

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032521\
 Data File : VL036472.D
 Acq On : 25 Mar 2021 3:20
 Operator : SY/AP
 Sample : VSTDICC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/26/2021
 Supervised By : Mahesh Dadoda 03/29/2021

Quant Time: Mar 25 09:34:13 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Mar 25 07:52:30 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1655296m	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3789327	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3477525	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2693812	9.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.30%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	297232	1.243	ppbv	92
3) Chlorodifluoromethane	2.99	51	330004	1.528	ppbv	97
4) Chloromethane	3.14	50	112162	1.174	ppbv	90
5) Vinyl Chloride	3.26	62	105260	1.164	ppbv	96
6) Bromomethane	3.47	94	61895	1.104	ppbv	87
7) Chloroethane	3.56	64	41377m	1.225	ppbv	
8) Dichlorotetrafluoroethane	3.19	85	279640	1.208	ppbv	97
9) Propene	3.01	41	97682	1.111	ppbv	91
10) Heptane	8.12	43	256733	1.181	ppbv	98
11) Trichlorofluoromethane	3.95	101	288415	1.187	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.49	101	184933	1.186	ppbv	98
13) Ethanol	3.62	45	10957m	0.869	ppbv	
14) Bromoethene	3.74	108	76760m	1.188	ppbv	
15) Acetone	3.86	43	161992	0.877	ppbv #	74
16) 1,3-Butadiene	3.33	39	116980m	1.222	ppbv	
17) tert-Butyl alcohol	4.30	59	160760	1.087	ppbv	94
18) 1,1-Dichloroethene	4.29	96	82778m	1.188	ppbv	
19) Isopropyl Alcohol	3.98	45	100758m	0.977	ppbv	
20) Methylene Chloride	4.35	84	81154	1.222	ppbv	94
21) Allyl Chloride	4.41	41	125741	1.129	ppbv	96
22) trans-1,2-Dichloroethene	4.89	96	70520	1.110	ppbv	82
23) Vinyl Acetate	5.08	43	289059m	1.286	ppbv	
24) 1,1-Dichloroethane	5.01	63	209250	1.194	ppbv	97
25) Ethyl Acetate	5.69	43	413909	1.119	ppbv #	97
26) Hexane	5.69	57	188251	1.205	ppbv	94
27) Carbon Disulfide	4.55	76	154821	1.006	ppbv #	90
28) Methyl tert-Butyl Ether	5.04	73	218202	1.068	ppbv	100
29) Chloroform	5.75	83	293749	1.159	ppbv	97
30) Cyclohexane	7.14	84	149259m	1.155	ppbv	
31) cis-1,2-Dichloroethene	5.55	61	173033m	1.144	ppbv	
32) 1,1,1-Trichloroethane	6.51	97	286250	1.128	ppbv	97
34) 2-Butanone	5.25	43	163792	0.740	ppbv #	84
35) Carbon Tetrachloride	7.01	117	295400	1.185	ppbv	92
36) Benzene	6.89	78	378473	1.254	ppbv	96
37) 1,2-Dichloroethane	6.31	62	225480	1.196	ppbv	100
38) Trichloroethene	7.84	130	137520	1.214	ppbv	98
39) 1,2-Dichloropropane	7.61	63	163195m	1.267	ppbv	
40) 1,4-Dioxane	7.87	88	40793m	1.036	ppbv	
41) Tetrahydrofuran	6.07	42	87902m	0.749	ppbv	
42) Bromodichloromethane	7.79	83	299308	1.174	ppbv	93
43) Methyl Methacrylate	8.02	69	119743	1.014	ppbv	99

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

44) 2,2,4-Trimethylpentane	7.87	57	691857	1.265	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	129668m	1.099	ppbv	
46) cis-1,3-Dichloropropene	8.71	75	165783m	1.076	ppbv	
47) 1,1,2-Trichloroethane	9.48	97	150283	1.179	ppbv	89
48) Dibromochloromethane	10.30	129	224702	1.161	ppbv	100
49) Bromoform	13.04	173	173482	1.099	ppbv	97
50) 4-Methyl-2-Pentanone	8.76	43	263886	0.828	ppbv	100
51) 2-Hexanone	10.15	43	118252	0.522	ppbv #	99
52) Tetrachloroethene	11.23	164	134645m	1.197	ppbv	
53) Toluene	9.81	91	394707	1.213	ppbv	100
54) 1,2-Dibromoethane	10.61	107	218861m	1.194	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.13	131	166299	1.070	ppbv #	70
57) Chlorobenzene	12.15	112	327284	1.265	ppbv	97
58) Ethyl Benzene	12.71	91	543929	1.219	ppbv	91
59) m/p-Xylene	13.00	91	969139m	2.471	ppbv	
60) o-Xylene	13.70	91	478538	1.271	ppbv	96
61) Styrene	13.54	104	204936	0.925	ppbv	95
62) Isopropylbenzene	14.67	105	634485	1.138	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.68	83	344426m	1.182	ppbv	
64) n-propylbenzene	15.57	120	151037m	1.088	ppbv	
65) tert-Butylbenzene	16.75	119	551949	1.138	ppbv	93
66) Benzyl Chloride	16.99	91	49862m	0.440	ppbv	
67) sec-Butylbenzene	17.30	105	792379	1.172	ppbv	96
69) p-Isopropyltoluene	17.66	119	597953	1.105	ppbv	99
70) n-Butylbenzene	18.55	91	611295	1.094	ppbv	97
71) 2-Chlorotoluene	15.46	91	467964	1.120	ppbv	98
72) 4-Ethyltoluene	15.85	105	500996m	1.222	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	454423	1.150	ppbv	91
74) 1,2,4-Trimethylbenzene	16.76	105	533146m	1.272	ppbv	
75) 1,3-Dichlorobenzene	17.00	146	293827m	1.252	ppbv	
76) 1,4-Dichlorobenzene	17.14	146	288999m	1.234	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	254367	1.115	ppbv	95
78) Hexachloro-1,3-Butadiene	23.39	225	254548m	1.374	ppbv	
79) Naphthalene	22.22	128	237837m	0.953	ppbv	
80) Naphthalene, 2-methyl-	25.00	142	26525m	0.499	ppbv	
81) 1,2,4-Trichlorobenzene	21.94	180	170415m	1.168	ppbv	

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

