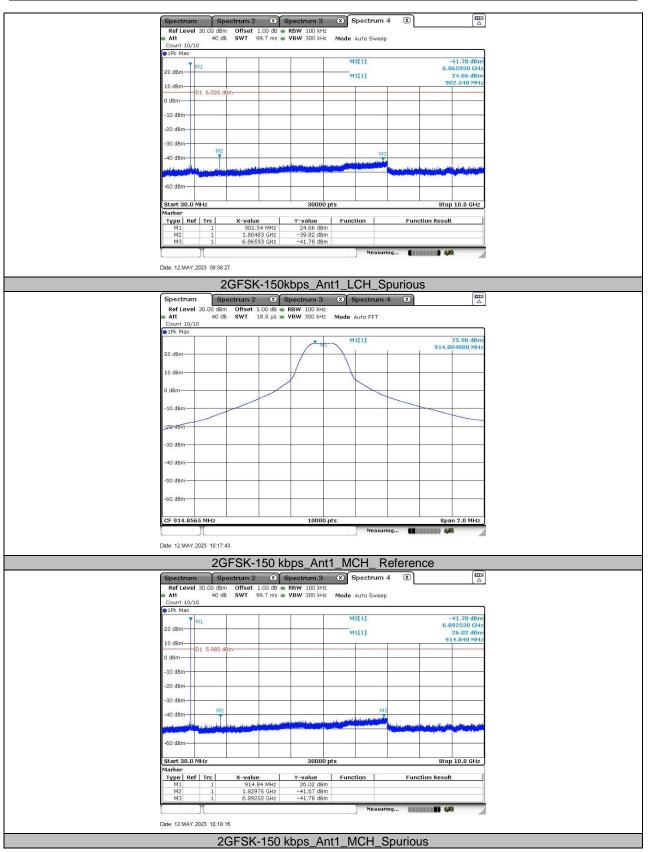


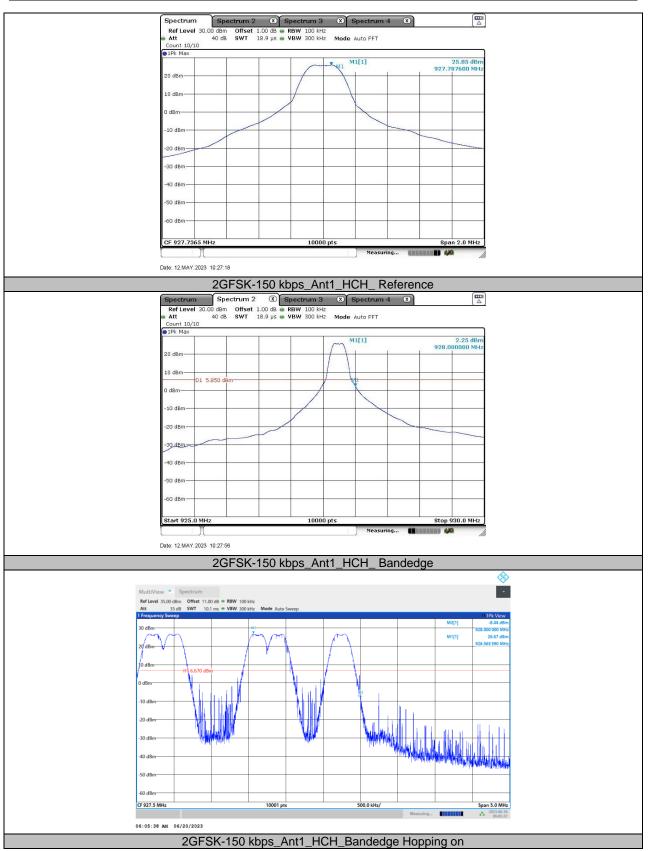
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Spectr	um Sp	ectrum 2 🛞	Spectrum 3	(X) Spect	um 4 🛞		
Ref Le Att Count :	evel 30.00 dBm 40 dE 10/10		RBW 100 kHz	Mode Auto S	weep		
• 1Pk Ma 20 dBm-	MI			M3[1]		6.94	1.55 dBm 8680 GHz 5.95 dBm .800 MHz
10 dBm-	D1 5.850 d	Bm					
-10 dBm		ð					
-20 dBm -30 dBm					8		
-40 dBm	M2		and the state of the	and the second second	M3	and had not all a	ومعروبه والمعروب والمتع
-60 dBm							
Start 3	D.O MHz		30000 (	pts		Stop 1	0.0 GHz
Marker							
 M1  M2 	Ref         Trc           1         1           1         1	X-value 927.8 MHz 1.85567 GHz 6.94868 GHz	Y-value 25.95 dBm -43.74 dBm -41.55 dBm	Function	Fu	nction Result	
	)[			) M	asuring 🚺	4/0	lin
Date: 12.M	AY.2023 10:28:4	" GFSK-150	khne Ar		Spurio		
	2	GF3K-150	KUPS_AI		_opuno	Jus	



# 16. FCC.SubG.2GFSK.250kbps

# 16.1. Appendix A6: DUTY CYCLE

# 16.1.1. Test Result

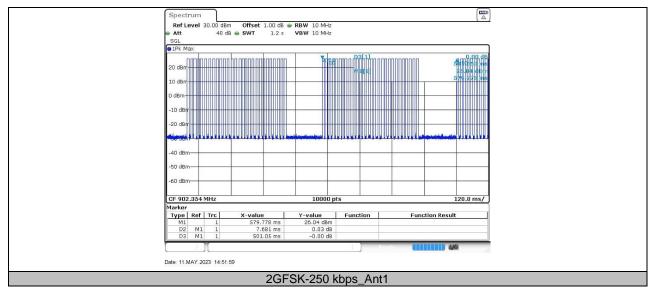
Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
2GFSK-250 kbps	215.068	501.05	0.4292	42.92%	3.67	0.0046	1

Note:

Duty Cycle Correction Factor=10log (1/x). Where: x is Duty Cycle (Linear) Where: T is On Time If that calculated VBW is not available on the analyzer then the next higher value should be used.



