

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040722\
 Data File : VL038847.D
 Acq On : 7 Apr 2022 18:53
 Operator : SY/AP
 Sample : N2273-02DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1160-A1-2DL

Quant Time: Apr 11 05:14:22 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1263810	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.20	114	3071728	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	2623553	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2137614	10.74	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.40%

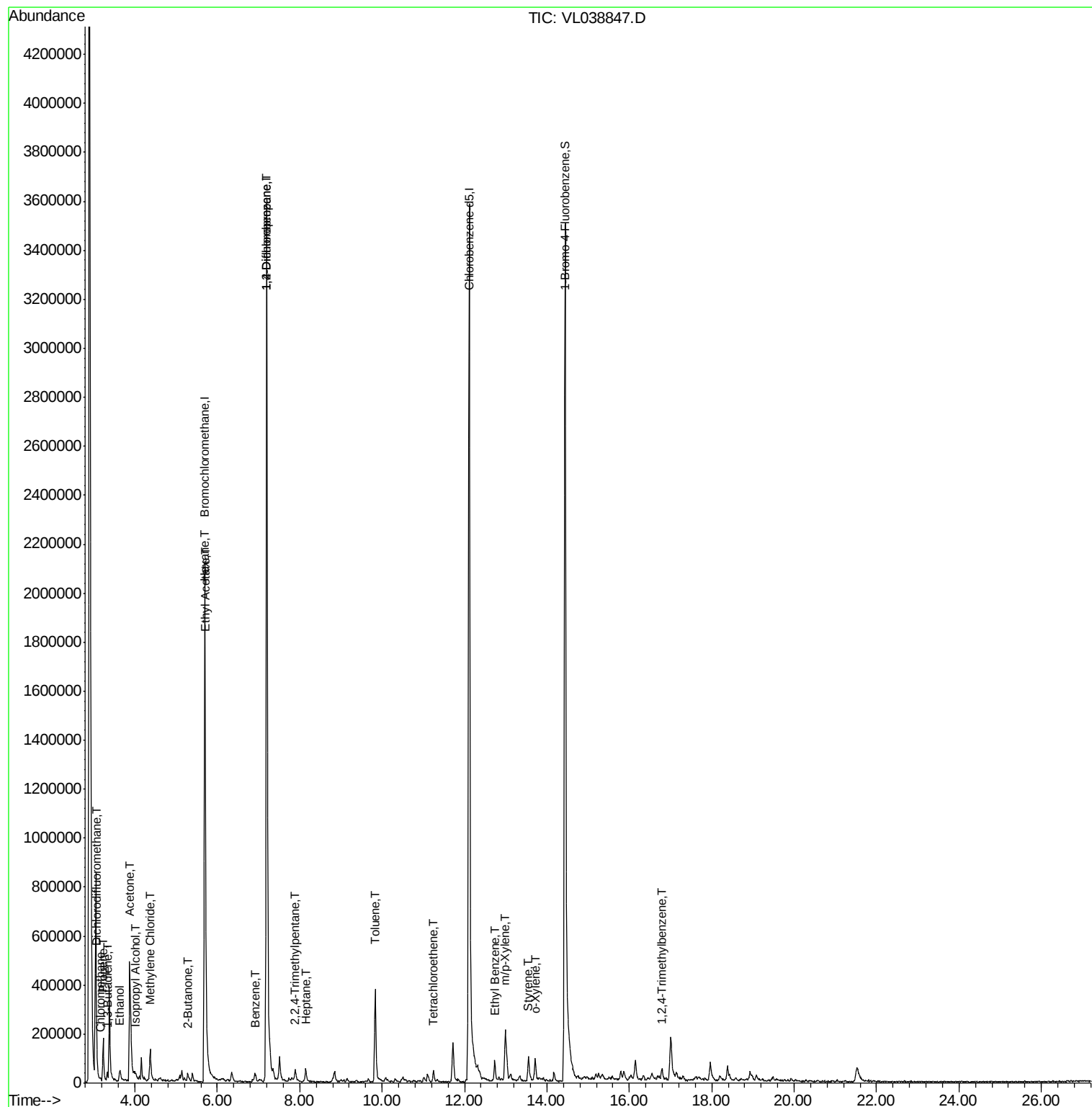
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	11580	0.065	ppbv	98
4) Chloromethane	3.16	50	5589	0.070	ppbv #	84
9) Propene	3.23	41	57264	0.702	ppbv	87
10) Heptane	8.15	43	23386	0.114	ppbv	91
13) Ethanol	3.62	45	19472	3.926	ppbv #	100
15) Acetone	3.87	43	688363	5.471	ppbv	98
16) 1,3-Butadiene	3.33	39	5470	0.076	ppbv #	40
19) Isopropyl Alcohol	4.00	45	12802	0.199	ppbv #	100
20) Methylene Chloride	4.37	84	47325	1.037	ppbv #	82
25) Ethyl Acetate	5.71	43	84356	0.264	ppbv #	86
26) Hexane	5.71	57	90718	0.624	ppbv #	50
34) 2-Butanone	5.28	43	19866	0.164	ppbv #	55
36) Benzene	6.91	78	13460	0.048	ppbv #	94
39) 1,2-Dichloropropane	7.20	63	809898	7.577	ppbv #	27
44) 2,2,4-Trimethylpentane	7.89	57	18241	0.039	ppbv #	22
52) Tetrachloroethene	11.25	164	6359	0.065	ppbv	89
53) Toluene	9.83	91	321486	0.997	ppbv	99
58) Ethyl Benzene	12.73	91	32746	0.084	ppbv #	74
59) m/p-Xylene	12.99	91	224457	0.681	ppbv	98
60) o-Xylene	13.72	91	32501	0.105	ppbv #	29
61) Styrene	13.55	104	56987	0.304	ppbv #	91
74) 1,2,4-Trimethylbenzene	16.79	105	19210	0.055	ppbv #	68

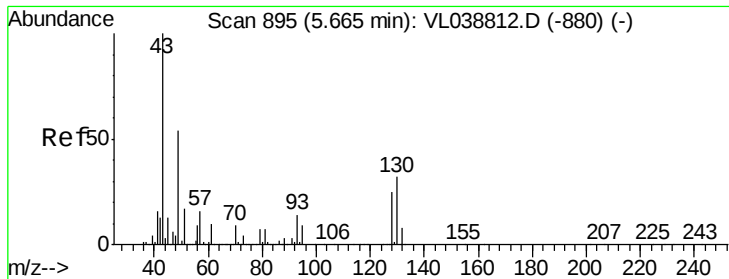
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040722\
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Operator : SY/AP
Sample : N2273-02DL 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
1160-A1-2DL

Quant Time: Apr 11 05:14:22 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Apr 06 06:12:53 2022
QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 7 Apr 2022 18:55

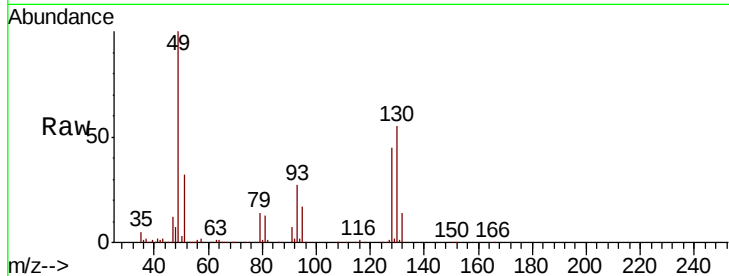
Tot Ion: 49 Resp: 1263810

Ion Ratio Lower Upper

49 100

128 46.2 24.1 72.3

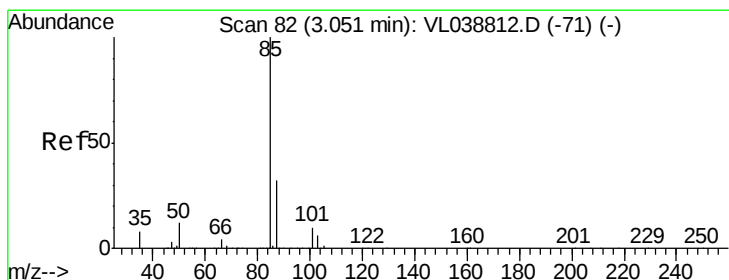
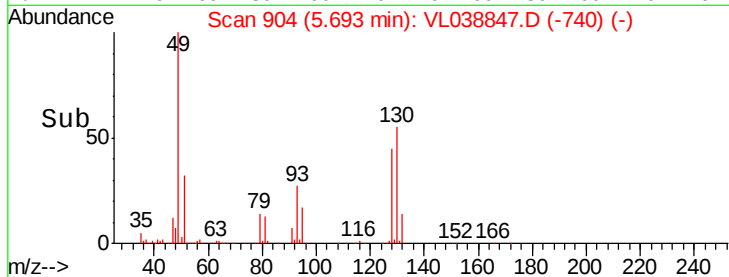
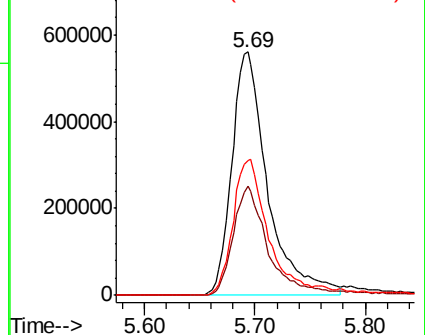
130 59.0 30.9 92.8



