

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
 Data File : VL039056.D
 Acq On : 14 May 2022 3:55
 Operator : SY/AP
 Sample : N2828-06DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: May 14 07:18:44 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	899116	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2466132	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	2050473	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1568055	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

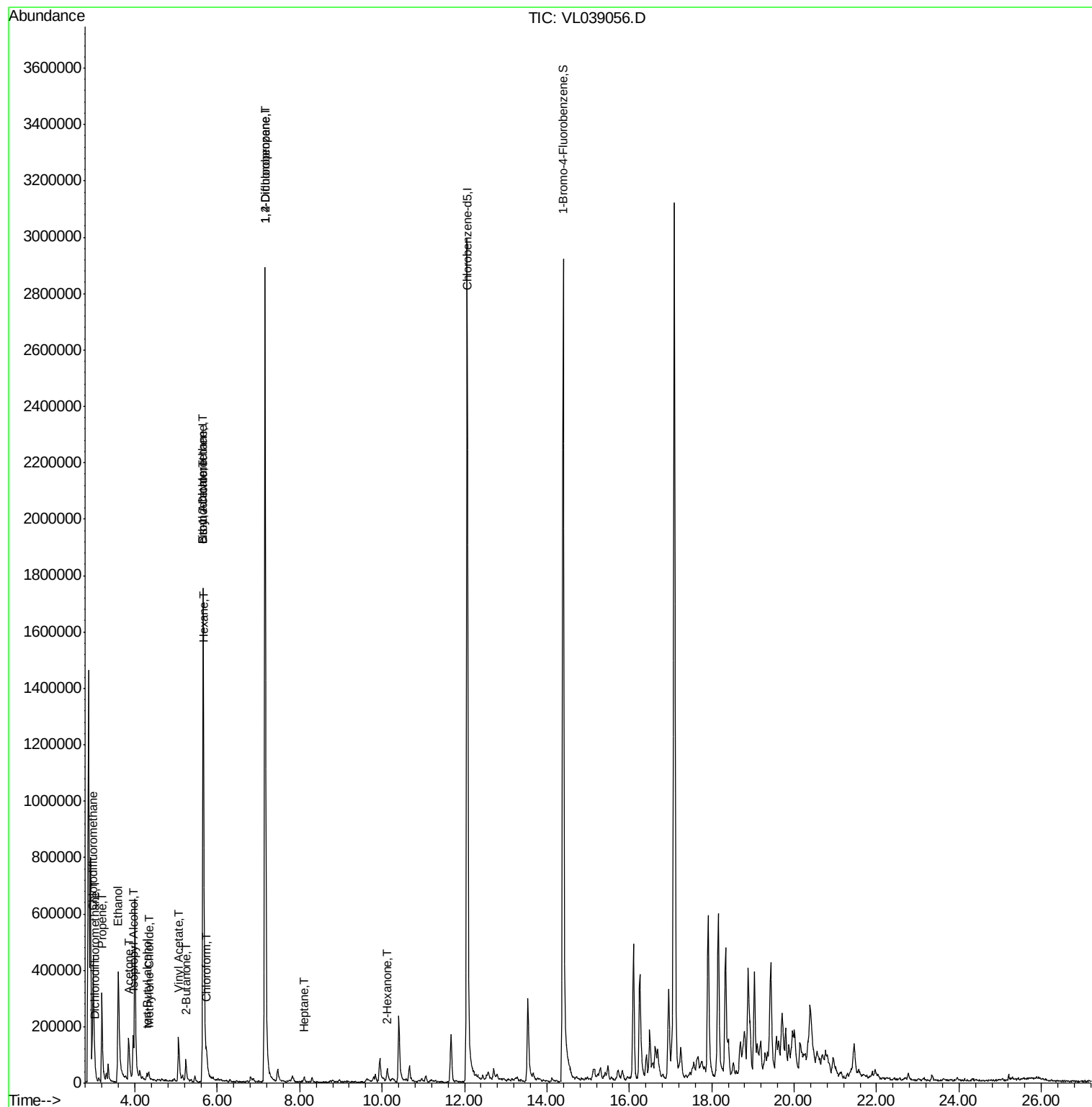
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	5854	0.042	ppbv	97
3) Chlorodifluoromethane	2.98	51	536574	4.809	ppbv	95
9) Propene	3.20	41	94724	1.944	ppbv	89
10) Heptane	8.11	43	4183	0.035	ppbv #	43
13) Ethanol	3.59	45	641001	185.905	ppbv	90
15) Acetone	3.84	43	181018	2.134	ppbv	90
17) tert-Butyl alcohol	4.29	59	7517	0.115	ppbv #	63
19) Isopropyl Alcohol	3.95	45	164756	4.086	ppbv #	91
20) Methylene Chloride	4.33	84	4728	0.148	ppbv	92
23) Vinyl Acetate	5.06	43	240429	3.583	ppbv #	93
25) Ethyl Acetate	5.66	43	154780	0.762	ppbv #	92
26) Hexane	5.67	57	40276	0.447	ppbv #	9
29) Chloroform	5.74	83	34247	0.235	ppbv	84
31) cis-1,2-Dichloroethene	5.65	61	4594	0.050	ppbv #	36
34) 2-Butanone	5.24	43	90315	0.718	ppbv #	89
39) 1,2-Dichloropropane	7.16	63	619667	7.546	ppbv #	26
51) 2-Hexanone	10.11	43	11640	0.072	ppbv #	28

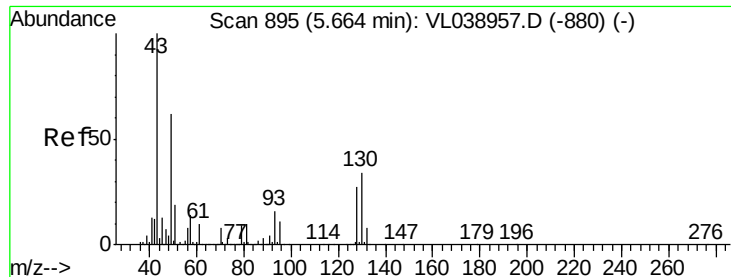
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051322\
Data File : VL039056.D
Acq On : 14 May 2022 3:55
Operator : SY/AP
Sample : N2828-06DL 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

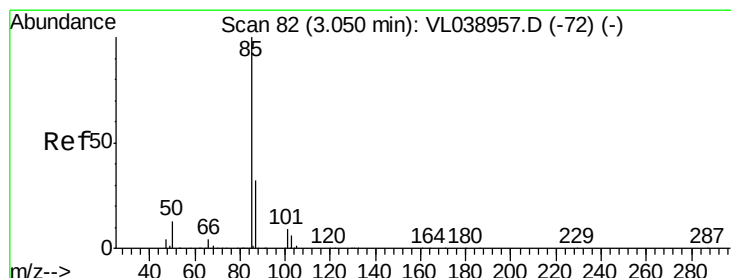
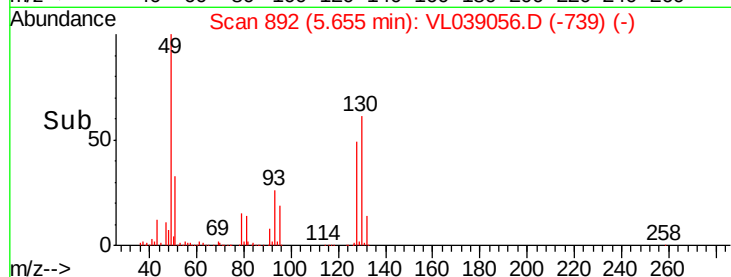
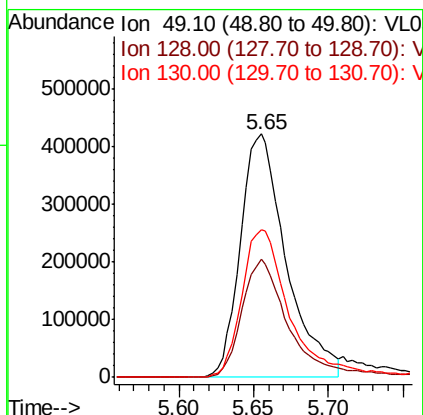
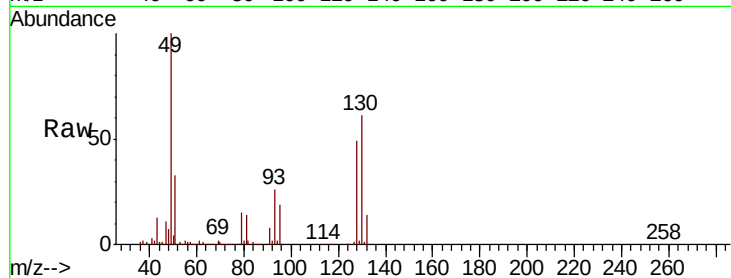
Quant Time: May 14 07:18:44 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 10:12:15 2022
QLast Update : Thu May 05 10:12:15 2022
Response via : Initial Calibration





