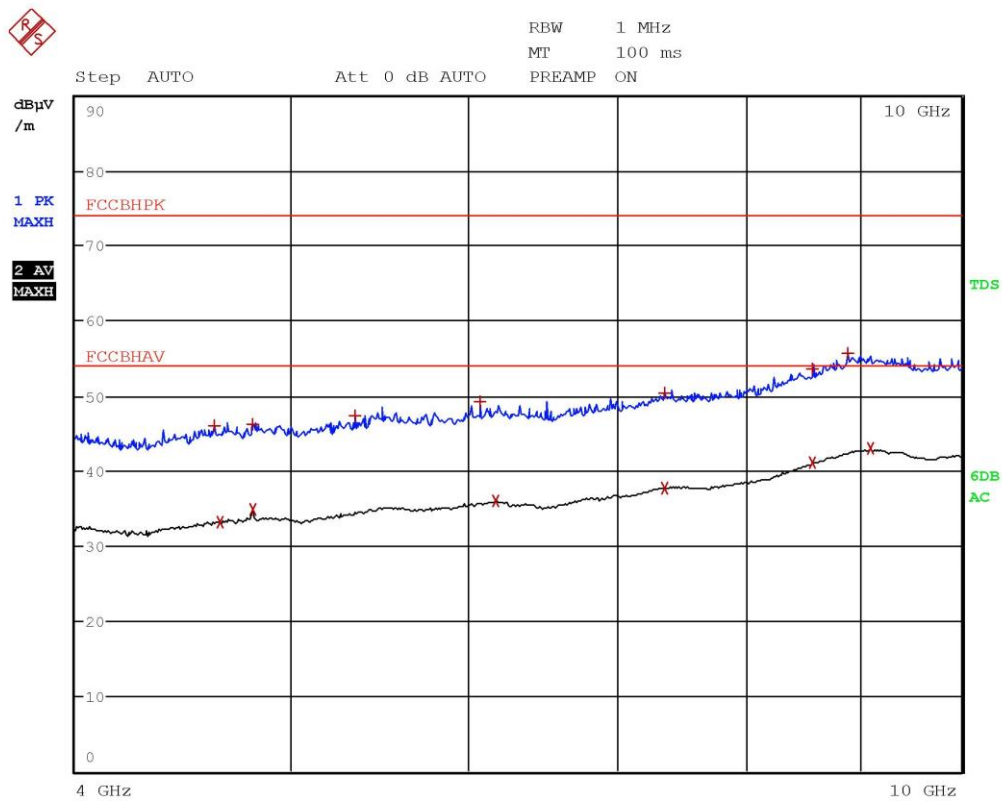


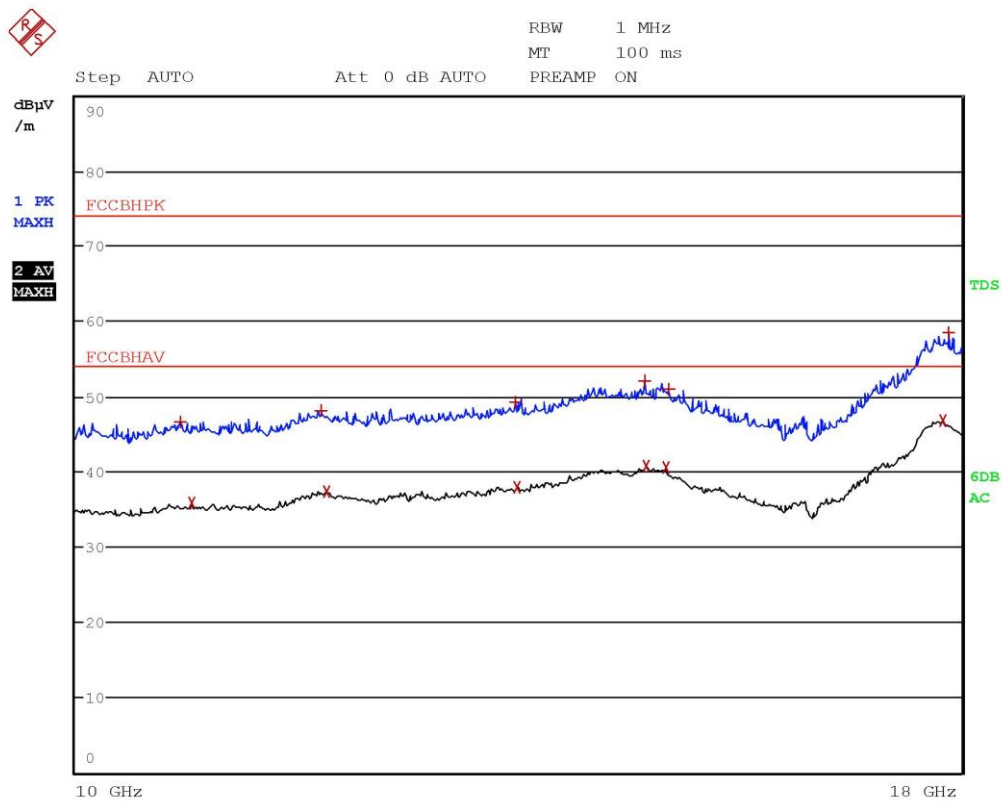


Segalla 19089217



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	4.618 GHz	46.09	-27.88
2 Average	4.6452 GHz	33.26	-20.71
2 Average	4.802 GHz	34.94	-19.03
1 Max Peak	4.802 GHz	46.22	-27.75
1 Max Peak	5.3432 GHz	47.34	-26.63
1 Max Peak	6.0772 GHz	49.33	-24.64
2 Average	6.1804 GHz	36.03	-17.94
2 Average	7.3548 GHz	37.76	-16.21
1 Max Peak	7.358 GHz	50.29	-23.68
2 Average	8.5684 GHz	41.07	-12.91
1 Max Peak	8.57 GHz	53.56	-20.41
1 Max Peak	8.8888 GHz	55.70	-18.27
2 Average	9.1004 GHz	42.93	-11.04

Segalla 19089217

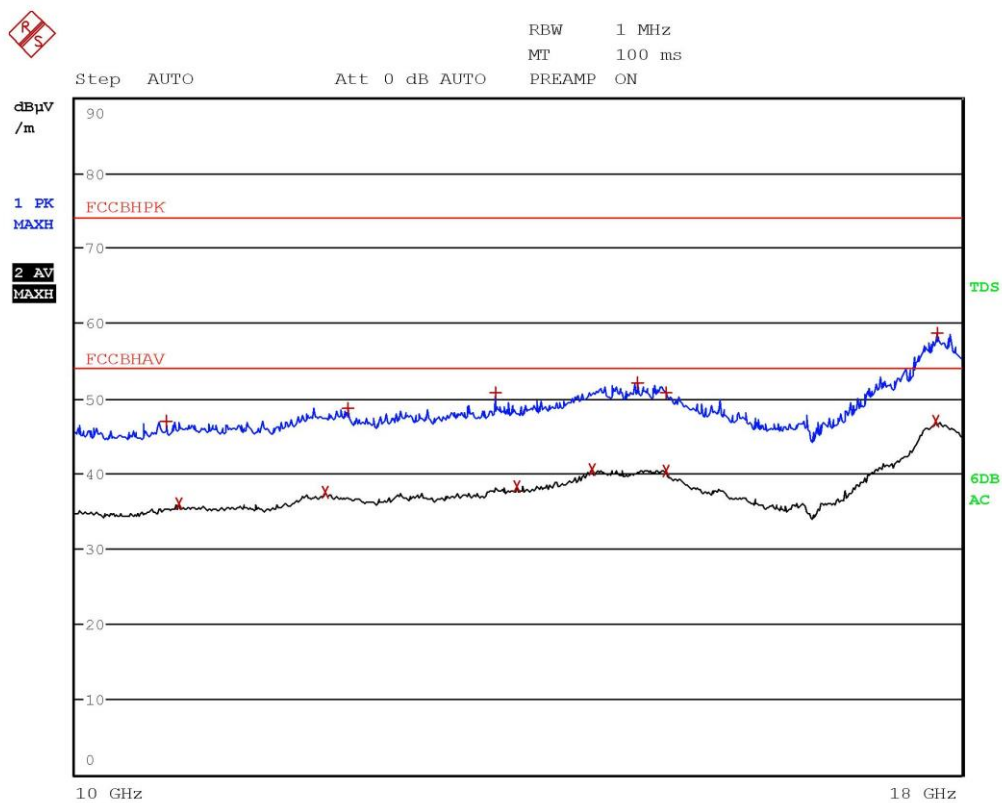


Segalla 19089218



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	10.7168 GHz	46.57	-27.40
2 Average	10.7988 GHz	35.91	-18.06
1 Max Peak	11.7664 GHz	48.19	-25.78
2 Average	11.8168 GHz	37.41	-16.56
1 Max Peak	13.386 GHz	49.21	-24.76
2 Average	13.4056 GHz	37.94	-16.03
1 Max Peak	14.5856 GHz	52.12	-21.85
2 Average	14.6 GHz	40.67	-13.30
2 Average	14.8024 GHz	40.51	-13.46
1 Max Peak	14.8256 GHz	51.04	-22.93
2 Average	17.7744 GHz	46.79	-7.18
1 Max Peak	17.8416 GHz	58.50	-15.47

Segalla 19089218

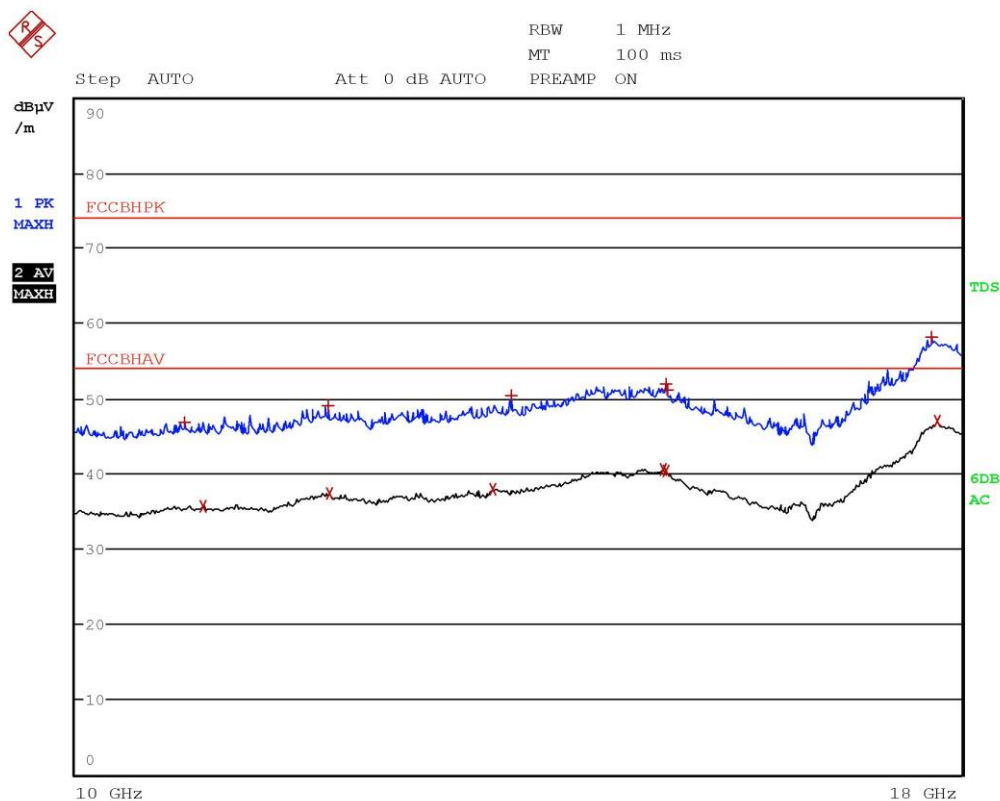


Segalla 19089219



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	10.6216 GHz	46.96	-27.01
2 Average	10.7136 GHz	35.93	-18.04
2 Average	11.8036 GHz	37.62	-16.35
1 Max Peak	11.9856 GHz	48.77	-25.20
1 Max Peak	13.2176 GHz	50.81	-23.16
2 Average	13.3972 GHz	38.21	-15.76
2 Average	14.0856 GHz	40.47	-13.50
1 Max Peak	14.5164 GHz	52.11	-21.86
1 Max Peak	14.798 GHz	50.80	-23.17
2 Average	14.8004 GHz	40.44	-13.53
2 Average	17.696 GHz	46.96	-7.01
1 Max Peak	17.7056 GHz	58.70	-15.27

