

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061522\
 Data File : VL039303.D
 Acq On : 15 Jun 2022 19:55
 Operator : SY/AP
 Sample : N3326-03DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Jun 16 04:35:33 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	5.65	49	1295602	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3628989	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3225026	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2525830	9.47	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.70%

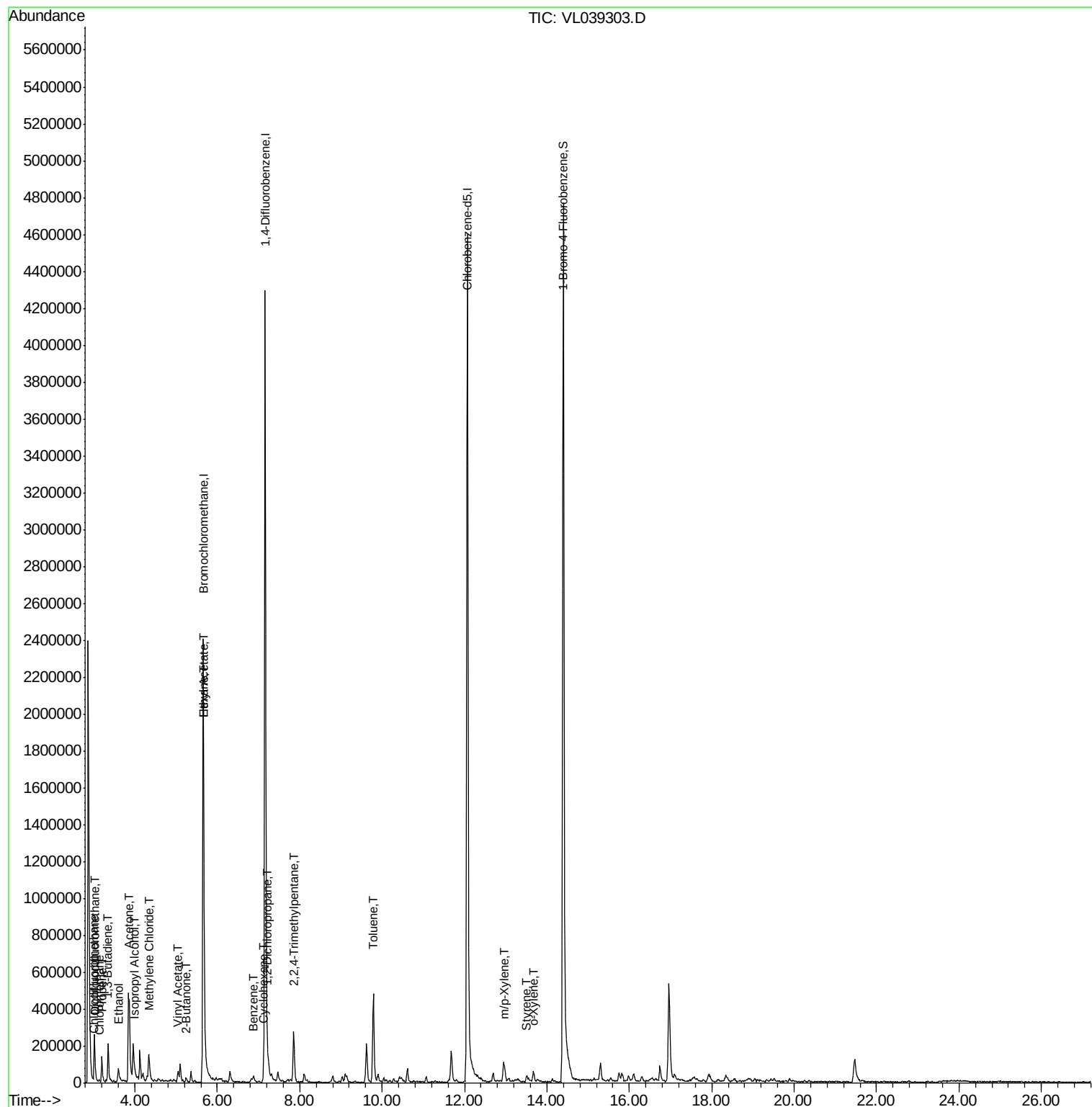
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	16903	0.074	ppbv #	76
3) Chlorodifluoromethane	2.98	51	16406	0.100	ppbv #	89
4) Chloromethane	3.14	50	5273	0.062	ppbv	96
9) Propene	3.20	41	41968	0.584	ppbv	96
13) Ethanol	3.60	45	87670	22.364	ppbv #	100
15) Acetone	3.84	43	748412	5.545	ppbv	90
16) 1,3-Butadiene	3.35	39	29029	0.400	ppbv #	13
19) Isopropyl Alcohol	4.00	45	25903	0.409	ppbv #	93
20) Methylene Chloride	4.34	84	22176	0.390	ppbv	97
23) Vinyl Acetate	5.05	43	21004	0.188	ppbv #	1
25) Ethyl Acetate	5.68	43	57338	0.188	ppbv #	79
26) Hexane	5.68	57	80217	0.600	ppbv #	37
30) Cyclohexane	7.11	84	4649	0.041	ppbv #	1
34) 2-Butanone	5.24	43	14892	0.076	ppbv #	39
36) Benzene	6.88	78	22386	0.076	ppbv #	93
39) 1,2-Dichloropropane	7.22	63	9009	0.077	ppbv #	17
44) 2,2,4-Trimethylpentane	7.85	57	261280	0.507	ppbv	93
53) Toluene	9.79	91	179946	0.530	ppbv	99
59) m/p-Xylene	12.97	91	40415	0.103	ppbv #	33
60) o-Xylene	13.67	91	24229	0.066	ppbv #	31
61) Styrene	13.51	104	7912	0.040	ppbv #	1

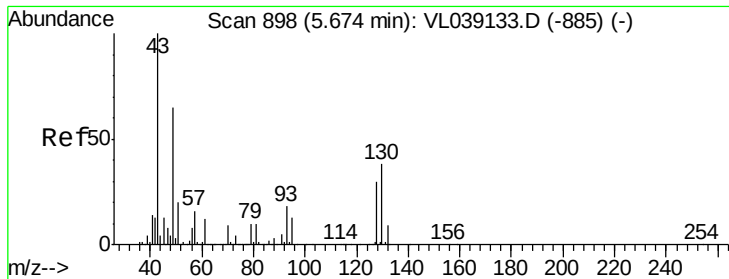
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA1DL

Acq: 15 Jun 2022 19:55

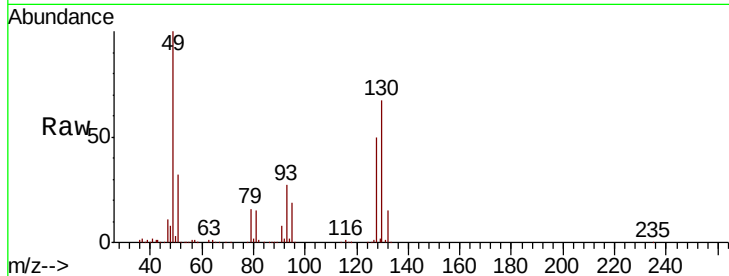
Tot Ion: 49 Resp: 1295602

Ion Ratio Lower Upper

49 100

128 54.5 24.7 74.1

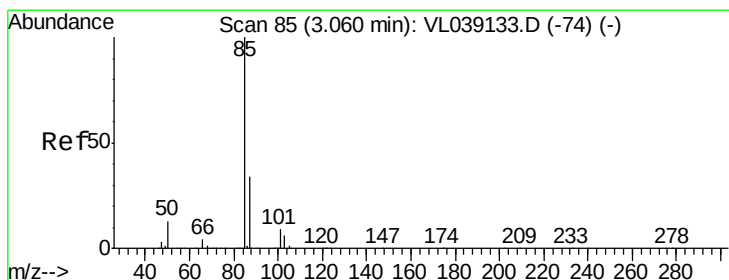
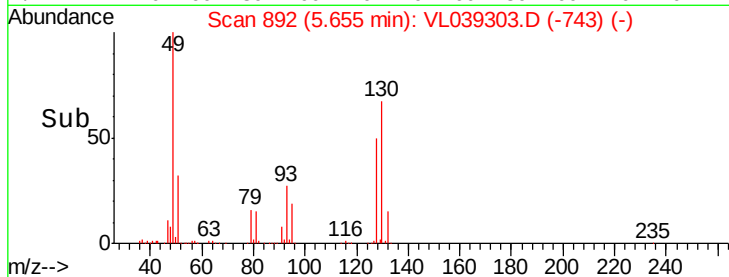
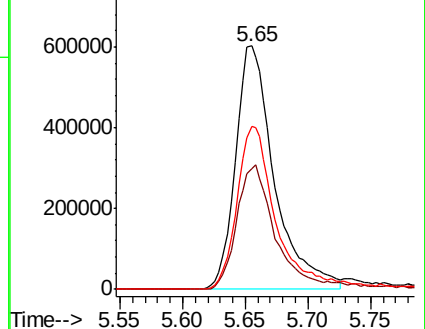
130 70.6 31.4 94.0



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: 0.074 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.02 min

