

Annex 3: Measurement diagrams to
TEST REPORT
No.: 6-0608-14-1-4a

According to:
FCC Regulations
Part 22, Part 24, Part 15.209

IC-Regulations
RSS-132, RSS-133, RSS-Gen

for

Telit Communications S.p.A.

UE866-N3G
3G module

FCC-ID: RI7UE866N3

IC: 5131A-UE866N3
PMN: UE866-N3G
HVIN: 0H0

Laboratory Accreditation and Listings			
 DAkkS Deutsche Akkreditierungsstelle D-PL-12047-01-01	 MRA US-EU 0003	 Industry Canada Reg. No.: 3462D-1 Reg. No.: 3462D-2 Reg. No.: 3462D-3	 Voluntary Controls for Electromagnetic Emissions Reg. No.: R-2666 C-2914, T-1967, G-301
 WiFi ALLIANCE AUTHORIZED RF LABORATORY	 CTIA Authorized Test Lab LAB CODE 20011130-00		
accredited according to DIN EN ISO/IEC 17025			
CETECOM GmbH Laboratory Radio Communications & Electromagnetic Compatibility Im Teelbruch 116 • 45219 Essen • Germany Registered in Essen, Germany, Reg. No.: HRB Essen 8984 Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964 E-mail: info@cetecom.com • Internet: www.cetecom.com			

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1. Measurement diagrams

1.1. Spurious emissions radiated (FDD Band II transmitting mode)

8.04_TCH_UMTS-FDDII_ch9262_nomVolt

Common Information

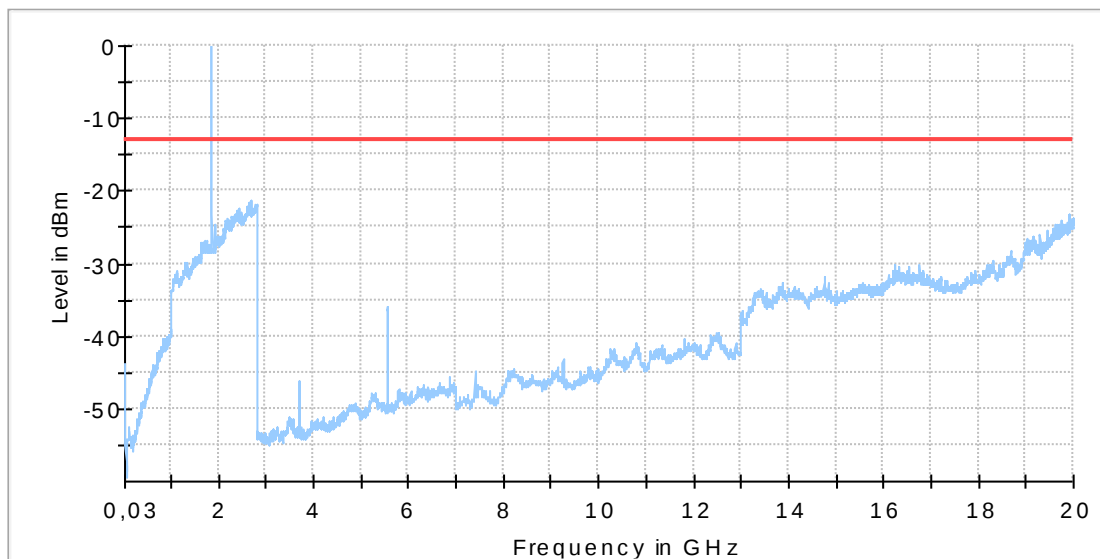
Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9262 (fc = 1852.4MHz)
Environmental Conditions:	Humidity: 34%rH; Temperature: 23°C
Operator:	npe/mzs

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d

HW Version:	A
SW Version:	stream UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	USB Cable, Antenna T-AT314-BU
Power Supply:	AC Adaptor Ktec Model:KSA0151200125D5
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Po l	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1853.677355	-13.00	-34.32	10000.0	H	160.0	90.0	-63.1

8.05_TCH_UMTS-FDDII_ch9400_nomVolt

Common Information

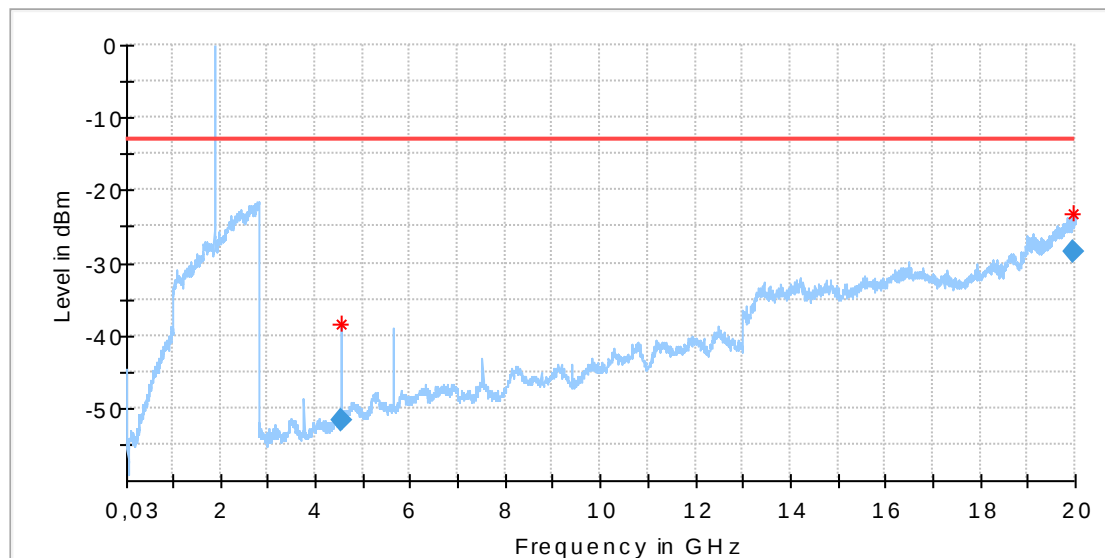
Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9400 (fc = 1880.0 MHz)
Environmental Conditions:	Humidity: 34%rH; Temperature: 23°C
Operator:	npe/mzs

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d

HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	USB Cable, Antenna T-AT314-BU
Power Supply:	AC Adaptor Ktec Model:KSA0151200125D5
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Po l	Azimut h (deg)	Elevatio n (deg)	Corr. (dB)
1878.787576	-13.00	-33.96	10000.0	H	169.0	90.0	-63.0
4546.503006	-13.00	38.73	10000.0	H	280.0	90.0	-92.4
19953.176353	-13.00	15.55	10000.0	V	119.0	90.0	-60.4

8.06_TCH_UMTS-FDDII_ch9538_nomVolt

Common Information

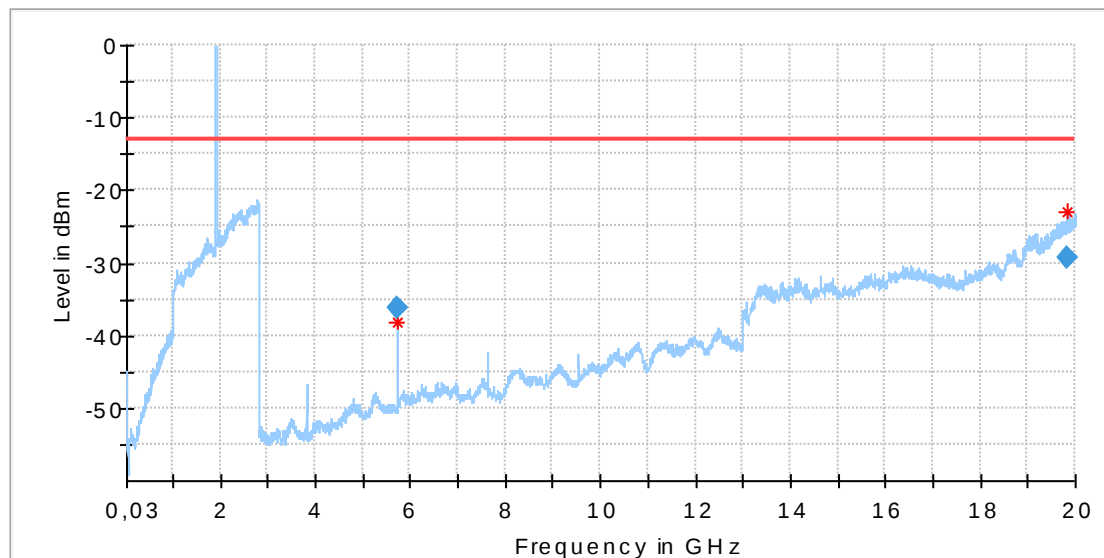
Test Description:	Radiated Spurious Emissions UMTS FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 24
Operating Mode:	UE allocated channel 9262/9400/9538 (fc = 1852.4/1880.0/1907.6 MHz)
Environmental Conditions:	Humidity: 34%rH; Temperature: 23°C
Operator:	npe/mzs

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d

HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	USB Cable, Antenna T-AT314-BU
Power Supply:	AC Adaptor Ktec Model:KSA0151200125D5
Comments:	

Full Spectrum



Final Result

Frequency (MHz)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Po l	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1906.402806	-13.00	-35.28	10000.0	H	159.0	90.0	-62.9
5726.583166	-13.00	23.21	10000.0	H	50.0	90.0	-89.5
19818.847696	-13.00	16.24	10000.0	V	262.0	0.0	-60.6

1.2. Spurious emissions radiated (FDD Band V transmitting mode)

8.01_TCH_UMTS-FDDV_ch4132_nomVolt

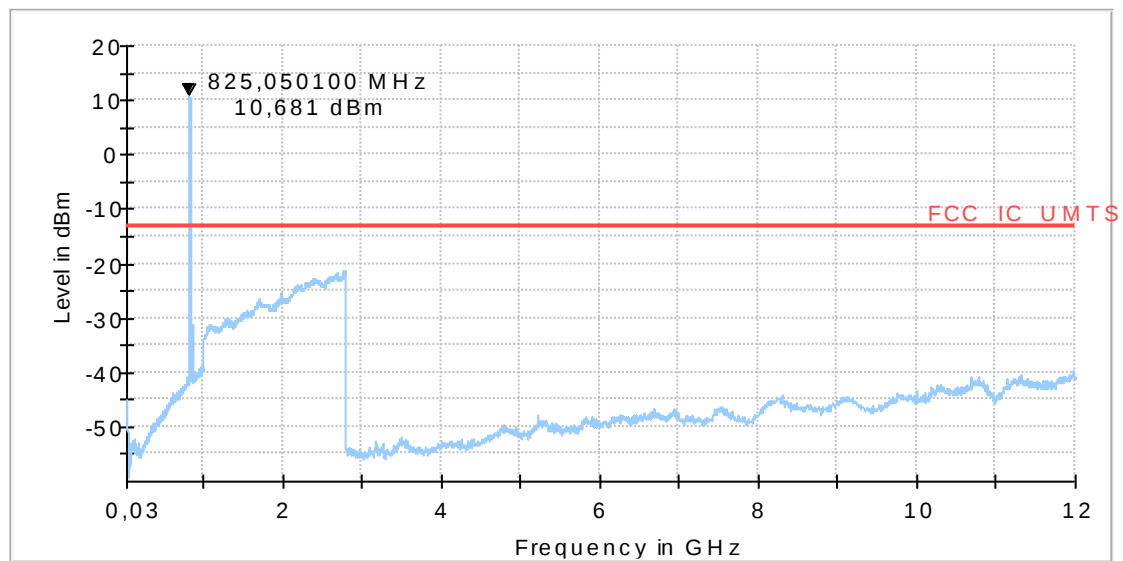
Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4132 (fc = 826.4MHz), RMC Mode, PCL3 (+24dBm)
Environmental Conditions:	Humidity: 30%rH; Temperature: 24°C
Operator:	HLA

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	USB Cable, Antenna T-AT314-BU
Power Supply:	AC Adaptor Ktec Model:KSA0151200125D5
Comments:	

Full Spectrum



8.02_TCH_UMTS-FDDV_ch4183_nomVolt

Common Information

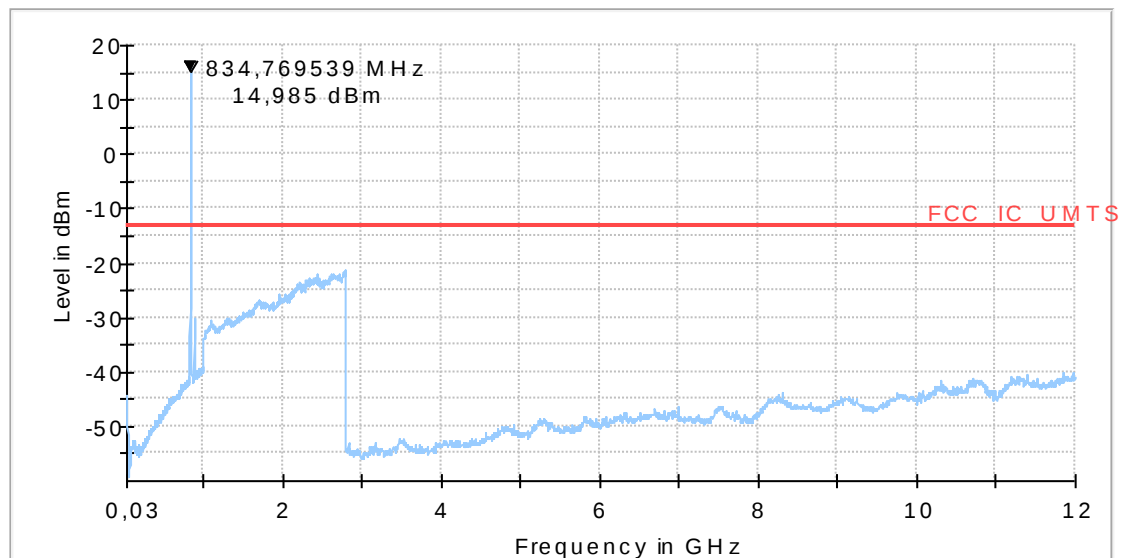
Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4183 (fc = 836.6MHz), RMC Mode, PCL3 (+24dBm)
Environmental Conditions:	Humidity: 30%rH; Temperature: 24°C
Operator:	HLA

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d

HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	USB Cable, Antenna T-AT314-BU
Power Supply:	AC Adaptor Ktec Model:KSA0151200125D5
Comments:	

Full Spectrum



8.03_TCH_UMTS-FDDV_ch4233_nomVolt

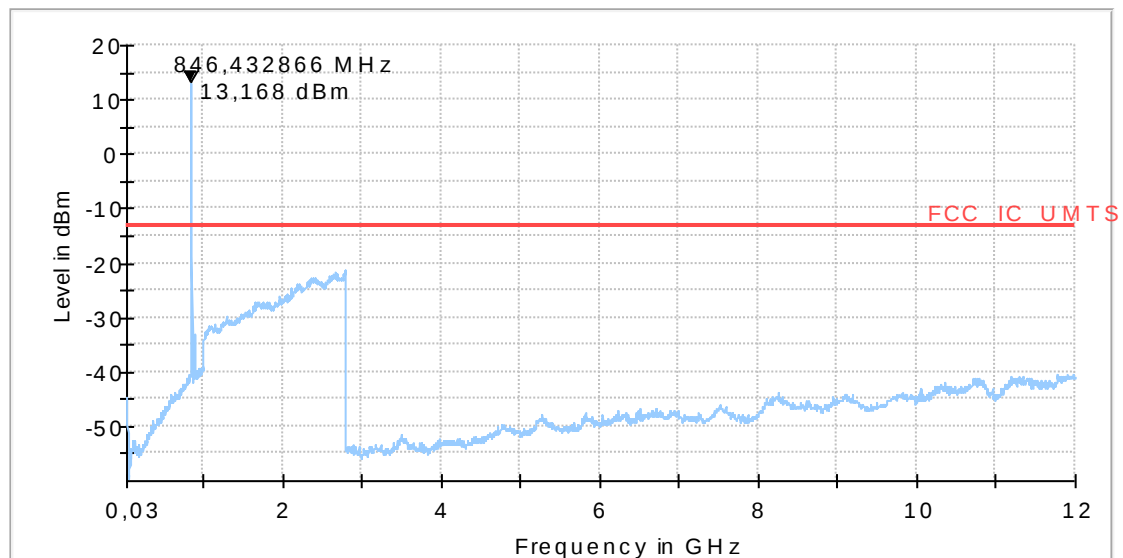
Common Information

Test Description:	Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4233 (fc = 846.6MHz), RMC Mode, PCL3 (+24dBm)
Environmental Conditions:	Humidity: 30%rH; Temperature: 24°C
Operator:	HLA

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	USB Cable, Antenna T-AT314-BU
Power Supply:	AC Adaptor Ktec Model:KSA0151200125D5
Comments:	

