

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040722\
 Data File : VL038851.D
 Acq On : 7 Apr 2022 21:30
 Operator : SY/AP
 Sample : N2273-04DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 1160-1-SG-1DL

Quant Time: Apr 11 05:15:56 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	5.70	49	1207352	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.20	114	3012461	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	2607906	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2107817	10.66	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.60%

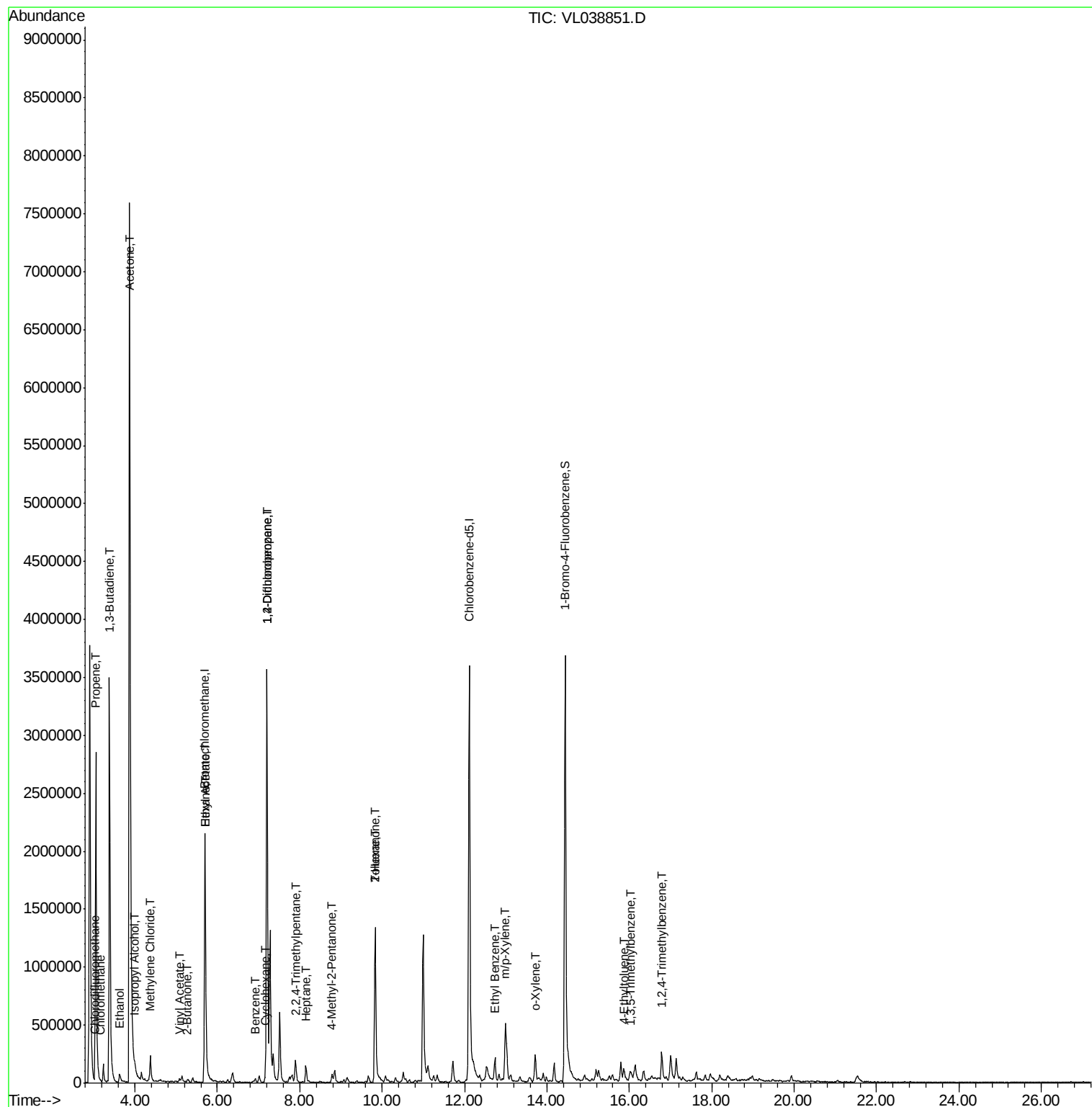
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.01	51	12064	0.082	ppbv #	88
4) Chloromethane	3.16	50	3735	0.049	ppbv	94
9) Propene	3.05	41	733611	9.410	ppbv #	59
10) Heptane	8.15	43	66759	0.340	ppbv	90
13) Ethanol	3.63	45	107712	22.735	ppbv #	100
15) Acetone	3.87	43	10955873	91.145	ppbv	95
16) 1,3-Butadiene	3.38	39	551405	8.024	ppbv #	11
19) Isopropyl Alcohol	4.00	45	62209	1.013	ppbv #	100
20) Methylene Chloride	4.37	84	77496	1.778	ppbv	97
23) Vinyl Acetate	5.09	43	5218	0.045	ppbv #	44
25) Ethyl Acetate	5.72	43	93082	0.305	ppbv #	84
26) Hexane	5.72	57	109085	0.786	ppbv #	47
30) Cyclohexane	7.16	84	11783	0.096	ppbv #	16
34) 2-Butanone	5.28	43	11352	0.095	ppbv #	16
36) Benzene	6.92	78	23377	0.085	ppbv #	94
39) 1,2-Dichloropropane	7.20	63	771801	7.363	ppbv #	26
44) 2,2,4-Trimethylpentane	7.90	57	155168	0.334	ppbv #	79
50) 4-Methyl-2-Pentanone	8.79	43	59623	0.223	ppbv	96
51) 2-Hexanone	9.83	43	1319591	6.541	ppbv #	27
53) Toluene	9.83	91	199784	0.632	ppbv	100
58) Ethyl Benzene	12.74	91	179091	0.460	ppbv	96
59) m/p-Xylene	12.99	91	566637	1.731	ppbv	99
60) o-Xylene	13.72	91	191786	0.626	ppbv	94
72) 4-Ethyltoluene	15.87	105	41288	0.113	ppbv #	63
73) 1,3,5-Trimethylbenzene	16.02	105	53476	0.163	ppbv	93
74) 1,2,4-Trimethylbenzene	16.79	105	165518	0.476	ppbv #	69

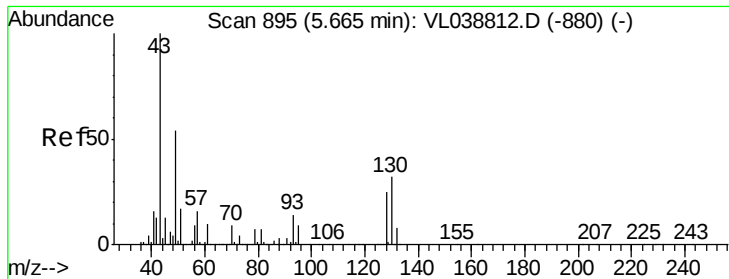
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL038851.D
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Operator : SY/AP
Sample : N2273-04DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
1160-1-SG-1DL

Quant Time: Apr 11 05:15:56 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: 5.70 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 7 Apr 2022 21:30

