

Appendix A

Channel Power Measurement

According to CFR 47 (FCC) part 2.1046 & 22.913



Channel 1013

TM1:

Measurement/Instrument Screen										
Control	Maximum/Minimum Power							Call Params		
Max/Min Power Setup ▾	Maximum Power23.81dBm Minimum Power-63.14dBm/1.23 MHz Single							Cell 1 Power	-25.00	dBm/1.23 MHz
Maximum Power Setup ▾								Cell Band	US Cellular	
Minimum Power Setup ▾								Channel	1013	
								Protocol Rev	6 (IS-2000-0)	
								Radio Config	(Fud1, Rvs1)	
									S02 (Loopback)	
								FCH Service Option Setup ▾		
1 of 2				Active Cell Connected			Sys Type: IS-2000			
							Logging: No Conn.			
				IntRef	Offset					1 of 4



TM3:

Measurement/Instrument Screen										
Control		Maximum/Minimum Power						Call Parm		
Max/Min Power Setup ▾		Maximum Power 23.83 dBm Minimum Power -63.03 dBm/1.23 MHz Single						Cell 1 Power		
								-25.00		
Maximum Power Setup ▾								dBm/1.23 MHz		
								Cell Band		
								US Cellular		
Minimum Power Setup ▾								Channel		
								1013		
								Protocol Rev		
								6 (IS-2000-0)		
								Radio Config		
								(Fud3, Rvs3)		
								S055 (Loopback)		
								FCH Service Option Setup ▾		
				Active Cell		Sys Type: IS-2000				
		Connected		Logging: No Conn.						
1 of 2					IntRef	Offset				1 of 4



Channel 283

TM1:

Measurement/Instrument Screen												
Control		Maximum/Minimum Power								Call Parm		
Max/Min Power Setup ▾		Maximum Power 23.55 dBm Minimum Power -61.78 dBm/1.23 MHz Single								Cell 1 Power		
										-25.00		
Maximum Power Setup ▾										dBm/1.23 MHz		
										Cell Band		
										US Cellular		
Minimum Power Setup ▾										Channel		
										283		
1 of 2										Protocol Rev		
										6 (IS-2000-0)		
										Radio Config		
										(Fud1, Rvs1)		
										S02 (Loopback)		
										FCH Service Option Setup ▾		
				Active Cell Connected				Sys Type: IS-2000				
				Logging: No Conn.								
1 of 2					IntRef	Offset					1 of 4	



TM3:

Measurement/Instrument Screen												
Control		Maximum/Minimum Power								Call Parm		
Max/Min Power Setup ▾		Maximum Power 23.69 dBm Minimum Power -61.43 dBm/1.23 MHz Single								Cell 1 Power		
										-25.00		
Maximum Power Setup ▾										dBm/1.23 MHz		
										Cell Band		
										US Cellular		
Minimum Power Setup ▾										Channel		
										283		
										Protocol Rev		
										6 (IS-2000-0)		
										Radio Config		
										(Fud3, Rvs3)		
										S055 (Loopback)		
										FCH Service Option Setup ▾		
				Active Cell Connected				Sys Type: IS-2000				
								Logging: No Conn.				
1 of 2					IntRef	Offset					1 of 4	



Channel 777

TM1:

Measurement/Instrument Screen											
Control		Maximum/Minimum Power							Call Params		
Max/Min Power Setup ▾		Maximum Power 23.89 dBm Minimum Power -60.92 dBm/1.23 MHz Single							Cell 1 Power		
									-25.00		
Maximum Power Setup ▾									Cell Band		
									US Cellular		
Minimum Power Setup ▾									Channel		
									777		
									Protocol Rev		
									6 (IS-2000-0)		
									Radio Config		
									(Fud1, Rvs1)		
									S02 (Loopback)		
									FCH Service Option Setup ▾		
				Active Cell Connected			Sys Type: IS-2000				
							Logging: No Conn.				
1 of 2					IntRef	Offset					1 of 4



TM3:

Measurement/Instrument Screen										
Control		Maximum/Minimum Power						Call Params		
Max/Min Power Setup ▾		Maximum Power 23.93 dBm Minimum Power -60.76 dBm/1.23 MHz Single						Cell 1 Power		
								-25.00		
Maximum Power Setup ▾								dBm/1.23 MHz		
								Cell Band		
								US Cellular		
Minimum Power Setup ▾								Channel		
								777		
								Protocol Rev		
								6 (IS-2000-0)		
								Radio Config		
								(Fud3, Rvs3)		
								S055 (Loopback)		
								FCH Service Option Setup ▾		
				Active Cell		Sys Type: IS-2000				
		Connected		Logging: No Conn.						
1 of 2					IntRef	Offset				1 of 4

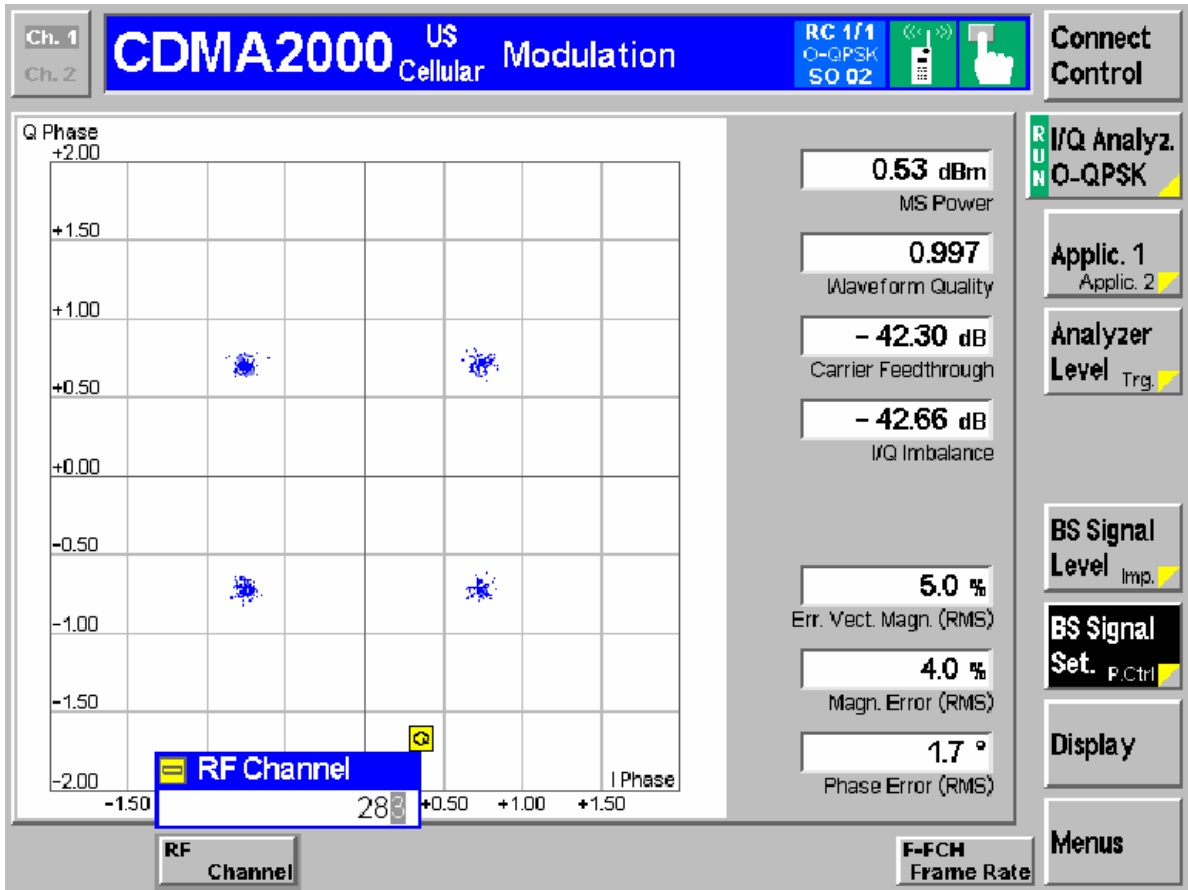
Appendix B

Modulation Characteristic Measurement

According to CFR 47 (FCC) part 2.1047 & 22.915

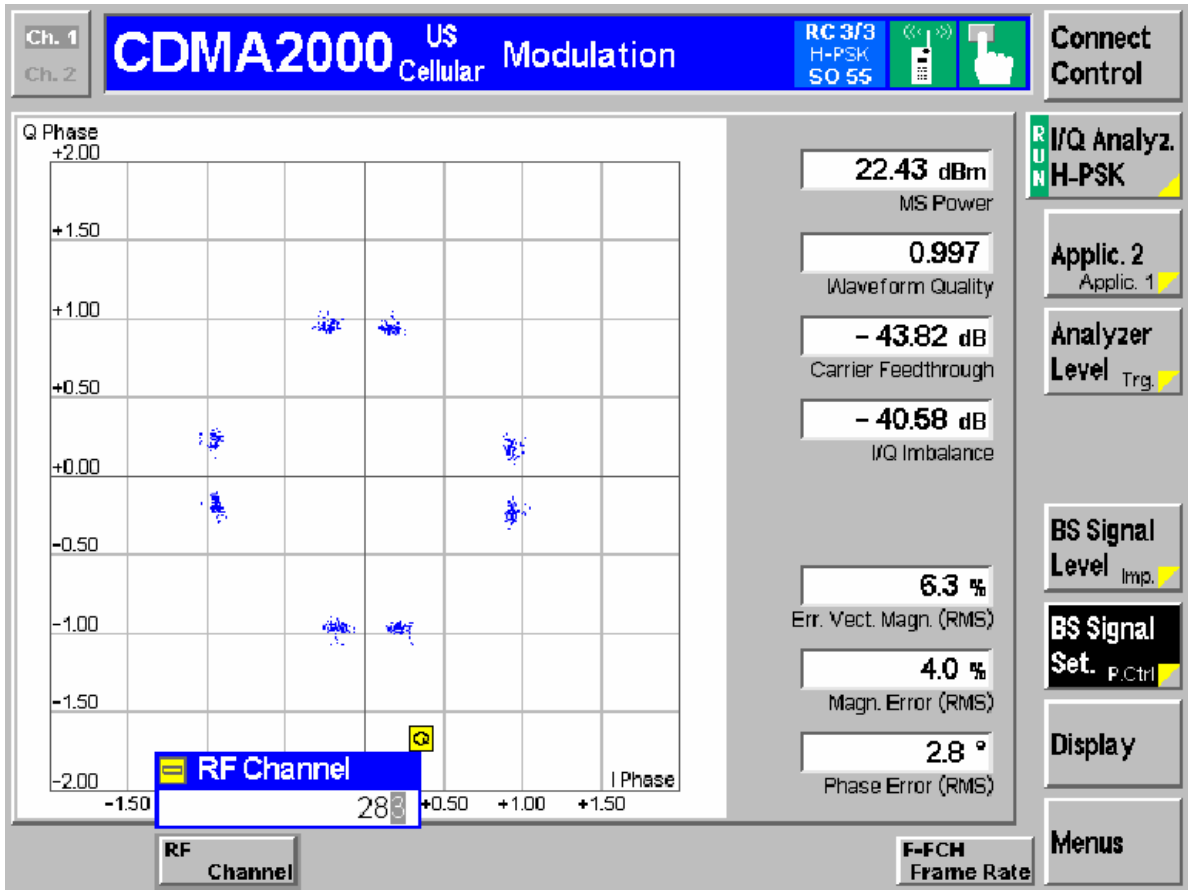


Channel 283 (TM1)





Channel 283 (TM3)

