

Measurement Results

No.1-3977/22-02-08_Annex_MR_A1

Test logging

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Test/s performed:

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FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	834
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	837
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	840
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	842
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	845
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	848
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	850
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	853
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	856
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	858
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	861
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	864
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	867
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	870
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	873
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	876
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	879
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	882
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	884
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	887
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	890
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	892

FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	895
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	898
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	900
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	903
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	910
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	915
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	918
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	921
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	923
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	926
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	929
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	931
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	934
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	937
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	939
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	942
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	945
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	947
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	950
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	953
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	955
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	958
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	961
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	963
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	966
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	969
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	971
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	974
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	977
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	979
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	982
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	985
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	987
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	990
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	993
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	996
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	999
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1002
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1005
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1008
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1011
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1013
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1016
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1019

FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1021
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1024
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1027
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1029
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1032
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1035
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1037
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1040
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1043
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1045
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1048
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1051
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1053
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1056
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1059
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1062
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1065
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1068
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1071
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1074
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1077
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1079
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1082
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1085
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1087
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1090
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1093
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1095
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1098
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1101
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1103
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1106
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1109
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1111
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1114
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1117
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1119
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1122
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1125
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1128
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1131
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1134
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1137
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1140

FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1143
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1145
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1148
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1151
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1153
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1156
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1159
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1161
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1164
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1167
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1169
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1172
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1175
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1177
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1180
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1183
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1185
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1188
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1191
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1194
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1197
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1200
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1203
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1206
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1209
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1211
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1214
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1217
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1219
FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30	1222
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30	1225
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30	1227

EUT Information

EUT DEFINITION	
Manufacturer	Sagemcom Broadband SAS
Type	Fast 5688W
Serial Number	NI
Setup Number	1.0
Version SW	NI
Version FW	NI
Version HW	NI
Comment 1	
Comment 2	
Temperature [°C] Min	-20
Temperature [°C] Nom	20
Temperature [°C] Max	55
Voltage [V] Min	3.3
Voltage [V] Nom	3.8
Voltage [V] Max	4.2

FCC/ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT

Test References	
TC Start	21.04.2022 14:44:30
Ambit Temp [°C] Humidity [rel%]	26.1 24
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Bandwidths - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	16QAM
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	False Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2506.02 MHz (26dB)

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	15.64	dBm	INFO
Ref. Frequency	---	---	2513.110	MHz	INFO

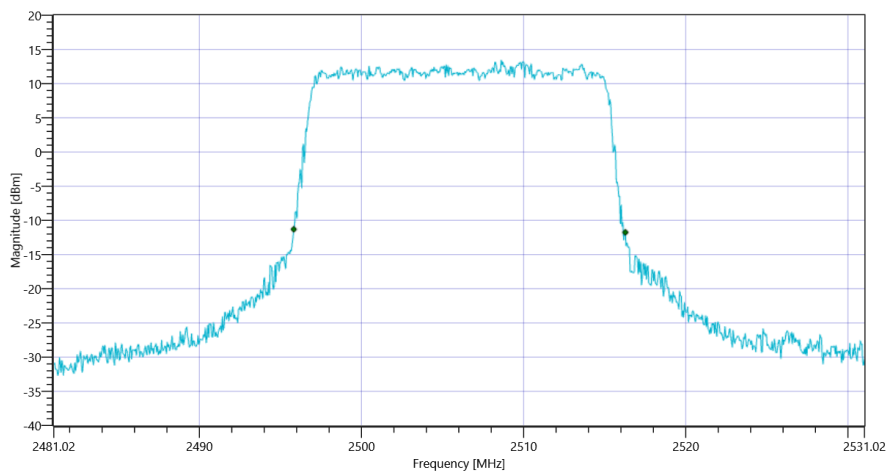
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.64 0 40
Start [MHz] Stop [MHz]	2481.020 2531.020
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2 1500 1001 SWE

RESULT 26 dB

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.45	MHz	INFO

Plot: Bandwidth only



FCC-ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT 26dB

Test at TX 2506.02 MHz (99%)

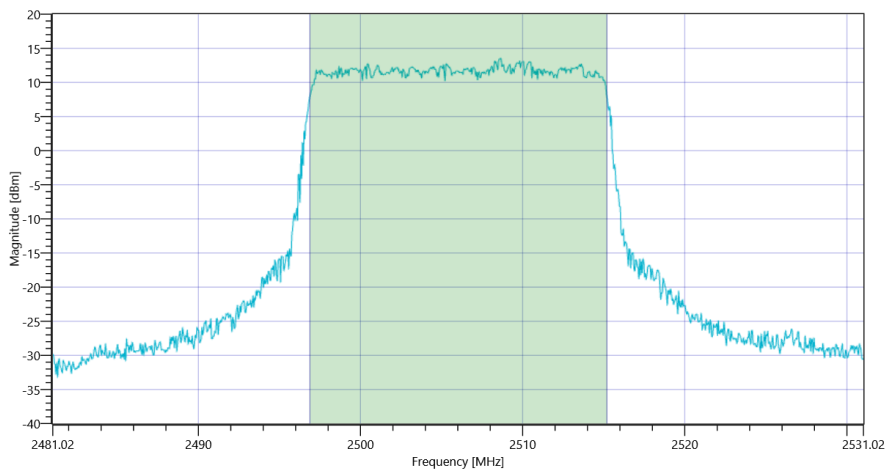
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.64 0 40
Start [MHz] Stop [MHz]	2481.020 2531.020
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS VIEW
Sweep: Time [ms] Count Points per Section Type	1 1500 1001 SWE

RESULT 99%

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.382	MHz	INFO

Plot: Bandwidth only



FCC-ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT 26dB

General verdict

PASS

FCC/ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT

Test References	
TC Start	21.04.2022 14:49:42
Ambit Temp [°C] Humidity [rel%]	26.1 24
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Bandwidths - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	16QAM
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2506.02
Frequency mid to test	True Freq [MHz] 2592.99
Frequency high to test	False Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2592.99 MHz (26dB)

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	15.42	dBm	INFO
Ref. Frequency	---	---	2585.900	MHz	INFO

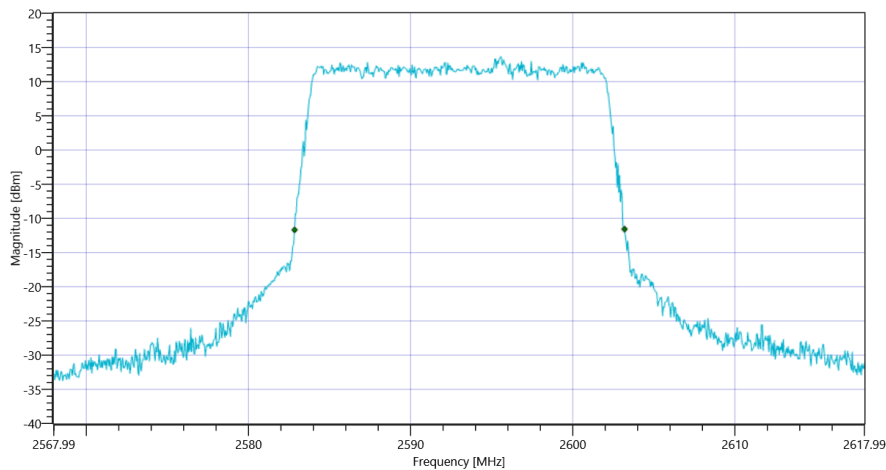
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.42 0 40
Start [MHz] Stop [MHz]	2567.990 2617.990
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2 1500 1001 SWE

RESULT 26 dB

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.35	MHz	INFO

Plot: Bandwidth only



FCC-ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT 26dB

Test at TX 2592.99 MHz (99%)

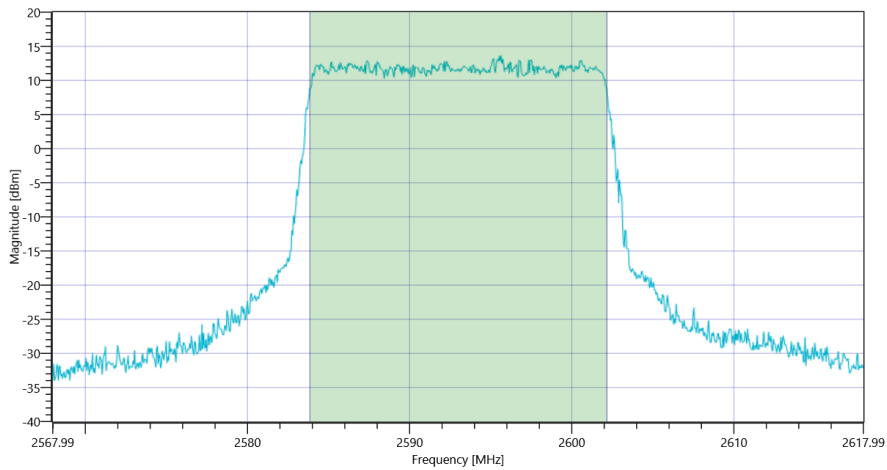
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.42 0 40
Start [MHz] Stop [MHz]	2567.990 2617.990
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS VIEW
Sweep: Time [ms] Count Points per Section Type	1 1500 1001 SWE

RESULT 99%

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.382	MHz	INFO

Plot: Bandwidth only



General verdict

PASS

FCC/ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT

Test References	
TC Start	21.04.2022 14:56:06
Ambit Temp [°C] Humidity [rel%]	26.3 24
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Bandwidths - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	16QAM
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	True Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2679.99 MHz (26dB)

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	15.62	dBm	INFO
Ref. Frequency	---	---	2682.190	MHz	INFO

