

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
 Data File : VL031295.D
 Acq On : 21 Dec 2017 7:48
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/22/2017 4:55:14 PM

Quant Time: Dec 22 07:27:25 2017

Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017

QLast Update : Thu Dec 14 04:29:58 2017

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1298932	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.46	114	3270332	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.42	117	3531393m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2527326	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.18	85	2258155	20.58	ppbv	100
3) Chlorodifluoromethane	3.11	51	1384788	9.38	ppbv	98
4) Chloromethane	3.28	50	851897	10.68	ppbv	99
5) Vinyl Chloride	3.40	62	814636	9.87	ppbv	99
6) Bromomethane	3.63	94	532990	10.90	ppbv	99
7) Chloroethane	3.72	64	323640	10.59	ppbv	99
8) Dichlorotetrafluoroethane	3.32	85	1943974	12.76	ppbv	97
9) Propene	3.14	41	705262	9.73	ppbv	98
10) Heptane	8.41	43	2068830	9.38	ppbv	99
11) Trichlorofluoromethane	4.13	101	2055368	11.40	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.68	101	1284503	10.16	ppbv	96
13) Ethanol	3.77	45	150356	7.19	ppbv	100
14) Bromoethene	3.91	108	606750	11.17	ppbv	98
15) Acetone	4.02	43	1717257	10.02	ppbv	100
16) 1,3-Butadiene	3.47	39	753312	10.21	ppbv	100
17) tert-Butyl alcohol	4.49	59	632441	6.57	ppbv	99
18) 1,1-Dichloroethene	4.48	96	606083	10.71	ppbv	94
19) Isopropyl Alcohol	4.15	45	928982	8.56	ppbv #	43
20) Methylene Chloride	4.54	84	549387	9.68	ppbv	95
21) Allyl Chloride	4.61	41	965147	9.57	ppbv	96
22) trans-1,2-Dichloroethene	5.10	96	668866	9.61	ppbv	97
23) Vinyl Acetate	5.30	43	2352494	8.52	ppbv	98
24) 1,1-Dichloroethane	5.23	63	1887591	9.41	ppbv	100
25) Ethyl Acetate	5.92	43	3184752	9.09	ppbv	99
26) Hexane	5.93	57	1495499	9.00	ppbv	98
27) Carbon Disulfide	4.76	76	1573642	9.46	ppbv	100
28) Methyl tert-Butyl Ether	5.25	73	1815688	8.36	ppbv	98
29) Chloroform	6.00	83	2280471	10.17	ppbv	100
30) Cyclohexane	7.41	84	1276684	8.73	ppbv	98
31) cis-1,2-Dichloroethene	5.79	61	1409164	9.35	ppbv	96
32) 1,1,1-Trichloroethane	6.78	97	2217092	9.25	ppbv	98
34) 2-Butanone	5.47	43	2169755	9.39	ppbv	98
35) Carbon Tetrachloride	7.30	117	2304172	9.84	ppbv	99
36) Benzene	7.17	78	3094993	8.93	ppbv	99
37) 1,2-Dichloroethane	6.57	62	1877307	9.82	ppbv	98
38) Trichloroethene	8.13	130	1196883	8.85	ppbv	97
39) 1,2-Dichloropropane	7.90	63	1150571	9.39	ppbv	97
40) 1,4-Dioxane	8.12	88	436212	9.86	ppbv #	97
41) Tetrahydrofuran	6.30	42	1209094	9.31	ppbv	99
42) Bromodichloromethane	8.08	83	2411330	10.70	ppbv	100
43) Methyl Methacrylate	8.30	69	1155351	9.95	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.16	57	4993874	9.54	ppbv	99
45) t-1,3-Dichloropropene	9.58	75	1550915	9.77	ppbv	99
46) cis-1,3-Dichloropropene	9.01	75	1889264	9.46	ppbv	100
47) 1,1,2-Trichloroethane	9.79	97	1304385	10.26	ppbv	98
48) Dibromochloromethane	10.63	129	2101993	10.59	ppbv	100
49) Bromoform	13.38	173	1535421	10.48	ppbv	100
50) 4-Methyl-2-Pentanone	9.04	43	2736299	9.68	ppbv	98
51) 2-Hexanone	10.44	43	2570055	9.53	ppbv #	97
52) Tetrachloroethene	11.55	164	1136271	8.89	ppbv	95
53) Toluene	10.12	91	3682648	9.79	ppbv	99
54) 1,2-Dibromoethane	10.94	107	1983022	10.29	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.46	131	1433964	9.10	ppbv #	64
57) Chlorobenzene	12.48	112	2798277	8.50	ppbv	99
58) Ethyl Benzene	13.04	91	5028459	8.62	ppbv	99
59) m/p-Xylene	13.33	91	7871477m	16.86	ppbv	
60) o-Xylene	14.03	91	3957750	8.41	ppbv	99
61) Styrene	13.86	104	1097397	8.13	ppbv	98
62) Isopropylbenzene	15.00	105	5252609	8.51	ppbv	99
63) 1,1,2,2-Tetrachloroethane	14.01	83	2623829	8.32	ppbv	98
64) n-propylbenzene	15.90	120	1387450	8.47	ppbv	92
65) tert-Butylbenzene	17.08	119	4528995	8.29	ppbv	99
66) Benzyl Chloride	17.33	91	357833	6.08	ppbv	97
67) sec-Butylbenzene	17.63	105	6385684	8.50	ppbv	99
69) p-Isopropyltoluene	17.99	119	5220184	8.33	ppbv	99
70) n-Butylbenzene	18.89	91	5287403	8.75	ppbv	99
71) 2-Chlorotoluene	15.79	91	3958336	8.65	ppbv	99
72) 4-Ethyltoluene	16.17	105	4311624	8.37	ppbv	99
73) 1,3,5-Trimethylbenzene	16.33	105	3861060	8.42	ppbv	99
74) 1,2,4-Trimethylbenzene	17.10	105	3955986	8.20	ppbv	97
75) 1,3-Dichlorobenzene	17.34	146	2464108	8.06	ppbv	98
76) 1,4-Dichlorobenzene	17.48	146	2489504	8.05	ppbv	99
77) 1,2-Dichlorobenzene	18.17	146	2478852	8.29	ppbv	98
78) Hexachloro-1,3-Butadiene	23.71	225	1046756	15.24	ppbv	99
79) Naphthalene	22.61	128	3101588	7.94	ppbv	99
80) Naphthalene, 2-methyl-	25.25	142	727157	5.00	ppbv	96
81) 1,2,4-Trichlorobenzene	22.34	180	1403377	7.72	ppbv	99

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