Segalla 19089219

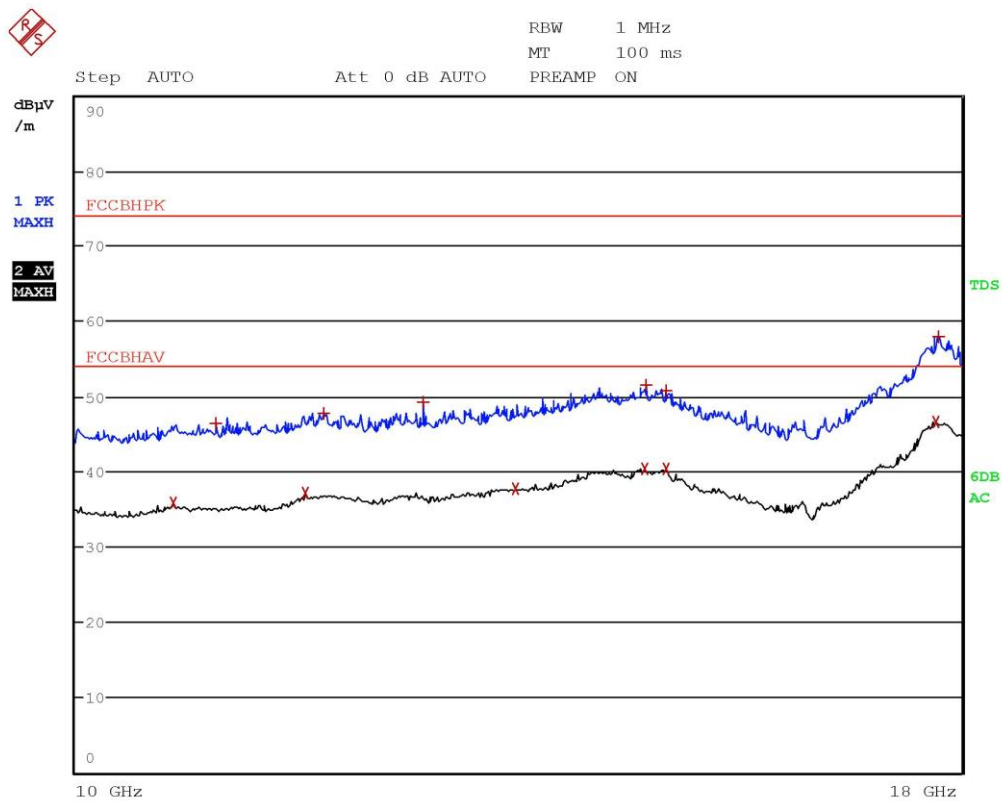


Segalla 19089220



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	10.7504 GHz	46.82	-27.15
2 Average	10.886 GHz	35.67	-18.30
1 Max Peak	11.8228 GHz	49.09	-24.88
2 Average	11.8392 GHz	37.41	-16.56
2 Average	13.1884 GHz	37.93	-16.05
1 Max Peak	13.3484 GHz	50.47	-23.50
2 Average	14.7688 GHz	40.65	-13.32
1 Max Peak	14.7944 GHz	51.93	-22.04
2 Average	14.8004 GHz	40.32	-13.65
1 Max Peak	14.8032 GHz	51.16	-22.81
1 Max Peak	17.6452 GHz	58.21	-15.76
2 Average	17.7088 GHz	46.98	-6.99

Segalla 19089220

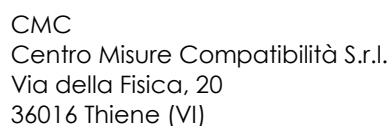


Segalla 19089221

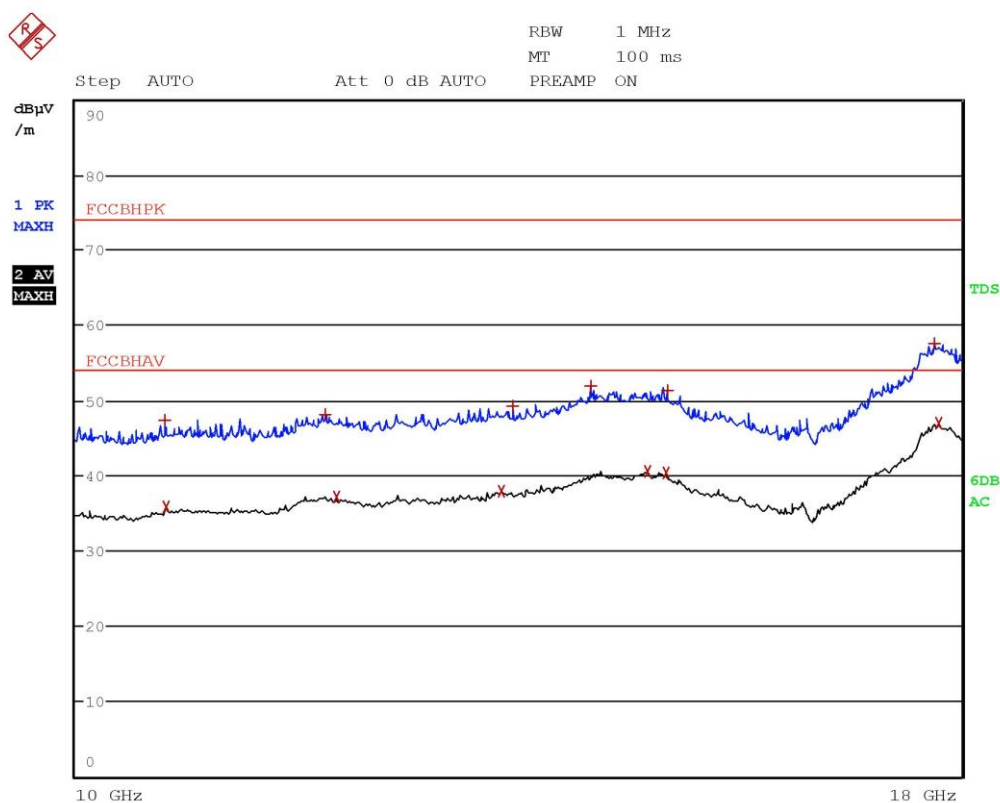


EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
2 Average	10.6676 GHz	35.90	-18.07
1 Max Peak	10.9812 GHz	46.47	-27.50
2 Average	11.6456 GHz	37.08	-16.89
1 Max Peak	11.7872 GHz	47.77	-26.20
1 Max Peak	12.59 GHz	49.24	-24.74
2 Average	13.3912 GHz	37.67	-16.30
2 Average	14.5856 GHz	40.36	-13.61
1 Max Peak	14.6076 GHz	51.52	-22.45
2 Average	14.802 GHz	40.38	-13.59
1 Max Peak	14.8036 GHz	50.70	-23.27
2 Average	17.7032 GHz	46.67	-7.30
1 Max Peak	17.7332 GHz	57.89	-16.08

Segalla 19089221



LAB N° 0168

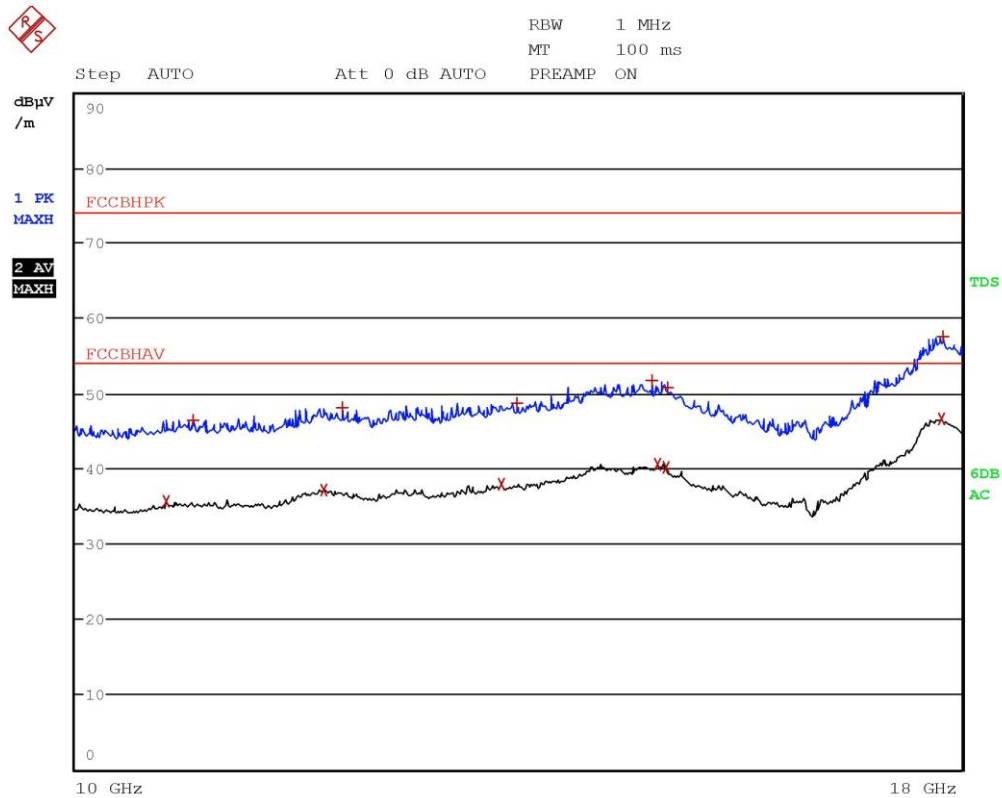


Segalla 19089222



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	10.61 GHz	47.29	-26.68
2 Average	10.624 GHz	35.74	-18.23
1 Max Peak	11.8056 GHz	48.07	-25.90
2 Average	11.89 GHz	37.17	-16.80
2 Average	13.268 GHz	37.86	-16.11
1 Max Peak	13.3632 GHz	49.26	-24.71
1 Max Peak	14.0824 GHz	51.88	-22.09
2 Average	14.6224 GHz	40.59	-13.38
2 Average	14.7992 GHz	40.32	-13.65
1 Max Peak	14.808 GHz	51.36	-22.61
1 Max Peak	17.6848 GHz	57.65	-16.33
2 Average	17.7352 GHz	46.93	-7.04

