







Annex 1: Measurement diagrams to  
**TEST REPORT**  
 No.: 17-1-0105501T05

According to:  
**FCC Regulations**  
 Part 15.209  
 Part 15.247  
**ISED-Regulations**  
 RSS-247, Issue 2  
 RSS-Gen, Issue 4

for  
 Daimler Trucks North America

**CTPDIN**  
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 ISED: 22221-CTP10777001  
 PMN=CTPMIDDTNA  
 HVIN= CTPMIDDTNA  
 FVIN=17.02.S.016

Laboratory Accreditation and Listings			
 <b>DAkKS</b> Deutsche Akkreditierungsstelle D-PL-12047-01-01	 <b>FCC</b> FEDERAL COMMUNICATIONS COMMISSION USA 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
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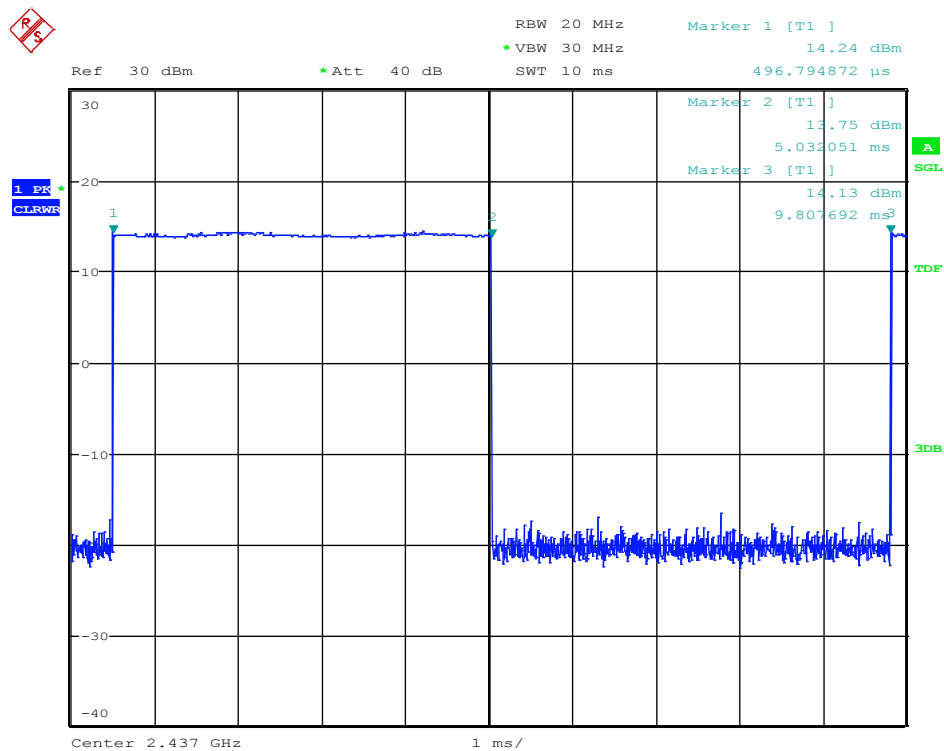
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# 1. Conducted RF-Measurements

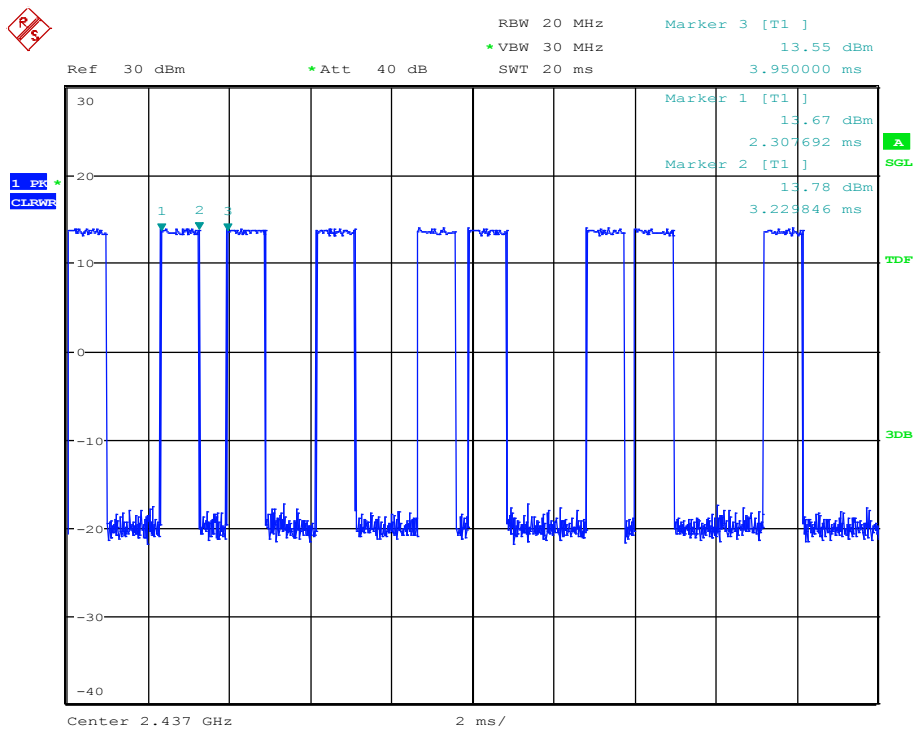
## 1.1. RF output Power

WLAN 802.11b/g/n(HT20)						
Conducted Power Measurements (using RF Peak Power Meter) [dBm]						
b-Mode (SISO)		Channel No. (Frequency MHz)			b-Mode (SISO) Maximum Conducted Value	b-Mode (SISO) Antenna Gain [dBi]
Data rate	Modulation	1 (2412)	6 (2437)	11 (2462)		
1MBit	DBPSK	13,32	12,93	12,34	<b>13,32</b>	<b>1,70</b>
2Mbit	DQPSK	13,29	12,62	12,35		
5.5Mbit	CCK-PBCC	12,71	12,33	11,78		
11MBit	ERP-PBCC	13,02	12,64	12,07		
<b>FCC15.247 Conducted Peak Power Limits + Antenna Gain Requirement</b>					<b>30.0 dBm</b>	<b>&lt; 6 dBi</b>
g-Mode (SISO)		Channel No. (Frequency MHz)			g-Mode (SISO) Maximum Conducted Value	g-Mode (SISO) Antenna Gain [dBi]
Data rate	Modulation	1 (2412)	6 (2437)	11 (2462)		
6Mbit	BPSK	10,90	11,13	11,27	<b>11,55</b>	<b>1,70</b>
9Mbit	BPSK	11,55	11,36	11,35		
12Mbit	QPSK	11,03	11,35	11,41		
18Mbit	QPSK	11,03	11,35	10,92		
24Mbit	16-QAM	11,12	11,36	10,84		
36Mbit	16-QAM	11,03	10,68	10,67		
48Mbit	64-QAM	10,98	10,76	10,60		
54Mbit	64-QAM	10,92	10,77	10,68		
<b>FCC15.247 Conducted Peak Power Limits + Antenna Gain Requirement</b>						
n-Mode HT20 (SISO)		Channel No. (Frequency MHz)			n(HT20)-Mode (SISO) Maximum Conducted Value	n(HT20)-Mode (SISO) Antenna Gain [dBi]
Data rate	Modulation	1 (2412)	6 (2437)	11 (2462)		
MCS0 - 6.5Mbps	BPSK	11,32	10,68	11,25	<b>11,32</b>	<b>1,70</b>
MCS1 - 13Mbps	QPSK	11,08	10,68	10,99		
MCS2 - 19.5Mbps	QPSK	10,83	10,85	10,68		
MCS3 - 26Mbps	QAM16	11,01	10,87	10,87		
MCS4 - 39Mbps	QAM16	10,89	10,80	10,75		
MCS5 - 52Mbps	QAM64	10,95	10,69	10,84		
MCS6 - 58.5Mbps	QAM64	10,88	10,59	10,77		
MCS7 - 65Mbps	QAM64	10,99	10,71	10,87		

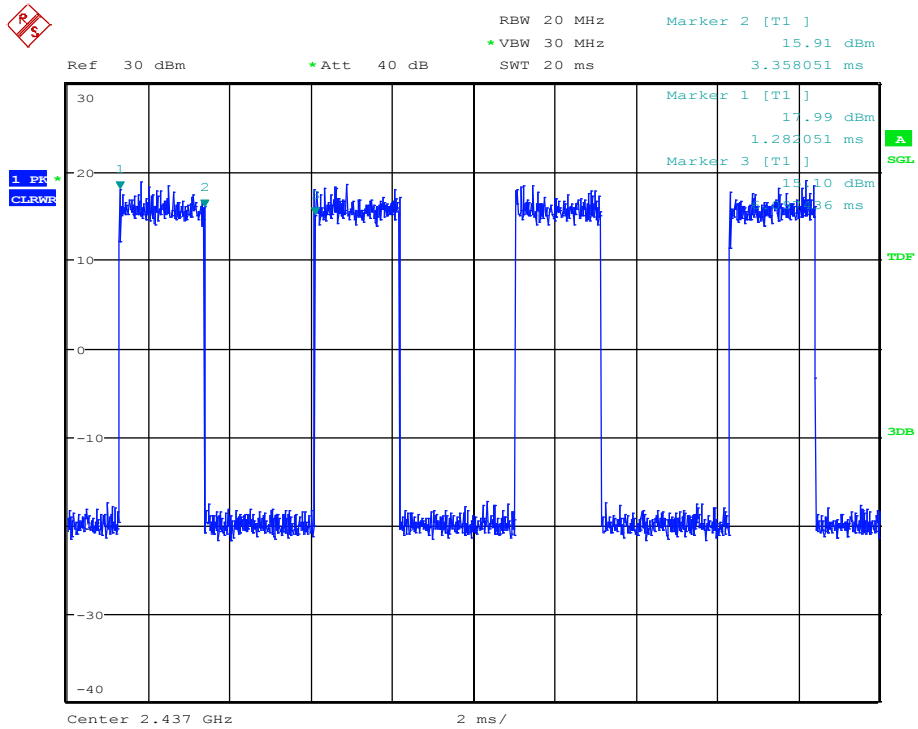
## 1.2. Duty Cycle Measurements



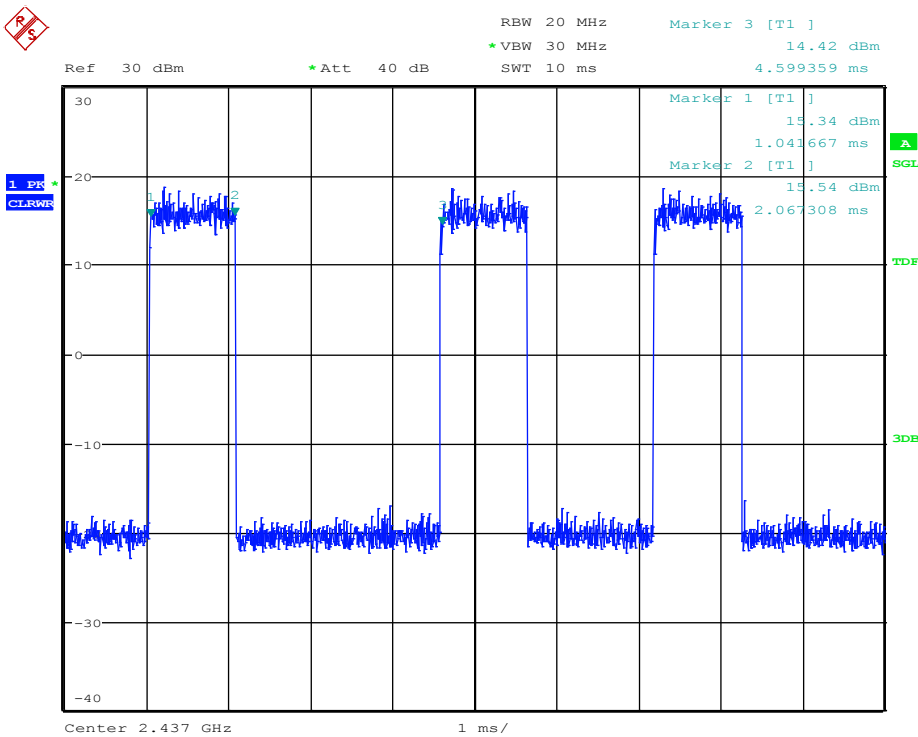
Plot 1: Duty Cycle-WLAN 2.4 GHz-b Mode | 20 MHz | 1 Mbit | Ch 6 (2437 MHz)



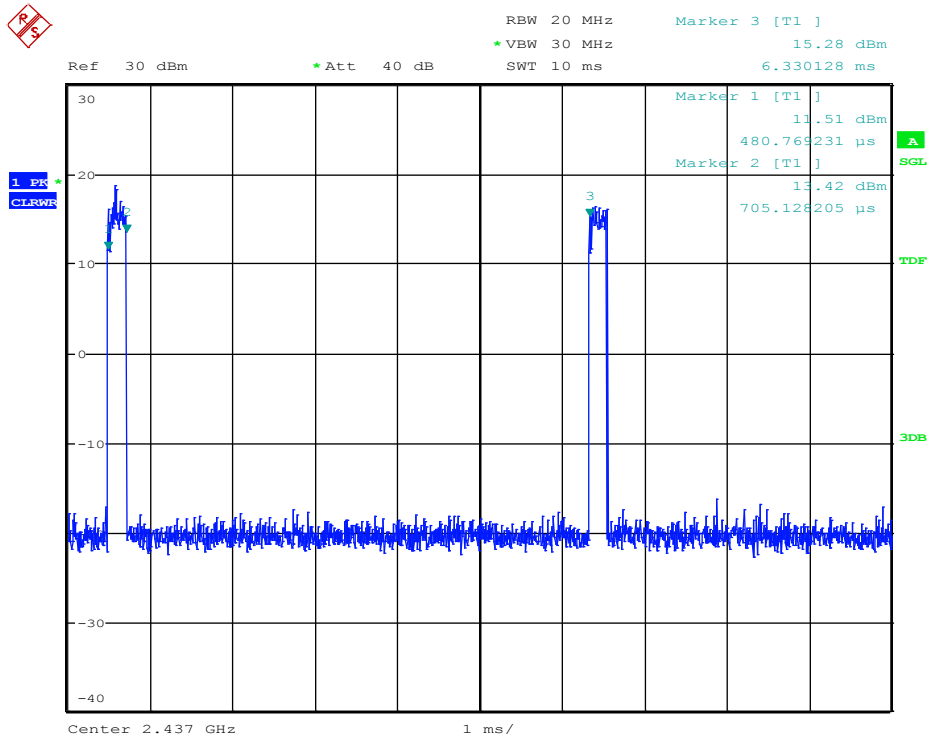
Plot 2: Duty Cycle-WLAN 2.4 GHz-b Mode | 20 MHz | 12 Mbit | Ch 6 (2437 MHz)



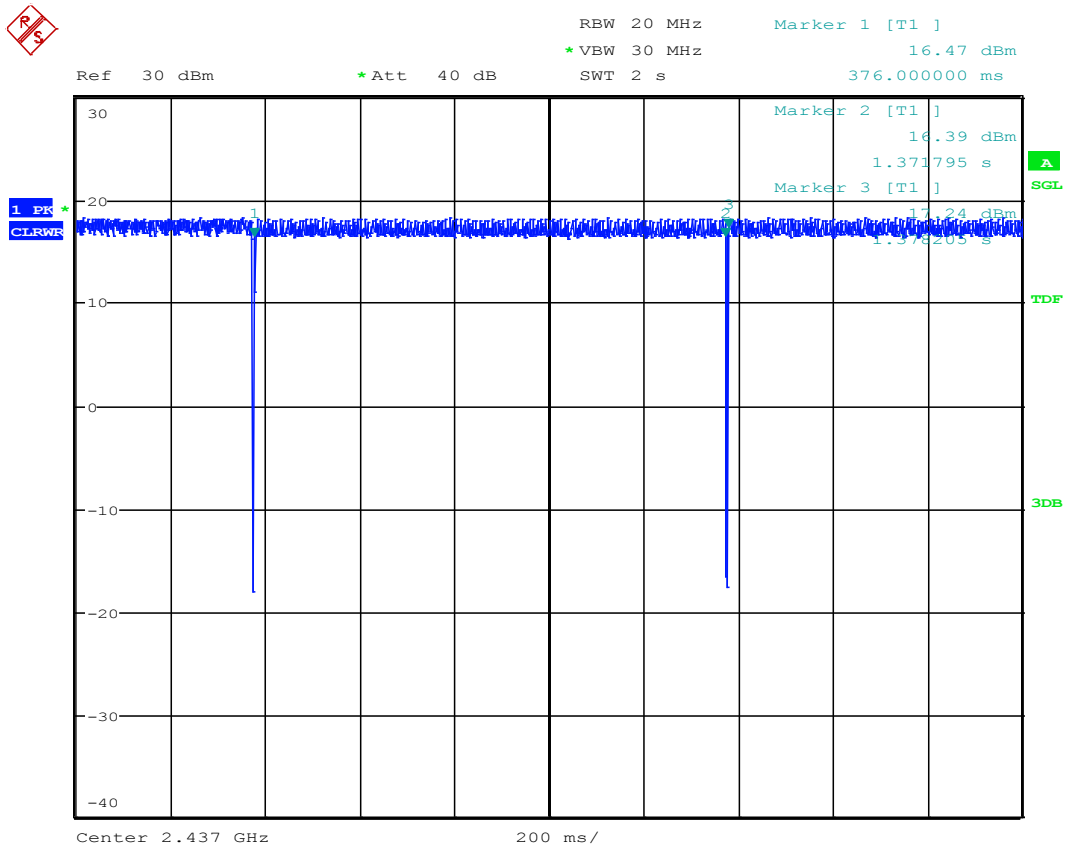
**Plot 3: Duty Cycle-WLAN 2.4 GHz-g Mode | 20 MHz | 6Mbit | Ch 6 (2437 MHz)**



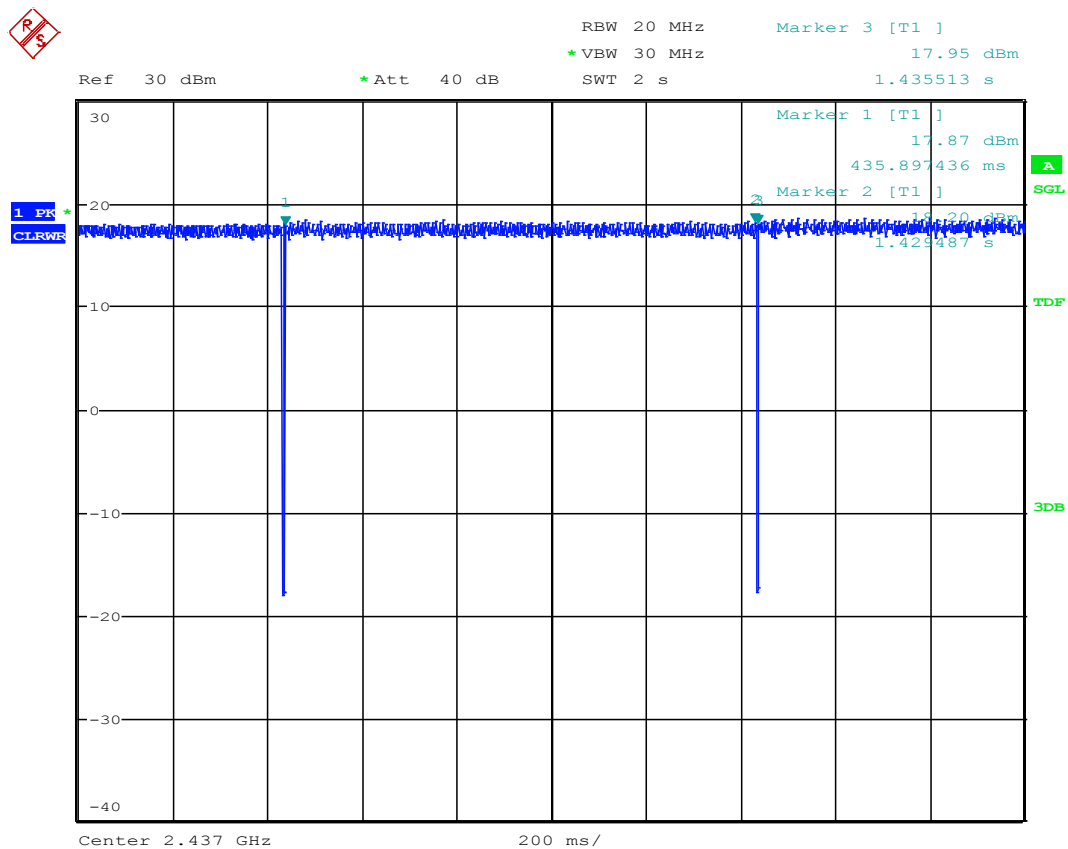
**Plot 4: Duty Cycle-WLAN 2.4 GHz-g Mode | 20 MHz | 12Mbit | Ch 6 (2437 MHz)**



