

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012422\
 Data File : VL038255.D
 Acq On : 24 Jan 2022 10:45
 Operator : SY/AP
 Sample : VSTDICC001
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Quant Time: Jan 24 11:24:41 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012422A

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

QLast Update : Mon Jan 24 11:15:25 2022

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 01/25/2022
 Supervised By :Mahesh Dadoda 01/26/2022

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	839800	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2253915	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2012260	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1513997	9.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	201851	1.276 ppbv	97
3) Chlorodifluoromethane	3.00	51	173404	0.983 ppbv	99
4) Chloromethane	3.15	50	60780	0.993 ppbv	92
5) Vinyl Chloride	3.27	62	57574	0.936 ppbv	99
6) Bromomethane	3.48	94	31627	1.009 ppbv	90
7) Chloroethane	3.57	64	18479	0.892 ppbv #	79
8) Dichlorotetrafluoroethane	3.20	85	135239	0.901 ppbv	94
9) Propene	3.02	41	53105	0.867 ppbv	91
10) Heptane	8.13	43	139155	0.895 ppbv	97
11) Trichlorofluoromethane	3.96	101	146112	1.005 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	106790	0.973 ppbv	96
13) Ethanol	3.63	45	5811m	0.559 ppbv	
14) Bromoethene	3.75	108	42345	0.968 ppbv	99
15) Acetone	3.87	43	80265	0.952 ppbv	96
16) 1,3-Butadiene	3.34	39	55330m	0.964 ppbv	
17) tert-Butyl alcohol	4.31	59	83940m	0.907 ppbv	
18) 1,1-Dichloroethene	4.29	96	47938	0.997 ppbv	99
19) Isopropyl Alcohol	4.00	45	50541m	0.961 ppbv	
20) Methylene Chloride	4.35	84	47200m	0.992 ppbv	
21) Allyl Chloride	4.42	41	62971	0.883 ppbv	88
22) trans-1,2-Dichloroethene	4.89	96	48386m	0.987 ppbv	
23) Vinyl Acetate	5.08	43	100723	0.883 ppbv #	97
24) 1,1-Dichloroethane	5.02	63	100097	0.981 ppbv	97
25) Ethyl Acetate	5.69	43	218750	0.958 ppbv	98
26) Hexane	5.69	57	97443	0.851 ppbv	94
27) Carbon Disulfide	4.56	76	111650	1.107 ppbv	97
28) Methyl tert-Butyl Ether	5.05	73	99100	0.861 ppbv	94
29) Chloroform	5.75	83	165528	0.974 ppbv	100
30) Cyclohexane	7.14	84	88477m	0.872 ppbv	
31) cis-1,2-Dichloroethene	5.56	61	82408	0.917 ppbv	93
32) 1,1,1-Trichloroethane	6.52	97	156458	0.928 ppbv	96
34) 2-Butanone	5.26	43	68364	1.009 ppbv	92
35) Carbon Tetrachloride	7.02	117	162804	1.170 ppbv	95
36) Benzene	6.89	78	211541	1.006 ppbv	97
37) 1,2-Dichloroethane	6.31	62	117005	1.109 ppbv	99
38) Trichloroethene	7.84	130	75059	0.938 ppbv	97
39) 1,2-Dichloropropane	7.62	63	84066	1.039 ppbv	99
40) 1,4-Dioxane	7.87	88	22517m	0.957 ppbv	
41) Tetrahydrofuran	6.07	42	52438m	1.057 ppbv	
42) Bromodichloromethane	7.79	83	174709	1.164 ppbv	99
43) Methyl Methacrylate	8.02	69	69715	0.964 ppbv	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	380997	1.067	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	50545	0.944	ppbv	100
46) cis-1,3-Dichloropropene	8.71	75	72887m	0.983	ppbv	
47) 1,1,2-Trichloroethane	9.48	97	81679	0.973	ppbv	88
48) Dibromochloromethane	10.30	129	136861	1.159	ppbv	97
49) Bromoform	13.04	173	97045	1.157	ppbv	96
50) 4-Methyl-2-Pentanone	8.76	43	135819m	1.103	ppbv	
51) 2-Hexanone	10.16	43	56758m	0.963	ppbv	
52) Tetrachloroethene	11.22	164	69908	0.901	ppbv	94
53) Toluene	9.81	91	229894	0.948	ppbv	100
54) 1,2-Dibromoethane	10.61	107	115650	0.971	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.12	131	93150	1.113	ppbv #	1
57) Chlorobenzene	12.15	112	175380	1.005	ppbv	98
58) Ethyl Benzene	12.71	91	313026	1.002	ppbv	96
59) m/p-Xylene	12.99	91	545144m	2.042	ppbv	
60) o-Xylene	13.69	91	255533	1.032	ppbv	98
61) Styrene	13.53	104	107710	0.859	ppbv	98
62) Isopropylbenzene	14.67	105	338637	0.975	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	183910	0.966	ppbv	100
64) n-propylbenzene	15.56	120	81124m	0.939	ppbv	
65) tert-Butylbenzene	16.74	119	280602	0.917	ppbv	94
66) Benzyl Chloride	17.00	91	10015m	0.879	ppbv	
67) sec-Butylbenzene	17.29	105	391465	0.931	ppbv	100
69) p-Isopropyltoluene	17.65	119	287326	0.850	ppbv	95
70) n-Butylbenzene	18.55	91	289169	0.900	ppbv	98
71) 2-Chlorotoluene	15.46	91	246249	0.952	ppbv	98
72) 4-Ethyltoluene	15.83	105	257446	0.903	ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	235270	0.922	ppbv	96
74) 1,2,4-Trimethylbenzene	16.76	105	248463	0.927	ppbv #	88
75) 1,3-Dichlorobenzene	16.99	146	132022	0.912	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	130338m	0.908	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	119482	0.862	ppbv	97
78) Hexachloro-1,3-Butadiene	23.37	225	89666m	1.049	ppbv	
79) Naphthalene	22.20	128	87600	0.633	ppbv #	95
80) Naphthalene, 2-methyl-	24.98	142	7368m	0.268	ppbv	
81) 1,2,4-Trichlorobenzene	21.92	180	58631m	0.741	ppbv	

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

