW		.0 MHz	rt 0.030 Is BW 1	Re
Freq Offse 0 H	EWEIGWWDE	EDZÉTEN WETRI	RUNCTION	3.24 dBm	B GHZ	1,737		N	234
Scale Typ									56789011
-		Status		-					

3GHz~10GHz Band66 20MHz QPSK 1 0 MidCH132322-1745

Etemieneu	PH Nov 20 2029	102 541111							Argenyter - Sin	analization of the	10-011
Frequency		TRA	Log-Pwr	Avg Typ	Run	Trig: Free	O: Fast	000000 G	11.5000	Freq	nter
Auto Tun	235 GHz		M	_	dB	#Atten: 3	SeiniLow				_
	.57 dBm				_				f Offset 13 f 30.00		B/div
Center Fre	-			-	_				_	-	-
11.500000000 GH		-		-	-			-	-	-	
	De1-1270-004	···· .	1	1			1 1		-		
Start Fre 3.000000000 GH	and stated and				_						
	- and sugar			distant		an fiel		and	1 ³	2	1
Stop Fre		- Ale 1 mag			C.C.C. Marken	are the product of the	all of the last	and a sugar	- Jacob		m
20.00000000 GH											
CF Ste	0.000 GHz				_	-				00 G	
1.70000000 GH Auto Ma	(1001 pts)				_	/ 1.0 MHz	#VBV		7.0.7.0	V 1.0	-
Lands	TEW WALKE	FUNCT	CTEN WEITH	TION FU	m	-32.48 dE	0 GHz	3.86			N
Freq Offse 0 H					lm lm	-40.28 dE -36.57 dE	0 GHz 5 GHz	3.49		11	NN
Scale Typ			_		-					-	
Log L			_				-		-	-	-
			TADIS			~					-

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Report No.: E2/2019/A0029 Page 413 of 594



30MHz~3GHz_Band66_20MHz_QPSK_1_0_HighCH132572-1770

Server Can	- myseyter - S		2 212 2	-		102.56:07 FM May 20. 2019	
Center F		00000 GHz	1		g Type: Log-Pwr	THACE 1 2 3 # 5 4	Frequency
10 dB/div	Ref Offset 1 Ref 30.00		#Atten: 30 dB	2.5	Mk	A de Miles	
20.0 10.0				1			Center Free 1 51500000 GH
10.00 -10.0 -20.0	-					DLT-HORD (JM	Start Free 30.000000 MH
-50.0 -40.0 xxxx+3+0 -50.0	and a particular			-linea	hand of reason	anternet and the superburgers of	Stop Free 3.000000000 GH
Start 0.03 #Res BW		#VB	W 1.0 MHz		Sweep 3	Stop 3.000 GHz .600 ms (1001 pts)	CF Ste 297.000000 Mi Auto Ma
100512005140 10051005140 2 3 4	1	1.761 5 GHz	24.37 dBm	20001000	E HUNETEN WEITH	FUNCTION WALKE	Freq Offse
5 6 7 8 9							Scale Typ
	11		~		STATUS		Log Lin

3GHz~10GHz_Band66_20MHz_QPSK_1_0_HighCH132572-1770

	and the second of				and see			in the second		Spans	- ant	- 54
Frequency	06 1 2 3 2 5 6 PE P N N N N N	THE	e: Log-Pwr	Avg	Free Run	- 1	GHZ PNO: Fest	0000000	11.500	Fred	ter	Cen
Auto Tune	310 GHz	Akr3 5.	N		n: 30 dB	#Atten:	IFGein:Low		of Offset		-	-
	74 dBm	-37			-	_			ef 30.00		B/div	
Center Fre					-	-		-	-	-	-	20.0
11.500000000 GH			1	11	-	-						10.0
1 2.640	DE1-12/09-00-											10.00
Start Fre 3.00000000 GH			-		-	-			1.1	.1	-	-20.0
		-	Artornali	Interiore		****			3-	how	10	-30 ii
Stop Fre					100 100 100	ALCONT INC. THE	Prints	ALC PROPERTY		-	Sint L	-40,0
20.000000000 GH			1									-EE 0
CF Ste	0.000 GHz						-			000		
1.70000000 GH Auto Ma	(1001 pts)		Sweep 2		Hz	W 1.0 MH	#VB		MHz	W 1.0	-	-
-		_			dBm	-32.90 c	782 GHz	3.7		1	NN	1
Freq Offs	_				4 dBm	-37.74 \$	110 GHz	6.3		1	N	4
	1				-						-	5 6 7
Scale Typ					-		-		-			8
Log L			_		-		-				-	9 10 11
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		s	SALES								_	ERC

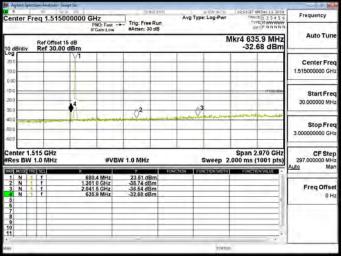
30MHz~3GHz Band71 5MHz QPSK 1 0 Low CH133147-665.5

Agilent Spectrum Absilytes - Swept SA				1. mile		10 P P
Center Freq 1.51500000	PNO: Fast -+-	Trig: Free Run		Log-Pwr	TNACE 12 2 3 4 5 6 TVPE MWWWW DET P NNNN	Frequency
Ref Offset 15 dB	IFGain:Low	#Atten: 30 dB	_	N	lkr4 624.0 MHz -32.41 dBm	Auto Tun
						Center Fre 1.515000000 GH
0 00 10 0 20 0						Start Fre 30.000000 MH
30.0 40.0 50.0		St.	Q ³	mint	anim rathering	Stop Fre 3.000000000 GH
Center 1.515 GHz Res BW 1.0 MHz	#VBW				Span 2.970 GHz 000 ms (1001 pts)	CF Ste 297.000000 Mi Auto Mi
3 N 1 1 4 N 7 T	665.6 MHz .333 0 GHz .999 5 GHz 624.0 MHz	23.25 dBm -38.26 dBm -38.44 dBm -32.41 dBm	FUNCTION FU			Freq Offs 0 F
6 7 8 9 10 11						
* Linea				John U		

3GHz~10GHz_Band71_5MHz_QPSK_1_0_Low CH133147-665.5

		A DAY AUTO					nallyzen San	-Sum Ab	Pert Sp	E Ag
Frequency	0152094MDec112019 TRACE 123456 TYPE MWWWW	Type: Log-Pwr	A	Trig: Free Run		000000	11.500	req	ter	en
Auto Tune	r1 19.235 GHz	M	_	#Atten: 30 dB	FGain:Low	ii 5 dB	Offset 1			
	-30.07 dBm		-	-	1-1	dBm	f 30.00	Ref	B/div	0 de
Center Fre 11.50000000 GH						-		-	_	20.0
Start Fre	110-414									00
3.000000000 GH	1-	-						-		20 0 30 0
Stop Fre 20.000000000 GH	1 1 1 1 1 1		-				100	-		10,0 10,0
CF Ste 1.70000000 GH Auto Ma	Span 17.00 GHz 8.33 ms (1001 pts)	Sweep 28		1.0 MHz	#VBW			1.500 1.0 M		
CIERCE INIT	FORMETORYMAULT -	FUNCTION WOTH	FUNCTION	-30.07 dBm	35 GHz	19.23				1
Freq Offs 0 F			_					-		2345
-							-			56789
					1		-	1		10
	6	1941UB								10

30MHz~3GHz_Band71_5MHz_QPSK_1_0_Mid CH133297-680.5



3GHz~10GHz_Band71_5MHz_QPSK_1_0_Mid CH133297-680.5

Agilest.Spe	Cum Ahalyze	AZ JapanZ - 1		~ ~ ~ ~ ~					10 × 3	
Center F	req 11.	500000000	GHZ	Trip: Free Run	Avg Typ	e Log-Pwr	TRACE	Dec 11.2019	Frequency	
	Ref Off	set 15 dB	IFGain:Low	#Atten: 30 dB	_	M	kr1 19.20	1	Auto Tune Center Freq 11.50000000 GHz	
10 dB/div 20 0 10.0	Ref 30	0.00 dBm					-50.1			
0 00 -10 0 -20 0		-							Start Freq 3.00000000 GHz	
40,0 -50,0 -60,0	- and the second	فلسابين وحداية	and the second	9, 2001 12,9,199 129 129 129 129 129 129 129 129 129		•	and the second second		Stop Free 20.00000000 GHz	
Center 1 #Res BW	1.0 MH		#VBV	V 1.0 MHz	PUNCTION IN	Sweep 2	8.33 ms (1		CF Step 1.700000000 GH Auto Mar	
1 N 2 3 4 5			201 GHz	-30.10 dBm			TOSCITO		Freq Offset 0 Hz	
6 7 8 9 10 11										
Maa						29ATU	i i			

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Report No.: E2/2019/A0029 Page 414 of 594



30MHz~3GHz_Band71_5MHz_QPSK_1_0_High CH133447-695.5

	AMDec 11. 2019	02:04:05	A DAY AUTO		STMS IN		_	DG I	yzes Sm		1	8
Frequency	T 123456	TRA	Log-Pwr	Avg T)	: Free Run		PNO: Fast	00000 G	5150	eq 1.	er Fr	nt
Auto Tur	E.A. Strange				en: 30 dB	1	PNO: Fast IFGain:Low			-		
Auto Tu	0.7 MHz 27 dBm		N					dBm	ffset 1 30.00	Ref C	div	dB
Center Fre	1000	_					-	1	_			
1.515000000 G		-	-	-	-	-	-			-	-	10
1				-	-	-	-		_	-	-	00
Start Fre			-	-	-	-	-		_	-	-	0
30.000000 Mi	-		3				-	4	-		-	0
1	- Elin	an in the second			and the second		-	ML				0
Stop Fre 3.00000000 G			_	-			-		_	-	_	-
3.00000000 G	-			-	-	-	-	-	_	-	_	(Ú
CF Ste 297.000000 M	2.970 GHz (1001 pts)		Sweep 2.		VIHz	BW	#VE	-		15 G		
Auto Ma	ONWAUE -	TUNCT	HIGHWOIH	CINN I				x			00 10	
Freq Offs				-	29 dBm 05 dBm 73 dBm 27 dBm	-	98.3 MHz 91.0 GHz 96.5 GHz 50.7 MHz	1.39		1	1	l
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			วิวริสานม									

3GHz~10GHz_Band71_5MHz_QPSK_1_0_High CH133447-695.5

Agilent Spectrum Analyzes - Swept SA			
Center Freq 11.5000000	DO GHZ PNC: Fast Trig: Free Run	Avg Type: Log-Pwr TRACE 1 2 3 4 5 6 TYPE MWWWWW	Frequency
1	IFGain:Low #Atten: 30 dB	Mkr1 19.201 GHz	A
10 dB/div Ref 30.00 dBm		-29.675 dBm	
20.0			Center Fre
0.00			11.50000000 GH
-10.0		110 00	Start Fre
-30.0			3.000000000 GH
-50.0			Stop Fre
-60,0			20.000000000 GH
Center 11.500 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Span 17.00 GHz Sweep 28.33 ms (1001 pts)	
	19.201 GHz -29.675 dBm	CHICK IN TURNETON WORK	Auto Ma
2 3 4 5			Freq Offse 0 H
6 7 8			-
9 10 11			
	· ~ ·	1 1 N	

30MHz~3GHz_Band71_10MHz_QPSK_1_0_Low CH133172-668

Agilest Spectrum Abaly	and the second s						10 P
enter Freg 1.	515000000 GHz	31.062.200	Avg Type: L	.og-Pwr	01:59:49 4MD4	23456	Frequency
	PNO: Fast	#Atten: 30 dB		1	DET P	NRNN	1.75.0
0 dB/div Ref 3	Tset 15 dB	1.1.1		N	1kr4 624.0 -32.26		Auto Tu
log	1				· · · · · · · · · · · · · · · · · · ·		C. LANS
20.0							Center Fr
10.0							1.515000000 G
00							
00				-		THE OW	Start Fr
0.0	4						30.000000 M
89.0		02	03		minite in	in the	
0.0	Contraction of the second second	and the second					Stop Fr
50.0							3.000000000 G
50,0				-		- 1	Martinear
enter 1.515 GH					Span 2.97	0 GHz	CF St
Res BW 1.0 MH	iz #VBN	V 1.0 MHz	SV	veep 2	.000 ms (100		297.000000 N Auto N
STRAIN SUR LOD	x	Y III	FUNCTION FUNCT	TON WIDTH	FUNCTIONW	400 ·	Auto N
1 N 1 1 2 N 1 1	665.6 MHz 1.336 0 GHz	-37.78 dBm				- 11	
3 N 1 1 4 N 7 F	2.004 0 GHz 624.0 MHz	-38.88 dBm -32.26 dBm				_	Freq Offe
5	044.0.0014	-V2.20 00iii					0
6						-10	
8						_	
10				_		- 6	
11			-				
				TRATLE			

3GHz~10GHz_Band71_10MHz_QPSK_1_0_Low CH133172-668

Aglet.Spe	Chum Abalyzta	Sweet St.				Children and	-	10 × 2
Center F	req 11.50	00000000 GHz PNC Fa	Trip: Free Ru	Avg Ty	pe: Log-Pwr	TRACE 1 2 TRACE 1 2 TYPE MY Det P 1	13456	Frequency
10 dB/div	Ref Offse Ref 30.0	IFGain1	ow #Atten: 30 dB		M	kr1 19.116 -30.62	GHZ	Auto Tune
20 0 10.0								Center Free 11.500000000 GH
0 00 10 0 20 0							1-	Start Free 3.000000000 GH
40,0 50,0 60,0	and many	aling and a second second second		-				Stop Fre 20.000000000 GH
	1.500 GHz 1.0 MHz	#	VBW 1.0 MHz	FUNCTION		Span 17.00 8.33 ms (100	1 pts)	CF Ste 1.700000000 GH Auto Ma
1 N 2 3 4 5		19.116 GH	z _30.62 dBm					Freq Offse 0 H
6 7 8 9 10 11								
40					29410		· .	

30MHz~3GHz_Band71_10MHz_QPSK_1_0_Mid CH133297-680.5

	and the second					54	ilyzen Samart	Churn Ala	de l Sp	
Frequency	0158-994MDec112019 TRACE 123456 TYPE MWWWW Der P NRNRN	Type: Log-Pwr	A	Trig: Free Run	IZ NO: Fast ↔-	0000 GH	.51500	req 1	ter F	Cen
Auto Tune	kr4 632.9 MHz -31.72 dBm	м		WALLEN, OU UN	Gain Low	dB	Offset 15 30.00 d	Ref	B/div	
Center Freq 1.515000000 GHz						*1	_			20 0 10.0
Start Freq 30.000000 MHz	- 1100 effer	.3	+			4		+		0 00 -10 0 -20 0 -30 0
Stop Freq 3.000000000 GHz		. Lange	يرجيني	Q ²		ll.			-	-40,0 -50,0 -50,0
CF Step 297.000000 MHz	Span 2.970 GHz 00 ms (1001 pts)	Sweep 2.		I.0 MHz	#VBW			515 G 1.0 N		Cen
Auto Man Freq Offset 0 Hz	FUNCTIONVALUE	PUNCTION/MIDTH	NACTION	27.09 dBm -39.36 dBm -37.06 dBm -31.72 dBm	5 MHz 0 GHz 5 GHz 9 MHz	1.361		f f f		1 2 3 4
										5 6 7 8 9 10 11
		3/9A1U0						_	_	680

3GHz~10GHz_Band71_10MHz_QPSK_1_0_Mid CH133297-680.5

							alyzer Sm			
Frequency	01:55:17 4M Dec 11, 2019 TRACE 1 2 3 4 5 6	vg Type: Log-Pwr	31 862 3201	-1	0 GHz	000000	1.500	eq 1	ter Fr	Cen
1.75.73.52	DET P NNNN		Free Run n: 30 dB		PNO: Fast IFGain:Low				-	1.11
Auto Tune	r1 19.065 GHz -30.02 dBm	Mk				15 dB 0 dBm	Offset 1 30.00	Ref	s/div	10 di
Center Freq 11.50000000 GHz							_	-		20 0 10.0
Start Freq 3.00000000 GHz				+		-		+		0 00 -10 0 -20 0
Stop Freq 20.000000000 GHz			111 - 12 - 12 - 12 - 12 - 12 - 12 - 12	war		- the state of the	الإستان المواكل		- Aug	-30.0 -40.0 -50.0 -60.0
CF Step 1.700000000 GHz Auto Man	Span 17.00 GHz 3.33 ms (1001 pts)	Sweep 28	IHz	BW 1	#VE	-			ter 11 s BW	Cen
	FUNCTION WALVE	TUNCTION WOTH	2 dBm		9.065 GHz	.8			N T	-
Freq Offset 0 Hz										2345
			_		_	_				6 7 8 9 10
		TATLE	_	-	1				-	11 •

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Report No.: E2/2019/A0029 Page 415 of 594



30MHz~3GHz_Band71_10MHz_QPSK_1_0_High CH133422-693

Agiles Espection Analyzer See	pesa .	31867200	a the entro	82:00:17 MADec 11, 2019	
Center Freq 1.51500	00000 GHz	Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNN	Frequency
Ref Offset 15		#Atten: 30 dB	N	Akr4 650.7 MHz -31.13 dBm	Auto Tuni
20.0	1				Center Fre 1.515000000 GH
0 00 -10 0 -20 0 	•				Start Fre 30.000000 MH
40.0 50.0 63.0		Q ²		and a second second	Stop Fre 3.000000000 GH
Center 1.515 GHz #Res BW 1.0 MHz	#VB\	V 1.0 MHz	Sweep 2	Span 2.970 GHz .000 ms (1001 pts)	CF Ste 297.000000 MH Auto Ma
1 N T T 2 N T T 3 N T T 4 N T T 5 6	689.3 MHz 1.386 0 GHz 2.079 0 GHz 650.7 MHz	27.55 dBm -38.86 dBm -36.98 dBm -31.13 dBm	PERCIPATION W20111	TOST-HORVAGU	Freq Offse 0 H
7 8 9 10 11					
• Maa			İstatu		

3GHz~10GHz_Band71_10MHz_QPSK_1_0_High CH133422-693

Agilent Spectrum Analyzer - Swept SA			10 P
Center Freq 11.5000000		Avg Type: Log-Pwr TRACE 1 2 3	456 Frequency
Ref Offset 15 dB	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Mkr1 19.456 G	Hz Auto Tun
10 dB/div Ref 30.00 dBm		-29.75 dl	Bm
20.0			Center Fre 11.500000000 GH
0 00 -10 0 -20 0		are.	Start Fre
300	1	- manufament	3.0000000 GH
-50.0			20.00000000 GH
Center 11.500 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Span 17.00 (Sweep 28.33 ms (1001	pts) 1.70000000 G
NEW MORE FILE EAST	19.456 GHz -29.75 dBm	ACTION TUNCTION WOTH TUNCTION WAVE	- Auto Mi
2 3 4 5	10,400 Sinz -20,10 UBM		Freq Offsi 0 F
6 7 8 9			
10			30
1		TTATLE	-

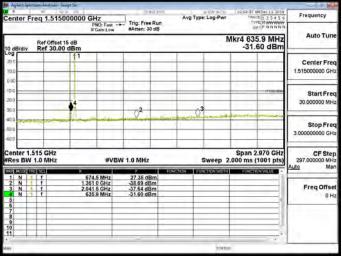
30MHz~3GHz_Band71_15MHz_QPSK_1_0_Low CH133197-670.5

Agilent Spectrum Analyzes	and the second s						10 21
enter Freq 1.51	5000000 GHz	Trig: Free Run	Avg Type:	Log-Pwr	7.000	23456	Frequency
	PNO: Fast IFGain:Low	#Atten: 30 dB			per	PNNNNN	Auto Tur
0 dB/div Ref 30	et 15 dB 00 dBm			N	1kr4 629.1 -31.74		Huite I th
00	1						1.
20.0							Center Fr
10.0							1.515000000 G
200							
00		+ +		-			Start Fr
20.0	4			-			30.000000 M
30.0		0 ²	3		damaine	name in	
0.0	Same	and Marit Ment	- Charles and a				Stop Fr
50.0							3.000000000 G
50,0	_		_				Morneau
enter 1.515 GHz		1 1		-	Span 2.9	70 GHz	CF St
Res BW 1.0 MHz	#VE	BW 1.0 MHz	5	weep 2	.000 ms (10		297.000000 N
NOT MODEL THE SEE	x	Y THE R	FUNCTION OF FUNC	TION WOTH	FUNCTION	- 10.00	Auto N
1 N 1 1 2 N 1 1	665.6 MHz 1.341 0 GHz	27.09 dBm -40.48 dBm					1. CO. 18
3 N 1 1	2.011 5 GHz 629.9 MHz	-36.63 dBm -31.74 dBm				_	Freq Offs
5	029.9 MITZ	-\$1.74 UDM					0
6							
8							
10						- 2	

3GHz~10GHz_Band71_15MHz_QPSK_1_0_Low CH133197-670.5

	-		_		_		42.54	alyzes See	Sum Ala	Pert Spe	Age Ag
Frequency	TRACE 1 23455 TRACE 1 23455 TYPE MUNICIPALITY	Type: Log-Pwr	n	Trig: Free Run		GHz PNC: Fas	000000	1.500	req 1	ter F	Cen
Auto Tune	-19 -10-1-9			#Atten: 30 dB	014	IFGain:Lo	-	-	-		_
- Contraction	r1 18.980 GHz -30.30 dBm	MK					5 dB dBm	Offset 1	Ref	B/div	
Center Free			-		_	-	1			-	20 0
11.50000000 GH			-		-	-	-		+	-	10.0
-	1100					1					-10.0
Start Fred 3.000000000 GH:	A1-				-		-	_	-	_	20.0
	and the second		15-10	in hereit		-	-	thingston	w.	to the	-30.0
Stop Free 20.000000000 GHz			-	_	-	-	1		-	_	-50.0
20.0000000000						-	-			-	-60,0
CF Step 1.70000000 GHz	Span 17.00 GHz .33 ms (1001 pts)	Sweep 28		1.0 MHz	VBW	#1				ter 1 s BW	
Auto Mar	FUNCTION WALVE	TUNCTION WIDTH	DUNG	-30,30 dBm		980 GHz				N	
Freq Offse			_	-30.30 0pm		JOU GHZ	- 10	1	11	N	2
0 Ha							-	-			4
	_		-		+	_		_			2 3 4 5 6 7 8 9 10
			-		-			-		-	9 10
				~	1	_			1.1	-	11
		394100									Mag

30MHz~3GHz_Band71_15MHz_QPSK_1_0_Mid CH133297-680.5



3GHz~10GHz_Band71_15MHz_QPSK_1_0_Mid CH133297-680.5

	and the second second						ullyzes Succ			
Frequency	10156001 04Dec 11 2019 TRACE 1 2 3 4 5 5 TIPE MWWWW DCT P NNNNN	a the arts		Trig: Free Run		00000 G	11.5000	req1	ter F	Cen
Auto Tune			_	#Atten: 30 dB	GainLow		-	-		_
	r1 19.405 GHz -30.30 dBm	MK				dB	Offset 15 30.00	Ref	B/div	10 d
Center Freq 11.50000000 GHz										200 10.0
Start Freq	-Tim day									0 00 -10 0
3.000000000 GHz	•1-		-				The A Print	-		-20.0 -30.0
Stop Freq 20.000000000 GHz									-	-40,0 -50,0 -60,0
CF Step 1.70000000 GHz	Span 17.00 GHz 3.33 ms (1001 pts)	Sweep 28		1.0 MHz	#VBW				ter 1 s BW	Cen
Auto Man	TOMOTION WALLE	TUNCTION MOTION	DUNC	-30,30 dBm	05 GHz	19.40			N	
Freq Offset 0 Hz									-	2 3 4 5
							1			6 7 8 9 10
				~ .				1		10
	0	294100								Mag

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30MHz~3GHz_Band71_15MHz_QPSK_1_0_High CH133397-690.5

Agilest.Specture	m Ahalyzn - Sa			31452.000		A LINE ALL D	02:06:37 AMD		
Center Fre	q 1.5150	1	NO: Fast -	Trig: Free Run	Avg Type	Log-Pwr	TRACELY	23456	Frequency
10 dB/div	Ref Offset 1 Ref 30.00	15 dB	GainLow	#Atten: 30 dB	_	M	1kr4 650.7 -32.44	MHz	Auto Tun
20.0 10.0	Kei 30.00	*1							Center Fre 1.515000000 GH
0 00 -10 0 -20 0 -30 0		4						-1100-634	Start Fre 30.000000 MH
-40.0 -50.0 -60.0		1	4 .	in O ² - 1	0	•	and the second		Stop Fre 3.000000000 GH
Center 1.51 #Res BW 1.	0 MHz		#VB\	N 1.0 MHz	TURCTION TO		Span 2.97 .000 ms (10	01 pts)	CF Ste 297.000000 Mi Auto Mi
1 N 1 2 N 1 3 N 1 4 N 7 5		686 1.381 2.071	0 GHz 6 GHz 7 MHz	27.24 dBm -39.99 dBm -38.49 dBm -32.44 dBm			TONETICKY		Freq Offs 0 F
7 8 9 10 11									
le C ¹						319410	Ú.		

3GHz~10GHz_Band71_15MHz_QPSK_1_0_High CH133397-690.5

Agilent Spectrum Ahalyzer - Swept SA			101 91 23
Center Freq 11.5000000	0 GHz Diff Error anto	Avg Type: Log-Pwr TRACE 1 2 3 4 5 6	Frequency
1.00 C	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Mkr1 18,793 GHz	Auto Tun
10 dB/div Ref 30.00 dBm		-30.26 dBm	-
20.0			Center Fre
10.0			11.50000000 GP
-10.0		THE ON	Start Fre
-30.0			3.00000000 GH
-40.0			Stop Fre
-60,0			20.00000000 GH
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9 10 11			

30MHz~3GHz_Band71_20MHz_QPSK_1_0_Low CH133222-673

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enter Freg 1.	515000000 GHz	31463.340	Avg Type: Log-Pwr	TRACE 1 23456	Frequency
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3GHz~10GHz_Band71_20MHz_QPSK_1_0_Low CH133222-673

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10 dB/div	Ref 30.00	dBm			-30.71 dBm	
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30MHz~3GHz_Band71_20MHz_QPSK_1_0_Mid CH133297-680.7

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3GHz~10GHz_Band71_20MHz_QPSK_1_0_Mid CH133297-680.7

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30MHz~3GHz_Band71_20MHz_QPSK_1_0_High CH133372-688

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3GHz~10GHz_Band71_20MHz_QPSK_1_0_High CH133372-688

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FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

FCC §27.53(a) for LTE B30

For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

(4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

FCC §27.53(c) for LTE B13

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than

65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53 (f) for LTE B13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wide-band signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(c) for LTE B13

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated out-

side the band below the transmitter power (P) by at least 43 + 10 log (P) dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than

65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(c) (5) & FCC §27.53(g) for LTE B12, 13, 71

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band 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.

FCC §27.53(h)(3) for LTE B4, 66

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

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center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC §27.53(m) (4) (6) for LTE B7, 41

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 nstrumentation 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.

§90.691 Emission mask requirements for EA-based systems for LTE B26

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows: (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

FCC §90.543 (e) for LTE B14

For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB

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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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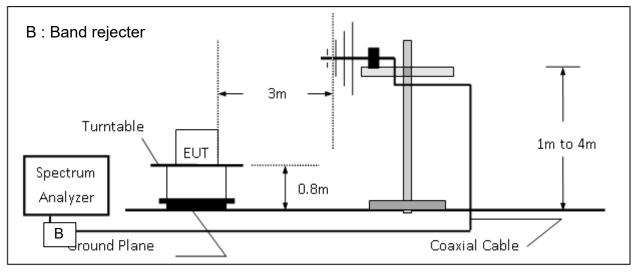
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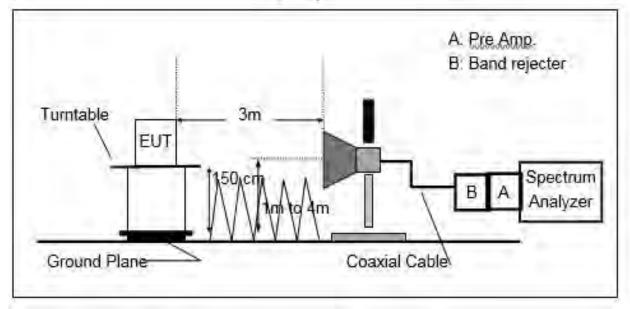


9.2 EUT Setup

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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Measurement Equipment Used: 9.4

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Broadband Antenna	TESEQ	CBL 6112D	35240	09/09/2019	09/08/2020			
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/09/2019	01/08/2020			
Horn Antenna	SCHWAZBECK	BBHA9170	184	12/27/2018	12/26/2019			
Loop Antenna	ETS.LINDGREN	6502	143303	04/25/2019	04/24/2020			
EMI Test Receiver	R&S	ESU 40	100363	04/15/2019	04/14/2020			
Radio Communica- tion Analyer	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020			
Pre-Amplifier	EMC Instruments	EMC330	980096	11/20/2019	11/19/2020			
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/20/2019	11/19/2020			
Pre-Amplifier	EMC Instruments	EMC184045B	980135	11/20/2019	11/19/2020			
Notch Filter	Woken	EWT-54-0037	RF54	11/20/2019	11/19/2020			
Notch Filter	Woken	EWT-54-0038	RF55	11/20/2019	11/19/2020			
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/20/2019	11/19/2020			
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/20/2019	11/19/2020			
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/20/2019	11/19/2020			

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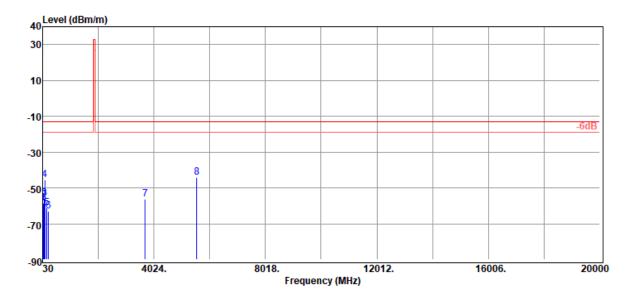
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9.5 **Measurement Result:**

Radiated Spurious Emission Measurement Result: WCDMA Band 2

Report Number	:E2/2019/A0029	Test Date	:2019-12-09
Operation Mode	:WCDMA B2	Temp./Humi.	:21.4/51
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Ashton
Test Channel	:1852.4 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
56.19	-58.41	-41.21	-16.25	-0.95	-13.00	-45.41
78.50	-56.76	-46.78	-8.84	-1.14	-13.00	-43.76
91.11	-55.72	-48.69	-5.85	-1.18	-13.00	-42.72
116.33	-45.62	-37.04	-7.13	-1.45	-13.00	-32.62
186.17	-61.40	-56.16	-3.42	-1.82	-13.00	-48.40
246.31	-62.96	-59.02	-1.71	-2.23	-13.00	-49.96
3704.80	-56.31	-57.31	12.31	-11.31	-13.00	-43.31
5557.20	-44.02	-45.95	13.33	-11.40	-13.00	-31.02

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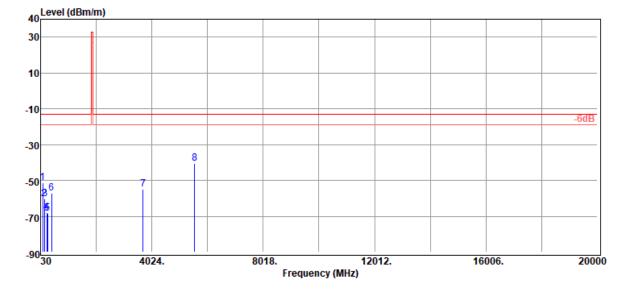
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Report Number	:E2/2019/A0029
Operation Mode	:WCDMA B2
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:1852.4 MHz

Test Date	:2019-12-09
Temp./Humi.	:21.4/51
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
116.33	-51.51	-42.93	-7.13	-1.45	-13.00	-38.51
163.86	-60.17	-51.81	-6.66	-1.70	-13.00	-47.17
183.26	-60.51	-54.88	-3.85	-1.78	-13.00	-47.51
250.19	-68.05	-64.24	-1.58	-2.23	-13.00	-55.05
284.14	-68.54	-64.44	-1.65	-2.45	-13.00	-55.54
423.82	-56.97	-52.49	-1.35	-3.13	-13.00	-43.97
3704.80	-55.11	-56.11	12.31	-11.31	-13.00	-42.11
5557.20	-40.62	-42.55	13.33	-11.40	-13.00	-27.62

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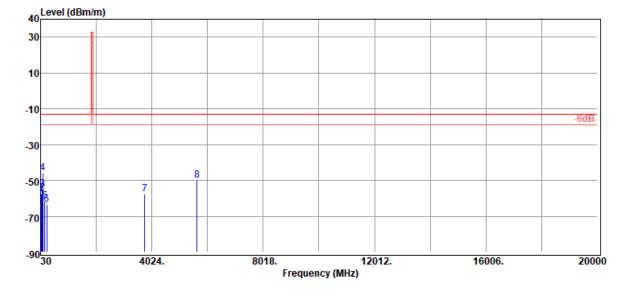
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Report Number	:E2/2019/A0029
Operation Mode	:WCDMA B2
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1880 MHz

Test Date	:2019-12-09
Temp./Humi.	:21.4/51
Antenna Pol.	:VERTICAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
56.19	-57.58	-40.38	-16.25	-0.95	-13.00	-44.58
78.50	-57.24	-47.26	-8.84	-1.14	-13.00	-44.24
91.11	-55.12	-48.09	-5.85	-1.18	-13.00	-42.12
116.33	-45.72	-37.14	-7.13	-1.45	-13.00	-32.72
183.26	-61.72	-56.09	-3.85	-1.78	-13.00	-48.72
249.22	-63.27	-59.43	-1.61	-2.23	-13.00	-50.27
3760.00	-57.70	-59.04	12.42	-11.08	-13.00	-44.70
5640.00	-49.83	-51.76	13.50	-11.57	-13.00	-36.83

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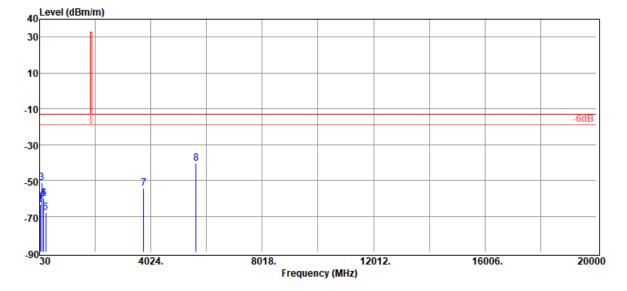
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Report Number	:E2/2019/A0029
Operation Mode	:WCDMA B2
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1880 MHz

