

Annex 1: Measurement diagrams to Test Report 19-1-0055004T02a-A1

Number of pages:	61	Date of Report:	2020-Aug-06
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Test Object / Tested Device(s):	Wireless sensor part, Wireless Seat Belt Reminder - car unit		
FCC ID:	2AVXWWSBRC001	IC:	25953-WSBRC001
Testing has been carried out in accordance with:	Title 47 CFR, Chapter I FCC Regulations, Subchapter A Subpart C: §15.247 (DTS) , RSS-247, Issue 2 (DTS) RSS-Gen., Issue 5 Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".		

1 Measurement diagrams of conducted tests

RF output power

Mode	DUT Frequency	Gated RMS	Limit Max (dBm)	Gated EIRP	DutyCycle (%)	Result
GFSK 1Mbps PWR 10	2402.0000	-10.2	30.0	-10.2	100.000	PASS
GFSK 1Mbps PWR 10	2440.0000	-10.4	30.0	-10.4	100.000	PASS
GFSK 1Mbps PWR 10	2480.0000	-10.4	30.0	-10.4	100.000	PASS

Minimum Emission Bandwidth 6 dB

Mode	DUT Frequency	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left	Band Edge Right
GFSK 1Mbps PWR 10	2402.0000	0.752476	0.500000	---	2401.6039	2402.3564
GFSK 1Mbps PWR 10	2440.0000	0.752476	0.500000	---	2439.6039	2440.3564
GFSK 1Mbps PWR 10	2480.0000	0.752476	0.500000	---	2479.6039	2480.3564

Peak output power (Sweep)

Mode	DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
GFSK 1Mbps PWR 10	2402.000000	-10.2	30.0	PASS
GFSK 1Mbps PWR 10	2440.000000	-10.6	30.0	PASS
GFSK 1Mbps PWR 10	2480.000000	-10.5	30.0	PASS

Power Spectral Density

Mode	DUT Frequency	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
GFSK 1Mbps PWR 10	2402.000000	2402.237500	-12.684	8.0	PASS
GFSK 1Mbps PWR 10	2440.000000	2440.237500	-11.119	8.0	PASS
GFSK 1Mbps PWR 10	2480.000000	2480.237500	-12.065	8.0	PASS

Peak Power Spectral Density

Mode	DUT Frequency	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
GFSK 1Mbps PWR 10	2402.000000	2402.237500	-10.310	8.0	PASS
GFSK 1Mbps PWR 10	2440.000000	2440.237500	-10.755	8.0	PASS
GFSK 1Mbps PWR 10	2480.000000	2479.737500	-10.682	8.0	PASS

Occupied Channel Bandwidth 99%

Mode	DUT Frequency	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left	Band Edge Right
GFSK 1Mbps PWR 10	2402.0000	0.660000	---	---	2401.6550	2402.3150
GFSK 1Mbps PWR 10	2440.0000	0.660000	---	---	2439.6550	2440.3150
GFSK 1Mbps PWR 10	2480.0000	0.660000	---	---	2479.6550	2480.3150

Tx Spurious Emission

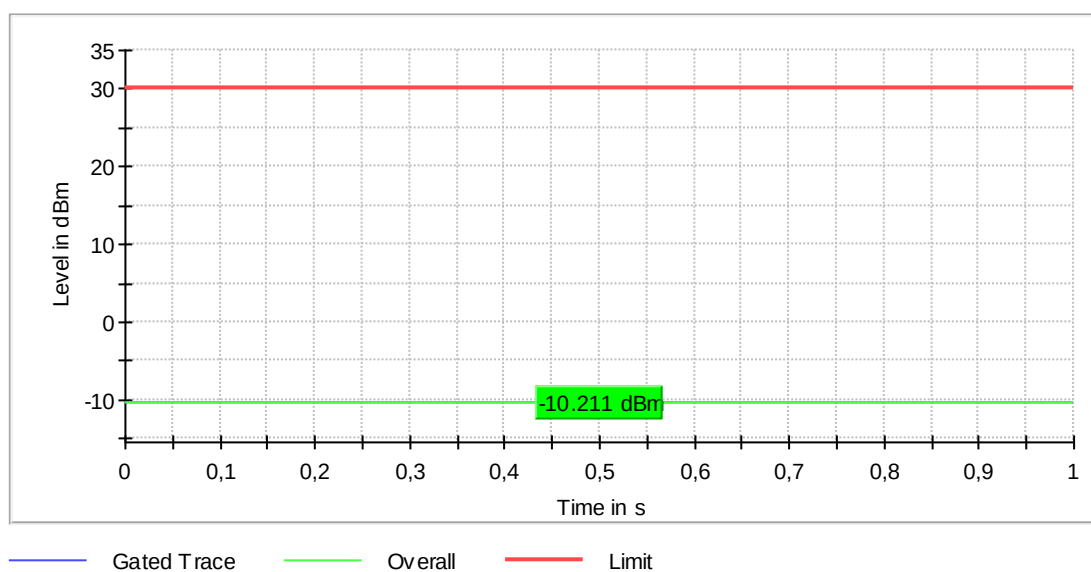
Mode	DUT Frequency (MHz)	Result
GFSK 1Mbps PWR 10	2402.000000	PASS
GFSK 1Mbps PWR 10	2440.000000	PASS
GFSK 1Mbps PWR 10	2480.000000	PASS

RF output power (2402 MHz; Setting 10 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2402.000000	-10.2	30.0	-10.2	100.000	PASS



OSP PowerMeter settings

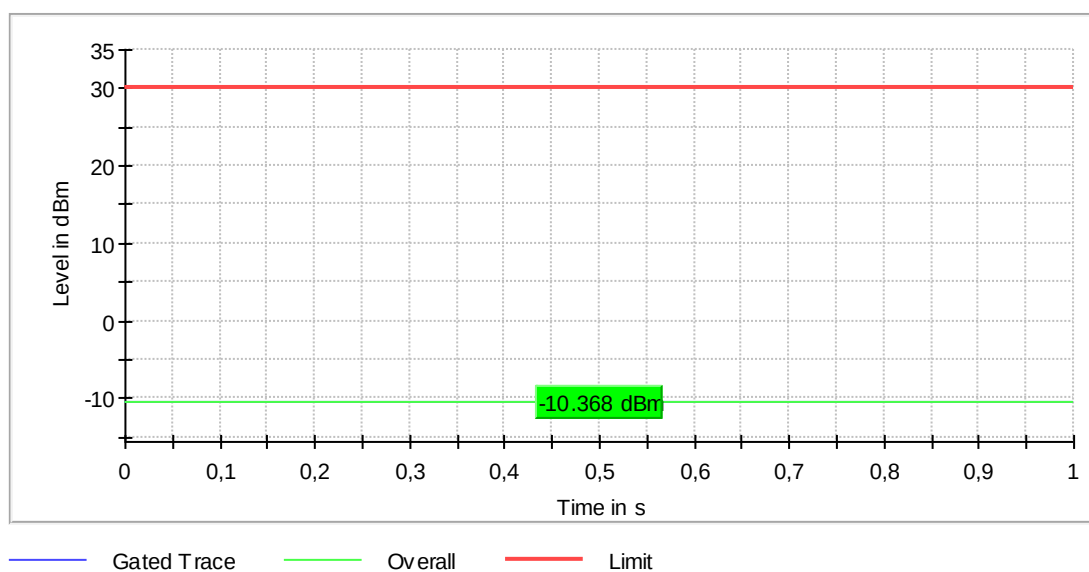
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

RF output power (2440 MHz; Setting 10 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2440.000000	-10.4	30.0	-10.4	100.000	PASS



OSP PowerMeter settings

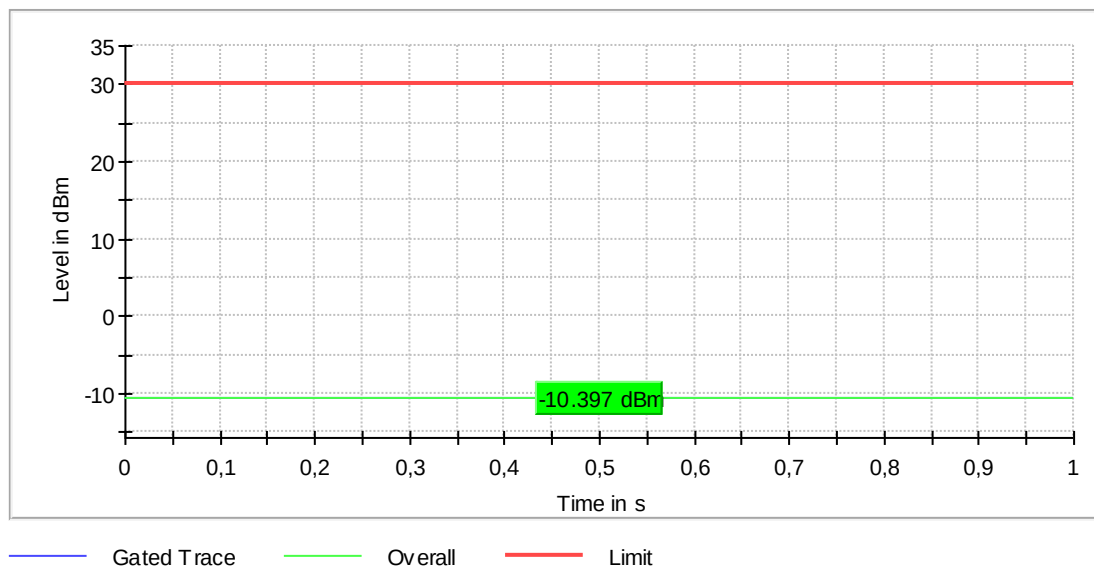
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

RF output power (2480 MHz; Setting 10 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2480.000000	-10.4	30.0	-10.4	100.000	PASS



OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

Minimum Emission Bandwidth 6 dB (2402 MHz; Setting 10 dBm; 2 MHz)

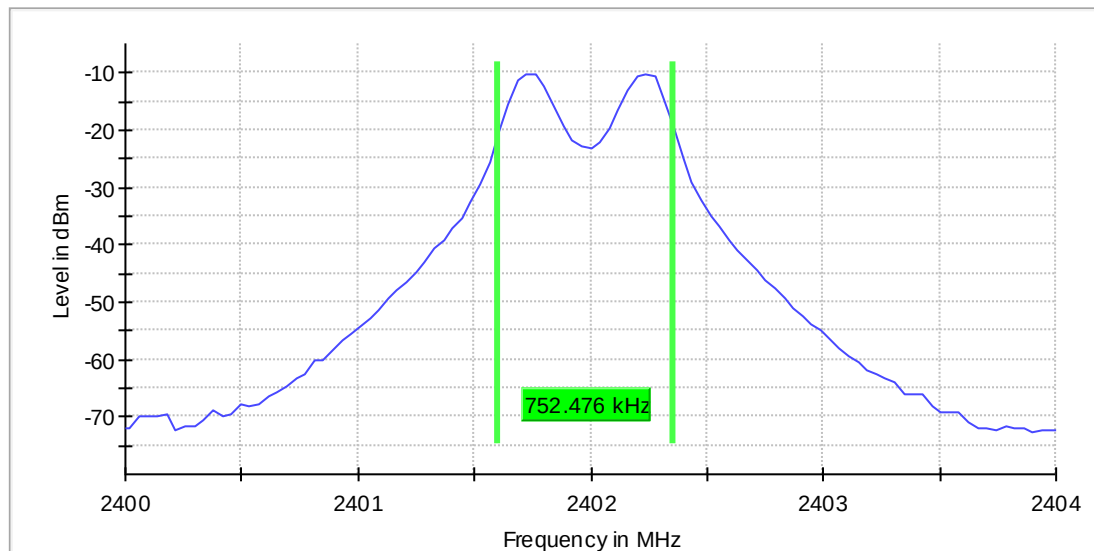
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.752476	0.500000	---	2401.603960	2402.356436

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-10.2	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
SweepTime	1.000 ms	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 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	7 / max. 150	max. 150
Stable	5 / 5	5

Max Stable Difference	0.00 dB	0.50 dB
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Minimum Emission Bandwidth 6 dB (2440 MHz; Setting 10 dBm; 2 MHz)

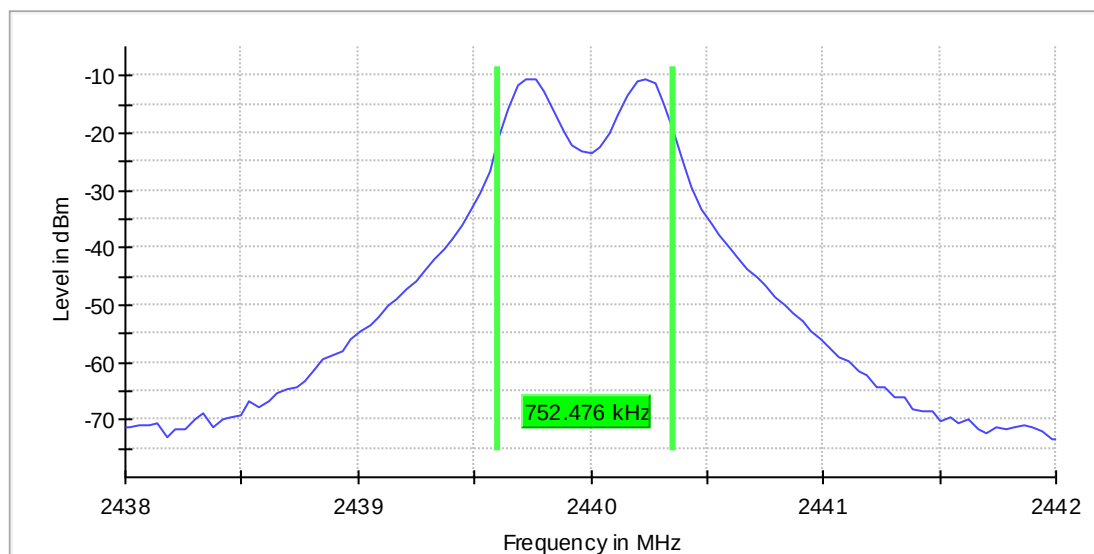
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	0.752476	0.500000	---	2439.603960	2440.356436

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	-10.6	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
SweepTime	1.000 ms	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 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	6 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.15 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2480 MHz; Setting 10 dBm; 2 MHz)

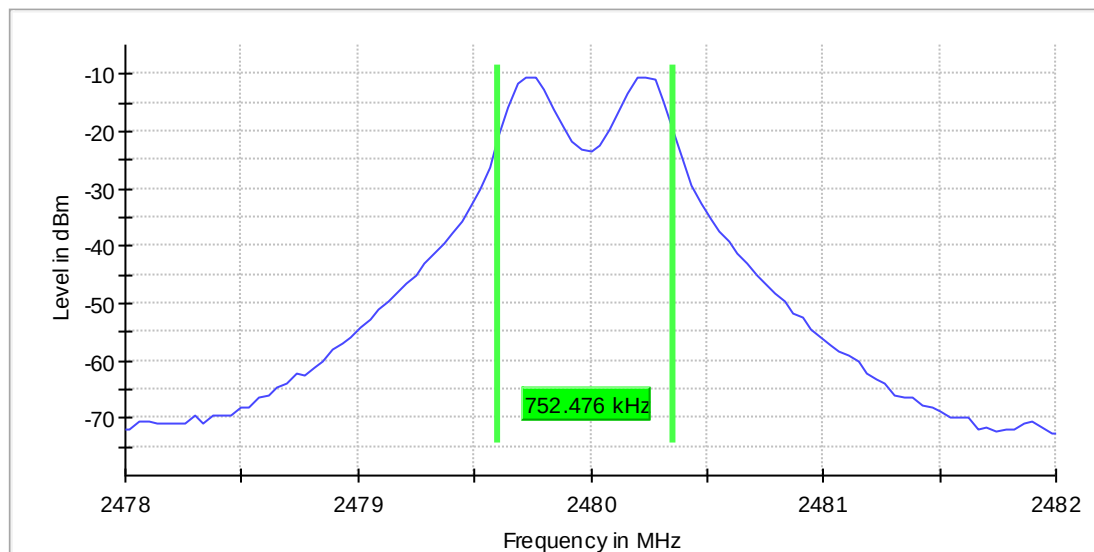
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.752476	0.500000	---	2479.603960	2480.356436

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-10.5	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
SweepTime	1.000 ms	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 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

