

4.4.3.) Receiver Spurious Emission Limits**§ SRSP-101 Clause 4.4.2.2**

Receiving earth stations may not emit electromagnetic waves that have a field strength greater than that which would occur if the stations were replaced by an isotropic transmitter of five nanowatts (-53 dBm).

The measurement bandwidth was chosen to give the best compromise between measurement time and sensitivity. Of course, the bandwidth was never below 4 kHz.

4.4.4.) Receiver Spurious emissions test data

iQ800

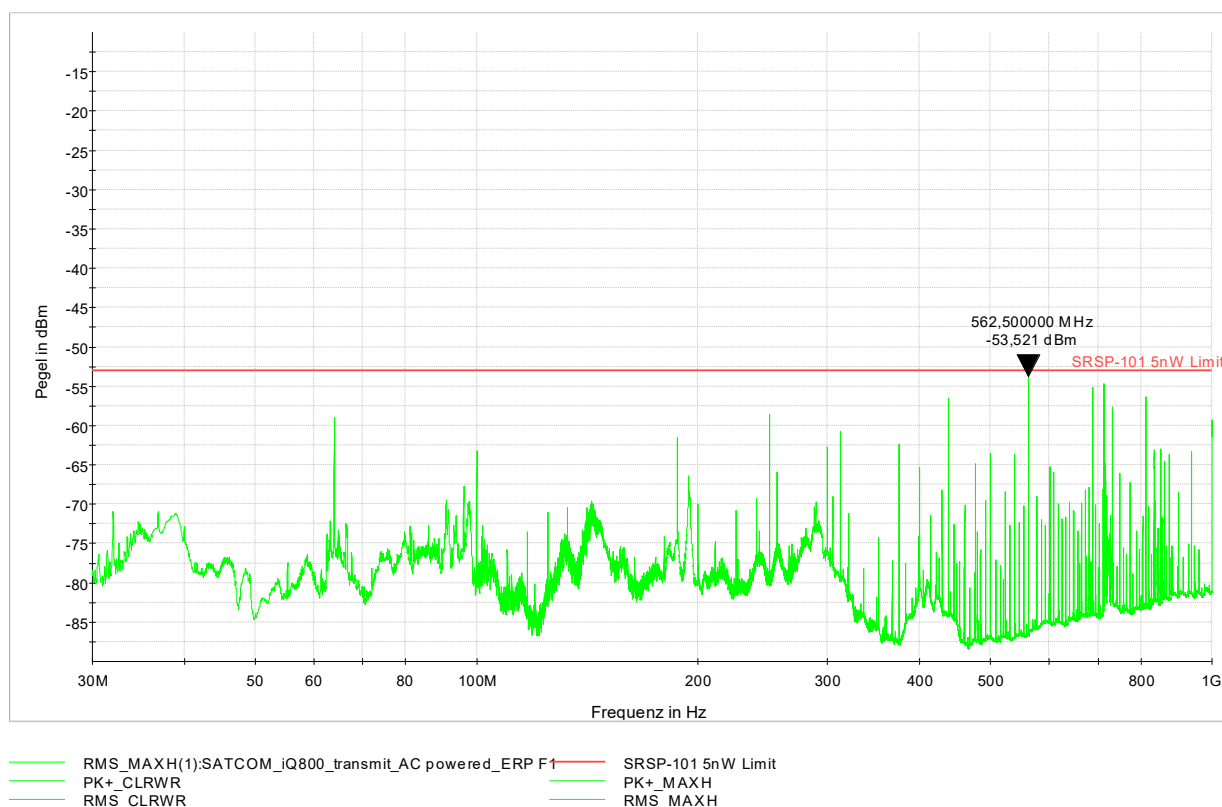
Frequency range	Frequency	EIRP	Measurement distance	RBW	Limit	Margin
GHz	GHz	dBm	meter	kHz	dBm	dB
0,03-1	0,5625	-53,5	3	100	-53	0,5
1-18	1,9375	-53,8	3	1000	-53	0,8
18-40	34,5	-56,0	3	300	-53	3,0
40-60	59,05	-55,3	1	100	-53	2,3
60-90	60,4	-53,6	1	50 – 10	-53	0,6
90-100	94,85	-53,4	0,5	10 – 20	-53	0,4

