

Annex 1: Measurement diagrams to
TEST REPORT
 No.: 16-1-0051801T04a

According to:
FCC Regulations
 Part 15.209
 Part 15.247

for
 Daimler Trucks North America

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Table of contents

1. CONDUCTED RF-MEASUREMENTS	3
1.1. RF output Power	3
1.2. Peak output Power	4
1.3. Duty Cycle Measurements.....	22
1.4. Power Spectral Density Measurements (b Mode).....	24
1.5. 6 dB Bandwidth Measurements (n Mode).....	33
1.6. 99% Bandwidth Measurements	42
1.7. 20dBc Measurement	51
2. RADIATED FIELD STRENGTH MEASUREMENTS	57
2.1. Radiated Field Strength Emissions – 9 kHz to 30 MHz	57
2.2. Radiated Field Strength Emissions – 30 MHz to 1 GHz	63
2.3. Radiated Field Strength Emissions – 1 GHz to 18 GHz	72
2.4. Radiated Field Strength Emissions – 18 GHz to 25 GHz	79
3. RADIATED BAND-EDGE MEASUREMENTS	82
3.1. b SISO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge).....	82
3.2. b SISO Mode-High Channel 2462 MHz (2.4 GHz ISM: right band edge).....	84
3.3. g SISO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge).....	86
3.4. g SISO Mode-High Channel 2462 MHz (2.4 GHz ISM: right band edge).....	88
3.5. n SISO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge).....	90
3.6. n SISO Mode-High Channel 2462 MHz (2.4 GHz ISM: right band edge).....	92

1. Conducted RF-Measurements

1.1. RF output Power

WLAN 2.4 GHz Conducted Peak Power Measurements					
EUT Information	EUT Name	ECU CTP_DIN		Hardware Version	6797G04
	Manufacturer	Robert Bosch Car Multimedia GmbH		Software Version	16/41/01
	Serial Number	2830006241		Antenna Gain	

WLAN 2.4GHz b-Mode		Channel No. (Frequency MHz)			b-Mode	Power Units
Data rate	Modulation	1 (2412)	6 (2437)	11 (2462)	Maximum Value	
1Mbit		14,38	14,27	14,05	14,48	dBm
2Mbit		14,48	14,21	13,99		
5.5Mbit		13,82	13,64	13,40		
11Mbit		14,11	13,91	13,38		
WLAN 2.4 GHz Conducted Peak Power Limits					30.0	dBm
WLAN 2.4GHz g-Mode		Channel No. (Frequency MHz)			g-Mode	Power Units
Data rate	Modulation	1 (2412)	6 (2437)	11 (2462)	Maximum Value	
6Mbit		10,66	10,54	10,21	10,81	dBm
9Mbit		10,73	10,51	10,25		
12Mbit		10,8	10,59	10,32		
18Mbit		10,69	10,56	10,23		
24Mbit		10,72	10,46	10,19		
36Mbit		10,68	10,39	10,07		
48Mbit		10,56	10,27	9,98		
54Mbit		10,81	10,55	10,18		
WLAN 2.4 GHz Conducted Peak Power Limits					30.0	dBm
WLAN 2.4GHz n-Mode HT20		Channel No. (Frequency MHz)			n-Mode HT20	Power Units
Data rate	Modulation	1 (2412)	6 (2437)	11 (2462)	Maximum Value	
MCS0 - 6.5Mbps	BPSK	10,89	10,38	10,09	10,89	dBm
MCS1 - 13Mbps	QPSK	10,85	10,41	10,1		
MCS2 - 19.5Mbps	QPSK	10,76	10,32	10,04		
MCS3 - 26Mbps	QAM16	10,57	10,44	10,16		
MCS4 - 39Mbps	QAM16	10,65	10,54	10,19		
MCS5 - 52Mbps	QAM64	10,63	10,41	10,13		
MCS6 - 58.5Mbps	QAM64	10,81	10,66	10,01		
MCS7 - 65Mbps	QAM64	10,75	10,52	10,1		
WLAN 2.4 GHz Conducted Peak Power Limits					30.0	dBm

1.2. Peak output Power

1.2.1. b-Mode [20 MHz| 2Mbit| Lowest Channel 1 (2412 MHz)

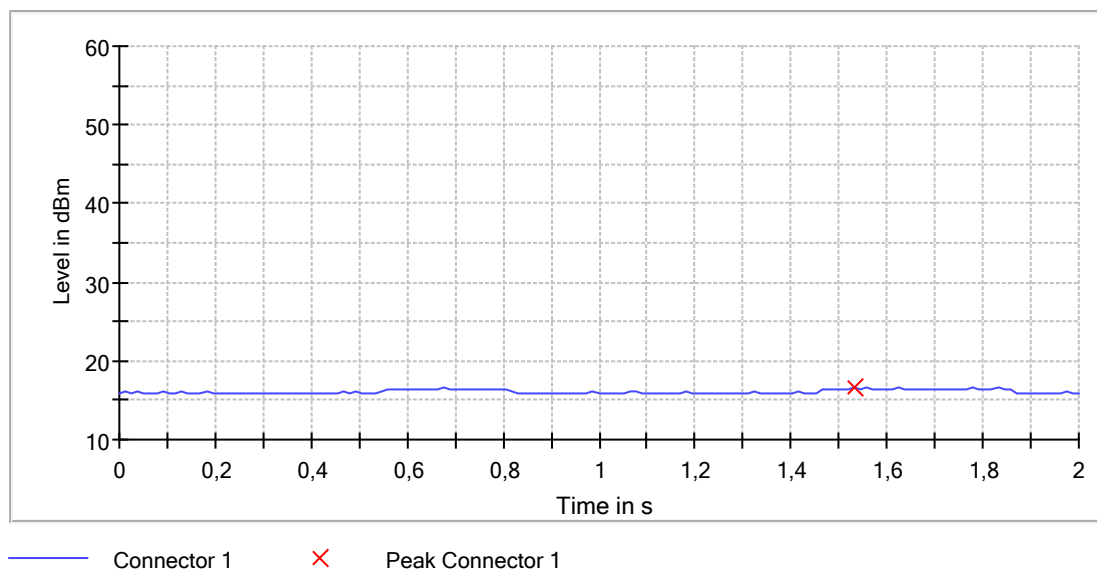
Peak output power (2412 MHz; b-Mode Worst-Case Modulation Type (14 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

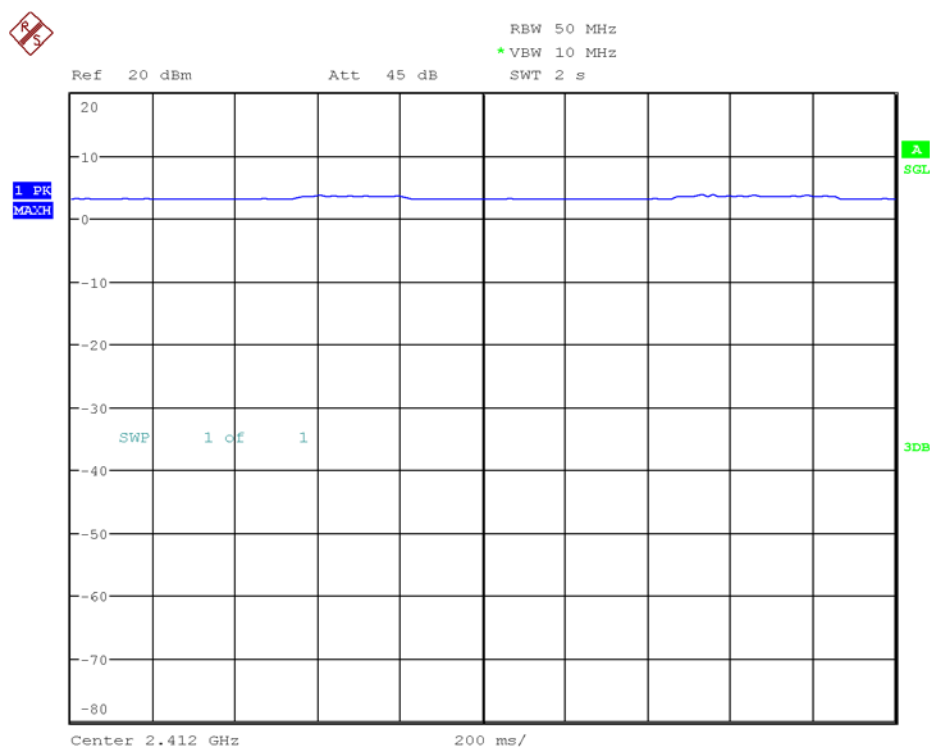
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2412.000000	16.6	30.0	PASS



Peak Power 1



Date: 27.JUN.2017 07:16:54

Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.41200 GHz	2.41200 GHz
Span	ZeroSpan	ZeroSpan
RBW	50.000 MHz	>= 20.000 MHz
VBW	10.000 MHz	>= 50.000 MHz
SweepPoints	155	~ 101
SweepTime	2.000 s	2.000 s
Reference Level	20.000 dBm	20.000 dBm
Attenuation	45.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

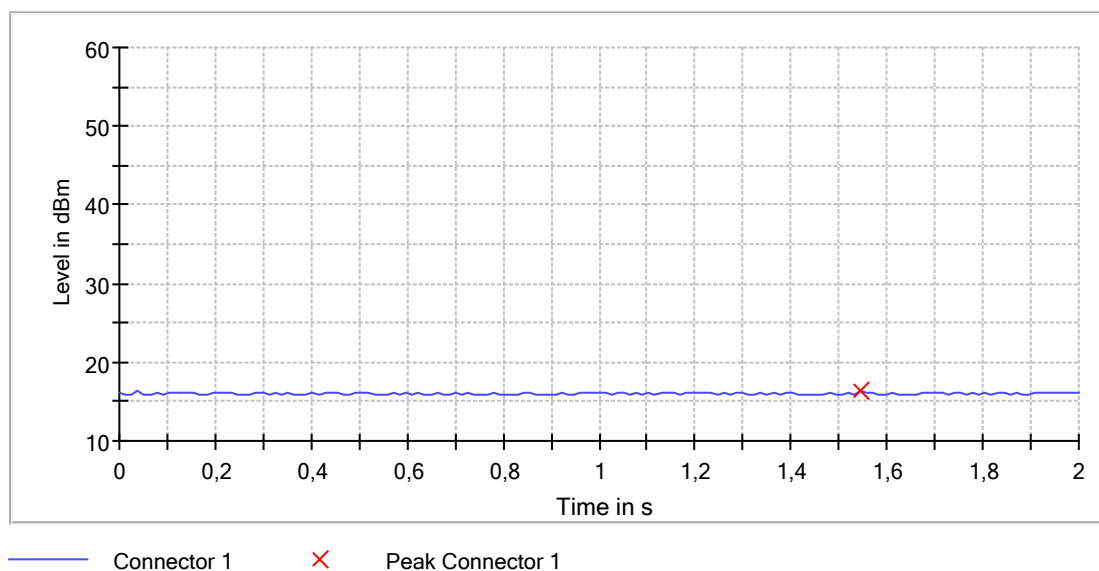
1.2.2. b-Mode [20 MHz| 2Mbit| Middle Channel 6 (2437 MHz)

Peak output power (2437 MHz; b-Mode Worst-Case Modulation Type (14 dBm); 20 MHz)

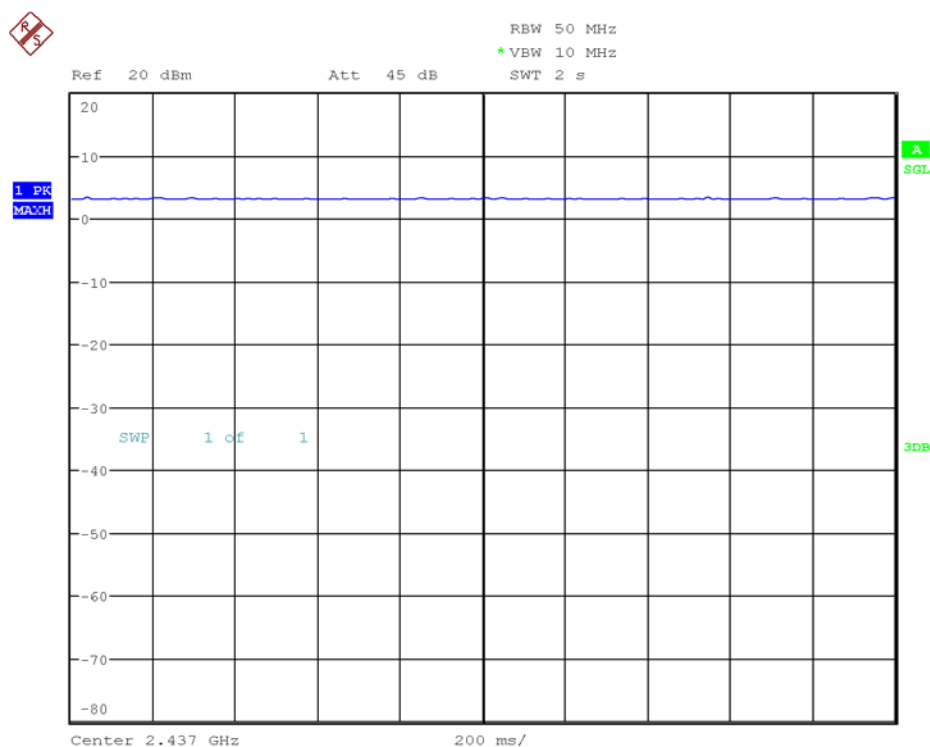
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2437.000000	16.3	30.0	PASS



Peak Power 1



Date: 27.JUN.2017 07:17:25

Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.43700 GHz	2.43700 GHz
Span	ZeroSpan	ZeroSpan
RBW	50.000 MHz	>= 20.000 MHz
VBW	10.000 MHz	>= 50.000 MHz
SweepPoints	155	~ 101
SweepTime	2.000 s	2.000 s
Reference Level	20.000 dBm	20.000 dBm
Attenuation	45.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

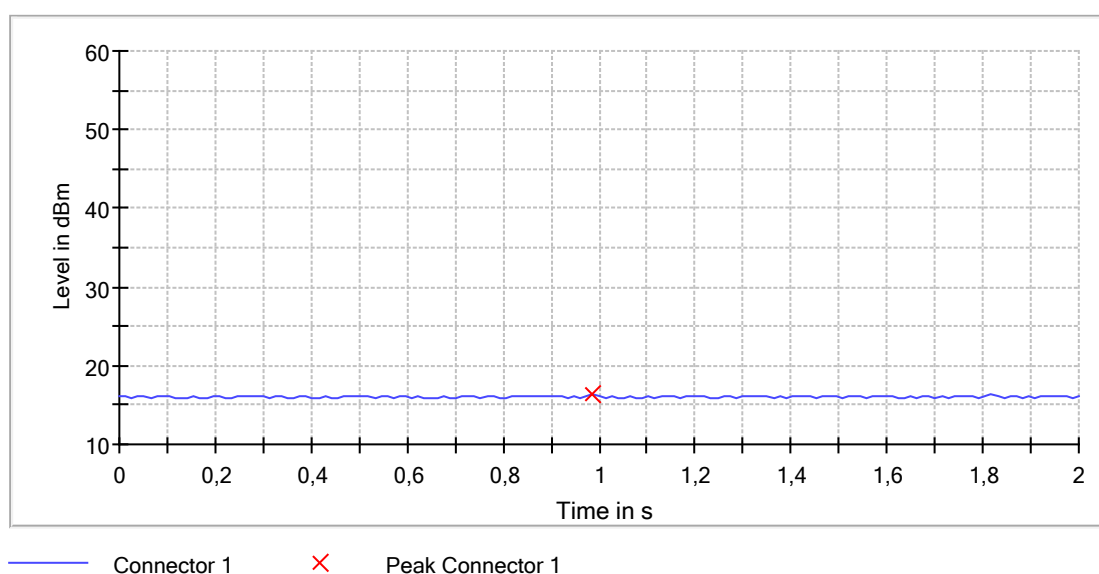
1.2.3. b-Mode |20 MHz| 2Mbit| Lowest Channel 11 (2462 MHz)

Peak output power (2462 MHz; b-Mode Worst-Case Modulation Type (14 dBm); 20 MHz)

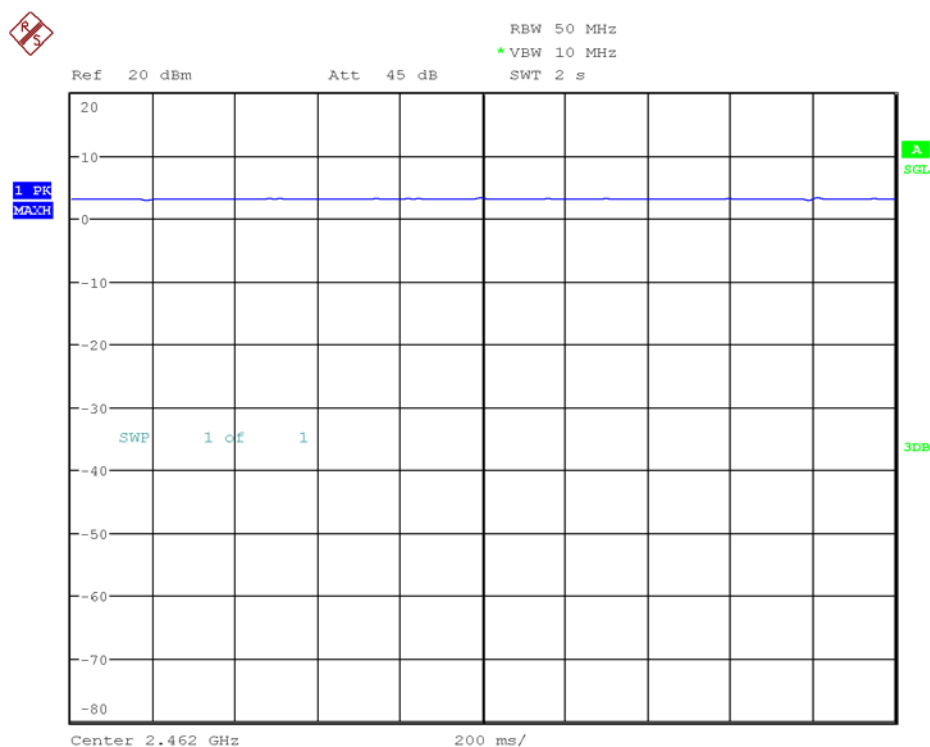
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2462.000000	16.3	30.0	PASS



Peak Power 1



Date: 27.JUN.2017 07:17:53

Measurement

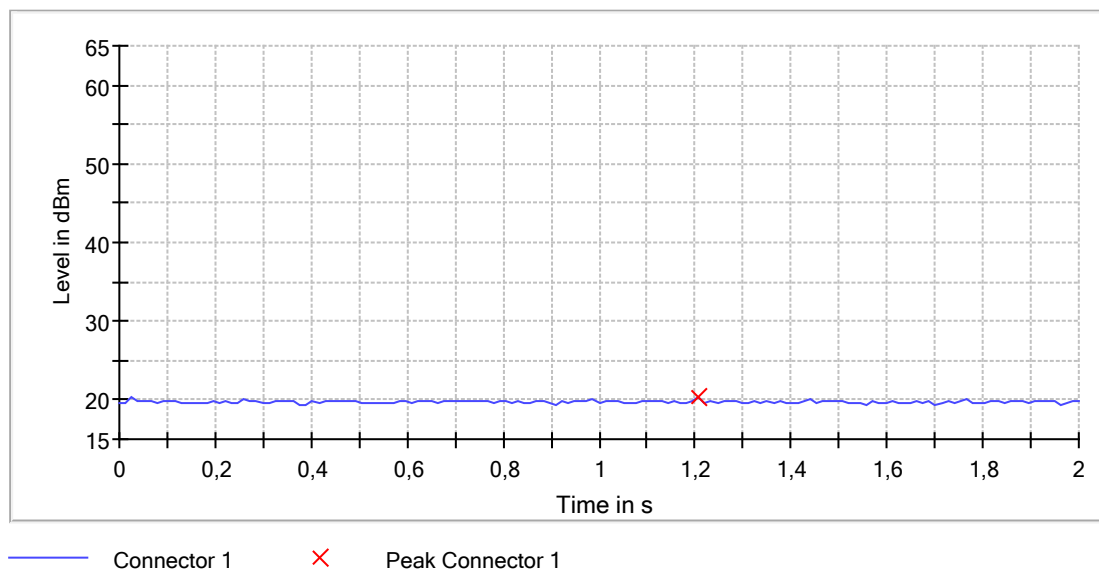
Setting	Instrument Value	Target Value
Center Frequency	2.46200 GHz	2.46200 GHz
Span	ZeroSpan	ZeroSpan
RBW	50.000 MHz	>= 20.000 MHz
VBW	10.000 MHz	>= 50.000 MHz
SweepPoints	155	~ 101
SweepTime	2.000 s	2.000 s
Reference Level	20.000 dBm	20.000 dBm
Attenuation	45.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

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

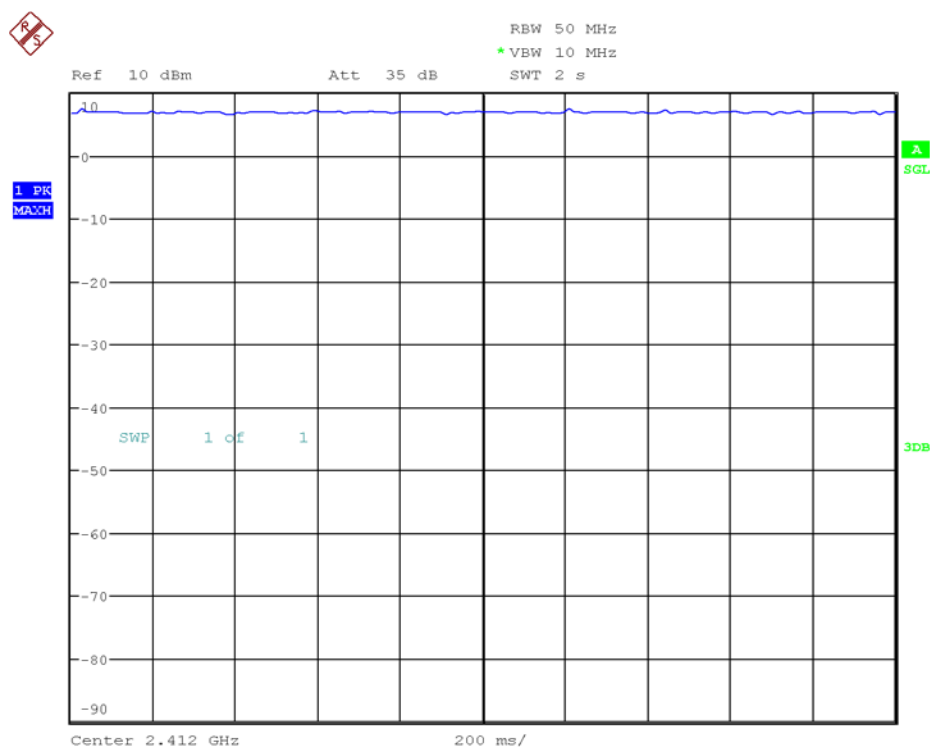
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2412.000000	20.4	30.0	PASS



Peak Power 1



Date: 27.JUN.2017 07:20:54

Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.41200 GHz	2.41200 GHz
Span	ZeroSpan	ZeroSpan
RBW	50.000 MHz	>= 20.000 MHz
VBW	10.000 MHz	>= 50.000 MHz
SweepPoints	155	~ 101
SweepTime	2.000 s	2.000 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

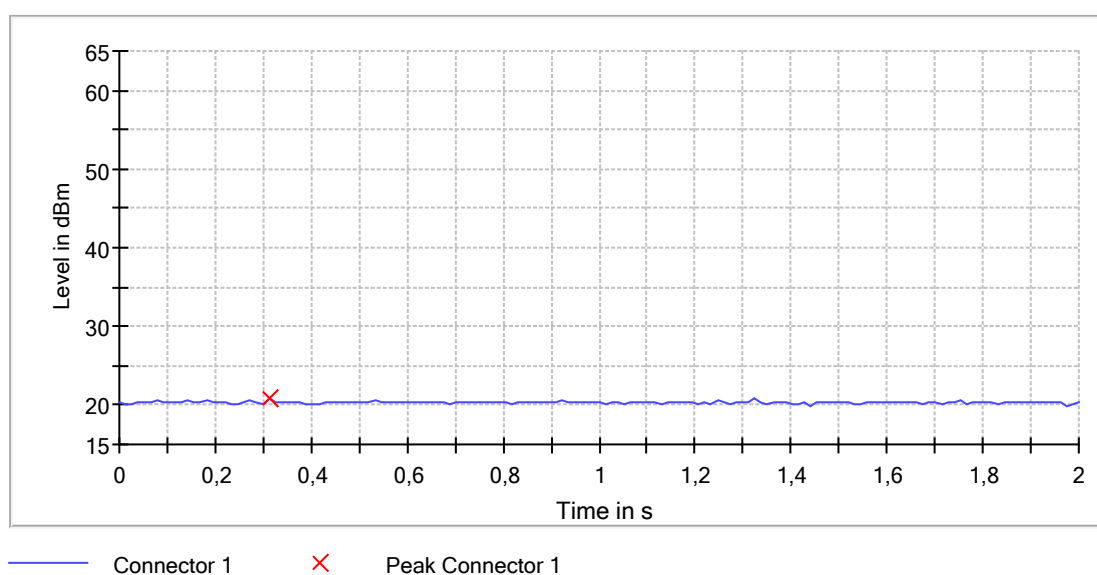
1.2.5. g-Mode |20 MHz| 12Mbit| Middle Channel 6 (2437 MHz)

Peak output power (2437 MHz; g-Mode (11 dBm); 20 MHz)

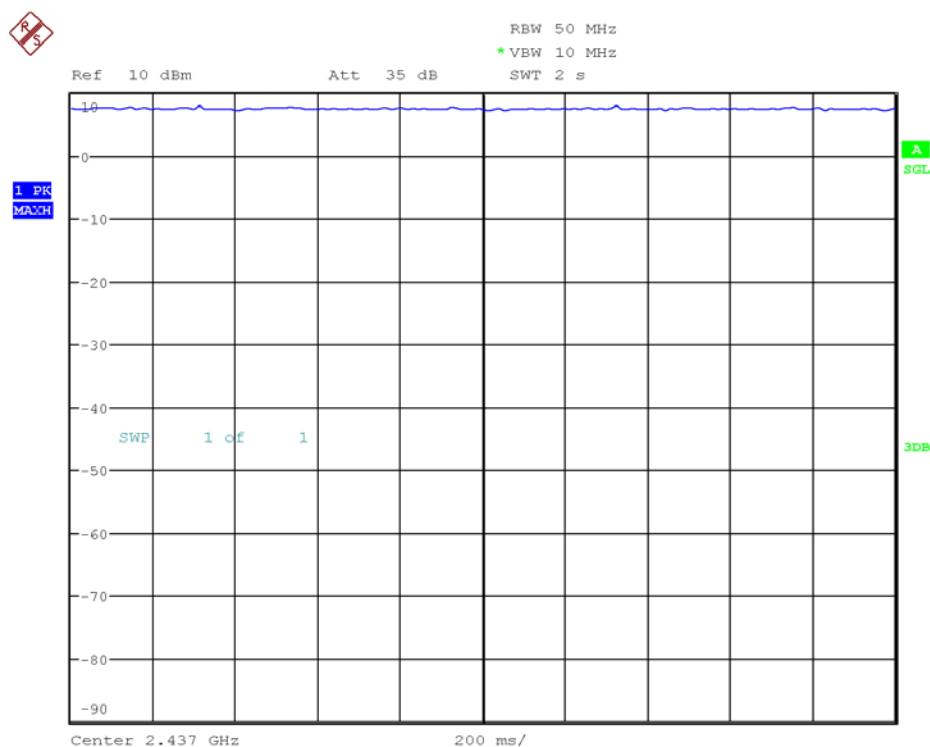
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2437.000000	20.9	30.0	PASS



Peak Power 1



Date: 27.JUN.2017 07:21:21

Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.43700 GHz	2.43700 GHz
Span	ZeroSpan	ZeroSpan
RBW	50.000 MHz	>= 20.000 MHz
VBW	10.000 MHz	>= 50.000 MHz
SweepPoints	155	~ 101
SweepTime	2.000 s	2.000 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

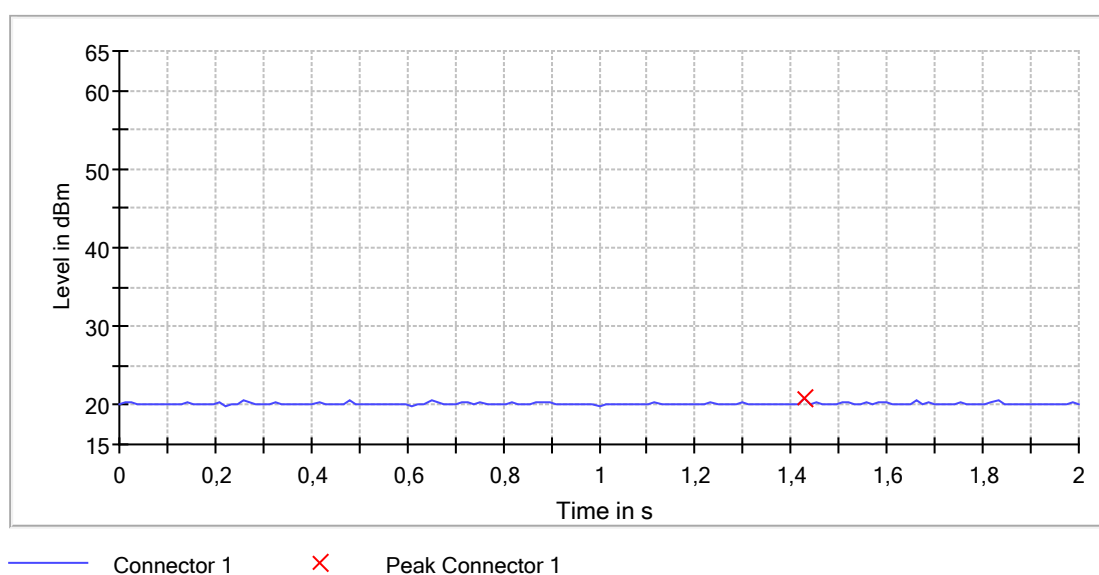
1.2.6. g-Mode |20 MHz| 12Mbit| Lowest Channel 11 (2462 MHz)

Peak output power (2462 MHz; g-Mode (11 dBm); 20 MHz)

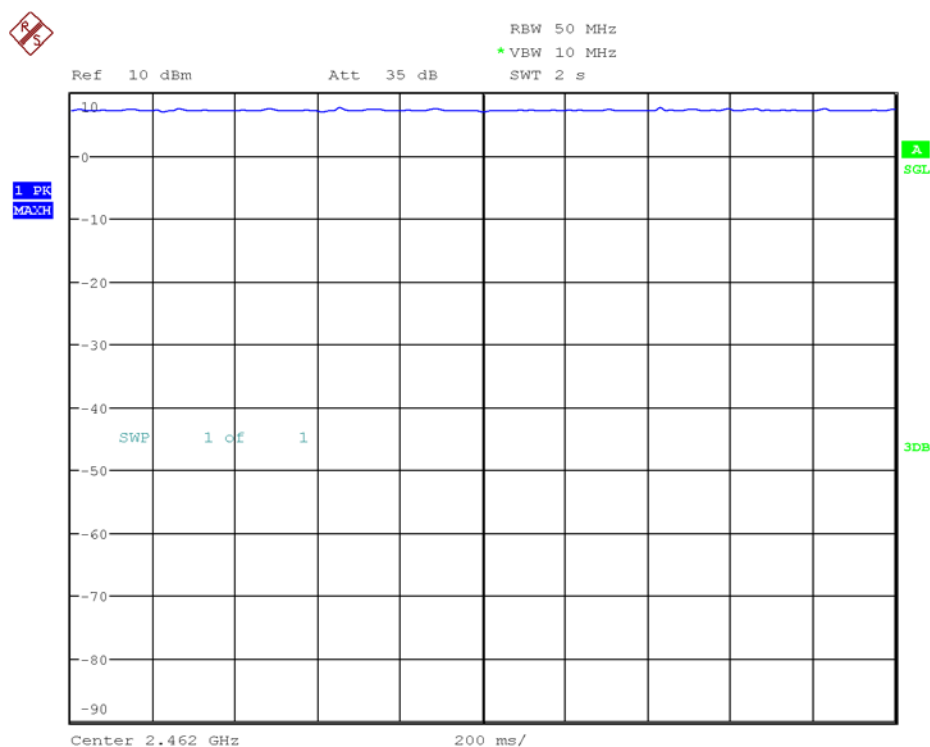
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2462.000000	20.8	30.0	PASS