Lab File: VL039303.D

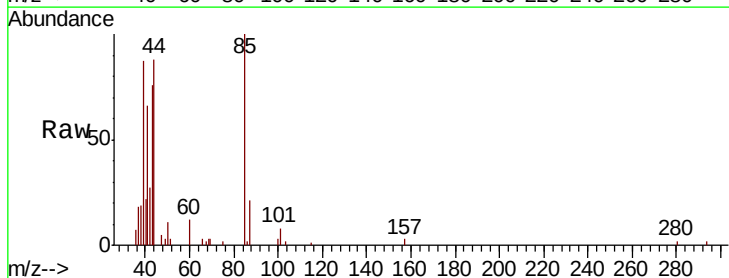
Acq: 15 Jun 2022 19:55

Tgt Ion: 85 Resp: 16903

Ion Ratio Lower Upper

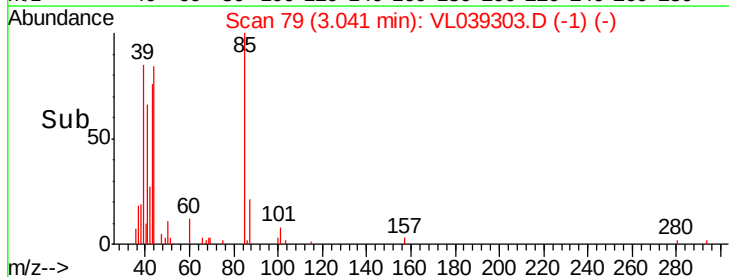
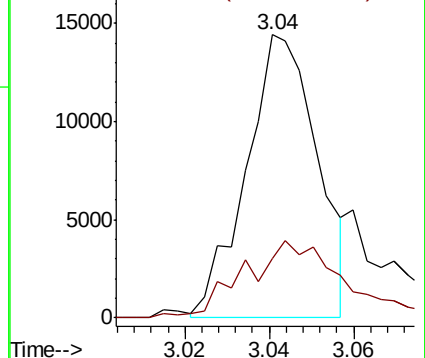
85 100

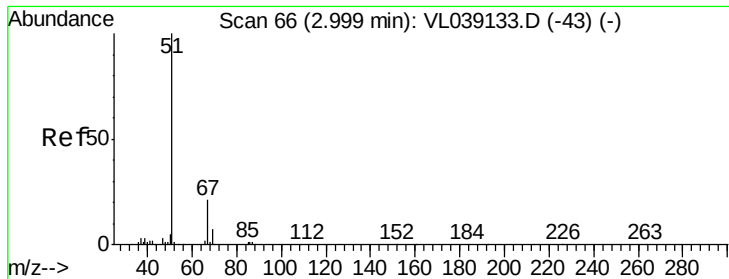
87 19.8 26.9 40.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.100 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

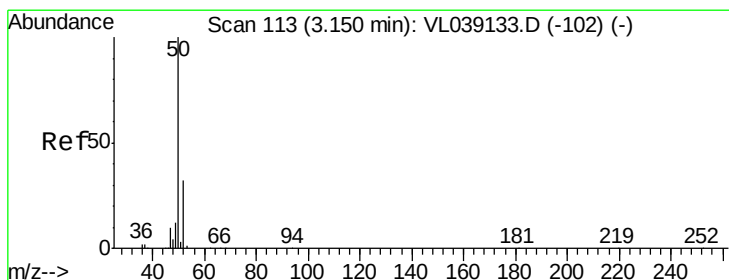
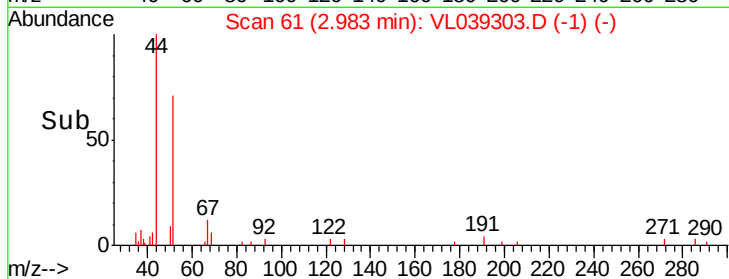
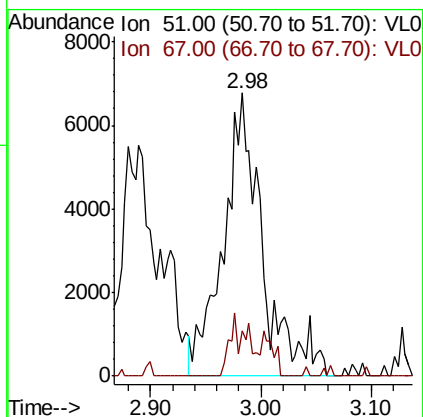
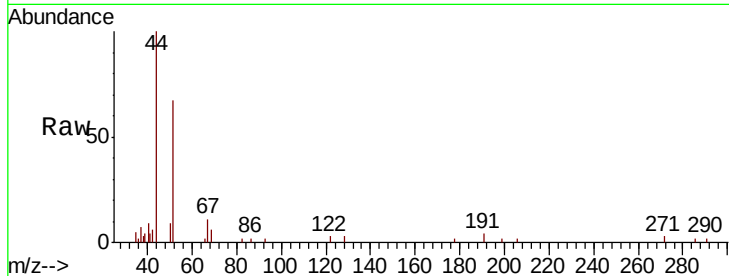
Acq: 15 Jun 2022 19:55

Tot Ion: 51 Resp: 16406

Ion Ratio Lower Upper

51 100

67 15.1 16.2 24.4#



#4

Chloromethane

Concen: 0.062 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.01 min

Lab File: VL039303.D

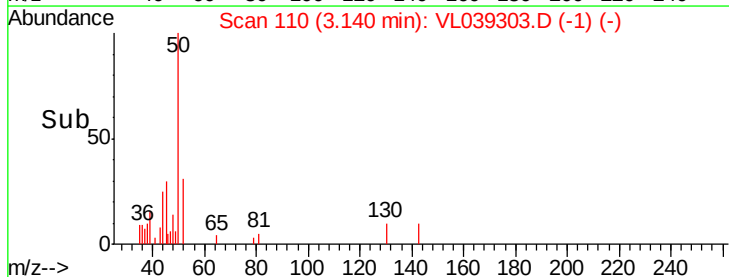
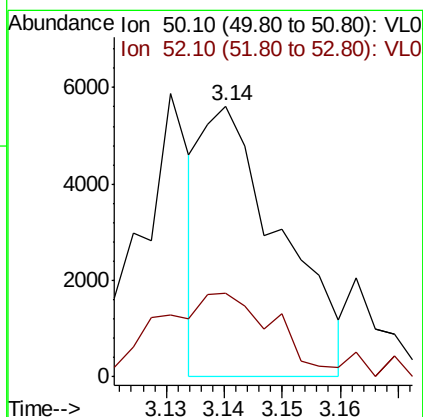
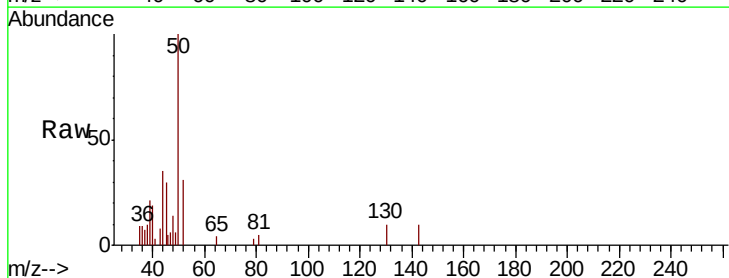
Acq: 15 Jun 2022 19:55

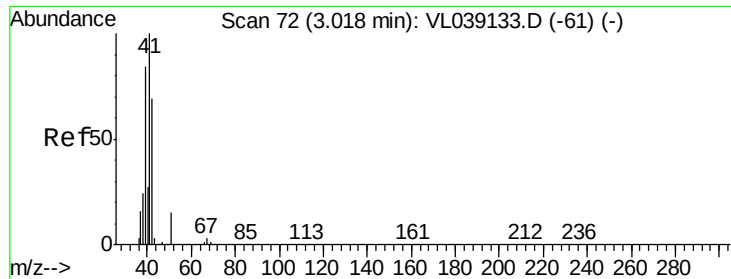
Tgt Ion: 50 Resp: 5273

Ion Ratio Lower Upper

50 100

52 34.4 25.9 38.9





#9

Propene

Concen: 0.584 ppbv

RT: 3.20 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

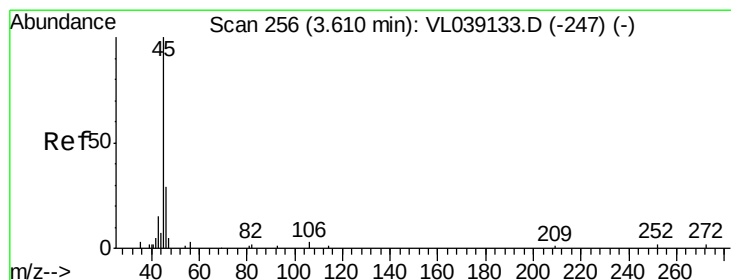
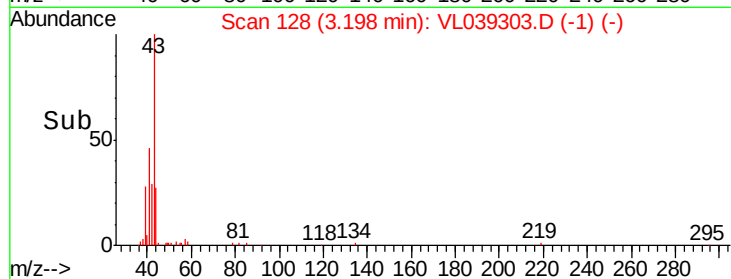
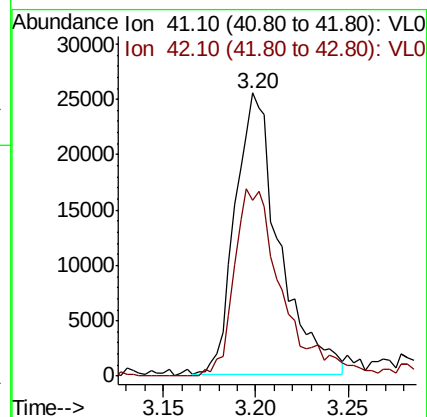
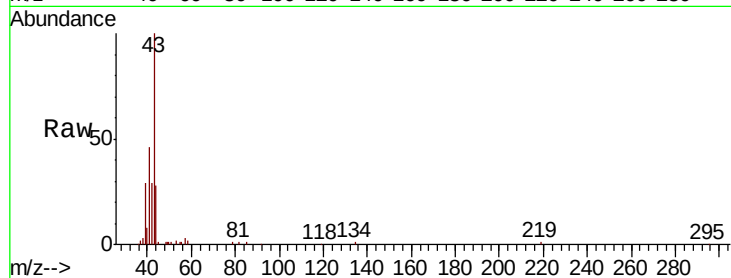
Acq: 15 Jun 2022 19:55