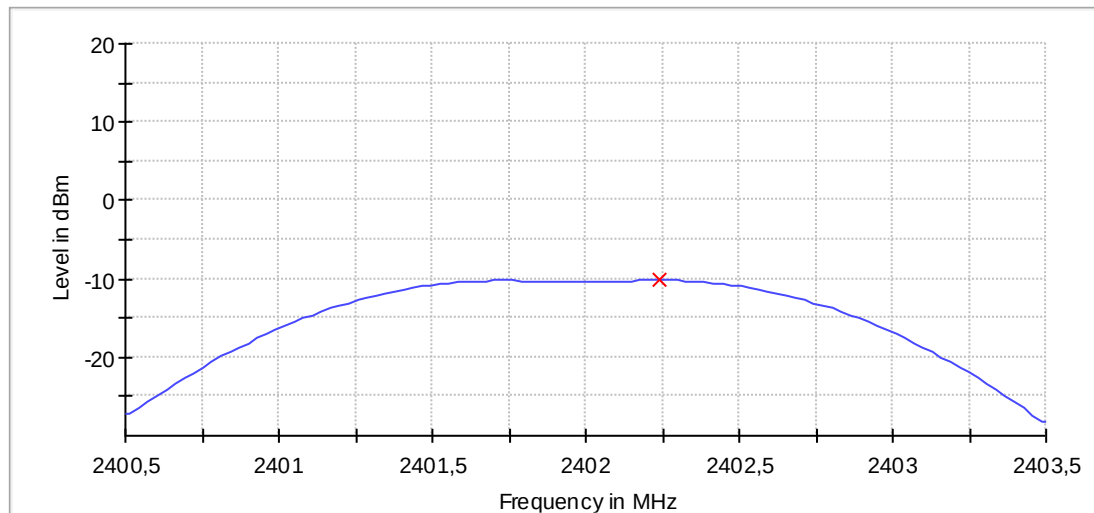
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	6 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.03 dB	0.50 dB

Peak output power (Sweep) (2402 MHz; Setting 10 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2402.000000	-10.2	30.0	PASS



— Connector 1 × Peak Connector 1

Measurement

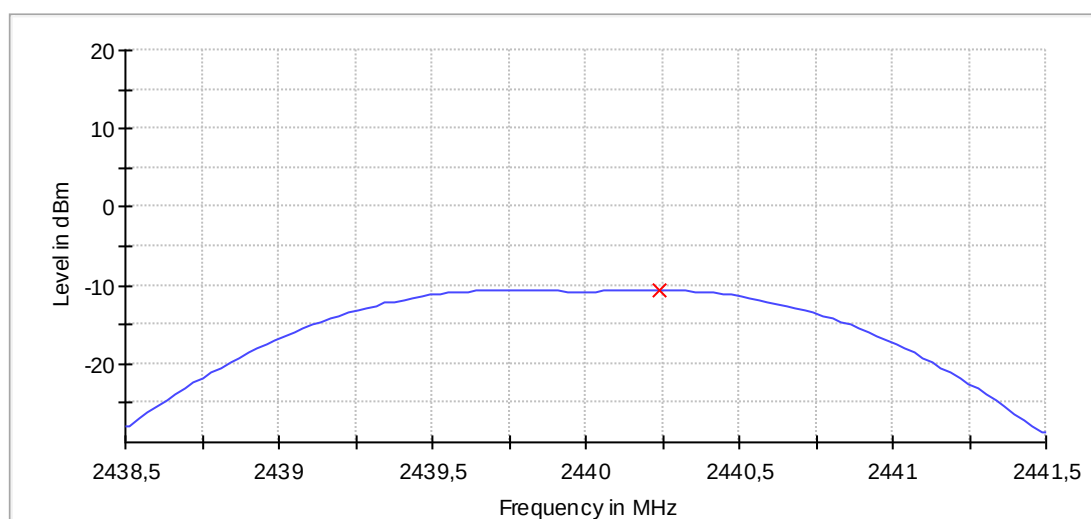
Setting	Instrument Value	Target Value
Start Frequency	2.40050 GHz	2.40050 GHz
Stop Frequency	2.40350 GHz	2.40350 GHz
Span	3.000 MHz	3.000 MHz
RBW	1.000 MHz	>= 752.477 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 101
SweepTime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.05 dB	0.50 dB

Peak output power (Sweep) (2440 MHz; Setting 10 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2440.000000	-10.6	30.0	PASS



— Connector 1 × Peak Connector 1

Measurement

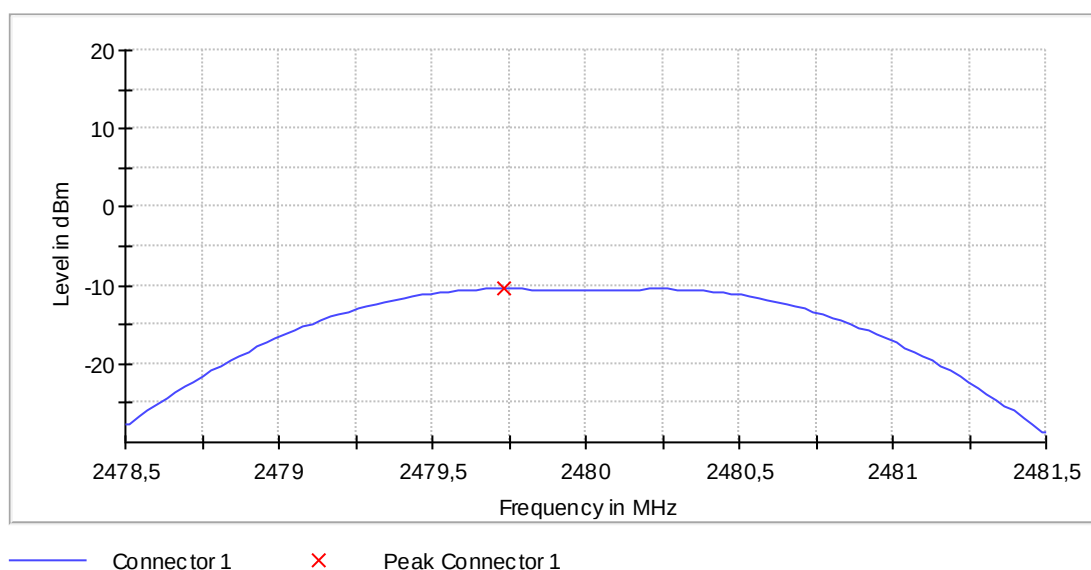
Setting	Instrument Value	Target Value
Start Frequency	2.43850 GHz	2.43850 GHz
Stop Frequency	2.44150 GHz	2.44150 GHz
Span	3.000 MHz	3.000 MHz
RBW	1.000 MHz	>= 752.477 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 101
SweepTime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 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	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.03 dB	0.50 dB

Peak output power (Sweep) (2480 MHz; Setting 10 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2480.000000	-10.5	30.0	PASS



Measurement

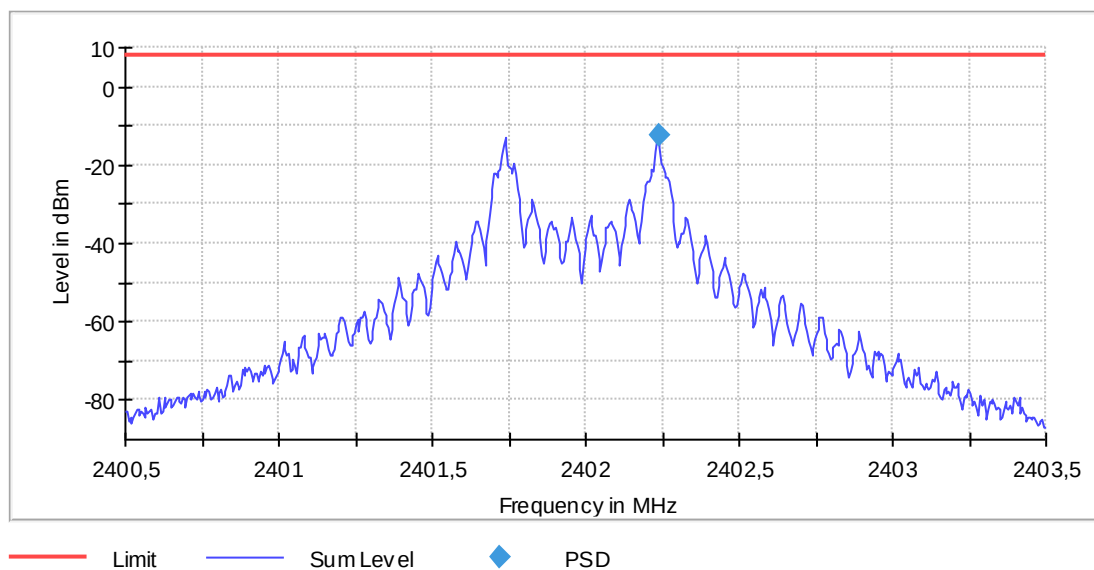
Setting	Instrument Value	Target Value
Start Frequency	2.47850 GHz	2.47850 GHz
Stop Frequency	2.48150 GHz	2.48150 GHz
Span	3.000 MHz	3.000 MHz
RBW	1.000 MHz	≥ 752.477 kHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	101	~ 101
SweepTime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	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	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.02 dB	0.50 dB

Power Spectral Density (2402 MHz; Setting 10 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2402.237500	-12.684	8.0	PASS



Measurement

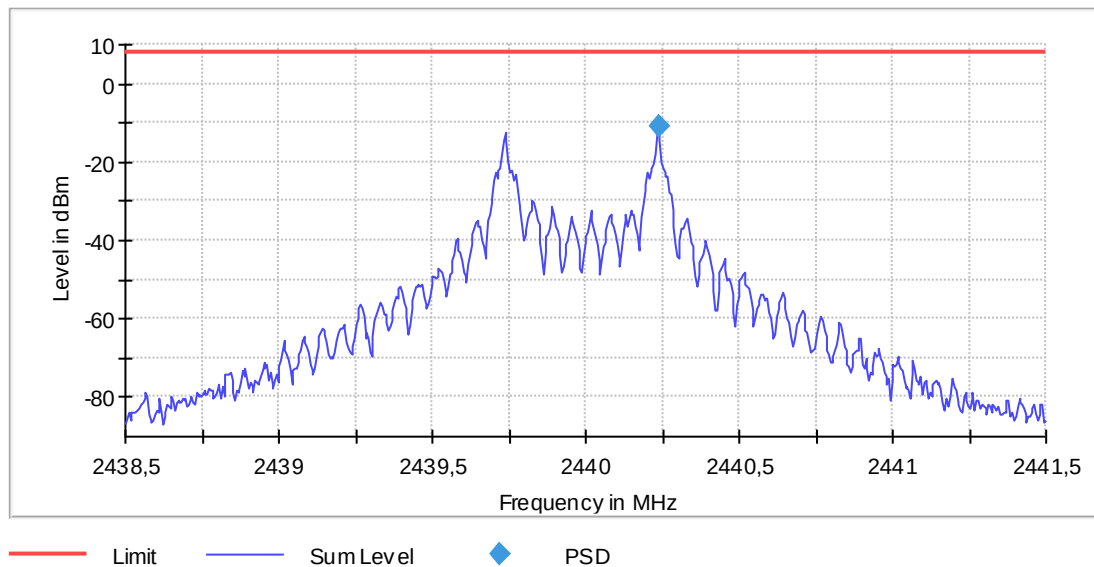
Setting	Instrument Value	Target Value
Start Frequency	2.40050 GHz	2.40050 GHz
Stop Frequency	2.40350 GHz	2.40350 GHz
Span	3.000 MHz	3.000 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	600	~ 600
SweepTime	12.000 ms	12.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	16 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Power Spectral Density (2440 MHz; Setting 10 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2440.237500	-11.119	8.0	PASS



Measurement

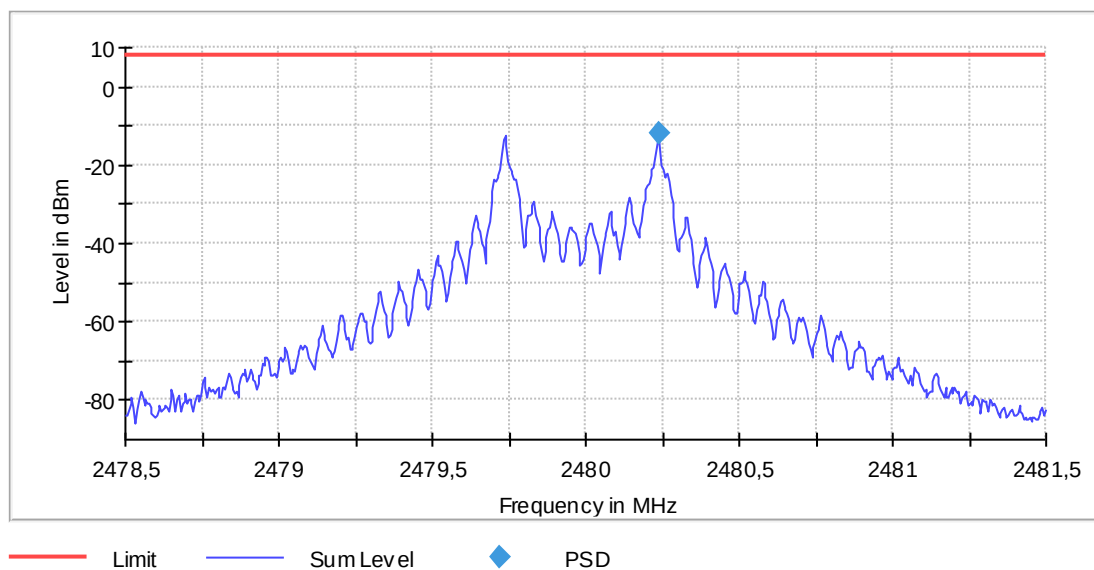
Setting	Instrument Value	Target Value
Start Frequency	2.43850 GHz	2.43850 GHz
Stop Frequency	2.44150 GHz	2.44150 GHz
Span	3.000 MHz	3.000 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	600	~ 600
SweepTime	12.000 ms	12.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Power Spectral Density (2480 MHz; Setting 10 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2480.237500	-12.065	8.0	PASS



Measurement

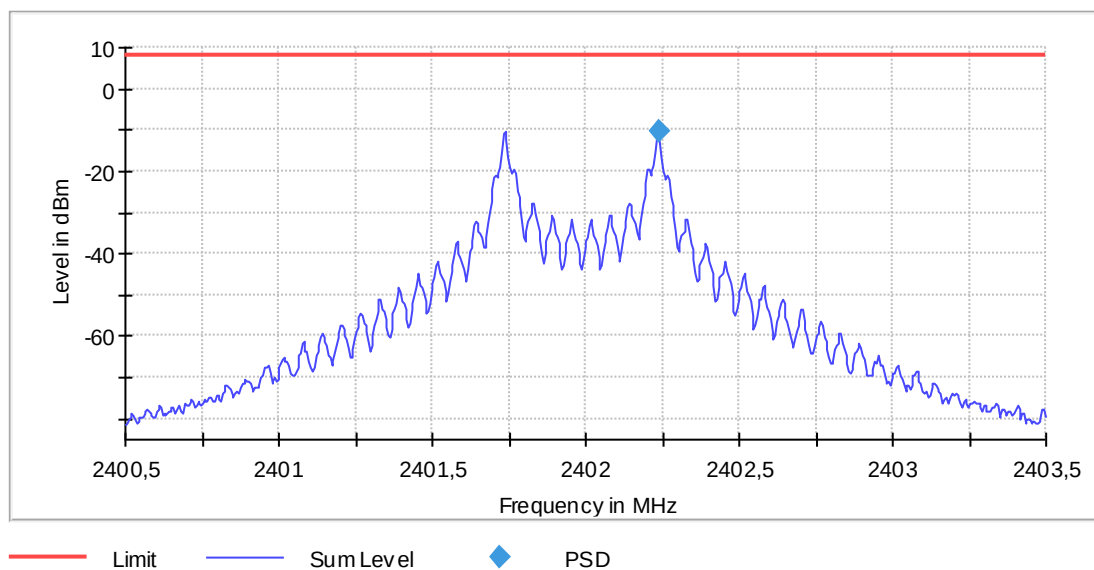
Setting	Instrument Value	Target Value
Start Frequency	2.47850 GHz	2.47850 GHz
Stop Frequency	2.48150 GHz	2.48150 GHz
Span	3.000 MHz	3.000 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	600	~ 600
SweepTime	12.000 ms	12.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	19 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Peak Power Spectral Density (2402 MHz; Setting 10 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2402.237500	-10.310	8.0	PASS



