

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061322\
 Data File : VL039273.D
 Acq On : 14 Jun 2022 5:26
 Operator : SY/AP
 Sample : N3326-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Quant Time: Jun 14 08:08:27 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	5.67	49	1022985	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2329054	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1908478	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1696084	10.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.50%

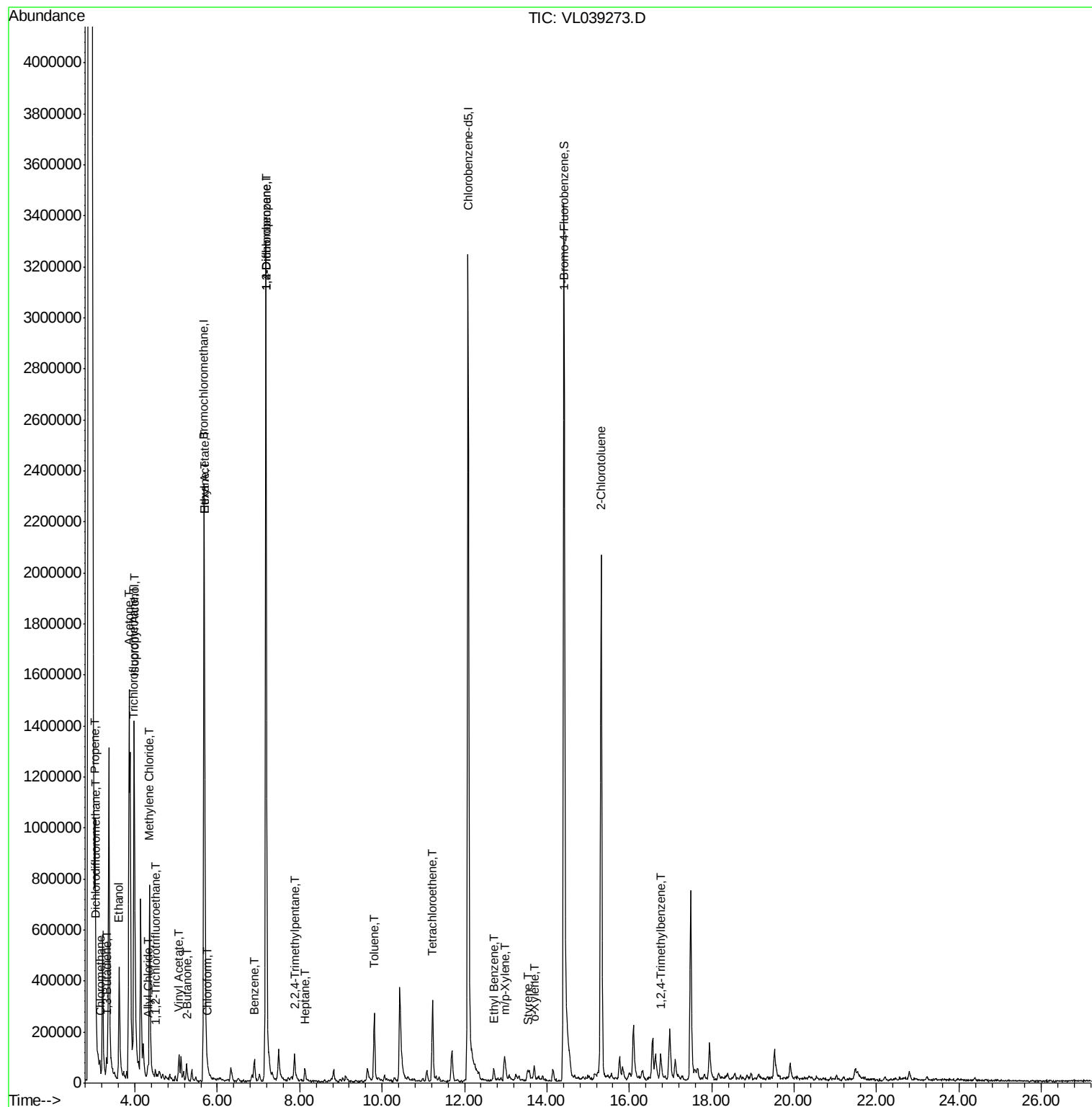
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	54433	0.303 ppbv #	85
4) Chloromethane	3.15	50	37178	0.556 ppbv #	82
9) Propene	3.03	41	193699	3.413 ppbv #	70
10) Heptane	8.13	43	6824	0.052 ppbv #	1
11) Trichlorofluoromethane	3.96	101	56457	0.347 ppbv	85
12) 1,1,2-Trichlorotrifluoroet	4.49	101	6190	0.058 ppbv #	12
13) Ethanol	3.62	45	464771	150.158 ppbv #	100
15) Acetone	3.86	43	2226769	20.896 ppbv	90
16) 1,3-Butadiene	3.33	39	9515	0.166 ppbv #	1
19) Isopropyl Alcohol	3.98	45	1739398	34.802 ppbv	100
20) Methylene Chloride	4.35	84	306362	6.822 ppbv	93
21) Allyl Chloride	4.31	41	2845	0.040 ppbv #	1
23) Vinyl Acetate	5.08	43	19213	0.218 ppbv #	71
25) Ethyl Acetate	5.69	43	274925	1.145 ppbv #	94
26) Hexane	5.69	57	225411	2.136 ppbv #	58
29) Chloroform	5.76	83	6244	0.035 ppbv	88
34) 2-Butanone	5.25	43	41298	0.326 ppbv #	53
36) Benzene	6.89	78	26367	0.139 ppbv	98
39) 1,2-Dichloropropane	7.18	63	678857	9.026 ppbv #	24
44) 2,2,4-Trimethylpentane	7.87	57	71793	0.217 ppbv #	67
52) Tetrachloroethene	11.22	164	37228	0.504 ppbv	86
53) Toluene	9.81	91	170227	0.782 ppbv	99
58) Ethyl Benzene	12.71	91	23708	0.090 ppbv	95
59) m/p-Xylene	12.99	91	17602	0.076 ppbv #	33
60) o-Xylene	13.69	91	25520	0.117 ppbv	66
61) Styrene	13.53	104	12078	0.104 ppbv #	34
71) 2-Chlorotoluene	15.32	91	535644	2.173 ppbv #	44
74) 1,2,4-Trimethylbenzene	16.76	105	49506	0.193 ppbv #	57

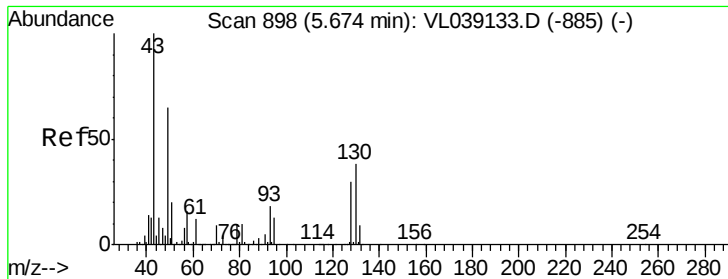
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061322\
Data File : VL039273.D
Acq On : 14 Jun 2022 5:26
Operator : SY/AP
Sample : N3326-04
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Jun 14 08:08:27 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 01 01:22:18 2022
QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Jun 2022 5:26

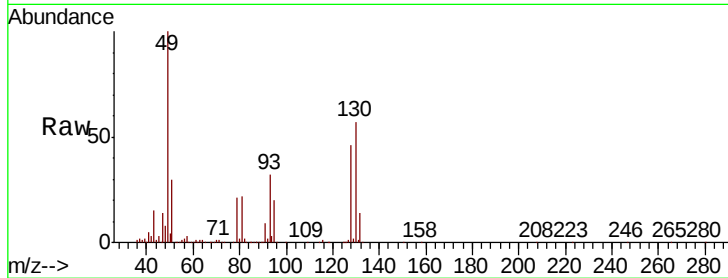
Tot Ion: 49 Resp: 1022985

Ion Ratio Lower Upper

49 100

128 46.8 24.7 74.1

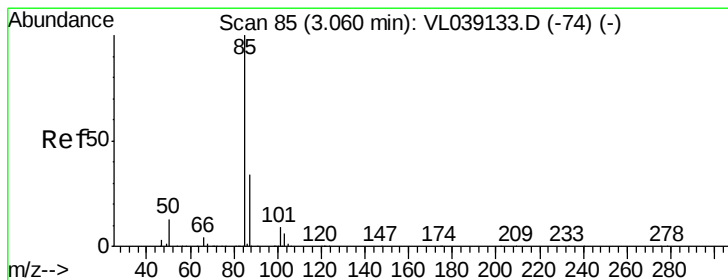
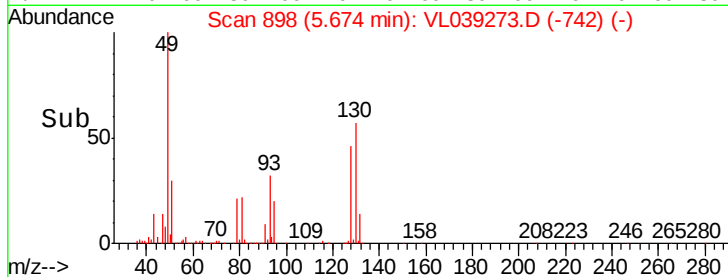
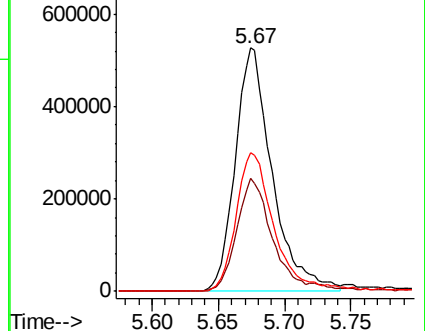
130 60.1 31.4 94.0



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: 0.303 ppbv

RT: 3.06 min Scan# 84

Delta R.T. -0.00 min

Lab File: VL039273.D

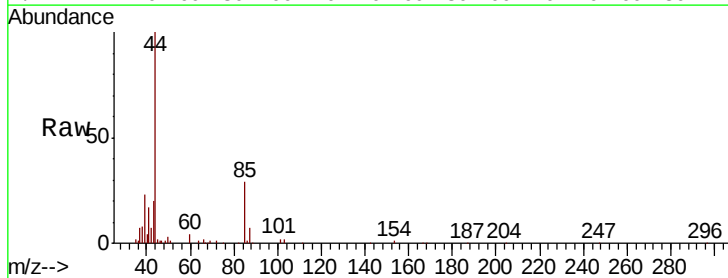
Acq: 14 Jun 2022 5:26

Tgt Ion: 85 Resp: 54433

Ion Ratio Lower Upper

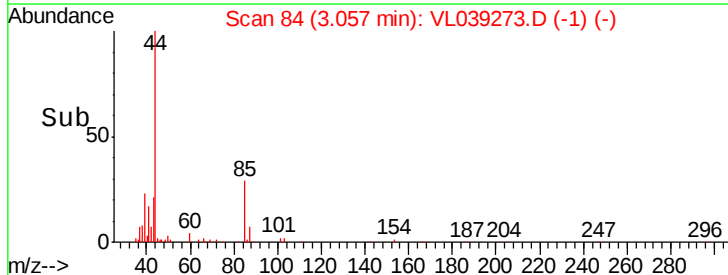
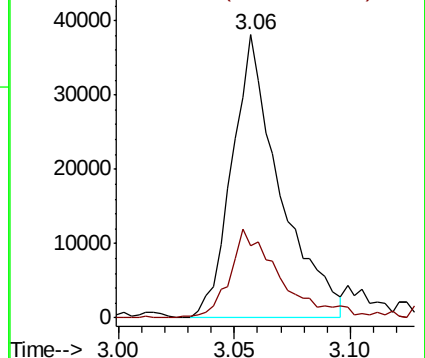
85 100