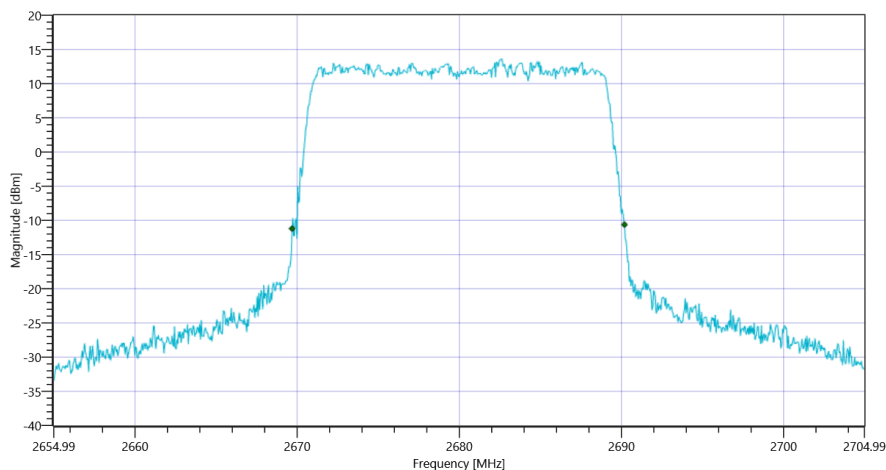
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.62 0 40
Start [MHz] Stop [MHz]	2654.990 2704.990
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2 1500 1001 SWE

RESULT 26 dB

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.5	MHz	INFO

Plot: Bandwidth only



FCC-ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT 26dB

Test at TX 2679.99 MHz (99%)

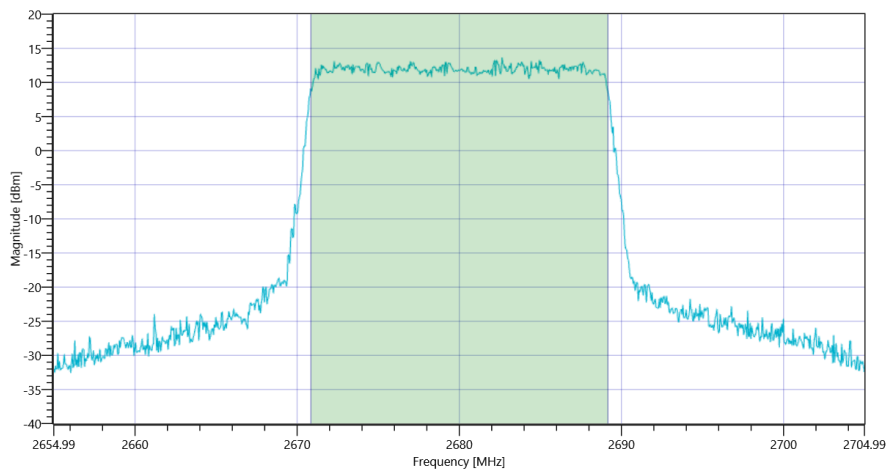
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.62 0 40
Start [MHz] Stop [MHz]	2654.990 2704.990
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS VIEW
Sweep: Time [ms] Count Points per Section Type	1 1500 1001 SWE

RESULT 99%

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.382	MHz	INFO

Plot: Bandwidth only



General verdict

PASS

FCC/ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT

Test References	
TC Start	21.04.2022 14:45:25
Ambit Temp [°C] Humidity [rel%]	26.1 24
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Bandwidths - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	64QAM
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	False Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2506.02 MHz (26dB)

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	15.13	dBm	INFO
Ref. Frequency	---	---	2513.110	MHz	INFO

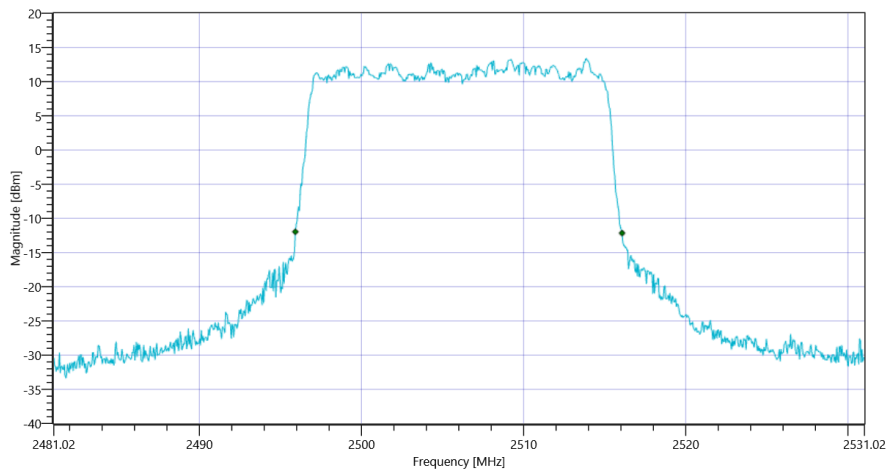
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.13 0 40
Start [MHz] Stop [MHz]	2481.020 2531.020
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2 1500 1001 SWE

RESULT 26 dB

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.15	MHz	INFO

Plot: Bandwidth only



FCC-ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT 26dB

Test at TX 2506.02 MHz (99%)

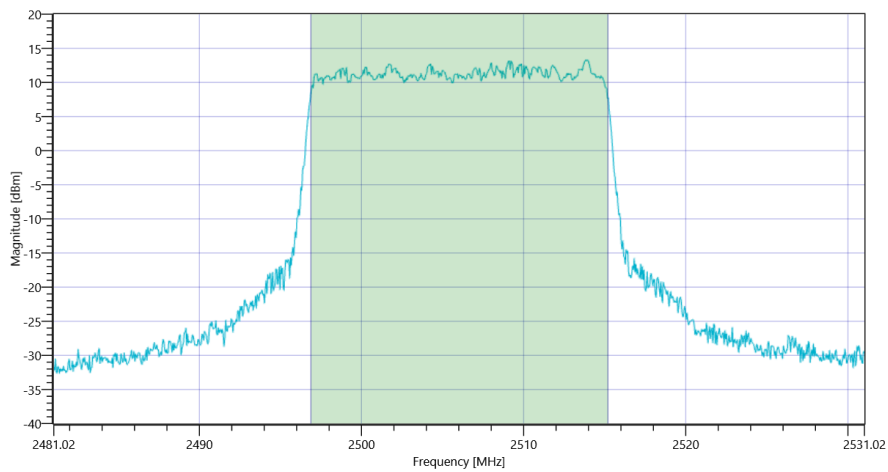
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.13 0 40
Start [MHz] Stop [MHz]	2481.020 2531.020
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS VIEW
Sweep: Time [ms] Count Points per Section Type	1 1500 1001 SWE

RESULT 99%

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.282	MHz	INFO

Plot: Bandwidth only



FCC-ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT 26dB

General verdict

PASS

FCC/ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT

Test References	
TC Start	21.04.2022 14:50:39
Ambit Temp [°C] Humidity [rel%]	26.1 24
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Bandwidths - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	64QAM
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2506.02
Frequency mid to test	True Freq [MHz] 2592.99
Frequency high to test	False Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2592.99 MHz (26dB)

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	14.87	dBm	INFO
Ref. Frequency	---	---	2598.680	MHz	INFO

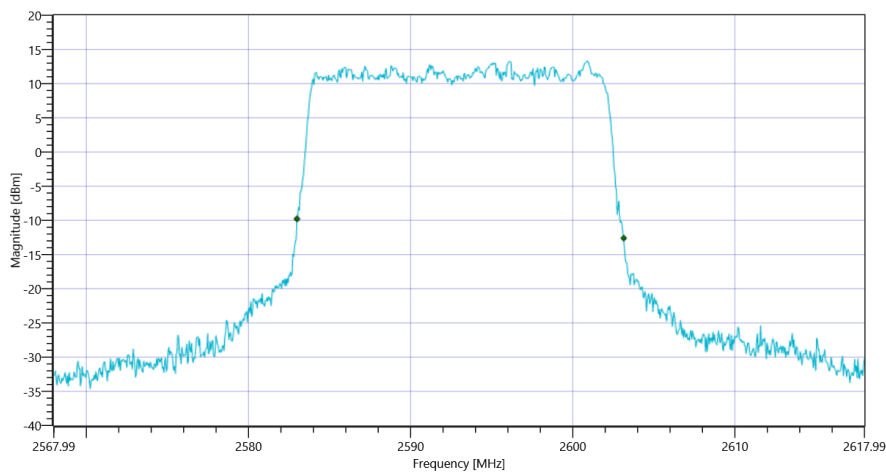
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	22.87 0 40
Start [MHz] Stop [MHz]	2567.990 2617.990
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2 1500 1001 SWE

RESULT 26 dB

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.15	MHz	INFO

Plot: Bandwidth only



FCC-ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT 26dB

Test at TX 2592.99 MHz (99%)

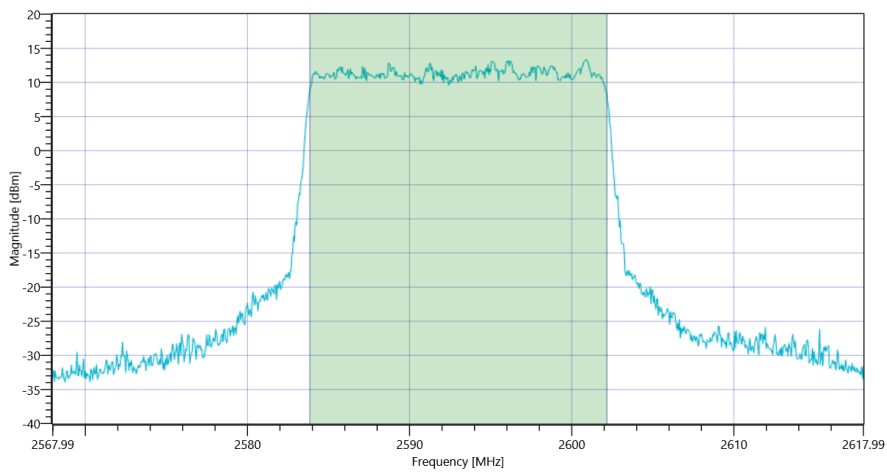
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	22.87 0 40
Start [MHz] Stop [MHz]	2567.990 2617.990
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS VIEW
Sweep: Time [ms] Count Points per Section Type	1 1500 1001 SWE

RESULT 99%

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.332	MHz	INFO

Plot: Bandwidth only



FCC-ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT 26dB

General verdict

PASS

FCC/ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT

Test References	
TC Start	21.04.2022 14:57:36
Ambit Temp [°C] Humidity [rel%]	26.2 24
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Bandwidths - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	64QAM
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	True Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2679.99 MHz (26dB)

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	15.68	dBm	INFO
Ref. Frequency	---	---	2685.880	MHz	INFO

