

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061422\
 Data File : VL039286.D
 Acq On : 14 Jun 2022 18:44
 Operator : SY/AP
 Sample : N3306-02 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

Quant Time: Jun 15 03:18:37 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	5.67	49	1290076	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3557953	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3189091	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2466901	9.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.60%

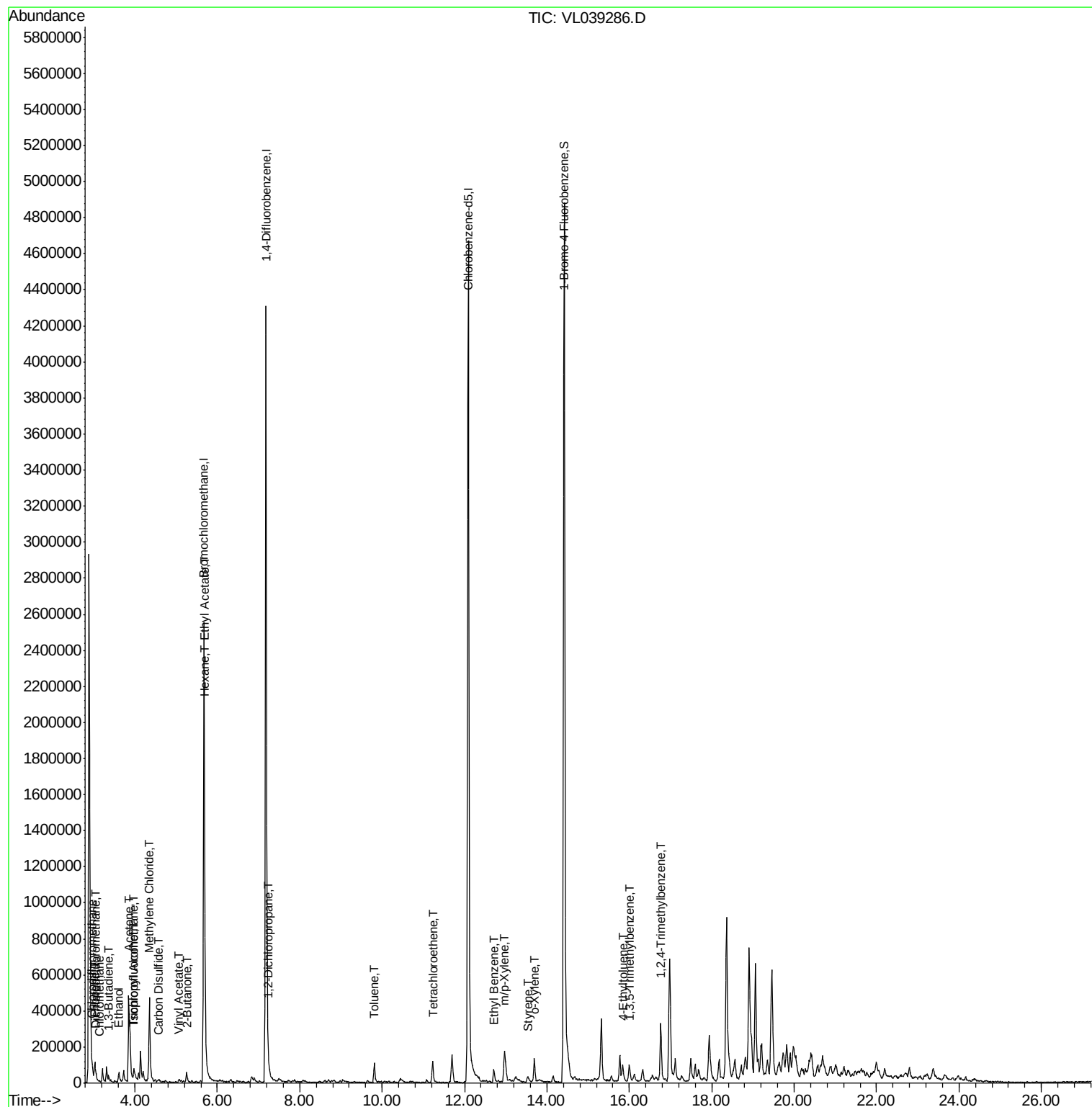
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	18291	0.081 ppbv	94
3) Chlorodifluoromethane	2.97	51	32707	0.199 ppbv #	70
4) Chloromethane	3.15	50	3707	0.044 ppbv	93
9) Propene	3.02	41	39552	0.553 ppbv	84
11) Trichlorofluoromethane	3.96	101	6269	0.031 ppbv	96
13) Ethanol	3.61	45	40506	10.377 ppbv #	100
15) Acetone	3.85	43	680663	5.065 ppbv	93
16) 1,3-Butadiene	3.36	39	2856	0.040 ppbv #	1
19) Isopropyl Alcohol	3.98	45	72342	1.148 ppbv #	93
20) Methylene Chloride	4.35	84	189921	3.354 ppbv	90
23) Vinyl Acetate	5.07	43	6543	0.059 ppbv #	80
25) Ethyl Acetate	5.69	43	90257	0.298 ppbv #	78
26) Hexane	5.69	57	128538	0.966 ppbv #	37
27) Carbon Disulfide	4.56	76	4688	0.034 ppbv #	1
34) 2-Butanone	5.25	43	50420	0.261 ppbv #	53
39) 1,2-Dichloropropane	7.24	63	9870	0.086 ppbv #	21
52) Tetrachloroethene	11.23	164	21201	0.188 ppbv	93
53) Toluene	9.81	91	36093	0.109 ppbv #	21
58) Ethyl Benzene	12.71	91	24066	0.055 ppbv	99
59) m/p-Xylene	12.97	91	177493	0.459 ppbv	92
60) o-Xylene	13.70	91	97069	0.267 ppbv	98
61) Styrene	13.54	104	7286	0.037 ppbv #	25
72) 4-Ethyltoluene	15.83	105	22002	0.052 ppbv #	55
73) 1,3,5-Trimethylbenzene	16.00	105	63666	0.166 ppbv	98
74) 1,2,4-Trimethylbenzene	16.76	105	245268	0.572 ppbv #	63

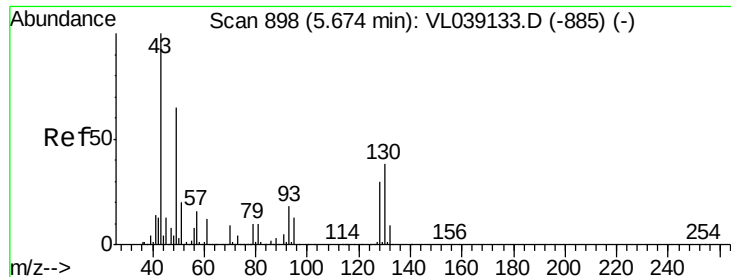
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061422\
Data File : VL039286.D
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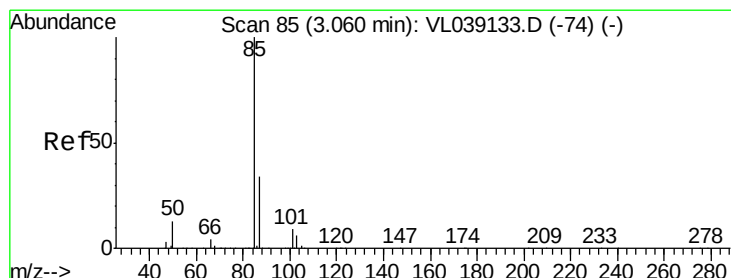
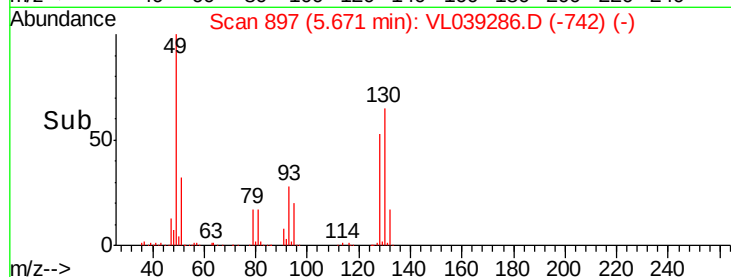
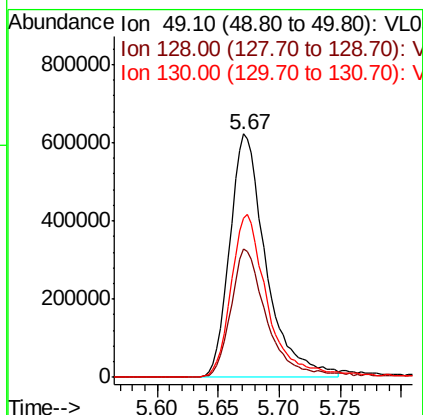
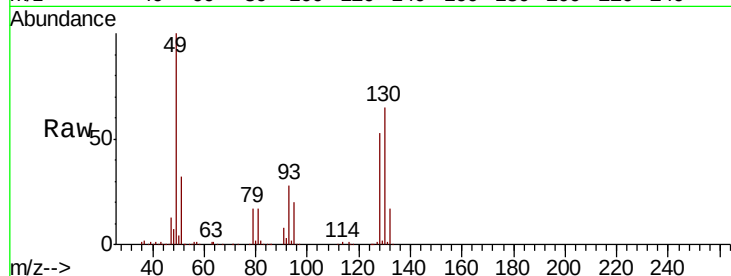
Quant Time: Jun 15 03:18:37 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 01 01:22:18 2022
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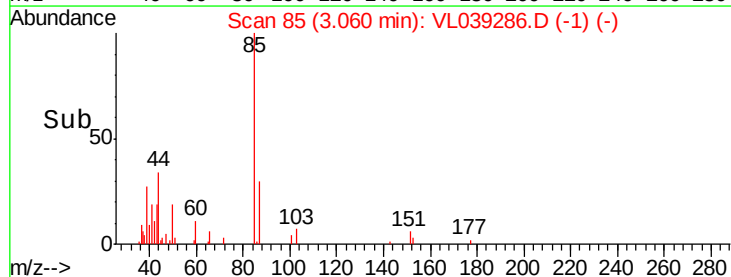
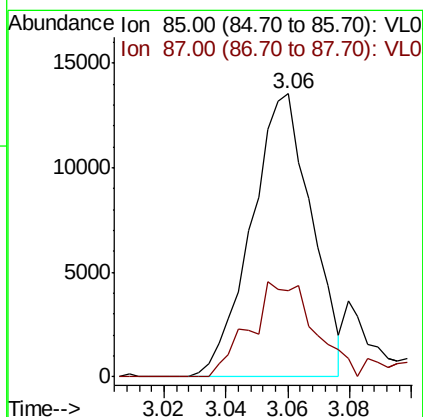
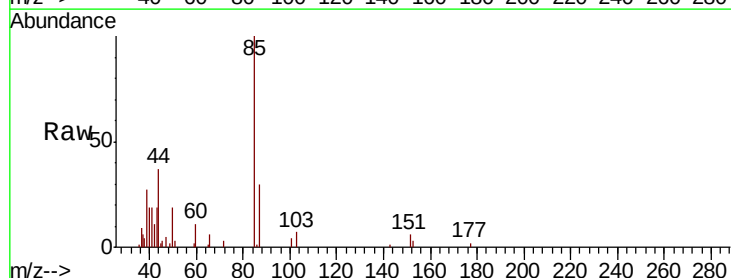
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Jun 2022 18:44

