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30MHz~3GHz_Band2 3MHz_QPSK 1 0_LowCH18615-1851.5

3GHz~10GHz_Band2 3MHz_QPSK 1 0_MidCH18900-1880

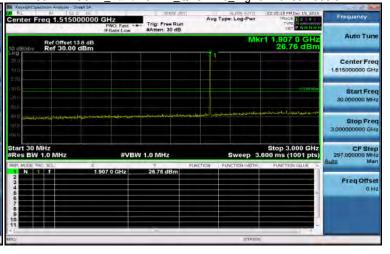
Frequency	g Type: Log-Pwr Trace 1 2 4 Trace 1 2 4 T		Center Freq 11.50000	Frequency	03.3410 PM Dec 19, 2010 TRACE 12, 3, 4, 5, 1 TYPE 14 CONVERSION DET PLATE ALL ALL ALL	Avg Type: Log-Pwr		Center Freq 1.5150000
Auto Tune	Mkr3 5.640 GHz -39.11 dBm	3.8 dB dBm	Ref Offset 13.8 10 dB/div Ref 30.00 dB	Auto Tune	1 1.850 6 GHz 27.01 dBm	Mkr	B n	Ref Offset 13.8 c 10 dE/div Ref 30.00 dB
Center Freq 11.500000000 GHz			2010 10.0 2.55	Center Freq 1.51500000 GHz				20.0 10.0 2.00
Start Freq 3.000000000 GHz	2100 CC		SDG A2	Start Freq 30,000000 MHz	910360			- (p))
Stop Freq 20.00000000 GHz		en an anti-sub-transmission of the state and a state of the		Stop Freq 3.000000000 GHz		appendent and a second and a second provide	الدول من منظمة من الأور الي الأمويستية، ع _{الما} سالي معتبا عيناولي	40.0 minutes in a second secon
CF Step 1.700000000 GHz Auto Man	Stop 20.000 GHz Sweep 28.33 ms (1001 pts)	#VBW 1.0 MHz	Start 3.000 GHz #Res BW 1.0 MHz		Stop 3.000 GHz 500 ms (1001 pts)		#VBW 1.0 MHz	Start 30 MHz #Res BW 1.0 MHz
Freq Offset 0 Hz	FUNCTION WIDTH, FUNCTION VALUE	X FUNCTION 19.082 GHz -31.31 dBm 3.760 GHz -34.94 dBm 5.640 GHz -39.11 dBm	MRR MODE TRC SCL 1 N 1 1 2 N 1 1 3 N 1 1 4 5	Freq Offset 0 Hz	FUNCTION VALUE	FUNCTION , FUNCTION WOTH,	27.01 dBm	MKR MODE TRC SCL
			7 8 9 10 11					7 8 9 10 11
	STATUS		CRW			STATUS		ANRO .

3GHz~10GHz_Band2 3MHz_QPSK 1 0_LowCH18615-1851.5

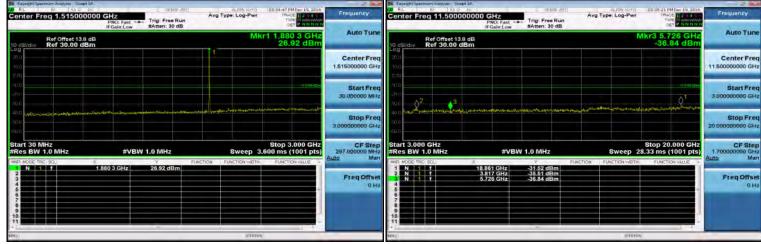
Center Freq 11.50000000	PNO: Fast	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	CIL: 34 (20 PM Dec 19, 2016) TRADE 1, 2, 3, 4, 9, 6 TVPE 14 consecutive OFT 14 restauration	Frequency
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm	IFGain:Low	#Atten: 30 dB	M	r3 5.555 GHz -36.41 dBm	Auto Tuni
2000 10.0					Center Free 11.500000000 GH
λρο 300 <u>Λ</u> 2 3 3			و يوندون و و و و و و و و و و و و و و و و و	107450	Start Free 3,000000000 GH
-to o M L^{om}nnio (*) et el 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 	witten={ ht=personal	angan si sa ngangan sa sa ngalar s		Weine Provide and American	Stop Free 20 000000000 GH
Start 3.000 GHz #Res BW 1.0 MHz	#VBV	/ 1.0 MHz		Stop 20.000 GHz 33 ms (1001 pts)	CF Step 1.700000000 GH Auto Mar
1 N 1 F 1 2 N 1 F 1 7 N 1 F 1 F 1 F 1 F 1 F 1 F 1 F 1 F 1 F 1	9.031 GHz 3.703 GHz 5.555 GHz	-31.74 dBm -37.88 dBm -36.41 dBm	ACTION FONCTION WOTH	+DWCTOW VALUE	Freq Offse OH
10 11 •		-	STATUS		

30MHz~3GHz_Band2 3MHz_QPSK 1 0_MidCH18900-1880

30MHz~3GHz_Band2 3MHz_QPSK 1 0_HighCH19185-1908.5



3GHz~10GHz_Band2 3MHz_QPSK 1 0_HighCH19185-1908.5



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30MHz~3GHz_Band2 5MHz_QPSK 1 0_LowCH18625-1852.5

3GHz~10GHz_Band2 5MHz_QPSK 1 0_MidCH18900-1880

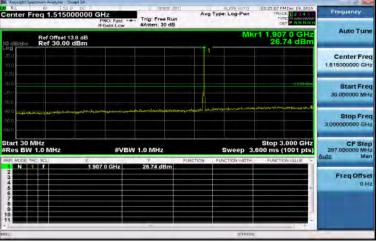
Ref Officet 138 dB MRKT 3, 200 0 GBm Ref Officet 138 dB MRKT 3, 200 0 GBm Center Freq Ref Officet 138 dB MRKT 3, 24 dBm 100 1	Center Freq 1.515000000 GHz Stret WT PNO: Fast Head Stret Run IFGainLow #Atten: 30 dB	Avg Type: Log-Pwr TRACE 12124134	Auguresy O RL AF 1500 CC 2000 300 CH2 2000 300 Avg Type: Log-Pwr Conter Freq 11.500000000 CH2 PW0 Fat +++ Trig: Free Run FrGain.tox 8 Atten: 30 dB	THE PARTY FRAME
100 1515000000 GHz 100 100 115000000 GHz 100 115000000 GHz 100 115000000 GHz 100 115000000 GHz 115000000 GHz </th <th>Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm</th> <th>Mkr1 1,850 6 GHz 27.00 dBm</th> <th>Auto Tune Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm</th> <th>Mkr3 5.640 GHz -37.34 dBm</th>	Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm	Mkr1 1,850 6 GHz 27.00 dBm	Auto Tune Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm	Mkr3 5.640 GHz -37.34 dBm
Start 30 MHz Res BW 1.0 MHz X X Y Res Follow X X Y Res Follow Res Follow X X Y Res Follow Res Foll	20.0	1		Center Freq 11.500000000 GHz
Stop Freq 300000000 GHz Stop Freq 300000000 GHz Stop Freq 300000000 GHz Stop 3000 GHz Stop 30000 GHz Stop 3000 GHz Stop 30000 GHz	400		аборов МН2 501 — А ² 3	01 Start Freq 3.00000000 GHz
#Res BW 1.0 MHz #VEW 1.0 MHz Sweep 3.600 ms (1001 pts) 297.000000 MHz #Res BW 1.0 MHz #VEW 1.0 MHz Sweep 28.33 ms (1001 pts) 1,7000000 Mer Mose TRC SCL x Y Function Function webb H, Functing H, Functing H, Functing H, Function webb H, Function webb H, F	40.0 aug beign auf an genetra and an		Stop Freq	Stop Freq 20 00000000 GHz
WRY MODE THE SEL X T FORCHON WORK FOR CHON WORK FOR CHON WORK FOR CHON WORK ON ALDE *	#Res BW 1.0 MHz #VBW 1.0 MHz	Sweep 3.600 ms (1001 pts)	Man #Res BW 1.0 MHz #VBW 1.0 MHz Sweep	28.33 ms (1001 pts) 1.700000000 GHz
N T 1.850 5 GHz 27.00 dBm Freq Offset 1 N 1 T 18,130 GHz -25.88 dBm Preq 3 3 3 1 1 5.720 GHz -25.88 dBm Preq Preq 4 5 - 0 1 1 5.640 GHz -37.34 dBm Preq 6 - - 0 -	N T T 1,850 8 GHz 27.00 dBm	PORCIONALLE +	1 N 1 f 18.130 GHz -32.31 dBm 2 N 1 f 3.760 GHz -36.68 dBm 3 N 1 f 5.460 GHz -37.34 dBm	Preq Offset 0 Hz

3GHz~10GHz Band2 5MHz QPSK 1 0 LowCH18625-1852.5

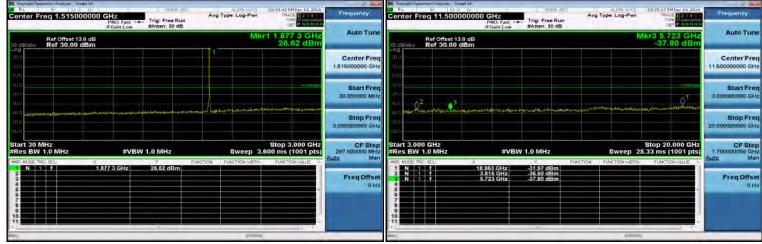
Frequency	02:24:24 PM Dec 19, 2010 TRADE 1, 2, 3, 4, 9 TVPE, PL 0400000000 DET	Avg Type: Log-Pwr	Trig: Free Run #Atten: 30 dB		g 11.50000	enter F
Auto Tune	lkr3 5.558 GHz -38,53 dBm	N	WILLING OUD	3 dB	Ref Offset 13.8 Ref 30.00 dl	dB/div
Center Fred 11.500000000 GH						10 10
Start Free 3.000000000 GH	2100-00				3	0
Stop Fred 20.00000000 GH		and a state of the second second	ana an	an harden an state and a second a	(1.)*4), (1.)	
CF Step 1,700000000 GHJ Auto Mar	Stop 20.000 GHz 3.33 ms (1001 pts)	Sweep 21	V 1.0 MHz	#VB\	.0 MHz	art 3.00 es BW
Freq Offset 0 Hi	-		-32.60 dBm -37.83 dBm -38.53 dBm	19.099 GHz 3.705 GHz 5.558 GHz	r r	N N N
		STATUS				

30MHz~3GHz_Band2 5MHz_QPSK 1 0_MidCH18900-1880

30MHz~3GHz_Band2 5MHz_QPSK 1 0_HighCH19175-1907.5



3GHz~10GHz_Band2 5MHz_QPSK 1 0_HighCH19175-1907.5



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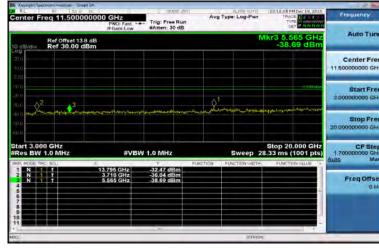
Report No.: ER/2016/C0032 Page 228 of 399

30MHz~3GHz_Band2 10MHz_QPSK 1 0_LowCH18650-1855

3GHz~10GHz_Band2 10MHz_QPSK 1 0_MidCH18900-1880

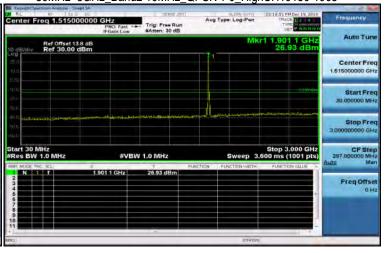
Of RL DF Static Social Static Social	Frequency	ML NUT Sold Dec Streed and Sold Processing Sold Dec	Frequency
Ref Offset 13.8 dB Mkr1 1,850 6 GHz 10 dB/dw Ref 30.00 dBm 27,05 dBm	Auto Tune	Ref Offset 13.8 dB Mkr3 5.640 GHz Vo dBrdiv Ref 30.00 dBm -37.88 dBm	Auto Tune
	Center Freq 1.515000000 GHz	200 100	Center Freq 11.500000000 GHz
201	Start Freq 30,000000 MHz		Start Freq 3.000000000 GHz
140 D	Stop Freq 3.000000000 GHz	TO D WARD AND A WARD AND A REAL PROPERTY A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REA	Stop Freq 20.00000000 GHz
Start 30 MHz Stop 3.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 3.000 stop stop 100 pts wer worder is Sub x Y Function Function Function	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz Stop 20.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) work inder the Solution of the Soluti	CF Step 1.700000000 GHz Auto Man
N T 1.850 5 GHz 27.05 dBm	Freq Offset 0 Hz	1 N 1 F 19 303 GHz -31 67 dBm 2 N 1 F 3.769 GHz -37.87 dBm N F 5.640 GHz -37.88 dBm	Freq Offset 0 Hz
autra contra		• Contraction (Contraction)	-

3GHz~10GHz_Band2 10MHz_QPSK 1 0_LowCH18650-1855

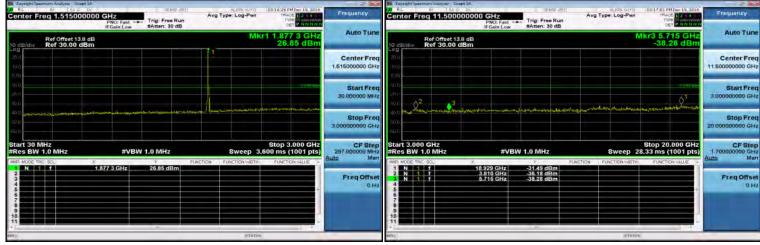


30MHz~3GHz_Band2 10MHz_QPSK 1 0_MidCH18900-1880

30MHz~3GHz_Band2 10MHz_QPSK 1 0_HighCH19150-1905



3GHz~10GHz_Band2 10MHz_QPSK 1 0_HighCH19150-1905



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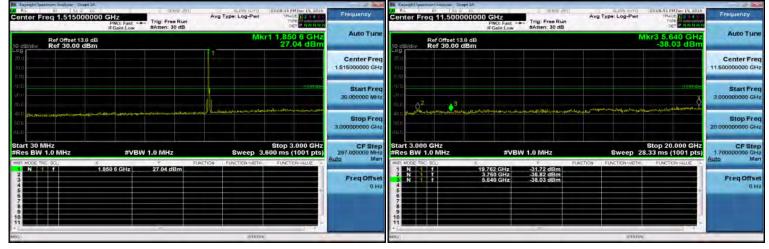
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30MHz~3GHz_Band2 15MHz_QPSK 1 0_LowCH18675-1857.5

3GHz~10GHz_Band2 15MHz_QPSK 1 0_MidCH18900-1880

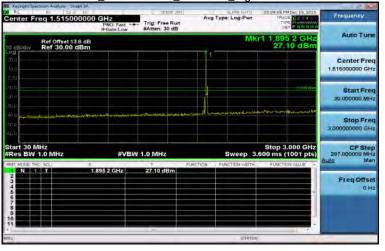


3GHz~10GHz_Band2 15MHz_QPSK 1 0_LowCH18675-1857.5

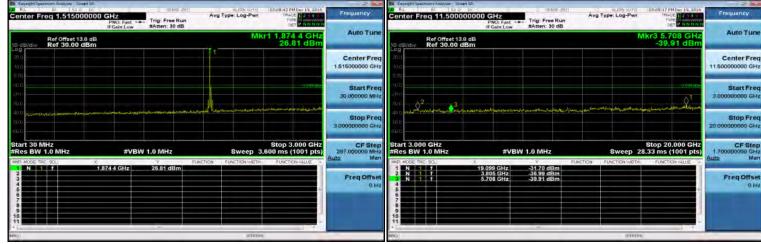
RL R/ Sh C DC		SPACE OWN	ALION AUTO	G2:08:24 PM Dec 19, 2016	
enter Freq 11.5000000			Avg Type: Log-Pwr	TRADE D 2 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Frequency
Ref Offset 13.8 dB	- Contraction		N	lkr3 5.573 GHz -37.65 dBm	Auto Tun
2010					Center Fre 11.500000000 GH
100 200 201 A2 A3				9107d0	Start Fre 3.000000000 GH
40 0 400¹⁹************************************	and defailed and and	deren alexante approprie	And and a second se		Stop Fre 20 00000000 GH
Start 3.000 GHz #Res BW 1.0 MHz	#VBW	/ 1.0 MHz		Stop 20.000 GHz 8.33 ms (1001 pts)	CF Ste 1.70000000 GH Auto Ma
2 N 1 T 3 N 1 F 4 5	8.997 GHz 3.715 GHz 5.573 GHz	-32.23 dBm -36.14 dBm -37.65 dBm	INCTION : FUNCTION WIDTH	FUNCTION VALUE >	Freq Offse 0 H
6 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9					
• [0.00	STATUS	14	

30MHz~3GHz_Band2 15MHz_QPSK 1 0_MidCH18900-1880

30MHz~3GHz_Band2 15MHz_QPSK 1 0_HighCH19125-1902.5



3GHz~10GHz_Band2 15MHz_QPSK 1 0_HighCH19125-1902.5



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Report No.: ER/2016/C0032 Page 230 of 399

30MHz~3GHz_Band2 20MHz_QPSK 1 0_LowCH18700-1860

3GHz~10GHz_Band2 20MHz_QPSK 1 0_MidCH18900-1880

30MHz~3GHz Band2 20MHz QPSK 1 0 HighCH19100-1900

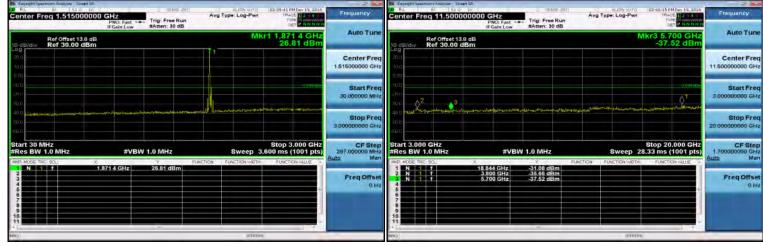
OR RL NU ISLO DC STREET AND INCOMENTS DC STREET AND I	Frequency	AL AV 1.500 DO0000 GHz Center Freq 11.500000000 GHz PND: Fast Trig: Free Run Ficanico # Atter: 30 dB	Frequency
Ref Offset 13.8 dB Mkr1 1,850 6 GH	Auto Tune	Ref Offset 13.8 dB Mkr3 5.640 GHz 10 dB/div Ref 30.00 dBm -38.22 dBm	Auto Tune
	Center Freq 1.515000000 GHz		Center Freq 11.500000000 GHz
301).	30,000000 MHz	$\frac{\partial n}{\partial t}$ $\frac{\partial^2}{\partial t}$ $\frac{\partial^3}{\partial t}$	Start Freq 3,00000000 GHz
400 martin and a state of the s	Stop Freq 3.000000000 GHz	10 1 Hours of the second state of the second s	Stop Freq 20 00000000 GHz
Start 30 MHz #VEW 1.0 MHz Stop 3.000 GH #Res BW 1.0 MHz #VEW 1.0 MHz Sweep 3.600 ms (1001 pt) Mar MOS TK2 Y Function Function	S) CF Step 297.000000 MHz Auto Man	Start 3.000 GHz #VBW 1.0 MHz Stop 20.000 GHz #Res BW 1.0 MHz #VEW 1.0 MHz Sweep 28.33 ms (1001 pts) west work Free Sci. x x Flattow work	CF Step 1.700000000 GHz Auto Man
1 N 1 f 1,850 6 GHz 26.94 dBm 3 - - - - - 4 - - - - - 5 - - - - - -	Freq Offset 0 Hz	1 N 1 f 18.44 GHz - 31.65 dBm 2 N 1 f 3.760 GHz - 36.76 dBm 3 N 1 f 5.640 GHz - 38.22 dBm 4 5	Freq Offset 0 Hz
NRO STATUS		contartes (cont	

3GHz~10GHz Band2 20MHz QPSK 1 0 LowCH18700-1860

1150000000 GHz 11500	Bill Knywghtt Spectrum Analyzer - Strapt SA	212	Keyanght Spectrum Analyze - Strapt SA	S. 20 100
Ref Offset 13.8 dB Ref Offset 13.8 dB Ref Offset 13.8 dB Ref Offset 13.8 dB 0 dB/dw Ref 30.00 dBm 33.85 dBm Ref 30.00 dBm 27.01 dBm Center Freq 1 dB/dw Ref 30.00 dBm 1 1 Center Freq Center Fr	Center Freq 11.500000000 GHz Avg Type: Log-Pwr TRect D2.3451		Center Freq 1.515000000 GHz Avg Type: Log-Pwr Trice Past Trig: Free Run	
1150000000 GHz 11500		Auto Tune		Auto Tune
Start Freq Start 3.000 GHz Start 1 4 Start 30 MHz Start 3				Center Freq 1.515000000 GHz
Stop Freq Stop Freq <t< td=""><td>δ² μ3</td><td></td><td>400 80</td><td>Start Freq 30.000000 MHz</td></t<>	δ ² μ3		400 80	Start Freq 30.000000 MHz
#Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) 3,70000000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 3.600 ms (1001 pts) 287,000000 MHz MRE NOE TRC SQL X Y FUNCTION MDTH FUNCTION MDTH<	-10 - 2 - 4444/ ³ - 4			Stop Freq 3.000000000 GH/
1 N 1 19,218 GHz -32,40 dBm 1 1 1 1,892 2 GHz 27.01 dBm 2 N 1 7 3,720 GHz -35,14 dBm Freq Offset 2 3 3 5 5 6 Freq Offset 3 5 6 7	#Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts)	1.700000000 GHz	#Res BW 1.0 MHz #VBW 1.0 MHz Sweep 3.600 ms (1001 pts)	CF Step 297.000000 MHz uto Man
	2 N 1 t 3.720 GHz -36.14 dBm			Freq Offset 0 Hz
	6 7 8 9 9 10			
Non-transferration of the second seco				