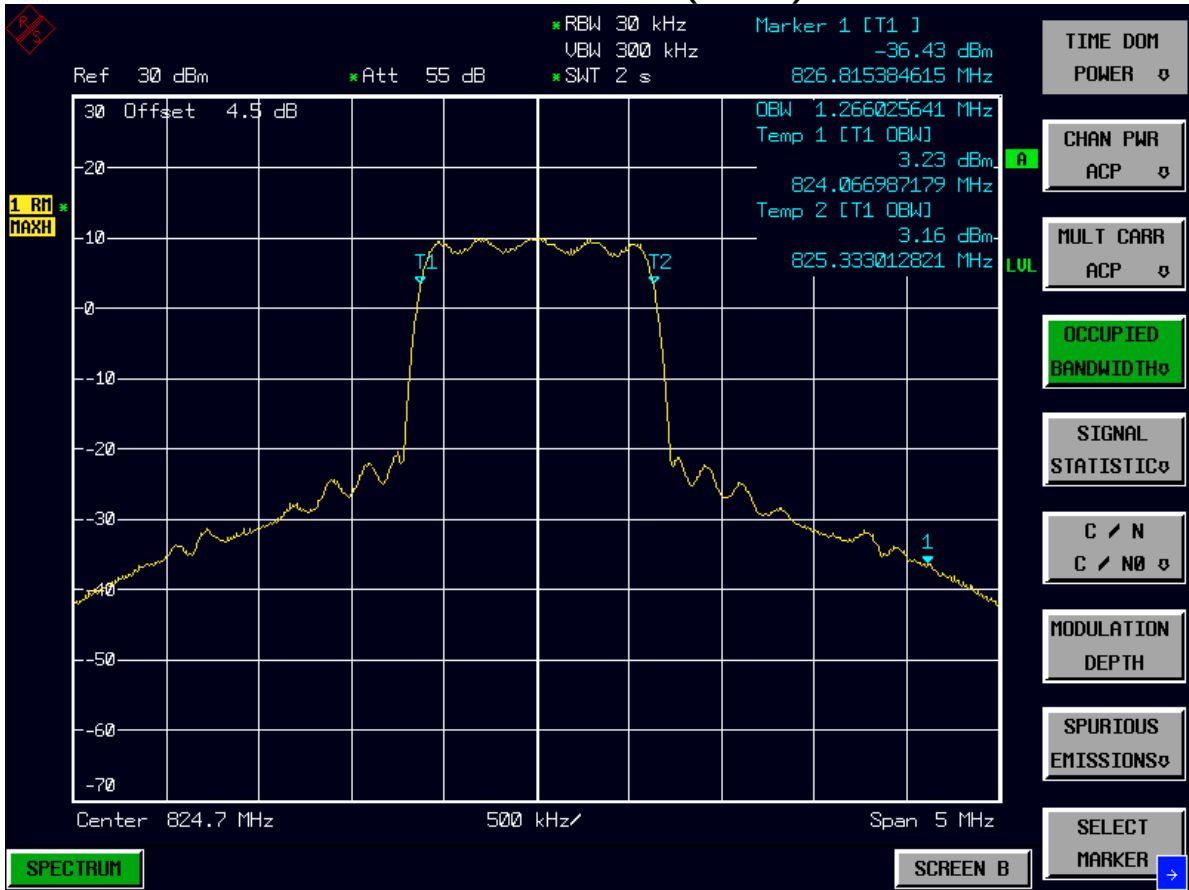


Appendix C

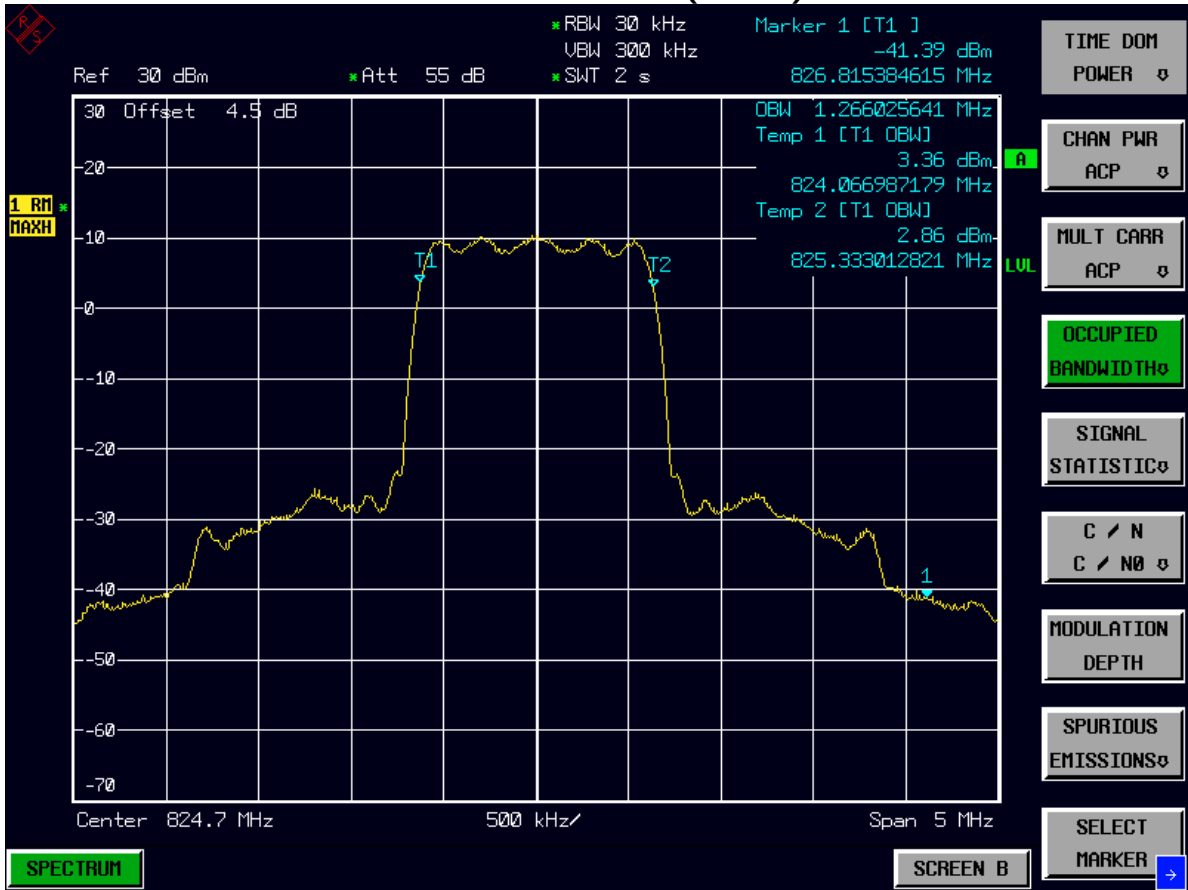
Occupied Bandwidth Measurement

According to CFR 47 (FCC) part 2.1049& 22.917

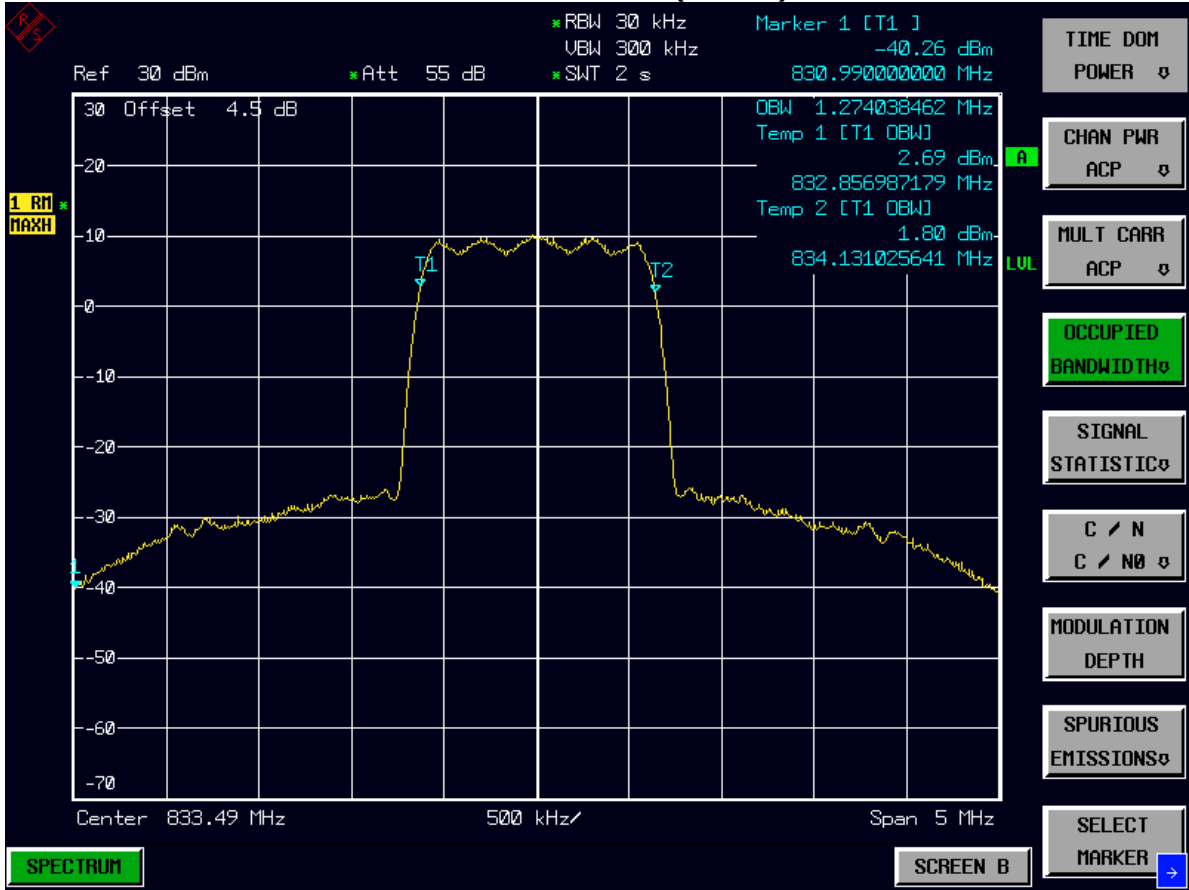
Channel 1013(TM1)



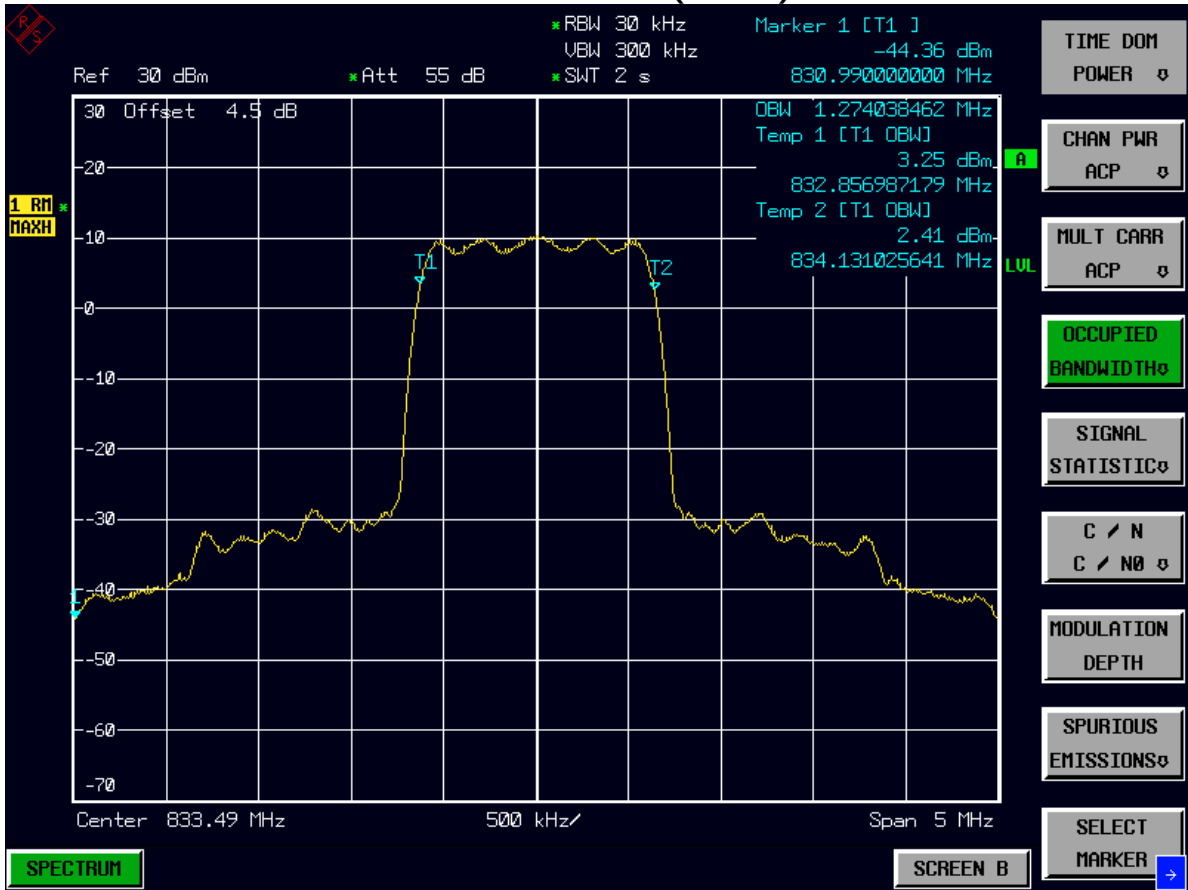
Channel 1013(TM3)



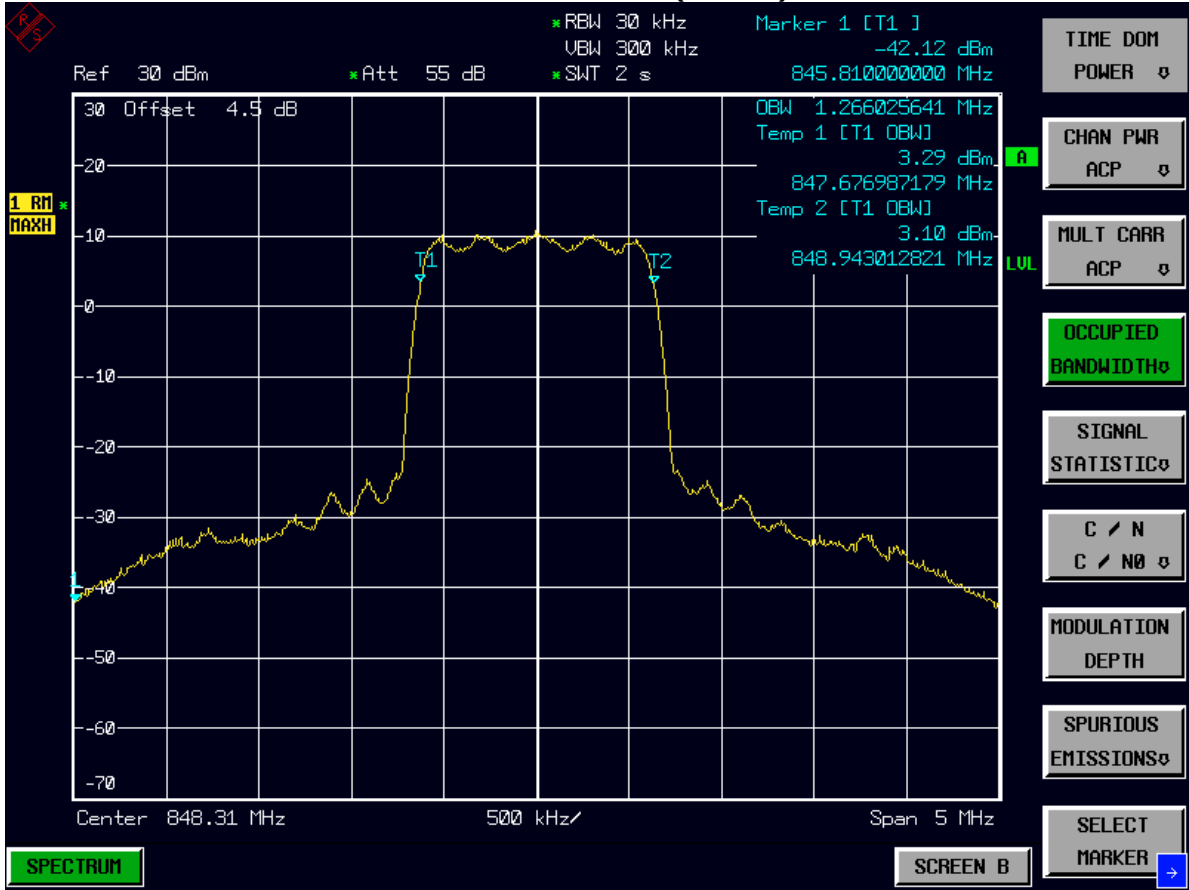
Channel 283(TM1)



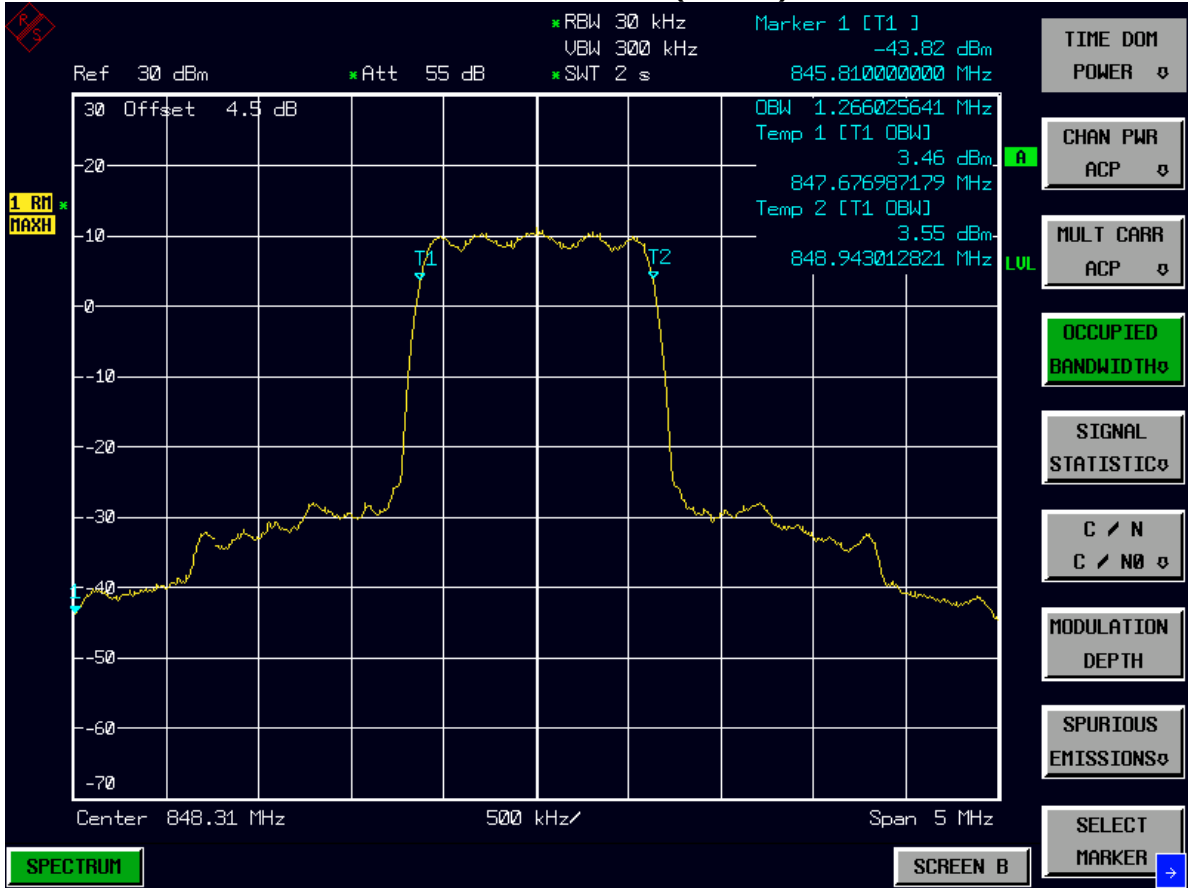
Channel 283(TM3)



Channel 777(TM1)



Channel 777(TM3)