Measurement

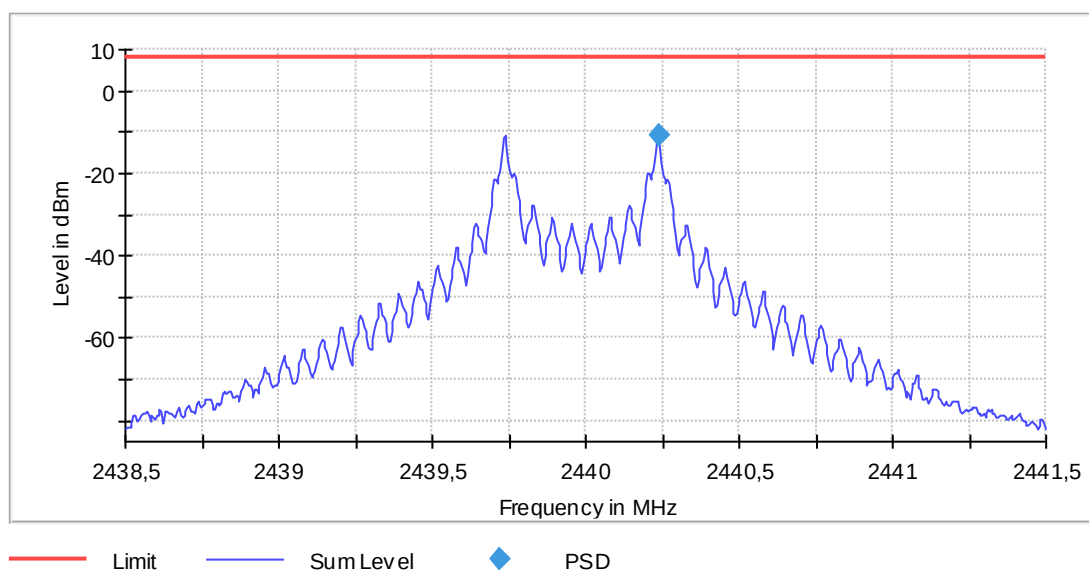
Setting	Instrument Value	Target Value
Start Frequency	2.40050 GHz	2.40050 GHz
Stop Frequency	2.40350 GHz	2.40350 GHz
Span	3.000 MHz	3.000 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	600	~ 600
SweepTime	3.000 ms	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.31 dB	0.50 dB

Peak Power Spectral Density (2440 MHz; Setting 10 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2440.237500	-10.755	8.0	PASS



Measurement

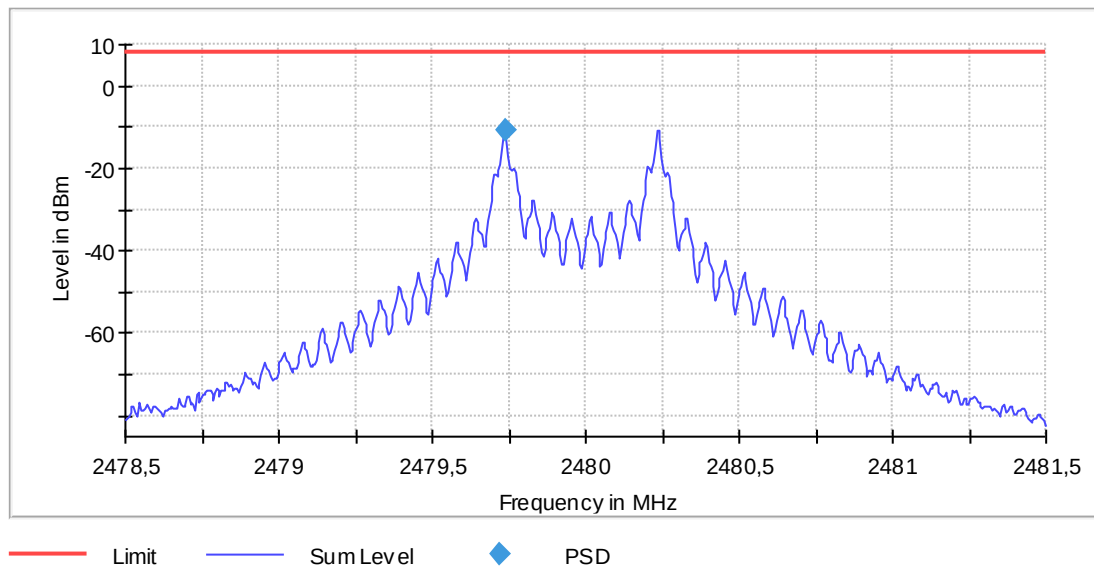
Setting	Instrument Value	Target Value
Start Frequency	2.43850 GHz	2.43850 GHz
Stop Frequency	2.44150 GHz	2.44150 GHz
Span	3.000 MHz	3.000 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	600	~ 600
SweepTime	3.000 ms	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.04 dB	0.50 dB

Peak Power Spectral Density (2480 MHz; Setting 10 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2479.737500	-10.682	8.0	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47850 GHz	2.47850 GHz
Stop Frequency	2.48150 GHz	2.48150 GHz
Span	3.000 MHz	3.000 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	600	~ 600
SweepTime	3.000 ms	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.06 dB	0.50 dB

Occupied Channel Bandwidth 99% (2402 MHz; Setting 10 dBm; 2 MHz)

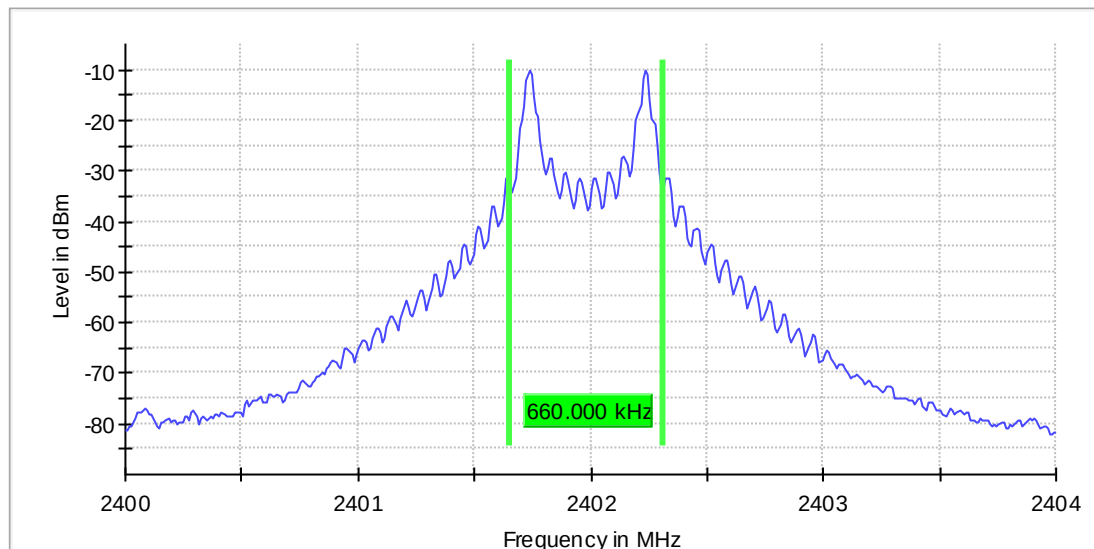
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.660000	---	---	2401.655000	2402.315000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
SweepTime	210.000 μ s	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	6 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.17 dB	0.30 dB

Occupied Channel Bandwidth 99% (2440 MHz; Setting 10 dBm; 2 MHz)

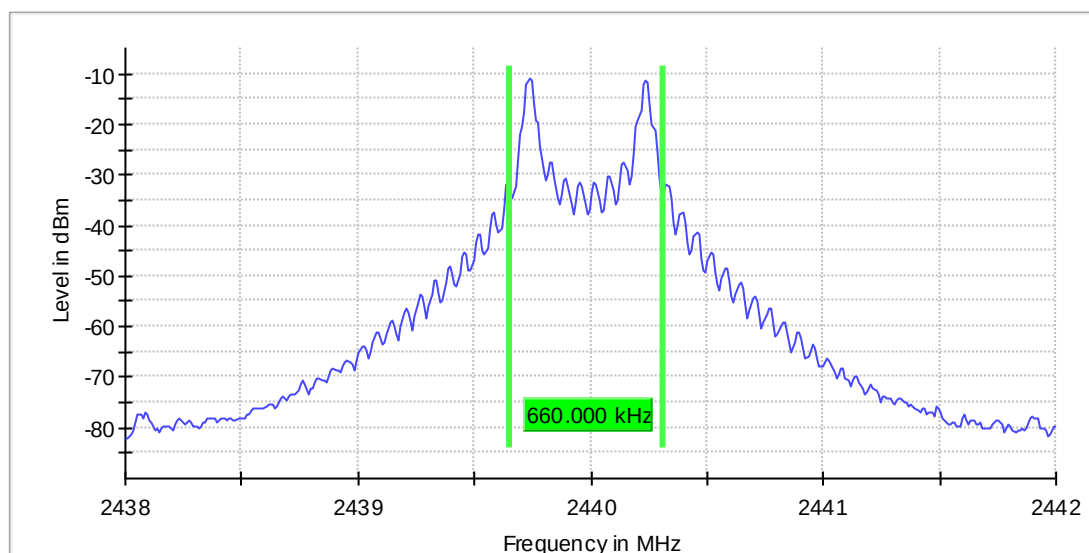
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	0.660000	---	---	2439.655000	2440.315000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
SweepTime	210.000 µs	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	7 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.21 dB	0.30 dB

Occupied Channel Bandwidth 99% (2480 MHz; Setting 10 dBm; 2 MHz)

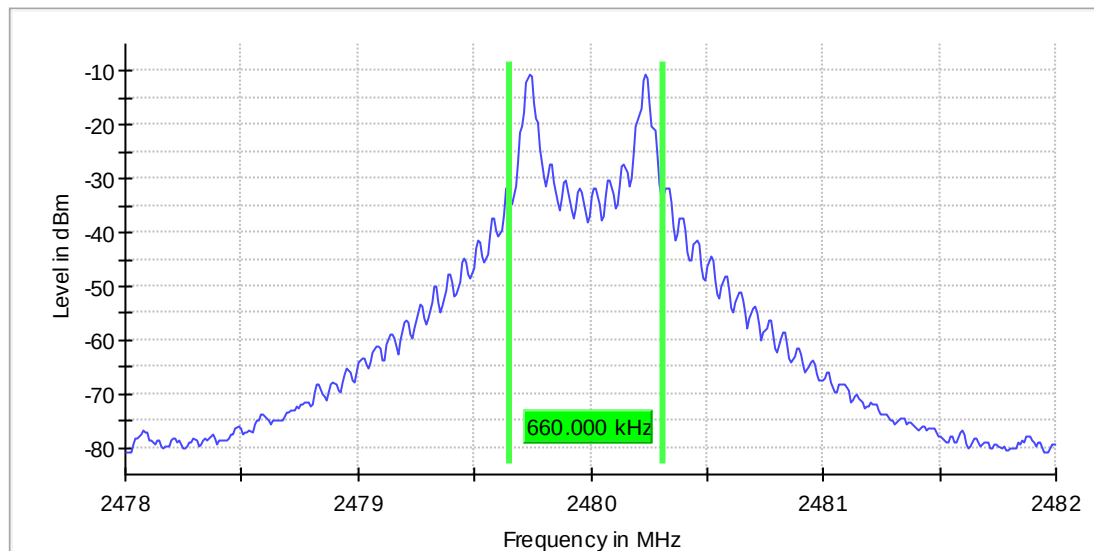
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.660000	---	---	2479.655000	2480.315000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
SweepTime	210.000 μ s	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	7 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.08 dB	0.30 dB

Tx Spurious Emission (2402 MHz; Setting 10 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Final measurements

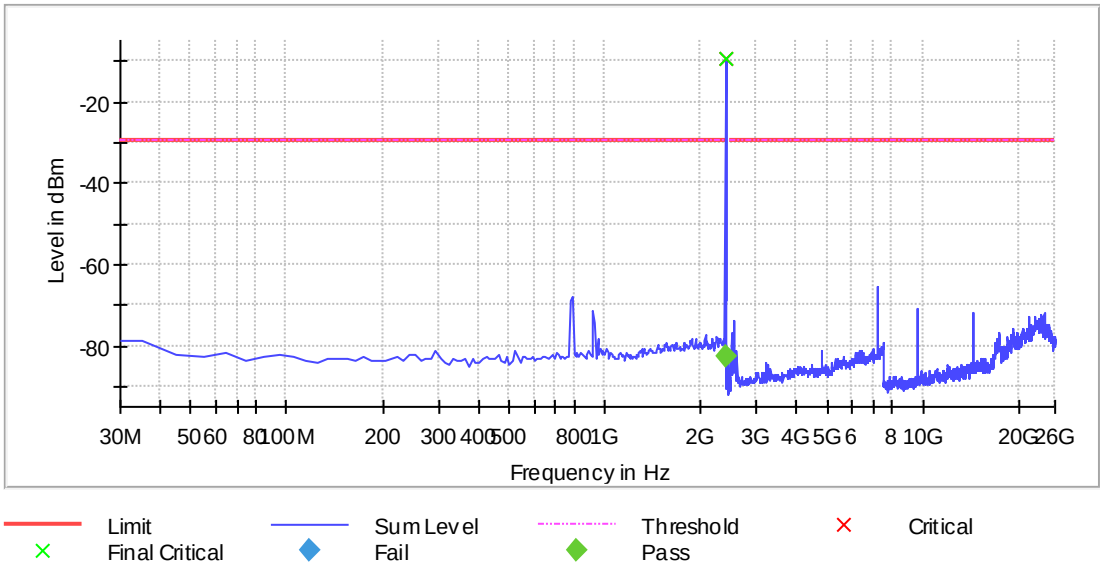
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2399.858913	-10.3	-82.8	-29.5	53.3	PASS

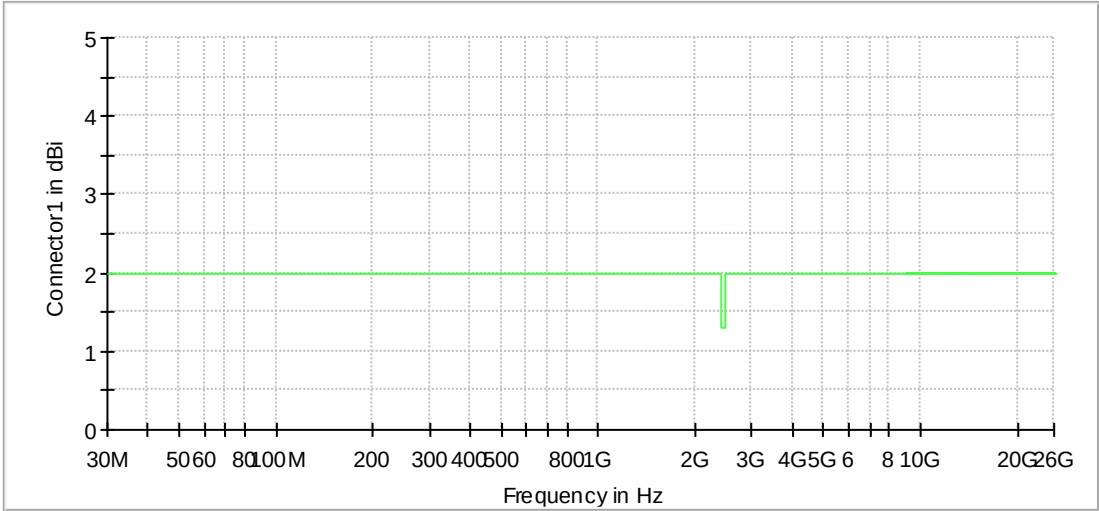
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2395.021008	-9.6	-19.9	-29.5
7205.789099	-65.3	35.8	-29.5
791.785714	-68.0	38.5	-29.5
781.827731	-68.9	39.4	-29.5
9604.412133	-70.9	41.4	-29.5
921.239496	-71.4	41.9	-29.5
24026.133128	-71.9	42.4	-29.5
14411.652465	-71.9	42.4	-29.5
23396.494581	-72.3	42.8	-29.5
21617.515831	-72.7	43.2	-29.5
24016.138865	-72.9	43.4	-29.5
22397.068317	-73.1	43.6	-29.5
23016.712601	-73.3	43.8	-29.5
23356.517531	-73.5	44.0	-29.5
23456.460157	-73.5	44.0	-29.5

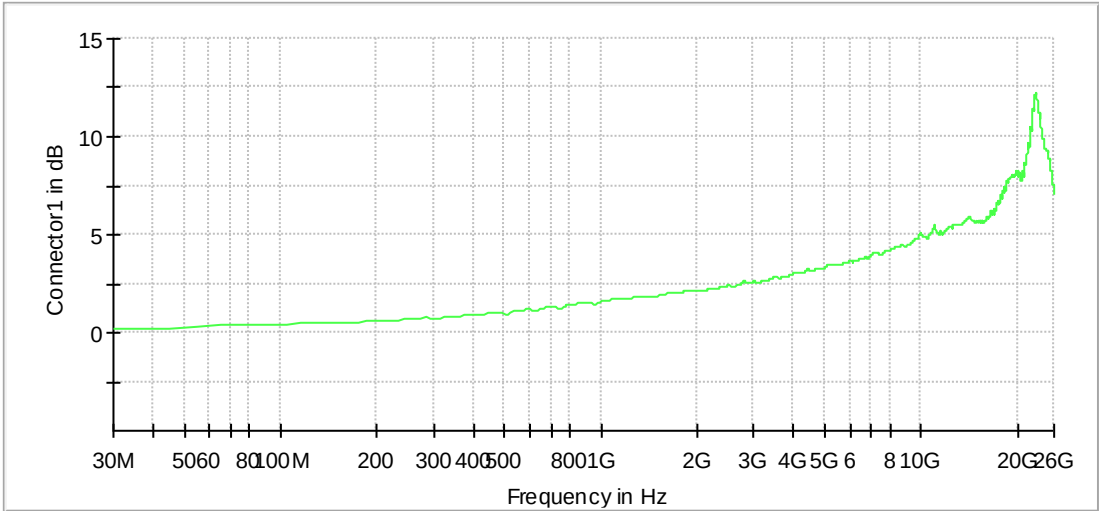
Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	26000.000000	1	1