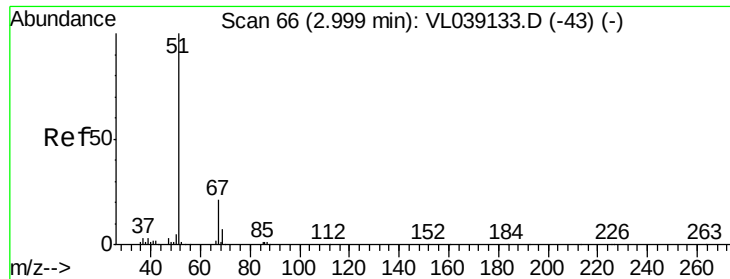
Tot Ion: 49 Resp: 1290076
 Ion Ratio Lower Upper
 49 100
 128 53.4 24.7 74.1
 130 69.4 31.4 94.0



#2
 Dichlorodifluoromethane
 Concen: 0.081 ppbv
 RT: 3.06 min Scan# 85
 Delta R.T. 0.00 min
 Lab File: VL039286.D
 Acq: 14 Jun 2022 18:44

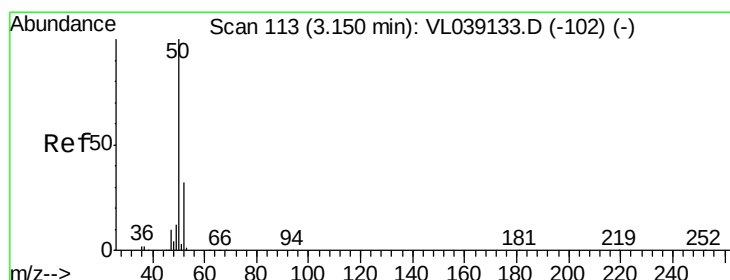
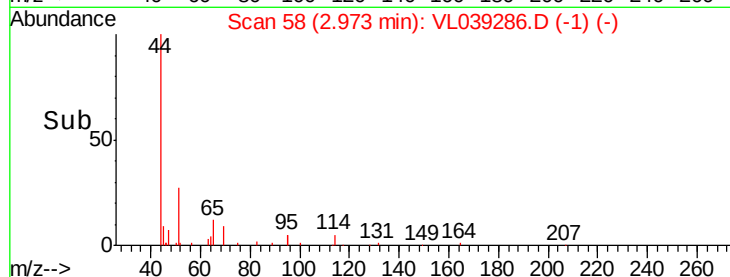
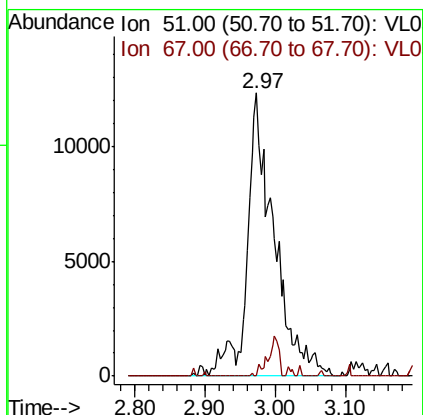
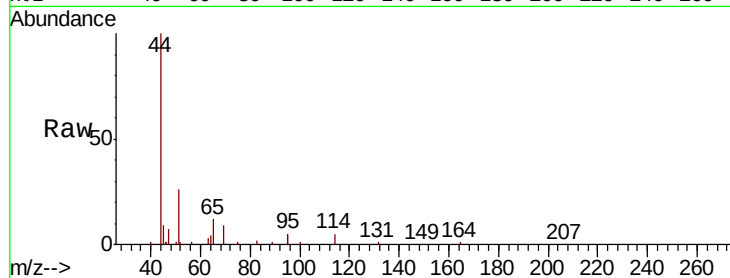
Tgt Ion: 85 Resp: 18291
 Ion Ratio Lower Upper
 85 100
 87 30.3 26.9 40.3





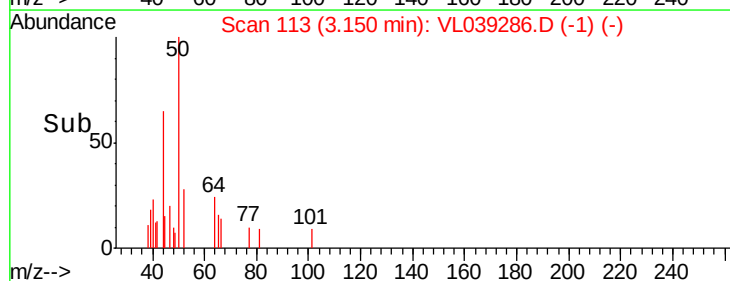
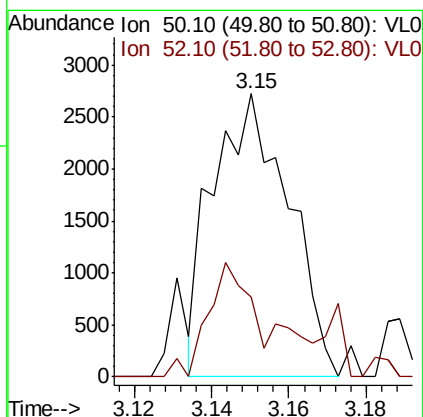
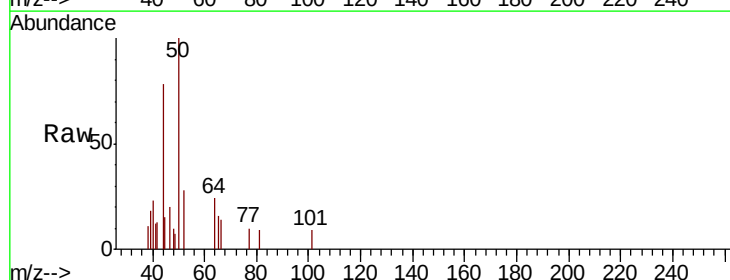
#3
 Chlorodifluoromethane
 Concen: 0.199 ppbv
 RT: 2.97
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SS-1DL
 Acq: 14 Jun 2022 18:44

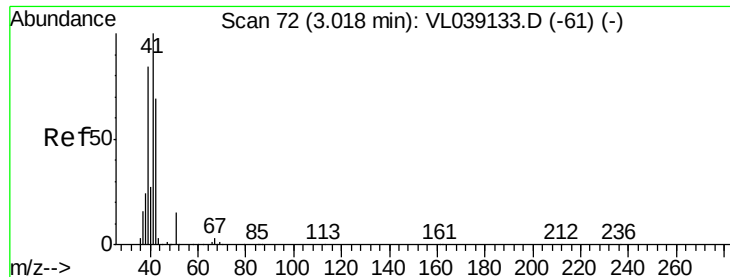
Tot Ion: 51 Resp: 32707
 Ion Ratio Lower Upper
 51 100
 67 6.4 16.2 24.4#



#4
 Chloromethane
 Concen: 0.044 ppbv
 RT: 3.15 min Scan# 113
 Delta R.T. 0.00 min
 Lab File: VL039286.D
 Acq: 14 Jun 2022 18:44

Tgt Ion: 50 Resp: 3707
 Ion Ratio Lower Upper
 50 100
 52 28.3 25.9 38.9





#9

Propene

Concen: 0.553 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

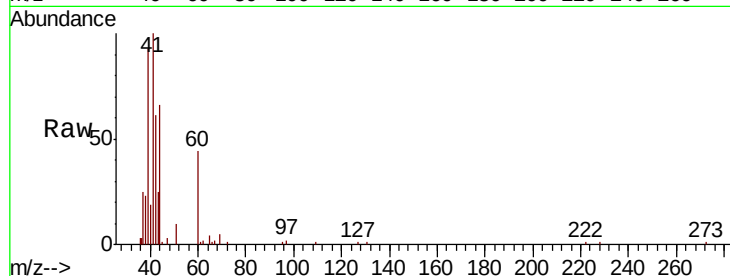
Acq: 14 Jun 2022 18:44 SS-1DL

Tot Ion: 41 Resp: 39552

Ion Ratio Lower Upper

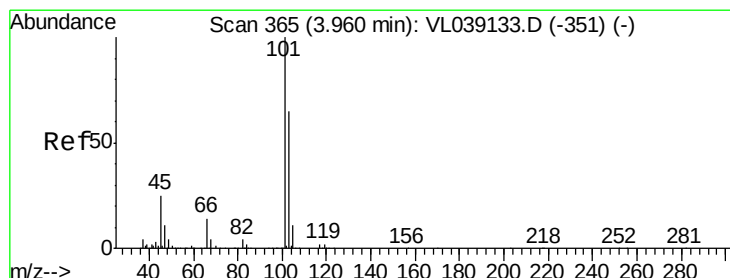
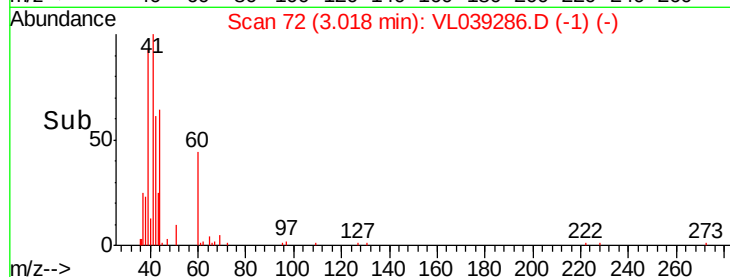
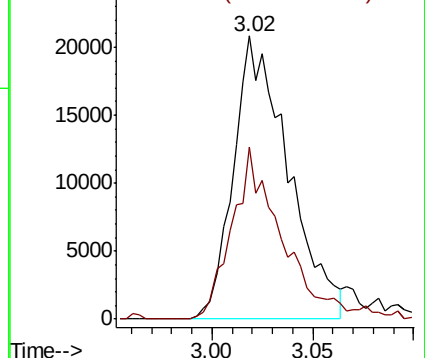
41 100