Peak Power 1



Date: 27.JUN.2017 07:21:47

Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.46200 GHz	2.46200 GHz
Span	ZeroSpan	ZeroSpan
RBW	50.000 MHz	>= 20.000 MHz
VBW	10.000 MHz	>= 50.000 MHz
SweepPoints	155	~ 101
SweepTime	2.000 s	2.000 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

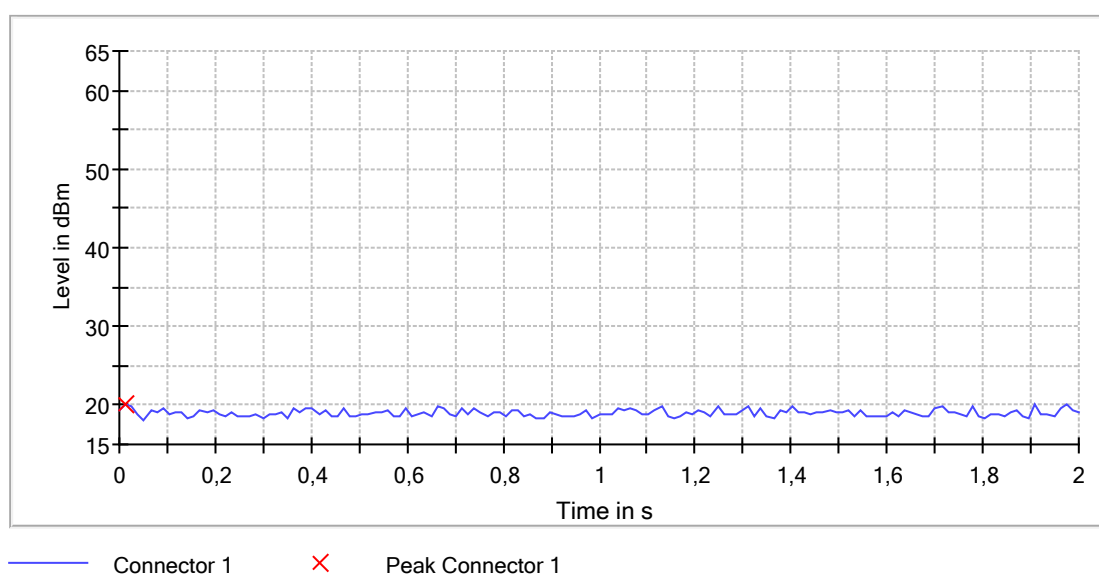
1.2.7. n-Mode [20 MHz] MCS6| Lowest Channel 1 (2412 MHz)

Peak output power (2412 MHz; n-Mode (11 dBm); 20 MHz)

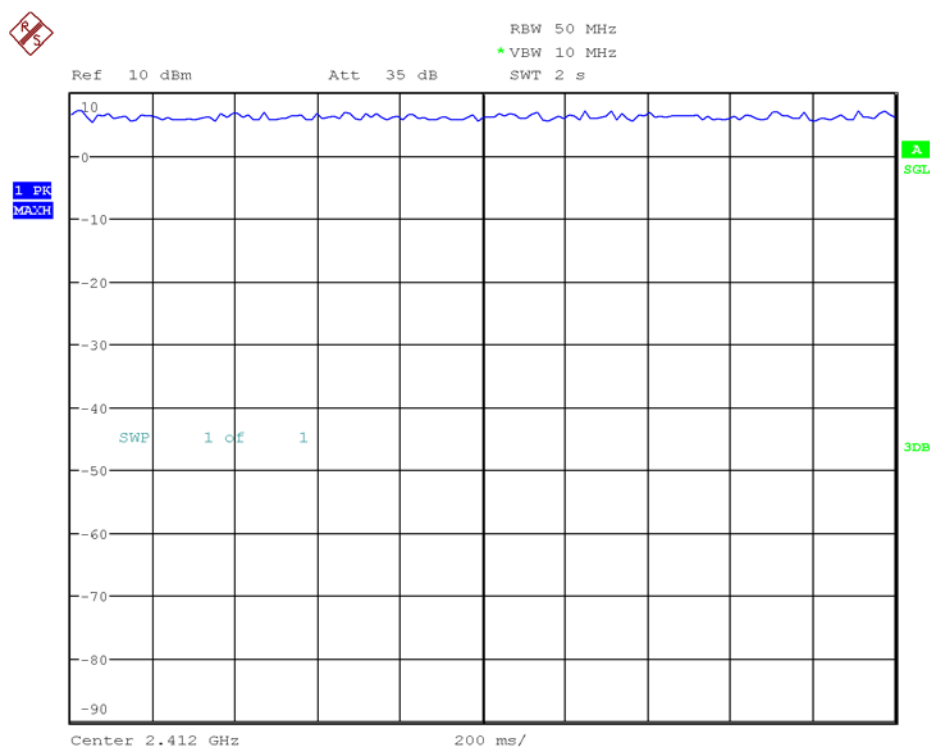
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2412.000000	20.1	30.0	PASS



Peak Power 1



Date: 27.JUN.2017 07:23:43

Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.41200 GHz	2.41200 GHz
Span	ZeroSpan	ZeroSpan
RBW	50.000 MHz	>= 20.000 MHz
VBW	10.000 MHz	>= 50.000 MHz
SweepPoints	155	~ 101
SweepTime	2.000 s	2.000 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

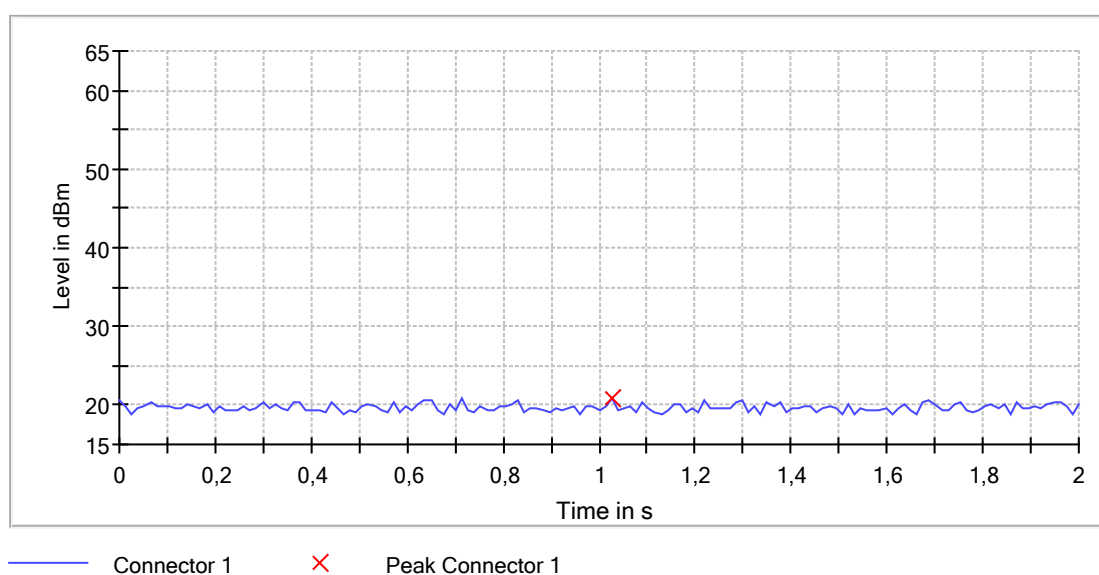
1.2.8. n-Mode [20 MHz] MCS6| Middle Channel 6 (2437 MHz)

Peak output power (2437 MHz; n-Mode (11 dBm); 20 MHz)

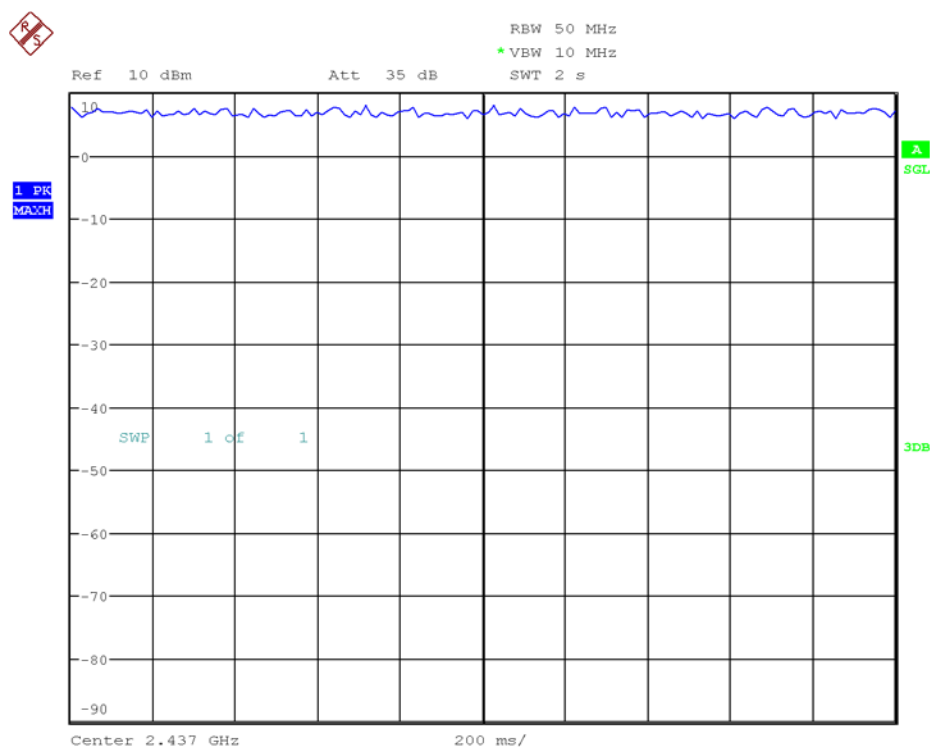
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2437.000000	20.9	30.0	PASS



Peak Power 1



Date: 27.JUN.2017 07:25:37

Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.43700 GHz	2.43700 GHz
Span	ZeroSpan	ZeroSpan
RBW	50.000 MHz	>= 20.000 MHz
VBW	10.000 MHz	>= 50.000 MHz
SweepPoints	155	~ 101
SweepTime	2.000 s	2.000 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

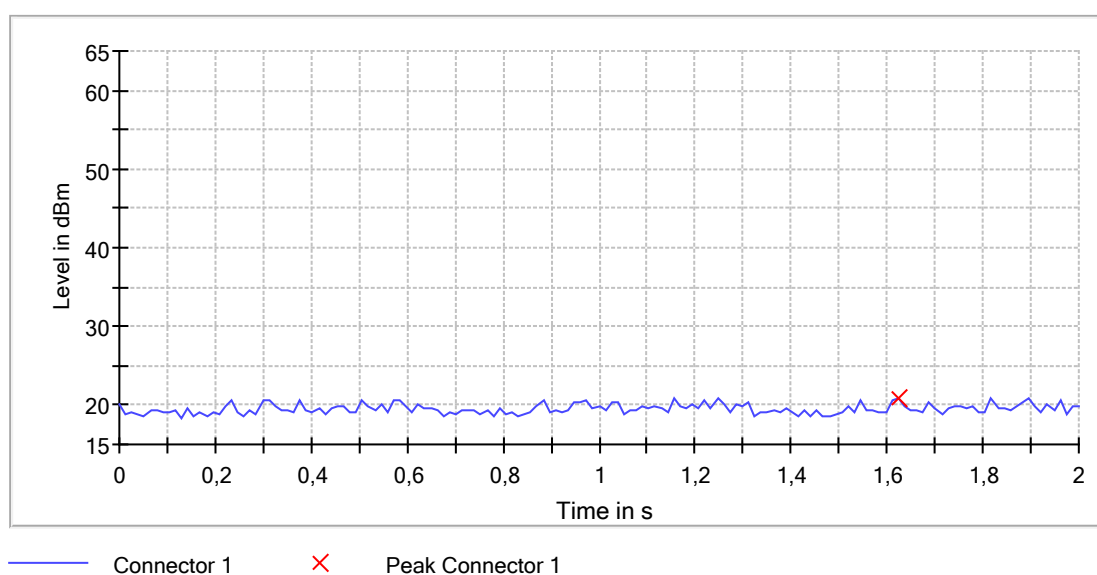
1.2.9. n-Mode |20 MHz| MCS6| Highest Channel 11 (2462 MHz)

Peak output power (2462 MHz; n-Mode (11 dBm); 20 MHz)

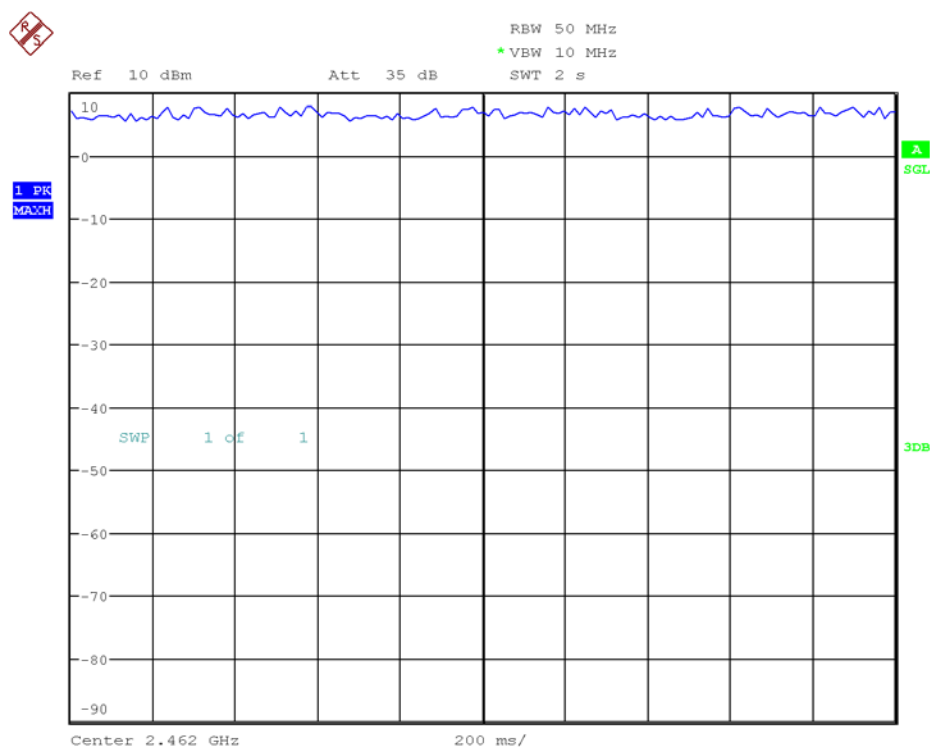
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2462.000000	20.8	30.0	PASS



Peak Power 1

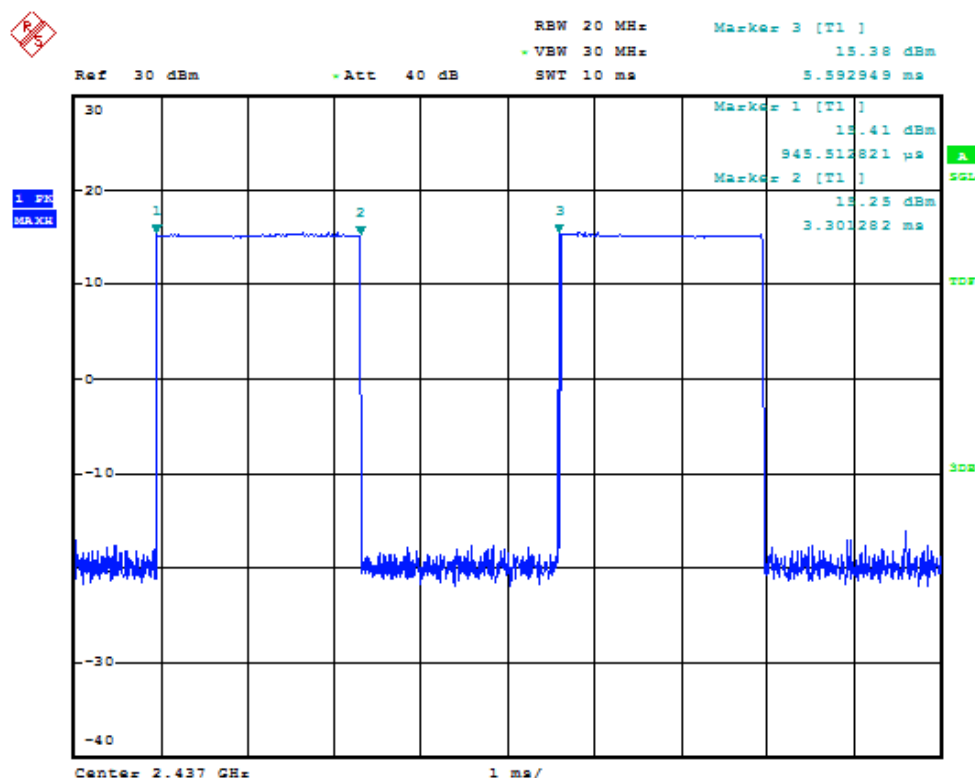


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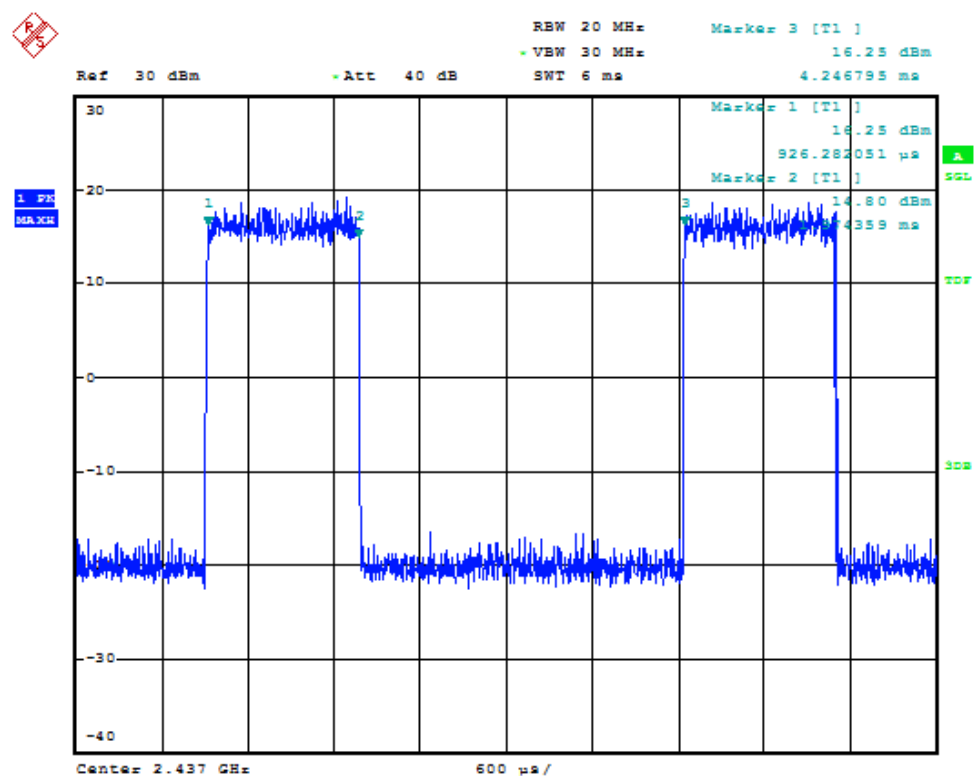
Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.46200 GHz	2.46200 GHz
Span	ZeroSpan	ZeroSpan
RBW	50.000 MHz	>= 20.000 MHz
VBW	10.000 MHz	>= 50.000 MHz
SweepPoints	155	~ 101
SweepTime	2.000 s	2.000 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

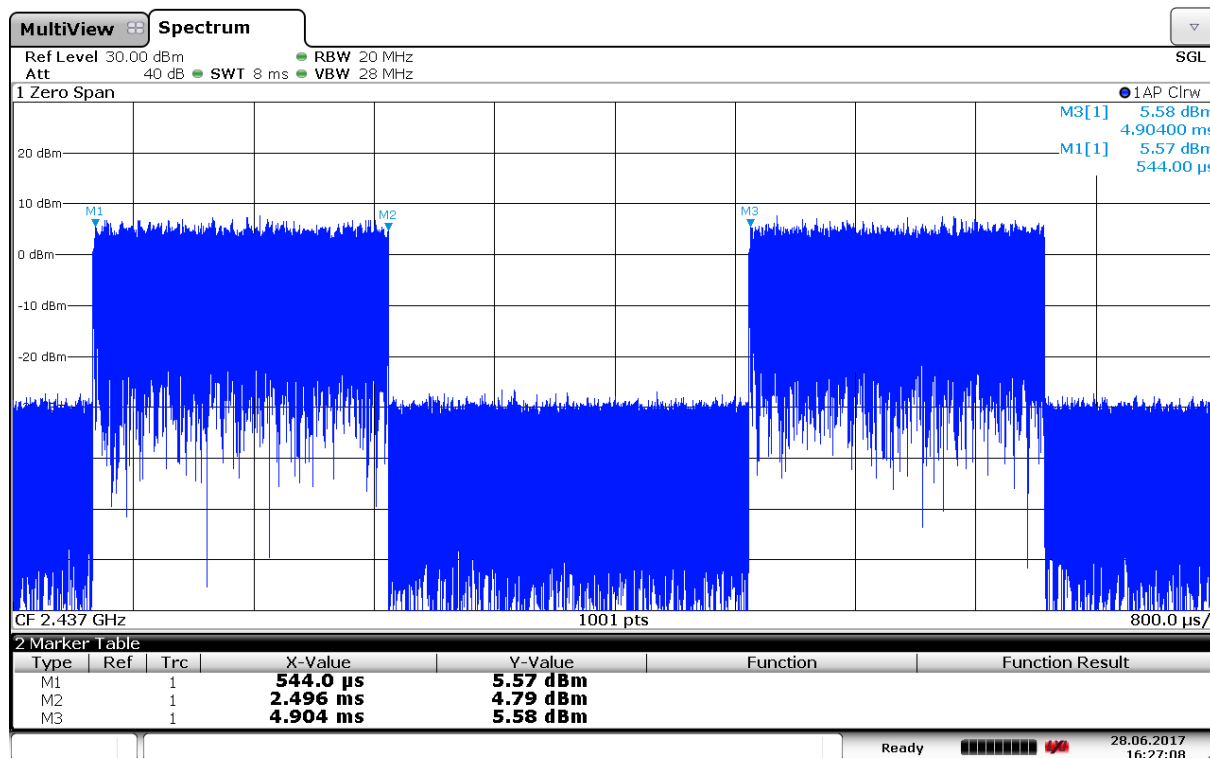
1.3. Duty Cycle Measurements



Plot 1: Duty Cycle-WLAN 2.4 GHz-b Mode (SISO) | 20 MHz | 2 Mbit | Ch 6 (2437 MHz)



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



16:27:08 28.06.2017

Plot 3: Duty Cycle-WLAN 2.4 GHz-n Mode () | 20 MHz | MCS6 | Ch 6 (2437 MHz)

1.4. Power Spectral Density Measurements (b Mode)

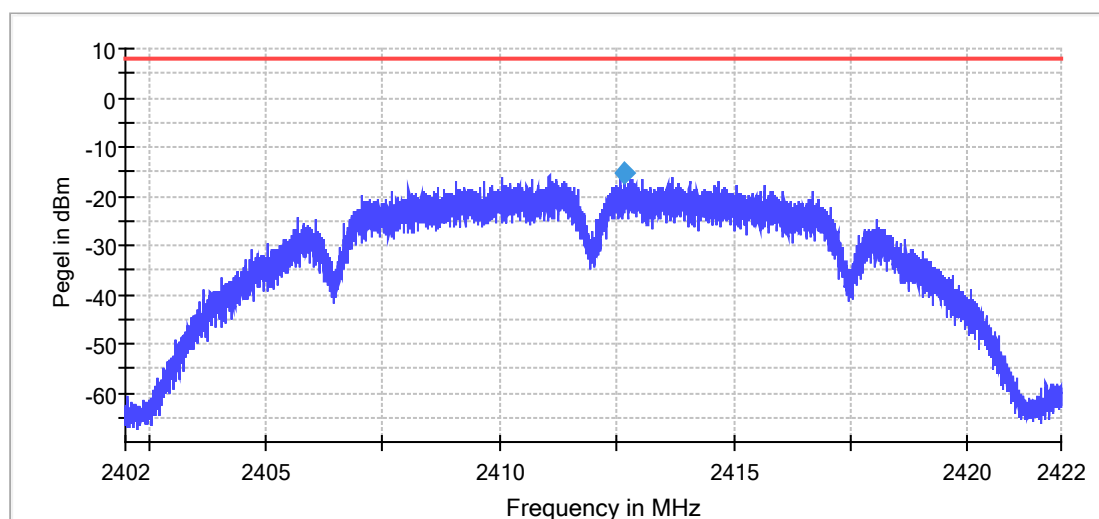
1.4.1. b-Mode [20 MHz| 2Mbit| Lowest Channel 1 (2412 MHz)

Power Spectral Density (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 v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2412.679699	-15.198	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	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off

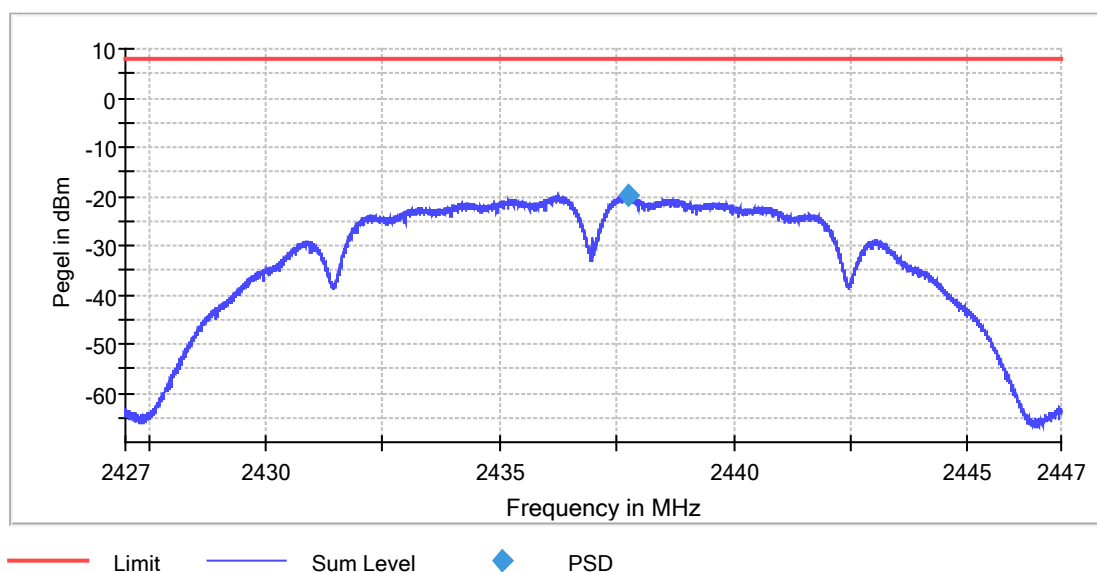
1.4.2. b-Mode |20 MHz| 2Mbit| Middle Channel 6 (2437 MHz)

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 v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2437.766917	-19.880	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	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off

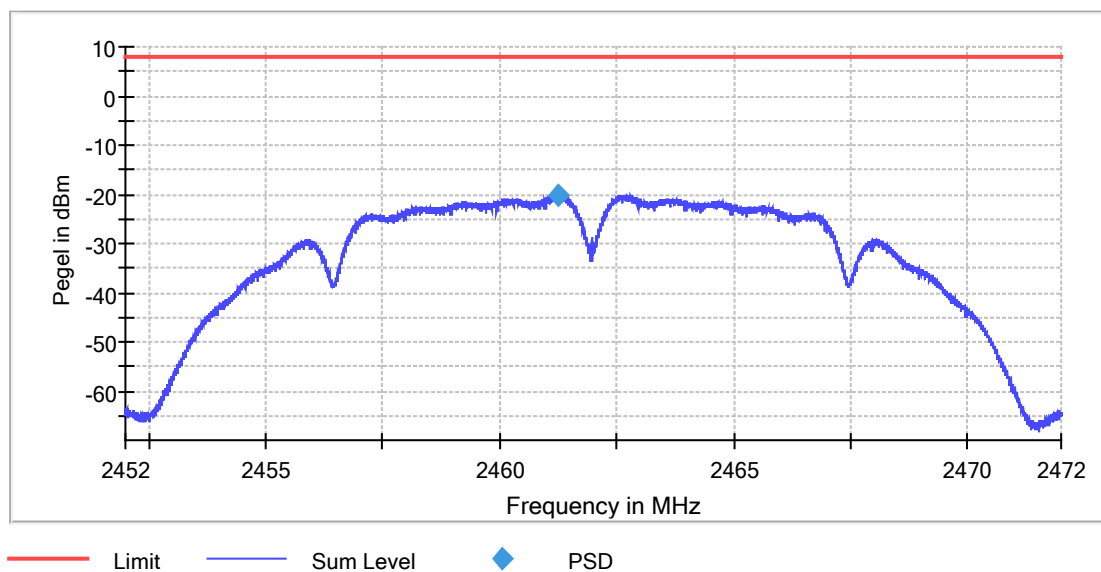
1.4.3. b-Mode |20 MHz| 2Mbit| Highest Channel 11 (2462 MHz)

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 v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2461.252632	-20.017	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	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off

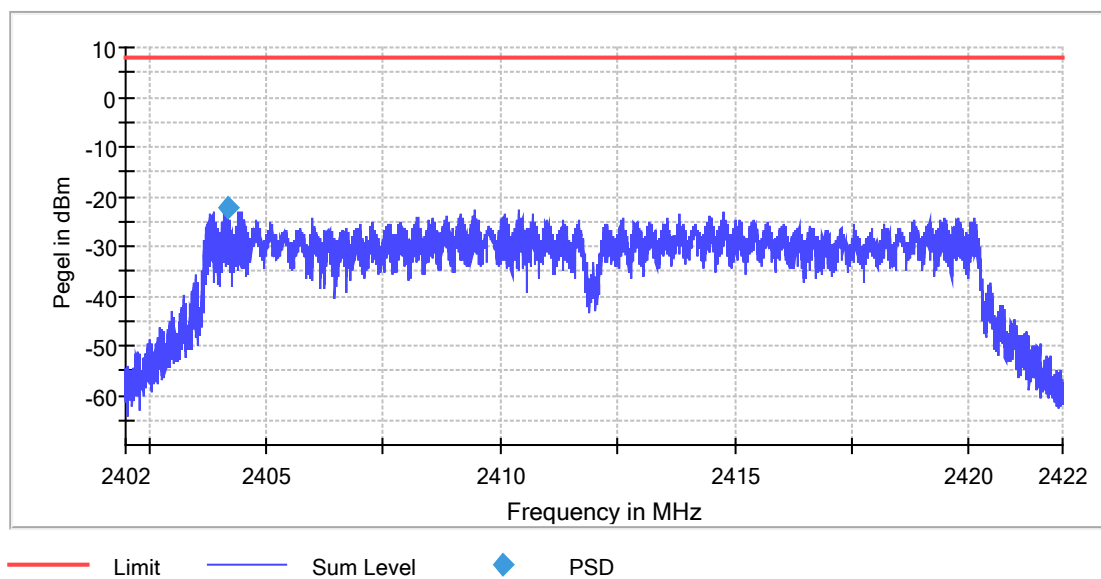
1.4.4. g-Mode |20 MHz| 12Mbit| Lowest Channel 1 (2412 MHz)

Power Spectral Density (2412 MHz; g-Mode Worst-Case Modulation Type (11 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2404.187970	-22.132	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	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off