Segalla 19089222

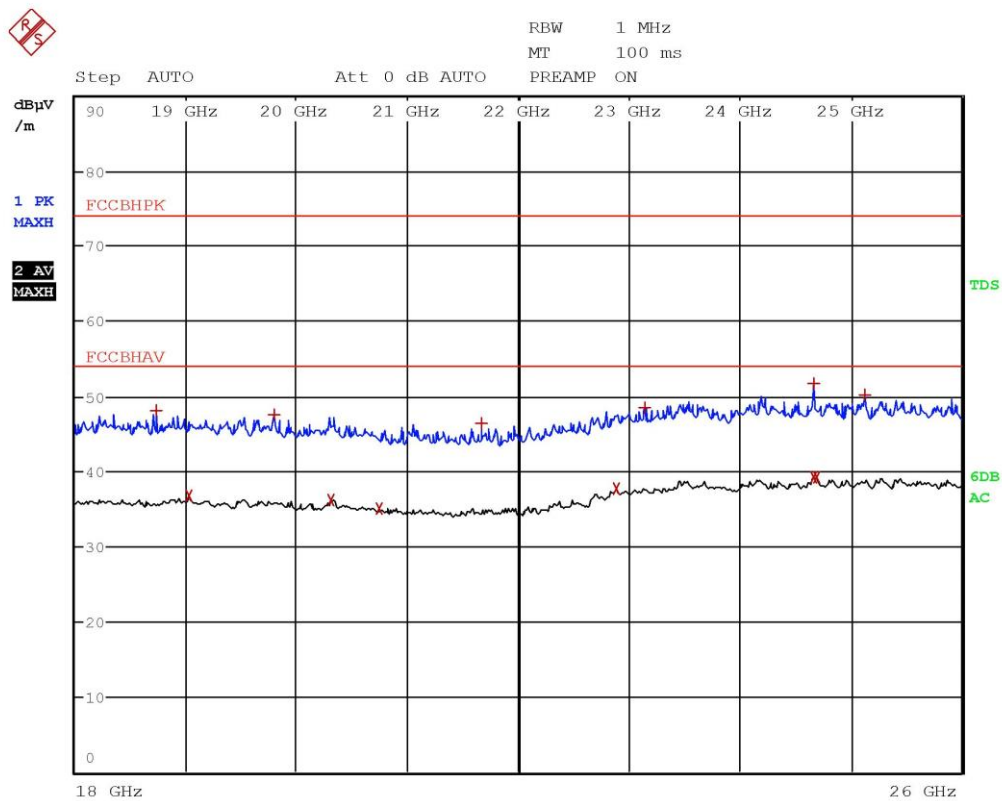


Segalla 19089223



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
2 Average	10.6236 GHz	35.55	-18.42
1 Max Peak	10.81 GHz	46.47	-27.50
2 Average	11.7912 GHz	37.23	-16.75
1 Max Peak	11.9376 GHz	48.20	-25.77
2 Average	13.2664 GHz	37.91	-16.06
1 Max Peak	13.4004 GHz	48.72	-25.25
1 Max Peak	14.6544 GHz	51.73	-22.25
2 Average	14.7196 GHz	40.55	-13.43
2 Average	14.8 GHz	40.08	-13.89
1 Max Peak	14.8072 GHz	50.74	-23.23
2 Average	17.76 GHz	46.56	-7.41
1 Max Peak	17.7868 GHz	57.59	-16.38

Segalla 19089223

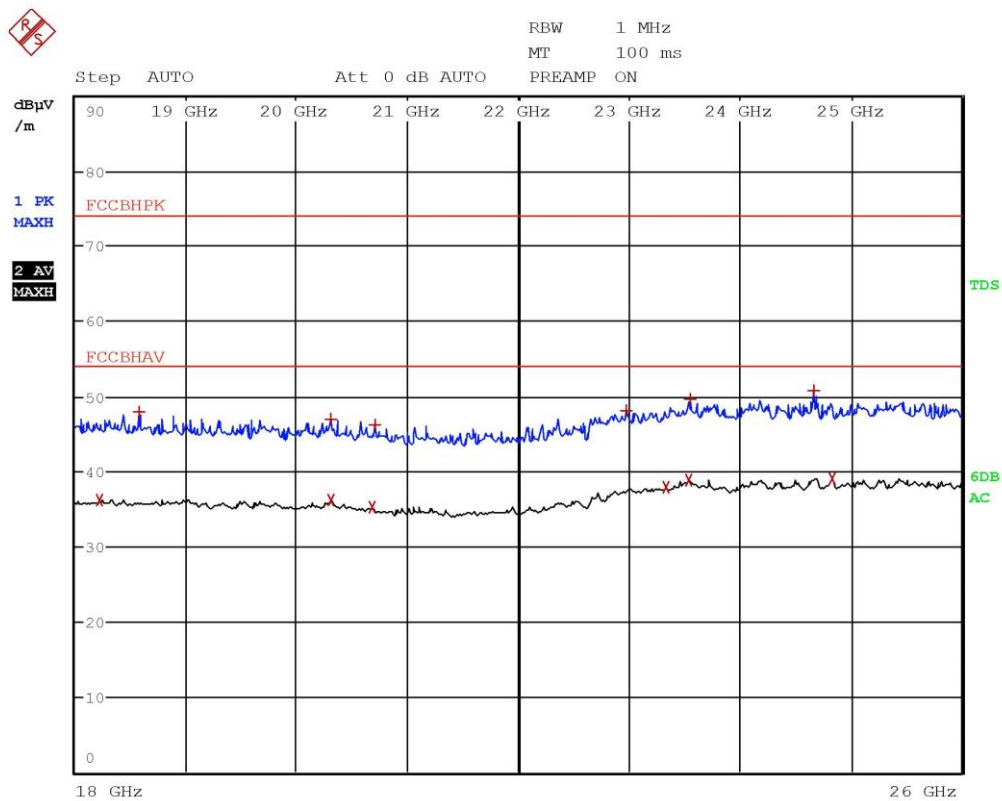


Segalla 19089224



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	18.7252 GHz	48.02	-25.95
2 Average	19.0292 GHz	36.70	-17.27
1 Max Peak	19.7904 GHz	47.60	-26.37
2 Average	20.3096 GHz	36.26	-17.71
2 Average	20.7432 GHz	35.11	-18.86
1 Max Peak	21.6708 GHz	46.50	-27.47
2 Average	22.8824 GHz	37.77	-16.20
1 Max Peak	23.144 GHz	48.56	-25.41
1 Max Peak	24.6616 GHz	51.79	-22.18
2 Average	24.662 GHz	39.24	-14.73
2 Average	24.6948 GHz	39.17	-14.80
1 Max Peak	25.1228 GHz	50.21	-23.76

Segalla 19089224



Segalla 19089225



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
2 Average	18.2112 GHz	36.25	-17.72
1 Max Peak	18.5828 GHz	47.86	-26.11
2 Average	20.3036 GHz	36.11	-17.86
1 Max Peak	20.3088 GHz	47.00	-26.97
2 Average	20.6776 GHz	35.19	-18.78
1 Max Peak	20.706 GHz	46.20	-27.77
1 Max Peak	22.9712 GHz	48.03	-25.94
2 Average	23.3324 GHz	37.96	-16.01
2 Average	23.5364 GHz	38.91	-15.06
1 Max Peak	23.5448 GHz	49.54	-24.44
1 Max Peak	24.668 GHz	50.67	-23.30
2 Average	24.8268 GHz	39.03	-14.94

Segalla 19089225

Result: The requirements are met



11.3 DTS bandwidth

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247 (a) (2)
- ANSI C63.10 cl. 11.8
- KDB 558074 D01 15.247 Meas Guidance v05r02 cl. 8.2
- Internal procedure PM001
- See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test configuration and test method

Test site:
Semi-anechoic chamber

Auxiliary equipment:
See clause 4 of this test report

Test equipment used

CMC S108, CMC S164, CMC S271, CMC S287
Measurement uncertainty: See clause 7 of this test report

