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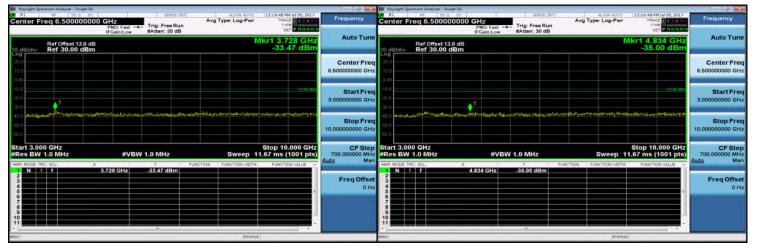
Out of Band Emission High Band5 5MHz QPSK 1 0 LowCH20425-826.5

Out of Band Emission High_Band5 10MHz_QPSK 1 0_LowCH20450-829

Keysight Spectrum Analyzer - Swept SA RL NF 50 G- DC Striktschitt Auton Auton 12-18-53 PM	N/75 2012	Keysight Spectrum Analyzer - Swept SA Key Spectrum Analyzer - Swept SA	2017
	Requency Frequency	Center Freq 6.500000000 GHz Avg Type: Log-Pwr TRACE D	
Ref Offset 13.8 dB Mkr1 4.90 dB/div Ref 30.00 dBm -34.4	60 GHz Auto Tune 18 dBm	Ref Offset 13.8 dB Mkr1 9.103 (10 d⊞/div Ref 30.00 dBm -34.37 d	Hz Auto Tur Bm
	Center Freq 6.500000000 GHz		Center Fn 6.500000000 Gl
	Start Freq 3.00000000 GHz	30.0	3.000000000 G
De landen human and the statement of	Stop Freq 10.000000000 GHz		Stop Fr 10.000000000 G
art 3.000 GHz Stop 10. Res BW 1.0 MHz Sweep 11.67 ms (1 R MOETRE SQL x Y FUNCTION FUNCTION FUNCTION	001 pts) 700.000000 MHz	Start 3.000 GHz #Res BW 1.0 MHz Stop 10.000 #Res BW 1.0 MHz Stop 10.000 #Res BW 1.0 MHz Stop 10.000 #Res BW 1.0 MHz WF MUSE FFF. SoL X Y Function Function Function	pts) 700.000000 M
1 N 1 f 4.960 GHz -34.48 dBm	Freq Offset 0 Hz		Freq Offs 0
		9 9 10 11 11	
I STATUS		M5Q ETATUS	

Out of Band Emission High_Band5 5MHz_QPSK 1 0_MidCH20525-836.5

Out of Band Emission High_Band5 10MHz_QPSK 1 0_MidCH20525-836.5



Out of Band Emission High_Band5 5MHz_QPSK 1 0_HighCH20625-846.5

Out of Band Emission High_Band5 10MHz_QPSK 1 0_HighCH20600-844

🕼 Keysight Spectrum Analyzer - Swept SA	1019	🐉 Kayaight Spectrum Analyzer - Swept SA	
RL IP 50 0 C SUBSEND ALDOAUTO 1220400 PH 34 05 01 C Conter Freq 5.500000000 GHz Figure 4 Trig: FreeRun Figure 30 dB Conter Freq 5.500000000 GHz Figure 4 Trig: FreeRun Figure 30 dB Conter Freq 6 Conter Freq 6	Frequency	0 RL #F 30.0 EC SHOELDN ALDRAUTO [221734FMU 62,2017 Center Freq 5.500000000 CH2 Avg Type: Log-Pwr Tree C FGain(Log #Atten: 0.0 B	Frequency
Ref Offset 13.8 dB	Auto Tune		Auto Tune
	Center Freq 6.500000000 GHz		Center Freq 6.500000000 GHz
A00	Start Freq 3.000000000 GHz	300	Start Freq 3.000000000 GHz
40 0 	Stop Freq 10.000000000 GHz	40 C 44049,000 / 2 ⁶ / 26 / 26 / 26 / 26 / 26 / 26 / 26 /	Stop Freq 10.000000000 GHz
Start 3.000 GHz Stop 10.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 11.67 ms (1001 pts) WRF, KODE TRC, SQL X Y PURCTON FUNCTON WOTH FUNCTON WOTH	CF Step 700.000000 MHz Auto Man	Start 3.000 GHz #Res BW 1.0 MHz Stop 10.000 GHz #VBW 1.0 MHz Stop 10.000 GHz Steep 11.67 ms (1001 pts) Iwir words TRC; SQL x Y Function worthing Function worthing Function worthing Function worthing Function worthing	CF Step 700.000000 MHz Auto Man
1 N 1 F 7.699 GHz -34.34 dBm 3 G	Freq Offset 0 Hz	N 1 f 3.714 GHz -34.08 dBm 2 - - - - 3 - - - - 4 - - - - 5 - - - - 6 - - - - 7 - - - - - 9 - - - - - - 10 -	Freq Offset 0 Hz
11 · · · · · · · · · · · · · · · · · ·		11	

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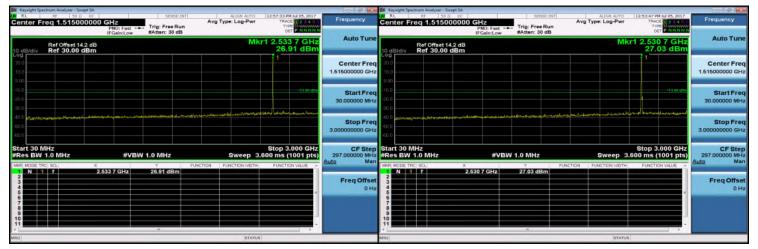
Out of Band Emission Low Band7 5MHz QPSK 1 0 LowCH20775-2502.5

Out of Band Emission Low Band7 10MHz QPSK 1 0 LowCH20800-2505

Keysight:Spectrum Analyzer - Swept SA			Keynight Spectrum Analyzer - Swept SA			
RL AP 30.0 DC SUPERANT ALDEAUTO enter Freq 1.515000000 GHZ PM0: Feet Trig: Free Run Free Run Free Run or Matter: 30 dB	12:55:55 PM Jul 05, 2017 TRACE 1 2 3 4 5 1 TYPE MULLION DET P NIN NIN N	Frequency	Center Freq 1.5150000	DI GHZ PND: Fast Trig: Free Run IFGainLow #Atten: 30 dB	Auton Auto 12-53:00 PM Jul 75, 2617 Avg Type: Log-Pwr TRACE 12-3 CT Type: Log-Pwr CTRACE 12-3 CT Type: Log-Pwr CTRACE 12-3 CT Type: Log-Pwr CTRACE 12-3 CT	Frequency
	(r1 2.501 0 GHz 27.04 dBm	Auto Tune	Ref Offset 14.2 d 10 dE/div Ref 30.00 dBn	8	Mkr1 2.501 0 GHz 27.23 dBm	Auto Tun
	-1	Center Freq 1.515000000 GHz	20.0 10.0 0.0			Center Fre 1.515000000 GH
	-13 03 dDr	Start Freq 30.000000 MHz	-10.0 -20.0 -30.0		-13.03 (24	Start Fre 30.000000 MH
n men en e	Netra Norshort Plananka sunor	Stop Freq 3.00000000 GHz	40 D 60 D 60 D	ىدىن ھەتلەردىيۇمۇرىلىرىغۇر قىزىغۇ قىزىكى تىلىغان بىراس بولىقەر قىزىكى بىرلىپ مەرىكى ھەتلەردىيۇر	and the second secon	Stop Fre 3.000000000 GH
tart 30 MHz Res BW 1.0 MHz #VBW 1.0 MHz Sweep 3	Stop 3.000 GHz 600 ms (1001 pts)		Start 30 MHz #Res BW 1.0 MHz	#VBW 1.0 MHz	Stop 3.000 GHz Sweep 3.600 ms (1001 pts)	CF Ste 297.000000 Mi Auto Mi
N 1 Control Contro <thcont< th=""> <thcont< th=""></thcont<></thcont<>	FORCEDAVAGE	Freq Offset 0 Hz	1 N 1 f	2.501 0 GHz 27.23 dBm	E TOR PORCEARING PORCEARING PORCEARING	Freq Offse 0 H
			7 8 9 9 10 11	··		
Q ETATU	5		Cel		STATUS	

Out of Band Emission Low_Band7 5MHz_QPSK 1 0_MidCH21100-2535

Out of Band Emission Low_Band7 10MHz_QPSK 1 0_MidCH21100-2535



Out of Band Emission Low_Band7 5MHz_QPSK 1 0_HighCH21425-2567.5

Out of Band Emission Low_Band7 10MHz_QPSK 1 0_HighCH21400-2565

🗱 Kaysight Spectrum Analyzer - Swept SA			010
Image: Non-State State And State State And State State And State State Center Freq 1.5150000000 GHz FM0:Fast	WE TRACE 22.45 Frequency	PNO: Fast Trig: FreeRun IFGsini.cow #Atten: 30 dB DET Dischart	Frequency
Ref Offset 14.2.dB 10 dB/div Ref 30.00 dBm	Mkr1 2.566 4 GHz 26.49 dBm	Tune Ref Offset 14 2 dB Mkr1 2.560 4 GHz 27.25 dBm 27.25 dBm	Auto Tune
	1 Center Fr 1.515000000 G		Center Freq 1.515000000 GHz
30 D	30.000000 M	MH2 30.0	Start Freq 30.000000 MHz
 0 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Stop Fr 3.000000000 G		Stop Freq 3.00000000 GHz
Start 30 MHz #VBW 1.0 MHz Sweep #Res BW 1.0 MHz #VBW 1.0 MHz Sweep war Mozer Factor i Function i Function i Function	3.600 ms (1001 pts) 297.000000 M	Step Start 30 MHz Stop 3,000 GHz Mitz #VEW 1.0 MHz Sweep 3,000 ms (1001 pts) Mitz #VEW 1.0 MHz Sweep 3,000 Ms (1001 pts) Mitz #VEW 1.0 MHz Sweep 3,000 Ms (1001 pts)	CF Step 297.000000 MHz Auto Man
1 N 1 f 2.566 4 GHz 26.49 dBm 3 - - - - - 4 - - - - - 5 - - - - - -	Freq Offs 0	riset 3 N 1 f 2.660 4 GHz 27.25 dBm 3 O Hz 6 O Hz 7 27.25 dBm 4 O Hz 7 27.25 dBm 7	Freq Offset 0 Hz
90M	ratus	MBQ STATUS	

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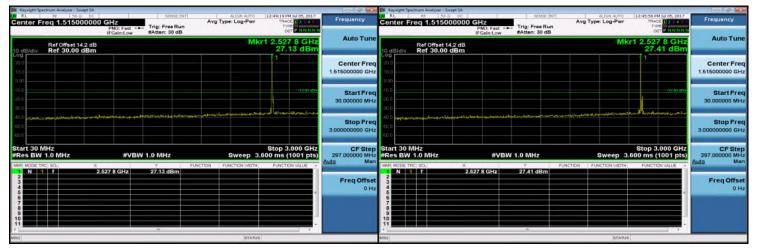
Out of Band Emission Low Band7 15MHz QPSK 1 0 LowCH20825-2507.5

Out of Band Emission Low Band7 20MHz QPSK 1 0 LowCH20850-2510

Kayaight Spectrum Analyzer - Swept SA		1014	🗱 Kayaight Spectrum Analyzer - Swept SA	0.0
Center Freq 1.5155000000 GHz PND: Fast	ALIGN AUTO 12:47:51 PM 3ul 05, 2617 Type: Log-Pwr TRACE 22:45 TYPE 12:45 DET 21:45	Frequency	W RL III SUD DC SUDE (SC) SUDE (SC) AUXIN AUTO 223-95111PM-01 (5):2017 Center Freq 1.515000000 GHz PHO: Feat -+ Trig: Free Run IFGaintor: 30 dB Avg Type: Log-Pwr Trig:	Frequency
Ref Offset 14.2 dB 10 dB/div Ref 30.00 dBm	Mkr1 2.501 0 GHz 26.87 dBm	Auto Tune	Ref Offset 142 dB Mkr1 2.501 0 GHz 10 dB/dly Ref 30.00 dBm 27.28 dBm	Auto Tun
eg 27.0 10.0		Center Freq 1.515000000 GHz		Center Fre
16.0	-13.03.404	Start Freq 30.000000 MHz	-100 000 	Start Free 30.000000 MH
200 μ 40 0 αγοριτηρια ματοποιτείρι ματοποιτείρι ματοποιτείρι ματοποίο τη ματοποίο τη προγραφική τη αγγοριάτη τη αγγορ 60 0 60 0	Annan Senand I State on the All State All of a state of the	Stop Freq 3.000000000 GHz	400 processing the processing of the second seco	Stop Fre
Start 30 MHz #Res BW 1.0 MHz #VBW 1.0 MHz wirk wolde the soul x y Punction	Stop 3.000 GHz Sweep 3.600 ms (1001 pts)	CF Step 297.000000 MHz Auto Man	Start 30 MHz Stop 3.000 GHz #Res BW 1.0 MHz \$Weep 3.600 ms (100 pt pt) WR MDE TO SUL X	CF Ste 297.000000 MH to Ma
1 N 1 7 2.601 0 GHz 26.87 dBm		Freq Offset 0 Hz	1 N 1 T 2.601 9 GHz 27 28 dBm	Freq Offse 0 H
1 9 9 10 11				
83	STATUS		MSC ETATUS	

Out of Band Emission Low_Band7 15MHz_QPSK 1 0_MidCH20175-1732.5

Out of Band Emission Low_Band7 20MHz_QPSK 1 0_MidCH21100-2535



Out of Band Emission Low_Band7 15MHz_QPSK 1 0_HighCH21375-2562.5

Out of Band Emission Low_Band7 20MHz_QPSK 1 0_HighCH21350-2560

M Kayaight Spectrum Analyzar - Swept SA	0.0	🐉 Kayaight Spactrum Analyzar - Swapt SA	1014
ALL AF SDG DC SUBJECT ALLON AUTO 122301.0PM3/ R5, 2017 Conter Freq 1.515000000 GHz PN0: Fest	Frequency	07 RL nr 5100 to 12-46-11 IM-10 62, 2017 Center Freq 1.515000000 GHz FN00 Fast → Trig: Free Run PN00 Fast → Trig: Free Run 0 Trig: Free Run	Frequency
If Gain Low #Atten: 30 dB Office 11 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	Auto Tune	Britishi Low #Atten: 30 dB Comparison Ref Offset 14.2 dB Mkr1 2,551 5 GHz [O dBJdiy Ref 30.00 dBm 27.59 dBm	Auto Tune
	Center Freq 1.515000000 GHz		Center Freq 1.515000000 GHz
900 00 00 00 00 00 00 00 00 00	Start Freq 30.000000 MHz	40.000 000 000 000 000 000 000 000 000 0	Start Freq 30.000000 MHz
200 0 2010 0	Stop Freq 3.000000000 GHz	ст. т	Stop Freq 3.000000000 GHz
Start 30 MHz Stop 3,000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 3,600 ms (1001 pts) was Robe Fire; Sol. x Y Punction	CF Step 297.000000 MHz Auto Man	Start 30 MHz Stop 3.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 3.000 GHz BR MDE TCS X Y Punctow Punctow Punctow	CF Step 297.000000 MHz Auto Man
N 1 f 2.567 5 GHz 26.53 dBm	Freq Offset 0 Hz	1 N 1 f 2.661 5 GHz 27.69 dBm 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Freq Offset 0 Hz
93 STATUS		MSQ ETATUS	

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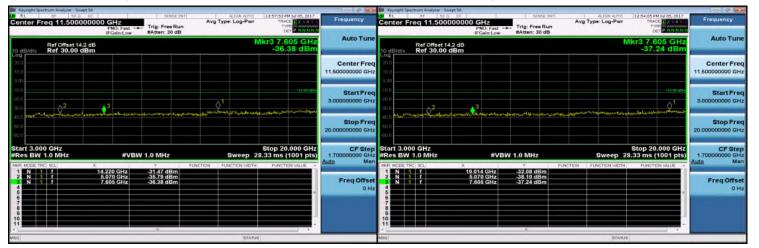
Out of Band Emission High_Band7 5MHz_QPSK 1 0_LowCH20775-2502.5

Out of Band Emission High_Band7 10MHz_QPSK 1 0_LowCH20800-2505

Keysight Spectrum Analyzer - Swept SA RL NP 50 G- DC Center Freq 11.5000000		ALIGN AUTO 12-36;56 PMJul 05, 2617 Avg Type: Log-Pwr 114A05 12-34 TVPE OCT PHILIPPE	Frequency	RevightSpectrum Analyzer - Swept RL ar 50 C Center Freq 11.50000	DC SENSE-INT	ALIGN ALITO 122-53(23 PM 3d R5, 2617 Avg Type: Log-Pwr TRACE 123 ct Type OCT	Frequency
Ref Offset 14.2 dB	3	Mkr3 7.508 GHz -36.06 dBm	Auto Tune	Ref Offset 14.2 10 dB/div Ref 30.00 dE	dB Sm	Mkr3 7.515 GHz -37.08 dBm	Auto Tune
20.0 10.0 13.0			Center Freq 11.500000000 GHz	20.0			Center Freq 11.500000000 GHz
-10.0 -20.0 -30.0	3	-13 07 654	Start Freq 3.000000000 GHz	30.0 02	4 ³	-13 03 d3+	Start Freq 3.000000000 GHz
40 0 4000	ander angelen forderen in forder och forder och forder angelen en generaliset og	يري المانية العارية العارية في المانية المانية المانية المانية المانية المانية المانية المانية المانية المانية المانية المانية	Stop Freq 20.000000000 GHz	40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	annen han het ander en einen eine gelen hat einen het en en einen het der het einen het e		Stop Freq 20.000000000 GHz
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	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
1 N 1 F 2 N 1 F 4 5 6	19.303 GHz -31.00 dBm 5.005 GHz -36.94 dBm 7.509 GHz -36.06 dBm		Freq Offset 0 Hz	1 N 1 F 2 N 1 F 1 N 1 F 4 6	17.926 GHz -31.18 dBm 5.010 GHz -37.72 dBm 7.515 GHz -37.08 dBm		Freq Offset 0 Hz
7 9 10				7 8 9 10 11			
MSG	n	STATUS		MSG	IT.	STATUS	

Out of Band Emission High_Band7 5MHz_QPSK 1 0_MidCH21100-2535

Out of Band Emission High_Band7 10MHz_QPSK 1 0_MidCH21100-2535



Out of Band Emission High_Band7 5MHz_QPSK 1 0_HighCH21425-2567.5

Out of Band Emission High_Band7 10MHz_QPSK 1 0_HighCH21400-2565

🚺 Kayaight Spectrum Analyzar - Swept SA		🐉 Kayaight Spectrum Analyzer - Swept SA	
RL #F \$9.0 CC SINGLAWN AUTO [00:0024 PH AM (5,2017) Contor Frag 11.500000000 GHz Find Fast →→ Trig: Free Run Find Fast →→ Trig: Free Run	Frequency	0 RL Mr 30.0 EC SHOLLSH ALDRAUTO 1235037HU (6,2017 Center Freq 11.5000000000 GH2 PRO Fest → Trig: Free Run Freideluce # Atter: 30 dB	Frequency
IFGalinLow #Atten: 30 dB Colspan="2">Colspan="2" IFGalinLow #Atten: 30 dB Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" <td< th=""><th>Auto Tune</th><th>IFGain/Low #Atten: Jo db</th><th>Auto Tune</th></td<>	Auto Tune	IFGain/Low #Atten: Jo db	Auto Tune
	Center Freq 11.500000000 GHz		Center Freq 11.500000000 GHz
	Start Freq 3.000000000 GHz		Start Freq 3.000000000 GHz
	Stop Freq 20.000000000 GHz	50 h	Stop Freq 20.000000000 GHz
Start 3.000 GHz Stop 2.000 GHz Stop 2.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) WIR MODE TRESCL x Y Punction Function Function	CF Step 1.700000000 GHz Auto Man	Star 1.000 GHz Stop 20.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Stweep 28.33 ms (1001 pts) MR MODE TRC SQL x Y PukChow Private PukChow Private	CF Step 1.700000000 GHz Auto Man
1 N 1 f 19014 GHz 31,08 dBm 2 N 1 f 6,136 GHz 35.64 dBm 4 F 7,703 GHz 35.64 dBm 6 F 7 F 7 F 7 F 7 F 7 F 7 F 7 F 7 F 7 F	Freq Offset 0 Hz	1 N 1 f 18368 GHz 3112 dBm N 1 f 5130 GHz 3729 dBm 4 f 5130 GHz 3729 dBm 6 7 7 8 9 9 9 9 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Freq Offset 0 Hz
ARG STATUS		N STATUS	

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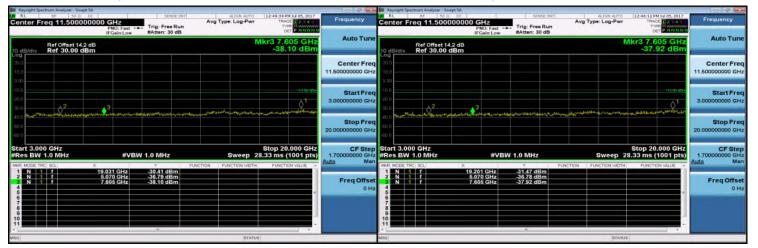
Out of Band Emission High_Band7 15MHz_QPSK 1 0_LowCH20825-2507.5