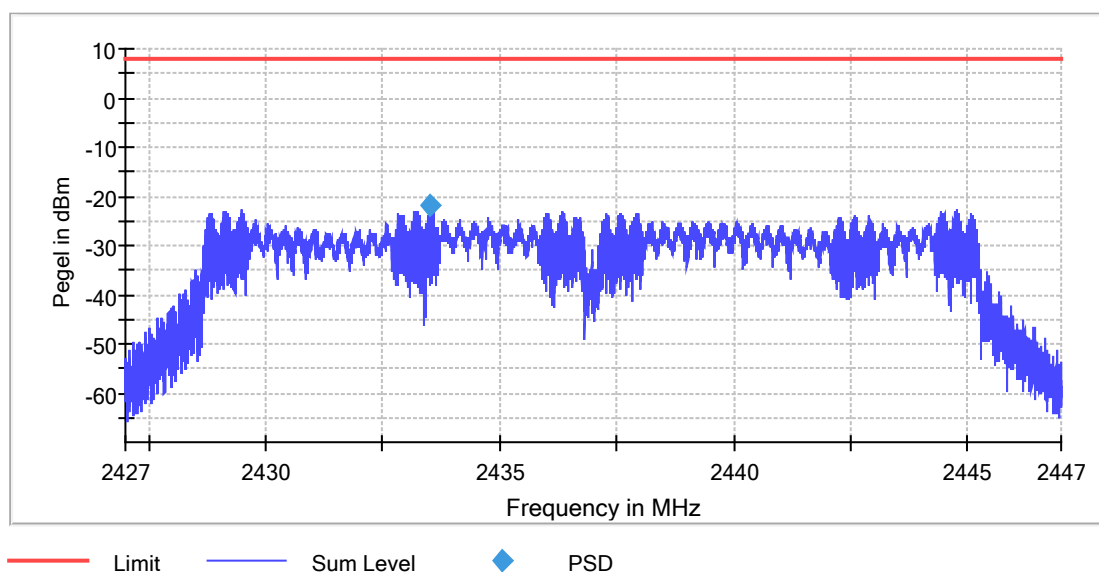
1.4.5. g-Mode |20 MHz| 12Mbit| Middle Channel 6 (2437 MHz)

Power Spectral Density (2437 MHz; g-Mode Worst-Case Modulation Type (11 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2433.529323	-22.036	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	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off

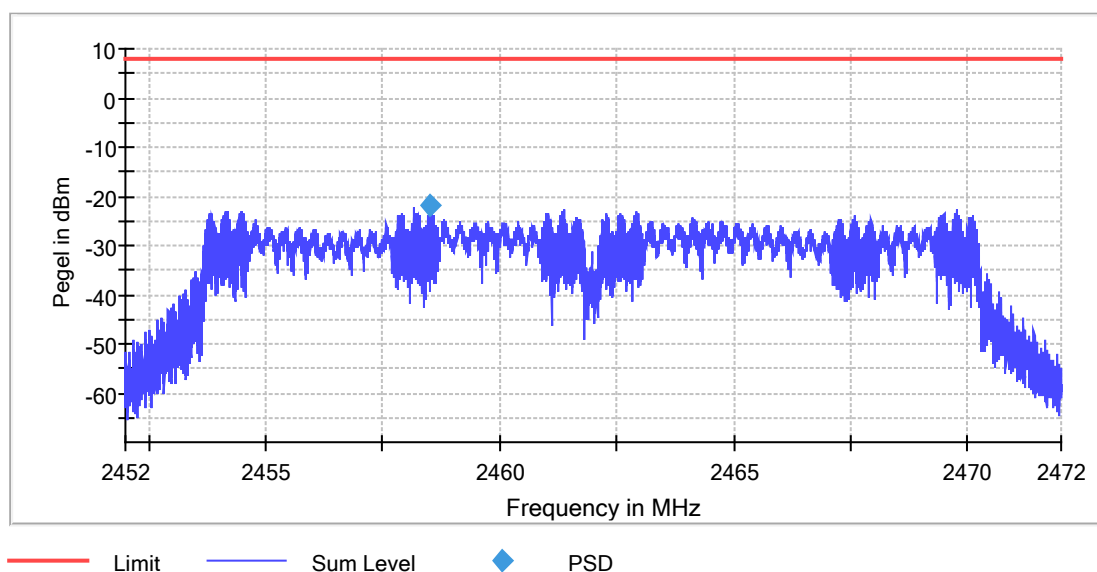
1.4.6. g-Mode |20 MHz| 12Mbit| Highest Channel 11 (2462 MHz)

Power Spectral Density (2462 MHz; g-Mode Worst-Case Modulation Type (11 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2458.529323	-21.977	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	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off

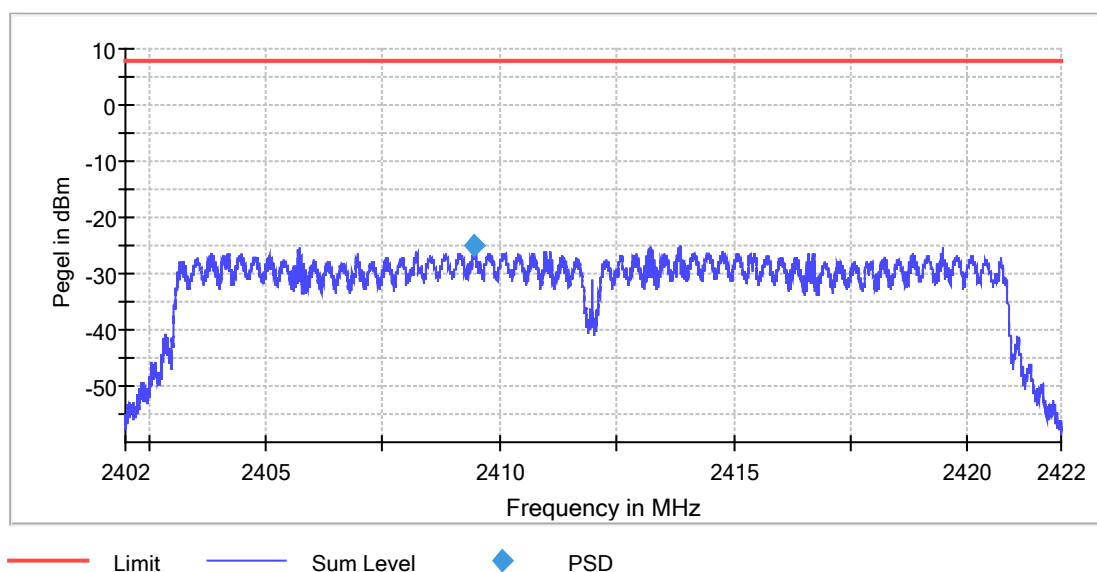
1.4.7. n-Mode [20 MHz] MCS6| Lowest Channel 1 (2412 MHz)

Power Spectral Density (2412 MHz; n-Mode Worst-Case Modulation Type (11 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2409.469173	-25.039	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	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off

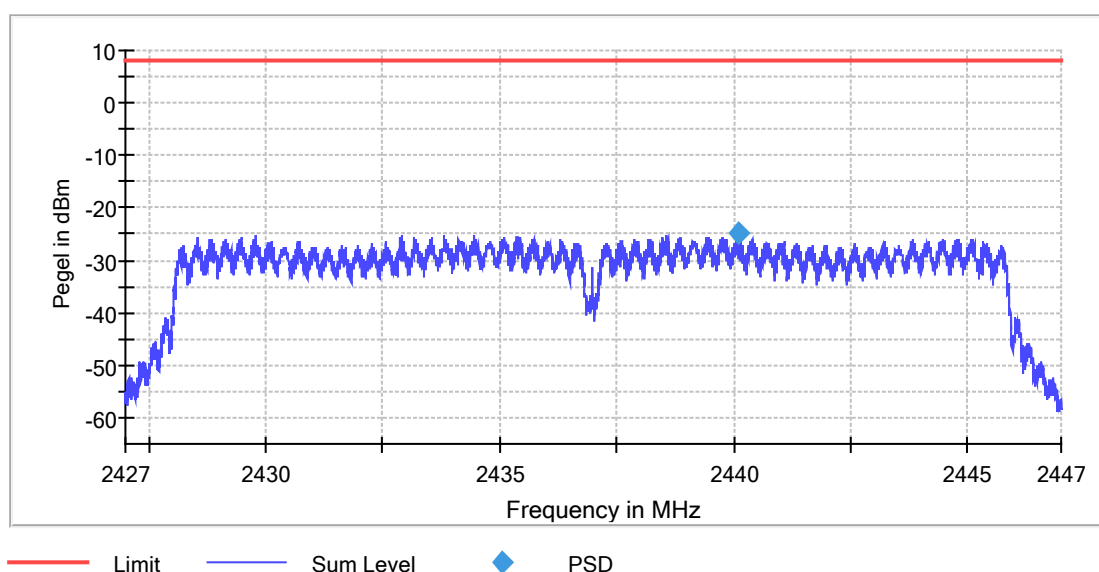
1.4.8. n-Mode [20 MHz] MCS6| Middle Channel 6 (2437 MHz)

Power Spectral Density (2437 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 v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2440.091729	-24.864	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	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off

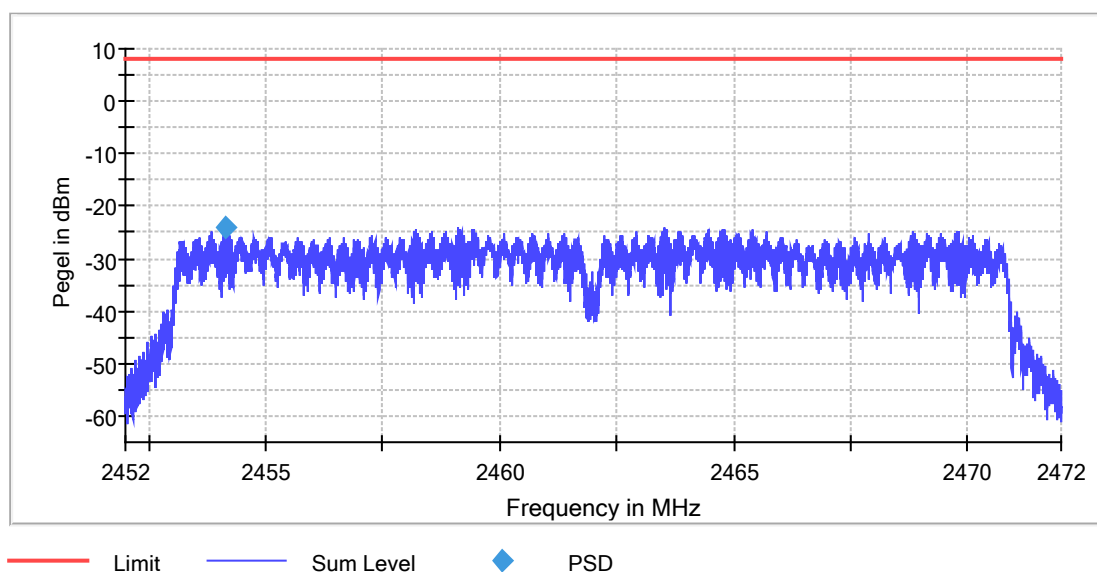
1.4.9. n-Mode |20 MHz| MCS6| Highest Channel 11 (2462 MHz)

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 v03r05 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2454.144361	-24.041	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	RMS	RMS
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off

1.5. 6 dB Bandwidth Measurements (n Mode)

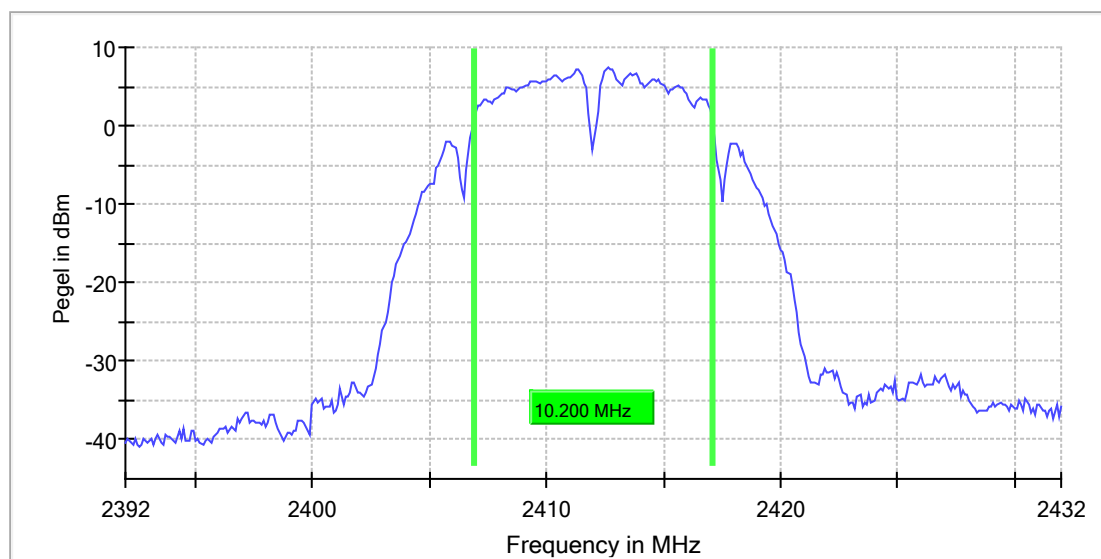
1.5.1. b-Mode [20 MHz| 2Mbit| Lowest Channel 1 (2412 MHz)

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 v03r05 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)	Result
2412.000000	10.200000	0.500000	---	2406.900000	2417.100000	7.4	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	10.000 dBm	10.000 dBm
Attenuation	35.000 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	30 / max. 150	max. 150
Stable	15 / 15	15
Max Stable Difference	0.02 dB	0.50 dB

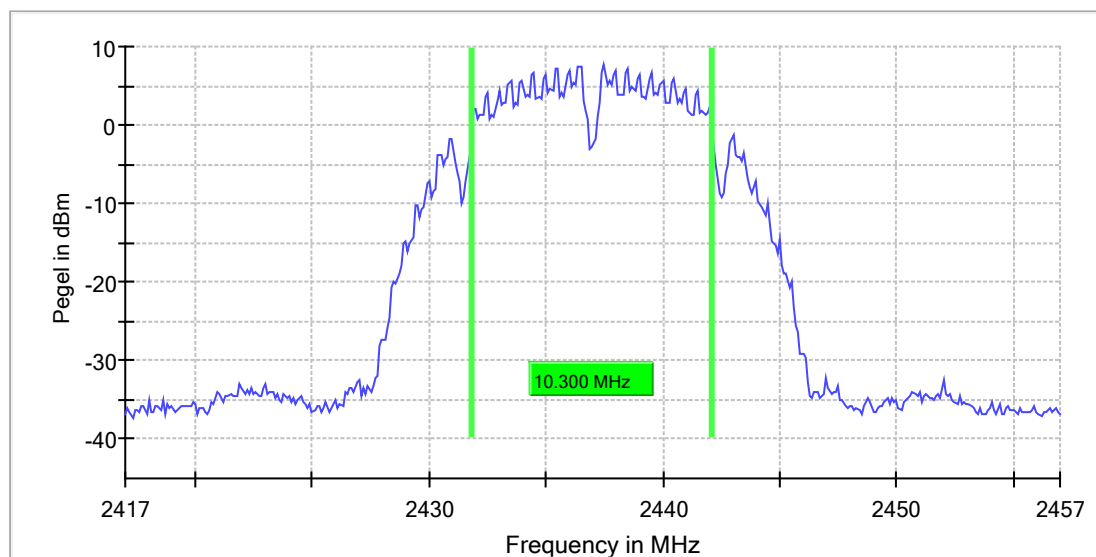
1.5.2. b-Mode |20 MHz| 2Mbit| Middle Channel 6 (2437 MHz)

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 v03r05 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)	Result
2437.000000	10.300000	0.500000	---	2431.800000	2442.100000	7.6	PASS



Measurement

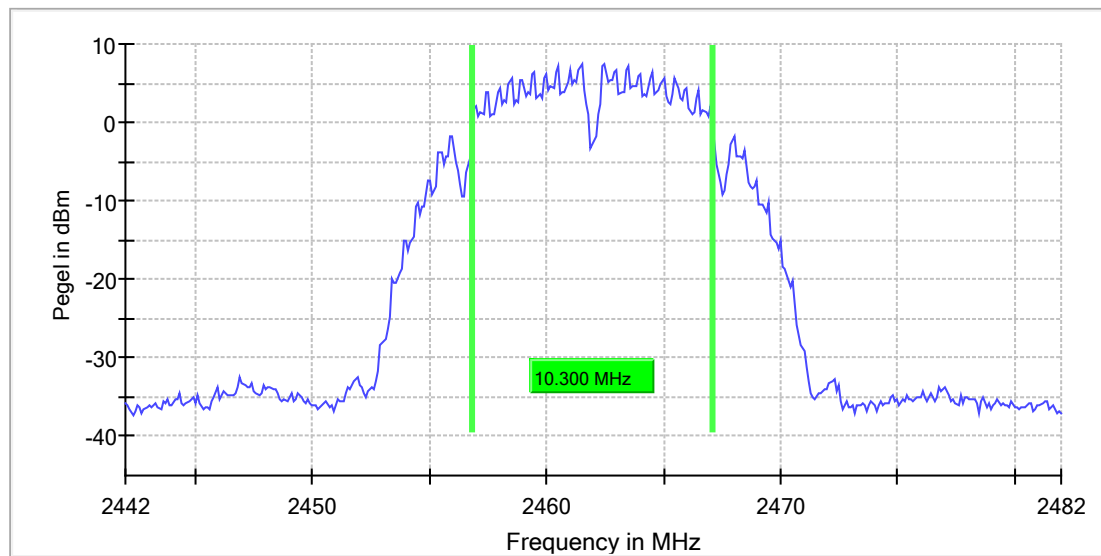
Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	401	~ 400
SweepTime	15.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 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	0.30 dB	0.50 dB

1.5.3. b-Mode |20 MHz| 2Mbit| 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 v03r05 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)	Result
2462.000000	10.300000	0.500000	---	2456.800000	2467.100000	7.4	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	10.000 dBm	10.000 dBm
Attenuation	35.000 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	0.07 dB	0.50 dB

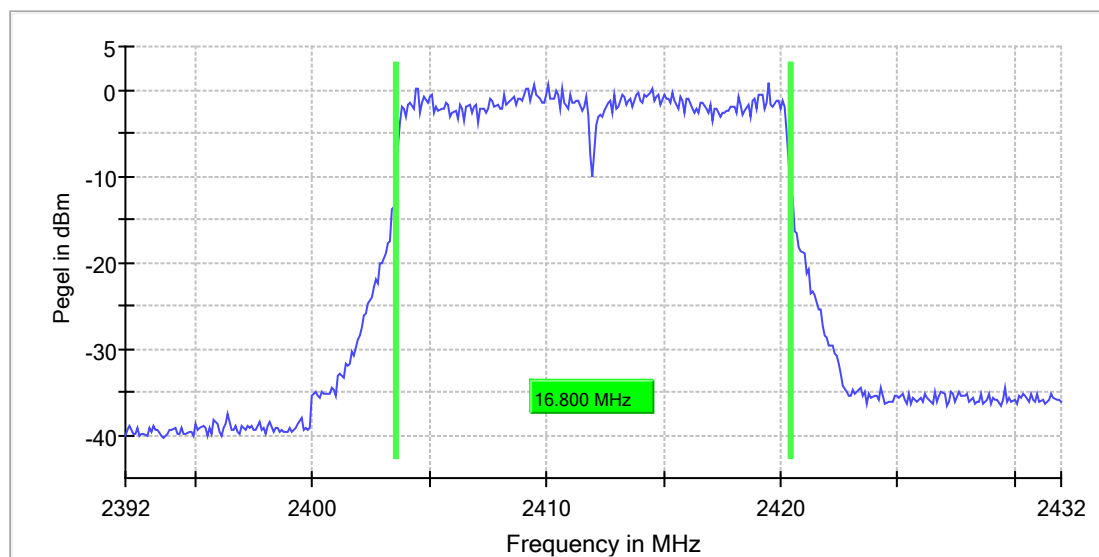
1.5.4. g-Mode |20 MHz| 12Mbit| Lowest Channel 1 (2412 MHz)

Minimum Emission Bandwidth 6 dB (2412 MHz; g-Mode Worst-Case Modulation Type (11 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 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)	Result
2412.000000	16.800000	0.500000	---	2403.600000	2420.400000	0.9	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	10.000 dBm	10.000 dBm
Attenuation	35.000 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	57 / max. 150	max. 150
Stable	15 / 15	15
Max Stable Difference	0.09 dB	0.50 dB

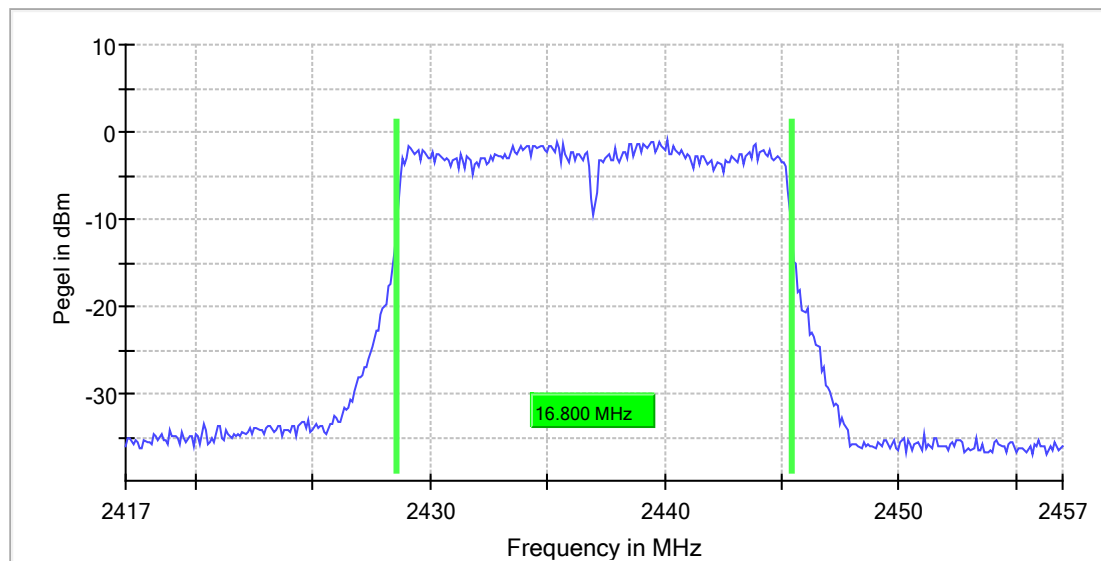
1.5.5. g-Mode |20 MHz| 12Mbit| Middle Channel 6 (2437 MHz)

Minimum Emission Bandwidth 6 dB (2437 MHz; g-Mode Worst-Case Modulation Type (11 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 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)	Result
2437.000000	16.800000	0.500000	---	2428.600000	2445.400000	-0.9	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	10.000 dBm	10.000 dBm
Attenuation	35.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	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	0.13 dB	0.50 dB

1.5.6. g-Mode |20 MHz| 12Mbit| Highest Channel 11 (2462 MHz)

Minimum Emission Bandwidth 6 dB (2462 MHz; g-Mode Worst-Case Modulation Type (11 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 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)	Result
2462.000000	16.700000	0.500000	---	2453.600000	2470.300000	1.0	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	10.000 dBm	10.000 dBm
Attenuation	35.000 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	47 / max. 150	max. 150
Stable	15 / 15	15
Max Stable Difference	0.02 dB	0.50 dB

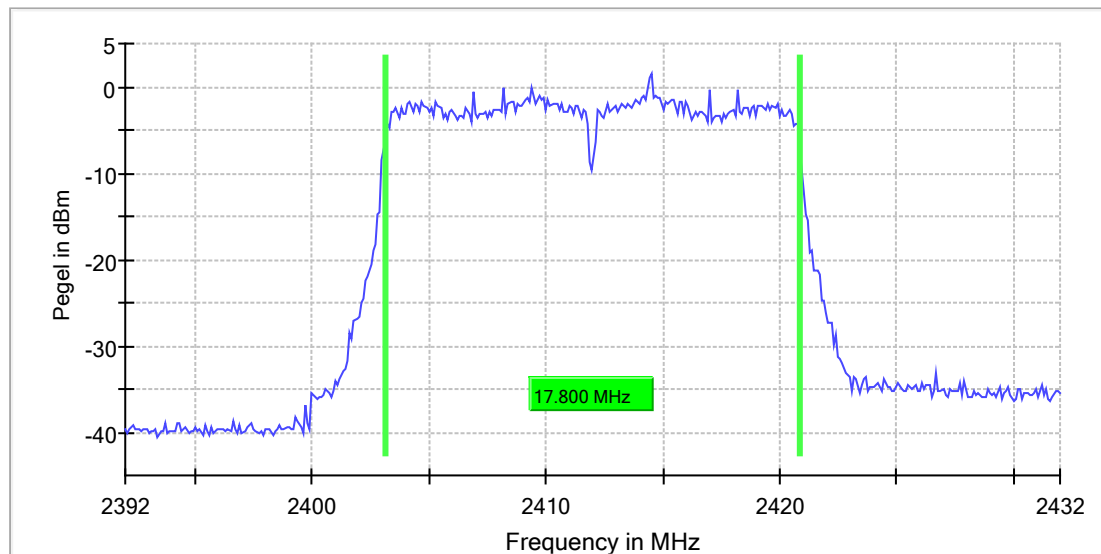
1.5.7. n-Mode |20 MHz| MCS6| Lowest Channel 1 (2412 MHz)

Minimum Emission Bandwidth 6 dB (2412 MHz; n-Mode Worst-Case Modulation Type (11 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 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)	Result
2412.000000	17.800000	0.500000	---	2403.100000	2420.900000	1.4	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	10.000 dBm	10.000 dBm
Attenuation	35.000 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	51 / max. 150	max. 150
Stable	15 / 15	15
Max Stable Difference	0.11 dB	0.50 dB

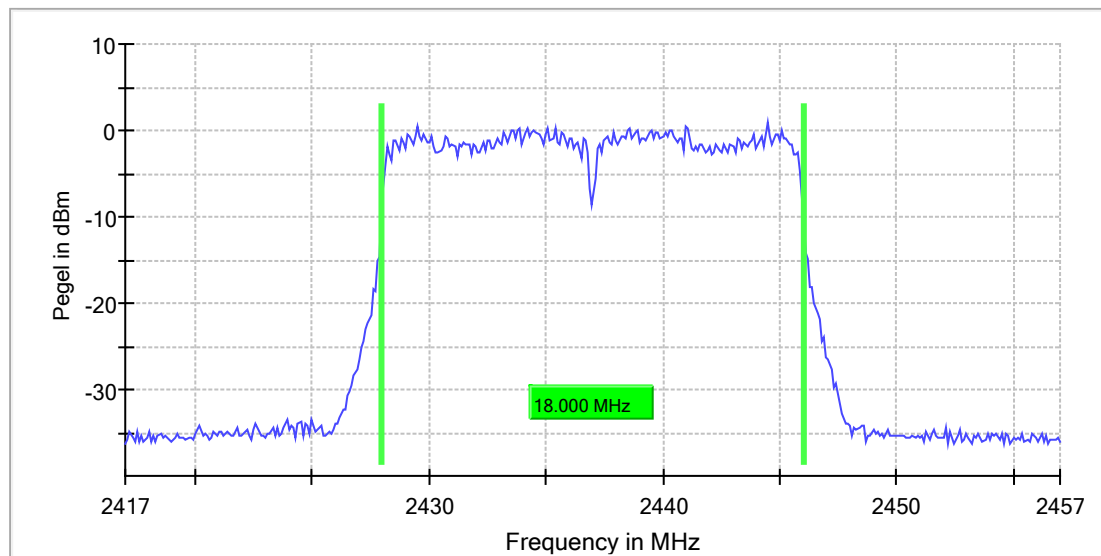
1.5.8. n-Mode [20 MHz] MCS6| Middle Channel 6 (2437 MHz)

Minimum Emission Bandwidth 6 dB (2437 MHz; n-Mode Worst-Case Modulation Type (11 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 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)	Result
2437.000000	18.000000	0.500000	---	2428.000000	2446.000000	0.9	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	10.000 dBm	10.000 dBm
Attenuation	35.000 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	48 / max. 150	max. 150
Stable	15 / 15	15
Max Stable Difference	0.10 dB	0.50 dB

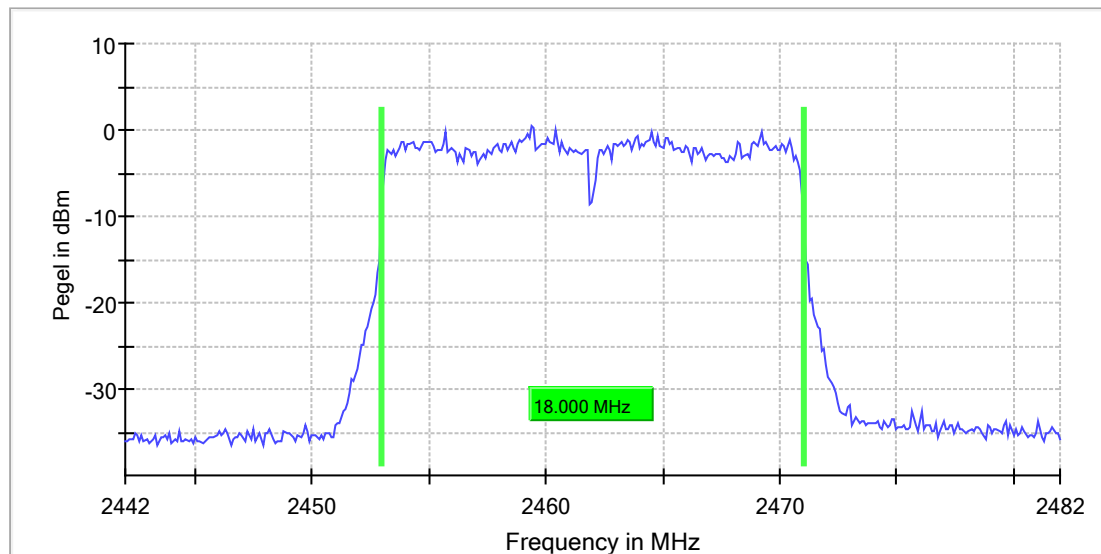
1.5.9. n-Mode |20 MHz| MCS6| Highest Channel 11 (2462 MHz)

Minimum Emission Bandwidth 6 dB (2462 MHz; n-Mode Worst-Case Modulation Type (11 dBm); 20 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 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)	Result
2462.000000	18.000000	0.500000	---	2453.000000	2471.000000	0.4	PASS

