

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120721\
 Data File : VL038146.D
 Acq On : 7 Dec 2021 12:12
 Operator : SY/AP
 Sample : M4859-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

Quant Time: Dec 07 14:15:14 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	908801	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2467567	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2157685	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1675528	10.77	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.70%

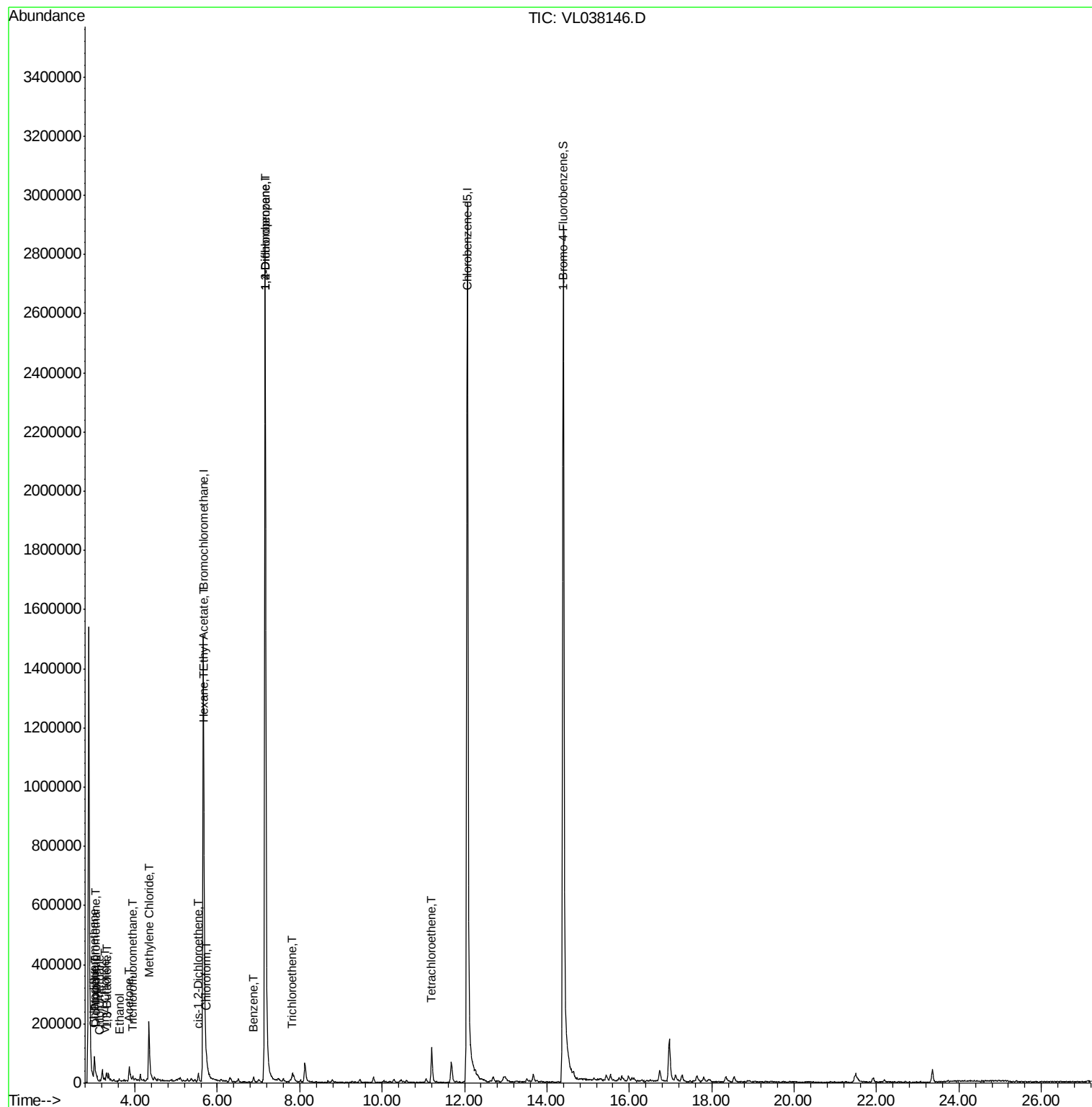
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	14000	0.093	ppbv #	86
3) Chlorodifluoromethane	2.99	51	22381	0.117	ppbv #	84
4) Chloromethane	3.14	50	2367	0.036	ppbv #	43
5) Vinyl Chloride	3.25	62	2210	0.035	ppbv #	57
9) Propene	3.01	41	35680	0.508	ppbv	96
11) Trichlorofluoromethane	3.95	101	6803	0.048	ppbv #	52
13) Ethanol	3.62	45	3769	0.555	ppbv #	42
15) Acetone	3.86	43	32763	0.416	ppbv #	41
16) 1,3-Butadiene	3.32	39	5461	0.089	ppbv #	76
20) Methylene Chloride	4.34	84	82125	1.861	ppbv	97
25) Ethyl Acetate	5.68	43	17941	0.069	ppbv #	79
26) Hexane	5.68	57	37190	0.295	ppbv #	52
29) Chloroform	5.74	83	6847	0.037	ppbv	84
31) cis-1,2-Dichloroethene	5.54	61	16843	0.140	ppbv	93
36) Benzene	6.88	78	15362	0.062	ppbv	97
38) Trichloroethene	7.82	130	4295	0.046	ppbv #	79
39) 1,2-Dichloropropane	7.16	63	634059	6.715	ppbv #	27
52) Tetrachloroethene	11.19	164	9128	0.100	ppbv	92

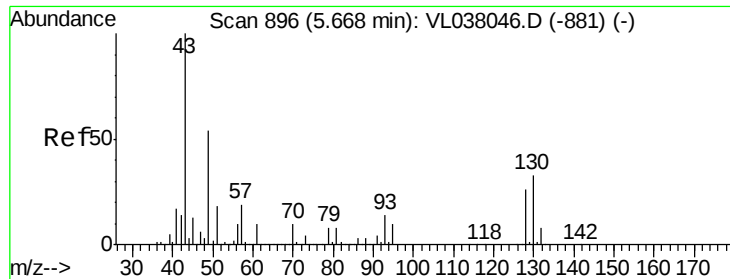
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 7 Dec 2021 12:12

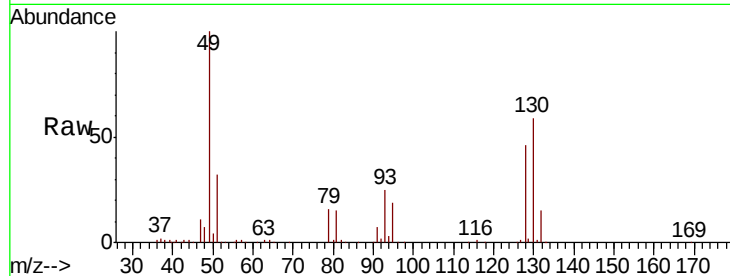
Tot Ion: 49 Resp: 908801

Ion Ratio Lower Upper

49 100

128 47.2 26.5 79.5

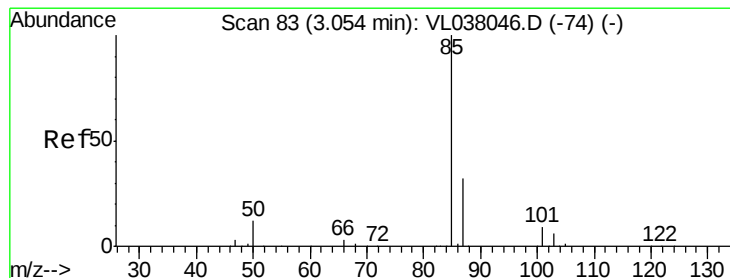
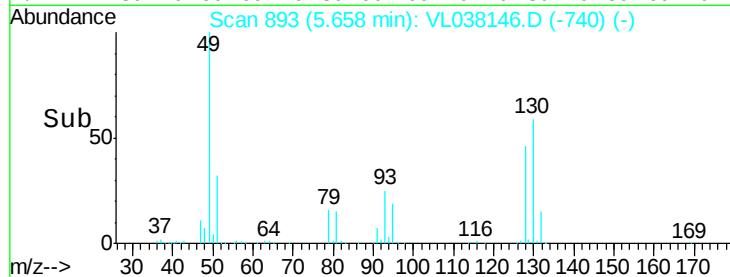
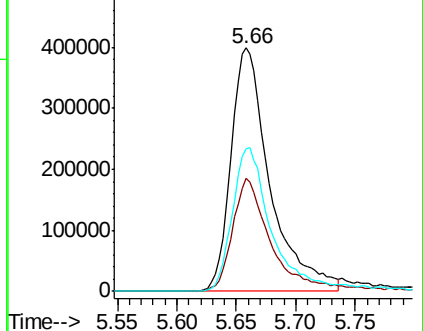
130 62.3 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.093 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL038146.D