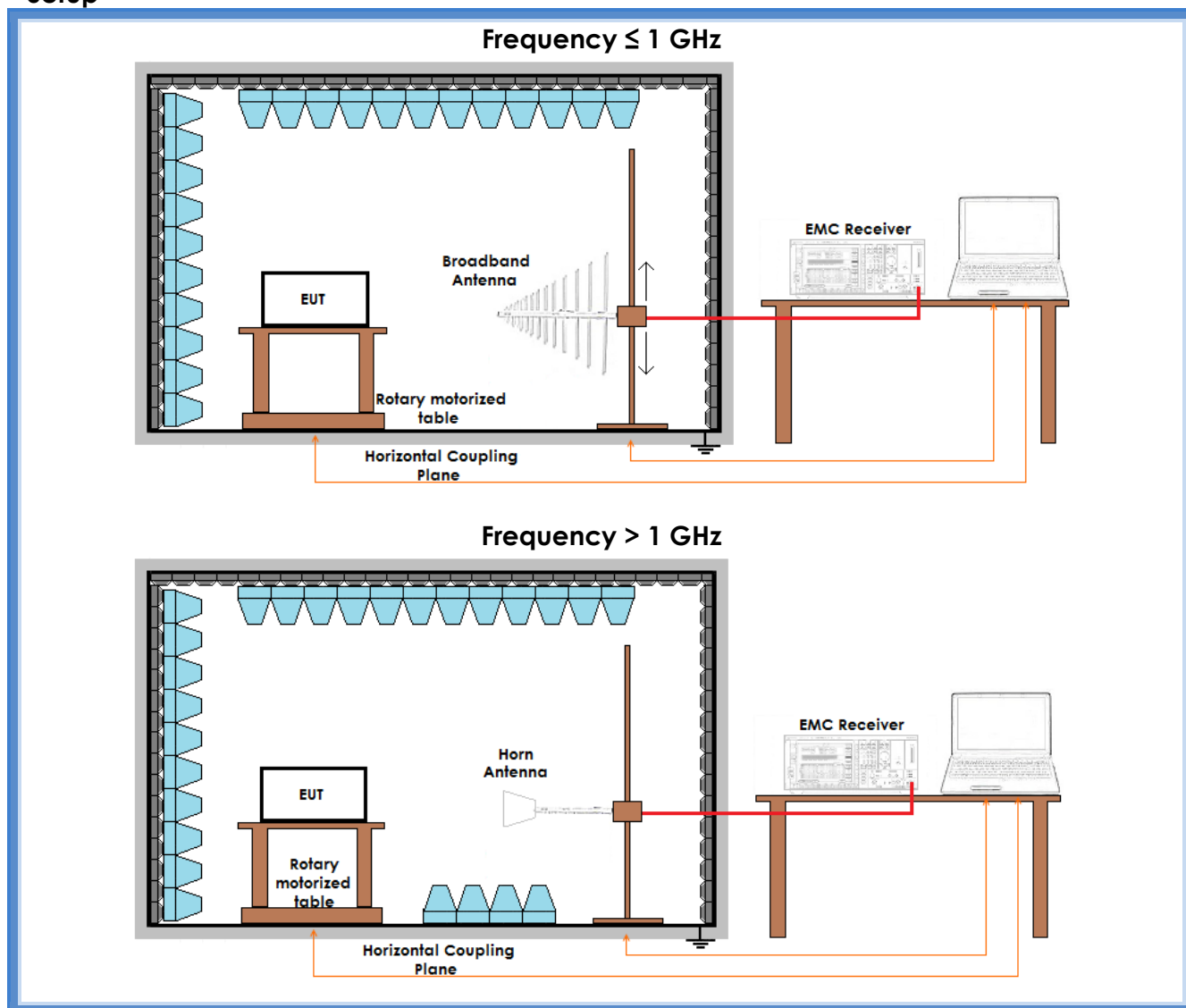
Test specification

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
22	100	45

Setup

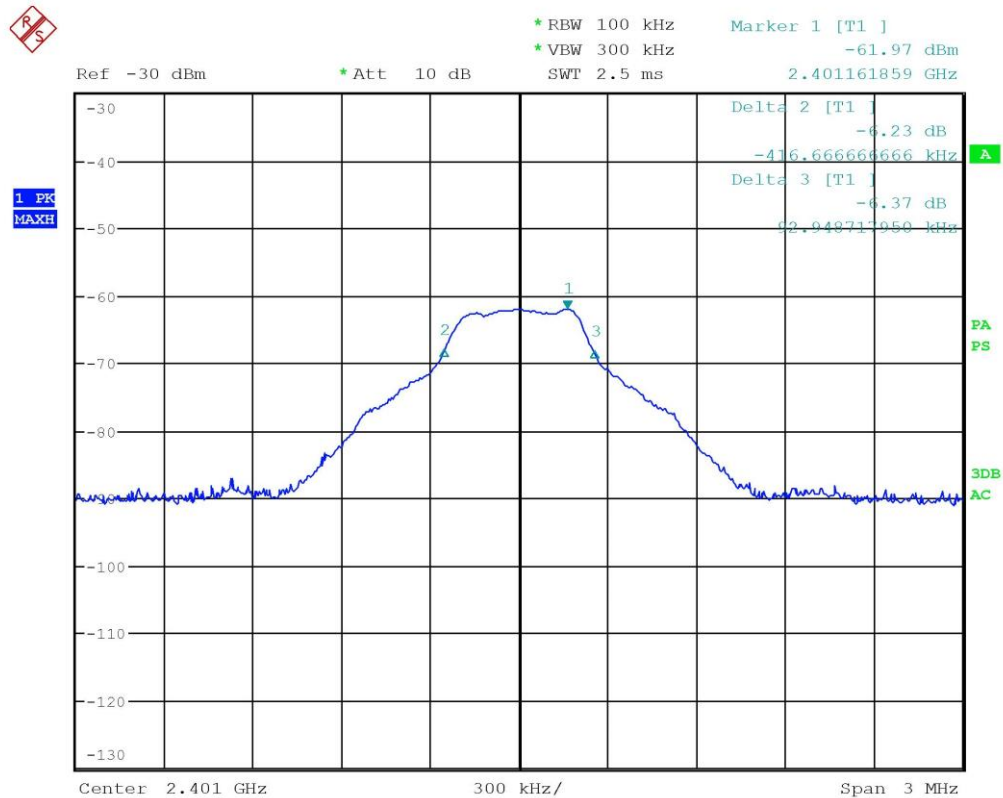


Result

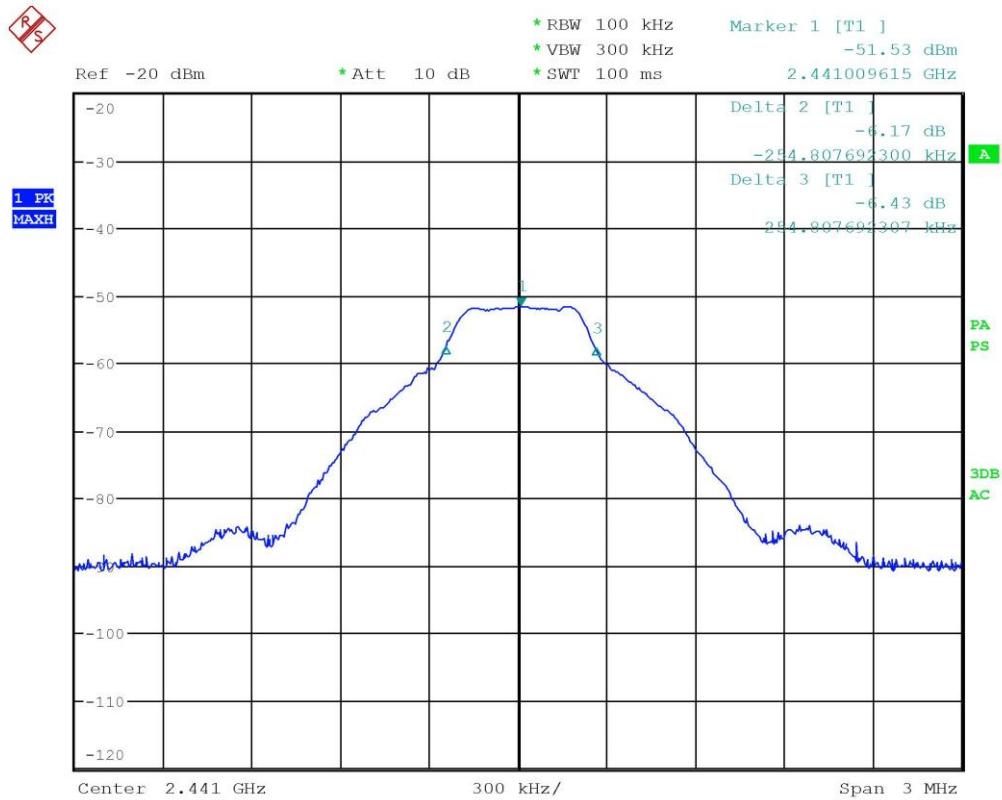
Channel	Graphs	6 dB bandwidth (kHz)	Limits (kHz)	Results
Lowest	G19089230	509,615	At least 500	Complies
Medium	G19089235	509,615	At least 500	Complies
Highest	G19089242	509,615	At least 500	Complies



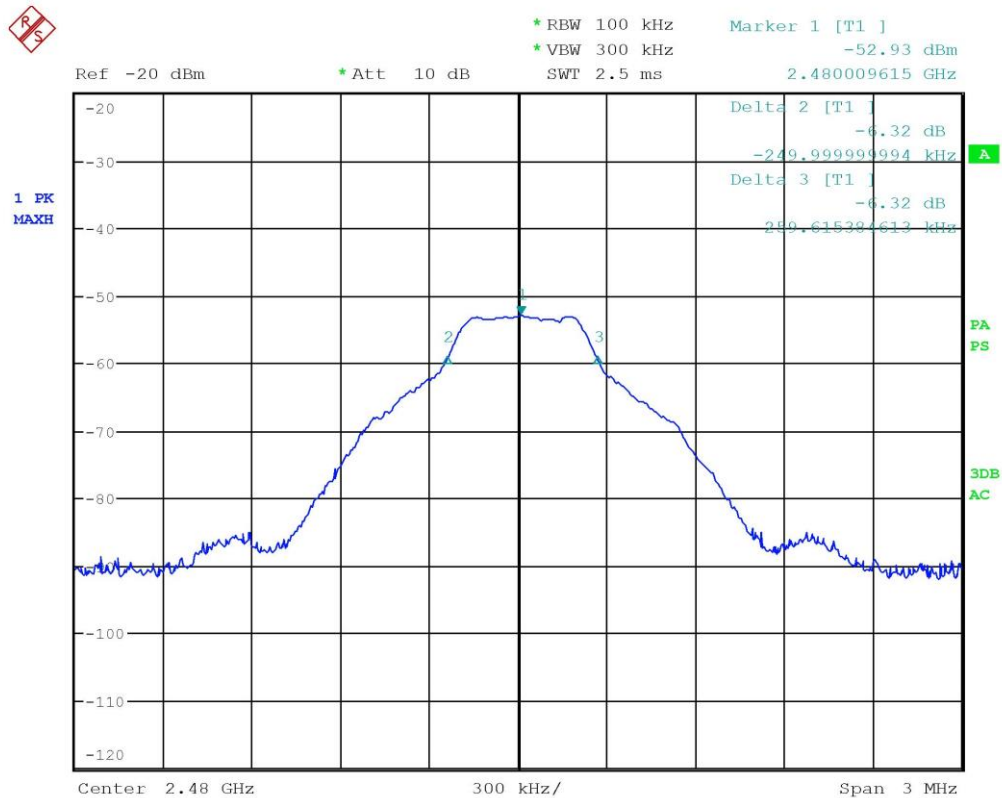
Graphs



Segalla 19089230



Segalla 19089235



Segalla 19089242

Result: The requirements are met



11.4 Band edge

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.205, 15.209, 15.247 (d)
- ANSI C63.10 cl. 11.11.1 and 11.12.1
- KDB 558074 D01 15.247 Meas Guidance v05r02 cl. 8.7
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
Semi-anechoic chamber

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S164, CMC S271, CMC S287
Measurement uncertainty: See clause 7 of this test report

Test specification

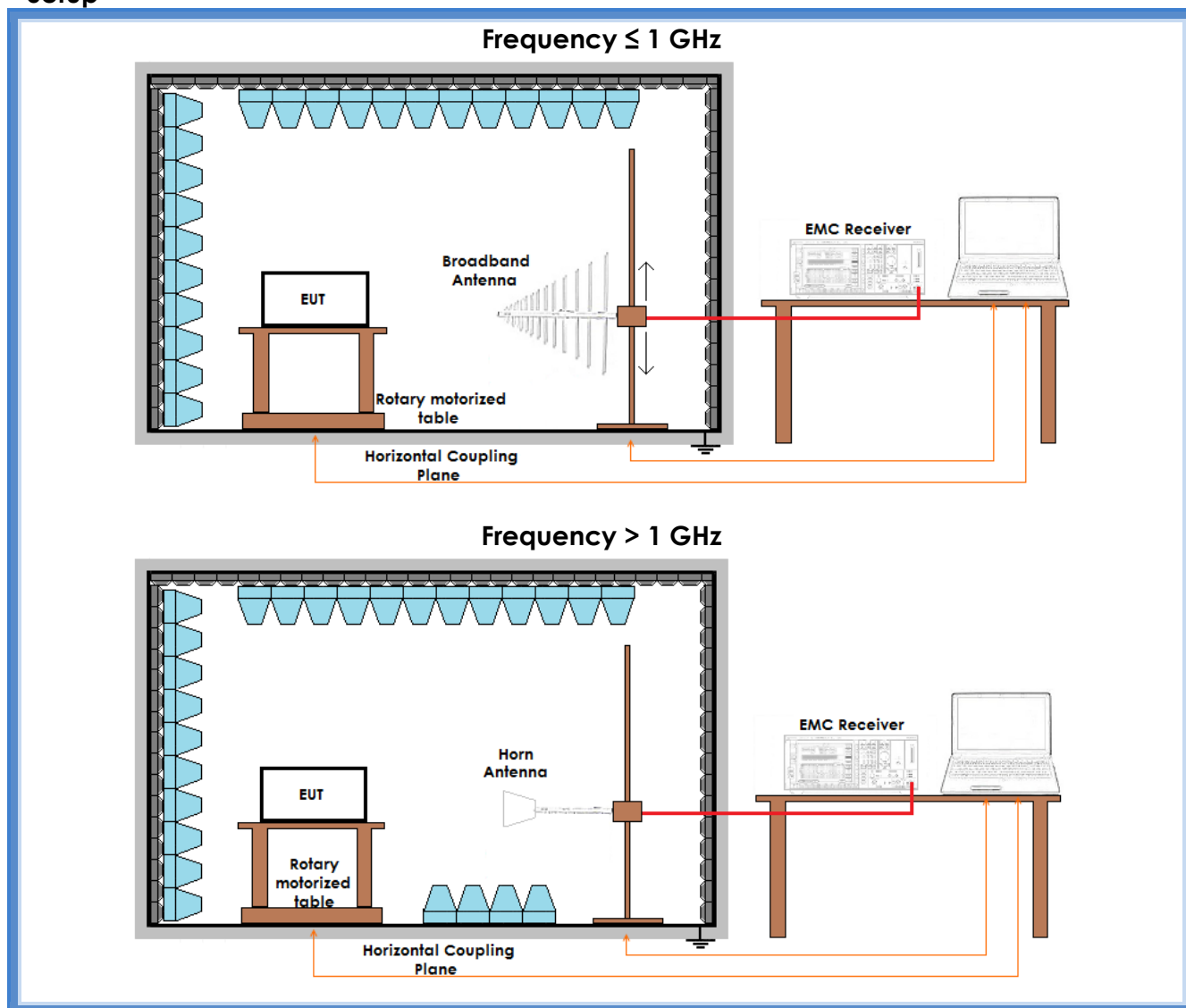
See FCC Part 15.247
EUT height about the floor: 150 cm
EUT – Antenna distance: 3 m

Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
21	100	45

Acceptance limits: operation within the band 2400 – 2483,5 MHz

Setup



Result

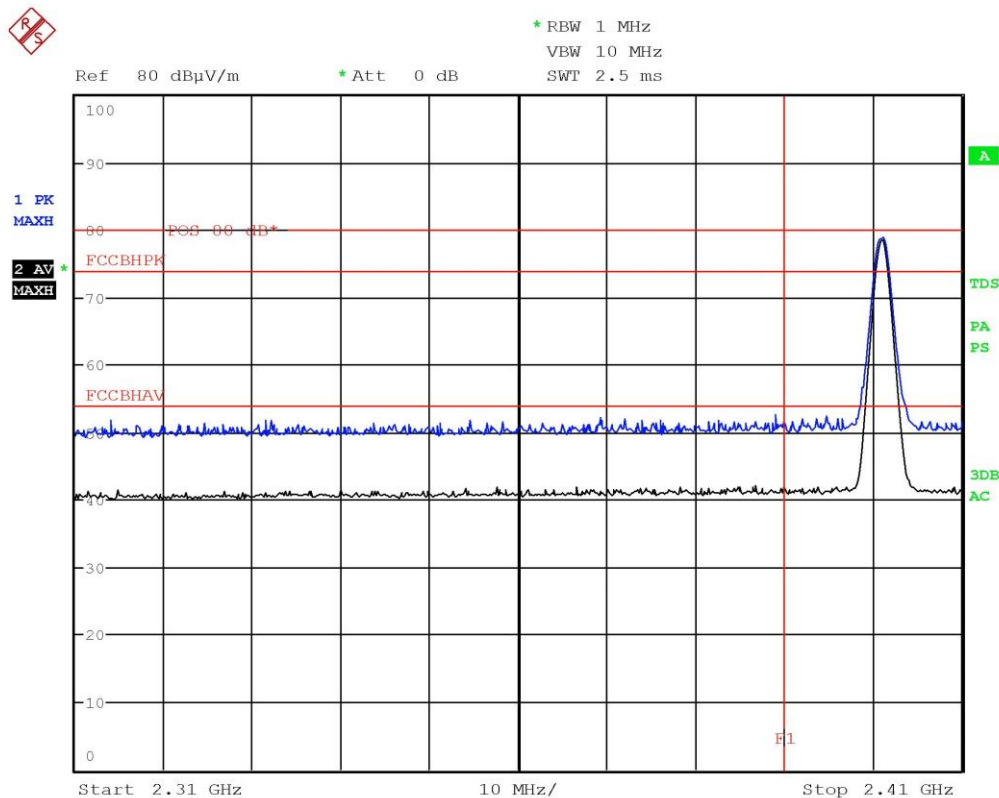
Channel	Bandwidth	Graph(s)	Results	
Lowest	1 MHz	G19089228*	--	Complies
Lowest	100 kHz	G19089229	2400,4166 MHz	Complies
Highest	1 MHz	G19089240	2482,6346 MHz	Complies
Highest	1 MHz	G19089241**		Complies

*: this graph shows the emissions in 2310 – 2390 MHz restricted band

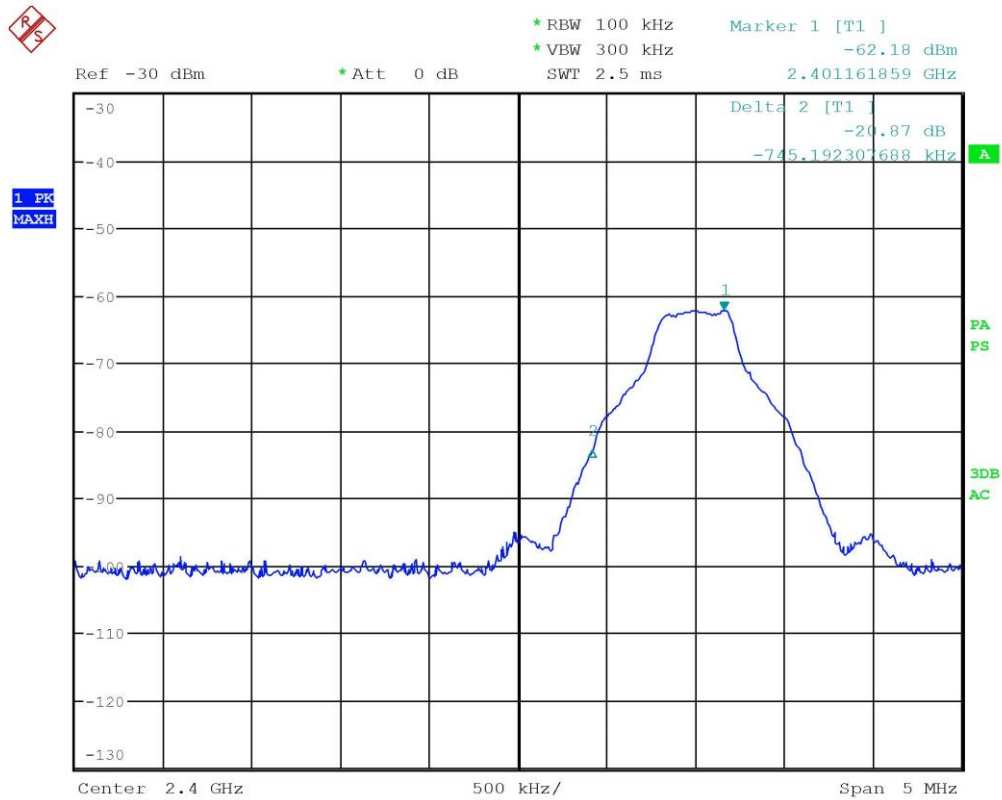
** : this graph shows the emissions in 2483,5 – 2500 MHz restricted band



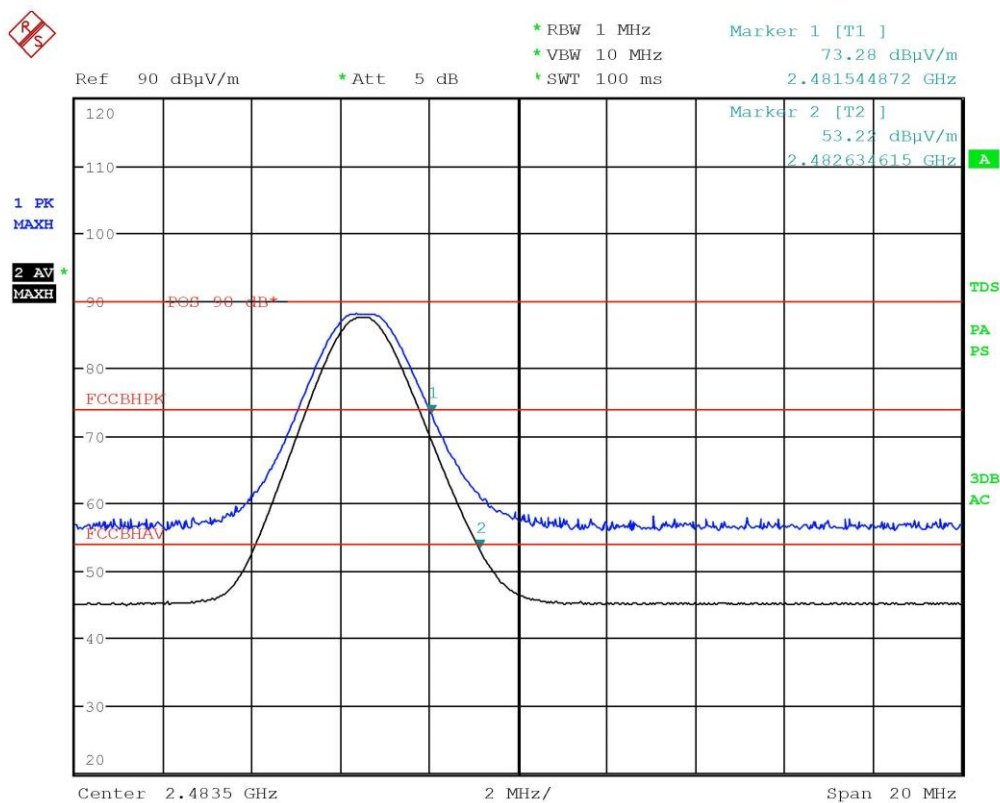
Graphs



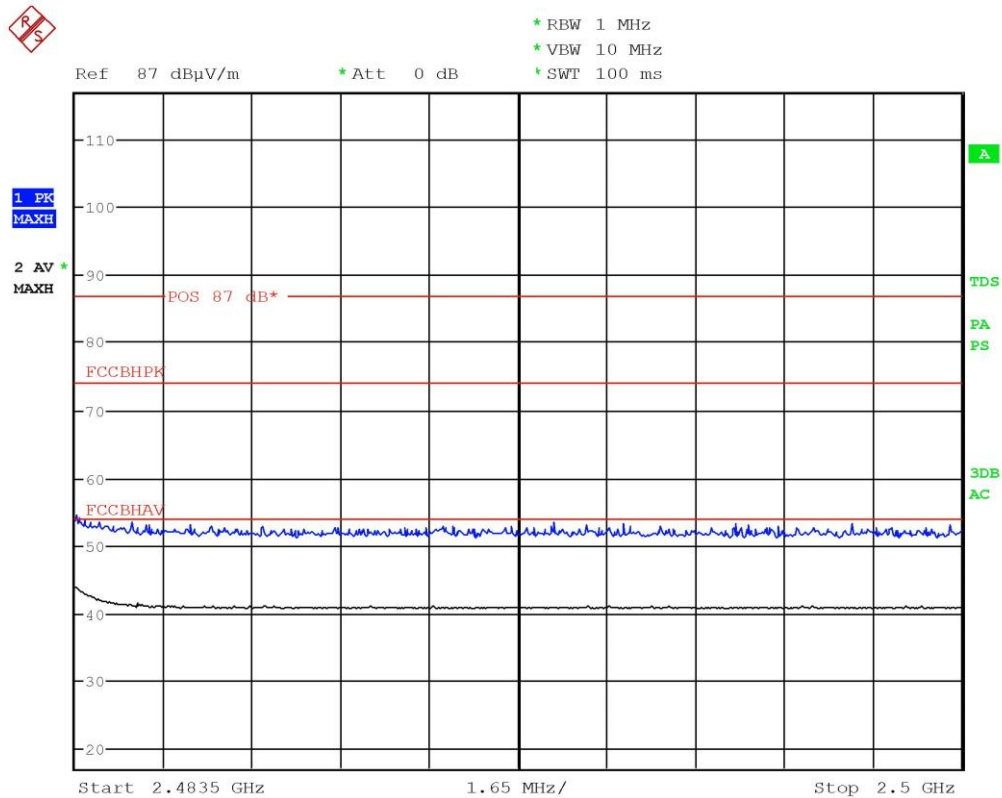
Segalla 19089228



Segalla 19089229



Segalla 19089240



Segalla 19089241

Result: The requirements are met



11.5 Fundamental emission output power

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247 (b) (3)
- ANSI C63.10 cl. 11.9.1.1
- KDB 558074 D01 15.247 Meas Guidance v05r02 cl. 8.3.1.1
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
Semi-anechoic chamber