LSDR

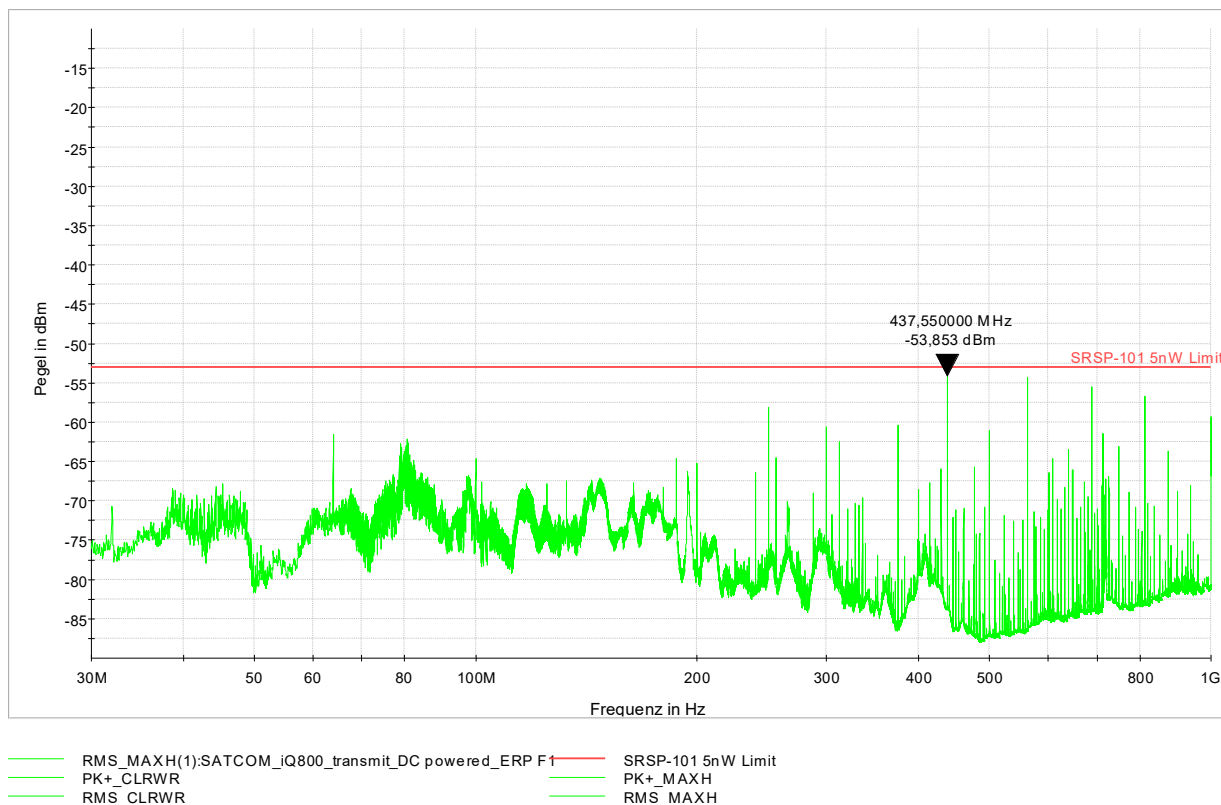
Frequency range	Frequency	EIRP	Measurement distance	RBW	Limit	Margin
GHz	GHz	dBm	meter	kHz	dBm	dB
0,03-1	0,5625	-53,5	3	100	-53	0,5
1-18	1,9375	-54,4	3	1000	-53	1,4
18-40	34,5	-57,2	3	300	-53	4,2
40-60	59,05	-55,3	1	100	-53	2,3
60-90	60,4	-53,5	1	50 – 10	-53	0,5
90-100	94,55	-53,3	0,5	10 – 20	-53	0,3

4.4.5.) Graphical representation of the measurement results

Frequency range 30 MHz – 1 GHz worst case – AC power supply:

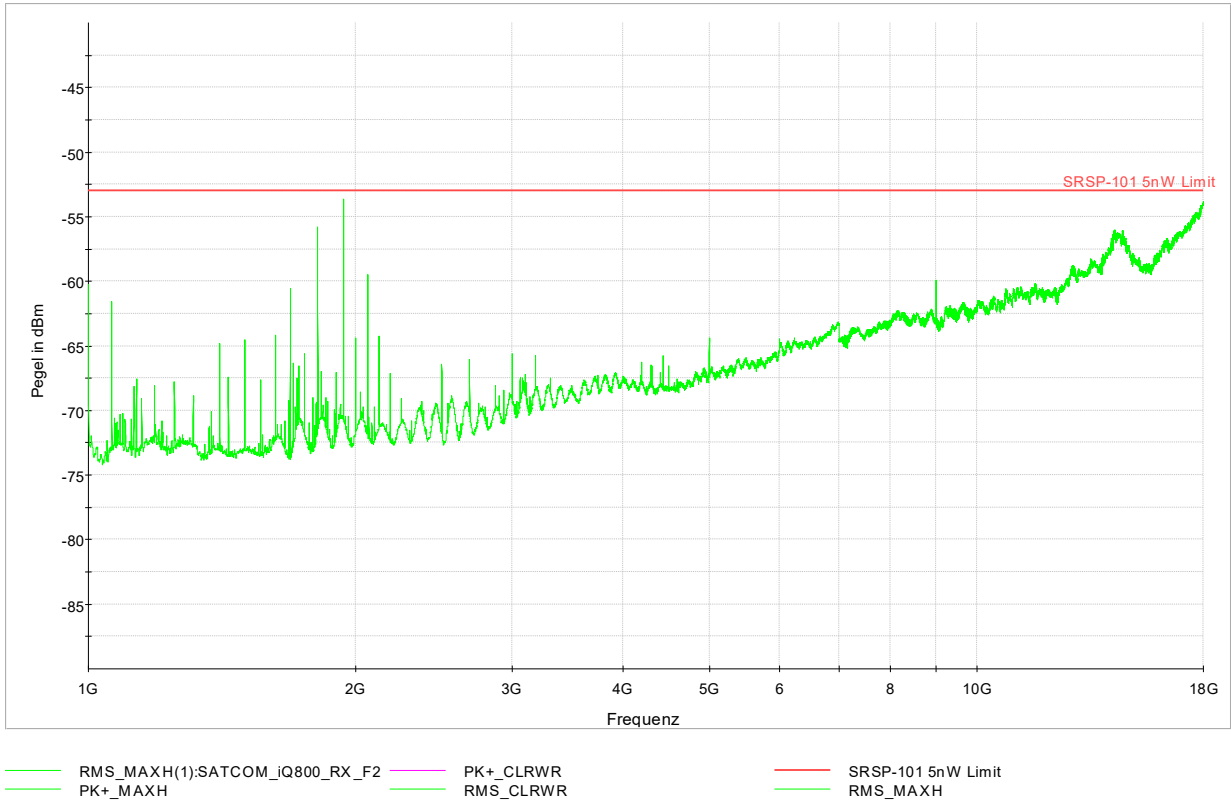


Preliminary measurements have shown slightly higher emissions in iQ800 mode, than in LSDR mode. Therefore only iQ800 mode was measured.

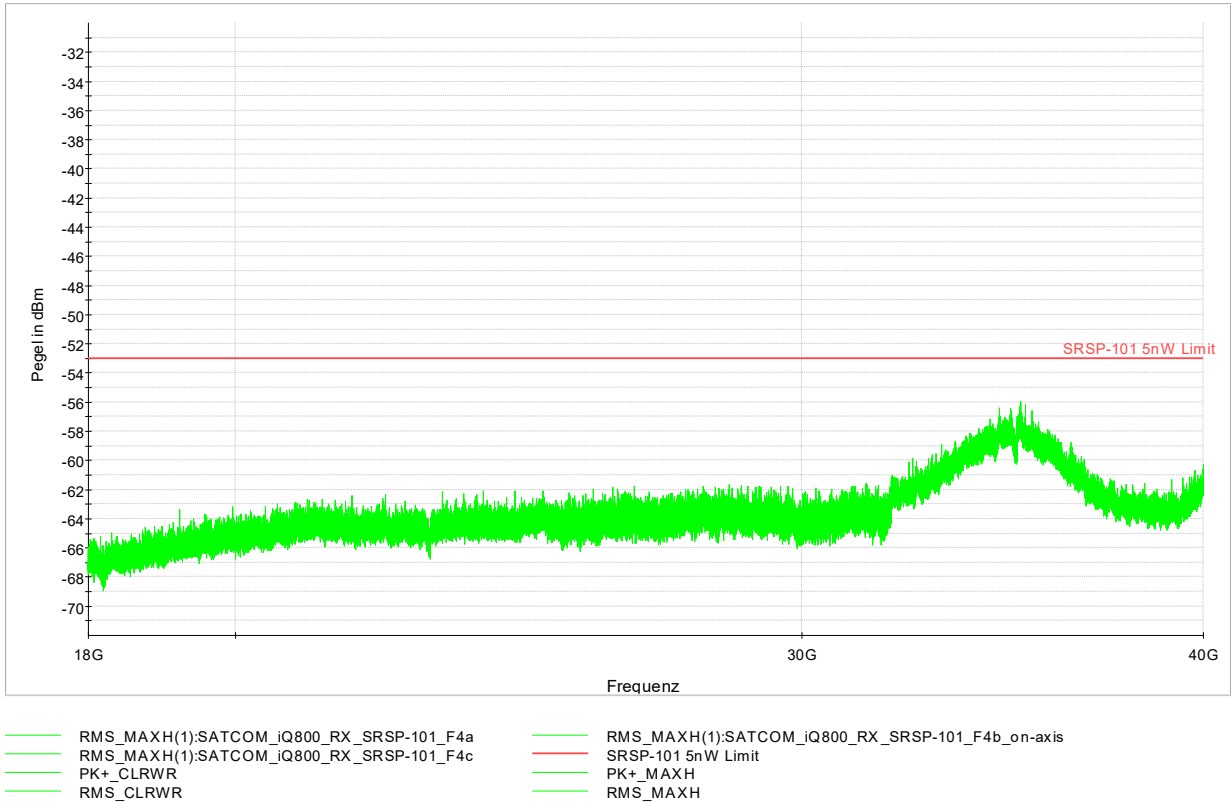
Frequency range 30 MHz – 1 GHz worst case – DC power supply:


Preliminary measurements have shown slightly higher emissions in iQ800 mode, than in LSDR mode. Therefore only iQ800 mode was measured.