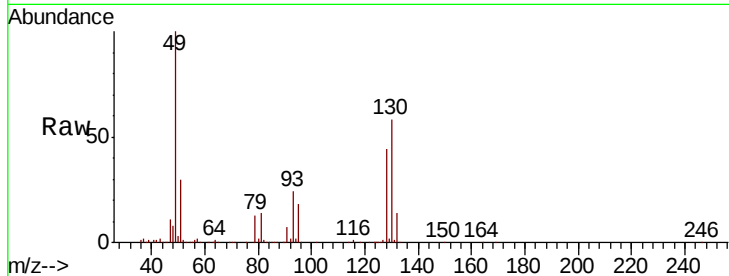
Tot Ion: 49 Resp: 1207352

Ion Ratio Lower Upper

49 100

128 46.9 24.1 72.3

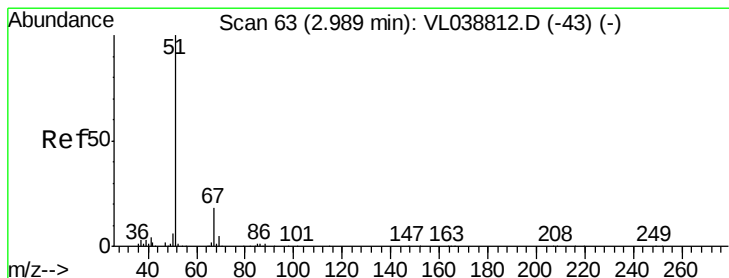
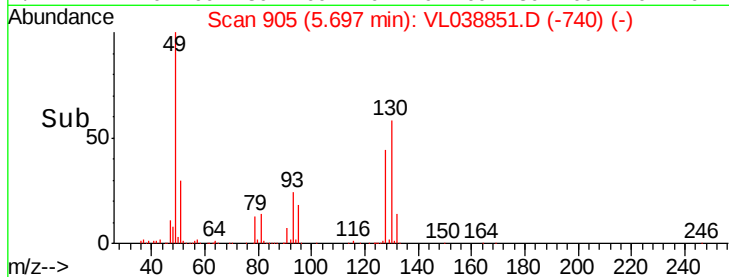
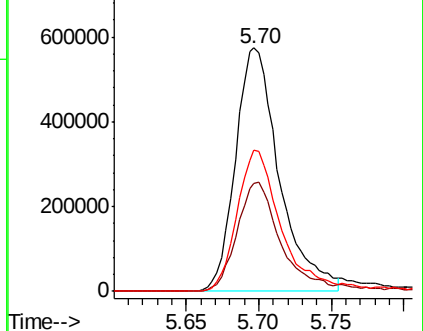
130 60.6 30.9 92.8



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



#3

Chlorodifluoromethane

Concen: 0.082 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL038851.D

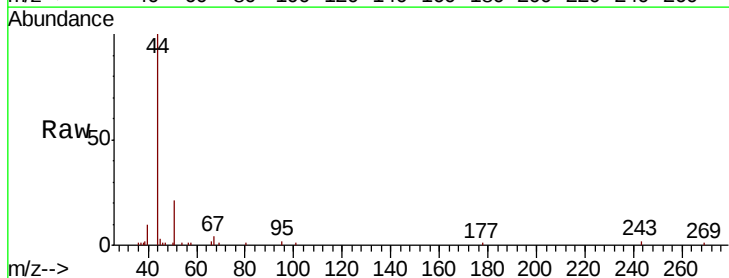
Acq: 7 Apr 2022 21:30

Tgt Ion: 51 Resp: 12064

Ion Ratio Lower Upper

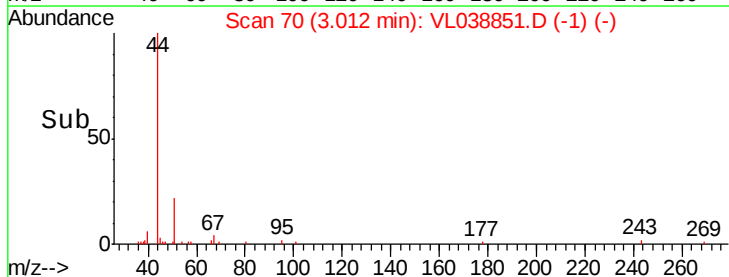
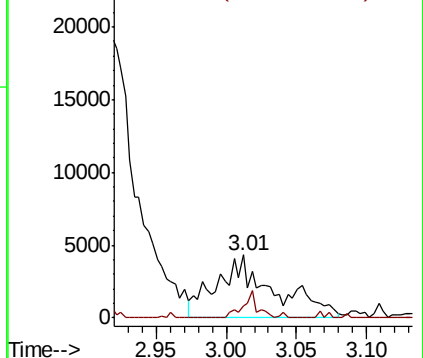
51 100

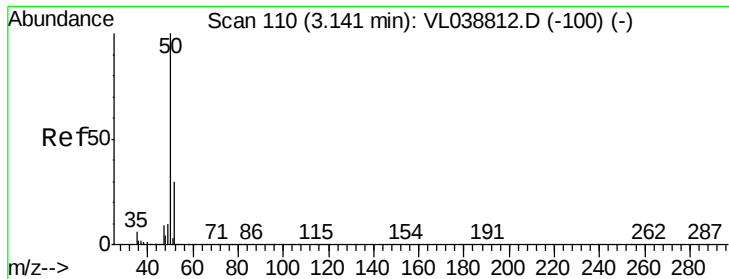
67 11.5 13.4 20.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.049 ppbv

RT: 3.16 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

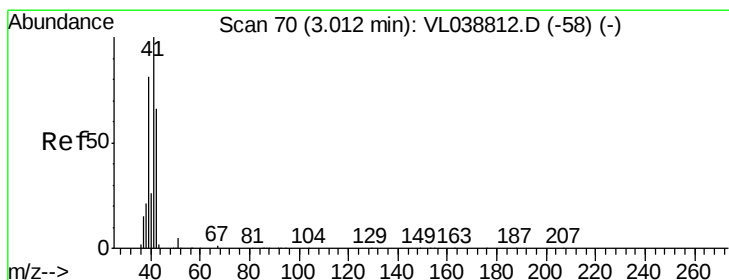
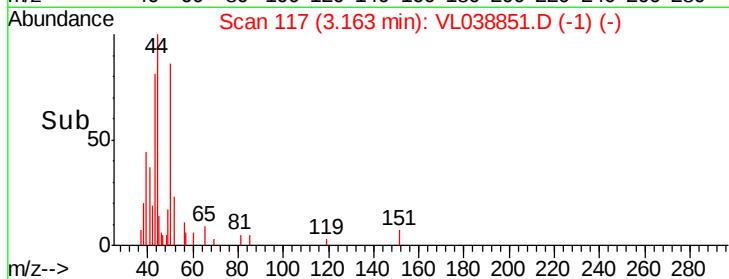
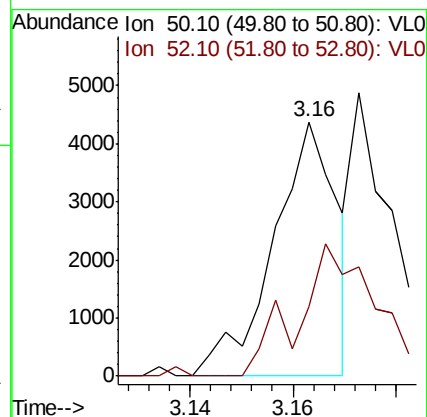
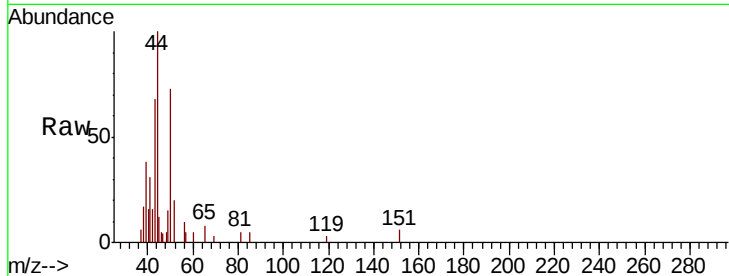
Acq: 7 Apr 2022 21:30