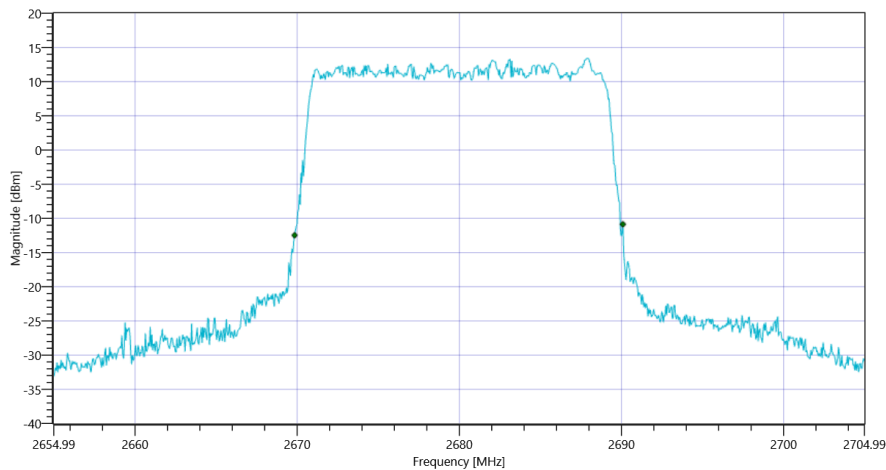
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.68 0 40
Start [MHz] Stop [MHz]	2654.990 2704.990
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2 1500 1001 SWE

RESULT 26 dB

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.25	MHz	INFO

Plot: Bandwidth only



FCC-ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT 26dB

Test at TX 2679.99 MHz (99%)

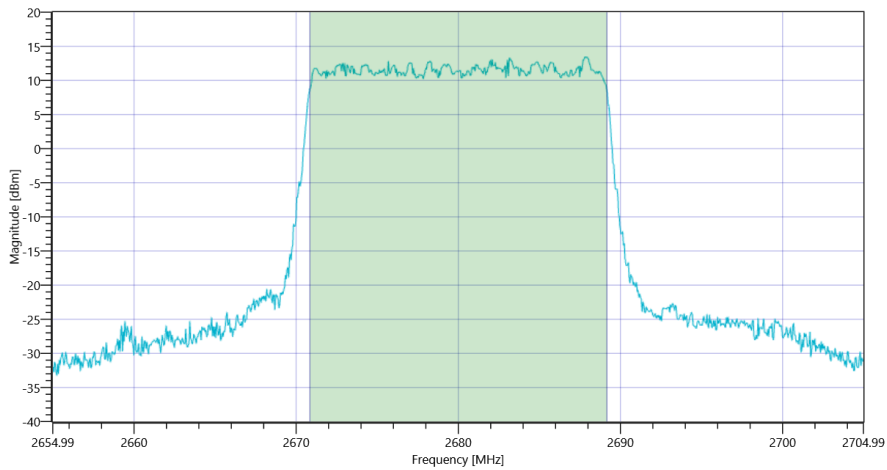
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.68 0 40
Start [MHz] Stop [MHz]	2654.990 2704.990
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS VIEW
Sweep: Time [ms] Count Points per Section Type	1 1500 1001 SWE

RESULT 99%

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.382	MHz	INFO

Plot: Bandwidth only



General verdict

PASS

FCC/ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT

Test References	
TC Start	21.04.2022 14:43:16
Ambit Temp [°C] Humidity [rel%]	26.1 24
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Bandwidths - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	QPSK
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	False Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2506.02 MHz (26dB)

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	15.54	dBm	INFO
Ref. Frequency	---	---	2510.820	MHz	INFO

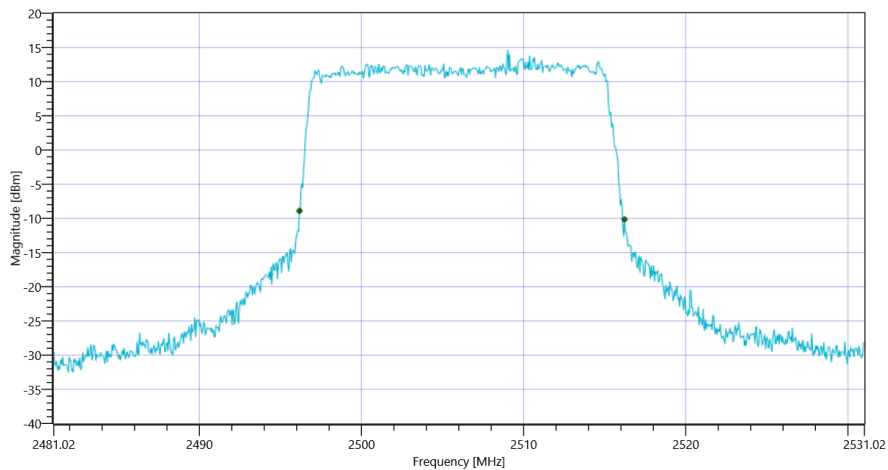
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.54 0 40
Start [MHz] Stop [MHz]	2481.020 2531.020
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2 1500 1001 SWE

RESULT 26 dB

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.05	MHz	INFO

Plot: Bandwidth only



FCC-ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT 26dB

Test at TX 2506.02 MHz (99%)

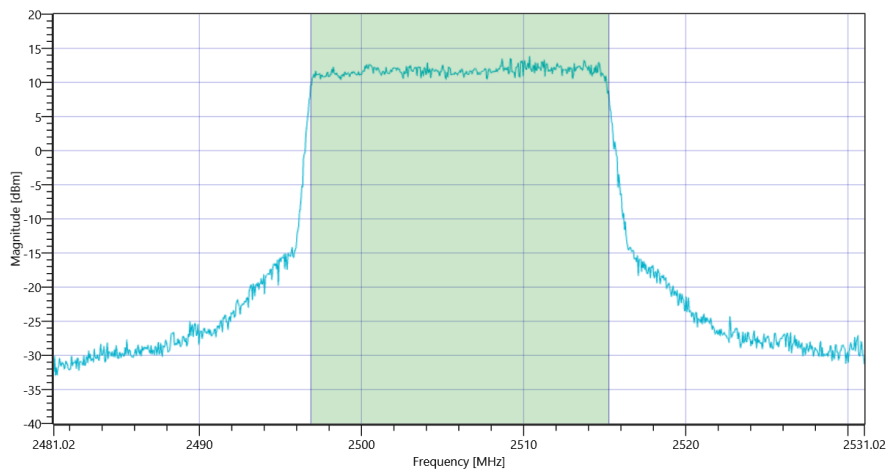
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.54 0 40
Start [MHz] Stop [MHz]	2481.020 2531.020
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS VIEW
Sweep: Time [ms] Count Points per Section Type	1 1500 1001 SWE

RESULT 99%

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.382	MHz	INFO

Plot: Bandwidth only



FCC-ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT 26dB

General verdict

PASS

FCC/ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT

Test References	
TC Start	21.04.2022 14:52:16
Ambit Temp [°C] Humidity [rel%]	26.1 24
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Bandwidths - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	QPSK
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2506.02
Frequency mid to test	True Freq [MHz] 2592.99
Frequency high to test	False Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2592.99 MHz (26dB)

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	15.92	dBm	INFO
Ref. Frequency	---	---	2600.480	MHz	INFO

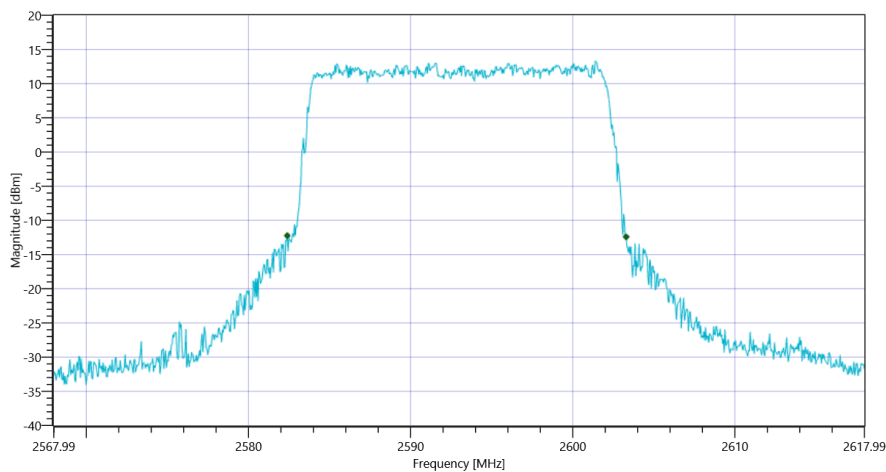
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.92 0 40
Start [MHz] Stop [MHz]	2567.990 2617.990
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2 1500 1001 SWE

RESULT 26 dB

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.9	MHz	INFO

Plot: Bandwidth only



FCC-ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT 26dB

Test at TX 2592.99 MHz (99%)

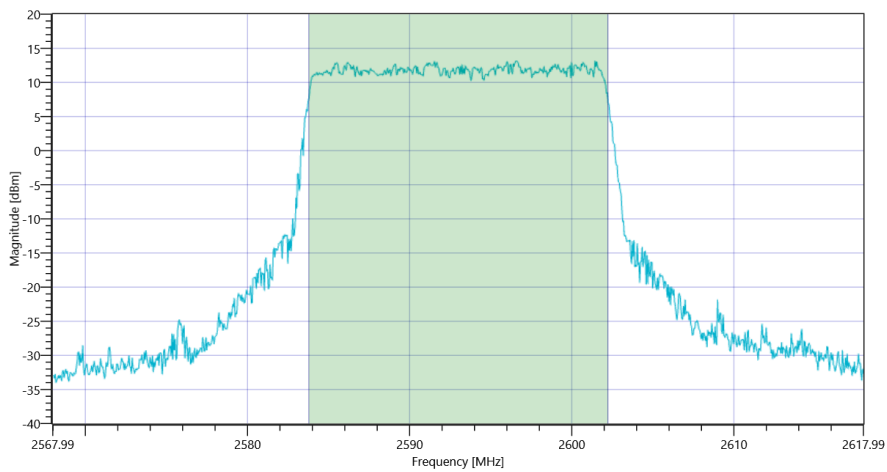
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.92 0 40
Start [MHz] Stop [MHz]	2567.990 2617.990
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS VIEW
Sweep: Time [ms] Count Points per Section Type	1 1500 1001 SWE