Tot Ion: 41 Resp: 41968

Ion Ratio Lower Upper

41 100

42 72.3 55.4 83.2



#13

Ethanol

Concen: 22.364 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL039303.D

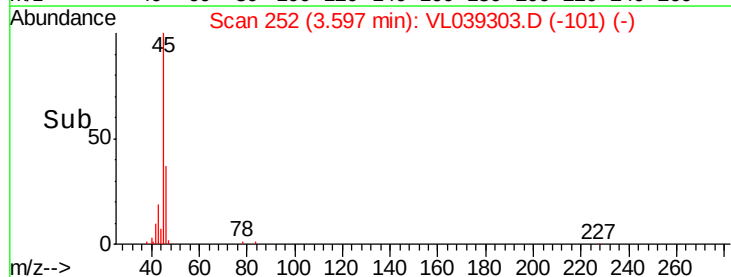
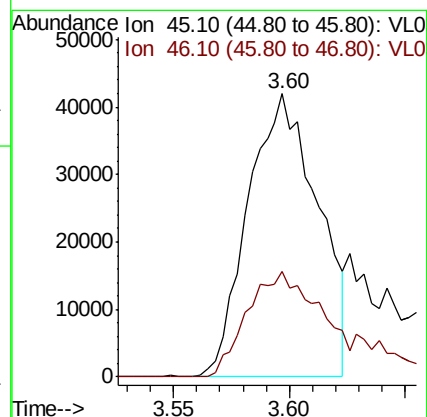
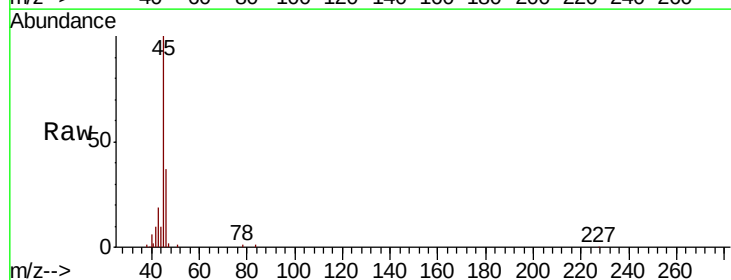
Acq: 15 Jun 2022 19:55

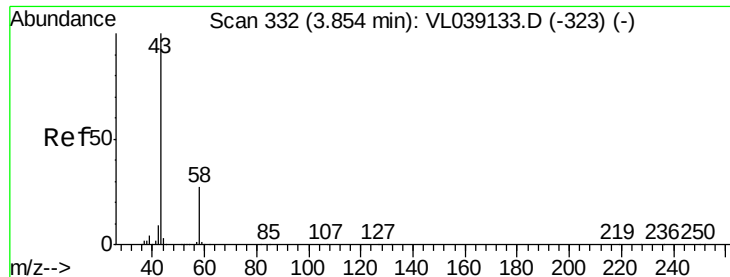
Tgt Ion: 45 Resp: 87670

Ion Ratio Lower Upper

45 100

46 52.7 0.0 0.0#





#15

Acetone

Concen: 5.545 ppbv

RT: 3.84 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

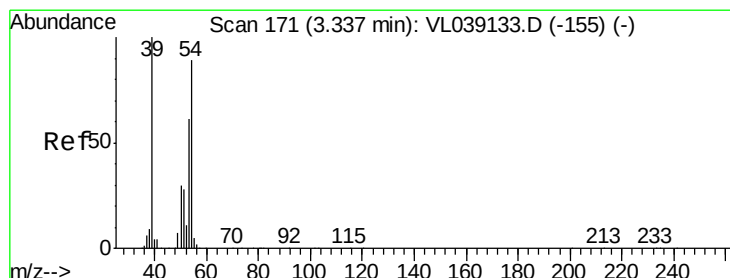
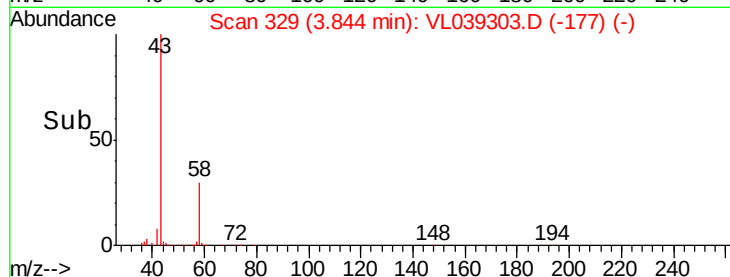
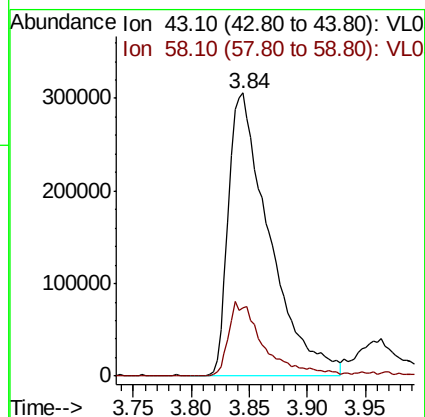
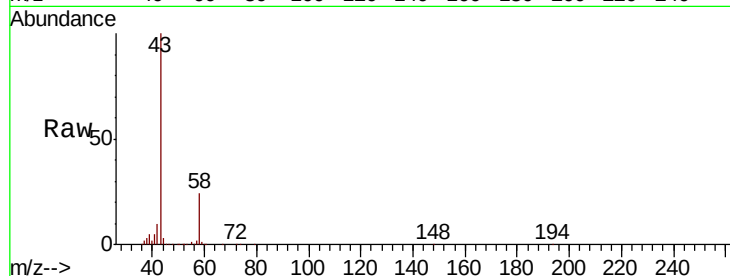
Acq: 15 Jun 2022 19:55

Tot Ion: 43 Resp: 748412

Ion Ratio Lower Upper

43 100

58 22.7 22.5 33.7



#16

1,3-Butadiene

Concen: 0.400 ppbv

RT: 3.35 min Scan# 176

Delta R.T. 0.02 min

Lab File: VL039303.D

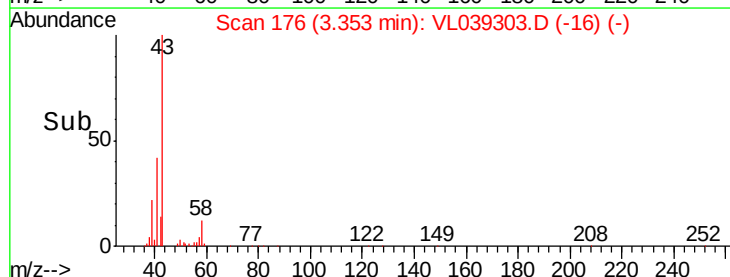
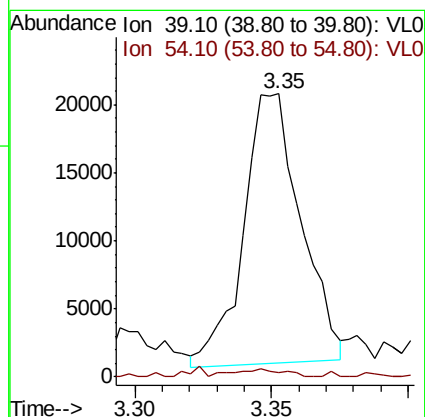
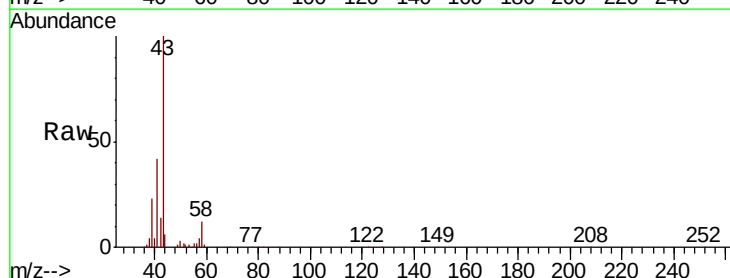
Acq: 15 Jun 2022 19:55