Full Spectrum



1.3. Radiated emissions on FDD Band II band-edge

9.03_BE_FDDII_ch9262

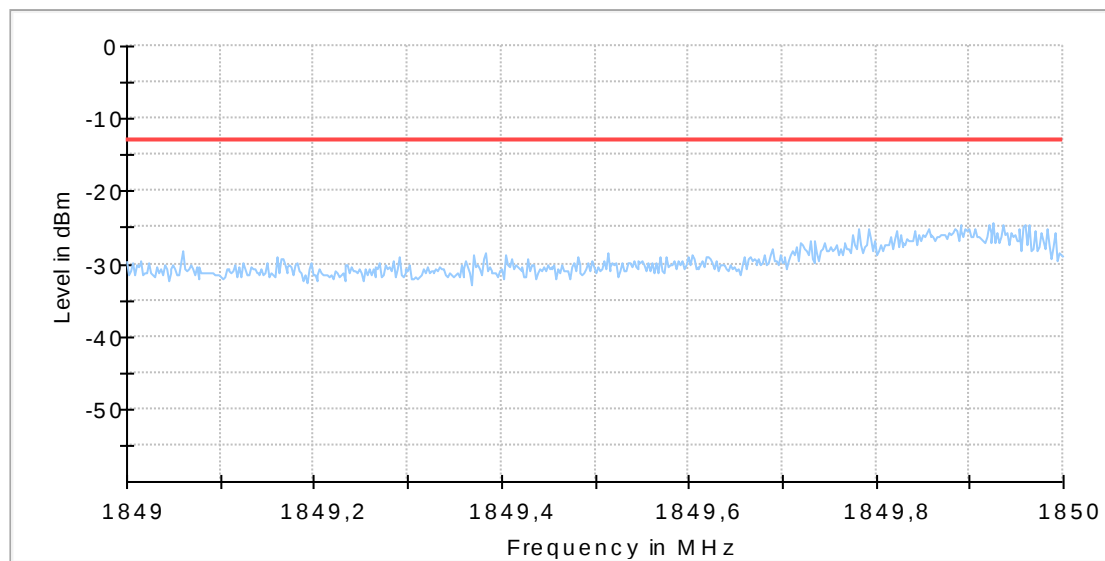
Common Information

Test Description:	Radiated Band Edge Compliance UMTS-FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	UE allocated channel 9262
Exclusionband:	--
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	NPE/MZS

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
-----	-----
HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	USB Cable, Antenna T-AT314-BU
Power Supply:	AC Adaptor Ktec Model:KSA0151200125D5
Comments:	

Full Spectrum



9.04_BE_FDDII_ch9538

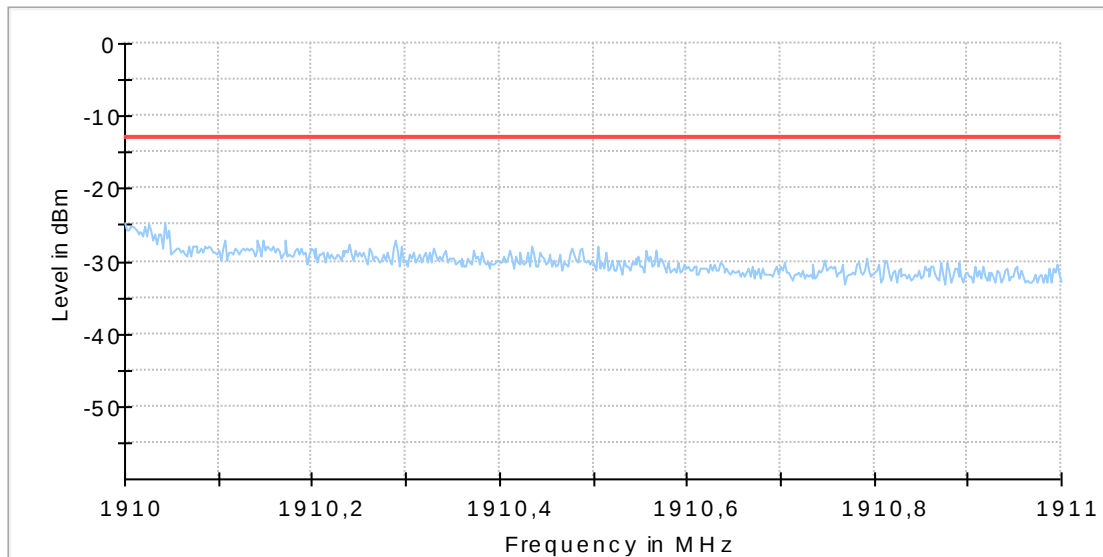
Common Information

Test Description:	Radiated Band Edge Compliance UMTS-FDDII
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917
Operating Mode:	UE allocated channel 9538
Exclusionband:	--
Environmental Conditions:	Humidity: 35%rH; Temperature: 22°C
Operator:	NPE/MZS

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
-----	-----
HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	USB Cable, Antenna T-AT314-BU
Power Supply:	AC Adaptor Ktec Model:KSA0151200125D5
Comments:	

Full Spectrum



1.4. Radiated emissions on FDD Band V band-edge

9.01_BE_FDDV_ch4132

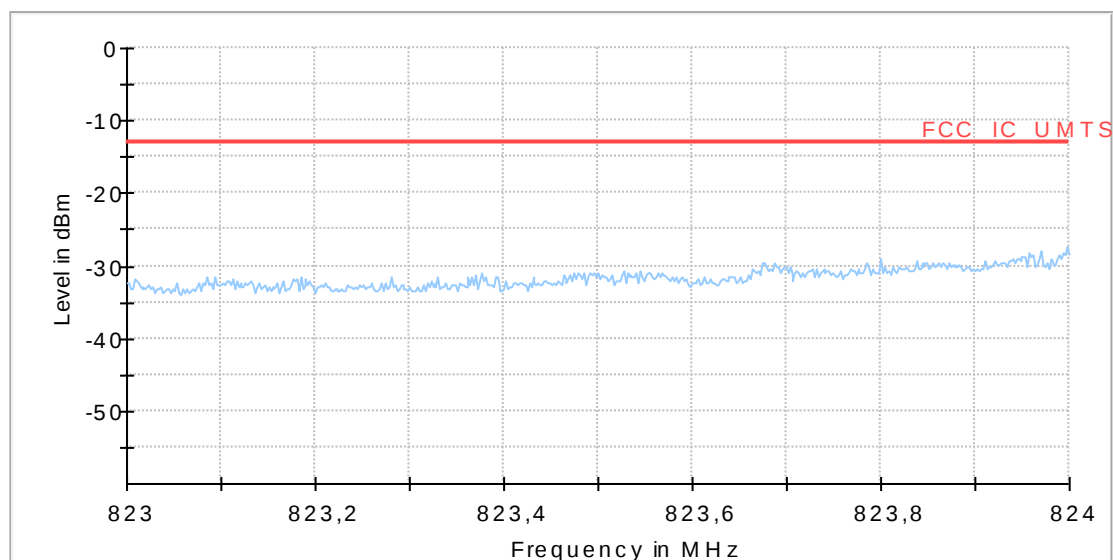
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4132
Environmental Conditions:	Humidity: 30%rH; Temperature: 24°C
Operator:	npe
Remarks:	

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
-----	-----
HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	USB Cable, Antenna T-AT314-BU
Power Supply:	AC Adaptor Ktec Model:KSA0151200125D5
Comments:	

Full Spectrum



9.02_BE_FDDV_ch4233

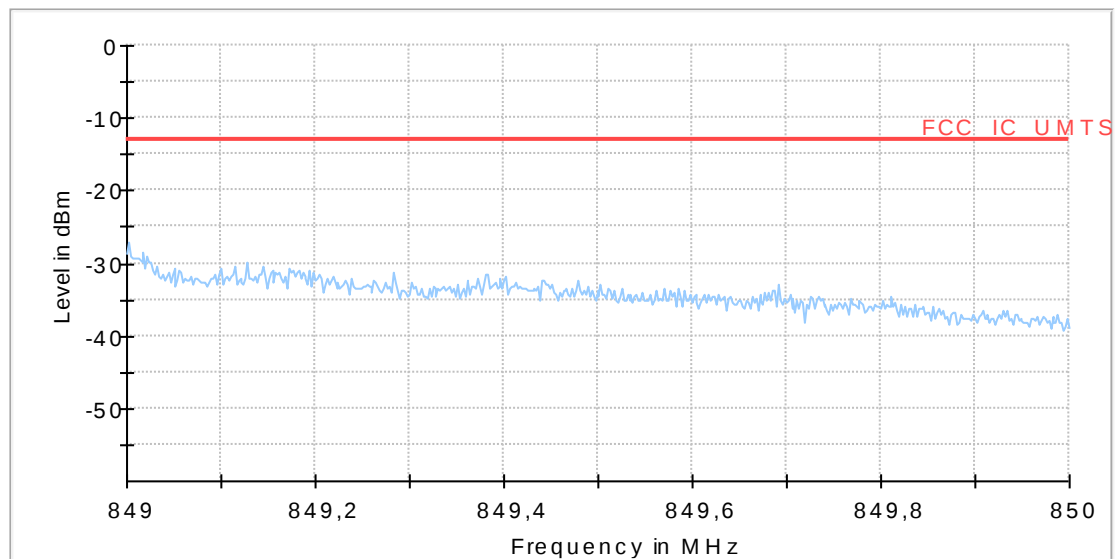
Common Information

Test Description:	Band-Edge low - Radiated Spurious Emissions UMTS FDDV
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR)
Test Standard:	FCC Part 22.917(a)
Operating Mode:	UE allocated channel 4233
Environmental Conditions:	Humidity: 37%rH; Temperature: 22°C
Operator:	npe/mzs
Remarks:	

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
-----	-----
HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	USB Cable, Antenna T-AT314-BU
Power Supply:	AC Adaptor Ktec Model:KSA0151200125D5
Comments:	