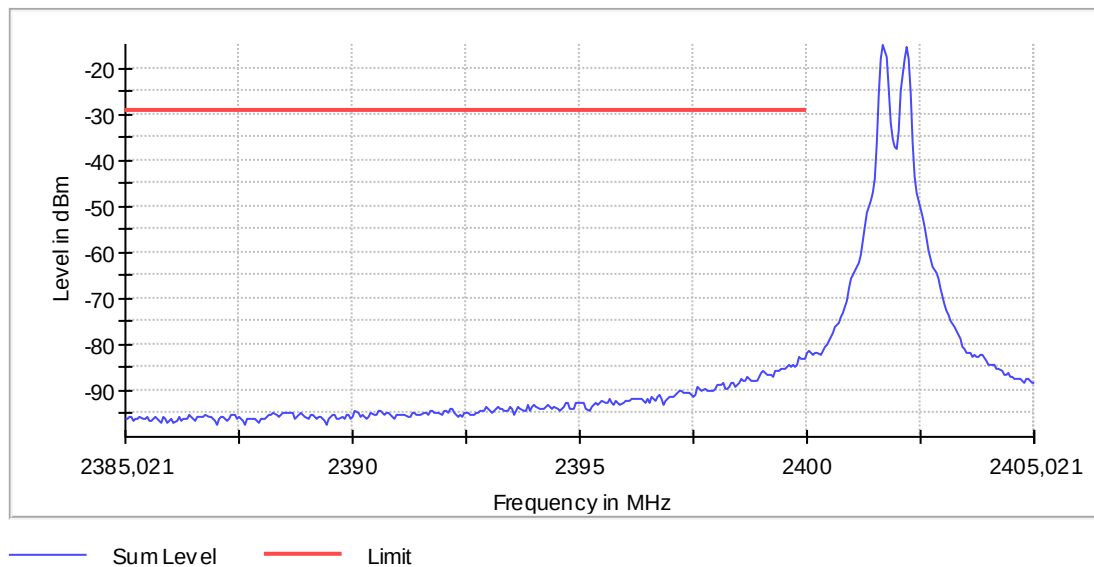




Connector1



Connector1



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
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	4 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Final Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	401	~ 401
SweepTime	1.010 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	AUTO
Detector	Sample	Sample
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Linear	Average Linear
SweepType	Sweep	AUTO
Preamp	off	off

Tx Spurious Emission (2440 MHz; Setting 10 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2440.000000	PASS

Final measurements

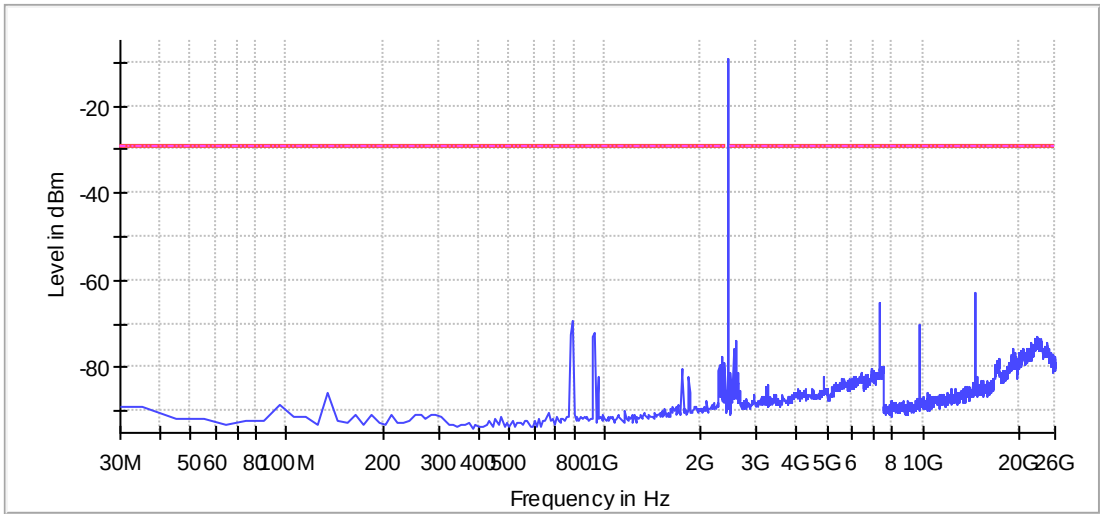
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

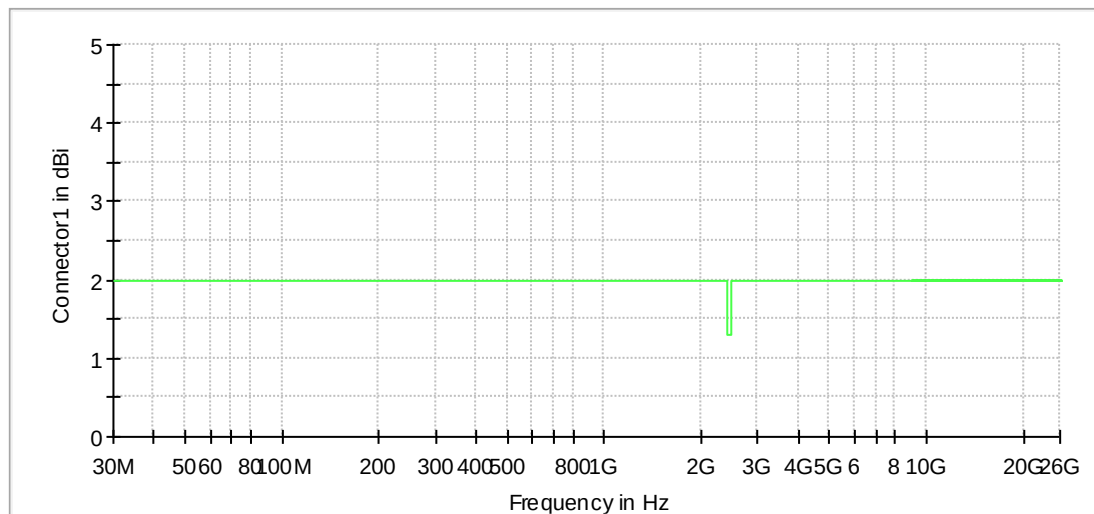
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
14641.520506	-63.0	33.7	-29.3
7315.725988	-65.3	36.0	-29.3
7325.720251	-65.4	36.0	-29.3
791.785714	-69.2	39.8	-29.3
9754.326073	-70.0	40.7	-29.3
9764.320336	-70.3	40.9	-29.3
931.197479	-72.1	42.8	-29.3
781.827731	-72.5	43.2	-29.3
22946.752762	-72.9	43.6	-29.3
22986.729813	-73.0	43.6	-29.3
921.239496	-73.2	43.8	-29.3
22836.815873	-73.2	43.9	-29.3
22936.758500	-73.4	44.1	-29.3
22976.735550	-73.5	44.2	-29.3
22916.769975	-73.5	44.2	-29.3

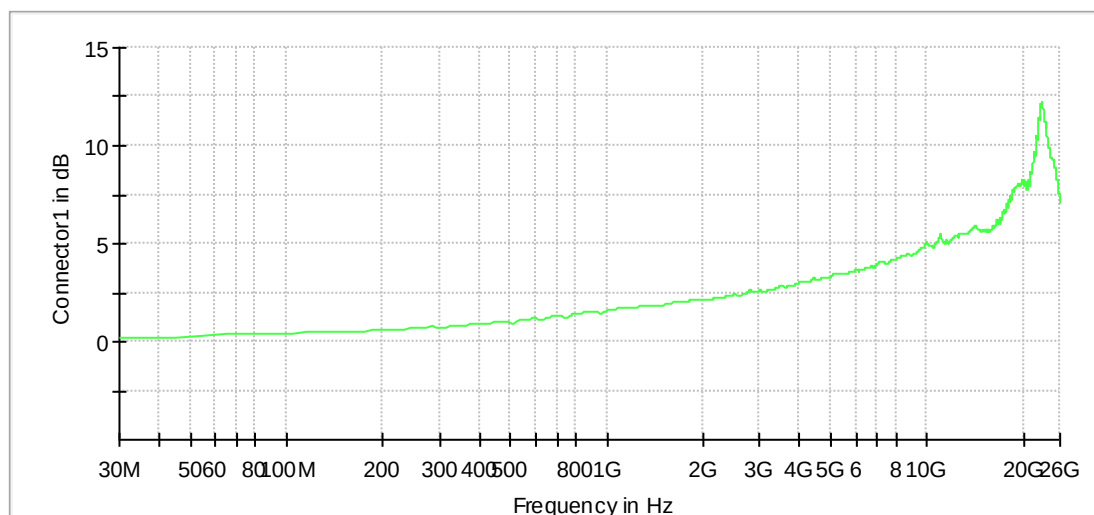
Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	26000.000000	1	1





Connector1



Connector1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
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	7 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Tx Spurious Emission (2480 MHz; Setting 10 dBm; 2 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Final measurements

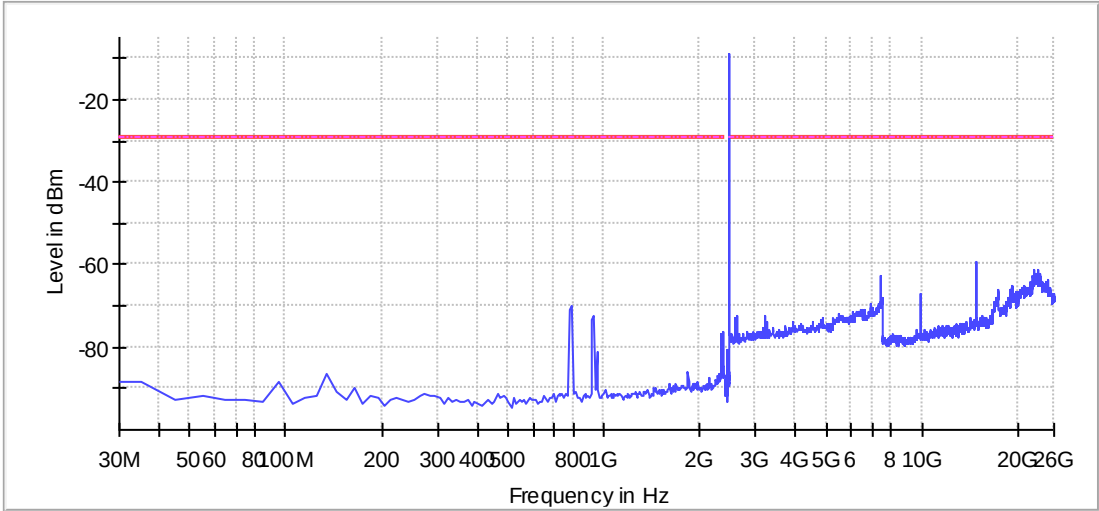
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

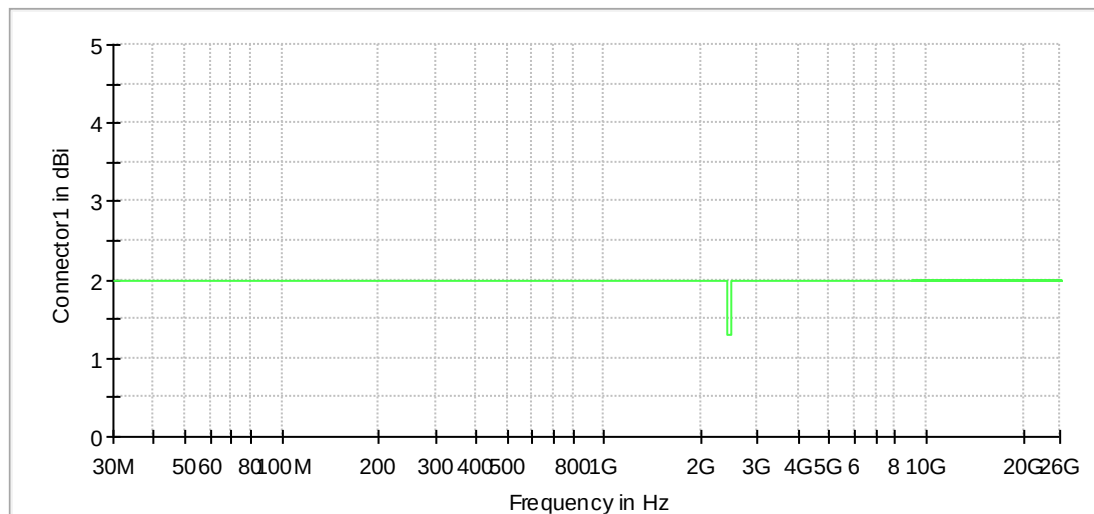
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
14881.382809	-59.3	30.3	-29.0
22457.033893	-61.2	32.2	-29.0
23176.620803	-61.4	32.4	-29.0
22966.741288	-62.2	33.1	-29.0
22896.781449	-62.2	33.2	-29.0
23006.718338	-62.3	33.2	-29.0
23596.379834	-62.3	33.3	-29.0
23586.385572	-62.3	33.3	-29.0
23516.425733	-62.5	33.5	-29.0
22936.758500	-62.6	33.5	-29.0
23556.402784	-62.6	33.5	-29.0
22866.798661	-62.6	33.6	-29.0
7435.657140	-62.6	33.6	-29.0
22916.769975	-62.7	33.7	-29.0
22846.810136	-62.7	33.7	-29.0

Measurement Settings

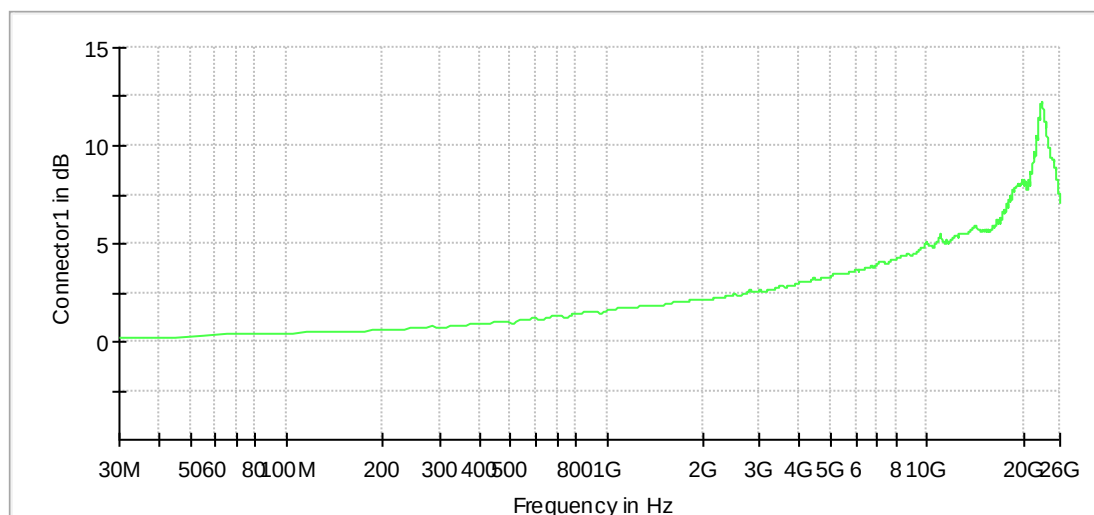
Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	26000.000000	1	1



— Limit — Sum Level - - - - - Threshold × Critical × Final Critical



Connector1



Connector1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
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	8 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

2 Measurement diagrams of radiated tests

2.01a_BT_LE_low_standing

Common Information

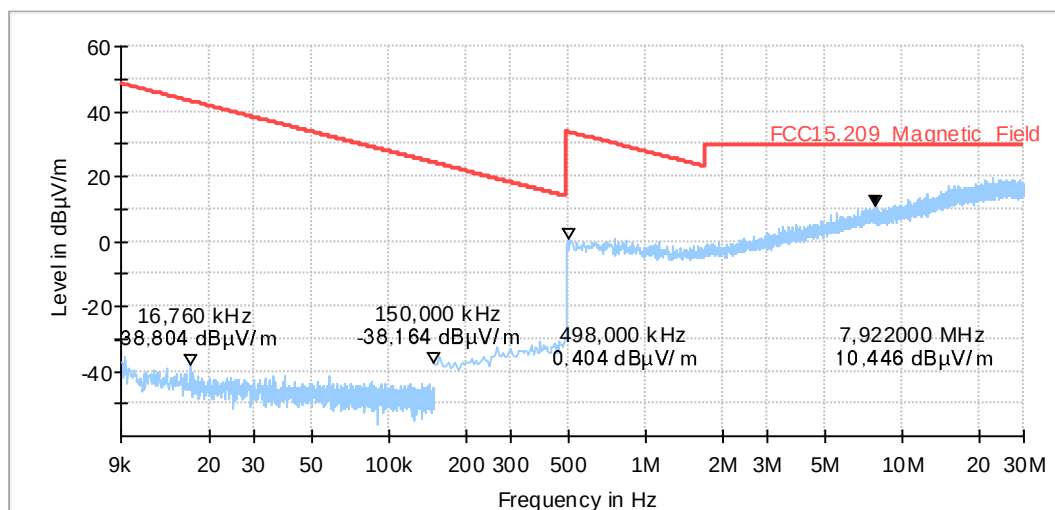
Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-No. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Test Software:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarization
Used Filter:	
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 4