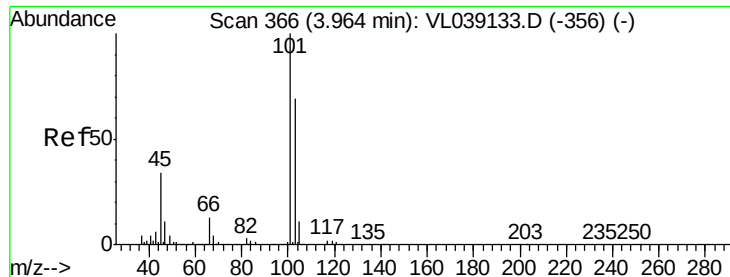
Tgt Ion: 39 Resp: 29029

Ion Ratio Lower Upper

39 100

54 4.0 65.8 98.6#





#19

Isopropyl Alcohol

Concen: 0.409 ppbv

RT: 4.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

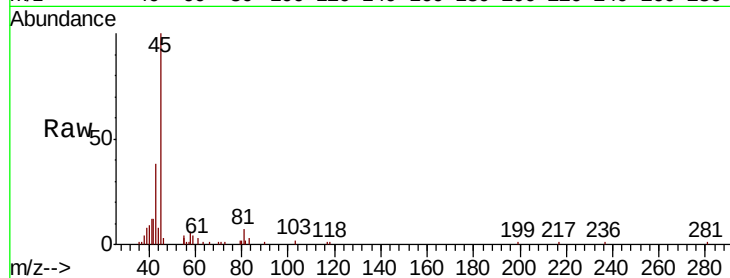
Acq: 15 Jun 2022 19:55

Tot Ion: 45 Resp: 25903

Ion Ratio Lower Upper

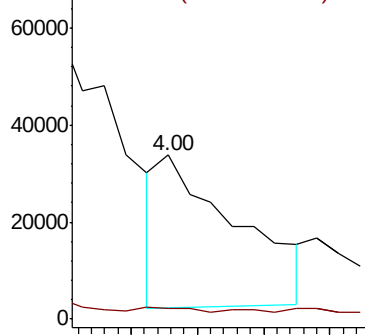
45 100

58 0.0 1.8 2.8#

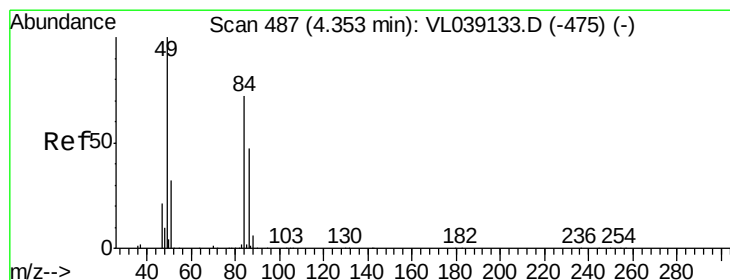
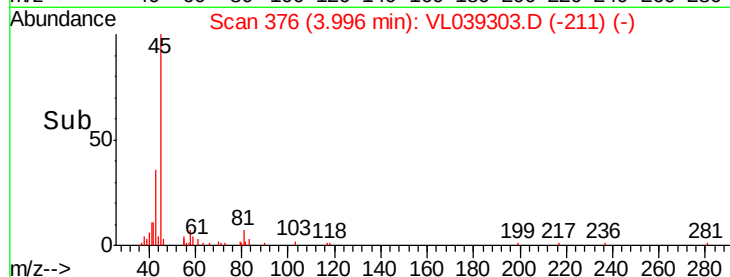


Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



Time-->



#20

Methylene Chloride

Concen: 0.390 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL039303.D

Acq: 15 Jun 2022 19:55

Tgt Ion: 84 Resp: 22176

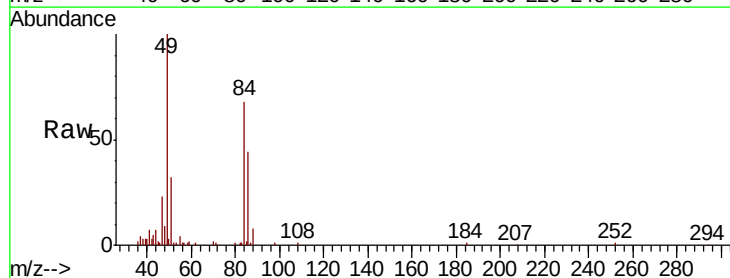
Ion Ratio Lower Upper

84 100

49 138.9 111.1 166.7

51 43.7 35.3 52.9

86 55.4 51.9 77.9

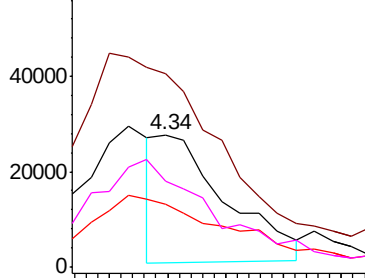


Abundance Ion 84.00 (83.70 to 84.70): VL0

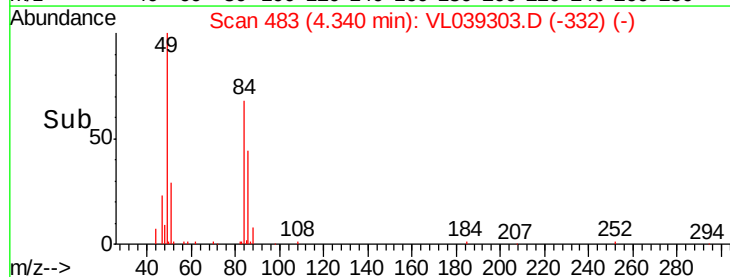
Ion 49.10 (48.80 to 49.80): VL0

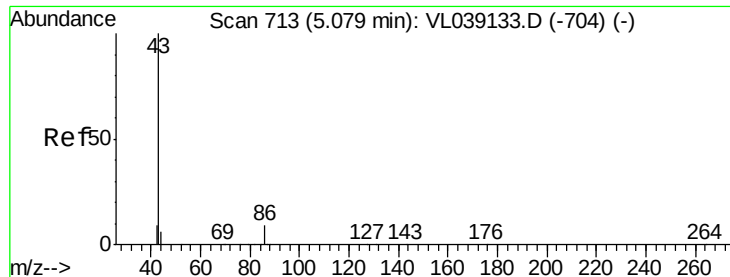
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



Time-->





#23

Vinyl Acetate

Concen: 0.188 ppbv

RT: 5.05 Instrument:

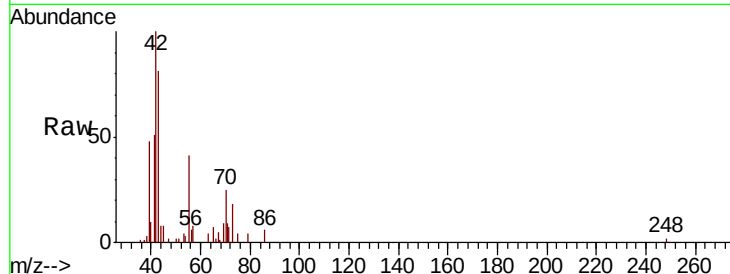
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 15 Jun 2022 19:55

Tot Ion: 43 Resp: 21004

Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.0	9.0
42	128.7	8.2	12.4#
44	4.7	4.3	6.5

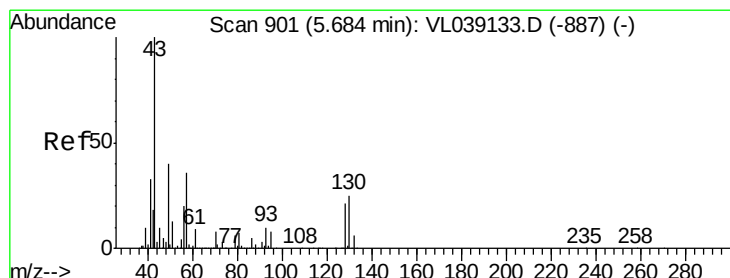
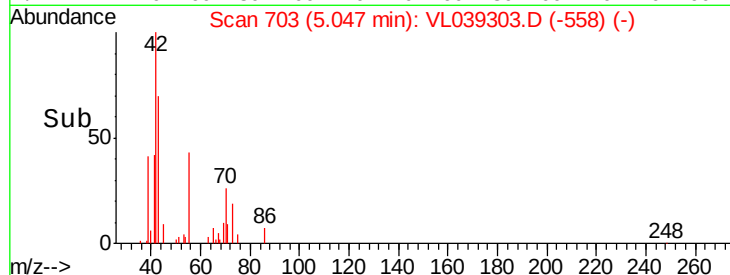
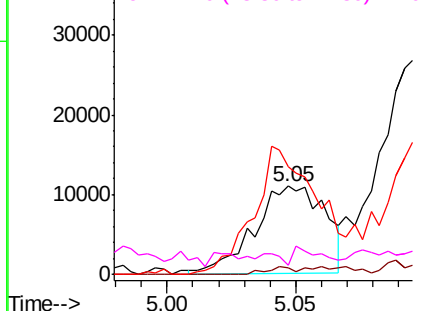