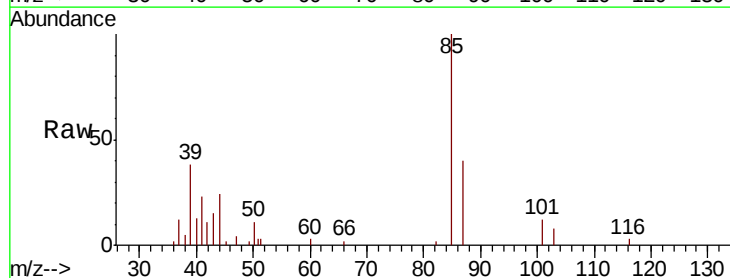
Acq: 7 Dec 2021 12:12

Tgt Ion: 85 Resp: 14000

Ion Ratio Lower Upper

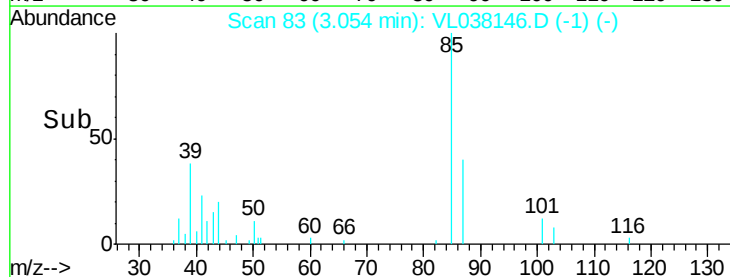
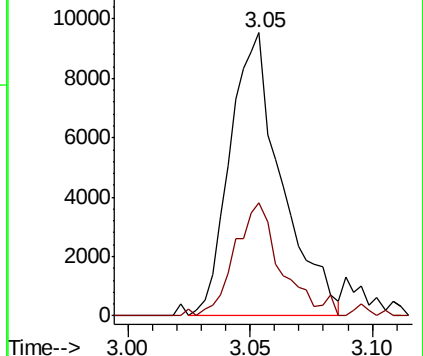
85 100

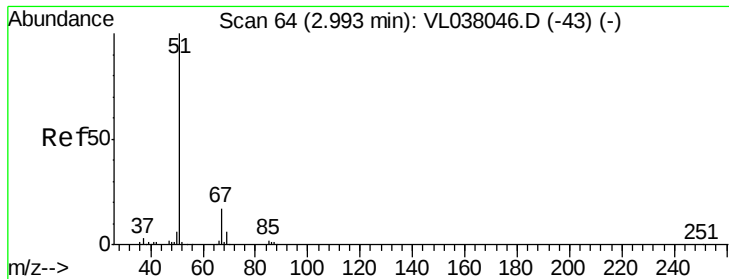
87 40.1 25.8 38.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

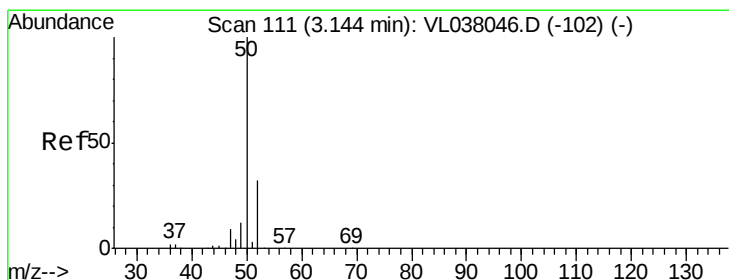
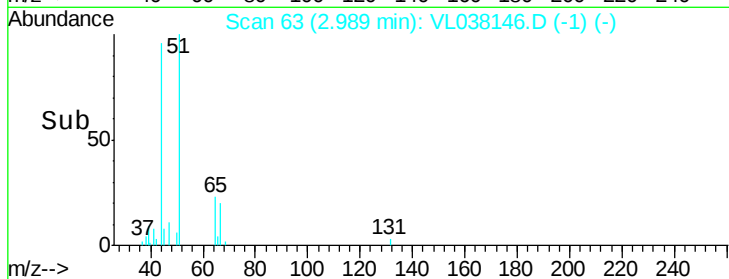
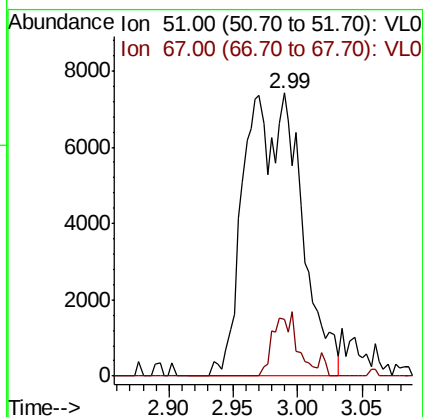
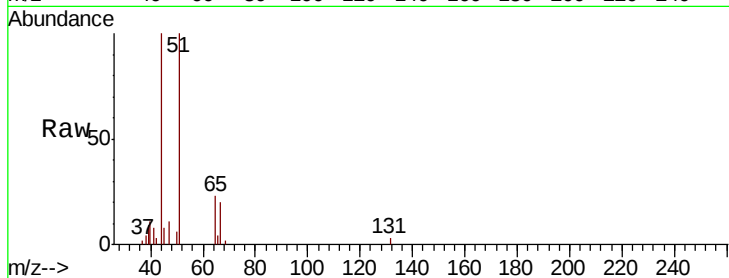
Ion 87.00 (86.70 to 87.70): VL0





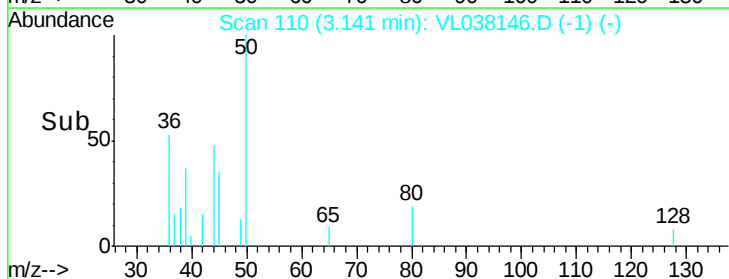
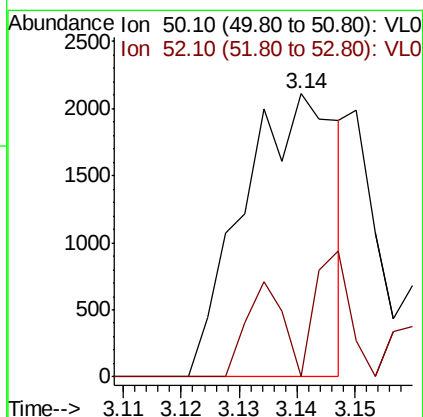
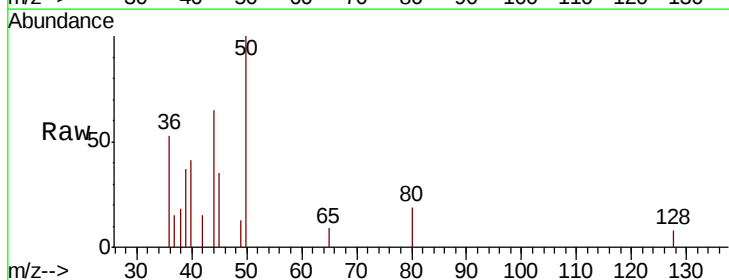
#3
 Chlorodifluoromethane
 Concen: 0.117 ppbv
 RT: 2.99
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SS-1DL
 Acq: 7 Dec 2021 12:12

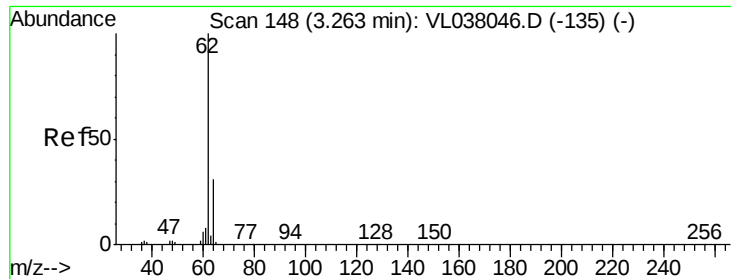
Tot Ion: 51 Resp: 22381
 Ion Ratio Lower Upper
 51 100
 67 10.5 13.8 20.8#



