

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036212.D
 Acq On : 13 Jan 2021 3:54
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 1/18/2021 3:48:45 PM

Quant Time: Jan 14 16:02:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jan 13
 QLast Update : Wed Jan 13 05:46:16 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1595754	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3405391	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3172074	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2611155	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	243925	1.302 ppbv	96
3) Chlorodifluoromethane	2.99	51	208602	1.143 ppbv	99
4) Chloromethane	3.14	50	99959m	1.113 ppbv	
5) Vinyl Chloride	3.26	62	92474m	0.934 ppbv	
6) Bromomethane	3.47	94	52658m	1.039 ppbv	
7) Chloroethane	3.56	64	32240m	0.967 ppbv	
8) Dichlorotetrafluoroethane	3.18	85	232404m	1.141 ppbv	
9) Propene	3.01	41	98079	1.083 ppbv	96
10) Heptane	8.12	43	241921	1.047 ppbv	95
11) Trichlorofluoromethane	3.95	101	237205m	1.104 ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.48	101	144563	1.008 ppbv	98
13) Ethanol	3.61	45	15038m	1.199 ppbv	
14) Bromoethene	3.74	108	62644m	1.054 ppbv	
15) Acetone	3.85	43	203334	1.077 ppbv #	88
16) 1,3-Butadiene	3.32	39	102316m	1.073 ppbv	
17) tert-Butyl alcohol	4.30	59	182188m	1.025 ppbv	
18) 1,1-Dichloroethene	4.29	96	64576m	1.014 ppbv	
19) Isopropyl Alcohol	3.97	45	133061m	1.153 ppbv	
20) Methylene Chloride	4.34	84	72913m	0.964 ppbv	
21) Allyl Chloride	4.41	41	114039m	0.931 ppbv	
22) trans-1,2-Dichloroethene	4.88	96	60260m	0.951 ppbv	
23) Vinyl Acetate	5.07	43	237634m	0.946 ppbv	
24) 1,1-Dichloroethane	5.01	63	187316m	1.060 ppbv	
25) Ethyl Acetate	5.68	43	429803m	1.137 ppbv	
26) Hexane	5.68	57	183721m	1.081 ppbv	
27) Carbon Disulfide	4.55	76	119394	0.731 ppbv #	91
28) Methyl tert-Butyl Ether	5.04	73	227148	0.961 ppbv	99
29) Chloroform	5.74	83	243614m	1.082 ppbv	
30) Cyclohexane	7.12	84	126695	0.998 ppbv	92
31) cis-1,2-Dichloroethene	5.54	61	153722	0.988 ppbv	90
32) 1,1,1-Trichloroethane	6.51	97	231578	0.997 ppbv	97
34) 2-Butanone	5.25	43	282522m	1.236 ppbv	
35) Carbon Tetrachloride	7.01	117	223603	1.126 ppbv	97
36) Benzene	6.89	78	339463	1.171 ppbv	97
37) 1,2-Dichloroethane	6.30	62	197746	1.170 ppbv	98
38) Trichloroethene	7.83	130	108128	1.010 ppbv	95
39) 1,2-Dichloropropane	7.61	63	133138	1.160 ppbv	92
40) 1,4-Dioxane	7.85	88	56515m	1.562 ppbv	
41) Tetrahydrofuran	6.06	42	154039m	1.149 ppbv	
42) Bromodichloromethane	7.79	83	247584	1.110 ppbv #	93
43) Methyl Methacrylate	8.01	69	136842m	1.100 ppbv	

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44) 2,2,4-Trimethylpentane	7.86	57	649979	1.243	ppbv	100
45) t-1,3-Dichloropropene	9.27	75	115373m	0.907	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	159109	0.991	ppbv	95
47) 1,1,2-Trichloroethane	9.47	97	126115	1.139	ppbv	96
48) Dibromochloromethane	10.30	129	176620m	1.066	ppbv	
49) Bromoform	13.04	173	146613m	1.119	ppbv	
50) 4-Methyl-2-Pentanone	8.74	43	395067	1.162	ppbv	99
51) 2-Hexanone	10.14	43	299646	1.112	ppbv #	98
52) Tetrachloroethene	11.22	164	115099m	1.105	ppbv	
53) Toluene	9.80	91	373771m	1.149	ppbv	
54) 1,2-Dibromoethane	10.61	107	196584m	1.185	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.13	131	146643m	1.116	ppbv	
57) Chlorobenzene	12.14	112	274908m	1.229	ppbv	
58) Ethyl Benzene	12.71	91	503440	1.150	ppbv	99
59) m/p-Xylene	12.99	91	916057m	2.490	ppbv	
60) o-Xylene	13.69	91	441706	1.272	ppbv	97
61) Styrene	13.52	104	261852	1.162	ppbv	99
62) Isopropylbenzene	14.66	105	661297	1.280	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.67	83	310539	1.317	ppbv	99
64) n-propylbenzene	15.56	120	155351	1.242	ppbv	75
65) tert-Butylbenzene	16.74	119	564677	1.329	ppbv	94
66) Benzyl Chloride	16.99	91	99765	0.915	ppbv #	94
67) sec-Butylbenzene	17.29	105	826270	1.376	ppbv	97
69) p-Isopropyltoluene	17.65	119	662877m	1.387	ppbv	
70) n-Butylbenzene	18.55	91	682207	1.419	ppbv	99
71) 2-Chlorotoluene	15.45	91	508724	1.289	ppbv	96
72) 4-Ethyltoluene	15.84	105	495409m	1.301	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	462113	1.268	ppbv	96
74) 1,2,4-Trimethylbenzene	16.76	105	481291	1.317	ppbv #	95
75) 1,3-Dichlorobenzene	16.99	146	255528m	1.385	ppbv	
76) 1,4-Dichlorobenzene	17.13	146	256496m	1.365	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	245598m	1.374	ppbv	
78) Hexachloro-1,3-Butadiene	23.38	225	209955m	1.487	ppbv	
79) Naphthalene	22.21	128	242671m	1.240	ppbv	
80) Naphthalene, 2-methyl-	25.02	142	34579	0.865	ppbv #	75
81) 1,2,4-Trichlorobenzene	21.93	180	152172m	1.224	ppbv	

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