42 56.5 55.4 83.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.031 ppbv

RT: 3.96 min Scan# 364

Delta R.T. -0.00 min

Lab File: VL039286.D

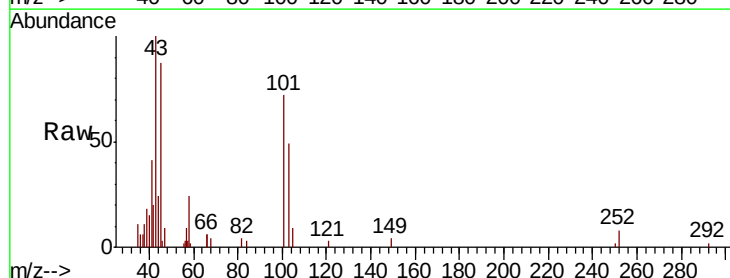
Acq: 14 Jun 2022 18:44

Tgt Ion: 101 Resp: 6269

Ion Ratio Lower Upper

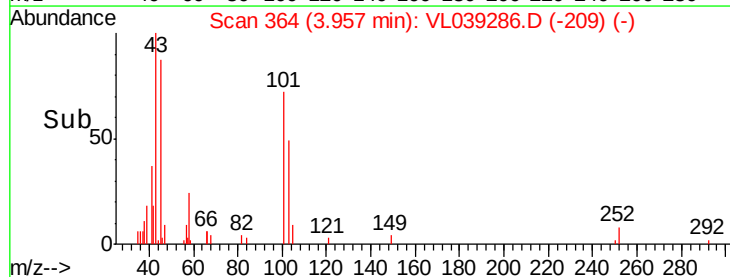
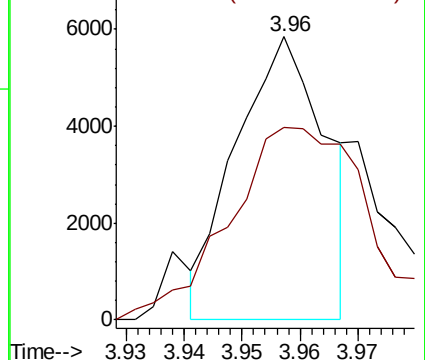
101 100

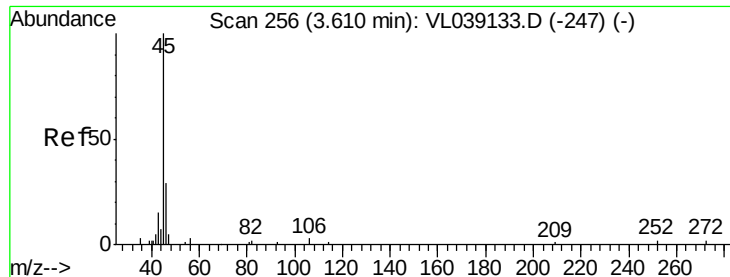
103 67.9 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

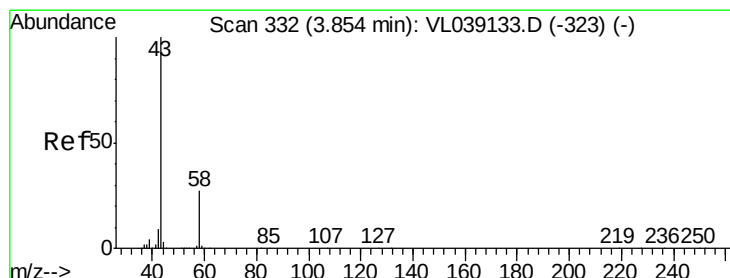
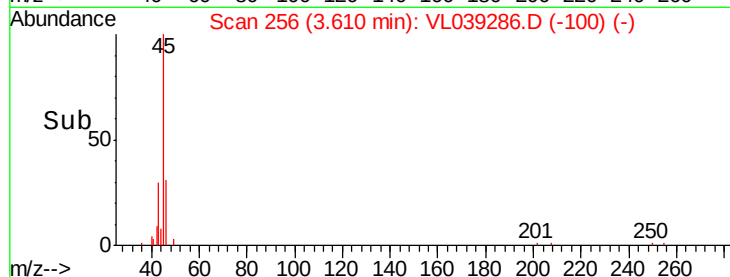
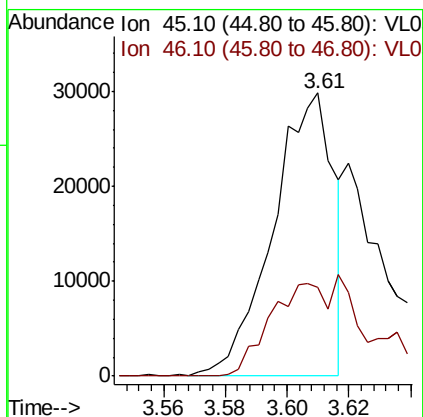
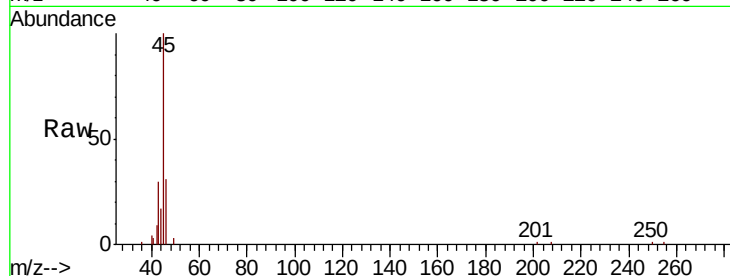
Ion 103.00 (102.70 to 103.70): V





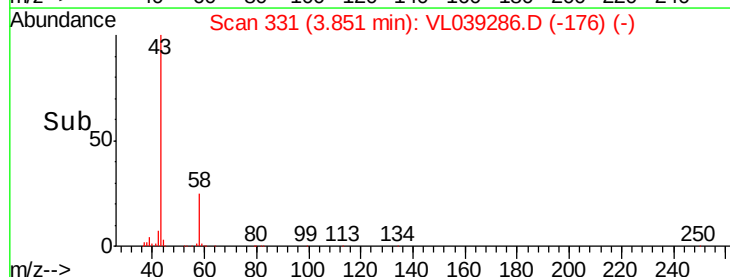
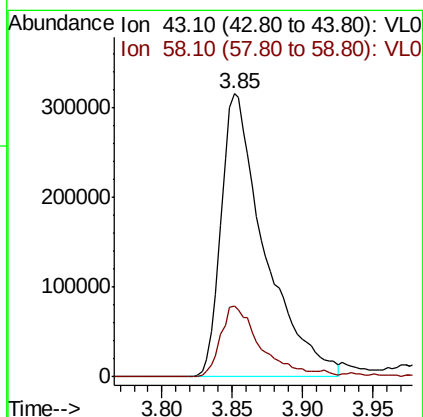
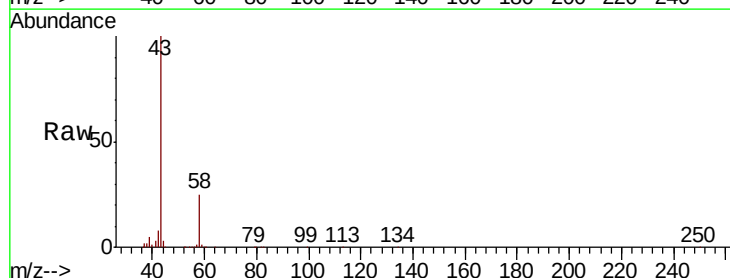
#13
Ethanol
Concen: 10.377 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 14 Jun 2022 18:44

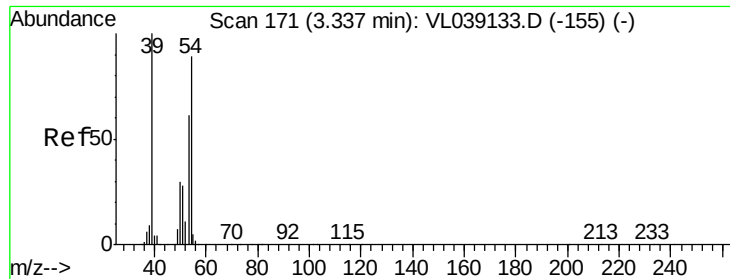
Tot Ion: 45 Resp: 40506
Ion Ratio Lower Upper
45 100
46 0.0 0.0 0.0



#15
Acetone
Concen: 5.065 ppbv
RT: 3.85 min Scan# 331
Delta R.T. -0.00 min
Lab File: VL039286.D
Acq: 14 Jun 2022 18:44

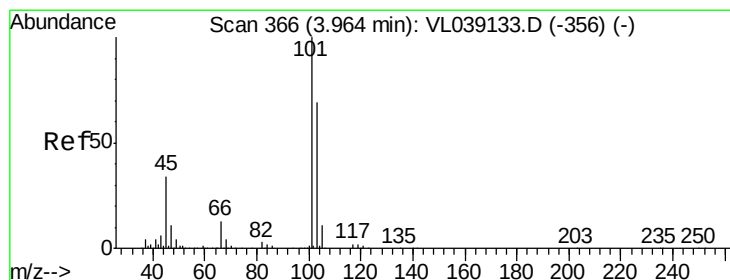
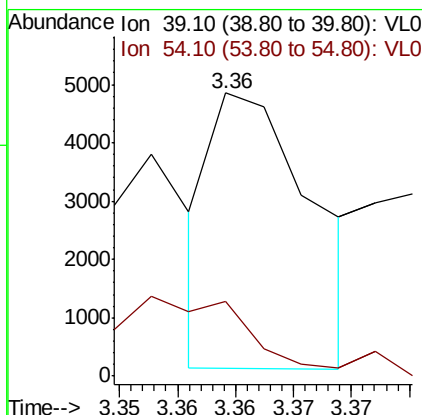
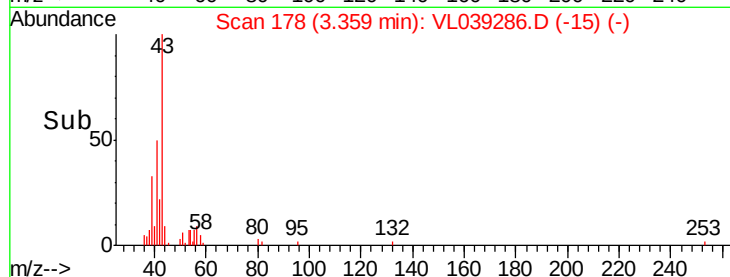
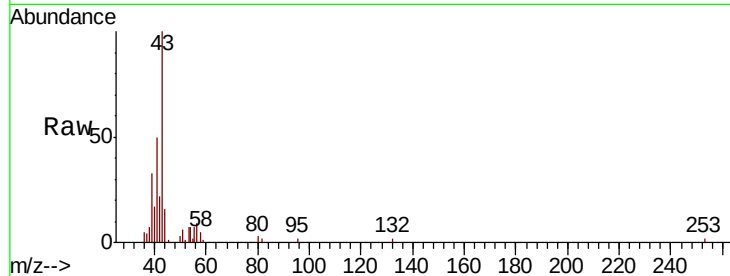
Tgt Ion: 43 Resp: 680663
Ion Ratio Lower Upper
43 100
58 24.4 22.5 33.7





