

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062422\
 Data File : VL039343.D
 Acq On : 24 Jun 2022 16:21
 Operator : SY/AP
 Sample : N3489-03 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SV-5-20220622

Quant Time: Jun 27 01:49:37 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	1251939	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3536721	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	3185768	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2339148	8.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	88.80%

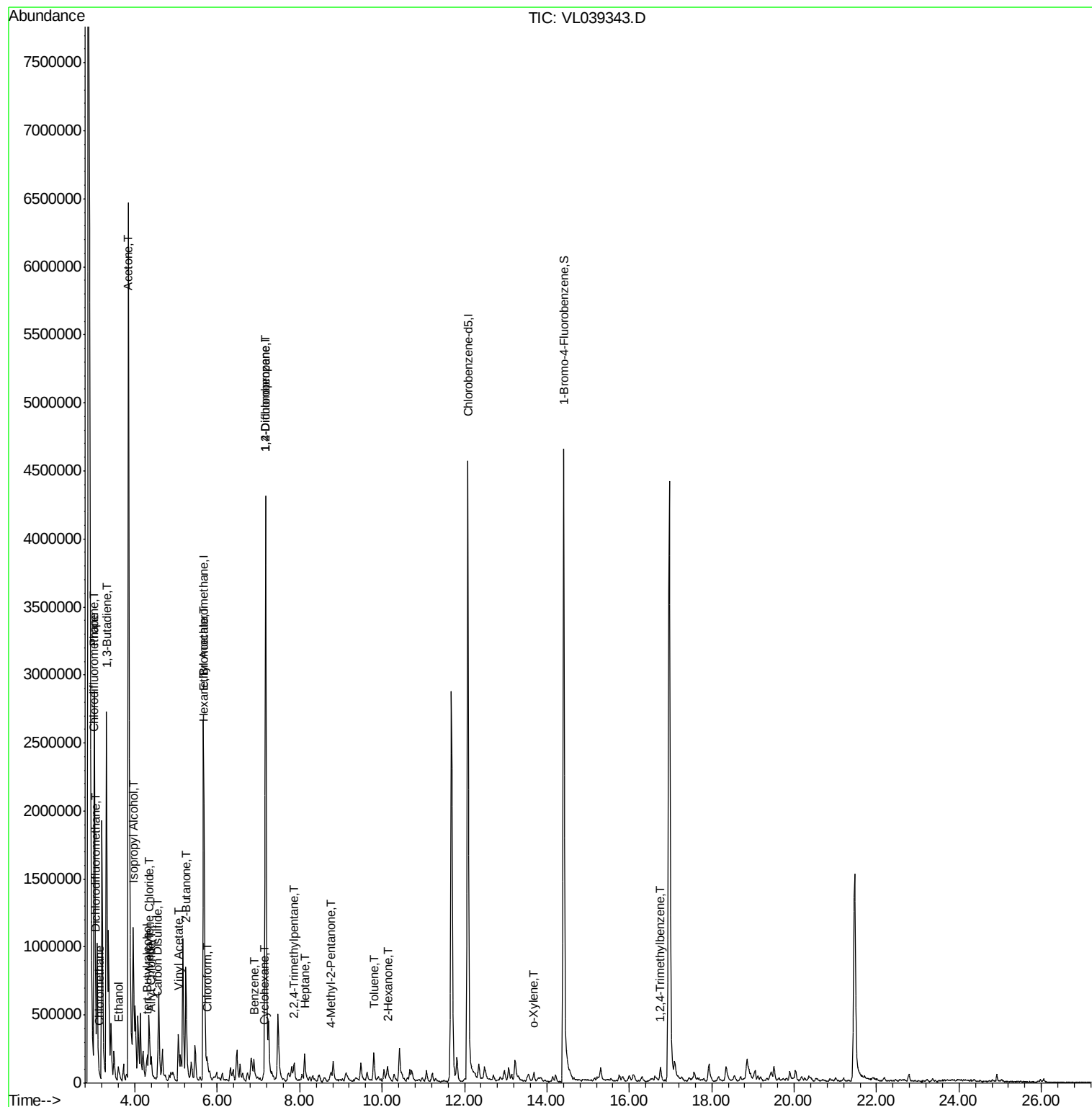
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	19803	0.090 ppbv	92
3) Chlorodifluoromethane	3.00	51	12462	0.078 ppbv #	87
4) Chloromethane	3.14	50	7443	0.091 ppbv	94
9) Propene	3.01	41	1520661	21.893 ppbv	92
10) Heptane	8.12	43	83235	0.514 ppbv	96
13) Ethanol	3.60	45	144410	38.124 ppbv #	100
15) Acetone	3.84	43	8459174	64.865 ppbv #	89
16) 1,3-Butadiene	3.31	39	986258	14.068 ppbv #	25
17) tert-Butyl alcohol	4.28	59	34622	0.342 ppbv #	70
19) Isopropyl Alcohol	3.96	45	1269014	20.747 ppbv #	1
20) Methylene Chloride	4.35	84	175358	3.191 ppbv	91
21) Allyl Chloride	4.40	41	13737	0.156 ppbv #	1
23) Vinyl Acetate	5.06	43	211794	1.963 ppbv #	74
25) Ethyl Acetate	5.68	43	160291	0.545 ppbv #	79
26) Hexane	5.68	57	228000	1.765 ppbv #	35
27) Carbon Disulfide	4.55	76	82229	0.614 ppbv #	85
29) Chloroform	5.75	83	48640	0.224 ppbv	85
30) Cyclohexane	7.12	84	6972	0.064 ppbv #	1
34) 2-Butanone	5.24	43	973047	5.064 ppbv	93
36) Benzene	6.89	78	115829	0.403 ppbv #	89
39) 1,2-Dichloropropane	7.17	63	878189	7.689 ppbv #	24
44) 2,2,4-Trimethylpentane	7.86	57	51169	0.102 ppbv #	43
50) 4-Methyl-2-Pentanone	8.75	43	23534	0.082 ppbv #	39
51) 2-Hexanone	10.14	43	62317	0.278 ppbv #	64
53) Toluene	9.80	91	51441	0.156 ppbv #	21
60) o-Xylene	13.68	91	25723	0.071 ppbv #	31
74) 1,2,4-Trimethylbenzene	16.75	105	35321	0.082 ppbv #	60

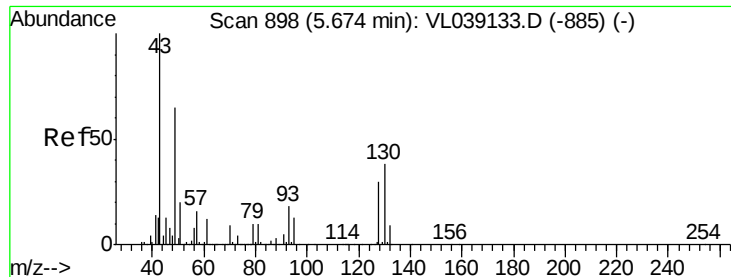
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062422\
Data File : VL039343.D
Acq On : 24 Jun 2022 16:21
Operator : SY/AP
Sample : N3489-03 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-5-20220622

Quant Time: Jun 27 01:49:37 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: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jun 2022 16:21 SV-5-20220622

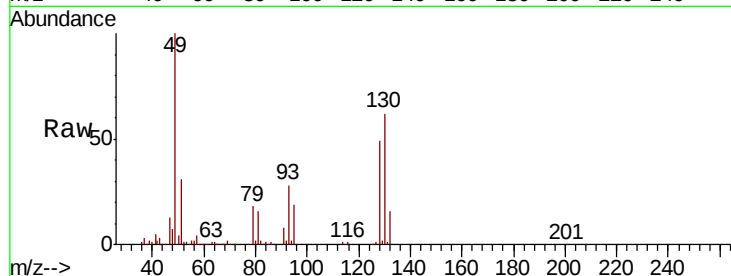
Tot Ion: 49 Resp: 1251939

Ion Ratio Lower Upper

49 100

128 54.4 24.7 74.1

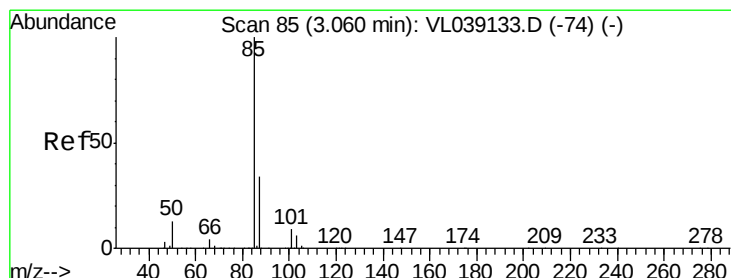
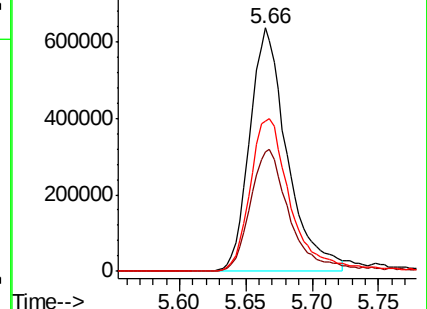
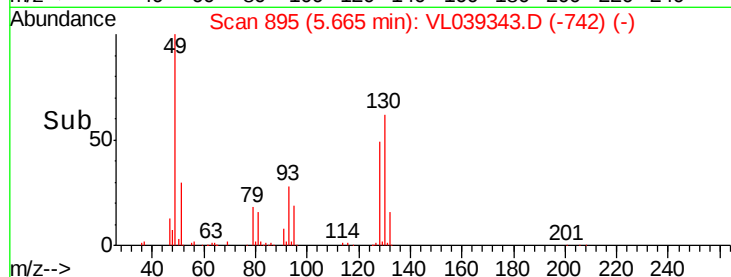
130 69.6 31.4 94.0



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: 0.090 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.01 min

Lab File: VL039343.D

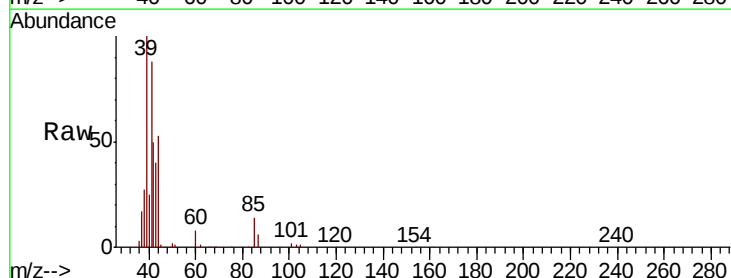
Acq: 24 Jun 2022 16:21

Tgt Ion: 85 Resp: 19803

Ion Ratio Lower Upper

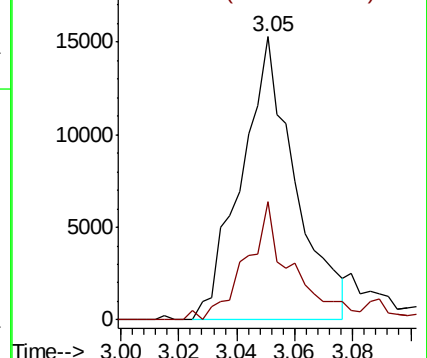
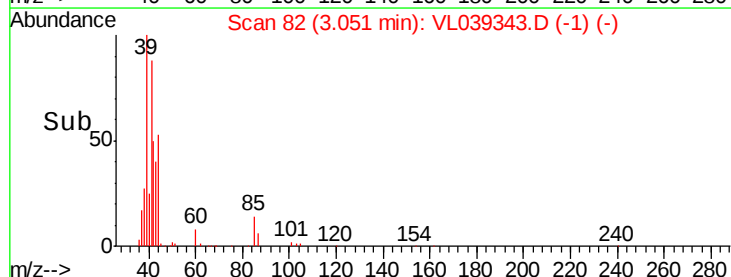
85 100

