

Data Path : Y:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081821\
 Data File : VL037493.D
 Acq On : 18 Aug 2021 16:18
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 8/19/2021 5:58:02 PM

Quant Time: Aug 19 08:56:16 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 18 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1441866	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4272192	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3937787m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2911018	10.41	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1968229	8.508	ppbv	95
3) Chlorodifluoromethane	2.99	51	2542494	9.209	ppbv	99
4) Chloromethane	3.14	50	949204	9.621	ppbv	99
5) Vinyl Chloride	3.25	62	948191	9.380	ppbv	97
6) Bromomethane	3.47	94	524343	9.470	ppbv	99
7) Chloroethane	3.55	64	327446	9.491	ppbv	92
8) Dichlorotetrafluoroethane	3.18	85	2207752	9.244	ppbv	99
9) Propene	3.01	41	886357	8.972	ppbv	99
10) Heptane	8.11	43	2241125	9.856	ppbv	100
11) Trichlorofluoromethane	3.94	101	2029913	9.348	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1560659	9.794	ppbv	99
13) Ethanol	3.61	45	85907	8.937	ppbv	80
14) Bromoethene	3.73	108	696347	9.625	ppbv	99
15) Acetone	3.84	43	1202150	8.192	ppbv	99
16) 1,3-Butadiene	3.32	39	923106	9.807	ppbv	98
17) tert-Butyl alcohol	4.28	59	1401046	10.452	ppbv	100
18) 1,1-Dichloroethene	4.28	96	698642	9.651	ppbv	100
19) Isopropyl Alcohol	3.96	45	825307	9.817	ppbv #	99
20) Methylene Chloride	4.33	84	586200	7.979	ppbv	97
21) Allyl Chloride	4.40	41	1089138	9.138	ppbv	93
22) trans-1,2-Dichloroethene	4.88	96	726697	10.062	ppbv	97
23) Vinyl Acetate	5.06	43	1791048	8.281	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1438176	9.168	ppbv	99
25) Ethyl Acetate	5.67	43	3510289	9.423	ppbv	100
26) Hexane	5.68	57	1676208	9.203	ppbv	99
27) Carbon Disulfide	4.54	76	1738433	10.710	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1436856	8.214	ppbv	98
29) Chloroform	5.74	83	2457581	9.521	ppbv	98
30) Cyclohexane	7.12	84	1398849	9.218	ppbv	98
31) cis-1,2-Dichloroethene	5.54	61	1604095	9.731	ppbv	97
32) 1,1,1-Trichloroethane	6.50	97	2397835	9.455	ppbv	99
34) 2-Butanone	5.24	43	1504178	8.622	ppbv	96
35) Carbon Tetrachloride	7.01	117	2509001	9.937	ppbv	99
36) Benzene	6.88	78	3505784	9.762	ppbv	98
37) 1,2-Dichloroethane	6.29	62	1746496	9.818	ppbv	100
38) Trichloroethene	7.83	130	1394352	9.463	ppbv	98
39) 1,2-Dichloropropane	7.60	63	1339715	9.708	ppbv	96
40) 1,4-Dioxane	7.83	88	330878	9.787	ppbv #	100
41) Tetrahydrofuran	6.04	42	805917	9.590	ppbv	99
42) Bromodichloromethane	7.78	83	2628603	10.105	ppbv	94
43) Methyl Methacrylate	8.01	69	1243458	9.934	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	5812223	9.616	ppbv	100
45) t-1,3-Dichloropropene	9.27	75	1089114	11.558	ppbv	95
46) cis-1,3-Dichloropropene	8.69	75	1421727	10.816	ppbv	99
47) 1,1,2-Trichloroethane	9.46	97	1456549	9.768	ppbv	99
48) Dibromochloromethane	10.29	129	2296688	10.703	ppbv	100
49) Bromoform	13.03	173	1875968	11.091	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	2302429	10.116	ppbv	99
51) 2-Hexanone	10.13	43	1096987	10.479	ppbv #	98
52) Tetrachloroethene	11.21	164	1298959	8.826	ppbv	98
53) Toluene	9.80	91	4090901	9.976	ppbv	100
54) 1,2-Dibromoethane	10.60	107	2052655	9.861	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.11	131	1581150	9.636	ppbv	97
57) Chlorobenzene	12.13	112	3046820	9.324	ppbv	99
58) Ethyl Benzene	12.70	91	5343214	9.778	ppbv	99
59) m/p-Xylene	12.98	91	8958523m	18.910	ppbv	
60) o-Xylene	13.68	91	4088602	9.247	ppbv	99
61) Styrene	13.51	104	2361179	10.280	ppbv	100
62) Isopropylbenzene	14.65	105	5795637	9.287	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.66	83	3096335	9.422	ppbv	99
64) n-propylbenzene	15.55	120	1522734	9.588	ppbv	94
65) tert-Butylbenzene	16.73	119	5289439	9.307	ppbv	99
66) Benzyl Chloride	16.97	91	364175m	14.165	ppbv	
67) sec-Butylbenzene	17.28	105	7404797	9.325	ppbv	100
69) p-Isopropyltoluene	17.64	119	6251301	9.660	ppbv	99
70) n-Butylbenzene	18.54	91	6118679	9.894	ppbv	100
71) 2-Chlorotoluene	15.44	91	4270765	9.333	ppbv	99
72) 4-Ethyltoluene	15.82	105	5142071	9.777	ppbv	99
73) 1,3,5-Trimethylbenzene	15.98	105	4601206	9.399	ppbv	99
74) 1,2,4-Trimethylbenzene	16.75	105	4878947	9.379	ppbv	93
75) 1,3-Dichlorobenzene	16.98	146	2917056	9.316	ppbv	99
76) 1,4-Dichlorobenzene	17.12	146	2838854	9.000	ppbv	95
77) 1,2-Dichlorobenzene	17.80	146	2898230	9.399	ppbv	99
78) Hexachloro-1,3-Butadiene	23.36	225	2194345	8.559	ppbv	99
79) Naphthalene	22.17	128	3768606	10.825	ppbv	98
80) Naphthalene, 2-methyl-	24.95	142	1077207	11.107	ppbv	97
81) 1,2,4-Trichlorobenzene	21.90	180	2253229	10.314	ppbv	99

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