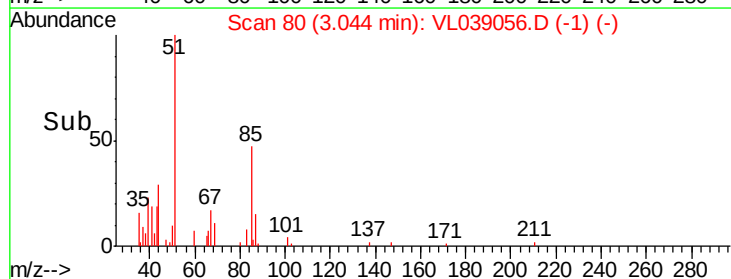
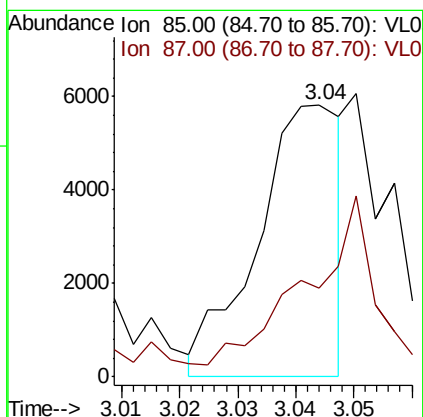
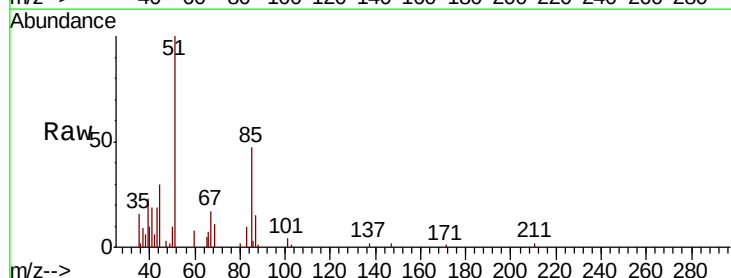
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 14 May 2022 3:55

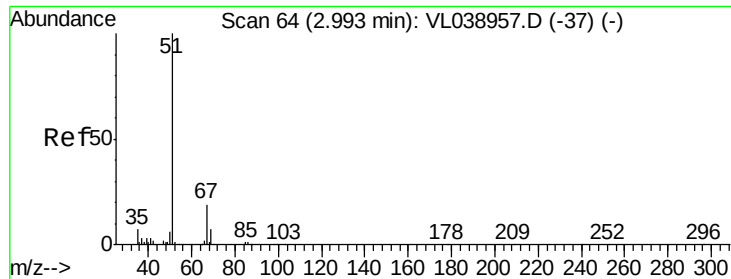
Tot Ion	49	Resp	899116
Ion Ratio	Lower	Upper	
49	100		
128	51.4	23.3	69.8
130	66.4	29.8	89.3



#2
 Dichlorodifluoromethane
 Concen: 0.042 ppbv
 RT: 3.04 min Scan# 80
 Delta R.T. -0.01 min
 Lab File: VL039056.D
 Acq: 14 May 2022 3:55

Tgt Ion	85	Resp	5854
Ion Ratio	Lower	Upper	
85	100		
87	30.4	25.7	38.5





#3

Chlorodifluoromethane

Concen: 4.809 ppbv

RT: 2.98 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: SV1DL

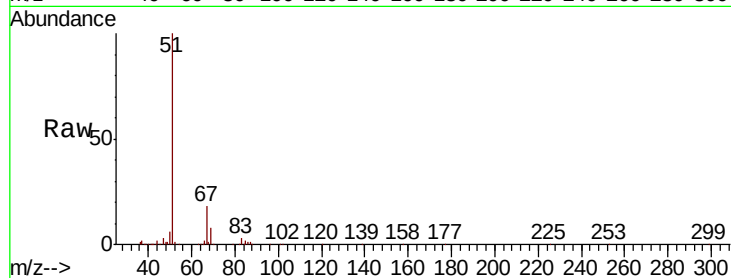
Acq: 14 May 2022 3:55

Tot Ion: 51 Resp: 536574

Ion Ratio Lower Upper

51 100

67 17.7 15.8 23.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.98

300000

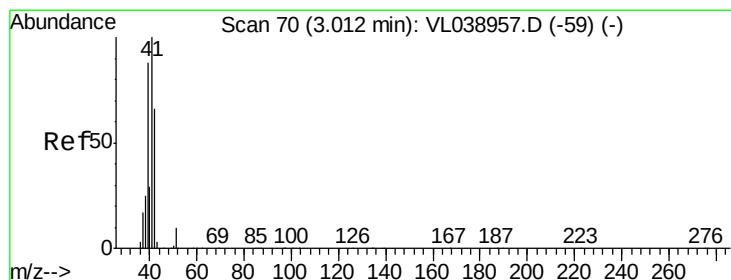
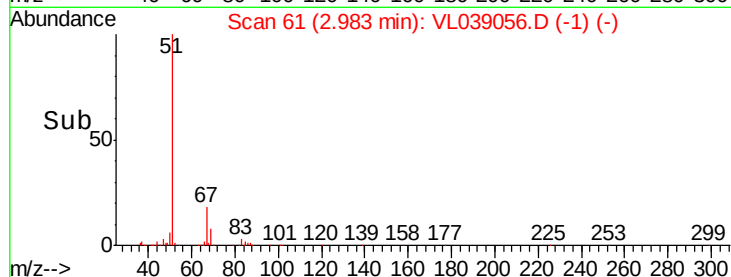
200000

