

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
 Data File : VL036066.D
 Acq On : 7 Dec 2020 13:47
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 12/10/2020 9:53:16 AM

Quant Time: Dec 07 14:46:12 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	5.68	49	1268404	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2915188	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2673230	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2151664	10.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	166718	0.755	ppbv	96
3) Chlorodifluoromethane	3.00	51	153695	1.027	ppbv	100
4) Chloromethane	3.15	50	71225	0.973	ppbv #	87
5) Vinyl Chloride	3.27	62	69808	0.751	ppbv #	80
6) Bromomethane	3.48	94	44545m	0.609	ppbv	
7) Chloroethane	3.56	64	25899m	0.775	ppbv	
8) Dichlorotetrafluoroethane	3.20	85	169058m	0.649	ppbv	
9) Propene	3.02	41	75947m	1.453	ppbv	
10) Heptane	8.14	43	194962m	1.367	ppbv	
11) Trichlorofluoromethane	3.96	101	183214m	0.612	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.50	101	118067m	0.524	ppbv	
13) Ethanol	3.63	45	8048m	0.762	ppbv	
14) Bromoethene	3.75	108	46823	0.513	ppbv	96
15) Acetone	3.87	43	159325	1.209	ppbv #	86
16) 1,3-Butadiene	3.34	39	83156m	1.436	ppbv	
17) tert-Butyl alcohol	4.31	59	166557m	1.153	ppbv	
18) 1,1-Dichloroethene	4.30	96	51215	0.513	ppbv	88
19) Isopropyl Alcohol	3.99	45	103736m	1.467	ppbv	
20) Methylene Chloride	4.36	84	74972m	0.658	ppbv	
21) Allyl Chloride	4.43	41	105964m	1.509	ppbv	
22) trans-1,2-Dichloroethene	4.90	96	53827m	0.543	ppbv	
23) Vinyl Acetate	5.09	43	190691	1.225	ppbv #	93
24) 1,1-Dichloroethane	5.02	63	150814m	0.848	ppbv	
25) Ethyl Acetate	5.70	43	312729	1.180	ppbv	99
26) Hexane	5.71	57	147614m	1.049	ppbv	
27) Carbon Disulfide	4.57	76	133456	0.651	ppbv	96
28) Methyl tert-Butyl Ether	5.06	73	195191	0.931	ppbv	99
29) Chloroform	5.76	83	182937	0.688	ppbv	86
30) Cyclohexane	7.15	84	105787m	0.796	ppbv	
31) cis-1,2-Dichloroethene	5.56	61	122401	0.950	ppbv	91
32) 1,1,1-Trichloroethane	6.52	97	191477m	0.786	ppbv	
34) 2-Butanone	5.26	43	206029m	2.062	ppbv	
35) Carbon Tetrachloride	7.04	117	176311m	1.157	ppbv	
36) Benzene	6.91	78	262285m	1.315	ppbv	
37) 1,2-Dichloroethane	6.32	62	149478	1.445	ppbv	99
38) Trichloroethene	7.86	130	90134	1.010	ppbv	90
39) 1,2-Dichloropropane	7.63	63	98983	1.296	ppbv	93
40) 1,4-Dioxane	7.88	88	32164m	1.263	ppbv	
41) Tetrahydrofuran	6.08	42	115992m	2.224	ppbv	
42) Bromodichloromethane	7.81	83	187932	1.149	ppbv	93
43) Methyl Methacrylate	8.04	69	110200	1.517	ppbv	96

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44) 2,2,4-Trimethylpentane	7.89	57	472239	1.598	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	101803m	1.483	ppbv	
46) cis-1,3-Dichloropropene	8.73	75	136736m	1.486	ppbv	
47) 1,1,2-Trichloroethane	9.50	97	98627m	1.030	ppbv	
48) Dibromochloromethane	10.33	129	135583	1.006	ppbv	98
49) Bromoform	13.06	173	101183	1.012	ppbv	95
50) 4-Methyl-2-Pentanone	8.78	43	287733	1.894	ppbv	99
51) 2-Hexanone	10.17	43	226811m	2.064	ppbv	
52) Tetrachloroethene	11.25	164	86242m	1.116	ppbv	
53) Toluene	9.83	91	287553	1.325	ppbv	100
54) 1,2-Dibromoethane	10.64	107	139019m	1.024	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.15	131	114617m	1.050	ppbv	
57) Chlorobenzene	12.18	112	204624m	1.038	ppbv	
58) Ethyl Benzene	12.73	91	396585	1.500	ppbv	96
59) m/p-Xylene	13.02	91	676905m	2.808	ppbv	
60) o-Xylene	13.72	91	312188	1.283	ppbv	99
61) Styrene	13.55	104	194581m	1.412	ppbv	
62) Isopropylbenzene	14.69	105	467717	1.295	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	199420m	0.978	ppbv	
64) n-propylbenzene	15.59	120	107024	1.126	ppbv	86
65) tert-Butylbenzene	16.77	119	387832	1.281	ppbv	96
66) Benzyl Chloride	17.02	91	75696m	1.038	ppbv	
67) sec-Butylbenzene	17.33	105	540096	1.306	ppbv	98
69) p-Isopropyltoluene	17.68	119	420392	1.346	ppbv	98
70) n-Butylbenzene	18.59	91	428814m	1.387	ppbv	
71) 2-Chlorotoluene	15.49	91	347310m	1.398	ppbv	
72) 4-Ethyltoluene	15.87	105	338965	1.353	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	322447m	1.374	ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	337052m	1.287	ppbv	
75) 1,3-Dichlorobenzene	17.03	146	158790m	1.003	ppbv	
76) 1,4-Dichlorobenzene	17.17	146	163789m	1.095	ppbv	
77) 1,2-Dichlorobenzene	17.85	146	156455m	1.078	ppbv	
78) Hexachloro-1,3-Butadiene	23.41	225	124854m	1.564	ppbv	
79) Naphthalene	22.25	128	127048m	1.040	ppbv	
80) Naphthalene, 2-methyl-	25.05	142	10051m	0.406	ppbv	
81) 1,2,4-Trichlorobenzene	21.97	180	100572m	1.199	ppbv	

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