#4
 Chloromethane
 Concen: 0.036 ppbv
 RT: 3.14 min Scan# 110
 Delta R.T. -0.00 min
 Lab File: VL038146.D
 Acq: 7 Dec 2021 12:12

Tgt Ion: 50 Resp: 2367
 Ion Ratio Lower Upper
 50 100
 52 0.0 25.4 38.0#





#5

Vinyl Chloride

Concen: 0.035 ppbv

RT: 3.25 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

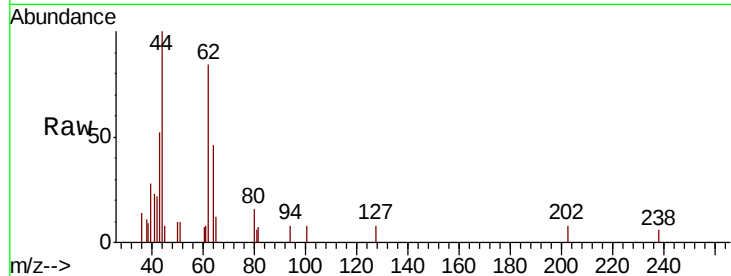
Acq: 7 Dec 2021 12:12

Tot Ion: 62 Resp: 2210

Ion Ratio Lower Upper

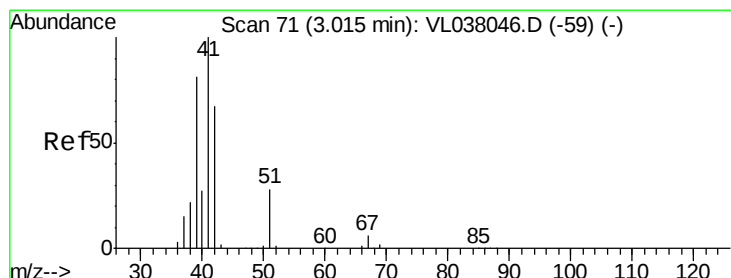
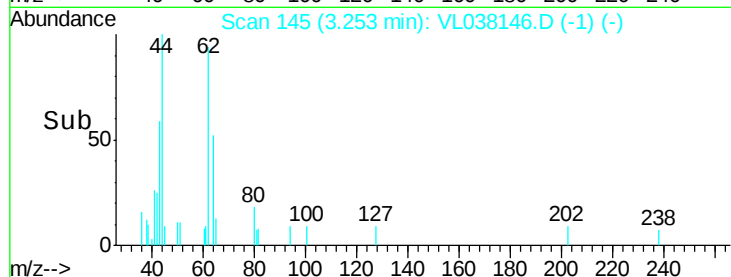
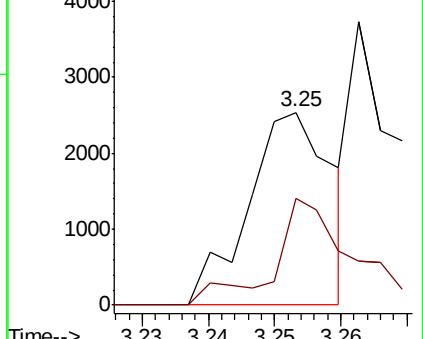
62 100

64 55.3 25.1 37.7#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#9

Propene

Concen: 0.508 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL038146.D

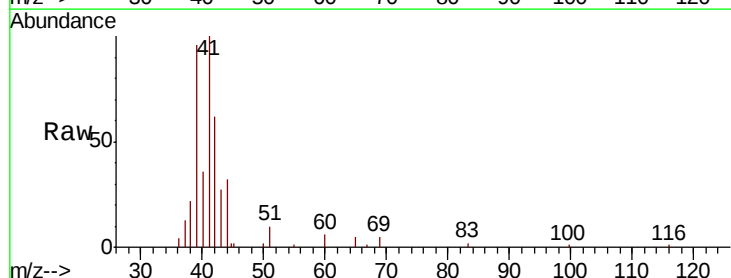
Acq: 7 Dec 2021 12:12

Tgt Ion: 41 Resp: 35680

Ion Ratio Lower Upper

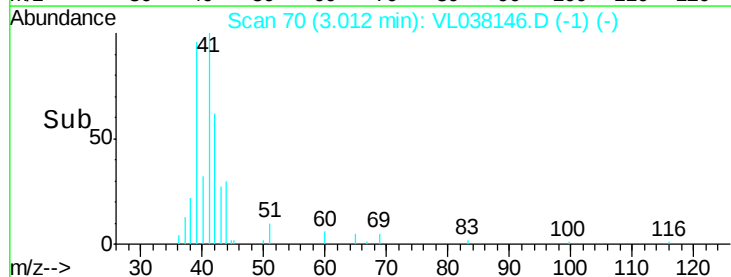
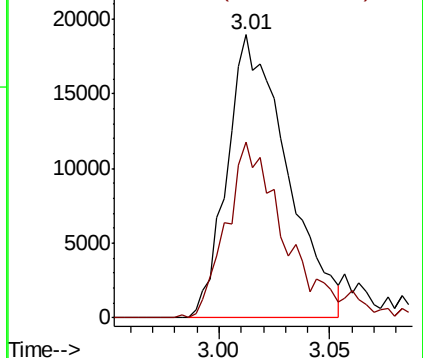
41 100

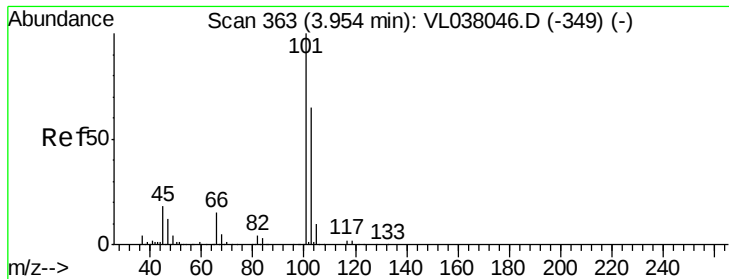
42 63.7 53.8 80.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

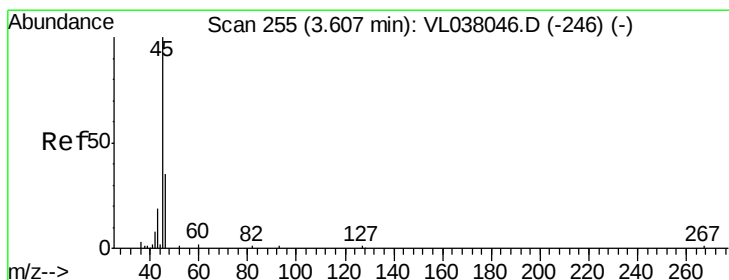
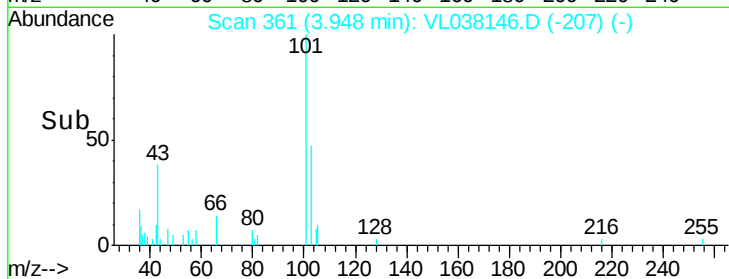
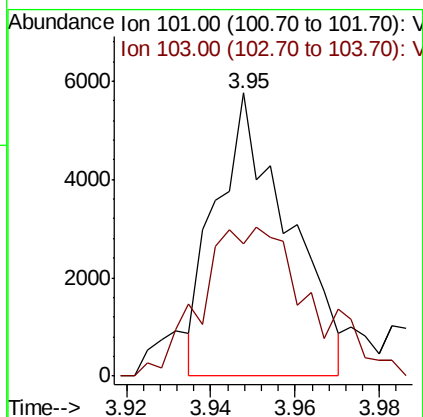
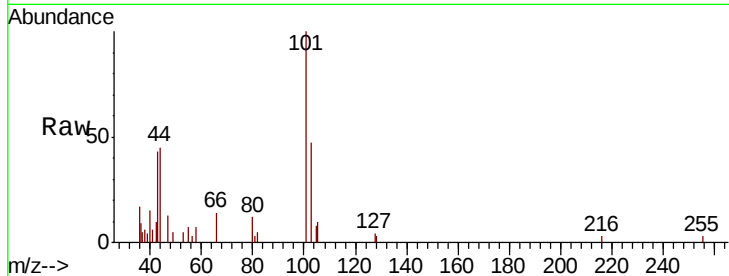
Ion 42.10 (41.80 to 42.80): VL0





