

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060822\
 Data File : VL039250.D
 Acq On : 9 Jun 2022 1:05
 Operator : SY/AP
 Sample : N3187-03DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-2DUP

Quant Time: Jun 09 06:42:51 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	5.68	49	851412	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1815087	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1467931	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	1381647	11.38	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	113.80%

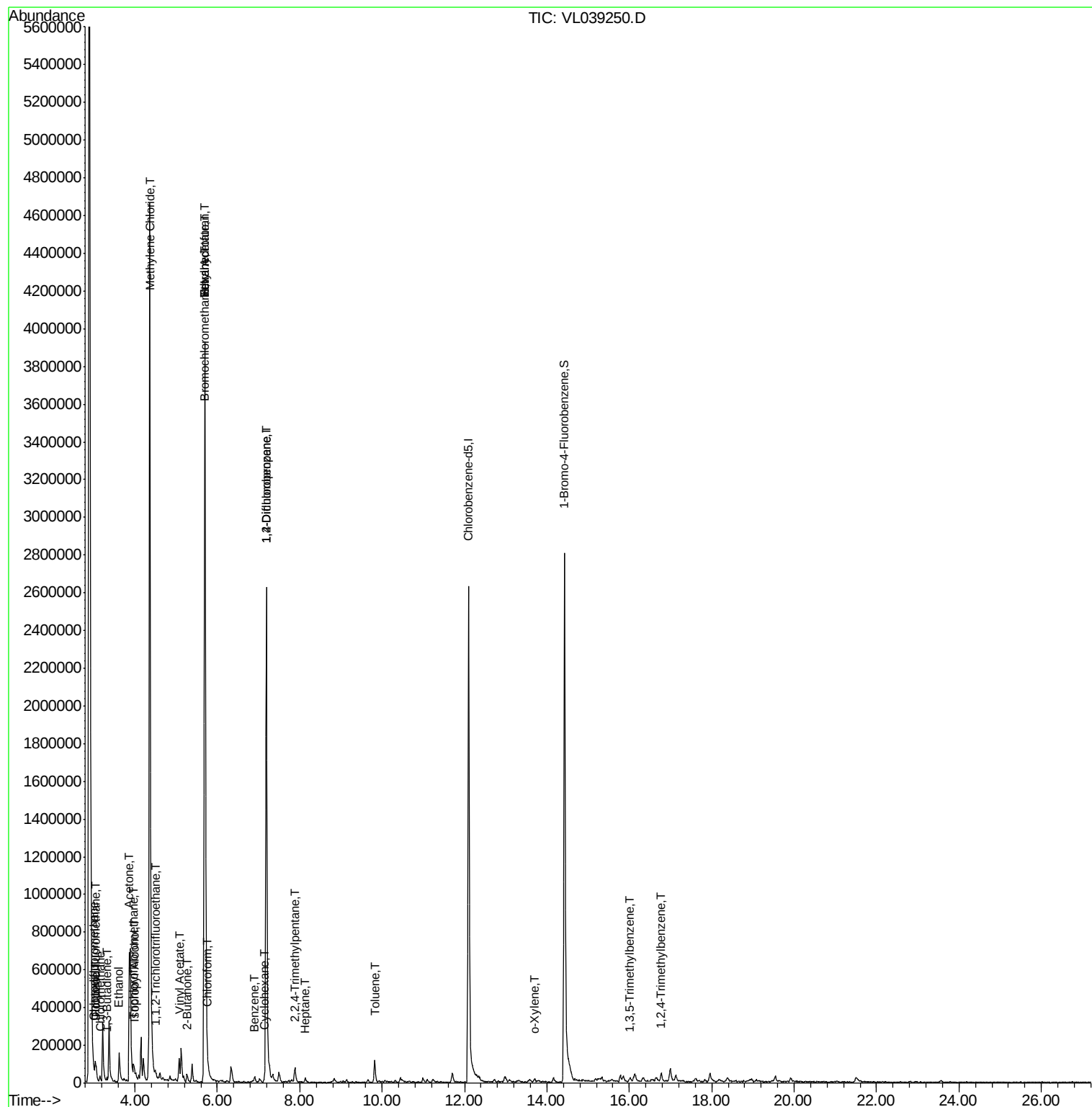
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	55393	0.370 ppbv	97
3) Chlorodifluoromethane	3.01	51	51749	0.478 ppbv	94
4) Chloromethane	3.16	50	24649	0.443 ppbv #	78
9) Propene	3.03	41	23052	0.488 ppbv	83
10) Heptane	8.14	43	4872	0.044 ppbv #	41
11) Trichlorofluoromethane	3.96	101	41504	0.307 ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.50	101	4928	0.055 ppbv #	20
13) Ethanol	3.62	45	84330	32.736 ppbv #	100
15) Acetone	3.86	43	1050244	11.842 ppbv	90
16) 1,3-Butadiene	3.32	39	2477	0.052 ppbv #	41
19) Isopropyl Alcohol	3.99	45	42972	1.033 ppbv #	93
20) Methylene Chloride	4.36	84	2036531	54.489 ppbv	96
23) Vinyl Acetate	5.08	43	27370	0.373 ppbv #	27
25) Ethyl Acetate	5.70	43	940273	4.704 ppbv #	76
26) Hexane	5.70	57	1367180	15.564 ppbv #	36
29) Chloroform	5.77	83	4706	0.032 ppbv #	49
30) Cyclohexane	7.14	84	3327	0.045 ppbv #	1
34) 2-Butanone	5.26	43	50623	0.513 ppbv	95
36) Benzene	6.91	78	8725	0.059 ppbv	98
39) 1,2-Dichloropropane	7.19	63	549899	9.382 ppbv #	25
41) Tetrahydrofuran	5.70	42	503571	8.491 ppbv #	49
44) 2,2,4-Trimethylpentane	7.88	57	54752	0.212 ppbv #	66
53) Toluene	9.82	91	75562	0.445 ppbv	100
60) o-Xylene	13.70	91	9155	0.055 ppbv	81
73) 1,3,5-Trimethylbenzene	16.01	105	8419	0.048 ppbv #	31
74) 1,2,4-Trimethylbenzene	16.77	105	14189	0.072 ppbv #	61

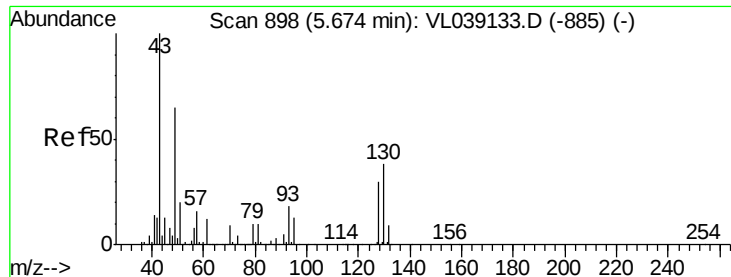
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: AA-2DUP

Acq: 9 Jun 2022 1:05

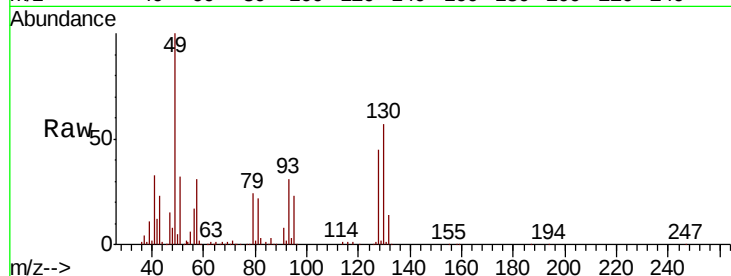
Tot Ion: 49 Resp: 851412

Ion Ratio Lower Upper

49 100

128 46.4 24.7 74.1

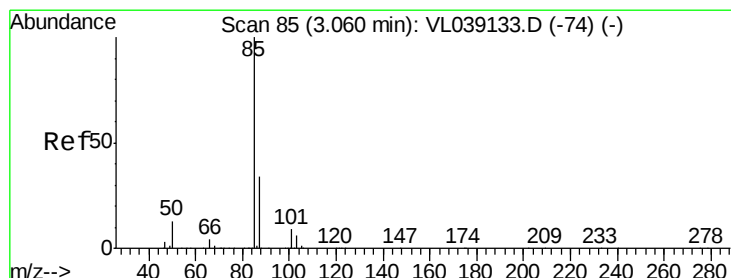
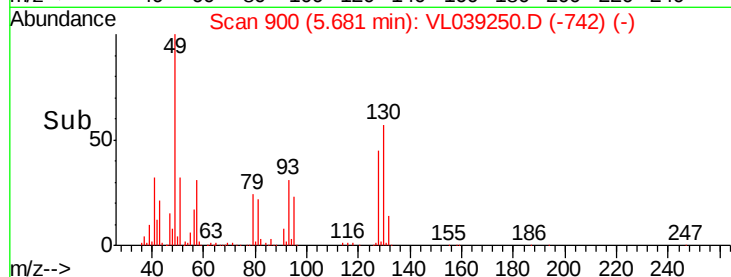
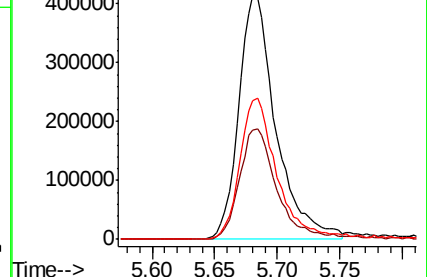
130 58.6 31.4 94.0



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: 0.370 ppbv

RT: 3.06 min Scan# 86

Delta R.T. 0.00 min

Lab File: VL039250.D

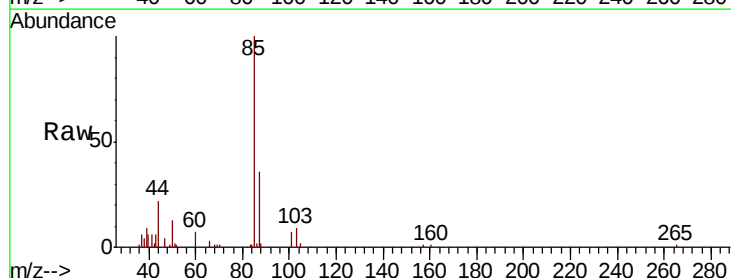
Acq: 9 Jun 2022 1:05

Tgt Ion: 85 Resp: 55393

Ion Ratio Lower Upper

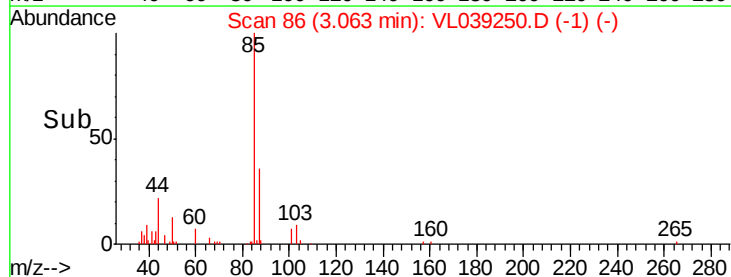
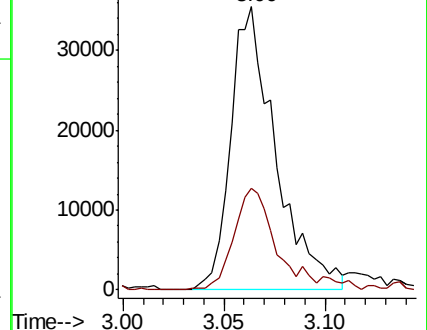
85 100