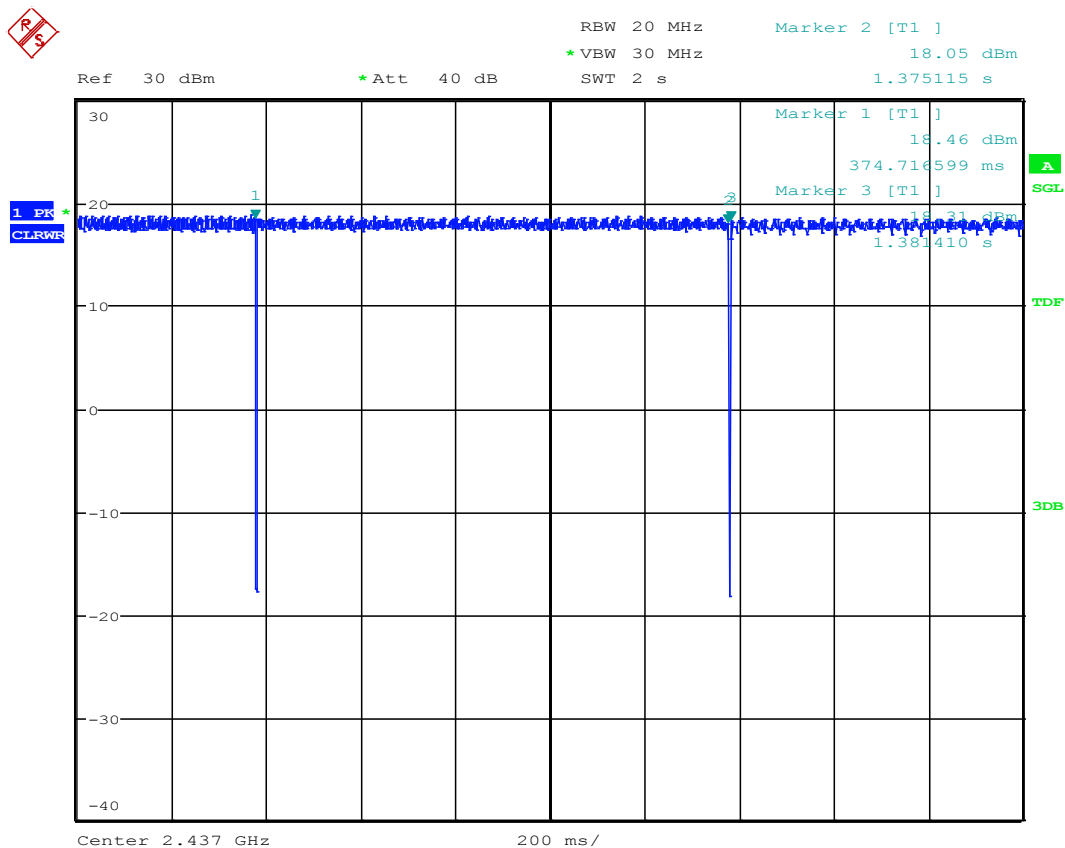
**Plot 5: Duty Cycle-WLAN 2.4 GHz-g Mode | 20 MHz | 54Mbit | Ch 6 (2437 MHz)**



**Plot 6: Duty Cycle-WLAN 2.4 GHz-n Mode | 20 MHz | MCS6 | Ch 6 (2437 MHz)**



Plot 7: Duty Cycle-WLAN 2.4 GHz-n Mode | 20 MHz | MCS6 | Ch 6 (2437 MHz)



Plot 8: Duty Cycle-WLAN 2.4 GHz-n Mode | 20 MHz | MCS7 | Ch 6 (2437 MHz)

### 1.3. Power Spectral Density Measurements (b/g/n Mode)

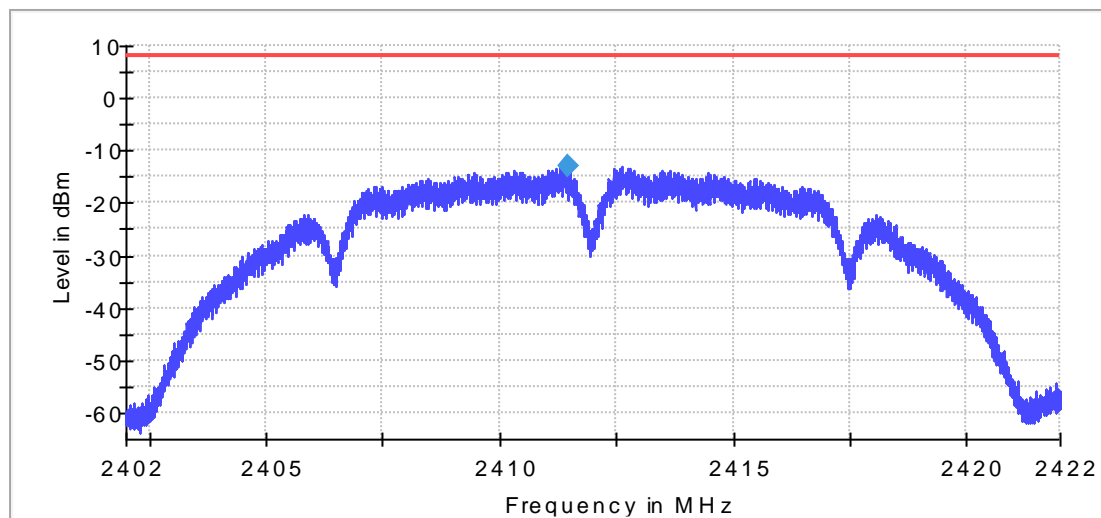
#### 1.3.1. b-Mode |20 MHz| 1Mbit| Lowest Channel 1 (2412 MHz)

#### Power Spectral Density (2412 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

### Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2411.467669	-13.110	8.0	PASS



— Limit    — Sum Level    ◆ PSD

### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40200 GHz	2.40200 GHz
Stop Frequency	2.42200 GHz	2.42200 GHz
Span	20.000 MHz	20.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	13301	~ 13333
Sweeptime	450.000 s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off



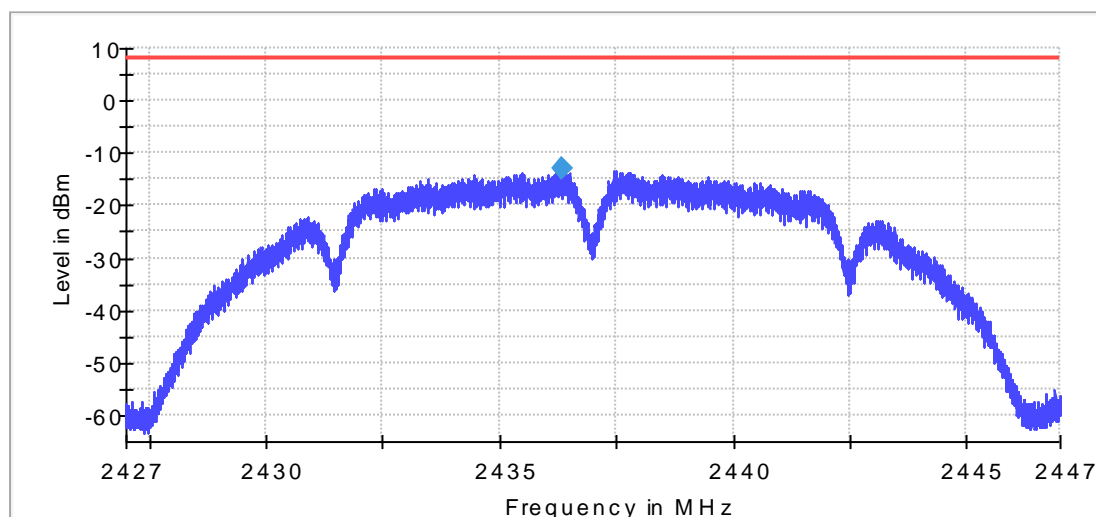
1.3.1.1. b-Mode [20 MHz] 1Mbit Middle Channel 6 (2437 MHz)

### Power Spectral Density (2437 MHz; b-Mode Worst-Case Modulation Type (14 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

### Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2436.341353	-13.066	8.0	PASS



— Limit — Sum Level ◆ PSD

### Measurement

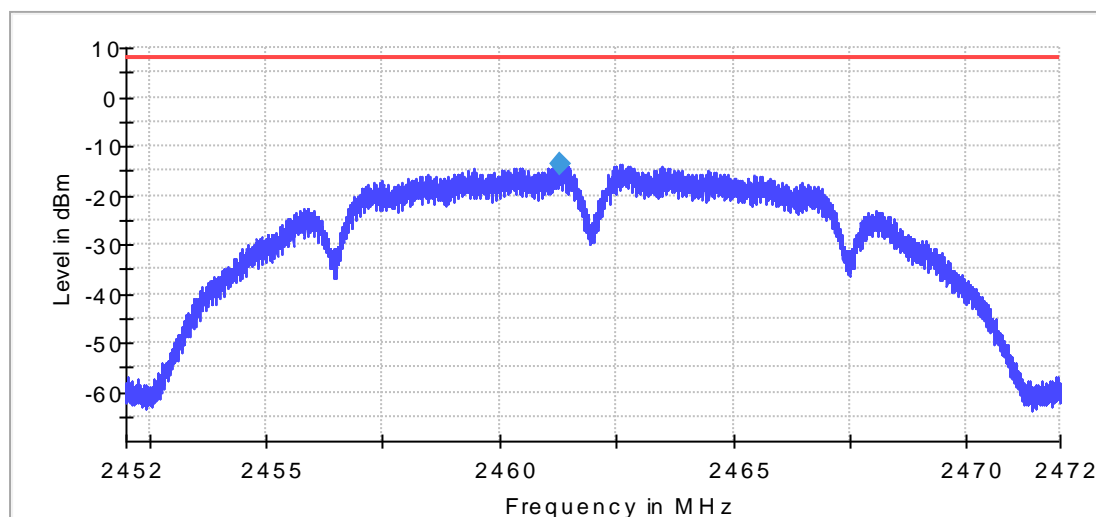
Setting	Instrument Value	Target Value
Start Frequency	2.42700 GHz	2.42700 GHz
Stop Frequency	2.44700 GHz	2.44700 GHz
Span	20.000 MHz	20.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	13301	~ 13333
Sweptime	450.000 s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off

### 1.3.2. b-Mode |20 MHz| 1Mbit| Highest Channel 11 (2462 MHz) Power Spectral Density (2462 MHz; b-Mode Worst-Case Modulation Type (14 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

#### Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2461.303759	-13.724	8.0	PASS



— Limit — Sum Level ◆ PSD

#### Measurement

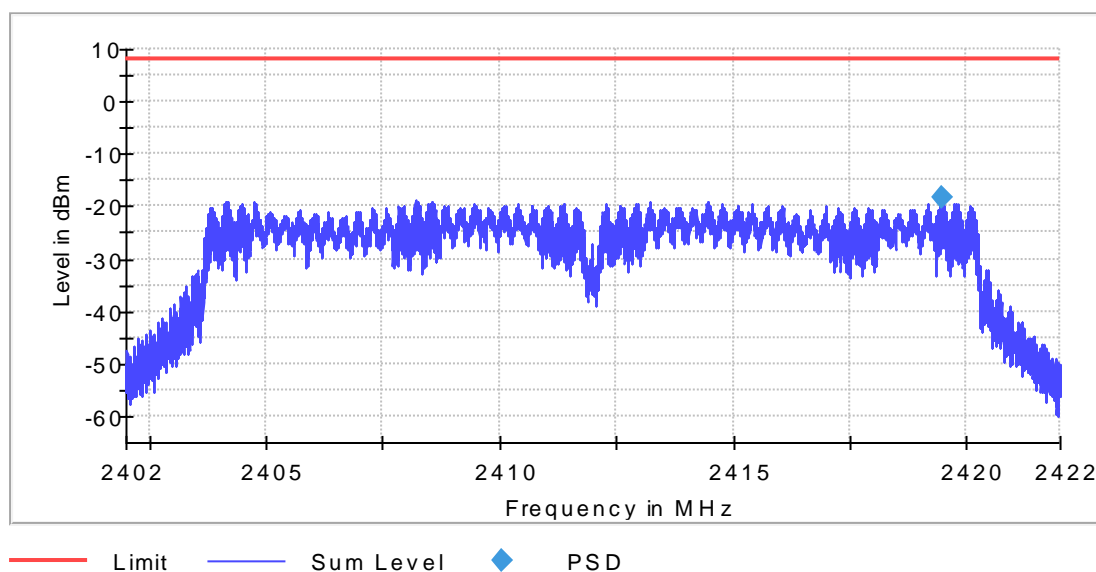
Setting	Instrument Value	Target Value
Start Frequency	2.45200 GHz	2.45200 GHz
Stop Frequency	2.47200 GHz	2.47200 GHz
Span	20.000 MHz	20.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	13301	~ 13333
Sweeptime	450.000 s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off

### 1.3.3. g-Mode |20 MHz| 12Mbit| Lowest Channel 1 (2412 MHz) Power Spectral Density (2412 MHz; g-Mode (11 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

## Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2419.475188	-18.385	8.0	PASS



## Measurement

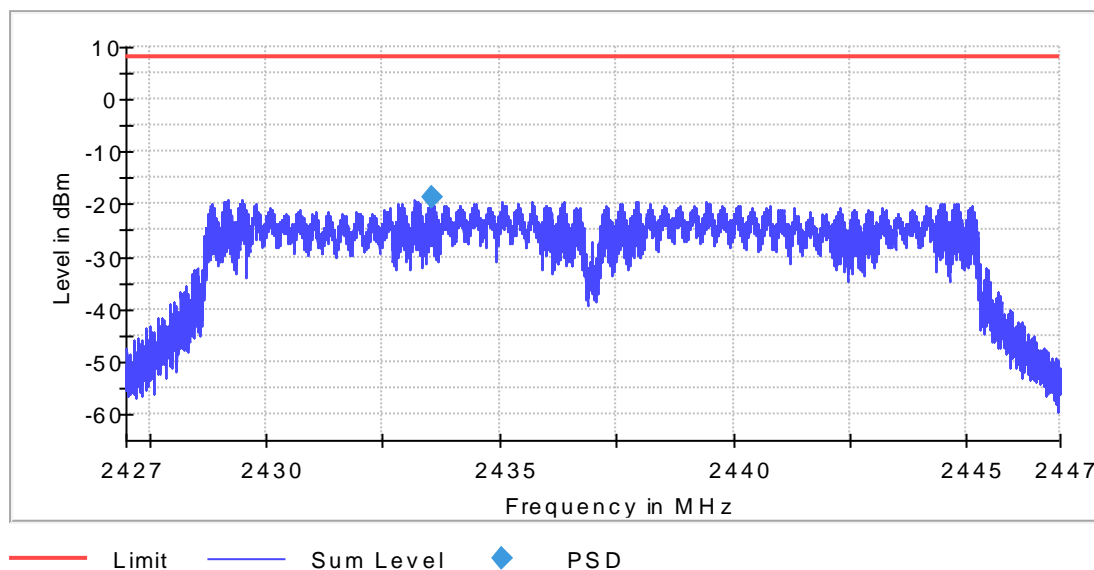
Setting	Instrument Value	Target Value
Start Frequency	2.40200 GHz	2.40200 GHz
Stop Frequency	2.42200 GHz	2.42200 GHz
Span	20.000 MHz	20.000 MHz
RBW	3.000 kHz	≤ 3.000 kHz
VBW	10.000 kHz	≥ 9.000 kHz
SweepPoints	13301	~ 13333
SweepTime	450.000 s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off

### 1.3.4. g-Mode |20 MHz| 12Mbit| Middle Channel 6 (2437 MHz) Power Spectral Density (2437 MHz; g-Mode (11 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

## Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2433.557895	-18.735	8.0	PASS



## Measurement

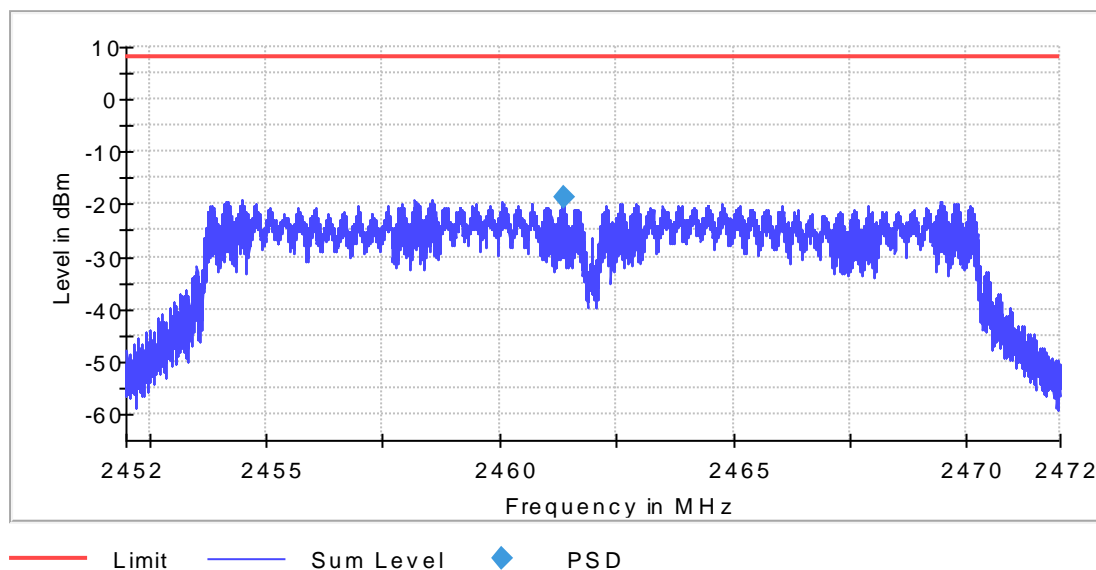
Setting	Instrument Value	Target Value
Start Frequency	2.42700 GHz	2.42700 GHz
Stop Frequency	2.44700 GHz	2.44700 GHz
Span	20.000 MHz	20.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	13301	~ 13333
SweepTime	450.000 s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off

### 1.3.5. g-Mode |20 MHz| 12Mbit| Highest Channel 11 (2462 MHz) Power Spectral Density (2462 MHz; g-Mode (11 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

#### Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2461.362406	-18.752	8.0	PASS



#### Measurement

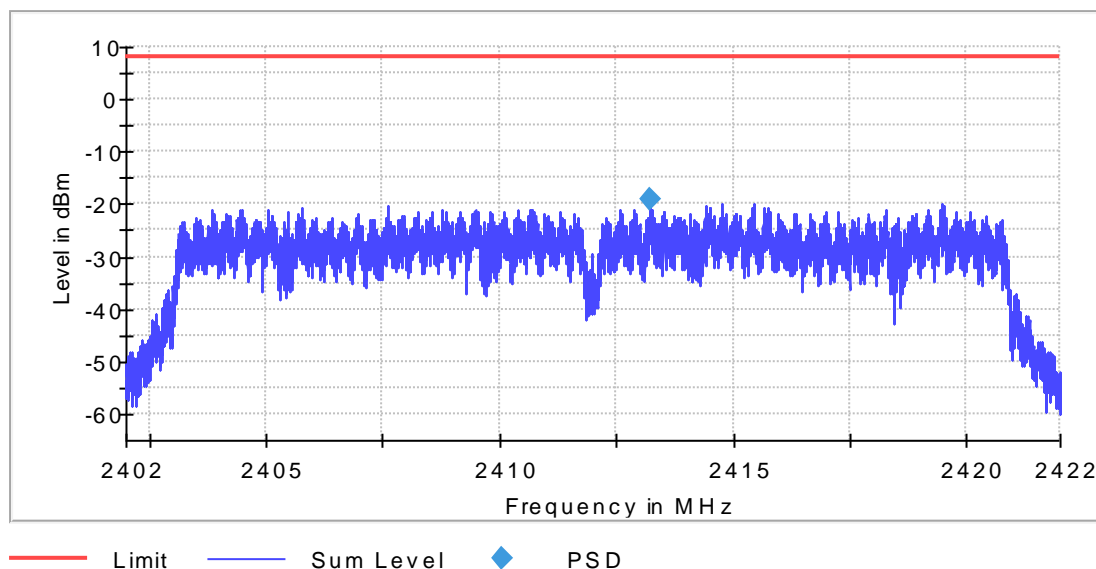
Setting	Instrument Value	Target Value
Start Frequency	2.45200 GHz	2.45200 GHz
Stop Frequency	2.47200 GHz	2.47200 GHz
Span	20.000 MHz	20.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	13301	~ 13333
SweepTime	450.000 s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off

### 1.3.6. n-Mode [20 MHz] MCS6] Lowest Channel 1 (2412 MHz) Power Spectral Density (2412 MHz; n-Mode Worst-Case Modulation Type (14 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

## Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2413.228571	-19.009	8.0	PASS



## Measurement

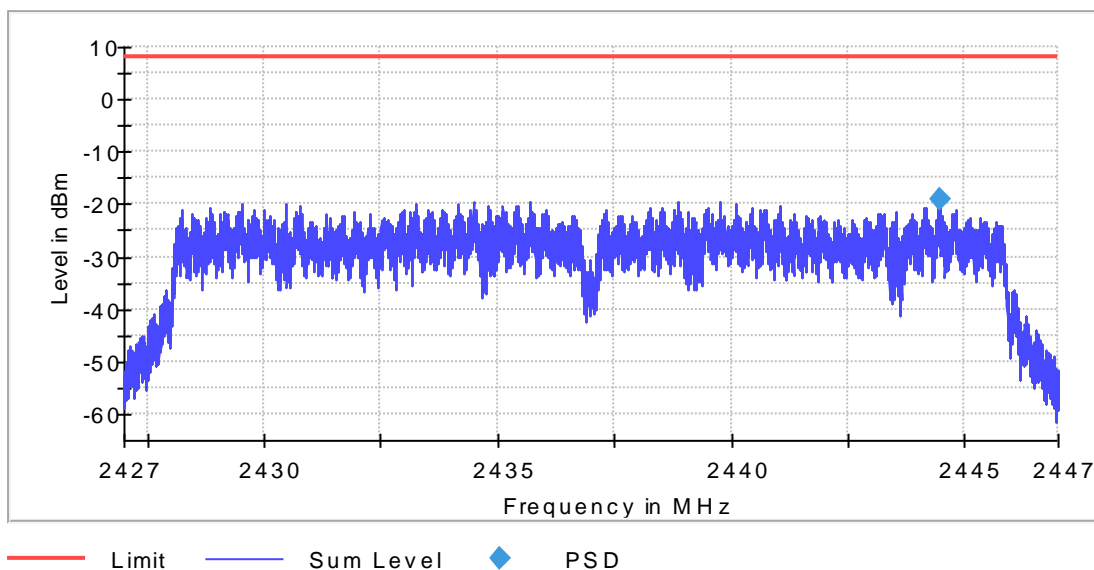
Setting	Instrument Value	Target Value
Start Frequency	2.40200 GHz	2.40200 GHz
Stop Frequency	2.42200 GHz	2.42200 GHz
Span	20.000 MHz	20.000 MHz
RBW	3.000 kHz	≤ 3.000 kHz
VBW	10.000 kHz	≥ 9.000 kHz
SweepPoints	13301	~ 13333
SweepTime	450.000 s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off

