

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL070518\
 Data File : VL032203.D
 Acq On : 5 Jul 2018 12:17
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 7/16/2018 6:19:01 PM

Quant Time: Jul 16 18:04:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1499825	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	4109981	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	4037440m	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	3059364	9.91	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	1612852	8.17	ppbv	98
3) Chlorodifluoromethane	3.07	51	1515511	8.27	ppbv	97
4) Chloromethane	3.22	50	868916	8.88	ppbv	100
5) Vinyl Chloride	3.35	62	839680	8.50	ppbv	98
6) Bromomethane	3.58	94	487362	8.66	ppbv	100
7) Chloroethane	3.66	64	308546	8.83	ppbv	99
8) Dichlorotetrafluoroethane	3.28	85	1828953	8.30	ppbv	93
9) Propene	3.09	41	723424	8.47	ppbv	98
10) Heptane	8.34	43	2552735	10.25	ppbv	99
11) Trichlorofluoromethane	4.07	101	1806733	8.46	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.63	101	1200629	8.44	ppbv	92
13) Ethanol	3.71	45	195184	7.54	ppbv	95
14) Bromoethene	3.85	108	552328	8.16	ppbv	98
15) Acetone	3.97	43	1378486	7.86	ppbv	99
16) 1,3-Butadiene	3.42	39	880800	10.52	ppbv #	78
17) tert-Butyl alcohol	4.43	59	1164470	10.43	ppbv	99
18) 1,1-Dichloroethene	4.42	96	556313	8.17	ppbv	99
19) Isopropyl Alcohol	4.09	45	1166576	8.01	ppbv #	41
20) Methylene Chloride	4.48	84	477973	7.46	ppbv	94
21) Allyl Chloride	4.55	41	1000583	8.36	ppbv	98
22) trans-1,2-Dichloroethene	5.04	96	802007	11.27	ppbv	99
23) Vinyl Acetate	5.23	43	3049321	9.59	ppbv	98
24) 1,1-Dichloroethane	5.17	63	2354169	11.56	ppbv	99
25) Ethyl Acetate	5.85	43	3338906	9.20	ppbv	99
26) Hexane	5.86	57	1508896	9.03	ppbv	95
27) Carbon Disulfide	4.69	76	1455385	8.76	ppbv	99
28) Methyl tert-Butyl Ether	5.19	73	3274738	11.09	ppbv	100
29) Chloroform	5.93	83	2297970	9.45	ppbv	98
30) Cyclohexane	7.34	84	1636053	10.39	ppbv	99
31) cis-1,2-Dichloroethene	5.72	61	1598258	9.57	ppbv	96
32) 1,1,1-Trichloroethane	6.71	97	2731659	10.71	ppbv	98
34) 2-Butanone	5.41	43	2334777	8.95	ppbv	100
35) Carbon Tetrachloride	7.22	117	2673345	9.50	ppbv	98
36) Benzene	7.10	78	3779952	9.50	ppbv	98
37) 1,2-Dichloroethane	6.50	62	2125253	10.72	ppbv	97
38) Trichloroethene	8.05	130	1246219	8.02	ppbv	96
39) 1,2-Dichloropropane	7.83	63	1536458	9.79	ppbv	98
40) 1,4-Dioxane	8.04	88	542569m	8.82	ppbv	
41) Tetrahydrofuran	6.23	42	1598833	10.22	ppbv	99
42) Bromodichloromethane	8.01	83	2914338	9.38	ppbv	97
43) Methyl Methacrylate	8.23	69	1598758	9.70	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	6345165	9.12	ppbv	100
45) t-1,3-Dichloropropene	9.51	75	2088899	10.22	ppbv	99
46) cis-1,3-Dichloropropene	8.93	75	2436221	9.99	ppbv	98
47) 1,1,2-Trichloroethane	9.71	97	1509888	9.26	ppbv	98
48) Dibromochloromethane	10.55	129	2400989	9.51	ppbv	99
49) Bromoform	13.30	173	1979203	9.36	ppbv	100
50) 4-Methyl-2-Pentanone	8.96	43	3927100	9.19	ppbv	99
51) 2-Hexanone	10.37	43	3528222	9.96	ppbv	99
52) Tetrachloroethene	11.47	164	1175467	8.13	ppbv	98
53) Toluene	10.04	91	4508685	9.38	ppbv	99
54) 1,2-Dibromoethane	10.86	107	2318905	9.46	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.38	131	1739069	9.65	ppbv	95
57) Chlorobenzene	12.40	112	3227585	9.23	ppbv	95
58) Ethyl Benzene	12.96	91	6186645	9.51	ppbv	96
59) m/p-Xylene	13.25	91	9834105m	18.85	ppbv	
60) o-Xylene	13.95	91	4719615	9.07	ppbv	96
61) Styrene	13.78	104	4042411	9.48	ppbv	95
62) Isopropylbenzene	14.93	105	6852656	8.57	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.94	83	3327037	8.26	ppbv	100
64) n-propylbenzene	15.82	120	1771607	8.56	ppbv	86
65) tert-Butylbenzene	17.01	119	5593589	7.96	ppbv	93
66) Benzyl Chloride	17.26	91	3748154	8.63	ppbv	95
67) sec-Butylbenzene	17.56	105	8324467	8.09	ppbv	98
69) p-Isopropyltoluene	17.91	119	6653894	8.06	ppbv	96
70) n-Butylbenzene	18.81	91	7378591	8.56	ppbv	98
71) 2-Chlorotoluene	15.72	91	5469661	8.88	ppbv	95
72) 4-Ethyltoluene	16.10	105	5729241	8.53	ppbv	97
73) 1,3,5-Trimethylbenzene	16.26	105	5415723	8.56	ppbv	95
74) 1,2,4-Trimethylbenzene	17.02	105	5256220	8.23	ppbv	93
75) 1,3-Dichlorobenzene	17.27	146	2846822	7.84	ppbv	97
76) 1,4-Dichlorobenzene	17.41	146	2946422	8.00	ppbv	97
77) 1,2-Dichlorobenzene	18.09	146	2854372	7.86	ppbv	97
78) Hexachloro-1,3-Butadiene	23.64	225	905184	7.16	ppbv	100
79) Naphthalene	22.53	128	5211762	8.98	ppbv	99
80) Naphthalene, 2-methyl-	25.19	142	3007264	14.35	ppbv	98
81) 1,2,4-Trichlorobenzene	22.25	180	2408189	9.19	ppbv	100

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

