

Annex 4: Measurement diagrams to
TEST REPORT
 No.: 6-0592-14-2-11a

According to:

FCC Part 15.407

for

ASCOM AB

Cellular/Wi-Fi Smartphone SH1-ACAA

FCC ID: BXZSH1C







Laboratory Accreditation and Listings			
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 <p>WiFi ALLIANCE AUTHORIZED RF LABORATORY</p>	 <p>CTIA Authorized Test Lab LAB CODE 20011130-00</p>		
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1. Measurement diagrams

1.1. Conducted EMI measurements on AC-mains port according 15.207, class B

1.05

Common Information

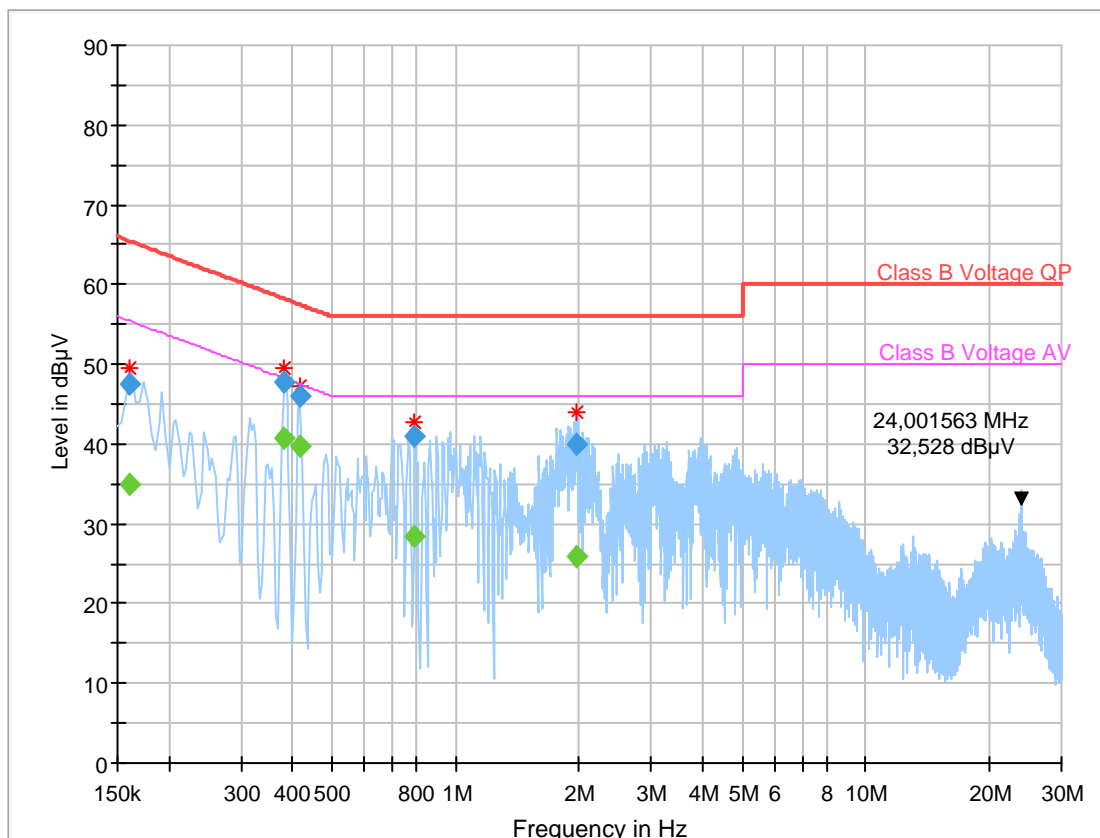
Test Description:	Conducted Voltage Measurement Class B
Test Site & Location:	Conducted Emission, CETECOM GmbH Essen
Test Software:	R&S EMC32 v9.15
Test Specification:	FCC 15.107, FCC 15.207
Operating Mode:	WLAN 5GHz ping + GPS RX
Measured on line:	N/L1
Diagram details:	Shows the peak values as a sum of measured ports in maxhold mode
Environmental Conditions:	Humidity: 43%rH; Temperature: 21°C
Operator:	npe
Comments:	

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EA0D
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)
0.160000	---	34.87	55.46
0.160000	47.49	---	65.46
0.381875	---	40.64	48.24
0.381875	47.67	---	58.24
0.418125	---	39.79	47.49
0.418125	45.96	---	57.49
0.795938	---	28.34	46.00
0.795938	40.93	---	56.00
1.974531	---	25.84	46.00
1.974531	39.86	---	56.00

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)
0.160000	---	34.87	55.46
0.160000	47.49	---	65.46
0.381875	---	40.64	48.24
0.381875	47.67	---	58.24
0.418125	---	39.79	47.49
0.418125	45.96	---	57.49
0.795938	---	28.34	46.00
0.795938	40.93	---	56.00
1.974531	---	25.84	46.00
1.974531	39.86	---	56.00

1.2. Radiated field strength measurements accord. §15.209 (15.205) and §15.407

1.2.1. Magnetic field measurements $f < 30\text{MHz}$

Diagram No. 2.01_Ch36_mcs0

Date:	17.02.2015	Page 1 of 1
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V8.51.0	
Distance correction:	used accord. table, pls. see test report	
Technical Data:	Please see page 2 for detailed data of measurement setup	
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation	
Used filter:	bypass	
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3	
Operator:	Kre	
Operating conditions:	WLAN 5GHz	
Power during tests:	120V/60Hz	
Comment 1:	Channel low: 36, mcs0	
Comment 2:		

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EA0D
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	

FCC15.209_magn hor+vert

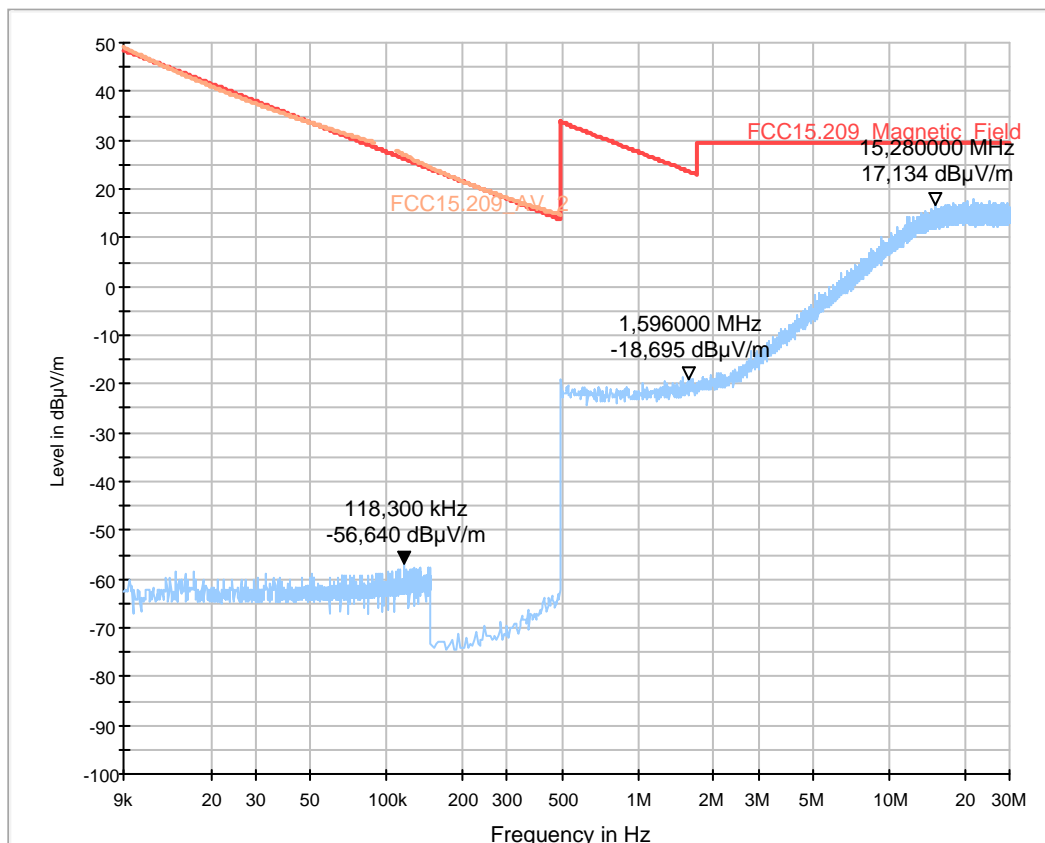


Diagram No. 2.02_Ch64_mcs1

Date:	17.02.2015	Page 1 of 1
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V8.51.0	
Distance correction:	used accord. table, pls. see test report	
Technical Data:	Please see page 2 for detailed data of measurement setup	
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation	
Used filter:	bypass	
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3	
Operator:	Kre	
Operating conditions:	WLAN 5GHz	
Power during tests:	120V/60Hz	
Comment 1:	Channel middle: 64, mcs1	
Comment 2:		

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EA0D
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	

FCC15.209_magn hor+vert

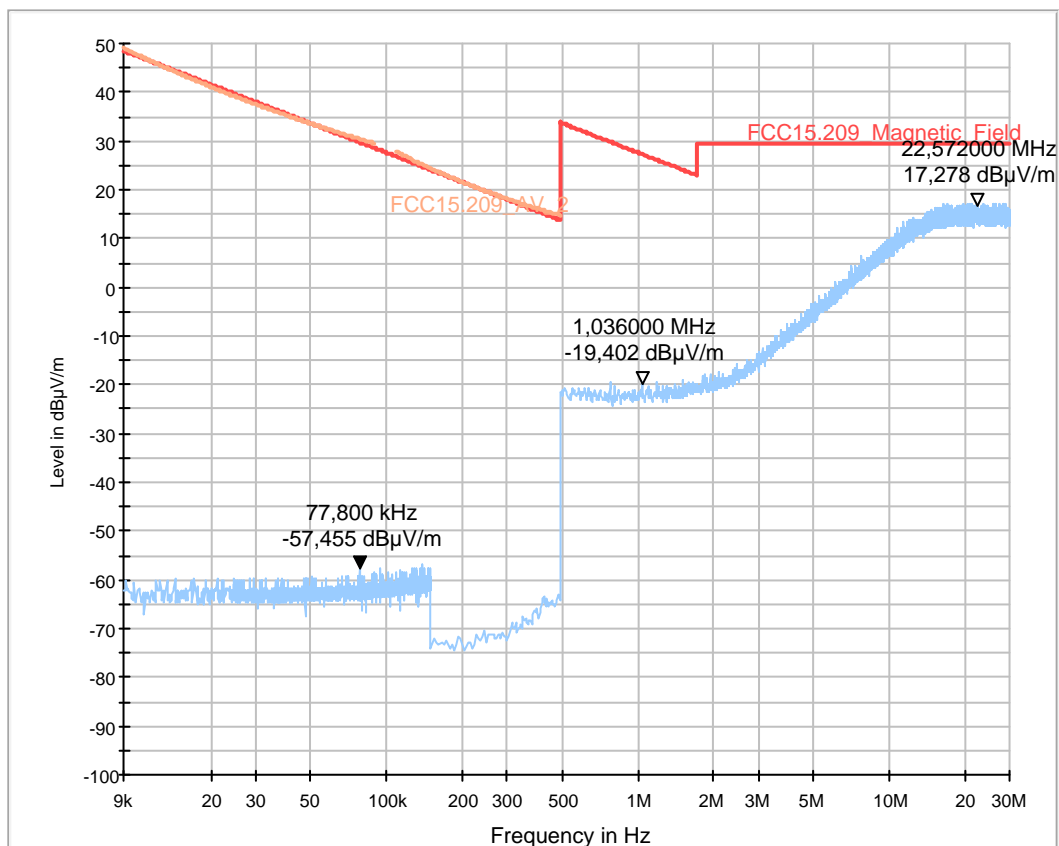


Diagram No. 2.03_Ch116_6Mbit

Date:	17.02.2015	Page 1 of 1
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V8.51.0	
Distance correction:	used accord. table, pls. see test report	
Technical Data:	Please see page 2 for detailed data of measurement setup	
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation	
Used filter:	bypass	
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3	
Operator:	Kre	
Operating conditions:	WLAN 5GHz	
Power during tests:	120V/60Hz	
Comment 1:	Channel high: 116, 6Mbit	
Comment 2:		

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EA0D
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VVAC/60Hz

FCC15.209_magn hor+vert

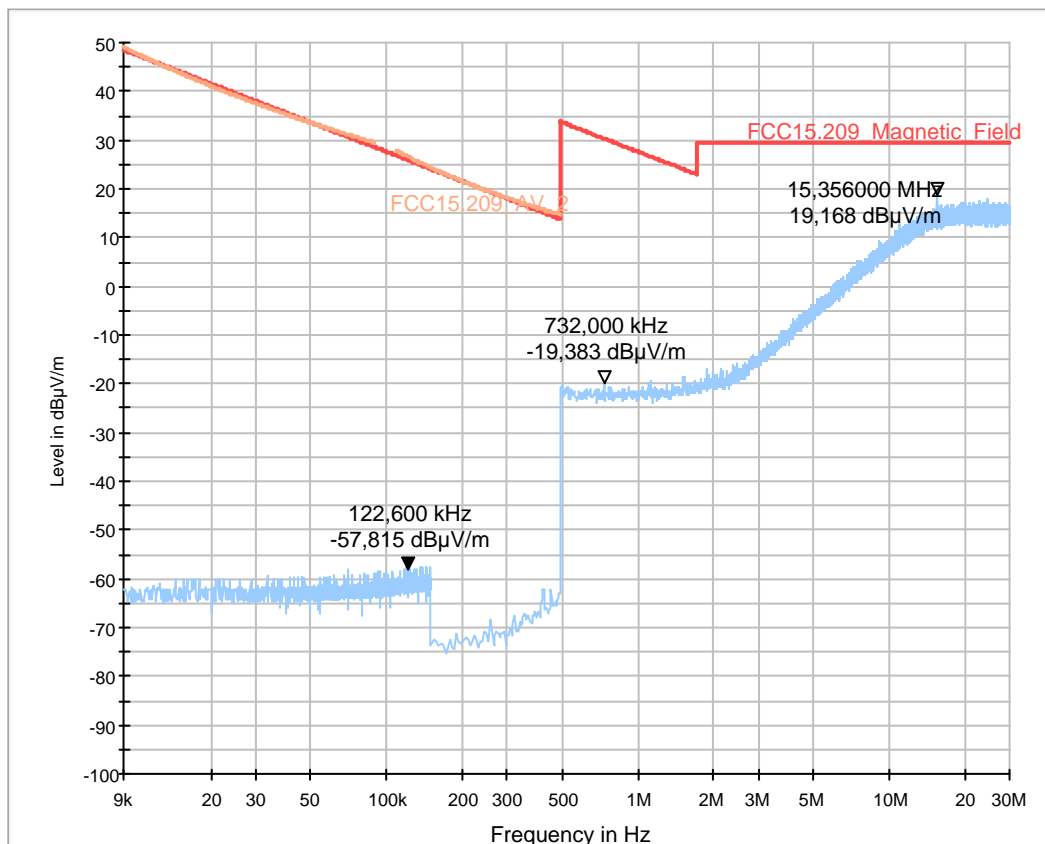


Diagram No. 2.04_Ch149_6Mbit_sweep1

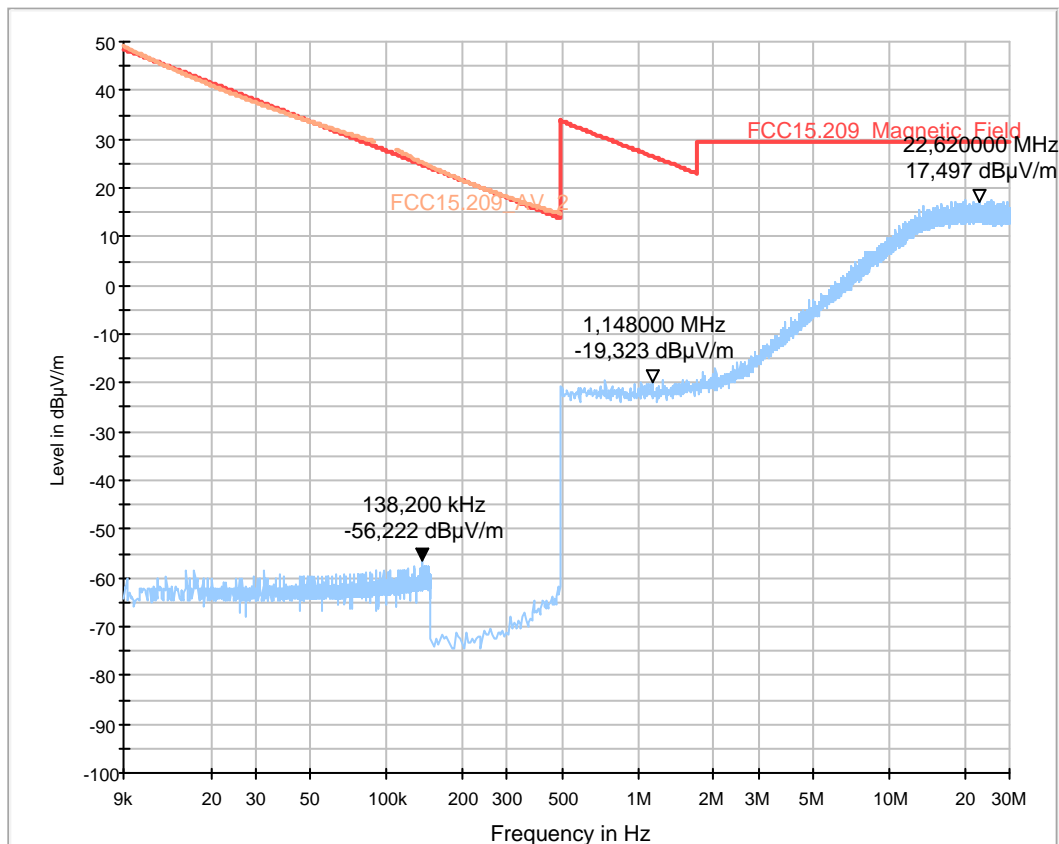
Date:	17.02.2015	Page 1 of 1
Test description:	Magnetic Field Strength Measurement related to 30/300 m distance	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V8.51.0	
Distance correction:	used accord. table, pls. see test report	
Technical Data:	Please see page 2 for detailed data of measurement setup	
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation	
Used filter:	bypass	
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3	
Operator:	Kre	
Operating conditions:	WLAN 5GHz	
Power during tests:	120V/60Hz	
Comment 1:	Channel : 149, 6Mbit	
Comment 2:		

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EA0D
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	

FCC15.209_magn hor+vert



1.2.2. Field strength measurements 30MHz <f <1GHz

Diagram No. 4.01_ch36_MCS0_Sweep2

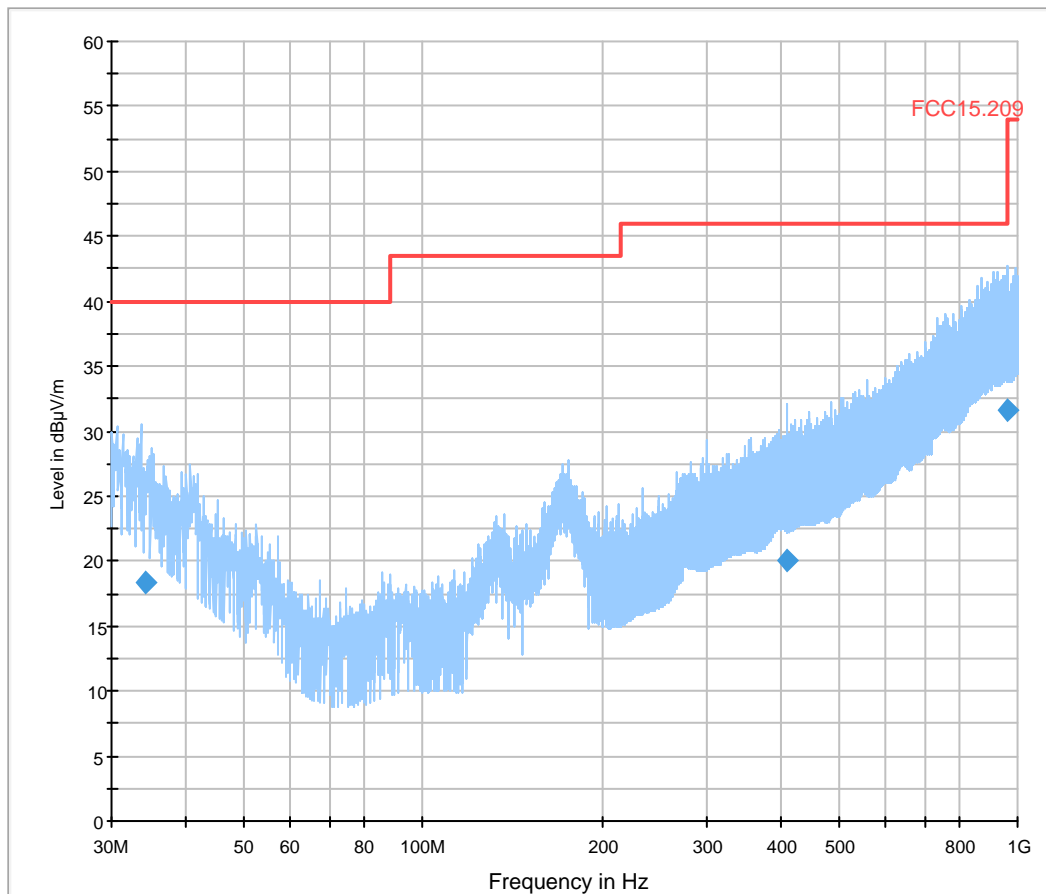
Test description:	18.02.2015 Page 1 of 2 Electric Field Strength Measurement
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V8.51.0
Distance correction:	not used
Used filter:	not used
Test specification.:	FCC 15.209; RSS-Gen: Issue 3
Operator:	npe
Operating conditions:	WLAN 5GHz, channel 36, MCS0
Power during tests:	110V 60Hz, full loaded batteries
Comment 1:	

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EA0D
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC

01_FCC15.209_hor+vert_kipp



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)
34.230000	18.3	1000.0	120.000	360.0	V	190.0	0.0	20.0	21.70
410.570000	20.0	1000.0	120.000	282.0	V	130.0	90.0	18.6	26.00
959.760000	31.6	1000.0	120.000	309.0	V	261.0	90.0	27.5	14.40

(continuation of the "Final Result 1" table from column 10 ...)

Frequency (MHz)	Limit (dB μ V/m)
34.230000	40.00
410.570000	46.00
959.760000	46.00

Diagram No. 4.02_ch64_MCS1_Sweep2

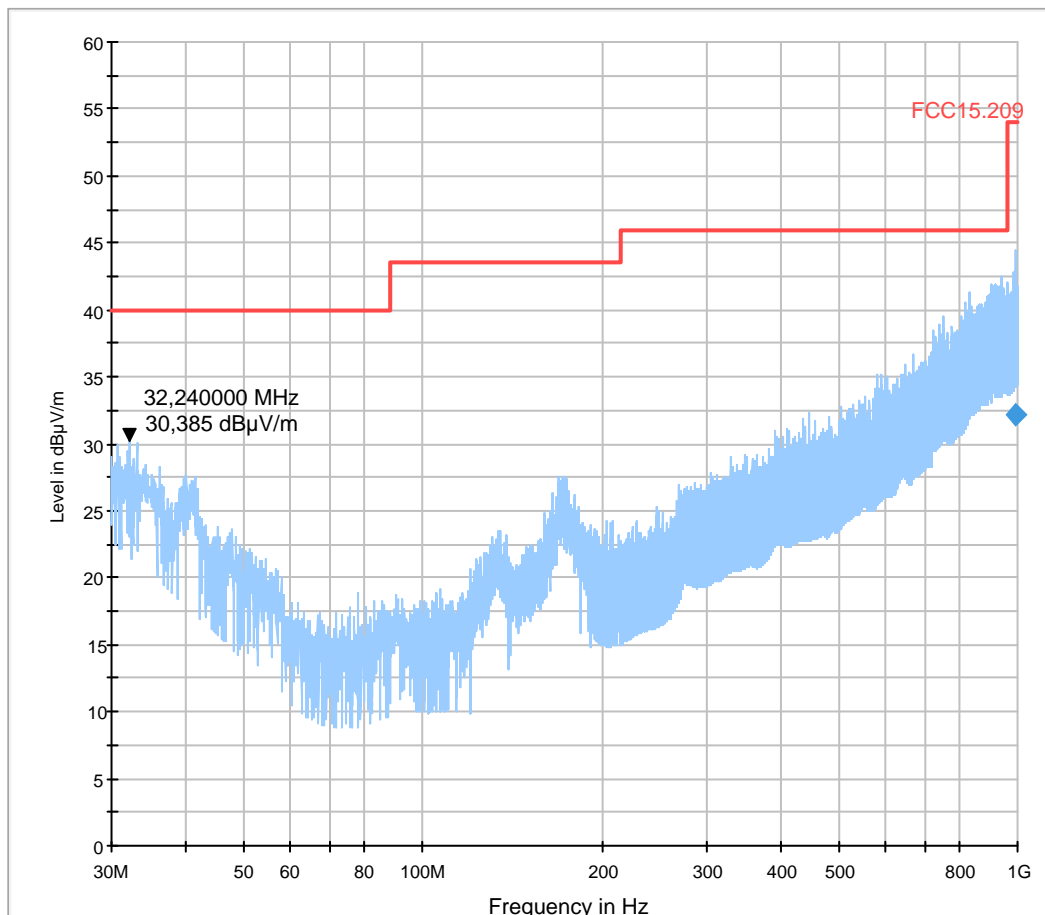
Test description:	18.02.2015 Page 1 of 2
Test site and distance:	Electric Field Strength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V8.51.0
Used filter:	not used
Test specification.:	not used
	FCC 15.209; RSS-Gen: Issue 3
Operator:	YZH
Operating conditions:	WLAN 5GHz, channel 64, MCS1
Power during tests:	110V 60Hz, full loaded batteries
Comment 1:	

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EA0D
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC

01_FCC15.209_hor+vert_kipp



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)
994.610000	32.1	1000.0	120.000	175.0	H	145.0	90.0	27.9	21.90

(continuation of the "Final Result 1" table from column 10 ...)

Frequency (MHz)	Limit (dBµV/m)
994.610000	54.00

Diagram No. 4.03_ch100_6Mbit_Sweep2

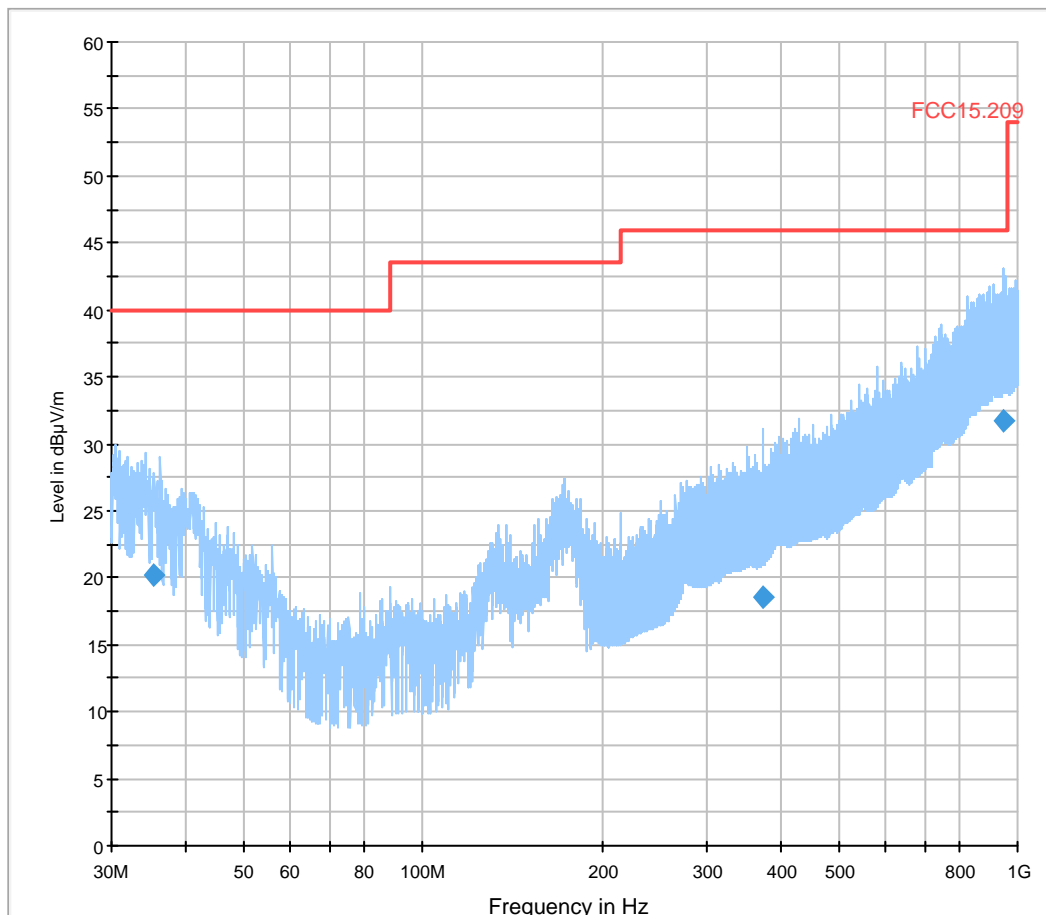
	18.02.2015	Page 1 of 2
Test description:	Electric Field Strength Measurement	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V8.51.0	
Distance correction:	not used	
Used filter:	not used	
Test specification.:	FCC 15.209; RSS-Gen: Issue 3	
Operator:	YZH	
Operating conditions:	WLAN 5GHz, channel 64, MCS1	
Power during tests:	110V 60Hz, full loaded batteries	
Comment 1:		

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EA0D
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC

01_FCC15.209_hor+vert_kipp



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)
35.420000	20.1	1000.0	120.000	182.0	H	142.0	90.0	19.5	19.90
...

(continuation of the "Final Result 1" table from column 10 ...)

Frequency (MHz)	Limit (dBµV/m)
35.420000	40.00
...	...

Diagram No. 4.04_ch116_6Mbit_Sweep2

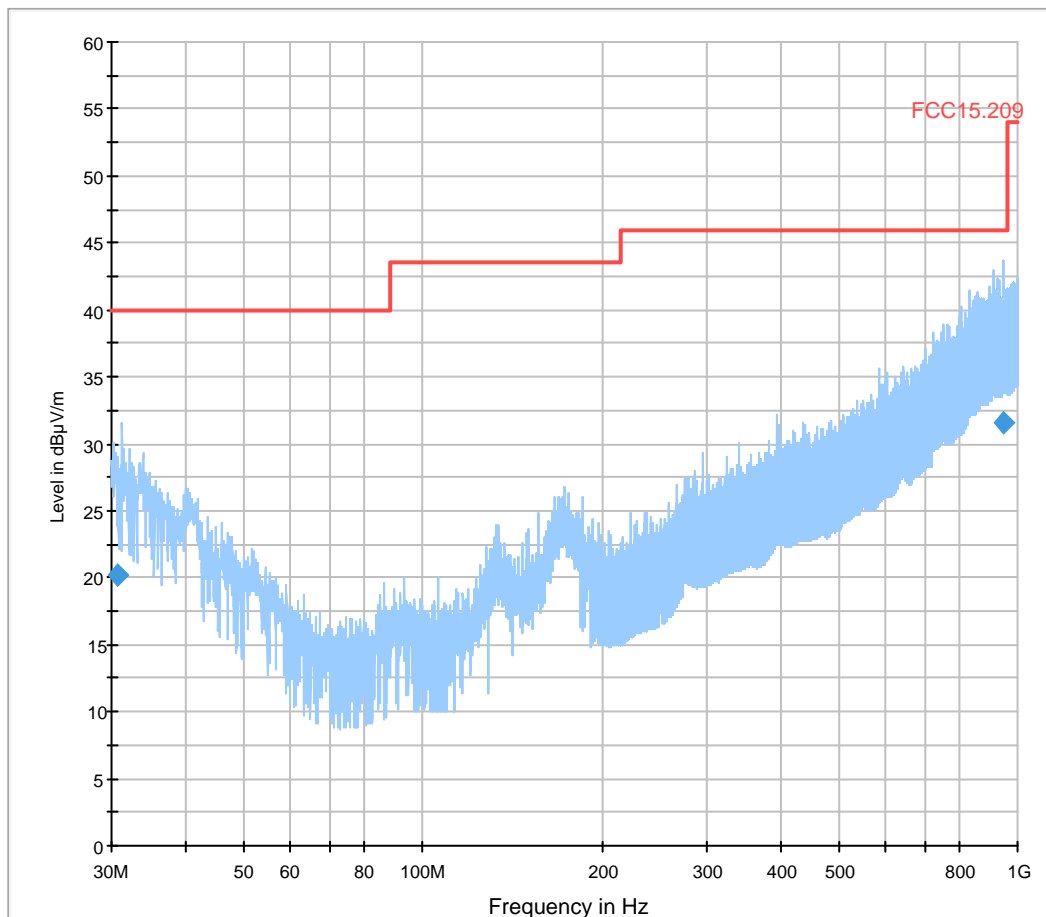
Test description:	18.02.2015 Page 1 of 2
Test site and distance:	Electric Field Strength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V8.51.0
Used filter:	not used
Test specification.:	not used
	FCC 15.209; RSS-Gen: Issue 3
Operator:	YZH
Operating conditions:	WLAN 5GHz, channel 116, 6 Mbit
Power during tests:	110V 60Hz, full loaded batteries
Comment 1:	

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EA0D
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC

01_FCC15.209_hor+vert_kipp



Data Reduction Result 1

Frequency (MHz)	MaxPeak- MaxHold (dB μ V/m)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ)	Comment
31.280000	31.6	105.0	H	90.0	90.0	21.5	8.40	40.0	
944.560000	43.8	105.0	H	180.0	90.0	27.3	2.20	46.0	

Diagram No. 4.05_ch140_6Mbit_Sweep2

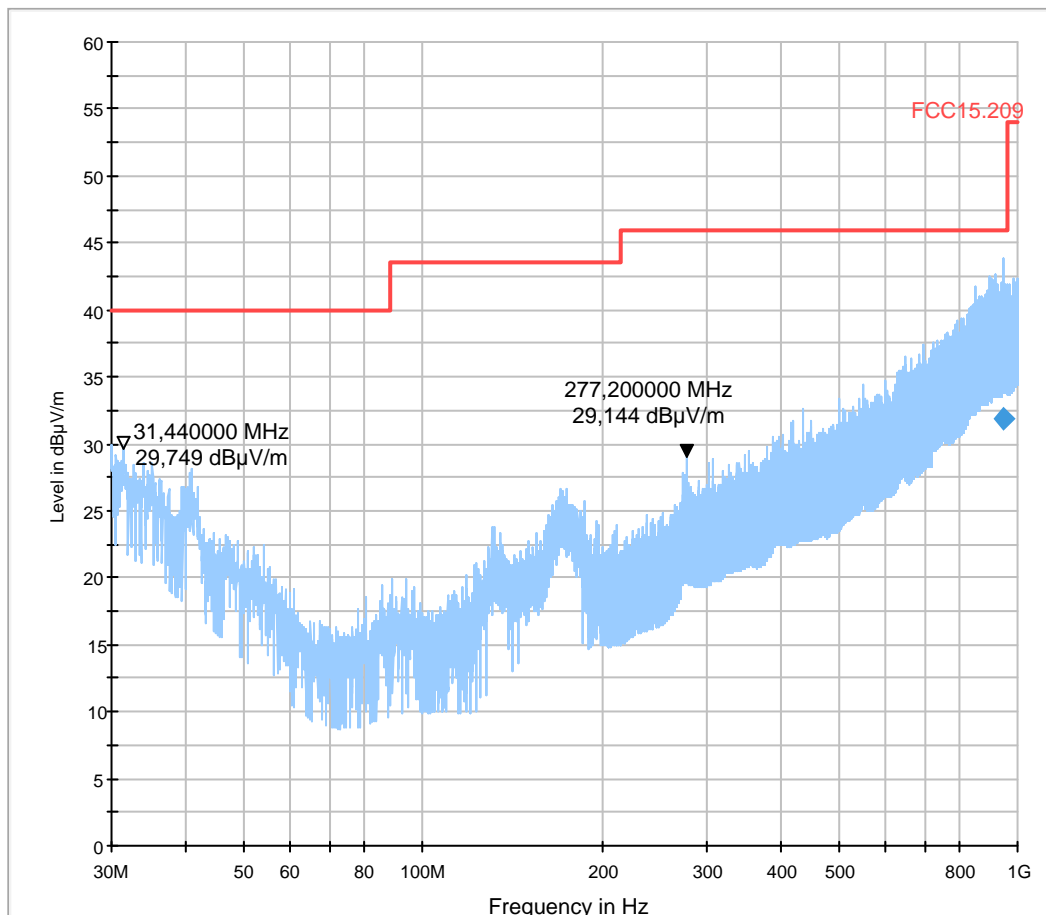
Test description:	18.02.2015 Page 1 of 2
Test site and distance:	Electric Field Strength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V8.51.0
Used filter:	not used
Test specification.:	not used
	FCC 15.209; RSS-Gen: Issue 3
Operator:	YZH
Operating conditions:	WLAN 5GHz, channel 140, 6 Mbit
Power during tests:	110V 60Hz, full loaded batteries
Comment 1:	

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EA0D
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC

01_FCC15.209_hor+vert_kipp



Data Reduction Result 1

Frequency (MHz)	MaxPeak- MaxHold (dB μ V/m)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ)	Comment
946.800000	43.8	105.0	V	270.0	0.0	27.4	2.20	46.0	

Diagram No. 4.06_ch149_6Mbit_Sweep2

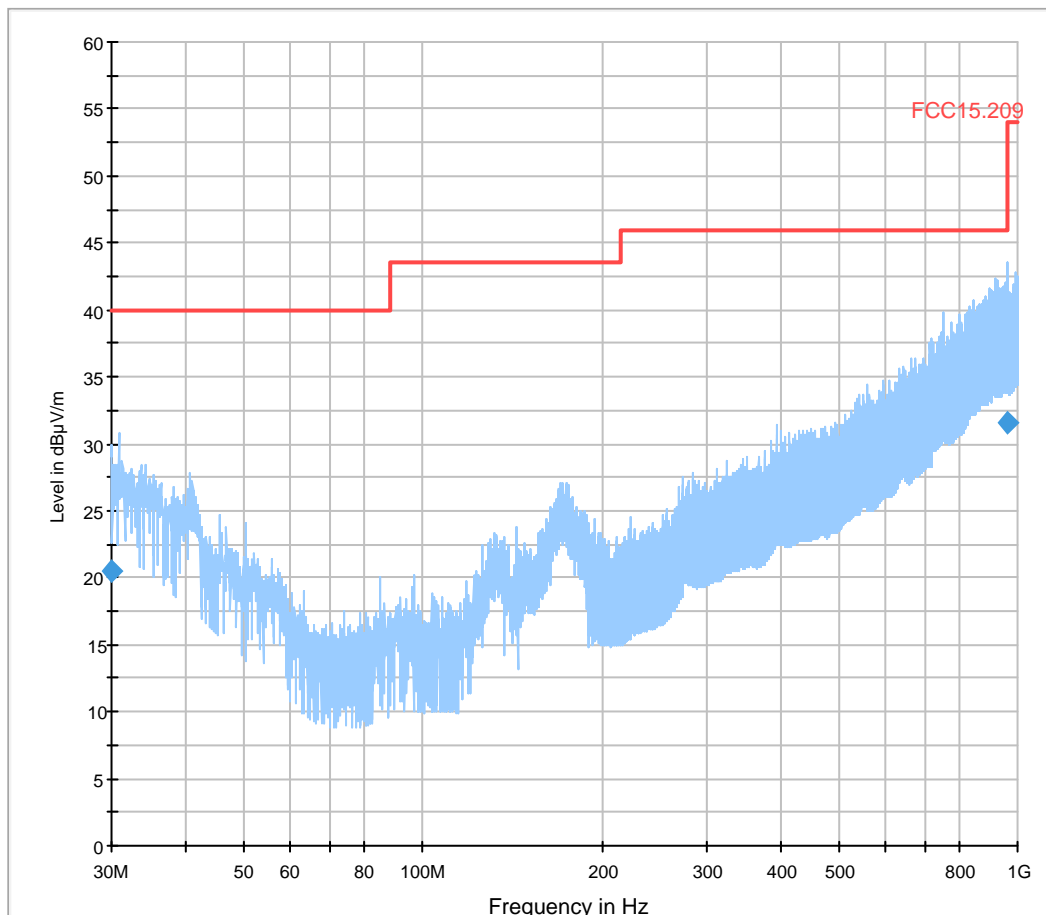
Test description:	18.02.2015 Page 1 of 2
Test site and distance:	Electric Field Strength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V8.51.0
Used filter:	not used
Test specification.:	not used
	FCC 15.209; RSS-Gen: Issue 3
Operator:	YZH
Operating conditions:	WLAN 5GHz, channel 149, 6 Mbit
Power during tests:	110V 60Hz, full loaded batteries
Comment 1:	

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EA0D
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC

01_FCC15.209_hor+vert_kipp



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)
30.030000	20.5	1000.0	120.000	182.0	H	114.0	90.0	22.1	19.50
959.910000	31.6	1000.0	120.000	105.0	H	152.0	0.0	27.5	14.40

(continuation of the "Final Result 1" table from column 10 ...)

Frequency (MHz)	Limit (dBµV/m)
30.030000	40.00
959.910000	46.00

Diagram No. 4.07_ch157_MCS0_Sweep2

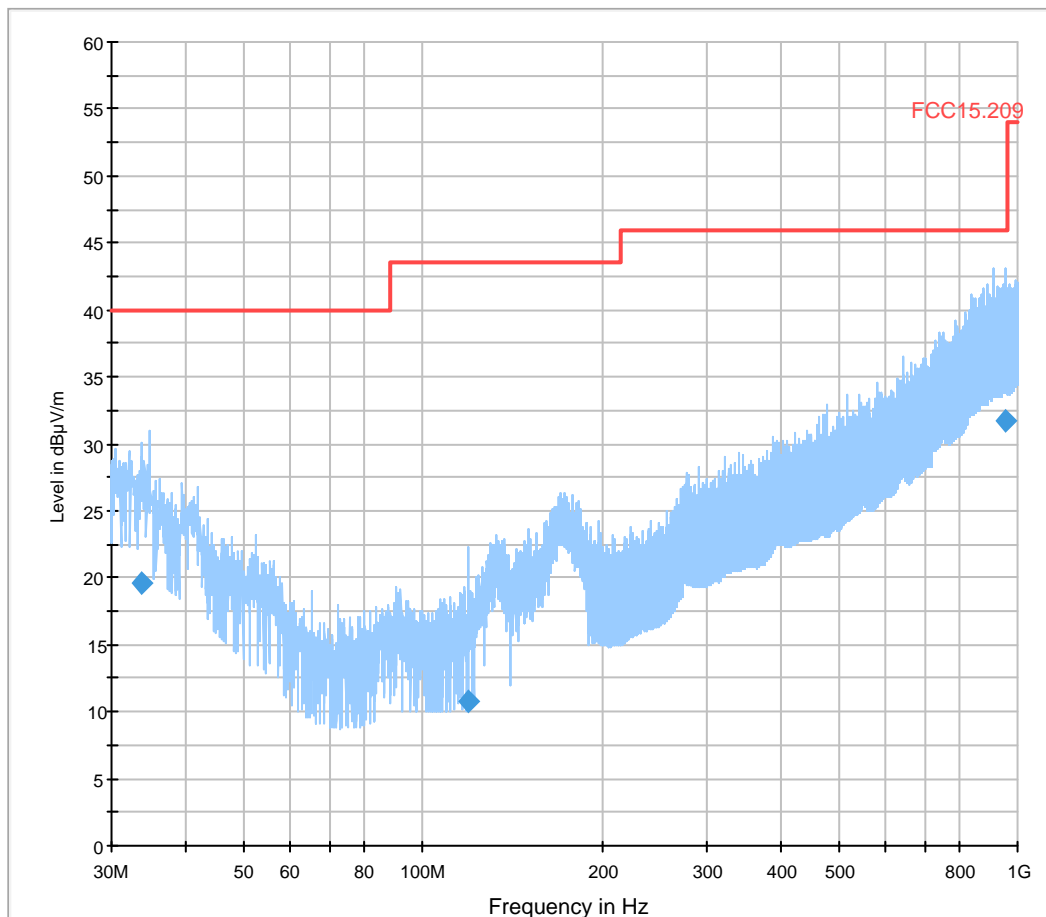
Test description:	18.02.2015 Page 1 of 2
Test site and distance:	Electric Field Strength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V8.51.0
Used filter:	not used
Test specification.:	not used
	FCC 15.209; RSS-Gen: Issue 3
Operator:	YZH
Operating conditions:	WLAN 5GHz, channel 157, MCS0
Power during tests:	110V 60Hz, full loaded batteries
Comment 1:	

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EA0D
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC

01_FCC15.209_hor+vert_kipp



Data Reduction Result 1

Frequency (MHz)	MaxPeak-MaxHold (dB μ V/m)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ)	Comment
34.840000	31.0	105.0	H	90.0	0.0	19.7	9.00	40.0	
119.000000	22.2	105.0	H	90.0	90.0	8.0	21.30	43.5	
951.400000	43.2	182.0	H	180.0	0.0	27.5	2.80	46.0	

Diagram No. 4.08_ch165_MCS2_Sweep2

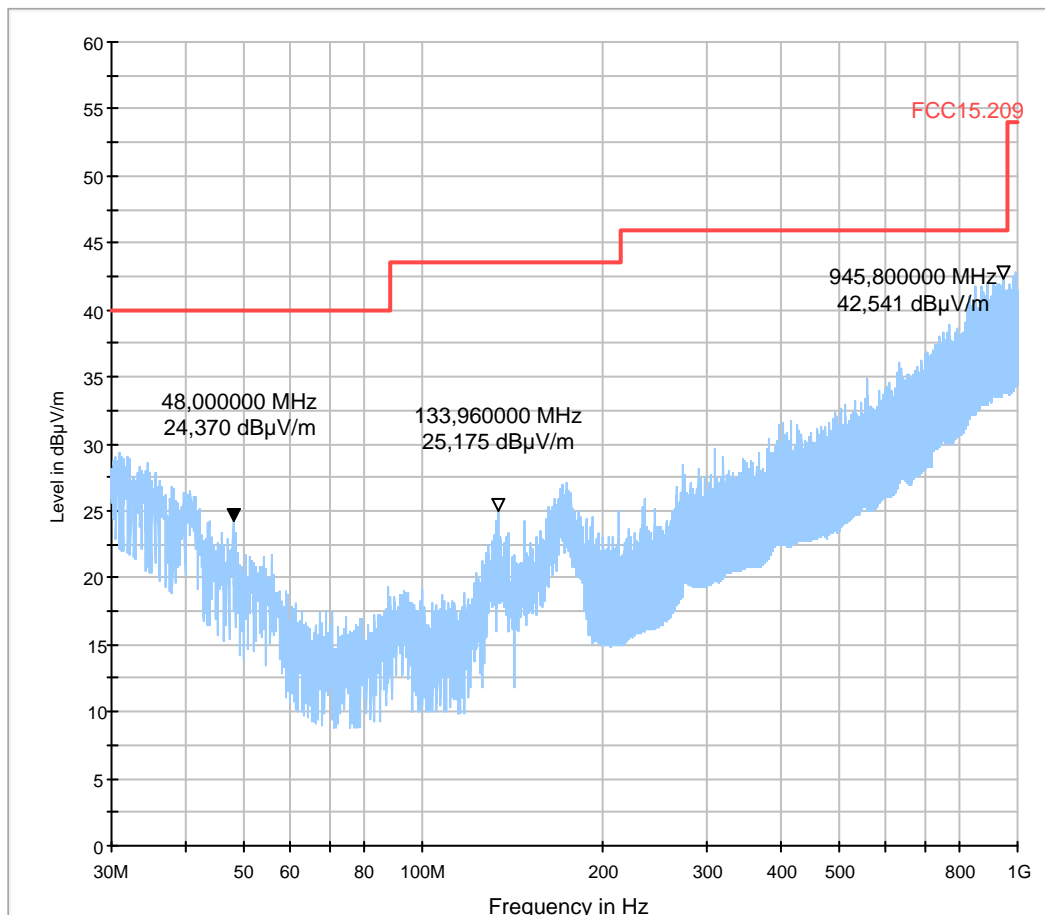
	18.02.2015	Page 1 of 1
Test description:	Electric Field Strength Measurement	
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance	
Version of Testsoftware:	EMC32 V8.51.0	
Distance correction:	not used	
Used filter:	not used	
Test specification.:	FCC 15.209; RSS-Gen: Issue 3	
Operator:	YZH	
Operating conditions:	WLAN 5GHz, channel 165, MCS2	
Power during tests:	110V 60Hz, full loaded batteries	
Comment 1:		

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EA0D
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC

01_FCC15.209_hor+vert_kipp



1.2.3. Field strength measurements 1GHz < f < 18GHz

4.01_Ch36_MCS0_sweep3

Common Information

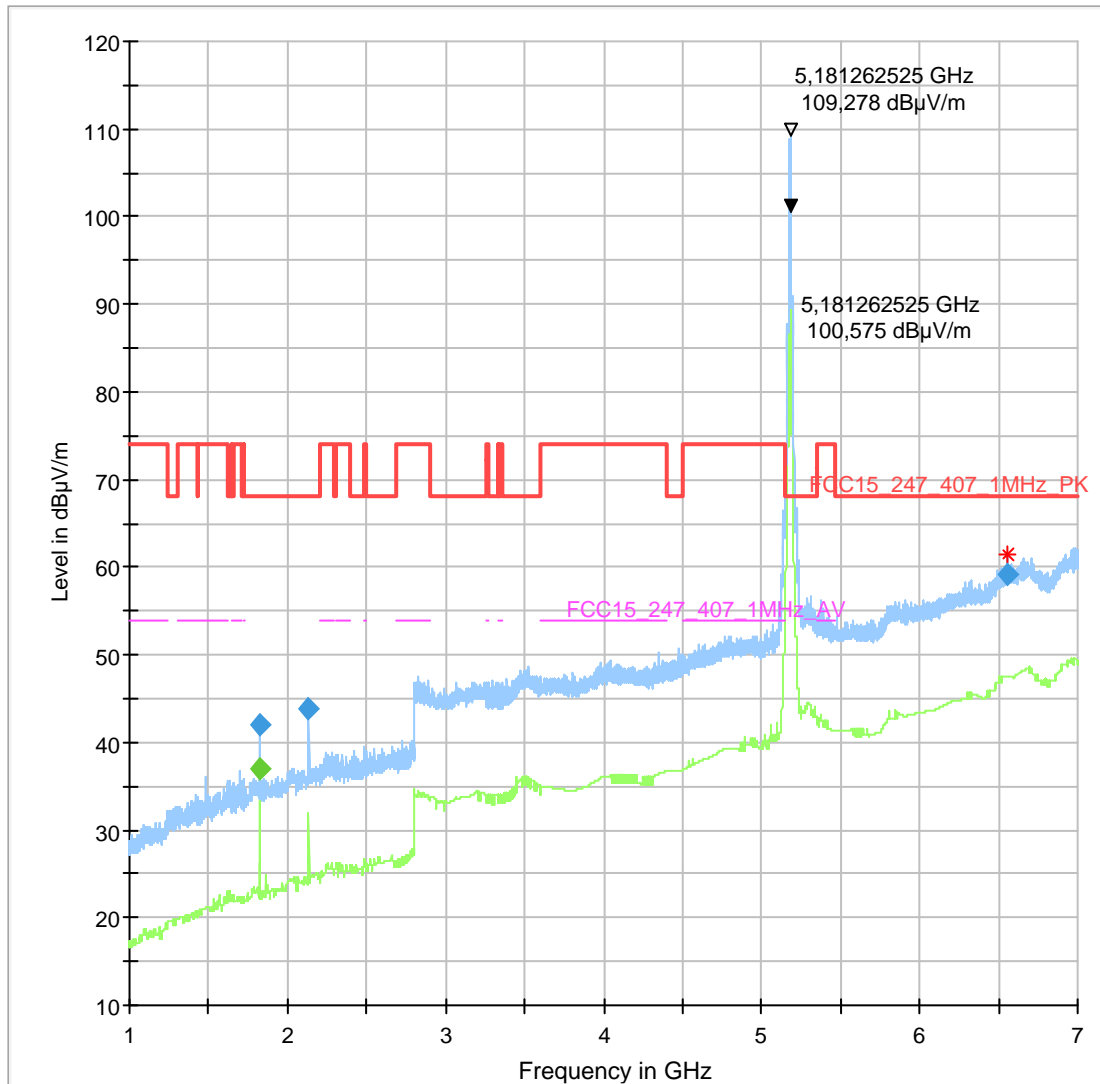
Test Description:	Radiated field strength emission accord. §15.247/15.407 in 3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 15.247 / 15.407
Section:	-
Operating Mode:	UE allocated channel 36 (fc =5180 MHz); Data rate: MCS0
Equipment Class:	Class B
Environmental Conditions:	Humidity: 32%rH; Temperature: 20°C
Operator:	YZH

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EB77
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
1825.566533	---	37.08	---	---	1000.0	1000.000	155.0	V	28.0	0.0
1825.566533	42.08	---	68.00	25.92	1000.0	1000.000	155.0	H	150.0	0.0
2133.992184	43.89	---	68.00	24.11	1000.0	1000.000	155.0	V	62.0	0.0
6552.810621	59.15	---	68.00	8.85	1000.0	1000.000	155.0	V	316.0	0.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr	Comment
1825.566533	1.1	08:59:43 - 17.02.2015
1825.566533	1.1	08:51:40 - 17.02.2015
2133.992184	2.8	08:47:50 - 17.02.2015
6552.810621	9.0	09:25:31 - 17.02.2015

Diagram No.: 4.01_Ch36_MCS0_sweep4

Common Information

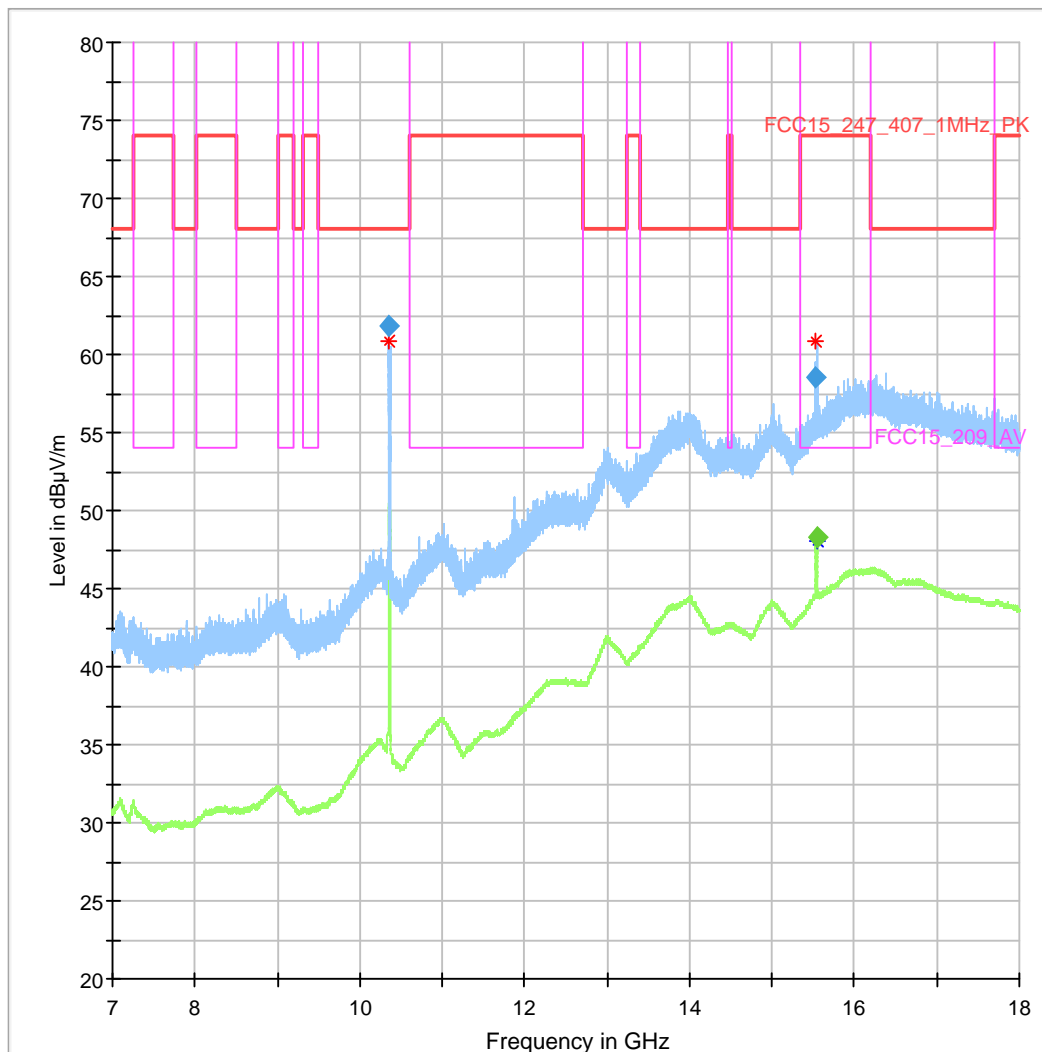
Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	MZs
Comment:	Channel no. low=36 (5180MHz)

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas . Time	Bandwidt h (kHz)	Heigh t (cm)	Po l	Azimut h (deg)	Elevatio n (deg)
10361.350000	61.82	---	68.00	6.18	100.0	1000.000	155.0	V	146.0	90.0
15529.800000	58.55	---	74.00	15.45	100.0	1000.000	155.0	H	195.0	90.0
15541.000000	---	48.30	54.00	5.70	100.0	1000.000	155.0	H	143.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
10361.350000	9.8	17:34:11 - 05.03.2015
15529.800000	19.8	17:32:49 - 05.03.2015
15541.000000	19.8	17:35:30 - 05.03.2015

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas . Time	Bandwidt h (kHz)	Heigh t (cm)	Po l	Azimut h (deg)	Elevatio n (deg)
10361.350000	61.82	---	68.00	6.18	100.0	1000.000	155.0	V	146.0	90.0
15529.800000	58.55	---	74.00	15.45	100.0	1000.000	155.0	H	195.0	90.0
15541.000000	---	48.30	54.00	5.70	100.0	1000.000	155.0	H	143.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
10361.350000	9.8	17:34:11 - 05.03.2015
15529.800000	19.8	17:32:49 - 05.03.2015
15541.000000	19.8	17:35:30 - 05.03.2015

Diagram No.: 4.02_ch64_mcs1_sweep3

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	Lor
Comment:	Channel no. 64 =5320MHz

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum

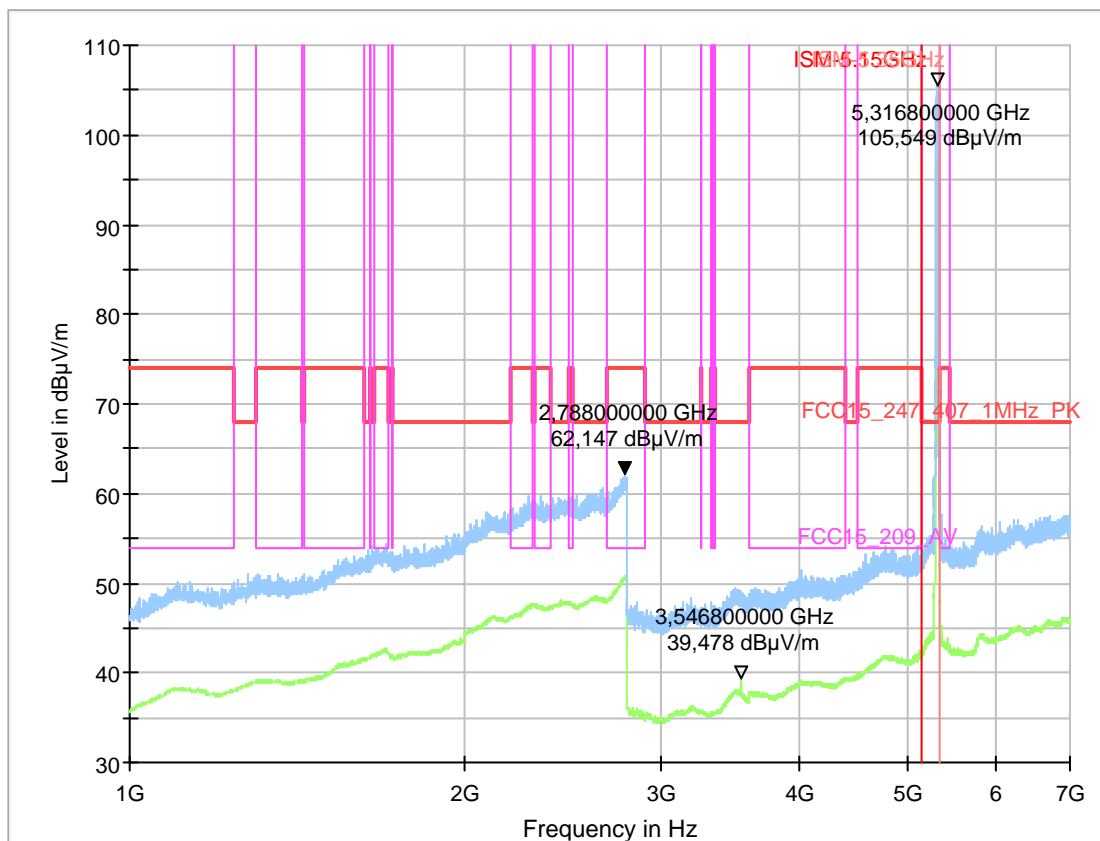


Diagram No.: 4.03_Ch100_6Mbit_sweep3

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	Lor
Comment:	Channel no. low=100, 6MBit

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EB77
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum

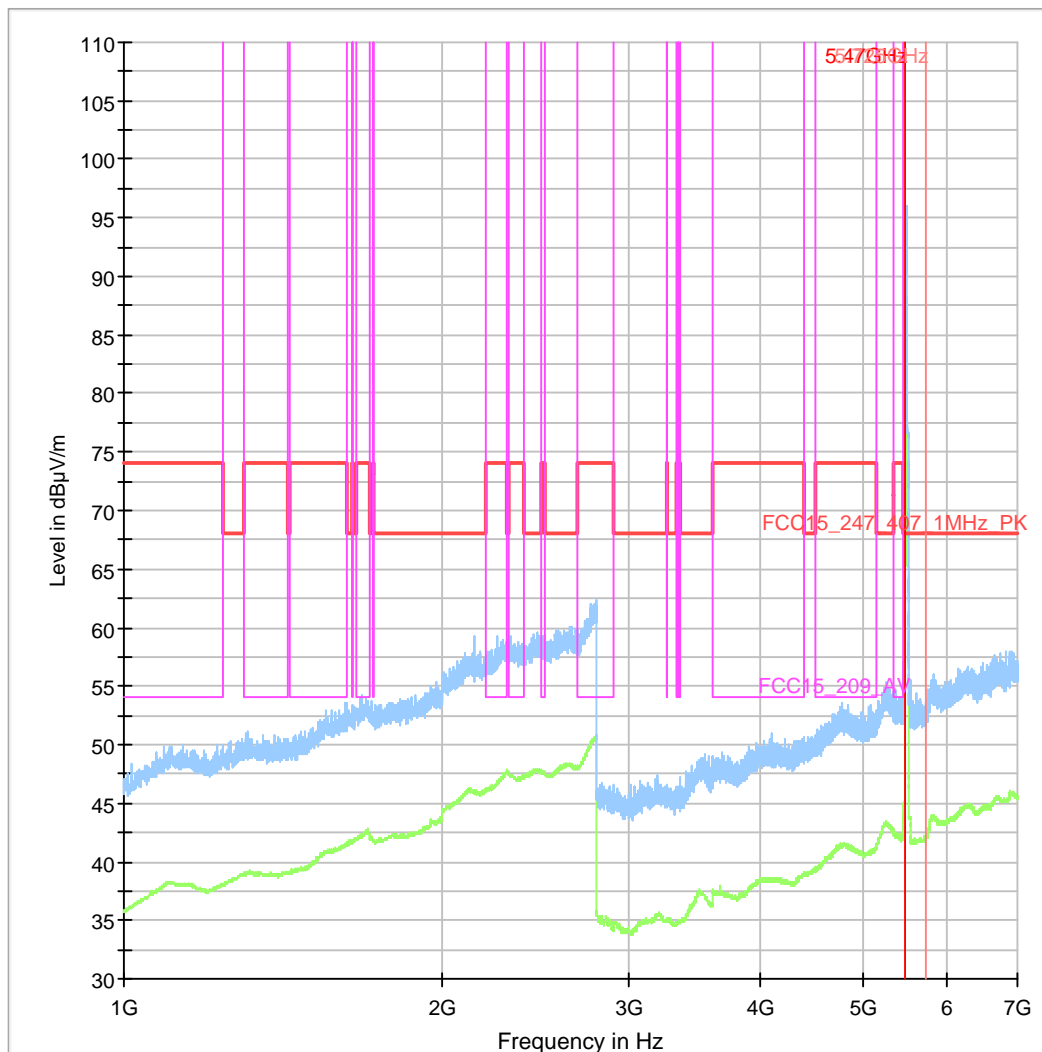


Diagram No.: 4.03_ch100_6Mbit_sweep4

Common Information

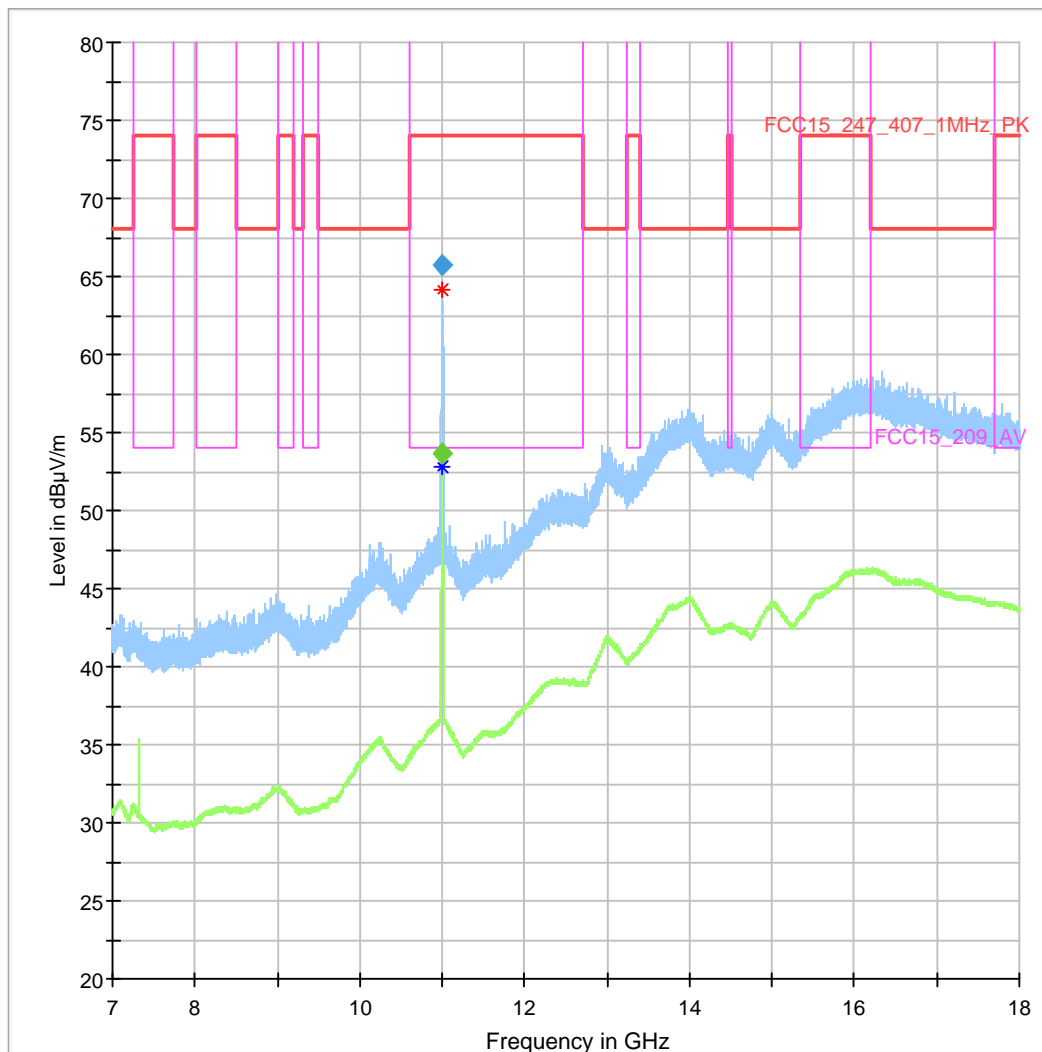
Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	MZs
Comment:	Channel no. low=100 (5500MHz)