100000

0

2.90 3.00 3.10 3.20

Time-->



#9

Propene

Concen: 1.944 ppbv

RT: 3.20 min Scan# 128

Delta R.T. 0.19 min

Lab File: VL039056.D

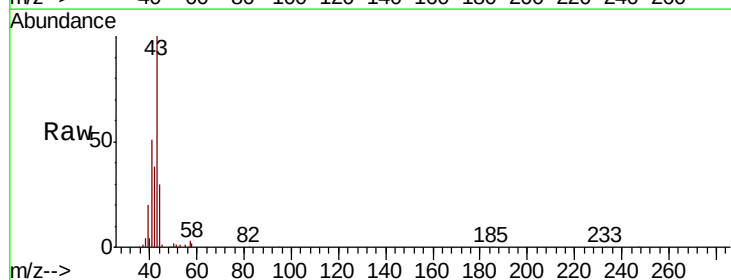
Acq: 14 May 2022 3:55

Tgt Ion: 41 Resp: 94724

Ion Ratio Lower Upper

41 100

42 82.5 58.3 87.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.20

60000

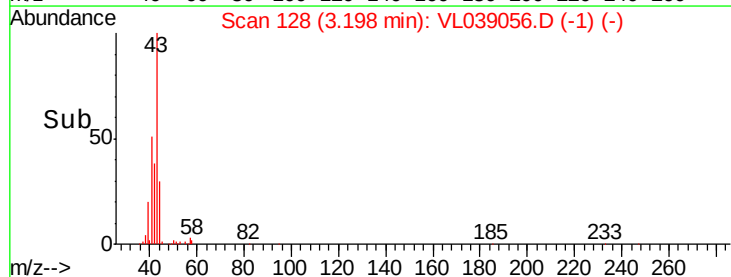
40000

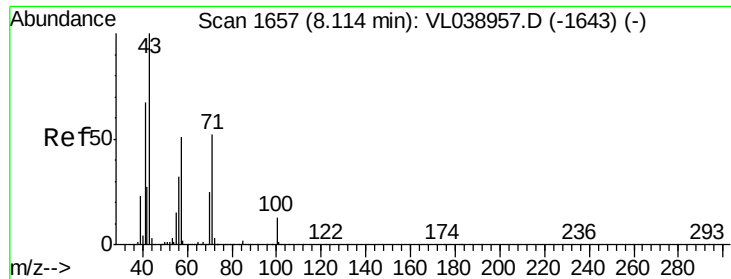
20000

0

3.15 3.20 3.25

Time-->





#10

Heptane

Concen: 0.035 ppbv

RT: 8.11 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV1DL

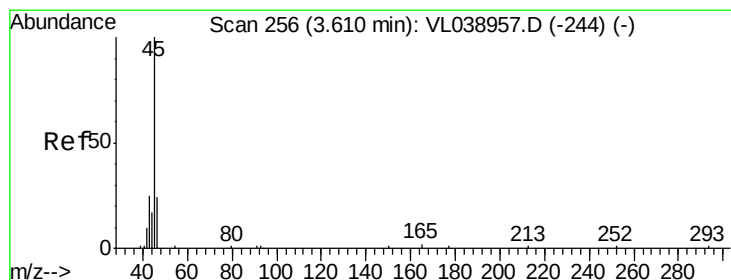
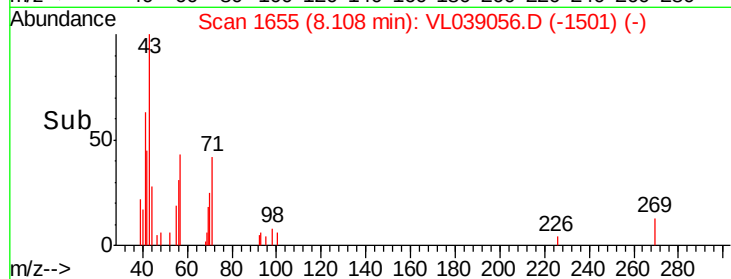
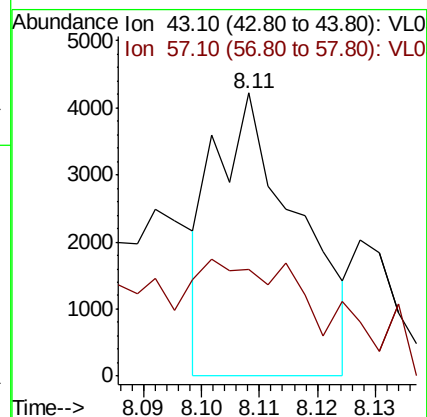
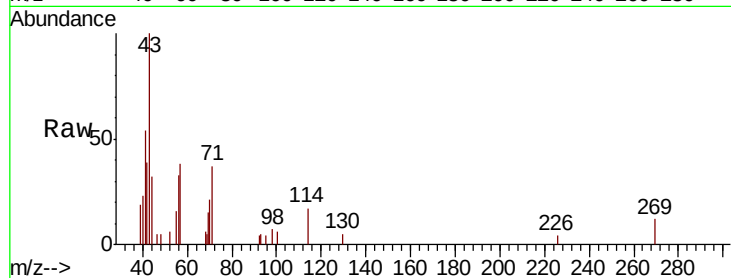
Acq: 14 May 2022 3:55

Tot Ion: 43 Resp: 4183

Ion Ratio Lower Upper

43 100

57 90.1 40.5 60.7#



#13

Ethanol

Concen: 185.905 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.02 min

Lab File: VL039056.D

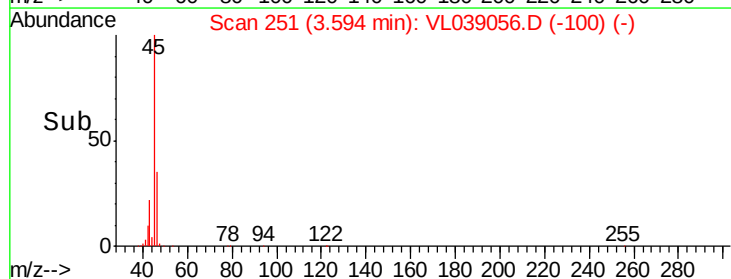
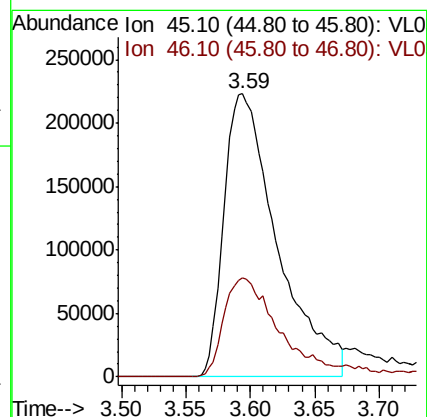
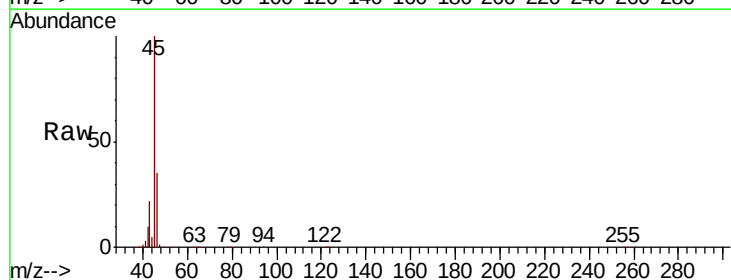
Acq: 14 May 2022 3:55