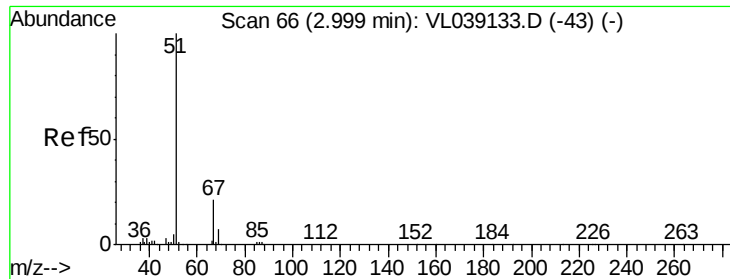
87 38.3 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.078 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

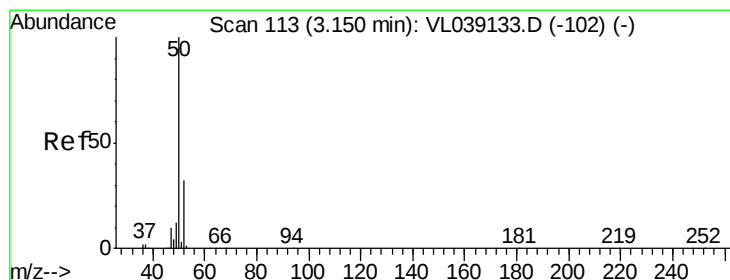
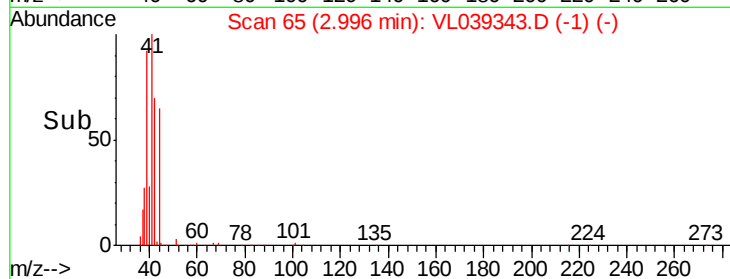
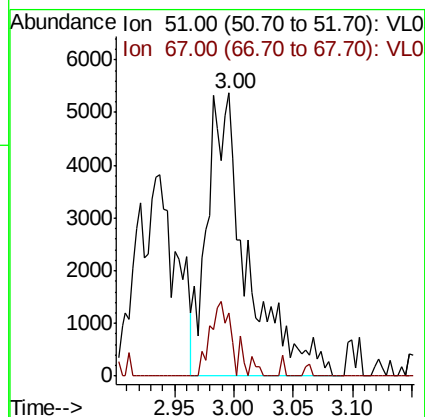
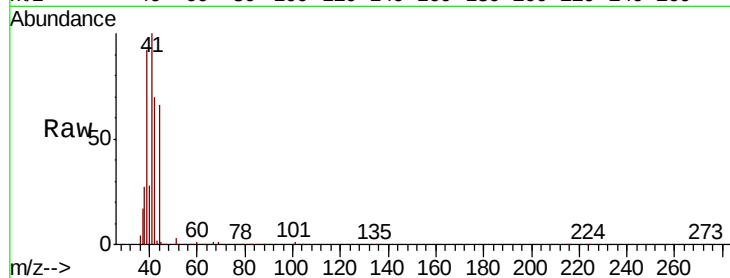
Acq: 24 Jun 2022 16:21 SV-5-20220622

Tot Ion: 51 Resp: 12462

Ion Ratio Lower Upper

51 100

67 14.2 16.2 24.4#



#4

Chloromethane

Concen: 0.091 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL039343.D

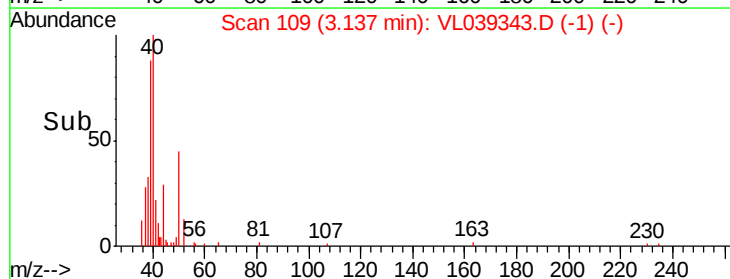
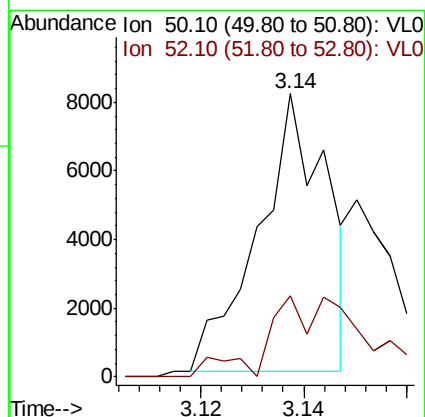
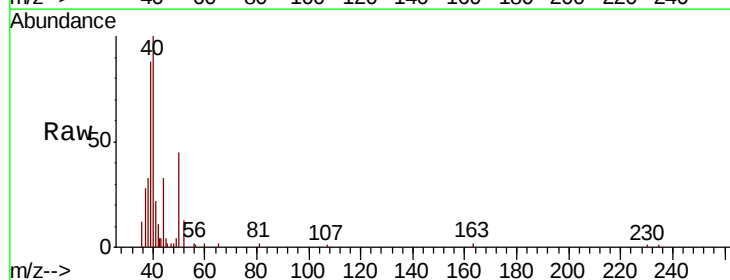
Acq: 24 Jun 2022 16:21

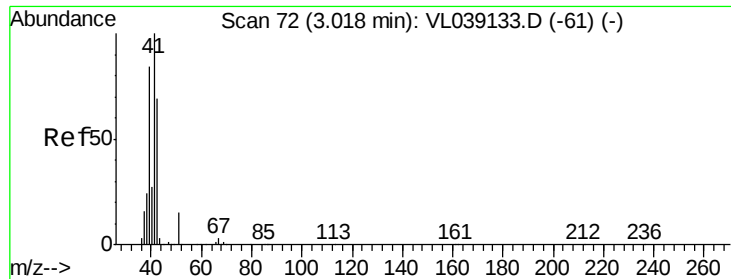
Tgt Ion: 50 Resp: 7443

Ion Ratio Lower Upper

50 100

52 29.0 25.9 38.9





#9

Propene

Concen: 21.893 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

SV-5-20220622

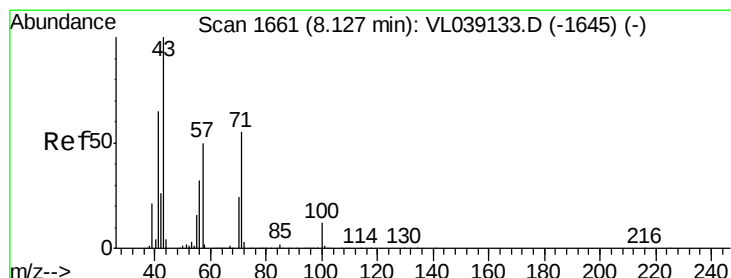
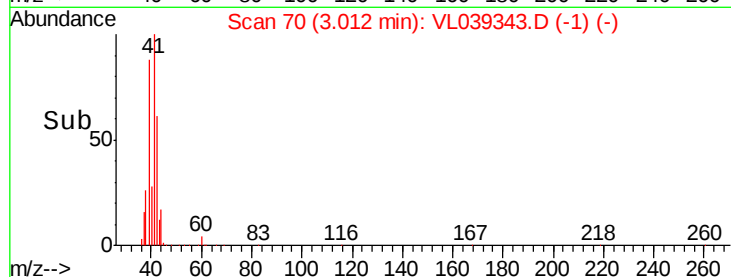
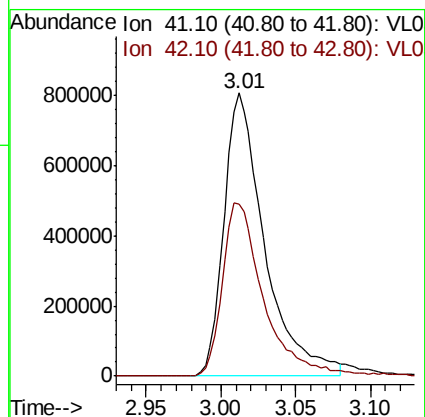
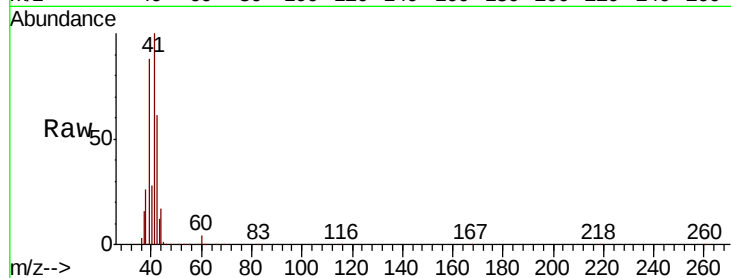
Acq: 24 Jun 2022 16:21

Tot Ion: 41 Resp: 1520661

Ion Ratio Lower Upper

41 100

42 62.9 55.4 83.2



#10

Heptane

Concen: 0.514 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL039343.D

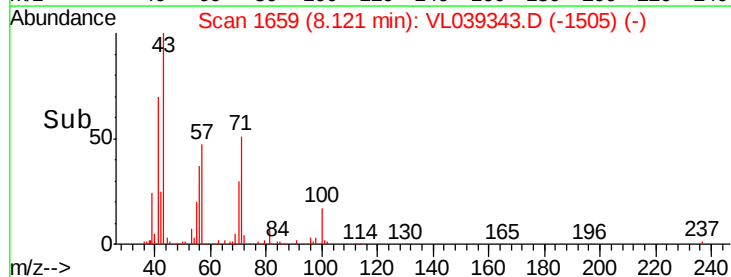
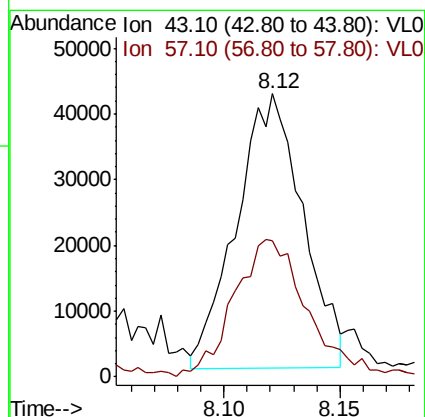
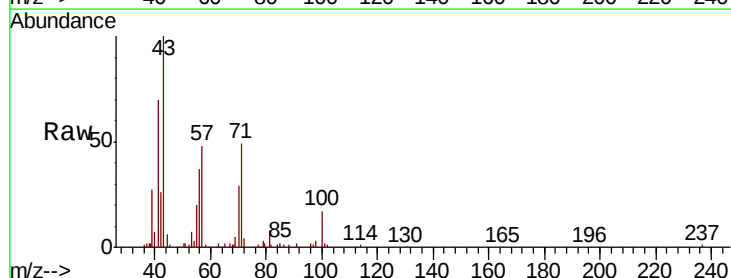
Acq: 24 Jun 2022 16:21