30MHz~3GHz_Band2 20MHz_QPSK 1 0_MidCH18900-1880

3GHz~10GHz_Band2 20MHz_QPSK 1 0_HighCH19100-1900



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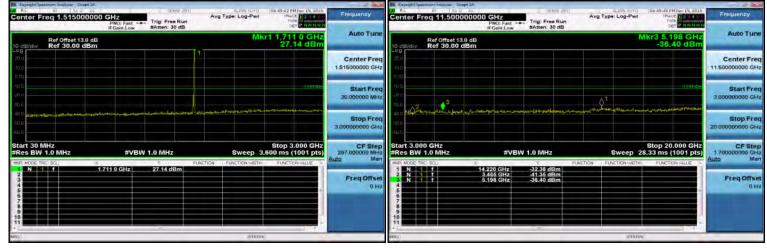
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Report No.: ER/2016/C0032 Page 231 of 399

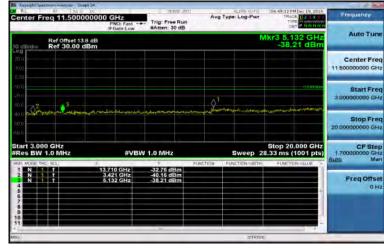


30MHz~3GHz_Band4 1.4MHz_QPSK 1 0_LowCH19957-1710.7

3GHz~10GHz_Band4 1.4MHz_QPSK 1 0_MidCH20175-1732.5

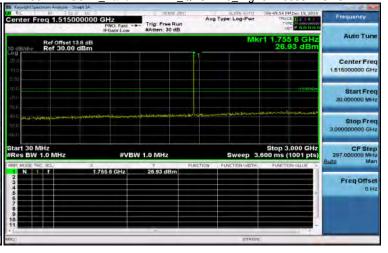


3GHz~10GHz_Band4 1.4MHz_QPSK 1 0_LowCH19957-1710.7

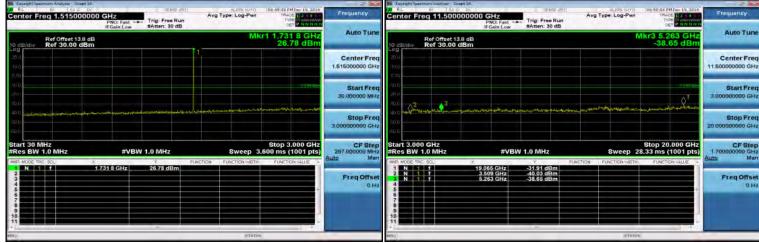


30MHz~3GHz_Band4 1.4MHz_QPSK 1 0_MidCH20175-1732.5

30MHz~3GHz_Band4 1.4MHz_QPSK 1 0_HighCH20393-1754.3



3GHz~10GHz_Band4 1.4MHz_QPSK 1 0_HighCH20393-1754.3



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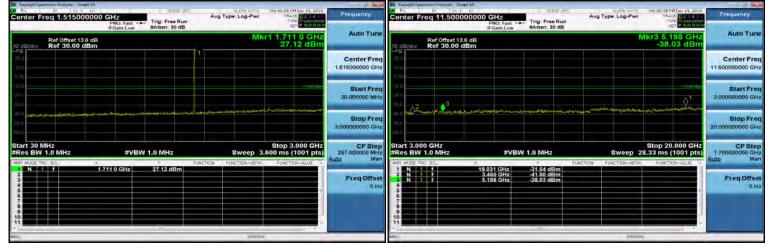
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30MHz~3GHz_Band4 3MHz_QPSK 1 0_LowCH19965-1711.5

3GHz~10GHz_Band4 3MHz_QPSK 1 0_MidCH20175-1732.5

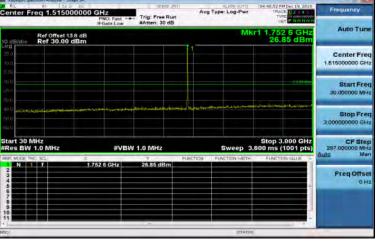


3GHz~10GHz_Band4 3MHz_QPSK 1 0_LowCH19965-1711.5

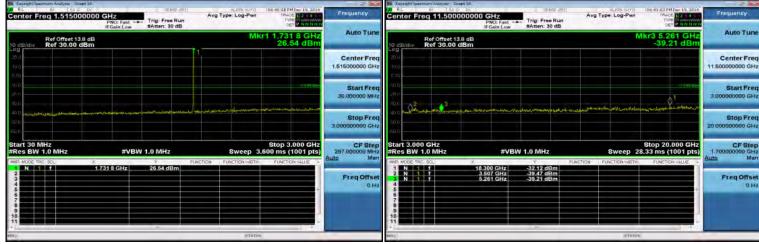
RL RU Store DC 1 Center Freq 11.50000000	O GHZ PNO: Fast	Avg Type: Log-Pwr	04-40:10 PM Dec 19, 2010 TRACE 12, 24 4 TVPE 20 0000000000 OET 10 NO 10 0000	Frequency	Center Freq 1.5
Ref Offset 13.8 dB Ref 30.00 dBm		M	lkr3 5.135 GHz -37.17 dBm	Auto Tune	10 dB/div Ref 3
2000 1000 1270				Center Freq 11.500000000 GHz	20.0 10.0 13.0
300 x2 3			0100€e	Start Freq 3.000000000 GHz	400 500 300
40 0 2000	denantik yek-lengener min di siya jek delan di dan dega	- galan ang ang ang ang ang ang ang ang ang a		Stop Freq 20 00000000 GHz	40 0
Start 3.000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 28	Stop 20.000 GHz 3.33 ms (1001 pts)	CF Step 1.70000000 GHz Auto Man	Start 30 MHz #Res BW 1.0 MH
1 N 1 f 11	8.470 GHz -31 29 dBm 3.423 GHz -40 21 dBm 5.135 GHz -37.17 dBm		FORCIONVADE	Freq Offset 0 Hz	1 N 1 T 2 3
6 7 8 9 10					6 7 8 9 10
11 •		STATUS			11

30MHz~3GHz_Band4 3MHz_QPSK 1 0_MidCH20175-1732.5

30MHz~3GHz_Band4 3MHz_QPSK 1 0_HighCH20385-1753.5



3GHz~10GHz_Band4 3MHz_QPSK 1 0_HighCH20385-1753.5



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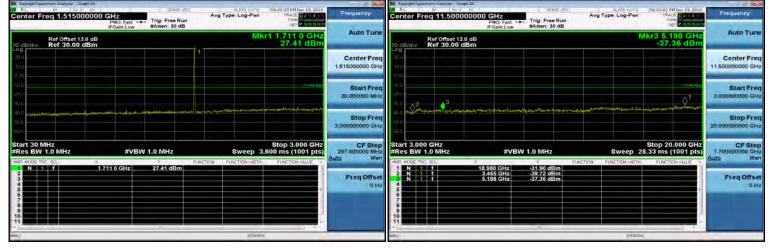
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30MHz~3GHz_Band4 5MHz_QPSK 1 0_LowCH19975-1712.5

3GHz~10GHz_Band4 5MHz_QPSK 1 0_MidCH20175-1732.5

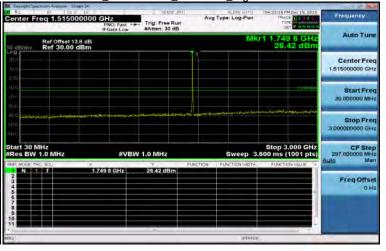


3GHz~10GHz_Band4 5MHz_QPSK 1 0_LowCH19975-1712.5

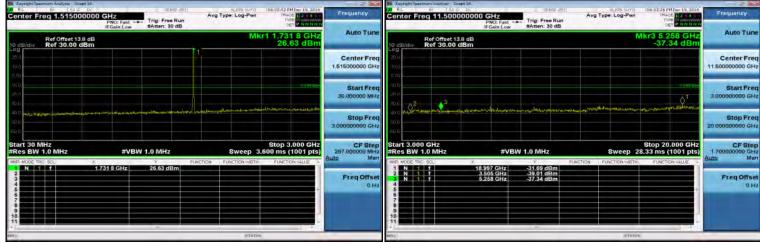
Center Freq 11.50000000	PNO: Fast	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	04:32:34 PM Dec 19, 2010 TRADE 11,2,3,4,20 TVPE PL WARMANN DET PLN REALING	Frequency
Ref Offset 13.8 dB Ref 30.00 dBm			M	4r3 5.138 GHz -39,18 dBm	Auto Tun
000 000					Center Fre 11.500000000 GF
00 00 01 <u>72</u> 3			المراجع والمراجع ووالمراجع ووالمراجع ووالمراجع ووالمراجع والمراجع والمراجع والمراجع والمراجع ووالمرا	-100 cm	Start Fre 3.000000000 GF
6 0 	one de la constanti de la const	9: A.L., 1-40: 24 - 44 - 44 - 44 - 44 - 44 - 44 - 44			Stop Fre 20.00000000 GH
tart 3.000 GHz Res BW 1.0 MHz	#VBV	V 1.0 MHz	Sweep 28	Stop 20.000 GHz 33 ms (1001 pts)	CF Ste 1.70000000 GH Auto Ma
1 N 1 F 11 2 N 1 F 4 5 6 7	9.371 GHz 3.425 GHz 5.138 GHz	-32.00 dBm -40.03 dBm -39.18 dBm		-	Freq Offse 0 H
		-			

30MHz~3GHz_Band4 5MHz_QPSK 1 0_MidCH20175-1732.5

30MHz~3GHz_Band4 5MHz_QPSK 1 0_HighCH20375-1752.5



3GHz~10GHz_Band4 5MHz_QPSK 1 0_HighCH20375-1752.5



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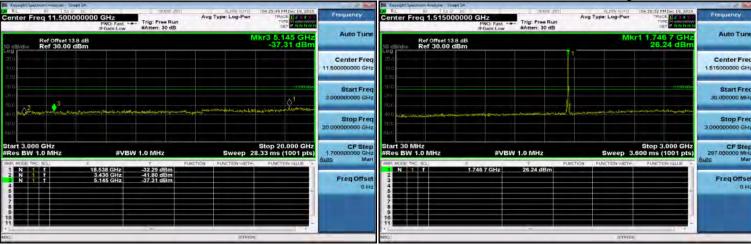
Report No.: ER/2016/C0032 Page 234 of 399

30MHz~3GHz_Band4 10MHz_QPSK 1 0_LowCH20000-1715

3GHz~10GHz_Band4 10MHz_QPSK 1 0_MidCH20175-1732.5

	NO: Fast Trig: Free Run Gain:Low #Atten: 30 dB	Avg Type: Log-Pwr	104-25:39 PM Dec 19, 2010 TRADE 1 24:44 T Type 10 DET P NIN 1010	requercy	Center Freq 11.5000	00000 GHz	sense avr A g: Free Run tten: 30 dB	vg Type: Log-Pwr	04-26:10 PM Dec 19, 2010 TRACE 1, 2, 3, 4, 9 TRACE 1, 2, 3, 4, 9	Frequency
Ref Offset 13.8 dB		Mk	27.07 dBm	Auto Tune	Ref Offset 13.	8 dB 1Bm		M	kr3 5.198 GHz -37.71 dBm	Auto Tune
20.0 10.0 17.0				Center Freq 1.515000000 GHz	2010 10:0 1:10					Center Freq 11.500000000 GHz
400 2011				Start Freq 30,000000 MHz	300 x2 3	يورونور الله مد ^ر ارويا الدور الله ورارويا المديني				Start Freq 3.000000000 GHz
40.0 <mark></mark>	Langer and granter and and have		Asettalian dan menangkan da	Stop Freq 3,00000000 GHz		in parties The article is a straight day that the	Mart (margara a par	or an annual for a start at the start of the	Viritin Contraction and a second	Stop Freq 20.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz MRR MODE TRC: SCL x	#VBW 1.0 MHz	the second s	Stop 3.000 GHz .600 ms (1001 pts)	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz #Res BW 1.0 MHz	#VBW 1.0	MHz FUNCTION	Sweep 28.	Stop 20.000 GHz 33 ms (1001 pts)	CF Step 1,70000000 GHz Auto Man
	0 GHz 27.07 dBm			Freq Offset 0 Hz	1 N 1 f 2 N 1 f 3 N 1 f 4	19.133 GHz -31 3.465 GHz -40	145 dBm 131 dBm 1.71 dBm			Freq Offset 0 Hz
7 8 9 9 10 11					7 8 9 10 11					
MBG		STÁTUS	-		MBQ			státus		

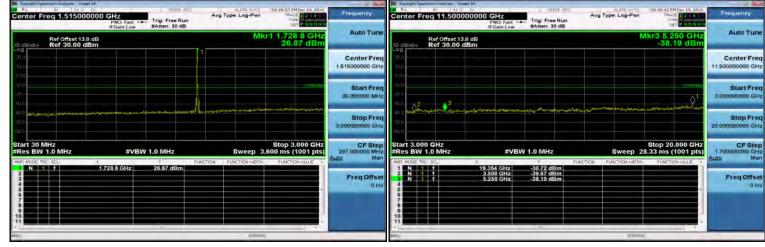
3GHz~10GHz_Band4 10MHz_QPSK 1 0_LowCH20000-1715



30MHz~3GHz_Band4 10MHz_QPSK 1 0_MidCH20175-1732.5

3GHz~10GHz_Band4 10MHz_QPSK 1 0_HighCH20350-1750

30MHz~3GHz_Band4 10MHz_QPSK 1 0_HighCH20350-1750



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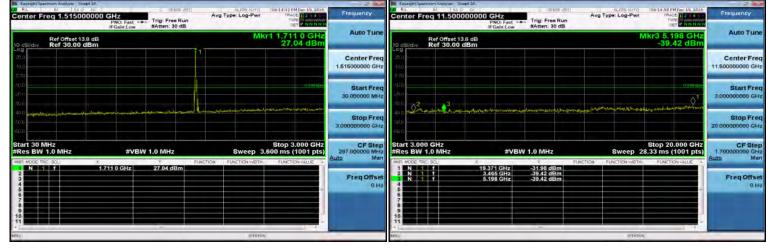
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30MHz~3GHz_Band4 15MHz_QPSK 1 0_LowCH20025-1717.5

3GHz~10GHz_Band4 15MHz_QPSK 1 0_MidCH20175-1732.5

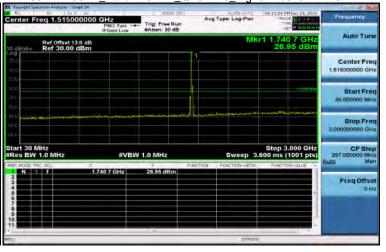


3GHz~10GHz_Band4 15MHz_QPSK 1 0_LowCH20025-1717.5

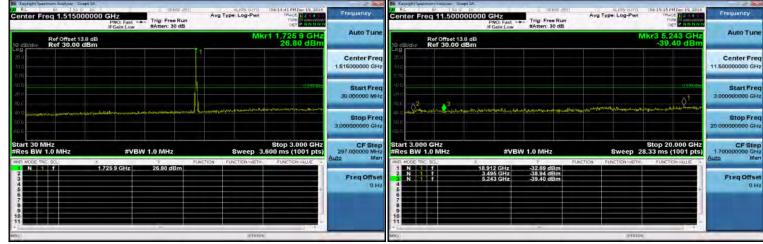
00 GHz PND East and Trig: Free Run	Avg Type: Log-Pwr	04:14:23 PM Dec 19, 2016 TRADE 1 2 3 4 5 Type 10 000000000	Frequency
IFGain:Low #Atten: 30 dB	M		Auto Tune
			Center Fred 11.50000000 GH
		-i ioneco	Start Freq 3.000000000 GHz
rteltinungan itapa pranje timoj - Ni mu positika fordanje. Na	and the second		Stop Freq 20 00000000 GH
#VBW 1.0 MHz	Sweep 28.	33 ms (1001 pts)	CF Step 1.70000000 GHz Auto Man
19.167 GHz -31.16 dBm 3.435 GHz -40.77 dBm 5.163 GHz -37.91 dBm	ACTOR TRACTOR MOTIN	PORCHON VALUE	Freq Offset 0 Hz
	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB #Atten: 30 dB #WBW 1.0 MHz #VBW 1.0 MHz 19.167 GHz	TYO: Fort Trig: Free Run IFGain:Low #Atten: 30 dB M #Uter: 30 dB #Uter: 30 dB #Uter: 30 dB #Uter: 31 dB #Ut	Mole Fact Trig: Free Run #Atten: 30 dB Trig: Free Run #Atten: 30 dB If Gain Low Hig: Free Run #Atten: 30 dB Mkr3 5: 153 GHz -37.91 dBm #Wey and the state of the state

30MHz~3GHz_Band4 15MHz_QPSK 1 0_MidCH20175-1732.5

30MHz~3GHz_Band4 15MHz_QPSK 1 0_HighCH20325-1747.5



3GHz~10GHz_Band4 15MHz_QPSK 1 0_HighCH20325-1747.5



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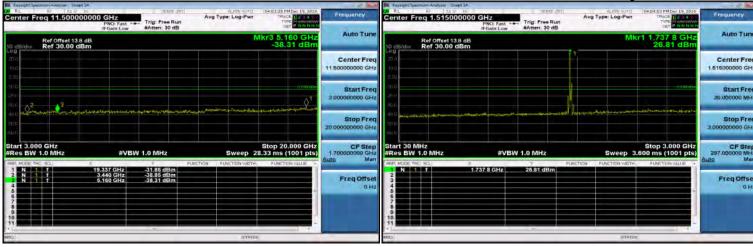
Report No.: ER/2016/C0032 Page 236 of 399

30MHz~3GHz_Band4 20MHz_QPSK 1 0_LowCH20050-1720

3GHz~10GHz_Band4 20MHz_QPSK 1 0_MidCH20175-1732.5



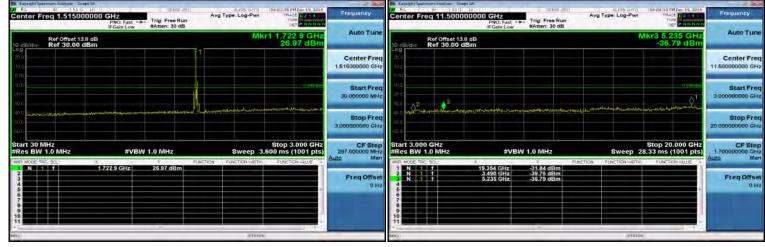
3GHz~10GHz_Band4 20MHz_QPSK 1 0_LowCH20050-1720



30MHz~3GHz_Band4 20MHz_QPSK 1 0_MidCH20175-1732.5

3GHz~10GHz_Band4 20MHz_QPSK 1 0_HighCH20300-1745

30MHz~3GHz_Band4 20MHz_QPSK 1 0_HighCH20300-1745



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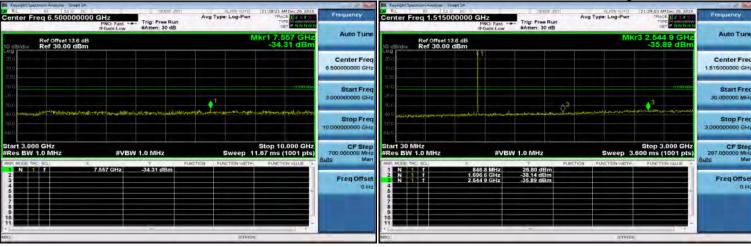
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30MHz~3GHz_Band5 1.4MHz_QPSK 1 0_LowCH20407-824.7

3GHz~10GHz_Band5 1.4MHz_QPSK 1 0_MidCH20525-836.5

Center Freq 1.515000	DODO GHz PNO: Fast IFGain:Low		Avg Type: Log-Pwr	11:18:11 AM Dec 26, 2016 TRACE TO A A TYPE N WARNER DET P N R KING	Frequency	07 8L N/ SDO DC Center Freq 5.500000000	PNO: Fast IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr		Frequency
10 dB/div Ref 0ffset 13.6 Ref 30.00 dl	s dB Bm		M	r3 2.474 1 GHz -36.69 dBm	Auto Tune	Ref Offset 13.6 dB 10 dB/div Ref 30.00 dBm		N	kr1 3.791 GHz -33.69 dBm	Auto Tune
2000 10.00 1.000	↑1 				Center Freq 1.515000000 GHz	20.0				Center Freq 6.500000000 GHz
300 300		, , , , , , , , , , , , , , , , , , ,		-100an	Start Freq 30.000000 MHz	400 200 201			പതമം	Start Freq 3.000000000 GHz
40.0 2000 - 2000 - 2000 - 2000	and and a second se	and the second	derlang setter of the color of the local data to a set of the set		Stop Freq 3.000000000 GHz		termilipendonaristadarkenjerterdarisert	at gi an fel dig gi 19-93 i gent en in fel bet i	hallan altra can athain a can an	Stop Freq 10.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBW	1.0 MHz	Sweep 3	Stop 3.000 GHz .600 ms (1001 pts)	CF Step 297.000000 MHz Auto Men	Start 3.000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 1	Stop 10.000 GHz 1.67 ms (1001 pts)	CF Step 700.000000 MHz
MRR MODE TRC SCL 1 N 1 f 2 N 1 f 3 N 1 f 4	× 826.0 MHz 1.649.4 GHz 2.474.1 GHz	7 Fl 25.87 dBm -38.84 dBm -36.69 dBm	UNCTION FUNCTION WIBTH	FUNCTION VALUE	Freq Offset 0 Hz	WR MODE TRC SCL X	3.791 GHz -33.69 dBm	FUNCTION FUNCTION WOTH	FUNCTION VALUE	Freq Offset
						0 7 8 9 9 10 11				
(CRW			STATU	5		(REAL)		STÁTUS		

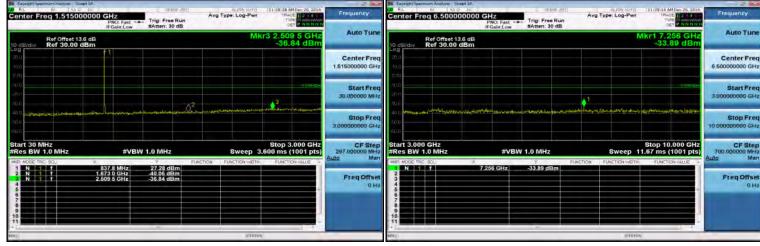
3GHz~10GHz_Band5 1.4MHz_QPSK 1 0_LowCH20407-824.7