### 1.3.7. n-Mode [20 MHz] MCS6 Middle Channel 6 (2437 MHz) Power Spectral Density (2437 MHz; n-Mode (11 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

#### Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2444.470677	-18.957	8.0	PASS



#### Measurement

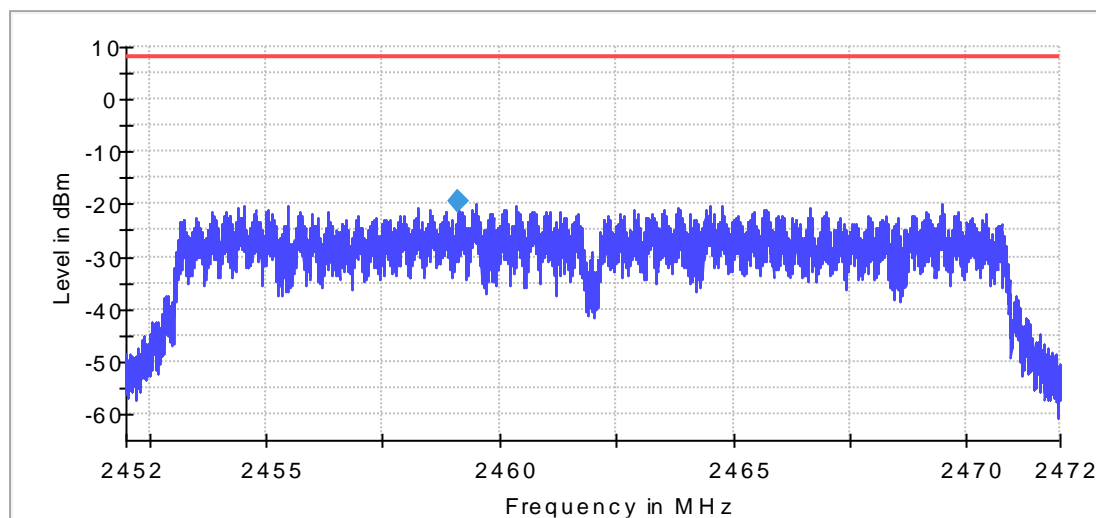
Setting	Instrument Value	Target Value
Start Frequency	2.42700 GHz	2.42700 GHz
Stop Frequency	2.44700 GHz	2.44700 GHz
Span	20.000 MHz	20.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	13301	~ 13333
Sweeptime	450.000 s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off

### 1.3.8. n-Mode [20 MHz] MCS6 Highest Channel 11 (2462 MHz) Power Spectral Density (2462 MHz; n-Mode Worst-Case Modulation Type (14 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

## Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2459.129323	-19.455	8.0	PASS



— Limit    — Sum Level    ◆ PSD

## Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.45200 GHz	2.45200 GHz
Stop Frequency	2.47200 GHz	2.47200 GHz
Span	20.000 MHz	20.000 MHz
RBW	3.000 kHz	≤ 3.000 kHz
VBW	10.000 kHz	≥ 9.000 kHz
SweepPoints	13301	~ 13333
Sweptime	450.000 s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off



### 1.4. 6 dB Bandwidth Measurements (b/g/n Mode)

#### 1.4.1. b-Mode |20 MHz| 1Mbit| Lowest Channel 1 (2412 MHz)

### Minimum Emission Bandwidth 6 dB (2412 MHz; b-Mode Worst-Case Modulation Type (14 dBm); 20 MHz)

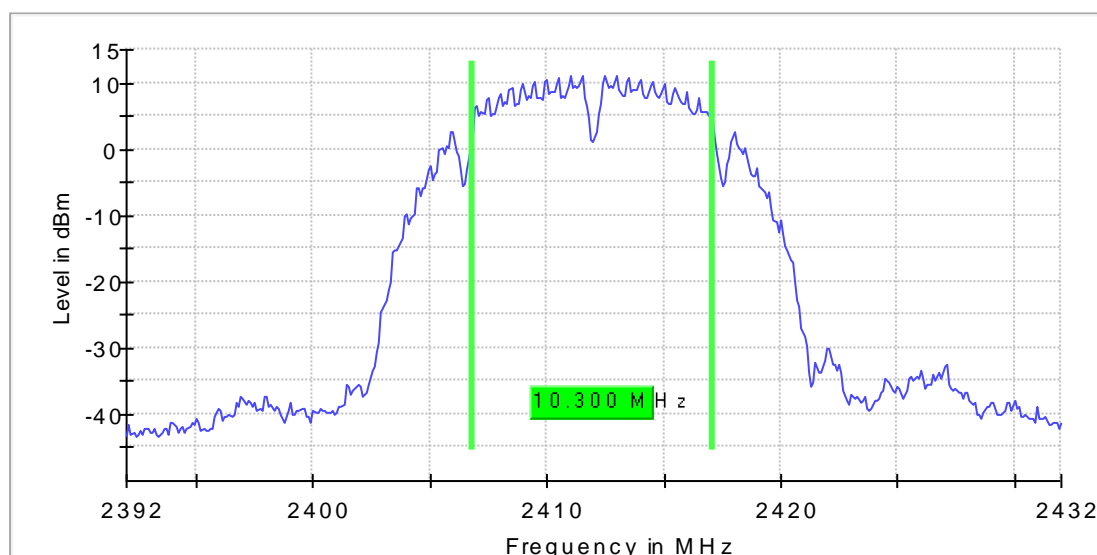
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

### 6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
2412.000000	10.300000	0.500000	---	2406.800000	2417.100000	11.0

(continuation of the "6 dB Bandwidth" table from column 7 ...)

DUT Frequency (MHz)	Result
2412.000000	PASS



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	401	~ 400
SweepTime	15.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	24 / max. 150	max. 150
Stable	15 / 15	15
Max Stable Difference	0.09 dB	0.50 dB

**1.4.2. b-Mode |20 MHz| 1Mbit| Middle Channel 6 (2437 MHz)  
Minimum Emission Bandwidth 6 dB (2437 MHz; b-Mode Worst-Case  
Modulation Type (14 dBm); 20 MHz)**

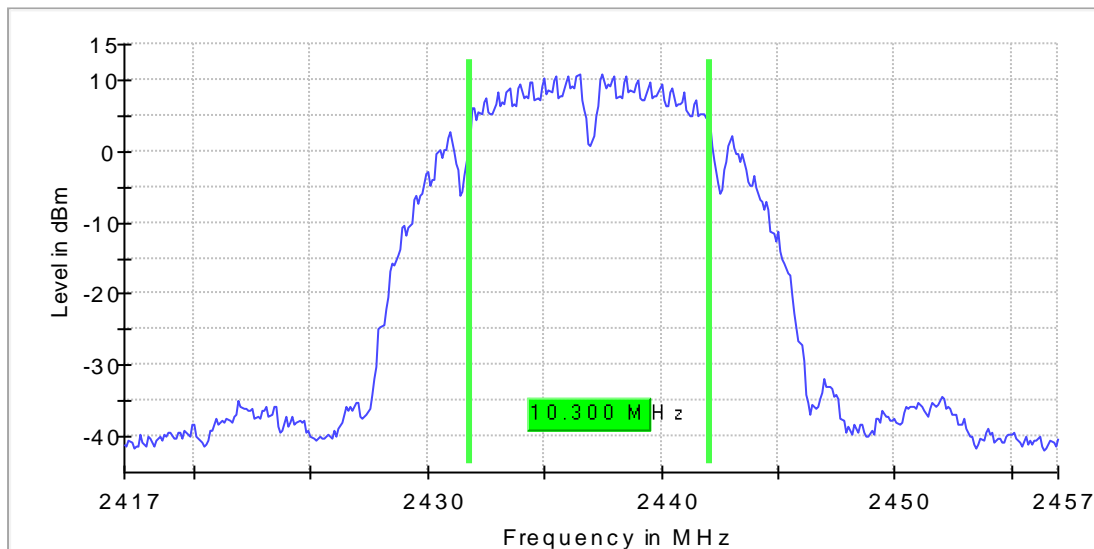
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

**6 dB Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
2437.000000	10.300000	0.500000	---	2431.800000	2442.100000	10.7

(continuation of the "6 dB Bandwidth" table from column 7 ...)

DUT Frequency (MHz)	Result
2437.000000	PASS



**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	401	~ 400
Sweeptime	15.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	23 / max. 150	max. 150
Stable	15 / 15	15
Max Stable Difference	0.09 dB	0.50 dB

**1.4.3. b-Mode |20 MHz| 1Mbit| Highest Channel 11 (2462 MHz)  
Minimum Emission Bandwidth 6 dB (2462 MHz; b-Mode Worst-Case  
Modulation Type (14 dBm); 20 MHz)**

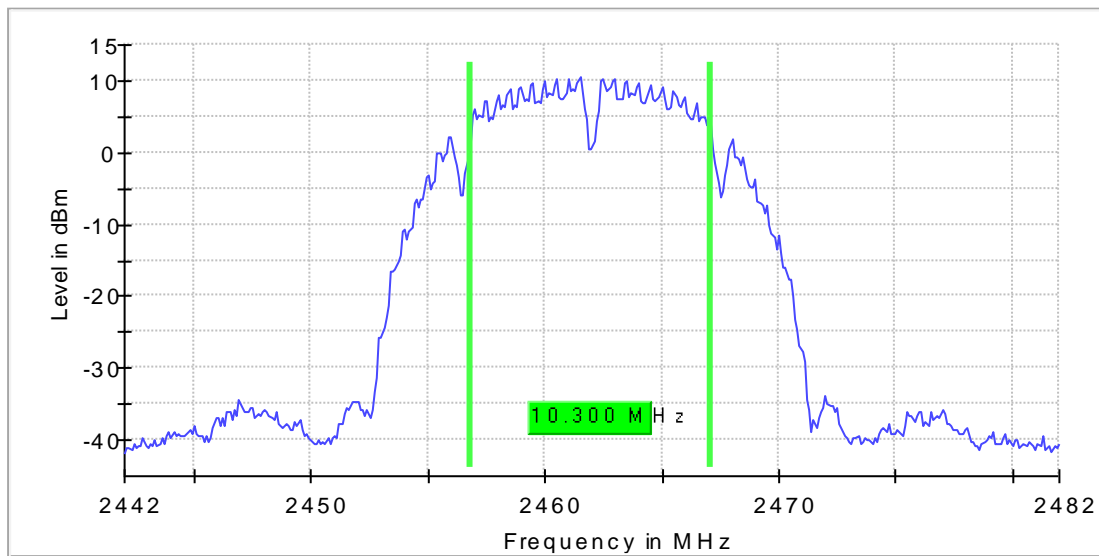
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

**6 dB Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
2462.000000	10.300000	0.500000	---	2456.800000	2467.100000	10.5

(continuation of the "6 dB Bandwidth" table from column 7 ...)

DUT Frequency (MHz)	Result
2462.000000	PASS



**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	401	~ 400
Sweeptime	15.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	23 / max. 150	max. 150
Stable	15 / 15	15
Max Stable Difference	0.03 dB	0.50 dB

**1.4.4. g-Mode |20 MHz| 12Mbit| Lowest Channel 1 (2412 MHz)**

**Minimum Emission Bandwidth 6 dB (2412 MHz; g-Mode (11 dBm); 20 MHz)**

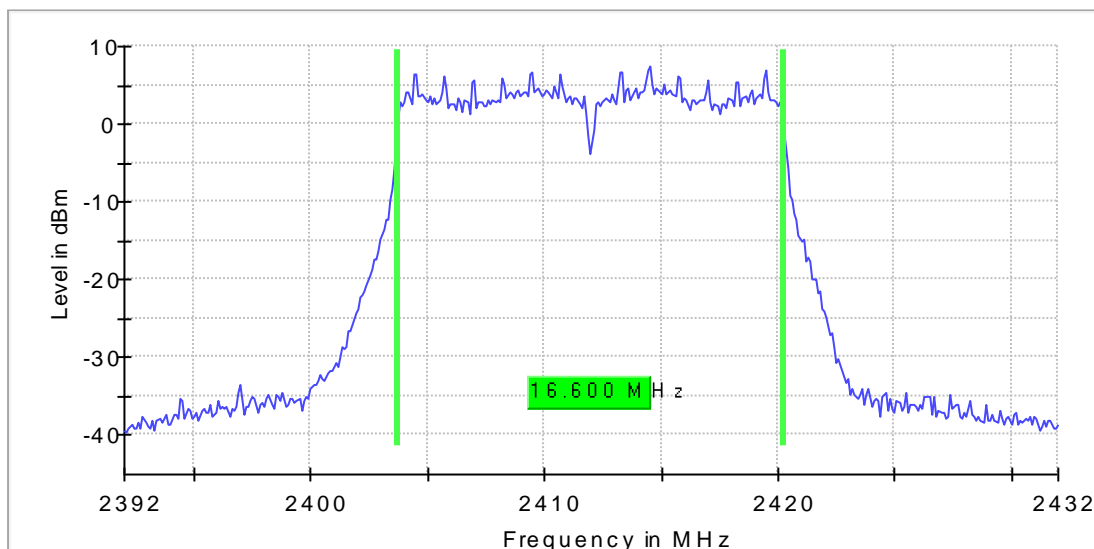
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

**6 dB Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
2412.000000	16.600000	0.500000	---	2403.700000	2420.300000	7.5

(continuation of the "6 dB Bandwidth" table from column 7 ...)

DUT Frequency (MHz)	Result
2412.000000	PASS



**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	401	~ 400
Sweeptime	15.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	41 / max. 150	max. 150
Stable	15 / 15	15
Max Stable Difference	0.11 dB	0.50 dB

**1.4.5. g-Mode |20 MHz| 12Mbit| Middle Channel 6 (2437 MHz)**

**Minimum Emission Bandwidth 6 dB (2437 MHz; g-Mode (11 dBm); 20 MHz)**

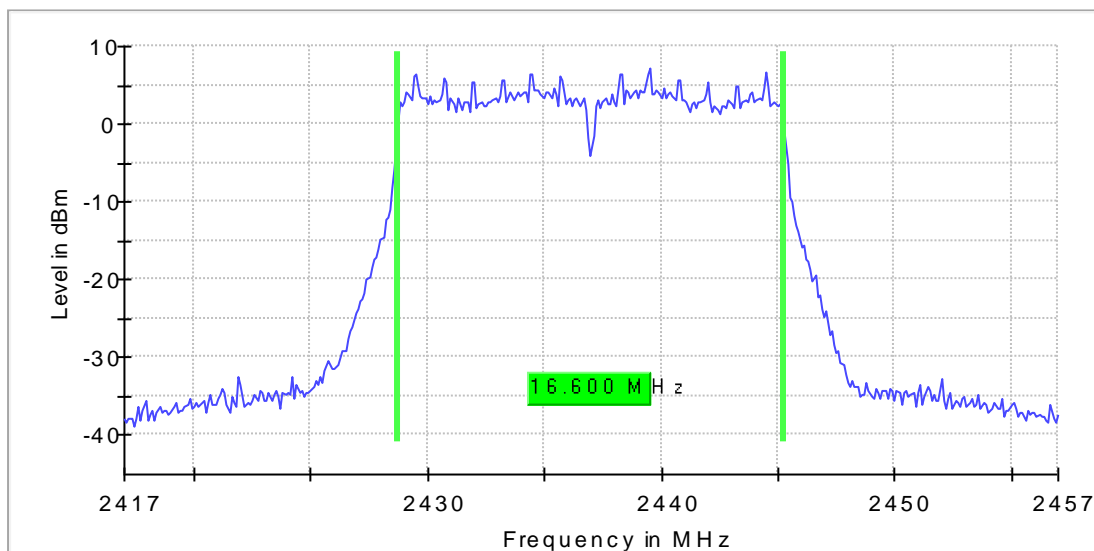
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

**6 dB Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
2437.000000	16.600000	0.500000	---	2428.700000	2445.300000	7.3

(continuation of the "6 dB Bandwidth" table from column 7 ...)

DUT Frequency (MHz)	Result
2437.000000	PASS



**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	401	~ 400
Sweptime	15.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	68 / max. 150	max. 150
Stable	15 / 15	15
Max Stable Difference	0.01 dB	0.50 dB

**1.4.6. g-Mode |20 MHz| 12Mbit| Highest Channel 11 (2462 MHz)  
Minimum Emission Bandwidth 6 dB (2462 MHz; g-Mode (11 dBm); 20 MHz)**

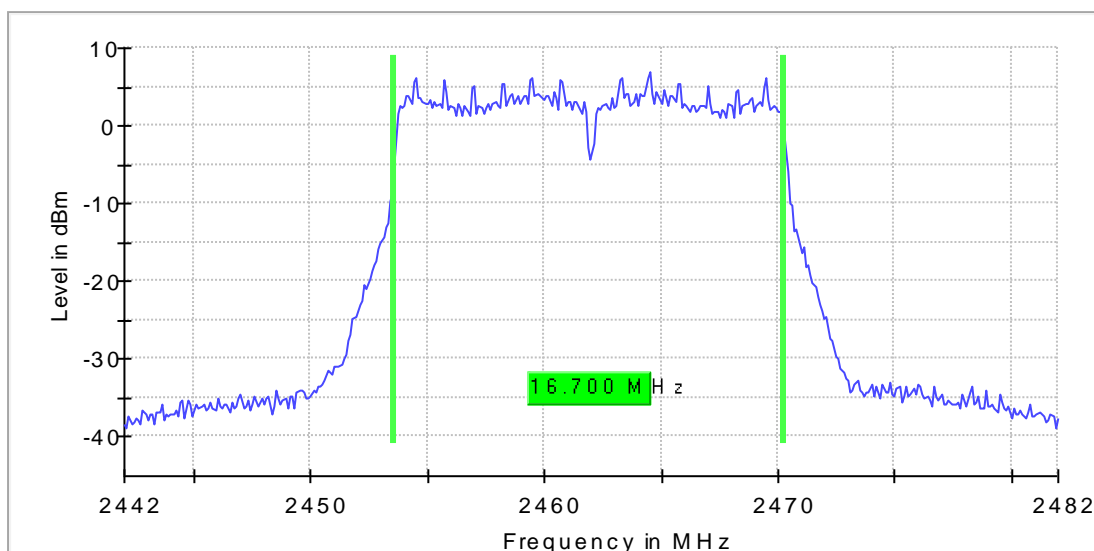
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

**6 dB Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
2462.000000	16.700000	0.500000	---	2453.600000	2470.300000	6.9

(continuation of the "6 dB Bandwidth" table from column 7 ...)

DUT Frequency (MHz)	Result
2462.000000	PASS



**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	401	~ 400
Sweptime	15.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	45 / max. 150	max. 150
Stable	15 / 15	15
Max Stable Difference	0.11 dB	0.50 dB

**1.4.7. n-Mode [20 MHz] MCS6] Lowest Channel 1 (2412 MHz)**

**Minimum Emission Bandwidth 6 dB (2412 MHz; n-Mode Worst-Case Modulation Type (14 dBm); 20 MHz)**

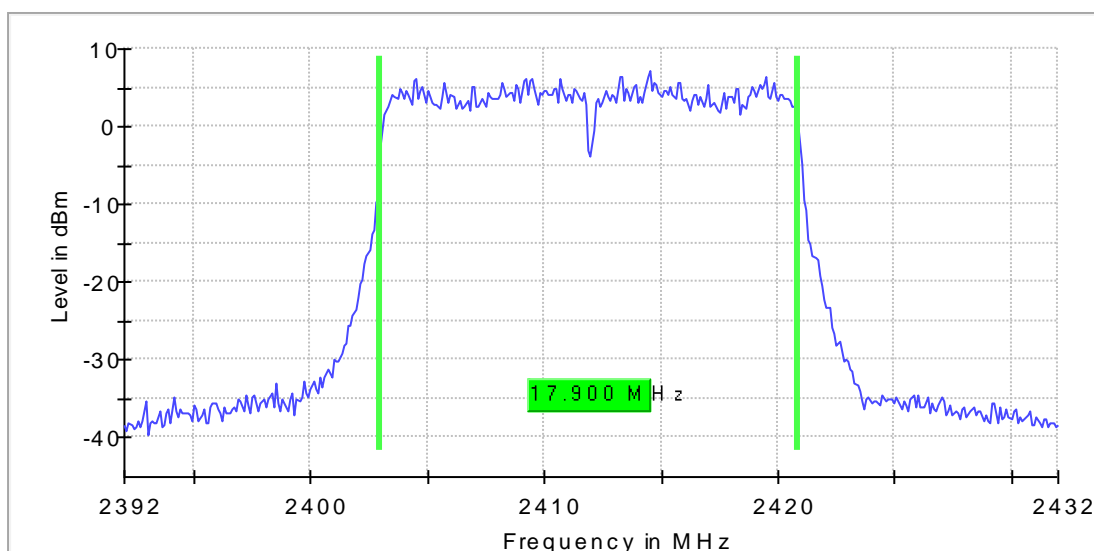
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

**6 dB Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
2412.000000	17.900000	0.500000	---	2403.000000	2420.900000	7.1

(continuation of the "6 dB Bandwidth" table from column 7 ...)

