

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080621\
 Data File : VL037341.D
 Acq On : 6 Aug 2021 11:56
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 8/10/2021 6:09:20 PM

Quant Time: Aug 06 16:02:08 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 06
 QLast Update : Fri Aug 06 15:47:06 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	926017	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3224746	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2882769	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.39	95	2000998	9.93	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	115432	0.560	ppbv	97
3) Chlorodifluoromethane	2.98	51	94504	0.491	ppbv	97
4) Chloromethane	3.13	50	32717	0.480	ppbv #	86
5) Vinyl Chloride	3.25	62	33975	0.476	ppbv	96
6) Bromomethane	3.47	94	17985	0.410	ppbv #	70
7) Chloroethane	3.55	64	13534m	0.530	ppbv	
8) Dichlorotetrafluoroethane	3.18	85	91909	0.497	ppbv	98
9) Propene	3.00	41	35826m	0.522	ppbv	
10) Heptane	8.11	43	70625	0.439	ppbv	97
11) Trichlorofluoromethane	3.94	101	88000	0.489	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.47	101	67890m	0.520	ppbv	
13) Ethanol	3.63	45	7931m	0.765	ppbv	
14) Bromoethene	3.73	108	28037m	0.486	ppbv	
15) Acetone	3.87	43	59227m	0.580	ppbv	
16) 1,3-Butadiene	3.32	39	34538m	0.523	ppbv	
17) tert-Butyl alcohol	4.33	59	53475m	0.521	ppbv	
18) 1,1-Dichloroethene	4.28	96	27585	0.464	ppbv	84
19) Isopropyl Alcohol	4.00	45	29277m	0.518	ppbv	
20) Methylene Chloride	4.33	84	52308	0.619	ppbv #	91
21) Allyl Chloride	4.40	41	43558m	0.528	ppbv	
22) trans-1,2-Dichloroethene	4.88	96	26799	0.490	ppbv	84
23) Vinyl Acetate	5.08	43	66498	0.434	ppbv #	95
24) 1,1-Dichloroethane	5.00	63	60529	0.464	ppbv #	96
25) Ethyl Acetate	5.68	43	125522m	0.475	ppbv	
26) Hexane	5.67	57	69693	0.472	ppbv	86
27) Carbon Disulfide	4.54	76	51707m	0.424	ppbv	
28) Methyl tert-Butyl Ether	5.04	73	73215m	0.474	ppbv	
29) Chloroform	5.74	83	85387	0.449	ppbv	93
30) Cyclohexane	7.12	84	54743m	0.478	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	50382	0.436	ppbv	94
32) 1,1,1-Trichloroethane	6.49	97	80142	0.442	ppbv	92
34) 2-Butanone	5.26	43	43722	0.392	ppbv #	71
35) Carbon Tetrachloride	7.00	117	83547	0.424	ppbv	98
36) Benzene	6.88	78	113716	0.391	ppbv	95
37) 1,2-Dichloroethane	6.29	62	61548m	0.452	ppbv	
38) Trichloroethene	7.82	130	49364	0.386	ppbv	94
39) 1,2-Dichloropropane	7.60	63	38609	0.357	ppbv	87
40) 1,4-Dioxane	7.88	88	12518m	0.397	ppbv	
41) Tetrahydrofuran	6.07	42	26017m	0.422	ppbv	
42) Bromodichloromethane	7.78	83	87087m	0.428	ppbv	
43) Methyl Methacrylate	8.01	69	36511m	0.370	ppbv	

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44) 2,2,4-Trimethylpentane	7.85	57	198736m	0.413	ppbv	
45) t-1,3-Dichloropropene	9.27	75	20634m	0.277	ppbv	
46) cis-1,3-Dichloropropene	8.69	75	31562m	0.293	ppbv	
47) 1,1,2-Trichloroethane	9.46	97	51111m	0.438	ppbv	
48) Dibromochloromethane	10.29	129	65356m	0.372	ppbv	
49) Bromoform	13.02	173	40027	0.300	ppbv	97
50) 4-Methyl-2-Pentanone	8.77	43	73641m	0.427	ppbv	
51) 2-Hexanone	10.17	43	35146m	0.447	ppbv	
52) Tetrachloroethene	11.21	164	51224	0.406	ppbv	96
53) Toluene	9.79	91	127284	0.368	ppbv	97
54) 1,2-Dibromoethane	10.59	107	65185	0.403	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.11	131	54407	0.420	ppbv #	1
57) Chlorobenzene	12.12	112	106997	0.428	ppbv #	88
58) Ethyl Benzene	12.69	91	173318	0.401	ppbv	92
59) m/p-Xylene	12.98	91	297983m	0.819	ppbv	
60) o-Xylene	13.67	91	144587	0.429	ppbv	96
61) Styrene	13.52	104	66583m	0.364	ppbv	
62) Isopropylbenzene	14.64	105	209022	0.428	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.66	83	101364m	0.424	ppbv	
64) n-propylbenzene	15.55	120	48044	0.379	ppbv	70
65) tert-Butylbenzene	16.73	119	188443	0.422	ppbv	97
66) Benzyl Chloride	16.98	91	7919m	0.476	ppbv	
67) sec-Butylbenzene	17.27	105	240498	0.400	ppbv	100
69) p-Isopropyltoluene	17.64	119	211263m	0.417	ppbv	
70) n-Butylbenzene	18.54	91	176628	0.382	ppbv	98
71) 2-Chlorotoluene	15.44	91	129123	0.379	ppbv	94
72) 4-Ethyltoluene	15.82	105	149075	0.369	ppbv	94
73) 1,3,5-Trimethylbenzene	15.98	105	160949m	0.443	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	151892	0.394	ppbv	96
75) 1,3-Dichlorobenzene	16.98	146	101886m	0.429	ppbv	
76) 1,4-Dichlorobenzene	17.12	146	104299m	0.443	ppbv	
77) 1,2-Dichlorobenzene	17.80	146	100851m	0.438	ppbv	
78) Hexachloro-1,3-Butadiene	23.35	225	81091	0.399	ppbv	89
79) Naphthalene	22.18	128	98594m	0.297	ppbv	
80) Naphthalene, 2-methyl-	24.99	142	9314	0.180	ppbv #	90
81) 1,2,4-Trichlorobenzene	21.91	180	68203m	0.347	ppbv	

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

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