30MHz~3GHz_Band5 1.4MHz_QPSK 1 0_MidCH20525-836.5

3GHz~10GHz_Band5 1.4MHz_QPSK 1 0_HighCH20643-848.3

30MHz~3GHz_Band5 1.4MHz_QPSK 1 0_HighCH20643-848.3



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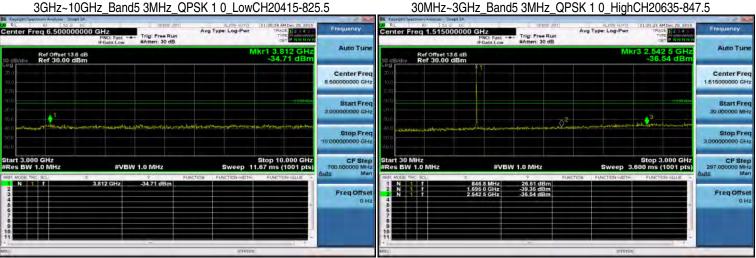
Report No.: ER/2016/C0032 Page 238 of 399

30MHz~3GHz_Band5 3MHz_QPSK 1 0_LowCH20415-825.5

3GHz~10GHz_Band5 3MHz_QPSK 1 0_MidCH20525-836.5

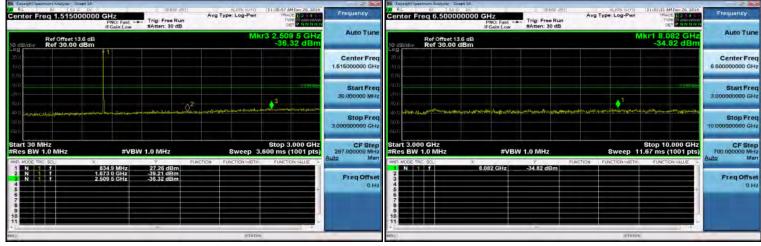
Mil Iso or cold State and Difference State and France State and Difference State and State and <th>Frequency</th> <th>All All State State All of the state Trade large Trade large</th> <th>Frequency</th>	Frequency	All All State State All of the state Trade large Trade large	Frequency
Ref Offset 13.6 dB MKr3 2,476 5 GHz 10 dB/di∉ Ref 30.00 dBm -36.00 dBm	Auto Tune	Ref Offset 13.6 dB Mkr1 9.755 GHz 10 dB/div Ref 30.00 dBm -34,69 dBm	Auto Tune
100 100 100 100 100 100 100 100 100 100	Center Freq 1.515000000 GHz	20.0 1000 1.030	Center Freq 6 50000000 GHz
.100	Start Freq 30.000000 MHz	лра	Start Freq 3.000000000 GHz
300 400 <u>Autoing maning temperature</u> temperature to the second	Stop Freq 3.000000000 GHz	40 - 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	Stop Freq 10 00000000 GHz
Start 30 MHz Stop 3.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 3.600 ms (1001 pts) MRR MORE TRC SCL X Y FUICTION IN DTH - FUICTION MDTH - FUICTION - FUICTION MDTH - FUICTION - FUICTION - FUICTION - FUI	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz Stop 10.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 11.67 ms [100 pts] week index First \$2 Purction week	CF Step 700,000000 MHz Auto Man
1 N 3 T 8260 MHz 2592 dBm 2 N 3 T 1.6510 GHz 40.12 dBm N 3 T 2.476 5 GHz -36.00 dBm	Freq Offset 0 Hz	N 7 9.765 GHz -34.69 dBm	Freq Offset 0 Hz
• EtATUS		strate case	

3GHz~10GHz_Band5 3MHz_QPSK 1 0_LowCH20415-825.5



30MHz~3GHz_Band5 3MHz_QPSK 1 0_MidCH20525-836.5

3GHz~10GHz_Band5 3MHz_QPSK 1 0_HighCH20635-847.5



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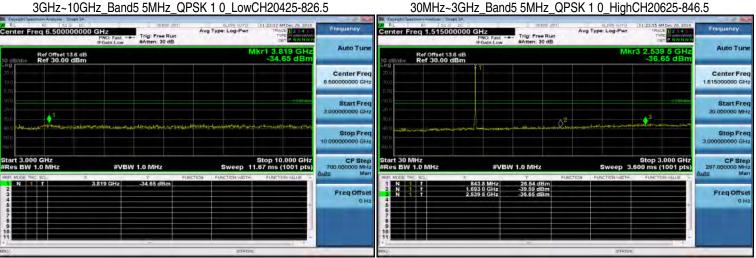
Report No.: ER/2016/C0032 Page 239 of 399

30MHz~3GHz_Band5 5MHz_QPSK 1 0_LowCH20425-826.5

3GHz~10GHz_Band5 5MHz_QPSK 1 0_MidCH20525-836.5

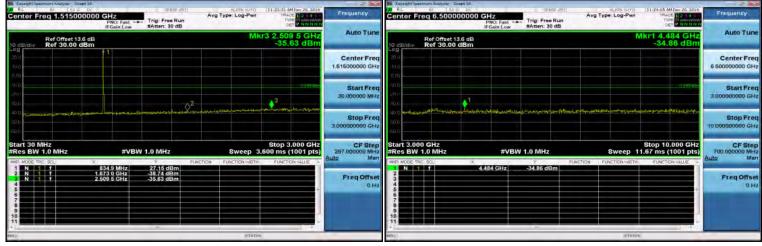
	1.515000000 GHz PN0: Fast	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	[31:23:02 AM Dec 20, 2016 TRACE [] 2 3 4 3 TYPE IN VANIMANN DET P N.N.M.M.N.	Frequency	Center Freq 5.500000		Avg Type: Log-Pwr	31:23:40 AM Dec 20, 2018 TRACE 1 2 3 4 TYPE PLONAUMON DET PLN N.M.W.W	Frequency
10 dB/div Re	f Offset 13.6 dB f 30.00 dBm		M	479 5 GHz -37.08 dBm	Auto Tune	Ref Offset 13.6 10 dB/div Ref 30.00 dB	dB m	M	kr1 7.550 GHz -34.55 dBm	Auto Tune
20.0 10.0 2.70	*1				Center Freq 1.515000000 GHz					Center Freq 6 500000000 GHz
300 300		A2			Start Freq 30,000000 MHz				3100 cDe	Start Freq 3.000000000 GHz
40.0 50.0 60.0	مرود مرد المرد بالمرد المرد	mennen an	ىلىرغى يونى مەنتىرىكى تىكى ئىلىرى يەنتىرىكى بىلىرىكى بىلىرىكى بىلىرىكى بىلىرىكى بىلىرىكى بىلىرىكى بىلىرىكى بىل تىلىرى ئىلىرىكى بىلىرىكى بىلىر	ana Derita da in diang pagtara di	Stop Freq 3,00000000 GHz		kezekletzteksze alamadolok an alforetesenettekszeregeneszt	and a second and a second and	openentaliesternijskiestiessi	Stop Freq 10.000000000 GHz
Start 30 MHz #Res BW 1.0		V 1.0 MHz		Stop 3.000 GHz .600 ms (1001 pts)	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 11.	Stop 10.000 GHz 67 ms (1001 pts)	CF Step 700.000000 MHz Auto Man
MRR MODE TRC SCL 1 N 1 T 2 N 1 T 4 5	826.0 MHz 1.663 0 GHz	26.83 dBm -39.14 dBm -37.08 dBm	INCTION (FUNCTION WIDTH	FUNCTION VALUE	Freq Offset 0 Hz	MKR NODE TRC SCL 1 N 1 7 2 3 4 4 5	× 7.550 GHz -34.55 dBm	FUNCTION - : FUNCTION WIDTH :	FUNCTION VALUE	Freq Offset
6 7 8 9 10 11						6 7 8 9 10 11				
(CRIV)			STATU	6		MISC)		STÁTUS		

3GHz~10GHz_Band5 5MHz_QPSK 1 0_LowCH20425-826.5



30MHz~3GHz_Band5 5MHz_QPSK 1 0_MidCH20525-836.5

3GHz~10GHz_Band5 5MHz_QPSK 1 0_HighCH20625-846.5



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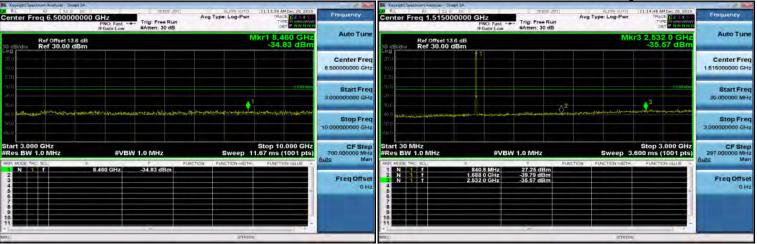
30MHz~3GHz_Band5 10MHz_QPSK 1 0_LowCH20450-829

3GHz~10GHz_Band5 10MHz_QPSK 1 0_MidCH20525-836.5

30MHz~3GHz_Band5 10MHz_QPSK 1 0_HighCH20600-844

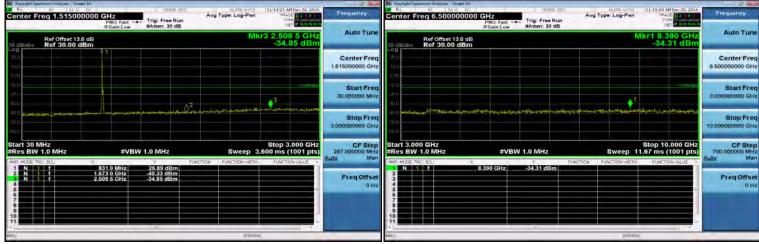
Center Freq 1.515000000 GHz	T I USA	Aug Type: Log-Pwr	11 13:40 MM Dec 20, 2010	Frequency	Center Freq 6.500000	DC SENSE JUT	ALIGN AUTO [11-14:31 AM Dec 20 2010 Avg Type: Log-Pwr TRACE] 2 3 4	Frequency
PND: Fest IFGain:Low Ref Offset 13.6 dB 10 dB/div Ref 30.00 dBm	Trig: Free Run #Atten: 30 dB	Mk	3 2.487 0 GHz -37.05 dBm	Auto Tune	Ref Offset 13.6	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Mkr1 4.862 GHz -34,83 dBm	Auto Tune
100 110				Center Freq 1.515000000 GHz				Center Freq 6 500000000 GHz
-000 	Q ²		-)(mae	Start Freq 30,000000 MHz	30.0	¢1		Start Freq 3.000000000 GHz
40 5 Annual Contraction of the Annual	n an	n n fers frederik de filmen men er film en de	ny Carlon Billion of Liney number of a second	Stop Freq 3,00000000 GHz	rd n	urtinen dille öttensina samma können sön köndet sekaran können sön sön sön sön sön sön sön sön sön sö	يرينية كله ، تواقعة ليهني ها الاقتر بعن القريمية ومالية من المرينية المرينية والمرينية والمرينية من المرينية م المرينية المرينية الم	Stop Fred 10.000000000 GH
MKR MODE TRC SOLI X	YBW 1.0 MHz	the second s	Stop 3.000 GHz 500 ms (1001 pts) FUNCTION VALUE	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz #Res BW 1.0 MHz MRR MODE TRC SCL		Stop 10.000 GHz Sweep 11.67 ms (1001 pts) FUNCTION I FUNCTION WOTH: FUNCTION VALUE	CF Step 700,000000 MHz Auto Mar
1 N 1 F 826.0 MHz 2 N 1 F 1.658.0 GHz 3 N 1 F 2.487.0 GHz 4 5 6 7	-40.46 dBm		+	Freq Offset 0 Hz	1 N 1 f 2 3 4 5 6 7	4.862 GHz34.83 dBm		Freq Offset 0 Hz
8 10 11	~				8 9 10 11			
MRQ .		STATUS			COM		STATUS	

3GHz~10GHz_Band5 10MHz_QPSK 1 0_LowCH20450-829



30MHz~3GHz_Band5 10MHz_QPSK 1 0_MidCH20525-836.5

3GHz~10GHz_Band5 10MHz_QPSK 1 0_HighCH20600-844



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30MHz~3GHz_Band7 5MHz_QPSK 1 0_LowCH20775-2502.5

3GHz~10GHz_Band7 5MHz_QPSK 1 0_MidCH21100-2535

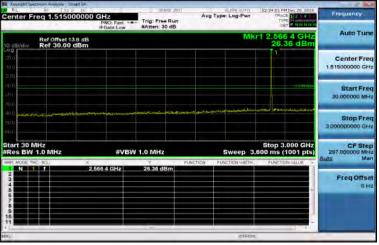
Center Freq 1.51500000	PNO: Fast Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	C2-23:08 PM Ever 20, 2016 TRADE 1 2 14 TYPE POINT MINT	Frequency	Center Freq 11.50000		Aug Type: Log-Pwr Trace Trace To an Avg Type: Log-Pwr Trace To an Trace To an Det Putter	Frequency
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm		Mk	r1 2.501 0 GHz 26,61 dBm	Auto Tune	Ref Offset 13.8 10 dB/div Ref 30.00 d	8 dB Bm	Mkr3 7.605 GHz -38.67 dBm	Auto Tune
20.0 10.0 17.0				Center Freq 1.515000000 GHz	2000 10.0 1.75			Center Freq 11.500000000 GHz
400				Start Freq 30,000000 MHz	.000 .000 .000	3	0100 524 Q	Start Freq 3.000000000 GHz
40 0 000000000000000000000000000000000	agang mengang dipang pang pang pang pang pang pang pang	and the long of the second	and Mentrithians Laplacity	Stop Freq 3,000000000 GHz		n Canada an an ann an ann an ann ann ann an	le frank - Andrew Alanda - Andr	Stop Freq 20 00000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 3.	Stop 3.000 GHz 600 ms (1001 pts)	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Stop 20.000 GHz Sweep 28.33 ms (1001 pts)	CF Step 1.700000000 GHz Auto Man
MRR MODE TRC SCL X	.501 0 GHz 26.61 dBm	NETION : FUNCTION WETH:	FUNCTION VALUE	Freq Offset 0 Hz	MRR MODE TRC SCL 1 N 1 f 2 N 1 f 3 N 1 f 4	2 2 2 FU 19.643 GHz31.89 dBm 5.070 GHz38.31 dBm 7.605 GHz38.67 dBm	NCTION . FUNCTION WOTH, FUNCTION VALUE .	Freq Offset
6 7 8 9 9 10 11								
(VBC)		STATUS		-	MING		STATUS	

3GHz~10GHz_Band7 5MHz_QPSK 1 0_LowCH20775-2502.5

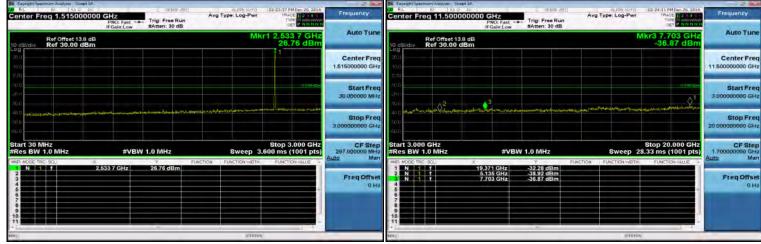
	eq 11.5000	000000 GHz PNO: Fa IFGaln:Lo	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	02-23:19 PM Dec 20, 2016 TRACE 1, 2, 3, 4, 34 TVPE PARAMETER DET P N P MOUT	Frequency
O dB/div	Ref Offset 13 Ref 30.00	.8 dB		N	lkr3 7.508 GHz -37.09 dBm	Auto Tuni
00 2010 10.0 1.75						Center Fre 11 50000000 GH
	0 ²	3		Name and the second second	من منه المن المراجع الم	Start Fre 3.000000000 GH
10 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S. A. Start and a start		n a feisige an			Stop Fre 20.000000000 GH
tart 3.000 Res BW 1	I.O MHZ	x		Sweep 2:	Stop 20.000 GHz 3.33 ms (1001 pts) FUNCTION VALUE	CF Ste 1.700000000 GH Auto Ma
1 N 1 2 N 1 3 N 1 4 5 6	r r	16.005 GH 5.005 GH 7.508 GH	-38.89 dBm		-	Freq Offse 0 H
7 8 9 10						
a)				STATUS		

30MHz~3GHz_Band7 5MHz_QPSK 1 0_MidCH21100-2535

30MHz~3GHz_Band7 5MHz_QPSK 1 0_HighCH21425-2567.5



3GHz~10GHz_Band7 5MHz_QPSK 1 0_HighCH21425-2567.5



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Report No.: ER/2016/C0032 Page 242 of 399

30MHz~3GHz_Band7 10MHz_QPSK 1 0_LowCH20800-2505

3GHz~10GHz_Band7 10MHz_QPSK 1 0_MidCH21100-2535

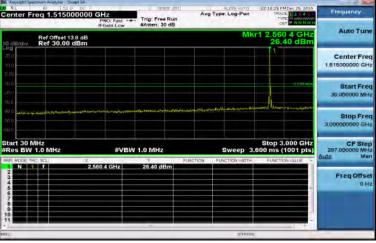
Center Freq 1.515000000	PNO: Fast Trig: Free Run IFGainLow #Atten: 30 dB	Avg Type: Log-Pwr	02-15:33 PM Dec 20, 2018 TRACE 1 2 3 4 4 4 TYPE PAYMENT DET P NO MARK	Frequency	Center Freq 11.5000		Avg Type: Log-Pwr	02:16:11 PM Dec 20, 2010 TRADE 1 2 3 4 5 TIPE PLOTONOMUM DET P. NUMBER	Frequency
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm		Mkr	2.501 0 GHz 26.80 dBm	Auto Tune	Ref Offset 13.	8 dB IBM	M	kr3 7.605 GHz -37.61 dBm	Auto Tune
20.0 10.0 12.0				Center Freq 1.515000000 GHz	2010 10:0 2:25				Center Freq 11.50000000 GHz
400			-1103 dDr	Start Freq 30,000000 MHz	400 300 300 <u>A</u> 2	3	dun ungarid Milledografi merikying	=107404 \$ ¹	Start Freq 3.000000000 GHz
40.0 Constant of the second se	مى مەركەيلىرىكى ئەھەر كەرىكە ئەلەرلىكى ئەيەت يەركەيىيە يەركەيتە يەركەيلىرى ئەركەيتە ئەيەت يەركەيتە يەركەيتە يە يەركەيتە يەركەيتە يەر	and the second se	 Provenske strandske st Strandsk strandsk stra Strandsk strandsk st Strandsk strandsk st Strandsk strandsk strandsk Strandsk strandsk st Strandsk strandsk stran Strandsk strandsk st Strandsk strandsk strand	Stop Freq 3,00000000 GHz	40 D 0000000000000000000000000000000000	ayong dipendi tikan panang kana bang dipendi tani kalana me			Stop Freq 20 00000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 3.6	Stop 3.000 GHz 00 ms (1001 pts)	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 28	Stop 20.000 GHz .33 ms (1001 pts)	CF Step 1.70000000 GHz Auto Man
1 N 1 f 2.	.501 0 GHz 26.80 dBm		+	Freq Offset 0 Hz	1 N 1 f 2 N 1 f 3 N 1 f 5 6	19.303 GHz -32.04 dBm 6.070 GHz -38.66 dBm 7.696 GHz -37.61 dBm		+	Freq Offset 0 Hz
(res)		STATUS			MBQ		STATUS		

3GHz~10GHz_Band7 10MHz_QPSK 1 0_LowCH20800-2505

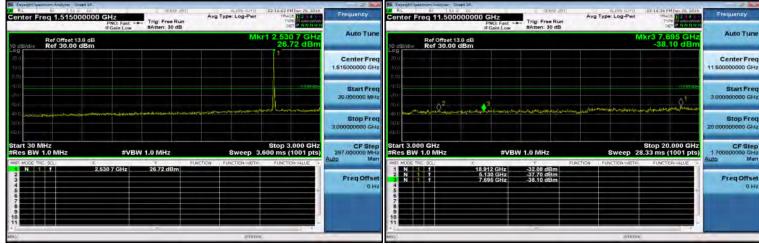
Center Freq 11.5000	D00000 GHz PN0: Fast	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	02-15:43 PM Dec 20, 2018 TRADE 11 2 3 4 TVPE N 00000000 OET P. N N 22 0 0	Frequency	Center Freq 1.5150
Ref Offset 13. Ref 30.00 d				Akr3 7.515 GHz -37.32 dBm	Auto Tune	Ref Offset 1 10 dB/div Ref 30.00
2010 10.0 1.0					Center Freq 11.500000000 GHz	20.0
100 200 300 02	3			-101cm	Start Freq 3.000000000 GHz	4000
40 D Contracting of C	ل همرناجه (المربع هرياسيا) معالم معالم معالم	dian many throng the	an are a shirt and a shirt and a shirt and	a han manala ya na ^k a kakata ka asar	Stop Freq 20.00000000 GHz	40 0 Carlo C
Start 3.000 GHz #Res BW 1.0 MHz	#VBV	V 1.0 MHz		Stop 20.000 GHz 8.33 ms (1001 pts)	CF Step 1.70000000 GHz Auto Man	Start 30 MHz #Res BW 1.0 MHz
MRR MODE TRC SCL 1 N T T 2 N 1 T 3 N 1 T 4	18.317 GHz 5.010 GHz 7.515 GHz	-32.08 dBm -37.40 dBm -37.32 dBm	IETION FUNCTION WIBTH	FUNCTION VALUE ×	Freq Offset 0 Hz	MRR MODE TRC SCL
6 7 8 9						5 7 8 9
		. e	≝TÁTO		, • • • • • • • • • •	

30MHz~3GHz_Band7 10MHz_QPSK 1 0_MidCH21100-2535

30MHz~3GHz_Band7 10MHz_QPSK 1 0_HighCH21400-2565



3GHz~10GHz_Band7 10MHz_QPSK 1 0_HighCH21400-2565



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30MHz~3GHz_Band7 15MHz_QPSK 1 0_LowCH20825-2507.5