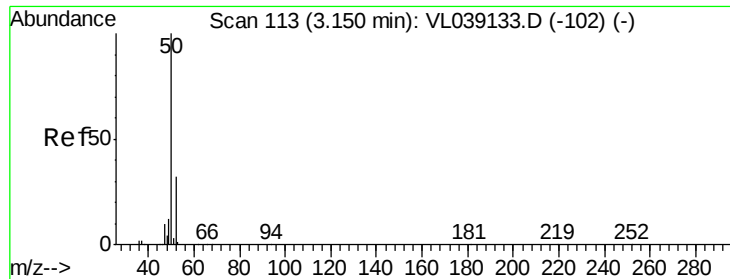
87 24.9 26.9 40.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.556 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

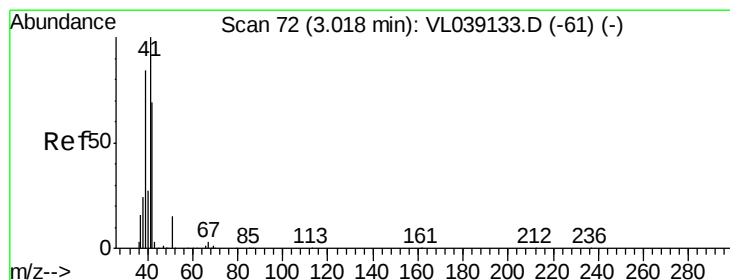
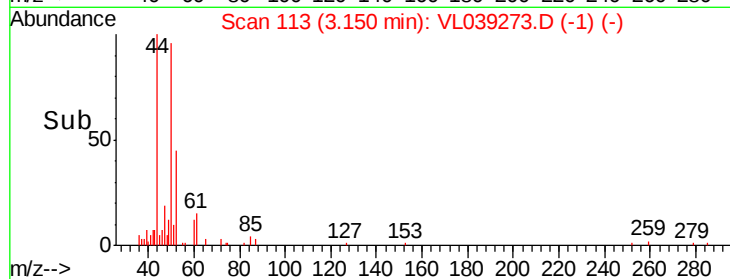
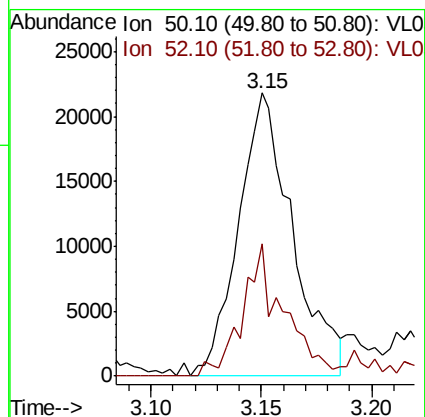
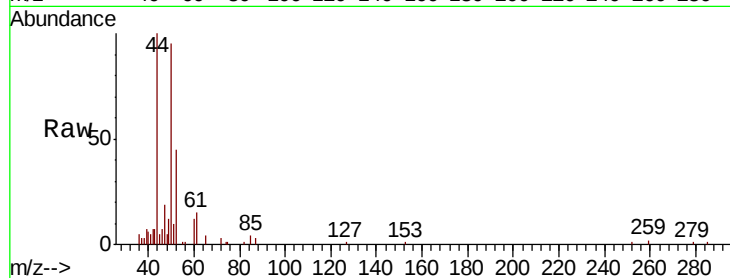
Acq: 14 Jun 2022 5:26

Tot Ion: 50 Resp: 37178

Ion Ratio Lower Upper

50 100

52 42.4 25.9 38.9#



#9

Propene

Concen: 3.413 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.01 min

Lab File: VL039273.D

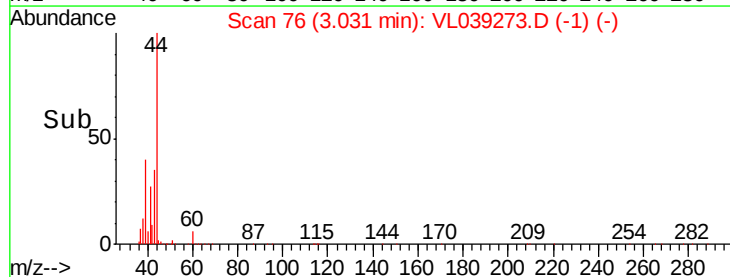
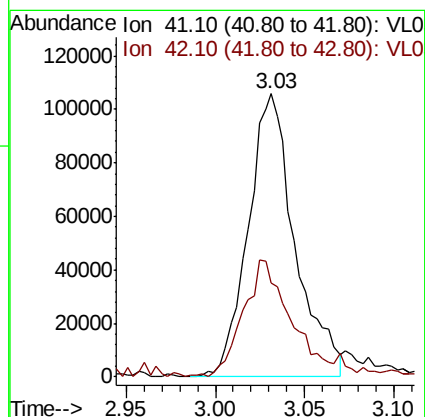
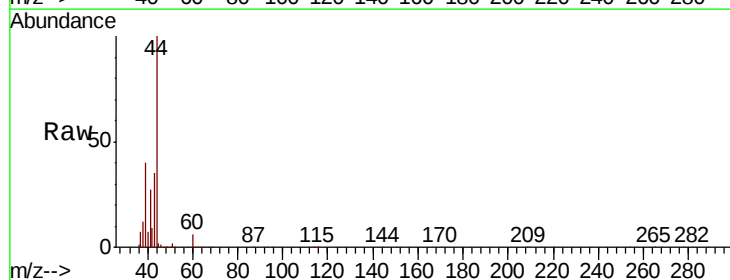
Acq: 14 Jun 2022 5:26

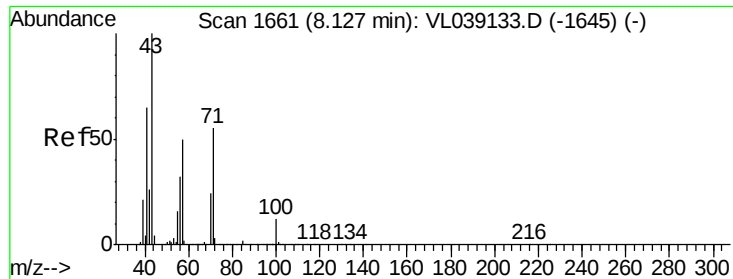
Tgt Ion: 41 Resp: 193699

Ion Ratio Lower Upper

41 100

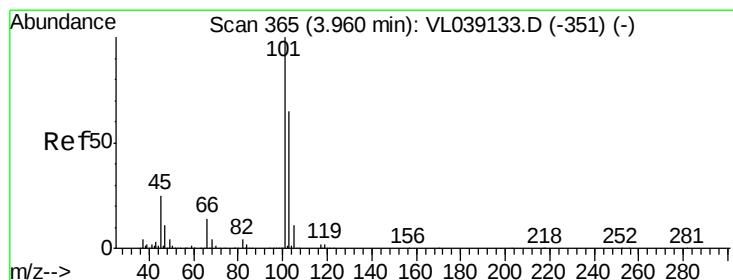
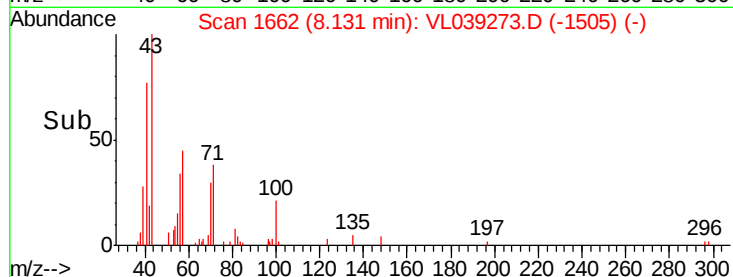
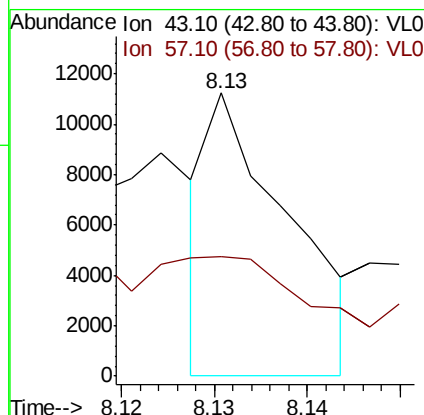
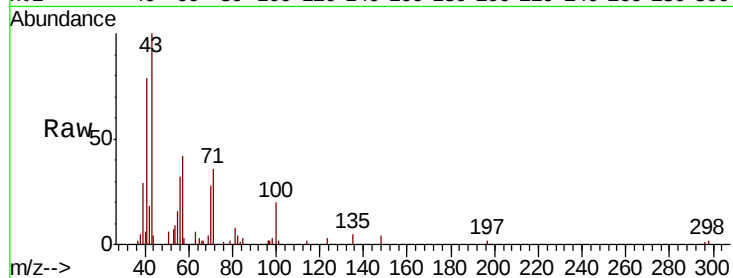
42 45.0 55.4 83.2#





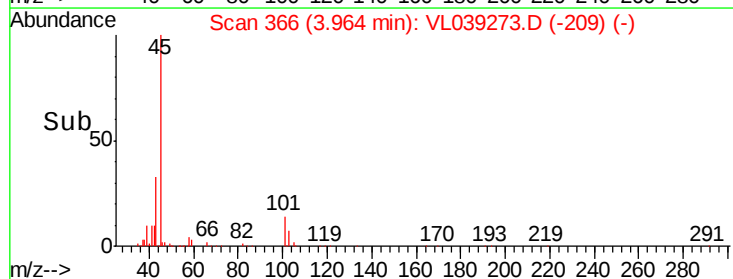
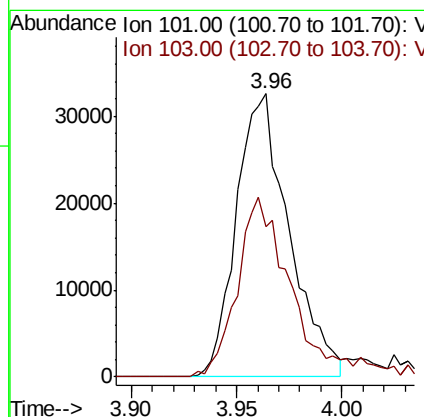
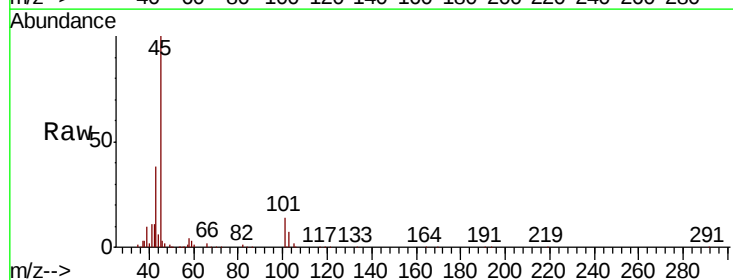
#10
Heptane
Concen: 0.052 ppbv
RT: 8.13
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 5:26

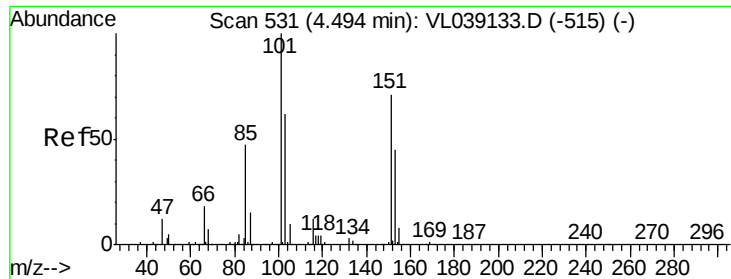
Tot Ion: 43 Resp: 6824
Ion Ratio Lower Upper
43 100
57 164.9 41.4 62.2#