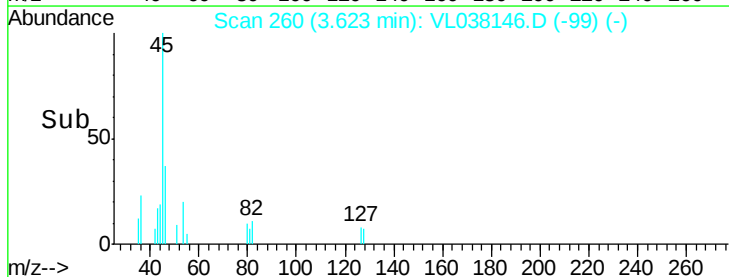
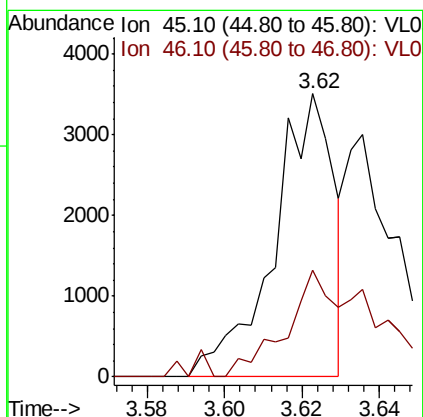
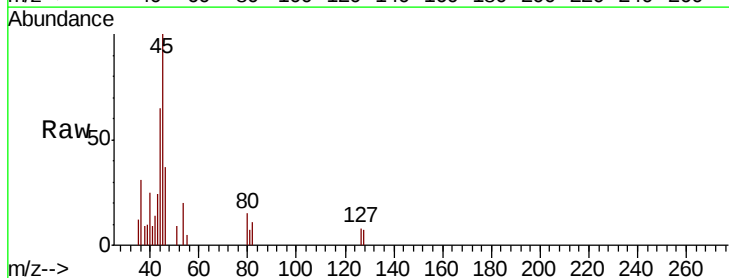
#11
 Trichlorofluoromethane
 Concen: 0.048 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SS-1DL
 Acq: 7 Dec 2021 12:12

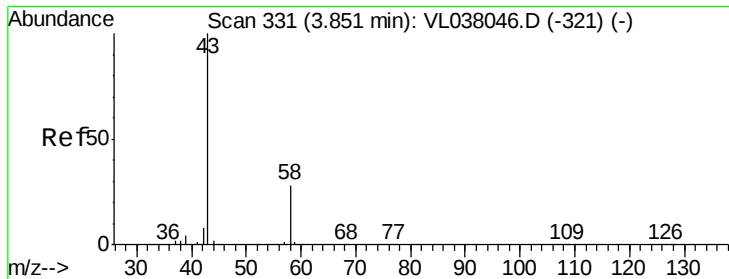
Tot Ion: 101 Resp: 6803
 Ion Ratio Lower Upper
 101 100
 103 27.0 51.8 77.6#



#13
 Ethanol
 Concen: 0.555 ppbv
 RT: 3.62 min Scan# 260
 Delta R.T. 0.02 min
 Lab File: VL038146.D
 Acq: 7 Dec 2021 12:12

Tgt Ion: 45 Resp: 3769
 Ion Ratio Lower Upper
 45 100
 46 81.5 17.6 70.2#





#15

Acetone

Concen: 0.416 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

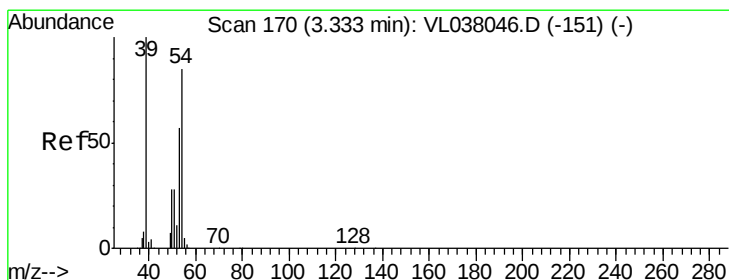
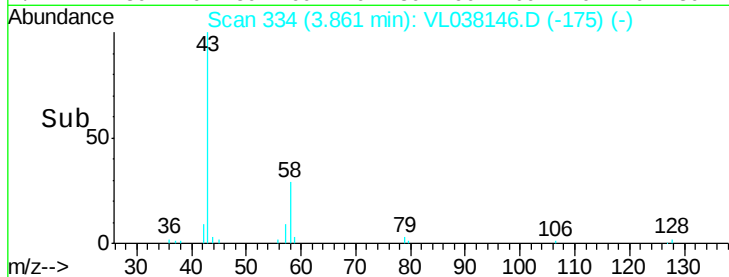
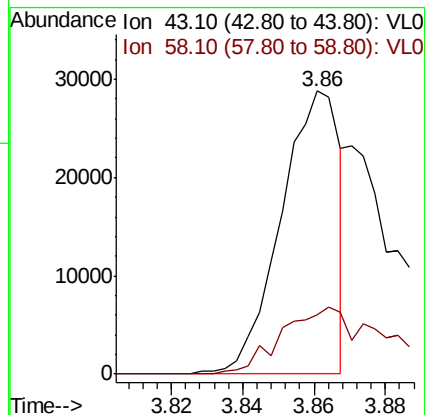
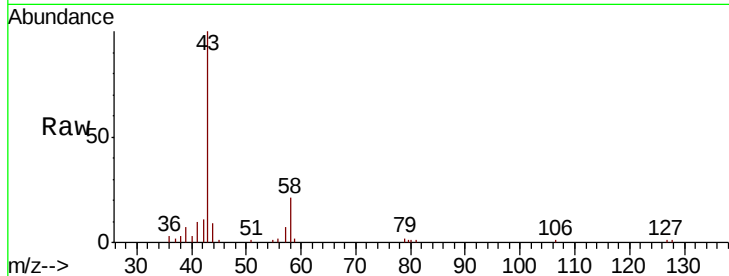
Acq: 7 Dec 2021 12:12 SS-1DL

Tot Ion: 43 Resp: 32763

Ion Ratio Lower Upper

43 100

58 58.8 22.4 33.6#



#16

1,3-Butadiene

Concen: 0.089 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.01 min

Lab File: VL038146.D

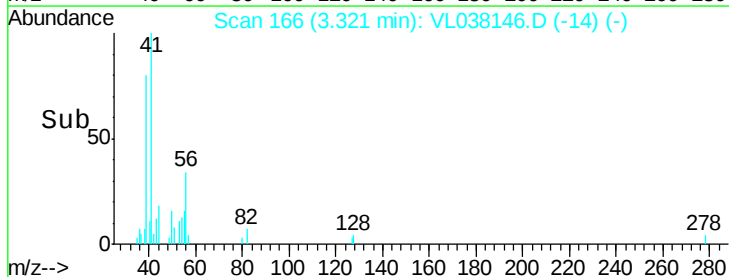
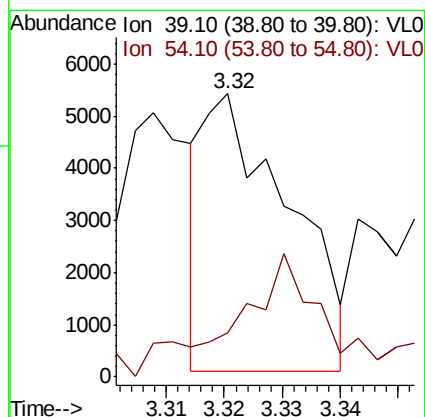
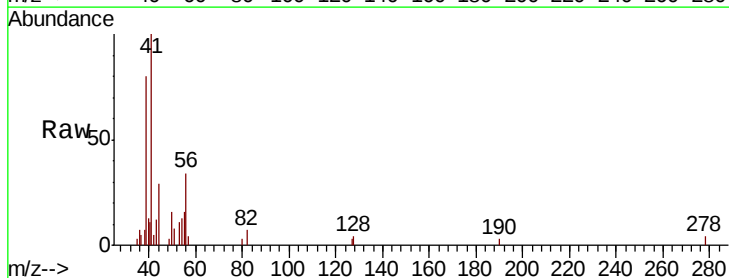
Acq: 7 Dec 2021 12:12