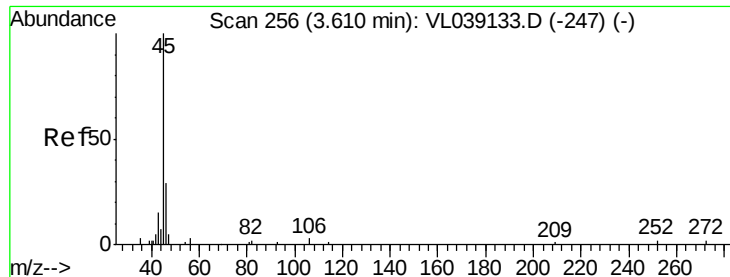
Tgt Ion: 43 Resp: 83235

Ion Ratio Lower Upper

43 100

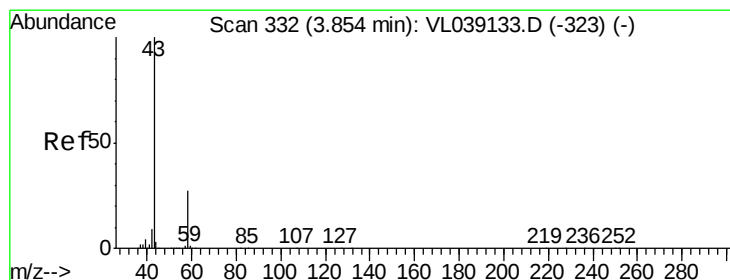
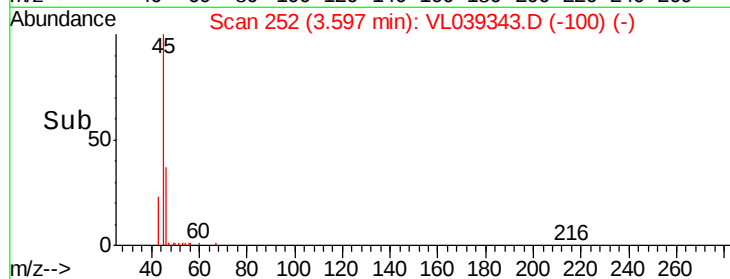
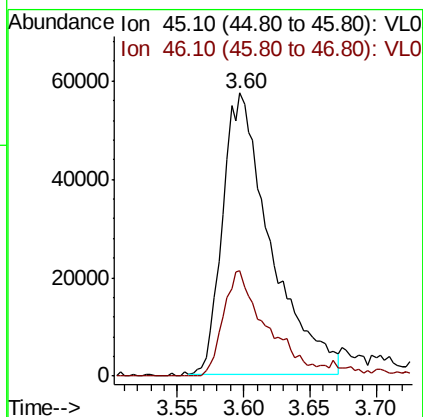
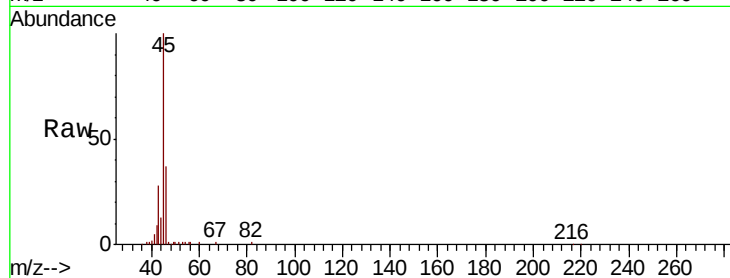
57 54.4 41.4 62.2





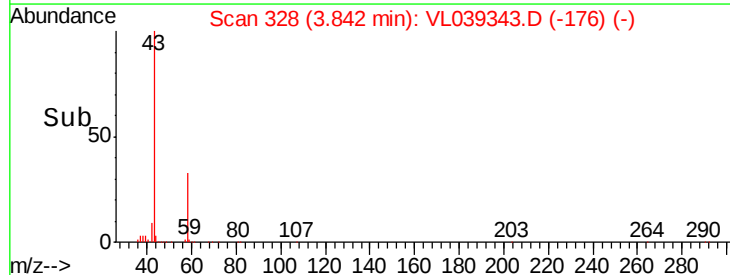
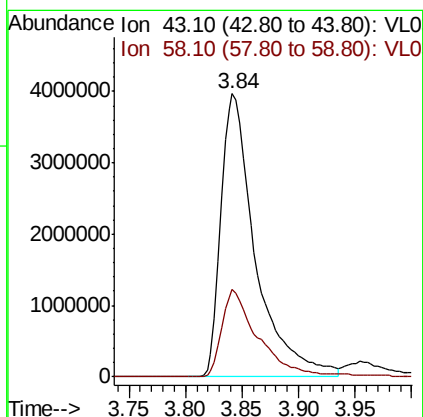
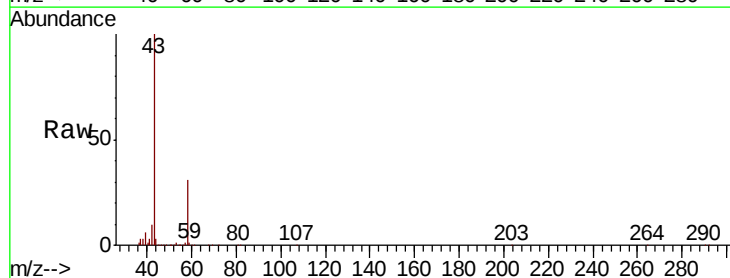
#13
Ethanol
Concen: 38.124 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-5-20220622
Acq: 24 Jun 2022 16:21

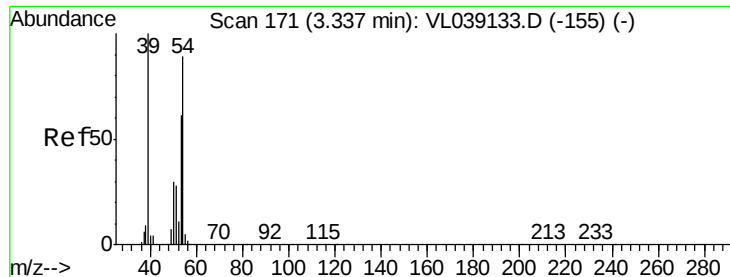
Tot Ion: 45 Resp: 144410
Ion Ratio Lower Upper
45 100
46 38.3 0.0 0.0#



#15
Acetone
Concen: 64.865 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL039343.D
Acq: 24 Jun 2022 16:21

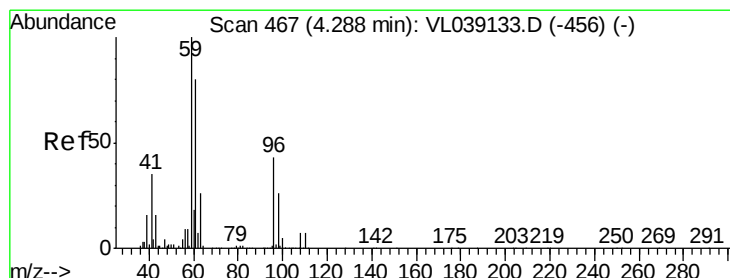
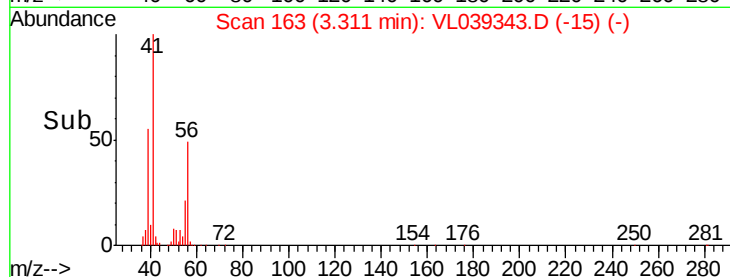
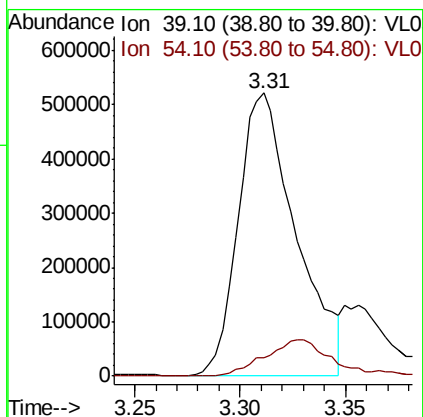
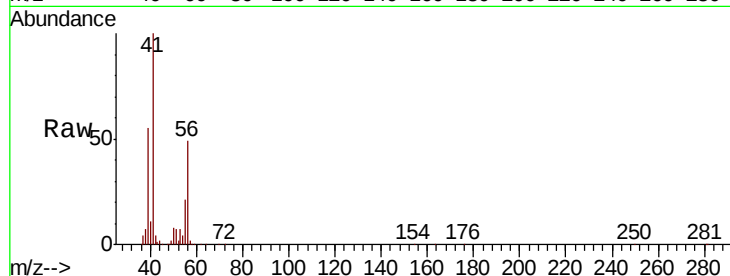
Tgt Ion: 43 Resp: 8459174
Ion Ratio Lower Upper
43 100
58 33.8 22.5 33.7#





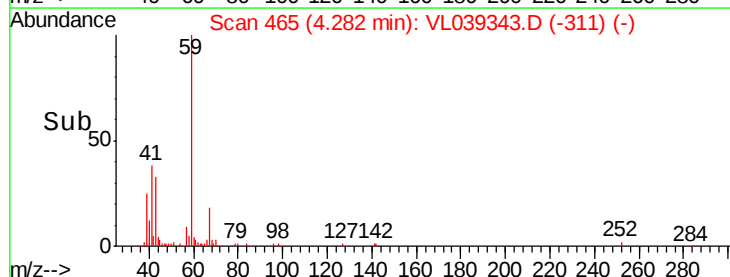
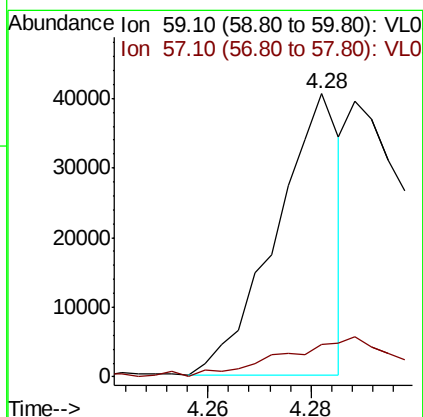
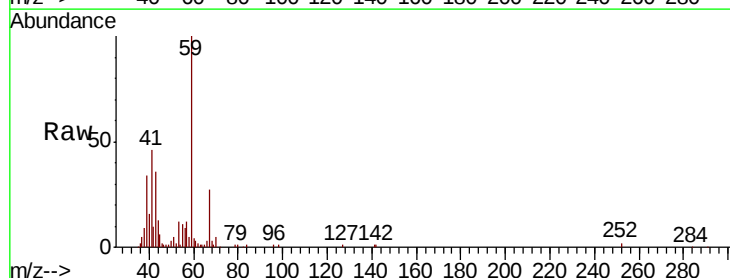
#16
 1,3-Butadiene
 Concen: 14.068 ppbv
 RT: 3.31
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 SV-5-20220622
 Acq: 24 Jun 2022 16:21