Out of Band Emission High_Band7 20MHz_QPSK 1 0_LowCH20850-2510

Keysight:Spectrum Analyzer - Swept SA		0.0	🛐 Kayaight Spectrum Analyzer - Swept SA		0.4
PL PP 50 0 DC States AV AUGU AU enter Freq 11.500000000 GHz Avg Type: Log-Pr PND: Fast Trig: Free Run FGainLow #Atten: 30 dB		Frequency		SENSE 3NT ALIGN AUTO 12-45/29 PM-3d R5, 2617 Avg Type: Log-Pwr TRACE 12 C41 TRACE 12 C41 Trig: Free Run TYPE TYPE 100 #Atter: 30 dB OCT Database	Frequency
Ref Offset 14.2 dB C dB/div Ref 30.00 dBm	Mkr3 7.523 GHz -36.71 dBm	Auto Tune	Ref Offset 142 dB 10 dB/dly Ref 30.00 dBm	Mkr3 7.530 GHz -36.61 dBm	Auto Tun
		Center Freq 11.50000000 GHz	20.0		Center Fre 11.500000000 GP
		Start Freq 3.00000000 GHz	-000 -300 -300	-1300 dBr	Start Fr 3.000000000 G
		Stop Freq 20.00000000 GHz		المريحية الم المريحية المريحية الم	Stop Fr 20.000000000 G
tart 3.000 GHz Res BW 1.0 MHz #VBW 1.0 MHz Sweep INF MODE TRCI SQL X Y FUNCTION INF AND TRCI SQL X	Stop 20.000 GHz 28.33 ms (1001 pts)	CF Step 1.70000000 GHz Auto Man	Start 3,000 GHz #Res BW 1.0 MHz #VBW 1	Stop 20.000 GHz 1.0 MHz Sweep 28.33 ms (1001 pts) Y EVICTOR EURCTORIVISTHI EURITED VALUE	CF Str 1.700000000 G Auto M
1 N 1 f 19.167 GHz -31.35 dBm 2 N 1 f 5.016 GHz -37.12 dBm 2 N 1 f 7.623 GHz -37.12 dBm 3 N 1 f 7.623 GHz -36.71 dBm 6 -36.71 dBm		Freq Offset 0 Hz	1 N 1 f 19.235 GHz 2 N 1 f 5.020 GHz	-31.39 dBm -36.04 dBm -36.01 dBm	Freq Offs 01
			6 7 8 9 9		
3	ATUS		Miss	n TATUS	

Out of Band Emission High_Band7 15MHz_QPSK 1 0_MidCH20175-1732.5

Out of Band Emission High_Band7 20MHz_QPSK 1 0_MidCH21100-2535



Out of Band Emission High_Band7 15MHz_QPSK 1 0_HighCH21375-2562.5

Out of Band Emission High_Band7 20MHz_QPSK 1 0_HighCH21350-2560

Ref Offset 14.2 dB MKR3 7.080 GHz 0 dB/div -37.16 dBm 0 dB/div -37.09 dBm </th <th>uency uto Tune</th>	uency uto Tune
Ref Offset 14.2 dB MR/S 7.685 GH2 Ref Offset 14.2 dB MR/S 7.680 GH2 10 dB/dy Ref 30.00 dBm -37.16 dBm -37.06 dBm -37.06 dBm 20 0 -37.16 dBm -37.16 dBm -37.06 dBm -37.06 dBm 10 dB/dy Ref 30.00 dBm -37.06 dBm -37.06 dBm -37.06 dBm -37.06 dBm 10 dB/dy Ref 30.00 dBm -37.06 dBm -37.0	ITO TUDO
10.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	ito rune
Start Freq 3.00000000 GHz 3.00000000 GHz 3.0000000 GHZ 3.0000000 GHZ 3.0000000 GHZ 3.0000000 GHZ 3.0000000 GHZ 3.0000000 GHZ 3.0000000 GHZ 3.00000000 GHZ 3.000000000 GHZ 3.00000000 GHZ 3.00000000 GHZ 3.00000000 GHZ 3.00000000 GHZ 3.0000000 GHZ 3.00000000 GHZ 3.00000000 GHZ 3.00000000 GHZ 3.00000000 GHZ 3.00000000 GHZ 3.00000000 GHZ 3.000000000 GHZ 3.000000000 GHZ 3.000000000 GHZ 3.0000000000 GHZ 3.000000000 GHZ 3.000000000 GHZ 3.000000000 GHZ 3.000000000 GHZ 3.000000000 GHZ 3.000000000 GHZ 3.000000000 GHZ 3.000000000000000000000000000000000000	nter Freq 10000 GHz
	tart Freq 00000 GHz
Stop Freq CO Stop Freq Stop F	top Freq 00000 GHz
#Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) 1,70000000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) 1,70000000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) 1,70000000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) 1,70000000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) 1,7000000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) 1,700000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) 1,700000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) 1,700000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) 1,700000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) Auto WM MODE TRC I SQL X Y Punction in Function walle Auto Auto <t< td=""><td>CF Step 00000 GHz Man</td></t<>	CF Step 00000 GHz Man
1 N 1 f 19.38 GHz -31.83 dBm -37.16 dBm -37.09 dBm	eq Offset 0 Hz

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Out of Band Emission Low Band38 5MHz QPSK 1 0 LowCH37775-2572.5

Out of Band Emission Low Band38 10MHz QPSK 1 0 LowCH37800-2575

Keyetig (section) Anders: Swep 5A Salver 3A Salver 3A <thsa< th=""><th>Frequency</th><th>B Karpent Spectra Mangare Swept SA B L P Star P S</th><th>Frequency</th></thsa<>	Frequency	B Karpent Spectra Mangare Swept SA B L P Star P S	Frequency
If Galan Low #Atten: 30 dB Certaining Ref Offset 14.2 dB Mkr1 2,569 4 GHz 30,569 4 GHz 0 dB/dlv Ref 30.00 dBm 25,49 dBm	Auto Tune	IF Galan.Low #Atten: 30 dB Mkr1 2,572 3 GHz Ref Offset 142 dB 25,67 dBm 26,67 dBm	Auto Tune
	Center Freq 1.515000000 GHz		Center Freq 1.515000000 GHz
00	Start Freq 30.000000 MHz	100	Start Freq 30.000000 MHz
n n 100 Berneysig stagssard opdar giland om hed as formular personal antip operations of the star spectra optimized best at provide from 00 -	Stop Freq 3.000000000 GHz	200 400 althumputation funder aller fan ter an	Stop Freq 3.000000000 GHz
tart 30 MHz Stop 3.000 GHz Res BW 1.0 MHz #VBW 1.0 MHz Sweep 3.600 ms (1001 pts) BH 0005 Mc Soul X Y Punction Induction Worth Function Value -	CF Step 297.000000 MHz Auto Man	Start 30 MHz Stop 3.000 GHz #Res BW 1.0 MHz \$Weep 3.600 ms (1001 pt) #R MDE TIC SQL X	CF Step 297.000000 MHz Auto Mar
N 1 f 2.569 4 GHz 25.49 dBm	Freq Offset 0 Hz	1 N 1 F 2.672 3 GHz 26.67 dBm	Freq Offsel 0 Hz
		7 9 9 10 10 11 11 11 11 11 11 11 11 11 11 11	
a status		NBC BITTUS	

Out of Band Emission Low_Band38 5MHz_QPSK 1 0_MidCH38000-2595

Out of Band Emission Low_Band38 10MHz_QPSK 1 0_MidCH38000-2595



Out of Band Emission Low_Band38 5MHz_QPSK 1 0_HighCH38225-2617.5

Out of Band Emission Low_Band38 10MHz_QPSK 1 0_HighCH38200-2615

🗱 Keysight:Spectrum Analyzer - Swept SA		0.0	🕼 Keysight Spectrum Analyzer - Sivept SA	10 m
Center Freq 1.515000000 GHz Avg Type: Log-Pwr TRA PNO: Fest -+- Trig: Free Run Trig	PM3ul 85, 2617	Frequency	RL NP SN C C SINCESHT ALDONAUTO 020402PH34 (5,217) CONTOR Froq 1.51150000000 GHz PN0: Feet	Frequency
Recorded 14.2 dB Mkr1 2.61		Auto Tune	If Gain Low #Atten: 30 dB Mkr1 2,610 9 G Hz 10 dB/dtv Ref 30.00 dBm 26.90 dBm	Auto Tune
	1	Center Freq 1.515000000 GHz		Center Freq 1.515000000 GHz
	-12 07 404	Start Freq 30.000000 MHz	406	Start Freq 30.000000 MHz
400 guagan tu tigan ha sharafan ya		Stop Freq 3.000000000 GHz	00 wygualada yn yn ywaran yn ywaran yn ywaran yn ywaran yn ywaran ywaran ywaran ywaran ywaran ywaran ywaran yw 60 60	Stop Freq 3.000000000 GHz
#Res BW 1.0 MHz #VBW 1.0 MHz Sweep 3,600 ms Iwir Mode TRC SQL X Y FUNCTION VIOLET FUNCTION	3.000 GHz (1001 pts)	CF Step 297.000000 MHz do Man	Start 30 MHz Stop 3.000 GHz #Res BW 1.0 MHz Sweep 3.600 ms (100 fps) will know for the Solid Start	CF Step 297.000000 MHz uto Man
1 N 1 f 2.616 9 GHz 25.03 dBm 3 4 5 5 5 5 4 5 5 5 5 5 7 7 7 5 5 5 5 9 9 1		Freq Offset 0 Hz	N 1 7 2.610 9 GHz 26.90 dBm 3 - - - - 4 - - - - 6 - - - - 7 - - - - 9 - - - - 10 - - - -	Freq Offset 0 Hz
MSG BTATUS			190 BTATUS	

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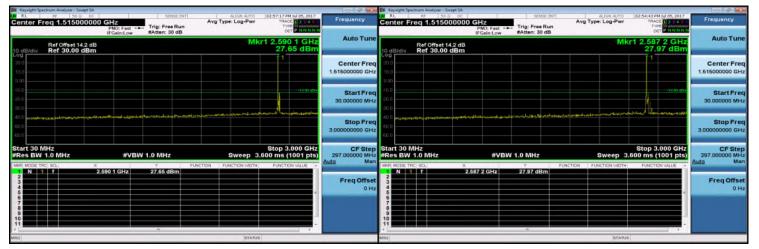
Out of Band Emission Low_Band38 15MHz_QPSK 1 0_LowCH37825-2577.5

Out of Band Emission Low Band38 20MHz QPSK 1 0 LowCH37850-2580

Keysight Spectrum Analyzer - Swept SA		📕 🕼 Keysight Spectrum Analyzer - Swept SA	
RL AP SID DC GHZ Conter Freq 1.515000000 GHZ PH0: Fast →→ Trig: Free Run IFFant Low IFFant Lo		Center Freq 1.515000000 GHz Avg Type: Log-Pwr PN0: Fest Trig: Free Run	TRACE D 34 5 Trequency
	Ikr1 2.572 3 GHz 26.82 dBm		26.88 dBm
	1.51500000 GH		Center Free 1.515000000 GH
100 200 300	Start Fre 30.000000 MH	2 20.0	Start Free 30.000000 MH
40 D 2000 440 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 60 D	Stop Fre 3.000000000 GH		Stop Fre 3.000000000 GH
Start 30 MHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep wire work find: sou x y pulicition information work	3.600 ms (1001 pts) 297.000000 MH	#Res BW 1.0 MHz #VBW 1.0 MHz Sweep 3.600	top 3.000 GHz ms (1001 pts) FUNCTION VALUE
1 N 1 f 2.672 3 GHz 26.82 dBm	Freq Offs 01	1 N 1 f 2.572 3 GHz 25.88 dBm 3 3 4 5 5 5 5 6 7 2 5 7 2 5 6 7 2 5 6 7 2 5 7 2 5 7 2 5 6 7 2 5 7 2 7 2	Freq Offse 0 H
7			
	rus	MSG STATUS	

Out of Band Emission Low_Band38 15MHz_QPSK 1 0_MidCH38000-2595

Out of Band Emission Low_Band38 20MHz_QPSK 1 0_MidCH38000-2595



Out of Band Emission Low_Band38 15MHz_QPSK 1 0_HighCH38175-2612.5

Out of Band Emission Low_Band38 20MHz_QPSK 1 0_HighCH38150-2610

🕱 Keysight Spectrum Analyzer - Swept SA		🚺 👪 Kayaght Speatnum Analyzar - Swept SA	1014
Center Freq 1.515000000 GHz Auto Auto PHO Fest Trig: Free Run FFed Low Auton Auto	TRACE 2 2 4 5 1 Frequency	Center Freq 1.515000000 GHz Freq Run Arro (2000 GHz) Freq Run Arro (Frequency
a Genteon a second	1 2.605 0 GHz Auto Tu 26.68 dBm		Auto Tune
100	Center Fr 1.515000000 G		Center Freq 1.515000000 GHz
160 360 360	30.000000 M	H2 300	Start Freq 30.000000 MHz
40 D	Stop Fr 3.00000000 G		Stop Freq 3.000000000 GHz
WIR MODE TRC SCL X Y FUNCTION FUNCTION WOTH	500 ms (1001 pts) 297.000000 M	MIR, MODE TRIC, SOL X Y FUNCTION FUNCTION WOTH FUNCTION VALUE >	CF Step 297.000000 MHz Auto Man
N 1 f 2.605 0 GHz 25.68 dBm	FreqOffs 0	N 1 F 2.602 0 GHz 27.08 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Freq Offset 0 Hz
11 // // // // // // // // // // // // /			

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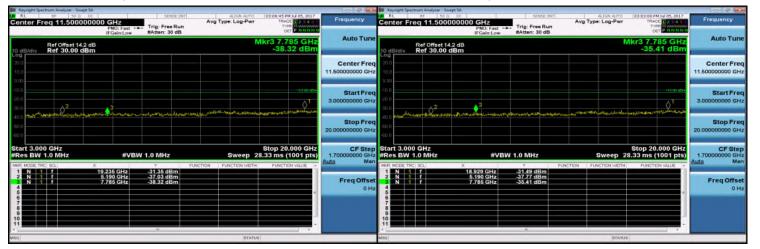
Out of Band Emission High_Band38 5MHz_QPSK 1 0_LowCH37775-2572.5

Out of Band Emission High Band38 10MHz QPSK 1 0 LowCH37800-2575

Keysight Spectrum Analyzer - Swept SA RL AP 58 G: DC I SINGE-SNT ALIGN AUTO 103-05-28 PM34 R5, 2017	0.4	Keysight Spectrum Analyzer - Swept SA Sec. Sec. Sec. Sec. Sec. Sec. Sec. S	0.4
RL P SID DC SIDE SIDE SIDE SIDE SIDE SIDE SIDE SIDE	Frequency	Center Freq 11.500000000 GHz PHO: Feet	Frequency
Ref Offset 14.2 dB Mkr3 7.718 GHz dB/div Ref 30.00 dBm -36.92 dBm	Auto Tune	Ref Offset 14.2 dB Mkr3 7.725 GHz 10 dB/div Ref 30.00 dBm -36.97 dBm	Auto Tu
	Center Freq 11.500000000 GHz		Center Fr 1.500000000 G
6	Start Freq 3.000000000 GHz		Start Fr 3.000000000 G
	Stop Freq 20.000000000 GHz		Stop Fi 0.000000000 G
art 3,000 GHz Stop 20,000 GHz es BW 1.0 MHz WVBW 1.0 MHz Sweep 28,33 ms (1001 pts) R MDE The SQL x Y Punctow Functor water Punctow With Punctor Water	CF Step 1.700000000 GHz Auto Man	Start 3.000 GHz Stop 20.000 GHz #Res BW 1.0 MHz Sweep 28.33 ms (1001 pts) BR MODE TES SL X	CF S
N 1 f 18.487 GHz -31.68 dBm N 1 f 5.145 GHz -36.86 dBm N 1 f 7.718 GHz -36.82 dBm	Freq Offset 0 Hz	1 N 3 f 14764GHz -3160dBm 2 N 3 f 6150GHz -3752dBm N 1 f 7.725GHz -3697dBm 6 6 6 7.725GHz -3697dBm	Freq Off 0
		9 9 10	
T STATUS		eran eran eran eran eran eran eran eran	

Out of Band Emission High_Band38 5MHz_QPSK 1 0_MidCH38000-2595

Out of Band Emission High_Band38 10MHz_QPSK 1 0_MidCH38000-2595



Out of Band Emission High_Band38 5MHz_QPSK 1 0_HighCH38225-2617.5

Out of Band Emission High_Band38 10MHz_QPSK 1 0_HighCH38200-2615

Kopight Spectrum Analyzer - Swept SA Set Set Set Set Set Set Set Set Set	0.0	🐉 Kaysight Spectrum Analyzar - Swept SA	014
MI III MI SD D C State 3NT ALDA AUTO DB PATHOL PSATT Center Freq 11.500000000 GHz Frequencies Frequencies Avg Type: Log-Pwr Treat 23.45 Frequencies Frequencies Trig: Free Run Avg Type: Log-Pwr Treat 23.45 Frequencies Frequencies 30.85 Trig: Free Run Avg Type: Log-Pwr Treat 23.45	Frequency	0 RL MP 59.0 CC SINCE MILE ALD	Frequency
Ref Offset 142 dB Mkr3 7.853 GHz	Auto Tune	Ref Diffset 142 dB Mkr3 7.845 GHz	Auto Tune
	Center Freq 11.500000000 GHz		Center Freq 11.50000000 GHz
100	Start Freq 3.000000000 GHz	$\frac{300}{300}$ \wedge^2 \wedge^3	Start Freq 3.000000000 GHz
400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stop Freq 20.000000000 GHz	(T.)	Stop Freq 20.000000000 GHz
Start 3.000 CHz Stop 20.000 CHz Stop 20.000 CHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) BR MODE TRC SQL X Y Punction Punction Punction	CF Step 1.700000000 GHz Auto Man	Start 3.000 CHz Stop 20.000 CHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) MR MODE TR< SQL	CF Step 1.700000000 GHz Auto Man
1 N 1 f 19235 GHz -31,13 dBm 2 N 1 f 6235 GHz -38,11 dBm 4 f 7,853 GHz -38,11 dBm 6 G 6 7	Freq Offset 0 Hz	1 N 1 f 19065 GHz 31.34 dBm 2 N 1 f 5.230 GHz 37.04 Bm 4 f 7.146 GHz 37.04 Bm 5 F	Freq Offset 0 Hz
MBG STATUS		MBQ STATUS	

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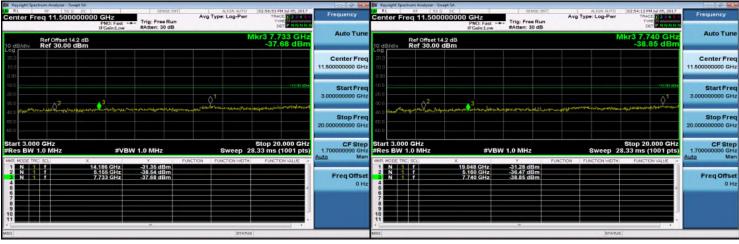
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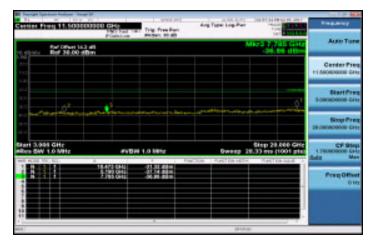
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Out of Band Emission High_Band38 15MHz_QPSK 1 0_LowCH37825-2577.5

Out of Band Emission High Band38 20MHz QPSK 1 0 LowCH37850-2580

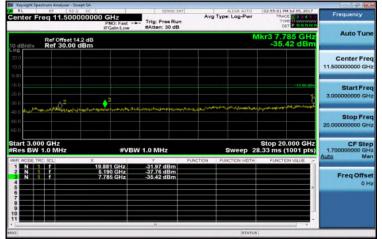


Out of Band Emission High_Band38 15MHz_QPSK 1 0_MidCH38000-2595

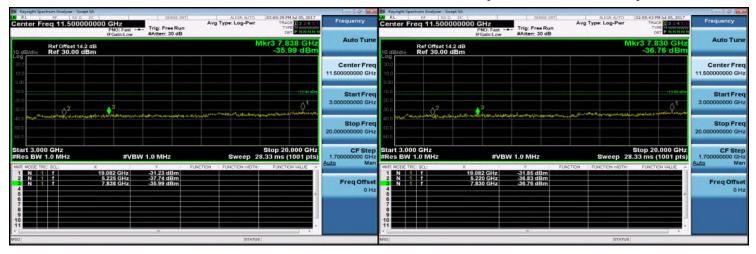


Out of Band Emission High_Band38 15MHz_QPSK 1 0_HighCH38175-2612.5

Out of Band Emission High_Band38 20MHz_QPSK 1 0_MidCH38000-2595



Out of Band Emission High_Band38 20MHz_QPSK 1 0_HighCH38150-2610



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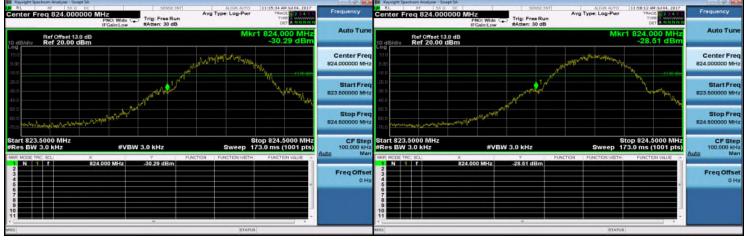
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Band Edge_GSM_850MHz_LowCH128-824.2