Tot Ion: 50 Resp: 3735

Ion Ratio Lower Upper

50 100

52 27.2 24.3 36.5



#9

Propene

Concen: 9.410 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.04 min

Lab File: VL038851.D

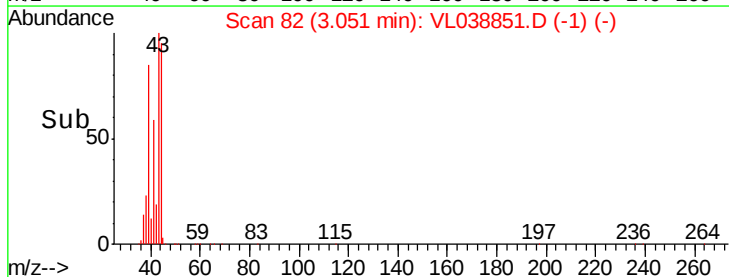
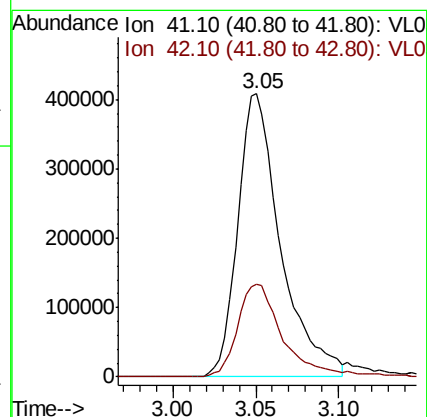
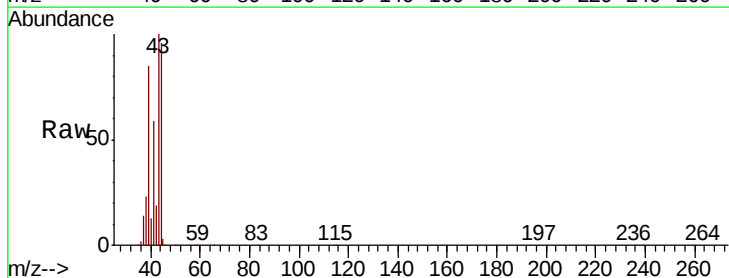
Acq: 7 Apr 2022 21:30

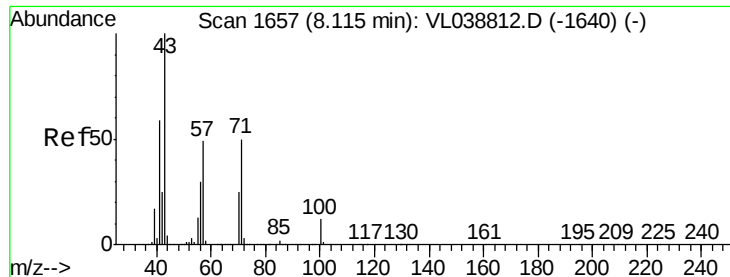
Tgt Ion: 41 Resp: 733611

Ion Ratio Lower Upper

41 100

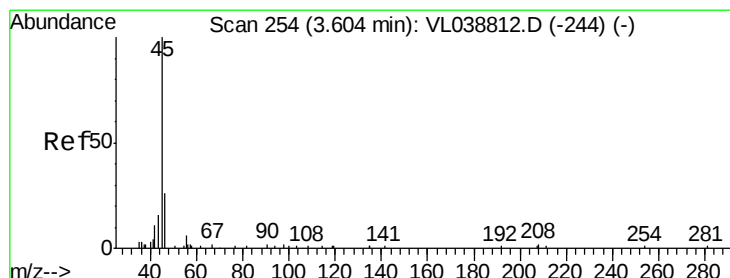
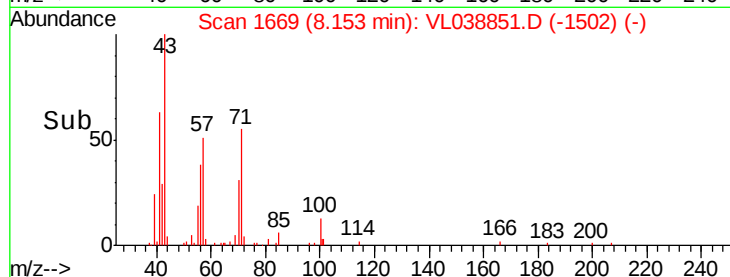
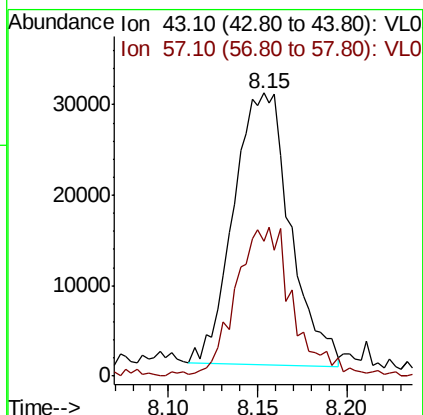
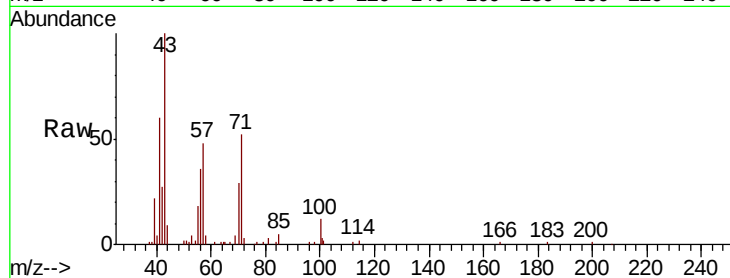
42 35.0 54.2 81.4#





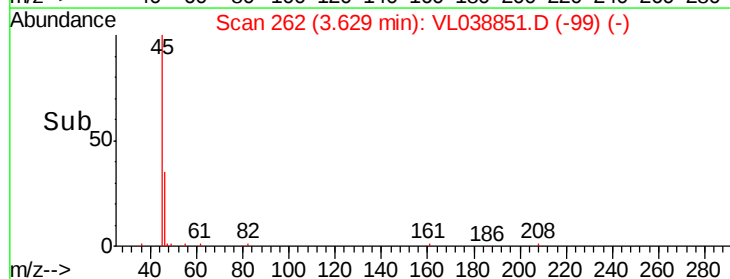
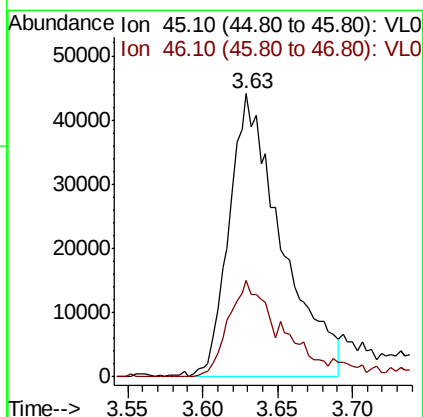
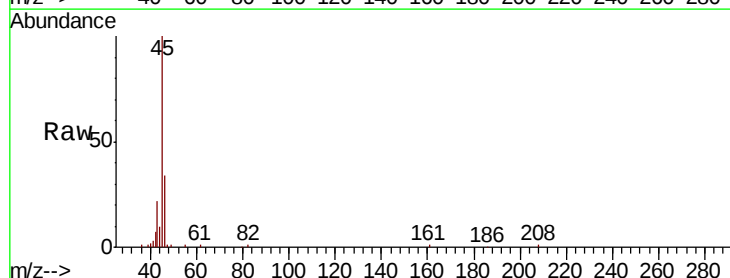
#10
 Heptane
 Concen: 0.340 ppbv
 RT: 8.15
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 21:30

