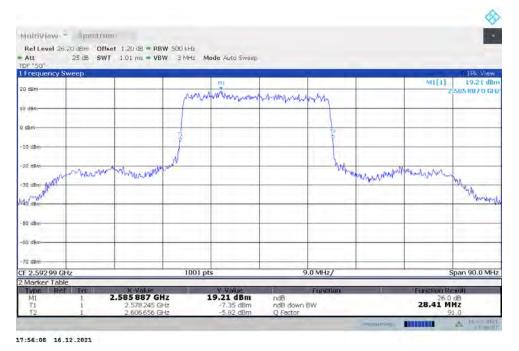




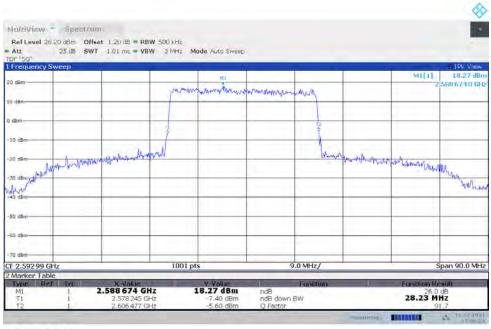
n41,30MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	28.412	28.232

n41,30MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n41,30MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



17:56:25 16.12.2021

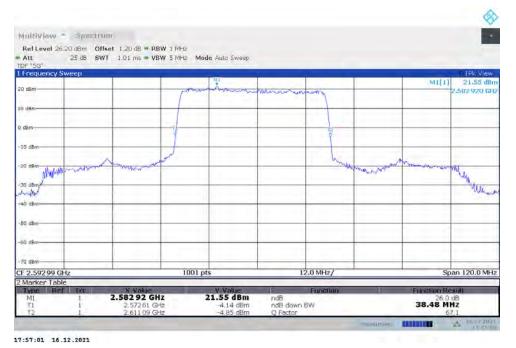




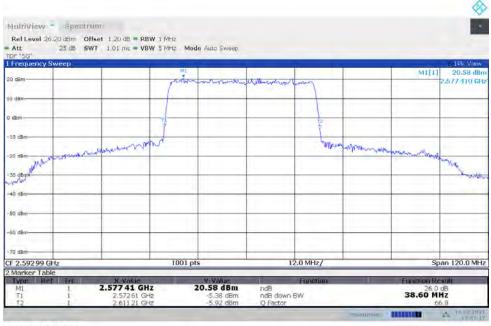
n41,40MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	38.480	38.600

n41,40MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n41,40MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



17:57:18 16.12.2021

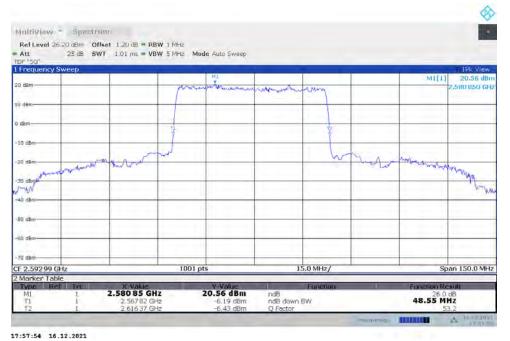




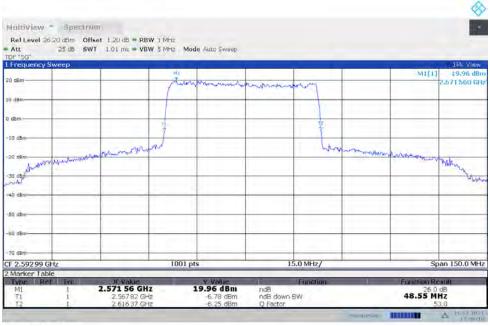
n41,50MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	48.550	48.550

n41,50MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n41,50MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



17:58:11 16.12.2021

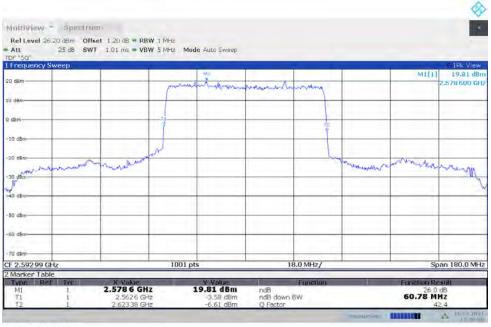




n41,60MHz(-26dBc)

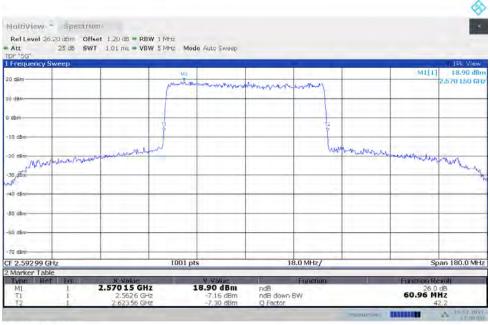
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	60.780	60.960

n41,60MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



17:58:47 16.12.2021

n41,60MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



17:59:04 16.12.2021

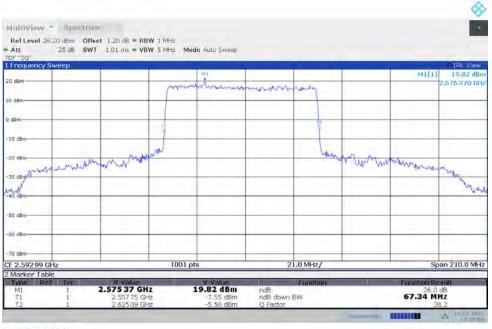




n41,70MHz(-26dBc)

