

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021622\
 Data File : VL038363.D
 Acq On : 16 Feb 2022 11:04
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Feb 17 06:03:42 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 24 14:12:48 2022
 QLast Update : Mon Jan 24 14:12:48 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.62	49	718935	10.00	ppbv	-0.05
33) 1,4-Difluorobenzene	7.12	114	2243965	10.00	ppbv	-0.05
55) Chlorobenzene-d5	12.02	117	2179527m	10.00	ppbv	-0.06

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.35	95	1730524	10.46	ppbv	-0.06
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	1340323	8.76	ppbv	99
3) Chlorodifluoromethane	2.96	51	1540622	10.76	ppbv	99
4) Chloromethane	3.11	50	532986	10.82	ppbv	99
5) Vinyl Chloride	3.23	62	547281	11.14	ppbv	99
6) Bromomethane	3.44	94	298603	11.24	ppbv	98
7) Chloroethane	3.53	64	186245	11.22	ppbv	95
8) Dichlorotetrafluoroethane	3.16	85	1300741	10.98	ppbv	99
9) Propene	2.98	41	529556	11.37	ppbv	99
10) Heptane	8.07	43	1301981	10.86	ppbv	100
11) Trichlorofluoromethane	3.92	101	1331120	11.16	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.45	101	985945	10.94	ppbv	98
13) Ethanol	3.58	45	48098m	9.62	ppbv	
14) Bromoethene	3.71	108	398446	11.31	ppbv	98
15) Acetone	3.81	43	624651	9.86	ppbv	99
16) 1,3-Butadiene	3.30	39	503804	11.08	ppbv	99
17) tert-Butyl alcohol	4.25	59	865776	12.45	ppbv	97
18) 1,1-Dichloroethene	4.25	96	441537	11.27	ppbv	97
19) Isopropyl Alcohol	3.93	45	470495	11.87	ppbv #	98
20) Methylene Chloride	4.31	84	344591	9.35	ppbv	97
21) Allyl Chloride	4.37	41	646992	11.54	ppbv	96
22) trans-1,2-Dichloroethene	4.84	96	464110	11.46	ppbv	98
23) Vinyl Acetate	5.03	43	931184	10.11	ppbv	100
24) 1,1-Dichloroethane	4.97	63	916198	11.16	ppbv	100
25) Ethyl Acetate	5.63	43	1761212	9.93	ppbv	99
26) Hexane	5.64	57	838859	10.16	ppbv	95
27) Carbon Disulfide	4.51	76	1106392	11.46	ppbv	99
28) Methyl tert-Butyl Ether	4.99	73	975457	11.39	ppbv	100
29) Chloroform	5.70	83	1448114	10.75	ppbv	98
30) Cyclohexane	7.08	84	801890	11.16	ppbv	99
31) cis-1,2-Dichloroethene	5.50	61	689084	9.57	ppbv	97
32) 1,1,1-Trichloroethane	6.46	97	1517032	11.27	ppbv	99
34) 2-Butanone	5.20	43	689599	9.40	ppbv	99
35) Carbon Tetrachloride	6.97	117	1555786	9.88	ppbv	98
36) Benzene	6.84	78	1983548	9.99	ppbv	99
37) 1,2-Dichloroethane	6.26	62	1128956	9.93	ppbv	98
38) Trichloroethene	7.78	130	699977	9.47	ppbv	97
39) 1,2-Dichloropropane	7.56	63	784302	9.75	ppbv	100
40) 1,4-Dioxane	7.78	88	183956	9.50	ppbv	88
41) Tetrahydrofuran	6.00	42	500830	10.15	ppbv	99
42) Bromodichloromethane	7.74	83	1694247	10.04	ppbv	99
43) Methyl Methacrylate	7.96	69	741246	10.56	ppbv	99