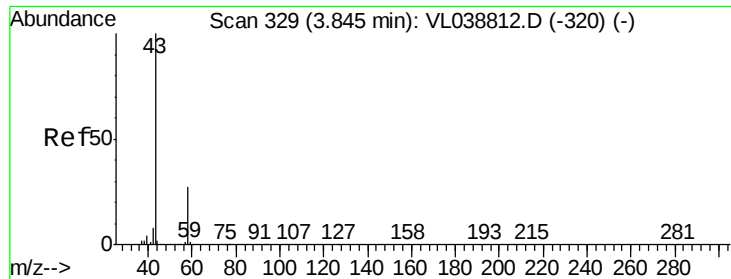
Tot Ion: 43 Resp: 66759
 Ion Ratio Lower Upper
 43 100
 57 56.2 39.3 58.9



#13
 Ethanol
 Concen: 22.735 ppbv
 RT: 3.63 min Scan# 262
 Delta R.T. 0.03 min
 Lab File: VL038851.D
 Acq: 7 Apr 2022 21:30

Tgt Ion: 45 Resp: 107712
 Ion Ratio Lower Upper
 45 100
 46 36.9 0.0 0.0#





#15

Acetone

Concen: 91.145 ppbv

RT: 3.87

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

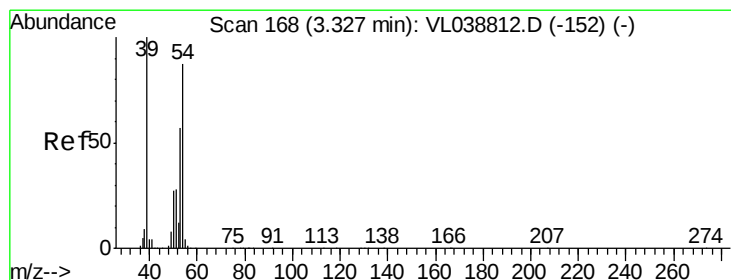
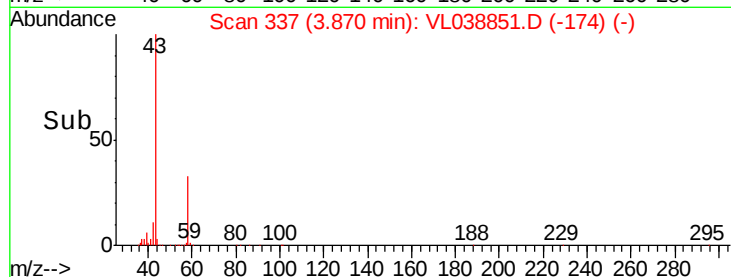
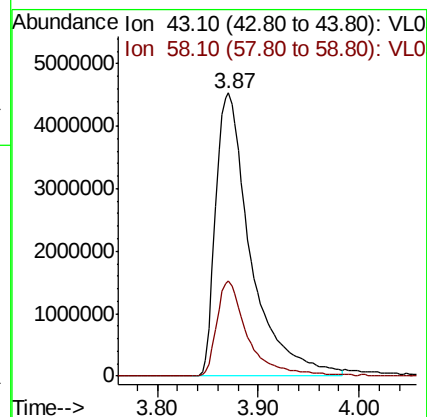
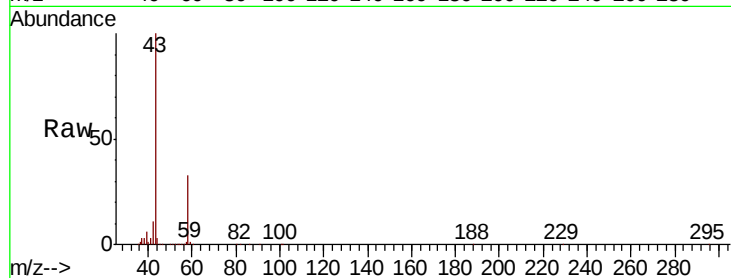
Acq: 7 Apr 2022 21:30

Tot Ion: 43 Resp: 10955873

Ion Ratio Lower Upper

43 100

58 30.7 22.5 33.7



#16

1,3-Butadiene

Concen: 8.024 ppbv

RT: 3.38 min Scan# 185

Delta R.T. 0.05 min

Lab File: VL038851.D

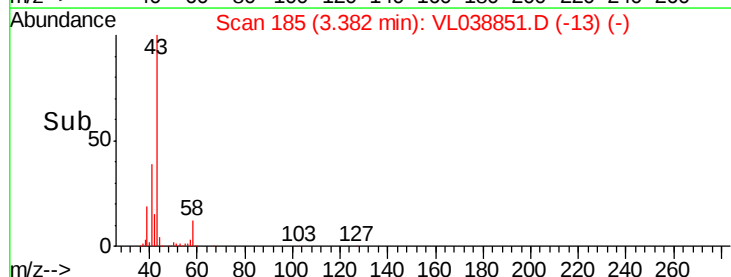
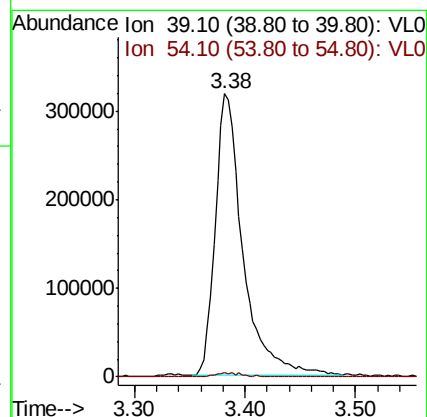
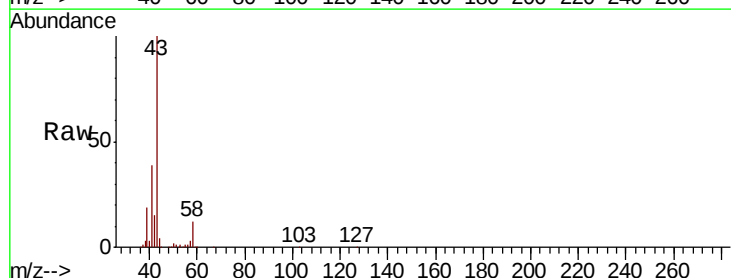
Acq: 7 Apr 2022 21:30