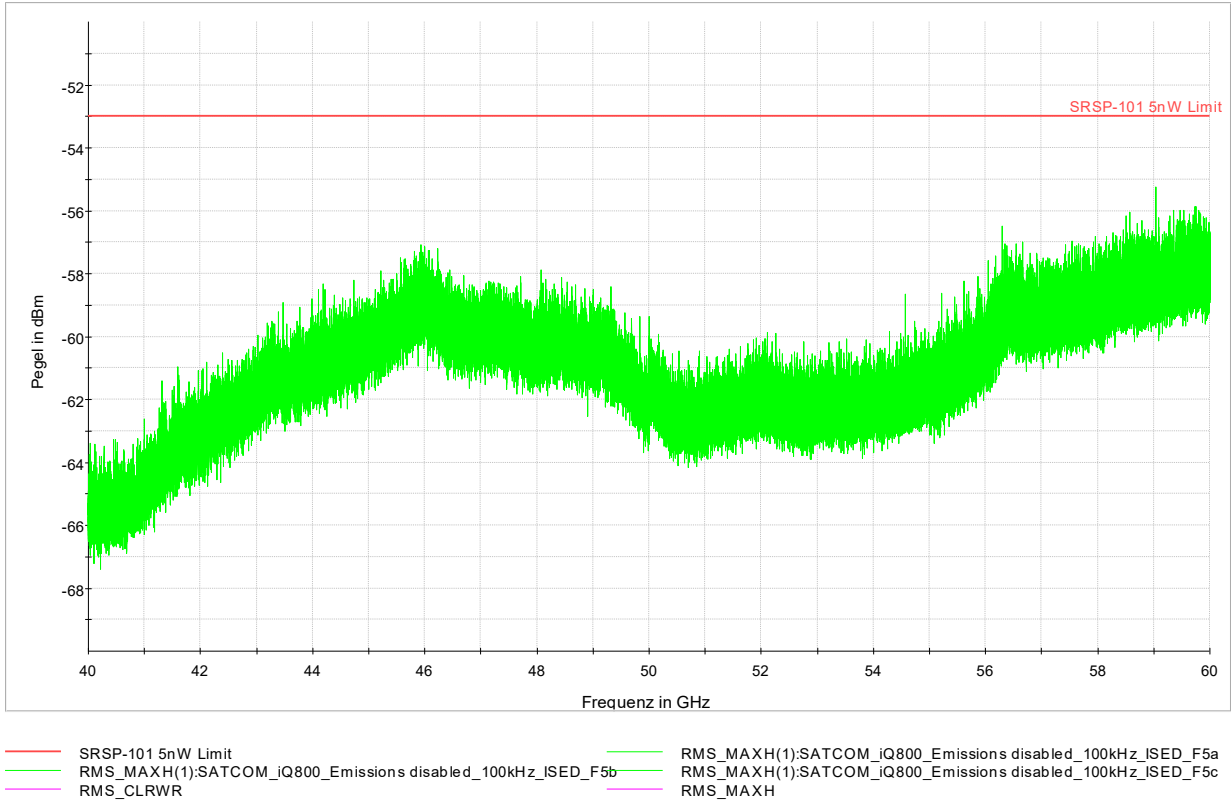
Frequency range 1 – 18 GHz iQ800 mode:



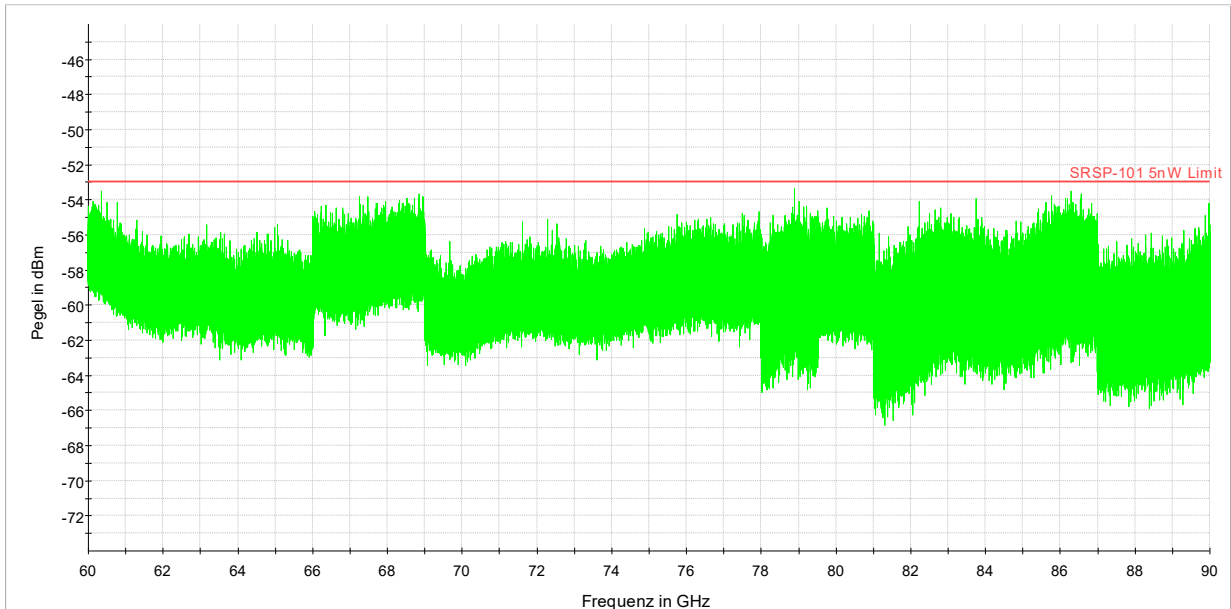
Frequency range 18 – 40 GHz iQ800 mode:



Frequency range 40 – 60 GHz iQ800 mode:

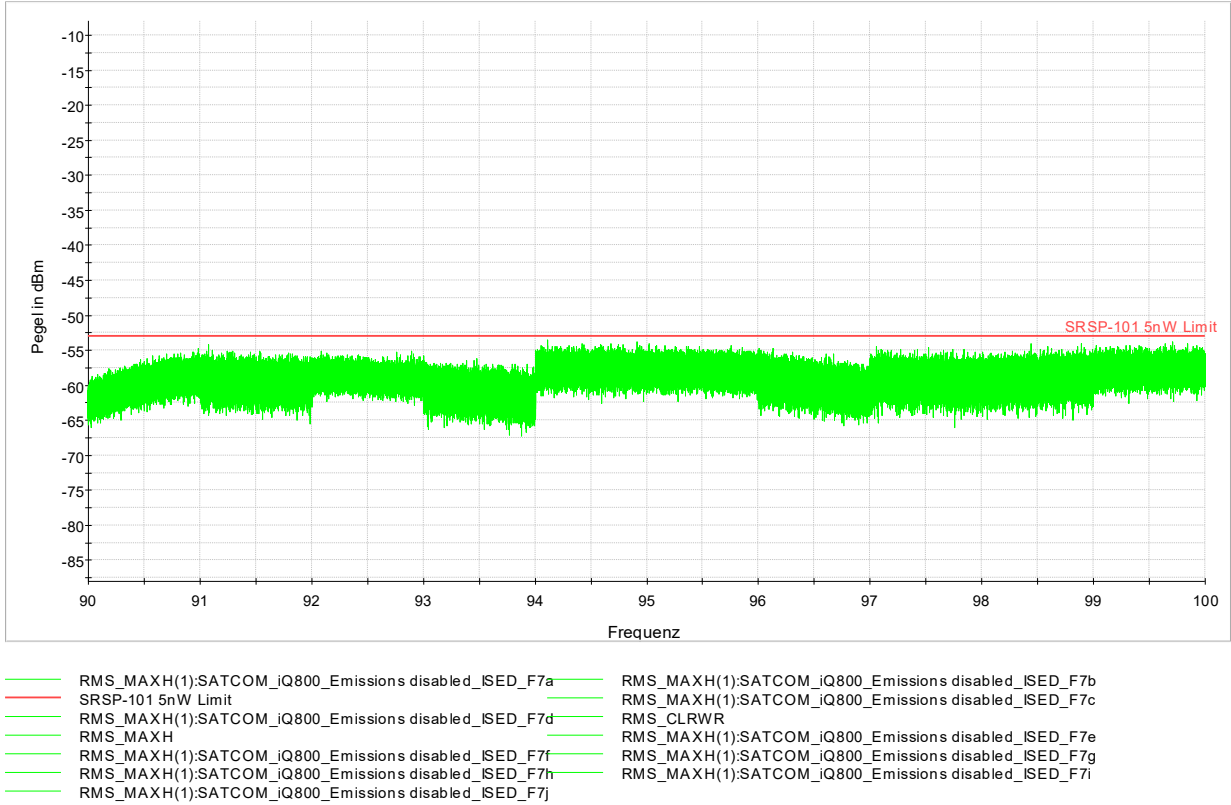


Frequency range 60 – 90 GHz iQ800 mode:

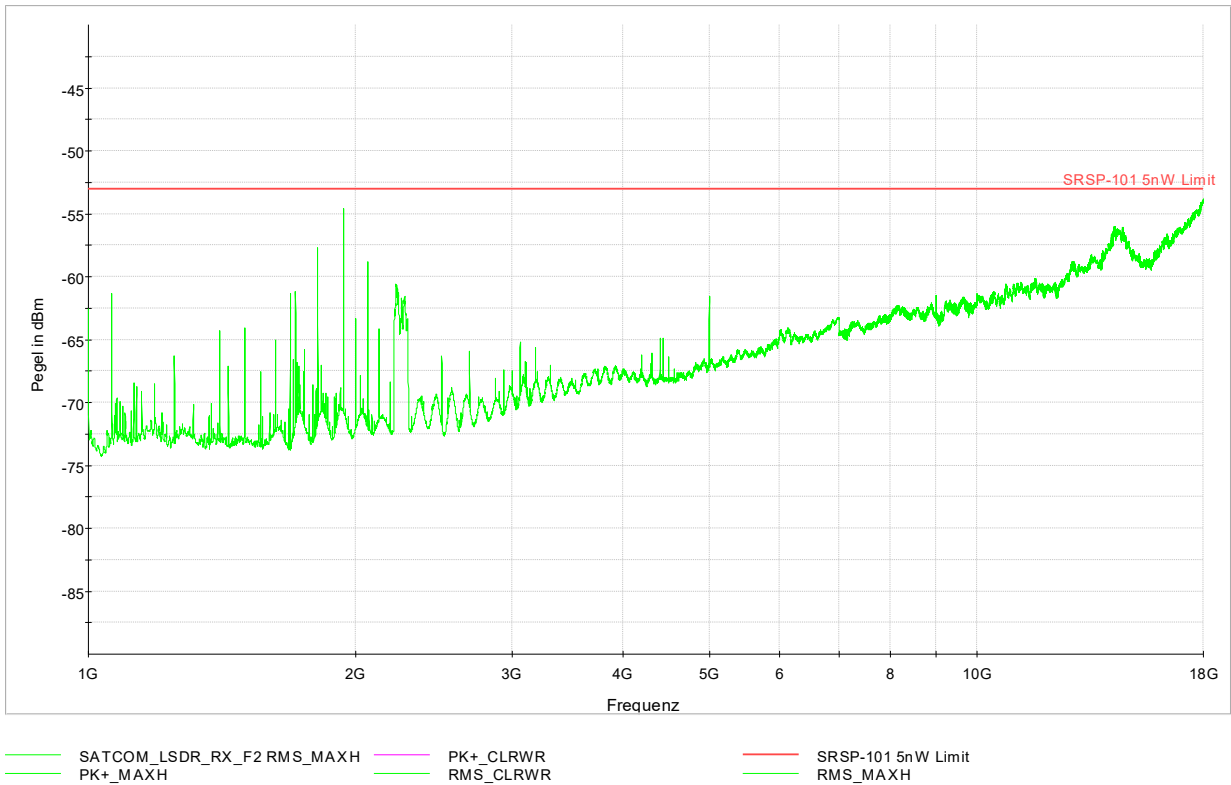


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| RMS_MAXH(1):SATCOM_iQ800_Emissions Disabled_ISED_F6a | RMS_MAXH(1):SATCOM_iQ800_Emissions Disabled_ISED_F6b |
| SRSP-101 5nW Limit | RMS_MAXH(1):SATCOM_iQ800_Emissions Disabled_ISED_F6c |
| RMS_MAXH(1):SATCOM_iQ800_Emissions Disabled_ISED_F6d | RMS_CLRWR |
| RMS_MAXH | RMS_MAXH(1):SATCOM_iQ800_Emissions Disabled_ISED_F6e |
| RMS_MAXH(1):SATCOM_iQ800_Emissions Disabled_ISED_F6f | RMS_MAXH(1):SATCOM_iQ800_Emissions disabled_ISED_F5g |
| RMS_MAXH(1):SATCOM_iQ800_Emissions disabled_ISED_F5h | RMS_MAXH(1):SATCOM_iQ800_Emissions disabled_ISED_F5i |
| RMS_MAXH(1):SATCOM_iQ800_Emissions disabled_ISED_F5j | RMS_MAXH(1):SATCOM_iQ800_Emissions disabled_ISED_F5k |
| RMS_MAXH(1):SATCOM_iQ800_Emissions disabled_ISED_F5l | RMS_MAXH(1):SATCOM_iQ800_Emissions disabled_ISED_F5m |
| RMS_MAXH(1):SATCOM_iQ800_Emissions disabled_ISED_F5n | |