Operator:	TFra
Operating Mode:	BLE TX 2402 MHz_Standing
Power during tests:	12 V DC
Comment 1:	Channel low
Comment 2:	
Environmental Conditions::	Humidity : 55% rH; Temperature: 20 °C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	19-1-00550S106_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



2.01b_BT_LE_low_laying

Common Information

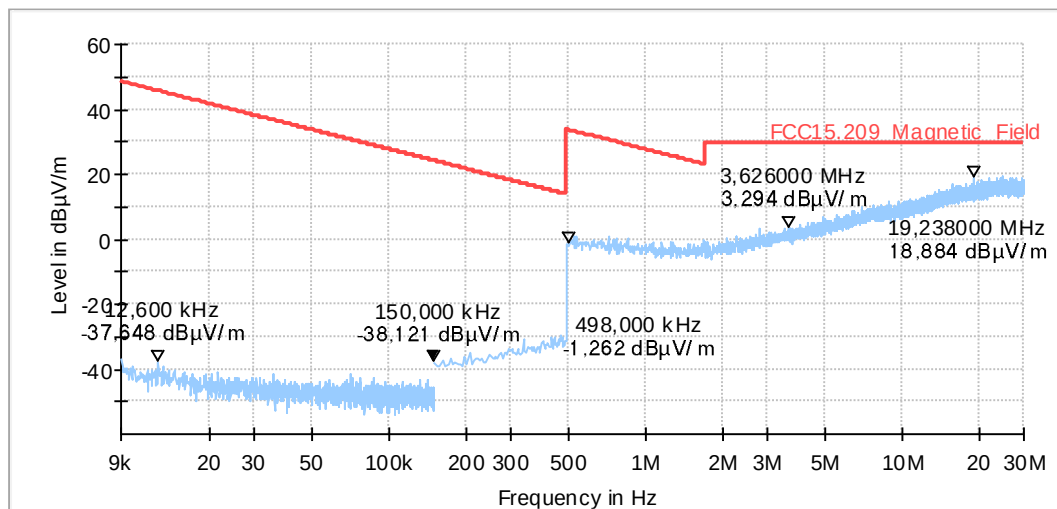
Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-No. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Test Software:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarization
Used Filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator:	TFra
Operating Mode:	BLE TX 2402 MHz_Laying
Power during tests:	12 V DC
Comment 1:	Channel low
Comment 2:	
Environmental Conditions::	Humidity : 59% rH; Temperature: 22 °C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	19-1-00550S106_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



2.02a_BT_LE_mid_standing

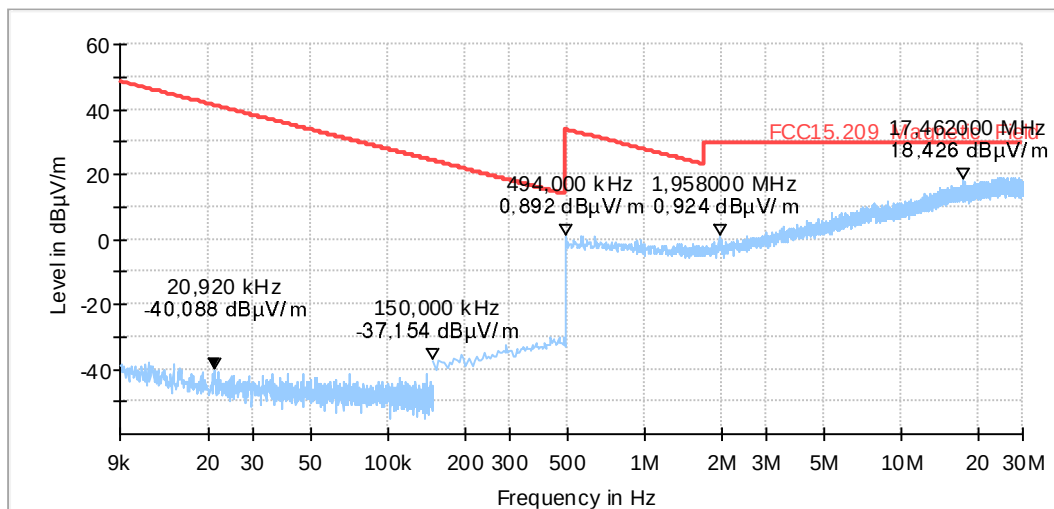
Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-No. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Test Software:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarization
Used Filter:	
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	TFra
Operating Mode:	BLE TX 2440 MHz_standing
Power during tests:	12 V DC
Comment 1:	Channel middle
Comment 2:	
Environmental Conditions::	Humidity : 62% rH; Temperature: 22 °C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	19-1-00550S106_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



2.02b_BT_LE_mid_laying

Common Information

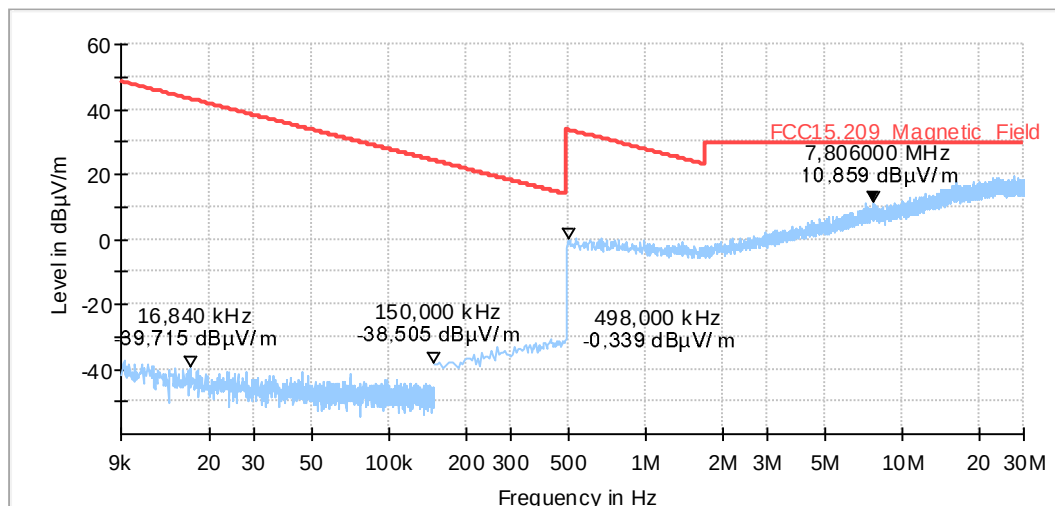
Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-No. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Test Software:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarization
Used Filter:	
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator:	TFra
Operating Mode:	BLE TX 2440 MHz_laying
Power during tests:	12 V DC
Comment 1:	Channel middle
Comment 2:	
Environmental Conditions:	Humidity : 60% rH; Temperature: 22 °C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	19-1-00550S106_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



2.03a_BT_LE_high_standing

Common Information

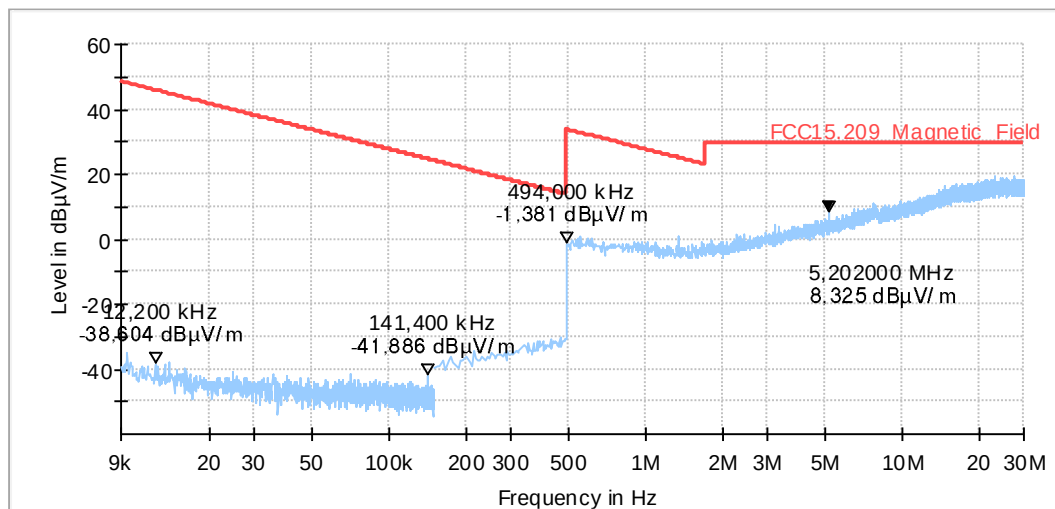
Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-No. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Test Software:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarization
Used Filter:	
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator:	TFra
Operating Mode:	BLE TX 2480 MHz_standing
Power during tests:	12 V DC
Comment 1:	Channel high
Comment 2:	
Environmental Conditions::	Humidity : 62% rH; Temperature: 20 °C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	19-1-00550S106_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



2.03b_BT_LE_high_laying

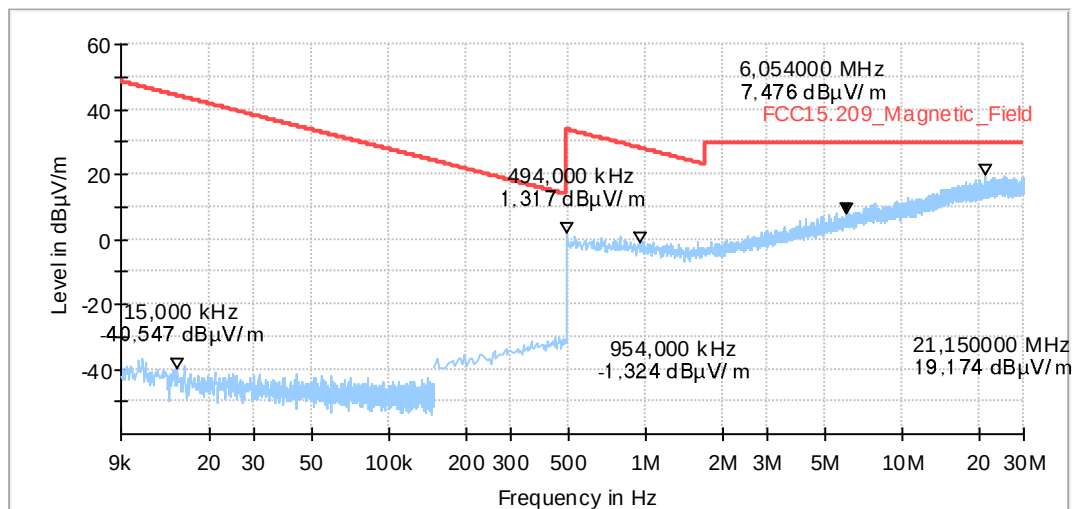
Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-No. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Test Software:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarization
Used Filter:	
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	TFra
Operating Mode:	BLE TX 2480 MHz_laying
Power during tests:	12 V DC
Comment 1:	Channel high
Comment 2:	
Environmental Conditions::	Humidity : 62% rH; Temperature: 22 °C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	19-1-00550S106_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



3.01a_BT_LE_low_standing

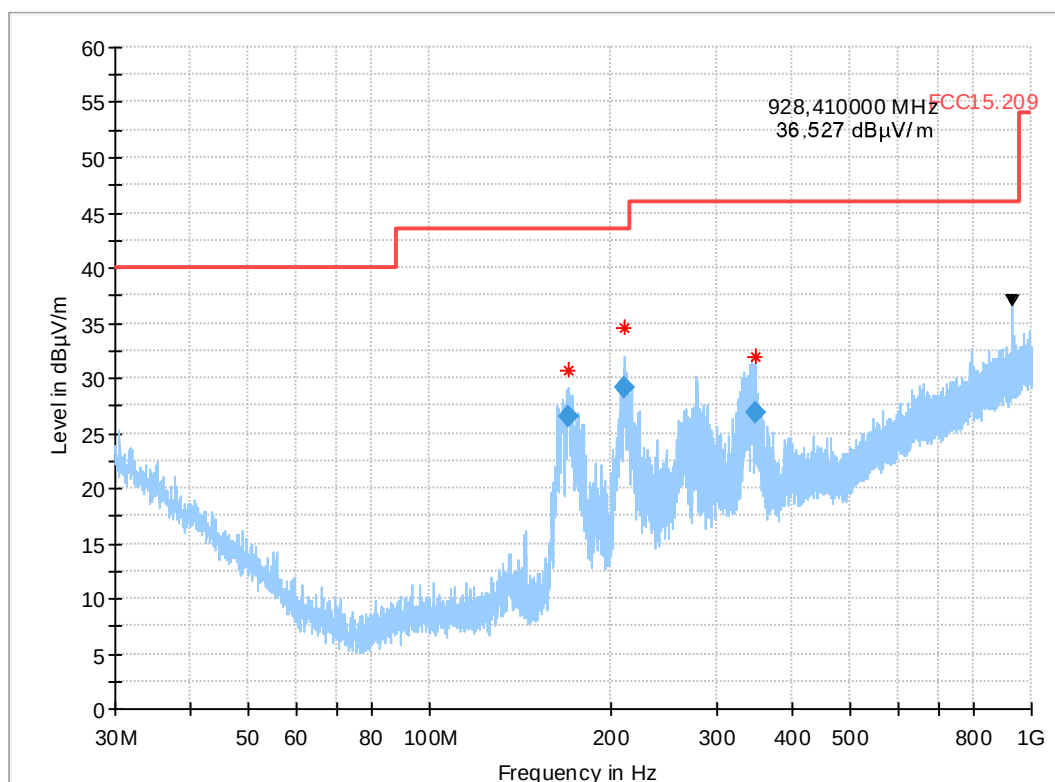
Common Information

Test Description:	Electric Field Strength Measurement
Test Spec.:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna:	receiving antenna is directed to all sides, h=1.55 m height
Operating Mode:	BLE TX 2402 MHz
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
Operator:	TFra
Verdict:	Passed

EUT Information

PMT number:	19-1-00550S104_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB/m)
169.522000	26.43	43.50	17.07	1000.0	120.000	203.0	H	277.0	10.2
210.200000	29.16	43.50	14.34	1000.0	120.000	121.0	H	147.0	11.6
347.934000	26.87	46.00	19.13	1000.0	120.000	105.0	H	61.0	16.6

3.01b_BT_LE_low_laying

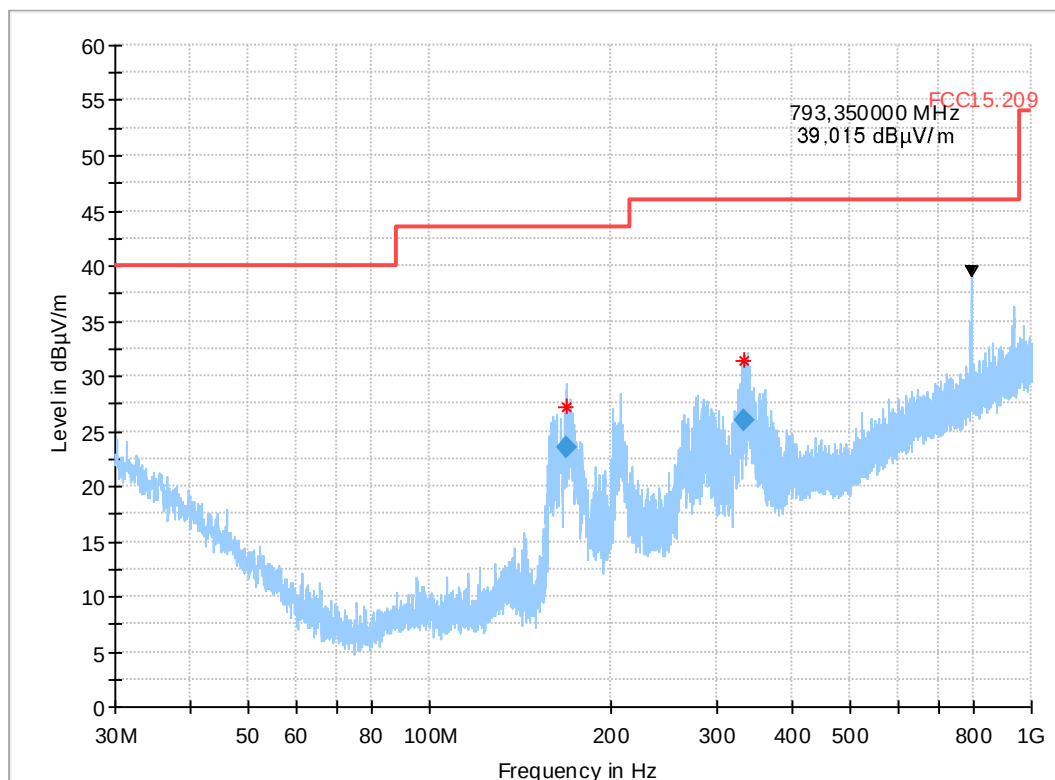
Common Information

Test Description:	Electric Field Strength Measurement
Test Spec.:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna:	receiving antenna is directed to all sides, h=1.55 m height
Operating Mode:	BLE TX 2402 MHz
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
Operator:	TFra
Verdict:	Passed