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: 0.065 ppbv

RT: 3.07 min Scan# 88

Delta R.T. 0.02 min

Lab File: VL038847.D

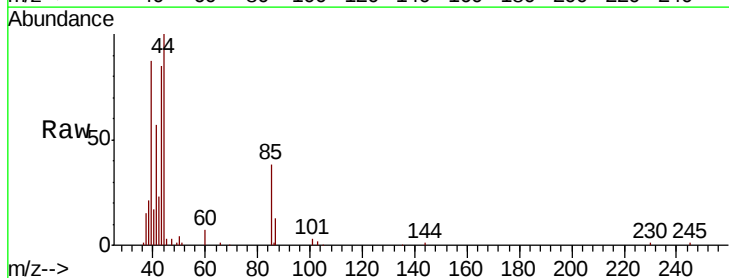
Acq: 7 Apr 2022 18:53

Tgt Ion: 85 Resp: 11580

Ion Ratio Lower Upper

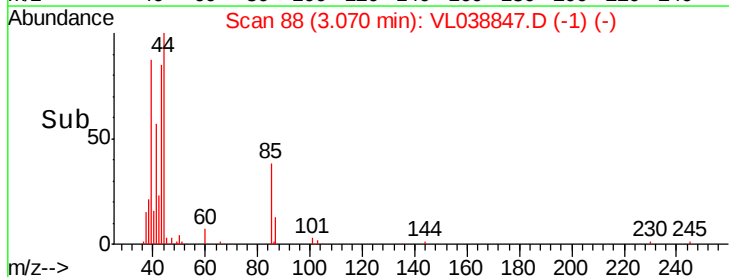
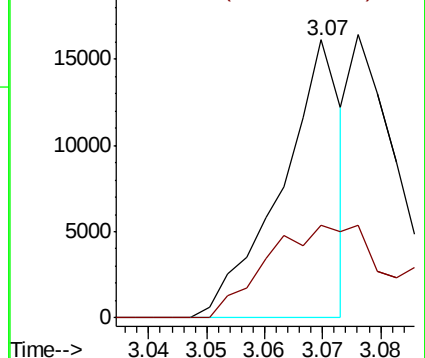
85 100

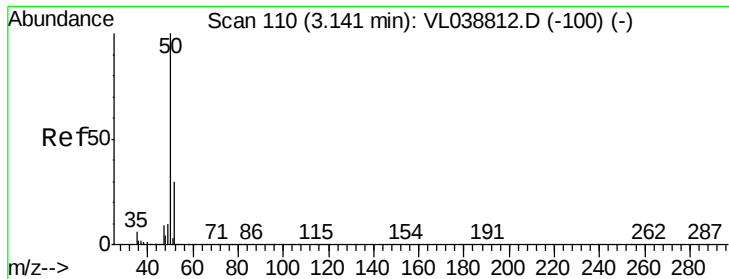
87 33.5 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.070 ppbv

RT: 3.16 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

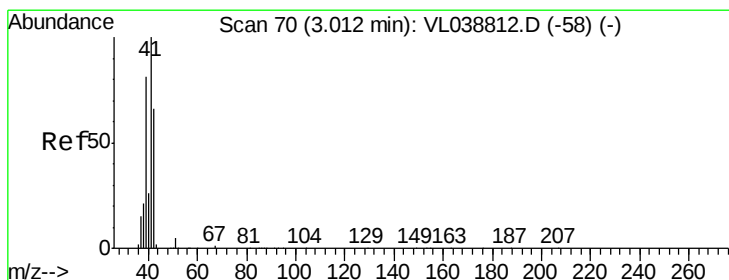
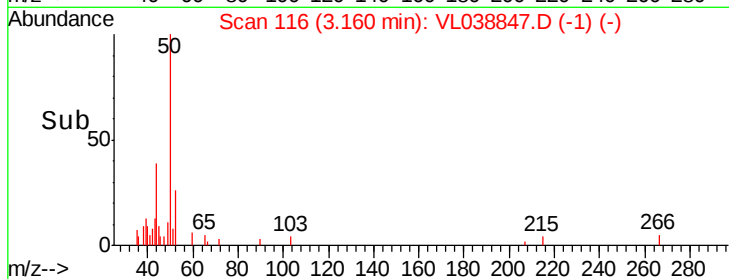
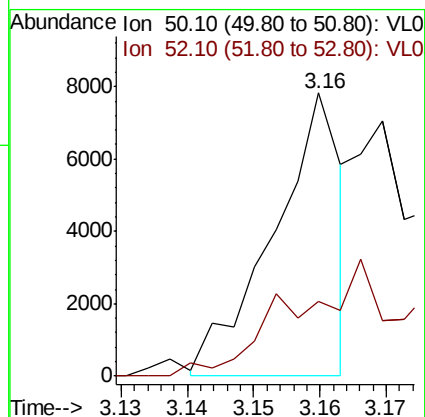
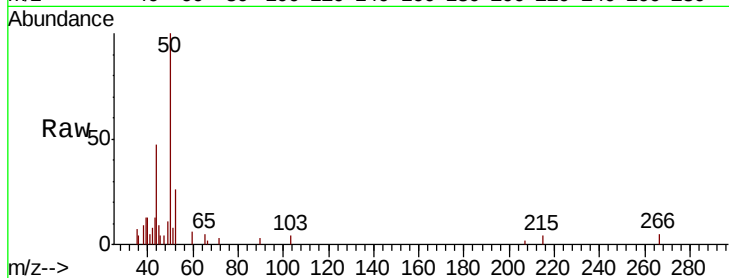
Acq: 7 Apr 2022 18:55

Tot Ion: 50 Resp: 5589

Ion Ratio Lower Upper

50 100

52 21.8 24.3 36.5#



#9

Propene

Concen: 0.702 ppbv

RT: 3.23 min Scan# 138

Delta R.T. 0.22 min

Lab File: VL038847.D

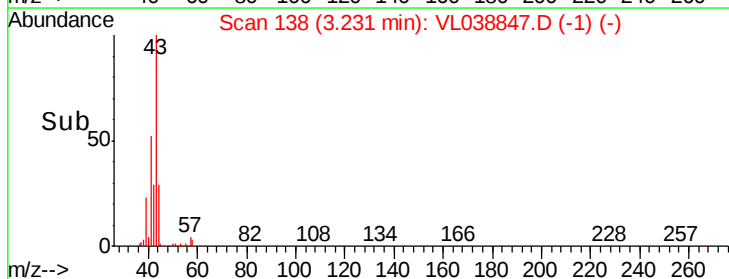
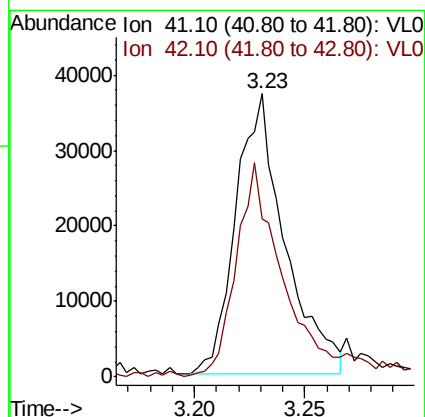
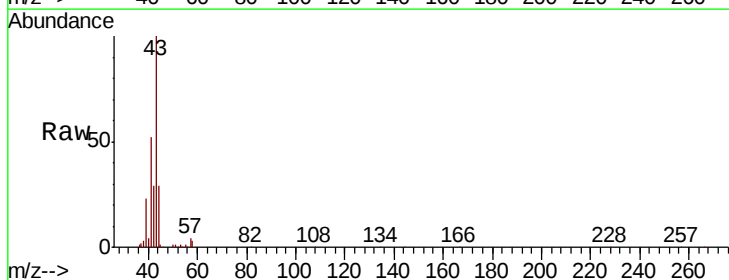
Acq: 7 Apr 2022 18:53

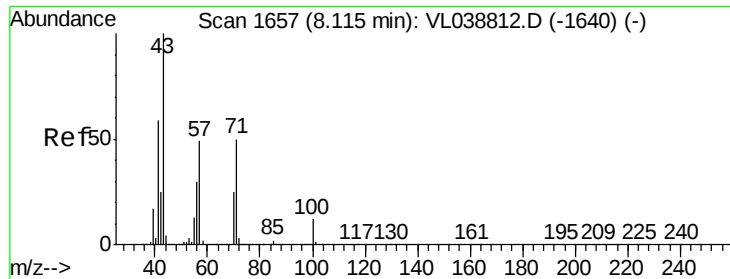
Tgt Ion: 41 Resp: 57264

Ion Ratio Lower Upper

41 100

42 78.4 54.2 81.4





#10

Heptane

Concen: 0.114 ppbv

RT: 8.15 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 1160-A1-2DL

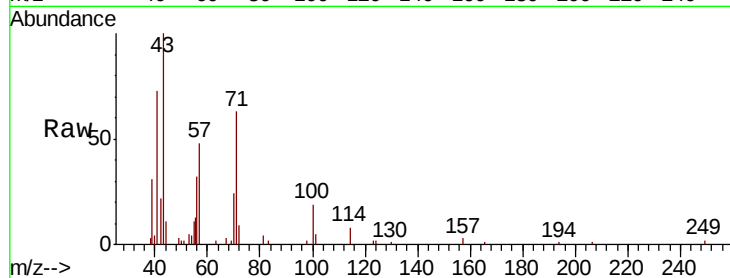
Acq: 7 Apr 2022 18:55

Tot Ion: 43 Resp: 23386

Ion Ratio Lower Upper

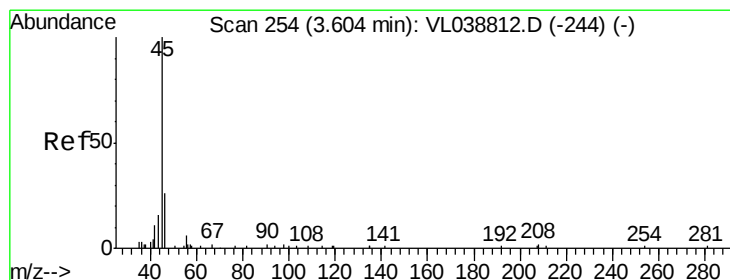
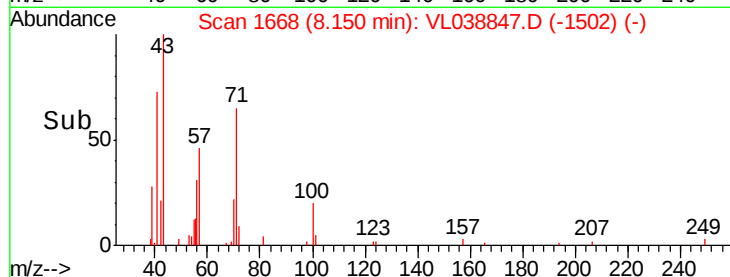
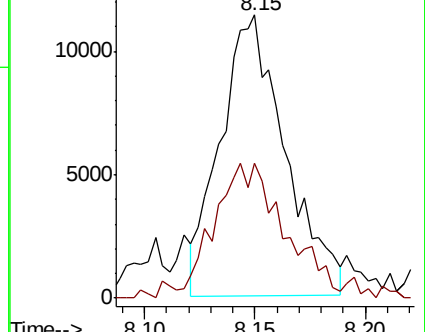
43 100