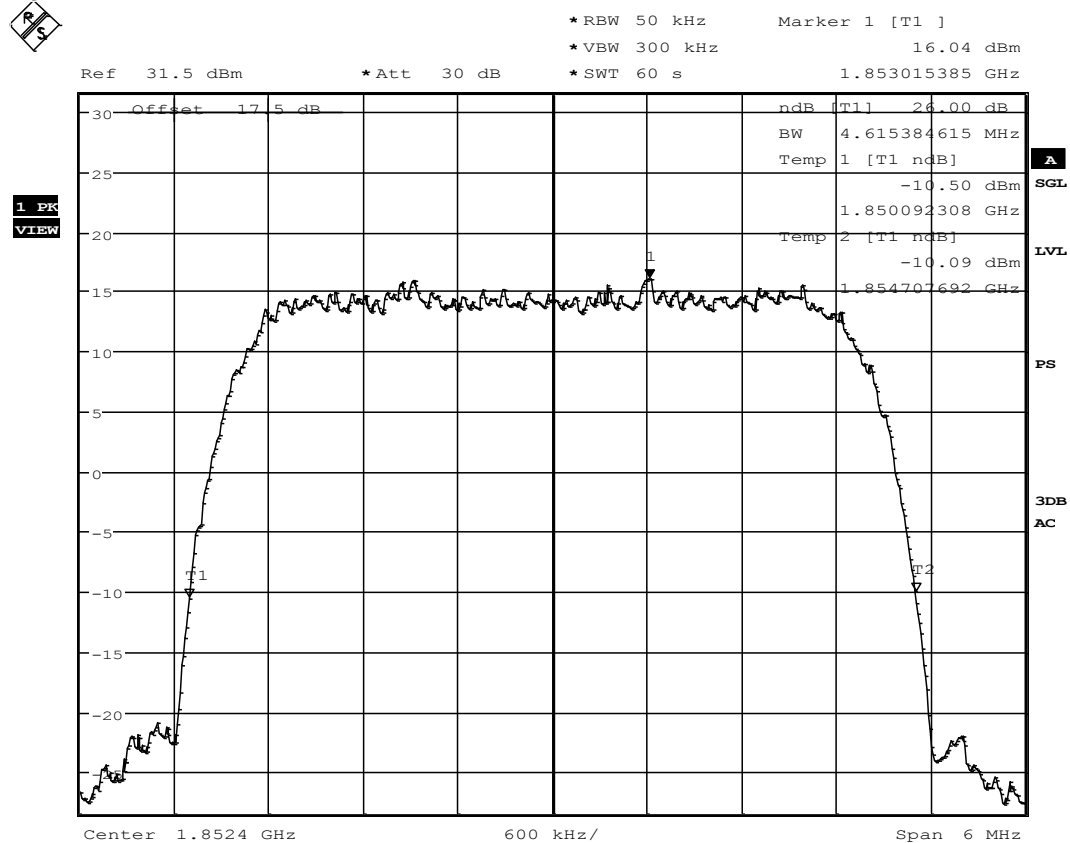
Full Spectrum



1.5. 26dBc Emission bandwidth

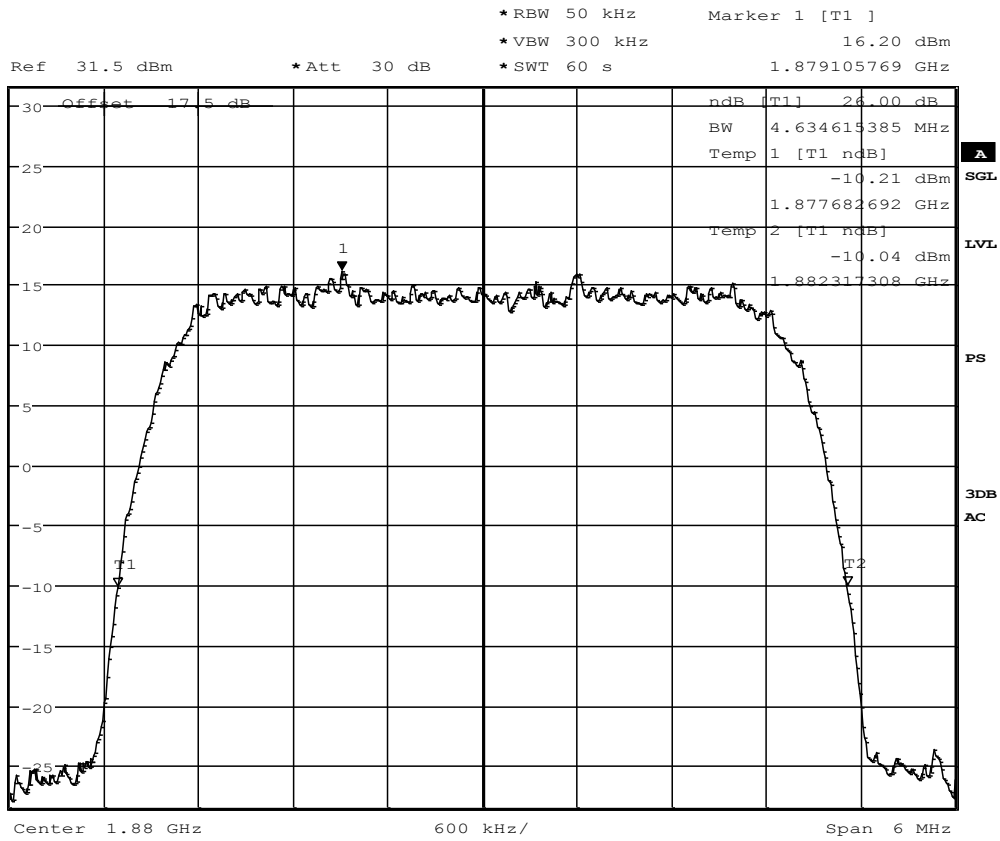
1.5.1. FDD II TX Mode

Channel 9262



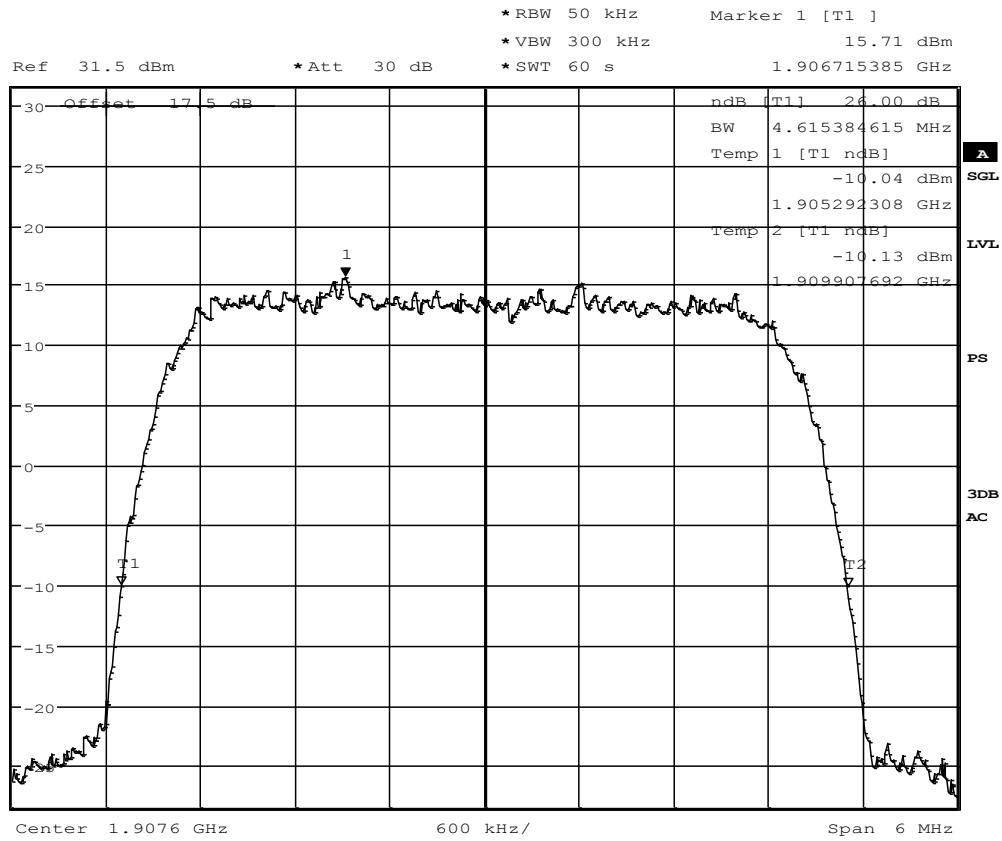
Date: 26.MAR.2015 14:14:30

Channel 9400

**1 PK**
MAXH

Date: 26.MAR.2015 14:16:32

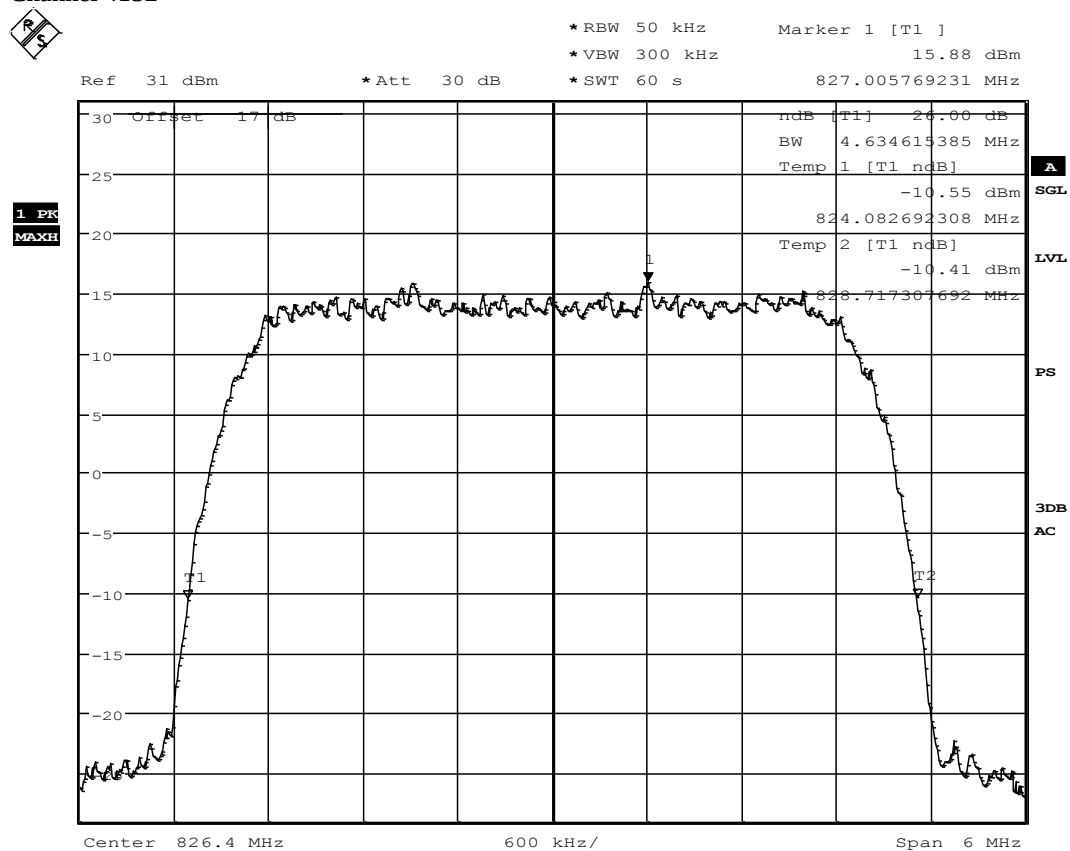
Channel 9538

**1 PK**
MAXH

Date: 26.MAR.2015 14:19:27

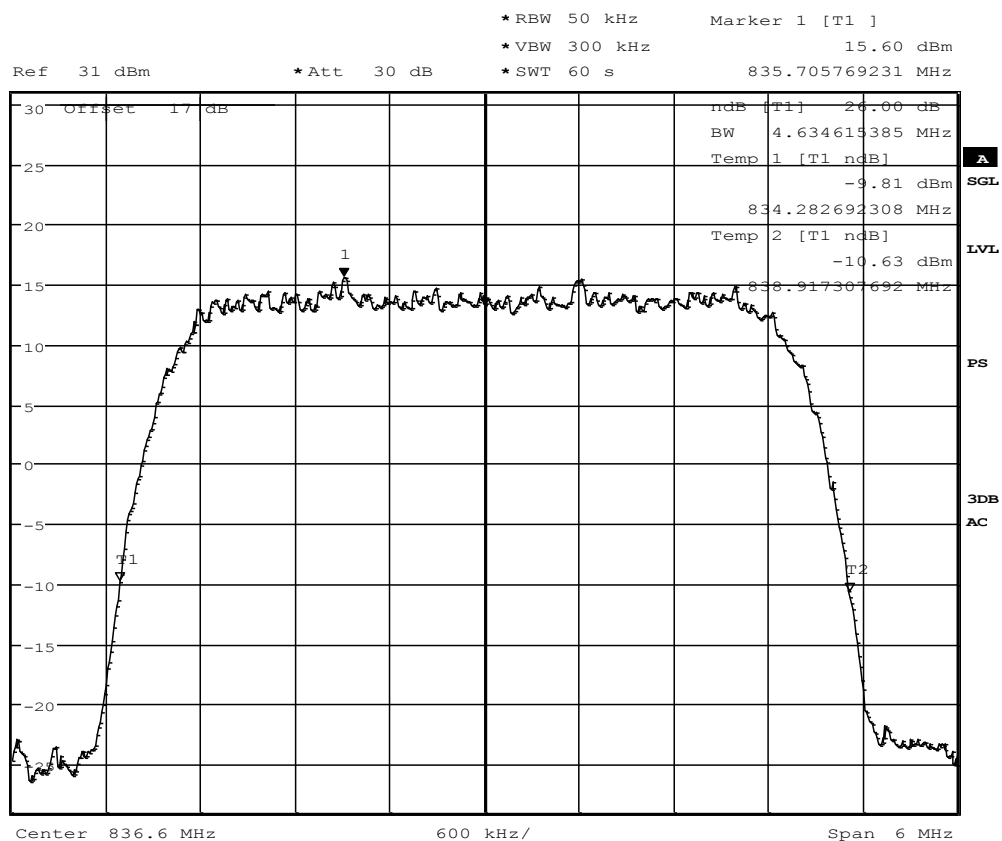
1.5.2. FDD V TX Mode

Channel 4132



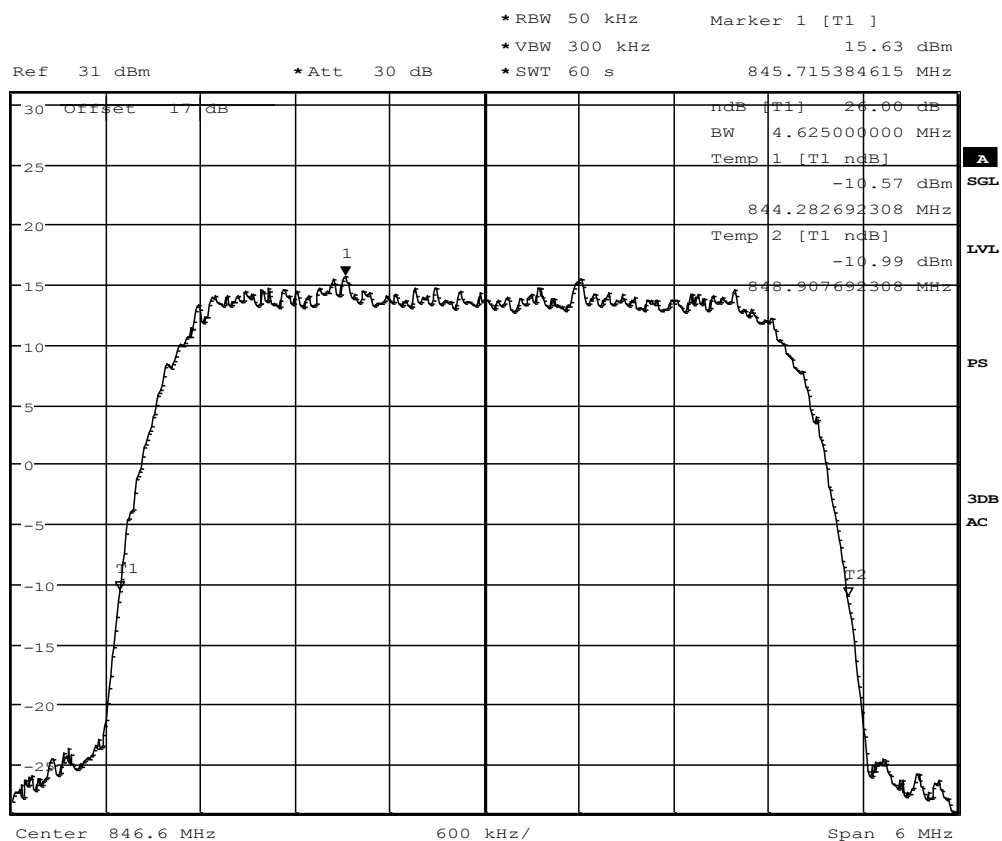
Date: 26.MAR.2015 14:06:29

Channel 4183

1 PK
MAXH

Date: 26.MAR.2015 14:09:23

Channel 4233

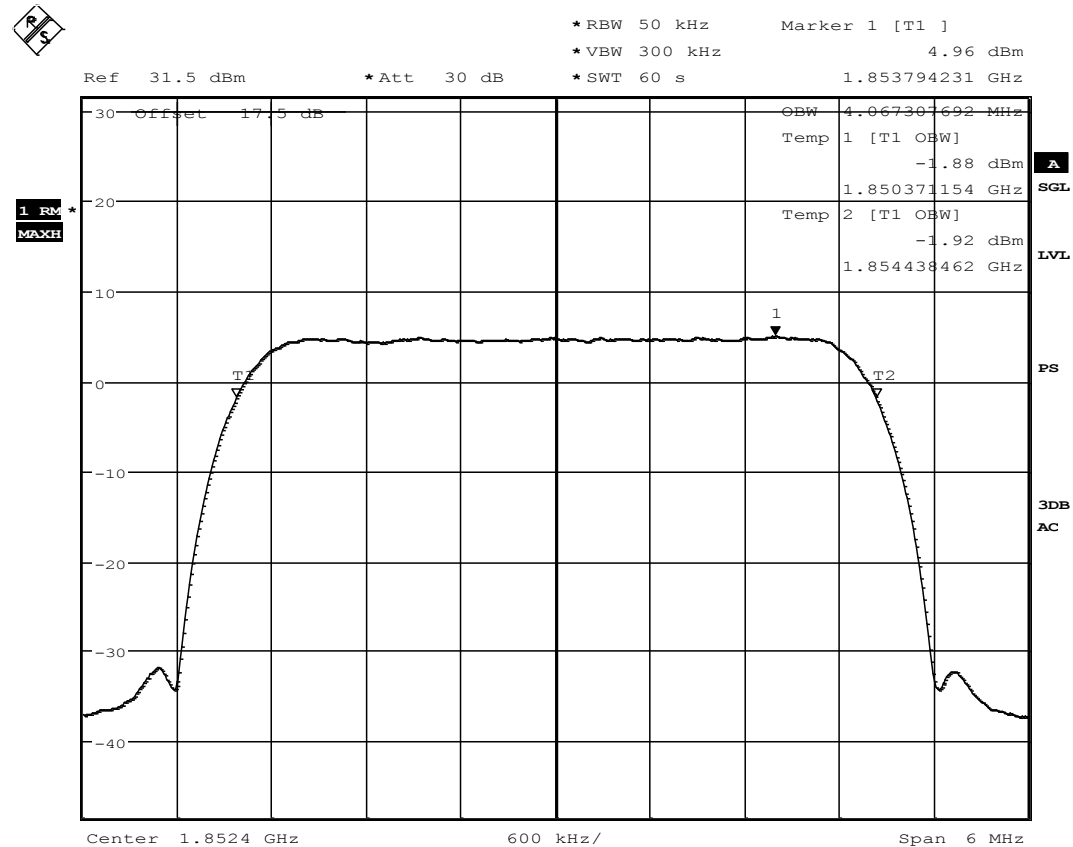
1 PK
VIEW

Date: 26.MAR.2015 14:12:21

1.6. 99% Occupied bandwidth

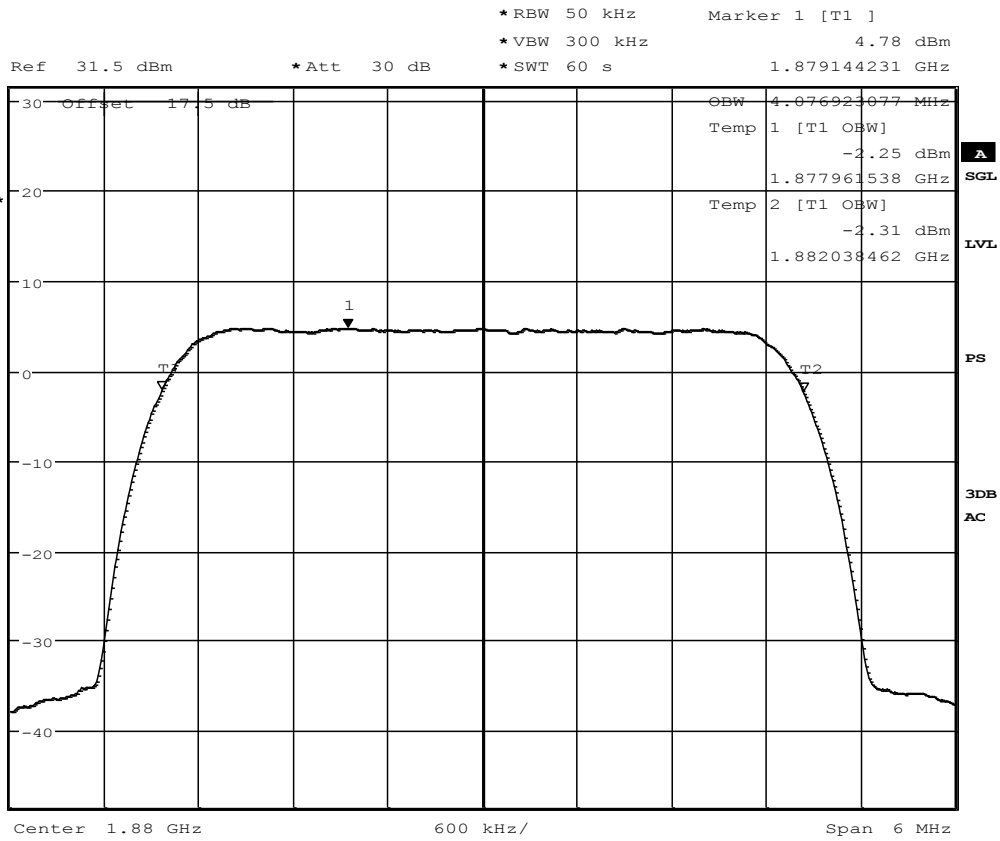
1.6.1. FDD II TX Mode

Channel 9262



Date: 26.MAR.2015 14:30:34

Channel 9400

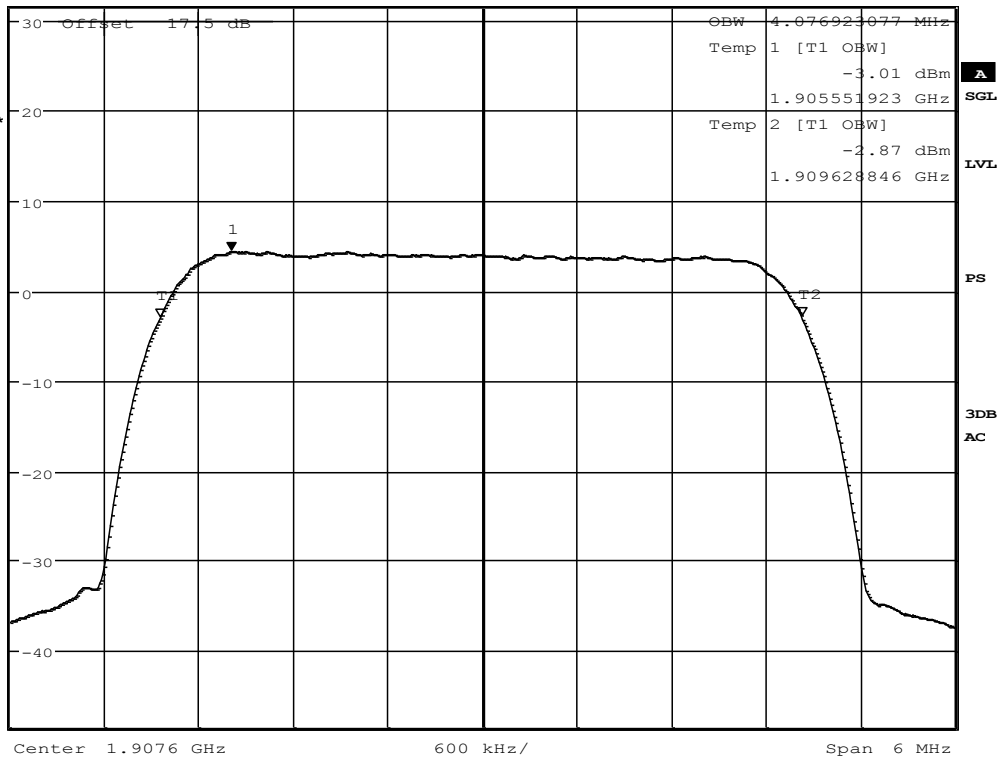
1 RM
MAXH

Date: 26.MAR.2015 14:26:46

Channel 9538

1 RM
VIEW

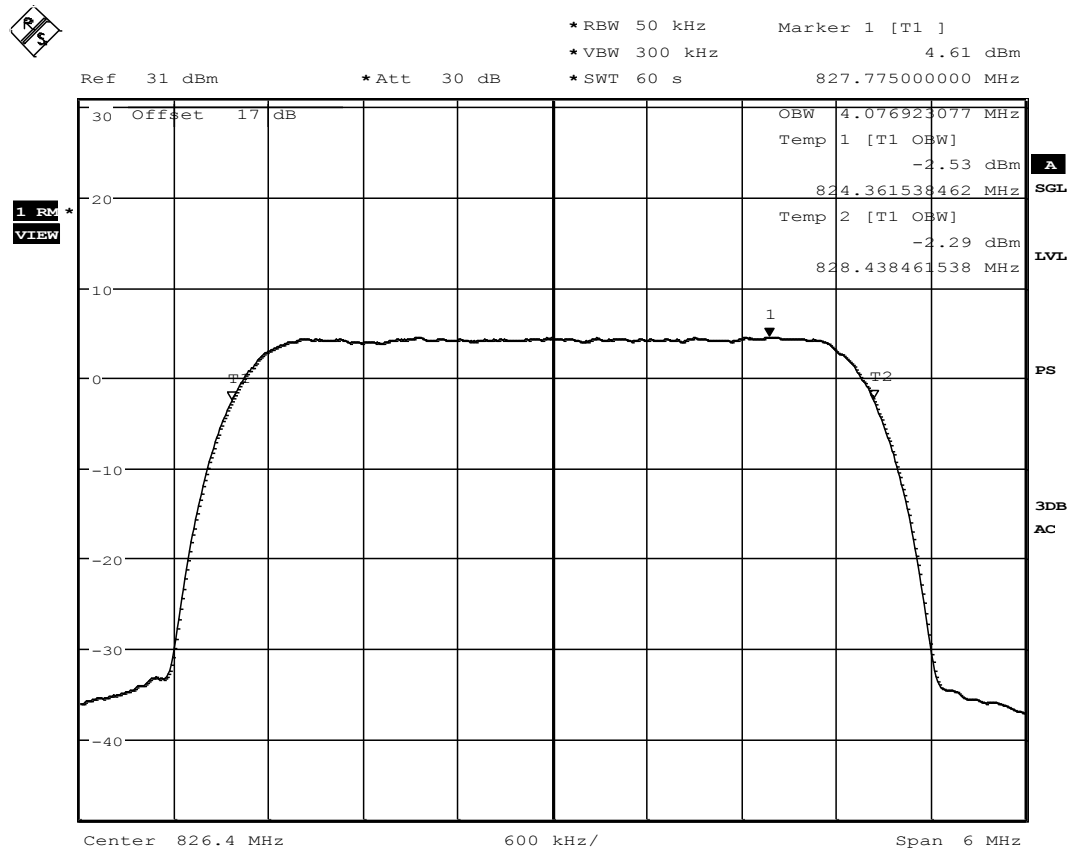
*RBW 50 kHz Marker 1 [T1]
*VBW 300 kHz 4.38 dBm
Ref 31.5 dBm *Att 30 dB *SWT 60 s 1.906003846 GHz