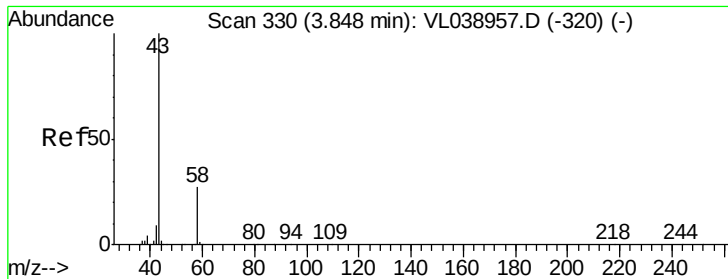
Tgt Ion: 45 Resp: 641001

Ion Ratio Lower Upper

45 100

46 38.6 18.0 72.2





#15

Acetone

Concen: 2.134 ppbv

RT: 3.84 Instrument: MSVOA_1

Delta R.T. 0.01 min

Lab File: ClientSampleId: SV1DL

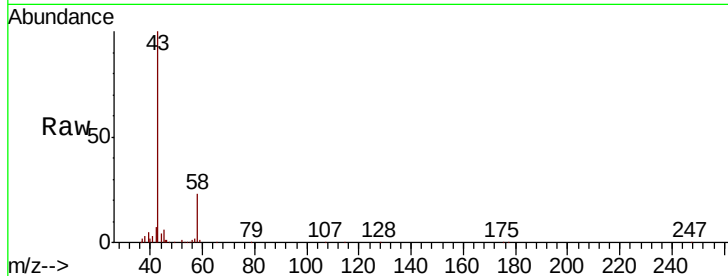
Acq: 14 May 2022 3:55

Tot Ion: 43 Resp: 181018

Ion Ratio Lower Upper

43 100

58 31.6 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

100000

80000

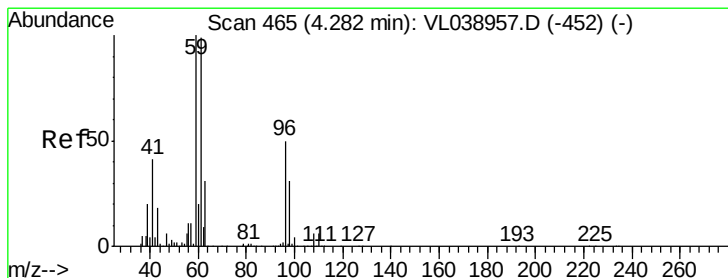
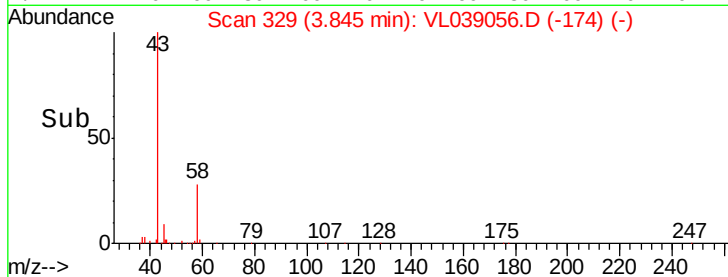
60000

40000

20000

0

Time-->



#17

tert-Butyl alcohol

Concen: 0.115 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.01 min

Lab File: VL039056.D

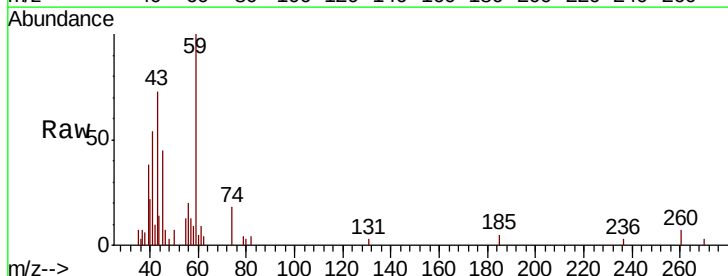
Acq: 14 May 2022 3:55

Tgt Ion: 59 Resp: 7517

Ion Ratio Lower Upper

59 100

57 25.6 9.2 13.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.29

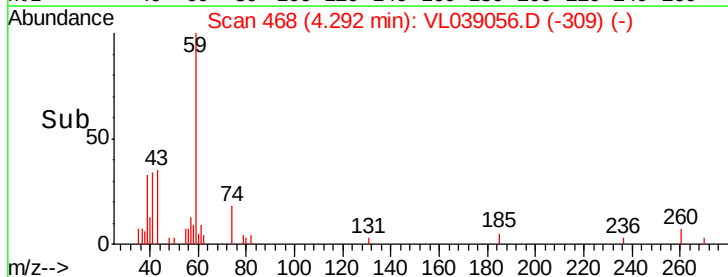
6000

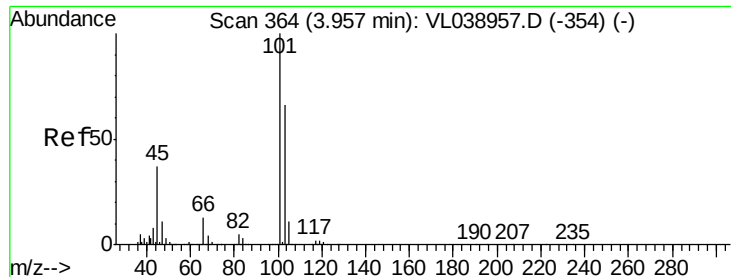
4000

2000

0

Time-->





#19

Isopropyl Alcohol

Concen: 4.086 ppbv

RT: 3.95 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: SV1DL

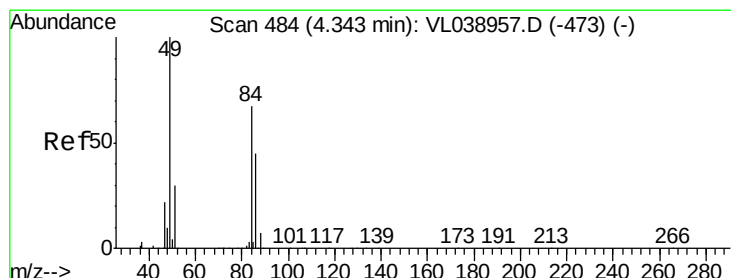
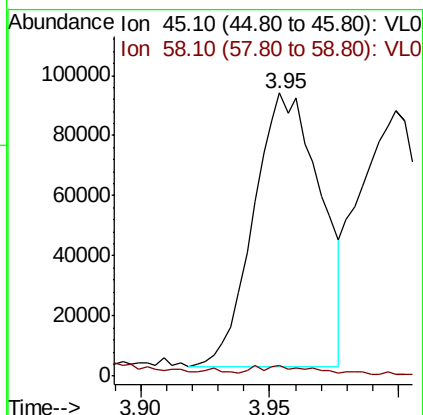
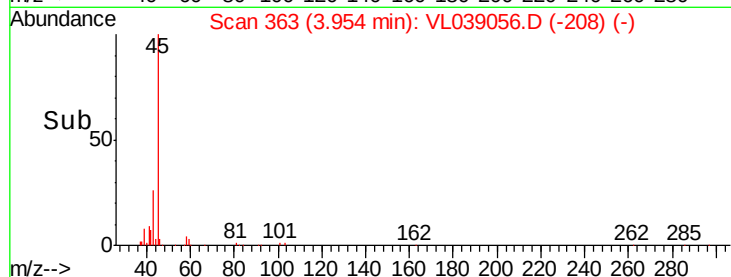
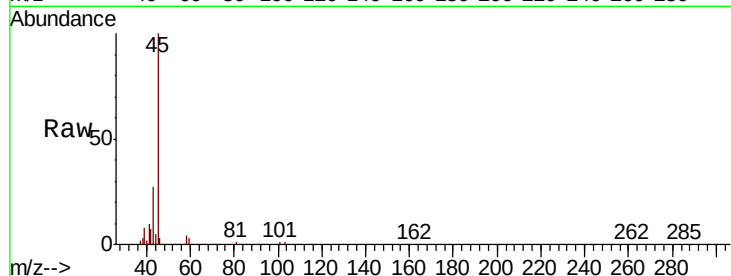
Acq: 14 May 2022 3:55

Tot Ion: 45 Resp: 164756

Ion Ratio Lower Upper

45 100

58 5.1 1.4 2.2#



#20

Methylene Chloride

Concen: 0.148 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL039056.D

Acq: 14 May 2022 3:55

Tgt Ion: 84 Resp: 4728

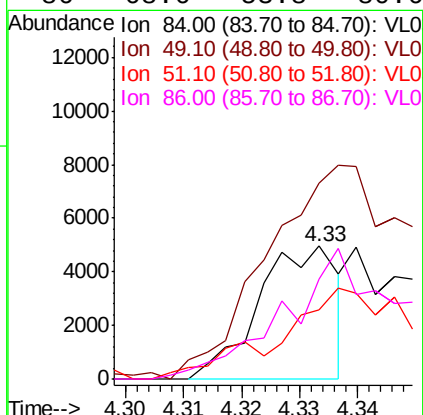
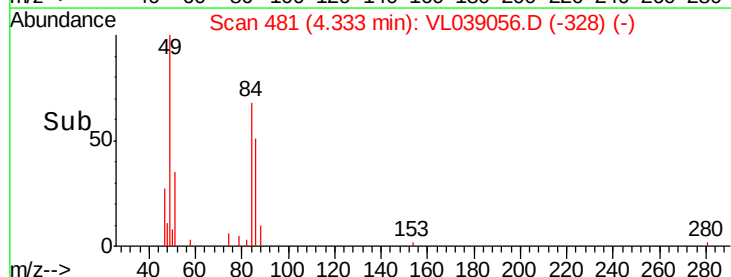
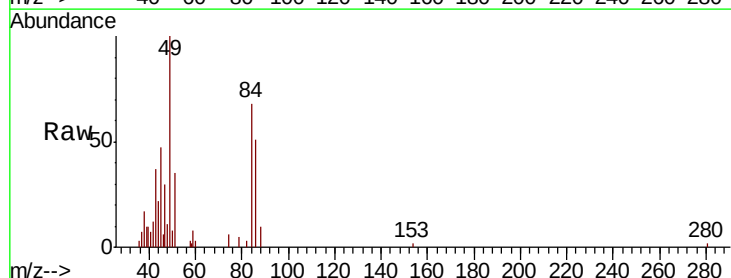
Ion Ratio Lower Upper