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.188 ppbv

RT: 5.68 min Scan# 899

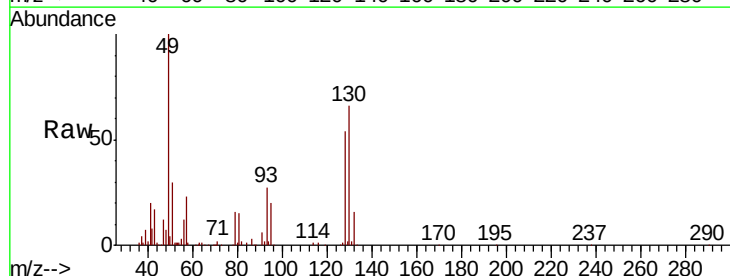
Delta R.T. -0.01 min

Lab File: VL039303.D

Acq: 15 Jun 2022 19:55

Tgt Ion: 43 Resp: 57338

Ion	Ratio	Lower	Upper
43	100		
45	2.5	8.2	12.2#
61	0.5	8.4	12.6#
70	2.8	5.6	8.4#

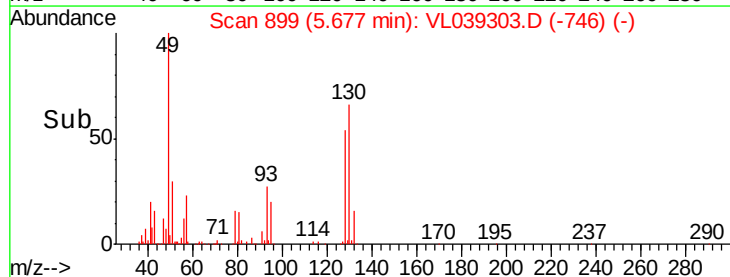
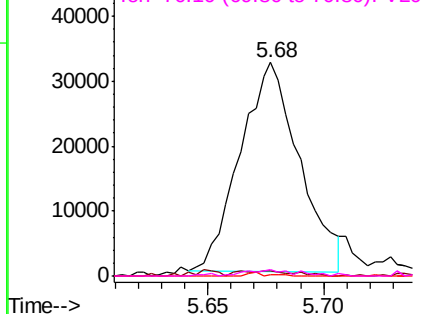


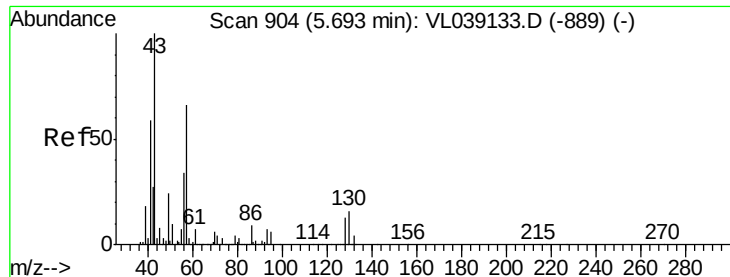
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

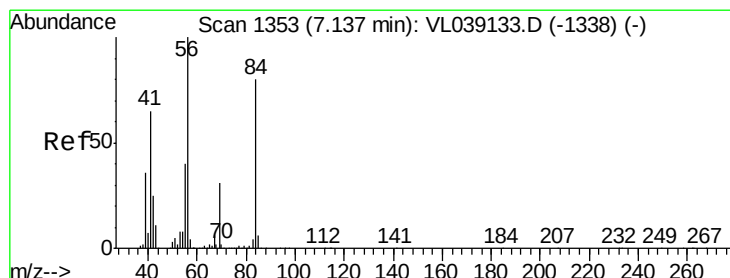
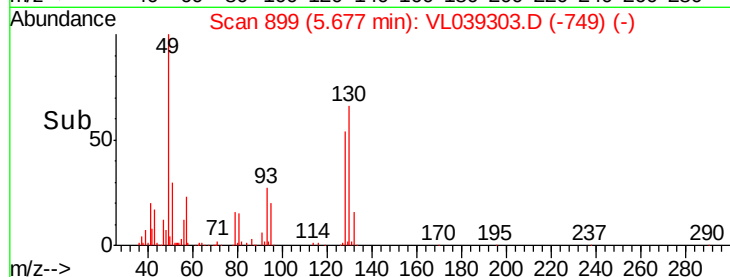
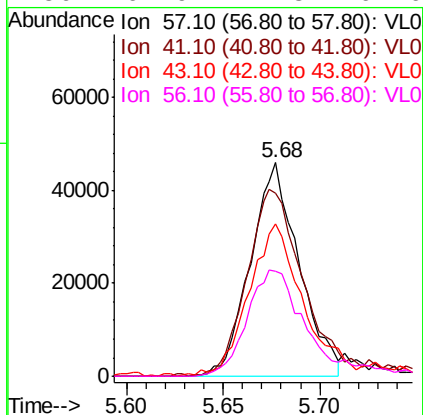
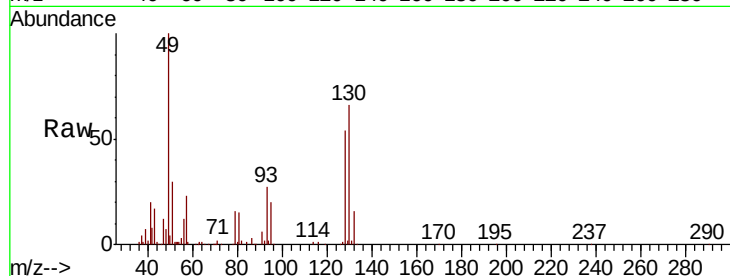
Ion 70.10 (69.80 to 70.80): VL0





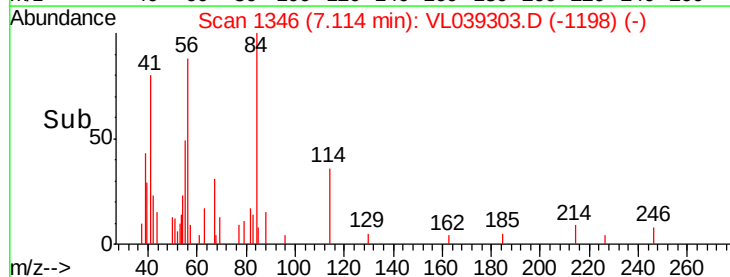
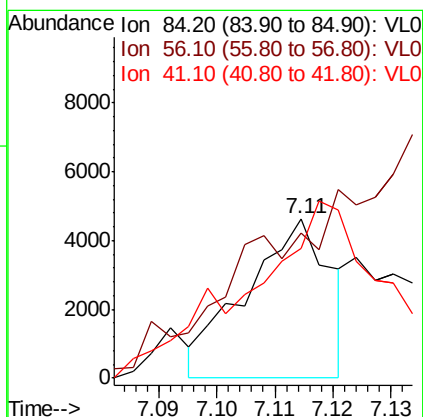
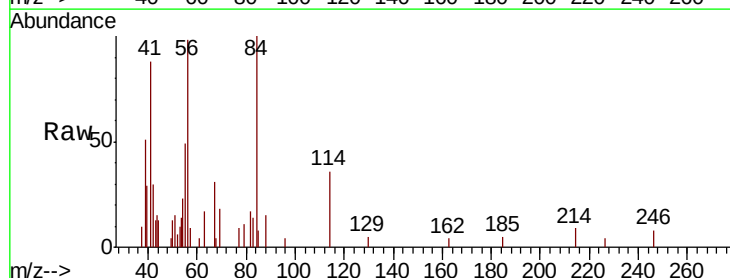
#26
Hexane
Concen: 0.600 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Jun 2022 19:55

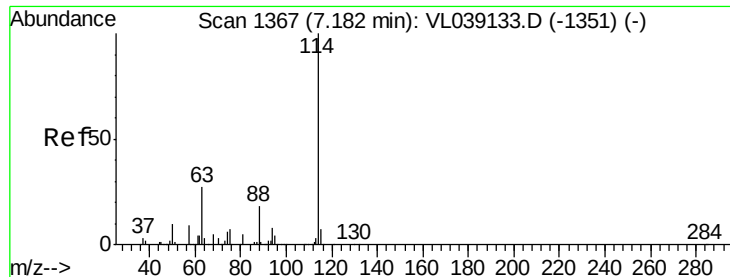
Tot Ion:	57	Resp:	80217
Ion	Ratio	Lower	Upper
57	100		
41	108.1	72.4	108.6
43	83.6	187.0	280.6#
56	64.9	41.8	62.6#



#30
Cyclohexane
Concen: 0.041 ppbv
RT: 7.11 min Scan# 1346
Delta R.T. -0.02 min
Lab File: VL039303.D
Acq: 15 Jun 2022 19:55

Tgt Ion:	84	Resp:	4649
Ion	Ratio	Lower	Upper
84	100		
56	0.0	110.6	165.8#
41	236.0	68.9	103.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 15 Jun 2022 19:55

