

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
 Data File : VL036070.D
 Acq On : 7 Dec 2020 16:17
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 12/10/2020 9:53:24 AM

Quant Time: Dec 07 16:53:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 2020
 QLast Update : Mon Dec 07 13:39:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1232343	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2876604	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2864618	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2214030	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	1703883	7.942	ppbv	100
3) Chlorodifluoromethane	3.00	51	2037453	14.014	ppbv	99
4) Chloromethane	3.15	50	1006357	14.143	ppbv	98
5) Vinyl Chloride	3.27	62	1055355	11.680	ppbv	98
6) Bromomethane	3.48	94	569592	8.013	ppbv	87
7) Chloroethane	3.57	64	376750	11.605	ppbv	92
8) Dichlorotetrafluoroethane	3.20	85	2182940	8.629	ppbv	100
9) Propene	3.02	41	997500	19.648	ppbv	96
10) Heptane	8.15	43	2546105	18.379	ppbv	99
11) Trichlorofluoromethane	3.96	101	2450672	8.429	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1658538	7.582	ppbv	99
13) Ethanol	3.62	45	146007	14.220	ppbv	89
14) Bromoethene	3.75	108	724533m	8.173	ppbv	
15) Acetone	3.86	43	1969308	15.381	ppbv	99
16) 1,3-Butadiene	3.34	39	1079178	19.179	ppbv	100
17) tert-Butyl alcohol	4.31	59	1795011	12.791	ppbv	100
18) 1,1-Dichloroethene	4.30	96	739575	7.621	ppbv	98
19) Isopropyl Alcohol	3.98	45	1137605	16.563	ppbv #	100
20) Methylene Chloride	4.36	84	669138	6.041	ppbv	96
21) Allyl Chloride	4.43	41	1372144	20.109	ppbv	96
22) trans-1,2-Dichloroethene	4.90	96	728457	7.564	ppbv	99
23) Vinyl Acetate	5.09	43	2898846	19.173	ppbv #	98
24) 1,1-Dichloroethane	5.03	63	2000746	11.585	ppbv	98
25) Ethyl Acetate	5.70	43	4163406	16.169	ppbv	99
26) Hexane	5.71	57	1740803	12.734	ppbv	98
27) Carbon Disulfide	4.56	76	2033451	10.212	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	2714354	13.320	ppbv	100
29) Chloroform	5.78	83	2534119	9.809	ppbv	99
30) Cyclohexane	7.15	84	1378016	10.677	ppbv	97
31) cis-1,2-Dichloroethene	5.57	61	1804193	14.417	ppbv	99
32) 1,1,1-Trichloroethane	6.53	97	2585531	10.917	ppbv	99
34) 2-Butanone	5.26	43	2604322	26.413	ppbv	100
35) Carbon Tetrachloride	7.04	117	2505644	16.660	ppbv	98
36) Benzene	6.92	78	3444432	17.507	ppbv	98
37) 1,2-Dichloroethane	6.33	62	2115509	20.727	ppbv	99
38) Trichloroethene	7.86	130	1130495	12.842	ppbv	98
39) 1,2-Dichloropropane	7.64	63	1407528	18.673	ppbv	99
40) 1,4-Dioxane	7.85	88	390522	15.537	ppbv #	1
41) Tetrahydrofuran	6.07	42	1640820m	31.877	ppbv	
42) Bromodichloromethane	7.82	83	2794372	17.310	ppbv	97
43) Methyl Methacrylate	8.04	69	1547119	21.586	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	5973879	20.483	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	1740328	25.690	ppbv	100
46) cis-1,3-Dichloropropene	8.73	75	2026303	22.314	ppbv	98
47) 1,1,2-Trichloroethane	9.51	97	1337264	14.153	ppbv	98
48) Dibromochloromethane	10.34	129	2183722	16.423	ppbv	99
49) Bromoform	13.07	173	1788277	18.128	ppbv	100
50) 4-Methyl-2-Pentanone	8.77	43	4067437	27.140	ppbv	99
51) 2-Hexanone	10.16	43	3309588	30.519	ppbv #	98
52) Tetrachloroethene	11.26	164	1133239	14.857	ppbv	98
53) Toluene	9.83	91	3905334m	18.230	ppbv	
54) 1,2-Dibromoethane	10.64	107	2000998	14.930	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.16	131	1619018	13.839	ppbv	97
57) Chlorobenzene	12.18	112	2605712	12.330	ppbv	99
58) Ethyl Benzene	12.74	91	5118197	18.064	ppbv	94
59) m/p-Xylene	13.03	91	8451846m	32.717	ppbv	
60) o-Xylene	13.72	91	3944010	15.129	ppbv	100
61) Styrene	13.56	104	2772765	18.778	ppbv	99
62) Isopropylbenzene	14.70	105	5781294	14.940	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	2566047	11.743	ppbv	100
64) n-propylbenzene	15.60	120	1465853	14.389	ppbv	96
65) tert-Butylbenzene	16.78	119	4730990	14.583	ppbv	100
66) Benzyl Chloride	17.02	91	1549299	19.828	ppbv	99
67) sec-Butylbenzene	17.33	105	6567282	14.821	ppbv	100
69) p-Isopropyltoluene	17.69	119	5355817	16.008	ppbv	99
70) n-Butylbenzene	18.58	91	5436662	16.412	ppbv	100
71) 2-Chlorotoluene	15.49	91	4442182	16.687	ppbv	100
72) 4-Ethyltoluene	15.87	105	4486117	16.714	ppbv	100
73) 1,3,5-Trimethylbenzene	16.03	105	4127926	16.413	ppbv	97
74) 1,2,4-Trimethylbenzene	16.80	105	4071969	14.512	ppbv	95
75) 1,3-Dichlorobenzene	17.03	146	2135458	12.589	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	2134113	13.311	ppbv	98
77) 1,2-Dichlorobenzene	17.85	146	2026276	13.023	ppbv	98
78) Hexachloro-1,3-Butadiene	23.41	225	1602445	18.734	ppbv	99
79) Naphthalene	22.24	128	2742284	20.954	ppbv	98
80) Naphthalene, 2-methyl-	25.00	142	1139841	42.986	ppbv	97
81) 1,2,4-Trichlorobenzene	21.97	180	1624461	18.068	ppbv #	100

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