#### **Test Graphs**





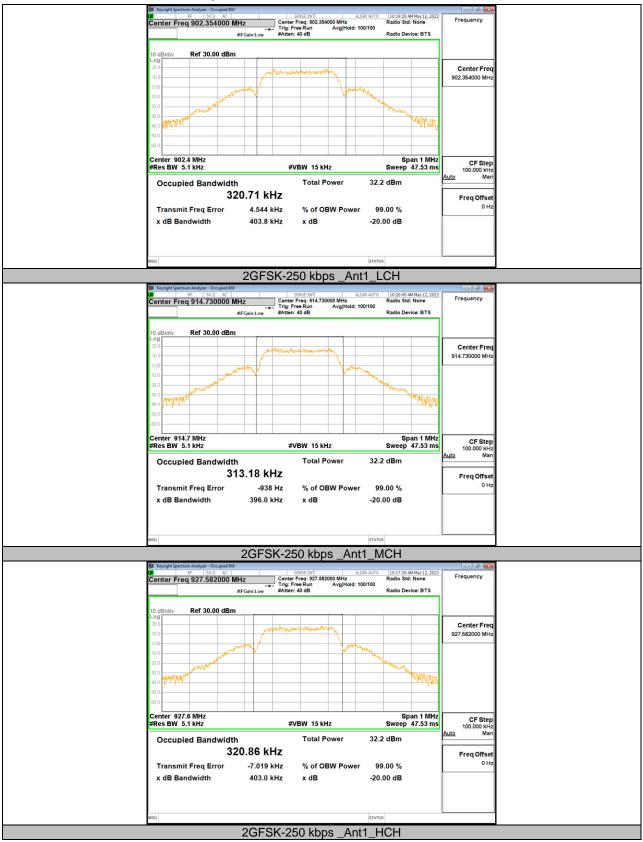
## 16.2. Appendix B6: 20DB BANDWIDTH & OCCUPIED CHANNEL BANDWIDTH

Test Mode	Antenna	Channel	20db EBW[MHz]	OCB [MHz]	Verdict
		LCH	0.4038	0.32071	PASS
2GFSK-250 kbps	Ant1	MCH	0.3960	0.31318	PASS
		HCH	0.4030	0.32086	PASS

#### 16.2.1. Test Result



#### 16.2.2. Test Graphs



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# 16.3. Appendix C6: CONDUCTED OUTPUT POWER

#### 16.3.1. Test Result

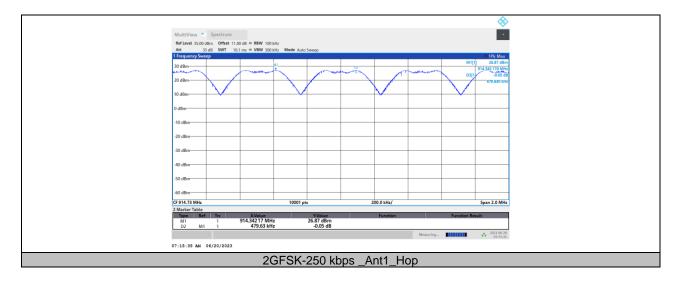
Test Mode	Antenna	Channel	PEAK Result[dBm]	AVG Result[dBm]	Limit[dBm]	Verdict
		Low	26.63	26.51	≤30	PASS
2GFSK-250 kbps	Ant1	Mid	26.60	26.48	≤30	PASS
		High	26.34	26.22	≤30	PASS

# 16.4. Appendix D6: CARRIER FREQUENCY SEPARATION

16.4.1.	Test Result

Test Mode	Antenna	Channel	Result [MHz]	Limit[MHz]	Verdict
2GFSK-250 kbps	Ant1	Нор	0.480	0.4038	PASS

## 16.4.2. Test Graphs

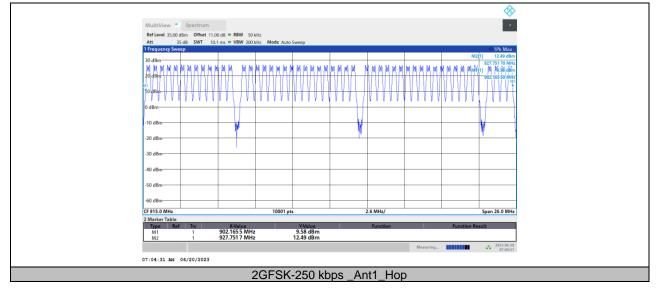




## 16.5. Appendix E6: NUMBER OF HOPPING FREQUENCIES

Test Mode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
2GFSK-250 kbps	Ant1	Нор	51	≥25	PASS







# 16.6. Appendix F6: TIME OF OCCUPANCY (DWELL TIME)

#### 16.6.1. Test Result

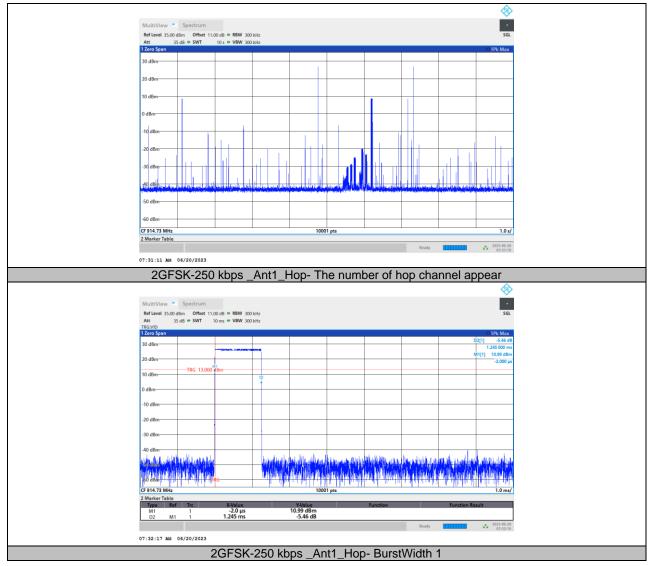
Test Mode	Antenna	Channel	Time of single slot [ms]	number of single slot	Burst Width [ms/hop/ch]	The number of hop channel appear	Dwell Time [ms]	Limit [ms]	Results
2GFSK- 250 kbps	Ant1	Нор	1.245	1	1.245	3	3.735	400	PASS

Note:

2GFSK-250 kbps: The dwell time = Time of single slot \* The number of hop channel appear within 10s BurstWidth =Time of single slot\*number of single slot



#### 16.6.2. Test Graphs



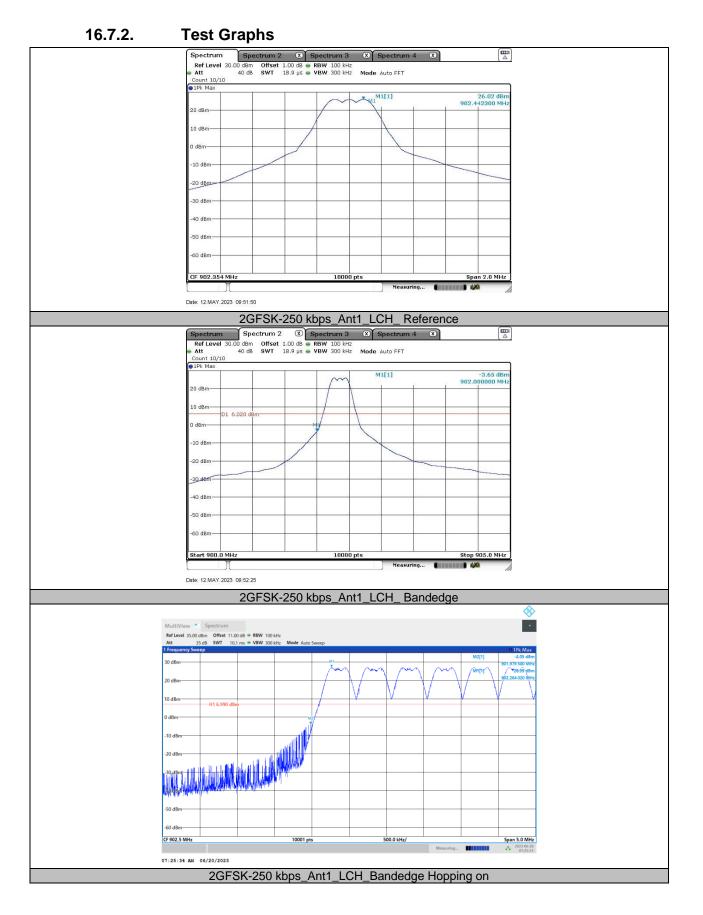


# 16.7. Appendix G6: CONDUCTED SPURIOUS EMISSION

16.7.1.	Test Result

Test Mode	Antenna	ChName	Result [dBm]	Verdict
		LCH		PASS
		MCH		PASS
2GFSK-250 kbps	Ant1	НСН	See the below graphs	PASS
		Hop_ Low		PASS
		Hop_ High		PASS

