

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020419\
 Data File : VL033152.D
 Acq On : 4 Feb 2019 11:20
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

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

Quant Time: Feb 04 12:05:32 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 2019
 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	5.76	49	1497053	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3442749	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	4270034	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	2641756	8.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	81.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	238523	1.062	ppbv	99
3) Chlorodifluoromethane	3.01	51	156078	0.648	ppbv	98
4) Chloromethane	3.17	50	85256	0.615	ppbv	95
5) Vinyl Chloride	3.29	62	79401	0.524	ppbv	89
6) Bromomethane	3.51	94	47545	0.712	ppbv	85
7) Chloroethane	3.60	64	27415	0.670	ppbv #	76
8) Dichlorotetrafluoroethane	3.22	85	190350	0.686	ppbv	98
9) Propene	3.04	41	76992	0.626	ppbv	100
10) Heptane	8.24	43	247994m	1.082	ppbv	
11) Trichlorofluoromethane	4.00	101	196429	0.831	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	131545	0.875	ppbv	97
13) Ethanol	3.65	45	41379m	1.189	ppbv	
14) Bromoethene	3.79	108	57387	0.754	ppbv	97
15) Acetone	3.90	43	177404	0.935	ppbv	100
16) 1,3-Butadiene	3.36	39	63474	0.698	ppbv	94
17) tert-Butyl alcohol	4.37	59	37768	0.825	ppbv	100
18) 1,1-Dichloroethene	4.35	96	58008	0.799	ppbv	93
19) Isopropyl Alcohol	4.03	45	124912	0.861	ppbv #	47
20) Methylene Chloride	4.41	84	60965	0.830	ppbv	98
21) Allyl Chloride	4.48	41	95635	0.784	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	56376	0.833	ppbv	96
23) Vinyl Acetate	5.15	43	271761	0.825	ppbv #	97
24) 1,1-Dichloroethane	5.09	63	184095	0.837	ppbv	99
25) Ethyl Acetate	5.77	43	399575	0.983	ppbv	99
26) Hexane	5.78	57	188151	0.945	ppbv	99
27) Carbon Disulfide	4.62	76	131410	0.818	ppbv #	88
28) Methyl tert-Butyl Ether	5.12	73	236751	0.828	ppbv	99
29) Chloroform	5.84	83	262733	0.977	ppbv	99
30) Cyclohexane	7.25	84	157558	1.021	ppbv #	79
31) cis-1,2-Dichloroethene	5.64	61	179952	0.990	ppbv	95
32) 1,1,1-Trichloroethane	6.62	97	244407	0.881	ppbv #	83
34) 2-Butanone	5.33	43	273150	1.038	ppbv	98
35) Carbon Tetrachloride	7.13	117	238669	0.924	ppbv	94
36) Benzene	7.00	78	378768	0.981	ppbv	96
37) 1,2-Dichloroethane	6.41	62	196144	0.998	ppbv	100
38) Trichloroethene	7.96	130	134195	0.863	ppbv	96
39) 1,2-Dichloropropane	7.73	63	142663	1.008	ppbv	95
40) 1,4-Dioxane	7.97	88	63879m	1.282	ppbv	
41) Tetrahydrofuran	6.16	42	152212	0.963	ppbv	98
42) Bromodichloromethane	7.91	83	276368	0.986	ppbv	92
43) Methyl Methacrylate	8.14	69	147330	1.089	ppbv	98

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

44) 2,2,4-Trimethylpentane	7.99	57	647734	1.040	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	204923	1.254	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	244397	1.247	ppbv	91
47) 1,1,2-Trichloroethane	9.61	97	190218	1.474	ppbv	97
48) Dibromochloromethane	10.44	129	262835	1.222	ppbv	99
49) Bromoform	13.20	173	210818	1.181	ppbv	98
50) 4-Methyl-2-Pentanone	8.88	43	524422	1.534	ppbv	98
51) 2-Hexanone	10.28	43	449585	1.476	ppbv #	99
52) Tetrachloroethene	11.37	164	149503	1.021	ppbv	95
53) Toluene	9.94	91	541468	1.225	ppbv	98
54) 1,2-Dibromoethane	10.76	107	277723	1.144	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.28	131	201406	1.060	ppbv #	1
57) Chlorobenzene	12.30	112	402897	1.072	ppbv	96
58) Ethyl Benzene	12.86	91	723765	1.033	ppbv	97
59) m/p-Xylene	13.12	91	1224624m	2.144	ppbv	
60) o-Xylene	13.85	91	488162	0.884	ppbv	95
61) Styrene	13.68	104	438092	1.034	ppbv	98
62) Isopropylbenzene	14.83	105	675475	0.860	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	344845	0.827	ppbv	98
64) n-propylbenzene	15.72	120	174011m	0.865	ppbv	
65) tert-Butylbenzene	16.91	119	632236	0.956	ppbv	96
66) Benzyl Chloride	17.15	91	227425	0.768	ppbv	97
67) sec-Butylbenzene	17.46	105	897884	0.956	ppbv	99
69) p-Isopropyltoluene	17.82	119	734001	0.992	ppbv	98
70) n-Butylbenzene	18.72	91	802035	1.065	ppbv	98
71) 2-Chlorotoluene	15.62	91	534702	0.894	ppbv	98
72) 4-Ethyltoluene	16.00	105	566019	0.914	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	559669	1.002	ppbv	97
74) 1,2,4-Trimethylbenzene	16.92	105	574098	1.044	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	314280	0.959	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	309549	0.946	ppbv	98
77) 1,2-Dichlorobenzene	17.99	146	307892	0.974	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	150640m	1.029	ppbv	
79) Naphthalene	22.42	128	678320	1.881	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	355142	3.339	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	309912m	1.633	ppbv	

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