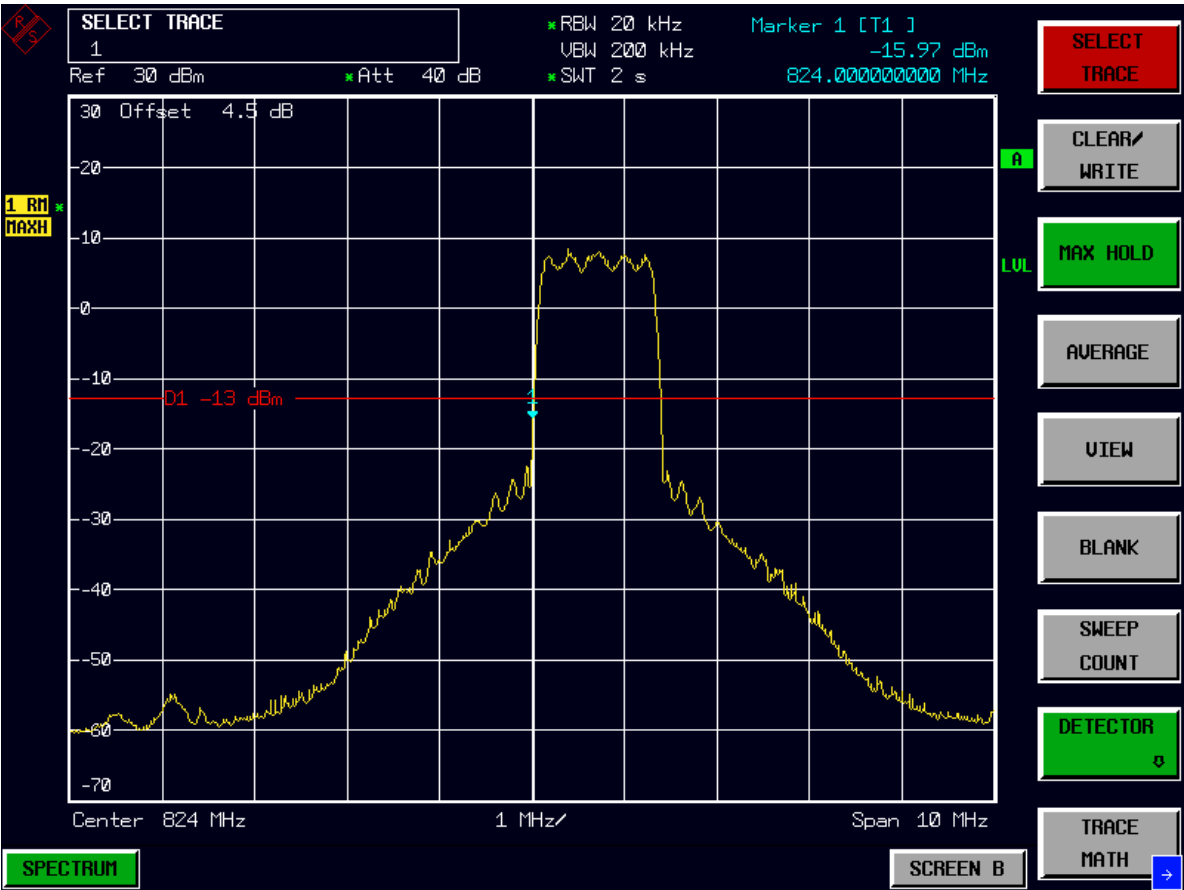
Appendix D

Band Edges compliance

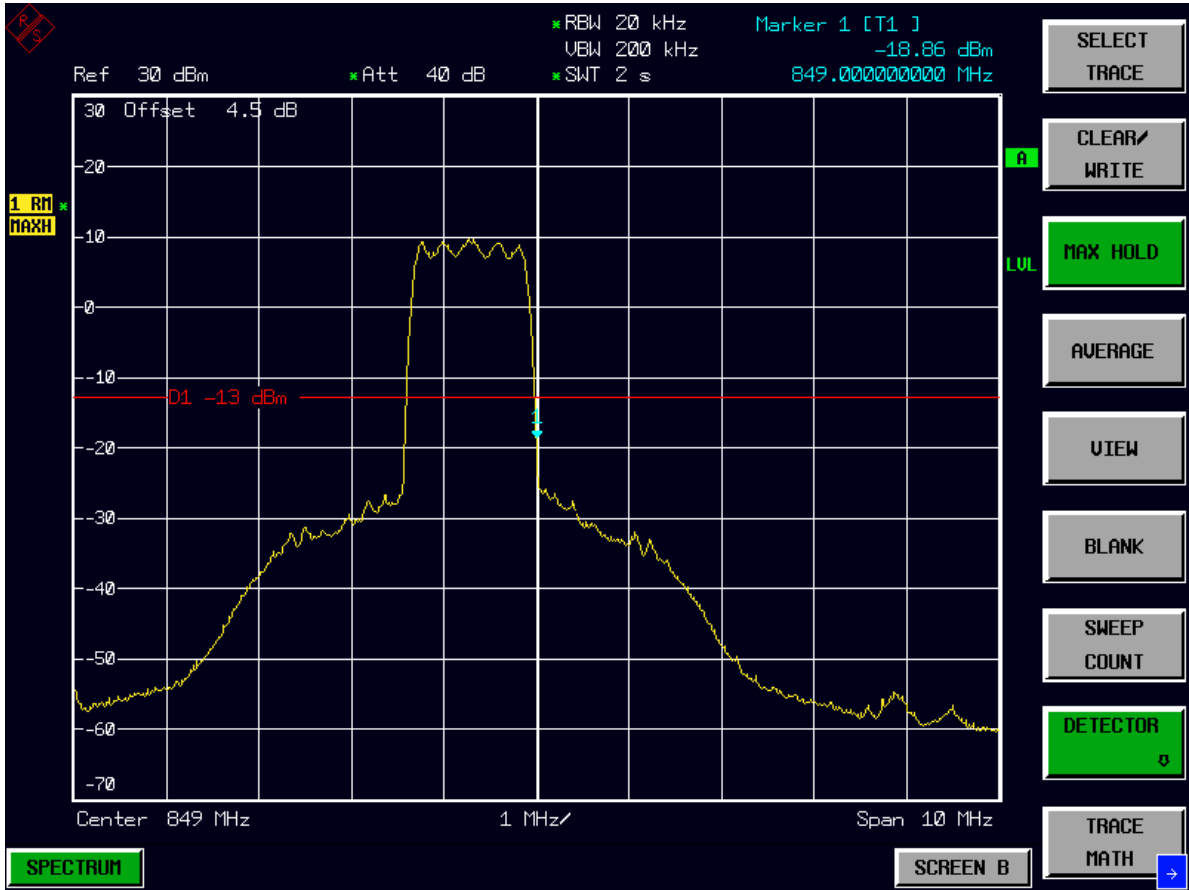
According to CFR 47 (FCC) part 2.1051 & 22.917(e)