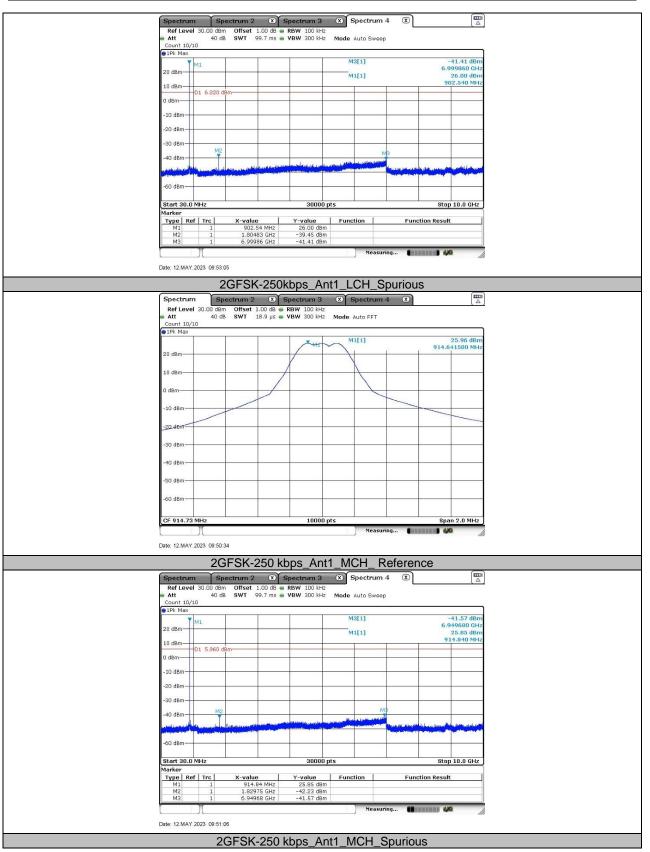




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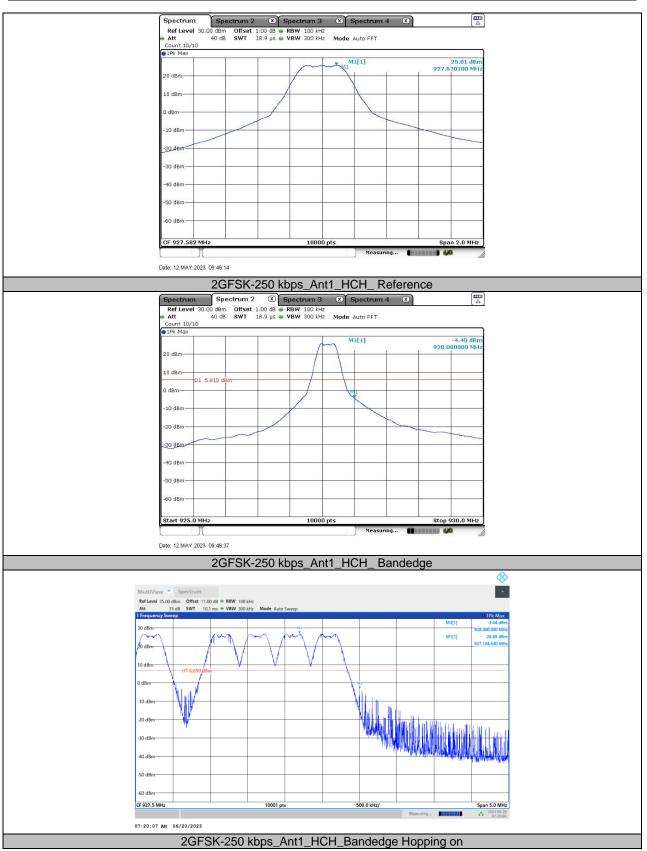
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Spectr	um Spectrum	2 8 Sp	ectrum 3	× Spect	um 4 🕱	)		
Att Count 1	40 dB SWT 10/10	t 1.00 dB 👄 R 99.7 ms 👄 V		Mode Auto 9	Sweep	6		
● 1Pk Ma 20 dBm-	M1			M3[1]		6.88	41.19 dBm 88860 GHz 25.85 dBm 7.800 MHz	
10 dBm-	D1 5.810 dBm							
-10 dBm -20 dBm								
-30 dBm					МЗ			
-40 dBm	M2 M2 M2		and the state of the	Marken Barris		and the second second	under sector des	
-60 dBm								
Start 30	D.0 MHz		30000 pt	ts		Stop	10.0 GHz	
Marker								
<u>Туре</u> М1 М2 М3	1 1.8	027.8 MHz 95501 GHz 98886 GHz	Y-value 25.85 dBm -43.94 dBm -41.19 dBm	Function	Fu	unction Result		
	)[]			) M	easuring 【		lin	
Date: 12.M	IAY.2023 09:47:21							
	2GFS	K-250 k	bps_An	t1_HC⊦	I_Spuric	ous		



# 17. FCC.SubG.4GFSK.200kbps

# 17.1. Appendix A7: DUTY CYCLE

# 17.1.1. Test Result

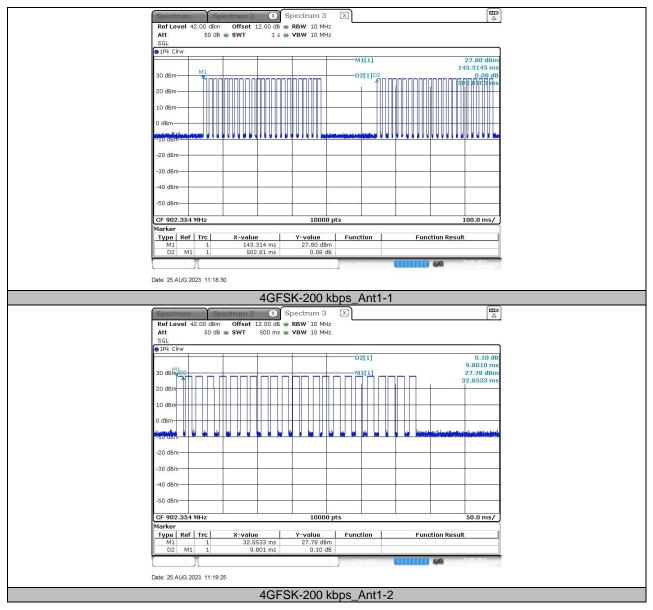
Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
4GFSK-200 kbps	225.423	502.81	0.4483	44.83	3.48	0.0044	1

Note:

Duty Cycle Correction Factor=10log (1/x). Where: x is Duty Cycle (Linear) Where: T is On Time On Time=D2-2\*2=9.801\*23=225.423 ms If that calculated VBW is not available on the analyzer then the next higher value should be used.