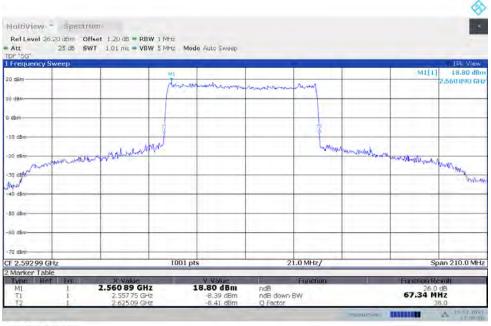
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	67.340	67.340

n41,70MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



17:59:40 16.12.2021

n41,70MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



17:59:57 16.12.2021

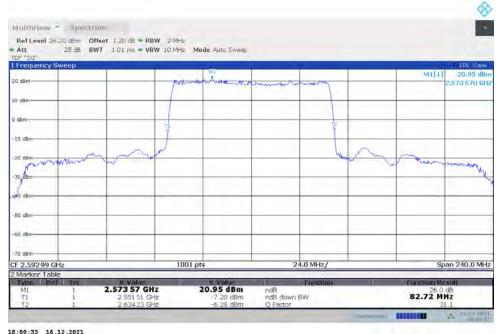




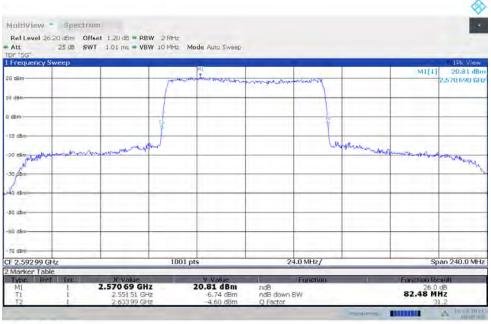
n41,80MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	82.720	82.480

n41,80MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n41,80MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



18:00:50 16.12.2021

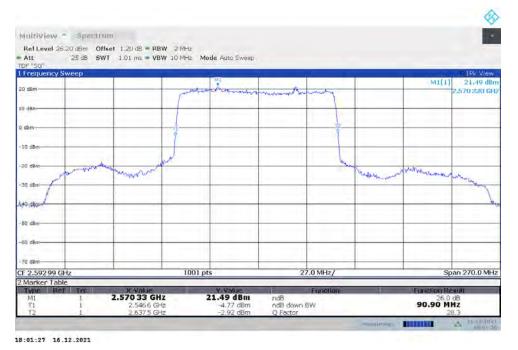




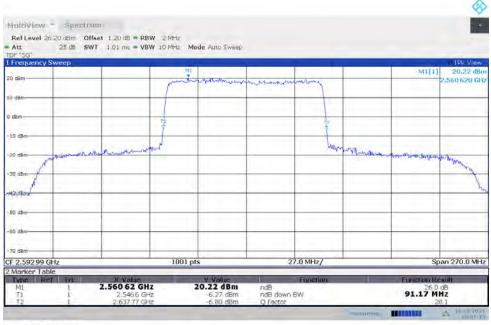
n41,90MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	90.900	91.170

n41,90MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n41,90MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



18:01:44 16.12.2021





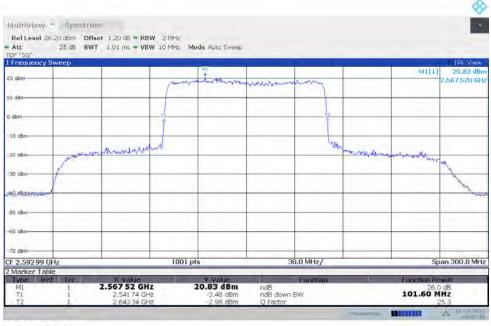
n41,100MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	101.600	101.600

n41,100MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n41,100MHz Bandwidth,DFT-s-QPSK (-26dBc BW)







n66

n66,5MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	5.050	5.020

n66,5MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



09:45:47 17.12.2021

n66,5MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



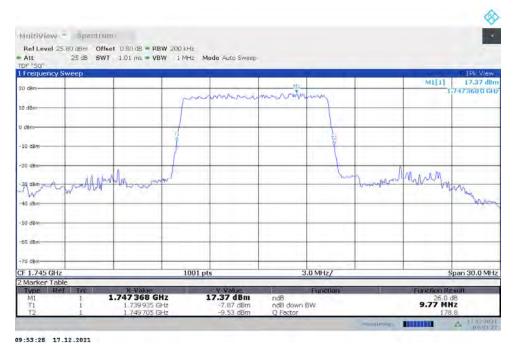




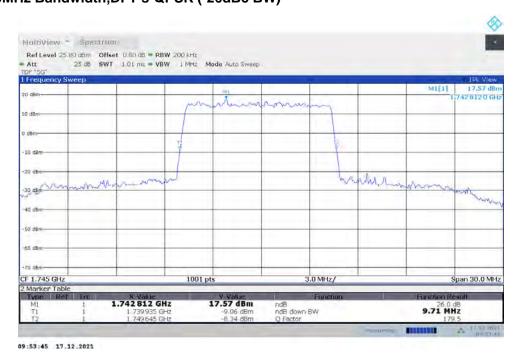
n66,10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	9.770	9.710

n66,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n66,10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



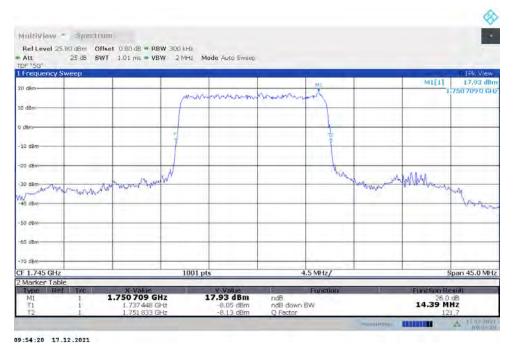




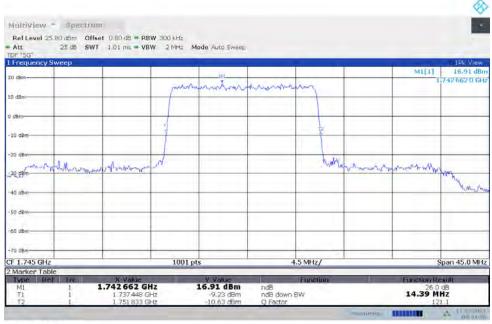
n66,15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	14.386	14.386

n66,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n66,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