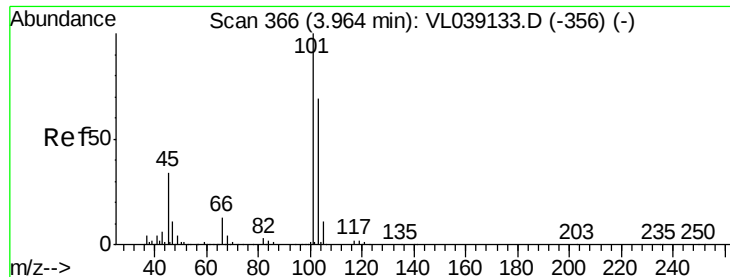
Tot Ion: 39 Resp: 986258
 Ion Ratio Lower Upper
 39 100
 54 15.3 65.8 98.6#



#17
 tert-Butyl alcohol
 Concen: 0.342 ppbv
 RT: 4.28 min Scan# 465
 Delta R.T. -0.01 min
 Lab File: VL039343.D
 Acq: 24 Jun 2022 16:21

Tgt Ion: 59 Resp: 34622
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.1 13.7#





#19

Isopropyl Alcohol

Concen: 20.747 ppbv

RT: 3.96 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

SV-5-20220622

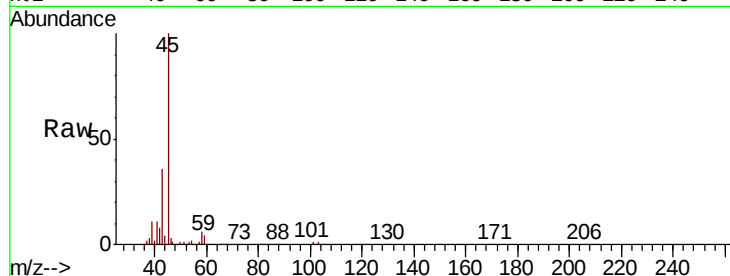
Acq: 24 Jun 2022 16:21

Tot Ion: 45 Resp: 1269014

Ion Ratio Lower Upper

45 100

58 224.7 1.8 2.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.96

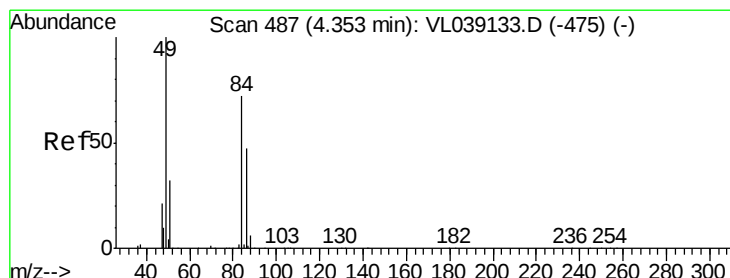
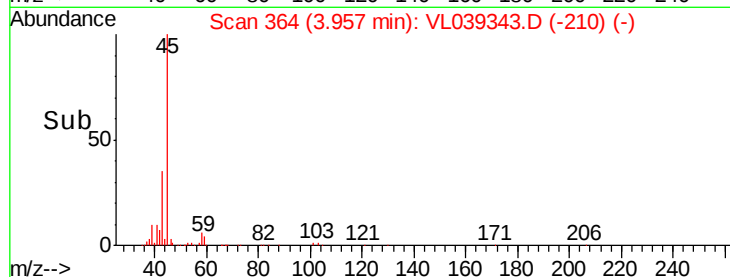
600000

400000

200000

0

Time-->



#20

Methylene Chloride

Concen: 3.191 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.01 min

Lab File: VL039343.D

Acq: 24 Jun 2022 16:21

Tgt Ion: 84 Resp: 175358

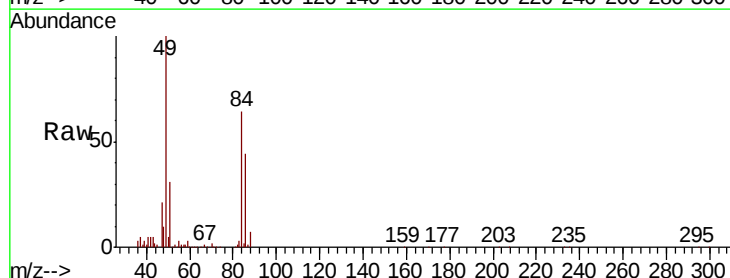
Ion Ratio Lower Upper

84 100

49 155.2 111.1 166.7

51 45.1 35.3 52.9

86 68.7 51.9 77.9



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

200000

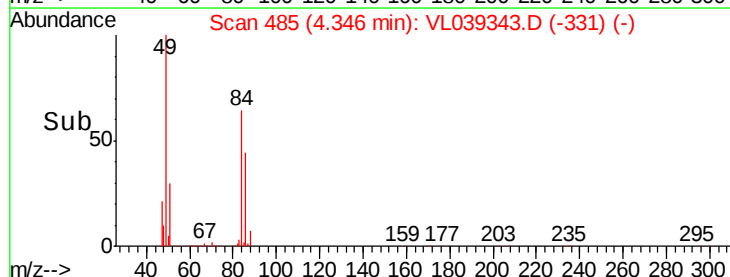
150000

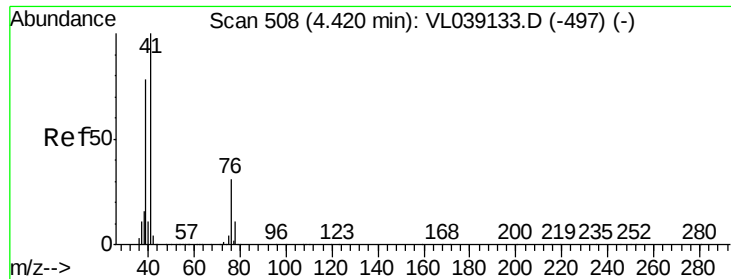
100000

50000

0

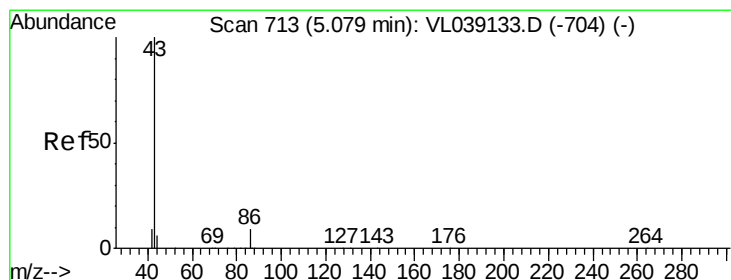
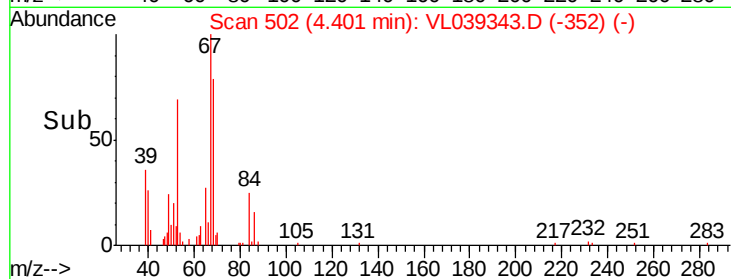
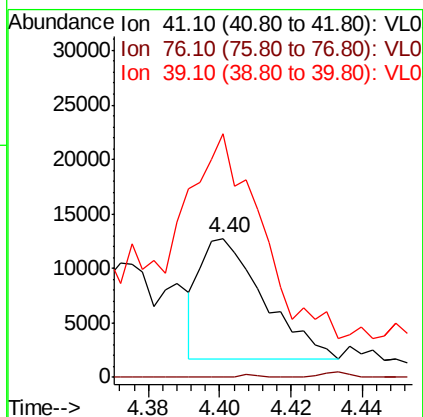
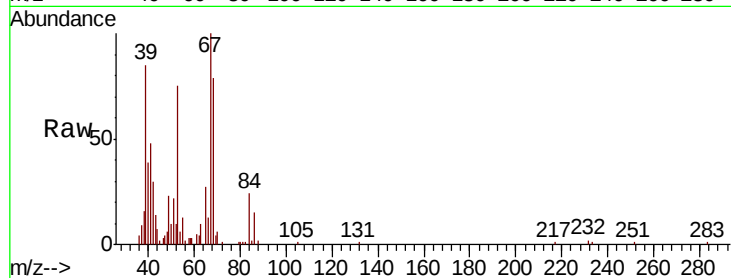
Time-->





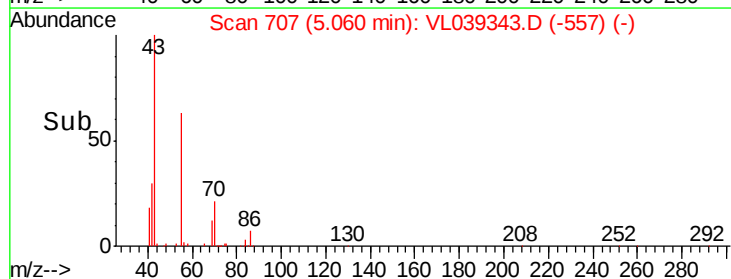
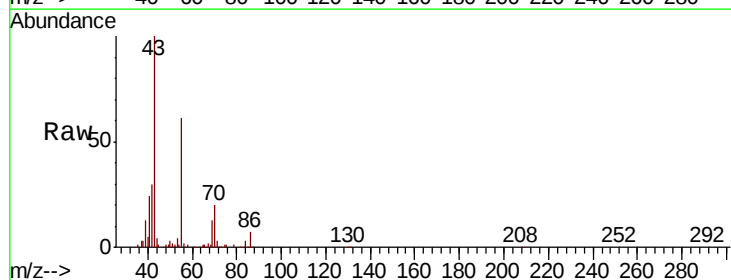
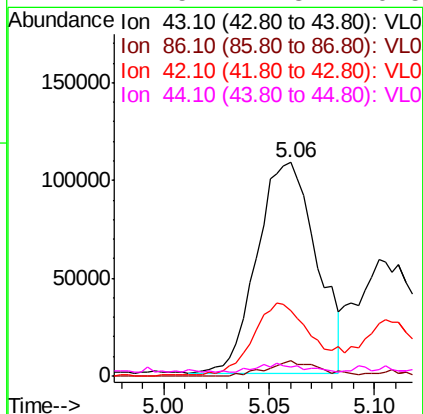
#21
Allvl Chloride
Concen: 0.156 ppbv
RT: 4.40
Delta R.T. MSVOA_L
Lab File: ClientSampleId : SV-5-20220622
Acq: 24 Jun 2022 16:21

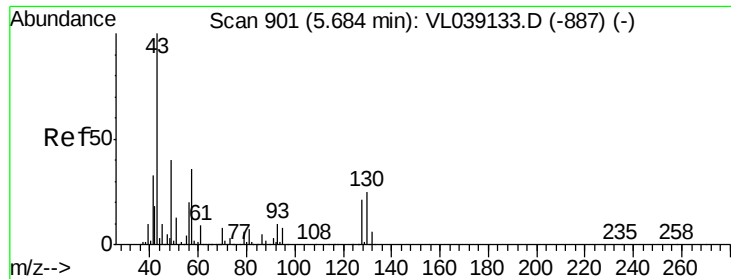
Tot Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.2	36.2#
39	444.7	62.2	93.2#



#23
Vinyl Acetate
Concen: 1.963 ppbv
RT: 5.06 min Scan# 707
Delta R.T. -0.02 min
Lab File: VL039343.D
Acq: 24 Jun 2022 16:21