#11
Trichlorofluoromethane
Concen: 0.347 ppbv
RT: 3.96 min Scan# 366
Delta R.T. 0.00 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

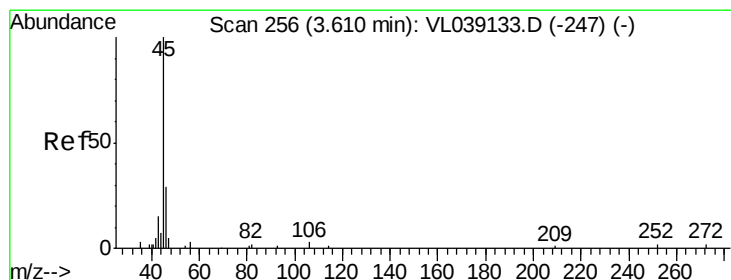
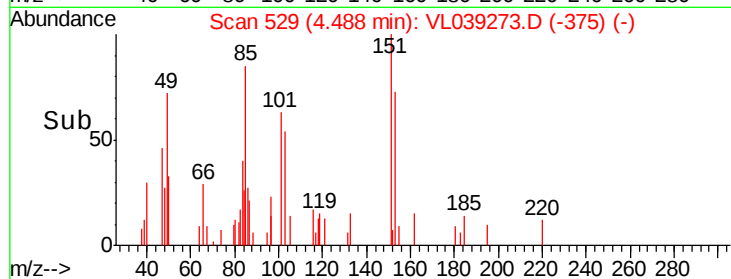
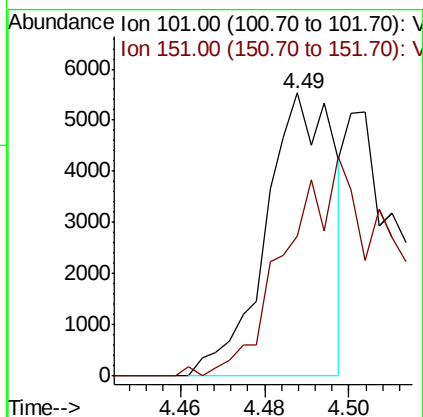
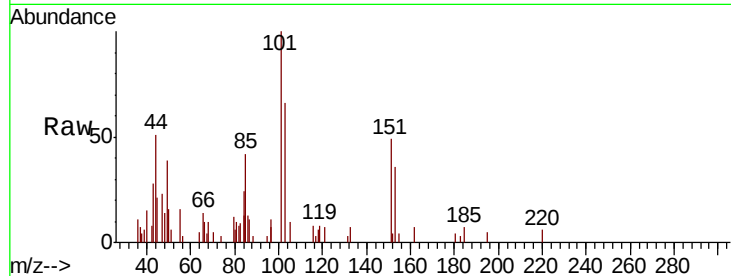
Tgt Ion: 101 Resp: 56457
Ion Ratio Lower Upper
101 100
103 53.0 51.7 77.5





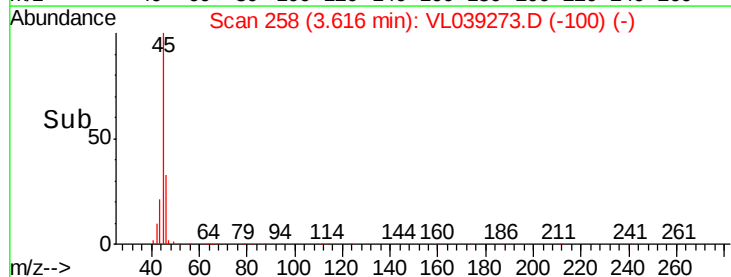
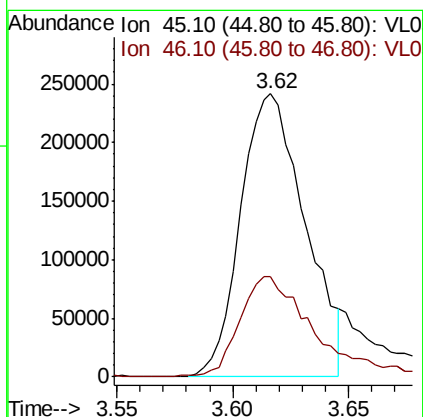
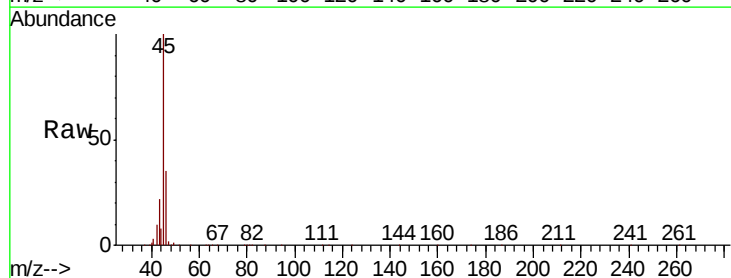
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.058 ppbv
 RT: 4.49
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Jun 2022 5:28

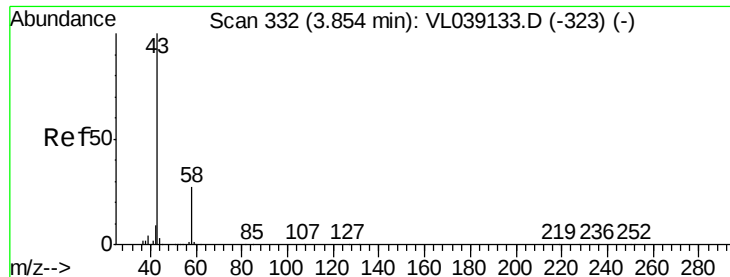
Tot Ion: 101 Resp: 6190
 Ion Ratio Lower Upper
 101 100
 151 0.0 59.4 89.0#



#13
 Ethanol
 Concen: 150.158 ppbv
 RT: 3.62 min Scan# 258
 Delta R.T. 0.01 min
 Lab File: VL039273.D
 Acq: 14 Jun 2022 5:26

Tgt Ion: 45 Resp: 464771
 Ion Ratio Lower Upper
 45 100
 46 41.8 0.0 0.0#





#15

Acetone

Concen: 20.896 ppbv

RT: 3.86 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

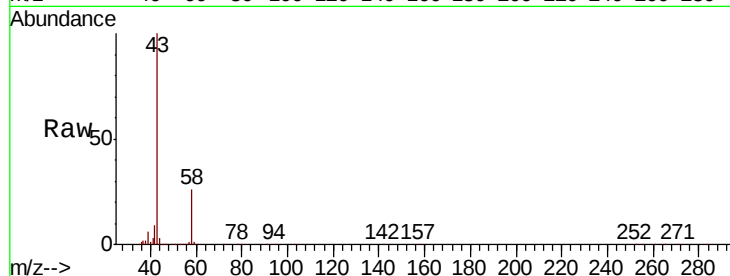
Acq: 14 Jun 2022 5:26

Tot Ion: 43 Resp: 2226769

Ion Ratio Lower Upper

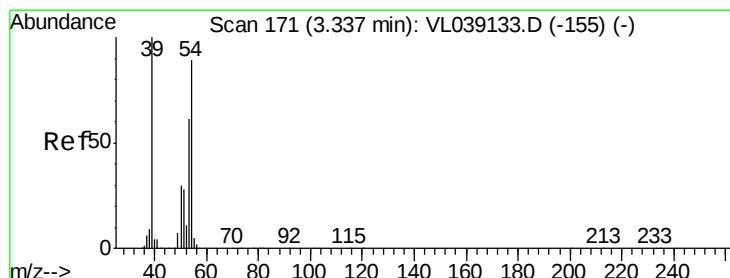
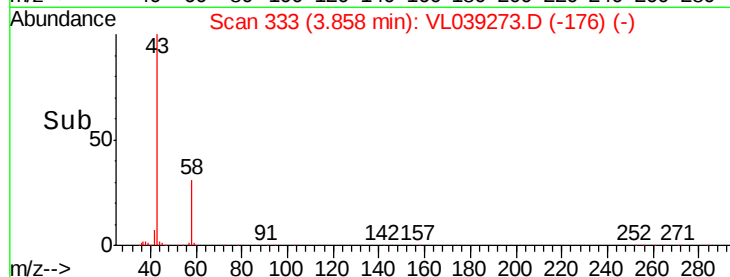
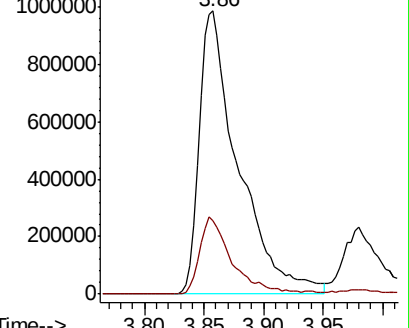
43 100

58 22.9 22.5 33.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.166 ppbv

RT: 3.33 min Scan# 169

Delta R.T. -0.01 min

Lab File: VL039273.D

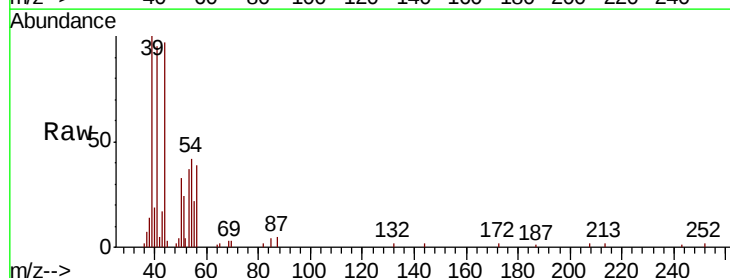
Acq: 14 Jun 2022 5:26

Tgt Ion: 39 Resp: 9515

Ion Ratio Lower Upper

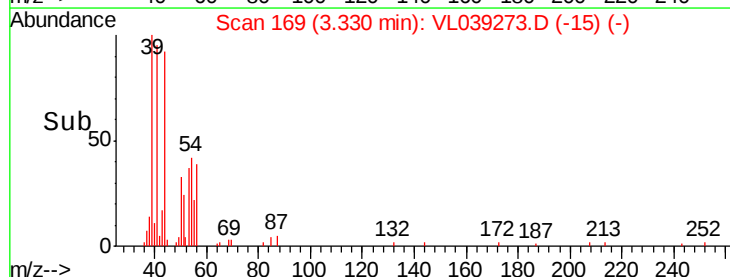
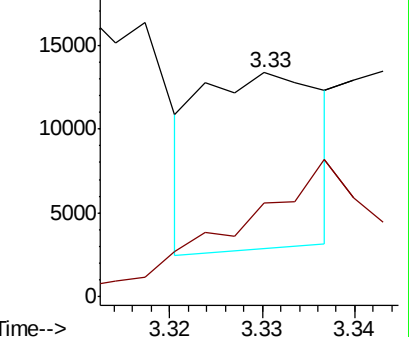
39 100

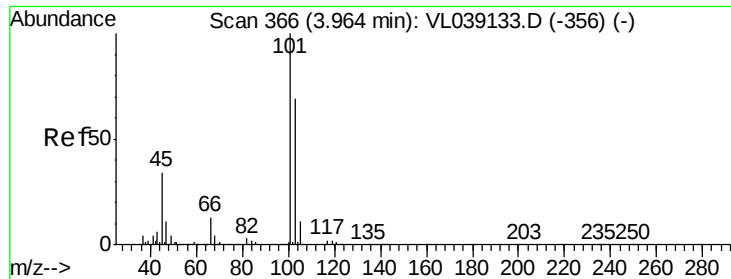
54 174.0 65.8 98.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 34.802 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