RESULT 99%

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.482	MHz	INFO

Plot: Bandwidth only



FCC-ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT 26dB

General verdict

PASS

FCC/ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT

Test References	
TC Start	21.04.2022 14:54:13
Ambit Temp [°C] Humidity [rel%]	26.2 24
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Bandwidths - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	QPSK
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	True Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2679.99 MHz (26dB)

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	15.93	dBm	INFO
Ref. Frequency	---	---	2681.890	MHz	INFO

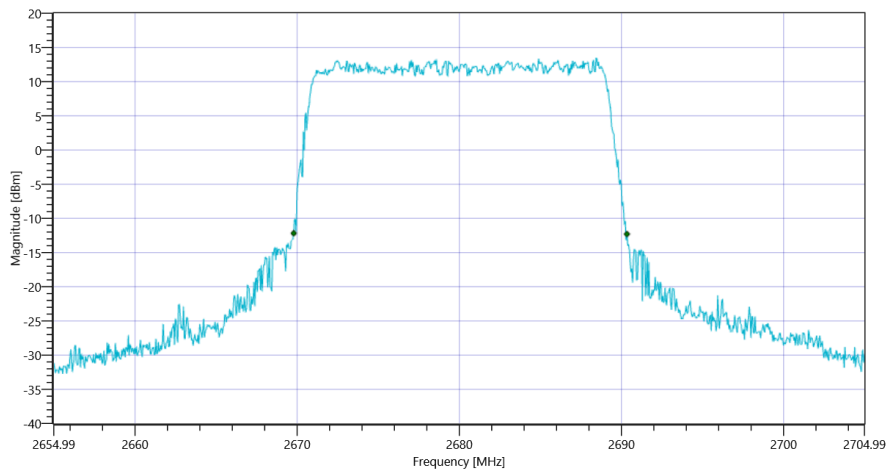
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.93 0 40
Start [MHz] Stop [MHz]	2654.990 2704.990
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2 1500 1001 SWE

RESULT 26 dB

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.55	MHz	INFO

Plot: Bandwidth only



FCC-ISED Bandwidths ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT 26dB

Test at TX 2679.99 MHz (99%)

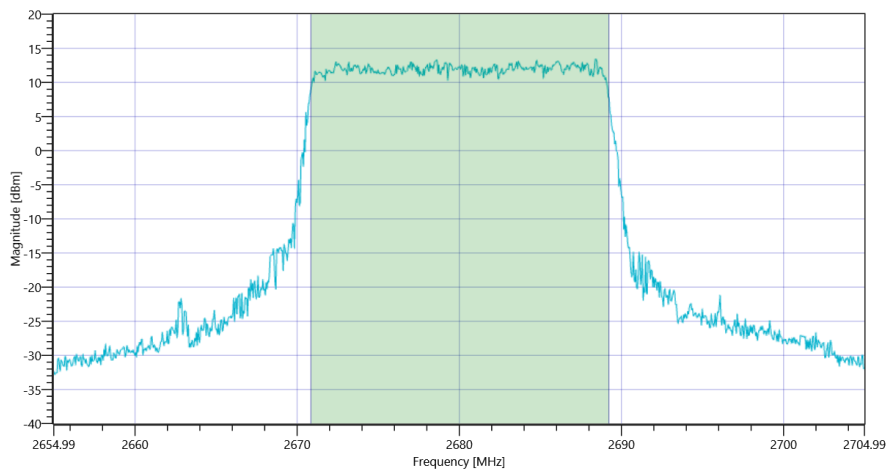
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.93 0 40
Start [MHz] Stop [MHz]	2654.990 2704.990
RBW [MHz] VBW [MHz]	0.500000 2.000000
Detector TraceMode	POS VIEW
Sweep: Time [ms] Count Points per Section Type	1 1500 1001 SWE

RESULT 99%

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.432	MHz	INFO

Plot: Bandwidth only



General verdict

PASS

FCC/ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT

Test References	
TC Start	25.04.2022 17:58:28
Ambit Temp [°C] Humidity [rel%]	28.0 30
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Block edge cond - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	16QAM
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	False Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2506.02 MHz

RESULT: Reference Power cond.

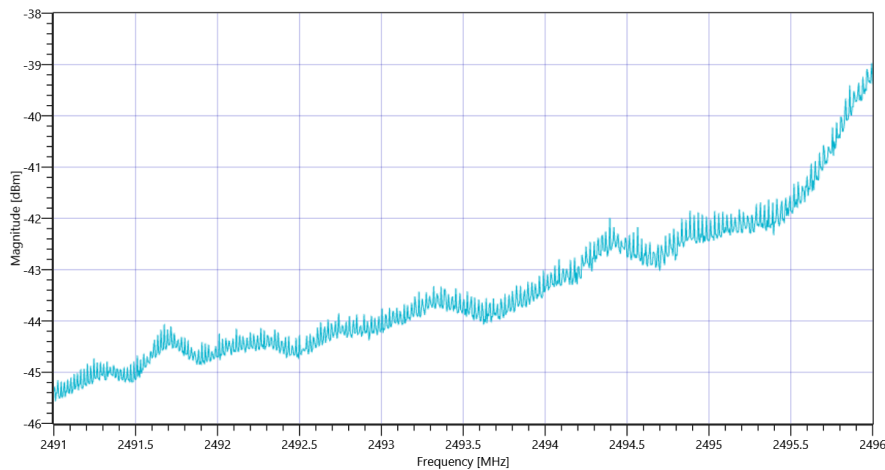
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	14.35	dBm	INFO
Ref. Frequency	---	---	2499.030	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	22.35 0 40
Start [MHz] Stop [MHz]	2491.000 2496.000
RBW [MHz] VBW [MHz]	0.200000 1.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	30000 1 1001 SWE

RESULT lower band

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2496.5	---	-13	-34.48	dBm	PASS
Frequency [MHz] 2497.5	---	-13	-35.97	dBm	PASS
Frequency [MHz] 2498.5	---	-13	-37.02	dBm	PASS
Frequency [MHz] 2499.5	---	-13	-37.66	dBm	PASS
Frequency [MHz] 2500.5	---	-13	-38.16	dBm	PASS



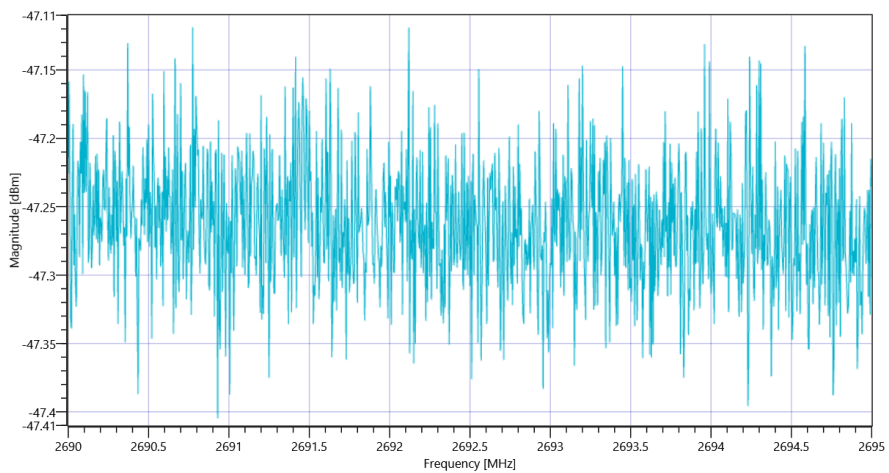
FCC-ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	22.35 0 40
Start [MHz] Stop [MHz]	2690.000 2695.000
RBW [MHz] VBW [MHz]	0.200000 1.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	30000 1 1001 SWE

RESULT upper band

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2690.5	---	-13	-40.54	dBm	PASS
Frequency [MHz] 2691.5	---	-13	-40.54	dBm	PASS
Frequency [MHz] 2692.5	---	-13	-40.55	dBm	PASS
Frequency [MHz] 2693.5	---	-13	-40.55	dBm	PASS
Frequency [MHz] 2694.5	---	-13	-40.55	dBm	PASS



FCC-ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT

General verdict

PASS

FCC/ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT

Test References	
TC Start	25.04.2022 18:17:55
Ambit Temp [°C] Humidity [rel%]	27.6 29
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Block edge cond - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	16QAM
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	True Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2679.99 MHz

RESULT: Reference Power cond.

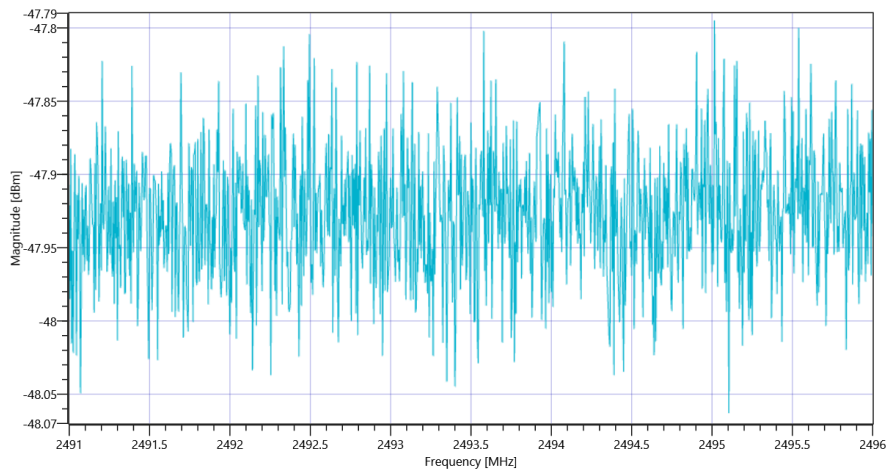
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	14.37	dBm	INFO
Ref. Frequency	---	---	2674.300	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	22.37 0 40
Start [MHz] Stop [MHz]	2491.000 2496.000
RBW [MHz] VBW [MHz]	0.200000 1.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	30000 1 1001 SWE