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas . Time	Bandwidt h (kHz)	Heigh t (cm)	Po l	Azimut h (deg)	Elevatio n (deg)
10999.600000	---	53.70	54.00	0.30	100.0	1000.000	155.0	V	233.0	90.0
11001.350000	65.76	---	74.00	8.24	100.0	1000.000	155.0	V	234.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
10999.600000	12.2	15:56:45 - 05.03.2015
11001.350000	12.2	15:55:35 - 05.03.2015

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas . Time	Bandwidt h (kHz)	Heigh t (cm)	Po l	Azimut h (deg)	Elevatio n (deg)
10999.600000	---	53.70	54.00	0.30	100.0	1000.000	155.0	V	233.0	90.0
11001.350000	65.76	---	74.00	8.24	100.0	1000.000	155.0	V	234.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
10999.600000	12.2	15:56:45 - 05.03.2015
11001.350000	12.2	15:55:35 - 05.03.2015

Diagram No.: 4.04_Ch116_6Mbit_sweep3

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	KRe
Comment:	Channel no. middle=116, 6MBit

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EB77
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum

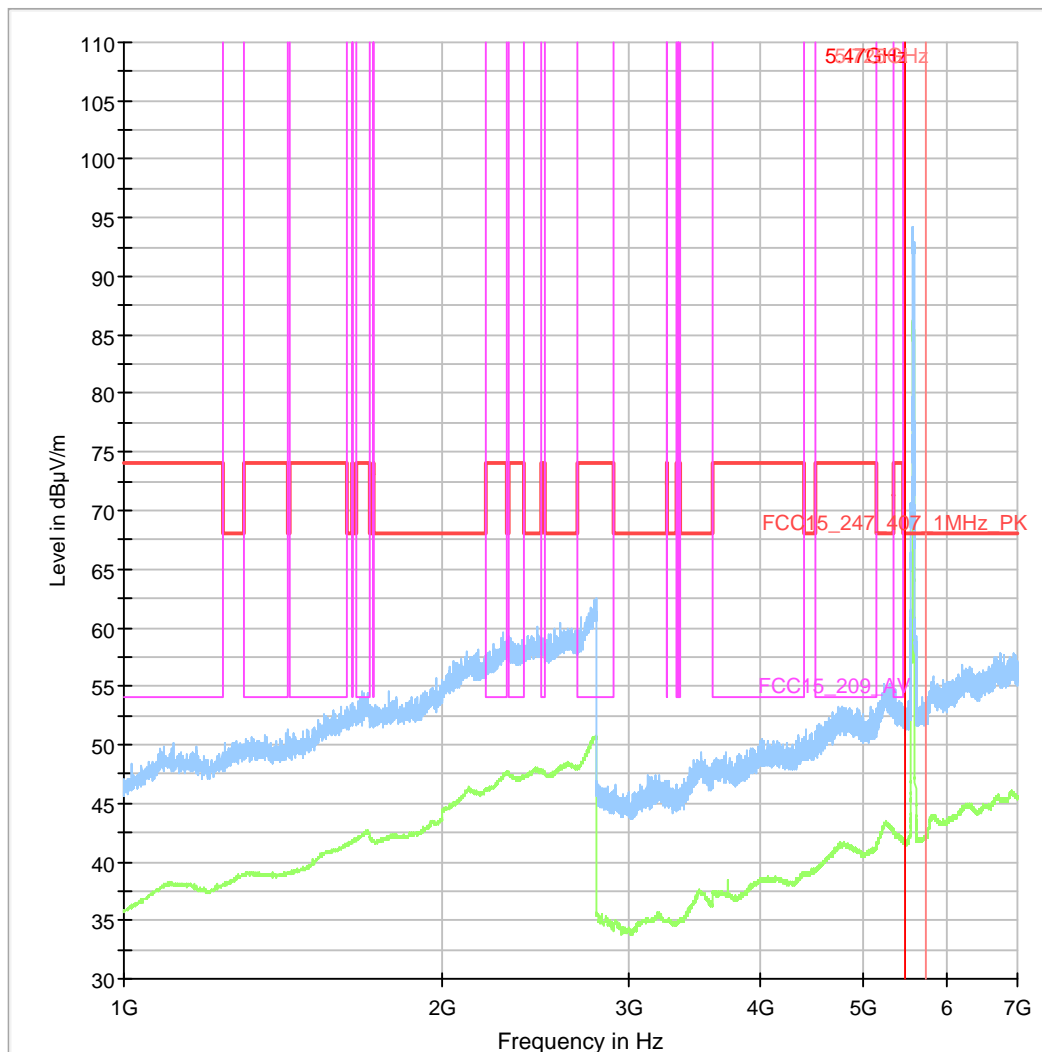


Diagram No.: 4.04_Ch116_6Mbit_sweep4

Common Information

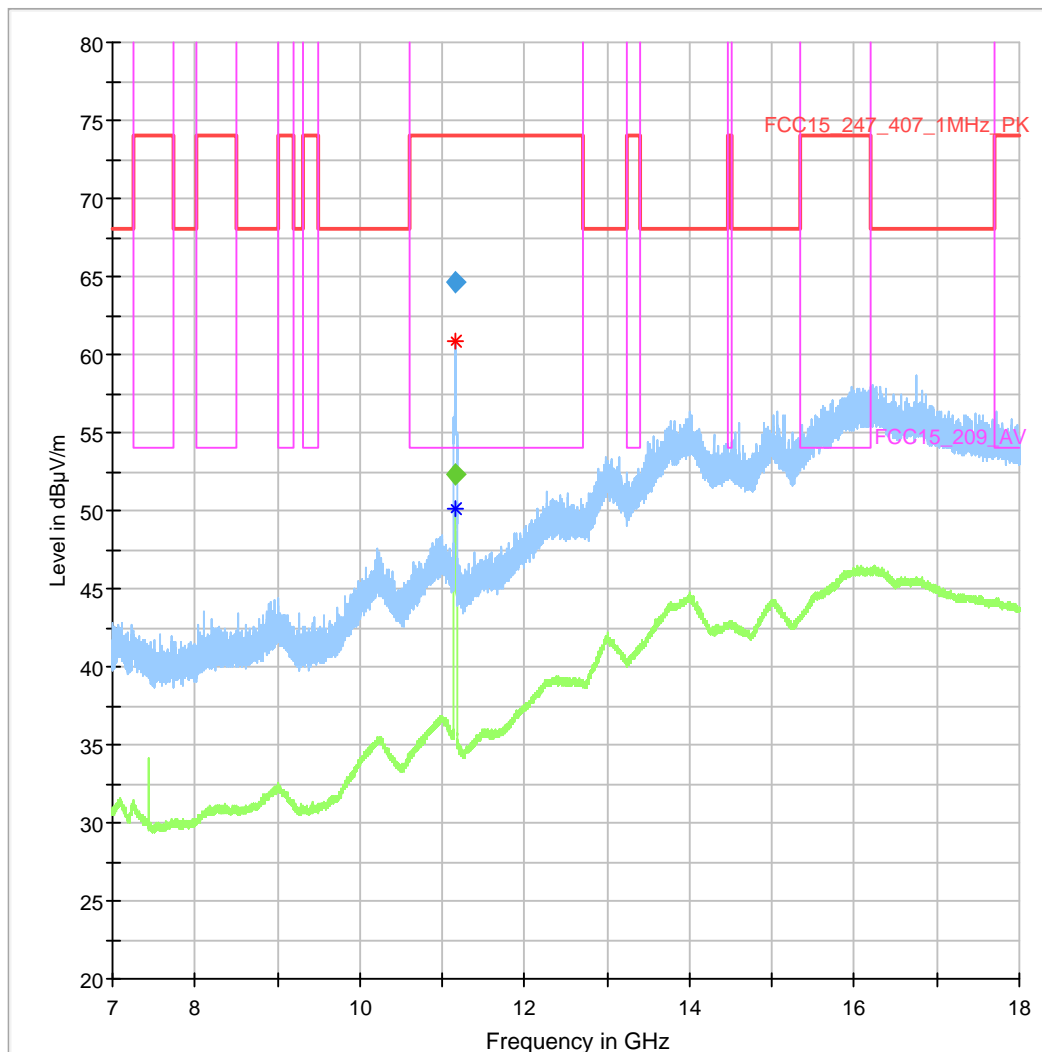
Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	npe
Comment:	Channel 116, 6MBit, gc=20

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas . Time	Bandwidt h (kHz)	Heigh t (cm)	Po l	Azimut h (deg)	Elevatio n (deg)
11159.700000	---	52.33	54.00	1.67	100.0	1000.000	155.0	V	330.0	0.0
11160.900000	64.67	---	74.00	9.33	100.0	1000.000	155.0	V	330.0	0.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
11159.700000	10.6	09:04:15 - 09.03.2015
11160.900000	10.6	09:02:49 - 09.03.2015

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas . Time	Bandwidt h (kHz)	Heigh t (cm)	Po l	Azimut h (deg)	Elevatio n (deg)
11159.700000	---	52.33	54.00	1.67	100.0	1000.000	155.0	V	330.0	0.0
11160.900000	64.67	---	74.00	9.33	100.0	1000.000	155.0	V	330.0	0.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
11159.700000	10.6	09:04:15 - 09.03.2015
11160.900000	10.6	09:02:49 - 09.03.2015

Diagram No.: 4.05_Ch140_6Mbit_sweep3

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	KRe
Comment:	Channel no. high=140, 6MBit

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EB77
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum

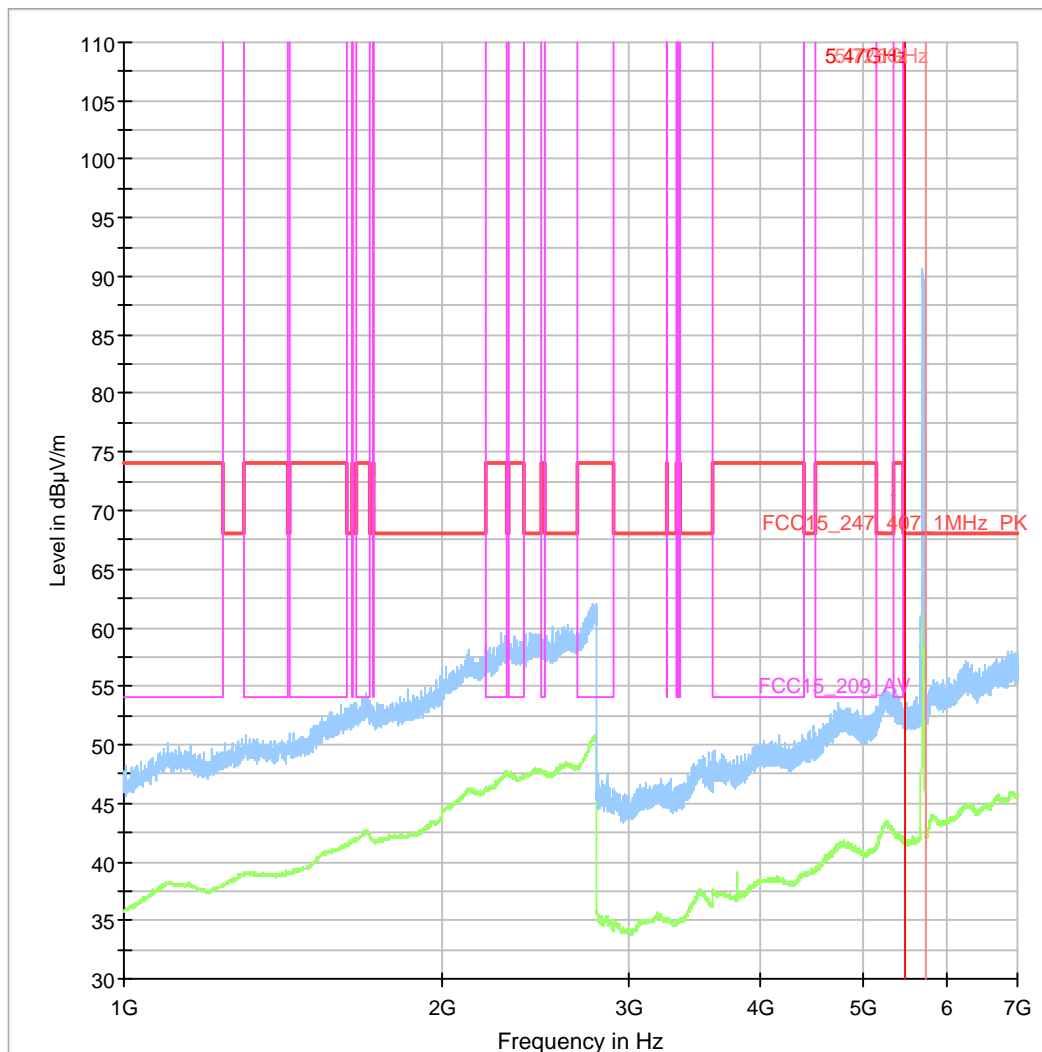


Diagram No.: 4.05_Ch140_6Mbit_sweep4

Common Information

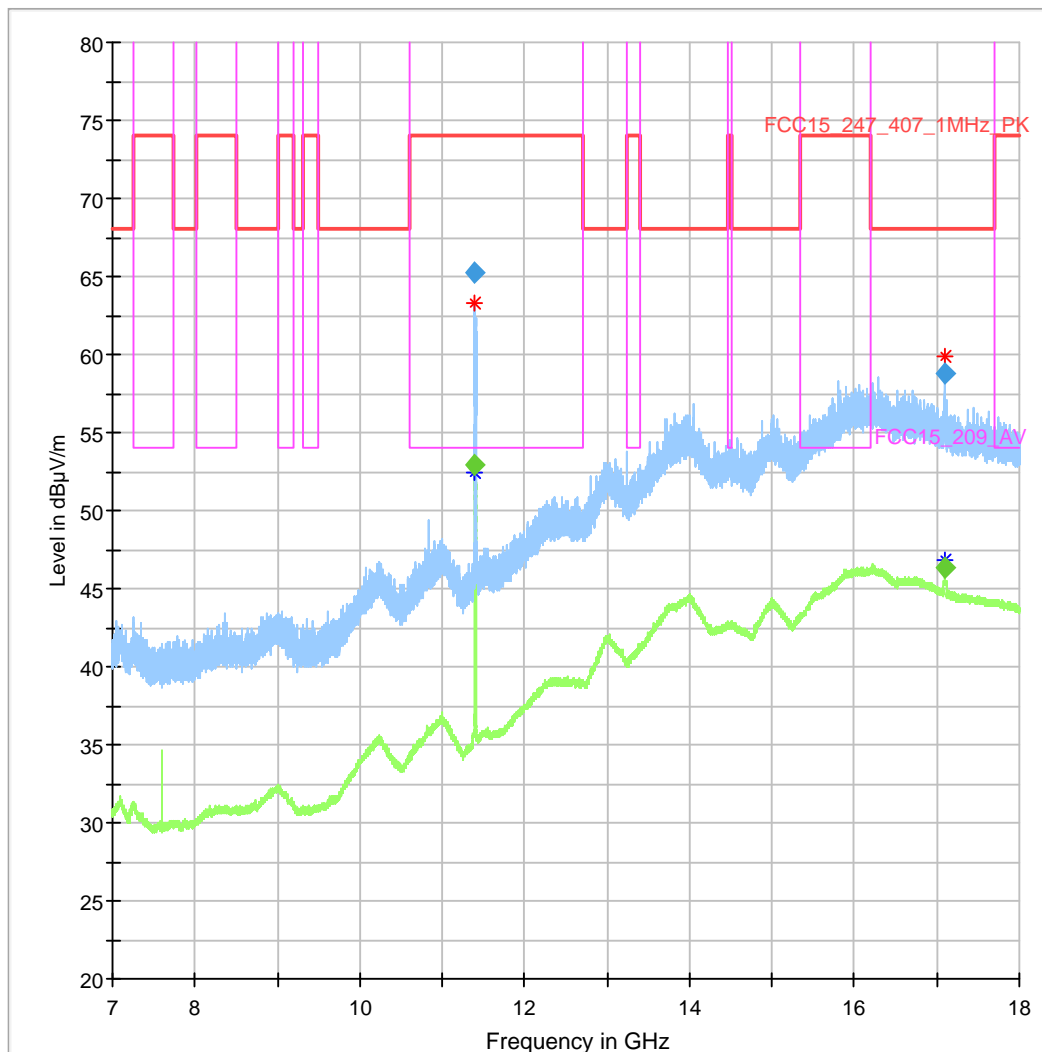
Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	MNu
Comment:	Channel 140, 6MBit, gc=35

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Po l	Azimuth (deg)	Elevation (deg)
11399.700000	---	52.87	54.00	1.13	100.0	1000.000	155.0	V	329.0	0.0
11400.900000	65.22	---	74.00	8.78	100.0	1000.000	155.0	V	328.0	0.0
17098.700000	---	46.36	150.00	103.64	100.0	1000.000	155.0	H	136.0	90.0
17102.700000	58.78	---	68.00	9.22	100.0	1000.000	155.0	H	125.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
11399.700000	10.7	09:47:44 - 09.03.2015
11400.900000	10.7	09:43:49 - 09.03.2015
17098.700000	19.8	09:45:48 - 09.03.2015
17102.700000	19.8	09:41:50 - 09.03.2015

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Po l	Azimuth (deg)	Elevation (deg)
11399.700000	---	52.87	54.00	1.13	100.0	1000.000	155.0	V	329.0	0.0
11400.900000	65.22	---	74.00	8.78	100.0	1000.000	155.0	V	328.0	0.0
17098.700000	---	46.36	150.00	103.64	100.0	1000.000	155.0	H	136.0	90.0
17102.700000	58.78	---	68.00	9.22	100.0	1000.000	155.0	H	125.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
11399.700000	10.7	09:47:44 - 09.03.2015
11400.900000	10.7	09:43:49 - 09.03.2015
17098.700000	19.8	09:45:48 - 09.03.2015
17102.700000	19.8	09:41:50 - 09.03.2015

Diagram No.: 4.06_Ch149_6Mbit_sweep3

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	KRe
Comment:	Channel no. low=149, 6MBit

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EB77
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum

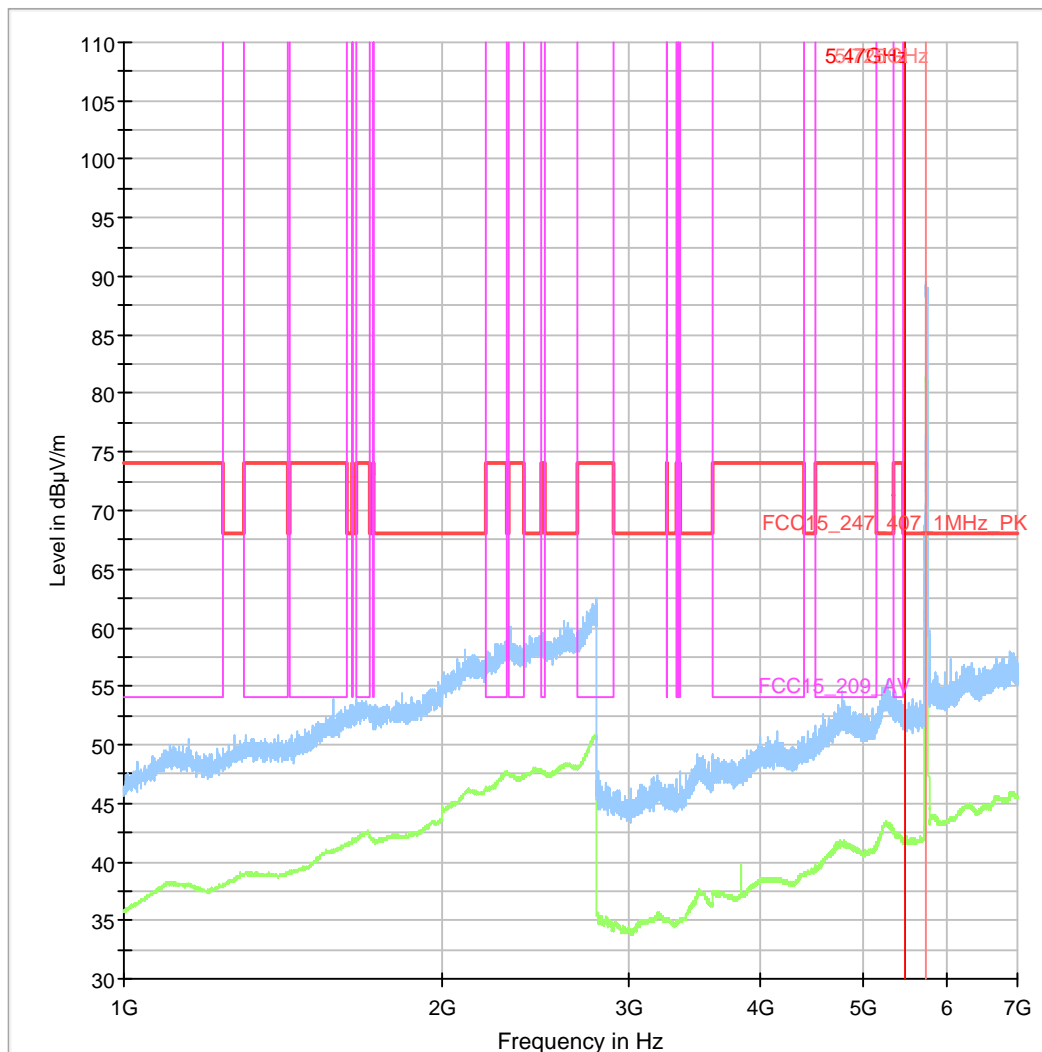


Diagram No.: 4.06_ch149_6Mbit_sweep4

Common Information

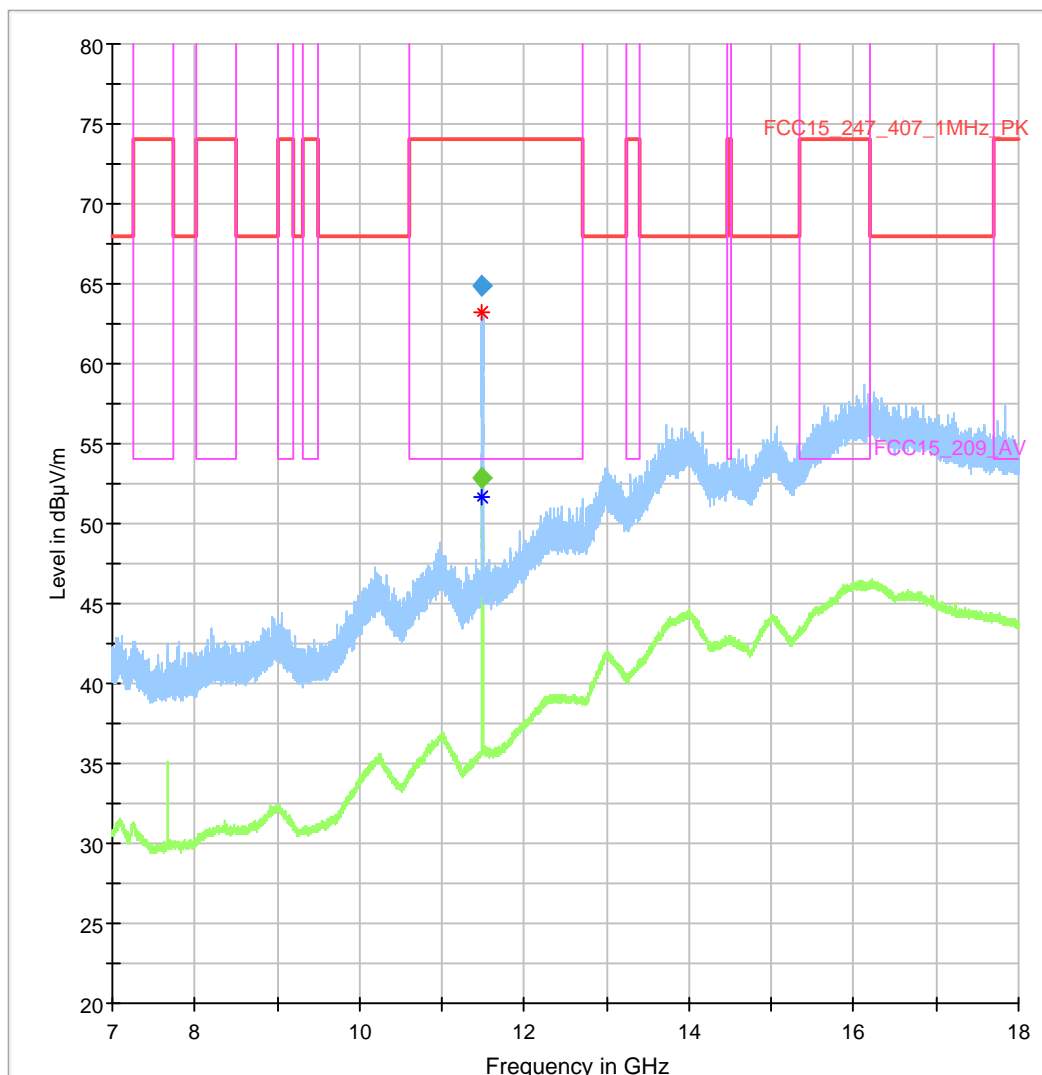
Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	AHo
Comment:	Channel no. 149,High, 6Mbit--gc=35,

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas . Time	Bandwidt h (kHz)	Heigh t (cm)	Po l	Azimut h (deg)	Elevatio n (deg)
11489.200000	64.92	---	74.00	9.08	100.0	1000.000	155.0	V	319.0	0.0
11489.700000	---	52.84	54.00	1.16	100.0	1000.000	155.0	V	320.0	0.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
11489.200000	11.2	18:03:54 - 06.03.2015
11489.700000	11.2	18:05:22 - 06.03.2015

Diagram No.: 4.07_Ch157_mcs0_sweep3

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	KRe
Comment:	Channel no. middle=157, mcs0

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EB77
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum

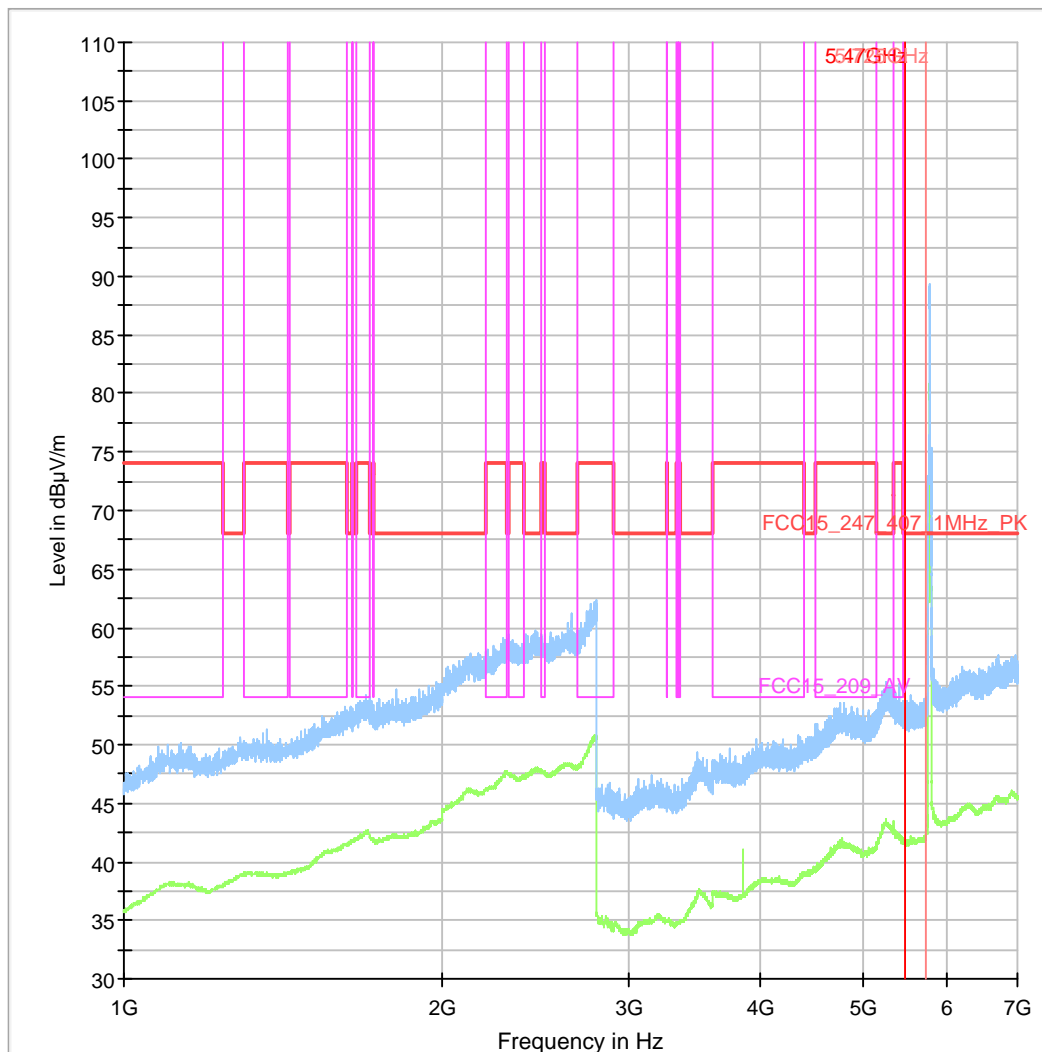


Diagram No.: 4.07_ch157_mcs0_sweep4_gc40

Common Information

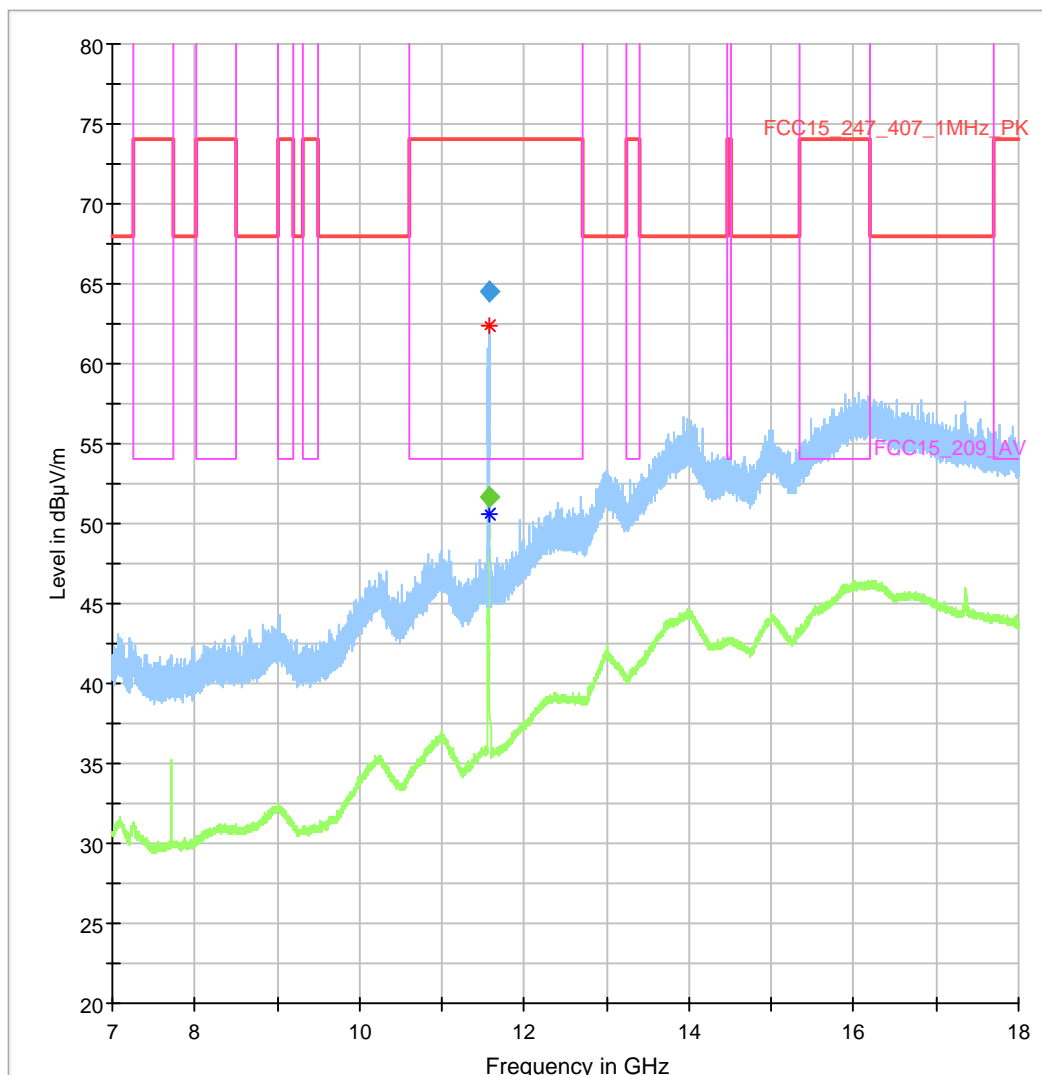
Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	AHo
Comment:	Channel no. 157,High, gc=40,mcs=0

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas . Time	Bandwidt h (kHz)	Heigh t (cm)	Po l	Azimut h (deg)	Elevatio n (deg)
11569.700000	---	51.69	54.00	2.31	100.0	1000.000	155.0	H	230.0	90.0
11570.300000	64.50	---	74.00	9.50	100.0	1000.000	155.0	H	231.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
11569.700000	11.2	16:51:39 - 06.03.2015
11570.300000	11.2	16:50:15 - 06.03.2015

Diagram No.: 4.08_Ch165_mcs2_sweep3

Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	KRe
Comment:	Channel no. high=165, mcs2

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2014-12-11_eng daily_379_214-12-11 dev-keys
Serial Number:	T26105EB77
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120V AC 60 Hz
Comments:	

Full Spectrum

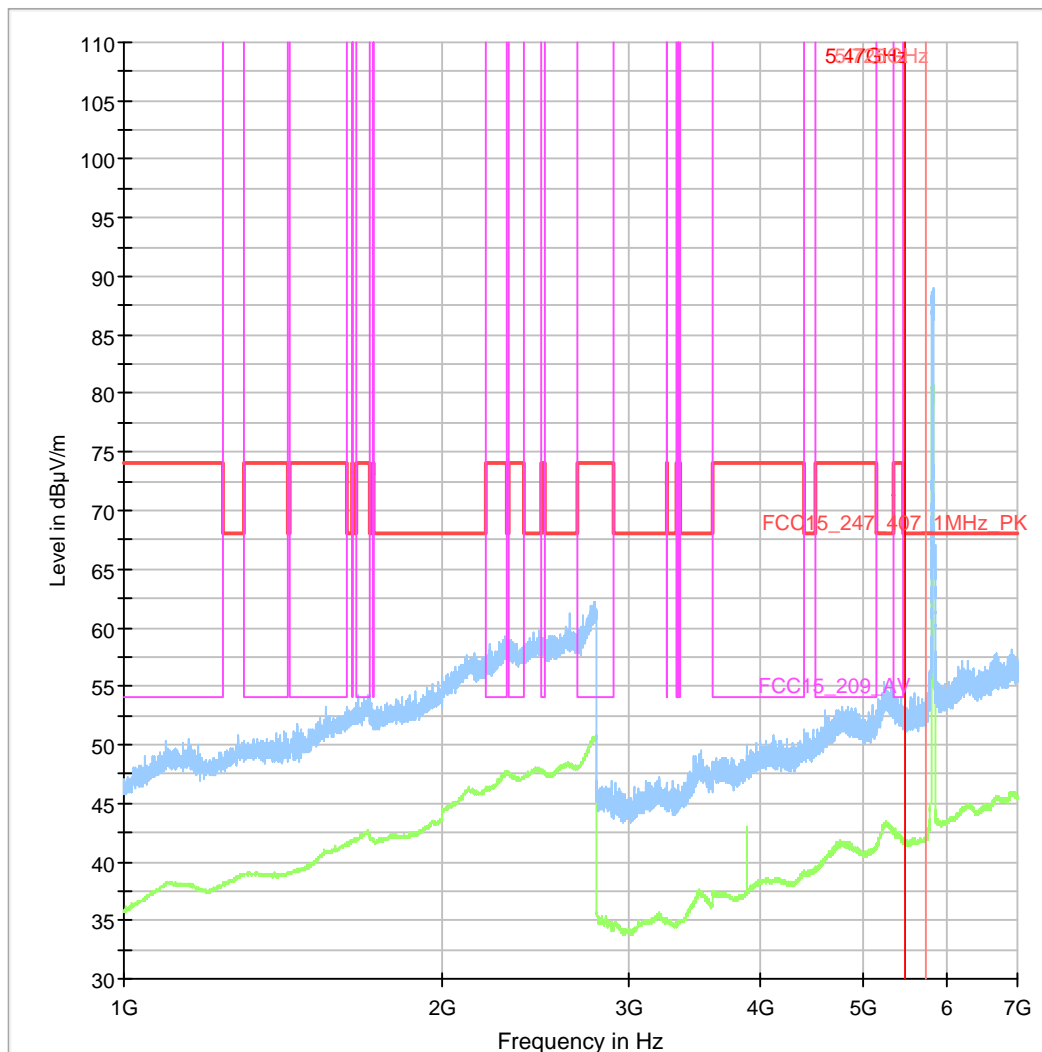


Diagram No.: 4.08_ch165_mcs2_sweep4

Common Information

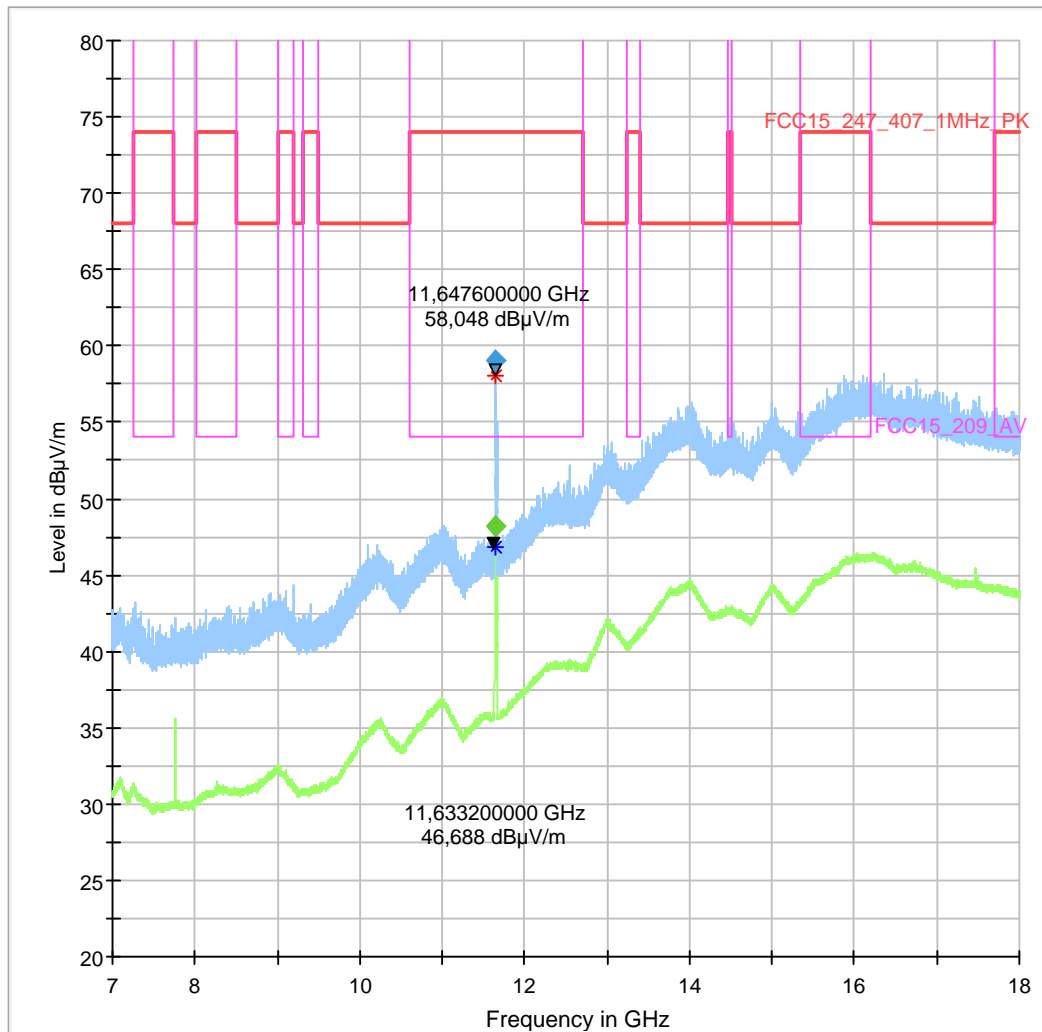
Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	Lor
Comment:	Channel no. high=165 PWR Level=40, MCS2

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas . Time	Bandwidt h (kHz)	Heigh t (cm)	Po l	Azimut h (deg)	Elevatio n (deg)
11649.000000	59.08	---	74.00	14.92	100.0	1000.000	155.0	H	231.0	90.0
11649.700000	---	48.20	54.00	5.80	100.0	1000.000	155.0	H	230.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
11649.000000	11.2	16:13:53 - 06.03.2015
11649.700000	11.2	16:15:19 - 06.03.2015

1.2.4. Field strength measurements 18GHz < f < 40GHz

Diagram No.: 4.01_ch36_mcs0_sweep5

Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX mode continuous
Operator Name:	npe
Comment:	Channel no. low=36 (5180MHz), MSC0

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	
Power Supply:	

FCC_Sweep_15.407_18_40GHz_Pre

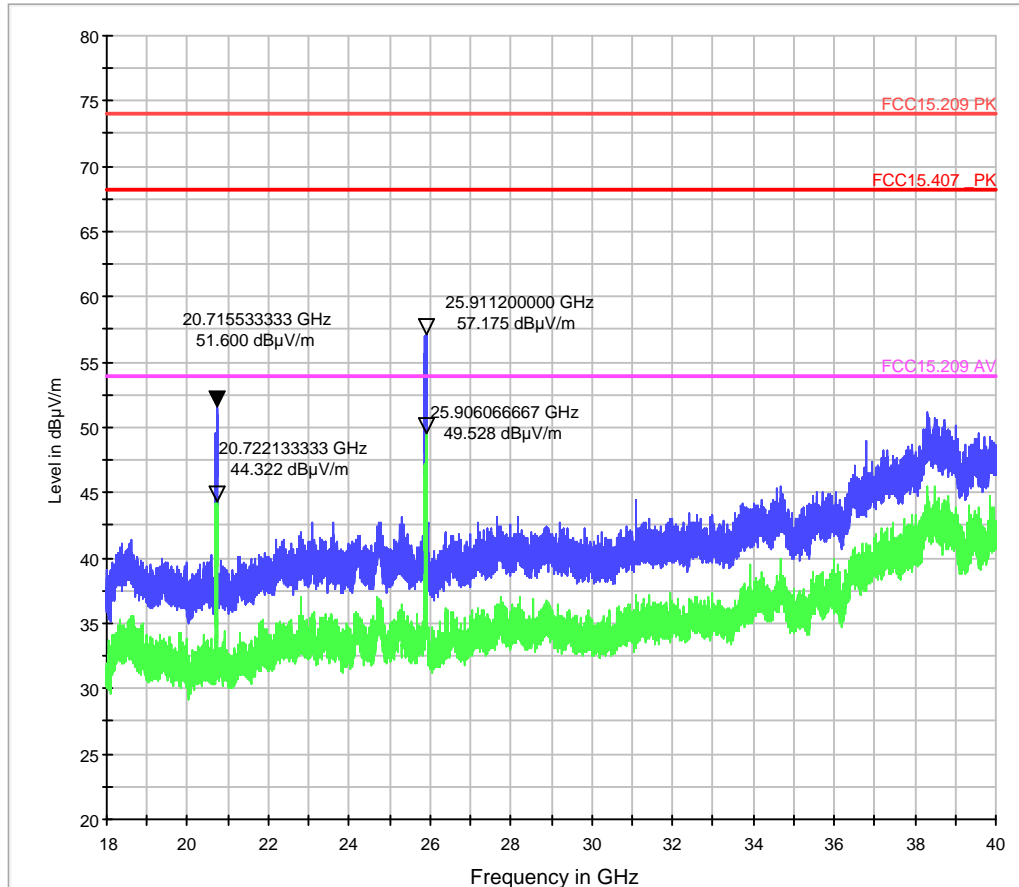


Diagram No.: 4.02_ch64_mcs1_sweep5

Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX mode continuous
Operator Name:	npe
Comment:	Channel no. 64, MSC1

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	
Power Supply:	

FCC_Sweep_15.407_18_40GHz_Pre

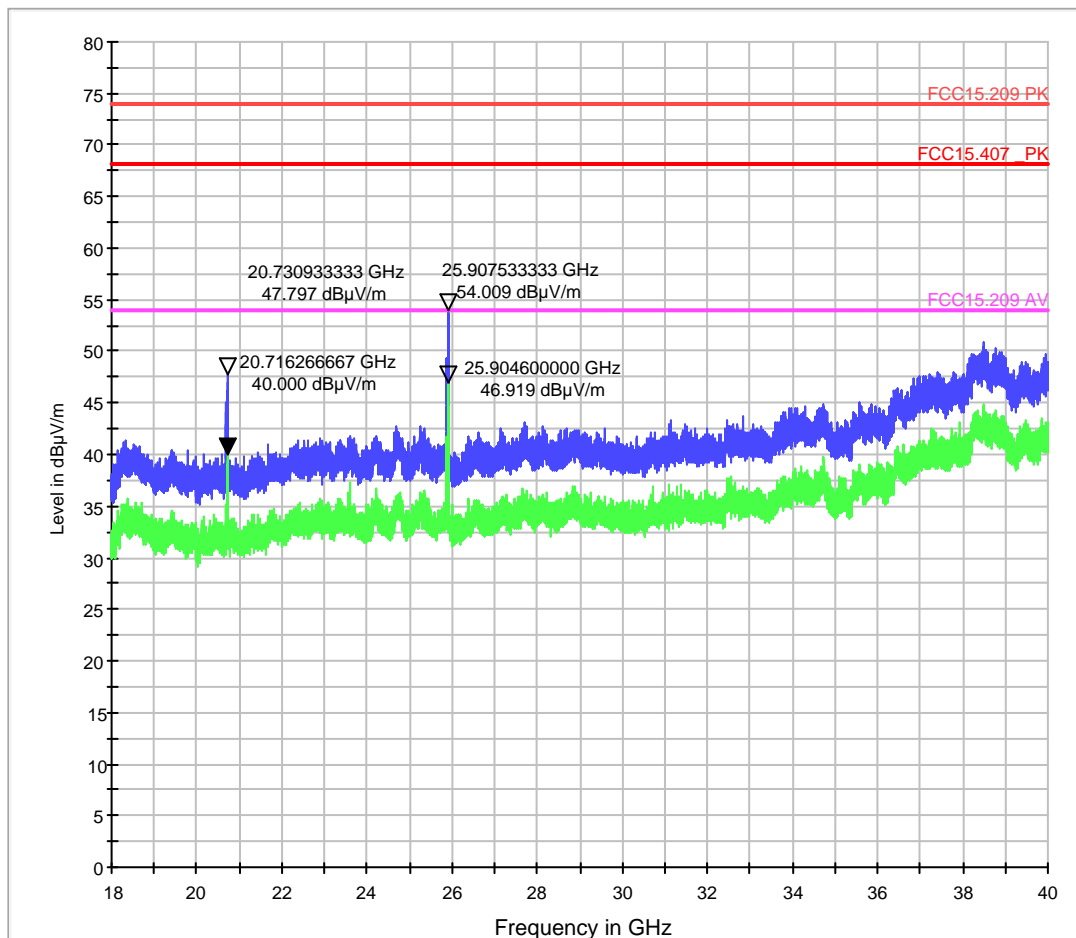


Diagram No.: 4.03_ch100_6MBit_sweep5

Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX mode continuous
Operator Name:	npe
Comment:	Channel no. 100, 6Mbit

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	
Power Supply:	

FCC_Sweep_15.407_18_40GHz_Pre

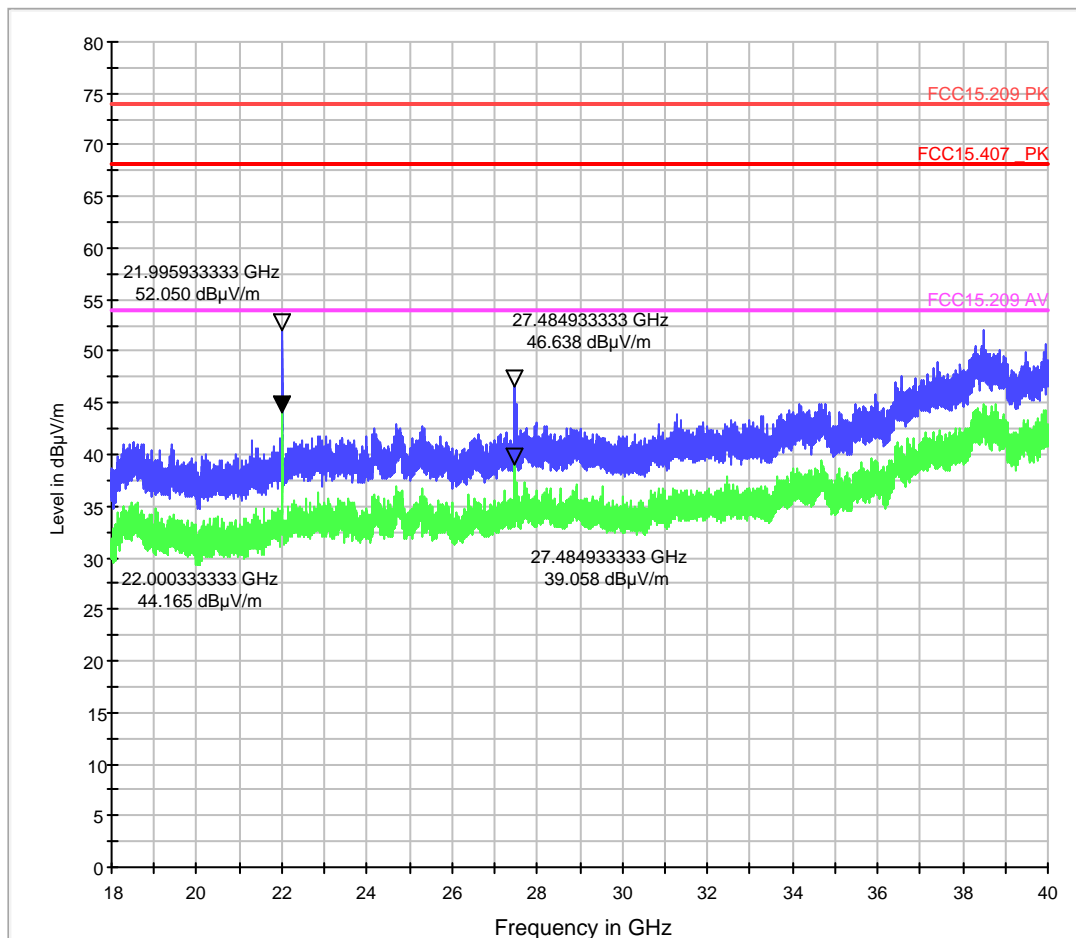


Diagram No.: 4.04_Ch116_6Mbit_sweep5

Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX mode continuous
Operator Name:	npe
Comment:	Channel no. 116, 6Mbit

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	
Power Supply:	

FCC_Sweep_15.407_18_40GHz_Pre

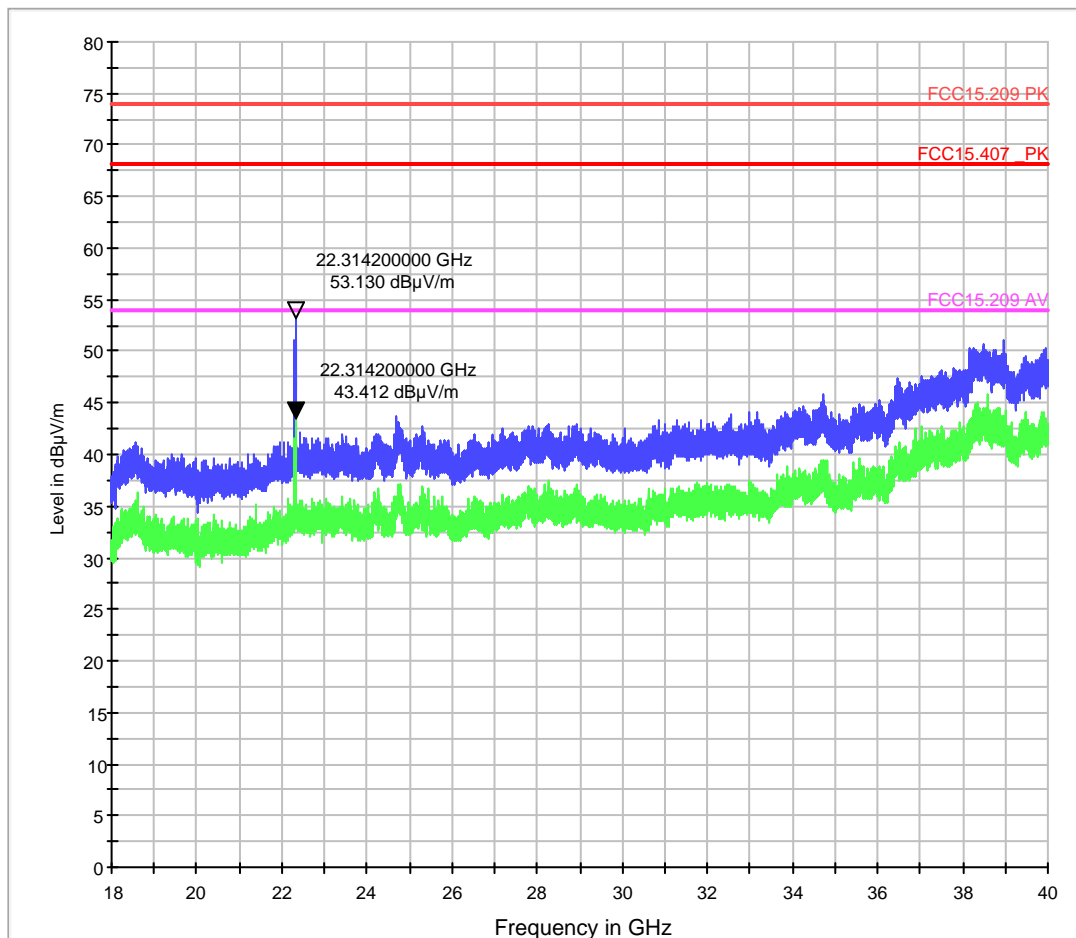


Diagram No.: 4.05_Ch140_6Mbit_sweep5

Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX mode continuous
Operator Name:	npe
Comment:	Channel no. 140, 6Mbit

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	
Power Supply:	

FCC_Sweep_15.407_18_40GHz_Pre

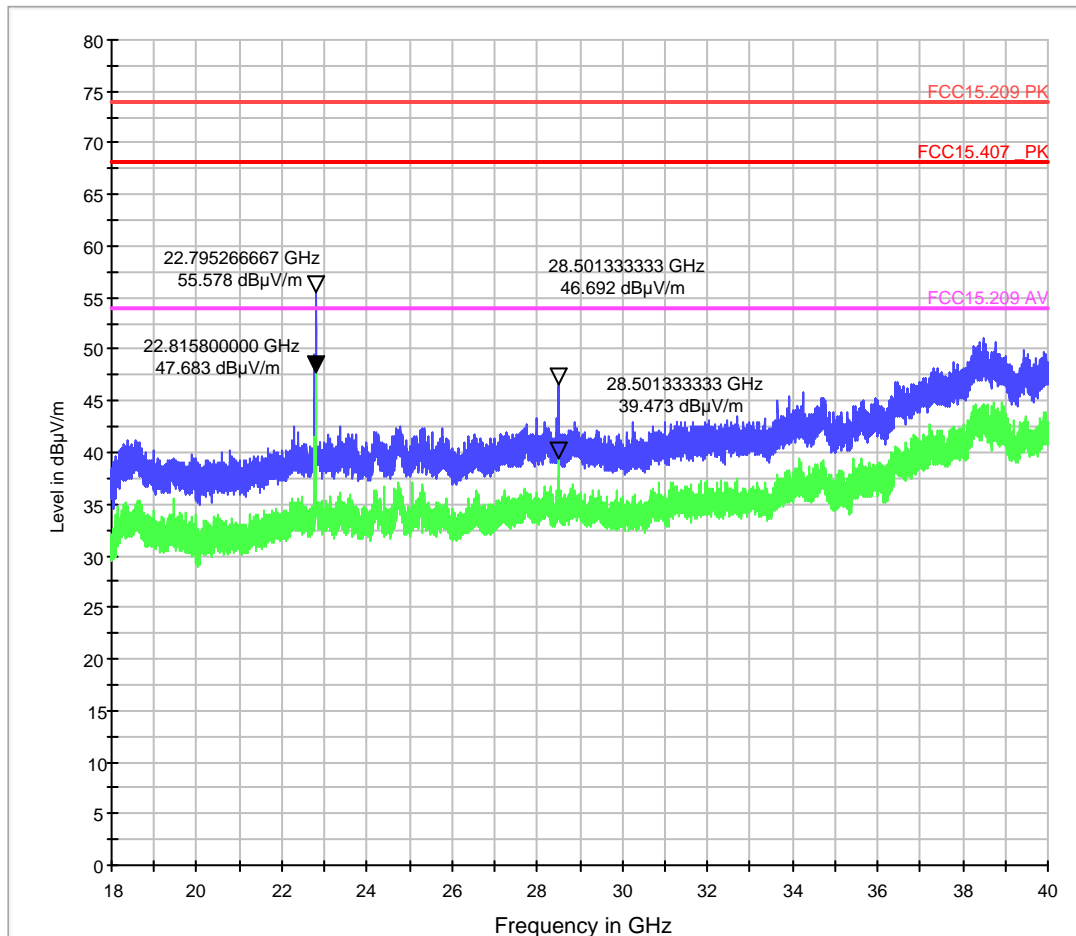


Diagram No.: 4.06_Ch149_6Mbit_sweep5

Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX mode continuous
Operator Name:	npe
Comment:	Channel no. 149, 6Mbit

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	
Power Supply:	

FCC_Sweep_15.407_18_40GHz_Pre

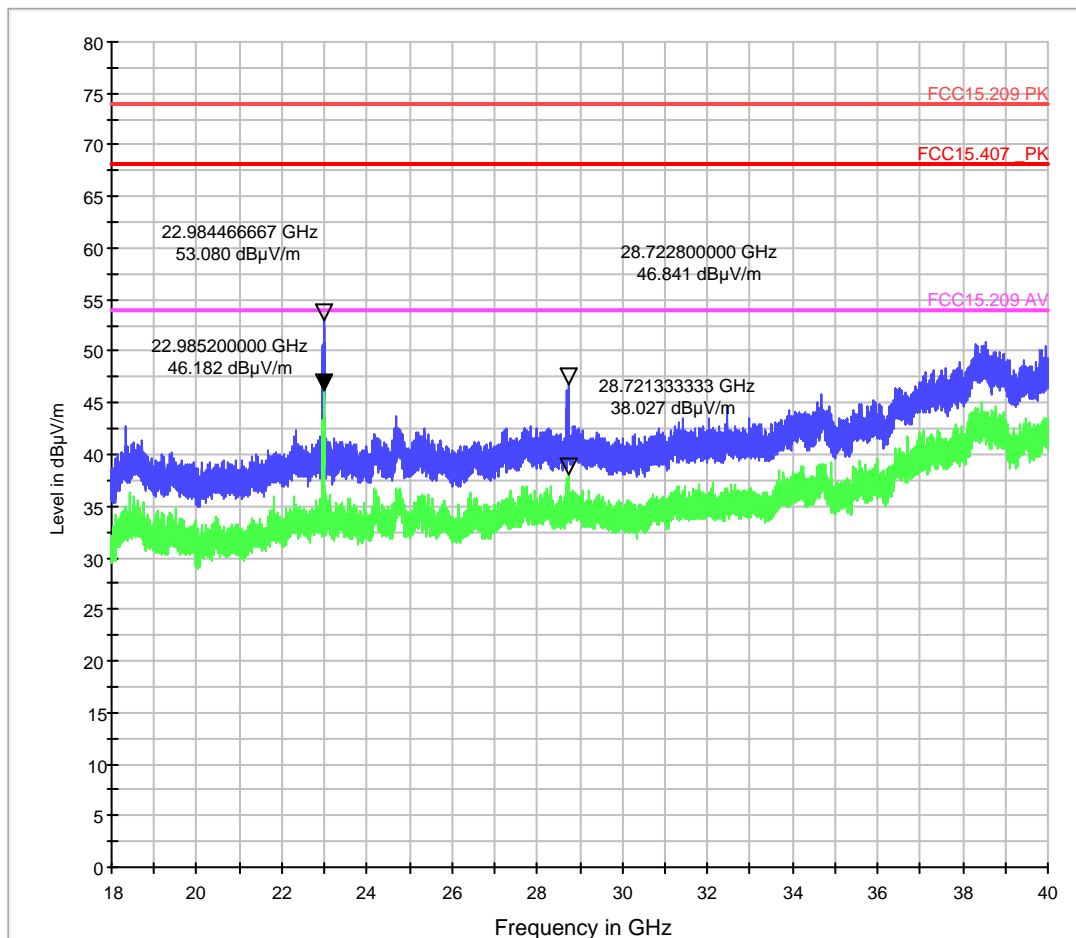


Diagram No.: 4.07_Ch157_mcs0_sweep5

Common Information

Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX mode continuous
Operator Name:	npe
Comment:	Channel no. 157, MSC0

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	
Power Supply:	

FCC_Sweep_15.407_18_40GHz_Pre

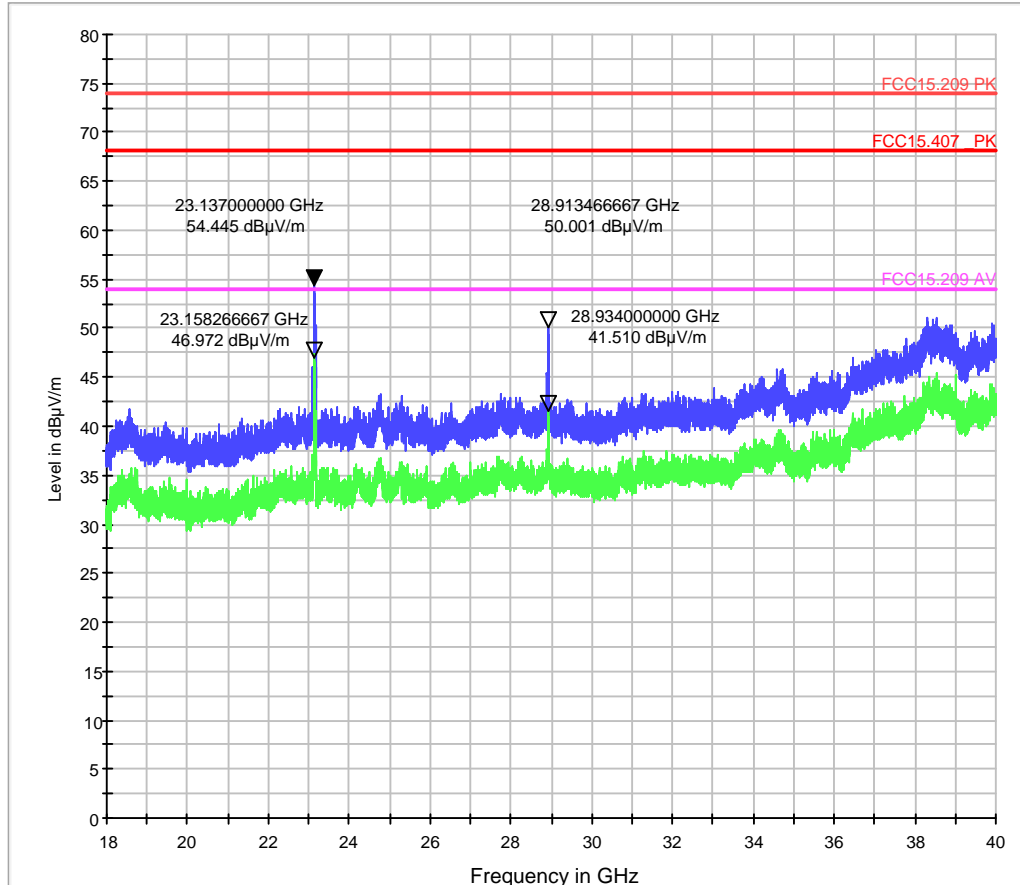


Diagram No.: 4.08_Ch165_mcs2_sweep5

Common Information

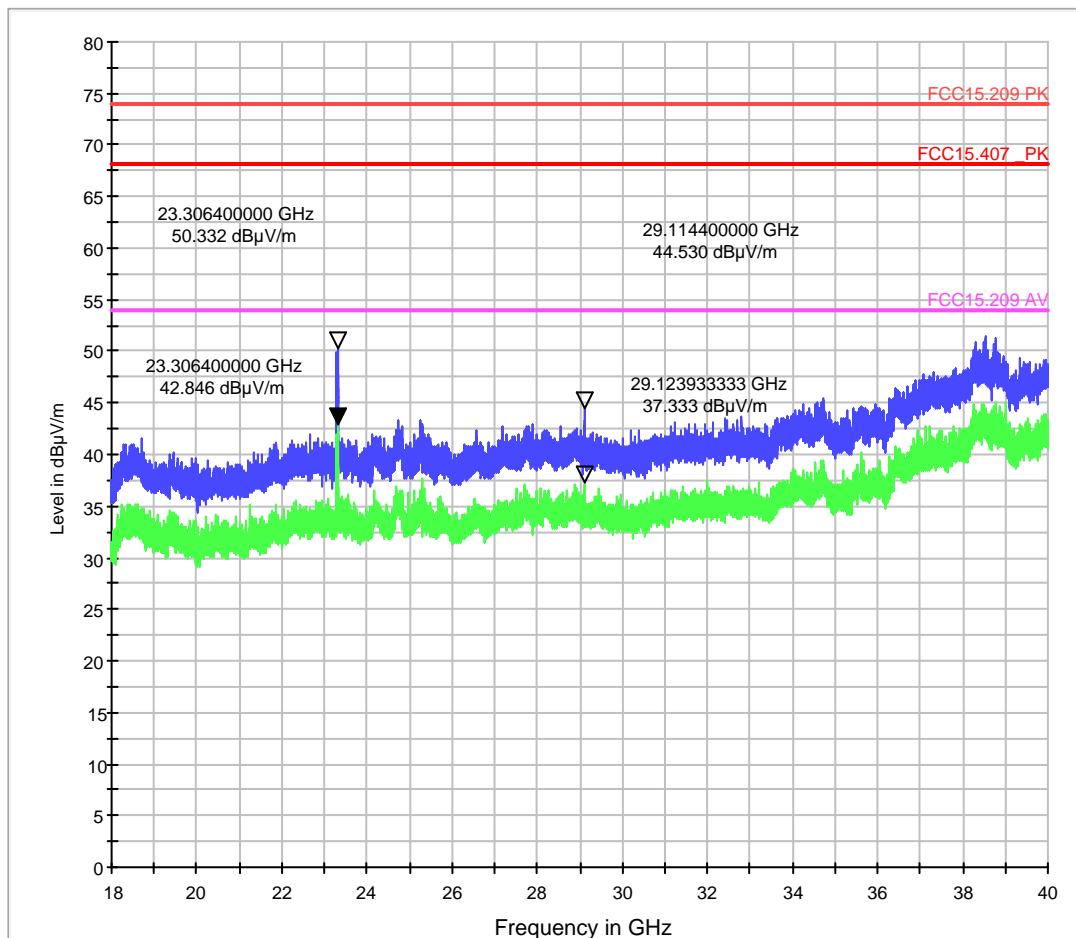
Test Description:	Radiated field strength emission in 1m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247, 15.205&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Distance correction factor	3 to 1m: -10.5 dB applying to measurement results
SW-Version:	EMC32 V8.53.0
Operation mode:	TX mode continuous
Operator Name:	npe
Comment:	Channel no. 165, MSC2

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	
Power Supply:	