3GHz~10GHz_Band7 15MHz_QPSK 1 0_MidCH20175-1732.5

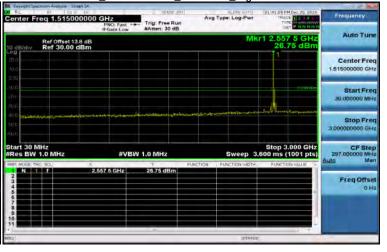
Center Freq 1.51500000	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr Type Oct P Nov Mkr1 2,501 0 GH		Center Freg 11.50000	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr TRACE D TYPE M DEF P	NAME OF TAXABLE PARTY.
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm		26.83 dB		10 dB/div Ref 30.00 dB	dB Bm	Mkr3 7.605 -37.26	IBM
20.0 10.0			Center Freq 1.515000000 GHz	20:0			Center Free 11.500000000 GH
40.0 30.0 50.0			30,000000 MHz	100 300 300 000	3	ى 1944- يىل بوران بى دۇنىل بورى 17 يۇر مۇلىرىيا، بولىرىيا، بولىرىيا، بولىرىيا، بولىرىيا، بولىرىيا، بولىرىيا، بول	Start Free
40.0	yan a manda ka manana a manana a Manjara Walanda a maha a maha ka	and a second second second and the second	Stop Freq 3.00000000 GHz		and and a set of the set		Stop Free 20 00000000 GH
Start 30 MHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Stop 3.000 Gł Sweep 3.600 ms (1001 pt	tz CF Step 297.000000 MHz Auto Man	#Res BW 1.0 MHz	#VBW 1.0 MHz	Stop 20.000 Sweep 28.33 ms (100	1 pts) 1.70000000 GH
MRP MODE TRC SOL X	2,501 0 GHz 25.83 dBm	CTION . FUNCTION WIDTH: FUNCTION VALUE	Freq Offset 0 Hz	MOR MODE TRC: SCL 1 N 1 F 2 N 1 F 3 N 1 F 4 5	x r r 18.997 GHz -31 21 dBm 5.070 GHz -36.68 dBm 7.605 GHz -37.26 dBm	UNCTION FUNCTION WIBTH, FUNCTION VA	Freq Offse 0 H
6				6 7 8 9			
8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				11			-

3GHz~10GHz_Band7 15MHz_QPSK 1 0_LowCH20825-2507.5

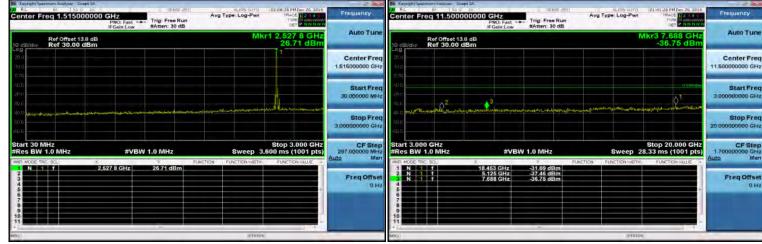
RL R/ Shight Shight SH		STREET ANT	ALION ALITO	02:11:55 PM Dec 20 2010	
enter Freq 11.50000000		Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr		Frequency
Ref Offset 13.8 dB			N	1kr3 7.523 GHz -37.75 dBm	Auto Tu
					Center Fn 11.500000000 G
ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο	2			(10) 609	Start Fro 3.000000000 Gi
n na star se	Case: Spin-Symmetry (1995)	uneren erholges er elleres	n an transformed and a constance of the	ugistringskandigerendekskyrstraken, der gene	Stop Fr 20 000000000 G
art 3.000 GHz les BW 1.0 MHz	#VBW			Stop 20.000 GHz 8.33 ms (1001 pts)	CF Ste 1,70000000 G Auto M
2 N 1 T	5.121 GHz 6.016 GHz 7.523 GHz	-31.96 dBm -37.17 dBm -37.75 dBm	INCTION (FUNCTION WIBTH)	FUNCTION VALUE ×	Freq Offs 01
6 7 8 9 0					
a)			STATUS	14.	

30MHz~3GHz_Band7 15MHz_QPSK 1 0_MidCH20175-1732.5

30MHz~3GHz_Band7 15MHz_QPSK 1 0_HighCH21375-2562.5



3GHz~10GHz_Band7 15MHz_QPSK 1 0_HighCH21375-2562.5



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30MHz~3GHz_Band7 20MHz_QPSK 1 0_LowCH20850-2510

3GHz~10GHz_Band7 20MHz_QPSK 1 0_MidCH21100-2535

Frequency	Ava Type: Log-Pwr TRACE TRACE		Center Freq 11.50	Frequency	Avg Type: Log-Pwr TRACE		Center Freq 1.5150000
GHz Auto Tur dBm	Mkr3 7.605 GH -37.74 dB	et 13.8 dB 00 dBm	10 dB/div Ref 30.00	Auto Tune	Mkr1 2,501 0 GHz 26.72 dBm	13.8 dB 1 dBm	Ref Offset 13.8 d 10 dB/div Ref 30.00 dBn
Center Fre 11,500000000 GP			2010 10.0 1750	Center Freq 1.515000000 GHz			20.0
01 3.00000000 GH	21013 2	3	-100 	Start Freq 30,000000 MHz			40 B
Stop Fre 20.000000000 GH	representation of the second	n for far far sea an		Stop Freq 3.00000000 GHz	halan gerapatan dinya malanya nakanya mangi kara kara na kara na kara kara kara kar	الانتخاب المعطينين والمعطينين والمراجع والمحموم المراجع	40 0 000000000000000000000000000000000
1 pts) 1,700000000 GH	Stop 20.000 GH Sweep 28.33 ms (1001 pt	#VBW 1.0 MHz	Start 3.000 GHz #Res BW 1.0 MHz	CF Step 297.000000 MHz Auto Man	Stop 3.000 GHz Sweep 3.600 ms (1001 pts)	#VBW 1.0 MHz	Start 30 MHz #Res BW 1.0 MHz
Freq Offs 01	FUNCTION FUNCTION WIGHT FUNCTION VALUE	19.201 GHz -31.56 dBm 5.070 GHz -39.11 dBm 7.695 GHz -37.74 dBm	MRR MODE TRC SCL 1 N 1 1 2 N 1 1 3 N 1 1 4 5	Freq Offset 0 Hz	PUNCTION FUNCTION WIDTH FUNCTION VALUE	2.501 0 GHz 25.72 dBm	MRR MODE TRC SCL
			7 8 9 10 11				7 8 9 10 11
	STATUS		(CRIM	-	ETATUS		MIRG .

3GHz~10GHz_Band7 20MHz_QPSK 1 0_LowCH20850-2510

DO GHZ PNO: Fast IFGain.Low	Street 2011		Idiata Angelande Internet Constant Internet Cons	Auto Tune	10.0 0.70 p 	PNO: Fes IFGain:Lo
	ar daharat mga Jina di Spanin ang mila		-37.12 dBm	Center Freq 11.500000000 GHz Start Freq 3.00000000 GHz Stop Freq	10 dB/dv Ref 30.00 dBm	
	adab adm <u>an</u> ting gave yend	ng paulitican a the paulity of the p	01	11.50000000 GHz Start Freq 3.00000000 GHz Stop Freq	200 000 000 000 000 000 000	nek teter of some spe
	ومعيد مراسعة المستقرير والمرطواته	ang pang kin di mang king pang pang king pang king pang king pang king pang king pang pang pang pang pang pang	01	3.00000000 GHz Stop Freq	2011 -2010 -40 D	where you w
www.warneyand.organd.organd.organd.organd.organd.organd.organd.organd.organd.organd.organd.organd.organd.organd	والمعارية والمعالية و	ang pang di di sang di di pang di di di di di di di di	lan ay pindu katala nayan ng kapaga		40.0 planpersurvey and an attacement	-
				20100030000 GHZ	160.0	
#VBW	/ 1.0 MHz		Stop 20.000 GHz 8.33 ms (1001 pts)	CF Step 1.70000000 GHz Auto Man	Start 30 MHz #Res BW 1.0 MHz	#\
19.303 GHz 5.020 GHz 7.530 GHz	-31.61 dBm -38.01 dBm -37.12 dBm	UNCTION FUNCTION MIDTH	FUNCTION VALUE	Freq Offset 0 Hz	1 N 1 f 2 3	551 5 GHz
			-		11	
	5.020 GHz	19.303 GHz -31.61 dBm 5.020 GHz -38.01 dBm	19 203 GHz - 31 61 dBm 5020 GHz - 38 61 dBm 7.530 GHz - 37.12 dBm	PERICTION FUNCTION WIDTH FUNCTION VALUE - 5.020 GHz	19 203 GHz 33 61 dBm 5 020 GHz 33 61 dBm 7,530 GHz 37,12 dBm 0 Hz 19 203 GHz 37,12 dBm 19 203 GHz 37,12 dBm 10 203 GHz 37,12 d	PLACTION VOIDTH, FUNCTION VOIDTH, FUNCTI

30MHz~3GHz_Band7 20MHz_QPSK 1 0_MidCH21100-2535

Trig: Free Ru

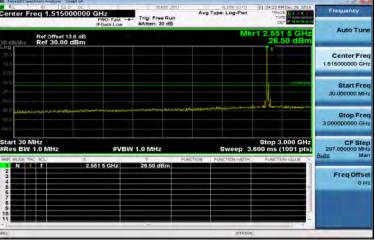
#VBW 1.0 M

nter Freg 1.515000000 GHz

Ref Offset 13.8 dB Ref 30.00 dBm

30 MHz

30MHz~3GHz_Band7 20MHz_QPSK 1 0_HighCH21350-2560



3GHz~10GHz_Band7 20MHz_QPSK 1 0_HighCH21350-2560

enter Freg 11,50000000 GHz Trig: Free Ru Auto Tun Auto Tun Ref Offset 13.8 dE Ref 30.00 dBm -37.78 d Center Fre Center Fre 1.51500 00 GI DO GH Start Fre Start Fre 10 GI 30.0000 Stop Fre Stop Fre p 3.000 GH CF Ste Stop 20.000 GH 28.33 ms (1001 pts CF Ste 297.0 1.70 -32.00 dBn -38.53 dBn -37.78 dBn 9.031 GH 5.120 GH 7.680 GH Freq Offse Freq Offse

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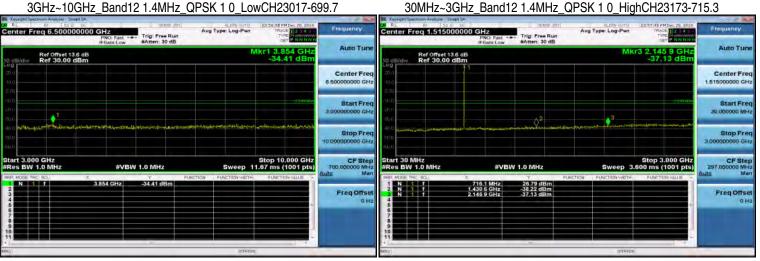


30MHz~3GHz_Band12 1.4MHz_QPSK 1 0_LowCH23017-699.7

3GHz~10GHz_Band12 1.4MHz_QPSK 1 0_MidCH23095-707.5

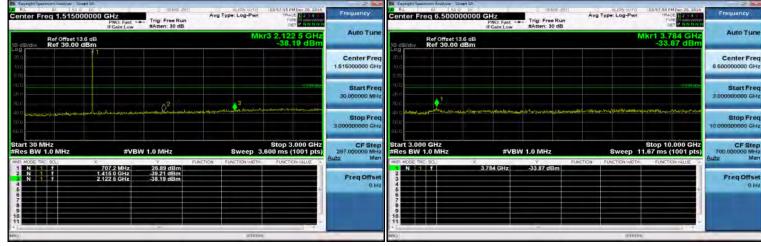
Center Freq 1.51500000	DIO GHZ PNO: Fast IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr TRACE Det Photos	Frequency	Center Freq 6.500000000		Aug type: Log-Pwr TRace To 2016	Frequency
Ref Offset 13.6 dE	3	Mkr3 2.099 1 GHz -37.17 dBm	Auto Tune	10 dB/div Ref 30.00 dBm		Mkr1 7.242 GHz -34.96 dBm	Auto Tune
20.0 10.0 12.0	1		Center Freq 1.515000000 GHz	20.0			Center Freq 6 50000000 GHz
-160 200 300		3	Start Freq 30.000000 MHz	400 200		100 KG 4	Start Freq 3.000000000 GHz
40.0 	eten og ten forsen som stand som til kommen størte kommen som	an ya ya yang milan Tana di kata yana ama di kata yana ana kata karanti ya kata kata ya ya yang milan di kata y	Stop Freq 3.00000000 GHz		ellindivjenu dan dudijeriski nesterilara evrent d	al de la constante de la const La constante de la constante de	Stop Freq 10.000000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Stop 3.000 GHz Sweep 3.600 ms (1001 pts)	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Stop 10.000 GHz Sweep 11.67 ms (1001 pts)	CF Step 700.000000 MHz Auto Man
	698.3 MHz 27.10 dBm 1.399.4 GHz39.76 dBm 2.099.1 GHz37.17 dBm	-	Freq Offset 0 Hz	1 N 1 f 2 3 4 5 6	7.242 GHz -34.96 dBm		Freq Offset 0 Hz
7 8 9 10 11				7 8 9 10 11			
ANRO .		STATUS		(CRM		STATUS	

3GHz~10GHz_Band12 1.4MHz_QPSK 1 0_LowCH23017-699.7



30MHz~3GHz_Band12 1.4MHz_QPSK 1 0_MidCH23095-707.5

3GHz~10GHz_Band12 1.4MHz_QPSK 1 0_HighCH23173-715.3



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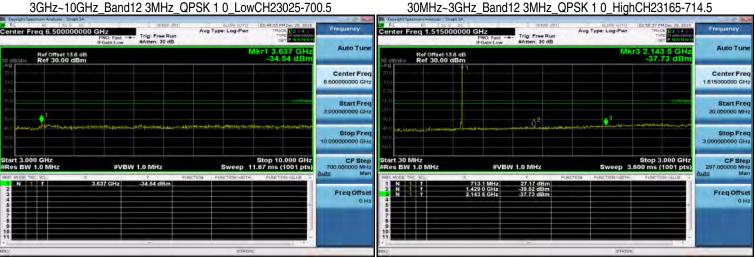
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30MHz~3GHz_Band12 3MHz_QPSK 1 0_LowCH23025-700.5

3GHz~10GHz_Band12 3MHz_QPSK 1 0_MidCH23095-707.5

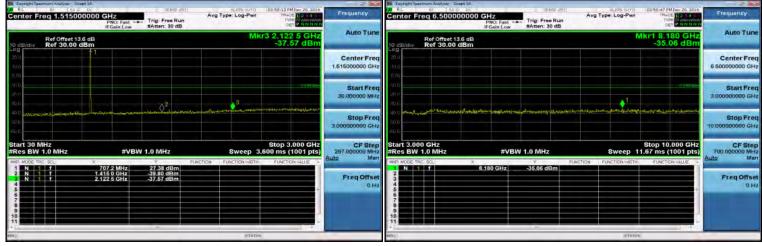
Center Freq 1.515000000 G		Aug Type: Log-Pwr TR405 Trans Trans Der P. Noter	Frequency	Center Freq 5.50000000 GHz Froin Low Fosin Low Atten: 30 dB	Avg Type: Log-Pwr TRace T 2 2016 Avg Type: Log-Pwr TRace T 2 2016 Det Provinsion	Frequency
Ref Offset 13.6 dB		Mkr3 2.101 5 GHz -36.85 dBm	Auto Tune	Ref Offset 13.6 dB	Mkr1 8.579 GHz -35.00 dBm	Auto Tune
20.0 10.0 19.0			Center Freq 1.515000000 GHz	200 100 170		Center Freq 6 50000000 GHz
-100 	·^2	4100 iden 3	Start Freq 30,000000 MHz	40.0	et on serv	Start Freq 3.000000000 GHz
40.0 page and page an	un det maarke weer op on sont Honore stopped woord weer beinger	n n n n n n n n n n n n n n n n n n n	Stop Freq 3.00000000 GHz	-40 E) balan ya ya m^{alak}i shakal ya kata k ata tirina ^{ka} li ya kumoni ya k ata kata kata kata kata kata kata ka	<mark>na banan sana kataban kana kana sana sana d</mark> a saka manangan kanangan kanangan kanangan kanangan kana da dagi kana ka	Stop Freq
Start 30 MHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Stop 3.000 GHz Sweep 3.600 ms (1001 pts)	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz	Stop 10.000 GHz Sweep 11.67 ms (1001 pts)	CF Step 700.000000 MHz Auto Man
1 N 1 f 69 2 N 1 f 1.40	98.3 MHz 27.40 dBm 21.0 GHz -39.33 dBm 21.5 GHz -36.86 dBm		Freq Offset 0 Hz	1 N 1 f 8.579 GHz -35.00 dBm 2 3 4 4 5		Freq Offset 0 Hz
7 8 9 10 11				0 7 8 9 10 11		
(COM		STATUS		(Inc.	STATUS	

3GHz~10GHz_Band12 3MHz_QPSK 1 0_LowCH23025-700.5



30MHz~3GHz_Band12 3MHz_QPSK 1 0_MidCH23095-707.5

3GHz~10GHz_Band12 3MHz_QPSK 1 0_HighCH23165-714.5



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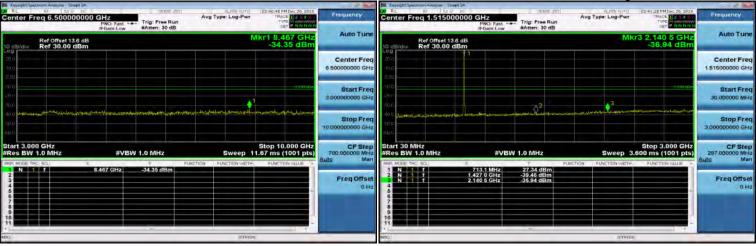
30MHz~3GHz_Band12 5MHz_QPSK 1 0_LowCH23035-701.5

3GHz~10GHz_Band12 5MHz_QPSK 1 0_MidCH23095-707.5

30MHz~3GHz_Band12 5MHz_QPSK 1 0_HighCH23155-713.5

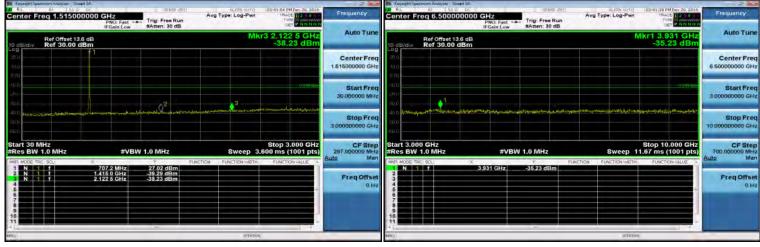
Center Freq 1.55000000 GHz HEaktow Trig: Free Run HEaktow Avg Type. Log-Pwr Trig: Free Run HEaktow Frequency Avg Type. Log-Pwr Trig: Free Run HEaktow Avg Type. Log-Pwr	Bill Keynight:Spectrum Analyzer - Silvept SA				Keynight Spachsen Analyzer - Skupt SA	
Ref offset 13.6 dB MMCS 2 (US 0) CBR2 Ref 30.00 dBm MMCS 2 (US 0) CBR2 Ref 30.00 dBm Center Freq <	PN	Trig: Free Run	Auto surro (23-40:30 PM bac 20 22 Avg Type: Log-Pwr TRect To 24 Trive Der Dation	Frequency	Center Freq 5.500000000 GHz PNO: Fest Trig: Free Run IFGain.Low #Atten: 30 dB	CE DELLA TO Frequency
100 1515000000 GHz 100 1515000000 GHz 100 100 100 100 100 1515000000 GHz 30.0000000 GHz 100 100 1000 1000 10000 100000000 100000000 1000000000000000000000000000000000000	Ref Offset 13.6 dB		Mkr3 2,104 5 GH -38,60 dB		Ref Offset 13.6 dB	906 GHz Auto Tune 83 dBm
Start 7-0	20.0 10.0 17.70					Center Free 6 500000000 GH
Stop Freq 3.00000000 GHz Stop Freq 3.0000000 GHz Stop Freq 3.00000000 GHz Stop Freq 3.000000000 GHz Stop Fr	400 200 300	~~2		StartFreq		3,00000000 GH
PRC B BW 1.0 MHz #VBW 1.0 MHz #VBW 1.0 MHz \$Weep 3.600 ms (1001 pts) 297,00000 Mt 008 M00E TRC ISC. X Y Restrongeneration Restrongeneration Y Restrongeneration	40 0 000000000000000000000000000000000	and an an and a second state of the second state of	n - Alexandra Alexandra - A	Stop Freq		Stop Fred 10.00000000 GH
1 N 1 F 698.3 MHz 27.44 dBm 1	#Res BW 1.0 MHz		Sweep 3.600 ms (1001 pt	(S) 297,000000 MHz	#Res BW 1.0 MHz #VBW 1.0 MHz Sweep 11.67 ms ((1001 pts) 700,000000 MH
	1 N 1 T 698.3 2 N 1 T 1.403.0	3 MHz 27.44 dBm 3 GHz -38.73 dBm			1 N 1 f 6.906 GHz33 83 dBm 2	Freq Offse
	0 7 8 9 10 11				0 8 9 10 11	
	+ 17	De la	status		MISS ETATUS	

3GHz~10GHz_Band12 5MHz_QPSK 1 0_LowCH23035-701.5



30MHz~3GHz_Band12 5MHz_QPSK 1 0_MidCH23095-707.5

3GHz~10GHz_Band12 5MHz_QPSK 1 0_HighCH23155-713.5



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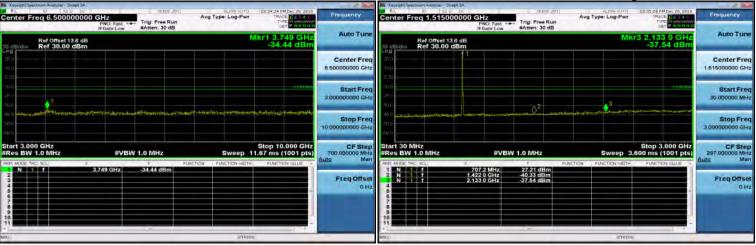
30MHz~3GHz_Band12 10MHz_QPSK 1 0_LowCH23060-704