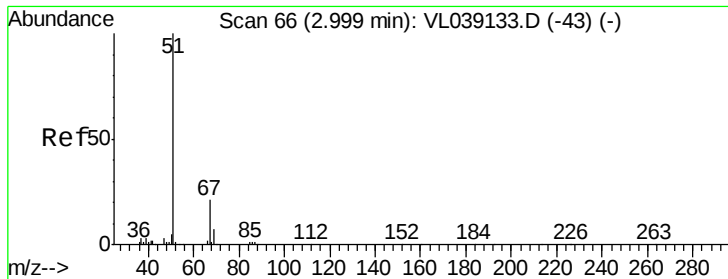
87 35.4 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.478 ppbv

RT: 3.01 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: AA-2DUP

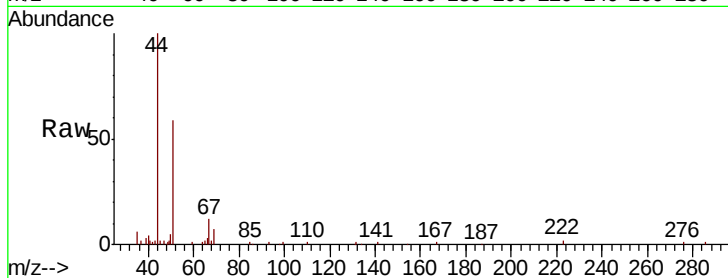
Acq: 9 Jun 2022 1:05

Tot Ion: 51 Resp: 51749

Ion Ratio Lower Upper

51 100

67 17.3 16.2 24.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.01

25000

20000

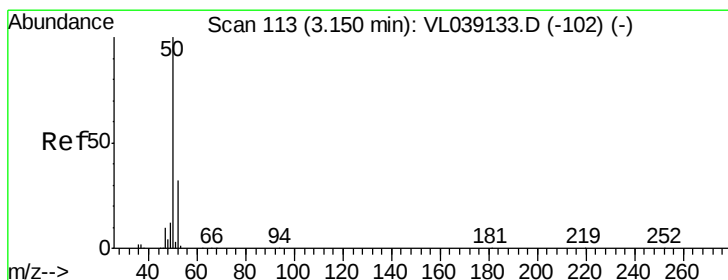
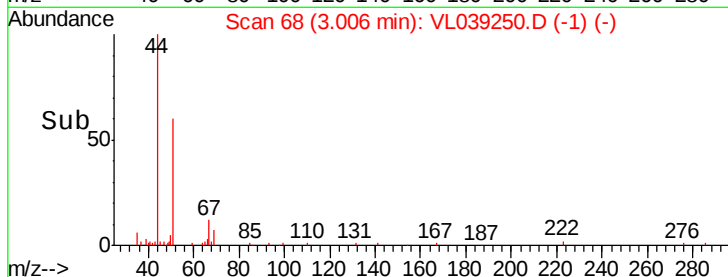
15000

10000

5000

0

Time--> 2.90 3.00 3.10



#4

Chloromethane

Concen: 0.443 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.01 min

Lab File: VL039250.D

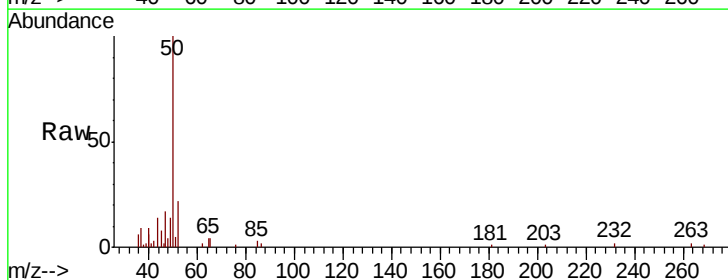
Acq: 9 Jun 2022 1:05

Tgt Ion: 50 Resp: 24649

Ion Ratio Lower Upper

50 100

52 20.2 25.9 38.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.16

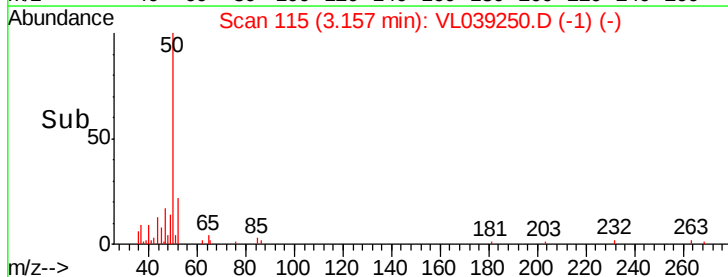
15000

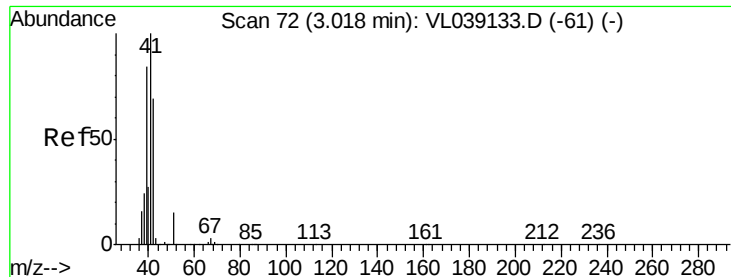
10000

5000

0

Time--> 3.15 3.20





#9

Propene

Concen: 0.488 ppbv

RT: 3.03 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

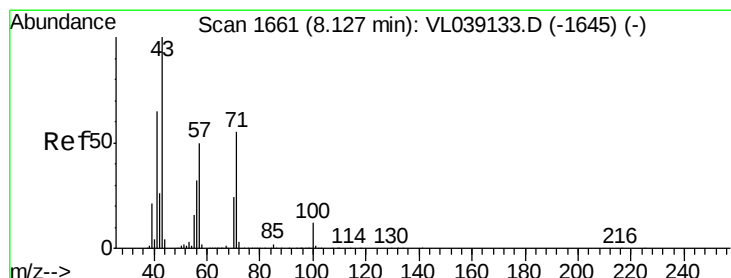
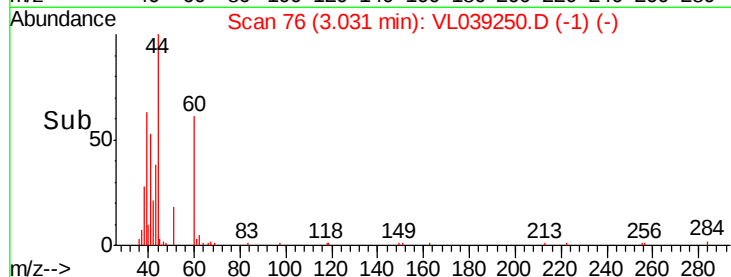
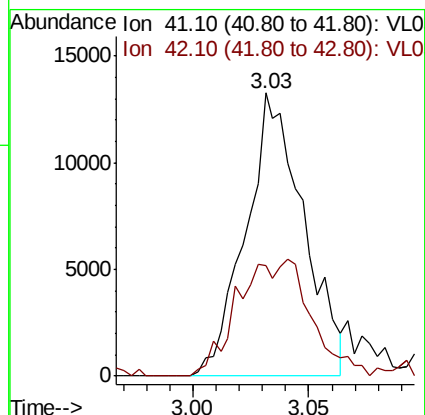
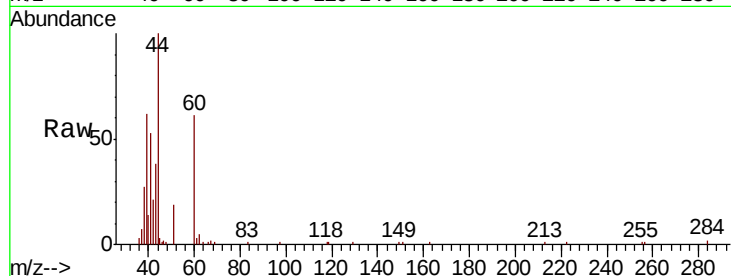
Acq: 9 Jun 2022 1:05

Tot Ion: 41 Resp: 23052

Ion Ratio Lower Upper

41 100

42 55.7 55.4 83.2



#10

Heptane

Concen: 0.044 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.01 min

Lab File: VL039250.D

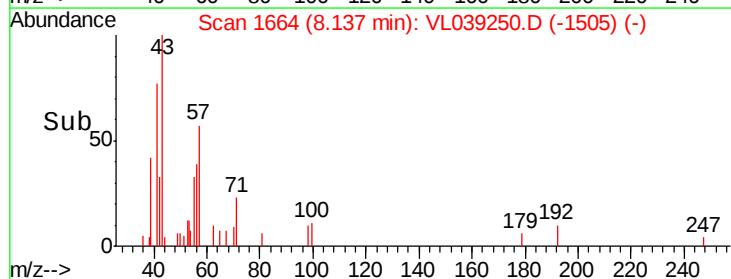
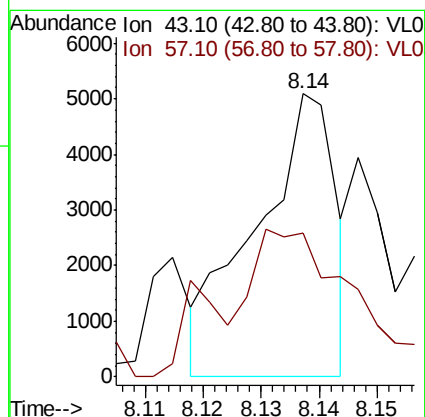
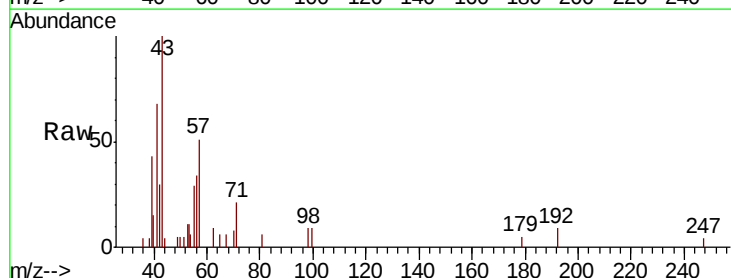
Acq: 9 Jun 2022 1:05

