

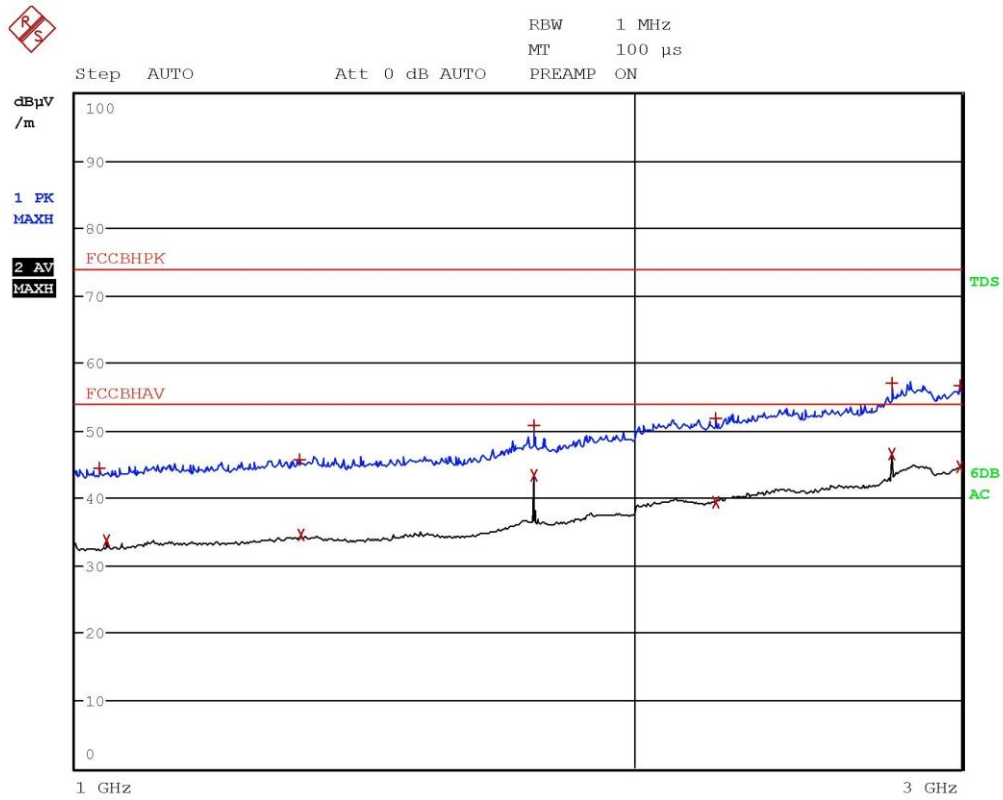
Gandini 19037947

CMC Centro Misure Compatibilità S.r.l.



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL d μ V/m	DELTA LIMIT dB
1 Max Peak	1.0304 GHz	44.46	-29.51
2 Average	1.0304 GHz	32.34	-21.63
2 Average	1.3428 GHz	34.39	-19.58
1 Max Peak	1.3476 GHz	45.67	-28.30
1 Max Peak	1.7288 GHz	47.77	-26.20
2 Average	1.7316 GHz	36.14	-17.83
2 Average	2.074 GHz	39.73	-14.24
1 Max Peak	2.102 GHz	52.39	-21.58
2 Average	2.4552 GHz	42.80	-11.18
1 Max Peak	2.4636 GHz	53.24	-20.73
1 Max Peak	2.7516 GHz	57.39	-16.58
2 Average	2.7516 GHz	46.75	-7.22

Gandini 19037947



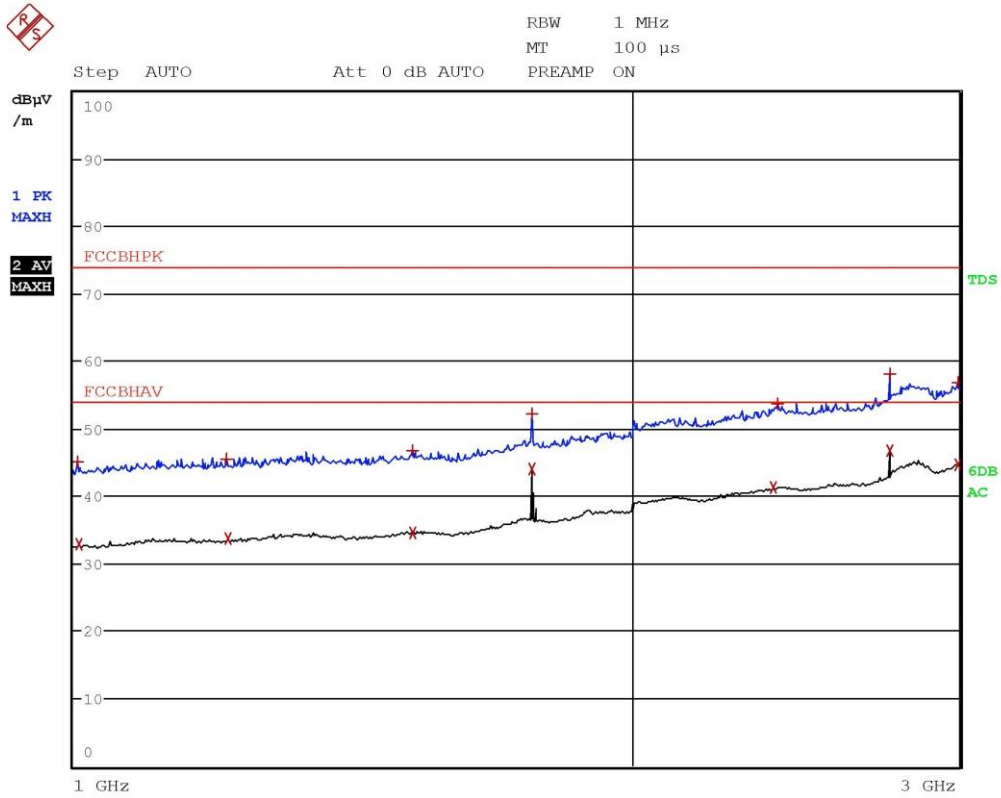
Gandini 19037948

CMC Centro Misure Compatibilità S.r.l.



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dμV/m	DELTA LIMIT dB
1 Max Peak	1.03 GHz	44.42	-29.55
2 Average	1.04 GHz	33.72	-20.25
1 Max Peak	1.3212 GHz	45.72	-28.25
2 Average	1.3236 GHz	34.57	-19.40
2 Average	1.7664 GHz	43.44	-10.53
1 Max Peak	1.7664 GHz	50.80	-23.17
2 Average	2.2104 GHz	39.47	-14.50
1 Max Peak	2.2136 GHz	51.70	-22.27
1 Max Peak	2.7516 GHz	57.07	-16.90
2 Average	2.7516 GHz	46.59	-7.38
1 Max Peak	2.996 GHz	56.61	-17.36
2 Average	2.9968 GHz	44.60	-9.37