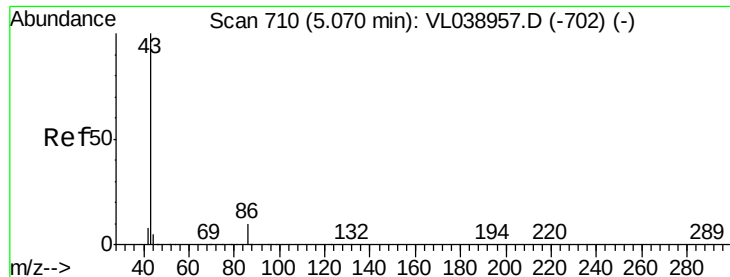
84 100

49 133.3 119.9 179.9

51 43.3 35.7 53.5

86 68.6 53.8 80.6





#23

Vinyl Acetate

Concen: 3.583 ppbv

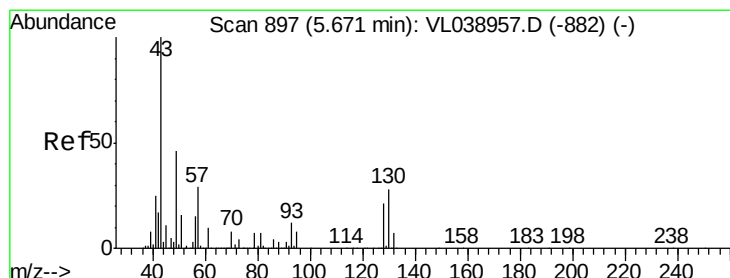
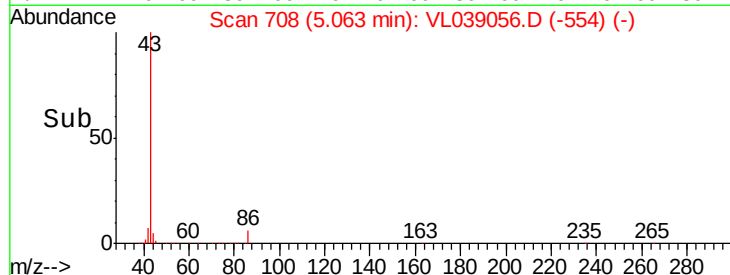
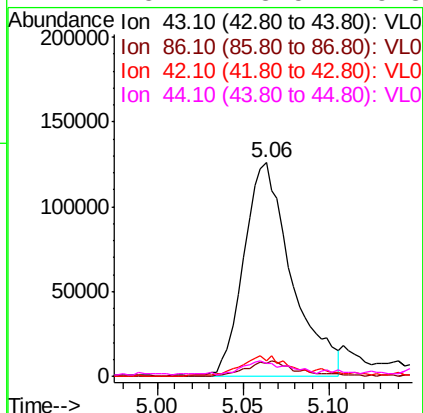
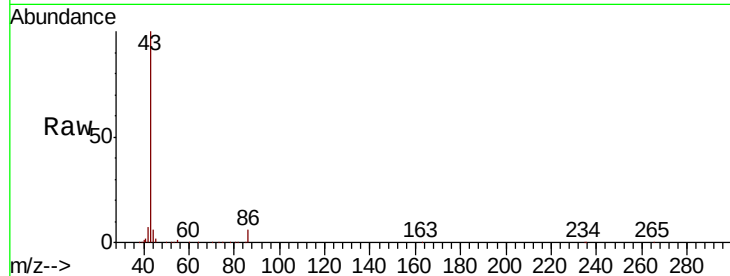
RT: 5.06 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 14 May 2022 3:55

Tot Ion:	43	Resp:	240429
Ion	Ratio	Lower	Upper
43	100		
86	6.2	6.6	9.8#
42	6.6	8.1	12.1#
44	5.2	3.5	5.3



#25

Ethyl Acetate

Concen: 0.762 ppbv

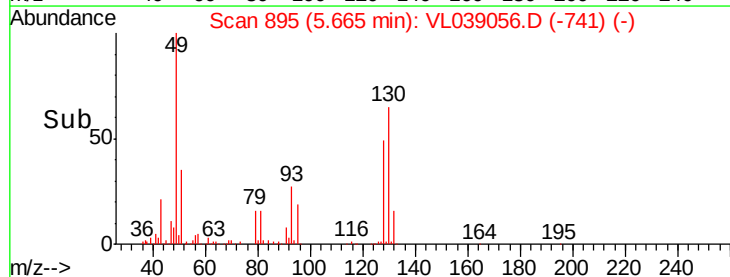
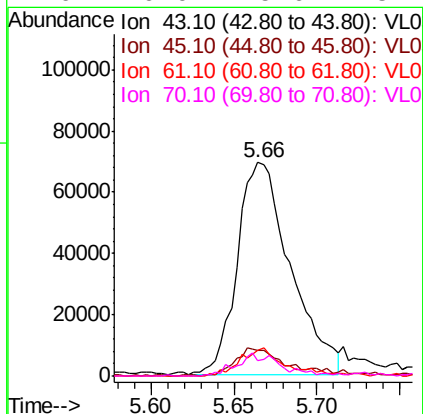
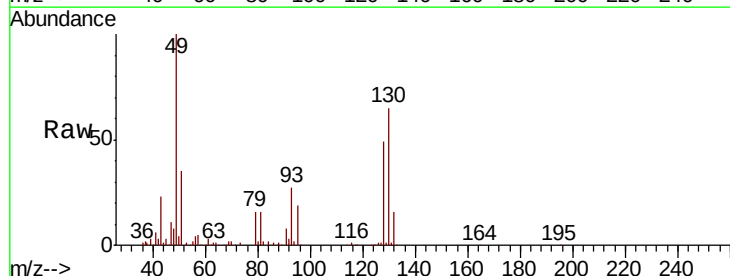
RT: 5.66 min Scan# 895