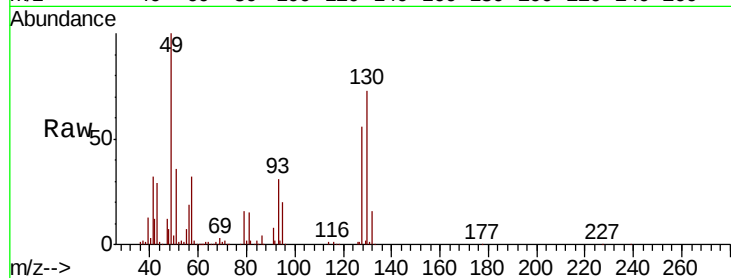
Tgt Ion	Ratio	Lower	Upper
43	100		
86	7.2	6.0	9.0
42	30.1	8.2	12.4#
44	2.5	4.3	6.5#



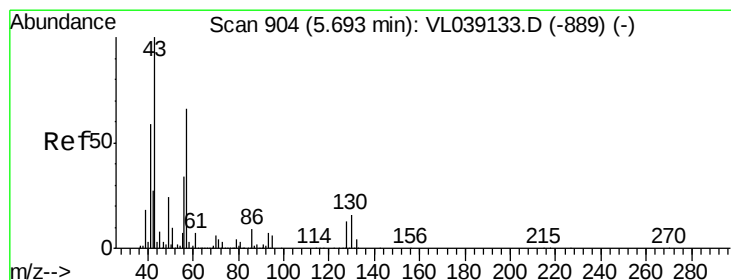
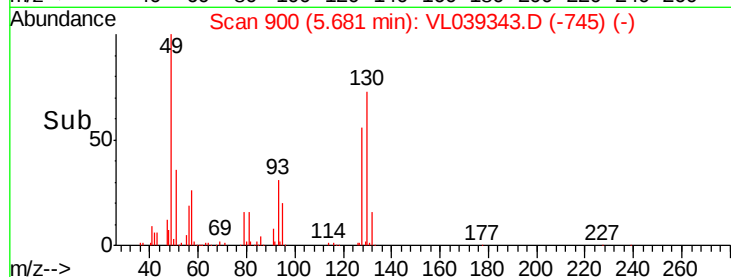
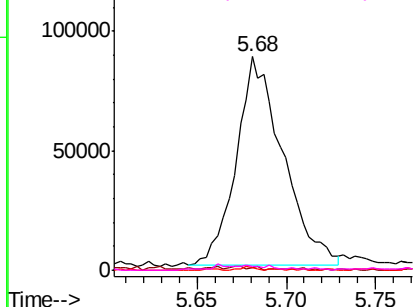


#25
Ethyl Acetate
Concen: 0.545 ppbv
RT: 5.68 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-5-20220622
Acq: 24 Jun 2022 16:21

Tot Ion:	43	Resp:	160291
Ion	Ratio	Lower	Upper
43	100		
45	1.4	8.2	12.2#
61	1.1	8.4	12.6#
70	2.9	5.6	8.4#

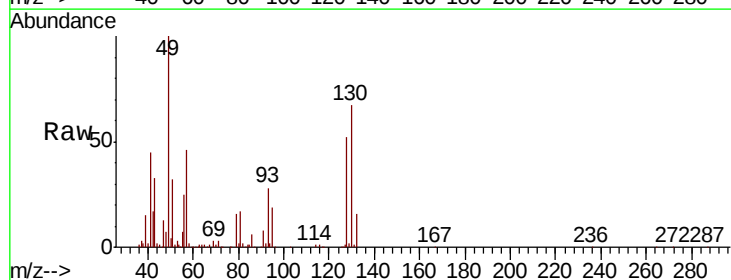


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

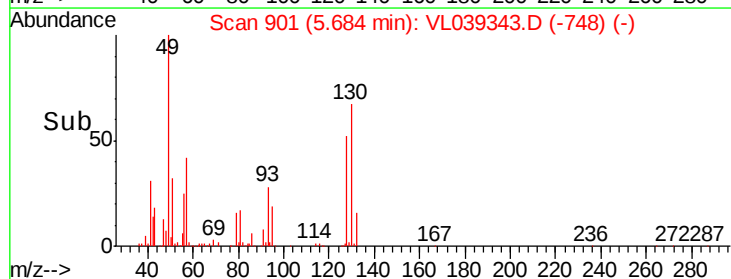
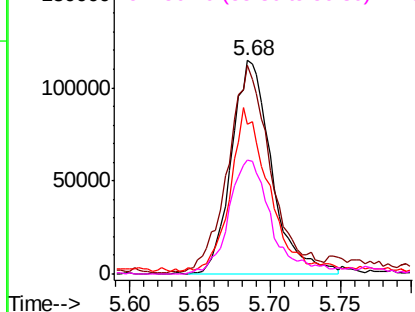


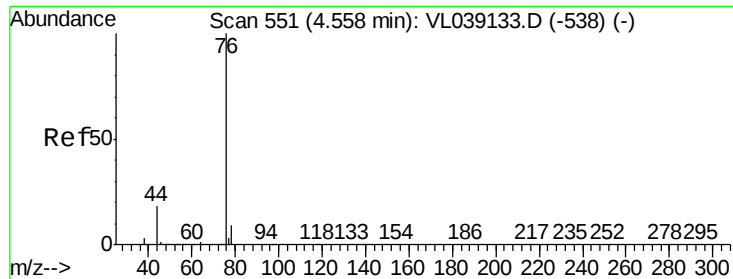
#26
Hexane
Concen: 1.765 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL039343.D
Acq: 24 Jun 2022 16:21

Tgt Ion:	57	Resp:	228000
Ion	Ratio	Lower	Upper
57	100		
41	111.9	72.4	108.6#
43	77.4	187.0	280.6#
56	59.4	41.8	62.6



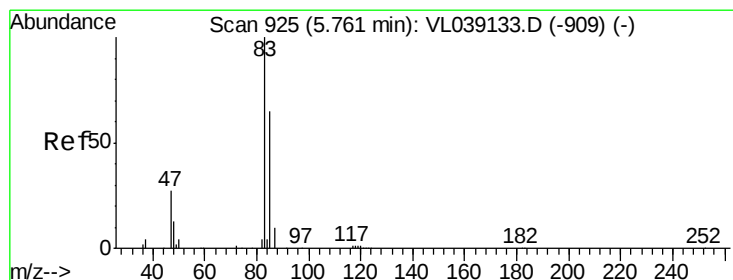
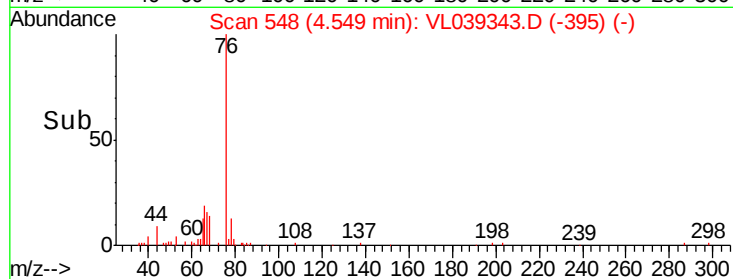
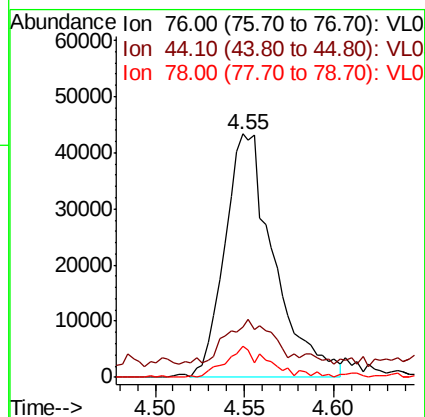
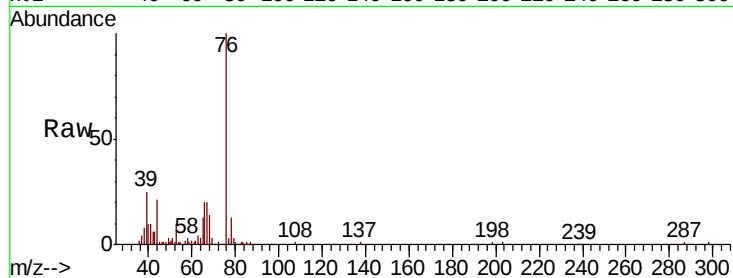
Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





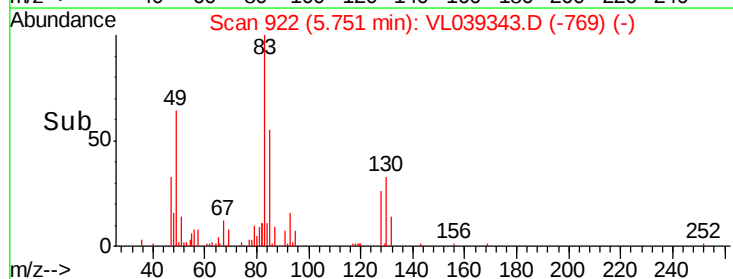
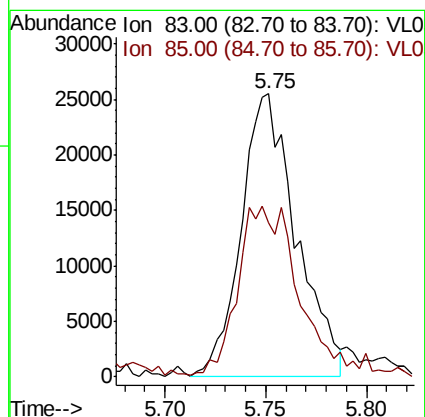
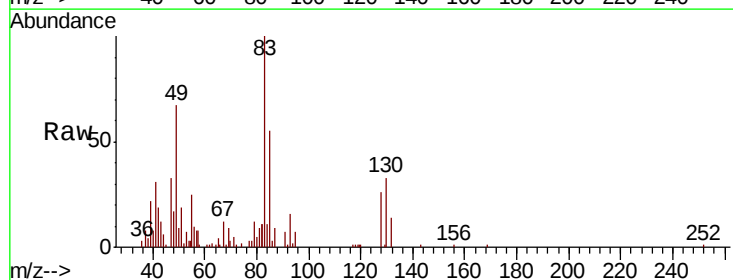
#27
Carbon Disulfide
Concen: 0.614 ppbv
RT: 4.55
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-5-20220622
Acq: 24 Jun 2022 16:21

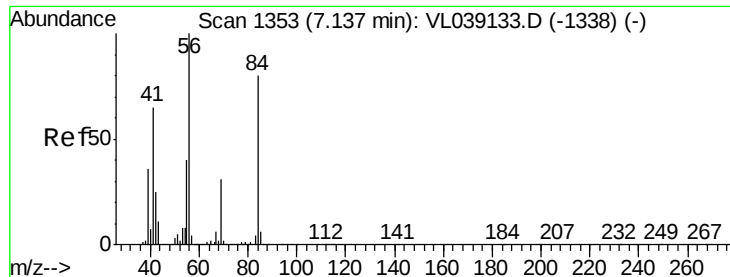
Tot Ion: 76 Resp: 82229
Ion Ratio Lower Upper
76 100
44 25.7 14.4 21.6#
78 13.1 7.7 11.5#



#29
Chloroform
Concen: 0.224 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.01 min
Lab File: VL039343.D
Acq: 24 Jun 2022 16:21