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S164, CMC S271, CMC S287
Measurement uncertainty: See clause 7 of this test report

Test specification

Port: Enclosure
Antenna polarization: Horizontal (H) – Vertical (V)
EUT – Antenna distance: 3 m
EUT height about the floor: 80 cm

Environmental conditions

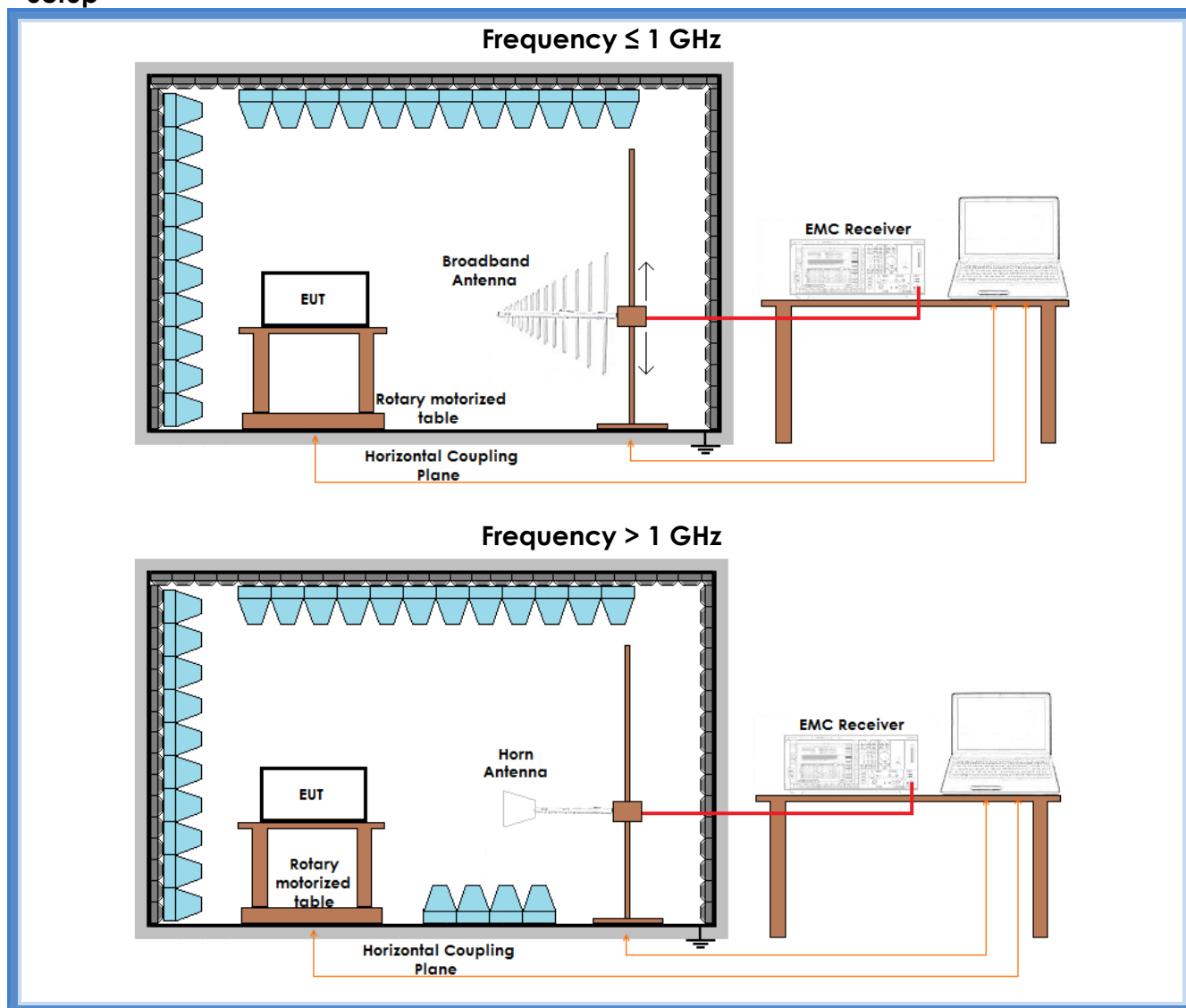
Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
22	100	42

Acceptance limits:

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt



Setup





Result

Channel	Polarization	Graphs	Measured PK level (dBμV/m)	Peak Output Conducted Power (mW)	Limits (mW)
Lowest	Worst case	G19089250	80,62	0,035	1000
Medium	Worst case	G19089251	89,85	0,290	1000
Highest	Worst case	G19089252	88,96	0,236	1000

Conducted value = $(E \times d)^2 / (30 \times G)$

Where:

E = $(10^{(dB\mu V/m)/20})/1000000$, the maximum measured fundamental field strength in V/m

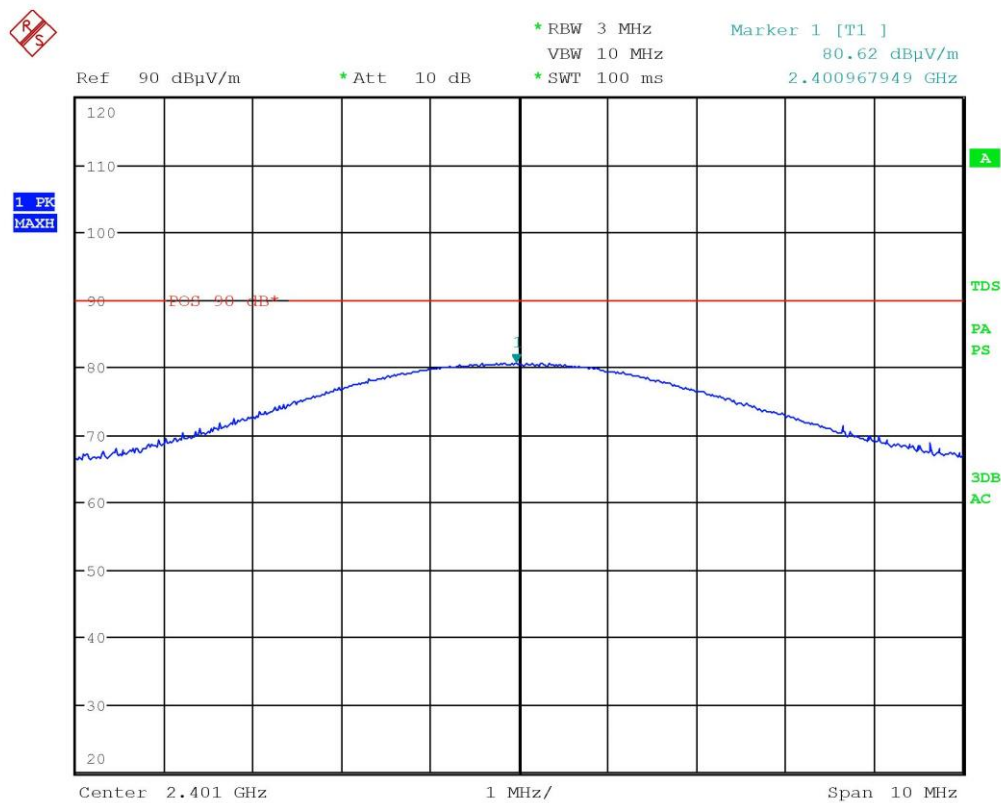
G = $10^{dBi/10}$, the numeric gain of the transmitting antenna: 1 (0 dBi)

d = the distance in meters from which the field strength was measured (3 m)