Test Date	:2019-12-09
Temp./Humi.	:21.4/51
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
32.91	-63.15	-42.38	-20.09	-0.68	-13.00	-50.15
56.19	-63.62	-46.42	-16.25	-0.95	-13.00	-50.62
116.33	-51.53	-42.95	-7.13	-1.45	-13.00	-38.53
165.80	-60.08	-51.82	-6.55	-1.71	-13.00	-47.08
181.32	-60.19	-54.29	-4.14	-1.76	-13.00	-47.19
251.16	-67.76	-63.97	-1.56	-2.23	-13.00	-54.76
3760.00	-54.41	-55.75	12.42	-11.08	-13.00	-41.41
5640.00	-40.30	-42.23	13.50	-11.57	-13.00	-27.30

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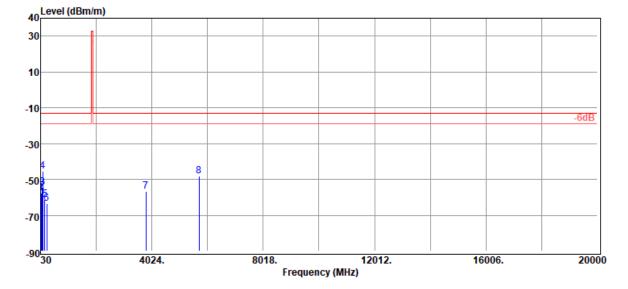
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Report Number	:E2/2019/A0029
Operation Mode	:WCDMA B2
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:1907.6 MHz

Test Date	:2019-12-09
Temp./Humi.	:21.4/51
Antenna Pol.	:VERTICAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
56.19	-57.67	-40.47	-16.25	-0.95	-13.00	-44.67
78.50	-56.88	-46.90	-8.84	-1.14	-13.00	-43.88
91.11	-54.53	-47.50	-5.85	-1.18	-13.00	-41.53
116.33	-45.60	-37.02	-7.13	-1.45	-13.00	-32.60
185.20	-61.40	-56.02	-3.57	-1.81	-13.00	-48.40
252.13	-63.58	-59.79	-1.55	-2.24	-13.00	-50.58
3815.20	-56.78	-58.39	12.50	-10.89	-13.00	-43.78
5722.80	-47.98	-49.63	13.35	-11.70	-13.00	-34.98

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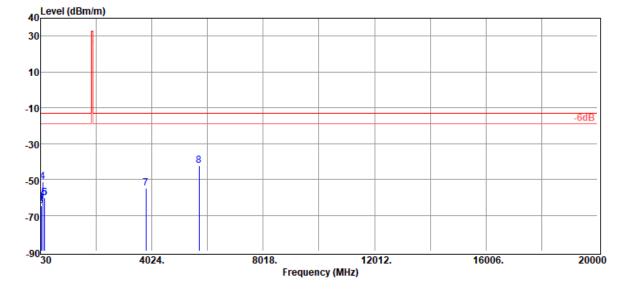
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Report Number	:E2/2019/A0029
Operation Mode	:WCDMA B2
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:1907.6 MHz

Test Date	:2019-12-09
Temp./Humi.	:21.4/51
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
32.91	-62.74	-41.97	-20.09	-0.68	-13.00	-49.74
38.73	-63.41	-43.33	-19.25	-0.83	-13.00	-50.41
55.22	-65.02	-47.61	-16.48	-0.93	-13.00	-52.02
115.36	-51.17	-42.58	-7.14	-1.45	-13.00	-38.17
163.86	-60.22	-51.86	-6.66	-1.70	-13.00	-47.22
184.23	-60.30	-54.80	-3.71	-1.79	-13.00	-47.30
3815.20	-55.07	-56.68	12.50	-10.89	-13.00	-42.07
5722.80	-42.24	-43.89	13.35	-11.70	-13.00	-29.24

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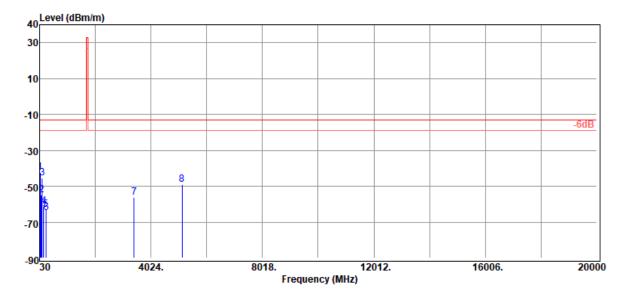
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Radiated Spurious Emission Measurement Result: WCDMA Band 4

Report Number	:E2/2019/A0029	Test Date	:2019-12-09
Operation Mode	:WCDMA B4	Temp./Humi.	:21.5/49
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Ashton
Test Channel	:1712.4 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
56.19	-42.39	-25.19	-16.25	-0.95	-13.00	-29.39
91.11	-54.80	-47.77	-5.85	-1.18	-13.00	-41.80
117.30	-45.57	-37.03	-7.09	-1.45	-13.00	-32.57
183.26	-61.33	-55.70	-3.85	-1.78	-13.00	-48.33
248.25	-62.82	-58.95	-1.64	-2.23	-13.00	-49.82
265.71	-64.86	-61.01	-1.58	-2.27	-13.00	-51.86
3424.80	-56.04	-57.40	12.65	-11.29	-13.00	-43.04
5137.20	-49.28	-49.95	12.47	-11.80	-13.00	-36.28

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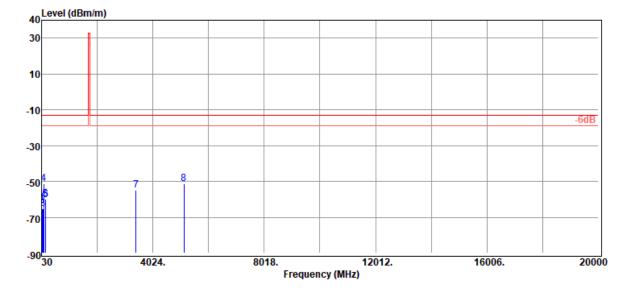
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Report Number	:E2/2019/A0029
Operation Mode	:WCDMA B4
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:1712.4 MHz

Test Date	:2019-12-09
Temp./Humi.	:21.5/49
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
34.85	-62.12	-41.62	-19.77	-0.73	-13.00	-49.12
55.22	-65.07	-47.66	-16.48	-0.93	-13.00	-52.07
75.59	-65.30	-54.36	-9.85	-1.09	-13.00	-52.30
116.33	-51.27	-42.69	-7.13	-1.45	-13.00	-38.27
164.83	-59.66	-51.35	-6.60	-1.71	-13.00	-46.66
183.26	-60.41	-54.78	-3.85	-1.78	-13.00	-47.41
3424.80	-55.02	-56.38	12.65	-11.29	-13.00	-42.02
5137.20	-51.29	-51.96	12.47	-11.80	-13.00	-38.29

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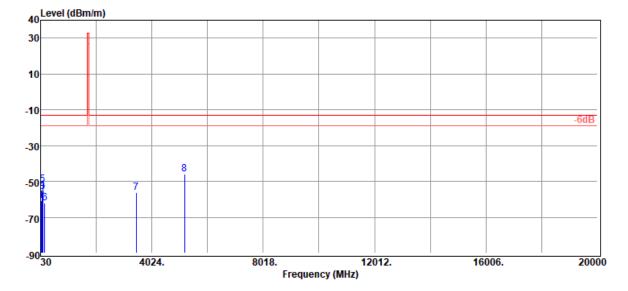
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Report Number	:E2/2019/A0029
Operation Mode	:WCDMA B4
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1732.6 MHz

Test Date	:2019-12-09
Temp./Humi.	:21.5/49
Antenna Pol.	:VERTICAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
56.19	-60.95	-43.75	-16.25	-0.95	-13.00	-47.95
79.47	-60.83	-51.14	-8.54	-1.15	-13.00	-47.83
91.11	-56.02	-48.99	-5.85	-1.18	-13.00	-43.02
103.72	-54.91	-46.90	-6.64	-1.37	-13.00	-41.91
113.42	-51.92	-43.32	-7.15	-1.45	-13.00	-38.92
184.23	-61.91	-56.41	-3.71	-1.79	-13.00	-48.91
3465.20	-56.24	-57.72	12.51	-11.03	-13.00	-43.24
5197.80	-46.13	-46.83	12.69	-11.99	-13.00	-33.13

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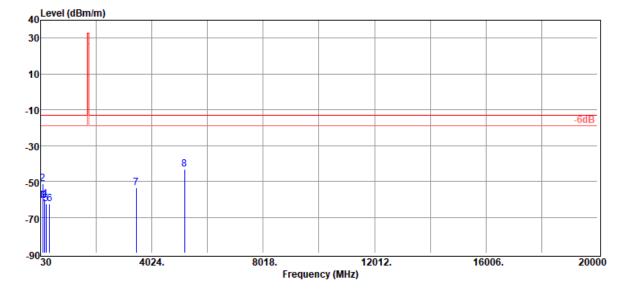
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Report Number	:E2/2019/A0029
Operation Mode	:WCDMA B4
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1732.6 MHz

Test Date	:2019-12-09
Temp./Humi.	:21.5/49
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
33.88	-60.84	-40.29	-19.84	-0.71	-13.00	-47.84
116.33	-51.38	-42.80	-7.13	-1.45	-13.00	-38.38
163.86	-60.90	-52.54	-6.66	-1.70	-13.00	-47.90
181.32	-59.71	-53.81	-4.14	-1.76	-13.00	-46.71
228.85	-62.64	-59.09	-1.36	-2.19	-13.00	-49.64
358.83	-62.56	-58.59	-1.39	-2.58	-13.00	-49.56
3465.20	-53.51	-54.99	12.51	-11.03	-13.00	-40.51
5197.80	-43.17	-43.87	12.69	-11.99	-13.00	-30.17

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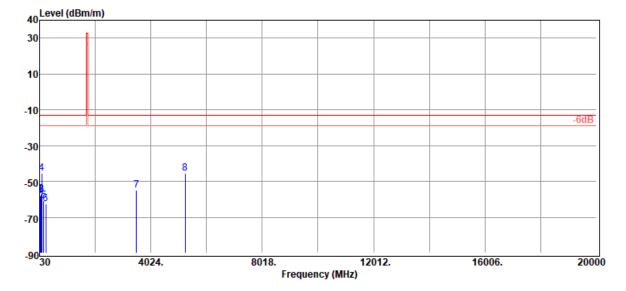
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Report Number	:E2/2019/A0029
Operation Mode	:WCDMA B4
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:1752.6 MHz

Test Date	:2019-12-09
Temp./Humi.	:21.5/49
Antenna Pol.	:VERTICAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
56.19	-57.88	-40.68	-16.25	-0.95	-13.00	-44.88
77.53	-57.57	-47.30	-9.15	-1.12	-13.00	-44.57
91.11	-57.06	-50.03	-5.85	-1.18	-13.00	-44.06
116.33	-45.46	-36.88	-7.13	-1.45	-13.00	-32.46
186.17	-60.61	-55.37	-3.42	-1.82	-13.00	-47.61
250.19	-62.45	-58.64	-1.58	-2.23	-13.00	-49.45
3505.20	-55.11	-56.58	12.30	-10.83	-13.00	-42.11
5257.80	-45.46	-46.75	13.13	-11.84	-13.00	-32.46

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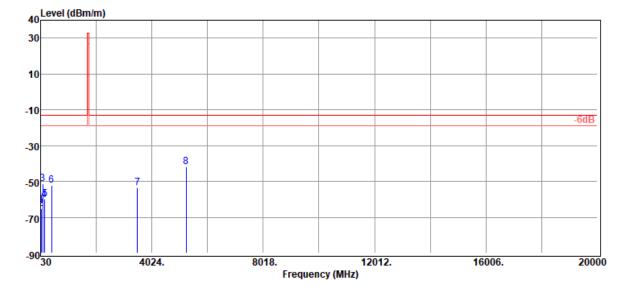
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Report Number	:E2/2019/A0029
Operation Mode	:WCDMA B4
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:1752.6 MHz

Test Date	:2019-12-09
Temp./Humi.	:21.5/49
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
35.82	-63.49	-43.09	-19.64	-0.76	-13.00	-50.49
55.22	-65.09	-47.68	-16.48	-0.93	-13.00	-52.09
115.36	-51.29	-42.70	-7.14	-1.45	-13.00	-38.29
167.74	-60.34	-52.16	-6.45	-1.73	-13.00	-47.34
183.26	-59.84	-54.21	-3.85	-1.78	-13.00	-46.84
422.85	-52.38	-47.92	-1.33	-3.13	-13.00	-39.38
3505.20	-53.67	-55.14	12.30	-10.83	-13.00	-40.67
5257.80	-42.03	-43.32	13.13	-11.84	-13.00	-29.03

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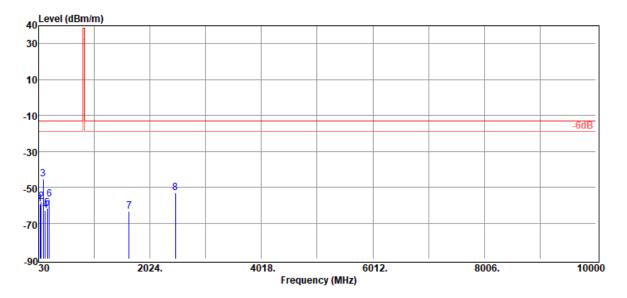
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Radiated Spurious Emission Measurement Result: WCDMA Band 5

Report Number	:E2/2019/A0029	Test Date	:2019-12-09
Operation Mode	:WCDMA B5	Temp./Humi.	:21.7/52
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Ashton
Test Channel	:826.4 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
56.19	-59.26	-42.06	-16.25	-0.95	-13.00	-46.26
79.47	-57.93	-48.24	-8.54	-1.15	-13.00	-44.93
116.33	-45.63	-37.05	-7.13	-1.45	-13.00	-32.63
150.28	-63.10	-54.02	-7.40	-1.68	-13.00	-50.10
182.29	-61.50	-55.73	-4.00	-1.77	-13.00	-48.50
219.15	-56.66	-53.17	-1.31	-2.18	-13.00	-43.66
1652.80	-63.55	-65.33	9.33	-7.55	-13.00	-50.55
2479.20	-53.19	-54.74	10.56	-9.01	-13.00	-40.19

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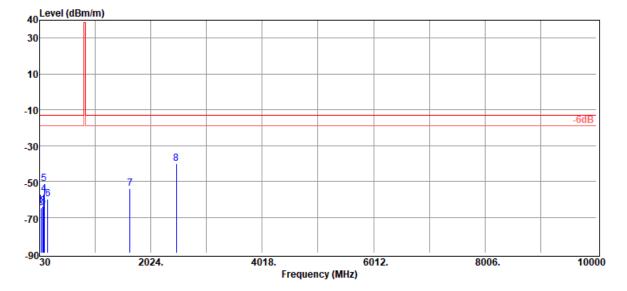
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Report Number	:E2/2019/A0029
Operation Mode	:WCDMA B5
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:826.4 MHz

Test Date	:2019-12-09
Temp./Humi.	:21.7/52
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
36.79	-62.83	-42.62	-19.43	-0.78	-13.00	-49.83
56.19	-64.75	-47.55	-16.25	-0.95	-13.00	-51.75
91.11	-63.89	-56.86	-5.85	-1.18	-13.00	-50.89
105.66	-57.34	-49.11	-6.83	-1.40	-13.00	-44.34
116.33	-51.52	-42.94	-7.13	-1.45	-13.00	-38.52
179.38	-59.87	-53.61	-4.52	-1.74	-13.00	-46.87
1652.80	-54.04	-55.82	9.33	-7.55	-13.00	-41.04
2479.20	-40.24	-41.79	10.56	-9.01	-13.00	-27.24

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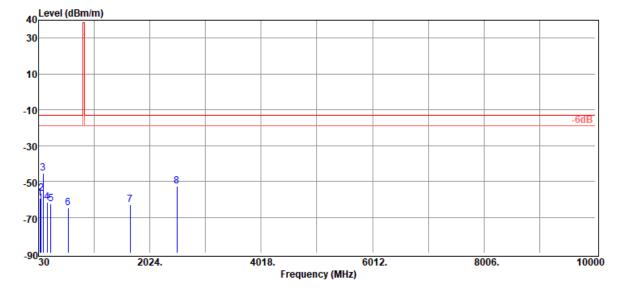
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:E2/2019/A0029
:WCDMA B5
:TX CH MID
:E2 Plan
:836.6 MHz

Test Date	:2019-12-09
Temp./Humi.	:21.7/52
Antenna Pol.	:VERTICAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
56.19	-59.58	-42.38	-16.25	-0.95	-13.00	-46.58
78.50	-56.81	-46.83	-8.84	-1.14	-13.00	-43.81
116.33	-45.53	-36.95	-7.13	-1.45	-13.00	-32.53
185.20	-61.86	-56.48	-3.57	-1.81	-13.00	-48.86
251.16	-62.67	-58.88	-1.56	-2.23	-13.00	-49.67
561.56	-64.93	-60.19	-1.29	-3.45	-13.00	-51.93
1673.20	-62.97	-64.82	9.53	-7.68	-13.00	-49.97
2509.80	-52.76	-54.33	10.62	-9.05	-13.00	-39.76

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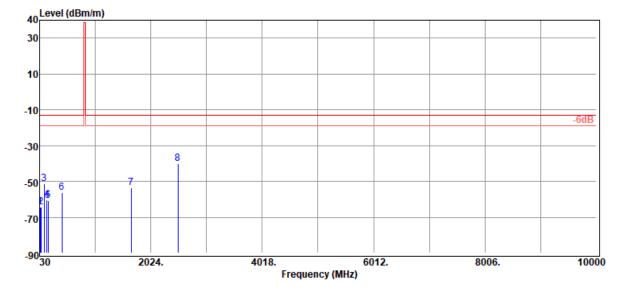
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Report Number	:E2/2019/A0029
Operation Mode	:WCDMA B5
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:836.6 MHz

Test Date	:2019-12-09
Temp./Humi.	:21.7/52
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
41.64	-64.45	-44.67	-18.92	-0.86	-13.00	-51.45
56.19	-64.46	-47.26	-16.25	-0.95	-13.00	-51.46
116.33	-51.44	-42.86	-7.13	-1.45	-13.00	-38.44
164.83	-60.39	-52.08	-6.60	-1.71	-13.00	-47.39
183.26	-60.57	-54.94	-3.85	-1.78	-13.00	-47.57
427.70	-56.06	-51.51	-1.42	-3.13	-13.00	-43.06
1673.20	-53.41	-55.26	9.53	-7.68	-13.00	-40.41
2509.80	-40.18	-41.75	10.62	-9.05	-13.00	-27.18

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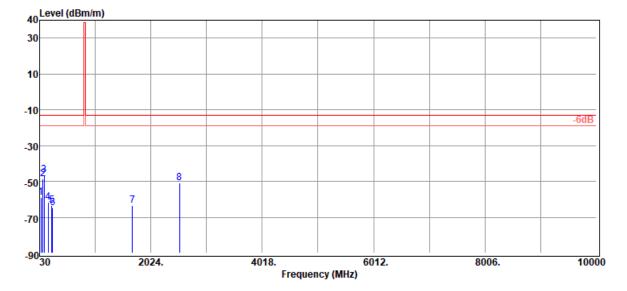
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:E2/2019/A0029
:WCDMA B5
:TX CH HIGH
:E2 Plan
:846.6 MHz

Test Date	:2019-12-09
Temp./Humi.	:21.7/52
Antenna Pol.	:VERTICAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
56.19	-59.03	-41.83	-16.25	-0.95	-13.00	-46.03
92.08	-48.60	-41.64	-5.76	-1.20	-13.00	-35.60
115.36	-46.27	-37.68	-7.14	-1.45	-13.00	-33.27
185.20	-61.75	-56.37	-3.57	-1.81	-13.00	-48.75
250.19	-63.46	-59.65	-1.58	-2.23	-13.00	-50.46
265.71	-64.83	-60.98	-1.58	-2.27	-13.00	-51.83
1693.20	-63.33	-65.25	9.73	-7.81	-13.00	-50.33
2539.80	-50.74	-52.34	10.68	-9.08	-13.00	-37.74

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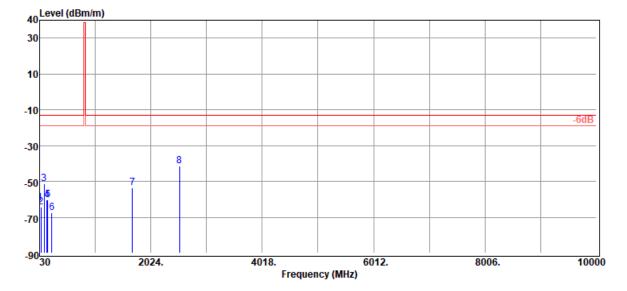
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Report Number	:E2/2019/A0029
Operation Mode	:WCDMA B5
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:846.6 MHz

Test Date	:2019-12-09
Temp./Humi.	:21.7/52
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
31.94	-62.08	-41.06	-20.36	-0.66	-13.00	-49.08
56.19	-64.52	-47.32	-16.25	-0.95	-13.00	-51.52
116.33	-51.40	-42.82	-7.13	-1.45	-13.00	-38.40
164.83	-60.24	-51.93	-6.60	-1.71	-13.00	-47.24
180.35	-60.53	-54.44	-4.35	-1.74	-13.00	-47.53
250.19	-67.72	-63.91	-1.58	-2.23	-13.00	-54.72
1693.20	-53.65	-55.57	9.73	-7.81	-13.00	-40.65
2539.80	-41.38	-42.98	10.68	-9.08	-13.00	-28.38

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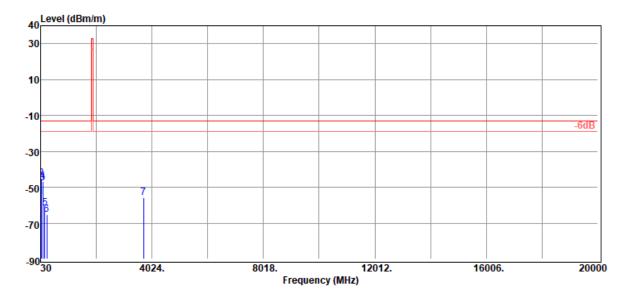
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Radiated Spurious Emission Measurement Result: LTE Band 2 Mode

Report Number	:E2/2019/A0029	Test Date	:2019-11-20
Operation Mode	:LTE B2	Temp./Humi.	:23.5/57
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:1860 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
37.76	-55.15	-35.00	-19.35	-0.80	-13.00	-42.15
55.22	-44.84	-27.43	-16.48	-0.93	-13.00	-31.84
104.69	-47.83	-39.66	-6.78	-1.39	-13.00	-34.83
116.33	-46.78	-38.20	-7.13	-1.45	-13.00	-33.78
184.23	-61.68	-56.18	-3.71	-1.79	-13.00	-48.68
253.10	-65.29	-61.51	-1.54	-2.24	-13.00	-52.29
3720.00	-55.85	-56.94	12.34	-11.25	-13.00	-42.85

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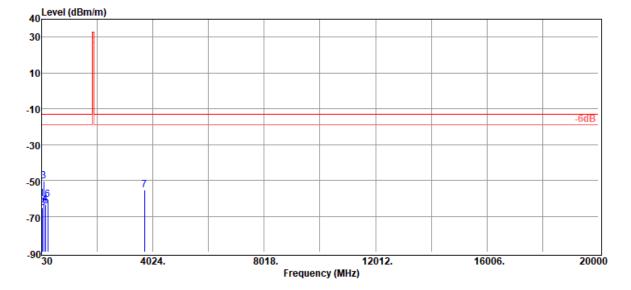
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Report Number	:E2/2019/A0029		
Operation Mode	:LTE B2		
Test Mode	:TX CH LOW		
EUT Pol	:E2 Plan		
Test Channel	:1860 MHz		

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
40.67	-60.50	-40.62	-19.02	-0.86	-13.00	-47.50
56.19	-65.10	-47.90	-16.25	-0.95	-13.00	-52.10
116.33	-50.22	-41.64	-7.13	-1.45	-13.00	-37.22
160.95	-63.62	-55.03	-6.90	-1.69	-13.00	-50.62
180.35	-64.20	-58.11	-4.35	-1.74	-13.00	-51.20
251.16	-60.88	-57.09	-1.56	-2.23	-13.00	-47.88
3720.00	-55.34	-56.43	12.34	-11.25	-13.00	-42.34

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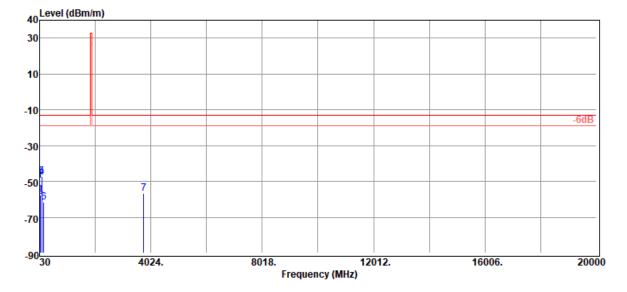
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:E2/2019/A0029
:LTE B2
:TX CH MID
:E2 Plan
:1880 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
41.64	-49.73	-29.95	-18.92	-0.86	-13.00	-36.73
57.16	-57.82	-40.80	-16.06	-0.96	-13.00	-44.82
62.98	-58.59	-43.33	-14.26	-1.00	-13.00	-45.59
104.69	-47.80	-39.63	-6.78	-1.39	-13.00	-34.80
116.33	-47.06	-38.48	-7.13	-1.45	-13.00	-34.06
183.26	-61.78	-56.15	-3.85	-1.78	-13.00	-48.78
3760.00	-56.60	-57.94	12.42	-11.08	-13.00	-43.60

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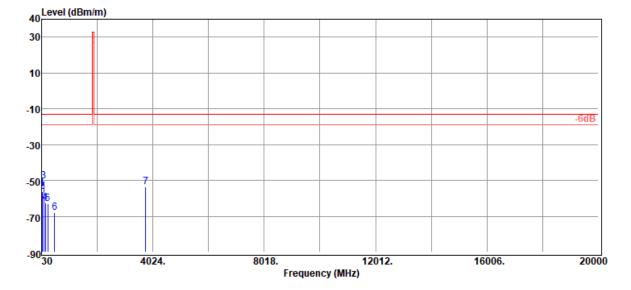
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B2
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1880 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
38.73	-54.35	-34.27	-19.25	-0.83	-13.00	-41.35
58.13	-56.18	-39.47	-15.74	-0.97	-13.00	-43.18
116.33	-50.42	-41.84	-7.13	-1.45	-13.00	-37.42
165.80	-62.62	-54.36	-6.55	-1.71	-13.00	-49.62
252.13	-62.89	-59.10	-1.55	-2.24	-13.00	-49.89
492.69	-67.80	-63.26	-1.05	-3.49	-13.00	-54.80
3760.00	-53.62	-54.96	12.42	-11.08	-13.00	-40.62

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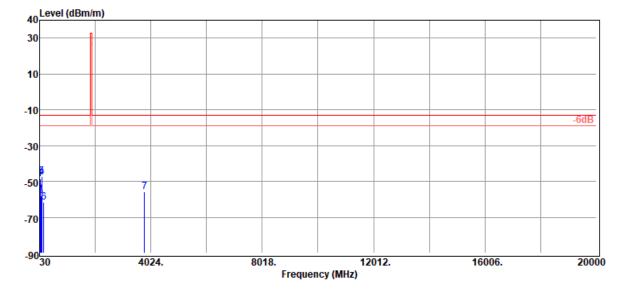
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B2
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:1900 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
47.46	-48.47	-29.54	-18.07	-0.86	-13.00	-35.47
55.22	-57.34	-39.93	-16.48	-0.93	-13.00	-44.34
74.62	-57.86	-46.63	-10.16	-1.07	-13.00	-44.86
104.69	-47.72	-39.55	-6.78	-1.39	-13.00	-34.72
116.33	-47.22	-38.64	-7.13	-1.45	-13.00	-34.22
184.23	-61.83	-56.33	-3.71	-1.79	-13.00	-48.83
3800.00	-55.98	-57.56	12.50	-10.92	-13.00	-42.98

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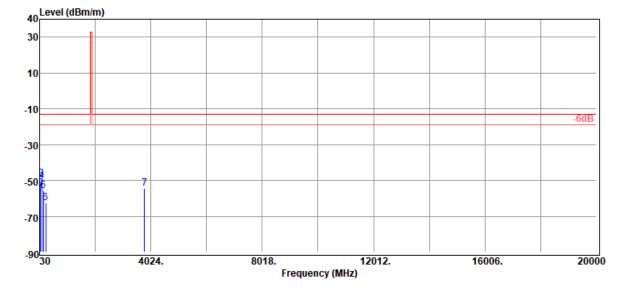
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B2
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:1900 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
36.79	-57.71	-37.50	-19.43	-0.78	-13.00	-44.71
65.89	-54.34	-40.04	-13.30	-1.00	-13.00	-41.34
102.75	-48.87	-41.03	-6.48	-1.36	-13.00	-35.87
115.36	-50.23	-41.64	-7.14	-1.45	-13.00	-37.23
163.86	-55.62	-47.26	-6.66	-1.70	-13.00	-42.62
252.13	-62.72	-58.93	-1.55	-2.24	-13.00	-49.72
3800.00	-54.53	-56.11	12.50	-10.92	-13.00	-41.53

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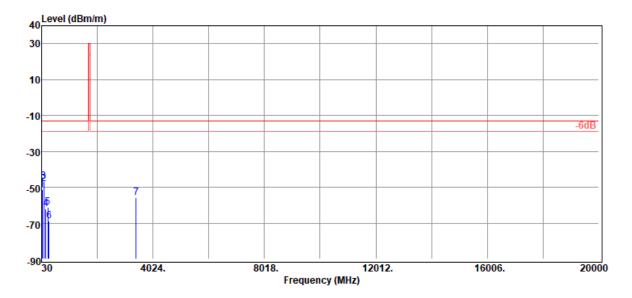
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Radiated Spurious Emission Measurement Result: LTE Band 4 Mode

Report Number	:E2/2019/A0029	Test Date	:2019-11-20
Operation Mode	:LTE B4	Temp./Humi.	:23.5/57
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:1712.5 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
51.34	-51.50	-33.29	-17.33	-0.88	-13.00	-38.50
104.69	-48.33	-40.16	-6.78	-1.39	-13.00	-35.33
116.33	-46.84	-38.26	-7.13	-1.45	-13.00	-33.84
183.26	-61.91	-56.28	-3.85	-1.78	-13.00	-48.91
249.22	-61.40	-57.56	-1.61	-2.23	-13.00	-48.40
304.51	-68.76	-64.69	-1.45	-2.62	-13.00	-55.76
3425.00	-55.64	-57.00	12.65	-11.29	-13.00	-42.64

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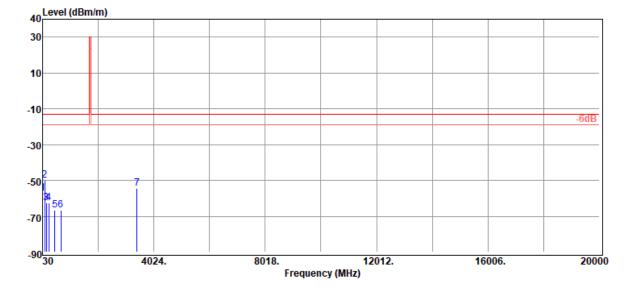
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B4
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:1712.5 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
40.67	-57.22	-37.34	-19.02	-0.86	-13.00	-44.22
115.36	-50.16	-41.57	-7.14	-1.45	-13.00	-37.16
160.95	-62.74	-54.15	-6.90	-1.69	-13.00	-49.74
251.16	-62.53	-58.74	-1.56	-2.23	-13.00	-49.53
466.50	-66.43	-61.93	-1.29	-3.21	-13.00	-53.43
687.66	-66.78	-61.18	-1.39	-4.21	-13.00	-53.78
3425.00	-54.58	-55.94	12.65	-11.29	-13.00	-41.58

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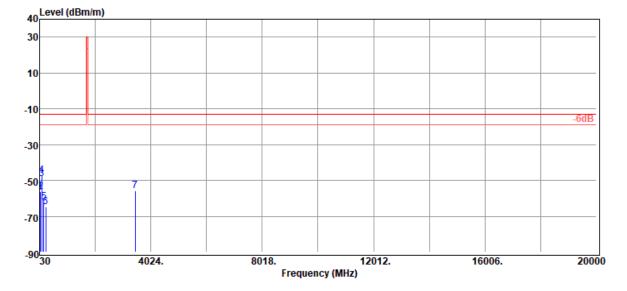
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B4
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1732.5 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
39.70	-56.69	-36.70	-19.14	-0.85	-13.00	-43.69
59.10	-56.38	-39.89	-15.50	-0.99	-13.00	-43.38
104.69	-49.17	-41.00	-6.78	-1.39	-13.00	-36.17
116.33	-47.27	-38.69	-7.13	-1.45	-13.00	-34.27
183.26	-61.97	-56.34	-3.85	-1.78	-13.00	-48.97
252.13	-64.97	-61.18	-1.55	-2.24	-13.00	-51.97
3465.00	-55.80	-57.28	12.51	-11.03	-13.00	-42.80

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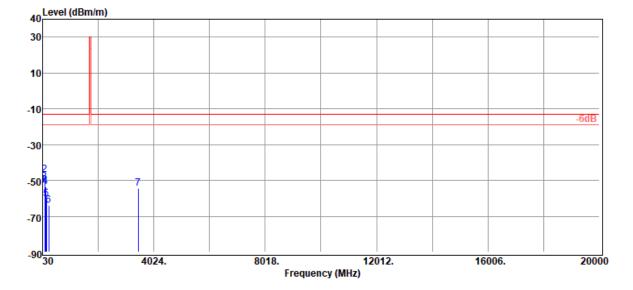
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B4
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1732.5 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
34.85	-52.79	-32.29	-19.77	-0.73	-13.00	-39.79
104.69	-46.68	-38.51	-6.78	-1.39	-13.00	-33.68
116.33	-50.93	-42.35	-7.13	-1.45	-13.00	-37.93
133.79	-53.44	-44.39	-7.39	-1.66	-13.00	-40.44
164.83	-60.33	-52.02	-6.60	-1.71	-13.00	-47.33
250.19	-63.69	-59.88	-1.58	-2.23	-13.00	-50.69
3465.00	-54.47	-55.95	12.51	-11.03	-13.00	-41.47

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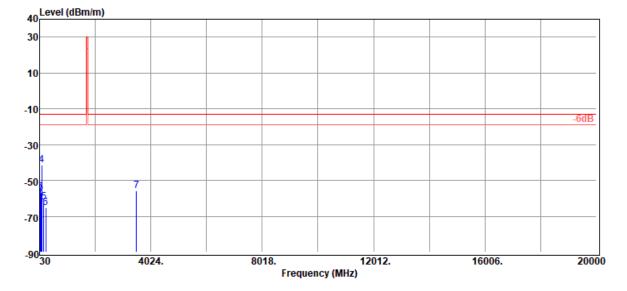
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:E2/2019/A0029
:LTE B4
:TX CH HIGH
:E2 Plan
:1752.5 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
50.37	-59.82	-41.45	-17.50	-0.87	-13.00	-46.82
56.19	-57.72	-40.52	-16.25	-0.95	-13.00	-44.72
81.41	-56.66	-47.56	-7.94	-1.16	-13.00	-43.66
111.48	-41.45	-32.91	-7.09	-1.45	-13.00	-28.45
182.29	-61.97	-56.20	-4.00	-1.77	-13.00	-48.97
251.16	-65.36	-61.57	-1.56	-2.23	-13.00	-52.36
3505.00	-55.97	-57.44	12.30	-10.83	-13.00	-42.97