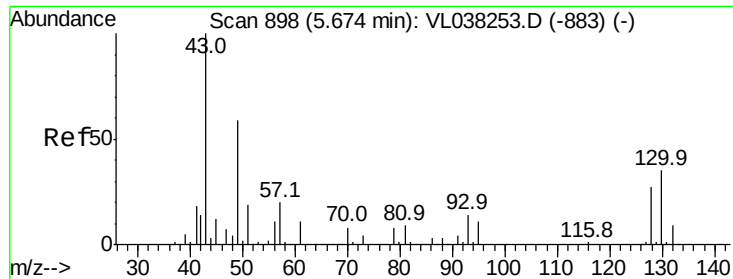
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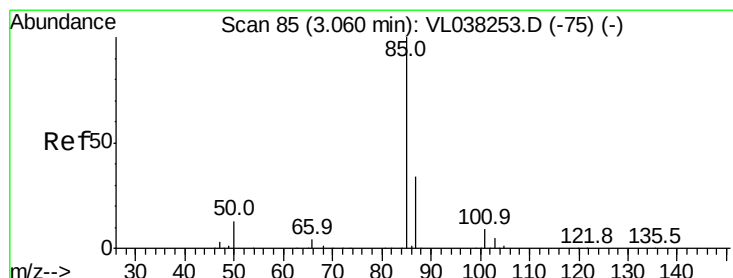
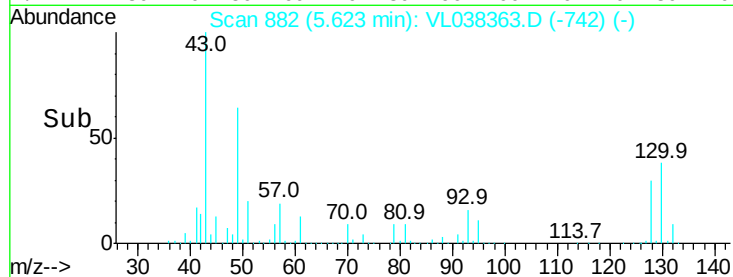
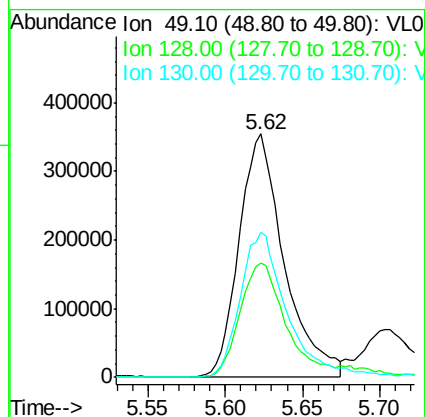
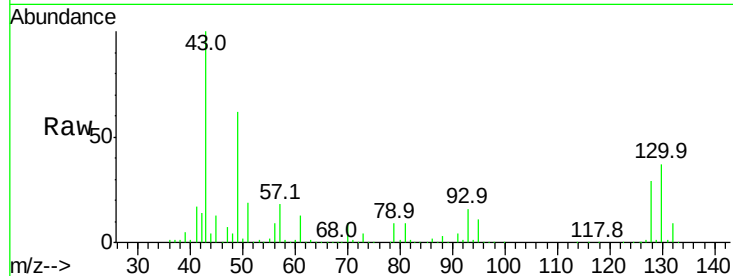
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.82	57	3325642	9.51	ppbv	100
45) t-1,3-Dichloropropene	9.22	75	579069	10.15	ppbv	100
46) cis-1,3-Dichloropropene	8.65	75	746111	9.80	ppbv	98
47) 1,1,2-Trichloroethane	9.42	97	763193	9.65	ppbv	98
48) Dibromochloromethane	10.25	129	1282797	9.64	ppbv	99
49) Bromoform	12.98	173	873192	9.10	ppbv	100
50) 4-Methyl-2-Pentanone	8.69	43	1275108	9.74	ppbv	99
51) 2-Hexanone	10.08	43	551173	9.56	ppbv #	97
52) Tetrachloroethene	11.16	164	609156	8.90	ppbv	97
53) Toluene	9.75	91	2170360	9.88	ppbv	99
54) 1,2-Dibromoethane	10.55	107	1090146	9.70	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.07	131	815526	8.55	ppbv	98
57) Chlorobenzene	12.09	112	1468629	8.42	ppbv	99
58) Ethyl Benzene	12.65	91	2786730	8.70	ppbv	98
59) m/p-Xylene	12.94	91	4537260m	16.60	ppbv	
60) o-Xylene	13.64	91	2112021	8.31	ppbv	100
61) Styrene	13.47	104	1078324	9.09	ppbv	99
62) Isopropylbenzene	14.61	105	2776563	8.19	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.62	83	1397809	7.43	ppbv	99
64) n-propylbenzene	15.50	120	678895	8.33	ppbv	96
65) tert-Butylbenzene	16.68	119	2259761	8.10	ppbv	99
66) Benzyl Chloride	16.92	91	76152	6.01	ppbv	99
67) sec-Butylbenzene	17.23	105	3147161	8.11	ppbv	100
69) p-Isopropyltoluene	17.59	119	2530036	8.52	ppbv	99
70) n-Butylbenzene	18.49	91	2640869	9.08	ppbv	100
71) 2-Chlorotoluene	15.39	91	2024835	8.07	ppbv	100
72) 4-Ethyltoluene	15.78	105	2253237	8.48	ppbv	100
73) 1,3,5-Trimethylbenzene	15.94	105	1982783	8.30	ppbv	99
74) 1,2,4-Trimethylbenzene	16.70	105	2053236	8.15	ppbv	95
75) 1,3-Dichlorobenzene	16.94	146	1098225	8.13	ppbv	99
76) 1,4-Dichlorobenzene	17.08	146	1047290	8.00	ppbv	97
77) 1,2-Dichlorobenzene	17.76	146	1038672	8.28	ppbv	99
78) Hexachloro-1,3-Butadiene	23.31	225	857863m	9.83	ppbv	
79) Naphthalene	22.12	128	1619223	13.75	ppbv	98
80) Naphthalene,2-methyl-	24.92	142	302733	23.64	ppbv	97
81) 1,2,4-Trichlorobenzene	21.85	180	872464	12.60	ppbv	99