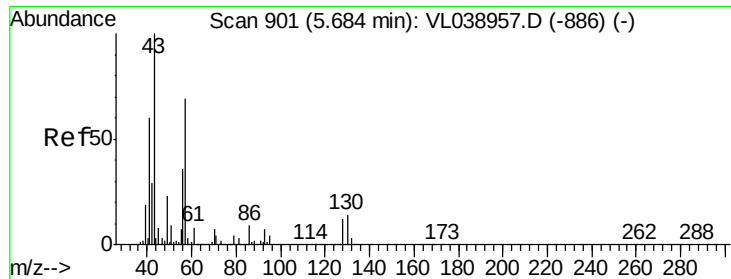
Delta R.T. -0.01 min

Lab File: VL039056.D

Acq: 14 May 2022 3:55

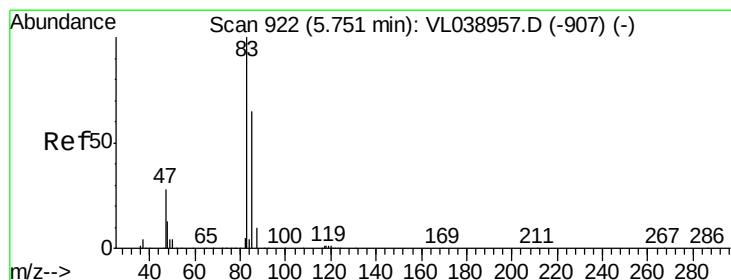
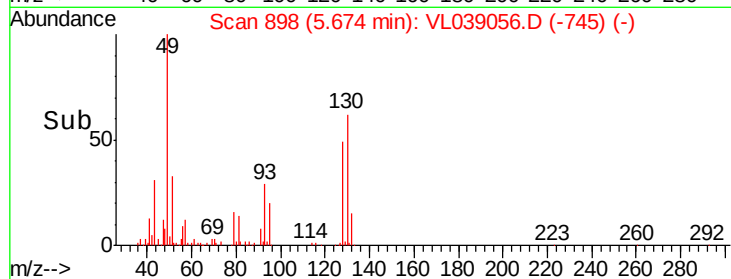
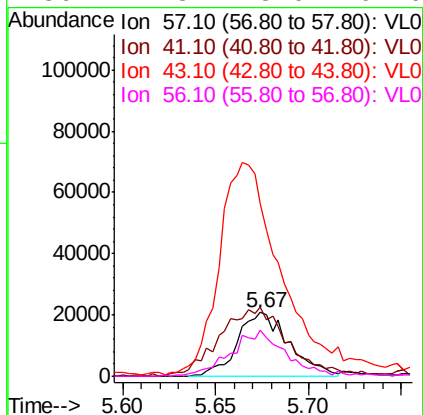
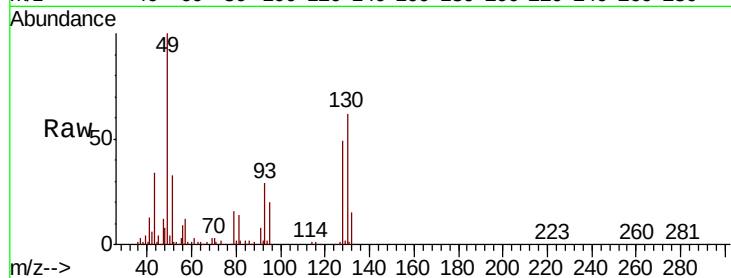
Tgt Ion:	43	Resp:	154780
Ion	Ratio	Lower	Upper
43	100		
45	14.1	8.1	12.1#
61	11.8	7.8	11.6#
70	10.0	5.6	8.4#





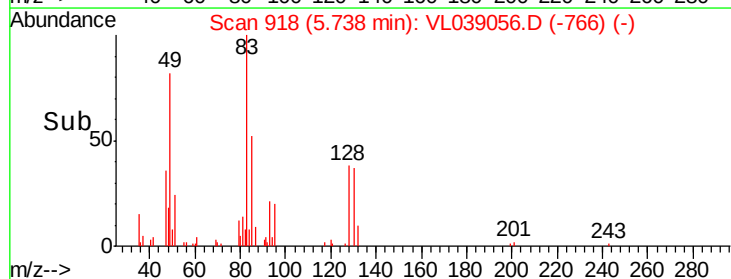
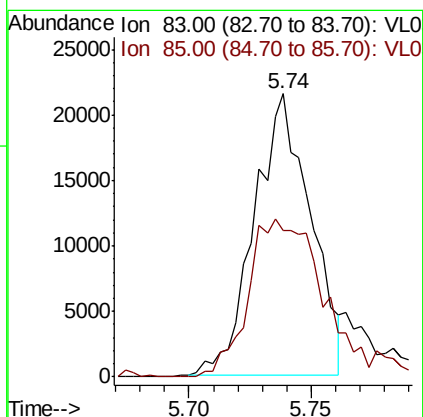
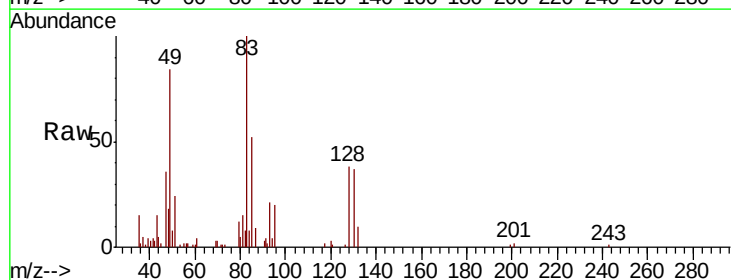
#26
Hexane
Concen: 0.447 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1DL
Acq: 14 May 2022 3:55

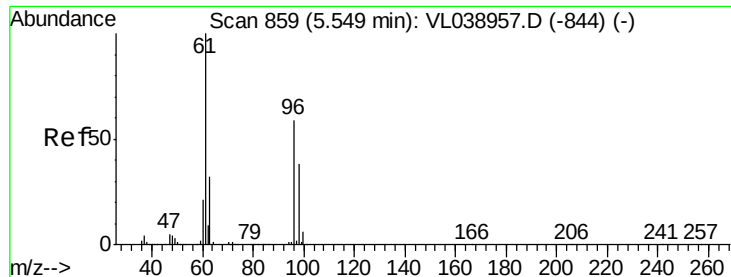
Tot Ion:	57	Resp:	40276
Ion	Ratio	Lower	Upper
57	100		
41	152.6	75.2	112.8#
43	434.2	190.8	286.2#
56	77.3	43.0	64.6#



#29
Chloroform
Concen: 0.235 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.01 min
Lab File: VL039056.D
Acq: 14 May 2022 3:55

Tgt Ion:	83	Resp:	34247
Ion	Ratio	Lower	Upper
83	100		
85	52.1	51.8	77.6





#31

cis-1,2-Dichloroethene

Concen: 0.050 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 May 2022 3:55

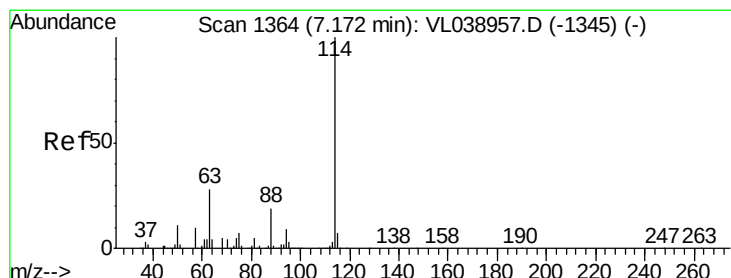
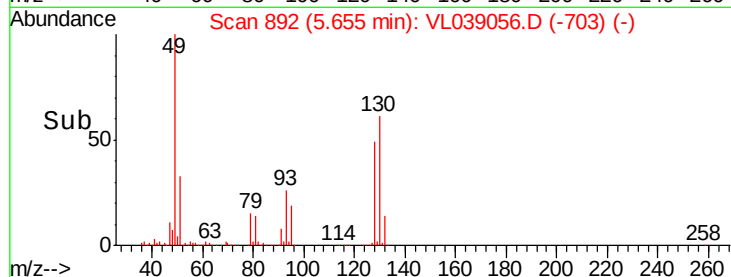
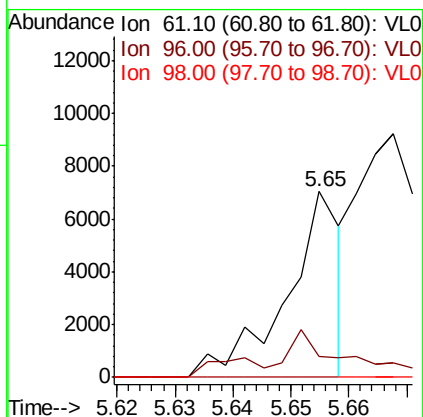
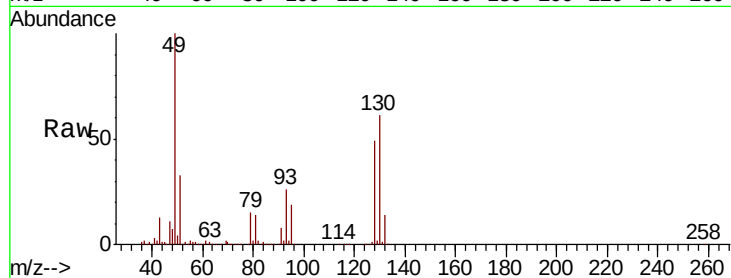
Tot Ion: 61 Resp: 4594