DUT Frequency (MHz)	Result
2412.000000	PASS



**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	401	~ 400
SweepTime	15.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	150 / max. 150	max. 150
Stable	2 / 15	15
Max Stable Difference	0.00 dB	0.50 dB

**1.4.8. n-Mode [20 MHz] MCS6] Middle Channel 6 (2437 MHz)**

**Minimum Emission Bandwidth 6 dB (2437 MHz; n-Mode (11 dBm); 20 MHz)**

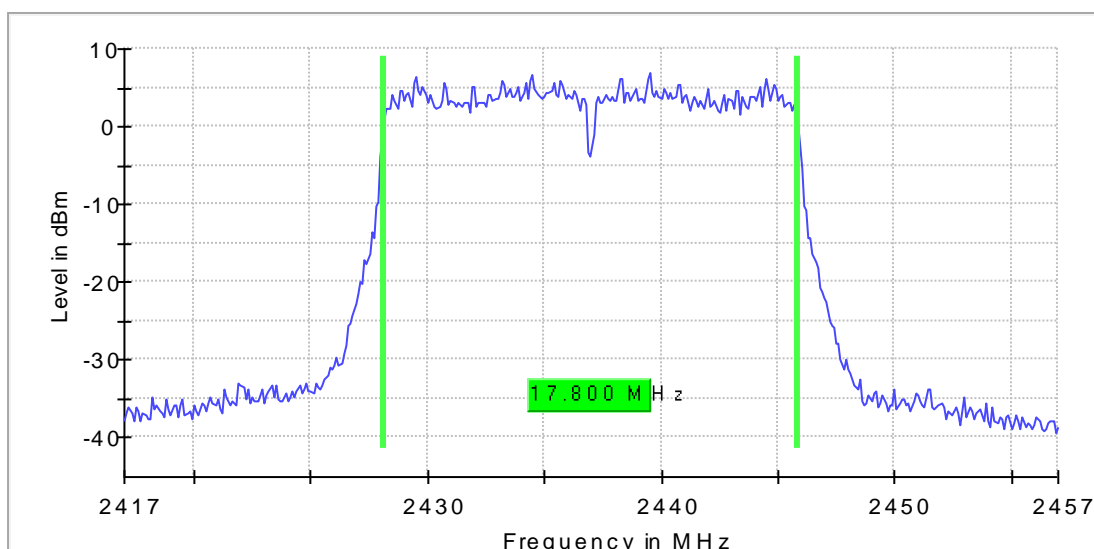
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

**6 dB Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
2437.000000	17.800000	0.500000	---	2428.100000	2445.900000	6.9

(continuation of the "6 dB Bandwidth" table from column 7 ...)

DUT Frequency (MHz)	Result
2437.000000	PASS



**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	401	~ 400
SweepTime	15.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	150 / max. 150	max. 150
Stable	1 / 15	15
Max Stable Difference	0.08 dB	0.50 dB



**1.4.9. n-Mode [20 MHz] MCS6] Highest Channel 11 (2462 MHz)  
Minimum Emission Bandwidth 6 dB (2462 MHz; n-Mode Worst-Case  
Modulation Type (14 dBm); 20 MHz)**

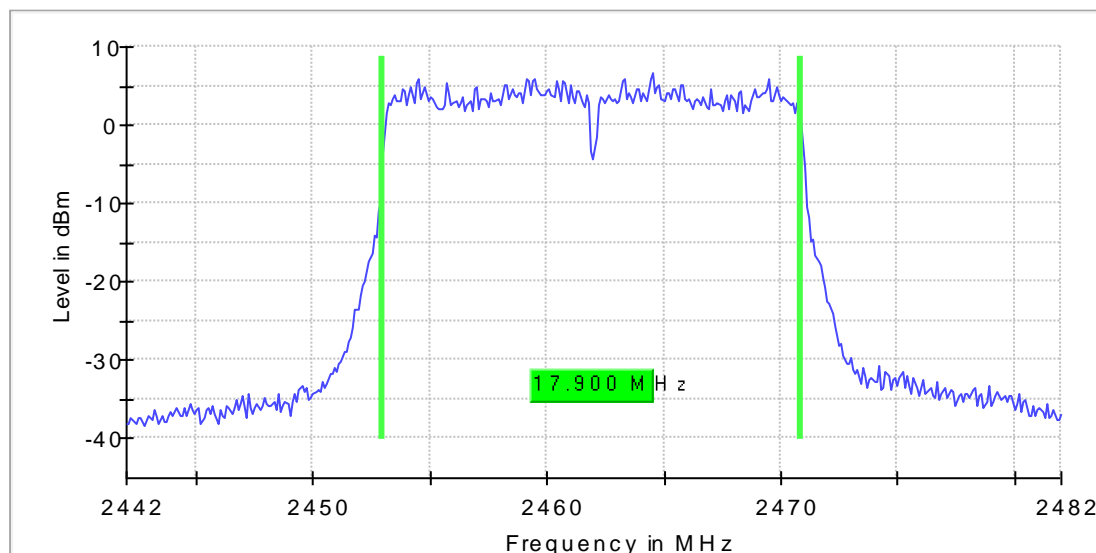
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10

**6 dB Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)
2462.000000	17.900000	0.500000	---	2453.000000	2470.900000	6.6

(continuation of the "6 dB Bandwidth" table from column 7 ...)

DUT Frequency (MHz)	Result
2462.000000	PASS

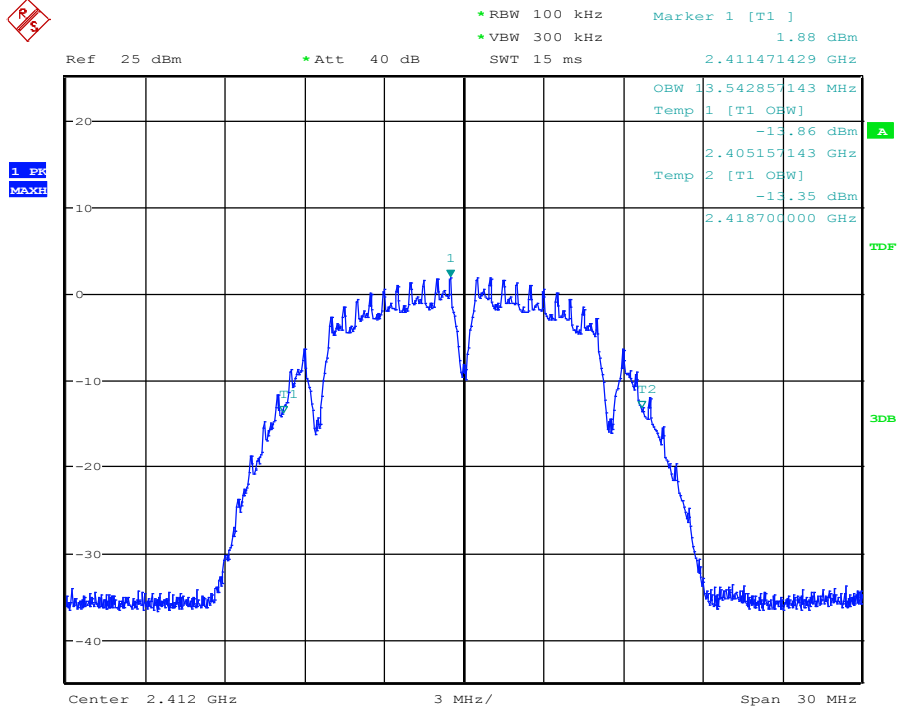


**Measurement**

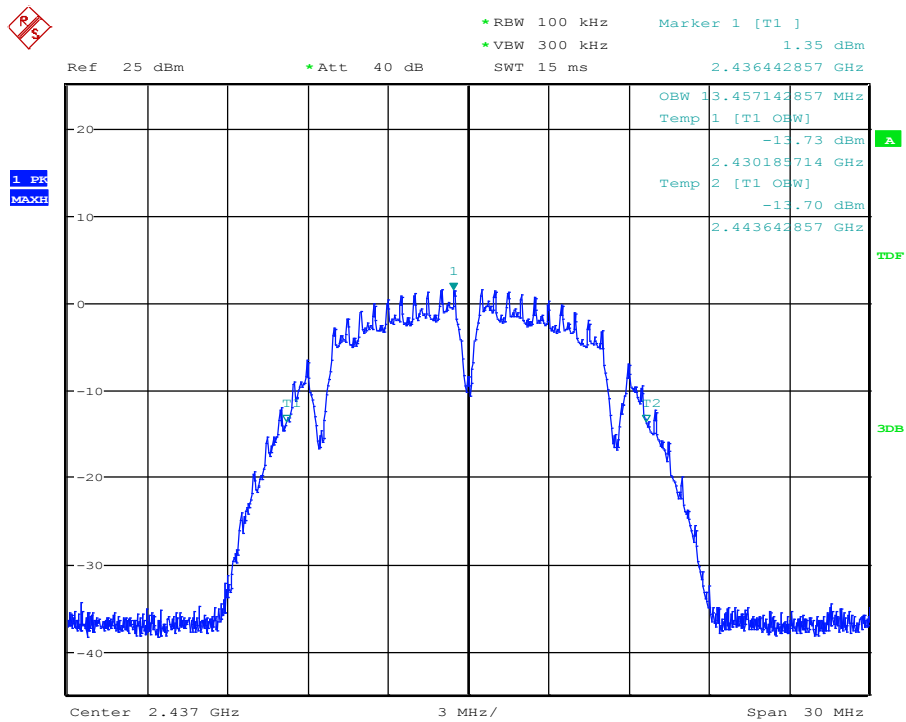
Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	401	~ 400
SweepTime	15.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	150 / max. 150	max. 150
Stable	6 / 15	15
Max Stable Difference	0.00 dB	0.50 dB