Date: 26.MAR.2015 14:28:37

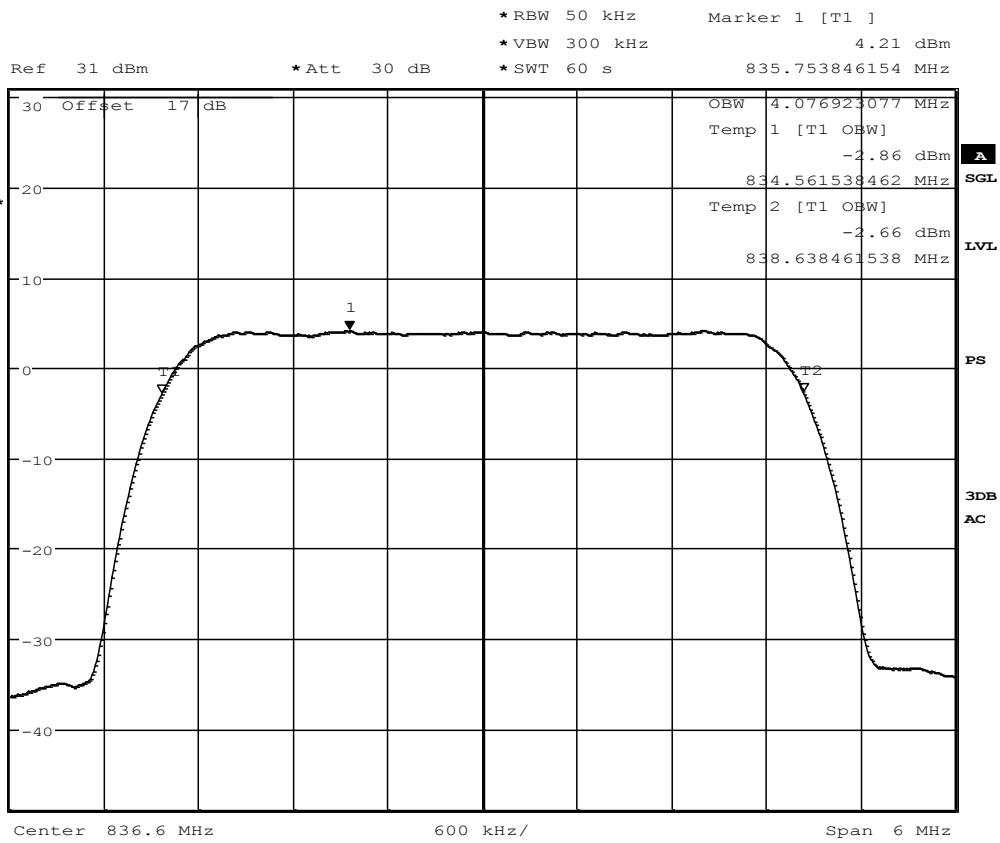
1.6.2. FDD V TX Mode

Channel 4132



Date: 26.MAR.2015 14:34:05

Channel 4183

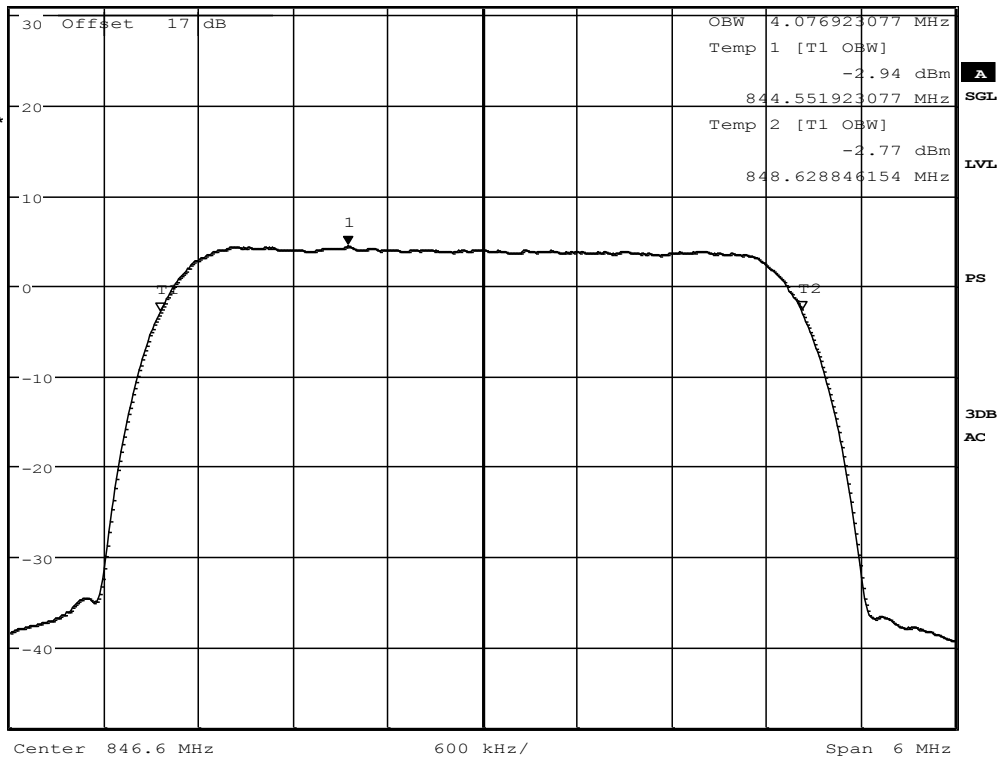
1 RM
VIEW

Date: 26.MAR.2015 14:36:15

Channel 4233

1 RM
MAXH

Ref 31 dBm *Att 30 dB *RBW 50 kHz Marker 1 [T1]
*VBW 300 kHz 4.45 dBm
*SWT 60 s 845.744230769 MHz



Date: 26.MAR.2015 14:38:02

1.7. Spurious emissions conducted on FDD Band II

Diagram No.: 36.60_RSE_Ch9262_RMC_Sweep1

Common Information

Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22&24&27
SW-Version:	EMC32 V8.53.0
Operation mode:	TX - UMTS B2 (RMC), Channel 9262
Channel Bandwidth	--
Operator	npe
Comment:	--

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
-----	-----
HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

Fula2_FCC_24_FDD_Scan1_9kHz_30MHz

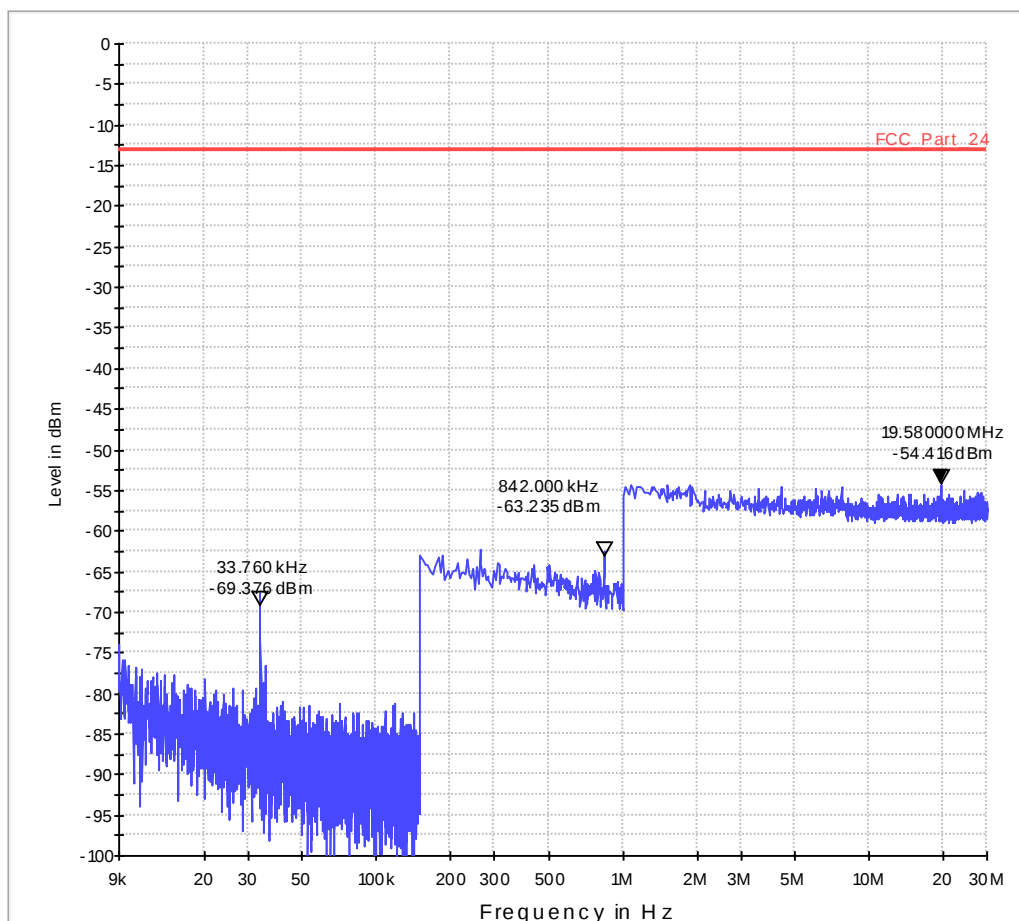


Diagram No.: 36.61_RSE_Ch9262_RMC_Sweep2

Common Information

Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22&24&27
SW-Version:	EMC32 V8.53.0
Operation mode:	TX - UMTS B2 (RMC), Channel 9262
Channel Bandwidth	--
Operator	npe
Comment:	--

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
-----	-----
HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

Fula2_FCC_24_FDD_Scan2_30MHz_19.5GHz

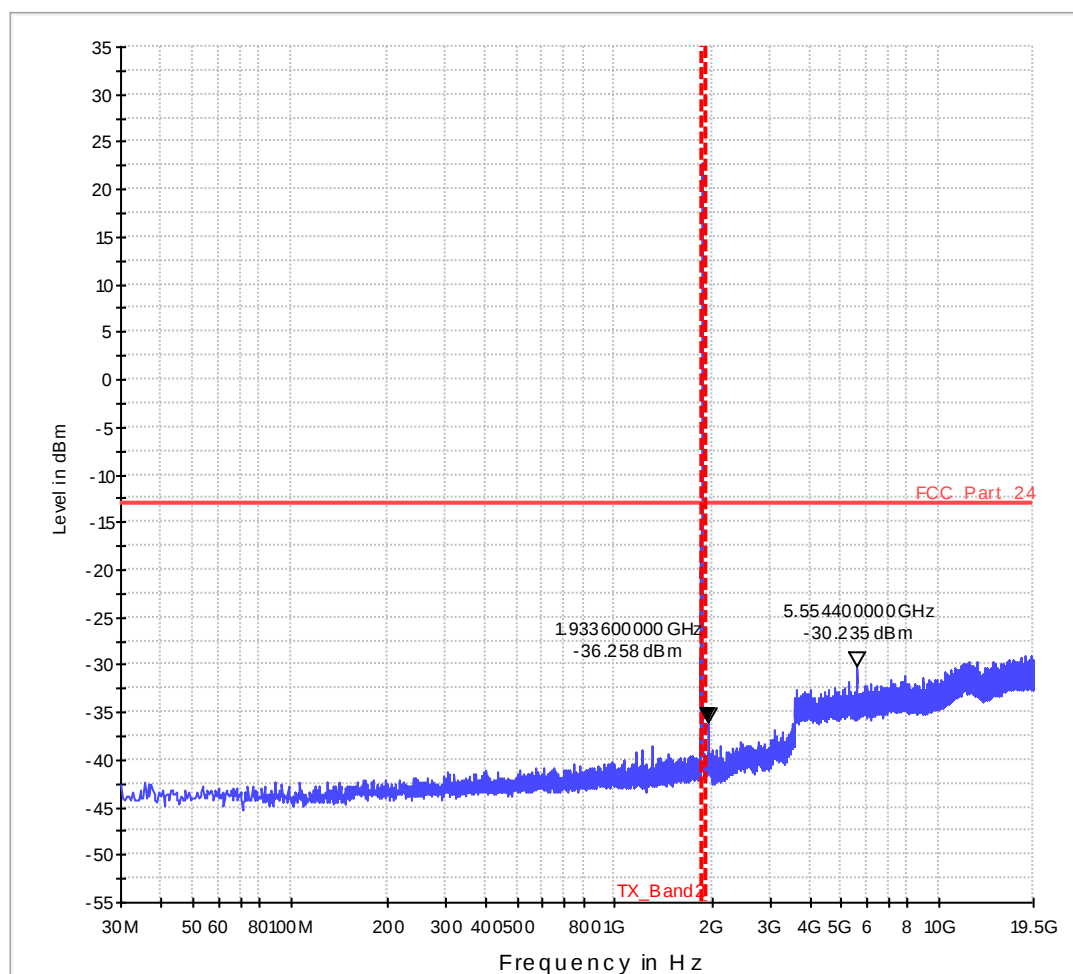


Diagram No.: 36.62_RSE_Ch9400_RMC_Sweep1

Common Information

Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22&24&27
SW-Version:	EMC32 V8.53.0
Operation mode:	TX - UMTS B2 (RMC), Channel 9400
Channel Bandwidth	--
Operator	npe
Comment:	--

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

Fula2_FCC_24_FDD_Scan1_9kHz_30MHz

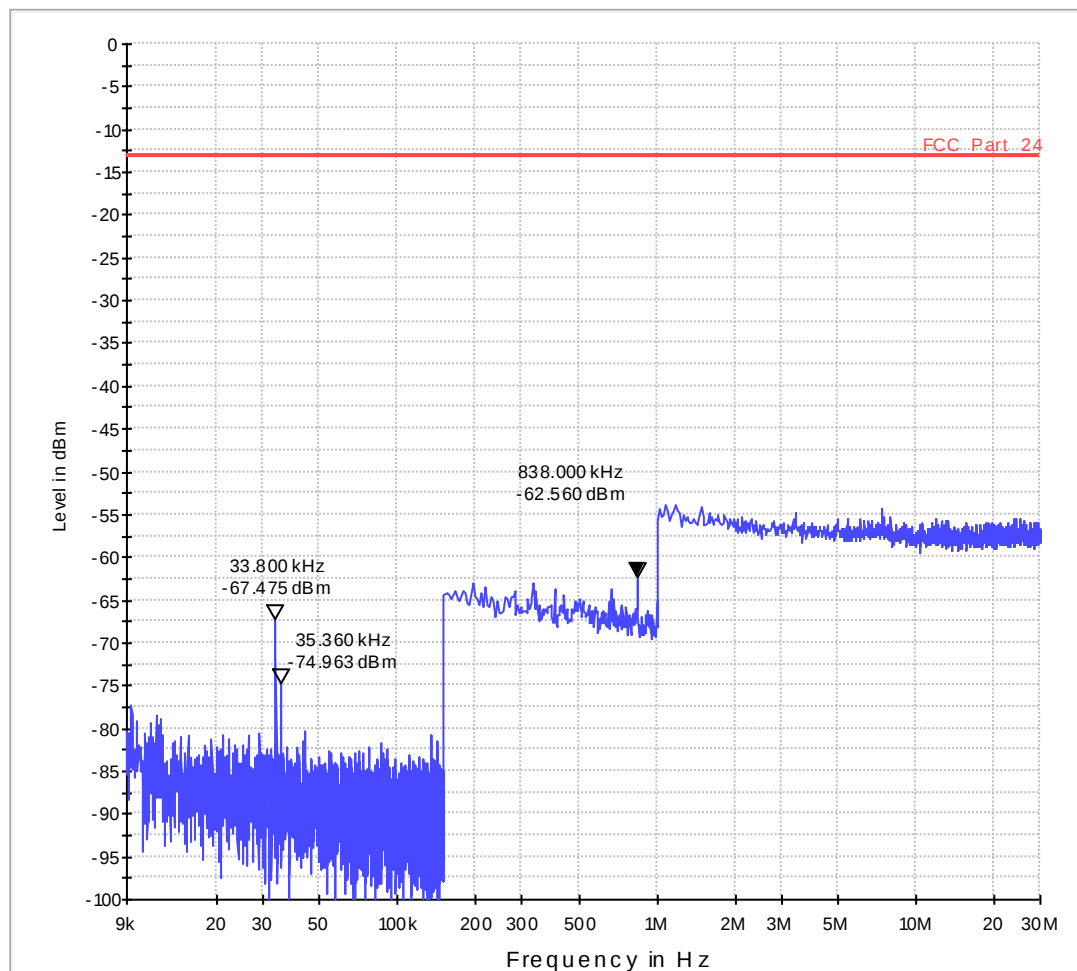


Diagram No.: 36.63_RSE_Ch9400_RMC_Sweep2**Common Information**

Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22&24&27
SW-Version:	EMC32 V8.53.0
Operation mode:	TX - UMTS B2 (RMC), Channel 9400
Channel Bandwidth	--
Operator	npe
Comment:	--

