

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101719\
 Data File : VL034316.D
 Acq On : 17 Oct 2019 13:04
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 2:54:25 PM

Quant Time: Oct 18 04:55:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 18 04:55:33 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1081061	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2158773	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2375410m	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.50	95	1922000	9.55	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1356623	7.279	ppbv 99
3) Chlorodifluoromethane	2.97	51	1254924	9.904	ppbv 100
4) Chloromethane	3.13	50	764727	10.203	ppbv 97
5) Vinyl Chloride	3.25	62	701292	9.813	ppbv 96
6) Bromomethane	3.47	94	374866	10.712	ppbv 99
7) Chloroethane	3.55	64	260558	10.359	ppbv 97
8) Dichlorotetrafluoroethane	3.18	85	1577755	9.770	ppbv 98
9) Propene	2.99	41	576403	10.262	ppbv 97
10) Heptane	8.18	43	1559172	10.815	ppbv 99
11) Trichlorofluoromethane	3.95	101	1764391	9.971	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1184112	10.215	ppbv 99
13) Ethanol	3.60	45	129524	10.299	ppbv 96
14) Bromoethene	3.74	108	489143	10.717	ppbv 98
15) Acetone	3.85	43	1328807	8.594	ppbv 100
16) 1,3-Butadiene	3.32	39	658505	10.481	ppbv 98
17) tert-Butyl alcohol	4.30	59	1206536	12.226	ppbv 99
18) 1,1-Dichloroethene	4.30	96	527704	10.397	ppbv 96
19) Isopropyl Alcohol	3.97	45	1028455	11.923	ppbv # 99
20) Methylene Chloride	4.35	84	474892	8.495	ppbv 93
21) Allyl Chloride	4.42	41	919522	10.757	ppbv 99
22) trans-1,2-Dichloroethene	4.90	96	544518	10.755	ppbv 100
23) Vinyl Acetate	5.10	43	2132458	11.043	ppbv # 98
24) 1,1-Dichloroethane	5.03	63	1453106	10.139	ppbv 99
25) Ethyl Acetate	5.71	43	2621158	10.041	ppbv 100
26) Hexane	5.72	57	1113378	10.006	ppbv 99
27) Carbon Disulfide	4.56	76	1360068	11.774	ppbv 99
28) Methyl tert-Butyl Ether	5.05	73	1831314	10.875	ppbv 99
29) Chloroform	5.79	83	1776539	10.093	ppbv 95
30) Cyclohexane	7.18	84	895553	10.944	ppbv 96
31) cis-1,2-Dichloroethene	5.58	61	1214673	10.756	ppbv 98
32) 1,1,1-Trichloroethane	6.55	97	1775574	10.374	ppbv 100
34) 2-Butanone	5.27	43	1767144	10.015	ppbv 100
35) Carbon Tetrachloride	7.07	117	1861949	9.902	ppbv 97
36) Benzene	6.94	78	2115376	10.213	ppbv 98
37) 1,2-Dichloroethane	6.35	62	1541768	9.988	ppbv 100
38) Trichloroethene	7.89	130	834328	10.038	ppbv 95
39) 1,2-Dichloropropane	7.67	63	901764	10.111	ppbv 97
40) 1,4-Dioxane	7.88	88	331073	10.563	ppbv # 1
41) Tetrahydrofuran	6.08	42	1020409	10.420	ppbv 98
42) Bromodichloromethane	7.85	83	1952115	10.325	ppbv 99
43) Methyl Methacrylate	8.07	69	925322	10.801	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3816290	9.955	ppbv	99
45) t-1,3-Dichloropropene	9.35	75	1243843	11.917	ppbv	99
46) cis-1,3-Dichloropropene	8.77	75	1391239	11.602	ppbv	98
47) 1,1,2-Trichloroethane	9.55	97	913255	10.109	ppbv	98
48) Dibromochloromethane	10.38	129	1617706	10.916	ppbv	100
49) Bromoform	13.13	173	1483146	11.294	ppbv	100
50) 4-Methyl-2-Pentanone	8.80	43	2632664	10.422	ppbv	99
51) 2-Hexanone	10.20	43	2199187	10.620	ppbv #	98
52) Tetrachloroethene	11.30	164	796187	9.807	ppbv	97
53) Toluene	9.87	91	2442779	10.687	ppbv	99
54) 1,2-Dibromoethane	10.69	107	1363351	10.182	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.21	131	1073141	9.803	ppbv #	65
57) Chlorobenzene	12.23	112	1857893	9.375	ppbv	99
58) Ethyl Benzene	12.79	91	3385935	10.197	ppbv	99
59) m/p-Xylene	13.08	91	5552095m	19.298	ppbv	
60) o-Xylene	13.78	91	2838412	9.908	ppbv	100
61) Styrene	13.61	104	2119340	10.508	ppbv	99
62) Isopropylbenzene	14.75	105	3653830	9.662	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.76	83	2003988	8.705	ppbv	100
64) n-propylbenzene	15.65	120	970833	10.003	ppbv	100
65) tert-Butylbenzene	16.84	119	3266881m	9.746	ppbv	
66) Benzyl Chloride	17.09	91	1640033	12.389	ppbv	100
67) sec-Butylbenzene	17.39	105	4556649	9.660	ppbv	100
69) p-Isopropyltoluene	17.74	119	3809142	9.905	ppbv	100
70) n-Butylbenzene	18.64	91	4105945	9.813	ppbv	99
71) 2-Chlorotoluene	15.54	91	2905889	9.910	ppbv	99
72) 4-Ethyltoluene	15.93	105	3268421	10.149	ppbv	100
73) 1,3,5-Trimethylbenzene	16.09	105	3163211	9.914	ppbv	99
74) 1,2,4-Trimethylbenzene	16.86	105	3237707	9.730	ppbv	99
75) 1,3-Dichlorobenzene	17.09	146	1896579	9.493	ppbv	99
76) 1,4-Dichlorobenzene	17.24	146	1899143	9.732	ppbv	99
77) 1,2-Dichlorobenzene	17.91	146	1850802	9.449	ppbv	100
78) Hexachloro-1,3-Butadiene	23.48	225	1583361	9.773	ppbv	99
79) Naphthalene	22.32	128	2799010	11.515	ppbv	97
80) Naphthalene, 2-methyl-	25.06	142	1537029	21.876	ppbv	95
81) 1,2,4-Trichlorobenzene	22.05	180	1693383	10.666	ppbv	99

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