57 55.6 39.3 58.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#13

Ethanol

Concen: 3.926 ppbv

RT: 3.62 min Scan# 260

Delta R.T. 0.02 min

Lab File: VL038847.D

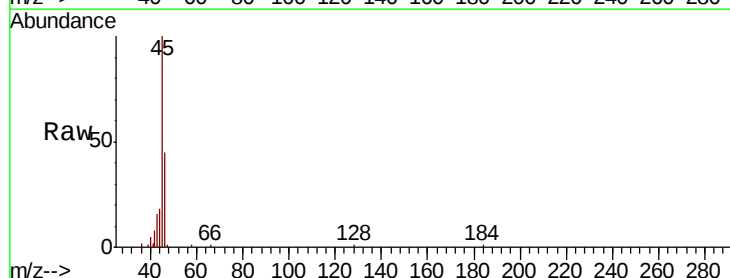
Acq: 7 Apr 2022 18:53

Tgt Ion: 45 Resp: 19472

Ion Ratio Lower Upper

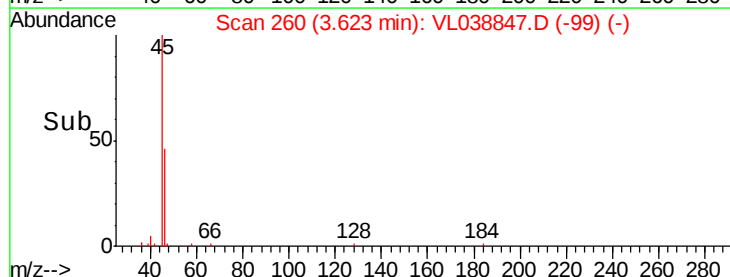
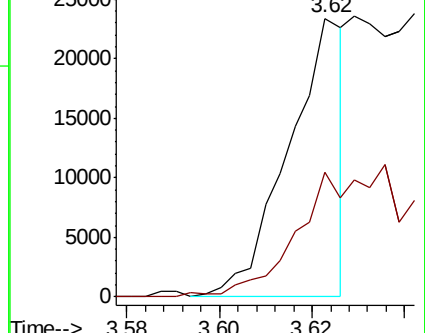
45 100

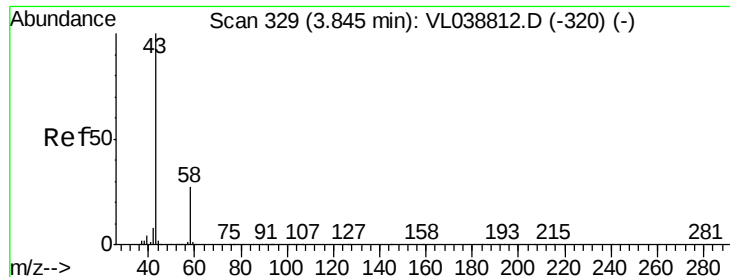
46 0.0 0.0 0.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 5.471 ppbv

RT: 3.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

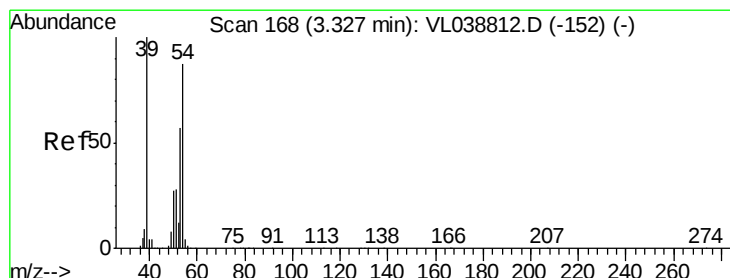
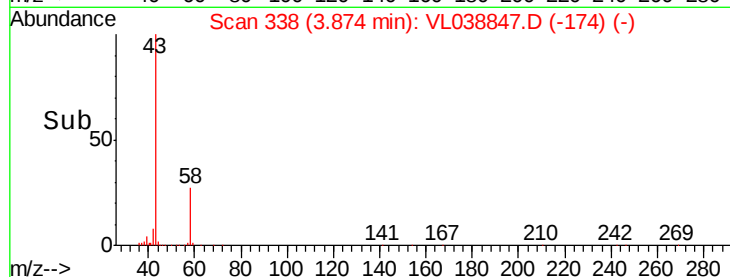
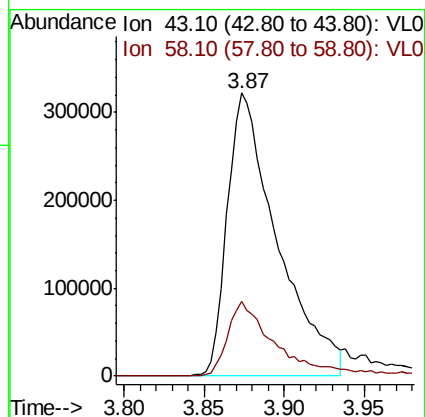
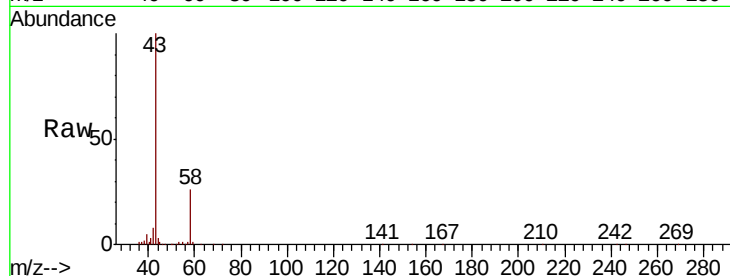
Acq: 7 Apr 2022 18:55

Tot Ion: 43 Resp: 688363

Ion Ratio Lower Upper

43 100

58 27.2 22.5 33.7



#16

1,3-Butadiene

Concen: 0.076 ppbv

RT: 3.33 min Scan# 168

Delta R.T. -0.00 min

Lab File: VL038847.D

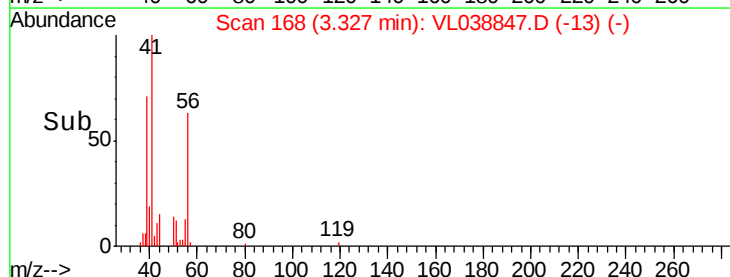
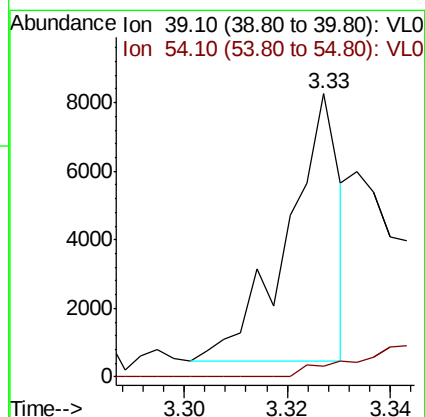
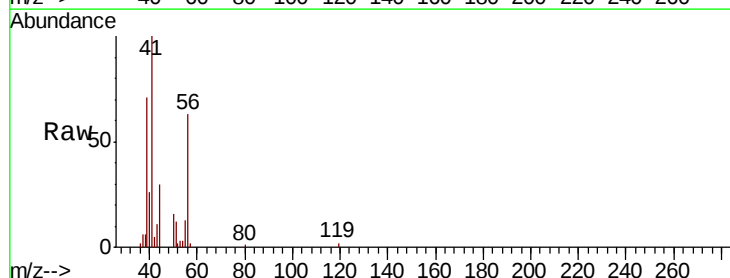
Acq: 7 Apr 2022 18:53