Gandini 19037948



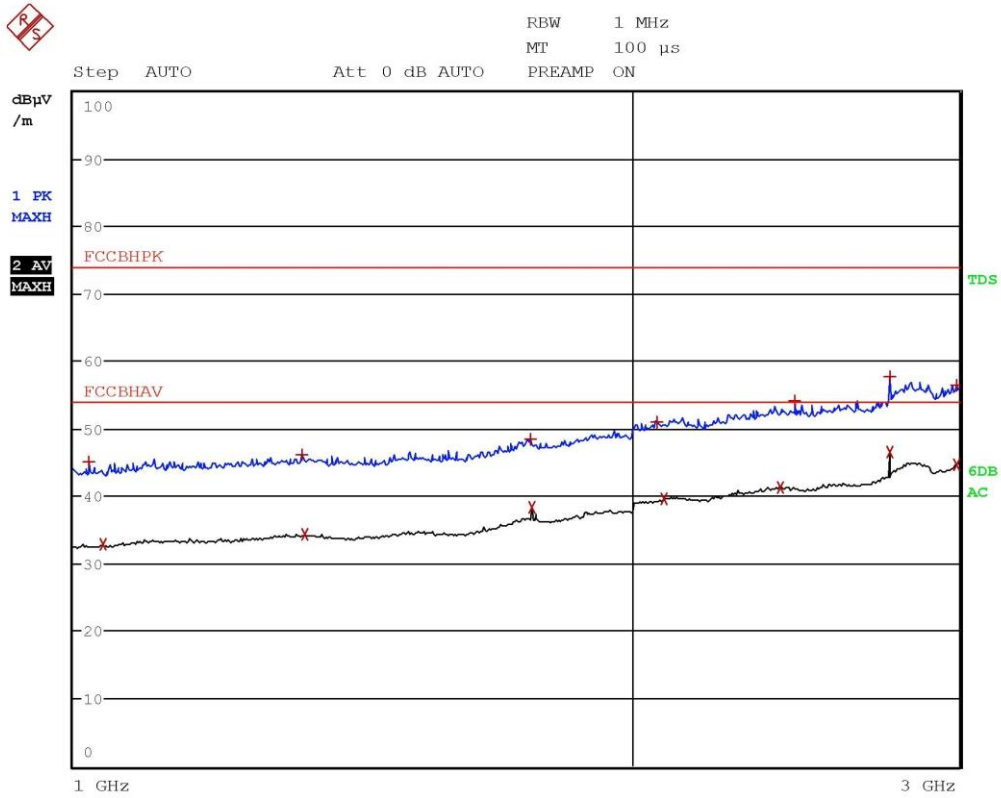
Gandini 19037949

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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	1.0048 GHz	45.13	-28.84
2 Average	1.0072 GHz	32.91	-21.06
1 Max Peak	1.21 GHz	45.42	-28.55
2 Average	1.2112 GHz	33.65	-20.32
2 Average	1.5236 GHz	34.50	-19.47
1 Max Peak	1.524 GHz	46.65	-27.33
2 Average	1.7664 GHz	44.00	-9.97
1 Max Peak	1.7664 GHz	52.20	-21.77
2 Average	2.38 GHz	41.21	-12.76
1 Max Peak	2.3956 GHz	53.68	-20.29
1 Max Peak	2.7516 GHz	57.98	-15.99
2 Average	2.7516 GHz	46.74	-7.23
1 Max Peak	2.9924 GHz	56.74	-17.23
2 Average	2.996 GHz	44.72	-9.25

Gandini 19037949



Gandini 19037950

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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
1 Max Peak	1.02 GHz	45.09	-28.88
2 Average	1.0376 GHz	32.82	-21.15
1 Max Peak	1.3268 GHz	46.05	-27.92
2 Average	1.3312 GHz	34.42	-19.55
1 Max Peak	1.7612 GHz	48.32	-25.65
2 Average	1.766 GHz	38.32	-15.65
1 Max Peak	2.0628 GHz	50.84	-23.13
2 Average	2.0788 GHz	39.59	-14.38
2 Average	2.4044 GHz	41.35	-12.62
1 Max Peak	2.4444 GHz	54.06	-19.91
1 Max Peak	2.7516 GHz	57.57	-16.40
2 Average	2.7516 GHz	46.56	-7.41
1 Max Peak	2.9876 GHz	56.45	-17.52
2 Average	2.9896 GHz	44.54	-9.43

Gandini 19037950

Result: The requirements are met

CMC Centro Misure Compatibilità S.r.l.



11.4 20 dB bandwidth

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- ANSI C63.10 cl. 7.8.7
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S295
 Measurement uncertainty: See clause 7 of this test report

Test specification

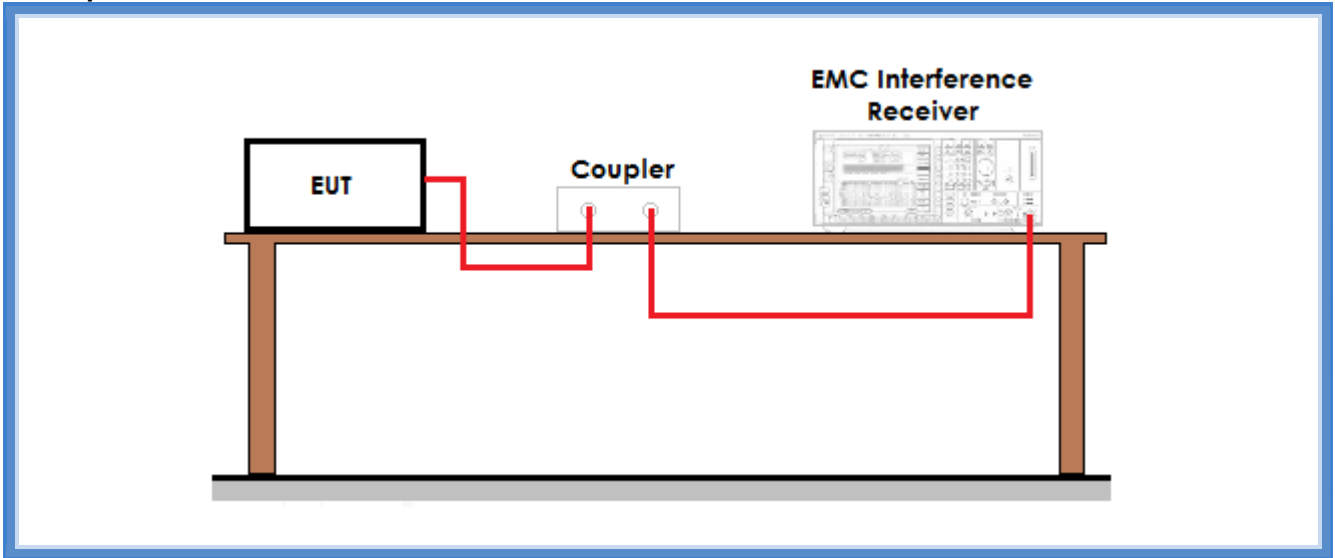
See FCC Part 15.247

Environmental conditions

<i>Temperature (°C)</i>	<i>Atmospheric pressure (kPa)</i>	<i>Relative humidity (%)</i>
22	100	45

Acceptance limits: The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz

Setup



Result

Frequency (MHz)	Graphs	20 dB bandwidth (kHz)	Maximum 20 dB bandwidth allowed (kHz)	Results
915,075	G19037951	23,40	500	Complies
921,425	G19037952	23,20	500	Complies
927,825	G19037953	23,20	500	Complies

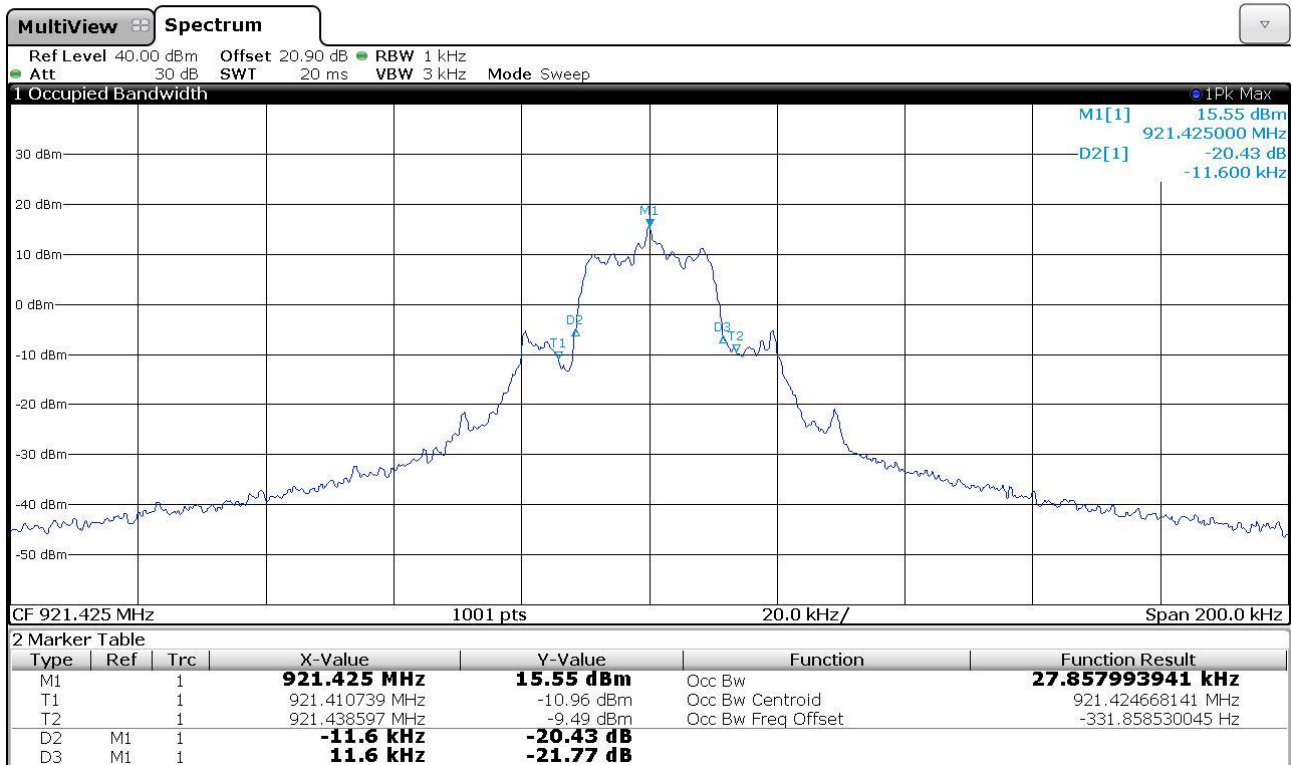


Graphs

19037951



19037952





19037953



Result: The requirements are met

CMC Centro Misure Compatibilità S.r.l.