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



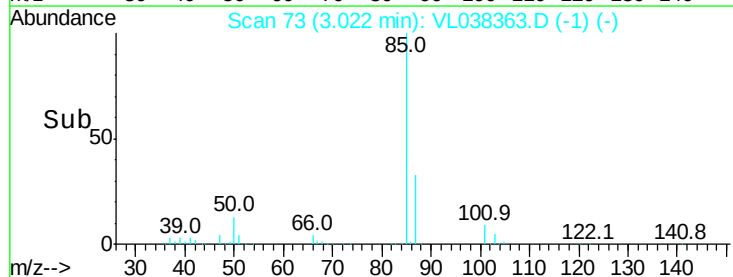
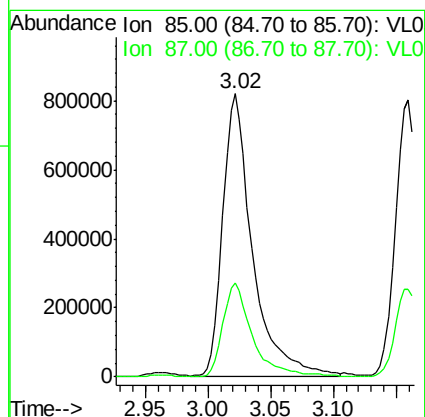
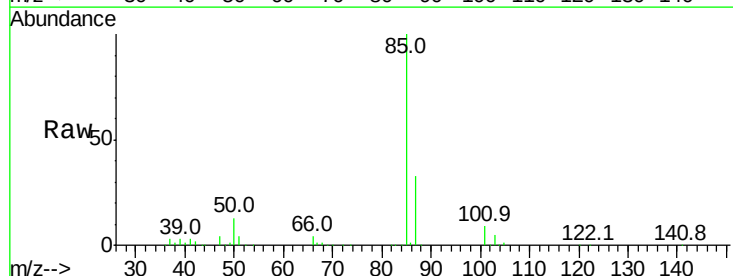
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.62
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 VSTDCCC010
 Acq: 16 Feb 2022 11:04