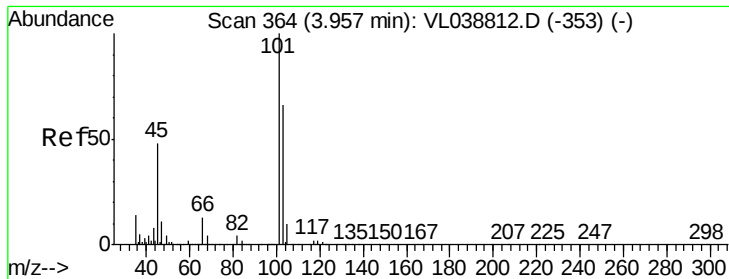
Tgt Ion: 39 Resp: 551405

Ion Ratio Lower Upper

39 100

54 1.6 64.8 97.2#





#19

Isopropyl Alcohol

Concen: 1.013 ppbv

RT: 4.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

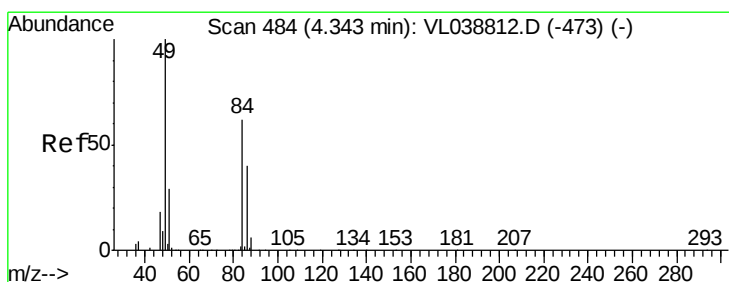
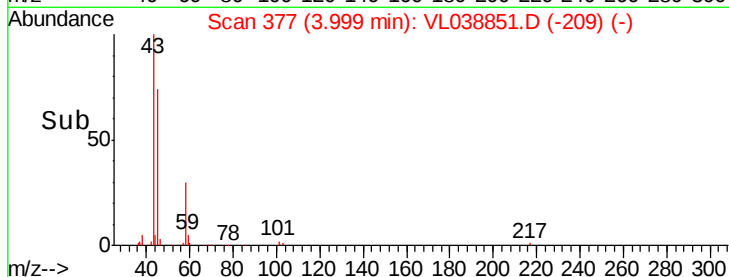
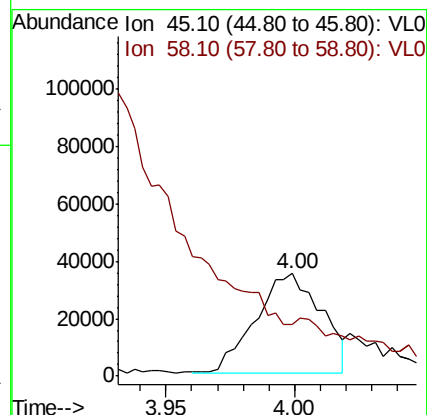
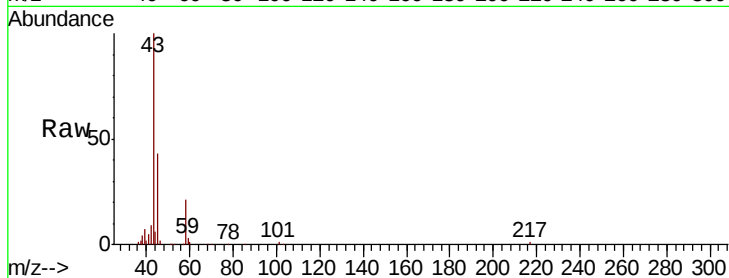
Acq: 7 Apr 2022 21:30 1160-1-SG-1DL

Tot Ion: 45 Resp: 62209

Ion Ratio Lower Upper

45 100

58 0.0 0.0 0.0



#20

Methylene Chloride

Concen: 1.778 ppbv

RT: 4.37 min Scan# 493

Delta R.T. 0.03 min

Lab File: VL038851.D

Acq: 7 Apr 2022 21:30

Tgt Ion: 84 Resp: 77496

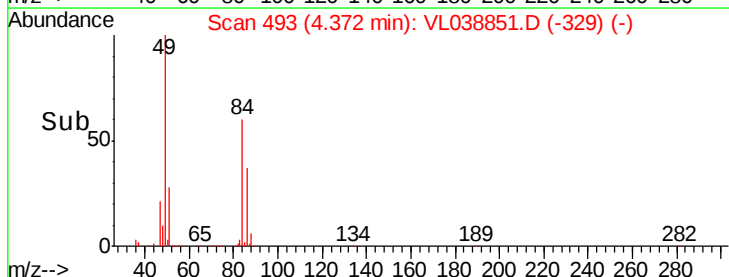
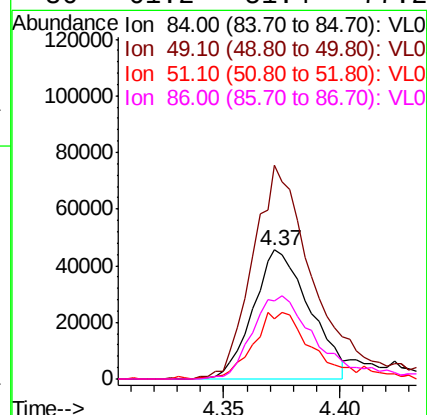
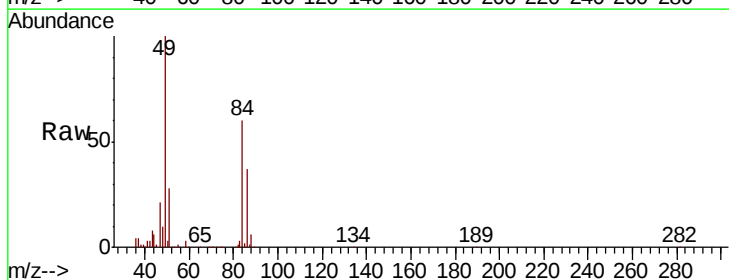
Ion Ratio Lower Upper

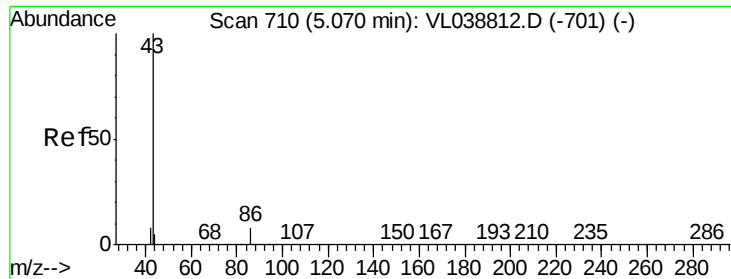
84 100

49 166.0 129.4 194.0

51 47.2 37.4 56.2

86 61.2 51.4 77.2





#23

Vinyl Acetate

Concen: 0.045 ppbv

RT: 5.09 Instrument: MSVOA_1

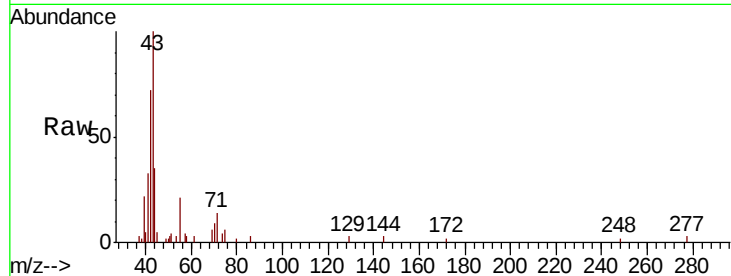
Delta R.T.