11.5 Channel separation

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- KDB 558074 D01 15.247 Meas Guidance v05 cl. 9 b)
- ANSI C63.10 cl. 7.8.2
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S295
 Measurement uncertainty: See clause 7 of this test report

Test specification

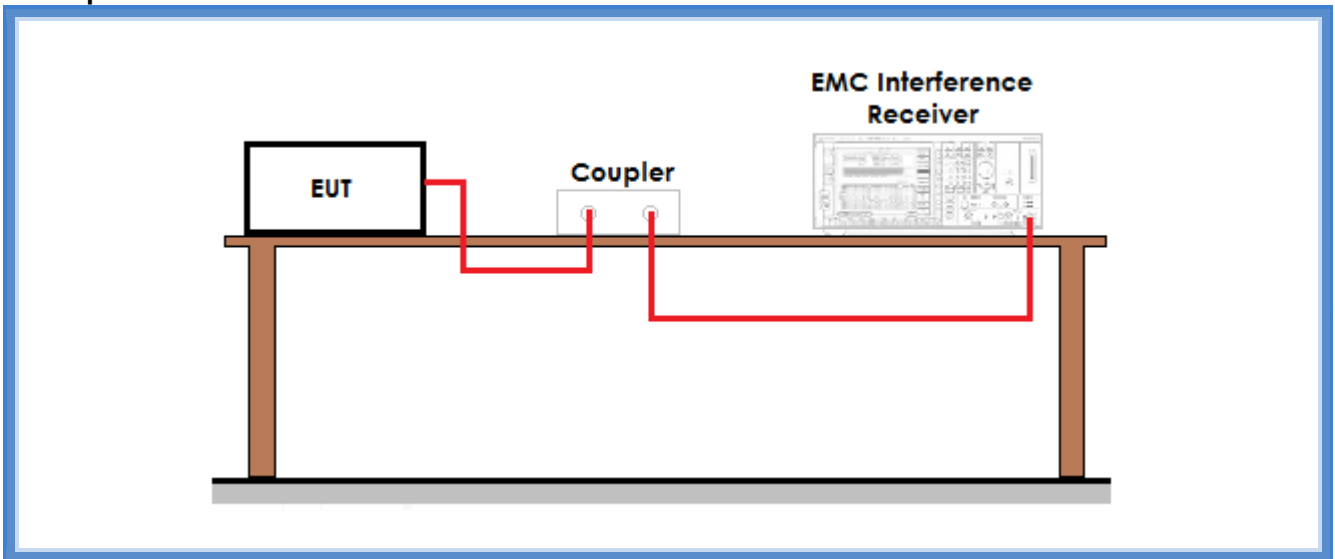
See FCC Part 15.247

Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
20	100	42

Acceptance limits: frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483,5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW

Setup



Result

Frequency band (MHz)	Graphs	Channel separation (kHz)	Minimum channel separation required (kHz)	Results
902 – 928	G19037964	200,3	25	Complies



Graphs

19037964



Result: The requirements are met



11.6 Number of hopping channels

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- KDB 558074 D01 15.247 Meas Guidance v05 cl. 9 b)
- ANSI C63.10 cl. 7.8.3
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S295
 Measurement uncertainty: See clause 7 of this test report

Test specification

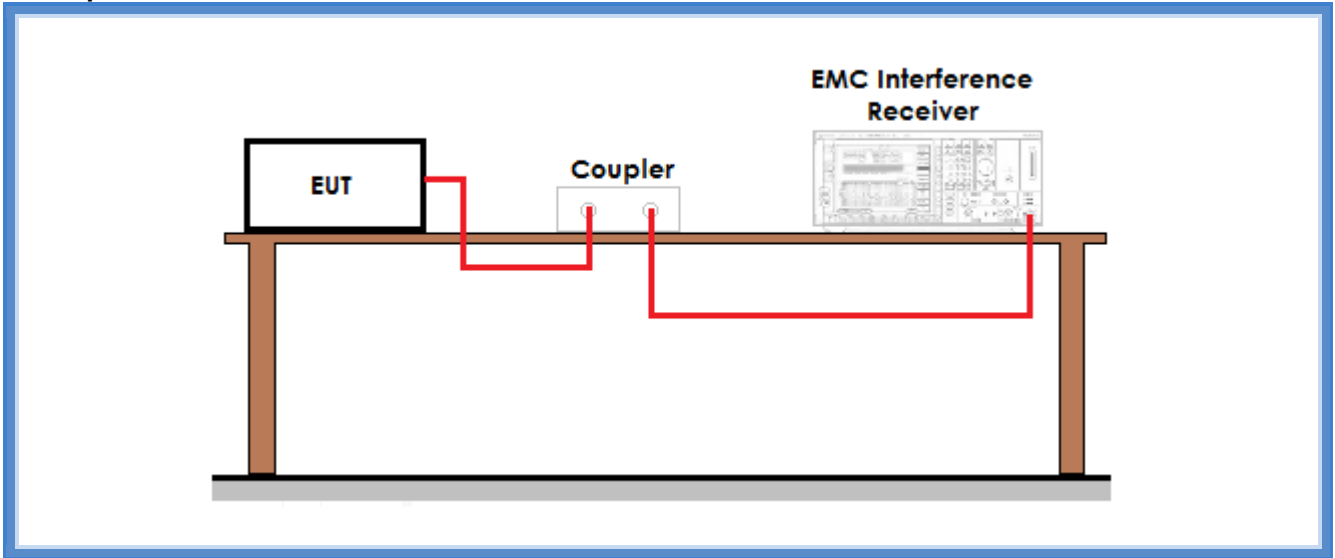
See FCC Part 15.247

Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
20	100	42

Acceptance limits: for frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies. If the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies. Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

Setup



Result

Frequency band (MHz)	Graphs	Number of hopping channels	Minimum number of hopping channels required	Results
902 – 928	G190379063	64	50	Complies



Graphs

19037963



Result: The requirements are met



11.7 Time of occupancy

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- KDB 558074 D01 15.247 Meas Guidance v05 cl. 9 b)
- ANSI C63.10 cl. 7.8.4
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S295
 Measurement uncertainty: See clause 7 of this test report

Test specification

See FCC Part 15.247

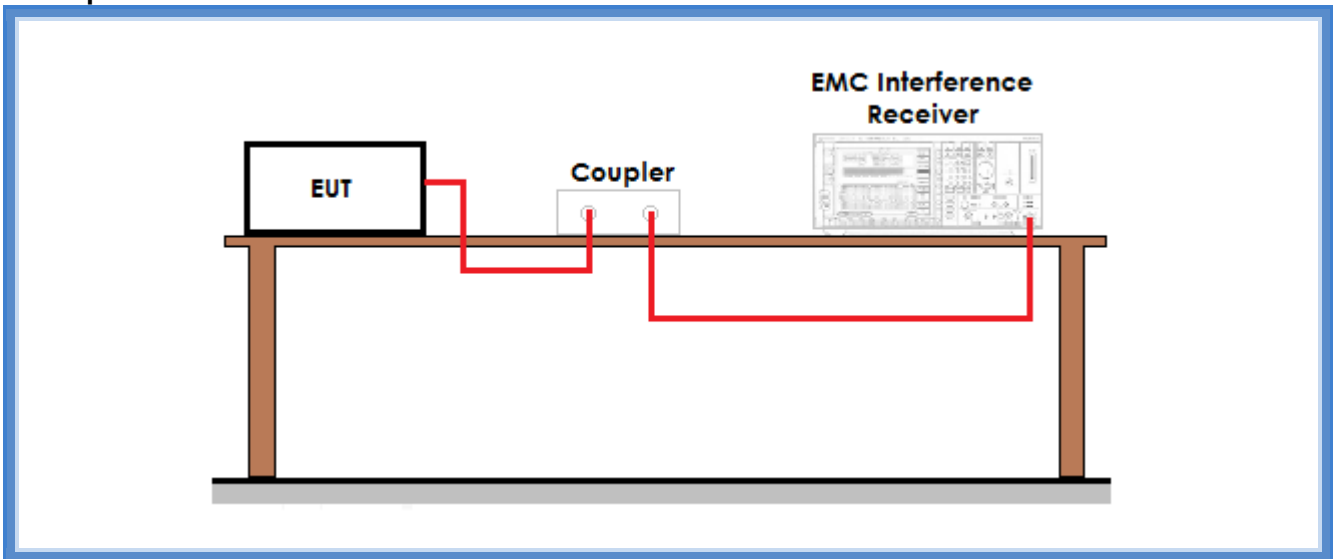
Environmental conditions

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

Acceptance limits:

For frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0,4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0,4 seconds within a 10 second period

Setup



Result

Frequency (MHz)	Graphs	Dwell time (ms)
922,075	G19037968	14,68

Frequency (MHz)	Graphs	Number of transmissions	Period
922,075	G19037966	7	20 s

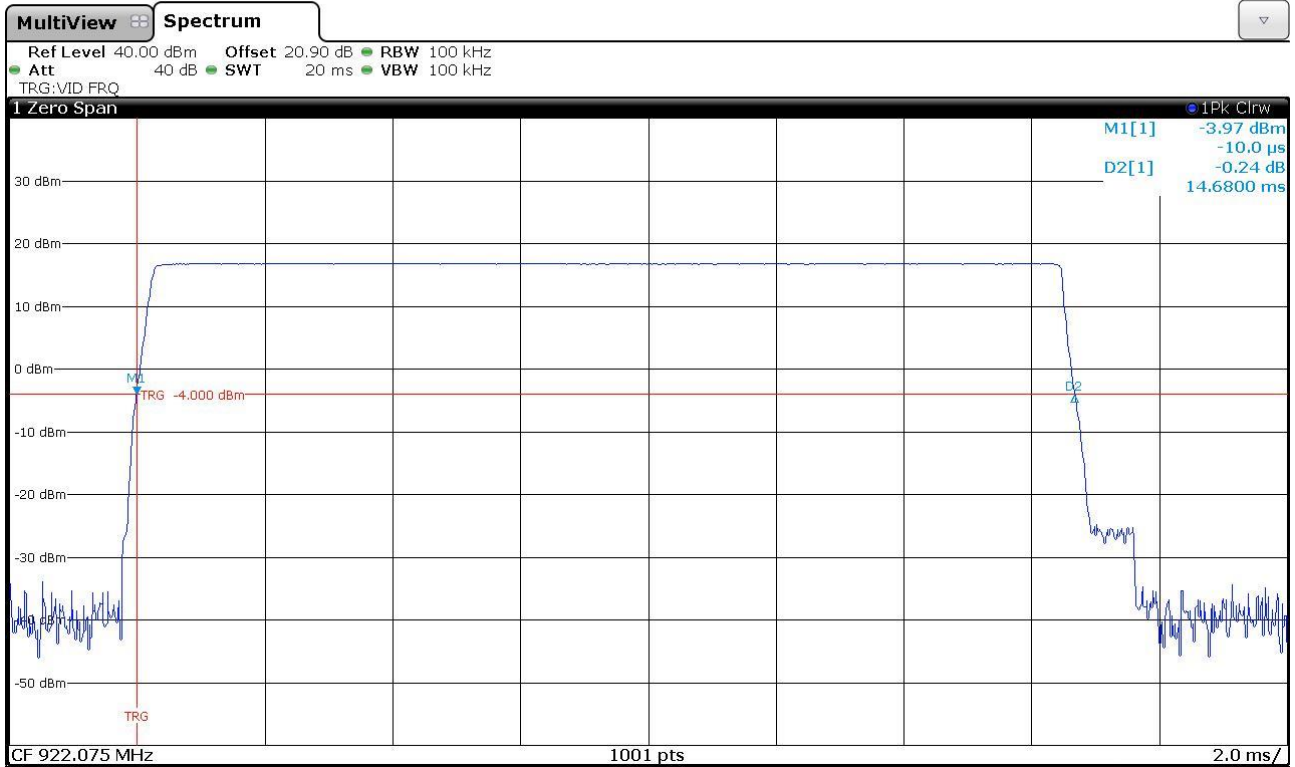
Remarks: only the highest peaks have been considered. The lowest peaks are due to the auxiliary receiver unit

Time of occupancy (Dwell time x Nr. transmissions)	Maximum allowed time of occupancy	Results
102,76 ms	400 ms	Complies



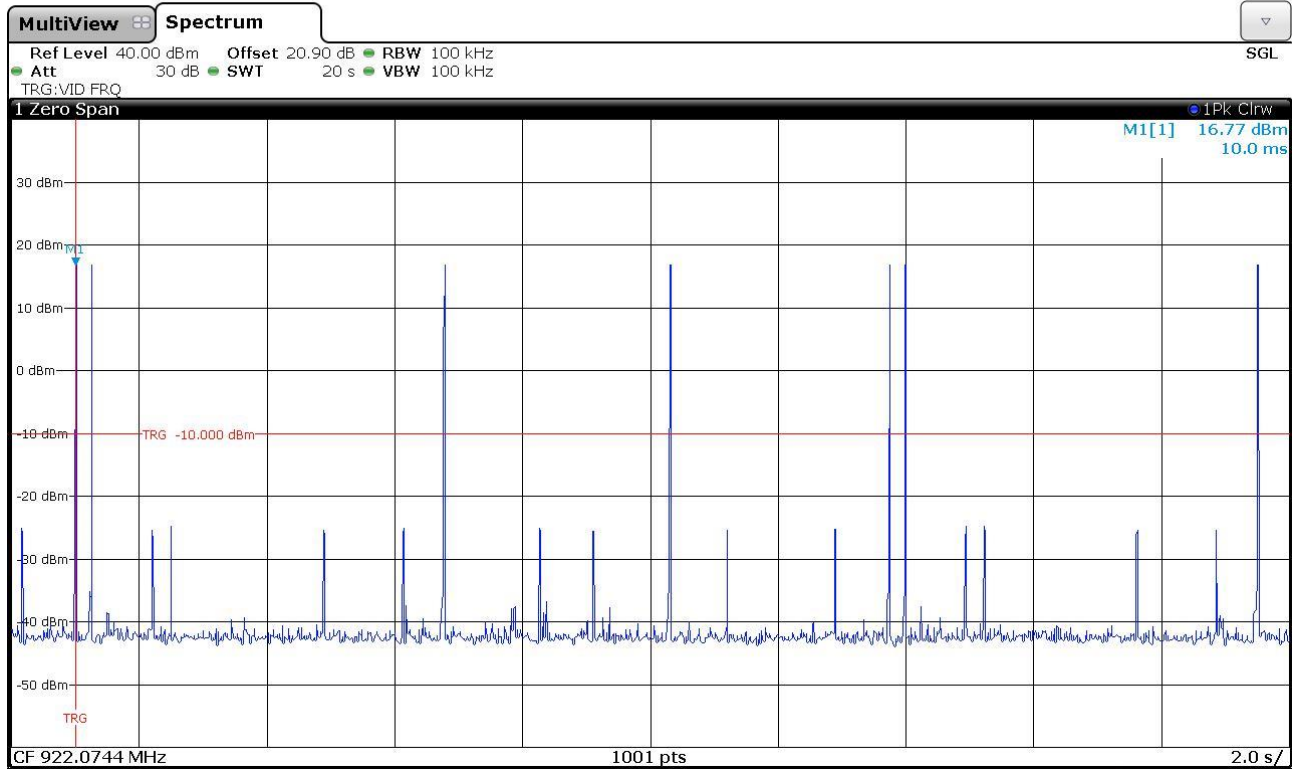
Graphs

19037968





19037966



Result: The requirements are met

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11.8 Band edge

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- ANSI C63.10 cl. 7.8.6
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S295
 Measurement uncertainty: See clause 7 of this test report