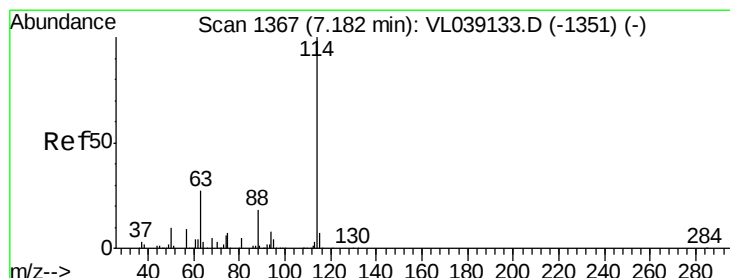
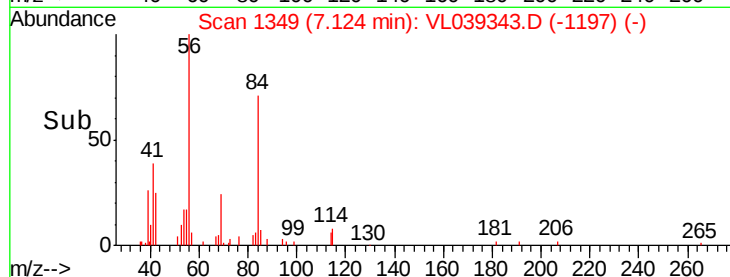
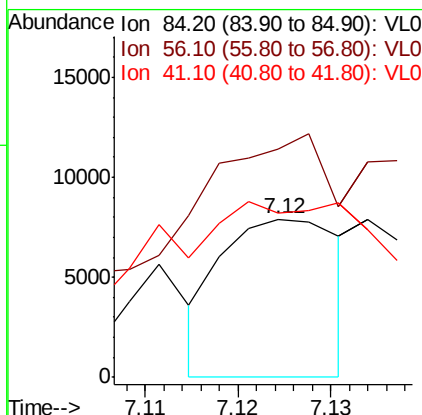
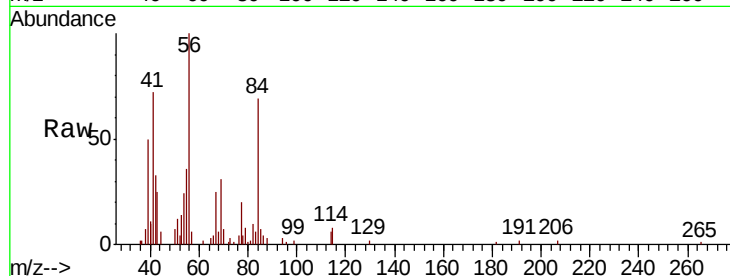
Tgt Ion: 83 Resp: 48640
Ion Ratio Lower Upper
83 100
85 53.7 52.4 78.6





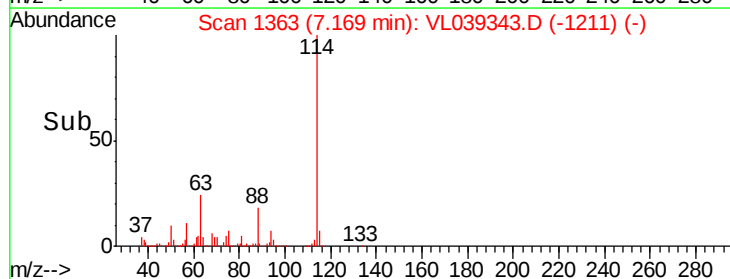
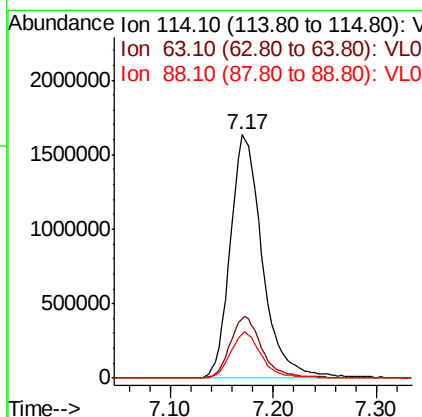
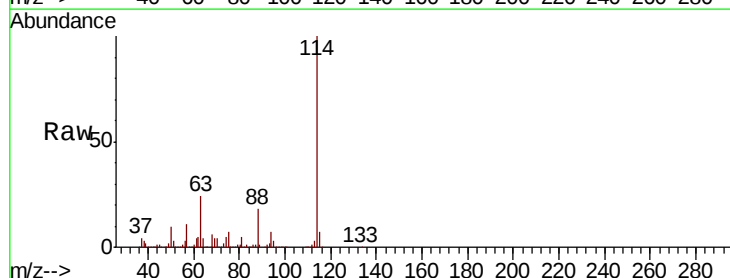
#30
Cvclohexane
Concen: 0.064 ppbv
RT: 7.12 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : SV-5-20220622
Acq: 24 Jun 2022 16:21

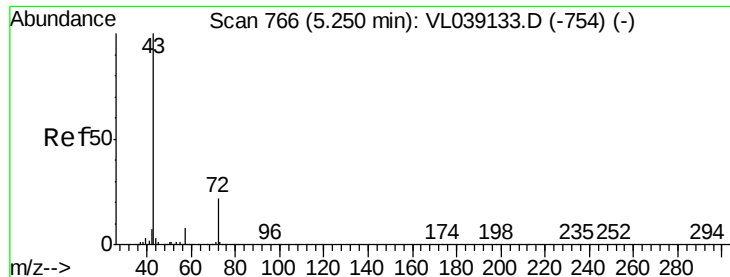
Tot Ion: 84 Resp: 6972
Ion Ratio Lower Upper
84 100
56 0.0 110.6 165.8#
41 276.8 68.9 103.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T.: -0.01 min
Lab File: VL039343.D
Acq: 24 Jun 2022 16:21

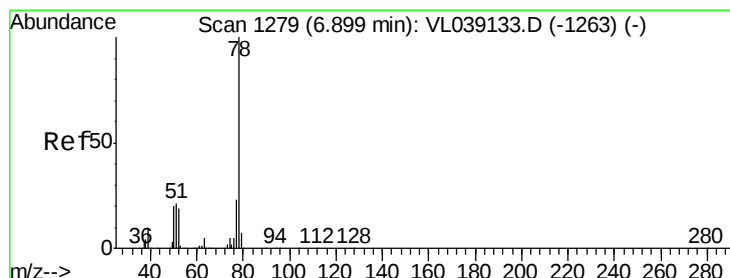
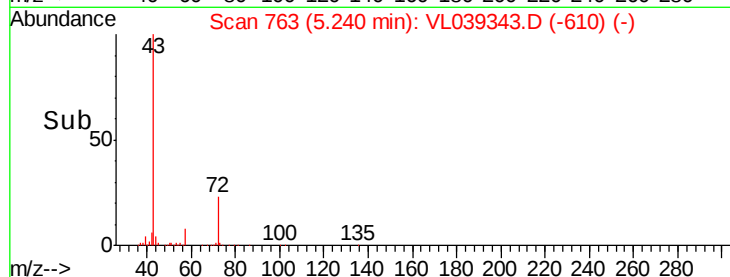
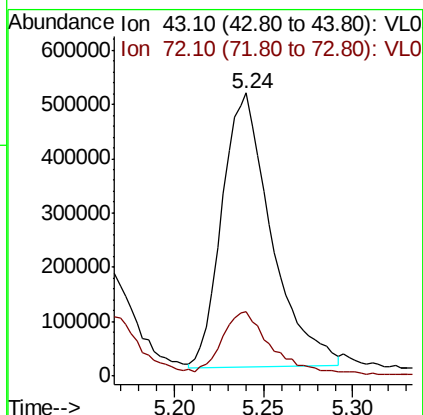
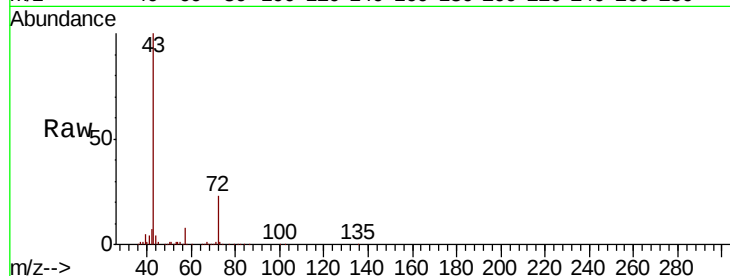
Tgt Ion: 114 Resp: 3536721
Ion Ratio Lower Upper
114 100
63 25.2 21.7 32.5
88 18.6 14.8 22.2





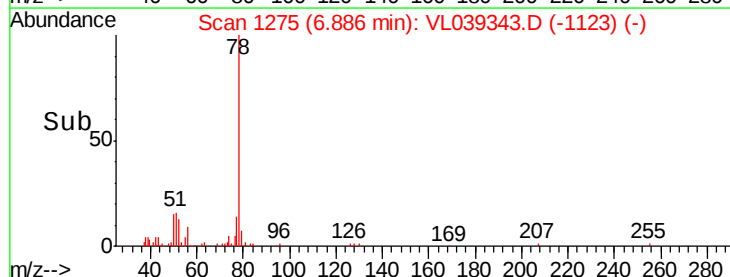
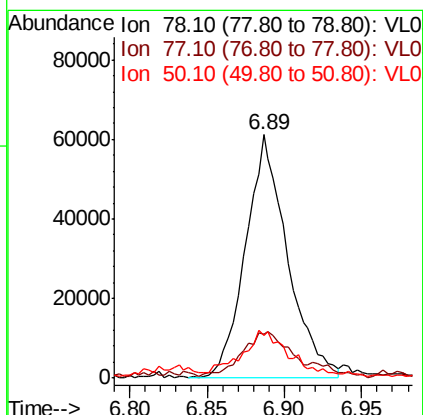
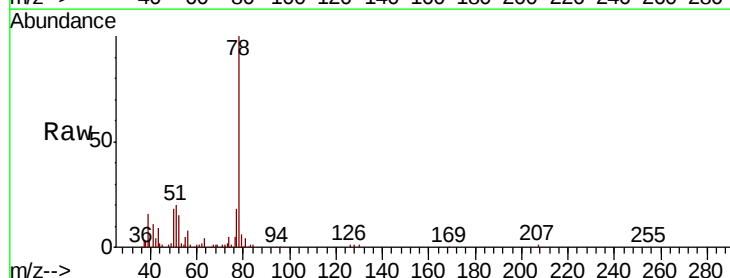
#34
2-Butanone
Concen: 5.064 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-5-20220622
Acq: 24 Jun 2022 16:21

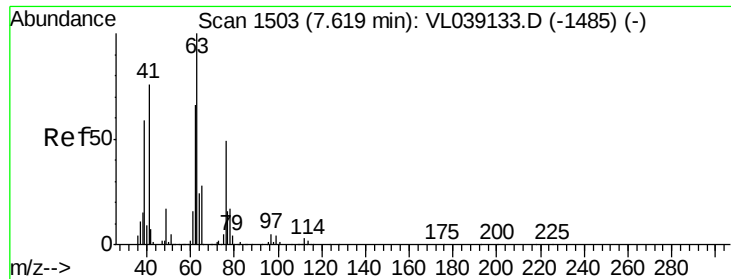
Tot Ion: 43 Resp: 973047
Ion Ratio Lower Upper
43 100
72 26.0 18.2 27.2



#36
Benzene
Concen: 0.403 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL039343.D
Acq: 24 Jun 2022 16:21