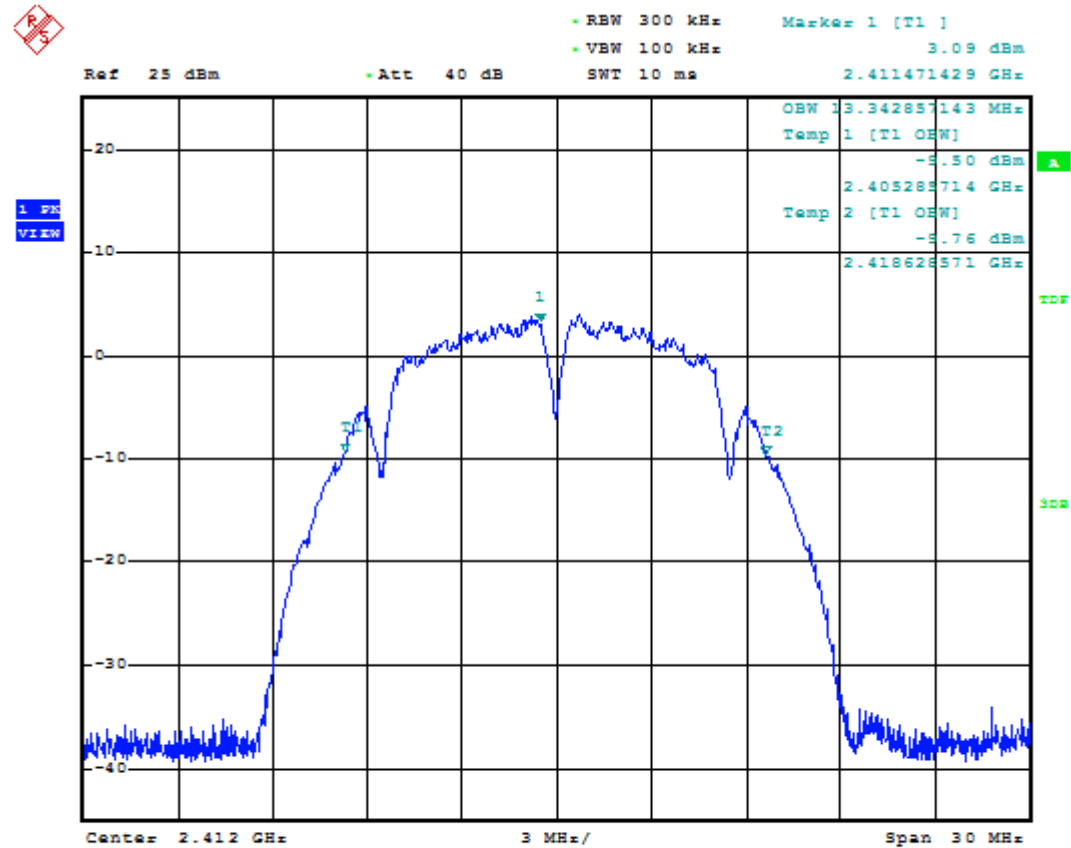


Measurement

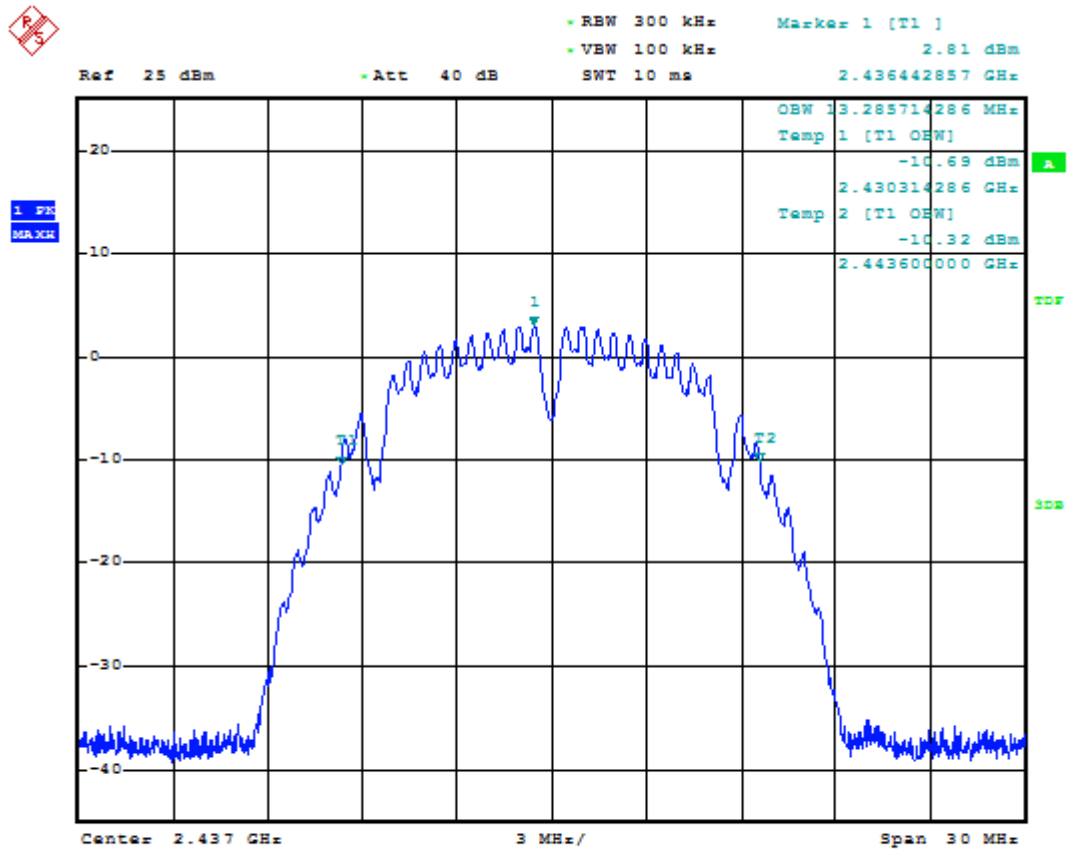
Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	401	~ 400
SweepTime	15.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	35.000 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	27 / max. 150	max. 150
Stable	15 / 15	15
Max Stable Difference	0.10 dB	0.50 dB

1.6. 99% Bandwidth Measurements

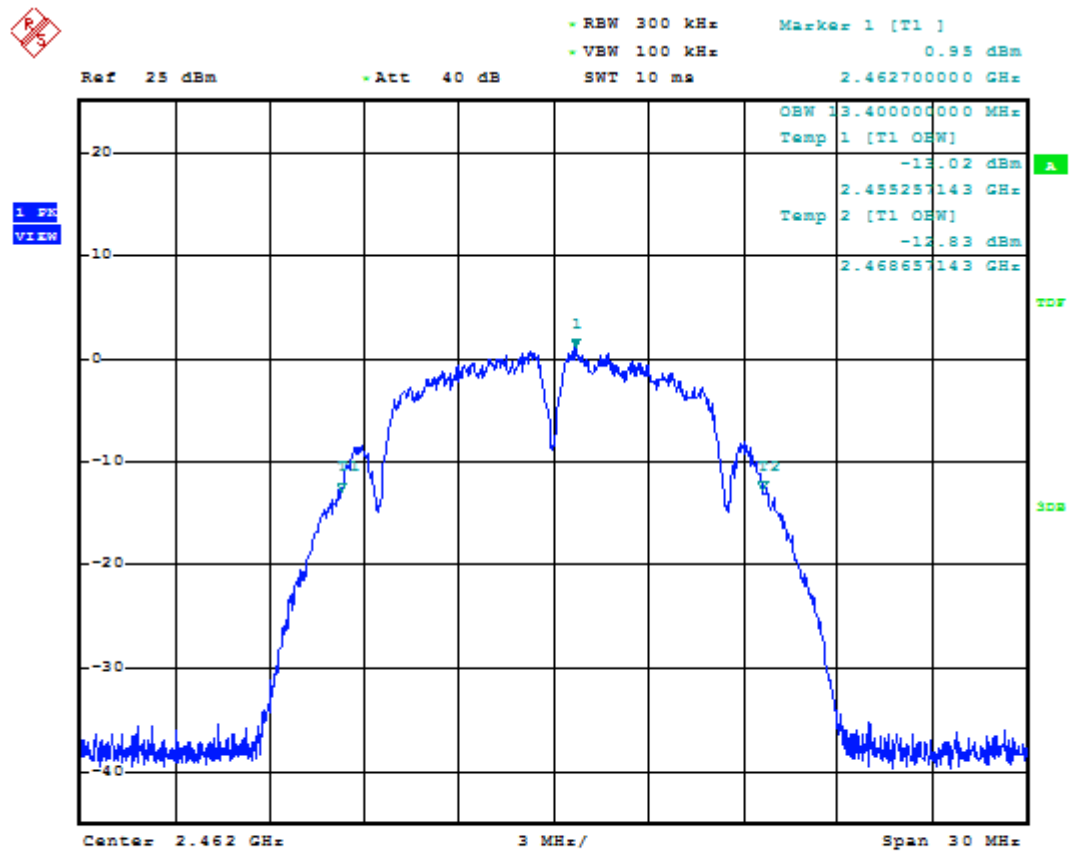
1.6.1. b-Mode



b-mode, channel 1, 2Mbit

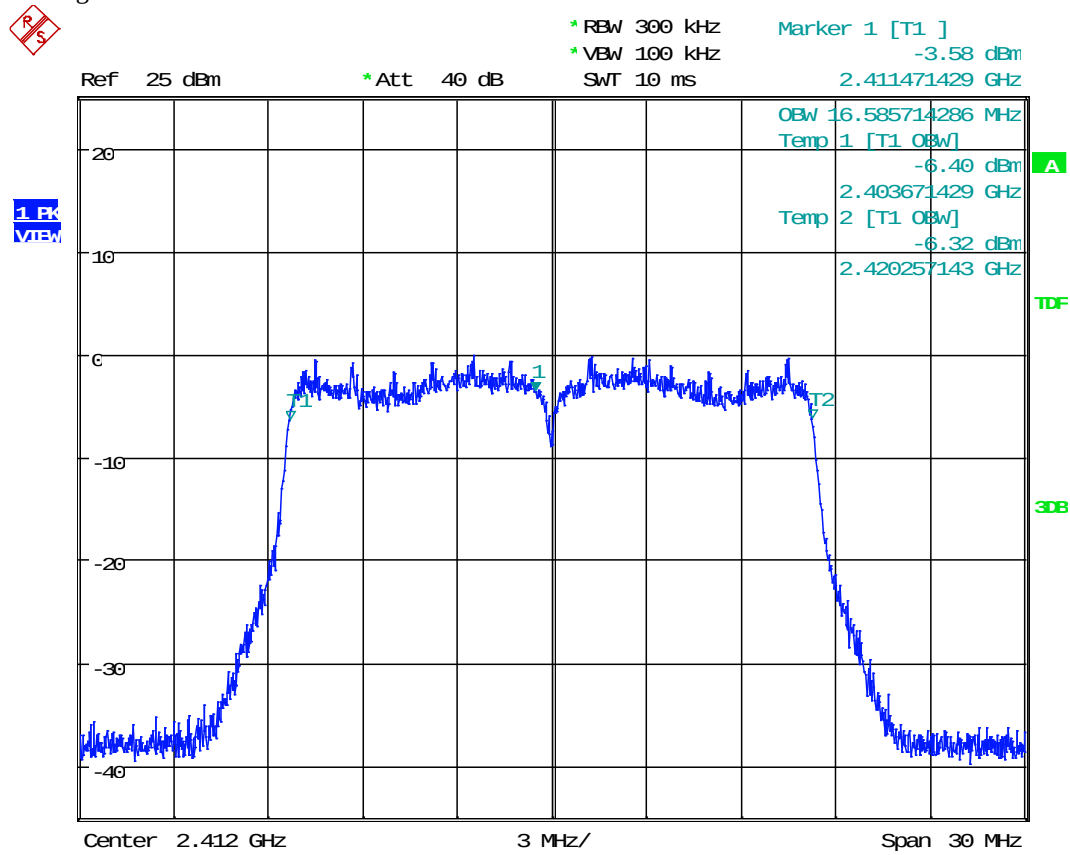


b-mode, channel 6, 2Mbit



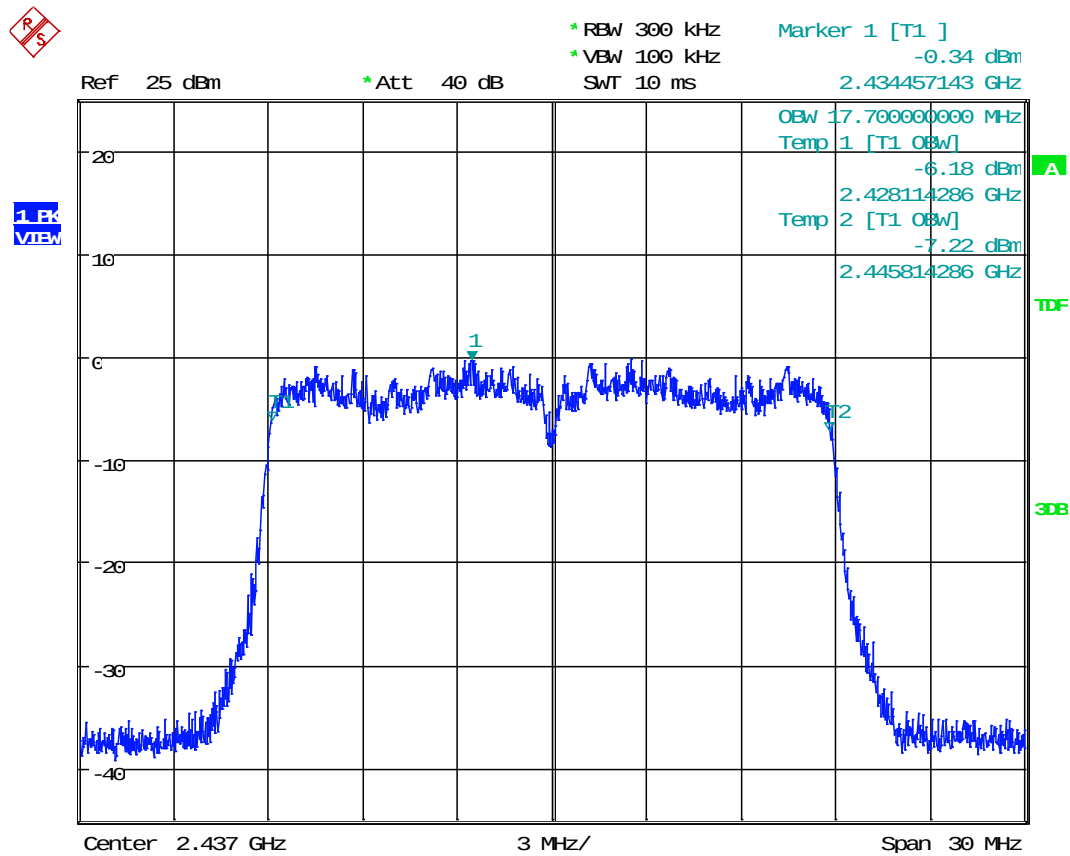
b-mode, channel 11, 2Mbit

1.6.2. g-Mode



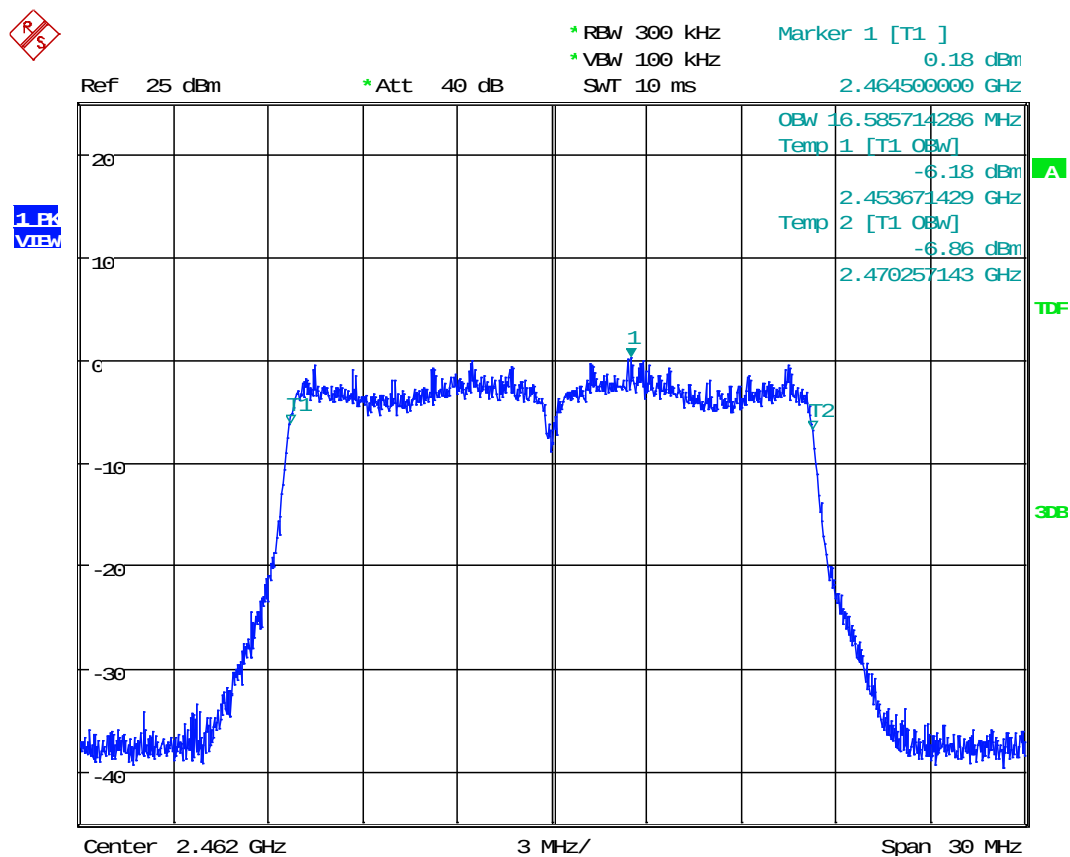
Date: 26.JUN.2017 19:49:05

g-mode, channel 1, 12Mbit



Date: 26.JUN.2017 19:52:08

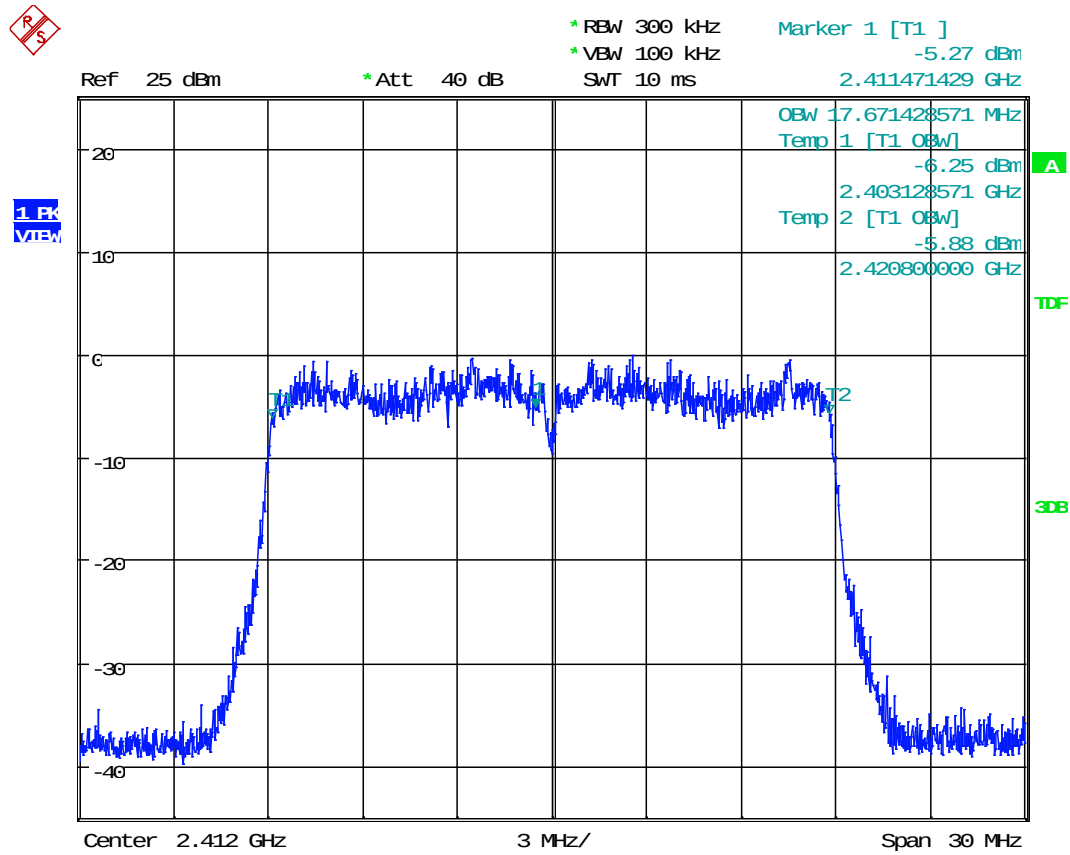
g-mode, channel 6, 12Mbit



Date: 26.JUN.2017 19:54:24

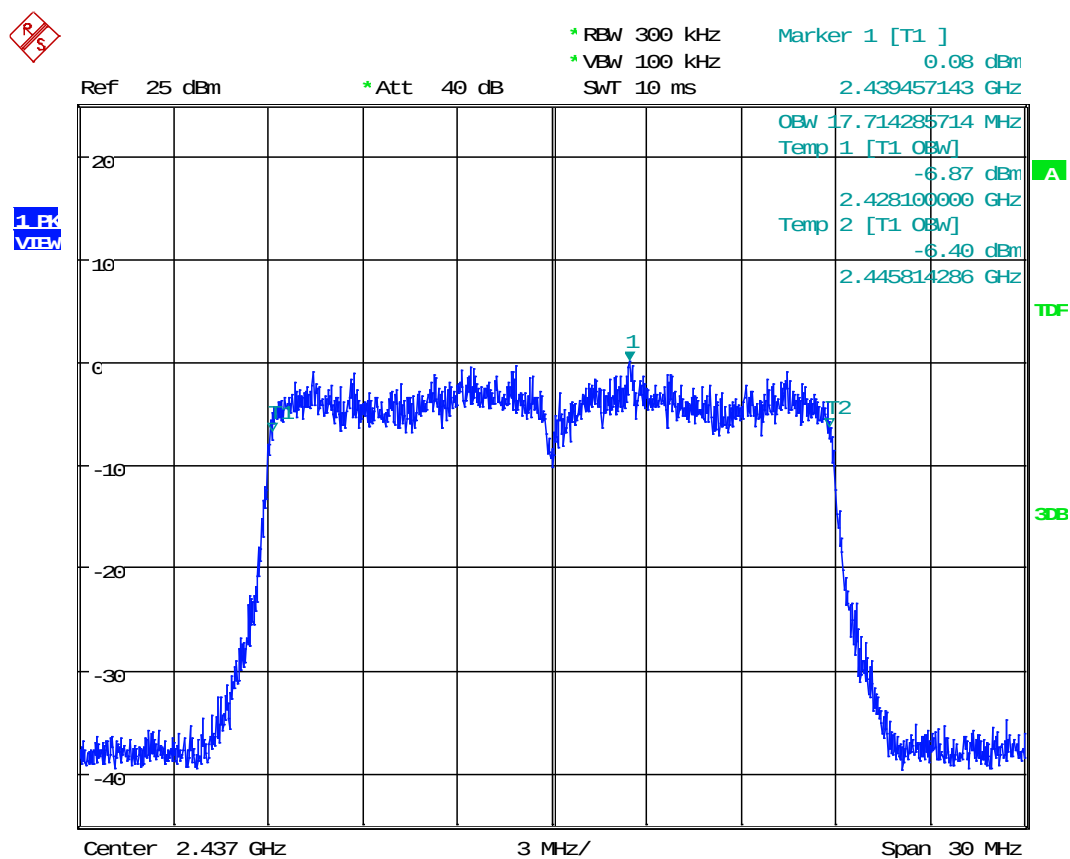
g-mode, channel 11, 12Mbit

1.6.3. n-Mode



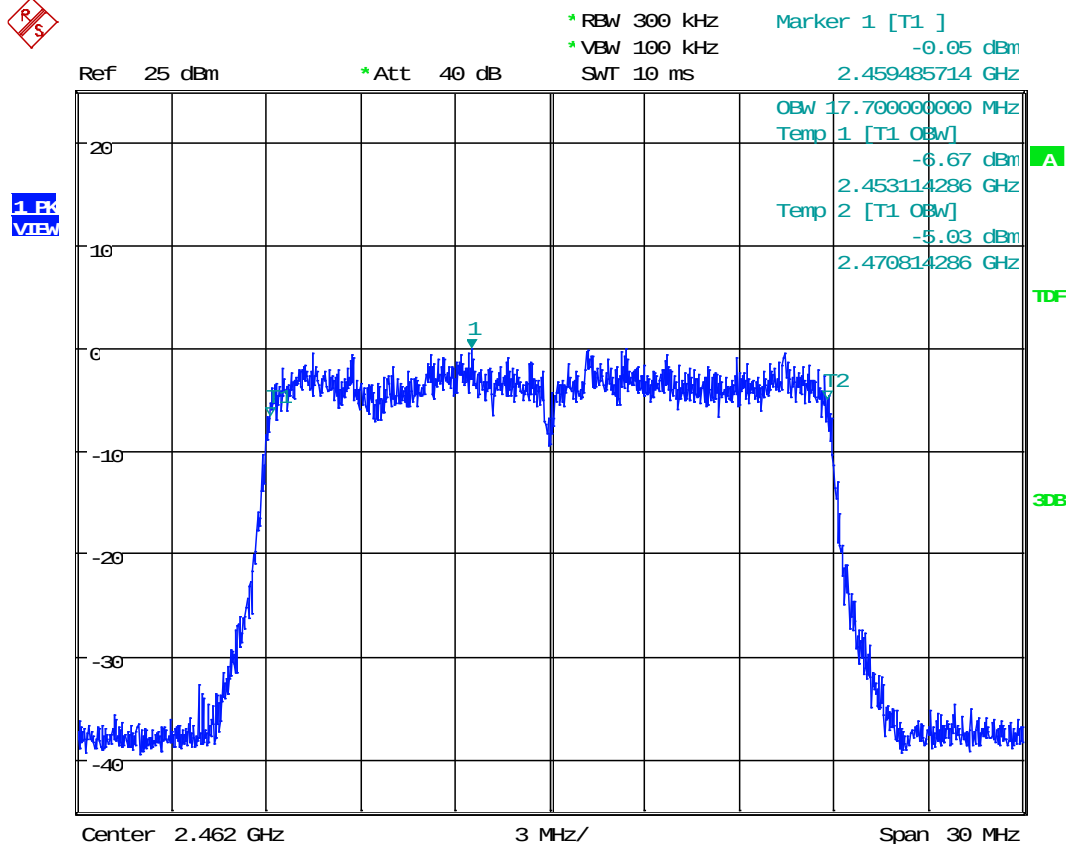
Date: 26.JUN.2017 19:49:40

n-mode HT20, channel 1, MCS6



Date: 26.JUN.2017 19:52:48

n-mode HT20, channel 6, MCS6

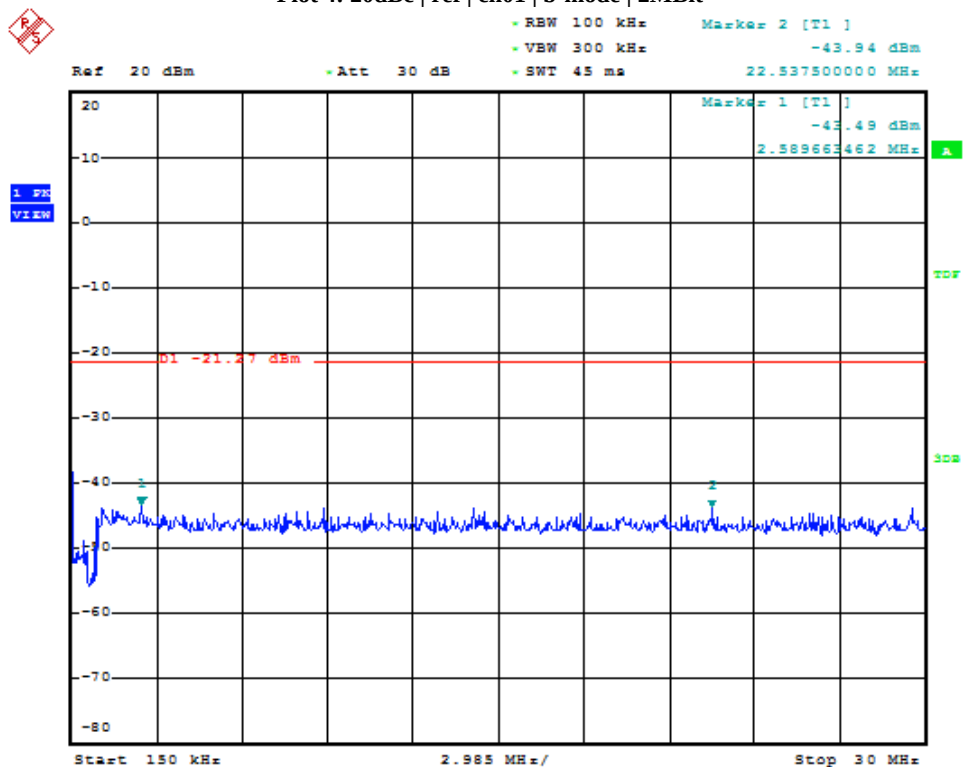
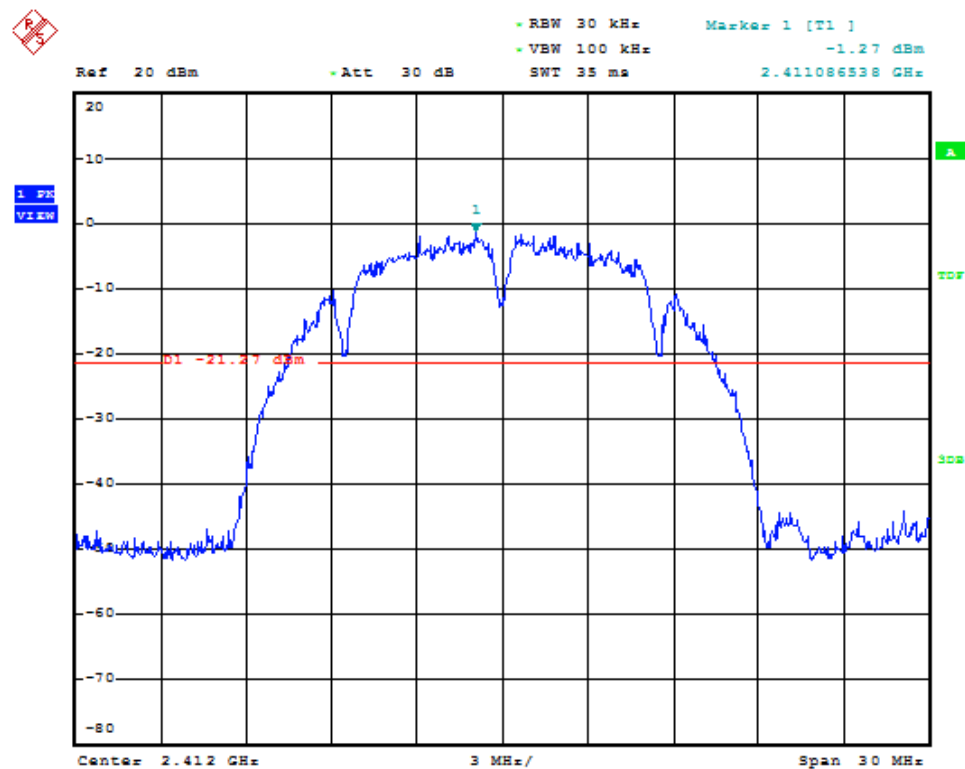