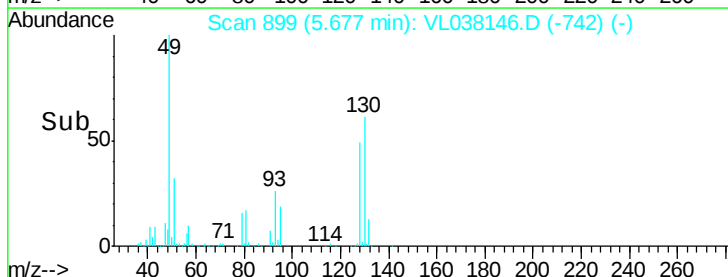
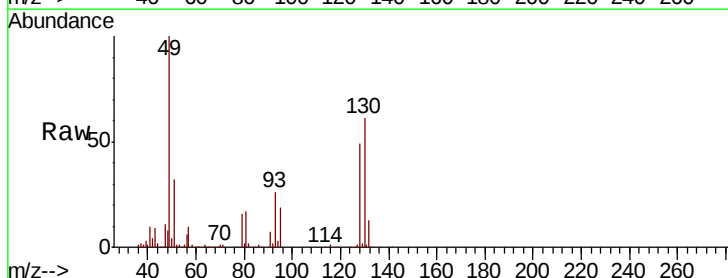
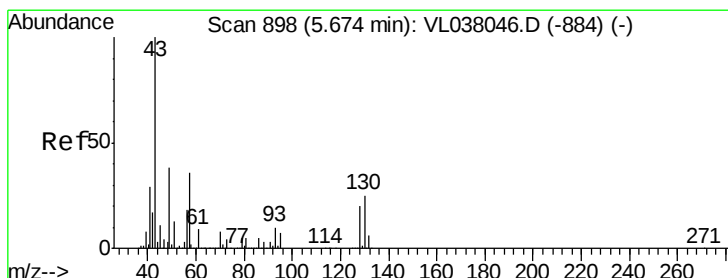
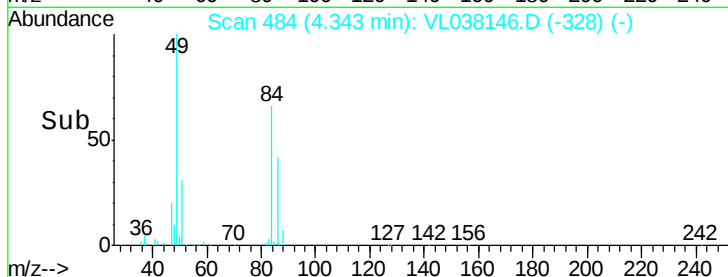
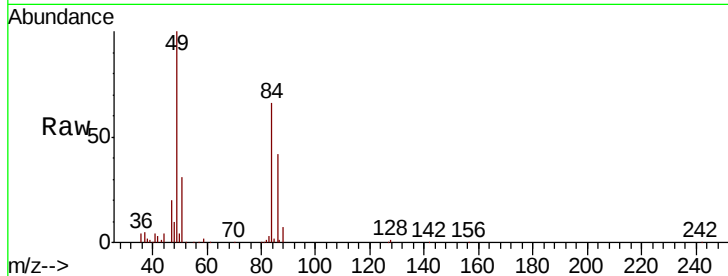
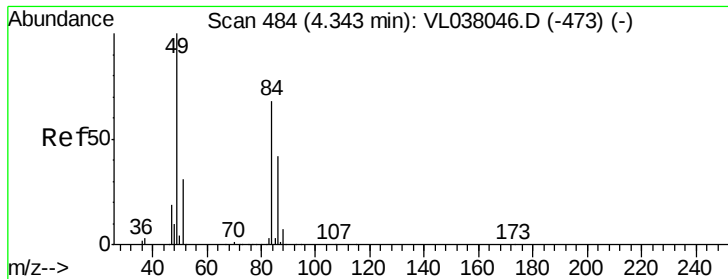
Tgt Ion: 39 Resp: 5461

Ion Ratio Lower Upper

39 100

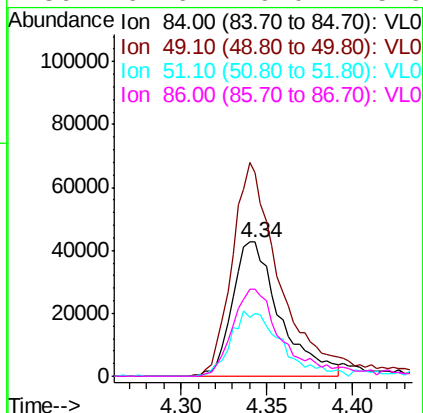
54 58.9 64.4 96.6#





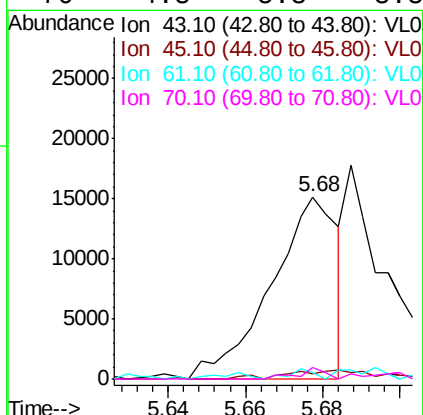
#20
Methvlene Chloride
Concen: 1.861 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 12:12

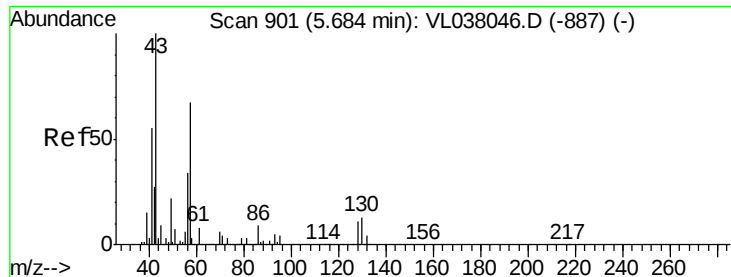
Tot Ion	84	Resp	82125
Ion	Ratio	Lower	Upper
84	100		
49	152.1	118.2	177.2
51	47.2	36.8	55.2
86	64.6	49.0	73.6



#25
Ethyl Acetate
Concen: 0.069 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL038146.D
Acq: 7 Dec 2021 12:12

Tgt Ion	43	Resp	17941
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.9	11.9#
61	0.0	7.8	11.6#
70	4.8	5.8	8.8#





#26

Hexane

Concen: 0.295 ppbv

RT: 5.68

Delta R.T.

Lab File:

Acq: 7 Dec 2021 12:12

Instrument:

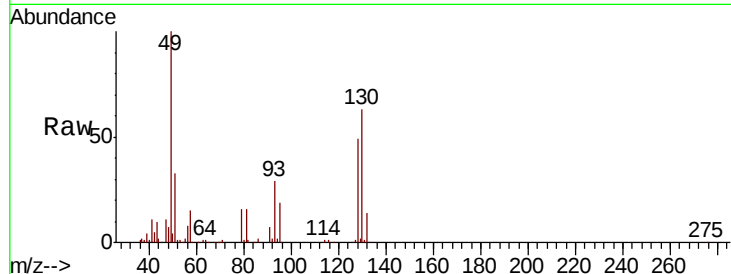
MSVOA_1

ClientSampleId:

SS-1DL

Tot Ion: 57 Resp: 37190

Ion	Ratio	Lower	Upper
57	100		
41	98.1	71.4	107.2
43	100.9	174.6	261.8#
56	60.5	43.2	64.8