RESULT lower band

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2496.5	---	-13	-41.2	dBm	PASS
Frequency [MHz] 2497.5	---	-13	-41.21	dBm	PASS
Frequency [MHz] 2498.5	---	-13	-41.21	dBm	PASS
Frequency [MHz] 2499.5	---	-13	-41.21	dBm	PASS
Frequency [MHz] 2500.5	---	-13	-41.22	dBm	PASS



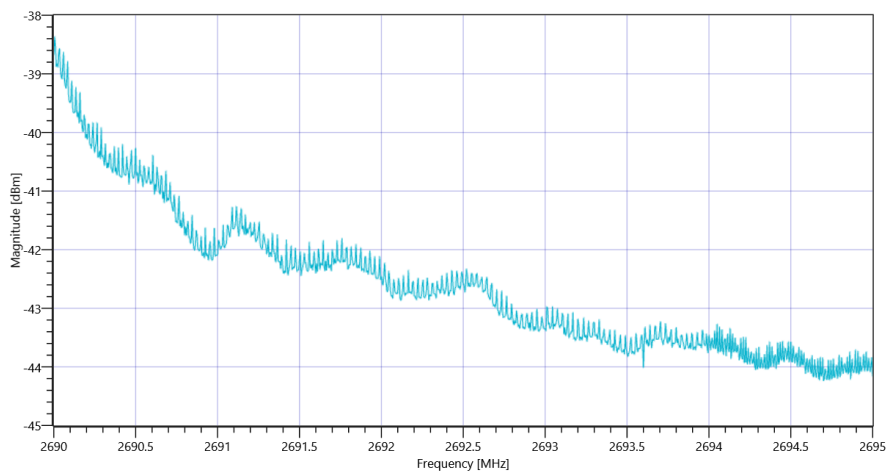
FCC-ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	22.37 0 40
Start [MHz] Stop [MHz]	2690.000 2695.000
RBW [MHz] VBW [MHz]	0.200000 1.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	30000 1 1001 SWE

RESULT upper band

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2690.5	---	-13	-33.86	dBm	PASS
Frequency [MHz] 2691.5	---	-13	-35.34	dBm	PASS
Frequency [MHz] 2692.5	---	-13	-36.09	dBm	PASS
Frequency [MHz] 2693.5	---	-13	-36.78	dBm	PASS
Frequency [MHz] 2694.5	---	-13	-37.16	dBm	PASS



FCC-ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT

General verdict

PASS

FCC/ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT

Test References	
TC Start	25.04.2022 18:02:04
Ambit Temp [°C] Humidity [rel%]	28.0 29
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Block edge cond - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	64QAM
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	False Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2506.02 MHz

RESULT: Reference Power cond.

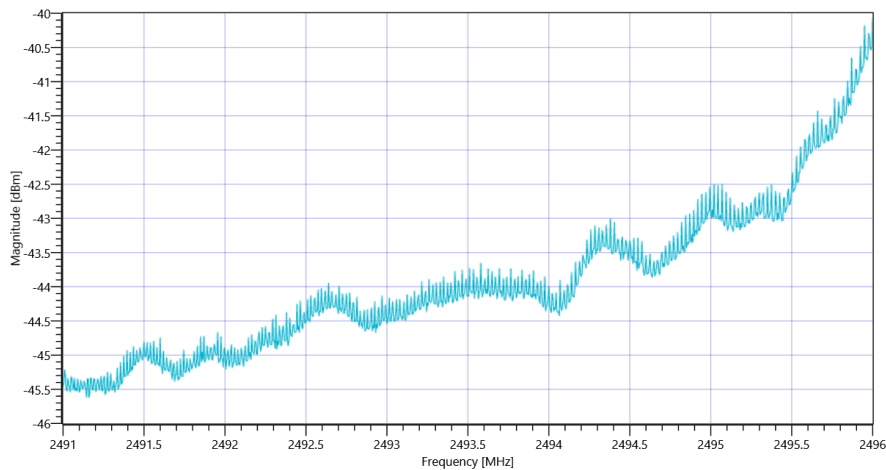
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	15.18	dBm	INFO
Ref. Frequency	---	---	2504.320	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.18 0 40
Start [MHz] Stop [MHz]	2491.000 2496.000
RBW [MHz] VBW [MHz]	0.200000 1.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	30000 1 1001 SWE

RESULT lower band

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2496.5	---	-13	-35.43	dBm	PASS
Frequency [MHz] 2497.5	---	-13	-36.84	dBm	PASS
Frequency [MHz] 2498.5	---	-13	-37.42	dBm	PASS
Frequency [MHz] 2499.5	---	-13	-37.87	dBm	PASS
Frequency [MHz] 2500.5	---	-13	-38.49	dBm	PASS



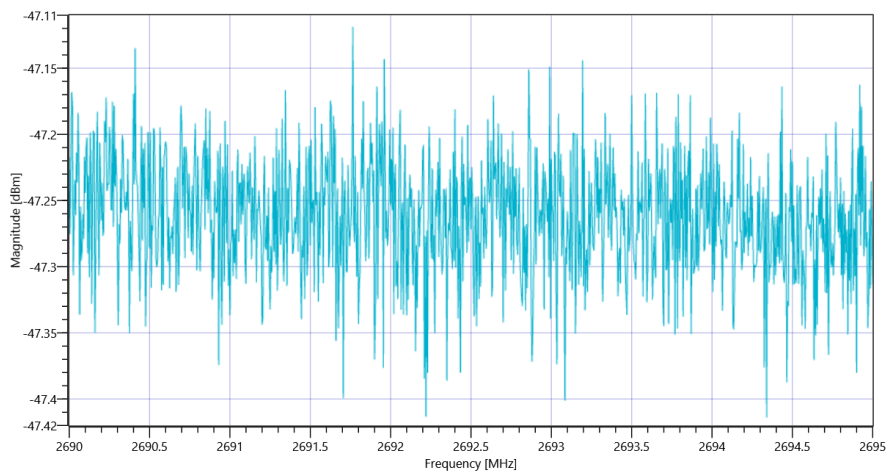
FCC-ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.18 0 40
Start [MHz] Stop [MHz]	2690.000 2695.000
RBW [MHz] VBW [MHz]	0.200000 1.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	30000 1 1001 SWE

RESULT upper band

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2690.5	---	-13	-40.53	dBm	PASS
Frequency [MHz] 2691.5	---	-13	-40.54	dBm	PASS
Frequency [MHz] 2692.5	---	-13	-40.55	dBm	PASS
Frequency [MHz] 2693.5	---	-13	-40.55	dBm	PASS
Frequency [MHz] 2694.5	---	-13	-40.56	dBm	PASS



FCC-ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT

General verdict

PASS

FCC/ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT

Test References	
TC Start	25.04.2022 18:21:37
Ambit Temp [°C] Humidity [rel%]	27.5 29
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Block edge cond - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	64QAM
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	True Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2679.99 MHz

RESULT: Reference Power cond.

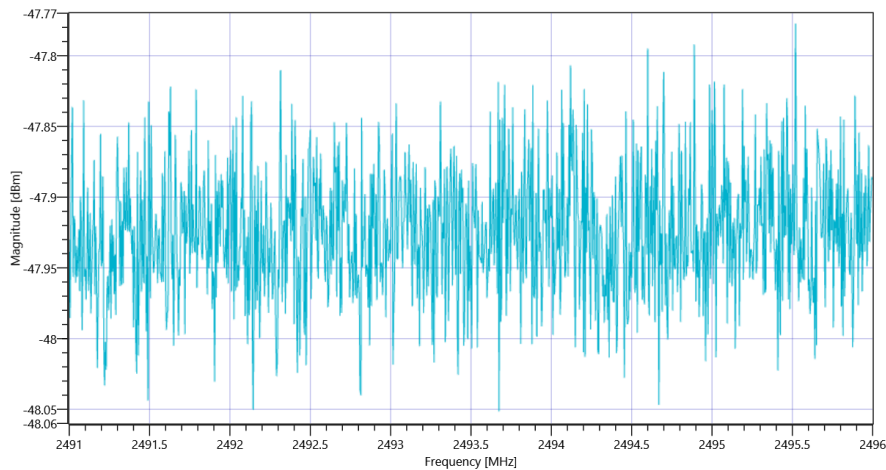
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	14.88	dBm	INFO
Ref. Frequency	---	---	2678.190	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	22.88 0 40
Start [MHz] Stop [MHz]	2491.000 2496.000
RBW [MHz] VBW [MHz]	0.200000 1.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	30000 1 1001 SWE

RESULT lower band

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2496.5	---	-13	-41.2	dBm	PASS
Frequency [MHz] 2497.5	---	-13	-41.21	dBm	PASS
Frequency [MHz] 2498.5	---	-13	-41.21	dBm	PASS
Frequency [MHz] 2499.5	---	-13	-41.21	dBm	PASS
Frequency [MHz] 2500.5	---	-13	-41.22	dBm	PASS



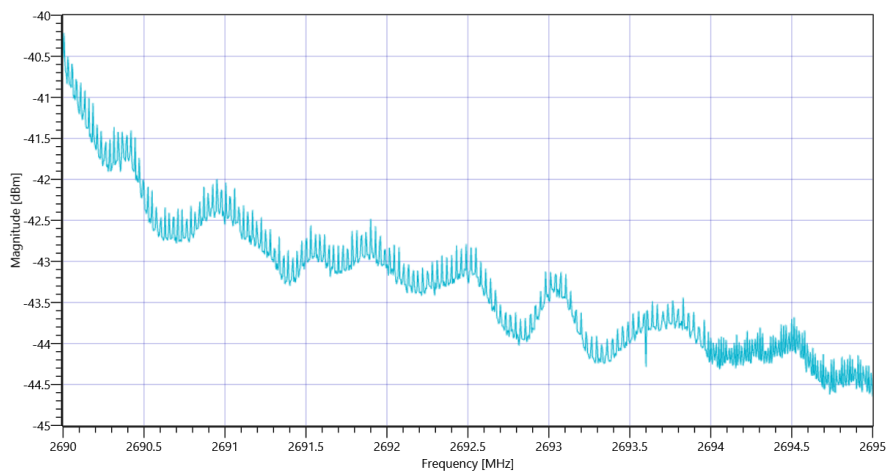
FCC-ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	22.88 0 40
Start [MHz] Stop [MHz]	2690.000 2695.000
RBW [MHz] VBW [MHz]	0.200000 1.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	30000 1 1001 SWE

RESULT upper band

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2690.5	---	-13	-35.22	dBm	PASS
Frequency [MHz] 2691.5	---	-13	-36.15	dBm	PASS
Frequency [MHz] 2692.5	---	-13	-36.66	dBm	PASS
Frequency [MHz] 2693.5	---	-13	-37.1	dBm	PASS
Frequency [MHz] 2694.5	---	-13	-37.49	dBm	PASS



FCC-ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT

General verdict

PASS

FCC/ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT

Test References	
TC Start	25.04.2022 17:49:32
Ambit Temp [°C] Humidity [rel%]	28.0 31
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Block edge cond - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	QPSK
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	False Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2506.02 MHz

RESULT: Reference Power cond.

