

6. Carrier Frequencies Separation

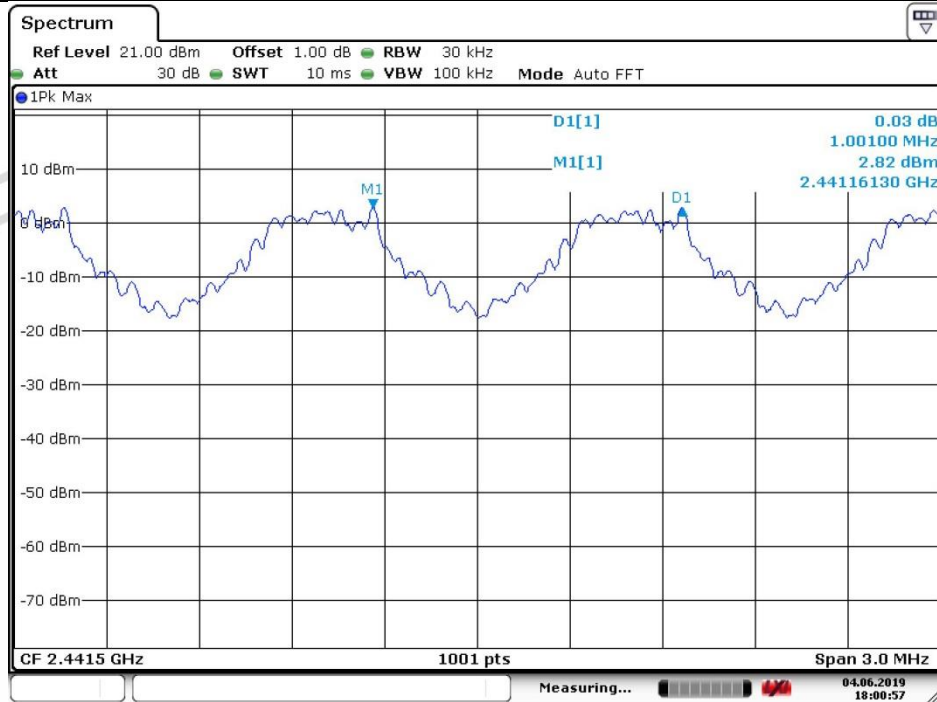
6.1. Test Results

GFSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Middle	1001	647.3	Pass
$\pi/4$ DQPSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Middle	998	855.1	Pass
8DPSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Middle	1001	851.1	Pass

Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	971.0	647.3
$\pi/4$ DQPSK	1282.7	855.1
8DPSK	1276.7	851.1

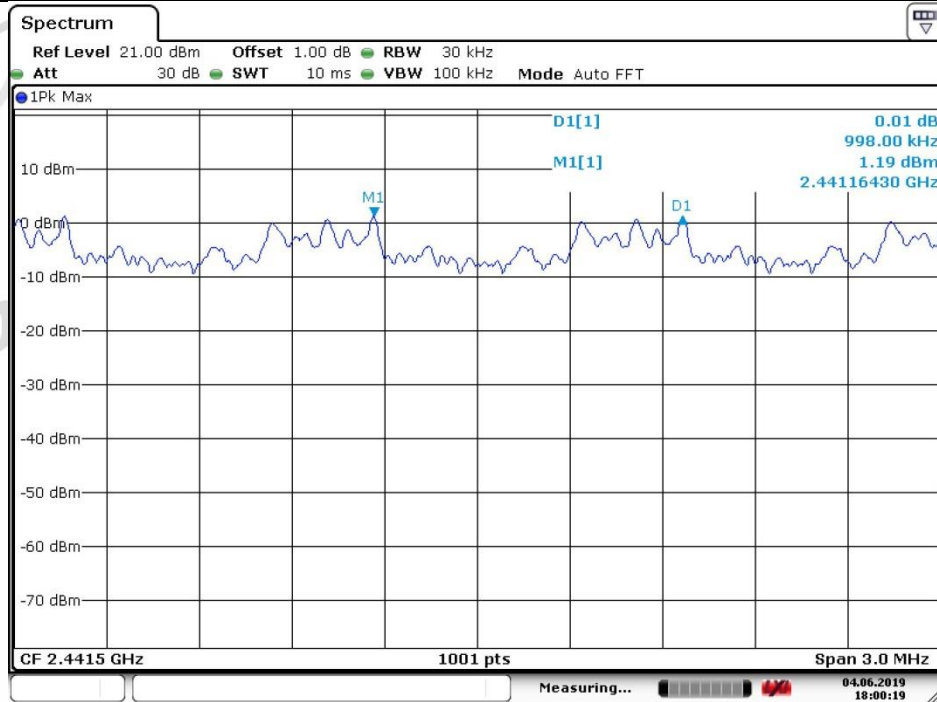
6.2. Test plots:

Test mode:	GFSK	Test channel:	Middle
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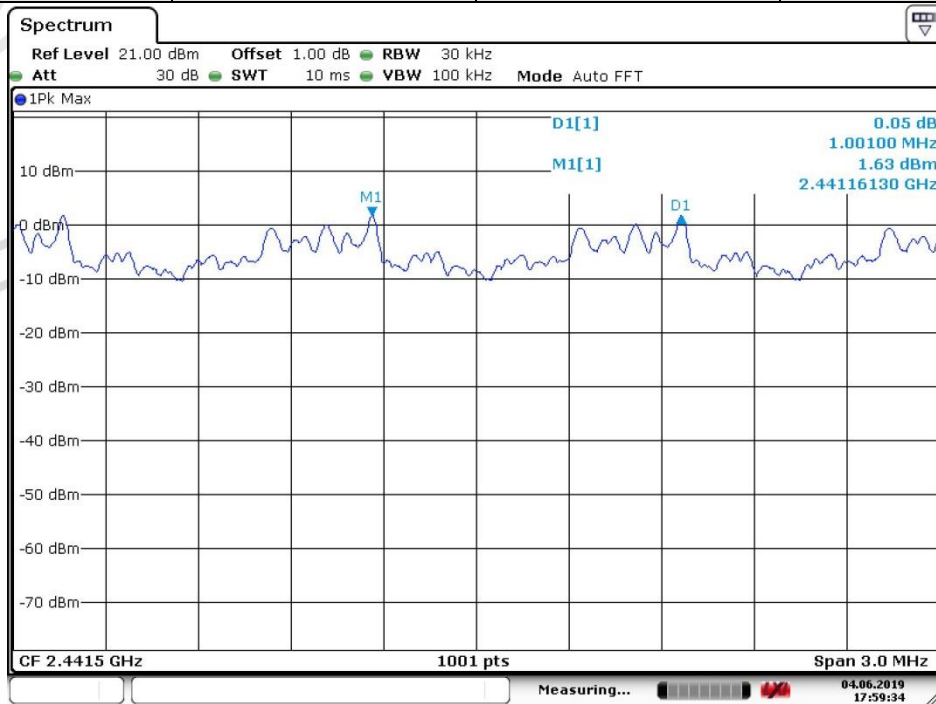
Date: 4.JUN.2019 18:00:57

Test mode:	$\pi/4$ DQPSK	Test channel:	Middle
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Date: 4.JUN.2019 18:00:20

Test mode:	8DPSK	Test channel:	Middle
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Date: 4.JUN.2019 17:59:34

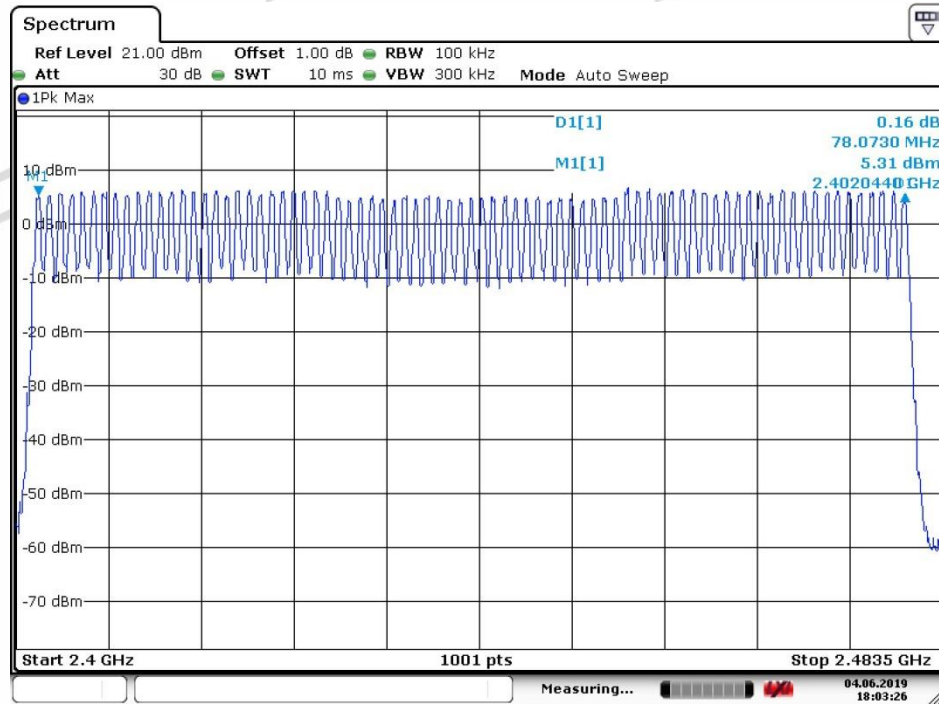
7. Hopping Channel Number

7.1. Test Results

Mode	Hopping channel numbers	Limit
GFSK	79	≥ 15
$\pi/4$ DQPSK	79	≥ 15
8DPSK	79	≥ 15

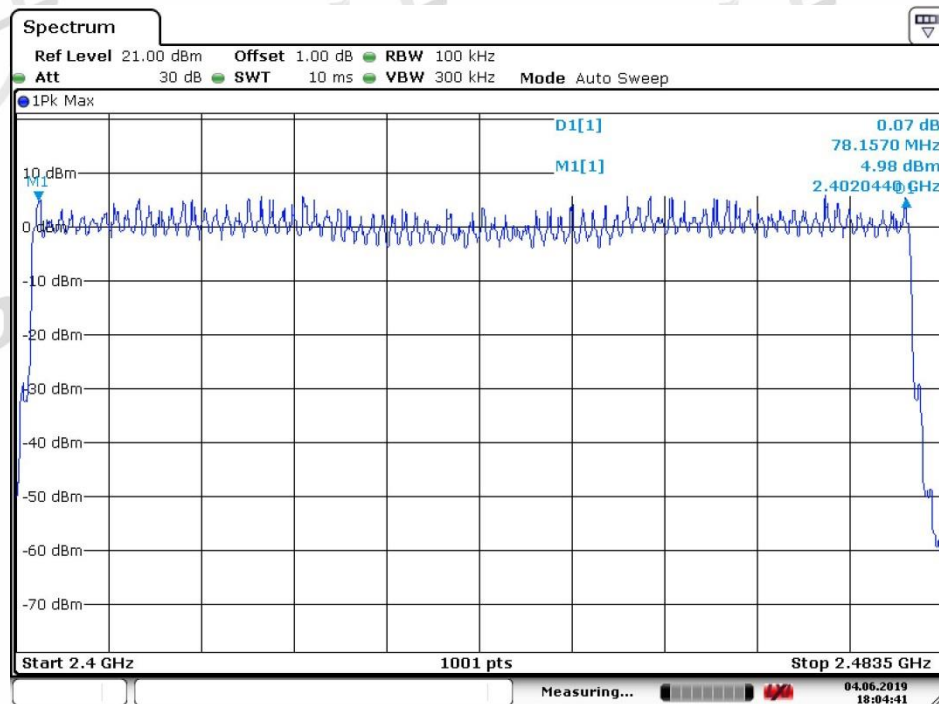
7.2. Test plots

GFSK



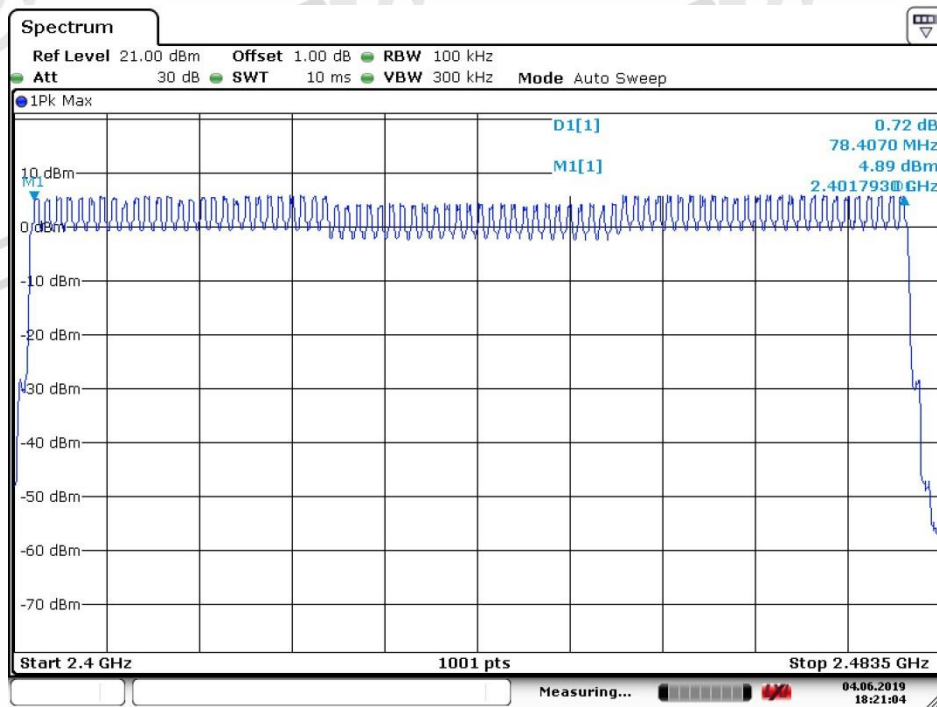
Date: 4 JUN 2019 18:03:26

$\pi/4$ DQPSK



Date: 4 JUN 2019 18:04:42

8DPSK



Date: 4 JUN. 2019 18:21:04

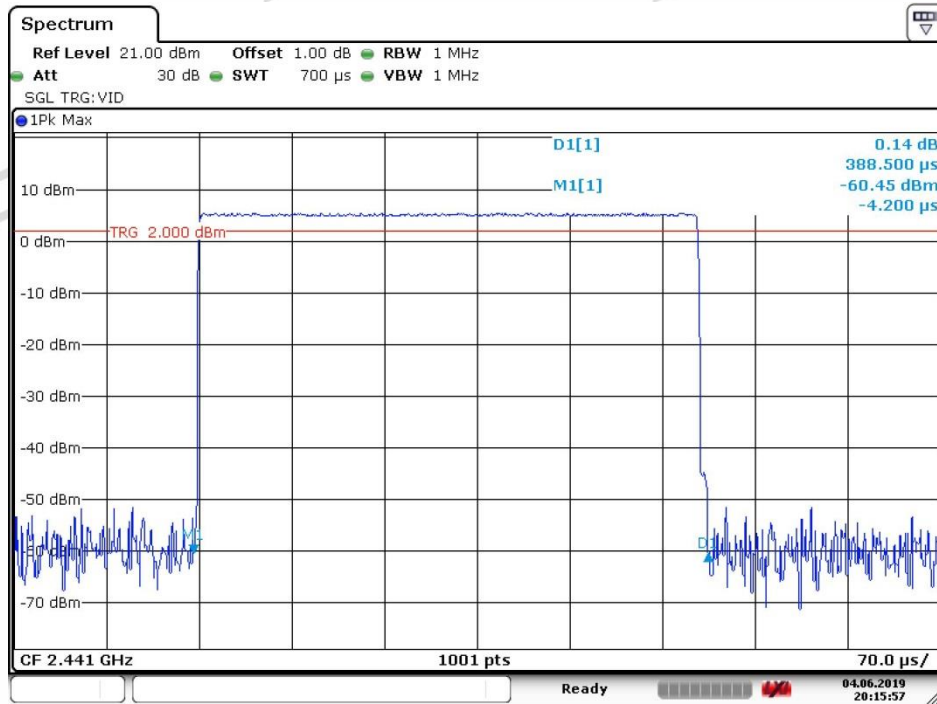
8. Dwell Time

8.1. Test Results

Operation Modes	On time (ms) on one channel
DH1	0.389
DH3	1.652
DH5	2.909
2-DH1	0.395
2-DH3	1.655
2-DH5	2.919
3-DH1	0.398
3-DH3	1.664
3-DH5	2.914

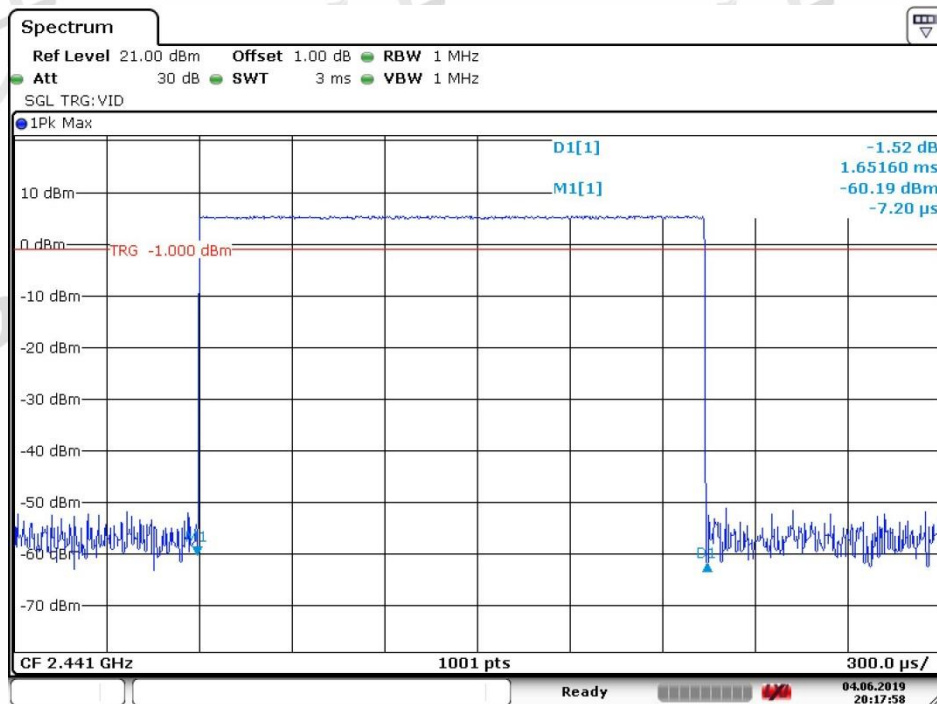
8.2. Test plots

DH1 _ Middle Channel



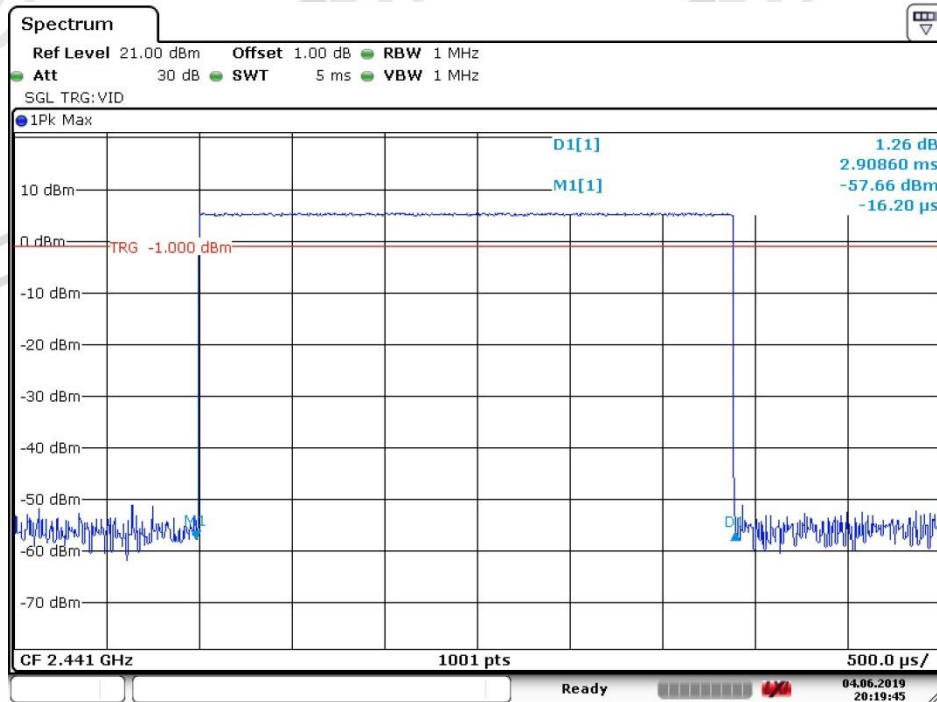
Date: 4.JUN.2019 20:15:57

DH3 _ Middle Channel



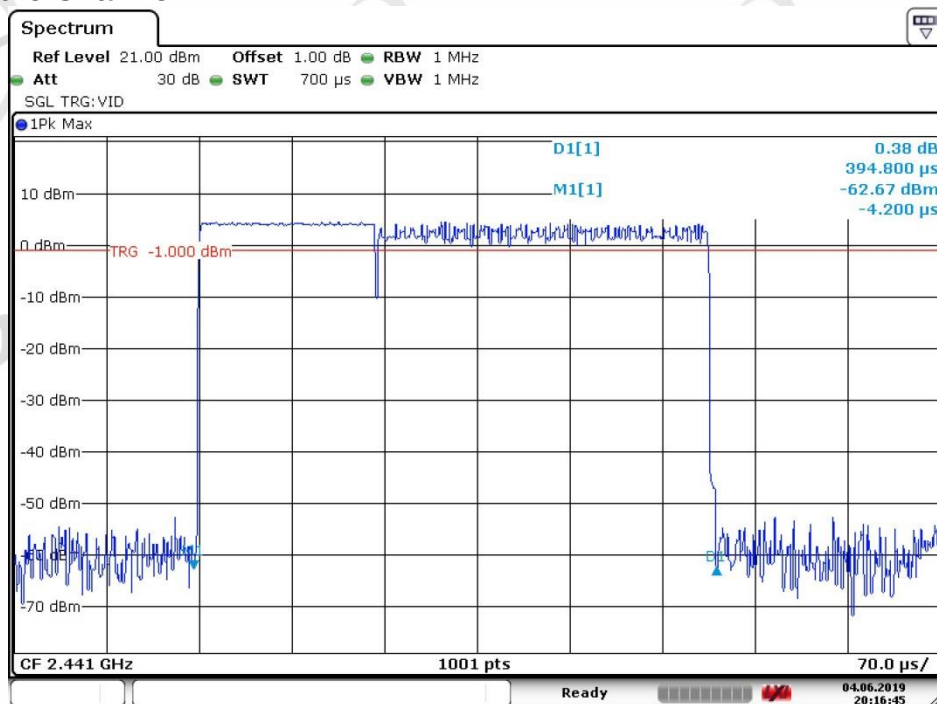
Date: 4.JUN.2019 20:17:58

DH5 _ Middle Channel



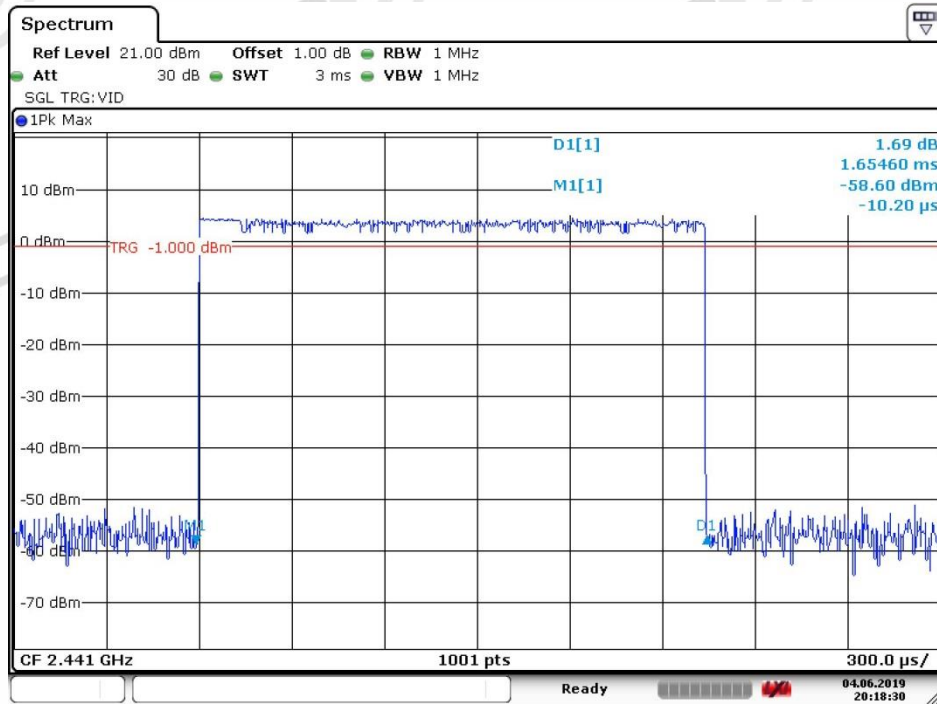
Date: 4.JUN.2019 20:19:45

2DH1 _ Middle Channel



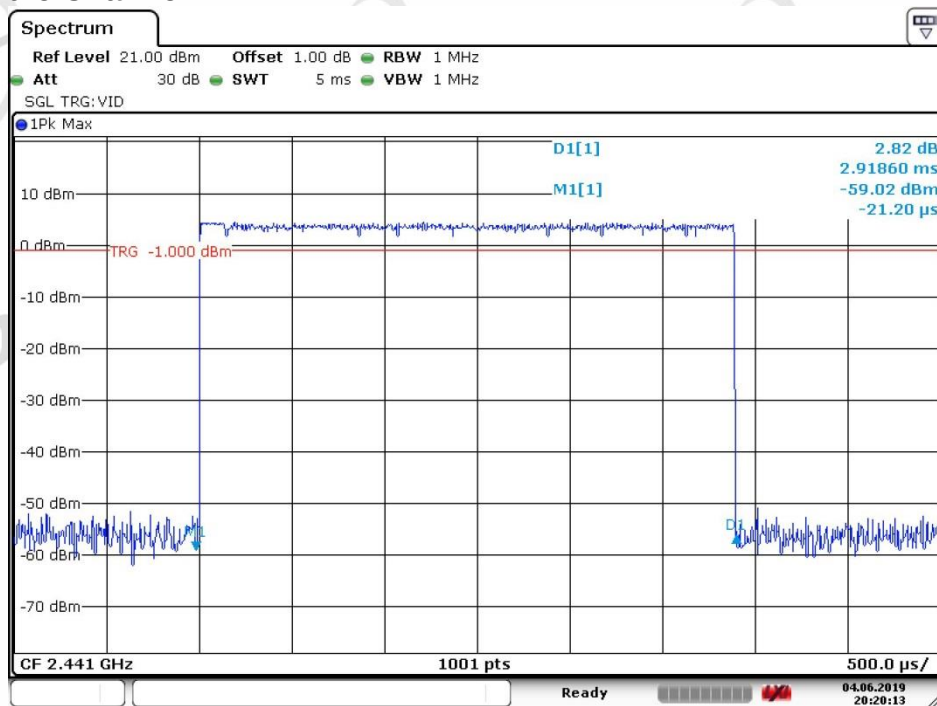
Date: 4.JUN.2019 20:16:45

2DH3 _ Middle Channel



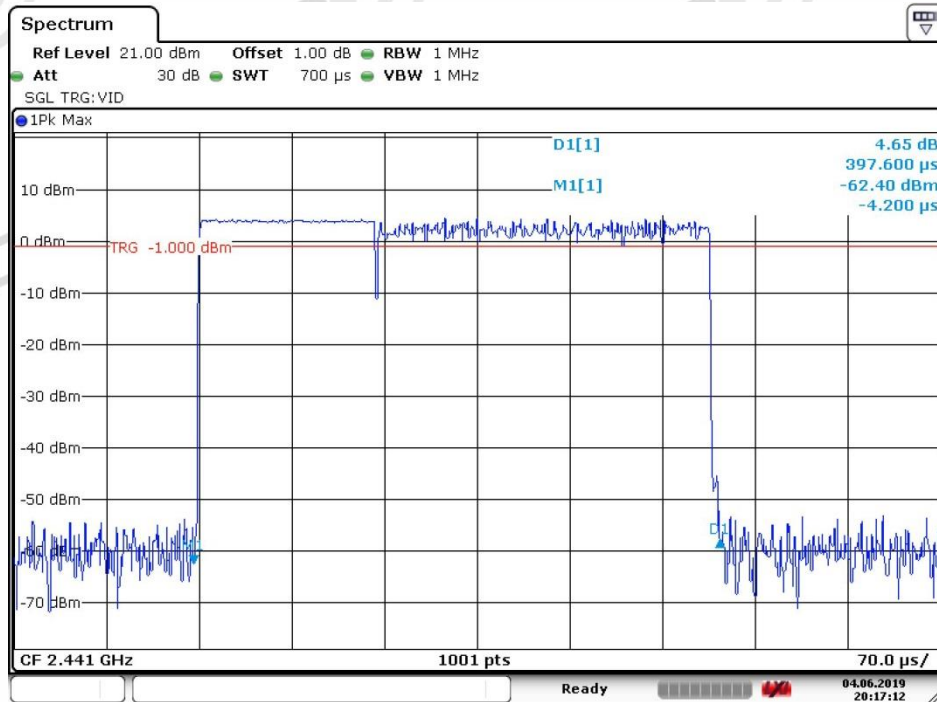
Date: 4.JUN.2019 20:18:30

2DH5 _ Middle Channel



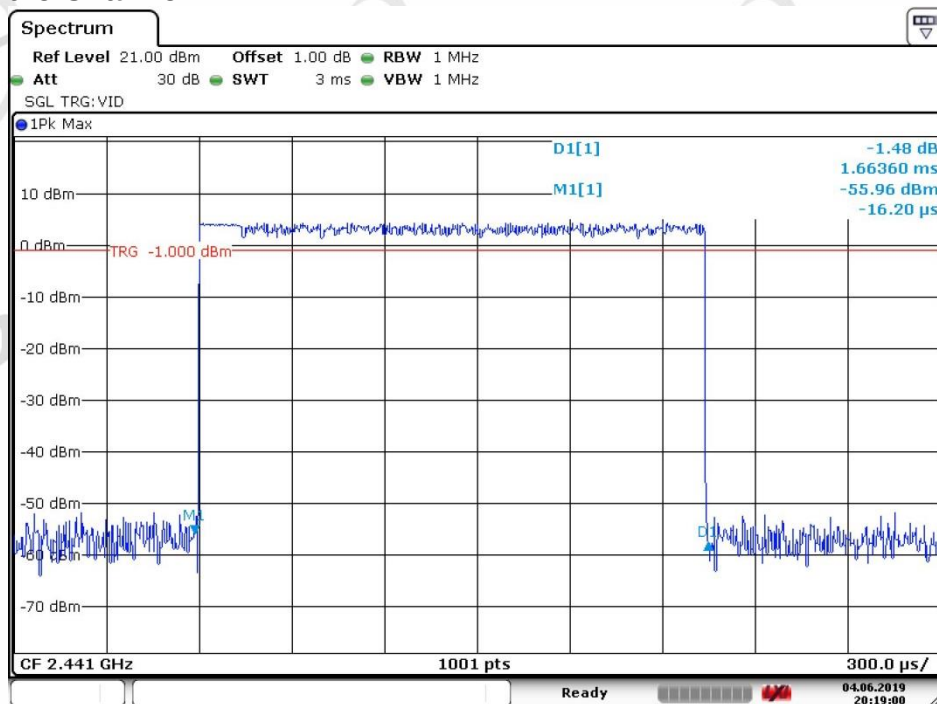
Date: 4.JUN.2019 20:20:13

3DH1 _ Middle Channel



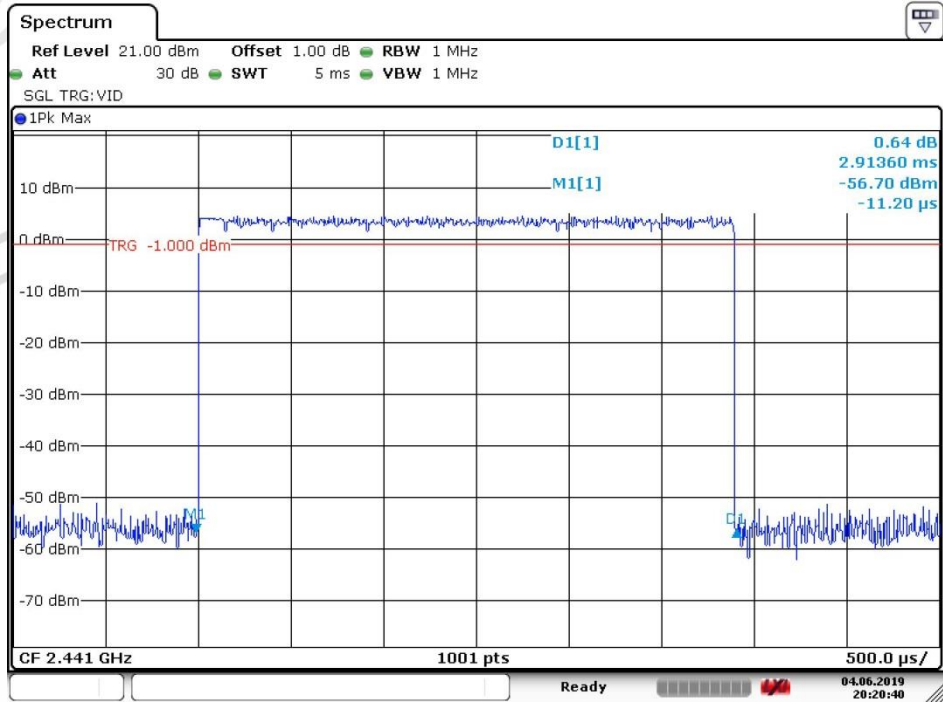
Date: 4.JUN.2019 20:17:12

3DH3 _ Middle Channel



Date: 4.JUN.2019 20:19:00

3DH5_Middle Channel

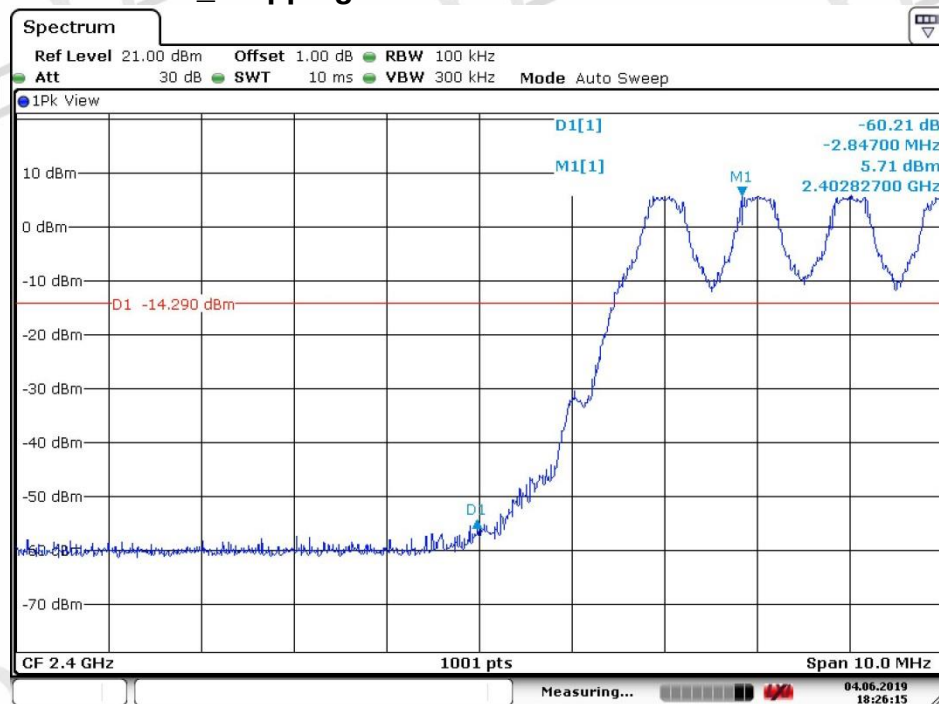


Date: 4 JUN. 2019 20:20:40

9. Band-edge for RF Conducted Emissions

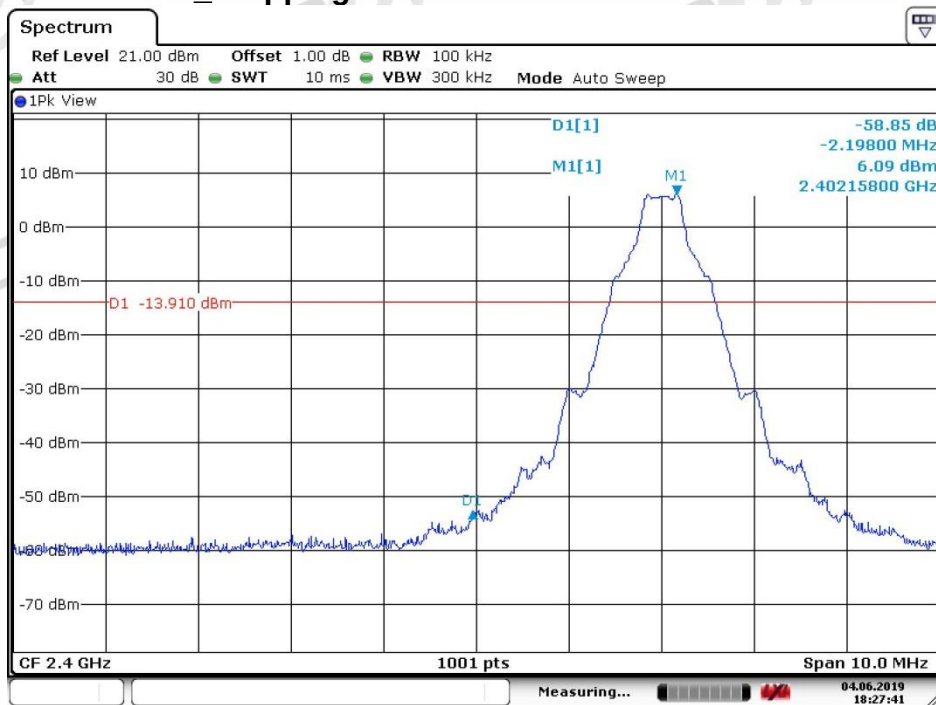
9.1. Test plots

GFSK _Lowest Channel_ Hopping ON



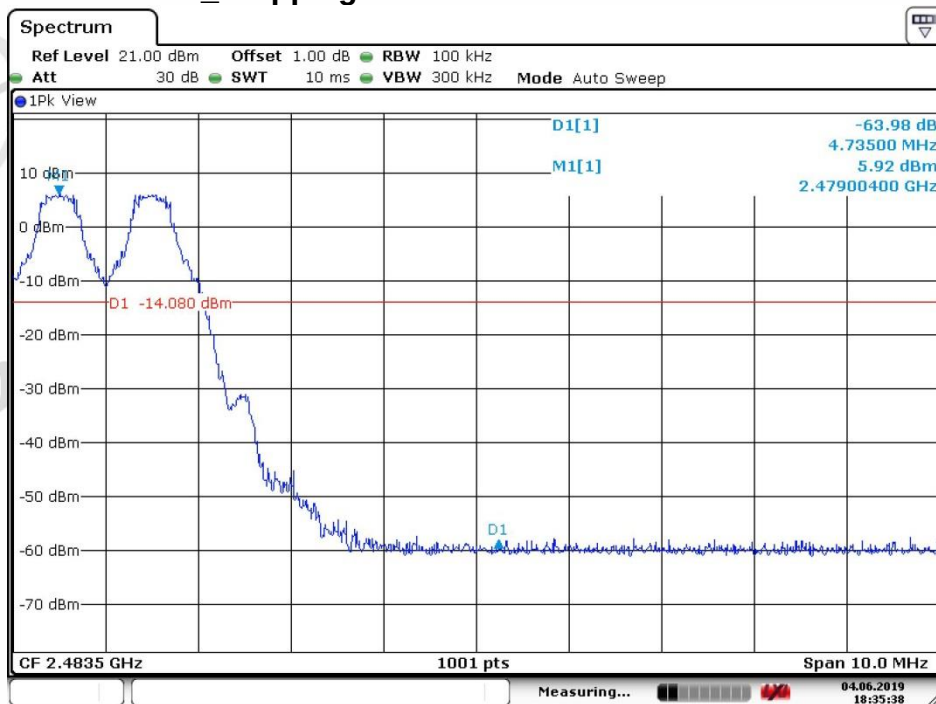
Date: 4.JUN.2019 18:26:15

GFSK _Lowest Channel_ Hopping OFF



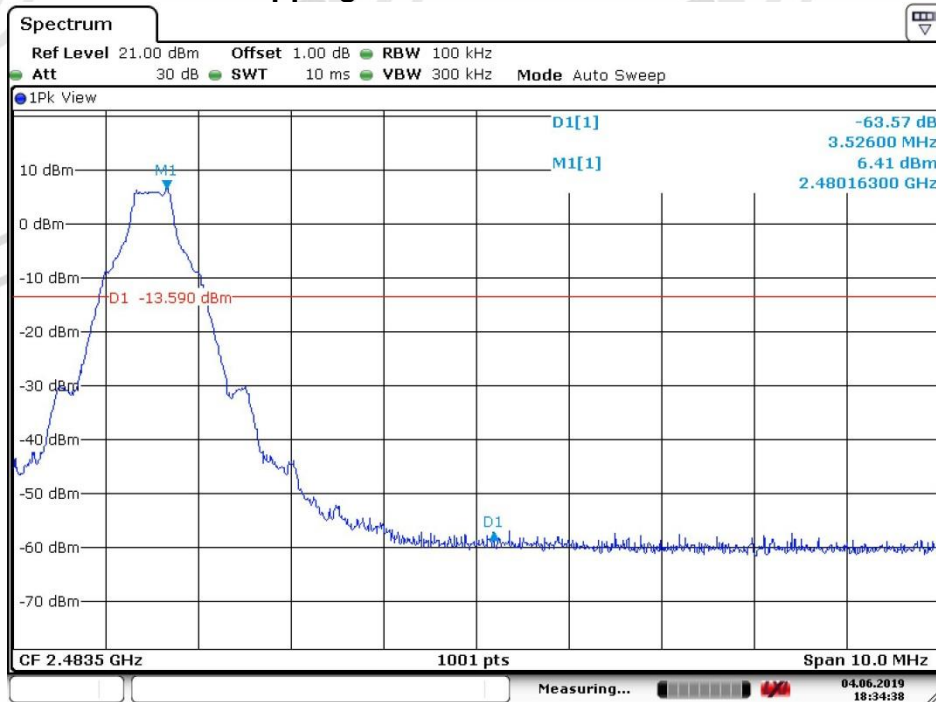
Date: 4.JUN.2019 18:27:41

GFSK _Highest Channel_ Hopping ON

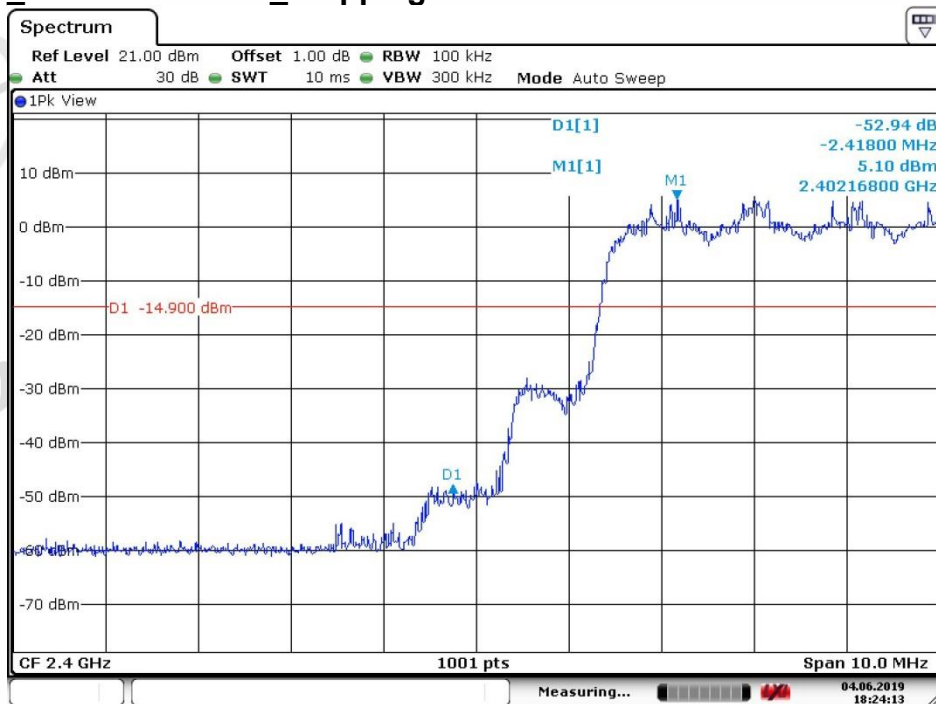


Date: 4.JUN.2019 18:35:38

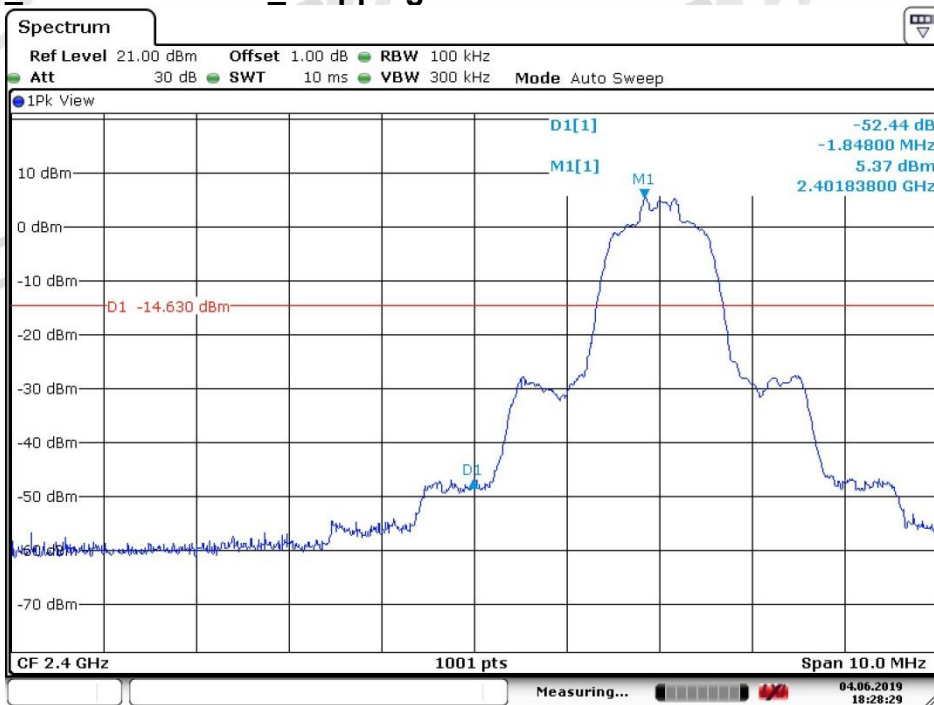
GFSK_Highest Channel_Hopping OFF



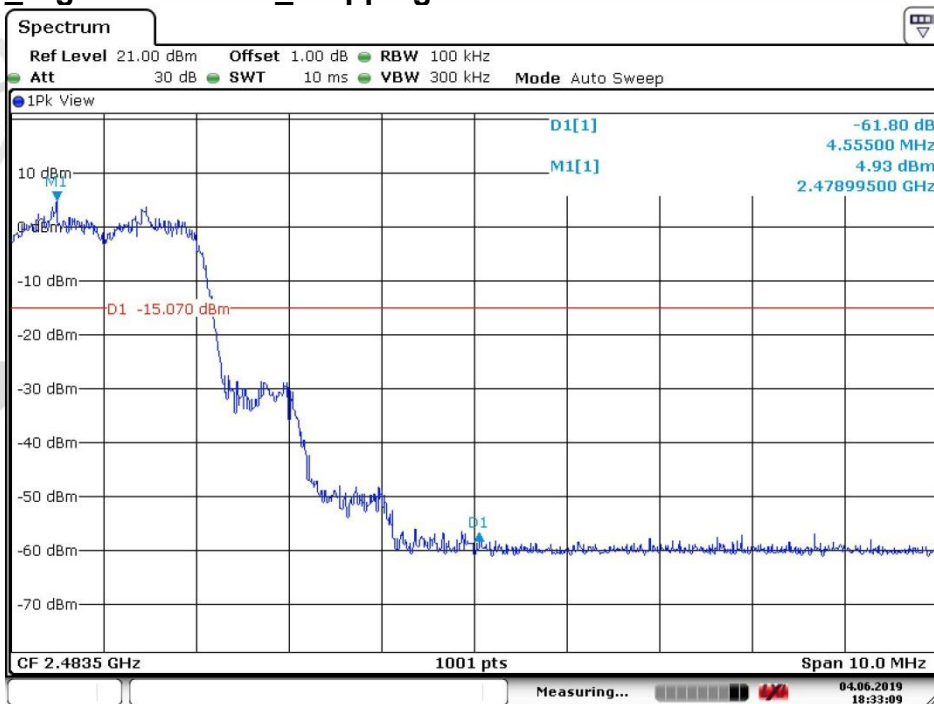
Date: 4.JUN.2019 18:34:38

 $\pi/4$ DQPSK_Lowest Channel_Hopping ON

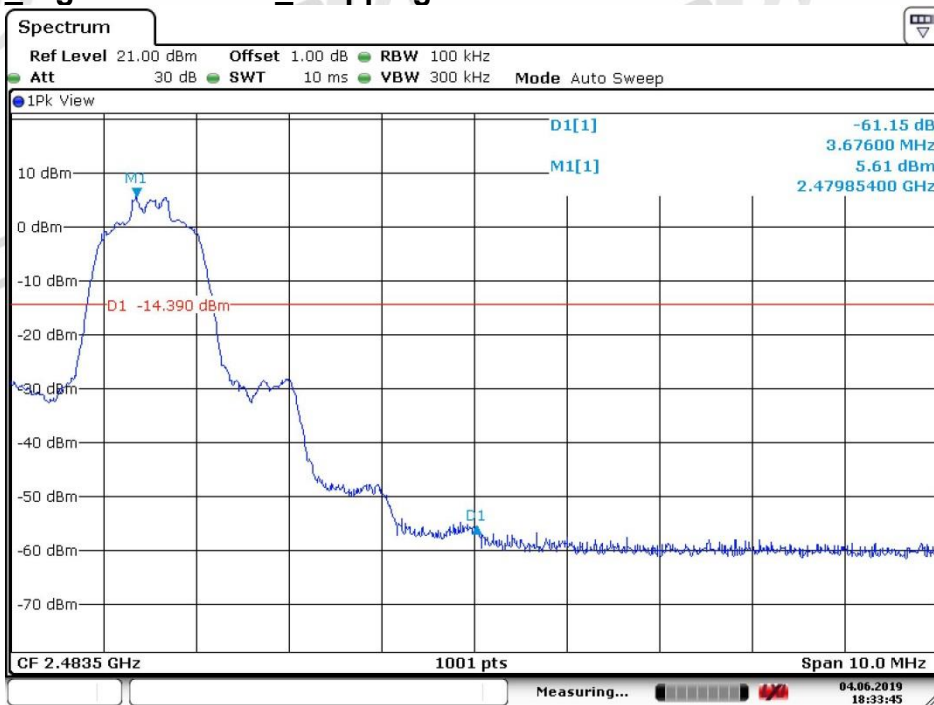
Date: 4.JUN.2019 18:24:14

$\pi/4$ DQPSK_Lowest Channel_ Hopping OFF

Date: 4 JUN. 2019 18:28:29

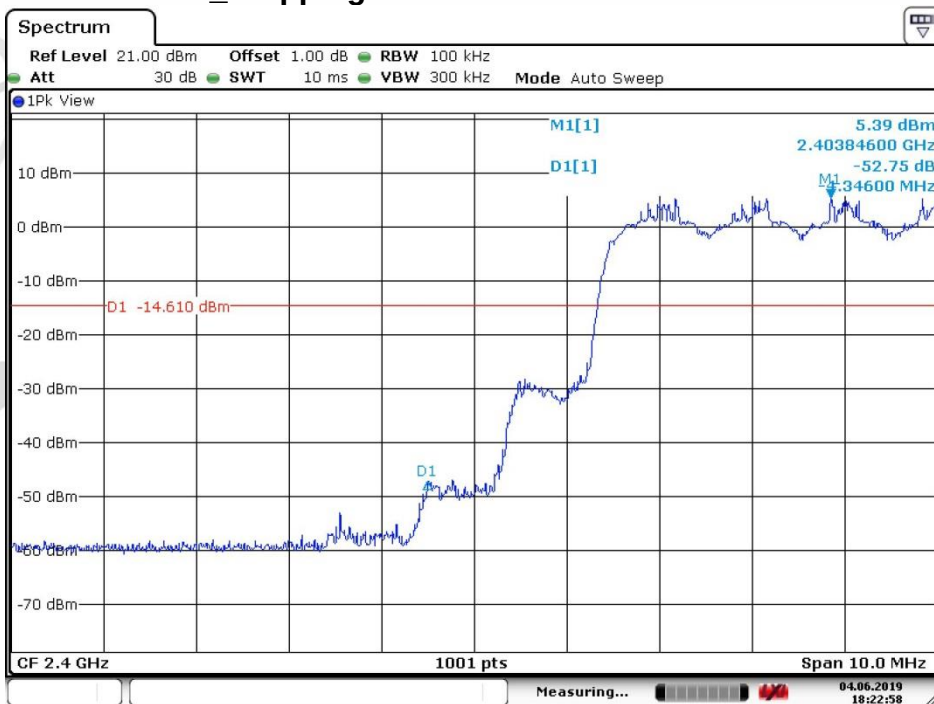
 $\pi/4$ DQPSK_Highest Channel_ Hopping ON

Date: 4 JUN. 2019 18:33:09

$\pi/4$ DQPSK_Highest Channel_Hopping OFF

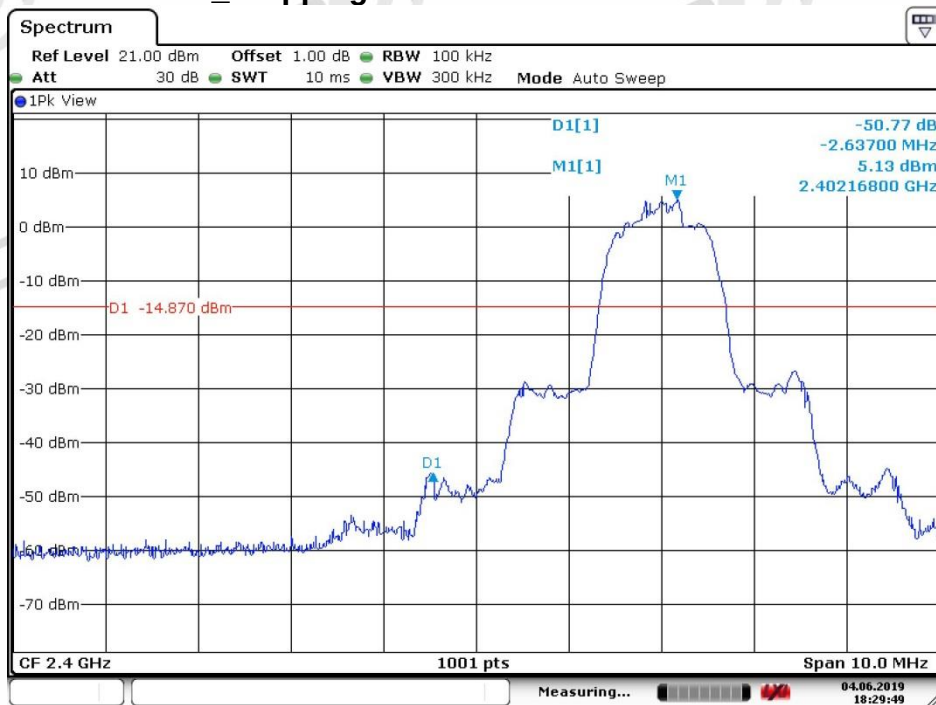
Date: 4 JUN. 2019 18:33:46

8DPSK_Lowest Channel_Hopping ON



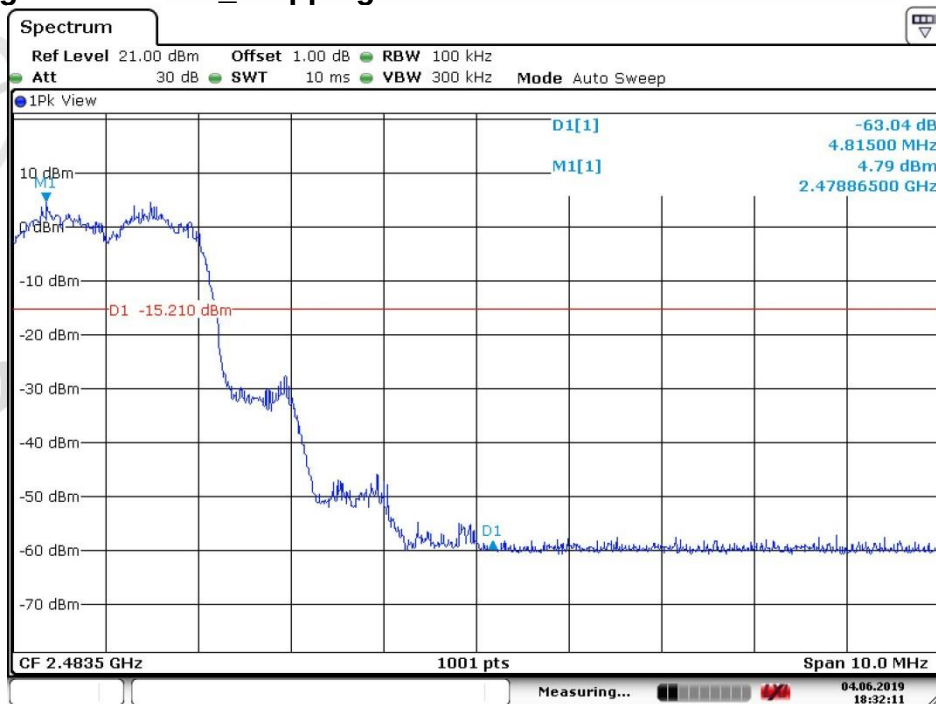
Date: 4 JUN. 2019 18:22:58

8DPSK _Lowest Channel_ Hopping OFF



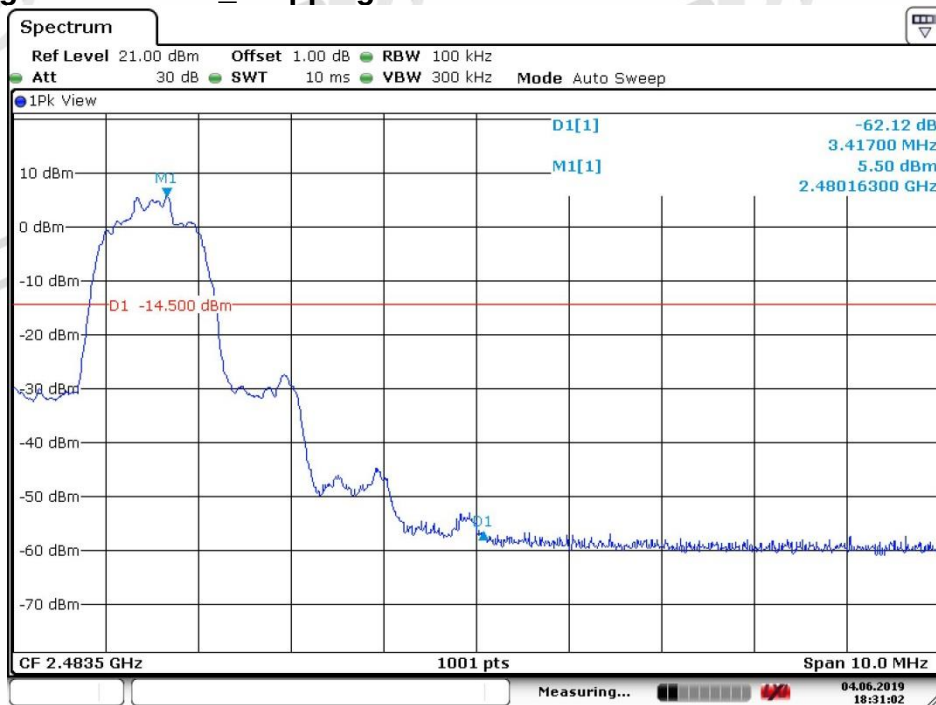
Date: 4 JUN. 2019 18:29:49

8DPSK _Highest Channel_ Hopping ON



Date: 4 JUN. 2019 18:32:11

8DPSK_Highest Channel_Hopping OFF

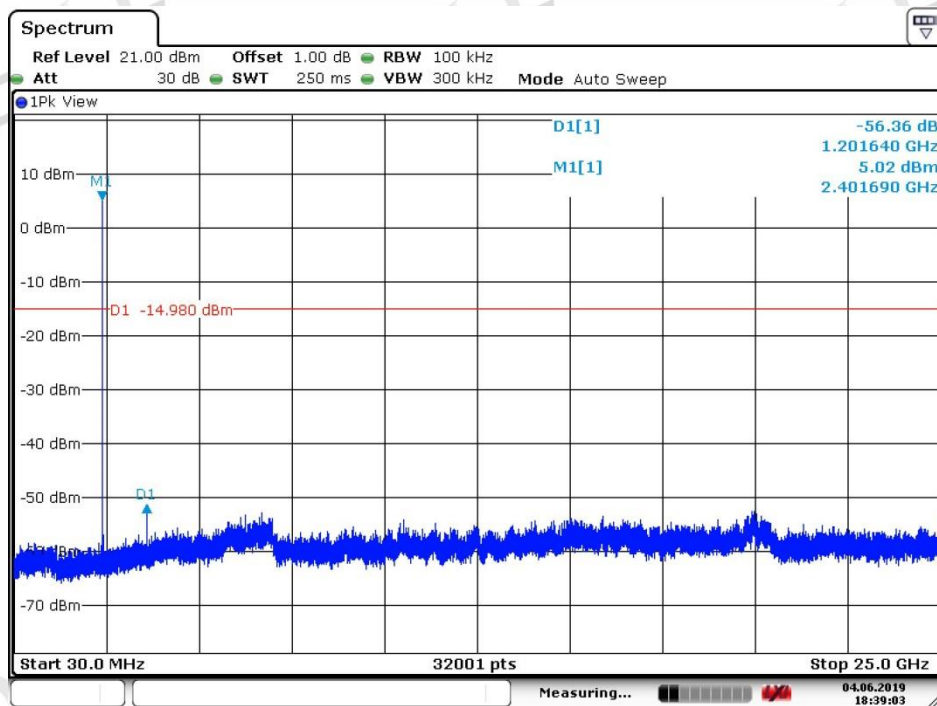


Date: 4.JUN.2019 18:31:02

10. Spurious RF Conducted Emissions

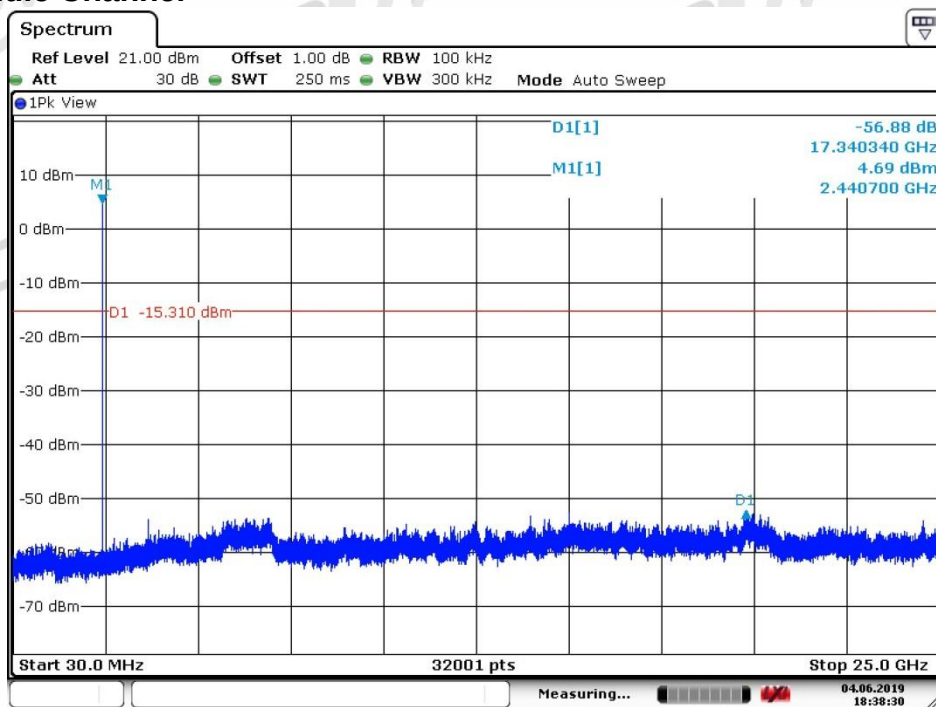
10.1. Test plots

GFSK _Lowest Channel



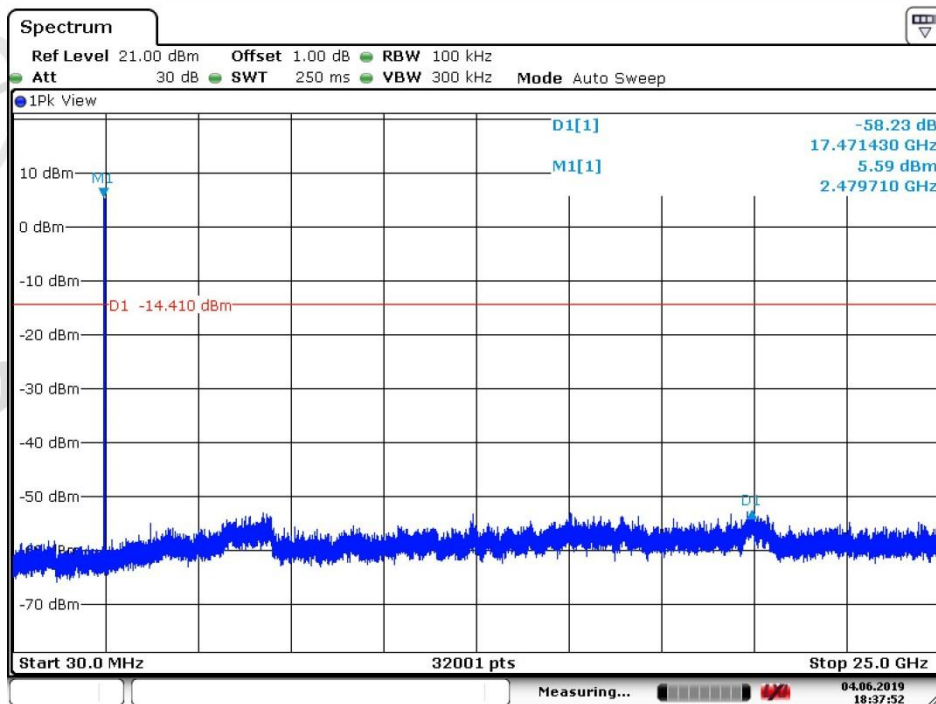
Date: 4 JUN 2019 18:39:04

GFSK_Middle Channel

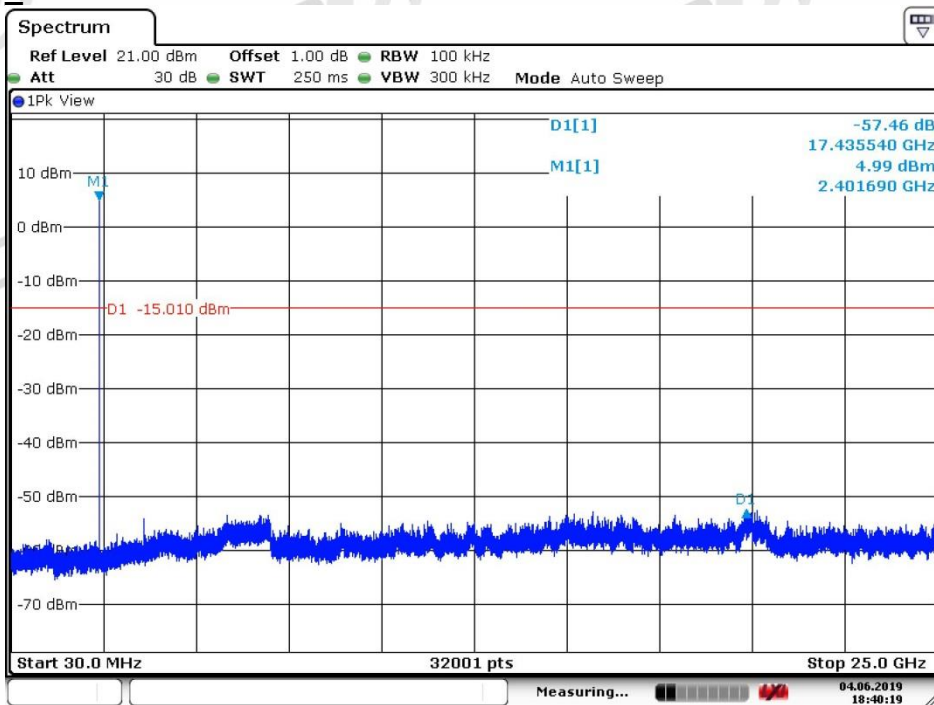


Date: 4.JUN.2019 18:38:30

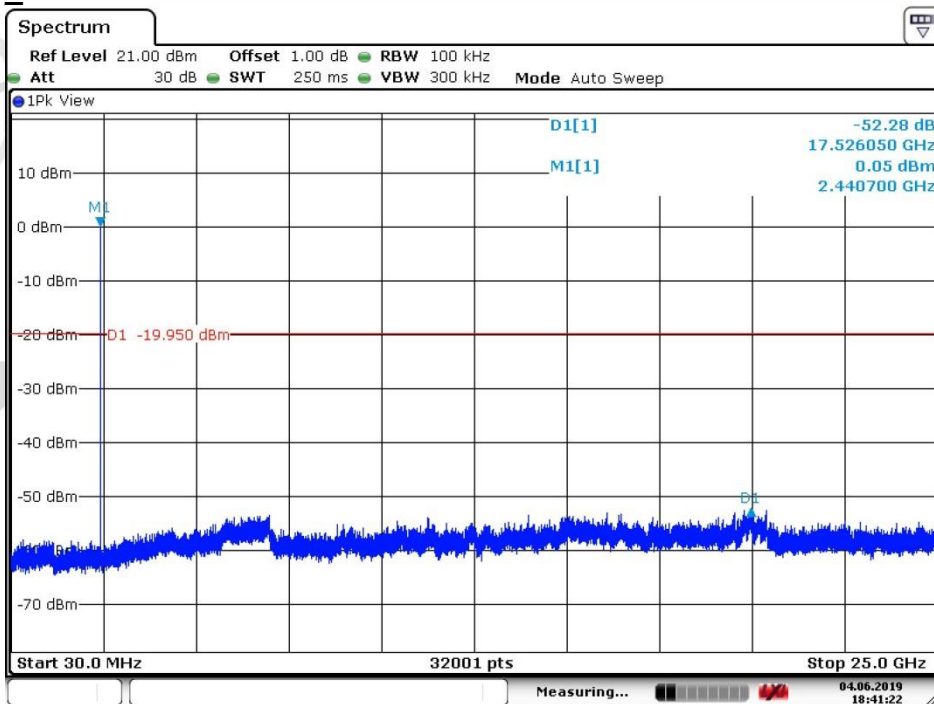
GFSK_Highest Channel



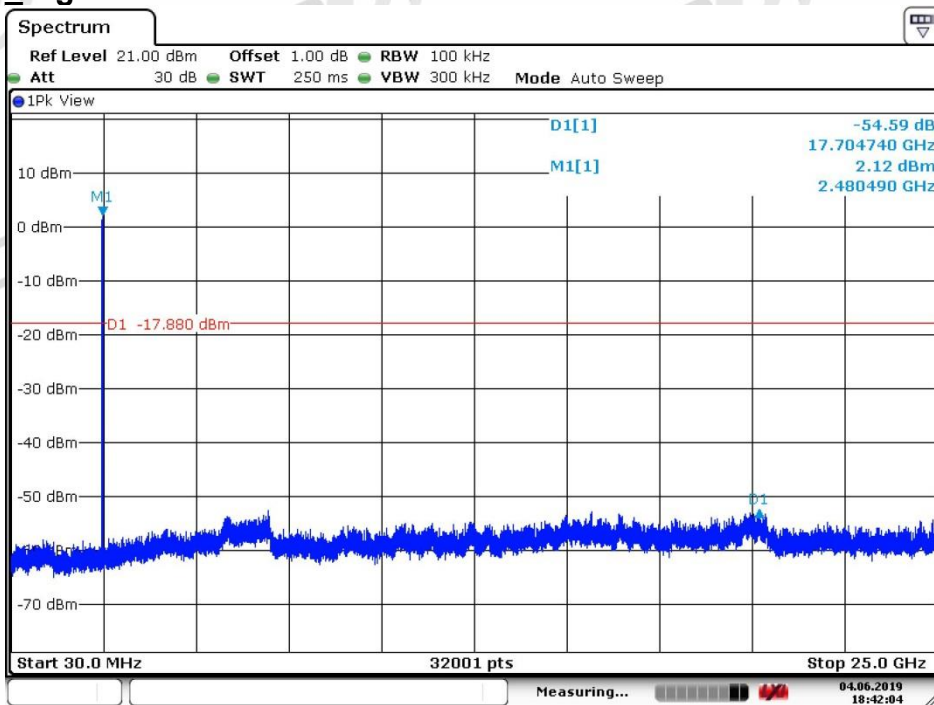
Date: 4.JUN.2019 18:37:52

$\pi/4$ DQPSK Lowest Channel

Date: 4.JUN.2019 18:40:20

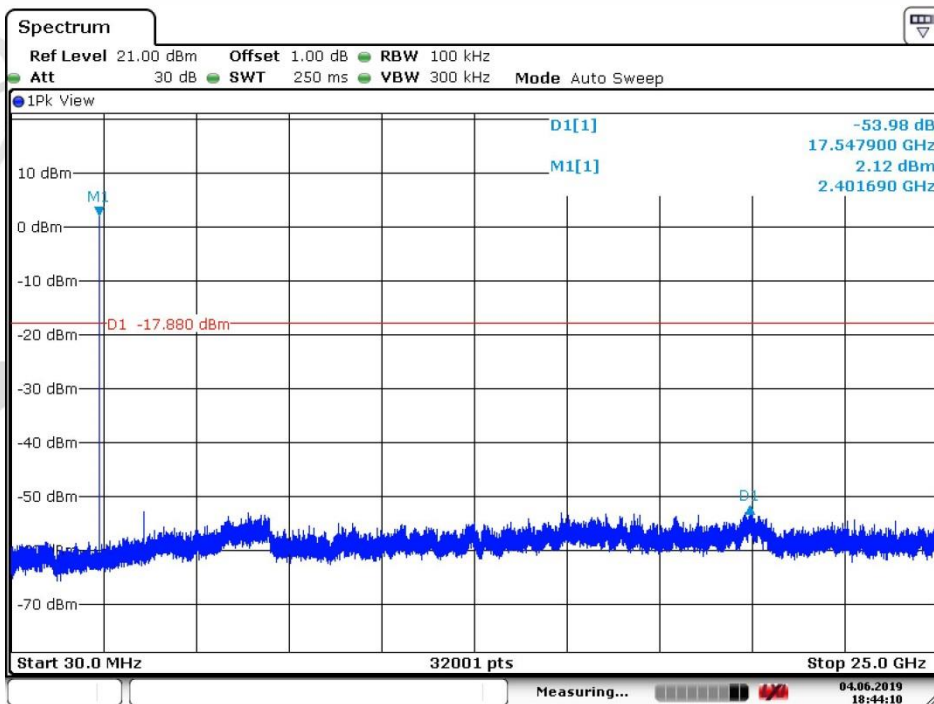
 $\pi/4$ DQPSK Middle Channel

Date: 4.JUN.2019 18:41:23

$\pi/4$ DQPSK_Highest Channel

Date: 4.JUN.2019 18:42:04

8DPSK_Lowest Channel



Date: 4.JUN.2019 18:44:10

8DPSK_Highest Channel



Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

OR-4-106-19 RevA0