

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062422\
 Data File : VL039346.D
 Acq On : 24 Jun 2022 18:22
 Operator : SY/AP
 Sample : N3489-04 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3-20220622DL

Quant Time: Jun 27 01:50:31 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1234492	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3398848	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3006396	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2270166	9.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.30%

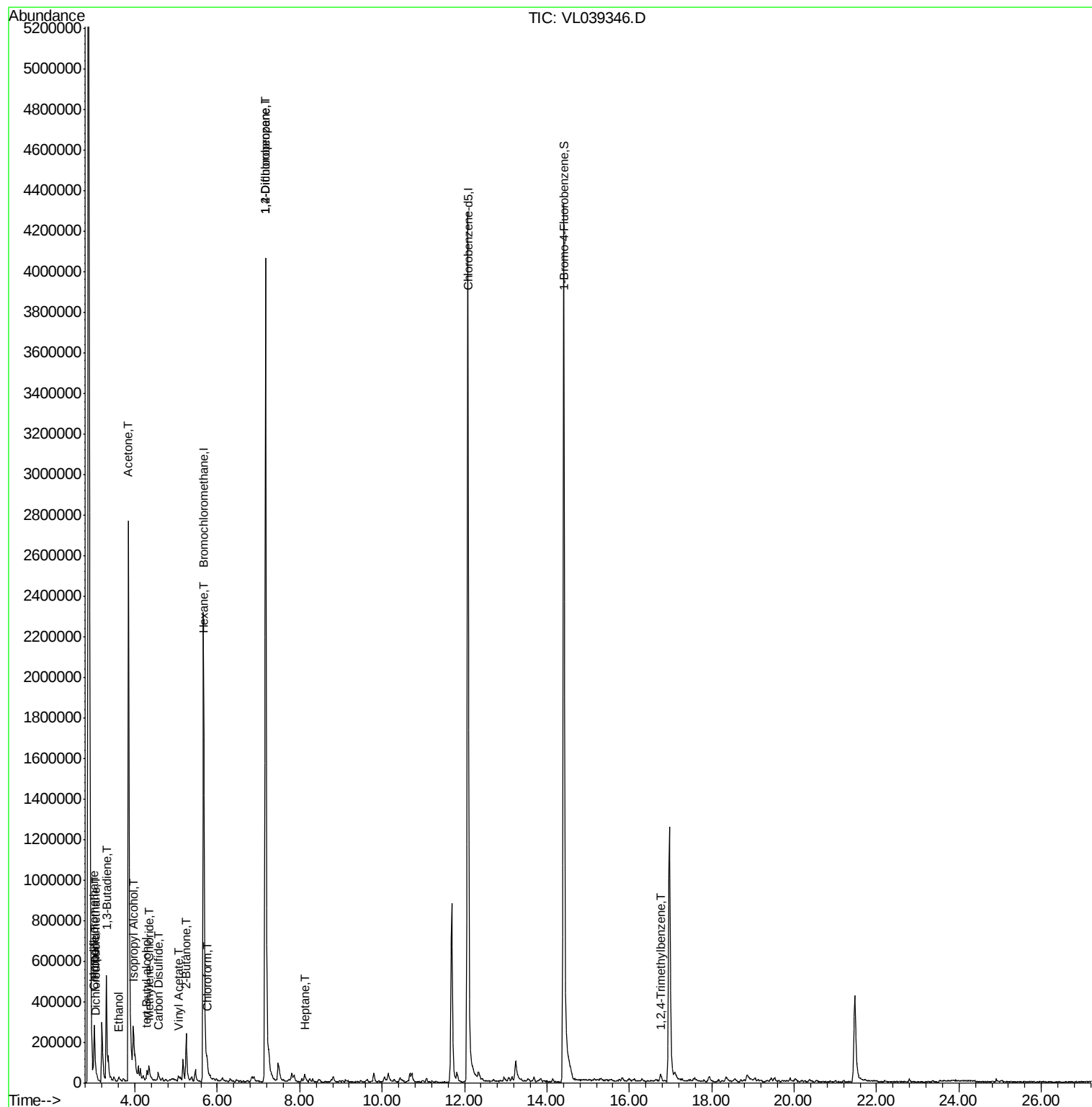
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	25478	0.118	ppbv	91
3) Chlorodifluoromethane	3.00	51	9342	0.059	ppbv	98
9) Propene	3.02	41	130080	1.899	ppbv	89
10) Heptane	8.12	43	11164	0.070	ppbv #	52
13) Ethanol	3.60	45	7948	2.128	ppbv #	100
15) Acetone	3.84	43	3714694	28.887	ppbv	98
16) 1,3-Butadiene	3.31	39	160012	2.315	ppbv #	18
17) tert-Butyl alcohol	4.28	59	6593	0.066	ppbv #	70
19) Isopropyl Alcohol	3.96	45	304556	5.049	ppbv #	93
20) Methylene Chloride	4.34	84	11253	0.208	ppbv	93
23) Vinyl Acetate	5.06	43	17349	0.163	ppbv #	78
26) Hexane	5.68	57	16933	0.133	ppbv #	27
27) Carbon Disulfide	4.55	76	5892	0.045	ppbv #	64
29) Chloroform	5.75	83	39916	0.186	ppbv	90
34) 2-Butanone	5.24	43	301555	1.633	ppbv	97
39) 1,2-Dichloropropane	7.17	63	836649	7.623	ppbv #	25
74) 1,2,4-Trimethylbenzene	16.76	105	16338	0.040	ppbv #	67

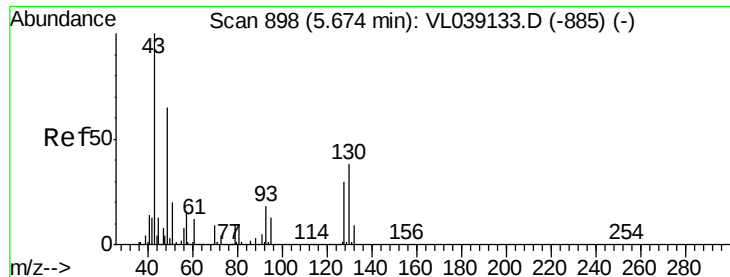
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV-3-20220622DL

Acq: 24 Jun 2022 18:22

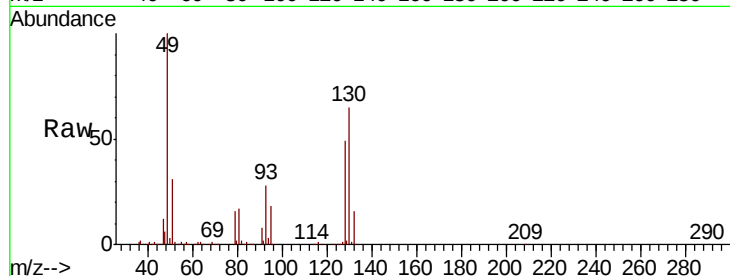
Tot Ion: 49 Resp: 1234492

Ion	Ratio	Lower	Upper
49	100		
128	52.5	24.7	74.1
130	68.0	31.4	94.0

49 100

128 52.5 24.7 74.1

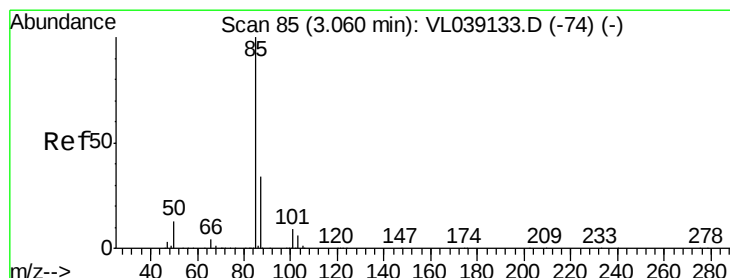
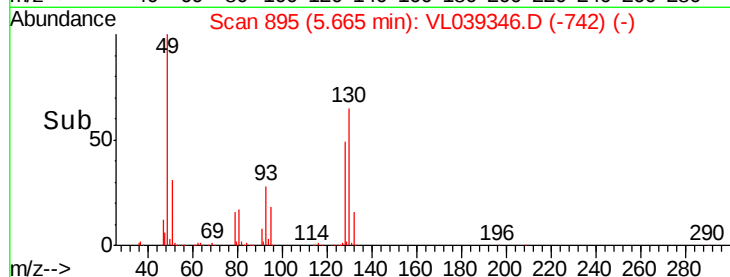
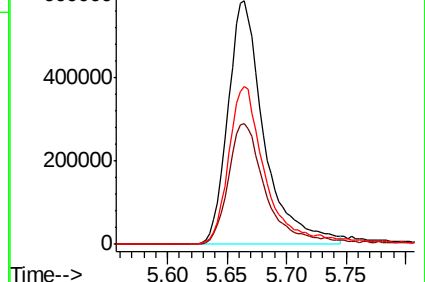
130 68.0 31.4 94.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.118 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL039346.D