Test specification

See FCC Part 15.247

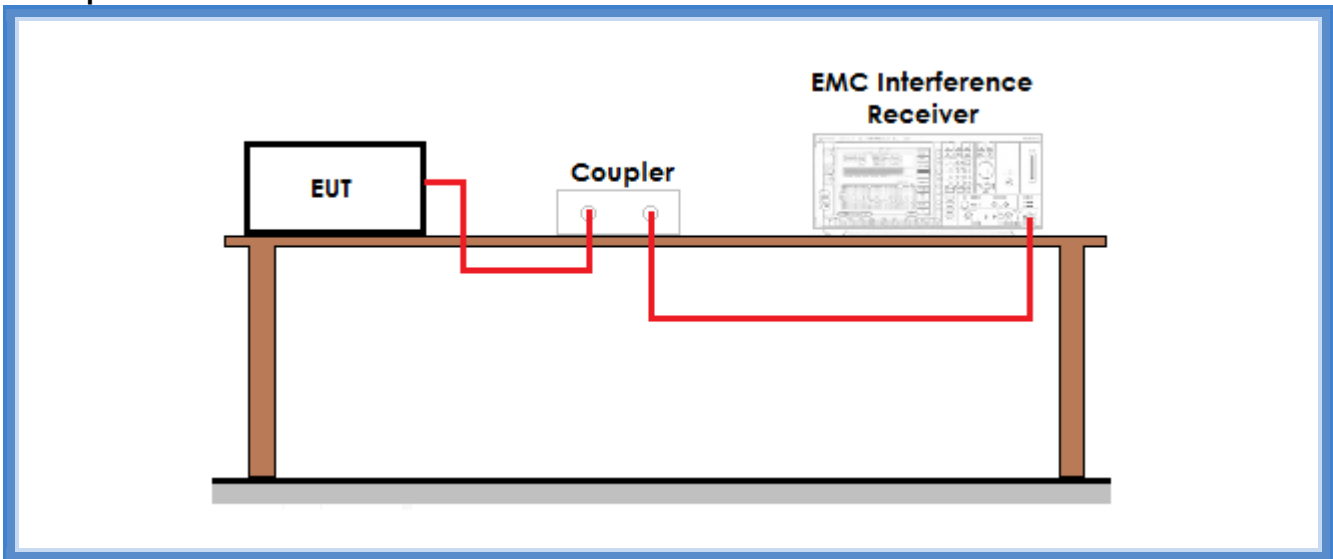
Environmental conditions

<i>Temperature (°C)</i>	<i>Atmospheric pressure (kPa)</i>	<i>Relative humidity (%)</i>
22	100	45

Acceptance limits: operation within the band 902 – 928 MHz

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Setup



Result

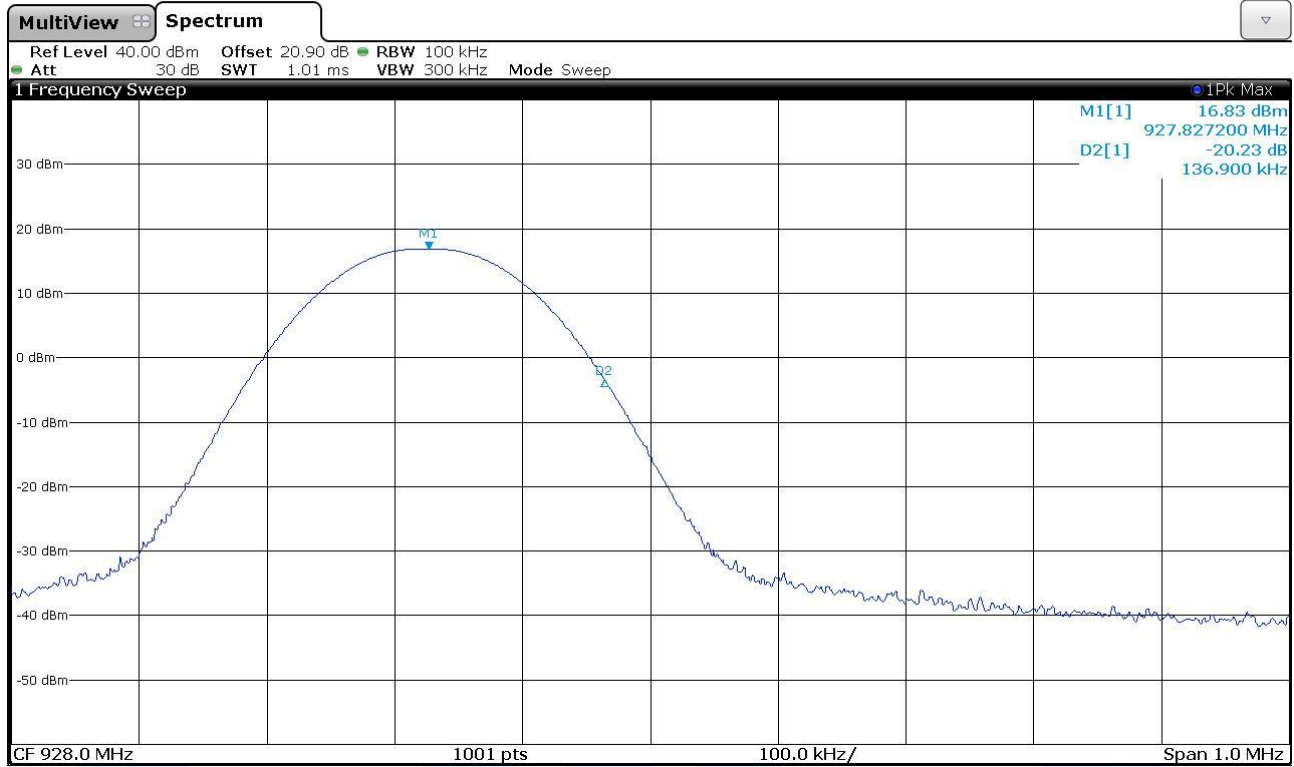
Frequency (MHz)	Graph(s) – Hopping	Results	
915,075	G19037961	F _L : 914,9360 MHz	Complies
	G19037962		
927,825	G19037960	F _H : 927,9630 MHz	Complies

Frequency (MHz)	Graph(s) – No hopping	Results	
915,075	G19037955	F _L : 914,9360 MHz	Complies
	G19037956		
927,825	G19037954	F _H : 927,9640 MHz	Complies