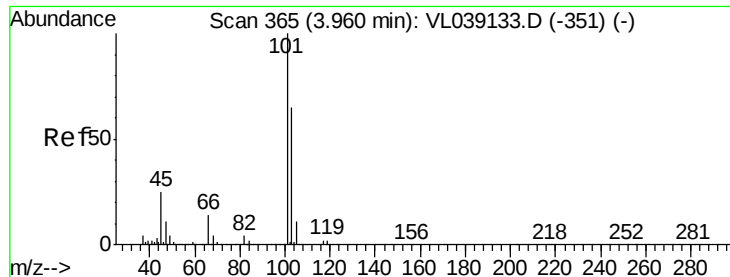
Tgt Ion: 43 Resp: 4872

Ion Ratio Lower Upper

43 100

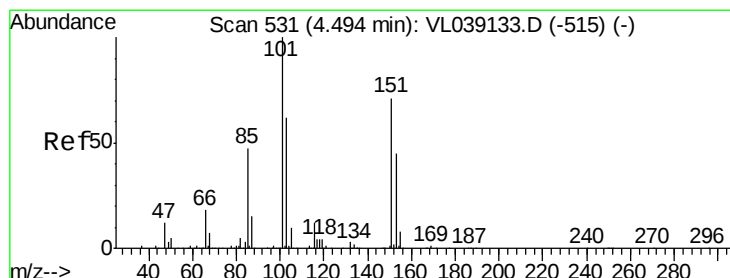
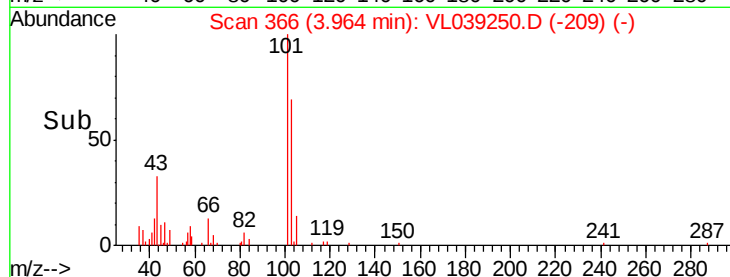
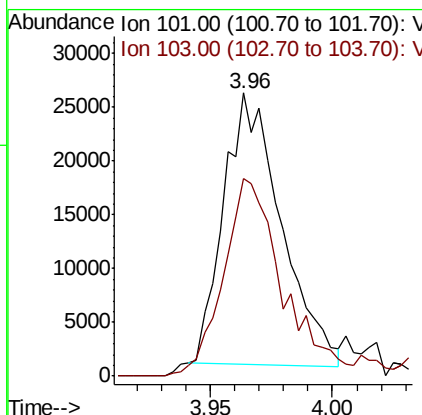
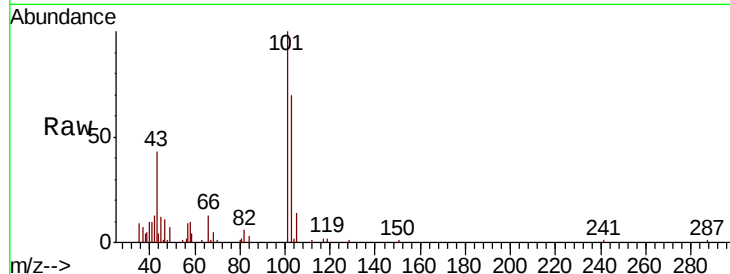
57 93.1 41.4 62.2#





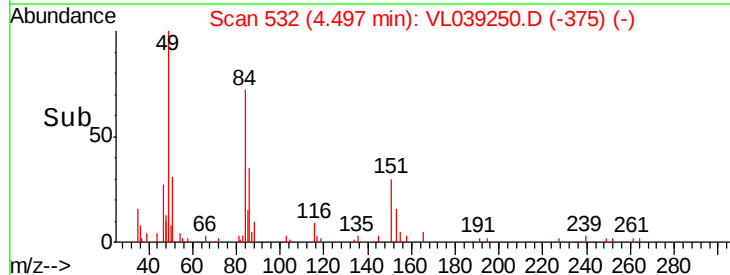
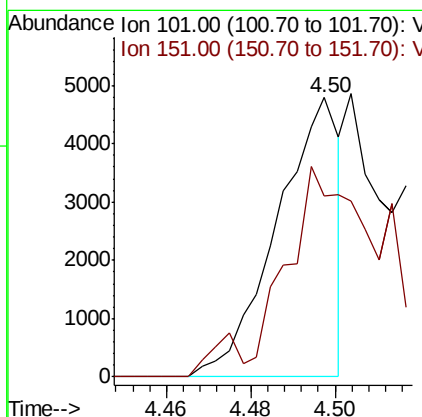
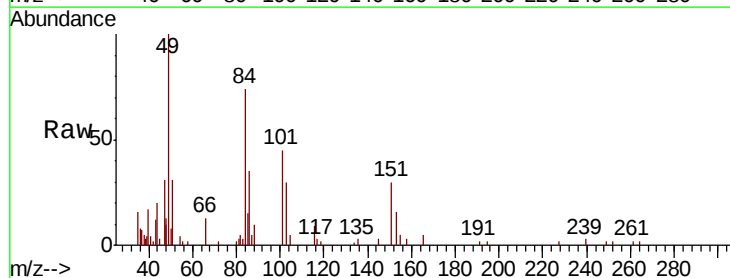
#11
 Trichlorofluoromethane
 Concen: 0.307 ppbv
 RT: 3.96
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 9 Jun 2022 1:05

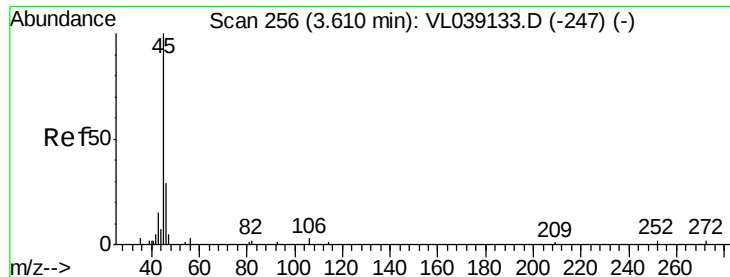
Tot Ion:101 Resp: 41504
 Ion Ratio Lower Upper
 101 100
 103 69.3 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.055 ppbv
 RT: 4.50 min Scan# 532
 Delta R.T. 0.00 min
 Lab File: VL039250.D
 Acq: 9 Jun 2022 1:05

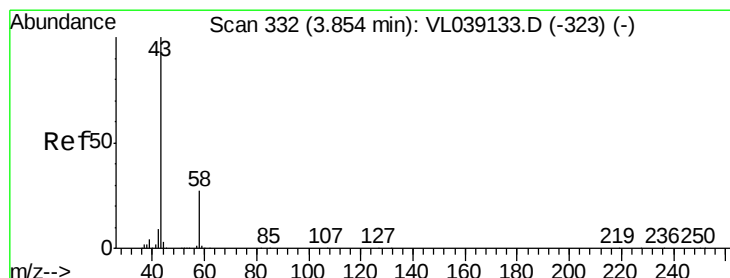
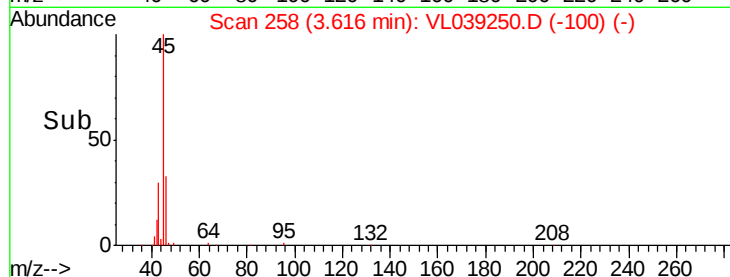
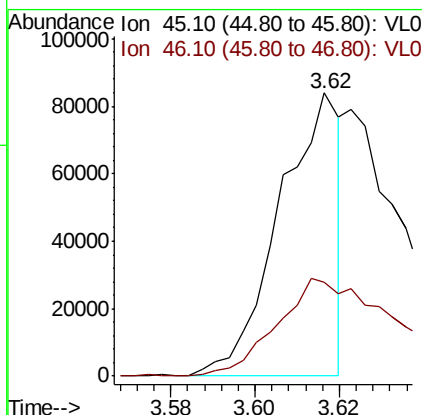
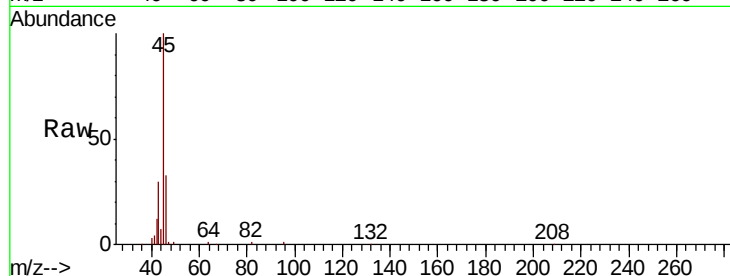
Tgt Ion:101 Resp: 4928
 Ion Ratio Lower Upper
 101 100
 151 141.6 59.4 89.0#





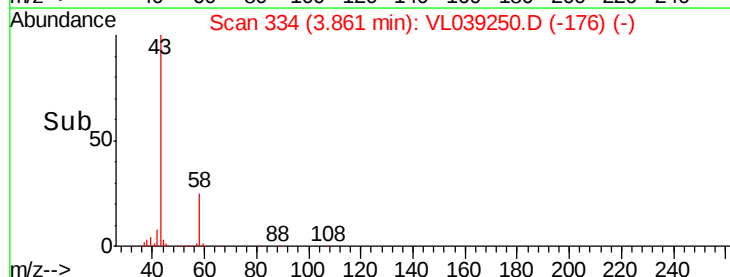
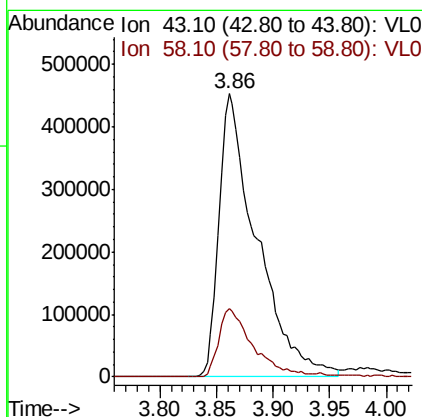
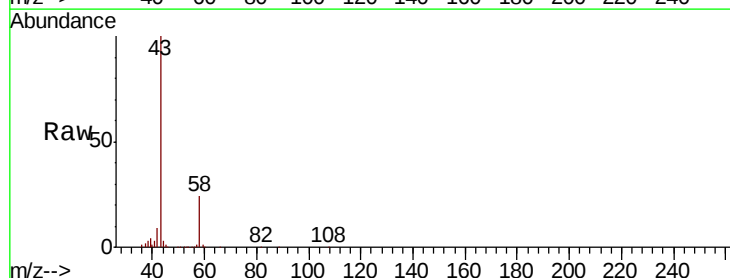
#13
Ethanol
Concen: 32.736 ppbv
RT: 3.62
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 9 Jun 2022 1:05

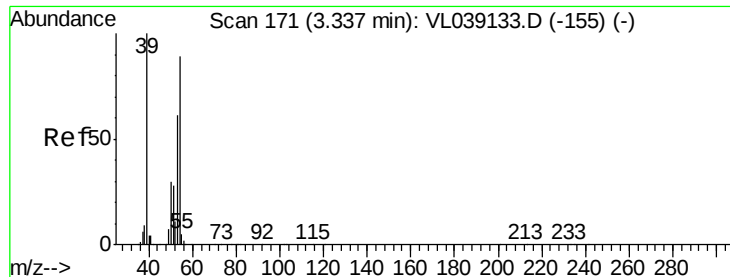
Tot Ion: 45 Resp: 84330
Ion Ratio Lower Upper
45 100
46 82.8 0.0 0.0#