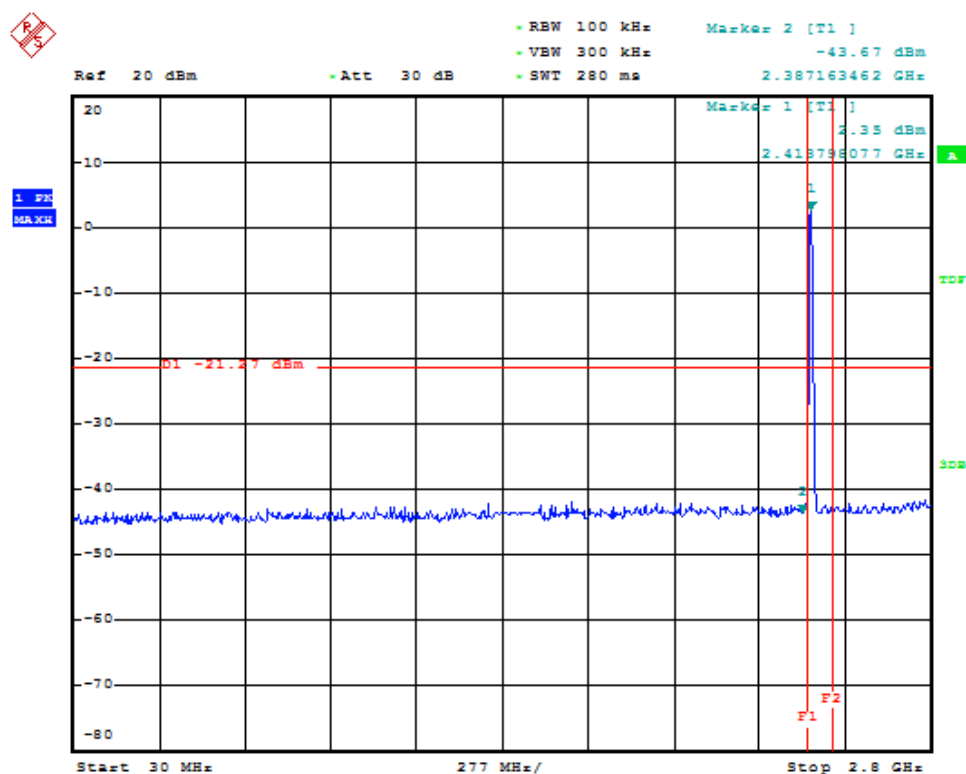
Date: 26.JUN.2017 19:54:58

n-mode HT20, channel 11, MCS6

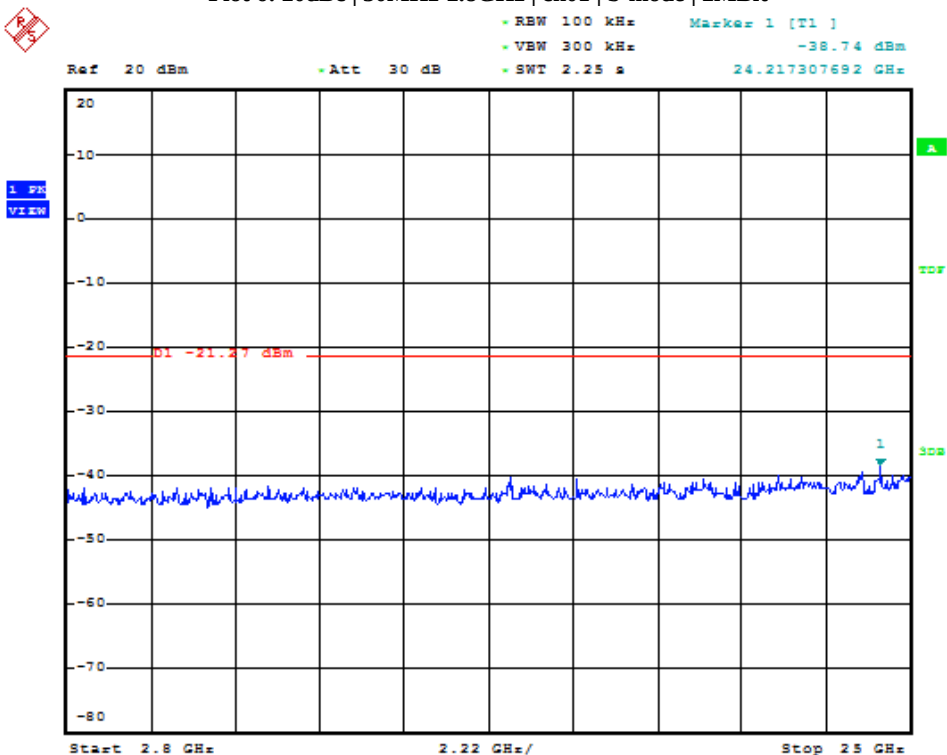
1.7. 20dBc Measurement

1.7.1. bMode 0,15MHz – 25 GHz CH01



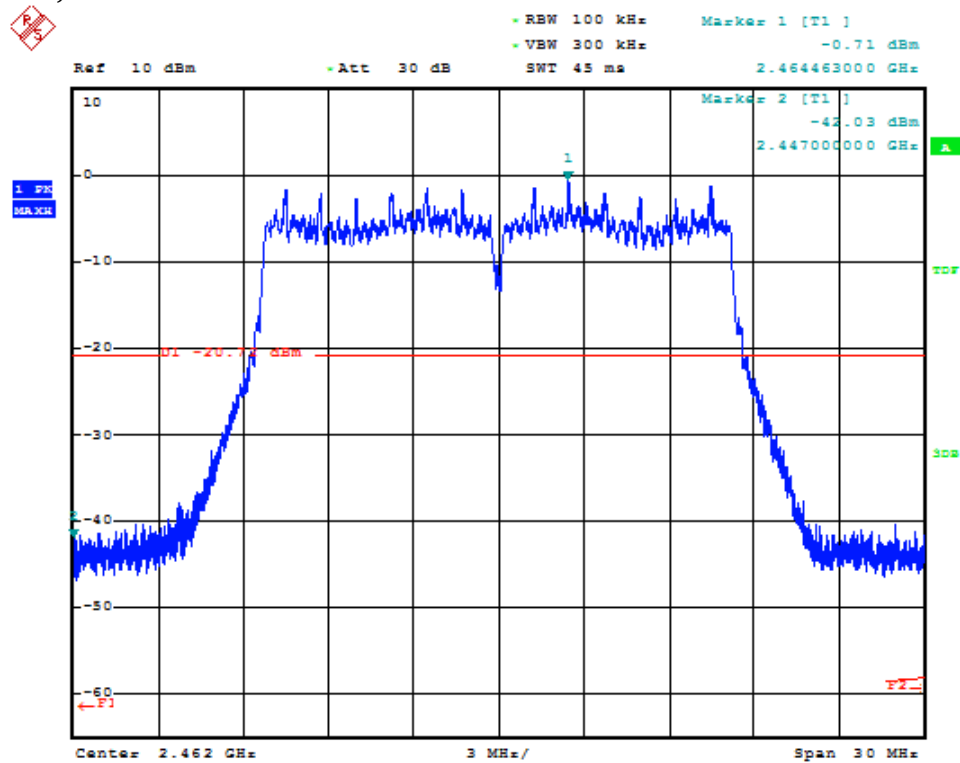


Plot 6: 20dBc | 30MHz-2.8GHz | ch01 | b-mode | 2MBit

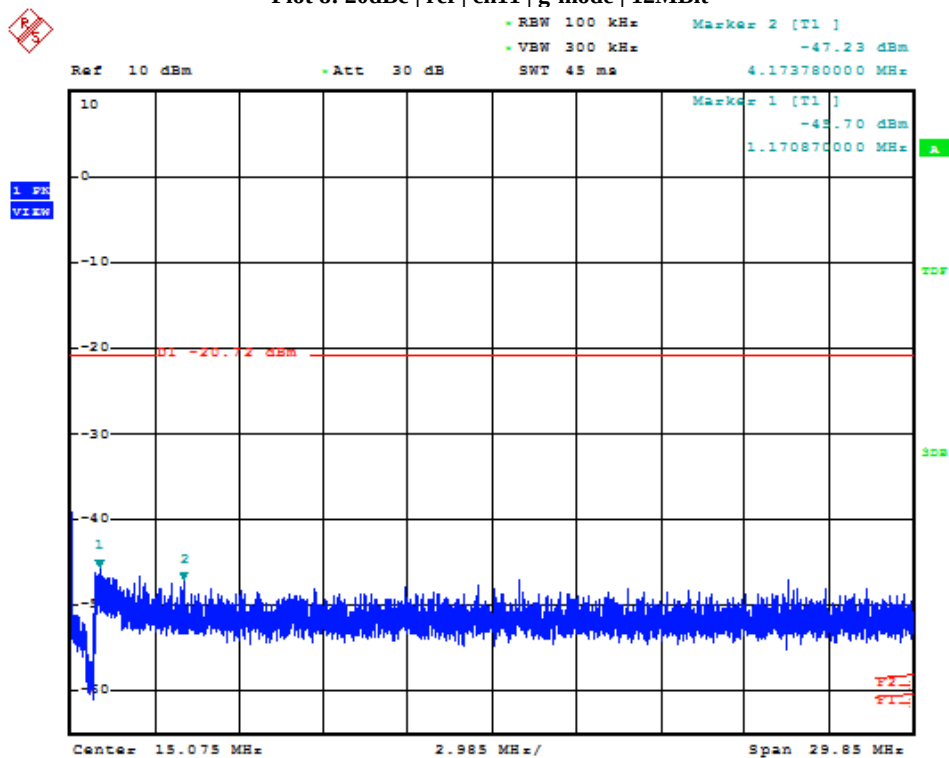


Plot 7: 20dBc | 2.8GHz-25GHz | ch01 | b-mode | 2MBit

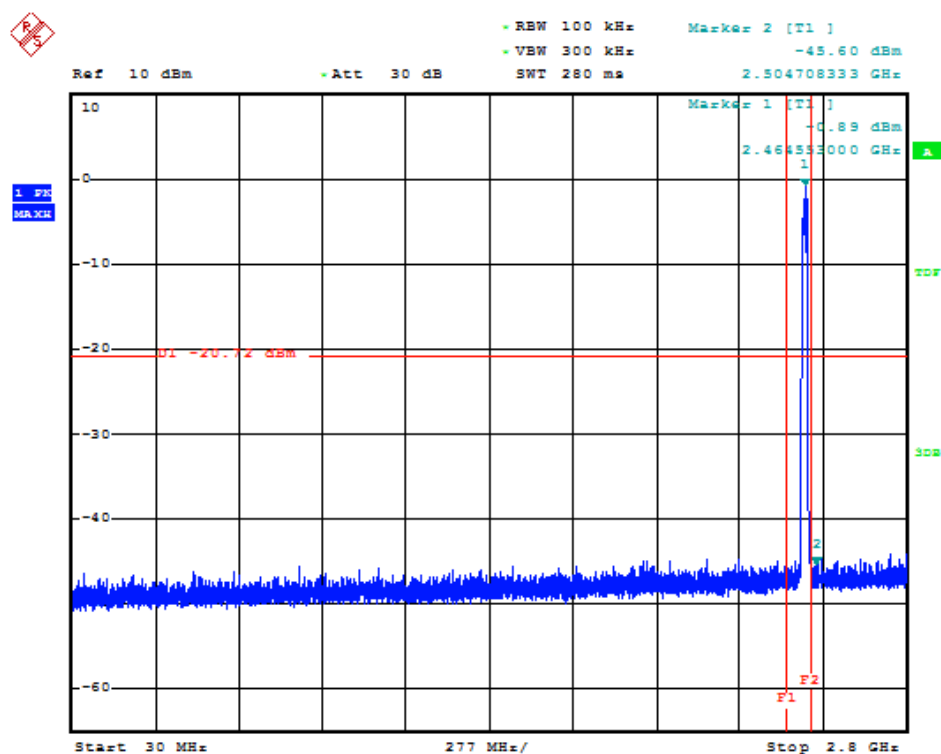
1.7.2. g Mode 0,15MHz – 25GHz CH11



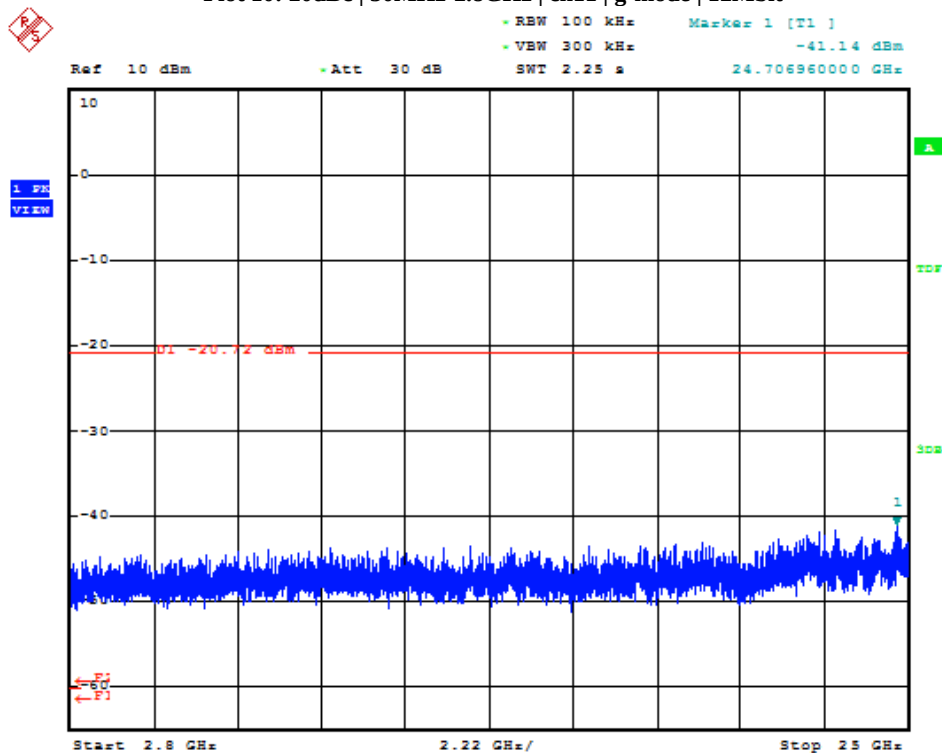
Plot 8: 20dBc | ref | ch11 | g-mode | 12MBit



Plot 9: 20dBc | 0.15-30MHz | ch11 | g-mode | 12MBit

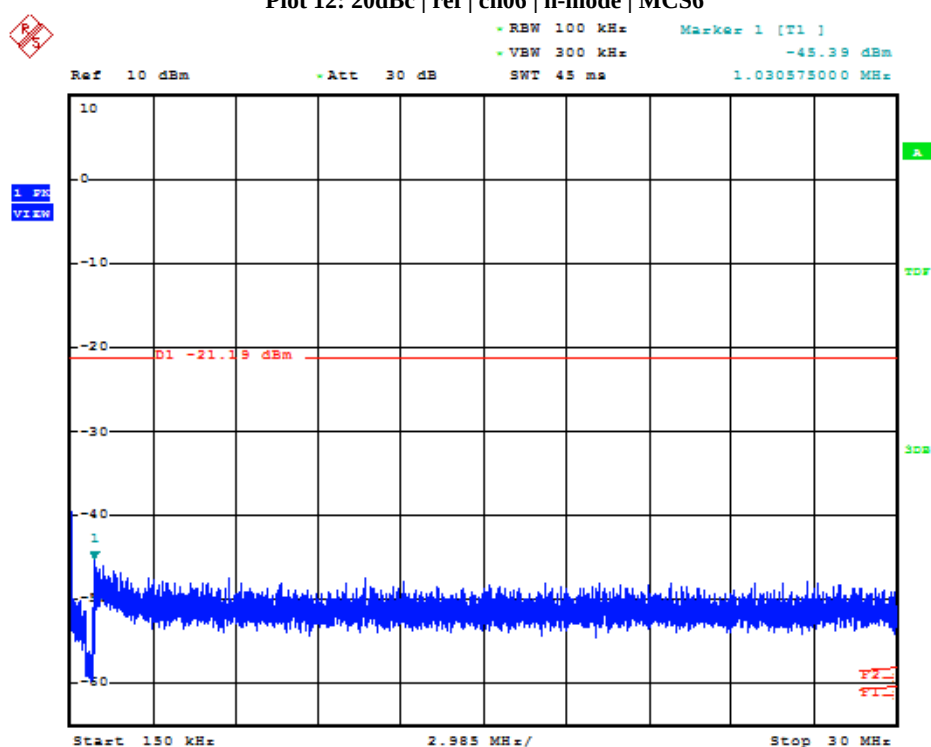
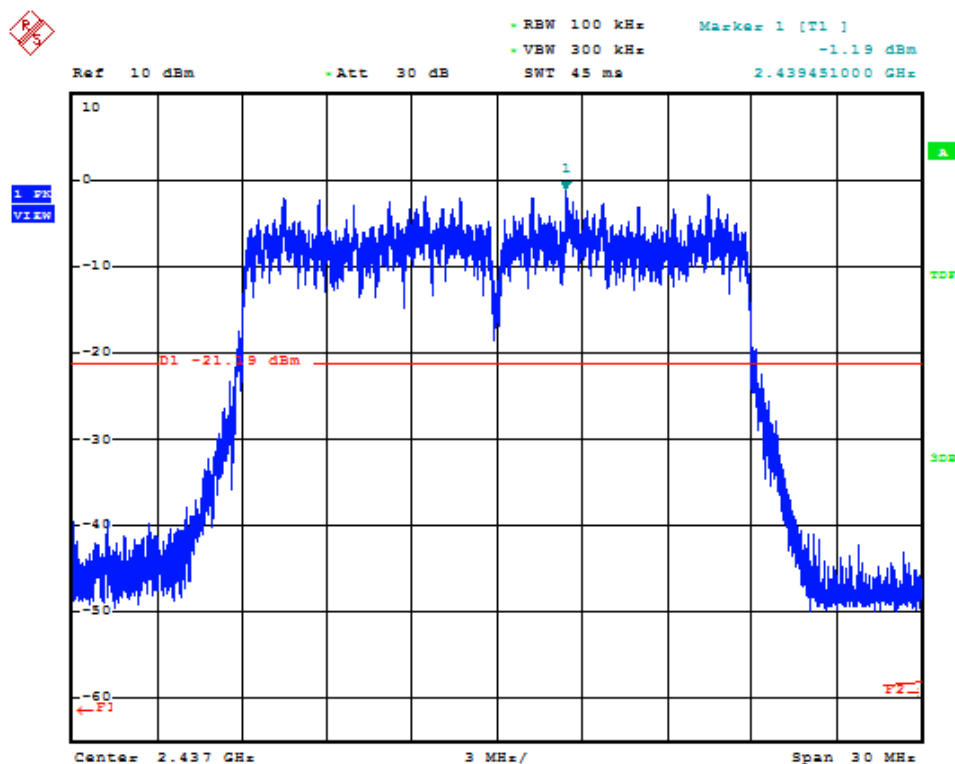


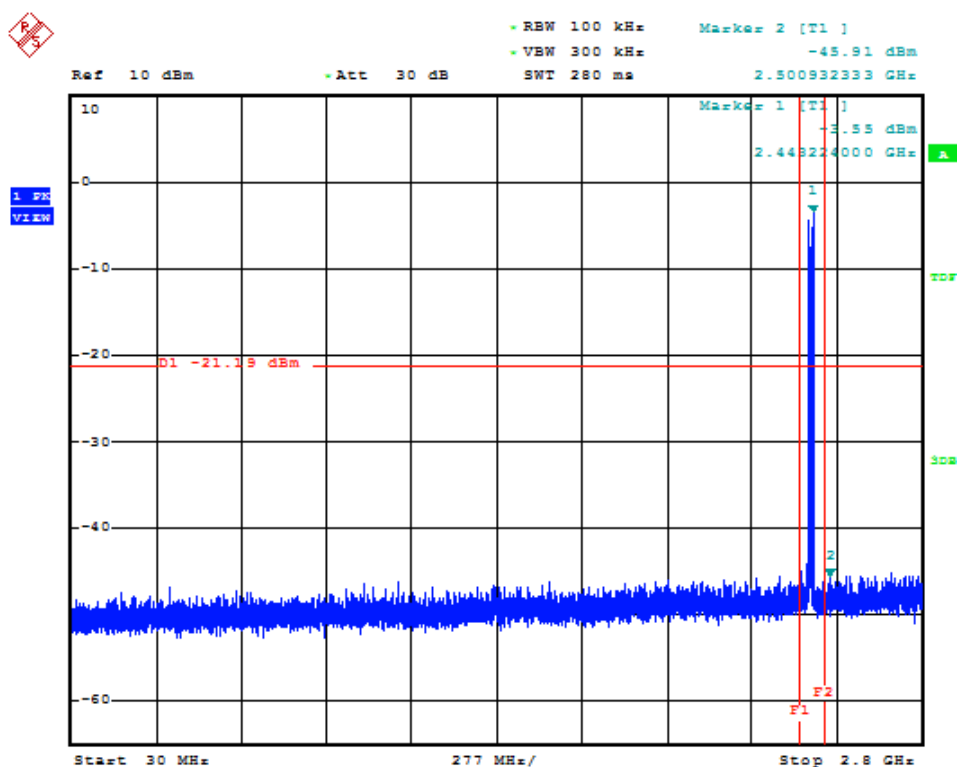
Plot 10: 20dBc | 30MHz-2.8GHz | ch11 | g-mode | 12Mbit



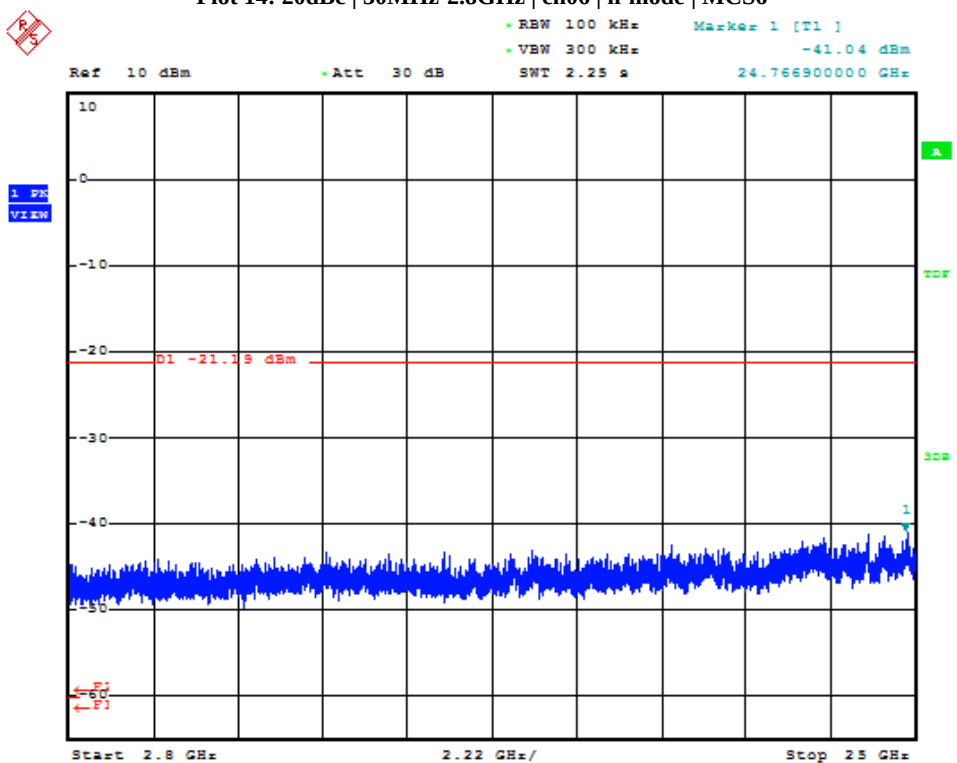
Plot 11: 20dBc | 2.8GHz-25GHz | ch11 | g-mode | 12MBit

1.7.3. n Mode 0,15MHz – 25 GHz CH06





Plot 14: 20dBc | 30MHz-2.8GHz | ch06 | n-mode | MCS6



Plot 15: 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_b mode_2Mbps_Ch1_standing

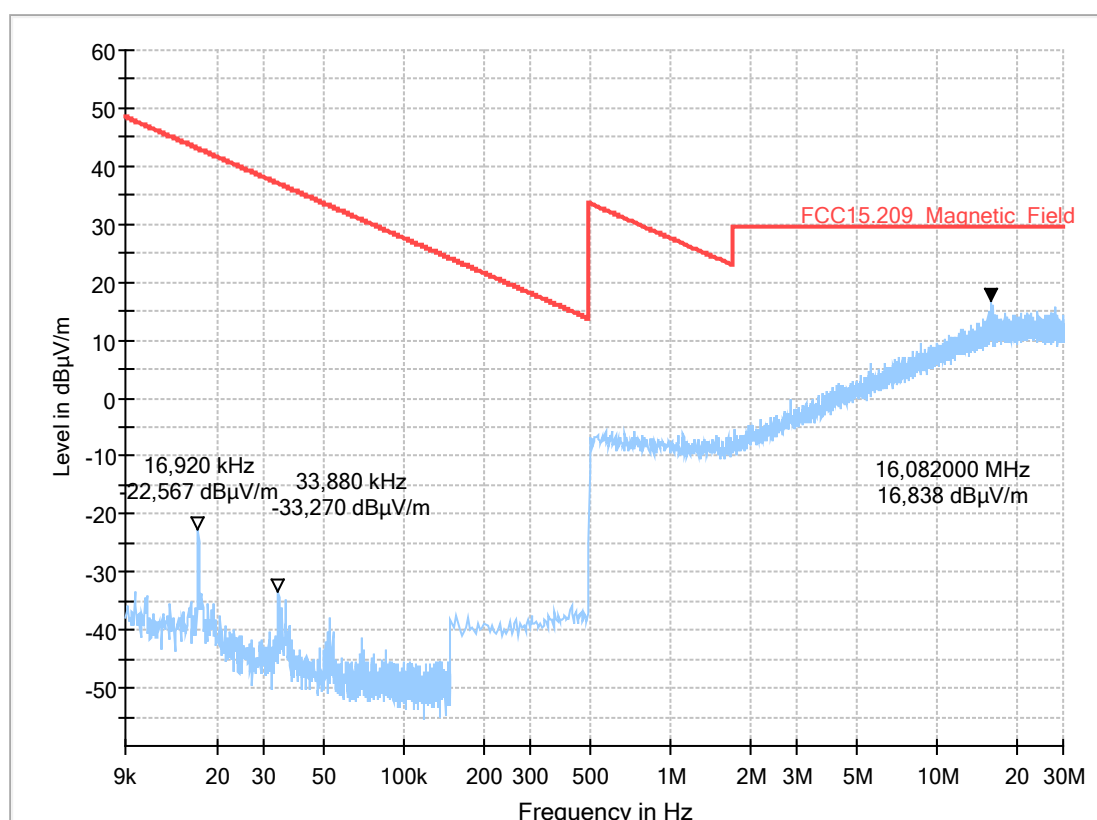
Common Information

Test description:	Magnetic Field Strength Measurement related to 30 m distance
Test site and distance:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Version of Testsoftware:	EMC32 V9.25.0
Technical Data:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Test specification.:	height 1.00 m, parallel and 90° to EUT polarisation
Operator:	KIv
Operating conditions:	WLAN_b_mode
Power during tests:	24 VDC
Comment 1:	standing

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



2.01b_WLAN_b mode_2Mbps_Ch1_laying

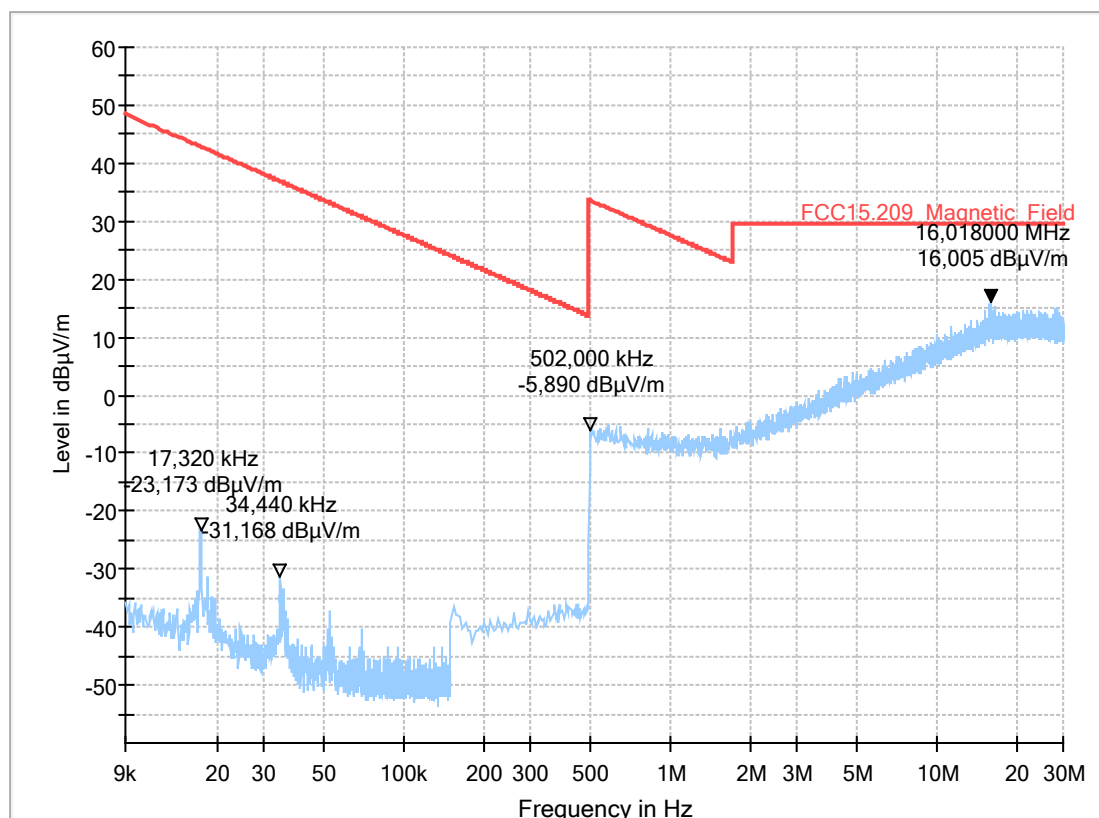
Common Information

Test description:	17.05.2017 Page 1 of 1
Test site and distance:	Magnetic Field Strength Measurement related to 30 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Technical Data:	EMC32 V9.25.0
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	height 1.00 m, parallel and 90° to EUT polarisation
Operating conditions:	Mah
Power during tests:	WLAN_g_mode
Comment 1:	24 VDC
	laying

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



2.02a_WLAN_g mode_12Mbps_Ch11_standing

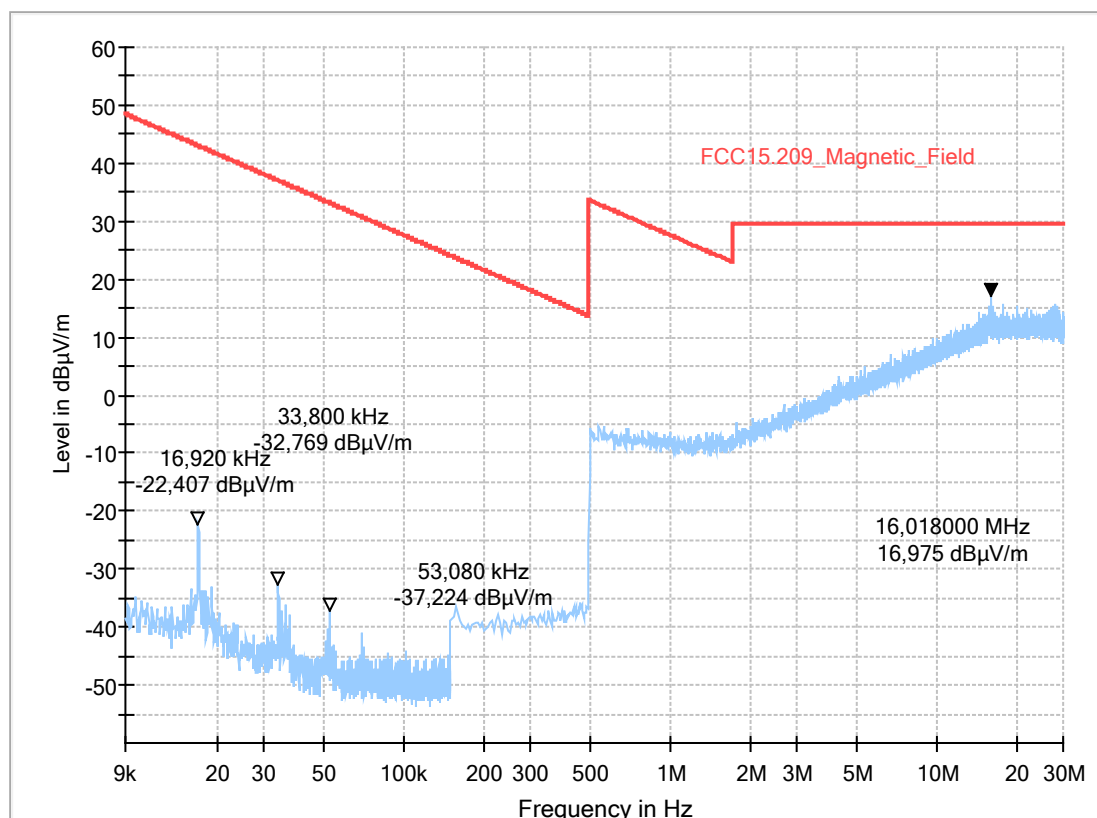
Common Information

Test description:	18.05.2017 Page 1 of 1
Test site and distance:	Magnetic Field Strength Measurement related to 30 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Technical Data:	EMC32 V9.25.0
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	height 1.00 m, parallel and 90° to EUT polarisation
Operating conditions:	KIv
Power during tests:	WLAN_g_mode
Comment 1:	24 VDC
	standing

