

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061621\
 Data File : VL037193.D
 Acq On : 17 Jun 2021 7:23
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 6/17/2021 5:38:56 PM

Quant Time: Jun 17 09:55:41 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 17
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1515910	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4448962	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4111713m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	3223115	10.34	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	2648643	10.046	ppbv 99
3) Chlorodifluoromethane	2.99	51	2720494	9.229	ppbv 99
4) Chloromethane	3.14	50	949063	9.661	ppbv 99
5) Vinyl Chloride	3.26	62	1019885	9.446	ppbv 100
6) Bromomethane	3.47	94	631829	9.809	ppbv 97
7) Chloroethane	3.56	64	369973	9.587	ppbv 98
8) Dichlorotetrafluoroethane	3.19	85	2526151	9.340	ppbv 100
9) Propene	3.01	41	891005	9.454	ppbv 100
10) Heptane	8.12	43	2256724	9.887	ppbv 100
11) Trichlorofluoromethane	3.95	101	2627711	9.341	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1902473	9.594	ppbv 100
13) Ethanol	3.61	45	137255m	9.414	ppbv
14) Bromoethene	3.74	108	818868	9.894	ppbv 99
15) Acetone	3.85	43	1364881	7.984	ppbv 98
16) 1,3-Butadiene	3.33	39	978649	9.684	ppbv 98
17) tert-Butyl alcohol	4.29	59	1664832	10.537	ppbv 99
18) 1,1-Dichloroethene	4.29	96	836035	9.514	ppbv 98
19) Isopropyl Alcohol	3.97	45	1021305	9.864	ppbv 99
20) Methylene Chloride	4.34	84	746637	7.296	ppbv 95
21) Allyl Chloride	4.41	41	1206698	9.365	ppbv 95
22) trans-1,2-Dichloroethene	4.88	96	854116	9.823	ppbv 99
23) Vinyl Acetate	5.07	43	2504085	10.216	ppbv 99
24) 1,1-Dichloroethane	5.01	63	1950077	9.881	ppbv 100
25) Ethyl Acetate	5.68	43	3554242	9.604	ppbv 99
26) Hexane	5.69	57	1713851	9.163	ppbv 99
27) Carbon Disulfide	4.55	76	1944519	10.611	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	2227958	9.908	ppbv 99
29) Chloroform	5.75	83	2733249	9.460	ppbv 97
30) Cyclohexane	7.13	84	1479018	9.490	ppbv 100
31) cis-1,2-Dichloroethene	5.55	61	1721195	10.014	ppbv 99
32) 1,1,1-Trichloroethane	6.51	97	2827782	9.146	ppbv 100
34) 2-Butanone	5.25	43	1697794	9.812	ppbv 98
35) Carbon Tetrachloride	7.02	117	2976844	9.976	ppbv 98
36) Benzene	6.89	78	3535431	9.827	ppbv 100
37) 1,2-Dichloroethane	6.31	62	2070455	9.907	ppbv 100
38) Trichloroethene	7.84	130	1502712	8.787	ppbv 97
39) 1,2-Dichloropropane	7.61	63	1342491	10.042	ppbv 98
40) 1,4-Dioxane	7.83	88	366285	9.992	ppbv 93
41) Tetrahydrofuran	6.05	42	840192	10.454	ppbv 99
42) Bromodichloromethane	7.79	83	2899359	10.056	ppbv 100
43) Methyl Methacrylate	8.01	69	1306414	10.515	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5817093	9.602	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	1314545	11.992	ppbv	99
46) cis-1,3-Dichloropropene	8.70	75	1672574	11.154	ppbv	98
47) 1,1,2-Trichloroethane	9.47	97	1479126	9.698	ppbv	97
48) Dibromochloromethane	10.30	129	2619605	10.881	ppbv	99
49) Bromoform	13.04	173	2133228	11.893	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2491228	10.482	ppbv	100
51) 2-Hexanone	10.14	43	1294828	11.198	ppbv #	99
52) Tetrachloroethene	11.22	164	1465585	8.767	ppbv	98
53) Toluene	9.81	91	4248525	9.886	ppbv	100
54) 1,2-Dibromoethane	10.61	107	2267084	10.343	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.13	131	1810635	10.072	ppbv	97
57) Chlorobenzene	12.15	112	3226233	9.675	ppbv	95
58) Ethyl Benzene	12.71	91	5613234	9.917	ppbv	99
59) m/p-Xylene	13.00	91	9512233m	19.830	ppbv	
60) o-Xylene	13.69	91	4504778	9.863	ppbv	99
61) Styrene	13.53	104	2591595	10.994	ppbv	98
62) Isopropylbenzene	14.67	105	6243855	9.614	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.67	83	3023599	9.942	ppbv	99
64) n-propylbenzene	15.56	120	1699609	10.449	ppbv	98
65) tert-Butylbenzene	16.74	119	5709837	9.912	ppbv	100
66) Benzyl Chloride	16.99	91	273579	11.207	ppbv	99
67) sec-Butylbenzene	17.29	105	7600088	9.894	ppbv	100
69) p-Isopropyltoluene	17.65	119	6628802	10.217	ppbv	100
70) n-Butylbenzene	18.55	91	6300524	10.493	ppbv	100
71) 2-Chlorotoluene	15.45	91	4590100	10.108	ppbv	100
72) 4-Ethyltoluene	15.84	105	5482571	10.566	ppbv	100
73) 1,3,5-Trimethylbenzene	16.00	105	4925297	9.820	ppbv	99
74) 1,2,4-Trimethylbenzene	16.77	105	5219224	10.099	ppbv	95
75) 1,3-Dichlorobenzene	17.00	146	3234744	10.294	ppbv	100
76) 1,4-Dichlorobenzene	17.14	146	3130592	9.975	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	3093773	10.178	ppbv	99
78) Hexachloro-1,3-Butadiene	23.37	225	2038127	7.798	ppbv	99
79) Naphthalene	22.19	128	4098053	9.511	ppbv	99
80) Naphthalene, 2-methyl-	24.98	142	1183604	10.474	ppbv	95
81) 1,2,4-Trichlorobenzene	21.93	180	2271985	9.138	ppbv	98

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