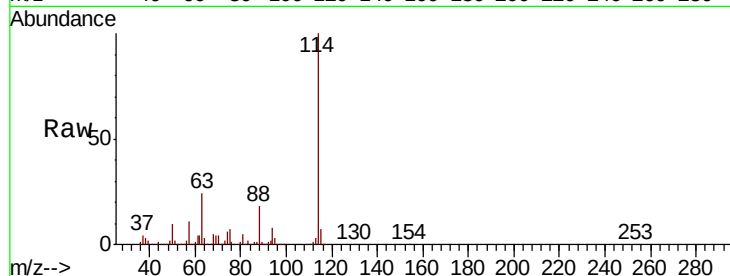
Tot Ion:114 Resp: 3628989

Ion Ratio Lower Upper

114 100

63 25.2 21.7 32.5

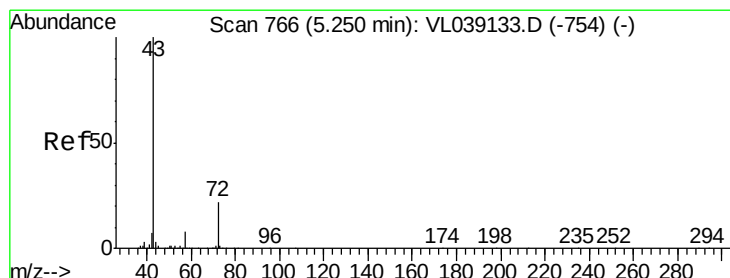
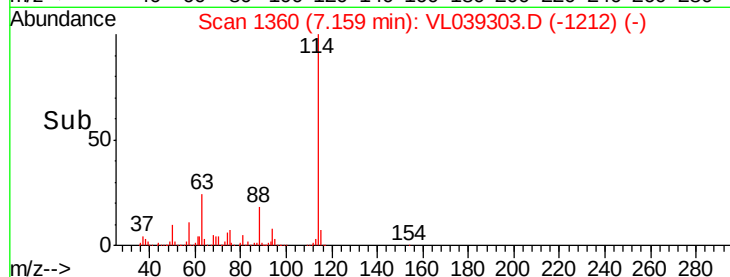
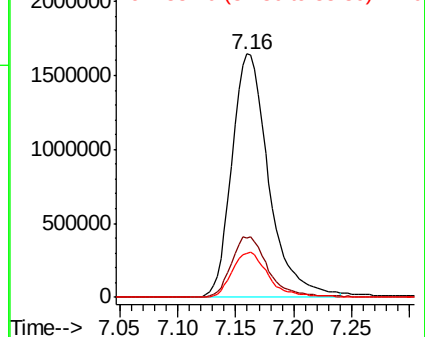
88 18.5 14.8 22.2



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.076 ppbv

RT: 5.24 min Scan# 763

Delta R.T. -0.01 min

Lab File: VL039303.D

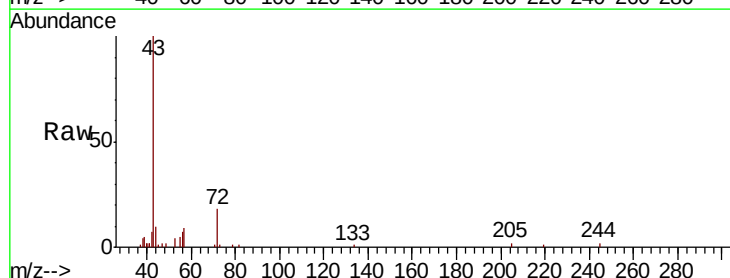
Acq: 15 Jun 2022 19:55

Tgt Ion: 43 Resp: 14892

Ion Ratio Lower Upper

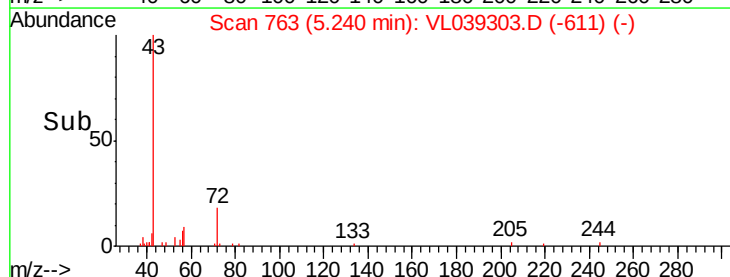
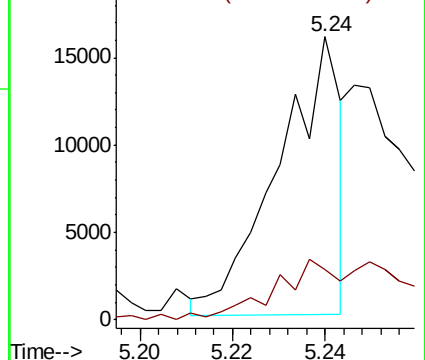
43 100

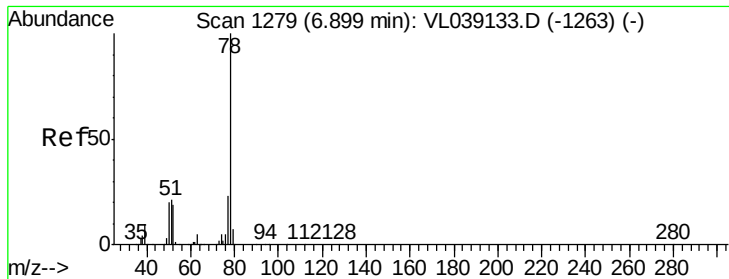
72 52.3 18.2 27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

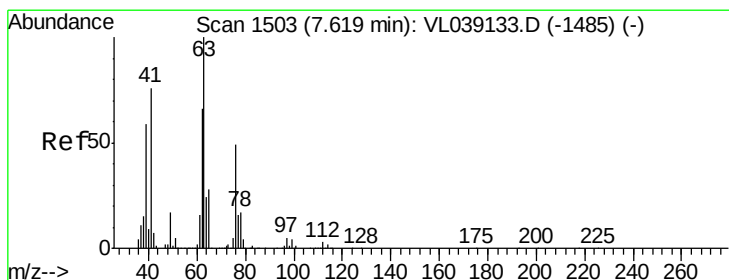
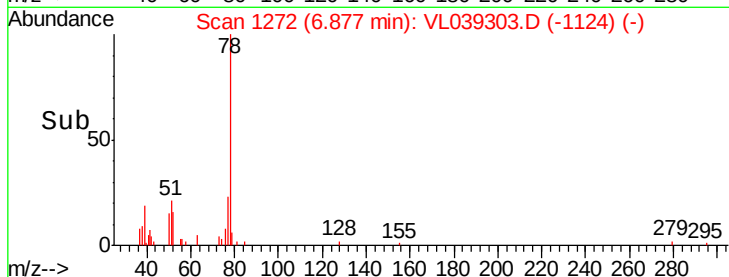
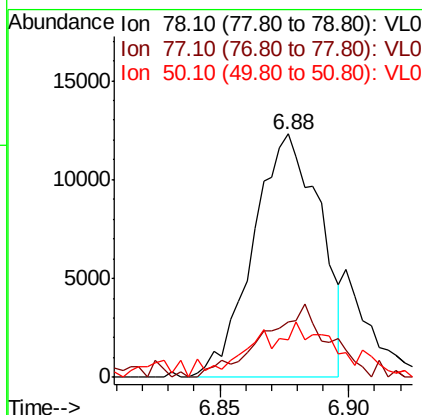
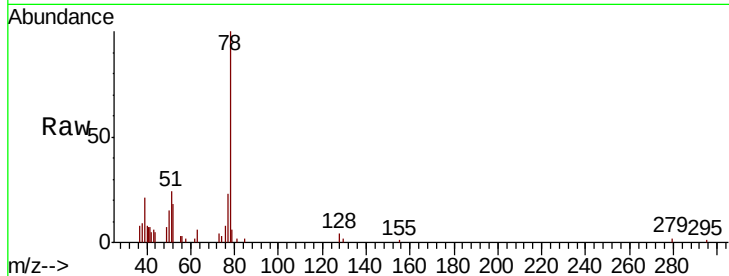
Ion 72.10 (71.80 to 72.80): VL0





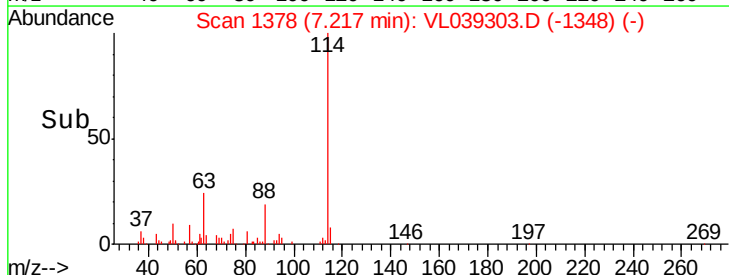
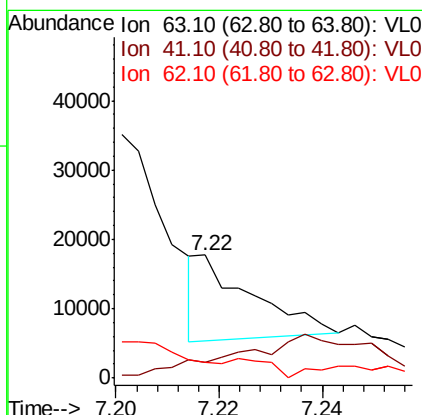
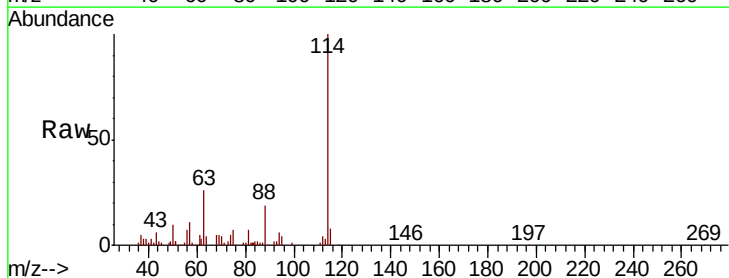
#36
Benzene
Concen: 0.076 ppbv
RT: 6.88
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Jun 2022 19:55

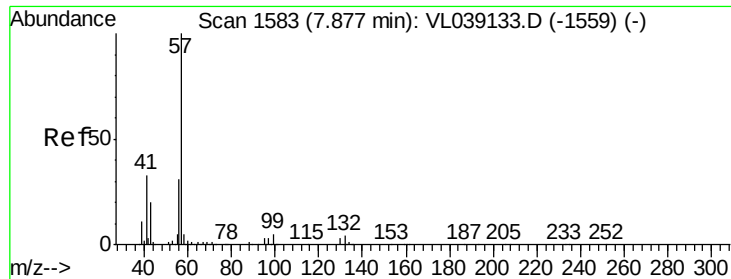
Tot Ion	78	Resp	22386
Ion Ratio	Lower	Upper	
78	100		
77	21.4	18.6	27.8
50	14.6	15.8	23.8#