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



2.02b_WLAN_g mode_12Mbps_Ch11_laying

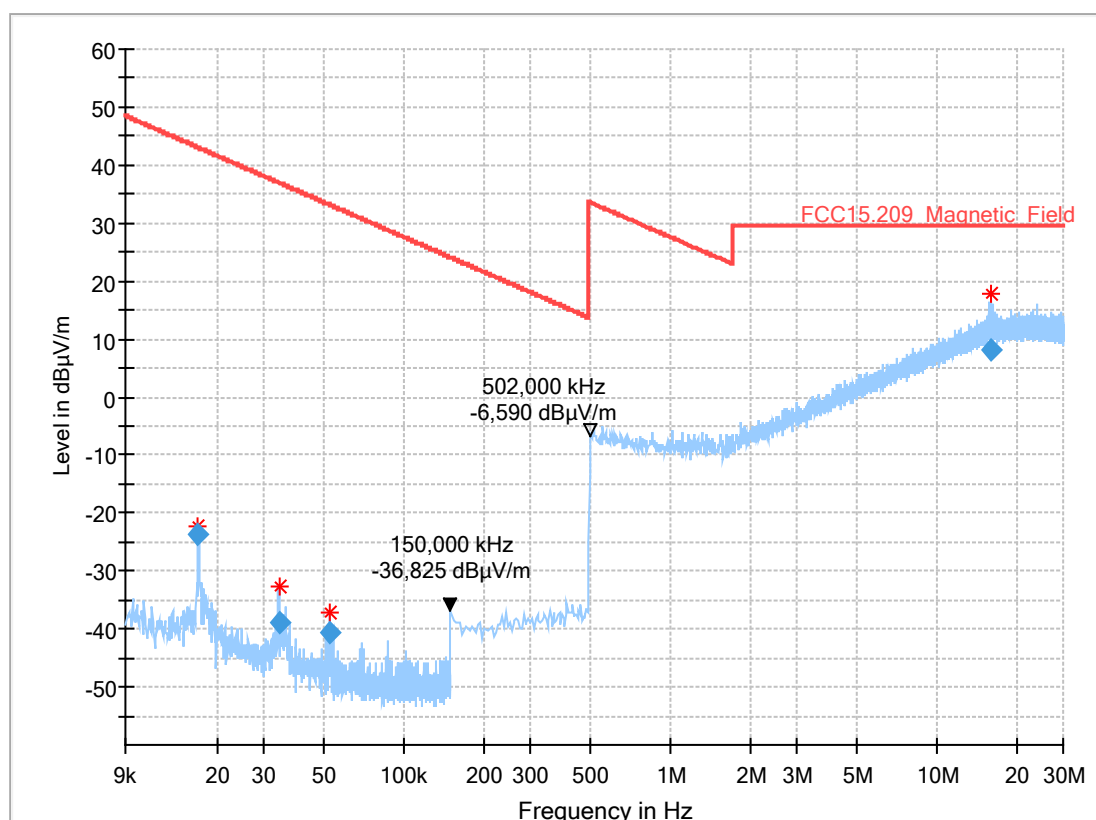
Test description:	18.05.2017 Page 1 of 2
Test site and distance:	Magnetic Field Strength Measurement related to 30 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Technical Data:	EMC32 V9.25.0
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	height 1.00 m, parallel and 90° to EUT polarisation
Operating conditions:	Mah
Power during tests:	WLAN_g_mode
Comment 1:	24 VDC
	laying

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)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.016920	-23.81	43.03	66.83	1000.0	0.200	100.0	V	62.0	-58.7
0.033960	-38.97	36.98	75.95	1000.0	0.200	100.0	V	234.0	-59.5
0.053080	-40.47	33.10	73.57	1000.0	0.200	100.0	V	13.0	-59.7
15.946000	8.24	29.54	21.30	1000.0	10.000	100.0	H	74.0	0.1

2.03a_WLAN_n mode_MCS6_Ch6_standing

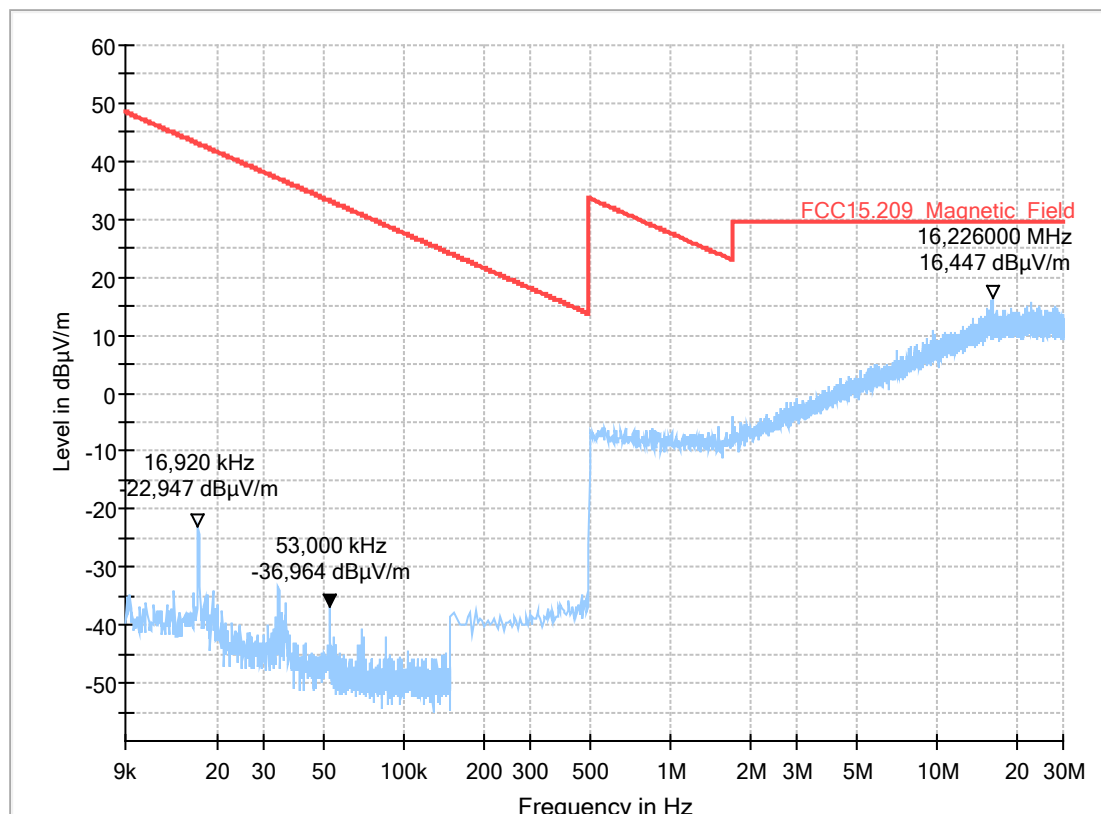
Common Information

Test description:	18.05.2017 Page 1 of 1
Test site and distance:	Magnetic Field Strength Measurement related to 30 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Technical Data:	EMC32 V9.25.0
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	height 1.00 m, parallel and 90° to EUT polarisation
Operating conditions:	KIv
Power during tests:	WLAN_n_mode
Comment 1:	24 VDC
	laying

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



2.03b_WLAN_n mode_MCS6_Ch6_laying

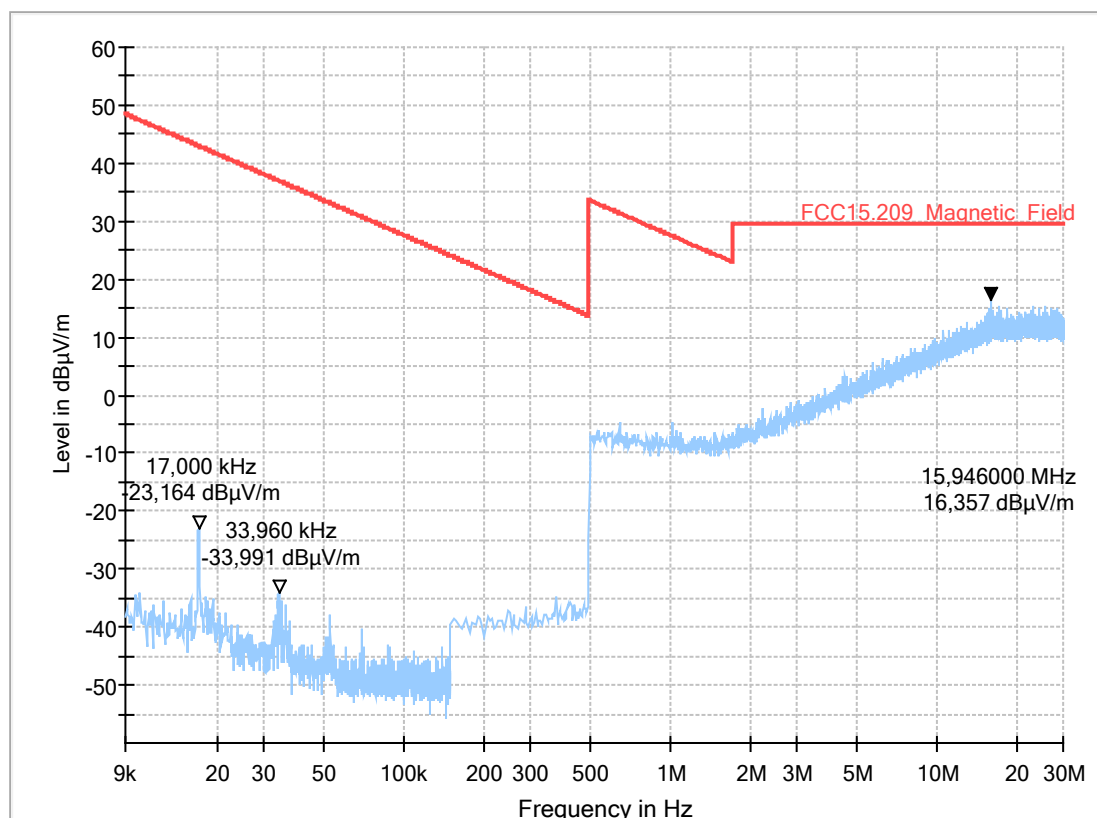
Common Information

Test description:	18.05.2017 Page 1 of 1
Test site and distance:	Magnetic Field Strength Measurement related to 30 m distance
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Technical Data:	EMC32 V9.25.0
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 4
Operator:	height 1.00 m, parallel and 90° to EUT polarisation
Operating conditions:	KIv
Power during tests:	WLAN_n_mode
Comment 1:	24 VDC
	laying

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



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

3.01a_WLAN_b mode_2Mbps_Ch1_standing

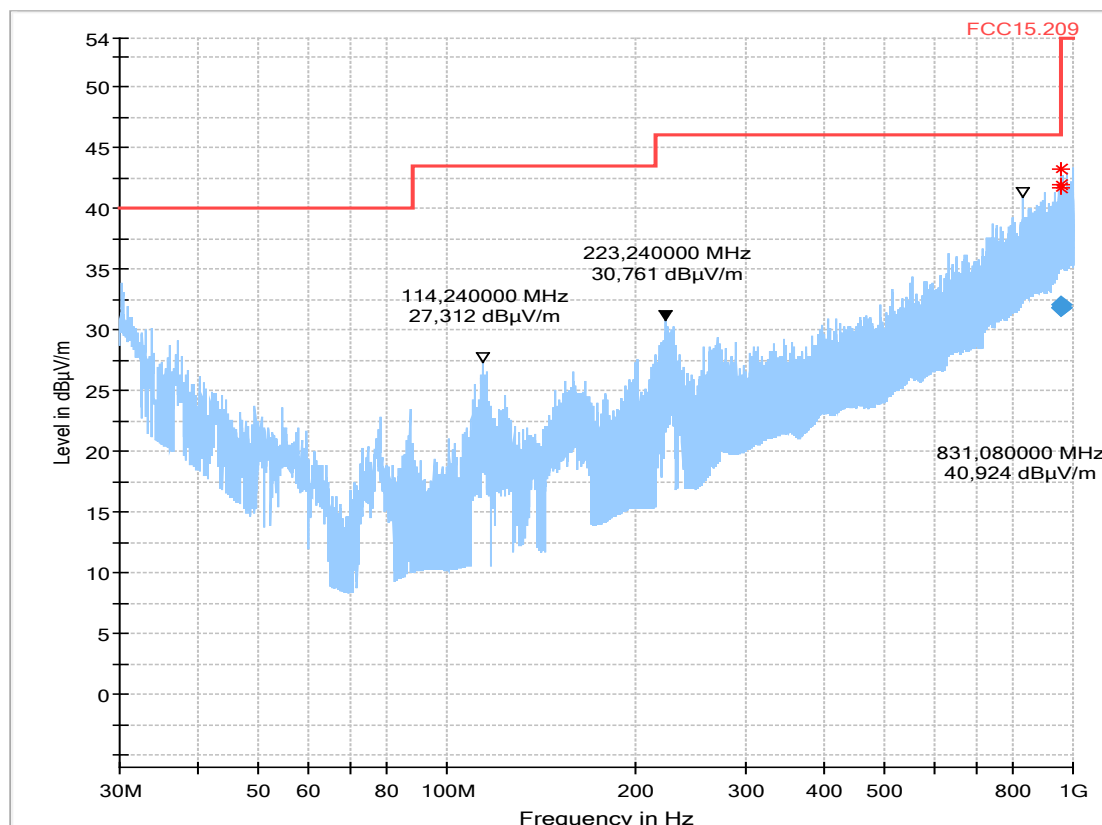
Common Information

Test description:	14.05.2017 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
Technical Data:	EMC32 V9.25.0
Test specification.:	please see page 2 for detailed data of measurement setup
Operator:	FCC 15.209; RSS-Gen: Issue 3
Operating conditions:	KIv
Power during tests:	WLAN_b_mode
Comment 1:	24 VDC
	standing

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 VDC

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
954.664000	31.83	46.00	14.17	1000.0	120.000	340.0	V	96.0	27.3
955.900000	31.87	46.00	14.13	1000.0	120.000	220.0	H	352.0	27.4
958.524000	32.12	46.00	13.88	1000.0	120.000	278.0	V	71.0	27.5

3.01b_WLAN_b mode_2Mbps_Ch1_laying

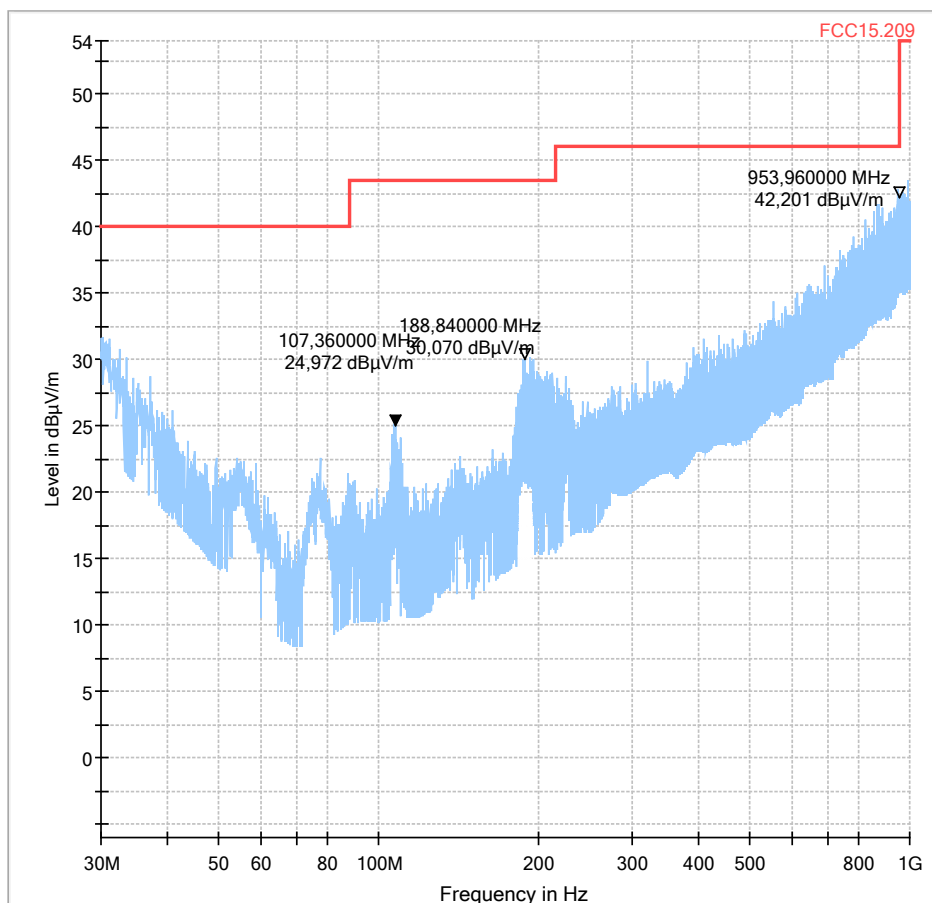
Test description:	12.05.2017 Page 1 of 6
Test site and distance:	Electric Field Strength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Technical Data:	EMC32 V9.25.0
Test specification.:	please see page 2 for detailed data of measurement setup
Operator:	FCC 15.209; RSS-Gen: Issue 3
Operating conditions:	MBe
Power during tests:	WLAN_b_mode
Comment 1:	24V DC
	laying

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 VDC

Full Spectrum



3.02a_WLAN_g mode_12Mbps_Ch11_standing

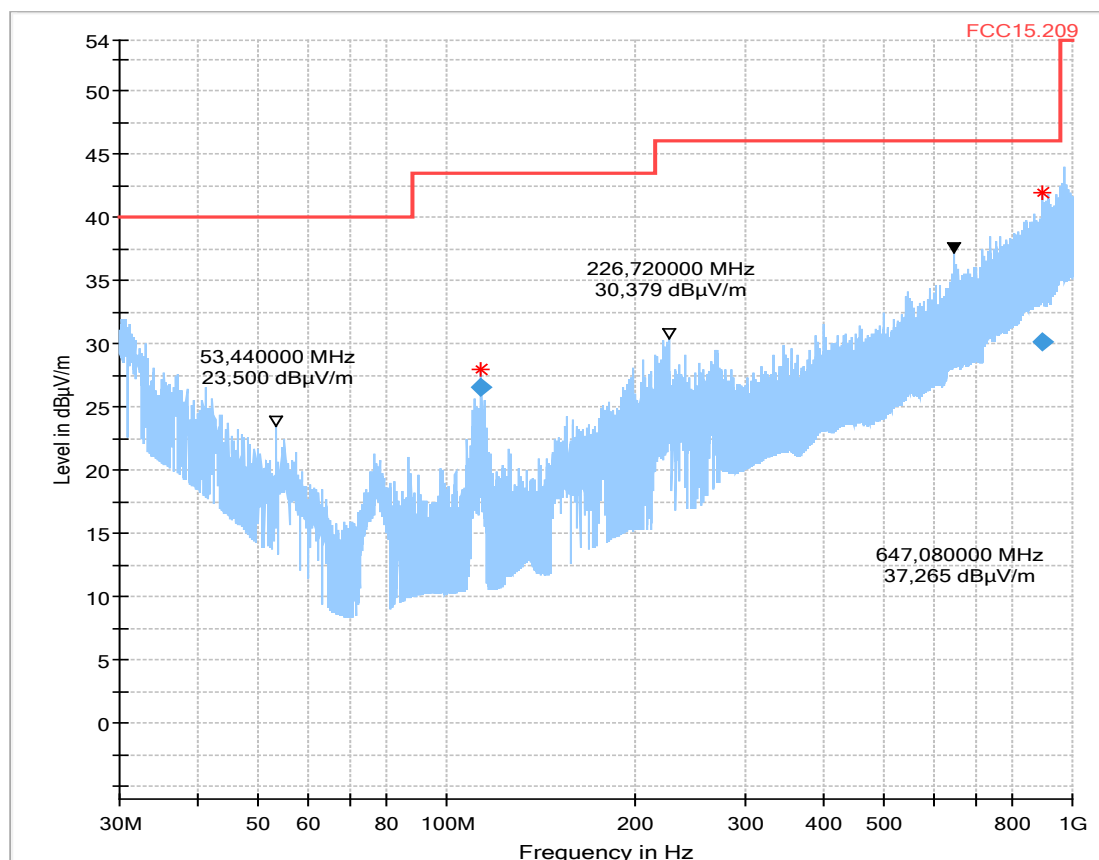
Common Information

14.05.2017 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 V9.25.0
 Technical Data: please see page 2 for detailed data of measurement setup
 Test specification.: FCC 15.209; RSS-Gen: Issue 3
 Operator: KIv
 Operating conditions: WLAN_g_mode
 Power during tests: 24 VDC
 Comment 1: standing

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 VDC

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr (dB)
113.660000	26.52	43.50	16.98	1000.0	120.000	129.0	V	322.0	8.1

895.576000	30.14	46.00	15.86	1000.0	120.000	244.0	H	30.0	26.8
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3.02b_WLAN_g mode_12Mbps_Ch11_laying

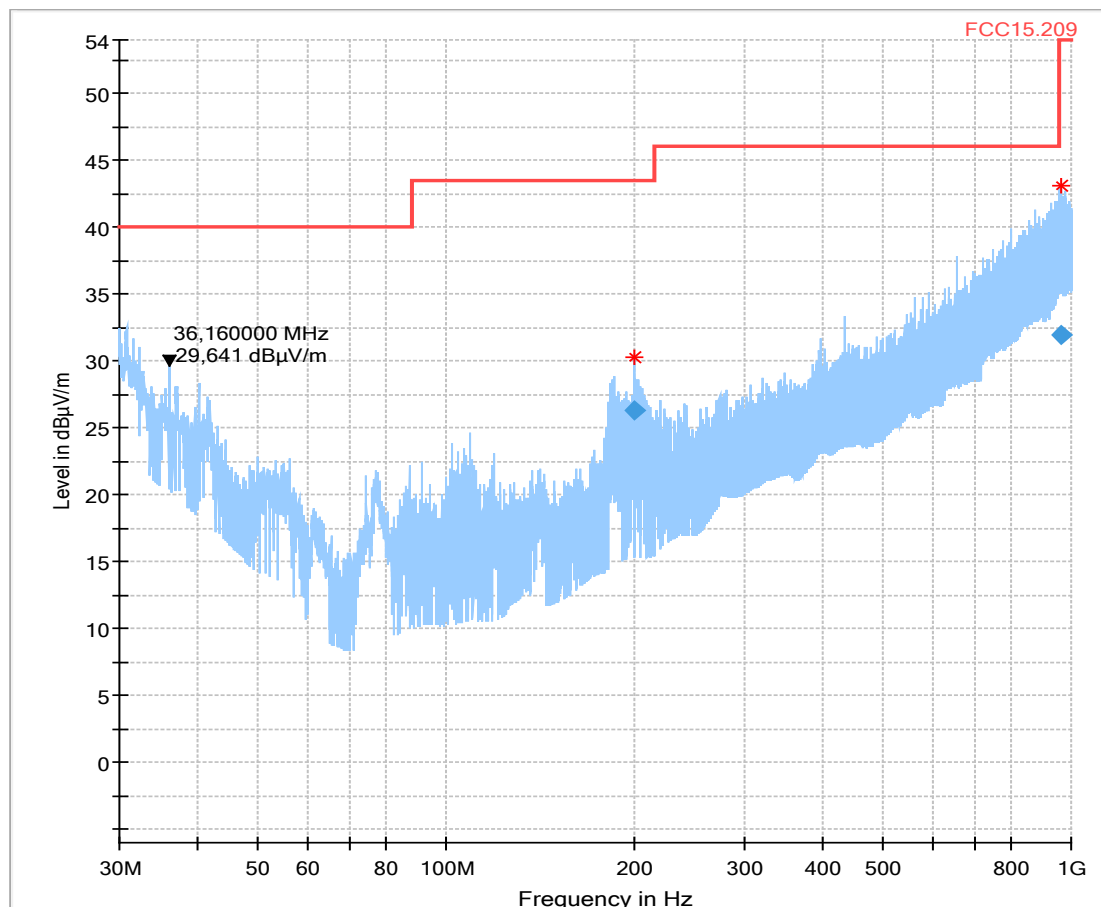
Common Information

Test description:	12.05.2017 Page 1 of 3
Test site and distance:	Electric Field Strength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Technical Data:	EMC32 V9.25.0
Test specification.:	please see page 2 for detailed data of measurement setup
Operator:	FCC 15.209; RSS-Gen: Issue 3
Operating conditions:	MBe
Power during tests:	WLAN_g_mode
Comment 1:	24 VDC
	laying

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 VDC

Full Spectrum



3.03a_WLAN_n mode_MCS6_Ch6_ standing

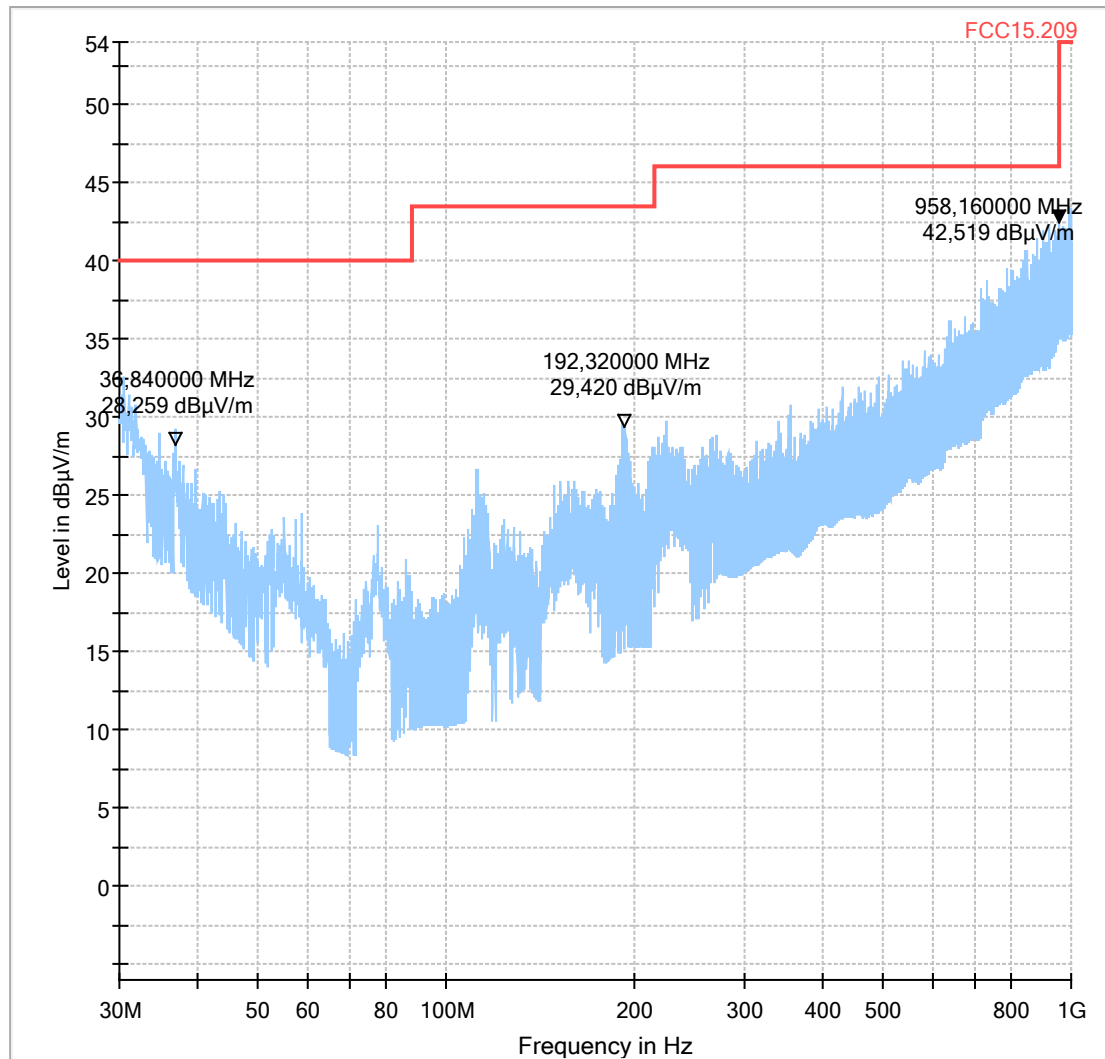
Common Information

Test description:	12.05.2017 Page 1 of 3
Test site and distance:	Electric Field Strength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Technical Data:	EMC32 V9.25.0
Test specification.:	please see page 2 for detailed data of measurement setup
Operator:	FCC 15.209; RSS-Gen: Issue 3
Operating conditions:	MBe
Power during tests:	WLAN_n_mode
Comment 1:	24 VDC
	standing

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 VDC

Full Spectrum



3.03b_WLAN_n mode_MCS6_Ch6_laying

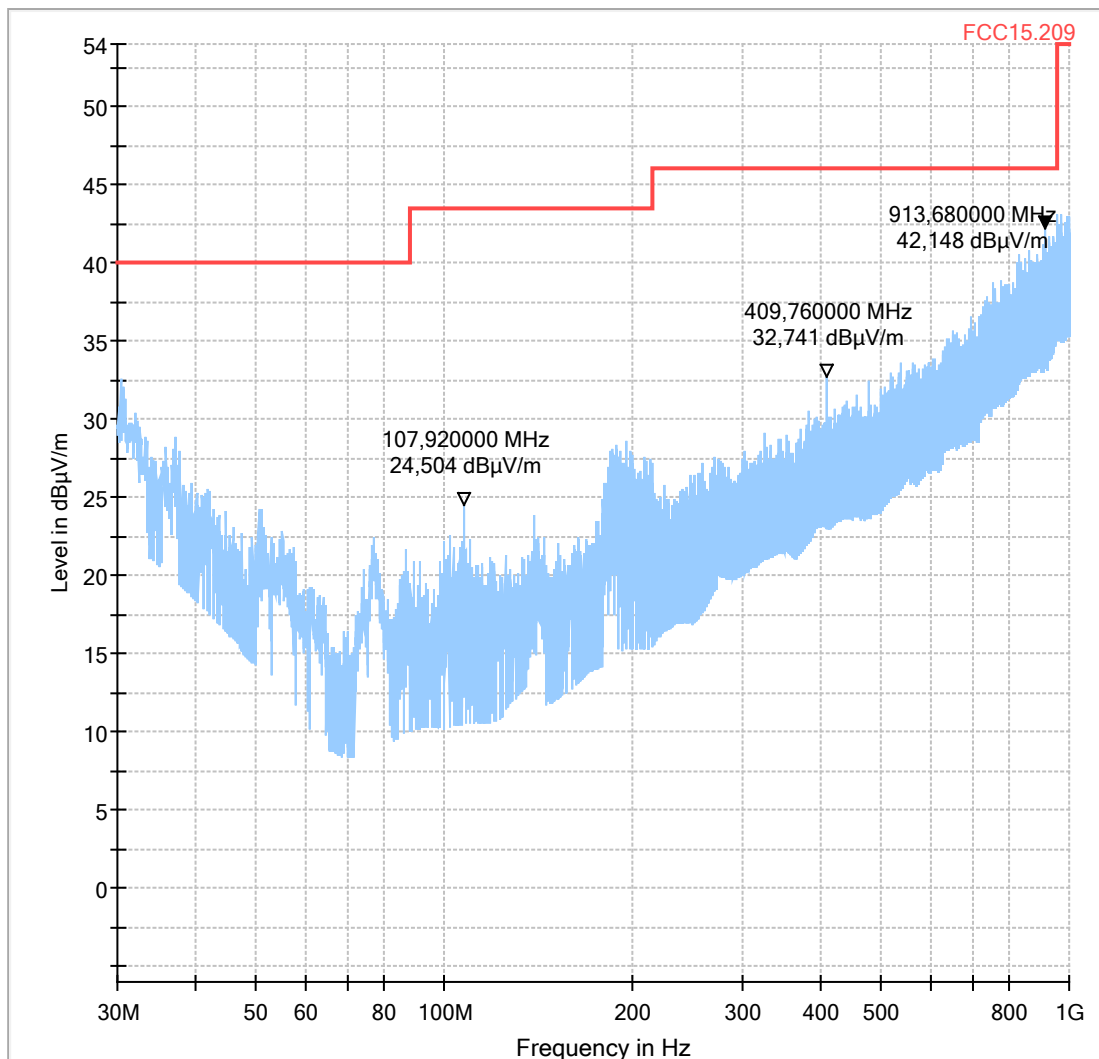
Common Information

Test description:	12.05.2017 Page 1 of 3
Test site and distance:	Electric Field Strength Measurement
Version of Testsoftware:	Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance
Technical Data:	EMC32 V9.25.0
Test specification.:	please see page 2 for detailed data of measurement setup
Operator:	FCC 15.209; RSS-Gen: Issue 3
Operating conditions:	MBe
Power during tests:	WLAN_n_mode
Comment 1:	24 VDC
	laying