TM1

Left Edge (824 MHz)
Channel 1013

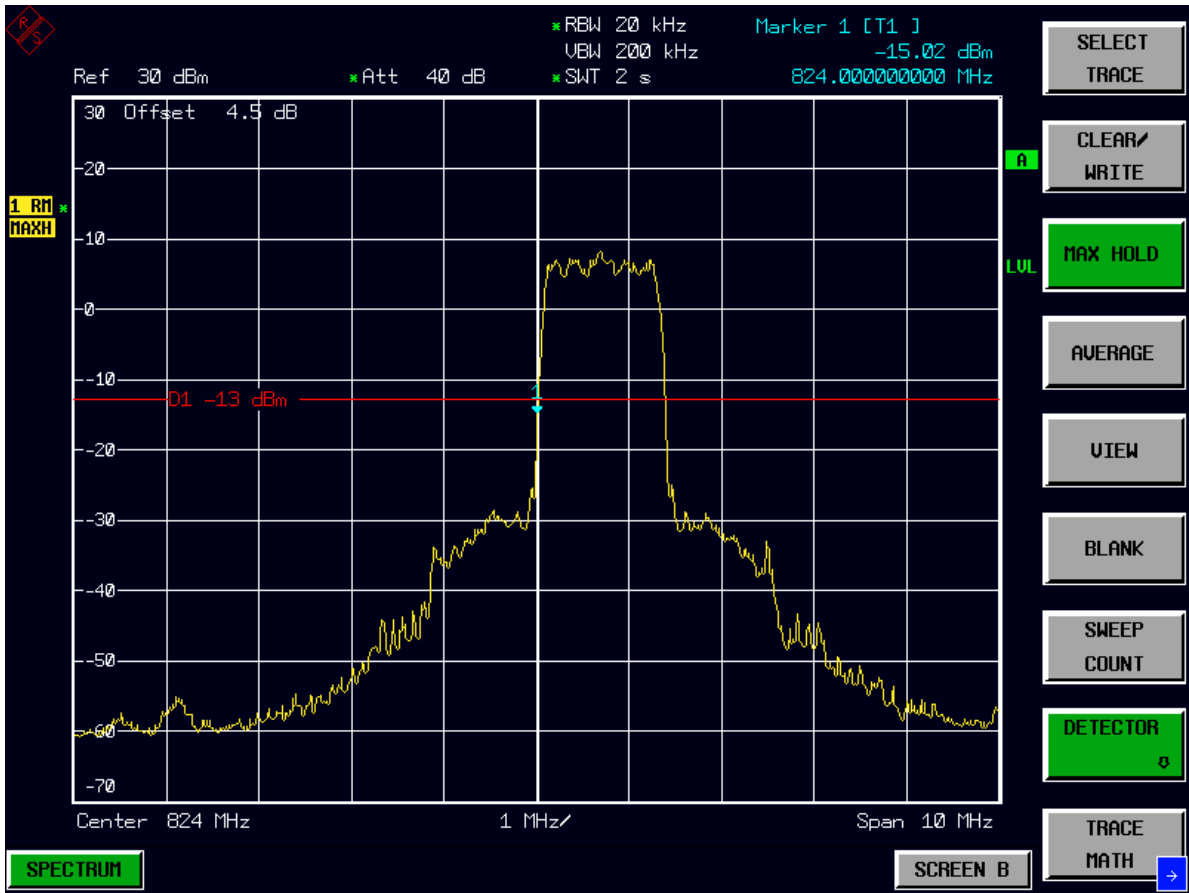


Right Edge (849MHz)
Channel 777

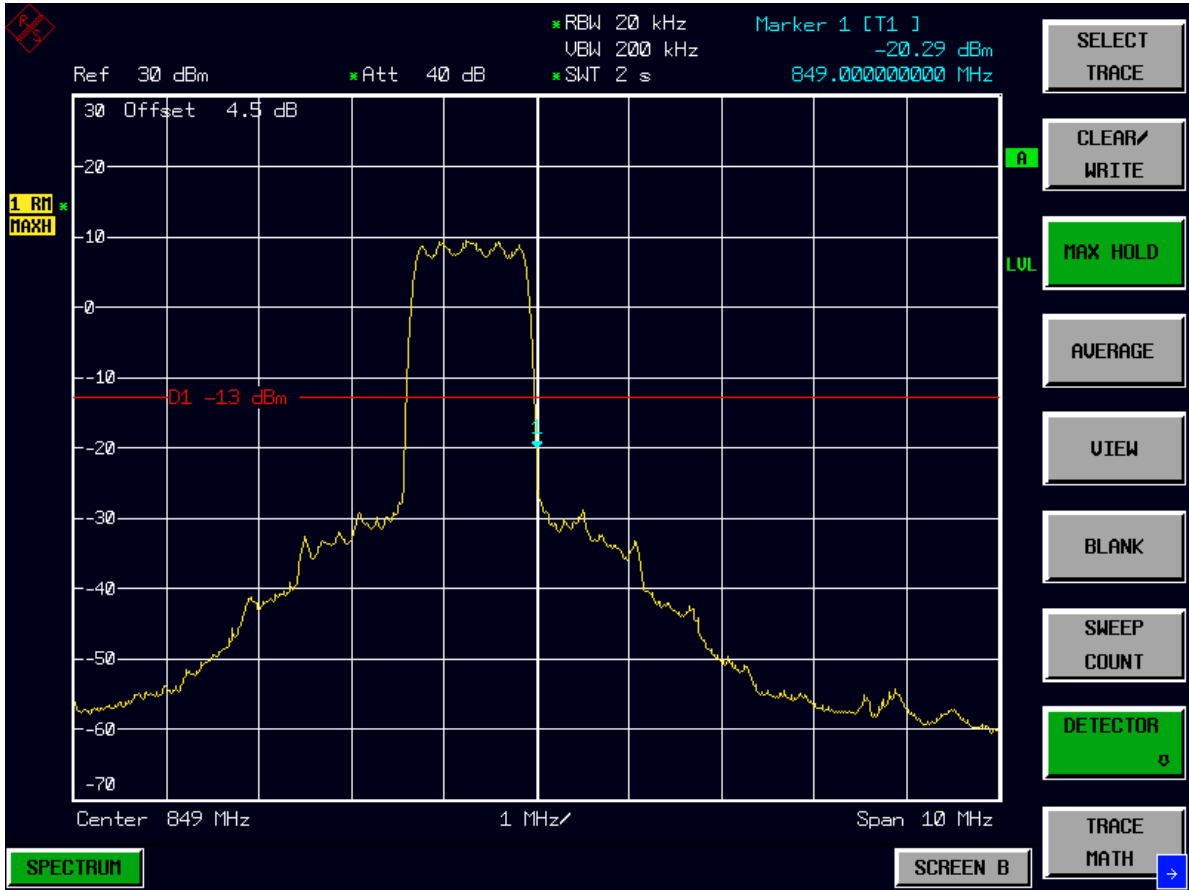


TM3

Left Edge (824 MHz)
Channel 1013



Right Edge (849MHz)
Channel 777

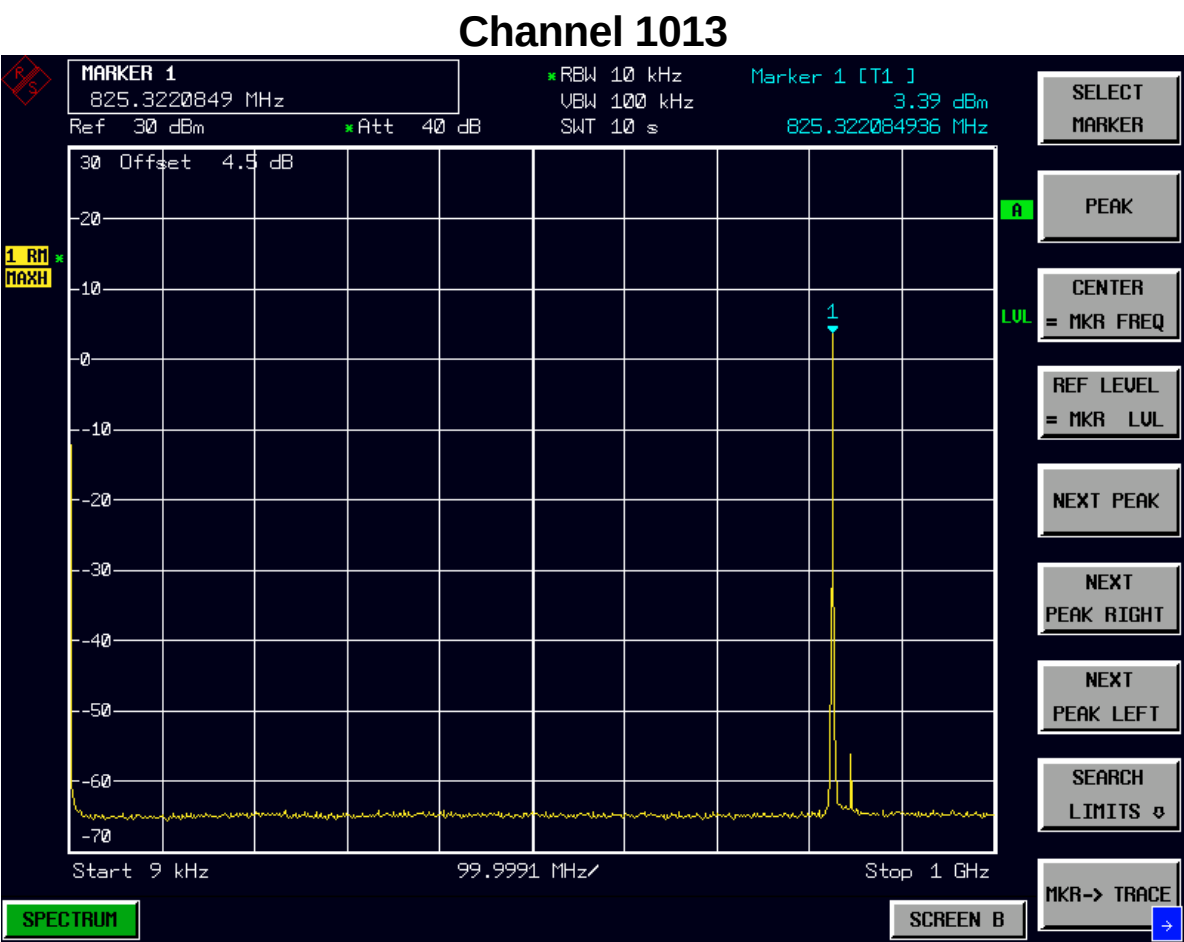


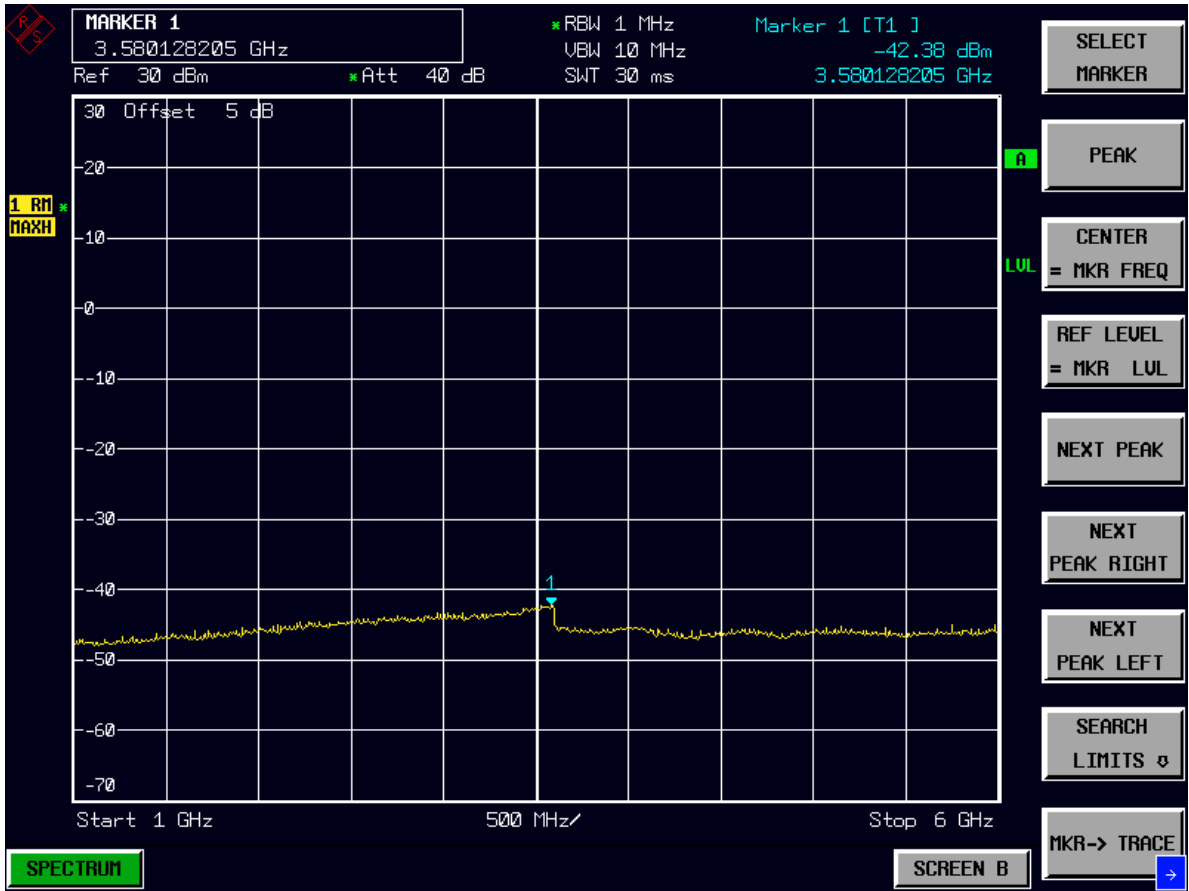
Appendix E

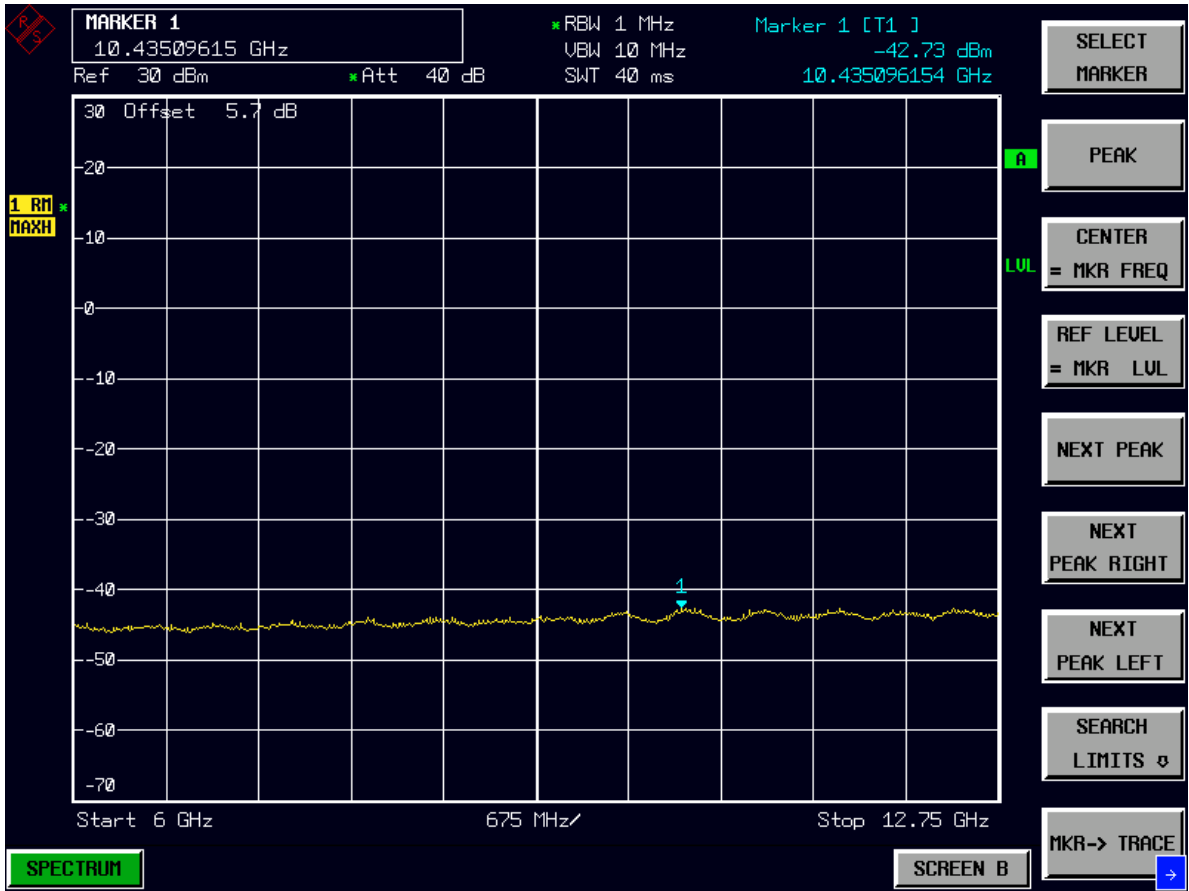
Spurious Emission at Antenna Terminal

According to CFR 47 (FCC) part 2.1051 & 22.917(e)