#39
1,2-Dichloropropane
Concen: 0.077 ppbv
RT: 7.22 min Scan# 1378
Delta R.T. -0.40 min
Lab File: VL039303.D
Acq: 15 Jun 2022 19:55

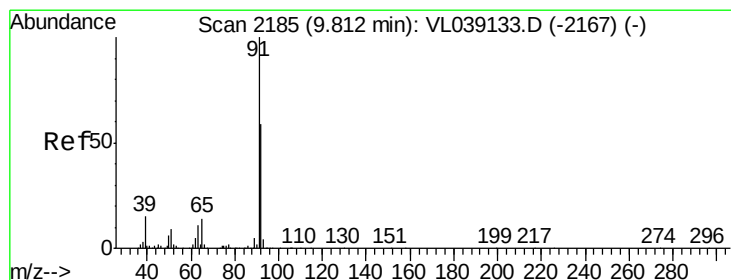
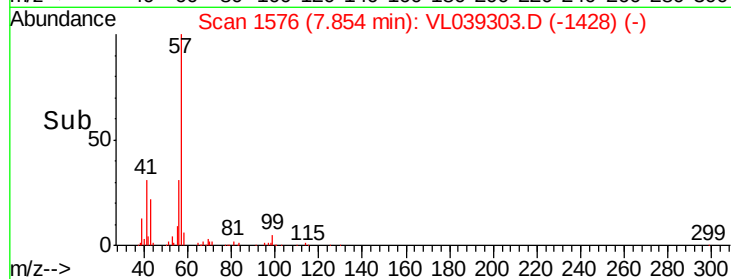
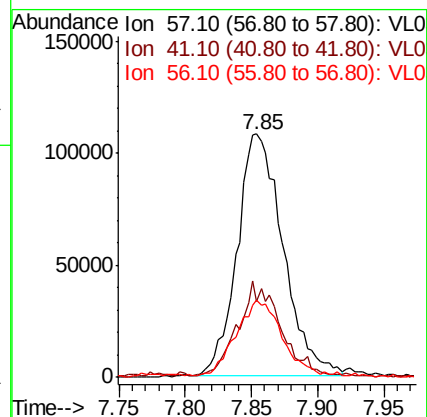
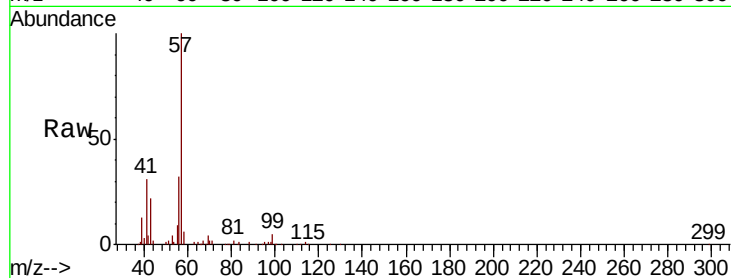
Tgt Ion	63	Resp	9009
Ion Ratio	Lower	Upper	
63	100		
41	0.0	60.8	91.2#
62	4.6	52.9	79.3#





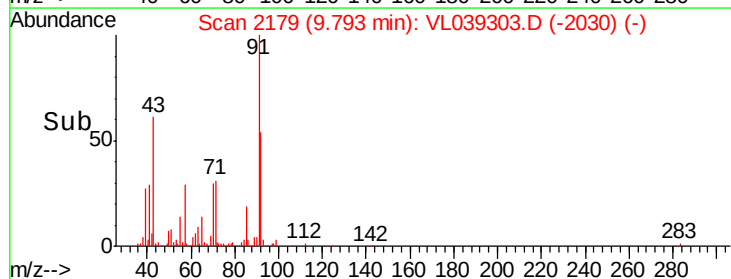
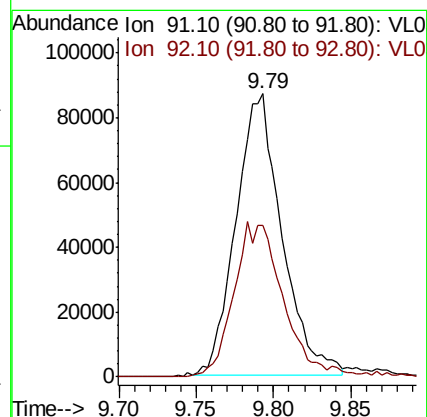
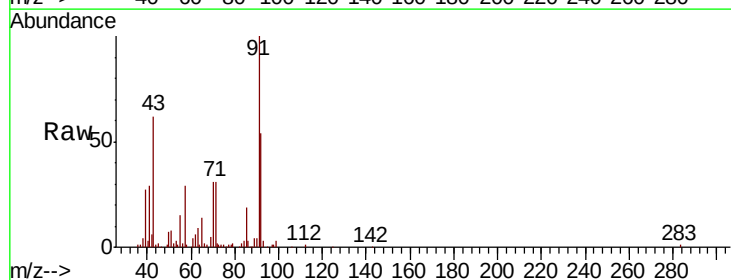
#44
 2,2,4-Trimethylpentane
 Concen: 0.507 ppbv
 RT: 7.85
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 15 Jun 2022 19:55

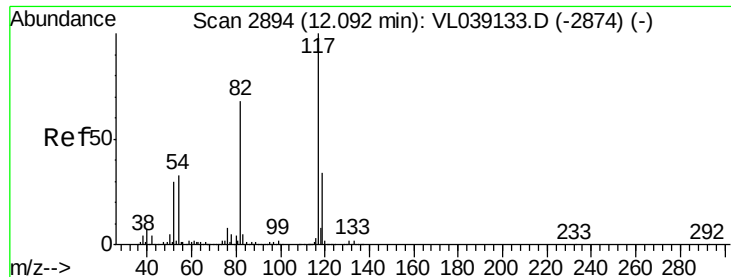
Tot Ion:	57	Resp:	261280
Ion	Ratio	Lower	Upper
57	100		
41	38.9	26.2	39.4
56	32.5	24.7	37.1



#53
 Toluene
 Concen: 0.530 ppbv
 RT: 9.79 min Scan# 2179
 Delta R.T. -0.02 min
 Lab File: VL039303.D
 Acq: 15 Jun 2022 19:55

Tgt Ion:	91	Resp:	179946
Ion	Ratio	Lower	Upper
91	100		
92	59.7	48.1	72.1

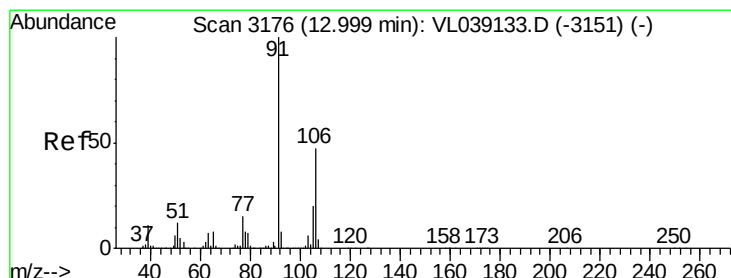
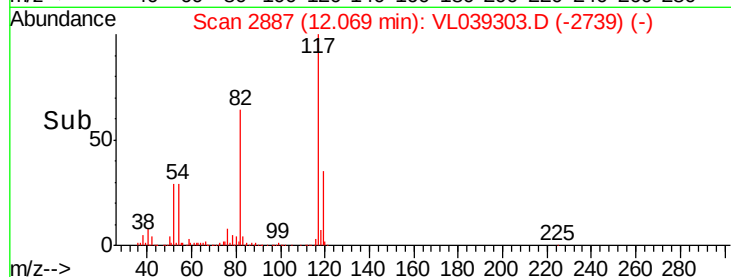
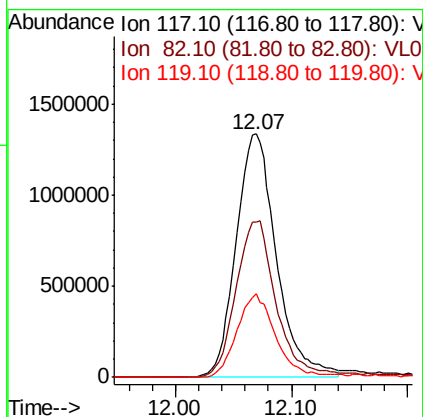
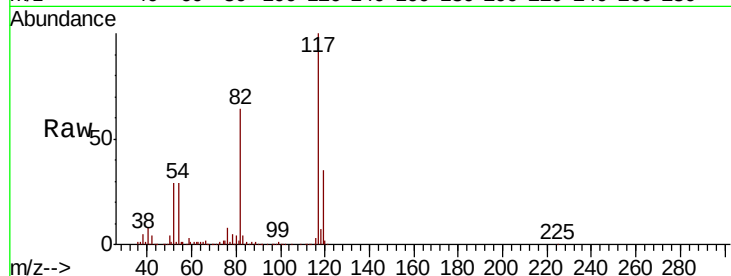




