

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031961.D
 Acq On : 3 May 2018 12:06
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:00:55 PM

Quant Time: May 03 12:37:02 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 03 12:37:02 2018
 QLast Update : Thu May 03 12:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.88	49	1283057	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.42	114	2694093	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2638498	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.73	95	1955489	9.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.20%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.16	85	461583	1.74	ppbv	98
3) Chlorodifluoromethane	3.10	51	276848	1.86	ppbv	95
4) Chloromethane	3.25	50	136786	1.80	ppbv	92
5) Vinyl Chloride	3.38	62	139431	1.63	ppbv	99
6) Bromomethane	3.61	94	94587	1.68	ppbv	95
7) Chloroethane	3.69	64	57608	1.68	ppbv	94
8) Dichlorotetrafluoroethane	3.31	85	372830	1.72	ppbv	100
9) Propene	3.12	41	102231	1.98	ppbv	99
10) Heptane	8.38	43	333708	1.99	ppbv	99
11) Trichlorofluoromethane	4.10	101	406402	1.57	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.66	101	316688	1.88	ppbv	97
13) Ethanol	3.75	45	34242	1.96	ppbv	99
14) Bromoethene	3.88	108	110784	1.74	ppbv	98
15) Acetone	4.00	43	373898	1.89	ppbv	97
16) 1,3-Butadiene	3.45	39	131926	1.81	ppbv	95
17) tert-Butyl alcohol	4.46	59	176599m	2.16	ppbv	
18) 1,1-Dichloroethene	4.46	96	144289	1.99	ppbv	89
19) Isopropyl Alcohol	4.13	45	195889	1.78	ppbv	100
20) Methylene Chloride	4.52	84	133928	1.86	ppbv	90
21) Allyl Chloride	4.59	41	222971	1.98	ppbv	100
22) trans-1,2-Dichloroethene	5.08	96	153671	2.05	ppbv	95
23) Vinyl Acetate	5.27	43	449392	2.24	ppbv	98
24) 1,1-Dichloroethane	5.21	63	405675	2.03	ppbv	97
25) Ethyl Acetate	5.89	43	670922	2.18	ppbv	99
26) Hexane	5.90	57	313089	2.18	ppbv	97
27) Carbon Disulfide	4.73	76	358804	1.92	ppbv #	94
28) Methyl tert-Butyl Ether	5.23	73	397977	2.25	ppbv	98
29) Chloroform	5.97	83	497350	2.04	ppbv	98
30) Cyclohexane	7.38	84	215721	2.10	ppbv	90
31) cis-1,2-Dichloroethene	5.76	61	301245	2.32	ppbv	99
32) 1,1,1-Trichloroethane	6.75	97	440651	1.86	ppbv	98
34) 2-Butanone	5.45	43	473429	2.53	ppbv	99
35) Carbon Tetrachloride	7.27	117	439640	1.88	ppbv	99
36) Benzene	7.13	78	531413	2.19	ppbv	96
37) 1,2-Dichloroethane	6.54	62	359185	1.99	ppbv	98
38) Trichloroethene	8.09	130	209689	2.13	ppbv	87
39) 1,2-Dichloropropane	7.87	63	188639	2.09	ppbv	98
40) 1,4-Dioxane	8.11	88	82232m	2.25	ppbv	
41) Tetrahydrofuran	6.28	42	224984	2.60	ppbv	96
42) Bromodichloromethane	8.05	83	434751	2.02	ppbv	100
43) Methyl Methacrylate	8.27	69	186772	2.19	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	898528	2.15	ppbv	99
45) t-1,3-Dichloropropene	9.55	75	242674	2.19	ppbv	93
46) cis-1,3-Dichloropropene	8.97	75	300290	2.12	ppbv	96
47) 1,1,2-Trichloroethane	9.75	97	221723	2.07	ppbv	96
48) Dibromochloromethane	10.59	129	368308	2.13	ppbv	98
49) Bromoform	13.35	173	272454	2.05	ppbv	99
50) 4-Methyl-2-Pentanone	9.01	43	455665	2.13	ppbv	99
51) 2-Hexanone	10.41	43	431136	2.31	ppbv #	98
52) Tetrachloroethene	11.52	164	200170	2.12	ppbv	96
53) Toluene	10.09	91	616778	2.28	ppbv	98
54) 1,2-Dibromoethane	10.90	107	338616	2.18	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.42	131	257774	2.08	ppbv #	1
57) Chlorobenzene	12.44	112	482694	2.16	ppbv	93
58) Ethyl Benzene	13.01	91	849440	2.32	ppbv	98
59) m/p-Xylene	13.30	91	1414541m	4.45	ppbv	
60) o-Xylene	13.99	91	713462	2.24	ppbv	98
61) Styrene	13.83	104	144410	2.38	ppbv	98
62) Isopropylbenzene	14.97	105	904048	2.21	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.98	83	482467	1.97	ppbv	99
64) n-propylbenzene	15.86	120	226558	2.28	ppbv	98
65) tert-Butylbenzene	17.05	119	799411	2.28	ppbv	99
66) Benzyl Chloride	17.30	91	60264	1.90	ppbv #	94
67) sec-Butylbenzene	17.60	105	1105926	2.19	ppbv	100
69) p-Isopropyltoluene	17.96	119	900758	2.30	ppbv	99
70) n-Butylbenzene	18.85	91	921970	2.26	ppbv	99
71) 2-Chlorotoluene	15.76	91	652901	2.21	ppbv	99
72) 4-Ethyltoluene	16.14	105	713619	2.20	ppbv	99
73) 1,3,5-Trimethylbenzene	16.30	105	653191	2.20	ppbv	98
74) 1,2,4-Trimethylbenzene	17.07	105	733514	2.21	ppbv	96
75) 1,3-Dichlorobenzene	17.31	146	436261	2.14	ppbv	99
76) 1,4-Dichlorobenzene	17.45	146	427813	2.17	ppbv	98
77) 1,2-Dichlorobenzene	18.14	146	435214	2.17	ppbv	98
78) Hexachloro-1,3-Butadiene	23.68	225	158248	2.05	ppbv	99
79) Naphthalene	22.58	128	490846m	2.63	ppbv	
80) Naphthalene, 2-methyl-	25.23	142	96044	2.63	ppbv	100
81) 1,2,4-Trichlorobenzene	22.31	180	268363	2.59	ppbv	99

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