EUT Information

PMT number:	19-1-00550S104_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB/m)
169.230000	23.48	43.50	20.02	1000.0	120.000	201.0	H	279.0	10.2
332.124000	25.99	46.00	20.01	1000.0	120.000	112.0	H	22.0	16.2

3.02a_BT_LE_mid_standing

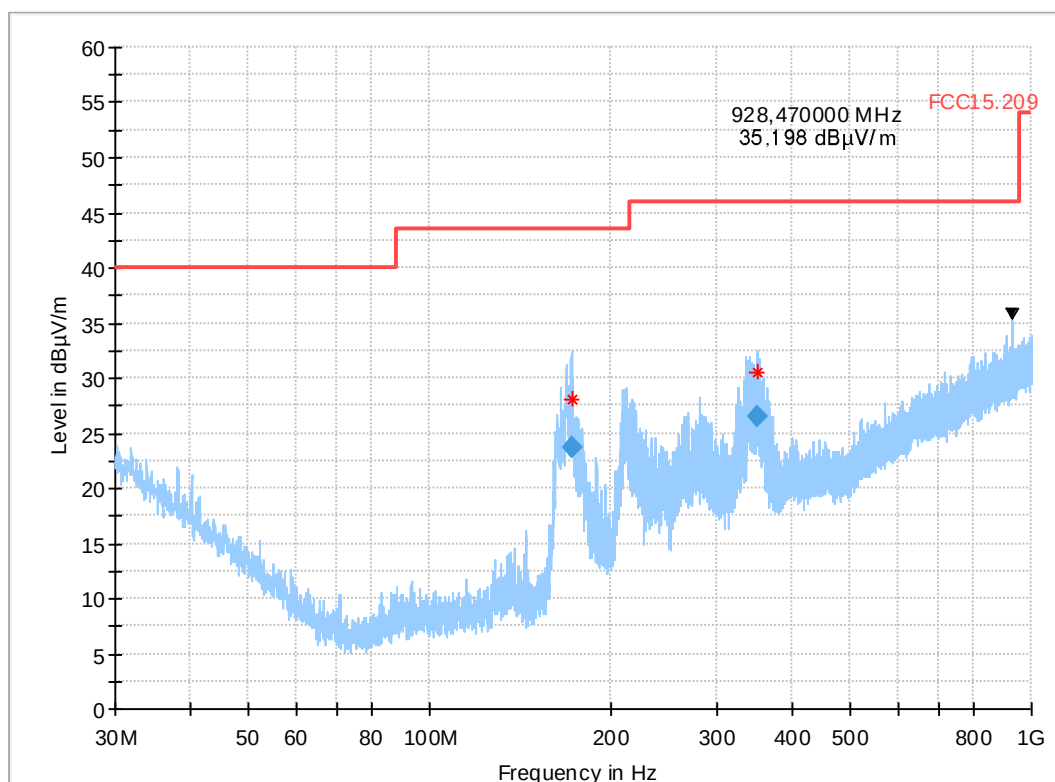
Common Information

Test Description:	Electric Field Strength Measurement
Test Spec.:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna:	receiving antenna is directed to all sides, h=1.55 m height
Operating Mode:	BLE TX 2440 MHz
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
Operator:	TFra
Verdict:	Passed

EUT Information

PMT number:	19-1-00550S104_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB/m)
172.016000	23.69	43.50	19.81	1000.0	120.000	204.0	H	130.0	10.3
349.628000	26.50	46.00	19.50	1000.0	120.000	109.0	H	9.0	16.6

3.02b_BT_LE_mid_laying

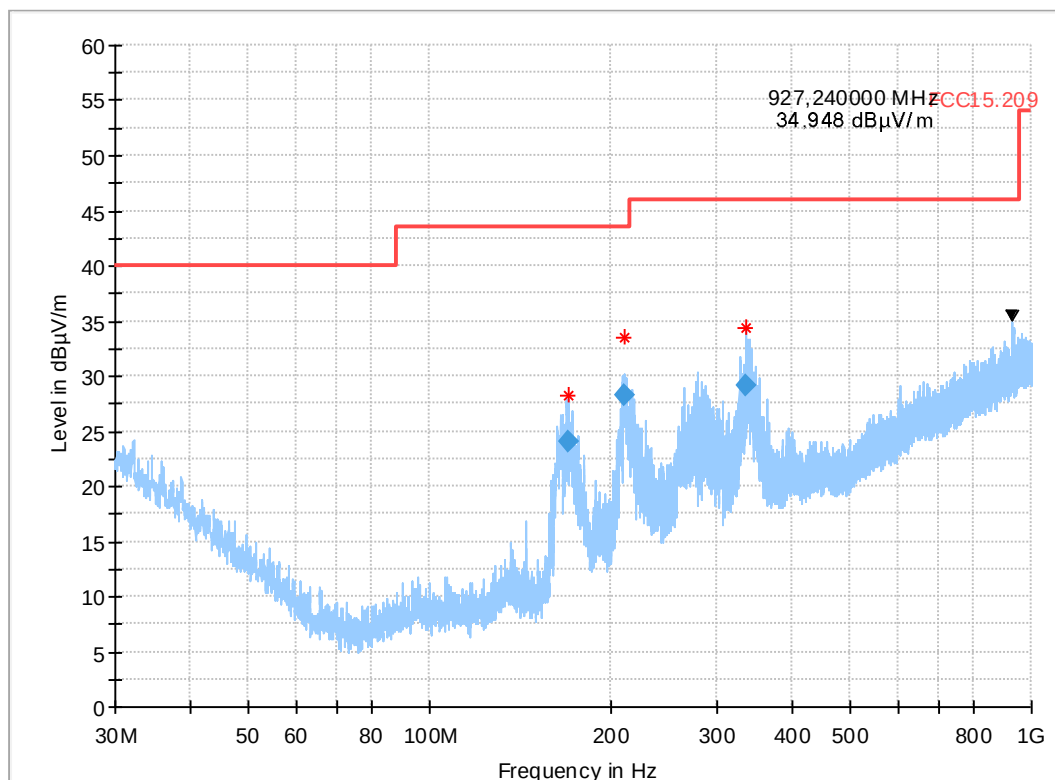
Common Information

Test Description:	Electric Field Strength Measurement
Test Spec.:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna:	receiving antenna is directed to all sides, h=1.55 m height
Operating Mode:	BLE TX 2440 MHz
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
Operator:	TFra
Verdict:	PassedComment:

EUT Information

PMT number:	19-1-00550S104_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB/m)
169.720000	23.96	43.50	19.54	1000.0	120.000	121.0	H	191.0	10.3
210.838000	28.27	43.50	15.23	1000.0	120.000	135.0	H	173.0	11.7
335.348000	29.10	46.00	16.90	1000.0	120.000	119.0	H	47.0	16.3

3.03a_BT_LE_high_standing

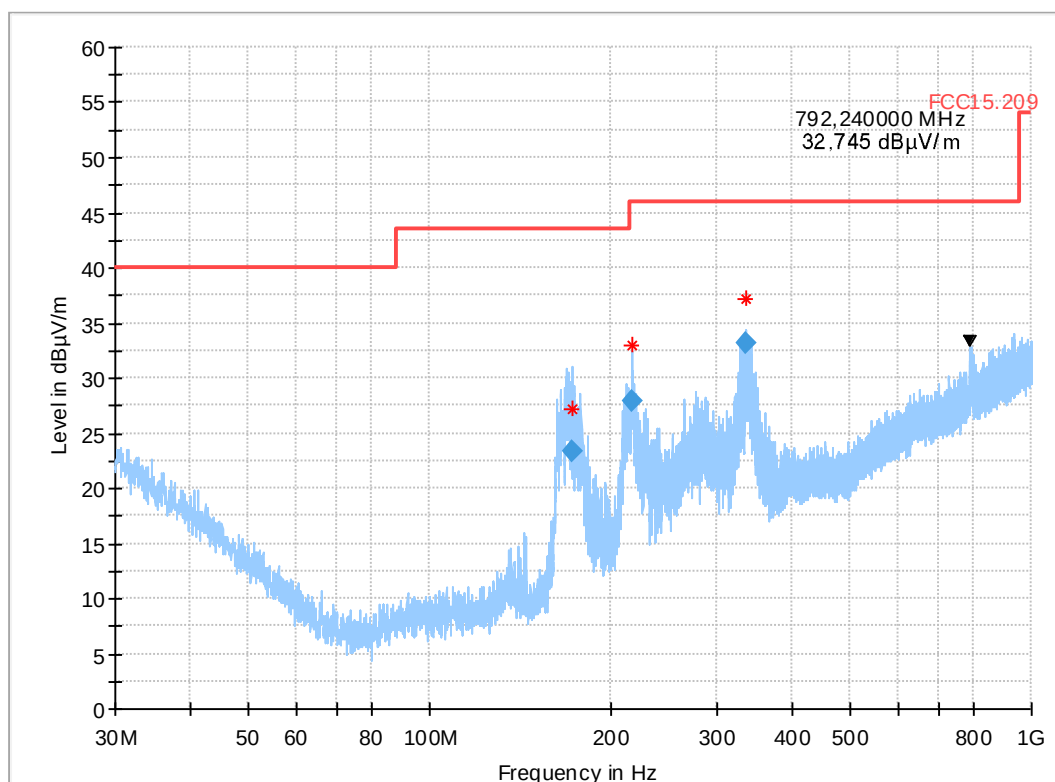
Common Information

Test Description:	Electric Field Strength Measurement
Test Spec.:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna:	receiving antenna is directed to all sides, h=1.55 m height
Operating Mode:	BLE TX 2480 MHz
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
Operator:	TFra
Verdict:	Passed

EUT Information

PMT number:	19-1-00550S104_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB/m)
172.282000	23.33	43.50	20.17	1000.0	120.000	213.0	H	88.0	10.3
216.932000	27.90	46.00	18.10	1000.0	120.000	144.0	H	163.0	12.0
335.258000	33.16	46.00	12.84	1000.0	120.000	109.0	H	32.0	16.3

3.03b_BT_LE_high_laying

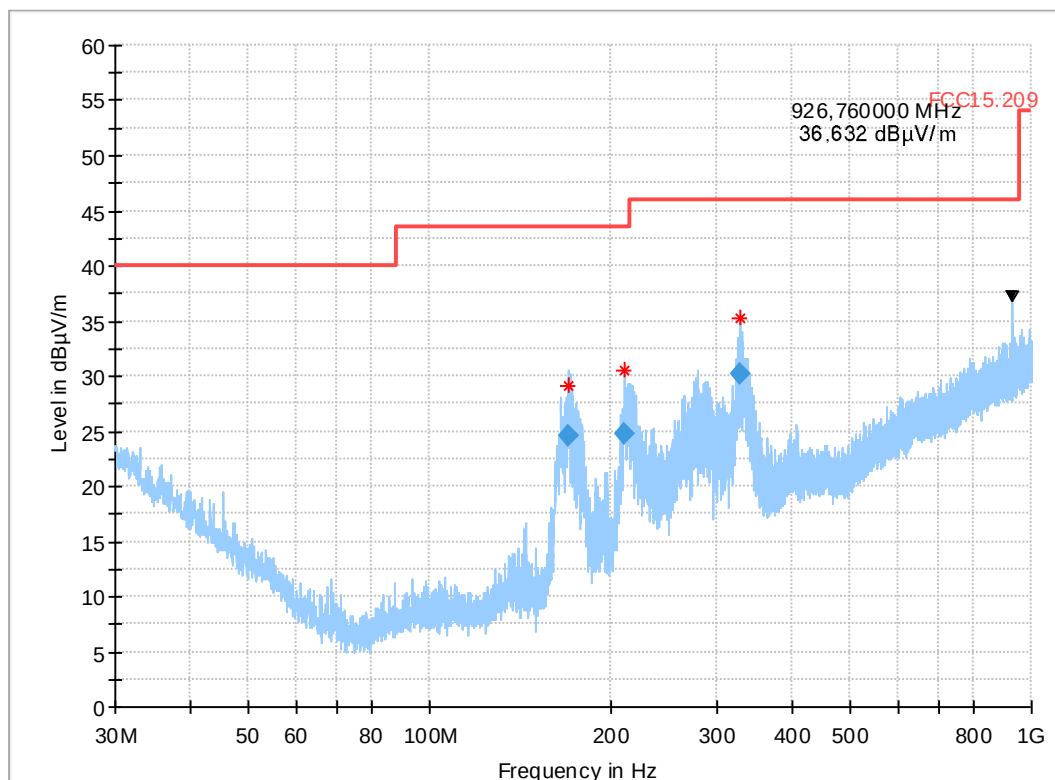
Common Information

Test Description:	Electric Field Strength Measurement
Test Spec.:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna:	receiving antenna is directed to all sides, h=1.55 m height
Operating Mode:	BLE TX 2480 MHz
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
Operator:	TFra
Verdict:	Passed

EUT Information

PMT number:	19-1-00550S104_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB/m)
169.690000	24.48	43.50	19.02	1000.0	120.000	130.0	H	213.0	10.3
210.522000	24.73	43.50	18.77	1000.0	120.000	145.0	H	299.0	11.7
329.124000	30.11	46.00	15.89	1000.0	120.000	105.0	H	356.0	16.1

4.01a_BT_LE_low

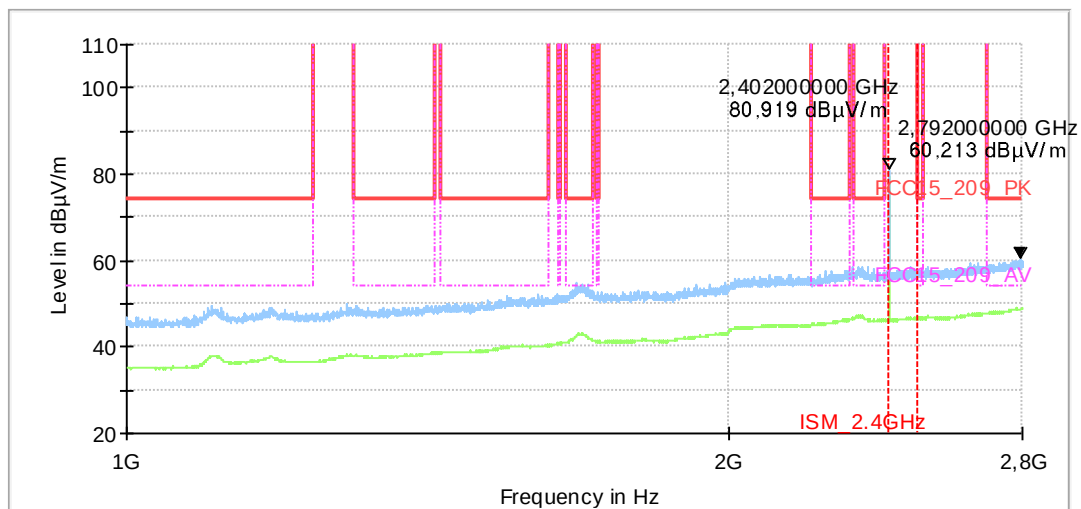
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3 m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarization:	horizontal/vertical
Environmental Conditions::	Humidity : 51% rH; Temperature: 21 °C
Operating Mode:	BLE TX ch01
Operator:	MSouissi/Mah
Comment:	Channel no. low
Comment2:	
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	19-1-00550S104_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Elevation
4782.370000	44.36	---	74.00	29.64	100.0	1000.000	155.0	V	338.0	90.0
4803.490000	51.98	---	74.00	22.03	100.0	1000.000	155.0	H	190.0	90.0
4804.490000	---	43.73	54.00	10.27	100.0	1000.000	155.0	H	189.0	90.0
7205.210000	56.19	---	150.00	93.81	100.0	1000.000	155.0	H	124.0	90.0
7206.730000	---	49.08	150.00	100.92	100.0	1000.000	155.0	H	121.0	90.0
9608.970000	---	52.08	150.00	97.92	100.0	1000.000	155.0	H	179.0	0.0
9608.970000	60.14	---	150.00	89.86	100.0	1000.000	155.0	H	180.0	0.0