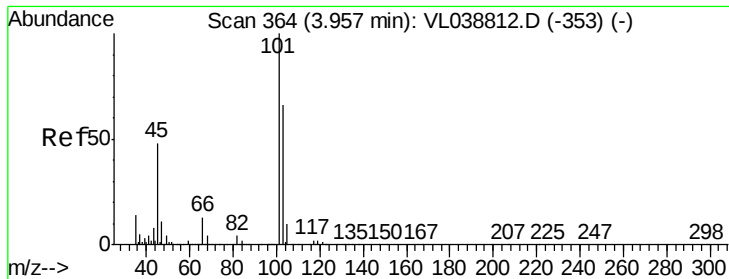
Tgt Ion: 39 Resp: 5470

Ion Ratio Lower Upper

39 100

54 27.7 64.8 97.2#





#19

Isopropyl Alcohol

Concen: 0.199 ppbv

RT: 4.00 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

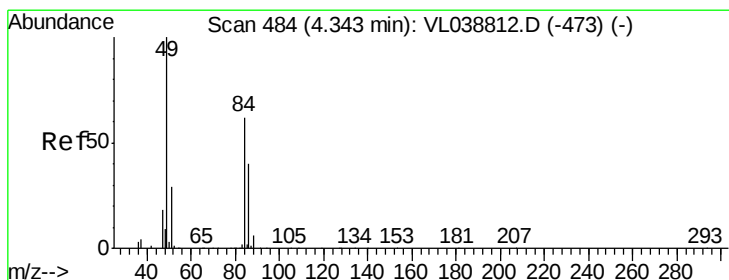
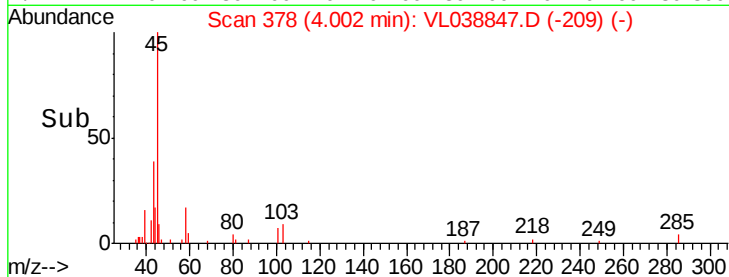
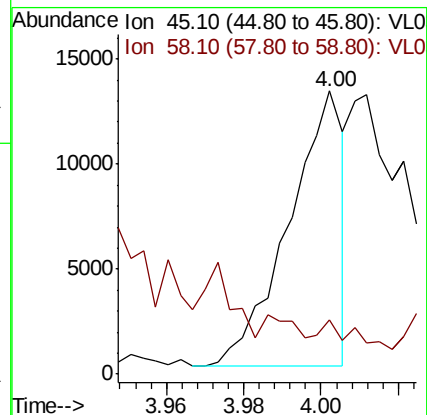
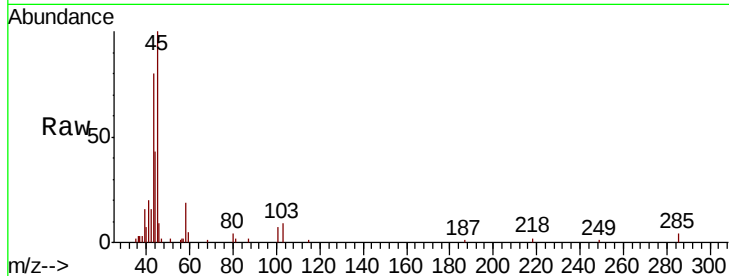
Acq: 7 Apr 2022 18:53

Tot Ion: 45 Resp: 12802

Ion Ratio Lower Upper

45 100

58 0.0 0.0 0.0



#20

Methylene Chloride

Concen: 1.037 ppbv

RT: 4.37 min Scan# 493

Delta R.T. 0.03 min

Lab File: VL038847.D

Acq: 7 Apr 2022 18:53

Tgt Ion: 84 Resp: 47325

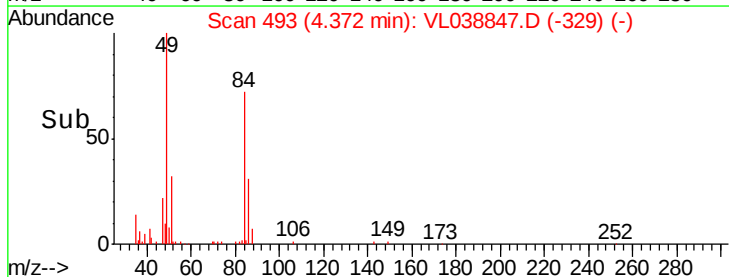
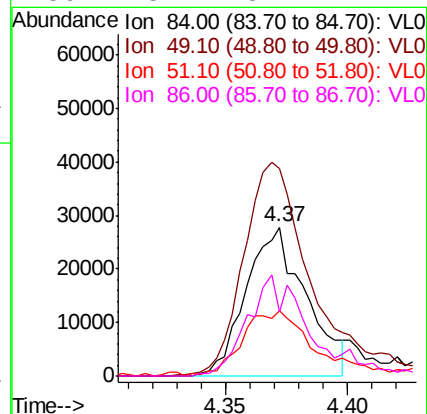
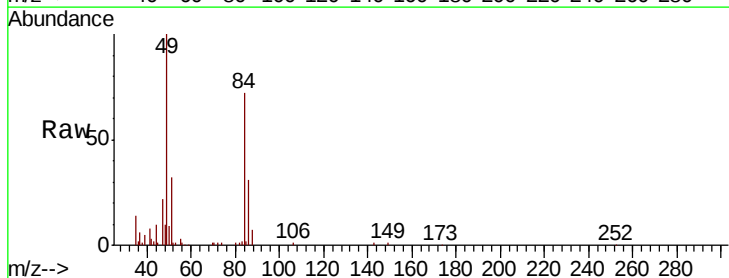
Ion Ratio Lower Upper

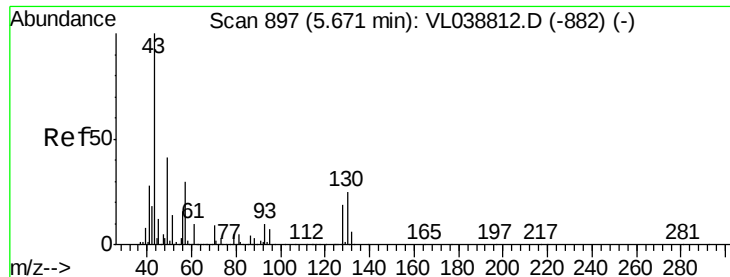
84 100

49 137.6 129.4 194.0

51 41.9 37.4 56.2

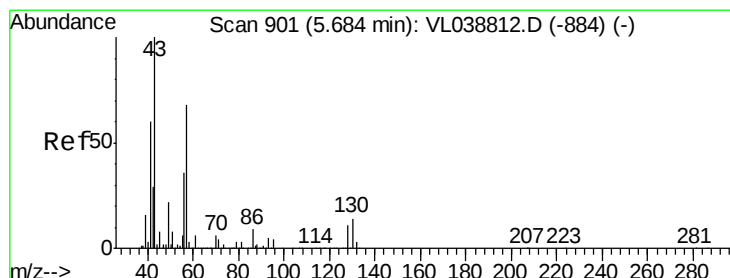
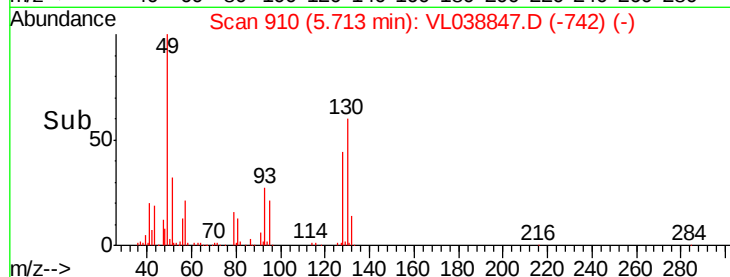
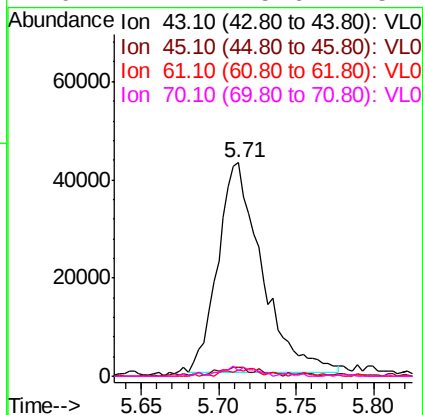
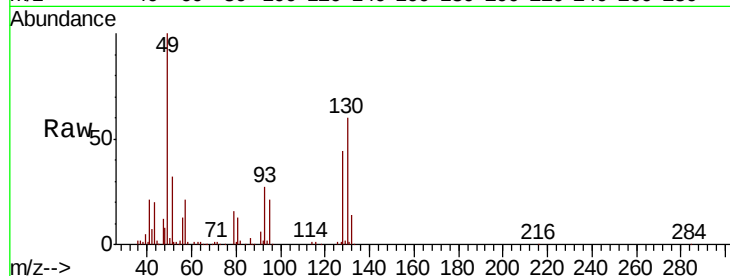
86 43.1 51.4 77.2#





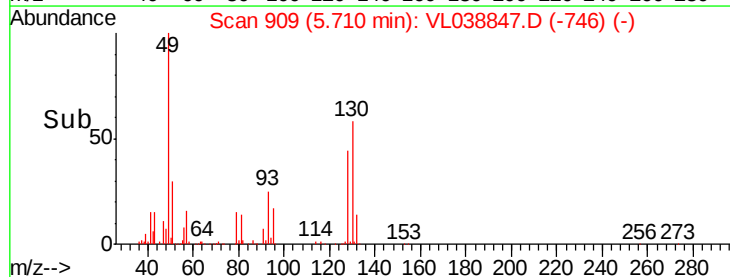
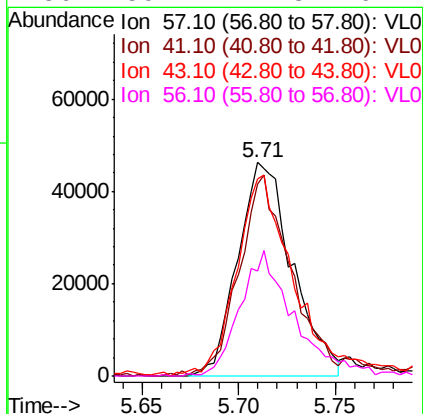
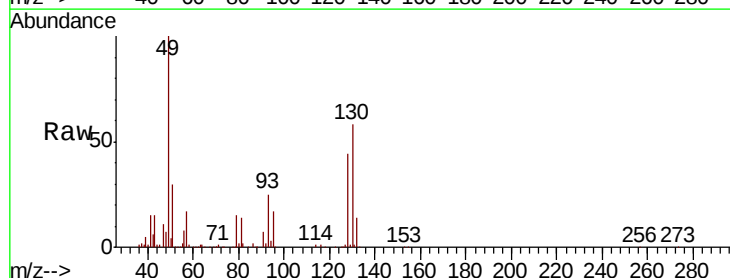
#25
 Ethyl Acetate
 Concen: 0.264 ppbv
 RT: 5.71 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 7 Apr 2022 18:53

