

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031967.D
 Acq On : 3 May 2018 16:17
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050318

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:01:03 PM

Quant Time: May 04 03:35:12 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 0
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.88	49	1390769	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	3364219	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2855142m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.73	95	2163497	9.77	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	1221588	6.65	ppbv	99
3) Chlorodifluoromethane	3.10	51	1011173	7.73	ppbv	99
4) Chloromethane	3.25	50	585624	8.50	ppbv	100
5) Vinyl Chloride	3.38	62	609253	7.83	ppbv	98
6) Bromomethane	3.60	94	407131	8.04	ppbv	93
7) Chloroethane	3.69	64	247453	8.36	ppbv	88
8) Dichlorotetrafluoroethane	3.31	85	1435727	7.85	ppbv	99
9) Propene	3.12	41	464219	9.68	ppbv	99
10) Heptane	8.39	43	1456538	8.83	ppbv	99
11) Trichlorofluoromethane	4.10	101	1668512	7.52	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.66	101	1045886	6.69	ppbv	100
13) Ethanol	3.74	45	126175	7.05	ppbv #	100
14) Bromoethene	3.88	108	469110	8.12	ppbv	97
15) Acetone	4.00	43	1150130	5.85	ppbv	99
16) 1,3-Butadiene	3.45	39	552304	8.74	ppbv	96
17) tert-Butyl alcohol	4.46	59	481681	5.92	ppbv	99
18) 1,1-Dichloroethene	4.46	96	493485	7.20	ppbv	94
19) Isopropyl Alcohol	4.12	45	819494	7.71	ppbv	99
20) Methylene Chloride	4.51	84	446684	6.73	ppbv	95
21) Allyl Chloride	4.59	41	789025	7.04	ppbv	100
22) trans-1,2-Dichloroethene	5.08	96	573833	7.55	ppbv	98
23) Vinyl Acetate	5.27	43	1928196	8.58	ppbv	100
24) 1,1-Dichloroethane	5.21	63	1703941	8.13	ppbv	100
25) Ethyl Acetate	5.89	43	2932151	8.69	ppbv	100
26) Hexane	5.90	57	1377625	8.68	ppbv	99
27) Carbon Disulfide	4.73	76	1366016	7.68	ppbv	100
28) Methyl tert-Butyl Ether	5.23	73	1663871	8.53	ppbv	100
29) Chloroform	5.97	83	2160345	8.61	ppbv	100
30) Cyclohexane	7.38	84	1050879	9.94	ppbv	99
31) cis-1,2-Dichloroethene	5.76	61	1319112	9.09	ppbv	95
32) 1,1,1-Trichloroethane	6.75	97	2042823	8.83	ppbv	98
34) 2-Butanone	5.44	43	1777724	6.41	ppbv	100
35) Carbon Tetrachloride	7.27	117	2073221	7.78	ppbv	100
36) Benzene	7.14	78	2577874	8.13	ppbv	97
37) 1,2-Dichloroethane	6.54	62	1688577	7.41	ppbv	100
38) Trichloroethene	8.10	130	907059	7.54	ppbv	95
39) 1,2-Dichloropropane	7.87	63	821931	7.45	ppbv	96
40) 1,4-Dioxane	8.09	88	348646	7.01	ppbv #	1
41) Tetrahydrofuran	6.27	42	953028	7.88	ppbv	100
42) Bromodichloromethane	8.05	83	1879754	7.40	ppbv	100
43) Methyl Methacrylate	8.27	69	836934	7.84	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	3707758	7.25	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	1212164	8.56	ppbv	98
46) cis-1,3-Dichloropropene	8.98	75	1444848	8.27	ppbv	97
47) 1,1,2-Trichloroethane	9.76	97	955745	7.32	ppbv	98
48) Dibromochloromethane	10.60	129	1648930	7.88	ppbv	100
49) Bromoform	13.36	173	1340030	8.25	ppbv	99
50) 4-Methyl-2-Pentanone	9.01	43	1973800	7.53	ppbv	99
51) 2-Hexanone	10.41	43	1860261	7.80	ppbv #	100
52) Tetrachloroethene	11.52	164	899911	7.67	ppbv	98
53) Toluene	10.09	91	2762836	8.09	ppbv	100
54) 1,2-Dibromoethane	10.91	107	1501164	7.72	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.43	131	1147071	8.82	ppbv #	58
57) Chlorobenzene	12.45	112	2148667	8.73	ppbv	99
58) Ethyl Benzene	13.01	91	3901325	9.54	ppbv	98
59) m/p-Xylene	13.30	91	6294368m	18.15	ppbv	
60) o-Xylene	14.00	91	3235377	9.29	ppbv	99
61) Styrene	13.84	104	770674	10.92	ppbv	98
62) Isopropylbenzene	14.98	105	4059998	9.13	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.98	83	2177019	8.81	ppbv	100
64) n-propylbenzene	15.87	120	1057102	9.47	ppbv	97
65) tert-Butylbenzene	17.06	119	3617203	9.11	ppbv	99
66) Benzyl Chloride	17.31	91	431791	11.98	ppbv	99
67) sec-Butylbenzene	17.61	105	5204957	9.45	ppbv	100
69) p-Isopropyltoluene	17.96	119	4323547	9.76	ppbv	99
70) n-Butylbenzene	18.86	91	4526849	9.88	ppbv	99
71) 2-Chlorotoluene	15.77	91	3156013	9.69	ppbv	100
72) 4-Ethyltoluene	16.15	105	3440796	9.74	ppbv	99
73) 1,3,5-Trimethylbenzene	16.31	105	3134915	9.59	ppbv	97
74) 1,2,4-Trimethylbenzene	17.08	105	3368702	9.32	ppbv	97
75) 1,3-Dichlorobenzene	17.31	146	2103882	9.43	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	2138063	9.69	ppbv	99
77) 1,2-Dichlorobenzene	18.14	146	2132567	9.50	ppbv	100
78) Hexachloro-1,3-Butadiene	23.69	225	1320240	12.94	ppbv	100
79) Naphthalene	22.59	128	2940881	11.69	ppbv	99
80) Naphthalene, 2-methyl-	25.23	142	1057906	17.63	ppbv	99
81) 1,2,4-Trichlorobenzene	22.31	180	1493314	10.70	ppbv	99

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

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