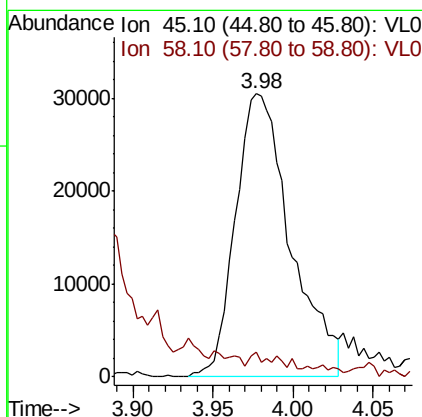
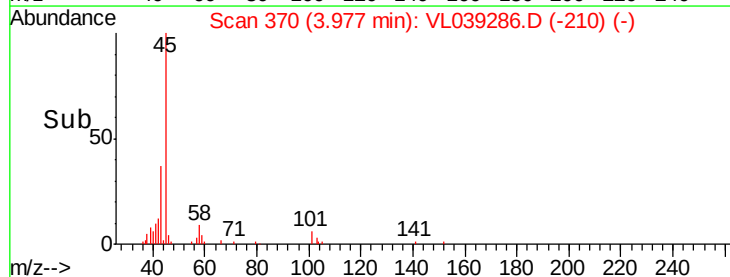
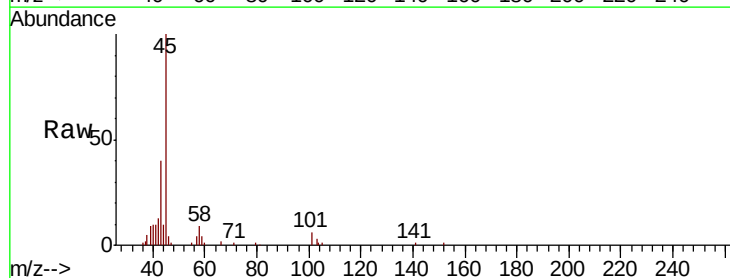
#16
 1,3-Butadiene
 Concen: 0.040 ppbv
 RT: 3.36
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SS-1DL
 Acq: 14 Jun 2022 18:44

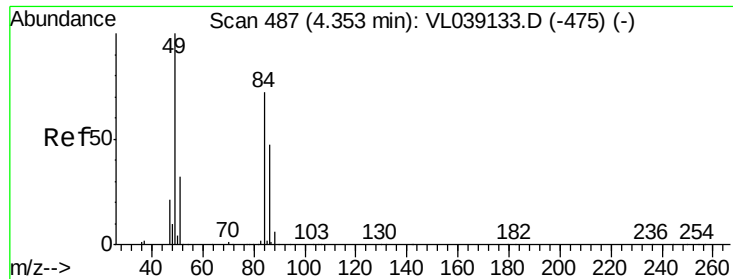
Tot Ion: 39 Resp: 2856
 Ion Ratio Lower Upper
 39 100
 54 177.5 65.8 98.6#



#19
 Isopropyl Alcohol
 Concen: 1.148 ppbv
 RT: 3.98 min Scan# 370
 Delta R.T. 0.01 min
 Lab File: VL039286.D
 Acq: 14 Jun 2022 18:44

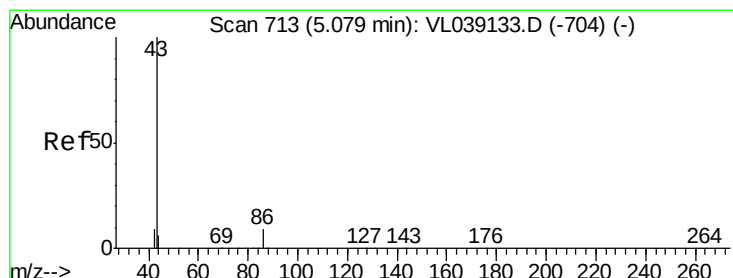
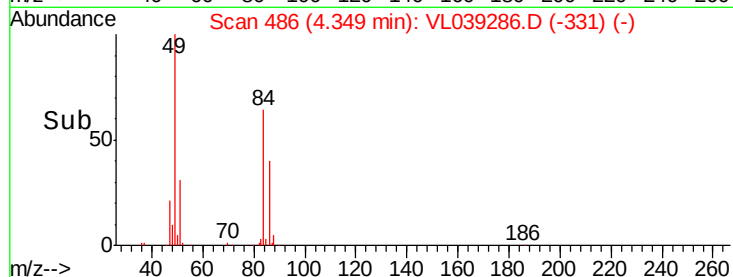
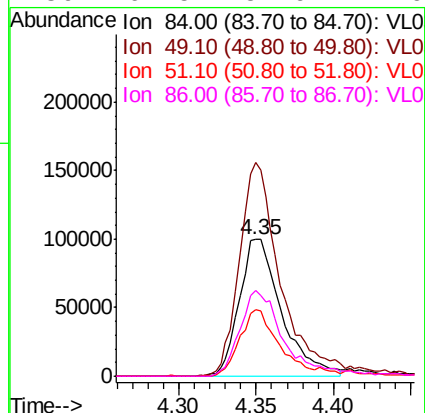
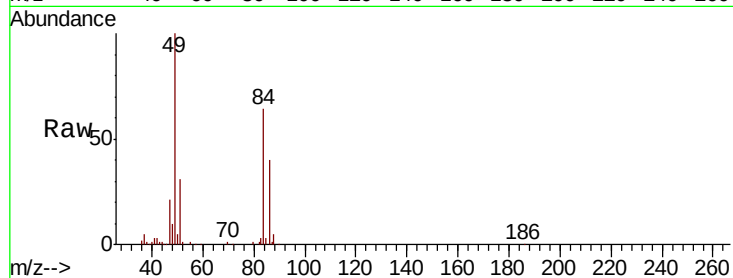
Tgt Ion: 45 Resp: 72342
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.8 2.8#





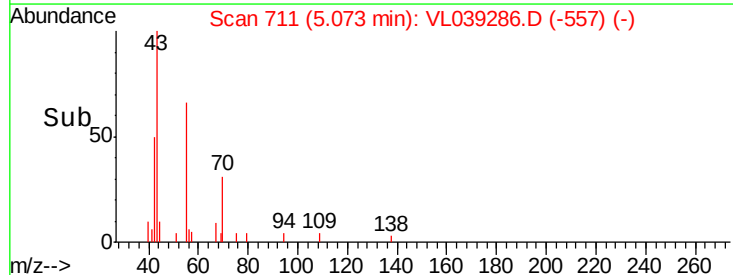
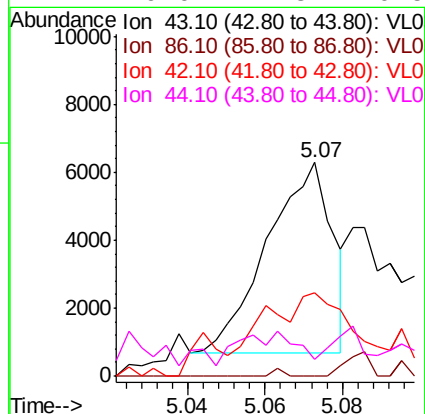
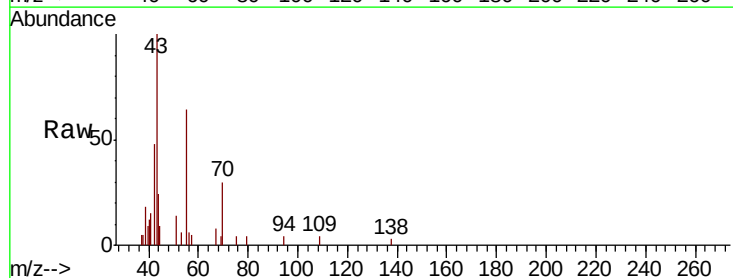
#20
Methvlene Chloride
Concen: 3.354 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 18:44

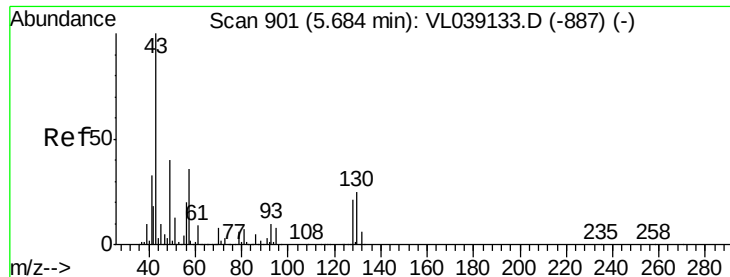
Tot Ion:	84	Resp:	189921
Ion	Ratio	Lower	Upper
84	100		
49	156.1	111.1	166.7
51	48.6	35.3	52.9
86	62.5	51.9	77.9



#23
Vinyl Acetate
Concen: 0.059 ppbv
RT: 5.07 min Scan# 711
Delta R.T. -0.01 min
Lab File: VL039286.D
Acq: 14 Jun 2022 18:44

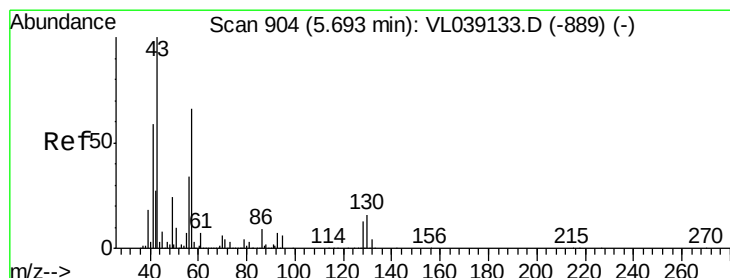
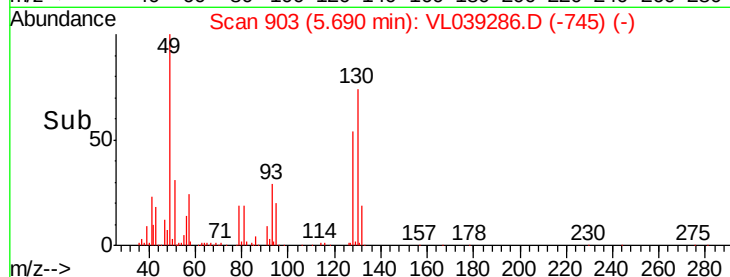
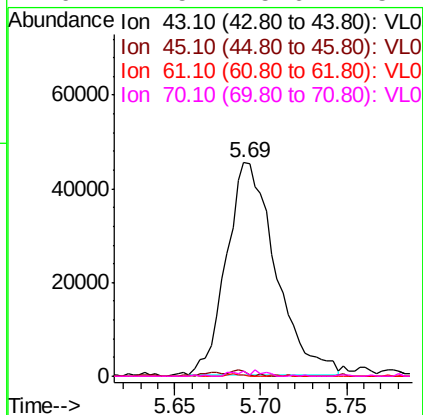
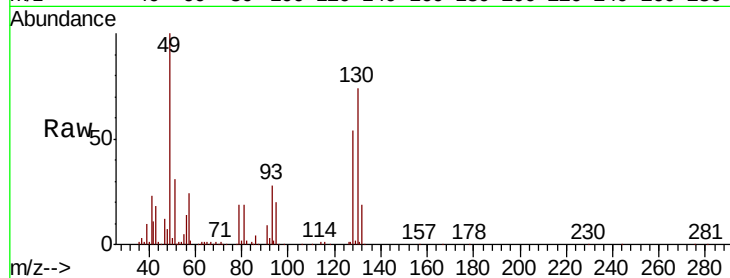
Tgt Ion:	43	Resp:	6543
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.0	9.0#
42	17.7	8.2	12.4#
44	0.0	4.3	6.5#





