

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050621\
 Data File : VL036909.D
 Acq On : 6 May 2021 18:36
 Operator : SY/AP
 Sample : VL0506ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VL0506ABS01

Manual Integrations
 APPROVED

Quant Time: May 07 09:07:41 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721A

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

QLast Update : Tue Apr 27 16:56:35 2021

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 05/08/2021
 Supervised By : Mahesh Dadoda 05/10/2021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1433700	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.18	114	3699084	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.09	117	3491171	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2783926	9.93	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	2087973	9.247	ppbv 100
3) Chlorodifluoromethane	2.99	51	2823823	10.813	ppbv 100
4) Chloromethane	3.14	50	983148	11.454	ppbv 96
5) Vinyl Chloride	3.26	62	983141	11.355	ppbv 99
6) Bromomethane	3.48	94	538419	11.565	ppbv 99
7) Chloroethane	3.56	64	332130	11.674	ppbv 93
8) Dichlorotetrafluoroethane	3.19	85	2259748	10.972	ppbv 99
9) Propene	3.01	41	899202	11.300	ppbv 96
10) Heptane	8.13	43	2340443	11.694	ppbv 98
11) Trichlorofluoromethane	3.96	101	2231812	11.073	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1486887	11.023	ppbv 100
13) Ethanol	3.62	45	81459	8.027	ppbv 94
14) Bromoethene	3.74	108	651071	11.814	ppbv 99
15) Acetone	3.86	43	1249196	9.245	ppbv 100
16) 1,3-Butadiene	3.33	39	978230	11.321	ppbv 98
17) tert-Butyl alcohol	4.30	59	1272032	11.597	ppbv 99
18) 1,1-Dichloroethene	4.30	96	669495	11.420	ppbv 97
19) Isopropyl Alcohol	3.98	45	704504	10.522	ppbv 99
20) Methylene Chloride	4.35	84	548826	8.493	ppbv 96
21) Allyl Chloride	4.42	41	1137755	11.331	ppbv 97
22) trans-1,2-Dichloroethene	4.89	96	646002	10.981	ppbv 95
23) Vinyl Acetate	5.08	43	2589326	14.087	ppbv 98
24) 1,1-Dichloroethane	5.02	63	1798993	13.787	ppbv 97
25) Ethyl Acetate	5.69	43	3639110	11.025	ppbv 100
26) Hexane	5.69	57	1700559	11.012	ppbv 95
27) Carbon Disulfide	4.56	76	1705637	12.716	ppbv 98
28) Methyl tert-Butyl Ether	5.04	73	2007976	14.669	ppbv 100
29) Chloroform	5.76	83	2697115	11.202	ppbv 98
30) Cyclohexane	7.14	84	1456742	11.895	ppbv 97
31) cis-1,2-Dichloroethene	5.56	61	1696092	12.235	ppbv 99
32) 1,1,1-Trichloroethane	6.52	97	2721988	11.118	ppbv 99
34) 2-Butanone	5.26	43	1753744	10.823	ppbv 100
35) Carbon Tetrachloride	7.02	117	2840603	11.317	ppbv 96
36) Benzene	6.90	78	3578198	11.481	ppbv 98
37) 1,2-Dichloroethane	6.31	62	2043386	11.578	ppbv 100
38) Trichloroethene	7.84	130	1307199	11.780	ppbv 97
39) 1,2-Dichloropropane	7.62	63	1407176	11.270	ppbv 98
40) 1,4-Dioxane	7.84	88	351427m	11.655	ppbv
41) Tetrahydrofuran	6.06	42	877593	12.381	ppbv 99
42) Bromodichloromethane	7.80	83	2864903	11.683	ppbv 97
43) Methyl Methacrylate	8.02	69	1289127	12.676	ppbv 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	5967293	11.172	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1424536	12.994	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1830500	13.023	ppbv	100
47) 1,1,2-Trichloroethane	9.48	97	1440460	11.143	ppbv	98
48) Dibromochloromethane	10.31	129	2386417	12.458	ppbv	98
49) Bromoform	13.05	173	1896025	12.399	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2618500	11.822	ppbv	98
51) 2-Hexanone	10.15	43	1365782	12.363	ppbv #	96
52) Tetrachloroethene	11.23	164	1194188	11.252	ppbv	99
53) Toluene	9.81	91	3985330	12.220	ppbv	100
54) 1,2-Dibromoethane	10.62	107	2062844	11.303	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.13	131	1581169	10.803	ppbv #	62
57) Chlorobenzene	12.15	112	2890725	10.631	ppbv	98
58) Ethyl Benzene	12.72	91	5211555	11.769	ppbv	99
59) m/p-Xylene	13.00	91	8838904m	22.333	ppbv	
60) o-Xylene	13.70	91	4167039	10.889	ppbv	100
61) Styrene	13.54	104	2400728	13.359	ppbv	100
62) Isopropylbenzene	14.67	105	5647601	10.847	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.68	83	3041252	9.914	ppbv	99
64) n-propylbenzene	15.56	120	1478279	11.393	ppbv	100
65) tert-Butylbenzene	16.75	119	4928612	10.707	ppbv	99
66) Benzyl Chloride	17.00	91	509610	11.322	ppbv	99
67) sec-Butylbenzene	17.30	105	6944032	10.863	ppbv	100
69) p-Isopropyltoluene	17.66	119	5687974	11.099	ppbv	99
70) n-Butylbenzene	18.56	91	5830536	11.288	ppbv	100
71) 2-Chlorotoluene	15.46	91	4309995	11.177	ppbv	99
72) 4-Ethyltoluene	15.84	105	4926504	11.994	ppbv	100
73) 1,3,5-Trimethylbenzene	16.00	105	4416887	11.088	ppbv	98
74) 1,2,4-Trimethylbenzene	16.77	105	4538205	10.726	ppbv	95
75) 1,3-Dichlorobenzene	17.00	146	2624875	10.494	ppbv	99
76) 1,4-Dichlorobenzene	17.14	146	2491009	10.177	ppbv	98
77) 1,2-Dichlorobenzene	17.82	146	2539986	10.397	ppbv	100
78) Hexachloro-1,3-Butadiene	23.38	225	1846904	8.897	ppbv	100
79) Naphthalene	22.20	128	2850888	12.031	ppbv	99
80) Naphthalene, 2-methyl-	24.98	142	317882	12.164	ppbv	93
81) 1,2,4-Trichlorobenzene	21.93	180	1691962m	11.038	ppbv	

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