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d

HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

Fula2_FCC_24_FDD_Scan2_30MHz_19.5GHz

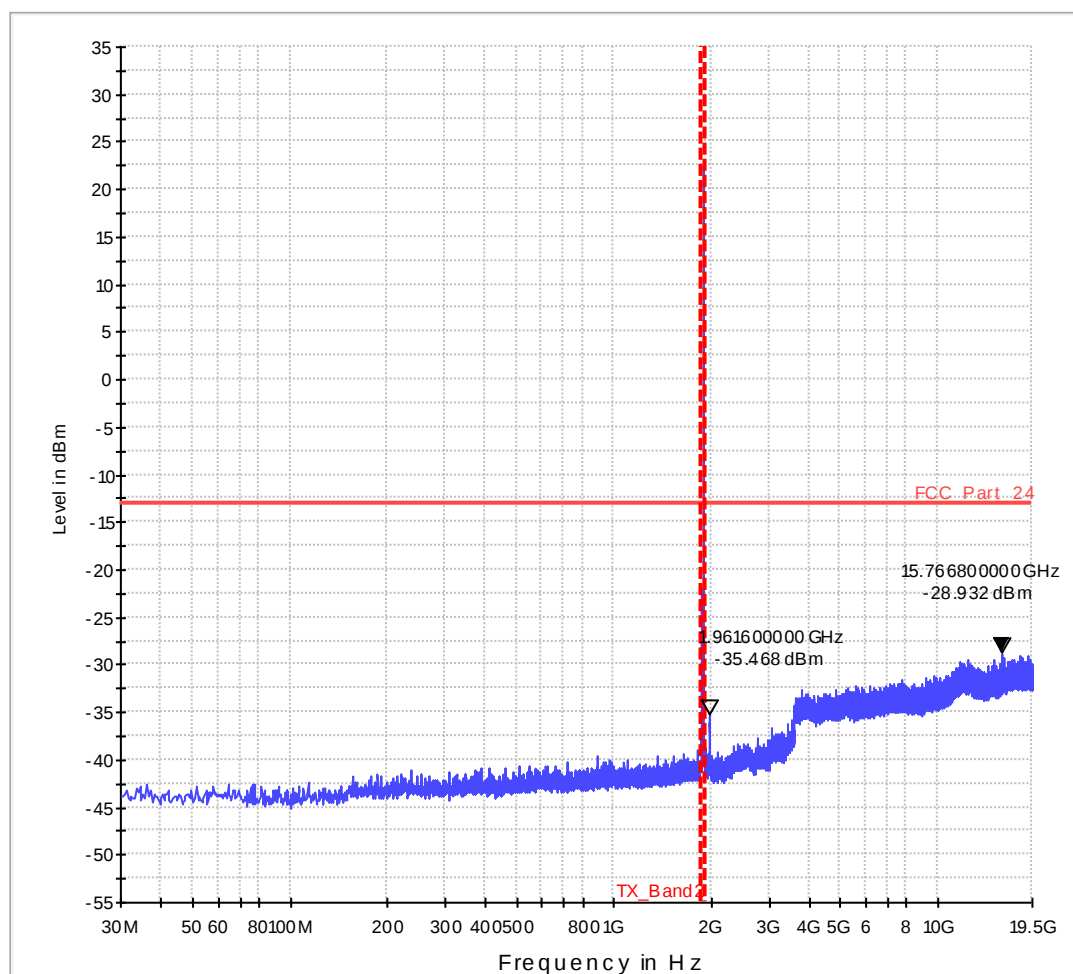


Diagram No.: 36.64_RSE_Ch9538_RMC_Sweep1**Common Information**

Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22&24&27
SW-Version:	EMC32 V8.53.0
Operation mode:	TX - UMTS B2 (RMC), Channel 9538
Channel Bandwidth	--
Operator	npe
Comment:	--

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d

HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

Fula2_FCC_24_FDD_Scan1_9kHz_30MHz

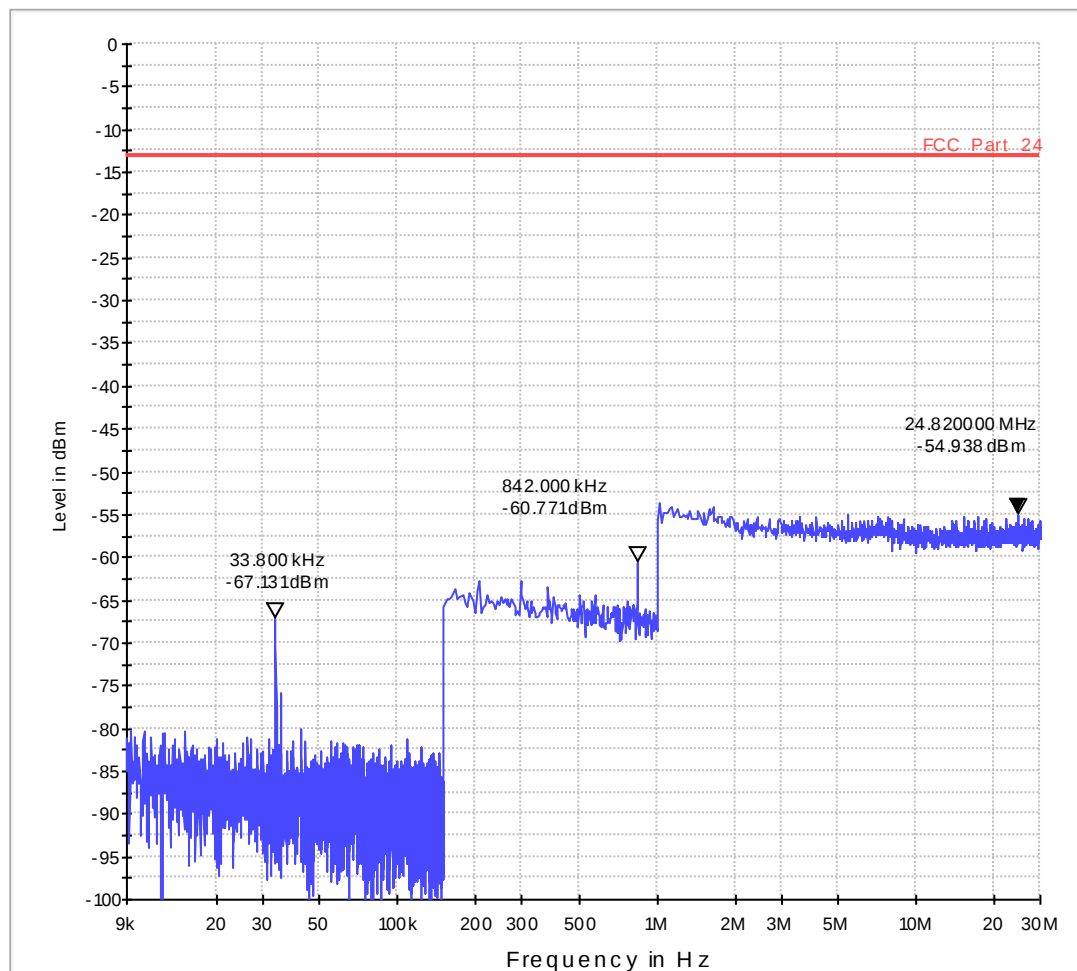


Diagram No.: 36.65_RSE_Ch9538_RMC_Sweep2**Common Information**

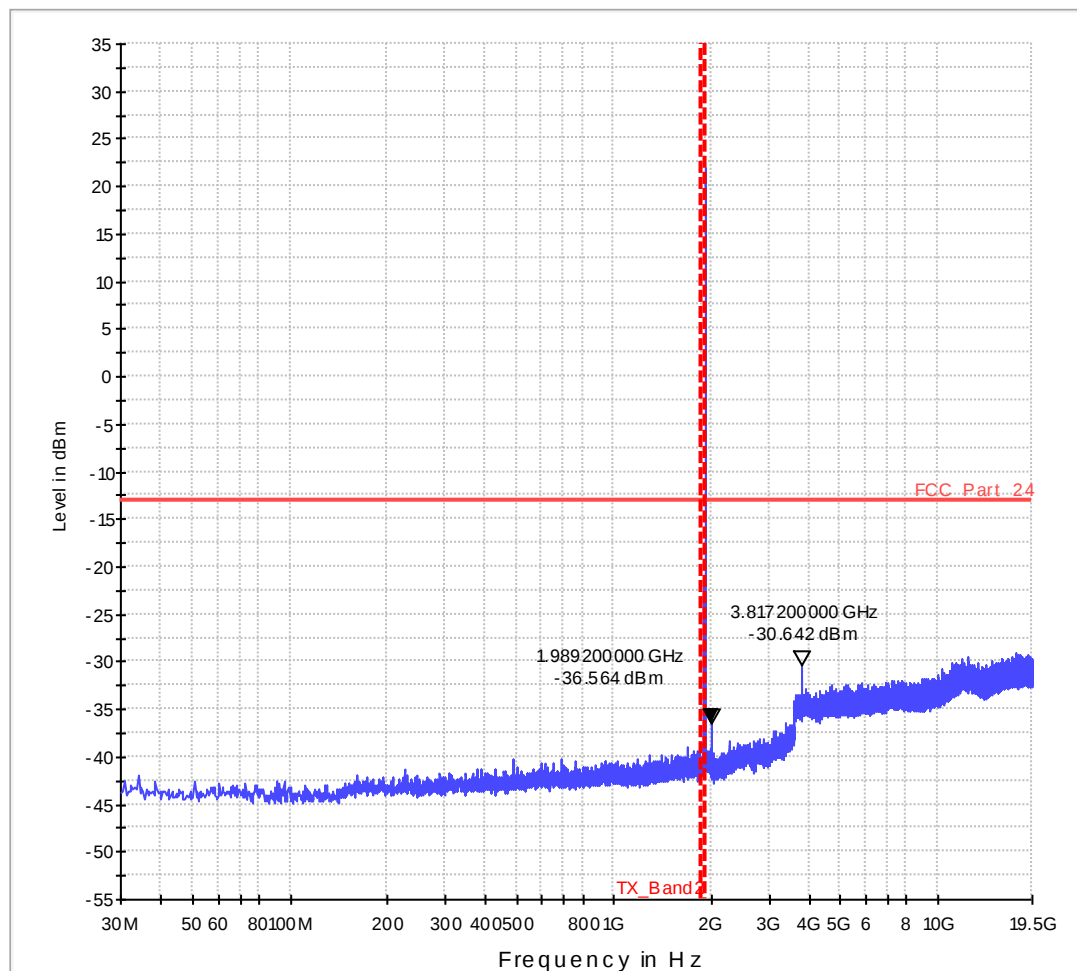
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22&24&27
SW-Version:	EMC32 V8.53.0
Operation mode:	TX - UMTS B2 (RMC), Channel 9538
Channel Bandwidth	--
Operator	npe
Comment:	--

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d

HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

Fula2_FCC_24_FDD_Scan2_30MHz_19.5GHz



1.8. Spurious emissions conducted on FDD Band V

Diagram No.: 36.40_RSE_Ch4132_RMC_Sweep1

Common Information

Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22&24&27
SW-Version:	EMC32 V8.53.0
Operation mode:	TX - UMTS B5 (RMC), Channel 4132
Channel Bandwidth	--
Operator	npe
Comment:	--

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
-----	-----
HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

Fula2_FCC_22_Scan1_9kHz_30MHz

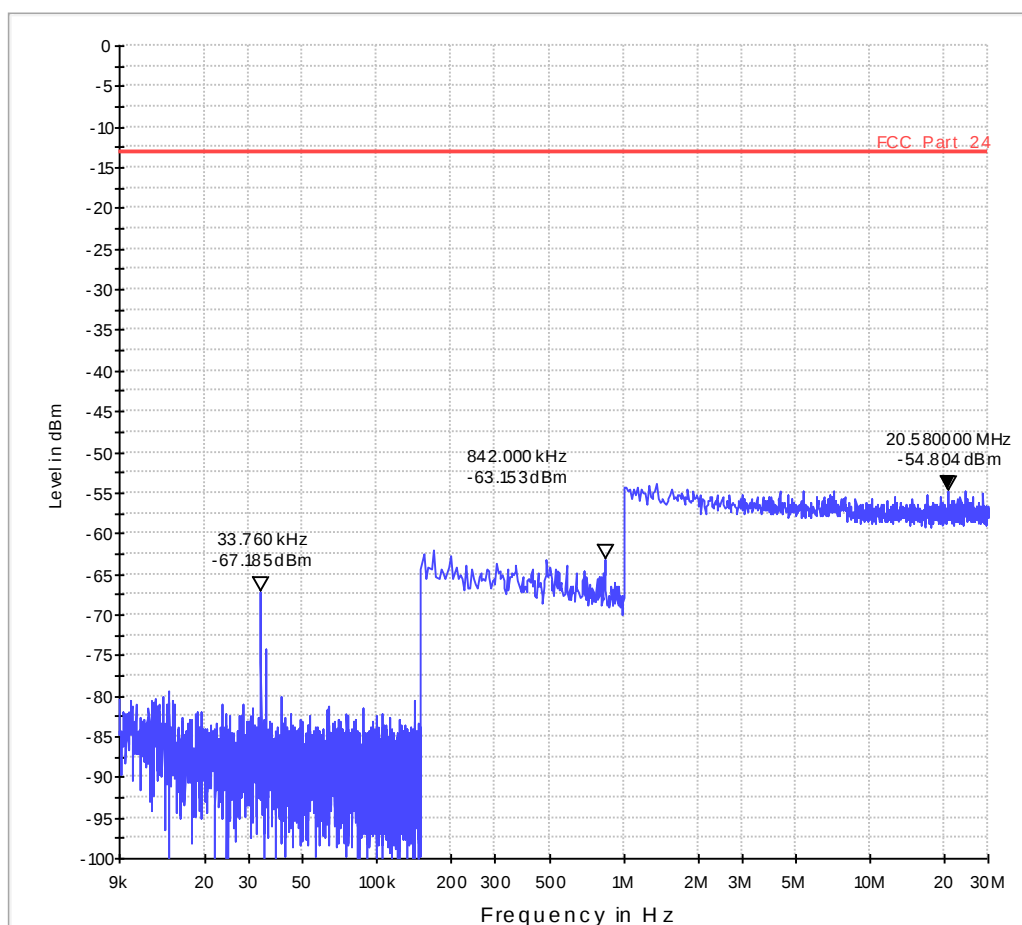


Diagram No.: 36.41_RSE_Ch4132_RMC_Sweep2**Common Information**

Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22&24&27
SW-Version:	EMC32 V8.53.0
Operation mode:	TX - UMTS B5 (RMC), Channel 4132
Channel Bandwidth	--
Operator	npe
Comment:	--