#### **Test Graphs**



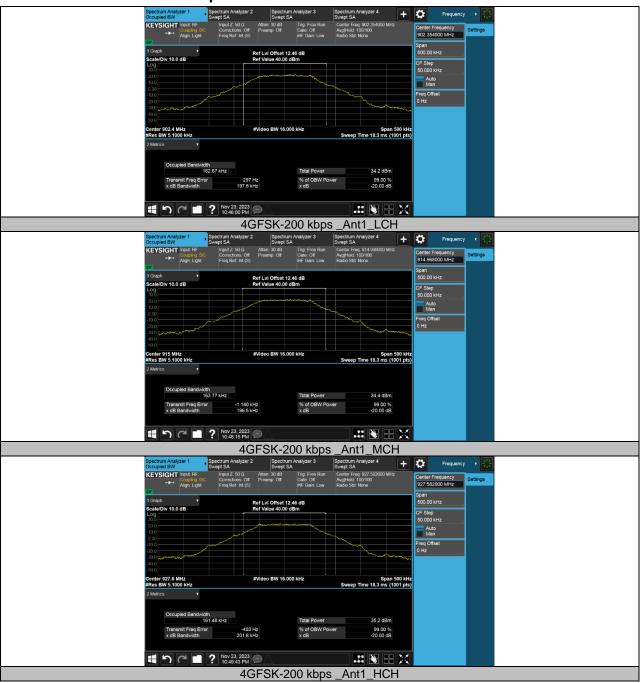


## 17.2. Appendix B7: 20DB BANDWIDTH & OCCUPIED CHANNEL BANDWIDTH

Test Mode	Antenna	Channel	20db EBW[MHz]	OCB [MHz]	Verdict
4GFSK-200 kbps		LCH	0.1978	0.16267	PASS
	Ant1	MCH	0.1965	0.16377	PASS
		HCH	0.2018	0.16148	PASS

#### 17.2.1. Test Result





#### 17.2.2. Test Graphs



# 17.3. Appendix C7: CONDUCTED OUTPUT POWER

#### 17.3.1. Test Result

Test Mode	Antenna	Channel	PEAK Result[dBm]	AVG Result[dBm]	Limit[dBm]	Verdict
4GFSK-200 kbps	Ant1 M	LCH	26.03	25.98	≤30	PASS
		MCH	26.23	26.19	≤30	PASS
		HCH	26.09	26.02	≤30	PASS



# 17.4. Appendix D7: CARRIER FREQUENCY SEPARATION

Test Mode	Antenna	Channel	Result [MHz]	Limit[MHz]	Verdict
4GFSK-200 kbps	Ant1	Нор	0.240	≥0.2018	PASS

## 17.4.2. Test Graphs

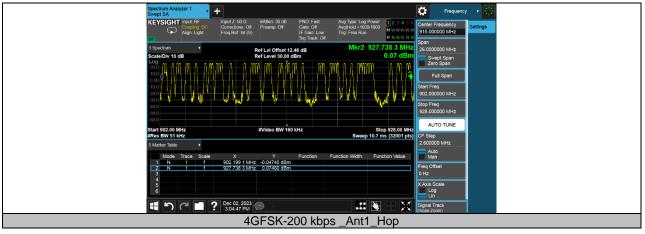
Spectrum Analyzer 1 Swept SA	Spectrum Analyzer 2 Swept SA Swept SA	• +	🔅 Frequency 🕇 🔆
KEYSIGHT Input: RF	DC Corrections: Off Preamp: Off Gate: Off	Avg Type: Log-Power Avg[Hold:>1000/1000 Trig: Free Run P N N N N N	Center Frequency 918.500000 MHz Span
1 Spectrum Scale/Div 10 dB Log	Ref Lvi Offset 12.46 dB Ref Level 35.00 dBm	ΔMkr2 240 kHz 0.00 dB	1.00000000 MHz
25.0 15.0 5.00			Full Span
-5.00 -15.0 -25.0			Start Freq 918.000000 MHz
-35 0 -45 0			Stop Freq 919.000000 MHz
Center 918.5000 MHz #Res BW 62 kHz	#Video BW 200 kHz	Span 1.000 MHz Sweep 1.00 ms (1001 pts)	AUTO TUNE CF Step
5 Markor Table Mode Trace S	Scale X Y Function a	Function Width Function Value	100.000 kHz Auto Man
1 N 1 2 Δ1 1 3	f 918.554 MHz 26.14 dBm f (Δ) 240 kHz (Δ0.0004864 dB		Freq Offset 0 Hz
4 5 6			X Axis Scale
	Nov 25, 2023 6:32:23 PM		Signal Track (Span Zoom)
	4GFSK-200 kbps	s_Ant1_Hop	



# 17.5. Appendix E7: NUMBER OF HOPPING FREQUENCIES

Test Mode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
4GFSK-200 kbps	Ant1	Нор	51	≥50	PASS

#### 17.5.2. Test Graphs





## 17.6. Appendix F7: TIME OF OCCUPANCY (DWELL TIME)

#### 17.6.1. Test Result

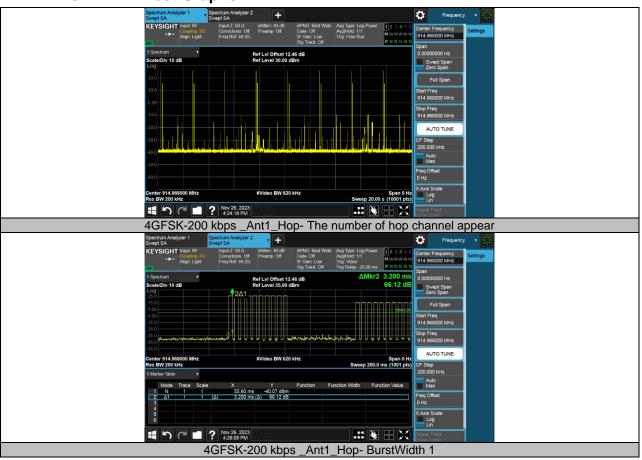
Test Mode	Antenna	Channel	Time of single slot 1 [ms]	number of single slot 1	Burst Width 1 [ms/hop/ch]	The number of hop channel appear
4GFSK-200 kbps	Ant1	Нор	3.200	10	32.00	8

Test Mode	Antenna	Channel	Dwell Time [ms]	Limit [ms]	Results
4GFSK-200 kbps	Ant1	Нор	256.00	400	PASS

Note:

4GFSK-200 kbps: The dwell time = Time of single slot \* The number of hop channel appear within 20s BurstWidth =Time of single slot\*number of single slot





#### 17.6.2. Test Graphs



# 17.7. Appendix G7:CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Mode	Antenna	ChName	Result [dBm]	Verdict
		LCH		PASS
		MCH		PASS
4GFSK-200 kbps	Ant1	HCH	See the below graphs	PASS
		Hop_ LCH	-	PASS
		Hop_ HCH		PASS

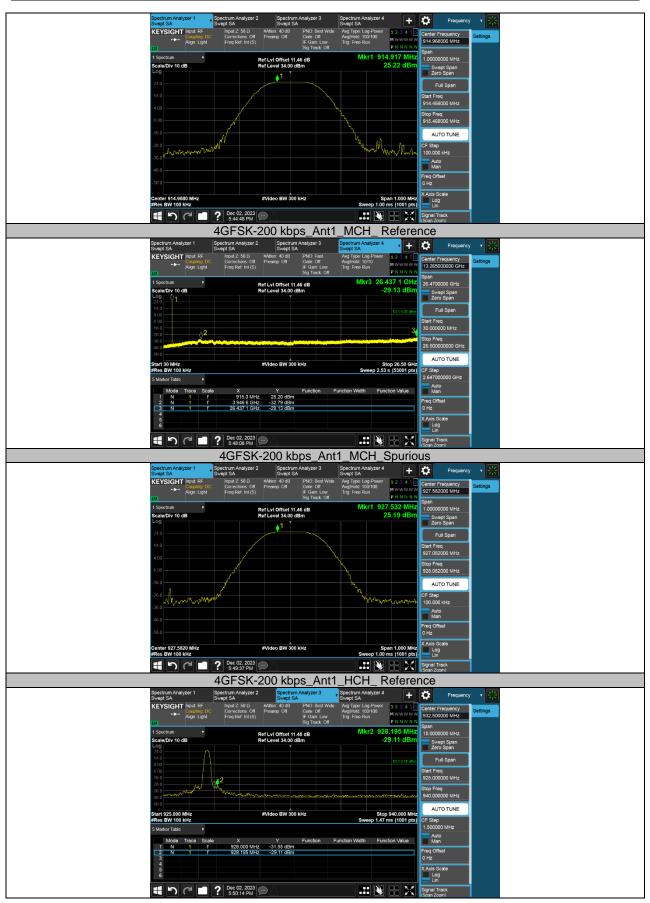




## 17.7.2. Test Graphs



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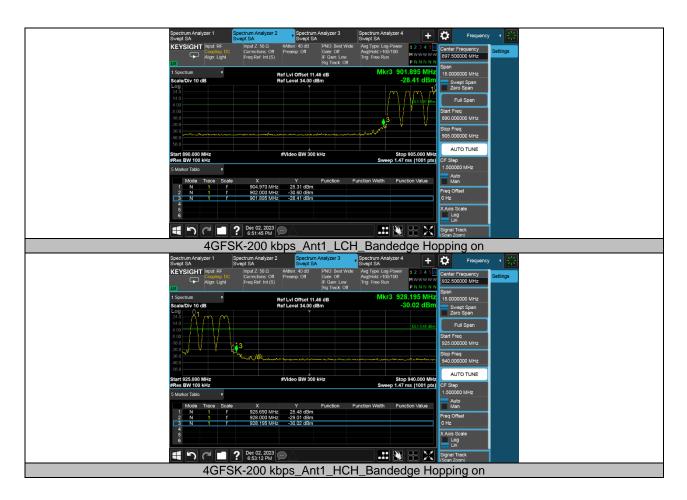
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	4GFSK-200 kbps_An	t1_HCH_ Bandedge	e
	Spectrum Analyzer 2 Spectrum Analyzer 3 Swept SA Swept SA	Spectrum Analyzer 4	Frequency •
KEYSIGHT Input RF Couping DC Augn: Light	Input Z: 50 Ω #Atten: 40 dB PNO: Fast Corrections. Off Preamp. Off Gate: Off Froq Ref: Int (S) IF Gain: Low Sig Track: Off	Trig: Free Run MWWWWW 13.	ter Frequency 265000000 GHz
1 Spectrum ▼ Scale/Div 10 dB Log ◊1	Ref Lvi Offset 11.46 dB Ref Level 34.00 dBm	-31.70 dBm	n 4700000 GHz Swept Span Zero Span
		DL1 5 19 dBm	Full Span
-6.00 -16.0 -26.0			t Freq 000000 MHz
-200 -360 -460 -560		26.	50000000 GHz
Start 30 MHz #Res BW 100 kHz	#Video BW 300 kHz	Stop 26.50 GHz Sweep 2.53 s (53001 pts) CF 5	AUTO TUNE Step
5 Marker Table • Mode Trace Scal	le X Y Function		47000000 GHz Auto Man
1 N 1 f 2 N 1 f 3 N 1 f 4 F	927.5 MHz 25.15 dBm 3.859 2 GHz -32.87 dBm 25.652 5 GHz -31.70 dBm	0 H:	
5			kis Scale Log Lin
	Pec 02, 2023 🗩 🛆	💶 👪 🖽 🔀 📴	nal Track in Zoom)
	4GFSK-200 kbps_A	nt1_HCH_Spurious	







# 18. FCC.SubG.4GFSK.250kbps

# 18.1. Appendix A8: DUTY CYCLE

## 18.1.1. Test Result

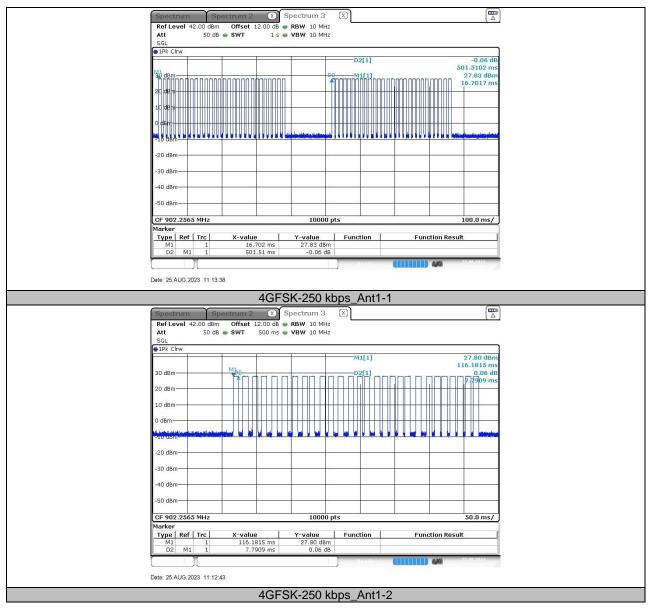
Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
4GFSK-250 kbps	218.1452	501.51	0.4350	43.50	3.62	0.0046	1

Note:

Duty Cycle Correction Factor=10log (1/x). Where: x is Duty Cycle (Linear) Where: T is On Time On Time=D2-2\*2=7.7909\*28=218.1452 ms If that calculated VBW is not available on the analyzer then the next higher value should be used.