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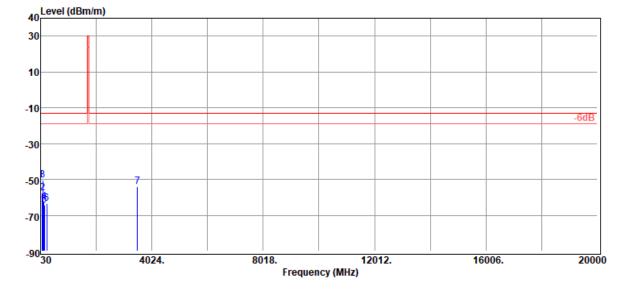
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:E2/2019/A0029
:LTE B4
:TX CH HIGH
:E2 Plan
:1752.5 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
36.79	-50.39	-30.18	-19.43	-0.78	-13.00	-37.39
93.05	-57.39	-50.41	-5.77	-1.21	-13.00	-44.39
116.33	-50.26	-41.68	-7.13	-1.45	-13.00	-37.26
148.34	-62.68	-53.49	-7.51	-1.68	-13.00	-49.68
163.86	-64.46	-56.10	-6.66	-1.70	-13.00	-51.46
251.16	-63.43	-59.64	-1.56	-2.23	-13.00	-50.43
3505.00	-54.23	-55.70	12.30	-10.83	-13.00	-41.23

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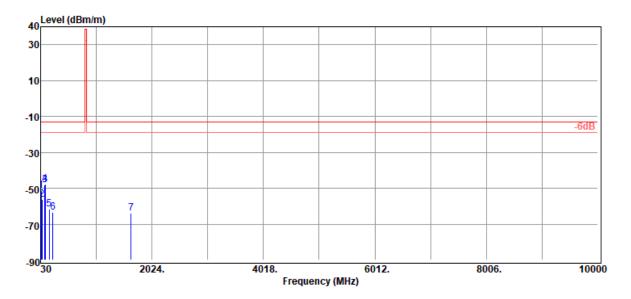
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Radiated Spurious Emission Measurement Result: LTE Band 5 Mode

Report Number	:E2/2019/A0029	Test Date	:2019-11-21
Operation Mode	:LTE B5	Temp./Humi.	:23.5/57
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:826.5 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
38.73	-51.10	-31.02	-19.25	-0.83	-13.00	-38.10
55.22	-56.39	-38.98	-16.48	-0.93	-13.00	-43.39
104.69	-48.09	-39.92	-6.78	-1.39	-13.00	-35.09
116.33	-47.94	-39.36	-7.13	-1.45	-13.00	-34.94
184.23	-61.47	-55.97	-3.71	-1.79	-13.00	-48.47
251.16	-63.44	-59.65	-1.56	-2.23	-13.00	-50.44
1653.00	-64.00	-65.78	9.33	-7.55	-13.00	-51.00

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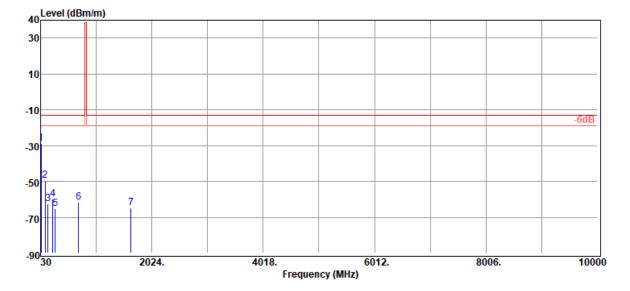
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B5
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:826.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
37.76	-29.05	-8.90	-19.35	-0.80	-13.00	-16.05
116.33	-49.54	-40.96	-7.13	-1.45	-13.00	-36.54
165.80	-62.39	-54.13	-6.55	-1.71	-13.00	-49.39
251.16	-59.77	-55.98	-1.56	-2.23	-13.00	-46.77
291.90	-65.31	-61.17	-1.63	-2.51	-13.00	-52.31
713.85	-61.47	-56.23	-1.34	-3.90	-13.00	-48.47
1653.00	-64.96	-66.74	9.33	-7.55	-13.00	-51.96

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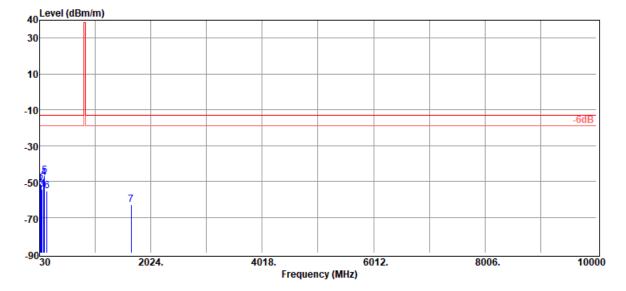
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B5
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:836.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
42.61	-51.51	-31.84	-18.81	-0.86	-13.00	-38.51
52.31	-51.54	-33.51	-17.14	-0.89	-13.00	-38.54
70.74	-54.33	-41.60	-11.72	-1.01	-13.00	-41.33
104.69	-48.12	-39.95	-6.78	-1.39	-13.00	-35.12
117.30	-46.79	-38.25	-7.09	-1.45	-13.00	-33.79
160.95	-55.27	-46.68	-6.90	-1.69	-13.00	-42.27
1673.00	-63.17	-65.02	9.53	-7.68	-13.00	-50.17

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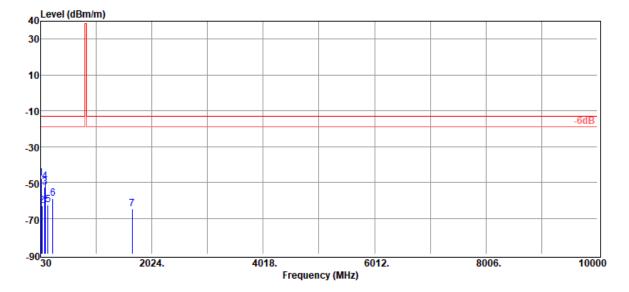
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:E2/2019/A0029
:LTE B5
:TX CH MID
:E2 Plan
:836.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
39.70	-47.56	-27.57	-19.14	-0.85	-13.00	-34.56
56.19	-63.06	-45.86	-16.25	-0.95	-13.00	-50.06
103.72	-52.71	-44.70	-6.64	-1.37	-13.00	-39.71
116.33	-49.67	-41.09	-7.13	-1.45	-13.00	-36.67
165.80	-62.39	-54.13	-6.55	-1.71	-13.00	-49.39
251.16	-59.12	-55.33	-1.56	-2.23	-13.00	-46.12
1673.00	-64.59	-66.44	9.53	-7.68	-13.00	-51.59

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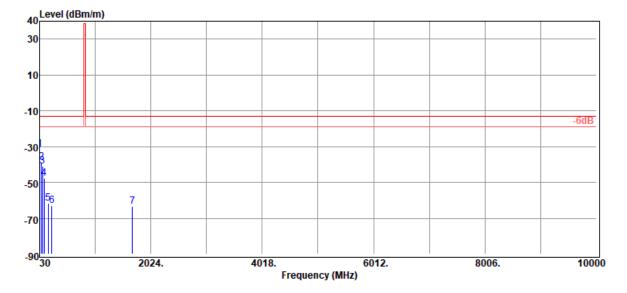
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f (886-2) 2298-0488

Report Number	:E2/2019/A0029
Operation Mode	:LTE B5
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:846.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
36.79	-31.73	-11.52	-19.43	-0.78	-13.00	-18.73
62.01	-38.83	-23.24	-14.59	-1.00	-13.00	-25.83
81.41	-40.78	-31.68	-7.94	-1.16	-13.00	-27.78
116.33	-47.85	-39.27	-7.13	-1.45	-13.00	-34.85
184.23	-61.62	-56.12	-3.71	-1.79	-13.00	-48.62
250.19	-63.01	-59.20	-1.58	-2.23	-13.00	-50.01
1693.00	-63.66	-65.58	9.73	-7.81	-13.00	-50.66

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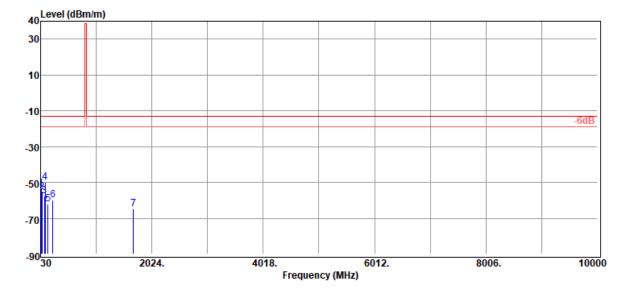
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:E2/2019/A0029
:LTE B5
:TX CH HIGH
:E2 Plan
:846.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
40.67	-53.77	-33.89	-19.02	-0.86	-13.00	-40.77
55.22	-55.54	-38.13	-16.48	-0.93	-13.00	-42.54
94.99	-57.79	-50.86	-5.69	-1.24	-13.00	-44.79
116.33	-50.15	-41.57	-7.13	-1.45	-13.00	-37.15
166.77	-62.20	-53.98	-6.50	-1.72	-13.00	-49.20
253.10	-59.70	-55.92	-1.54	-2.24	-13.00	-46.70
1693.00	-64.63	-66.55	9.73	-7.81	-13.00	-51.63

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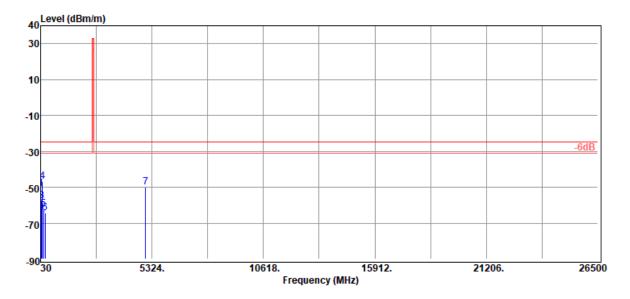
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Radiated Spurious Emission Measurement Result: LTE Band 7 Mode

Report Number	:E2/2019/A0029	Test Date	:2019-11-20
Operation Mode	:LTE B7	Temp./Humi.	:23.5/57
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:2510 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
41.64	-50.79	-31.01	-18.92	-0.86	-25.00	-25.79
50.37	-57.45	-39.08	-17.50	-0.87	-25.00	-32.45
68.80	-57.49	-44.04	-12.45	-1.00	-25.00	-32.49
116.33	-47.00	-38.42	-7.13	-1.45	-25.00	-22.00
182.29	-61.93	-56.16	-4.00	-1.77	-25.00	-36.93
248.25	-64.41	-60.54	-1.64	-2.23	-25.00	-39.41
5020.00	-49.79	-50.79	12.46	-11.46	-25.00	-24.79

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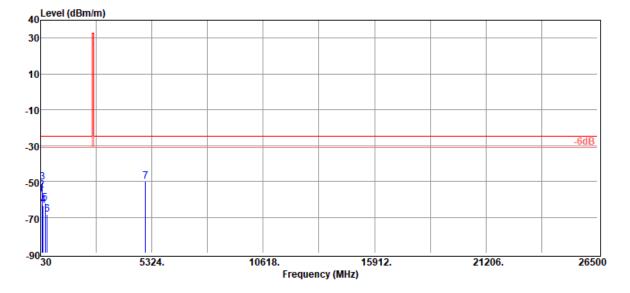
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B7
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:2510 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
39.70	-57.34	-37.35	-19.14	-0.85	-25.00	-32.34
102.75	-54.74	-46.90	-6.48	-1.36	-25.00	-29.74
115.36	-50.27	-41.68	-7.14	-1.45	-25.00	-25.27
160.95	-63.57	-54.98	-6.90	-1.69	-25.00	-38.57
250.19	-62.26	-58.45	-1.58	-2.23	-25.00	-37.26
338.46	-68.35	-64.15	-1.55	-2.65	-25.00	-43.35
5020.00	-50.17	-51.17	12.46	-11.46	-25.00	-25.17

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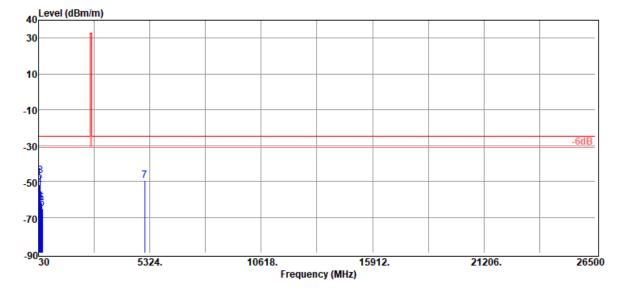
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B7
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:2535 MHz
Test Mode EUT Pol	:TX CH MID :E2 Plan

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
48.43	-47.98	-29.23	-17.89	-0.86	-25.00	-22.98
69.77	-51.68	-38.57	-12.11	-1.00	-25.00	-26.68
116.33	-46.80	-38.22	-7.13	-1.45	-25.00	-21.80
143.49	-61.07	-51.75	-7.65	-1.67	-25.00	-36.07
182.29	-62.26	-56.49	-4.00	-1.77	-25.00	-37.26
204.60	-65.16	-61.16	-1.92	-2.08	-25.00	-40.16
5070.00	-49.50	-50.30	12.40	-11.60	-25.00	-24.50

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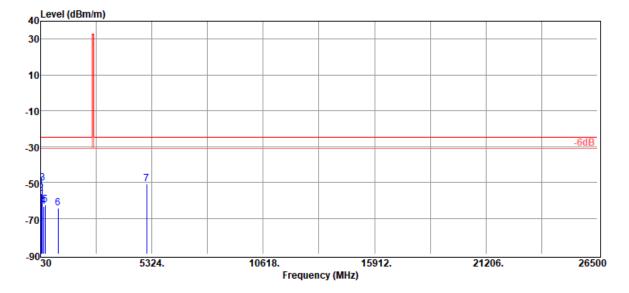
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:E2/2019/A0029
:LTE B7
:TX CH MID
:E2 Plan
:2535 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
41.64	-52.55	-32.77	-18.92	-0.86	-25.00	-27.55
62.98	-56.07	-40.81	-14.26	-1.00	-25.00	-31.07
115.36	-50.35	-41.76	-7.14	-1.45	-25.00	-25.35
167.74	-63.39	-55.21	-6.45	-1.73	-25.00	-38.39
248.25	-62.59	-58.72	-1.64	-2.23	-25.00	-37.59
862.26	-64.54	-58.61	-1.33	-4.60	-25.00	-39.54
5070.00	-50.67	-51.47	12.40	-11.60	-25.00	-25.67

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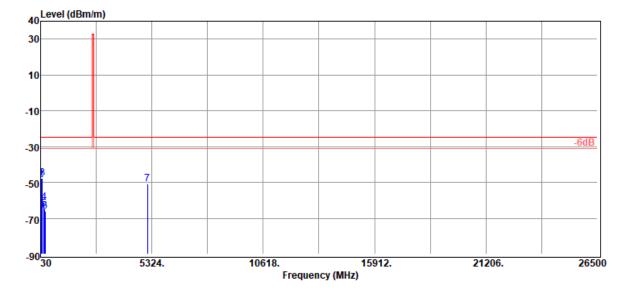
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E2/2019/A0029
LTE B7
TX CH HIGH
E2 Plan
2560 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
53.28	-47.84	-30.02	-16.91	-0.91	-25.00	-22.84
59.10	-48.70	-32.21	-15.50	-0.99	-25.00	-23.70
116.33	-47.88	-39.30	-7.13	-1.45	-25.00	-22.88
183.26	-61.41	-55.78	-3.85	-1.78	-25.00	-36.41
204.60	-64.87	-60.87	-1.92	-2.08	-25.00	-39.87
250.19	-66.16	-62.35	-1.58	-2.23	-25.00	-41.16
5120.00	-51.07	-51.77	12.44	-11.74	-25.00	-26.07

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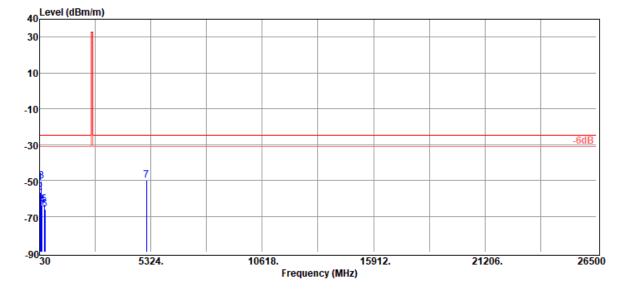
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B7
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:2560 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
32.91	-51.44	-30.67	-20.09	-0.68	-25.00	-26.44
64.92	-56.55	-41.84	-13.71	-1.00	-25.00	-31.55
115.36	-50.37	-41.78	-7.14	-1.45	-25.00	-25.37
161.92	-63.77	-55.23	-6.85	-1.69	-25.00	-38.77
250.19	-63.39	-59.58	-1.58	-2.23	-25.00	-38.39
282.20	-66.18	-62.08	-1.67	-2.43	-25.00	-41.18
5120.00	-49.96	-50.66	12.44	-11.74	-25.00	-24.96

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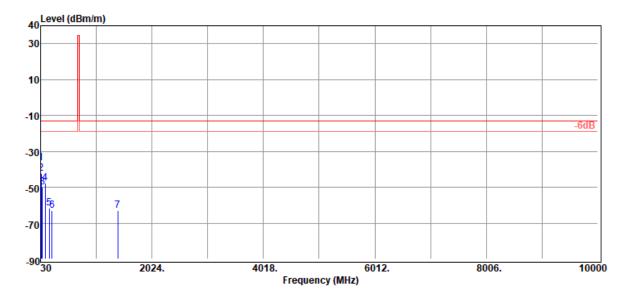
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Radiated Spurious Emission Measurement Result: LTE Band 12 Mode

Report Number	:E2/2019/A0029	Test Date	:2019-11-21
Operation Mode	:LTE B12	Temp./Humi.	:23.5/57
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:704 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
34.85	-36.55	-16.05	-19.77	-0.73	-13.00	-23.55
41.64	-42.45	-22.67	-18.92	-0.86	-13.00	-29.45
62.98	-50.13	-34.87	-14.26	-1.00	-13.00	-37.13
115.36	-47.88	-39.29	-7.14	-1.45	-13.00	-34.88
183.26	-61.45	-55.82	-3.85	-1.78	-13.00	-48.45
234.67	-62.80	-58.89	-1.70	-2.21	-13.00	-49.80
1408.00	-63.13	-63.66	7.06	-6.53	-13.00	-50.13

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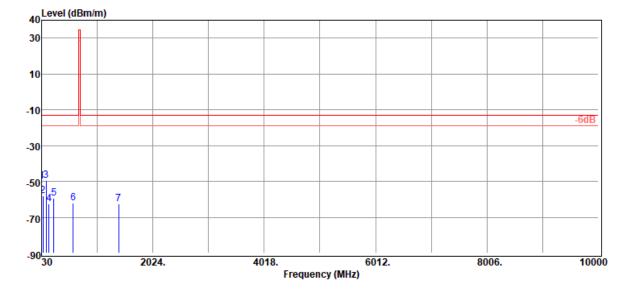
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B12
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:704 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
36.79	-49.80	-29.59	-19.43	-0.78	-13.00	-36.80
55.22	-57.91	-40.50	-16.48	-0.93	-13.00	-44.91
116.33	-49.40	-40.82	-7.13	-1.45	-13.00	-36.40
164.83	-62.38	-54.07	-6.60	-1.71	-13.00	-49.38
249.22	-59.29	-55.45	-1.61	-2.23	-13.00	-46.29
593.57	-61.95	-56.61	-1.51	-3.83	-13.00	-48.95
1408.00	-62.78	-63.31	7.06	-6.53	-13.00	-49.78

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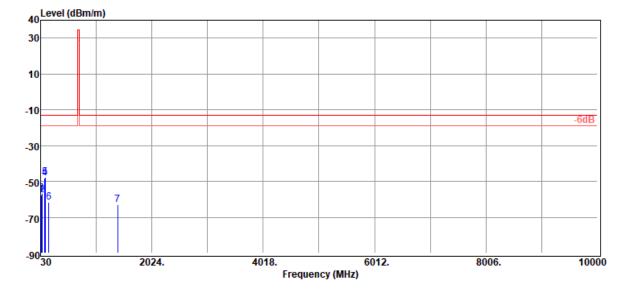
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B12
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:707.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
35.82	-57.68	-37.28	-19.64	-0.76	-13.00	-44.68
44.55	-57.71	-38.34	-18.51	-0.86	-13.00	-44.71
55.22	-56.63	-39.22	-16.48	-0.93	-13.00	-43.63
104.69	-48.25	-40.08	-6.78	-1.39	-13.00	-35.25
116.33	-47.88	-39.30	-7.13	-1.45	-13.00	-34.88
181.32	-61.86	-55.96	-4.14	-1.76	-13.00	-48.86
1415.00	-62.82	-63.39	7.12	-6.55	-13.00	-49.82

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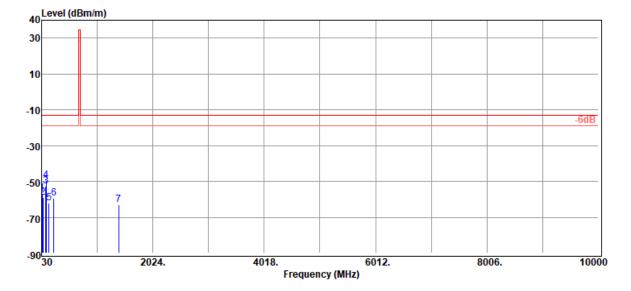
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B12
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:707.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
40.67	-56.90	-37.02	-19.02	-0.86	-13.00	-43.90
55.22	-59.18	-41.77	-16.48	-0.93	-13.00	-46.18
104.69	-52.56	-44.39	-6.78	-1.39	-13.00	-39.56
116.33	-49.72	-41.14	-7.13	-1.45	-13.00	-36.72
164.83	-62.25	-53.94	-6.60	-1.71	-13.00	-49.25
250.19	-59.61	-55.80	-1.58	-2.23	-13.00	-46.61
1415.00	-63.02	-63.59	7.12	-6.55	-13.00	-50.02

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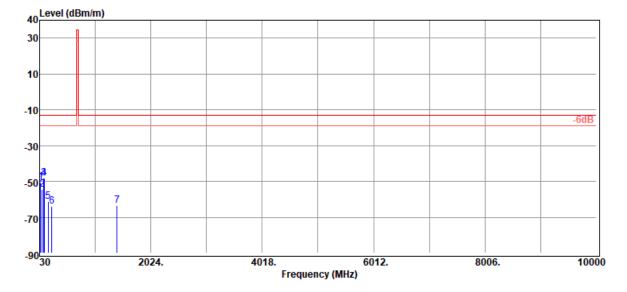
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:E2/2019/A0029
:LTE B12
:TX CH HIGH
:E2 Plan
:711 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
46.49	-50.52	-31.37	-18.29	-0.86	-13.00	-37.52
79.47	-54.38	-44.69	-8.54	-1.15	-13.00	-41.38
104.69	-48.35	-40.18	-6.78	-1.39	-13.00	-35.35
116.33	-48.05	-39.47	-7.13	-1.45	-13.00	-35.05
183.26	-61.01	-55.38	-3.85	-1.78	-13.00	-48.01
252.13	-63.84	-60.05	-1.55	-2.24	-13.00	-50.84
1422.00	-63.31	-63.93	7.18	-6.56	-13.00	-50.31

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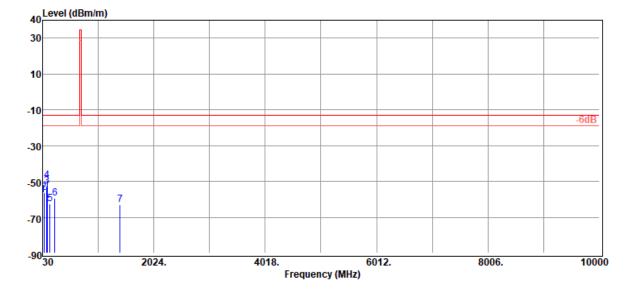
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B12
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:711 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
35.82	-57.44	-37.04	-19.64	-0.76	-13.00	-44.44
55.22	-56.23	-38.82	-16.48	-0.93	-13.00	-43.23
103.72	-52.86	-44.85	-6.64	-1.37	-13.00	-39.86
115.36	-49.50	-40.91	-7.14	-1.45	-13.00	-36.50
163.86	-62.48	-54.12	-6.66	-1.70	-13.00	-49.48
250.19	-59.33	-55.52	-1.58	-2.23	-13.00	-46.33
1422.00	-63.20	-63.82	7.18	-6.56	-13.00	-50.20

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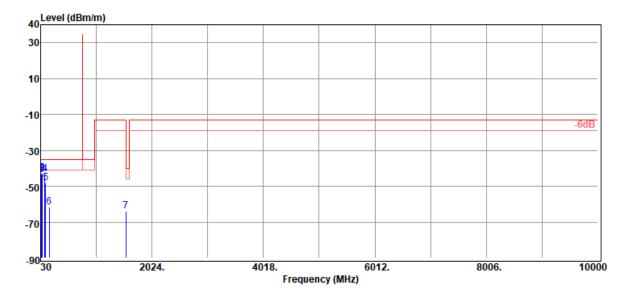
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Radiated Spurious Emission Measurement Result: LTE Band 13 Mode

Report Number	:E2/2019/A0029	Test Date	:2019-11-21
Operation Mode	:LTE B13	Temp./Humi.	:23.5/57
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Frequency	:779.5 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
37.76	-43.66	-23.51	-19.35	-0.80	-35.00	-8.66
45.52	-43.00	-23.76	-18.38	-0.86	-35.00	-8.00
65.89	-42.64	-28.34	-13.30	-1.00	-35.00	-7.64
104.69	-43.06	-34.89	-6.78	-1.39	-35.00	-8.06
118.27	-47.95	-39.42	-7.08	-1.45	-35.00	-12.95
184.23	-61.59	-56.09	-3.71	-1.79	-35.00	-26.59
1559.00	-63.87	-65.56	8.69	-7.00	-40.00	-23.87

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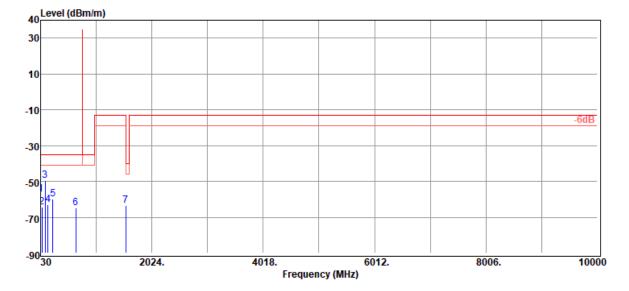
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B13
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Frequency	:779.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
36.79	-57.12	-36.91	-19.43	-0.78	-35.00	-22.12
56.19	-64.30	-47.10	-16.25	-0.95	-35.00	-29.30
116.33	-49.64	-41.06	-7.13	-1.45	-35.00	-14.64
164.83	-62.98	-54.67	-6.60	-1.71	-35.00	-27.98
249.22	-59.94	-56.10	-1.61	-2.23	-35.00	-24.94
661.47	-64.85	-59.81	-1.23	-3.81	-35.00	-29.85
1559.00	-63.54	-65.23	8.69	-7.00	-40.00	-23.54

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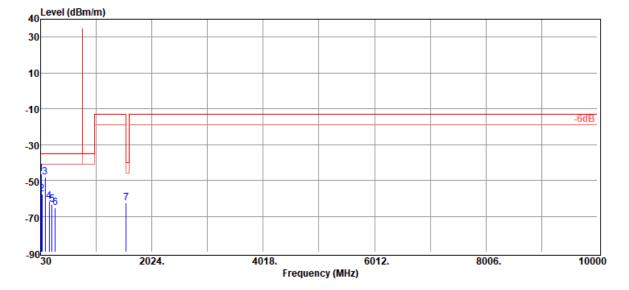
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B13
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Frequency	:782 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
40.67	-46.46	-26.58	-19.02	-0.86	-35.00	-11.46
55.22	-57.64	-40.23	-16.48	-0.93	-35.00	-22.64
116.33	-48.04	-39.46	-7.13	-1.45	-35.00	-13.04
182.29	-61.49	-55.72	-4.00	-1.77	-35.00	-26.49
237.58	-63.26	-59.26	-1.78	-2.22	-35.00	-28.26
289.96	-65.25	-61.05	-1.69	-2.51	-35.00	-30.25
1564.00	-62.67	-64.38	8.74	-7.03	-40.00	-22.67

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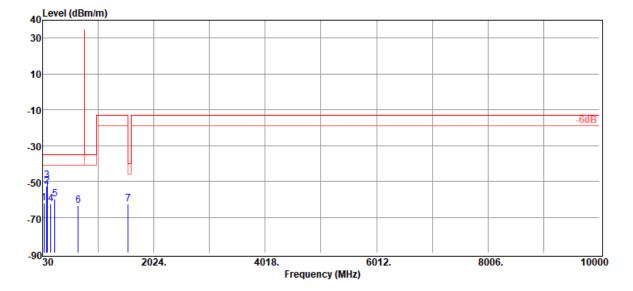
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B13
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Frequency	:782 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
55.22	-62.02	-44.61	-16.48	-0.93	-35.00	-27.02
103.72	-52.78	-44.77	-6.64	-1.37	-35.00	-17.78
116.33	-49.38	-40.80	-7.13	-1.45	-35.00	-14.38
179.38	-62.74	-56.48	-4.52	-1.74	-35.00	-27.74
250.19	-59.75	-55.94	-1.58	-2.23	-35.00	-24.75
665.35	-63.42	-58.36	-1.18	-3.88	-35.00	-28.42
1564.00	-62.75	-64.46	8.74	-7.03	-40.00	-22.75

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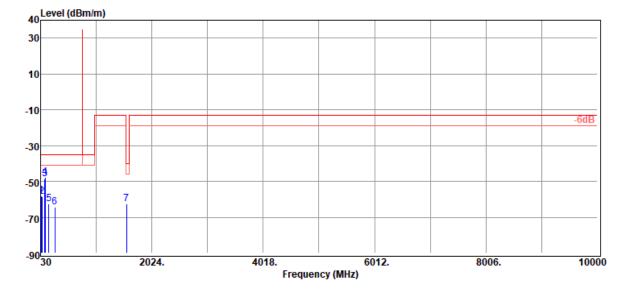
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:E2/2019/A0029
:LTE B13
:TX CH HIGH
:E2 Plan
:784.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
38.73	-58.17	-38.09	-19.25	-0.83	-35.00	-23.17
56.19	-58.69	-41.49	-16.25	-0.95	-35.00	-23.69
104.69	-48.44	-40.27	-6.78	-1.39	-35.00	-13.44
116.33	-47.87	-39.29	-7.13	-1.45	-35.00	-12.87
180.35	-62.48	-56.39	-4.35	-1.74	-35.00	-27.48
287.05	-64.18	-60.04	-1.66	-2.48	-35.00	-29.18
1569.00	-62.34	-64.08	8.79	-7.05	-40.00	-22.34

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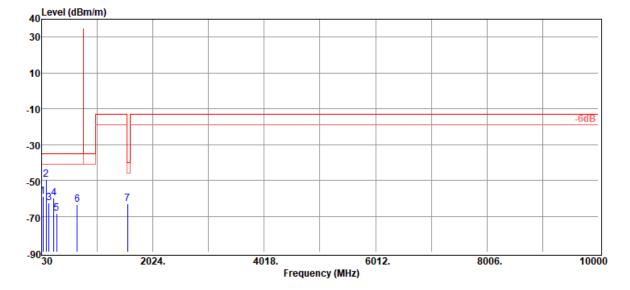
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:E2/2019/A0029
:LTE B13
:TX CH HIGH
:E2 Plan
:784.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
55.22	-58.78	-41.37	-16.48	-0.93	-35.00	-23.78
115.36	-49.62	-41.03	-7.14	-1.45	-35.00	-14.62
162.89	-62.60	-54.09	-6.81	-1.70	-35.00	-27.60
252.13	-59.77	-55.98	-1.55	-2.24	-35.00	-24.77
301.60	-68.46	-64.43	-1.48	-2.55	-35.00	-33.46
666.32	-63.46	-58.37	-1.19	-3.90	-35.00	-28.46
1569.00	-63.16	-64.90	8.79	-7.05	-40.00	-23.16

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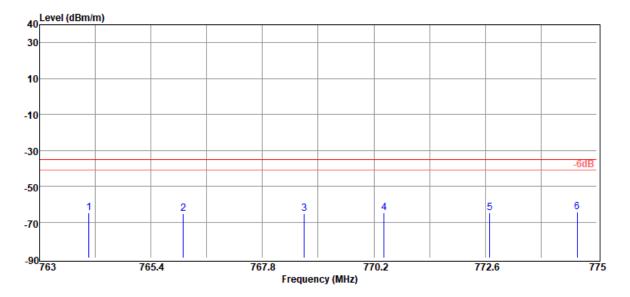
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Radiated Spurious Emission Measurement Result: LTE Band 13 Mode (763-775MHz)

Report Number	:E2/2019/A0029	Test Date	:2020-05-19
Operation Mode	:LTE B13	Temp./Humi.	:24.8/57
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Ashton
Test Frequency	:779.5 MHz		



Cable **EIRP/ERP** SG Freq. Antenna Limit Margin **Output Level** Gain Loss MHz dBm dBi/dBd dB dBm dB dBm 764.07 -64.86 -58.91 -1.68 -4.27 -35.00 -29.86 766.10 -65.17 -59.24 -4.27 -35.00 -30.17 -1.66 -4.27 768.70 -65.48-59.58-1.63 -35.00-30.48770.42 -64.80 -58.90 -4.29 -35.00 -29.80 -1.61 772.70 -64.79-58.84 -1.58 -4.37-35.00 -29.79774.58 -64.52 -58.52 -4.44 -35.00 -29.52 -1.56

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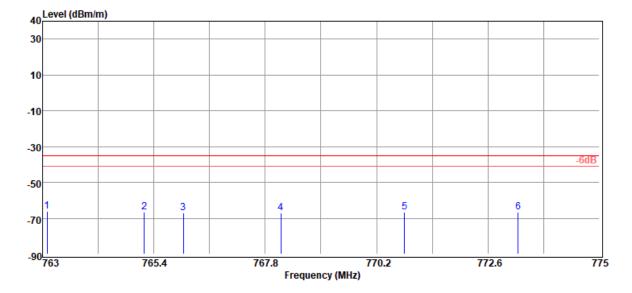
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B13
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Frequency	:779.5 MHz