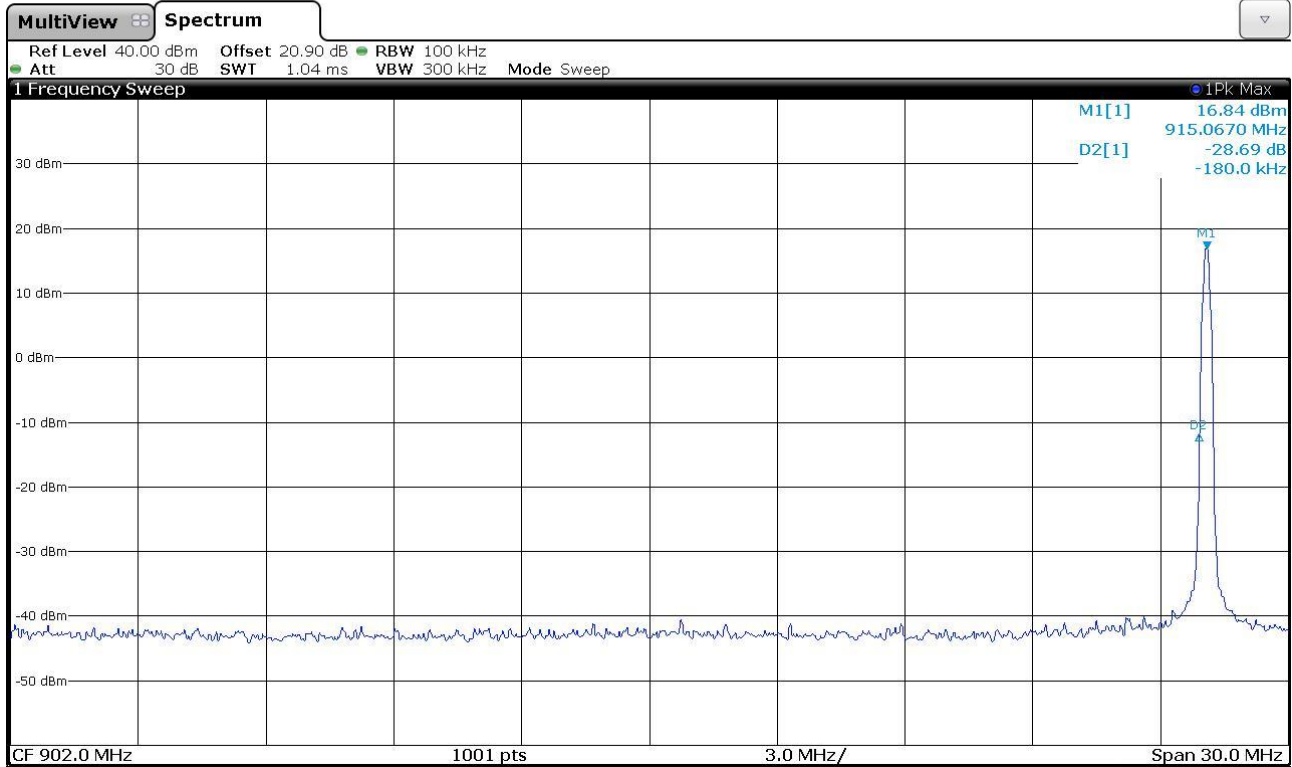
Graphs

19037954





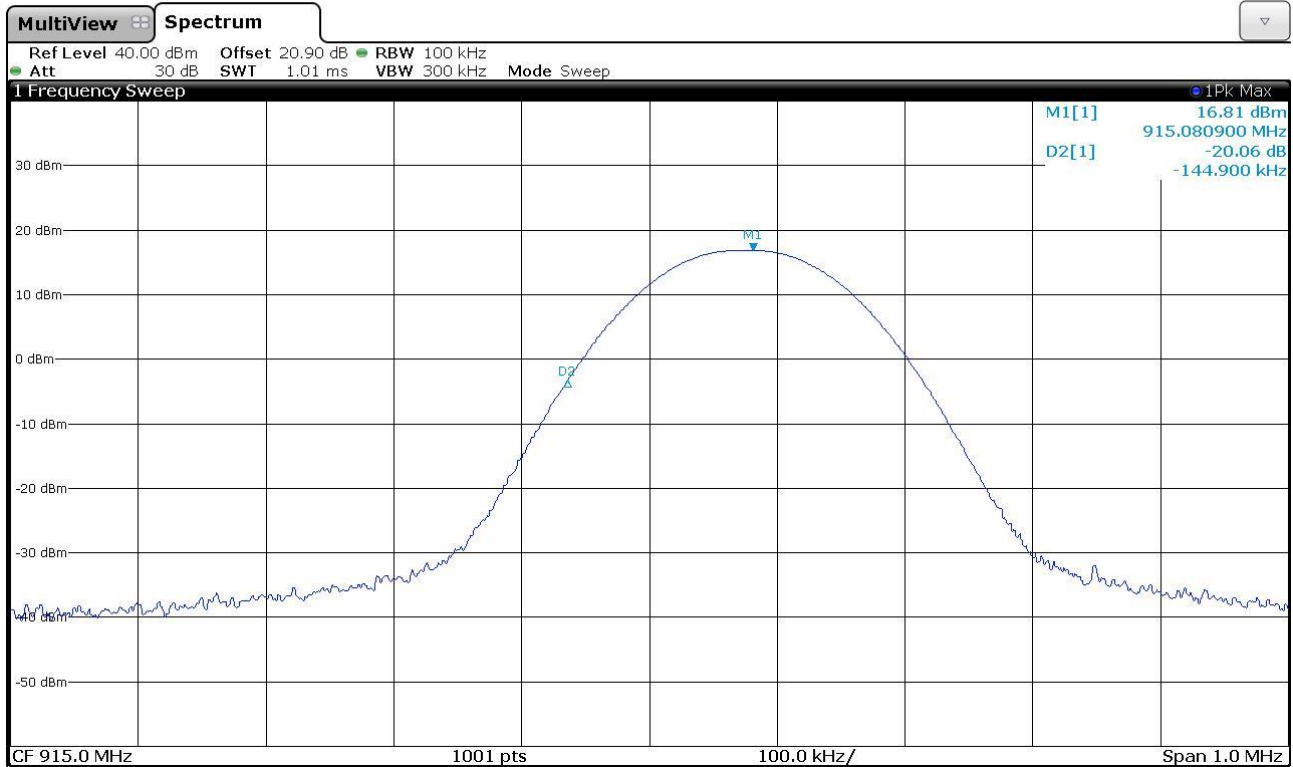
19037955



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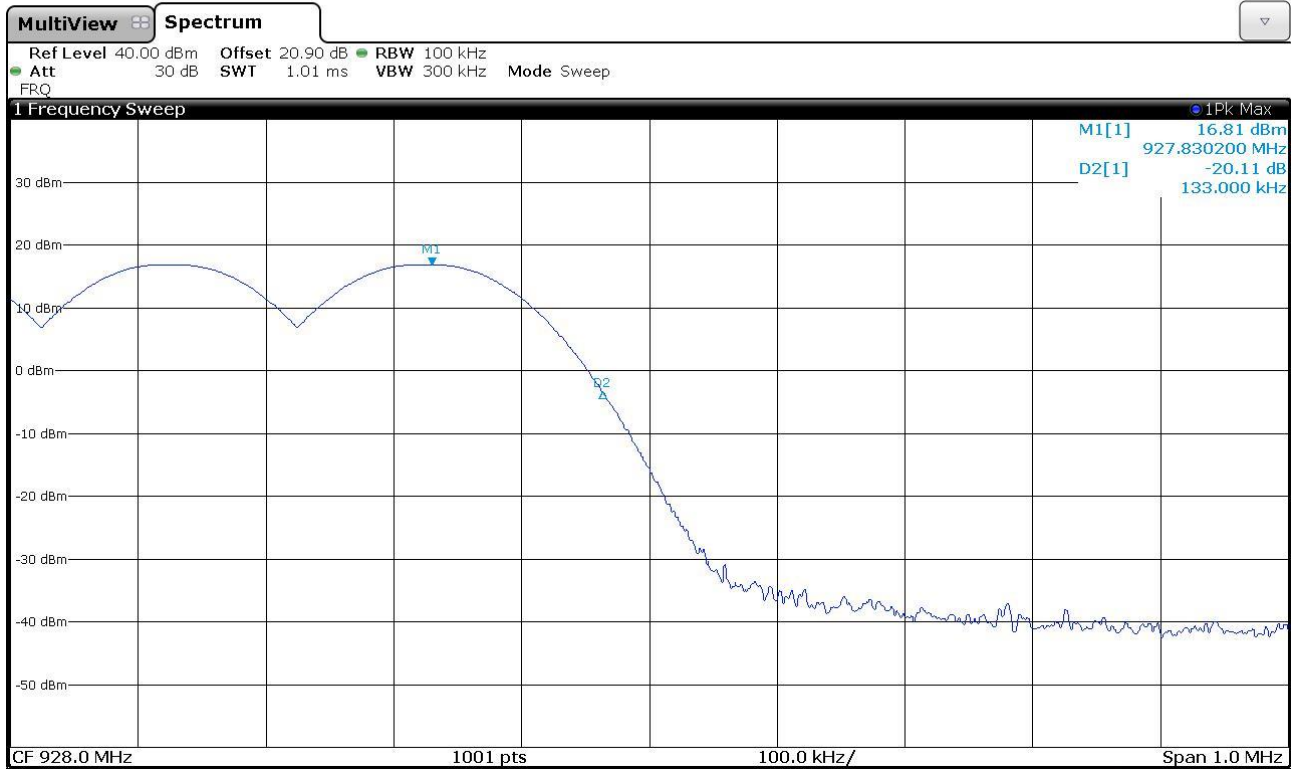