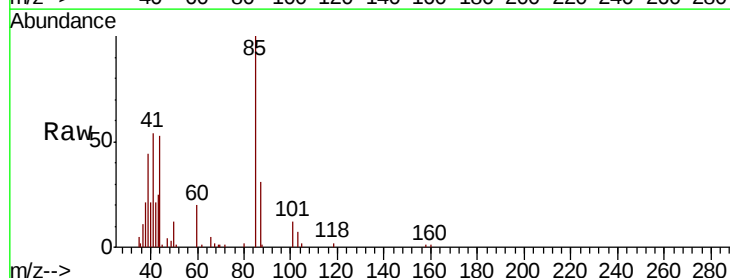
Acq: 24 Jun 2022 18:22

Tgt Ion: 85 Resp: 25478

Ion	Ratio	Lower	Upper
85	100		
87	28.5	26.9	40.3

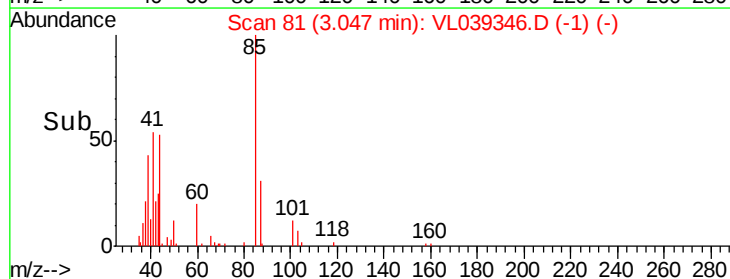
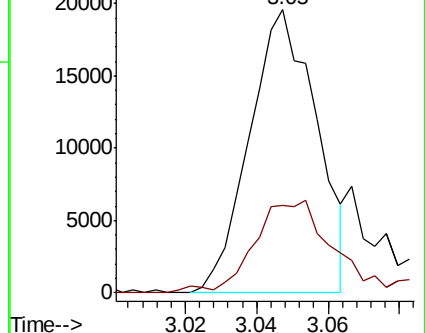
85 100

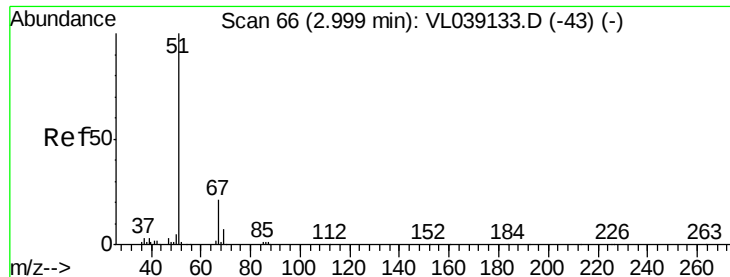
87 28.5 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.059 ppbv

RT: 3.00 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV-3-20220622DL

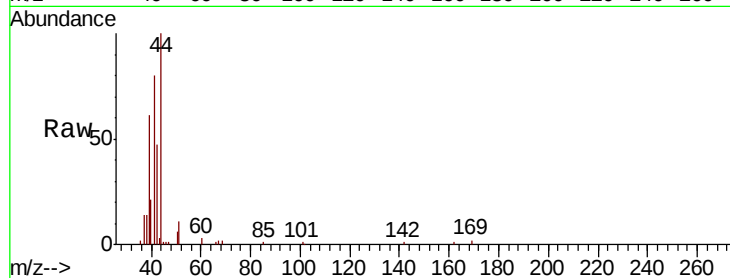
Acq: 24 Jun 2022 18:22

Tot Ion: 51 Resp: 9342

Ion Ratio Lower Upper

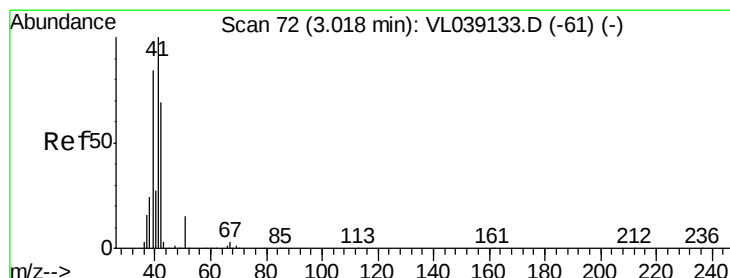
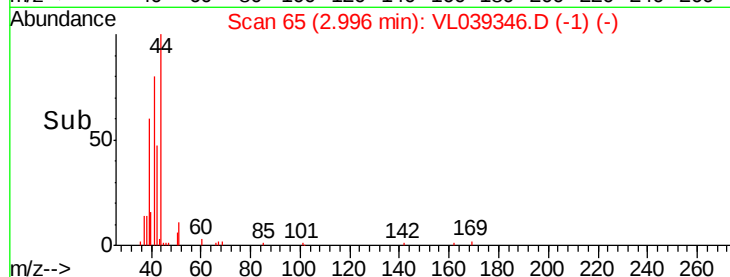
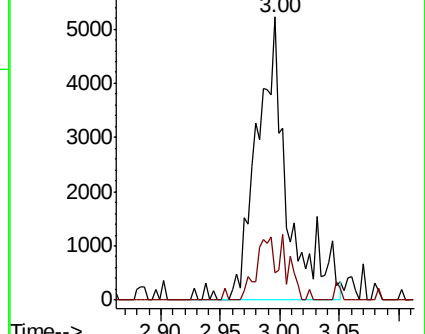
51 100

67 21.0 16.2 24.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 1.899 ppbv

RT: 3.02 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL039346.D

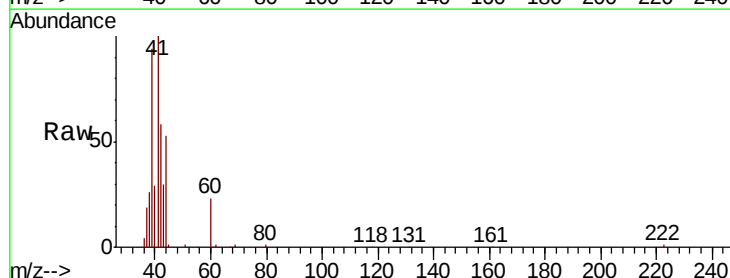
Acq: 24 Jun 2022 18:22

Tgt Ion: 41 Resp: 130080

Ion Ratio Lower Upper

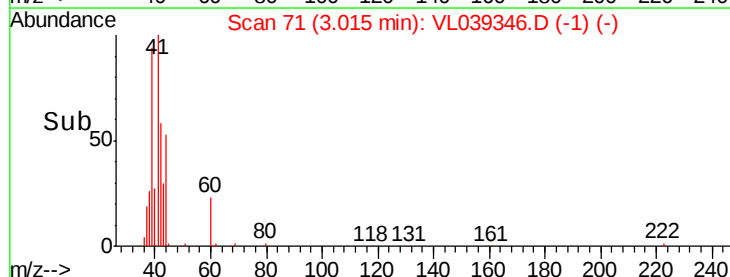
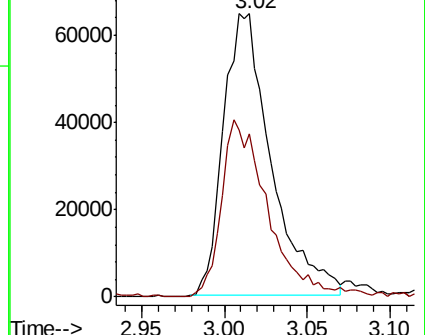
41 100