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 VDC

Full Spectrum



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

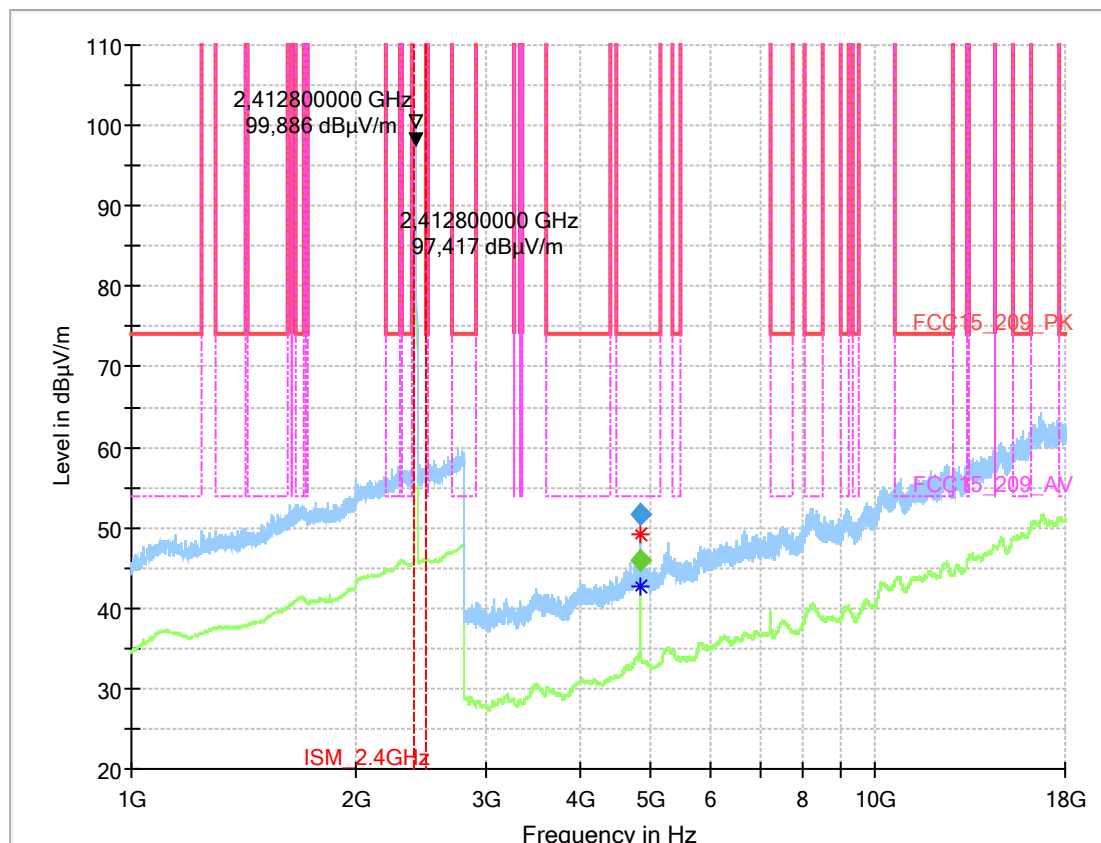
4.01a_WLAN_b mode_2Mbps_Ch1_standing

Common Information

Test Description:	Radiated field strength emission 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, WLAN b mode Ch1
Operator Name:	RIs
Comment:	standing

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 VDC



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Correction (dB)
4823.890000	---	45.99	54.00	8.01	1000.000	155.0	H	294.0	0.0	4.8
4823.930000	51.64	---	74.00	22.36	1000.000	155.0	H	291.0	0.0	4.8

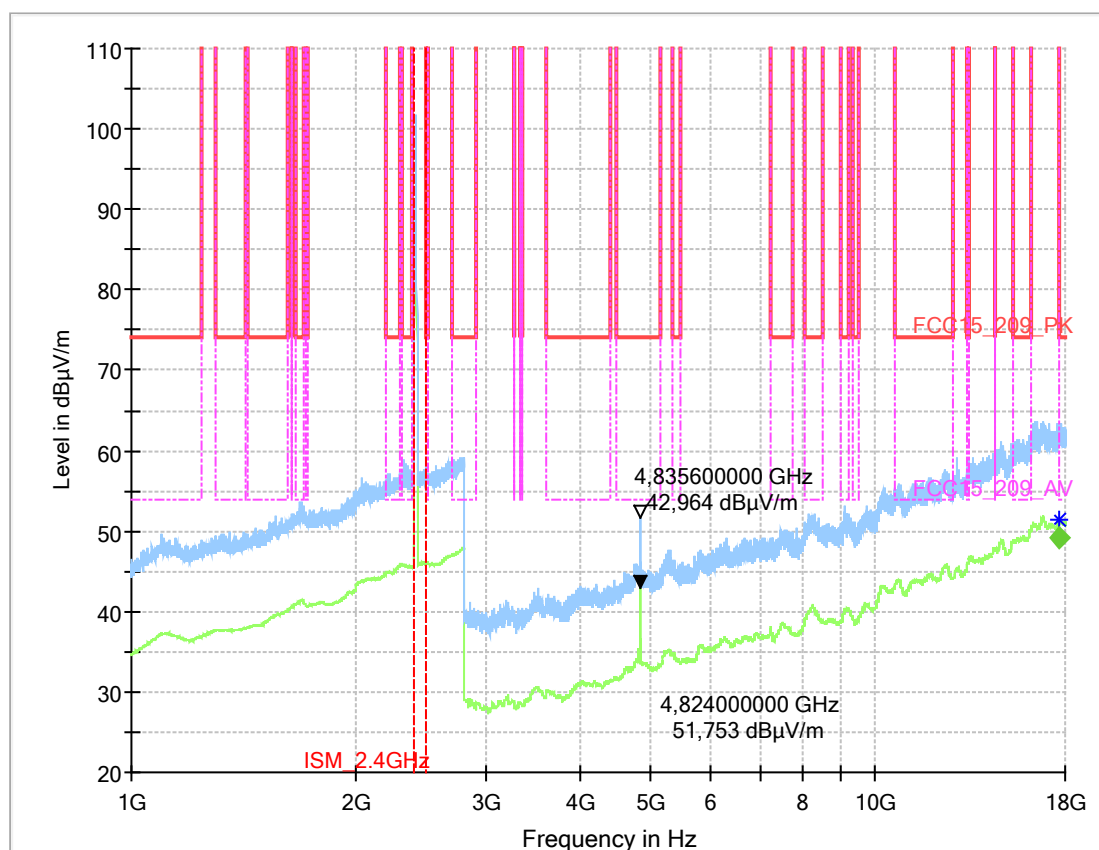
4.01b_WLAN_b mode_2Mbps_Ch1_laying

Common Information

Test Description:	Radiated field strength emission 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, WLAN b mode Ch1
Operator Name:	MBe
Comment:	laying

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 VDC



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)
17706.330000	---	49.26	54.00	4.74	100.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
17706.330000	1000.000	155.0	H	-27.0	0.0	25.6

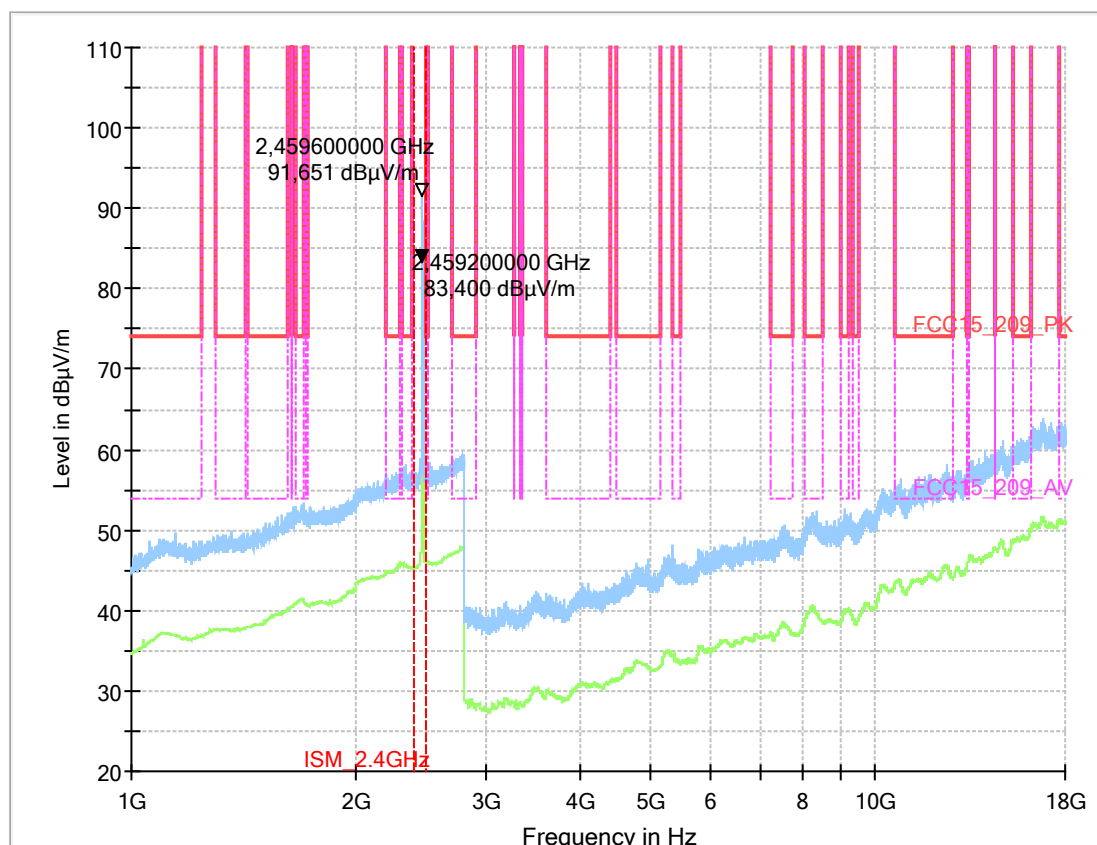
4.02a_WLAN_g mode_12Mbps_Ch11_standing

Common Information

Test Description:	Radiated field strength emission 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, WLAN g mode Ch11
Operator Name:	RIs
Comment:	standing

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 VDC



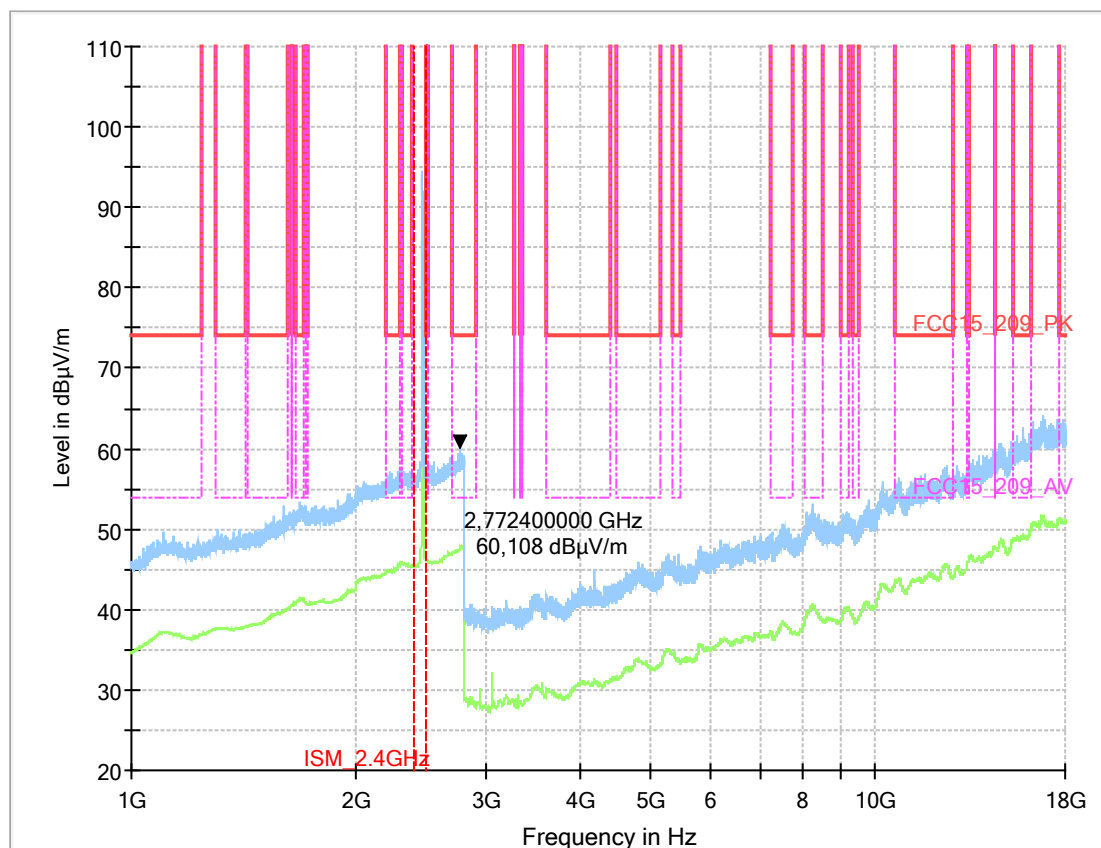
4.02b_WLAN_g mode_12Mbps_Ch11_laying

Common Information

Test Description:	Radiated field strength emission 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, WLAN g mode Ch11
Operator Name:	MBe
Comment:	laying

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 VDC



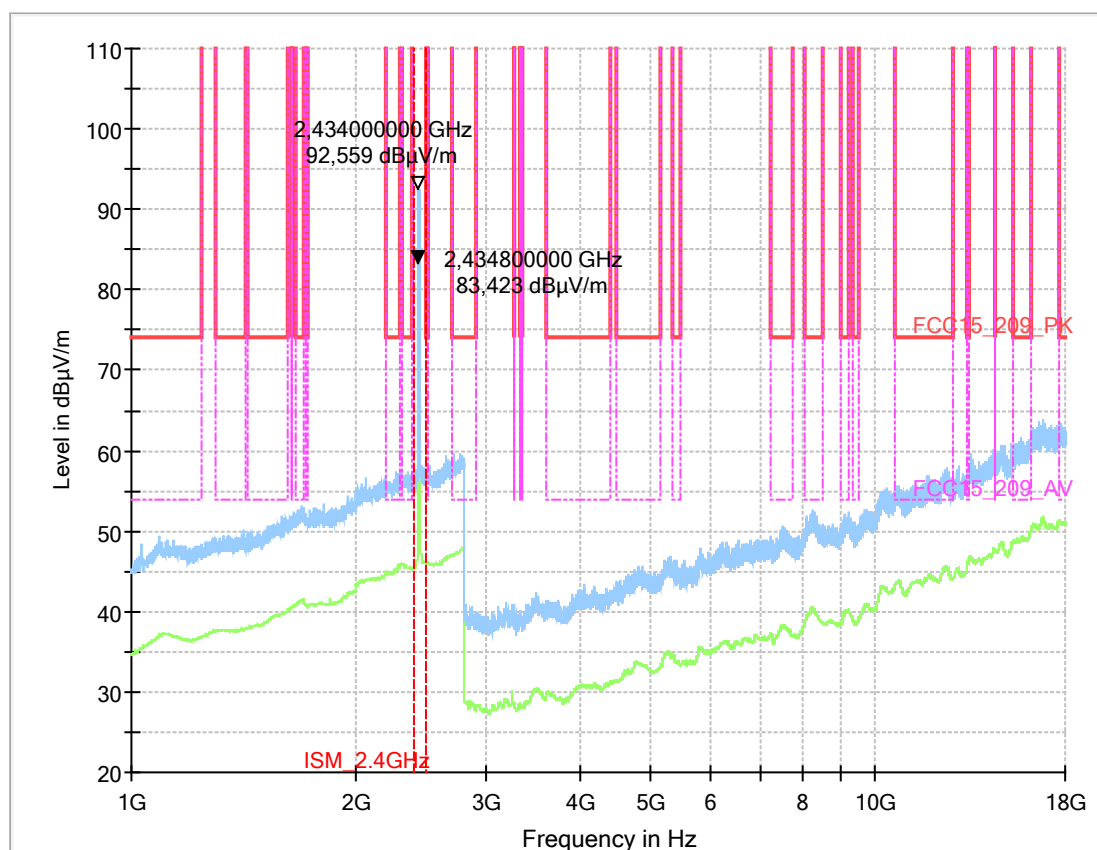
4.03a_WLAN_n mode_MCS6_Ch6_ standing

Common Information

Test Description:	Radiated field strength emission 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, WLAN n mode Ch6
Operator Name:	RLs
Comment:	standing

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 VDC



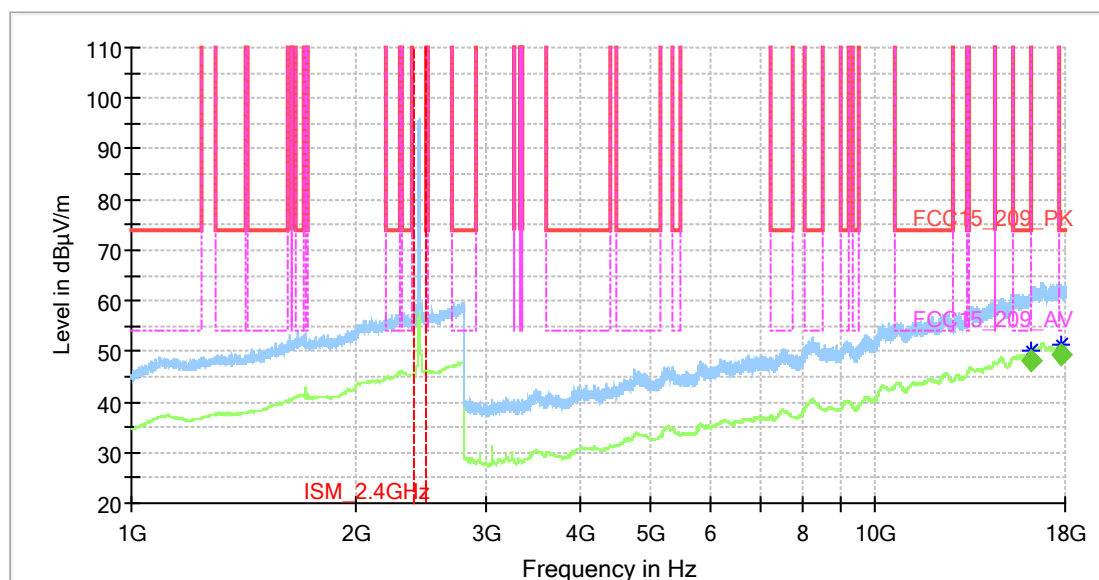
4.03b_WLAN_n mode_MCS6_Ch6_laying

Common Information

Test Description:	Radiated field strength emission 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, WLAN n mode Ch6
Operator Name:	MBe
Comment:	laying

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 VDC



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)
16199.130000	---	48.28	54.00	5.72	100.0
17756.350000	---	49.25	54.00	4.75	100.0

(continuation of the "Final_Result" table from column 15 ...)

Frequency (MHz)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
16199.130000	1000.000	155.0	H	180.0	0.0	24.8
17756.350000	1000.000	155.0	H	310.0	0.0	25.8

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

Diagram No.: 4.01c_WLAN_b mode_2Mbps_Ch1

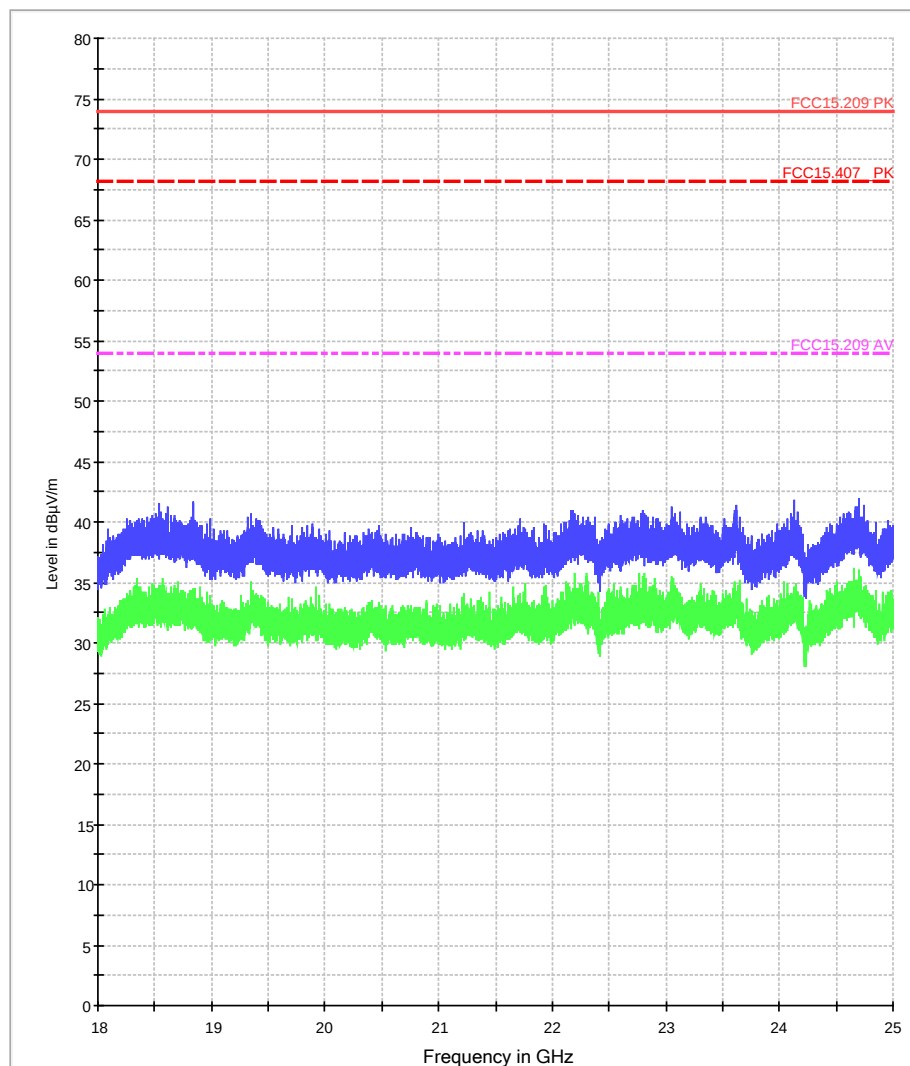
Common Information

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
Comment:	b-mode_2MBit_CH1

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

FCC_Sweep_15.247_18_25GHz_Pre



4.02c_WLAN_g mode_12Mbps_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
Comment:	g-mode_12MBit_CH11

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
	FCC_Sweep_15.247_18_25GHz_Pre

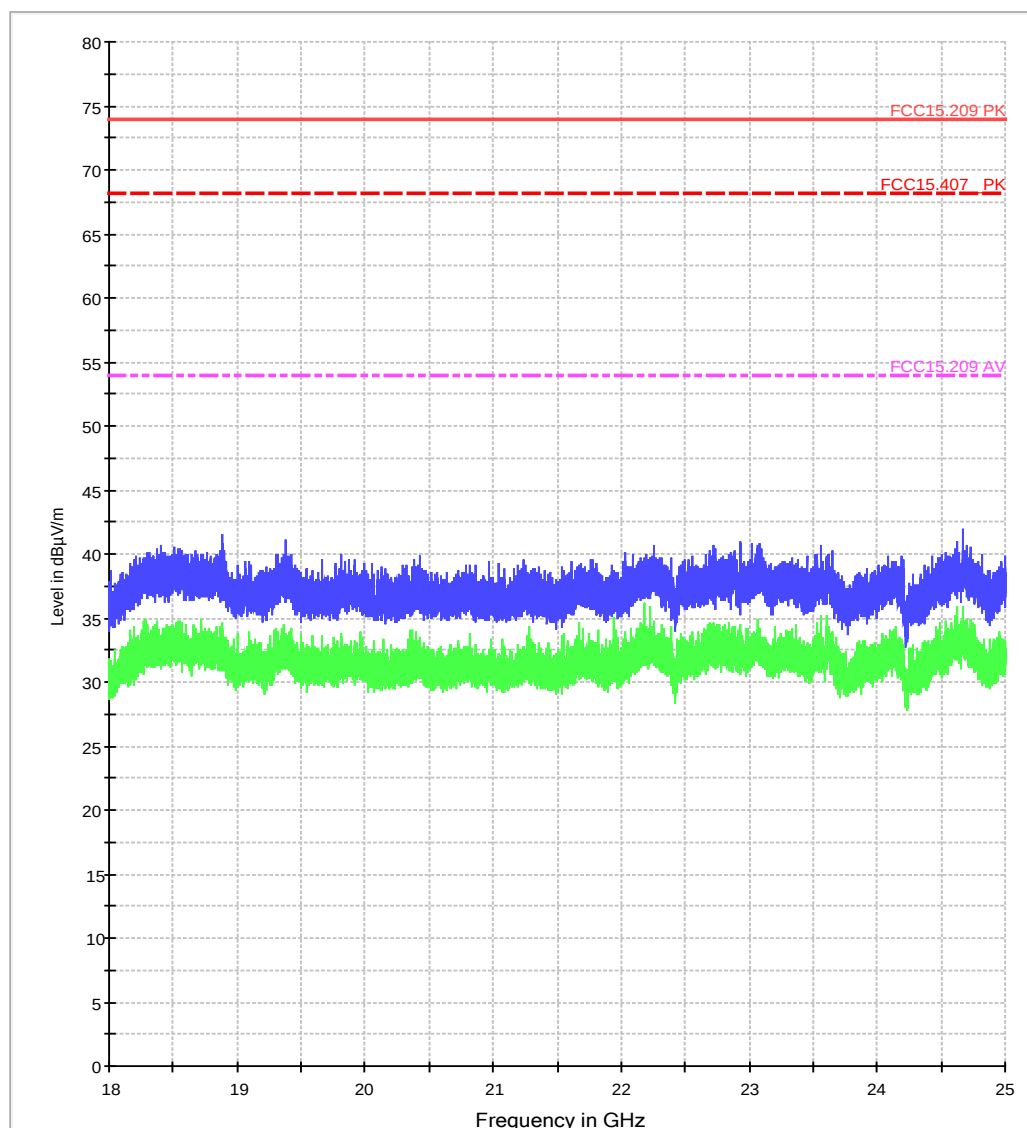


Diagram No.: 4.03c_WLAN_n mode_MCS6_Ch6

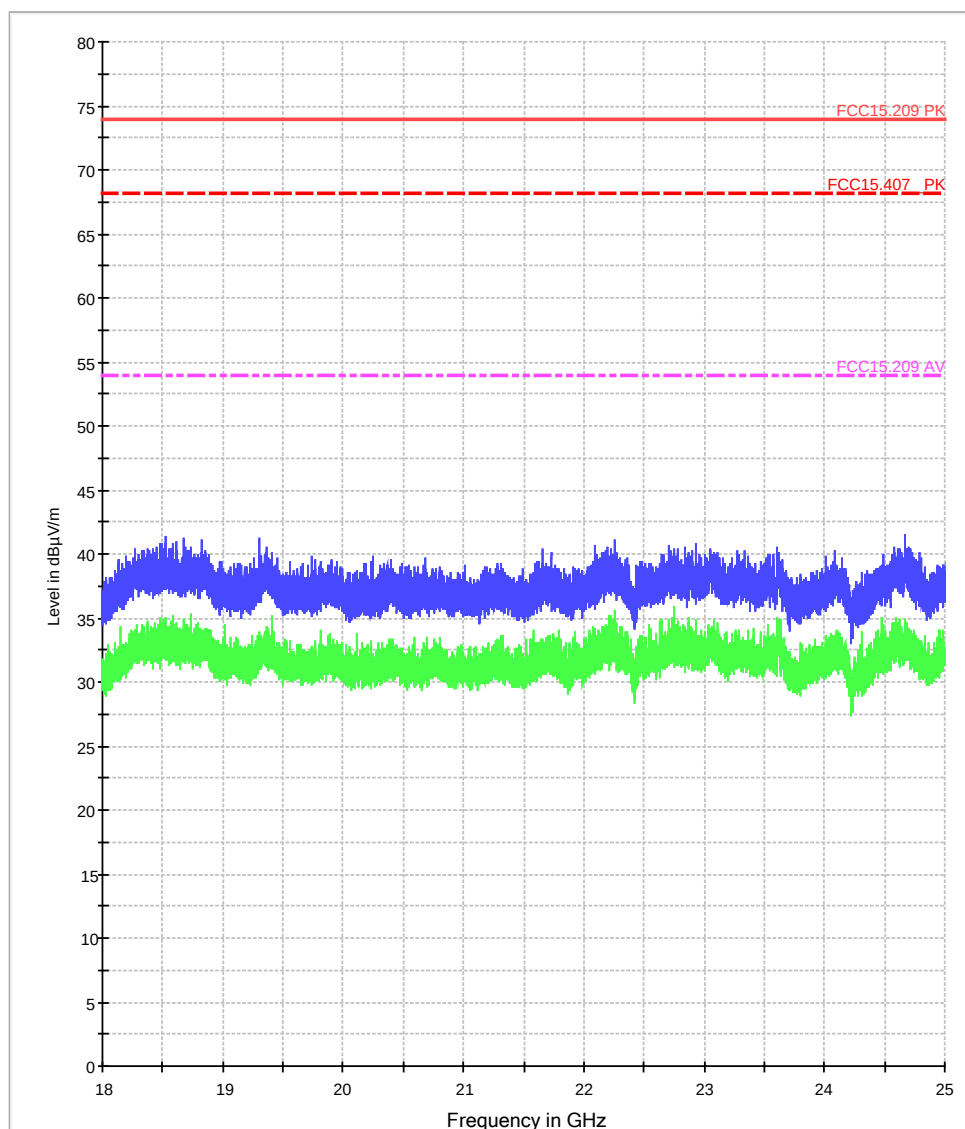
Common Information

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
Comment:	n-mode_MCS6_CH6

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

FCC_Sweep_15.247_18_25GHz_Pre



3. Radiated Band-Edge Measurements

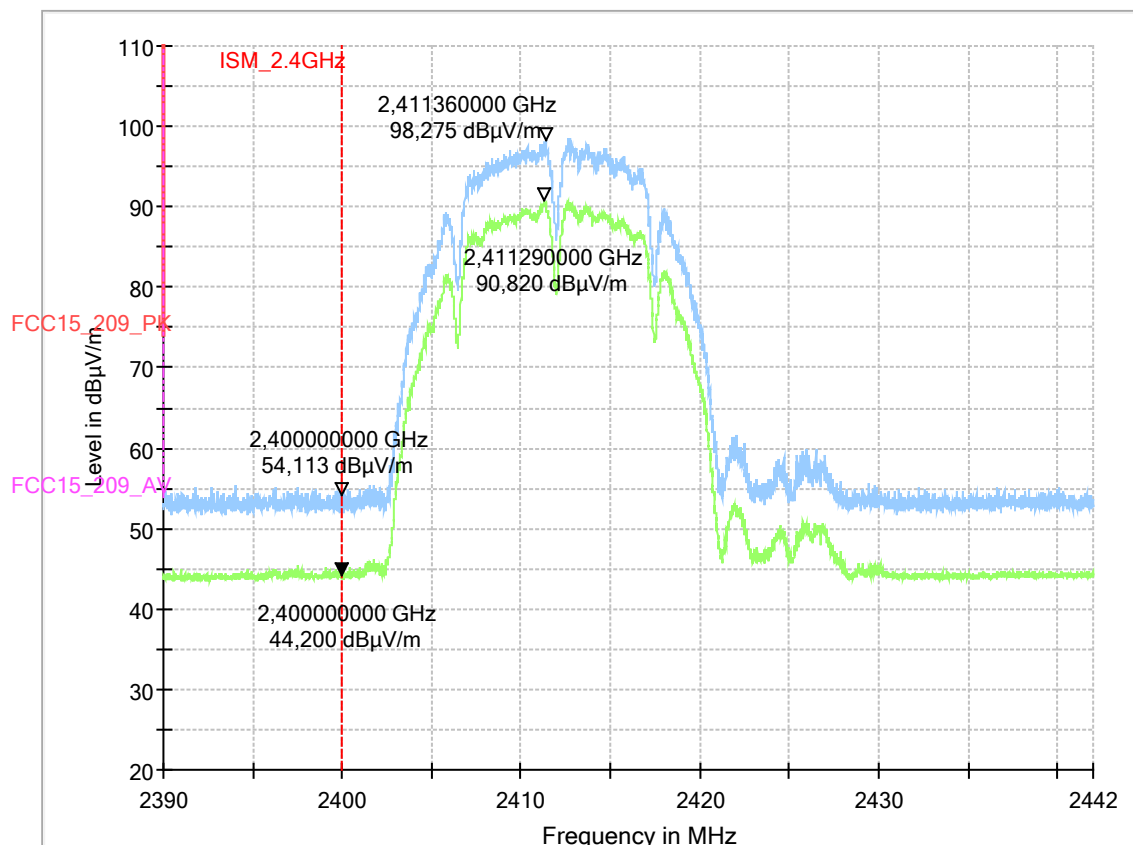
3.1. b SISO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge) 9.01a_BE_WLAN_b mode_2Mbps_Ch1_standing

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, WLAN b mode Ch1
Operator Name:	RI's
Comment:	standing