Lab File: ClientSampleId:

Acq: 7 Apr 2022 21:30

Tot Ion: 43 Resp: 5218

Ion	Ratio	Lower	Upper
43	100		
86	1.6	5.8	8.6#
42	46.9	7.8	11.6#
44	11.8	3.6	5.4#

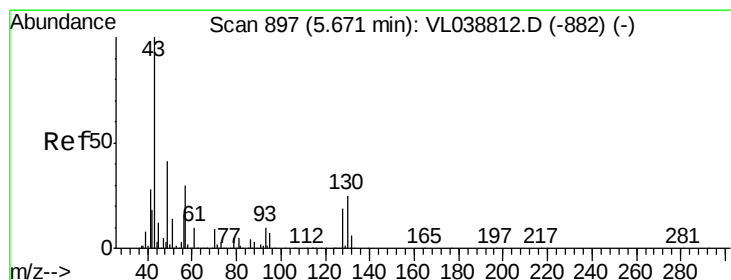
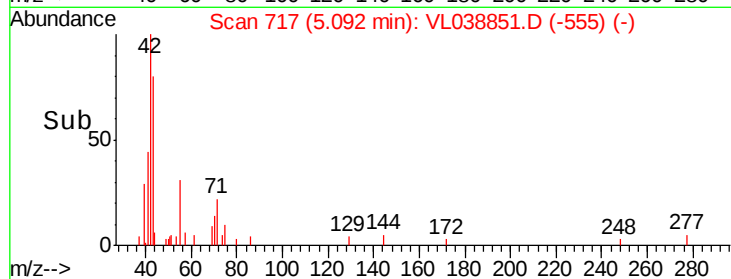
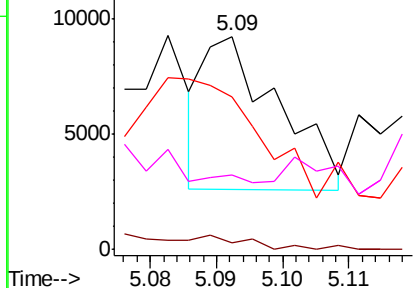


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.305 ppbv

RT: 5.72 min Scan# 911

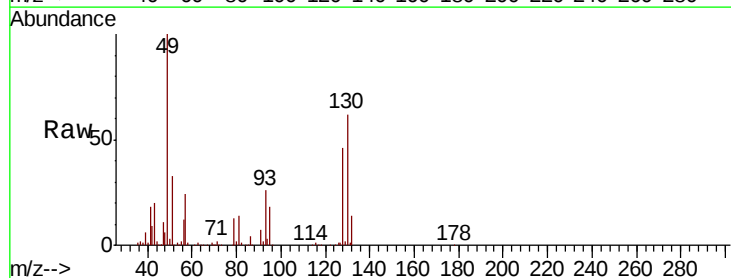
Delta R.T. 0.04 min

Lab File: VL038851.D

Acq: 7 Apr 2022 21:30

Tgt Ion: 43 Resp: 93082

Ion	Ratio	Lower	Upper
43	100		
45	4.9	8.4	12.6#
61	2.6	7.9	11.9#
70	3.1	5.6	8.4#

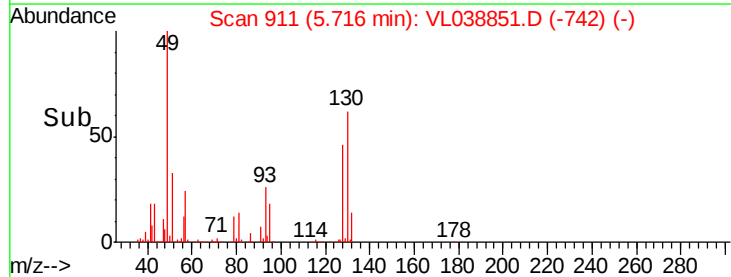
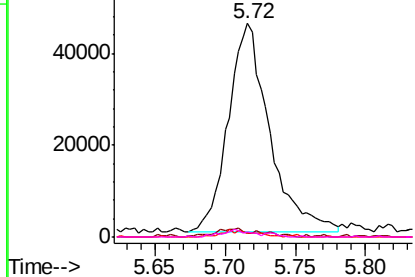


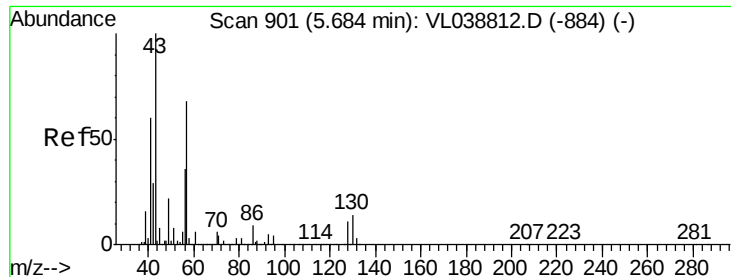
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

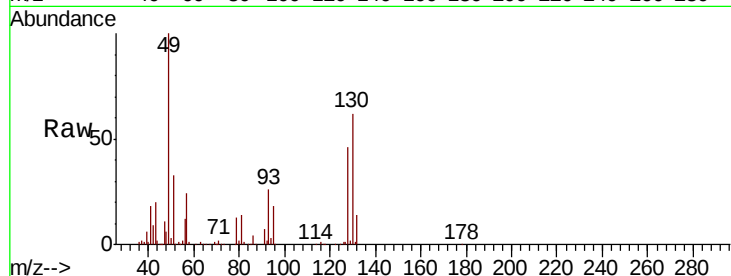
Ion 70.10 (69.80 to 70.80): VL0





#26
Hexane
Concen: 0.786 ppbv
RT: 5.72
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 21:30

Tot Ion:	57	Resp:	109085
Ion	Ratio	Lower	Upper
57	100		
41	87.9	72.0	108.0
43	93.2	186.6	280.0#
56	50.6	42.8	64.2



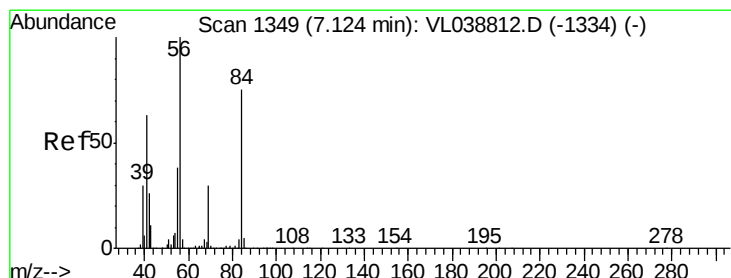
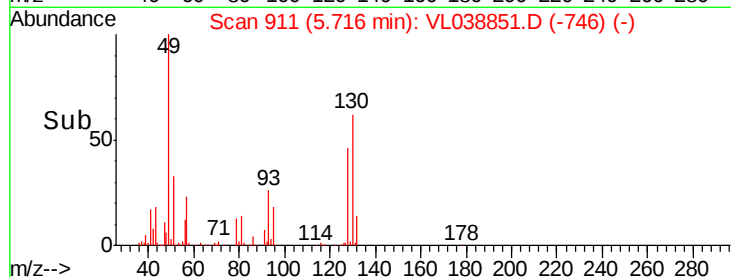
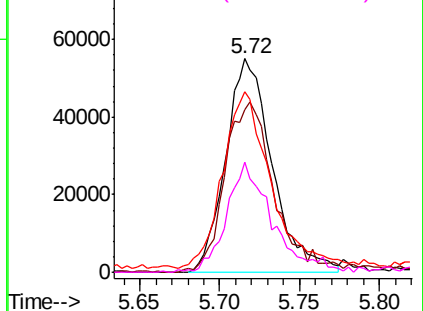
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