#15
Acetone
Concen: 11.842 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.01 min
Lab File: VL039250.D
Acq: 9 Jun 2022 1:05

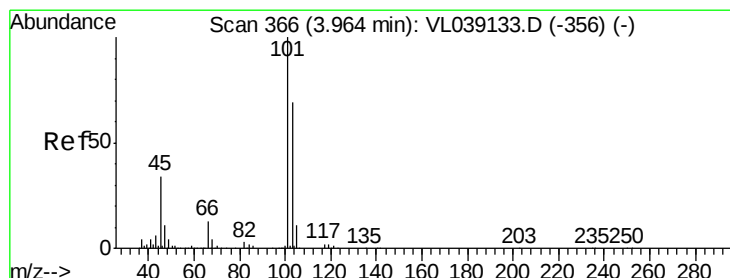
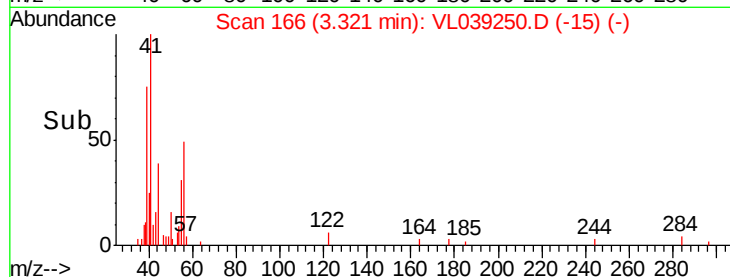
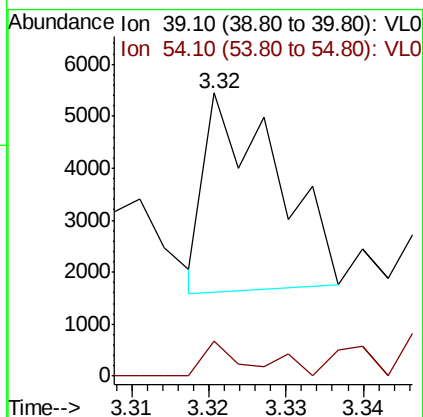
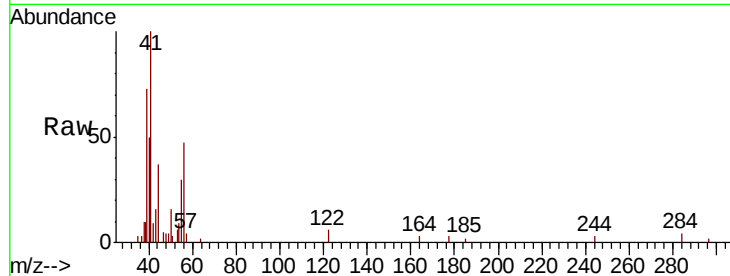
Tgt Ion: 43 Resp: 1050244
Ion Ratio Lower Upper
43 100
58 22.7 22.5 33.7





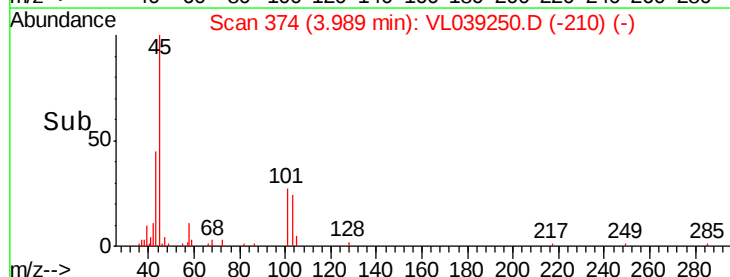
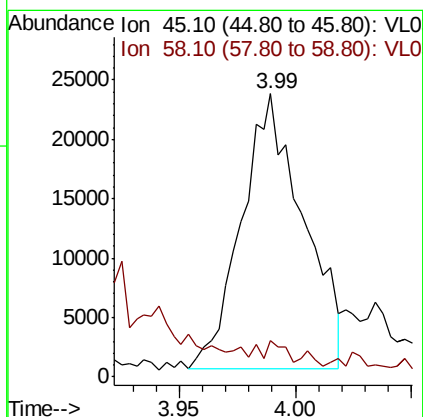
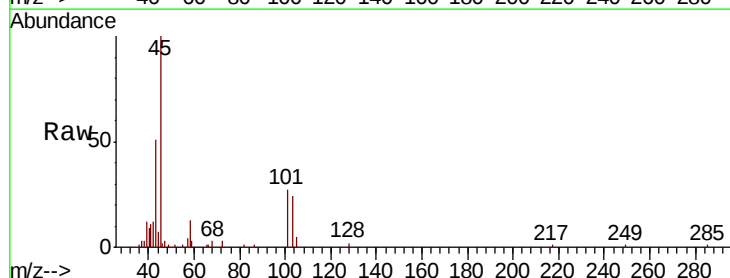
#16
 1,3-Butadiene
 Concen: 0.052 ppbv
 RT: 3.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 9 Jun 2022 1:05

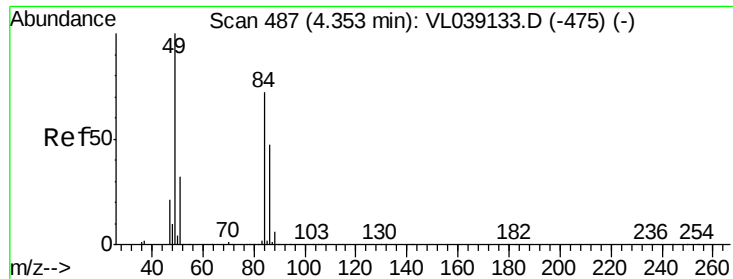
Tot Ion: 39 Resp: 2477
 Ion Ratio Lower Upper
 39 100
 54 29.3 65.8 98.6#



#19
 Isopropyl Alcohol
 Concen: 1.033 ppbv
 RT: 3.99 min Scan# 374
 Delta R.T. 0.03 min
 Lab File: VL039250.D
 Acq: 9 Jun 2022 1:05

Tgt Ion: 45 Resp: 42972
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.8 2.8#

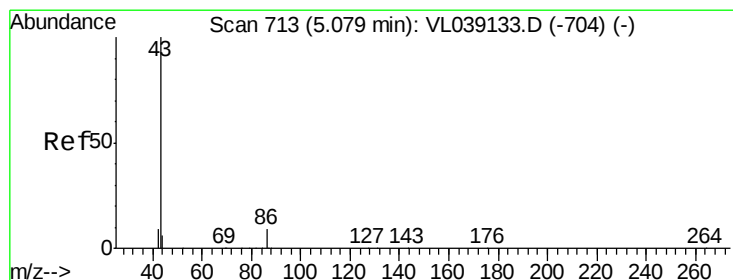
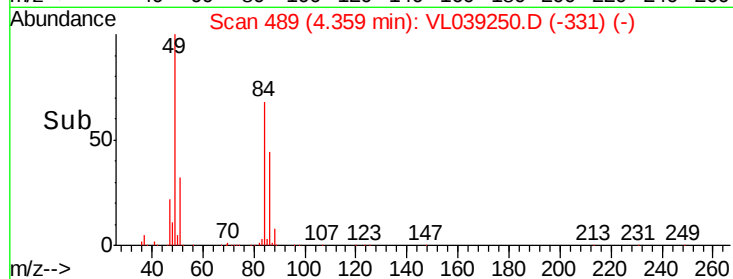
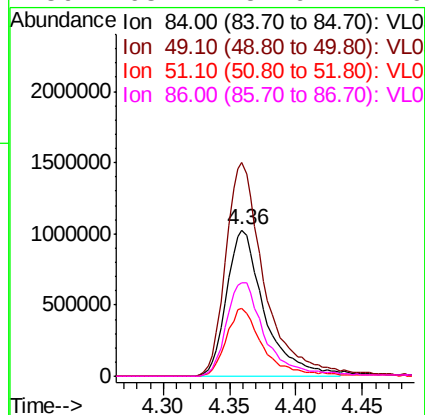
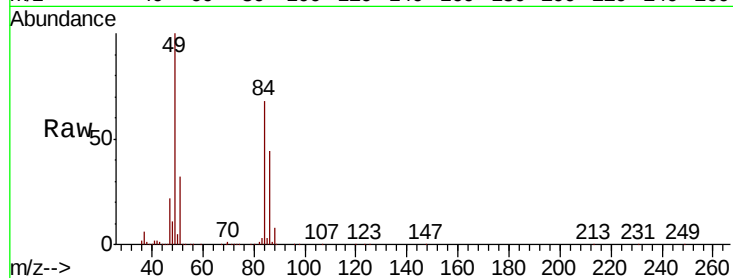




#20
Methvlene Chloride
Concen: 54.489 ppbv
RT: 4.36
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 9 Jun 2022 1:05

Tot Ion: 84 Resp: 2036531

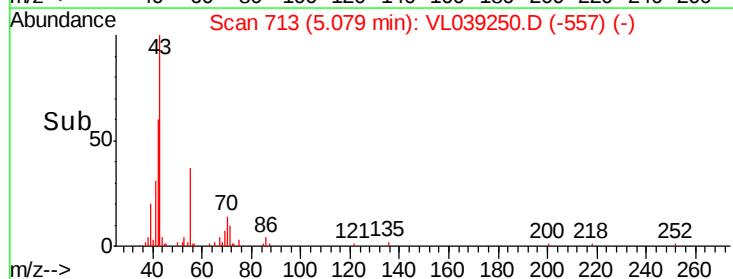
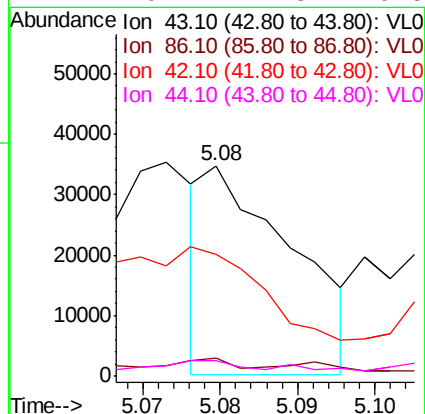
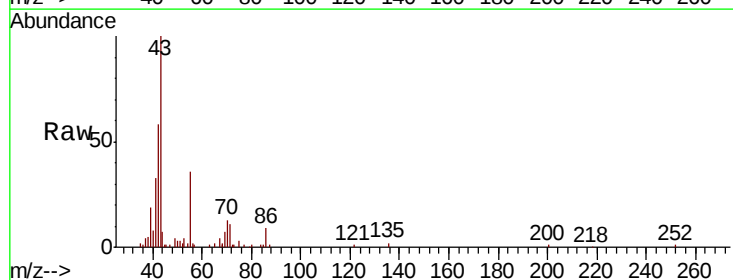
Ion	Ratio	Lower	Upper
84	100		
49	146.2	111.1	166.7
51	46.3	35.3	52.9
86	63.7	51.9	77.9