## 1.5. 99% Bandwidth Measurements

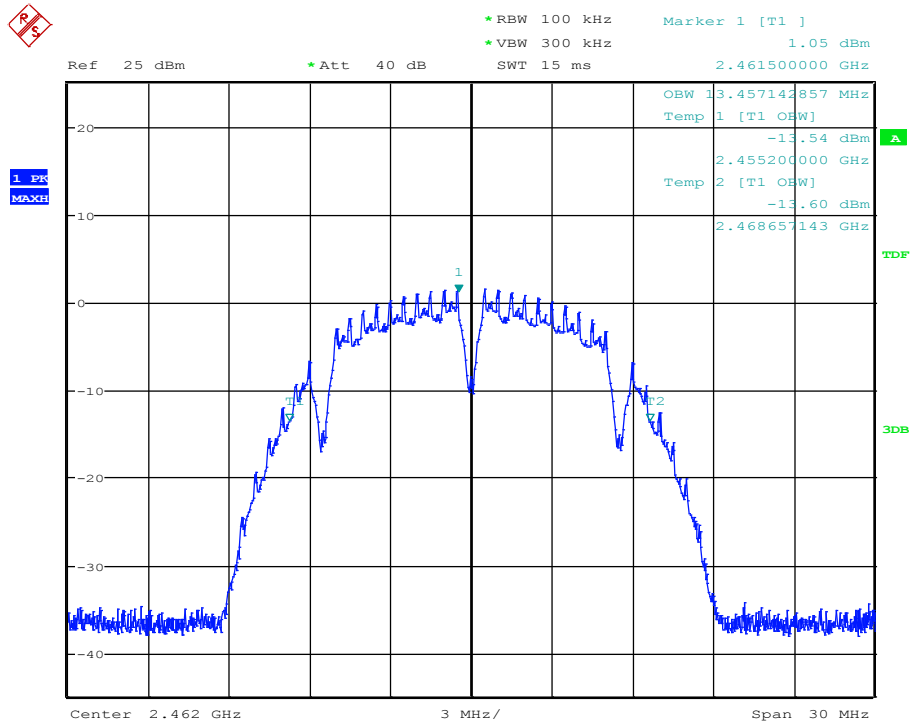
### 1.5.1. b-Mode



Plot 9: b-mode, channel 1, 1Mbit

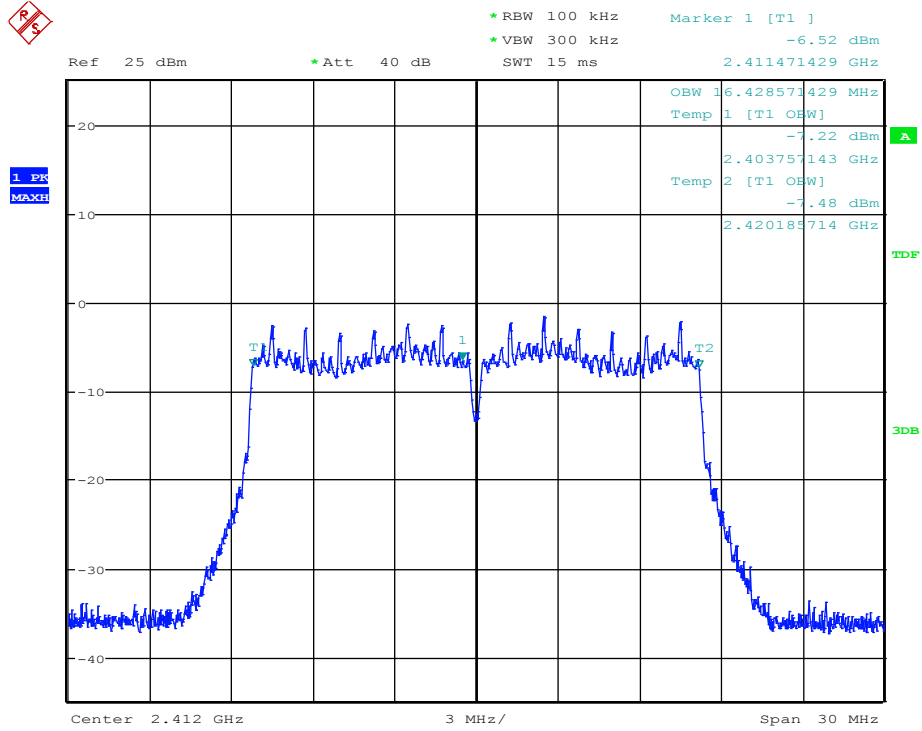


Plot 10: b-mode, channel 6, 1Mbit

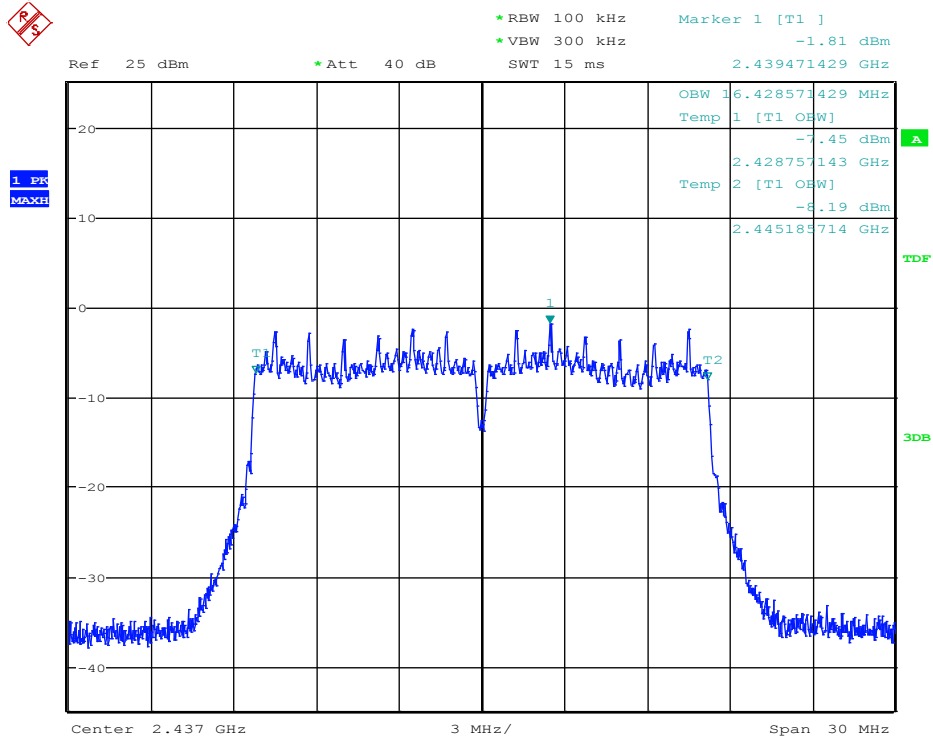


**Plot 11: b-mode, channel 11, 1Mbit**

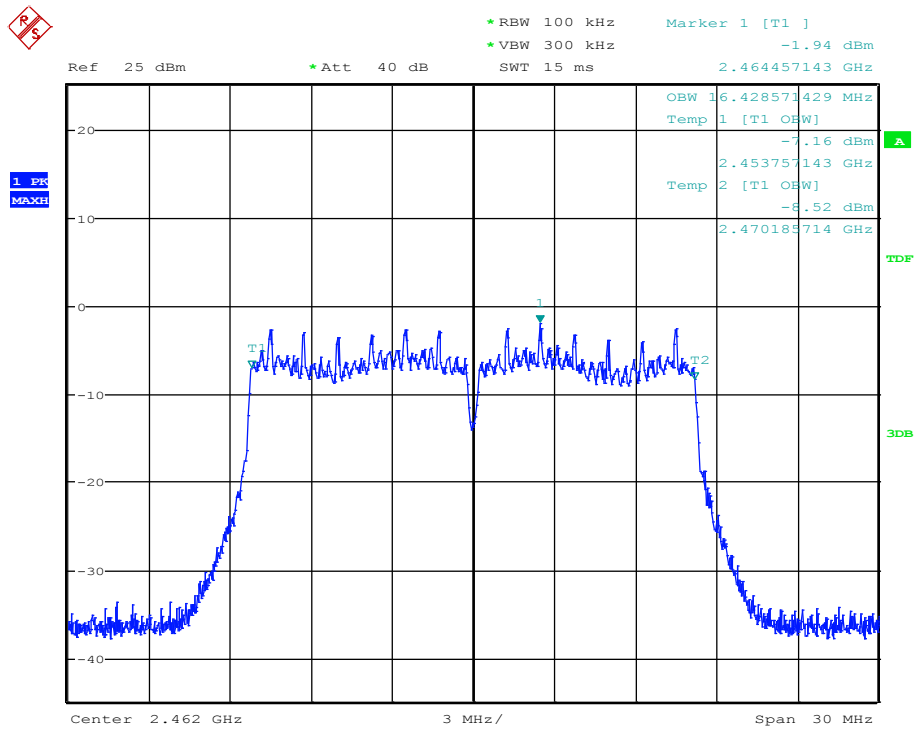
## 1.5.2. g-Mode



Plot 12: g-mode, channel 1, 12Mbit

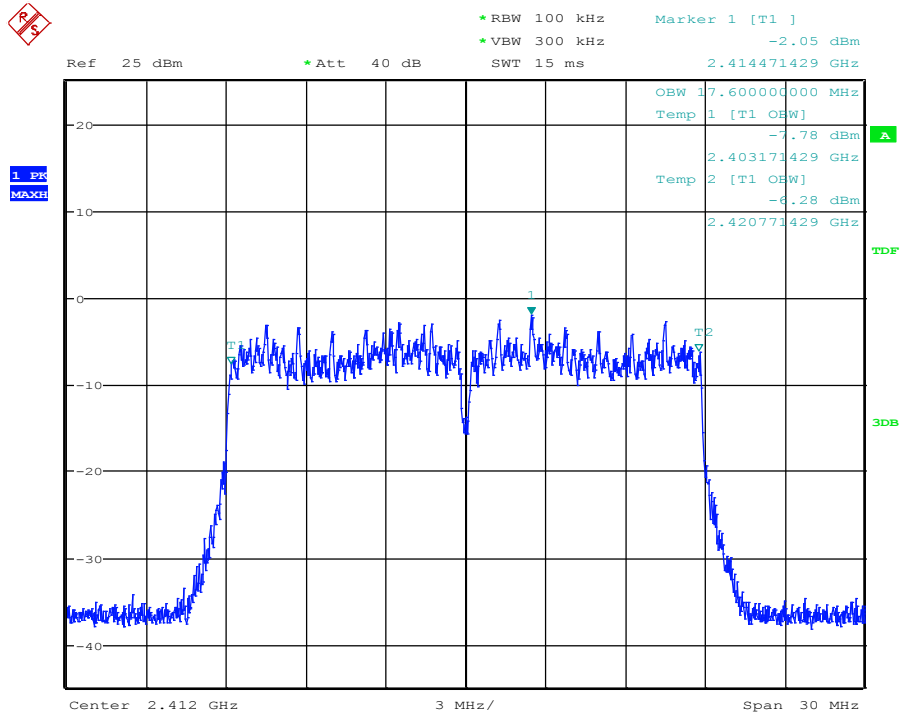


Plot 13: g-mode, channel 6, 12Mbit

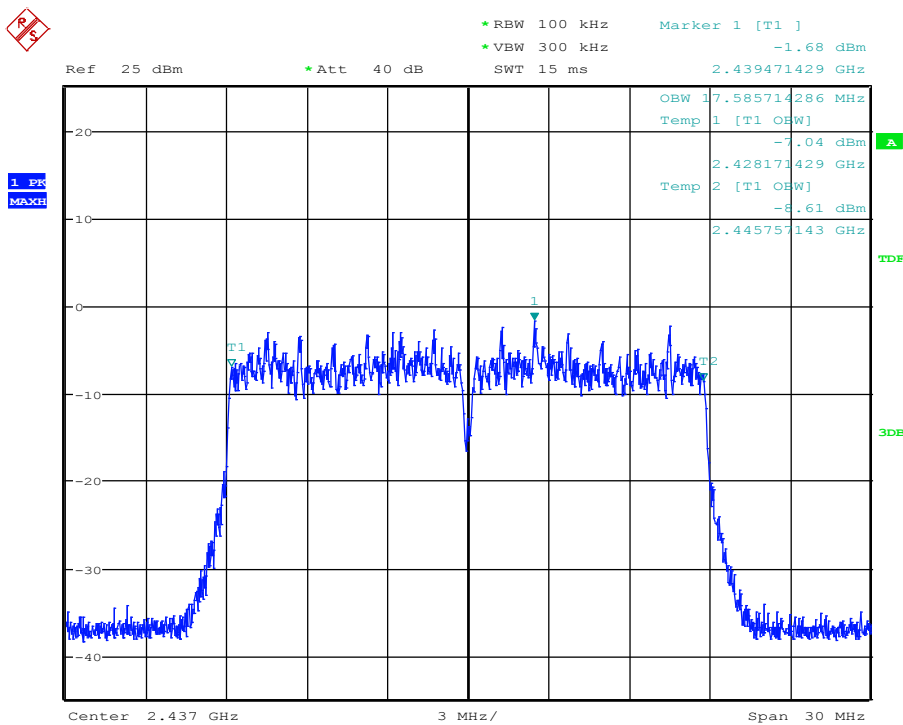


Plot 14: g-mode, channel 12, 12Mbit

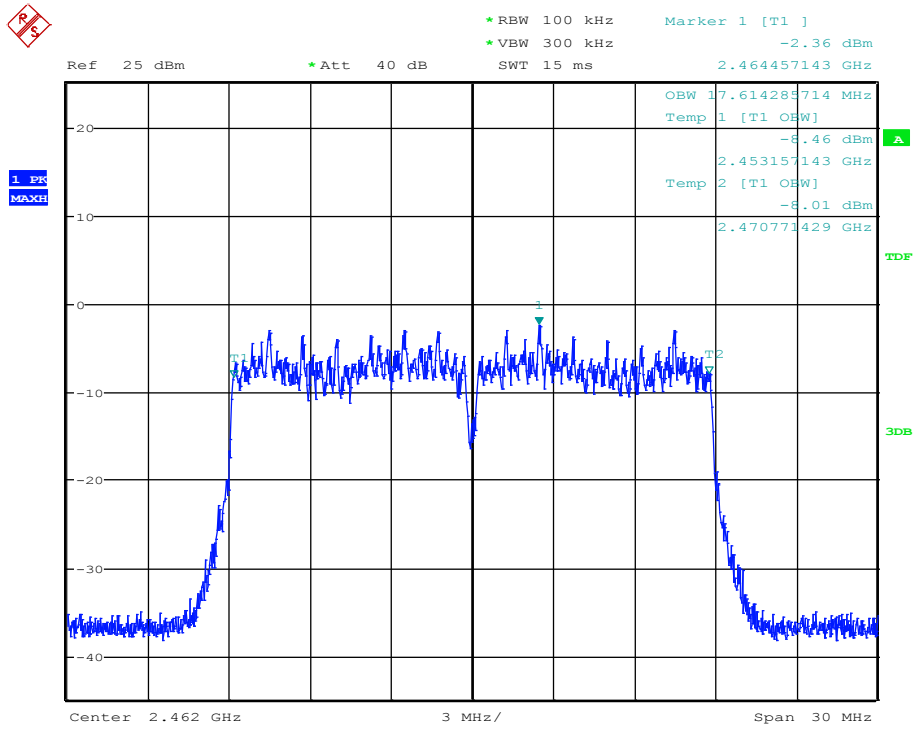
### 1.5.3. n-Mode



Plot 15: n-mode HT20, channel 1, MCS6



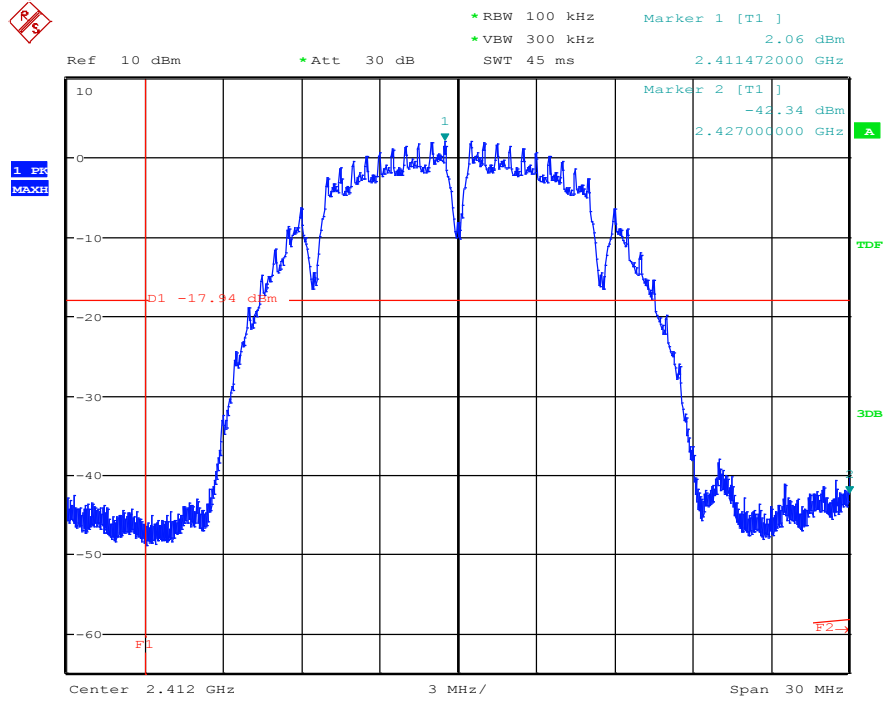
Plot 16: n-mode HT20, channel 6, MCS6



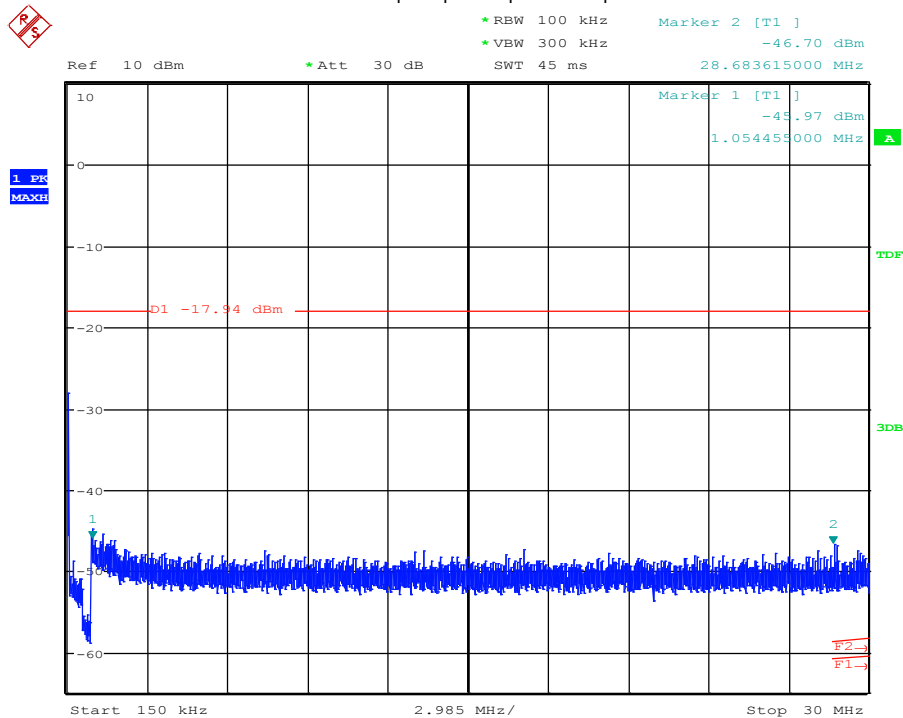
**Plot 17: n-mode HT20, channel 11, MCS6**

### 1.6. 20dBc Measurement

#### 1.6.1. bMode 0,15MHz – 25 GHz CH01

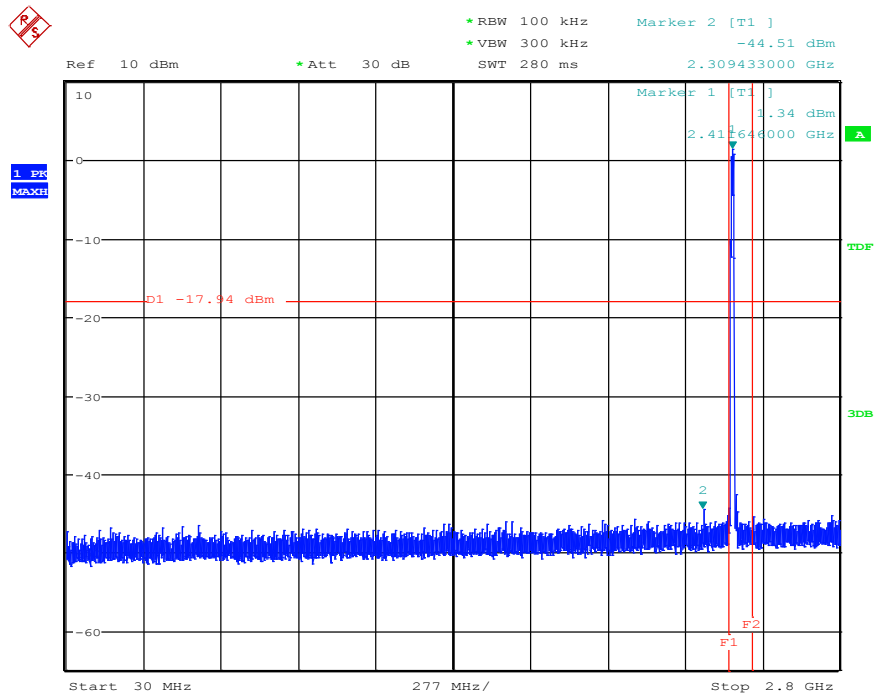


Plot 18: 20dBc | ref | ch01 | b-mode | 1MBit

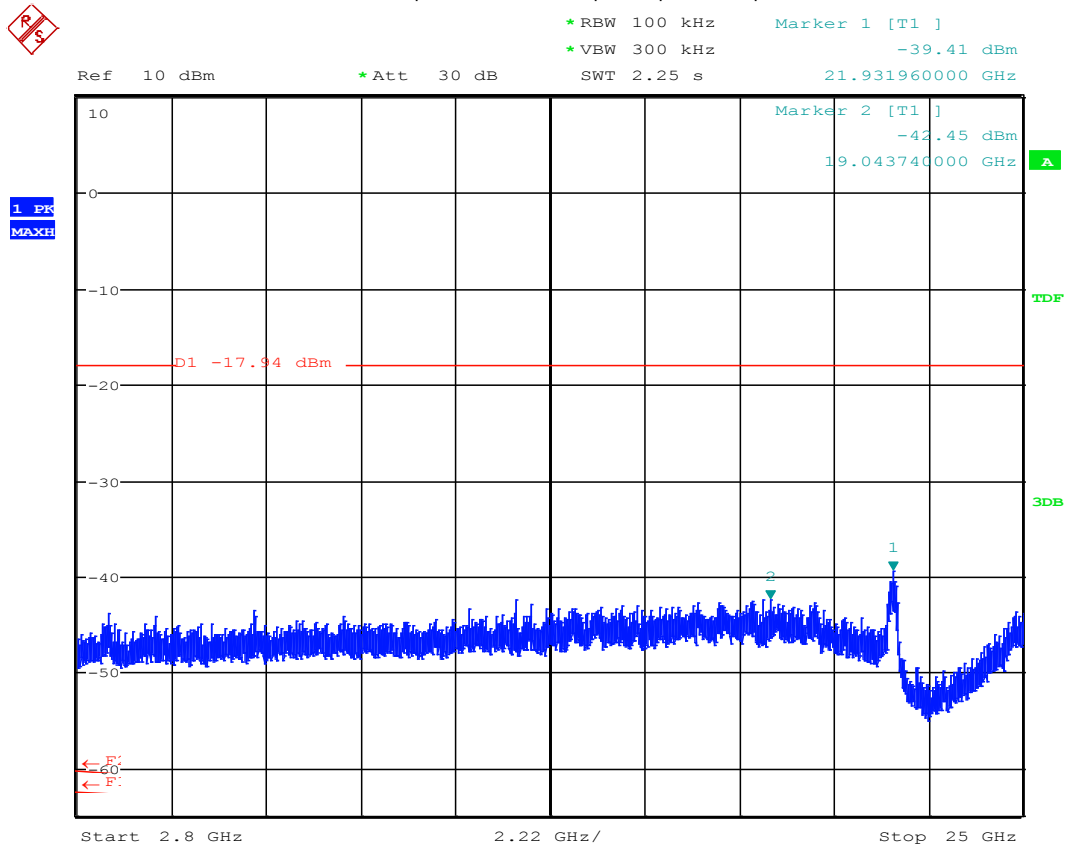


Plot 19: 20dBc | 0.15-30MHz | ch01 | b-mode | 1MBit



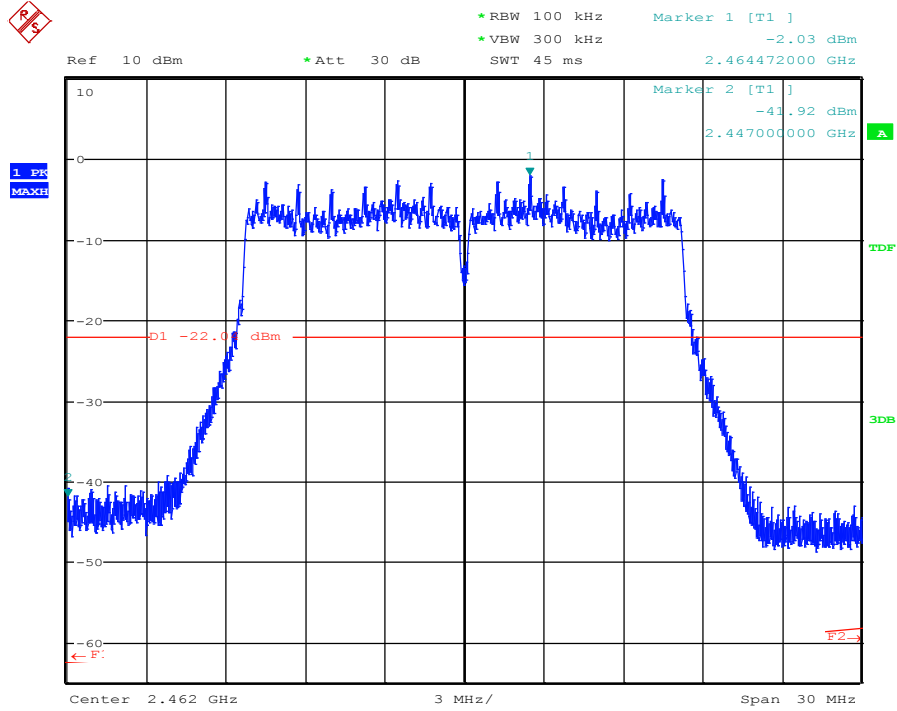


**Plot 20: 20dBc | 30MHz-2.8GHz | ch01 | b-mode | 1MBit**

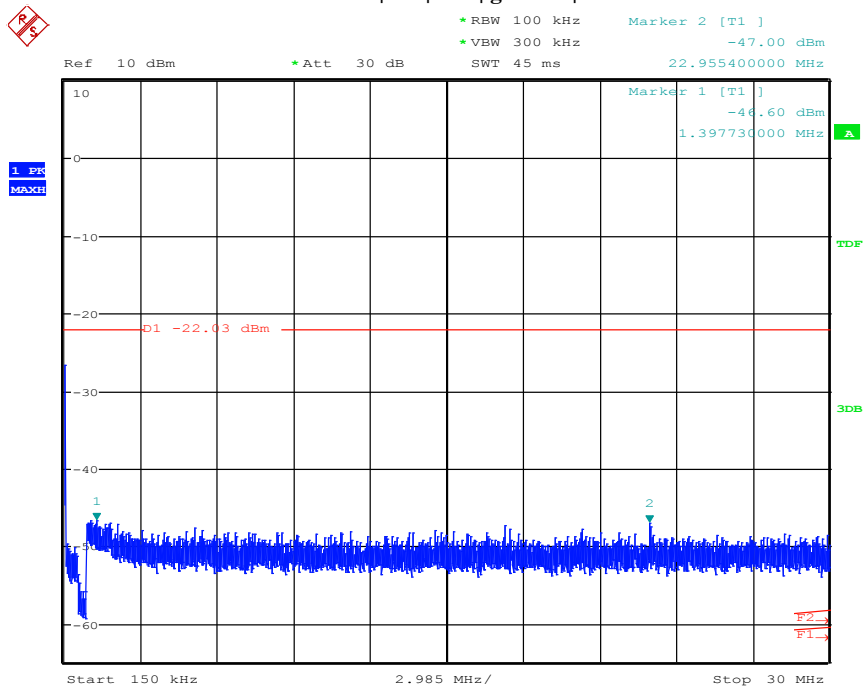


**Plot 21: 20dBc | 2.8GHz-25GHz | ch01 | b-mode | 1MBit**

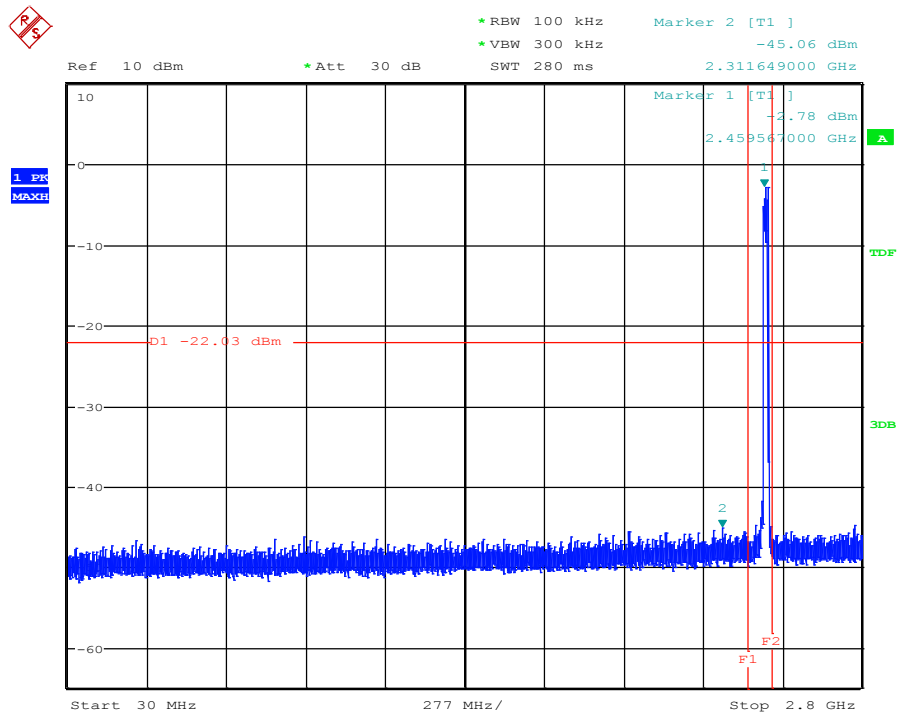
### 1.6.2. g Mode 0,15MHz – 25GHz CH11



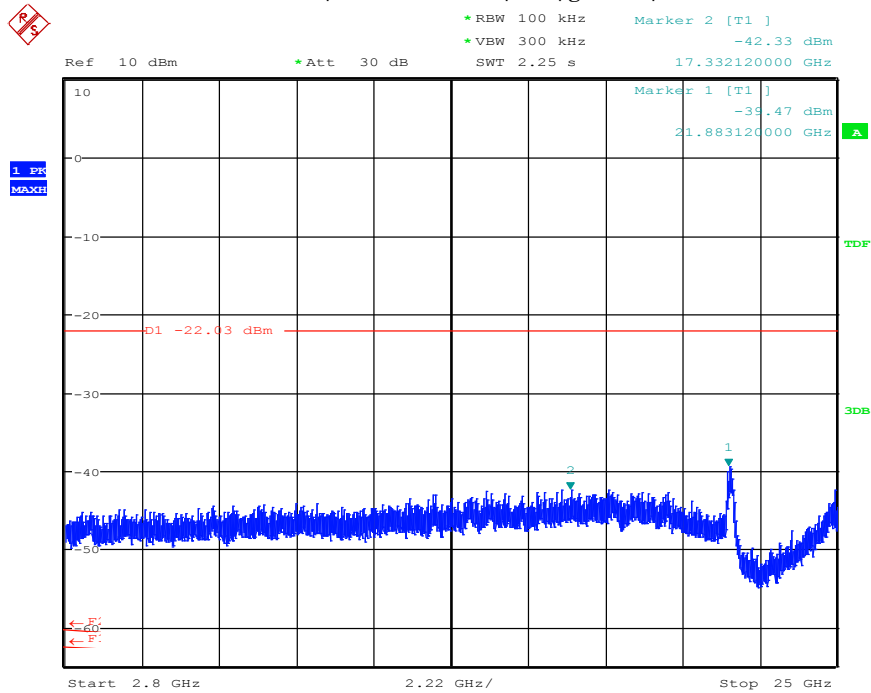
Plot 22: 20dBc | ref | ch1 | g-mode | 1MBit