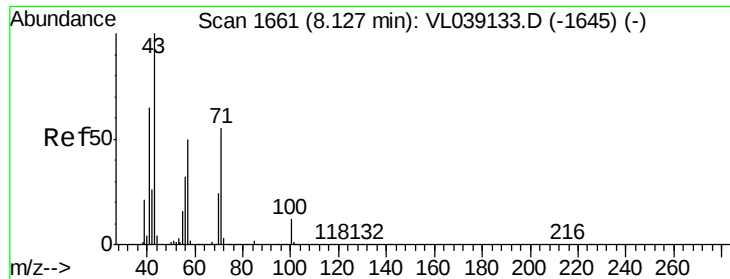
42 60.1 55.4 83.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

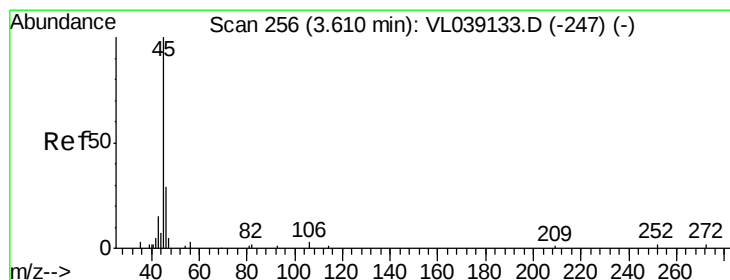
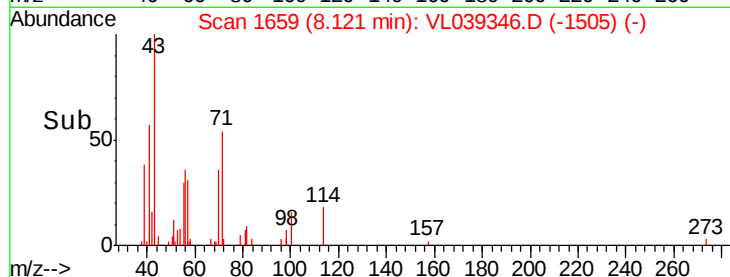
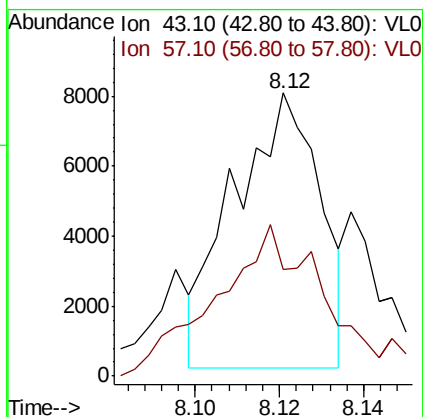
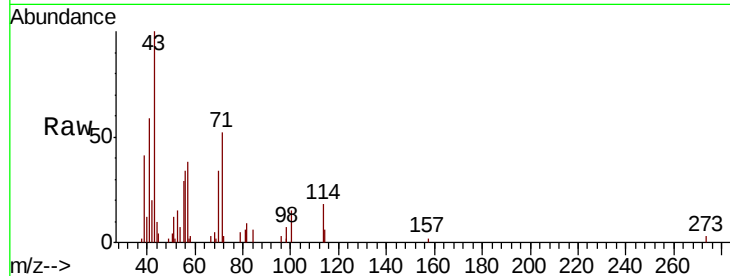
Ion 42.10 (41.80 to 42.80): VL0





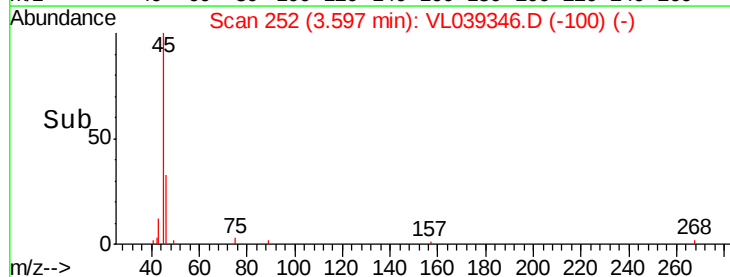
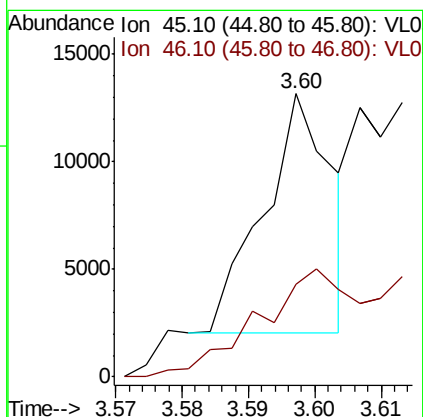
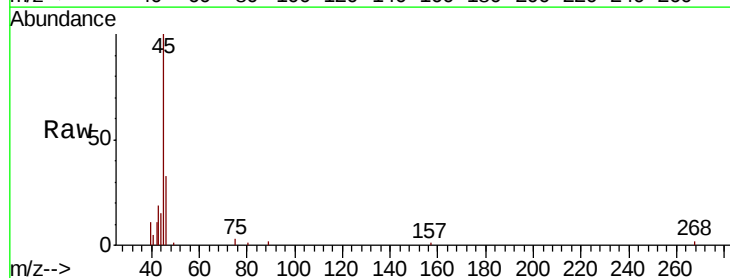
#10
 Heptane
 Concen: 0.070 ppbv
 RT: 8.12
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-3-20220622DL
 Acq: 24 Jun 2022 18:22

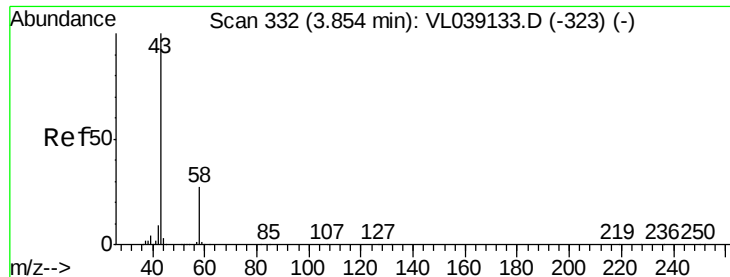
Tot Ion: 43 Resp: 11164
 Ion Ratio Lower Upper
 43 100
 57 85.5 41.4 62.2#



#13
 Ethanol
 Concen: 2.128 ppbv
 RT: 3.60 min Scan# 252
 Delta R.T. -0.01 min
 Lab File: VL039346.D
 Acq: 24 Jun 2022 18:22

