

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031415.D
 Acq On : 22 Jan 2018 13:14
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:09 PM

Quant Time: Jan 22 16:41:54 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 18
 QLast Update : Thu Jan 18 06:41:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1490204	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3458774	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3381218m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2684675	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.17	85	1629271	5.66	ppbv	99
3) Chlorodifluoromethane	3.11	51	1622600	7.38	ppbv	99
4) Chloromethane	3.27	50	723916	7.31	ppbv	100
5) Vinyl Chloride	3.40	62	743526	7.26	ppbv	98
6) Bromomethane	3.62	94	527757	7.71	ppbv	98
7) Chloroethane	3.71	64	304172	7.59	ppbv	99
8) Dichlorotetrafluoroethane	3.32	85	1898156	7.20	ppbv	100
9) Propene	3.13	41	599255	7.39	ppbv	100
10) Heptane	8.40	43	1909259	7.84	ppbv	98
11) Trichlorofluoromethane	4.13	101	2299395	7.50	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.68	101	1456238	7.49	ppbv	100
13) Ethanol	3.76	45	151202	3.72	ppbv	98
14) Bromoethene	3.90	108	613673	7.66	ppbv	100
15) Acetone	4.02	43	1516369	6.13	ppbv	99
16) 1,3-Butadiene	3.47	39	740311	8.01	ppbv	94
17) tert-Butyl alcohol	4.48	59	834832	7.37	ppbv	100
18) 1,1-Dichloroethene	4.48	96	651801	7.64	ppbv	97
19) Isopropyl Alcohol	4.14	45	1022652	6.04	ppbv #	99
20) Methylene Chloride	4.53	84	588897	6.60	ppbv	97
21) Allyl Chloride	4.60	41	1039094	7.76	ppbv	99
22) trans-1,2-Dichloroethene	5.10	96	681731	7.50	ppbv	98
23) Vinyl Acetate	5.29	43	2113676	7.54	ppbv	99
24) 1,1-Dichloroethane	5.23	63	1741078	7.35	ppbv	100
25) Ethyl Acetate	5.91	43	3276139	7.76	ppbv	100
26) Hexane	5.93	57	1460188	8.26	ppbv	100
27) Carbon Disulfide	4.75	76	1834729	7.78	ppbv	100
28) Methyl tert-Butyl Ether	5.25	73	1667474	7.75	ppbv	100
29) Chloroform	5.99	83	2597742	8.55	ppbv	98
30) Cyclohexane	7.40	84	1187381	8.40	ppbv	100
31) cis-1,2-Dichloroethene	5.78	61	1444745	8.40	ppbv	98
32) 1,1,1-Trichloroethane	6.77	97	2579583	8.11	ppbv	99
34) 2-Butanone	5.47	43	1957056	6.80	ppbv	100
35) Carbon Tetrachloride	7.29	117	2741677	8.30	ppbv	97
36) Benzene	7.16	78	2961598	8.27	ppbv	99
37) 1,2-Dichloroethane	6.56	62	2243457	8.50	ppbv	100
38) Trichloroethene	8.13	130	1106456	7.45	ppbv	99
39) 1,2-Dichloropropane	7.90	63	997074	7.53	ppbv	96
40) 1,4-Dioxane	8.11	88	400939	6.03	ppbv	79
41) Tetrahydrofuran	6.30	42	1270318	8.70	ppbv	99
42) Bromodichloromethane	8.08	83	2484745	7.65	ppbv	97
43) Methyl Methacrylate	8.29	69	1054404	7.90	ppbv	99

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44) 2,2,4-Trimethylpentane	8.15	57	4482534	7.47	ppbv	100
45) t-1,3-Dichloropropene	9.58	75	1612836	8.77	ppbv	98
46) cis-1,3-Dichloropropene	9.00	75	1901344	8.36	ppbv	99
47) 1,1,2-Trichloroethane	9.78	97	1172006	7.52	ppbv	99
48) Dibromochloromethane	10.62	129	2153616	7.81	ppbv	100
49) Bromoform	13.38	173	1660113	7.66	ppbv	99
50) 4-Methyl-2-Pentanone	9.03	43	2671938	7.04	ppbv	100
51) 2-Hexanone	10.44	43	2604013	6.75	ppbv #	99
52) Tetrachloroethene	11.55	164	1046699	7.42	ppbv	97
53) Toluene	10.12	91	3354061	7.95	ppbv	99
54) 1,2-Dibromoethane	10.94	107	1889177	7.73	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.45	131	1461450	8.38	ppbv	99
57) Chlorobenzene	12.48	112	2652035	8.30	ppbv	98
58) Ethyl Benzene	13.03	91	4714002	8.53	ppbv	99
59) m/p-Xylene	13.32	91	7694874m	16.85	ppbv	
60) o-Xylene	14.02	91	3934572	8.44	ppbv	100
61) Styrene	13.86	104	979825	9.59	ppbv	99
62) Isopropylbenzene	15.00	105	4893327	8.35	ppbv	100
63) 1,1,2,2-Tetrachloroethane	14.01	83	2551578	7.26	ppbv	100
64) n-propylbenzene	15.90	120	1233565	8.38	ppbv	100
65) tert-Butylbenzene	17.08	119	4283260	8.22	ppbv	100
66) Benzyl Chloride	17.33	91	459333	9.39	ppbv	100
67) sec-Butylbenzene	17.63	105	5949081	8.04	ppbv	100
69) p-Isopropyltoluene	17.99	119	4849669	8.23	ppbv	100
70) n-Butylbenzene	18.88	91	4968987	8.09	ppbv	100
71) 2-Chlorotoluene	15.79	91	3712086	8.25	ppbv	99
72) 4-Ethyltoluene	16.17	105	4056857	8.52	ppbv	100
73) 1,3,5-Trimethylbenzene	16.33	105	3618929	8.55	ppbv	99
74) 1,2,4-Trimethylbenzene	17.10	105	3868934	8.39	ppbv #	89
75) 1,3-Dichlorobenzene	17.34	146	2353687	7.93	ppbv	100
76) 1,4-Dichlorobenzene	17.48	146	2369816	8.05	ppbv	100
77) 1,2-Dichlorobenzene	18.16	146	2272416	7.74	ppbv	100
78) Hexachloro-1,3-Butadiene	23.70	225	648786	6.88	ppbv	99
79) Naphthalene	22.61	128	2635747	11.75	ppbv	99
80) Naphthalene, 2-methyl-	25.24	142	949090	17.07	ppbv	99
81) 1,2,4-Trichlorobenzene	22.34	180	1315165	10.05	ppbv	100

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

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