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n66,20MHz(-26dBc)

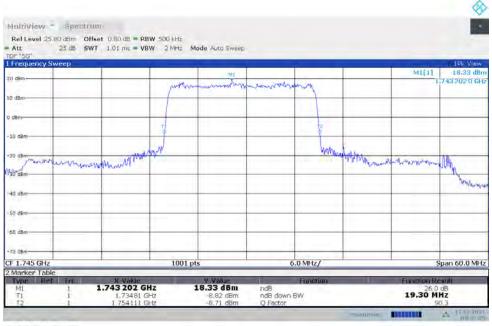
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	19.181	19.301

n66,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



09:55:13 17.12.2021

n66,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



09:55:30 17.12.2021

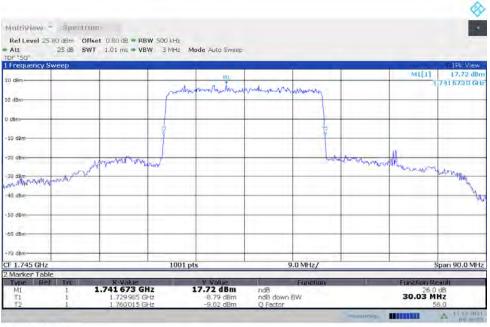




n66,30MHz(-26dBc)

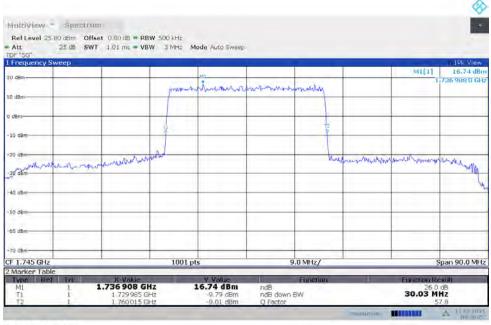
	Emission Bandwid	th (-26dBc) (MHz)
Frequency (MHz)	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	30.030	30.030

n66,30MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



09:56:05 17.12.2021

n66,30MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



09:56:22 17.12.2021

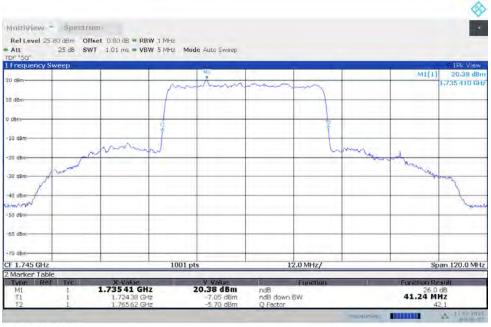




n66,40MHz(-26dBc)

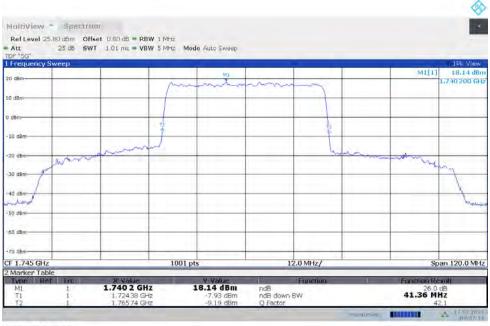
	Emission Bandwid	th (-26dBc) (MHz)
Frequency (MHz)	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	41.240	41.360

n66,40MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



09:56:58 17.12.2021

n66,40MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



09:57:15 17.12.2021

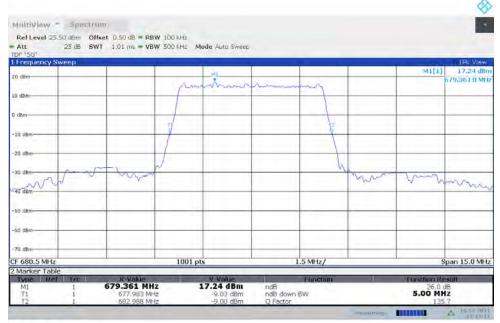




n71 n71,5MHz(-26dBc)

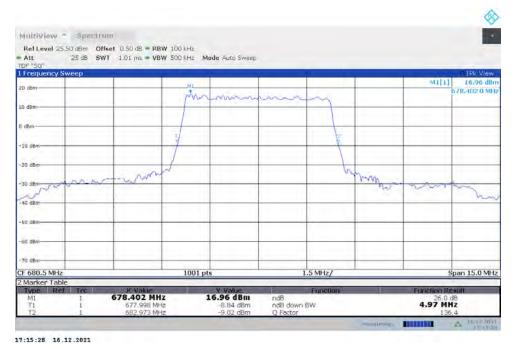
	Emission Bandwid	th (-26dBc) (MHz)
Frequency (MHz)	DFT-s-pi/2 BPSK	DFT-s-QPSK
680.5	5.005	4.975

n71,5MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



17:15:11 16.12.2021

n71,5MHz Bandwidth,DFT-s-QPSK (-26dBc BW)







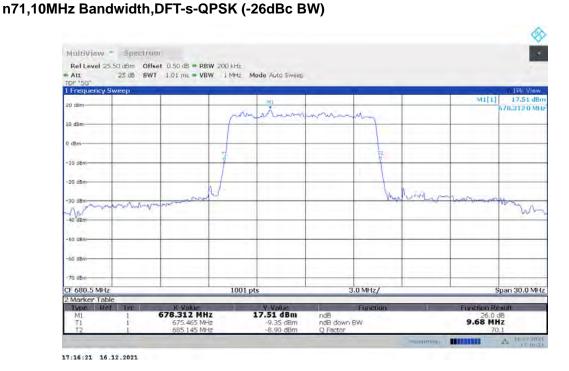
n71,10MHz(-26dBc)