Band Edge_GSM_850MHz_HighCH251-848.8

Band Edge GPRS 850MHz HighCH251-848.8

Band Edge_GPRS_850MHz_LowCH128-824.2



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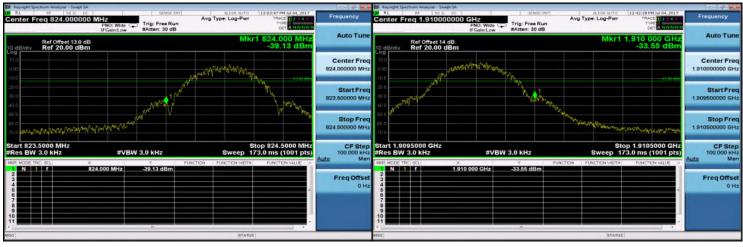
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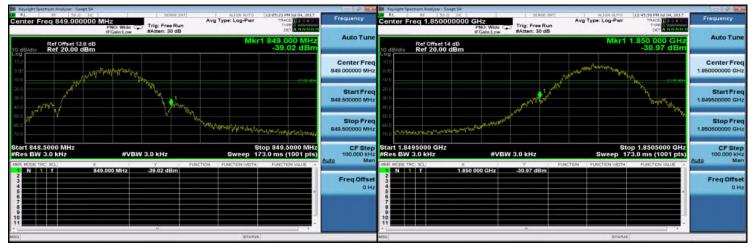
Band Edge EDGE 850MHz LowCH128-824.2

Band Edge_GSM_1900MHz_HighCH810-1909.8



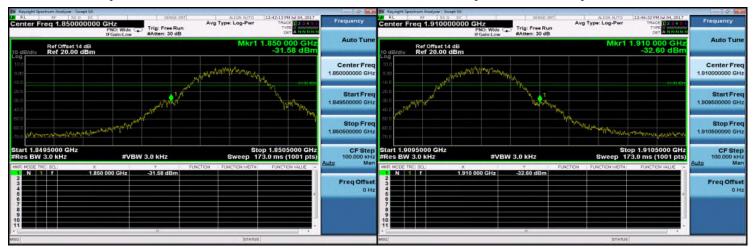
Band Edge_EDGE_850MHz_HighCH251-848.8

Band Edge_GPRS_1900MHz_LowCH512-1850.2



Band Edge_GSM_1900MHz_LowCH512-1850.2

Band Edge_GPRS_1900MHz_HighCH810-1909.8



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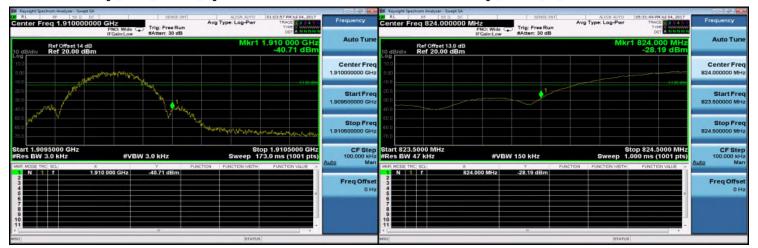
Band Edge EDGE 1900MHz LowCH512-1850.2

Band Edge_WCDMA_B2_HighCH9538-1907.6



Band Edge_EDGE_1900MHz_HighCH810-1909.8

Band Edge_WCDMA_B5_LowCH4132-826.4



Band Edge_WCDMA_B2_LowCH9262-1852.4

Band Edge_WCDMA_B5_HighCH4233-846.6

👪 Keysight Spectrum Analyzer - Swept SA			04	🗱 Keynight Spectrum Analyzer - Swept SA		surgery and the second second second	0.0
Center Freq 1.850000000 GHz PND: Wide C	Avg Type: Log-Pwr	03:08:46 PM 3ul 04, 2017 TRACE 1 2 3 4 5 TYPE A WARMON DET A HILLING	Frequency	Center Freq 849.000000 MHz	SENSE:INT AUGH Avg Type: Log Trig: Free Run	-Pwr TRACE	Frequency
IFGainLow #Atten: 30 dl IFGainLow #Atten: 30 dl 10 dB/div Ref 20.00 dBm		1.850 000 GHz -26.07 dBm	Auto Tune	IFGein:Low Ref Offset 13.8 dB 10 dB/div Ref 20.00 dBm	#Atten: 30 dB	Mkr1 849.000 MHz -25.59 dBm	Auto Tune
			Center Freq 1.850000000 GHz				Center Freq 849.000000 MHz
			Start Freq 1.849500000 GHz	20.0 30.0 40.0			Start Freq 848.500000 MHz
60 D 60 D -70 D			Stop Freq 1.850500000 GHz	60 0 60 0 -70 D			Stop Freq 849.500000 MHz
Start 1.8495000 GHz #Res BW 47 kHz #VBW 150 kHz twik MODE TRE; SOL x Y	Sweep 1.	op 1.8505000 GHz .000 ms (1001 pts) FUNCTION VALUE	CF Step 100.000 kHz Auto Man		Y FUNCTION FUNCTION	Stop 849.5000 MHz ep 1.000 ms (1001 pts)	CF Step 100.000 kHz Auto Man
1 N 1 f 1.850 000 GHz26.07 dBm			Freq Offset 0 Hz	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-25.69 dBm		Freq Offset 0 Hz
7 8 9 10 11				7 8 9 10 11	17		
Deter Contract of the Contract	STATUS			M93		STATUS	

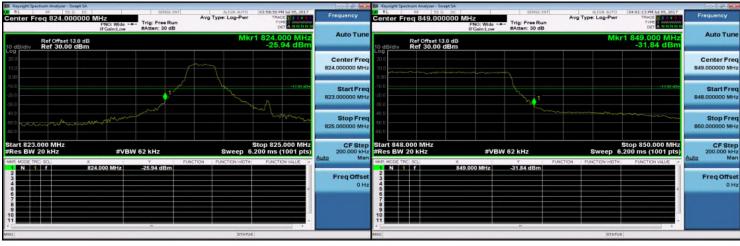
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Band Edge Band5 1.4MHz QPSK 1 0 LowCH20407-824.7

Band Edge_Band5 1.4MHz_QPSK 6 0_HighCH20643-848.3



Band Edge_Band5 1.4MHz_QPSK 1 5_HighCH20643-848.3

Band Edge_Band5 3MHz_QPSK 1 0_LowCH20415-825.5



Band Edge_Band5 1.4MHz_QPSK 6 0_LowCH20407-824.7

Band Edge_Band5 3MHz_QPSK 1 14_HighCH20635-847.5



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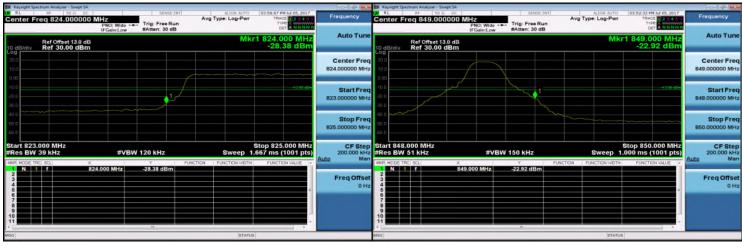
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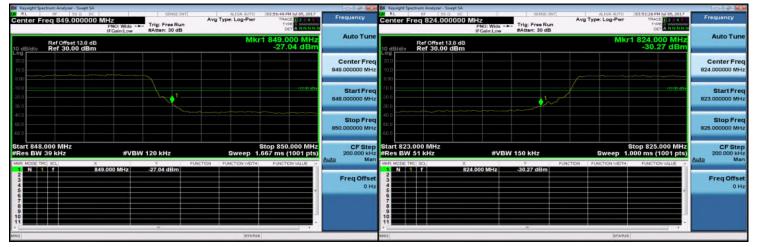
Band Edge_Band5 3MHz_QPSK 15 0 LowCH20415-825.5

Band Edge Band5 5MHz QPSK 1 24 HighCH20625-846.5



Band Edge_Band5 3MHz_QPSK 15 0_HighCH20635-847.5

Band Edge_Band5 5MHz_QPSK 25 0_LowCH20425-826.5



Band Edge_Band5 5MHz_QPSK 1 0_LowCH20425-826.5

Band Edge_Band5 5MHz_QPSK 25 0_HighCH20625-846.5

🗱 Keynight Spectrum Analyzer - Swept SA	0.0	🐹 Kayaight Speatrum Analyzar - Swept SA	0.0
W R.L IP State Strift Allow Autro Galaxiest Private (b) and the context Freq 824,000000 MHz Avg Type: Log-Pwr Trace (b) and the context Part (c) and the context part (c) and the	Frequency	RL RF 39.0 DC SUBSEINT ALIGN AUTO 0333149 PM 34 05,2017 Center Freq 849,000000 MHz Freq Right Auto 102,014 00 00,2017 PROLVATE Trigs Free Run	Frequency
IF Galin Low #Atten: 30 dB 001 Mkr1 824,000 MH; 10 dB/dly Ref 30.00 dBm -24.07 dBm -24.07 dBm	Auto Tune	Ref Offset 13.6 dB Mkr1 439.000 MHz 10 dB/diy Ref Offset 13.6 dB	Auto Tune
	Center Freq 824.000000 MHz		Center Freq 849.000000 MHz
100	Start Freq 823.000000 MHz	-100 0	Start Freq 848.000000 MHz
	Stop Freq 825.000000 MHz		Stop Freq 850.000000 MHz
Start 823.000 MHz Stop 825.000 MH #Res BW 51 kHz #VBW 150 kHz Sweep 1.000 ms (1001 pts WR MODE TRC SQL X Y Punction worth Function worth	CF Step 200.000 kHz Auto Man	MRP, MDDE TRIC SOL X Y FUNCTION WETH FUNCTION VALUE >	CF Step 200.000 kHz Auto Man
I I I I I III IIII IIIII IIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Freq Offset 0 Hz	N 1 f 849.000 MHz -29.82 dBm	Freq Offset 0 Hz

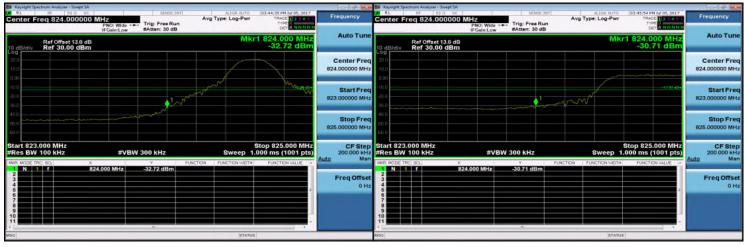
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Band Edge_Band5 10MHz_QPSK 1 0_LowCH20450-829

Band Edge_Band5 10MHz_QPSK 50 0_LowCH20450-829



Band Edge_Band5 10MHz_QPSK 1 49_HighCH20600-844

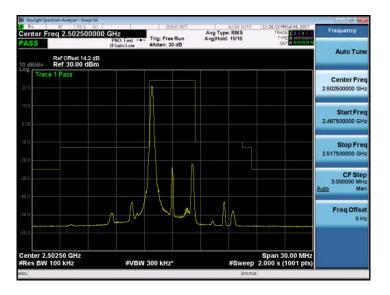
Band Edge_Band5 10MHz_QPSK 50 0_HighCH20600-844

🗱 Kayaight Spectrum Analyzer - Swept SA	0.0		0
P B B D DC SERVECTORY ALIDE AUTO 02349:16 PH/Ju 69,9617 Center Freq 849.000000 MHz Trig: Free Run Avg Type: Log-Pwr Trig: Free Run Trig: Free Run	Frequency	0 RL # 58.0 DC SUBSEAM ALTO 41.00 AUTO 40.4616 MM (0.5.017 Contor Frog 849,0000000 MHz PNO; Wide → Trig: Free Run PNO; Wide → Trig: Free Run Contor Frog 849,000000 MHz	Frequency
If Galatizew #Atten: 30 dB Mkr18 49,000 MHz Ref Offset 138 dB Mkr18 49,000 MHz 10 dB/dty Ref 30.00 dBm -32,73 dBm	Auto Tune	In GamiLow #Model: Jo up	Auto Tune
	Center Freq 849.000000 MHz		Center Freq 849.000000 MHz
100	Start Freq 848.000000 MHz	1300	Start Freq 848.000000 MHz
	Stop Freq 850.000000 MHz		Stop Freq 850.000000 MHz
Start 848.000 MHz Stop 850.000 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.000 ms (1001 pts) MR MDE TRC SQL X Y PUNCTION INDTH FUNCTION INDTH N 1 f B49.000 MHz -32.73 dBm FUNCTION INDTH FUNCTION INDTH	CF Step 200.000 kHz Auto Man	WHR MODE TRC SOL X Y FUNCTION WOTH FUNCTION VALUE -	CF Step 200.000 kHz Auto Man
1 N 1 f B49.000 MHz -32.73 dBm 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Freq Offset 0 Hz		Freq Offset 0 Hz

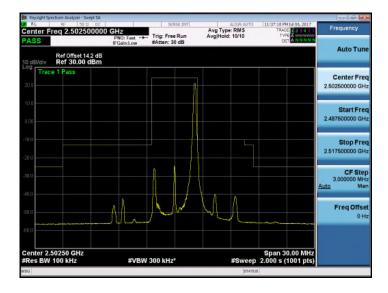
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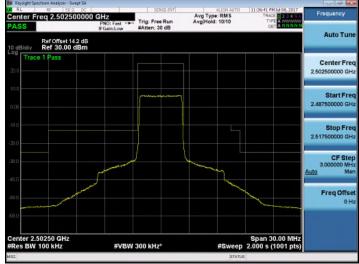


Emission Mask_Band 7_5M_QPSK_LOW_RB1,0

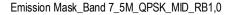


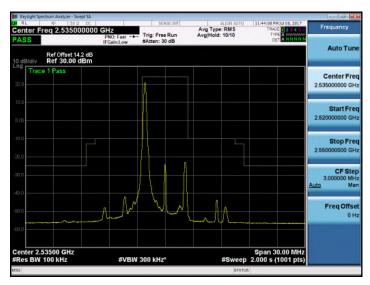
Emission Mask_Band 7_5M_QPSK_LOW_RB1,24





Emission Mask_Band 7_5M_QPSK_LOW_RB25,0



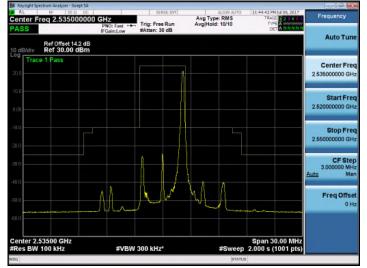


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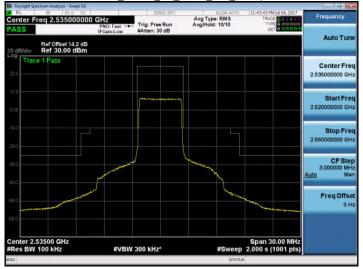


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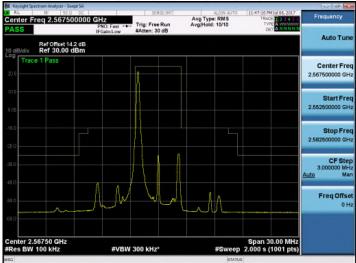
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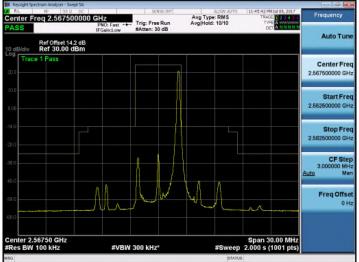
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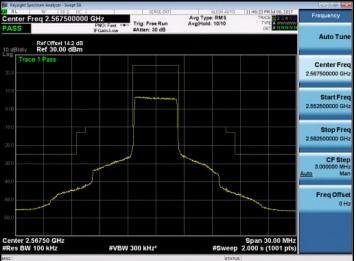
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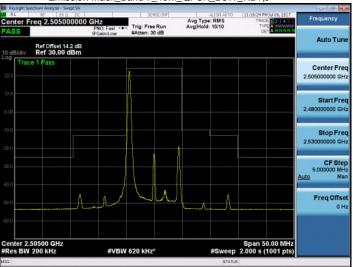
Emission Mask_Band 7_5M_QPSK_HIGH_RB1,24



Emission Mask_Band 7_5M_QPSK_HIGH_RB25,0







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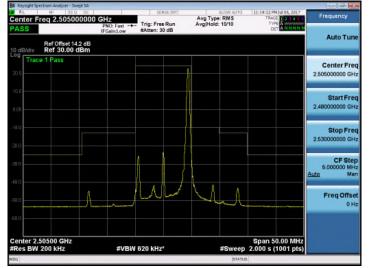
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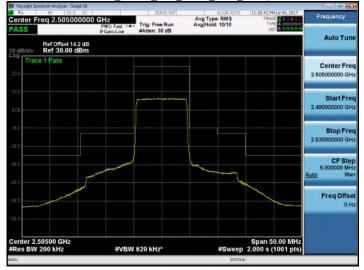


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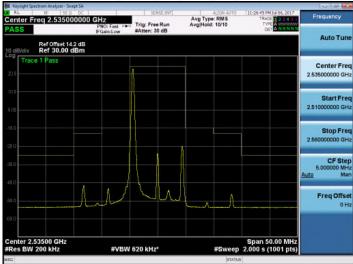
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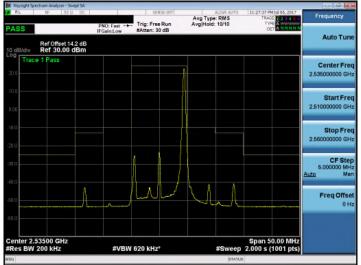
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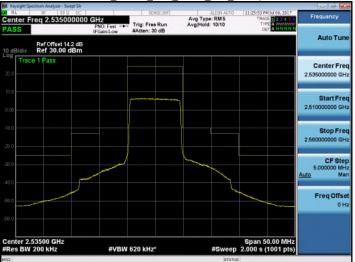
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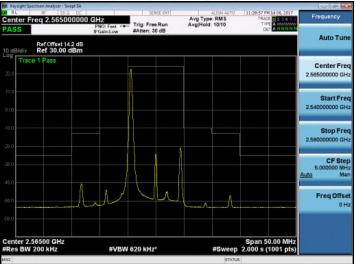
Emission Mask_Band 7_10M_QPSK_MID_RB1,49



Emission Mask Band 7_10M_QPSK_MID_RB50,0







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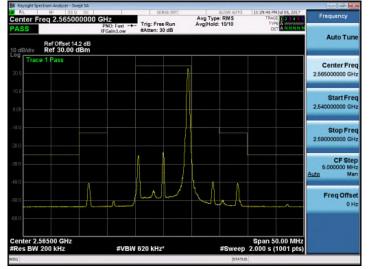
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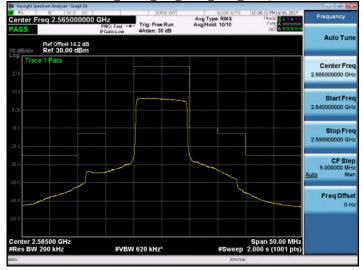


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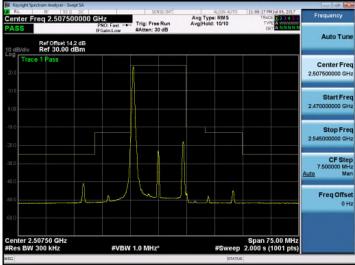
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Emission Mask_Band 7_10M_QPSK_HIGH_RB50,0



Emission Mask_Band 7_15M_QPSK_LOW_RB1,0



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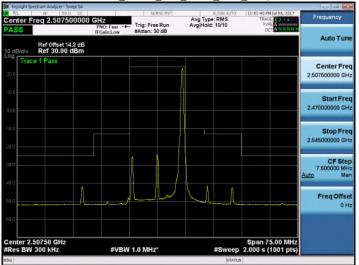
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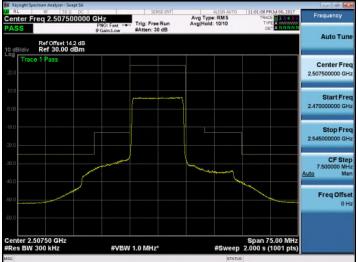
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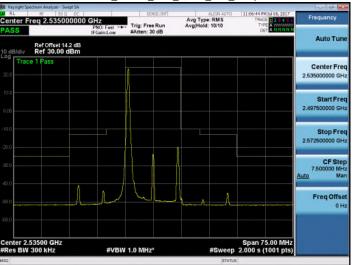
Emission Mask Band 7 15M QPSK LOW RB1,74