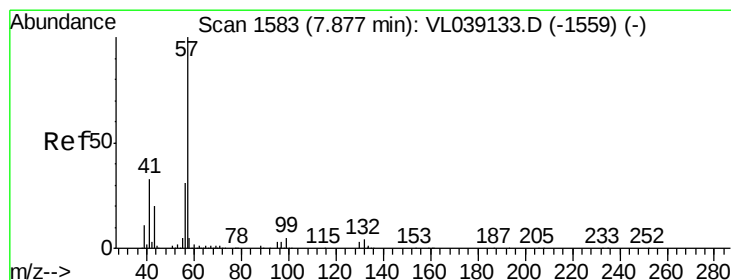
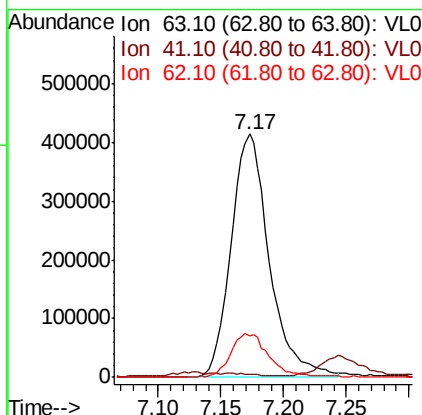
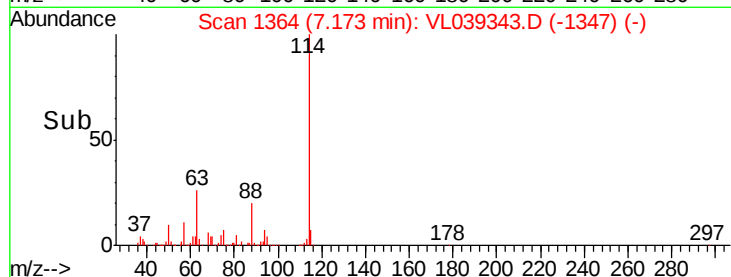
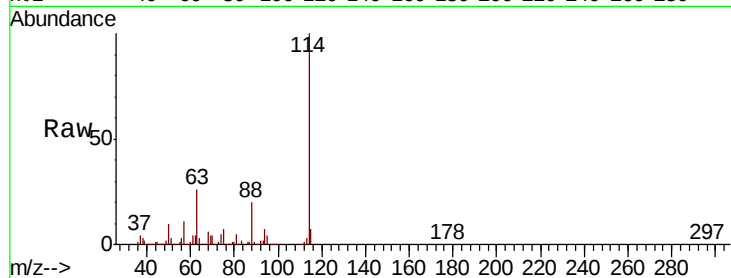
Tgt Ion: 78 Resp: 115829
Ion Ratio Lower Upper
78 100
77 16.4 18.6 27.8#
50 16.4 15.8 23.8





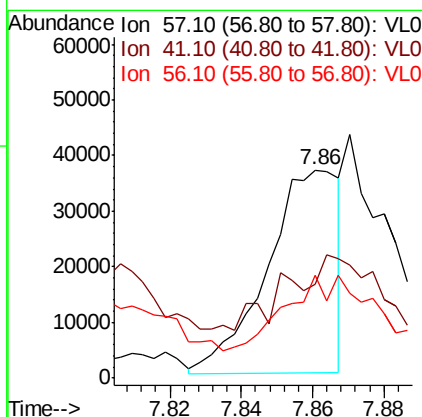
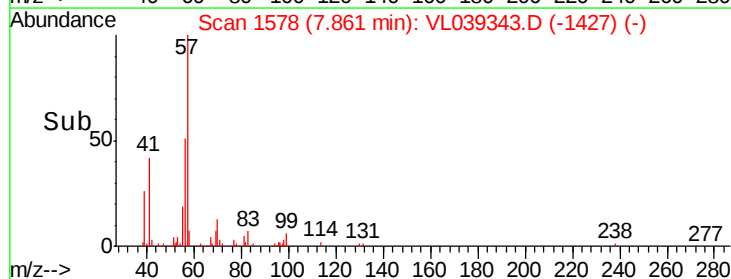
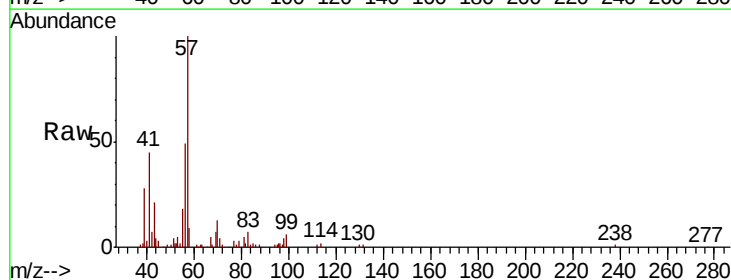
#39
 1,2-Dichloropropane
 Concen: 7.689 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-5-20220622
 Acq: 24 Jun 2022 16:21

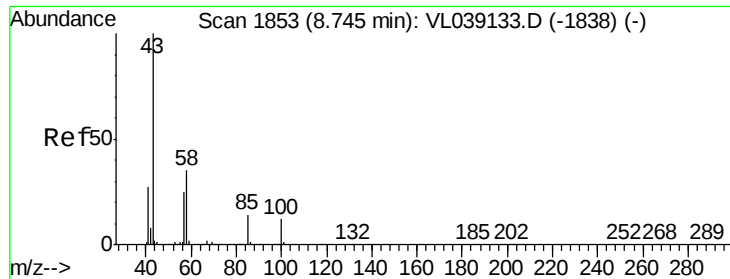
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	16.8	52.9	79.3#



#44
 2,2,4-Trimethylpentane
 Concen: 0.102 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. -0.02 min
 Lab File: VL039343.D
 Acq: 24 Jun 2022 16:21

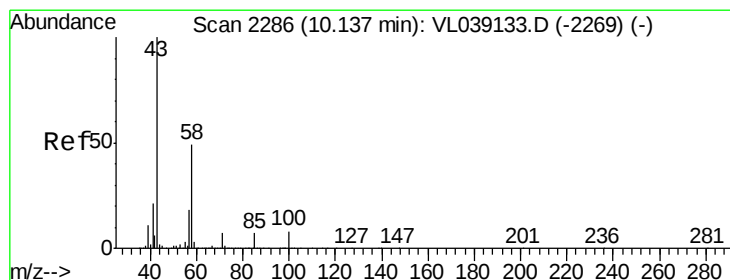
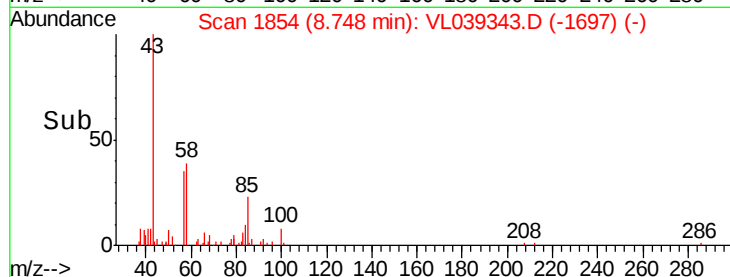
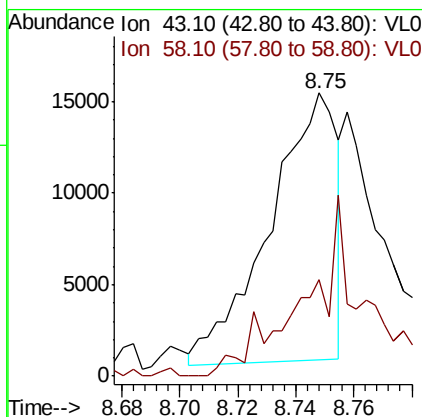
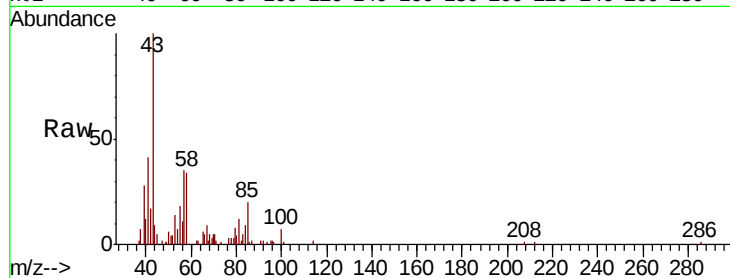
Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	26.2	39.4#
56	0.0	24.7	37.1#





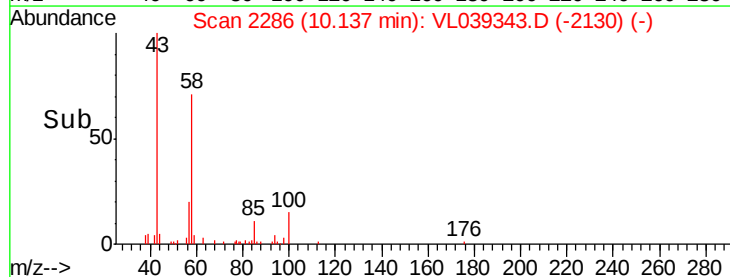
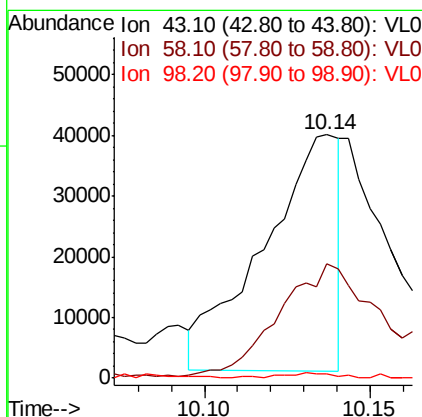
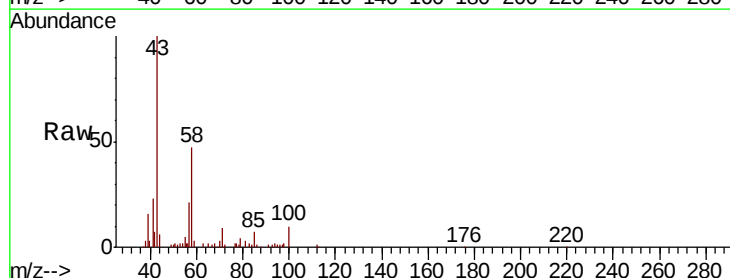
#50
 4-Methyl-2-Pentanone
 Concen: 0.082 ppbv
 RT: 8.75
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 SV-5-20220622
 Acq: 24 Jun 2022 16:21

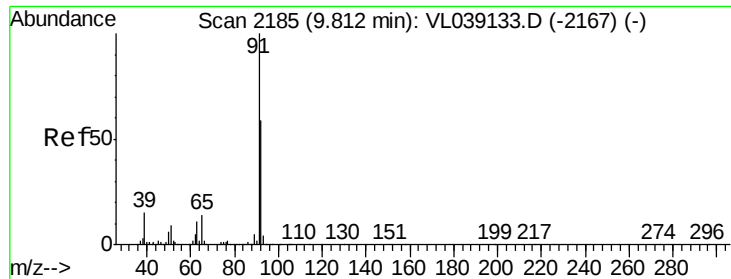
Tot Ion: 43 Resp: 23534
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.7 43.1#



#51
 2-Hexanone
 Concen: 0.278 ppbv
 RT: 10.14 min Scan# 2286
 Delta R.T. 0.00 min
 Lab File: VL039343.D
 Acq: 24 Jun 2022 16:21

Tgt Ion: 43 Resp: 62317
 Ion Ratio Lower Upper
 43 100
 58 75.1 40.0 60.0#
 98 1.8 0.1 0.1#