Test Date	:2020-05-19
Temp./Humi.	:24.8/57
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
763.10	-65.95	-59.99	-1.69	-4.27	-35.00	-30.95
765.20	-66.72	-60.78	-1.67	-4.27	-35.00	-31.72
766.04	-66.93	-61.00	-1.66	-4.27	-35.00	-31.93
768.14	-67.03	-61.13	-1.63	-4.27	-35.00	-32.03
770.80	-66.40	-60.50	-1.60	-4.30	-35.00	-31.40
773.25	-66.75	-60.79	-1.57	-4.39	-35.00	-31.75

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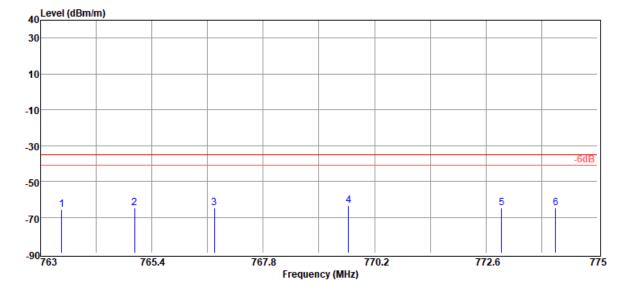
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:E2/2019/A0029
:LTE B13
:TX CH MID
:E2 Plan
:782 MHz

Test Date	:2020-05-19
Temp./Humi.	:24.8/57
Antenna Pol.	:VERTICAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
763.46	-65.59	-59.63	-1.69	-4.27	-35.00	-30.59
765.03	-64.69	-58.75	-1.67	-4.27	-35.00	-29.69
766.74	-65.03	-59.11	-1.65	-4.27	-35.00	-30.03
769.64	-63.45	-57.57	-1.61	-4.27	-35.00	-28.45
772.94	-64.92	-58.97	-1.57	-4.38	-35.00	-29.92
774.10	-64.66	-58.68	-1.56	-4.42	-35.00	-29.66

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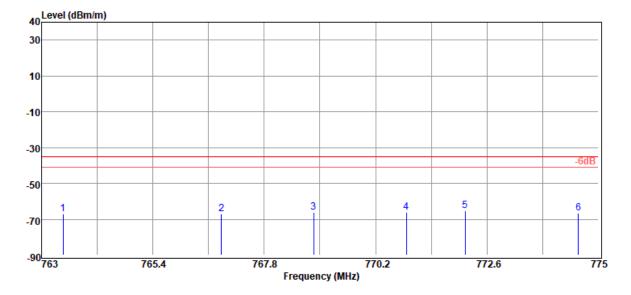
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B13
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Frequency	:782 MHz

Test Date	:2020-05-19
Temp./Humi.	:24.8/57
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
763.47	-66.86	-60.90	-1.69	-4.27	-35.00	-31.86
766.88	-66.92	-61.00	-1.65	-4.27	-35.00	-31.92
768.87	-65.94	-60.05	-1.62	-4.27	-35.00	-30.94
770.86	-66.18	-60.28	-1.60	-4.30	-35.00	-31.18
772.13	-65.33	-59.40	-1.58	-4.35	-35.00	-30.33
774.57	-66.39	-60.39	-1.56	-4.44	-35.00	-31.39

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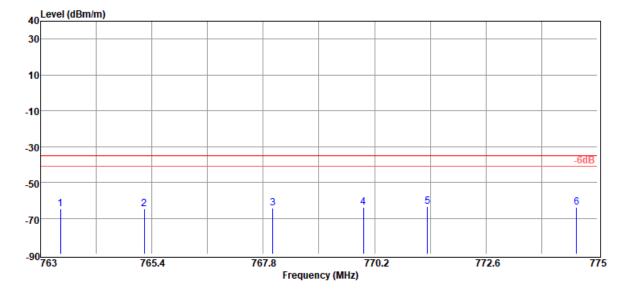
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Frequency	:484.5 MHz

Test Date	:2020-05-19
Temp./Humi.	:24.8/57
Antenna Pol.	:VERTICAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
763.43	-64.82	-58.86	-1.69	-4.27	-35.00	-29.82
765.23	-64.71	-58.77	-1.67	-4.27	-35.00	-29.71
768.00	-64.20	-58.30	-1.63	-4.27	-35.00	-29.20
769.96	-64.05	-58.17	-1.61	-4.27	-35.00	-29.05
771.34	-63.55	-57.64	-1.59	-4.32	-35.00	-28.55
774.56	-63.82	-57.82	-1.56	-4.44	-35.00	-28.82

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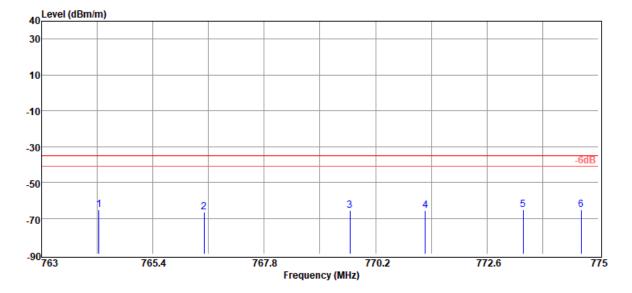
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Frequency	:484.5 MHz
rest Frequency	.404.0 IVITIZ

Test Date	:2020-05-19
Temp./Humi.	:24.8/57
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
764.24	-65.48	-59.53	-1.68	-4.27	-35.00	-30.48
766.50	-66.47	-60.55	-1.65	-4.27	-35.00	-31.47
769.65	-65.90	-60.02	-1.61	-4.27	-35.00	-30.90
771.27	-65.54	-59.63	-1.59	-4.32	-35.00	-30.54
773.38	-65.48	-59.51	-1.57	-4.40	-35.00	-30.48
774.63	-65.43	-59.44	-1.55	-4.44	-35.00	-30.43

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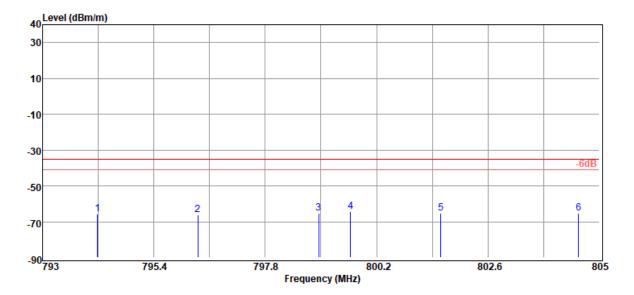
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Radiated Spurious Emission Measurement Result: LTE Band 13 Mode (793-805MHz)

Report Number	:E2/2019/A0029	Test Date	:2020-05-19
Operation Mode	:LTE B13	Temp./Humi.	:24.6/56
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Ashton
Test Frequency	:779.5 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
794.19	-65.93	-59.75	-1.72	-4.46	-35.00	-30.93
796.35	-66.07	-60.01	-1.69	-4.37	-35.00	-31.07
798.95	-65.33	-59.46	-1.61	-4.26	-35.00	-30.33
799.64	-64.39	-58.56	-1.59	-4.24	-35.00	-29.39
801.58	-65.19	-59.41	-1.56	-4.22	-35.00	-30.19
804.56	-65.39	-59.64	-1.53	-4.22	-35.00	-30.39

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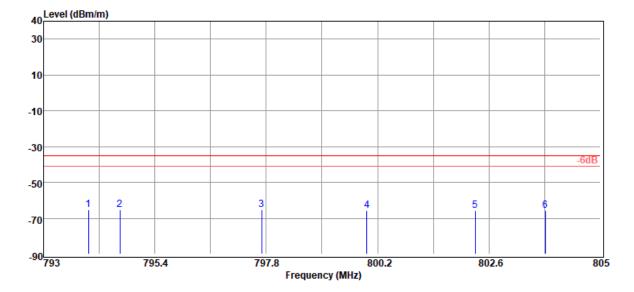
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:E2/2019/A0029
:LTE B13
:TX CH LOW
:E2 Plan
:779.5 MHz

Test Date	:2020-05-19
Temp./Humi.	:24.6/56
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
793.97	-65.30	-59.11	-1.72	-4.47	-35.00	-30.30
794.64	-65.42	-59.25	-1.73	-4.44	-35.00	-30.42
797.70	-65.28	-59.31	-1.65	-4.32	-35.00	-30.28
799.97	-65.92	-60.12	-1.58	-4.22	-35.00	-30.92
802.30	-65.84	-60.07	-1.55	-4.22	-35.00	-30.84
803.81	-65.68	-59.93	-1.53	-4.22	-35.00	-30.68

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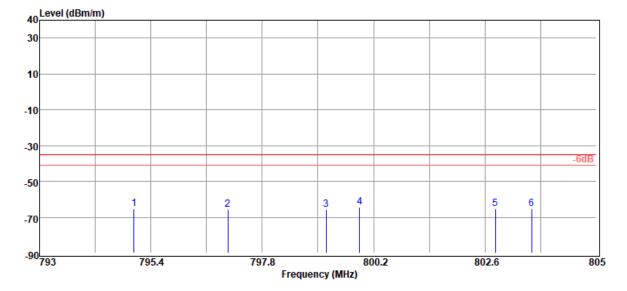
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B13
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Frequency	:782 MHz

Test Date	:2020-05-19
Temp./Humi.	:24.6/56
Antenna Pol.	:VERTICAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
795.04	-65.14	-58.98	-1.73	-4.43	-35.00	-30.14
797.06	-65.93	-59.92	-1.67	-4.34	-35.00	-30.93
799.18	-65.75	-59.90	-1.60	-4.25	-35.00	-30.75
799.90	-64.44	-58.64	-1.58	-4.22	-35.00	-29.44
802.83	-65.19	-59.42	-1.55	-4.22	-35.00	-30.19
803.61	-65.12	-59.36	-1.54	-4.22	-35.00	-30.12

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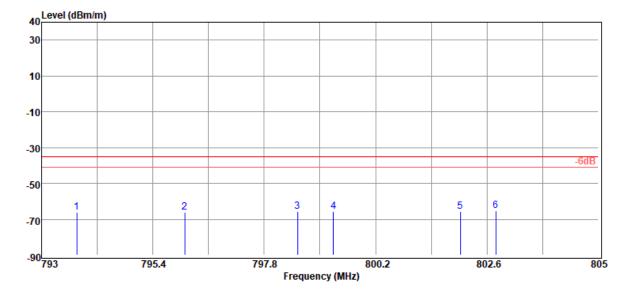
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:E2/2019/A0029
:LTE B13
:TX CH MID
:E2 Plan
:782 MHz

Test Date	:2020-05-19
Temp./Humi.	:24.6/56
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
793.76	-66.00	-59.80	-1.72	-4.48	-35.00	-31.00
796.08	-66.06	-59.98	-1.70	-4.38	-35.00	-31.06
798.52	-65.60	-59.70	-1.62	-4.28	-35.00	-30.60
799.29	-65.69	-59.84	-1.60	-4.25	-35.00	-30.69
802.02	-65.64	-59.86	-1.56	-4.22	-35.00	-30.64
802.79	-65.42	-59.65	-1.55	-4.22	-35.00	-30.42

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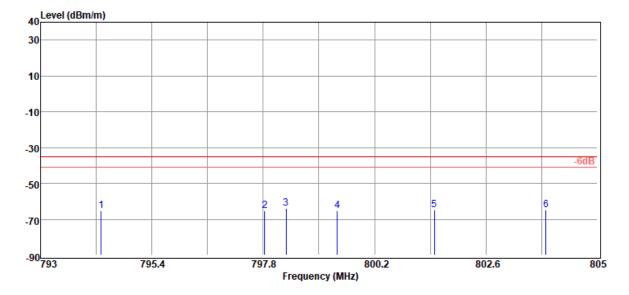
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Frequency	:784.5 MHz

Test Date	:2020-05-19
Temp./Humi.	:24.6/56
Antenna Pol.	:VERTICAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
794.31	-65.28	-59.10	-1.72	-4.46	-35.00	-30.28
797.84	-65.35	-59.40	-1.64	-4.31	-35.00	-30.35
798.29	-64.03	-58.11	-1.63	-4.29	-35.00	-29.03
799.40	-65.13	-59.28	-1.60	-4.25	-35.00	-30.13
801.48	-64.85	-59.07	-1.56	-4.22	-35.00	-29.85
803.90	-64.81	-59.06	-1.53	-4.22	-35.00	-29.81

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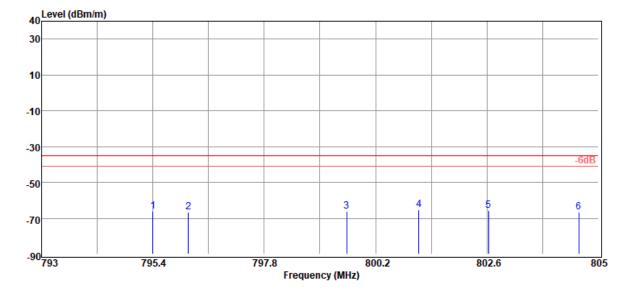
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:E2/2019/A0029
:LTE B13
:TX CH HIGH
:E2 Plan
:784.5 MHz

Test Date	:2020-05-19
Temp./Humi.	:24.6/56
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
795.40	-66.36	-60.23	-1.72	-4.41	-35.00	-31.36
796.17	-66.42	-60.35	-1.69	-4.38	-35.00	-31.42
799.58	-66.01	-60.18	-1.59	-4.24	-35.00	-31.01
801.14	-65.34	-59.55	-1.57	-4.22	-35.00	-30.34
802.64	-65.52	-59.75	-1.55	-4.22	-35.00	-30.52
804.58	-66.63	-60.88	-1.53	-4.22	-35.00	-31.63

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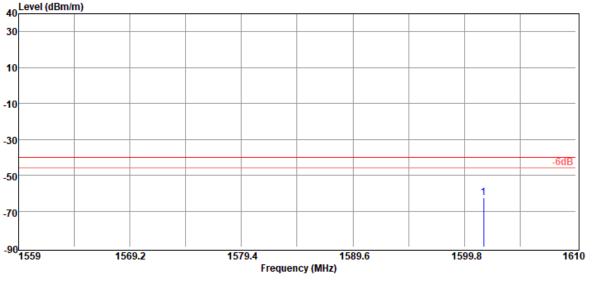
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Radiated Spurious Emission Measurement Result: LTE Band 13 Mode (1559-1610MHz)

Report Number	:E2/2019/A0029	Test Date	:2019-11-21
Operation Mode	:LTE B13	Temp./Humi.	:23.5/57
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:779.5 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
1601.59	-62.38	-64.27	9.11	-7.22	-40.00	-22.38

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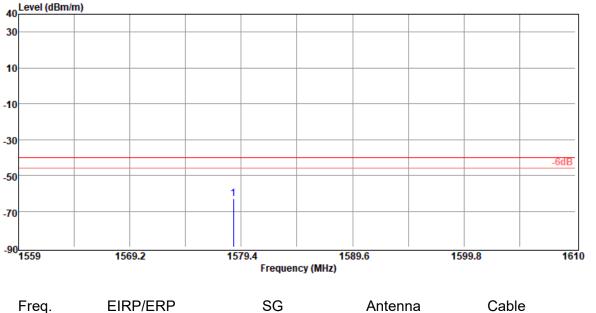
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B13
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:779.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
1578.69	-62.99	-64.78	8.89	-7.10	-40.00	-22.99

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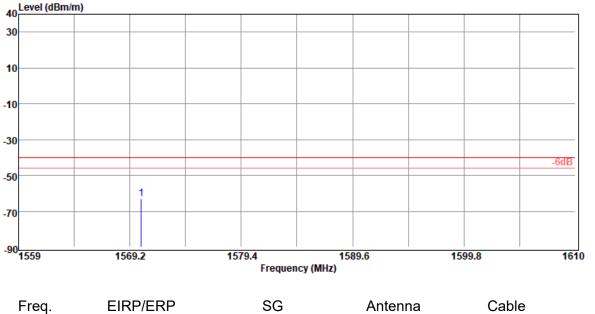
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Limit

Morain

Report Number	:E2/2019/A0029
Operation Mode	:LTE B13
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:782 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Gain	Loss	Limit	wargin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
1570.00	62 10	64.96	0 00	7.06	40.00	02.40
1570.22	-63.12	-64.86	8.80	-7.06	-40.00	-23.12

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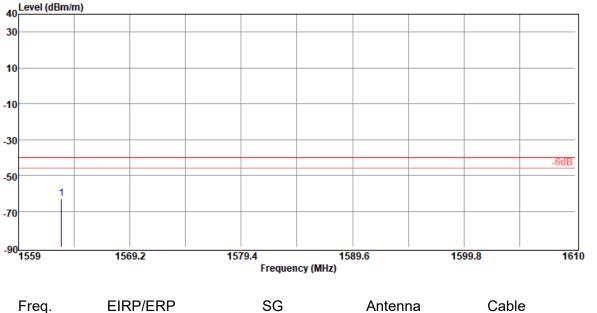
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B13
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:782 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
1562.93	-62.96	-64.67	8.73	-7.02	-40.00	-22.96

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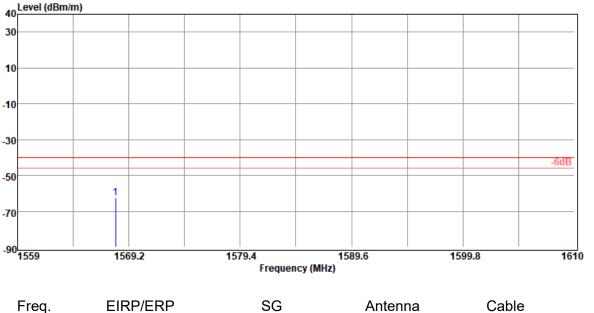


Limit

Morain

Report Number	:E2/2019/A0029
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:784.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	Output Level	Gain	Loss	Limit	wargin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
4567.00	62.50	64.22	0.70	7.05	40.00	22 50
1567.98	-62.59	-64.32	8.78	-7.05	-40.00	-22.59

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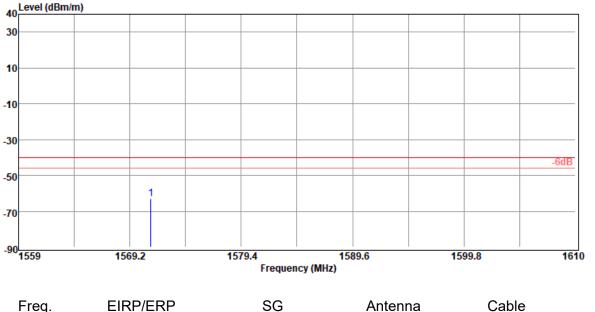
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B13
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:784.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
1571.14	-63.11	-64.86	8.81	-7.06	-40.00	-23.11

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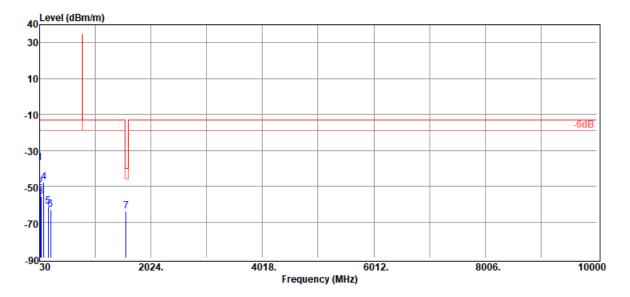
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Radiated Spurious Emission Measurement Result: LTE Band 14 Mode

Report Number	:E2/2019/A0029	Test Date	:2019-11-21
Operation Mode	:LTE B14	Temp./Humi.	:23.5/57
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:790.5 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
35.82	-36.78	-16.38	-19.64	-0.76	-13.00	-23.78
43.58	-50.99	-31.42	-18.71	-0.86	-13.00	-37.99
55.22	-55.93	-38.52	-16.48	-0.93	-13.00	-42.93
104.69	-47.67	-39.50	-6.78	-1.39	-13.00	-34.67
183.26	-61.13	-55.50	-3.85	-1.78	-13.00	-48.13
228.85	-62.96	-59.41	-1.36	-2.19	-13.00	-49.96
1581.00	-63.81	-65.61	8.91	-7.11	-40.00	-23.81

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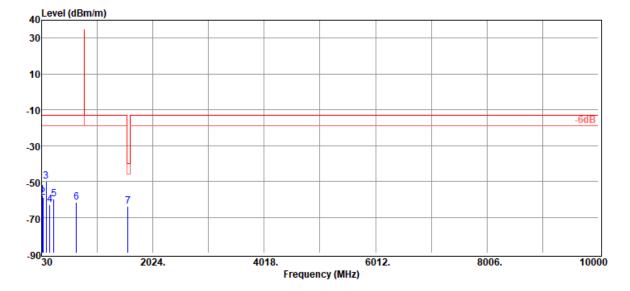
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B14
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:790.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
40.67	-57.60	-37.72	-19.02	-0.86	-13.00	-44.60
55.22	-58.74	-41.33	-16.48	-0.93	-13.00	-45.74
115.36	-49.81	-41.22	-7.14	-1.45	-13.00	-36.81
177.44	-62.88	-56.27	-4.87	-1.74	-13.00	-49.88
249.22	-59.79	-55.95	-1.61	-2.23	-13.00	-46.79
657.59	-61.73	-56.61	-1.33	-3.79	-13.00	-48.73
1581.00	-63.78	-65.58	8.91	-7.11	-40.00	-23.78

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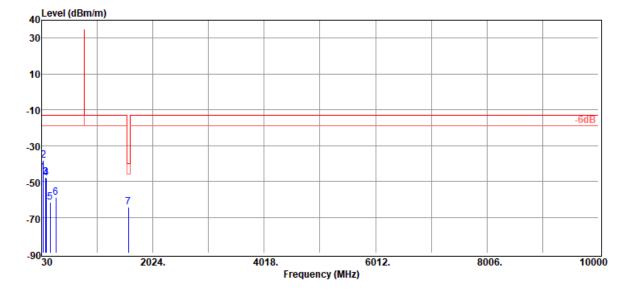
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B14
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:793 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
56.19	-45.08	-27.88	-16.25	-0.95	-13.00	-32.08
63.95	-38.33	-23.30	-14.03	-1.00	-13.00	-25.33
104.69	-47.68	-39.51	-6.78	-1.39	-13.00	-34.68
116.33	-48.30	-39.72	-7.13	-1.45	-13.00	-35.30
185.20	-61.72	-56.34	-3.57	-1.81	-13.00	-48.72
288.99	-59.10	-54.92	-1.68	-2.50	-13.00	-46.10
1586.00	-64.39	-66.21	8.96	-7.14	-40.00	-24.39

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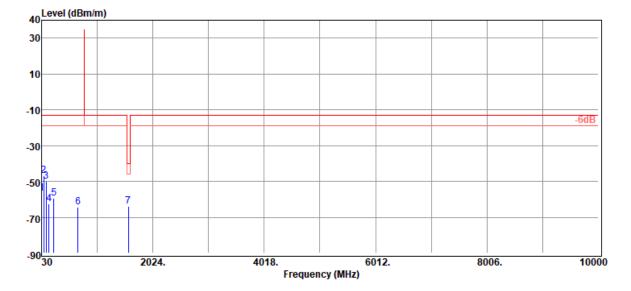
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B14
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:793 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
30.00	-56.77	-35.26	-20.90	-0.61	-13.00	-43.77
66.86	-46.88	-32.83	-13.05	-1.00	-13.00	-33.88
116.33	-49.86	-41.28	-7.13	-1.45	-13.00	-36.86
164.83	-62.36	-54.05	-6.60	-1.71	-13.00	-49.36
251.16	-59.46	-55.67	-1.56	-2.23	-13.00	-46.46
679.90	-64.16	-58.91	-1.29	-3.96	-13.00	-51.16
1586.00	-63.87	-65.69	8.96	-7.14	-40.00	-23.87

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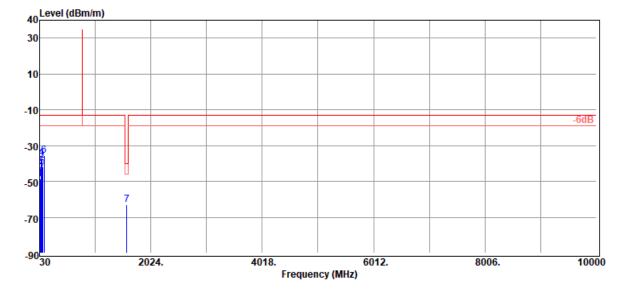
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B14
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:795.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
42.61	-48.50	-28.83	-18.81	-0.86	-13.00	-35.50
55.22	-45.37	-27.96	-16.48	-0.93	-13.00	-32.37
62.98	-37.90	-22.64	-14.26	-1.00	-13.00	-24.90
69.77	-37.04	-23.93	-12.11	-1.00	-13.00	-24.04
82.38	-41.90	-33.06	-7.68	-1.16	-13.00	-28.90
110.51	-35.60	-27.13	-7.02	-1.45	-13.00	-22.60
1591.00	-63.13	-64.98	9.01	-7.16	-40.00	-23.13

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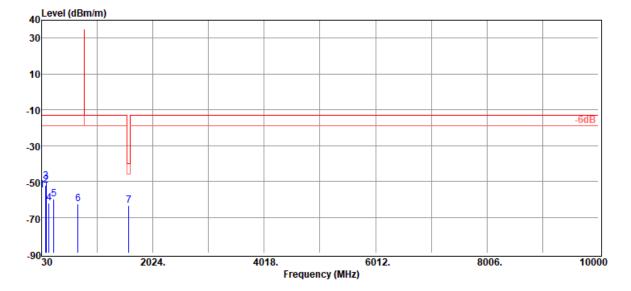
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B14
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:795.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
30.97	-54.84	-33.59	-20.62	-0.63	-13.00	-41.84
104.69	-52.13	-43.96	-6.78	-1.39	-13.00	-39.13
116.33	-49.84	-41.26	-7.13	-1.45	-13.00	-36.84
164.83	-62.21	-53.90	-6.60	-1.71	-13.00	-49.21
251.16	-59.81	-56.02	-1.56	-2.23	-13.00	-46.81
680.87	-62.78	-57.48	-1.31	-3.99	-13.00	-49.78
1591.00	-63.39	-65.24	9.01	-7.16	-40.00	-23.39

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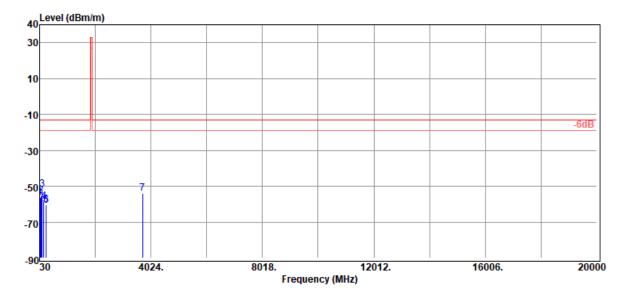
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Radiated Spurious Emission Measurement Result: LTE Band 25 Mode

Report Number	:E2/2019/A0029	Test Date	:2019-12-06
Operation Mode	:LTE B25	Temp./Humi.	:24.2/48
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Ashton
Test Channel	:1860 MHz		



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
57.16	-56.42	-39.40	-16.06	-0.96	-13.00	-43.42
76.56	-55.20	-44.61	-9.49	-1.10	-13.00	-42.20
119.24	-51.71	-43.22	-7.04	-1.45	-13.00	-38.71
183.26	-58.72	-53.09	-3.85	-1.78	-13.00	-45.72
250.19	-60.42	-56.61	-1.58	-2.23	-13.00	-47.42
261.83	-60.54	-56.72	-1.55	-2.27	-13.00	-47.54
3720.00	-54.16	-55.25	12.34	-11.25	-13.00	-41.16

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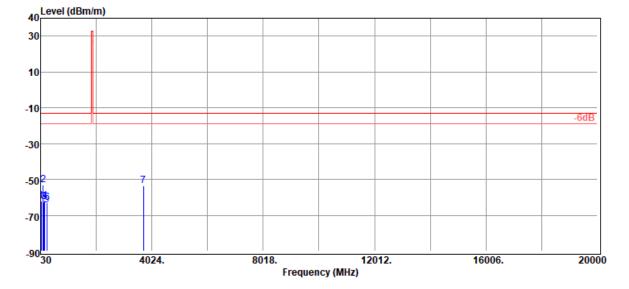
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B25
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:1860 MHz

Test Date	:2019-12-06
Temp./Humi.	:24.2/48
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
57.16	-62.23	-45.21	-16.06	-0.96	-13.00	-49.23
118.27	-52.96	-44.43	-7.08	-1.45	-13.00	-39.96
154.16	-62.53	-53.65	-7.20	-1.68	-13.00	-49.53
184.23	-62.03	-56.53	-3.71	-1.79	-13.00	-49.03
248.25	-64.56	-60.69	-1.64	-2.23	-13.00	-51.56
263.77	-63.21	-59.37	-1.57	-2.27	-13.00	-50.21
3720.00	-53.66	-54.75	12.34	-11.25	-13.00	-40.66

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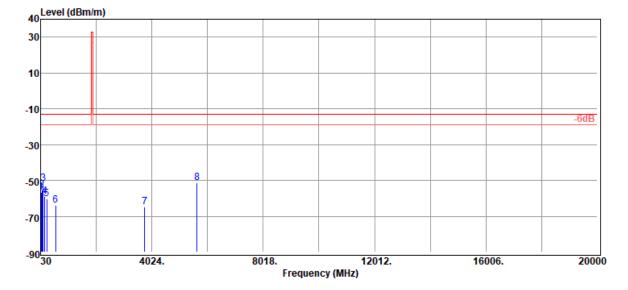
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:E2/2019/A0029
:LTE B25
:TX CH MID
:E2 Plan
:1882.5 MHz

Test Date	:2019-12-06
Temp./Humi.	:24.4/47
Antenna Pol.	:VERTICAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
56.19	-56.57	-39.37	-16.25	-0.95	-13.00	-43.57
76.56	-55.42	-44.83	-9.49	-1.10	-13.00	-42.42
119.24	-51.72	-43.23	-7.04	-1.45	-13.00	-38.72
185.20	-58.93	-53.55	-3.57	-1.81	-13.00	-45.93
252.13	-60.38	-56.59	-1.55	-2.24	-13.00	-47.38
575.14	-63.86	-58.81	-1.45	-3.60	-13.00	-50.86
3765.00	-64.80	-66.17	12.43	-11.06	-13.00	-51.80
5647.50	-51.16	-53.07	13.50	-11.59	-13.00	-38.16

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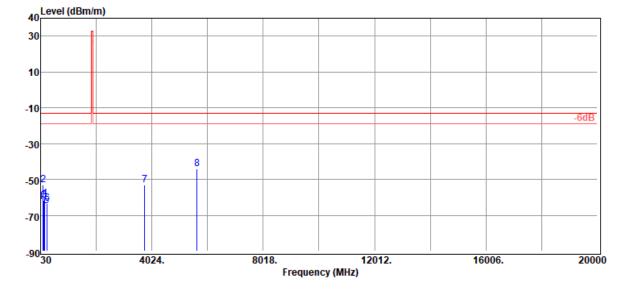
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B25
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1882.5 MHz

Test Date	:2019-12-06
Temp./Humi.	:24.4/47
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
37.76	-62.52	-42.37	-19.35	-0.80	-13.00	-49.52
119.24	-53.23	-44.74	-7.04	-1.45	-13.00	-40.23
152.22	-61.88	-52.91	-7.29	-1.68	-13.00	-48.88
183.26	-60.92	-55.29	-3.85	-1.78	-13.00	-47.92
248.25	-64.77	-60.90	-1.64	-2.23	-13.00	-51.77
266.68	-63.41	-59.55	-1.59	-2.27	-13.00	-50.41
3765.00	-53.12	-54.49	12.43	-11.06	-13.00	-40.12
5647.50	-44.05	-45.96	13.50	-11.59	-13.00	-31.05

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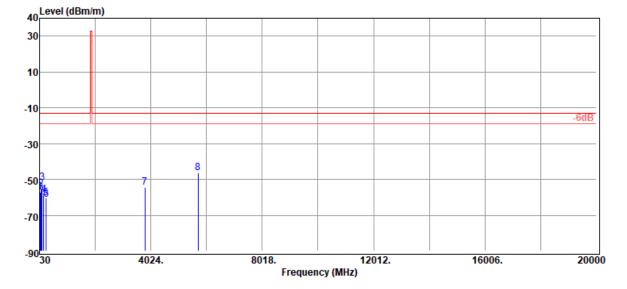
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:E2/2019/A0029
:LTE B25
:TX CH HIGH
:E2 Plan
:1905 MHz

Test Date	:2019-12-06
Temp./Humi.	:24.5/47
Antenna Pol.	:VERTICAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
56.19	-57.04	-39.84	-16.25	-0.95	-13.00	-44.04
76.56	-55.26	-44.67	-9.49	-1.10	-13.00	-42.26
119.24	-51.60	-43.11	-7.04	-1.45	-13.00	-38.60
187.14	-58.61	-53.50	-3.28	-1.83	-13.00	-45.61
251.16	-60.50	-56.71	-1.56	-2.23	-13.00	-47.50
261.83	-61.18	-57.36	-1.55	-2.27	-13.00	-48.18
3810.00	-54.54	-56.14	12.50	-10.90	-13.00	-41.54
5715.00	-46.54	-48.20	13.37	-11.71	-13.00	-33.54

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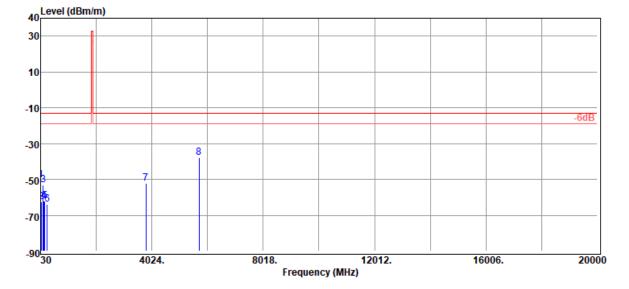
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:E2/2019/A0029
:LTE B25
:TX CH HIGH
:E2 Plan
:1905 MHz

Test Date	:2019-12-06
Temp./Humi.	:24.5/47
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
35.82	-50.20	-29.80	-19.64	-0.76	-13.00	-37.20
55.22	-62.62	-45.21	-16.48	-0.93	-13.00	-49.62
119.24	-53.16	-44.67	-7.04	-1.45	-13.00	-40.16
155.13	-62.14	-53.25	-7.21	-1.68	-13.00	-49.14
182.29	-62.07	-56.30	-4.00	-1.77	-13.00	-49.07
266.68	-63.93	-60.07	-1.59	-2.27	-13.00	-50.93
3810.00	-52.39	-53.99	12.50	-10.90	-13.00	-39.39
5715.00	-37.92	-39.58	13.37	-11.71	-13.00	-24.92

