

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033494.D
 Acq On : 28 Mar 2019 8:14
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:26:13 AM

Quant Time: Mar 28 08:49:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 28 08:49:08 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	812928	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2079947	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2183261m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1595067	9.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1049862	8.855	ppbv	97
3) Chlorodifluoromethane	3.01	51	912323	9.748	ppbv	96
4) Chloromethane	3.17	50	509068	10.279	ppbv	99
5) Vinyl Chloride	3.29	62	502083	10.318	ppbv	99
6) Bromomethane	3.51	94	326511	10.441	ppbv	89
7) Chloroethane	3.60	64	187035	10.328	ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	1220386	9.660	ppbv	96
9) Propene	3.03	41	425693	10.831	ppbv	99
10) Heptane	8.24	43	1116240	10.625	ppbv	99
11) Trichlorofluoromethane	4.00	101	1356790	9.285	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	913642	9.309	ppbv	97
13) Ethanol	3.64	45	127102	12.497	ppbv	67
14) Bromoethene	3.79	108	419308	10.712	ppbv	98
15) Acetone	3.89	43	870738	8.908	ppbv	97
16) 1,3-Butadiene	3.36	39	438864	11.320	ppbv	96
17) tert-Butyl alcohol	4.35	59	196668	10.943	ppbv	98
18) 1,1-Dichloroethene	4.35	96	417420	9.902	ppbv	97
19) Isopropyl Alcohol	4.02	45	726547	11.752	ppbv	100
20) Methylene Chloride	4.40	84	373857	9.010	ppbv	96
21) Allyl Chloride	4.47	41	634323	10.266	ppbv	97
22) trans-1,2-Dichloroethene	4.96	96	439630	9.995	ppbv	94
23) Vinyl Acetate	5.15	43	1564804	11.247	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1061892	10.048	ppbv	100
25) Ethyl Acetate	5.76	43	1877163	10.351	ppbv	99
26) Hexane	5.77	57	850318	10.545	ppbv	97
27) Carbon Disulfide	4.62	76	984311	10.265	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1303058	11.220	ppbv	100
29) Chloroform	5.85	83	1423683	10.300	ppbv	97
30) Cyclohexane	7.24	84	733607	11.500	ppbv	96
31) cis-1,2-Dichloroethene	5.64	61	846864	10.563	ppbv	95
32) 1,1,1-Trichloroethane	6.62	97	1356665	10.307	ppbv	99
34) 2-Butanone	5.32	43	1197105	9.580	ppbv	97
35) Carbon Tetrachloride	7.13	117	1381201	9.376	ppbv	99
36) Benzene	7.00	78	1820698	10.433	ppbv	97
37) 1,2-Dichloroethane	6.41	62	1036853	8.864	ppbv	98
38) Trichloroethene	7.96	130	734974	11.190	ppbv	99
39) 1,2-Dichloropropane	7.73	63	683532	9.998	ppbv	96
40) 1,4-Dioxane	7.95	88	275811	11.311	ppbv	# 1
41) Tetrahydrofuran	6.14	42	731742	10.646	ppbv	96
42) Bromodichloromethane	7.91	83	1512250	9.492	ppbv	99
43) Methyl Methacrylate	8.13	69	751027	10.598	ppbv	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033494.D
 Acq On : 28 Mar 2019 8:14
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:26:13 AM

Quant Time: Mar 28 08:49:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 28 08:49:08 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	2981710	9.777	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	982598	11.294	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1118545	11.009	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	790334	10.181	ppbv	99
48) Dibromochloromethane	10.44	129	1345092	10.272	ppbv	99
49) Bromoform	13.20	173	1207828	9.655	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	1827510	9.987	ppbv	98
51) 2-Hexanone	10.26	43	1450228	10.625	ppbv	98
52) Tetrachloroethene	11.37	164	723293	10.984	ppbv	95
53) Toluene	9.94	91	2241351	11.052	ppbv	99
54) 1,2-Dibromoethane	10.75	107	1253663	10.325	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	969032	9.684	ppbv	96
57) Chlorobenzene	12.30	112	1709700	10.085	ppbv	95
58) Ethyl Benzene	12.86	91	3120868	10.704	ppbv	99
59) m/p-Xylene	13.12	91	5109135m	19.619	ppbv	
60) o-Xylene	13.85	91	2472789	9.819	ppbv	97
61) Styrene	13.68	104	1952681	11.298	ppbv	97
62) Isopropylbenzene	14.82	105	3592692	10.074	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1696306	9.148	ppbv	99
64) n-propylbenzene	15.72	120	943715	10.429	ppbv	92
65) tert-Butylbenzene	16.90	119	3179553	10.118	ppbv	96
66) Benzyl Chloride	17.15	91	1656898	11.339	ppbv	99
67) sec-Butylbenzene	17.45	105	4467031	9.996	ppbv	100
69) p-Isopropyltoluene	17.81	119	3727419	10.244	ppbv	98
70) n-Butylbenzene	18.71	91	3856367	10.003	ppbv	99
71) 2-Chlorotoluene	15.61	91	2729735	10.067	ppbv	98
72) 4-Ethyltoluene	16.00	105	2979498	10.526	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	2824263	10.426	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	2885785	9.939	ppbv	93
75) 1,3-Dichlorobenzene	17.16	146	1731161	9.647	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	1736634	9.932	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1687449	9.911	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1250423	11.094	ppbv	99
79) Naphthalene	22.41	128	2962125	11.918	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1467245	17.590	ppbv	97
81) 1,2,4-Trichlorobenzene	22.13	180	1522145	11.041	ppbv	100

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