3GHz~10GHz_Band12 10MHz_QPSK 1 0_MidCH23095-707.5

30MHz~3GHz_Band12 10MHz_QPSK 1 0_HighCH23130-711

Record Spectrum Analyzer - Shapt SA		Kaynght Spectrum Analyzer - Skept SA	
Mot Fact Anno Context Anno Context Anno Context	Frequency	OF RL AL 05 LOC State 301 ALLOS LUTO Calcol 101 Calcol 101 <thcalcol 101<="" th=""> Calcol 101<td>Frequency</td></thcalcol>	Frequency
Ref Offset 13.6 dB MKr3 2,112 0 GHz 10 dB/div Ref 30.00 dBm -36,24 dBm	Auto Tune	Ref Offset 13.6 dB Mkr1 9.811 GHz 10 dB/div Ref 30.00 dBm -35.12 dBm	Auto Tune
	Center Freq 1.515000000 GHz		Center Fred 6 500000000 GH
\DD	Start Freq 30.000000 MHz	()00 ()00 ()00 ()00 ()00 ()00 ()00 ()00	Start Fred 3.000000000 GHz
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Start 30 MHz Stop 3.000 GHz #Res BW 1.0 MHz \$weep 3.600 ms (1001 pts) was interesting x	CF Step 297,000000 MHz Auto Man	Start 3.000 GHz Stop 10.000 GHz #Res BW 1.0 MHz \$Wew 11.0 MHz Bern MODE FINGT \$Wew 11.0 MHz	CF Step 700.000000 MHz ato Mar
1 N T 701.2 MHz 27.30 dBm 2 N 1 T 1.408.0 GHz -40.04 dBm N T 2.112.0 GHz -36.24 dBm	Freq Offset 0 Hz	N 1 f 9.811 GHz -35.12 dBm	Freq Offset 0 Hz
zurkrs (299		etatus	

3GHz~10GHz_Band12 10MHz_QPSK 1 0_LowCH23060-704



30MHz~3GHz_Band12 10MHz_QPSK 1 0_MidCH23095-707.5

3GHz~10GHz_Band12 10MHz_QPSK 1 0_HighCH23130-711



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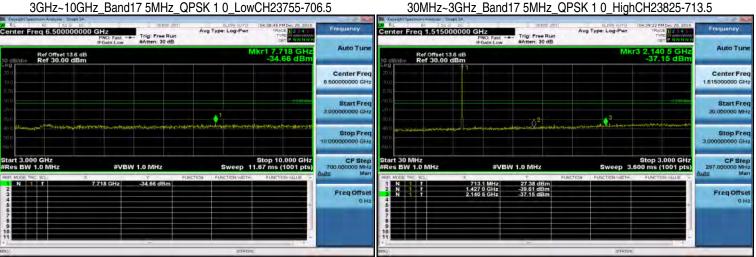
Report No.: ER/2016/C0032 Page 249 of 399

30MHz~3GHz_Band17 5MHz_QPSK 1 0_LowCH23755-706.5

3GHz~10GHz_Band17 5MHz_QPSK 1 0_MidCH23790-710

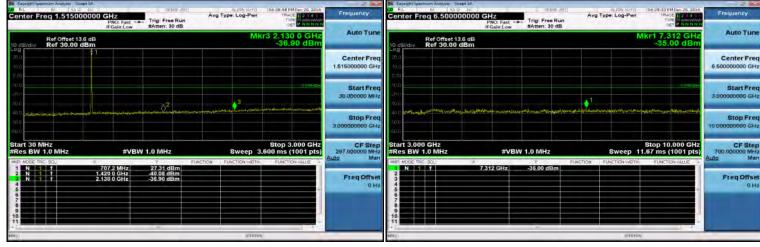
Center Freq 1.5150000		Aug Type: Log-Pwr	18:30 PM Dec 20, 2016 TRACE 1 2 3 4 3 TYPE DET P NO 1010	Frequency	RL #/ Strop bc enter Freq 5.500000000 GHz PND: Fast FGslinLow #/	Strict String Avg Type: Log-Pwr Avg Type: Log-Pwr Sten: 30 dB	04:39:07 PM Dec 20, 2010 TRACE 1 2 3 4 5 TYPE IN WARKING OFT P 11 12 14 1	Frequency
Ref Offset 13.6 c 10 dB/div Ref 30.00 dB	dB m	Mkr3 2	.119 5 GHz -37.35 dBm	Auto Tune	Ref Offset 13.6 dB 0 dB/div Ref 30.00 dBm	N	1kr1 7.256 GHz -35.15 dBm	Auto Tune
2000 1000 1010	ň1			Center Freq 1.515000000 GHz	100 100			Center Freq
400 0000000000000000000000000000000000	λ2	3	410366	Start Freq 30.000000 MHz	00	1		Start Freq
40.0	llenunning generalised and the second	an an star an	in an	Stop Freq 3.00000000 GHz	to to annear and the state of the second state of	hannand yn y din yn fer far fer o din draef haf felder i fer yn ferfer. E		Stop Freq
Start 30 MHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 3,600	top 3.000 GHz ms (1001 pts)		Nant 3.000 GHz Res BW 1.0 MHz #VBW 1.0	MHz Sweep 1	Stop 10.000 GHz 1.67 ms (1001 pts)	CF Step 00.000000 MHz Man
1 N 1 T 2 N 1 T 3 N 1 T 4 6	704.2 MHz 26.42 dBm 1.413.0 GHz -39.73 dBm 2.119.5 GHz -37.35 dBm		_	Freq Offset 0 Hz		5.15 dBm		Freq Offset 0 Hz
7 8 9 10 11					7 8 9 9 10			
MRQ .		STATUS		-	85)	STATUS		

3GHz~10GHz_Band17 5MHz_QPSK 1 0_LowCH23755-706.5



30MHz~3GHz_Band17 5MHz_QPSK 1 0_MidCH23790-710

3GHz~10GHz_Band17 5MHz_QPSK 1 0_HighCH23825-713.5



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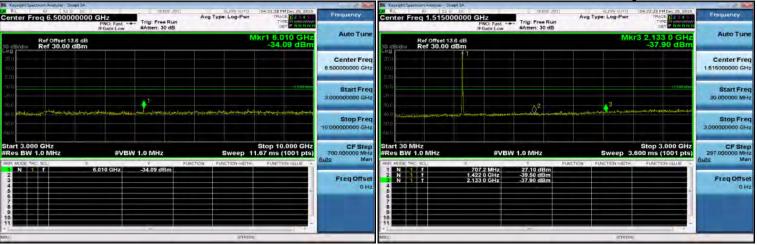
30MHz~3GHz_Band17 10MHz_QPSK 1 0_LowCH23780-709

3GHz~10GHz_Band17 10MHz_QPSK 1 0_MidCH23790-710

30MHz~3GHz_Band17 10MHz_QPSK 1 0_HighCH23800-711

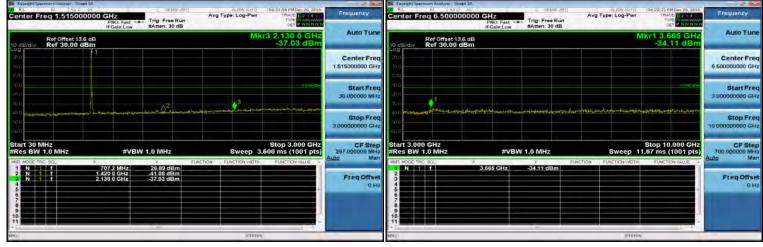
M Keynght Spectrum Analyzer - S/rept SA				M Keynight Spactrum Analyzer - Sloupt SA			Construction of the State of the State of the	
Center Freq 1.51500000		Avg Type: Log-Pwr	PMDec 26, 2016 Hot 1, 2, 3, 4, 7 Hot Manual Frequency OF Plantage	Center Freq 6.5000000		Avg Type: Log-Pwr	04:32:05 PM Dec 20, 2018 TRACE 12, 3, 4 TyPE PL MARKAN	Frequency
Ref Offset 13.6 dB 10 dB/div Ref 30.00 dBm	3	Mkr3 2,12 -37	27 0 GHz Auto Tun .69 dBm	Ref Offset 13.6 de	B n	MI	471 8.019 GHz -34.05 dBm	Auto Tuni
200 100 175			Center Fre 1,515000000 GH					Center Free 6 500000000 GH
400 2011	A2	3	30,00000 Mi			1	9100 de	Start Free 3.000000000 GH
40 D Cartani, Michael Provident Andrea State Andrea Stat Andrea State Andrea State	alan ayan da ya ya ya ya ya ya ya ya ya da ta da ya ya da ata da baran da ata da ya	and a second state of the second s	Stop Fre 3.00000000 GH		ter Materia de Canada de Sansa de Canada de Sansa de Canada de Canada de Canada de Canada de Canada de Canada d	مريانيون من يونيون من يونيون من يونيون من يونيون من المعالي ويا مريانيون من يونيون من	an hadayor teryadar Ay	Stop Free 10.000000000 GH
Start 30 MHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 3.600 ms	3.000 GHz (1001 pts) How walks Ma	Start 3.000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 11.	Stop 10.000 GHz 67 ms (1001 pts)	CF Step 700,000000 MH Auto Mar
1 N 1 T	704.2 MHz 26.89 dBm 1.418 0 GHz -38.96 dBm 2.127 0 GHz -37.69 dBm		Freq Offs 0 H		8.019 GHz -34.05 dBm			Freq Offse 0 H
7 8 9 10 11								
Mac .		STATUS		COM		STATUS		

3GHz~10GHz_Band17 10MHz_QPSK 1 0_LowCH23780-709



30MHz~3GHz_Band17 10MHz_QPSK 1 0_MidCH23790-710

3GHz~10GHz_Band17 10MHz_QPSK 1 0_HighCH23800-711



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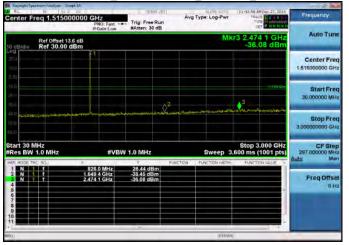
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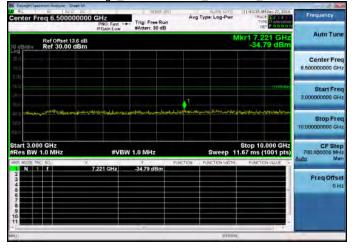
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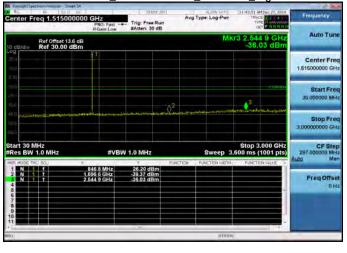
Out of Band Emission Low_Band26 1.4MHz_QPSK 1 0_LowCH26797-824.7 Out of Band Emission High_Band26 1.4MHz_QPSK 1 0_MidCH26915-836.5





Out of Band Emission High_Band26 1.4MHz_QPSK 1 0_ LowCH26797-824.7 Out of Band Emission Low_Band26 1.4MHz_QPSK 1 0_HighCH27033-848.3





Out of Band Emission Low_Band26 1.4MHz_QPSK 1 0_MidCH26915-836.5 Out of Band Emission High_Band26 1.4MHz_QPSK 1 0_ HighCH27033-848.3

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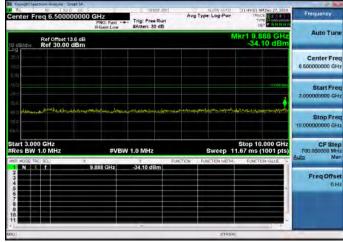
Center Fre

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CF Ste 297,000000 M

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1 0 044

26.49 de -38.74 de -37.45 de

837.8 MH 1.673 0 GH 2.509 5 GH

1.515000000 GHz

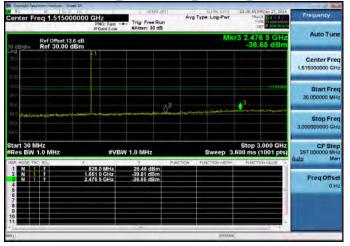
Ref Offset 13.6 dB Ref 30.00 dBm

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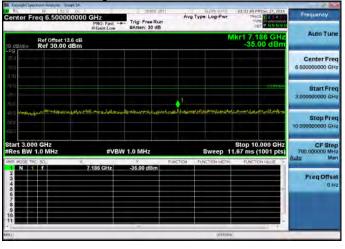


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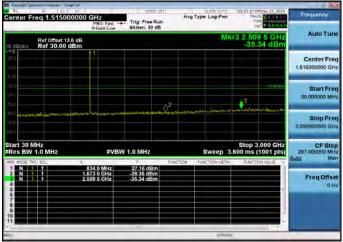
Out of Band Emission Low_Band26 3MHz_QPSK 1 0_LowCH26805-825.5



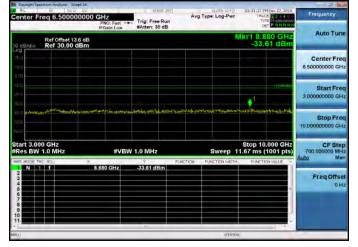
Out of Band Emission High_Band26 3MHz_QPSK 1 0_ LowCH26805-825.5



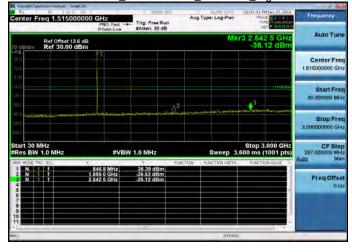
Out of Band Emission Low_Band26 3MHz_QPSK 1 0_MidCH26915-836.5



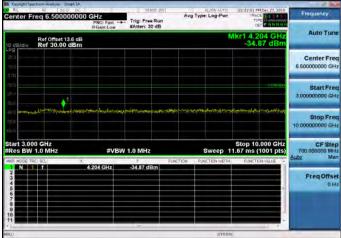
Out of Band Emission High_Band26 3MHz_QPSK 1 0_ MidCH26915-836.5



Out of Band Emission Low Band26 3MHz QPSK 1 0 HighCH27025-847.5



Out of Band Emission High_Band26 3MHz_QPSK 1 0_HighCH27025-847.5



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Out of Band Emission Low_Band26 5MHz_QPSK 1 0_LowCH26815-826.5 Out of Band Emission High_Band26 5MHz_QPSK 1 0_MidCH26915-836.5

Out of Band Emission Low_Band26 5MHz_QPSK 1 0_HighCH27015-846.5

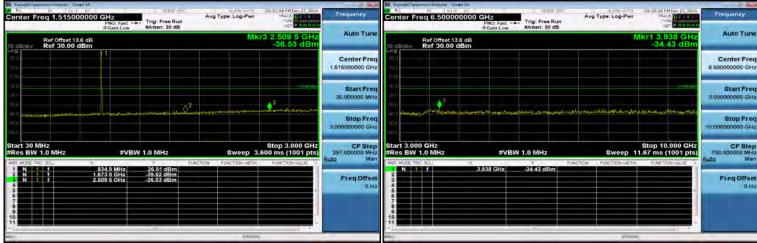
1 Outline Own		#Atten: 30 dB		r3 2.479 5 GHz	Auto Tune		PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Der Phone	Auto Tune
10 dB/div Ref 30.00 dBr	n n		IVIK	-35,47 dBm		10 dB/div Ref 30.00 dBr	iB m	Mkr1 5.478 GHz -35.44 dBm	
2010 10.0 1751					Center Freq 1.515000000 GHz				Center Free 6 500000000 GH
400 		Q^2		ationer S	Start Freq 30,000000 MHz	000	<u>.</u>	410180-	Start Free 3 000000000 GH
40.0 (1990)	wand had not not the	apaine an ann an Aran Sain an Aran Ar	and a second	an falender (1997)	Stop Freq 3,00000000 GHz	40 C Municipality (1999) was reprinted	send ville seiller son son faller og band seren som som som filler og bandeler. Ar so	altra disertefisisisi si si di di seconda di s	Stop Free 10.000000000 GH
Start 30 MHz #Res BW 1.0 MHz	#VBW	V 1.0 MHz	the state of the s	Stop 3.000 GHz 600 ms (1001 pts)	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Stop 10.000 GHz Sweep 11.67 ms (1001 pts)	
Mirk Mobe TRC, SCL 1 N 1 T 2 N 1 T 3 N 1 T 4 5	826.0 MHz 1.663 0 GHz 2.479 5 GHz	26.79 dBm -39.13 dBm -35.47 dBm	NOWFUNCTION WIDTH:	FUNCTION VALUE	Freq Offset 0 Hz	MRP MODE TRC SCL	× ¥ F 5.478 GHz -35.44 dBm	UNCTION FUNCTION WOTH FUNCTION VALUE >	Freq Offset
6 7 8 9 10						6 7 8 9 10			
1		-	eratus		A second s			STATUS	

Out of Band Emission High_Band26 5MHz_QPSK 1 0_LowCH26815-826.5

ter Freq 5.500000000 GHz ter Freq 1.515000000 GHz Avg Type: Lo Trig: Free Run Trig: Free Run Auto Tu Auto Tu Ref Offset 13.6 dB Ref 30.00 dBm 7.249 G Ref Offset 13.6 dB Ref 30.00 dBm Center Fr Center Fre Start Fre Start Fre Stop Fre Stop Fre 3.000 GHz Stop 10.000 GH Stop 3.000 GH CF Step CF Ste 30 MHz BW 1.0 #VBW 1.0 MH #VBW 1.0 MH 26 297.0 26.19 dB 40.13 dB 843.8 MHz 1.693.0 GHz 2.539.5 GHz Freq Offse Freq Offse

Out of Band Emission Low_Band26 5MHz_QPSK 1 0_MidCH26915-836.5

Out of Band Emission High_Band26 5MHz_QPSK 1 0_HighCH27015-846.5



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Out of Band Emission Low_Band26 10MHz_QPSK 1 0_LowCH26840-829

Out of Band Emission High_Band26 10MHz_QPSK 1 0_MidCH26915-836.5

Out of Band Emission Low_Band26 10MHz_QPSK 1 0_HighCH26990-844

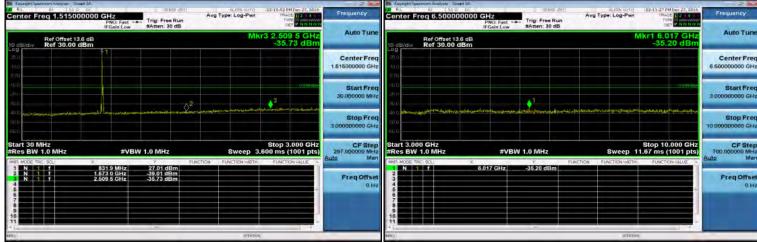
Center Freg 1.5150000	DC SENSE SUT 000 GH2 PNO: Fast IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr TRace T2 - 27, 2010 Avg Type: Log-Pwr TRace T2 - 27, 2010 TVPE Det P 11, 21	Frequency	Mile All State Description State These and the state All of state These and the state <thtese and="" state<="" th="" the=""> <thtese and="" state<="" th="" the=""></thtese></thtese>	Frequency
10 dB/div Ref Offset 13.6 Ref 30.00 dB	dB Jm	Mkr3 2.487 0 GHz -36.73 dBm	Auto Tune	Ref Offset 13.6 dB Mkr1 7.641 GHz 10 dB/div Ref 30.00 dBm -34.17 dBm	Auto Tune
2010 10:0 2:20	÷1		Center Freq 1.515000000 GHz		Center Free 6 50000000 GH
40 0 40 0 50 0	*2		Start Freq 30,000000 MHz	200 jan	Start Free 3.000000000 GH
40.0 a 20 a	assand loss as a surger of a concerned with the definition of	مريسي مر مريسي مريسي مريس	Stop Freq 3,000000000 GHz		Stop Fred 10 000000000 GH
Start 30 MHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Stop 3.000 GHz Sweep 3.600 ms (1001 pts)		#Res BW 1.0 MHz #VBW 1.0 MHz Sweep 11.67 ms (1001 pts)	CF Step 700.000000 MH
MMR MODE TRC: SCL 1 N 1 T 2 N 1 T 3 N 1 T 4 5	826.0 MHz 26.71 dBm 1.658 0 GHz 40.19 dBm 2.487 0 GHz 36.73 dBm	CTION FUNCTION WIGHT FUNCTION VALUE -	Freq Offset 0 Hz		Freq Offset 0 Hz
6 8 9 10 11					
• COM		STATUS		eratus	-

Out of Band Emission High_Band26 10MHz_QPSK 1 0_LowCH26840-829

ter Freg 6.50000000 GHz ter Freq 1.515000000 GHz Avg Type: Log Trig: Free Run Trig: Free Run Auto Tur Auto Tur Ref Offset 13.6 dB Ref 30.00 dBm Ref Offset 13.6 dB Ref 30.00 dBm Center Fr Center Fre Start Fre Start Fre Stop Fre Stop Fre Stop 10.000 GH 3.000 GHz Stop 3.000 GH CF Step CF Ste 30 MHz BW 1.0 #VBW 1.0 MH #VBW 1.0 MH 26 297.0 26.63 dE -38.36 dE -36.18 dE 840.8 M 1.688 0 G 2.532 0 G Freq Offse Freq Offse

Out of Band Emission Low_Band26 10MHz_QPSK 1 0_MidCH26915-836.5

Out of Band Emission High_Band26 10MHz_QPSK 1 0_HighCH26990-844



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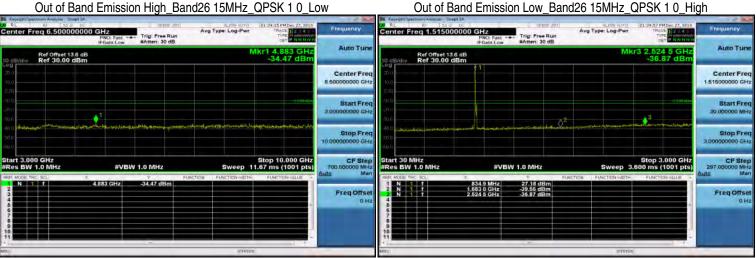
Report No.: ER/2016/C0032 Page 255 of 399