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 15 Jun 2022 19:55

Tot Ion: 117 Resp: 3225026

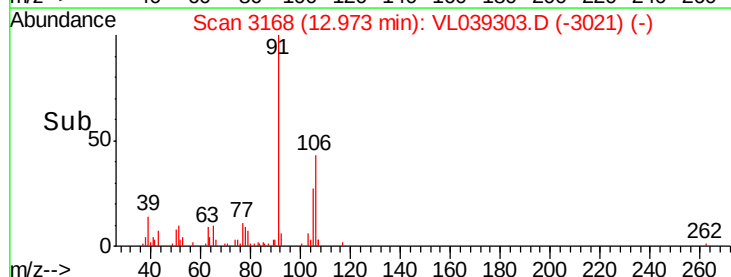
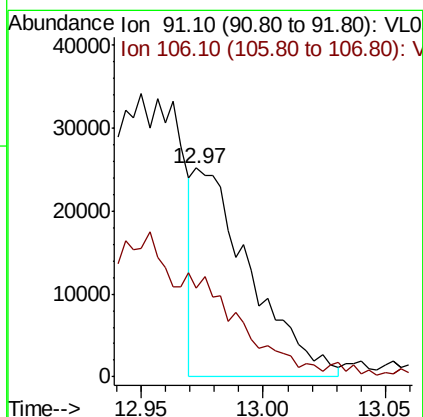
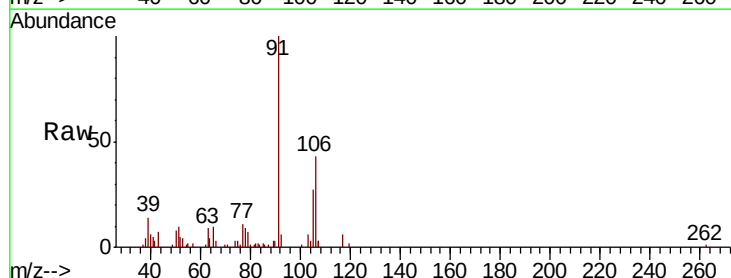
Ion	Ratio	Lower	Upper
117	100		
82	67.8	55.1	82.7
119	34.1	24.7	37.1

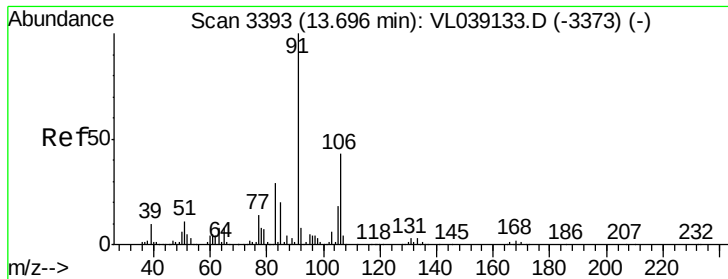


#59
m/p-Xylene
Concen: 0.103 ppbv
RT: 12.97 min Scan# 3168
Delta R.T.: -0.03 min
Lab File: VL039303.D
Acq: 15 Jun 2022 19:55

Tgt Ion: 91 Resp: 40415

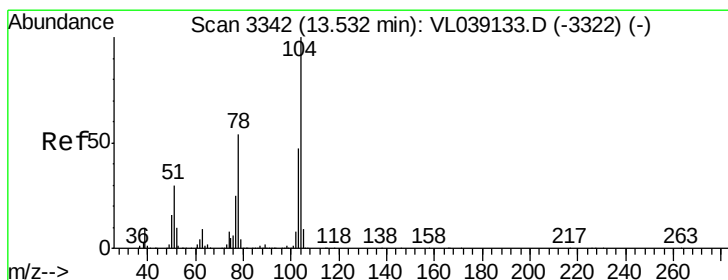
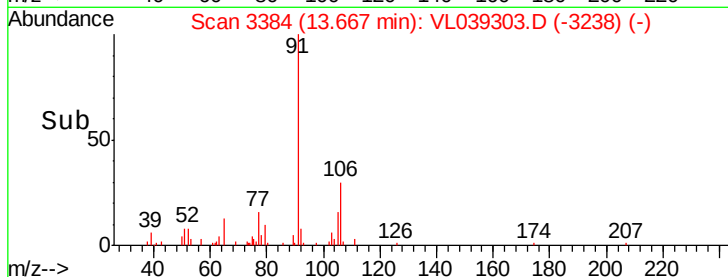
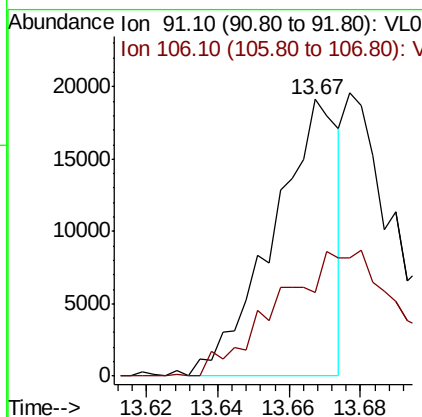
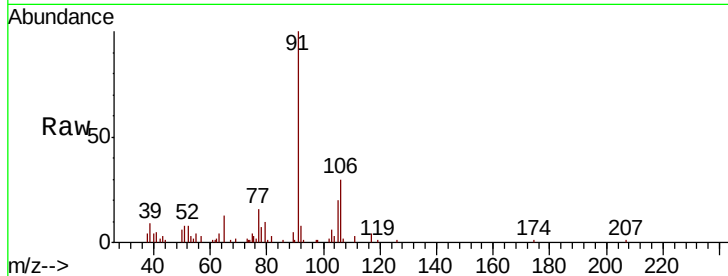
Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.3	51.5#





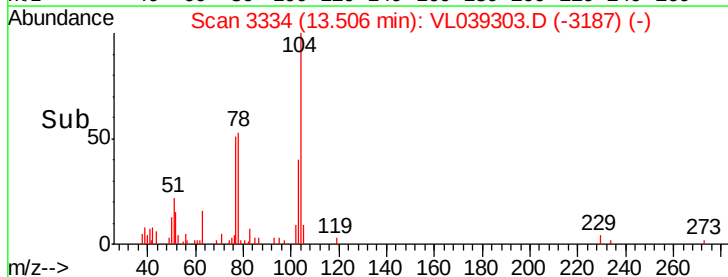
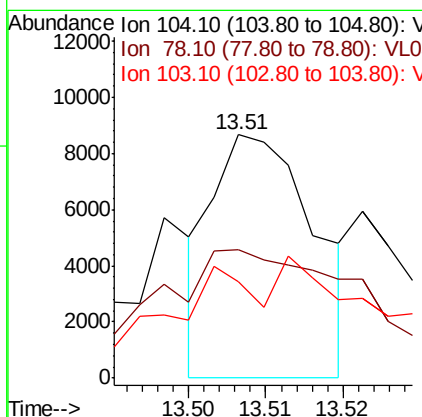
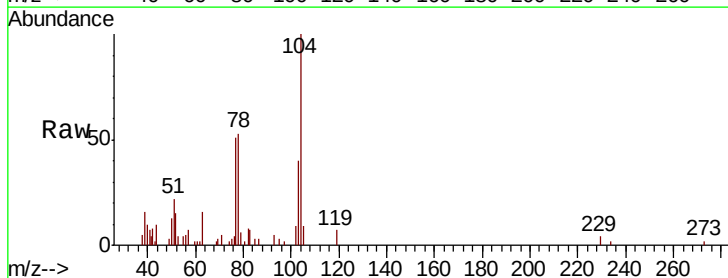
#60
o-Xylene
Concen: 0.066 ppbv
RT: 13.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Jun 2022 19:55

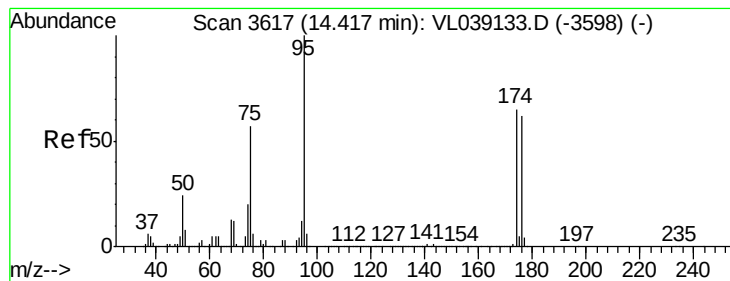
Tot Ion: 91 Resp: 24229
Ion Ratio Lower Upper
91 100
106 0.0 22.3 66.9#



#61
Styrene
Concen: 0.040 ppbv
RT: 13.51 min Scan# 3334
Delta R.T. -0.03 min
Lab File: VL039303.D
Acq: 15 Jun 2022 19:55

Tgt Ion:104 Resp: 7912
Ion Ratio Lower Upper
104 100
78 139.7 45.7 68.5#
103 117.0 39.6 59.4#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.473 ppbv

RT: 14.40

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 15 Jun 2022 19:55

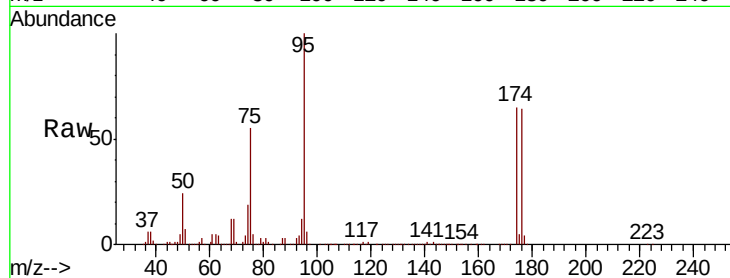
Tot Ion: 95 Resp: 2525830

Ion Ratio Lower Upper

95 100

174 71.0 53.8 80.8

175 5.2 4.1 6.1



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