Emission Mask Band 7 15M QPSK LOW RB75,0



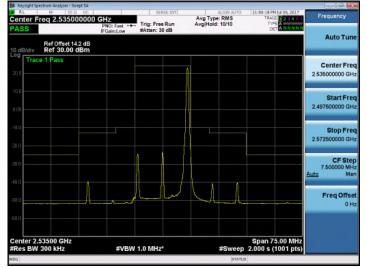
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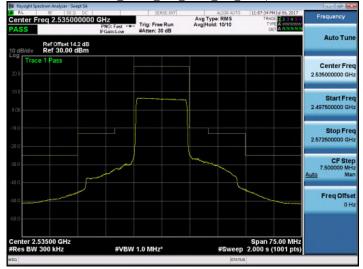


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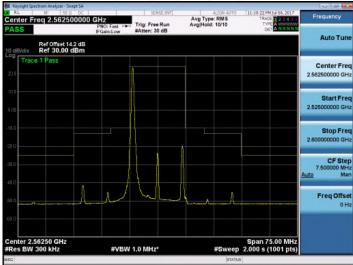
Emission Mask Band 7_15M QPSK MID RB1,74



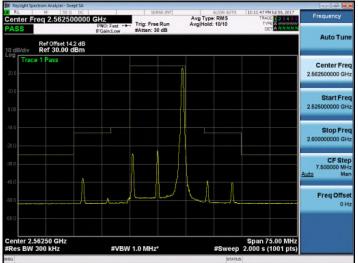
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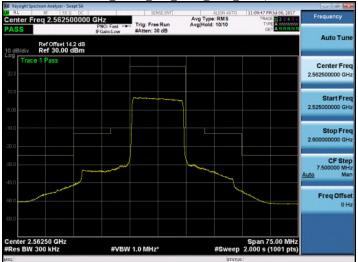
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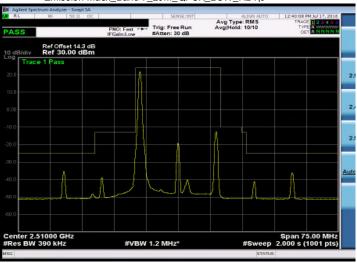
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Emission Mask_Band 7_15M_QPSK_HIGH_RB75,0



Emission Mask Band 7 20M QPSK LOW RB1.0



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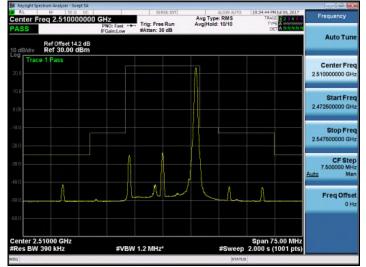
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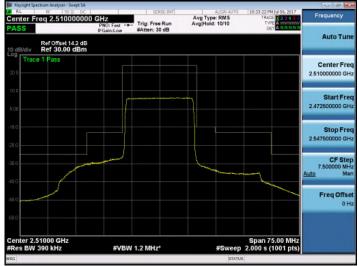


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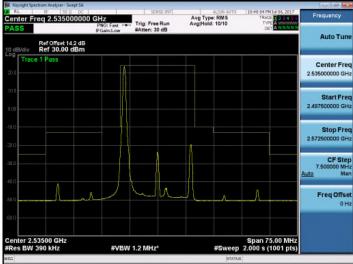
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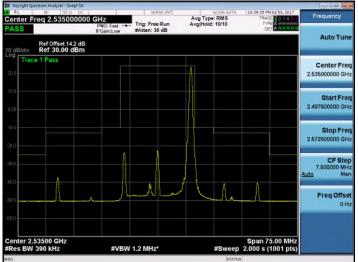
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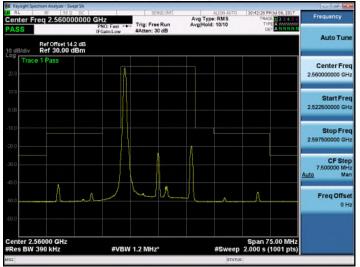


Emission Mask Band 7 20M QPSK MID RB1,99



Emission Mask Band 7 20M QPSK MID RB100,0





Emission Mask_Band 7_20M_QPSK_HIGH_RB1,0

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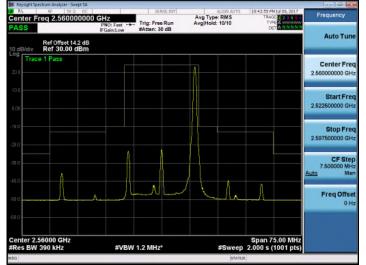
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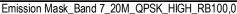
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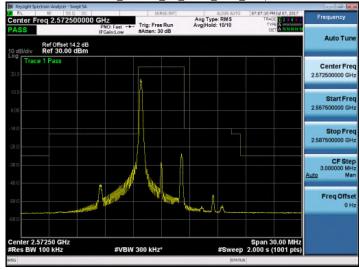
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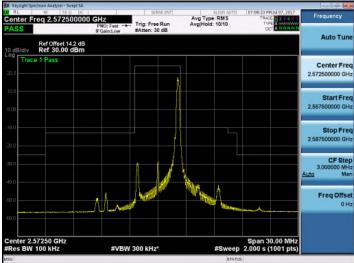




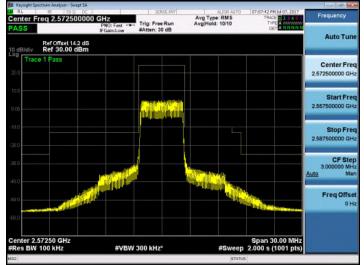
Emission Mask Band 38 5M QPSK LOW RB1,0



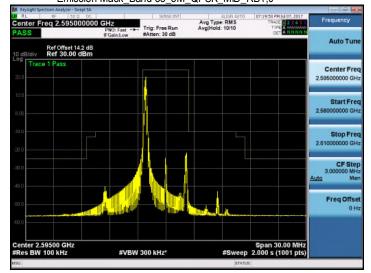
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Emission Mask_Band 38_5M_QPSK_LOW_RB25,0



Emission Mask Band 38 5M QPSK MID RB1,0



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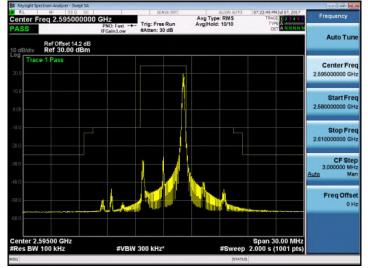
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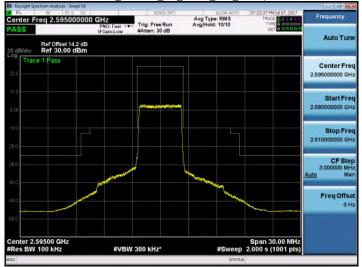


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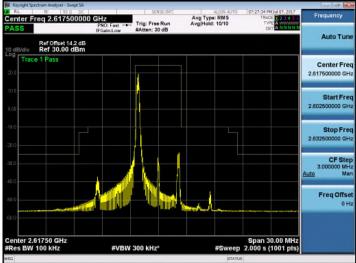
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Emission Mask Band 38 5M QPSK MID RB25,0



Emission Mask_Band 38_5M_QPSK_HIGH_RB1,0



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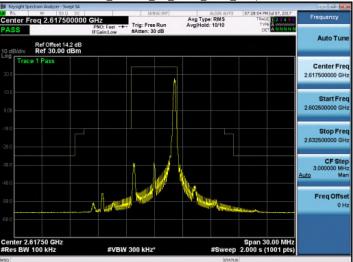
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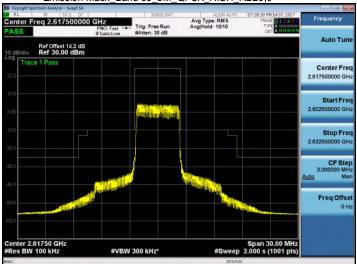
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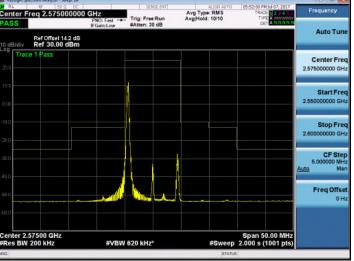
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Emission Mask Band 38 5M QPSK HIGH RB25,0



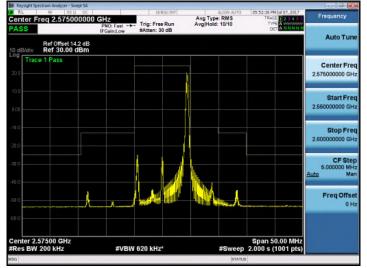
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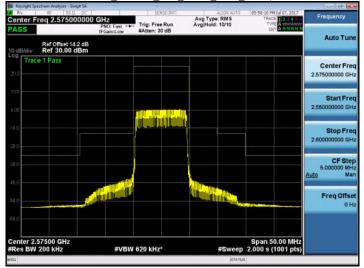


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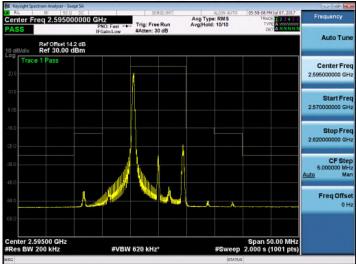
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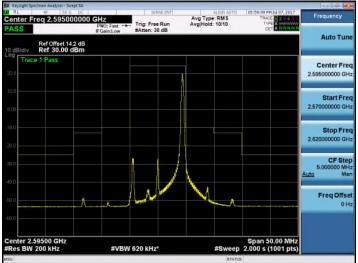
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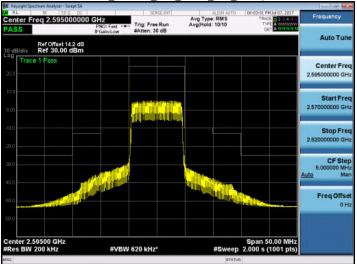
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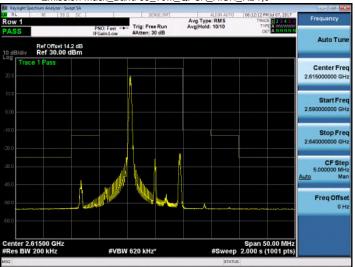
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Emission Mask Band 38 10M QPSK MID RB50,0







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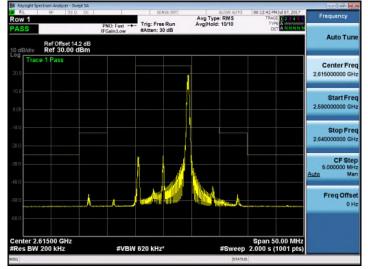
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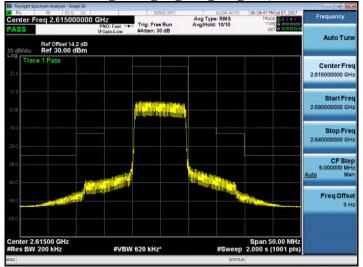


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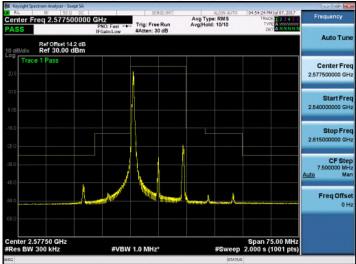
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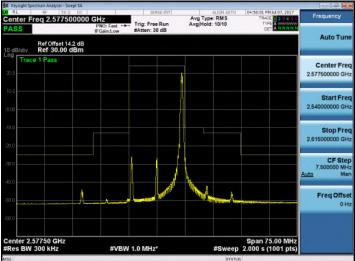
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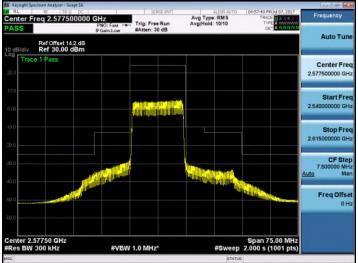
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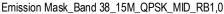


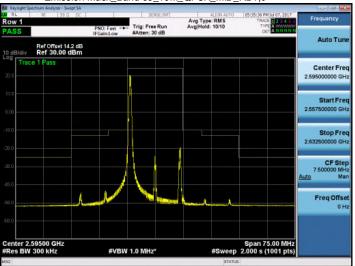
Emission Mask Band 38 15M QPSK LOW RB1,74



Emission Mask Band 38 15M QPSK LOW RB75,0







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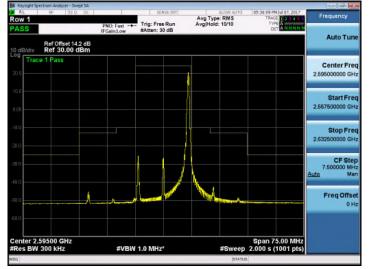
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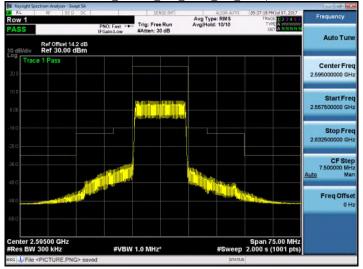


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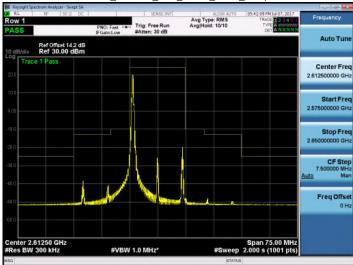
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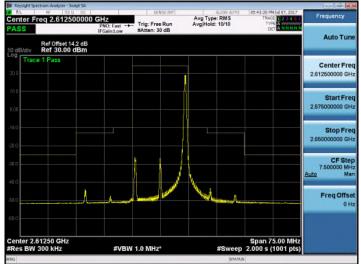
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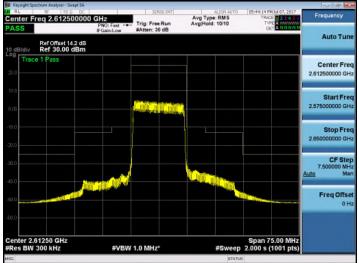
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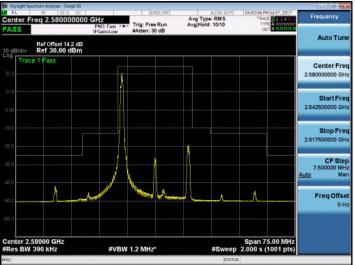


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Emission Mask Band 38_15M QPSK HIGH RB75,0





Emission Mask_Band 38_20M_QPSK_LOW_RB1,0

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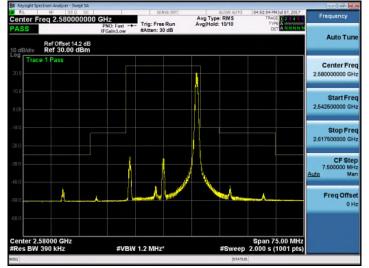
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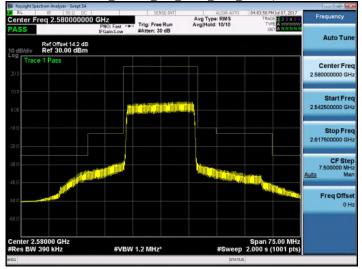


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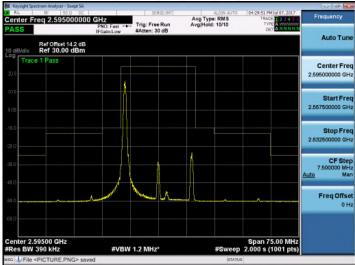
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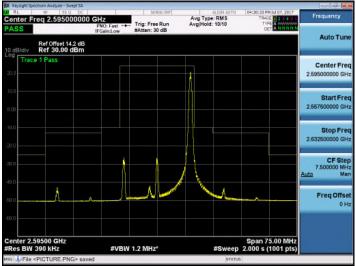
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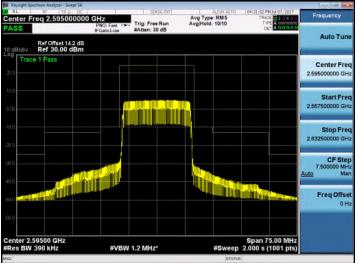
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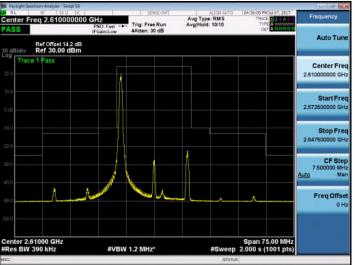
Emission Mask Band 38 20M QPSK MID RB1,99



Emission Mask Band 38 20M QPSK MID RB100,0



Emission Mask Band 38 20M QPSK HIGH RB1,0



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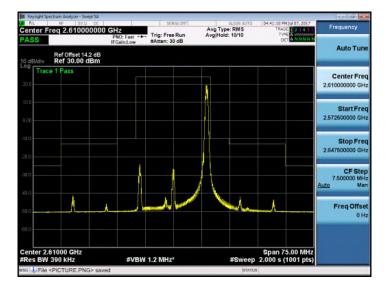
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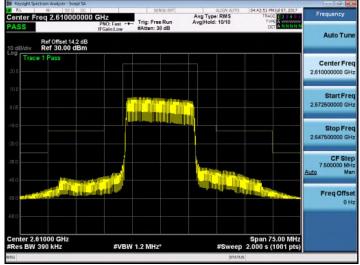


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Emission Mask Band 38 20M QPSK HIGH RB1,99



Emission Mask Band 38 20M QPSK HIGH RB100,0



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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 (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(c) (5) & FCC §27.53(g)

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

FCC §27.53(h) (3)

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

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FCC §27.53(m) (4) (6)

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

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

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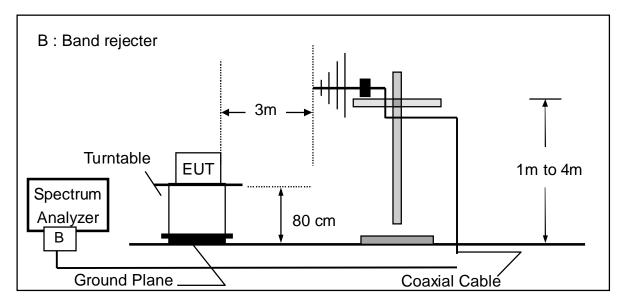
Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

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

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 5.2 for the permitted frequency ranges for various equipment types.

10.2. EUT Setup

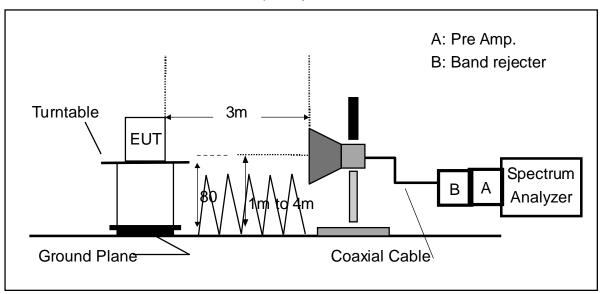
Radiated Emission Test Set-Up, Frequency Below 1000MHz



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Radiated Emission Test Set-UP Frequency Over 1 GHz

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)

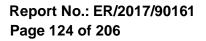
Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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10.4. Measurement Equipment Used:

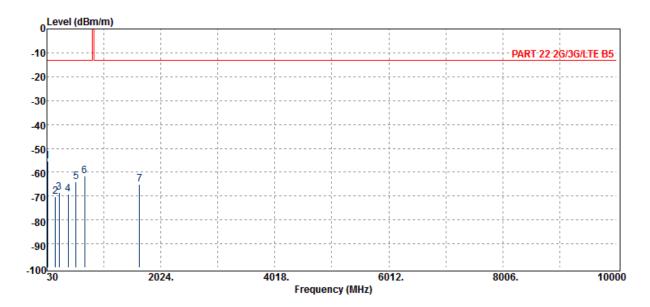
ERP, E	EIRP MEASUREM	ENT EQUIPME	NT List 966 (Chamber	
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/11/2017	05/10/2018
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/25/2017	04/24/2018
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017
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	01/05/2017	01/04/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/05/2017	01/04/2018
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	01/05/2017	01/04/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2017	06/30/2018
Low Loss Cable	Huber Suhner	966 TX	1	01/05/2017	01/04/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/05/2017	01/04/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2017	02/10/2018
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: GPPRS 850 Mode :GPRS 850 **Operation Band** Temp./Humi. :21 deg_C / 62 RH Fundamental Frequen-:824.2 MHz :Tin Engineer су **Operation Mode** :Tx CH LOW Antenna :VERTICAL Measurement EUT Pol. :E2 Plane Pol.