Ion Ratio Lower Upper

61 100

96 11.1 47.4 71.0#

98 0.0 30.6 45.8#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.02 min

Lab File: VL039056.D

Acq: 14 May 2022 3:55

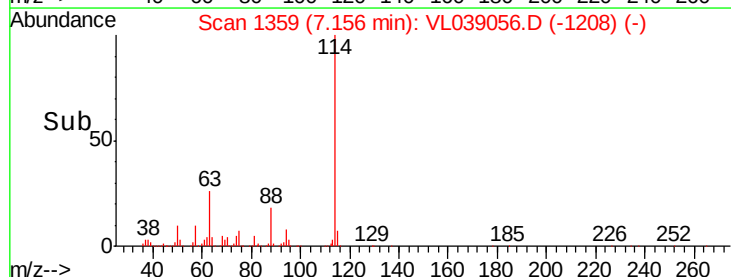
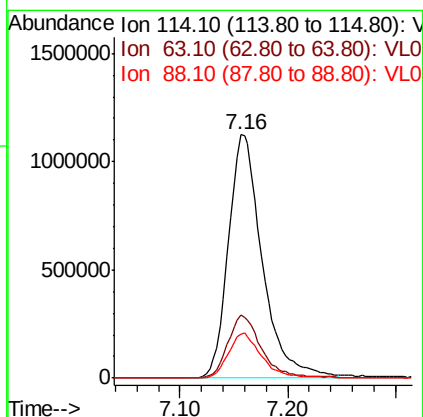
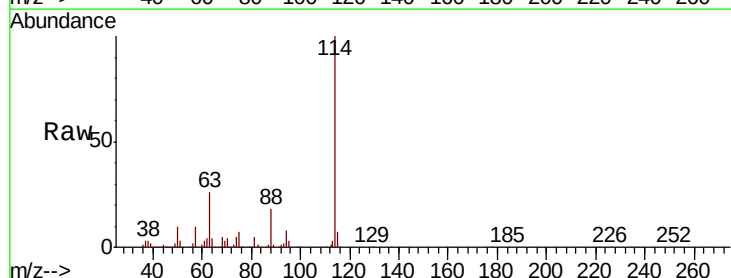
Tgt Ion: 114 Resp: 2466132

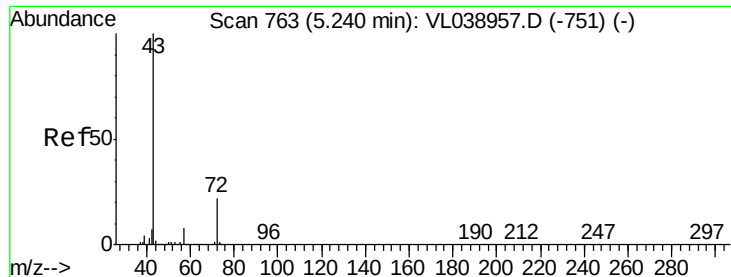
Ion Ratio Lower Upper

114 100

63 26.0 22.6 33.8

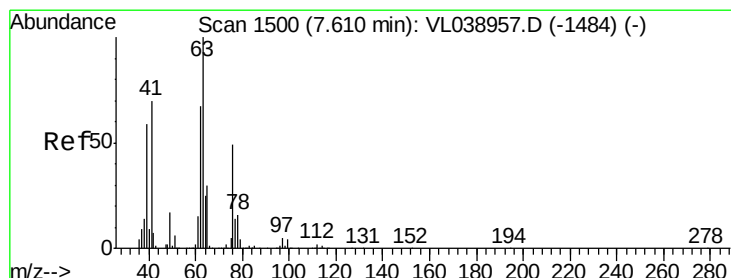
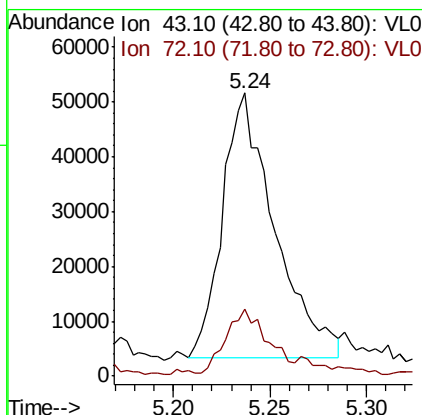
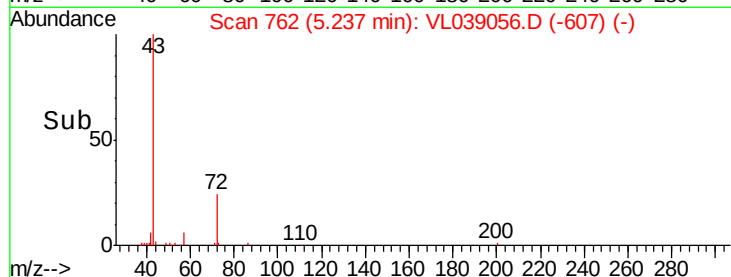
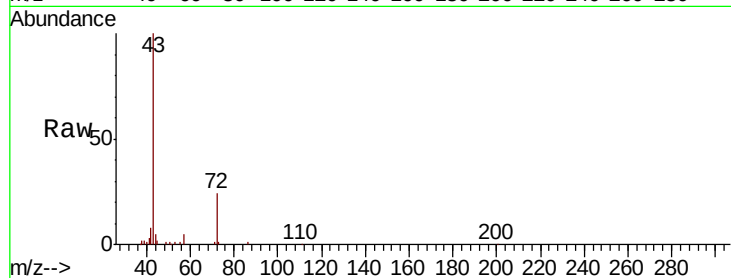
88 18.6 15.4 23.0





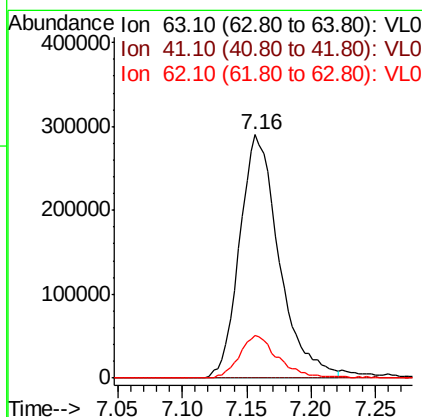
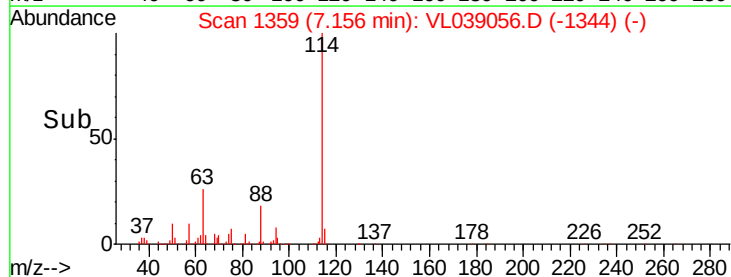
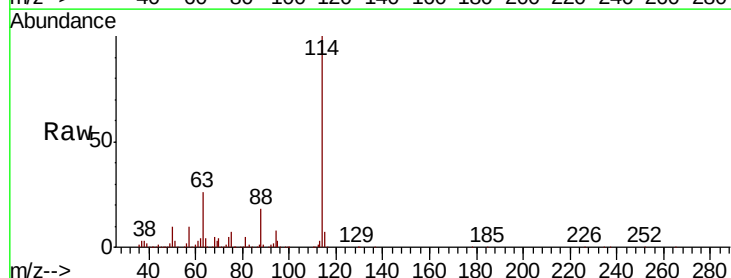
#34
 2-Butanone
 Concen: 0.718 ppbv
 RT: 5.24
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV1DL
 Acq: 14 May 2022 3:55