#### **Test Graphs**



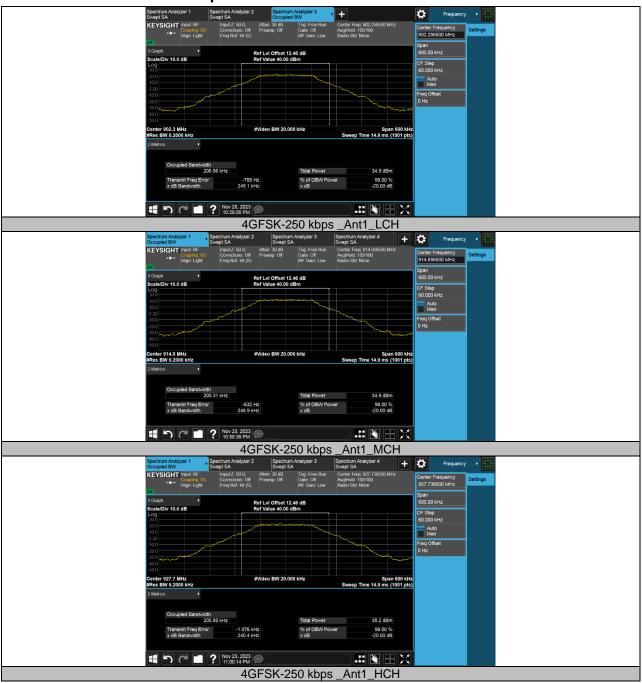


## 18.2. Appendix B8: 20DB BANDWIDTH & OCCUPIED CHANNEL BANDWIDTH

Test Mode	Antenna	Channel	20db EBW[MHz]	OCB [MHz]	Verdict
4GFSK-250 kbps Ant1		LCH	0.2451	0.20656	PASS
	Ant1	MCH	0.2489	0.20531	PASS
	-	HCH	0.2404	0.20580	PASS

#### 18.2.1. Test Result





#### 18.2.2. Test Graphs



# 18.3. Appendix C8: CONDUCTED OUTPUT POWER

#### 18.3.1. Test Result

Test Mode	Antenna	Channel	PEAK Result[dBm]	AVG Result[dBm]	Limit[dBm]	Verdict
4GFSK-200 kbps		LCH	26.04	25.99	≤30	PASS
	Ant1	MCH	26.11	26.08	≤30	PASS
		HCH	26.14	26.10	≤30	PASS

# **18.4. Appendix D8: CARRIER FREQUENCY SEPARATION**

Test Mode	Antenna	Channel	Result [MHz]	Limit[MHz]	Verdict
4GFSK-250 kbps	Ant1	Нор	0.281	≥0.2489	PASS

## 18.4.2. Test Graphs

Spectrum Analyzer 1 Swept SA	Spectrum Analyzer 2 Swept SA Swept SA	· +	Frequency 🔹 💥	
KEYSIGHT Input: RF Couping D Align: Light	Input Z: 50 Q #Atten: 40 dB PNO: Best Corrections: Off Preamp: Off Gale: Off Froq Rof: Int (S) Sig Track: Sig Track:	Avg Hold:>1000/1000 w Trig: Free Run MWWWW		
1 Spectrum v Scale/Div 10 dB Log	Ref Lvi Offset 12.46 dB Ref Level 35.00 dBm ⊘1 ▼	ΔMkr2 281 kHz 0.00 dE		
25 0 15 0 5 00		1241	Full Span	
-5.00			Start Freq 913.000000 MHz	
-25 0 -35 0 -45 0			Stop Freq 914.000000 MHz	
-55 0 Center 913,5000 MHz	#Video BW 240 kHz	Span 1.000 MHz	AUTO TUNE	
#Res BW 82 kHz 5 Markor Tablo v		Sweep 1.00 ms (1001 pts	100.000 kHz	
Mode Trace Sci 1 N 1	ale X Y Function 913.435 MHz 26.15 dBm	Function Width Function Value	Auto Man	
<u>2 Δ1 1</u>	(Δ) 281 kHz (Δ40.004808 dB		Freq Offset 0 Hz	
4 5 6			X Axis Scale Log Lin	
<b>4</b> n c <b>1</b>	Phov 25, 2023		Signal Track (Span Zoom)	
		ops _Ant1_Hop		

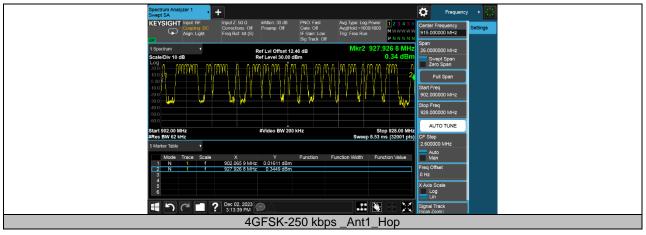


# 18.5. Appendix E8: NUMBER OF HOPPING FREQUENCIES

18.5.1.	Test Result
---------	-------------

Test Mode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
4GFSK-250 kbps	Ant1	Нор	51	≥50	PASS

#### 18.5.2. Test Graphs





# 18.6. Appendix F8: TIME OF OCCUPANCY (DWELL TIME)

#### 18.6.1. Test Result

Test Mode	Antenna	Channel	Time of single slot 1 [ms]	number of single slot 1	Burst Width 1 [ms/hop/ch]	The number of hop channel appear
4GFSK-250 kbps	Ant1	Нор	2.800	10	28.00	7

Test Mode	Antenna	Channel	Dwell Time [ms]	Limit [ms]	Results
4GFSK-250 kbps	Ant1	Нор	196.00	400	PASS

Note:

4GFSK-250 kbps: The dwell time = Time of single slot \* The number of hop channel appear within 20s BurstWidth =Time of single slot\*number of single slot





#### 18.6.2. Test Graphs



# 18.7. Appendix G8: CONDUCTED BAND EDGE AND SPURIOUS EMISSION

18.7.1. Test Result
---------------------

Test Mode	Antenna	ChName	Result [dBm]	Verdict
		LCH		PASS
4GFSK-250 kbps	Ant1	MCH		PASS
		HCH	See the below graphs	PASS
		Hop_ LCH	-	PASS
		Hop_ HCH		PASS