19037956





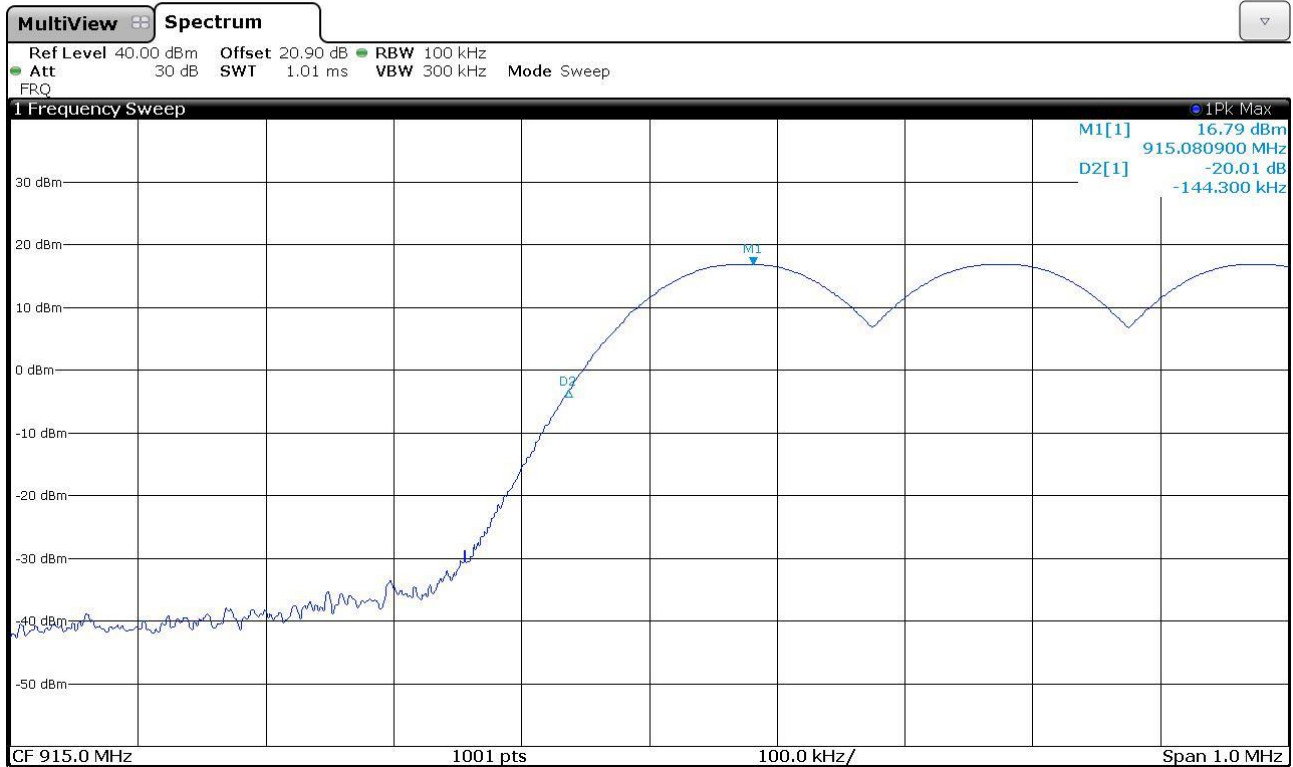
19037960



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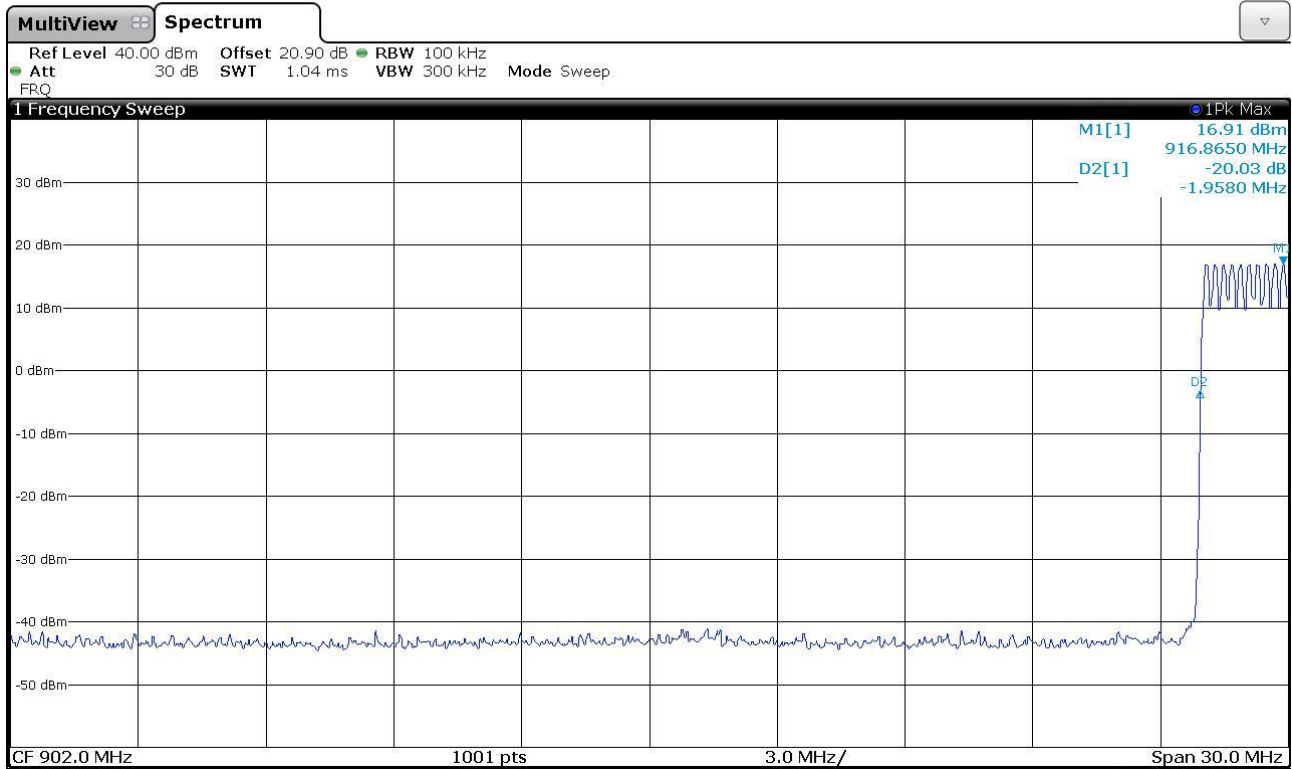
19037961



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19037962



Result: The requirements are met

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11.9 Peak Output Power

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- KDB 558074 D01 15.247 Meas Guidance v05 cl. 2.2
- ANSI C63.10 cl. 7.8.5
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S295
 Measurement uncertainty: See clause 7 of this test report

Test specification

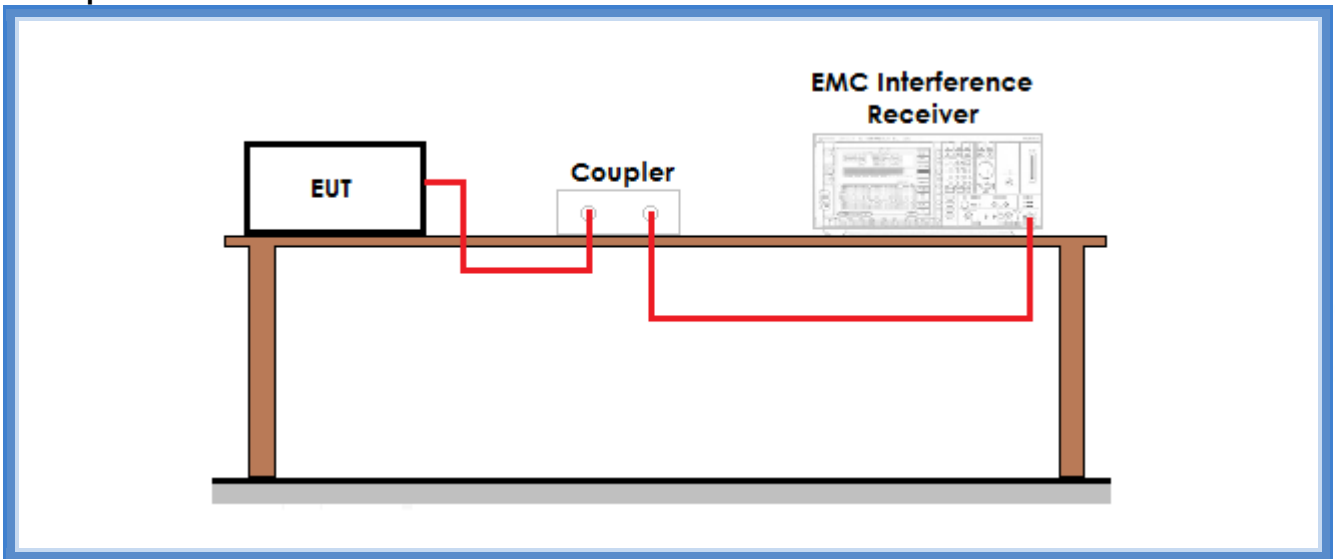
Port: Enclosure
 Antenna polarization: Horizontal (H) – Vertical (V)
 EUT – Antenna distance: 10 m

Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
20	100	45

For frequency hopping systems operating in the 2400–2483,5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483,5 MHz band: 0,125 watts.
 For frequency hopping systems operating in the 902–928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0,25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels.