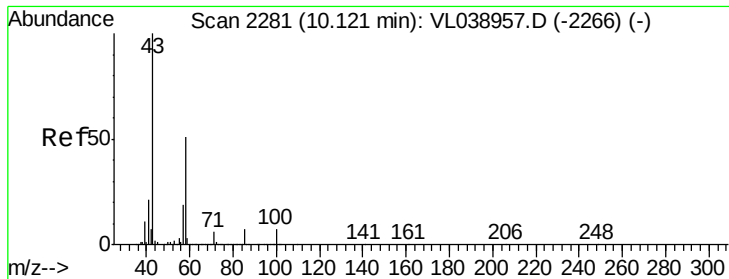
Tot Ion: 43 Resp: 90315
 Ion Ratio Lower Upper
 43 100
 72 27.6 17.8 26.6#



#39
 1,2-Dichloropropane
 Concen: 7.546 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.45 min
 Lab File: VL039056.D
 Acq: 14 May 2022 3:55

Tgt Ion: 63 Resp: 619667
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.9 83.9#
 62 17.4 53.8 80.6#





#51

2-Hexanone

Concen: 0.072 ppbv

RT: 10.11

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 May 2022 3:55

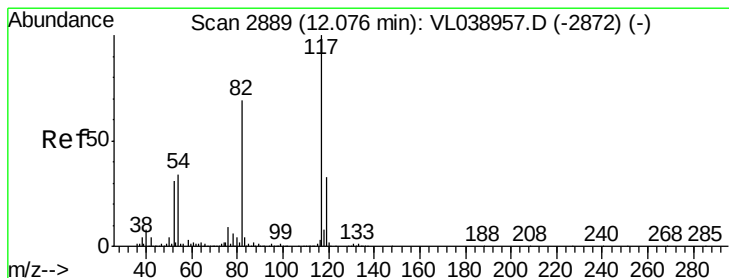
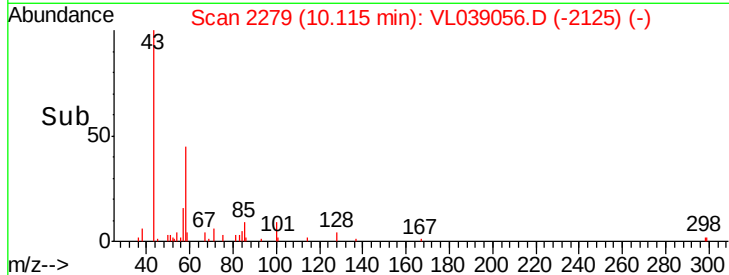
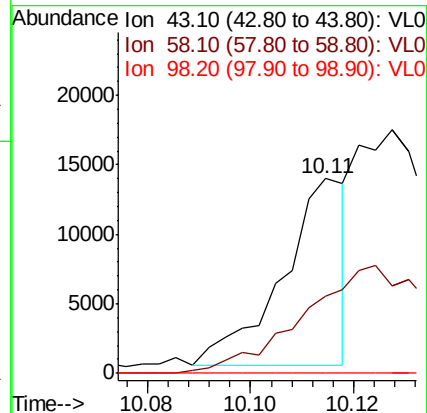
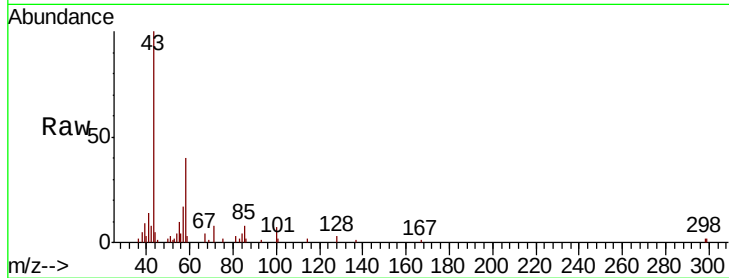
Tot Ion: 43 Resp: 11640

Ion Ratio Lower Upper

43 100

58 0.0 39.3 58.9#

98 0.0 0.2 0.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.01 min

Lab File: VL039056.D

Acq: 14 May 2022 3:55

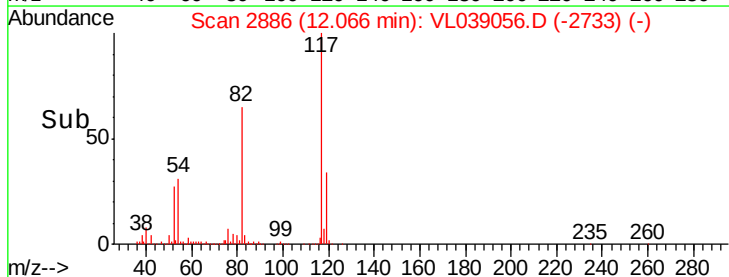
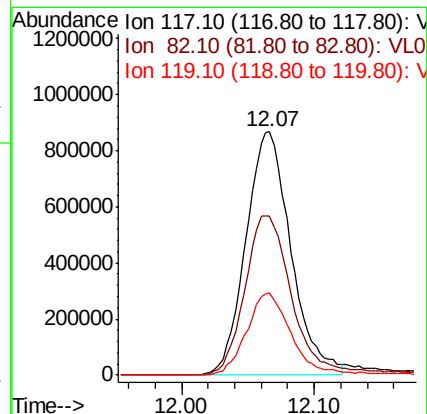
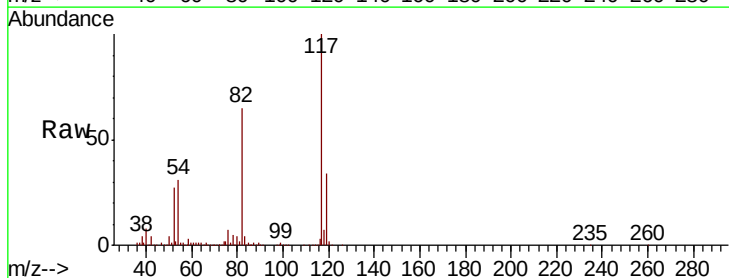
Tgt Ion: 117 Resp: 2050473

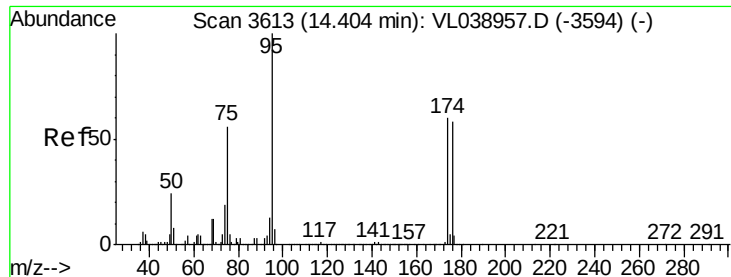
Ion Ratio Lower Upper

117 100

82 70.7 57.0 85.6

119 34.8 27.2 40.8





#68

1-Bromo-4-Fluorobenzene

Concen: 9.656 ppbv

RT: 14.39 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

SV1DL

Acq: 14 May 2022 3:55

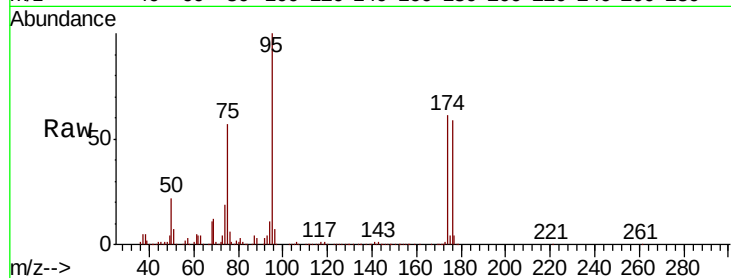
Tot Ion: 95 Resp: 1568055

Ion Ratio Lower Upper

95 100

174 66.5 50.8 76.2

175 4.6 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