Out of Band Emission Low_Band26 15MHz_QPSK 1 0_Low

Out of Band Emission High_Band26 15MHz_QPSK 1 0_Mid

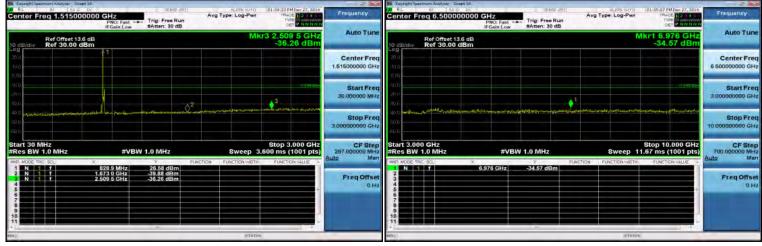
Center Freq 1.515000	DC.	a sense ovr	Aug Type: Log-Pwr	01:04:05 PM Dec 27, 2010	Frequency	Center Freq 6.50000000		ALIGN ALITO (01:34:43 PM Dec 27, 2016 Avg Type: Log-Pwr TRACE 12:04 4	Frequency
Ref Offset 13.6	PNO: Fast IFGain:Low			r3 2.494 5 GHz	Auto Tune	Ref Offset 13.6 dB	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Mkr1 3.665 GHz	Auto Tune
10 dB/div Ref 30.00 dB	Bm ř1			-36.29 dBm	Center Freq 1.515000000 GHz	10 dB/div Ref 30.00 dBm		-34.51 dBm	Center Free 6 50000000 GH
-100 -100 -100		0 ²		0100 ster	Start Freq 30,000000 MHz	2011 30.0		1101621	Start Free 3.000000000 GH
40.0 and a constant of a const	anaansee The sequence and second	and for the second standing of the second standing of the second standing of the second standing of the second	Allen	الحفر فليس الحمر الحمر	Stop Freq 3,00000000 GHz	40 D	all ^{an} a suite an air than a bhann air tha tha tha tha an air an air ann an ann an ann an ann an ann ann an	el freed, siegen van gener Altry van faarmeliken van genoer gevoer van verste stoere	Stop Free 10:000000000 GH
Start 30 MHz #Res BW 1.0 MHz MRR MODE TRC SCL	x	1.0 MHz Y FUNCTIO	the second s	Stop 3.000 GHz 600 ms (1001 pts) FUNCTION VALUE		Start 3.000 GHz #Res BW 1.0 MHz MRR MODE TRC SOL XX		Stop 10.000 GHz Sweep 11.67 ms (1001 pts)	CF Step 700.000000 MHA Auto Mar
1 N 1 F 2 N 1 F 4 N 1 F 4 6 7 8 9 9	826.0 MHz 1.663.0 GHz 2.494.5 GHz	26.51 dBm -39.07 dBm -36.29 dBm			Freq Offset 0 Hz	N 1 7	3,665 GHz -34.61 dBm		Freq Offse 0 H
			STATUS			11 Mar 11		STATUS	

Out of Band Emission High_Band26 15MHz_QPSK 1 0_Low



Out of Band Emission Low_Band26 15MHz_QPSK 1 0_Mid

Out of Band Emission High_Band26 15MHz_QPSK 1 0_High



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Report No.: ER/2016/C0032 Page 256 of 399

Out of Band Emission Low_Band41 5MHz_QPSK 1 0_Low

Out of Band Emission High_Band41 5MHz_QPSK 1 0_Mid

Out of Band Emission Low Band41 5MHz QPSK 1 0 High

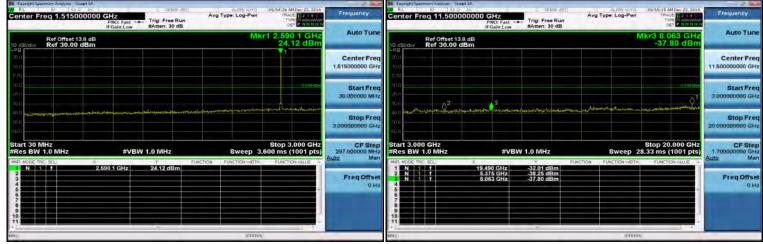
Koyacht Spachtim Analyzer - Shapp SA RL RI SLO DC Center Freq 1.5150000000	GHZ PNO: Fast IFGain:Low #Atten: 30 dB	Avg Type: Log-Pwr TRact D 1 4	Frequency	Conter Freq 11.50000	DC. 1 SENSE JWT	Aug Type: Log-Pwr	09:54:40 M/Dec 72, 2010 TRADE 1 2 3 4 3 1 TVPE 14 00000000 DET P N/P/000000	Frequency
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000 200		1101824	Start Freq 30.000000 MHz	50.0 x2	3	\$ ¹	9.(076De	Start Freq 3.000000000 GHz
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Start 30 MHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Stop 3.000 GHz Sweep 3.600 ms (1001 pts)	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Sweep 28.	Stop 20.000 GHz 33 ms (1001 pts) Function value	CF Step 1.700000000 GHz Auto Man
1 N 1 f 2.	498 1 GHz 26.46 dBm		Freq Offset 0 Hz	1 N 1 T 2 N 1 T 3 N 1 T 4	14.254 GHz31.67 dBm 5.186 GHz38.86 dBm 7.779 GHz37.31 dBm			Freq Offset 0 Hz
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MISC)	-	STATUS		MISCI .		STATUS		

Out of Band Emission High Band41 5MHz QPSK 10 Low

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PL AU So or cold State 2VT Audo burro Deschart Contor Freq 11.500000000 GHz Freq 100 Fest Trig: Free Run Arctic Herror Avg Type: Log-Pwr Trig: Descent Freq 1.500 Freq 1.500 Galactic Article	Frequency	00 RL NJ 130 C C 20100 2011 4.00 MUTC 109 2500 MURC 22,200 M Center Freq 1.515000000 GHz Trig: Free Run Avg Type: Log-Pwr Tricc F 23 251 1 Fical Log Addition Addition Addition 3 dB c 1 Port 1000 Addition Additaddition Addition Addition Addition Addition Additiona	Frequency
Ref Offset 13.8 dB Mkr3 7.496 GHz No dB/div Ref 30.00 dBm -36.85 dBm	Auto Tune	Ref Offset 13.8 dB MKr1 2,685 2 GHz 10 gB/div Ref 30.00 dBm 26.35 dBm	Auto Tune
	Center Freq 11.500000000 GHz		Center Freq 1.515000000 GHz
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201 10 - Hand Hannard Hanne Baadhar an Sanadhar de Marster an training an an Annar an an Annar Annar Annar Annar Anna	Stop Freq 20.00000000 GHz		Stop Freq 3.000000000 GHz
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N I F 19.099 GHz -32.25 dBm 2 N 1 4.997 GHz -37.38 dBm 3 N 1 7.496 GHz -36.85 dBm 4 7 7.496 GHz -36.85 dBm	Freq Offset 0 Hz	1 N 1 T 26852 GHz 26.35 dBm	Freq Offset 0 Hz
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Out of Band Emission Low_Band41 5MHz_QPSK 1 0_Mid

Out of Band Emission High_Band41 5MHz_QPSK 1 0_High



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Report No.: ER/2016/C0032 Page 257 of 399

Out of Band Emission Low_Band41 10MHz_QPSK 1 0_Low

Out of Band Emission High_Band41 10MHz_QPSK 1 0_Mid

Out of Band Emission Low Band41 10MHz QPSK 1 0 High

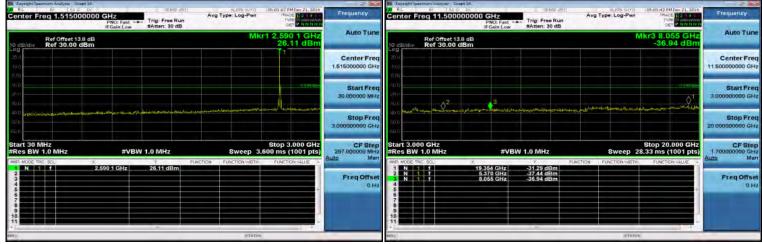
	Kayaght Spachsen Ananyae - Shapt SA
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GHz Auto Tune dBm	Ref Offset 13.8 dB Mkr3 7.779 GHz Au 10 dB/div Ref 30.00 dBm -36.23 dBm
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Start Freq 30,000000 MHz	H2 300000
Stop Freq 3.00000000 GHz	
1 pts) 297,000000 MHz	
Preg Offset 0 Hz	1 N 1 f 14.237 GHz -31.08 dBm 2 N 1 f 5.186 GHz -38.37 dBm 3 N 1 f 7.779 GHz -38.23 dBm
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Out of Band Emission High Band41 10MHz QPSK 1 0 Low

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100 -01 -02	3	- Internet and the second seco	3.000000000 GHz	300	Start Freq 30,000000 MHz
40 0 1997 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 50 0	le de la componente de la	n na sense na sense Na sense na s	Stop Freq 20 00000000 GHz		Stop Freq 3.000000000 GH/
Start 3.000 GHz Res BW 1.0 MHz WR MODE TRC SCL X		Stop 20.000 G Sweep 28.33 ms (1001 p ction , Function withth, Function value	(S) 1,70000000 GHz	MRR MODE TRC SCL X Y FUNCTION WIDTH, FUNCTION VALUE ×	CF Step 297.000000 MHJ Auto Mar
2 N 1 T 5.	.896 GHz -31.66 dBm .002 GHz -36.80 dBm .803 GHz -37.39 dBm		Freq Offset 0 Hz	1 N 1 T 2.682 2.GHz 26.64 dBm	Freq Offset 0 Hz
8 9 10 11					
e0.)		status		CRM CONTATE	

Out of Band Emission Low_Band41 10MHz_QPSK 1 0_Mid

Out of Band Emission High_Band41 10MHz_QPSK 1 0_High



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Out of Band Emission Low_Band41 15MHz_QPSK 1 0_Low

OOut of Band Emission High_Band41 15MHz_QPSK 1 0_Mid

Out of Band Emission Low Band41 15MHz QPSK 10 High

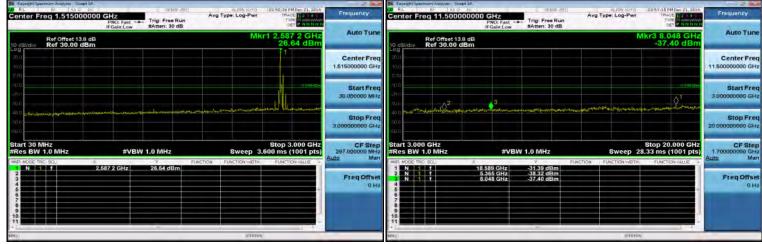
Kayaght Spactson Analyzer - Skapt SA	and the second second	Keynght: Spectrum: Anunyzer - Strapt SA				
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400 sectors and a sector	Stop Freq 3,00000000 GHz		Stop Free 20 000000000 GH			
Start 30 MHz Stop 3.000 GH: #Res B05 M 2.0 MHz #VBW 1.0 MHz Sweep 3.600 ms (1001 pts) #RM M05 M 2.0 MHz 2 Participal pts//result	Z CF Step 297,000000 MHz Auto Man	Start 3.000 GHz Stop 20.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) work inder Kers Sci x Platton Function Function	CF Step 1.700000000 GHz			
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I CONTRACTOR CONT		enco status	-			

Out of Band Emission High Band41 15MHz QPSK 1 0 Low

		Kvjedit Sector Ankar - Sket SA	1		
Conter Freq 11.500000000 GHz PROF Fact Trig: Free Run Free August State Stat	Frequency	00 RL NI SDO DC SERVICE (1997) AUDITOR (2010) PHO 51,2010 Center Freq 1.515000000 CHz Trig: Free Run Avg Type: Log-Pwr Trice Free Run IFGall.com #Atten: 30 dB c Protection	Frequency		
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270 100 1730	Center Freq 11.500000000 GHz		Center Freq 1.515000000 GHz		
100	Start Freq 3,000000000 GHz		Start Free 30,000000 MHz		
n og men ^{fra} nsen en som en som En som en som En som en som	Stop Freq 20.00000000 GHz	400 400 400 400 400 400 400 400	Stop Free 3.000000000 GH		
tart 3.000 GHz Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) אק אספר דאכן scul x y Punchon , Function worth, Function worth, Function worth	CF Step 1.700000000 GHz Auto Man	MKR MODE TRC SCL X Y FUNCTION (IDTH) FUNCTION VALUE -	CF Step 297.000000 MH		
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		7 8 9 9 10 11			
o) crátus		eratus	-		

Out of Band Emission Low_Band41 15MHz_QPSK 1 0_Mid

Out of Band Emission High_Band41 15MHz_QPSK 1 0_High



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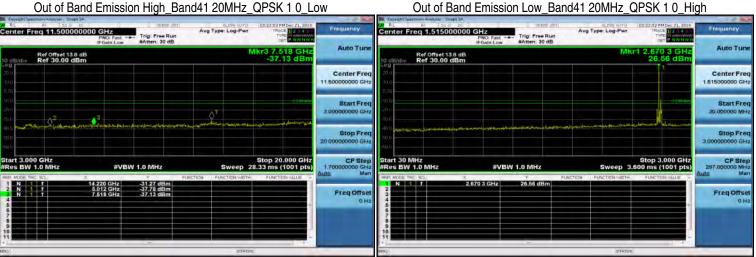
Report No.: ER/2016/C0032 Page 259 of 399

Out of Band Emission Low_Band41 20MHz_QPSK 1 0_Low

Out of Band Emission High_Band41 20MHz_QPSK 1 0_Mid

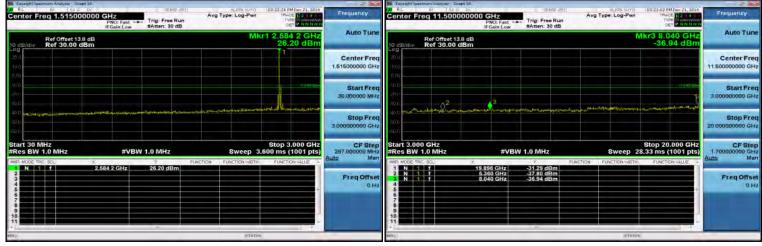
Kayaght Spactneri Analyzer - Sivapt SA		Ma. Keyaght Spactoum Analyze - Shapt SA	
Mill Mill Salo DC Streed and Automator Calability person Control Freq 1.5150000000 GHz Center Freq 1.5150000000 GHz Free Run Avg Type: Log-Pwr Trace Free Run Trace Free	Frequency	0 8. av 15.00 00.0000 GH2 Center Freq 11.5000000000 GH2 PHO Fest ↔→ Trig: Free Run Frequencies 3 of B	Frequency
Ref Offset 138 dB Mkr1 2.498 1 GH		Ref Offset 13.9 dB Mkr3 7.779 GHz Vo dBrdiv Ref 30.00 dBm -34.51 dBm	Auto Tune
	Center Freq 1.515000000 GHz		Center Freq 11.500000000 GHz
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40 S Beneralise interviewent of the second s	Stop Freq 3.000000000 GHz		Stop Freq 20.000000000 GHz
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1 N 7 f 2.498 1 GHz 26.45 dBm	Freq Offset	1 N 1 f 19.082 GHz -31.53 dBm 2 N 1 f 5.185 GHz -39.04 dBm 3 N 1 f 7.779 GHz -34.51 dBm	Freq Offset 0 Hz
NES) ETÁTUS		MRQ STATUS	

Out of Band Emission High_Band41 20MHz_QPSK 1 0_Low



Out of Band Emission Low_Band41 20MHz_QPSK 1 0_Mid

Out of Band Emission High_Band41 20MHz_QPSK 1 0_High



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Out of Band Emission_Band26 for Part 90S_1.4M-QPSK-1 0HIGH-30M-3G Out of Band Emission_Band26 for Part 90S_1.4M-QPSK-1 0-LOW-3G-10G

Trig: Free Run Auto Tur Ref Offset 13.6 dB Ref 30.00 dBm Center Fre 1.5150 00 G Start Fre 30 000000 M Stop Fre Stop 3.000 G CFSI 30 MHz 814.1 MH 1.629 4 GH 2.444 1 GH 26.12 d -39.47 d -36.69 d Freq Offe

er Freg 1.515000000 GHz Trig: Fre Auto Tun Ref Offset 13.6 dB Ref 30.00 dBm Center Fre Start Fre Stop Fre Stop 3.000 0 0 ms (1001 CF Ste 30 MHz BW 1.0 823.0 MHz 1.646.6 GHz 2.469.9 GHz 26.47 d -38.57 d Freq Offs

Trig: Free Run

#VBW 1.0 MH

Auto Tun

Center Fre

Start Fre

Stop Fre

CF Ste

Freq Offse

Stop 10.000 ep 11.67 ms (1001

Out of Band Emission_Band26 for Part 90S_1.4M-QPSK-1 0-MID-3G-10G

Auto Tun

Center Fre

Start Fre

Stop Fre

CF Ste

Freq Offs

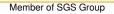
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nter Freq 1.515000000 GHz Trig: Free Run #Atten: 30 dB Auto Tun Ref Offset 13.6 dE Ref 30.00 dBm Center Fre 1.5150 Start Fr Stop Fr CFS #VBW 1.0 MH 1.638 0 GHz 2.457 0 GHz -39.81 dE Freq Offse





r Freq 1.515000000 GHz

00000 GHz

4.897 GHz

台灣村

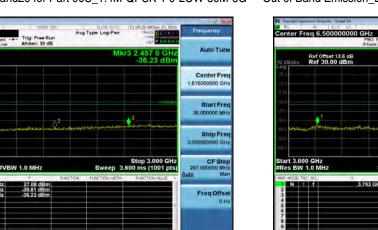
Ref Offset 13.6 dB Ref 30.00 dBm

000 GHz

Trig: Free

-34.94 0

Out of Band Emission_Band26 for Part 90S_1.4M-QPSK-1 0-HIGH-3G-10G



Out of Band Emission_Band26 for Part 90S_1.4M-QPSK-1 0-LOW-30M-3G

Stop 10.000 G

Out of Band Emission_Band26 for Part 90S_1.4M-QPSK-1 0-MID-30M-3G

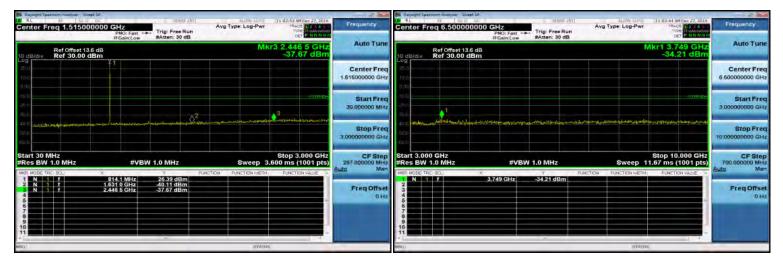


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Out of Band Emission_Band26 for Part 90S_3M-QPSK-1 0-HIGH-30M-3G

Out of Band Emission_Band26 for Part 90S_3M-QPSK-1 0-LOW-3G-10G



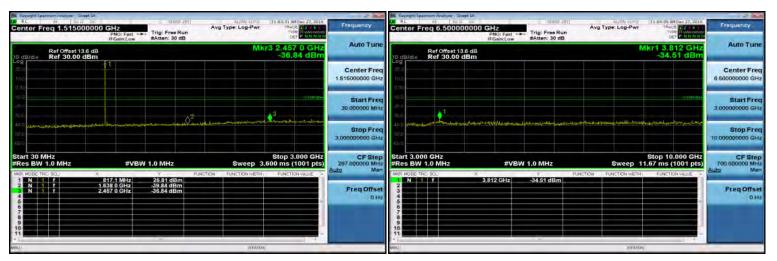
Out of Band Emission Band26 for Part 90S 3M-QPSK-1 0-HIGH-3G-10G

Ava Type: Loc Ava Type: Lo 1.5150 Trig: Free Run Auto Tu Auto Tur Ref Offset 13.6 dB Ref 30.00 dBm 34.73 d Ref Offset 13.6 dB Ref 30.00 dBm Center Fre Center Free Start Fr Start Fre Stop Fr Stop Fr 30 MHz Stop 10 11.67 ms / CF SI CF Step #VBW 1.0 MH 3.707 GH 823.0 MHz 1.645 0 GHz 2.467 5 GHz 26.51 dE -38.18 dE -35.14 dE Freq Offs Freq Offse

Out of Band Emission_Band26 for Part 90S_3M-QPSK-1 0-LOW-30M-3G

Out of Band Emission_Band26 for Part 90S_3M-QPSK-1 0-MID-3G-10G

Out of Band Emission Band26 for Part 90S 3M-QPSK-1 0-MID-30M-3G



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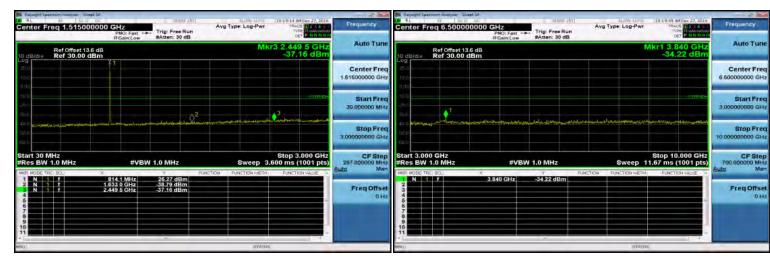
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Out of Band Emission_Band26 for Part 90S_5M-QPSK-1 0-HIGH-30M-3G