Plot 23: 20dBc | 0.15-30MHz | ch1 | g-mode | 1MBit

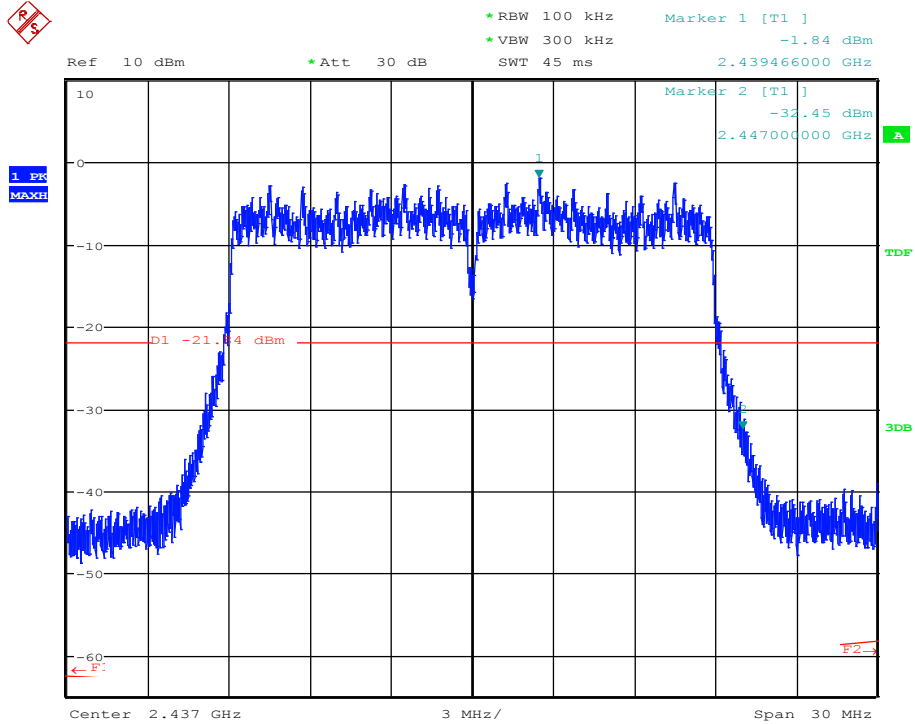


**Plot 24: 20dBc | 30MHz-2.8GHz | ch1 | g-mode | 1Mbit**

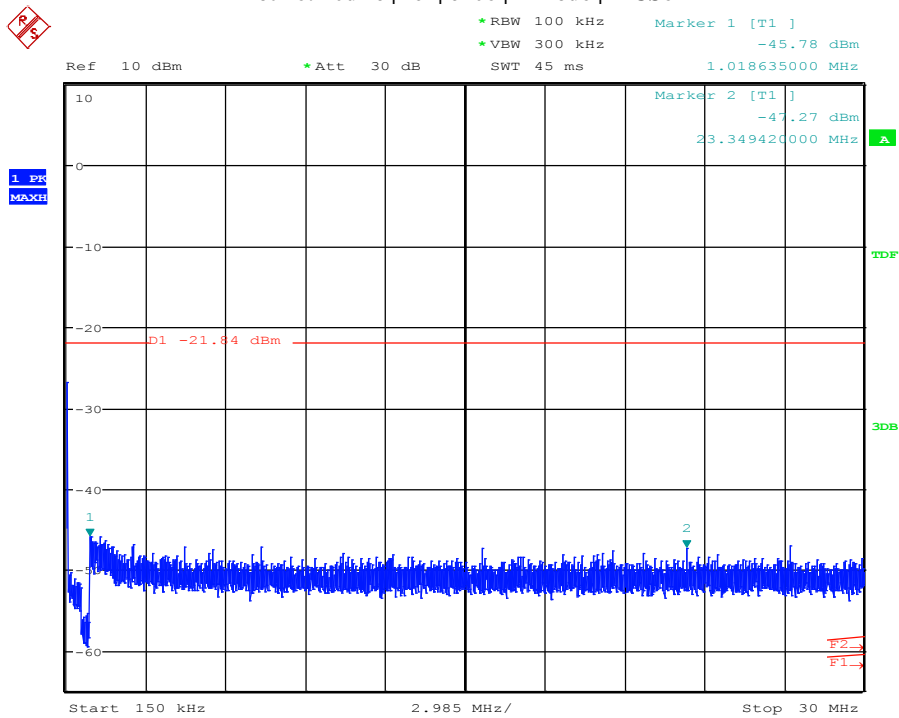


**Plot 25: 20dBc | 2.8GHz-25GHz | ch1 | g-mode | 1Mbit**

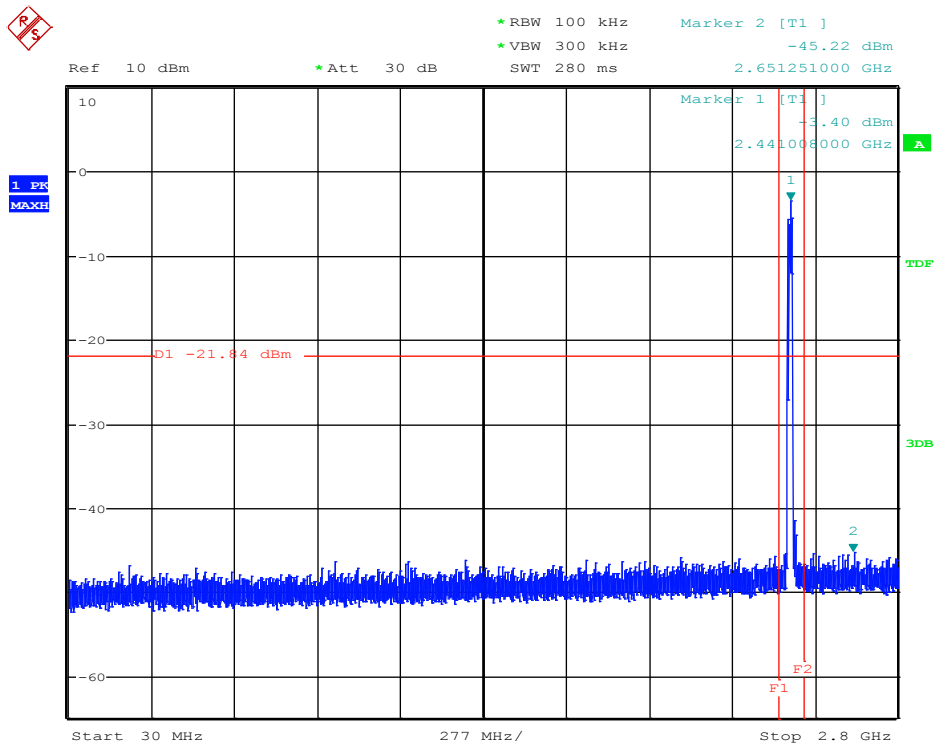
### 1.6.3. n Mode 0,15MHz – 25 GHz CH06



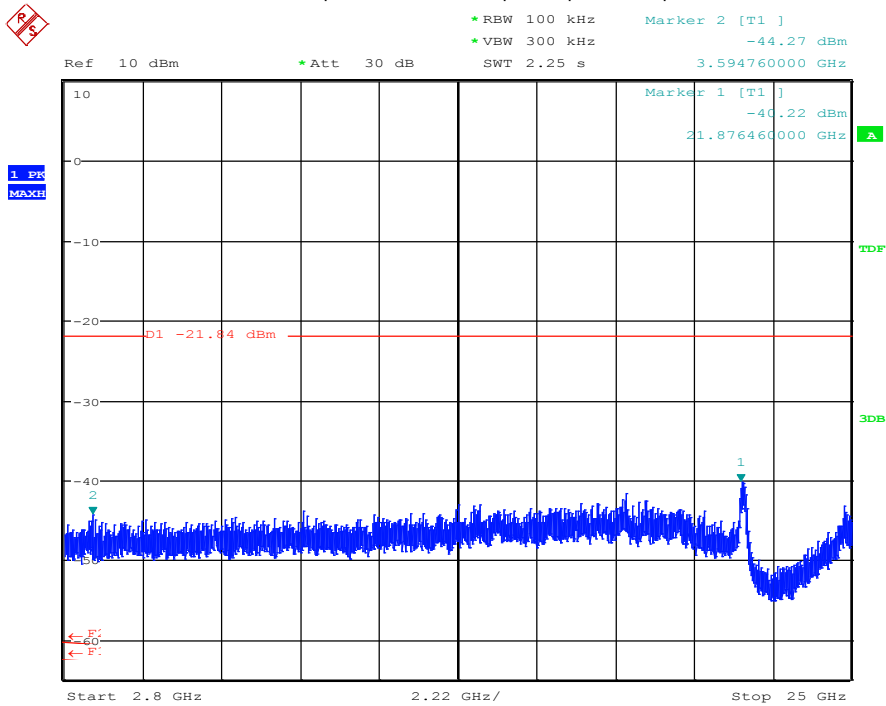
Plot 26: 20dBc | ref | ch06 | n-mode | MCS6



Plot 27: 20dBc | 0.15-30MHz | ch06 | n-mode | MCS6



**Plot 28: 20dBc | 30MHz-2.8GHz | ch06 | n-mode | MCS6**



**Plot 29: 20dBc | 2.8GHz-25GHz | ch06 | n-mode | MCS6**

## 2. Radiated Field Strength Measurements

### 2.1. Radiated Field Strength Emissions – 9 kHz to 30 MHz

#### 2.01a\_WLAN\_g mode\_12Mbps\_Ch11

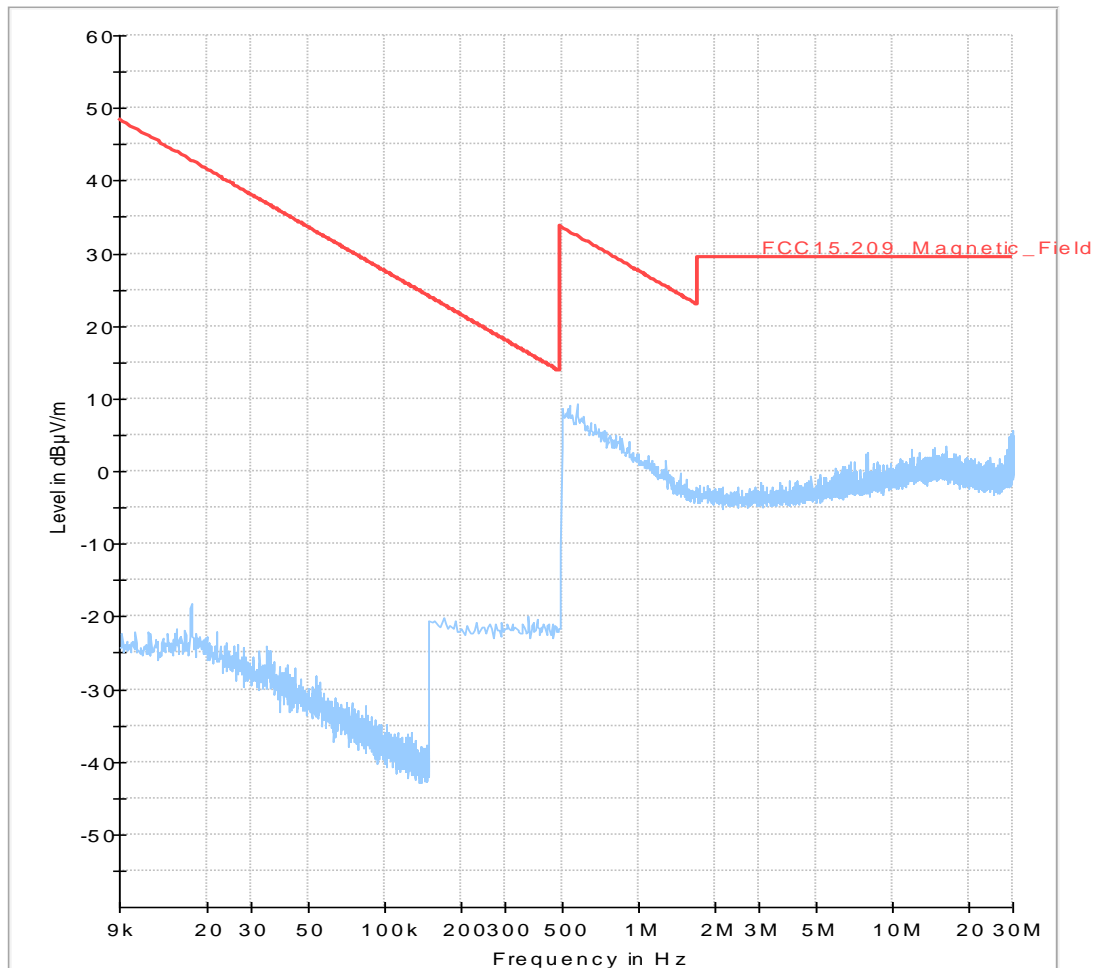
##### Common Information

Test Description:	
Operating Conditions:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Operator Name:	SRa
Comment:	b   1 Mbit   Ch 1   Power level 14

##### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	cTP/TDC MID DTNA-4G

-----	-----
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24 V DC



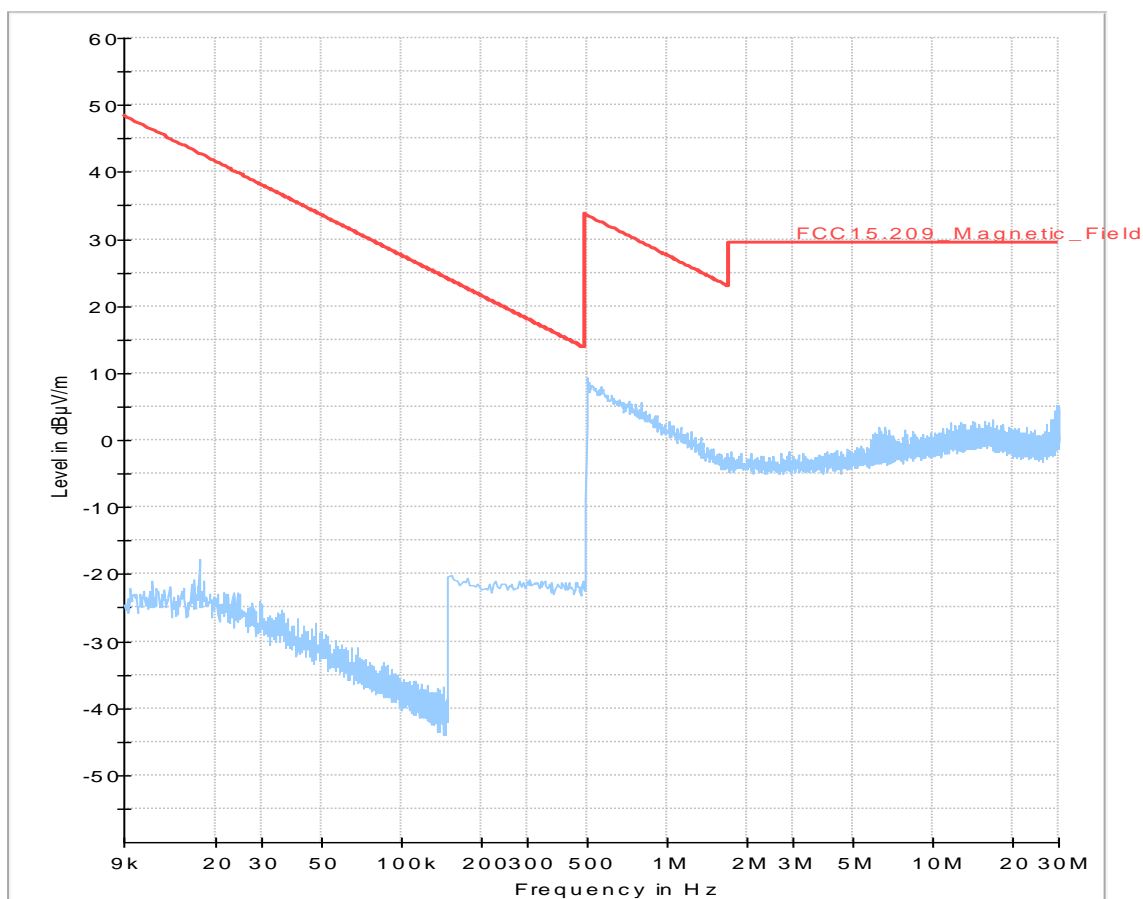
## 2.02a\_WLAN\_g mode\_12Mbps\_Ch11

### Common Information

Test Description:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Operating Conditions:	SRa
Operator Name:	SRa
Comment:	G Mode 12 Mbit Ch11 Power level 11

### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	cTP/TDC MID DTNA-4G
-----	-----
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24 V DC



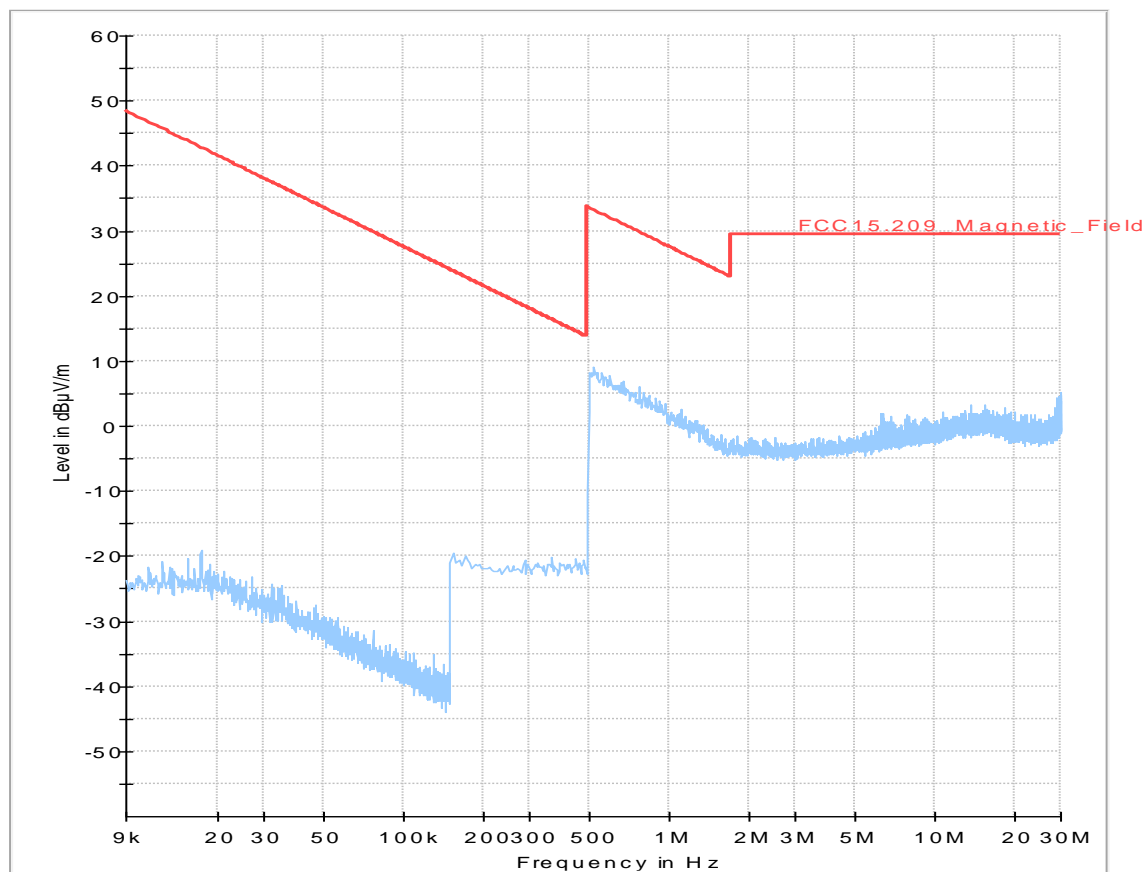
## 2.03a\_WLAN\_n mode\_MCS6\_Ch6

### Common Information

Test Description:  
Operating Conditions: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance  
Operator Name: SRa  
Comment: G Mode MCS6 Mbit Ch6 Power level 11

### EUT Information

Manufacturer: Robert Bosch Car Multimedia GmbH  
EuT: cTP/TDC MID DTNA-4G  
-----  
HW Version: 9134G05  
SW Version: 17.02.S.016  
Serial Number: 2950006922  
Connected Interfaces: Main wiring + DTNA Antenna  
Power Supply: 24 V DC





## 2.2. Radiated Field Strength Emissions – 30 MHz to 1 GHz

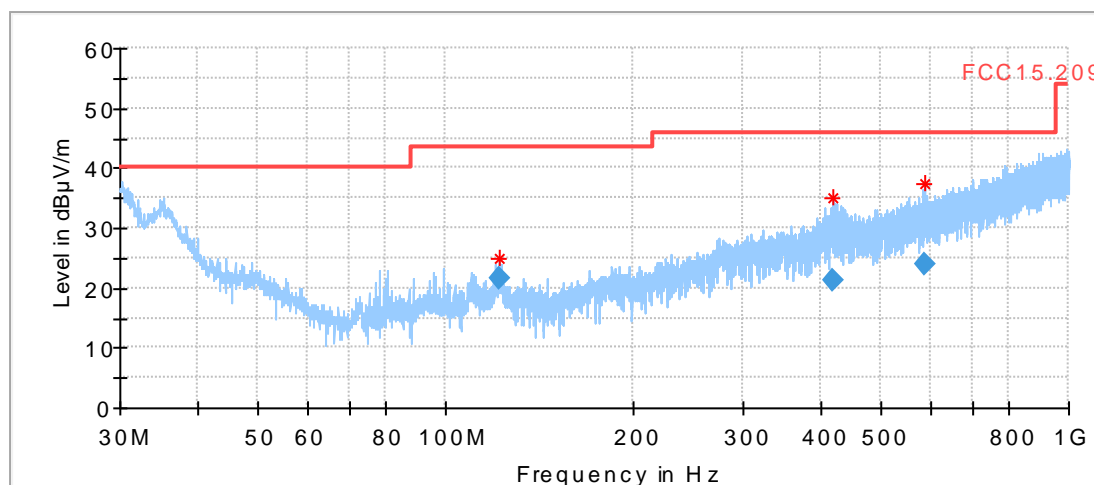
### Diagram No. 3.01a\_WLAN\_b mode\_1Mbps\_Ch1