	Emission Bandwid	th (-26dBc) (MHz)
Frequency (MHz)	DFT-s-pi/2 BPSK	DFT-s-QPSK
680.5	9.650	9.680

n71,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



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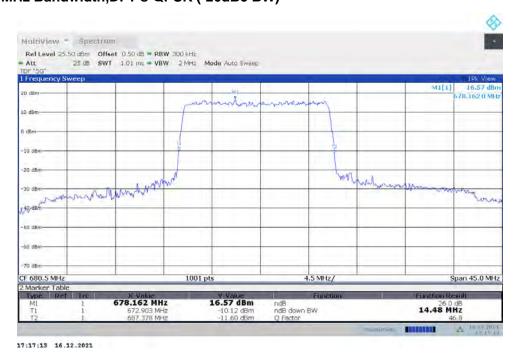
n71,15MHz(-26dBc)

	Emission Bandwid	th (-26dBc) (MHz)
Frequency (MHz)	DFT-s-pi/2 BPSK	DFT-s-QPSK
680.5	14.341	14.476

n71,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n71,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



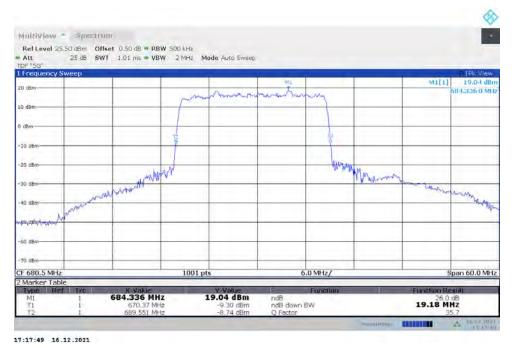




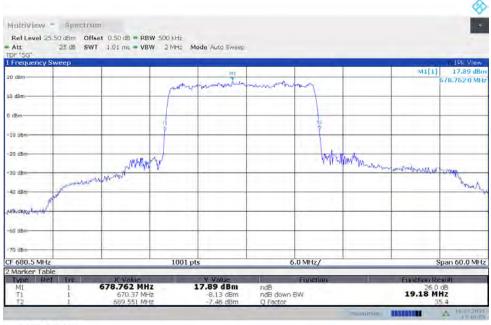
n71,20MHz(-26dBc)

	Emission Bandwid	th (-26dBc) (MHz)
Frequency (MHz)	DFT-s-pi/2 BPSK	DFT-s-QPSK
680.5	19.181	19.181

n71,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n71,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



17:18:06 16.12.2021





A.6 Band Edge Compliance

A.6.1 Measurement limit

Part 24.238 and Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

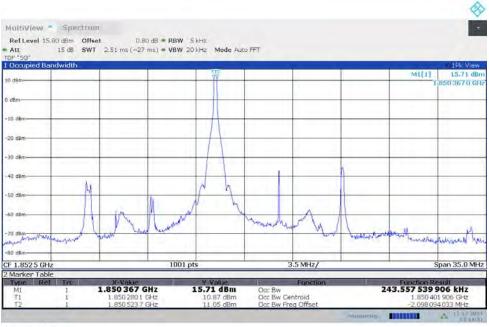
Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.





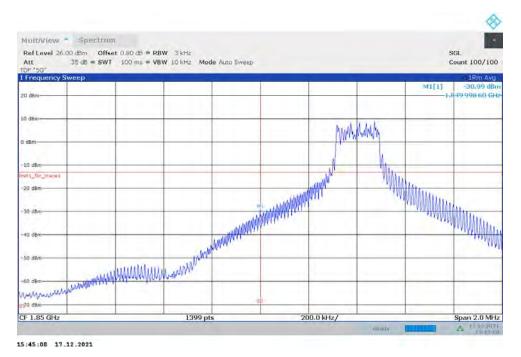
A.6.2 Measurement result NR n2

OBW: 1RB-LOW_offset



15:44:31 17.12.2021

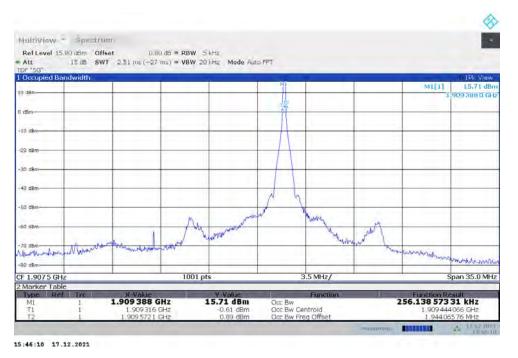
LOW BAND EDGE BLOCK-1RB-LOW_offset



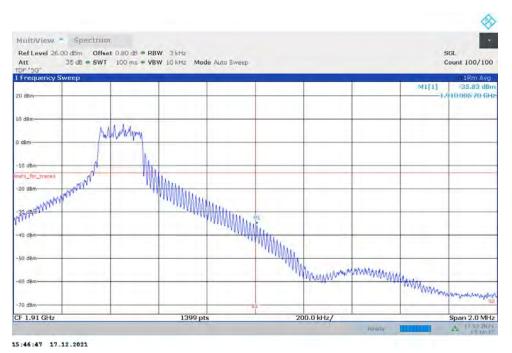




OBW: 1RB-HIGH_offset



HIGH BAND EDGE BLOCK-1RB-HIGH_offset







LOW BAND EDGE BLOCK-20M-100%RB



HIGH BAND EDGE BLOCK-20M-100%RB

Ref Level 26.00 dBm Offset 0.80 dB .	BBW 200 kHz						SGL
Att 35 dB = SWT 50 ms =		de Auto Sweep					Count 100/100
Frequency Sweep							01Rm Avg
0 dBm-						M1[1]	-28.05 dBn 1.910 160 0 GH
0 dBm	-	_				_	
) dBm		7					
10 dBm							
miti_for_trace1							
-20 dBm			M1				
30 dBm-		Xin	-	munition	mumm	moning	
-40 dijen				-	-	(
50 dBm				-			
60 dem			_	-			
70 dBm							- 52