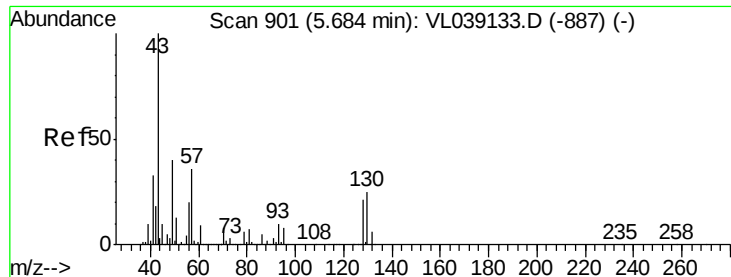


#23
Vinyl Acetate
Concen: 0.373 ppbv
RT: 5.08 min Scan# 713
Delta R.T. 0.00 min
Lab File: VL039250.D
Acq: 9 Jun 2022 1:05

Tgt Ion: 43 Resp: 27370

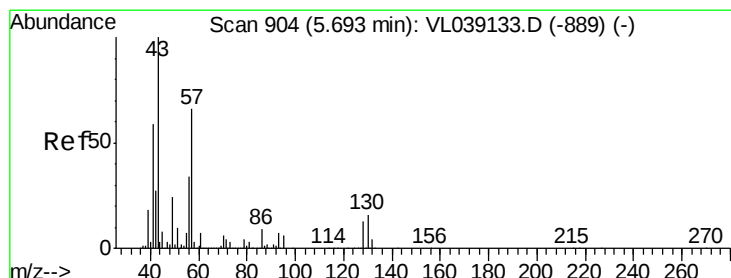
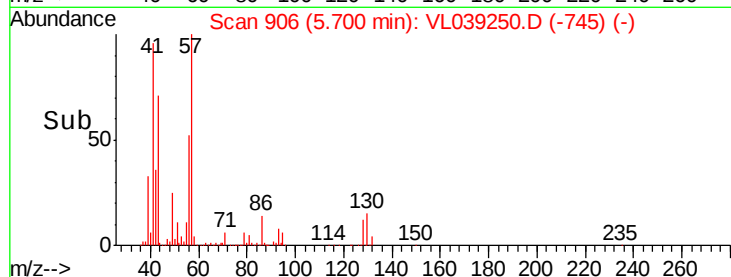
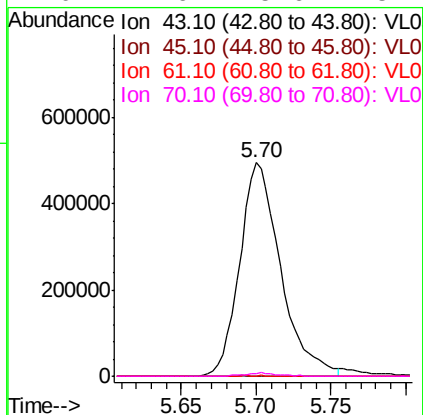
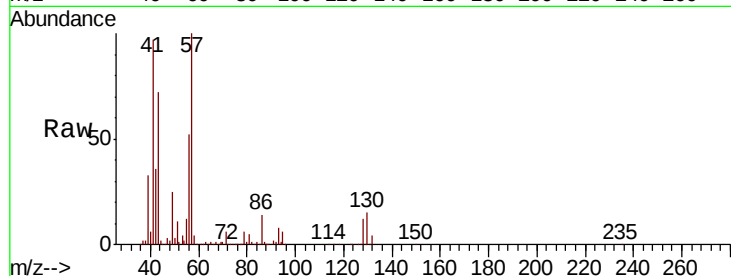
Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.0	9.0
42	70.7	8.2	12.4#
44	6.2	4.3	6.5





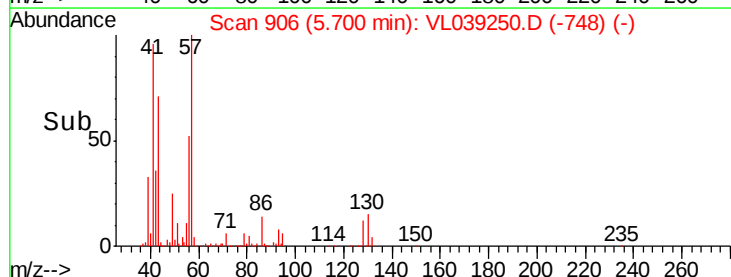
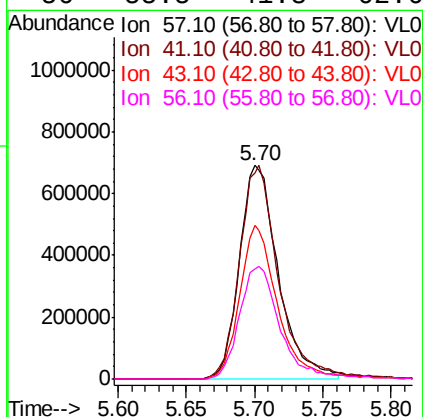
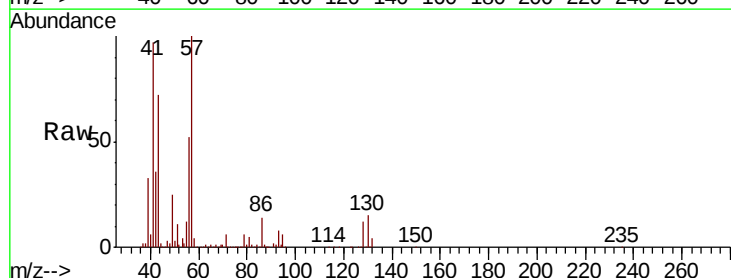
#25
Ethyl Acetate
Concen: 4.704 ppbv
RT: 5.70 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 9 Jun 2022 1:05

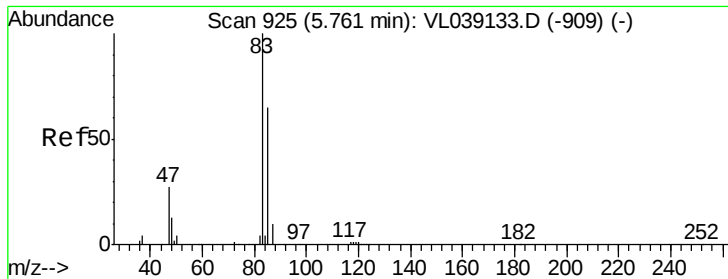
Tot Ion:	43	Resp:	940273
Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.2	12.2#
61	0.4	8.4	12.6#
70	1.6	5.6	8.4#



#26
Hexane
Concen: 15.564 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL039250.D
Acq: 9 Jun 2022 1:05

Tgt Ion:	57	Resp:	1367180
Ion	Ratio	Lower	Upper
57	100		
41	102.2	72.4	108.6
43	71.3	187.0	280.6#
56	55.5	41.8	62.6





#29

Chloroform

Concen: 0.032 ppbv

RT: 5.77 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

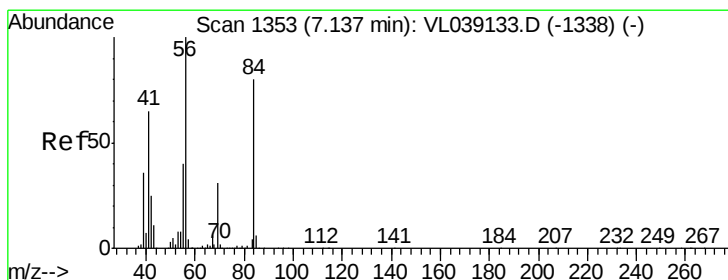
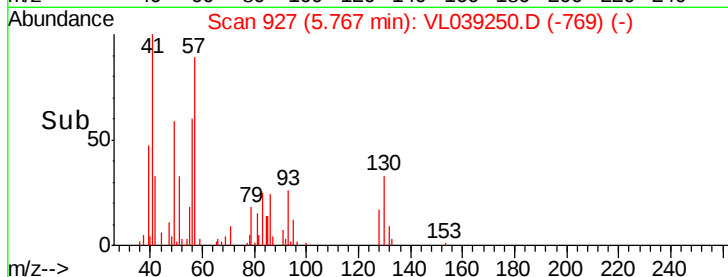
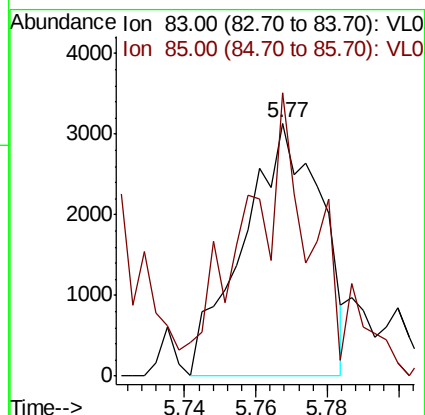
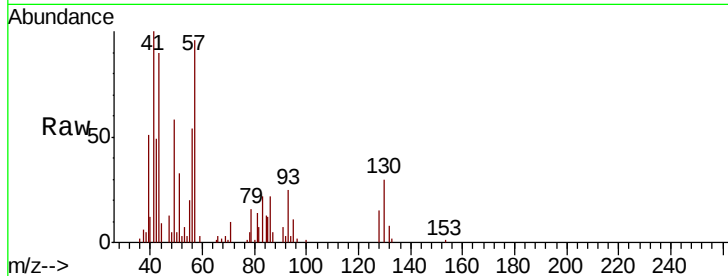
Acq: 9 Jun 2022 1:05

Tot Ion: 83 Resp: 4706

Ion Ratio Lower Upper

83 100

85 105.7 52.4 78.6#



#30

Cyclohexane

Concen: 0.045 ppbv

RT: 7.14 min Scan# 1354

Delta R.T. 0.00 min

Lab File: VL039250.D

Acq: 9 Jun 2022 1:05

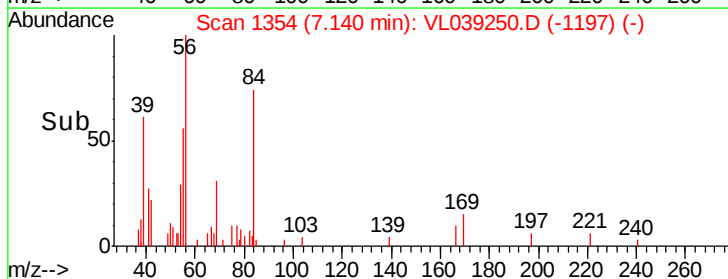
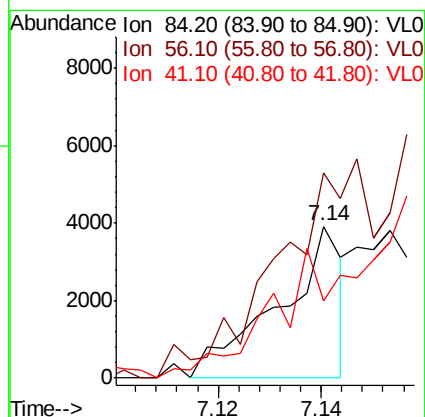
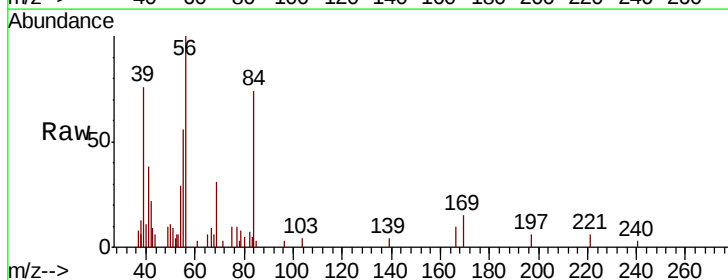
Tgt Ion: 84 Resp: 3327