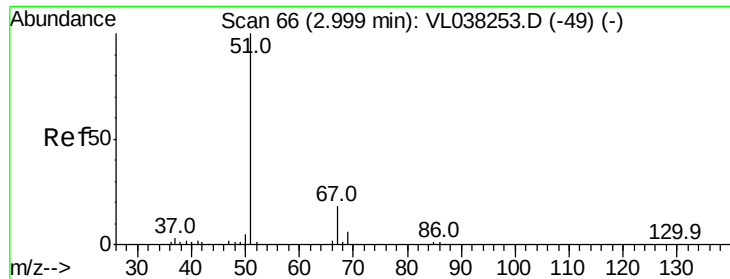
Tgt Ion: 49 Resp: 718935
 Ion Ratio Lower Upper
 49 100
 128 52.4 24.5 73.5
 130 63.1 30.1 90.5



#2
 Dichlorodifluoromethane
 Concen: 8.76 ppbv
 RT: 3.02 min Scan# 73
 Delta R.T. -0.04 min
 Lab File: VL038363.D
 Acq: 16 Feb 2022 11:04

Tgt Ion: 85 Resp: 1340323
 Ion Ratio Lower Upper
 85 100
 87 33.0 27.0 40.6





#3

Chlorodifluoromethane

Concen: 10.76 ppbv

RT: 2.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

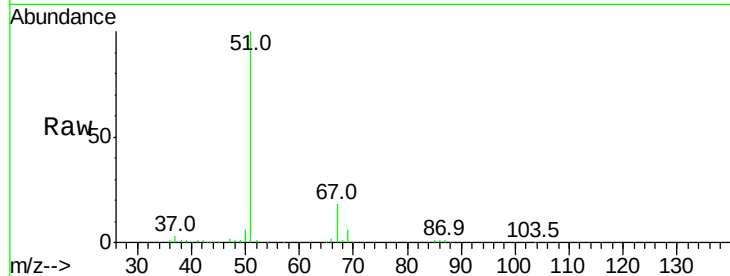
Acq: 16 Feb 2022 11:04 VSTDCCC010

Tgt Ion: 51 Resp: 1540622

Ion Ratio Lower Upper

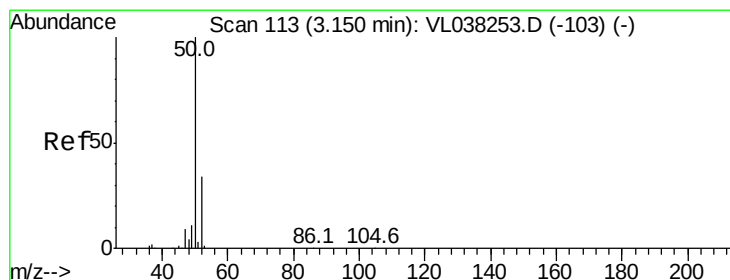
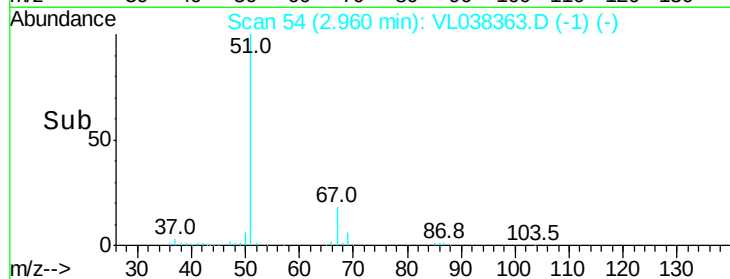
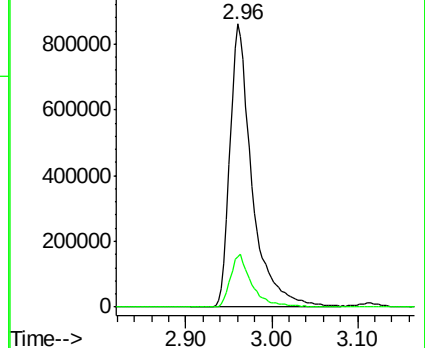
51 100