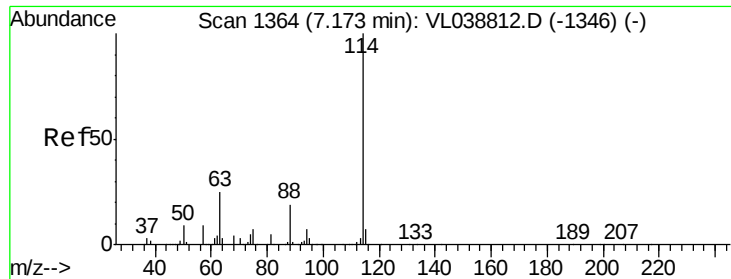
Tot Ion:	43	Resp:	84356
Ion	Ratio	Lower	Upper
43	100		
45	4.9	8.4	12.6#
61	3.3	7.9	11.9#
70	4.2	5.6	8.4#



#26
 Hexane
 Concen: 0.624 ppbv
 RT: 5.71 min Scan# 909
 Delta R.T.: 0.03 min
 Lab File: VL038847.D
 Acq: 7 Apr 2022 18:53

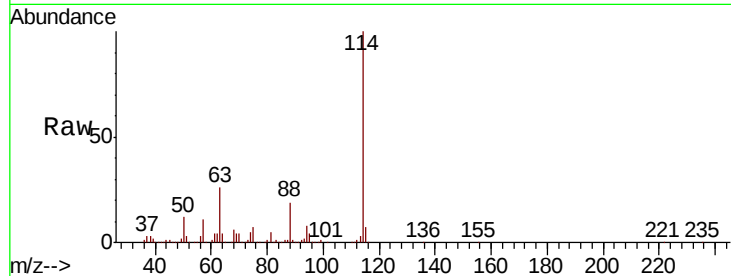
Tgt Ion:	57	Resp:	90718
Ion	Ratio	Lower	Upper
57	100		
41	94.1	72.0	108.0
43	103.3	186.6	280.0#
56	59.7	42.8	64.2



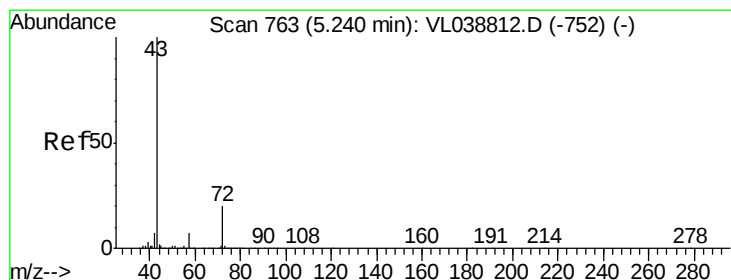
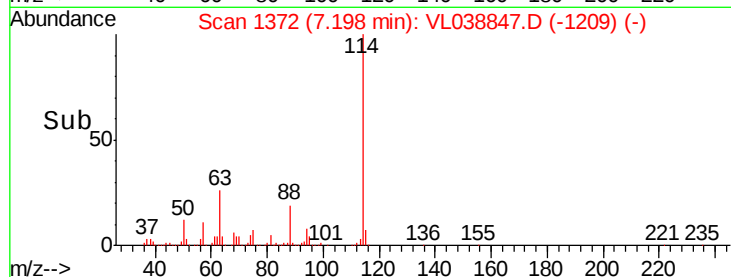
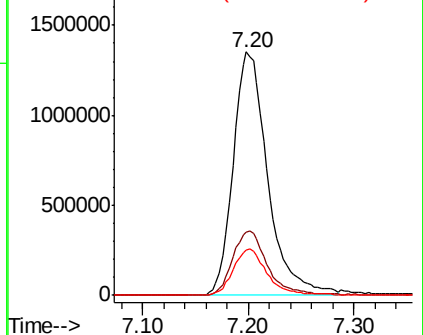


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 7 Apr 2022 18:55

Tot Ion:114 Resp: 3071728
 Ion Ratio Lower Upper
 114 100
 63 26.9 19.8 29.8
 88 18.9 14.2 21.4

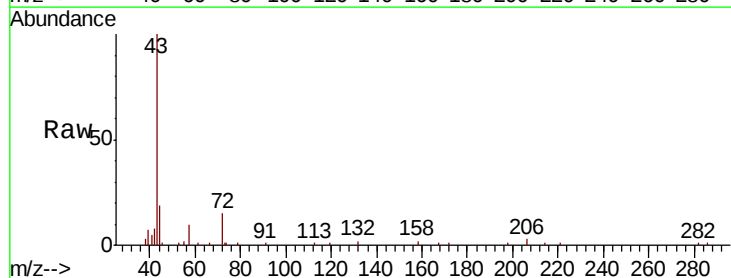


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

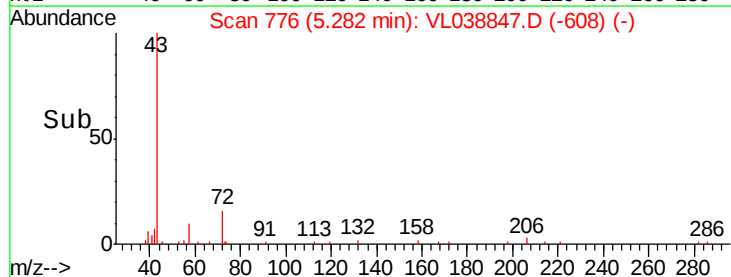
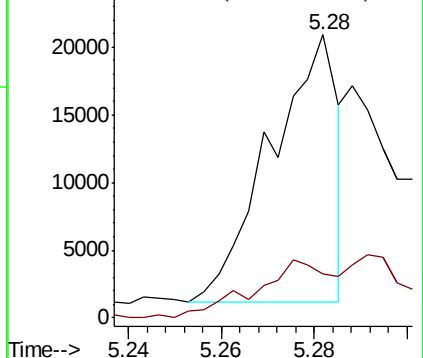


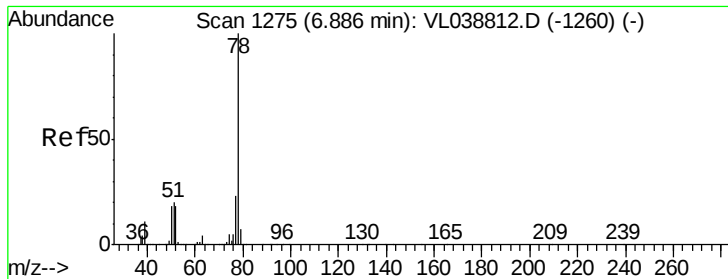
#34
 2-Butanone
 Concen: 0.164 ppbv
 RT: 5.28 min Scan# 776
 Delta R.T.: 0.04 min
 Lab File: VL038847.D
 Acq: 7 Apr 2022 18:53

Tgt Ion: 43 Resp: 19866
 Ion Ratio Lower Upper
 43 100
 72 0.0 16.9 25.3#



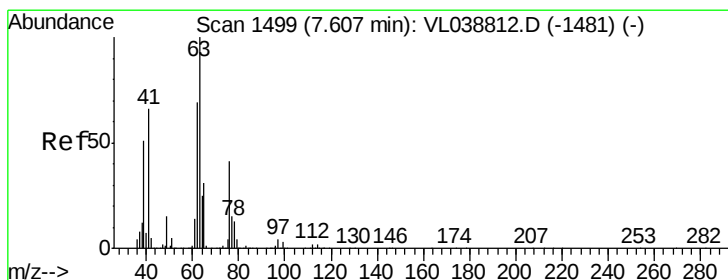
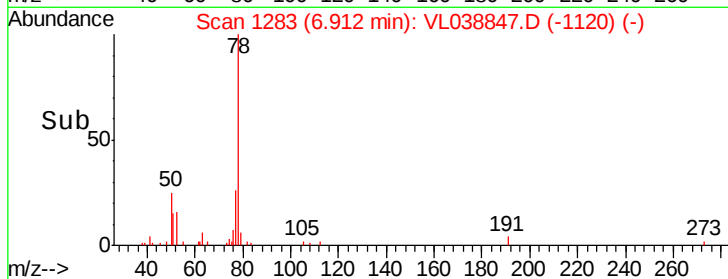
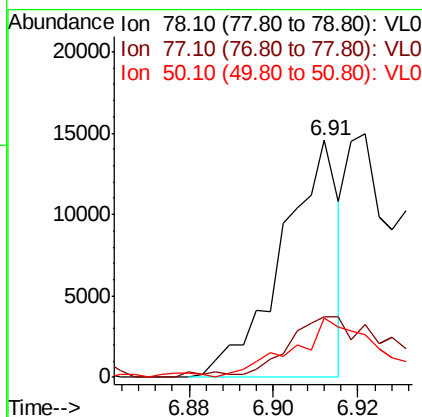
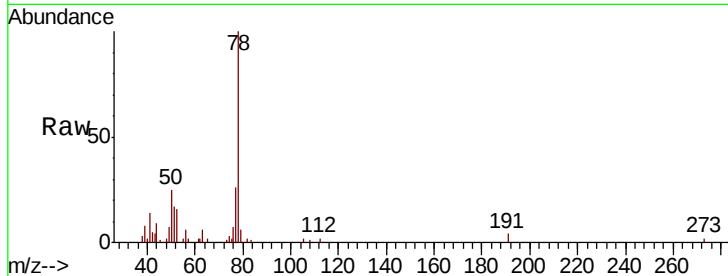
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





