

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101821\
 Data File : VL037853.D
 Acq On : 18 Oct 2021 14:46
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Quant Time: Oct 19 08:40:12 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Mon Oct 04 17:43:54 2021

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 10/25/2021
 Supervised By : Mahesh Dadoda 10/27/2021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1359042	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4074546	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3508288m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2713465	11.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	1553662	7.157	ppbv 99
3) Chlorodifluoromethane	3.00	51	2535396	9.709	ppbv 99
4) Chloromethane	3.15	50	963488	10.074	ppbv 98
5) Vinyl Chloride	3.27	62	966892	11.028	ppbv 98
6) Bromomethane	3.48	94	492486	10.384	ppbv 99
7) Chloroethane	3.56	64	333861	10.356	ppbv 98
8) Dichlorotetrafluoroethane	3.20	85	2157527	10.056	ppbv 99
9) Propene	3.02	41	920746	9.583	ppbv 99
10) Heptane	8.13	43	2322285	10.642	ppbv 100
11) Trichlorofluoromethane	3.96	101	1988606	10.268	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1522388	10.374	ppbv 100
13) Ethanol	3.62	45	97888m	12.458	ppbv
14) Bromoethene	3.75	108	695848	10.785	ppbv 93
15) Acetone	3.86	43	1136665	9.317	ppbv 99
16) 1,3-Butadiene	3.34	39	914220	10.299	ppbv 97
17) tert-Butyl alcohol	4.29	59	1234101	9.822	ppbv 100
18) 1,1-Dichloroethene	4.30	96	695536	10.430	ppbv 97
19) Isopropyl Alcohol	3.97	45	785969m	10.355	ppbv
20) Methylene Chloride	4.35	84	578710	9.388	ppbv 97
21) Allyl Chloride	4.42	41	1081185	10.003	ppbv 97
22) trans-1,2-Dichloroethene	4.90	96	696065	10.382	ppbv 98
23) Vinyl Acetate	5.08	43	1786389	9.771	ppbv 98
24) 1,1-Dichloroethane	5.02	63	1431122	10.753	ppbv 99
25) Ethyl Acetate	5.69	43	3600565	10.517	ppbv 99
26) Hexane	5.70	57	1692627	10.041	ppbv 99
27) Carbon Disulfide	4.56	76	1721459	11.523	ppbv 98
28) Methyl tert-Butyl Ether	5.04	73	1422246	10.133	ppbv 99
29) Chloroform	5.76	83	2464506	10.228	ppbv 100
30) Cyclohexane	7.14	84	1450915	10.150	ppbv 97
31) cis-1,2-Dichloroethene	5.56	61	1564013	10.220	ppbv 96
32) 1,1,1-Trichloroethane	6.52	97	2354441	10.306	ppbv 99
34) 2-Butanone	5.25	43	1586926	9.647	ppbv 100
35) Carbon Tetrachloride	7.03	117	2463423	10.646	ppbv 98
36) Benzene	6.90	78	3546144	10.190	ppbv 98
37) 1,2-Dichloroethane	6.32	62	1714818	10.464	ppbv 100
38) Trichloroethene	7.85	130	1409651	10.253	ppbv 97
39) 1,2-Dichloropropane	7.62	63	1341019	10.244	ppbv 98
40) 1,4-Dioxane	7.84	88	339632	10.368	ppbv # 100
41) Tetrahydrofuran	6.06	42	826267	10.258	ppbv 99
42) Bromodichloromethane	7.80	83	2586316	10.745	ppbv 99
43) Methyl Methacrylate	8.02	69	1256505	11.054	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	5912965	10.113	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	972000	12.428	ppbv	97
46) cis-1,3-Dichloropropene	8.72	75	1313547	12.116	ppbv	99
47) 1,1,2-Trichloroethane	9.49	97	1449266	10.184	ppbv	97
48) Dibromochloromethane	10.32	129	2259835	11.139	ppbv	99
49) Bromoform	13.05	173	1841986	11.867	ppbv	98
50) 4-Methyl-2-Pentanone	8.75	43	2311917	10.797	ppbv	99
51) 2-Hexanone	10.14	43	1061904	11.108	ppbv #	99
52) Tetrachloroethene	11.23	164	1283549	9.480	ppbv	98
53) Toluene	9.82	91	4120868	10.684	ppbv	100
54) 1,2-Dibromoethane	10.62	107	2010880	10.461	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.14	131	1566979	10.789	ppbv	98
57) Chlorobenzene	12.16	112	2999453	10.422	ppbv	97
58) Ethyl Benzene	12.72	91	5247105	11.138	ppbv	100
59) m/p-Xylene	13.00	91	8676055m	21.455	ppbv	
60) o-Xylene	13.70	91	4153918	10.719	ppbv	100
61) Styrene	13.54	104	2322046	12.387	ppbv	97
62) Isopropylbenzene	14.68	105	5787128	10.706	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.69	83	2986300	9.986	ppbv	99
64) n-propylbenzene	15.57	120	1516320	11.249	ppbv	100
65) tert-Butylbenzene	16.75	119	5035832	10.587	ppbv	99
66) Benzyl Chloride	17.00	91	268185	11.424	ppbv #	99
67) sec-Butylbenzene	17.30	105	7049364	10.836	ppbv	100
69) p-Isopropyltoluene	17.66	119	5795122	11.018	ppbv	100
70) n-Butylbenzene	18.56	91	5589425	11.187	ppbv	99
71) 2-Chlorotoluene	15.46	91	4163789	10.908	ppbv	100
72) 4-Ethyltoluene	15.85	105	4848040	11.017	ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	4377096	10.951	ppbv	98
74) 1,2,4-Trimethylbenzene	16.77	105	4610711	10.985	ppbv	94
75) 1,3-Dichlorobenzene	17.00	146	2753768	10.589	ppbv	99
76) 1,4-Dichlorobenzene	17.15	146	2631587	10.608	ppbv	98
77) 1,2-Dichlorobenzene	17.82	146	2661700	10.655	ppbv	99
78) Hexachloro-1,3-Butadiene	23.38	225	1822466	8.935	ppbv	99
79) Naphthalene	22.20	128	2938773	11.432	ppbv	100
80) Naphthalene, 2-methyl-	24.97	142	621718	9.007	ppbv	98
81) 1,2,4-Trichlorobenzene	21.93	180	1805048	10.979	ppbv	99

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

