

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
 Data File : VL038958.D
 Acq On : 5 May 2022 3:24
 Operator : SY/AP
 Sample : VSTDICC002
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Quant Time: May 05 05:00:05 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522A

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

QLast Update : Thu May 05 04:53:24 2022

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 05/07/2022
 Supervised By : Mahesh Dadoda 05/09/2022

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1370165	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3320044	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3114181	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2371658	9.63	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	416166	1.879 ppbv	96
3) Chlorodifluoromethane	2.99	51	350773	1.454 ppbv	97
4) Chloromethane	3.14	50	176658	1.971 ppbv	96
5) Vinyl Chloride	3.26	62	158183	1.727 ppbv	99
6) Bromomethane	3.47	94	72667	1.486 ppbv	96
7) Chloroethane	3.56	64	48505	1.550 ppbv	92
8) Dichlorotetrafluoroethane	3.19	85	402049	1.910 ppbv	97
9) Propene	3.01	41	150886	1.907 ppbv	99
10) Heptane	8.12	43	389091	1.920 ppbv	98
11) Trichlorofluoromethane	3.95	101	380749	1.728 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	259129	1.819 ppbv	94
13) Ethanol	3.62	45	12196m	1.408 ppbv	
14) Bromoethene	3.74	108	99440	1.677 ppbv	88
15) Acetone	3.85	43	289386	2.138 ppbv	98
16) 1,3-Butadiene	3.33	39	149166	1.654 ppbv	98
17) tert-Butyl alcohol	4.29	59	173886	1.526 ppbv	98
18) 1,1-Dichloroethene	4.29	96	120721	1.918 ppbv	97
19) Isopropyl Alcohol	3.97	45	114519m	1.586 ppbv	
20) Methylene Chloride	4.35	84	96025	1.575 ppbv	92
21) Allyl Chloride	4.41	41	172361	1.661 ppbv	92
22) trans-1,2-Dichloroethene	4.88	96	112261	1.881 ppbv	88
23) Vinyl Acetate	5.08	43	201004	0.978 ppbv #	96
24) 1,1-Dichloroethane	5.01	63	246158	1.554 ppbv	99
25) Ethyl Acetate	5.67	43	649971	2.028 ppbv	99
26) Hexane	5.68	57	291947	1.999 ppbv	99
27) Carbon Disulfide	4.55	76	261641	1.817 ppbv	95
28) Methyl tert-Butyl Ether	5.03	73	221667	1.374 ppbv	100
29) Chloroform	5.74	83	459209	1.935 ppbv	92
30) Cyclohexane	7.12	84	238374	2.015 ppbv #	85
31) cis-1,2-Dichloroethene	5.55	61	283592	1.987 ppbv	96
32) 1,1,1-Trichloroethane	6.51	97	452134	1.892 ppbv	97
34) 2-Butanone	5.24	43	355911	2.160 ppbv	98
35) Carbon Tetrachloride	7.01	117	454278	1.784 ppbv	98
36) Benzene	6.89	78	596550	1.969 ppbv	97
37) 1,2-Dichloroethane	6.30	62	363175	2.003 ppbv	100
38) Trichloroethene	7.83	130	245435	2.024 ppbv	94
39) 1,2-Dichloropropane	7.61	63	233047	1.899 ppbv	94
40) 1,4-Dioxane	7.83	88	77307	2.455 ppbv	68
41) Tetrahydrofuran	6.05	42	234258	2.862 ppbv	97
42) Bromodichloromethane	7.78	83	497688	2.020 ppbv #	94
43) Methyl Methacrylate	8.01	69	236057	2.259 ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	1069238	1.996	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	219501	1.852	ppbv	96
46) cis-1,3-Dichloropropene	8.70	75	299164	1.987	ppbv	95
47) 1,1,2-Trichloroethane	9.46	97	236303	1.892	ppbv	97
48) Dibromochloromethane	10.29	129	385888	2.010	ppbv	99
49) Bromoform	13.02	173	296704	1.931	ppbv	97
50) 4-Methyl-2-Pentanone	8.74	43	621563	2.523	ppbv	99
51) 2-Hexanone	10.13	43	454139	3.257	ppbv #	94
52) Tetrachloroethene	11.21	164	204288	1.827	ppbv	99
53) Toluene	9.80	91	674515	2.085	ppbv	99
54) 1,2-Dibromoethane	10.60	107	324911	1.848	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.11	131	282827	2.016	ppbv #	1
57) Chlorobenzene	12.13	112	472848	1.815	ppbv	97
58) Ethyl Benzene	12.70	91	927126	2.071	ppbv	96
59) m/p-Xylene	12.99	91	1592440m	4.067	ppbv	
60) o-Xylene	13.68	91	758615	2.006	ppbv	98
61) Styrene	13.51	104	403466	2.141	ppbv	98
62) Isopropylbenzene	14.65	105	1100053	2.136	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.66	83	434839	1.534	ppbv	99
64) n-propylbenzene	15.55	120	271772	2.163	ppbv	93
65) tert-Butylbenzene	16.73	119	971326	2.172	ppbv	97
66) Benzyl Chloride	16.97	91	100932m	1.845	ppbv	
67) sec-Butylbenzene	17.28	105	1407345	2.217	ppbv	98
69) p-Isopropyltoluene	17.64	119	1151801	2.321	ppbv	99
70) n-Butylbenzene	18.54	91	1229017	2.362	ppbv	99
71) 2-Chlorotoluene	15.44	91	866922	2.237	ppbv	97
72) 4-Ethyltoluene	15.82	105	894310	2.153	ppbv	99
73) 1,3,5-Trimethylbenzene	15.98	105	795172	2.054	ppbv	95
74) 1,2,4-Trimethylbenzene	16.74	105	856728	2.050	ppbv #	89
75) 1,3-Dichlorobenzene	16.98	146	467510m	1.997	ppbv	
76) 1,4-Dichlorobenzene	17.12	146	455217	1.952	ppbv	97
77) 1,2-Dichlorobenzene	17.80	146	445379	2.010	ppbv	95
78) Hexachloro-1,3-Butadiene	23.36	225	440595	2.209	ppbv	98
79) Naphthalene	22.18	128	754934	2.930	ppbv	97
80) Naphthalene, 2-methyl-	24.96	142	214295	3.811	ppbv	98
81) 1,2,4-Trichlorobenzene	21.91	180	408101	2.609	ppbv	99

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

