

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
 Data File : VL033274.D
 Acq On : 12 Mar 2019 3:36
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 5:05:39 AM

Quant Time: Mar 12 05:07:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 12 05:07:00 2019
 QLast Update : Tue Mar 12 04:49:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	929991	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2157509	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2188379	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1697834	9.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	197445	1.024	ppbv	96
3) Chlorodifluoromethane	3.01	51	117097	0.999	ppbv	99
4) Chloromethane	3.17	50	59730	0.969	ppbv	99
5) Vinyl Chloride	3.29	62	57401	0.963	ppbv	95
6) Bromomethane	3.51	94	37090	0.981	ppbv	97
7) Chloroethane	3.60	64	22492	1.019	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	152596	1.000	ppbv	97
9) Propene	3.04	41	51686	0.993	ppbv	100
10) Heptane	8.25	43	130041	1.053	ppbv	100
11) Trichlorofluoromethane	4.00	101	263395	1.631	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	111912	1.102	ppbv	98
13) Ethanol	3.66	45	20894	1.437	ppbv	95
14) Bromoethene	3.79	108	70790	1.694	ppbv	98
15) Acetone	3.91	43	214997	1.857	ppbv	100
16) 1,3-Butadiene	3.36	39	44915	0.899	ppbv	95
17) tert-Butyl alcohol	4.37	59	19722m	1.085	ppbv	
18) 1,1-Dichloroethene	4.35	96	46466	1.044	ppbv	93
19) Isopropyl Alcohol	4.03	45	123189	1.774	ppbv #	98
20) Methylene Chloride	4.41	84	51613	1.129	ppbv	91
21) Allyl Chloride	4.48	41	68155	1.018	ppbv	93
22) trans-1,2-Dichloroethene	4.96	96	51270	1.081	ppbv	91
23) Vinyl Acetate	5.16	43	177447	1.106	ppbv #	99
24) 1,1-Dichloroethane	5.09	63	130518	1.072	ppbv	97
25) Ethyl Acetate	5.78	43	234745	1.108	ppbv	98
26) Hexane	5.78	57	113164m	1.133	ppbv	
27) Carbon Disulfide	4.62	76	105891	1.047	ppbv	97
28) Methyl tert-Butyl Ether	5.12	73	147168	1.117	ppbv	98
29) Chloroform	5.85	83	165530	1.090	ppbv	93
30) Cyclohexane	7.25	84	80871	1.078	ppbv #	71
31) cis-1,2-Dichloroethene	5.64	61	101212	1.073	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	153341	1.071	ppbv	98
34) 2-Butanone	5.33	43	151699	1.134	ppbv	99
35) Carbon Tetrachloride	7.14	117	155513m	1.052	ppbv	
36) Benzene	7.00	78	207305	1.087	ppbv	98
37) 1,2-Dichloroethane	6.41	62	126141	1.036	ppbv	99
38) Trichloroethene	7.96	130	77590	1.075	ppbv	95
39) 1,2-Dichloropropane	7.73	63	76743	1.052	ppbv	97
40) 1,4-Dioxane	7.98	88	32285m	1.207	ppbv	
41) Tetrahydrofuran	6.17	42	82517	1.090	ppbv	97
42) Bromodichloromethane	7.91	83	165705	1.020	ppbv	95
43) Methyl Methacrylate	8.14	69	77272	1.037	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	357653	1.087	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	86528	0.958	ppbv	95
46) cis-1,3-Dichloropropene	8.83	75	109603	1.030	ppbv	94
47) 1,1,2-Trichloroethane	9.61	97	84142	1.074	ppbv	95
48) Dibromochloromethane	10.45	129	129771	1.011	ppbv	100
49) Bromoform	13.20	173	100182	0.870	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	212620	1.079	ppbv	99
51) 2-Hexanone	10.29	43	156209m	1.063	ppbv	
52) Tetrachloroethene	11.37	164	74391m	1.067	ppbv	
53) Toluene	9.95	91	230676	1.083	ppbv	100
54) 1,2-Dibromoethane	10.76	107	123829	1.008	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.27	131	98115	1.073	ppbv #	1
57) Chlorobenzene	12.30	112	177233	1.101	ppbv #	97
58) Ethyl Benzene	12.86	91	313730	1.057	ppbv	99
59) m/p-Xylene	13.13	91	526073m	1.960	ppbv	
60) o-Xylene	13.85	91	254373	0.982	ppbv	98
61) Styrene	13.69	104	174446	0.986	ppbv	98
62) Isopropylbenzene	14.83	105	359704	1.041	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.84	83	172166	1.031	ppbv	100
64) n-propylbenzene	15.73	120	85662m	1.012	ppbv	
65) tert-Butylbenzene	16.90	119	302871	1.041	ppbv	99
66) Benzyl Chloride	17.15	91	84086	0.775	ppbv	100
67) sec-Butylbenzene	17.46	105	427263m	1.035	ppbv	
69) p-Isopropyltoluene	17.82	119	337083	1.005	ppbv	98
70) n-Butylbenzene	18.72	91	353204	0.971	ppbv	99
71) 2-Chlorotoluene	15.62	91	262402	1.016	ppbv	100
72) 4-Ethyltoluene	16.00	105	268813	0.998	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	247163	0.964	ppbv	95
74) 1,2,4-Trimethylbenzene	16.92	105	257856	0.964	ppbv	93
75) 1,3-Dichlorobenzene	17.16	146	153771	0.975	ppbv	95
76) 1,4-Dichlorobenzene	17.31	146	146027	0.943	ppbv	93
77) 1,2-Dichlorobenzene	17.99	146	153032	1.005	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	125180	1.085	ppbv	99
79) Naphthalene	22.42	128	185930	0.637	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	5177m	0.073	ppbv	
81) 1,2,4-Trichlorobenzene	22.14	180	114916	0.761	ppbv	95

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

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