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d

HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

Fula2_FCC_22_Scan2_30MHz_9GHz

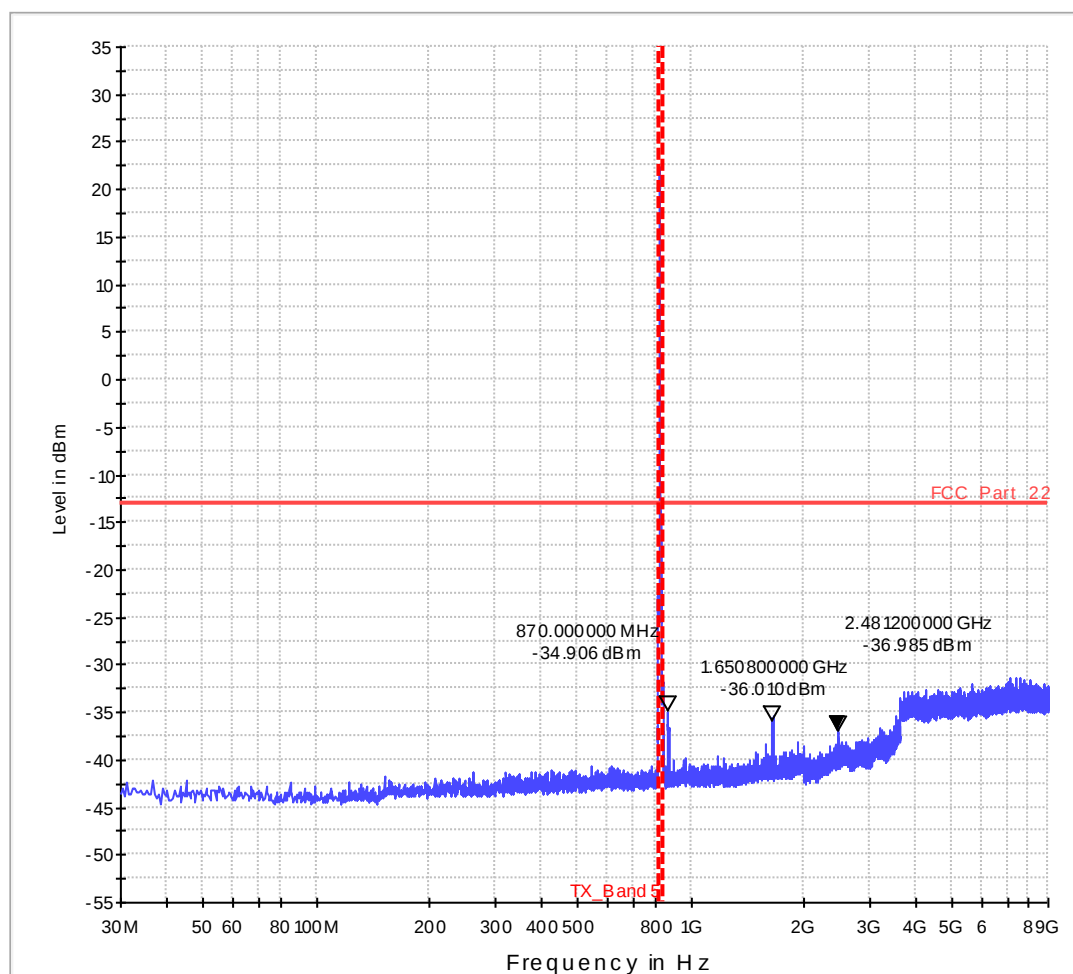


Diagram No.: 36.42_RSE_Ch4183_RMC_Sweep1**Common Information**

Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22&24&27
SW-Version:	EMC32 V8.53.0
Operation mode:	TX - UMTS B5 (RMC), Channel 4183
Channel Bandwidth	--
Operator	npe
Comment:	--

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d

HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

Fula2_FCC_22_Scan1_9kHz_30MHz

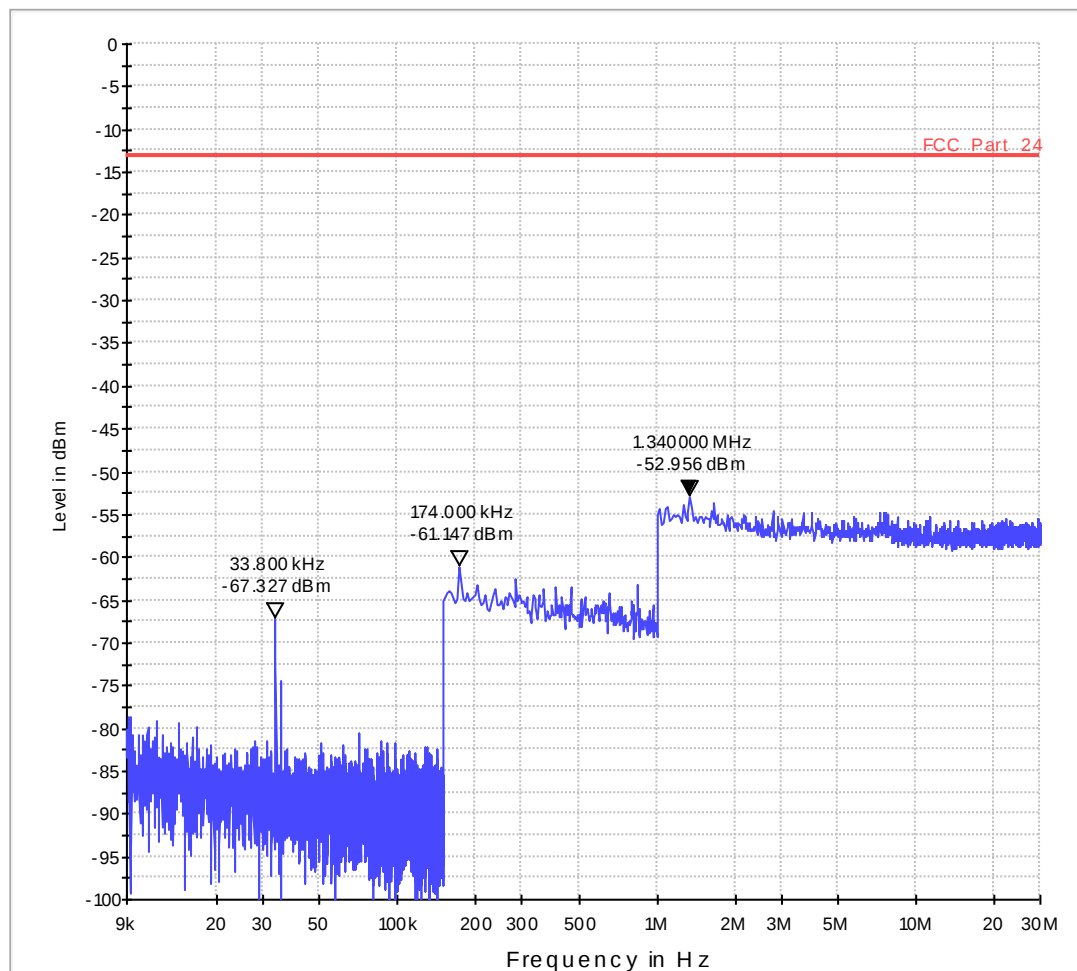


Diagram No.: 36.43_RSE_Ch4183_RMC_Sweep2

Common Information

Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22&24&27
SW-Version:	EMC32 V8.53.0
Operation mode:	TX - UMTS B5 (RMC), Channel 4183
Channel Bandwidth	--
Operator	npe
Comment:	--

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
-----	-----
HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

Fula2_FCC_22_Scan2_30MHz_9GHz

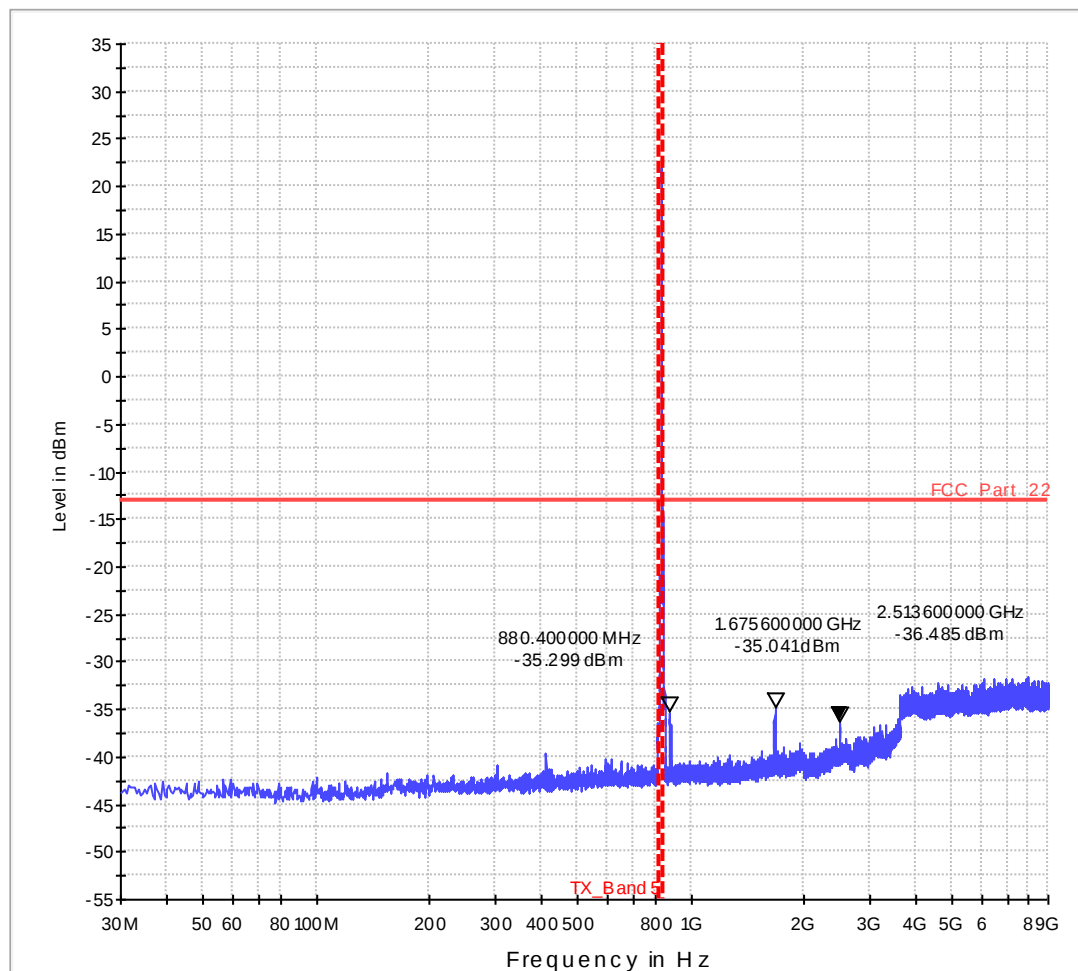


Diagram No.: 36.44_RSE_Ch4233_RMC_Sweep1**Common Information**

Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22&24&27
SW-Version:	EMC32 V8.53.0
Operation mode:	TX - UMTS B5 (RMC), Channel 4233
Channel Bandwidth	--
Operator	npe
Comment:	--

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d

HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

Fula2_FCC_22_Scan1_9kHz_30MHz

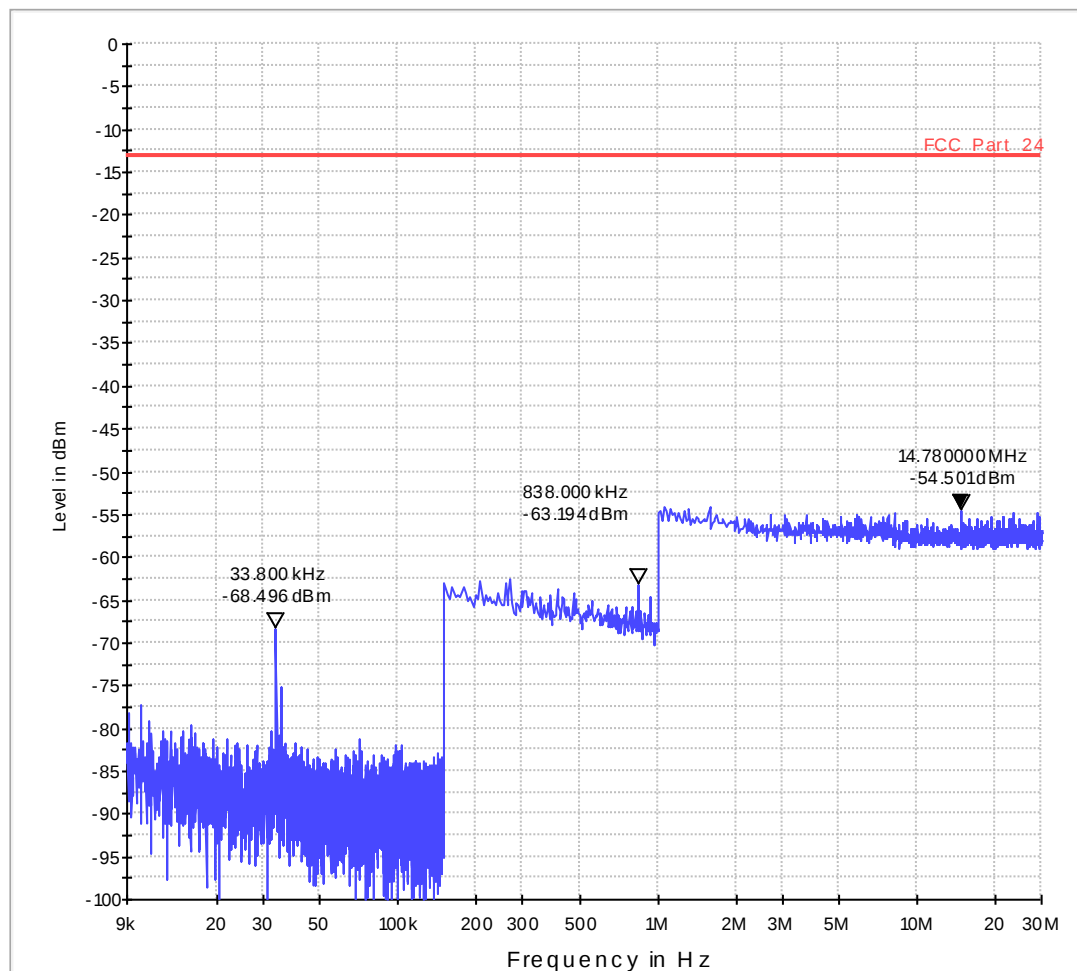


Diagram No.: 36.45_RSE_Ch4233_RMC_Sweep2

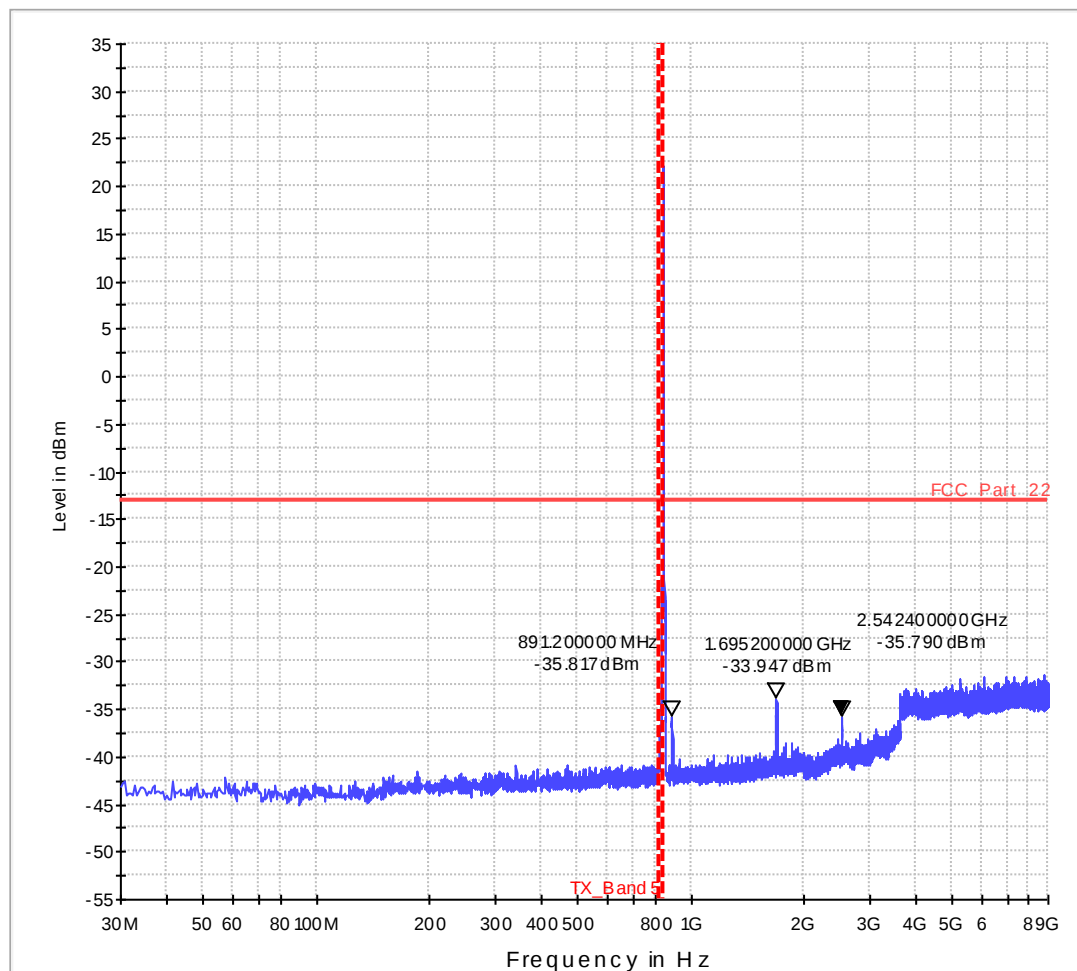
Common Information

Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22&24&27
SW-Version:	EMC32 V8.53.0
Operation mode:	TX - UMTS B5 (RMC), Channel 4233
Channel Bandwidth	--
Operator	npe
Comment:	--

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
-----	-----
HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

Fula2_FCC_22_Scan2_30MHz_9GHz



1.9. Conducted emissions on FDD Band II band-edge

Diagram No.: 37.60_BE_Ch9262_RMC_PK

Common Information

Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22&24&27
SW-Version:	EMC32 V8.53.0
Operation mode:	TX - UMTS B2 (RMC), Channel 9262
Channel Bandwidth	--
Operator	npe
Comment:	--

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
-----	-----
HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