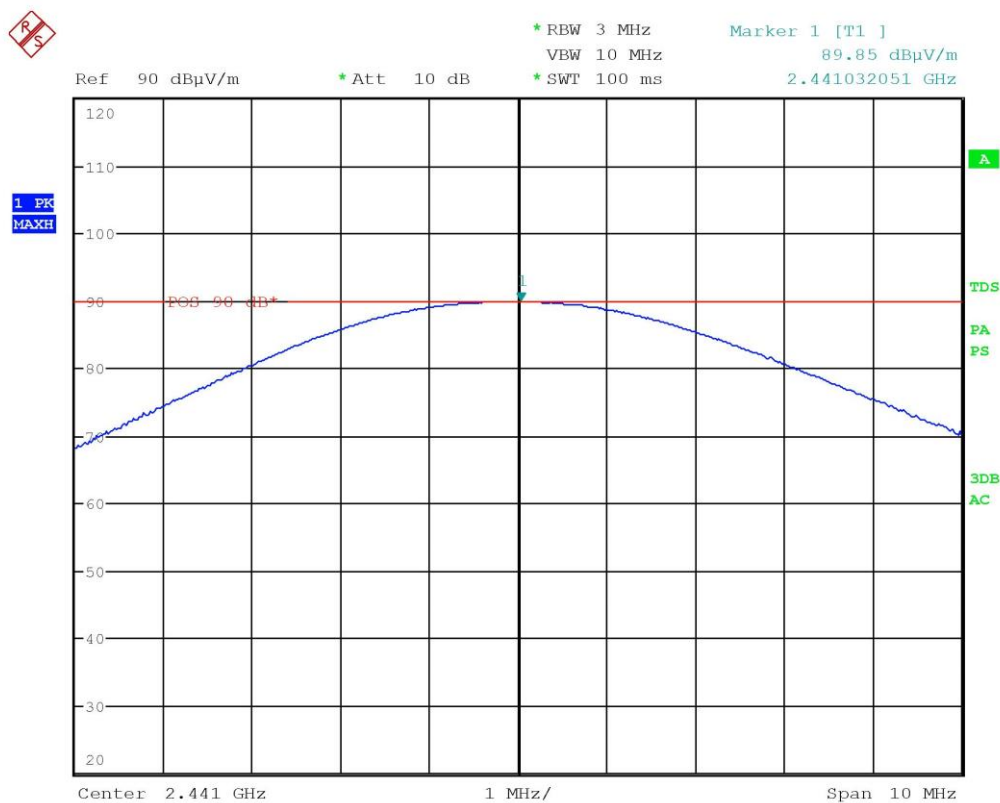
P = the power in watts



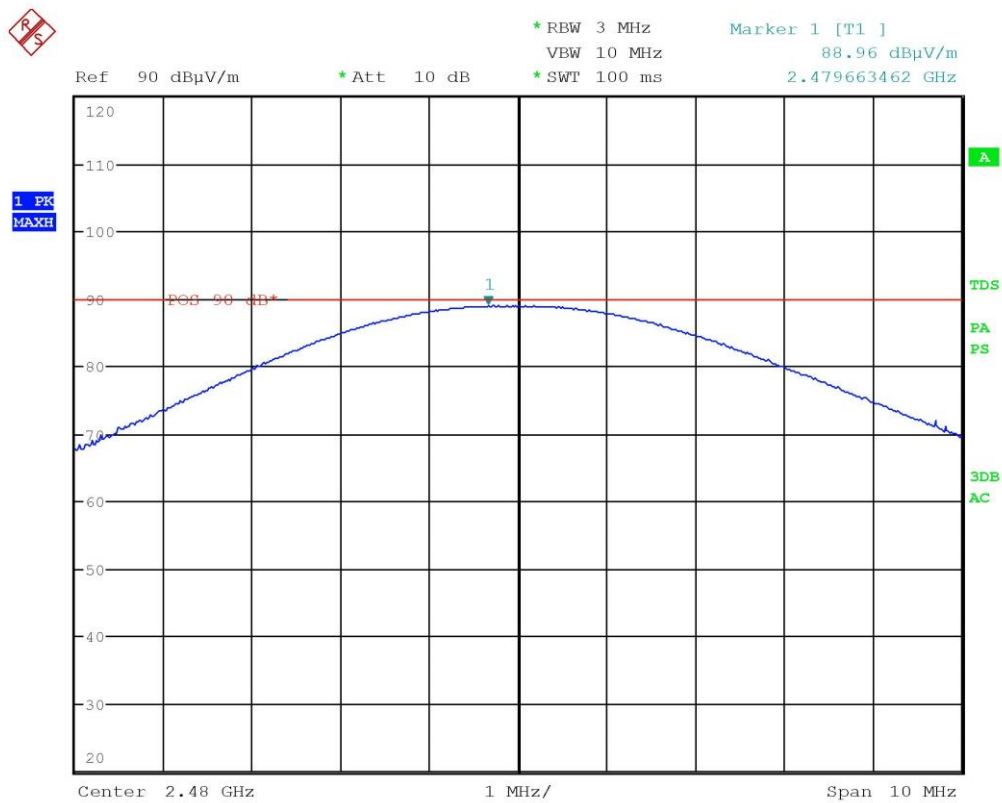
Graphs



Segalla 19089250



Segalla 19089251



Segalla 19089252

Result: The requirements are met



11.6 Maximum power spectral density level in the fundamental emission

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247 (e)
- ANSI C63.10 cl. 11.10.2
- KDB 558074 D01 15.247 Meas Guidance v05r02 cl. 8.4
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
Semi-anechoic chamber

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S164, CMC S271, CMC S287
Measurement uncertainty: See clause 7 of this test report

Test specification

Port: Enclosure
Antenna polarization: Horizontal (H) – Vertical (V)
EUT – Antenna distance: 3 m
EUT height about the floor: 80 cm

Environmental conditions

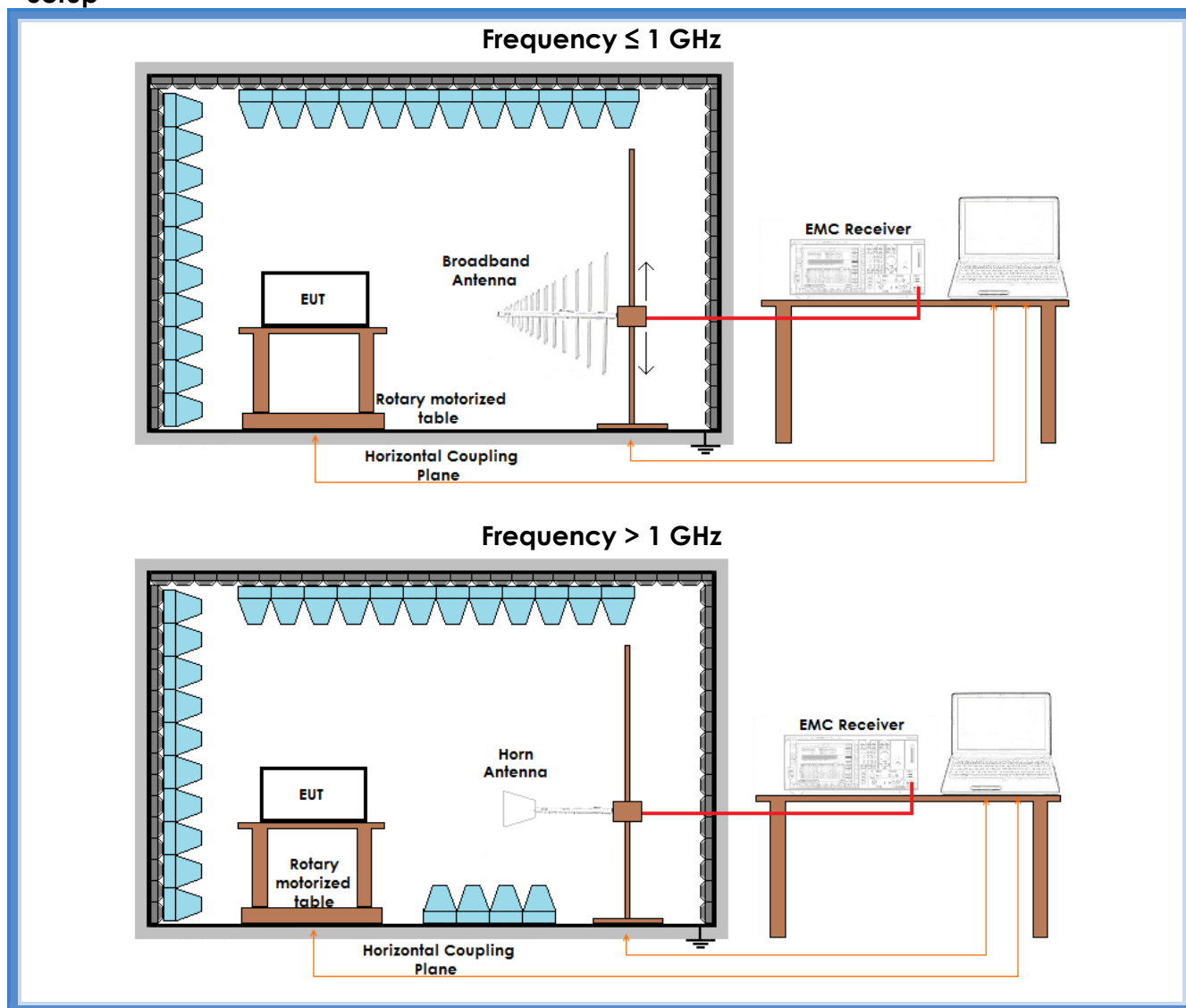
Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
22	100	42

Acceptance limits:

Frequency Range	Power Spectral Density
2400 – 2483,5 MHz	8 dBm/3 kHz 6,31 mW/3 kHz



Setup





Result

Channel	Polarization	Graphs	Measured PK level (dB μ V/m)	Power Spectral Density (mW/3 kHz)	Limits (mW/3 kHz)
Lowest	Worst case	G19089227	78,43	0,021	6,31
Medium	Worst case	G19089234	88,80	0,228	6,31
Highest	Worst case	G19089239	87,52	0,169	6,31

Conducted value = $(E \times d)^2 / (30 \times G)$

Where:

E = $(10^{(\text{dB}\mu\text{V/m})/20})/1000000$, the maximum measured fundamental field strength in V/m

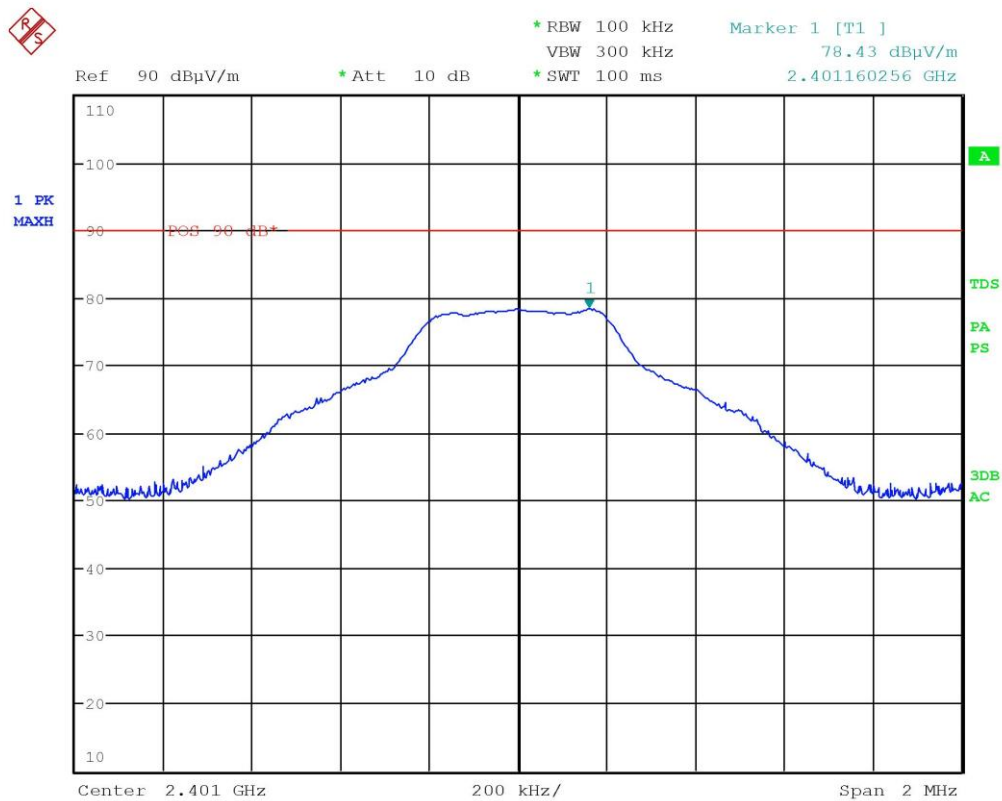
G = $10^{\text{dBi}/10}$, the numeric gain of the transmitting antenna: 1 (0 dBi)

d = the distance in meters from which the field strength was measured (3 m)