Test description:	24.08.2017 Page 1 of 1
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 V9.25.0
Used filter:	not used
Technical Data:	not used
Test specification.:	please see page 2 for detailed data of measurement setup
	FCC 15.209; RSS-Gen: Issue 3
Operator:	DLe
Operating conditions:	WLAN TX
Power during tests:	12V DC
Comment 1:	b   1 Mbit   Ch 1   Power level 14

#### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
-----	
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014
Power Supply:	24 V DC

Full Spectrum



#### Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
121.776000	21.72	43.50	21.78	1000.0	120.000	109.0	V	106.0	90.0	8.0
419.092000	21.16	46.00	24.84	1000.0	120.000	360.0	V	192.0	0.0	18.8
587.268000	23.82	46.00	22.18	1000.0	120.000	118.0	H	149.0	90.0	21.9

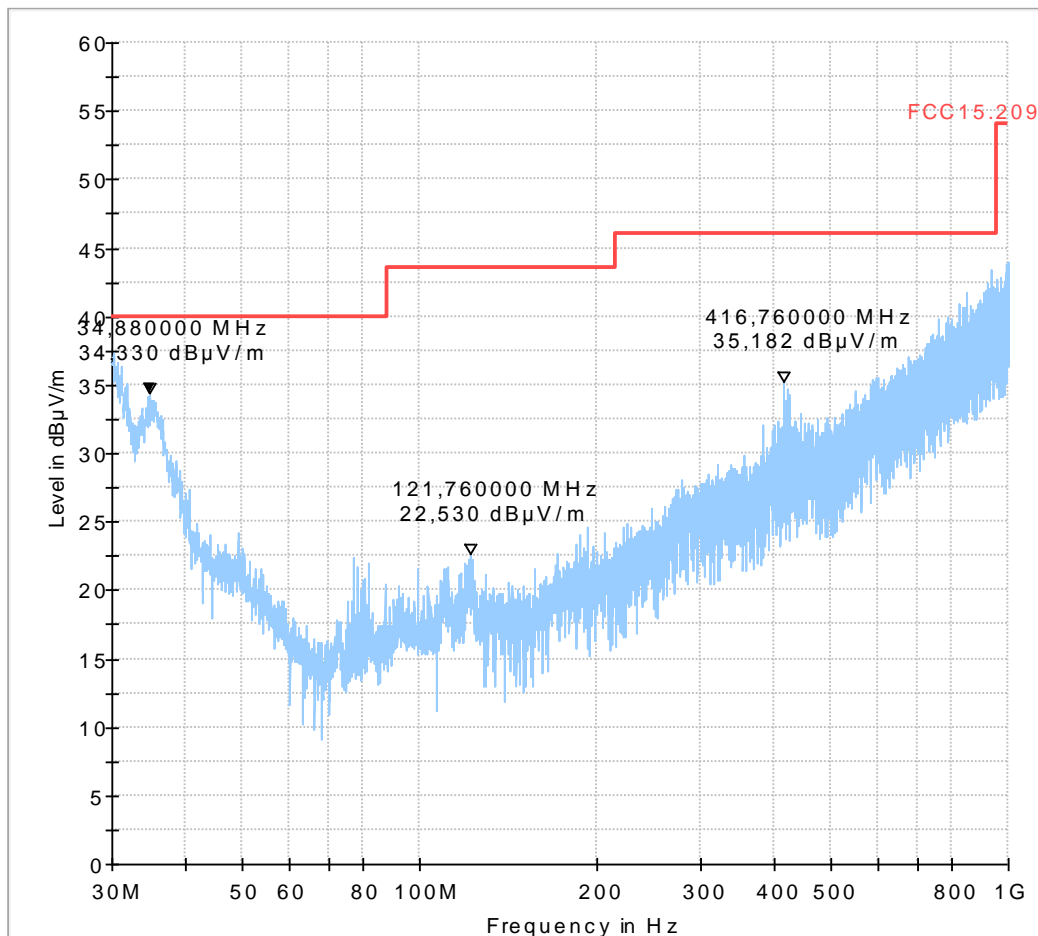
## Diagram No. 3.02a\_WLAN\_g mode\_11Mbps\_Ch11

Test description:	24.08.2017 Page 1 of 1
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 V9.25.0
Used filter:	not used
Technical Data:	not used
Test specification.:	please see page 2 for detailed data of measurement setup
	FCC 15.209; RSS-Gen: Issue 3
Operator:	DLe
Operating conditions:	WLAN TX
Power during tests:	12V DC
Comment 1:	g   11 Mbit   Ch 11   Power level 11

### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	ECU cTP_DIN
-----	
HW Version:	6797G04
SW Version:	16.099.2
Serial Number:	2830006236
Connected Interfaces:	Main wiring + SFTP 920 151 014
Power Supply:	24 V DC

Full Spectrum



### Diagram No. 3.03a\_WLAN\_n mode\_MCS6\_Ch6

25.08.2017 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 V9.25.0  
 Distance correction: not used  
 Used filter: not used  
 Technical Data: please see page 2 for detailed data of measurement setup  
 Test specification.: FCC 15.209; RSS-Gen: Issue 3

Operator: Sra  
 Operating conditions: WLAN TX  
 Power during tests: 12V DC  
 Comment 1: n(HT20) | MCS6 | Ch 6 | Power level 11

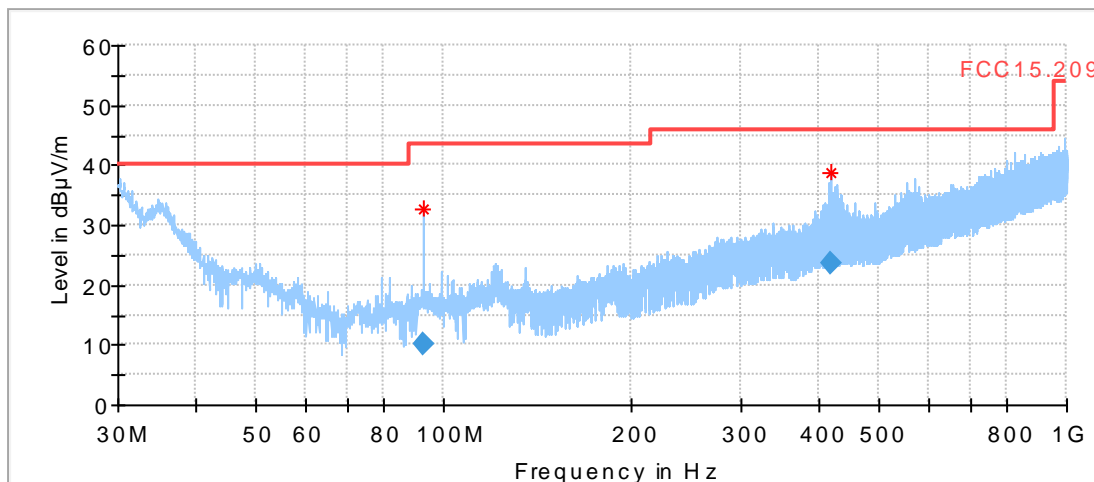
#### EUT Information

Manufacturer: Robert Bosch Car Multimedia GmbH  
 EuT: ECU cTP\_DIN

-----

HW Version: 6797G04  
 SW Version: 16.099.2  
 Serial Number: 2830006236  
 Connected Interfaces: Main wiring + SFTP 920 151 014  
 Power Supply: 24 V DC

Full Spectrum



#### Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
92.912000	10.06	43.50	33.44	1000.0	120.000	249.0	V	140.0	90.0	8.3
419.176000	23.52	46.00	22.48	1000.0	120.000	360.0	V	183.0	0.0	18.8

## 2.3. Radiated Field Strength Emissions – 1 GHz to 18 GHz

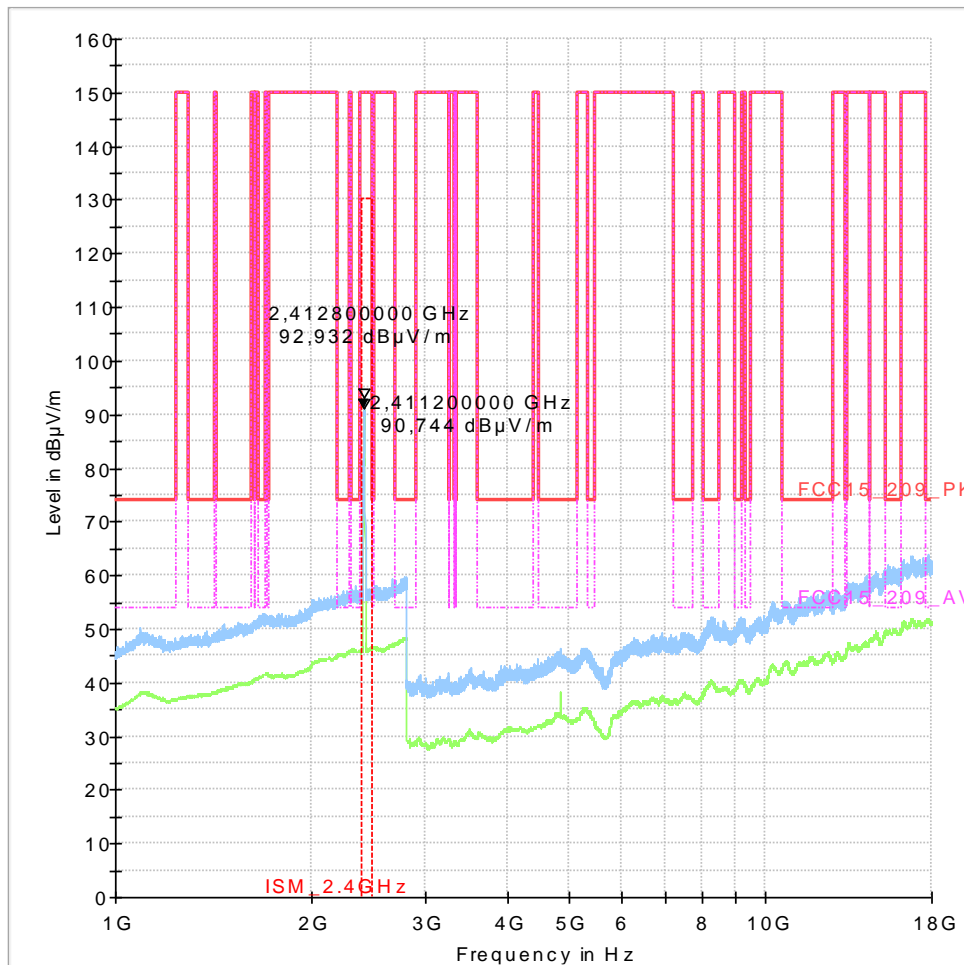
### Diagram No.: 4.01a\_WLAN\_b mode\_1Mbps\_Ch1

#### Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	TX, continuous
Operator Name:	DLe
Comment:	Ch_0
Comment2:	Modulation Type: 0Data Rate: 1Mbit

#### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	cTP/TDC MID DTNA-4G
-----	
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24 V DC



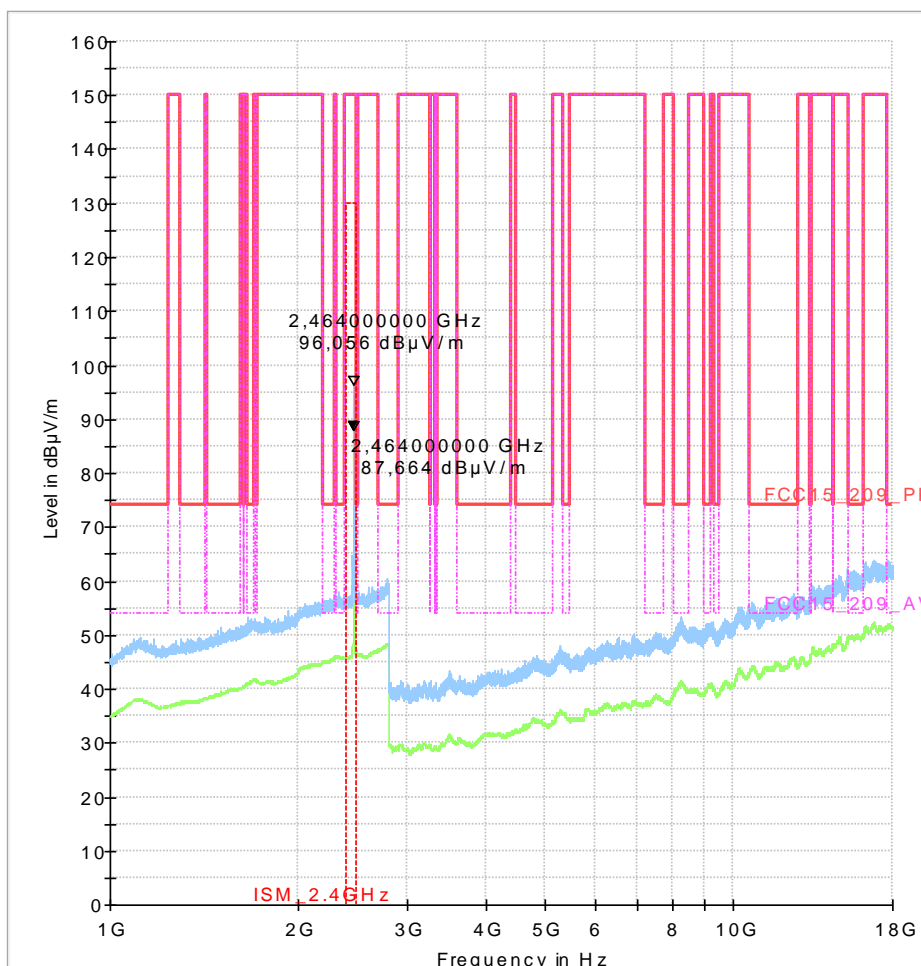
## Diagram No.: 4.02a\_WLAN\_g mode\_12Mbps\_Ch11\_Retest

### Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	g   12 Mbit   Ch 11   Power level 11
Operator Name:	RI
Comment:	

### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	cTP/TDC MID DTNA-4G
-----	
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24 V DC



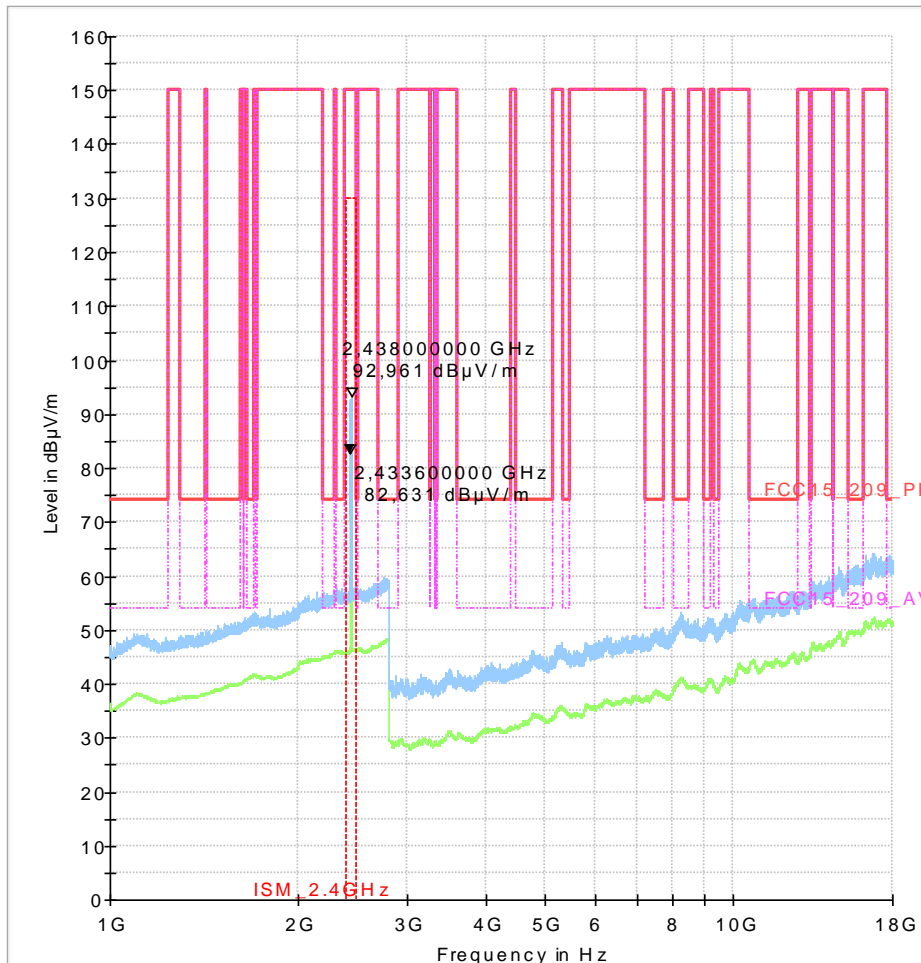
## Diagram No.: 4.03a\_WLAN\_n mode\_MCS6\_Ch6

### Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	n(HT20)   MCS6   Ch 6   Power level 11
Operator Name:	HEI

### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	cTP/TDC MID DTNA-4G
-----	
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24 V DC



## 2.4. Radiated Field Strength Emissions – 18 GHz to 25 GHz

### 4.01b\_Diagram No.: WLAN-1MBIT-CH1

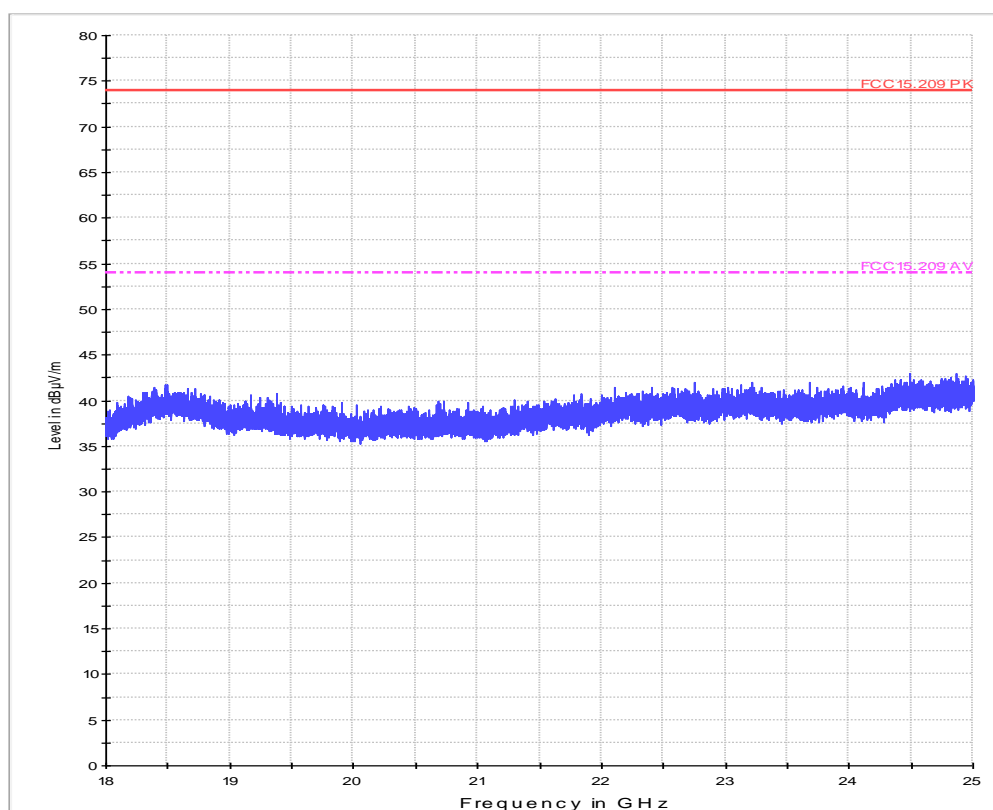
#### Common Information

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:	TFR

#### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	cTP/TDC MID DTNA-4G
-----	
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24 V DC