4.02a_BT_LE_mid

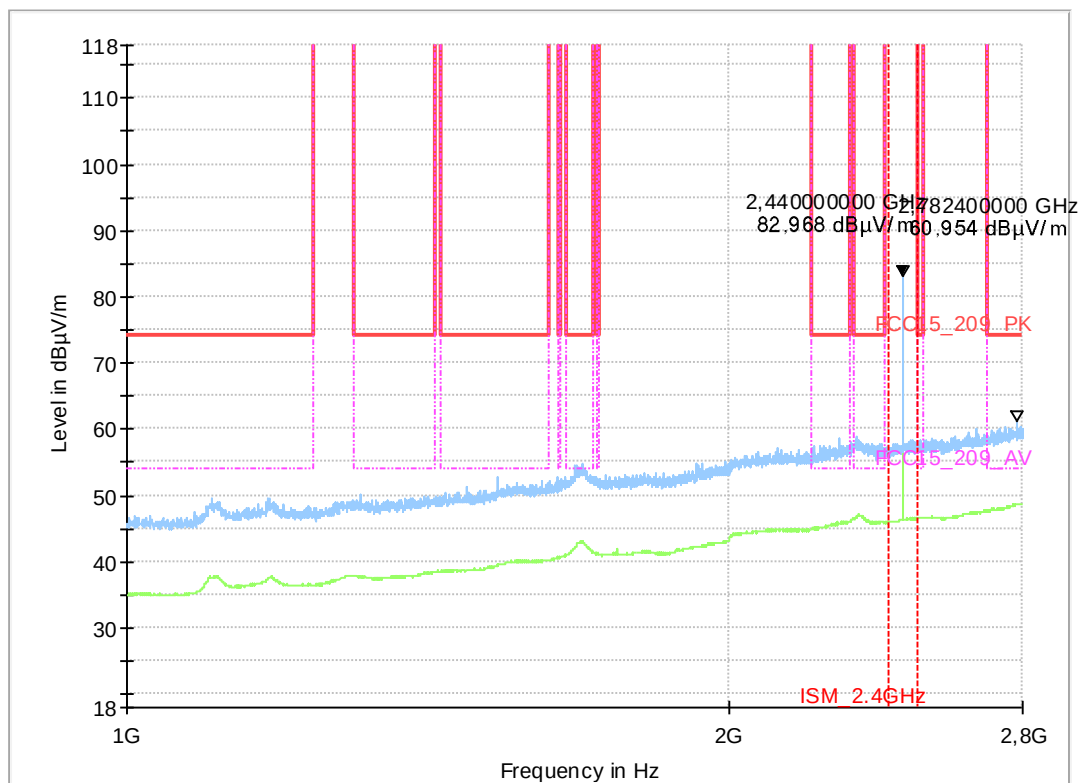
Common Information

Test Description:	Radiated field strength emission in 3 m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarization:	horizontal/vertical
Environmental Conditions:	Humidity : 51% rH; Temperature: 21 °C
Operating Mode:	BLE TX ch19
Operator:	HEI
Comment:	Channel no. middle
Comment2:	
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	19-1-00550S104_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
4879.600000	---	38.61	54.00	15.39	100.0	1000.000	155.0	V	55.0	90.0
4880.400000	48.99	---	74.00	25.01	100.0	1000.000	155.0	V	56.0	90.0
7319.200000	---	47.30	54.00	6.70	100.0	1000.000	155.0	H	57.0	0.0
7320.800000	56.18	---	74.00	17.82	100.0	1000.000	155.0	H	57.0	0.0
9760.800000	---	47.17	150.00	102.83	100.0	1000.000	155.0	H	186.0	0.0
9760.800000	57.44	---	150.00	92.56	100.0	1000.000	155.0	H	185.0	0.0
14638.400000	---	45.99	150.00	104.01	100.0	1000.000	155.0	V	190.0	90.0

(continuation of the "Final Result" table from column 16 ...)

Frequency (MHz)	Corr. (dB/m)	Comment
4879.600000	6	10:54:53 - 06.07.2020
4880.400000	6	10:49:45 - 06.07.2020
7319.200000	13	10:51:29 - 06.07.2020
7320.800000	13	10:46:27 - 06.07.2020
9760.800000	17	10:52:56 - 06.07.2020
9760.800000	17	10:47:49 - 06.07.2020
14638.400000	24	10:56:24 - 06.07.2020

4.03a_BT_LE_high

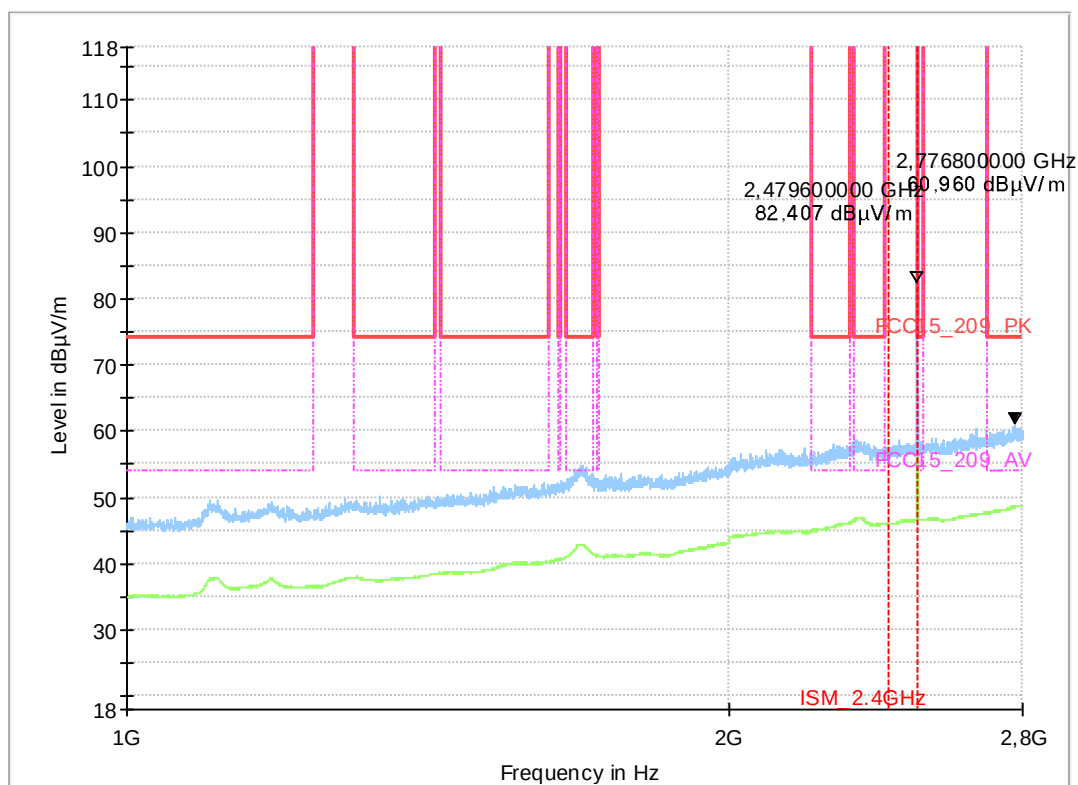
Common Information

Test Description:	Radiated field strength emission in 3 m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarization:	horizontal/vertical
Environmental Conditions:	Humidity : 51% rH; Temperature: 21 °C
Operating Mode:	BLE TX high
Operator:	HEI
Comment:	Channel no. high
Comment2:	
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	19-1-00550S104_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
4959.600000	---	44.64	54.00	9.36	100.0	1000.000	155.0	V	92.0	0.0
4959.600000	52.18	---	74.00	21.82	100.0	1000.000	155.0	V	93.0	0.0
7439.200000	---	48.01	54.00	5.99	100.0	1000.000	155.0	H	135.0	90.0
7440.800000	56.34	---	74.00	17.66	100.0	1000.000	155.0	H	136.0	90.0
9919.200000	55.07	---	150.00	94.93	100.0	1000.000	155.0	H	46.0	90.0
9920.800000	---	46.32	150.00	103.68	100.0	1000.000	155.0	H	46.0	90.0

(continuation of the "Final Result" table from column 16 ...)

Frequency (MHz)	Corr. (dB/m)
4959.600000	5
4959.600000	5
7439.200000	13
7440.800000	13
9919.200000	17
9920.800000	17

4.01b_BT_LE_low_2.8-18G

Common Information

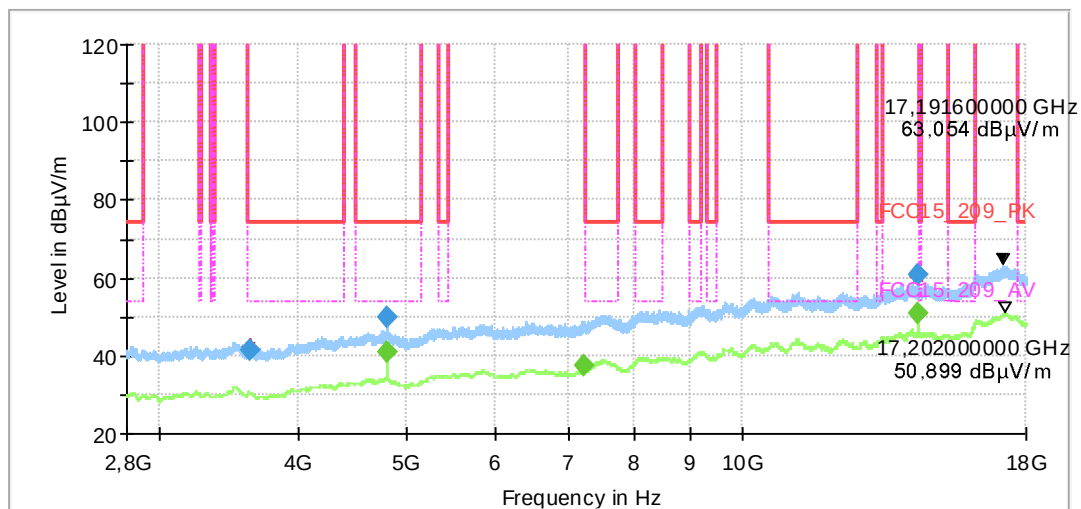
Test Description: Radiated field strength emission in 3 m distance
 Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
 Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
 Antenna polarization: horizontal/vertical

Operating Mode: BLE_TX_low Channel
 Operator: HEI
 Comment: Channel no. low
 Comment2:
 EUT Setup: 1
 Verdict: Passed

EUT Information

PMT number: 19-1-00550S167_C01
 Manufacturer: AEV spol. s r.o.

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin	Meas. Time (ms)	Bandwidth (h)	Height	Pol	Azimuth	Elevation
3616.800000	41.43	---	74.00	32.57	100.0	1000.000	155.0	V	26.0	90.0
4804.400000	---	40.76	54.00	13.24	100.0	1000.000	155.0	H	198.0	90.0
4804.400000	50.02	---	74.00	23.99	100.0	1000.000	155.0	H	88.0	90.0
7205.200000	---	37.48	150.00	112.52	100.0	1000.000	155.0	H	139.0	90.0
14410.400000	60.56	---	150.00	89.44	100.0	1000.000	155.0	H	172.0	0.0
14410.400000	---	50.61	150.00	99.39	100.0	1000.000	155.0	H	171.0	0.0

(continuation of the "Final Result" table from column 16 ...)

Frequency (MHz)	Corr. (dB/m)	Comment
3616.800000	2	15:45:11 - 20.07.2020
4804.400000	6	15:49:57 - 20.07.2020
4804.400000	6	15:43:25 - 20.07.2020

7205.200000	12	15:48:39 - 20.07.2020
14410.400000	23	15:41:46 - 20.07.2020
14410.400000	23	15:47:05 - 20.07.2020

4.02b_BT_LE_mid_2.8-18G

Common Information

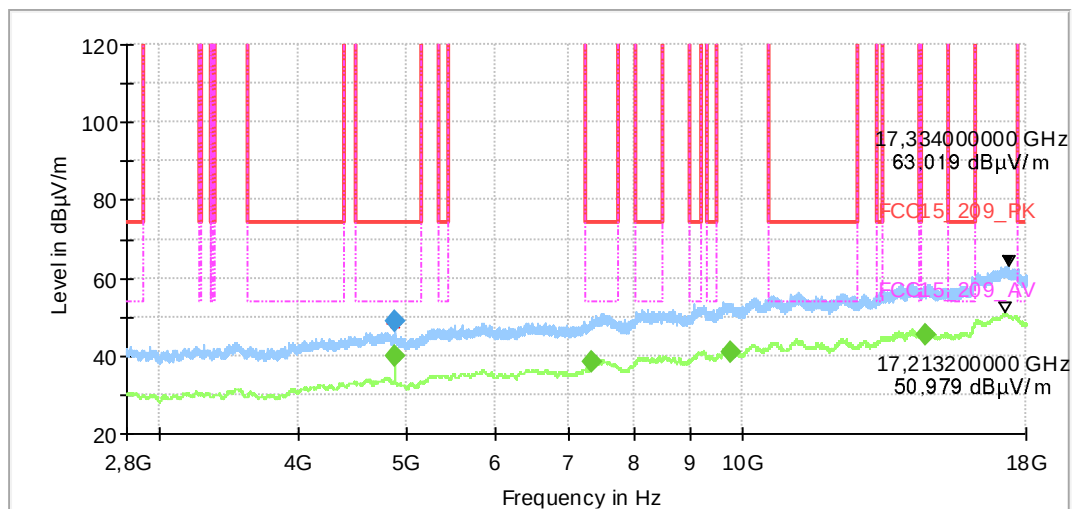
Test Description: Radiated field strength emission in 3 m distance
Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarization: horizontal/vertical

Operating Mode: BLE_TX_Mid Channel
Operator: Mah
Comment: Channel no. mid
Comment2:
EUT Setup: 1
Verdict: Passed

EUT Information

PMT number: 19-1-00550S167_C01
Manufacturer: AEV spol. s r.o.

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
4879.200000	48.97	---	74.00	25.03	100.0	1000.000	155.0	H	188.0	90.0
4879.600000	---	39.87	54.00	14.13	100.0	1000.000	155.0	H	188.0	90.0
7319.200000	---	38.37	54.00	15.63	100.0	1000.000	155.0	V	59.0	90.0
9759.200000	---	40.74	150.00	109.26	100.0	1000.000	155.0	H	248.0	90.0
14641.600000	---	45.60	150.00	104.40	100.0	1000.000	155.0	H	218.0	90.0

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

Frequency (MHz)	Corr. (dB/m)	Comment
4879.200000	6	16:55:54 - 20.07.2020
4879.600000	6	16:57:20 - 20.07.2020
7319.200000	13	17:02:03 - 20.07.2020
9759.200000	17	16:58:39 - 20.07.2020
14641.600000	24	17:00:07 - 20.07.2020

4.03b_BT_LE_high_2.8-18G

Common Information

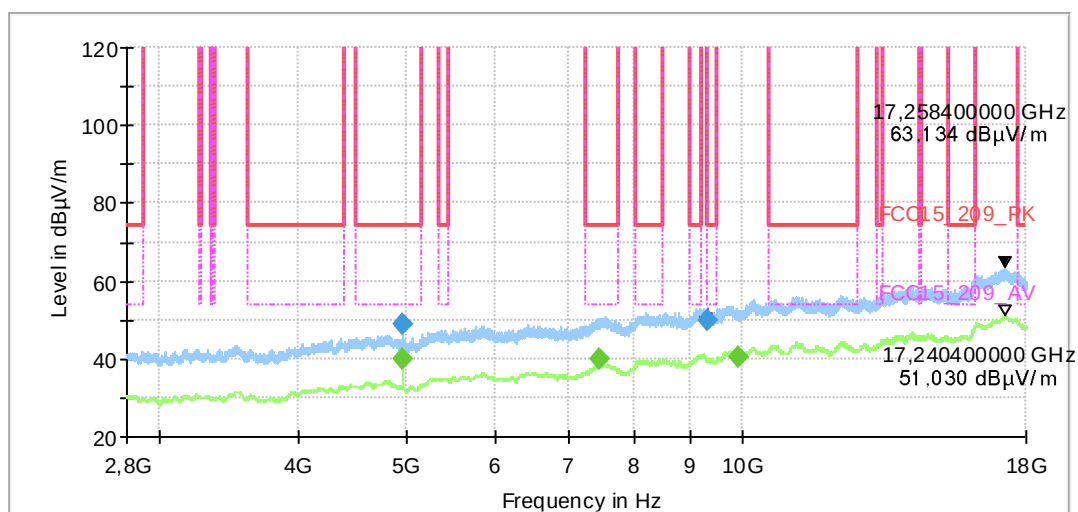
Test Description: Radiated field strength emission in 3 m distance
Test Site: Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarization: horizontal/vertical

Operating Mode: BLE_TX_High Channel
Operator: Mah
Comment: Channel no. high
Comment2: 1
EUT Setup: 1
Verdict: Passed

EUT Information

PMT number: 19-1-00550S167_C01
Manufacturer: AEV spol. s r.o.

Full Spectrum



Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
4959.600000	48.98	---	74.00	25.02	100.0	1000.000	155.0	V	90.0	90.0
4960.400000	---	39.80	54.00	14.20	100.0	1000.000	155.0	V	90.0	90.0
7439.200000	---	40.10	54.00	13.90	100.0	1000.000	155.0	V	92.0	90.0
9317.600000	49.97	---	74.00	24.03	100.0	1000.000	155.0	V	79.0	0.0
9918.800000	---	40.15	150.00	109.85	100.0	1000.000	155.0	H	229.0	90.0

(continuation of the "Final Result" table from column 16 ...)