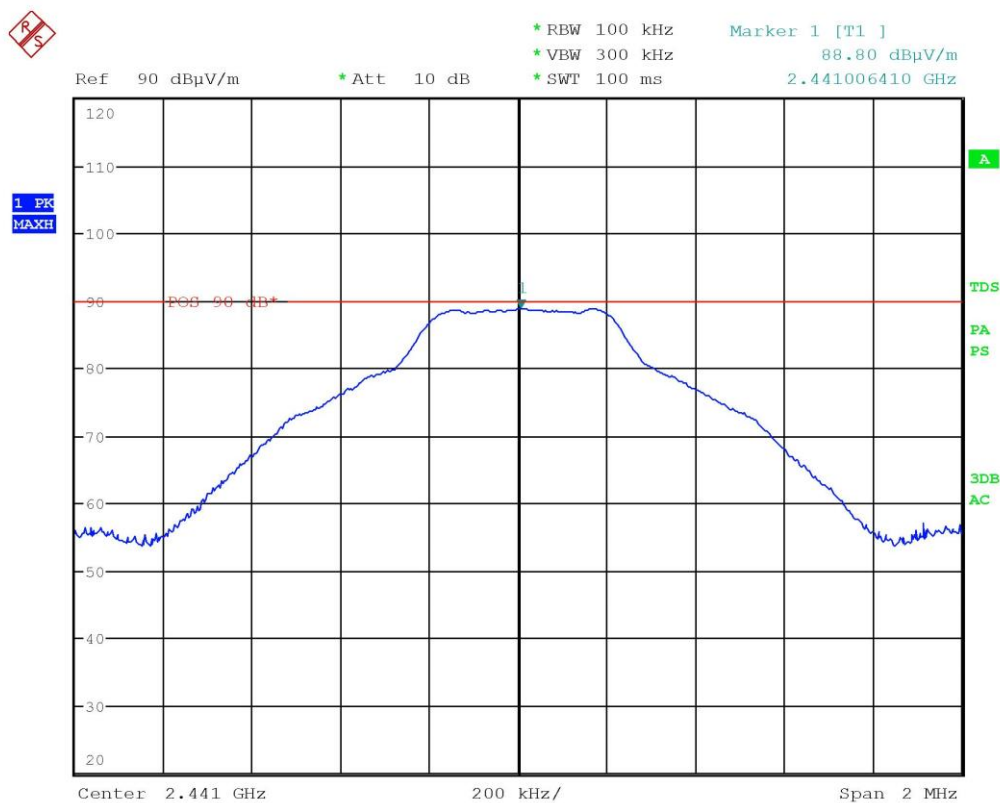
P = the power in watts



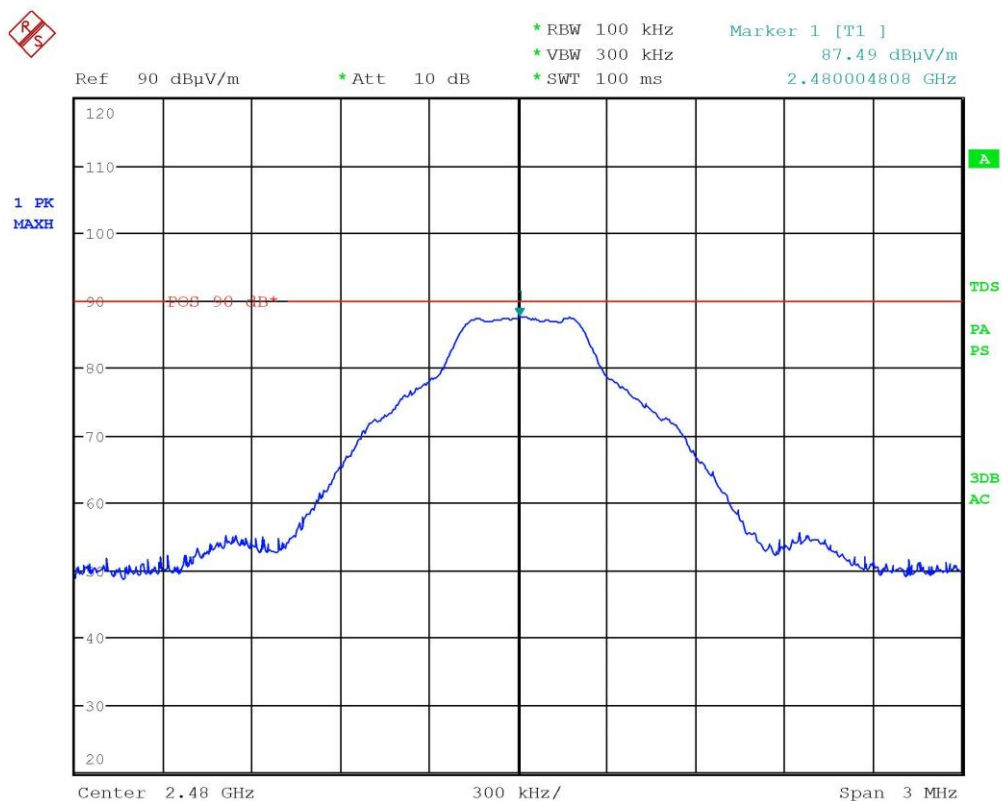
Graphs



Segalla 19089227



Segalla 19089234



Segalla 19089239

Result: The requirements are met



11.7 Spurious Emission

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part. 15.247 (d)
- KDB 558074 D01 15.247 Meas Guidance v05r02 cl. 8.5 and 8.6
- ANSI C63.10 cl. 11.11, 11.12.1
- Internal procedure PM001
- See clause 4 of this test report

Test configuration

Test site:
Semi-anechoic chamber

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S164
Measurement uncertainty: See clause 7 of this test report

Test specification

Port: Enclosure
Antenna polarization: Horizontal (H) – Vertical (V)
EUT height about the floor: 150 cm
EUT – Antenna distance: 3 m
Detector AV + Peak

Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
22	100	45

Acceptance limits

Acceptance limits for emissions in restricted frequency bands (according FCC Part 15.209)		
Frequency (MHz)	AV limits [dB(μV/m)]	Peak limits [dB(μV/m)]
> 1000	54	74



The restricted frequency bands are listed in the following table (according to FCC Part 15.205)

MHz	MHz	MHz	GHz
0,09 – 0,110	16,42 – 16,423	399,9 – 410	4,5 – 5,15
0,495 – 0,505	16,69475 – 16,69525	608 – 614	5,35 – 5,46
2,1735 – 2,1905	16,80425 – 16,80475	960 – 1240	7,25 – 7,75
4,125 – 4,128	25,5 – 25,67	1300 – 1427	8,025 – 8,5
4,17725 – 4,17775	37,5 – 38,25	1435 – 1626,5	9,0 – 9,2
4,20725 – 4,20775	73 – 74,6	1645,5 – 1646,5	9,3 – 9,5
6,215 – 6,218	74,8 – 75,2	1660 – 1710	10,6 – 12,7
6,26775 – 6,26825	108 – 121,94	1718,8 – 1722,2	13,25 – 13,4
6,31175 – 6,31225	123 – 138	2200 – 2300	14,47 – 14,5
8,291 – 8,294	149,9 – 150,05	2310 – 2390	15,35 – 16,2
8,362 – 8,366	156,52475 – 156,52525	2483,5 – 2500	17,7 – 21,4
8,41425 – 8,41475	162,0125 – 167,17	3260 – 3267	23,6 – 24
12,29 – 12,293	167,72 – 173,2	3332 – 3339	31,2 – 31,8
12,57675 – 12,57725	322 – 335,4	3600 – 4400	Above 38,6
13,36 – 13,41			

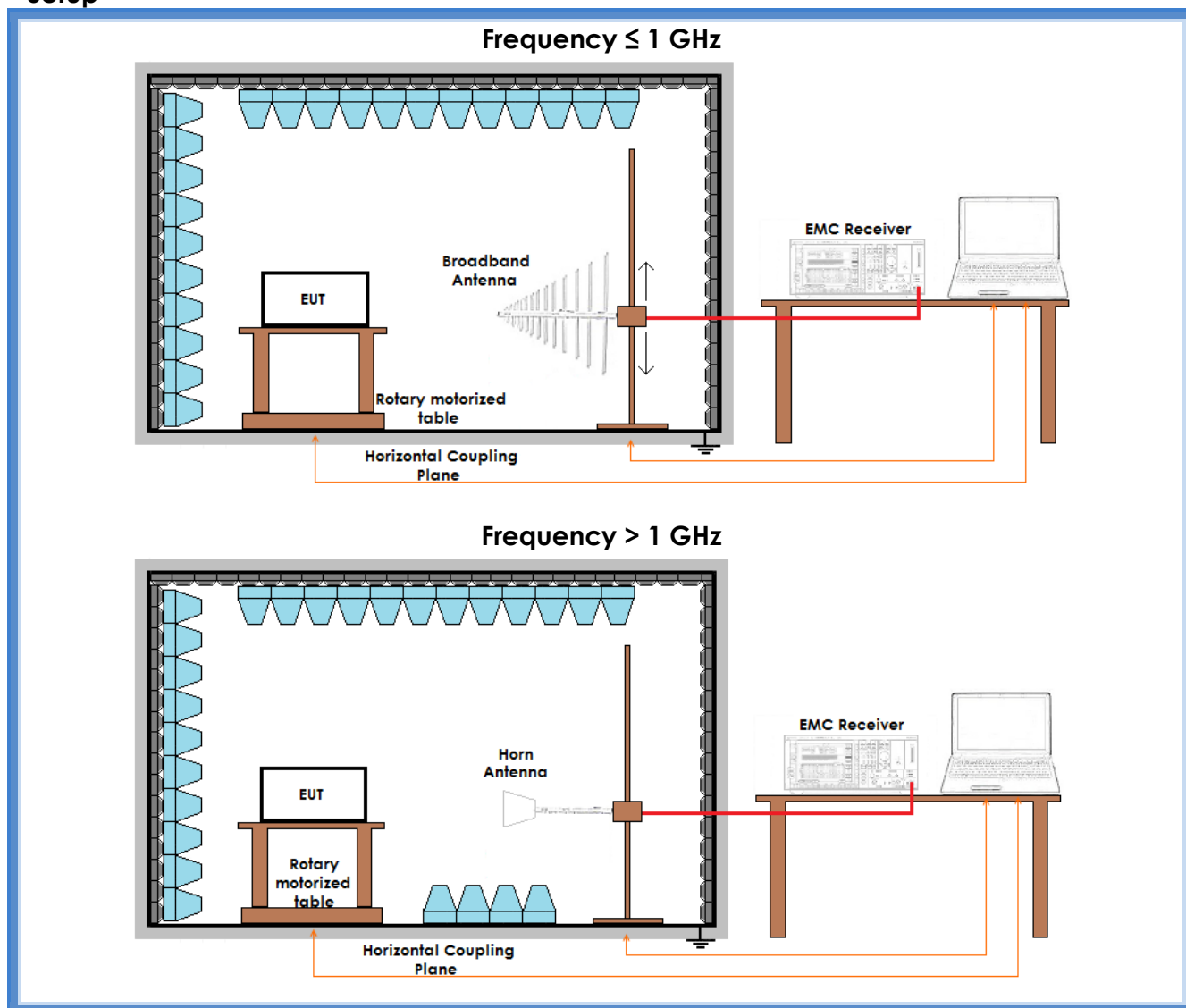
Acceptance limits for emissions in non-restricted frequency bands (according to ANSI C63.10 cl. 11.11.1)

The DTS rules specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

- If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz
- If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz.
- In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required



Setup





Result – AV detector

Harmonic	Lowest channel		Medium channel		Highest channel		Results
	Level (dB μ V/m)	Limits (dB μ V/m)	Level (dB μ V/m)	Limits (dB μ V/m)	Level (dB μ V/m)	Limits (dB μ V/m)	
II	36,86	54,00	39,35	54,00	36,35	54,00	Complies
III	38,28	54,00	40,56	54,00	40,03	54,00	Complies
IV	42,51	54,00	45,40	54,00	45,87	54,00	Complies
V	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	Complies
VI	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	Complies
VII	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	Complies
VIII	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	Complies
IX	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	Complies
X	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	Complies

Remarks: EUT was tested in 3 orthogonal planes. The results in this table show the highest values. No spurious other than harmonics have been found. The results have been extrapolated to the specified distance using an extrapolation factor. For all harmonics it was considered the limit of 54 dB μ V/m as a worse case, even if some harmonics could fall in non-restricted frequency bands



Result – Peak detector

Harmonic	Lowest channel		Medium channel		Highest channel		Results
	Level (dB μ V/m)	Limits (dB μ V/m)	Level (dB μ V/m)	Limits (dB μ V/m)	Level (dB μ V/m)	Limits (dB μ V/m)	
II	46,30	74,00	47,25	74,00	46,18	74,00	Complies
III	49,68	74,00	50,73	74,00	51,68	74,00	Complies
IV	53,94	74,00	55,10	74,00	55,67	74,00	Complies
V	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	Complies
VI	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	Complies
VII	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	Complies
VIII	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	Complies
IX	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	Complies
X	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	Complies

Remarks: EUT was tested in 3 orthogonal planes. The results in this table show the highest values. No spurious other than harmonics have been found. The results have been extrapolated to the specified distance using an extrapolation factor. For all harmonics it was considered the limit of 74 dB μ V/m as a worse case, even if some harmonics could fall in non-restricted frequency bands

Result: The requirements are met