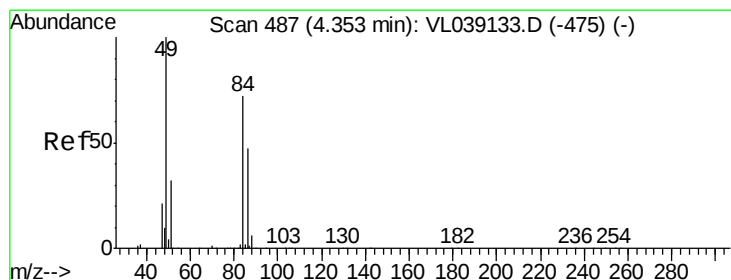
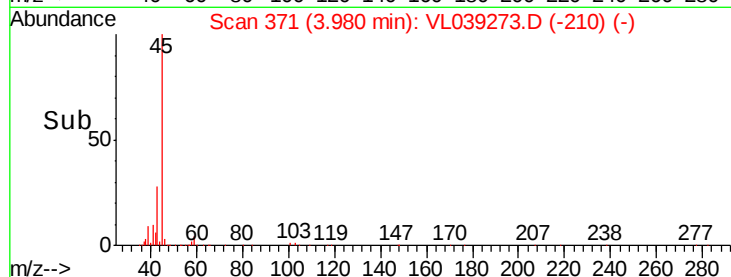
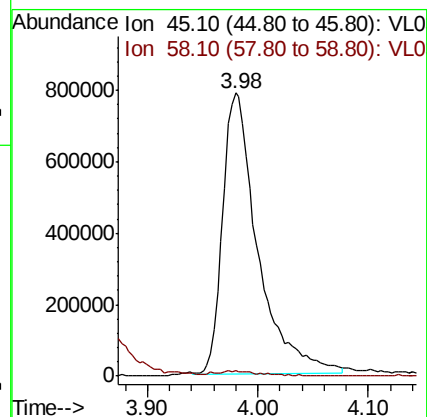
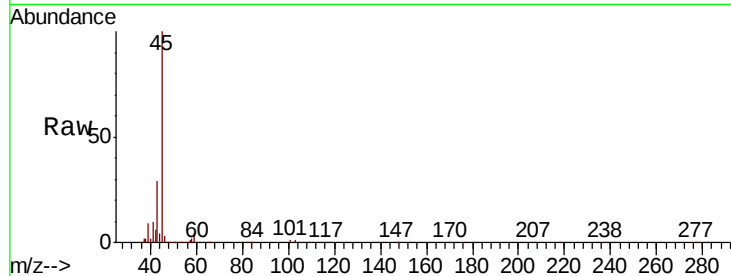
Acq: 14 Jun 2022 5:26

Tot Ion: 45 Resp: 1739398

Ion Ratio Lower Upper

45 100

58 2.3 1.8 2.8



#20

Methylene Chloride

Concen: 6.822 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.00 min

Lab File: VL039273.D

Acq: 14 Jun 2022 5:26

Tgt Ion: 84 Resp: 306362

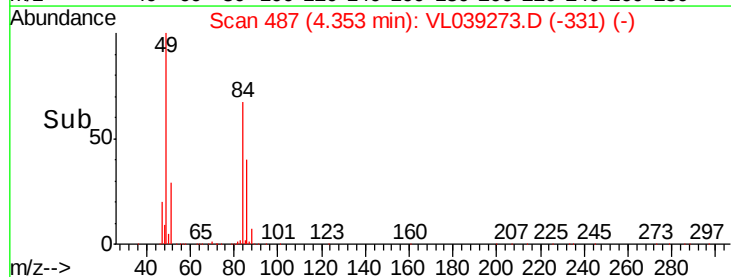
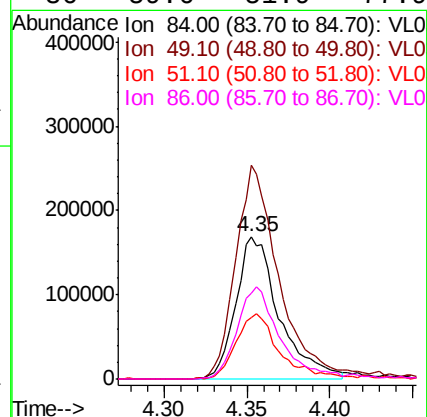
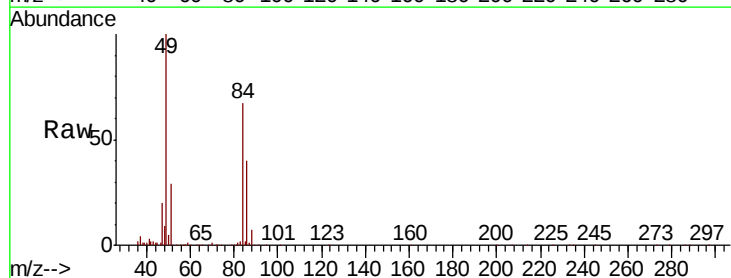
Ion Ratio Lower Upper

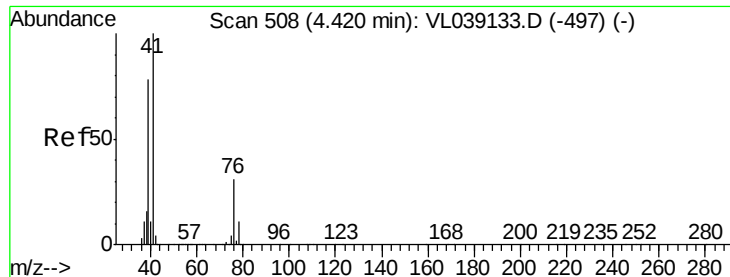
84 100

49 149.3 111.1 166.7

51 42.5 35.3 52.9

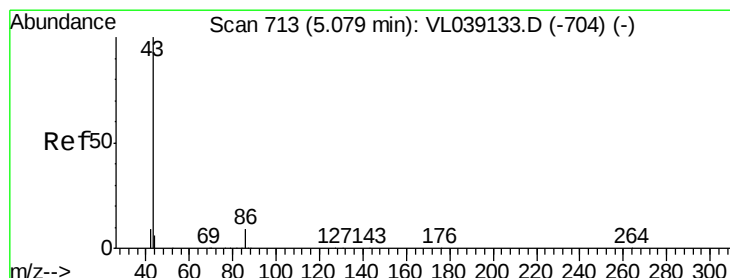
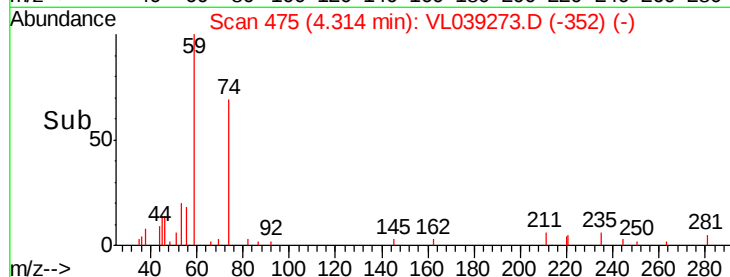
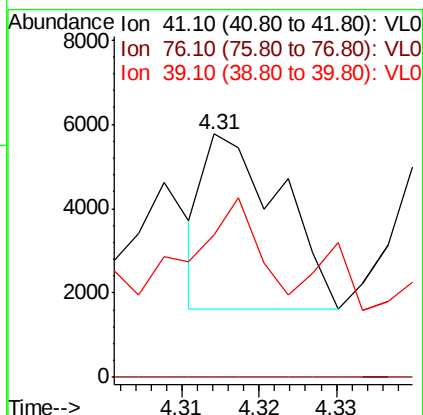
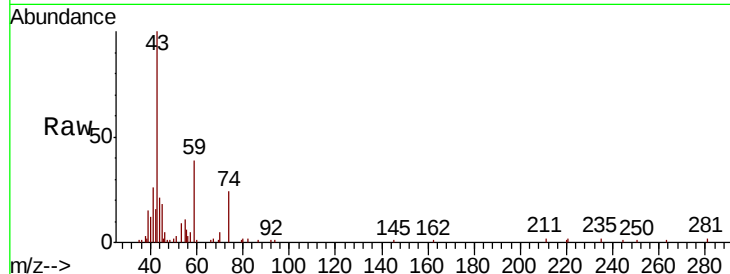
86 59.6 51.9 77.9





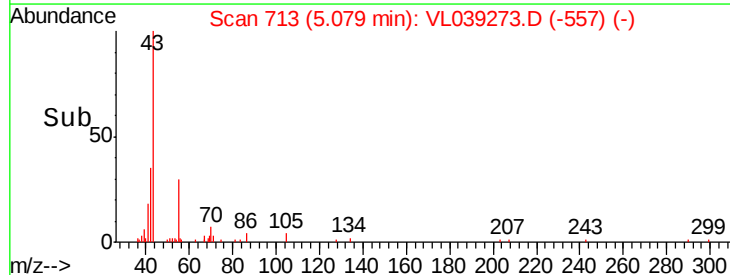
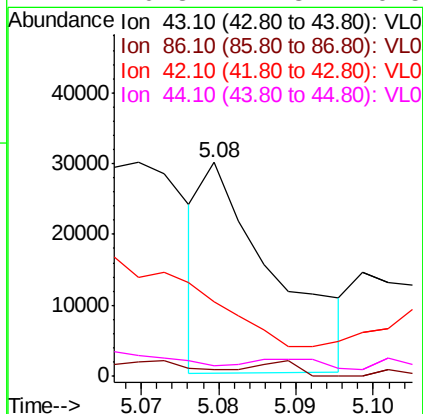
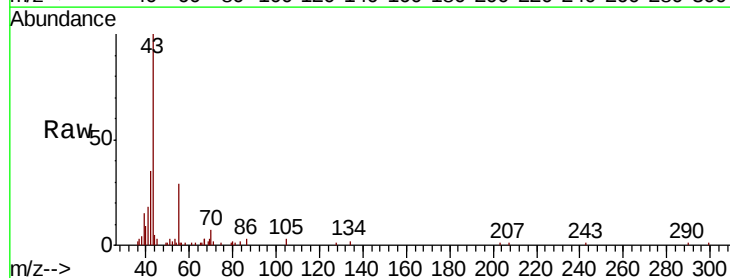
#21
Allvl Chloride
Concen: 0.040 ppbv
RT: 4.31
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 5:28

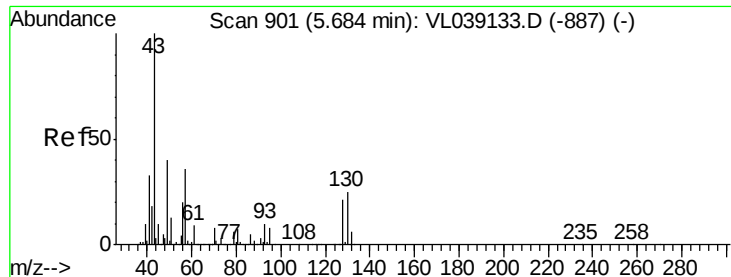
Tot Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.2	36.2#
39	233.9	62.2	93.2#



#23
Vinyl Acetate
Concen: 0.218 ppbv
RT: 5.08 min Scan# 713
Delta R.T. 0.00 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