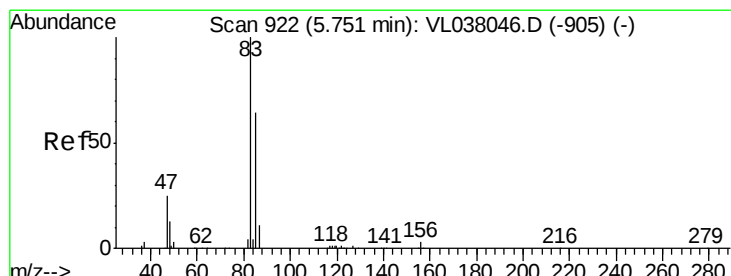
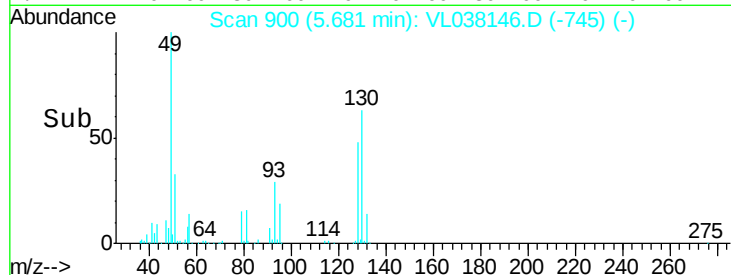
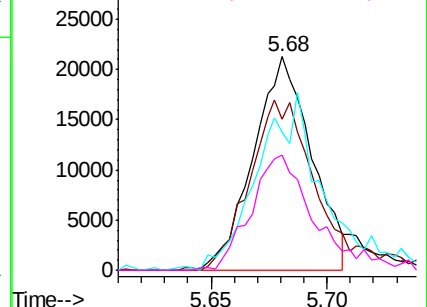


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29

Chloroform

Concen: 0.037 ppbv

RT: 5.74 min Scan# 919

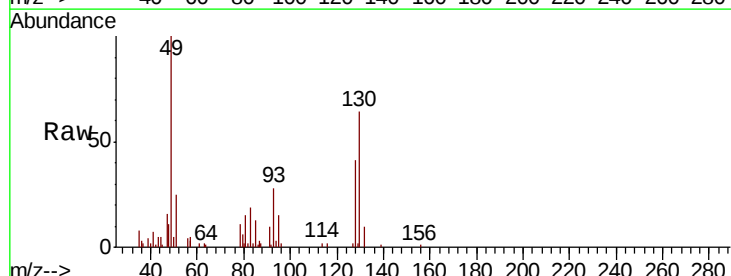
Delta R.T. -0.01 min

Lab File: VL038146.D

Acq: 7 Dec 2021 12:12

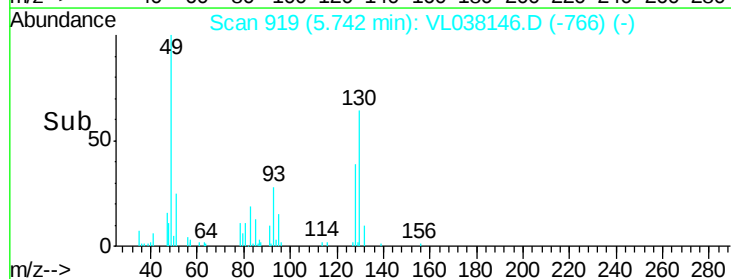
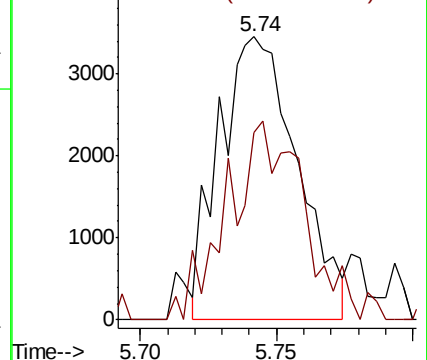
Tgt Ion: 83 Resp: 6847

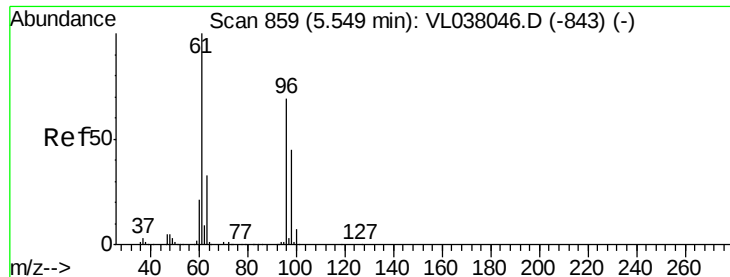
Ion	Ratio	Lower	Upper
83	100		
85	51.2	51.0	76.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

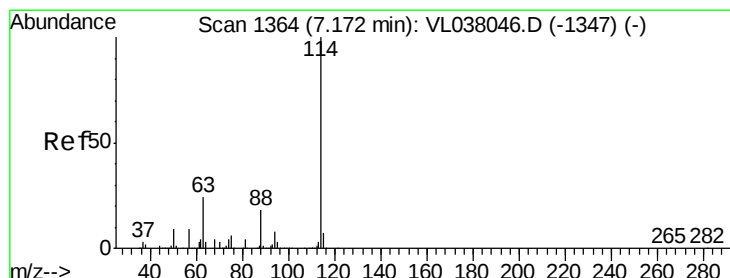
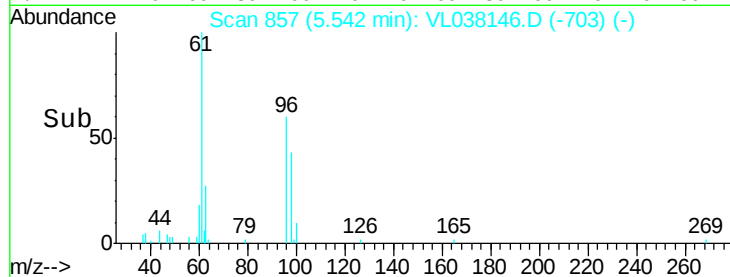
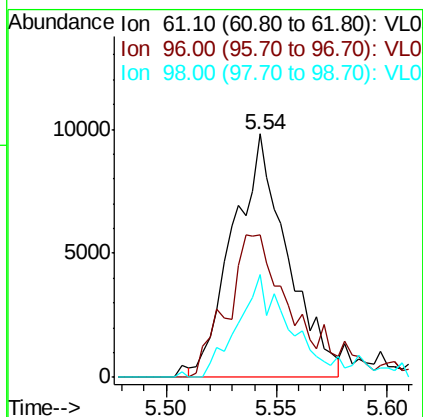
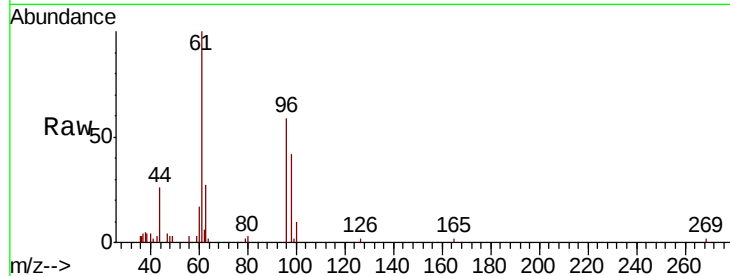
Ion 85.00 (84.70 to 85.70): VL0





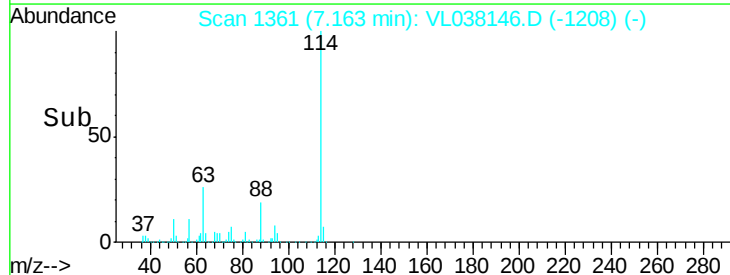
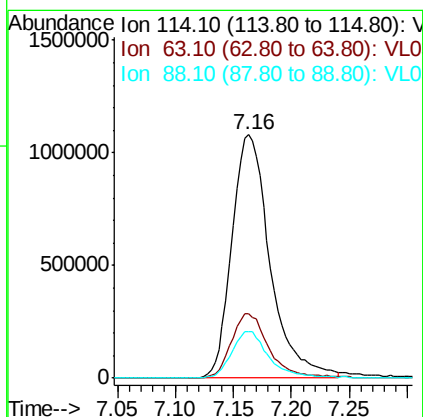
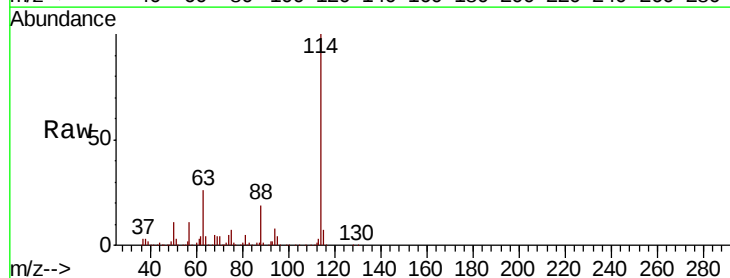
#31
 cis-1,2-Dichloroethene
 Concen: 0.140 ppbv
 RT: 5.54
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SS-IDL
 Acq: 7 Dec 2021 12:12

