

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020419\
 Data File : VL033156.D
 Acq On : 4 Feb 2019 13:51
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 2/5/2019 10:27:36 AM

Quant Time: Feb 04 14:43:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 04
 QLast Update : Fri Feb 01 22:01:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1323737	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.30	114	3153795	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.25	117	3340586m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2481375	9.84	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	2802123	14.115 ppbv	99
3) Chlorodifluoromethane	3.02	51	1841669	8.651 ppbv	99
4) Chloromethane	3.17	50	1039611	8.483 ppbv	100
5) Vinyl Chloride	3.29	62	973485	7.261 ppbv	97
6) Bromomethane	3.52	94	559530	9.471 ppbv	97
7) Chloroethane	3.60	64	344575	9.524 ppbv	93
8) Dichlorotetrafluoroethane	3.22	85	2153107	8.770 ppbv	98
9) Propene	3.04	41	900497	8.277 ppbv	98
10) Heptane	8.25	43	2661306	13.129 ppbv	99
11) Trichlorofluoromethane	4.01	101	2262182	10.828 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1479801	11.130 ppbv	97
13) Ethanol	3.65	45	192404m	6.251 ppbv	
14) Bromoethene	3.79	108	687283	10.219 ppbv	98
15) Acetone	3.90	43	1614497	9.621 ppbv	99
16) 1,3-Butadiene	3.37	39	804761	10.003 ppbv	98
17) tert-Butyl alcohol	4.36	59	341098	8.431 ppbv	99
18) 1,1-Dichloroethene	4.35	96	710330	11.059 ppbv	96
19) Isopropyl Alcohol	4.03	45	1101177	8.583 ppbv	# 46
20) Methylene Chloride	4.41	84	597531	9.204 ppbv	96
21) Allyl Chloride	4.48	41	1190678	11.045 ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	717978	11.996 ppbv	97
23) Vinyl Acetate	5.16	43	3181181	10.917 ppbv	99
24) 1,1-Dichloroethane	5.10	63	2092629	10.764 ppbv	99
25) Ethyl Acetate	5.78	43	4195611	11.673 ppbv	100
26) Hexane	5.79	57	1910183	10.855 ppbv	99
27) Carbon Disulfide	4.62	76	1788253	12.585 ppbv	97
28) Methyl tert-Butyl Ether	5.12	73	2600209	10.280 ppbv	100
29) Chloroform	5.86	83	3026091	12.731 ppbv	99
30) Cyclohexane	7.25	84	1685461	12.354 ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1703445	10.600 ppbv	97
32) 1,1,1-Trichloroethane	6.63	97	2883952	11.750 ppbv	# 83
34) 2-Butanone	5.33	43	2467956	10.237 ppbv	100
35) Carbon Tetrachloride	7.14	117	2880279	12.172 ppbv	100
36) Benzene	7.01	78	4094589	11.577 ppbv	98
37) 1,2-Dichloroethane	6.42	62	2290960	12.722 ppbv	99
38) Trichloroethene	7.97	130	1401501	9.841 ppbv	97
39) 1,2-Dichloropropane	7.74	63	1610599	12.425 ppbv	97
40) 1,4-Dioxane	7.96	88	501914	10.996 ppbv	75
41) Tetrahydrofuran	6.15	42	1754040	12.111 ppbv	99
42) Bromodichloromethane	7.92	83	3248939	12.657 ppbv	98
43) Methyl Methacrylate	8.14	69	1703301	13.746 ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.00	57	6572004	11.516	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	2296061	15.338	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	2580809	14.379	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	1628773	13.776	ppbv	93
48) Dibromochloromethane	10.46	129	2705132	13.726	ppbv	100
49) Bromoform	13.21	173	2244189	13.725	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	4156837	13.275	ppbv	100
51) 2-Hexanone	10.28	43	3425063	12.278	ppbv #	100
52) Tetrachloroethene	11.38	164	1315866	9.808	ppbv	99
53) Toluene	9.96	91	4720415	11.657	ppbv	99
54) 1,2-Dibromoethane	10.77	107	2562899	11.524	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1814485	12.211	ppbv	96
57) Chlorobenzene	12.31	112	3322980	11.303	ppbv	96
58) Ethyl Benzene	12.87	91	6303451	11.505	ppbv	99
59) m/p-Xylene	13.16	91	10241669m	22.917	ppbv	
60) o-Xylene	13.86	91	4850668	11.222	ppbv	97
61) Styrene	13.69	104	3997094	12.055	ppbv	98
62) Isopropylbenzene	14.83	105	6991622	11.377	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	3391987	10.401	ppbv	100
64) n-propylbenzene	15.73	120	1858068	11.800	ppbv	97
65) tert-Butylbenzene	16.92	119	5993341	11.589	ppbv	96
66) Benzyl Chloride	17.16	91	3654321	15.775	ppbv	98
67) sec-Butylbenzene	17.47	105	8693151	11.835	ppbv	99
69) p-Isopropyltoluene	17.82	119	7208295	12.450	ppbv	98
70) n-Butylbenzene	18.72	91	7831549	13.295	ppbv	99
71) 2-Chlorotoluene	15.62	91	5592831	11.958	ppbv	98
72) 4-Ethyltoluene	16.01	105	5973621	12.330	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	5649882	12.934	ppbv	98
74) 1,2,4-Trimethylbenzene	16.94	105	5504221	12.794	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	3106290	12.118	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	3208246	12.534	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	3148517	12.735	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	2252807	19.667	ppbv	99
79) Naphthalene	22.42	128	6379330	22.613	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	3022516	36.322	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	2921924	19.676	ppbv	100

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

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