Out of Band Emission_Band26 for Part 90S_5M-QPSK-1 0-LOW-3G-10G



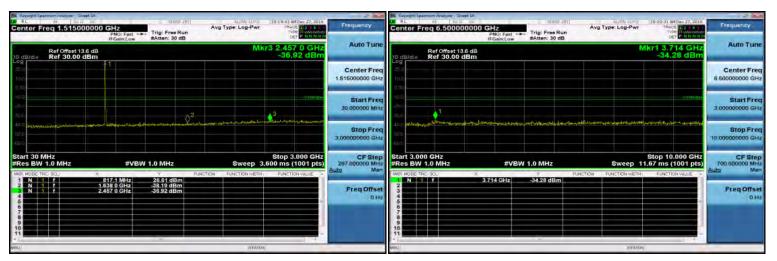
Out of Band Emission Band26 for Part 90S 5M-QPSK-1 0-HIGH-3G-10G

Ava Type: Los Ava Type: L 1.5150 Trig: Free Run Auto Tu Auto Tur Ref Offset 13.6 dB Ref 30.00 dBm Ref Offset 13.6 dB Ref 30.00 dBm Center Fre Center Free Start Fr Start Fre Stop Fr Stop Fr 30 MHz CF SI CF Step 00 GHz Stop 1 11.67 ms #VBW 1.0 MH 8.110 GH 26.73 dE 38.48 dE 820.0 MHz 1.643 0 GHz 2.464 5 GHz Freq Offs Freq Offse

Out of Band Emission_Band26 for Part 90S_5M-QPSK-1 0-LOW-30M-3G

Out of Band Emission_Band26 for Part 90S_5M-QPSK-1 0-MID-3G-10G

Out of Band Emission Band26 for Part 90S 5M-QPSK-1 0-MID-30M-3G



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Out of Band Emission_Band26 for Part 90S_10M-QPSK-1 0-MID-30M-3G

RL III Sho DC enter Freq 1.515000000	GHz PNO: Fast	SENSE JUT Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	(89-53:07 AM Dec 27, 2010 TRACE 1 2 3 4 3 TYPE PLANAMENT DET PLANAMENT	Frequency
Ref Offset 13.6 dB			Mk	r3 2.457 0 GHz -36.72 dBm	Auto Tune
2g 000 000	1				Center Free 1.515000000 GH
00		02			Start Free 30,000000 MH
0.0 Distanti <mark>Sing pala di dan pananana di sana</mark> Distanti di sana di san Di sana di sana	1	eisenne ein Sein-	and and a second se	and an also the the the second se	Stop Fre 3.000000000 GH
tart 30 MHz Res BW 1.0 MHz PR MODE TRC SCL X			Sweep 3.	Stop 3.000 GHz 600 ms (1001 pts) FUNCTION VALUE	CF Ster 297.000000 MH Auto Ma
2 N 1 t 1.	814.1 MHz 638.0 GHz 467.0 GHz	26.06 dBm -39.10 dBm -36.72 dBm		-	Freq Offse OH
			TATUS		

Out of Band Emission_Band26 for Part 90S_10M-QPSK-1 0-MID-3G-10G

enter Fi	req 5.50000		Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	09:53:25 MI Dec 27, 2016 TRACE 1 2 3 4 5 TVPE DOM: 0017	Frequency
0 dB/div	Ref Offset 13. Ref 30.00 d	6 dB	WELLEY OF DE	1	Mkr1 7.921 GHz -34.72 dBm	Auto Tune
0.0						Center Free 6 500000000 GH
				1	410760A	Start Fre 3.000000000 GH
g Versland (p	ومعداسين روابع	ad a construction of the Back of the State	enanderis stradi nar daniş	hadresspenderated oppinger and started of the	halenen is komte antalan og k	Stop Fre 10.000000000 GH
art 3.00 Res BW	1.0 MHz	#VE	W 1.0 MHz	Sweep 1	Stop 10.000 GHz 1.67 ms (1001 pts)	CF Ste 700.000000 MH Auto Ma
	r r	7.921 GHz	-34.72 dBm			Freq Offse
3					-	0.0
3 4 5 6 7 8 9 9						

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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) , §27.53(g)(h) , the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

FCC §27.53 (m) (4) shall not be less than 55 +10log(mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

§27.53 (c)

(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;

§27.53 (f) 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 wideband 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.

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

Frequency (MHz)	Attenuation (dB)
<2200	43 + 10 log10(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 log10(p)Note
2320 - 2324	55 + 10 log10(p)
2324 - 2328	61 + 10 log10(p)
2328 - 2337	67 + 10 log ₁₀ (p)
2337 - 2341	61 + 10 log10(p)
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	43 + 10 log10(p)Note
2360 - 2365	43 + 10 log10(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 5.2 for the permitted frequency ranges for various equipment types.

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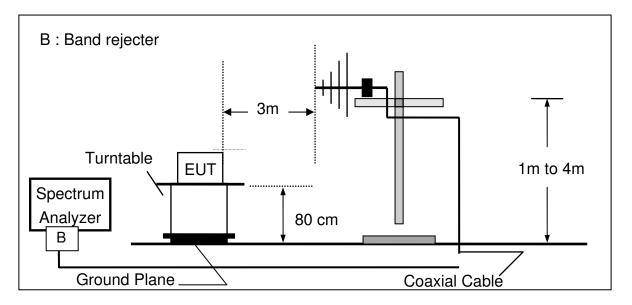
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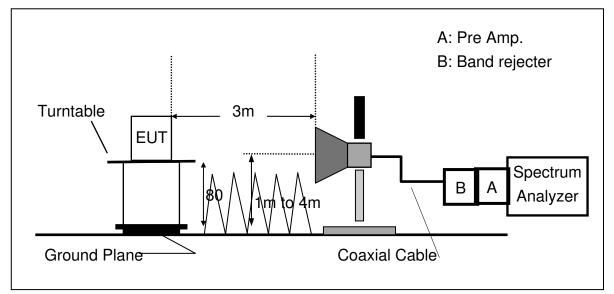


10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.3. 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)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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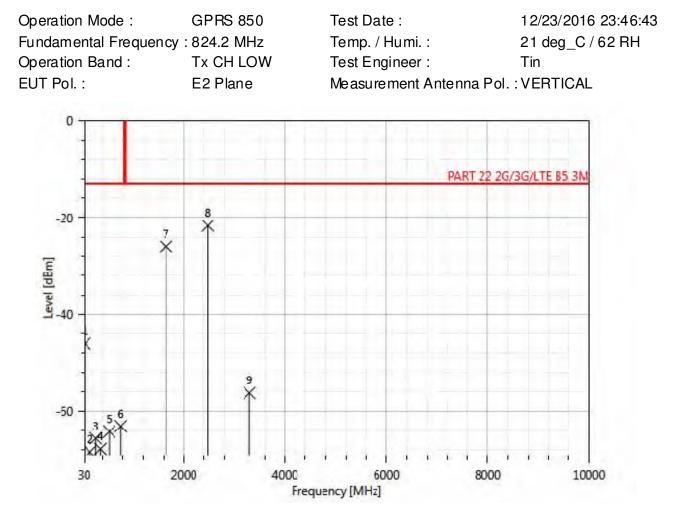
10.4. Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber										
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.					
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017					
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017					
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017					
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017					
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017					
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017					
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017					
Turn Table	HD	DT420	N/A	N.C.R	N.C.R					
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R					
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R					
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2016	01/01/2017					
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017					
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017					
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017					
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2016	01/01/2017					
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017					
Radio Communication Analyer	Anritsu	MT8820C	6201465317	12/10/2016	12/09/2017					
Signal Generator	Agilent	E4438C	MY45093613	07/07/2016	07/06/2017					
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2016	01/01/2017					
Filter 1800-2000	Micro-Tronics	EWT	M1	01/02/2016	01/01/2017					
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2016	01/01/2017					
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2016	01/01/2017					



10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: GPRS 850 Mode



Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
41.64	S	Peak	-46.00	-32.17	-12.83	-1.00	-13.00	-33.00
146.40	S	Peak	-68.39	-64.67	-2.31	-1.42	-13.00	-55.39
260.86	S	Peak	-65.58	-67.46	3.66	-1.78	-13.00	-52.58
353.01	S	Peak	-67.76	-69.54	3.86	-2.07	-13.00	-54.76
527.61	S	Peak	-64.18	-65.41	3.71	-2.47	-13.00	-51.18
755.56	S	Peak	-63.10	-63.26	3.20	-3.04	-13.00	-50.10
1648.40	S	Peak	-26.02	-28.91	7.11	-4.22	-13.00	-13.02
2472.60	S	Peak	-21.67	-25.18	8.73	-5.22	-13.00	-8.67
3296.80	S	Peak	-56.20	-60.06	9.90	-6.04	-13.00	-43.20

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Operation M Fundamenta Operation B EUT Pol. :	al Frequency	GPRS 850 : 824.2 MHz Tx CH LOW E2 Plane	Test Date : Temp. / Humi. : Test Engineer : Measurement Ar				
-	1						
1				PART 22 2G/3G/LTE B	5 3M		
-20							
[mg]	7						
Level [dBm]	×						
-							
1		8					
-50 -		9					
-3	as×	Î Î Î					
30	20	400	6000 requency [MHz]	8000	10000		
Freq.		Decetor ERP			imit Margin		

Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
30.00	S	Peak	-53.92	-38.19	-14.78	-0.96	-13.00	-40.92
216.24	S	Peak	-72.06	-73.76	3.40	-1.69	-13.00	-59.06
257.95	S	Peak	-67.02	-68.88	3.63	-1.77	-13.00	-54.02
369.50	S	Peak	-69.56	-71.21	3.85	-2.20	-13.00	-56.56
536.34	S	Peak	-68.31	-69.41	3.66	-2.56	-13.00	-55.31
788.54	S	Peak	-63.86	-64.26	3.31	-2.90	-13.00	-50.86
1648.40	S	Peak	-37.43	-40.31	7.11	-4.22	-13.00	-24.43
2472.60	S	Peak	-53.71	-57.22	8.73	-5.22	-13.00	-40.71
3296.80	S	Peak	-60.37	-64.23	9.90	-6.04	-13.00	-47.37



Operation Mode : Fundamental Frequency Operation Band : EUT Pol. :	GPRS 850 : 836.6 MHz Tx CH MID E2 Plane	Test Date : Temp. / Hu Test Engine Measureme		21 deg Tin	2016 23:46:49 _C / 62 RH CAL
0	8		PART 2	2 2G/3G/LTE 85	5 3M
20 / X [wgp]	*				
-40 	×				
					
30 20	000 4000 Frequ	6000 Jency [MHz]	80	00	10000
1	Decetor ERP Mode Level	SG Output Level			mit Margin 3m
MHz F/H/E/S Q	P/AV/PK dBm	dBm	dBd		Bm dB

	1109.	11010	Decetor	L 111	ou ouipui	/ morna	oubio	E	margin	
			Mode	Level	Level	Gain	Loss	@3m		
_	MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB	
-	39.70	S	Peak	-43.69	-29.59	-13.11	-0.99	-13.00	-30.69	
	148.34	S	Peak	-67.28	-63.66	-2.19	-1.42	-13.00	-54.28	
	293.84	S	Peak	-62.05	-63.61	3.50	-1.94	-13.00	-49.05	
	411.21	S	Peak	-69.20	-70.59	3.78	-2.39	-13.00	-56.20	
	527.61	S	Peak	-64.19	-65.42	3.71	-2.47	-13.00	-51.19	
	754.59	S	Peak	-62.58	-62.72	3.20	-3.05	-13.00	-49.58	
	1673.20	S	Peak	-23.69	-26.60	7.20	-4.29	-13.00	-10.69	
	2509.80	S	Peak	-16.94	-20.44	8.76	-5.26	-13.00	-3.94	
	3346.40	S	Peak	-44.81	-48.53	9.99	-6.26	-13.00	-31.81	



Operation EUT Pol.	ntal Freque Band :	GPRS 85 ncy : 836.6 Mł Tx CH M E2 Plane	Hz ID	Test Date : Temp. / Hu Test Engine Measureme	mi. : eer :	21 Tir		62 RH
0 -					PART	22 2G/3G/L	.TE 85 3M	
-20 -	-	7 ×						
[mgp] Jave [mgp]	- - - -		9 K					
-50 -	30	2000	4000 Frequ	6000 Jency [MHz]		8000	10000)
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	ERP Level dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit @3m dBm	Margin dB

i i oqi	11010	D C C C C C			/ Internet	oublo	=	margin	
		Mode	Level	Level	Gain	Loss	@3m		
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB	
31.94	S	Peak	-55.24	-39.96	-14.31	-0.96	-13.00	-42.24	
214.30	S	Peak	-72.15	-73.90	3.44	-1.68	-13.00	-59.15	
260.86	S	Peak	-68.63	-70.51	3.66	-1.78	-13.00	-55.63	
415.09	S	Peak	-70.07	-71.47	3.77	-2.37	-13.00	-57.07	
524.70	S	Peak	-68.94	-70.22	3.72	-2.44	-13.00	-55.94	
759.44	S	Peak	-63.63	-63.83	3.21	-3.02	-13.00	-50.63	
1673.20	S	Peak	-26.60	-29.51	7.20	-4.29	-13.00	-13.60	
2509.80	S	Peak	-21.93	-25.43	8.76	-5.26	-13.00	-8.93	
3346.40	S	Peak	-51.00	-54.72	9.99	-6.26	-13.00	-38.00	



Operation Mode : GPRS 850 Test Date : 12/23/2016 23:46:55 Fundamental Frequency : 848.8 MHz Temp. / Humi. : 21 deg_C / 62 RH **Operation Band :** Tx CH HIGH Test Engineer : Tin EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL 0 PART 22 2G/3G/LTE 85 3M -20 7 Level [dBm] 9 -50 4000 6000 30 2000 8000 10000 Frequency [MHz] SG Output Eroa Noto Docotor Antonno Cable Limit Marain

⊢req.	INOTE	Decetor	ERP	SG Output	Antenna	Cable	Limit	iviargin	
		Mode	Level	Level	Gain	Loss	@3m		
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB	
39.70	S	Peak	-45.50	-31.40	-13.11	-0.99	-13.00	-32.50	_
139.61	S	Peak	-67.16	-63.07	-2.70	-1.39	-13.00	-54.16	
262.80	S	Peak	-63.05	-64.89	3.63	-1.79	-13.00	-50.05	
335.55	S	Peak	-67.95	-69.81	3.80	-1.93	-13.00	-54.95	
527.61	S	Peak	-63.92	-65.16	3.71	-2.47	-13.00	-50.92	
754.59	S	Peak	-62.52	-62.66	3.20	-3.05	-13.00	-49.52	
1697.60	S	Peak	-25.30	-28.28	7.28	-4.31	-13.00	-12.30	
2546.40	S	Peak	-16.24	-19.73	8.81	-5.33	-13.00	-3.24	
3395.20	S	Peak	-40.55	-44.37	10.07	-6.26	-13.00	-27.55	

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Operation Mode : GPRS 850 Test Date : 12/23/2016 23:46:58 Fundamental Frequency : 848.8 MHz Temp. / Humi. : 21 deg_C / 62 RH **Operation Band :** Tx CH HIGH Test Engineer : Tin EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL 0 PART 22 2G/3G/LTE 85 3N -20 evel [dBm] 8 -40 9 -50 2000 4000 6000 30 8000 10000 Frequency [MHz]

Freq.	Note	Decetor	ERP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBd	dB	dBm	dB
31.94	S	Peak	-53.88	-38.60	-14.31	-0.96	-13.00	-40.88
214.30	S	Peak	-71.69	-73.44	3.44	-1.68	-13.00	-58.69
245.34	S	Peak	-66.48	-68.10	3.37	-1.75	-13.00	-53.48
408.30	S	Peak	-69.41	-70.79	3.79	-2.41	-13.00	-56.41
479.11	S	Peak	-68.23	-69.76	3.77	-2.24	-13.00	-55.23
760.41	S	Peak	-64.05	-64.25	3.22	-3.01	-13.00	-51.05
1697.60	S	Peak	-30.31	-33.29	7.28	-4.31	-13.00	-17.31
2546.40	S	Peak	-35.02	-38.50	8.81	-5.33	-13.00	-22.02
3395.20	S	Peak	-47.81	-51.63	10.07	-6.26	-13.00	-34.81

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755.56

3700.40

S

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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Fundan	on Band :	GSM uency : 1850. Tx CF E2 Pl	2 MHz I LOW	Test Date Temp. / Hu Test Engin Measurem	ımi. :	21 d Tin	3/2016 23 eg_C / 62 TICAL	
	0						-	
					PART 2	4 2G/3G/LTE	82 3M	
-2	0							
Level [dBm]	-							
ਭ -4	0							
	Ì						_	
	35.	×						
-5	°		1 1 1					
	30	5000		10000 Frequency [MHz]	15000		20000	
Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode QP/AV/PK	Level dBm	Level dBm	Gain dBi	Loss dB	@3m dBm	dB
39.70	S	Peak	-43.84	-31.89	-10.96	-0.99	-13.00	-30.84
148.34	S	Peak	-64.40	-62.93	-0.04	-1.42	-13.00	-51.40
296.75	S	Peak	-60.10	-63.86	5.71	-1.95	-13.00	-47.10
348.16	S	Peak	-62.63	-66.60	6.00	-2.03	-13.00	-49.63
527.61	S	Peak	-60.83	-64.22	5.86	-2.47	-13.00	-47.83

-61.36

-55.08

Peak

Peak

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-63.67

-60.94

5.35

12.44

-13.00

-13.00

-3.04

-6.58

-48.36

-42.08



243.40

400.54

527.61

798.24

3700.40

S

S

S

S

S

Fundai Operat	Operation Mode : Fundamental Frequence Operation Band : EUT Pol. :		1900 2 MHz 1 LOW ane	Test	. / Humi. : Engineer :	12/23/2016 23:48:40 21 deg_C / 62 RH Tin enna Pol. : HORIZONTAL		
	0		-					
					P	ART 24 2G/3G/L	TE 82 3M	
-	20							
Ē	-							
Level [dBm]	10						-	
27	-						_	
		7 X						
-	w - 6							
			1 1	- 1- 1- 1				
	30	5000		10000 Frequency [MI		5000	20000	
Freq.	Note	Decetor	EIRP	SG Out	put Anten	na Cable	Limit	Margin
		Mode	Level	Leve			@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm			dBm	dB
30.00	S	Peak	-51.08	-37.49			-13.00	-38.08
207.51	S	Peak	-69.81	-73.72	2 5.57	-1.66	-13.00	-56.81

-67.70

-67.56

-65.99

-62.56

-54.57

Peak

Peak

Peak

Peak

Peak

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-71.44

-71.14

-69.37

-65.14

-60.43

5.49

5.97

5.86

5.49

12.44

-1.75

-2.38

-2.47

-2.90

-6.58

-13.00

-13.00

-13.00

-13.00

-13.00

-54.70

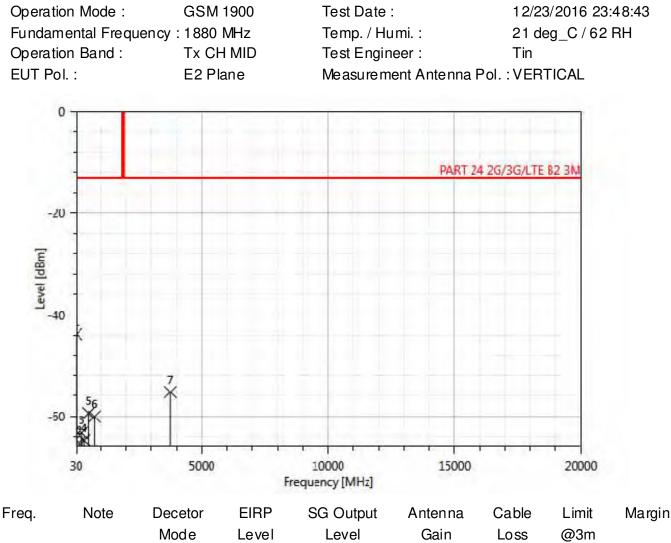
-54.56

-52.99

-49.56

-41.57





	rieq.	NOLO	Decetor		ou ouipui	Antenna	Oable		margin	
			Mode	Level	Level	Gain	Loss	@3m		
	MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB	
-	39.70	S	Peak	-43.79	-31.84	-10.96	-0.99	-13.00	-30.79	_
	148.34	S	Peak	-65.21	-63.75	-0.04	-1.42	-13.00	-52.21	
	259.89	S	Peak	-63.22	-67.27	5.83	-1.77	-13.00	-50.22	
	352.04	S	Peak	-64.69	-68.64	6.01	-2.06	-13.00	-51.69	
	527.61	S	Peak	-59.41	-62.79	5.86	-2.47	-13.00	-46.41	
	754.59	S	Peak	-60.08	-62.38	5.35	-3.05	-13.00	-47.08	
	3760.00	S	Peak	-55.25	-61.11	12.45	-6.60	-13.00	-42.25	

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Fundar Operat	Operation Mode : Fundamental Frequency : Operation Band : EUT Pol. :		GSM 1900 : 1880 MHz Tx CH MID E2 Plane		Γest Date Γemp. / Ηι Γest Engir Measurem	umi. : neer :	nna Po	12/23/2016 23:48:46 21 deg_C / 62 RH Tin bl. : HORIZONTAL		
	0							1.1		
	-							20.0047		
						h	ART 24	2G/3G/LT	E 82 3M	
-	20 -									
					1.11				-	
Ē	1									
Level [dBm]	-								-	
Levi	10									
									_	
	¥	7								
	50 6	X								
	W.						-			
						-				
	30	5000			000 cy [MHz]	1	5000	1. 1.	20000	
Freq.	Note	Decetor	EIRP	SG	i Output	Anten	na	Cable	Limit	Margin
		Mode	Level		Level	Gai	٦	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm		dBm	dBi		dB	dBm	dB
31.94	S	Peak	-51.41		38.28	-12.1		-0.96	-13.00	-38.41
165.80	S	Peak	-71.55		70.99	0.94		-1.50	-13.00	-58.55
243.40	S	Peak	-67.13	-	70.87	5.49		-1.75	-13.00	-54.13

