

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092821\
 Data File : VL037701.D
 Acq On : 28 Sep 2021 13:00
 Operator : SY/AP
 Sample : VL0928ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0928ABS01

Manual Integrations
 APPROVED

Quant Time: Sep 29 03:52:22 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621A

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

QLast Update : Thu Sep 16 13:42:46 2021

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 09/29/2021
 Supervised By : Amit Patel 10/01/2021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1473373	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4369968	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	4166262m	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2864709	9.51	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.10%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	3.06	85	1968203	7.382	ppbv 98
3) Chlorodifluoromethane	3.00	51	2601721	9.362	ppbv 99
4) Chloromethane	3.15	50	980100	9.545	ppbv 99
5) Vinyl Chloride	3.27	62	990494	10.270	ppbv 100
6) Bromomethane	3.48	94	508408	9.070	ppbv 94
7) Chloroethane	3.57	64	342349	9.498	ppbv 98
8) Dichlorotetrafluoroethane	3.20	85	2234621	9.716	ppbv 100
9) Propene	3.02	41	951306	9.704	ppbv 98
10) Heptane	8.13	43	2414664	10.556	ppbv 99
11) Trichlorofluoromethane	3.96	101	2078198	9.709	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1512639	9.574	ppbv 99
13) Ethanol	3.62	45	91629m	9.556	ppbv
14) Bromoethene	3.75	108	707013	9.831	ppbv 100
15) Acetone	3.86	43	1174440	7.672	ppbv 96
16) 1,3-Butadiene	3.34	39	925735	9.678	ppbv 97
17) tert-Butyl alcohol	4.30	59	1398116	10.771	ppbv 100
18) 1,1-Dichloroethene	4.30	96	703653	9.560	ppbv 95
19) Isopropyl Alcohol	3.97	45	813564	9.768	ppbv # 96
20) Methylene Chloride	4.36	84	602307	8.241	ppbv 98
21) Allyl Chloride	4.42	41	1120615	9.799	ppbv 99
22) trans-1,2-Dichloroethene	4.89	96	709454	9.580	ppbv 98
23) Vinyl Acetate	5.08	43	2283057	10.778	ppbv 98
24) 1,1-Dichloroethane	5.02	63	1495904	9.858	ppbv 98
25) Ethyl Acetate	5.69	43	3732895	10.068	ppbv 99
26) Hexane	5.70	57	1763774	10.015	ppbv 99
27) Carbon Disulfide	4.56	76	1712305	10.628	ppbv 99
28) Methyl tert-Butyl Ether	5.04	73	1748343	11.271	ppbv 99
29) Chloroform	5.76	83	2437025	9.476	ppbv 100
30) Cyclohexane	7.14	84	1467472	9.742	ppbv 97
31) cis-1,2-Dichloroethene	5.56	61	1668243	10.434	ppbv 98
32) 1,1,1-Trichloroethane	6.52	97	2332209	9.741	ppbv 99
34) 2-Butanone	5.25	43	1680406	9.463	ppbv 97
35) Carbon Tetrachloride	7.03	117	2442334	9.880	ppbv 99
36) Benzene	6.90	78	3694116	10.138	ppbv 99
37) 1,2-Dichloroethane	6.32	62	1712967	9.558	ppbv 100
38) Trichloroethene	7.84	130	1440316	9.462	ppbv 97
39) 1,2-Dichloropropane	7.62	63	1396484	10.006	ppbv 97
40) 1,4-Dioxane	7.85	88	342131	10.077	ppbv 84
41) Tetrahydrofuran	6.06	42	912881	10.935	ppbv 99
42) Bromodichloromethane	7.80	83	2621114	10.204	ppbv 97
43) Methyl Methacrylate	8.03	69	1315192	10.849	ppbv 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.88	57	6063103	9.897	ppbv	100
45) t-1,3-Dichloropropene	9.29	75	1001423	10.517	ppbv	97
46) cis-1,3-Dichloropropene	8.71	75	1361941	10.588	ppbv	98
47) 1,1,2-Trichloroethane	9.48	97	1468756	9.513	ppbv	96
48) Dibromochloromethane	10.32	129	2310498	10.727	ppbv	99
49) Bromoform	13.05	173	1833110	10.634	ppbv	96
50) 4-Methyl-2-Pentanone	8.75	43	2453748	10.886	ppbv	100
51) 2-Hexanone	10.15	43	1135284	11.416	ppbv #	96
52) Tetrachloroethene	11.23	164	1351386	9.660	ppbv	99
53) Toluene	9.82	91	4245911	10.483	ppbv	99
54) 1,2-Dibromoethane	10.62	107	2076848	9.824	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.13	131	1554991	8.998	ppbv	96
57) Chlorobenzene	12.16	112	3002759	8.669	ppbv	98
58) Ethyl Benzene	12.72	91	5325738	9.630	ppbv	100
59) m/p-Xylene	13.01	91	8832577m	18.327	ppbv	
60) o-Xylene	13.70	91	4146961	9.040	ppbv	99
61) Styrene	13.54	104	2319931	10.256	ppbv	97
62) Isopropylbenzene	14.68	105	5745907	8.966	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.68	83	3030897	8.443	ppbv	99
64) n-propylbenzene	15.57	120	1550421	9.376	ppbv	86
65) tert-Butylbenzene	16.75	119	5094833	8.818	ppbv	99
66) Benzyl Chloride	17.00	91	296917m	9.404	ppbv	
67) sec-Butylbenzene	17.30	105	7126201	9.091	ppbv	99
69) p-Isopropyltoluene	17.66	119	5979470	9.337	ppbv	100
70) n-Butylbenzene	18.56	91	5768055	9.519	ppbv	100
71) 2-Chlorotoluene	15.46	91	4211000	9.169	ppbv	97
72) 4-Ethyltoluene	15.85	105	4849111	9.209	ppbv	98
73) 1,3,5-Trimethylbenzene	16.01	105	4531361	9.232	ppbv	98
74) 1,2,4-Trimethylbenzene	16.77	105	4642656	8.980	ppbv	98
75) 1,3-Dichlorobenzene	17.01	146	2859169	8.902	ppbv	99
76) 1,4-Dichlorobenzene	17.15	146	2814346	8.884	ppbv	100
77) 1,2-Dichlorobenzene	17.82	146	2720503	8.930	ppbv	99
78) Hexachloro-1,3-Butadiene	23.38	225	2023874	7.893	ppbv	100
79) Naphthalene	22.20	128	3413799	10.754	ppbv	98
80) Naphthalene,2-methyl-	24.98	142	989696	13.641	ppbv	96
81) 1,2,4-Trichlorobenzene	21.93	180	2059108	10.103	ppbv	100

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