FCC_Sweep_15.407_18_40GHz_Pre



1.3. Radiated band-edge measurements accord. §15.205 (§15.209) and §15.407

1.3.1. Channel 36 (20MHz Signal BW - left band edge)

Diagram No.: 9.01_BE_Low_Ch36_MCS0

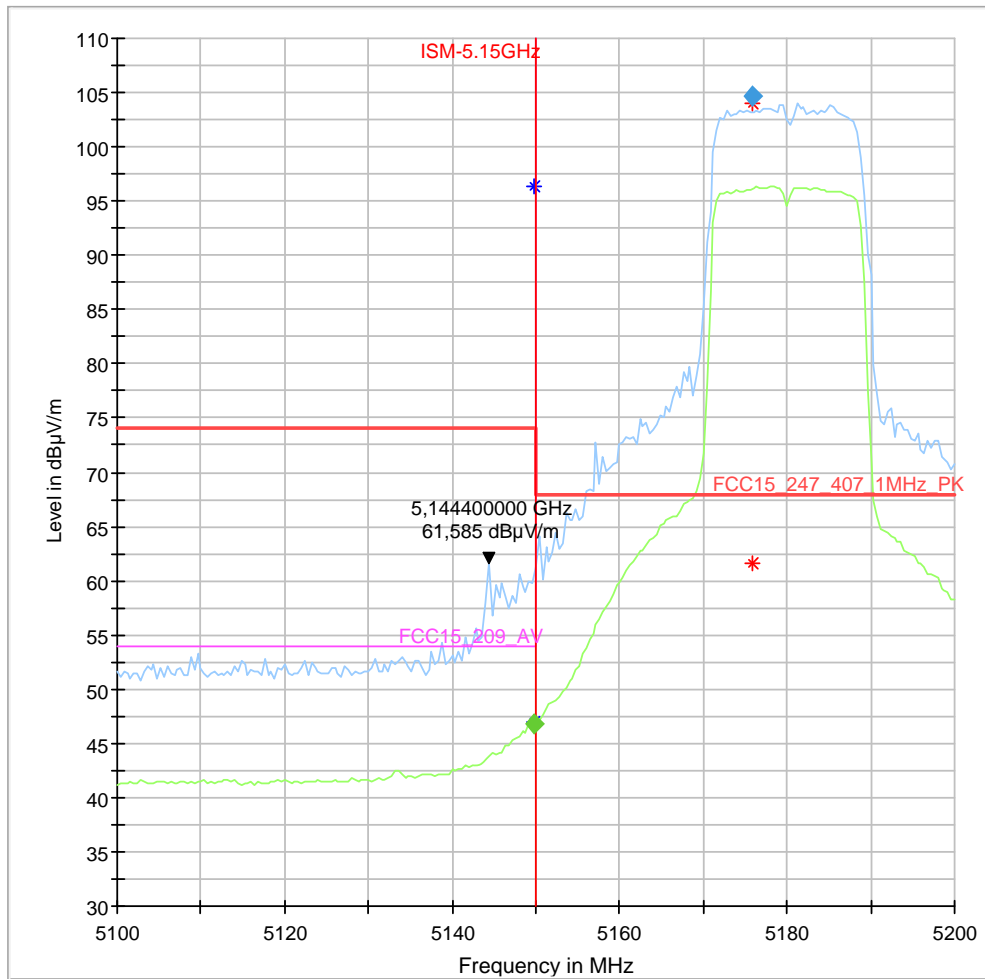
Common Information

Test Description:	Radiated field strength emission in 3m distance (Band-Edge)
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.205 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	Lor
Comment:	Channel no. low=36 MCS0, PWR Setting=25

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF
-----	-----
HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	--
Power Supply:	120VAC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
5149.750000	---	46.87	54.00	7.13	100.0	1000.000	155.0	H	128.0	0.0
5175.950000	104.65	---	68.00	-36.65	100.0	1000.000	155.0	H	88.0	0.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr.	Comment
5149.750000	10.8	09:12:19 - 11.03.2015
5175.950000	11.4	09:07:35 - 11.03.2015

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
5149.750000	---	46.87	54.00	7.13	100.0	1000.000	155.0	H	128.0	0.0
5175.950000	104.65	---	68.00	-36.65	100.0	1000.000	155.0	H	88.0	0.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr.	Comment
5149.750000	10.8	09:12:19 - 11.03.2015
5175.950000	11.4	09:07:35 - 11.03.2015

1.3.2. Channel 64 (20MHz Signal BW - right band edge)

Diagram No.: 9.02_BE_High_Ch64_MCS1

Common Information

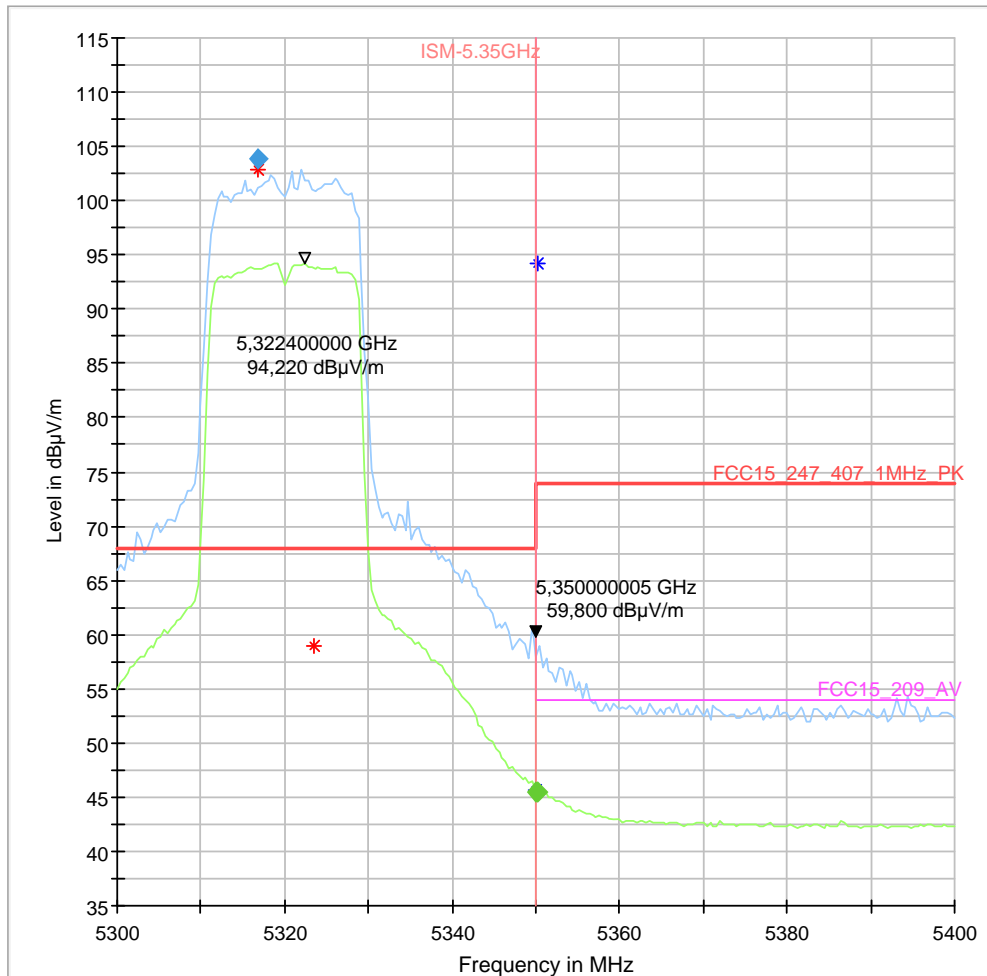
Test Description:	Radiated field strength emission in 3m distance (Band-Edge)
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.205 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	KMo
Comment:	Channel no. high=64 MCS1, PWR Setting: 20

EUT Information

Manufacturer:	Ascom AB
EUT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Po l	Azimuth (deg)	Elevation (deg)
5316.750000	103.80	---	68.00	-35.80	100.0	1000.000	155.0	H	301.0	0.0
5350.000000	---	45.50	54.00	8.50	100.0	1000.000	155.0	H	294.0	0.0
5350.150000	---	45.41	54.00	8.59	100.0	1000.000	155.0	H	295.0	0.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
5316.750000	12.4	09:32:41 - 11.03.2015
5350.000000	12.2	09:36:19 - 11.03.2015
5350.150000	12.2	09:35:05 - 11.03.2015

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Po l	Azimuth (deg)	Elevation (deg)
5316.750000	103.80	---	68.00	-35.80	100.0	1000.000	155.0	H	301.0	0.0
5350.000000	---	45.50	54.00	8.50	100.0	1000.000	155.0	H	294.0	0.0
5350.150000	---	45.41	54.00	8.59	100.0	1000.000	155.0	H	295.0	0.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
5316.750000	12.4	09:32:41 - 11.03.2015
5350.000000	12.2	09:36:19 - 11.03.2015
5350.150000	12.2	09:35:05 - 11.03.2015

1.3.3. Channel 100 (20MHz Signal BW - left band edge)

Diagram No.: 9.03_BE_Low_Ch100_6MBit

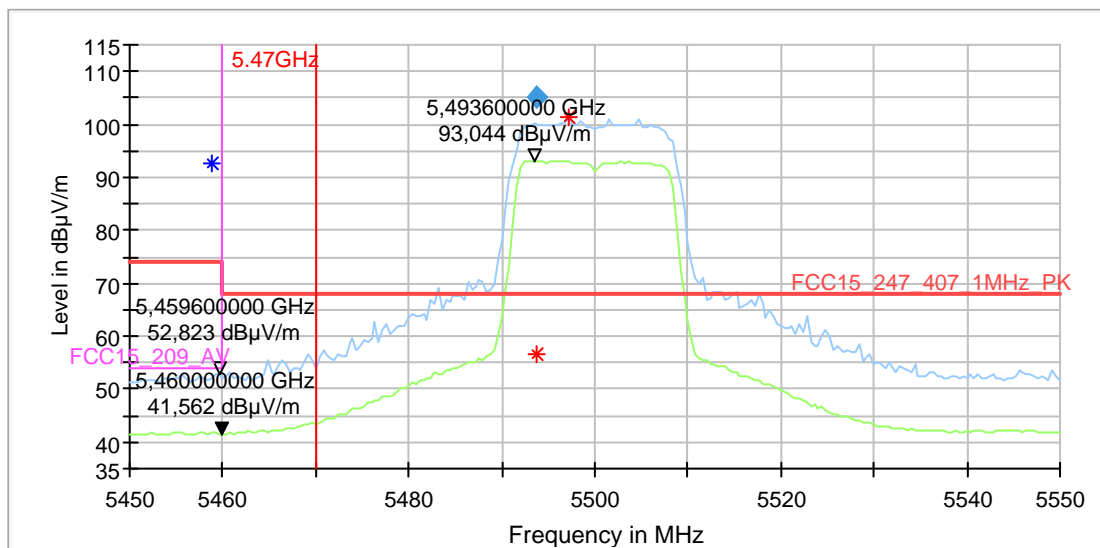
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: CETECOM GmbH Essen
 Test Standard: FCC 15.407&15.209 Intentional Radiator
 Antenna polarisation: horizontal/vertical
 Operation mode: TX, continuous
 Operator Name: Lor
 Comment: Channel no. low=100
 6Mbit, PWR Setting=20

EUT Information

Manufacturer: Ascom AB
 EuT: SH1-ACAA/PF
 HW Version:
 SW Version: myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
 Serial Number: T26105GL8N
 Connected Interfaces: 1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
 Power Supply: 120VAC
 Comments:

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Po l	Azimuth (deg)	Elevation (deg)
5493.750000	105.04	---	68.00	-37.04	100.0	1000.000	155.0	H	16.0	0.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
5493.750000	11.3	09:56:16 - 11.03.2015

1.3.4. Channel 140 (20MHz Signal BW - right band edge)

Diagram No.: 9.05_BE_High_Ch140_6MBit

Common Information

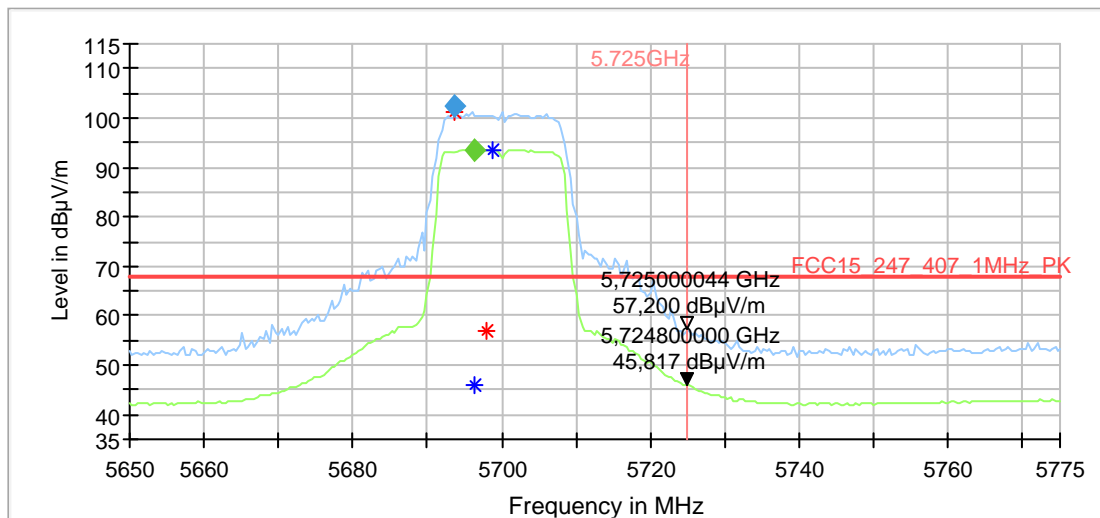
Test Description: Radiated field strength emission in 3m distance
 Test Site: CETECOM GmbH Essen
 Test Standard: FCC 15.407&15.209 Intentional Radiator
 Antenna polarisation: horizontal/vertical
 Operation mode: TX, continuous
 Operator Name: Lor
 Comment: Channel no. low=140
 6Mbit, PWR Setting=35

EUT Information

Manufacturer: Ascom AB
 EuT: SH1-ACAA/PF

 HW Version:
 SW Version: myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
 Serial Number: T26105GL8N
 Connected Interfaces: 1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
 Power Supply: 120VAC
 Comments:

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)
5693.750000	102.28	---	68.00	-34.28	100.0	1000.000	155.0	H	314.0	90.0
5696.450000	---	93.60	150.00	56.40	100.0	1000.000	155.0	H	314.0	90.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr	Comment
5693.750000	11.5	10:15:56 - 11.03.2015
5696.450000	11.6	10:19:25 - 11.03.2015

1.3.5. Channel 149 (20MHz Signal BW - left band edge)

Diagram No.: 9.06_BE_Low_Ch149_6MBit

Common Information

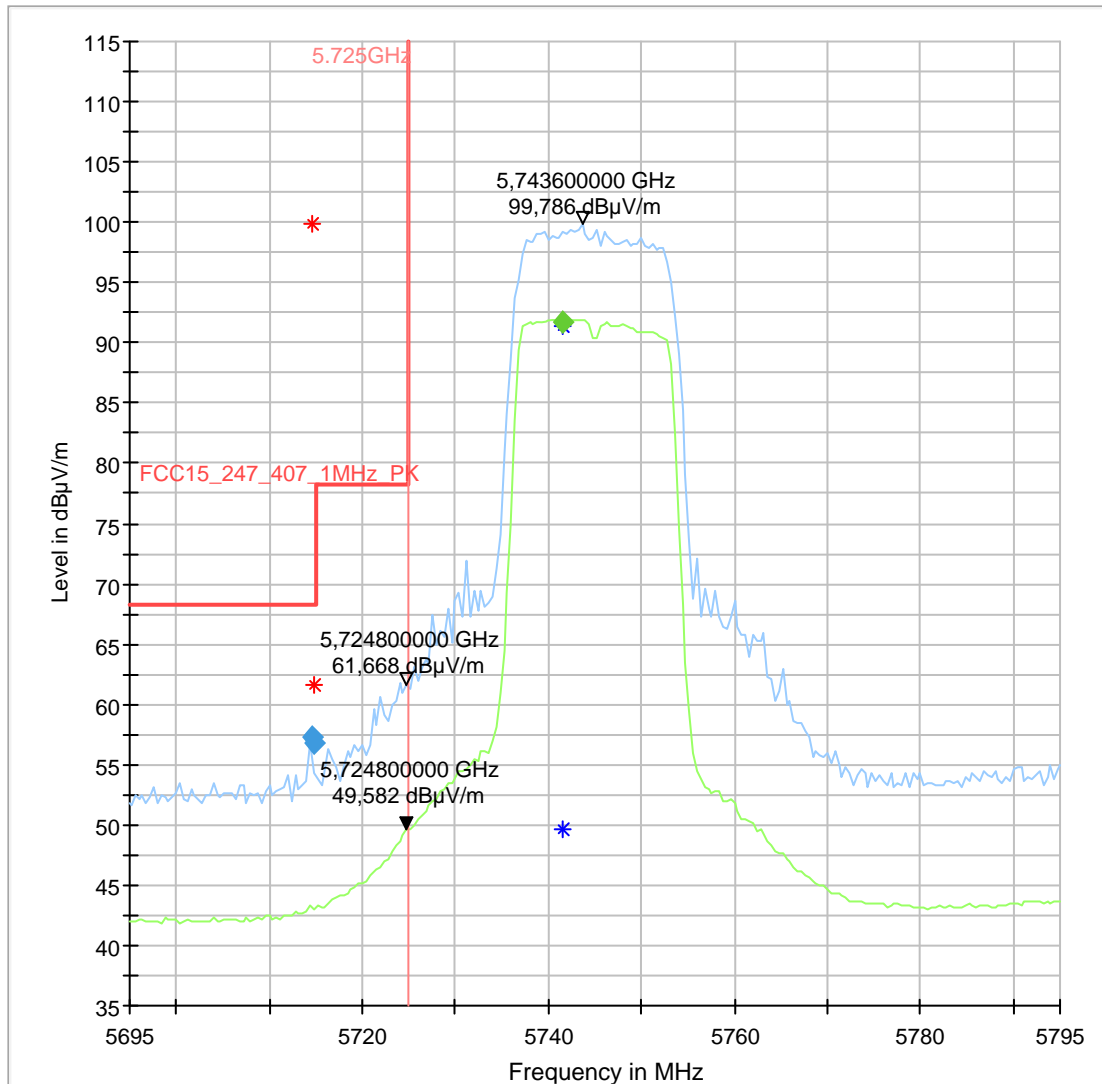
Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	Lor
Comment:	Channel no. low=149 6Mbit, PWR Setting=35

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF

HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margi n (dB)	Meas . Time	Bandwidt h (kHz)	Heigh t (cm)	Po l	Azimet h (deg)	Elevatio n (deg)
5714.600000	57.21	---	68.20	10.99	100.0	1000.000	155.0	H	85.0	90.0
5714.800000	56.76	---	68.20	11.44	100.0	1000.000	155.0	H	81.0	90.0
5741.600000	---	91.77	150.00	58.23	100.0	1000.000	155.0	V	90.0	0.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
5714.600000	11.7	10:46:18 - 11.03.2015
5714.800000	11.7	10:45:07 - 11.03.2015
5741.600000	11.8	10:48:57 - 11.03.2015

1.3.6. Channel 161 (20MHz Signal BW - right band edge)

Diagram No.: 9.07_BE_High_Ch161_MCS0

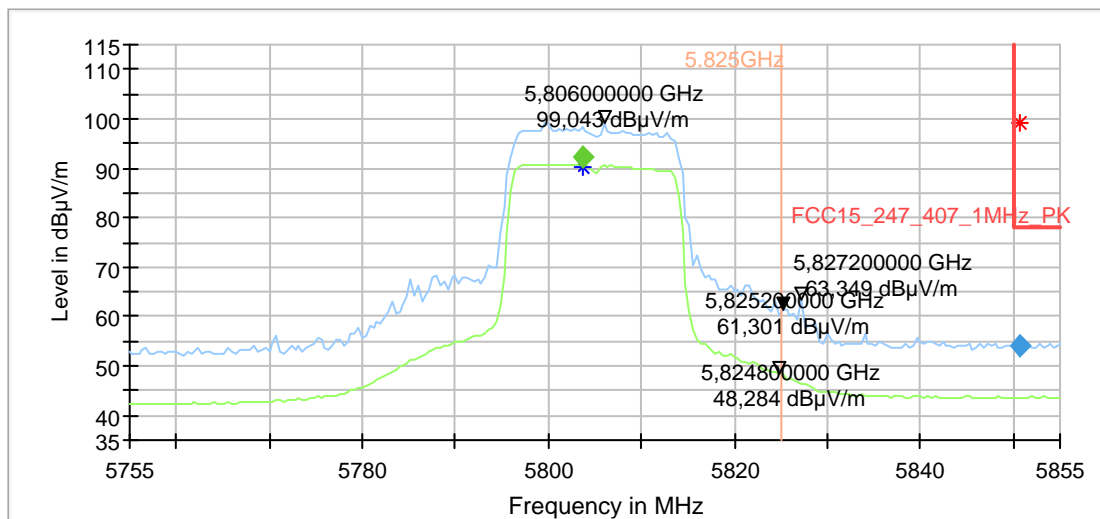
Common Information

Test Description: Radiated field strength emission in 3m distance
 Test Site: CETECOM GmbH Essen
 Test Standard: FCC 15.407&15.209 Intentional Radiator
 Antenna polarisation: horizontal/vertical
 Operation mode: TX, continuous
 Operator Name: Lor
 Comment: Channel no. low=161
 Mcs0, PWR Setting=40

EUT Information

Manufacturer: Ascom AB
 EuT: SH1-ACAA/PF
 HW Version:
 SW Version: myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
 Serial Number: T26105GL8N
 Connected Interfaces: 1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
 Power Supply: 120VAC
 Comments:

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Po l	Azimuth (deg)	Elevation (deg)
5803.700000	---	92.38	150.00	57.62	100.0	1000.000	155.0	V	152.0	0.0
5850.750000	54.09	---	78.20	24.11	100.0	1000.000	155.0	V	164.0	0.0
5863.700000	53.28	---	68.20	14.92	100.0	1000.000	155.0	V	105.0	0.0

(continuation of the "Final_Result" table from column 16...)

Frequency (MHz)	Corr .	Comment
5803.700000	13.5	11:23:09 - 11.03.2015
5850.750000	13.5	11:20:39 - 11.03.2015
5863.700000	13.3	11:21:57 - 11.03.2015

1.3.7. Channel 165 (20MHz Signal BW - right band edge)

Diagram No.: 9.08_BE_High_Ch165_MCS2

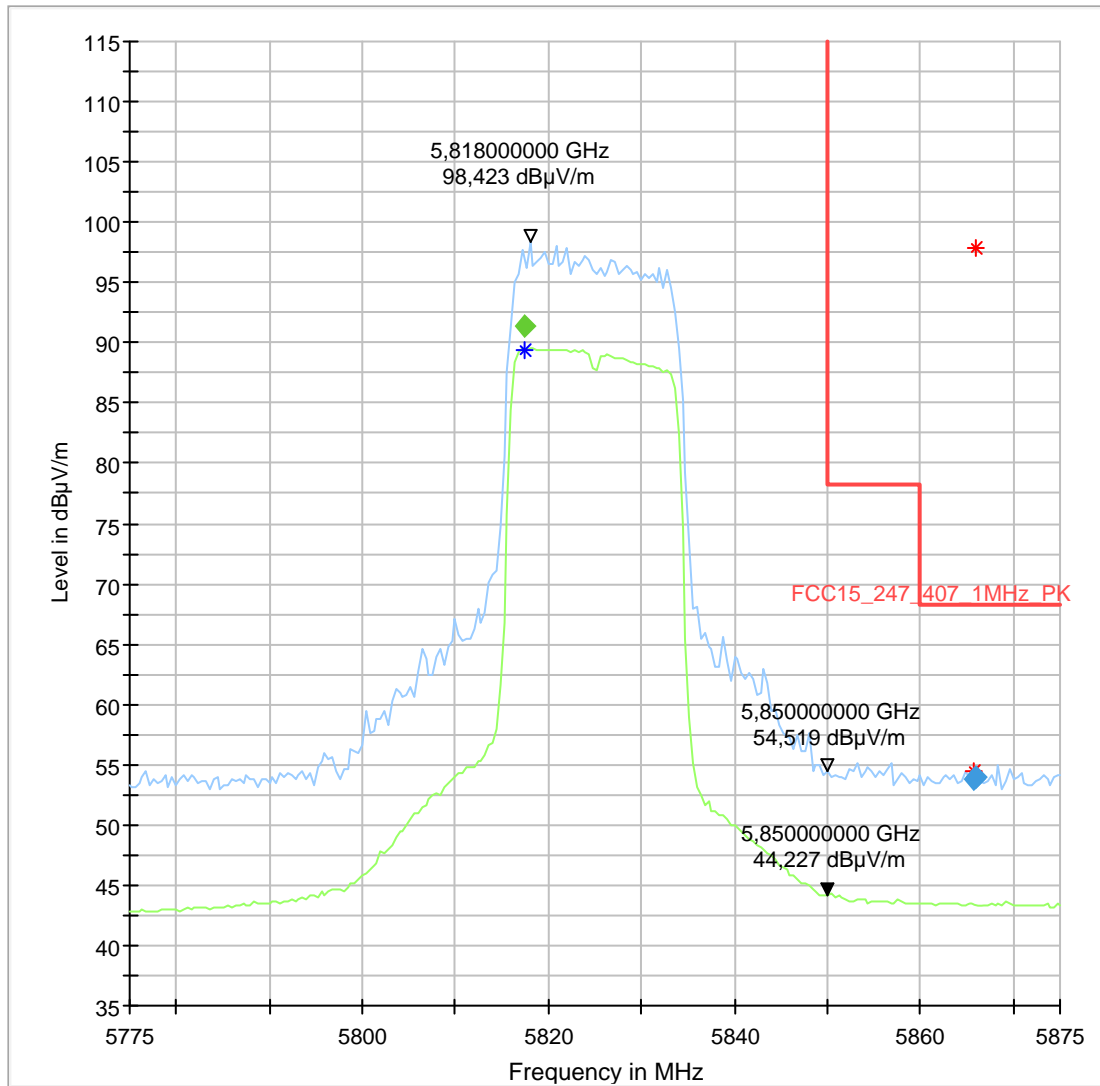
Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.407&15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	Lor
Comment:	Channel no. High=165 MCS2, PWR Setting: 40

EUT Information

Manufacturer:	Ascom AB
EuT:	SH1-ACAA/PF
-----	-----
HW Version:	
SW Version:	myco-eng 4.4.2 daily_2015-02-20_eng daily_448_2015-02-20 dev-keys
Serial Number:	T26105GL8N
Connected Interfaces:	1m USB cable + USB Charger (UNIFIVE Model:UBX305-0510)
Power Supply:	120VAC
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Po l	Azimuth (deg)	Elevation (deg)
5817.350000	---	91.30	150.00	58.70	100.0	1000.000	155.0	V	150.0	0.0
5865.750000	53.78	---	68.20	14.42	100.0	1000.000	155.0	V	153.0	0.0
5866.050000	53.95	---	68.20	14.25	100.0	1000.000	155.0	V	150.0	0.0

(continuation of the "Final_Result" table from column 16 ...)

Frequency (MHz)	Corr .	Comment
5817.350000	13.5	11:04:18 - 11.03.2015
5865.750000	13.3	11:03:05 - 11.03.2015
5866.050000	13.3	11:01:54 - 11.03.2015

1.4. Conducted RF-measurements on antenna port

1.4.1. Conducted RF-power (20MHz nominal signal bandwidth)

AVERAGE conducted output power

a-Mode		U-NII 1		U-NII 2A		U-NII 2C			U-NII 3		
		Channel no.									
Data rate	Modulation	Ch 36 (5180MHz)	Ch 48 (5240MHz)	Ch 52 (5260MHz)	Ch 64 (5320MHz)	Ch 100 (5500MHz)	Ch 116 (5580MHz)	Ch 140 (5700MHz)	Ch 149 (5745MHz)	Ch 157 (5785MHz)	Ch 165 (5825MHz)
6Mbit		10,7	11,3	9,4	9,7	8,8	7,2	9,3	7,8	8,2	6,6
9Mbit		10,6	11,3	9,4	9,6	8,8	7,2	9,3	7,7	8,2	6,6
12Mbit		10,6	11,2	9,4	9,7	8,8	7,2	9,3	7,6	8,2	6,5
18Mbit		10,6	11,2	9,4	9,7	8,8	7,2	9,3	7,8	8,1	6,5
24Mbit		10,6	11,2	9,3	9,7	8,7	7,1	9,3	7,7	8,1	6,5
36Mbit		10,6	11,2	9,4	9,7	8,8	7,1	9,3	7,7	8,1	6,4
48Mbit		10,6	11,1	9,4	9,7	8,7	7,2	9,3	7,7	8,1	6,5
54Mbit		10,6	11,2	9,4	9,7	8,8	7,2	9,3	7,6	8,1	6,4

n-Mode HT20 (1 spatial stream: 1SS)		U-NII 1		U-NII 2A		U-NII 2C			U-NII 3		
		Channel no.									
Data rate	Modulation	Ch 36 (5180MHz)	Ch 48 (5240MHz)	Ch 52 (5260MHz)	Ch 64 (5320MHz)	Ch 100 (5500MHz)	Ch 116 (5580MHz)	Ch 140 (5700MHz)	Ch 149 (5745MHz)	Ch 157 (5785MHz)	Ch 165 (5825MHz)
MCS0 - 6.5Mbps	BPSK	12,0	11,9	9,8	10,1	9,0	7,4	9,4	7,7	8,2	6,8
MCS1 - 13Mbps	QPSK	12,0	11,8	9,9	10,1	9,0	7,4	9,4	7,7	8,3	6,7
MCS2 - 19.5Mbps	QPSK	11,8	11,8	9,8	10,0	9,0	7,4	9,4	7,7	8,3	6,7
MCS3 - 26Mbps	QAM16	11,7	11,7	9,8	9,9	8,9	7,3	9,3	7,7	8,3	6,6
MCS4 - 39Mbps	QAM16	11,6	11,6	9,6	9,9	8,9	7,3	9,3	7,6	8,2	6,6
MCS5 - 52Mbps	QAM64	11,5	11,6	9,6	9,9	8,9	7,3	9,3	7,7	8,3	6,6
MCS6 - 58.5Mbps	QAM64	11,4	11,7	9,6	9,9	9,0	7,3	9,3	7,6	8,1	6,6
MCS7 - 65Mbps	QAM64	11,2	11,6	9,7	9,9	8,9	7,3	9,3	7,6	8,0	6,6

1.4.2. 26-dB Bandwidth

a-Mode		U-NII 1		U-NII 2A		U-NII 2C			U-NII 3			
		Channel no.										
Data rate	Modulation	Ch 36 (5180MHz)	Ch 48 (5240MHz)	Ch 52 (5260MHz)	Ch 64 (5320MHz)	Ch 100 (5500MHz)	Ch 116 (5580MHz)	Ch 140 (5700MHz)	Ch 149 (5745MHz)	Ch 157 (5785MHz)	Ch 165 (5825MHz)	
6Mbit		27,56	28,08	27,31	24,25	20,50	20,30	23,00	16,63	16,63	16,63	
9Mbit		28,46	25,96	25,58	24,77	20,43	20,24	22,80	16,59	16,63	16,63	
12Mbit		24,17	23,53	21,60	21,22	20,17	19,97	19,91				
18Mbit		24,23	23,40	21,73	20,96	20,11	20,15	20,17				
24Mbit		24,42	22,69	22,50	20,70	20,04	19,97	21,16				
36Mbit		22,18	21,35	21,35	20,43	19,97	19,84	20,30				
48Mbit		21,67	21,47	21,41	20,70	19,91	19,65	20,43	16,59	16,59	16,60	
54Mbit		21,92	22,01	21,73	21,16	19,84	19,84	20,11	16,59	16,63	16,63	
n-Mode HT20 (1 spatial stream: 1SS)		U-NII 1		U-NII 2A		U-NII 2C						
		Channel no.										
Data rate	Modulation	Ch 36 (5180MHz)	Ch 48 (5240MHz)	Ch 52 (5260MHz)	Ch 64 (5320MHz)	Ch 100 (5500MHz)	Ch 116 (5580MHz)	Ch 140 (5700MHz)	Ch 149 (5745MHz)	Ch 157 (5785MHz)	Ch 165 (5825MHz)	
MCS0 - 6.5Mbps	BPSK	29,04	27,94	26,87	23,65	20,96	23,72	27,99	17,80	17,78	17,79	
MCS1 - 13Mbps	QPSK	25,23	25,17	24,97	20,43	20,40	20,43	21,16	17,77	17,78	17,84	
MCS2 - 19.5Mbps	QPSK											
MCS3 - 26Mbps	QAM16											
MCS4 - 39Mbps	QAM16											
MCS5 - 52Mbps	QAM64											
MCS6 - 58.5Mbps	QAM64	22,73	22,67	21,29	20,83	20,30	20,37	21,68	17,77	17,78	17,74	
MCS7 - 65Mbps	QAM64	23,26	22,60	21,22	20,63	20,50	20,74	23,00	17,77	17,78	17,79	

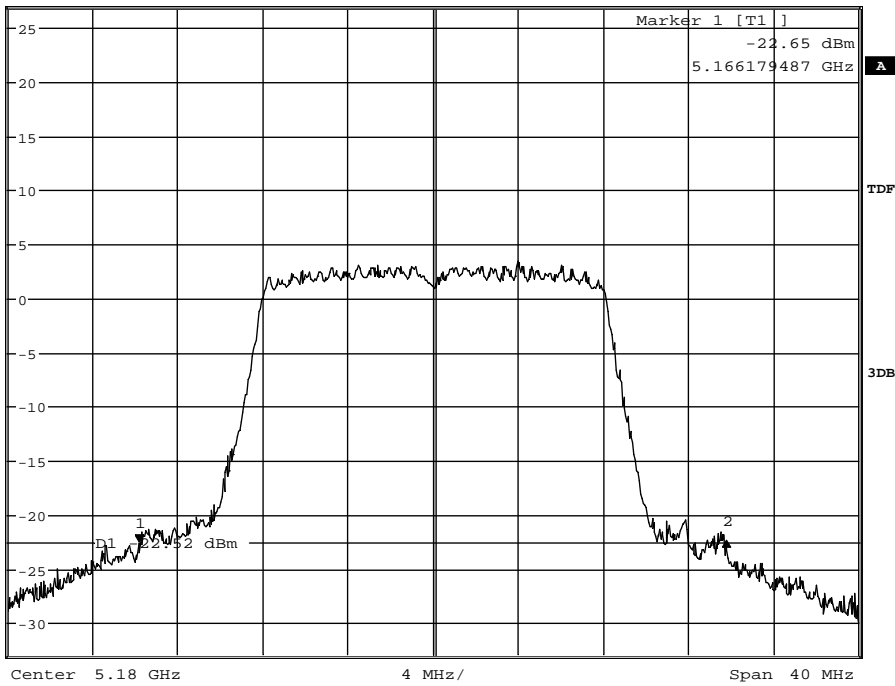
a-mode, Channel 36



*RBW 300 kHz Delta 2 [T1]
*VBW 5 MHz 0.19 dB
SWT 20 ms

Ref 27 dBm *Att 30 dB 27.564102564 MHz

1 PK
VIEW



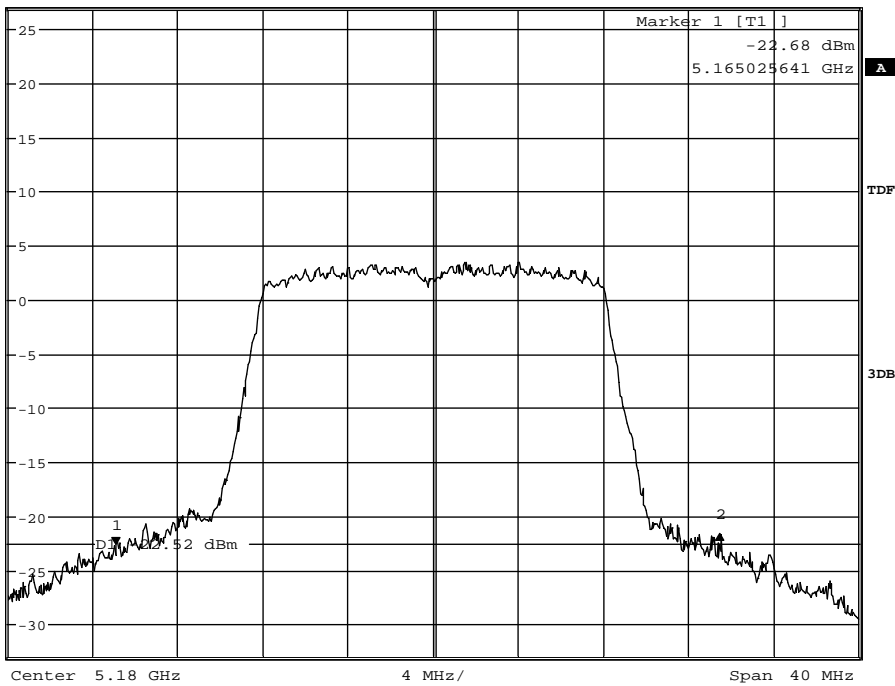
Date: 2.FEB.2015 12:47:52



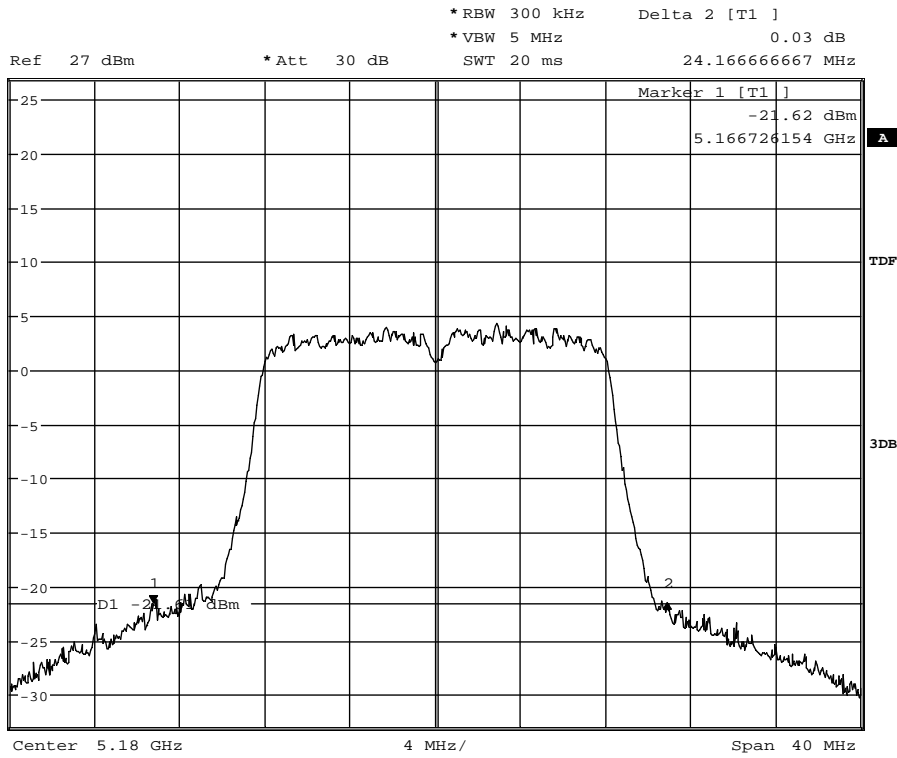
*RBW 300 kHz Delta 2 [T1]
*VBW 5 MHz 0.95 dB
SWT 20 ms