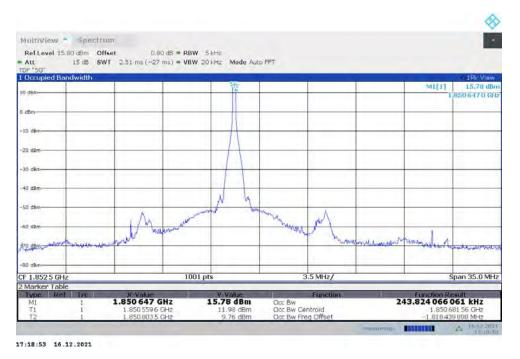
15:48:56 17.12.2021



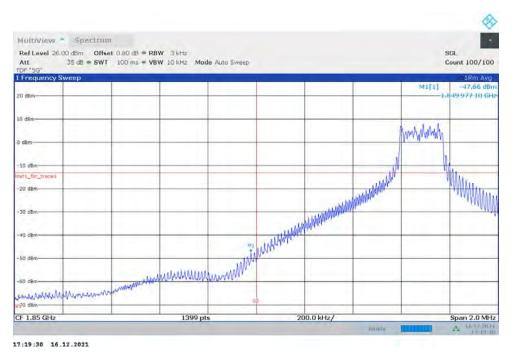


NR n25

OBW: 1RB-LOW_offset



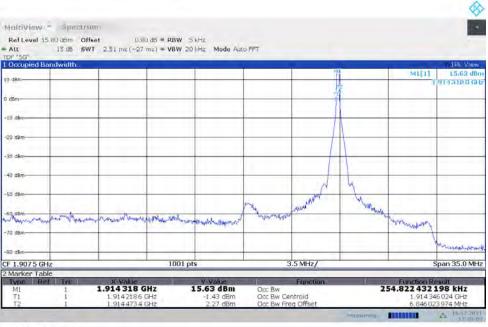
LOW BAND EDGE BLOCK-1RB-LOW_offset





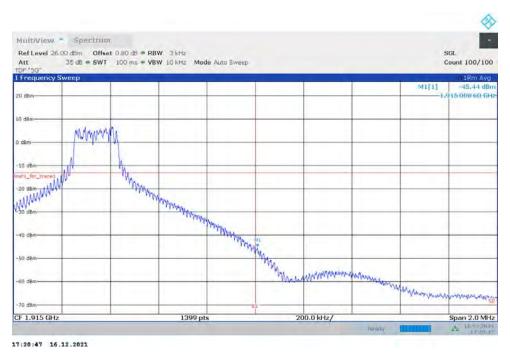


OBW: 1RB-HIGH_offset



17:20:10 16.12.2021

HIGH BAND EDGE BLOCK-1RB-HIGH_offset



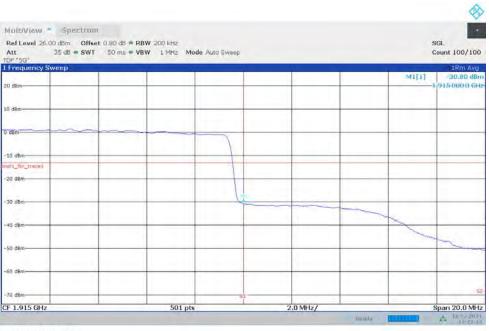




LOW BAND EDGE BLOCK-40M-100%RB

Ref Level 26.00 dBm Offset 0.80 Att 35 dB = SWT 50	dB = RBW 200 kHz ms = VBW 1 MHz Mode Aut	a Sweep			SGL Count 100/100
DF "5G"	INS - YOW I FILE MODE AND	o oweep			
Frequency Sweep					01Rm Avg 1 -36.75 dB
20 dBm-				M1[1	-1,850 000 0 Gi
0 dBm					
dBm					
10 dBm					
niti_for_trace&					
20 dBm					
-10 dBm-		2021			
40. dbmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm		*			
50 dBm					
60 d8m					
20 dBm		52			_
F 1.85 GHz	501 pts		2.0 MHz/		Span 20.0 MH

HIGH BAND EDGE BLOCK-40M-100%RB



17:22:46 16.12.2021





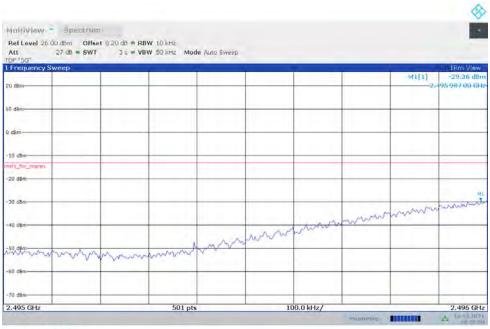
NR n41

OBW: 1RB-LOW_offset

dBm	INV	NANIA.						M1[1]	12.34 dBn 197 101 40 GH
	1	Train 1						6. ·	57 TUT 10 Cm
d&m	TAN	4							
0 dBm	No.	Alter.							
0 dBm	edu.	. Mandall	AMANANA MANA						
0 dBm Wellingerson and and and and and and and and and an			- MANAMANA						
u dem			- AND	AMAL MARY					
0 dBm				A DA					
0 dêm-		-			Maria				
		_				Wan polatellar	Mark .		100 200
0 dBm							"PUCK-Kanthald	Chinaman ana sha	pappagase
0 dêm					WHAM TO WORK TO WORK MAN				
0 dBm									

18:19:20 16.12.2021

LOW BAND EDGE BLOCK-1RB-LOW_offset



18:20:00 16.12.2021





LOW BAND EDGE BLOCK-1RB-LOW_offset

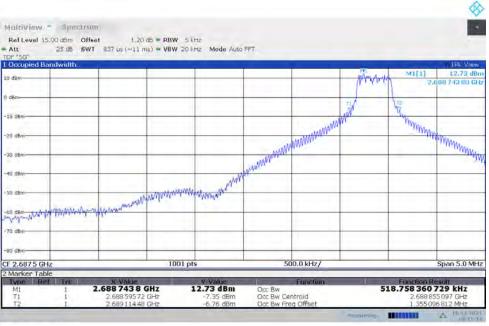
d8m- d8m			
dbm-			
dbm-	manta		
	manufit	-	
dBm	many		
dBm			
		monter	NY .
dBm-		<u> </u>	wert
_0.0 mail			1
dBm			
dBarr			
im			12 2 1
Ikni-			
8//		M1[1]	-19.26 dBm
"56" requency Sweep		-	# 1Rm View