Frequency (MHz)	Corr. (dB/m)	Comment
4959.600000	5	18:11:09 - 20.07.2020
4960.400000	5	18:14:49 - 20.07.2020
7439.200000	13	18:16:16 - 20.07.2020
9317.600000	15	18:09:37 - 20.07.2020
9918.800000	17	18:12:54 - 20.07.2020

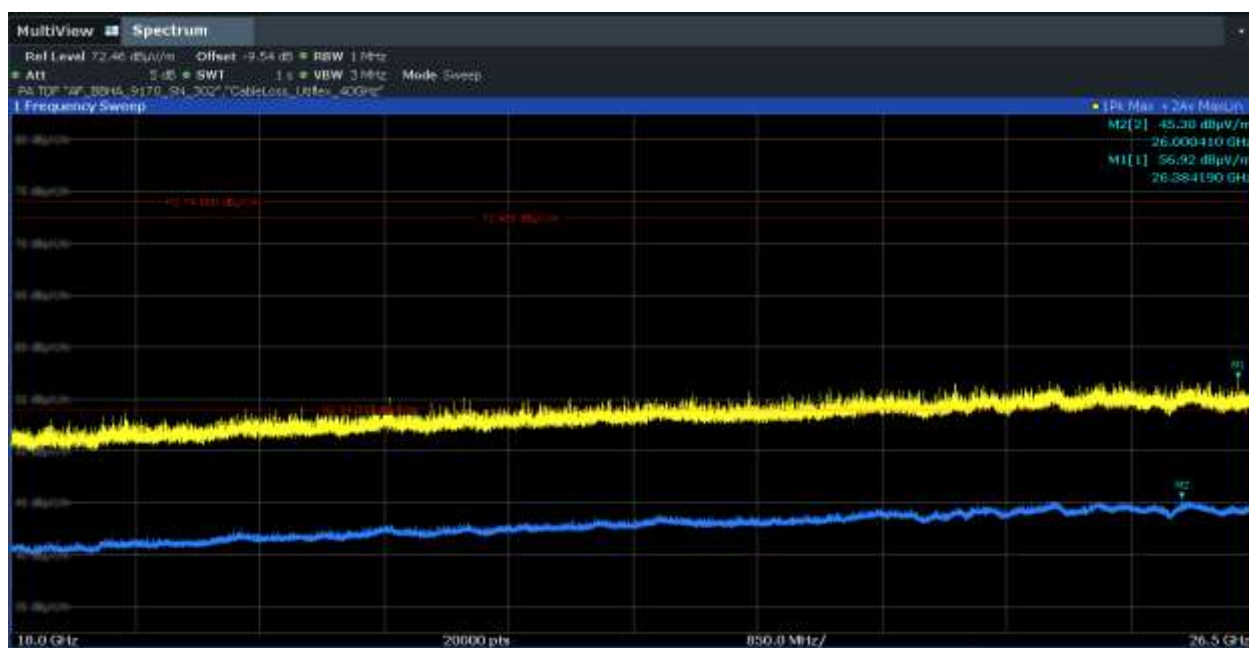
4.01c_BT_LE_low

Common Information

Test Description:	Radiated field strength emission in 1 m distance
Test Site:	Fully Anechoic Chamber (FAC2)
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarization:	horizontal/vertical
Environmental Conditions::	Humidity : 51% rH; Temperature: 21 °C
Operating Mode:	BLE TX low
Operator:	npe
Comment:	Channel low, 2402 MHz
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	19-1-00550S167_C01
Manufacturer:	AEV spol. s r.o.



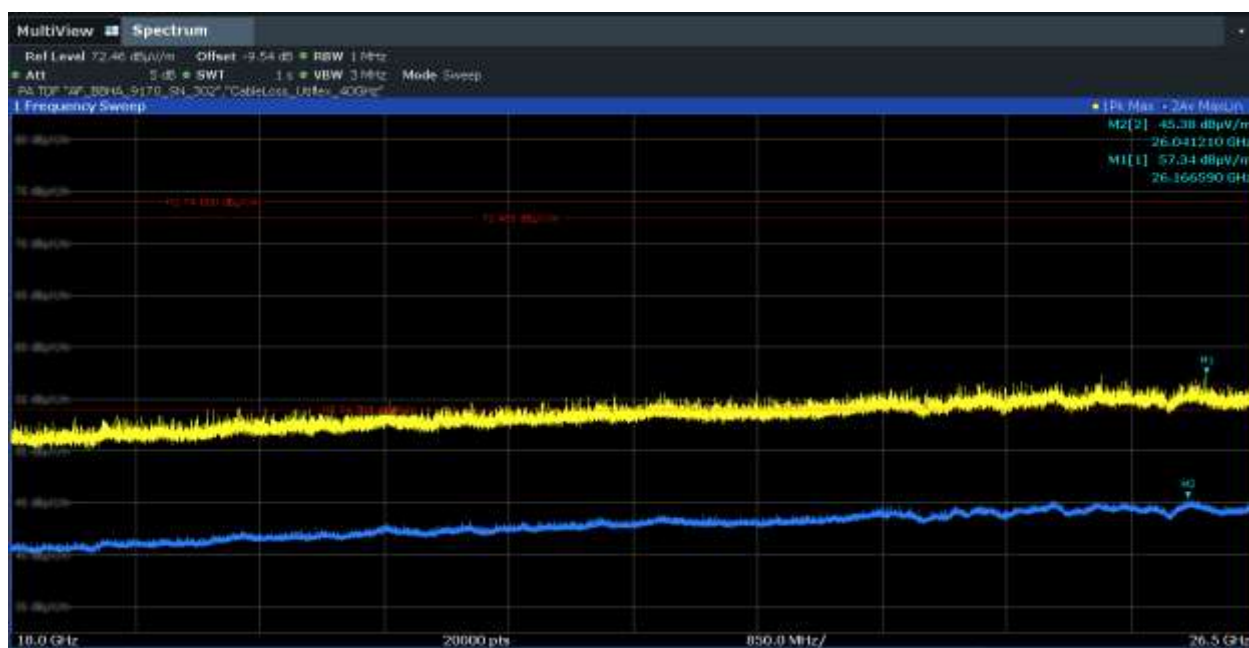
4.02c_BT_LE_mid

Common Information

Test Description:	Radiated field strength emission in 1 m distance
Test Site:	Fully Anechoic Chamber (FAC2)
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarization:	horizontal/vertical
Environmental Conditions::	Humidity : 51% rH; Temperature: 21 °C
Operating Mode:	BLE TX mid
Operator:	npe
Comment:	Channel mid, 2440 MHz
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	19-1-00550S167_C01
Manufacturer:	AEV spol. s r.o.



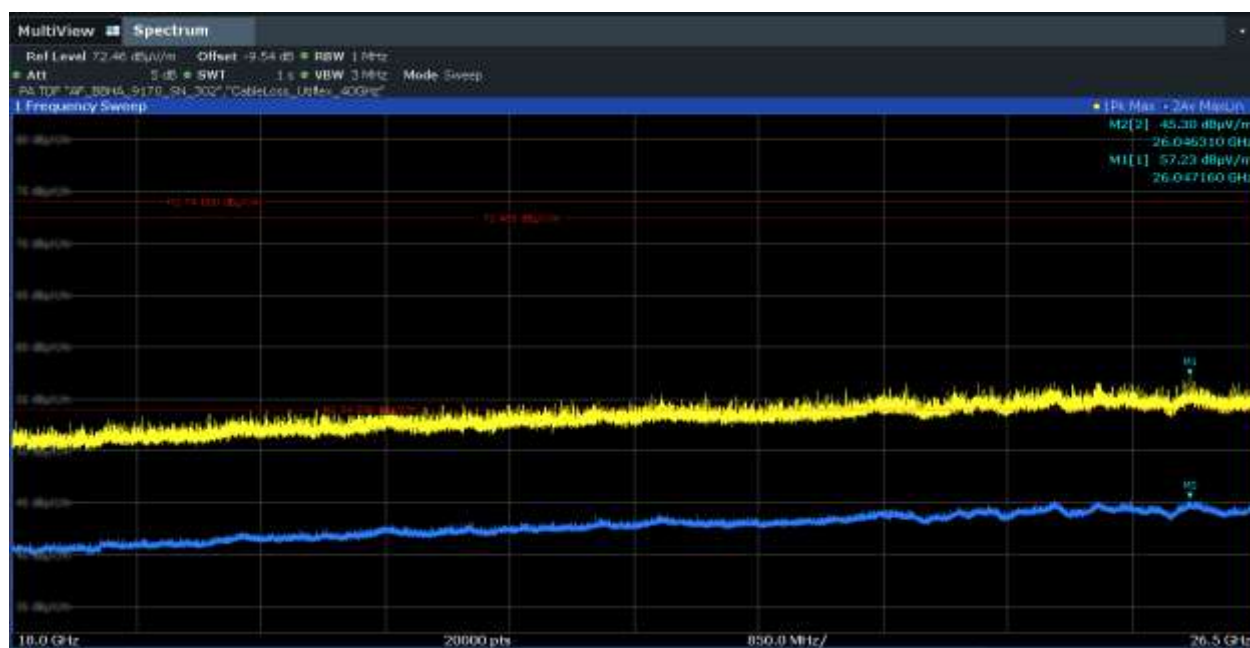
4.03c_BT_LE_high

Common Information

Test Description:	Radiated field strength emission in 1 m distance
Test Site:	Fully Anechoic Chamber (FAC2)
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarization:	horizontal/vertical
Environmental Conditions::	Humidity : 51% rH; Temperature: 21 °C
Operating Mode:	BLE TX high
Operator:	npe
Comment:	Channel high, 2480 MHz
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	19-1-00550S167_C01
Manufacturer:	AEV spol. s r.o.



9.01_BE_BT_LE_low

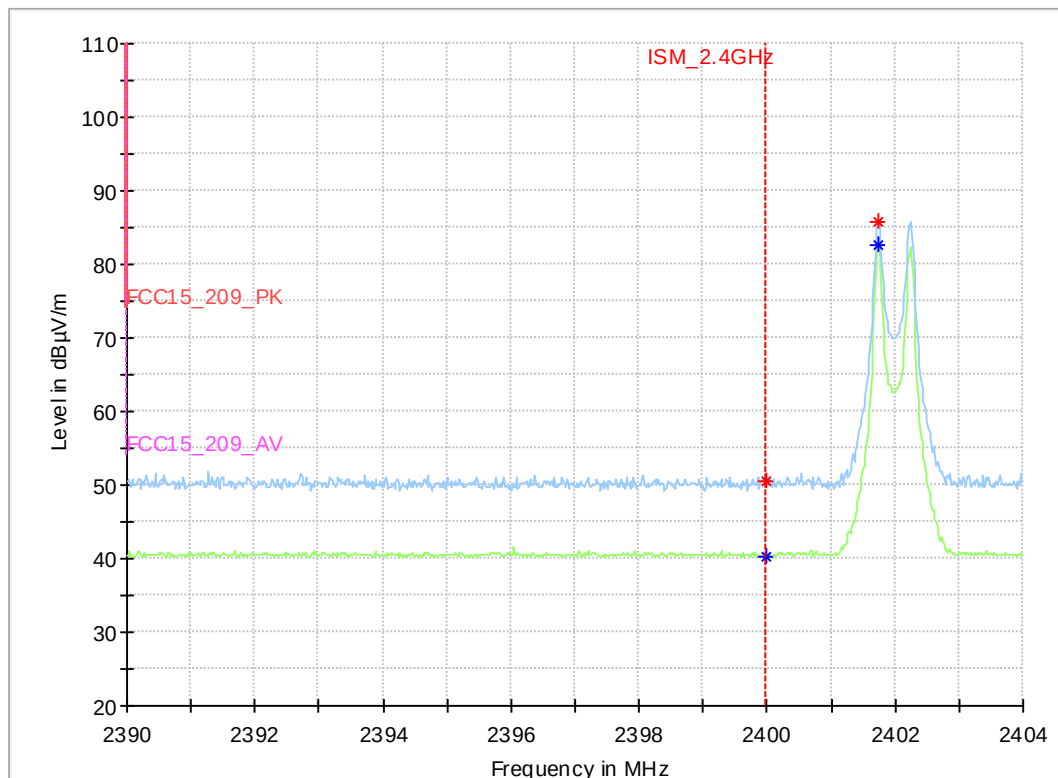
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3 m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarization:	horizontal/vertical
Environmental Conditions::	Humidity : 51% rH; Temperature: 21 °C
Operating Mode:	BT_Low Channel
Operator:	Mah/TFra
Comment:	Channel no. low
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	19-1-00550S104_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
2400.000000	50.63	---	150.00	99.37	---	---	155.0	H	359.0	0.0
2400.000000	---	40.37	150.00	109.63	---	---	155.0	V	266.0	90.0
2401.740000	85.86	---	150.00	64.14	---	---	155.0	H	70.0	0.0
2401.740000	---	82.54	150.00	67.46	---	---	155.0	H	70.0	0.0

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

Frequency (MHz)	Corr. (dB/m)	Comment
2400.000000	36	10:09:26 - 13.07.2020
2400.000000	36	10:09:30 - 13.07.2020
2401.740000	36	10:09:39 - 13.07.2020
2401.740000	36	10:09:41 - 13.07.2020

9.02_BE_BT_LE_high

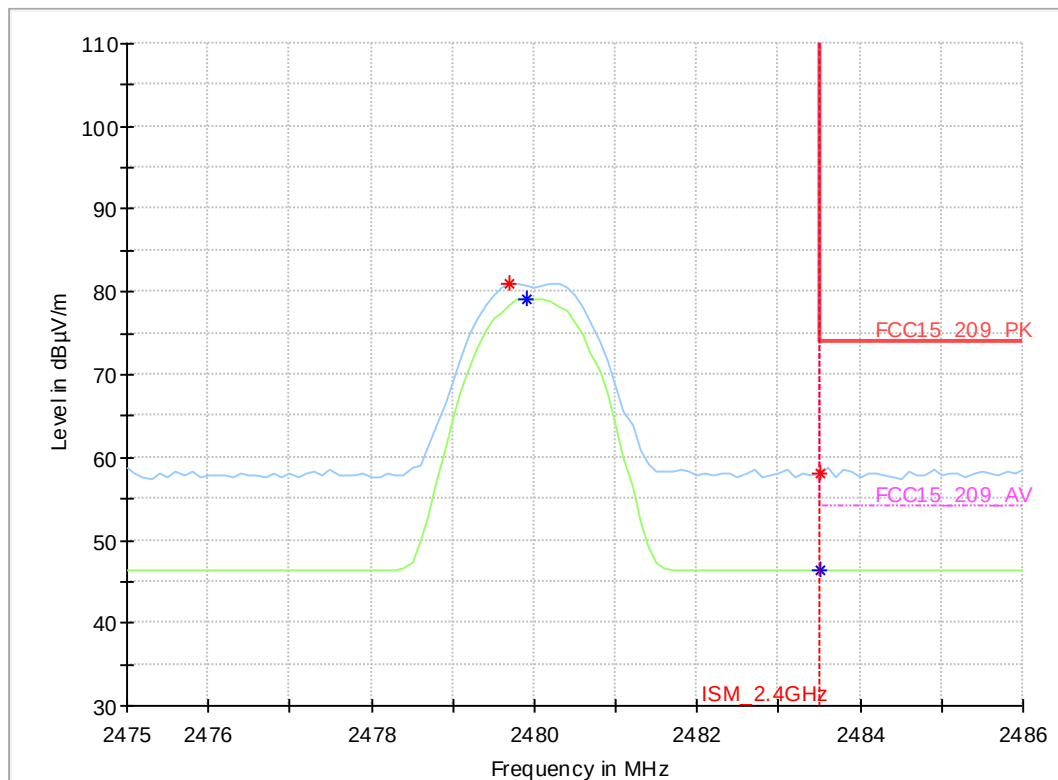
Common Information

Test Description:	Band-Edge: Radiated Field Strength Emissions in 3 m distance
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5
Antenna polarization:	horizontal/vertical
Operating Mode:	BT_High Channel
Operator:	Mah/TFra
Comment:	Channel no.high
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	19-1-00550S104_C01
Manufacturer:	AEV spol. s r.o.

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	RMS (dBμV/m)	Limit (dBμV/m)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Elevation
2479.700000	81.00	---	150.00	69.00	---	---	155.0	V	275.0	90.0
2479.900000	---	79.15	150.00	70.85	---	---	155.0	H	267.0	0.0
2483.500000	---	46.38	54.00	7.62	---	---	155.0	H	104.0	90.0
2483.500000	58.08	---	74.00	15.92	---	---	155.0	H	337.0	0.0

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

Frequency (MHz)	Corr. (dB/m)	Comment
2479.700000	36	09:44:00 - 13.07.2020
2479.900000	36	09:44:02 - 13.07.2020
2483.500000	36	09:44:11 - 13.07.2020
2483.500000	36	09:44:08 - 13.07.2020

End Of Annex 1