Tgt Ion: 45 Resp: 7948
 Ion Ratio Lower Upper
 45 100
 46 190.1 0.0 0.0#





#15

Acetone

Concen: 28.887 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

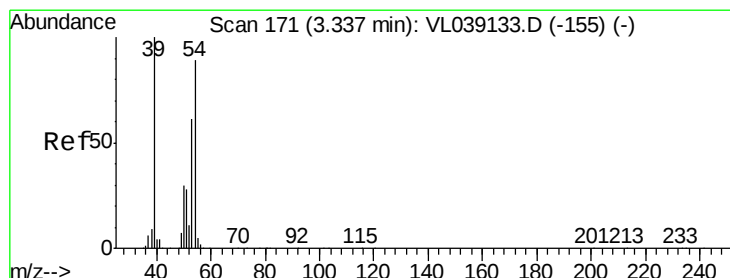
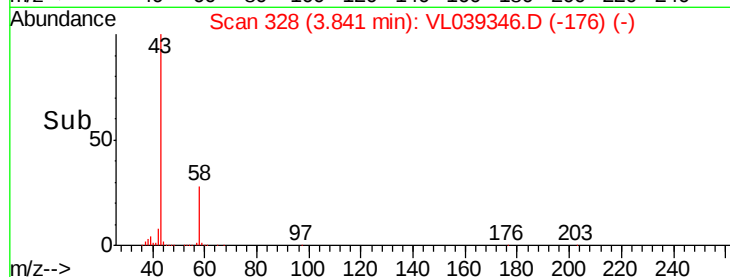
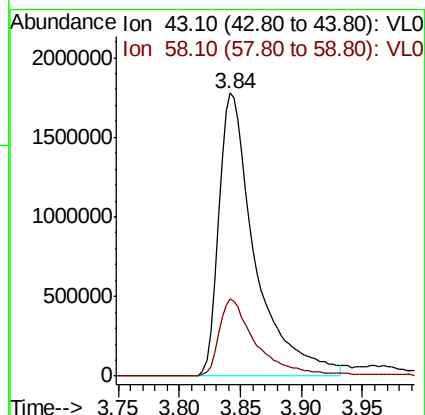
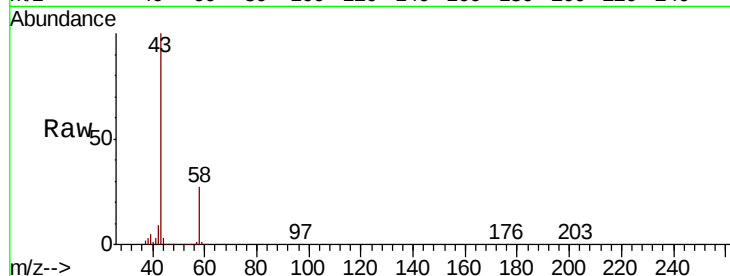
Acq: 24 Jun 2022 18:22 SV-3-20220622DL

Tot Ion: 43 Resp: 3714694

Ion Ratio Lower Upper

43 100

58 29.2 22.5 33.7



#16

1,3-Butadiene

Concen: 2.315 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.02 min

Lab File: VL039346.D

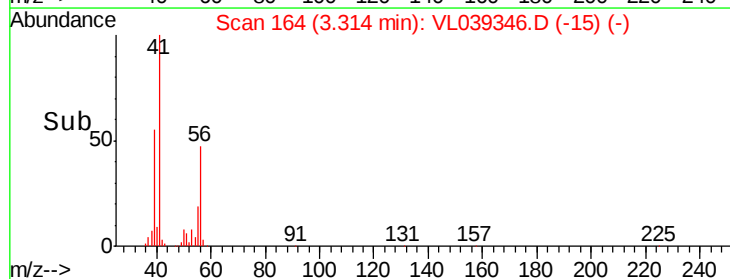
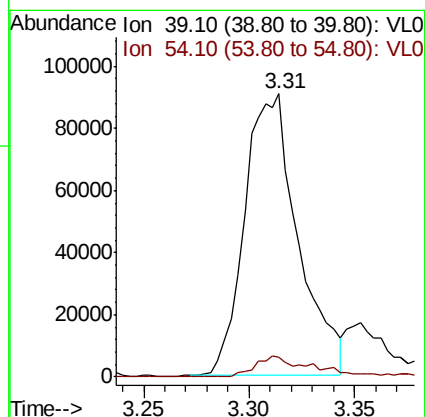
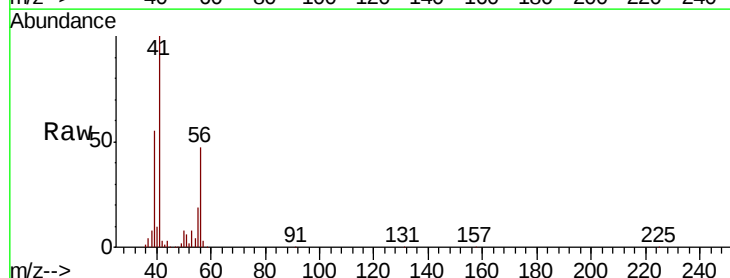
Acq: 24 Jun 2022 18:22

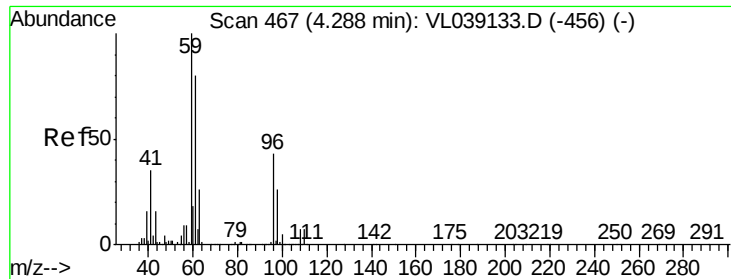
Tgt Ion: 39 Resp: 160012

Ion Ratio Lower Upper

39 100

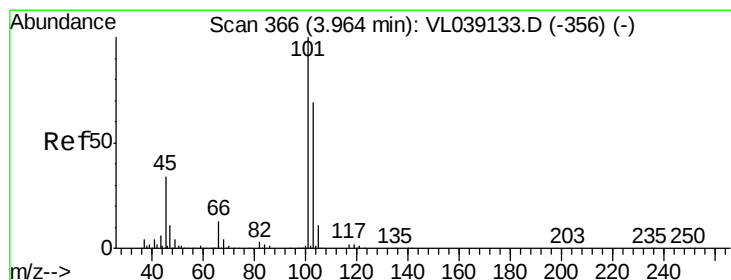
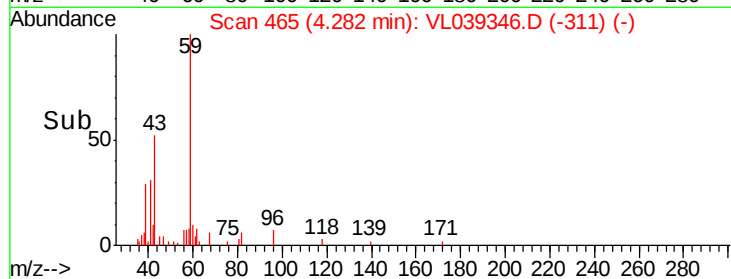
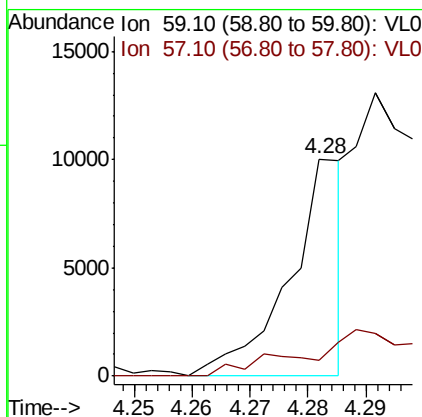
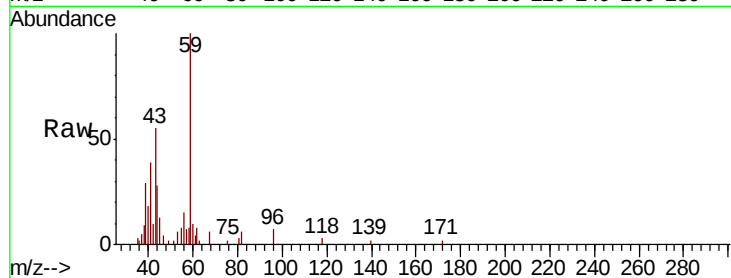
54 8.4 65.8 98.6#