#### 18.7.2. Test Graphs



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Spectrum Applyment	Spectrum Analyzer 2 Spectrum Analyzer 3	Spectrum Analyzer 4		7
Spectrum Analyzer 1 Swept SA	Swept SA Swept SA	Spectrum Analyzer 4 Swept SA	🛟 Frequency 🔹 🗦	
KEYSIGHT Input: RF	Input Z: 50 Q #Atten: 40 dB PNO: Best Wide			
Coupling: DC Align: Light	Corrections: Off Preamp: Off Gate: Off Freq Ref: Int (S) IF Gain: Low	Trig: Free Run	914.856500 MHz	
Da	Sig Track: Off	P N N N N N		
1 Spectrum v		Mkr1 914.794 MHz	Span 1.00000000 MHz	
Scale/Div 10 dB	Ref LvI Offset 11.46 dB Ref Level 34.00 dBm	25.22 dBm		
Log		LO.LE GDIN	Swept Span Zero Span	
24.0	<b>↓</b> 1			
24.0			Full Span	
14.0			Start Freq	
		<b>**</b> *	914.356500 MHz	
4.00		<u>V</u>	Stop Freq	
-6.00	~^N	· \	915.356500 MHz	
		<u> </u>		
-16.0	1		AUTO TUNE	
26.0	Y	W	CF Step	
my how more		Winner	100.000 kHz	
-36.0				
46.0			Auto Man	
-40.0			Freq Offset	
-56.0			0 Hz	
			X Axis Scale	
Center 914.8565 MHz	#Video BW 300 kHz	Span 1.000 MHz	Log	
#Res BW 100 kHz		Sweep 1.00 ms (1001 pts)	Lin	
<b>4</b> 50	? Dec 02, 2023 5:55:51 PM	.# 👪 🗄 🔀	Signal Track	
			(Span Zoom)	
	4GFSK-250 kbps_Ant	1 MCH Refere	nce	
Spectrum Analyzer 1 Swept SA	Spectrum Analyzer 2 Spectrum Analyzer 3 Swept SA Swept SA	Spectrum Analyzer 4	🔅 Frequency 🔹 🗦	
KEYSIGHT Input: RF	Input Z: 50 Q #Atten: 40 dB PNO: Fast	Avg Type: Log-Power 123456	Cantas Francisco	
Coupling: DC Align: Light	Corrections: Off Preamp: Off Gate: Off	Avginoid: 10/10	Center Frequency 13.265000000 GHz Settings	
Align: Light	Freq Ref: Int (S) IF Gain: Low Sig Track: Off	Trig: Free Run P N N N N N		
1 Spectrum v		Mkr3 25.879 7 GHz	Span	
1 Spectrum   Scale/Div 10 dB	Ref LvI Offset 11.46 dB Ref Level 34.00 dBm	-30.43 dBm	26.4700000 GHz	
Scale/Div 10 dB	Rei Levei 34.00 dBm	-30.43 dBm	Swept Span Zero Span	
24.0				
14.0		DL1522 dBm	Full Span	
4.00			Start Freq	
-16.0			30.000000 MHz	
-26.0				
-36.0			Stop Freq 26.500000000 GHz	
-46.0			20.000000000000	
			AUTO TUNE	
Start 30 MHz #Res BW 100 kHz	#Video BW 300 kHz	Stop 26.50 GHz	CE Step	
		Sweep 2.53 s (53001 pts)	CF Step 2.647000000 GHz	
5 Markor Tablo 🔹				
Mode Trace Scale	X Y Function	Function Width Function Value	Auto Man	
1 N 1 f 2 N 1 f	915.0 MHz 25.17 dBm		Freq Offset	
2 N 1 f	3.797 2 GHz -32.84 dBm 25.879 7 GHz -30.43 dBm		0 Hz	
4				
5			X Axis Scale	
			Log Lin	
<b>4</b> 50	P Dec 02, 2023	X 🗄 🗶 🎞	Signal Track	
	• 5:57:44 PM		(Coop Zoom)	
	4GFSK-250 kbps_An	t1_MCH_Spurio	us	-
Spectrum Analyzer 1	4GFSK-250 kbps_An	t1_MCH_Spurio	us	a a a a a a a a a a a a a a a a a a a
	4GFSK-250 kbps_An Spectrum Analyzer 2 Swept SA Inout 2: 50.0 #Attor: 40.dB PNO: Best Wide	t1_MCH_Spurio	US Frequency	
KEYSIGHT Input: RF	4GFSK-250 kbps_An Spectrum Analyzer 2 Swept SA Inout 2: 50.0 #Attor: 40.dB PNO: Best Wide	t1_MCH_Spurio	Center Frequency	
	4GFSK-250 kbps_An Spectrum Analyzer 2 Swept SA Input 25 0 0 extension Green Kert In(5) extension of Free Ref Information Free Ref In(5) extension of Free Ref Information Free Ref Information of Free Ref Information Free Ref Information	t1_MCH_Spurio	US Frequency	
KEYSIGHT Input: RF Couping: DC Align: Light	4GFSK-250 kbps_An Spectrum Analyzer 2 Swept SA Input Z 50 0 Input Z 50 0 Correctors, Of Freq Rof Int (S) Freamp, Of Freamp, Of Sig Track Off	t1_MCH_Spuriol Spectrum Analyzer 4 Swept SA • Avg Type Log Power AvgTyde 1001000 Trg: Free Run P N N N N N	US Frequency Center Frequency 927.736500 MHz Span	
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KEYSIGHT Input för Agen Land         1 Spectrum         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         240         260         27,335 MHz         Spectrum Analyzer 1         260         240         240         240         240	AGFSK-250 kbps_An Spectrum Analyzer 3 Suppt 3 00 m 200 m 2	11_MCH_Spurio           Spectrum Analyzer 4 Swept 3:           Swept 3:           Analyzer 4 Swept 3:           Mitra 927,747 MHz 25.18 dBm           Spectrum Analyzer 4 Swept 3:	US         Frequency         Sectors           Center Frequency         Sectors         Sectors           27 735500 MHz         Sectors         Sectors           28 Separt         Zecopan         Sectors           28 Sectors         Sectors         Sectors           15 Sectors         Sectors         Sectors           28 Sectors         Sectors         Sectors           28 Sectors         Sectors         Sectors           28 Sectors         Sectors         Sectors           28 Sectors         Sectors         Sectors	
KEYSIGHT mark for Age Load 1 Spectrum 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AGFSK-250 kbps_An Spectrum Analyzer 3 Suppt 3 00 m 200 m 2	11_MCH_Spurio           Spectrum Analyzer 4 Swept 3:           Swept 3:           Analyzer 4 Swept 3:           Mitra 927,747 MHz 25.18 dBm           Spectrum Analyzer 4 Swept 3:	US         Frequency         Sectors           Center Frequency         Sectors         Sectors           27 735500 MHz         Sectors         Sectors           28 Separt         Zecopan         Sectors           28 Sectors         Sectors         Sectors           15 Sectors         Sectors         Sectors           28 Sectors         Sectors         Sectors           28 Sectors         Sectors         Sectors           28 Sectors         Sectors         Sectors           28 Sectors         Sectors         Sectors	
KEYSIGHT Inpak för angen Land         1 Spectnum         1 Spectnum         240         400         000         140         000         140         000 <td< td=""><td>AGFSK-250 kbps_An Spectrum Analyzer 3 Swept 3</td><td>t1MCH_Spurio Spectrum Analyzer 4 Compiled top Prover Trg: Free Rum Merry 4 Sweep 1.00 ms (1001 mtr) Sweep 1.00 ms</td><td>US         Frequency         Second           Center Frequency         Second         Second           27 735500 MHz         Second         Second           Span         2000000 MHz         Second           2000 Second         Second         Second           2000 Sec</td><td></td></td<>	AGFSK-250 kbps_An Spectrum Analyzer 3 Swept 3	t1MCH_Spurio Spectrum Analyzer 4 Compiled top Prover Trg: Free Rum Merry 4 Sweep 1.00 ms (1001 mtr) Sweep 1.00 ms	US         Frequency         Second           Center Frequency         Second         Second           27 735500 MHz         Second         Second           Span         2000000 MHz         Second           2000 Second         Second         Second           2000 Sec	
KEYSIGHT Inpak för angen Land         1 Spectnum         1 Spectnum         240         400         000         140         000         140         000 <td< td=""><td>AGFSK-250 kbps_An Spectrum Analyzer 3 Suppt 3 00 m 200 m 2</td><td>t1_MCH_Spurio Spectrum Analyzer 4 Merce 200 Merce Ram Merce Ra</td><td>US         Frequency         Sectors           Center Frequency         Sectors         Sectors           27 735500 MHz         Sectors         Sectors           28 Separt         Zecopan         Sectors           28 Sectors         Sectors         Sectors           15 Sectors         Sectors         Sectors           28 Sectors         Sectors         Sectors           28 Sectors         Sectors         Sectors           28 Sectors         Sectors         Sectors           28 Sectors         Sectors         Sectors</td><td></td></td<>	AGFSK-250 kbps_An Spectrum Analyzer 3 Suppt 3 00 m 200 m 2	t1_MCH_Spurio Spectrum Analyzer 4 Merce 200 Merce Ram Merce Ra	US         Frequency         Sectors           Center Frequency         Sectors         Sectors           27 735500 MHz         Sectors         Sectors           28 Separt         Zecopan         Sectors           28 Sectors         Sectors         Sectors           15 Sectors         Sectors         Sectors           28 Sectors         Sectors         Sectors           28 Sectors         Sectors         Sectors           28 Sectors         Sectors         Sectors           28 Sectors         Sectors         Sectors	

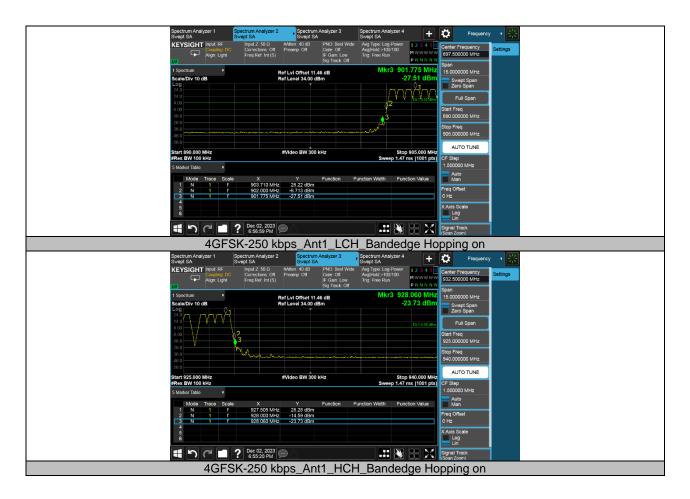
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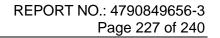


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	4GFSK-250 kbps_An	t1_HCH_ Bandedge	
Spectrum Analyzer 1 Swept SA	Spectrum Analyzer 2 Spectrum Analyzer 3 Swept SA Swept SA	owept on	Frequency •
KEYSIGHT Input RF Couping DC Align: Light	Input Z: 50 Ω #Atten: 40 dB PNO: Fast Corrections: Off Preamp: Off Gate: Off Freq Ref: Int (S) IF Gain: Low Sig Track: Off	Avg Type Log-Powor 1 2 3 4 5 0 Avg1Hold: 10/10 Trig: Free Run P N N N N N Span	
1 Spectrum • Scale/Div 10 dB Log 01	Ref Lvi Offset 11.46 dB Ref Level 34.00 dBm	Mkr3 26.123 4 GHz -30.52 dBm 26.4700000 Swept 5 Zero Sp	Span
		DL1 5 18 dbm Full S	span
-6 00 -16 0		Start Freq 30.000000 I	MHz
-36 0 -46 0 -56 0		Stop Freq 26.500000	
Start 30 MHz #Res BW 100 kHz	#Video BW 300 kHz	Stop 26.50 GHz Sweep 2.53 s (53001 pts) CF Step	
5 Marker Table • Mode Trace Sca	le X Y Function	Function Width Function Value	00 GHz
1 N 1 f 2 N 1 f 3 N 1 f	928.0 MHz 25.12 dBm 4.005 0 GHz -32.72 dBm 26.123 4 GHz -30.52 dBm	Freq Offset 0 Hz	
5		X Axis Scale	
	Pec 02, 2023	Signal Track (Span Zoom)	
	4GFSK-250 kbps_A	nt1_HCH_Spurious	









# 19. FCC.SubG.4GFSK.350kbps

# 19.1. Appendix A9: DUTY CYCLE

## 19.1.1. Test Result

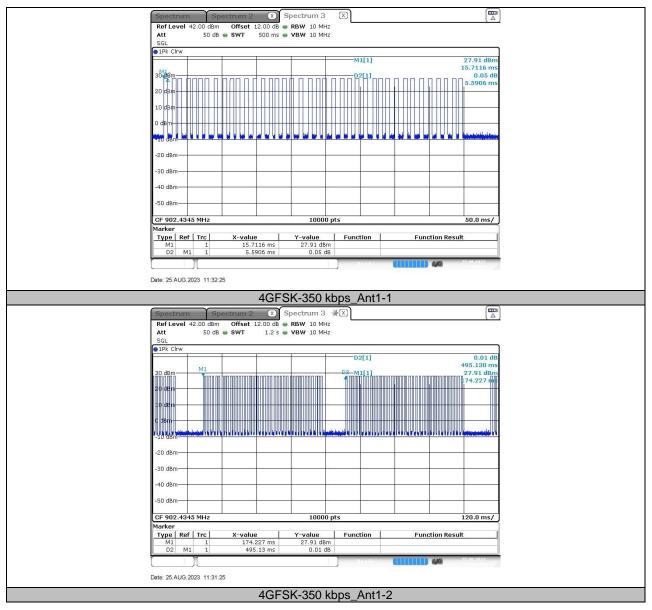
Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
4GFSK-350 kbps	218.033	495.13	0.4404	44.04	3.56	0.0046	1

Note:

Duty Cycle Correction Factor=10log (1/x). Where: x is Duty Cycle (Linear) Where: T is On Time If that calculated VBW is not available on the analyzer then the next higher value should be used.



#### **Test Graphs**





# 19.2. Appendix B9: 20DB BANDWIDTH & OCCUPIED CHANNEL BANDWIDTH

Test Mode	Antenna	Channel	20db EBW[MHz]	OCB [MHz]	Verdict
4GFSK-350 kbps	Ant1	LCH	0.3505	0.28471	PASS
		MCH	0.3424	0.28084	PASS
		HCH	0.3487	0.28394	PASS

#### 19.2.1. Test Result