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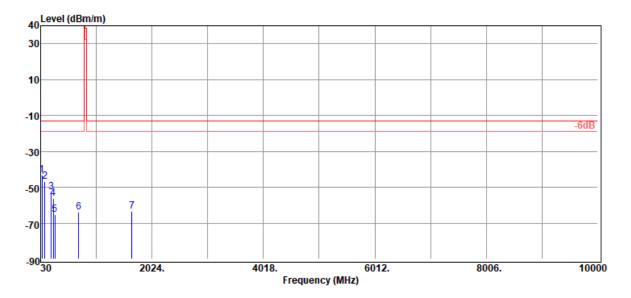
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Radiated Spurious Emission Measurement Result: LTE Band 26 Mode

Report Number	:E2/2019/A0029	Test Date	:2019-11-21
Operation Mode	:LTE B26	Temp./Humi.	:23.5/57
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:831.5 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
55.22	-43.13	-25.72	-16.48	-0.93	-13.00	-30.13
104.69	-46.65	-38.48	-6.78	-1.39	-13.00	-33.65
220.12	-52.78	-49.30	-1.29	-2.19	-13.00	-39.78
256.98	-56.19	-52.41	-1.52	-2.26	-13.00	-43.19
286.08	-65.10	-60.98	-1.65	-2.47	-13.00	-52.10
711.91	-63.92	-58.69	-1.33	-3.90	-13.00	-50.92
1663.00	-63.31	-65.13	9.43	-7.61	-13.00	-50.31

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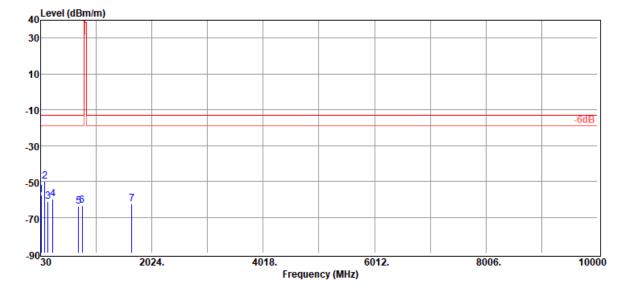
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B26
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:831.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
40.67	-57.71	-37.83	-19.02	-0.86	-13.00	-44.71
103.72	-50.15	-42.14	-6.64	-1.37	-13.00	-37.15
166.77	-61.27	-53.05	-6.50	-1.72	-13.00	-48.27
250.19	-60.00	-56.19	-1.58	-2.23	-13.00	-47.00
711.91	-64.10	-58.87	-1.33	-3.90	-13.00	-51.10
775.93	-63.68	-57.63	-1.56	-4.49	-13.00	-50.68
1663.00	-62.77	-64.59	9.43	-7.61	-13.00	-49.77

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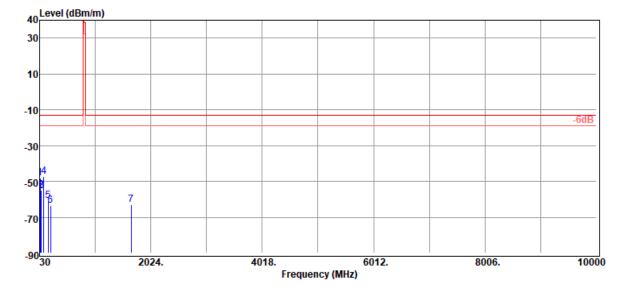
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B26
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:836.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
38.73	-48.33	-28.25	-19.25	-0.83	-13.00	-35.33
56.19	-55.54	-38.34	-16.25	-0.95	-13.00	-42.54
65.89	-54.78	-40.48	-13.30	-1.00	-13.00	-41.78
103.72	-47.06	-39.05	-6.64	-1.37	-13.00	-34.06
183.26	-60.76	-55.13	-3.85	-1.78	-13.00	-47.76
231.76	-63.52	-59.80	-1.52	-2.20	-13.00	-50.52
1673.00	-63.16	-65.01	9.53	-7.68	-13.00	-50.16

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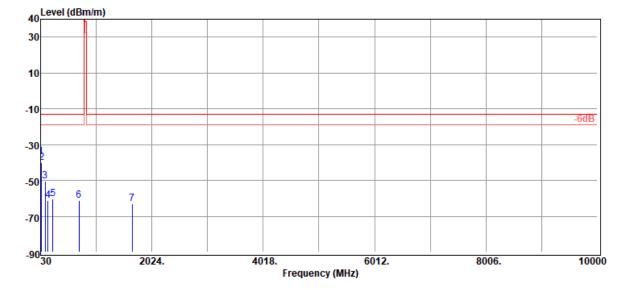
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:E2/2019/A0029
:LTE B26
:TX CH MID
:E2 Plan
:836.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
31.94	-37.12	-16.10	-20.36	-0.66	-13.00	-24.12
45.52	-40.06	-20.82	-18.38	-0.86	-13.00	-27.06
116.33	-50.27	-41.69	-7.13	-1.45	-13.00	-37.27
163.86	-61.32	-52.96	-6.66	-1.70	-13.00	-48.32
251.16	-60.27	-56.48	-1.56	-2.23	-13.00	-47.27
719.67	-61.43	-56.14	-1.39	-3.90	-13.00	-48.43
1673.00	-63.20	-65.05	9.53	-7.68	-13.00	-50.20

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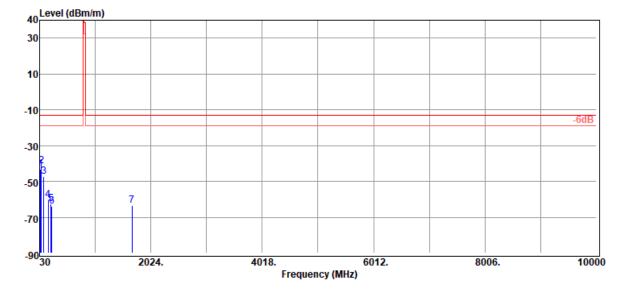
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B26
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:841.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
46.49	-43.37	-24.22	-18.29	-0.86	-13.00	-30.37
61.04	-41.50	-25.58	-14.92	-1.00	-13.00	-28.50
103.72	-47.15	-39.14	-6.64	-1.37	-13.00	-34.15
182.29	-60.33	-54.56	-4.00	-1.77	-13.00	-47.33
235.64	-62.77	-58.82	-1.74	-2.21	-13.00	-49.77
251.16	-63.84	-60.05	-1.56	-2.23	-13.00	-50.84
1683.00	-63.63	-65.52	9.63	-7.74	-13.00	-50.63

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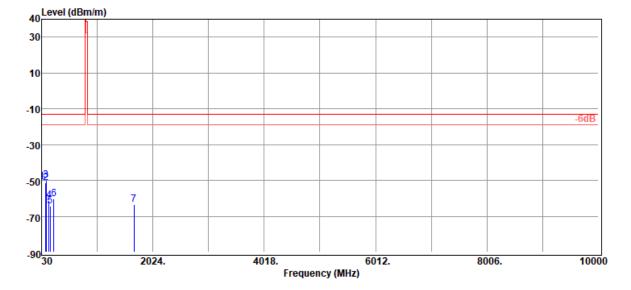
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B26
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:841.5 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
30.00	-50.82	-29.31	-20.90	-0.61	-13.00	-37.82
103.72	-51.33	-43.32	-6.64	-1.37	-13.00	-38.33
116.33	-50.05	-41.47	-7.13	-1.45	-13.00	-37.05
165.80	-61.39	-53.13	-6.55	-1.71	-13.00	-48.39
182.29	-64.24	-58.47	-4.00	-1.77	-13.00	-51.24
251.16	-60.10	-56.31	-1.56	-2.23	-13.00	-47.10
1683.00	-63.52	-65.41	9.63	-7.74	-13.00	-50.52

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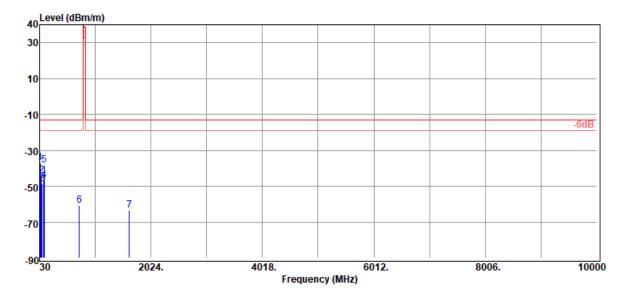
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Radiated Spurious Emission Measurement Result: LTE Band 26 Mode (Part 90)

Report Number	:E2/2019/A0029	Test Date	:2019-11-21
Operation Mode	:LTE B26 Part 90	Temp./Humi.	:23.5/57
Test Mode	:TX CH MID	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:819 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
38.73	-36.91	-16.83	-19.25	-0.83	-13.00	-23.91
60.07	-43.92	-27.66	-15.26	-1.00	-13.00	-30.92
74.62	-48.66	-37.43	-10.16	-1.07	-13.00	-35.66
104.69	-46.72	-38.55	-6.78	-1.39	-13.00	-33.72
114.39	-38.06	-29.50	-7.11	-1.45	-13.00	-25.06
739.07	-60.73	-55.00	-1.53	-4.20	-13.00	-47.73
1638.00	-63.24	-65.04	9.25	-7.45	-13.00	-50.24

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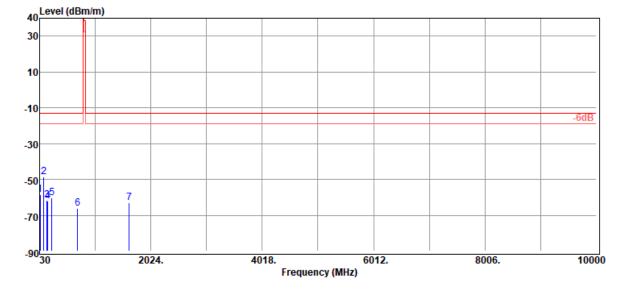
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:E2/2019/A0029
:LTE B26 Part 90
:TX CH MID
:E2 Plan
:819 MHz

Test Date	:2019-11-21
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
37.76	-58.37	-38.22	-19.35	-0.80	-13.00	-45.37
103.72	-48.79	-40.78	-6.64	-1.37	-13.00	-35.79
164.83	-61.61	-53.30	-6.60	-1.71	-13.00	-48.61
174.53	-62.26	-55.07	-5.45	-1.74	-13.00	-49.26
251.16	-60.33	-56.54	-1.56	-2.23	-13.00	-47.33
711.91	-65.94	-60.71	-1.33	-3.90	-13.00	-52.94
1638.00	-62.90	-64.70	9.25	-7.45	-13.00	-49.90

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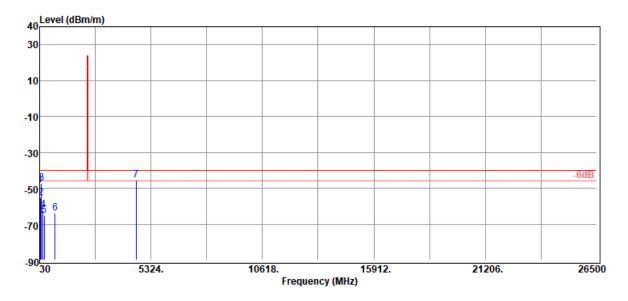
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Radiated Spurious Emission Measurement Result: LTE Band 30 Mode

Report Number	:E2/2019/A0029	Test Date	:2019-11-20
Operation Mode	:LTE B30	Temp./Humi.	:23.5/57
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:2307.5 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
48.43	-48.02	-29.27	-17.89	-0.86	-40.00	-8.02
83.35	-55.19	-46.58	-7.45	-1.16	-40.00	-15.19
116.33	-47.24	-38.66	-7.13	-1.45	-40.00	-7.24
183.26	-62.13	-56.50	-3.85	-1.78	-40.00	-22.13
255.04	-65.18	-61.42	-1.51	-2.25	-40.00	-25.18
762.35	-64.13	-58.16	-1.70	-4.27	-40.00	-24.13
4615.00	-45.33	-46.72	12.54	-11.15	-40.00	-5.33

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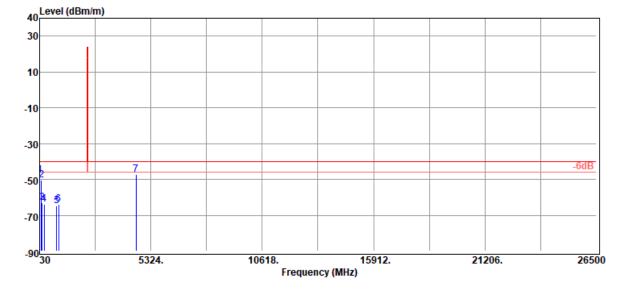
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B30
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:2307.5 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
40.67	-47.90	-28.02	-19.02	-0.86	-40.00	-7.90
116.33	-50.31	-41.73	-7.13	-1.45	-40.00	-10.31
163.86	-63.14	-54.78	-6.66	-1.70	-40.00	-23.14
250.19	-63.72	-59.91	-1.58	-2.23	-40.00	-23.72
835.10	-64.65	-58.70	-1.41	-4.54	-40.00	-24.65
947.62	-64.11	-57.65	-1.66	-4.80	-40.00	-24.11
4615.00	-47.17	-48.56	12.54	-11.15	-40.00	-7.17

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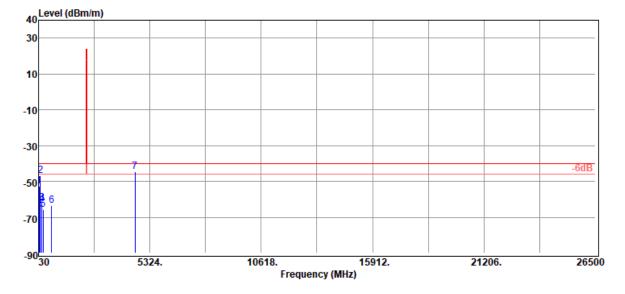
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B30
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:2310 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
	dBiii	GBIII	abiiaba	40	dDin	40
61.04	-52.60	-36.68	-14.92	-1.00	-40.00	-12.60
115.36	-46.80	-38.21	-7.14	-1.45	-40.00	-6.80
183.26	-61.89	-56.26	-3.85	-1.78	-40.00	-21.89
200.72	-62.76	-58.59	-2.09	-2.08	-40.00	-22.76
245.34	-65.52	-61.54	-1.75	-2.23	-40.00	-25.52
650.80	-63.63	-58.54	-1.30	-3.79	-40.00	-23.63
4620.00	-44.35	-45.70	12.52	-11.17	-40.00	-4.35

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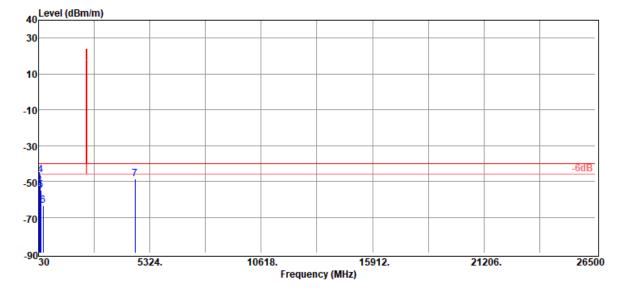
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B30
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:2310 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
42.61	-50.42	-30.75	-18.81	-0.86	-40.00	-10.42
55.22	-52.20	-34.79	-16.48	-0.93	-40.00	-12.20
81.41	-55.44	-46.34	-7.94	-1.16	-40.00	-15.44
108.57	-46.45	-38.04	-6.98	-1.43	-40.00	-6.45
135.73	-54.72	-45.50	-7.56	-1.66	-40.00	-14.72
251.16	-63.28	-59.49	-1.56	-2.23	-40.00	-23.28
4620.00	-48.61	-49.96	12.52	-11.17	-40.00	-8.61

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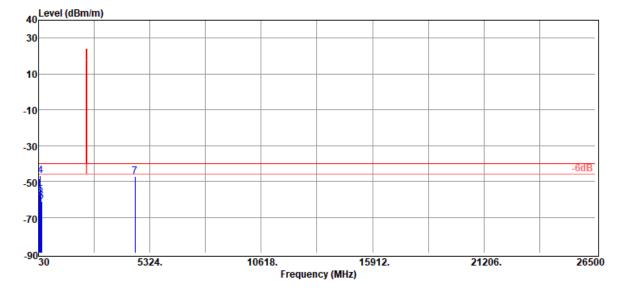
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B30
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:2312.5 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
33.88	-54.29	-33.74	-19.84	-0.71	-40.00	-14.29
49.40	-58.03	-39.44	-17.73	-0.86	-40.00	-18.03
76.56	-59.69	-49.10	-9.49	-1.10	-40.00	-19.69
116.33	-46.84	-38.26	-7.13	-1.45	-40.00	-6.84
136.70	-57.67	-48.41	-7.60	-1.66	-40.00	-17.67
182.29	-61.34	-55.57	-4.00	-1.77	-40.00	-21.34
4625.00	-47.07	-48.38	12.50	-11.19	-40.00	-7.07

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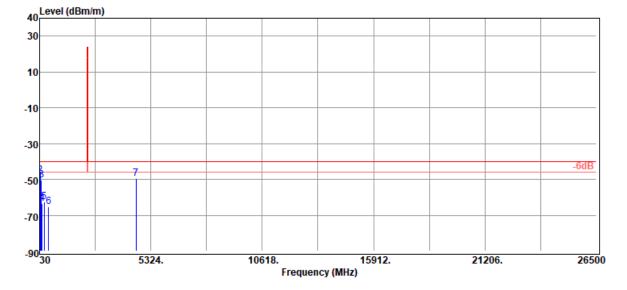
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:E2/2019/A0029
:LTE B30
:TX CH HIGH
:E2 Plan
:2312.5 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
35.82	-51.69	-31.29	-19.64	-0.76	-40.00	-11.69
64.92	-47.90	-33.19	-13.71	-1.00	-40.00	-7.90
115.36	-50.37	-41.78	-7.14	-1.45	-40.00	-10.37
160.95	-63.31	-54.72	-6.90	-1.69	-40.00	-23.31
249.22	-62.45	-58.61	-1.61	-2.23	-40.00	-22.45
459.71	-65.39	-60.71	-1.29	-3.39	-40.00	-25.39
4625.00	-49.48	-50.79	12.50	-11.19	-40.00	-9.48

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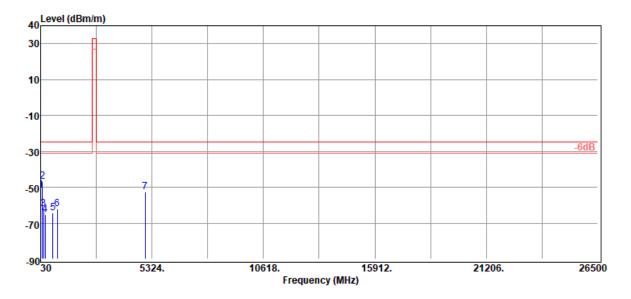
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Radiated Spurious Emission Measurement Result: LTE Band 41 Mode

Report Number	:E2/2019/A0029	Test Date	:2019-11-20
Operation Mode	:LTE B41	Temp./Humi.	:23.5/57
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:2503.5 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
48.43	-51.72	-32.97	-17.89	-0.86	-25.00	-26.72
116.33	-46.74	-38.16	-7.13	-1.45	-25.00	-21.74
182.29	-62.06	-56.29	-4.00	-1.77	-25.00	-37.06
251.16	-65.30	-61.51	-1.56	-2.23	-25.00	-40.30
621.70	-64.32	-59.18	-1.57	-3.57	-25.00	-39.32
825.40	-62.08	-55.94	-1.60	-4.54	-25.00	-37.08
5007.00	-52.54	-53.61	12.49	-11.42	-25.00	-27.54

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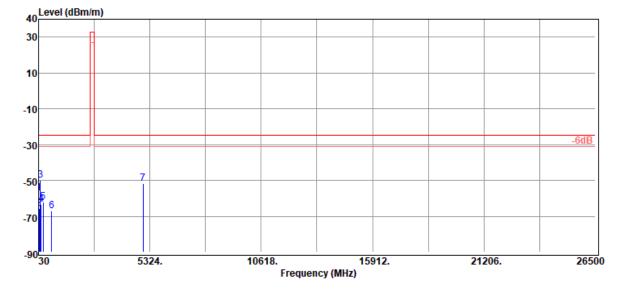
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B41
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:2503.5 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
37.76	-56.98	-36.83	-19.35	-0.80	-25.00	-31.98
57.16	-65.73	-48.71	-16.06	-0.96	-25.00	-40.73
115.36	-50.18	-41.59	-7.14	-1.45	-25.00	-25.18
161.92	-63.66	-55.12	-6.85	-1.69	-25.00	-38.66
249.22	-62.14	-58.30	-1.61	-2.23	-25.00	-37.14
644.98	-66.85	-61.54	-1.35	-3.96	-25.00	-41.85
5007.00	-51.90	-52.97	12.49	-11.42	-25.00	-26.90

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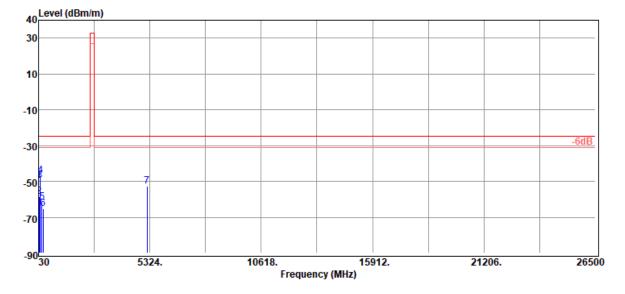
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:E2/2019/A0029
:LTE B41
:TX CH MID
:E2 Plan
:2593 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
47.46	-49.63	-30.70	-18.07	-0.86	-25.00	-24.63
56.19	-58.32	-41.12	-16.25	-0.95	-25.00	-33.32
104.69	-49.59	-41.42	-6.78	-1.39	-25.00	-24.59
116.33	-46.79	-38.21	-7.13	-1.45	-25.00	-21.79
183.26	-61.75	-56.12	-3.85	-1.78	-25.00	-36.75
251.16	-65.45	-61.66	-1.56	-2.23	-25.00	-40.45
5186.00	-52.88	-53.56	12.64	-11.96	-25.00	-27.88

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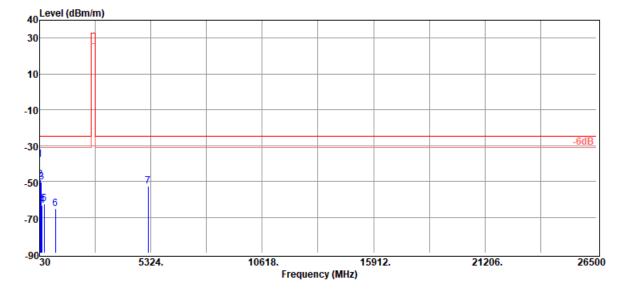
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Number :E2/20	019/A0029
ion Mode :LTE E	341
ode :TX C	H MID
ol :E2 PI	an
nannel :2593	MHz
ode :TX C ol :E2 PI	H MID an

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
36.79	-37.99	-17.78	-19.43	-0.78	-25.00	-12.99
49.40	-48.93	-30.34	-17.73	-0.86	-25.00	-23.93
115.36	-50.23	-41.64	-7.14	-1.45	-25.00	-25.23
163.86	-63.45	-55.09	-6.66	-1.70	-25.00	-38.45
252.13	-62.45	-58.66	-1.55	-2.24	-25.00	-37.45
785.63	-65.40	-59.03	-1.73	-4.64	-25.00	-40.40
5186.00	-52.60	-53.28	12.64	-11.96	-25.00	-27.60

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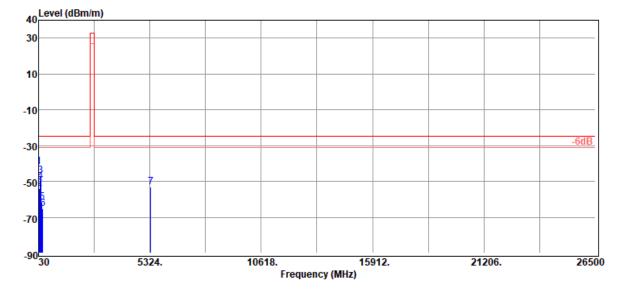
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B41
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:2682.5 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
39.70	-41.86	-21.87	-19.14	-0.85	-25.00	-16.86
82.38	-54.23	-45.39	-7.68	-1.16	-25.00	-29.23
116.33	-46.72	-38.14	-7.13	-1.45	-25.00	-21.72
140.58	-50.11	-40.81	-7.64	-1.66	-25.00	-25.11
183.26	-61.62	-55.99	-3.85	-1.78	-25.00	-36.62
237.58	-65.25	-61.25	-1.78	-2.22	-25.00	-40.25
5365.00	-52.91	-54.89	13.44	-11.46	-25.00	-27.91

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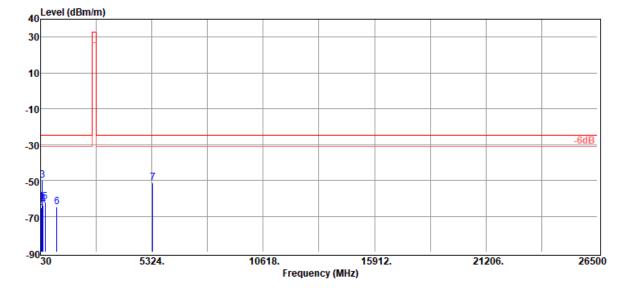
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:E2/2019/A0029
:LTE B41
:TX CH HIGH
:E2 Plan
:2682.5 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
34.85	-62.29	-41.79	-19.77	-0.73	-25.00	-37.29
56.19	-65.15	-47.95	-16.25	-0.95	-25.00	-40.15
116.33	-50.18	-41.60	-7.13	-1.45	-25.00	-25.18
163.86	-63.71	-55.35	-6.66	-1.70	-25.00	-38.71
249.22	-62.28	-58.44	-1.61	-2.23	-25.00	-37.28
806.97	-64.68	-58.96	-1.50	-4.22	-25.00	-39.68
5365.00	-51.47	-53.45	13.44	-11.46	-25.00	-26.47

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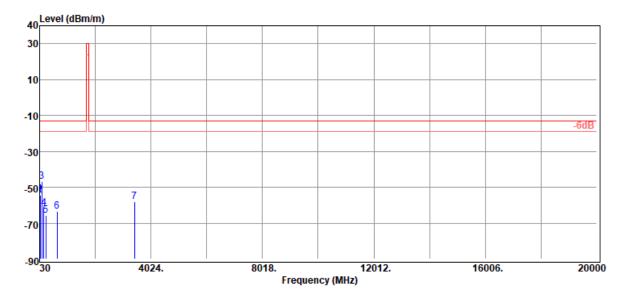
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Radiated Spurious Emission Measurement Result: LTE Band 66 Mode

Report Number	:E2/2019/A0029	Test Date	:2019-11-20
Operation Mode	:LTE B66	Temp./Humi.	:23.5/57
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Enzo
Test Channel	:1720 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
35.82	-54.14	-33.74	-19.64	-0.76	-13.00	-41.14
52.31	-54.41	-36.38	-17.14	-0.89	-13.00	-41.41
116.33	-46.76	-38.18	-7.13	-1.45	-13.00	-33.76
183.26	-61.48	-55.85	-3.85	-1.78	-13.00	-48.48
251.16	-65.53	-61.74	-1.56	-2.23	-13.00	-52.53
663.41	-63.54	-58.49	-1.20	-3.85	-13.00	-50.54
3440.00	-57.93	-59.36	12.62	-11.19	-13.00	-44.93

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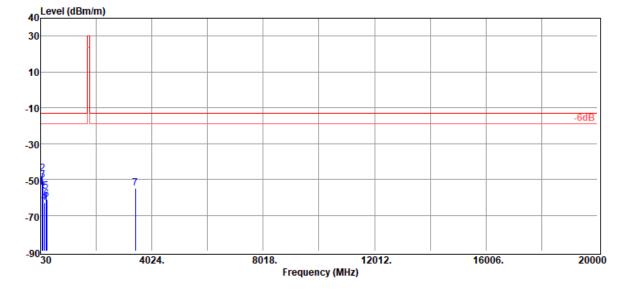
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B66
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:1720 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
38.73	-54.67	-34.59	-19.25	-0.83	-13.00	-41.67
99.84	-46.64	-39.09	-6.22	-1.33	-13.00	-33.64
115.36	-50.44	-41.85	-7.14	-1.45	-13.00	-37.44
161.92	-63.00	-54.46	-6.85	-1.69	-13.00	-50.00
225.94	-56.75	-53.32	-1.24	-2.19	-13.00	-43.75
247.28	-61.40	-57.49	-1.68	-2.23	-13.00	-48.40
3440.00	-55.05	-56.48	12.62	-11.19	-13.00	-42.05

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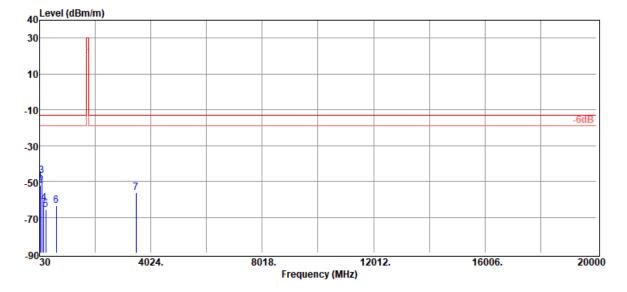
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:E2/2019/A0029
:LTE B66
:TX CH MID
:E2 Plan
:1745 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
41.64	-49.84	-30.06	-18.92	-0.86	-13.00	-36.84
67.83	-52.16	-38.33	-12.83	-1.00	-13.00	-39.16
115.36	-46.70	-38.11	-7.14	-1.45	-13.00	-33.70
183.26	-62.09	-56.46	-3.85	-1.78	-13.00	-49.09
248.25	-65.73	-61.86	-1.64	-2.23	-13.00	-52.73
631.40	-63.68	-58.50	-1.53	-3.65	-13.00	-50.68
3490.00	-56.24	-57.73	12.36	-10.87	-13.00	-43.24

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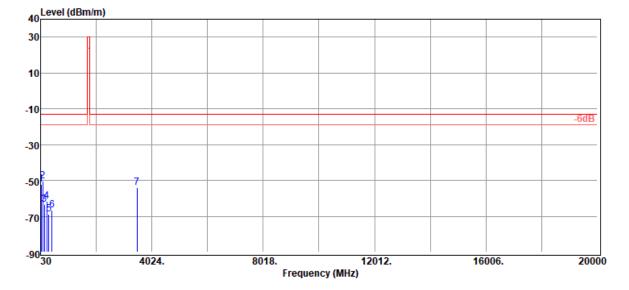
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B66
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:1745 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
46.49	-52.06	-32.91	-18.29	-0.86	-13.00	-39.06
115.36	-50.22	-41.63	-7.14	-1.45	-13.00	-37.22
162.89	-63.49	-54.98	-6.81	-1.70	-13.00	-50.49
250.19	-61.86	-58.05	-1.58	-2.23	-13.00	-48.86
331.67	-69.01	-64.77	-1.59	-2.65	-13.00	-56.01
437.40	-66.82	-62.48	-1.37	-2.97	-13.00	-53.82
3490.00	-54.01	-55.50	12.36	-10.87	-13.00	-41.01

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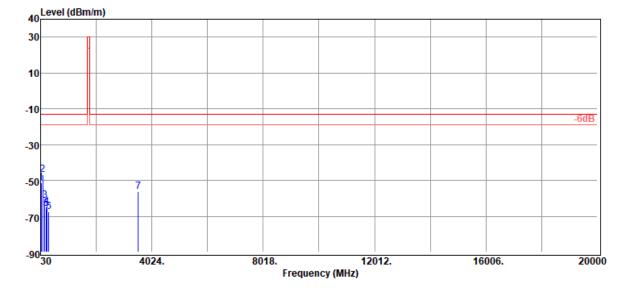
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B66
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:1770 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:VERTICAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
51.34	-51.34	-33.13	-17.33	-0.88	-13.00	-38.34
115.36	-46.78	-38.19	-7.14	-1.45	-13.00	-33.78
185.20	-61.35	-55.97	-3.57	-1.81	-13.00	-48.35
235.64	-64.78	-60.83	-1.74	-2.21	-13.00	-51.78
250.19	-65.76	-61.95	-1.58	-2.23	-13.00	-52.76
322.94	-67.64	-63.39	-1.53	-2.72	-13.00	-54.64
3540.00	-56.18	-57.49	12.30	-10.99	-13.00	-43.18

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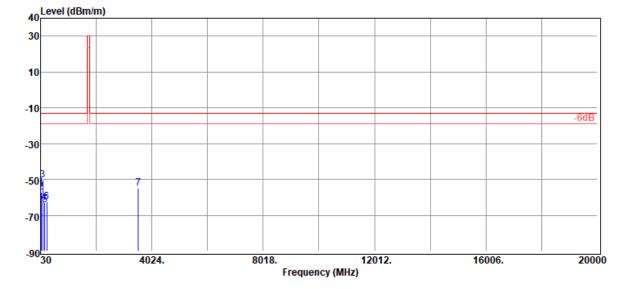
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B66
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:1770 MHz

Test Date	:2019-11-20
Temp./Humi.	:23.5/57
Antenna Pol.	:HORIZONTAL
Engineer	:Enzo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
41.64	-54.78	-35.00	-18.92	-0.86	-13.00	-41.78
51.34	-57.33	-39.12	-17.33	-0.88	-13.00	-44.33
116.33	-50.30	-41.72	-7.13	-1.45	-13.00	-37.30
162.89	-63.07	-54.56	-6.81	-1.70	-13.00	-50.07
179.38	-64.51	-58.25	-4.52	-1.74	-13.00	-51.51
251.16	-62.68	-58.89	-1.56	-2.23	-13.00	-49.68
3540.00	-55.06	-56.37	12.30	-10.99	-13.00	-42.06

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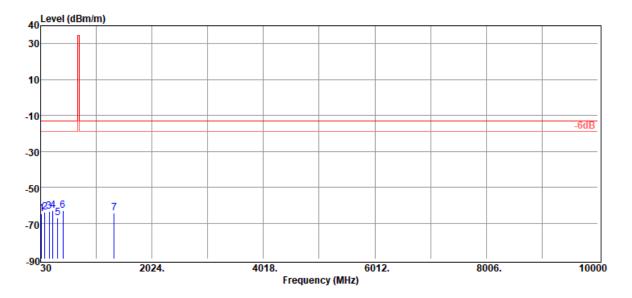
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Radiated Spurious Emission Measurement Result: LTE Band 71 Mode

Report Number	:E2/2019/A0029	Test Date	:2019-12-12
Operation Mode	:LTE B71	Temp./Humi.	:24.0/44
Test Mode	:TX CH LOW	Antenna Pol.	:VERTICAL
EUT Pol	:E2 Plan	Engineer	:Ashton
Test Channel	:673 MHz		



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
49.40	-64.87	-46.28	-17.73	-0.86	-13.00	-51.87
107.60	-63.94	-55.56	-6.96	-1.42	-13.00	-50.94
182.29	-63.58	-57.81	-4.00	-1.77	-13.00	-50.58
252.13	-63.17	-59.38	-1.55	-2.24	-13.00	-50.17
334.58	-67.13	-62.85	-1.63	-2.65	-13.00	-54.13
431.58	-62.88	-58.34	-1.44	-3.10	-13.00	-49.88
1346.00	-64.41	-64.63	6.52	-6.30	-13.00	-51.41