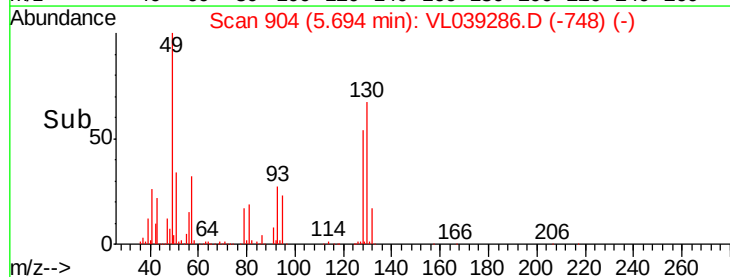
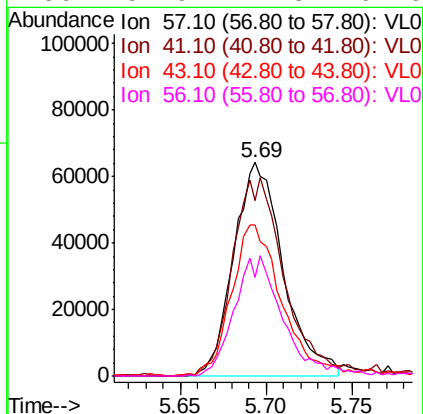
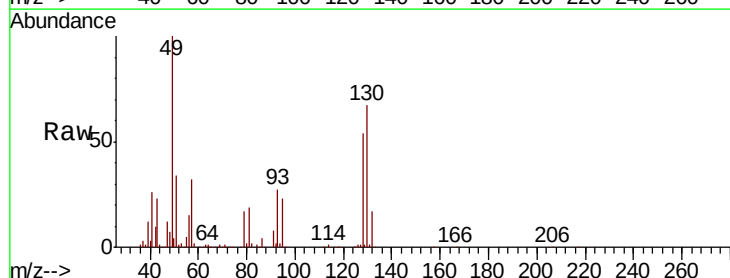
#25
Ethyl Acetate
Concen: 0.298 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 18:44

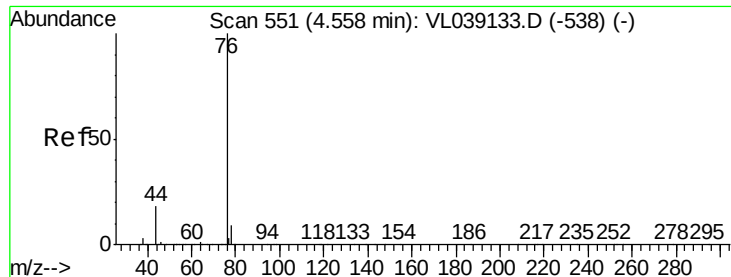
Tot Ion:	43	Resp:	90257
Ion	Ratio	Lower	Upper
43	100		
45	2.0	8.2	12.2#
61	0.2	8.4	12.6#
70	1.5	5.6	8.4#



#26
Hexane
Concen: 0.966 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.00 min
Lab File: VL039286.D
Acq: 14 Jun 2022 18:44

Tgt Ion:	57	Resp:	128538
Ion	Ratio	Lower	Upper
57	100		
41	101.1	72.4	108.6
43	74.1	187.0	280.6#
56	54.9	41.8	62.6





#27

Carbon Disulfide

Concen: 0.034 ppbv

RT: 4.56 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SS-1DL

Acq: 14 Jun 2022 18:44

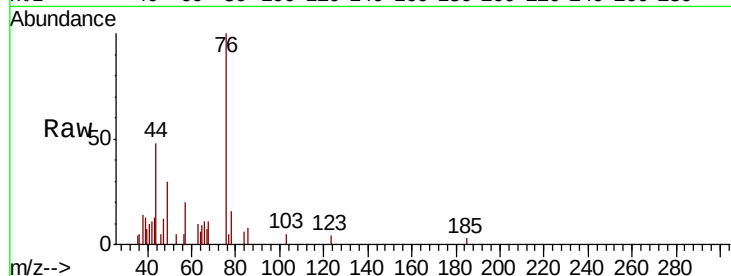
Tot Ion: 76 Resp: 4688

Ion Ratio Lower Upper

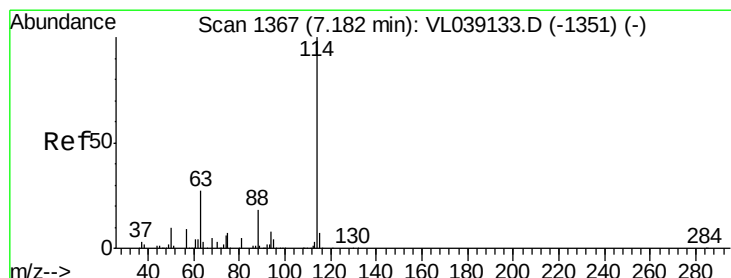
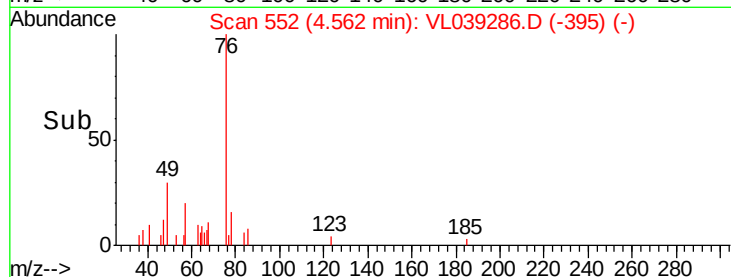
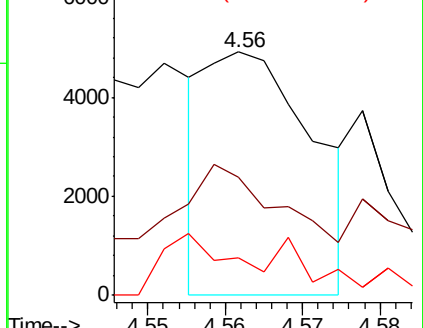
76 100

44 194.2 14.4 21.6#

78 30.6 7.7 11.5#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.00 min

Lab File: VL039286.D

Acq: 14 Jun 2022 18:44

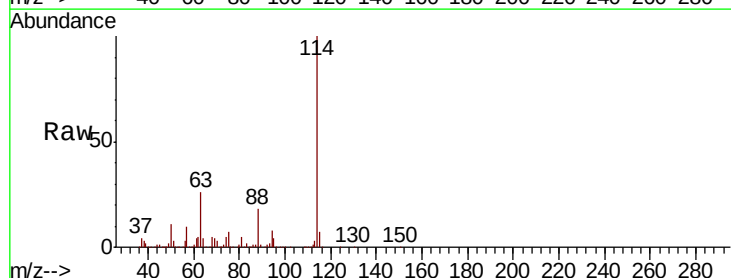
Tgt Ion: 114 Resp: 3557953

Ion Ratio Lower Upper

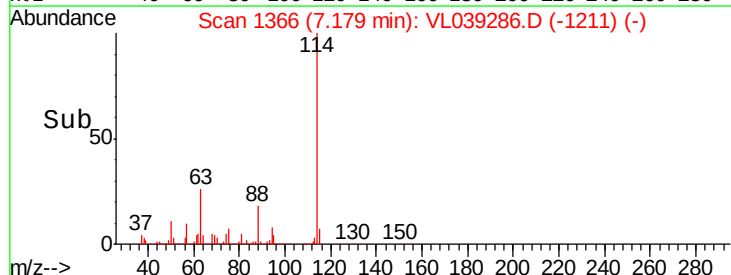
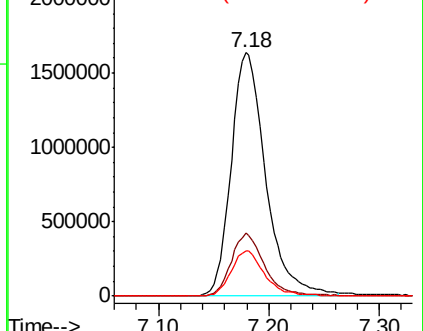
114 100

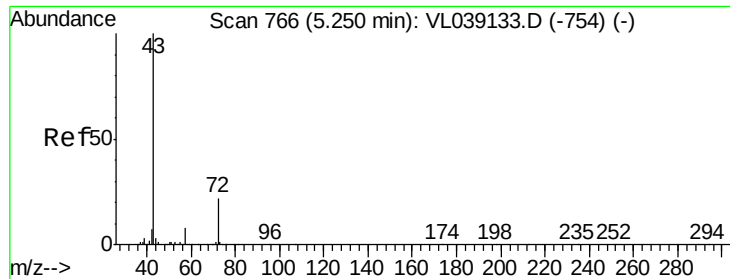
63 25.4 21.7 32.5

88 18.4 14.8 22.2



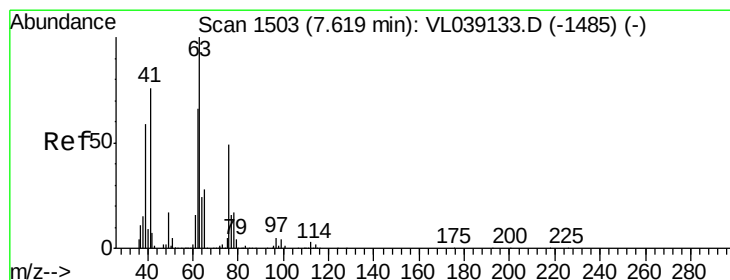
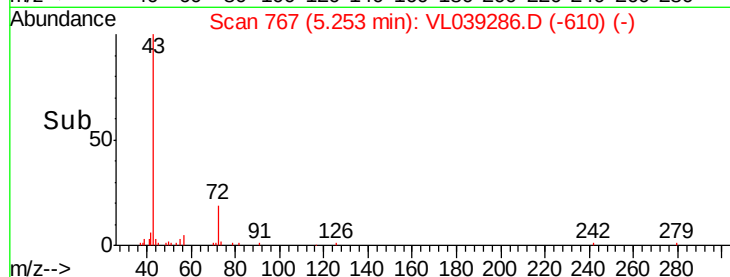
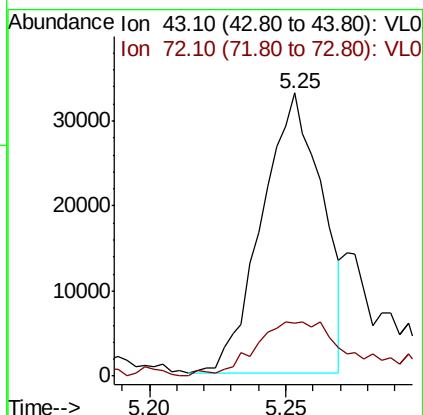
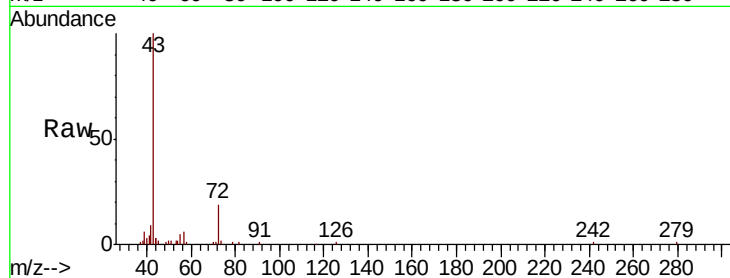
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





