

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091721\
 Data File : VL037638.D
 Acq On : 17 Sep 2021 12:08
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 9/20/2021 5:28:27 PM

Quant Time: Sep 18 06:56:50 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 1
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1444788	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4320009	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	4074968	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2905532	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1943049	7.432	ppbv 98
3) Chlorodifluoromethane	2.98	51	2737136	10.044	ppbv 100
4) Chloromethane	3.13	50	1025533	10.185	ppbv 96
5) Vinyl Chloride	3.24	62	1011860	10.699	ppbv 98
6) Bromomethane	3.46	94	572167	10.409	ppbv 100
7) Chloroethane	3.54	64	363355	10.281	ppbv 95
8) Dichlorotetrafluoroethane	3.18	85	2310376	10.244	ppbv 98
9) Propene	3.00	41	973199	10.124	ppbv 97
10) Heptane	8.10	43	2482058	11.065	ppbv 100
11) Trichlorofluoromethane	3.93	101	2064332	9.835	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1572121	10.147	ppbv 100
13) Ethanol	3.60	45	93334	9.926	ppbv 84
14) Bromoethene	3.73	108	713414	10.116	ppbv 100
15) Acetone	3.83	43	1205045	8.028	ppbv 97
16) 1,3-Butadiene	3.31	39	980795	10.456	ppbv 99
17) tert-Butyl alcohol	4.27	59	1495206	11.746	ppbv 99
18) 1,1-Dichloroethene	4.27	96	731342	10.133	ppbv 94
19) Isopropyl Alcohol	3.94	45	824435	10.094	ppbv 98
20) Methylene Chloride	4.33	84	632419	8.825	ppbv 97
21) Allyl Chloride	4.40	41	1152983	10.281	ppbv 99
22) trans-1,2-Dichloroethene	4.87	96	720418	9.921	ppbv 97
23) Vinyl Acetate	5.05	43	2062615	9.930	ppbv # 98
24) 1,1-Dichloroethane	4.99	63	1484700	9.977	ppbv 98
25) Ethyl Acetate	5.66	43	3849854	10.589	ppbv 99
26) Hexane	5.67	57	1818889	10.532	ppbv 99
27) Carbon Disulfide	4.53	76	1768173	11.192	ppbv 99
28) Methyl tert-Butyl Ether	5.01	73	1522567	10.009	ppbv 99
29) Chloroform	5.74	83	2600027	10.310	ppbv 98
30) Cyclohexane	7.11	84	1575070	10.664	ppbv 96
31) cis-1,2-Dichloroethene	5.53	61	1742915	11.117	ppbv 98
32) 1,1,1-Trichloroethane	6.49	97	2500380	10.650	ppbv 99
34) 2-Butanone	5.23	43	1655691	9.431	ppbv 99
35) Carbon Tetrachloride	7.00	117	2614637	10.700	ppbv 99
36) Benzene	6.87	78	3796502	10.539	ppbv 99
37) 1,2-Dichloroethane	6.29	62	1824882	10.300	ppbv 100
38) Trichloroethene	7.81	130	1500927	9.974	ppbv 98
39) 1,2-Dichloropropane	7.59	63	1462378	10.599	ppbv 98
40) 1,4-Dioxane	7.81	88	330089m	9.835	ppbv
41) Tetrahydrofuran	6.03	42	907796	11.000	ppbv 99
42) Bromodichloromethane	7.77	83	2755549	10.852	ppbv 99
43) Methyl Methacrylate	7.99	69	1359010	11.340	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	6335524	10.462	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	1183269	12.570	ppbv	98
46) cis-1,3-Dichloropropene	8.68	75	1551079	12.198	ppbv	99
47) 1,1,2-Trichloroethane	9.45	97	1562676	10.239	ppbv	97
48) Dibromochloromethane	10.28	129	2423720	11.383	ppbv	98
49) Bromoform	13.02	173	2005930	11.771	ppbv	97
50) 4-Methyl-2-Pentanone	8.72	43	2445183	10.973	ppbv	100
51) 2-Hexanone	10.11	43	1139153	11.587	ppbv #	100
52) Tetrachloroethene	11.20	164	1416929	10.246	ppbv	98
53) Toluene	9.79	91	4449907	11.113	ppbv	99
54) 1,2-Dibromoethane	10.59	107	2227941	10.661	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.10	131	1684966	9.969	ppbv	93
57) Chlorobenzene	12.13	112	3308316	9.765	ppbv	98
58) Ethyl Benzene	12.69	91	5697081	10.532	ppbv	99
59) m/p-Xylene	12.98	91	9536020m	20.229	ppbv	
60) o-Xylene	13.67	91	4475310	9.975	ppbv	99
61) Styrene	13.50	104	2583929	11.679	ppbv	99
62) Isopropylbenzene	14.64	105	6149251	9.811	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.65	83	3226750	9.189	ppbv	100
64) n-propylbenzene	15.54	120	1682388	10.402	ppbv	90
65) tert-Butylbenzene	16.72	119	5484920	9.706	ppbv	100
66) Benzyl Chloride	16.97	91	363597	11.773	ppbv	98
67) sec-Butylbenzene	17.27	105	7609232	9.924	ppbv	99
69) p-Isopropyltoluene	17.63	119	6365341	10.162	ppbv	100
70) n-Butylbenzene	18.53	91	6227819	10.508	ppbv	100
71) 2-Chlorotoluene	15.43	91	4598245	10.237	ppbv	98
72) 4-Ethyltoluene	15.81	105	5258664	10.210	ppbv	99
73) 1,3,5-Trimethylbenzene	15.97	105	4817857	10.036	ppbv	98
74) 1,2,4-Trimethylbenzene	16.74	105	5050367	9.988	ppbv	99
75) 1,3-Dichlorobenzene	16.97	146	3128519	9.958	ppbv	100
76) 1,4-Dichlorobenzene	17.11	146	3024194	9.760	ppbv	100
77) 1,2-Dichlorobenzene	17.79	146	2966821	9.957	ppbv	99
78) Hexachloro-1,3-Butadiene	23.35	225	2164840	8.632	ppbv	99
79) Naphthalene	22.17	128	3648813	11.752	ppbv	99
80) Naphthalene, 2-methyl-	24.95	142	1138081	16.037	ppbv	95
81) 1,2,4-Trichlorobenzene	21.90	180	2163475	10.853	ppbv	100

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

