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| **Title\*:** | Information receiver blocking values for White Space Standard |
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| from **Source**\*: | Ofcom (U.K.) |
| Contact: | Andy Gowans  |
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| input for **Committee**\***:** | BRAN |
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| Contribution **For\*:** | Decision |  |  |
|  | Discussion | **X** |  |
|  | Information |  |  |
|  |  |
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|  |  |
| Meeting & Allocation: | Draft ETSI EN 301 598  |
| Relevant WI(s), or deliverable(s): |   |
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**ABSTRACT:***This document and Ofcom other documents provides relevant information for the discussion on the appropriate values for receiver blocking performance in EN301 598.*

1. **INTRODUCTION**

Ofcom believe that the receiver blocking values in current draft versions of some of the ENs being prepared by ETSI BRAN are not appropriate to ensure receivers have sufficient resilience to signals from adjacent systems. Most of the current values were taken from the draft of EN 300 328 compiled by TG11. These values are currently being reviewed and updated by TG11 for the subsequent version of EN 300 328. In our other paper we have included the current discussions within TG11 for information and reference purposes. We believe the final values used for each of the ENs should be based on a general principle that they should be fit for purpose but also be finalised after taking cognisance of, on a case by case basis, the typical interference scenarios for the systems and bands covered by the EN.

This document sets out some information collected from White Space Device vendors for discussion and consideration for EN 301 598. BRAN is requested to take note and discuss the information set out below and to commit to bringing receiver characteristics in-line with the spirit of the analysis set out in our other inputs.

1. **Proposed values for discussion**

Ofcom have collected some information from WSD vendors that were happy to provide their receiver blocking performance values to Ofcom in the equipment that is being used in the white space bands in the UK today. We are presenting this information in an anonymous way and are not supporting or proposing any of these values as presented as a solution. See also the other input document on our generic views on receiver blocking and below for the values and the relevant supplementary information.

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| **Manufacturer** | **Blocking** |
| **Modulated** | **CW** |
| **Adjacent channel**  | **Other channels** | **Adjacent band** |  |
| Vendor A | ‑45dBm/6MHz(‑46.25dBm/8MHz) | ‑40dBm/6MHz(‑41.25dBm/8MHz) | 30-40dB (50-60MHz from UHF band edge) | -30dBm to ‑24/‑25dBm (+/-6MHz to +/-12MHz from centre) |
| Vendor B | -42dBm/8MHz | -30dBm/8MHz | ‑25dBm/‑15dBm(DTV/LTE) | - |
| Vendor C | 40dB - 50dB |
| Vendor D | 50dB (adjacent) |
| Vendor E | No values but says that their equipment complies with FCC part 15 subpart H |
| Sony | **See BRAN(16)000132** |

Unfortunately, as you can see the information provided was not all presented in a similar way, some is incomplete and with some others there will have to be some assumptions made regarding the wanted signals.