1.1 TM1

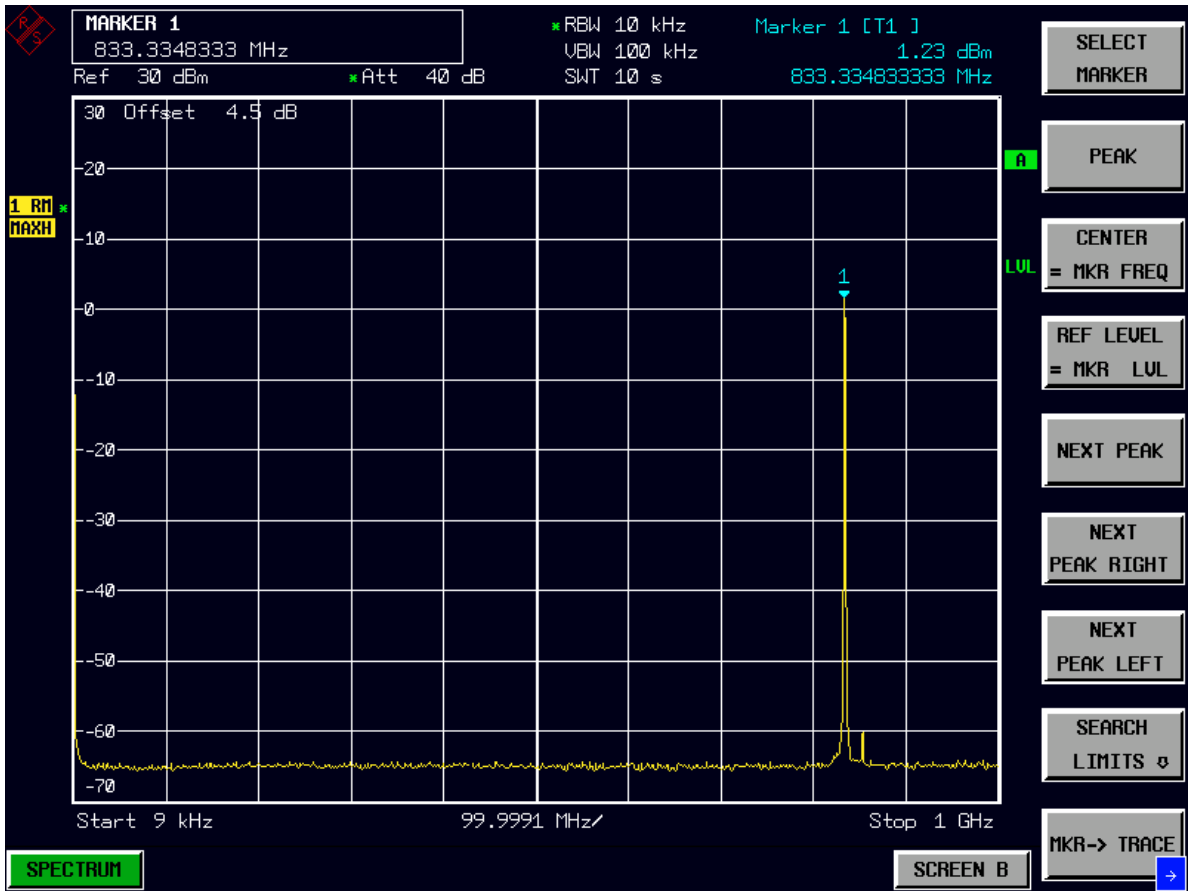


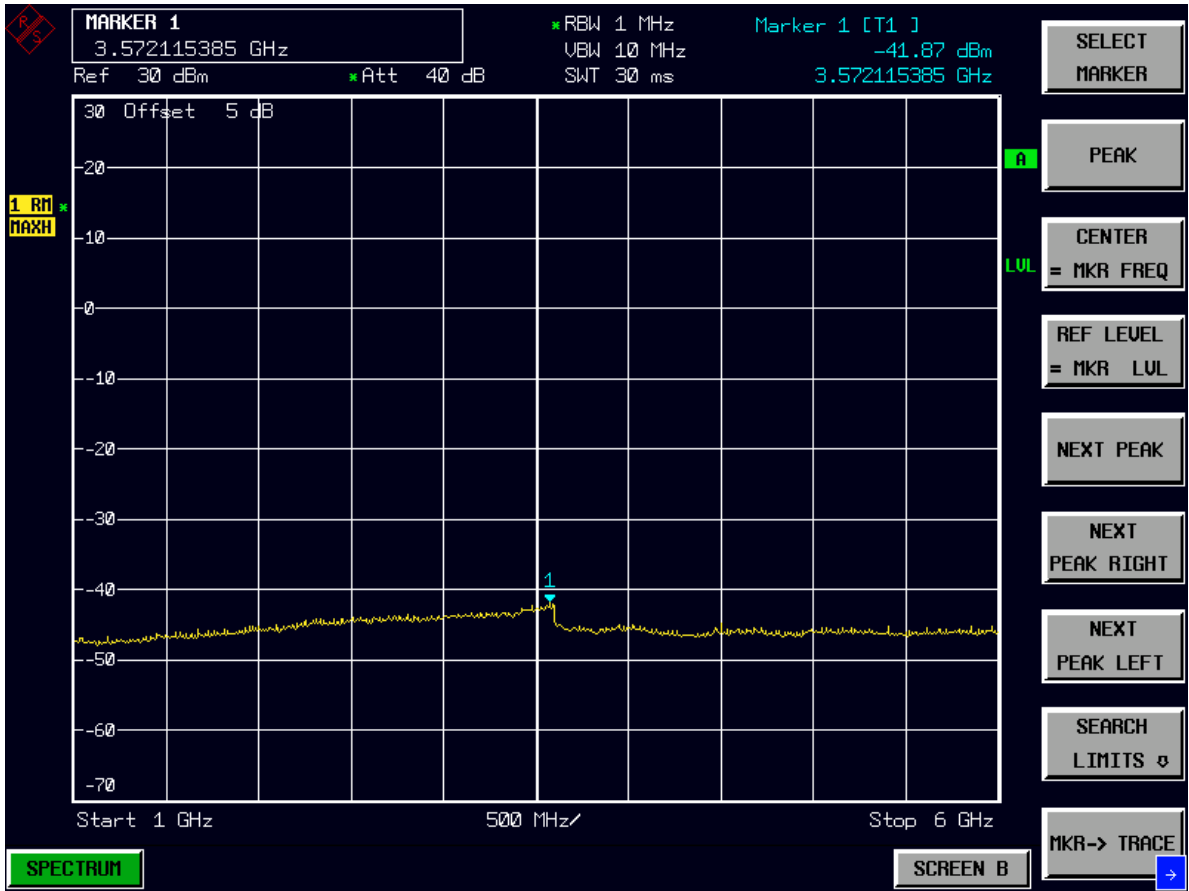


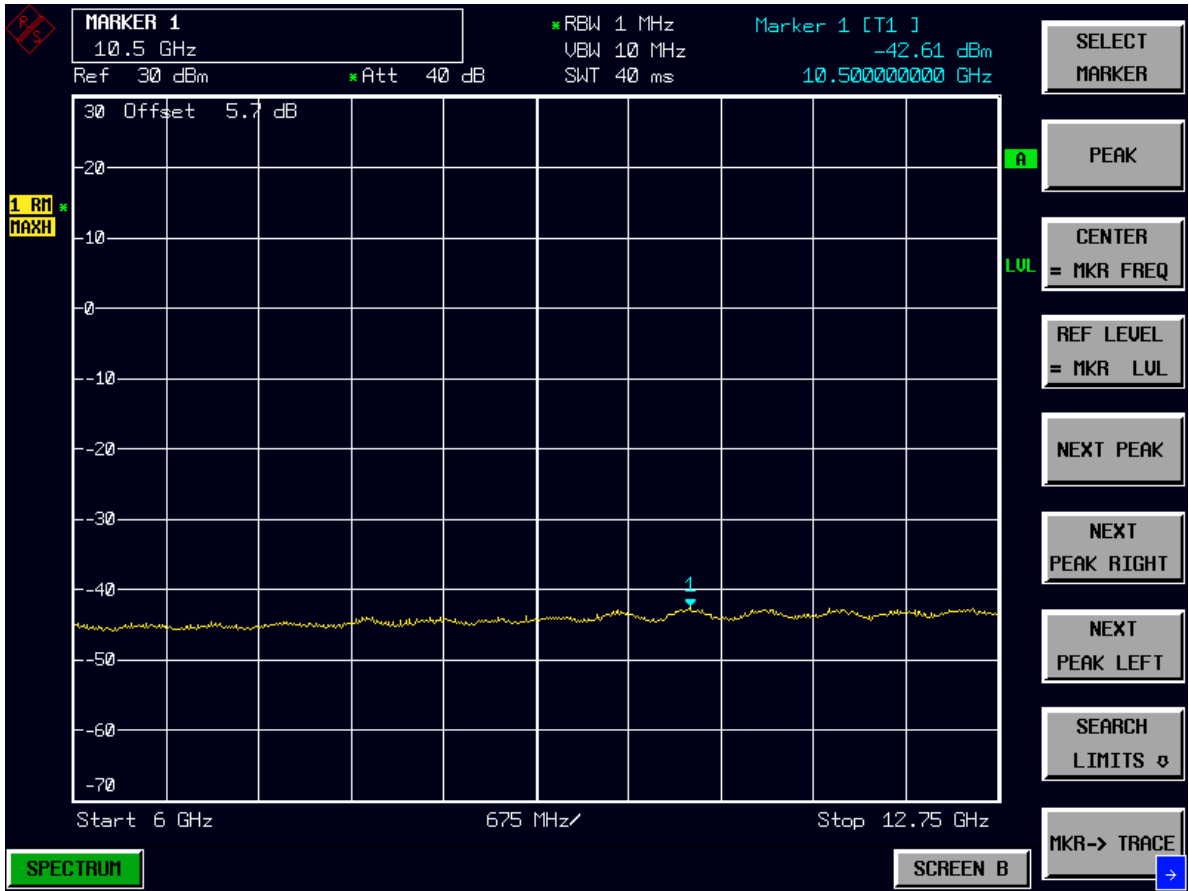




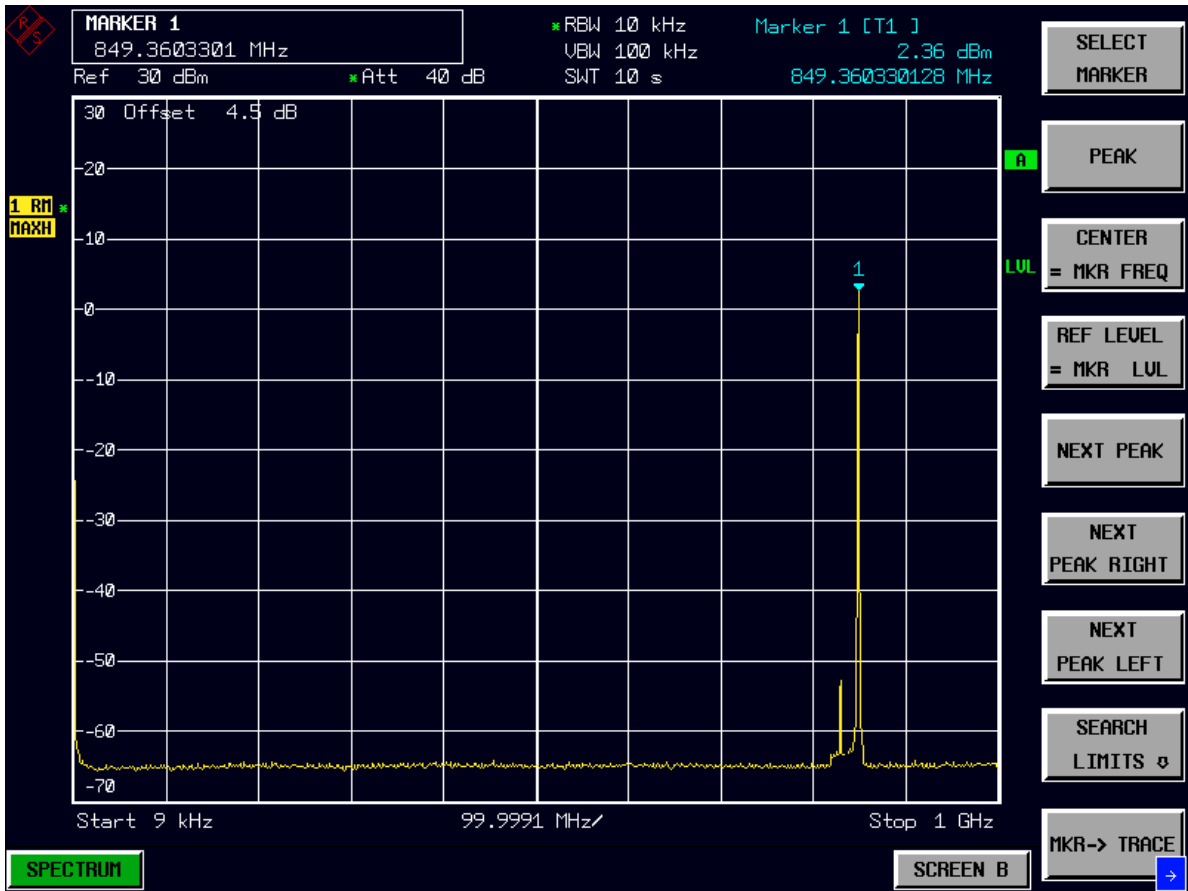
Channel 283

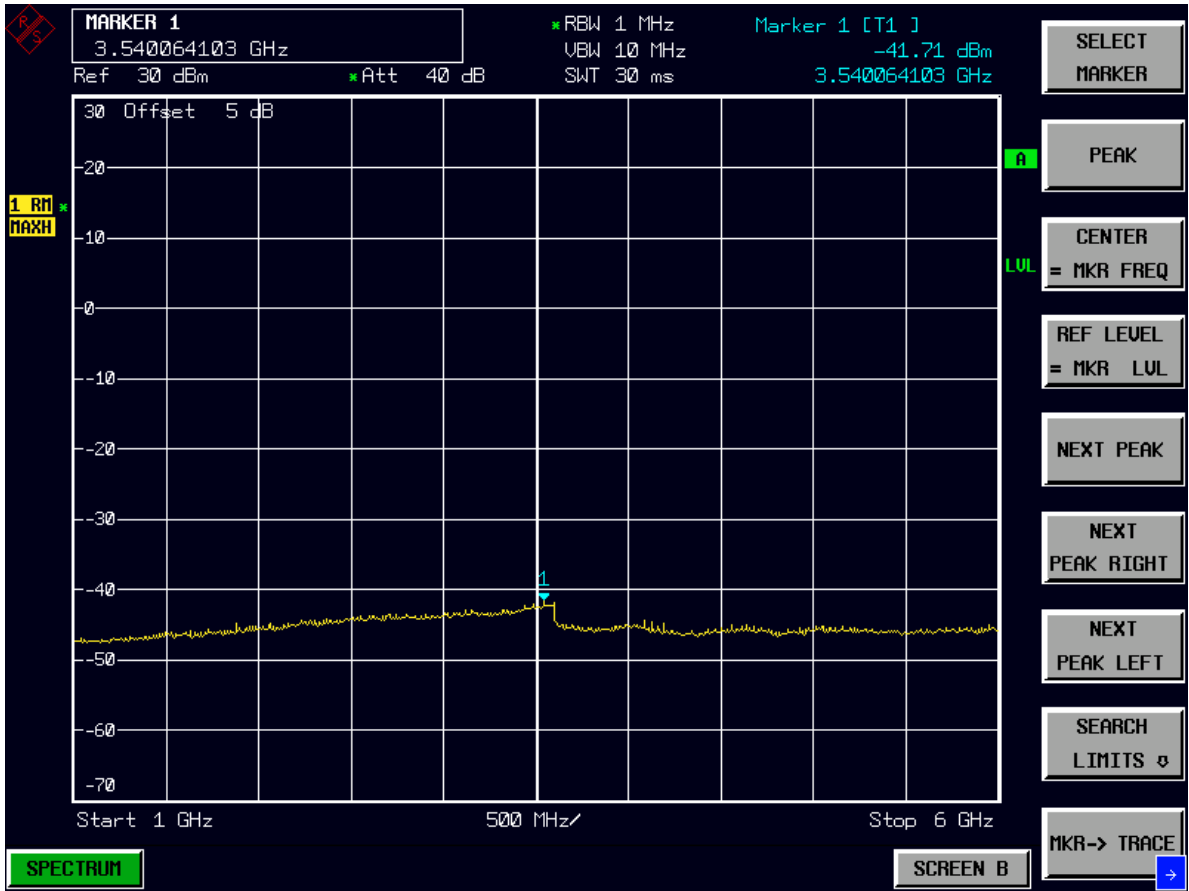


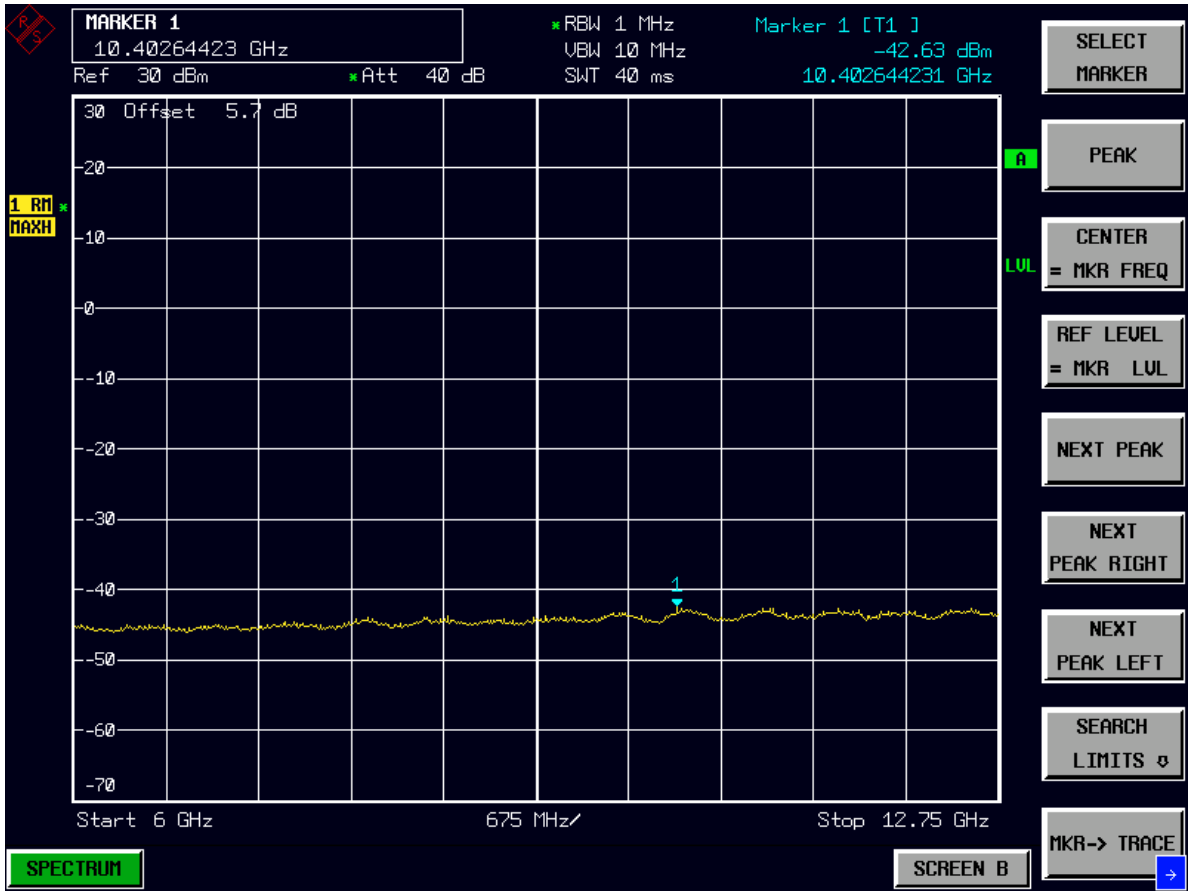




Channel 777

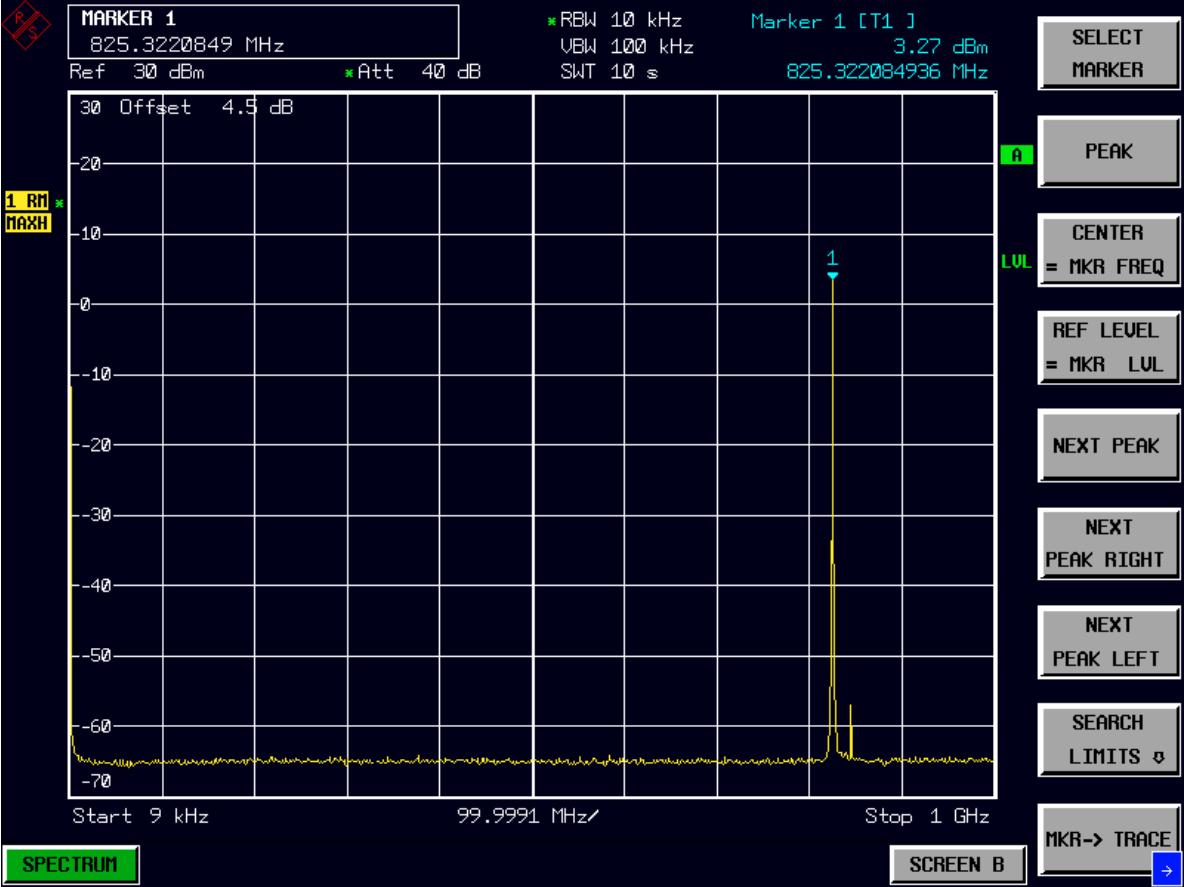


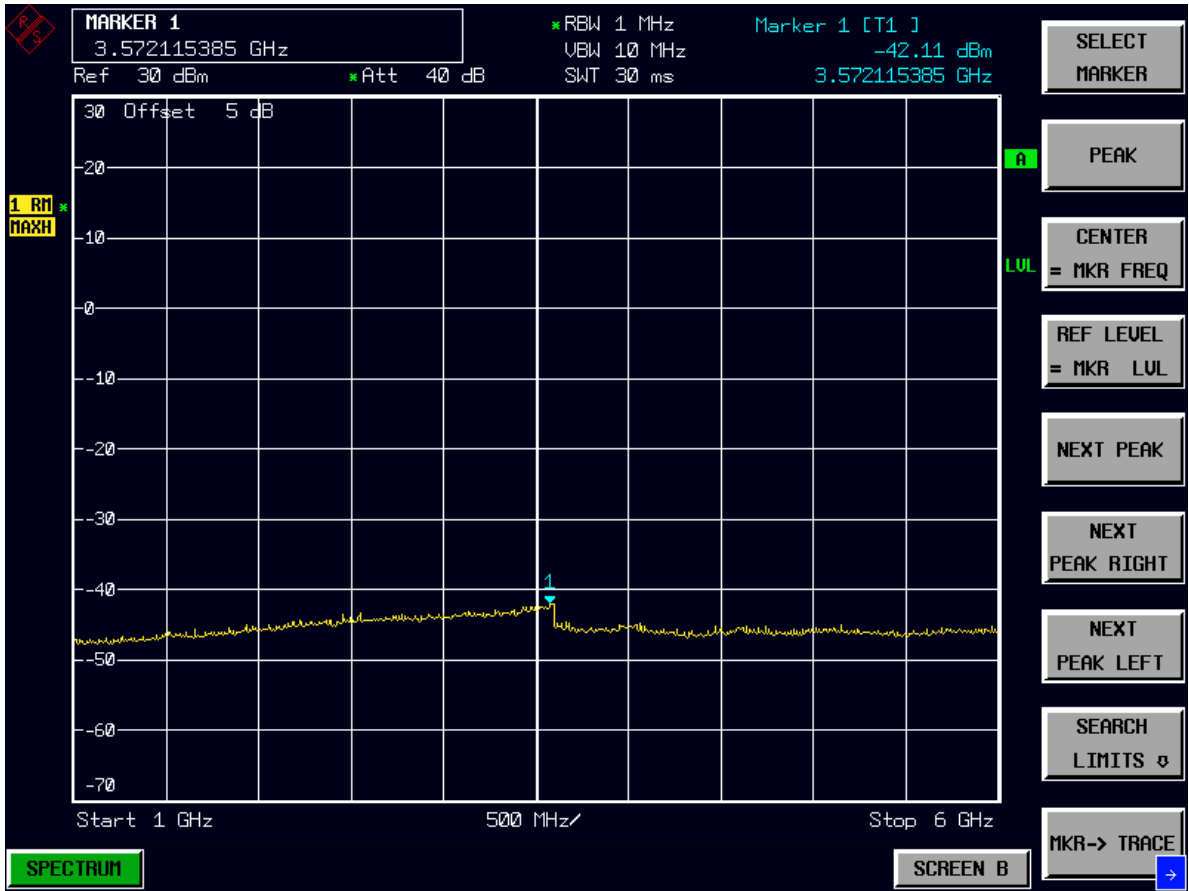