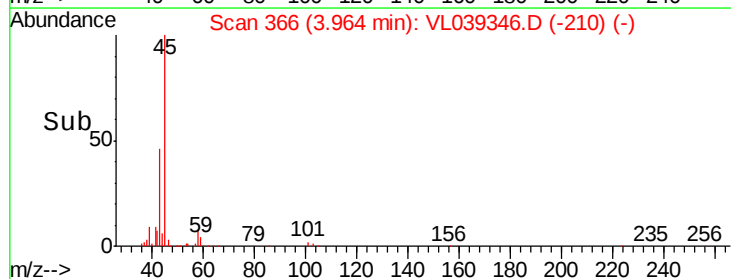
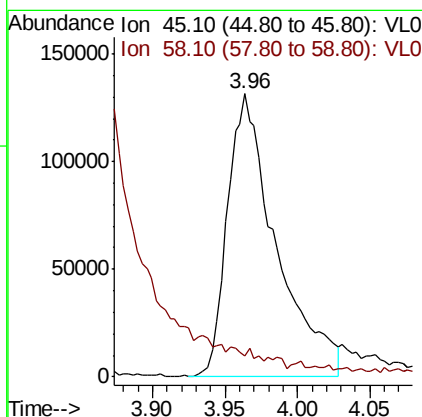
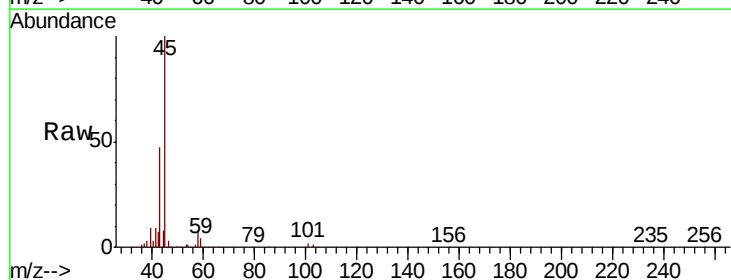
#17
 tert-Butyl alcohol
 Concen: 0.066 ppbv
 RT: 4.28
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-3-20220622DL
 Acq: 24 Jun 2022 18:22

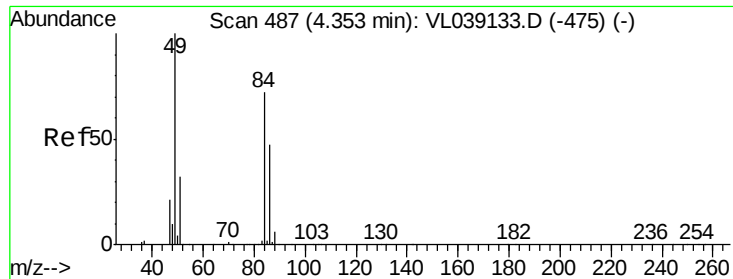
Tot Ion: 59 Resp: 6593
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.1 13.7#



#19
 Isopropyl Alcohol
 Concen: 5.049 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.00 min
 Lab File: VL039346.D
 Acq: 24 Jun 2022 18:22

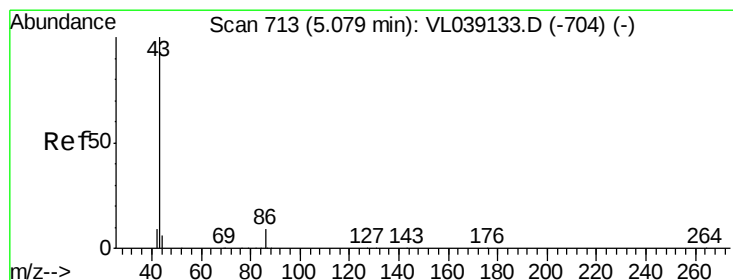
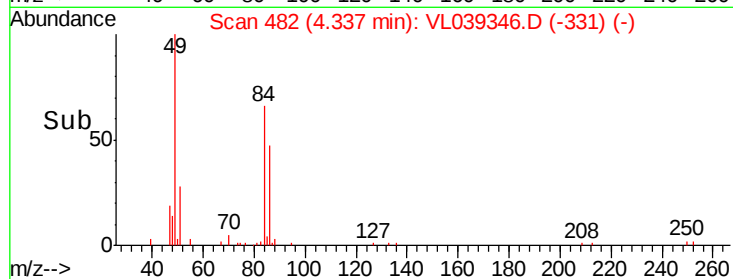
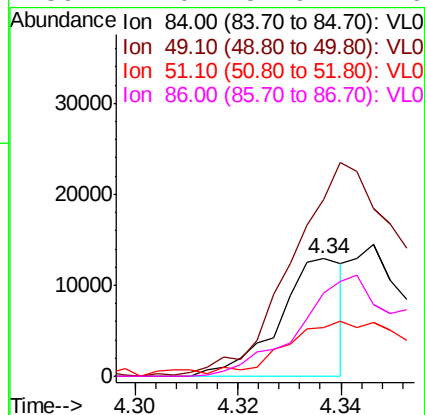
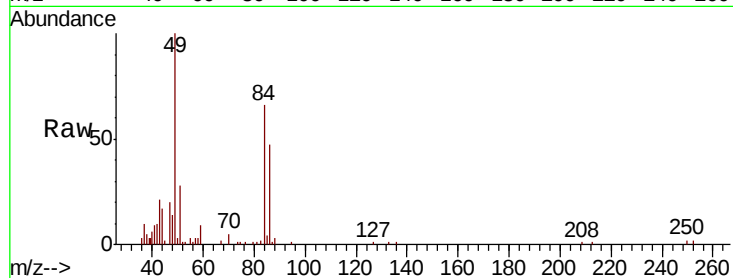
Tgt Ion: 45 Resp: 304556
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.8 2.8#





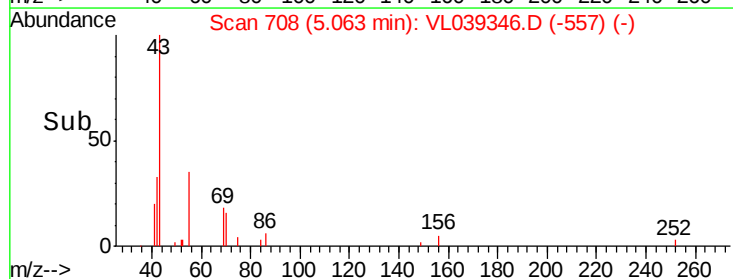
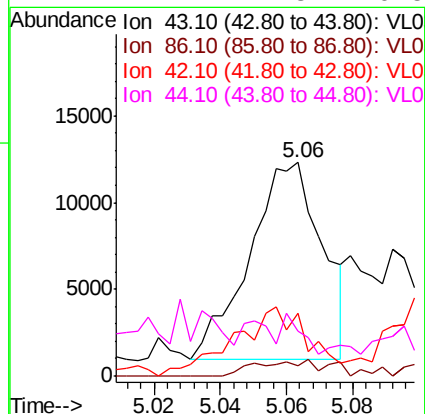
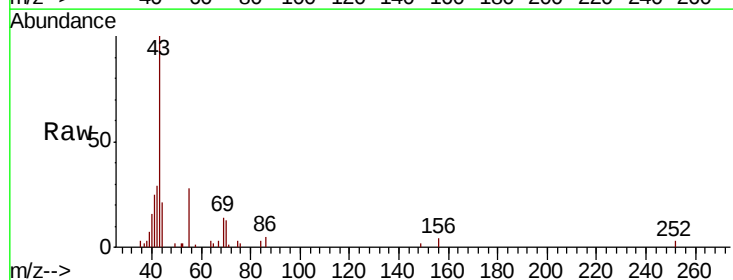
#20
Methvlene Chloride
Concen: 0.208 ppbv
RT: 4.34
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV-3-20220622DL
Acq: 24 Jun 2022 18:22

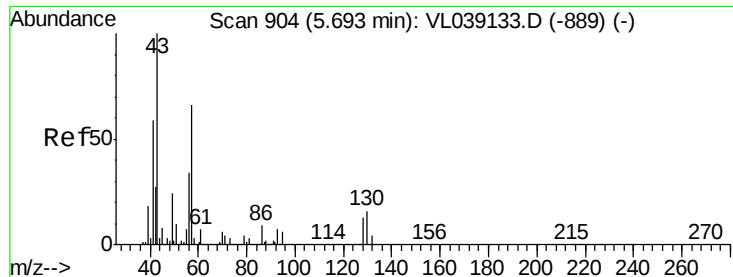
Tot Ion:	84	Resp:	11253
Ion	Ratio	Lower	Upper
84	100		
49	144.0	111.1	166.7
51	36.2	35.3	52.9
86	71.0	51.9	77.9