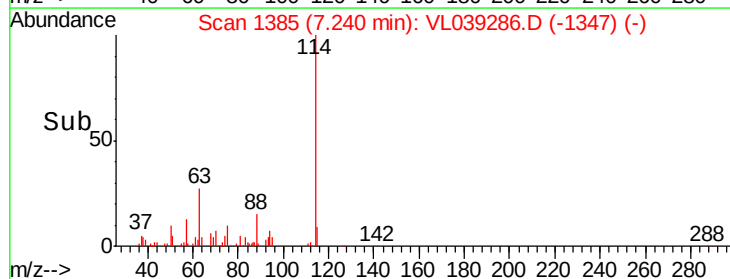
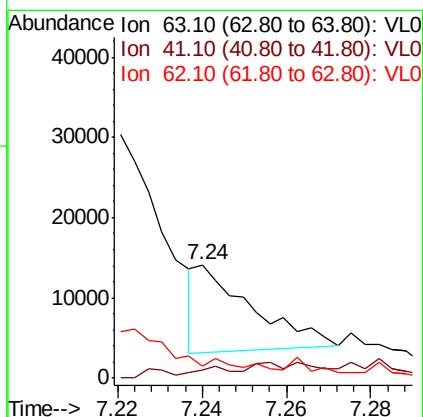
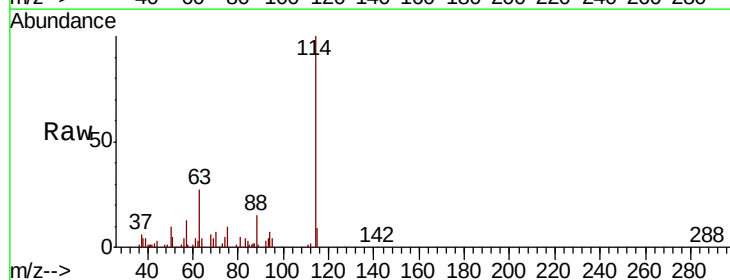
#34
 2-Butanone
 Concen: 0.261 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 SS-1DL
 Acq: 14 Jun 2022 18:44

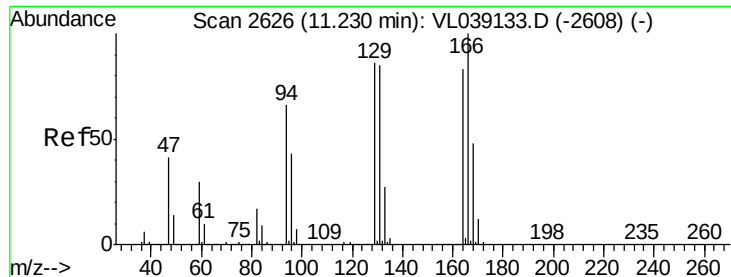
Tot Ion: 43 Resp: 50420
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.2 27.2#



#39
 1,2-Dichloropropane
 Concen: 0.086 ppbv
 RT: 7.24 min Scan# 1385
 Delta R.T. -0.38 min
 Lab File: VL039286.D
 Acq: 14 Jun 2022 18:44

Tgt Ion: 63 Resp: 9870
 Ion Ratio Lower Upper
 63 100
 41 3.9 60.8 91.2#
 62 8.0 52.9 79.3#





#52

Tetrachloroethene

Concen: 0.188 ppbv

RT: 11.23

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Jun 2022 18:44

Tot Ion:164 Resp: 21201

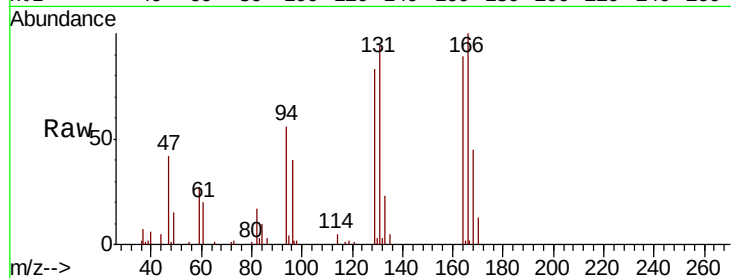
Ion Ratio Lower Upper

164 100

166 106.0 96.3 144.5

129 97.1 82.5 123.7

131 101.6 82.1 123.1

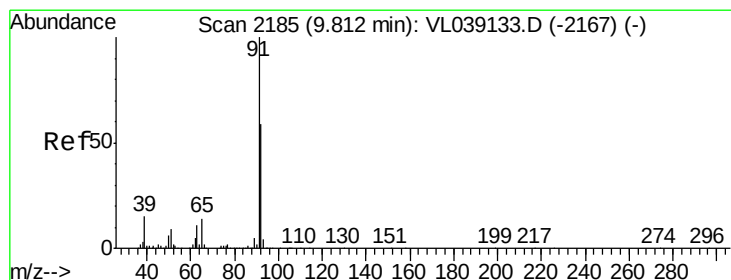
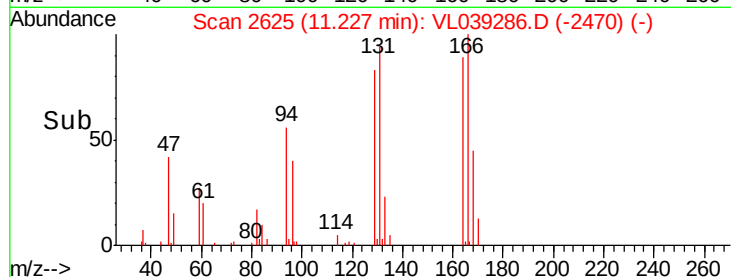
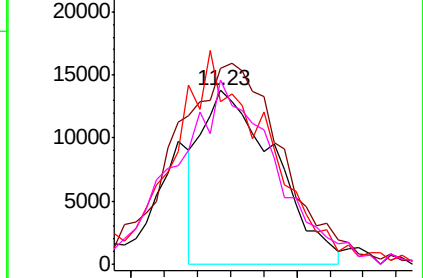


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.109 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL039286.D

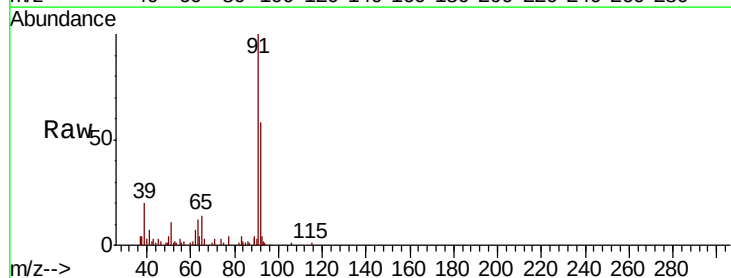
Acq: 14 Jun 2022 18:44

Tgt Ion: 91 Resp: 36093

Ion Ratio Lower Upper

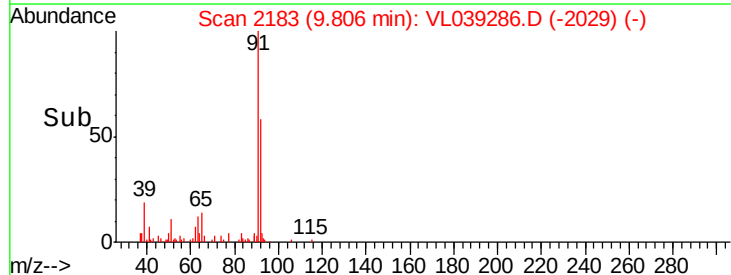
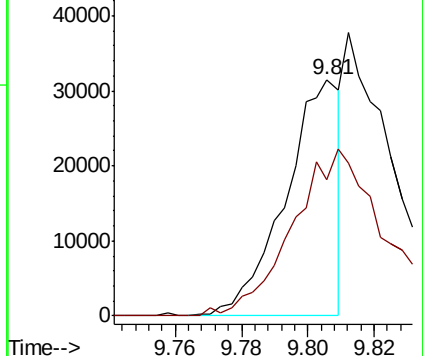
91 100

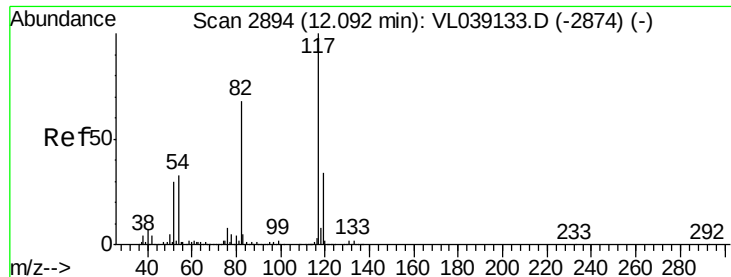
92 0.0 48.1 72.1#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Jun 2022 18:44

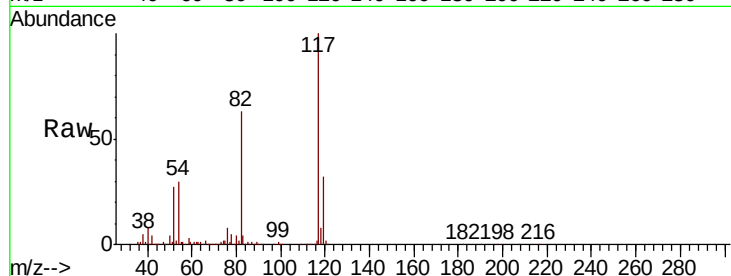
Tot Ion:117 Resp: 3189091

Ion Ratio Lower Upper

117 100

82 66.8 55.1 82.7

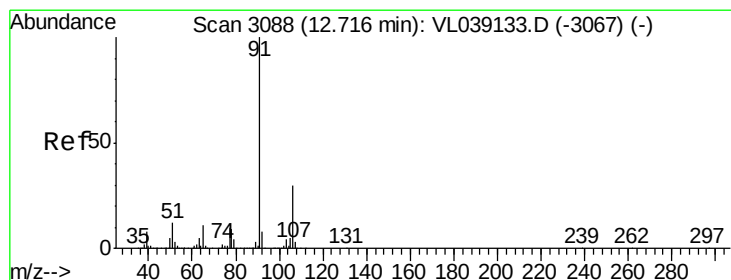
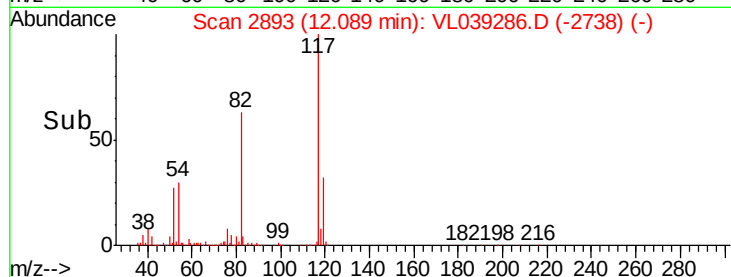
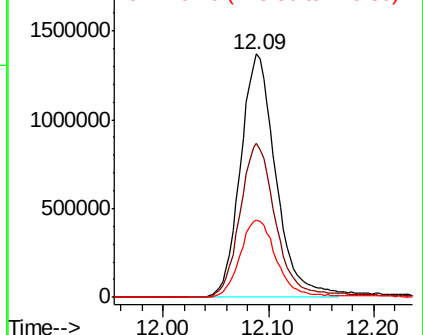
119 34.0 24.7 37.1



