

Verification of Mixer

Identification

Object R&S FS-Z60
Rise number 503332
Place C2M C609
Datum 2018-05-09
Performed by Martin Forsberg/ Tomas Lennhager

Equipment

Signal and spectrum analyser with external mixer	Rohde & Schwarz FSW 43	2Hz - 43 GHz	902073
Power meter	Agilent E4418B	-	C607
Power sensor	Agilent W8487A	50M – 50 GHz	Tool 723
Power sensor	Agilent W8486A	50 – 75 GHz	Tool 726
Network Analyzer	Keysight PNA-X	10 MHz – 67 GHz	Tool 614

RISE Research Institutes of Sweden AB Elektronik - EMC

Performed by

Examined by

Tomas Lennhager

Monika Fuller

Resultat

Frequency	Pin	P meas	Corr PM	Calc CL	Nom CL	Diff
GHz	dBm	dBm	dBm	dB	dB	dB
40	-18,27	-39,71	-39,41	21,14	19,8	-1,34
41,6	-18,6	-38,53	-38,23	19,63	19,6	-0,03
43,3	-19,02	-39,05	-38,75	19,73	20	0,27
44,9	-18,71	-39,6	-39,3	20,59	19,2	-1,39
46,5	-18,81	-39,76	-39,46	20,65	18,9	-1,75
48,2	-19,28	-38,22	-37,92	18,64	18,4	-0,24
49,8	-19,1	-37,89	-37,59	18,49	17,7	-0,79
51,4	-17,6	-37,88	-37,58	19,98	18,1	-1,88
53,1	-17,8	-37,88	-37,58	19,78	18,1	-1,68
54,7	-18,7	-38,62	-38,32	19,62	18,6	-1,02
56,3	-17,8	-40,26	-39,96	22,16	19,2	-2,96
57,5	-17,9	-43,38	-43,08	25,18	22,5	-2,68

The measured Conversion Loss is within tolerance and the mixer complies with its specification.