Fula2_FCC_24_BE_LOW_9262

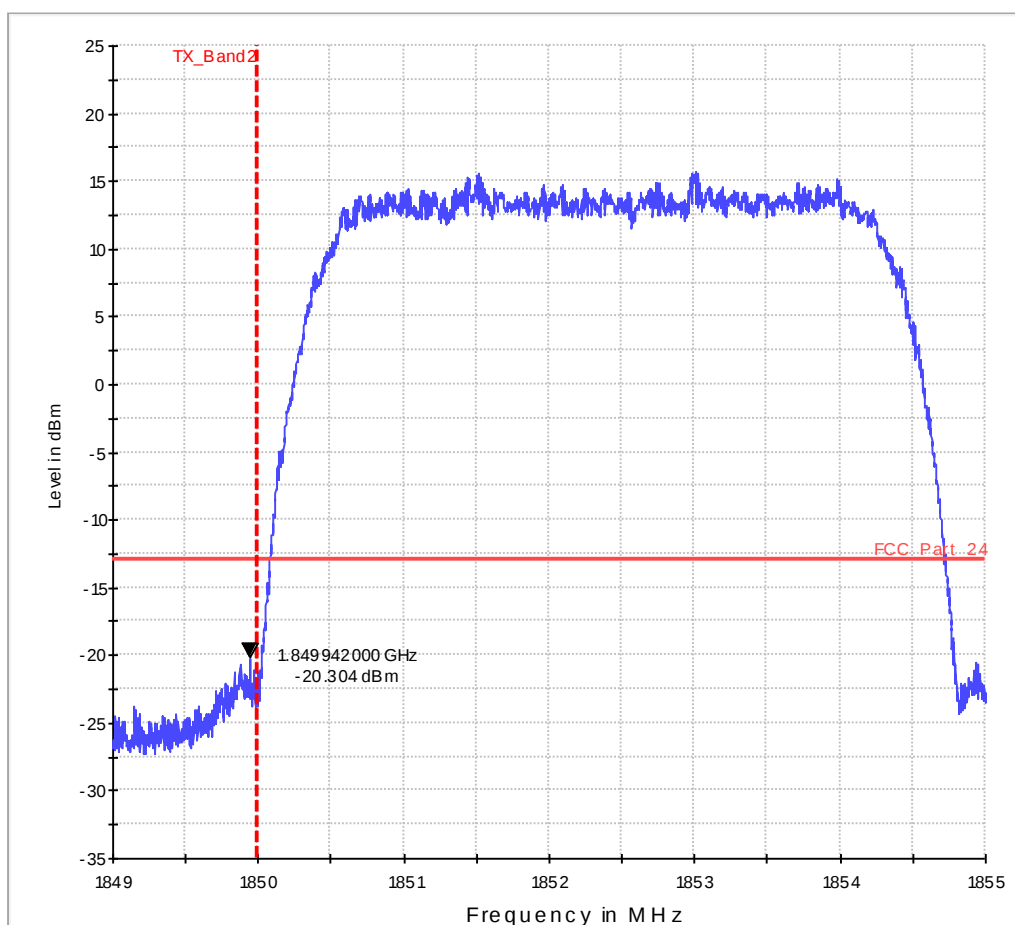


Diagram No.: 37.61_BE_Ch9538_RMC_PK**Common Information**

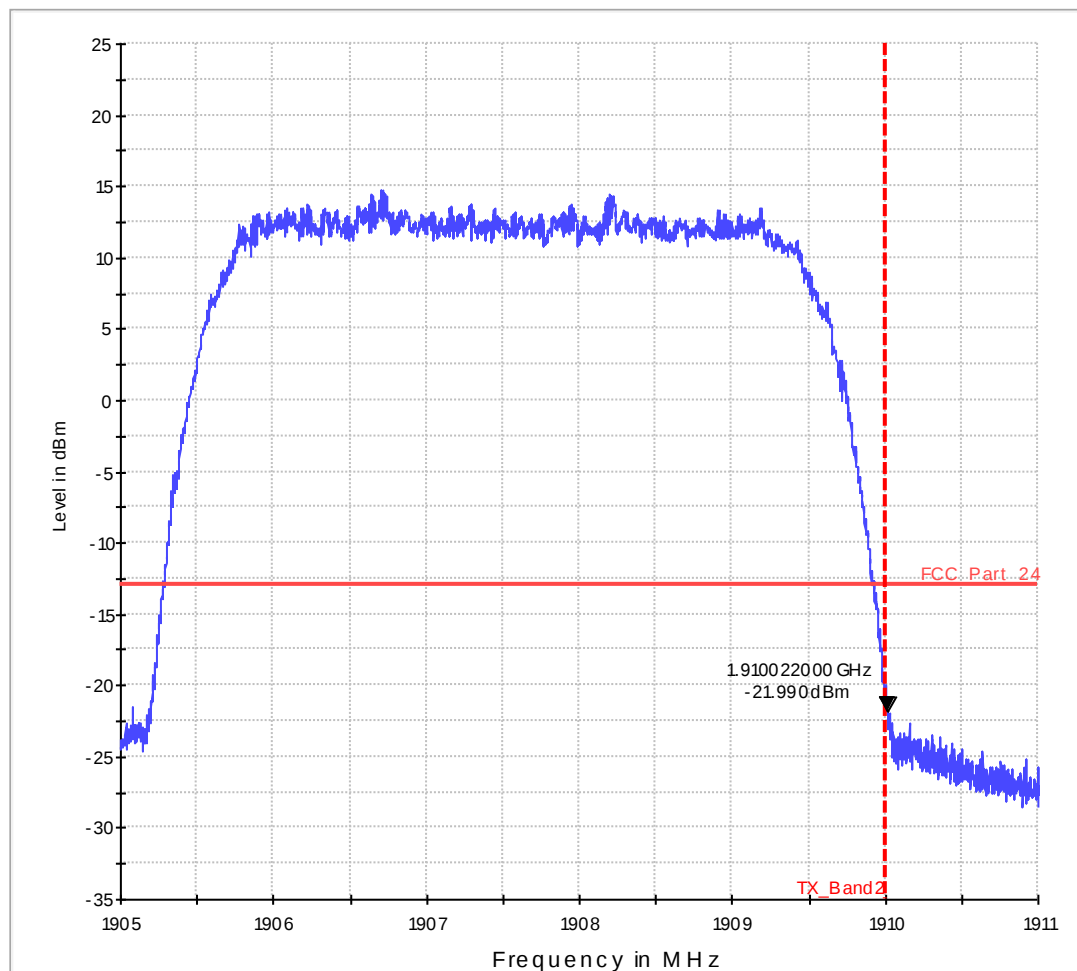
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22&24&27
SW-Version:	EMC32 V8.53.0
Operation mode:	TX - UMTS B2 (RMC), Channel 9538
Channel Bandwidth	--
Operator	npe
Comment:	--

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d

HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

Fula2_FCC_24_BE_High_9538



1.10. Conducted emissions on FDD Band V band-edge

Diagram No.: 37.40_BE_Ch4132_RMC_PK

Common Information

Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22&24&27
SW-Version:	EMC32 V8.53.0
Operation mode:	TX - UMTS B5 (RMC), Channel 4132
Channel Bandwidth	--
Operator	npe
Comment:	--

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
-----	-----
HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

Fula2_FCC_22_BE_LOW_4132

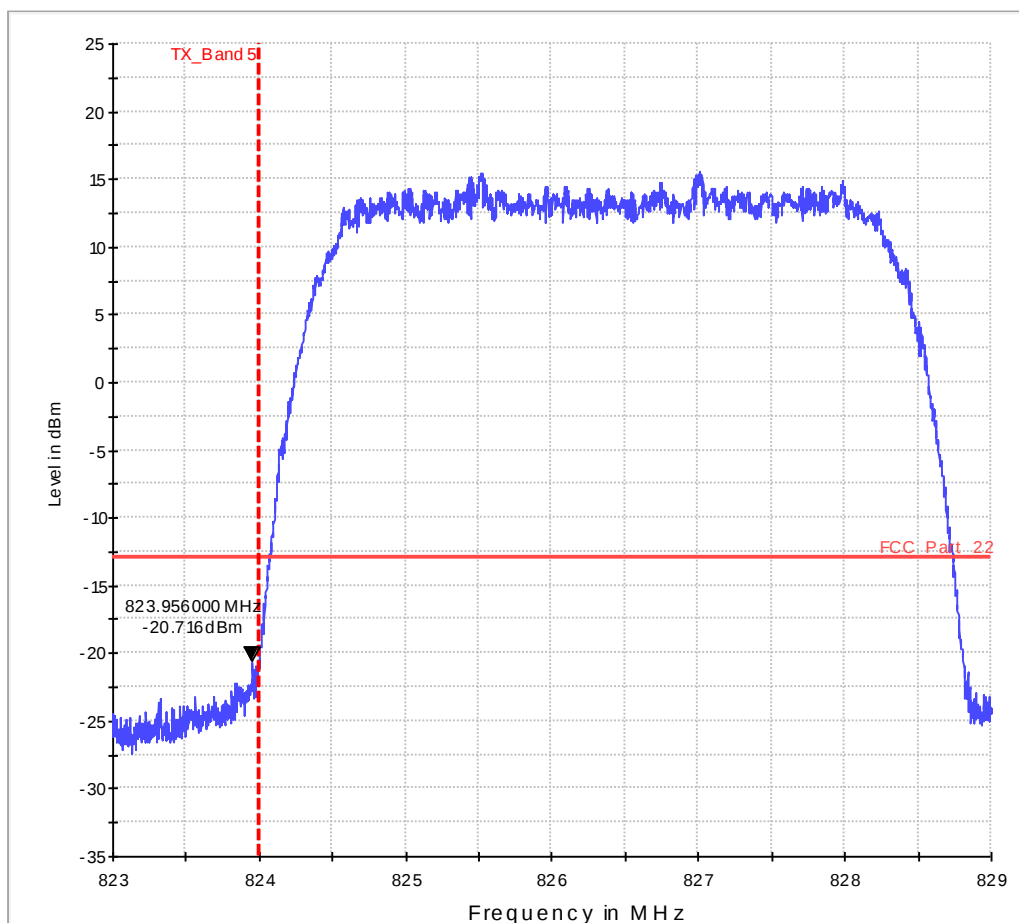


Diagram No.: 37.41_BE_Ch4233_RMC_PK**Common Information**

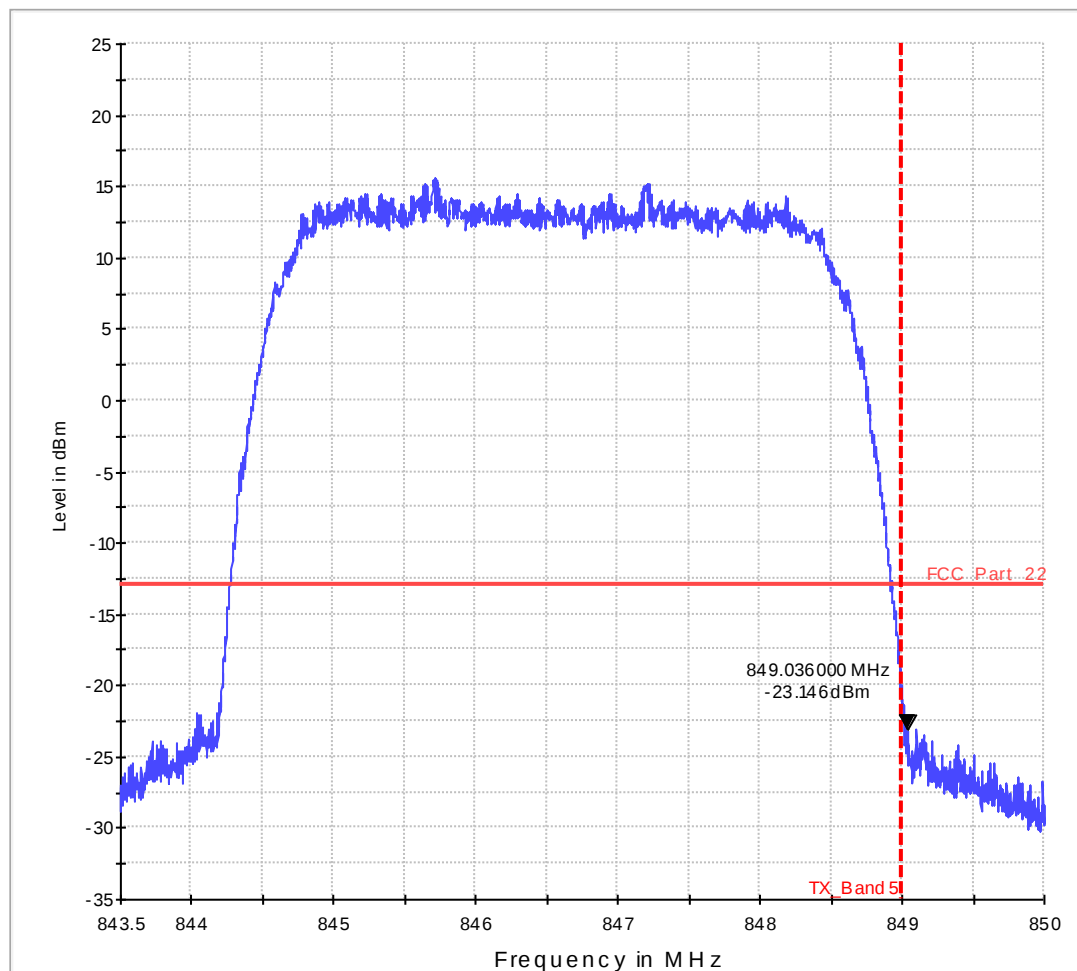
Test Description:	TX Spurious Emission Conducted §2.1051
Test Site:	Radio laboratory 2
Test Standard:	FCC Part 22&24&27
SW-Version:	EMC32 V8.53.0
Operation mode:	TX - UMTS B5 (RMC), Channel 4233
Channel Bandwidth	--
Operator	npe
Comment:	--

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d

HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	
Power Supply:	

Fula2_FCC_22_BE_High_4233



1.11. Magnetic field strength measurements

1.11.1. FDD Band 2

Diagram No. 2.01_Ch9262_FDDII

Test description:	Date: 05.05.2015 Page 1 of 1
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V8.51.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
	FCC 15.205 § 15.209; RSS-Gen: Issue 4, ANSI C63.10-2013
Operator:	HLA
Operating conditions:	WCDMA FDDII RMC TX, channel : 9262
Power during tests:	3,8V DC
Comment 1:	Channel low

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
-----	-----
HW Version:	A
SW Version:	stream UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	USB Cable, Antenna T-AT314-BU
Power Supply:	

FCC15.209_ANSI63_10_2013

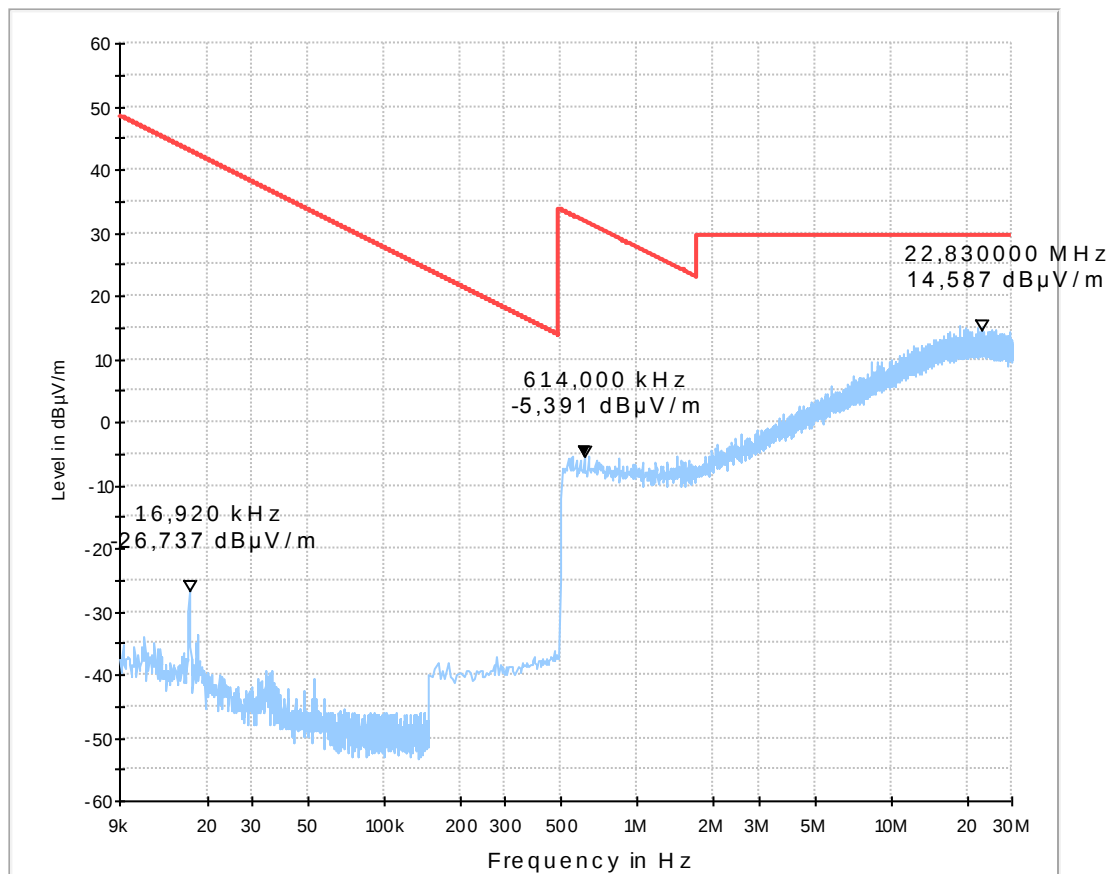


Diagram No. 2.02_Ch9400_FDDII

Date:	05.05.2015	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 4, ANSI C63.10-2013	
Operator:	XXX	
Operating conditions:	TX-on	
Power during tests:	12V DC, 110V/60Hz, full loaded batteries	
Comment 1:	Channel low/middle/high	
Comment 2:		