#53

Toluene

Concen: 0.156 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

SV-5-20220622

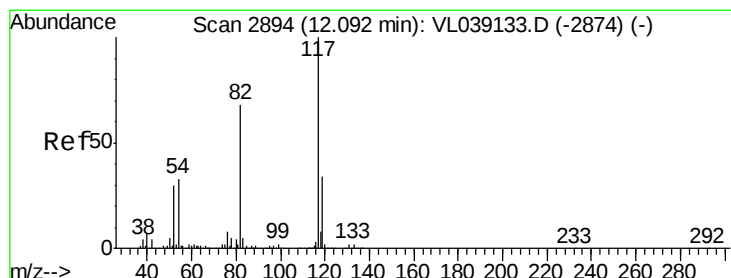
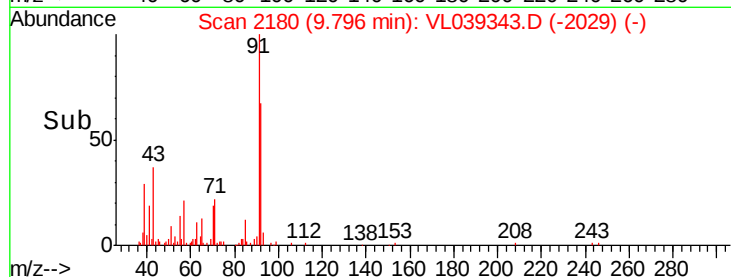
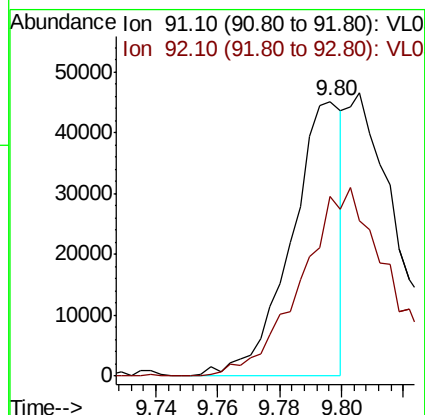
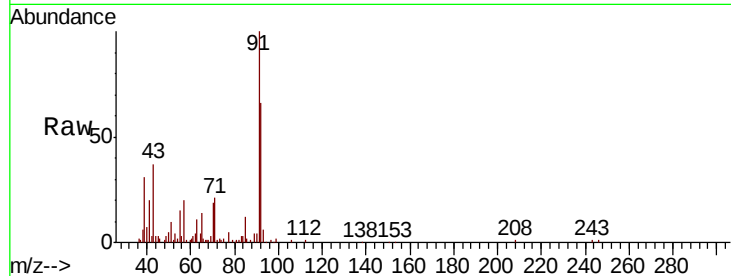
Acq: 24 Jun 2022 16:21

Tot Ion: 91 Resp: 51441

Ion Ratio Lower Upper

91 100

92 0.0 48.1 72.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL039343.D

Acq: 24 Jun 2022 16:21

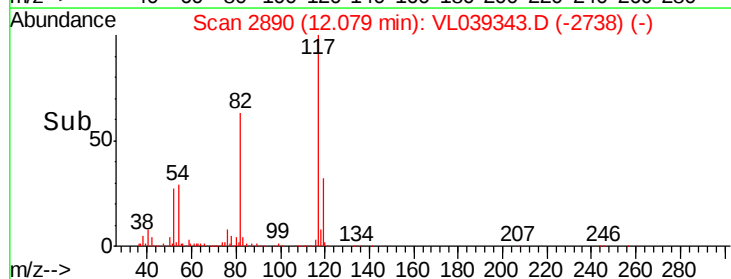
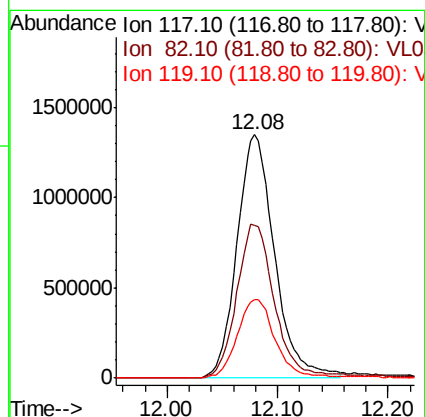
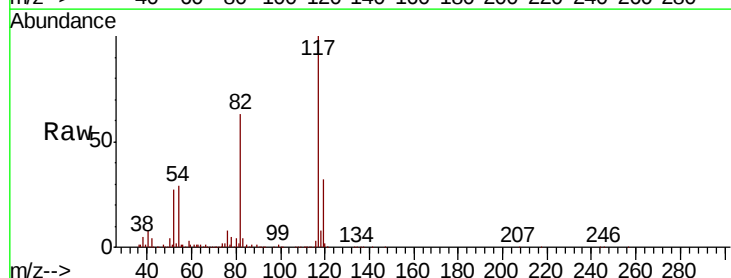
Tgt Ion: 117 Resp: 3185768

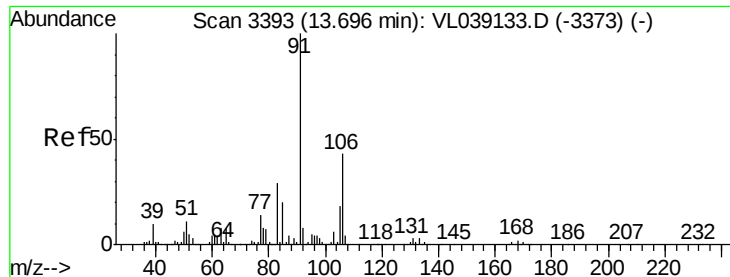
Ion Ratio Lower Upper

117 100

82 66.1 55.1 82.7

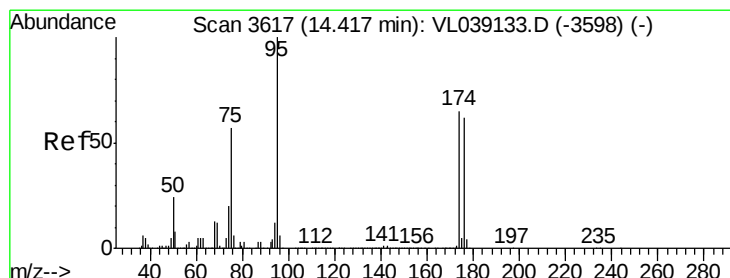
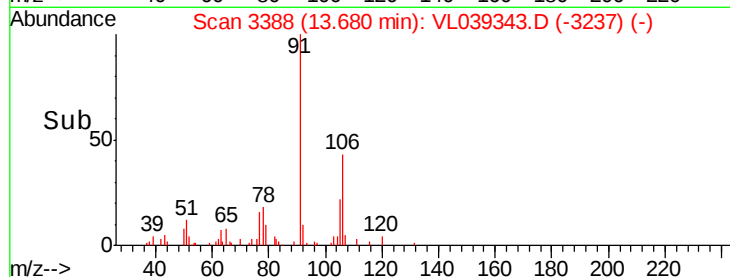
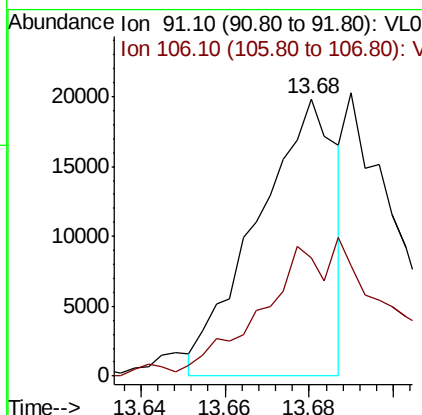
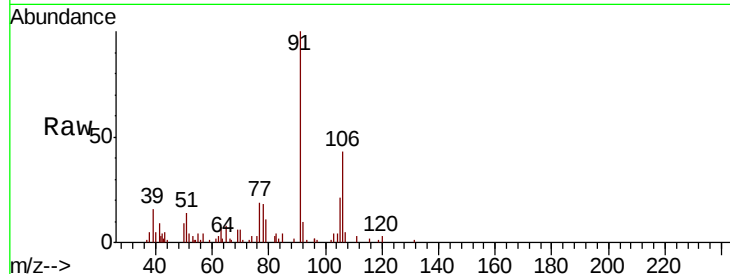
119 33.8 24.7 37.1





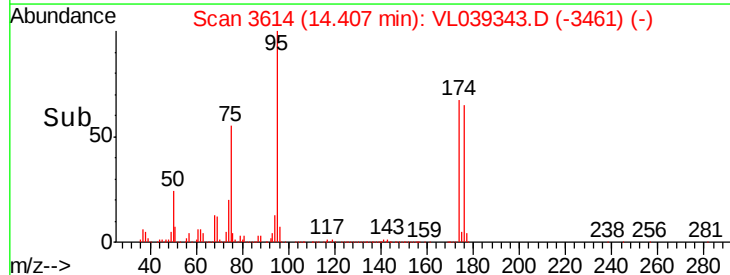
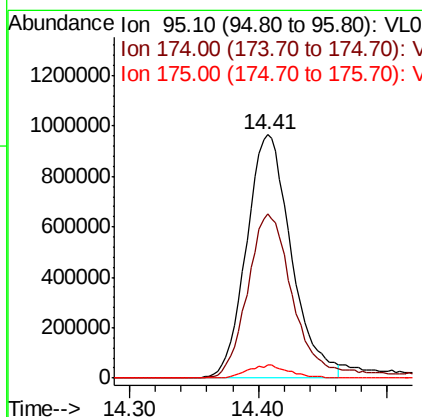
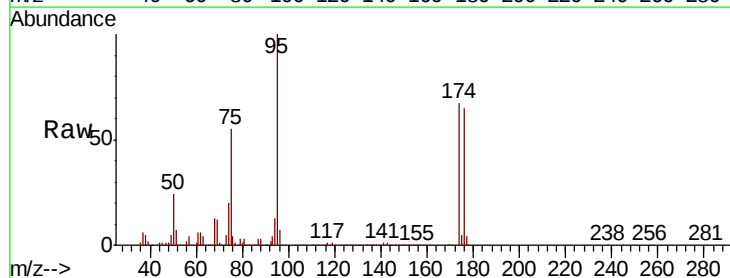
#60
o-Xylene
Concen: 0.071 ppbv
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-5-20220622
Acq: 24 Jun 2022 16:21

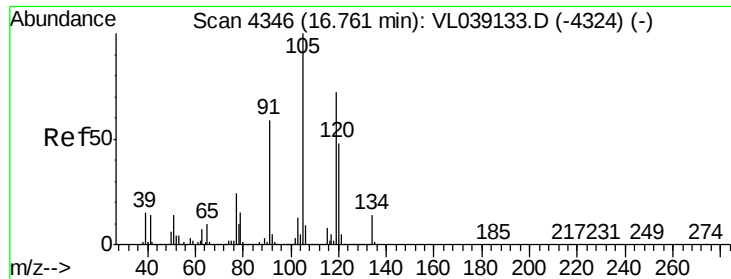
Tot Ion: 91 Resp: 25723
Ion Ratio Lower Upper
91 100
106 0.0 22.3 66.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 8.881 ppbv
RT: 14.41 min Scan# 3614
Delta R.T. -0.01 min
Lab File: VL039343.D
Acq: 24 Jun 2022 16:21

Tgt Ion: 95 Resp: 2339148
Ion Ratio Lower Upper
95 100
174 72.4 53.8 80.8
175 5.2 4.1 6.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.082 ppbv
 RT: 16.75
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 SV-5-20220622
 Acq: 24 Jun 2022 16.21

Tot Ion:	105	Resp:	35321
Ion	Ratio	Lower	Upper
105	100		
120	36.3	38.1	57.1#
91	11.6	47.4	71.0#
77	9.5	19.5	29.3#