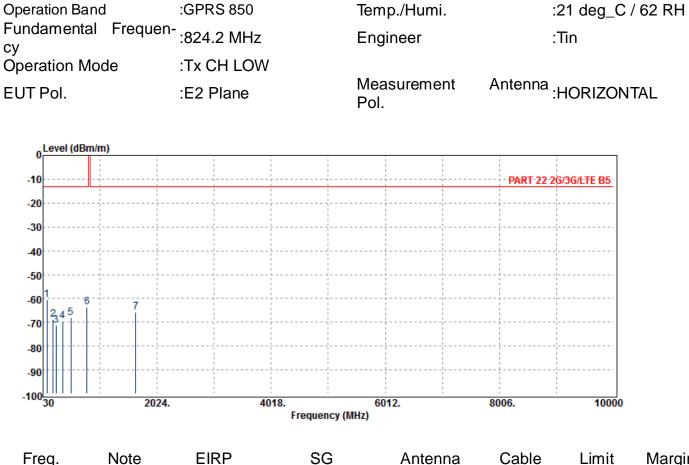


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-53.10	-41.42	-10.68	-1.00	-13	-40.10
179.38	S	-68.17	-69.54	2.93	-1.56	-13	-55.17
243.40	S	-66.38	-70.12	5.49	-1.75	-13	-53.38
401.51	S	-67.09	-70.67	5.97	-2.39	-13	-54.09
537.31	S	-62.00	-65.23	5.80	-2.57	-13	-49.00
691.54	S	-59.41	-61.82	5.24	-2.83	-13	-46.41
1648.40	Н	-62.79	-67.83	9.26	-4.22	-13	-49.79

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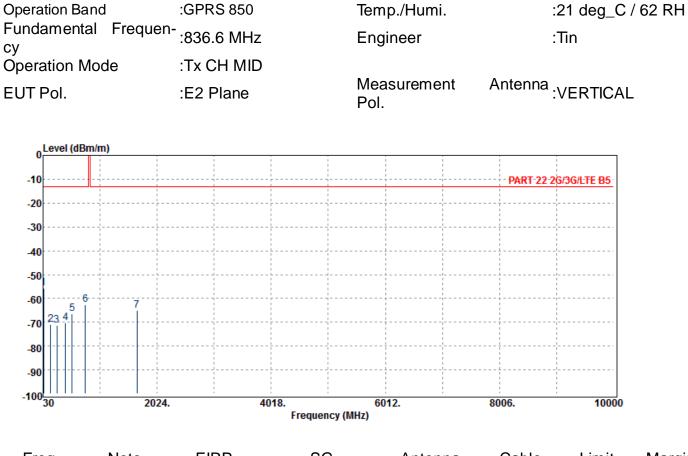


	Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
				Output Level	Gain	Loss			
	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
-									
	95.96	S	-58.50	-58.26	0.99	-1.23	-13	-45.50	
	206.54	S	-66.72	-70.59	5.53	-1.66	-13	-53.72	
	257.95	S	-69.11	-73.12	5.78	-1.77	-13	-56.11	
	374.35	S	-67.52	-71.28	5.99	-2.23	-13	-54.52	
	519.85	S	-65.93	-69.44	5.90	-2.39	-13	-52.93	
	799.21	S	-61.67	-64.26	5.49	-2.90	-13	-48.67	
	1648.40	Н	-63.44	-68.48	9.26	-4.22	-13	-50.44	

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Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss		-	
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
								•
41.64	S	-53.71	-42.03	-10.68	-1.00	-13	-40.71	
162.89	S	-68.69	-67.93	0.73	-1.49	-13	-55.69	
269.59	S	-68.96	-72.80	5.66	-1.82	-13	-55.96	
419.94	S	-67.98	-71.55	5.90	-2.33	-13	-54.98	
542.16	S	-64.17	-67.33	5.78	-2.62	-13	-51.17	
772.05	S	-60.65	-63.11	5.40	-2.94	-13	-47.65	
1673.20	Н	-62.79	-67.85	9.35	-4.29	-13	-49.79	
41.64 162.89 269.59 419.94 542.16 772.05	S S S S S S	-53.71 -68.69 -68.96 -67.98 -64.17 -60.65	-42.03 -67.93 -72.80 -71.55 -67.33 -63.11	-10.68 0.73 5.66 5.90 5.78 5.40	-1.00 -1.49 -1.82 -2.33 -2.62 -2.94	-13 -13 -13 -13 -13 -13	-40.71 -55.69 -55.96 -54.98 -51.17 -47.65	

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97.90

206.54

239.52

405.39

512.09

793.39

1673.20

S

S

S

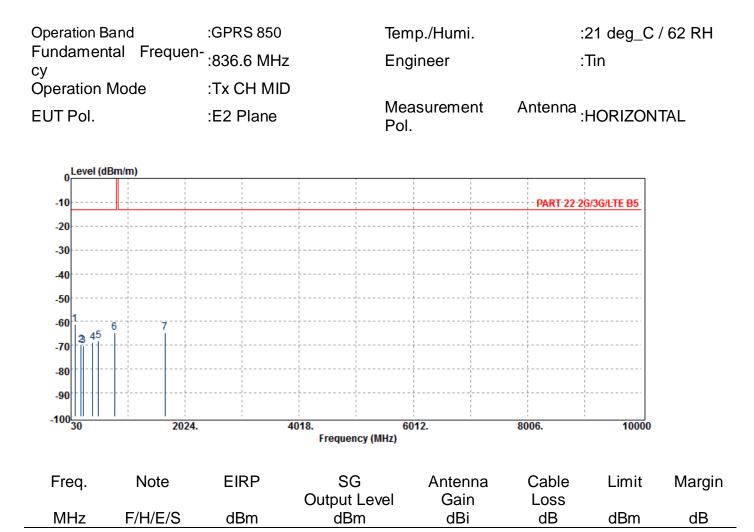
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-58.46

-71.54

-71.67

-70.32

-69.64

-65.16

-67.58

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-58.93

-67.67

-67.98

-66.78

-66.05

-62.59

-62.52

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0.77

5.53

5.43

5.95

5.94

5.47

9.35

-1.24

-1.66

-1.74

-2.41

-2.35

-2.90

-4.29

-45.93

-54.67

-54.98

-53.78

-53.05

-49.59

-49.52

-13

-13

-13

-13

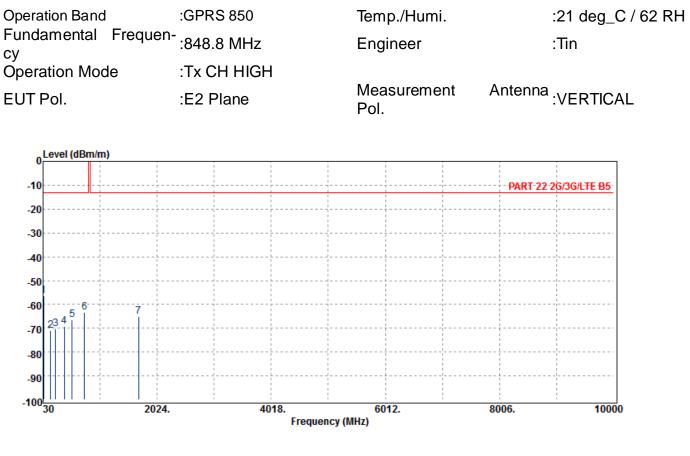
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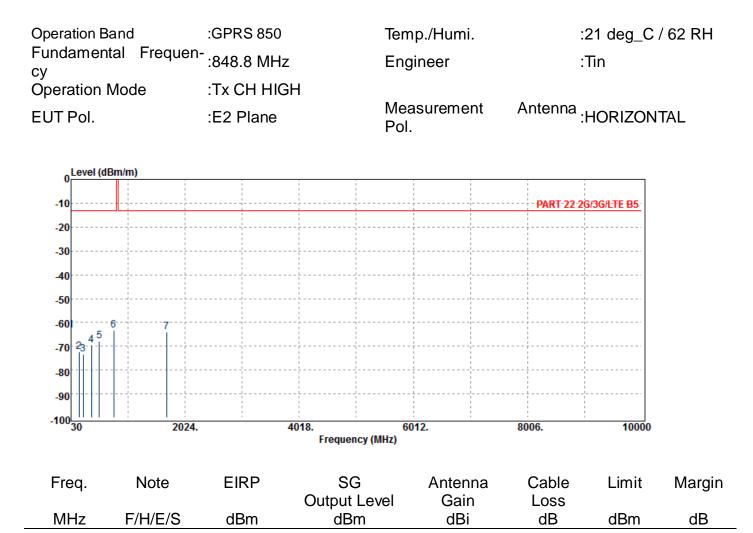
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Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
	1/1/2/3	UDITI	ubiii	UDI	uВ	ubiii	UD
41.64	S	-54.38	-42.70	-10.68	-1.00	-13	-41.38
162.89	S	-68.81	-68.05	0.73	-1.49	-13	-55.81
248.25	S	-68.18	-71.99	5.56	-1.75	-13	-55.18
400.54	S	-67.00	-70.59	5.97	-2.38	-13	-54.00
539.25	S	-64.31	-67.51	5.79	-2.59	-13	-51.31
757.50	S	-61.01	-63.34	5.36	-3.03	-13	-48.01
1697.60	Н	-62.74	-67.86	9.43	-4.31	-13	-49.74



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-47.67

-70.44

-74.85

-70.96

-69.07

-63.85

-66.88

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

-61.26

-70.08

-71.13

-67.28

-65.61

-61.33

-61.76

S

S

S

S

S

S

н

30.00

173.56

241.46

386.96

522.76

778.84

1697.60

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-12.63

1.89

5.46

5.98

5.88

5.43

9.43

-0.96

-1.53

-1.74

-2.30

-2.42

-2.91

-4.31

-48.26

-57.08

-58.13

-54.28

-52.61

-48.33

-48.76

-13

-13

-13

-13

-13

-13

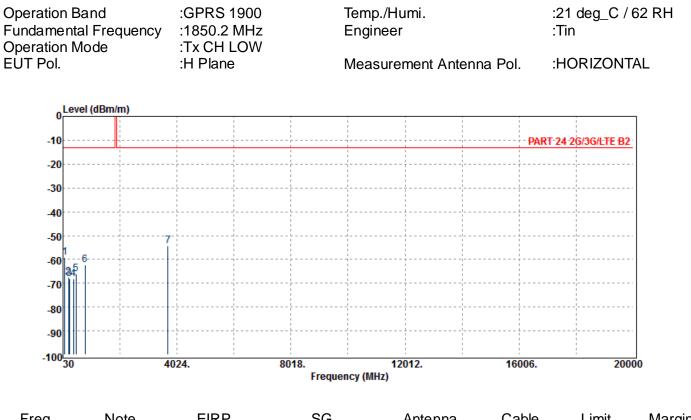
-13



Radiated Spurious Emission Measurement Result: GPRS 1900 Mode Operation Band Temp./Humi. :GPRS 1900 :21 deg_C / 62 RH Fundamental Frequency :1850.2 MHz Engineer :Tin **Operation Mode** :Tx CH LOW EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL 0 Level (dBm/m) -10 PART-24-26/36/LTF-B2 -20 -30 -40 -50 -60 -70 -80 -90 -100 8018. 30 4024. 12012. 16006. 20000 Frequency (MHz) 20 NIALA Antonno Cabla N / a marine

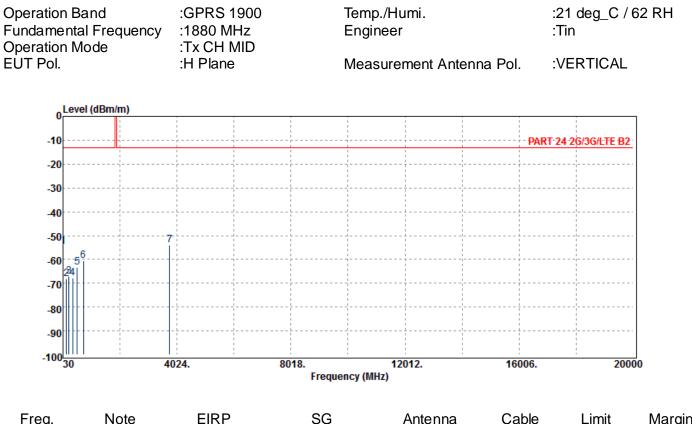
⊢req.	Note	EIRP	SG Output Level	Antenna Gain	Loss	Limit	Margin	
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	_
37.76	S	-57.49	-45.34	-11.17	-0.98	-13.00	-44.49	
173.56	S	-68.39	-68.75	1.89	-1.53	-13.00	-55.39	
282.20	S	-68.55	-72.24	5.57	-1.89	-13.00	-55.55	
410.24	S	-67.52	-71.06	5.93	-2.40	-13.00	-54.52	
524.70	S	-63.78	-67.21	5.87	-2.44	-13.00	-50.78	
682.81	S	-61.07	-63.66	5.25	-2.67	-13.00	-48.07	
3700.40	Н	-53.08	-58.95	12.44	-6.58	-13.00	-40.08	





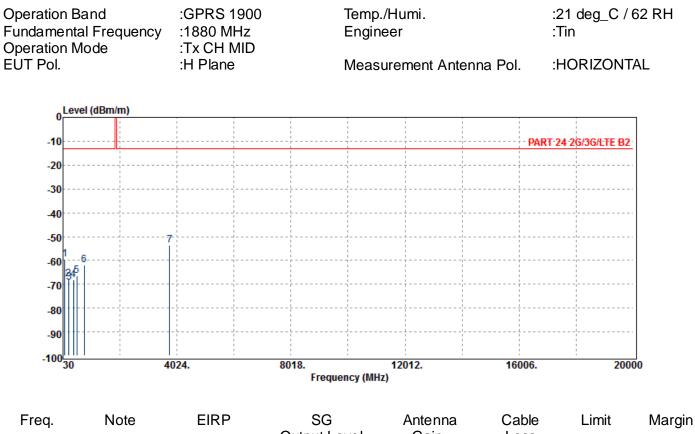
	Freq.	Note	EIRP	SG Output Level	Antenna Gain	Loss	Limit	Margin	
_	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	_
	95.96	S	-59.21	-58.97	0.99	-1.23	-13.00	-46.21	
	220.12	S	-67.60	-71.37	5.48	-1.70	-13.00	-54.60	
	253.10	S	-68.32	-72.22	5.66	-1.76	-13.00	-55.32	
	396.66	S	-68.02	-71.64	5.97	-2.36	-13.00	-55.02	
	482.99	S	-65.95	-69.64	5.94	-2.25	-13.00	-52.95	
	796.30	S	-62.21	-64.79	5.48	-2.90	-13.00	-49.21	
	3700.40	Н	-54.16	-60.02	12.44	-6.58	-13.00	-41.16	





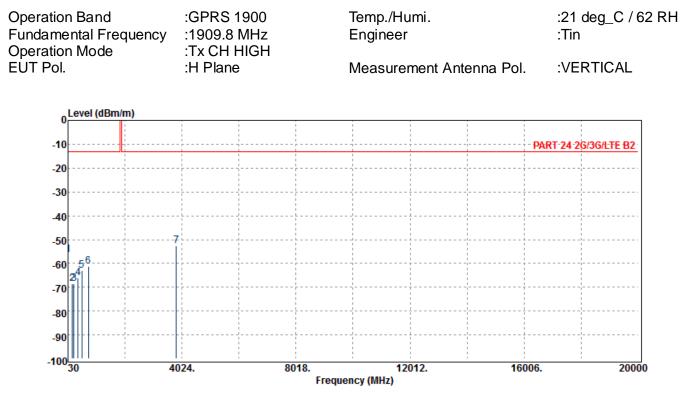
Fr	eq.	Note	EIRP	SG Output Level	Antenna Gain	Loss	Limit	wargin	
М	Hz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	_
42	.61	S	-54.62	-43.08	-10.54	-1.01	-13.00	-41.62	
	9.98	S	-68.22	-67.26	0.51	-1.48	-13.00	-55.22	
24	5.34	S	-67.17	-70.93	5.52	-1.75	-13.00	-54.17	
362	2.71	S	-67.89	-71.75	6.00	-2.15	-13.00	-54.89	
53 ⁻	1.49	S	-63.22	-66.54	5.84	-2.51	-13.00	-50.22	
744	4.89	S	-60.55	-62.76	5.32	-3.11	-13.00	-47.55	
376	0.00	Н	-53.97	-59.82	12.45	-6.60	-13.00	-40.97	





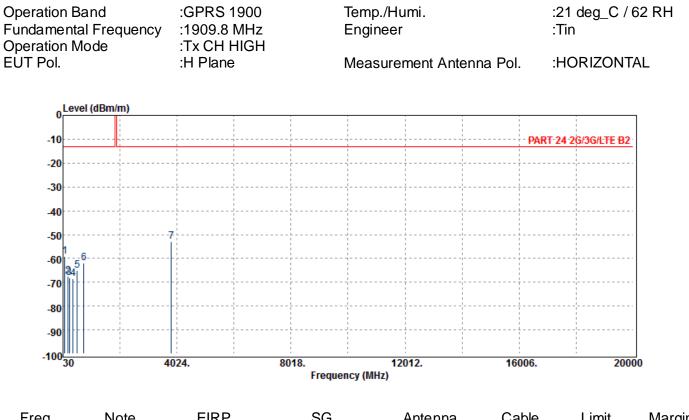
				Output Level	Gain	Loss		Juli gu	
_	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
									-
	97.90	S	-59.47	-59.00	0.77	-1.24	-13.00	-46.47	
	219.15	S	-67.92	-71.71	5.49	-1.70	-13.00	-54.92	
	239.52	S	-69.24	-72.93	5.43	-1.74	-13.00	-56.24	
	398.60	S	-68.27	-71.87	5.97	-2.37	-13.00	-55.27	
	519.85	S	-66.50	-70.01	5.90	-2.39	-13.00	-53.50	
	774.96	S	-61.79	-64.28	5.41	-2.92	-13.00	-48.79	
	3760.00	Н	-53.61	-59.47	12.45	-6.60	-13.00	-40.61	





Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
37.76	S	-56.36	-44.21	-11.17	-0.98	-13.00	-43.36
175.50	S	-68.55	-69.25	2.24	-1.54	-13.00	-55.55
243.40	S	-68.46	-72.20	5.49	-1.75	-13.00	-55.46
390.84	S	-66.26	-69.91	5.98	-2.33	-13.00	-53.26
517.91	S	-63.06	-66.60	5.91	-2.37	-13.00	-50.06
740.04	S	-61.11	-63.28	5.31	-3.14	-13.00	-48.11
3819.60	Н	-52.77	-58.58	12.47	-6.65	-13.00	-39.77





Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
95.96	S	-59.04	-58.80	0.99	-1.23	-13.00	-46.04	
207.51	S	-67.62	-71.53	5.57	-1.66	-13.00	-54.62	
253.10	S	-68.20	-72.11	5.66	-1.76	-13.00	-55.20	
388.90	S	-68.39	-72.06	5.98	-2.31	-13.00	-55.39	
526.64	S	-65.15	-68.55	5.86	-2.46	-13.00	-52.15	
755.56	S	-62.11	-64.42	5.35	-3.04	-13.00	-49.11	
3819.60	Н	-52.78	-58.60	12.47	-6.65	-13.00	-39.78	



-40 -50 -60 -70 -80 -90 -100

30

4024.

20000

16006.

Radiated Spurious Emission Measurement Result: HSDPA Band 2 Mode Operation Band :HSDPA B2 Temp./Humi. :21 deg_C / 62 RH Fundamental Frequency :1852.4 MHz Engineer :Tin **Operation Mode** :Tx CH LOW EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL 0Level (dBm/m) -10 PART-24-26/36/LTE-B2 -20 -30

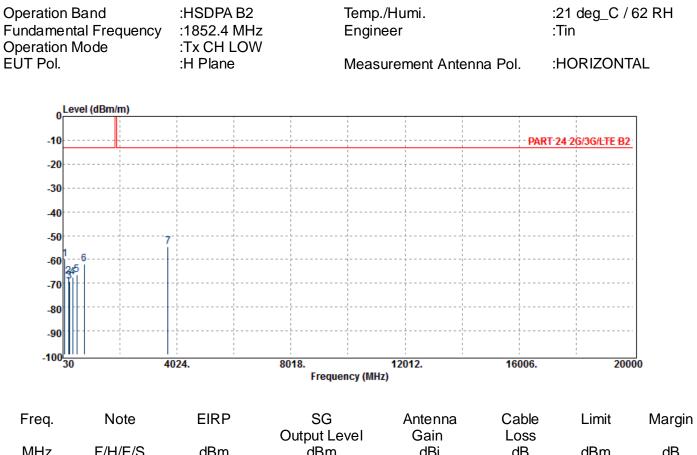
Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
32.91	S	-58.28	-45.37	-11.94	-0.97	-13.00	-45.28
168.71	S	-68.54	-68.17	1.15	-1.51	-13.00	-55.54
265.71	S	-68.59	-72.52	5.73	-1.80	-13.00	-55.59
403.45	S	-67.41	-70.97	5.96	-2.40	-13.00	-54.41
513.06	S	-63.76	-67.34	5.94	-2.35	-13.00	-50.76
745.86	S	-60.49	-62.71	5.32	-3.10	-13.00	-47.49
3704.80	Н	-56.57	-62.43	12.44	-6.58	-13.00	-43.57

Frequency (MHz)

12012.