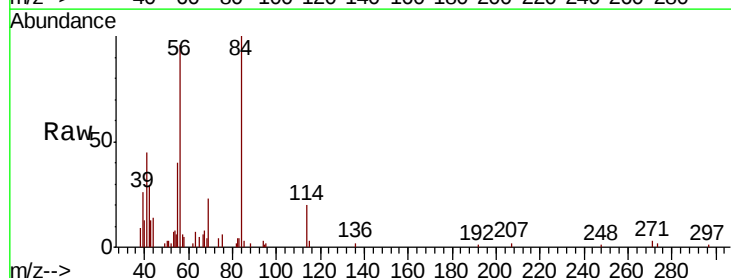
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#30
Cyclohexane
Concen: 0.096 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. 0.04 min
Lab File: VL038851.D
Acq: 7 Apr 2022 21:30

Tgt Ion:	84	Resp:	11783
Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.4	171.6#
41	114.0	69.0	103.4#

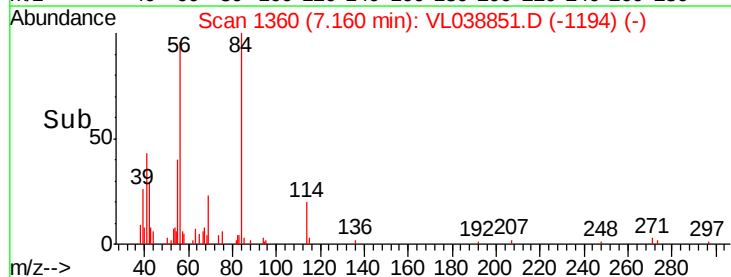
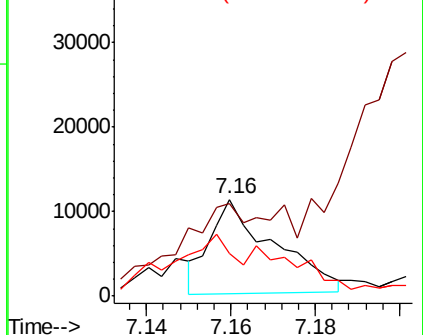


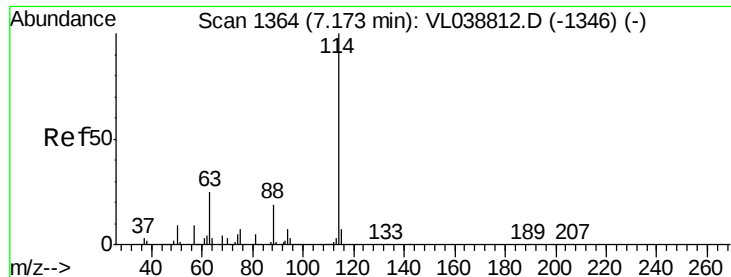
Abundance

Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 Instrument: MSVOA_1

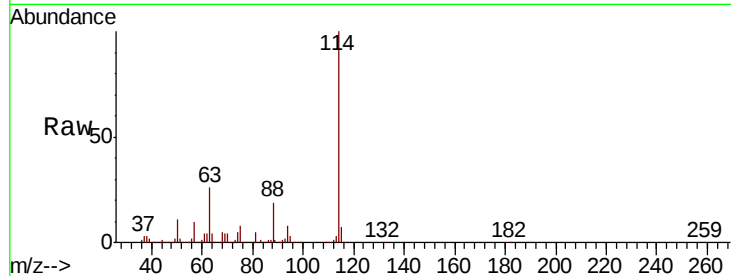
Delta R.T. ClientSampleId:

Lab File: 1160-1-SG-1DL

Acq: 7 Apr 2022 21:30

Tot Ion:114 Resp: 3012461

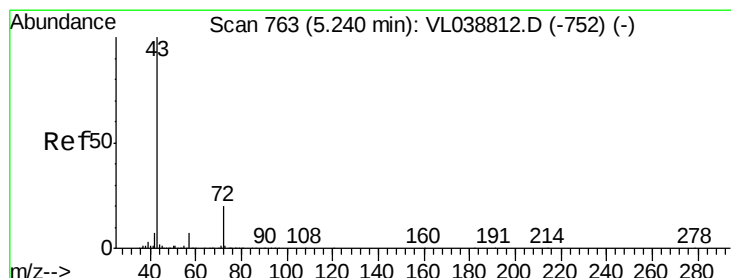
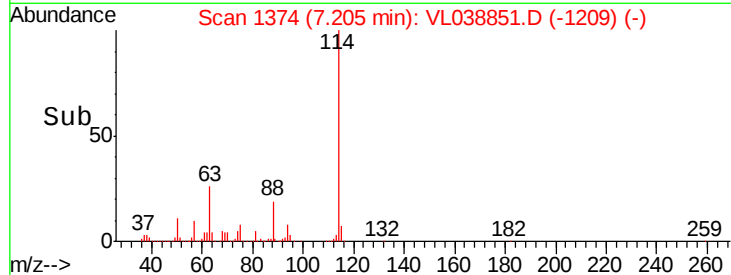
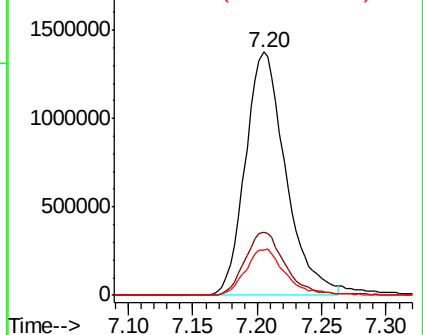
Ion	Ratio	Lower	Upper
114	100		
63	26.4	19.8	29.8
88	19.2	14.2	21.4



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: 0.095 ppbv

RT: 5.28 min Scan# 774

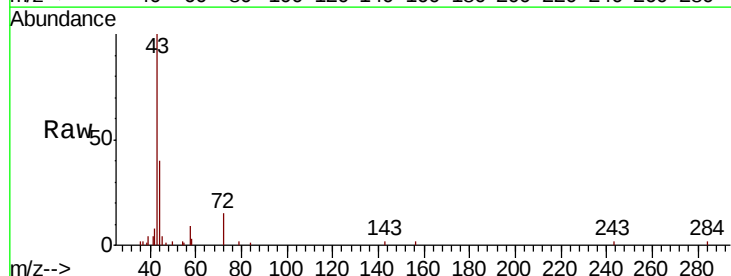
Delta R.T. 0.04 min

Lab File: VL038851.D

Acq: 7 Apr 2022 21:30

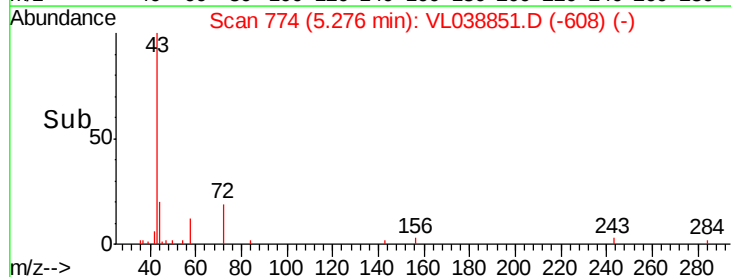
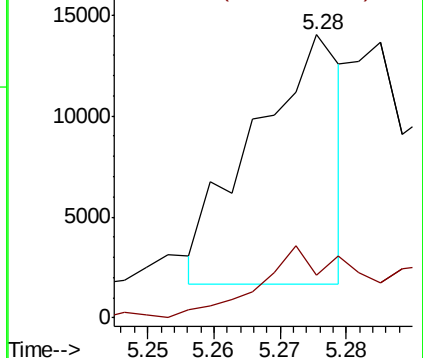
Tgt Ion: 43 Resp: 11352