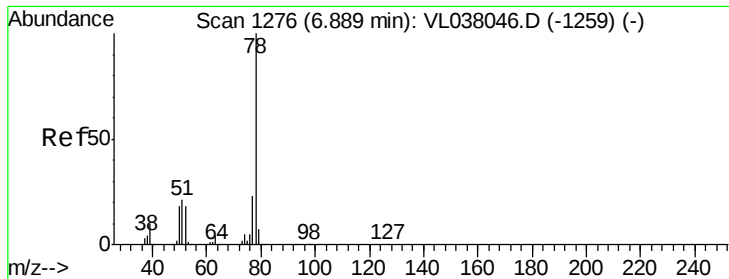
Tot Ion	61	Resp	16843
Ion Ratio	Lower	Upper	
61	100		
96	60.9	55.4	83.2
98	43.8	35.7	53.5



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.01 min
 Lab File: VL038146.D
 Acq: 7 Dec 2021 12:12

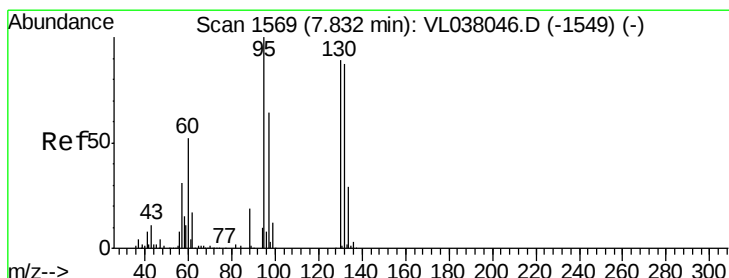
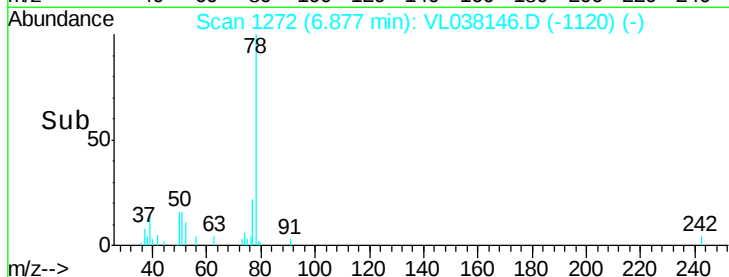
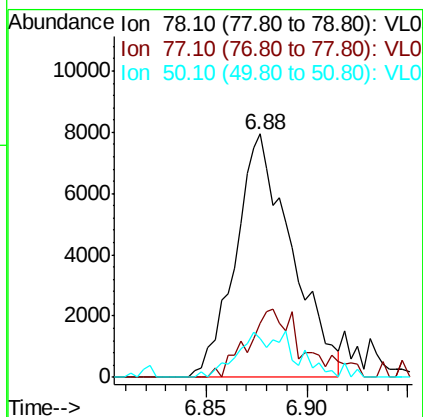
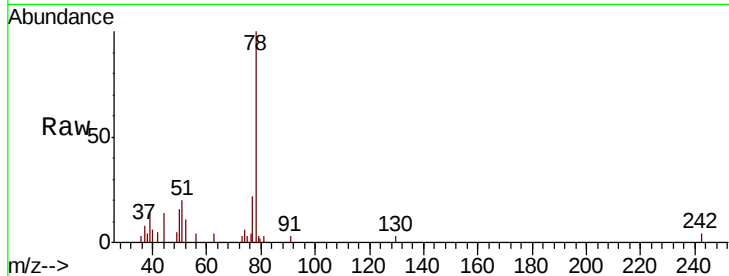
Tgt Ion	114	Resp	2467567
Ion Ratio	Lower	Upper	
114	100		
63	26.5	19.7	29.5
88	19.0	14.4	21.6





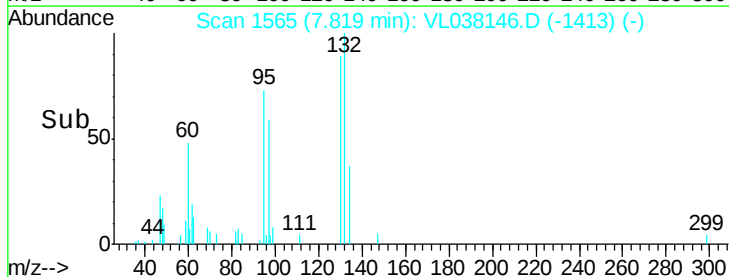
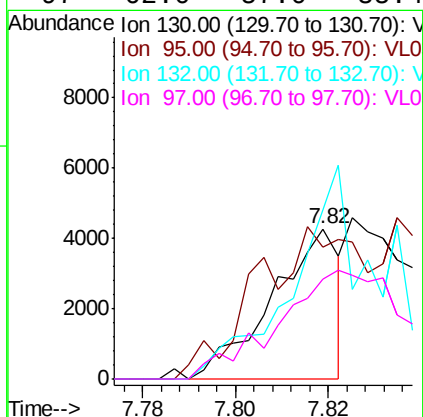
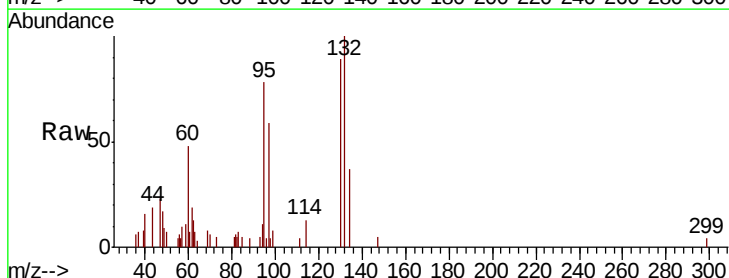
#36
Benzene
Concen: 0.062 ppbv
RT: 6.88
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 12:12

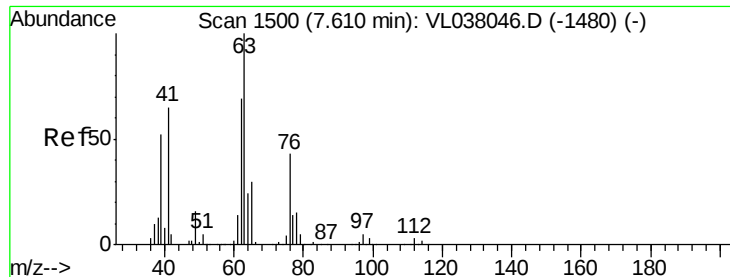
Tot Ion	78	Resp	15362
Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.2	27.4
50	15.7	14.7	22.1



#38
Trichloroethene
Concen: 0.046 ppbv
RT: 7.82 min Scan# 1565
Delta R.T.: -0.01 min
Lab File: VL038146.D
Acq: 7 Dec 2021 12:12

Tgt Ion	130	Resp	4295
Ion	Ratio	Lower	Upper
130	100		
95	77.5	89.4	134.2#
132	112.1	78.2	117.2
97	62.0	57.0	85.4





#39

1,2-Dichloropropane

Concen: 6.715 ppbv

RT: 7.16 Instrument:

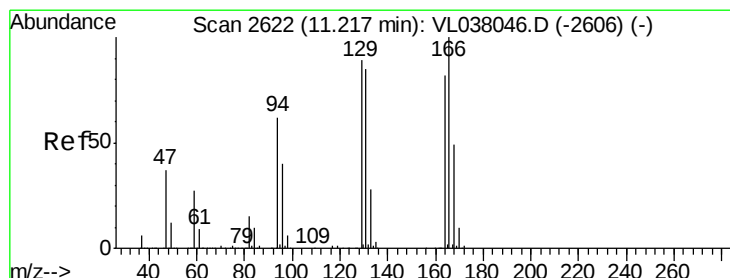
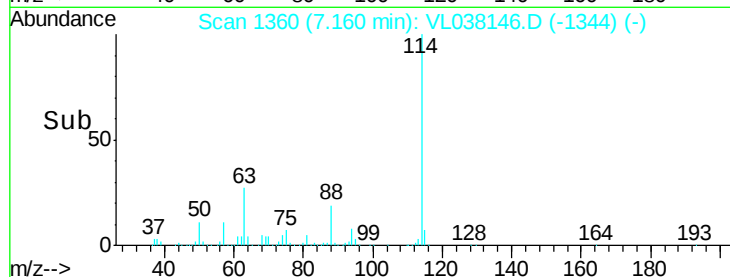
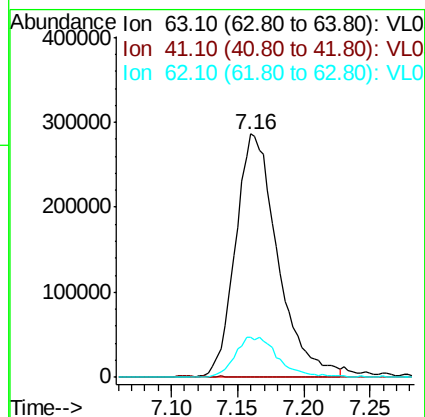
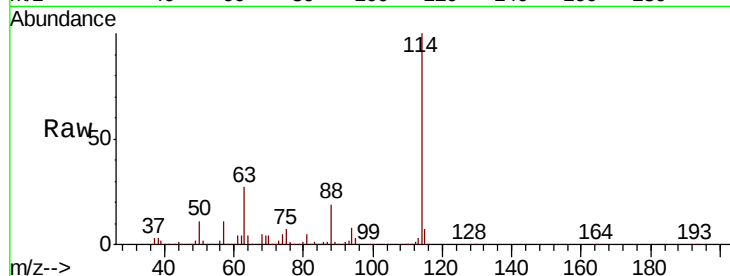
Delta R.T. MSVOA_L

Lab File: ClientSampled:

Acq: 7 Dec 2021 12:12 SS-1DL

Tot Ion: 63 Resp: 634059

Ion	Ratio	Lower	Upper
63	100		
41	0.1	52.3	78.5#
62	16.6	55.1	82.7#



#52

Tetrachloroethene

Concen: 0.100 ppbv

RT: 11.19 min Scan# 2615

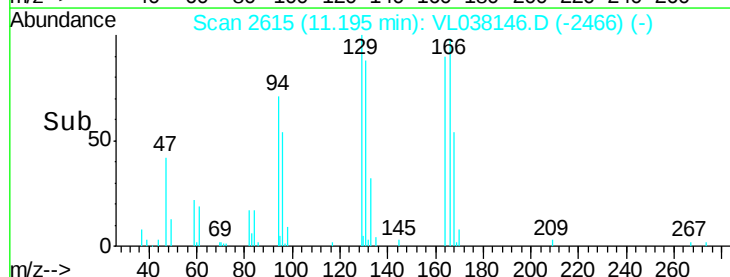
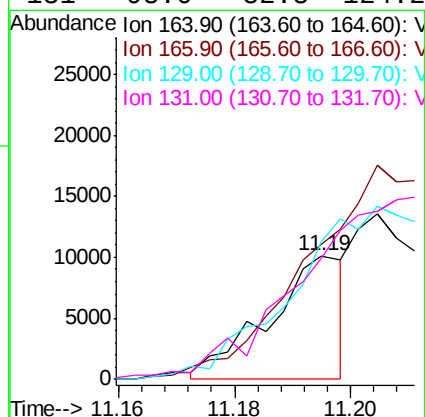
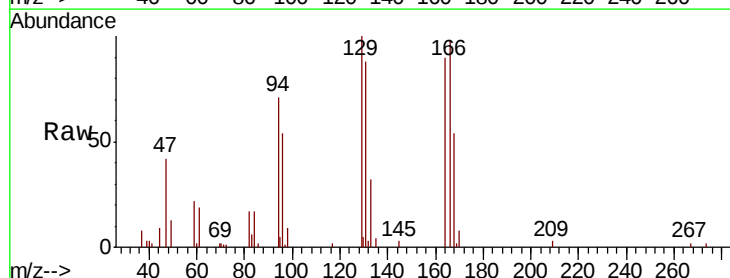
Delta R.T. -0.02 min

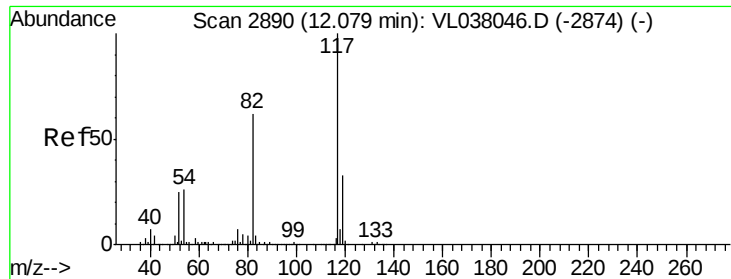
Lab File: VL038146.D

Acq: 7 Dec 2021 12:12

Tgt Ion:164 Resp: 9128

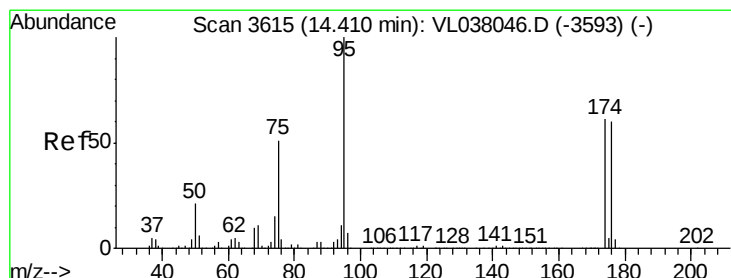
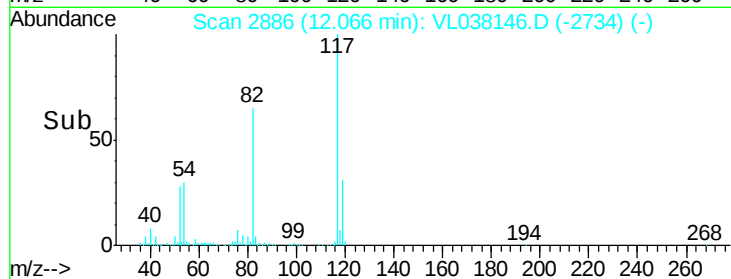
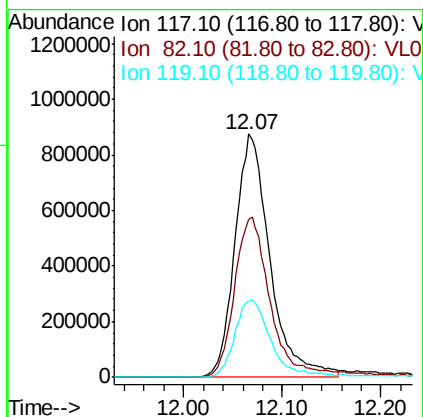
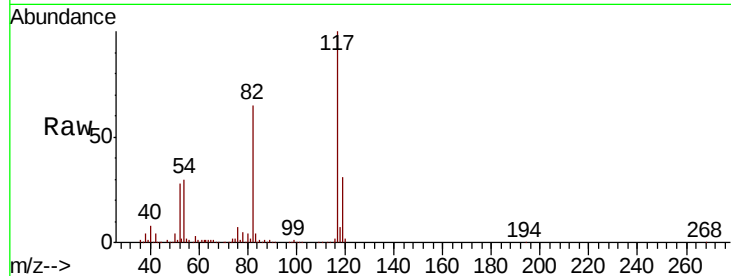
Ion	Ratio	Lower	Upper
164	100		
166	105.6	97.2	145.8
129	112.2	86.9	130.3
131	98.0	82.8	124.2





#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 SS-1DL
 Acq: 7 Dec 2021 12:12

Tot Ion:117 Resp: 2157685
 Ion Ratio Lower Upper
 117 100
 82 71.2 52.8 79.2
 119 34.1 26.8 40.2



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.766 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T.: -0.01 min
 Lab File: VL038146.D
 Acq: 7 Dec 2021 12:12

Tgt Ion: 95 Resp: 1675528
 Ion Ratio Lower Upper
 95 100
 174 61.9 53.1 79.7
 175 4.2 4.0 6.0