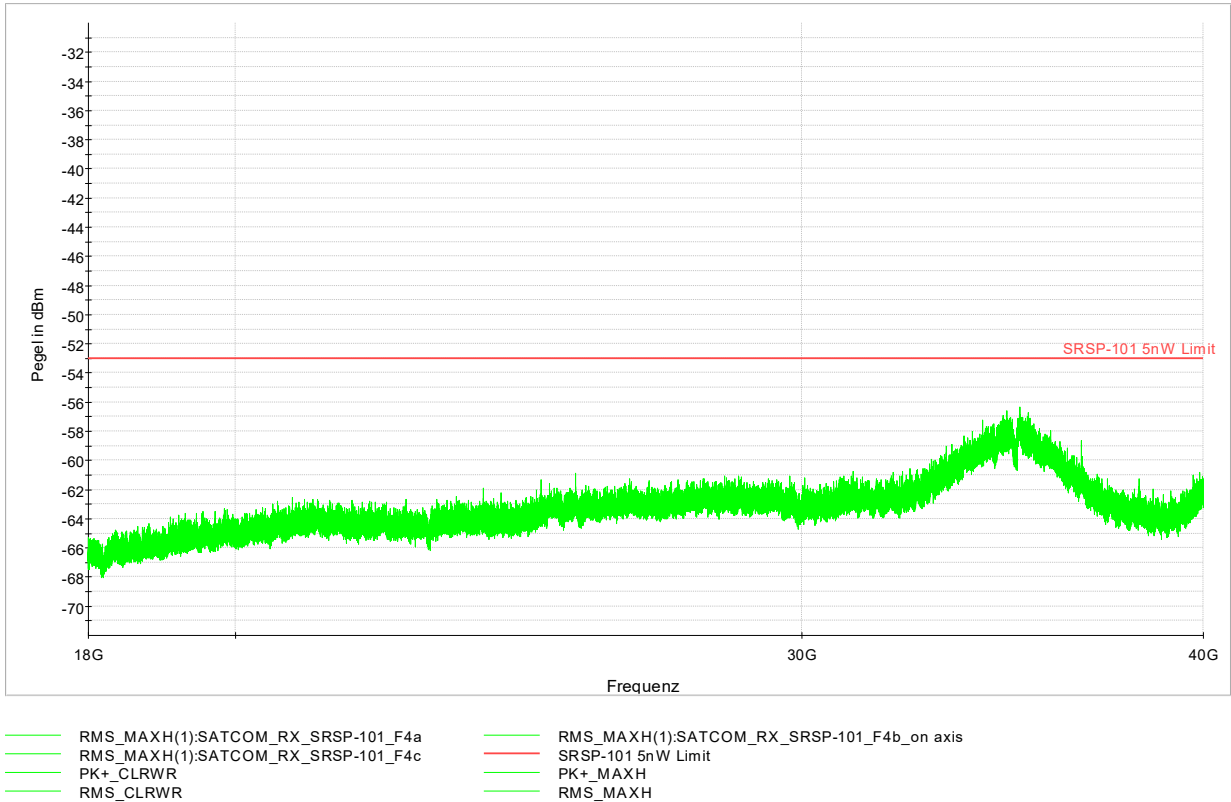
Frequency range 90 – 100 GHz iQ800 mode:



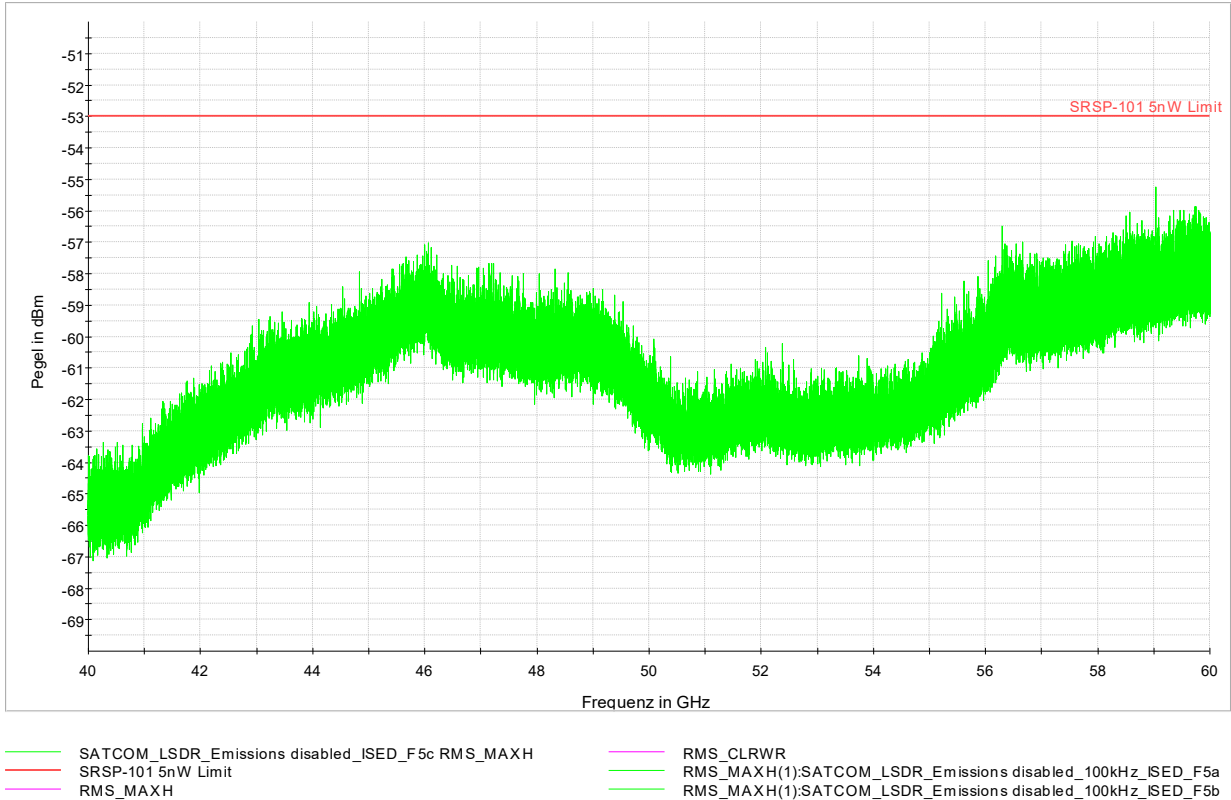
Frequency range 1 – 18 GHz LSDR mode:



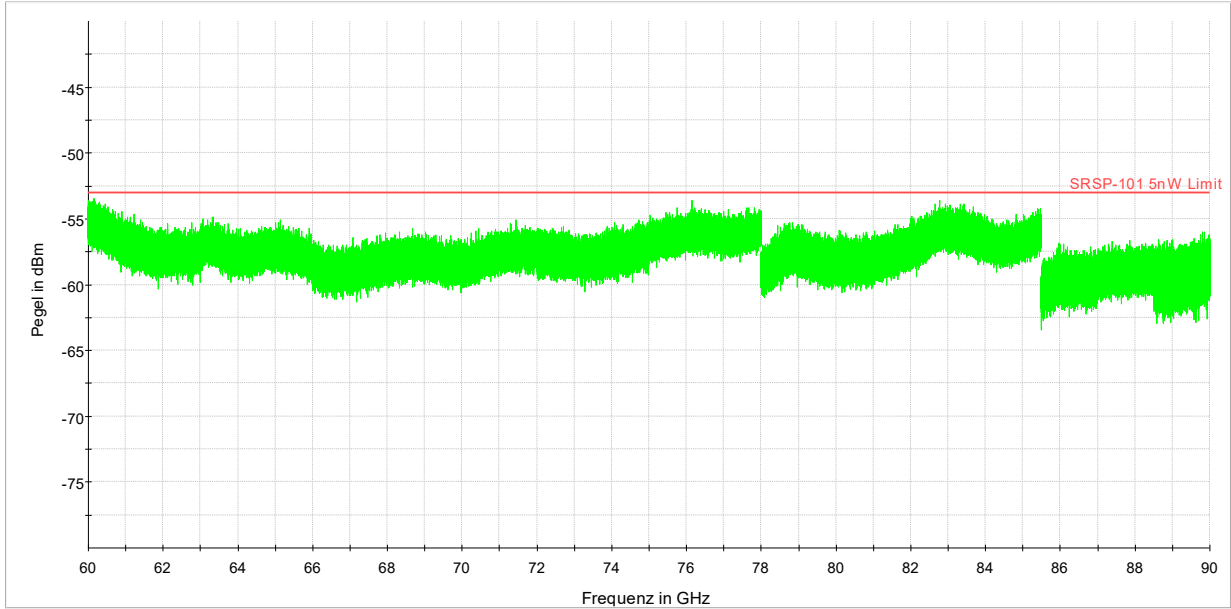
Frequency range 18 – 40 GHz LSDR mode:



Frequency range 40 – 60 GHz LSDR mode:



Frequency range 60 – 90 GHz LSDR mode:



- | | |
|---|---|
| SRSP-101 5nW Limit | RMS_MAXH(1):SATCOM_LSDR_Emissions disabled_ISED_F6a |
| RMS_MAXH(1):SATCOM_LSDR_Emissions disabled_ISED_F6b | RMS_MAXH(1):SATCOM_LSDR_Emissions disabled_ISED_F6c |
| RMS_MAXH(1):SATCOM_LSDR_Emissions disabled_ISED_F6d | RMS_MAXH(1):SATCOM_LSDR_Emissions disabled_ISED_F6e |
| RMS_MAXH(1):SATCOM_LSDR_Emissions disabled_ISED_F6f | RMS_MAXH(1):SATCOM_LSDR_Emissions disabled_ISED_F6g |
| RMS_MAXH(1):SATCOM_LSDR_Emissions disabled_ISED_F6h | RMS_MAXH(1):SATCOM_LSDR_Emissions disabled_ISED_F6i |
| RMS_MAXH(1):SATCOM_LSDR_Emissions disabled_ISED_F6j | RMS_MAXH(1):SATCOM_LSDR_Emissions disabled_ISED_F6k |
| RMS_MAXH(1):SATCOM_LSDR_Emissions disabled_ISED_F6l | RMS_MAXH(1):SATCOM_LSDR_Emissions disabled_ISED_F6m |
| RMS_MAXH(1):SATCOM_LSDR_Emissions disabled_ISED_F6n | |

Frequency range 90 – 100 GHz LSDR mode:

