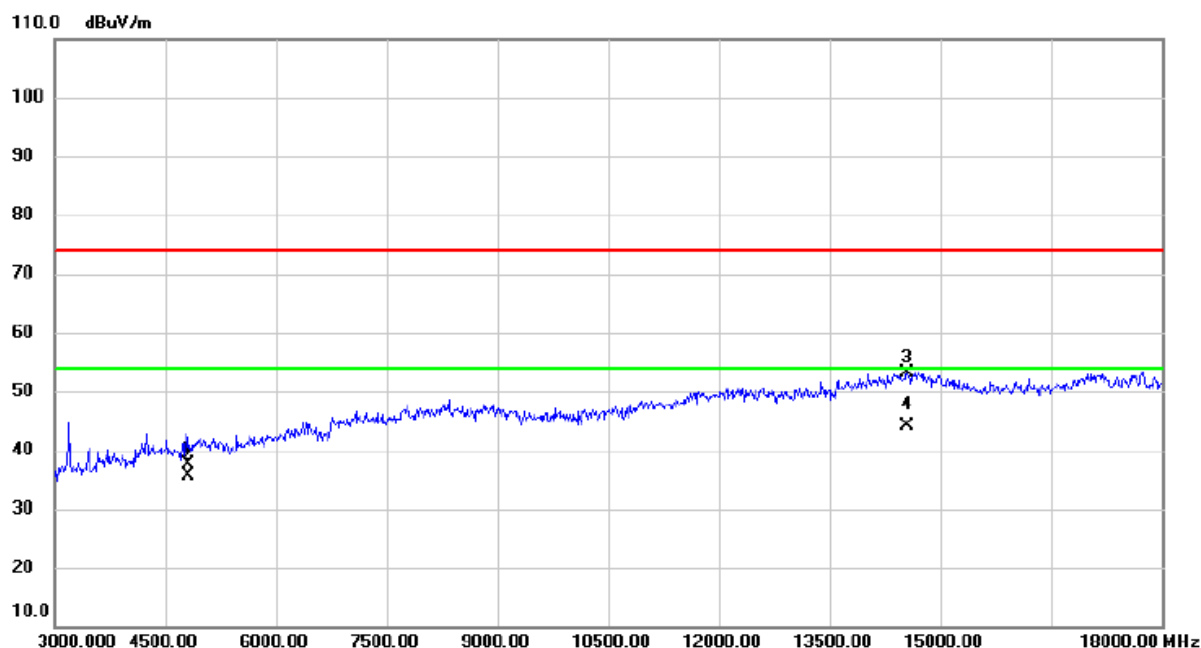


Test Mode	TX 2402 MHz_CH00_2Mbps	Polarization	Vertical
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4804.020	32.00	5.69	37.69	74.00	-36.31	peak	
2		4804.020	29.88	5.69	35.57	54.00	-18.43	AVG	
3		14550.000	38.97	14.13	53.10	74.00	-20.90	peak	
4	*	14550.000	29.91	14.13	44.04	54.00	-9.96	AVG	

REMARKS:

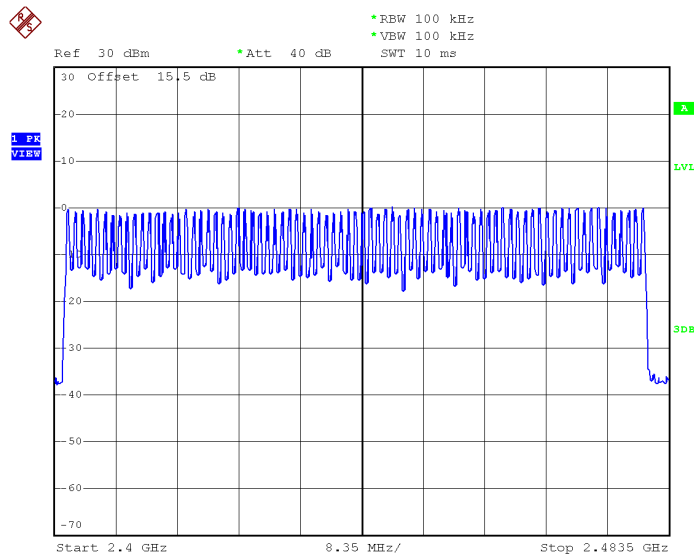
- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - NUMBER OF HOPPING FREQUENCY

Left Earphone

Test Mode:	TX Mode_1Mbps
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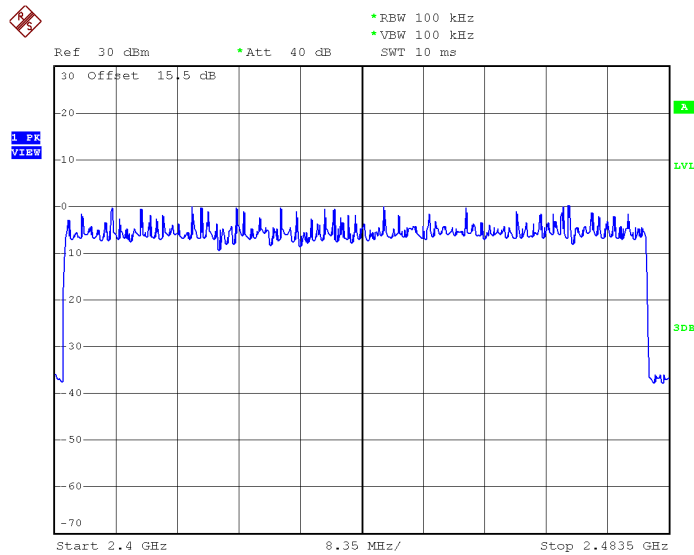
Test Mode	Hopping Mode_1Mbps	Limit	Test Result
Number of Hopping Frequency	79	15	Pass



Date: 20.MAR.2026 21:40:07

Test Mode:	TX Mode_2Mbps
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Test Mode	Hopping Mode_2Mbps	Limit	Test Result
Number of Hopping Frequency	79	15	Pass

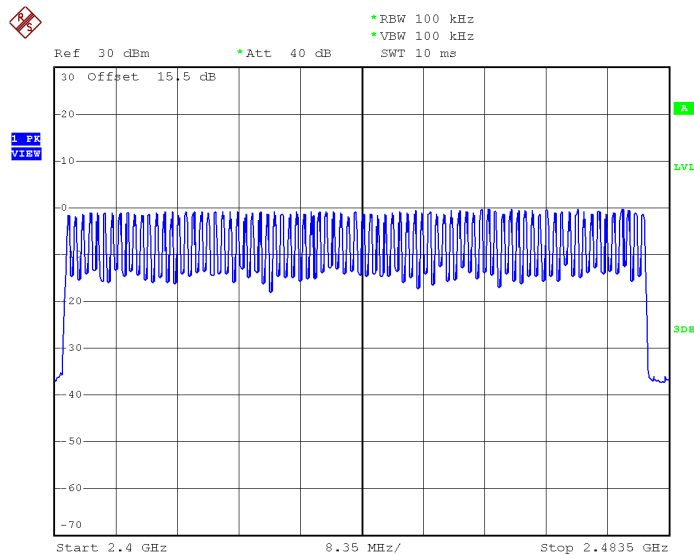


Date: 20.MAR.2026 21:50:36

Right Earphone

Test Mode:	TX Mode_1Mbps
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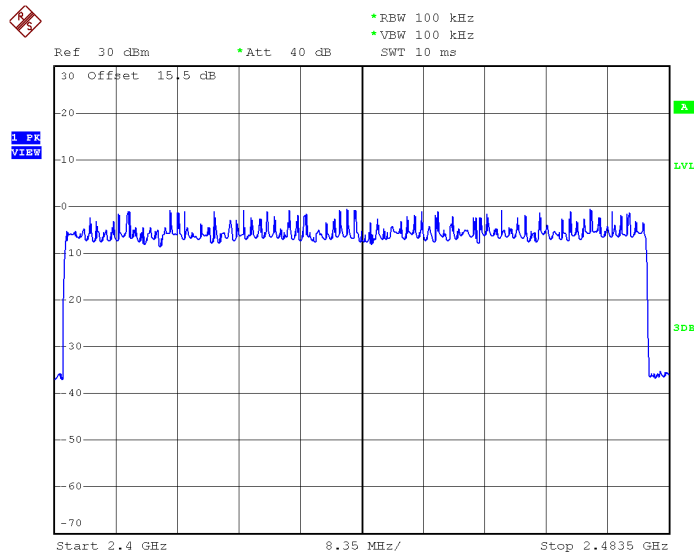
Test Mode	Hopping Mode_1Mbps	Limit	Test Result
Number of Hopping Frequency	79	15	Pass



Date: 20.MAR.2026 23:12:09

Test Mode:	TX Mode_2Mbps
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Test Mode	Hopping Mode_2Mbps	Limit	Test Result
Number of Hopping Frequency	79	15	Pass



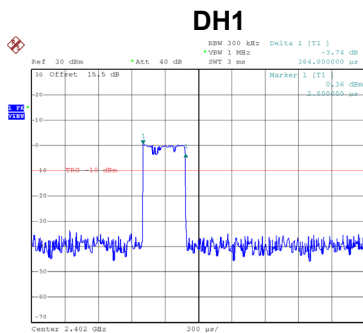
Date: 20.MAR.2026 23:18:02

APPENDIX F - AVERAGE TIME OF OCCUPANCY

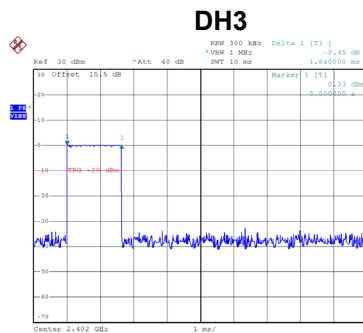
Left Earphone

Test Mode	Hopping Mode_1Mbps
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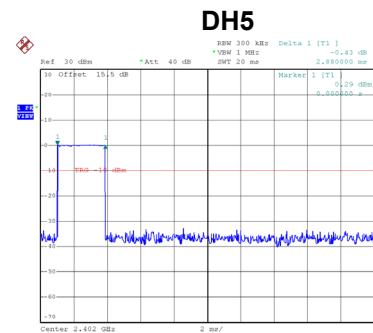
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH1	2402	0.3840	0.1229	0.4000	Pass
DH3	2402	1.6400	0.2624	0.4000	Pass
DH5	2402	2.8800	0.3072	0.4000	Pass



Date: 20.MAR.2026 21:34:53



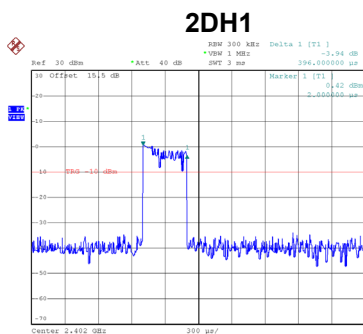
Date: 20.MAR.2026 21:35:59



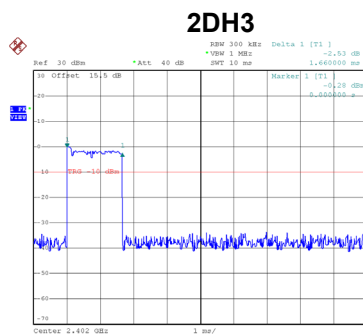
Date: 20.MAR.2026 21:36:36

Test Mode	Hopping Mode_2Mbps
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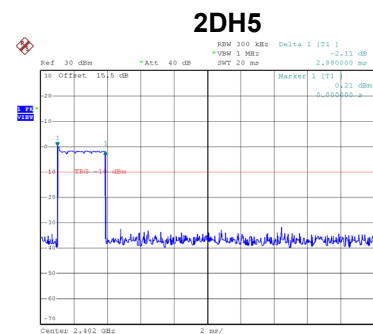
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
2DH1	2402	0.3960	0.1267	0.4000	Pass
2DH3	2402	1.6600	0.2656	0.4000	Pass
2DH5	2402	2.8800	0.3072	0.4000	Pass



Date: 20.MAR.2026 21:35:33



Date: 20.MAR.2026 21:36:19

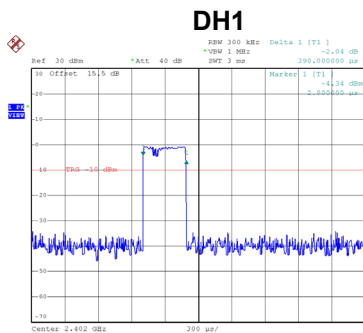


Date: 20.MAR.2026 21:36:53

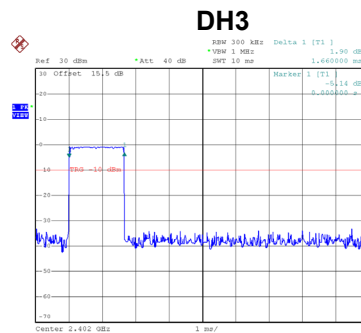
Right Earphone

Test Mode	Hopping Mode_1Mbps
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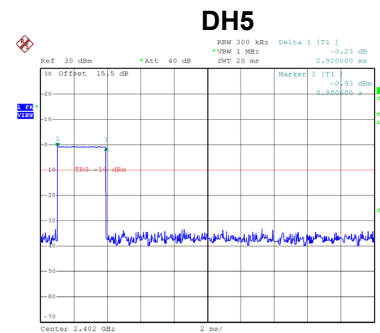
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH1	2402	0.3900	0.1248	0.4000	Pass
DH3	2402	1.6600	0.2656	0.4000	Pass
DH5	2402	2.9200	0.3115	0.4000	Pass



Date: 20_MAR_2026 23:08:34



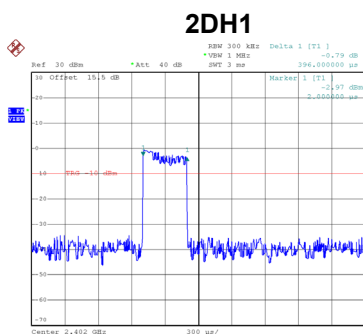
Date: 20_MAR_2026 23:09:13



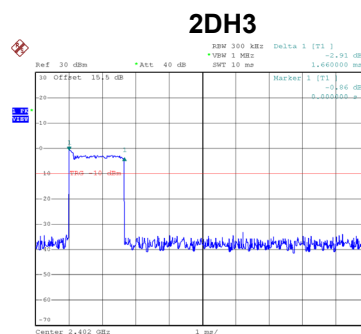
Date: 20_MAR_2026 23:10:47

Test Mode	Hopping Mode_2Mbps
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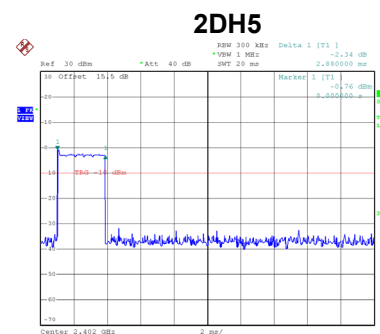
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
2DH1	2402	0.3960	0.1267	0.4000	Pass
2DH3	2402	1.6600	0.2656	0.4000	Pass
2DH5	2402	2.8800	0.3072	0.4000	Pass



Date: 20_MAR_2026 23:08:54



Date: 20_MAR_2026 23:09:34



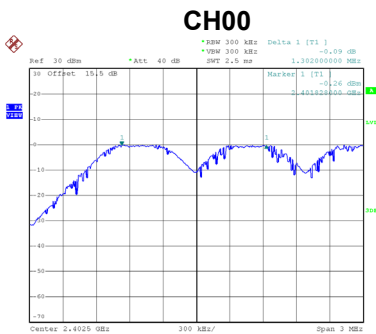
Date: 20_MAR_2026 23:10:16

APPENDIX G - HOPPING CHANNEL SEPARATION

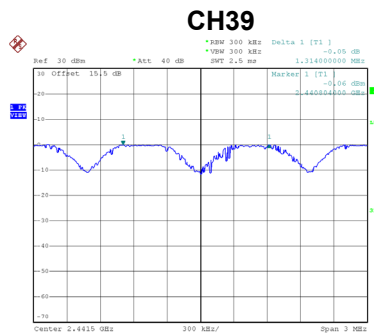
Left Earphone

Test Mode	Hopping Mode_1Mbps
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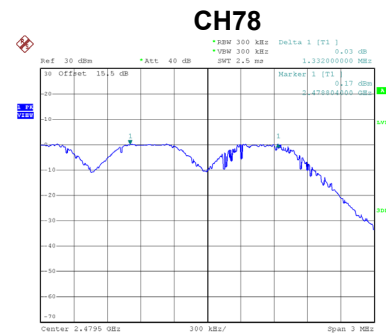
Channel	Frequency (MHz)	Channel Separation (MHz)	2/3 of 20 dB Bandwidth (MHz)	Test Result
00	2402	1.302	0.636	Pass
39	2441	1.314	0.632	Pass
78	2480	1.332	0.632	Pass



Date: 20.MAR.2026 21:39:27



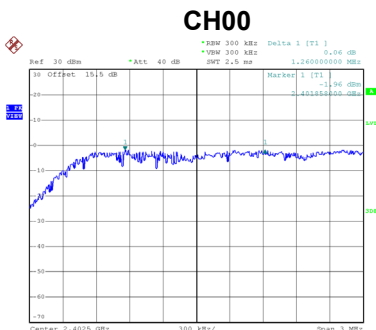
Date: 20.MAR.2026 21:48:48



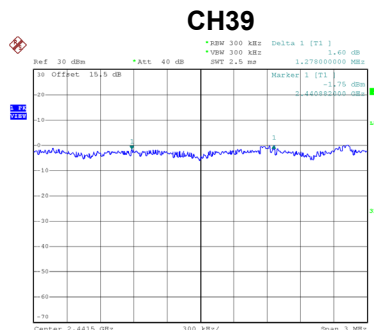
Date: 20.MAR.2026 21:49:04

Test Mode	Hopping Mode_2Mbps
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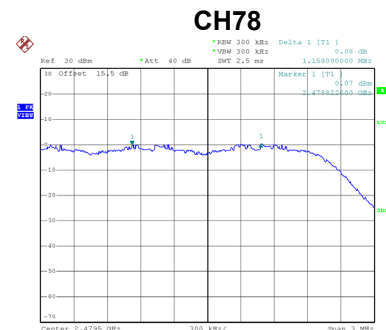
Channel	Frequency (MHz)	Channel Separation (MHz)	2/3 of 20 dB Bandwidth (MHz)	Test Result
00	2402	1.260	0.852	Pass
39	2441	1.278	0.852	Pass
78	2480	1.158	0.856	Pass



Date: 20.MAR.2026 21:49:40



Date: 20.MAR.2026 21:53:43

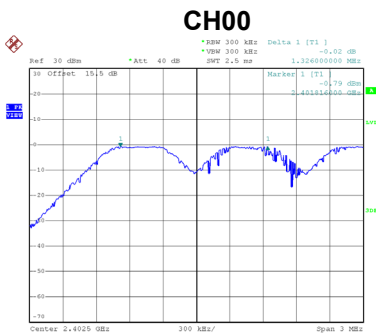


Date: 20.MAR.2026 21:54:35

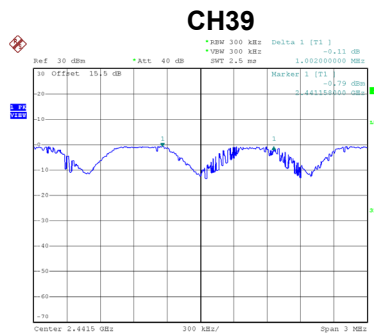
Right Earphone

Test Mode	Hopping Mode_1Mbps
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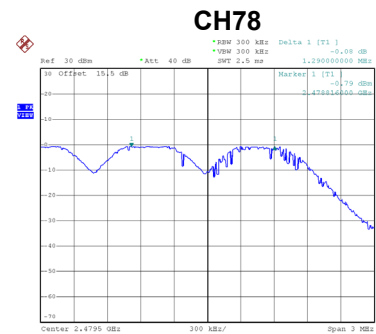
Channel	Frequency (MHz)	Channel Separation (MHz)	2/3 of 20 dB Bandwidth (MHz)	Test Result
00	2402	1.326	0.628	Pass
39	2441	1.002	0.632	Pass
78	2480	1.290	0.632	Pass



Date: 20.MAR.2026 23:11:04



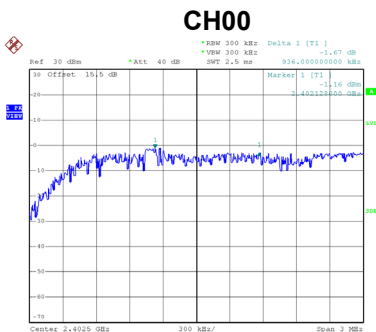
Date: 20.MAR.2026 23:15:13



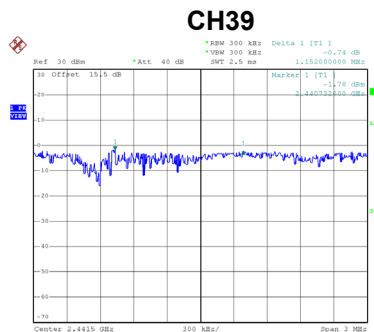
Date: 20.MAR.2026 23:15:30

Test Mode	Hopping Mode_2Mbps
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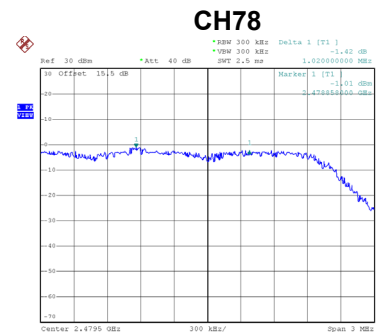
Channel	Frequency (MHz)	Channel Separation (MHz)	2/3 of 20 dB Bandwidth (MHz)	Test Result
00	2402	0.936	0.856	Pass
39	2441	1.152	0.848	Pass
78	2480	1.020	0.856	Pass



Date: 20.MAR.2026 23:16:21



Date: 20.MAR.2026 23:19:34



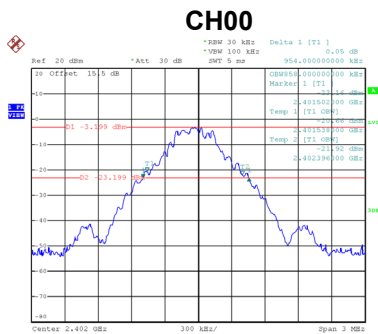
Date: 20.MAR.2026 23:20:24

APPENDIX H - BANDWIDTH

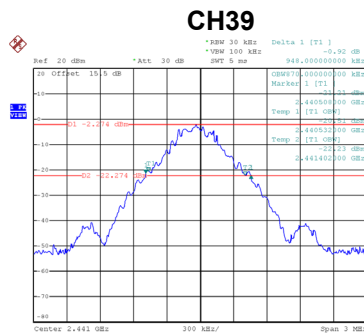
Left Earphone

Test Mode	TX Mode_1Mbps
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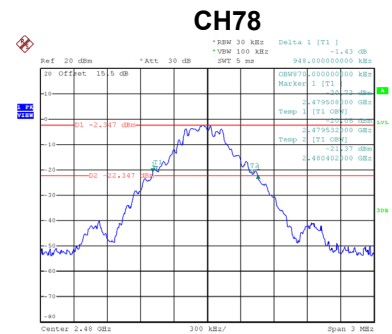
Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
00	2402	0.954	0.858
39	2441	0.948	0.870
78	2480	0.948	0.870



Date: 7.APR.2026 10:43:39



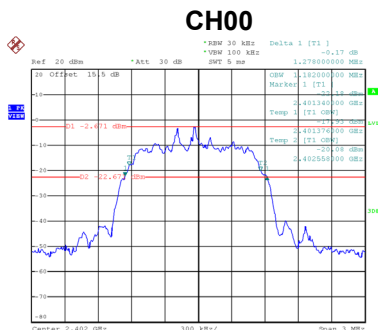
Date: 7.APR.2026 10:44:13



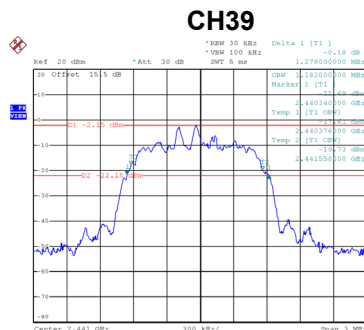
Date: 7.APR.2026 10:44:59

Test Mode	TX Mode_2Mbps
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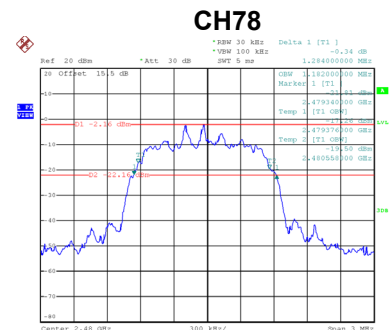
Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
00	2402	1.278	1.182
39	2441	1.278	1.182
78	2480	1.284	1.182



Date: 7.APR.2026 10:45:41



Date: 7.APR.2026 10:46:03

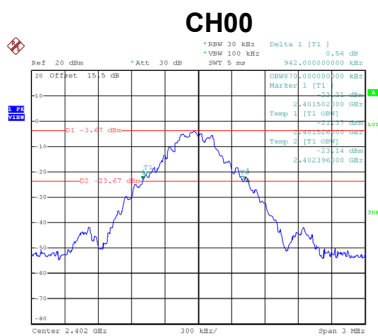


Date: 7.APR.2026 10:46:34

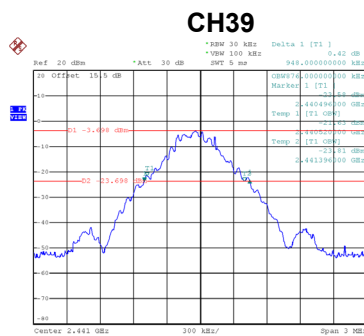
Right Earphone

Test Mode	TX Mode_1Mbps
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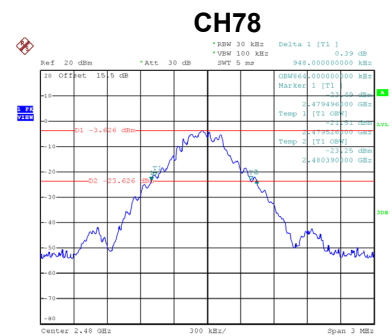
Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
00	2402	0.942	0.870
39	2441	0.948	0.876
78	2480	0.948	0.864



Date: 7.APR.2026 11:01:41



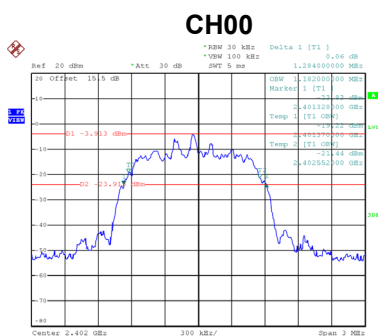
Date: 7.APR.2026 11:03:09



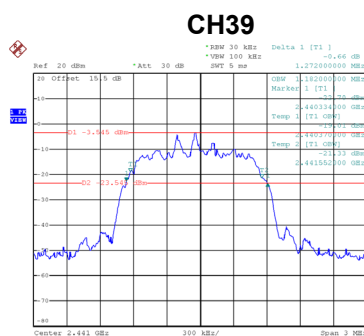
Date: 7.APR.2026 11:05:24

Test Mode	TX Mode_2Mbps
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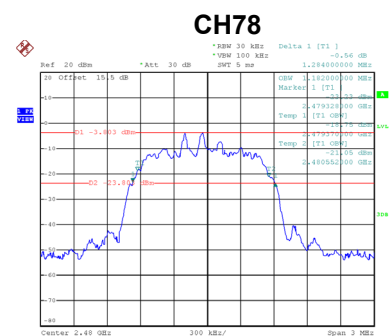
Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
00	2402	1.284	1.182
39	2441	1.272	1.182
78	2480	1.284	1.182



Date: 7.APR.2026 11:08:28



Date: 7.APR.2026 11:10:09



Date: 7.APR.2026 11:11:42

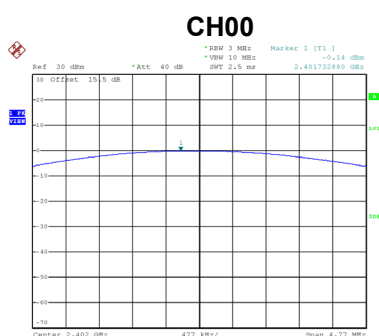
APPENDIX I - MAXIMUM OUTPUT POWER

Left Earphone

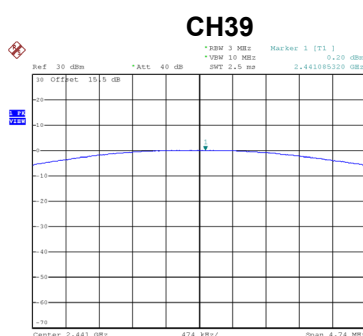
Test Mode	TX Mode_1Mbps
-----------	---------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Test Result
00	2402	-0.14	20.97	0.1250	Pass
39	2441	0.20	20.97	0.1250	Pass
78	2480	0.60	20.97	0.1250	Pass

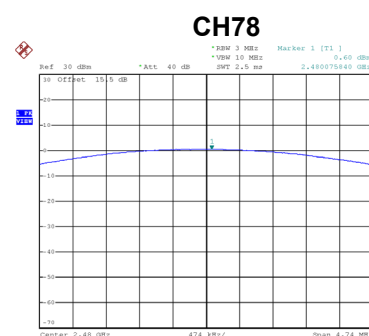
Note: Output power = Measure result + Cable loss



Date: 7.APR.2026 10:43:49



Date: 7.APR.2026 10:44:23

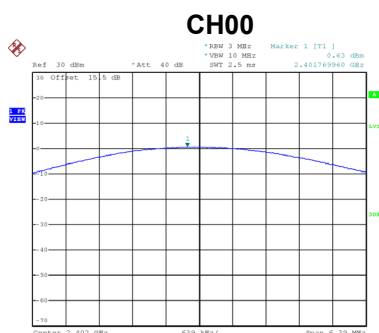


Date: 7.APR.2026 10:45:09

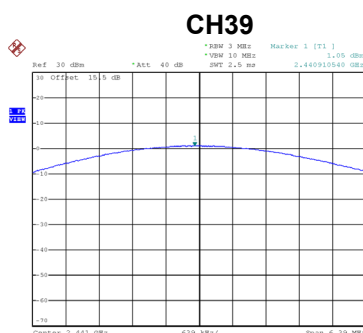
Test Mode	TX Mode_2Mbps
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Test Result
00	2402	0.63	20.97	0.1250	Pass
39	2441	1.05	20.97	0.1250	Pass
78	2480	1.36	20.97	0.1250	Pass

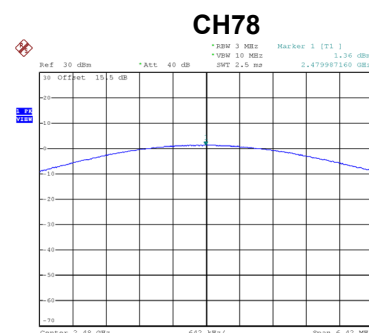
Note: Output power = Measure result + Cable loss



Date: 7.APR.2026 10:45:50



Date: 7.APR.2026 10:48:13



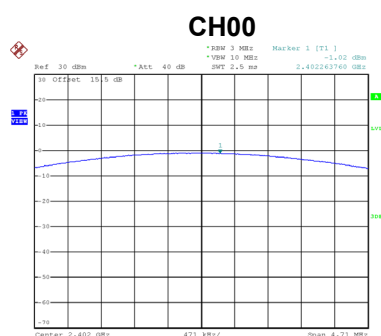
Date: 7.APR.2026 10:48:45

Right Earphone

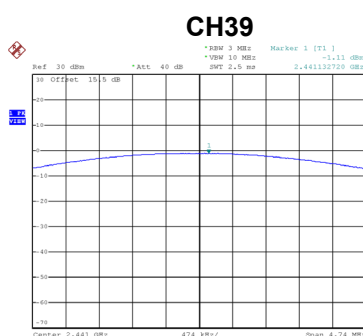
Test Mode	TX Mode_1Mbps
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Test Result
00	2402	-1.02	20.97	0.1250	Pass
39	2441	-1.11	20.97	0.1250	Pass
78	2480	-1.02	20.97	0.1250	Pass

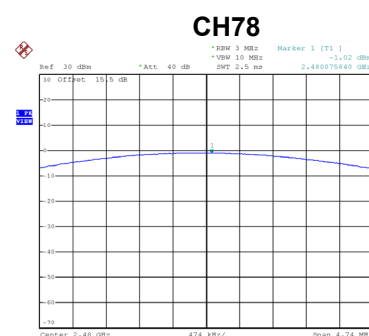
Note: Output power = Measure result + Cable loss



Date: 7.APR.2026 11:01:51



Date: 7.APR.2026 11:03:19

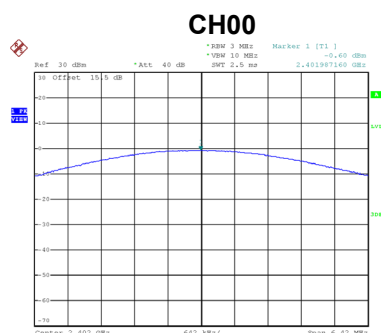


Date: 7.APR.2026 11:05:34

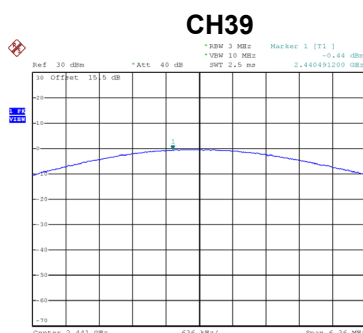
Test Mode	TX Mode_2Mbps
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Test Result
00	2402	-0.60	20.97	0.1250	Pass
39	2441	-0.44	20.97	0.1250	Pass
78	2480	-0.23	20.97	0.1250	Pass

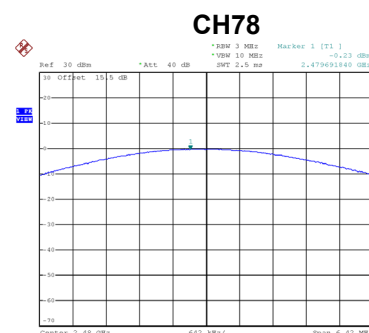
Note: Output power = Measure result + Cable loss



Date: 7.APR.2026 11:08:38



Date: 7.APR.2026 11:10:19



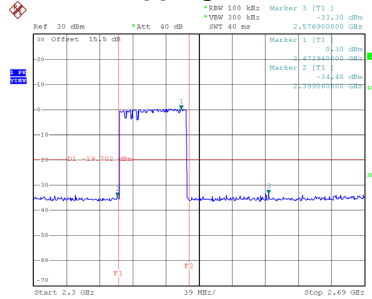
Date: 7.APR.2026 11:11:52

APPENDIX J - CONDUCTED SPURIOUS EMISSION

Left Earphone

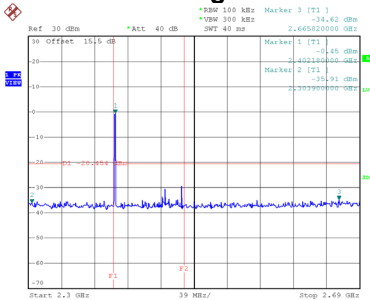
Test Mode TX Mode_1Mbps

Hopping on mode



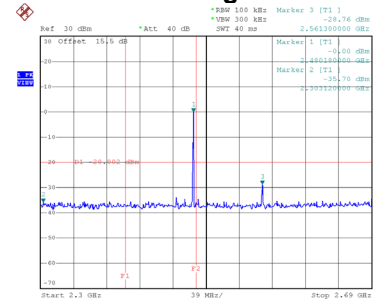
Date: 15.APR.2026 13:55:56

Bandedge-CH00



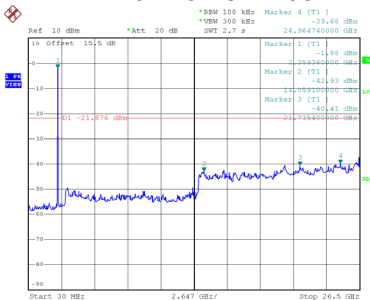
Date: 15.APR.2026 13:35:38

Bandedge-CH78



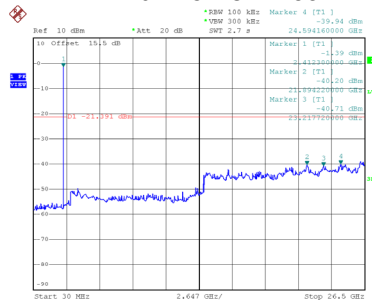
Date: 15.APR.2026 13:42:38

Harmonic-CH00



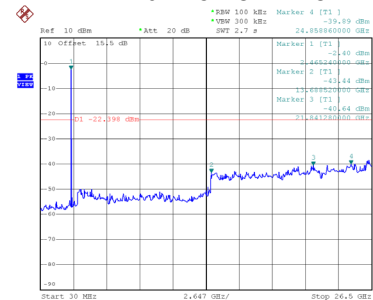
Date: 15.APR.2026 13:37:04

Harmonic-CH39



Date: 15.APR.2026 13:42:00

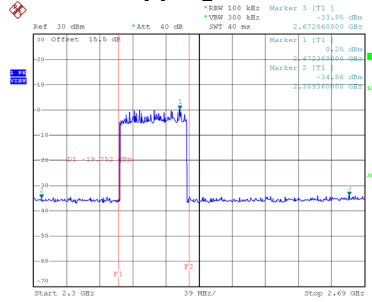
Harmonic-CH78



Date: 15.APR.2026 13:42:50

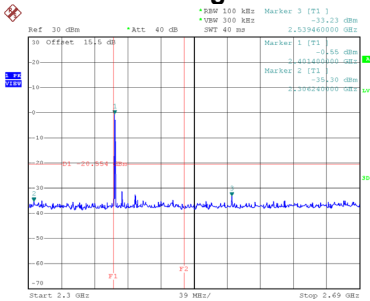
Test Mode TX Mode_2Mbps

Hopping on mode



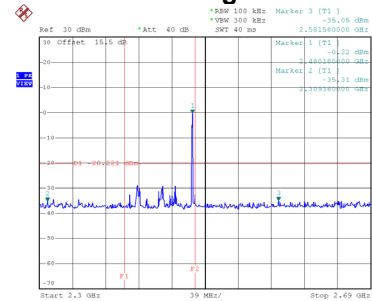
Date: 15.APR.2026 14:00:54

Bandedge-CH00



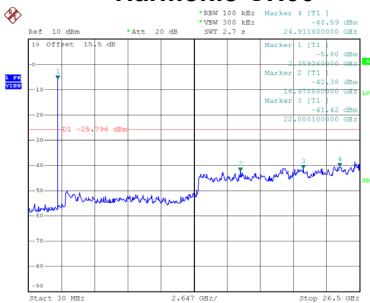
Date: 15.APR.2026 13:43:21

Bandedge-CH78



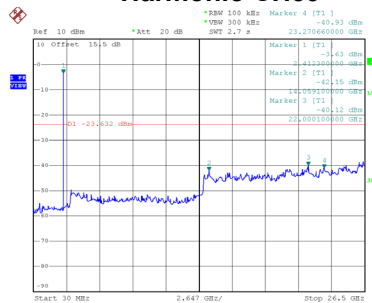
Date: 15.APR.2026 13:47:40

Harmonic-CH00



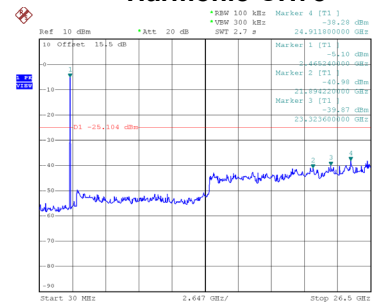
Date: 15.APR.2026 13:43:33

Harmonic-CH39



Date: 15.APR.2026 13:47:18

Harmonic-CH78

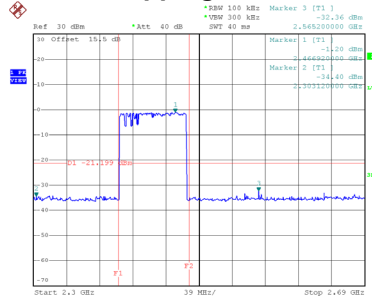


Date: 15.APR.2026 13:47:52

Right Earphone

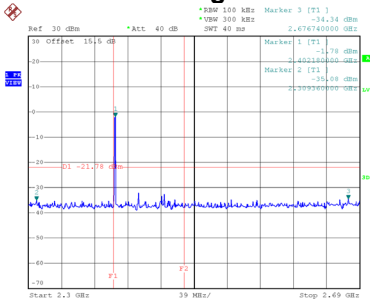
Test Mode TX Mode_1Mbps

Hopping on mode



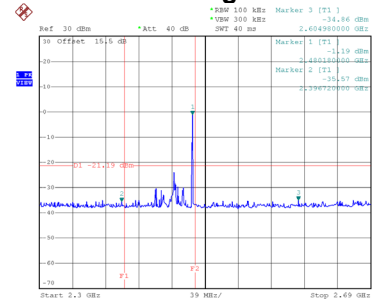
Date: 15.APR.2026 15:11:27

Bandedge-CH00



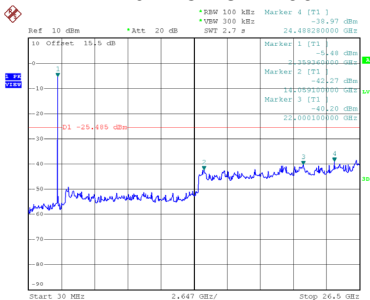
Date: 15.APR.2026 14:52:17

Bandedge-CH78



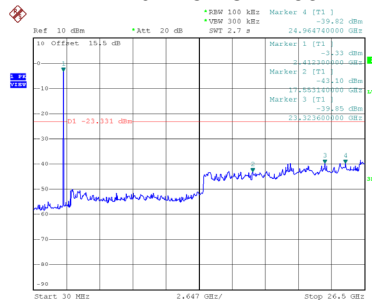
Date: 15.APR.2026 14:53:49

Harmonic-CH00



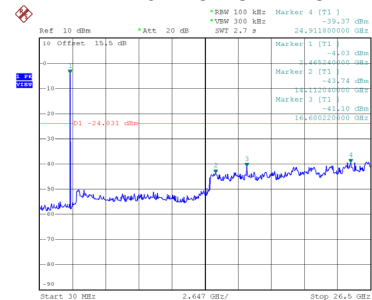
Date: 15.APR.2026 14:52:30

Harmonic-CH39



Date: 15.APR.2026 14:53:07

Harmonic-CH78



Date: 15.APR.2026 14:54:02

Hopping on mode



APPENDIX K - DECLARATION FOR BLUETOOTH DEVICE

1. Output power and channel separation of a Bluetooth device in the different operating modes:

The different operating modes (data-mode, acquisition-mode) of a Bluetooth device has no influence on the output power and the channel spacing. There is only one transmitter which is driven by identical input parameters concerning these two parameters.

Only a different hopping sequence will be used. For this reason the check of these RF parameters in one op-mode is sufficient.

2. Frequency range of a Bluetooth device:

Hereby we declare that the maximum frequency of this device is: 2402 - 2480MHz. This is according to the Bluetooth Core Specification (+ critical errata) for devices which will be operated in the USA.

This was checked during the Bluetooth Qualification tests (Test Case: TRM/CA/04-E). Other frequency ranges (e.g. for Spain, France, Japan) which are allowed according the Core Specification are not supported by this device.

3. Co-ordination of the hopping sequence in data mode to avoid simultaneous occupancy by multiple transmitters:

Bluetooth units which want to communicate with other units must be organised in a structure called piconet. This piconet consist of max. 8 Bluetooth units. One unit is the master the other seven are the slaves. The master co-ordinates frequency occupation in this piconet for all units. As the master hop sequence is derived from its BD address which is unique for each Bluetooth device, additional masters intending to establish new piconets will always use different hop sequences.

4. Example of a hopping sequence in data mode:

Example of a 79 hopping sequence in data mode:

40, 21, 44, 23, 42, 53, 46, 55, 48, 33, 52, 35, 50, 65, 54, 67, 56, 37, 60, 39, 58, 69, 62, 71, 64, 25, 68, 27, 66, 57, 70, 59, 72, 29, 76, 31, 74, 61, 78, 63, 01, 41, 05, 43, 03, 73, 07, 75, 09, 45, 13, 47, 11, 77, 15, 00, 64, 49, 66, 53, 68, 02, 70, 06, 01, 51, 03, 55, 05, 04

5. Equally average use of frequencies in data mode and behaviour for short transmissions:

The generation of the hopping sequence in connection mode depends essentially on two input values:

- a) LAP/UAP of the master of the connection.
- b) Internal master clock.

The LAP (lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP (upper address part) are the 24 MSB's of the 48 BD_ADDRESS.

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For synchronisation with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5 μ s. The clock has a cycle of about one day (23h30). In most case it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire.

LAP (24 bits), 4 LSB's (4 bits) (Input 1) and the 27 MSB's of the clock (Input 2) are used. With this input values different mathematical procedures (permutations, additions, XOR- operations) are performed to generate the sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behaviour:

The first connection between the two devices is established, a hopping sequence was generated. For transmitting the wanted data the complete hopping sequence was not used. The connection ended.

The second connection will be established. A new hopping sequence is generated. Due to the fact that the Bluetooth clock has a different value, because the period between the two transmission is longer (and it cannot be shorter) than the minimum resolution of the clock (312.5 μ s). The hopping sequence will always differ from the first one.

6. Receiver input bandwidth and behaviour for repeated single or multiple packets:

The input bandwidth of the receiver is 1 MHz. In every connection one Bluetooth device is the master and the other one is the slave. The master determines the hopping sequence (see chapter 5). The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master.

Additionally the type of connection (e.g. single or multislots packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

End of Test Report