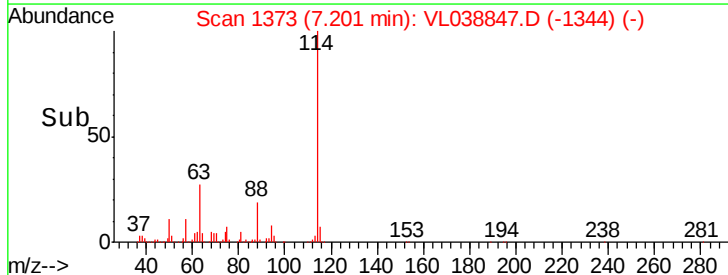
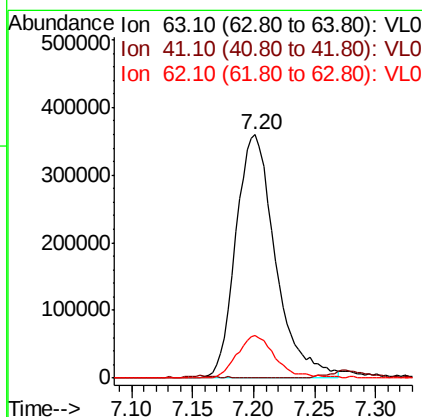
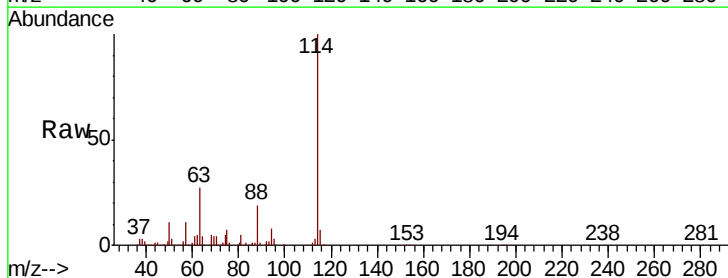
#36
Benzene
Concen: 0.048 ppbv
RT: 6.91
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 18:55

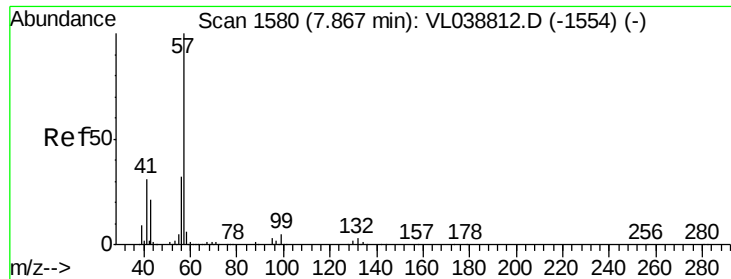
Tot Ion: 78 Resp: 13460
Ion Ratio Lower Upper
78 100
77 23.2 18.2 27.2
50 23.5 14.0 21.0#



#39
1,2-Dichloropropane
Concen: 7.577 ppbv
RT: 7.20 min Scan# 1373
Delta R.T. -0.41 min
Lab File: VL038847.D
Acq: 7 Apr 2022 18:53

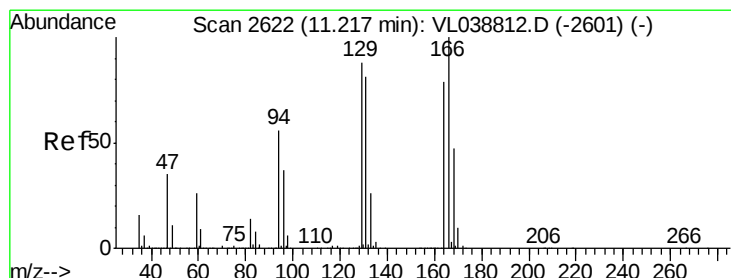
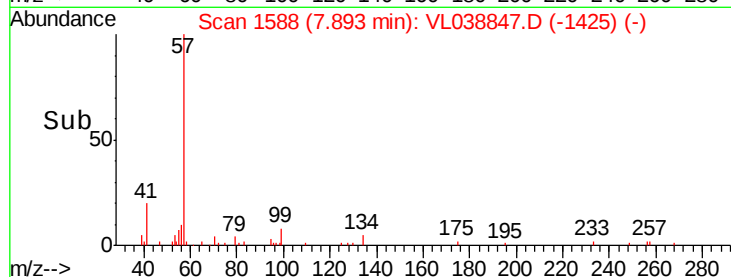
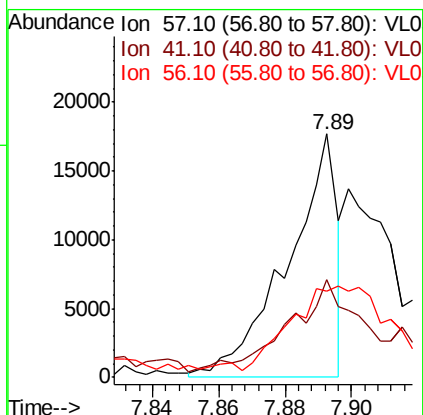
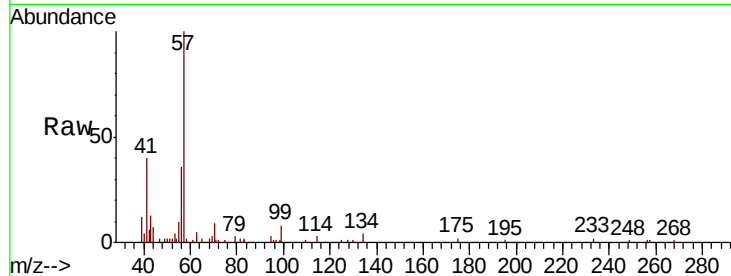
Tgt Ion: 63 Resp: 809898
Ion Ratio Lower Upper
63 100
41 0.0 53.0 79.6#
62 17.7 55.0 82.4#





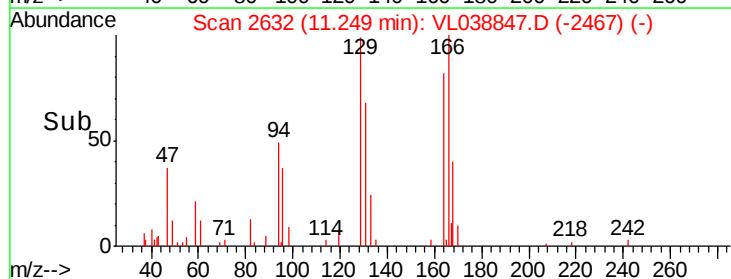
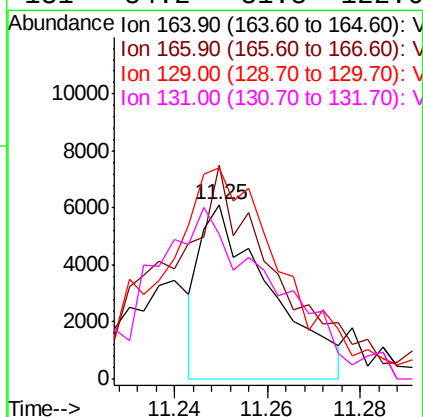
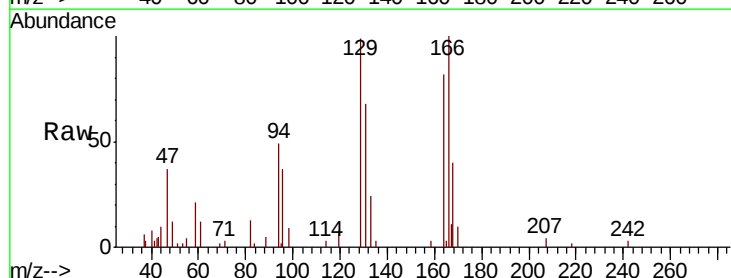
#44
 2,2,4-Trimethylpentane
 Concen: 0.039 ppbv
 RT: 7.89
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 1160-A1-2DL
 Acq: 7 Apr 2022 18:55

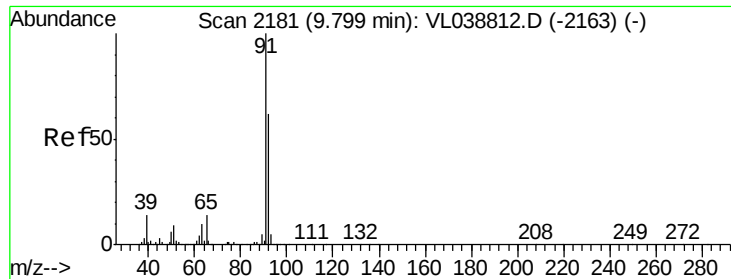
Tot Ion: 57 Resp: 18241
 Ion Ratio Lower Upper
 57 100
 41 57.4 25.0 37.4#
 56 91.9 25.3 37.9#



#52
 Tetrachloroethene
 Concen: 0.065 ppbv
 RT: 11.25 min Scan# 2632
 Delta R.T. 0.03 min
 Lab File: VL038847.D
 Acq: 7 Apr 2022 18:53

Tgt Ion:164 Resp: 6359
 Ion Ratio Lower Upper
 164 100
 166 110.9 101.0 151.6
 129 113.9 88.7 133.1
 131 84.2 81.8 122.6