FCC\_Sweep\_15.247\_18\_25GHz\_Pre



## 4.02b\_Diagram No.: WLAN-12MBIT-CH11

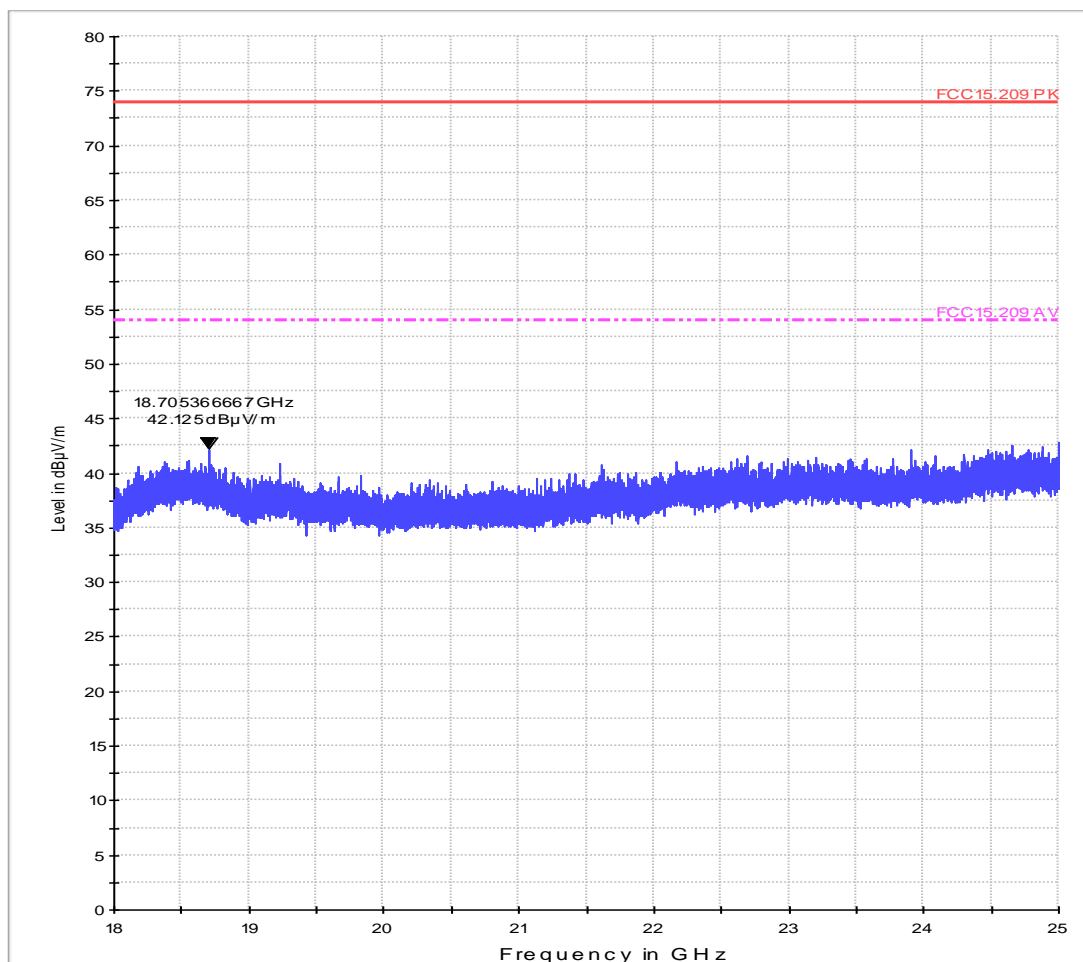
### Common Information

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:	TFR

### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	cTP/TDC MID DTNA-4G
-----	
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24 V DC

FCC\_Sweep\_15.247\_18\_25GHz\_Pre





### 4.03b\_Diagram No.: WLAN-MCS6-CH6

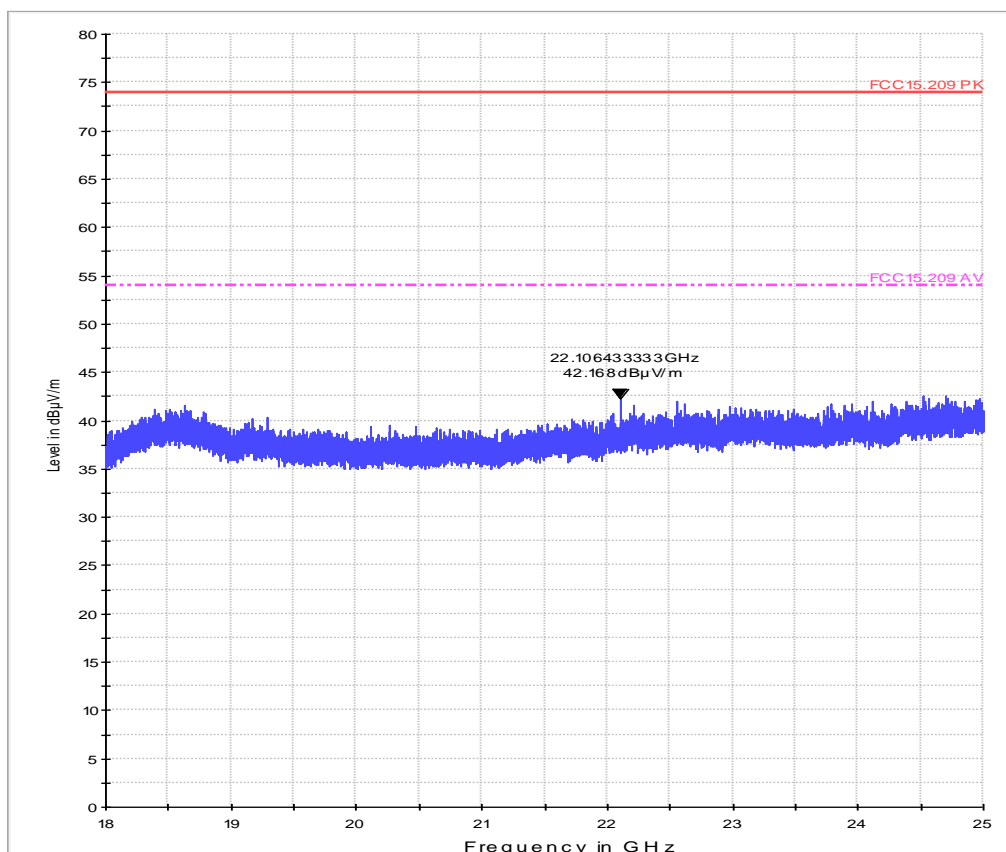
#### Common Information

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:	TFr

#### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	cTP/TDC MID DTNA-4G
-----	
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24 V DC

FCC\_Sweep\_15.247\_18\_25GHz\_Pre



### 3. Radiated Band-Edge Measurements

#### 3.1. b SISO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge)

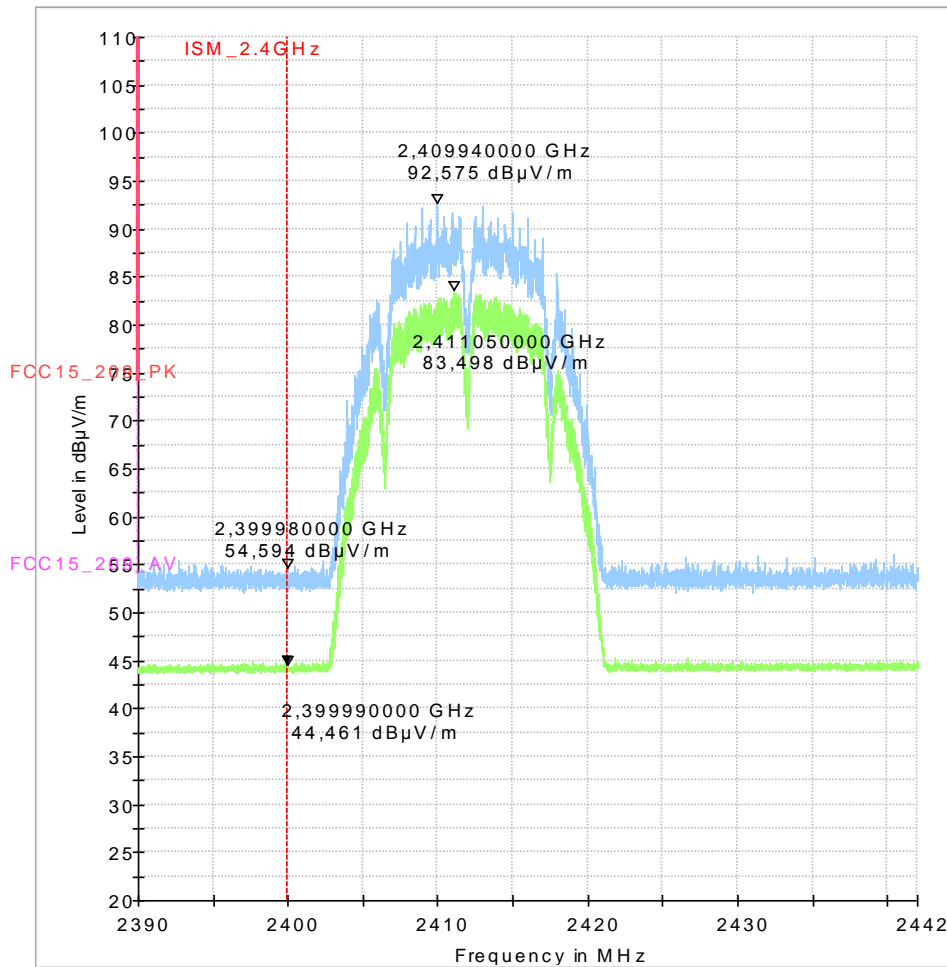
#### Diagram No.: 9.01a\_BE\_WLAN\_b mode\_1Mbps\_Ch1

##### Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	b   1 Mbit   Ch 1   Power level 14
Operator Name:	RIs
Comment:	

##### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	cTP/TDC MID DTNA-4G
-----	
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24 V DC



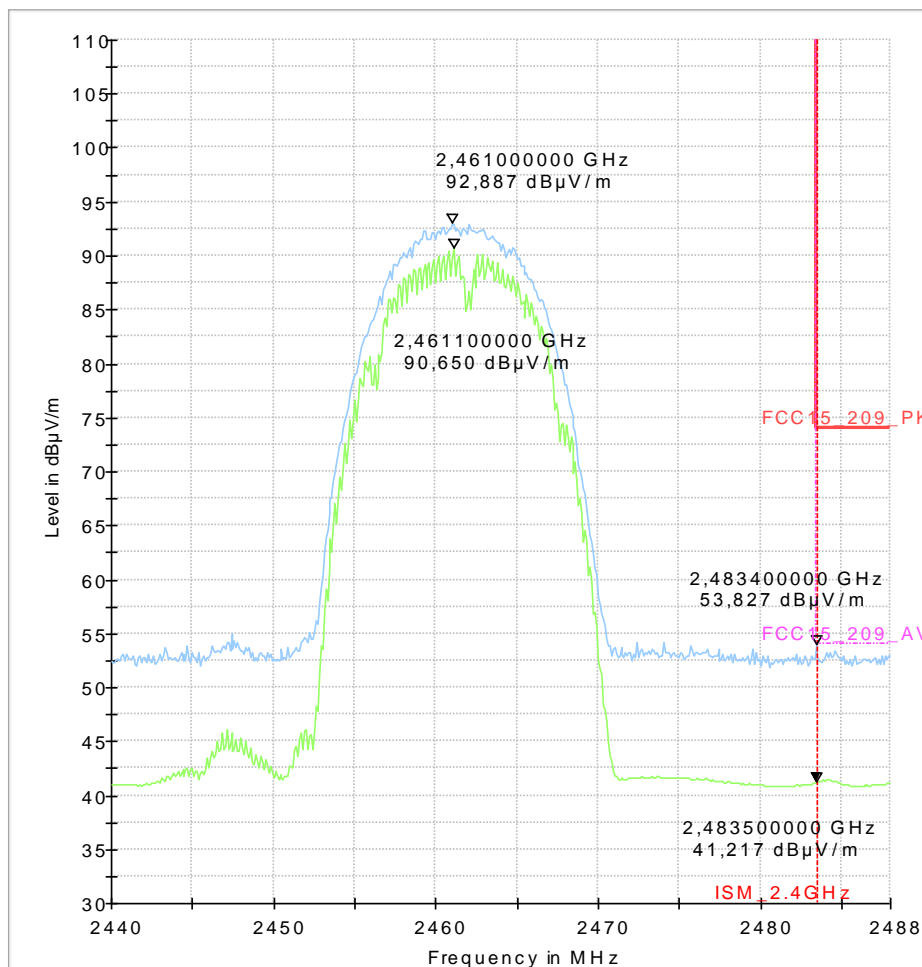
### 3.2. b SISO Mode-High Channel 2462 MHz ( 2.4 GHz ISM: right band edge) Diagram No.: 9.02a\_BE\_WLAN\_b mode\_1Mbps\_Ch11

#### Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	b   1 Mbit   Ch 1   Power level 14
Operator Name:	RI
Comment:	

#### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	cTP/TDC MID DTNA-4G
-----	
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24 V DC



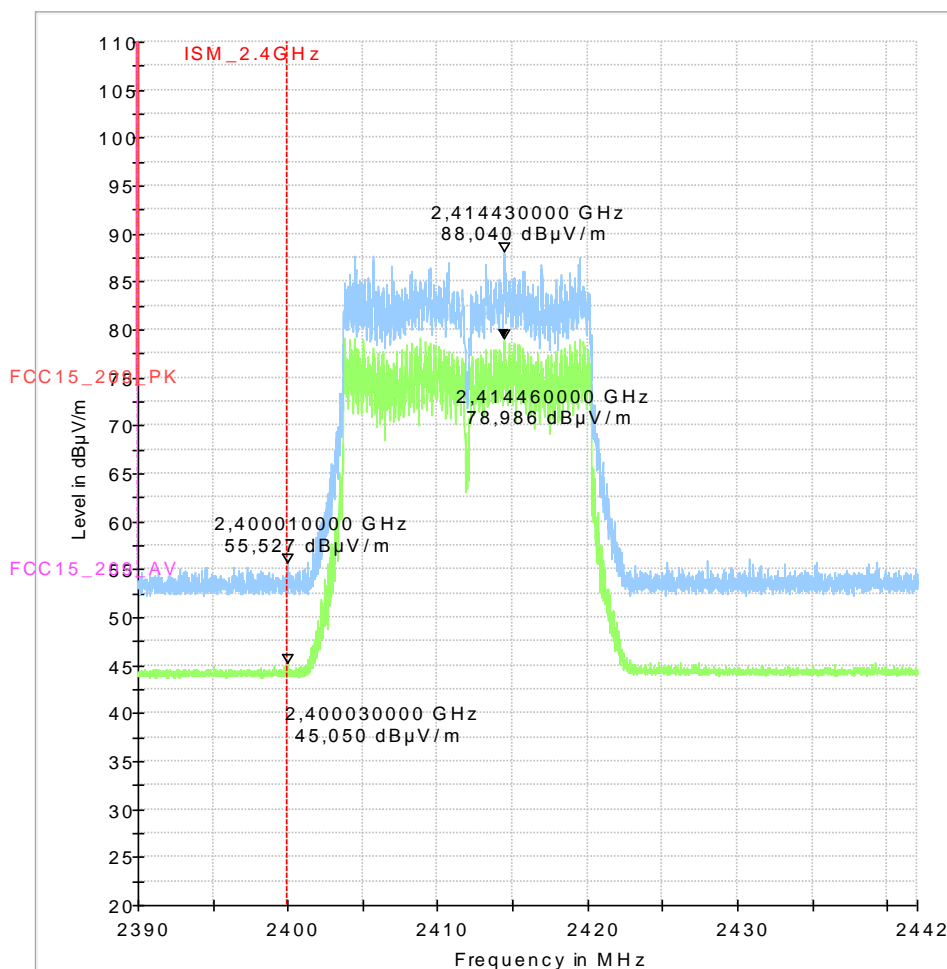
### 3.3. g SISO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge) Diagram No.: 9.03a\_BE\_WLAN\_g mode\_12Mbps\_Ch1

#### Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	g   12 Mbit   Ch 11   Power level 11
Operator Name:	RI
Comment:	

#### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	cTP/TDC MID DTNA-4G
-----	
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24 V DC



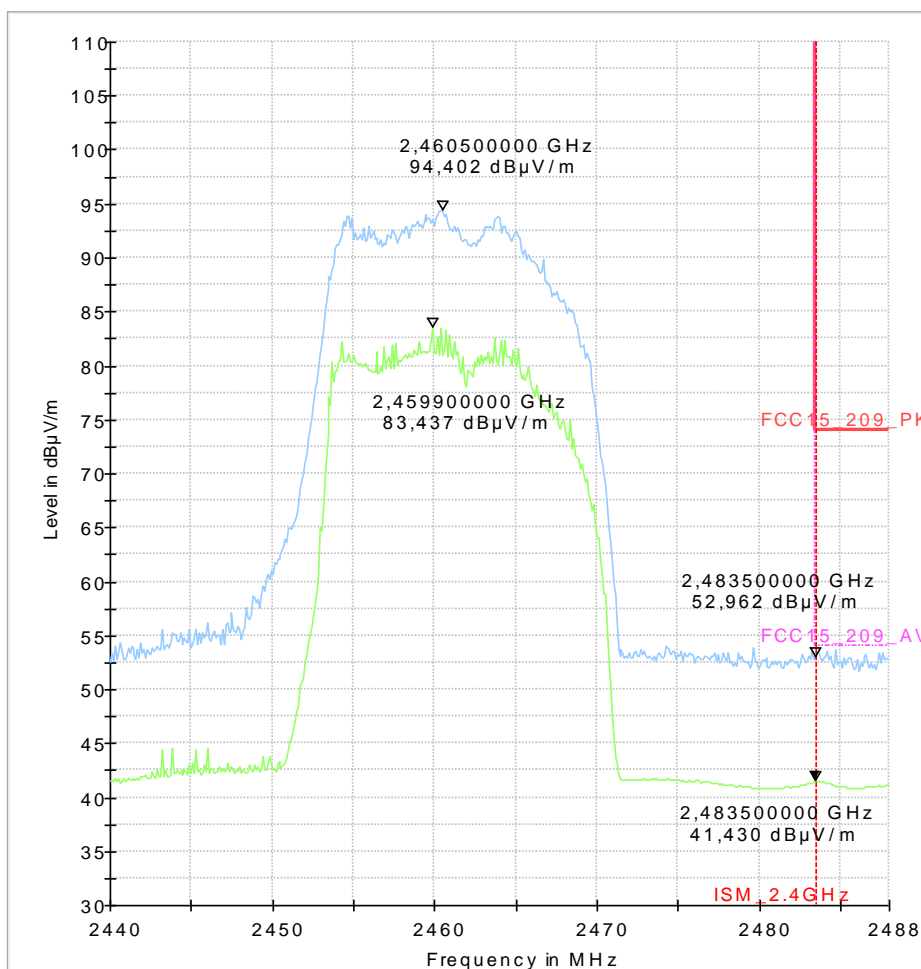
### 3.4. g SISO Mode-High Channel 2462 MHz ( 2.4 GHz ISM: right band edge) Diagram No.: 9.04a\_BE\_WLAN\_g mode\_12Mbps\_Ch11

#### Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	g   12 Mbit   Ch 11  Power level 11
Operator Name:	RI
Comment:	

#### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	cTP/TDC MID DTNA-4G
-----	
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24 V DC



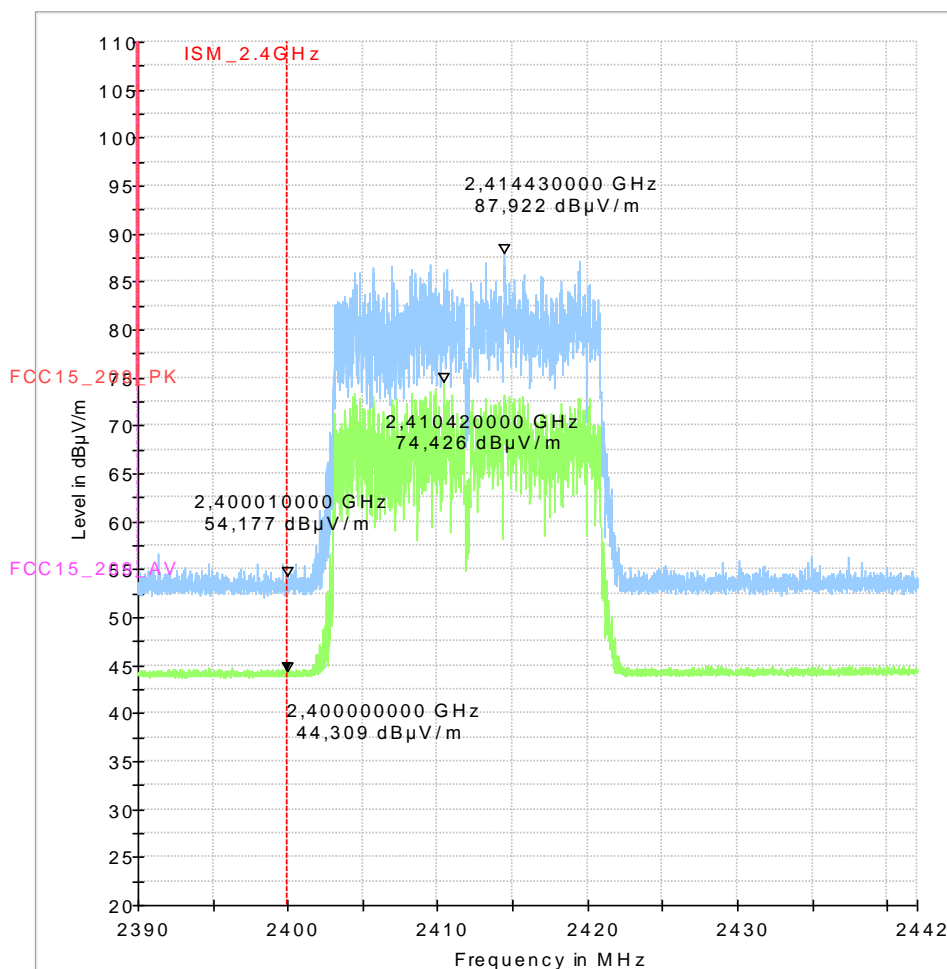
### 3.5. n SISO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge) Diagram No.: 9.05a\_BE\_WLAN\_n mode\_MCS6\_Ch1

#### Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	n(HT20)   MCS6   Ch 1   Power level 11
Operator Name:	RI
Comment:	

#### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	cTP/TDC MID DTNA-4G
-----	
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24 V DC



### 3.6. n SISO Mode-High Channel 2462 MHz ( 2.4 GHz ISM: right band edge) Diagram No.: 9.06a\_BE\_WLAN\_n mode\_MCS6\_Ch11

#### Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4
Antenna polarisation:	horizontal/vertical
Operation mode:	n(HT20)   MCS6   Ch 6   Power level 11
Operator Name:	RI
Comment:	

#### EUT Information

Manufacturer:	Robert Bosch Car Multimedia GmbH
EuT:	cTP/TDC MID DTNA-4G
-----	
HW Version:	9134G05
SW Version:	17.02.S.016
Serial Number:	2950006922
Connected Interfaces:	Main wiring + DTNA Antenna
Power Supply:	24 V DC