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.055 ppbv

RT: 12.71 min Scan# 3086

Delta R.T. -0.01 min

Lab File: VL039286.D

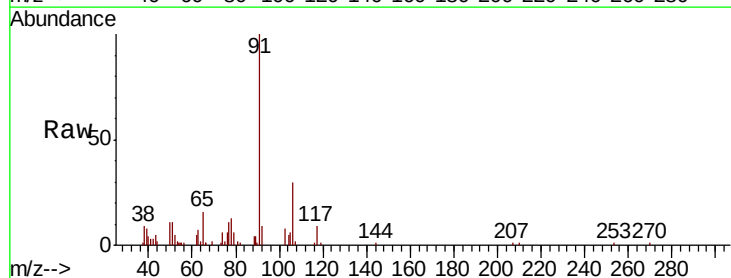
Acq: 14 Jun 2022 18:44

Tgt Ion: 91 Resp: 24066

Ion Ratio Lower Upper

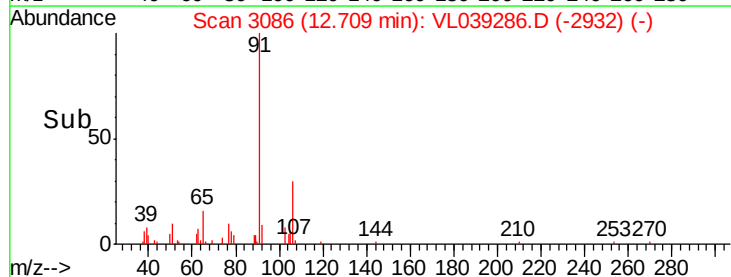
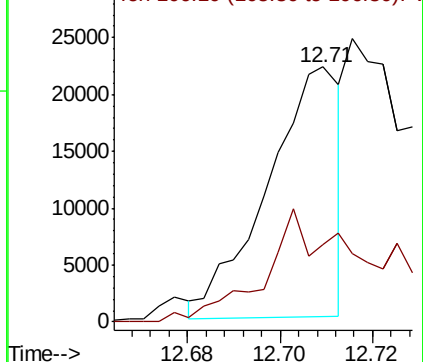
91 100

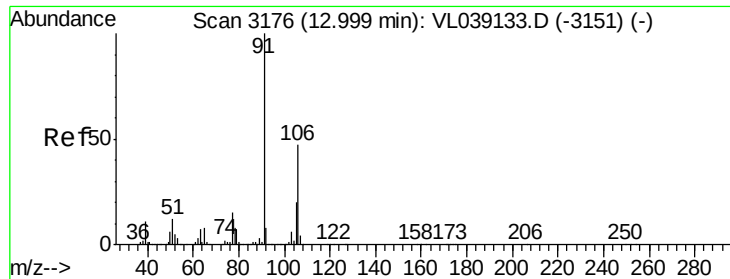
106 31.1 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

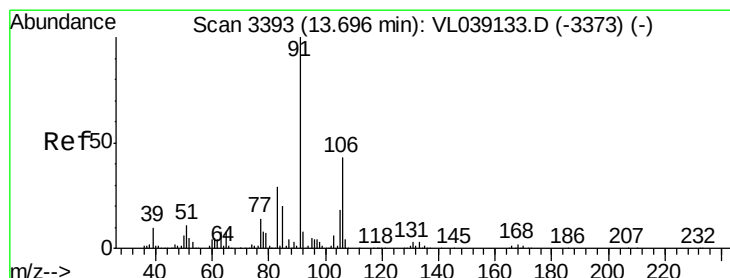
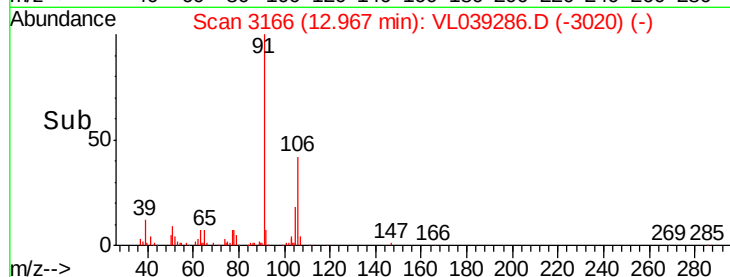
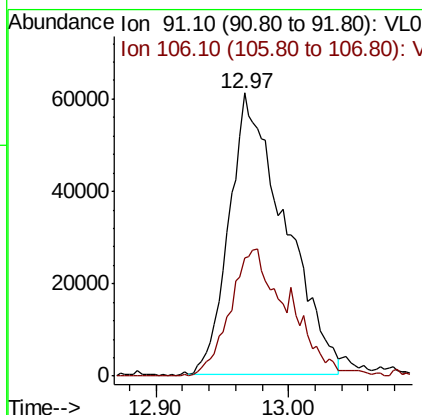
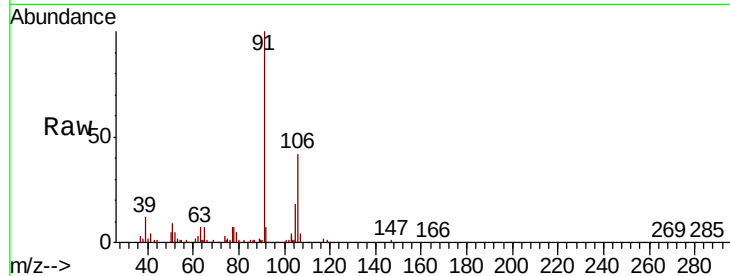
Ion 106.10 (105.80 to 106.80): V





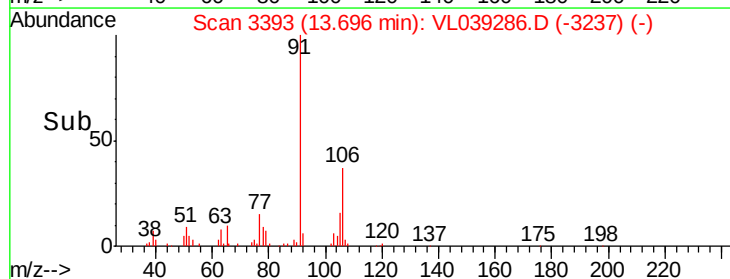
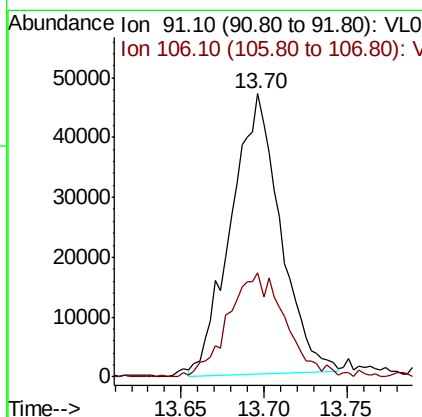
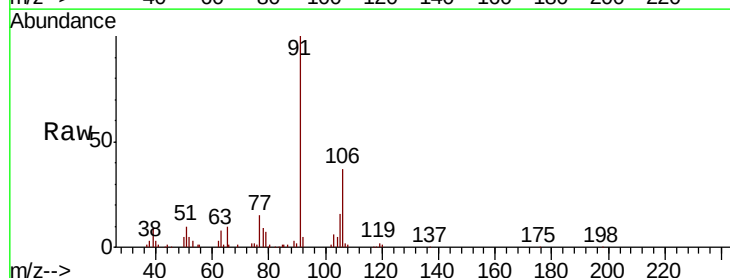
#59
m/p-Xylene
Concen: 0.459 ppbv
RT: 12.97 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Jun 2022 18:44

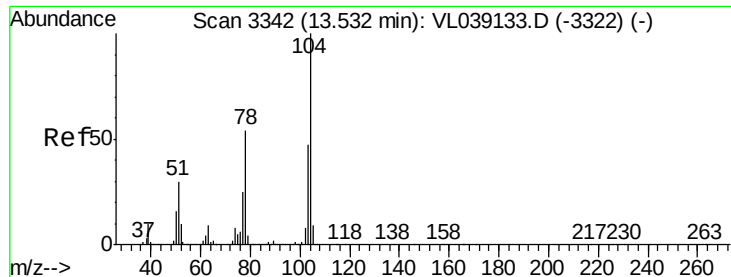
Tot Ion: 91 Resp: 177493
Ion Ratio Lower Upper
91 100
106 47.7 34.3 51.5



#60
o-Xylene
Concen: 0.267 ppbv
RT: 13.70 min Scan# 3393
Delta R.T.: 0.00 min
Lab File: VL039286.D
Acq: 14 Jun 2022 18:44

