

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120919\
 Data File : VL034491.D
 Acq On : 10 Dec 2019 11:04
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

apatel
 12/11/2019 2:13:29 PM

Quant Time: Dec 10 14:03:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:03:11 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	920443	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1804941	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1981222	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1610899	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1682496	10.104	ppbv	99
3) Chlorodifluoromethane	2.96	51	1063212	9.258	ppbv	98
4) Chloromethane	3.11	50	562907	8.310	ppbv	98
5) Vinyl Chloride	3.23	62	541211	8.527	ppbv	90
6) Bromomethane	3.45	94	307630	9.633	ppbv	91
7) Chloroethane	3.54	64	200138	8.688	ppbv	93
8) Dichlorotetrafluoroethane	3.16	85	1308884	8.753	ppbv	99
9) Propene	2.98	41	407276	7.988	ppbv	100
10) Heptane	8.15	43	1127659	8.570	ppbv	99
11) Trichlorofluoromethane	3.93	101	1518726	9.164	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.48	101	999569	9.082	ppbv	98
13) Ethanol	3.58	45	119169	8.391	ppbv	95
14) Bromoethene	3.72	108	397268	8.878	ppbv	99
15) Acetone	3.83	43	1079952	8.194	ppbv	99
16) 1,3-Butadiene	3.30	39	505225	8.800	ppbv	99
17) tert-Butyl alcohol	4.28	59	1050922	9.486	ppbv	99
18) 1,1-Dichloroethene	4.28	96	432908	8.993	ppbv	99
19) Isopropyl Alcohol	3.95	45	871041	10.310	ppbv #	99
20) Methylene Chloride	4.33	84	384493	8.227	ppbv	93
21) Allyl Chloride	4.40	41	730469	9.249	ppbv	100
22) trans-1,2-Dichloroethene	4.88	96	444552	9.161	ppbv	97
23) Vinyl Acetate	5.07	43	1564458	9.086	ppbv	100
24) 1,1-Dichloroethane	5.01	63	1145757	8.663	ppbv	99
25) Ethyl Acetate	5.68	43	1949366	8.288	ppbv	99
26) Hexane	5.69	57	839870	8.310	ppbv	98
27) Carbon Disulfide	4.54	76	1099838	9.992	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1411132	8.421	ppbv	100
29) Chloroform	5.77	83	1393588	8.515	ppbv	98
30) Cyclohexane	7.15	84	668209	8.746	ppbv	99
31) cis-1,2-Dichloroethene	5.56	61	892235	8.543	ppbv	97
32) 1,1,1-Trichloroethane	6.53	97	1436365	9.361	ppbv	98
34) 2-Butanone	5.25	43	1295102	8.717	ppbv	97
35) Carbon Tetrachloride	7.04	117	1525161	9.828	ppbv	98
36) Benzene	6.91	78	1595428	8.842	ppbv	95
37) 1,2-Dichloroethane	6.32	62	1243866	9.280	ppbv	99
38) Trichloroethene	7.87	130	634086	8.564	ppbv	98
39) 1,2-Dichloropropane	7.64	63	661236	9.513	ppbv	90
40) 1,4-Dioxane	7.85	88	275149m	9.061	ppbv	
41) Tetrahydrofuran	6.06	42	726026	8.713	ppbv	98
42) Bromodichloromethane	7.82	83	1558652	9.298	ppbv	96
43) Methyl Methacrylate	8.04	69	687735	9.190	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	2937672	8.909	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	895690	9.333	ppbv	99
46) cis-1,3-Dichloropropene	8.74	75	1005837	9.330	ppbv	100
47) 1,1,2-Trichloroethane	9.52	97	691131	8.938	ppbv	95
48) Dibromochloromethane	10.35	129	1301602	9.804	ppbv	100
49) Bromoform	13.10	173	1169102	9.865	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	1967774	9.154	ppbv	99
51) 2-Hexanone	10.17	43	1646961	9.147	ppbv	96
52) Tetrachloroethene	11.28	164	605949	7.762	ppbv	97
53) Toluene	9.85	91	1851357	9.033	ppbv	100
54) 1,2-Dibromoethane	10.66	107	1099368	9.274	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.18	131	893279	9.217	ppbv	98
57) Chlorobenzene	12.20	112	1448665	8.089	ppbv	98
58) Ethyl Benzene	12.76	91	2601761	8.462	ppbv	95
59) m/p-Xylene	13.05	91	4383541m	16.494	ppbv	
60) o-Xylene	13.75	91	2245737	8.546	ppbv	99
61) Styrene	13.59	104	1568682	8.278	ppbv	99
62) Isopropylbenzene	14.73	105	2934421	8.444	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.74	83	1631733	8.261	ppbv	100
64) n-propylbenzene	15.62	120	762431	8.448	ppbv	96
65) tert-Butylbenzene	16.81	119	2646219	8.477	ppbv	99
66) Benzyl Chloride	17.06	91	1240159	10.326	ppbv	99
67) sec-Butylbenzene	17.36	105	3725077	8.530	ppbv	99
69) p-Isopropyltoluene	17.72	119	3090047	8.526	ppbv	99
70) n-Butylbenzene	18.61	91	3293666	8.446	ppbv	99
71) 2-Chlorotoluene	15.51	91	2337011	8.434	ppbv	99
72) 4-Ethyltoluene	15.90	105	2548717	8.394	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	2453488	8.255	ppbv	98
74) 1,2,4-Trimethylbenzene	16.83	105	2551522	8.082	ppbv #	91
75) 1,3-Dichlorobenzene	17.06	146	1450821	7.995	ppbv	100
76) 1,4-Dichlorobenzene	17.20	146	1421268	8.066	ppbv	99
77) 1,2-Dichlorobenzene	17.89	146	1422566	8.116	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1172381	7.785	ppbv	99
79) Naphthalene	22.29	128	2149291	7.853	ppbv	98
80) Naphthalene, 2-methyl-	25.03	142	600597	4.860	ppbv	99
81) 1,2,4-Trichlorobenzene	22.02	180	1212972	7.214	ppbv	99

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

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