Ref 27 dBm *Att 30 dB 28.461538461 MHz

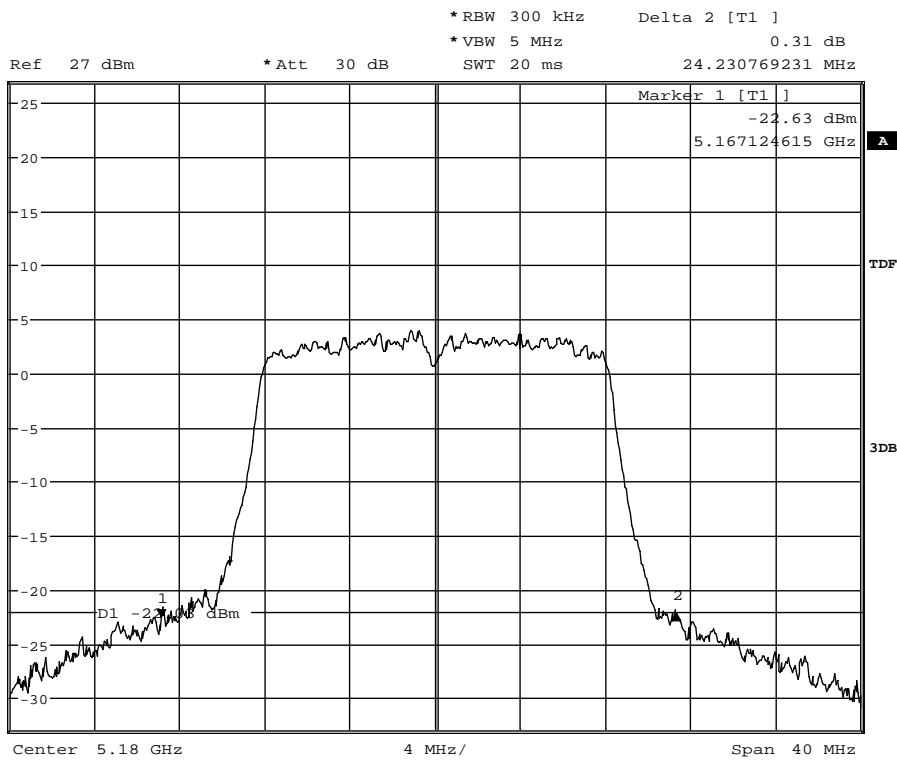
1 PK
VIEW



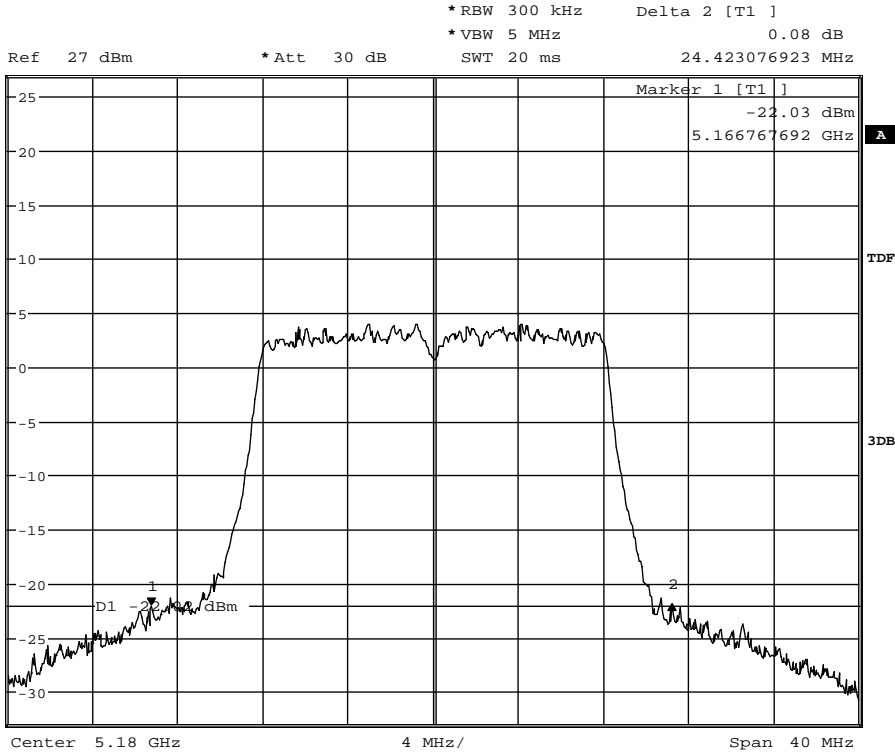
Date: 2.FEB.2015 12:19:25



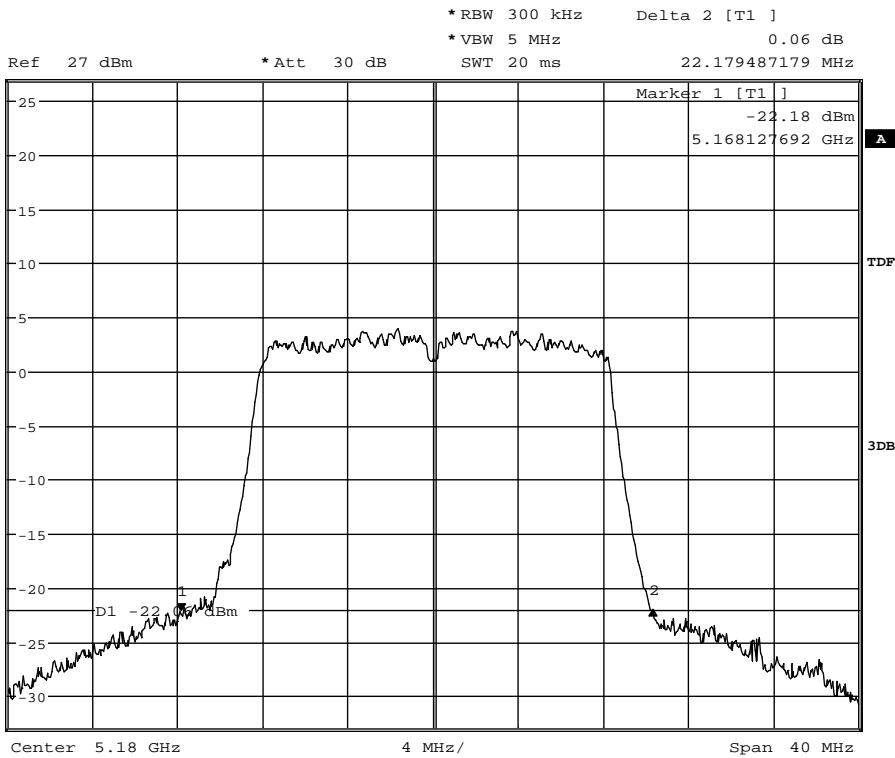
Date: 2.FEB.2015 12:24:08



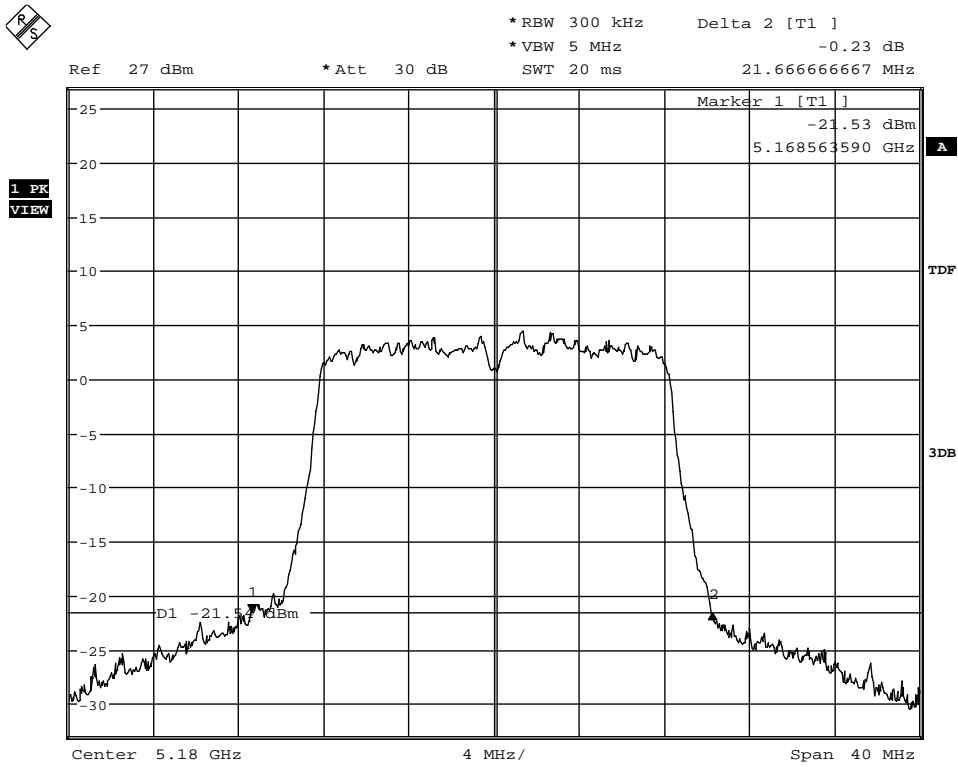
Date: 2.FEB.2015 12:28:13



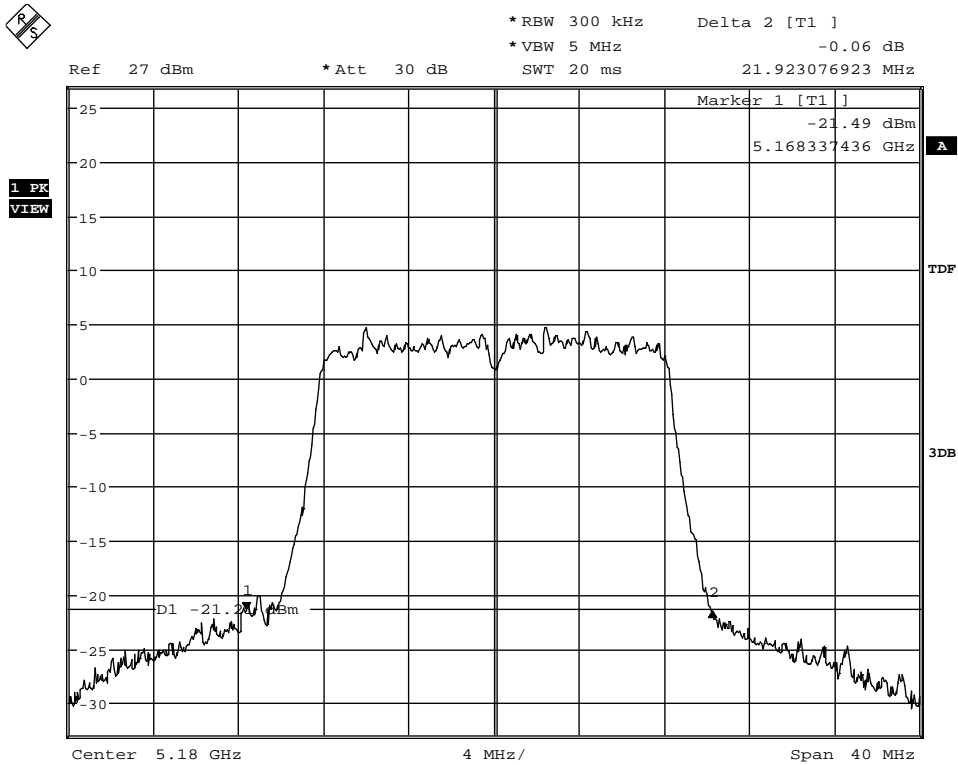
Date: 2.FEB.2015 12:34:14



Date: 2.FEB.2015 12:37:44



Date: 2.FEB.2015 12:40:57



Date: 2.FEB.2015 12:43:58

a-mode, Channel 48

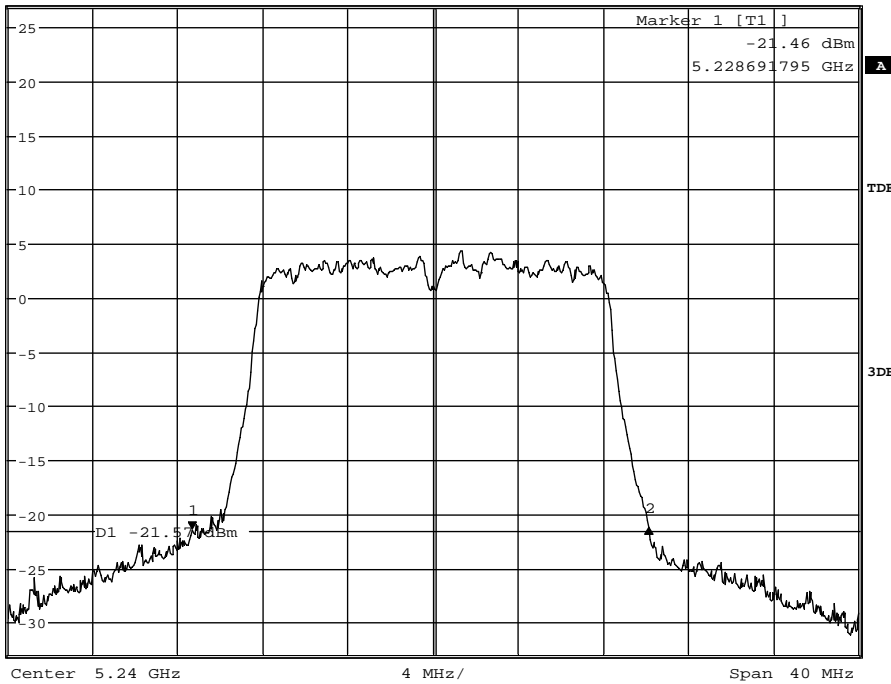


*RBW 300 kHz Delta 2 [T1]
*VBW 5 MHz 0.16 dB
SWT 20 ms 21.474358974 MHz

Ref 27 dBm

*Att 30 dB

1 PK
VIEW



Date: 2.FEB.2015 13:26:21

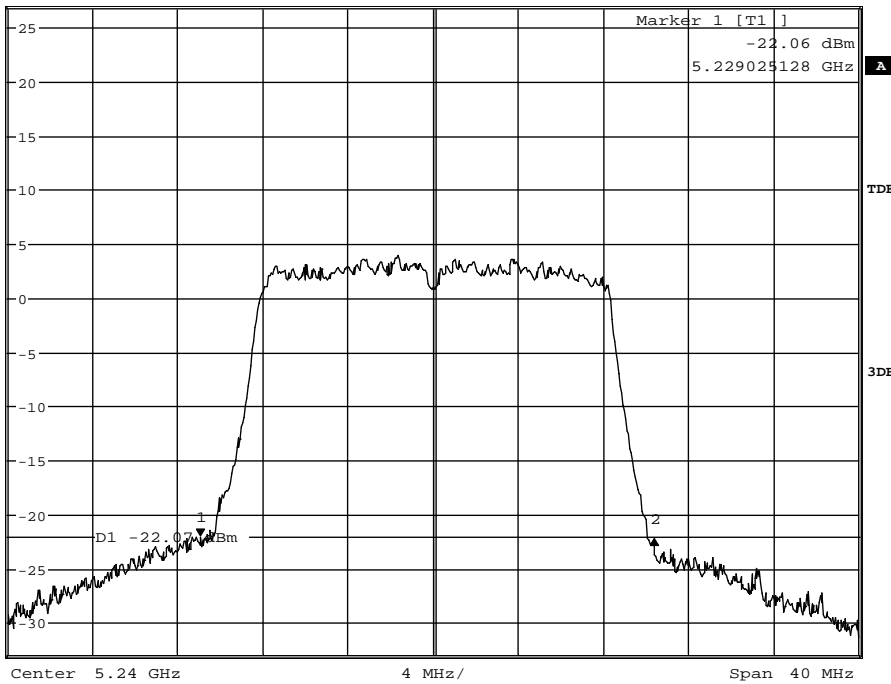


*RBW 300 kHz Delta 2 [T1]
*VBW 5 MHz -0.30 dB
SWT 20 ms 21.346153846 MHz

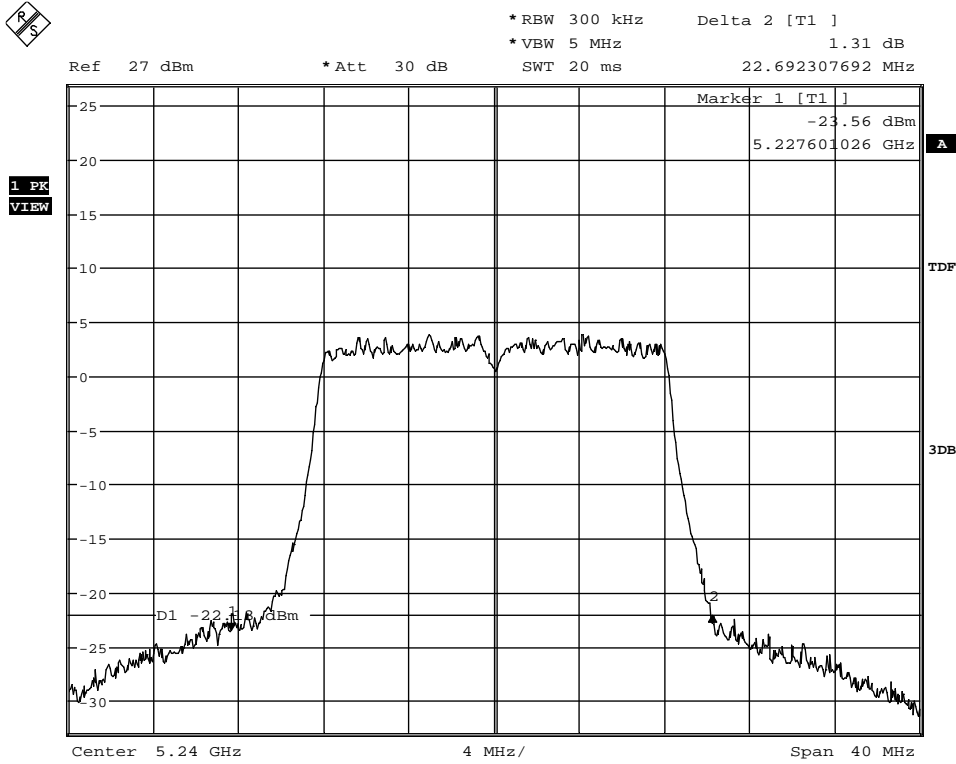
Ref 27 dBm

*Att 30 dB

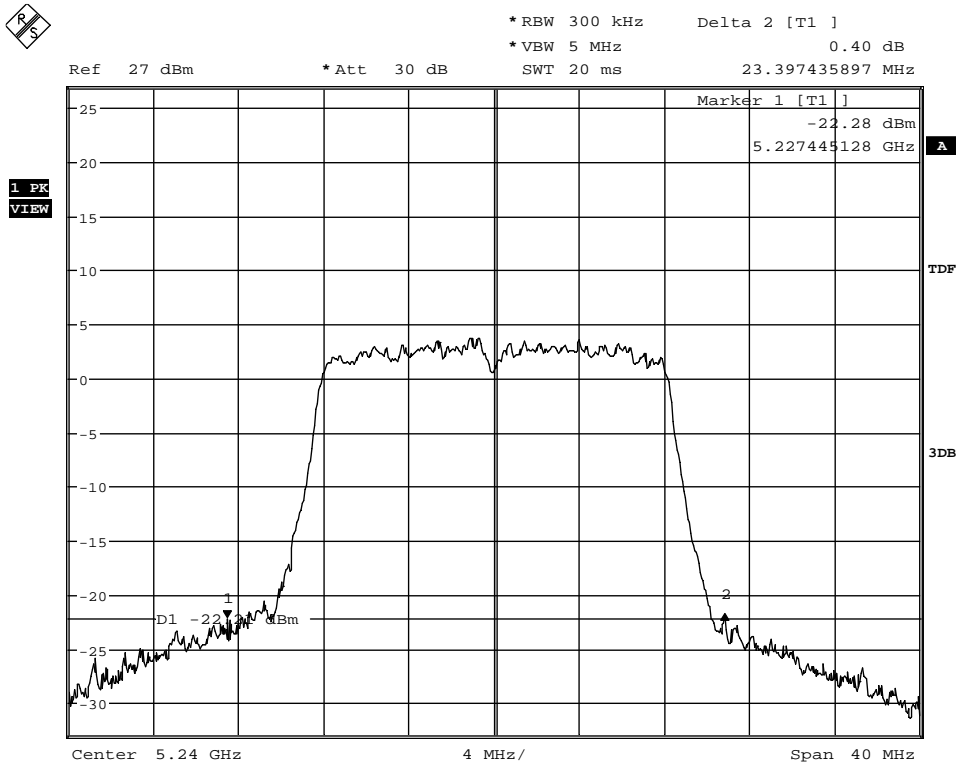
1 PK
VIEW



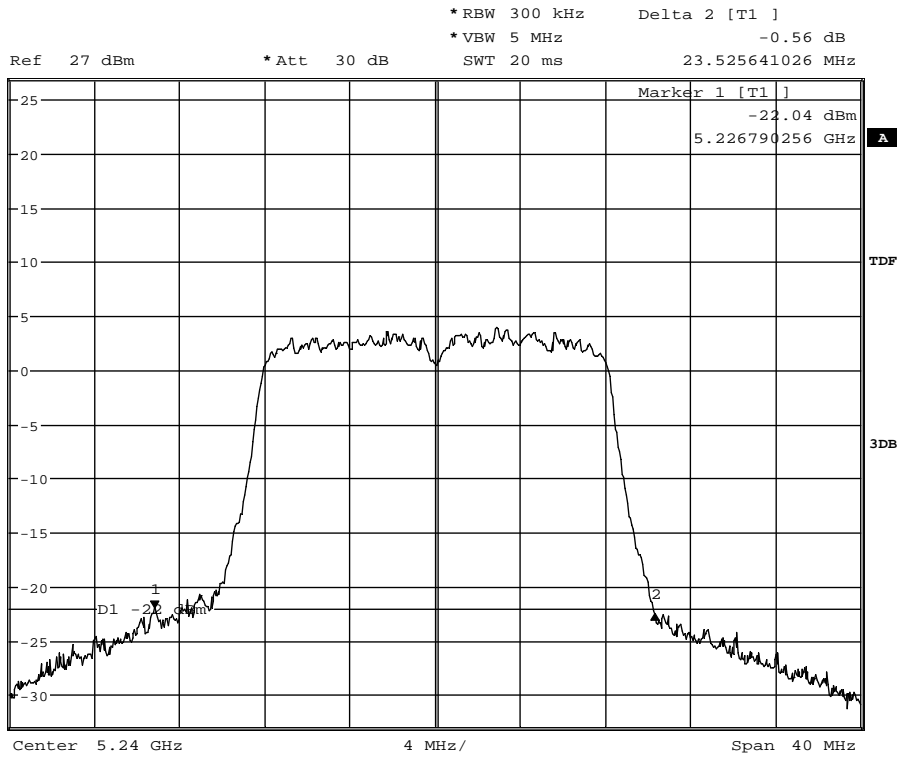
Date: 2.FEB.2015 13:23:01



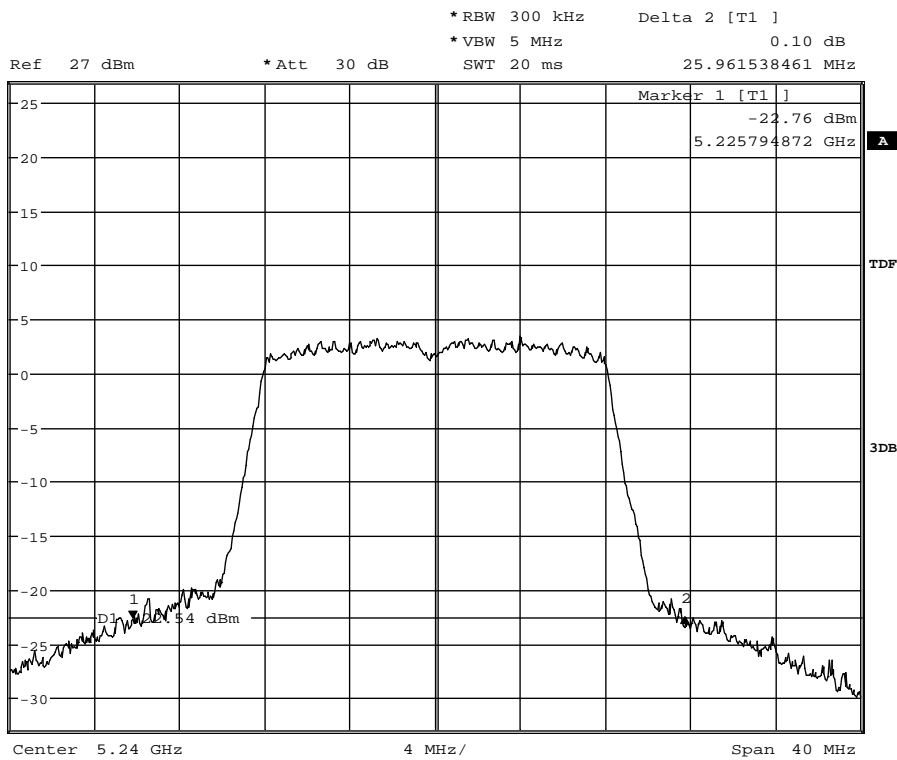
Date: 2.FEB.2015 13:19:19



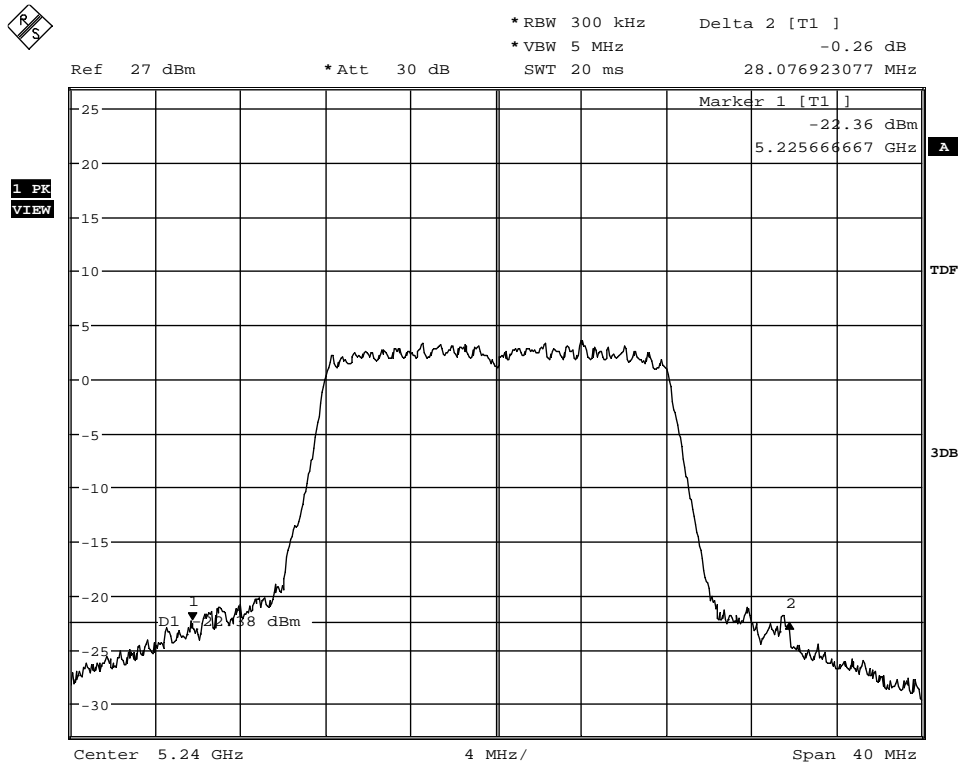
Date: 2.FEB.2015 13:12:15



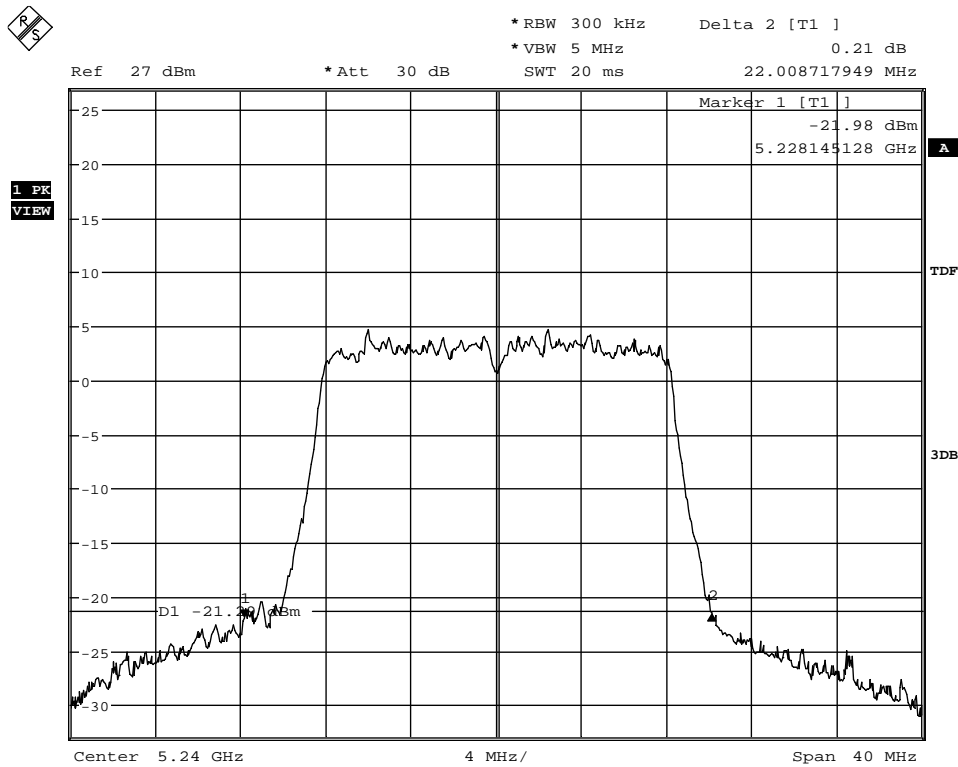
Date: 2.FEB.2015 13:16:23



Date: 2.FEB.2015 13:00:50

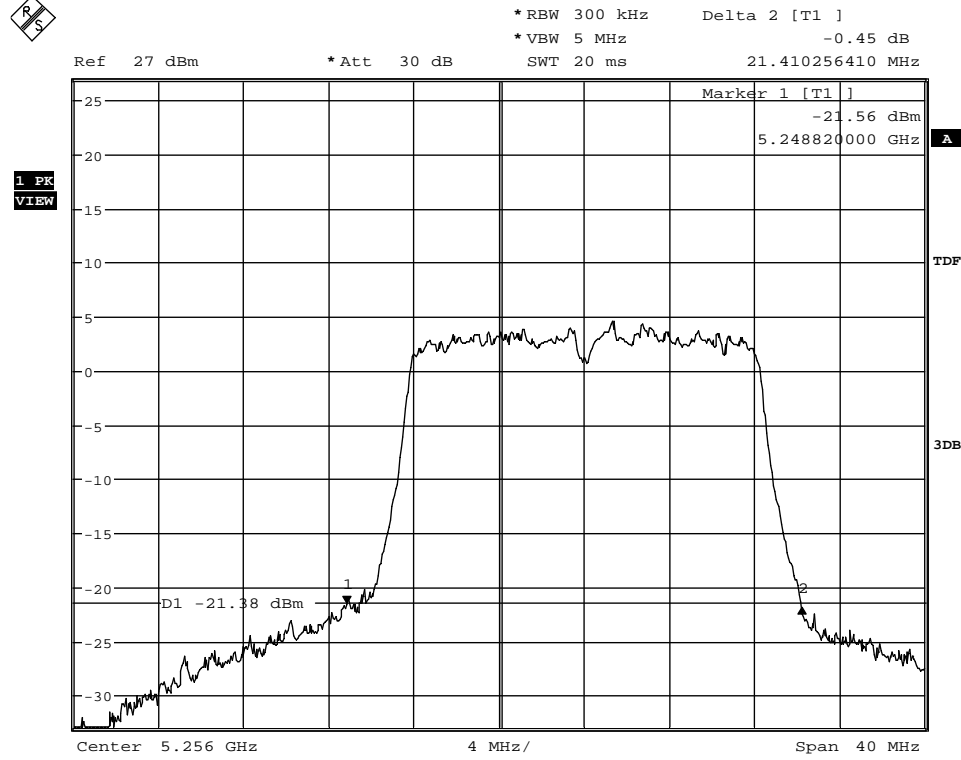


Date: 2.FEB.2015 13:08:41

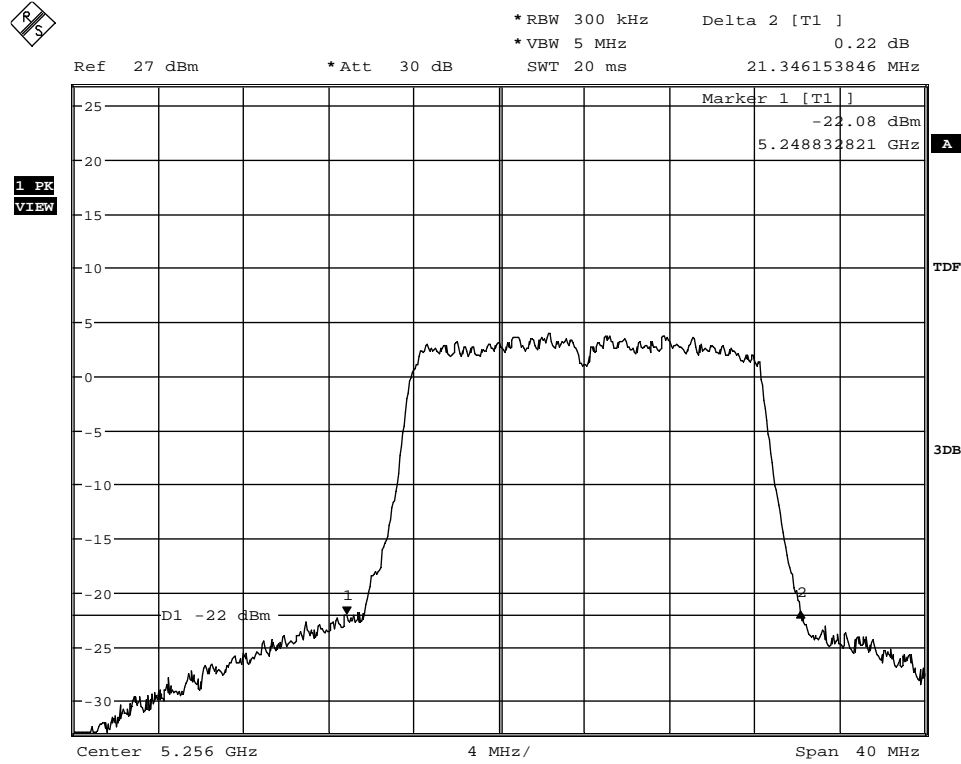


Date: 2.FEB.2015 13:29:27

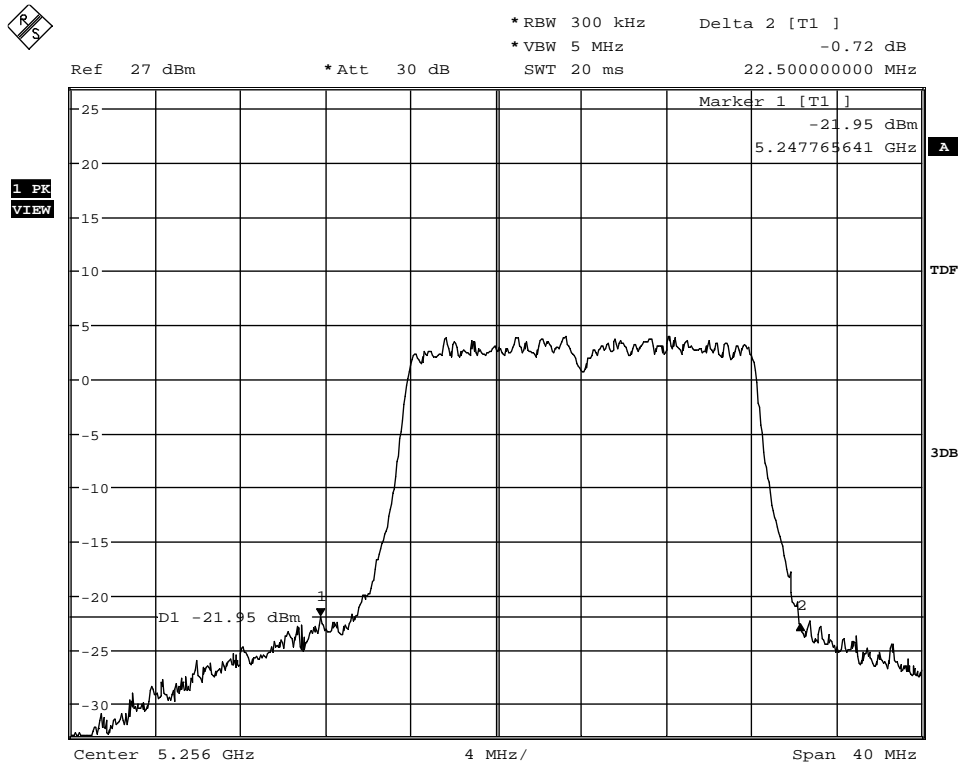
a-mode, Channel 52



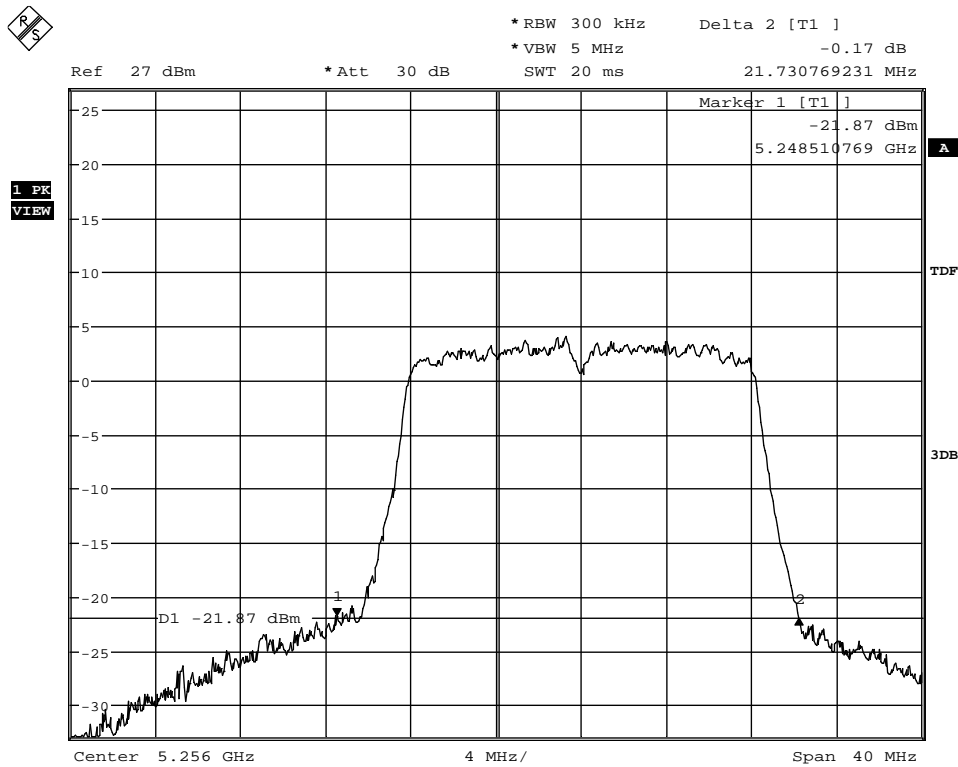
Date: 2.FEB.2015 13:39:06



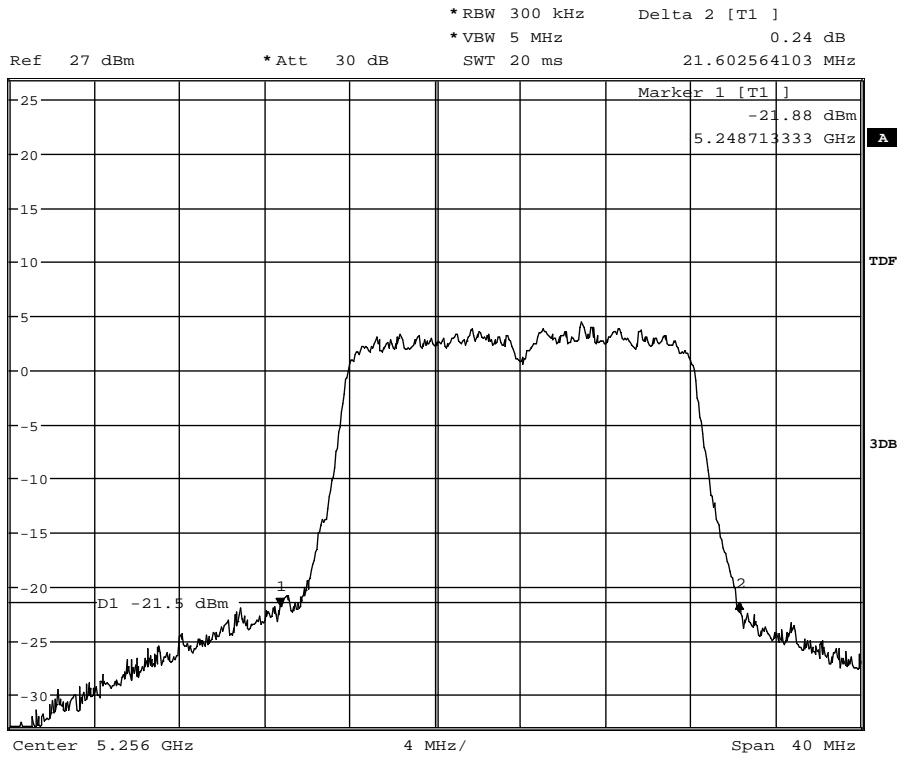
Date: 2.FEB.2015 13:42:42



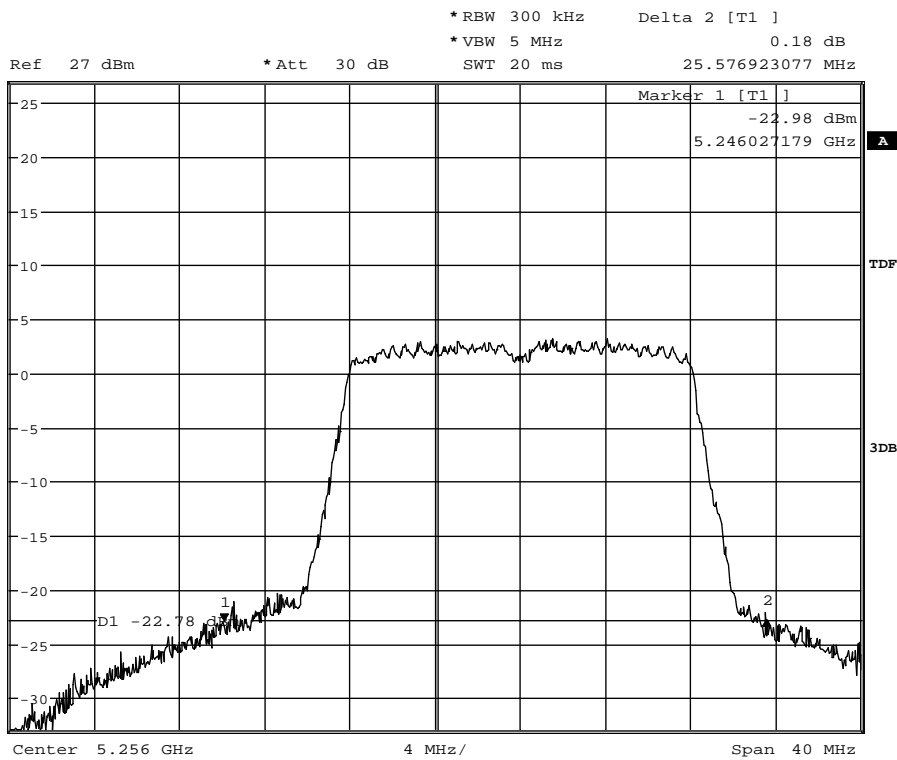
Date: 2.FEB.2015 13:45:44



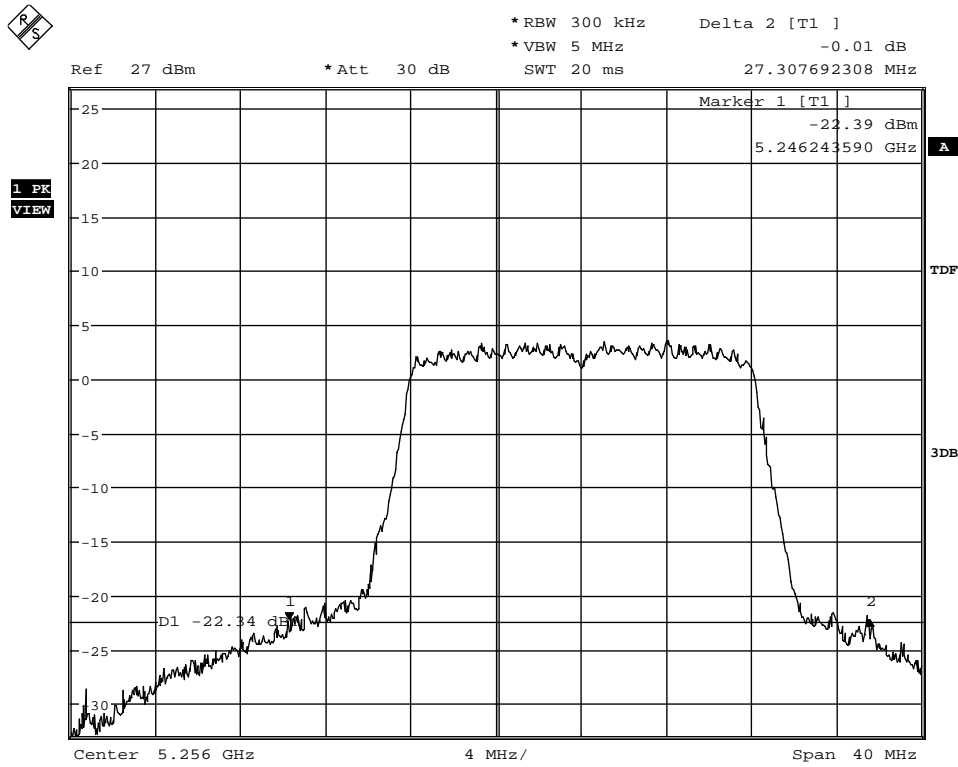
Date: 2.FEB.2015 13:52:26



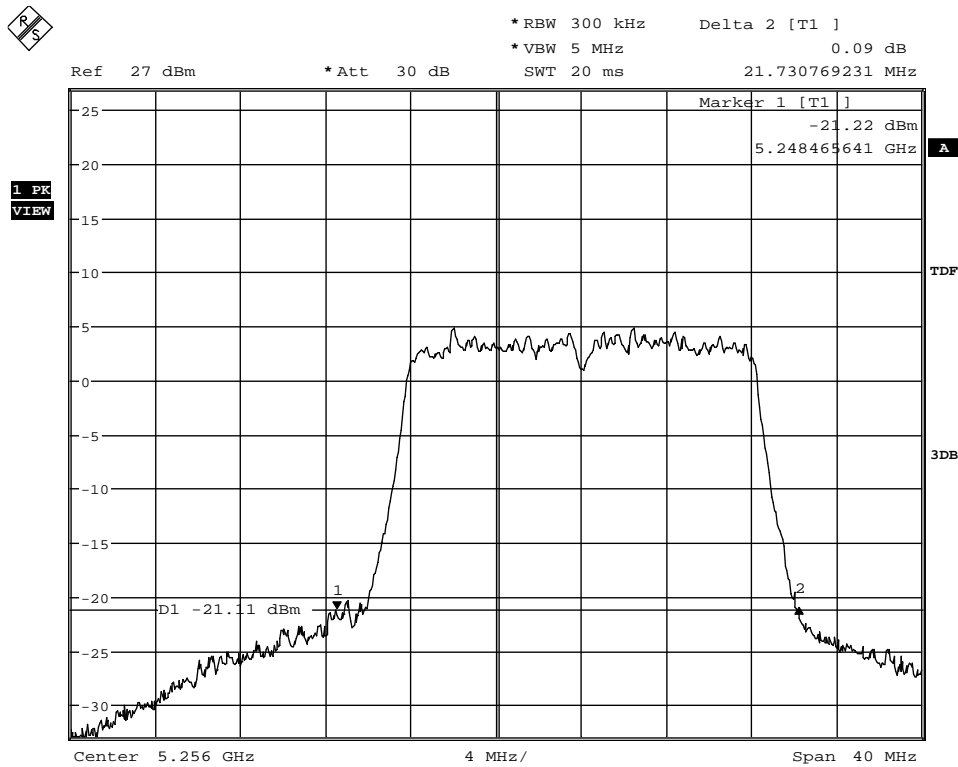
Date: 2.FEB.2015 13:55:08



Date: 2.FEB.2015 13:57:36

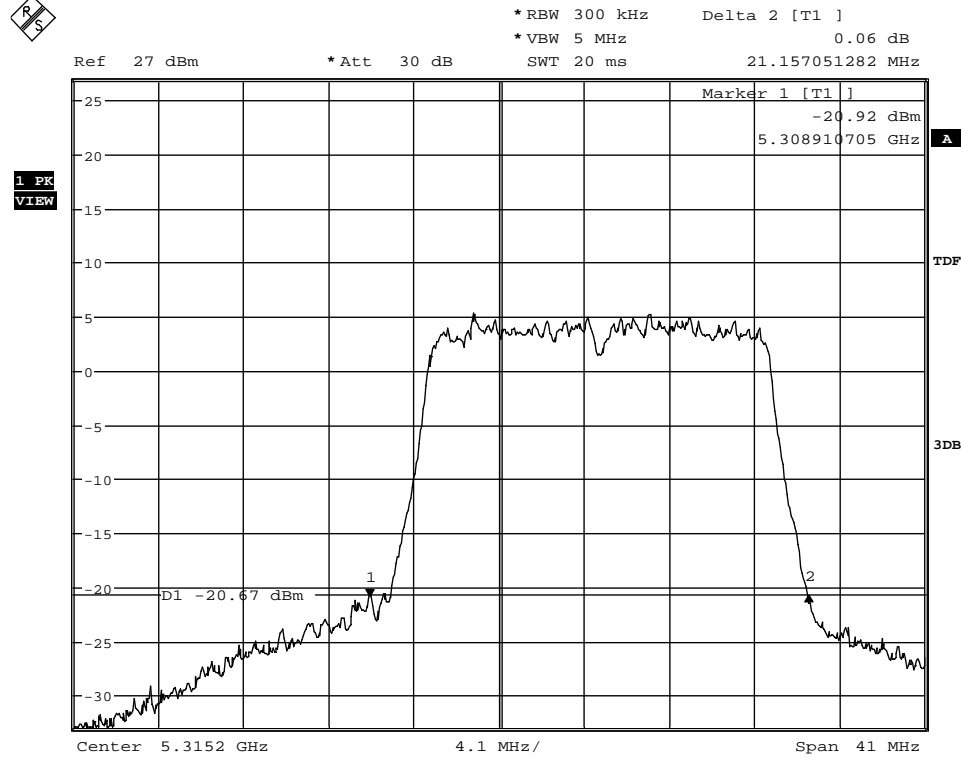


Date: 2.FEB.2015 14:01:04

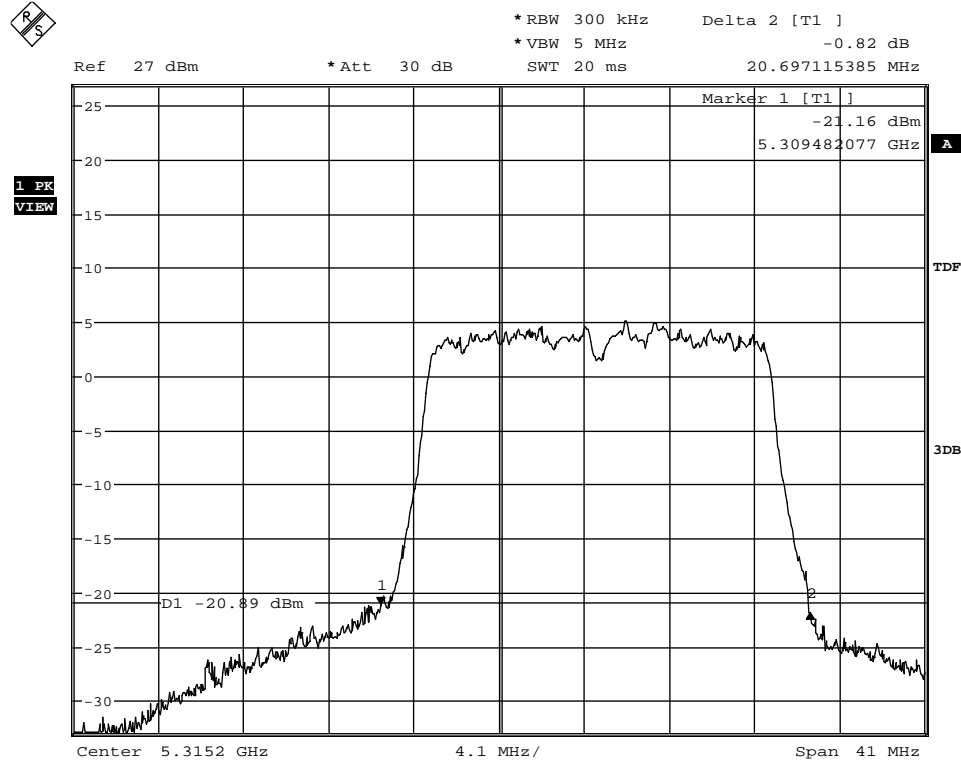


Date: 2.FEB.2015 13:35:56

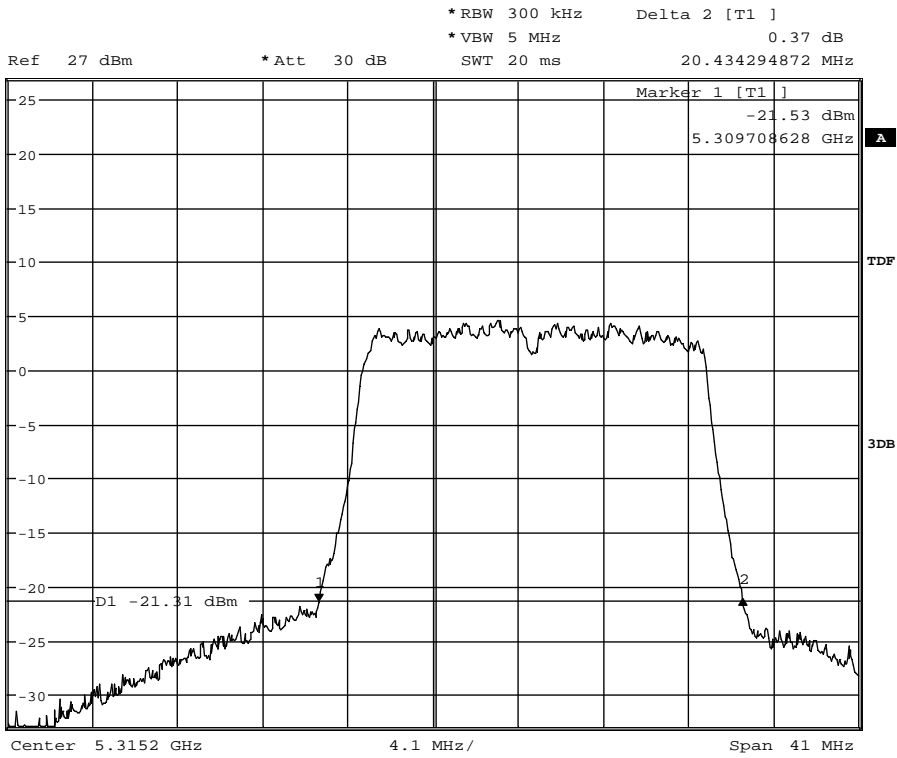
a-mode, Channel 64



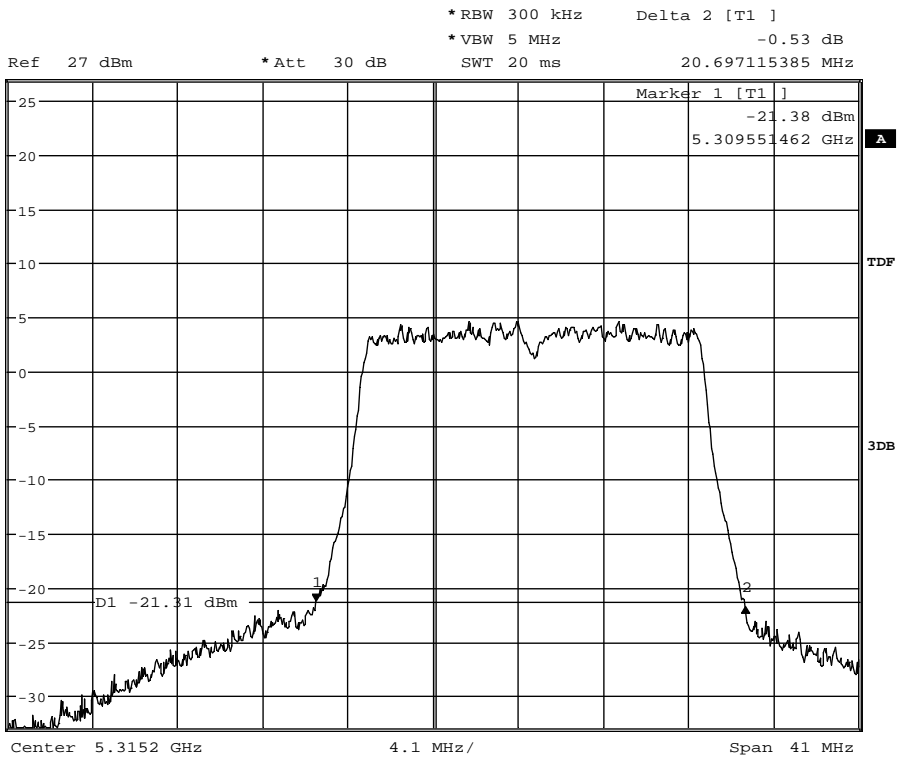
Date: 2.FEB.2015 14:29:21



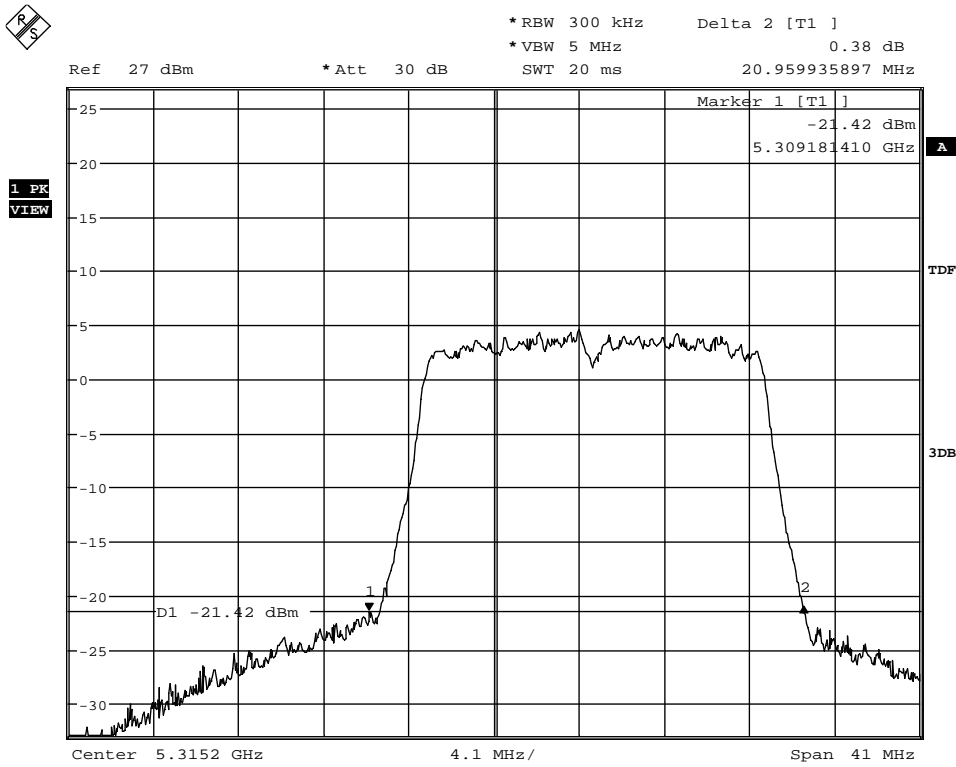
Date: 2.FEB.2015 14:22:49



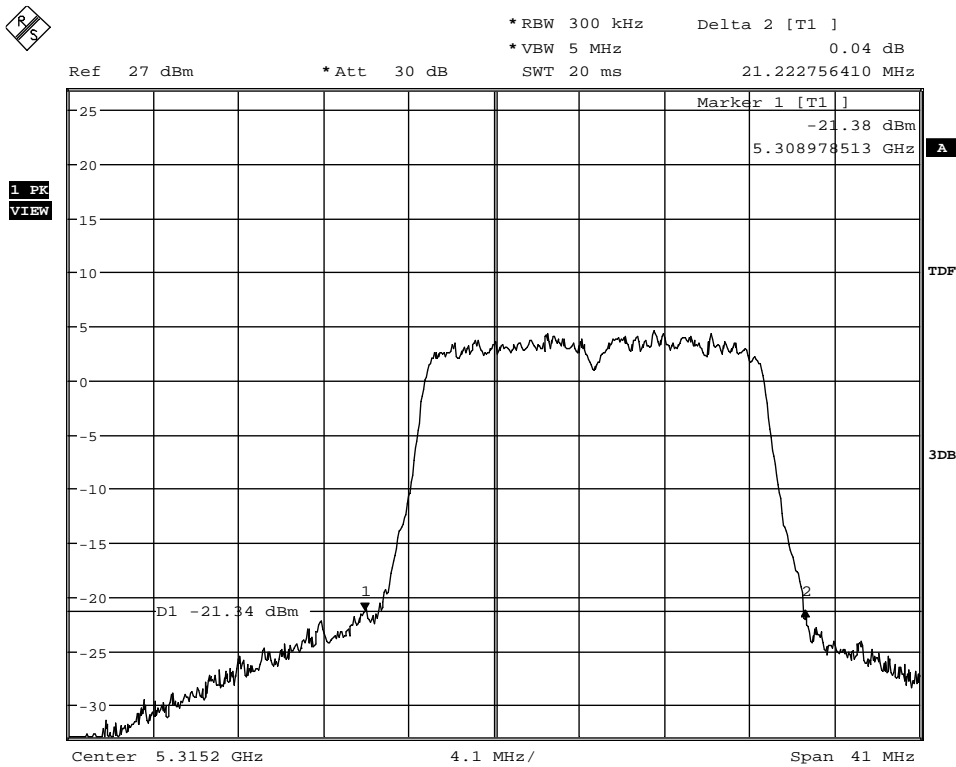
Date: 2.FEB.2015 14:19:50



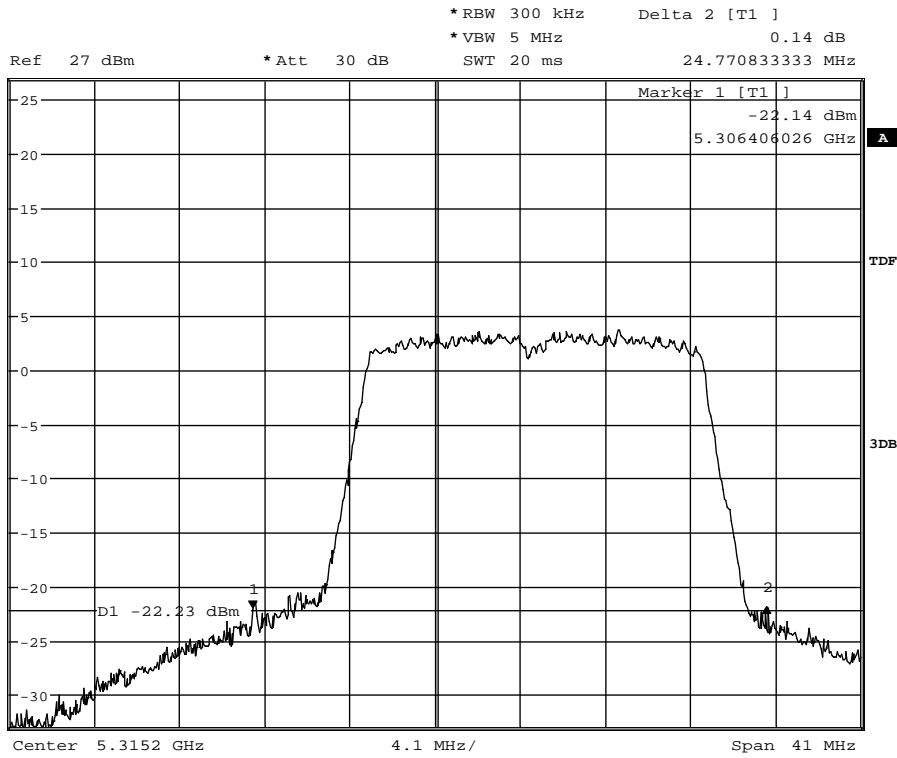
Date: 2.FEB.2015 14:16:11



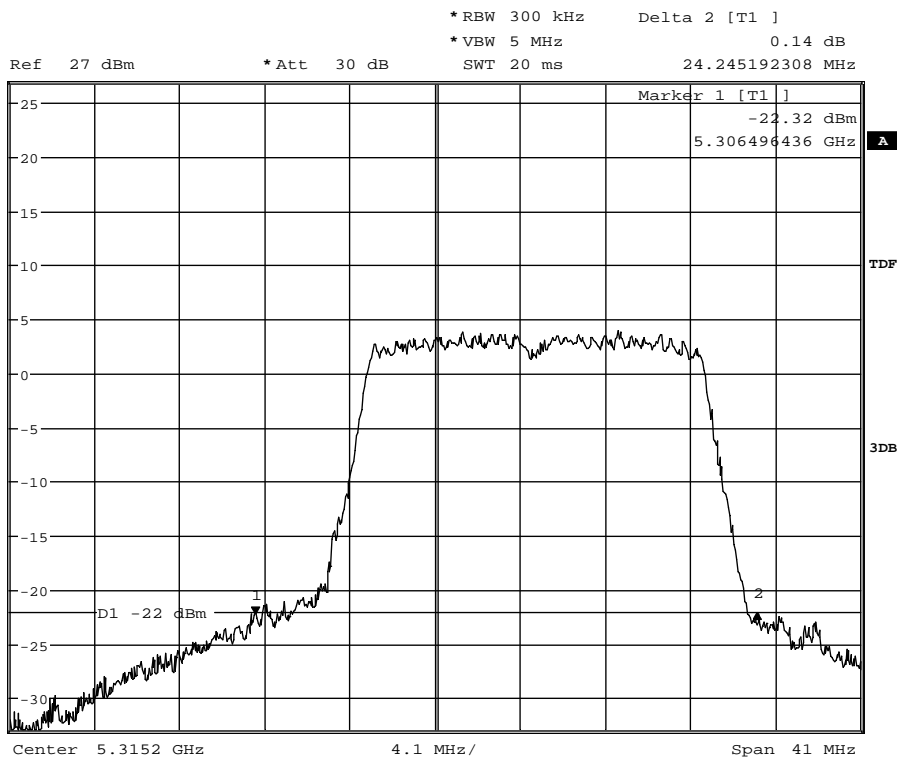
Date: 2.FEB.2015 14:13:21



Date: 2.FEB.2015 14:10:17

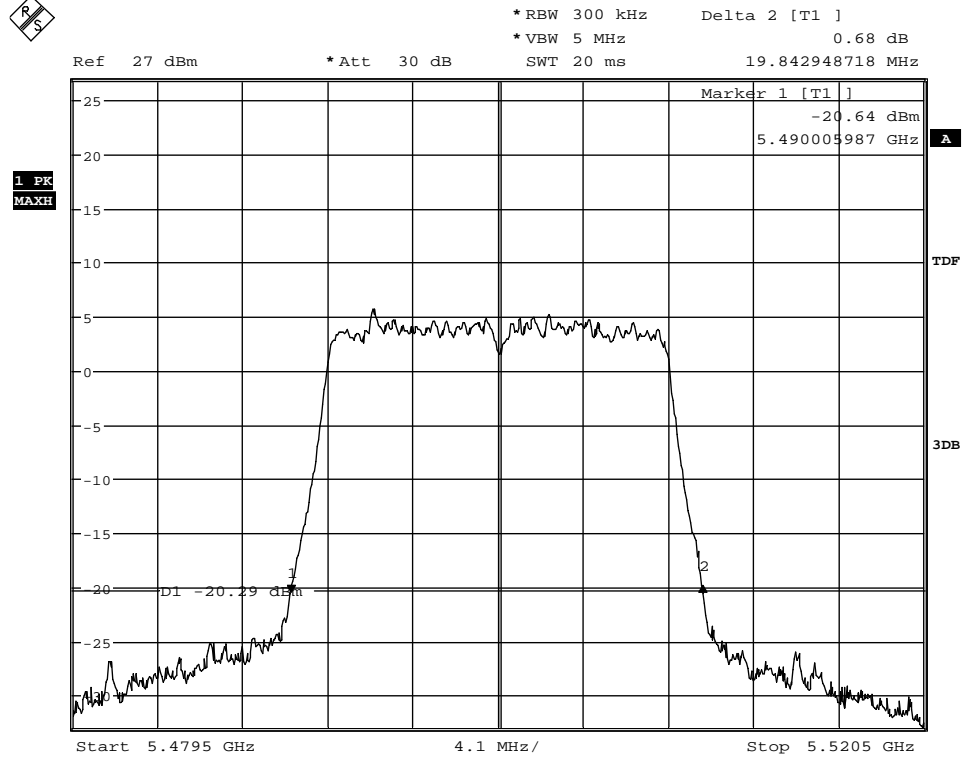


Date: 2.FEB.2015 14:07:04

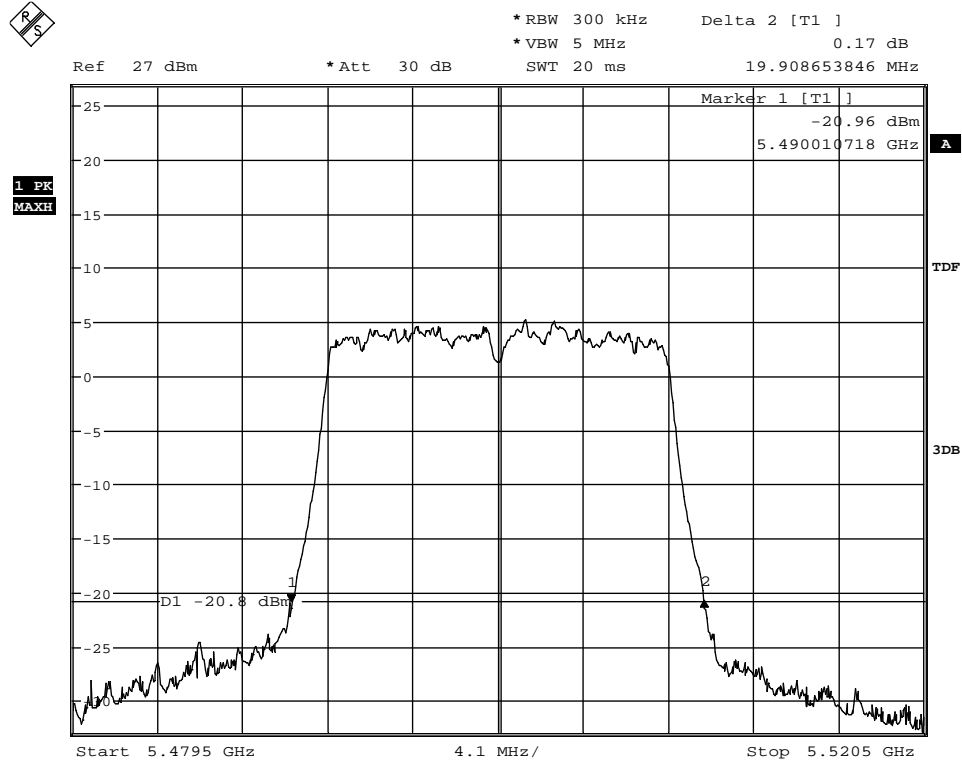


Date: 2.FEB.2015 14:04:29

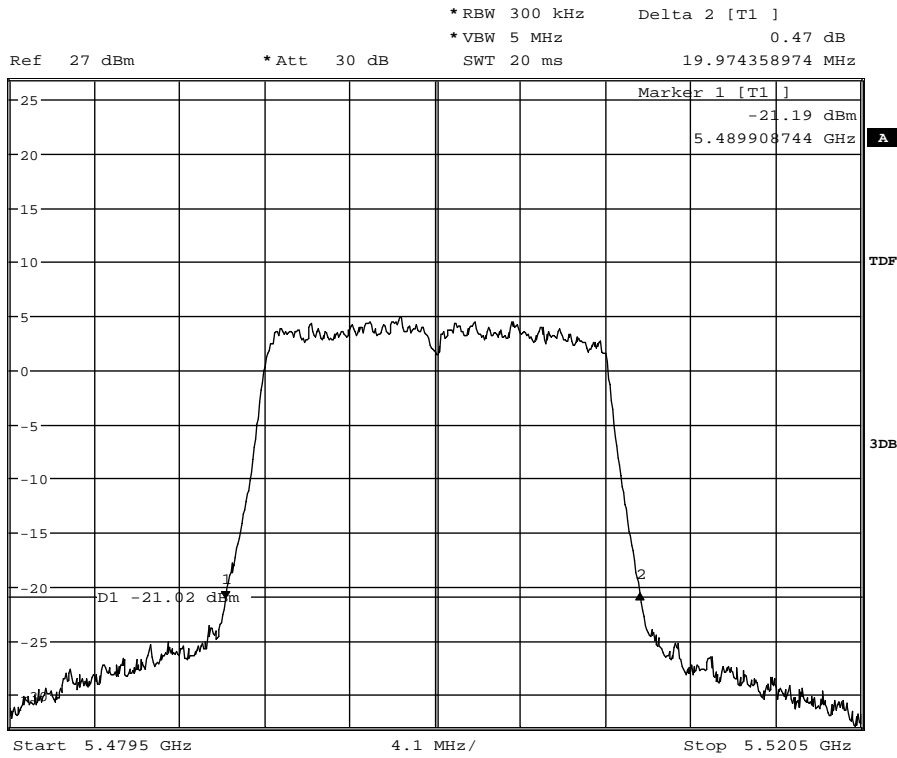
a-mode, Channel 100



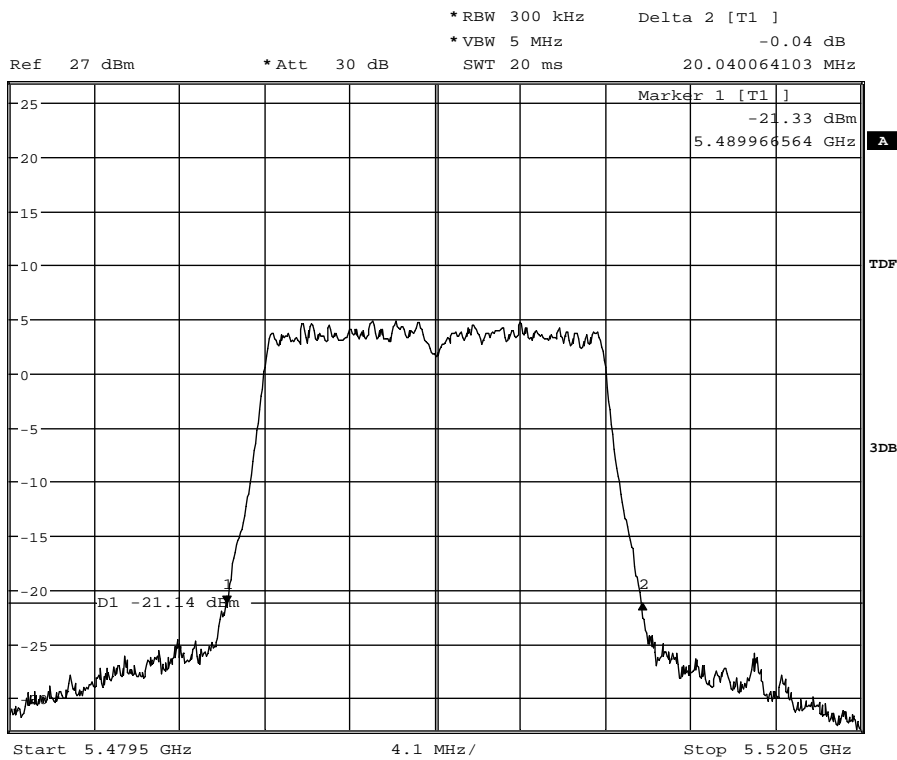
Date: 3.FEB.2015 14:30:38



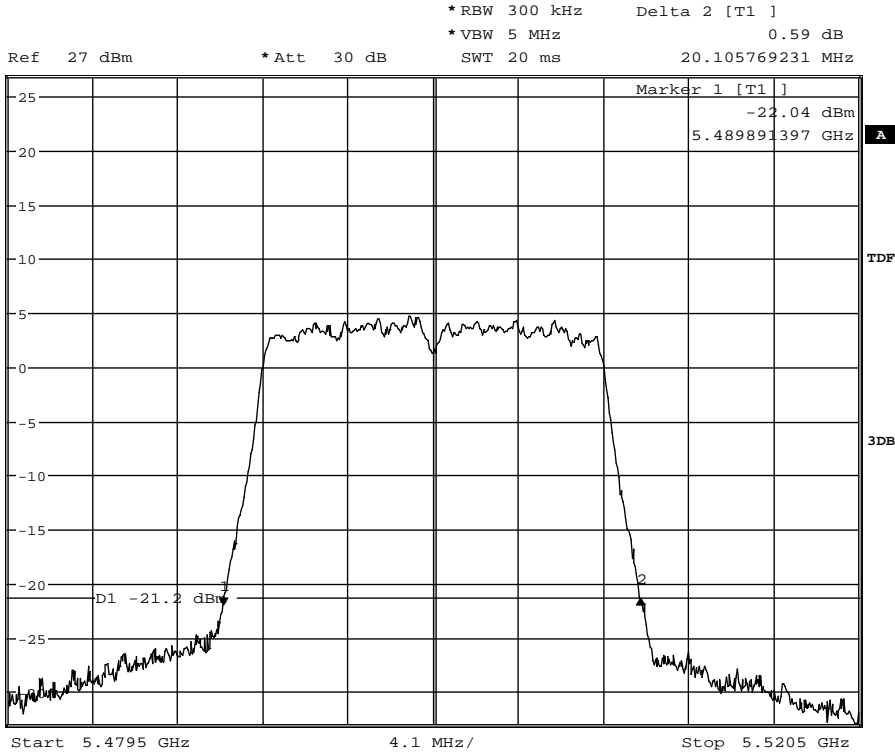
Date: 3.FEB.2015 14:27:08



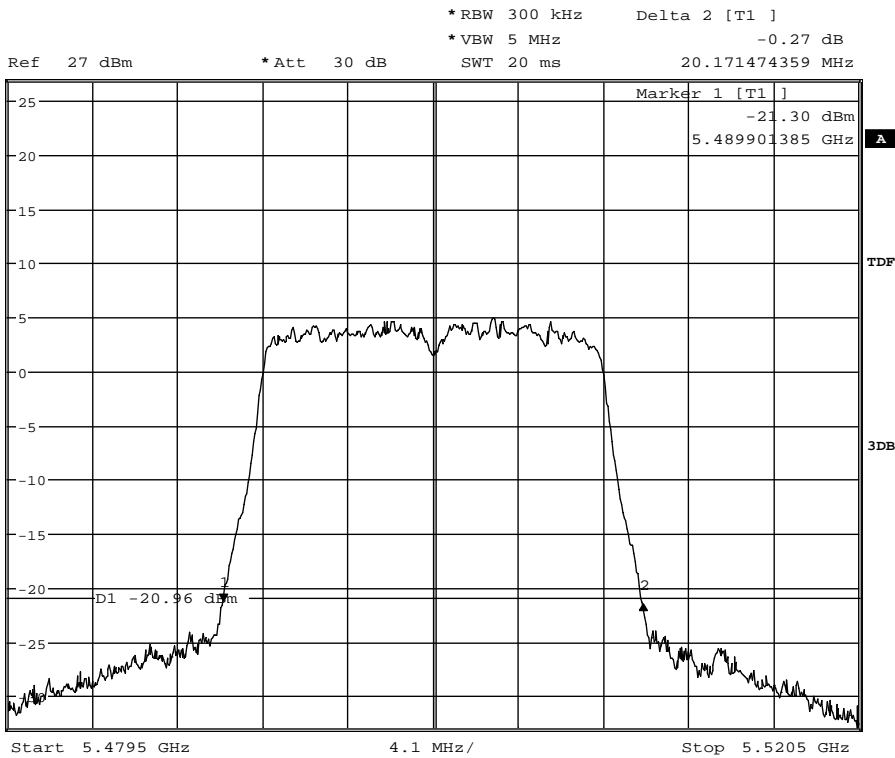
Date: 3.FEB.2015 14:23:30



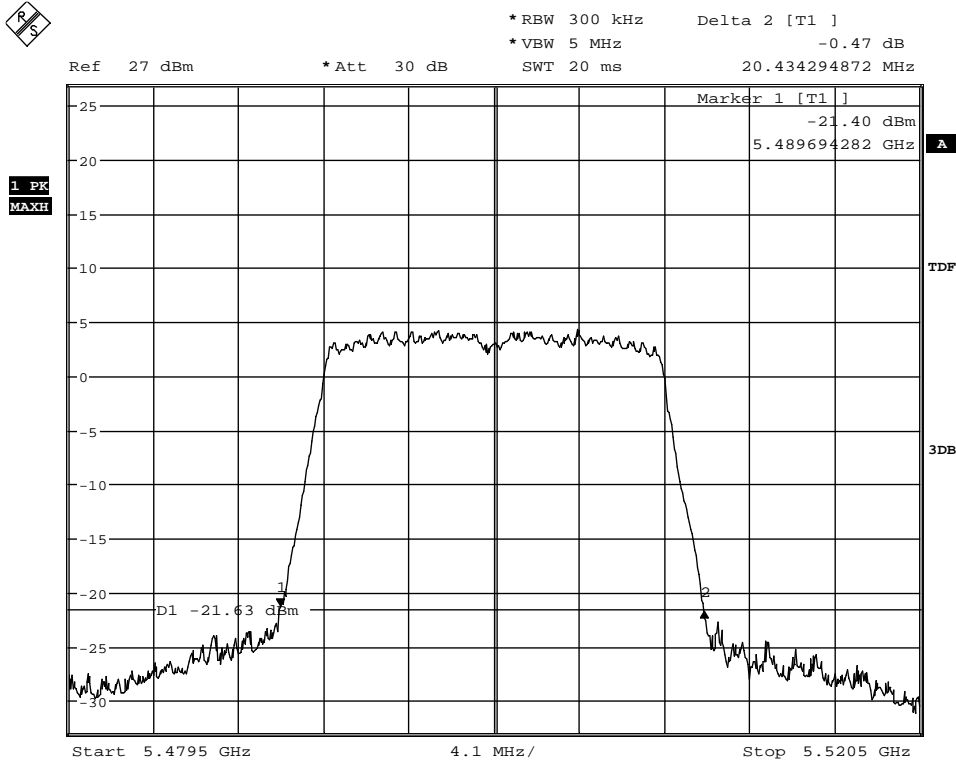
Date: 3.FEB.2015 14:19:01



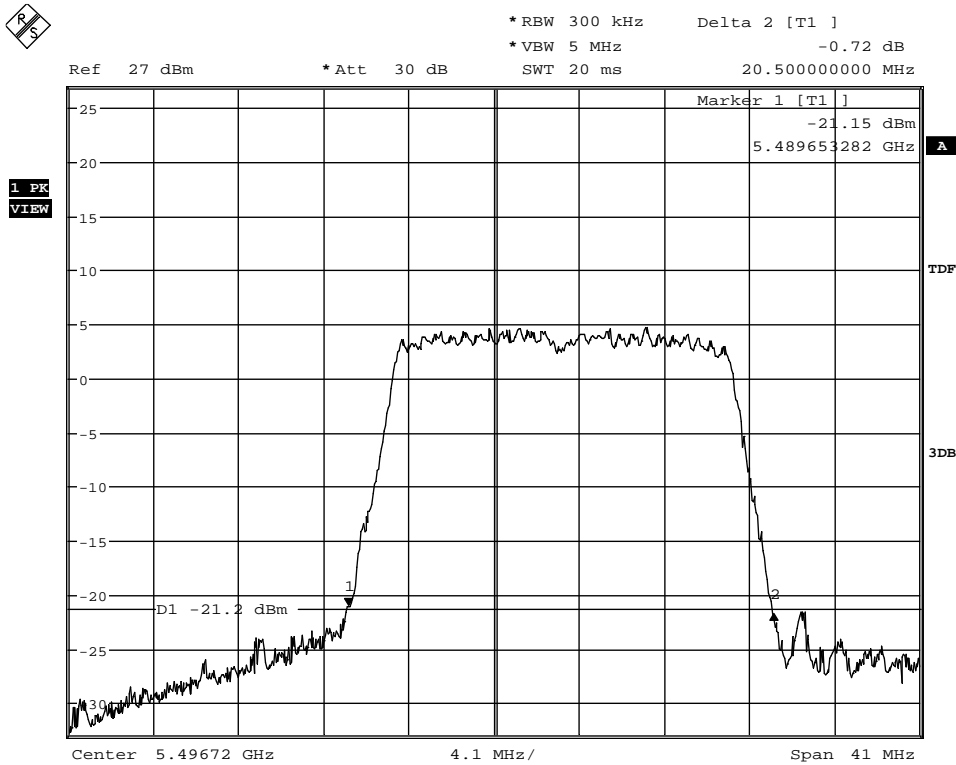
Date: 3.FEB.2015 14:15:49



Date: 3.FEB.2015 14:12:31



Date: 3.FEB.2015 14:08:21



Date: 3.FEB.2015 14:04:16

a-mode, Channel 116



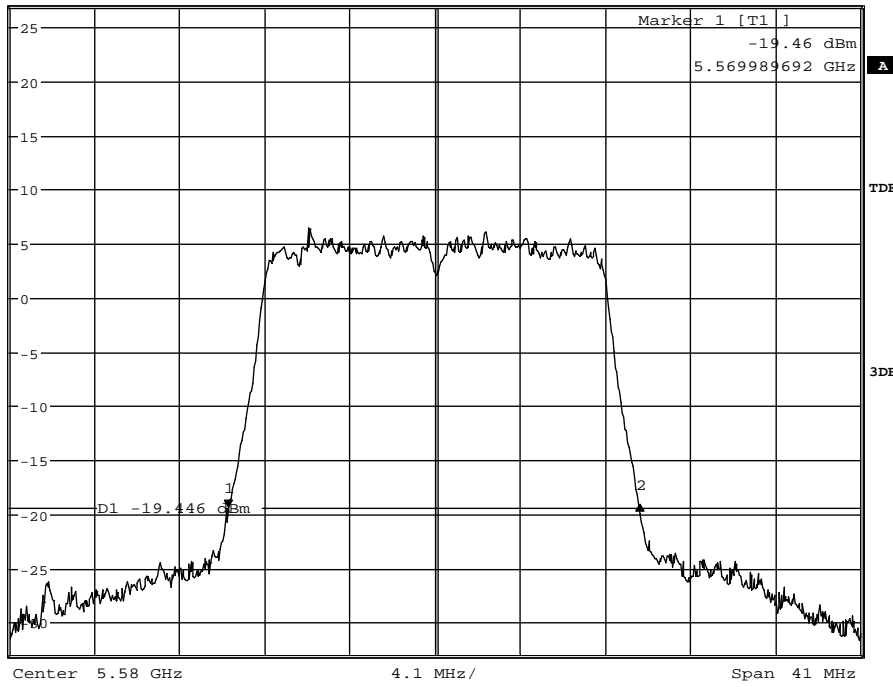
*RBW 300 kHz Delta 2 [T1]
*VBW 5 MHz 0.20 dB
SWT 20 ms 19.842948718 MHz

Ref 27 dBm

*Att 30 dB

19.842948718 MHz

1 PK
MAXH



Date: 3.FEB.2015 15:06:51



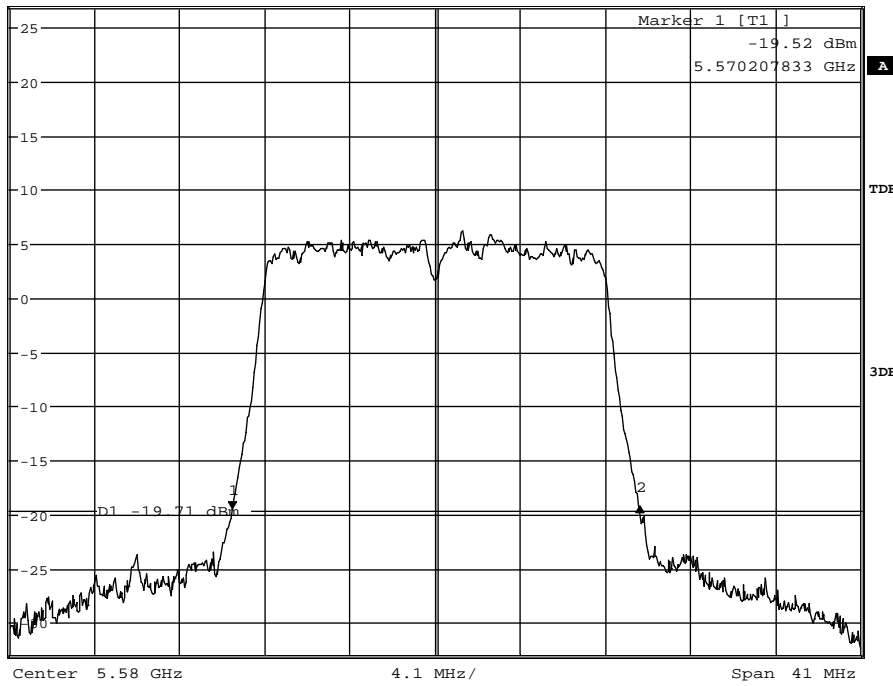
*RBW 300 kHz Delta 2 [T1]
*VBW 5 MHz 0.25 dB
SWT 20 ms 19.645833205 MHz