#23
Vinyl Acetate
Concen: 0.163 ppbv
RT: 5.06 min Scan# 708
Delta R.T. -0.02 min
Lab File: VL039346.D
Acq: 24 Jun 2022 18:22

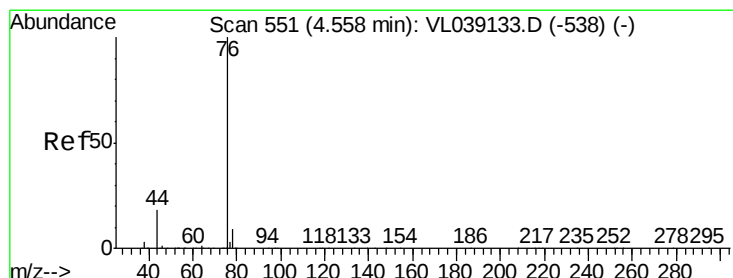
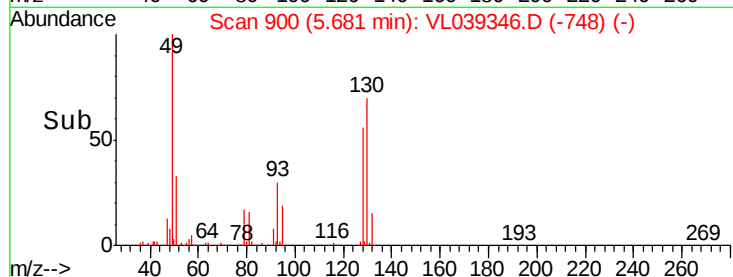
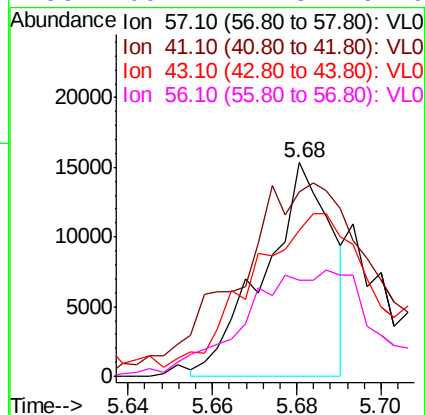
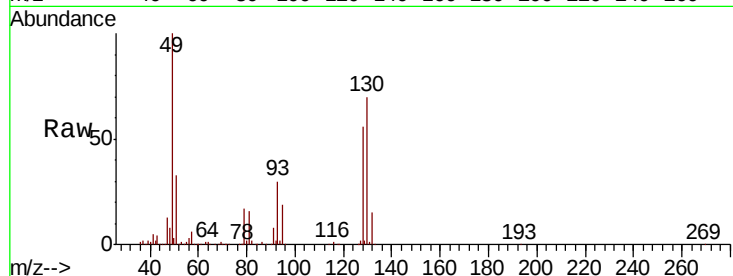
Tgt Ion:	43	Resp:	17349
Ion	Ratio	Lower	Upper
43	100		
86	4.9	6.0	9.0#
42	25.9	8.2	12.4#
44	7.2	4.3	6.5#





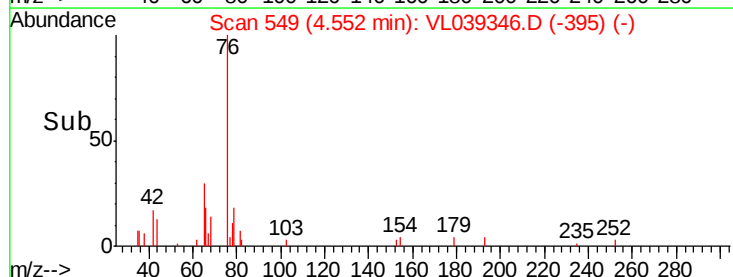
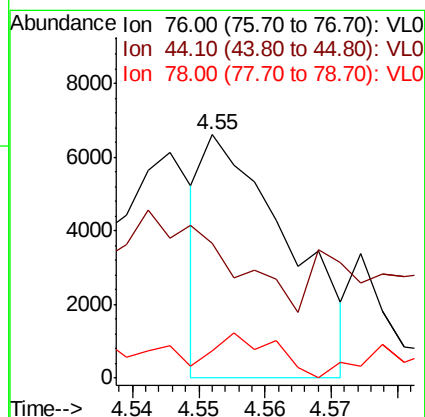
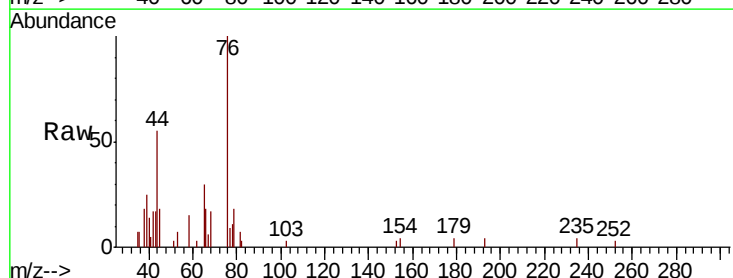
#26
Hexane
Concen: 0.133 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Jun 2022 18:22

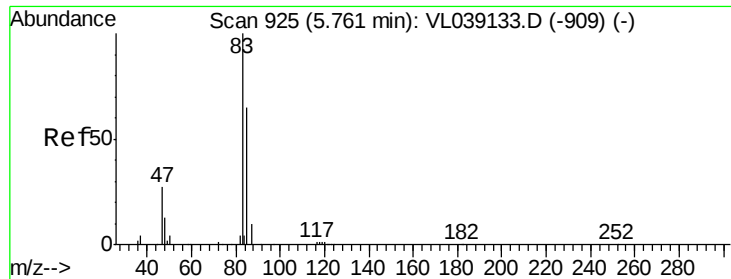
Tot Ion:	57	Resp:	16933
Ion	Ratio	Lower	Upper
57	100		
41	207.2	72.4	108.6#
43	148.7	187.0	280.6#
56	109.7	41.8	62.6#



#27
Carbon Disulfide
Concen: 0.045 ppbv
RT: 4.55 min Scan# 549
Delta R.T. -0.01 min
Lab File: VL039346.D
Acq: 24 Jun 2022 18:22

Tgt Ion:	76	Resp:	5892
Ion	Ratio	Lower	Upper
76	100		
44	0.0	14.4	21.6#
78	0.0	7.7	11.5#





#29

Chloroform

Concen: 0.186 ppbv

RT: 5.75 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

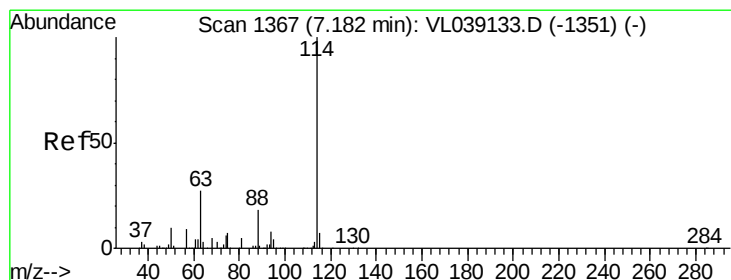
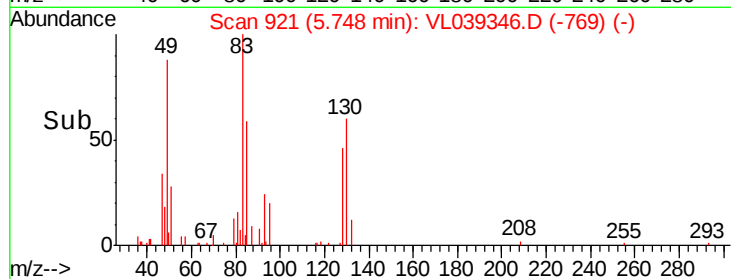
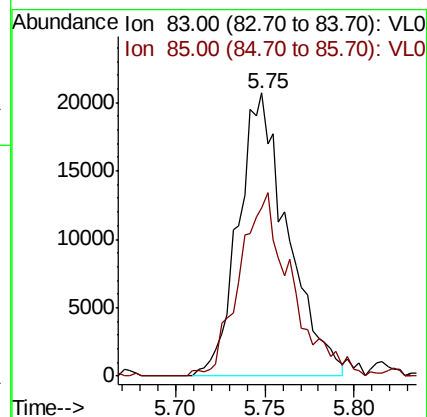
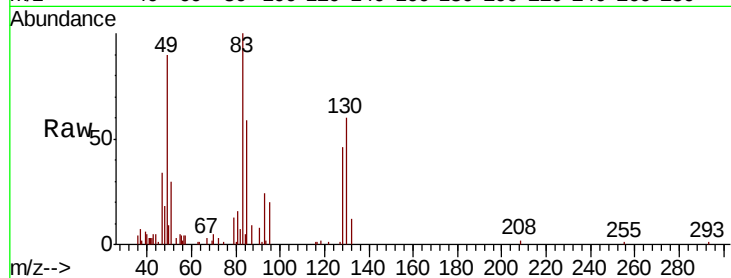
Acq: 24 Jun 2022 18:22 SV-3-20220622DL