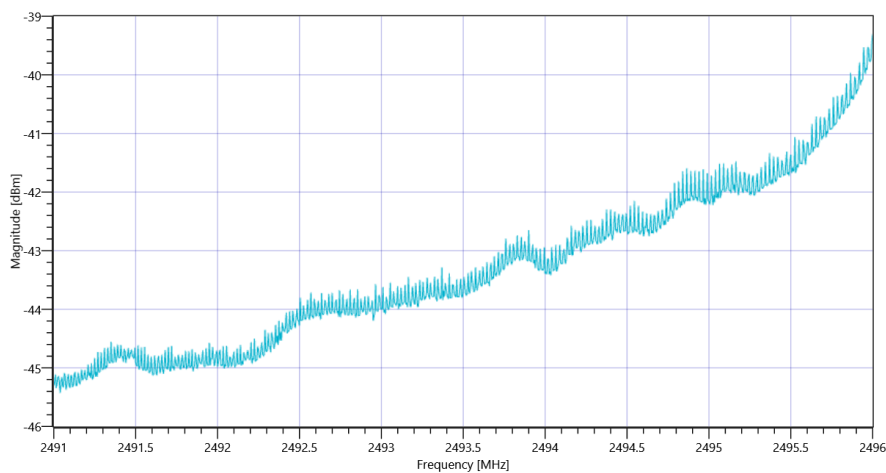
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	14.43	dBm	INFO
Ref. Frequency	---	---	2514.310	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	22.43 0 40
Start [MHz] Stop [MHz]	2491.000 2496.000
RBW [MHz] VBW [MHz]	0.200000 1.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	30000 1 1001 SWE

RESULT lower band

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2496.5	---	-13	-34.5	dBm	PASS
Frequency [MHz] 2497.5	---	-13	-35.86	dBm	PASS
Frequency [MHz] 2498.5	---	-13	-36.8	dBm	PASS
Frequency [MHz] 2499.5	---	-13	-37.59	dBm	PASS
Frequency [MHz] 2500.5	---	-13	-38.25	dBm	PASS



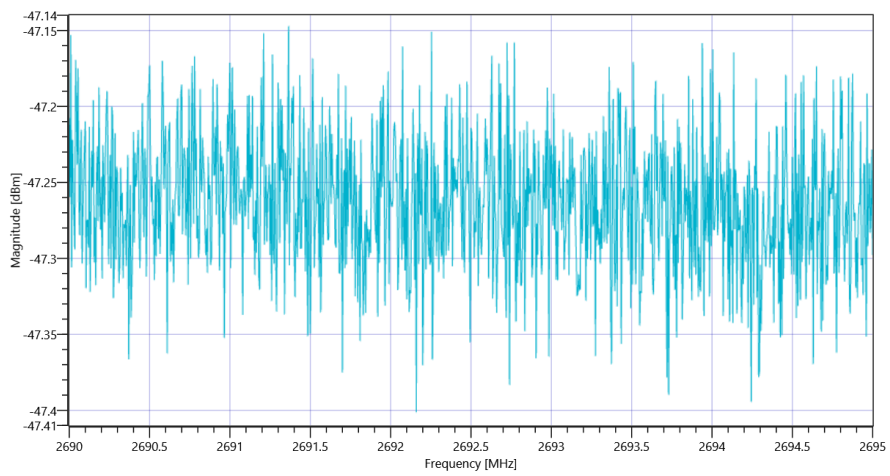
FCC-ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	22.43 0 40
Start [MHz] Stop [MHz]	2690.000 2695.000
RBW [MHz] VBW [MHz]	0.200000 1.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	30000 1 1001 SWE

RESULT upper band

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2690.5	---	-13	-40.54	dBm	PASS
Frequency [MHz] 2691.5	---	-13	-40.54	dBm	PASS
Frequency [MHz] 2692.5	---	-13	-40.55	dBm	PASS
Frequency [MHz] 2693.5	---	-13	-40.55	dBm	PASS
Frequency [MHz] 2694.5	---	-13	-40.56	dBm	PASS



FCC-ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT

General verdict	PASS
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FCC/ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT

Test References	
TC Start	25.04.2022 18:13:16
Ambit Temp [°C] Humidity [rel%]	27.7 29
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Block edge cond - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	QPSK
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	True Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2679.99 MHz

RESULT: Reference Power cond.

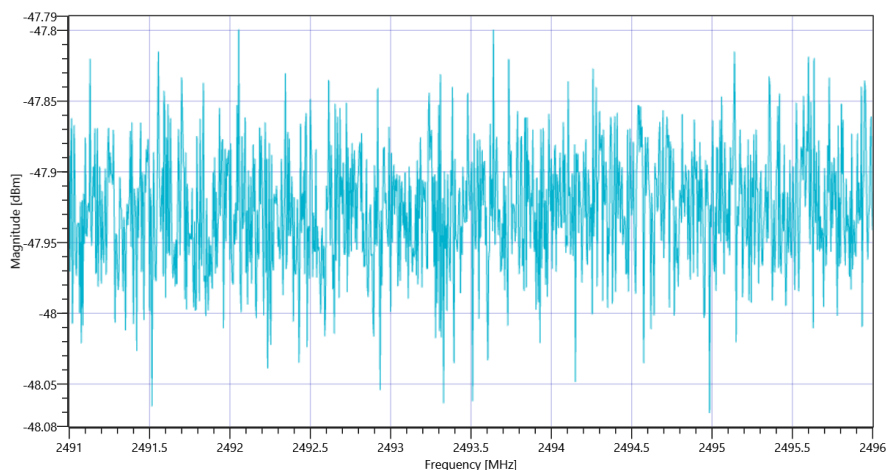
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	15.51	dBm	INFO
Ref. Frequency	---	---	2677.290	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.51 0 40
Start [MHz] Stop [MHz]	2491.000 2496.000
RBW [MHz] VBW [MHz]	0.200000 1.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	30000 1 1001 SWE

RESULT lower band

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2496.5	---	-13	-41.21	dBm	PASS
Frequency [MHz] 2497.5	---	-13	-41.2	dBm	PASS
Frequency [MHz] 2498.5	---	-13	-41.21	dBm	PASS
Frequency [MHz] 2499.5	---	-13	-41.22	dBm	PASS
Frequency [MHz] 2500.5	---	-13	-41.21	dBm	PASS



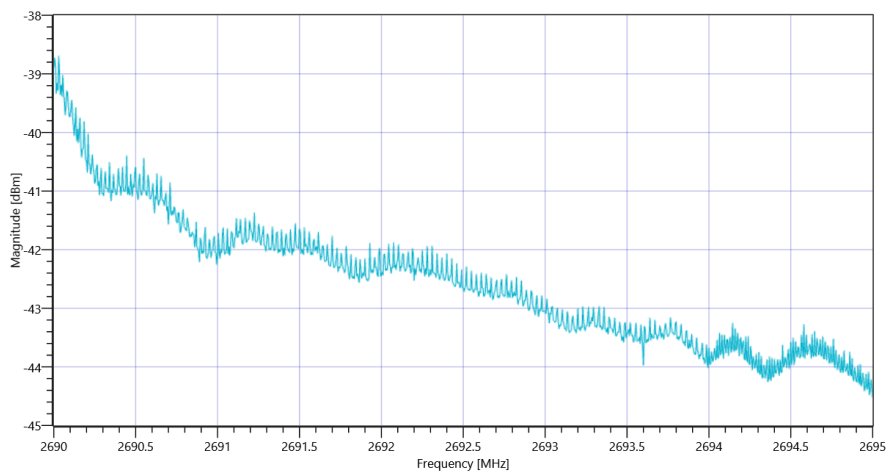
FCC-ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.51 0 40
Start [MHz] Stop [MHz]	2690.000 2695.000
RBW [MHz] VBW [MHz]	0.200000 1.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	30000 1 1001 SWE

RESULT upper band

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2690.5	---	-13	-34.11	dBm	PASS
Frequency [MHz] 2691.5	---	-13	-35.3	dBm	PASS
Frequency [MHz] 2692.5	---	-13	-35.82	dBm	PASS
Frequency [MHz] 2693.5	---	-13	-36.67	dBm	PASS
Frequency [MHz] 2694.5	---	-13	-37.15	dBm	PASS



FCC-ISED Block edge conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT

General verdict

PASS

FCC/ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT

Test References	
TC Start	25.04.2022 18:00:04
Ambit Temp [°C] Humidity [rel%]	28.0 30
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio TX Emissions conducted - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	16QAM
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	False Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2506.02 MHz

RESULT: Reference Power cond.

