

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102419\
 Data File : VL034357.D
 Acq On : 24 Oct 2019 23:31
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/28/2019 9:44:01 AM

Quant Time: Oct 25 03:54:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 1
 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	5.69	49	917275	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1927074	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	2038661m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1621450	9.39	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.90%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.02	85	1537037	9.720	ppbv	100
3) Chlorodifluoromethane	2.96	51	997093	9.274	ppbv	100
4) Chloromethane	3.12	50	527649	8.297	ppbv	99
5) Vinyl Chloride	3.23	62	508095	8.379	ppbv	98
6) Bromomethane	3.46	94	296497	9.985	ppbv	95
7) Chloroethane	3.54	64	187603	8.790	ppbv	96
8) Dichlorotetrafluoroethane	3.17	85	1200239	8.759	ppbv	96
9) Propene	2.99	41	446881	9.376	ppbv	100
10) Heptane	8.16	43	1173449	9.593	ppbv	99
11) Trichlorofluoromethane	3.94	101	1300492	8.662	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	899505	9.145	ppbv	99
13) Ethanol	3.59	45	79608	7.460	ppbv	100
14) Bromoethene	3.73	108	381747	9.857	ppbv	99
15) Acetone	3.84	43	957068	7.295	ppbv	100
16) 1,3-Butadiene	3.31	39	488566	9.165	ppbv	100
17) tert-Butyl alcohol	4.29	59	704034	8.408	ppbv	99
18) 1,1-Dichloroethene	4.29	96	403713	9.374	ppbv	96
19) Isopropyl Alcohol	3.96	45	556509	7.603	ppbv	100
20) Methylene Chloride	4.34	84	354106	7.466	ppbv	98
21) Allyl Chloride	4.41	41	678989	9.361	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	407193	9.479	ppbv	98
23) Vinyl Acetate	5.08	43	1509522	9.213	ppbv	98
24) 1,1-Dichloroethane	5.02	63	1089475	8.959	ppbv	99
25) Ethyl Acetate	5.69	43	1916714	8.653	ppbv	99
26) Hexane	5.70	57	851308	9.017	ppbv	96
27) Carbon Disulfide	4.55	76	961385	9.809	ppbv	98
28) Methyl tert-Butyl Ether	5.04	73	1479130	10.352	ppbv	97
29) Chloroform	5.77	83	1362474	9.123	ppbv	99
30) Cyclohexane	7.16	84	702966	10.124	ppbv	96
31) cis-1,2-Dichloroethene	5.56	61	913956	9.539	ppbv	98
32) 1,1,1-Trichloroethane	6.54	97	1324290	9.119	ppbv	98
34) 2-Butanone	5.26	43	1307558	8.301	ppbv	97
35) Carbon Tetrachloride	7.05	117	1290611	7.689	ppbv	100
36) Benzene	6.92	78	1705752	9.225	ppbv	99
37) 1,2-Dichloroethane	6.33	62	1118210	8.115	ppbv	98
38) Trichloroethene	7.88	130	639344	8.617	ppbv	97
39) 1,2-Dichloropropane	7.65	63	688485	8.648	ppbv	94
40) 1,4-Dioxane	7.87	88	219601	7.849	ppbv	# 62
41) Tetrahydrofuran	6.07	42	786838	9.001	ppbv	96
42) Bromodichloromethane	7.83	83	1490780	8.833	ppbv	98
43) Methyl Methacrylate	8.05	69	707156	9.247	ppbv	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	2939107	8.588	ppbv	98
45) t-1,3-Dichloropropene	9.33	75	881017	9.456	ppbv	99
46) cis-1,3-Dichloropropene	8.75	75	1036721	9.685	ppbv	96
47) 1,1,2-Trichloroethane	9.53	97	713373	8.846	ppbv	96
48) Dibromochloromethane	10.36	129	1206454	9.120	ppbv	98
49) Bromoform	13.11	173	1079141	9.206	ppbv	99
50) 4-Methyl-2-Pentanone	8.78	43	1956685	8.677	ppbv	98
51) 2-Hexanone	10.18	43	1668187	9.025	ppbv #	98
52) Tetrachloroethene	11.28	164	648060	8.942	ppbv	94
53) Toluene	9.86	91	1971086	9.660	ppbv	100
54) 1,2-Dibromoethane	10.67	107	1112572	9.308	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.19	131	800560	8.521	ppbv #	59
57) Chlorobenzene	12.21	112	1453852	8.548	ppbv	99
58) Ethyl Benzene	12.77	91	2715261	9.528	ppbv	96
59) m/p-Xylene	13.06	91	4401110m	17.824	ppbv	
60) o-Xylene	13.76	91	2187686	8.898	ppbv	99
61) Styrene	13.59	104	1638452	9.465	ppbv	99
62) Isopropylbenzene	14.73	105	2964568	9.134	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.74	83	1556843	7.879	ppbv	99
64) n-propylbenzene	15.63	120	770183	9.246	ppbv	99
65) tert-Butylbenzene	16.82	119	2611138	9.077	ppbv	99
66) Benzyl Chloride	17.06	91	963779	8.483	ppbv	100
67) sec-Butylbenzene	17.37	105	3694773	9.127	ppbv	98
69) p-Isopropyltoluene	17.73	119	3053885	9.253	ppbv	99
70) n-Butylbenzene	18.62	91	3280132	9.134	ppbv	99
71) 2-Chlorotoluene	15.52	91	2342101	9.306	ppbv	100
72) 4-Ethyltoluene	15.91	105	2579078	9.331	ppbv	98
73) 1,3,5-Trimethylbenzene	16.07	105	2458617	8.978	ppbv	99
74) 1,2,4-Trimethylbenzene	16.83	105	2519773	8.823	ppbv	99
75) 1,3-Dichlorobenzene	17.08	146	1442143	8.411	ppbv	98
76) 1,4-Dichlorobenzene	17.21	146	1436024	8.574	ppbv	99
77) 1,2-Dichlorobenzene	17.90	146	1440506	8.569	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1247530	8.972	ppbv	100
79) Naphthalene	22.30	128	2316843	11.106	ppbv	98
80) Naphthalene, 2-methyl-	25.04	142	648187	10.749	ppbv	96
81) 1,2,4-Trichlorobenzene	22.02	180	1288737	9.459	ppbv	99

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

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