18:20:40 16.12.2021



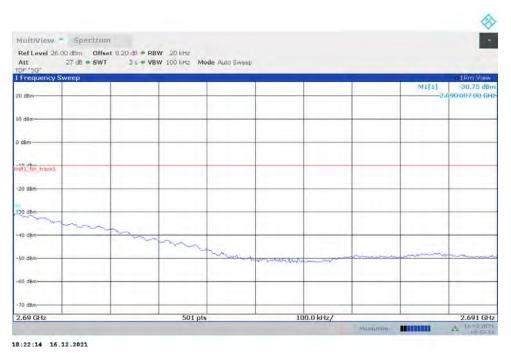


OBW: 1RB-HIGH_offset



18:21:34 16.12.2021

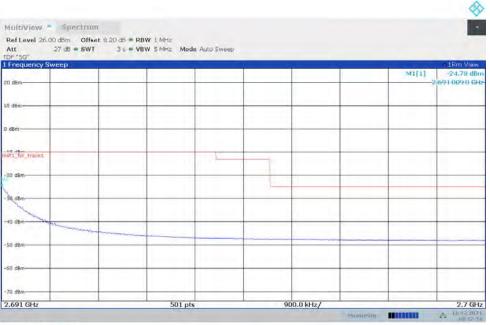
HIGH BAND EDGE BLOCK-1RB-HIGH_offset







HIGH BAND EDGE BLOCK-1RB-HIGH_offset



18:22:54 16.12.2021

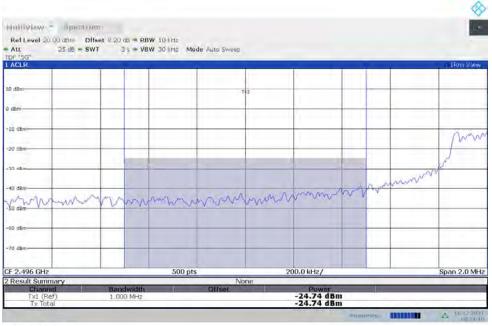




LOW BAND EDGE BLOCK-100M-100%RB



Channal Power



18:24:40 16.12.2021





LOW BAND EDGE BLOCK-100M-100%RB

follow - pettrum						
Ref Level 26.00 dBm Offset 8.20 dB Att 27 dB = SWT 3 s	RBW 1 MHz VBW 5 MHz Mode Aut	to Sweep				
#"5G" Frequency Sweep		a storage	_			: IRm View
					M1[1]	-25.61 dBm
18/0-						2,491,995,0,618
dam						
MENT						
dBm						
1 dBm	_				_	1
0 d8m-						
ti_for_traces						44
0 dBm						
0 dBm	_	-				-
0 dBm					_	
0 dbm						
a dam						
489 5 GHz	501 pts		550.0 kHz/	,	-	2.495 GHz

18:25:20 16.12.2021





HIGH BAND EDGE BLOCK-100M-100%RB

CALCULAR CONTRACTOR				mananni		A 16 12 2021
2.69 GHz	1 1	501 pts	100.0 kHz/	1		2.691 GH
70 dBm				-		
60 d8m-						
SU MBRI						
50 dBm-						
40 dBm						
30 dBm				-		
			man and and and		inner	
20 dBm						
10 dBm track1						
theme is a second se						
dBm						
0 dBm				_		_
r0 dBm-					-2	.090 136 70 GH
Trequency sweep				Í	M1[1]	-25.28 dBn
Att 27 dB = SM DF "5G" Frequency Sweep	VT 3s = VBW 5 MH	Mode Auto Sweep		_		01Rm View
Ref Level 26.00 dBm Of						
MultiView 🔭 Spectru	1111					

HIGH BAND EDGE BLOCK-100M-100%RB

MultiView Spectrum RefLevel 26.00 dBm Offset 8.2	IN IS IN DOW I MAL					
Att 27 dB = SWT	3 s = VBW 5 MHz Mo	de Auto Sweep				
Frequency Sweep		24				01Rm View
0 d8m-					M1[1]	-26.31 dBi 2.691 120 GH
u dam-						C0041-150-00
) dBm				_		
dBm					_	
P dim F1 for Track)		-		_		_
a de desta				-		
20 dBm						
m.					_	
10 dBm					-	-
m l		1		-		
40 dBm-						
	-			-	1000	
50 dBm-						
60 d8m-						
AL MART						
70 dBm						
.691 GHz	501 p		11.9 MHz/		-	2.81 GH