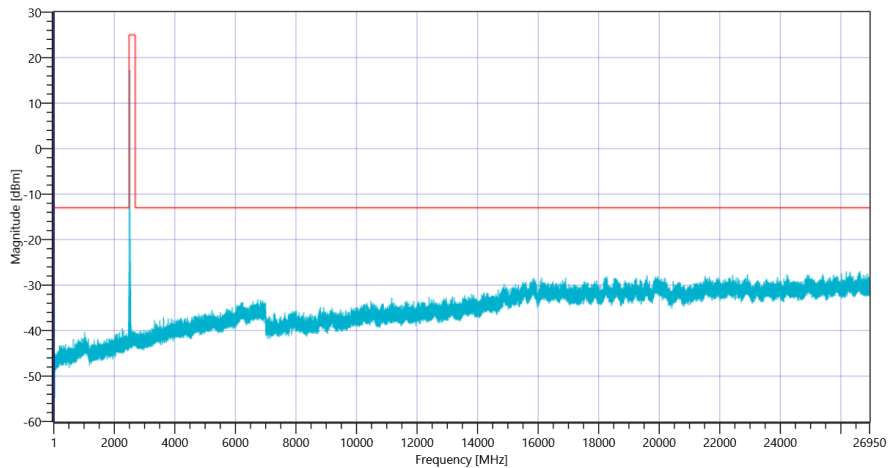
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	14.52	dBm	INFO
Ref. Frequency	---	---	2503.720	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.52 0 30
Start [MHz] Stop [MHz]	1.000 401.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	200 1 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC-ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT 2506.02 MHz

General verdict

PASS

FCC/ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT

Test References	
TC Start	25.04.2022 18:09:09
Ambit Temp [°C] Humidity [rel%]	27.8 29
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio TX Emissions conducted - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	16QAM
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2506.02
Frequency mid to test	True Freq [MHz] 2592.99
Frequency high to test	False Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2592.99 MHz

RESULT: Reference Power cond.

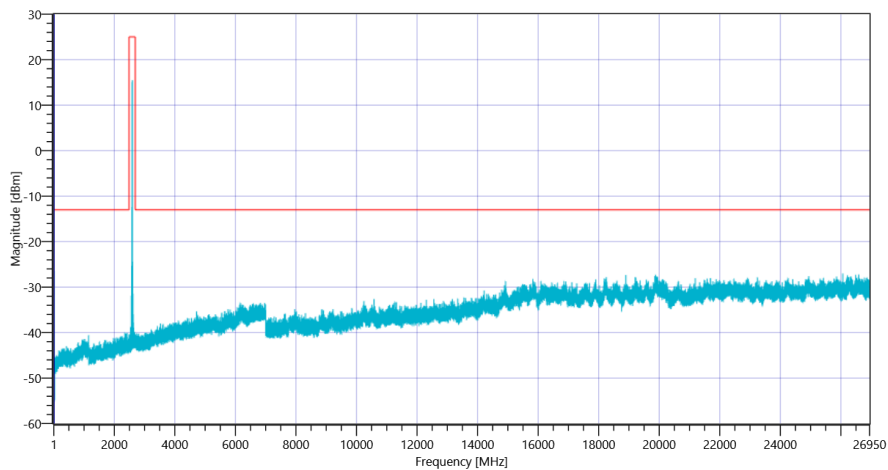
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	15.89	dBm	INFO
Ref. Frequency	---	---	2600.480	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.89 0 30
Start [MHz] Stop [MHz]	1.000 401.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	200 1 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC-ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT 2592.99 MHz

General verdict

PASS

FCC/ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT

Test References	
TC Start	25.04.2022 18:19:33
Ambit Temp [°C] Humidity [rel%]	27.6 29
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio TX Emissions conducted - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	16QAM
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	True Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2679.99 MHz

RESULT: Reference Power cond.

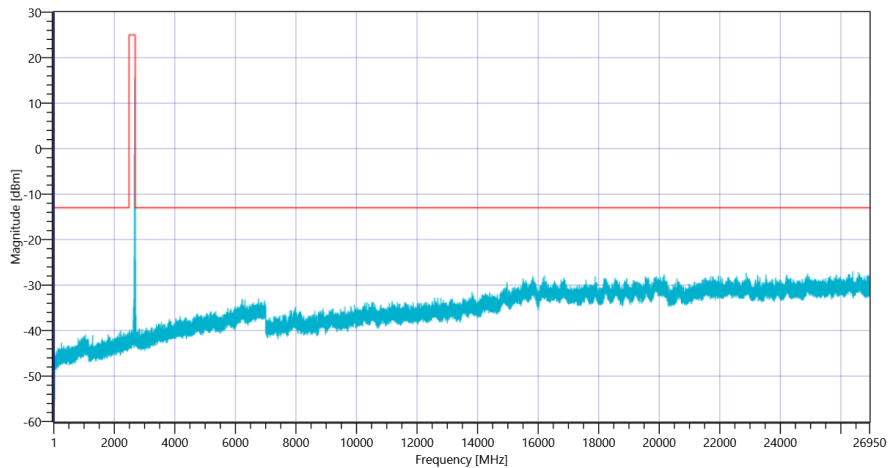
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	14.49	dBm	INFO
Ref. Frequency	---	---	2687.180	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.49 0 30
Start [MHz] Stop [MHz]	1.000 401.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	200 1 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC-ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 16QAM RB_100PCT 2679.99 MHz

General verdict

PASS

FCC/ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT

Test References	
TC Start	25.04.2022 18:03:54
Ambit Temp [°C] Humidity [rel%]	27.9 29
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio TX Emissions conducted - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	64QAM
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	False Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2506.02 MHz

RESULT: Reference Power cond.

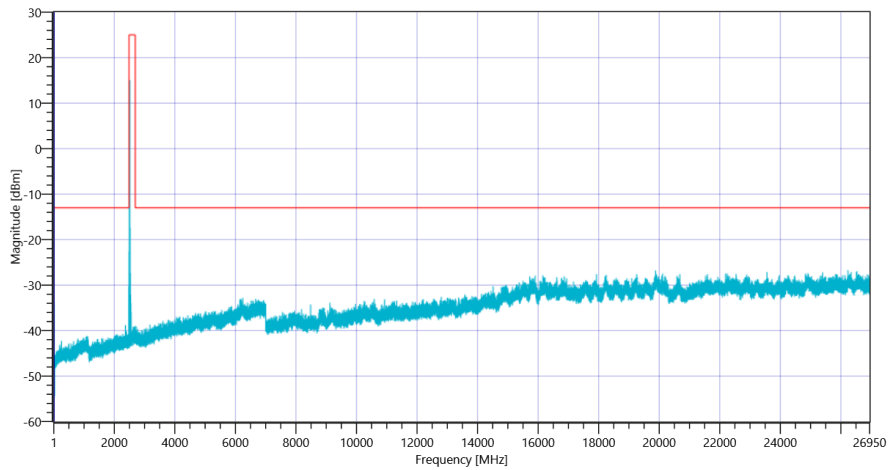
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	14.15	dBm	INFO
Ref. Frequency	---	---	2513.910	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.15 0 30
Start [MHz] Stop [MHz]	1.000 401.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	400 1 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC-ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT 2506.02 MHz

General verdict

PASS

FCC/ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT

Test References	
TC Start	25.04.2022 18:11:10
Ambit Temp [°C] Humidity [rel%]	27.7 29
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio TX Emissions conducted - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	64QAM
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2506.02
Frequency mid to test	True Freq [MHz] 2592.99
Frequency high to test	False Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2592.99 MHz

RESULT: Reference Power cond.

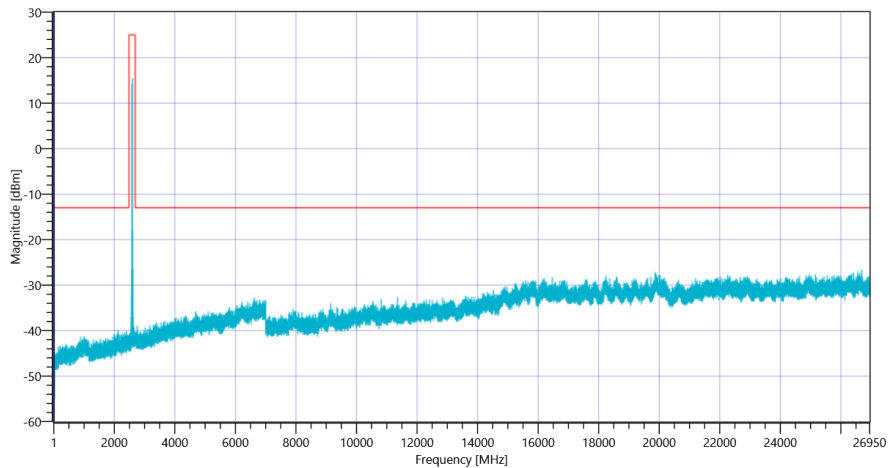
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	14.69	dBm	INFO
Ref. Frequency	---	---	2595.990	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.69 0 30
Start [MHz] Stop [MHz]	1.000 401.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	200 1 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC-ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT 2592.99 MHz

General verdict

PASS

FCC/ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT

Test References	
TC Start	25.04.2022 18:23:22
Ambit Temp [°C] Humidity [rel%]	27.5 29
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio TX Emissions conducted - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	64QAM
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	True Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2679.99 MHz

RESULT: Reference Power cond.

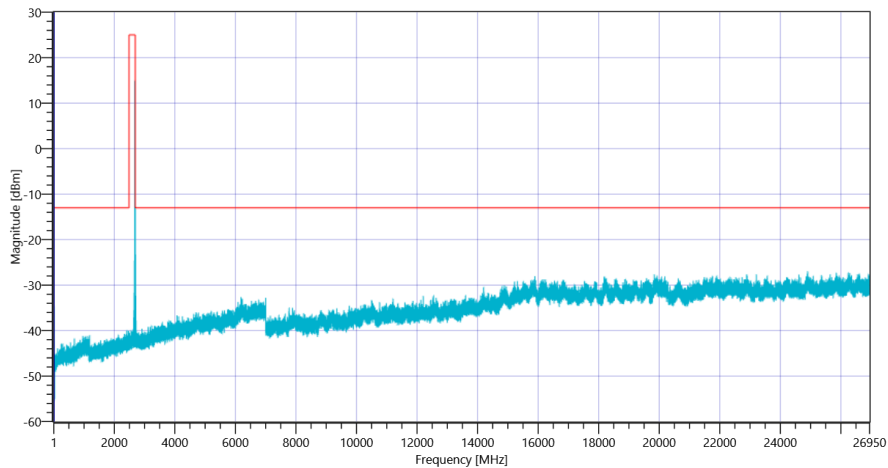
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	15.33	dBm	INFO
Ref. Frequency	---	---	2672.700	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.33 0 30
Start [MHz] Stop [MHz]	1.000 401.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	200 1 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC-ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 64QAM RB_100PCT 2679.99 MHz

General verdict

PASS

FCC/ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT

Test References	
TC Start	25.04.2022 17:51:09
Ambit Temp [°C] Humidity [rel%]	28.0 31
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio TX Emissions conducted - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	QPSK
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	False Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2506.02 MHz

RESULT: Reference Power cond.