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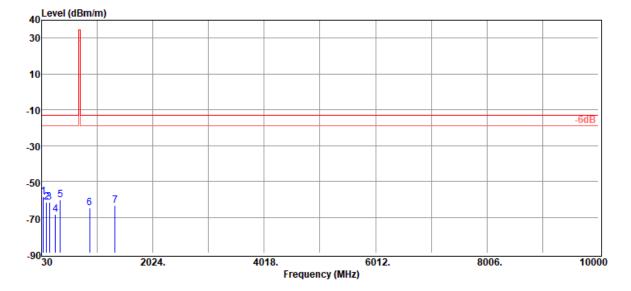
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B71
Test Mode	:TX CH LOW
EUT Pol	:E2 Plan
Test Channel	:673 MHz

Test Date	:2019-12-12
Temp./Humi.	:24.0/44
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
62.98	-58.63	-43.37	-14.26	-1.00	-13.00	-45.63
120.21	-61.63	-53.12	-7.06	-1.45	-13.00	-48.63
167.74	-61.63	-53.45	-6.45	-1.73	-13.00	-48.63
281.23	-68.25	-64.14	-1.69	-2.42	-13.00	-55.25
363.68	-60.22	-56.05	-1.47	-2.70	-13.00	-47.22
891.36	-64.76	-58.71	-1.44	-4.61	-13.00	-51.76
1346.00	-63.30	-63.52	6.52	-6.30	-13.00	-50.30

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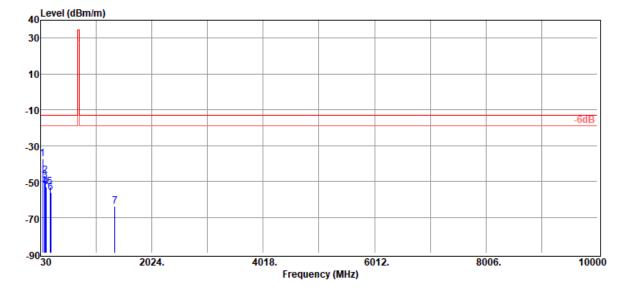
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B71
Test Mode	:TX CH MID
EUT Pol	:E2 Plan
Test Channel	:680.5 MHz

Test Date	:2019-12-12
Temp./Humi.	:24.1/44
Antenna Pol.	:VERTICAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
66.86	-37.29	-23.24	-13.05	-1.00	-13.00	-24.29
103.72	-46.73	-38.72	-6.64	-1.37	-13.00	-33.73
115.36	-49.62	-41.03	-7.14	-1.45	-13.00	-36.62
130.88	-53.32	-44.37	-7.29	-1.66	-13.00	-40.32
197.81	-53.25	-48.98	-2.24	-2.03	-13.00	-40.25
217.21	-56.25	-52.74	-1.35	-2.16	-13.00	-43.25
1361.00	-64.05	-64.30	6.61	-6.36	-13.00	-51.05

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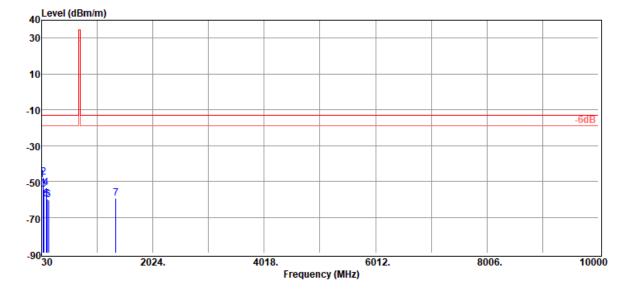
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:E2/2019/A0029
:LTE B71
:TX CH MID
:E2 Plan
:680.5 MHz

Test Date	:2019-12-12
Temp./Humi.	:24.1/44
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
36.79	-48.85	-28.64	-19.43	-0.78	-13.00	-35.85
62.98	-47.73	-32.47	-14.26	-1.00	-13.00	-34.73
71.71	-54.33	-41.92	-11.38	-1.03	-13.00	-41.33
111.48	-53.36	-44.82	-7.09	-1.45	-13.00	-40.36
126.03	-59.94	-51.23	-7.13	-1.58	-13.00	-46.94
153.19	-60.17	-51.25	-7.24	-1.68	-13.00	-47.17
1361.00	-59.38	-59.63	6.61	-6.36	-13.00	-46.38

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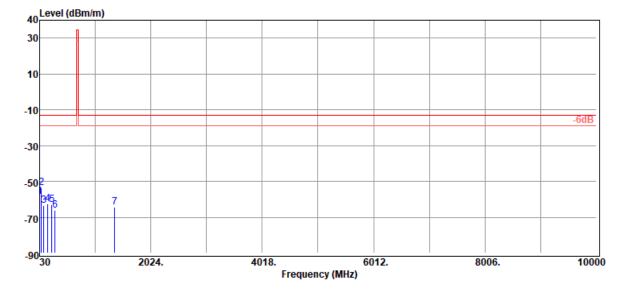
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B71
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:688 MHz

Test Date	:2019-12-12
Temp./Humi.	:24.2/43
Antenna Pol.	:VERTICAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
32.91	-58.65	-37.88	-20.09	-0.68	-13.00	-45.65
62.98	-53.41	-38.15	-14.26	-1.00	-13.00	-40.41
107.60	-63.48	-55.10	-6.96	-1.42	-13.00	-50.48
179.38	-62.47	-56.21	-4.52	-1.74	-13.00	-49.47
250.19	-63.03	-59.22	-1.58	-2.23	-13.00	-50.03
307.42	-66.15	-61.98	-1.48	-2.69	-13.00	-53.15
1376.00	-64.39	-64.73	6.76	-6.42	-13.00	-51.39

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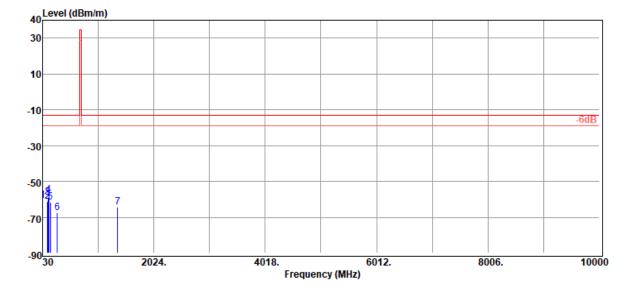
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Report Number	:E2/2019/A0029
Operation Mode	:LTE B71
Test Mode	:TX CH HIGH
EUT Pol	:E2 Plan
Test Channel	:688 MHz

Test Date	:2019-12-12
Temp./Humi.	:24.2/43
Antenna Pol.	:HORIZONTAL
Engineer	:Ashton



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
30.97	-60.68	-39.43	-20.62	-0.63	-13.00	-47.68
119.24	-61.15	-52.66	-7.04	-1.45	-13.00	-48.15
130.88	-59.06	-50.11	-7.29	-1.66	-13.00	-46.06
142.52	-57.59	-48.26	-7.66	-1.67	-13.00	-44.59
170.65	-61.52	-53.75	-6.03	-1.74	-13.00	-48.52
294.81	-67.44	-63.38	-1.55	-2.51	-13.00	-54.44
1376.00	-64.45	-64.79	6.76	-6.42	-13.00	-51.45

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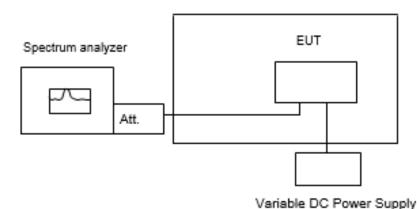
10 FREQUENCY STABILITY MEASUREMENT

10.1 Standard Applicabl

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

10.2 Test Set-up





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

Spectrum Analyzer

Conducted Emission (measured at antenna port) Test Site							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020		
Radio Communication Analyer	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020		
Attenuator	Marvelous	MVE2213-10	RF30	11/20/2019	11/19/2020		
DC Block	PASTERNACK	PE8210	RF32	11/20/2019	11/19/2020		
Splitter	Woken	DOM35LW1A2	RF83	11/20/2019	11/19/2020		
Coaxial Cables	Woken	00100A1F1A18 5C	RF229	11/20/2019	11/19/2020		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

N9010A

MY57120200

03/17/2020

03/16/2021

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Measurement Result 10.5

Note: The battery is rated 3.3V dc.

	WCDMA II Mid Channel 1880 MHz						
		Limit: +/- 2.5 ppm					
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)			
	FREQUEN	NCY ERROR vs. V	VOLTAGE				
3.465	20	1880.000009	9	4700			
3.3	20	1880.000006	6	4700			
3.135	20	1880.000003	3	4700			
3.1	20	1879.999996	-4	4700			
	FREQU	ENCY ERROR vs	s. Temp.				
3.3	50	1880.000007	7	4700			
3.3	40	1880.000004	4	4700			
3.3	30	1880	0	4700			
3.3	20	1879.999998	-2	4700			
3.3	10	1879.999996	-4	4700			
3.3	0	1879.999994	-6	4700			
3.3	-10	1879.999999	-1	4700			
3.3	-20	1880.000001	1	4700			
3.3	-30	1880.000003	3	4700			

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	WCDM	A IV Mid Channel	1732.6	MHz
		Limit: +/- 2.5 ppm		
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
	FREQUEN	ICY ERROR vs. V	VOLTAGE	
3.465	20	1732.600008	8	4331
3.3	20	1732.600003	3	4331
3.135	20	1732.600006	6	4331
3.1	20	1732.599999	-1	4331
	FREQU	ENCY ERROR vs	s. Temp.	
3.3	50	1732.600007	7	4331
3.3	40	1732.600003	3	4331
3.3	30	1732.600005	5	4331
3.3	20	1732.600002	2	4331
3.3	10	1732.599997	-3	4331
3.3	0	1732.599995	-5	4331
3.3	-10	1732.599999	-1	4331
3.3	-20	1732.599996	-4	4331
3.3	-30	1732.6	0	4331
	WCDM	A V Mid Channel	836.6	MHz
		Limit: +/- 2.5 ppm		
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
	FREQUEN	ICY ERROR vs. V	VOLTAGE	
3.465	20	836.60001	10	2091
3.3	20	836.600007	7	2091
3.135	20	836.600003	3	2091
3.1	20	836.599997	-3	2091
	FREQU	ENCY ERROR vs	s. Temp.	
3.3	50	836.600008	8	2091
3.3	40	836.600004	4	2091
3.3	30	836.600001	1	2091
3.3	20	836.599997	-3	2091
3.3	10	836.599994	-6	2091
3.3	0	836.599999	-1	2091
3.3	-10	836.600002	2	2091
3.3	-20	836.599998	-2	2091
3.3	-30	836.599995	-5	2091

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Reference Freg.:		B2 Mid	1880	MHz 20M QPSK CH 18900			
· · ·		Channel					
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)			
2.4/5	Freq. ERROR vs. VOLTAGE						
3.465	25	1880.000017	17	4700			
3.3	25	1880.000008	8	4700			
3.135	25	1880.000022	22	4700			
2.9 (End Point)	25	1880.000012	12	4700			
	Fre	q. ERROR vs.	Temp.				
3.3	-30	1879.999995	-5	4700			
3.3	-20	1879.999989	-11	4700			
3.3	-10	1879.999982	-18	4700			
3.3	0	1879.999981	-19	4700			
3.3	10	1880.00002	2	4700			
3.3	20	1879.999993	-7	4700			
3.3	30	1879.999980	-20	4700			
3.3	40	1879.999992	-8	4700			
3.3	50	1879.999992	-8	4700			
Reference Freq.:		B4 Mid Bannel	1732.5	MHz 20M QPSK CH 20175			
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)			
		ERROR vs. V					
3.465	25	1732.500021	21	4331			
3.3	25	1732.500008	8	4331			
3.135	25	1732.500008	8	4331			
2.9	٦E	1732.500011	11	4001			
(End Point)	25	1/32.500011	11	4331			
	Fre	q. ERROR vs.	Temp.				
3.3	-30	1732.499997	-3	4331			
3.3	-20	1732.499998	-2	4331			
3.3	-10	1732.499983	-17	4331			
3.3	0	1732.499987	-13	4331			
3.3	10	1732.500006	6	4331			
3.3	20	1732.499988	-12	4331			
3.3	30	1732.499984	-16	4331			
3.3	40	1732.499994	-6	4331			
3.3	50	1732.499997	-3	4331			

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Reference Freq.:		B5 Mid	836.5	MHz 10M QPSK CH 20525
		annel		
Power Supply Vdc	Temp. (°C)		Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
2.4/5		ERROR vs. V		2001
3.465	25	836.500017	17	2091
3.3	25	836.500018	18	2091
3.135	25	836.500005	5	2091
2.9 (End Point)	25	836.500012	12	2091
	Fre	q. ERROR vs.	Temp.	
3.3	-30	836.499993	-7	2091
3.3	-20	836.499982	-18	2091
3.3	-10	836.499981	-19	2091
3.3	0	836.499986	-14	2091
3.3	10	836.500015	15	2091
3.3	20	836.499990	-10	2091
3.3	30	836.499986	-14	2091
3.3	40	836.499992	-8	2091
3.3	50	836.499995	-5	2091
Reference Freq.:		B7 Mid annel	2535	MHz 10M QPSK CH 21100
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
		ERROR vs. V	. ,	
3.465	25	2535.000018	-	6338
3.3	25	2535.000007	7	6338
3.135	25	2535.000011	11	6338
2.9				
(End Point)	25	2535.000007	7	6338
(Fre	q. ERROR vs.	Temp.	
3.3	-30	2535.000001	1	6338
3.3	-20	2534.999993	-7	6338
3.3	-10	2534.999982		6338
3.3	0	2534.999980		6338
3.3	10	2535.000011	11	6338
3.3	20	2534.999983		6338
3.3	30	2534.999981	-19	6338
3.3	40	2534.999993		6338
3.3	50	2534.999989		6338

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Reference Freq.:		312 Mid annel	707.5	MHz 10M QPSK CH 23095
Power Supply Vdc		Freq. (MHz)		Limit = +/- 2.5 ppm (Hz)
	Freq.	ERROR vs. V	OLTAGE	
3.465	25	707.500024	24	1769
3.3	25	707.500008	8	1769
3.135	25	707.500010	10	1769
2.9 (End Point)	25	707.500006	6	1769
	Fre	q. ERROR vs.	Temp.	
3.3	-30	707.499988	-12	1769
3.3	-20	707.499991	-9	1769
3.3	-10	707.499973	-27	1769
3.3	0	707.499979	-21	1769
3.3	10	707.500000	0	1769
3.3	20	707.499983	-17	1769
3.3	30	707.499986	-14	1769
3.3	40	707.499992	-8	1769
3.3	50	707.500000	0	1769
Reference Freq.:		B13 Mid annel	782	MHz 10M QPSK CH 23230
Reference Freq.: Power Supply Vdc	Ch		782 Delta (Hz)	MHz 10M QPSK CH 23230 Limit = +/- 2.5 ppm (Hz)
•	Ch Temp. (℃)	annel	Delta (Hz)	
•	Ch Temp. (℃)	annel Freq. (MHz)	Delta (Hz)	
Power Supply Vdc	Ch Temp. (°C) Freq.	annel Freq. (MHz) ERROR vs. V	Delta (Hz) OLTAGE	Limit = +/- 2.5 ppm (Hz)
Power Supply Vdc 3.465	Ch Temp. (℃) Freq . 25	annel Freq. (MHz) ERROR vs. V 782.000015	Delta (Hz) OLTAGE 15	Limit = +/- 2.5 ppm (Hz) 1955
Power Supply Vdc 3.465 3.3	Ch Temp. (°C) Freq. 25 25	annel Freq. (MHz) ERROR vs. V 782.000015 782.000017	Delta (Hz) OLTAGE 15 17	Limit = +/- 2.5 ppm (Hz) 1955 1955
Power Supply Vdc 3.465 3.3 3.135 2.9	Ch Temp. (℃) Freq. 25 25 25 25 25	annel Freq. (MHz) ERROR vs. V 782.000015 782.000017 782.000009	Delta (Hz) OLTAGE 15 17 9 15	Limit = +/- 2.5 ppm (Hz) 1955 1955 1955
Power Supply Vdc 3.465 3.3 3.135 2.9	Ch Temp. (℃) Freq. 25 25 25 25 25	annel Freq. (MHz) ERROR vs. V 782.000015 782.000017 782.000009 782.000015	Delta (Hz) OLTAGE 15 17 9 15	Limit = +/- 2.5 ppm (Hz) 1955 1955 1955
Power Supply Vdc 3.465 3.3 3.135 2.9 (End Point)	Ch Temp. (°C) Freq. 25 25 25 25 25 Fre	annel Freq. (MHz) ERROR vs. V 782.000015 782.000009 782.000015 q. ERROR vs.	Delta (Hz) OLTAGE 15 17 9 15 Temp.	Limit = +/- 2.5 ppm (Hz) 1955 1955 1955 1955
Power Supply Vdc 3.465 3.3 3.135 2.9 (End Point) 3.3	Ch Temp. (℃) Freq. 25 25 25 25 25 Fre -30	annel Freq. (MHz) ERROR vs. V 782.000015 782.000017 782.000009 782.000015 q. ERROR vs. 781.999990	Delta (Hz) OLTAGE 15 17 9 15 Temp. -10	Limit = +/- 2.5 ppm (Hz) 1955 1955 1955 1955 1955
Power Supply Vdc 3.465 3.3 3.135 2.9 (End Point) 3.3 3.3 3.3	Ch Temp. (℃) Freq. 25 25 25 25 25 Fre -30 -20	annel Freq. (MHz) ERROR vs. V 782.000015 782.000017 782.000009 782.000015 q. ERROR vs. 781.999990 781.999986	Delta (Hz) OLTAGE 15 17 9 15 Temp. -10 -14	Limit = +/- 2.5 ppm (Hz) 1955 1955 1955 1955 1955 1955
Power Supply Vdc 3.465 3.3 3.135 2.9 (End Point) 3.3 3.3 3.3 3.3 3.3	Ch Temp. (℃) Freq. 25 25 25 25 25 Fre -30 -20 -10	annel Freq. (MHz) ERROR vs. V 782.000015 782.000017 782.000009 782.000015 q. ERROR vs. 781.999990 781.999986 781.999970	Delta (Hz) OLTAGE 15 17 9 15 Temp. -10 -14 -30	Limit = +/- 2.5 ppm (Hz) 1955 1955 1955 1955 1955 1955 1955 1955
Power Supply Vdc 3.465 3.3 3.135 2.9 (End Point) 3.3 3.3 3.3 3.3 3.3 3.3 3.3	Ch Temp. (℃) Freq. 25 25 25 25 25 Fre -30 -20 -10 0	annel Freq. (MHz) ERROR vs. V 782.000015 782.000017 782.000009 782.000015 782.000015 781.999990 781.999986 781.999988	Delta (Hz) OLTAGE 15 17 9 15 Temp. -10 -14 -30 -12	Limit = +/- 2.5 ppm (Hz) 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955
Power Supply Vdc 3.465 3.3 3.135 2.9 (End Point) 3.3	Ch Temp. (℃) Freq. 25 25 25 25 Fre -30 -20 -10 0 10	annel Freq. (MHz) ERROR vs. V 782.000015 782.000017 782.000009 782.000015 q. ERROR vs. 781.999990 781.999986 781.999988 781.999988 782.000001	Delta (Hz) OLTAGE 15 17 9 15 Temp. -10 -14 -30 -12 1	Limit = +/- 2.5 ppm (Hz) 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955
Power Supply Vdc 3.465 3.3 3.135 2.9 (End Point) 3.3	Ch Temp. (℃) Freq. 25 25 25 25 Fre -30 -20 -10 0 10 20	annel Freq. (MHz) ERROR vs. V 782.000015 782.000017 782.000009 782.000015 782.000015 781.999990 781.999986 781.999988 782.000001 781.999993	Delta (Hz) OLTAGE 15 17 9 15 Temp. -10 -14 -30 -12 1 -7	Limit = +/- 2.5 ppm (Hz) 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955 1955

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Reference Freq .:		B14 Mid annel	793	MHz 10M QPSK CH 23330
Power Supply Vdc	Temp. (°C)		Delta (Hz)	Limit = +/- 1.25 ppm (Hz)
		ERROR vs. V	OLTAGE	•• •
3.465	25	793.000017	17	1983
3.3	25	793.000006	6	1983
3.135	25	793.000010	10	1983
2.9 (End Point)	25	793.000008	8	1983
· · · · ·	Fre	q. ERROR vs.	Temp.	
3.3	-30	792.999997	-3	1983
3.3	-20	792.999996	-4	1983
3.3	-10	792.999973	-27	1983
3.3	0	792.999992	-8	1983
3.3	10	793.000011	11	1983
3.3	20	792.999991	-9	1983
3.3	30	792.999993	-7	1983
3.3	40	792.999992	-8	1983
3.3	50	792.999987	-13	1983
Reference Freq.:		B25 Mid annel	1882.5	MHz 20M QPSK CH 26365
Power Supply Vdc	Temp.	Freq.	Delta	Limit = $+/- 2.5 \text{ ppm}$
	(°C)	(MHz) ERROR vs. V	(Hz)	(Hz)
3.465	25	1882.500019		4700
3.3	25	1882.500003	3	4700
3.135	25	1882.500008		4700
2.9 (End Point)	25	1882.500017	17	4700
	Fre	q. ERROR vs.	Temp.	
3.3	-30	1882.499997	-3	4700
3.3	-20	1882.499998	-2	4700
3.3	-10	1882.499968	-32	4700
3.3	0	1882.499981	-19	4700
3.3	10	1882.500005	5	4700
3.3		1000 100070	0.1	1700
0.0	20	1882.499979	-21	4700
3.3	30	1882.499987	-13	4700
			-13 -8	

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Reference Freq.:		B26 Mid annel	831.5	MHz 15M QPSK CH 26865
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Freq.	ERROR vs. V	OLTAGE	
3.465	25	831.500019	19	2091
3.3	25	831.500011	11	2091
3.135	25	831.500016	16	2091
2.9 (End Point)	25	831.500003	3	2091
	Fre	q. ERROR vs.	Temp.	
3.3	-30	831.499999	-1	2091
3.3	-20	831.499982	-18	2091
3.3	-10	831.499970	-30	2091
3.3	0	831.499984	-16	2091
3.3	10	831.500004	4	2091
3.3	20	831.499981	-19	2091
3.3	30	831.499991	-9	2091
3.3	40	831.499995	-5	2091
3.3	50	831.500000	0	2091
Reference Freq .:		TE B26 Mid annel	819	MHz 10M QPSK CH 26740
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
		VOLTAGE (L		
3.465	25	819.000024	24	2048
3.3	25	819.000005	5	2048
3.135	25	819.000007	7	2048
2.9 (End Point)	25	819.000009	9	2048
, , ,	Fre	q. ERROR vs.	Temp.	
3.3	-30	818.999987	-13	2048
3.3	-20	818.999998	-2	2048
3.3	-10	818.999975	-25	2048
3.3	0	818.999990	-10	2048
3.3	10	819.000007	7	2048
3.3	20	818.999985	-15	2048
3.3	30	818.999991	-9	2048
3.3	40	818.999992	-8	2048
3.3	50	818.999994	-6	2048

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Reference Freq.:		B30 Mid annel	2310	MHz 10M QPSK CH 27710
Power Supply Vdc	Temp. (°C)		Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Freq.	ERROR vs. V	OLTAGE	
3.465	25	2310.000006	6	6488
3.3	25	2310.000006	6	6488
3.135	25	2310.000021	21	6488
2.9 (End Point)	25	2310.000009	9	6488
· · ·	Fre	q. ERROR vs.	Temp.	
3.3	-30	2309.999984	-16	6488
3.3	-20	2309.999983	-17	6488
3.3	-10	2309.999982	-18	6488
3.3	0	2309.999988	-12	6488
3.3	10	2310.000001	1	6488
3.3	20	2309.999976	-24	6488
3.3	30	2309.999997	-3	6488
3.3	40	2309.999996	-4	6488
3.3	50	2309.999999	-1	6488
Reference Freq .:		341 Mid annel	2593	MHz 10M QPSK CH 40620
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
11 5		ERROR vs. V		
3.465	25	2593.000014	14	6488
3.3	25	2593.000020	20	6488
3.135	25	2593.000011	11	6488
2.9 (End Point)	25	2593.000006	6	6488
	Fre	q. ERROR vs.	Temp.	
3.3	-30	2592.999993	-7	6488
3.3	-20	2592.999999	-1	6488
3.3	-10	2592.999975	-25	6488
3.3	0	2592.999978	-22	6488
3.3	10	2593.000004	4	6488
3.3	20	2592.999990	-10	6488
3.3	30	2592.999987	-13	6488
3.3	40	2592.999992	-8	6488

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Reference Freq.:		B66 Mid annel	1745	MHz 10M QPSK CH 132322
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Freq.	ERROR vs. V	OLTAGE	
3.465	25	1745.000022	22	6488
3.3	25	1745.000012	12	6488
3.135	25	1745.000019	19	6488
2.9 (End Point)	25	1745.000011	11	6488
	Fre	q. ERROR vs.	Temp.	
3.3	-30	1744.999990	-10	6488
3.3	-20	1744.999988	-12	6488
3.3	-10	1744.999971	-29	6488
3.3	0	1744.999980	-20	6488
3.3	10	1745.000000	0	6488
3.3	20	1744.999976	-24	6488
3.3	30	1744.999992	-8	6488
3.3	40	1744.999992	-8	6488
3.3	50	1745.000002	2	6488
Reference Freq.:	LTE	B71 Mid	2593	
	Ch	annel	2093	MHz 10M QPSK CH 40620
Power Supply Vdc	Ch Temp. (℃)	annel Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Temp. (°C)		Delta (Hz)	
	Temp. (°C)	Freq. (MHz)	Delta (Hz)	
Power Supply Vdc	Temp. (°C) Freq.	Freq. (MHz) ERROR vs. V	Delta (Hz) OLTAGE	Limit = +/- 2.5 ppm (Hz)
Power Supply Vdc 3.465	Temp. (℃) Freq . 25	Freq. (MHz) ERROR vs. V 2593.000021	Delta (Hz) OLTAGE 21	Limit = +/- 2.5 ppm (Hz) 6338
Power Supply Vdc 3.465 3.3	Temp. (℃) Freq. 25 25	Freq. (MHz) ERROR vs. V 2593.000021 2593.000017	Delta (Hz) OLTAGE 21 17	Limit = +/- 2.5 ppm (Hz) 6338 6338
Power Supply Vdc 3.465 3.3 3.135 2.9	Temp. (°C) Freq. 25 25 25 25 25	Freq. (MHz) ERROR vs. V 2593.000021 2593.000017 2593.000013	Delta (Hz) OLTAGE 21 17 13 13	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338
Power Supply Vdc 3.465 3.3 3.135 2.9	Temp. (°C) Freq. 25 25 25 25 25	Freq. (MHz) ERROR vs. V 2593.000021 2593.000017 2593.000013 2593.000013	Delta (Hz) OLTAGE 21 17 13 13	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338
Power Supply Vdc 3.465 3.3 3.135 2.9 (End Point)	Temp. (°C) Freq. 25 25 25 25 25 Fre	Freq. (MHz) ERROR vs. V 2593.000021 2593.000017 2593.000013 2593.000013 eq. ERROR vs.	Delta (Hz) OLTAGE 21 17 13 13 Temp.	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338 6338
Power Supply Vdc 3.465 3.3 3.135 2.9 (End Point) 3.3	Temp. (°C) Freq. 25 25 25 25 25 Fre -30	Freq. (MHz) ERROR vs. V 2593.000021 2593.000017 2593.000013 2593.000013 eq. ERROR vs. 2592.999988	Delta (Hz) OLTAGE 21 17 13 13 13 Temp. -12	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338 6338 6338
Power Supply Vdc 3.465 3.3 3.135 2.9 (End Point) 3.3 3.3	Temp. (°C) Freq. 25 25 25 25 25 Fre -30 -20	Freq. (MHz) ERROR vs. V 2593.000021 2593.000017 2593.000013 2593.000013 cq. ERROR vs. 2592.999988 2592.999981	Delta (Hz) OLTAGE 21 17 13 13 13 Temp. -12 -19	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338 6338 6338 6338
Power Supply Vdc 3.465 3.3 3.135 2.9 (End Point) 3.3 3.3 3.3 3.3	Temp. (°C) Freq. 25 25 25 25 25 Fre -30 -20 -10	Freq. (MHz) ERROR vs. V 2593.000021 2593.000017 2593.000013 2593.000013 cq. ERROR vs. 2592.999988 2592.999981 2592.999967	Delta (Hz) OLTAGE 21 17 13 13 13 Temp. -12 -19 -33	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338 6338 6338 6338 6338 6338 6338
Power Supply Vdc 3.465 3.3 3.135 2.9 (End Point) 3.3 3.3 3.3 3.3 3.3 3.3 3.3	Temp. (°C) Freq. 25 25 25 25 25 Fre -30 -20 -10 0	Freq. (MHz) ERROR vs. V 2593.000021 2593.000017 2593.000013 2593.000013 cq. ERROR vs. 2592.999988 2592.999981 2592.999985	Delta (Hz) OLTAGE 21 17 13 13 13 Temp. -12 -19 -33 -15	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338
Power Supply Vdc 3.465 3.3 3.135 2.9 (End Point) 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3	Temp. (°C) Freq. 25 25 25 25 25 Fre -30 -20 -10 0 10	Freq. (MHz) ERROR vs. V 2593.000021 2593.000017 2593.000013 2593.000013 cq. ERROR vs. 2592.999988 2592.999981 2592.999985 2592.999985 2593.000003	Delta (Hz) OLTAGE 21 17 13 13 13 Temp. -12 -19 -33 -15 3	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338
Power Supply Vdc 3.465 3.3 3.135 2.9 (End Point) 3.3	Temp. (°C) Freq. 25 25 25 25 25 Fre -30 -20 -10 0 10 20	Freq. (MHz) ERROR vs. V 2593.000021 2593.000017 2593.000013 2593.000013 cq. ERROR vs. 2592.999988 2592.999981 2592.999985 2592.999985 2593.000003 2592.999989	Delta (Hz) OLTAGE 21 17 13 13 13 Temp. -12 -19 -33 -15 3 -11	Limit = +/- 2.5 ppm (Hz) 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338 6338

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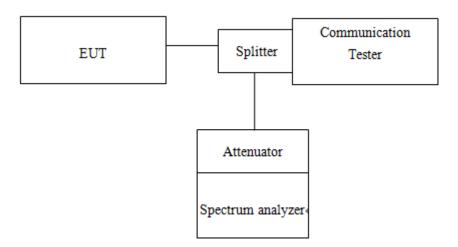


PEAK TO AVERAGE RATIO 11

11.1 Standard Applicable

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

11.2 Test SET-UP



Measurement Procedure 11.3

- 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.

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11.4 Measurement Equipment Used

Conduc	cted Emission	(measured at a	antenna port)	Test Site	
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/06/2019	03/05/2020
Radio Communication Analyer	Anritsu	MT8820C	6201107337	07/17/2019	07/16/2020
Attenuator	Marvelous	MVE2213-10	RF30	11/20/2019	11/19/2020
DC Block	PASTERNACK	PE8210	RF32	11/20/2019	11/19/2020
Splitter	Woken	DOM35LW1A2	RF83	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A18 5C	RF229	11/20/2019	11/19/2020
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUF.