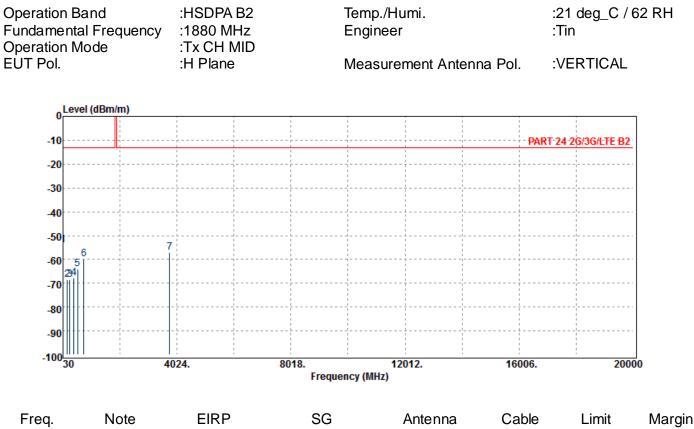
8018.





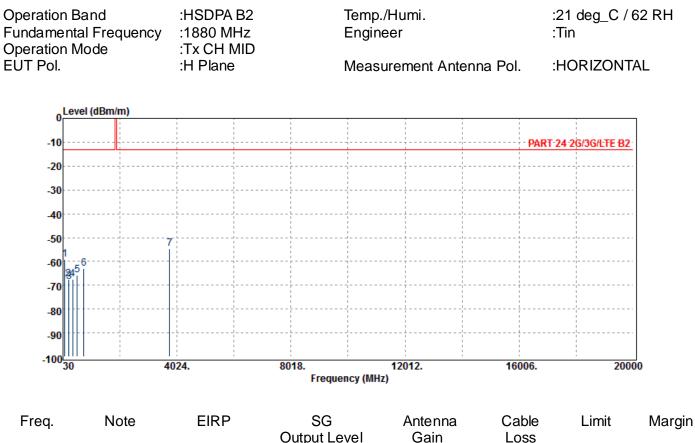
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
95.96	S	-59.69	-59.45	0.99	-1.23	-13.00	-46.69
220.12	S	-67.21	-70.98	5.48	-1.70	-13.00	-54.21
255.04	S	-69.15	-73.09	5.71	-1.76	-13.00	-56.15
371.44	S	-67.50	-71.28	5.99	-2.21	-13.00	-54.50
512.09	S	-66.52	-70.11	5.94	-2.35	-13.00	-53.52
767.20	S	-62.09	-64.51	5.39	-2.97	-13.00	-49.09
3704.80	Н	-54.52	-60.38	12.44	-6.58	-13.00	-41.52





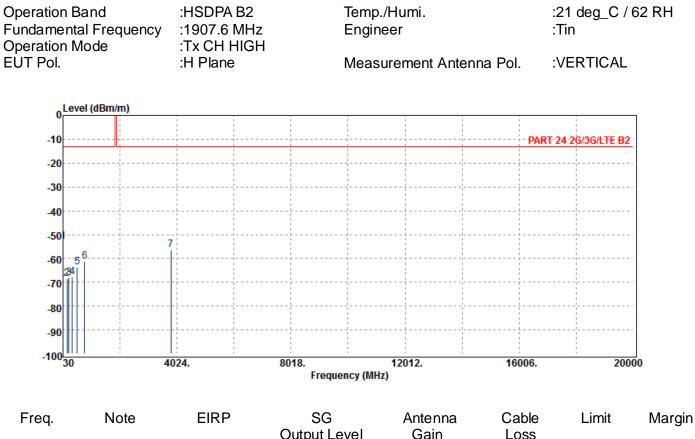
1104	11010	2.1.(1	Output Level	Gain	Loss		margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-53.91	-42.23	-10.68	-1.00	-13.00	-40.91
177.44	S	-68.59	-69.62	2.59	-1.55	-13.00	-55.59
274.44	S	-68.50	-72.27	5.62	-1.85	-13.00	-55.50
411.21	S	-67.92	-71.45	5.93	-2.39	-13.00	-54.92
537.31	S	-64.07	-67.31	5.80	-2.57	-13.00	-51.07
759.44	S	-60.03	-62.37	5.36	-3.02	-13.00	-47.03
3760.00	Н	-57.06	-62.91	12.45	-6.60	-13.00	-44.06





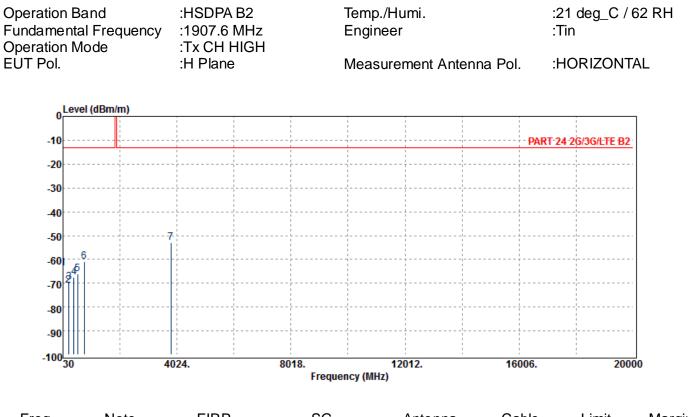
					Gain	L055			
_	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
	97.90	S	-59.10	-58.62	0.77	-1.24	-13.00	-46.10	
	219.15	S	-67.46	-71.26	5.49	-1.70	-13.00	-54.46	
	239.52	S	-68.67	-72.36	5.43	-1.74	-13.00	-55.67	
	366.59	S	-67.45	-71.27	6.00	-2.17	-13.00	-54.45	
	524.70	S	-65.70	-69.13	5.87	-2.44	-13.00	-52.70	
	757.50	S	-62.92	-65.25	5.36	-3.03	-13.00	-49.92	
	3760.00	Н	-54.57	-60.43	12.45	-6.60	-13.00	-41.57	





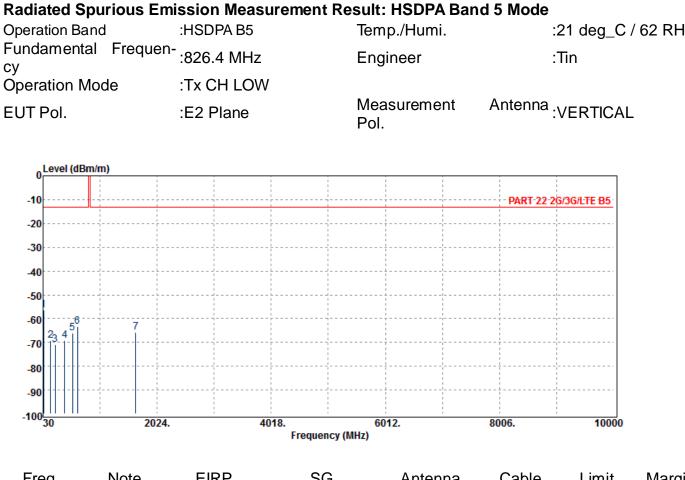
					Gain	LOSS			
_	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
	41.64	S	-52.91	-41.22	-10.68	-1.00	-13.00	-39.91	
	173.56	S	-68.57	-68.92	1.89	-1.53	-13.00	-55.57	
	241.46	S	-68.06	-71.77	5.46	-1.74	-13.00	-55.06	
	353.01	S	-67.81	-71.75	6.01	-2.07	-13.00	-54.81	
	522.76	S	-63.75	-67.21	5.88	-2.42	-13.00	-50.75	
	791.45	S	-61.36	-63.92	5.47	-2.90	-13.00	-48.36	
	3815.20	Н	-56.46	-62.29	12.46	-6.63	-13.00	-43.46	





Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
								•
30.00	S	-63.65	-50.07	-12.63	-0.96	-13.00	-50.65	
220.12	S	-70.82	-74.59	5.48	-1.70	-13.00	-57.82	
243.40	S	-69.45	-73.19	5.49	-1.75	-13.00	-56.45	
413.15	S	-67.62	-71.17	5.92	-2.38	-13.00	-54.62	
537.31	S	-65.97	-69.20	5.80	-2.57	-13.00	-52.97	
774.96	S	-60.76	-63.25	5.41	-2.92	-13.00	-47.76	
3815.20	Н	-52.90	-58.74	12.46	-6.63	-13.00	-39.90	





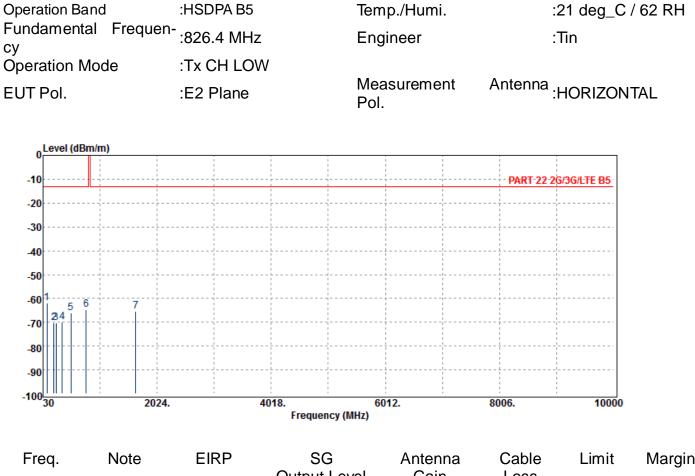
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
42.61	S	-54.26	-42.71	-10.54	-1.01	-13	-41.26
165.80	S	-66.99	-66.43	0.94	-1.50	-13	-53.99
240.49	S	-68.65	-72.35	5.44	-1.74	-13	-55.65
410.24	S	-67.05	-70.58	5.93	-2.40	-13	-54.05
546.04	S	-63.81	-66.91	5.76	-2.66	-13	-50.81
634.31	S	-61.14	-64.01	5.32	-2.45	-13	-48.14
1652.80	Н	-63.69	-68.72	9.27	-4.24	-13	-50.69

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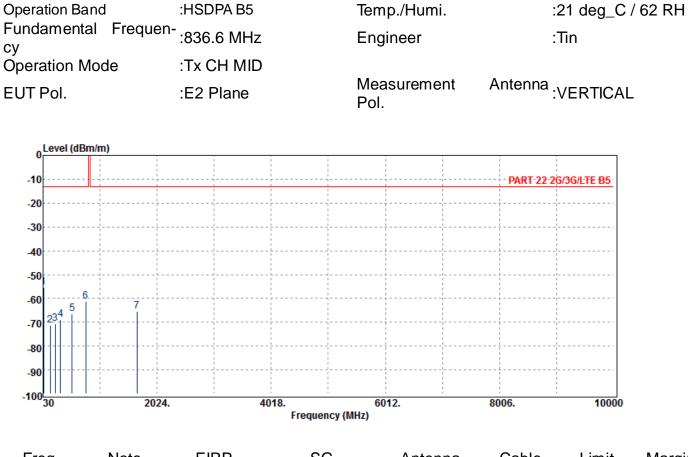
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	Freq.	Note	EIRP	Output Level	Gain	Loss	Limit	wargin	
_	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
	97.90	S	-59.69	-59.22	0.77	-1.24	-13	-46.69	
	219.15	S	-67.93	-71.72	5.49	-1.70	-13	-54.93	
	256.01	S	-68.05	-72.01	5.73	-1.77	-13	-55.05	
	362.71	S	-67.61	-71.46	6.00	-2.15	-13	-54.61	
	516.94	S	-63.81	-67.35	5.91	-2.37	-13	-50.81	
	783.69	S	-62.52	-65.05	5.44	-2.91	-13	-49.52	
	1652.80	Н	-63.29	-68.32	9.27	-4.24	-13	-50.29	



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	Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
				Output Level	Gain	Loss			
	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
_									
	41.64	S	-53.37	-41.69	-10.68	-1.00	-13	-40.37	
	154.16	S	-69.13	-67.93	0.25	-1.45	-13	-56.13	
	243.40	S	-68.46	-72.20	5.49	-1.75	-13	-55.46	
	335.55	S	-66.72	-70.74	5.95	-1.93	-13	-53.72	
	541.19	S	-64.44	-67.61	5.78	-2.61	-13	-51.44	
	774.96	S	-59.16	-61.65	5.41	-2.92	-13	-46.16	
	1673.20	Н	-63.12	-68.18	9.35	-4.29	-13	-50.12	



37.76

194.90

279.29

386.96

515.00

789.51

1673.20

S

S

S

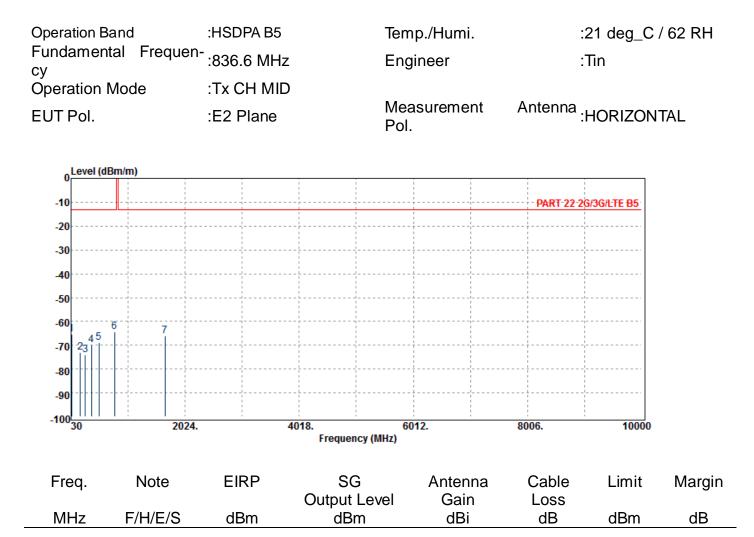
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-51.07

-74.08

-75.69

-71.37

-70.34

-64.90

-68.87

-63.22

-70.72

-71.98

-67.69

-66.78

-62.34

-63.81

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-11.17

4.98

5.58

5.98

5.92

5.46

9.35

-0.98

-1.62

-1.87

-2.30

-2.36

-2.90

-4.29

-50.22

-57.72

-58.98

-54.69

-53.78

-49.34

-50.81

-13

-13

-13

-13

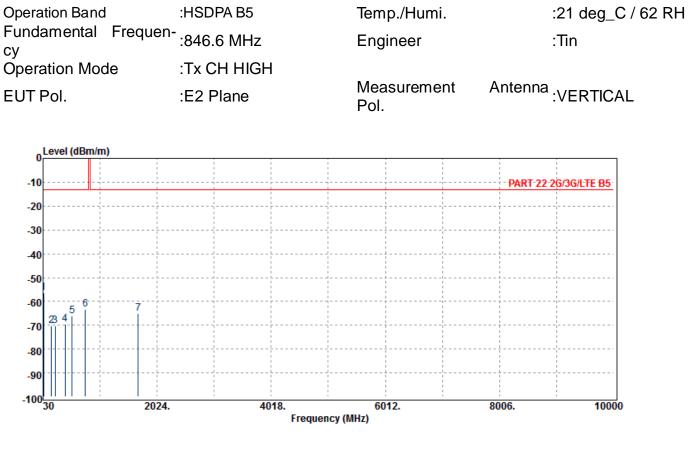
-13

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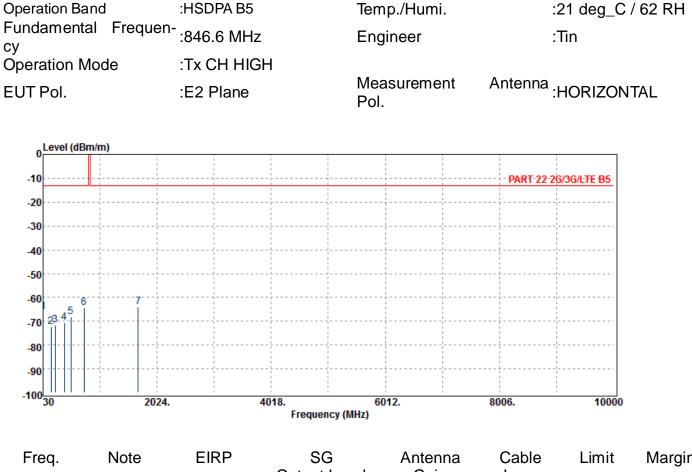
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Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
	1/11/2/0	dBill	dDiff		<u>ub</u>	abiii	
41.64	S	-54.28	-42.60	-10.68	-1.00	-13	-41.28
178.41	S	-68.24	-69.45	2.76	-1.55	-13	-55.24
245.34	S	-67.97	-71.74	5.52	-1.75	-13	-54.97
415.09	S	-67.43	-70.98	5.92	-2.37	-13	-54.43
536.34	S	-64.09	-67.34	5.81	-2.56	-13	-51.09
769.14	S	-61.27	-63.70	5.39	-2.96	-13	-48.27
1693.20	Н	-62.82	-67.94	9.42	-4.30	-13	-49.82



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	Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
				Output Level	Gain	Loss			
_	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
	30.00	S	-63.82	-50.23	-12.63	-0.96	-13	-50.82	
	173.56	S	-70.34	-70.70	1.89	-1.53	-13	-57.34	
	243.40	S	-69.35	-73.09	5.49	-1.75	-13	-56.35	
	403.45	S	-68.32	-71.88	5.96	-2.40	-13	-55.32	
	517.91	S	-66.07	-69.61	5.91	-2.37	-13	-53.07	
	747.80	S	-62.10	-64.34	5.33	-3.09	-13	-49.10	
	1693.20	Н	-61.82	-66.94	9.42	-4.30	-13	-48.82	



403.45

516.94

683.78

1653.00

S

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Operation Band :LTE B5 Temp./Humi. :22 deg C / 61 RH Fundamental Frequency :826.5 MHz Engineer :Tin **Operation Mode** :Tx CH LOW EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol. 0 Level (dBm/m) -10 PART 22 26/36/LTF B5 -20 -30 -40 -50 -60 5 234 -70 -80 -90 -100 30 2024. 4018. 6012. 8006. 10000 Frequency (MHz) Freq. Note EIRP SG Antenna Cable Limit Margin Output Lev-Gain Loss el MHz F/H/E/S dBm dBm dBi dB dBm dB 44.55 S -59.44 -48.15 -10.27 -1.02-13 -46.44 167.74 S -66.84 1.08 -1.51 -54.27 -67.27 -13 S S 282.20 -1.89-67.94-71.62 5.57 -13 -54.94

-70.87

-66.54

-62.52

-68.13

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

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.