Ref 27 dBm

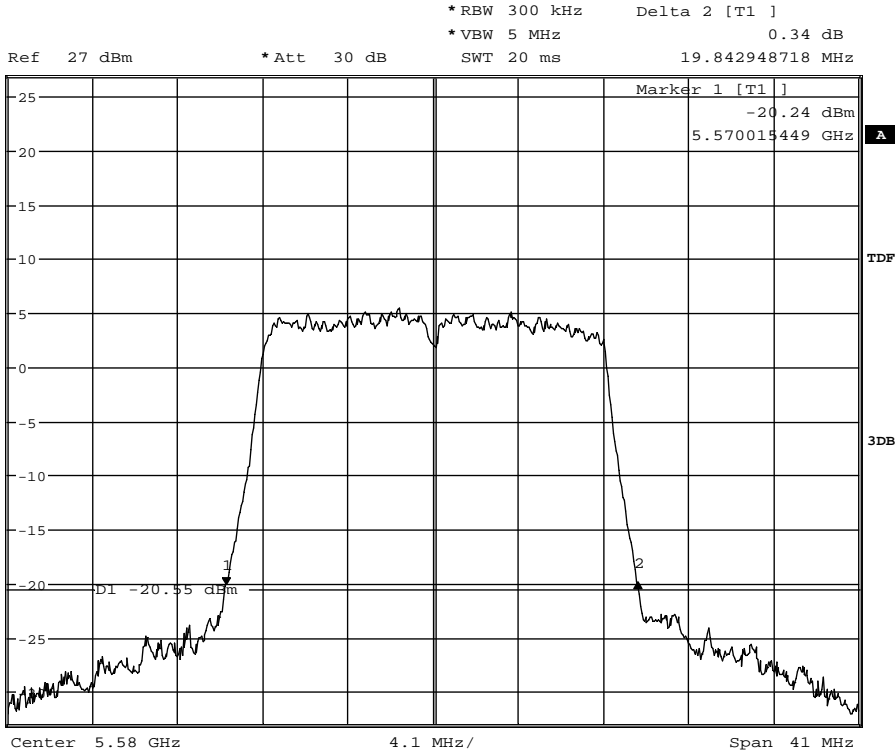
*Att 30 dB

19.645833205 MHz

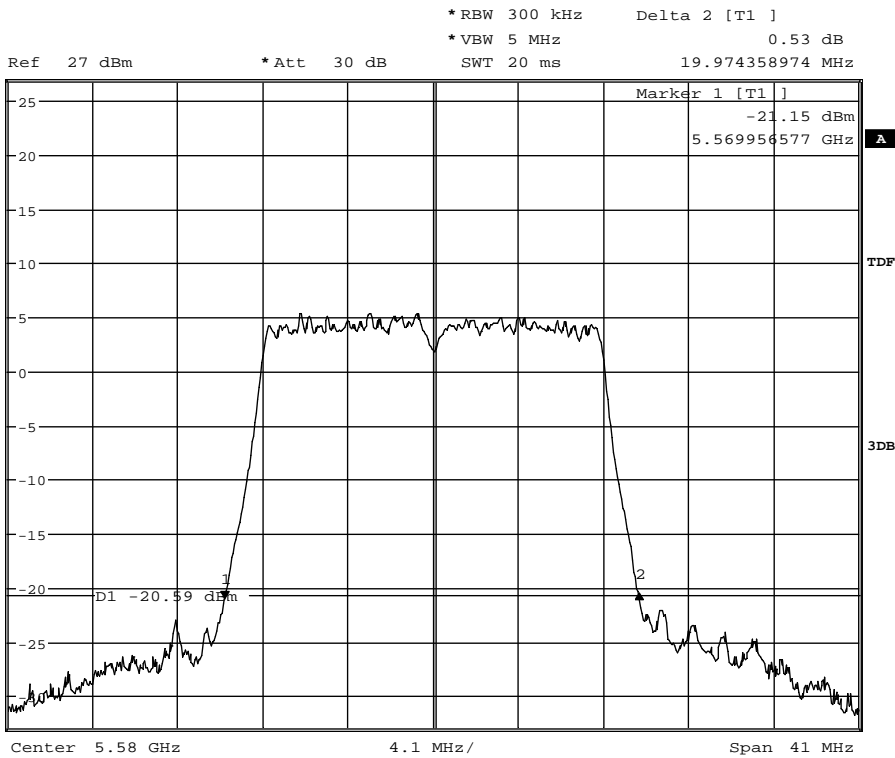
1 PK
MAXH



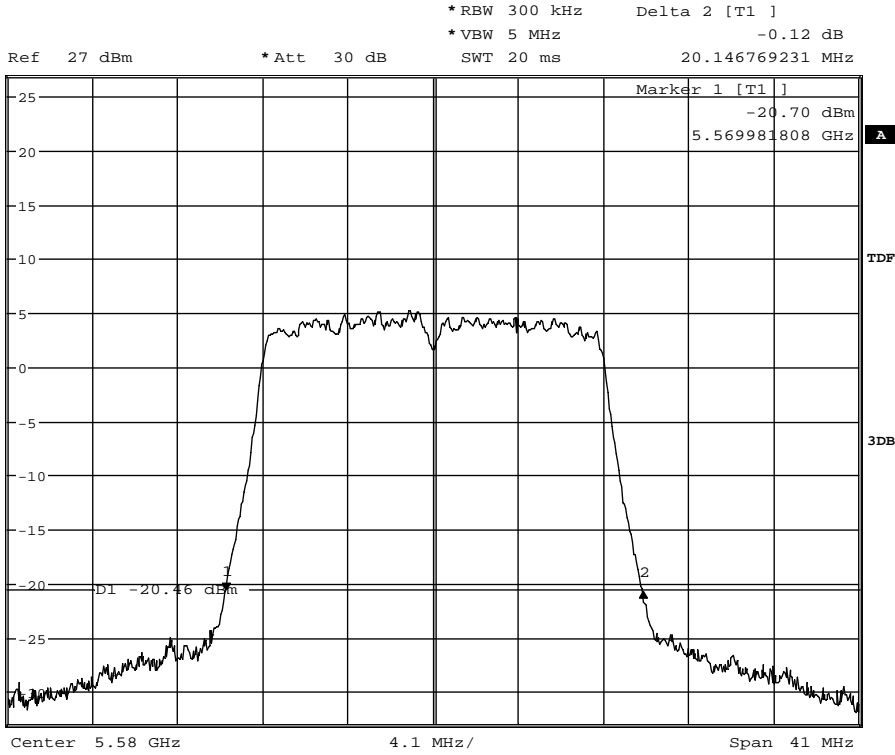
Date: 3.FEB.2015 15:02:05



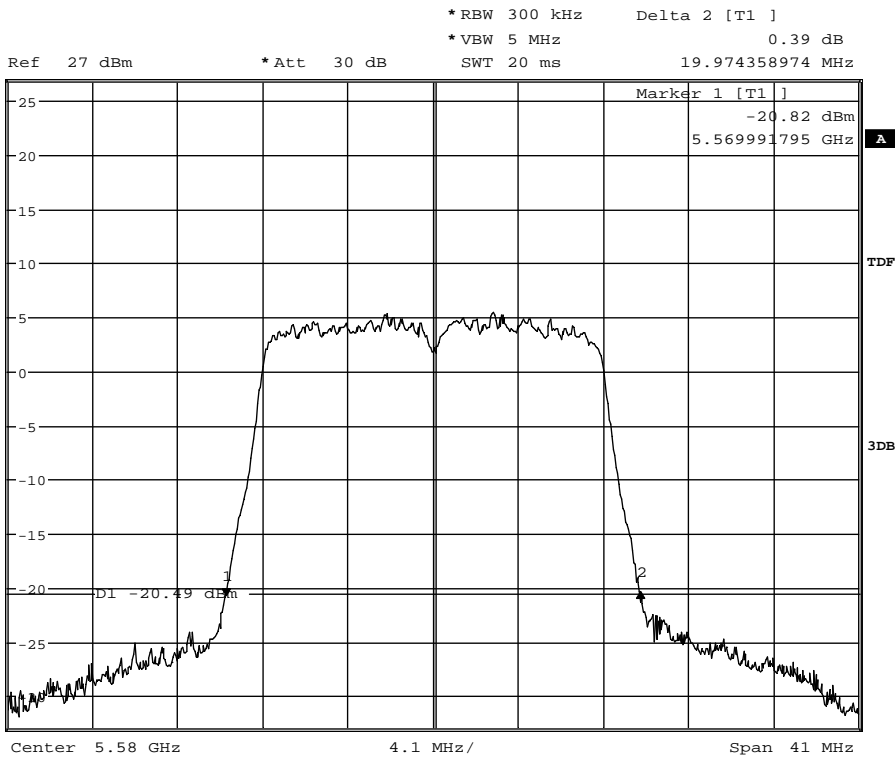
Date: 3.FEB.2015 14:54:56



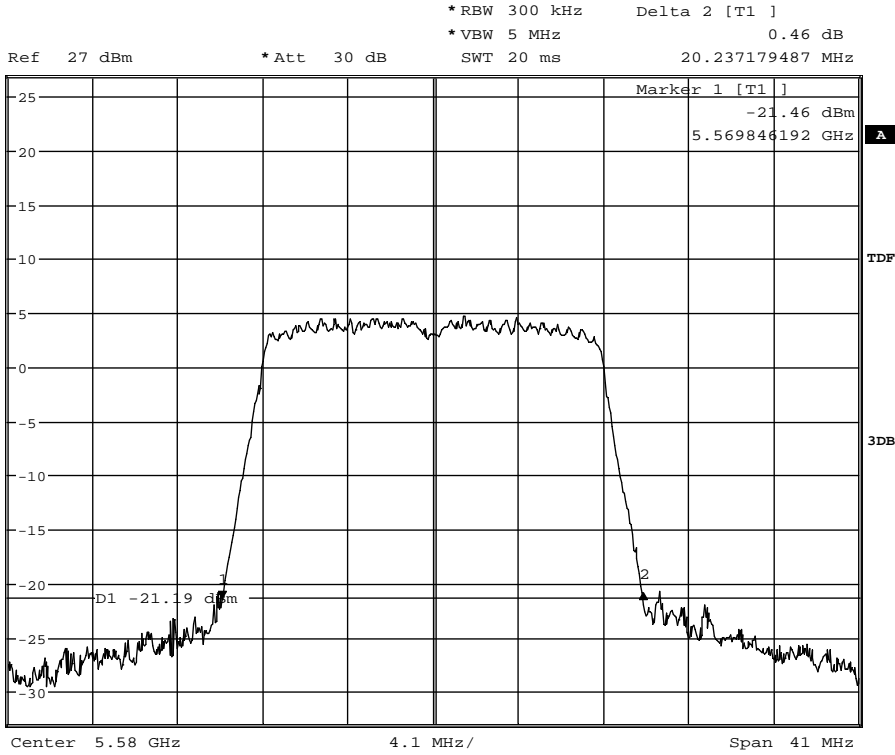
Date: 3.FEB.2015 14:50:23



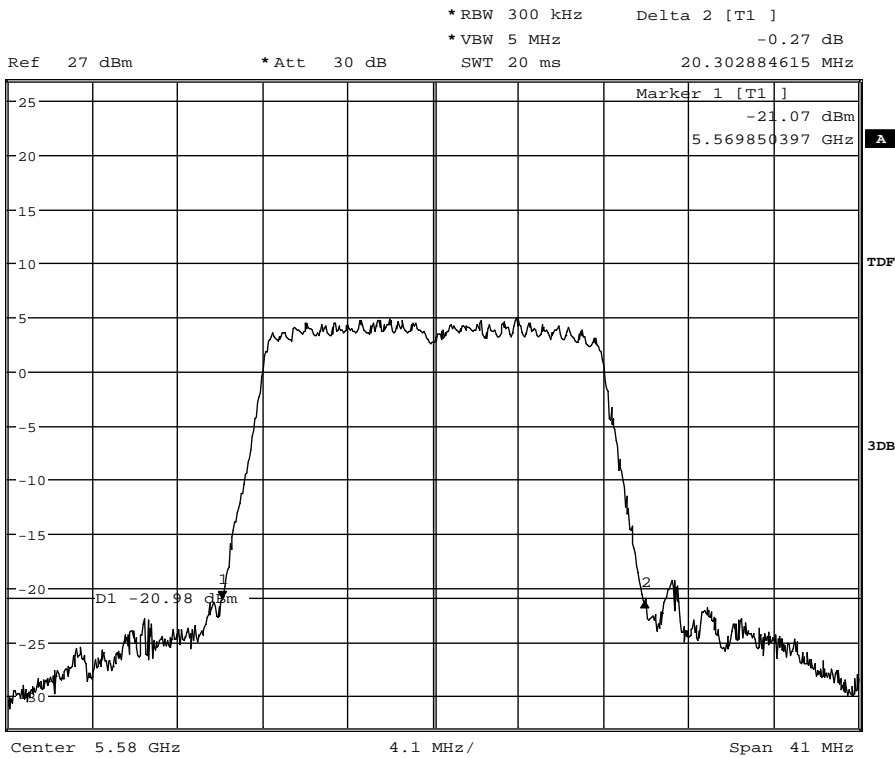
Date: 3.FEB.2015 14:47:02



Date: 3.FEB.2015 14:43:06

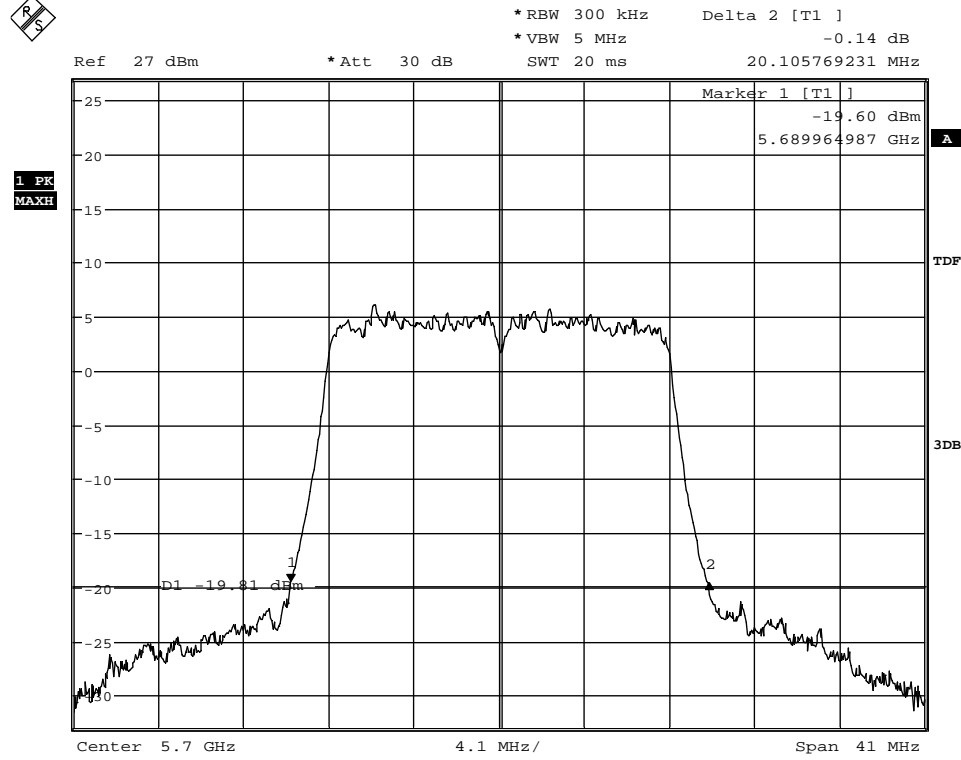


Date: 3.FEB.2015 14:39:55

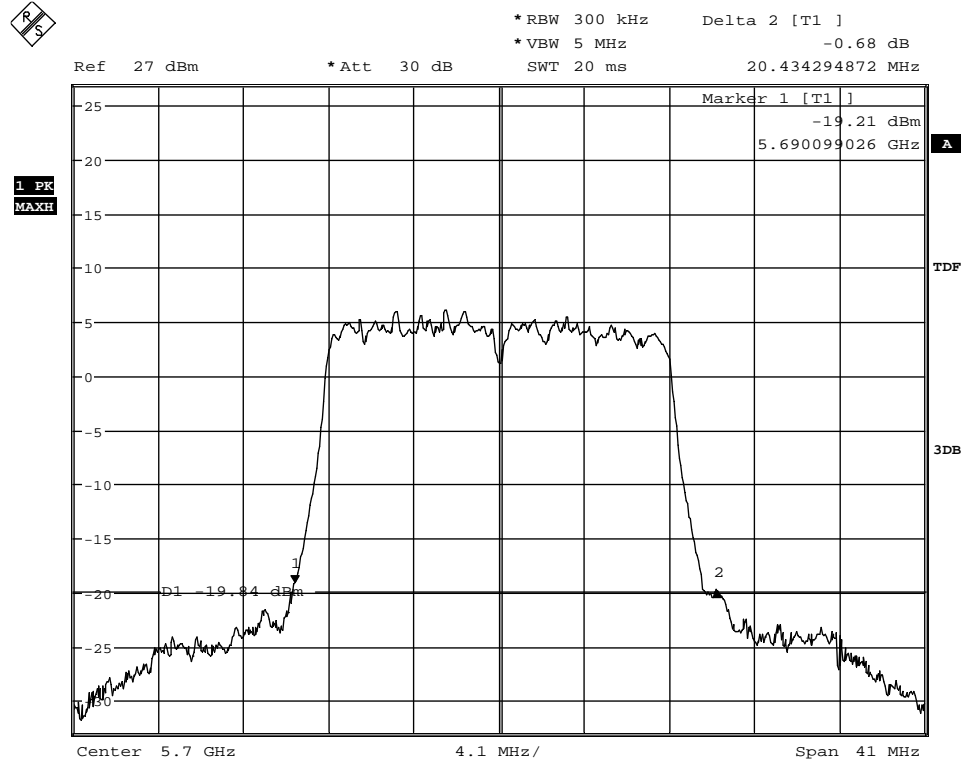


Date: 3.FEB.2015 14:36:23

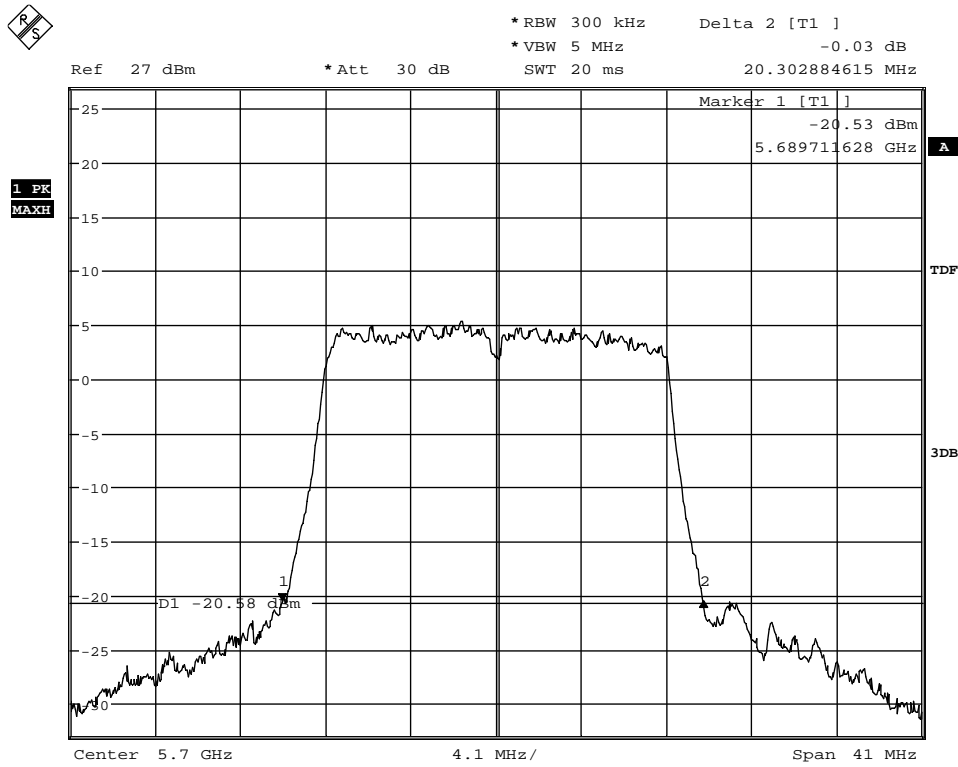
a-mode, Channel 140



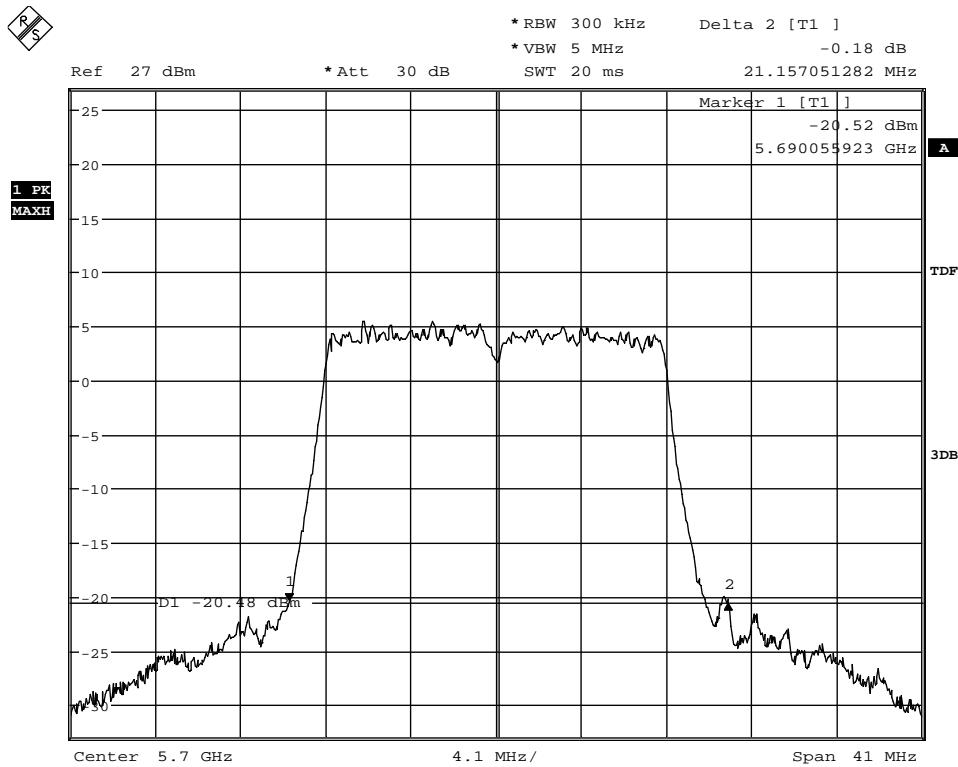
Date: 3.FEB.2015 15:35:53



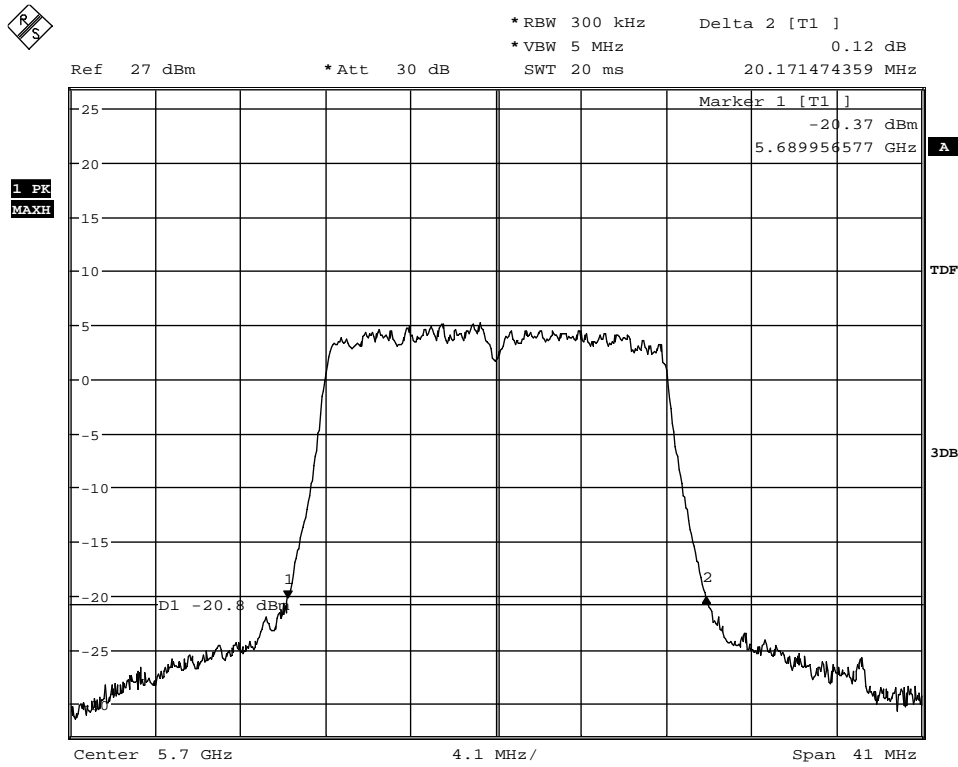
Date: 3.FEB.2015 15:33:20



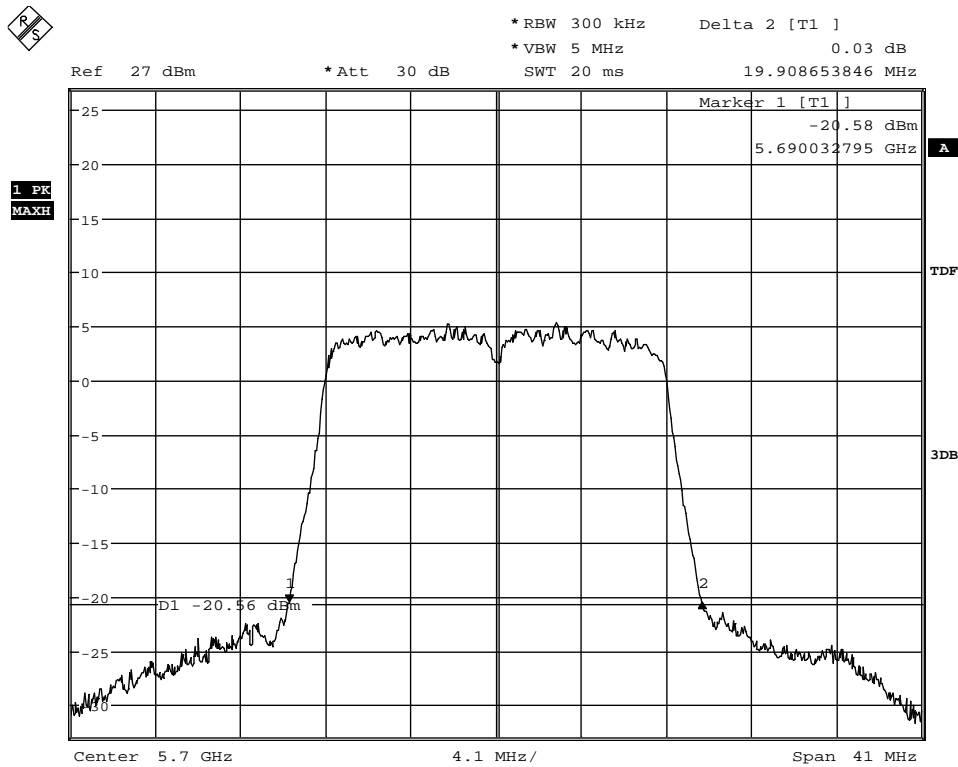
Date: 3.FEB.2015 15:30:22



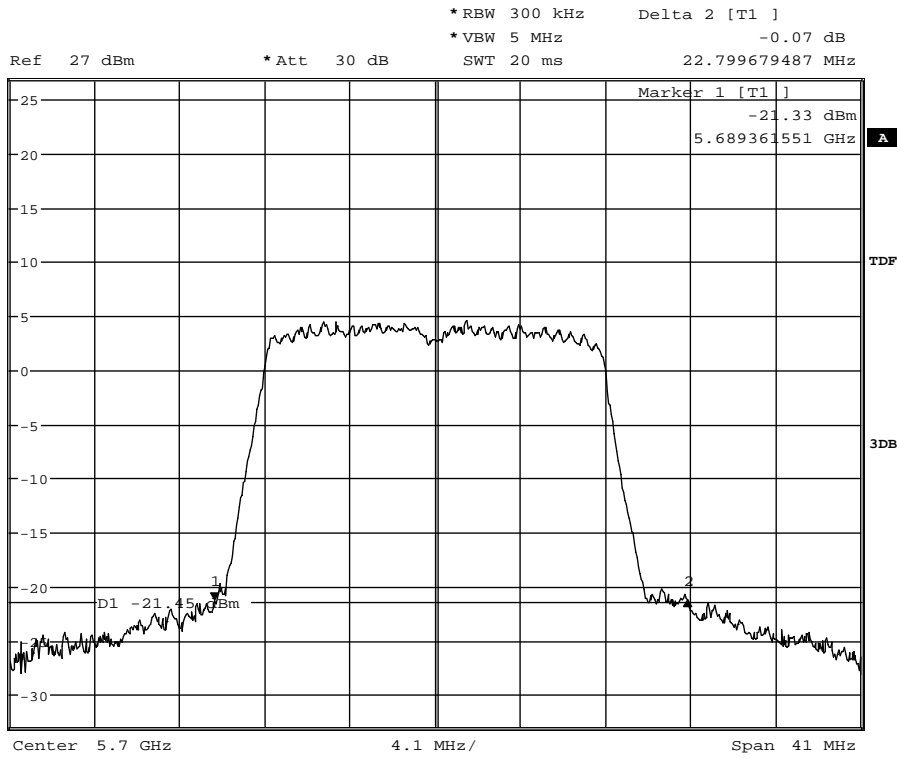
Date: 3.FEB.2015 15:27:52



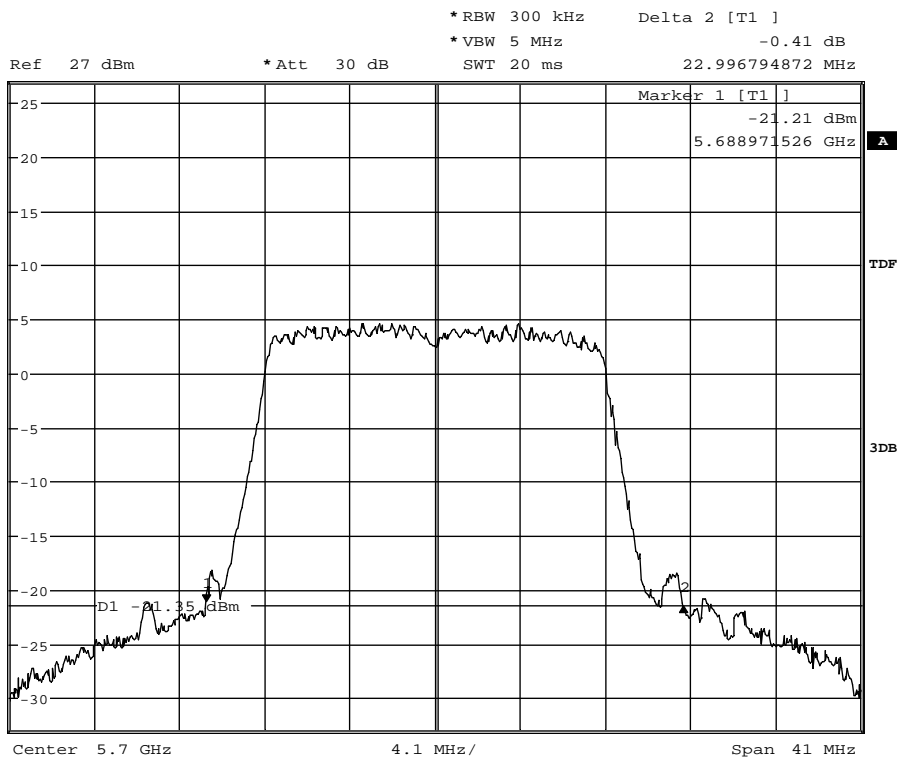
Date: 3.FEB.2015 15:25:27



Date: 3.FEB.2015 15:22:59

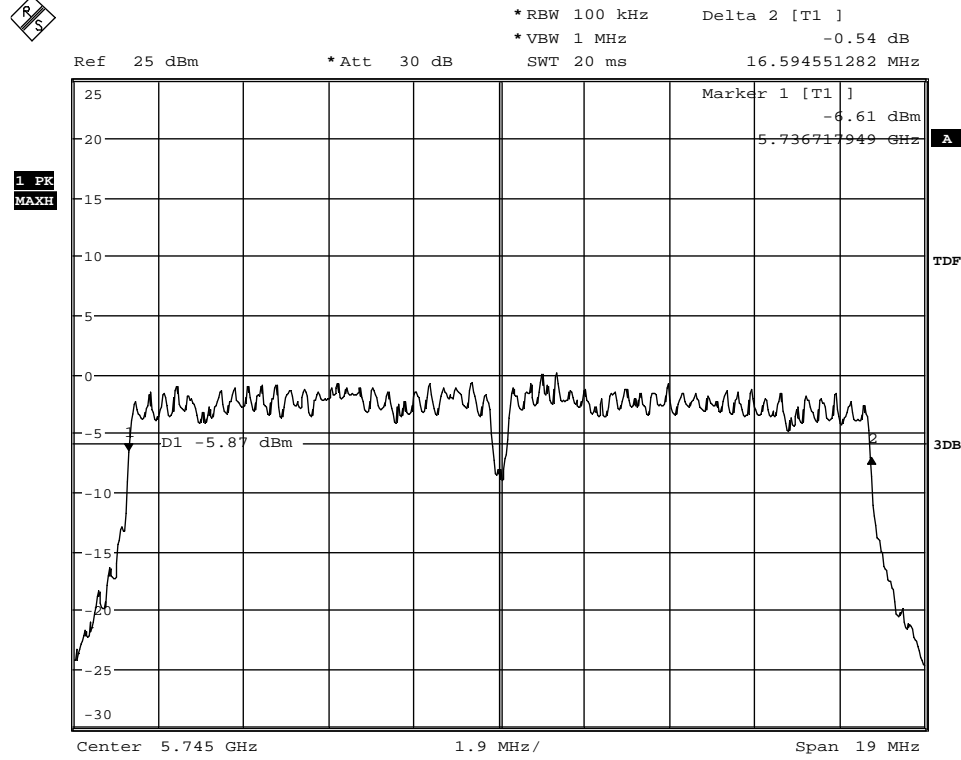


Date: 3.FEB.2015 15:17:48

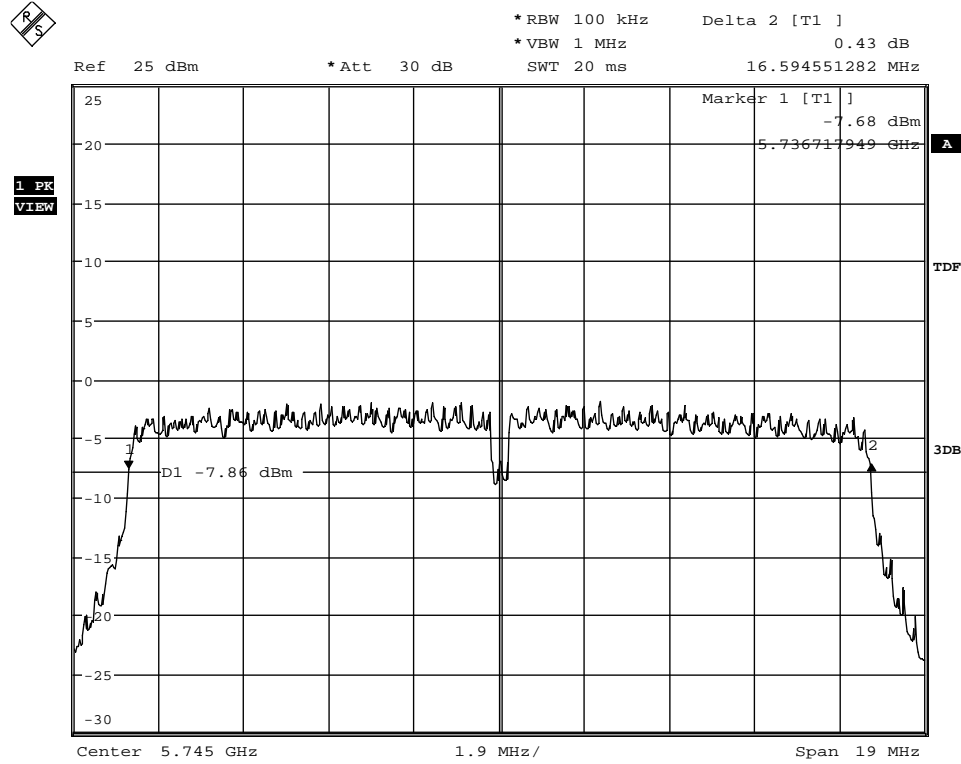


Date: 3.FEB.2015 15:13:39

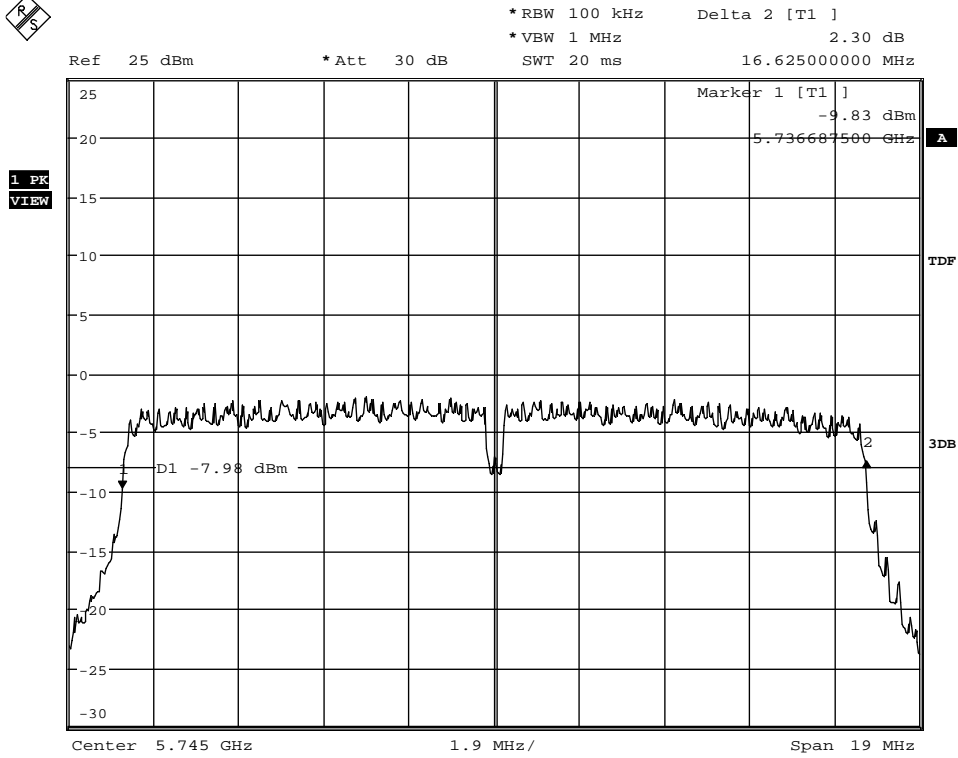
a-mode, Channel 149



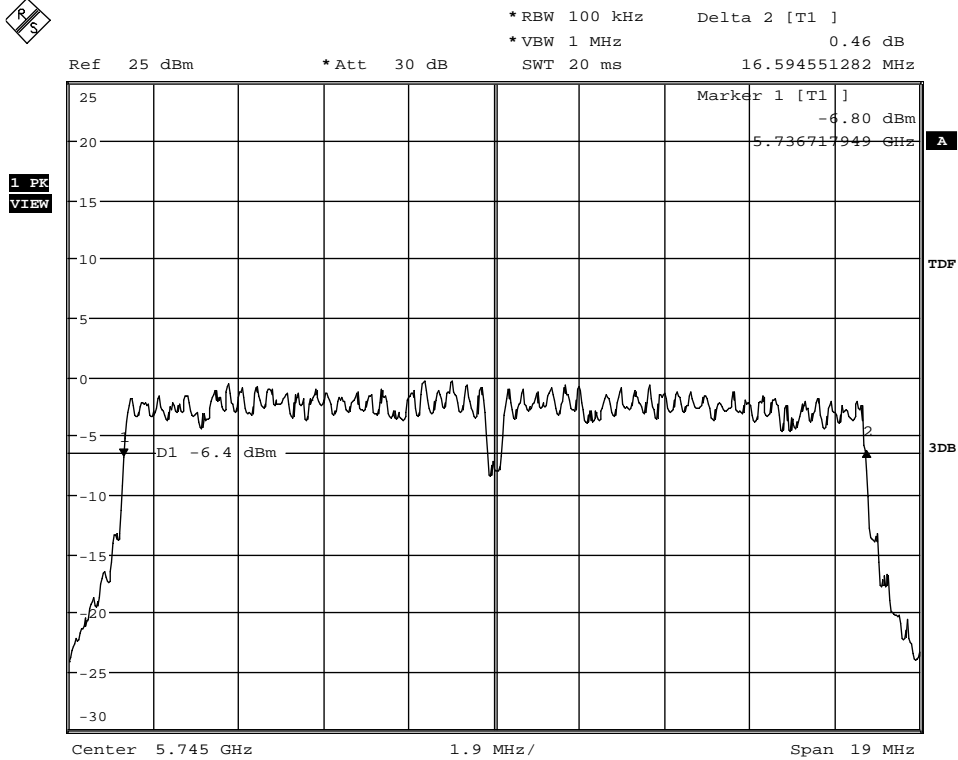
Date: 6.FEB.2015 08:50:49



Date: 6.FEB.2015 08:43:28

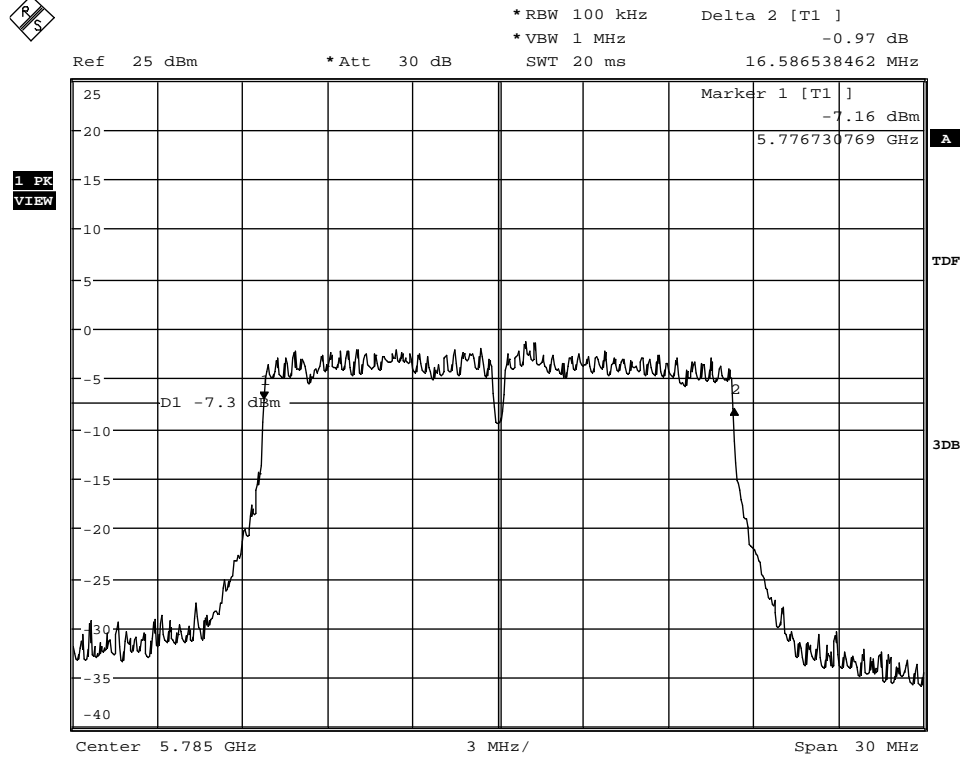


Date: 6.FEB.2015 08:47:21

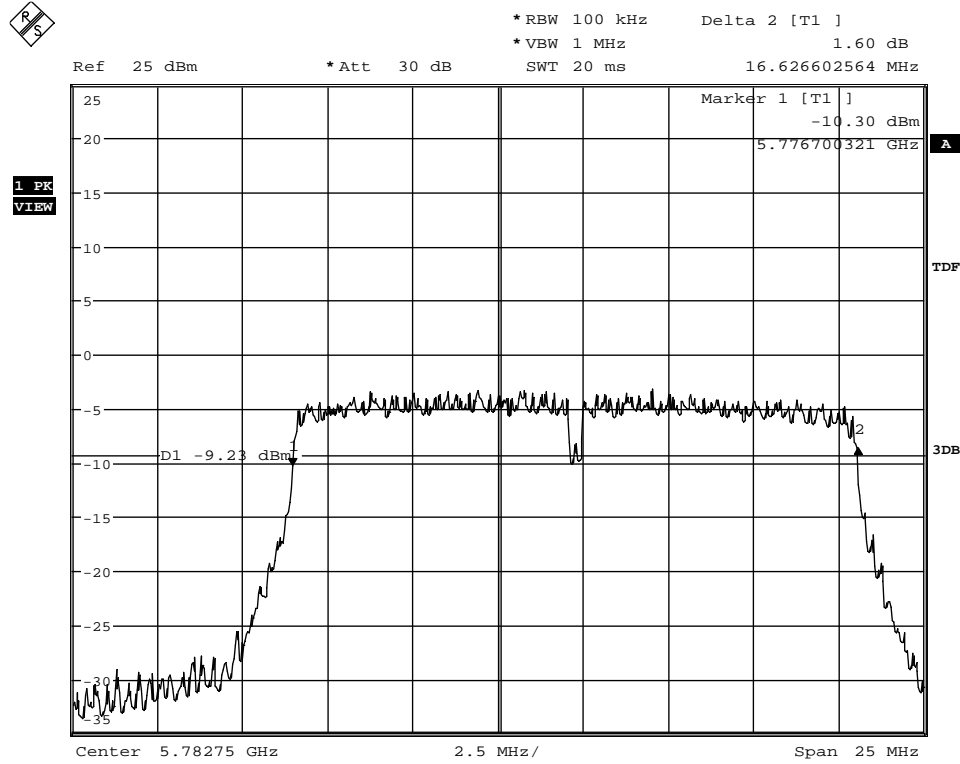


Date: 6.FEB.2015 08:54:00

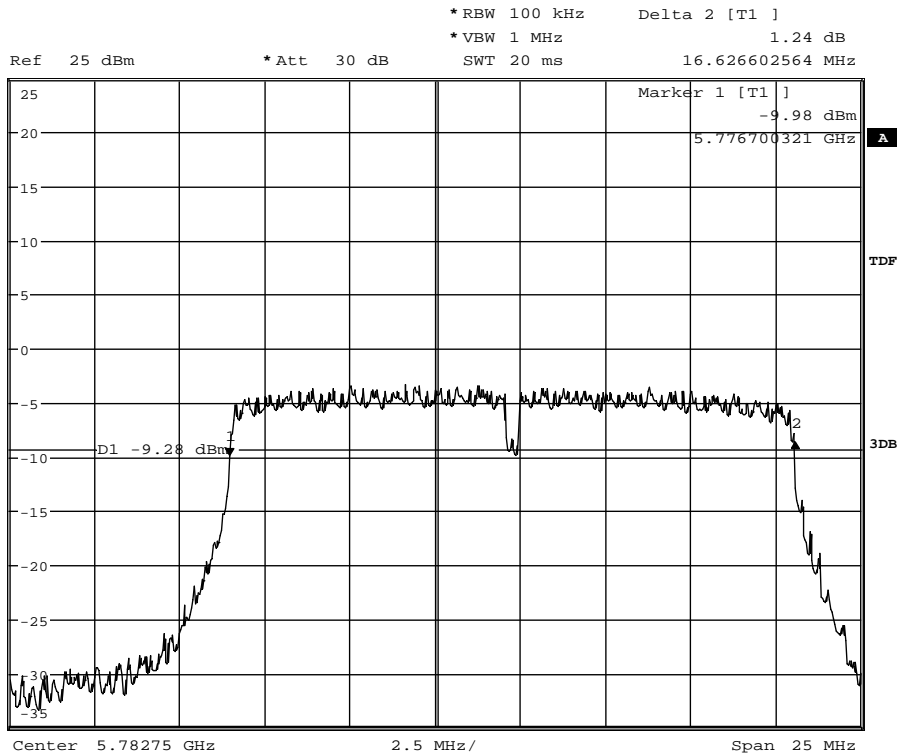
a-mode, Channel 157



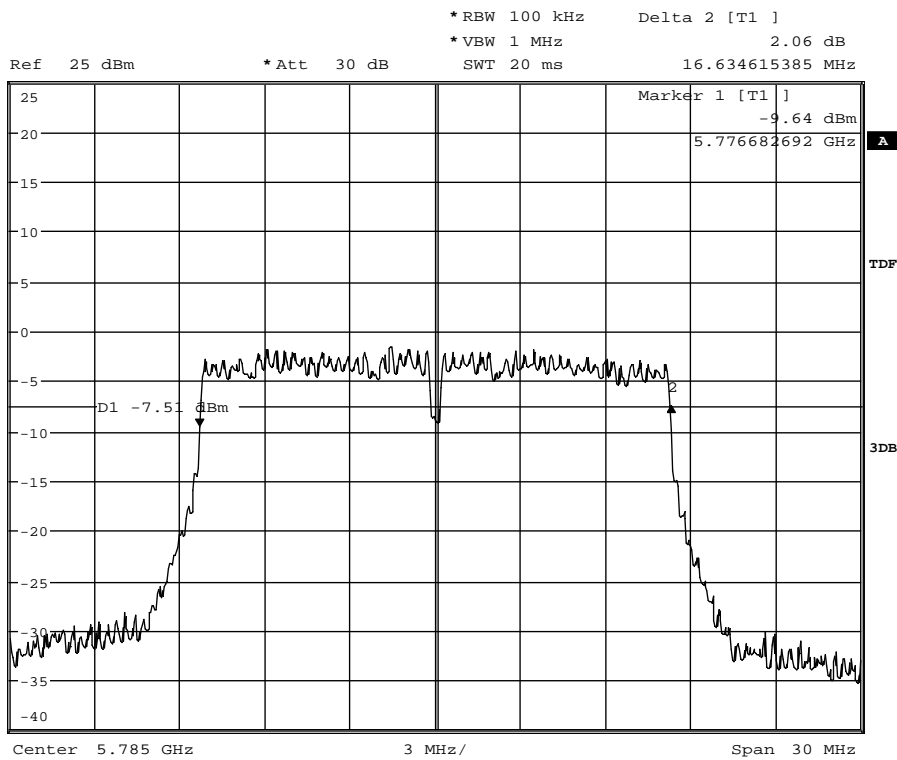
Date: 5.FEB.2015 13:45:06



Date: 5.FEB.2015 13:53:57

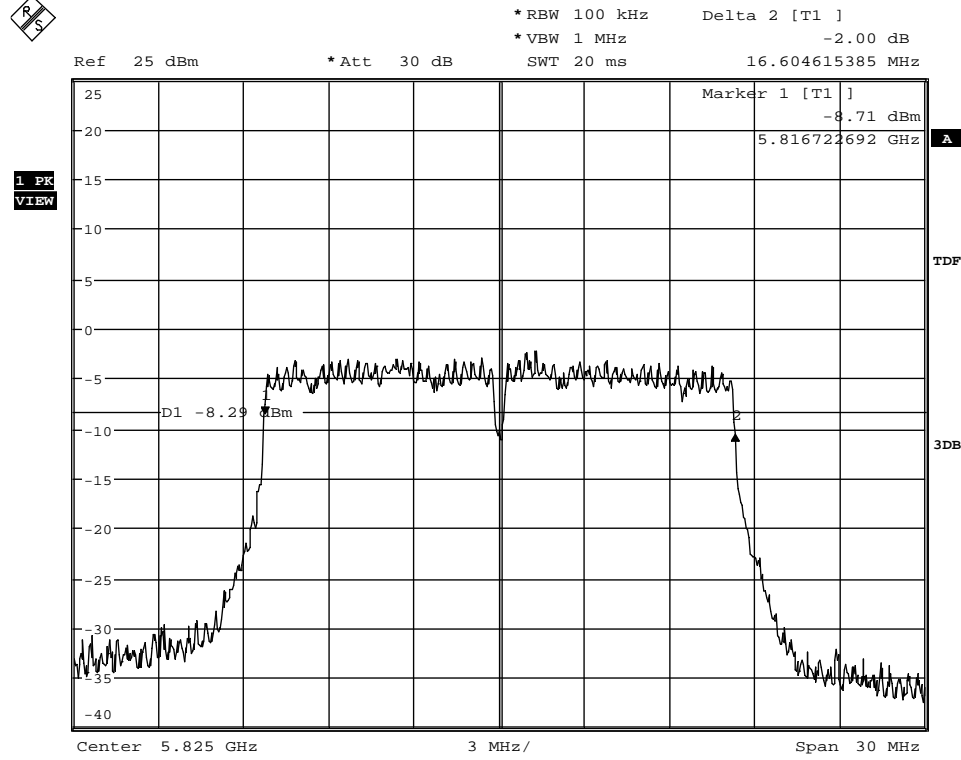


Date: 5.FEB.2015 13:51:17

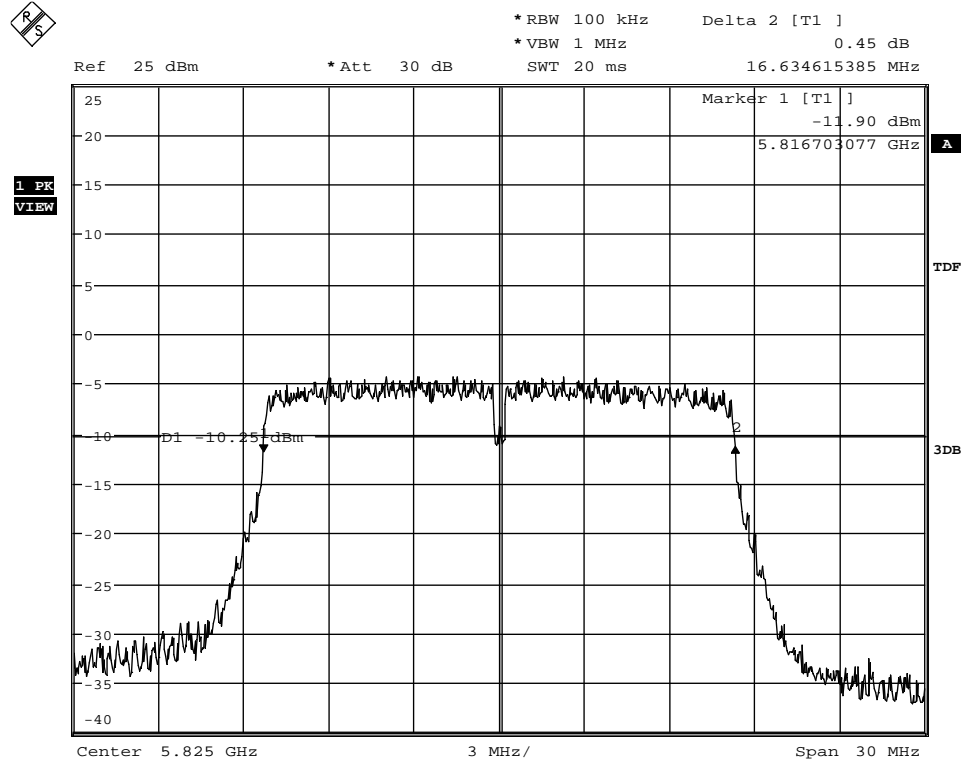


Date: 5.FEB.2015 13:42:24

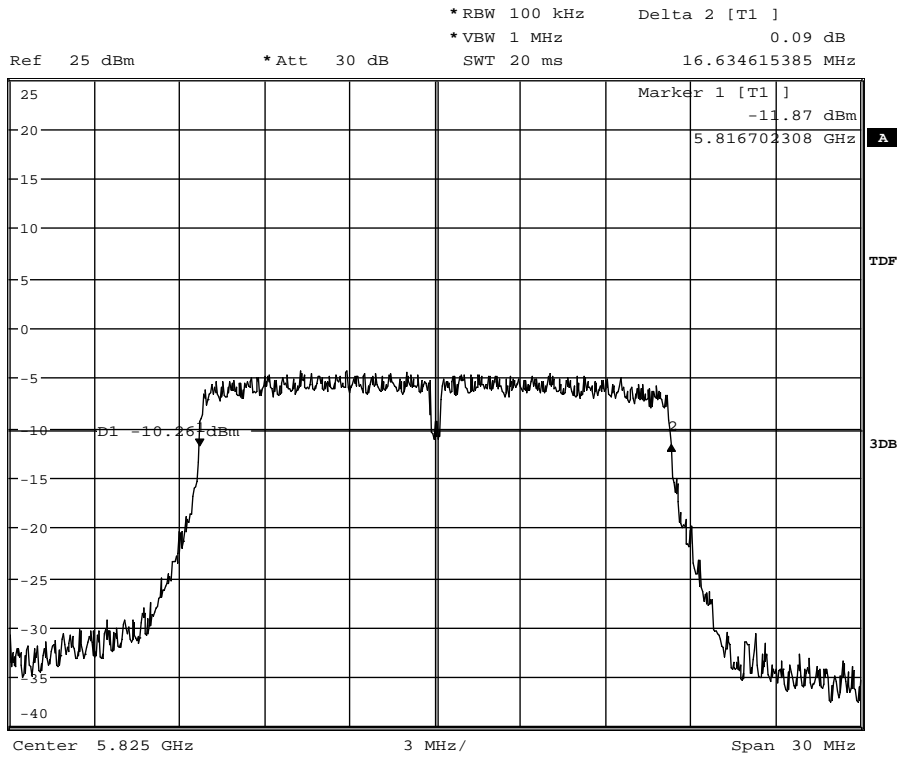
a-mode, Channel 165



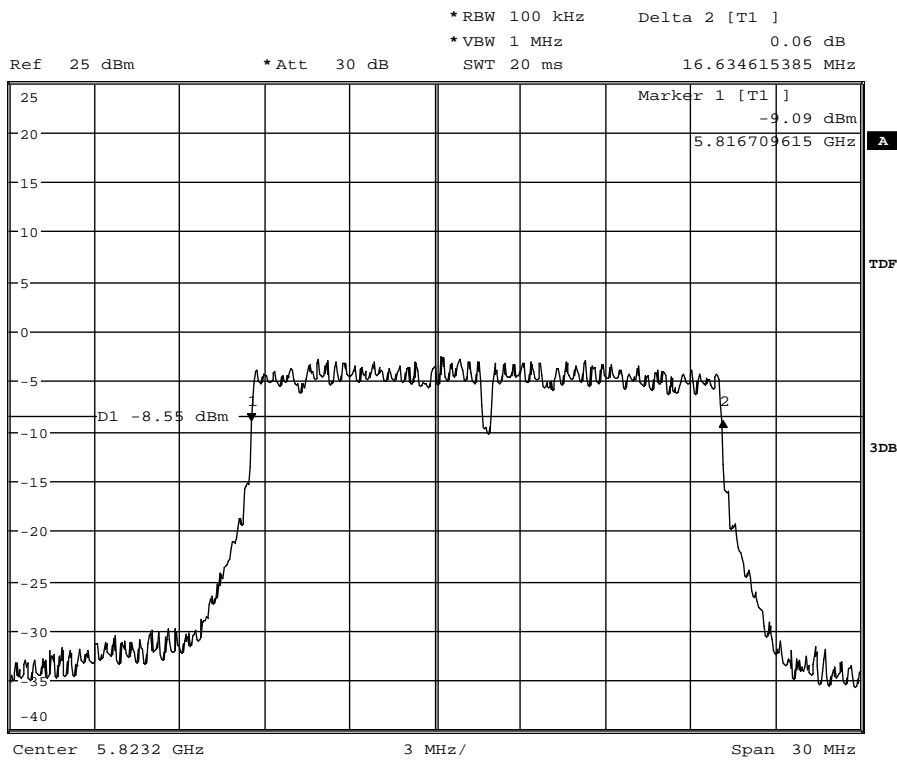
Date: 5.FEB.2015 13:31:19



Date: 5.FEB.2015 13:27:50



Date: 5.FEB.2015 13:24:51

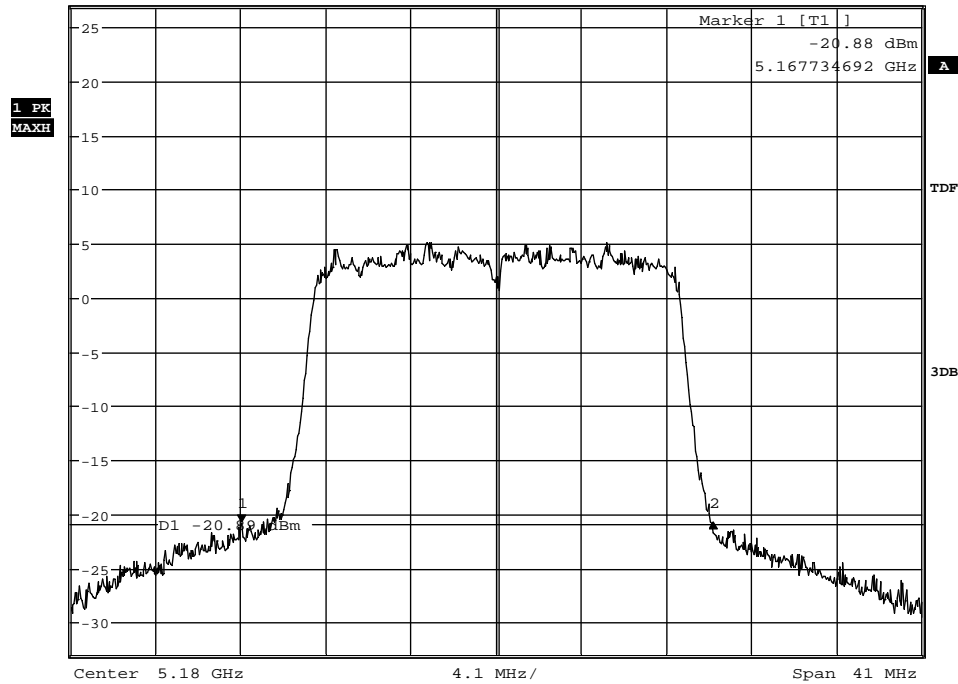


Date: 5.FEB.2015 13:37:31

n-mode, Channel 36



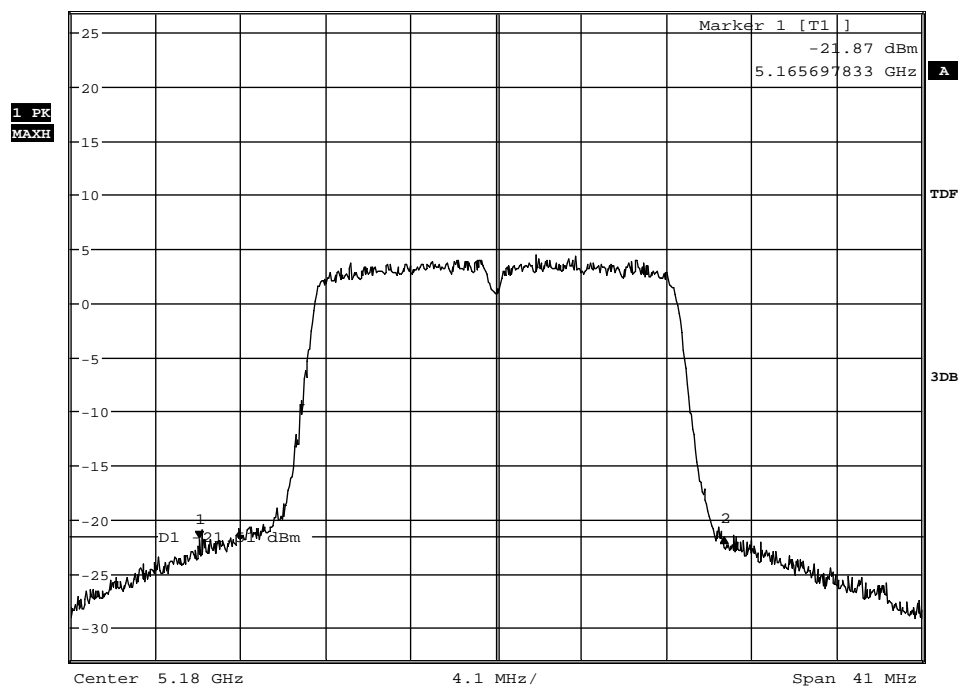
04.Feb 15 10:46
 Ref 27 dBm *Att 30 dB *RBW 300 kHz Delta 2 [T1]
 *VBW 5 MHz 0.02 dB
 *SWT 20 ms 22.733974359 MHz



Date: 4.FEB.2015 10:46:01



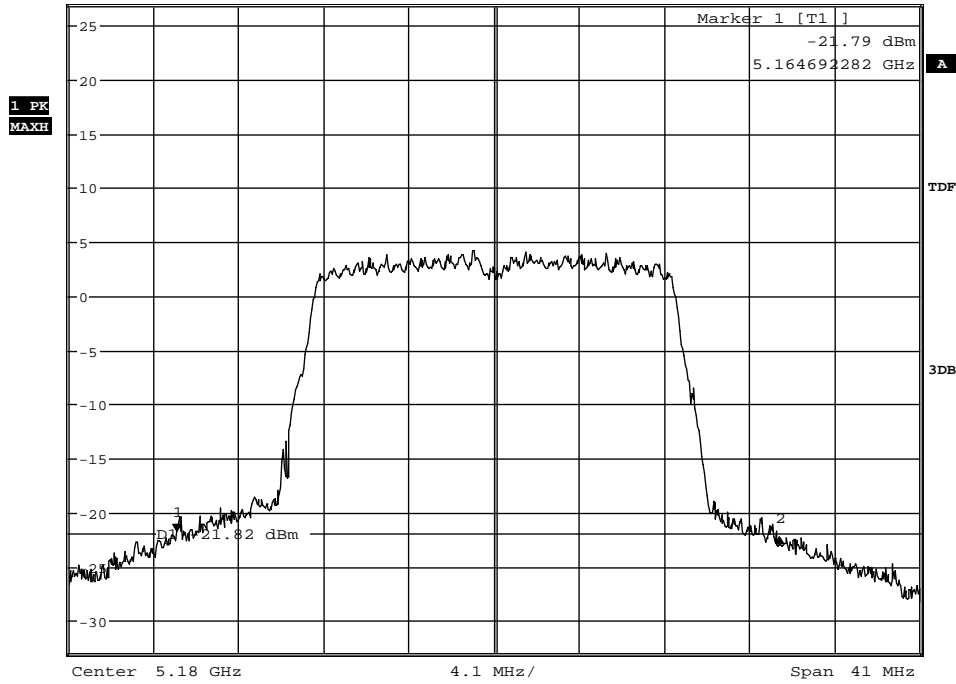
04.Feb 15 10:37
 Ref 27 dBm *Att 30 dB *RBW 300 kHz Delta 2 [T1]
 *VBW 5 MHz 0.18 dB
 *SWT 20 ms 25.230769231 MHz



Date: 4.FEB.2015 10:37:59



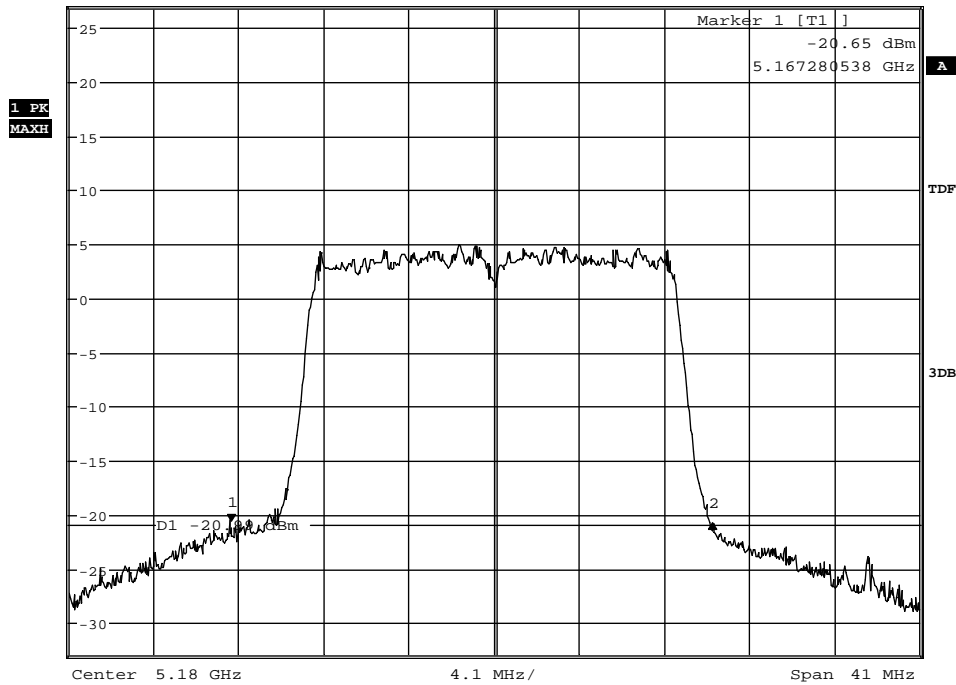
04.Feb 15 10:30 *RBW 300 kHz Delta 2 [T1]
Ref 27 dBm *Att 30 dB *VBW 5 MHz -0.55 dB
*SWT 20 ms 29.041666667 MHz



Date: 4.FEB.2015 10:30:47



04.Feb 15 10:50 *RBW 300 kHz Delta 2 [T1]
Ref 27 dBm *Att 30 dB *VBW 5 MHz -0.17 dB
*SWT 20 ms 23.259615385 MHz

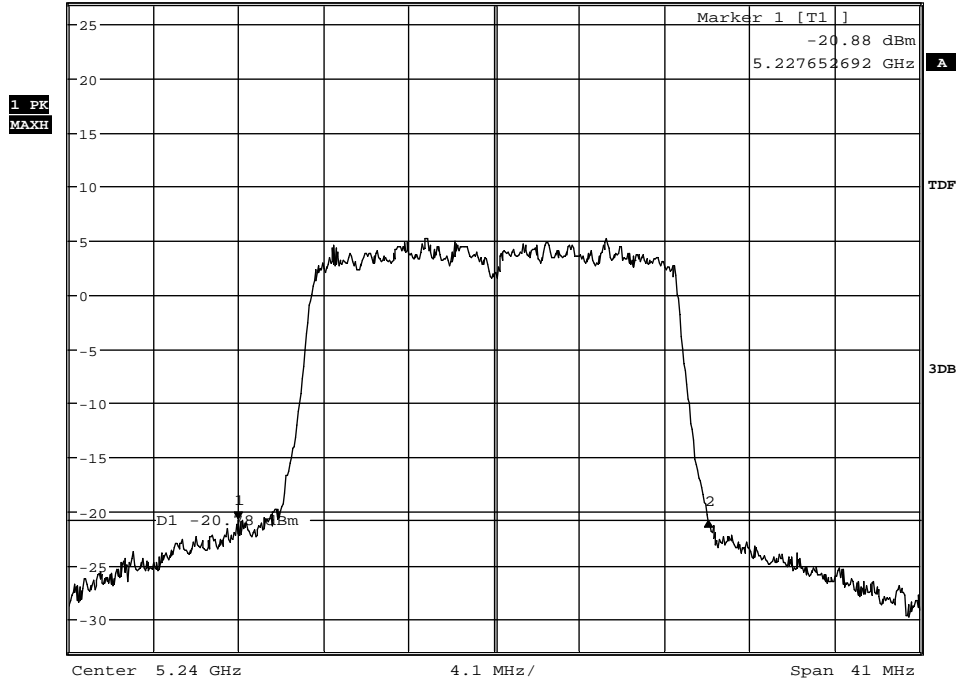


Date: 4.FEB.2015 10:50:04

n-mode, Channel 48



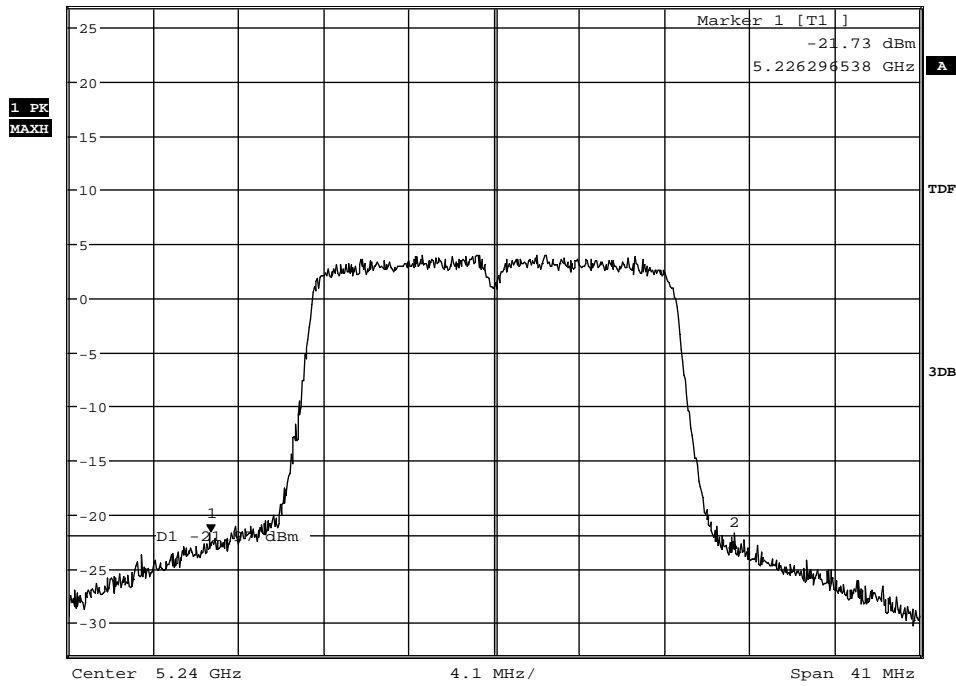
04.Feb 15 11:18 *RBW 300 kHz Delta 2 [T1]
Ref 27 dBm *Att 30 dB *VBW 5 MHz -0.13 dB
*SWT 20 ms 22.668269231 MHz



Date: 4.FEB.2015 11:18:19



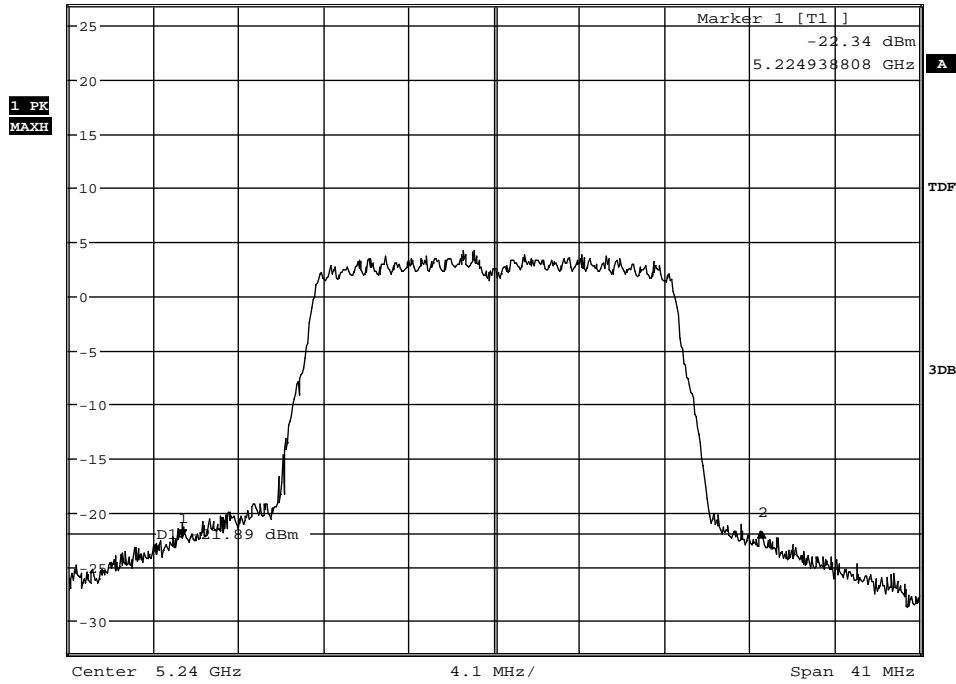
04.Feb 15 11:13 *RBW 300 kHz Delta 2 [T1]
Ref 27 dBm *Att 30 dB *VBW 5 MHz -0.90 dB
*SWT 20 ms 25.165064103 MHz