TYPE		NUMBER	NUMBER	CAL.	OAL DOL.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/17/2020	03/16/2021

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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Measurement Result 11.5

Frog		Peak-to	-Average Ra	atio (dB)
Freq. (MHz)	СН	WCDMA	HSDPA	HSUPA
(11112)		I		II
1852.4	9262	2.90	2.89	2.90
1880	9400	2.87	2.87	2.85
1907.6	9538	2.88	2.87	2.89
Freq.		Peak-to-	-Average Ra	atio (dB)
(MHz)	СН	WCDMA	HSDPA	HSUPA
		IV	IV	IV
1712.4	1312	2.91	2.86	2.87
1732.6	1413	3.21	3.26	3.29
1752.6	1513	3.37	3.30	3.32
Freq.		Peak-to-	-Average Ra	atio (dB)
(MHz)	СН	WCDMA	HSDPA	HSUPA
		V	V	V
826.4	4132	2.86	2.89	2.87
836.6	4183	2.81	2.82	2.80
846.6	4233	2.84	2.86	2.85

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	LTE BAND 2											
Chan	nel bandv	width: 1.4N	ЛНz	Char	nnel band	lwidth: 3M	Hz					
Freq.	СН	PAPR	(dB)	Freq.	сц	PAPR	(dB)					
(MHz)	Сп	256QAM	Limit	(MHz)	СН	256QAM	Limit					
1850.7	18607	6.54	13	1851.5	18615	6.83	13					
1880.0	18900	6.63	13	1880.0	18900	6.64	13					
1909.3	19193	6.72	13	1908.5	19185	6.40	13					

	LTE BAND 2											
Char	nnel band	lwidth: 5M	Hz	Channel bandwidth: 10MHz								
Freq. CH		PAPR	PAPR (dB)		СН	PAPR	(dB)					
(MHz)	CII	256QAM	Limit	(MHz)	CH	256QAM	Limit					
1852.5	18625	6.75	13	1855.0	18650	6.35	13					
1880.0	18900	6.55	13	1880.0	18900	6.61	13					
1907.5	19175	6.43	13	1905.0	19150	6.62	13					

	LTE BAND 2											
Chan	nel band	width: 15N	/Hz	Chan	Channel bandwidth: 20MHz							
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)					
(MHz)	CII	256QAM	Limit	(MHz)	CH	256QAM	Limit					
1857.5	18675	6.57	13	1860.0	18700	6.74	13					
1880.0	18900	6.69	13	1880.0	18900	6.53	13					
1902.5	19125	6.56	13	1900.0	19100	6.90	13					

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	LTE BAND 4											
Chanr	nel band	width: 1.4	MHz	Char	nel ban	dwidth: 3N	/Hz					
Freq. CH		PAPR (dB)		Freq.	сц	PAPR	(dB)					
(MHz)	Сп	256QAM	Limit	(MHz)	СН	256QAM	Limit					
1710.7	19957	6.73	13	1711.5	19965	6.60	13					
1732.5	20175	6.75	13	1732.5	20175	6.58	13					
1754.3	20393	6.75	13	1753.5	20385	6.56	13					

LTE BAND 4											
Chan	nel ban	dwidth: 5N	/Hz	Chan	nel band	width: 10	MHz				
Freq.	СН	PAPR (dB)		Freq.	СН	PAPR	(dB)				
(MHz)	CII	256QAM	Limit	(MHz)	CH	256QAM	Limit				
1712.5	19957	6.59	13	1715.0	20000	6.50	13				
1732.5	20175	6.58	13	1732.5	20175	6.51	13				
1752.5	20375	6.53	13	1750.0	20350	6.61	13				

	LTE BAND 4											
Chan	Channel bandwidth: 15MHz				Channel bandwidth: 20MHz							
Freq. CH		PAPR	(dB)	Freq.	СН	PAPR ((dB)					
(MHz)	CIT	256QAM	Limit	(MHz)	CII	256QAM	Limit					
1717.5	20025	6.70	13	1720.0	20050	6.57	13					
1732.5	20175	6.45	13	1732.5	20175	6.62	13					
1747.5	20325	6.65	13	1745.0	20300	6.70	13					
			LTE B	AND 5								
Chan	nel band	width: 1.4	MHz	Chai	nnel ban	dwidth: 3N	IHz					
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)					
(MHz)	СП	256QAM	Limit	(MHz)	СП	256QAM	Limit					
824.7	20407	6.57	13	825.5	20415	6.72	13					
836.5	20525	6.59	13	836.5	20525	6.76	13					
848.3	20643	6.43	13	847.5	20635	6.44	13					

	LTE BAND 5											
Char	nnel band	width: 5M	Hz	Chan	nel band	width: 10N	/Hz					
Freq.	СН	PAPR (dB) Freq.		PAPR	(dB)							
(MHz)	СП	256QAM	Limit	(MHz)	СН	256QAM	Limit					
826.5	20425	6.77	13	829.0	20450	6.52	13					
836.5	20525	6.70	13	836.5	20525	6.58	13					
846.5	20625	6.61	13	844.0	20600	6.53	13					

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	LTE BAND 7											
Chan	nel ban	dwidth: 5N	/Hz	Channel bandwidth: 10MHz								
Freq. CH		PAPR	(dB)	Freq.	сц	PAPR	(dB)					
(MHz)	Сп	256QAM	Limit	(MHz)	СН	256QAM	Limit					
2502.5	20775	6.63	13	2505.0	20800	6.58	13					
2535.0	21100	6.63	13	2535.0	21100	6.50	13					
2567.5	21375	6.49	13	2565.0	21350	6.51	13					

	LTE BAND 7											
Chan	Channel bandwidth: 15MHz				Channel bandwidth: 20MHz							
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)					
(MHz)	СП	256QAM	Limit	(MHz)	СП	256QAM	Limit					
2507.5	20825	6.52	13	2510	20850	6.56	13					
2535.0	21100	6.54	13	2535	21100	6.67	13					
2562.5	21375	6.64	13	2560	21350	6.64	13					
			LTE BA	AND 12								
Chan	nel band	width: 1.4N	MHz	Channel bandwidth: 3MHz								
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)					
(MHz)	CIT	256QAM	Limit	(MHz)	CIT	256QAM	Limit					
699.7	23017	6.93	13	700.5	23025	6.60	13					
707.5	23095	6.86	13	707.5	23095	6.71	13					
715.3	23173	6.53	13	714.5	23165	6.55	13					

			LTE BA	AND 12				
Char	nnel band	dwidth: 5M	Hz	Chan	nel banc	lwidth: 10N	ЛНz	
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)	
(MHz)	CIT	256QAM	Limit	(MHz)		256QAM	Limit	
701.5	23035	6.50	13	704.0	23060	4.78	13	
707.5	23095	6.76	13	707.5	23095	5.01	13	
713.5	23155	6.49	13	711.0	23130	4.96	13	
			LTE BA	AND 13				
Char	nnel bano	dwidth: 5N	1Hz	Channel bandwidth: 10MH				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)		
(MHz)	CIT	256QAM	Limit	(MHz)	СП	256QAM	Limit	
779.5	23205	6.87	13					
782.0	23230	6.26	13	782.0	23230	6.55	13	
784.5	23255	6.81	13					

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	LTE BAND 14											
Chan	nel ban	dwidth: 5N	1Hz	Chan	nel banc	width: 10	MHz					
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)					
(MHz)	СП	256QAM	Limit	(MHz)	СП	256QAM	Limit					
790.5	23305	6.55	13									
793	23330	6.68	13	793.0	23330	6.46	13					
795.5	23355	6.74	13									
			LTE BA	AND 25								
Chanr	nel band	width: 1.4	MHz	Channel bandwidth: 3MHz								
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)						
(MHz)	CIT	256QAM	Limit	(MHz)	CII	256QAM	Limit					
1850.7	26047	6.94	13	1851.5	26055	6.30	13					
1882.5	26365	6.24	13	1882.5	26365	6.44	13					
1914.3	26683	6.63	13	1913.5	26675	6.45	13					

	LTE BAND 25											
Chan	nel ban	dwidth: 5N	/Hz	Chan	nel band	lwidth: 10l	MHz					
Freq.	Freq. CH PAPR (dB)				СН	PAPR	(dB)					
(MHz)	СП	256QAM	Limit	(MHz)	СП	256QAM	Limit					
1852.5	26065	6.19	13	1855.0	26090	6.21	13					
1882.5	26365	6.33	13	1882.5	26365	6.29	13					
1912.5	26665	6.34	13	1910.0	26640	6.49	13					

	LTE BAND 25											
Chan	nel banc	lwidth: 15l	MHz	Channel bandwidth: 20MHz								
Freq.	СН	PAPR (dB)			СН	PAPR	(dB)					
(MHz)	СП	256QAM	Limit	(MHz)	CH	256QAM	Limit					
1857.5	26115	6.47	13	1860.0	26140	6.65	13					
1882.5	26365	6.45	13	1882.5	26365	6.37	13					
1907.5	26615	6.63	13	1905.0	26590	6.90	13					

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	LTE BAND 26											
Chan	nel band	width: 1.4N	ЛНz	Char	nnel band	dwidth: 3M	Hz					
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)					
(MHz)	СП	256QAM	Limit	(MHz)	CH	256QAM	Limit					
814.7	26697	6.75	13	815.5	26705	6.75	13					
831.5	26865	6.86	13	831.5	26865	6.32	13					
848.3	27033	7.18	13	847.5	27025	6.56	13					

	LTE BAND 26										
Char	nnel band	dwidth: 5M	Hz	Chan	nel band	width: 10N	1Hz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	CIT	256QAM	Limit	(MHz)	CH	256QAM	Limit				
816.5	26715	6.63	13	820.0	26750	6.58	13				
831.5	26865	6.74	13	831.5	26865	6.47	13				
846.5	27015	6.53	13	844.0	26990	6.52	13				

	LTE BA	AND 26					
Chan	nel band	lwidth: 15N	ЛНz				
Freq.	СН	PAPR	(dB)				
(MHz)	СП	256QAM	Limit				
822.5	26775	6.66	13				
831.5	26865	6.66	13				
841.5	26965	6.55	13				
		LTE B	BAND 26	6 for part	90S		
Chan	nel band	width: 1.4	MHz	Char	nnel ban	dwidth: 3N	/IHz
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)	
(MHz)	СП	256QAM	Limit	(MHz)	СП	256QAM	Limit
814.7	26697	7.04	13	815.5	26705	6.69	13
819.0	26740	7.37	13	819	26740	6.68	13
823.3	26783	6.67	13	822.5	26775	6.48	13

	LTE BAND 26 for part 90S										
Channel bandwidth: 5MHz				Chan	nel banc	width: 10	MHz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	256QAM	Limit	(MHz)	CH	256QAM	Limit				
816.5	26715	6.70	13								
819.0	26740	6.57	13	819.0	26740	6.70	13				
821.5	26765	6.55	13								

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	LTE BAND 30											
Char	nnel band	dwidth: 5M	IHz	Chan	nel band	width: 10N	/IHz					
Freq.	СН	Peak-to-		Freq.	СН	Peak	-to-					
(MHz)	СП	256QAM	Limit	(MHz)	СП	256QAM	Limit					
2307.5	27685	6.66	13									
2310.0	27710	6.60	13	2310.0	27710	6.61	13					
2312.5	27735	6.43	13									
			LTE BA	AND 41								
Char	nnel bano	dwidth: 5N	/Hz	Channel bandwidth: 10M								
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR (dB)						
(MHz)	СП	256QAM	Limit	(MHz)	СП	256QAM	Limit					
2498.5	39675	7.21	13	2501.0	39700	7.95	13					
2593.0	40620	7.29	13	2593.0	40620	8.15	13					
2687.5	41565	7.00	13	2685.0	41540	7.15	13					

	LTE BAND 41										
Chan	nel banc	lwidth: 15l	MHz	Chan	nel banc	width: 20	MHz				
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	256QAM	Limit	(MHz)	CH	256QAM	Limit				
2503.5	39725	7.30	13	2506.0	39750	8.04	13				
2593.0	40620	6.89	13	2593.0	40620	7.43	13				
2682.5	41515	6.85	13	2680.0	41490	7.70	13				

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	LTE BAND 66											
Chan	nel band	width: 1.4N	ЛНz	Chai	nnel band	lwidth: 3M	Hz					
Freq.	eq. CH Peak-to-				СН	Peak-	to-					
(MHz)	СП	256QAM	Limit	(MHz)	Сп	256QAM	Limit					
1710.7	131979	6.85	13	1711.5	131987	6.69	13					
1745.0	132322	7.00	13	1745.0	132322	6.66	13					
1779.3	132665	7.27	13	1778.5	132657	6.73	13					

	LTE BAND 66											
Chai	nnel band	lwidth: 5M	Hz	Chan	nel band	width: 10N	/Hz					
Freq.	СН	Peak-	to-	Freq.	СН	Peak-	to-					
(MHz)	CII	256QAM	Limit	(MHz)	CIT	256QAM	Limit					
1712.5	131997	6.64	13	1715.0	132022	6.55	13					
1745.0	132322	6.61	13	1745.0	132322	6.68	13					
1777.5	132647	6.62	13	1775.0	132622	6.69	13					

			LTE BA	AND 66			
Channel bandwidth: 15MHz			Channel bandwidth: 20MHz				
Freq.	СН	Peak-	to-	Freq.	СН	Peak-	to-
(MHz)	СП	64QAM	Limit	(MHz)	СП	64QAM	Limit
1717.5	132047	6.65	13	1720.0	132072	6.63	13
1745.0	132322	6.61	13	1745.0	132322	6.67	13
1772.5	132597	6.59	13	1770.0	132572	6.74	13
LTE BAND 71							
			LTE BA	AND 71			
Chai	nnel banc	width: 5M			inel band	width: 10N	ЛНz
Chai Freq.		width: 5M PAPR	Hz			width: 10N PAPR	
	nnel band CH		Hz	Char	nel band CH		
Freq.		PAPR	Hz (dB)	Char Freq.		PAPR	(dB)
Freq. (MHz)	СН	PAPR 256QAM	Hz (dB) Limit	Char Freq. (MHz)	СН	PAPR 256QAM	(dB) Limit

LTE BAND 71							
Channel bandwidth: 15MHz			Channel bandwidth: 20MHz				
Freq.	СН	PAPR	(dB)	Freq. CH	PAPR (dB)		
(MHz)	СП	256QAM	Limit	(MHz)	СП	256QAM	Limit
670.5	133197	6.58	13	673.0	133222	6.83	13
680.5	133297	6.55	13	680.5	133297	6.60	13
690.5	133397	6.53	13	688.0	133372	7.05	13

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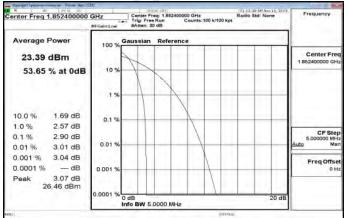
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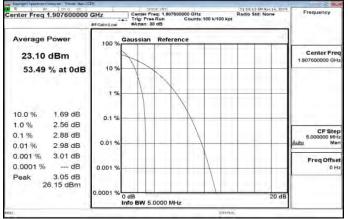
WCDMA B2 LowCH9262-1852.4



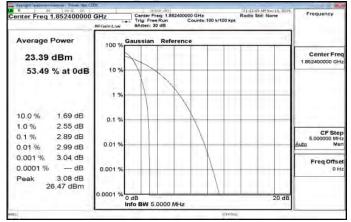
Center Freq: 1.880000000 GHz Radio Std: Nore Trig: Free Run Counts:100 k/100 kpt Center Freq 1.88000000 GHz Fram Average Power Gaussian Reference 100 % Center Fre 23.03 dBm 1 88000000 53.63 % at 0dB 10 9 1 9 10.0 % 1.70 dB 0.1 % 1.0 % 2.54 dB CF Step 5.000000 MHz Man 0.1 % 2 87 dB 0.01 9 0.01 % 2.99 dB 0.001 % 3.05 dB Freq Offse 0.0001 % --- dB 0.001 9 0 H 3.05 dB 26.08 dBm Peak 0.0001 % 20 di 0 dB Info BW 5.0000 MHz

WCDMA_B2_MidCH9400-1880

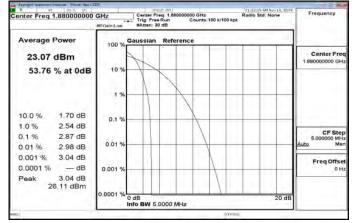
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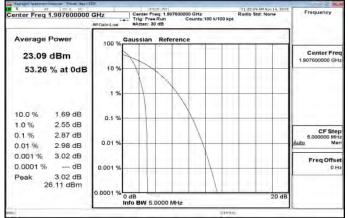
HSDPA B2 LowCH9262-1852.4



HSDPA_B2_MidCH9400-1880



HSDPA_B2_HighCH9538-1907.6



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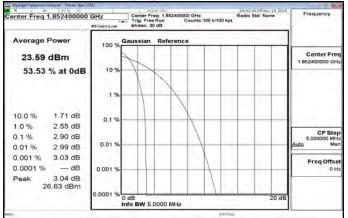
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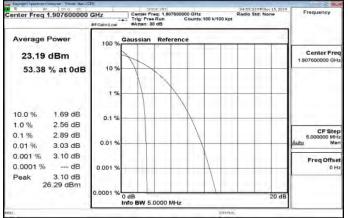
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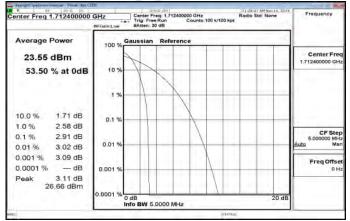
Center Freq: 1.880000000 GHz Radio Std: None Trig: Free Run Counts:100 k/100 kpt Center Freq 1.88000000 GHz Fram Average Power Gaussian Reference 100 % Center Fre 23.21 dBm 1 88000000 53.52 % at 0dB 10 9 1 9 10.0 % 1.70 dB 0.1 % 1.0 % 2.55 dB CF Step 5.000000 MHz Man 0.1 % 2 85 dB 0.01 9 0.01 % 2.96 dB 2.99 dB 0.001 % Freq Offse 0.0001 % --- dB 0.001 9 0 H 2.99 dB 26.20 dBm Peak 0.0001 % 20 di 0 dB Info BW 5.0000 MHz

HSUPA_B2_MidCH9400-1880

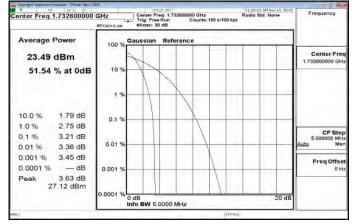
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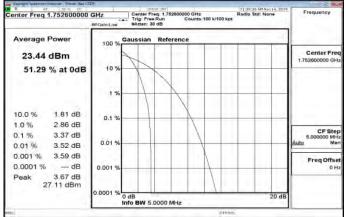
WCDMA B4 LowCH1312-1712.4



WCDMA_B4_MidCH1413-1732.6



WCDMA_B4_HighCH1513-1752.6



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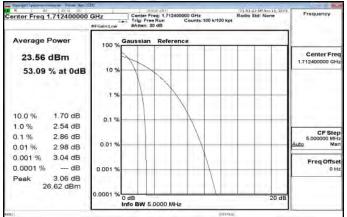
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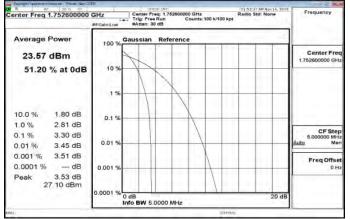
HSDPA_B4_LowCH1312-1712.4



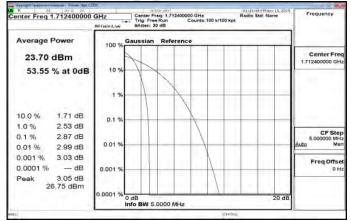
 22/02/2017
 171-52/24 AM Nor14/2
 Center Freq: 1,732600000 GHz
 Radio Std: None
 Trig: Free Run
 Counts:100 k/100 kpt
 Xotes: 10 cluster:100 k/100 kpt Frame Center Freq 1.732600000 GHz Average Power Gaussian Reference 100 % Center Fre 23.45 dBm 173 51.12 % at 0dB 10 9 1 9 10.0 % 1.80 dB 0.1 % 1.0 % 2.81 dB CF Step 5.000000 MHz Man 0.1 % 3 26 dB 0.01 9 0.01 % 3.42 dB 0.001 % 3.46 dB Freq Offse 0.0001 % --- dB 0.001 9 0 H 3.52 dB 26.97 dBm Peak 0.0001 % 20 di 0 dB Info BW 5.0000 MHz

HSDPA_B4_MidCH1413-1732.6

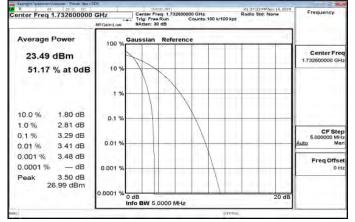
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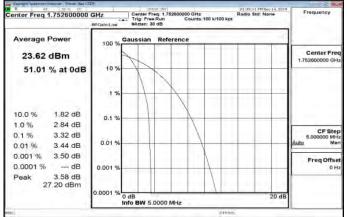
HSUPA B4 LowCH1312-1712.4



HSUPA_B4_MidCH1413-1732.6



HSUPA_B4_HighCH1513-1752.6



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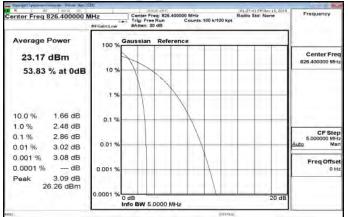
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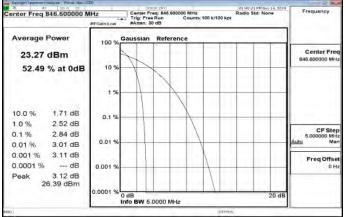
WCDMA_B5_LowCH4132-826.4



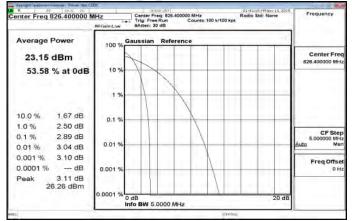
Center Freq: 836,600000 MHz Radio Std: None Trig: Free Run Counts: 100 k/100 kpt #Atten: 30 dB Fram Center Freq 836.600000 MHz Average Power Gaussian Reference 100 % Center Fre 23.29 dBm 53.30 % at 0dB 10 9 1 9 10.0 % 1.69 dB 0.1 % 1.0 % 2.50 dB CF Step 5.000000 MHz Man 0.1 % 2 81 dB 0.01 9 0.01 % 2.93 dB 2.97 dB 0.001 % Freq Offse 0.0001 % --- dB 0.001 9 0 H 3.01 dB 26.30 dBm Peak 0.0001 % 20 di 0 dB Info BW 5.0000 MHz

WCDMA_B5_MidCH4183-836.6

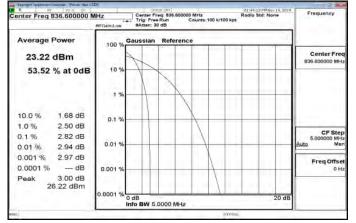
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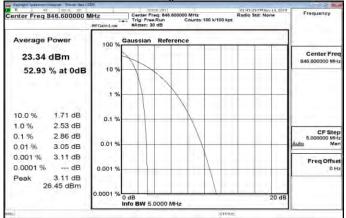
HSDPA B5 LowCH4132-826.4



HSDPA_B5_MidCH4183-836.6



HSDPA_B5_HighCH4233-846.6



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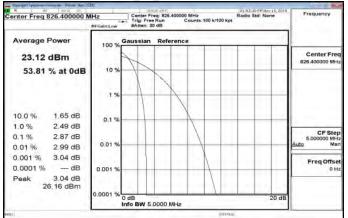
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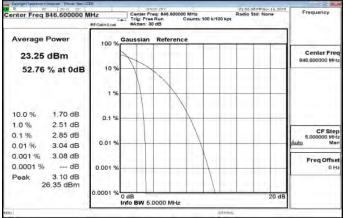
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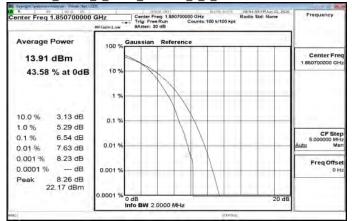
Center Freq: 836.600000 MHz Radio Std: None Trig: Free Run Counts: 100 k/100 kpt #Atten: 20 cfl enter Freq 836.600000 MHz Fram Average Power Gaussian Reference 100 % Center Fre 23.26 dBm 53.27 % at 0dB 10 9 1 9 10.0 % 1.67 dB 0.1 % 1.0 % 2.49 dB CF Step 5.000000 MHz Man 0.1 % 2 80 dB 0.01 9 0.01 % 2.93 dB 2.99 dB 0.001 % Freq Offse 0.0001 % --- dB 0.001 9 0 H 3.01 dB 26.27 dBm Peak 0.0001 % 20 di 0 dB Info BW 5.0000 MHz

HSUPA_B5_MidCH4183-836.6

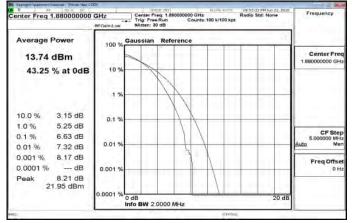
HSUPA_B5_HighCH4233-846.6



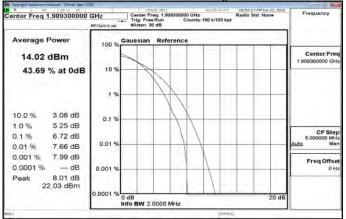
LTE_Band2_1_4MHz_256QAM_6_0_LowCH18607-1850.7



LTE_Band2_1_4MHz_256QAM_6_0_MidCH18900-1880



LTE_Band2_1_4MHz_256QAM_6_0_HighCH19193-1909.3



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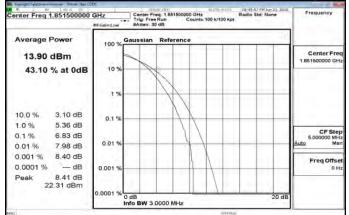
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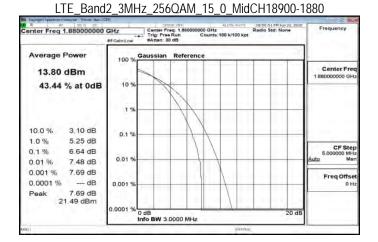
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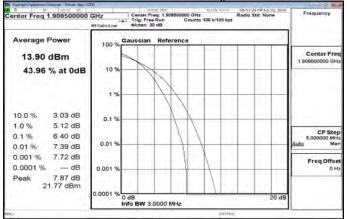


LTE_Band2_3MHz_256QAM_15_0_LowCH18615-1851.5

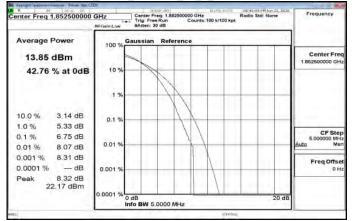




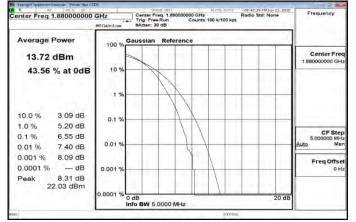
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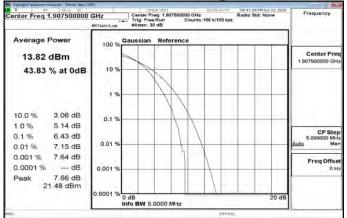
LTE_Band2_5MHz_256QAM_25_0_LowCH18625-1852.5



LTE_Band2_5MHz_256QAM_25_0_MidCH18900-1880



LTE_Band2_5MHz_256QAM_25_0_HighCH19175-1907.5



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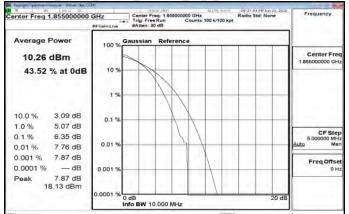
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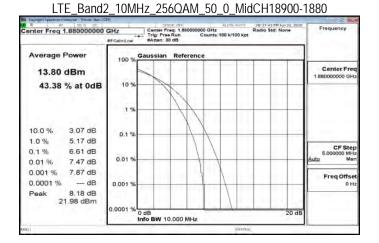
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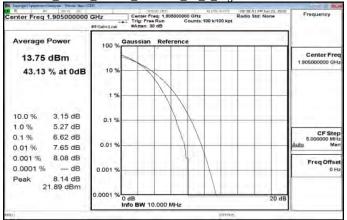


LTE_Band2_10MHz_256QAM_50_0_LowCH18650-1855

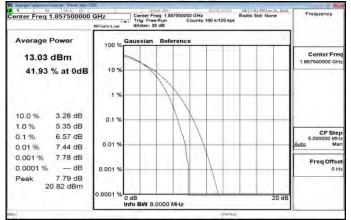




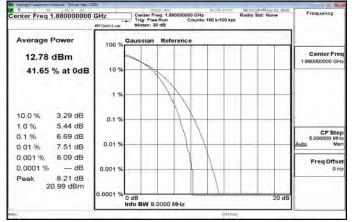
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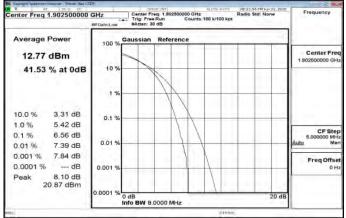
LTE_Band2_15MHz_256QAM_75_0_LowCH18675-1857.5



LTE_Band2_15MHz_256QAM_75_0_MidCH18900-1880



LTE_Band2_15MHz_256QAM_75_0_HighCH19125-1902.5



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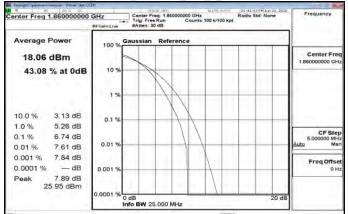
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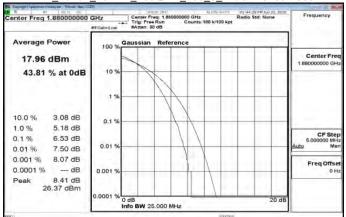
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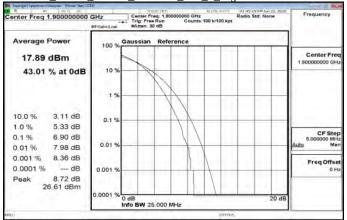
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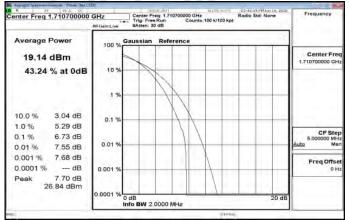


LTE_Band2_20MHz_256QAM_100_0_MidCH18900-1880

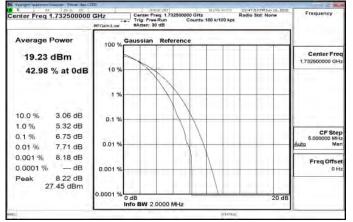
LTE_Band2_20MHz_256QAM_100_0_HighCH19100-1900



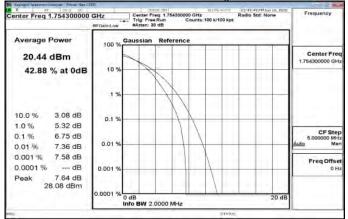
LTE_Band4_1_4MHz_256QAM_6_0_LowCH19957-1710.7



LTE_Band4_1_4MHz_256QAM_6_0_MidCH20175-1732.5



LTE_Band4_1_4MHz_256QAM_6_0_HighCH20393-1754.3



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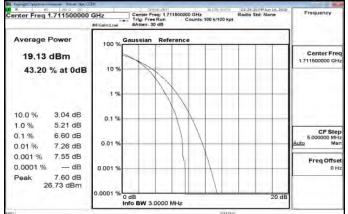
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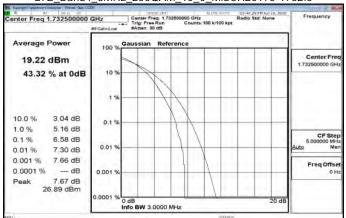
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LTE_Band4_3MHz_256QAM_15_0_LowCH19965-1711.5



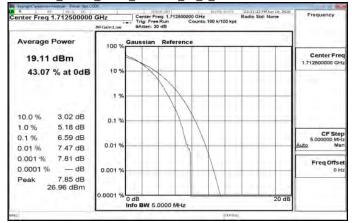


LTE_Band4_3MHz_256QAM_15_0_MidCH20175-1732.5

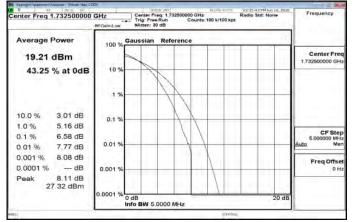
LTE_Band4_3MHz_256QAM_15_0_HighCH20385-1753.5

enter Freq 1.753500000 (dio Std: None Frequency
Average Power	100 % Gaussian Reference	
19.33 dBm		Center Free 1.753500000 GHz
43.42 % at 0dB	10 %	
	1 %	
10.0 % 3,07 dB	0.1 %	
0.1 % 6.56 dB 0.01 % 7.29 dB	0.01 %	CF Ster 5.000000 MH <u>Áuto</u> Mar
0.001 % 7.79 dB 0.0001 % dB	0.001 %	Freq Offse 0 H
Peak 7.80 dB 27.13 dBm	0.0001 %	
	0 dB Info BW 3.0000 MHz	20 dB

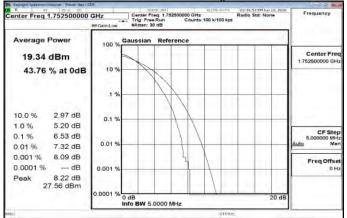
LTE_Band4_5MHz_256QAM_25_0_LowCH19975-1712.5



LTE_Band4_5MHz_256QAM_25_0_MidCH20175-1732.5



LTE_Band4_5MHz_256QAM_25_0_HighCH20375-1752.5



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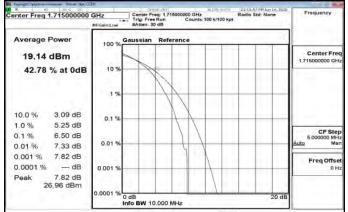
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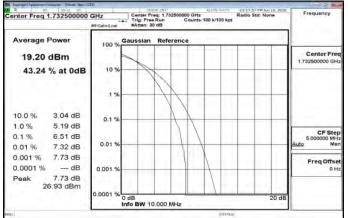
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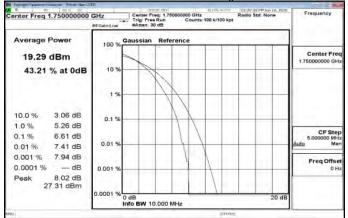
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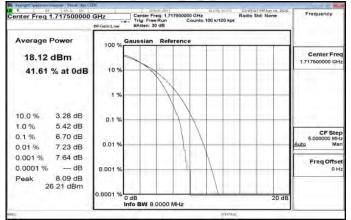
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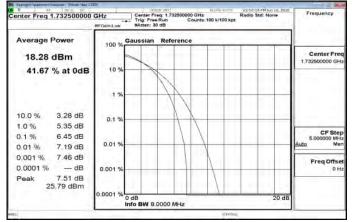
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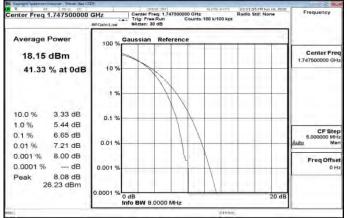
LTE_Band4_15MHz_256QAM_75_0_LowCH20025-1717.5



LTE_Band4_15MHz_256QAM_75_0_MidCH20175-1732.5



LTE_Band4_15MHz_256QAM_75_0_HighCH20325-1747.5



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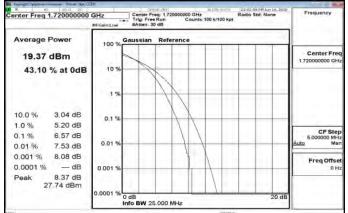
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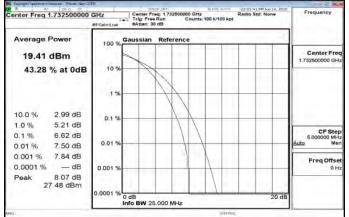
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LTE_Band4_20MHz_256QAM_100_0_LowCH20050-1720



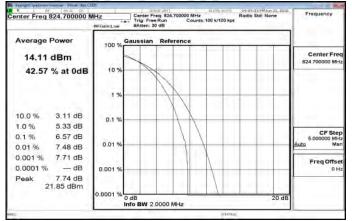
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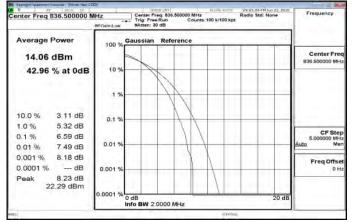
LTE_Band4_20MHz_256QAM_100_0_HighCH20300-1745

Center Freq 1.745000000	SHZ Center Freq: 1745000000 GHz Radio Std: None Trig: Free Run Counta: 100 k/100 kpt #FiseIn:Lnw #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	0
19.32 dBm		Center Freq 1.745000000 GHz
42.36 % at 0dB	10 %	
	1 %	-
10.0 % 3,12 dB	0.1 %	-
0.1 % 6.70 dB 0.01 % 7.49 dB	0.01 %	CF Step 5.000000 MHz Áuto Man
0.001 % 7.79 dB 0.0001 % dB	0.001 %	Freq Offset 0 Hz
Peak 7,89 dB 27,21 dBm		
	0.0001 % 0 dB 20 d	в

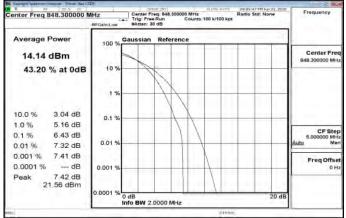
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LTE_Band5_1_4MHz_256QAM_6_0_MidCH20525-836.5