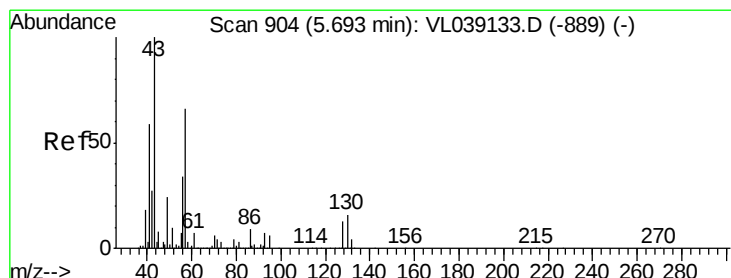
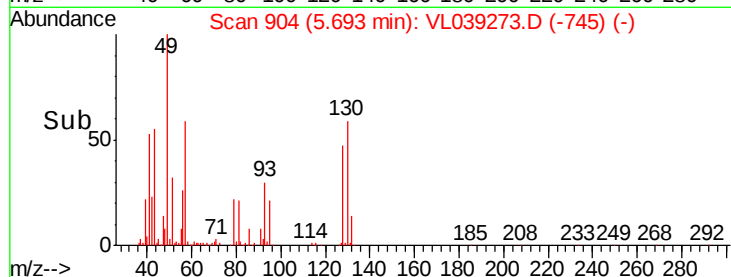
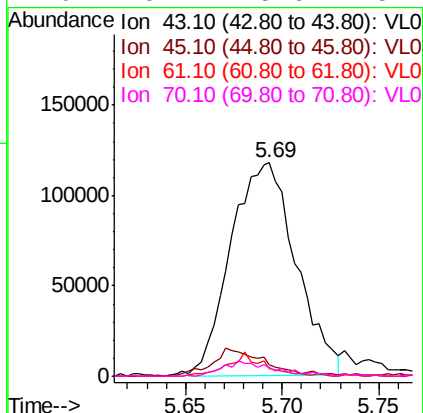
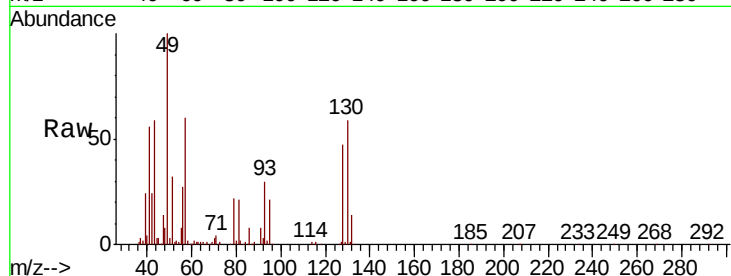
Tgt Ion	Ratio	Lower	Upper
43	100		
86	5.2	6.0	9.0#
42	29.9	8.2	12.4#
44	0.3	4.3	6.5#





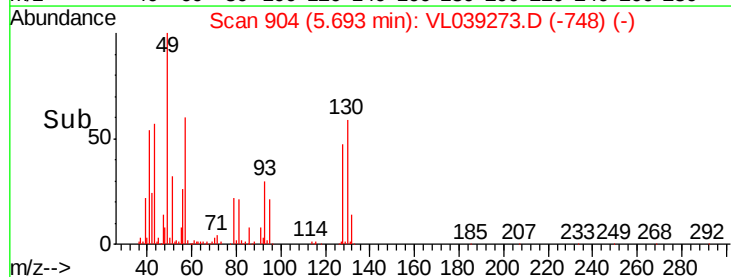
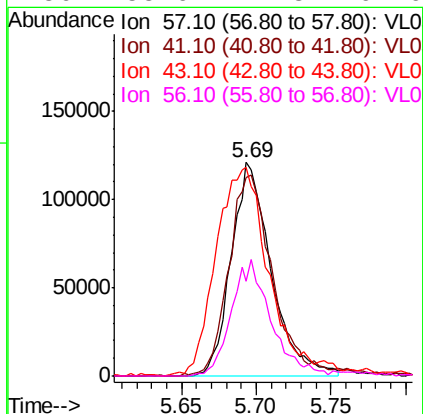
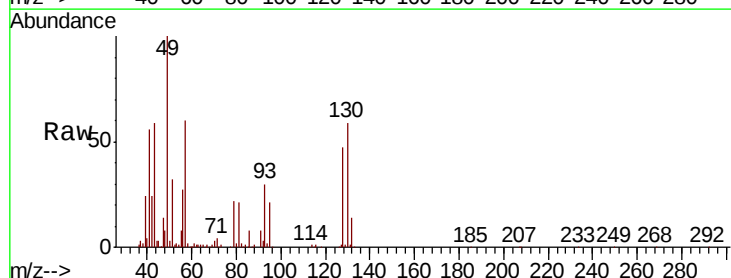
#25
Ethyl Acetate
Concen: 1.145 ppbv
RT: 5.69 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 5:26

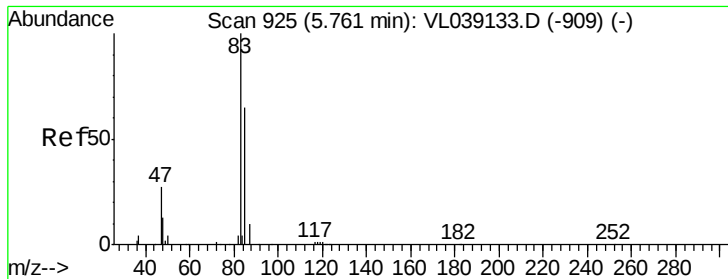
Tot Ion:	43	Resp:	274925
Ion	Ratio	Lower	Upper
43	100		
45	12.0	8.2	12.2
61	6.5	8.4	12.6#
70	6.2	5.6	8.4



#26
Hexane
Concen: 2.136 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.00 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

Tgt Ion:	57	Resp:	225411
Ion	Ratio	Lower	Upper
57	100		
41	105.5	72.4	108.6
43	133.5	187.0	280.6#
56	55.6	41.8	62.6





#29

Chloroform

Concen: 0.035 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

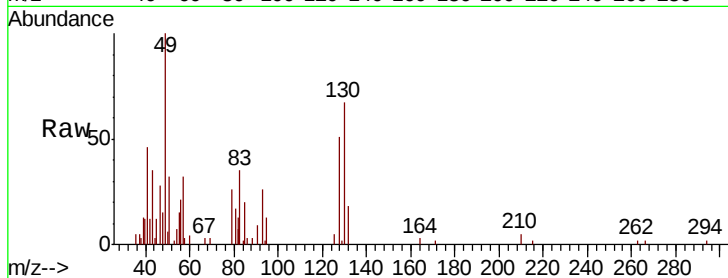
Acq: 14 Jun 2022 5:26

Tot Ion: 83 Resp: 6244

Ion Ratio Lower Upper

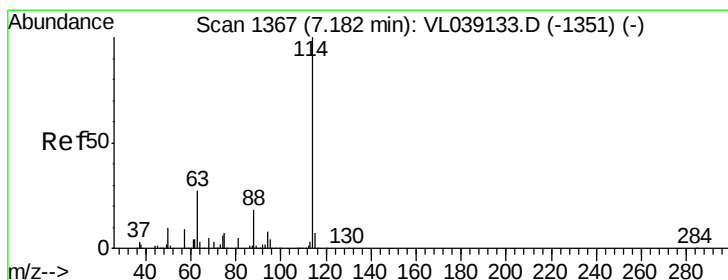
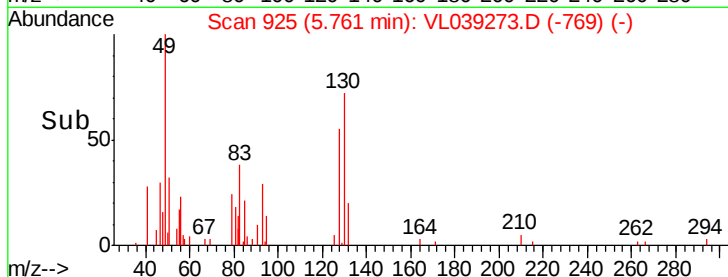
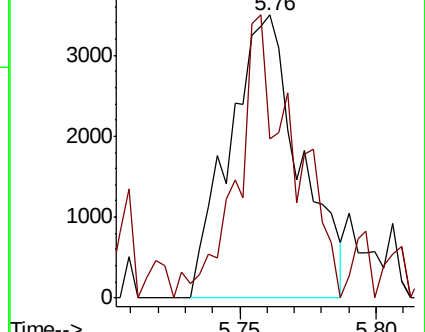
83 100

85 56.1 52.4 78.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.00 min

Lab File: VL039273.D

Acq: 14 Jun 2022 5:26

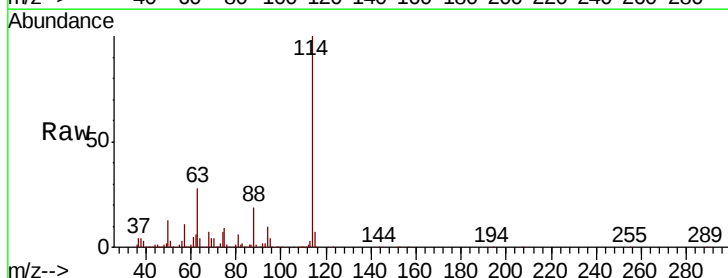
Tgt Ion: 114 Resp: 2329054

Ion Ratio Lower Upper

114 100

63 30.1 21.7 32.5

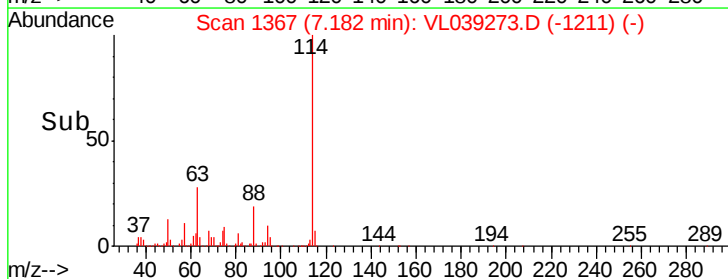
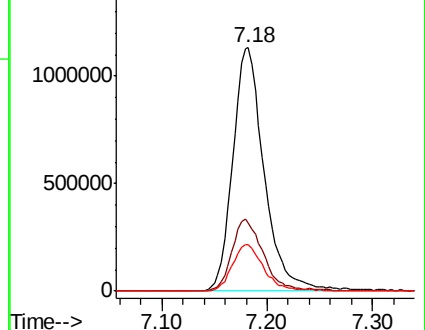
88 19.5 14.8 22.2

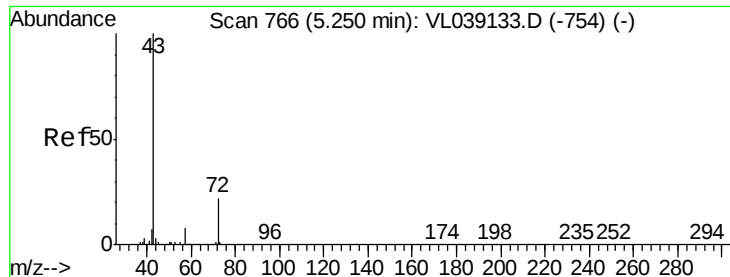


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

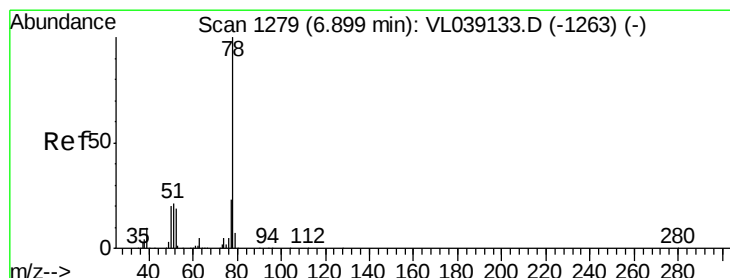
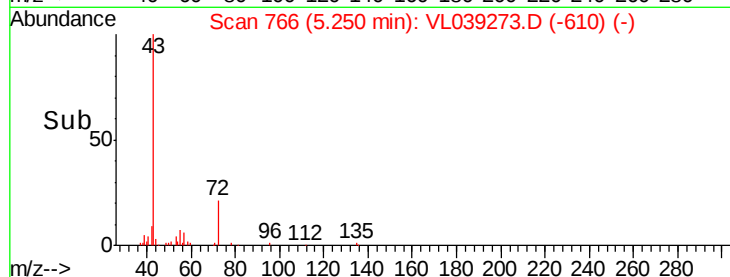
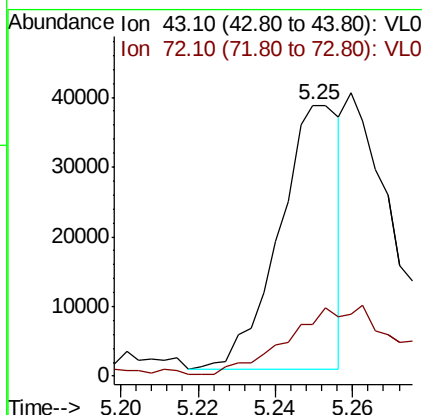
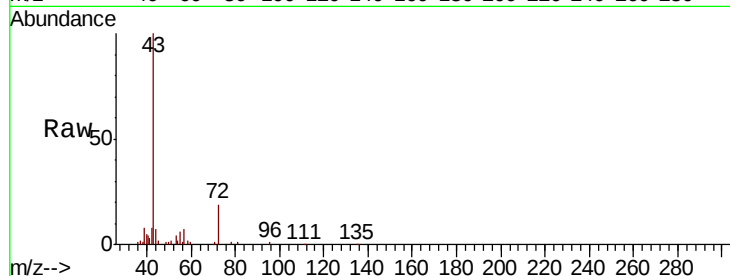
Ion 88.10 (87.80 to 88.80): VL0