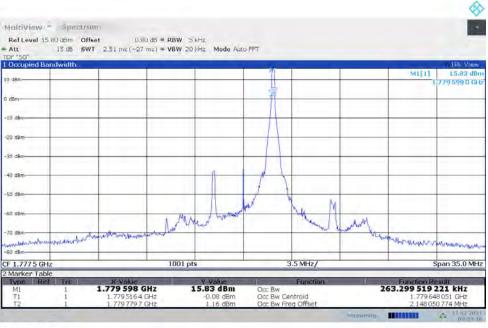
18:27:05 16.12.2021





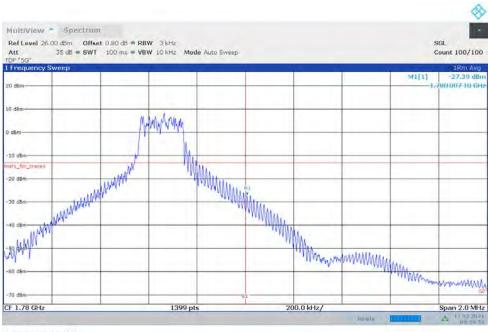
NR n66

OBW: 1RB-HIGH_offset



09:59:17 17.12.2021

HIGH BAND EDGE BLOCK-1RB-HIGH_offset

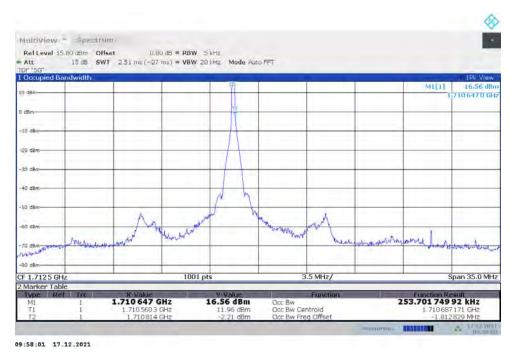


09:59:54 17.12.2021

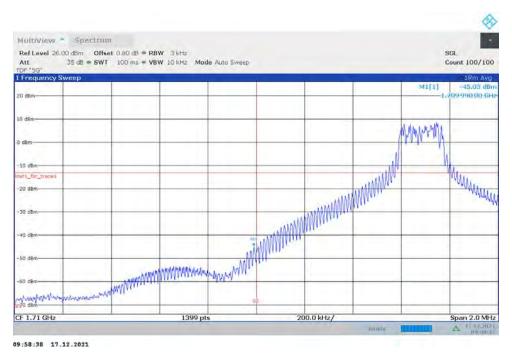




OBW: 1RB-LOW_offset



LOW BAND EDGE BLOCK-1RB-LOW_offset







LOW BAND EDGE BLOCK-40M-100%RB

MultiView Spectrum RefLevel 26.00 dBm Offset 0.80	dB DRW 500 kHz		SGL
	ms = VBW 2 MHz Mode Auto Swee	p	Count 100/10
Frequency Sweep	1		O1Rm Avg
20 dBm-			M1[1] -17.37 dB 1710 000 0 G
.0 d8m			
dBm			
10 dBm			
niti_for_trace:		*	
20 dBm		1	
30 d8m			
40 d8m			
50 dBm-			
60 dem-			
₫0 dBm		52	
F 1.71 GHz	501 pts	2.0 MHz/	Span 20.0 MH

HIGH BAND EDGE BLOCK-40M-100%RB

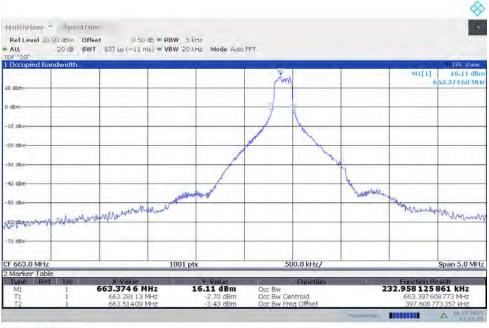
MultiView Spectrum RefLevel 26.00 dBm Offset 0.1						SGL
IDF "5G"	i0 ms = VBW 2 MHz Mode Auto	Sweep				Count 100/100
Frequency Sweep		1	1	1	M1[1]	0 1Rm Avg -19,48 dBn
10 dBm-					(intri)	1,780 000 0 GH
0 dBm		_	_			-
) dBm						
1000						
10 dBm		1			-	-
mit1_for_trace1		des.				
20 dBm		1				
30 dBm				-		
30.000			- mar			advance
40 dem-						
50 dBm		-				
-60 d8m		_				-
70 dBm-		51				5
F 1.78 GHz	501 pts		2.0 MHz/		_	Span 20.0 MHz

10:02:07 17.12.2021



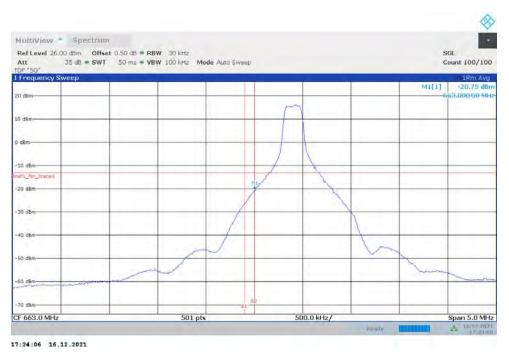


NR n71 OBW: 1RB-LOW_offset



17:23:29 16.12.2021

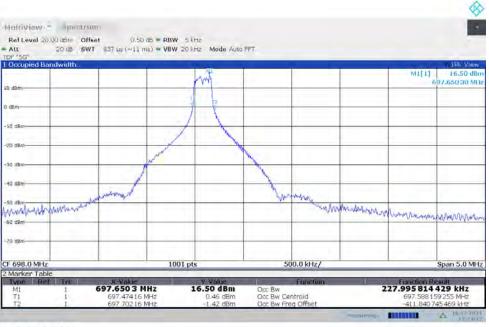
LOW BAND EDGE BLOCK-1RB-LOW_offset





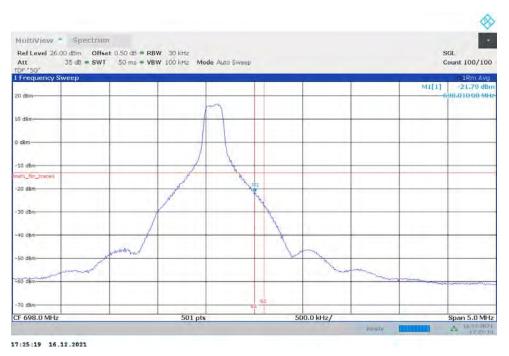


OBW: 1RB-HIGH_offset



17:24:42 16.12.2021

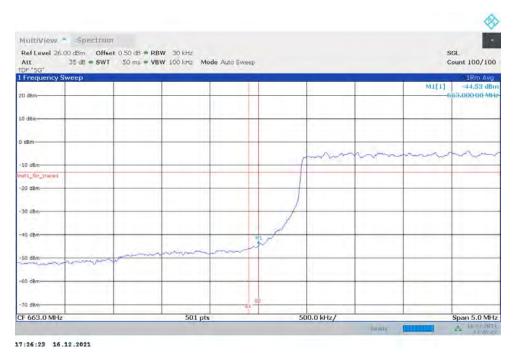
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



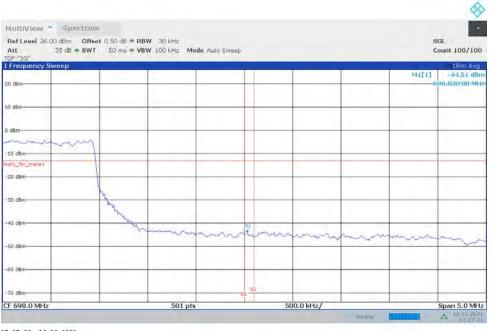




LOW BAND EDGE BLOCK-20M-100%RB



HIGH BAND EDGE BLOCK-20M-100%RB



17:27:22 16.12.2021





A.7 Conducted Spurious Emission

A.7.1 Measurement Method

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. In measuring unwanted emissions, the spectrum shall be investigated from 30 MHz or the lowest radio frequency signal generated in the equipment, whichever is lower, without going below 9 kHz, up to at least the frequency given below:

(a) If the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(b) If the equipment operates at or above 10 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

- 2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
- 3. The number of sweep points of spectrum analyzer is set to 30001 which is greater than span/RBW.

A. 7.2 Measurement Limit

Part 24.238 and Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

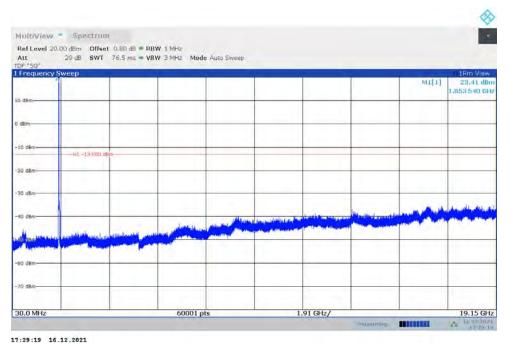




A. 7.3 Measurement result

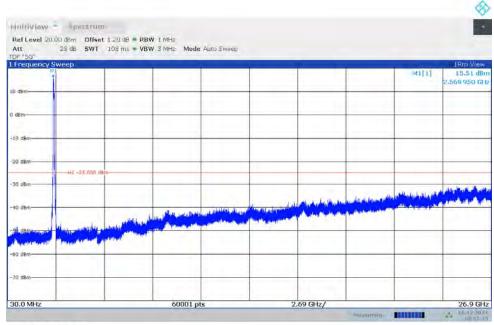
n25

NOTE: peak above the limit line is the carrier frequency.



n41

NOTE: peak above the limit line is the carrier frequency.

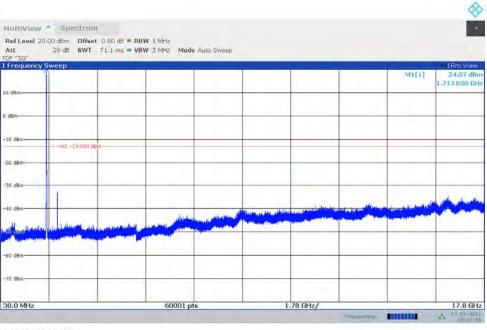


18:31:46 16.12.2021



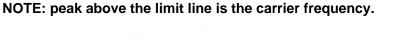


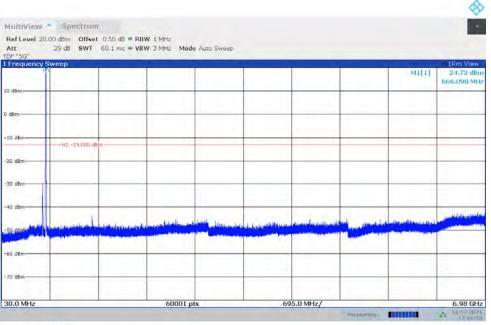
n66 NOTE: peak above the limit line is the carrier frequency.



10:03:57 17.12.2021

n71 NOTE: peak above the limit line is th





17:31:09 16.12.2021





A.8 Peak-to-Average Power Ratio

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;

b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;

- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Record the maximum PAPR level associated with a probability of 0.1%.

Measurement results

n25,40MHz

		PAPR (dB)								
Frequency (MHz)	DFT-s-pi/2 BPSK	DFT-s-QPSK	DFT-s-16QAM	DFT-s-64QAM	DFT-s-256QAM	CP-QPSK	CP-16QAM	CP-64QAM	CP-256QAM	
1882.5	5.04	4.94	6.02	6.36	6.50	7.60	7.68	7.72	8.36	

n41,100MHz

Frequency (MHz)	PAPR (dB)								
	DFT-s-pi/2 BPSK	DFT-s-QPSK	DFT-s-16QAM	DFT-s-64QAM	DFT-s-256QAM	CP-QPSK	CP-16QAM	CP-64QAM	CP-256QAM
2592.99	3.93	5.25	6.16	6.41	6.54	7.27	7.24	7.67	8.25

n66,40MHz

	PAPR (dB)								
Frequency (MHz)	DFT-s-pi/2 BPSK	DFT-s-QPSK	DFT-s-16QAM	DFT-s-64QAM	DFT-s-256QAM	CP-QPSK	CP-16QAM	CP-64QAM	CP-256QAM
1745	4.68	4.94	6.02	6.40	6.38	7.52	7.54	7.66	8.46

n71,20MHz

		PAPR (dB)							
Frequency (MHz)	DFT-s-pi/2 BPSK	DFT-s-QPSK	DFT-s-16QAM	DFT-s-64QAM	DFT-s-256QAM	CP-QPSK	CP-16QAM	CP-64QAM	CP-256QAM
680.5	4.16	5.60	6.60	6.48	6.54	7.24	7.22	7.78	8.36





Annex B: Accreditation Certificate



END OF REPORT