Date: 4.FEB.2015 11:13:15



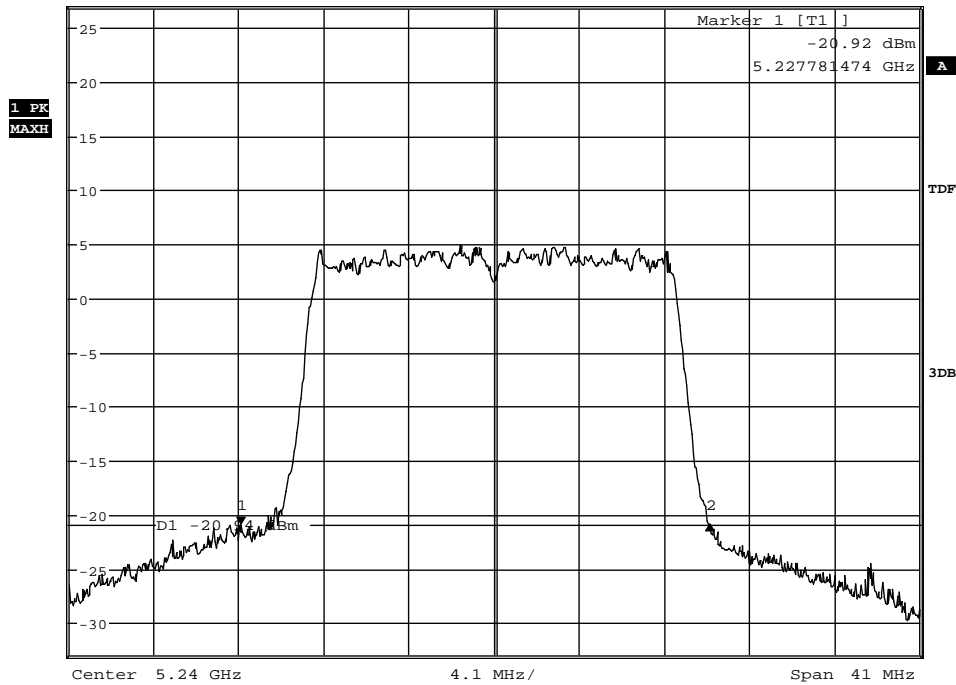
04.Feb 15 10:58 *RBW 300 kHz Delta 2 [T1]
Ref 27 dBm *Att 30 dB *VBW 5 MHz 0.47 dB
*SWT 20 ms 27.940974359 MHz



Date: 4.FEB.2015 10:58:33



04.Feb 15 11:23 *RBW 300 kHz Delta 2 [T1]
Ref 27 dBm *Att 30 dB *VBW 5 MHz -0.07 dB
*SWT 20 ms 22.602564103 MHz

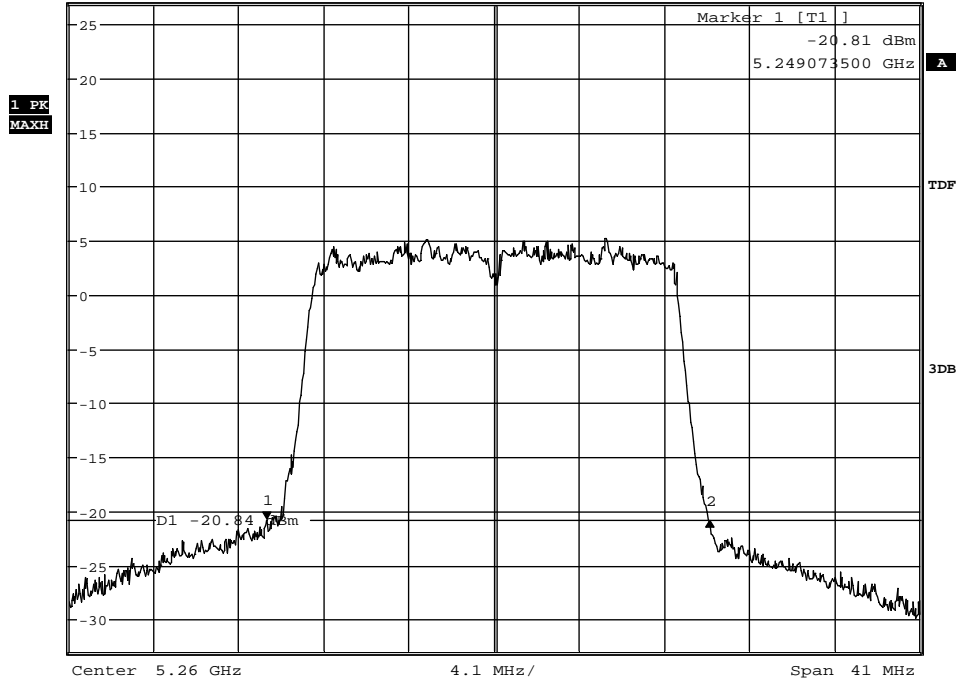


Date: 4.FEB.2015 11:23:03

n-mode, Channel 52



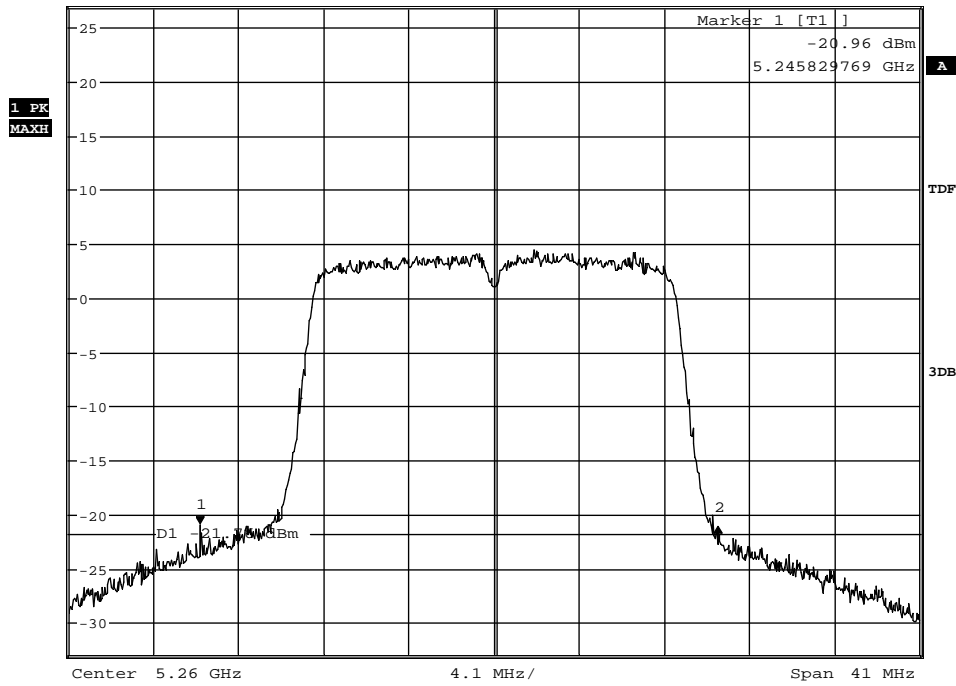
04.Feb 15 11:46
Ref 27 dBm *Att 30 dB *RBW 300 kHz Delta 2 [T1]
*VBW 5 MHz -0.17 dB
*SWT 20 ms 21.291089744 MHz



Date: 4.FEB.2015 11:46:28



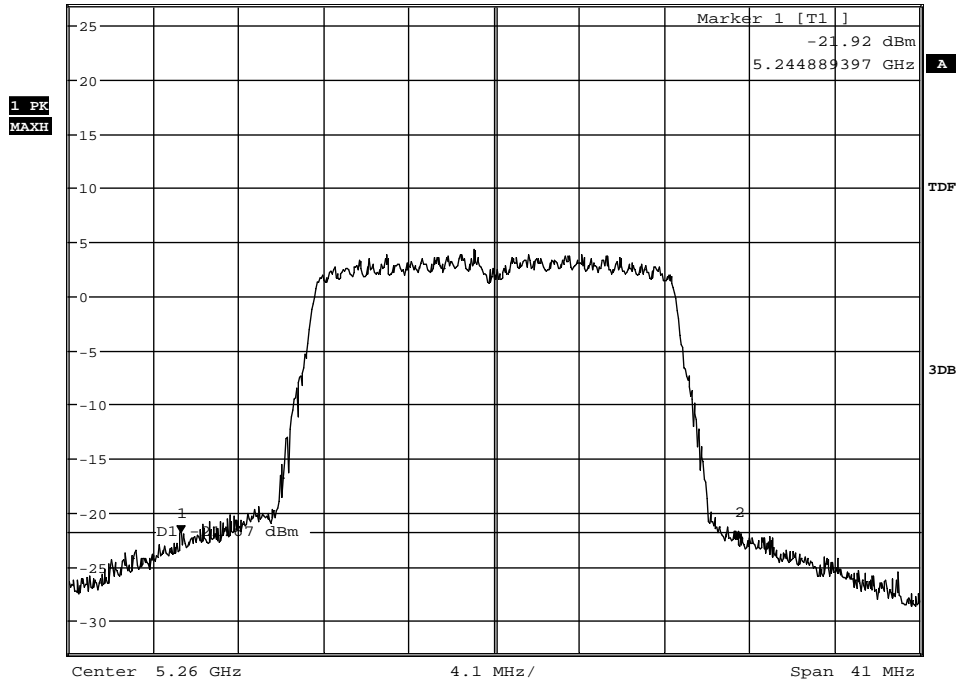
04.Feb 15 11:32
Ref 27 dBm *Att 30 dB *RBW 300 kHz Delta 2 [T1]
*VBW 5 MHz -0.29 dB
*SWT 20 ms 24.967423077 MHz



Date: 4.FEB.2015 11:32:32



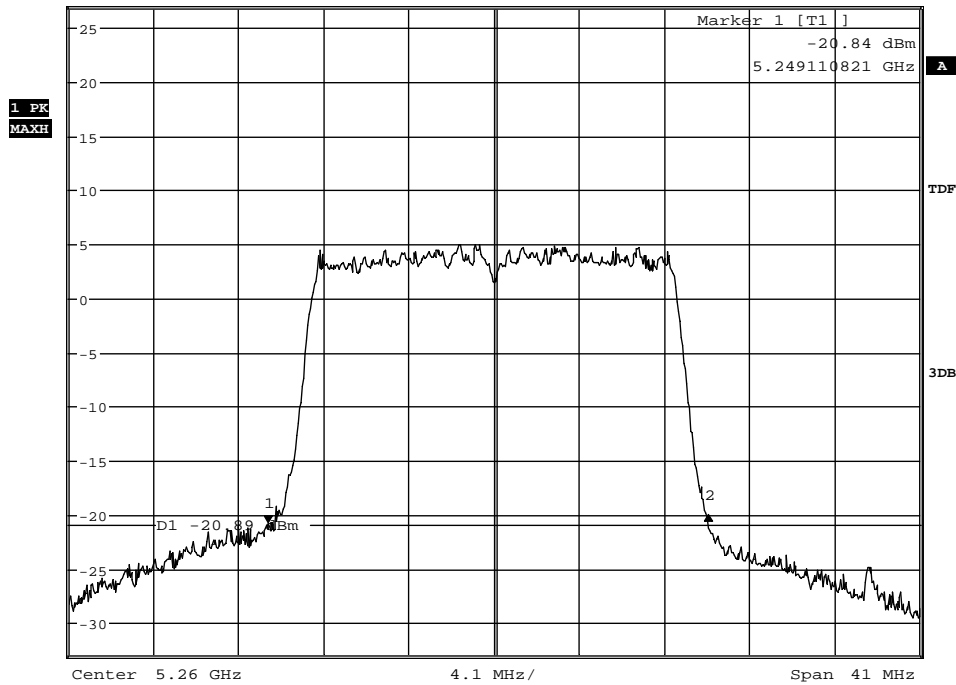
04.Feb 15 11:28 *RBW 300 kHz Delta 2 [T1]
 Ref 27 dBm *Att 30 dB *VBW 5 MHz 0.08 dB
 *SWT 20 ms 26.873397436 MHz



Date: 4.FEB.2015 11:28:19



04.Feb 15 11:50 *RBW 300 kHz Delta 2 [T1]
 Ref 27 dBm *Att 30 dB *VBW 5 MHz 0.77 dB
 *SWT 20 ms 21.222756410 MHz

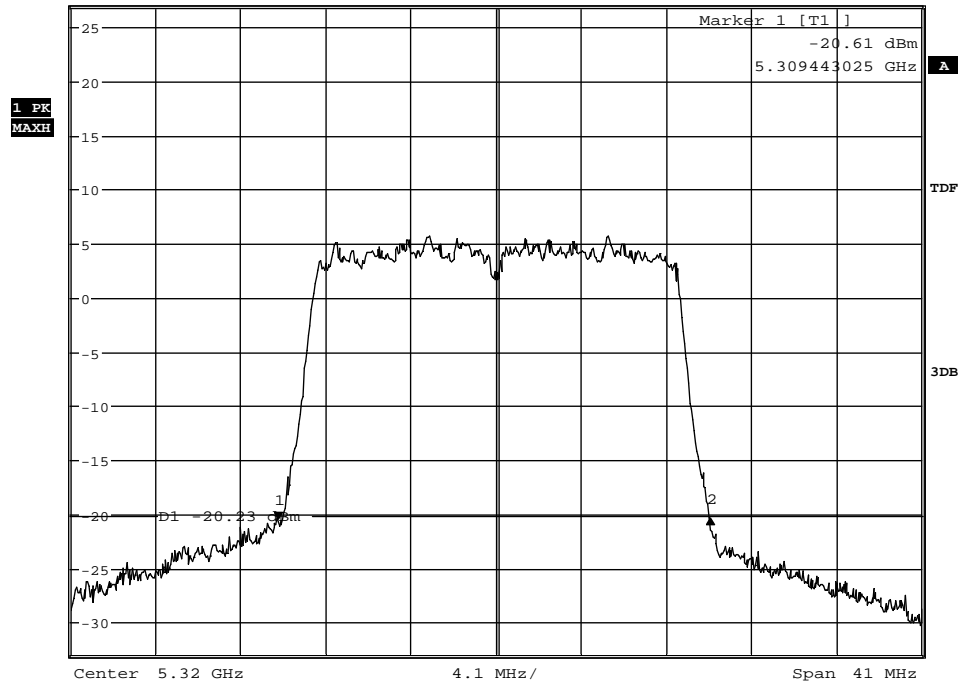


Date: 4.FEB.2015 11:50:50

n-mode, Channel 64



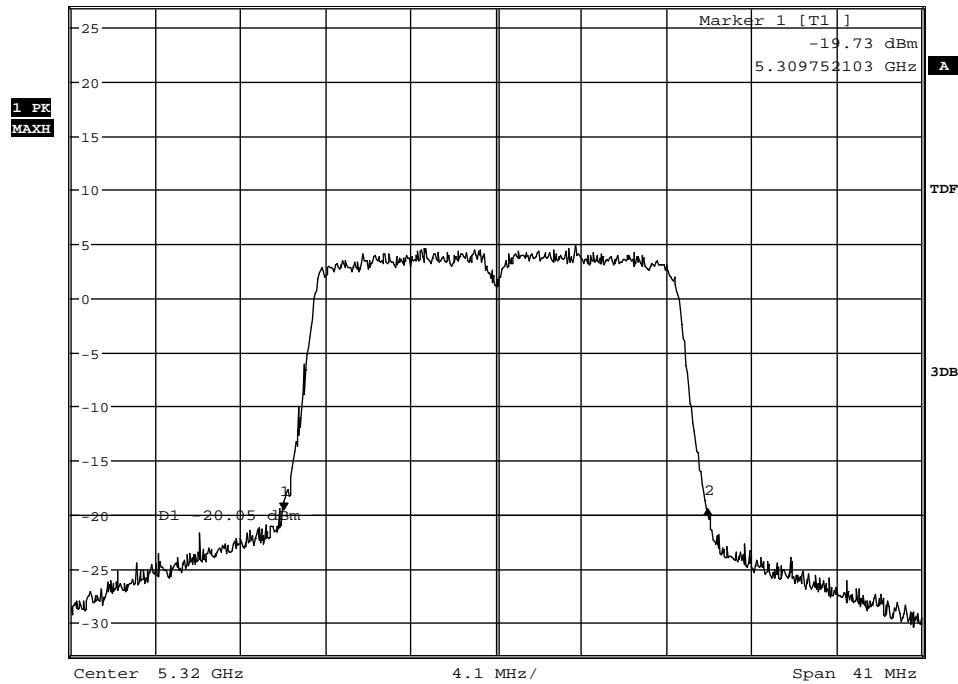
04.Feb 15 13:59 *RBW 300 kHz Delta 2 [T1]
Ref 27 dBm *Att 30 dB *VBW 5 MHz 0.18 dB
*SWT 20 ms 20.828525897 MHz



Date: 4.FEB.2015 13:59:07



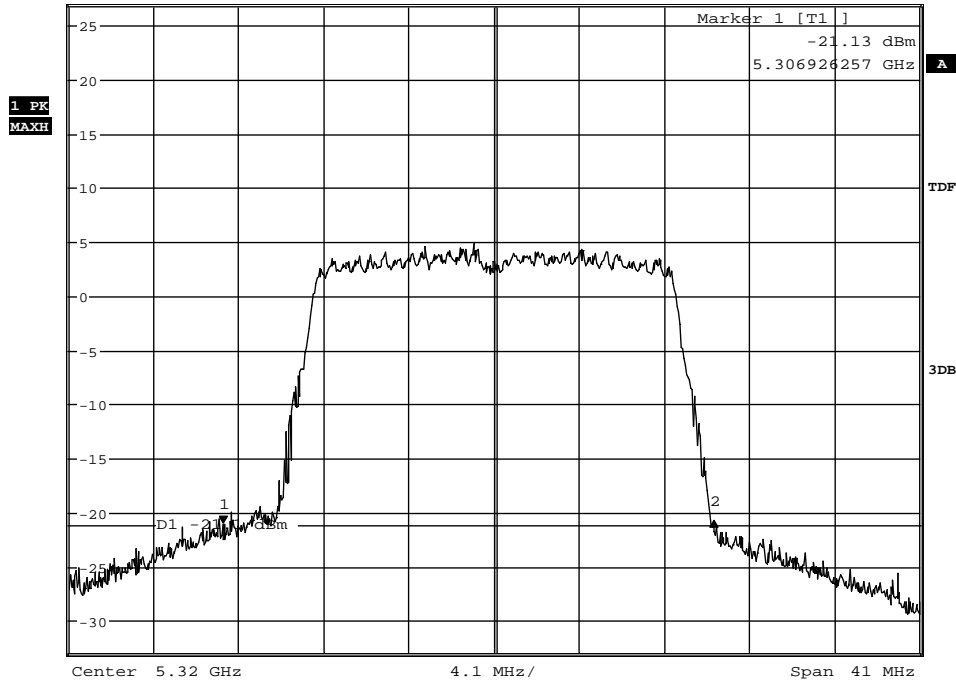
04.Feb 15 13:54 *RBW 300 kHz Delta 2 [T1]
Ref 27 dBm *Att 30 dB *VBW 5 MHz 0.13 dB
*SWT 20 ms 20.434294872 MHz



Date: 4.FEB.2015 13:54:42



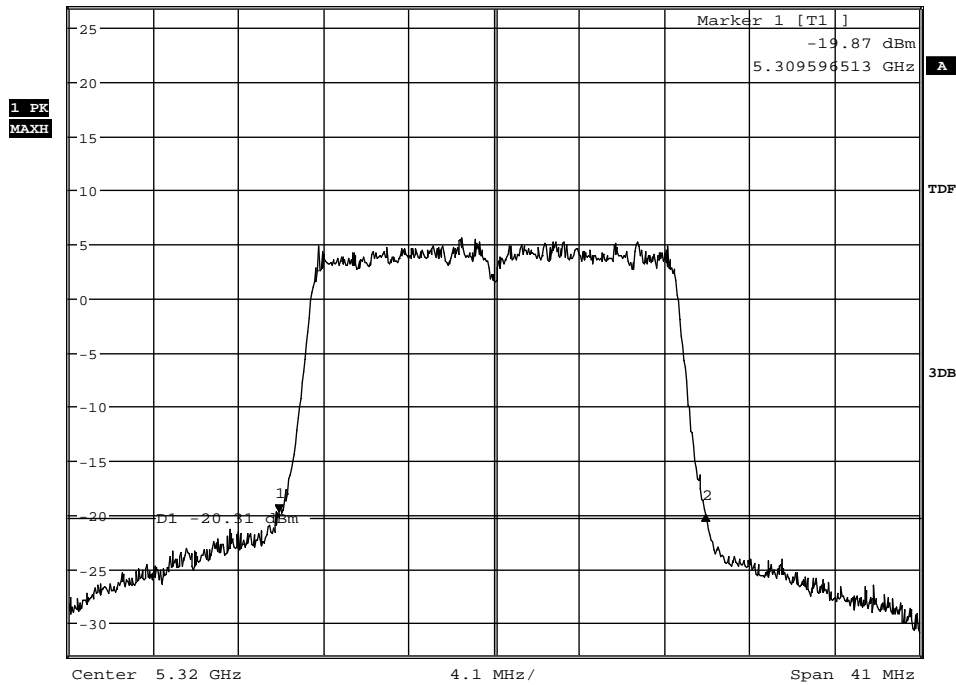
04.Feb 15 13:51 *RBW 300 kHz Delta 2 [T1]
Ref 27 dBm *Att 30 dB *VBW 5 MHz 0.33 dB
*SWT 20 ms 23.653846026 MHz



Date: 4.FEB.2015 13:51:22



04.Feb 15 14:01 *RBW 300 kHz Delta 2 [T1]
Ref 27 dBm *Att 30 dB *VBW 5 MHz -0.17 dB
*SWT 20 ms 20.631410256 MHz

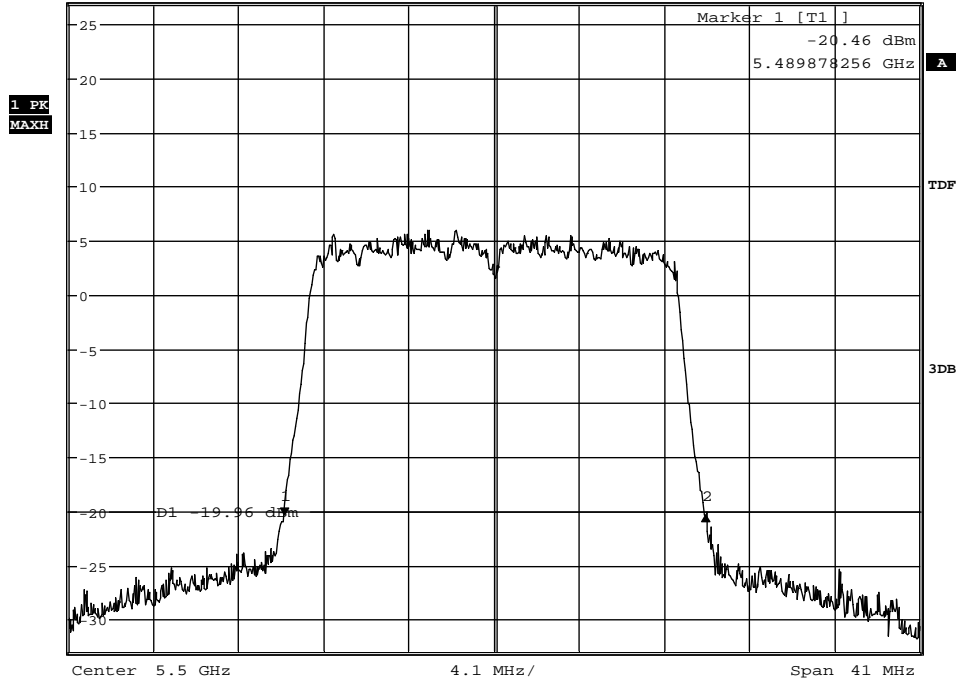


Date: 4.FEB.2015 14:01:44

n-mode, Channel 100



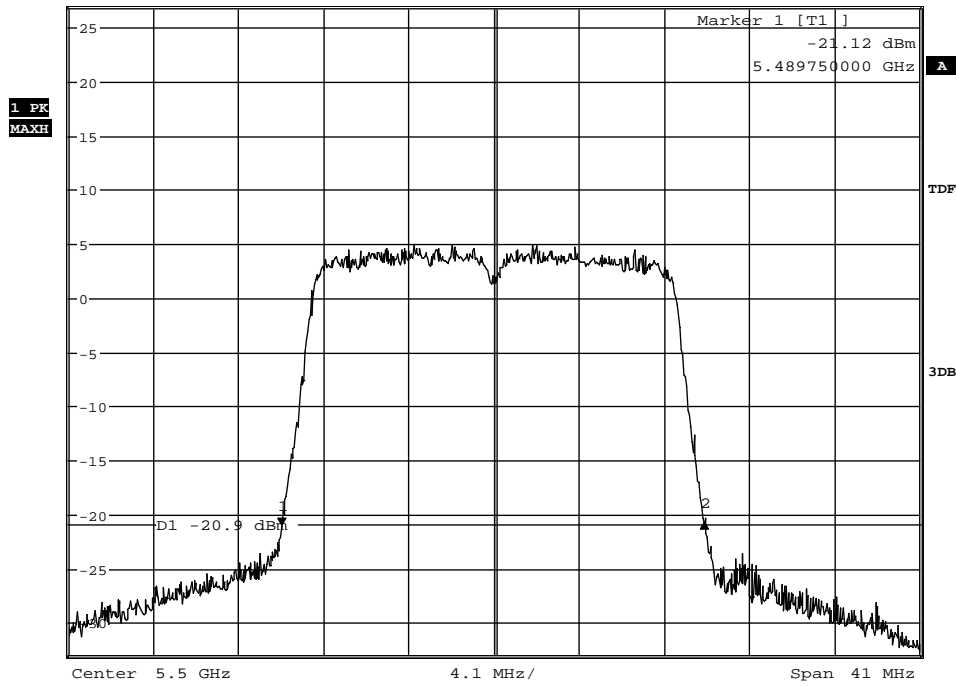
04.Feb 15 14:09 *RBW 300 kHz Delta 2 [T1]
Ref 27 dBm *Att 30 dB *VBW 5 MHz -0.04 dB
*SWT 20 ms 20.302884615 MHz



Date: 4.FEB.2015 14:09:11



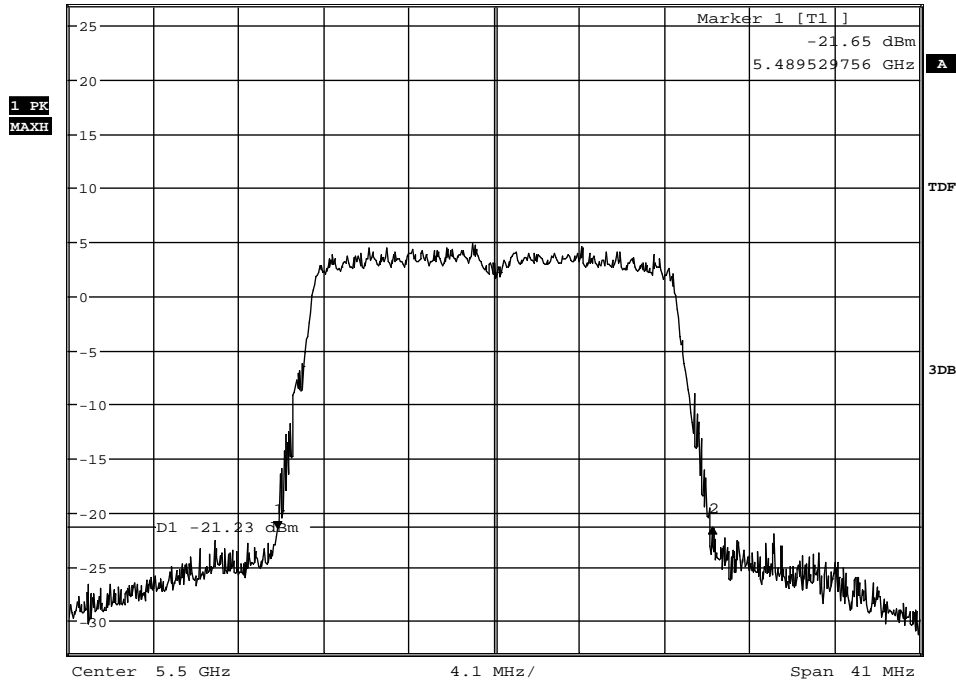
04.Feb 15 14:07 *RBW 300 kHz Delta 2 [T1]
Ref 27 dBm *Att 30 dB *VBW 5 MHz 0.31 dB
*SWT 20 ms 20.396448718 MHz



Date: 4.FEB.2015 14:07:17



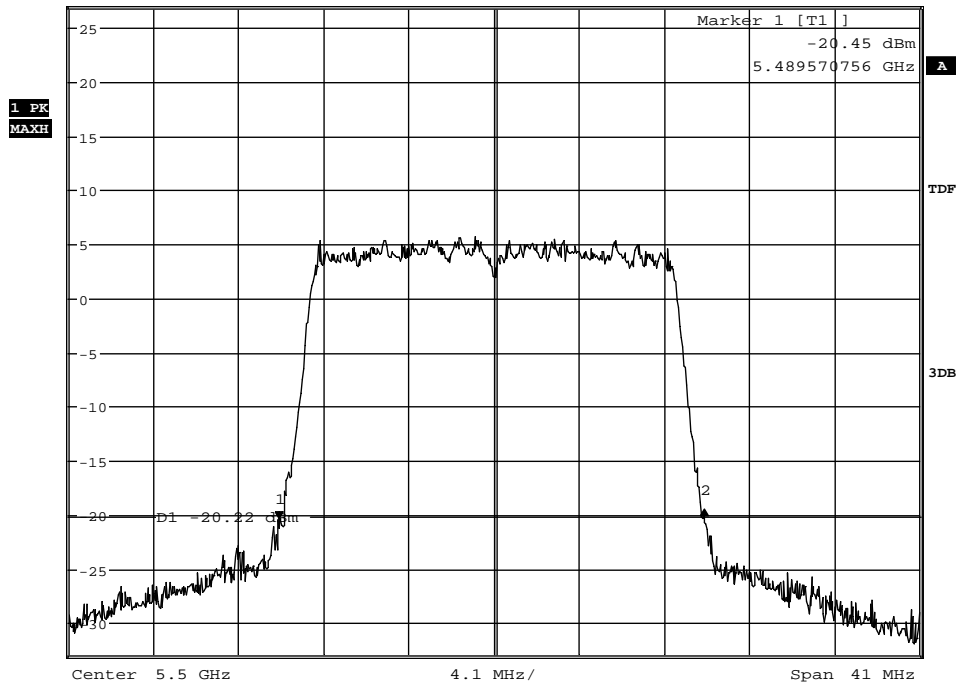
04.Feb 15 14:04
Ref 27 dBm *Att 30 dB *RBW 300 kHz Delta 2 [T1]
*VBW 5 MHz 0.15 dB
*SWT 20 ms 20.959935897 MHz



Date: 4.FEB.2015 14:04:25



04.Feb 15 14:11
Ref 27 dBm *Att 30 dB *RBW 300 kHz Delta 2 [T1]
*VBW 5 MHz 0.82 dB
*SWT 20 ms 20.500000000 MHz

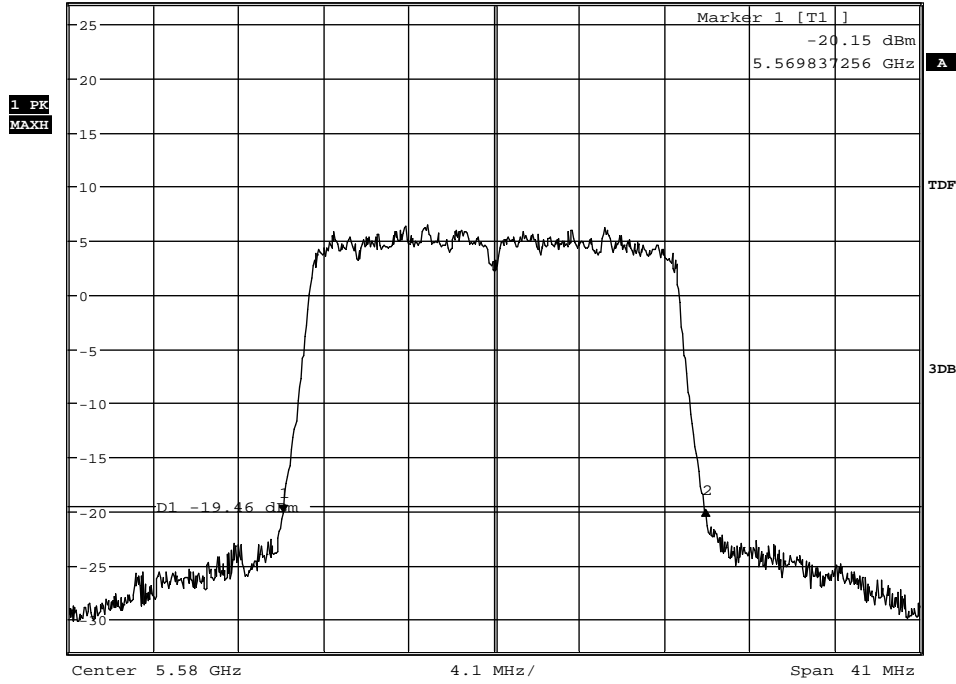


Date: 4.FEB.2015 14:11:18

n-mode, Channel 116



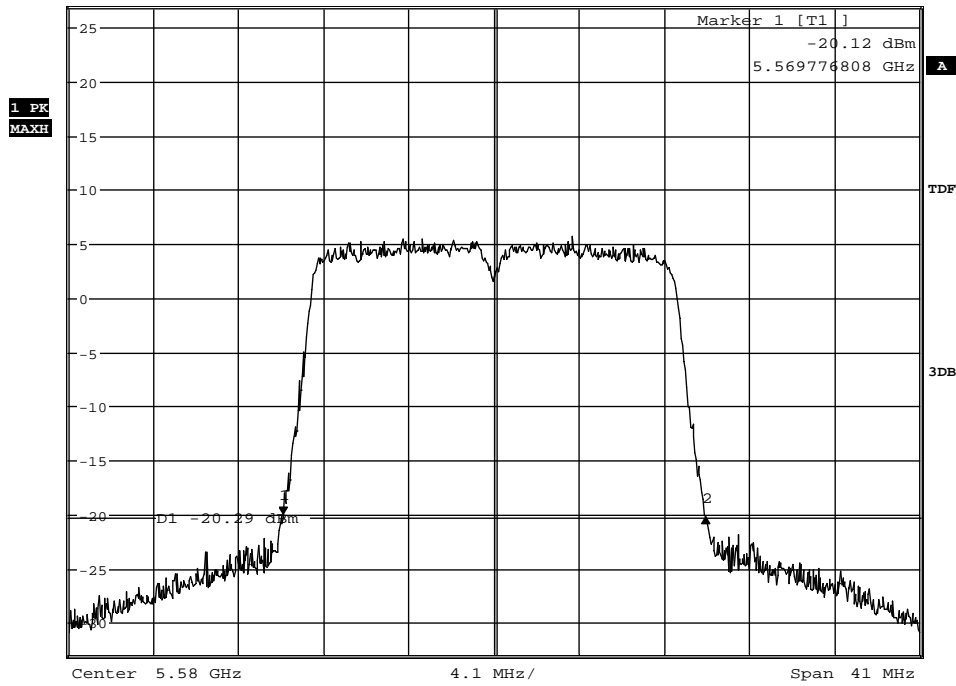
04.Feb 15 14:24 *RBW 300 kHz Delta 2 [T1]
Ref 27 dBm *Att 30 dB *VBW 5 MHz 0.14 dB
*SWT 20 ms 20.368589744 MHz



Date: 4.FEB.2015 14:24:09



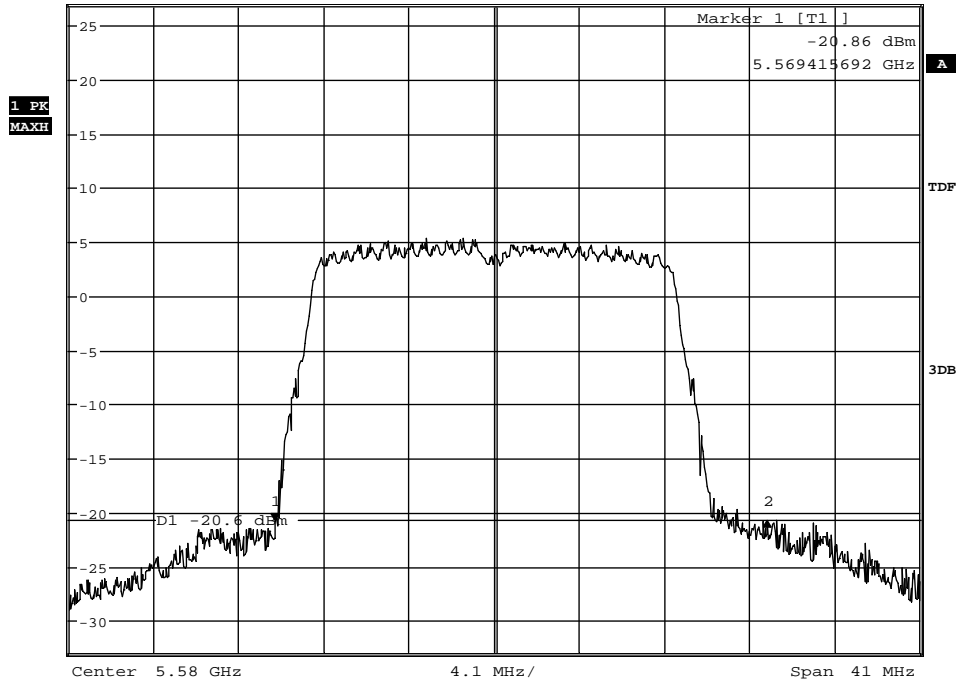
04.Feb 15 14:21 *RBW 300 kHz Delta 2 [T1]
Ref 27 dBm *Att 30 dB *VBW 5 MHz -0.22 dB
*SWT 20 ms 20.434294872 MHz



Date: 4.FEB.2015 14:21:31



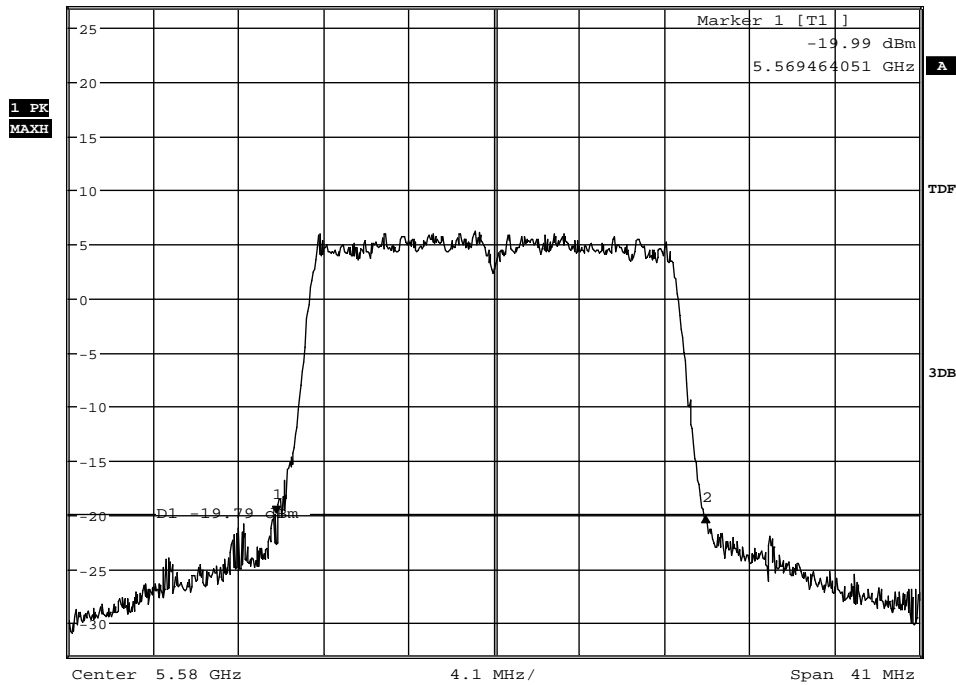
04.Feb 15 14:17
 Ref 27 dBm *Att 30 dB *RBW 300 kHz Delta 2 [T1]
 *VBW 5 MHz -0.01 dB
 *SWT 20 ms 23.719551282 MHz



Date: 4.FEB.2015 14:17:40



04.Feb 15 14:27
 Ref 27 dBm *Att 30 dB *RBW 300 kHz Delta 2 [T1]
 *VBW 5 MHz -0.24 dB
 *SWT 20 ms 20.738115385 MHz



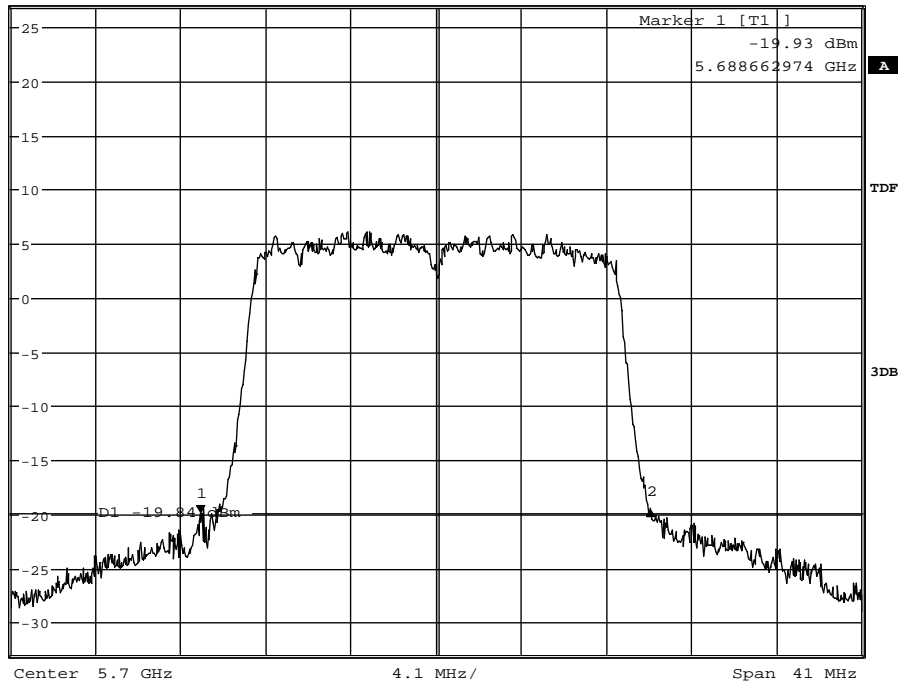
Date: 4.FEB.2015 14:27:14

n-mode, Channel 140



04.Feb 15 14:46
 Ref 27 dBm *Att 30 dB *RBW 300 kHz Delta 2 [T1]
 *VBW 5 MHz 0.26 dB
 *SWT 20 ms 21.682692308 MHz

1 PK
 MAXH

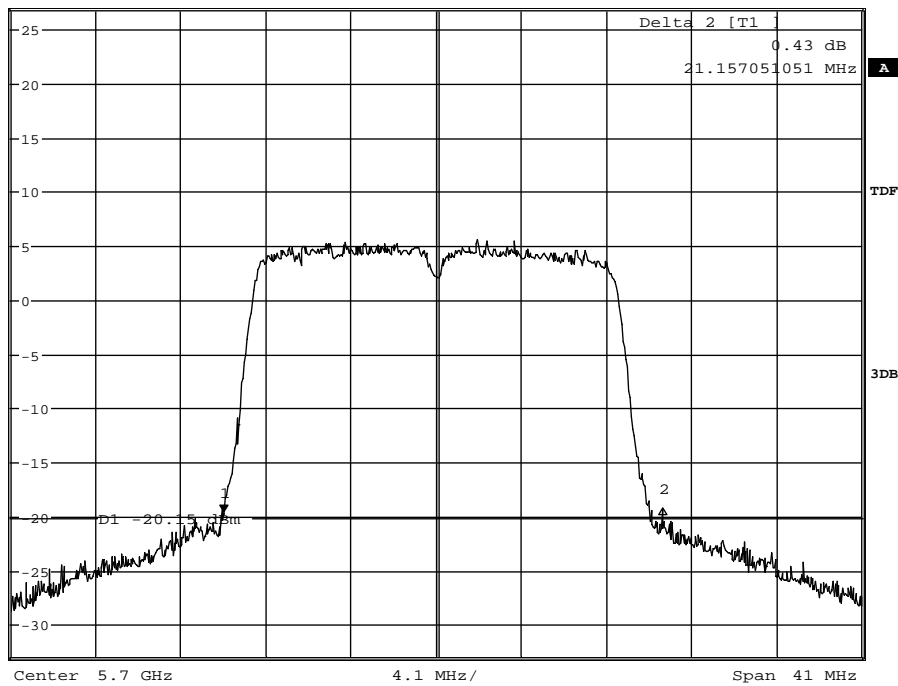


Date: 4.FEB.2015 14:46:04



04.Feb 15 14:42
 Ref 27 dBm *Att 30 dB *RBW 300 kHz Marker 1 [T1]
 *VBW 5 MHz -19.73 dBm
 *SWT 20 ms 5.689746846 GHz

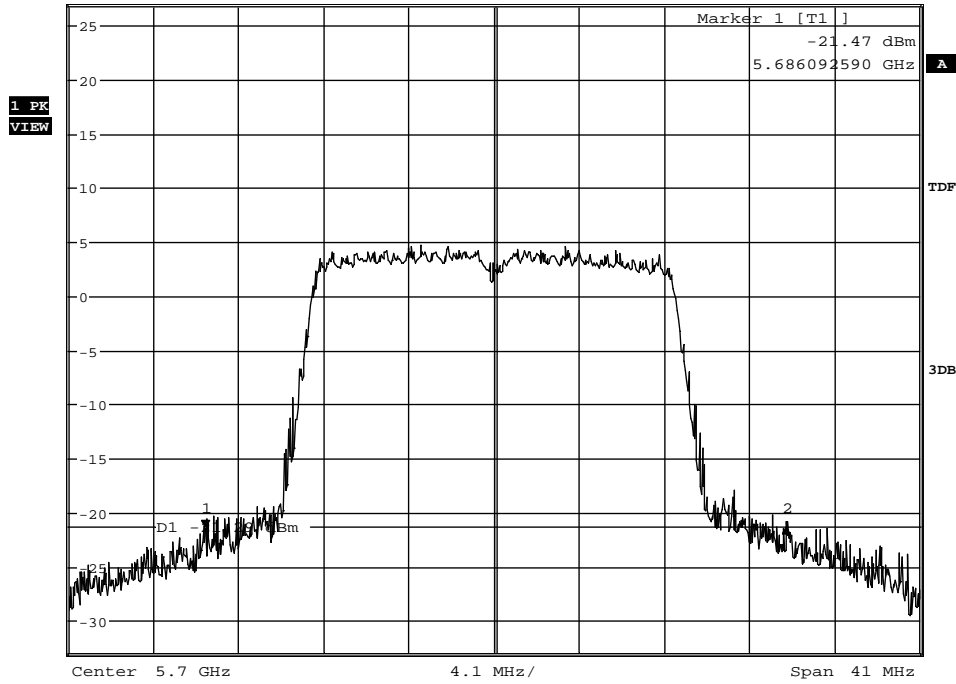
1 PK
 MAXH



Date: 4.FEB.2015 14:42:54



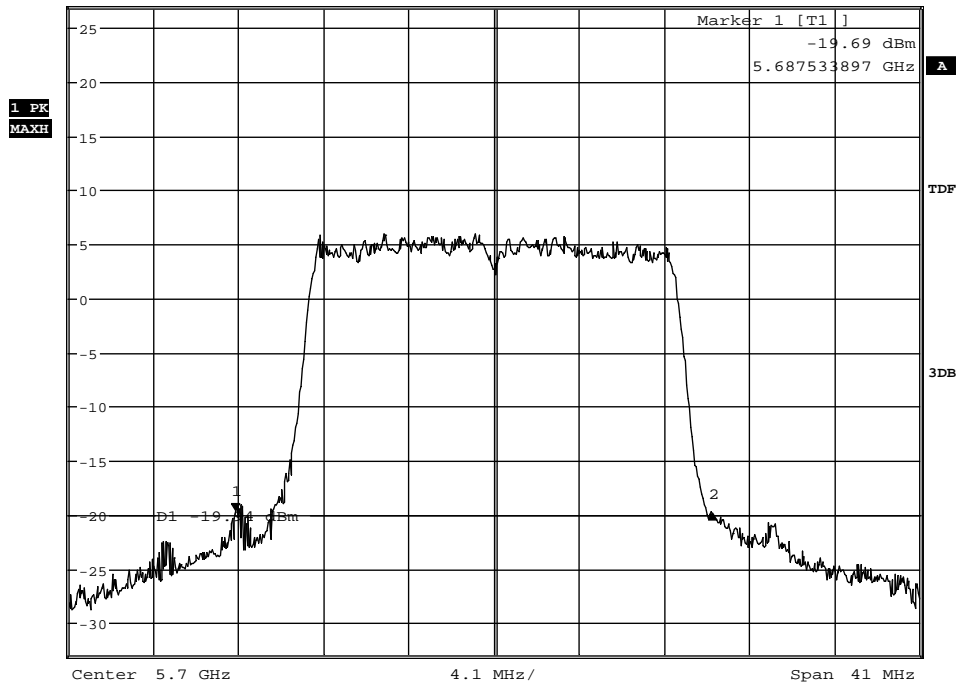
04.Feb 15 14:36 *RBW 300 kHz Delta 2 [T1]
Ref 27 dBm *Att 30 dB *VBW 5 MHz 0.05 dB
*SWT 20 ms 27.990384615 MHz



Date: 4.FEB.2015 14:36:04



04.Feb 15 14:49 *RBW 300 kHz Delta 2 [T1]
Ref 27 dBm *Att 30 dB *VBW 5 MHz -0.33 dB
*SWT 20 ms 22.996794872 MHz



Date: 4.FEB.2015 14:49:05

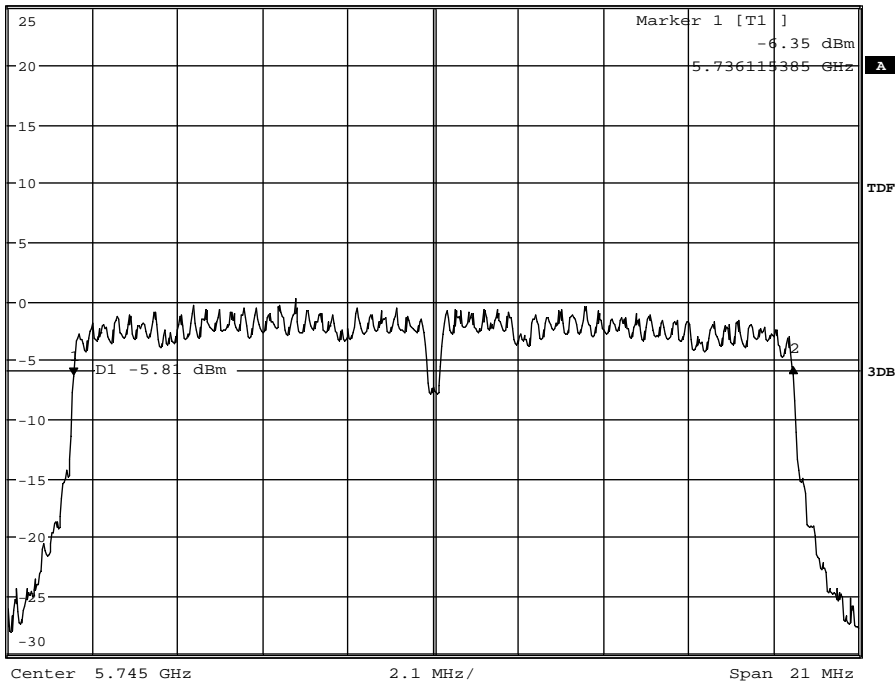
n-mode, Channel 149



*RBW 100 kHz Delta 2 [T1]
*VBW 1 MHz 0.71 dB
SWT 20 ms 17.769230769 MHz

Ref 25 dBm *Att 30 dB

1 PK
VIEW



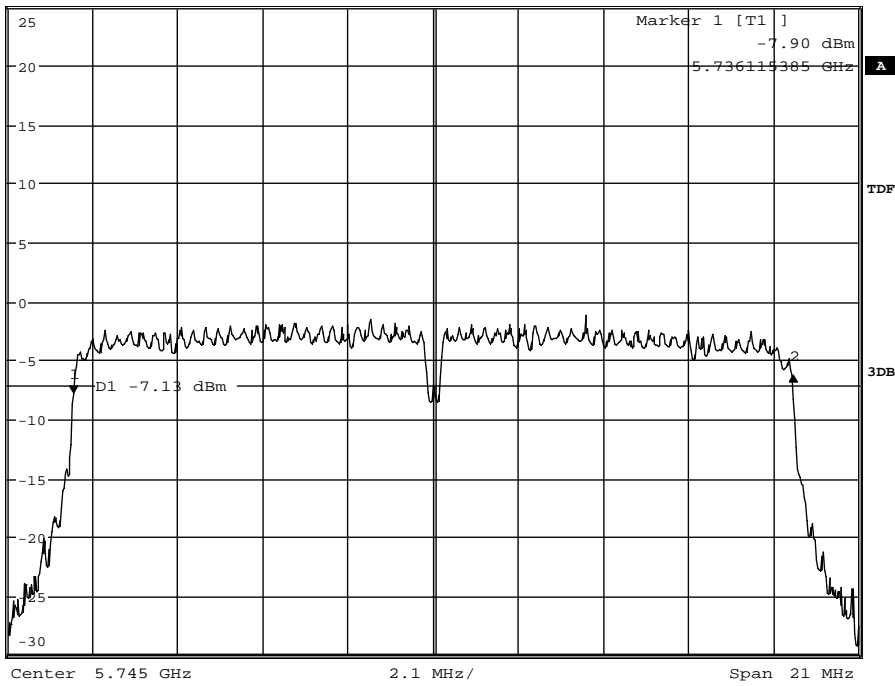
Date: 6.FEB.2015 09:09:41



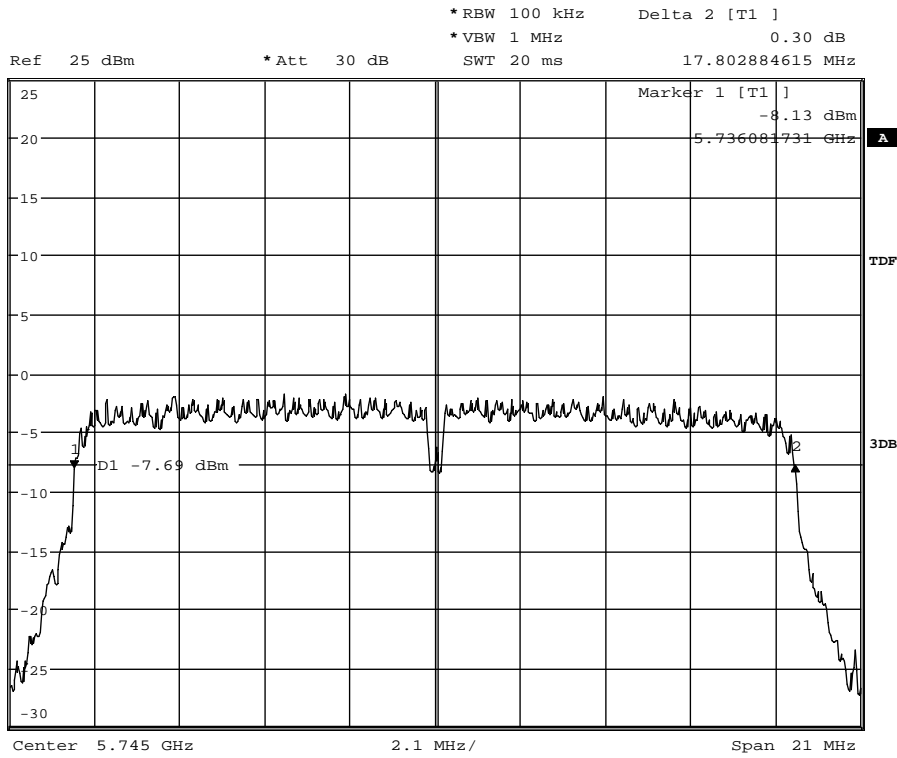
*RBW 100 kHz Delta 2 [T1]
*VBW 1 MHz 1.56 dB
SWT 20 ms 17.769230769 MHz

Ref 25 dBm *Att 30 dB

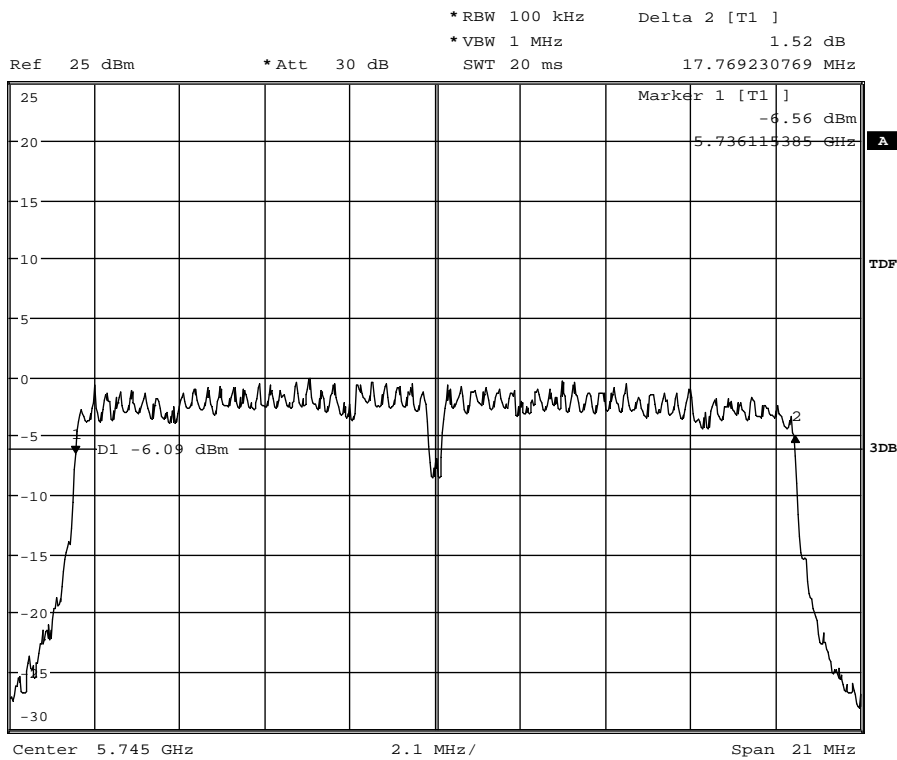
1 PK
VIEW



Date: 6.FEB.2015 09:05:30



Date: 6.FEB.2015 09:01:35



Date: 6.FEB.2015 09:13:47

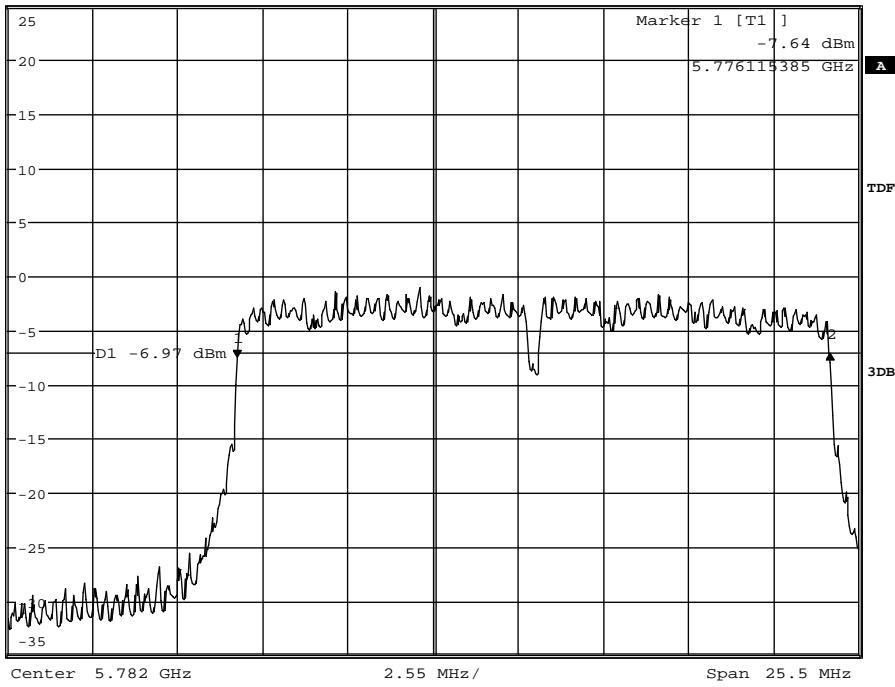
n-mode, Channel 157



*RBW 100 kHz Delta 2 [T1]
*VBW 1 MHz 0.45 dB
SWT 20 ms 17.776442308 MHz

Ref 25 dBm *Att 30 dB

1 PK
VIEW



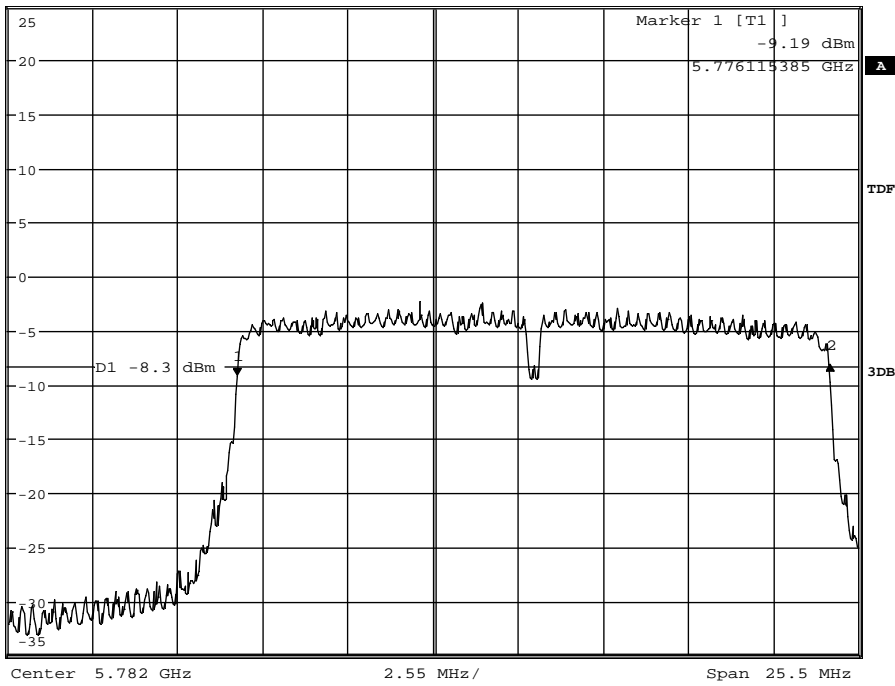
Date: 5.FEB.2015 14:06:40



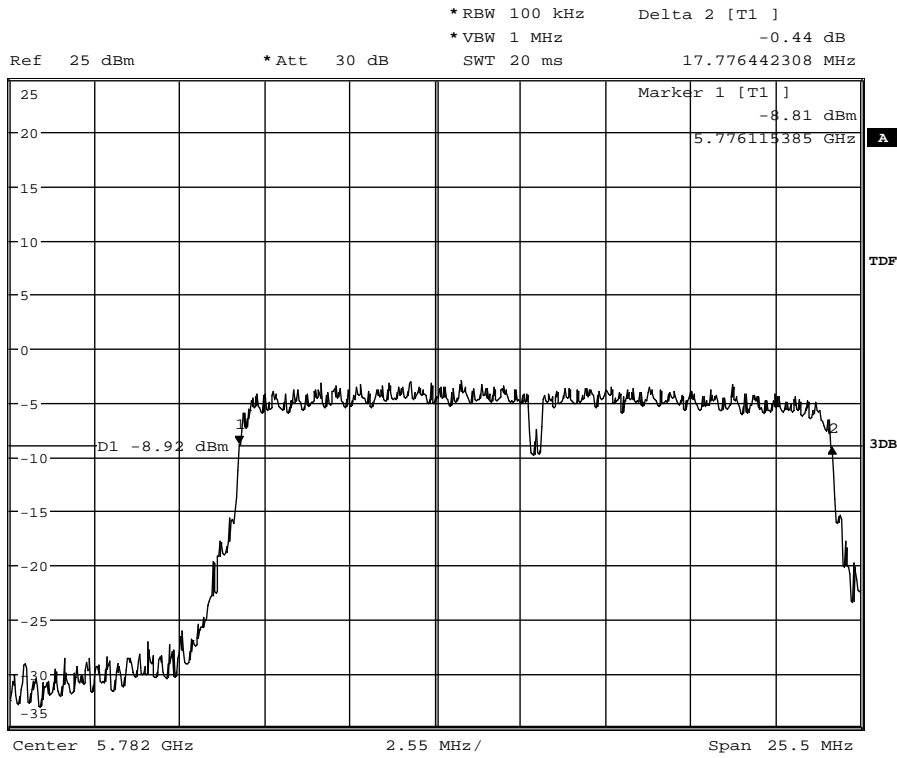
*RBW 100 kHz Delta 2 [T1]
*VBW 1 MHz 0.96 dB
SWT 20 ms 17.776442308 MHz