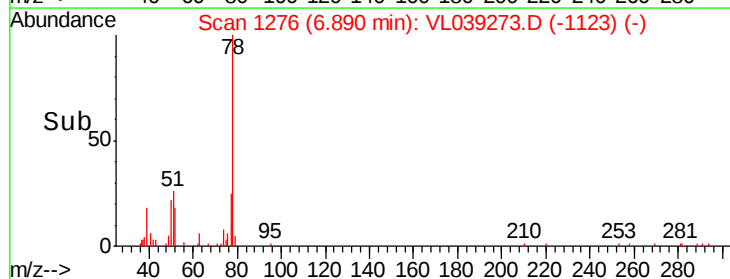
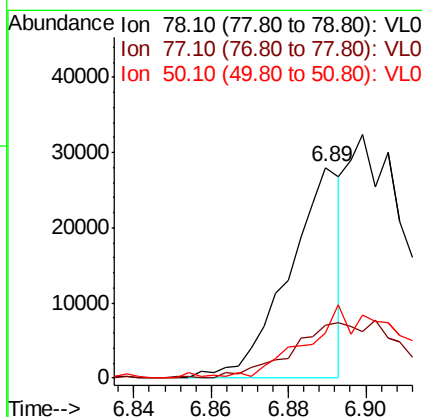
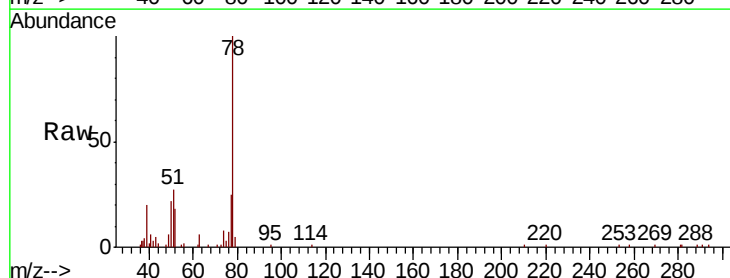
#34
2-Butanone
Concen: 0.326 ppbv
RT: 5.25
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 5:26

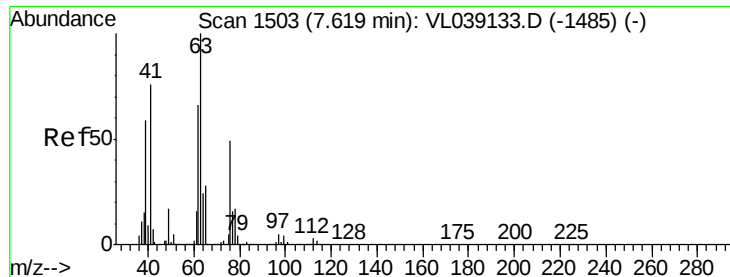
Tot Ion: 43 Resp: 41298
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.2#



#36
Benzene
Concen: 0.139 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

Tgt Ion: 78 Resp: 26367
Ion Ratio Lower Upper
78 100
77 24.3 18.6 27.8
50 19.2 15.8 23.8





#39

1,2-Dichloropropane

Concen: 9.026 ppbv

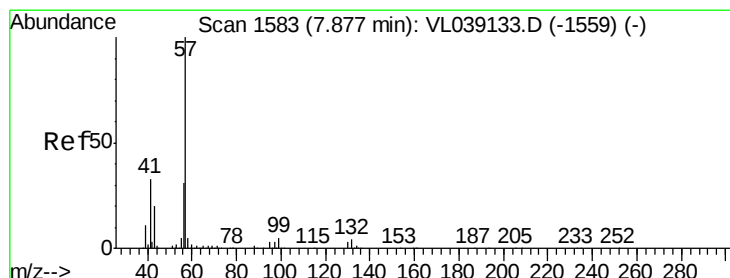
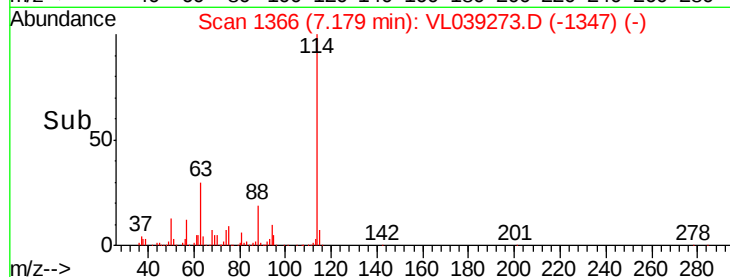
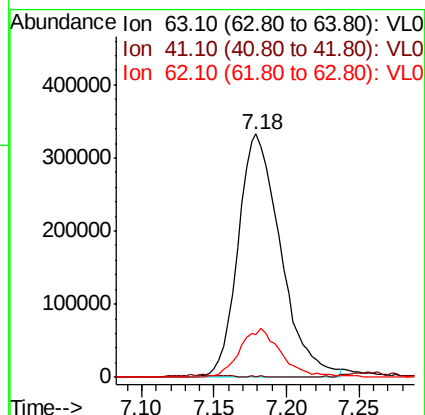
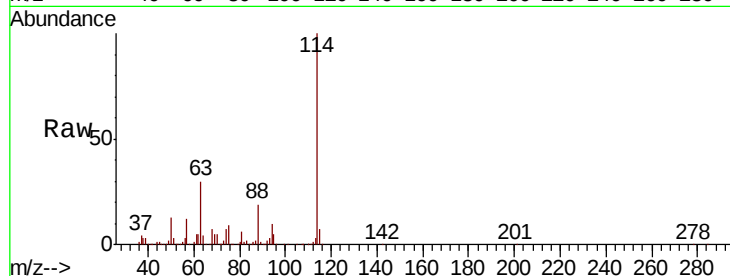
RT: 7.18 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 14 Jun 2022 5:26

Tot Ion:	63	Resp:	678857
Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	17.7	52.9	79.3#



#44

2,2,4-Trimethylpentane

Concen: 0.217 ppbv

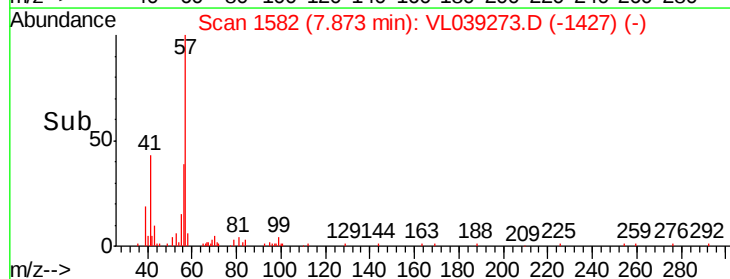
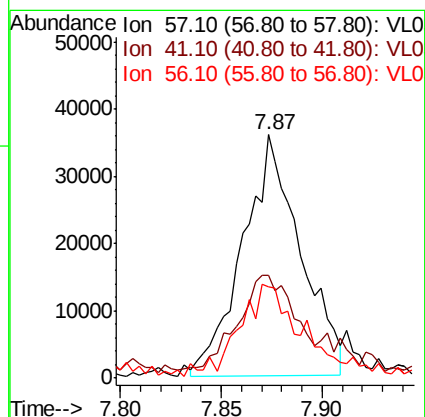
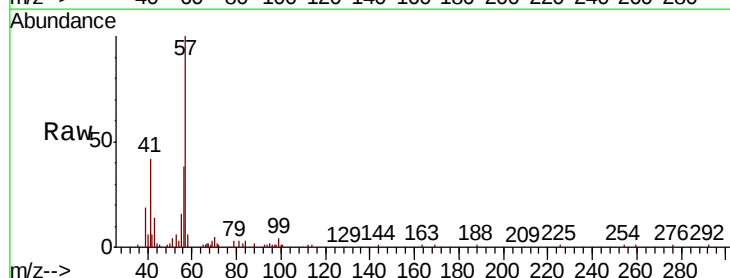
RT: 7.87 min Scan# 1582

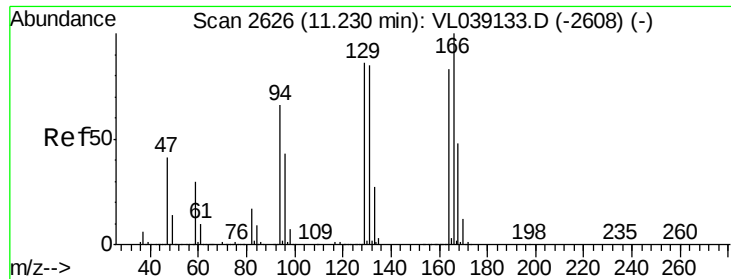
Delta R.T. -0.00 min

Lab File: VL039273.D

Acq: 14 Jun 2022 5:26

Tgt Ion:	57	Resp:	71793
Ion	Ratio	Lower	Upper
57	100		
41	53.1	26.2	39.4#
56	47.6	24.7	37.1#





#52

Tetrachloroethene

Concen: 0.504 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Jun 2022 5:28

Tot Ion:164 Resp: 37228

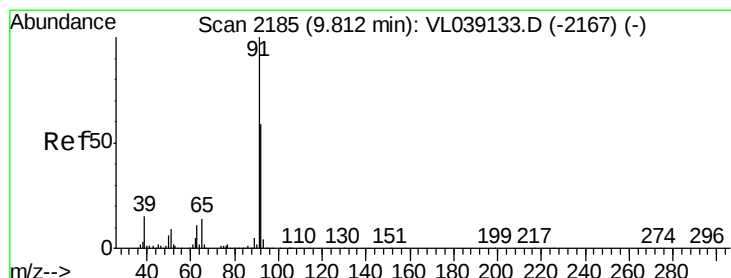
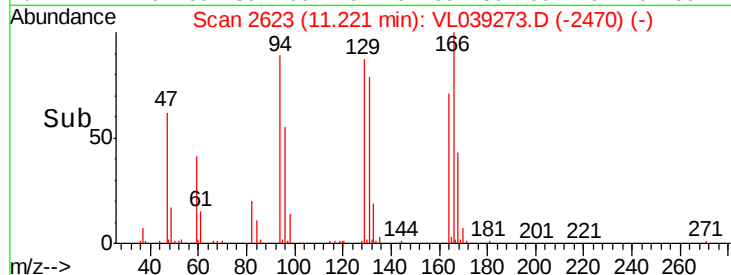
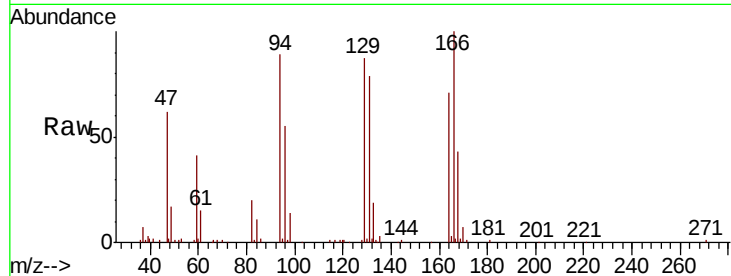
Ion Ratio Lower Upper