#53

Toluene

Concen: 0.997 ppbv

RT: 9.83 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

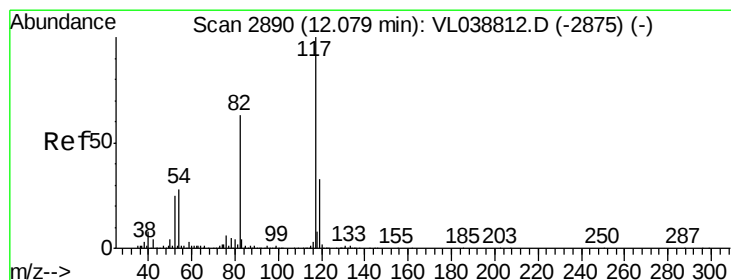
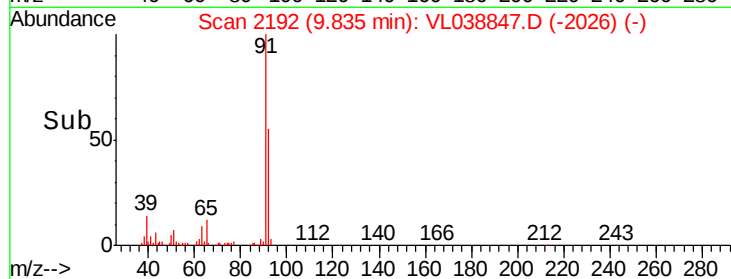
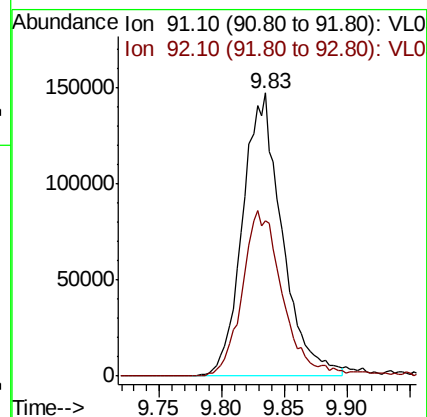
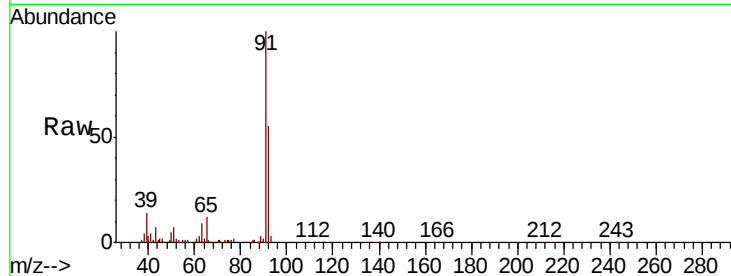
Acq: 7 Apr 2022 18:55

Tot Ion: 91 Resp: 321486

Ion Ratio Lower Upper

91 100

92 60.6 49.2 73.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. 0.03 min

Lab File: VL038847.D

Acq: 7 Apr 2022 18:53

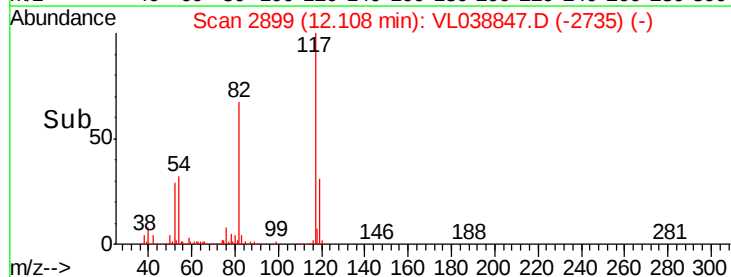
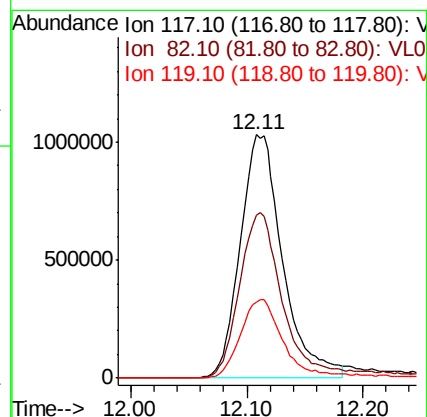
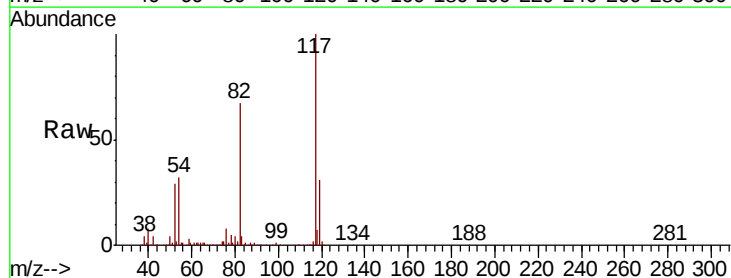
Tgt Ion: 117 Resp: 2623553

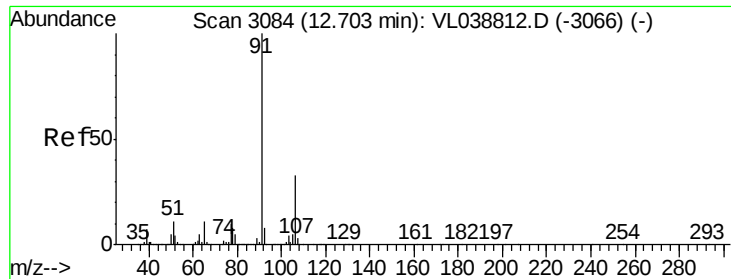
Ion Ratio Lower Upper

117 100

82 72.7 53.0 79.6

119 35.5 24.9 37.3





#58

Ethyl Benzene

Concen: 0.084 ppbv

RT: 12.73

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

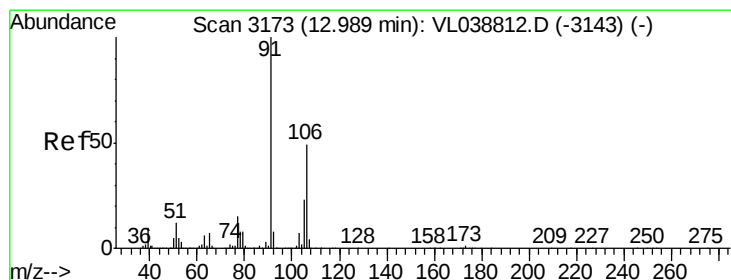
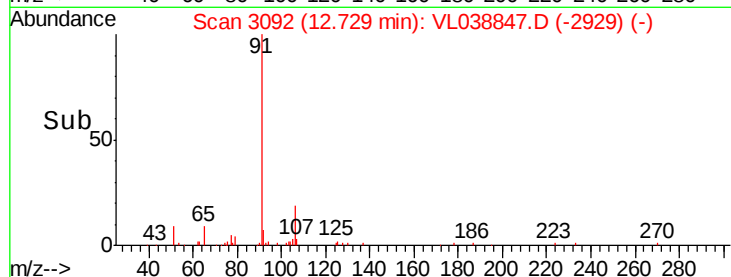
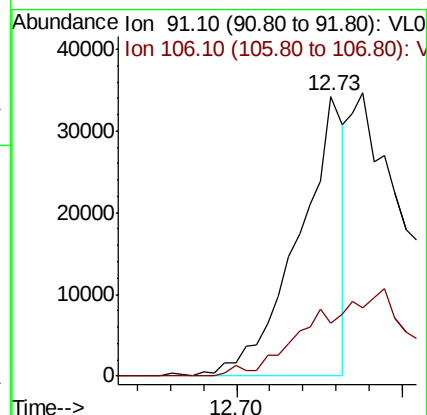
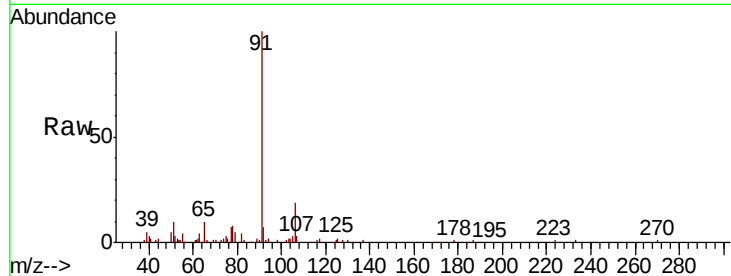
Acq: 7 Apr 2022 18:53

Tot Ion: 91 Resp: 32746

Ion Ratio Lower Upper

91 100

106 18.8 26.7 40.1#



#59

m/p-Xylene

Concen: 0.681 ppbv

RT: 12.99 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VL038847.D

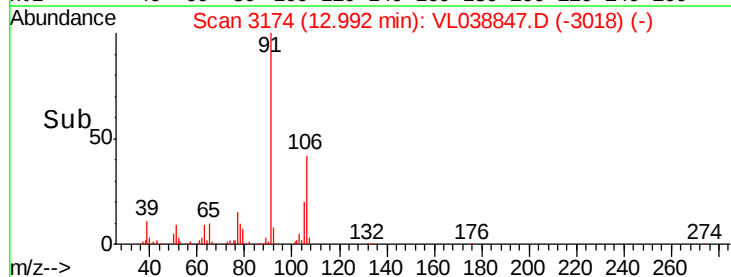
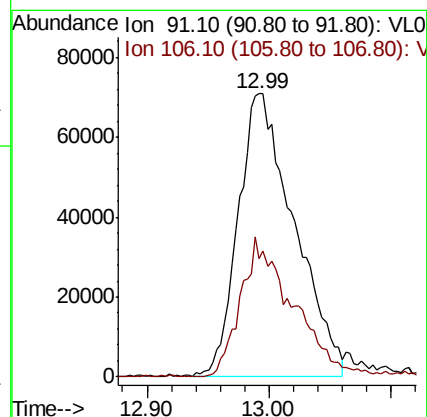
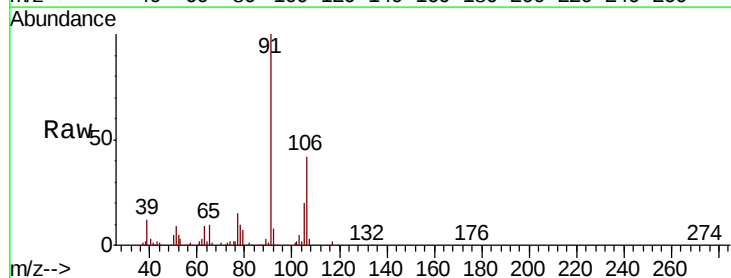
Acq: 7 Apr 2022 18:53