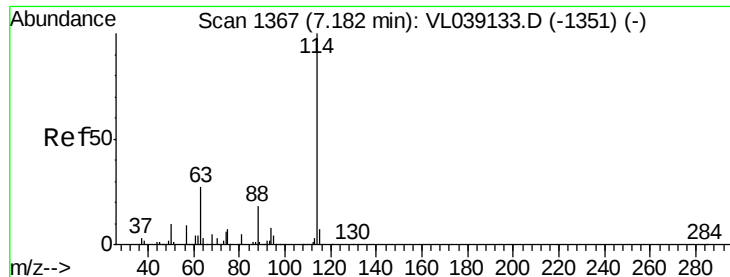
Ion Ratio Lower Upper

84 100

56 0.0 110.6 165.8#

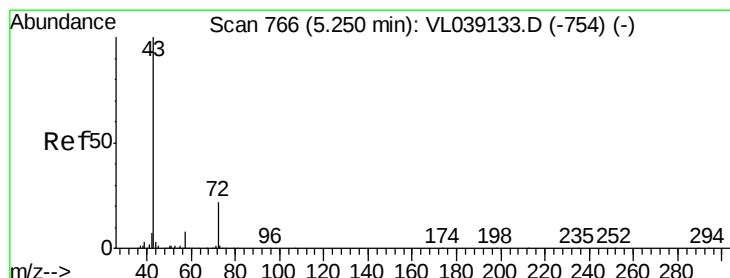
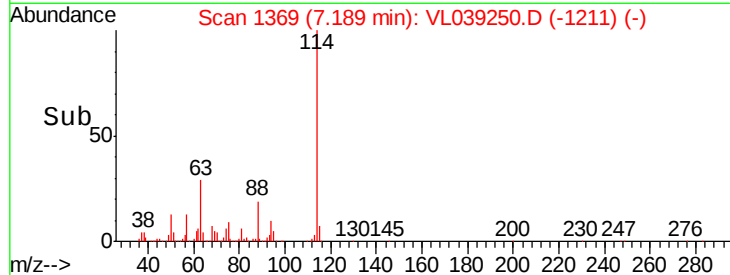
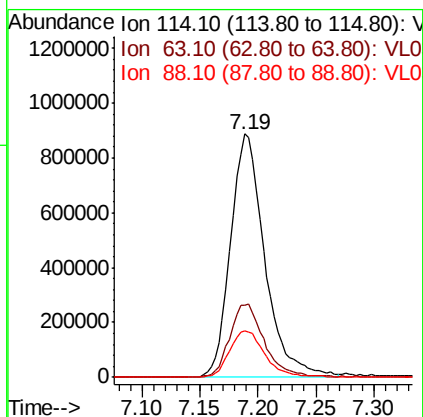
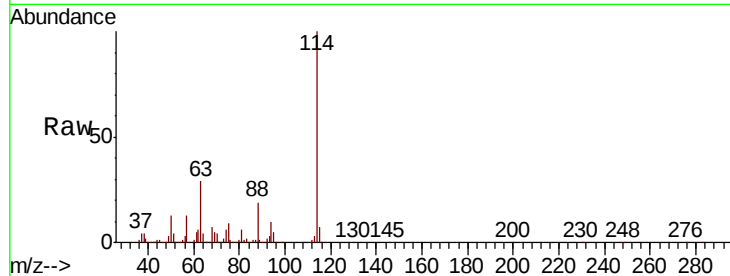
41 0.0 68.9 103.3#





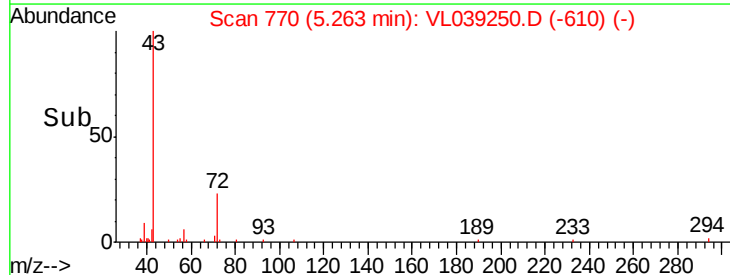
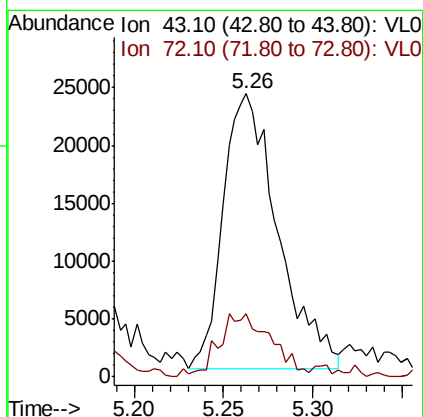
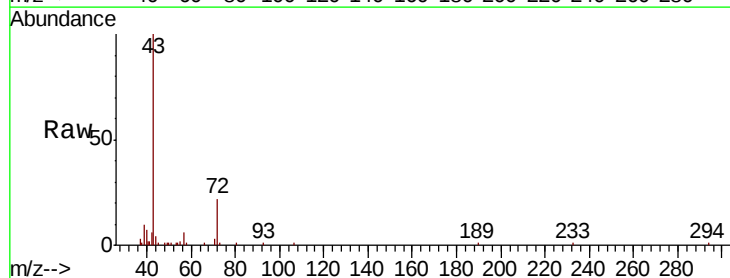
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 9 Jun 2022 1:05

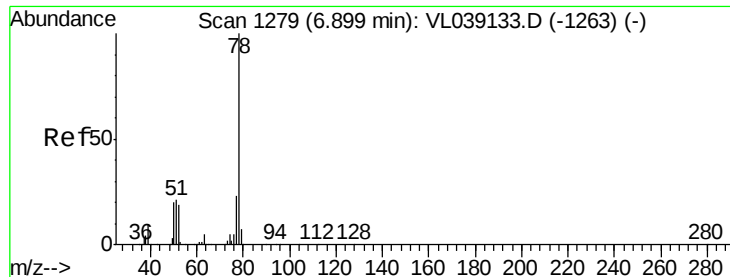
Tot Ion:114 Resp: 1815087
 Ion Ratio Lower Upper
 114 100
 63 31.2 21.7 32.5
 88 19.9 14.8 22.2



#34
 2-Butanone
 Concen: 0.513 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T.: 0.01 min
 Lab File: VL039250.D
 Acq: 9 Jun 2022 1:05

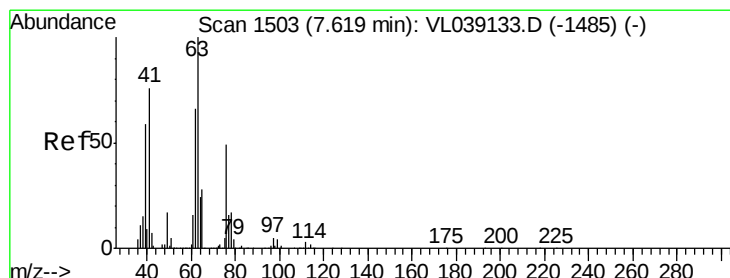
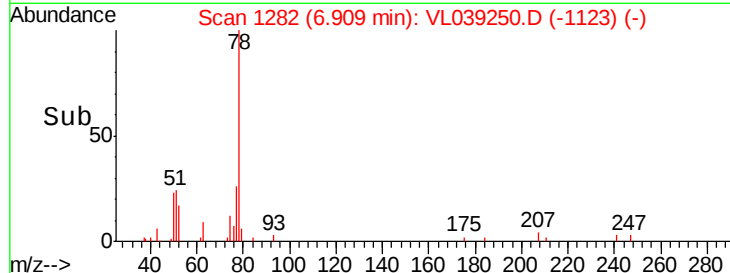
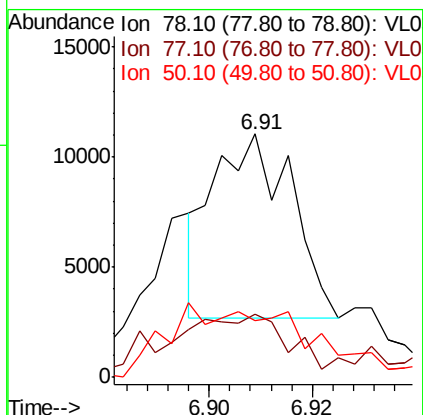
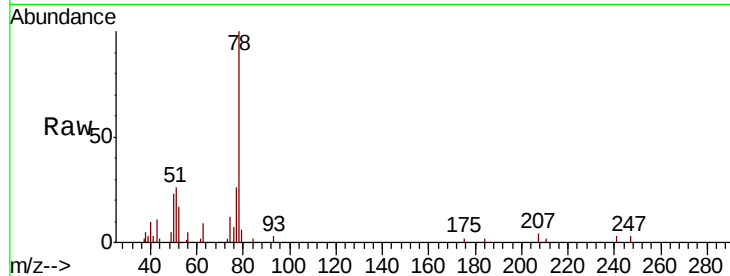
Tgt Ion: 43 Resp: 50623
 Ion Ratio Lower Upper
 43 100
 72 25.0 18.2 27.2





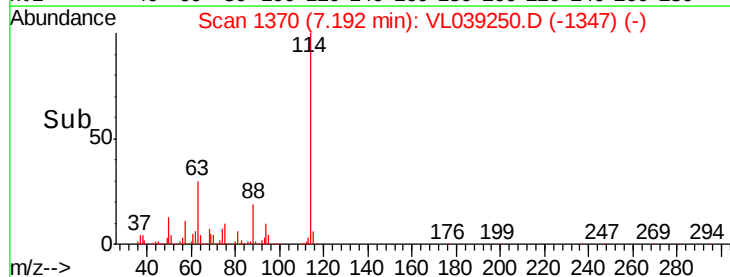
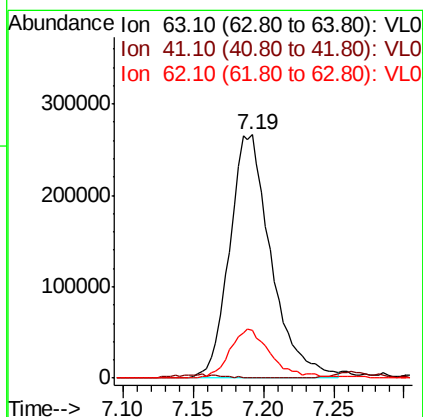
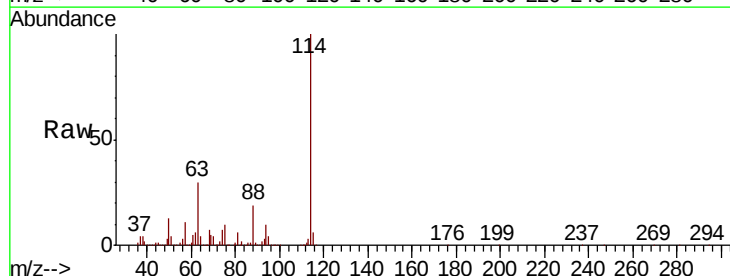
#36
Benzene
Concen: 0.059 ppbv
RT: 6.91
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 9 Jun 2022 1:05