164 100

166 137.3 96.3 144.5

129 122.7 82.5 123.7

131 108.6 82.1 123.1



#53

Toluene

Concen: 0.782 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL039273.D

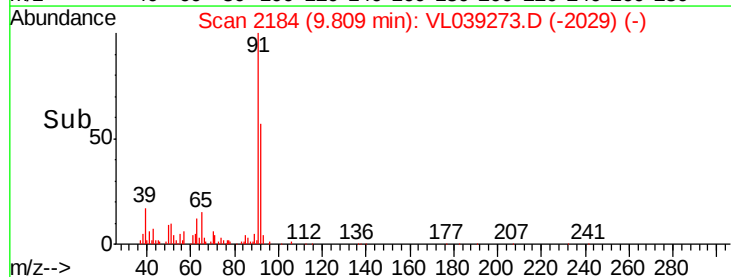
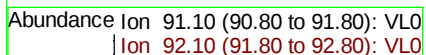
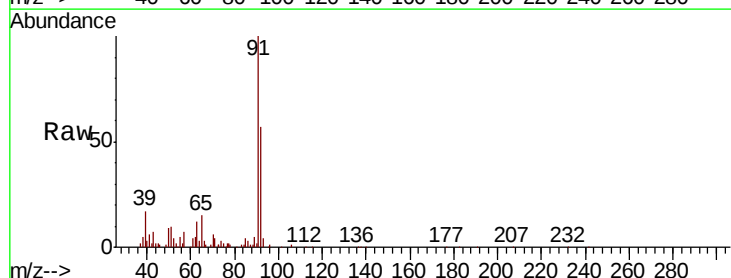
Acq: 14 Jun 2022 5:26

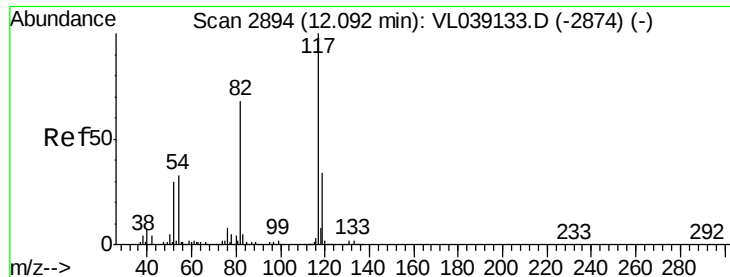
Tgt Ion: 91 Resp: 170227

Ion Ratio Lower Upper

91 100

92 59.0 48.1 72.1

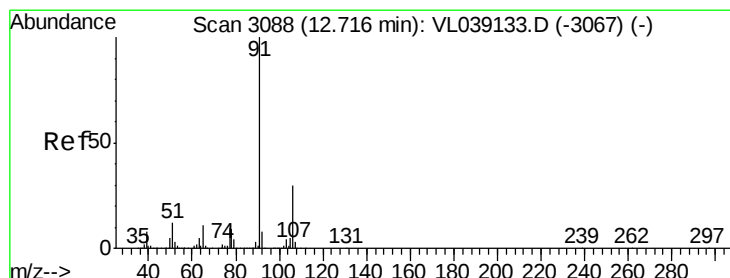
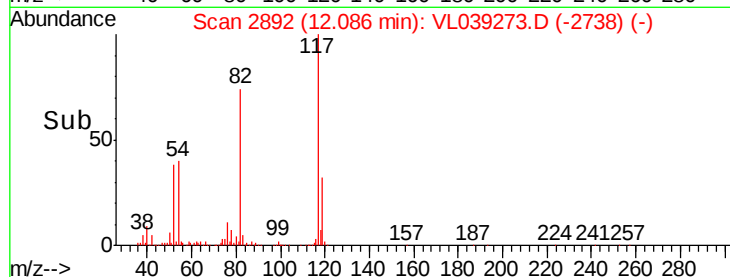
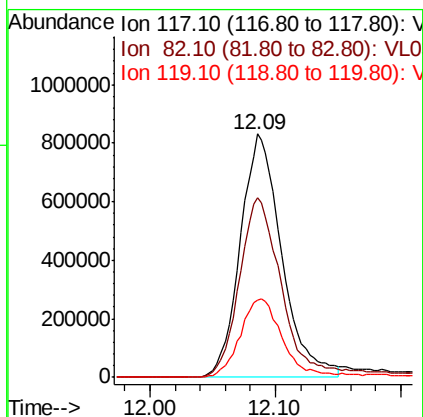
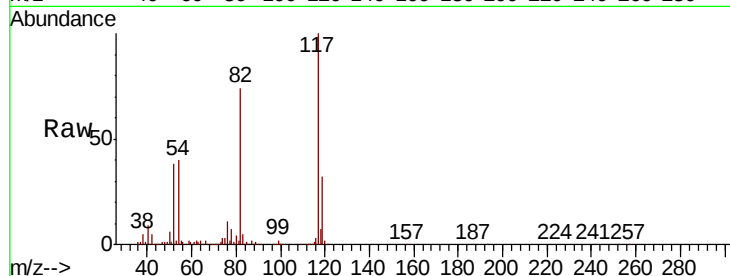




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 Jun 2022 5:28

Tot Ion: 117 Resp: 1908478

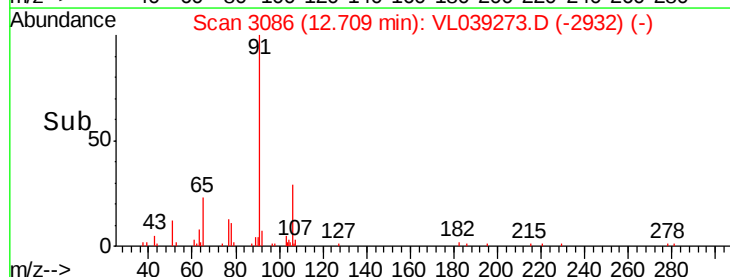
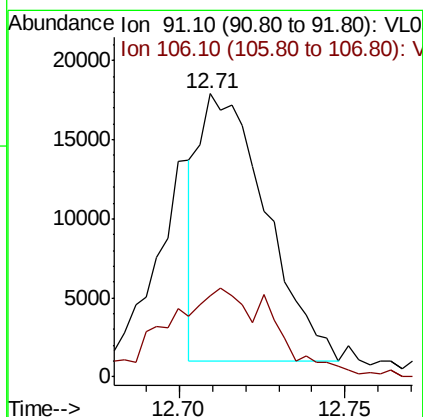
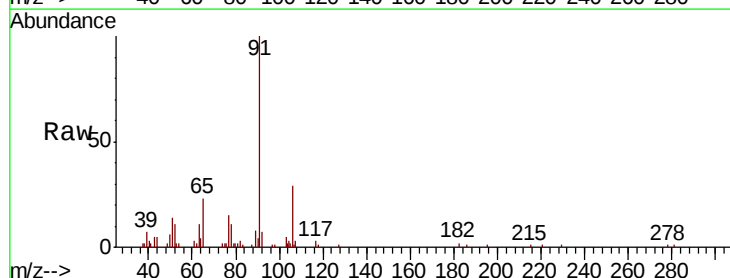
Ion	Ratio	Lower	Upper
117	100		
82	79.9	55.1	82.7
119	35.6	24.7	37.1

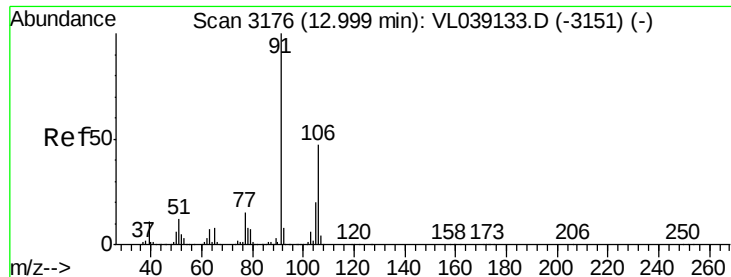


#58
Ethyl Benzene
Concen: 0.090 ppbv
RT: 12.71 min Scan# 3086
Delta R.T.: -0.01 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

Tgt Ion: 91 Resp: 23708

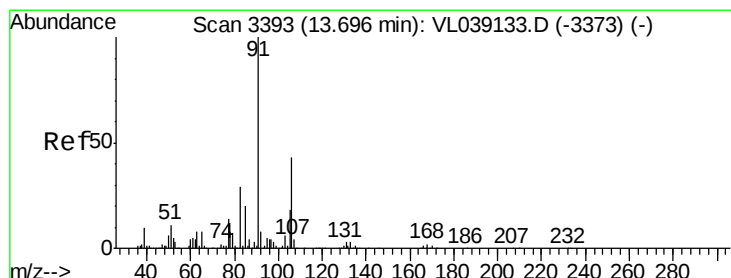
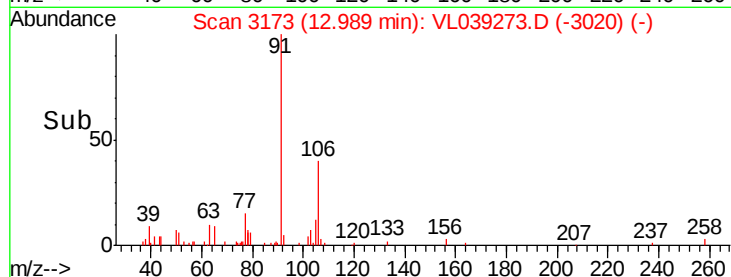
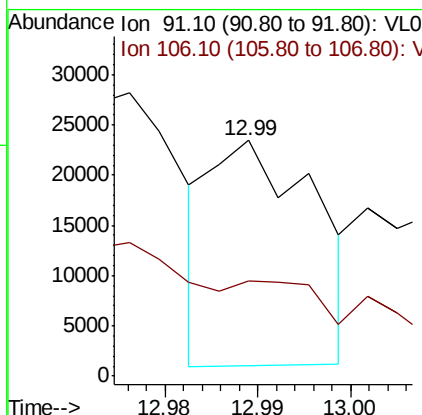
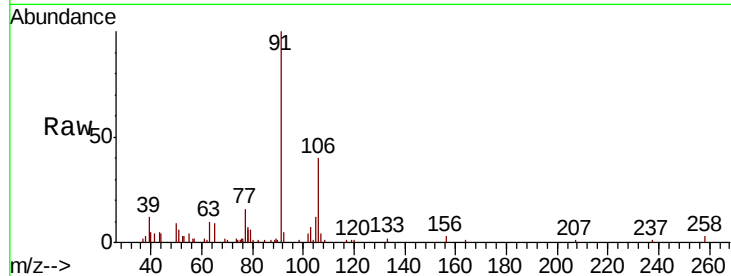
Ion	Ratio	Lower	Upper
91	100		
106	27.8	24.2	36.4