67 18.2 14.4 21.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.82 ppbv

RT: 3.11 min Scan# 101

Delta R.T. -0.04 min

Lab File: VL038363.D

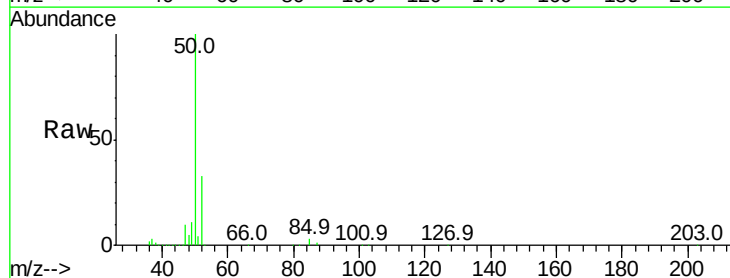
Acq: 16 Feb 2022 11:04

Tgt Ion: 50 Resp: 532986

Ion Ratio Lower Upper

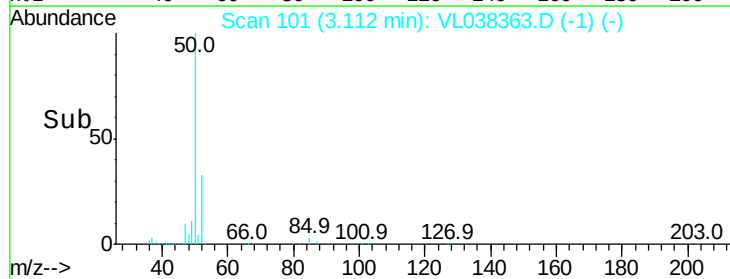
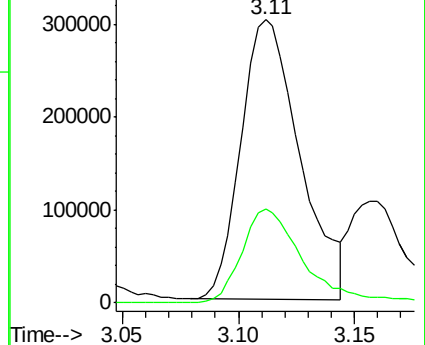
50 100

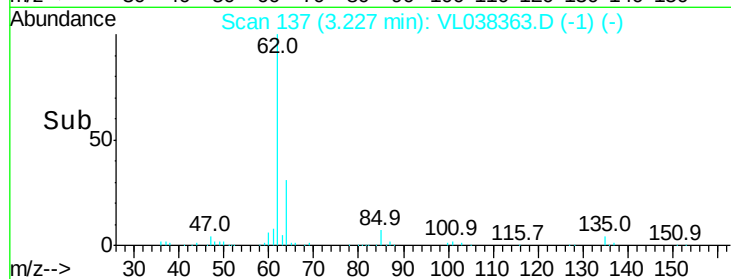
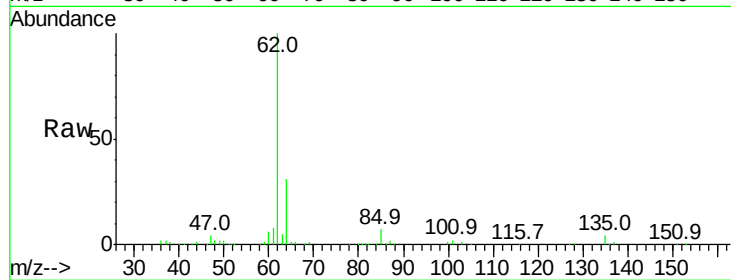
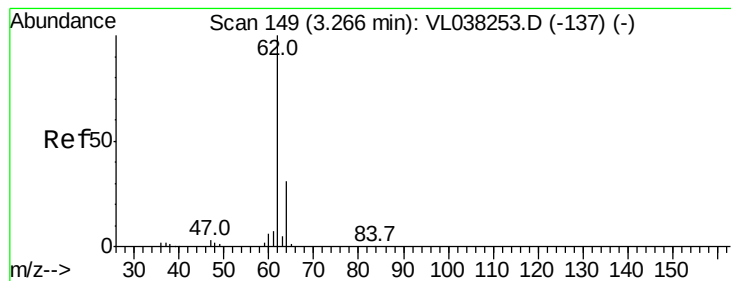
52 33.5 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 11.14 ppbv

RT: 3.23 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

VSTDCCC010

Acq: 16 Feb 2022 11.04

Tgt Ion: 62 Resp: 547281

Ion Ratio Lower Upper

62 100

64 31.2 24.4 36.6