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 VDC



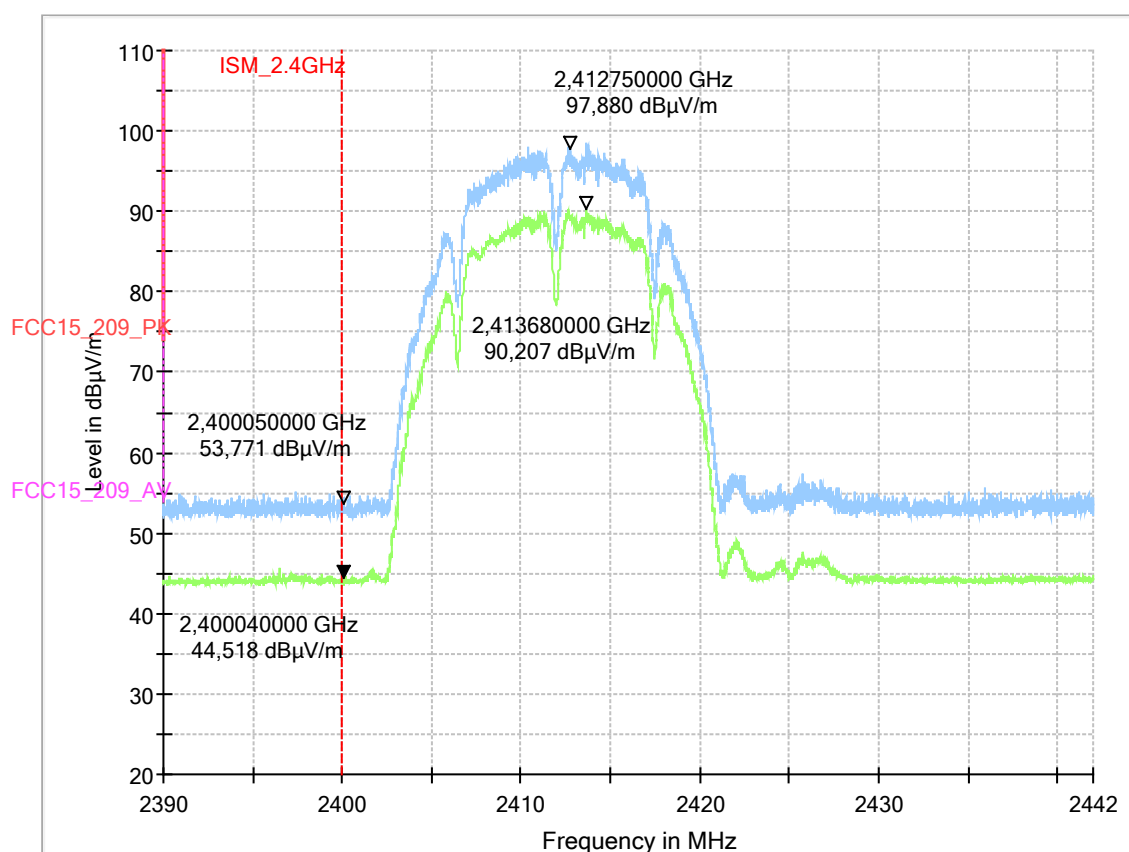
9.01b_BE_WLAN_b mode_2Mbps_Ch1_laying

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, WLAN b mode Ch1
Operator Name:	MBe
Comment:	Channel no1. low

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 VDC



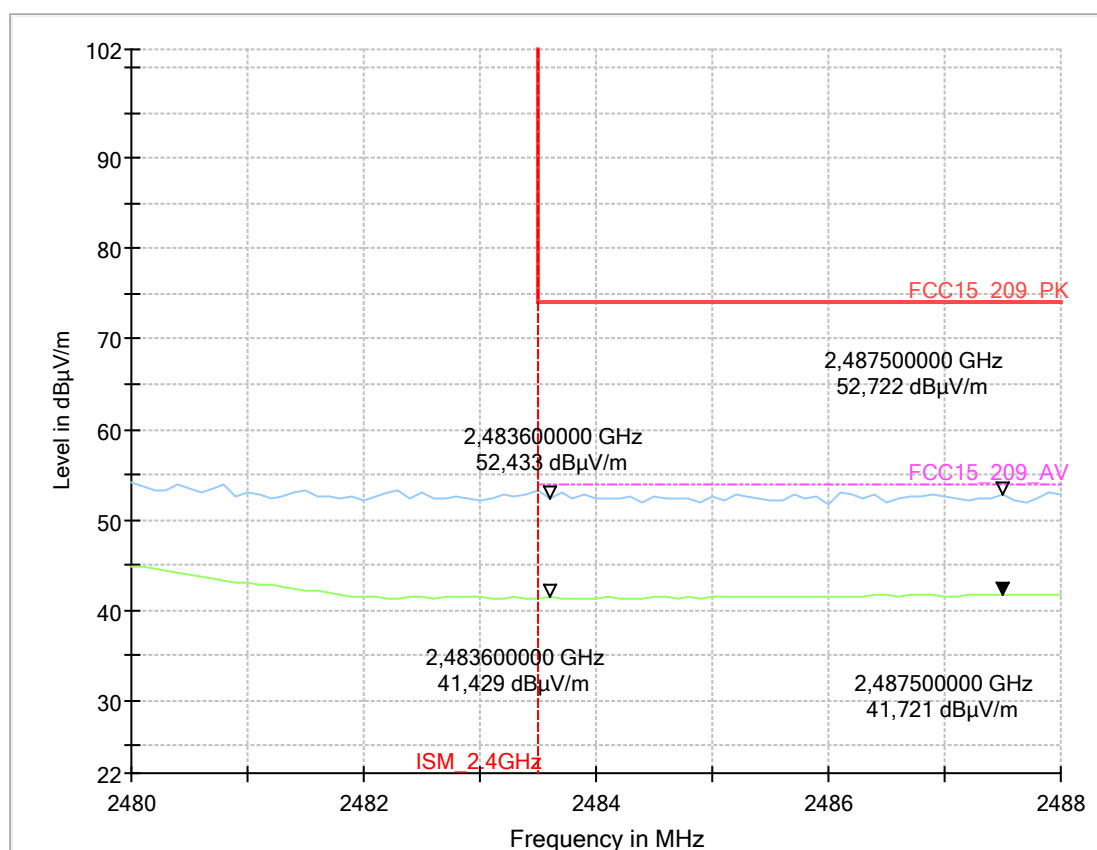
3.2. b SISO Mode-High Channel 2462 MHz (2.4 GHz ISM: right band edge) 9.02a_BE_WLAN_b mode_2Mbps_Ch11_standing

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, BE_WLAN_b mode_2Mbps_Ch11_laying
Operator Name:	RIs
Comment:	standing

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 VDC



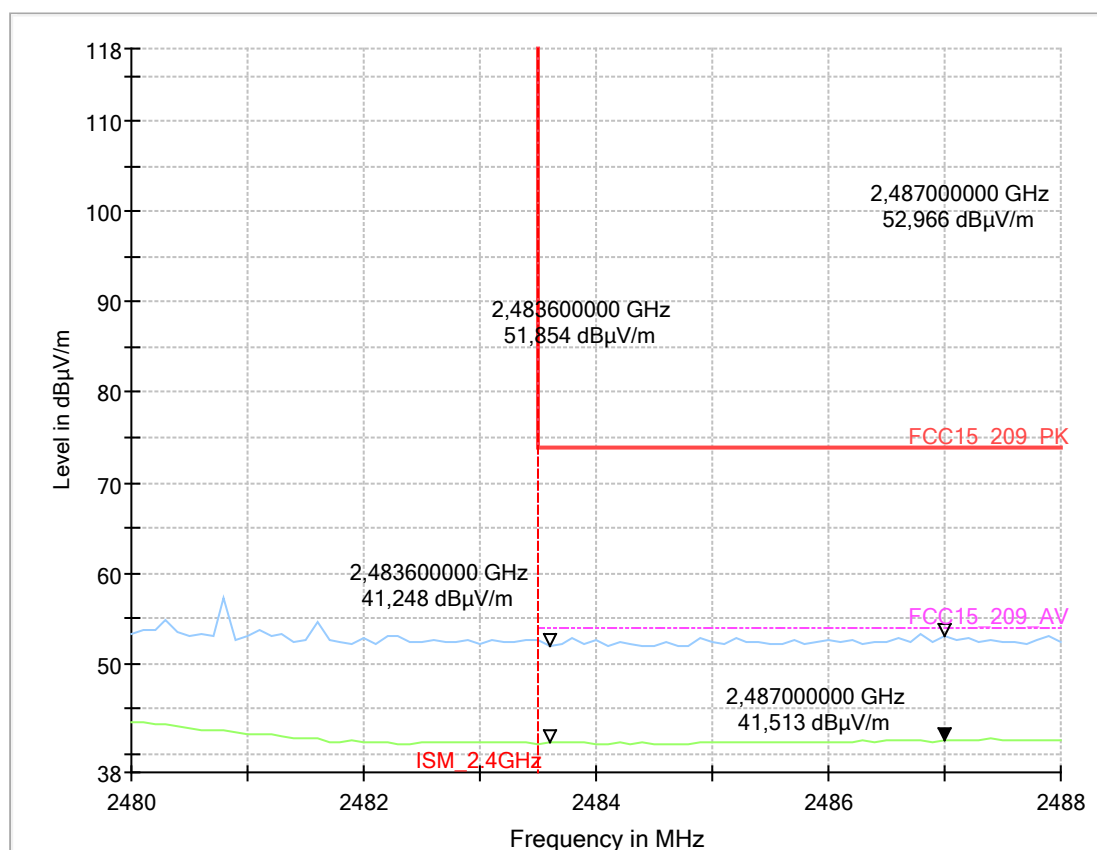
9.02b_BE_WLAN_b mode_2Mbps_Ch11_laying

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, BE_WLAN_b mode_2Mbps_Ch11_laying
Operator Name:	MBe
Comment:	Channel no. high

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 VDC



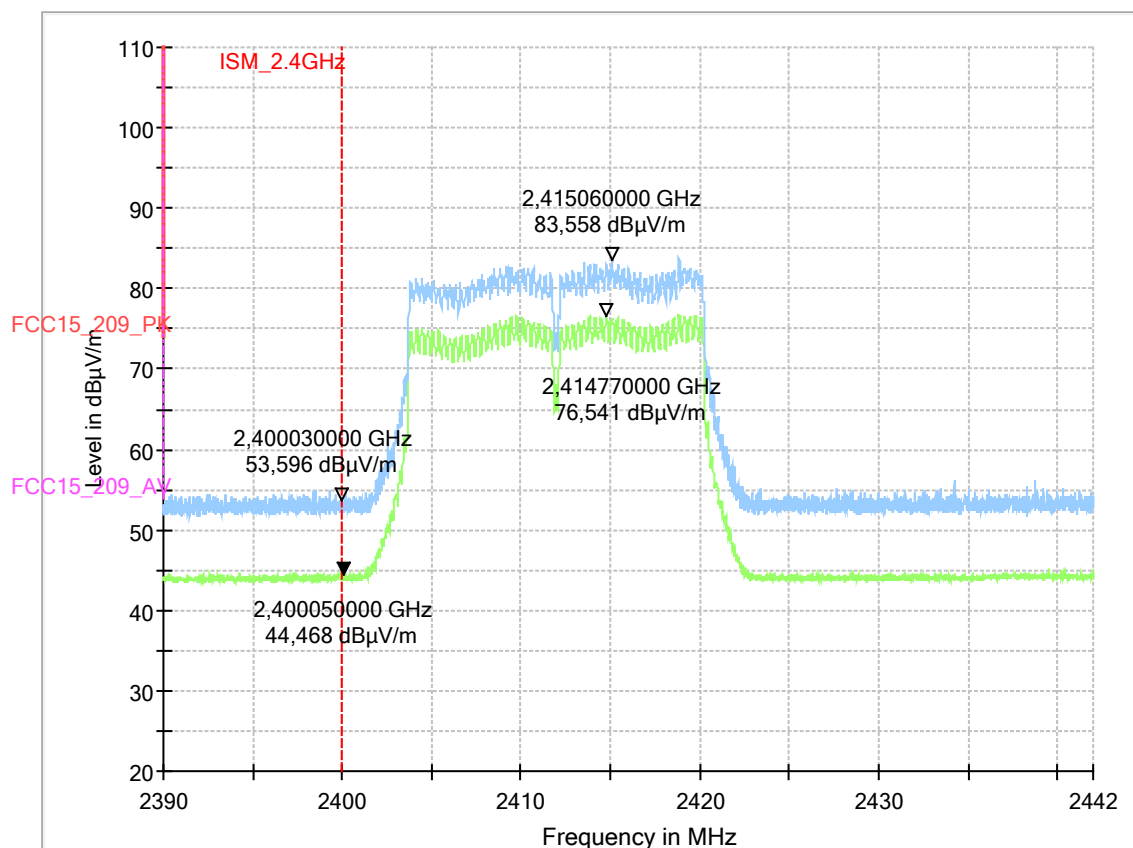
3.3. g SISO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge) 9.03a_BE_WLAN_g mode_12Mbps_Ch1_standing

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, WLAN g mode Ch1
Operator Name:	RIs
Comment:	standing

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 VDC



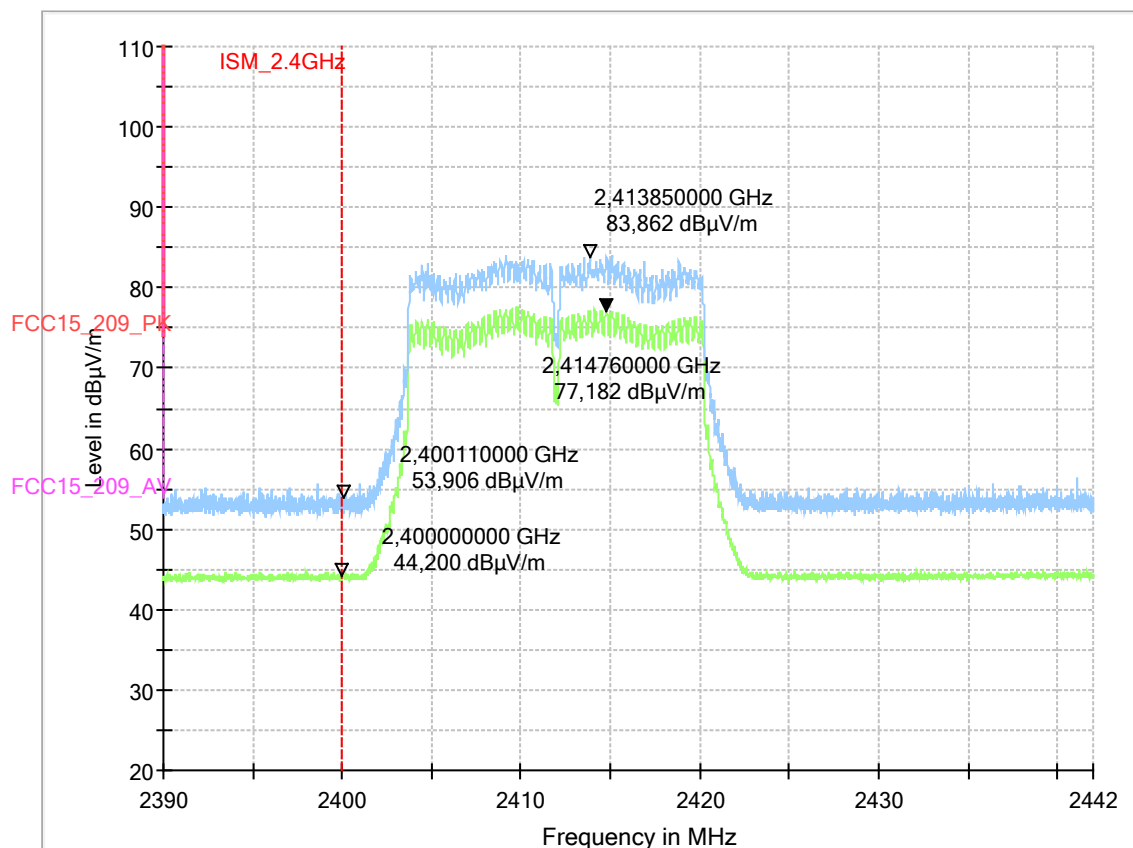
9.03b_BE_WLAN_g mode_12Mbps_Ch1_laying

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, WLAN g mode Ch1
Operator Name:	MBe
Comment:	Channel no1. low

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 VDC



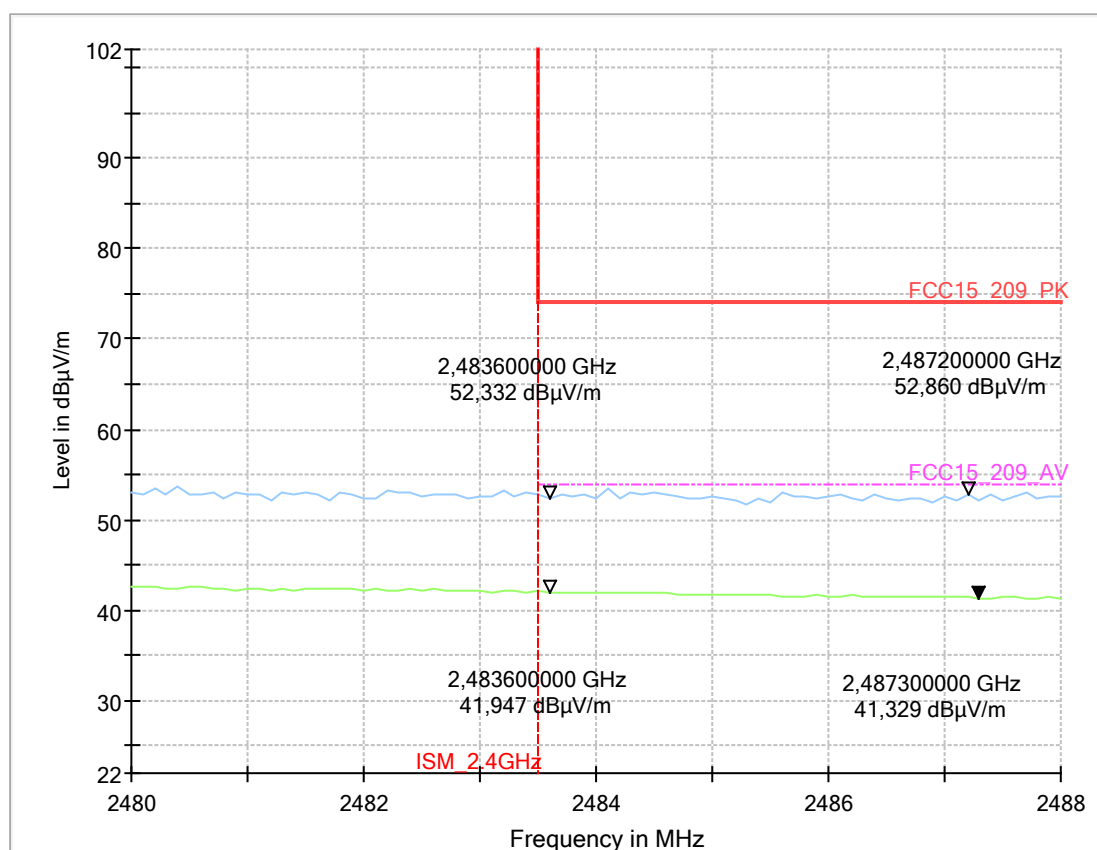
3.4. g SISO Mode-High Channel 2462 MHz (2.4 GHz ISM: right band edge) 9.04a_BE_WLAN _g mode_12Mbps_Ch11_standing

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, BE_WLAN _g mode_12Mbps_Ch11
Operator Name:	RIs
Comment:	standing

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 VDC



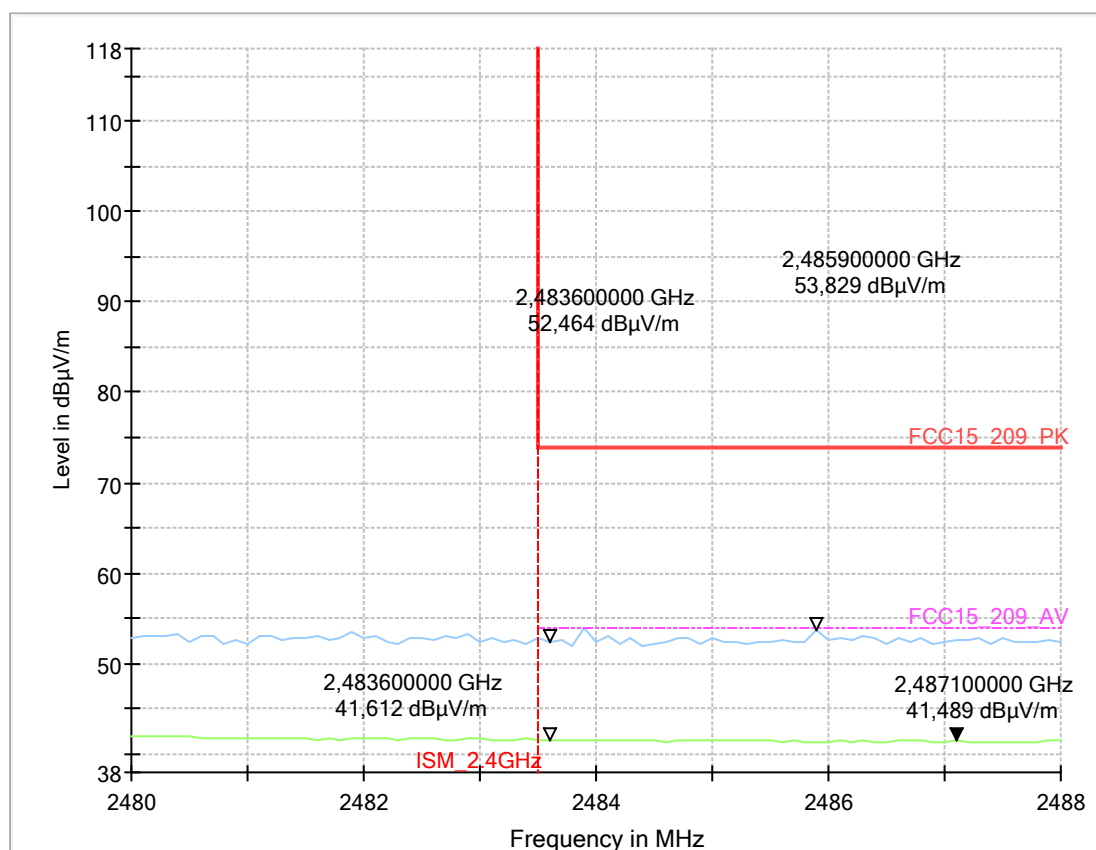
9.04b_BE_WLAN _g mode_12Mbps_Ch11_laying

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, BE_WLAN _g mode_12Mbps_Ch11_laying
Operator Name:	MBe
Comment:	Channel no. high

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 VDC



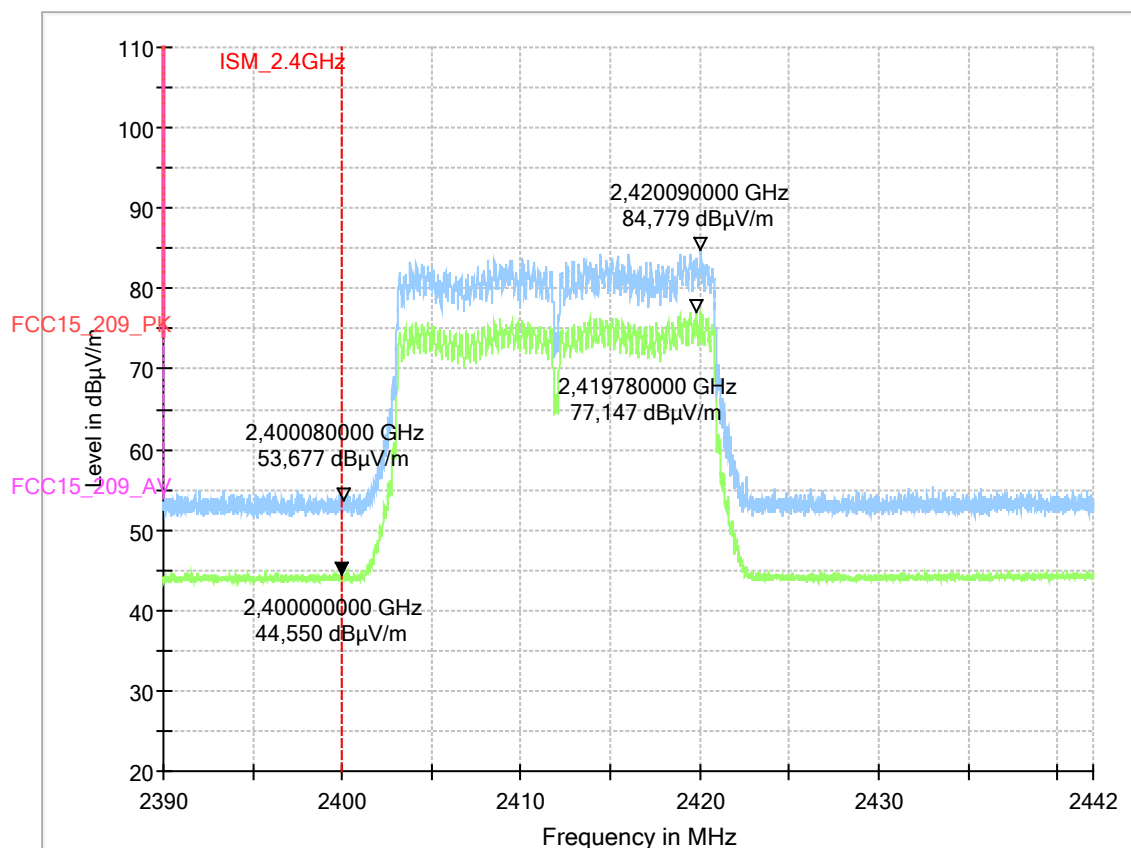
3.5. n SISO Mode-Low Channel 2412 MHz (2.4 GHz ISM: left band edge) 9.05a_BE_WLAN _n mode_MCS6_Ch1_standing

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, WLAN n mode Ch1
Operator Name:	RI's
Comment:	standing

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 VDC



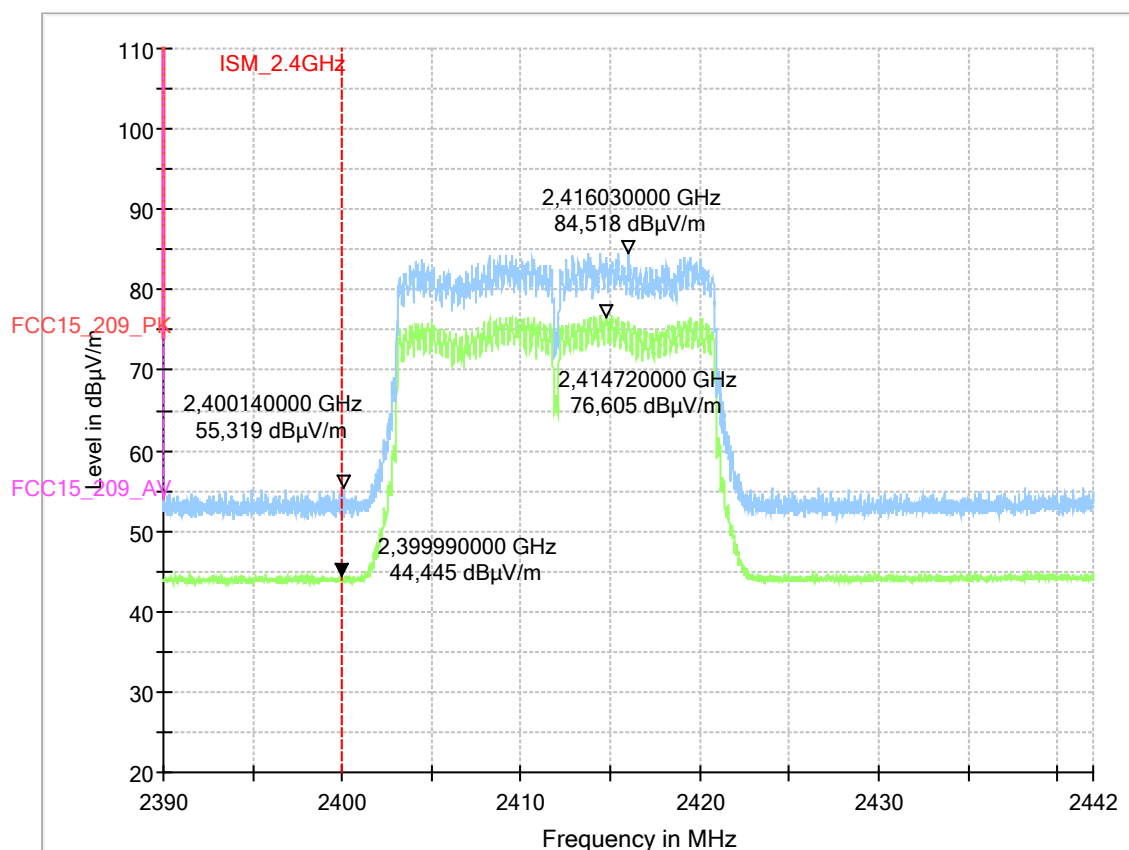
9.05b_BE_WLAN_n mode_MCS6_Ch1_laying

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, WLAN n mode Ch1
Operator Name:	MBe
Comment:	Channel no1. low

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 VDC



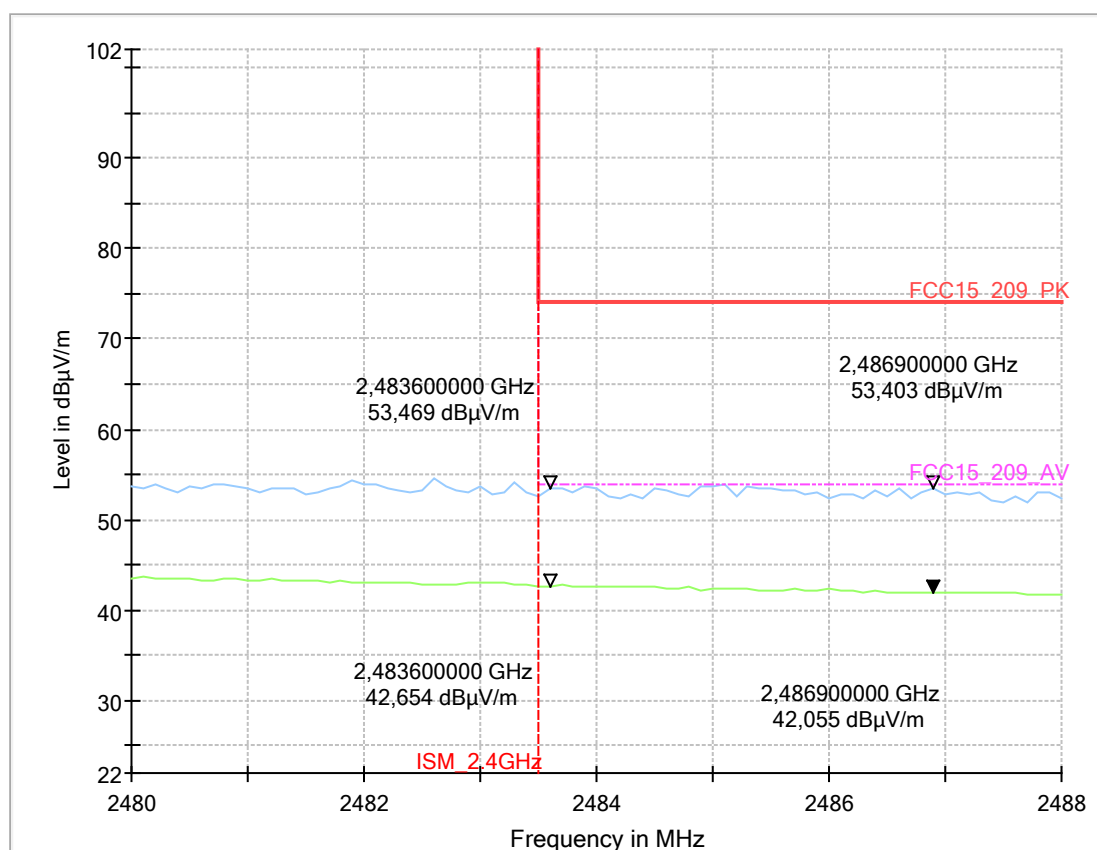
3.6. n SISO Mode-High Channel 2462 MHz (2.4 GHz ISM: right band edge) 9.06a_BE_WLAN _n mode_MCS6_Ch11_standing

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, BE_WLAN _n mode_MCS6_Ch11
Operator Name:	RIs
Comment:	standing

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 VDC



9.06b_BE_WLAN _n mode_MCS6_Ch11_laying

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, BE_WLAN _n mode_MCS6_Ch11_laying
Operator Name:	MBe
Comment:	Channel no. high

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 VDC