-67.31

-63.00

-59.96

-63.10

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5.96

5.91

5.25

9.27

-2.40

-2.37

-2.69

-4.24

-13

-13

-13

-13

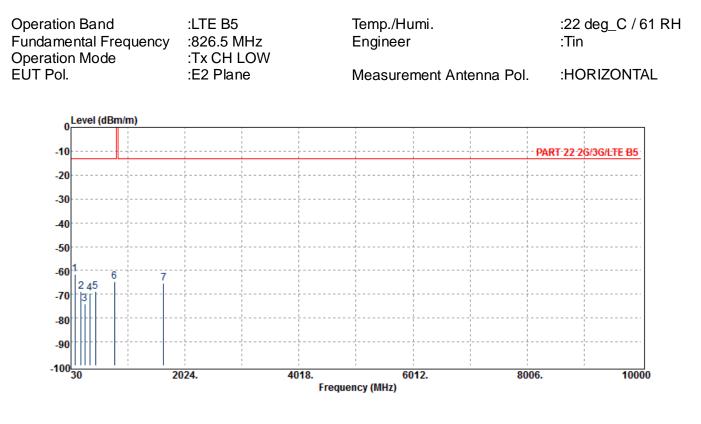
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-50.00

-46.96

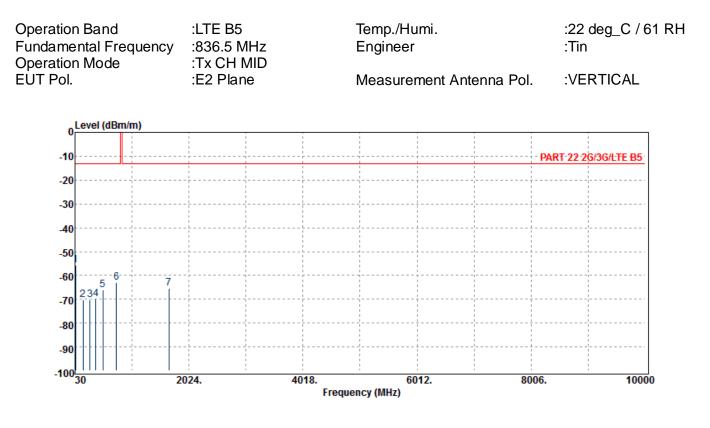
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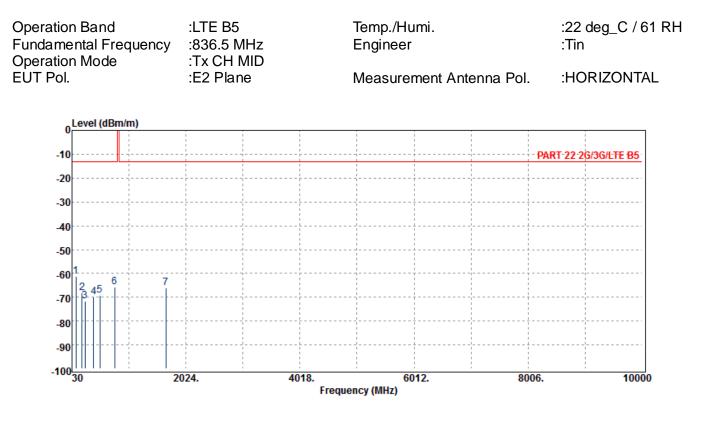
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		C C
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
97.90	S	-59.38	-58.91	0.77	-1.24	-13	-46.38
207.51	S	-66.72	-70.63	5.57	-1.66	-13	-53.72
274.44	S	-72.05	-75.82	5.62	-1.85	-13	-59.05
361.74	S	-67.32	-71.18	6.00	-2.14	-13	-54.32
459.71	S	-66.59	-70.22	5.84	-2.21	-13	-53.59
794.36	S	-62.46	-65.03	5.47	-2.90	-13	-49.46
1653.00	Н	-63.15	-68.18	9.27	-4.24	-13	-50.15
207.51 274.44 361.74 459.71 794.36	S S S S S	-66.72 -72.05 -67.32 -66.59 -62.46	-70.63 -75.82 -71.18 -70.22 -65.03	5.57 5.62 6.00 5.84 5.47	-1.66 -1.85 -2.14 -2.21 -2.90	-13 -13 -13 -13 -13 -13	-53.72 -59.05 -54.32 -53.59 -49.46





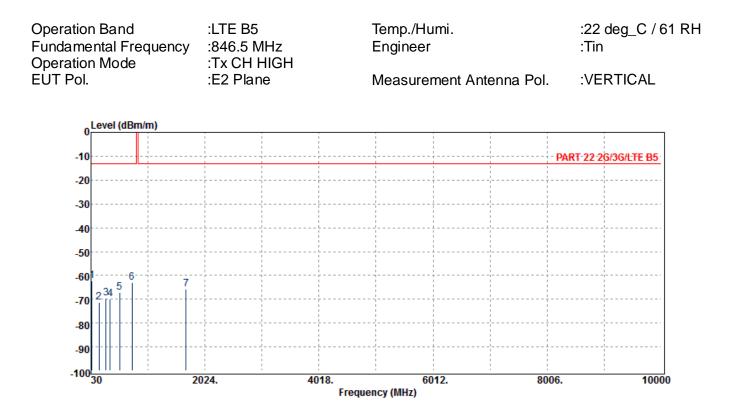
Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
41.64	S	-53.61	-41.93	-10.68	-1.00	-13	-40.61
173.56	S	-68.11	-68.47	1.89	-1.53	-13	-55.11
296.75	S	-68.10	-71.86	5.71	-1.95	-13	-55.10
395.69	S	-67.72	-71.34	5.97	-2.35	-13	-54.72
519.85	S	-63.87	-67.38	5.90	-2.39	-13	-50.87
755.56	S	-60.81	-63.12	5.35	-3.04	-13	-47.81
1673.00	Н	-63.38	-68.44	9.35	-4.29	-13	-50.38





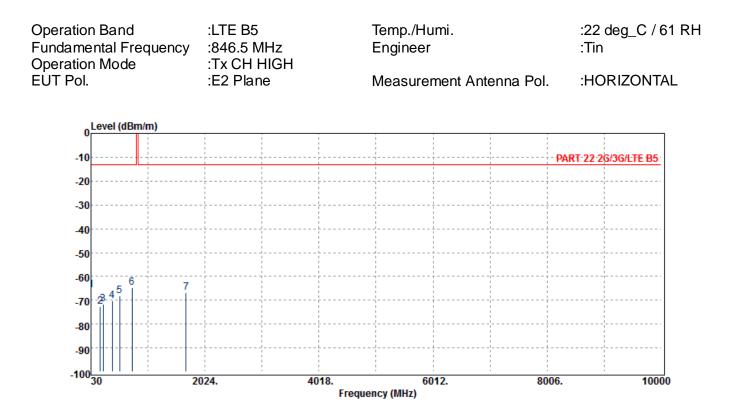
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		-
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
94.99	S	-59.23	-59.11	1.11	-1.23	-13	-46.23
206.54	S	-65.92	-69.79	5.53	-1.66	-13	-52.92
257.95	S	-69.51	-73.52	5.78	-1.77	-13	-56.51
410.24	S	-67.79	-71.32	5.93	-2.40	-13	-54.79
517.91	S	-67.03	-70.57	5.91	-2.37	-13	-54.03
774.96	S	-63.51	-66.00	5.41	-2.92	-13	-50.51
1673.00	Н	-63.80	-68.86	9.35	-4.29	-13	-50.80





Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
44.55	S	-60.23	-48.94	-10.27	-1.02	-13	-47.23
173.56	S	-69.23	-69.59	1.89	-1.53	-13	-56.23
296.75	S	-67.41	-71.17	5.71	-1.95	-13	-54.41
366.59	S	-67.84	-71.67	6.00	-2.17	-13	-54.84
531.49	S	-64.94	-68.27	5.84	-2.51	-13	-51.94
744.89	S	-60.77	-62.98	5.32	-3.11	-13	-47.77
1693.00	Н	-63.52	-68.64	9.42	-4.30	-13	-50.52





Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.00	S	-63.44	-49.85	-12.63	-0.96	-13	-50.44
194.90	S	-70.44	-73.80	4.98	-1.62	-13	-57.44
245.34	S	-69.43	-73.20	5.52	-1.75	-13	-56.43
403.45	S	-68.14	-71.70	5.96	-2.40	-13	-55.14
534.40	S	-66.10	-69.38	5.82	-2.54	-13	-53.10
750.71	S	-62.51	-64.77	5.33	-3.07	-13	-49.51
1693.00	Н	-64.61	-69.73	9.42	-4.30	-13	-51.61



Operation Band :LTE B7 Temp./Humi. :21 deg C / 62 RH **Fundamental Frequency** :2505 MHz Engineer :Tin **Operation Mode** :Tx CH LOW EUT Pol. ·H Plane Measurement Antenna Pol. :VERTICAL Level (dBm/m) -10 -20 PART 27 LTE(B7) -30 -40 -50 -60 -70 -80 -90 -100<mark>_____</mark>30 5324. 10618. 15912. 21206. 26500 Frequency (MHz) Freq. Note EIRP SG Antenna Cable Limit Margin Output Level Gain Loss MHz F/H/E/S dBm dBm dBi dB dBm dB 39.70 S -53.49 -41.53 -10.96 -0.99 -25.00-28.49S 165.80 -68.68 -68.11 0.94 -1.50 -25.00 -43.68 S -25.00 274.44 -68.43 -72.205.62 -1.85 -43.43 S -67.37 -71.10 379.20 5.99 -2.26 -25.00-42.37S 526.64 -64.49 -67.89 5.86 -25.00 -2.46-39.49

-63.31

-60.91

Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

-60.89

-56.02

S

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767.20

5010.00

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5.39

12.70

-2.97

-7.81

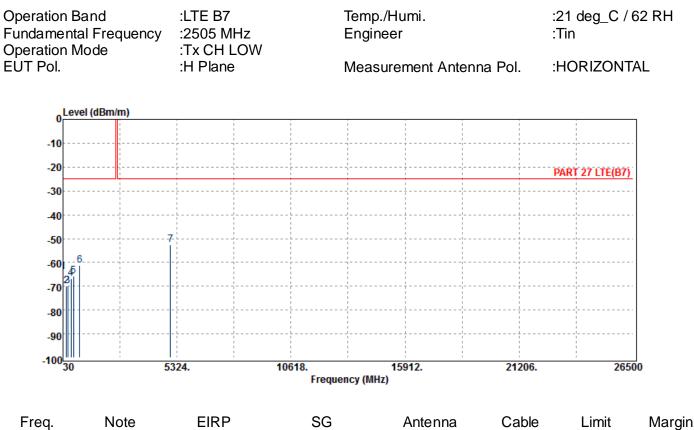
-25.00

-25.00

-35.89

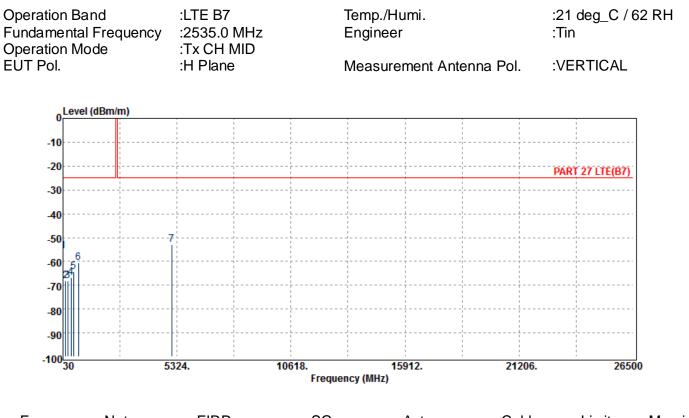
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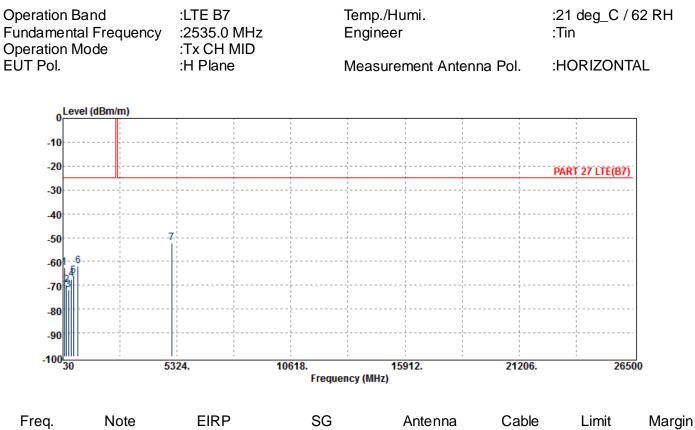
1104.	1010	Enti	Output Level	Gain	Loss		Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
37.76	S	-63.87	-51.72	-11.17	-0.98	-25.00	-38.87
198.78	S	-69.97	-73.53	5.19	-1.63	-25.00	-44.97
243.40	S	-69.92	-73.66	5.49	-1.75	-25.00	-44.92
411.21	S	-66.71	-70.24	5.93	-2.39	-25.00	-41.71
521.79	S	-65.72	-69.20	5.89	-2.41	-25.00	-40.72
796.30	S	-61.21	-63.79	5.48	-2.90	-25.00	-36.21
5010.00	Н	-52.75	-57.64	12.70	-7.81	-25.00	-27.75





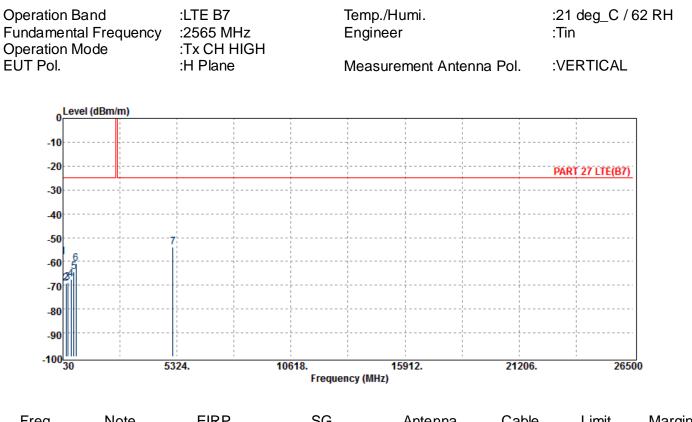
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
								-
37.76	S	-55.72	-43.57	-11.17	-0.98	-25.00	-30.72	
160.95	S	-68.27	-67.37	0.58	-1.48	-25.00	-43.27	
246.31	S	-68.19	-71.97	5.53	-1.75	-25.00	-43.19	
395.69	S	-66.72	-70.34	5.97	-2.35	-25.00	-41.72	
516.94	S	-64.29	-67.84	5.91	-2.37	-25.00	-39.29	
750.71	S	-60.42	-62.68	5.33	-3.07	-25.00	-35.42	
5070.00	Н	-53.10	-57.97	12.73	-7.86	-25.00	-28.10	





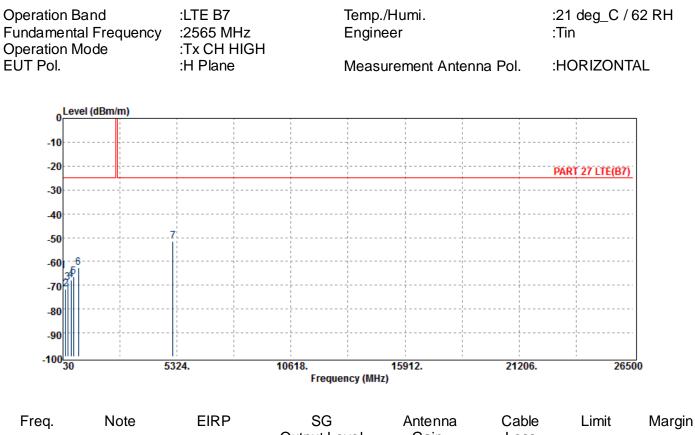
1109	11010	2	Output Level	Gain	Loss		margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
07.00	0		00.40	o 		05.00	
97.90	S	-62.63	-62.16	0.77	-1.24	-25.00	-37.63
191.99	S	-70.02	-73.23	4.82	-1.61	-25.00	-45.02
285.11	S	-71.93	-75.60	5.58	-1.90	-25.00	-46.93
415.09	S	-67.41	-70.96	5.92	-2.37	-25.00	-42.41
526.64	S	-65.92	-69.32	5.86	-2.46	-25.00	-40.92
738.10	S	-61.98	-64.15	5.31	-3.13	-25.00	-36.98
5070.00	Н	-52.32	-57.19	12.73	-7.86	-25.00	-27.32





Freq.	Note	EIRP	SG Output Level	Antenna Gain	Loss	Limit	Margin	
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	_
36.79	S	-58.08	-45.82	-11.28	-0.98	-25.00	-33.08	
178.41	S	-69.33	-70.53	2.76	-1.55	-25.00	-44.33	
243.40	S	-68.75	-72.49	5.49	-1.75	-25.00	-43.75	
400.54	S	-67.55	-71.14	5.97	-2.38	-25.00	-42.55	
542.16	S	-64.23	-67.39	5.78	-2.62	-25.00	-39.23	
628.49	S	-60.77	-63.63	5.33	-2.47	-25.00	-35.77	
5130.00	Н	-54.03	-58.87	12.75	-7.92	-25.00	-29.03	





MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
30.00	S	-64.10	-50.52	-12.63	-0.96	-25.00	-39.10
153.19	S	-71.52	-70.28	0.20	-1.44	-25.00	-46.52
241.46	S	-68.84	-72.55	5.46	-1.74	-25.00	-43.84
411.21	S	-67.76	-71.30	5.93	-2.39	-25.00	-42.76
513.06	S	-66.60	-70.18	5.94	-2.35	-25.00	-41.60
744.89	S	-62.50	-64.72	5.32	-3.11	-25.00	-37.50
5130.00	Н	-51.50	-56.34	12.75	-7.92	-25.00	-26.50



S

S

S

н

410.24

541.19

619.76

5145.00

Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case) **Operation Band** :LTE B38 Temp./Humi. :22 deg C / 61 RH **Fundamental Frequency** :2572.5 MHz Engineer :Tin **Operation Mode** :Tx CH LOW EUT Pol. ·H Plane Measurement Antenna Pol. :VERTICAL Level (dBm/m) -10 -20 **PART 27 LTE(B38)** -30 -40 -50 -60 -70 -80 -90 -100<mark>_____</mark>30 5324. 10618. 15912. 21206. 26500 Frequency (MHz) Freq. Note EIRP SG Antenna Cable Limit Margin Output Level Gain Loss MHz F/H/E/S dBm dBm dBi dB dBm dB 36.79 S -62.09-49.84-11.28-0.98 -25.00-37.09S 172.59 -67.41 -67.60 1.71 -1.53 -25.00 -42.41 S -25.00 240.49 -69.12 -72.83 5.44 -1.74 -44.12

-71.00

-66.48

-63.68

-59.37

-67.46

-63.30

-60.88

-54.55

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5.93

5.78

5.35

12.76

-2.40

-2.61

-2.55

-7.94

-25.00

-25.00

-25.00

-25.00

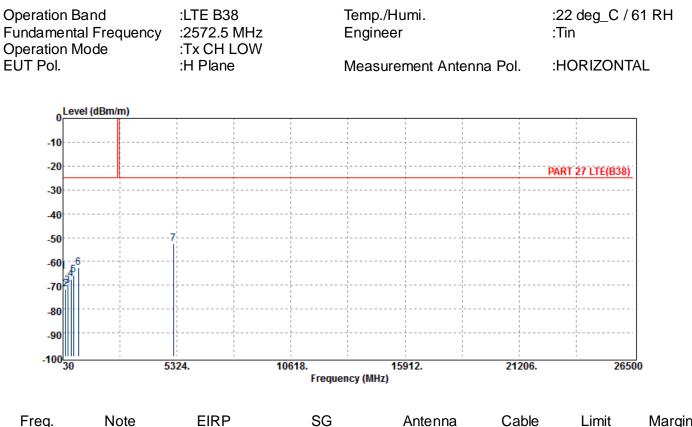
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-38.30

-35.88

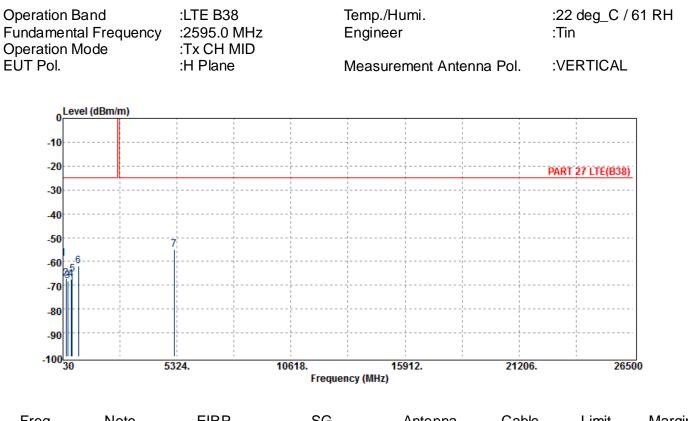
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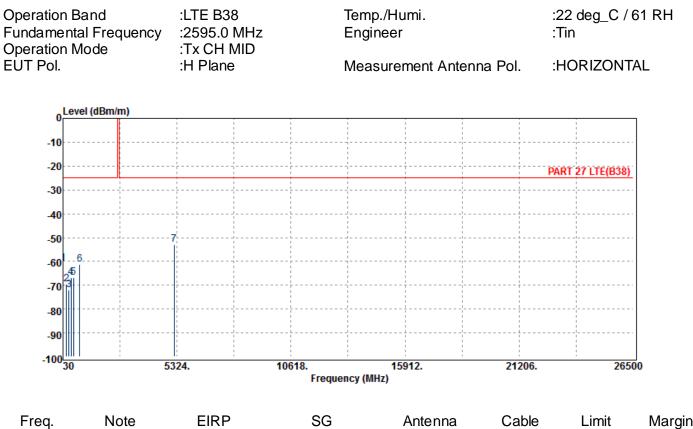
	Freq.	Note	EIRP	SG Output Level	Antenna Gain	Loss	Limit	wargin	
-	MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	_
	46.40	C	64.00	E0.07	0.00	1.00	25.00	20.20	
	46.49	S	-64.29	-53.37	-9.89	-1.03	-25.00	-39.29	
	153.19	S	-71.59	-70.35	0.20	-1.44	-25.00	-46.59	
	243.40	S	-70.07	-73.82	5.49	-1.75	-25.00	-45.07	
	403.45	S	-67.64	-71.20	5.96	-2.40	-25.00	-42.64	
	512.09	S	-65.66	-69.26	5.94	-2.35	-25.00	-40.66	
	744.89	S	-62.70	-64.91	5.32	-3.11	-25.00	-37.70	
	5145.00	Н	-52.43	-57.25	12.76	-7.94	-25.00	-27.43	