Setup



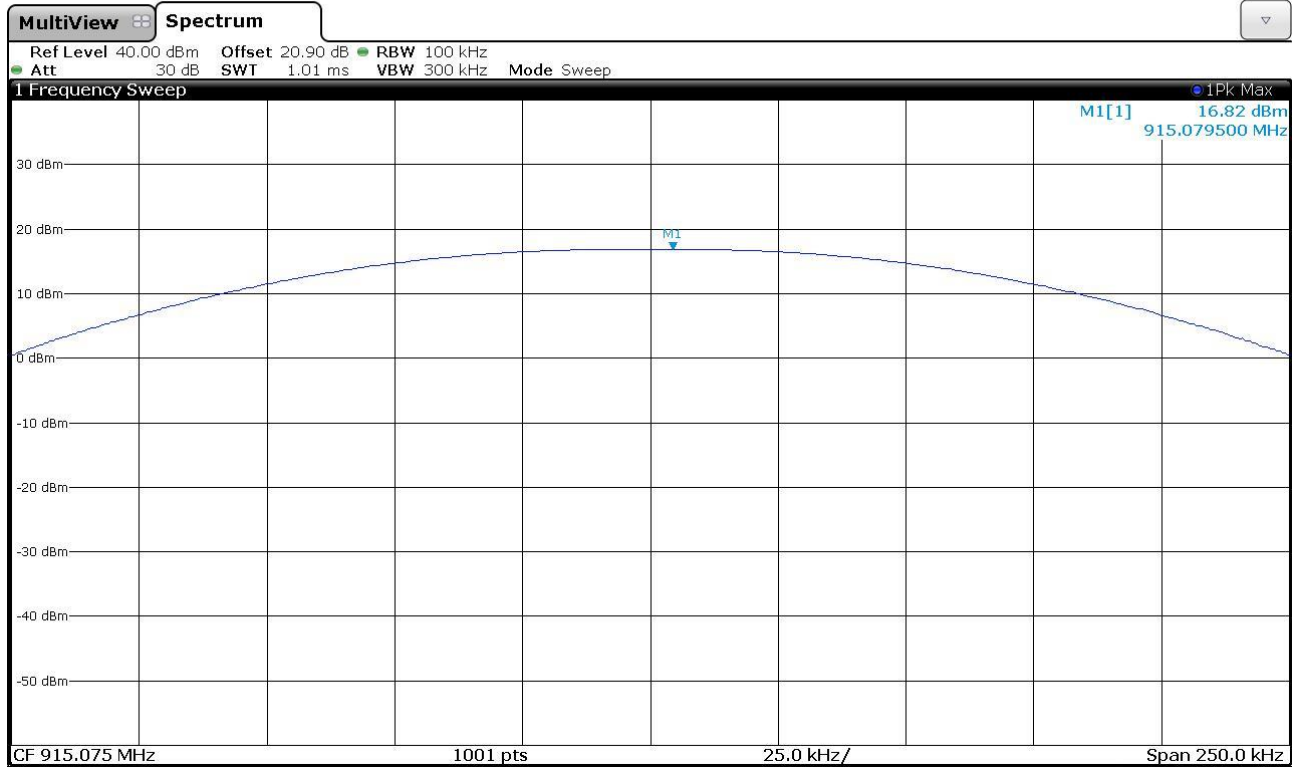
Result

Frequency (MHz)	Graphs	Peak Output Power (dBm)	Peak Output Power (mW)	Results
915,075	G19037957	16,82	48,08	Complies
921,425	G19037958	16,81	47,97	Complies
927,825	G19037959	16,84	48,31	Complies

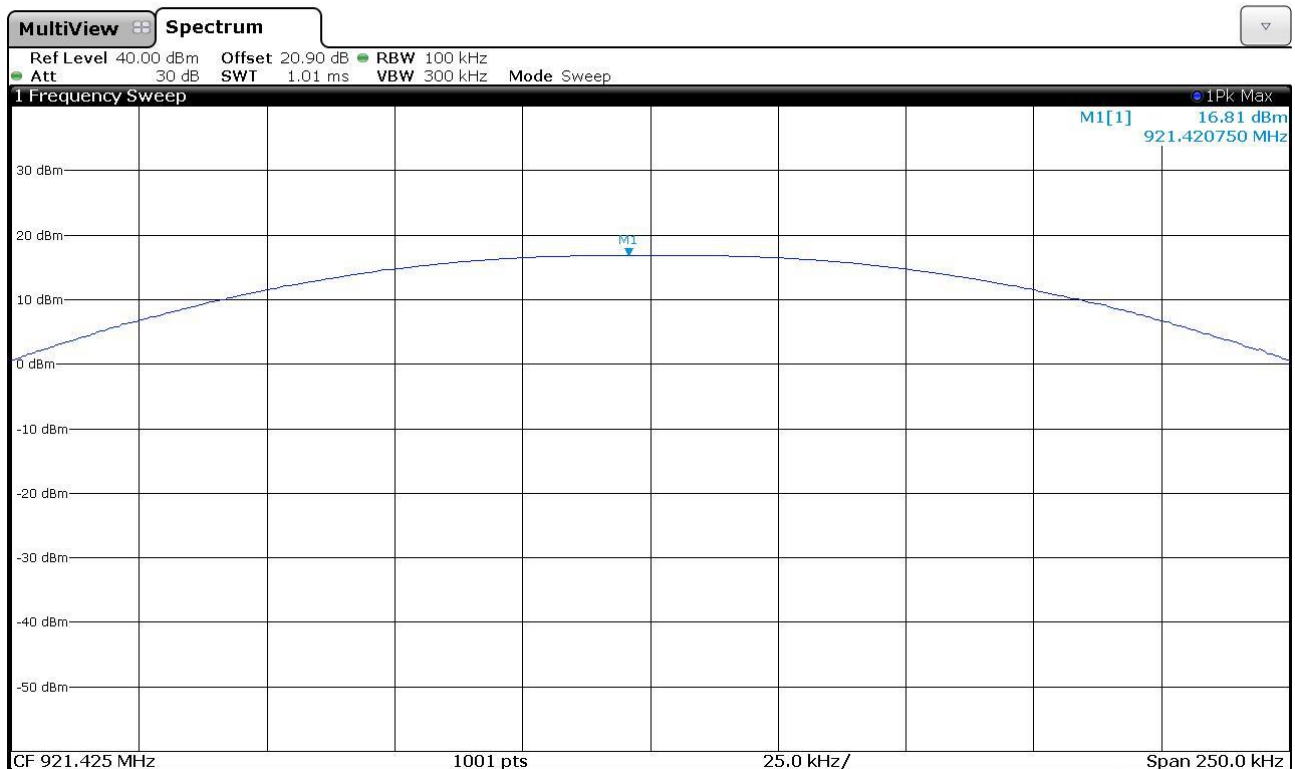


Graphs

19037957

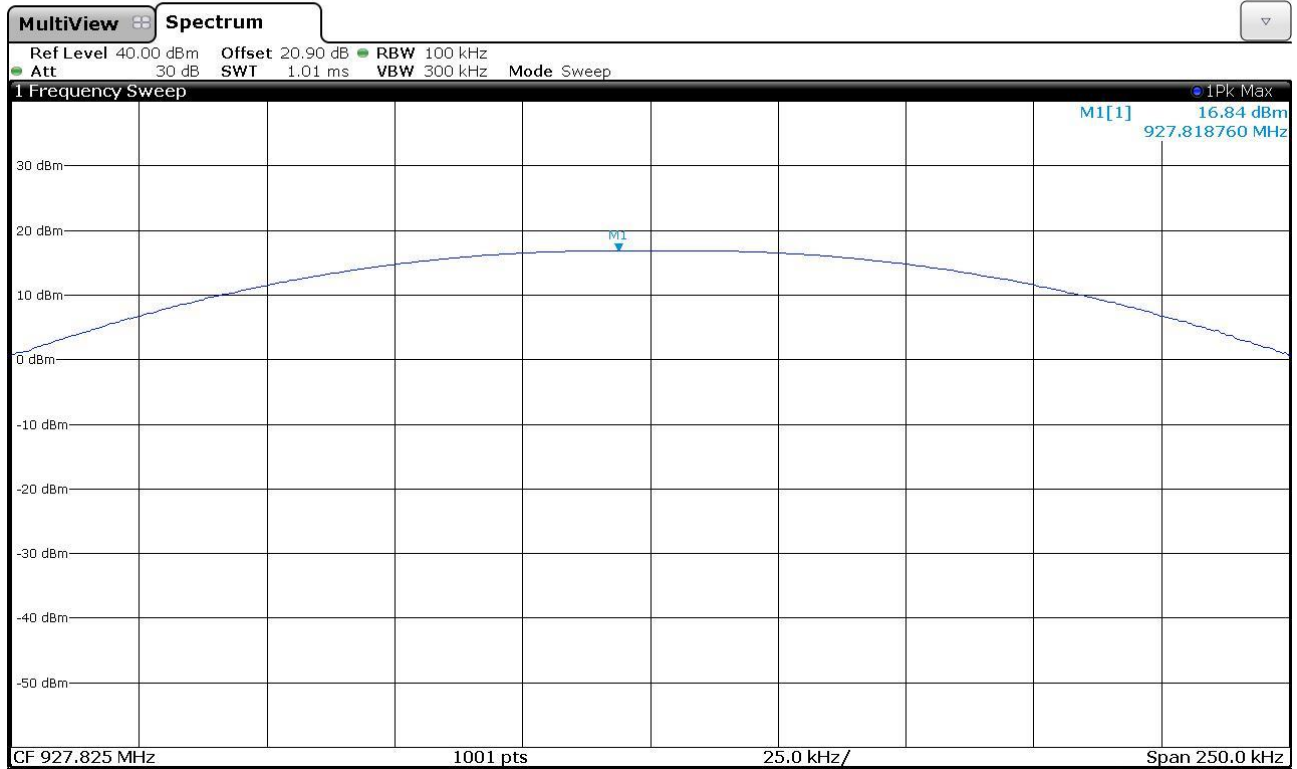


19037958





19037959



Result: The requirements are met

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