

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034509.D
 Acq On : 30 Dec 2019 10:24
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

apatel
 1/2/2020 10:48:31 AM

Quant Time: Dec 30 14:21:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 1
 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	5.67	49	1115558	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2263181	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2336980	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1919246	9.76	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1364287	6.760	ppbv	99
3) Chlorodifluoromethane	2.95	51	1163964	8.363	ppbv	98
4) Chloromethane	3.11	50	702845	8.561	ppbv	98
5) Vinyl Chloride	3.23	62	662619	8.614	ppbv	93
6) Bromomethane	3.45	94	357638	9.241	ppbv	90
7) Chloroethane	3.53	64	246756	8.838	ppbv	98
8) Dichlorotetrafluoroethane	3.16	85	1551091	8.558	ppbv	99
9) Propene	2.98	41	481933	7.799	ppbv	98
10) Heptane	8.15	43	1295413	8.123	ppbv	98
11) Trichlorofluoromethane	3.93	101	1806173	8.993	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1191900	8.936	ppbv	100
13) Ethanol	3.58	45	119987	6.971	ppbv	95
14) Bromoethene	3.71	108	489965	9.034	ppbv	99
15) Acetone	3.83	43	1287721	8.061	ppbv	100
16) 1,3-Butadiene	3.30	39	608254	8.741	ppbv	98
17) tert-Butyl alcohol	4.28	59	1262254	9.401	ppbv	99
18) 1,1-Dichloroethene	4.27	96	530766	9.097	ppbv	93
19) Isopropyl Alcohol	3.95	45	980197	9.573	ppbv	100
20) Methylene Chloride	4.33	84	478677	8.450	ppbv	95
21) Allyl Chloride	4.40	41	901762	9.421	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	548496	9.326	ppbv	93
23) Vinyl Acetate	5.07	43	1812164	8.684	ppbv #	99
24) 1,1-Dichloroethane	5.01	63	1374742	8.576	ppbv	99
25) Ethyl Acetate	5.68	43	2356811	8.268	ppbv	99
26) Hexane	5.69	57	1000440	8.168	ppbv	98
27) Carbon Disulfide	4.54	76	1383501	10.370	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1762270	8.677	ppbv	99
29) Chloroform	5.76	83	1682448	8.482	ppbv	99
30) Cyclohexane	7.15	84	800337	8.643	ppbv	100
31) cis-1,2-Dichloroethene	5.55	61	1082809	8.555	ppbv	99
32) 1,1,1-Trichloroethane	6.52	97	1743323	9.374	ppbv	99
34) 2-Butanone	5.24	43	1518402	8.151	ppbv	100
35) Carbon Tetrachloride	7.04	117	1844360	9.478	ppbv	98
36) Benzene	6.91	78	1900091	8.399	ppbv	96
37) 1,2-Dichloroethane	6.32	62	1462285	8.700	ppbv	100
38) Trichloroethene	7.86	130	790038	8.510	ppbv	99
39) 1,2-Dichloropropane	7.64	63	783670	8.991	ppbv	96
40) 1,4-Dioxane	7.85	88	304011	7.985	ppbv #	98
41) Tetrahydrofuran	6.05	42	851759	8.152	ppbv	99
42) Bromodichloromethane	7.82	83	1868587	8.890	ppbv	96
43) Methyl Methacrylate	8.04	69	829370	8.839	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3413427	8.256	ppbv	99
45) t-1,3-Dichloropropene	9.31	75	1165726	9.687	ppbv	97
46) cis-1,3-Dichloropropene	8.74	75	1280626	9.474	ppbv	97
47) 1,1,2-Trichloroethane	9.51	97	820905	8.467	ppbv	96
48) Dibromochloromethane	10.35	129	1573909	9.454	ppbv	99
49) Bromoform	13.10	173	1427021	9.603	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	2244411	8.327	ppbv	100
51) 2-Hexanone	10.17	43	1898383	8.409	ppbv #	98
52) Tetrachloroethene	11.27	164	731973	7.478	ppbv	96
53) Toluene	9.84	91	2218646	8.634	ppbv	99
54) 1,2-Dibromoethane	10.65	107	1250482	8.413	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.17	131	1046678	9.156	ppbv	98
57) Chlorobenzene	12.19	112	1749373	8.281	ppbv	100
58) Ethyl Benzene	12.75	91	3050460	8.411	ppbv	99
59) m/p-Xylene	13.05	91	5131484m	16.369	ppbv	
60) o-Xylene	13.74	91	2588328	8.351	ppbv	100
61) Styrene	13.57	104	1905625	8.525	ppbv	100
62) Isopropylbenzene	14.72	105	3367219	8.214	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.73	83	1824290	7.830	ppbv	100
64) n-propylbenzene	15.62	120	880716	8.273	ppbv	98
65) tert-Butylbenzene	16.80	119	3021654	8.206	ppbv	100
66) Benzyl Chloride	17.05	91	1561511	11.023	ppbv	99
67) sec-Butylbenzene	17.35	105	4168876	8.093	ppbv	100
69) p-Isopropyltoluene	17.71	119	3479986	8.141	ppbv	100
70) n-Butylbenzene	18.61	91	3642078	7.918	ppbv	100
71) 2-Chlorotoluene	15.51	91	2640551	8.078	ppbv	99
72) 4-Ethyltoluene	15.89	105	2960795	8.267	ppbv	100
73) 1,3,5-Trimethylbenzene	16.05	105	2861546	8.163	ppbv	95
74) 1,2,4-Trimethylbenzene	16.82	105	2960204	7.949	ppbv	98
75) 1,3-Dichlorobenzene	17.06	146	1638944	7.657	ppbv	98
76) 1,4-Dichlorobenzene	17.20	146	1696587	8.162	ppbv	98
77) 1,2-Dichlorobenzene	17.88	146	1613348	7.804	ppbv	99
78) Hexachloro-1,3-Butadiene	23.44	225	1441641	8.116	ppbv	99
79) Naphthalene	22.28	128	2705146	8.380	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	962263	6.601	ppbv	95
81) 1,2,4-Trichlorobenzene	22.01	180	1612682	8.132	ppbv	99

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

