

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092921\
 Data File : VL037736.D
 Acq On : 30 Sep 2021 10:36
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

SAM
 10/1/2021 11:09:34 AM

Quant Time: Oct 01 01:17:02 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021

QLast Update : Thu Sep 16 13:42:46 2021

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.658	49	1260760	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.169	114	3739324	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.076	117	3251221	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.400 95 2497169 10.63 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.30%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.047	85	1999463	8.76	ppbv	100
3) Chlorodifluoromethane	2.986	51	2543593	10.70	ppbv	99
4) Chloromethane	3.137	50	970754	11.05	ppbv	97
5) Vinyl Chloride	3.256	62	976374	11.83	ppbv	99
6) Bromomethane	3.472	94	518741	10.81	ppbv	100
7) Chloroethane	3.555	64	330899	10.73	ppbv	100
8) Dichlorotetrafluoroethane	3.185	85	2170533	11.03	ppbv	99
9) Propene	3.009	41	952147	11.35	ppbv	96
10) Heptane	8.115	43	2331591	11.91	ppbv	100
11) Trichlorofluoromethane	3.947	101	1960146	10.70	ppbv	94
12) 1,1,2-Trichlorotrifluo...	4.481	101	1499476	11.09	ppbv	98
13) Ethanol	3.600	45	94005m	11.46	ppbv	
14) Bromoethene	3.735	108	682232	11.09	ppbv	98
15) Acetone	3.845	43	1194614	9.12	ppbv	99
16) 1,3-Butadiene	3.324	39	934648	11.42	ppbv	99
17) tert-Butyl alcohol	4.282	59	1219881	10.98	ppbv	97
18) 1,1-Dichloroethene	4.282	96	681273	10.82	ppbv	97
19) Isopropyl Alcohol	3.957	45	758370	10.64	ppbv #	97
20) Methylene Chloride	4.340	84	599397	9.58	ppbv	95
21) Allyl Chloride	4.407	41	1101201	11.25	ppbv	99
22) trans-1,2-Dichloroethene	4.880	96	706439	11.15	ppbv	97
23) Vinyl Acetate	5.066	43	2053107	11.33	ppbv #	97
24) 1,1-Dichloroethane	5.005	63	1390301	10.71	ppbv	98
25) Ethyl Acetate	5.671	43	3586916	11.31	ppbv	99
26) Hexane	5.681	57	1696731	11.26	ppbv	98
27) Carbon Disulfide	4.546	76	1672091	12.13	ppbv	100
28) Methyl tert-Butyl Ether	5.025	73	1461600	11.01	ppbv	99
29) Chloroform	5.745	83	2377502	10.80	ppbv	100
30) Cyclohexane	7.124	84	1443506	11.20	ppbv	99
31) cis-1,2-Dichloroethene	5.542	61	1604043	11.72	ppbv	96
32) 1,1,1-Trichloroethane	6.504	97	2265968	11.06	ppbv	99
34) 2-Butanone	5.237	43	1616862	10.64	ppbv	98
35) Carbon Tetrachloride	7.012	117	2366663	11.19	ppbv	99
36) Benzene	6.883	78	3550205	11.39	ppbv	99
37) 1,2-Dichloroethane	6.298	62	1691497	11.03	ppbv	100
38) Trichloroethene	7.825	130	1375301	10.56	ppbv	98
39) 1,2-Dichloropropane	7.607	63	1365173	11.43	ppbv	100
40) 1,4-Dioxane	7.822	88	315975m	10.88	ppbv	
41) Tetrahydrofuran	6.044	42	839935	11.76	ppbv	98
42) Bromodichloromethane	7.783	83	2520971	11.47	ppbv	99
43) Methyl Methacrylate	8.005	69	1264149	12.19	ppbv	98
44) 2,2,4-Trimethylpentane	7.861	57	5856036	11.17	ppbv	99
45) t-1,3-Dichloropropene	9.269	75	1141019	14.00	ppbv	96

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.693	75	1474639	13.40	ppbv	98
47) 1,1,2-Trichloroethane	9.465	97	1415023	10.71	ppbv	98
48) Dibromochloromethane	10.291	129	2221603	12.05	ppbv	98
49) Bromoform	13.028	173	1846640m	12.52	ppbv	
50) 4-Methyl-2-Pentanone	8.732	43	2317810	12.02	ppbv	99
51) 2-Hexanone	10.124	43	1097974	12.90	ppbv #	98
52) Tetrachloroethene	11.211	164	1307226	10.92	ppbv	98
53) Toluene	9.796	91	4114882	11.87	ppbv	99
54) 1,2-Dibromoethane	10.600	107	2032787	11.24	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.114	131	1519512	11.27	ppbv	96
57) Chlorobenzene	12.134	112	2990449	11.06	ppbv	99
58) Ethyl Benzene	12.700	91	5190533	12.03	ppbv	99
59) m/p-Xylene	12.986	91	8701262m	23.14	ppbv	
60) o-Xylene	13.680	91	4009898	11.20	ppbv	98
61) Styrene	13.516	104	2348852	13.31	ppbv	99
62) Isopropylbenzene	14.654	105	5640076	11.28	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.661	83	2917965	10.42	ppbv	100
64) n-propylbenzene	15.548	120	1554596	12.05	ppbv	92
65) tert-Butylbenzene	16.732	119	4976964	11.04	ppbv	99
66) Benzyl Chloride	16.973	91	351422	14.26	ppbv	99
67) sec-Butylbenzene	17.281	105	6976335	11.40	ppbv	99
69) p-Isopropyltoluene	17.638	119	5840694	11.69	ppbv	100
70) n-Butylbenzene	18.535	91	5679114	12.01	ppbv	100
71) 2-Chlorotoluene	15.439	91	4228829	11.80	ppbv	98
72) 4-Ethyltoluene	15.825	105	4918131	11.97	ppbv	100
73) 1,3,5-Trimethylbenzene	15.986	105	4385726	11.45	ppbv	100
74) 1,2,4-Trimethylbenzene	16.751	105	4576663	11.34	ppbv	99
75) 1,3-Dichlorobenzene	16.979	146	2844854	11.35	ppbv	99
76) 1,4-Dichlorobenzene	17.121	146	2757684	11.15	ppbv	99
77) 1,2-Dichlorobenzene	17.799	146	2720473	11.44	ppbv	98
78) Hexachloro-1,3-Butadiene	23.355	225	1965756	9.82	ppbv	99
79) Naphthalene	22.175	128	3291875	13.29	ppbv	99
80) Naphthalene,2-methyl-	24.960	142	999422	17.65	ppbv	98
81) 1,2,4-Trichlorobenzene	21.908	180	1952081	12.27	ppbv	99

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

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[illegible]