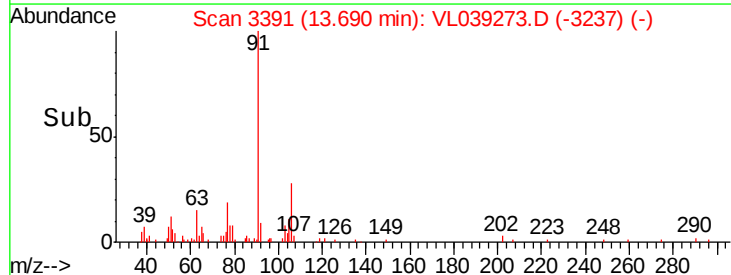
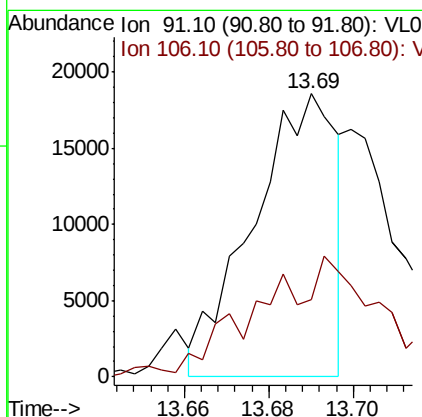
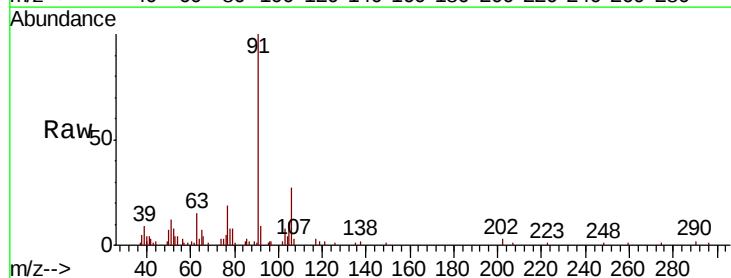
#59
m/p-Xylene
Concen: 0.076 ppbv
RT: 12.99 min
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 14 Jun 2022 5:26

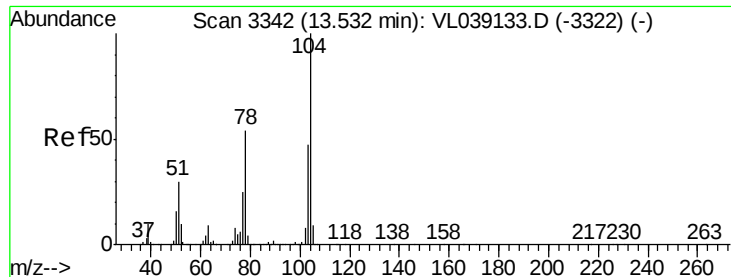
Tot Ion: 91 Resp: 17602
Ion Ratio Lower Upper
91 100
106 0.0 34.3 51.5#



#60
o-Xylene
Concen: 0.117 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

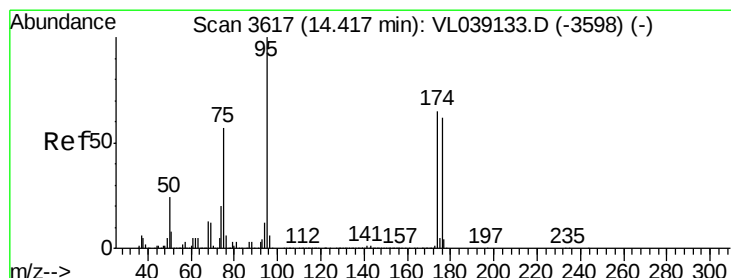
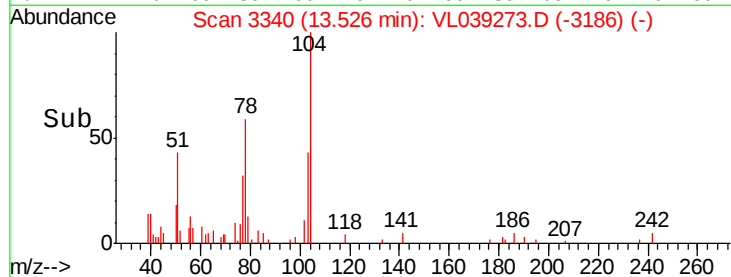
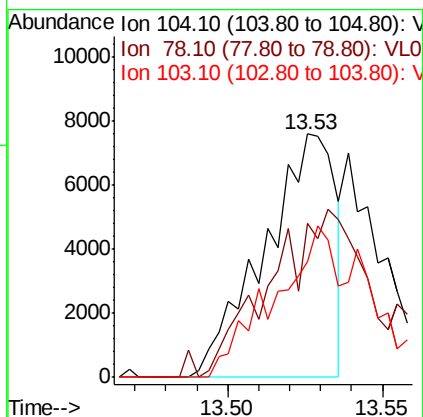
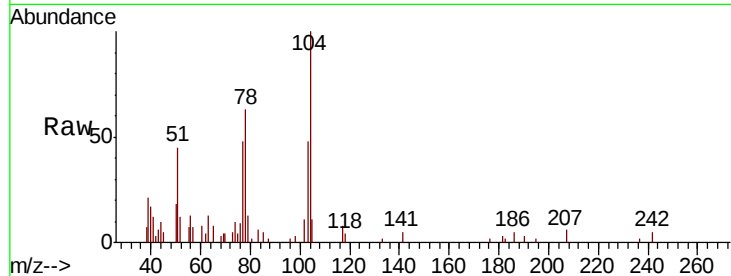
Tgt Ion: 91 Resp: 25520
Ion Ratio Lower Upper
91 100
106 66.7 22.3 66.9





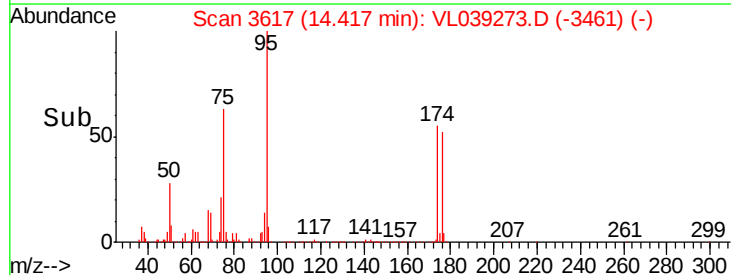
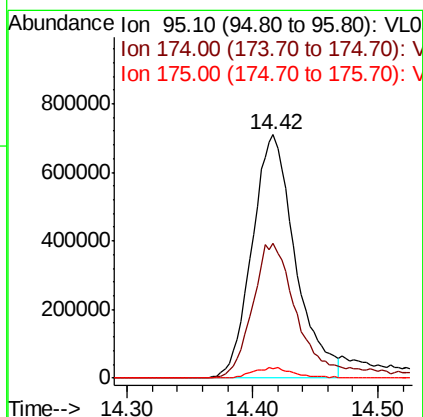
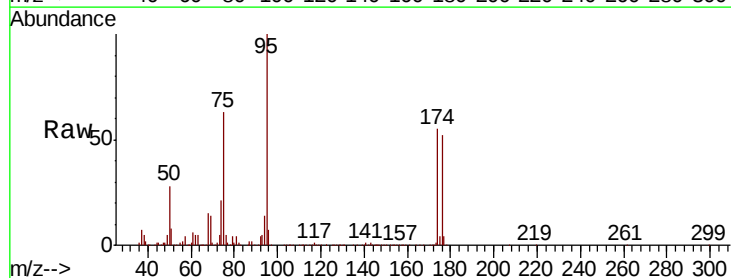
#61
Stvrene
Concen: 0.104 ppbv
RT: 13.53 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 5:26

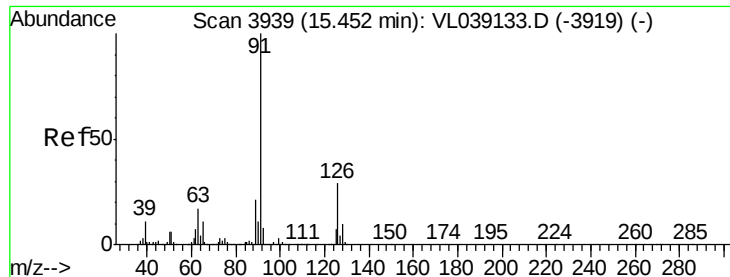
Tot Ion	Ratio	Lower	Upper
104	100		
78	112.8	45.7	68.5#
103	86.8	39.6	59.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.750 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. 0.00 min
Lab File: VL039273.D
Acq: 14 Jun 2022 5:26

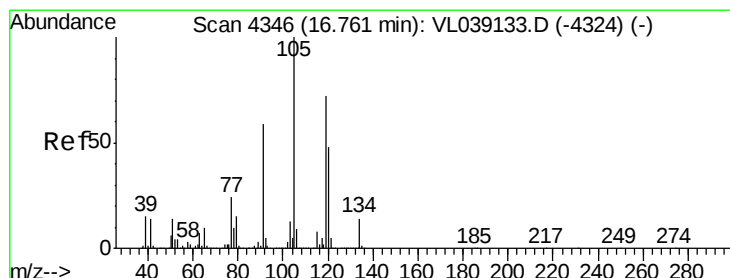
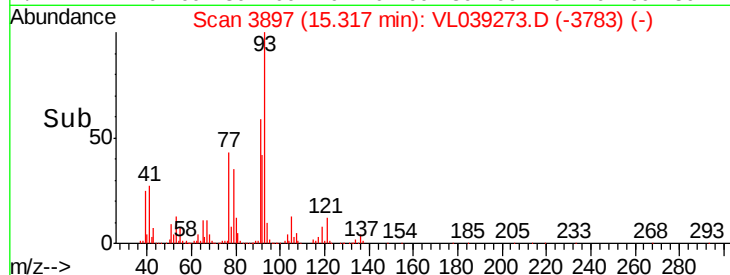
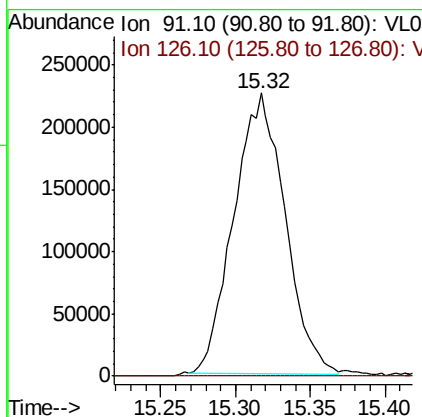
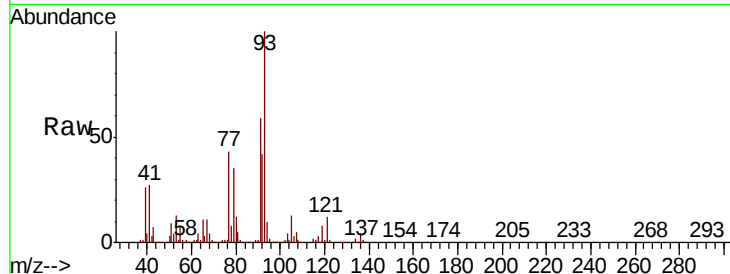
Tgt Ion	Ratio	Lower	Upper
95	100		
174	62.5	53.8	80.8
175	4.4	4.1	6.1





#71
 2-Chlorotoluene
 Concen: 2.173 ppbv
 RT: 15.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Jun 2022 5:28

Tot Ion: 91 Resp: 535644
 Ion Ratio Lower Upper
 91 100
 126 0.0 12.2 48.6#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.193 ppbv
 RT: 16.76 min Scan# 4346
 Delta R.T. 0.00 min
 Lab File: VL039273.D
 Acq: 14 Jun 2022 5:26

Tgt Ion: 105 Resp: 49506
 Ion Ratio Lower Upper
 105 100
 120 29.2 38.1 57.1#
 91 10.3 47.4 71.0#
 77 14.1 19.5 29.3#