-67.88

-66.83

-62.45

-56.91

Peak

Peak

Peak

Peak

S

S

S

S

406.36

519.85

752.65

3760.00

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-71.41

-70.34

-64.73

-62.77

-2.42

-2.39

-3.06

-6.60

-13.00

-13.00

-13.00

-13.00

-54.88

-53.83

-49.45

-43.91

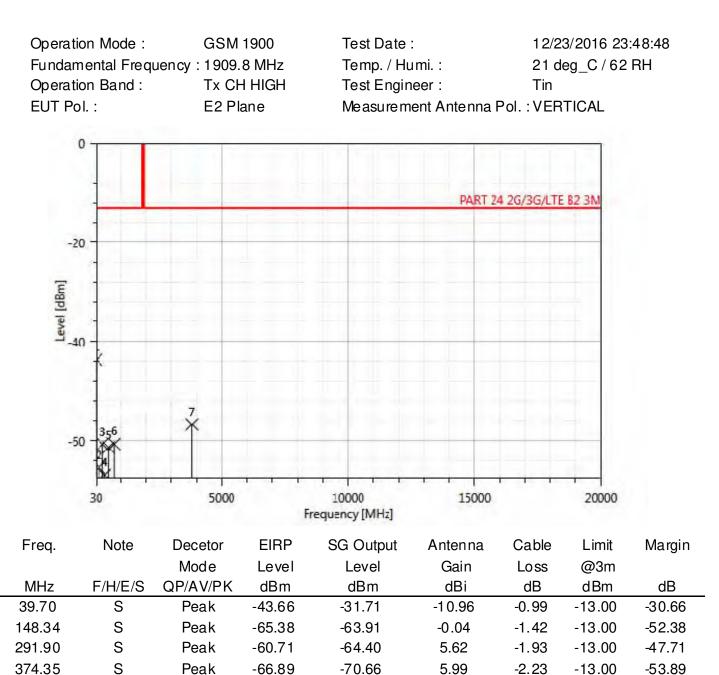
5.95

5.90

5.34

12.45





Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

-61.37

-60.69

-56.73

Peak

Peak

Peak

S

S

S

527.61

745.86

3819.60

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-64.75

-62.91

-62.54

5.86

5.32

12.47

-2.47

-3.10

-6.65

-13.00

-13.00

-13.00

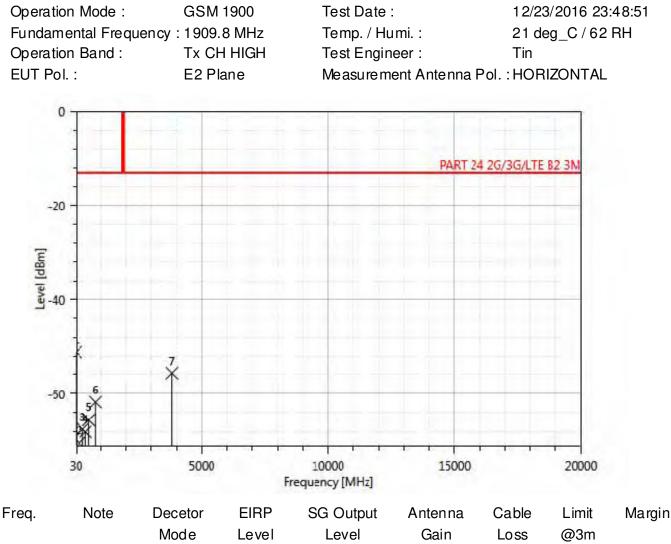
-48.37

-47.69

-43.73

S Taiwan I td No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號





	1109.	11010	Becotor	_	ou output	7 (11(0)11)(4	ousio	_	Margin	
			Mode	Level	Level	Gain	Loss	@3m		
_	MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB	
	31.94	S	Peak	-51.15	-38.03	-12.16	-0.96	-13.00	-38.15	_
	154.16	S	Peak	-70.42	-69.22	0.25	-1.45	-13.00	-57.42	
	293.84	S	Peak	-67.52	-71.23	5.65	-1.94	-13.00	-54.52	
	400.54	S	Peak	-68.08	-71.67	5.97	-2.38	-13.00	-55.08	
	527.61	S	Peak	-65.59	-68.97	5.86	-2.47	-13.00	-52.59	
	793.39	S	Peak	-61.80	-64.37	5.47	-2.90	-13.00	-48.80	
	3819.60	S	Peak	-55.69	-61.51	12.47	-6.65	-13.00	-42.69	

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Radiated Spurious Emission Measurement Result: HSDPA Band II Mode

Operation Band : EUT Pol. :		HSDPA B2 uency : 1852.4 MHz Tx CH LOW E2 Plane		Temp Test	Date : b. / Humi. : Engineer : surement A		12/23/2016 23:48:5 21 deg_C / 62 RH Tin ol. : VERTICAL	
0						PART 24 2	<u>G/3G/LTE B</u>	2 3M
-20 [wgp]	-							
Level [dBm]	- - -							
-50	356	×						
Frog	30 Noto	5000	Fre	10000 equency [M		15000	Cabla	20000

Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
39.70	S	Peak	-43.76	-31.81	-10.96	-0.99	-13.00	-30.76
148.34	S	Peak	-65.12	-63.65	-0.04	-1.42	-13.00	-52.12
294.81	S	Peak	-62.08	-65.80	5.67	-1.94	-13.00	-49.08
353.01	S	Peak	-66.59	-70.53	6.01	-2.07	-13.00	-53.59
527.61	S	Peak	-61.26	-64.65	5.86	-2.47	-13.00	-48.26
749.74	S	Peak	-61.02	-63.27	5.33	-3.08	-13.00	-48.02
3704.80	S	Peak	-55.07	-60.93	12.44	-6.58	-13.00	-42.07



526.64

793.39

3704.80

S

S

S

Fundar Operat	Operation Band : EUT Pol. :		idamental Frequency : 1852.4 MHz eration Band : Tx CH LOW		Temp. / I Test Eng	Test Date : Temp. / Humi. : Test Engineer : Measurement Antenna Pol.			12/23/2016 23:48:57 21 deg_C / 62 RH Tin . : HORIZONTAL		
	0				PA	RT 24 2G/3G/LT	E 82 3M				
-7	n -										
Level [dBm] A	0										
5	0 6	×									
	30 30	5000		10000 Frequency [MHz]	150	00	20000				
Freq.	Note	Decetor	EIRP	SG Output	Antenn	a Cable	Limit	Margin			
		Mode	Level	Level	Gain	Loss	@3m				
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB			
30.00	S	Peak	-51.87	-38.28	-12.63	-0.96	-13.00	-38.87			
159.98 279.29	S S	Peak Peak	-71.02 -67.64	-70.05 -71.35	0.51 5.58	-1.48 -1.87	-13.00 -13.00	-58.02 -54.64			
410.24	S	Peak	-68.04	-71.57	5.93	-2.40	-13.00	-55.04			

-66.86

-61.89

-55.74

Peak

Peak

Peak

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-70.26

-64.46

-61.60

5.86

5.47

12.44

-2.46

-2.90

-6.58

-13.00

-13.00

-13.00

-53.86

-48.89

-42.74



146.40

294.81

347.19

527.61

691.54

3760.00

S

S

S

S

S

S

Operation Mode : Fundamental Frequ Operation Band : EUT Pol. :		HSDP uency : 1880 Tx CH E2 Pla	MHz I MID		Test Date Temp. / H Test Engi Measuren	umi. :	21 d Tin	3/2016 23 eg_C / 62 TICAL	
						PART	24 2G/3G/LTE	82 3M	
Level [dBm]	20								
	50 - 25 50 - 25 50 - 25	×							
	30	5000	1 - 1		10000 ency [MHz]	15000	1- 1- 1-	20000	
Freq.	Note	Decetor	EIRP	S	G Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode QP/AV/PK	Level dBm		Level dBm	Gain dBi	Loss dB	@3m dBm	dB
41.64	S	Peak	-43.62		-31.94	-10.68	-1.00	-13.00	-30.62

-62.57

-62.09

-69.95

-64.49

-62.70

-64.62

-0.16

5.67

6.00

5.86

5.24

12.45

-1.42

-1.94

-2.02

-2.47

-2.83

-6.60

-13.00

-13.00

-13.00

-13.00

-13.00

-13.00

-51.15

-45.36

-52.97

-48.11

-47.29

-45.77

-64.15

-58.36

-65.97

-61.11

-60.29

-58.77

Peak

Peak

Peak

Peak

Peak

Peak

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744.89

3760.00

S

S

Fundam Operation EUT Po	Operation Mode : HSD Fundamental Frequency : 1880 Operation Band : Tx Cl EUT Pol. : E2 P		I MID	mi. : eer : ent Antenna I				
	-						=	
					PART 24	4 2G/3G/LTE	82.3M	
-20	0		-					
[mg	-			1-1-1-1			-	
Level [dBm] 4	o	<u></u>					_	
-51	1.	¥						
-0					+			
	<u>риц.</u> 30	5000	т т т F	10000 requency [MHz]	15000	i i i	20000	
Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
31.94	S	Peak	-50.95	-37.82	-12.16	-0.96	-13.00	-37.95
209.45	S	Peak	-70.65	-74.64	5.65	-1.67	-13.00	-57.65
239.52	S	Peak	-67.92	-71.61	5.43	-1.74	-13.00	-54.92
413.15	S	Peak	-67.56	-71.10	5.92	-2.38	-13.00	-54.56
510.15	S	Peak	-66.49	-70.10	5.95	-2.34	-13.00	-53.49

-62.25

-56.55

Peak

Peak

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-64.46

-62.41

-3.11

-6.60

-13.00

-13.00

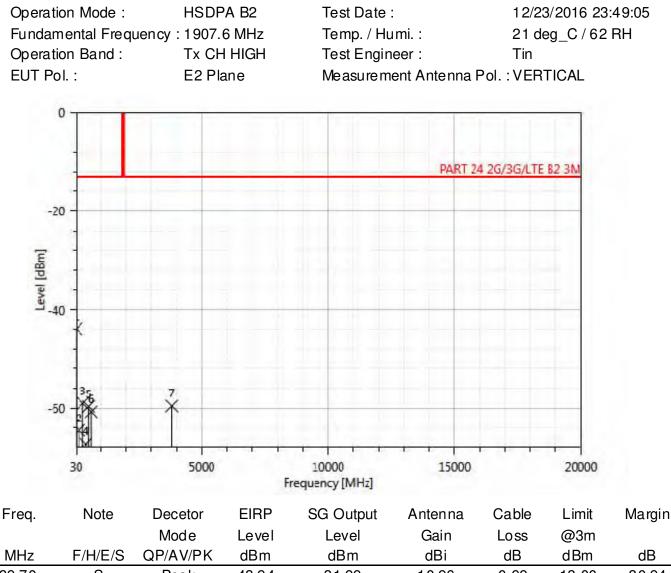
5.32

12.45

-49.25

-43.55





•								0
		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
39.70	S	Peak	-43.94	-31.99	-10.96	-0.99	-13.00	-30.94
148.34	S	Peak	-64.50	-63.03	-0.04	-1.42	-13.00	-51.50
296.75	S	Peak	-59.04	-62.80	5.71	-1.95	-13.00	-46.04
419.94	S	Peak	-67.25	-70.81	5.90	-2.33	-13.00	-54.25
527.61	S	Peak	-59.66	-63.05	5.86	-2.47	-13.00	-46.66
628.49	S	Peak	-60.74	-63.59	5.33	-2.47	-13.00	-47.74
3815.20	S	Peak	-59.56	-65.40	12.46	-6.63	-13.00	-46.56

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527.61

796.30

3815.20

S

S

S

Fundam	on Band :	HSDF uency : 1907. Tx CF E2 Pla	6 MHz I HIGH	Test Date Temp. / Hu Test Engir Measurem	umi. :	21 d Tin	3/2016 23 leg_C / 62 RIZONTAL	RH
(0	170			-		-	
				主主主	PART 2	4 2G/3G/LTI	E 82 3M	
-2(n -							
_	-							
Level [dBm]								
an-40	0							
	-							
-50	1 6	×						
	35							
			1 1 1	1 1 1 1	1.1	i i i		
	30	5000		10000 Frequency [MHz]	15000		20000	
Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
		Mode	Level	Level	Gain	Loss	@3m	
MHz 31.94	F/H/E/S S	QP/AV/PK Peak	dBm -52.68	dBm -39.55	dBi -12.16	dB -0.96	dBm -13.00	dB -39.68
154.16	S	Peak	-52.00	-39.55 -70.12	0.25	-0.96	-13.00	-39.00 -58.32
245.34	S	Peak	-67.03	-70.80	5.52	-1.45	-13.00	-54.03
384.05	S	Peak	-68.48	-72.17	5.98	-2.29	-13.00	-55.48

-66.04

-61.97

-58.09

Peak

Peak

Peak

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-69.43

-64.55

-63.92

5.86

5.48

12.46

-2.47

-2.90

-6.63

-13.00

-13.00

-13.00

-53.04

-48.97

-45.09



744.89

3424.80

S

S

Radiated Spurious Emission Measurement Result: HSDPA Band IV Mode

Fundan	on Band :	HSDF uency : 1712. Tx CF E2 PI	4 MHz H LOW	Test Date Temp. / Hu Test Engir Measurem	umi. :	21 d Tin	3/2016 23 leg_C / 62 RTICAL	
	0		-				+	
						PART 27 3G	(B4) 3M	
-2	0							
Level [dBm]								
P Lev	o - k							
	-	¥						
-5	0 6						_	
	198411, , 30	5000	<u>i i i</u>	10000 Frequency [MHz]	15000	i- i- i-	20000	
Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode QP/AV/PK	Level dBm	Level dBm	Gain dBi	Loss dB	@3m dBm	dB
39.70	S	Peak	-44.06	-32.11	-10.96	-0.99	-13.00	-31.06
148.34	S	Peak	-62.30	-60.84	-0.04	-1.42	-13.00	-49.30
256.01	S	Peak	-63.65	-67.62	5.73	-1.77	-13.00	-50.65
356.89	S	Peak	-63.03	-66.94	6.01	-2.10	-13.00	-50.03
527.61	S	Peak	-62.16	-65.54	5.86	-2.47	-13.00	-49.16

-60.38

-53.25

Peak

Peak

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-62.60

-59.29

-3.11

-6.23

-13.00

-13.00

5.32

12.27

-47.38

-40.25



507.24

799.21

3424.80

S

S

S

Fundar	ion Band :	HSDF uency : 1712. Tx CF E2 Pl	4 MHz H LOW	Te Te	est Date emp. / Hu est Engin leasurem	ımi. : ieer :	nna I	21 d Tin	3/2016 23 eg_C / 62 RIZONTAL	
								040T 07 00		
						-	-	PART 27 3G	(B4) 3M	
-2	20 -	_								
[mg										
Level [dBm]	10 -									
-4	50 6 X	×								
	X									
				- 1- 1	i 1	1 1	-			
	30	5000		100 Frequenc		1	5000		20000	
Freq.	Note	Decetor	EIRP	SG	Output	Anten	na	Cable	Limit	Margin
		Mode	Level	L	evel	Gaiı	n	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	c	Bm	dBi		dB	dBm	dB
31.94	S	Peak	-52.79		9.66	-12.1		-0.96	-13.00	-39.79
138.64	S	Peak	-71.50		9.57	-0.54		-1.39	-13.00	-58.50
245.34	S	Peak	-67.87		1.64	5.52		-1.75	-13.00	-54.87
403.45	S	Peak	-67.76	-7	1.32	5.96	;	-2.40	-13.00	-54.76

-66.22

-61.60

-54.17

Peak

Peak

Peak

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-69.85

-64.19

-60.21

5.97

5.49

12.27

-2.33

-2.90

-6.23

-13.00

-13.00

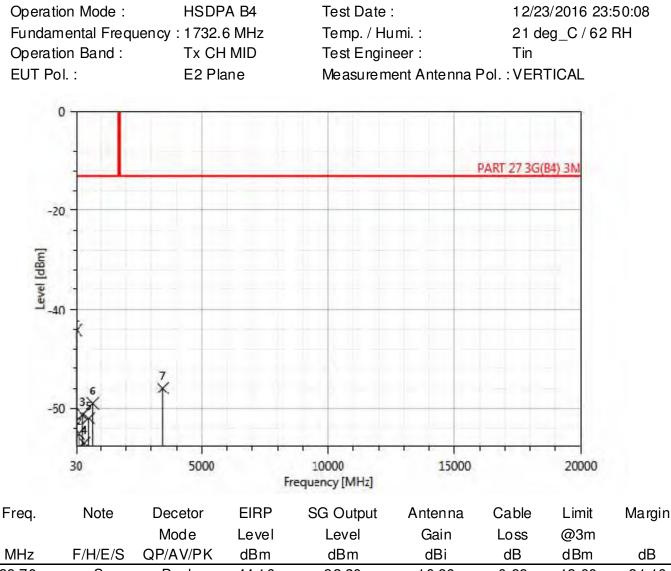
-13.00

-53.22

-48.60

-41.17





		Mode	Level	Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
39.70	S	Peak	-44.16	-32.20	-10.96	-0.99	-13.00	-31.16
148.34	S	Peak	-65.10	-63.64	-0.04	-1.42	-13.00	-52.10
293.84	S	Peak	-61.27	-64.98	5.65	-1.94	-13.00	-48.27
357.86	S	Peak	-66.96	-70.86	6.00	-2.11	-13.00	-53.96
527.61	S	Peak	-62.03	-65.41	5.86	-2.47	-13.00	-49.03
686.69	S	Peak	-59.02	-61.52	5.25	-2.74	-13.00	-46.02
3465.20	S	Peak	-55.92	-62.01	12.34	-6.25	-13.00	-42.92

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418.00

527.61

796.30

3465.20

S

S

S

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Fundar Operati EUT Po	on Band :	HSDP uency : 1732.0 Tx CH E2 Pla	6 MHz I MID	ך ך	Γest Date Γemp. / Ηι Γest Engir Measurem	umi. :	21 d Tin	3/2016 23 leg_C / 62 RIZONTAL	
						+ - 10			
					T I		PART 27 3G	(B4) 3M	
-7	0 -		-						
2	-							-	
Level [dBm] 쇼	1								
level 4	0								
	x	7						-	
		×							
0	0 5								
	槲								
	30	5000	i st		000 cy [MHz]	15000		20000	
Freq.	Note	Decetor	EIRP	SG	i Output	Antenna	Cable	Limit	Margin
		Mode	Level		Level	Gain	Loss	@3m	
MHz	F/H/E/S	QP/AV/PK	dBm		dBm	dBi	dB	dBm	dB
31.94	S	Peak	-51.94		38.81	-12.16	-0.96	-13.00	-38.94
165.80 241.46	S S	Peak Peak	-71.21 -67.65		70.65 71.37	0.94 5.46	-1.50 -1.74	-13.00 -13.00	-58.21 -54.65
241.40	0	i can	-07.00	-	1.07	5.40	-1./4	-10.00	-0-1.00

-67.70

-64.01

-62.14

-56.68

Peak

Peak

Peak

Peak

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-71.26

-67.40

-64.72

-62.77

5.91

5.86

5.48

12.34

-2.35

-2.47

-2.90

-6.25

-13.00

-13.00

-13.00

-13.00

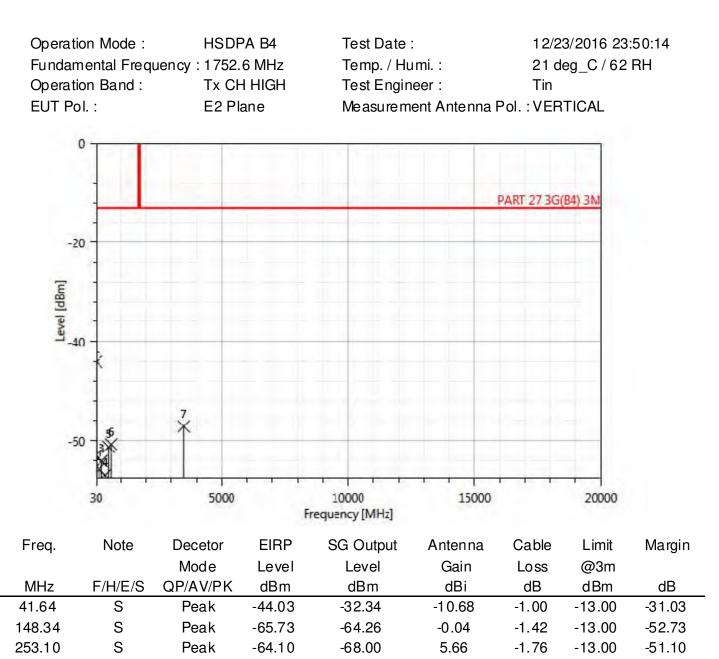
-54.70

-51.01

-49.14

-43.68





Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

-66.89

-61.27

-60.75

-57.14

Peak

Peak

Peak

Peak

S

S

S

S

398.60

527.61

629.46

3505.20

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-70.49

-64.65

-63.62

-63.08

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-2.37

-2.47

-2.47

-6.47

-13.00

-13.00

-13.00

-13.00

-53.89

-48.27

-47.75

-44.14

5.97

5.86

5.33

12.40



PART 27 3G(B4) 3M
30 5000 10000 15000 20000
Frequency [MHz]
Freq. Note Decetor EIRP SG Output Antenna Cable Limit Margin
Mode Level Level Gain Loss @3m
MHz F/H/E/S QP/AV/PK dBm dBm dBi dB dBm dB
31.94 S Peak -52.51 -39.38 -12.16 -0.96 -13.00 -39.51
154.16SPeak-72.10-70.890.25-1.45-13.00-59.10239.52SPeak-68.12-71.815.43-1.74-13.00-55.12
239.52SPeak-68.12-71.815.43-1.74-13.00-55.12410.24SPeak-67.58-71.115.93-2.40-13.00-54.58
527.61 S Peak -66.36 -69.75 5.86 -2.47 -13.00 -54.56
800.18 S Peak -62.19 -64.78 5.49 -2.90 -13.00 -49.19

-56.76

Peak

3505.20

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-62.70

12.40

-6.47

-13.00

-43.76