

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030121\
 Data File : VL036418.D
 Acq On : 1 Mar 2021 17:14
 Operator : SY/AP
 Sample : M1458-13 0.45LOD
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2021

Manual Integrations
 APPROVED

MMDadoda
 3/2/2021 3:30:18 PM

Quant Time: Mar 02 06:26:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1724852	10.00	ppbv	0.04
33) 1,4-Difluorobenzene	7.20	114	3737508	10.00	ppbv	0.04
55) Chlorobenzene-d5	12.11	117	3386991	10.00	ppbv	0.05

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2732930	9.81	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.06	85	148452	0.577	ppbv	97
3) Chlorodifluoromethane	3.00	51	107971	0.504	ppbv	100
4) Chloromethane	3.15	50	52796	0.510	ppbv	95
5) Vinyl Chloride	3.27	62	43806	0.454	ppbv	95
6) Bromomethane	3.49	94	29634m	0.517	ppbv	
7) Chloroethane	3.57	64	17284m	0.505	ppbv	
8) Dichlorotetrafluoroethane	3.20	85	122237	0.522	ppbv	98
9) Propene	3.02	41	43637	0.546	ppbv	97
10) Heptane	8.14	43	89474	0.380	ppbv	93
11) Trichlorofluoromethane	3.96	101	128124	0.508	ppbv	86
12) 1,1,2-Trichlorotrifluoroet	4.50	101	80112	0.513	ppbv	95
13) Ethanol	3.63	45	18075m	1.204	ppbv	
14) Bromoethene	3.75	108	28789m	0.441	ppbv	
15) Acetone	3.87	43	118621m	0.563	ppbv	
16) 1,3-Butadiene	3.34	39	39642	0.393	ppbv	97
17) tert-Butyl alcohol	4.32	59	75828m	0.463	ppbv	
18) 1,1-Dichloroethene	4.30	96	31117	0.439	ppbv #	77
19) Isopropyl Alcohol	4.00	45	59028m	0.505	ppbv	
20) Methylene Chloride	4.36	84	38006m	0.559	ppbv	
21) Allyl Chloride	4.43	41	44965	0.383	ppbv	93
22) trans-1,2-Dichloroethene	4.90	96	31620m	0.491	ppbv	
23) Vinyl Acetate	5.10	43	88632m	0.358	ppbv	
24) 1,1-Dichloroethane	5.02	63	95178m	0.519	ppbv	
25) Ethyl Acetate	5.71	43	151677	0.373	ppbv #	93
26) Hexane	5.70	57	65399	0.391	ppbv #	81
27) Carbon Disulfide	4.57	76	59198	0.385	ppbv	97
28) Methyl tert-Butyl Ether	5.07	73	82277	0.377	ppbv	96
29) Chloroform	5.77	83	132163m	0.491	ppbv	
30) Cyclohexane	7.16	84	56838m	0.409	ppbv	
31) cis-1,2-Dichloroethene	5.56	61	52581	0.318	ppbv #	93
32) 1,1,1-Trichloroethane	6.53	97	111857	0.444	ppbv	94
34) 2-Butanone	5.27	43	87719	0.353	ppbv	93
35) Carbon Tetrachloride	7.04	117	112250	0.448	ppbv #	83
36) Benzene	6.91	78	130141	0.410	ppbv	93
37) 1,2-Dichloroethane	6.32	62	90418	0.461	ppbv	98
38) Trichloroethene	7.86	130	47458	0.417	ppbv #	87
39) 1,2-Dichloropropane	7.64	63	62086	0.481	ppbv #	86
40) 1,4-Dioxane	7.89	88	19581m	0.438	ppbv	
41) Tetrahydrofuran	6.09	42	41498m	0.299	ppbv	
42) Bromodichloromethane	7.81	83	117879	0.448	ppbv	98
43) Methyl Methacrylate	8.04	69	39658	0.296	ppbv #	78

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44) 2,2,4-Trimethylpentane	7.89	57	256174	0.444	ppbv	94
45) t-1,3-Dichloropropene	9.30	75	40005m	0.310	ppbv	
46) cis-1,3-Dichloropropene	8.72	75	49026	0.299	ppbv	89
47) 1,1,2-Trichloroethane	9.49	97	59248	0.449	ppbv	90
48) Dibromochloromethane	10.33	129	81628m	0.414	ppbv	
49) Bromoform	13.06	173	65060m	0.409	ppbv	
50) 4-Methyl-2-Pentanone	8.78	43	140231m	0.380	ppbv	
51) 2-Hexanone	10.18	43	89346m	0.319	ppbv	
52) Tetrachloroethene	11.25	164	47340m	0.407	ppbv	
53) Toluene	9.83	91	119409	0.347	ppbv	100
54) 1,2-Dibromoethane	10.64	107	79508	0.417	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.15	131	78016	0.501	ppbv #	1
57) Chlorobenzene	12.17	112	132634m	0.507	ppbv	
58) Ethyl Benzene	12.74	91	167902	0.362	ppbv	93
59) m/p-Xylene	13.01	91	337597m	0.829	ppbv	
60) o-Xylene	13.72	91	172794	0.444	ppbv	98
61) Styrene	13.55	104	68787	0.285	ppbv	94
62) Isopropylbenzene	14.69	105	261219	0.447	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	150736m	0.490	ppbv	
64) n-propylbenzene	15.58	120	57359m	0.399	ppbv	
65) tert-Butylbenzene	16.77	119	208076	0.417	ppbv	89
66) Benzyl Chloride	17.03	91	46042m	0.339	ppbv	
67) sec-Butylbenzene	17.32	105	294125	0.408	ppbv	97
69) p-Isopropyltoluene	17.69	119	211128	0.379	ppbv	95
70) n-Butylbenzene	18.58	91	226763	0.380	ppbv	94
71) 2-Chlorotoluene	15.48	91	178880	0.400	ppbv	99
72) 4-Ethyltoluene	15.87	105	149644	0.345	ppbv #	93
73) 1,3,5-Trimethylbenzene	16.02	105	156194m	0.372	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	182508m	0.425	ppbv	
75) 1,3-Dichlorobenzene	17.02	146	108199	0.465	ppbv	91
76) 1,4-Dichlorobenzene	17.17	146	108644m	0.449	ppbv	
77) 1,2-Dichlorobenzene	17.85	146	104000m	0.450	ppbv	
78) Hexachloro-1,3-Butadiene	23.41	225	92137m	0.488	ppbv	
79) Naphthalene	22.24	128	46401m	0.182	ppbv	
80) Naphthalene,2-methyl-	25.05	142	2488	0.053	ppbv #	32
81) 1,2,4-Trichlorobenzene	21.97	180	42641m	0.275	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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