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
HW Version:	A
SW Version:	stream UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	USB Cable, Antenna T-AT314-BU
Power Supply:	

FCC15.209_ANSI63_10_2013

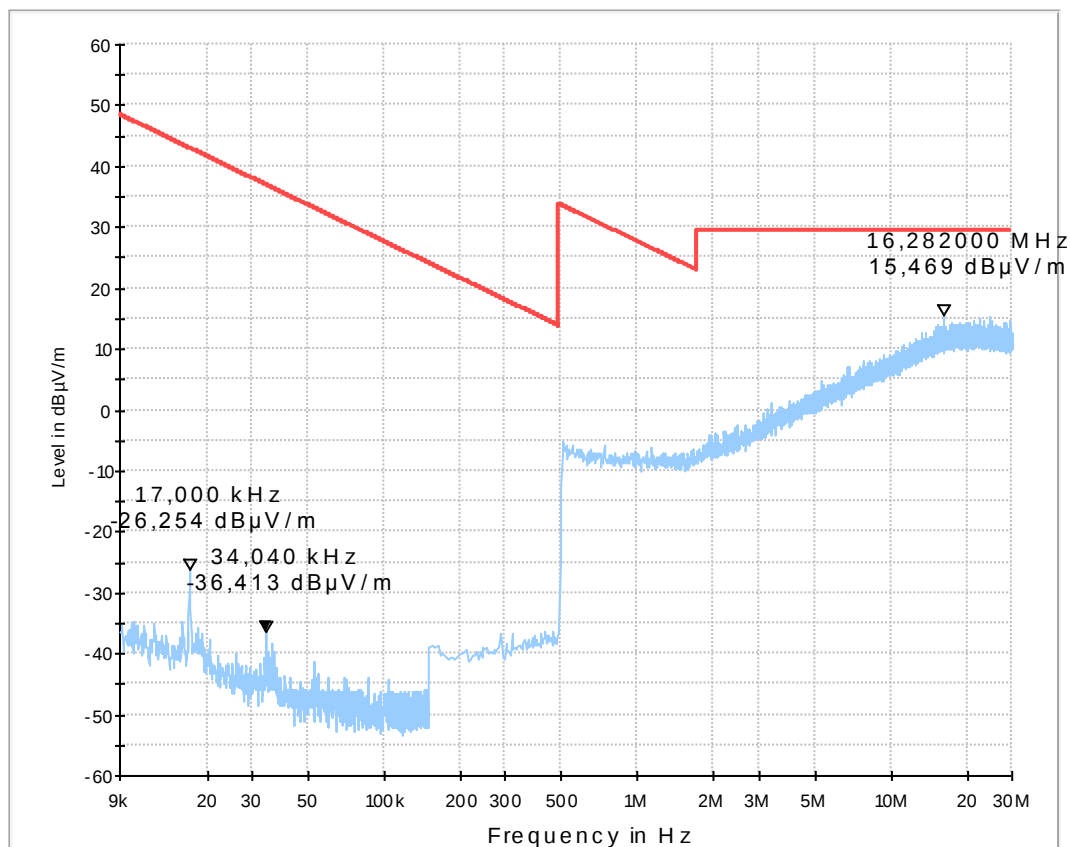


Diagram No. 2.03_Ch9538_FDDII

Date: 05.05.2015 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 4, ANSI C63.10-2013

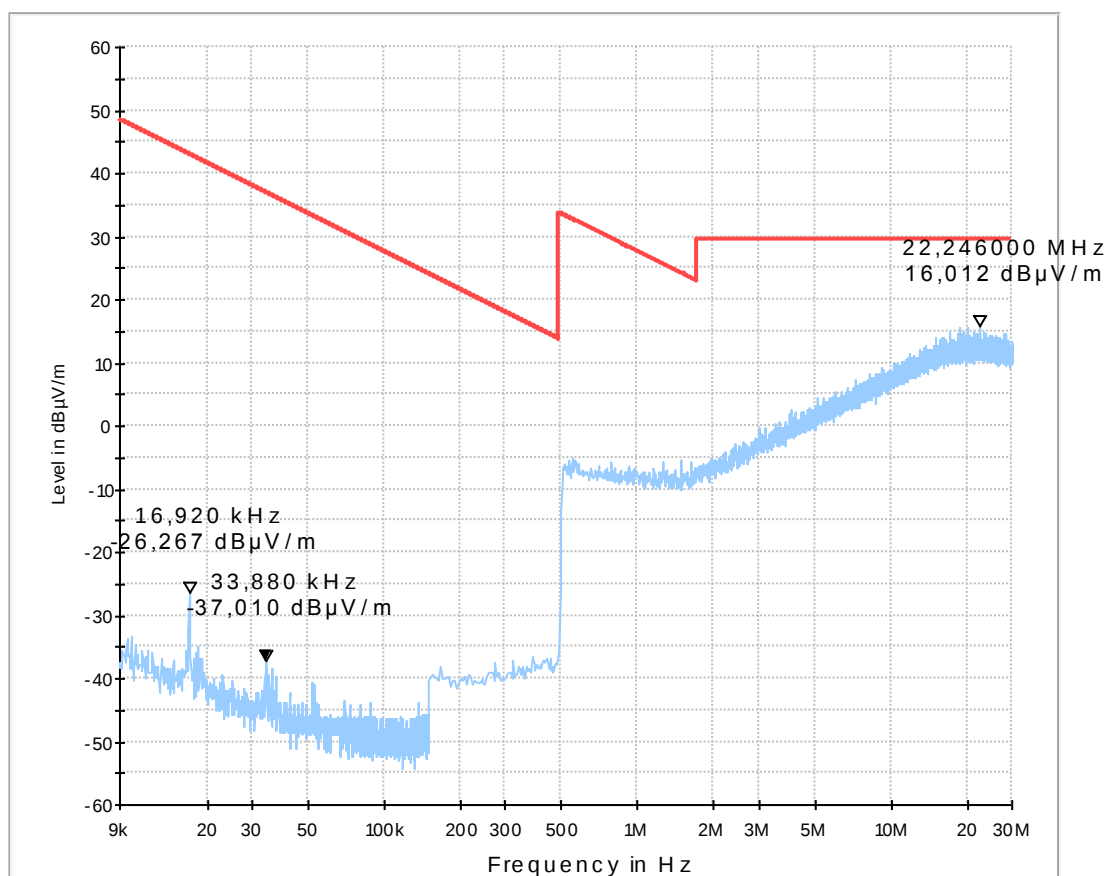
Operator: HLa
 Operating conditions: WCDMA FDDII RMC TX, channel : 9538
 Power during tests: 3,8V DC
 Comment 1:

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d

HW Version:	A
SW Version:	stream_UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	USB Cable, Antenna T-AT314-BU
Power Supply:	

FCC15.209_ANSI63_10_2013



1.11.2. FDD Band 5

Diagram No. 2.04_Ch4132_FDDV

Test description:	Date: 05.05.2015 Page 1 of 1
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V8.51.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
	FCC 15.205 § 15.209; RSS-Gen: Issue 4, ANSI C63.10-2013
Operator:	HLA
Operating conditions:	WCDMA FDDV RMC TX, channel : 4132
Power during tests:	3,8V DC
Comment 1:	

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
HW Version:	A
SW Version:	stream UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	USB Cable, Antenna T-AT314-BU
Power Supply:	AC Adaptor Ktec Model:KSA0151200125D5

FCC15.209_ANSI63_10_2013

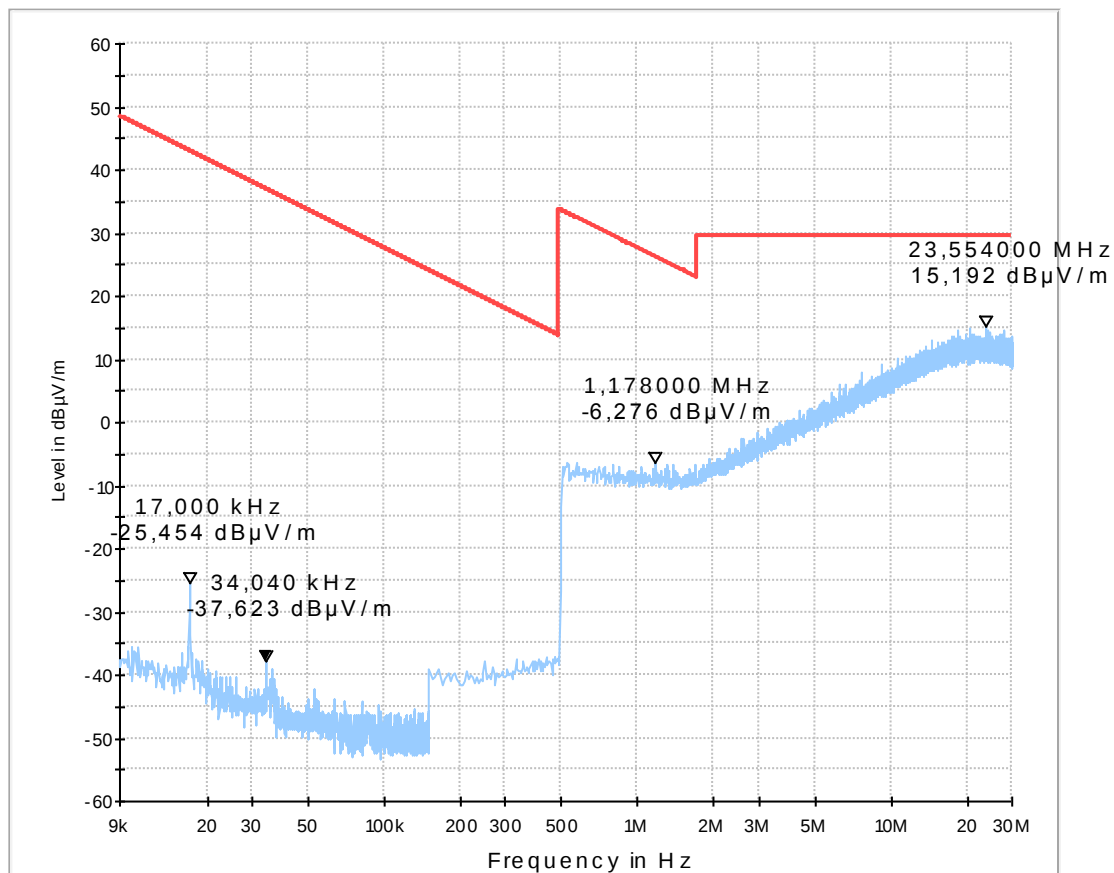


Diagram No. 2.05_Ch4183_FDDV

Test description:	Date: 05.05.2015 Page 1 of 1
Test site and distance:	Magnetic Field Strength Measurement related to 30/300 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Distance correction:	EMC32 V8.51.0
Technical Data:	used accord. table, pls. see test report
Rec. antenna (pre-scan):	Please see page 2 for detailed data of measurement setup
Used filter:	height 1.00 m, parallel and 90° to EUT polarisation
Test specification:	bypass
	FCC 15.205 § 15.209; RSS-Gen: Issue 4, ANSI C63.10-2013
Operator:	HLa
Operating conditions:	WCDMA FDDV RMC TX, channel : 4183
Power during tests:	3,8V DC
Comment 2:	

EUT Information

Manufacturer:	Telit
EuT:	UE866-N3G/ TEL0020AB1d
HW Version:	A
SW Version:	stream UE866_N3G_6255-12.00.805-B047
Serial Number:	IMEI 359335059003548
Connected Interfaces:	USB Cable, Antenna T-AT314-BU
Power Supply:	

FCC15.209_ANSI63_10_2013

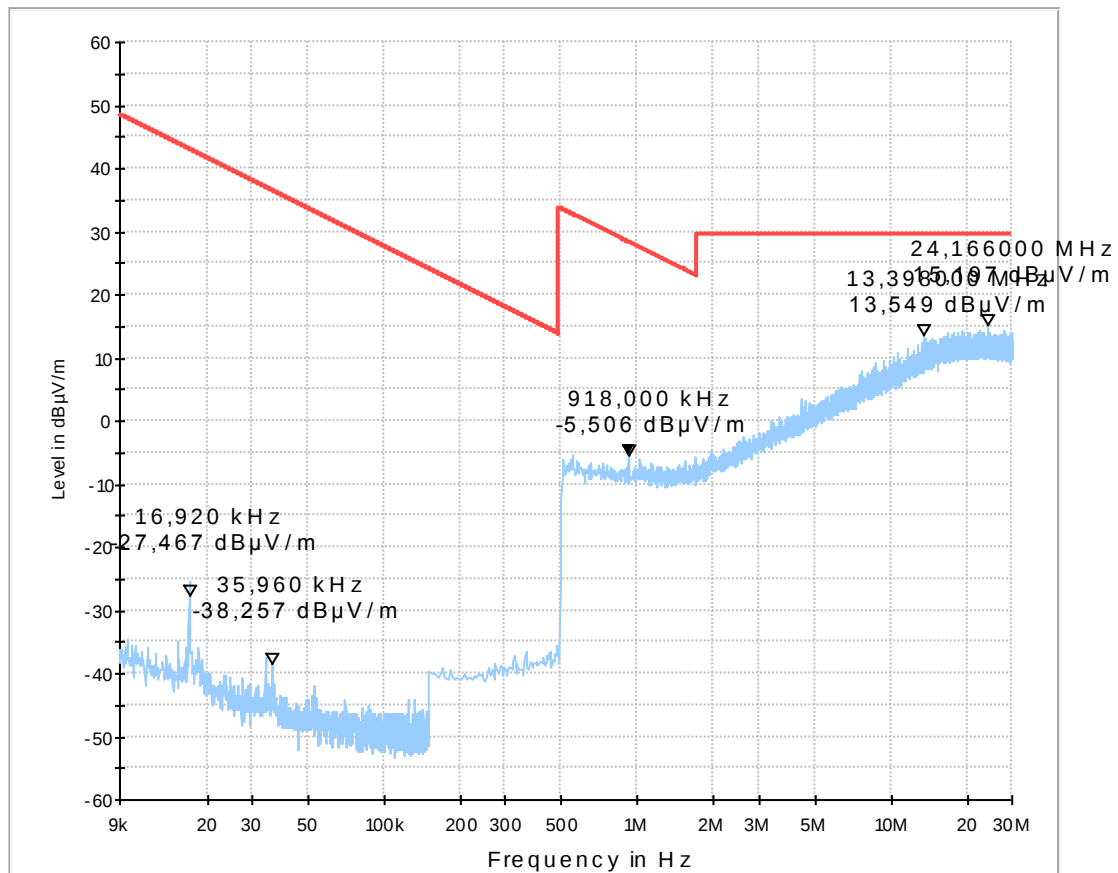


Diagram No. 2.06_Ch4233_FDDV

Test description:

Test site and distance:

Version of Testsoftware:

Distance correction:

Technical Data:

Rec. antenna (pre-scan):

Used filter:

Test specification:

Date: 06.05.2015 Page 1 of 1

Magnetic Field Strength Measurement related to 30/300 m distance

Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

EMC32 V8.51.0

used accord. table, pls. see test report

Please see page 2 for detailed data of measurement setup

height 1.00 m, parallel and 90° to EUT polarisation

bypass

FCC 15.205 § 15.209; RSS-Gen: Issue 4, ANSI C63.10-2013

Operator:

Operating conditions:

Power during tests:

Comment 1:

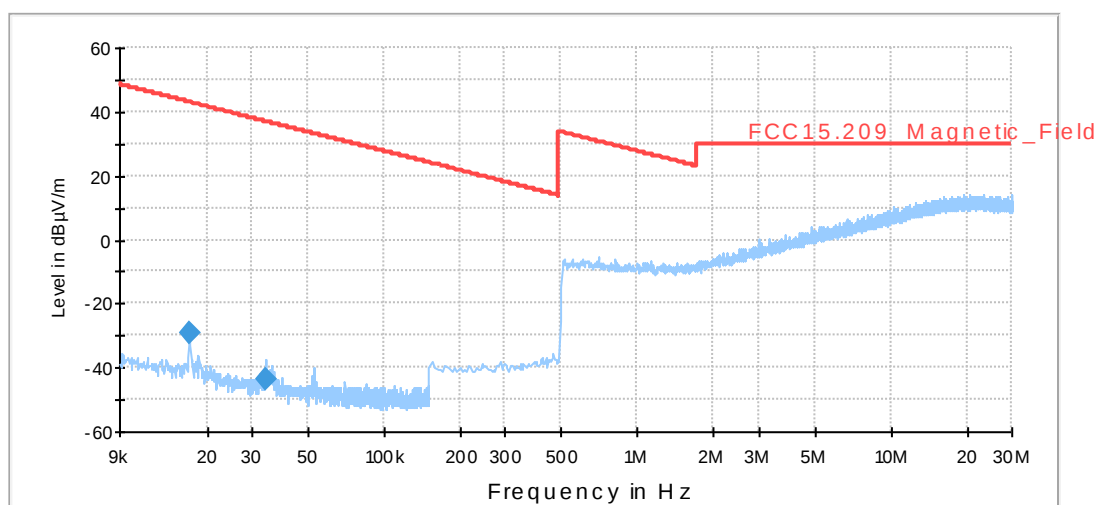
HLa/Lor

TX-on, RMC99

3.8 V DC

Channel high=4233

FCC15.209_ANSI63_10_2013



Final Result 1

Frequency (MHz)	RMS (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
0.017000	-29.4	1000.0	0.200	100.0	H	144.0	-58.7	72.40	43.00
0.033960	-43.7	1000.0	0.200	100.0	H	260.0	-59.5	80.70	37.00

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

Frequency	Comment
0.017000	
0.033960	