

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL060118\
 Data File : VL032045.D
 Acq On : 2 Jun 2018 8:26
 Operator : SY/AP
 Sample : VL0601ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0601ABS01

Manual Integrations
 APPROVED

MMDadoda
 6/4/2018 3:36:02 PM

Quant Time: Jun 03 14:16:42 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 01 02:31:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.86	49	1385945	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.41	114	2502298	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.36	117	2590377	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.70	95	1907304	9.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.30%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.15	85	1076443	6.46	ppbv	98
3) Chlorodifluoromethane	3.08	51	1273977	9.77	ppbv	98
4) Chloromethane	3.24	50	671959	10.16	ppbv	100
5) Vinyl Chloride	3.37	62	706304	9.62	ppbv	99
6) Bromomethane	3.59	94	494173	9.79	ppbv	96
7) Chloroethane	3.68	64	290660	9.30	ppbv	97
8) Dichlorotetrafluoroethane	3.29	85	1620191	8.92	ppbv	99
9) Propene	3.11	41	508336	11.93	ppbv	99
10) Heptane	8.36	43	1583086	10.48	ppbv	99
11) Trichlorofluoromethane	4.09	101	1966184	7.66	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.65	101	1609126	9.14	ppbv	99
13) Ethanol	3.73	45	158337	9.52	ppbv	100
14) Bromoethene	3.87	108	564764	9.13	ppbv	98
15) Acetone	3.98	43	1408650	8.43	ppbv	99
16) 1,3-Butadiene	3.44	39	611982	10.03	ppbv	90
17) tert-Butyl alcohol	4.45	59	722232	9.01	ppbv	99
18) 1,1-Dichloroethene	4.44	96	600422	7.85	ppbv	93
19) Isopropyl Alcohol	4.11	45	979563	8.85	ppbv #	99
20) Methylene Chloride	4.50	84	547285	7.21	ppbv	97
21) Allyl Chloride	4.57	41	1213972	10.31	ppbv	98
22) trans-1,2-Dichloroethene	5.06	96	937136	11.39	ppbv	96
23) Vinyl Acetate	5.25	43	2798200	12.37	ppbv	98
24) 1,1-Dichloroethane	5.19	63	2457670	11.16	ppbv	100
25) Ethyl Acetate	5.87	43	3412102	10.31	ppbv	100
26) Hexane	5.88	57	1609405	10.46	ppbv	99
27) Carbon Disulfide	4.71	76	2055586	10.20	ppbv	99
28) Methyl tert-Butyl Ether	5.21	73	2427527	12.75	ppbv	99
29) Chloroform	5.95	83	2511600	9.68	ppbv	100
30) Cyclohexane	7.36	84	976802	10.75	ppbv	96
31) cis-1,2-Dichloroethene	5.74	61	1522326	10.99	ppbv	98
32) 1,1,1-Trichloroethane	6.73	97	1978440	9.35	ppbv	99
34) 2-Butanone	5.43	43	2526666	12.84	ppbv	100
35) Carbon Tetrachloride	7.25	117	1969307	9.23	ppbv	99
36) Benzene	7.12	78	2374266	10.80	ppbv	99
37) 1,2-Dichloroethane	6.52	62	2005605	12.64	ppbv	99
38) Trichloroethene	8.08	130	977027	11.58	ppbv	98
39) 1,2-Dichloropropane	7.85	63	862175	10.64	ppbv	97
40) 1,4-Dioxane	8.07	88	364845	10.46	ppbv #	1
41) Tetrahydrofuran	6.25	42	1098013	12.99	ppbv	98
42) Bromodichloromethane	8.04	83	2016658	10.18	ppbv	100
43) Methyl Methacrylate	8.25	69	901016	11.77	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.11	57	4019696	10.68	ppbv	99
45) t-1,3-Dichloropropene	9.53	75	1304200	12.60	ppbv	96
46) cis-1,3-Dichloropropene	8.95	75	1611450	12.25	ppbv	98
47) 1,1,2-Trichloroethane	9.74	97	1025128	10.24	ppbv	99
48) Dibromochloromethane	10.58	129	1752404	10.57	ppbv	100
49) Bromoform	13.33	173	1383204	10.63	ppbv	99
50) 4-Methyl-2-Pentanone	8.99	43	2148752	11.23	ppbv	99
51) 2-Hexanone	10.39	43	1989126	11.59	ppbv #	99
52) Tetrachloroethene	11.50	164	929255	10.65	ppbv	98
53) Toluene	10.07	91	2889666	11.75	ppbv	100
54) 1,2-Dibromoethane	10.88	107	1583245	10.80	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.40	131	1212629	9.70	ppbv	96
57) Chlorobenzene	12.43	112	2230881	9.43	ppbv	99
58) Ethyl Benzene	12.99	91	4019977	11.04	ppbv	97
59) m/p-Xylene	13.28	91	6718335m	21.04	ppbv	
60) o-Xylene	13.98	91	3338554	10.43	ppbv	100
61) Styrene	13.81	104	805323	13.01	ppbv	99
62) Isopropylbenzene	14.95	105	4169261	10.21	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.96	83	2173802	8.76	ppbv	99
64) n-propylbenzene	15.85	120	1041920	10.22	ppbv	99
65) tert-Butylbenzene	17.03	119	3623667	10.15	ppbv	100
66) Benzyl Chloride	17.28	91	387536	9.77	ppbv	99
67) sec-Butylbenzene	17.58	105	5104045	9.85	ppbv	100
69) p-Isopropyltoluene	17.94	119	3963296	9.88	ppbv	100
70) n-Butylbenzene	18.84	91	3970037	9.60	ppbv	100
71) 2-Chlorotoluene	15.75	91	3196619	10.65	ppbv	100
72) 4-Ethyltoluene	16.13	105	3487353	10.95	ppbv	99
73) 1,3,5-Trimethylbenzene	16.29	105	3098597	10.54	ppbv	100
74) 1,2,4-Trimethylbenzene	17.05	105	3331715	10.06	ppbv	95
75) 1,3-Dichlorobenzene	17.30	146	2111483	9.28	ppbv	100
76) 1,4-Dichlorobenzene	17.43	146	2117451	9.76	ppbv	100
77) 1,2-Dichlorobenzene	18.12	146	1890698	8.78	ppbv	100
78) Hexachloro-1,3-Butadiene	23.66	225	693150	8.11	ppbv	99
79) Naphthalene	22.56	128	2265491	12.07	ppbv	100
80) Naphthalene, 2-methyl-	25.21	142	1265373	27.34	ppbv	100
81) 1,2,4-Trichlorobenzene	22.28	180	1198678	10.89	ppbv	100

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