Tot Ion: 83 Resp: 39916

Ion Ratio Lower Upper

83 100

85 57.2 52.4 78.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL039346.D

Acq: 24 Jun 2022 18:22

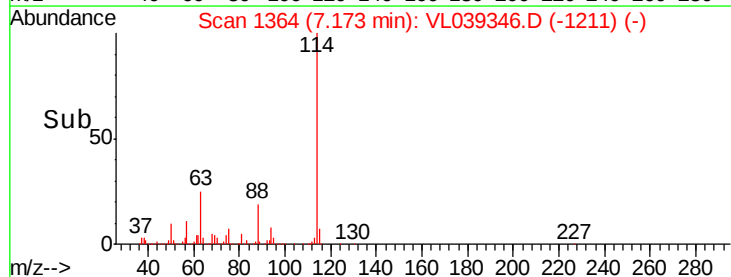
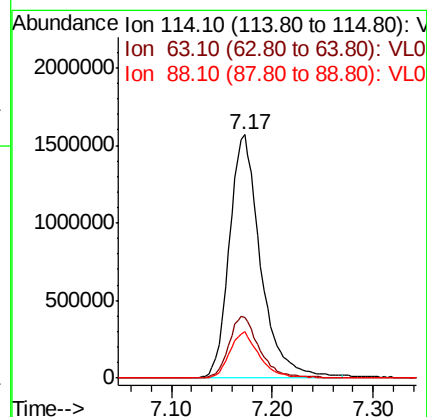
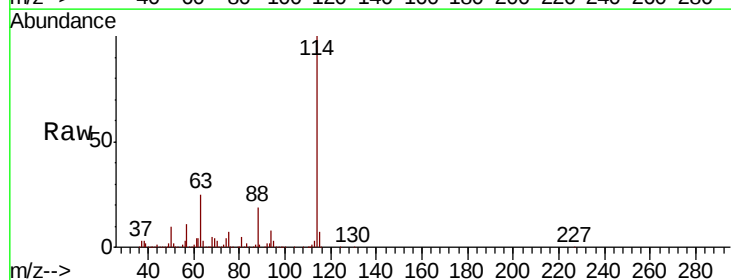
Tgt Ion: 114 Resp: 3398848

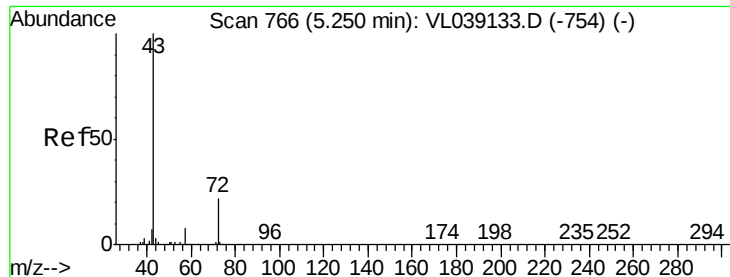
Ion Ratio Lower Upper

114 100

63 25.2 21.7 32.5

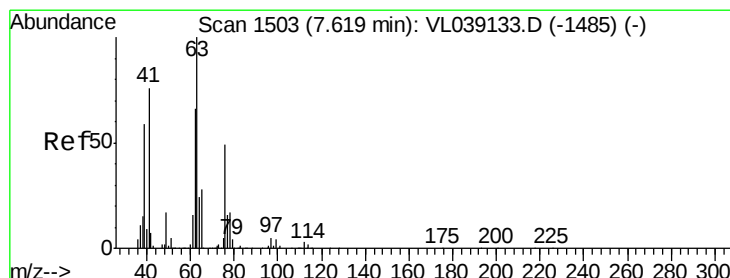
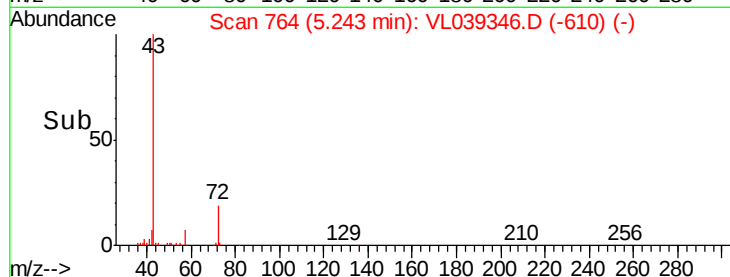
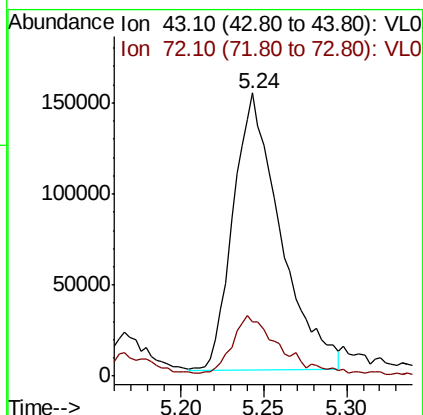
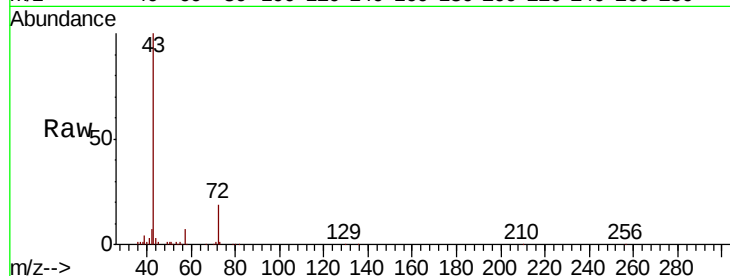
88 18.3 14.8 22.2





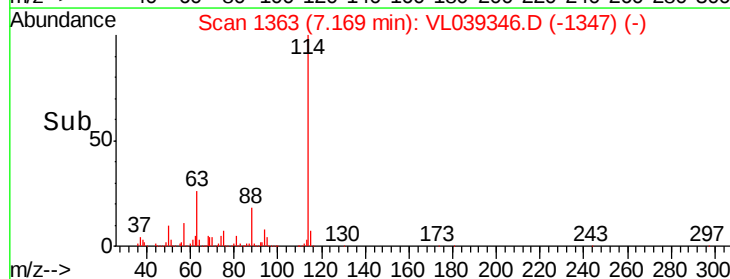
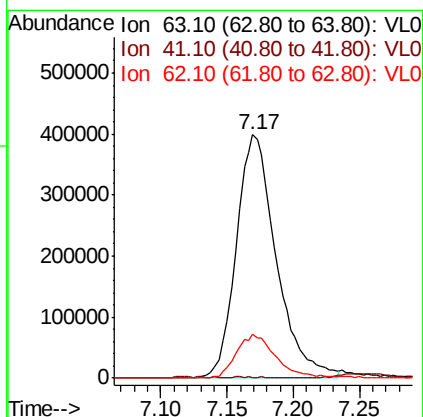
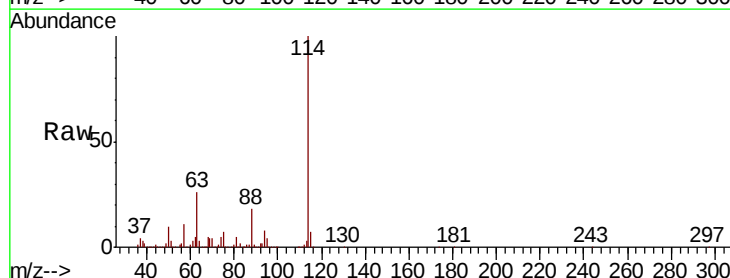
#34
 2-Butanone
 Concen: 1.633 ppbv
 RT: 5.24
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-3-20220622DL
 Acq: 24 Jun 2022 18:22