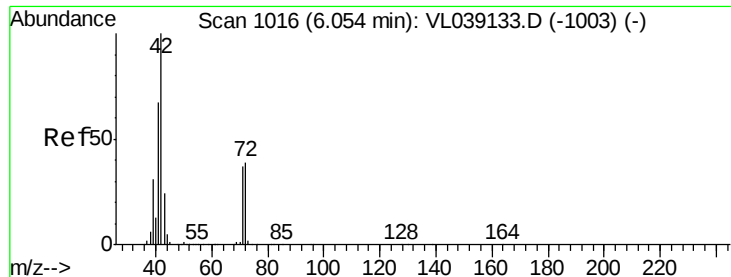
Tot Ion	78	Resp	8725
Ion Ratio	Lower	Upper	
78	100		
77	23.8	18.6	27.8
50	18.6	15.8	23.8



#39
1,2-Dichloropropane
Concen: 9.382 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. -0.43 min
Lab File: VL039250.D
Acq: 9 Jun 2022 1:05

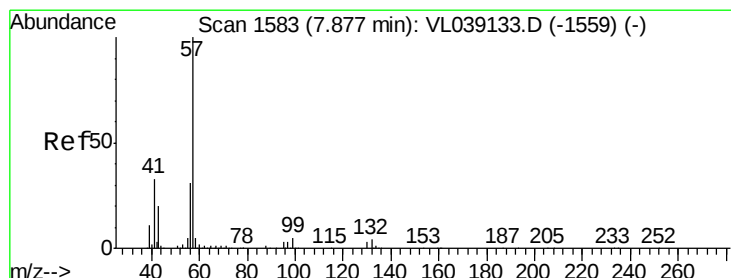
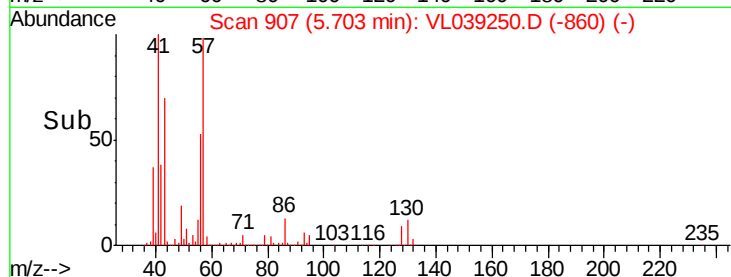
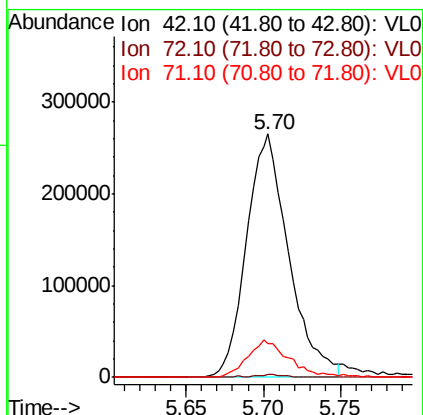
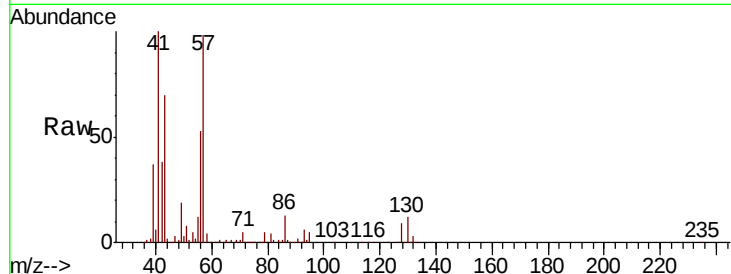
Tgt Ion	63	Resp	549899
Ion Ratio	Lower	Upper	
63	100		
41	0.0	60.8	91.2#
62	19.4	52.9	79.3#





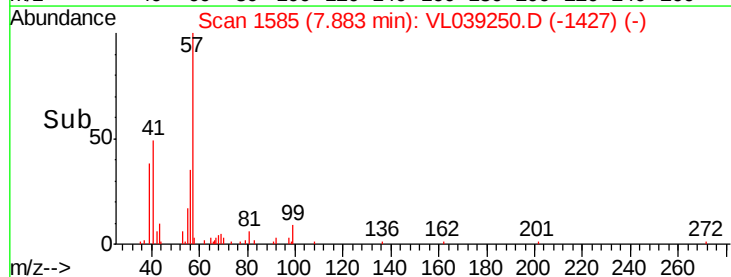
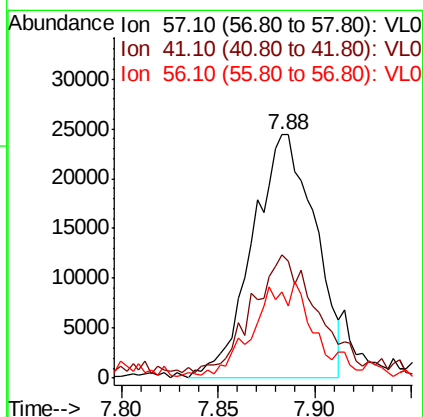
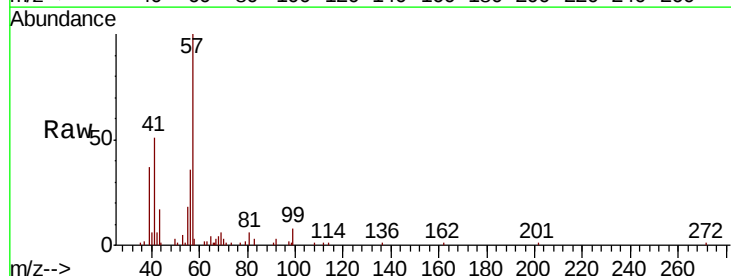
#41
Tetrahydrofuran
Concen: 8.491 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 9 Jun 2022 1:05

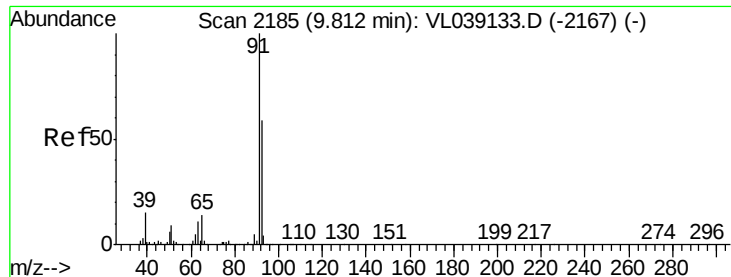
Tot Ion	Ratio	Lower	Upper
42	100		
72	1.1	32.0	48.0#
71	15.5	31.1	46.7#



#44
2,2,4-Trimethylpentane
Concen: 0.212 ppbv
RT: 7.88 min Scan# 1585
Delta R.T. 0.01 min
Lab File: VL039250.D
Acq: 9 Jun 2022 1:05

Tgt Ion	Ratio	Lower	Upper
57	100		
41	59.5	26.2	39.4#
56	41.5	24.7	37.1#





#53

Toluene

Concen: 0.445 ppbv

RT: 9.82 Instrument: MSVOA_1

Delta R.T. 0.01 min

Lab File: ClientSampleId:

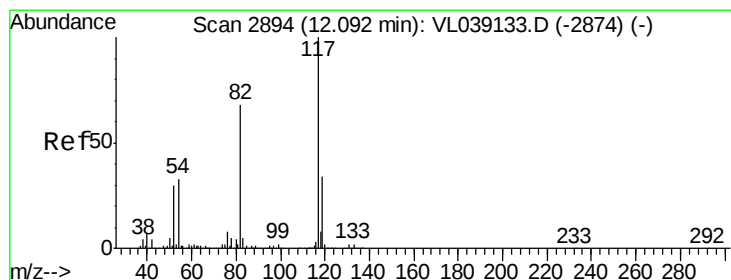
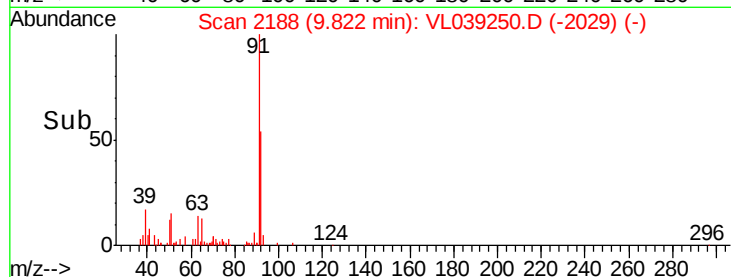
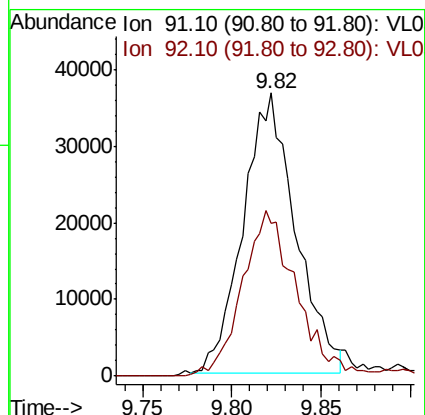
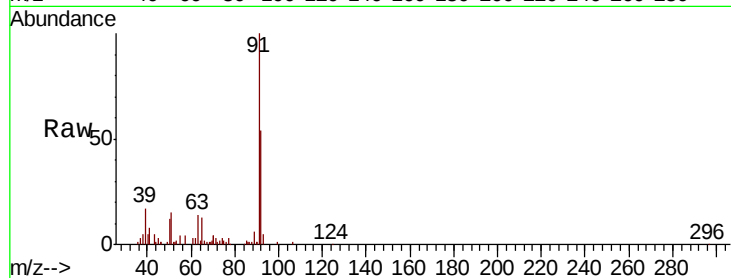
Acq: 9 Jun 2022 1:05