Ref 25 dBm *Att 30 dB

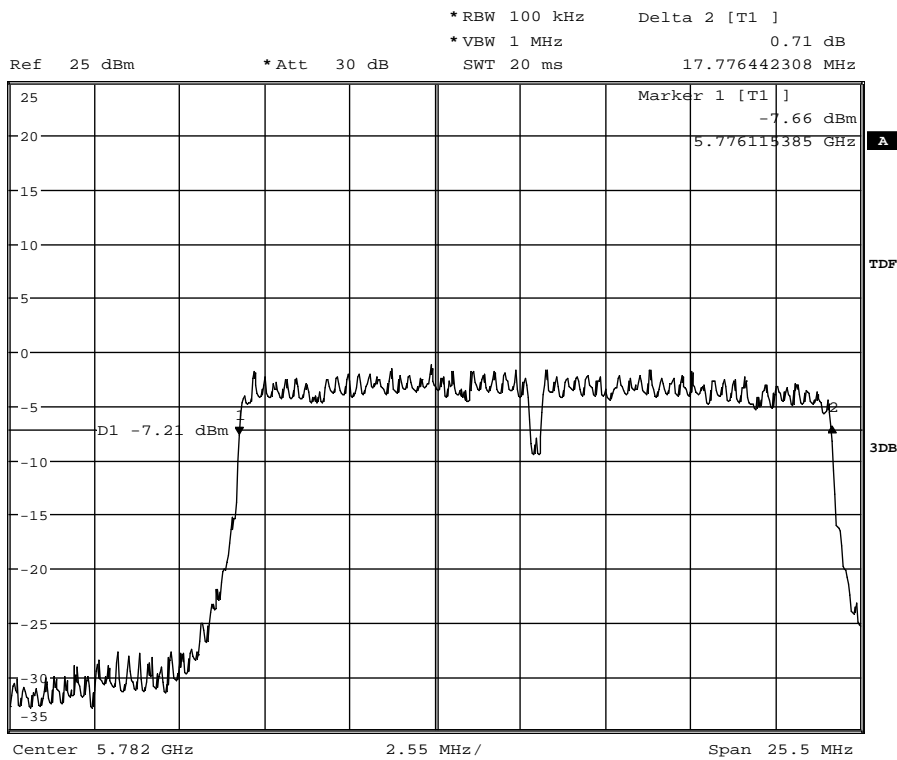
1 PK
VIEW



Date: 5.FEB.2015 14:02:03



Date: 5.FEB.2015 13:58:15



Date: 5.FEB.2015 14:10:03

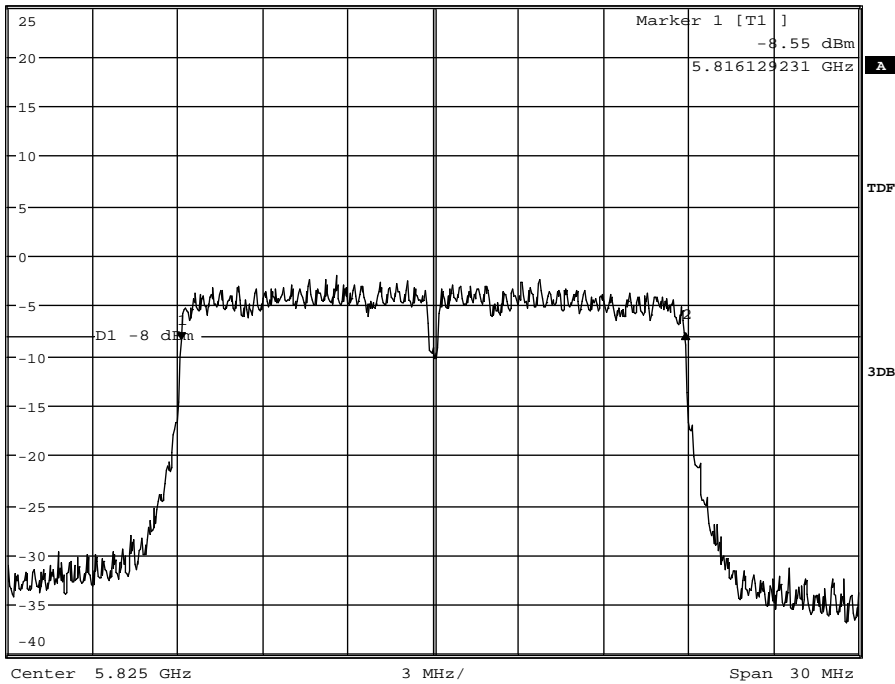
n-mode, Channel 165



*RBW 100 kHz Delta 2 [T1]
 *VBW 1 MHz 0.67 dB
 SWT 20 ms

Ref 25 dBm *Att 30 dB 17.740384615 MHz

1 PK
VIEW



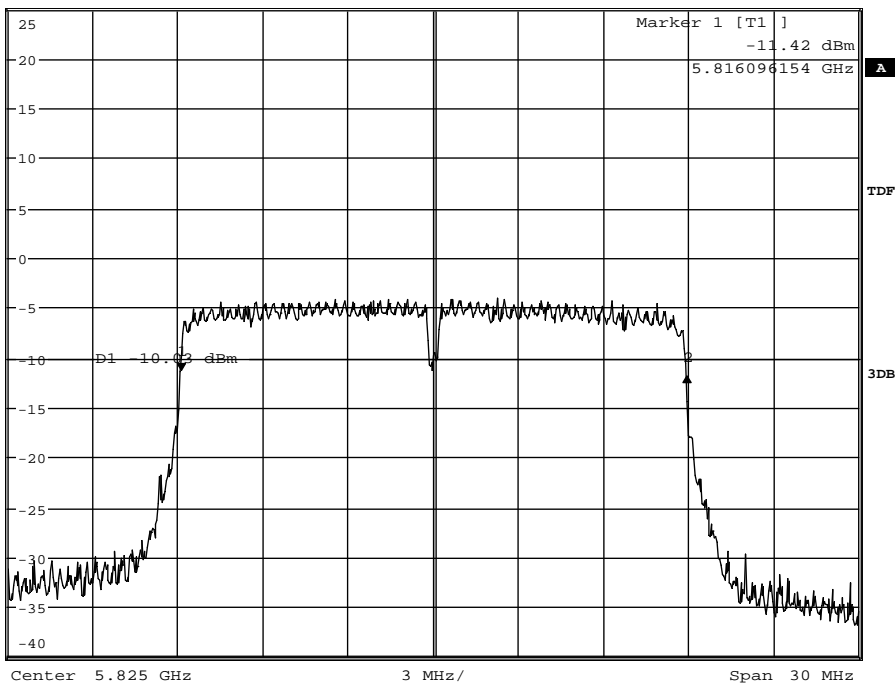
Date: 5.FEB.2015 13:17:57



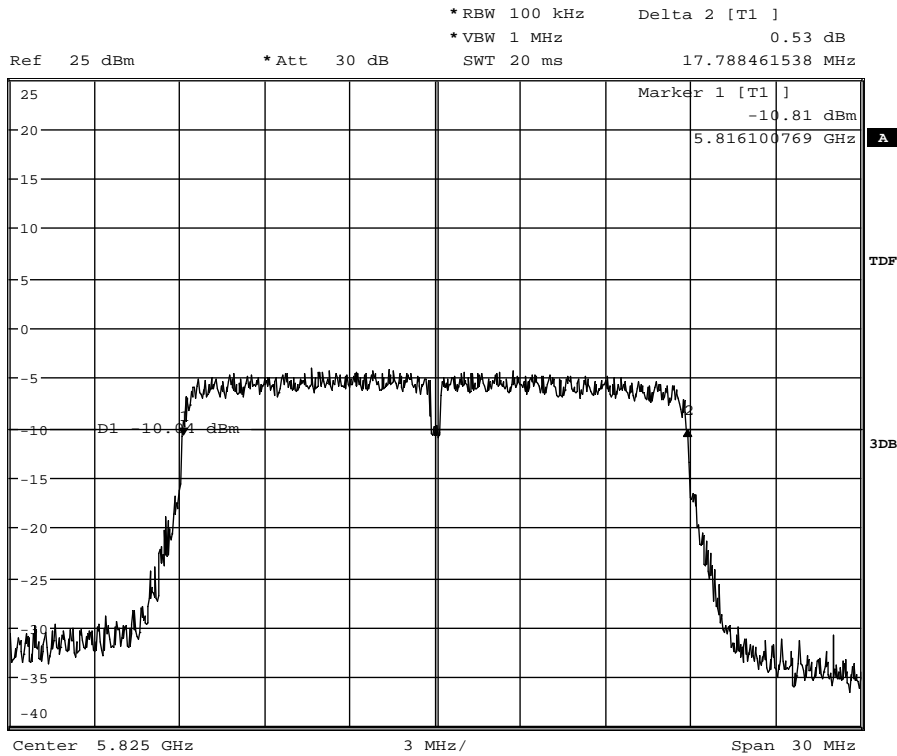
*RBW 100 kHz Delta 2 [T1]
 *VBW 1 MHz -0.50 dB
 SWT 20 ms

Ref 25 dBm *Att 30 dB 17.836538462 MHz

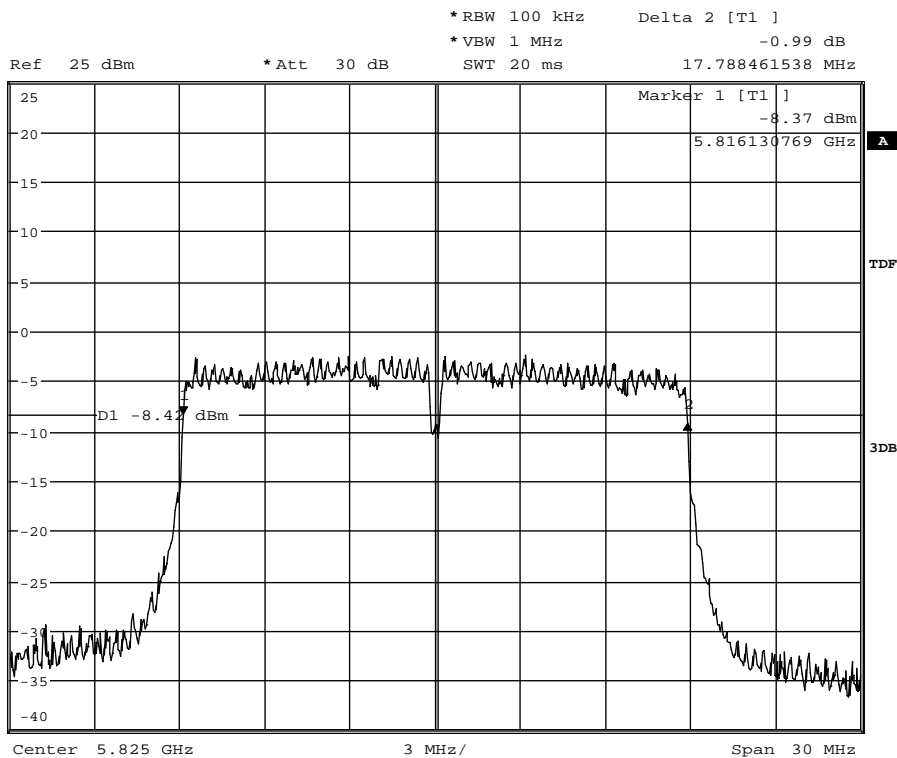
1 PK
VIEW



Date: 5.FEB.2015 13:14:26



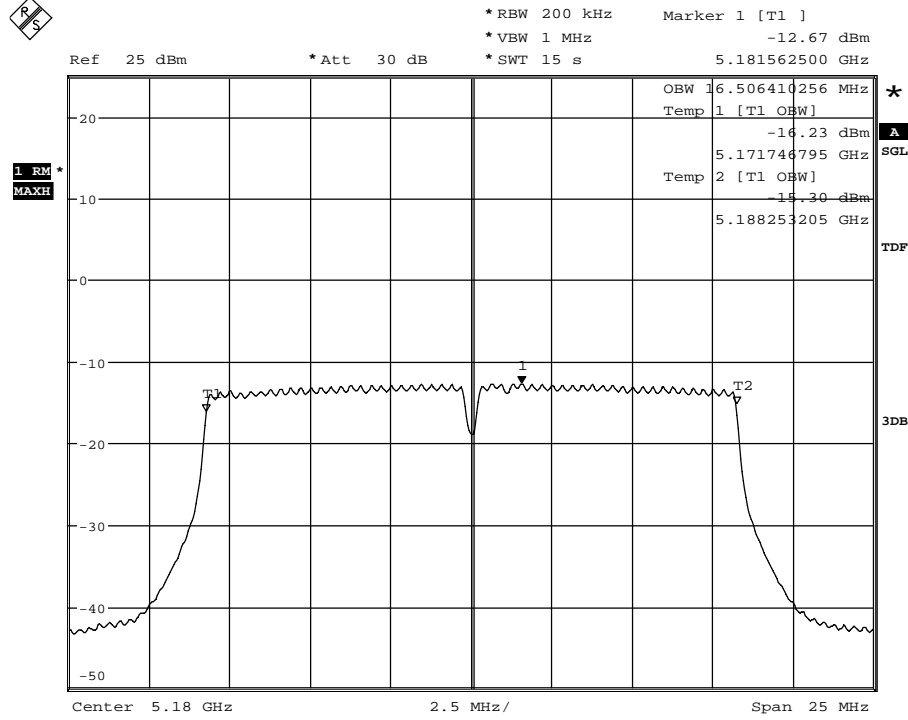
Date: 5.FEB.2015 13:09:54



Date: 5.FEB.2015 13:21:18

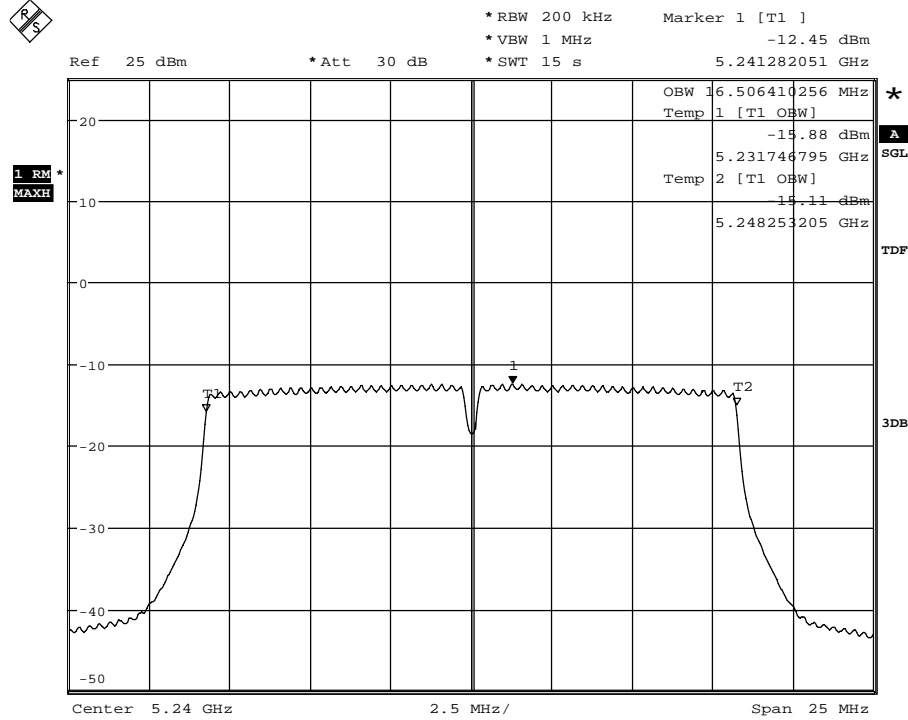
1.4.3. 99% Occupied Bandwidth

a-mode, Channel 36



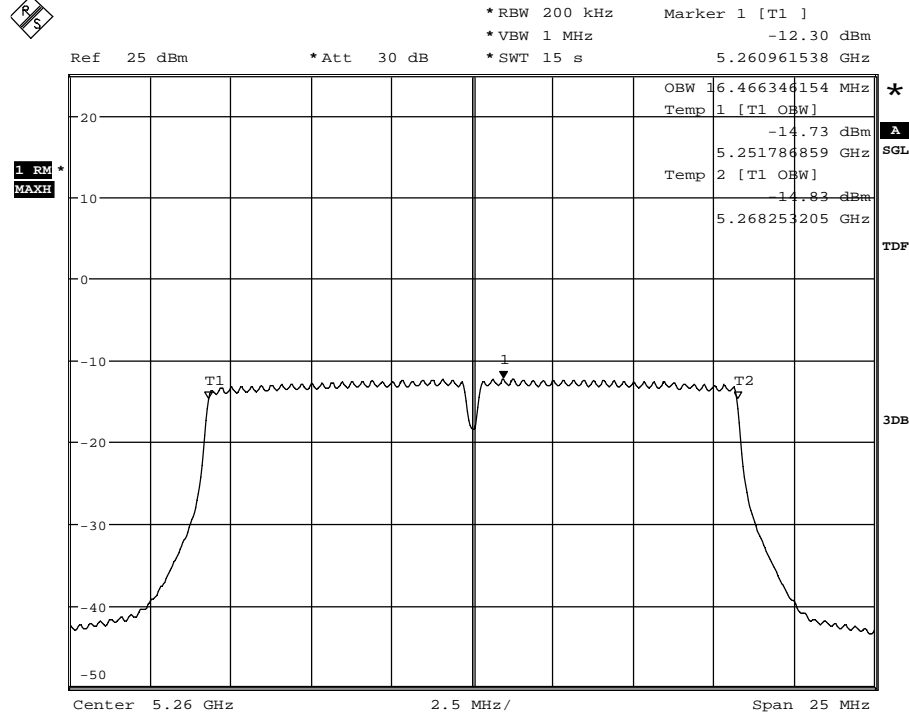
Date: 6.FEB.2015 11:16:40

a-mode, Channel 48



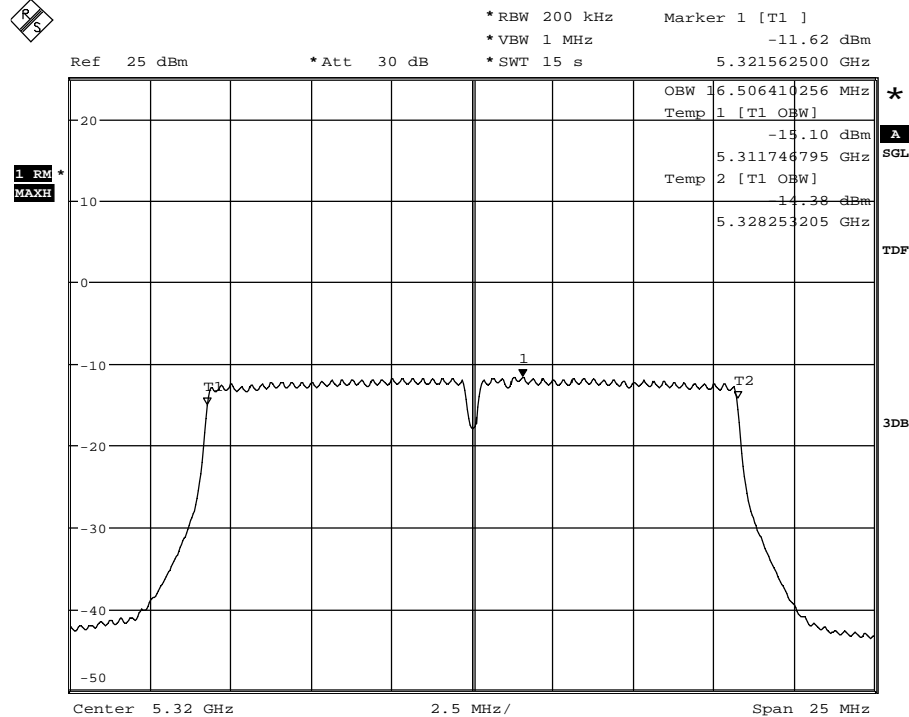
Date: 6.FEB.2015 11:18:58

a-mode, Channel 52



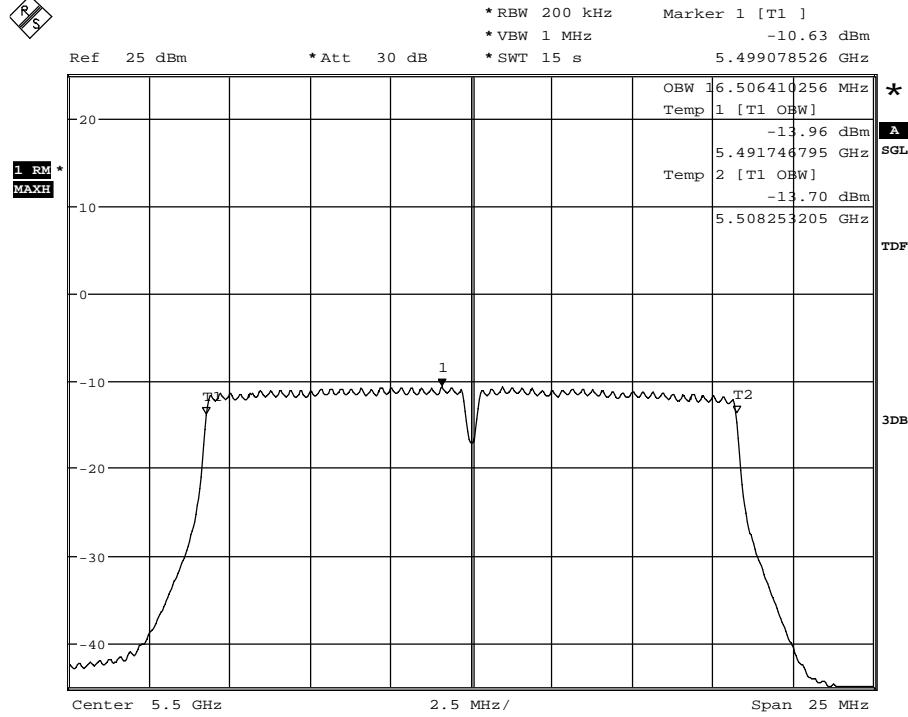
Date: 6.FEB.2015 11:26:19

a-mode, Channel 64



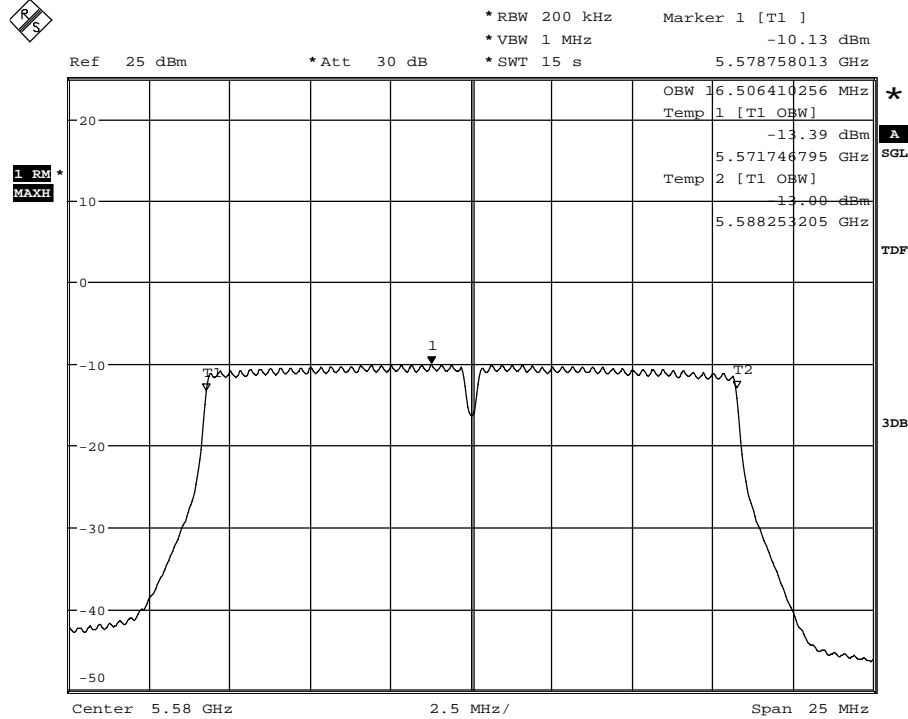
Date: 6.FEB.2015 11:30:47

a-mode, Channel 100



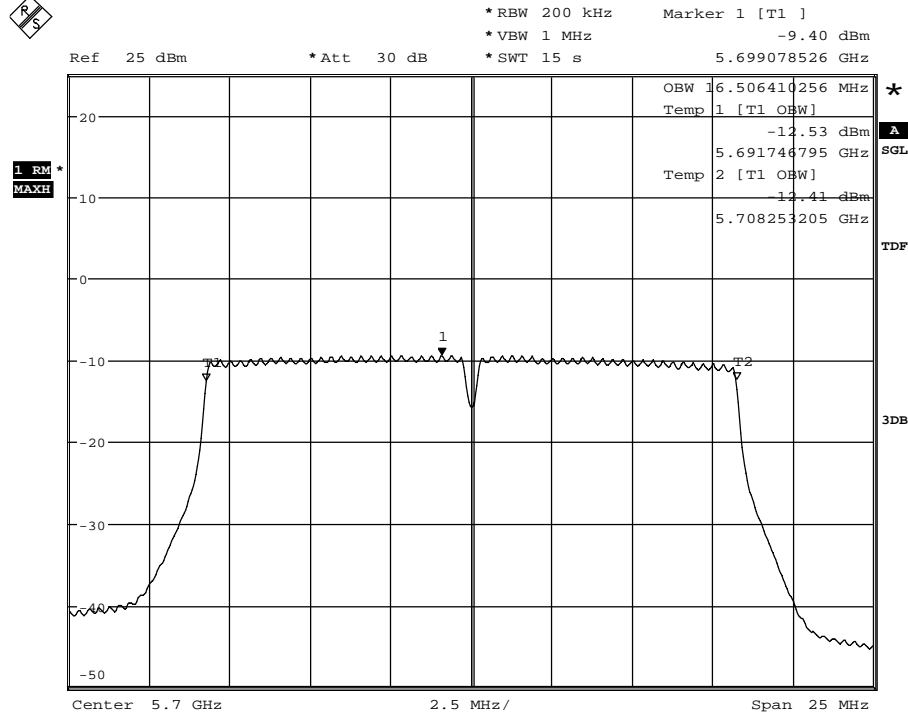
Date: 6.FEB.2015 10:59:02

a-mode, Channel 116



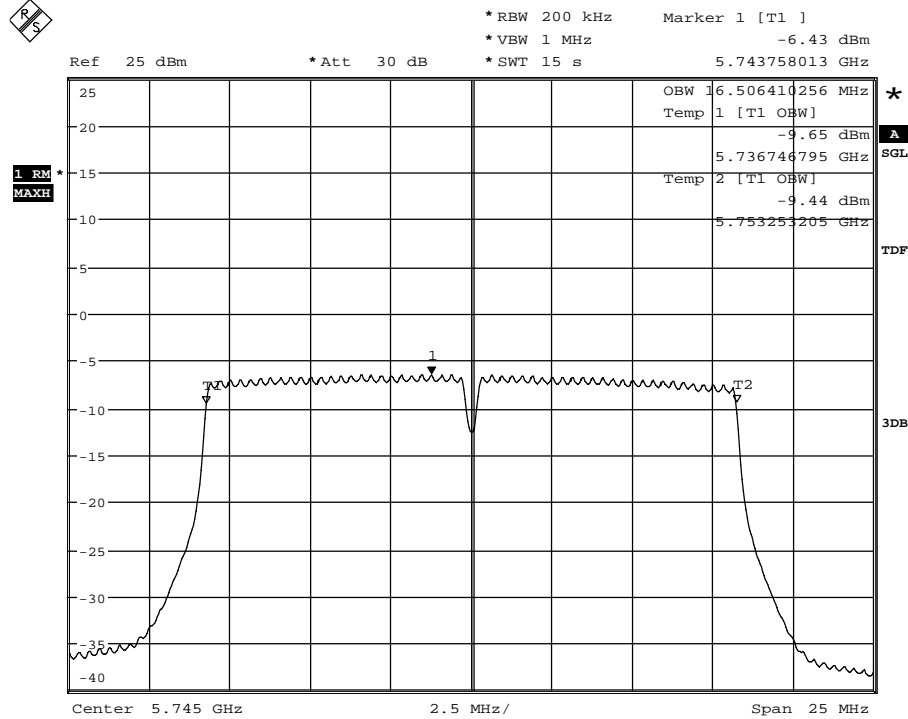
Date: 6.FEB.2015 11:06:31

a-mode, Channel 140



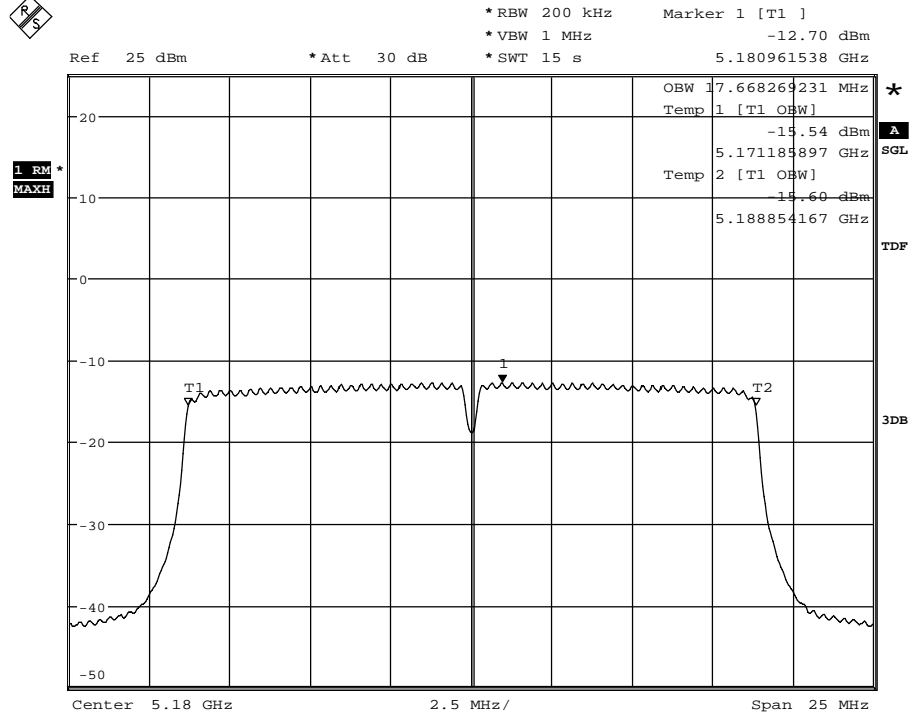
Date: 6.FEB.2015 11:09:37

a-mode, Channel 149



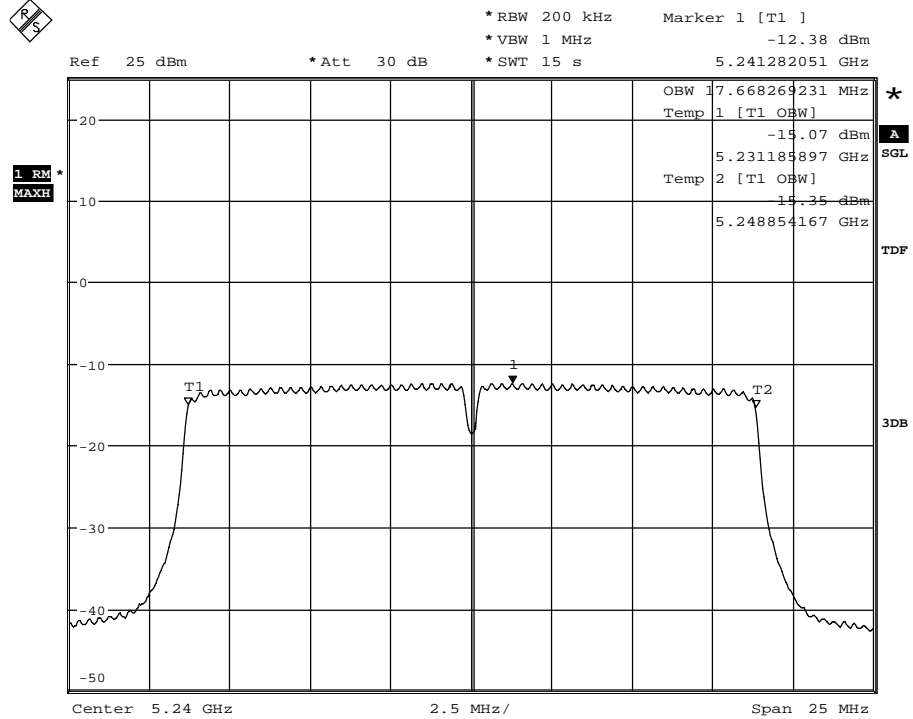
Date: 6.FEB.2015 09:19:58

n-mode, Channel 36



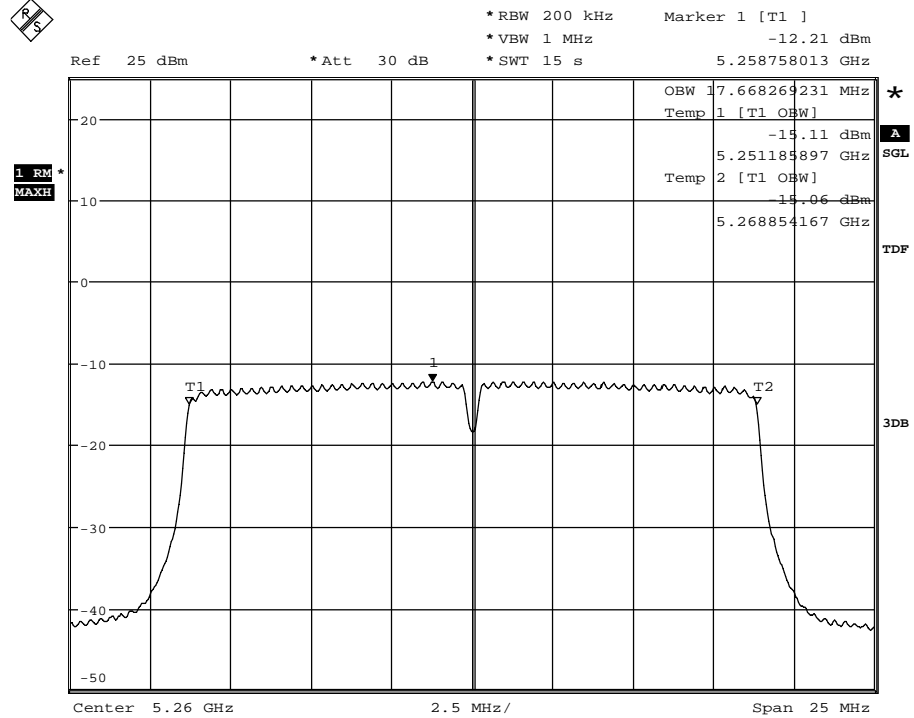
Date: 6.FEB.2015 11:14:55

n-mode, Channel 48



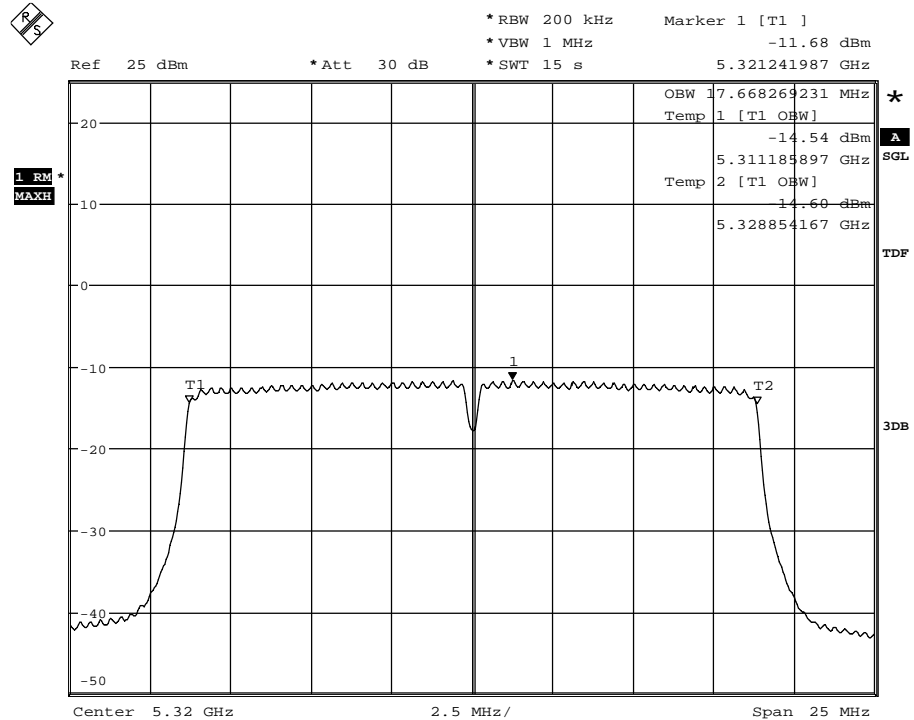
Date: 6.FEB.2015 11:22:36

n-mode, Channel 52



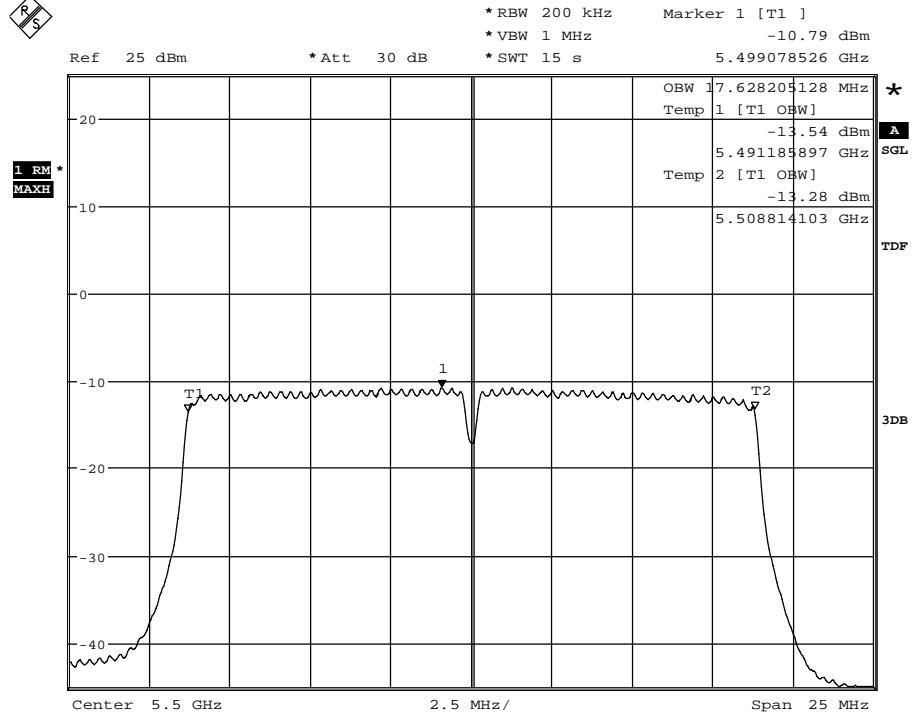
Date: 6.FEB.2015 11:24:43

n-mode, Channel 64



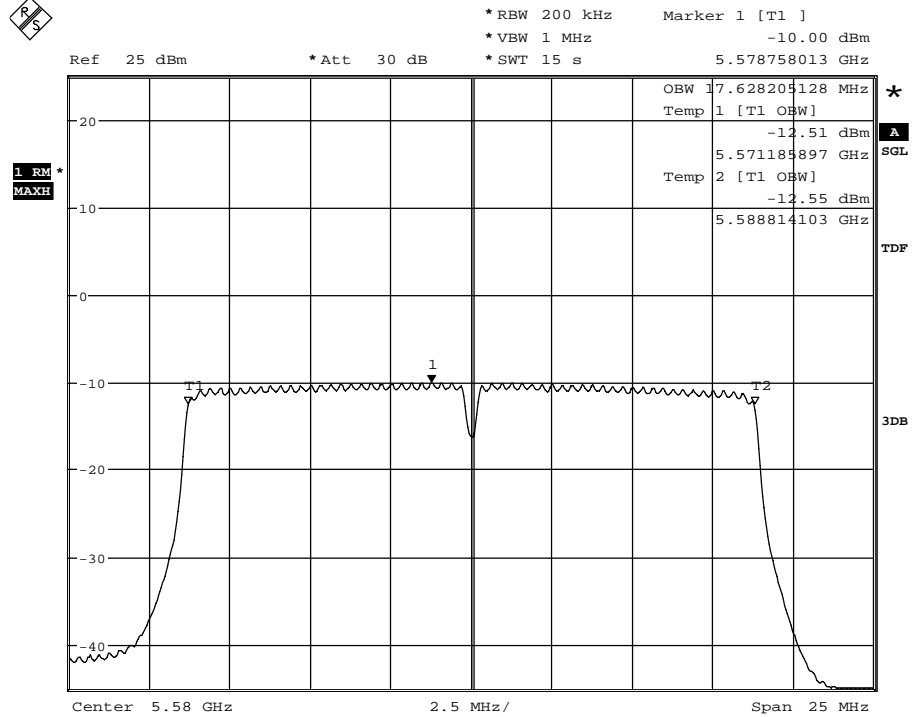
Date: 6.FEB.2015 11:59:17

n-mode, Channel 100



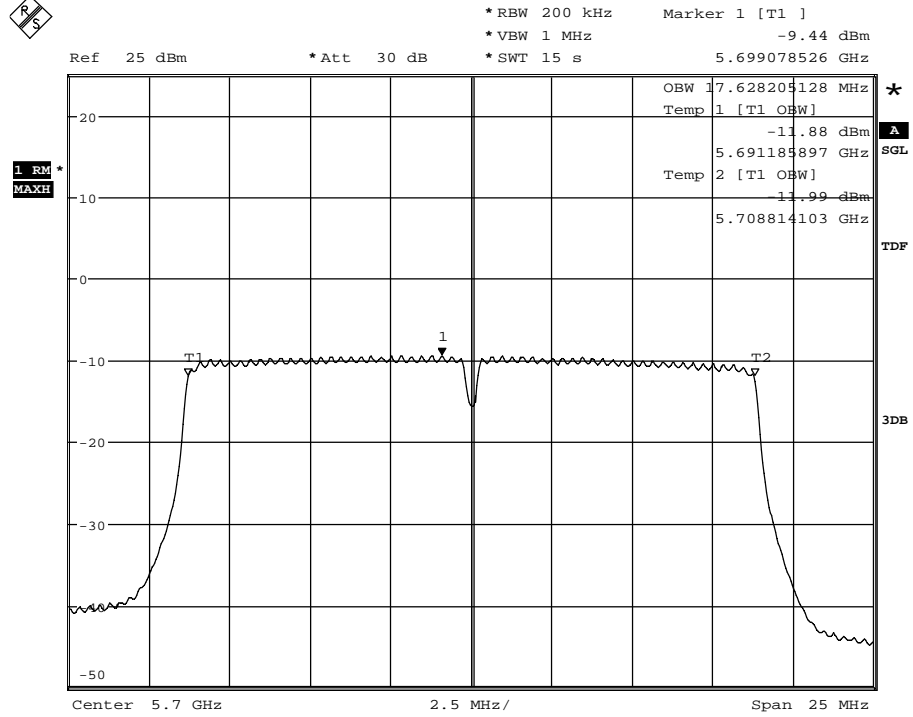
Date: 6.FEB.2015 11:01:11

n-mode, Channel 116



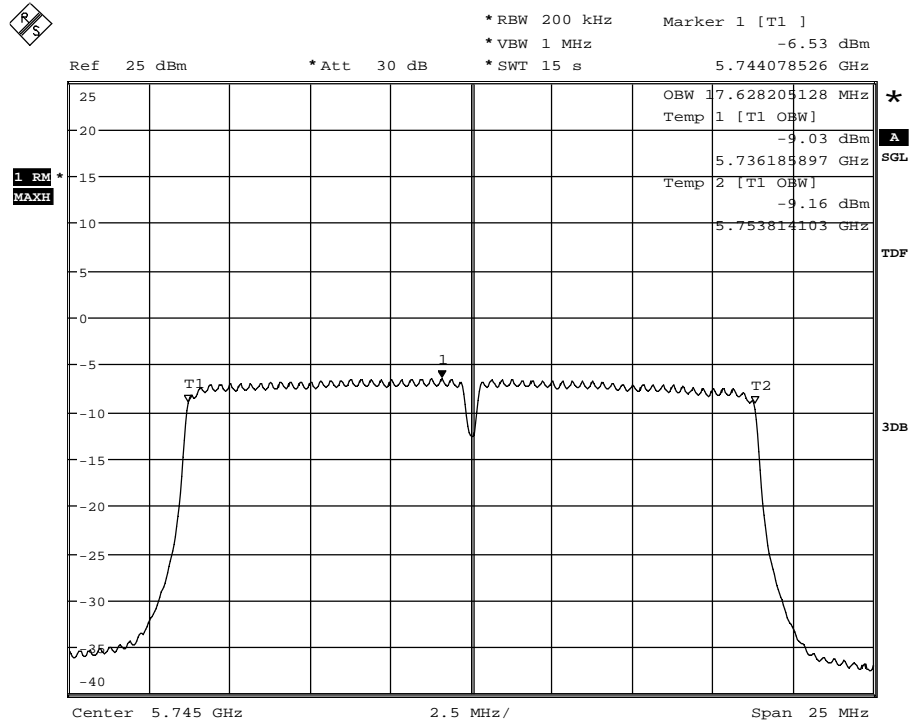
Date: 6.FEB.2015 11:04:13

n-mode, Channel 140



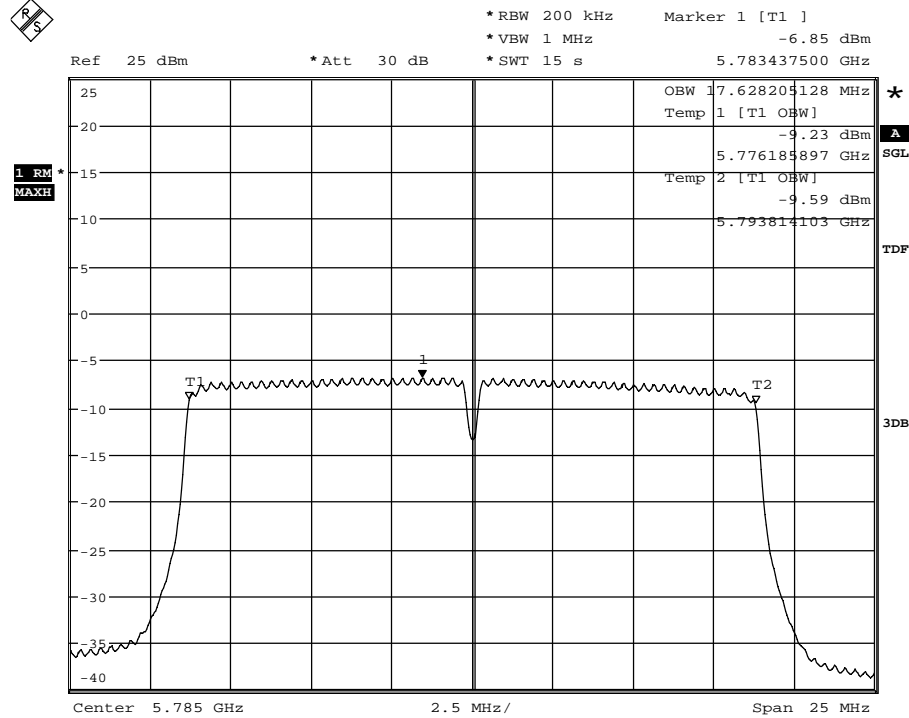
Date: 6.FEB.2015 11:11:04

n-mode, Channel 149



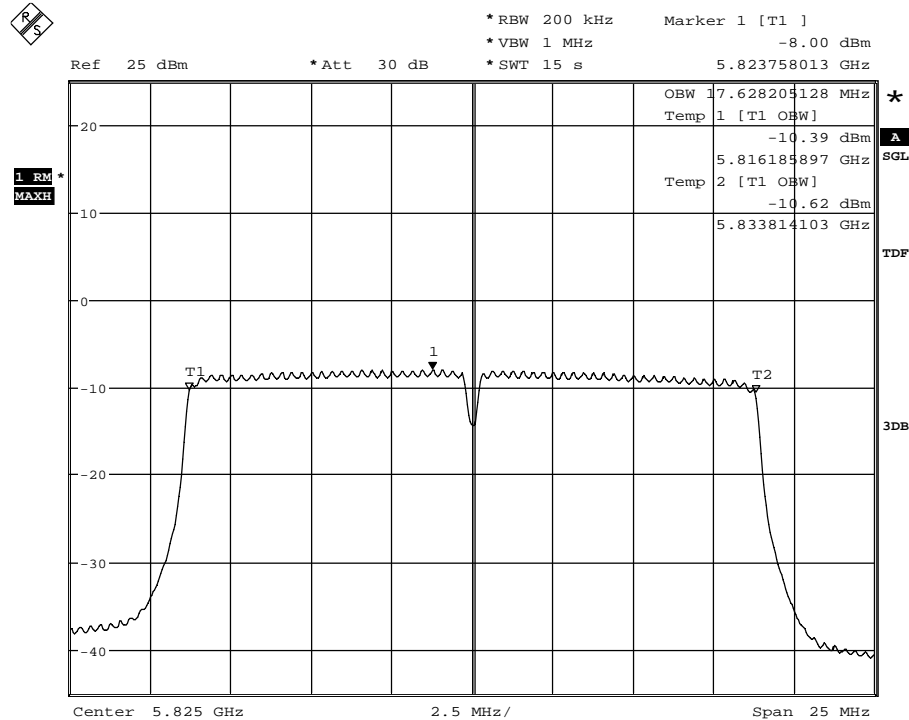
Date: 6.FEB.2015 09:18:22

n-mode, Channel 157



Date: 6.FEB.2015 10:47:51

n-mode, Channel 165



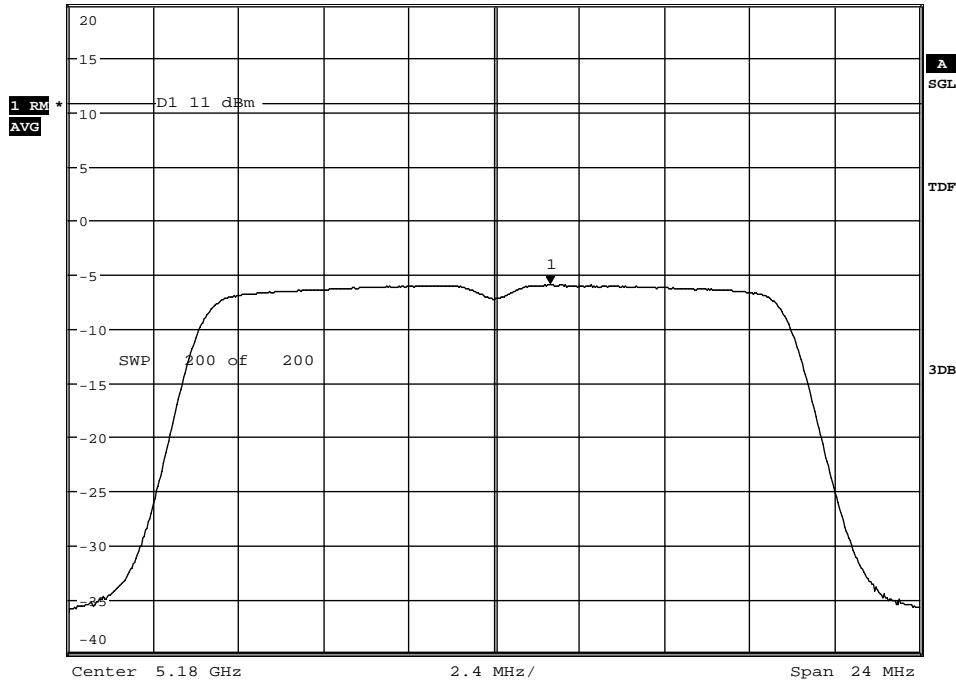
Date: 6.FEB.2015 10:52:14

1.4.4. Power Spectral Density

a-mode, Channel 36



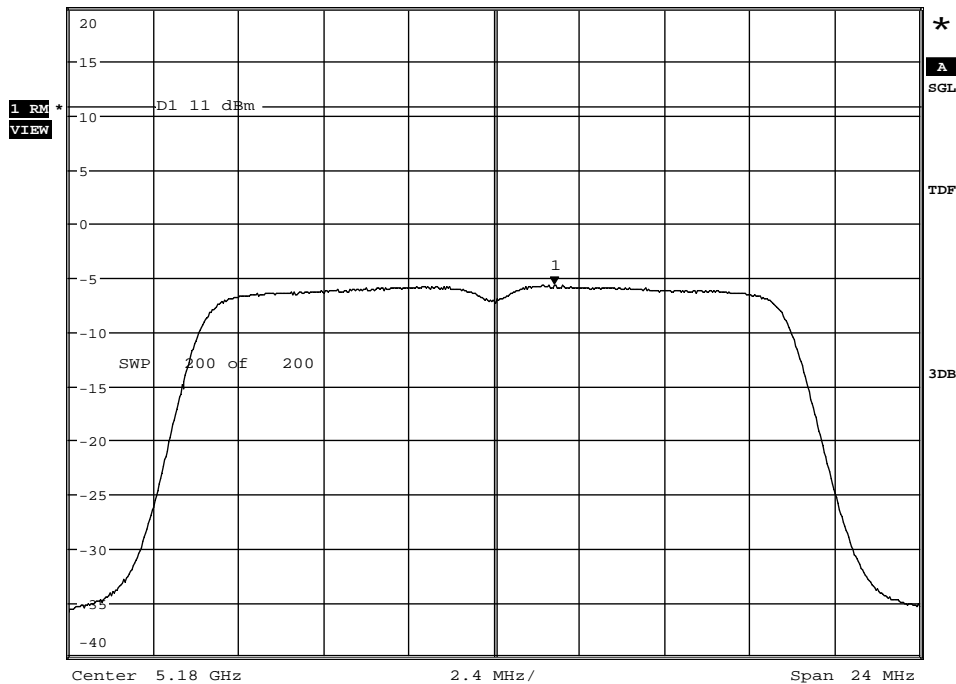
Ref 20 dBm *Att 35 dB *RBW 1 MHz Marker 1 [T1] -5.91 dBm
*VBW 3 MHz SWT 20 ms 5.181584000 GHz



Date: 5.FEB.2015 10:41:23

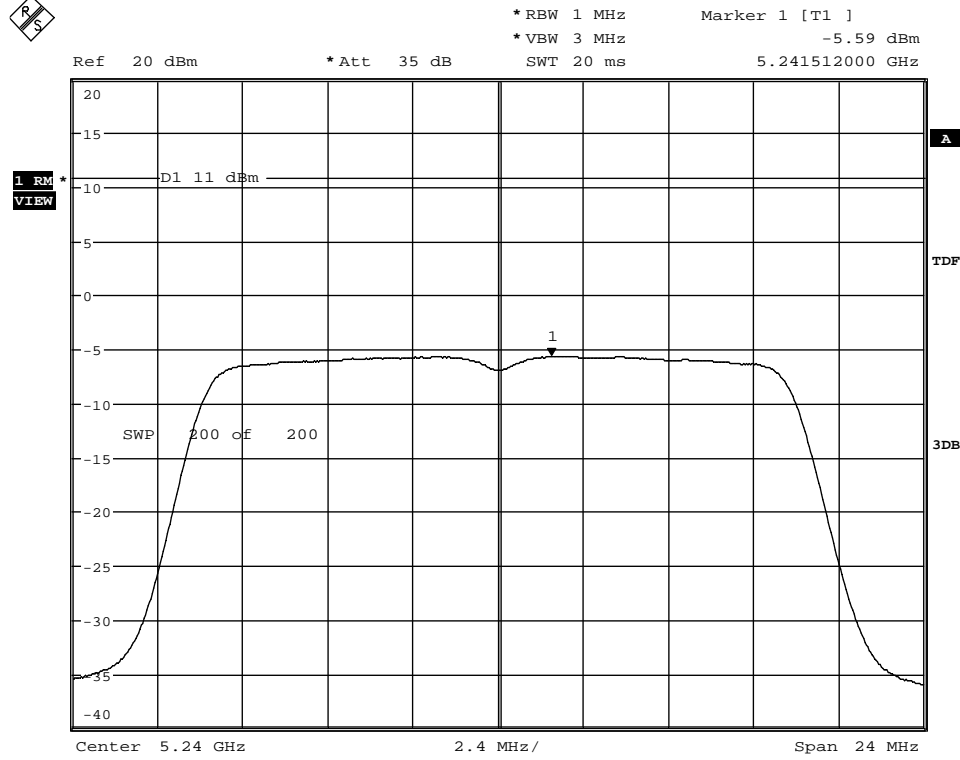


Ref 20 dBm *Att 35 dB *RBW 1 MHz Marker 1 [T1] -5.69 dBm
*VBW 3 MHz SWT 20 ms 5.181692000 GHz