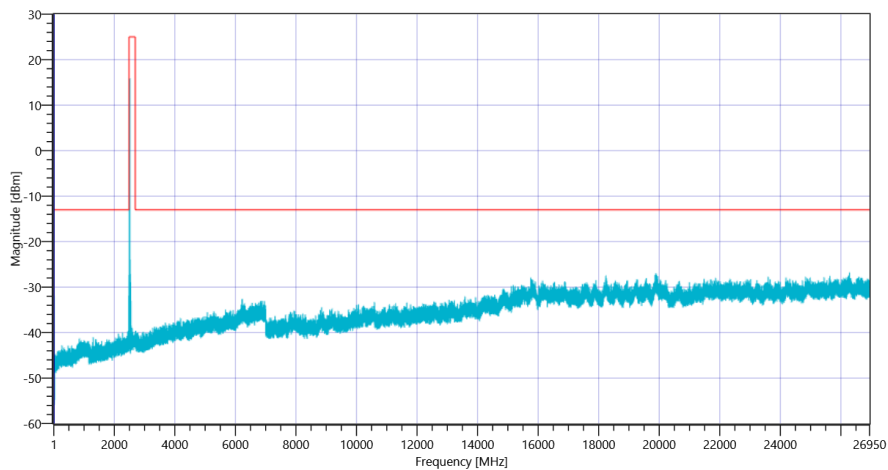
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	15.07	dBm	INFO
Ref. Frequency	---	---	2513.710	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.07 0 30
Start [MHz] Stop [MHz]	1.000 401.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	200 1 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC-ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT 2506.02 MHz

General verdict

PASS

FCC/ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT

Test References	
TC Start	25.04.2022 18:06:09
Ambit Temp [°C] Humidity [rel%]	27.8 29
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio TX Emissions conducted - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	QPSK
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2506.02
Frequency mid to test	True Freq [MHz] 2592.99
Frequency high to test	False Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2592.99 MHz

RESULT: Reference Power cond.

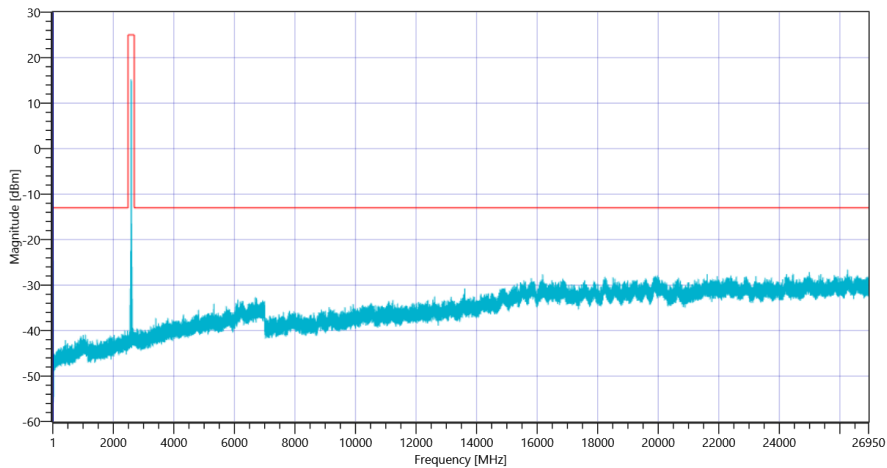
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	14.91	dBm	INFO
Ref. Frequency	---	---	2584.400	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.91 0 30
Start [MHz] Stop [MHz]	1.000 401.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	200 1 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC-ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT 2592.99 MHz

General verdict

PASS

FCC/ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT

Test References	
TC Start	25.04.2022 18:15:47
Ambit Temp [°C] Humidity [rel%]	27.6 29
System Version	3.0.6.3
Test Specification	Mobile Radio 5G
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio TX Emissions conducted - 5G Band_X
Add. Information	

Test Parameter	
Technology to test	Mobile Radio 5G
Band	Band_41
Antenna Port used	1
Max Trans. BW [MHz]	20
Subcarrier spacing [MHz]	15
Modulation	QPSK
Resource block	RB_100PCT
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2506.02
Frequency mid to test	False Freq [MHz] 2592.99
Frequency high to test	True Freq [MHz] 2679.99
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at TX 2679.99 MHz

RESULT: Reference Power cond.

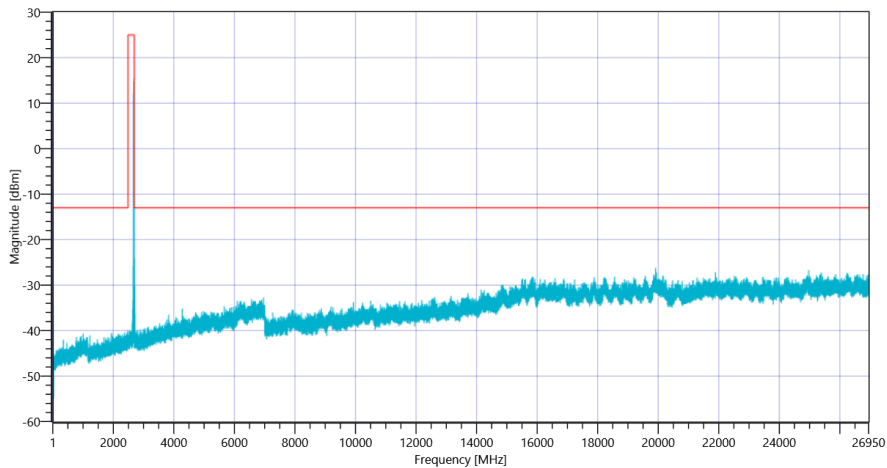
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	15.50	dBm	INFO
Ref. Frequency	---	---	2674.500	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.50 0 30
Start [MHz] Stop [MHz]	1.000 401.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	200 1 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC-ISED TX Emissions conducted ~ Mobile Radio 5G Band_41 Ant-1 BW-20 SCS-15 QPSK RB_100PCT 2679.99 MHz

General verdict

PASS

FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-1 SCS-30

Test References	
TC Start	28.05.2022 12:08:17
Ambit Temp [°C] Humidity [rel%]	24.5 28
System Version	3.0.6.4
Test Specification	FCC, ISED -
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio TX Emissions conducted - NR Band_41
Add. Information	

Test Parameter	
Technology to test	NR
Band	Band_41
SCS [kHz]	30
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False
Frequency mid to test	False
Frequency high to test	True
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	

Test at BW [MHz]: 100

UL[MHz]/CH 2640/0 , CBW [MHz]: 100 , RB_100PCT , Mod: QPSK

RESULT: Reference Power cond.

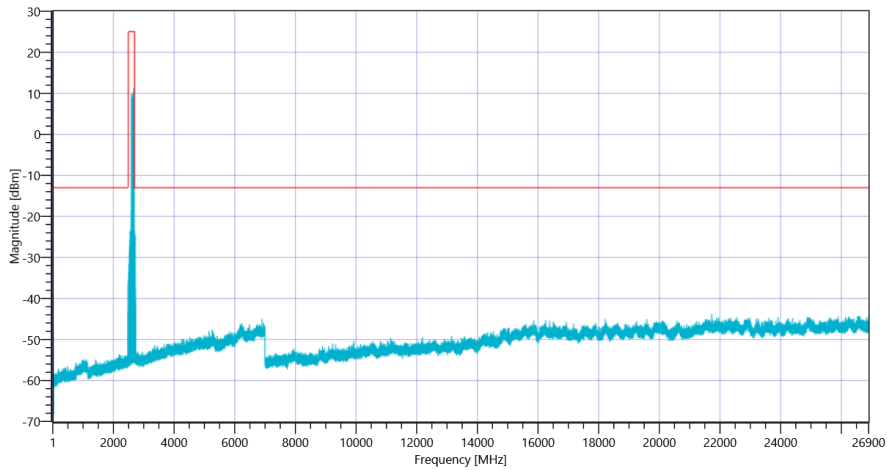
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	10.90	dBm	INFO
Ref. Frequency	---	---	2686.050	MHz	INFO

READ SA SETTINGS:

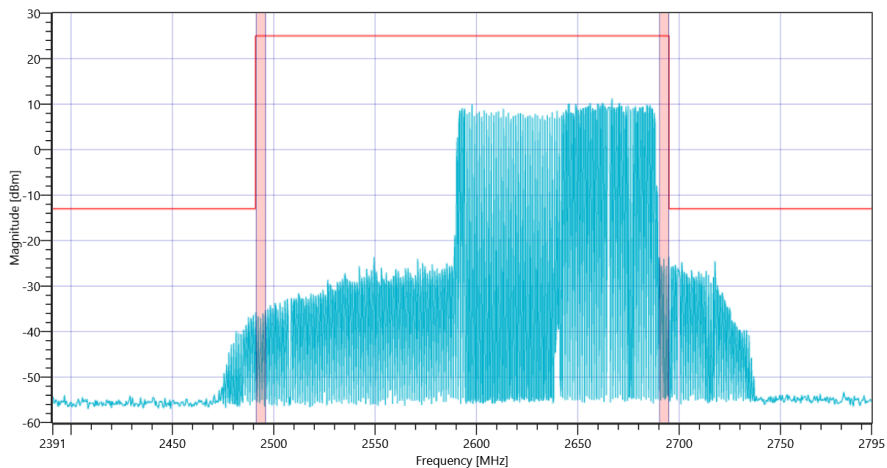
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-0.10 0 15
Start [MHz] Stop [MHz]	1.000 401.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1600 1 1001 SWE

RESULT UL[MHz]/CH 2640/0 , CBW [MHz]: 100 , RB_100PCT , Mod: QPSK

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-1 SCS-30 2640 MHz



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-1 SCS-30 2640

General verdict

PASS

FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-1 SCS-30

Test References	
TC Start	28.05.2022 12:00:48
Ambit Temp [°C] Humidity [rel%]	24.5 28
System Version	3.0.6.4
Test Specification	FCC, ISED -
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio TX Emissions conducted - NR Band_41
Add. Information	

Test Parameter	
Technology to test	NR
Band	Band_41
SCS [kHz]	30
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True
Frequency mid to test	False
Frequency high to test	False
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	None

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70	