

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036950.D
 Acq On : 18 May 2021 1:58
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 5/20/2021 5:54:12 PM

Quant Time: May 18 11:58:48 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 07:06:50 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1382258	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4073034	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3805414m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	3012171	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	2069301	8.777 ppbv	100
3) Chlorodifluoromethane	2.98	51	2250259	8.283 ppbv	100
4) Chloromethane	3.13	50	792048	8.924 ppbv	100
5) Vinyl Chloride	3.24	62	852126	8.808 ppbv	100
6) Bromomethane	3.46	94	459759	9.421 ppbv	100
7) Chloroethane	3.54	64	306713	9.847 ppbv	100
8) Dichlorotetrafluoroethane	3.18	85	2002185	9.003 ppbv	100
9) Propene	3.00	41	825125	10.652 ppbv	100
10) Heptane	8.10	43	2029253	11.007 ppbv	100
11) Trichlorofluoromethane	3.93	101	2027672	9.553 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1433390	9.997 ppbv	100
13) Ethanol	3.60	45	92215	6.272 ppbv	100
14) Bromoethene	3.73	108	645966	11.230 ppbv	100
15) Acetone	3.84	43	1053476	8.115 ppbv	100
16) 1,3-Butadiene	3.31	39	818970	9.752 ppbv	100
17) tert-Butyl alcohol	4.28	59	1315074	10.961 ppbv	100
18) 1,1-Dichloroethene	4.27	96	662793	11.249 ppbv	100
19) Isopropyl Alcohol	3.96	45	680407	9.200 ppbv	99
20) Methylene Chloride	4.33	84	582703m	5.498 ppbv	
21) Allyl Chloride	4.39	41	998963	10.452 ppbv	98
22) trans-1,2-Dichloroethene	4.87	96	634613	10.500 ppbv	100
23) Vinyl Acetate	5.06	43	2177408	11.795 ppbv	100
24) 1,1-Dichloroethane	4.99	63	1566217	11.165 ppbv	100
25) Ethyl Acetate	5.66	43	3041316	9.483 ppbv	100
26) Hexane	5.67	57	1487837	9.033 ppbv	100
27) Carbon Disulfide	4.53	76	1681130	11.527 ppbv	100
28) Methyl tert-Butyl Ether	5.02	73	1954363	12.280 ppbv	100
29) Chloroform	5.74	83	2238544	9.058 ppbv	100
30) Cyclohexane	7.11	84	1339599	10.633 ppbv	100
31) cis-1,2-Dichloroethene	5.53	61	1437334	11.139 ppbv	100
32) 1,1,1-Trichloroethane	6.49	97	2324399	8.823 ppbv	100
34) 2-Butanone	5.23	43	1392791	8.942 ppbv	100
35) Carbon Tetrachloride	7.00	117	2373345	7.455 ppbv	100
36) Benzene	6.87	78	3170651	9.691 ppbv	100
37) 1,2-Dichloroethane	6.29	62	1630311	8.400 ppbv	100
38) Trichloroethene	7.81	130	1226247	9.137 ppbv	100
39) 1,2-Dichloropropane	7.59	63	1232110	9.192 ppbv	100
40) 1,4-Dioxane	7.82	88	246890	7.064 ppbv	# 100
41) Tetrahydrofuran	6.03	42	779365	12.253 ppbv	100
42) Bromodichloromethane	7.77	83	2469289	8.641 ppbv	100
43) Methyl Methacrylate	8.00	69	1160683	12.189 ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	5192958	8.928	ppbv	100
45) t-1,3-Dichloropropene	9.26	75	943493	10.973	ppbv	100
46) cis-1,3-Dichloropropene	8.68	75	1225259	10.177	ppbv	100
47) 1,1,2-Trichloroethane	9.46	97	1289232	8.770	ppbv	100
48) Dibromochloromethane	10.28	129	2215304	10.017	ppbv	100
49) Bromoform	13.02	173	1883595	10.347	ppbv	100
50) 4-Methyl-2-Pentanone	8.73	43	2288853	10.737	ppbv	100
51) 2-Hexanone	10.11	43	1237998	13.630	ppbv #	99
52) Tetrachloroethene	11.20	164	1214642	10.100	ppbv	100
53) Toluene	9.78	91	3696546	11.326	ppbv	100
54) 1,2-Dibromoethane	10.59	107	1885844	9.825	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.10	131	1477167	8.443	ppbv	100
57) Chlorobenzene	12.12	112	2675911	8.331	ppbv	100
58) Ethyl Benzene	12.69	91	4902252	10.838	ppbv	100
59) m/p-Xylene	12.97	91	8016994m	18.859	ppbv	
60) o-Xylene	13.67	91	3794022	9.228	ppbv	100
61) Styrene	13.51	104	2334293	13.825	ppbv	100
62) Isopropylbenzene	14.64	105	5385124	9.604	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.65	83	2632691	6.776	ppbv	100
64) n-propylbenzene	15.54	120	1474124	10.623	ppbv	100
65) tert-Butylbenzene	16.72	119	4804482	9.661	ppbv	100
66) Benzyl Chloride	16.96	91	3111140	6.874	ppbv	99
67) sec-Butylbenzene	17.27	105	6635980	9.445	ppbv	100
69) p-Isopropyltoluene	17.63	119	5773988	10.800	ppbv	100
70) n-Butylbenzene	18.53	91	5682228	10.602	ppbv	100
71) 2-Chlorotoluene	15.43	91	4027032	10.045	ppbv	100
72) 4-Ethyltoluene	15.82	105	4756472	11.165	ppbv	100
73) 1,3,5-Trimethylbenzene	15.97	105	4286473	10.298	ppbv	100
74) 1,2,4-Trimethylbenzene	16.74	105	4392220	9.610	ppbv	100
75) 1,3-Dichlorobenzene	16.97	146	2768597	9.344	ppbv	100
76) 1,4-Dichlorobenzene	17.11	146	2669817	10.085	ppbv	100
77) 1,2-Dichlorobenzene	17.80	146	2699076	10.062	ppbv	100
78) Hexachloro-1,3-Butadiene	23.36	225	1979108	8.260	ppbv	100
79) Naphthalene	22.17	128	4094970	19.836	ppbv	100
80) Naphthalene, 2-methyl-	24.96	142	865210	28.597	ppbv	100
81) 1,2,4-Trichlorobenzene	21.90	180	2304355	15.598	ppbv	99

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