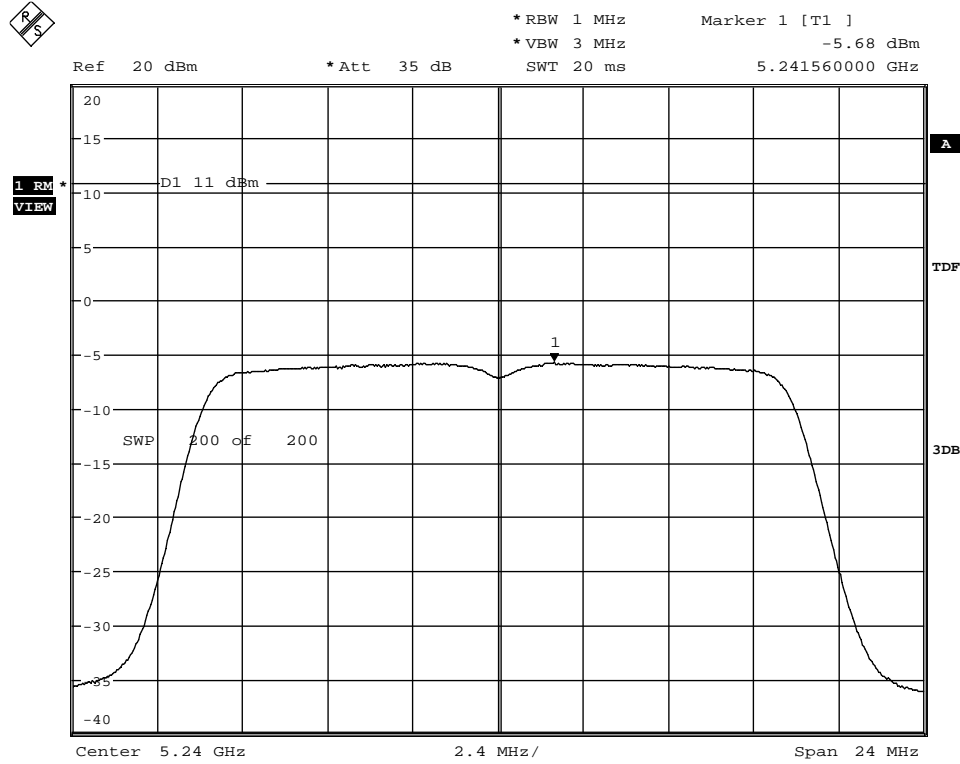


Date: 5.FEB.2015 10:38:28

a-mode, Channel 48

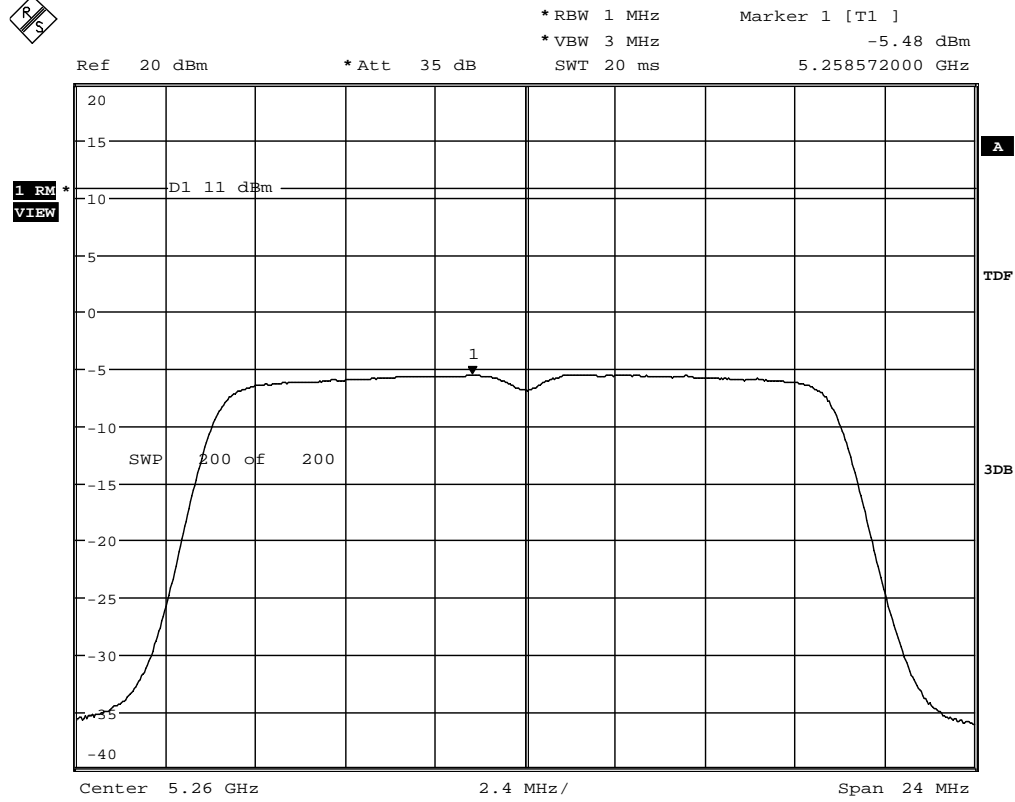


Date: 5.FEB.2015 10:45:55

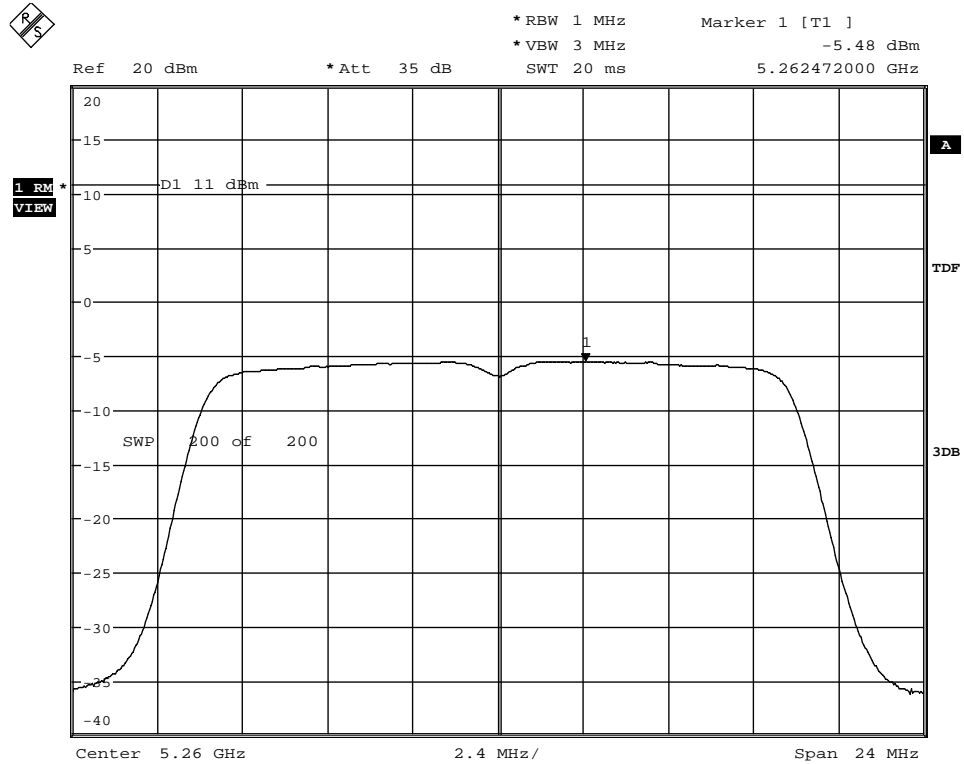


Date: 5.FEB.2015 10:51:57

a-mode, Channel 52

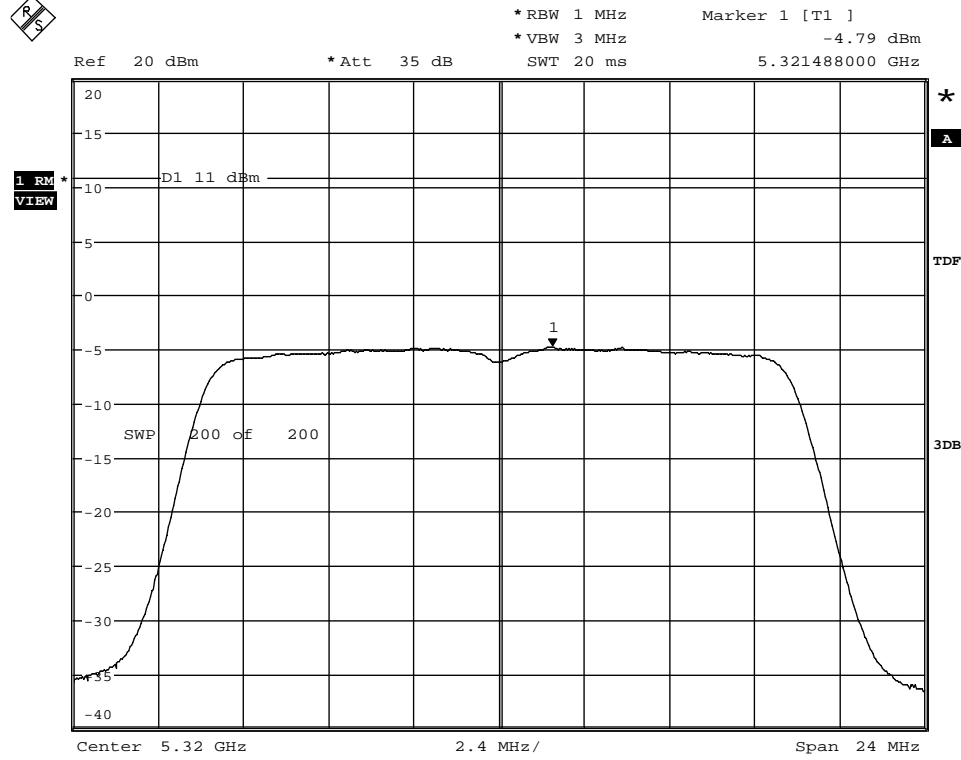


Date: 5.FEB.2015 10:54:10

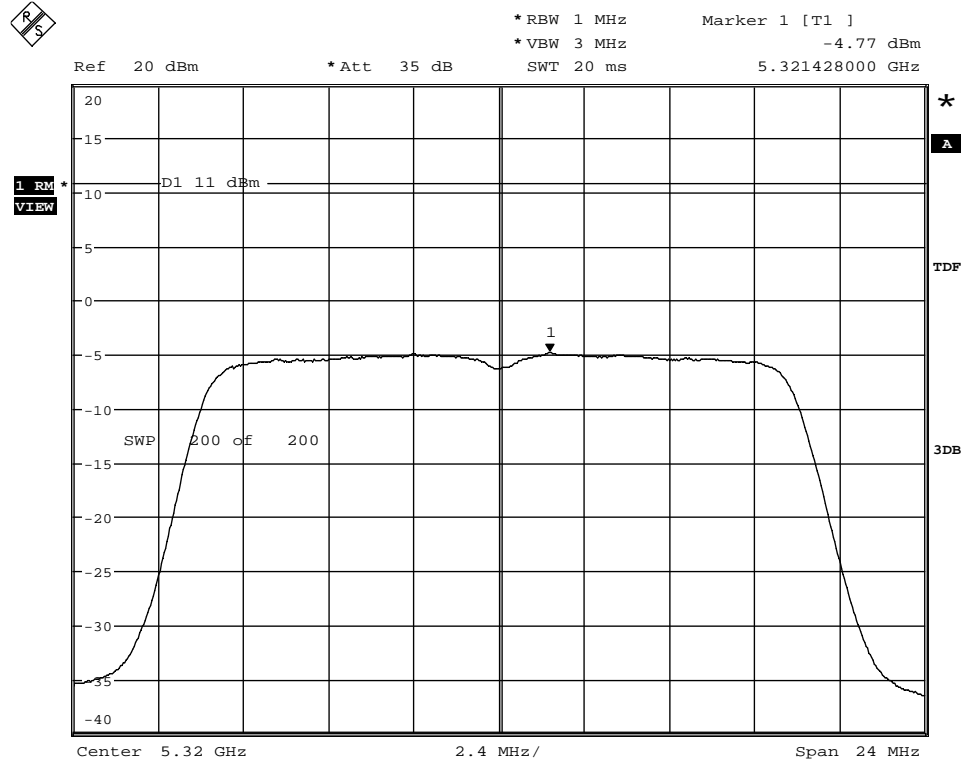


Date: 5.FEB.2015 10:58:40

a-mode, Channel 64

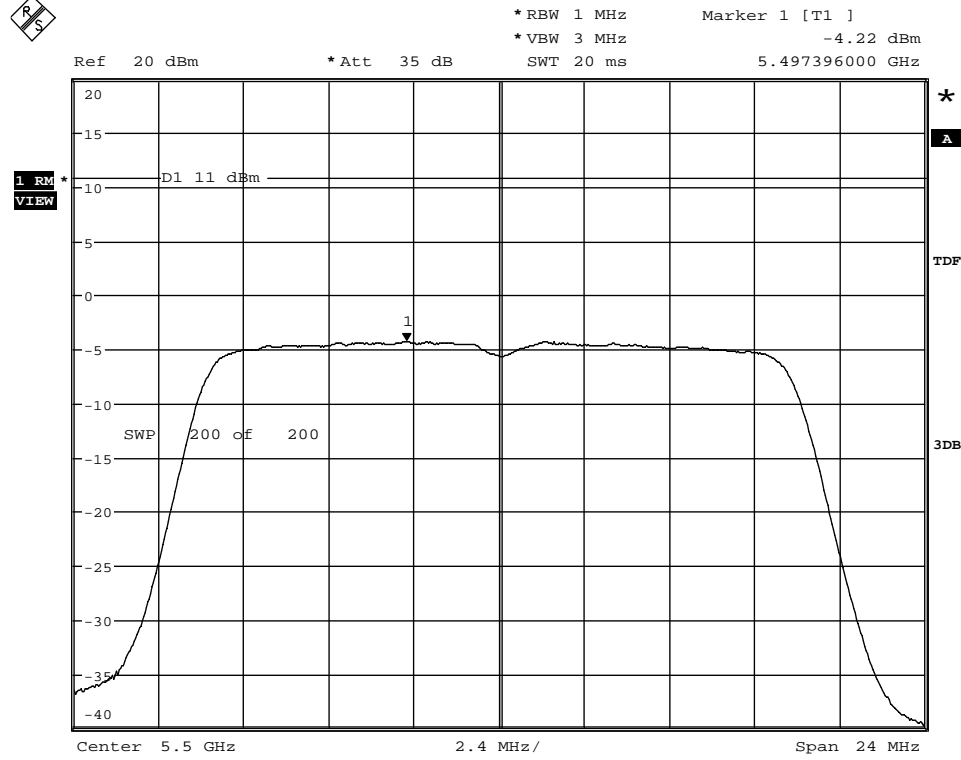


Date: 5.FEB.2015 11:01:20

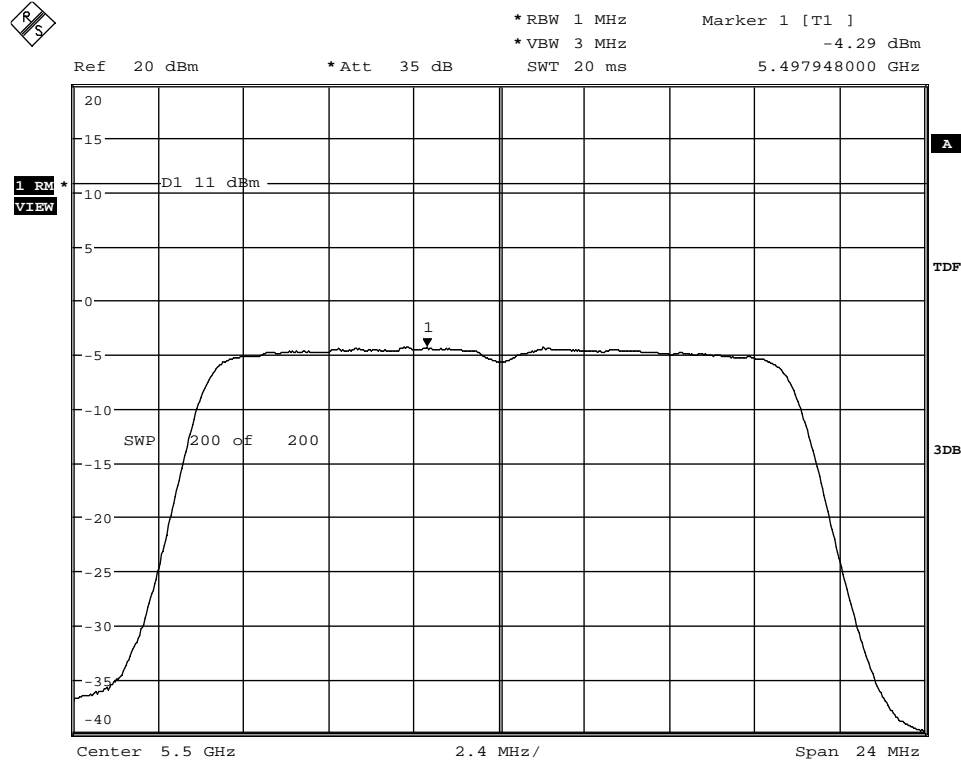


Date: 5.FEB.2015 11:04:45

a-mode, Channel 100

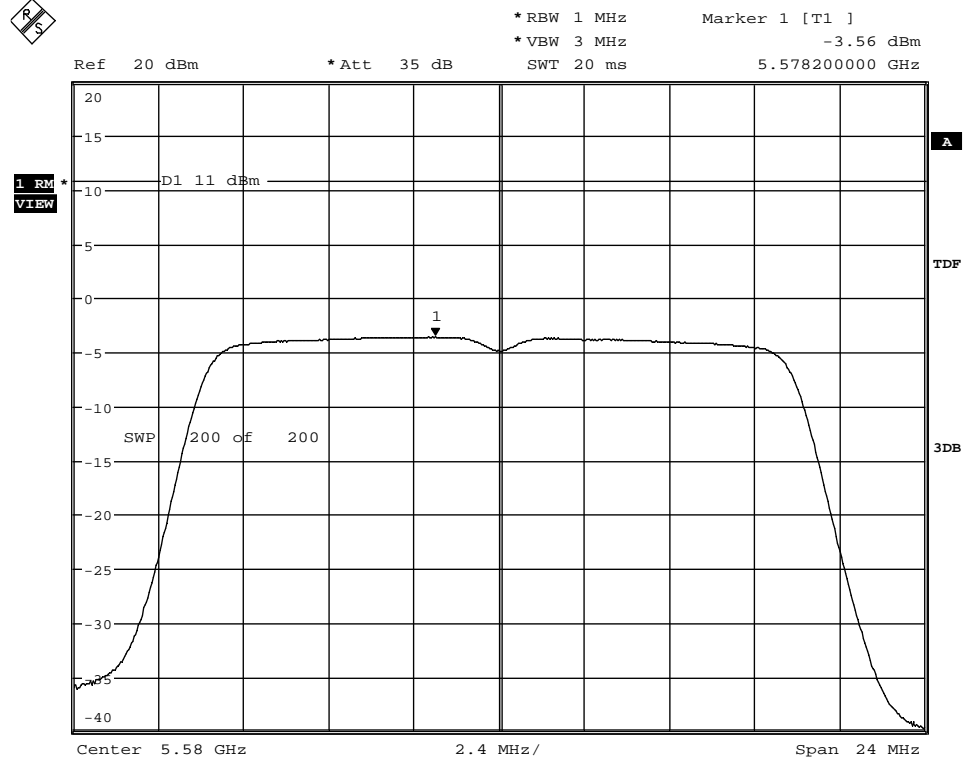


Date: 5.FEB.2015 11:42:14

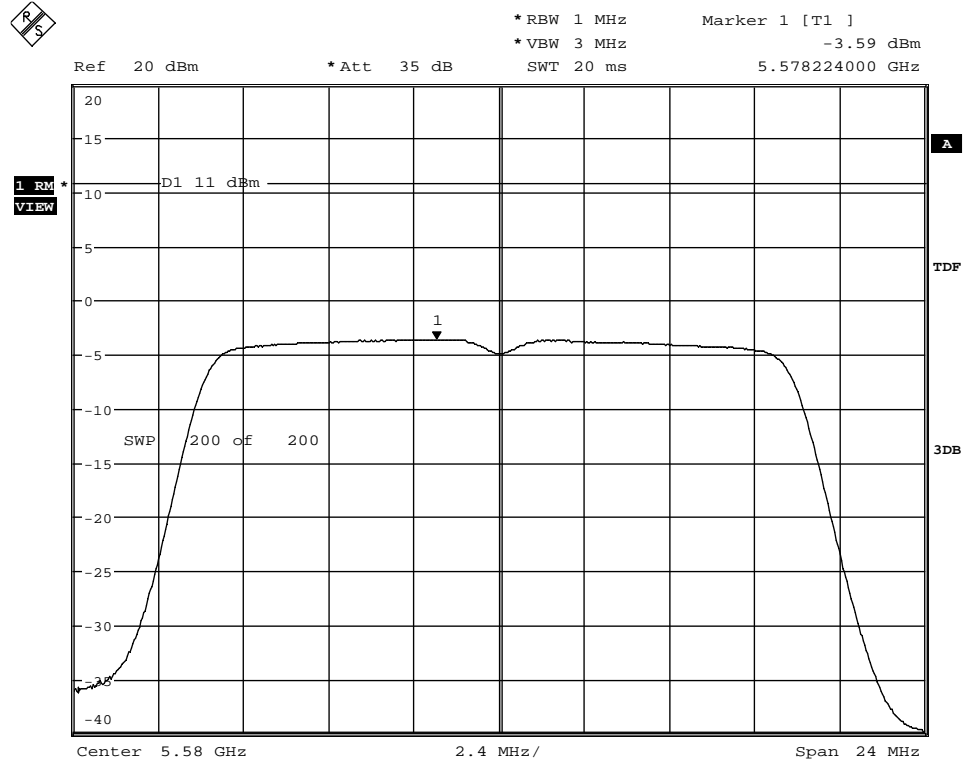


Date: 5.FEB.2015 11:43:58

a-mode, Channel 116

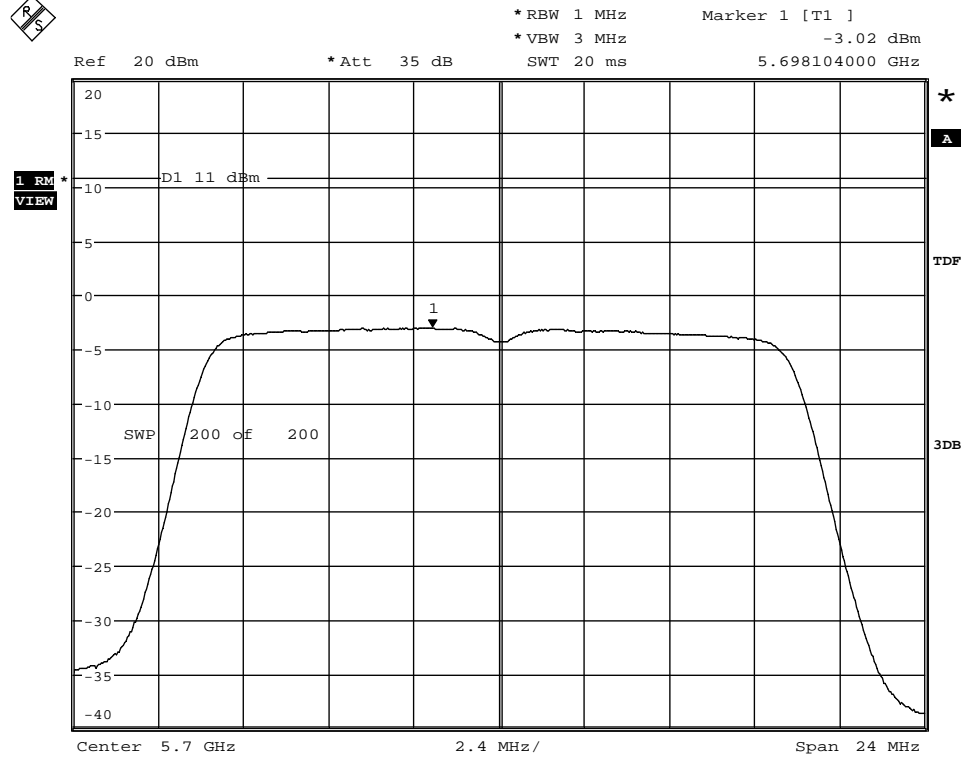


Date: 5.FEB.2015 12:01:38

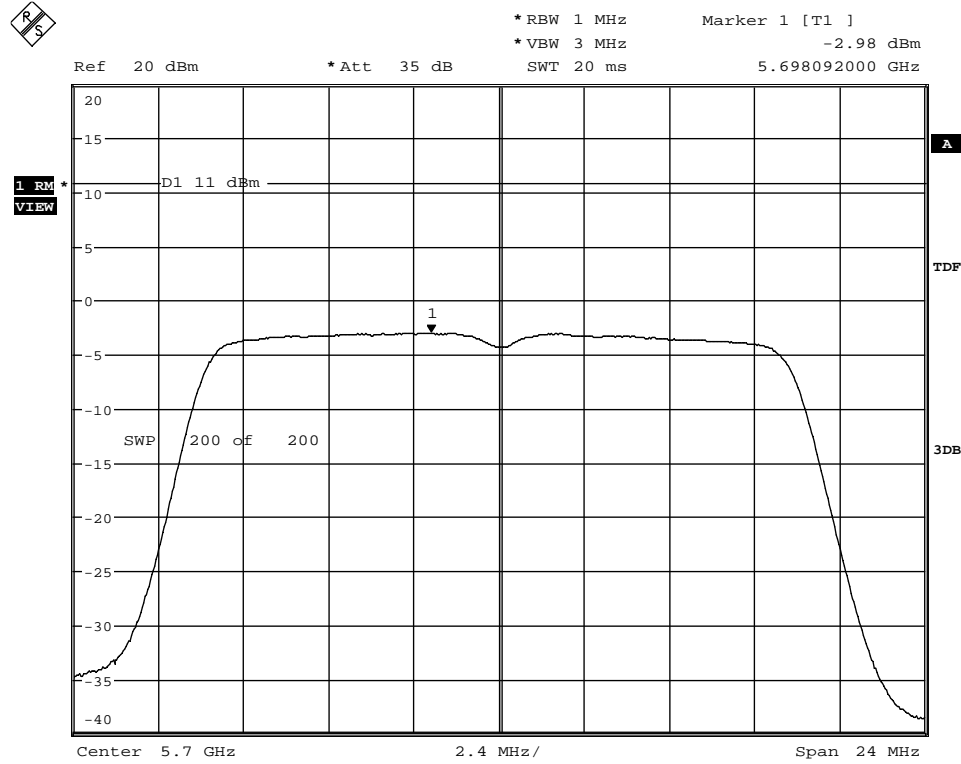


Date: 5.FEB.2015 12:02:54

a-mode, Channel 140



Date: 5.FEB.2015 12:11:52



Date: 5.FEB.2015 12:13:16

a-mode, Channel 149

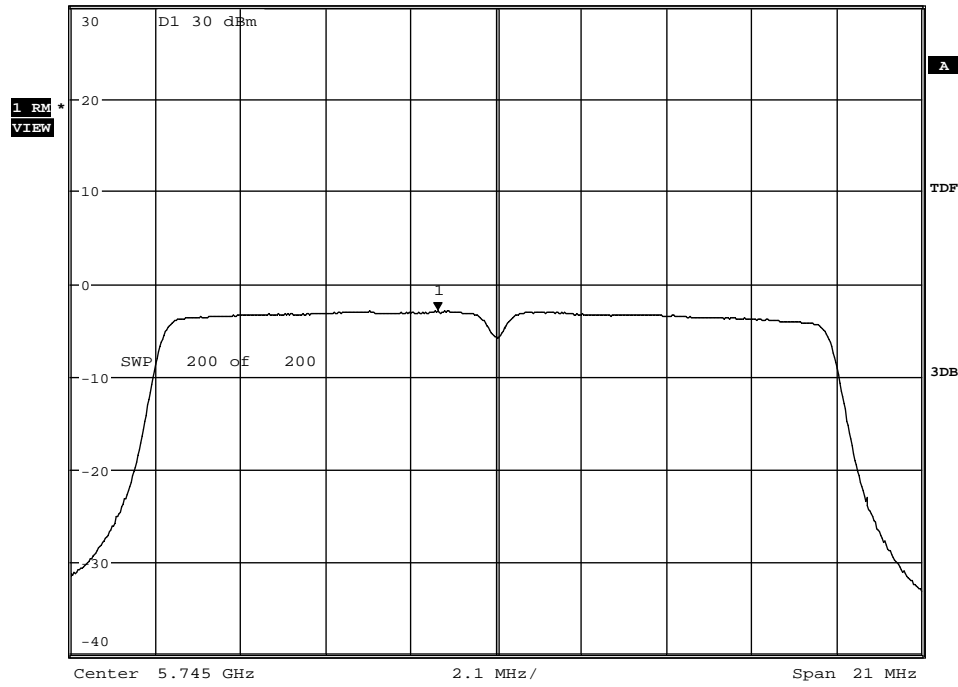


*RBW 500 kHz Marker 1 [T1]
*VBW 5 MHz -2.89 dBm
SWT 20 ms

Ref 30 dBm

*Att 35 dB

5.743551000 GHz



Date: 5.FEB.2015 12:35:25

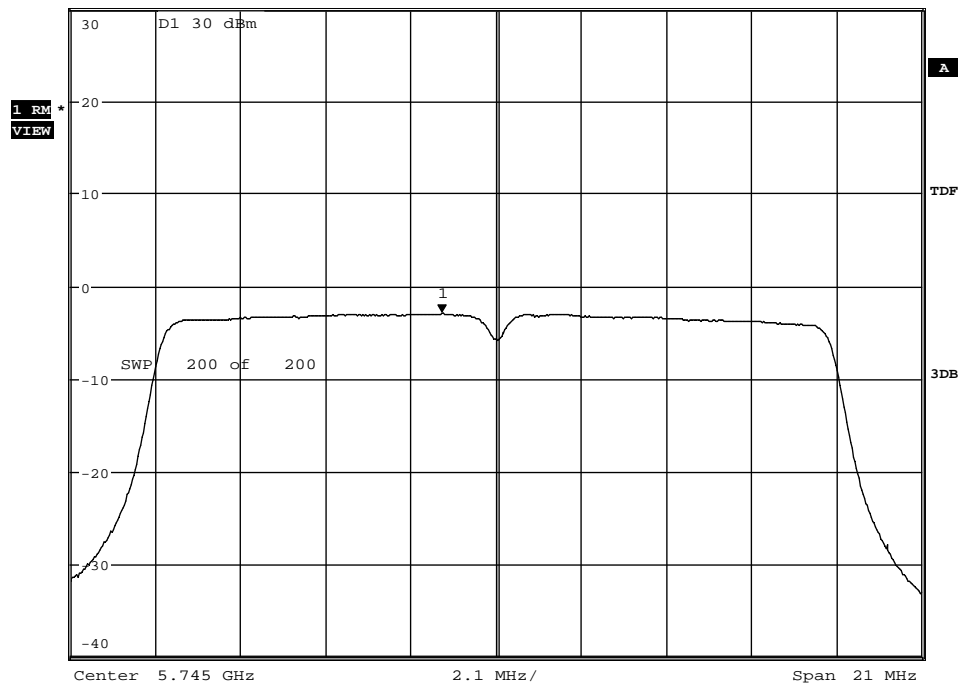


*RBW 500 kHz Marker 1 [T1]
*VBW 5 MHz -2.91 dBm
SWT 20 ms

Ref 30 dBm

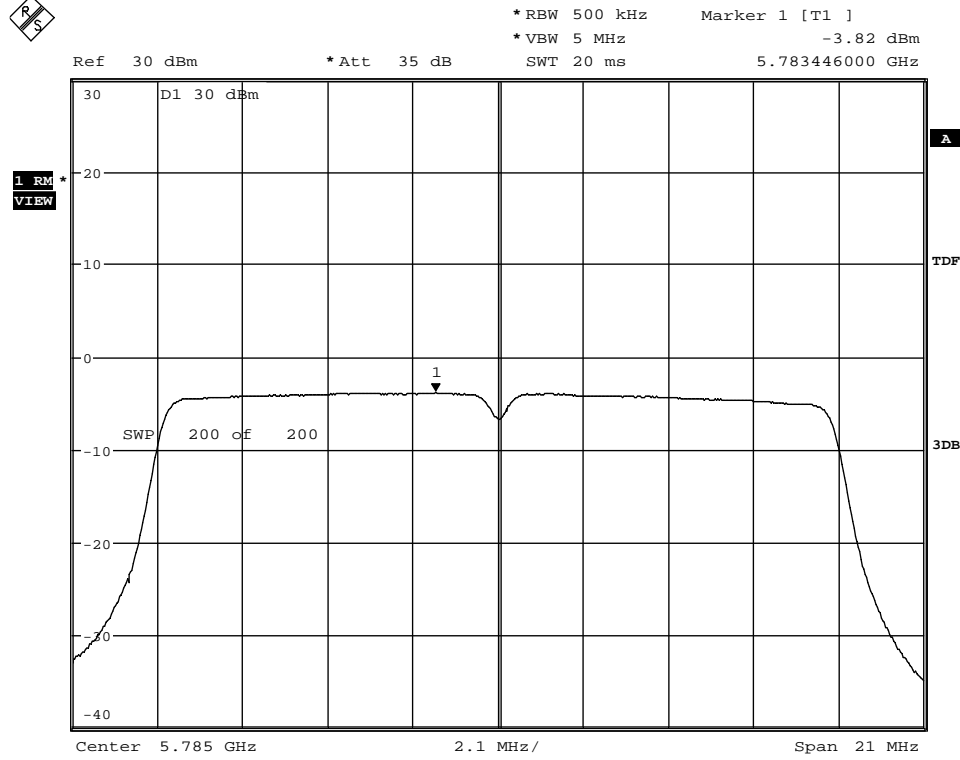
*Att 35 dB

5.743645500 GHz

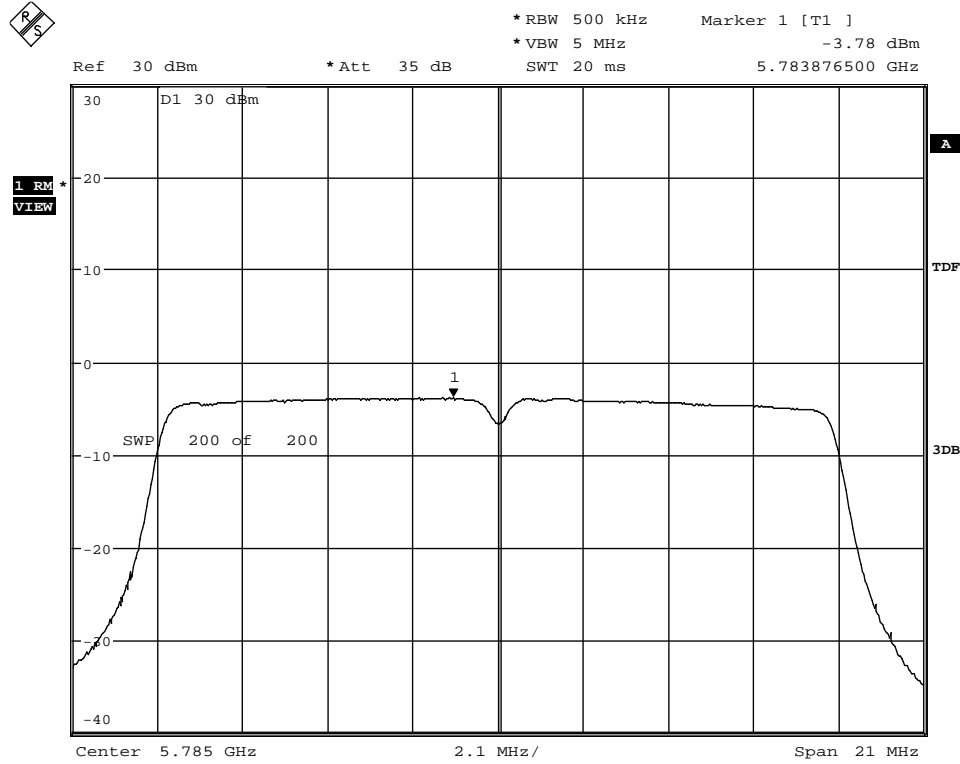


Date: 5.FEB.2015 12:37:17

a-mode, Channel 157



Date: 5.FEB.2015 12:45:20

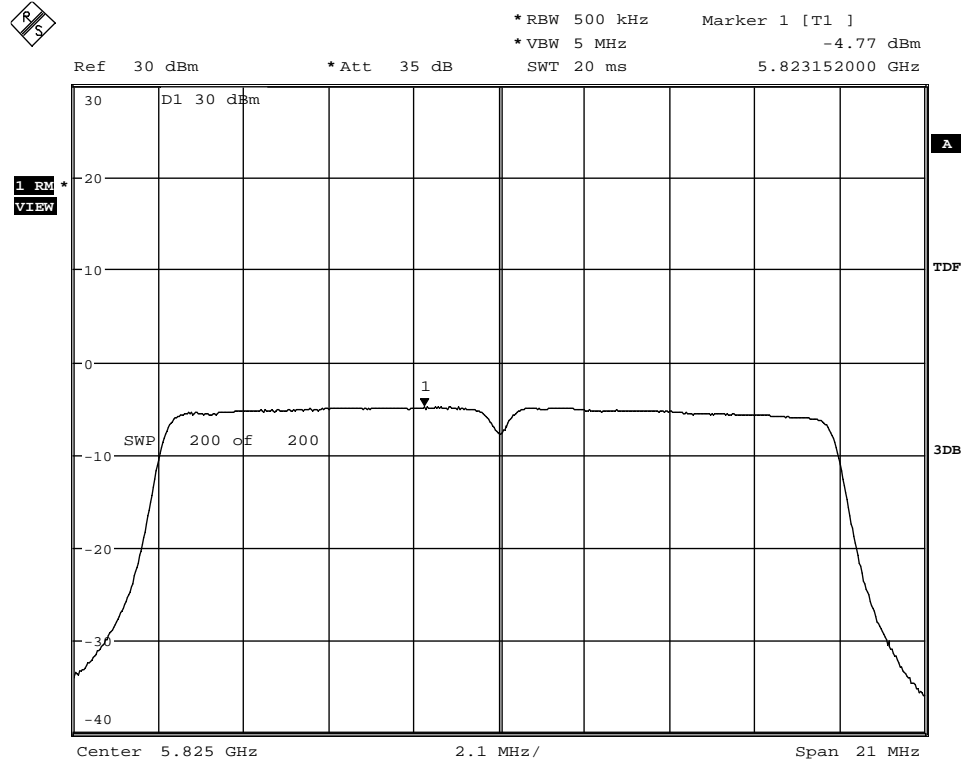


Date: 5.FEB.2015 12:46:43

a-mode, Channel 165

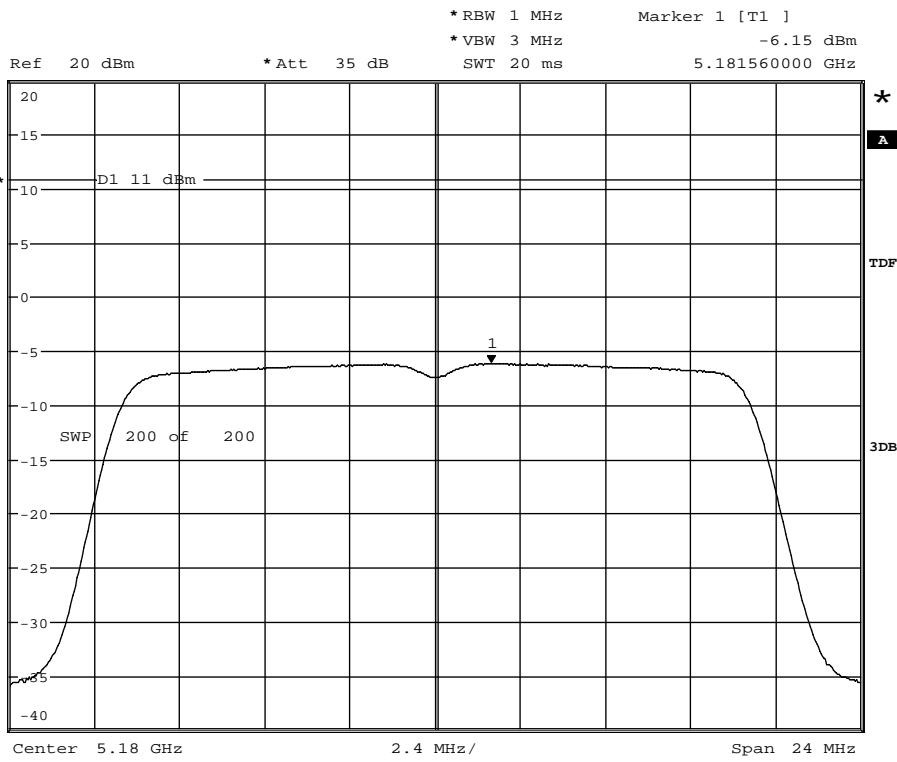


Date: 5.FEB.2015 12:53:44

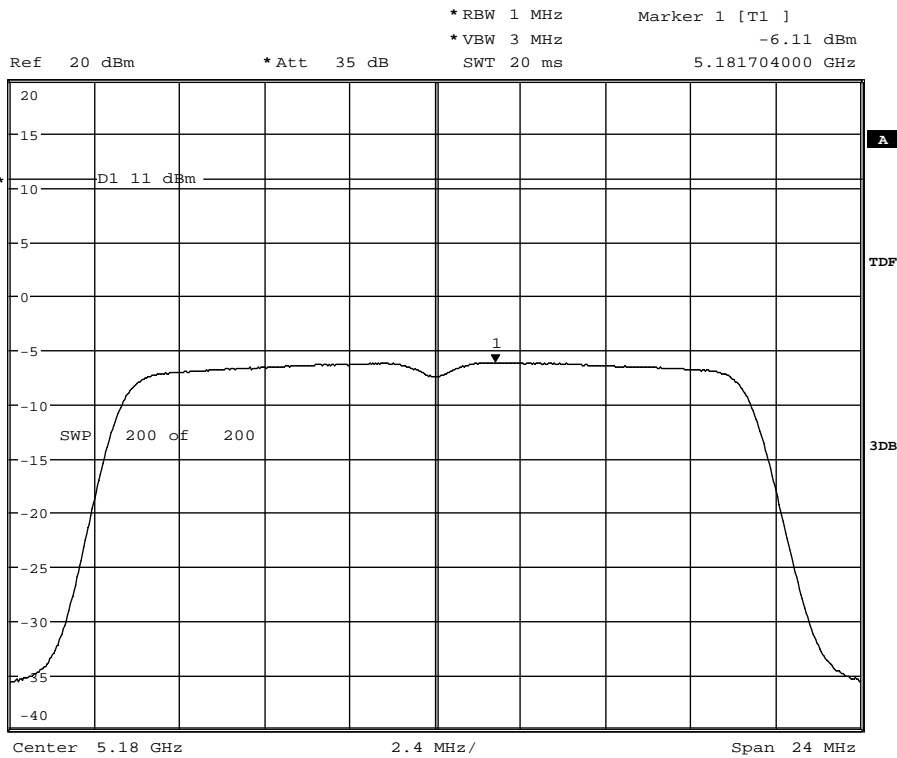


Date: 5.FEB.2015 12:55:19

n-mode, Channel 36

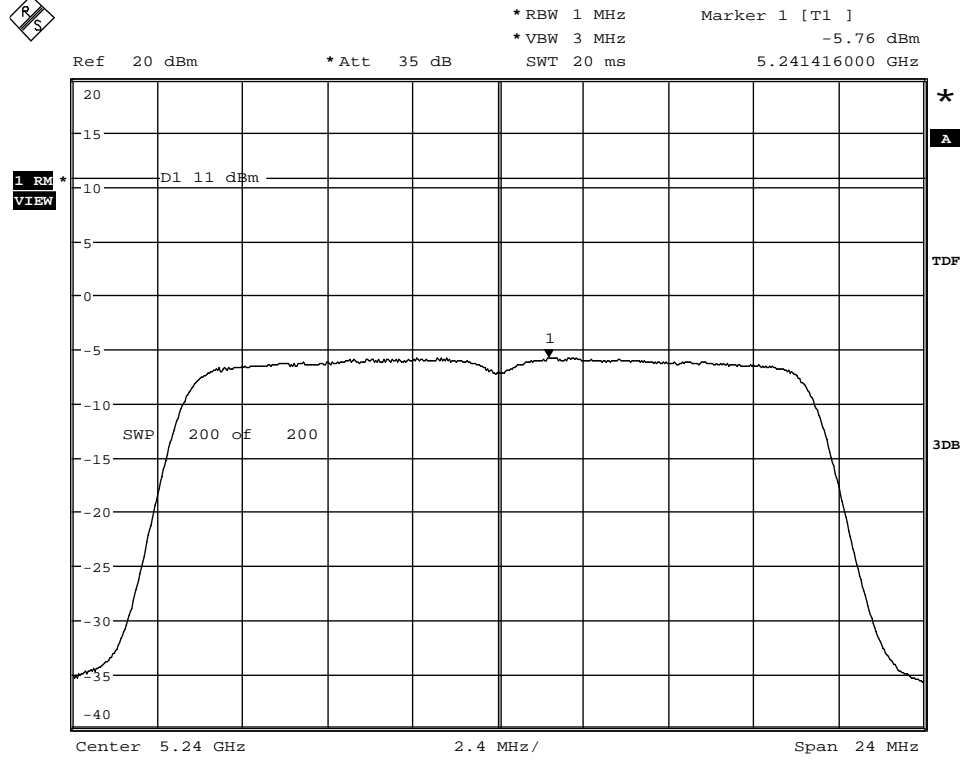


Date: 5.FEB.2015 11:29:29

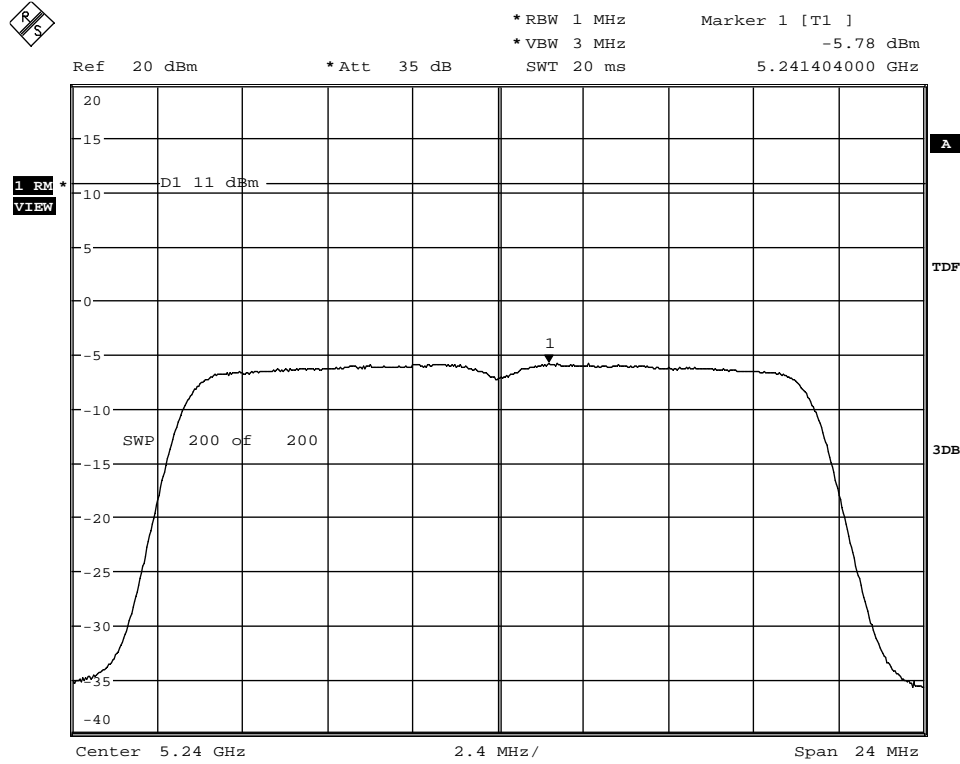


Date: 5.FEB.2015 11:30:57

n-mode, Channel 48



Date: 5.FEB.2015 11:25:28



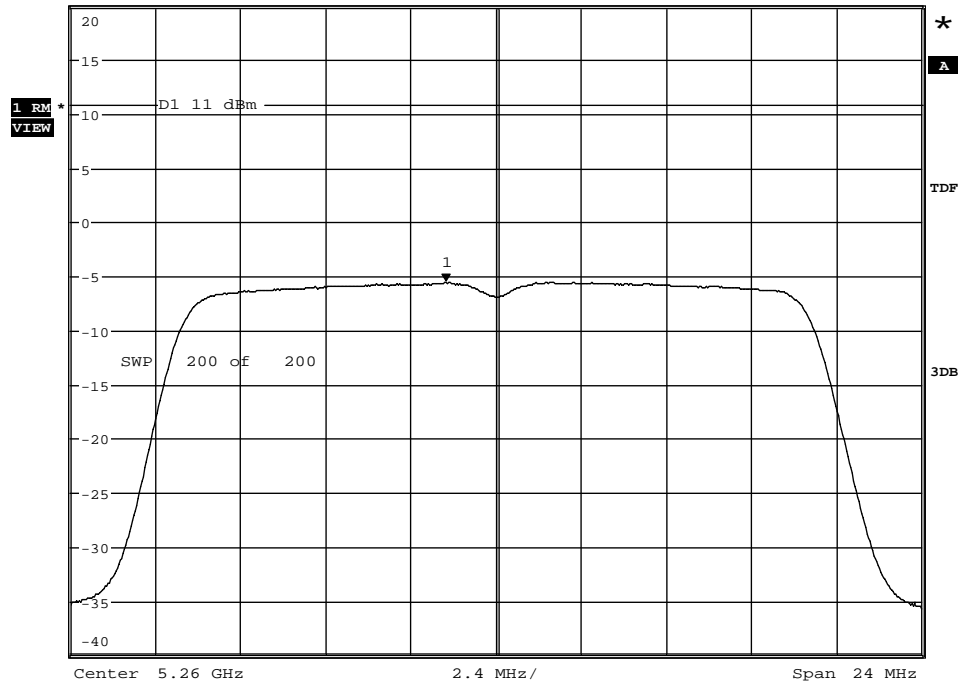
Date: 5.FEB.2015 11:27:31

n-mode, Channel 52



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz -5.55 dBm
 SWT 20 ms

Ref 20 dBm *Att 35 dB 5.258584000 GHz

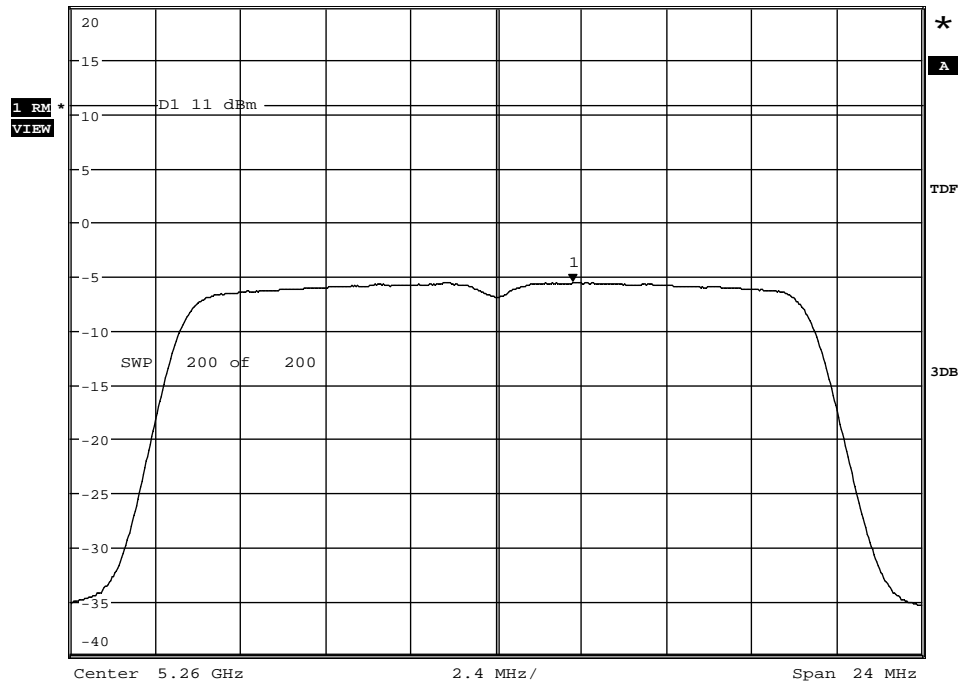


Date: 5.FEB.2015 11:16:36



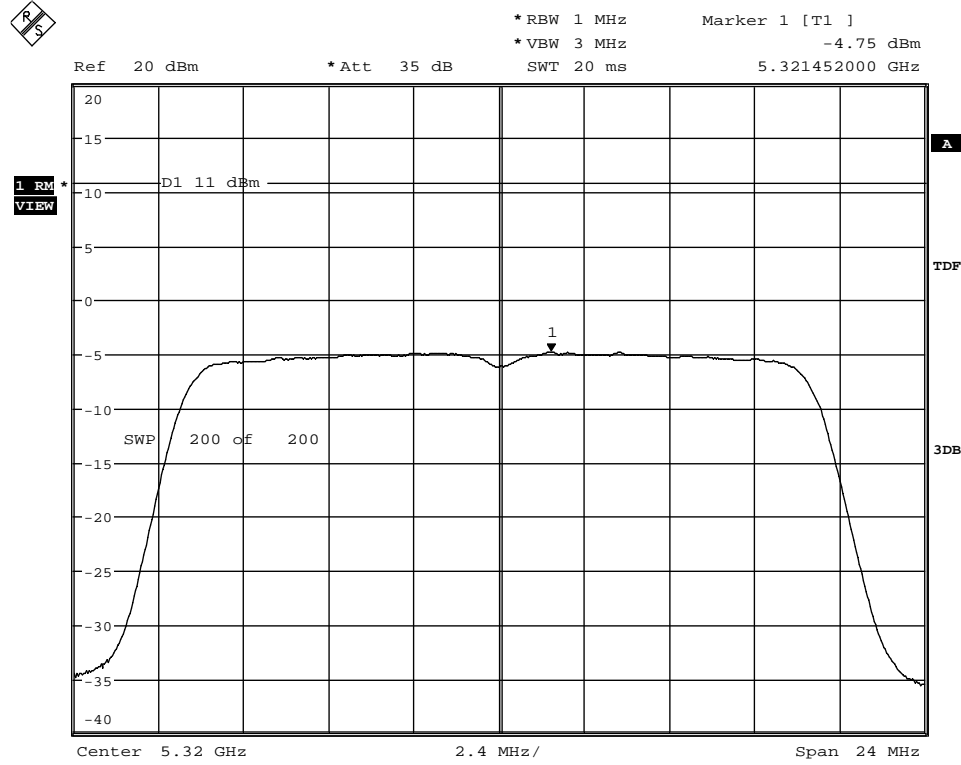
*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz -5.54 dBm
 SWT 20 ms

Ref 20 dBm *Att 35 dB 5.262160000 GHz

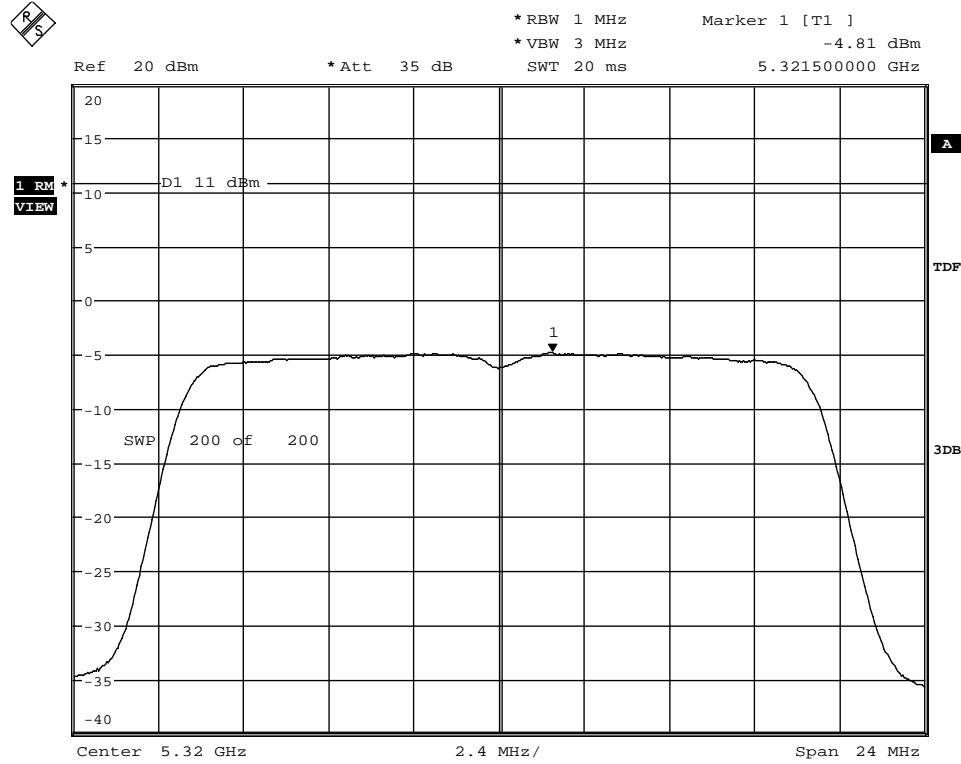


Date: 5.FEB.2015 11:20:24

n-mode, Channel 64



Date: 5.FEB.2015 11:11:49



Date: 5.FEB.2015 11:13:31

n-mode, Channel 100

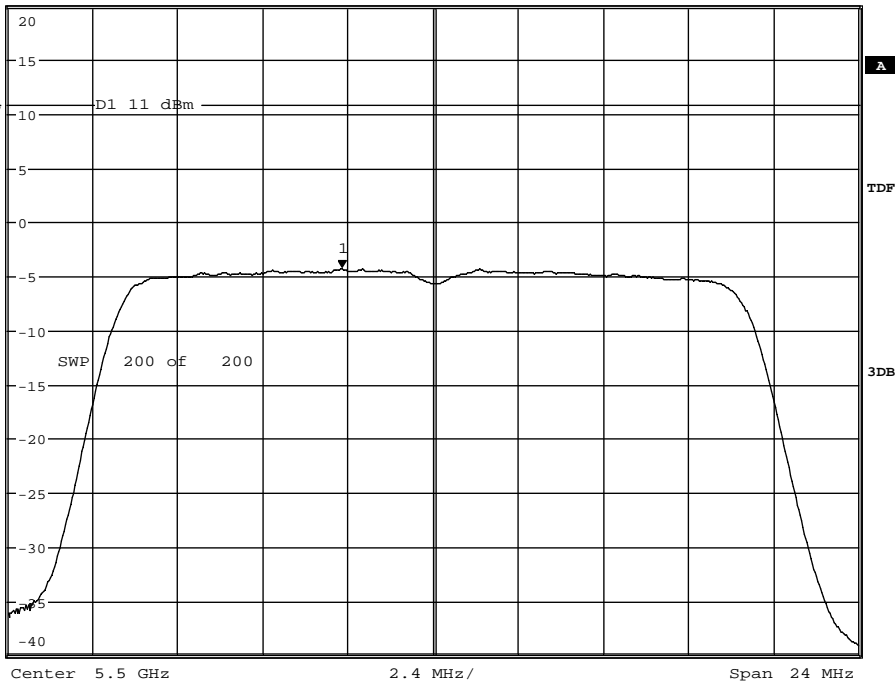


*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -4.29 dBm
SWT 20 ms 5.497420000 GHz

Ref 20 dBm

*Att 35 dB

1 RM
VIEW



Date: 5.FEB.2015 11:45:18

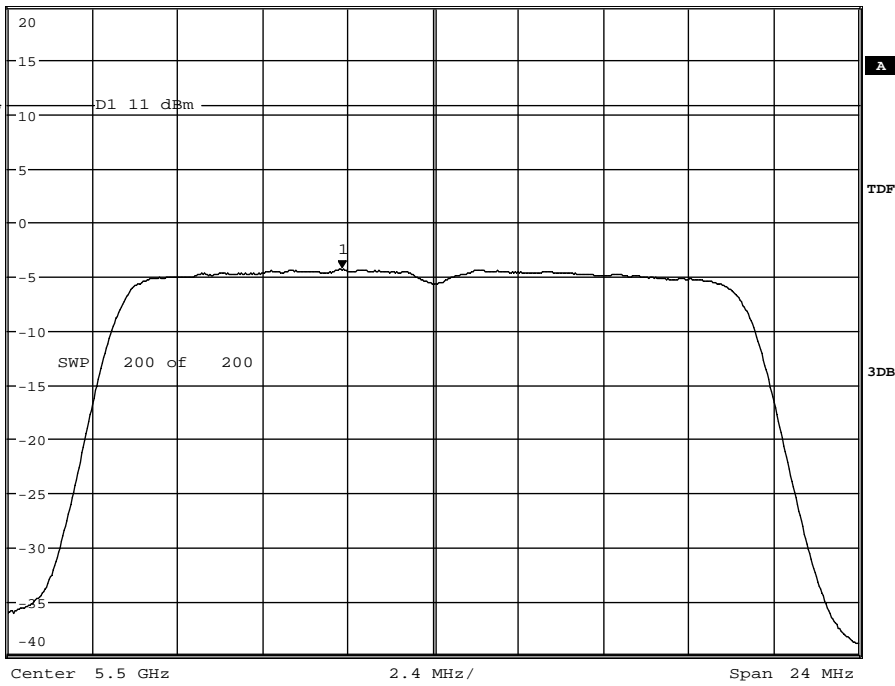


*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -4.31 dBm
SWT 20 ms 5.497408000 GHz

Ref 20 dBm

*Att 35 dB

1 RM
VIEW



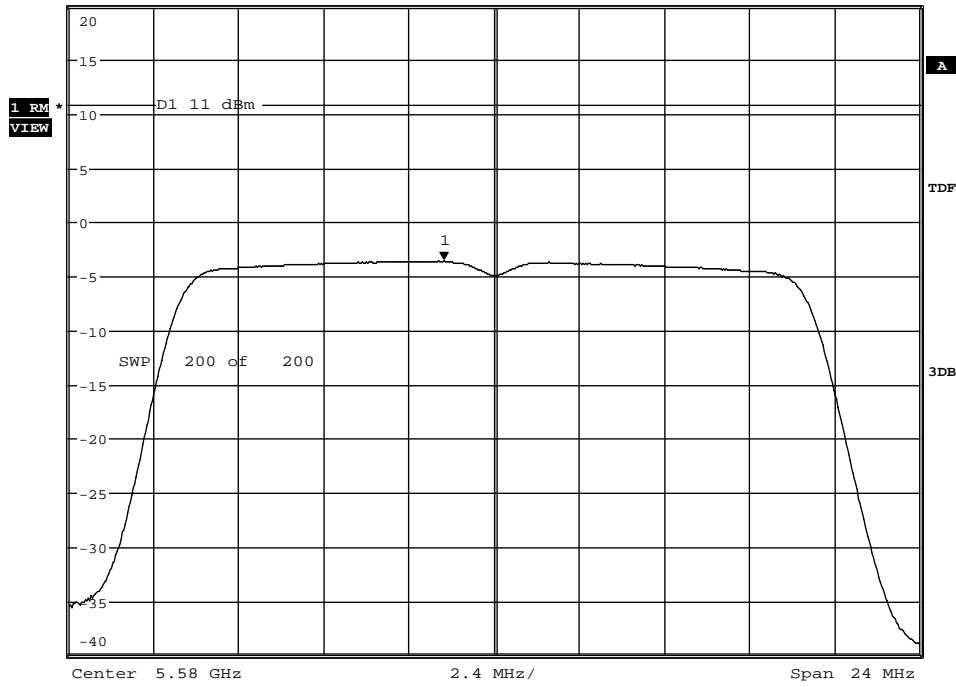
Date: 5.FEB.2015 11:48:59

n-mode, Channel 116



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -3.55 dBm
SWT 20 ms 5.578596000 GHz

Ref 20 dBm *Att 35 dB

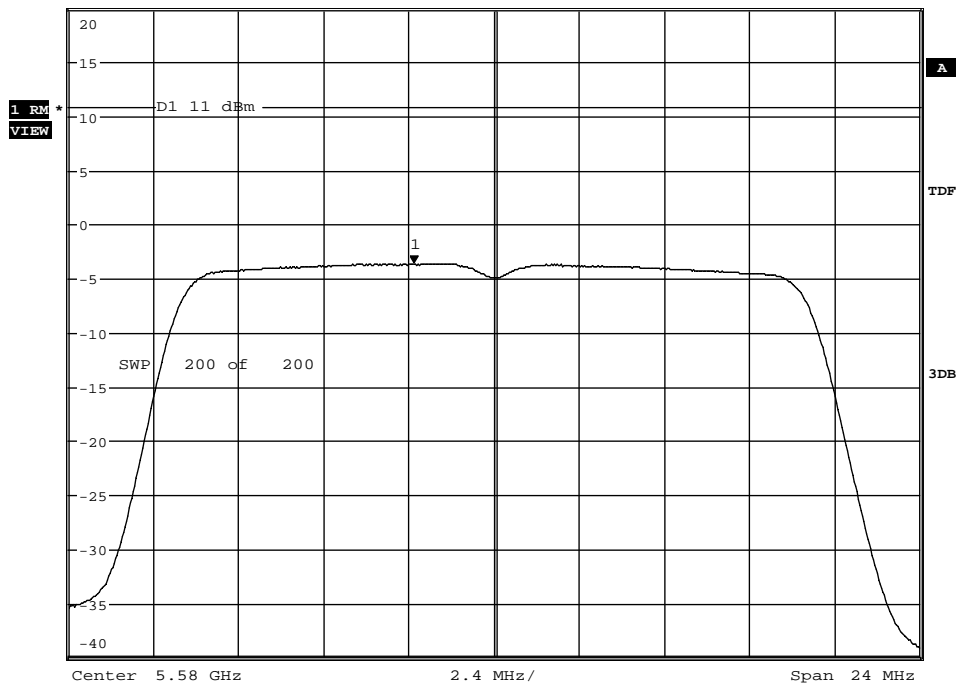


Date: 5.FEB.2015 12:04:22



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -3.61 dBm
SWT 20 ms 5.577720000 GHz

Ref 20 dBm *Att 35 dB



Date: 5.FEB.2015 12:05:44

n-mode, Channel 140

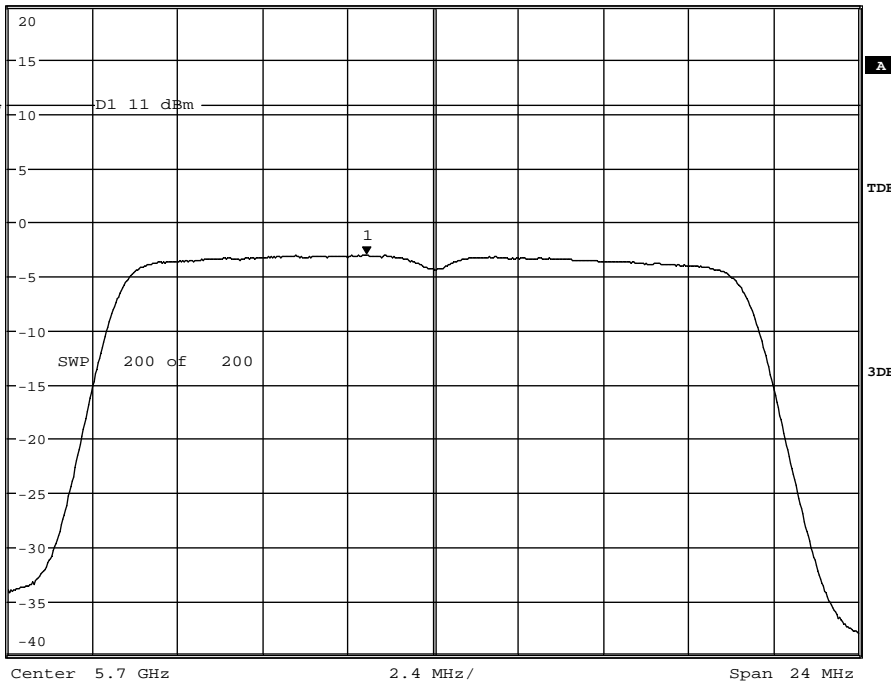


*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -3.02 dBm
SWT 20 ms 5.698116000 GHz

Ref 20 dBm

*Att 35 dB

1 RM
VIEW



Date: 5.FEB.2015 12:14:36

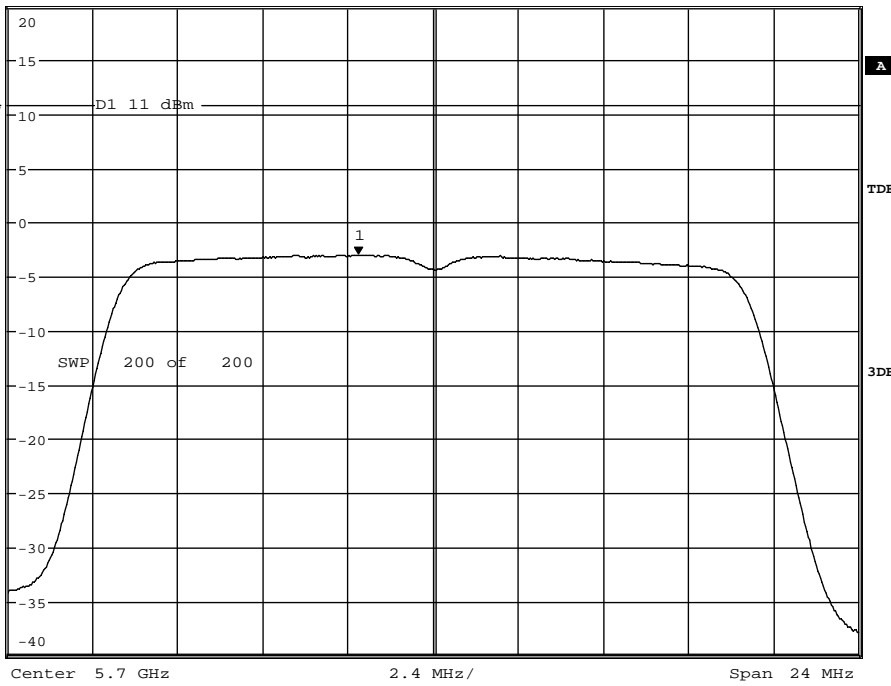


*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -2.96 dBm
SWT 20 ms 5.697900000 GHz

Ref 20 dBm

*Att 35 dB

1 RM
VIEW



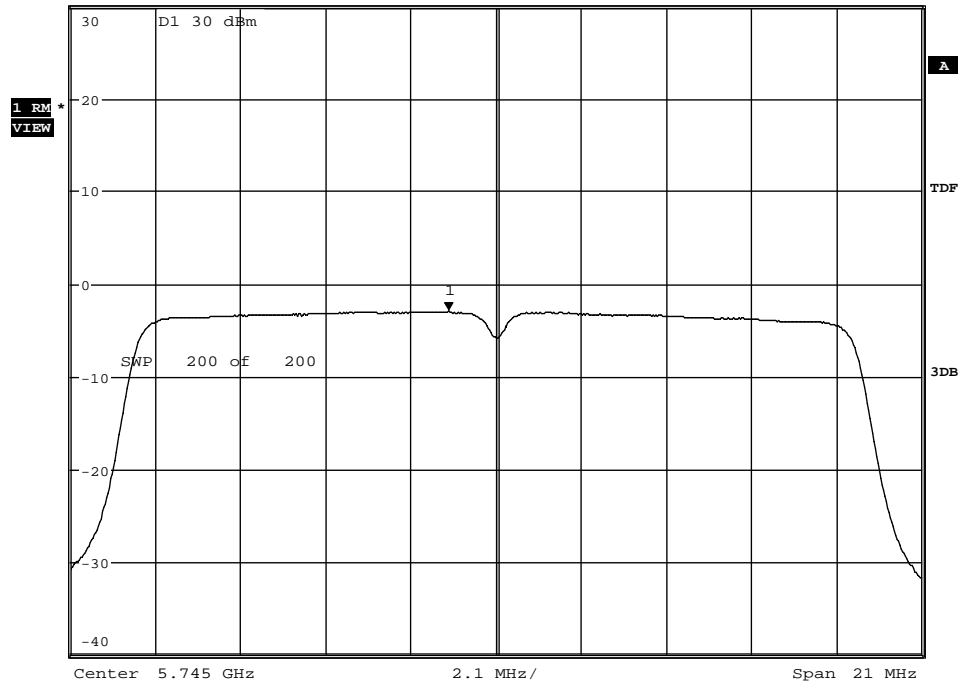
Date: 5.FEB.2015 12:15:48

n-mode, Channel 149



*RBW 500 kHz Marker 1 [T1]
*VBW 5 MHz -2.92 dBm
SWT 20 ms 5.743813500 GHz

Ref 30 dBm *Att 35 dB

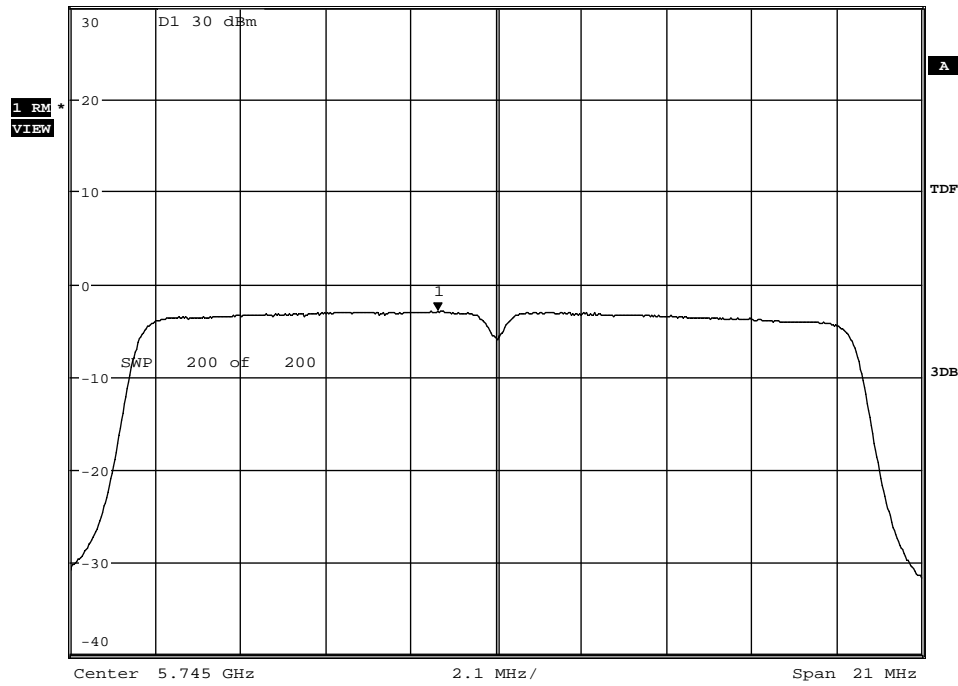


Date: 5.FEB.2015 12:39:10



*RBW 500 kHz Marker 1 [T1]
*VBW 5 MHz -2.88 dBm
SWT 20 ms 5.743561500 GHz

Ref 30 dBm *Att 35 dB

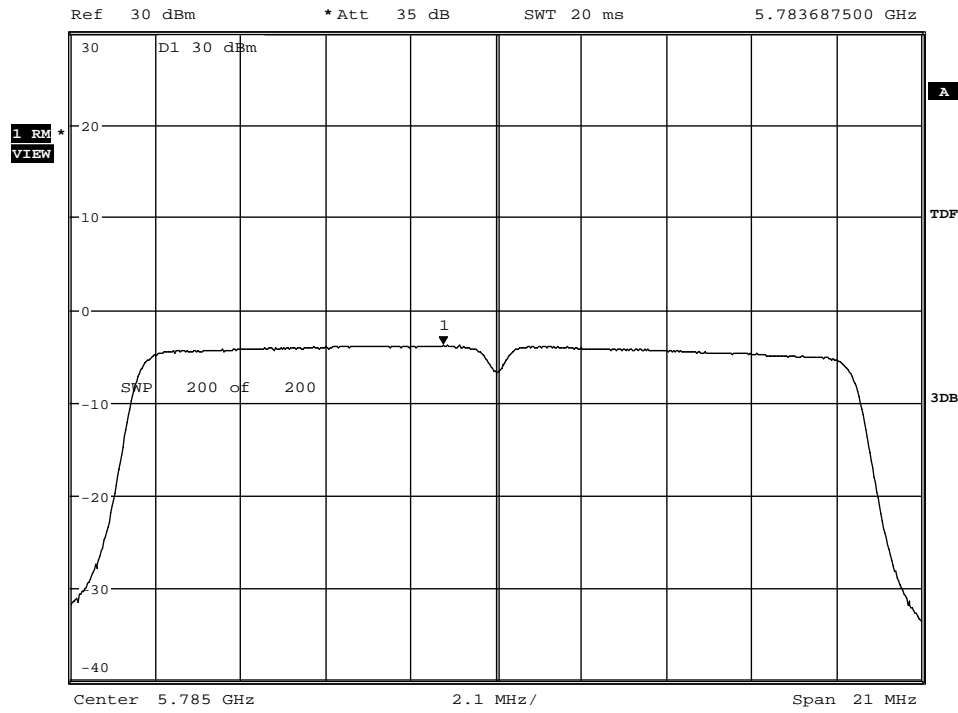


Date: 5.FEB.2015 12:40:44

n-mode, Channel 157



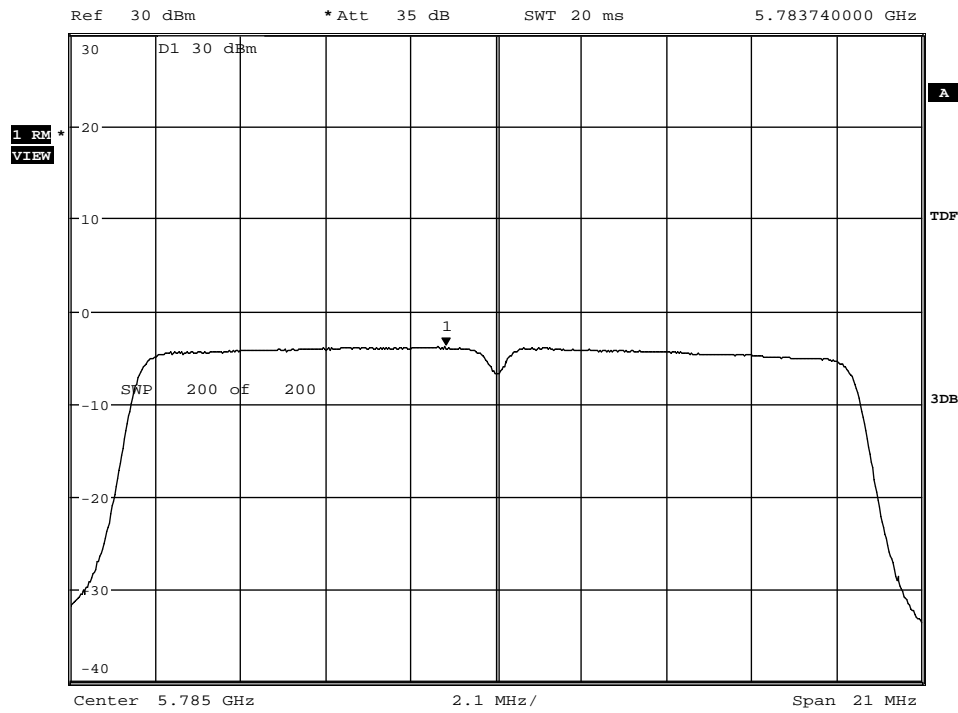
*RBW 500 kHz Marker 1 [T1]
*VBW 5 MHz -3.75 dBm
SWT 20 ms 5.783687500 GHz



Date: 5.FEB.2015 12:48:41



*RBW 500 kHz Marker 1 [T1]
*VBW 5 MHz -3.77 dBm
SWT 20 ms 5.783740000 GHz

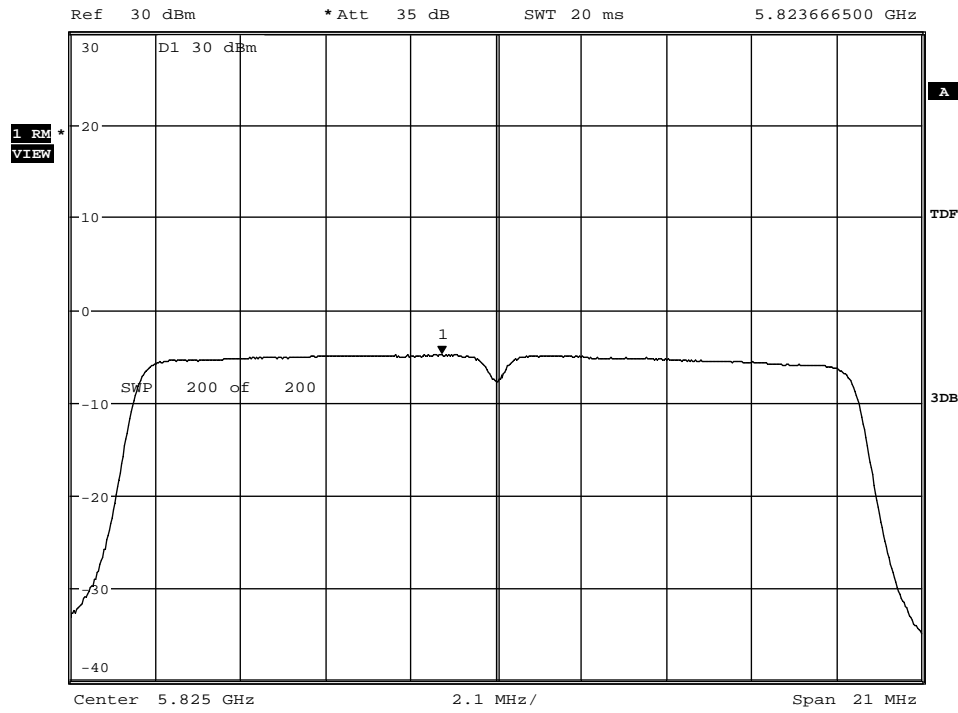


Date: 5.FEB.2015 12:50:03

n-mode, Channel 165



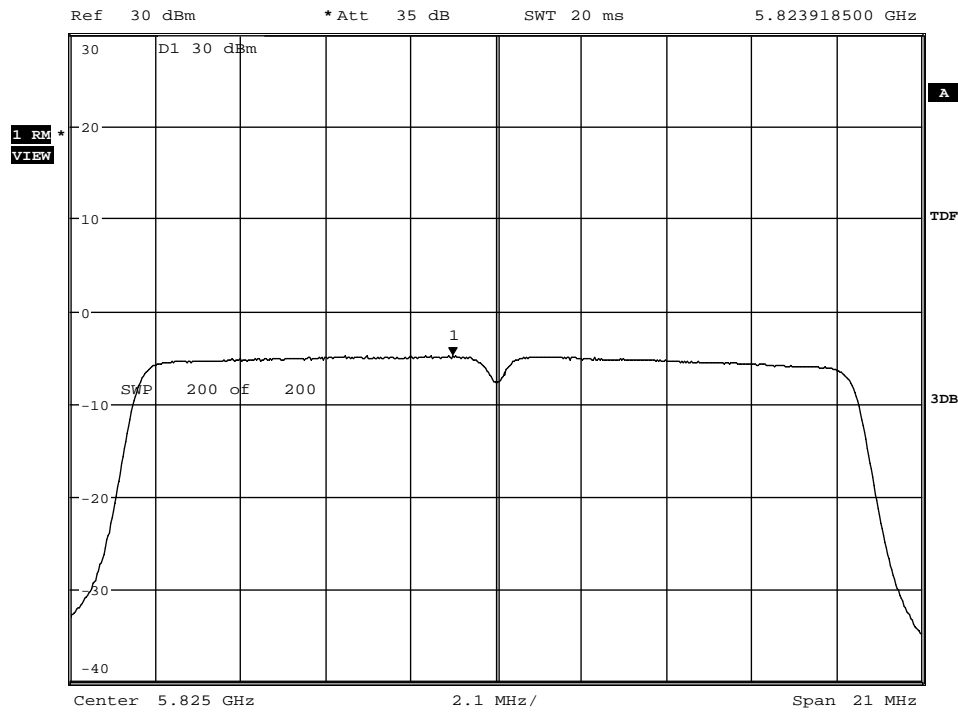
*RBW 500 kHz Marker 1 [T1]
*VBW 5 MHz -4.79 dBm
SWT 20 ms 5.823666500 GHz



Date: 5.FEB.2015 12:56:41



*RBW 500 kHz Marker 1 [T1]
*VBW 5 MHz -4.75 dBm
SWT 20 ms 5.823918500 GHz



Date: 5.FEB.2015 12:58:13