Tot Ion: 91 Resp: 75562

Ion Ratio Lower Upper

91 100

92 60.2 48.1 72.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. 0.01 min

Lab File: VL039250.D

Acq: 9 Jun 2022 1:05

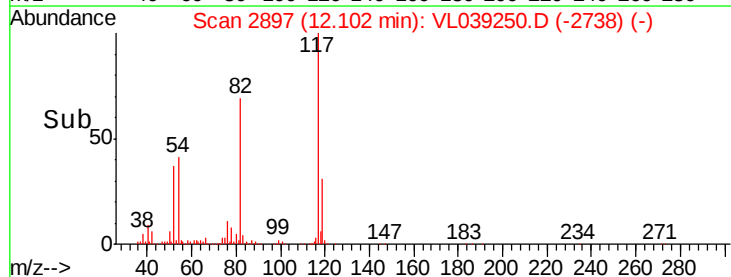
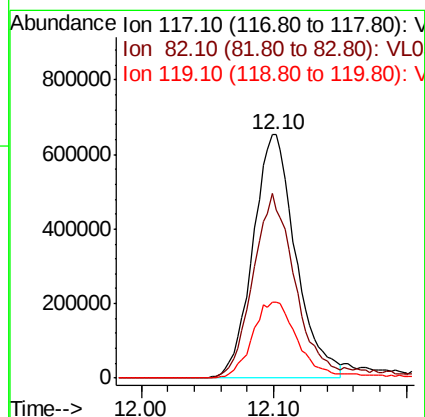
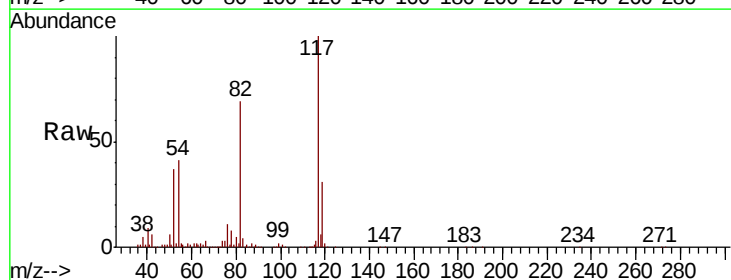
Tgt Ion: 117 Resp: 1467931

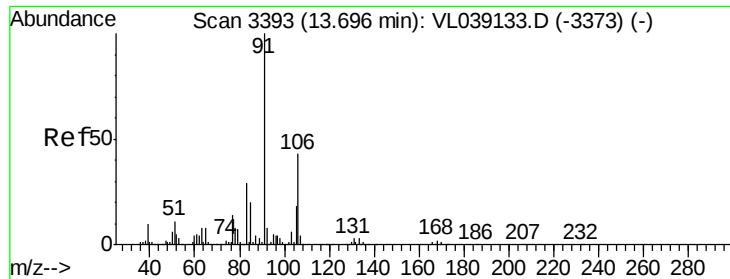
Ion Ratio Lower Upper

117 100

82 80.7 55.1 82.7

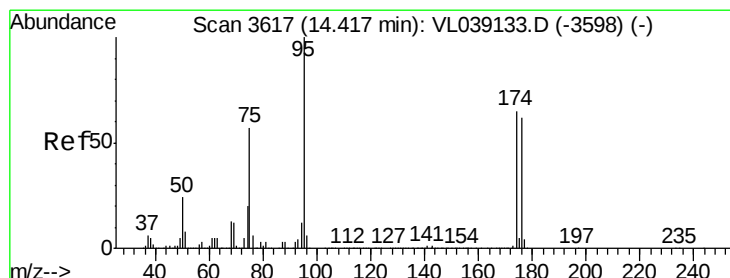
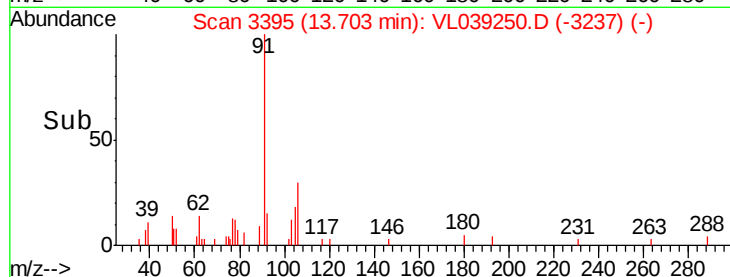
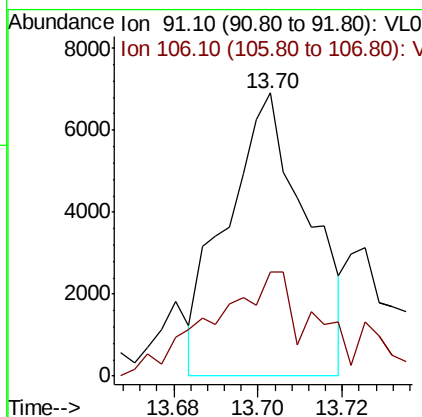
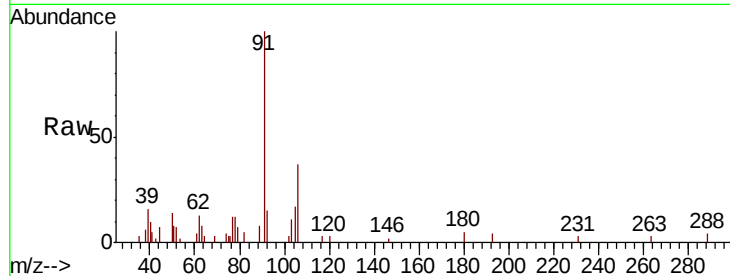
119 34.4 24.7 37.1





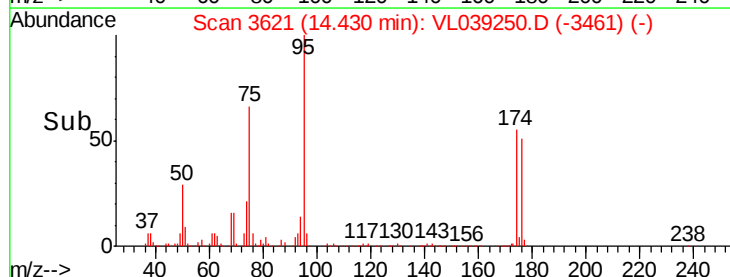
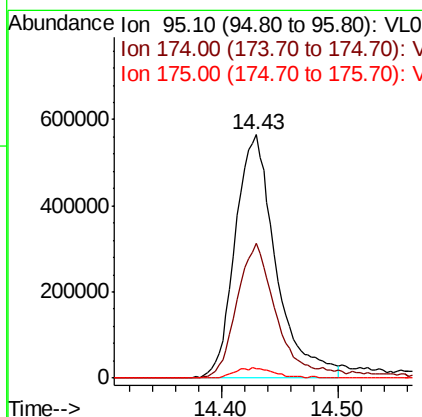
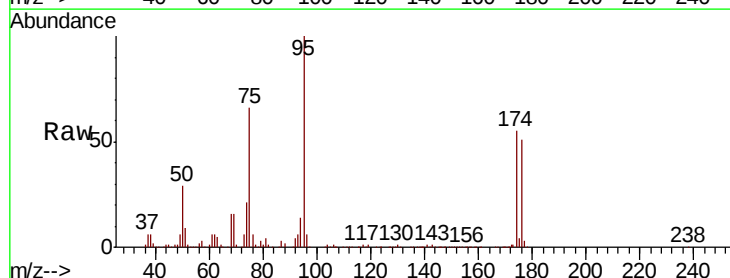
#60
o-Xylene
Concen: 0.055 ppbv
RT: 13.70 min
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 9 Jun 2022 1:05

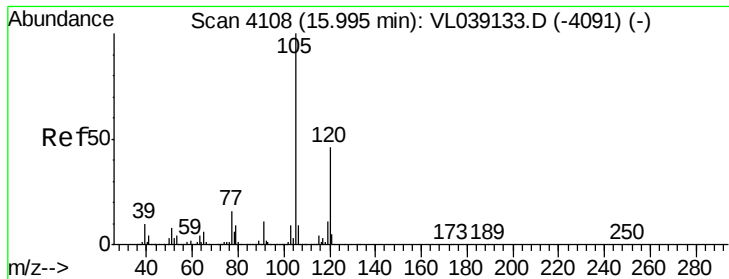
Tot Ion: 91 Resp: 9155
Ion Ratio Lower Upper
91 100
106 56.8 22.3 66.9



#68
1-Bromo-4-Fluorobenzene
Concen: 11.385 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. 0.01 min
Lab File: VL039250.D
Acq: 9 Jun 2022 1:05

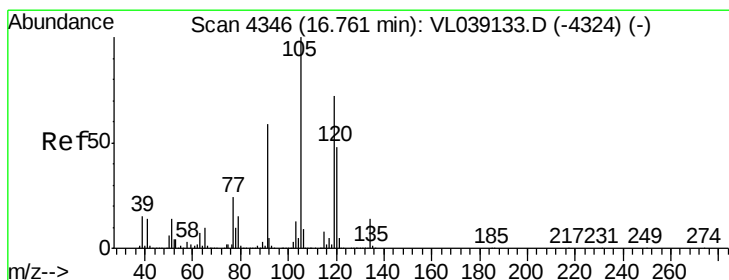
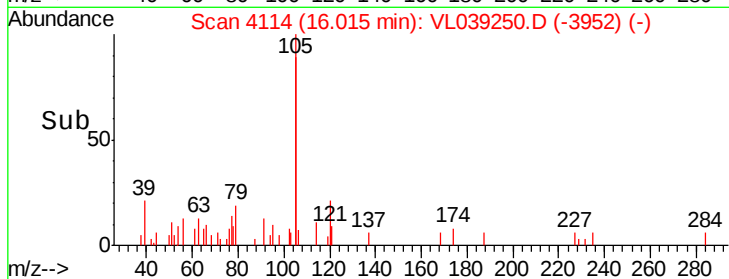
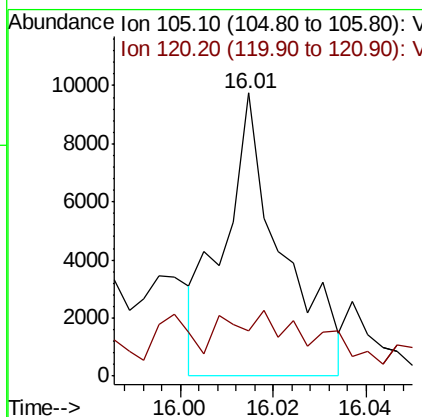
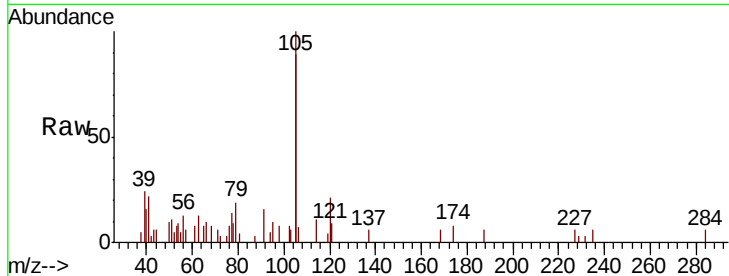
Tgt Ion: 95 Resp: 1381647
Ion Ratio Lower Upper
95 100
174 58.1 53.8 80.8
175 4.1 4.1 6.1





#73
 1,3,5-Trimethylbenzene
 Concen: 0.048 ppbv
 RT: 16.01 min
 Delta R.T. 0.01 min
 Lab File: VL039250.D
 Acq: 9 Jun 2022 1:05

Tot Ion: 105 Resp: 8419
 Ion Ratio Lower Upper
 105 100
 120 0.5 36.7 55.1#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.072 ppbv
 RT: 16.77 min Scan# 4350
 Delta R.T. 0.01 min
 Lab File: VL039250.D
 Acq: 9 Jun 2022 1:05

Tgt Ion: 105 Resp: 14189
 Ion Ratio Lower Upper
 105 100
 120 37.3 38.1 57.1#
 91 9.0 47.4 71.0#
 77 16.3 19.5 29.3#