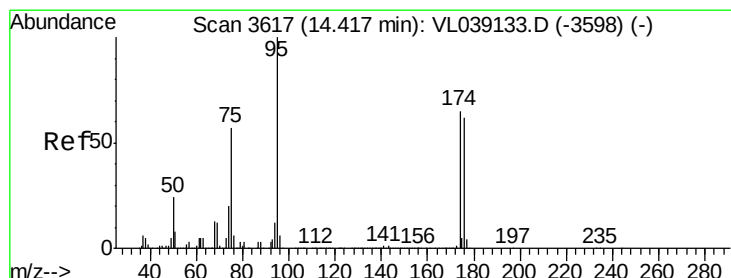
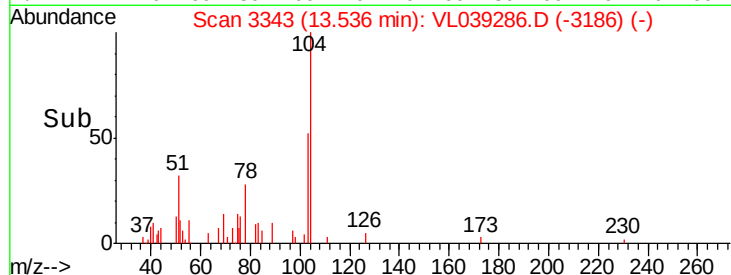
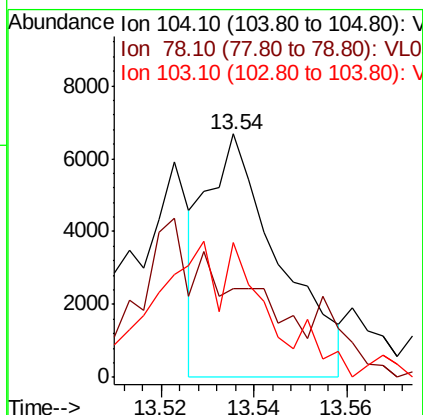
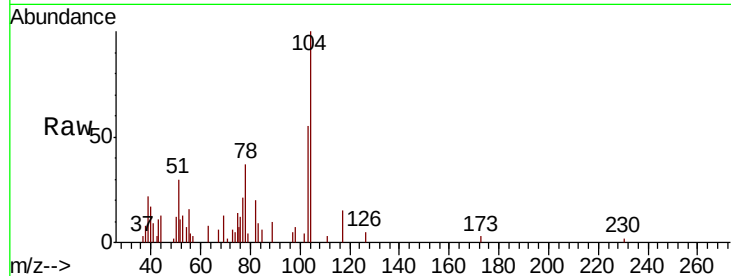
Tgt Ion: 91 Resp: 97069
Ion Ratio Lower Upper
91 100
106 43.2 22.3 66.9





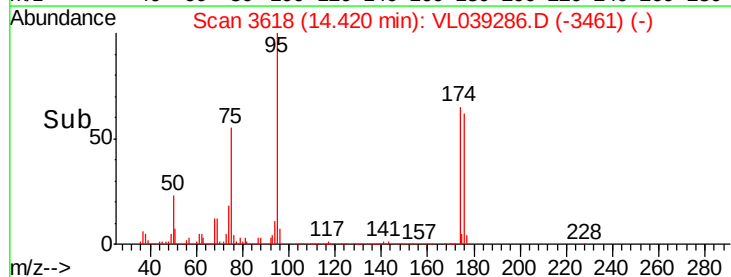
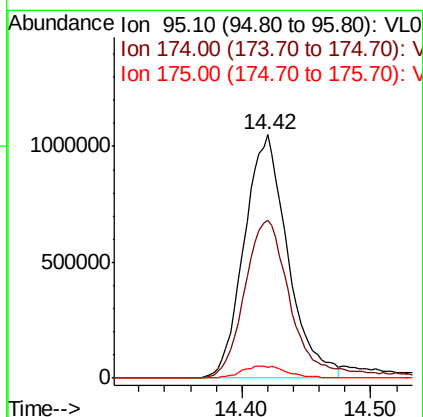
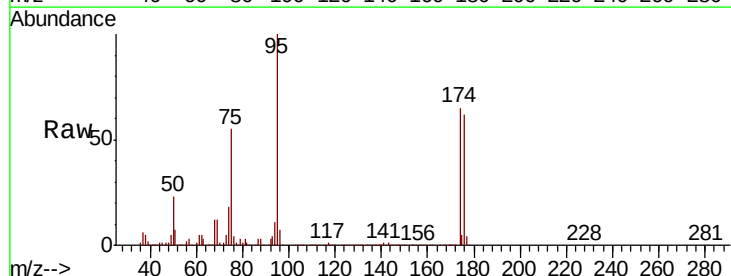
#61
Stvrene
Concen: 0.037 ppbv
RT: 13.54
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 18:44

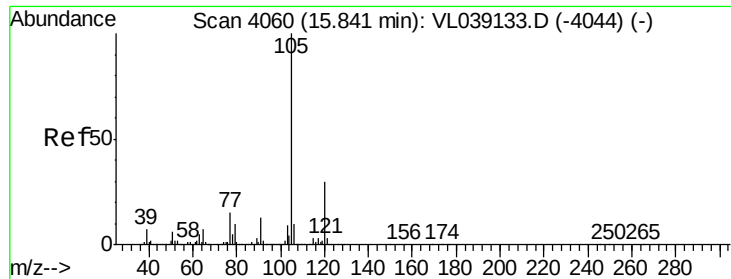
Tot Ion: 104 Resp: 7286
Ion Ratio Lower Upper
104 100
78 0.0 45.7 68.5#
103 98.3 39.6 59.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.357 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. 0.00 min
Lab File: VL039286.D
Acq: 14 Jun 2022 18:44

Tgt Ion: 95 Resp: 2466901
Ion Ratio Lower Upper
95 100
174 71.2 53.8 80.8
175 5.3 4.1 6.1





#72

4-Ethyltoluene

Concen: 0.052 ppbv

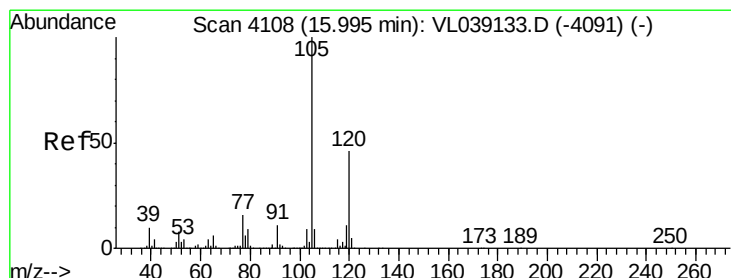
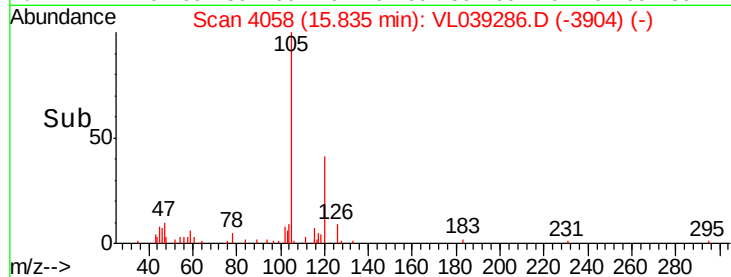
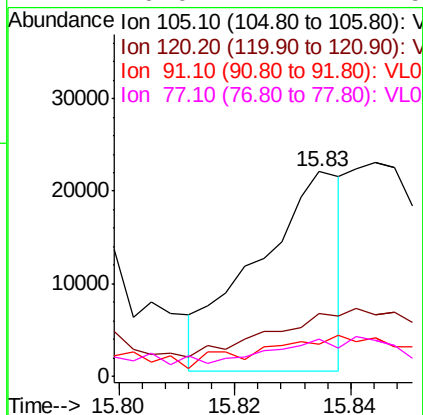
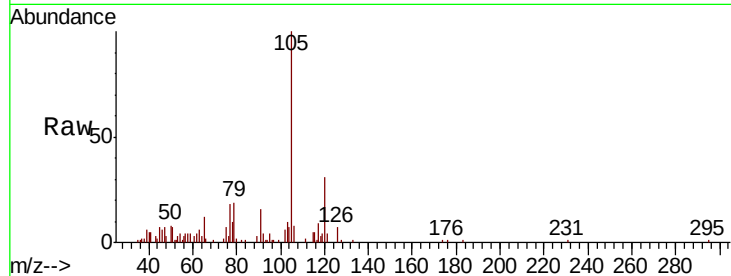
RT: 15.83

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Jun 2022 18:44

Tot Ion:	105	Resp:	22002
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.9	35.9#
91	0.0	10.6	16.0#
77	0.0	11.7	17.5#



#73

1,3,5-Trimethylbenzene

Concen: 0.166 ppbv

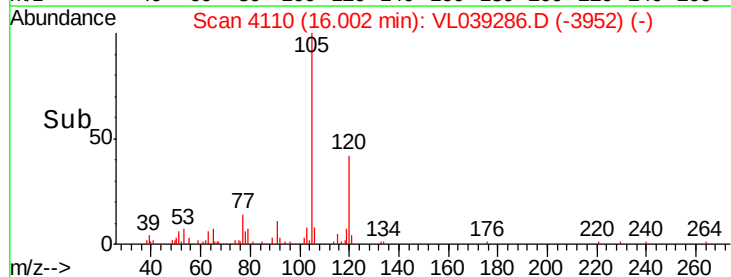
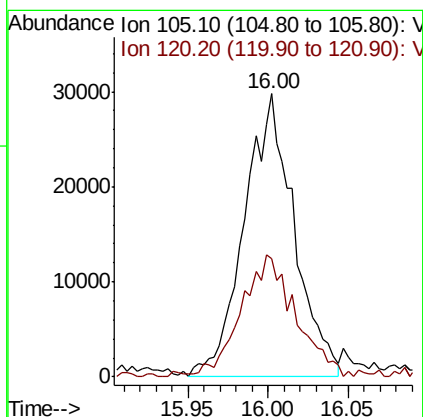
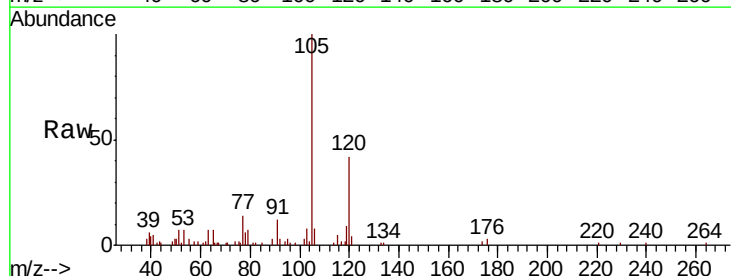
RT: 16.00 min Scan# 4110

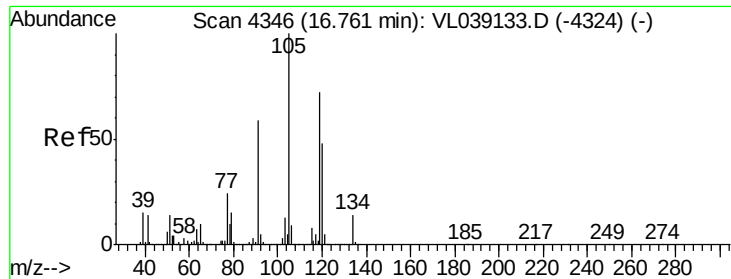
Delta R.T. 0.01 min

Lab File: VL039286.D

Acq: 14 Jun 2022 18:44

Tgt Ion:	105	Resp:	63666
Ion	Ratio	Lower	Upper
105	100		
120	44.5	36.7	55.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.572 ppbv
 RT: 16.76
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 SS-1DL
 Acq: 14 Jun 2022 18.44

Tot Ion:	105	Resp:	245268
Ion Ratio	Lower	Upper	
105	100		
120	37.9	38.1	57.1#
91	12.0	47.4	71.0#
77	13.9	19.5	29.3#

