

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032019\
 Data File : VL033390.D
 Acq On : 20 Mar 2019 14:02
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:26:22 AM

Quant Time: Mar 21 16:35:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	750130	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1676269	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1832783m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1289343	9.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1233137	9.348	ppbv	99
3) Chlorodifluoromethane	3.01	51	915744	10.636	ppbv	98
4) Chloromethane	3.17	50	491782	10.548	ppbv	98
5) Vinyl Chloride	3.29	62	487508	10.136	ppbv	98
6) Bromomethane	3.51	94	303602	10.619	ppbv	99
7) Chloroethane	3.60	64	181700	10.811	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1231484	10.966	ppbv	100
9) Propene	3.04	41	388860	10.118	ppbv	100
10) Heptane	8.25	43	1041201	10.922	ppbv	100
11) Trichlorofluoromethane	4.00	101	1382576	10.525	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	922710	10.587	ppbv	99
13) Ethanol	3.65	45	85524m	4.668	ppbv	
14) Bromoethene	3.79	108	385652	10.616	ppbv	100
15) Acetone	3.90	43	844642	7.244	ppbv	100
16) 1,3-Butadiene	3.36	39	436016	11.512	ppbv	93
17) tert-Butyl alcohol	4.35	59	170382	10.383	ppbv	99
18) 1,1-Dichloroethene	4.35	96	408283	10.245	ppbv	97
19) Isopropyl Alcohol	4.02	45	560988	10.114	ppbv #	99
20) Methylene Chloride	4.41	84	343874	9.042	ppbv	96
21) Allyl Chloride	4.47	41	618374	10.932	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	420423	10.886	ppbv	98
23) Vinyl Acetate	5.15	43	1394193	10.333	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1026387	10.533	ppbv	100
25) Ethyl Acetate	5.77	43	1746821	10.305	ppbv	100
26) Hexane	5.78	57	763238	10.072	ppbv	98
27) Carbon Disulfide	4.62	76	1016067	11.647	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1181844	10.500	ppbv	100
29) Chloroform	5.85	83	1324663	10.676	ppbv	99
30) Cyclohexane	7.25	84	641659	10.561	ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	804825	10.622	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1309868	10.752	ppbv	99
34) 2-Butanone	5.33	43	1101453	10.005	ppbv	98
35) Carbon Tetrachloride	7.13	117	1386768	11.735	ppbv	100
36) Benzene	7.00	78	1576483	10.509	ppbv	98
37) 1,2-Dichloroethane	6.41	62	1019723	10.750	ppbv	100
38) Trichloroethene	7.96	130	627065	11.046	ppbv	98
39) 1,2-Dichloropropane	7.74	63	605635	10.780	ppbv	96
40) 1,4-Dioxane	7.95	88	201787	10.200	ppbv	91
41) Tetrahydrofuran	6.14	42	633976	10.792	ppbv	99
42) Bromodichloromethane	7.91	83	1435997	11.291	ppbv	99
43) Methyl Methacrylate	8.14	69	652638	11.173	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2715554	10.929	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	887206	12.302	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	998554	11.759	ppbv	100
47) 1,1,2-Trichloroethane	9.62	97	671897	10.825	ppbv	94
48) Dibromochloromethane	10.45	129	1231205	11.827	ppbv	100
49) Bromoform	13.20	173	1130500	11.448	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	1692919	10.887	ppbv	99
51) 2-Hexanone	10.27	43	1323064	11.029	ppbv #	98
52) Tetrachloroethene	11.37	164	620122	9.922	ppbv	98
53) Toluene	9.95	91	1919040	11.258	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1106944	10.549	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	886953	10.818	ppbv	98
57) Chlorobenzene	12.30	112	1476482	10.172	ppbv	97
58) Ethyl Benzene	12.86	91	2716792	10.479	ppbv	99
59) m/p-Xylene	13.15	91	4635499m	20.804	ppbv	
60) o-Xylene	13.85	91	2306753	10.612	ppbv	99
61) Styrene	13.69	104	1652656	10.859	ppbv	99
62) Isopropylbenzene	14.83	105	3132179	10.365	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1587827	10.105	ppbv	100
64) n-propylbenzene	15.72	120	803731	10.510	ppbv	99
65) tert-Butylbenzene	16.91	119	2870541	10.551	ppbv	100
66) Benzyl Chloride	17.16	91	1438387	12.793	ppbv	99
67) sec-Butylbenzene	17.46	105	4058698	10.528	ppbv	99
69) p-Isopropyltoluene	17.82	119	3348887	10.632	ppbv	99
70) n-Butylbenzene	18.71	91	3517443	10.473	ppbv	100
71) 2-Chlorotoluene	15.62	91	2420949	10.291	ppbv	100
72) 4-Ethyltoluene	16.00	105	2601385	10.538	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2510105	10.438	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2625194	10.307	ppbv	94
75) 1,3-Dichlorobenzene	17.17	146	1504507	10.023	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1494757	10.285	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1468428	10.329	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	818007	9.597	ppbv	99
79) Naphthalene	22.41	128	2342660	9.545	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	919765	7.903	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	1224555	9.784	ppbv	100

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

