

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034778.D
 Acq On : 4 Mar 2020 2:42
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

apatel
 3/4/2020 4:45:00 PM

Quant Time: Mar 04 06:16:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1119437	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2329350	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2306286	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1922878	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	215307	1.220 ppbv	90
3) Chlorodifluoromethane	2.96	51	138537	1.143 ppbv	99
4) Chloromethane	3.12	50	72606	1.080 ppbv	100
5) Vinyl Chloride	3.24	62	71695	1.084 ppbv	95
6) Bromomethane	3.46	94	41815	1.081 ppbv	90
7) Chloroethane	3.54	64	27465	1.123 ppbv	99
8) Dichlorotetrafluoroethane	3.17	85	170813	1.095 ppbv	99
9) Propene	2.99	41	51772	1.027 ppbv	100
10) Heptane	8.16	43	130774	1.006 ppbv	97
11) Trichlorofluoromethane	3.94	101	179785	1.162 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	121058	1.114 ppbv	97
13) Ethanol	3.60	45	21753m	1.370 ppbv	
14) Bromoethene	3.73	108	49541	1.087 ppbv	97
15) Acetone	3.85	43	145189	1.137 ppbv	96
16) 1,3-Butadiene	3.31	39	62667	1.057 ppbv	98
17) tert-Butyl alcohol	4.29	59	124309m	1.269 ppbv	
18) 1,1-Dichloroethene	4.29	96	53554	1.097 ppbv	98
19) Isopropyl Alcohol	3.96	45	92174m	1.210 ppbv	
20) Methylene Chloride	4.34	84	53650m	1.134 ppbv	
21) Allyl Chloride	4.41	41	88843	1.062 ppbv	98
22) trans-1,2-Dichloroethene	4.89	96	51055	1.083 ppbv	89
23) Vinyl Acetate	5.08	43	184322	1.062 ppbv	99
24) 1,1-Dichloroethane	5.01	63	142943	1.034 ppbv	98
25) Ethyl Acetate	5.69	43	246634	1.090 ppbv	98
26) Hexane	5.70	57	103896	0.999 ppbv	92
27) Carbon Disulfide	4.55	76	117867	1.009 ppbv #	90
28) Methyl tert-Butyl Ether	5.04	73	162010	1.093 ppbv	99
29) Chloroform	5.76	83	183687	1.108 ppbv	89
30) Cyclohexane	7.16	84	74355	0.922 ppbv	96
31) cis-1,2-Dichloroethene	5.56	61	105507	1.031 ppbv	92
32) 1,1,1-Trichloroethane	6.54	97	158926	1.023 ppbv	96
34) 2-Butanone	5.26	43	161186	1.096 ppbv	99
35) Carbon Tetrachloride	7.04	117	166490	1.066 ppbv #	94
36) Benzene	6.92	78	203002	1.011 ppbv	95
37) 1,2-Dichloroethane	6.33	62	138806	1.087 ppbv	99
38) Trichloroethene	7.87	130	76131m	0.982 ppbv	
39) 1,2-Dichloropropane	7.65	63	84192	1.057 ppbv	92
40) 1,4-Dioxane	7.89	88	32553m	1.201 ppbv	
41) Tetrahydrofuran	6.08	42	79526m	1.032 ppbv	
42) Bromodichloromethane	7.82	83	172913	1.035 ppbv #	95
43) Methyl Methacrylate	8.05	69	79504	0.942 ppbv	93

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44) 2,2,4-Trimethylpentane	7.90	57	366594	1.045	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	75979m	0.829	ppbv	
46) cis-1,3-Dichloropropene	8.74	75	100613	0.914	ppbv	98
47) 1,1,2-Trichloroethane	9.52	97	85263	1.037	ppbv	92
48) Dibromochloromethane	10.35	129	127644	0.995	ppbv	98
49) Bromoform	13.10	173	109268	0.978	ppbv	100
50) 4-Methyl-2-Pentanone	8.79	43	219207	1.050	ppbv	97
51) 2-Hexanone	10.19	43	160545	0.977	ppbv #	97
52) Tetrachloroethene	11.28	164	71600	0.968	ppbv	89
53) Toluene	9.85	91	213062	0.997	ppbv	96
54) 1,2-Dibromoethane	10.66	107	127903m	1.042	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.18	131	109729	1.106	ppbv #	1
57) Chlorobenzene	12.20	112	187742m	1.100	ppbv	
58) Ethyl Benzene	12.77	91	294016	1.048	ppbv	100
59) m/p-Xylene	13.05	91	521615m	2.143	ppbv	
60) o-Xylene	13.74	91	273095	1.126	ppbv	91
61) Styrene	13.59	104	149887	0.965	ppbv	98
62) Isopropylbenzene	14.73	105	395540	1.118	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.73	83	199702m	1.057	ppbv	
64) n-propylbenzene	15.63	120	95719m	1.050	ppbv	
65) tert-Butylbenzene	16.81	119	336153	1.098	ppbv	96
66) Benzyl Chloride	17.06	91	83497m	0.752	ppbv	
67) sec-Butylbenzene	17.36	105	491433	1.113	ppbv	98
69) p-Isopropyltoluene	17.72	119	390758	1.075	ppbv	98
70) n-Butylbenzene	18.61	91	425099m	1.073	ppbv	
71) 2-Chlorotoluene	15.51	91	288529	1.050	ppbv	98
72) 4-Ethyltoluene	15.90	105	281903	1.042	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	275343	1.056	ppbv	89
74) 1,2,4-Trimethylbenzene	16.83	105	309477	1.074	ppbv #	87
75) 1,3-Dichlorobenzene	17.06	146	188952	1.136	ppbv	98
76) 1,4-Dichlorobenzene	17.20	146	171495m	1.033	ppbv	
77) 1,2-Dichlorobenzene	17.88	146	170394	1.061	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	150032m	1.084	ppbv	
79) Naphthalene	22.30	128	188602	0.743	ppbv #	93
80) Naphthalene, 2-methyl-	25.04	142	31305m	0.400	ppbv	
81) 1,2,4-Trichlorobenzene	22.02	180	128595m	0.846	ppbv	

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