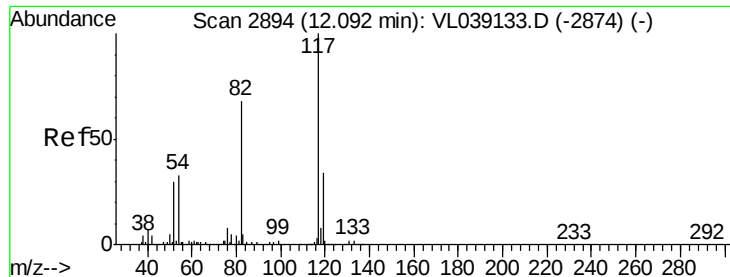
Tot Ion: 43 Resp: 301555
 Ion Ratio Lower Upper
 43 100
 72 24.2 18.2 27.2



#39
 1,2-Dichloropropane
 Concen: 7.623 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.45 min
 Lab File: VL039346.D
 Acq: 24 Jun 2022 18:22

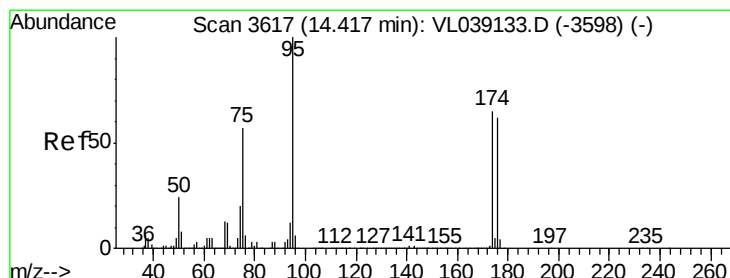
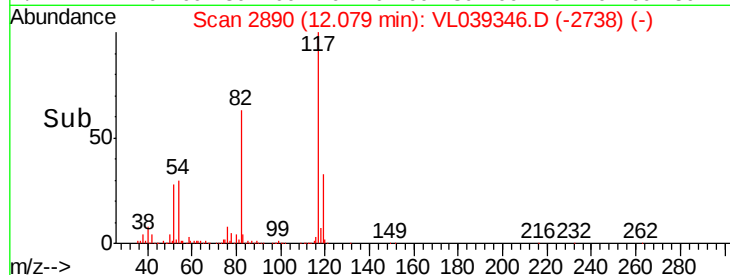
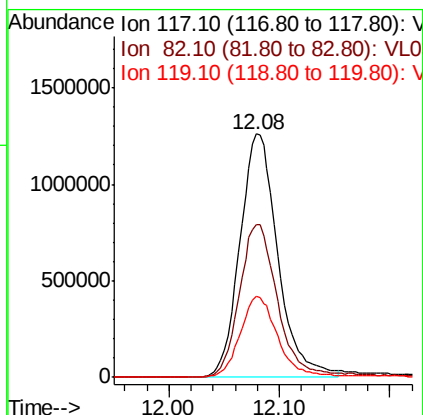
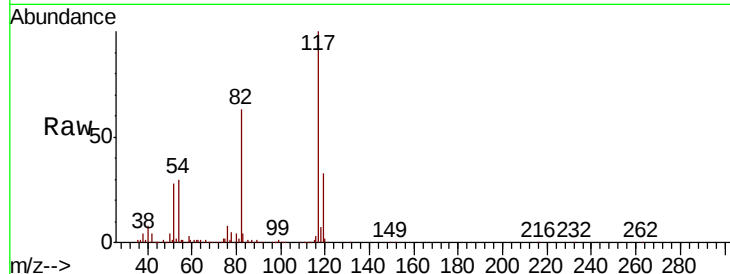
Tgt Ion: 63 Resp: 836649
 Ion Ratio Lower Upper
 63 100
 41 0.0 60.8 91.2#
 62 18.1 52.9 79.3#





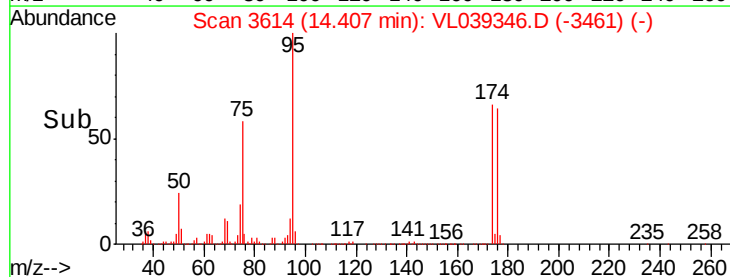
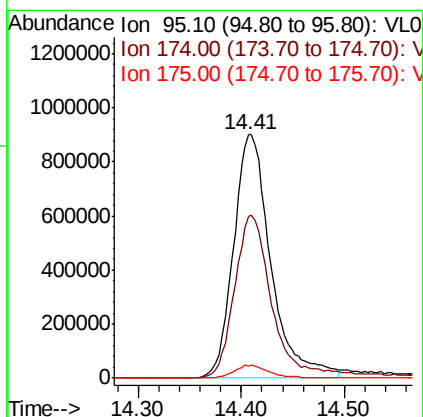
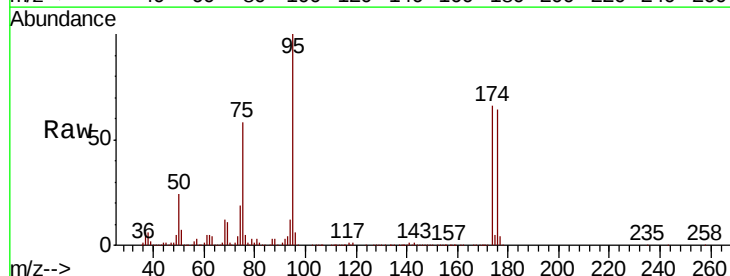
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV-3-20220622DL
Acq: 24 Jun 2022 18:22

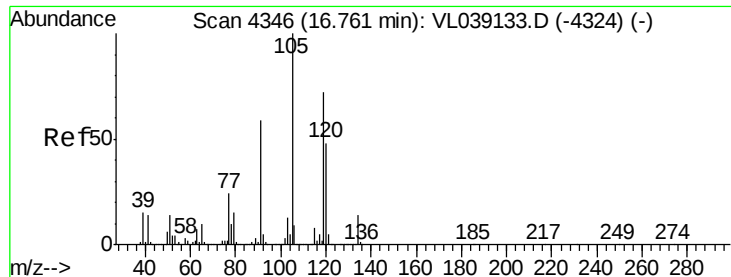
Tot Ion: 117 Resp: 3006396
Ion Ratio Lower Upper
117 100
82 65.6 55.1 82.7
119 33.2 24.7 37.1



#68
1-Bromo-4-Fluorobenzene
Concen: 9.134 ppbv
RT: 14.41 min Scan# 3614
Delta R.T.: -0.01 min
Lab File: VL039346.D
Acq: 24 Jun 2022 18:22

Tgt Ion: 95 Resp: 2270166
Ion Ratio Lower Upper
95 100
174 70.3 53.8 80.8
175 5.1 4.1 6.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.040 ppbv
 RT: 16.76
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Jun 2022 16.22

Tot Ion:	105	Resp:	16338
Ion	Ratio	Lower	Upper
105	100		
120	37.6	38.1	57.1#
91	20.0	47.4	71.0#
77	14.5	19.5	29.3#

