

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061319\
 Data File : VL033899.D
 Acq On : 13 Jun 2019 14:32
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 6/17/2019 12:37:02 AM

Quant Time: Jun 14 06:11:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	998904	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2515633	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2747645m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1975862	8.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	87.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1261512	7.783	ppbv	98
3) Chlorodifluoromethane	3.01	51	1137137	9.670	ppbv	99
4) Chloromethane	3.16	50	661180	9.857	ppbv	100
5) Vinyl Chloride	3.28	62	673065	10.815	ppbv	98
6) Bromomethane	3.51	94	426057	10.304	ppbv	92
7) Chloroethane	3.59	64	257678	10.469	ppbv	97
8) Dichlorotetrafluoroethane	3.21	85	1695161	9.786	ppbv	98
9) Propene	3.03	41	491597	11.172	ppbv	100
10) Heptane	8.23	43	1340852	12.056	ppbv	100
11) Trichlorofluoromethane	3.99	101	2083604	9.962	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1397211	9.885	ppbv	99
13) Ethanol	3.64	45	126111	8.809	ppbv	100
14) Bromoethene	3.78	108	579048	10.994	ppbv	100
15) Acetone	3.89	43	1293848	8.881	ppbv	99
16) 1,3-Butadiene	3.35	39	572395	10.323	ppbv	97
17) tert-Butyl alcohol	4.35	59	1377149	12.092	ppbv	100
18) 1,1-Dichloroethene	4.34	96	631887	10.584	ppbv	97
19) Isopropyl Alcohol	4.01	45	1039791	12.494	ppbv	99
20) Methylene Chloride	4.40	84	519052	9.136	ppbv	97
21) Allyl Chloride	4.47	41	910571	11.003	ppbv	99
22) trans-1,2-Dichloroethene	4.95	96	653134	10.378	ppbv	98
23) Vinyl Acetate	5.14	43	1896037	11.197	ppbv	99
24) 1,1-Dichloroethane	5.08	63	1351591	10.262	ppbv	99
25) Ethyl Acetate	5.76	43	2285060	10.299	ppbv	99
26) Hexane	5.77	57	1000054	9.900	ppbv	100
27) Carbon Disulfide	4.61	76	1594271	11.360	ppbv	99
28) Methyl tert-Butyl Ether	5.10	73	1806045	11.823	ppbv	100
29) Chloroform	5.84	83	1741644	10.067	ppbv	98
30) Cyclohexane	7.23	84	900873	12.622	ppbv	99
31) cis-1,2-Dichloroethene	5.63	61	1056791	11.930	ppbv	98
32) 1,1,1-Trichloroethane	6.61	97	1820932	10.911	ppbv	100
34) 2-Butanone	5.32	43	1483777	10.455	ppbv	99
35) Carbon Tetrachloride	7.12	117	2079683	10.700	ppbv	99
36) Benzene	6.99	78	2230515	11.607	ppbv	100
37) 1,2-Dichloroethane	6.40	62	1350733	9.504	ppbv	99
38) Trichloroethene	7.95	130	937893	12.535	ppbv	97
39) 1,2-Dichloropropane	7.72	63	834299	11.249	ppbv	93
40) 1,4-Dioxane	7.94	88	384222	12.702	ppbv	90
41) Tetrahydrofuran	6.14	42	838911	11.646	ppbv	99
42) Bromodichloromethane	7.91	83	2088116	10.995	ppbv	98
43) Methyl Methacrylate	8.12	69	895677	12.462	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3752452	10.981	ppbv	99
45) t-1,3-Dichloropropene	9.40	75	1183449	12.549	ppbv	99
46) cis-1,3-Dichloropropene	8.82	75	1319568	12.213	ppbv	99
47) 1,1,2-Trichloroethane	9.60	97	887732	10.040	ppbv	99
48) Dibromochloromethane	10.44	129	1690991	10.642	ppbv	100
49) Bromoform	13.19	173	1533841	10.935	ppbv	99
50) 4-Methyl-2-Pentanone	8.85	43	2253330	10.648	ppbv	100
51) 2-Hexanone	10.25	43	1834441	11.101	ppbv	99
52) Tetrachloroethene	11.36	164	810818	11.991	ppbv	98
53) Toluene	9.93	91	2464588	11.590	ppbv	99
54) 1,2-Dibromoethane	10.74	107	1405076	10.542	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.26	131	1162047	9.681	ppbv	98
57) Chlorobenzene	12.29	112	2006139	9.749	ppbv	97
58) Ethyl Benzene	12.85	91	3339003	10.779	ppbv	98
59) m/p-Xylene	13.14	91	5626483m	19.973	ppbv	
60) o-Xylene	13.84	91	2854475	9.814	ppbv	99
61) Styrene	13.67	104	2156408	11.457	ppbv	99
62) Isopropylbenzene	14.81	105	3937686	10.045	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.82	83	2037192	9.305	ppbv	99
64) n-propylbenzene	15.71	120	1012861	10.089	ppbv	98
65) tert-Butylbenzene	16.89	119	3604464	9.937	ppbv	100
66) Benzyl Chloride	17.14	91	2076038	11.294	ppbv	100
67) sec-Butylbenzene	17.44	105	5055114	9.934	ppbv	100
69) p-Isopropyltoluene	17.80	119	4316415	10.195	ppbv	100
70) n-Butylbenzene	18.70	91	4540256	9.791	ppbv	99
71) 2-Chlorotoluene	15.60	91	3054458	10.576	ppbv	100
72) 4-Ethyltoluene	15.98	105	3431722	10.368	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3261791	10.005	ppbv	98
74) 1,2,4-Trimethylbenzene	16.91	105	3547299	9.440	ppbv	98
75) 1,3-Dichlorobenzene	17.15	146	2095985	8.907	ppbv	99
76) 1,4-Dichlorobenzene	17.29	146	2081275	9.632	ppbv	100
77) 1,2-Dichlorobenzene	17.97	146	2023787	9.319	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	1349677	7.957	ppbv	99
79) Naphthalene	22.39	128	3123444	10.399	ppbv	99
80) Naphthalene, 2-methyl-	25.10	142	1182299	9.866	ppbv	99
81) 1,2,4-Trichlorobenzene	22.12	180	1848653	9.749	ppbv	99

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

