

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121020\
 Data File : VL036161.D
 Acq On : 11 Dec 2020 12:36
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/15/2020 4:52:19 PM

Quant Time: Dec 11 16:02:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1246972	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.17	114	2568980	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.08	117	2464283m	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2138951	10.93	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1285354	8.845	ppbv	98
3) Chlorodifluoromethane	2.98	51	1565412	11.003	ppbv	97
4) Chloromethane	3.13	50	743140	10.639	ppbv	99
5) Vinyl Chloride	3.25	62	727485	9.362	ppbv	100
6) Bromomethane	3.46	94	364488	9.090	ppbv	84
7) Chloroethane	3.55	64	256019	9.672	ppbv	92
8) Dichlorotetrafluoroethane	3.18	85	1666698	10.320	ppbv	88
9) Propene	3.00	41	694302	9.742	ppbv	99
10) Heptane	8.11	43	1782866	9.795	ppbv	99
11) Trichlorofluoromethane	3.94	101	1776646	10.398	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1096775	9.452	ppbv	91
13) Ethanol	3.60	45	90757m	9.237	ppbv	
14) Bromoethene	3.73	108	458634	9.635	ppbv	96
15) Acetone	3.84	43	1538118	10.263	ppbv	97
16) 1,3-Butadiene	3.31	39	717332	9.503	ppbv	98
17) tert-Butyl alcohol	4.28	59	1059610	7.299	ppbv	99
18) 1,1-Dichloroethene	4.28	96	494107	9.591	ppbv	97
19) Isopropyl Alcohol	3.96	45	727912	7.947	ppbv #	100
20) Methylene Chloride	4.33	84	420956m	6.854	ppbv	
21) Allyl Chloride	4.40	41	855298	8.583	ppbv	90
22) trans-1,2-Dichloroethene	4.87	96	485578	9.414	ppbv	92
23) Vinyl Acetate	5.07	43	1947034	9.758	ppbv #	98
24) 1,1-Dichloroethane	5.00	63	1336865	9.526	ppbv	99
25) Ethyl Acetate	5.67	43	3015398	10.071	ppbv	100
26) Hexane	5.68	57	1235438	9.169	ppbv	99
27) Carbon Disulfide	4.54	76	1189498	8.882	ppbv	95
28) Methyl tert-Butyl Ether	5.02	73	1685056	8.796	ppbv	100
29) Chloroform	5.74	83	1886024	10.659	ppbv	99
30) Cyclohexane	7.12	84	968289	9.782	ppbv	97
31) cis-1,2-Dichloroethene	5.54	61	1307166	10.672	ppbv	92
32) 1,1,1-Trichloroethane	6.51	97	1848533	10.124	ppbv	96
34) 2-Butanone	5.24	43	1827699	10.726	ppbv	99
35) Carbon Tetrachloride	7.01	117	1763120	11.769	ppbv	99
36) Benzene	6.89	78	2448345	11.246	ppbv	97
37) 1,2-Dichloroethane	6.30	62	1626707	12.894	ppbv	97
38) Trichloroethene	7.83	130	741325	9.109	ppbv	92
39) 1,2-Dichloropropane	7.61	63	1004331	11.681	ppbv	96
40) 1,4-Dioxane	7.83	88	294350	10.885	ppbv #	42
41) Tetrahydrofuran	6.04	42	1134335	11.205	ppbv	99
42) Bromodichloromethane	7.79	83	2096414	12.471	ppbv	98
43) Methyl Methacrylate	8.01	69	1134201	12.143	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	4417915	11.205	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	1190048	12.402	ppbv	97
46) cis-1,3-Dichloropropene	8.70	75	1417642	11.787	ppbv	98
47) 1,1,2-Trichloroethane	9.47	97	933577	11.286	ppbv	98
48) Dibromochloromethane	10.30	129	1470757	11.774	ppbv	99
49) Bromoform	13.04	173	1185948	12.063	ppbv	98
50) 4-Methyl-2-Pentanone	8.74	43	3011795	11.851	ppbv	99
51) 2-Hexanone	10.13	43	2419971	12.182	ppbv #	97
52) Tetrachloroethene	11.22	164	701528	8.901	ppbv	96
53) Toluene	9.80	91	2679151	10.959	ppbv	99
54) 1,2-Dibromoethane	10.61	107	1398241	11.277	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.12	131	1088108	10.649	ppbv	97
57) Chlorobenzene	12.14	112	1814385	10.488	ppbv	95
58) Ethyl Benzene	12.71	91	3718565	11.011	ppbv	100
59) m/p-Xylene	13.00	91	6310926m	22.187	ppbv	
60) o-Xylene	13.69	91	2954046	11.023	ppbv	96
61) Styrene	13.53	104	1963620	11.413	ppbv	95
62) Isopropylbenzene	14.67	105	4212334	10.604	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.67	83	2059277	11.410	ppbv	99
64) n-propylbenzene	15.56	120	1027012	10.746	ppbv	83
65) tert-Butylbenzene	16.74	119	3465118	10.657	ppbv	91
66) Benzyl Chloride	16.99	91	1054485	13.024	ppbv	95
67) sec-Butylbenzene	17.29	105	5046567	11.090	ppbv	97
69) p-Isopropyltoluene	17.65	119	3987118	11.015	ppbv	96
70) n-Butylbenzene	18.55	91	4537080	12.682	ppbv	98
71) 2-Chlorotoluene	15.45	91	3472272	11.563	ppbv	95
72) 4-Ethyltoluene	15.84	105	3290594	11.335	ppbv	97
73) 1,3,5-Trimethylbenzene	16.00	105	3091901	11.152	ppbv	96
74) 1,2,4-Trimethylbenzene	16.76	105	3158969	11.350	ppbv	92
75) 1,3-Dichlorobenzene	17.00	146	1539063	11.047	ppbv	97
76) 1,4-Dichlorobenzene	17.14	146	1515435	10.684	ppbv	97
77) 1,2-Dichlorobenzene	17.82	146	1488056	11.187	ppbv	97
78) Hexachloro-1,3-Butadiene	23.38	225	893752m	8.383	ppbv	
79) Naphthalene	22.19	128	1603767	11.336	ppbv	97
80) Naphthalene, 2-methyl-	24.98	142	629114	19.887	ppbv	89
81) 1,2,4-Trichlorobenzene	21.93	180	902230	9.546	ppbv #	100

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