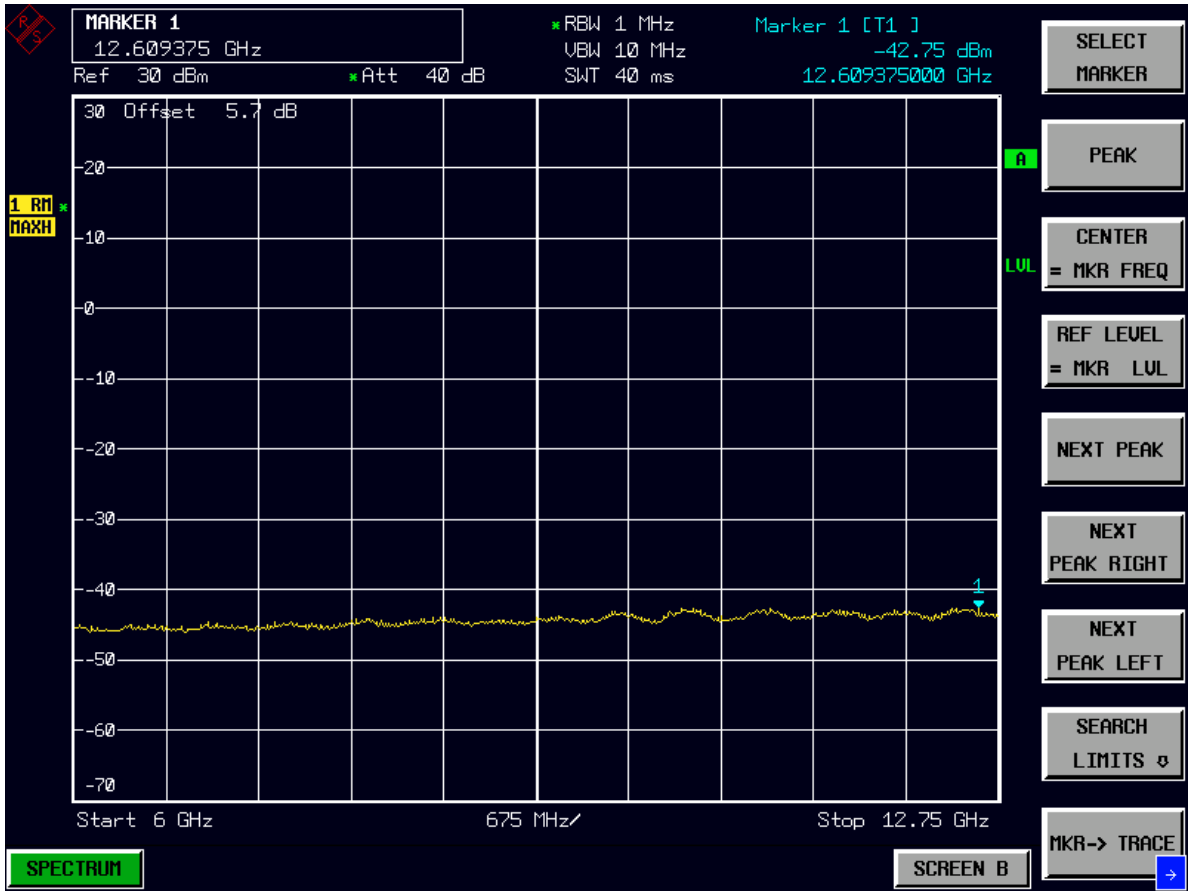


TM3

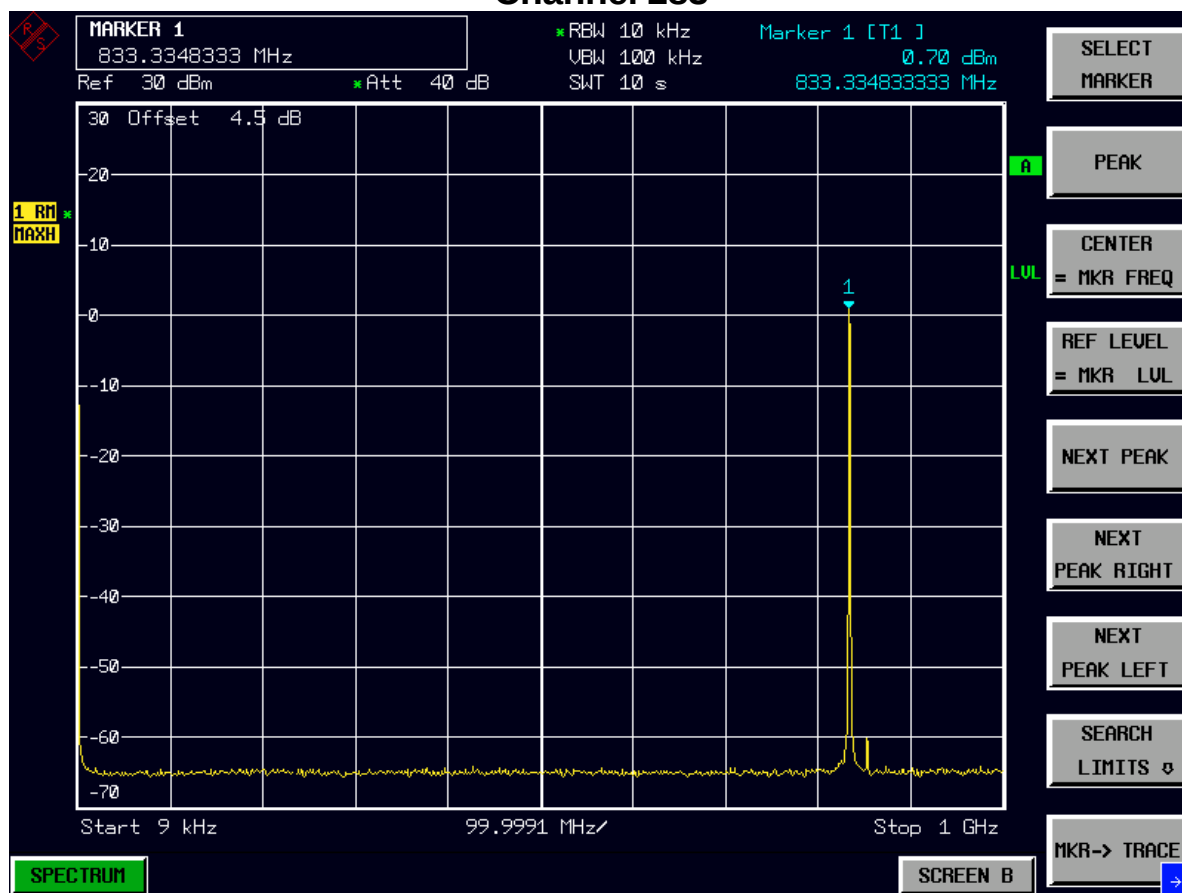
Channel 1013

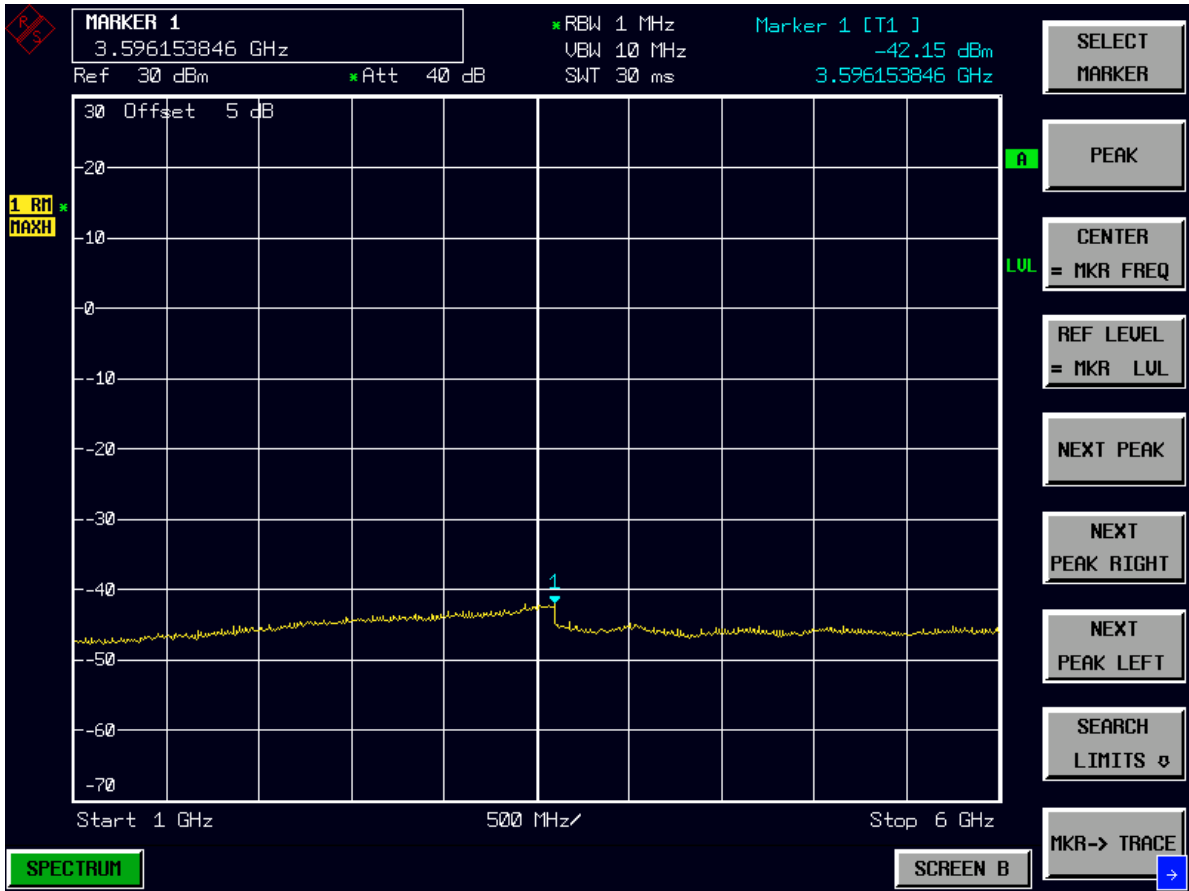


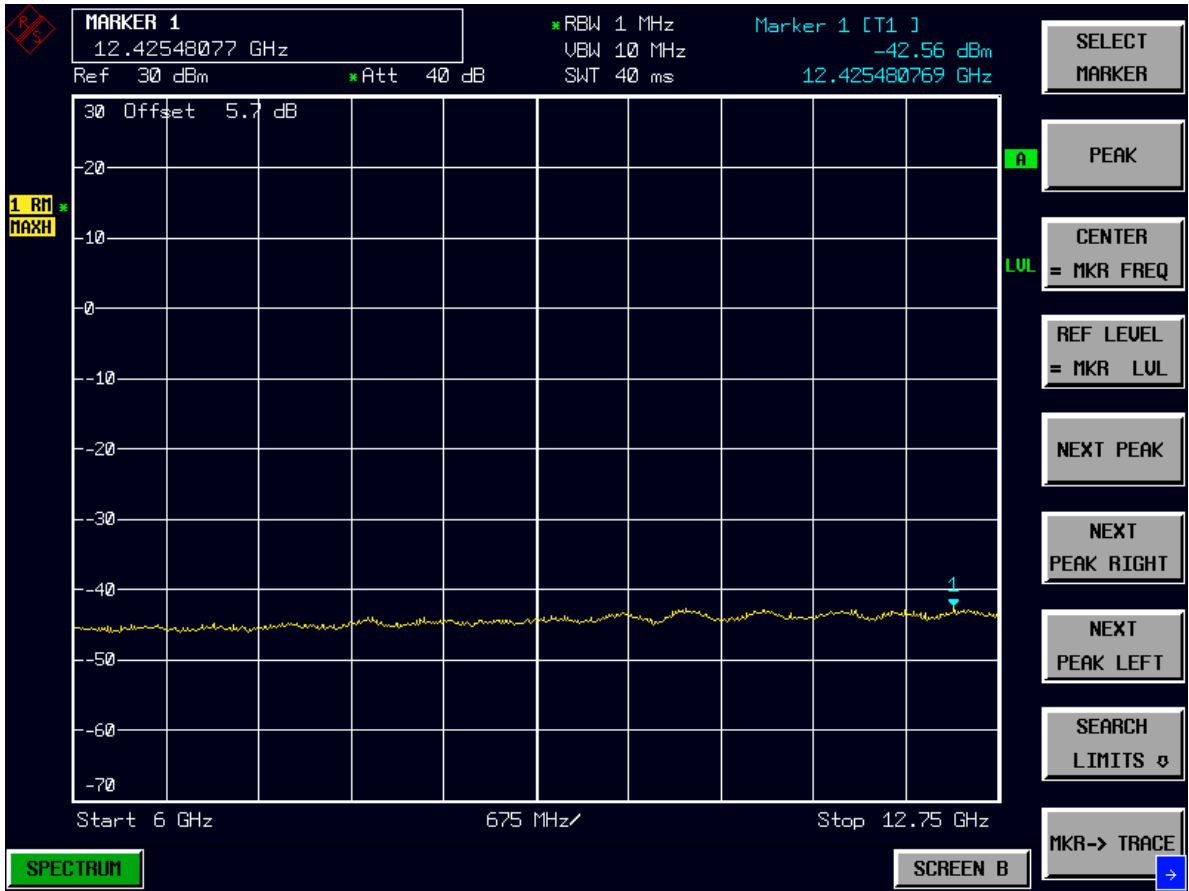




Channel 283

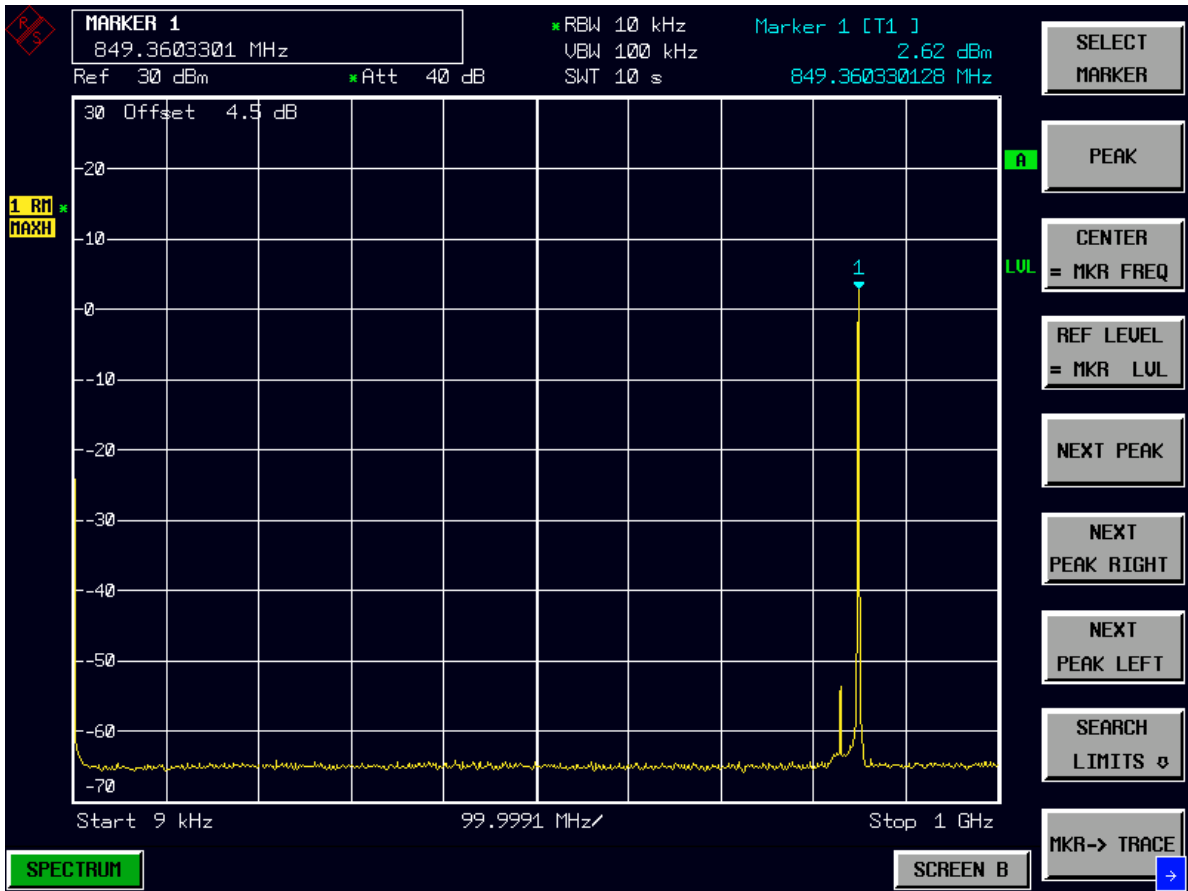


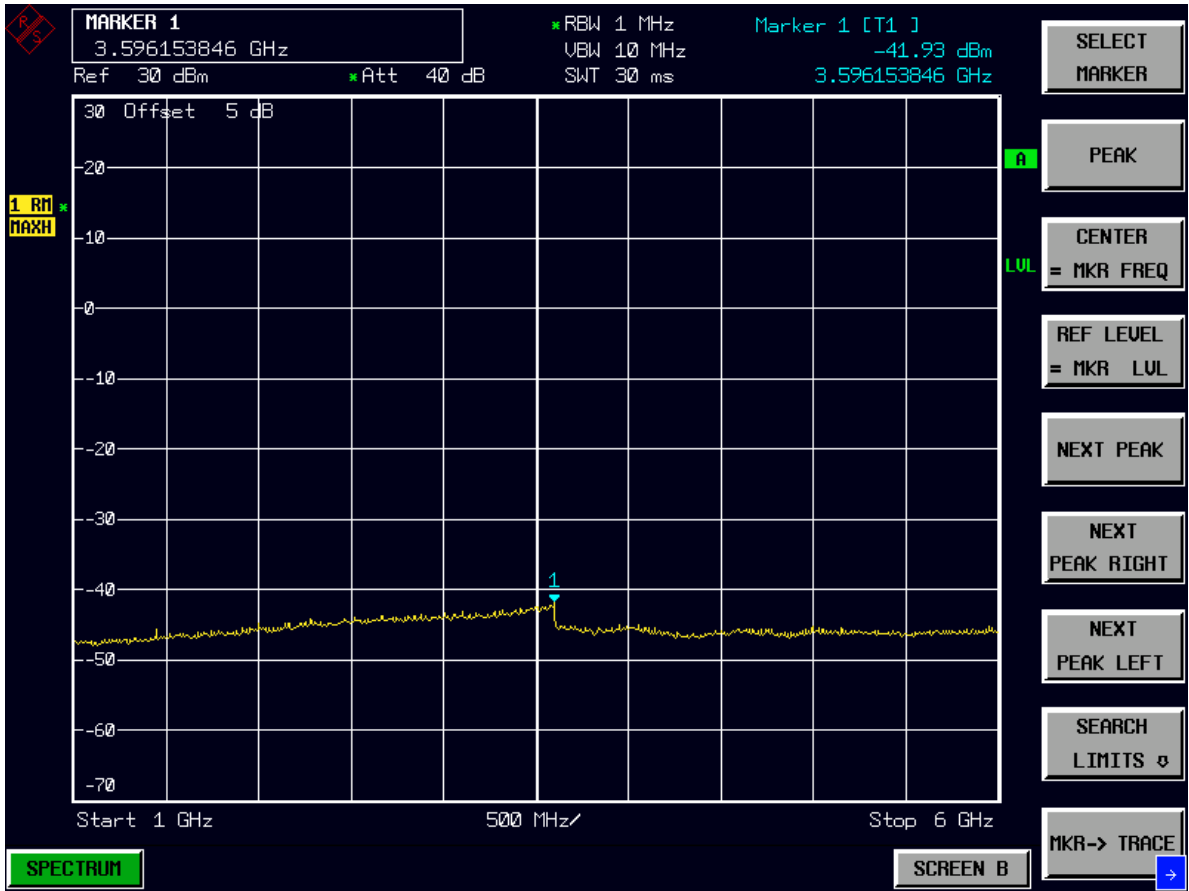


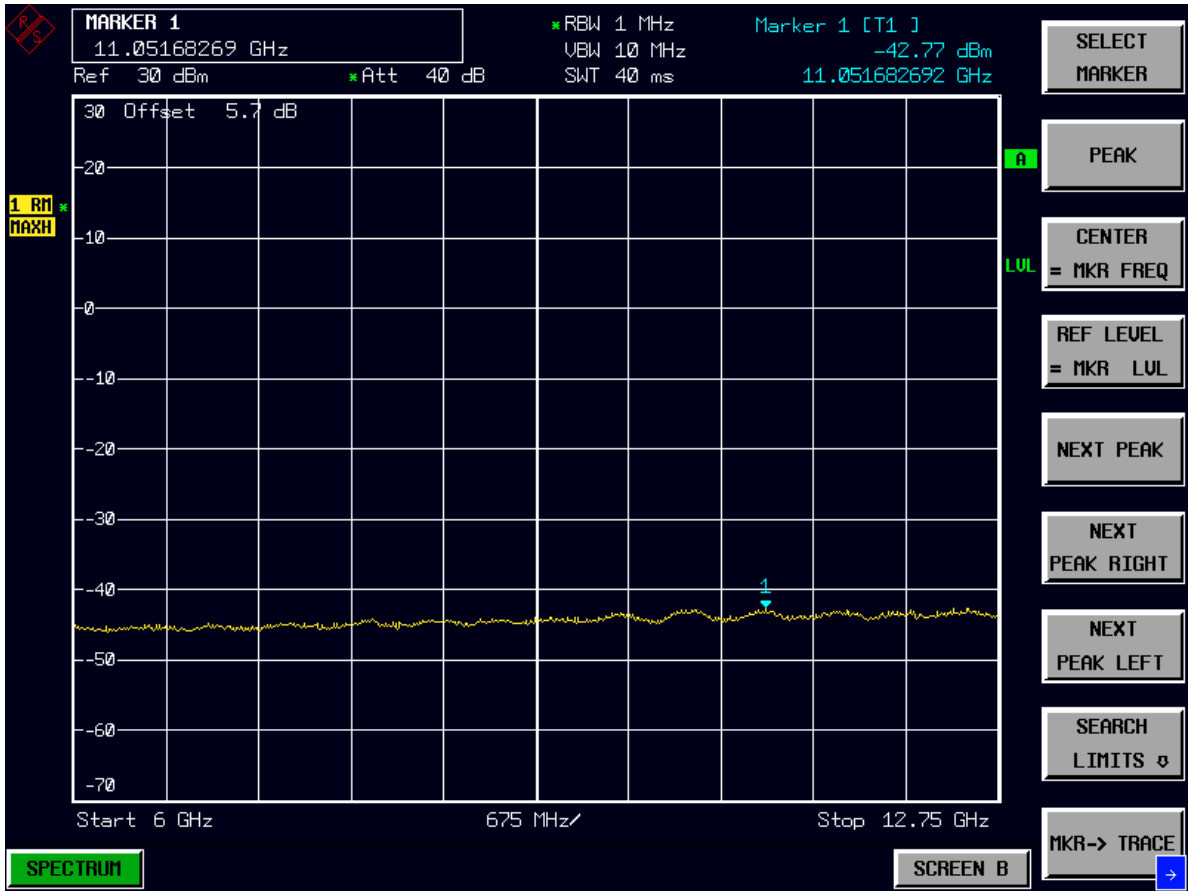