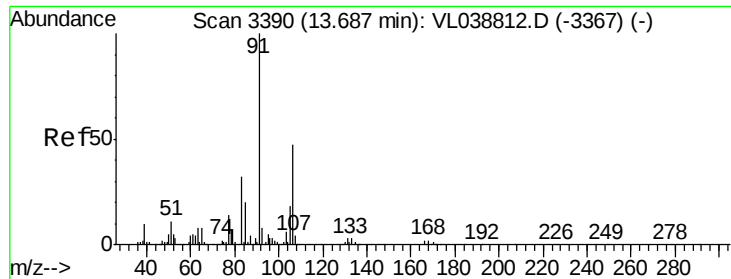
Tgt Ion: 91 Resp: 224457

Ion Ratio Lower Upper

91 100

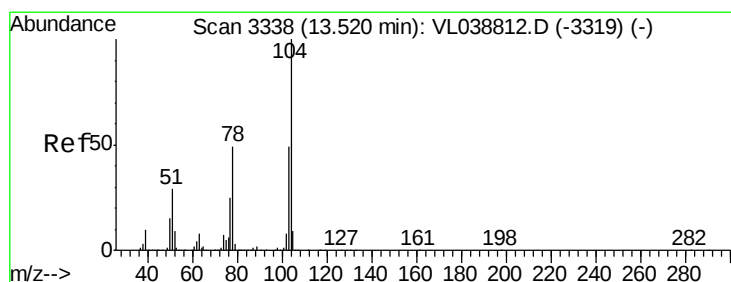
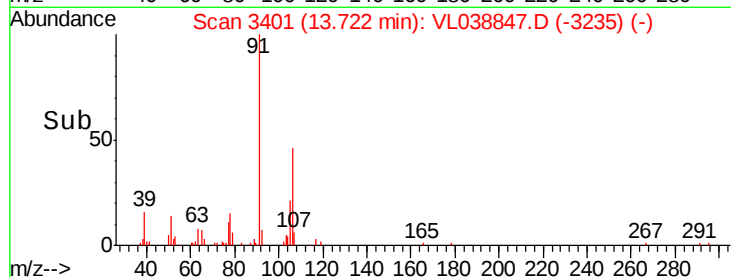
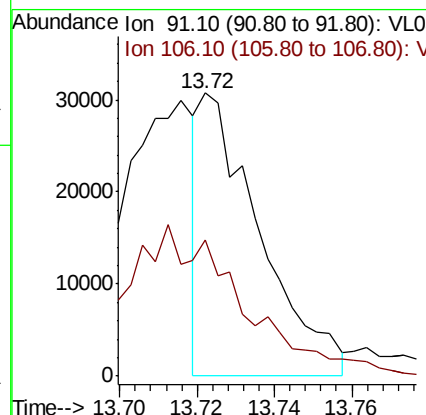
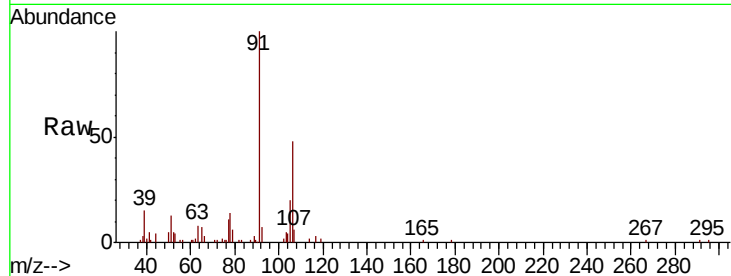
106 47.6 37.1 55.7





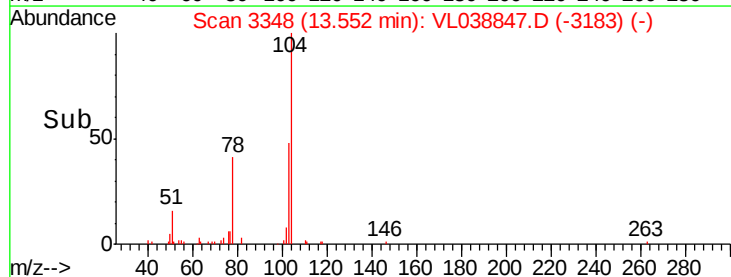
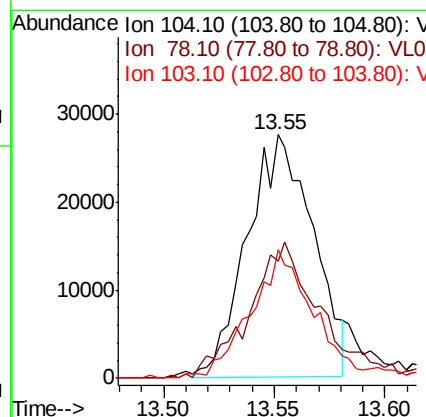
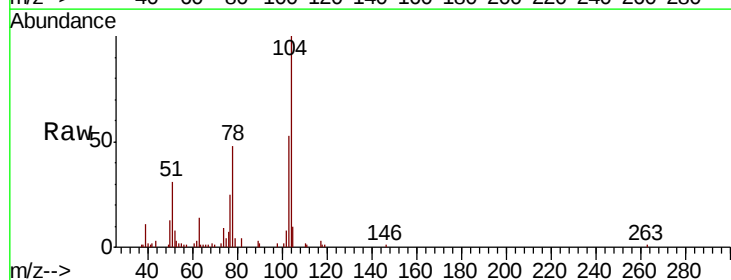
#60
o-Xylene
Concen: 0.105 ppbv
RT: 13.72 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId : 1160-A1-2DL
Acq: 7 Apr 2022 18:55

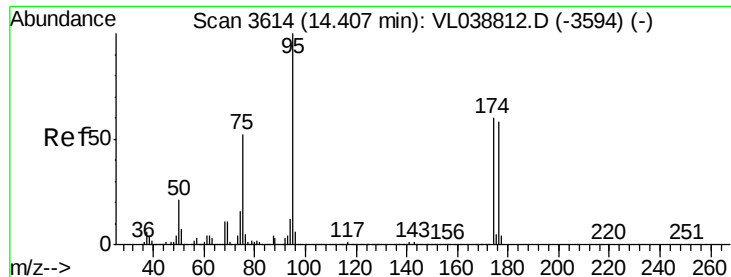
Tot Ion: 91 Resp: 32501
Ion Ratio Lower Upper
91 100
106 0.0 23.8 71.4#



#61
Styrene
Concen: 0.304 ppbv
RT: 13.55 min Scan# 3348
Delta R.T. 0.03 min
Lab File: VL038847.D
Acq: 7 Apr 2022 18:53

Tgt Ion: 104 Resp: 56987
Ion Ratio Lower Upper
104 100
78 60.7 40.5 60.7#
103 51.1 39.0 58.4





#68

1-Bromo-4-Fluorobenzene

Concen: 10.742 ppbv

RT: 14.44 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Apr 2022 18:55

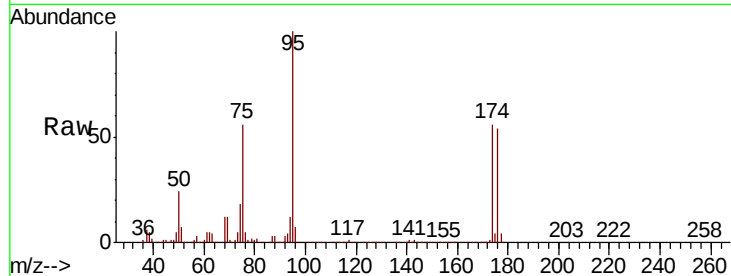
Tot Ion: 95 Resp: 2137614

Ion Ratio Lower Upper

95 100

174 62.6 52.0 78.0

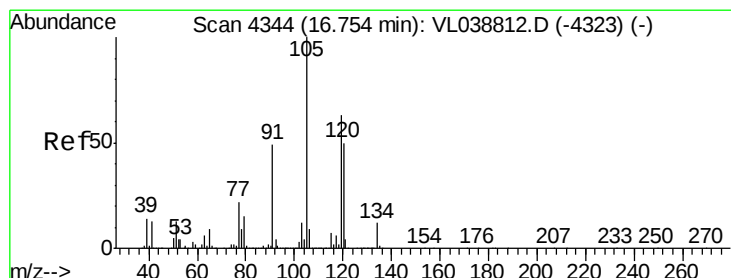
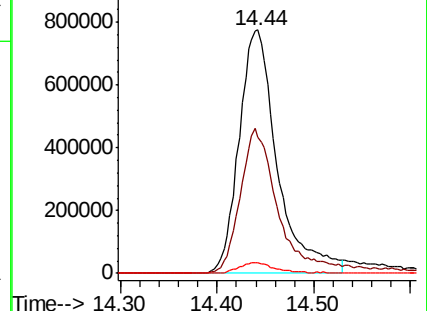
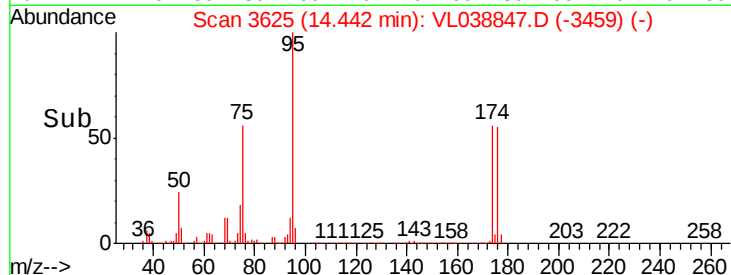
175 4.4 4.0 6.0



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



#74

1,2,4-Trimethylbenzene

Concen: 0.055 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. 0.04 min

Lab File: VL038847.D

Acq: 7 Apr 2022 18:53

Tgt Ion:105 Resp: 19210

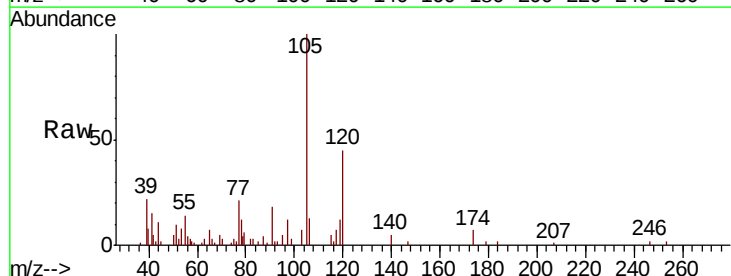
Ion Ratio Lower Upper

105 100

120 36.2 39.8 59.8#

91 13.6 39.4 59.0#

77 15.5 17.3 25.9#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

