

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030920\
 Data File : VL034843.D
 Acq On : 9 Mar 2020 13:36
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 3/11/2020 3:25:59 PM

Quant Time: Mar 09 15:45:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 15:45:19 2020
 QLast Update : Mon Mar 09 15:34:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	936051	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2141657	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2158837	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.45	95	1688527	9.38	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	164606	1.078	ppbv	100
3) Chlorodifluoromethane	2.95	51	105850	0.993	ppbv	98
4) Chloromethane	3.10	50	62304	1.085	ppbv	95
5) Vinyl Chloride	3.22	62	60247	0.993	ppbv	94
6) Bromomethane	3.44	94	34076	1.029	ppbv	97
7) Chloroethane	3.52	64	21550	1.027	ppbv	90
8) Dichlorotetrafluoroethane	3.15	85	145062	1.093	ppbv	99
9) Propene	2.97	41	50111	1.194	ppbv	97
10) Heptane	8.13	43	127869	1.199	ppbv	97
11) Trichlorofluoromethane	3.92	101	146232	1.070	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	100022	1.061	ppbv	100
13) Ethanol	3.58	45	17596	1.223	ppbv	98
14) Bromoethene	3.71	108	43496	1.124	ppbv	93
15) Acetone	3.83	43	130876	1.168	ppbv	94
16) 1,3-Butadiene	3.29	39	53262	1.050	ppbv	95
17) tert-Butyl alcohol	4.27	59	125890	1.424	ppbv	100
18) 1,1-Dichloroethene	4.26	96	44538	1.071	ppbv	98
19) Isopropyl Alcohol	3.94	45	81619	1.215	ppbv #	40
20) Methylene Chloride	4.32	84	41369	1.034	ppbv	87
21) Allyl Chloride	4.38	41	79398	1.119	ppbv	96
22) trans-1,2-Dichloroethene	4.86	96	45598	1.123	ppbv	90
23) Vinyl Acetate	5.06	43	185593	1.235	ppbv #	96
24) 1,1-Dichloroethane	4.99	63	127044	1.089	ppbv	99
25) Ethyl Acetate	5.67	43	232351	1.200	ppbv	99
26) Hexane	5.67	57	96362m	1.139	ppbv	
27) Carbon Disulfide	4.53	76	104801	1.060	ppbv #	85
28) Methyl tert-Butyl Ether	5.02	73	165805	1.316	ppbv	99
29) Chloroform	5.74	83	151755	1.065	ppbv	92
30) Cyclohexane	7.13	84	79575	1.229	ppbv	96
31) cis-1,2-Dichloroethene	5.53	61	98151	1.131	ppbv	96
32) 1,1,1-Trichloroethane	6.50	97	146296	1.039	ppbv	98
34) 2-Butanone	5.23	43	150516	1.080	ppbv	98
35) Carbon Tetrachloride	7.02	117	143314	0.887	ppbv	93
36) Benzene	6.89	78	201939	1.103	ppbv	97
37) 1,2-Dichloroethane	6.30	62	115728	0.926	ppbv	99
38) Trichloroethene	7.84	130	77441	1.086	ppbv	94
39) 1,2-Dichloropropane	7.61	63	80134	1.085	ppbv	88
40) 1,4-Dioxane	7.87	88	32116m	1.257	ppbv	
41) Tetrahydrofuran	6.05	42	82383	1.159	ppbv	98
42) Bromodichloromethane	7.79	83	152631	0.965	ppbv	98
43) Methyl Methacrylate	8.02	69	80139	1.033	ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	344603	1.078	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	93110	1.144	ppbv	93
46) cis-1,3-Dichloropropene	8.71	75	113556	1.142	ppbv	90
47) 1,1,2-Trichloroethane	9.48	97	81436m	1.044	ppbv	
48) Dibromochloromethane	10.32	129	127690	1.047	ppbv	98
49) Bromoform	13.06	173	110229	1.036	ppbv	98
50) 4-Methyl-2-Pentanone	8.76	43	215499	1.079	ppbv	100
51) 2-Hexanone	10.16	43	167640	1.070	ppbv #	96
52) Tetrachloroethene	11.24	164	75119	1.111	ppbv	96
53) Toluene	9.82	91	231340	1.194	ppbv	99
54) 1,2-Dibromoethane	10.63	107	122240	1.060	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.15	131	104049m	1.088	ppbv	
57) Chlorobenzene	12.17	112	185460	1.125	ppbv	93
58) Ethyl Benzene	12.73	91	309899	1.165	ppbv	96
59) m/p-Xylene	13.02	91	540482m	2.347	ppbv	
60) o-Xylene	13.71	91	264280m	1.134	ppbv	
61) Styrene	13.55	104	179464m	1.242	ppbv	
62) Isopropylbenzene	14.69	105	400163	1.167	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	178029	0.969	ppbv	98
64) n-propylbenzene	15.59	120	100573m	1.170	ppbv	
65) tert-Butylbenzene	16.78	119	349883	1.207	ppbv	98
66) Benzyl Chloride	17.02	91	132650m	1.416	ppbv	
67) sec-Butylbenzene	17.33	105	484358	1.147	ppbv	97
69) p-Isopropyltoluene	17.69	119	399981	1.170	ppbv	98
70) n-Butylbenzene	18.59	91	403150	1.079	ppbv	99
71) 2-Chlorotoluene	15.48	91	298443	1.152	ppbv	98
72) 4-Ethyltoluene	15.87	105	298408	1.150	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	281319	1.130	ppbv	91
74) 1,2,4-Trimethylbenzene	16.79	105	294473	1.089	ppbv #	80
75) 1,3-Dichlorobenzene	17.04	146	181028m	1.130	ppbv	
76) 1,4-Dichlorobenzene	17.18	146	180340m	1.177	ppbv	
77) 1,2-Dichlorobenzene	17.85	146	174589m	1.140	ppbv	
78) Hexachloro-1,3-Butadiene	23.42	225	140920	1.102	ppbv	99
79) Naphthalene	22.26	128	184743	0.909	ppbv #	92
80) Naphthalene, 2-methyl-	25.03	142	15063	0.310	ppbv	95
81) 1,2,4-Trichlorobenzene	21.99	180	125732	0.978	ppbv	95

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