Channel 777





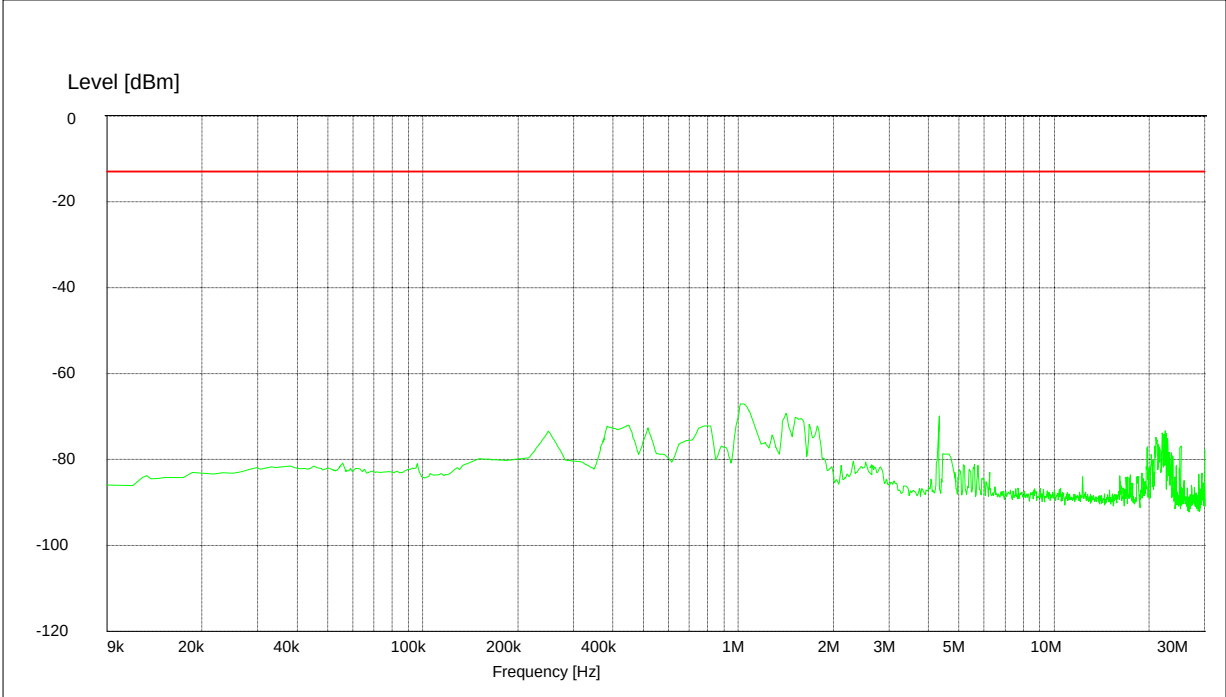


Appendix F

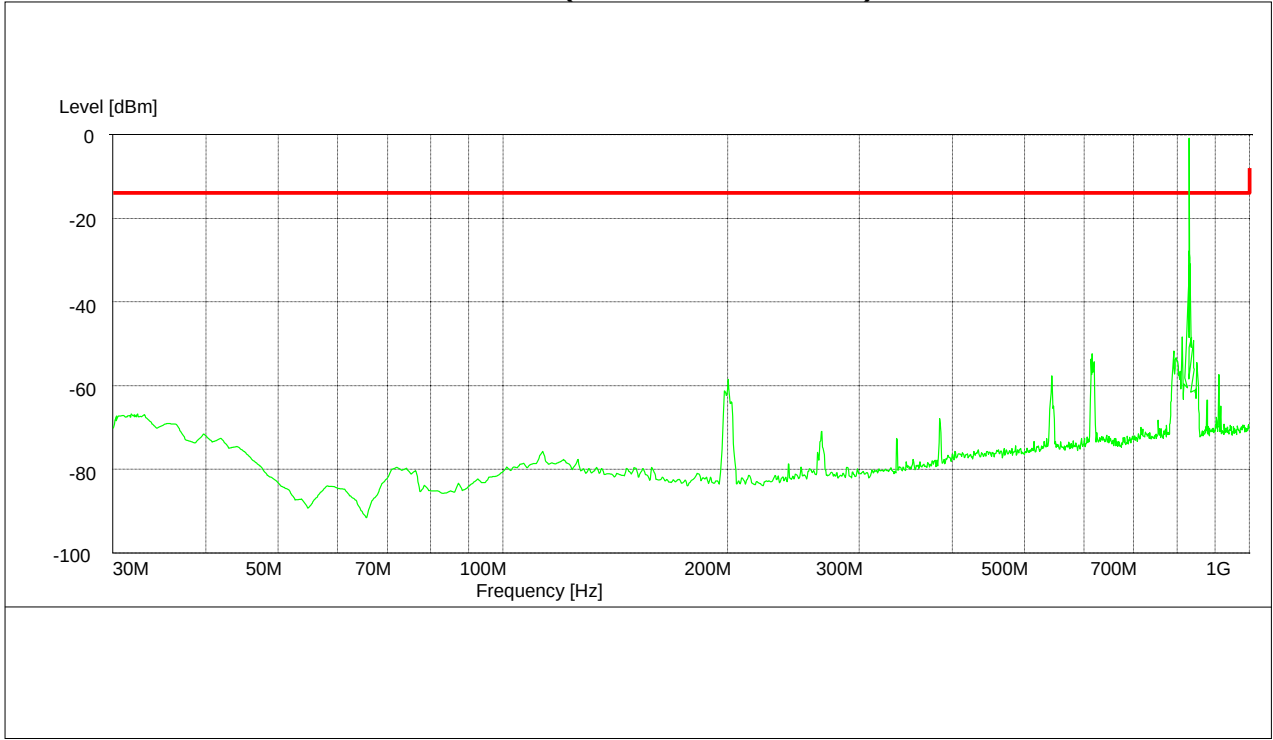
Field Strength of Spurious Radiation According to CFR 47 (FCC) part 2.1053 & 22.917(e)



TRA Mode (9kHz-30MHz)



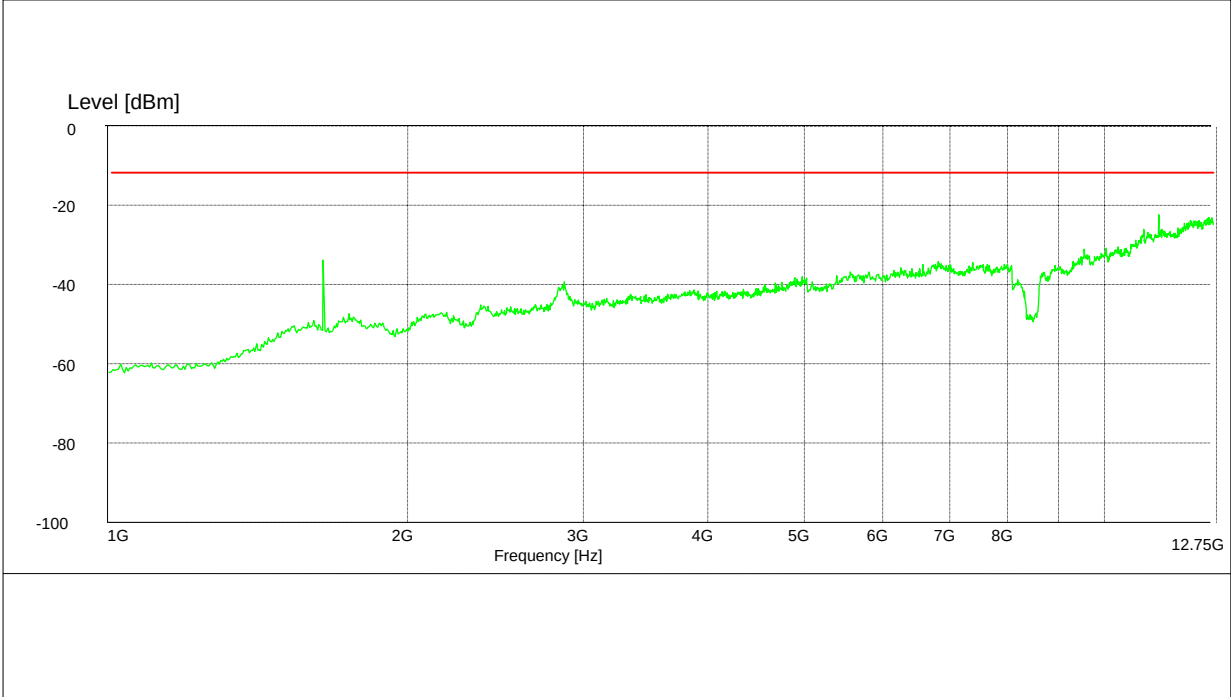
TRA Mode (30MHz-1GHz)



Note: The frequency which exceeded the limit was the carrier frequency.

