

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033436.D
 Acq On : 25 Mar 2019 11:47
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:43 AM

Quant Time: Mar 25 12:21:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	789926	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1830264	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	1850609	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1475809	10.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	116712	0.840 ppbv	98
3) Chlorodifluoromethane	3.01	51	92362	1.019 ppbv	99
4) Chloromethane	3.17	50	48022	0.978 ppbv	95
5) Vinyl Chloride	3.29	62	47220	0.932 ppbv	96
6) Bromomethane	3.51	94	30997	1.030 ppbv	98
7) Chloroethane	3.60	64	16693	0.943 ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	127181	1.075 ppbv	99
9) Propene	3.03	41	37538	0.927 ppbv	99
10) Heptane	8.25	43	101400	1.010 ppbv	100
11) Trichlorofluoromethane	4.00	101	145489	1.052 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	97406	1.061 ppbv	100
13) Ethanol	3.65	45	9947	0.516 ppbv	75
14) Bromoethene	3.79	108	36841	0.963 ppbv	100
15) Acetone	3.90	43	99581	0.811 ppbv	100
16) 1,3-Butadiene	3.36	39	35031	0.878 ppbv	96
17) tert-Butyl alcohol	4.37	59	18743	1.085 ppbv	99
18) 1,1-Dichloroethene	4.35	96	40052	0.954 ppbv	87
19) Isopropyl Alcohol	4.03	45	68258	1.169 ppbv #	97
20) Methylene Chloride	4.41	84	44217	1.104 ppbv #	85
21) Allyl Chloride	4.47	41	58340	0.979 ppbv	97
22) trans-1,2-Dichloroethene	4.96	96	43441	1.068 ppbv	99
23) Vinyl Acetate	5.15	43	133789	0.942 ppbv #	98
24) 1,1-Dichloroethane	5.09	63	105351	1.027 ppbv	100
25) Ethyl Acetate	5.77	43	179519	1.006 ppbv	100
26) Hexane	5.78	57	79934	1.002 ppbv	97
27) Carbon Disulfide	4.62	76	82927	0.903 ppbv #	92
28) Methyl tert-Butyl Ether	5.12	73	109430	0.923 ppbv	96
29) Chloroform	5.84	83	136577	1.045 ppbv	91
30) Cyclohexane	7.25	84	59813	0.935 ppbv	96
31) cis-1,2-Dichloroethene	5.64	61	74211	0.930 ppbv	96
32) 1,1,1-Trichloroethane	6.62	97	129496	1.009 ppbv	99
34) 2-Butanone	5.33	43	115471	0.961 ppbv	96
35) Carbon Tetrachloride	7.13	117	131205	1.017 ppbv	98
36) Benzene	7.00	78	154867	0.945 ppbv	97
37) 1,2-Dichloroethane	6.41	62	108559	1.048 ppbv	98
38) Trichloroethene	7.96	130	61905	0.999 ppbv	91
39) 1,2-Dichloropropane	7.73	63	59163	0.964 ppbv	93
40) 1,4-Dioxane	7.98	88	20529	0.950 ppbv	96
41) Tetrahydrofuran	6.16	42	58888	0.918 ppbv	98
42) Bromodichloromethane	7.91	83	135161	0.973 ppbv	95
43) Methyl Methacrylate	8.14	69	60812	0.953 ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	269194	0.992	ppbv	97
45) t-1,3-Dichloropropene	9.42	75	63897	0.811	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	80043	0.863	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	68808	1.015	ppbv	99
48) Dibromochloromethane	10.45	129	108805m	0.957	ppbv	
49) Bromoform	13.20	173	93607	0.868	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	162234	0.956	ppbv	96
51) 2-Hexanone	10.28	43	108431	0.828	ppbv #	99
52) Tetrachloroethene	11.37	164	59940	0.878	ppbv	94
53) Toluene	9.95	91	170944	0.918	ppbv	98
54) 1,2-Dibromoethane	10.76	107	102969m	0.899	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.27	131	86897	1.050	ppbv #	1
57) Chlorobenzene	12.30	112	147703	1.008	ppbv	95
58) Ethyl Benzene	12.86	91	245426	0.937	ppbv	96
59) m/p-Xylene	13.14	91	436018m	1.938	ppbv	
60) o-Xylene	13.85	91	219284	0.999	ppbv	98
61) Styrene	13.69	104	142017	0.924	ppbv	99
62) Isopropylbenzene	14.83	105	307115	1.006	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	164617	1.038	ppbv	99
64) n-propylbenzene	15.72	120	76393	0.989	ppbv	92
65) tert-Butylbenzene	16.91	119	272798	0.993	ppbv	96
66) Benzyl Chloride	17.16	91	102628	0.904	ppbv	97
67) sec-Butylbenzene	17.46	105	390958	1.004	ppbv	99
69) p-Isopropyltoluene	17.81	119	306266	0.963	ppbv	98
70) n-Butylbenzene	18.71	91	330378	0.974	ppbv	97
71) 2-Chlorotoluene	15.62	91	230391m	0.970	ppbv	
72) 4-Ethyltoluene	16.00	105	235674	0.946	ppbv	98
73) 1,3,5-Trimethylbenzene	16.16	105	236472	0.974	ppbv	89
74) 1,2,4-Trimethylbenzene	16.92	105	253724	0.987	ppbv	91
75) 1,3-Dichlorobenzene	17.16	146	158901	1.048	ppbv	98
76) 1,4-Dichlorobenzene	17.31	146	153605m	1.047	ppbv	
77) 1,2-Dichlorobenzene	17.99	146	142103	0.990	ppbv	98
78) Hexachloro-1,3-Butadiene	23.54	225	96656m	1.123	ppbv	
79) Naphthalene	22.42	128	185384	0.748	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	35764	0.304	ppbv	96
81) 1,2,4-Trichlorobenzene	22.14	180	109387m	0.866	ppbv	

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

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