LTE_Band5_1_4MHz_256QAM_6_0_HighCH20643-848.3



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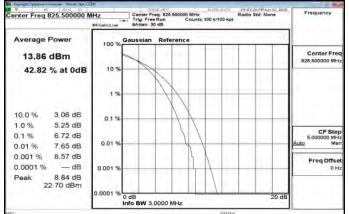
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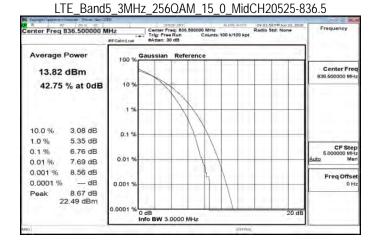
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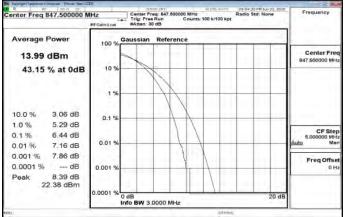


LTE_Band5_3MHz_256QAM_15_0_LowCH20415-825.5

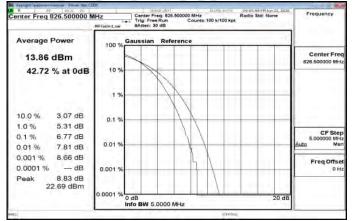




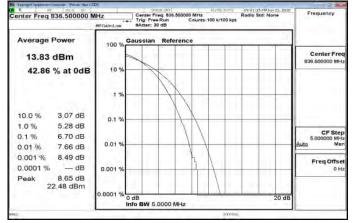
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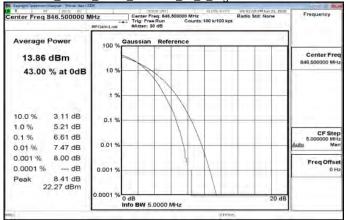
LTE_Band5_5MHz_256QAM_25_0_LowCH20425-826.5



LTE_Band5_5MHz_256QAM_25_0_MidCH20525-836.5



LTE_Band5_5MHz_256QAM_25_0_HighCH20625-846.5



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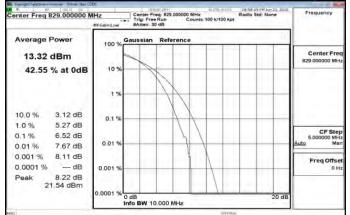
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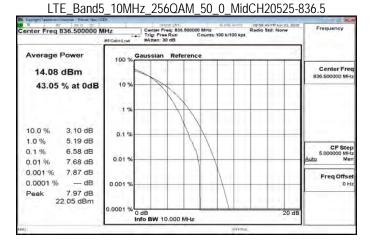
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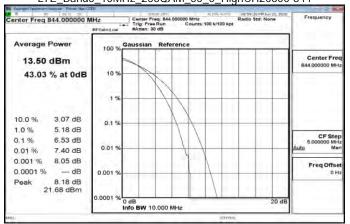


LTE_Band5_10MHz_256QAM_50_0_LowCH20450-829

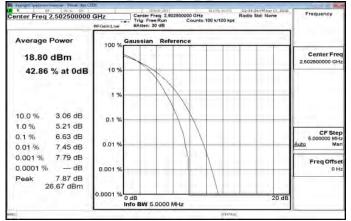




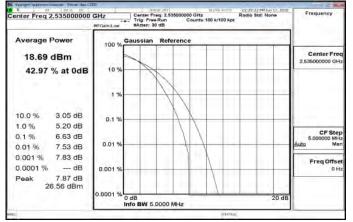
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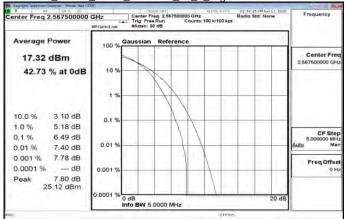
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LTE_Band7_5MHz_256QAM_25_0_MidCH21100-2535



LTE_Band7_5MHz_256QAM_25_0_HighCH21425-2567.5



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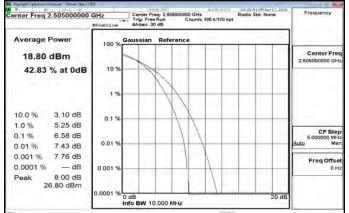
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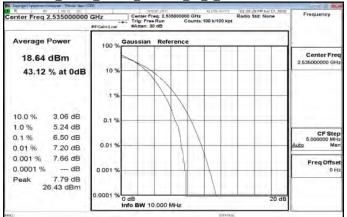
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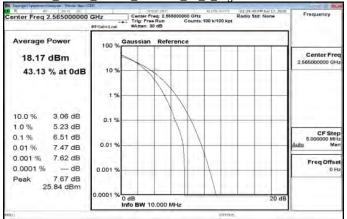
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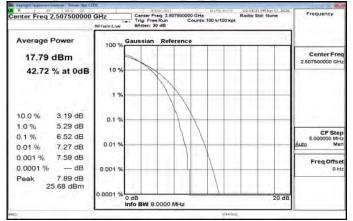


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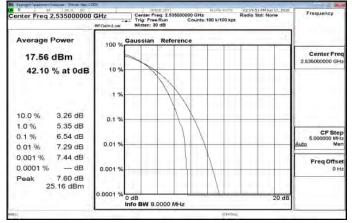
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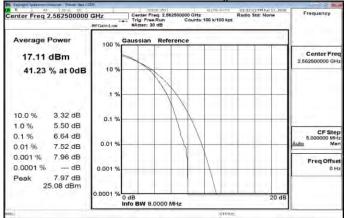
LTE_Band7_15MHz_256QAM_75_0_LowCH20825-2507.5



LTE_Band7_15MHz_256QAM_75_0_MidCH21100-2535



LTE_Band7_15MHz_256QAM_75_0_HighCH21375-2562.5



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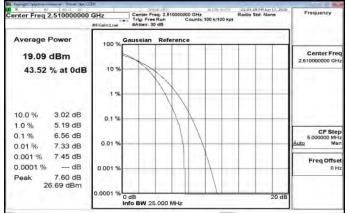
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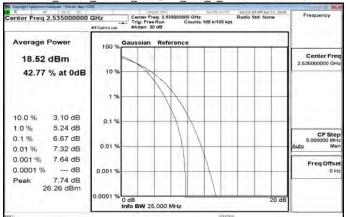
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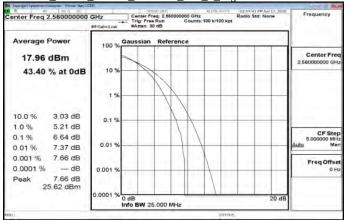
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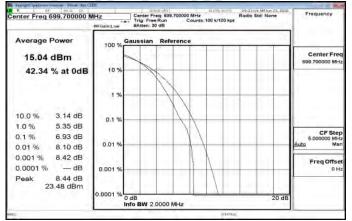


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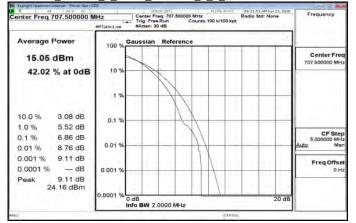
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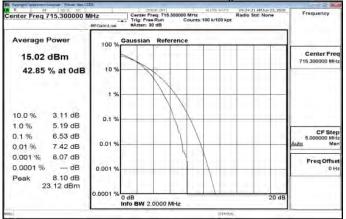
LTE_Band12_1_4MHz_256QAM_6_0_LowCH23017-699.7



LTE_Band12_1_4MHz_256QAM_6_0_MidCH23095-707.5



LTE_Band12_1_4MHz_256QAM_6_0_HighCH23173-715.3



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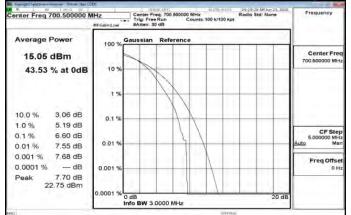
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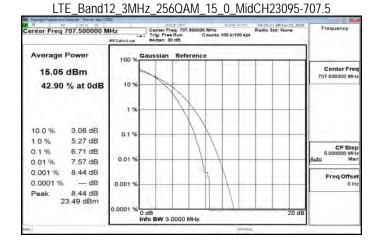
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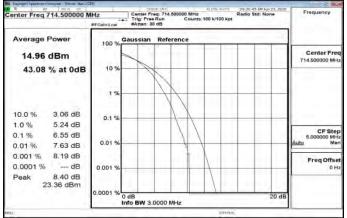


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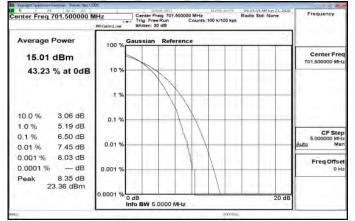




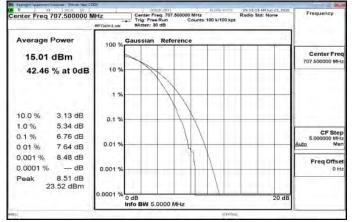
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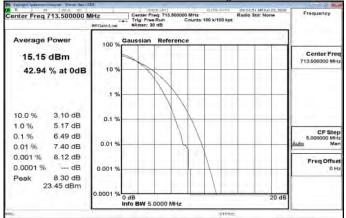
LTE_Band12_5MHz_256QAM_25_0_LowCH23035-701.5



LTE_Band12_5MHz_256QAM_25_0_MidCH23095-707.5



LTE_Band12_5MHz_256QAM_25_0_HighCH23155-713.5



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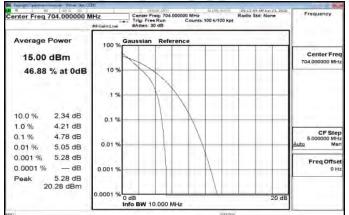
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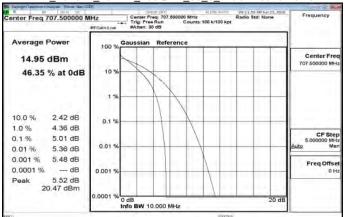
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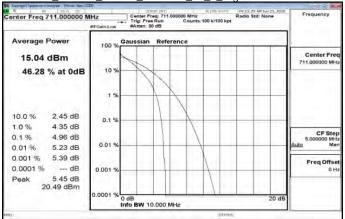
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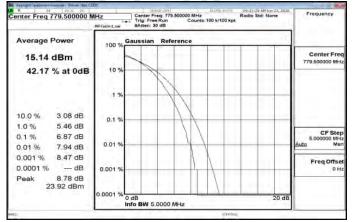


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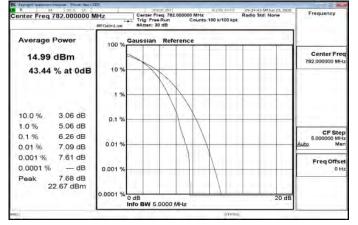
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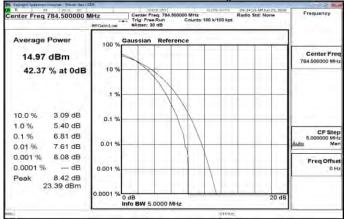
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LTE_Band13_5MHz_256QAM_25_0_MidCH23230-782



LTE_Band13_5MHz_256QAM_25_0_HighCH23255-784.5



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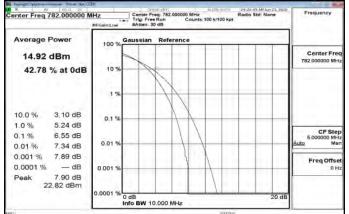
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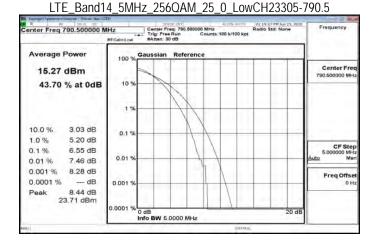
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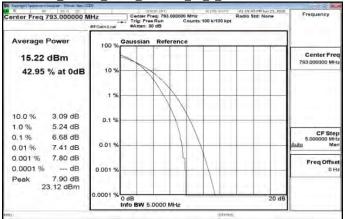


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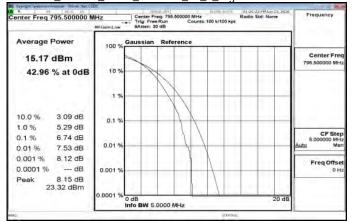




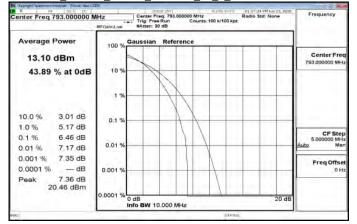
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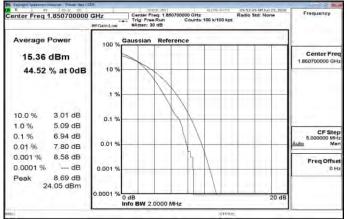
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LTE_Band14_10MHz_256QAM_50_0_MidCH23330-793



LTE_Band25_1_4MHz_256QAM_6_0_LowCH26047-1850.7



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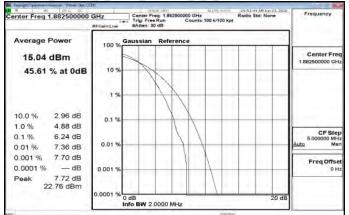
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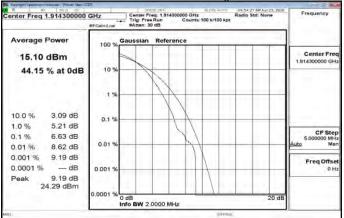
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LTE_Band25_1_4MHz_256QAM_6_0_MidCH26365-1882.5



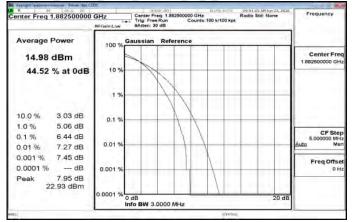




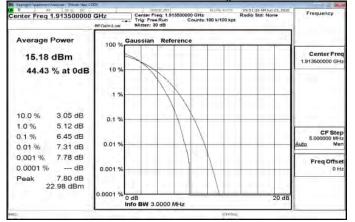
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Average Power	100 % Gaussian Reference	
15.06 dBm		Center Freq 1.85150000 GHz
44.99 % at 0dB	10 %	
	1 %	
10.0 % 2,97 dB	0.1 %	
0.1 % 6.30 dB 0.01 % 7.05 dB	0.01%	CF Step 5.000000 MH <u>Áuto</u> Mar
0.001 % 7.49 dB 0.0001 % dB	0.001 %	Freq Offset
Peak 7.74 dB 22.80 dBm	0.0001 % 0 dB	20.48
22.00 UDIII		20 dB

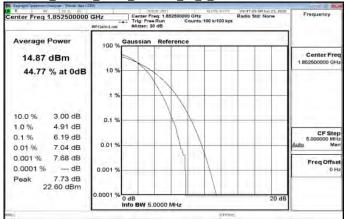
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LTE_Band25_3MHz_256QAM_15_0_HighCH26675-1913.5



LTE_Band25_5MHz_256QAM_25_0_LowCH26065-1852.5



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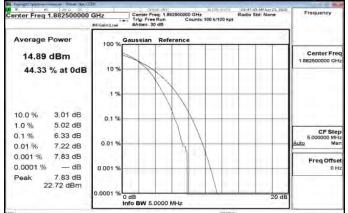
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LTE_Band25_5MHz_256QAM_25_0_MidCH26365-1882.5



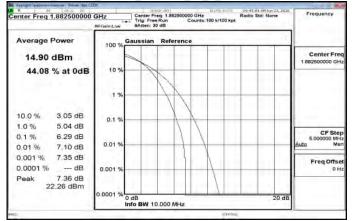
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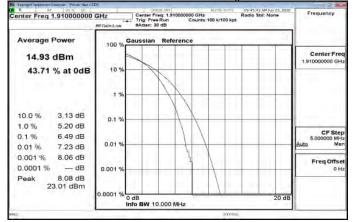
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Center Freg 1.855000000	GHz Center Free, 1,85500000 GHz Radio Std: None Trig: Free Run Counts: 100 ki100 kpt #HGaind.ow #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	0
14.94 dBm		Center Fred 1.855000000 GHz
44.77 % at 0dB	10 %	
	1 %	-
10.0 % 3.01 dB	0.1 %	
0.1 % 6.21 dB 0.01 % 7.27 dB	0.01%	CF Step 5.000000 MH Áuto Mar
0.001 % 7.49 dB 0.0001 % dB	0.001 %	Freq Offse
Peak 7.72 dB 22.66 dBm	0.0001 % 0 dB 20 c	
	Info BW 10.000 MHz	B

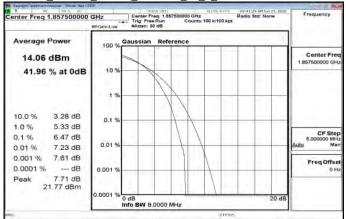
LTE_Band25_10MHz_256QAM_50_0_MidCH26365-1882.5



LTE_Band25_10MHz_256QAM_50_0_HighCH26640-1910



LTE_Band25_15MHz_256QAM_75_0_LowCH26115-1857.5



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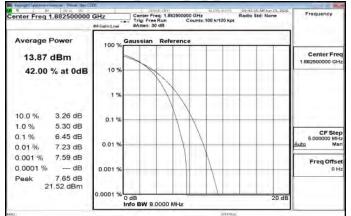
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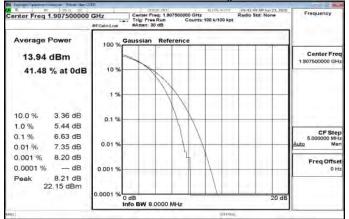
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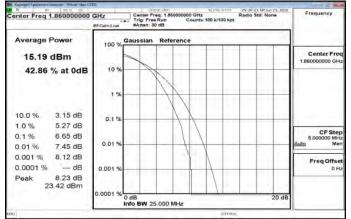
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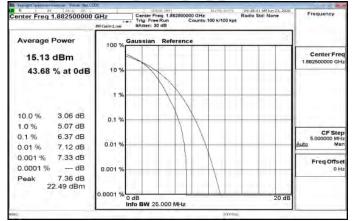
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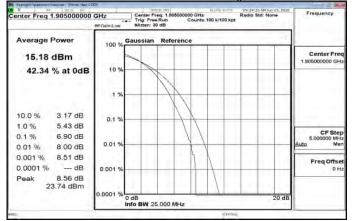
LTE_Band25_20MHz_256QAM_100_0_LowCH26140-1860



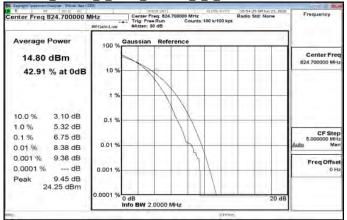
LTE_Band25_20MHz_256QAM_100_0_MidCH26365-1882.5



LTE_Band25_20MHz_256QAM_100_0_HighCH26590-1905



LTE_Band26_1_4MHz_256QAM_6_0_LowCH26797-824.7



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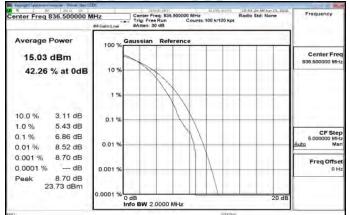
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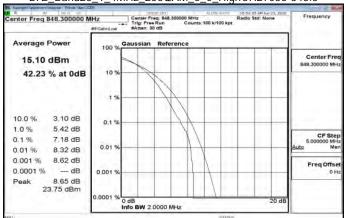
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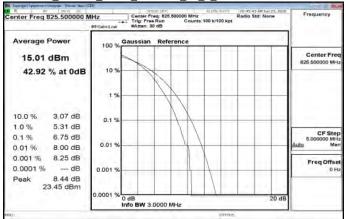
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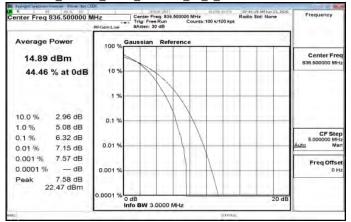


LTE_Band26_1_4MHz_256QAM_6_0_HighCH27033-848.3

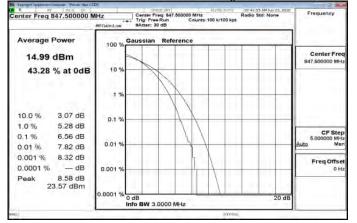
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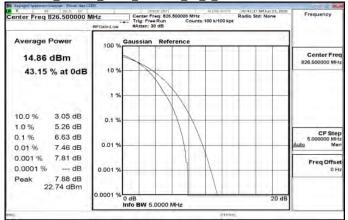
LTE_Band26_3MHz_256QAM_15_0_MidCH26915-836.5



LTE_Band26_3MHz_256QAM_15_0_HighCH27025-847.5



LTE_Band26_5MHz_256QAM_25_0_LowCH26815-826.5



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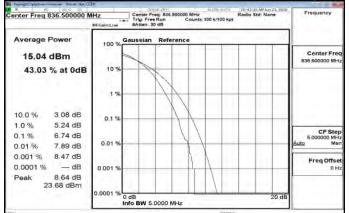
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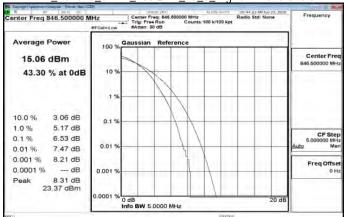
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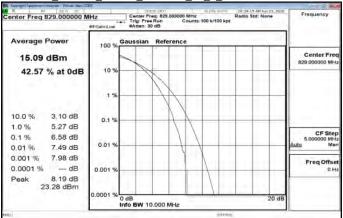
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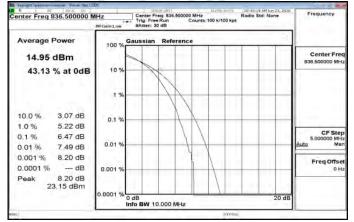


LTE_Band26_5MHz_256QAM_25_0_HighCH27015-846.5

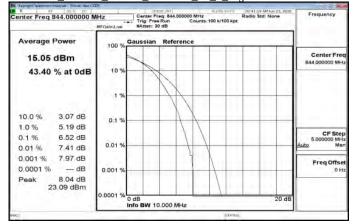
LTE_Band26_10MHz_256QAM_50_0_LowCH26840-829



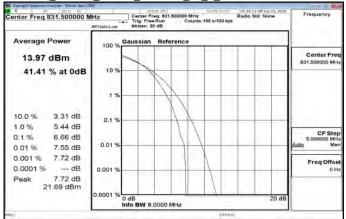
LTE_Band26_10MHz_256QAM_50_0_MidCH26915-836.5



LTE_Band26_10MHz_256QAM_50_0_HighCH26990-844



LTE_Band26_15MHz_256QAM_75_0_LowCH26865-831.5



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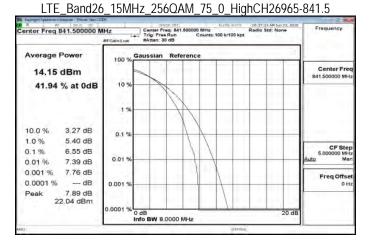
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LTE_Band26_15MHz_256QAM_75_0_MidCH26915-836.5

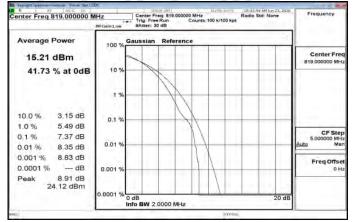
Center Freq 836.500000 M	IZ Center Freq. 836.500000 MHz Radio Std: No Trig: Free Run Counts: 100 k/100 kpt #Gainstow #Atten: 30 dB	
Average Power	100 % Gaussian Reference	
13.99 dBm		Center Freq 836.500000 MHz
41.80 % at 0dB	10 %	
	1%	
10.0 % 3.28 dB	0.1 %	
0.1 % 6.66 dB 0.01 % 7.54 dB	0.01 %	CF Step 5.000000 MH
0.001 % 7.69 dB 0.0001 % dB	0.001 %	Freq Offse
Peak 7.97 dB 21.96 dBm	0.0001 % 0 dB	20 dB



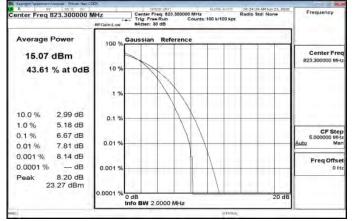
LTE_Band26_Part90s_1_4MHz_256QAM_6_0_LowCH26697-814.7

Center Freq 814,700000 M	Hz Center Freq: 814.700000 MHz Trig: Freq 814.700000 MHz Trig: Freq Run Counts:100 k/100 #Atten: 30 dB	Radio Std: None Frequency
Average Power	100 % Gaussian Reference	
15.14 dBm		Center Free 814.700000 MH
42.84 % at 0dB	10 %	
	1%	
10.0 % 3,03 dB	0.1 %	
0.1 % 7.04 dB 0.01 % 8.46 dB	0.01 %	CF Step 5.00000 MH <u>Auto</u> Mar
0.001 % 8.72 dB 0.0001 % dB	0.001 %	Freq Offse 0 H
Peak 8.73 dB 23.87 dBm	0.0001 %	
	0.0001 % 0 dB Info BW 2.0000 MHz	20 dB

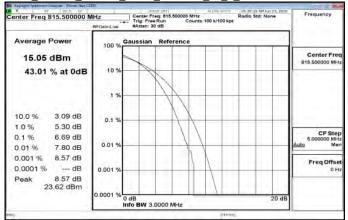
LTE_Band26_Part90s_1_4MHz_256QAM_6_0_MidCH26740-819



LTE_Band26_Part90s_1_4MHz_256QAM_6_0_HighCH26783-823.3



LTE_Band26_Part90s_3MHz_256QAM_15_0_LowCH26705-815.5



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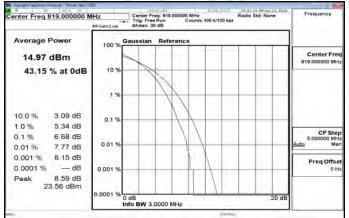
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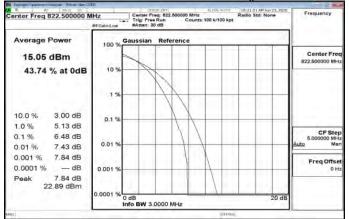
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LTE_Band26_Part90s_3MHz_256QAM_15_0_MidCH26740-819



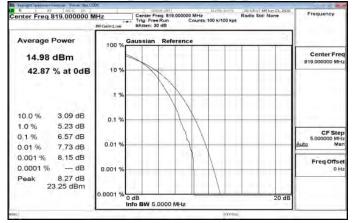
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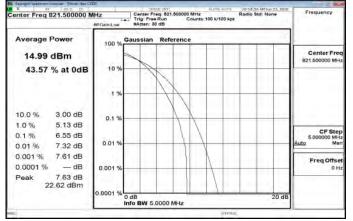
LTE_Band26_Part90s_5MHz_256QAM_25_0_LowCH26715-816.5

R ar (sea, bc) Center Freq 816,500000		d: None Frequency
Average Power	100 % Gaussian Reference	
14.98 dBm		Center Freq 816.500000 MHz
43.14 % at 0dB	10 %	
	1 %	
10.0 % 3.06 dB	0.1 %	
0.1 % 6.70 dB 0.01 % 7.93 dB	0.01%	CF Step 5.00000 MHz Áuto Man
0.001 % 8.53 dB 0.0001 % dB	0.001 %	Freq Offset
Peak 8.60 dB 23.58 dBm		0 42
	0.0001 % 0 dB Info BW 5.0000 MHz	20 dB
eo)	Future	

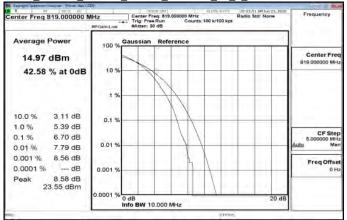
LTE_Band26_Part90s_5MHz_256QAM_25_0_MidCH26740-819



LTE_Band26_Part90s_5MHz_256QAM_25_0_HighCH26765-821.5



LTE_Band26_Part90s_10MHz_256QAM_50_0_MidCH26740-819



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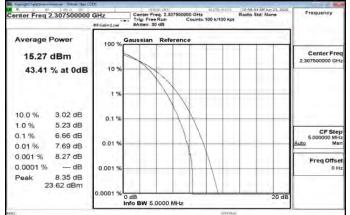
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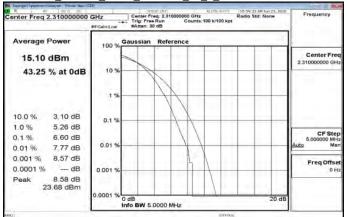
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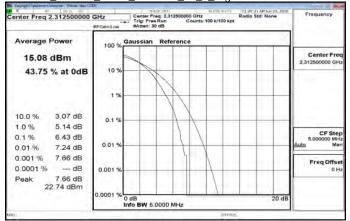
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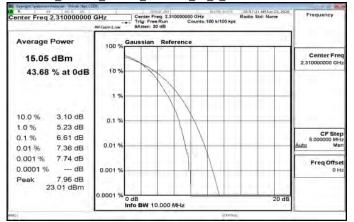


LTE_Band30_5MHz_256QAM_25_0_MidCH27710-2310

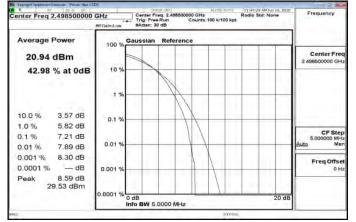
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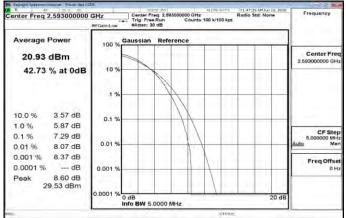
LTE_Band30_10MHz_256QAM_50_0_MidCH27710-2310



LTE_Band41_5MHz_256QAM_25_0_LowCH39675-2498.5



LTE_Band41_5MHz_256QAM_25_0_MidCH40620-2593



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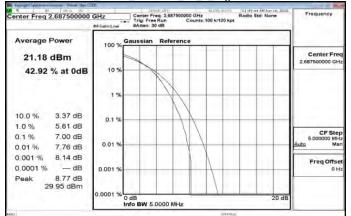
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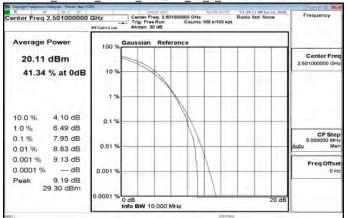
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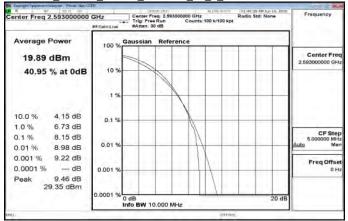
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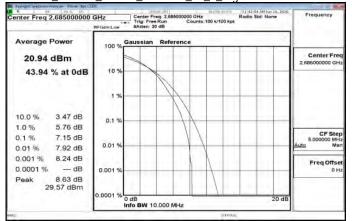


LTE_Band41_10MHz_256QAM_50_0_LowCH39700-2501

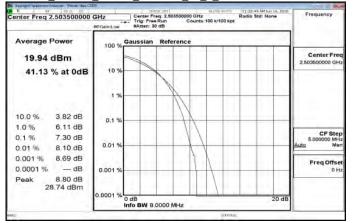
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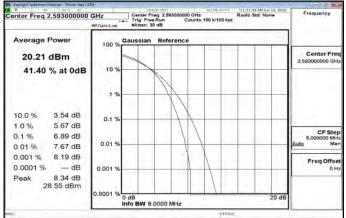
LTE_Band41_10MHz_256QAM_50_0_HighCH41540-2685



LTE_Band41_15MHz_256QAM_75_0_LowCH39725-2503.5



LTE_Band41_15MHz_256QAM_75_0_MidCH40620-2593



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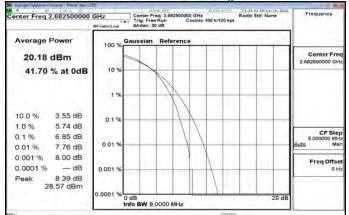
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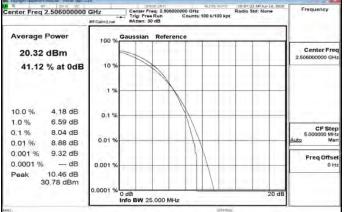
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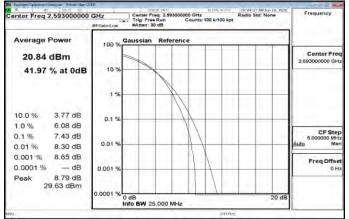
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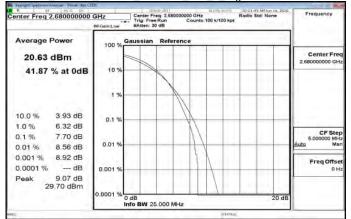
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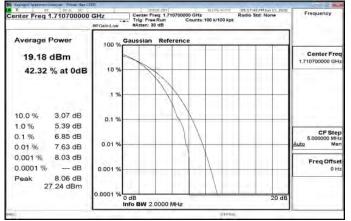
LTE_Band41_20MHz_256QAM_100_0_MidCH40620-2593



LTE_Band41_20MHz_256QAM_100_0_HighCH41490-2680



LTE_Band66_1_4MHz_256QAM_6_0_LowCH131979-1710.7



LTE_Band66_1_4MHz_256QAM_6_0_MidCH132322-1745



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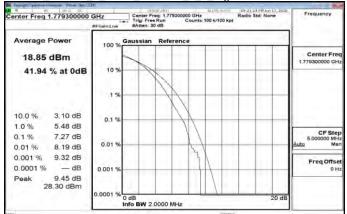
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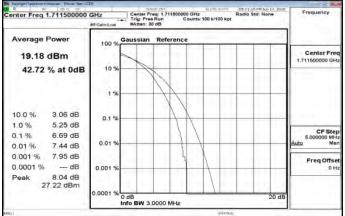
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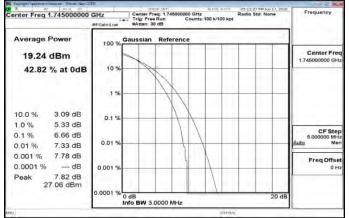
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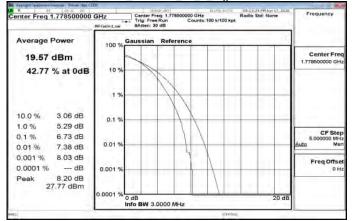
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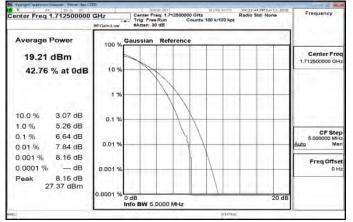
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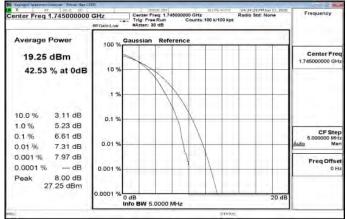
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LTE_Band66_5MHz_256QAM_25_0_LowCH131997-1712.5



LTE_Band66_5MHz_256QAM_25_0_MidCH132322-1745



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