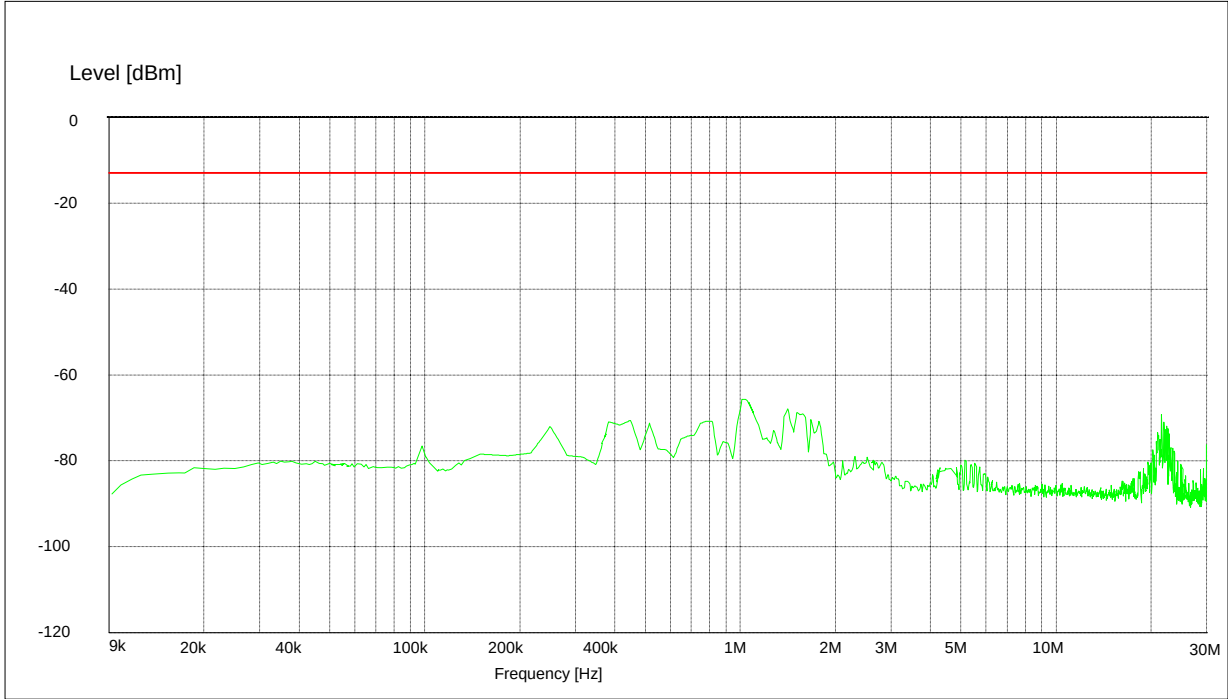


TRA Mode (1GHz-12.75GHz)



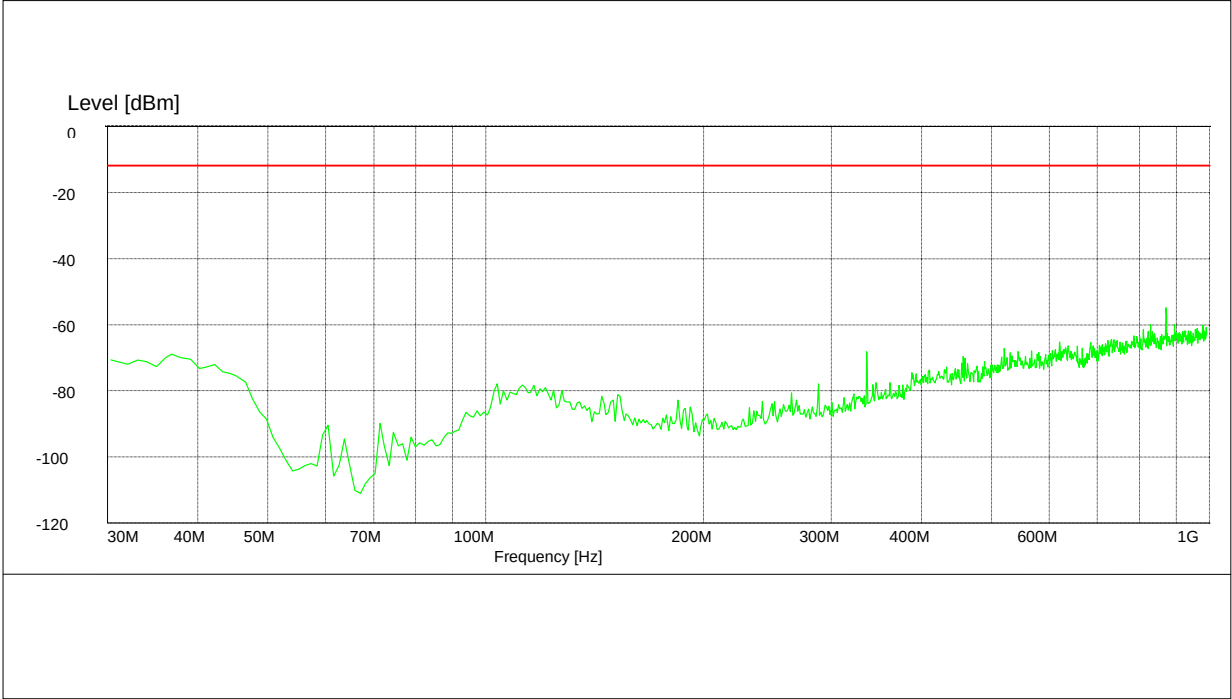
IDLE Mode (9 kHz-30MHz)

handsethandsethandset



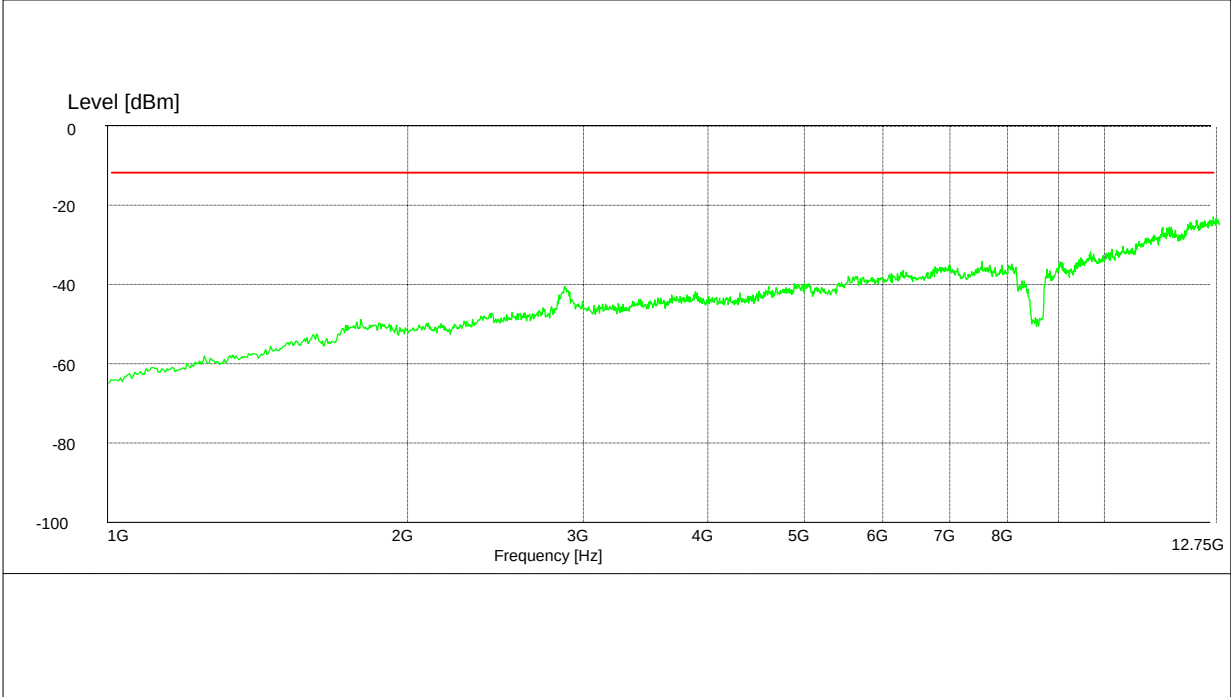


IDLE Mode (30MHz-1GHz)





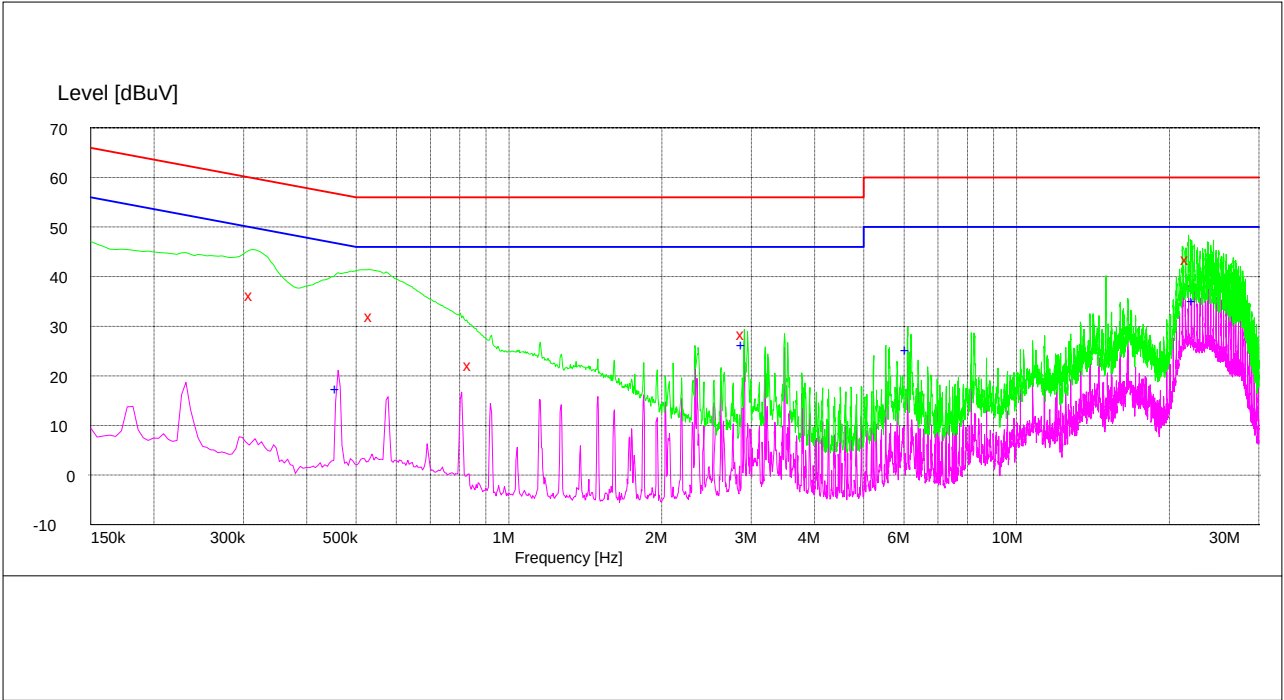
IDLE Mode (1GHz-12.75GHz)



Appendix G

Conducted Emission at Power Port

According to CFR 47 (FCC) part 15.107



MEASUREMENT RESULT: QP DECTER

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.312000	36.50	1.0	60	23.4	L2	FLO
0.537000	32.20	0.7	56	23.8	L2	FLO
0.843000	22.40	0.6	56	33.6	L2	FLO
2.908500	28.60	0.5	56	27.4	L2	FLO
21.799500	43.80	3.0	60	16.2	L2	FLO

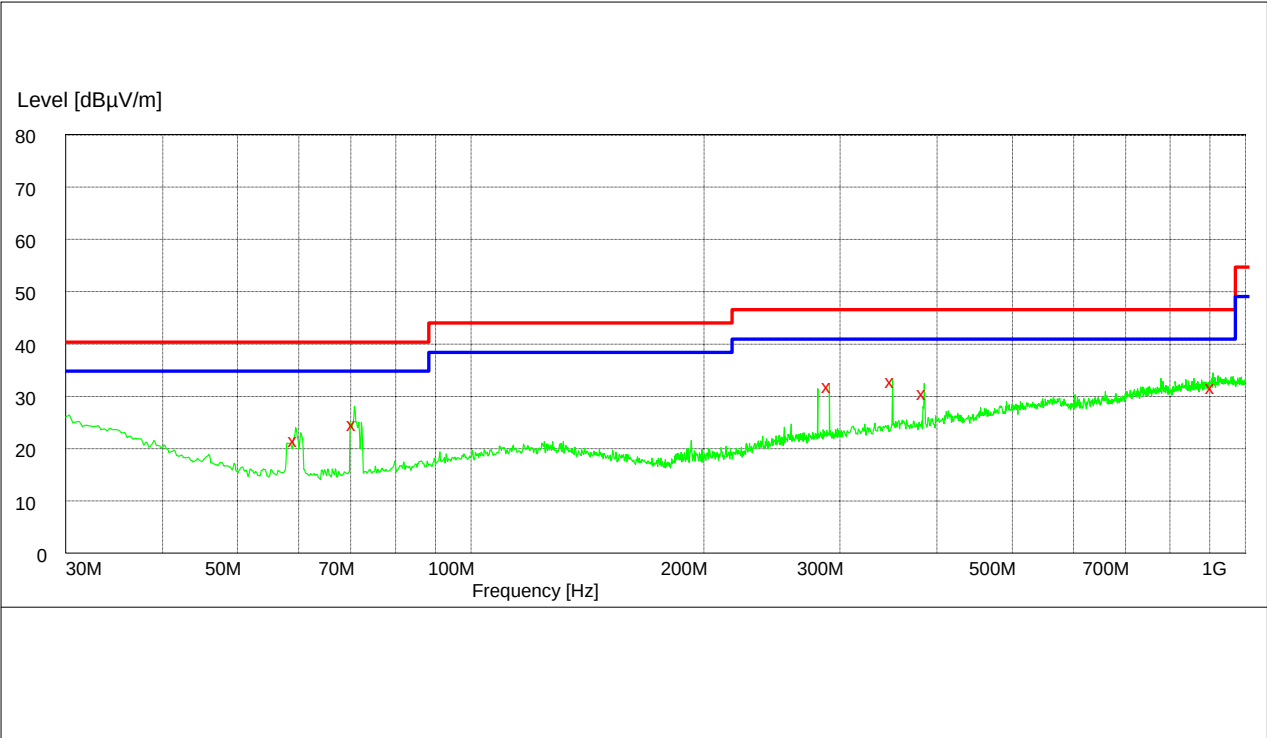
MEASUREMENT RESULT: “AV DECTER”

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.460500	17.40	0.6	47	29.3	L2	FLO
2.908500	26.50	0.5	46	19.5	L2	FLO
6.103500	25.50	0.7	50	24.5	L2	FLO
22.389000	35.20	2.8	50	14.8	N	FLO

Appendix H

Radiated Emission of Enclosure in Idle Mode

According to CFR 47 (FCC) part 15.109



MEASUREMENT RESULT: QP DECTER

Frequency (MHz)	Level (dBμV/m)	Transd (dB)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
59.400000	22.00	-5.4	40.0	18.0	100.0	220.00	VERTICAL
70.800000	25.00	-15.9	40.0	15.0	110.0	180.00	VERTICAL
290.400000	32.40	-12.0	46.0	13.6	100.0	300.00	VERTICAL
350.555000	33.26	-10.1	46.0	12.74	100.0	0.00	VERTICAL
384.770000	31.00	0.6	46.0	15.0	150.0	20.00	VERTICAL
909.300000	32.00	0.7	46.0	14.0	100.0	20.00	VERTICAL

Appendix I

Photos of Test Setup

2 Radiated Emissions



Radiated Disturbance

3 Radiated Spurious Emissions



Radiated Spurious Emission (below 1GHz)



Radiated Spurious Emission (above 1GHz)

4 Conducted Emissions



Conducted Emissions for AC Ports