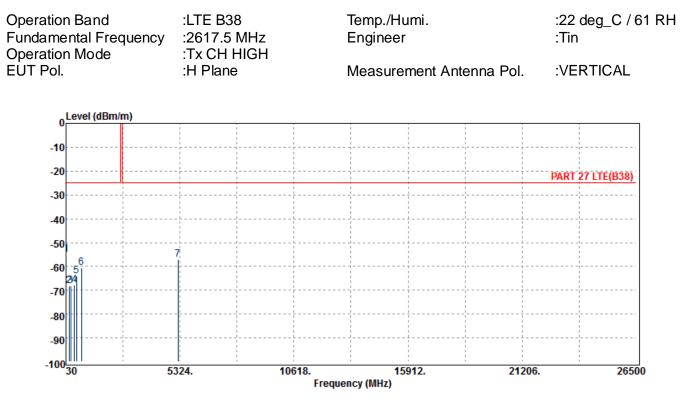
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
32.91	S	-58.68	-45.77	-11.94	-0.97	-25.00	-33.68	
173.56	S	-67.16	-67.52	1.89	-1.53	-25.00	-42.16	
248.25	S	-68.03	-71.84	5.56	-1.75	-25.00	-43.03	
405.39	S	-67.58	-71.12	5.95	-2.41	-25.00	-42.58	
453.89	S	-65.24	-68.85	5.81	-2.20	-25.00	-40.24	
750.71	S	-61.80	-64.07	5.33	-3.07	-25.00	-36.80	
5190.00	Н	-54.92	-59.75	12.78	-7.95	-25.00	-29.92	





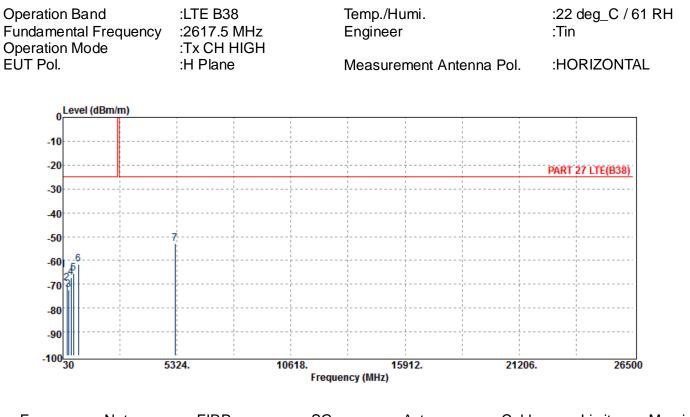
TTEQ.	NOLE	LIIXF	Output Level	Gain	Loss		Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.00	S	-60.98	-47.39	-12.63	-0.96	-25.00	-35.98
199.75	S	-69.52	-73.13	5.24	-1.63	-25.00	-44.52
299.66	S	-72.06	-75.88	5.77	-1.95	-25.00	-47.06
403.45	S	-66.77	-70.33	5.96	-2.40	-25.00	-41.77
520.82	S	-66.69	-70.18	5.89	-2.40	-25.00	-41.69
796.30	S	-61.36	-63.94	5.48	-2.90	-25.00	-36.36
5190.00	Н	-52.82	-57.66	12.78	-7.95	-25.00	-27.82





Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		-
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
39.70	S	-55.12	-43.17	-10.96	-0.99	-25.00	-30.12
172.59	S	-68.15	-68.34	1.71	-1.53	-25.00	-43.15
245.34	S	-68.02	-71.79	5.52	-1.75	-25.00	-43.02
416.06	S	-67.92	-71.47	5.91	-2.36	-25.00	-42.92
524.70	S	-63.93	-67.36	5.87	-2.44	-25.00	-38.93
749.74	S	-60.41	-62.66	5.33	-3.08	-25.00	-35.41
5235.00	Н	-57.20	-61.99	12.80	-8.00	-25.00	-32.20





Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
								•
37.76	S	-63.96	-51.81	-11.17	-0.98	-25.00	-38.96	
219.15	S	-69.52	-73.32	5.49	-1.70	-25.00	-44.52	
282.20	S	-72.24	-75.93	5.57	-1.89	-25.00	-47.24	
410.24	S	-67.02	-70.56	5.93	-2.40	-25.00	-42.02	
522.76	S	-65.28	-68.75	5.88	-2.42	-25.00	-40.28	
755.56	S	-61.73	-64.04	5.35	-3.04	-25.00	-36.73	
5235.00	Н	-53.11	-57.90	12.80	-8.00	-25.00	-28.11	



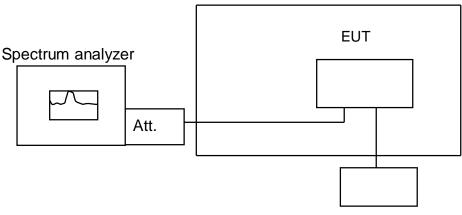
11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable:

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

11.2. Test Set-up:

Temperature Chamber



Variable DC Power Supply

Note: Measurement setup for testing on Antenna connector

11.3. Measurement Procedure:

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

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

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

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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.



11.4. Measurement Equipment Used:

Conducted Emission (measured at antenna port) Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017			
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017			
EXA Spectrum Analyz- er	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018			
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018			
Coaxial Cable	HU- BER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018			
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018			
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018			
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017			
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018			
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2017	02/10/2018			
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018			



11.5. Measurement Result:

FREQUENCY ERROR vs. VOLTAGE

Ref	Reference Frequency: GPRS 850 Mid Channel 836.6 MHz					
		Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency				
Vdc	Temperature		Delta (Hz)	Limit (Hz)		
Vuo	(°C)	(MHz)				
4.4	20	836600002	5	2091		
3.85	20	836599997	0	2091		
3.5	20	836599995	-2	2091		
2.5 (End point)	20	836600007	10	2091		

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz							
		Limit: +/- 2.5 ppm					
Power Supply	Environment	Frequency					
Vdc	Temperature (℃)	(MHz) Delta (Hz)		Limit (Hz)			
3.85	50	836600001	11	2091			
3.85	40	836600000	10	2091			
3.85	30	836599986	-4	2091			
3.85	20	836599990	0	2091			
3.85	10	836600015	25	2091			
3.85	0	836600008	18	2091			
3.85	-10	836599991	1	2091			
3.85	-20	836600008	18	2091			
3.85	-30	836600013	23	2091			



Ref	Reference Frequency: GPRS 1900 Mid Channel 1880 MHz					
		Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency				
Vdc	Temperature (℃)	(MHz) Delta (Hz)		Limit (Hz)		
4.4	20	1880000001	7	4700		
3.85	20	1879999994	0	4700		
3.5	20	1880000010	16	4700		
2.5 (End point)	20	1880000010	16	4700		

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz							
	L	.imit: +/- 2.5 ppm = H	Z				
Power Supply	Environment	- 1 5		Limit (Hz)			
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)			
3.85	50	1880000000	-6	4700			
3.85	40	1880000003	-3	4700			
3.85	30	1879999987	-19	4700			
3.85	20	1880000006	0	4700			
3.85	10	1880000003	-3	4700			
3.85	0	1879999985	-21	4700			
3.85	-10	1880000007	1	4700			
3.85	-20	1880000013	7	4700			
3.85	-30	188000007	1	4700			



Reference Frequency: WCDMA II Mid Channel 1880 MHz						
		Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency				
Vdc	Temperature (℃)	(MHz)	Delta (Hz)	Limit (Hz)		
4.4	20	1879999999	3	4700		
3.85	20	1879999996	0	4700		
3.5	20	1880000003	7	4700		
2.5 (End point)	20	1879999998	2	4700		

FREQUENCY ERROR vs. TEMPERATURE

R	Reference Frequency: WCDMA II Mid Channel 1880						
		Limit: +/- 2.5 ppm	ו				
Power Supply	Environment	Frequency					
Vdc	Temperature (°C)	(MHz) Delta (Hz)		Limit (Hz)			
3.85	50	1879999998	10	4700			
3.85	40	1879999998	10	4700			
3.85	30	1879999995	7	4700			
3.85	20	1879999988	0	4700			
3.85	10	1879999990	2	4700			
3.85	0	1880000007	19	4700			
3.85	-10	1879999985	-3	4700			
3.85	-20	1880000015	27	4700			
3.85	-30	1880000012	24	4700			



	Reference Frequency: WCDMA V Mid Channel 836.6 MHz							
	Limit: +/- 2.5 ppm							
Power Supply	Environment	Frequency						
Vdc	Temperature (℃)	(MHz)	Delta (Hz)	Limit (Hz)				
4.4	20	836599999	-15	2091				
3.85	20	836600014	0	2091				
3.5	20	836600006	-8	2091				
2.5 (End Point)	20	836600011	-3	2091				

FREQUENCY ERROR vs. TEMPERATURE

	Reference Frequency: WCDMA V Mid Channel 836.6 MHz								
	Limit: +/- 2.5 ppm								
Power Supply	Environment	Frequency	– Delta (Hz)	Limit (Hz)					
Vdc	Temperature (℃)	(MHz)	Della (HZ)						
3.85	50	836599995	7	2091					
3.85	40	836600010	22	2091					
3.85	30	836599988	0	2091					
3.85	20	836599988	0	2091					
3.85	10	836599993	5	2091					
3.85	0	836599994	6	2091					
3.85	-10	836600012	24	2091					
3.85	-20	836599991	3	2091					
3.85	-30	836600009	21	2091					



Reference	Frequency:	LTE B5 Mid Channel	836.5	
		Limit: +/- 2	.5 ppm	
Power Supply	Environment	Frequency		
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)
4.4	25	836.4999599	-55.5	2091
3.85	25	836.5000154	0	2091
3.5	25	836.4999728	-42.6	2091
2.5 (End Point)	25	836.4999708	-44.6	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference	ce Frequency:	LTE B5 Mid Channel 836		MHz 10M QPSK CH 20525				
	Limit: +/- 2.5 ppm							
Power Supply	Environment	Frequency		Limit (Hz)				
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)				
3.85	-30	836.4999596	-6.8	2091				
3.85	-20	836.4999645	-1.9	2091				
3.85	-10	836.5000224	56	2091				
3.85	0	836.4999728	6.4	2091				
3.85	10	836.5000175	51.1	2091				
3.85	20	836.4999664	0	2091				
3.85	30	836.4999633	-3.1	2091				
3.85	40	836.4999688	2.4	2091				
3.85	50	836.5000018	35.4	2091				



Reference	Reference Frequency: LTE B7 N Channe		2535.0	MHz 10M QPSK CH 21100
		Limit: +/- 2	2.5 ppm	
Power Supply	Environment	Frequency		
Vdc	Temperature (℃)	(MHz)	Delta (Hz)	Limit (Hz)
4.4	25	2535	-31.1	6338
3.85	25	2535	0	6338
3.5	25	2535	3.8	6338
2.5 (End Point)	25	2535	7.1	6338

FREQUENCY ERROR vs. TEMPERATURE

Reference	ce Frequency:	LTE B7 Mid Channel	2535.0	MHz 10M QPSK CH 21100					
	Limit: +/- 2.5 ppm								
Power Supply	Environment	Frequency							
Vdc	Temperature (℃)	(MHz)							
3.85	-30	2535	28.8	6338					
3.85	-20	2535	29.6	6338					
3.85	-10	2535	4.6	6338					
3.85	0	2535	0.8	6338					
3.85	10	2535	22.9	6338					
3.85	20	2535	0	6338					
3.85	30	2535	3.2	6338					
3.85	40	2535	0.9	6338					
3.85	50	2535	15.6	6338					



Reference	Reference Frequency:		2595.0	MHz 10M QPSK CH 38000
		Limit: +/- 2	2.5 ppm	
Power Supply	Environment	Frequency		
Vdc	Temperature (℃)	(MHz)	Delta (Hz)	Limit (Hz)
4.4	25	2595	-18.8	6488
3.85	25	2595	0	6488
3.5	25	2595	-25.8	6488
2.5 (End Point)	25	2595	-23.8	6488

FREQUENCY ERROR vs. TEMPERATURE

Reference	ce Frequency:	LTE B38 Mid Channel	2595.0	MHz 10M QPSK CH 38000					
	Limit: +/- 2.5 ppm								
Power Supply	Environment	t Frequency		Limit (Hz)					
Vdc	Temperature (°C)	(MHz)	Delta (Hz) Limit (Hz z)						
3.85	-30	2595	55.1	6488					
3.85	-20	2595	50.2	6488					
3.85	-10	2595	3.2	6488					
3.85	0	2595	36.9	6488					
3.85	10	2595	0.8	6488					
3.85	20	2595	0	6488					
3.85	30	2595	36.4	6488					
3.85	40	2595	10.3	6488					
3.85	50	2595	41.8	6488					

Note: The battery is rated 3.85V dc.

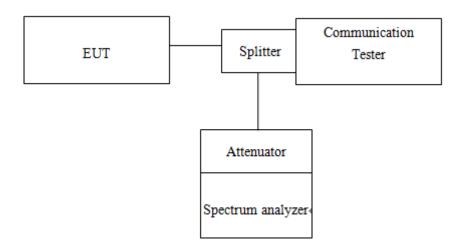


12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

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

12.2. Test SET-UP



12.3. Measurement Procedure

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

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12.4. Measurement Equipment Used

Conduc	ted Emission (n	neasured at a	antenna port)	Test Site	
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyz- er	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HU- BER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2017	02/10/2018
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018



12.5. Measurement Result

Tabular Results:

Frog			Peak-to-Average			
Freq. (MHz)	СН	GSM	GPRS	EDGE		
		1900	1900	1900		
1850.2	9296	9.29	9.77	11.64		
1880.0	9400	9.91	9.66	11.44		
1909.8	9538	8.76	9.80	11.44		

Freq.	СН	Peak-to-Average				
(MHz)	СП	WCDMA II	HSDPA II	HSUPA II		
1850.2	9262	2.89	3.69	3.75		
1880.0	9400	2.94	3.43	3.63		
1909.8	9538	2.89	3.74	3.61		

LTE BAND 5									
Ch	Channel bandwidth: 1.4MHz				hannel ban	dwidth: 3MH	lz		
Freq.	СН		o-Average tio (dB) Freq. CH		Freq. CH Ratio (dB)		0		
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT		
824.7	20407	5.56	13	825.5	20415	6.26	13		
836.5	20525	5.90	13	836.5	20525	6.31	13		
848.3	20643	5.47	13	847.5	20635	6.06	13		

LTE BAND 5									
C	hannel ban	dwidth: 5MH	lz	Cl	nannel band	width: 10M	Hz		
Freq.	СН	Peak-to-Average Ratio (dB)		Freq.	СН	Peak-to-Average CH Ratio (dB)			
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT		
826.5	20425	6.35	13	829.0	20450	6.17	13		
836.5	20525	6.25	13	836.5	20525	6.26	13		
846.5	20625	6.12	13	844.0	20600	6.14	13		



LTE BAND 7									
Channel bandwidth: 5MHz				Cl	nannel band	lwidth: 10M	Hz		
Freq.	СН	Peak-to-Average Ratio (dB)		Freq.	СН	Peak-to-Average Ratio (dB)			
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT		
2502.5	20775	5.76	13	2505.0	20800	5.85	13		
2535.0	21100	5.54	13	2535.0	21100	5.67	13		
2567.5	21375	5.51	13	2565.0	21350	5.74	13		

LTE BAND 7									
Cł	nannel band	width: 15M	Hz	Channel bandwidth: 20MHz					
Freq.	СН	Peak-to-Average Ratio (dB)		Freq.	СН	Peak-to-Average Ratio (dB)			
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT		
2507.5	20825	6.13	13	2510.0	20850	6.64	13		
2535.0	21100	6.00	13	2535.0	21100	6.53	13		

LTE BAND 38									
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz					
Freq.	СН	Peak-to-Average CH Ratio (dB)		Freq.	СН	Peak-to-Average Ratio (dB)			
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT		
2572.5	37775	8.26	13	2575.0	37800	9.82	13		
2595.0	38000	8.62	13	2595.0	38000	8.20	13		
2617.5	38225	7.96	13	2615.0	38200	9.14	13		

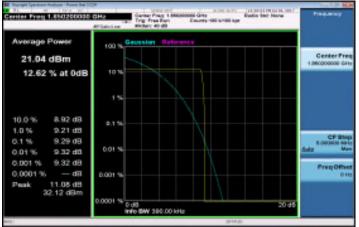
LTE BAND 38									
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz					
Freq.	СН	Peak-to-Average Ratio (dB)		Freq.	СН	Peak-to-Average Ratio (dB)			
(MHz)		16QAM	LIMIT	(MHz)		16QAM	LIMIT		
2577.5	37825	9.71	13	2580.0	37850	8.58	13		
2595.0	38000	9.81	13	2595.0	38000	8.43	13		
2612.5	38175	9.12	13	2610.0	38150	9.44	13		

Measurement Results:

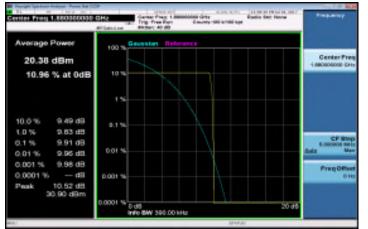
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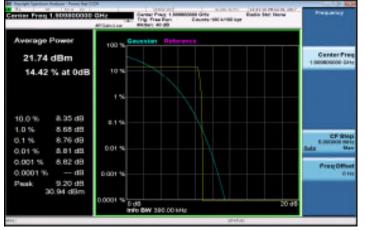
GSM 1900 Channel Low



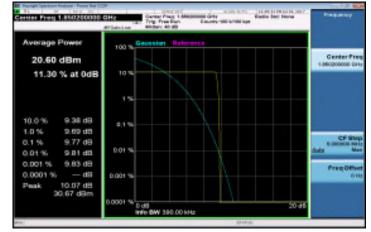
GSM 1900 Channel Mid



GSM 1900 Channel High



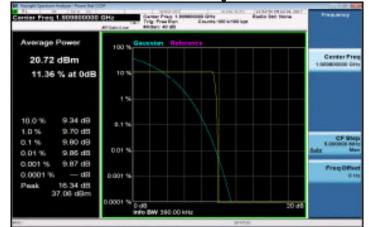
GPRS 1900 Channel Low



GPRS 1900 Channel Mid



GPRS 1900 Channel High



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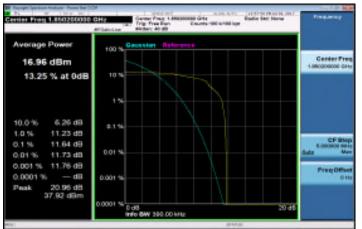
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EDGE 1900 Channel Low

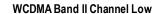


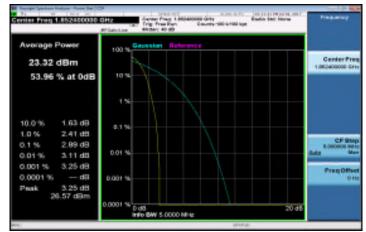
EDGE 1900 Channel Mid



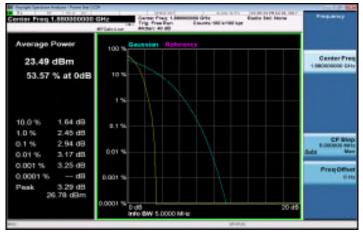
EDGE 1900 Channel High



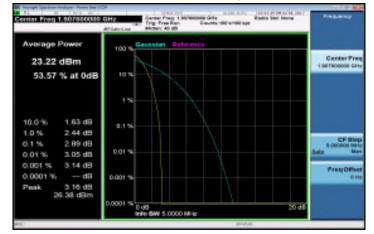




WCDMA Band II Channel Mid



WCDMA Band II Channel High



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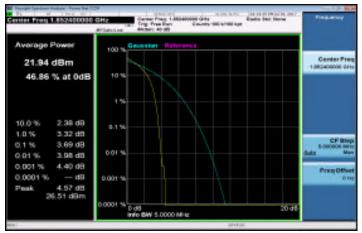
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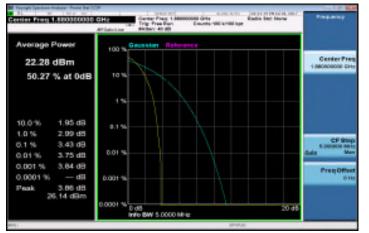
t (886-2) 2299-3279 f (886-2) 2298-0488 台灣檢驗科技股份有限公司 www.tw.sgs.com



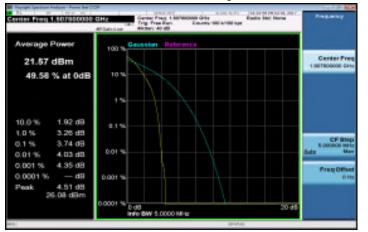
HSDPA Band II Channel Low



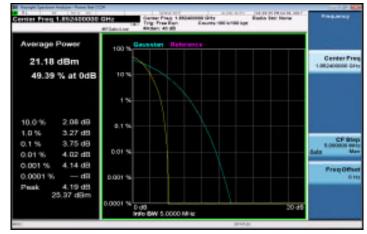
HSDPA Band II Channel Mid



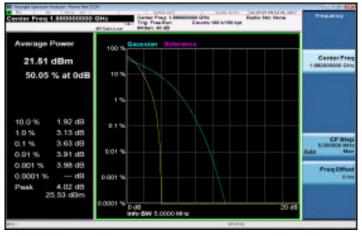
HSDPA Band II Channel High



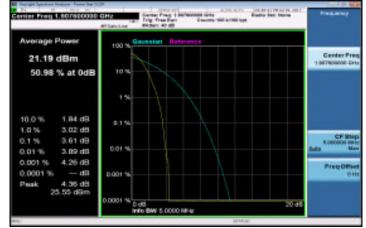
HSUPA Band II Channel Low



HSUPA Band II Channel Mid



HSUPA Band II Channel High



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.

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