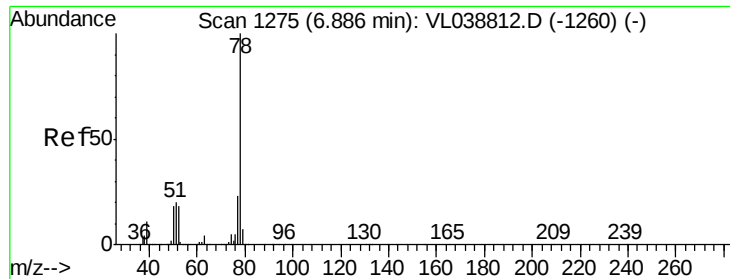
Ion	Ratio	Lower	Upper
43	100		
72	60.7	16.9	25.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

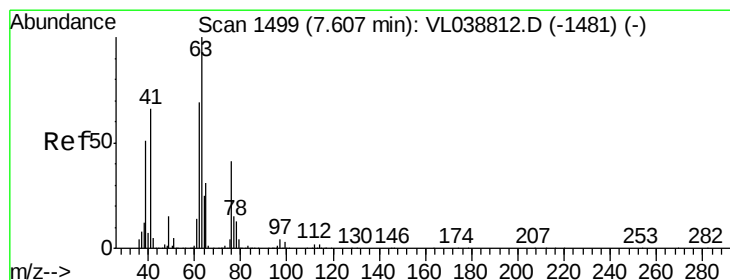
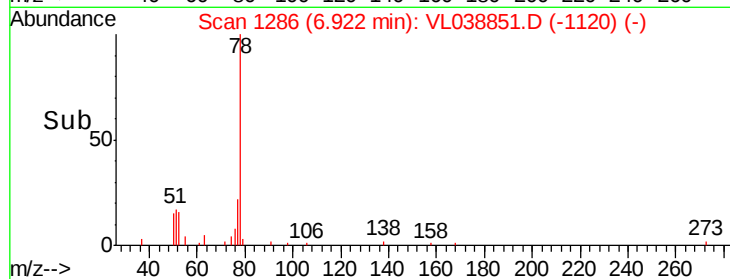
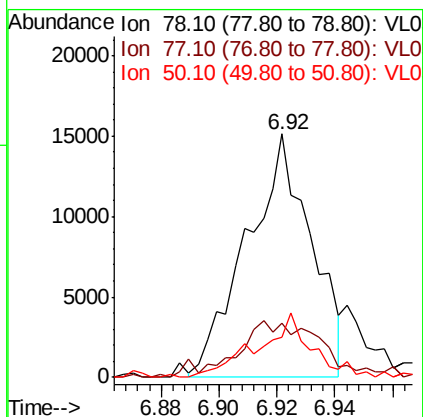
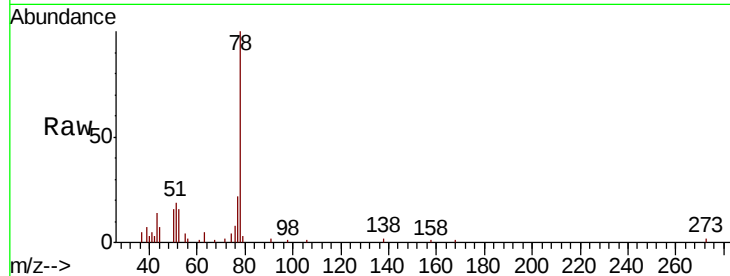
Ion 72.10 (71.80 to 72.80): VL0





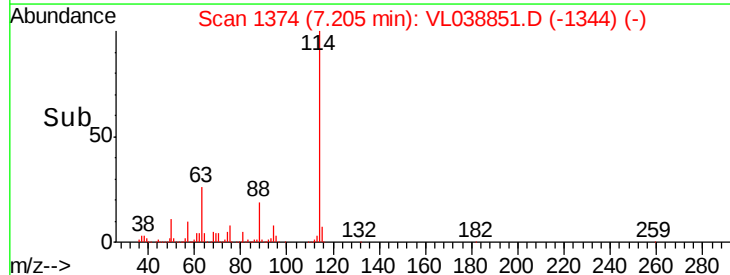
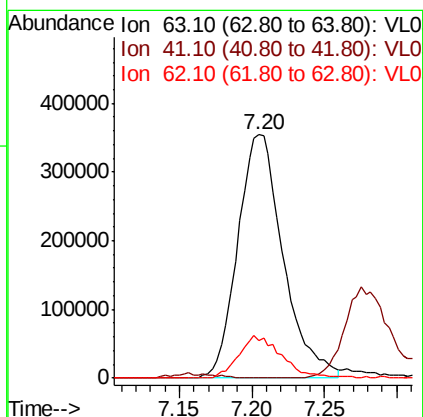
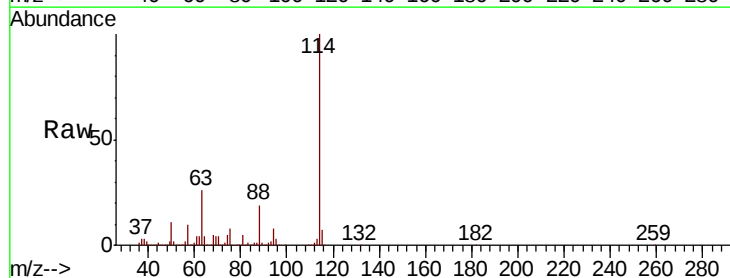
#36
Benzene
Concen: 0.085 ppbv
RT: 6.92
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 21:30

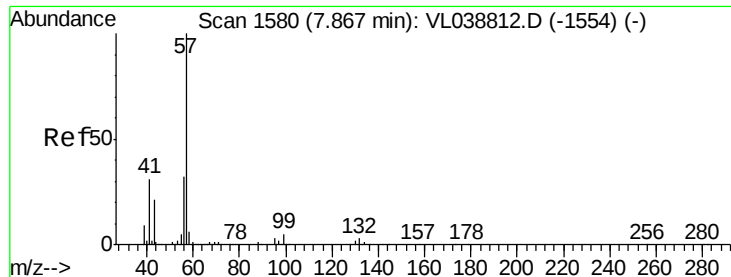
Tot Ion	Ratio	Lower	Upper
78	100		
77	18.0	18.2	27.2#
50	16.8	14.0	21.0



#39
1,2-Dichloropropane
Concen: 7.363 ppbv
RT: 7.20 min Scan# 1374
Delta R.T. -0.40 min
Lab File: VL038851.D
Acq: 7 Apr 2022 21:30

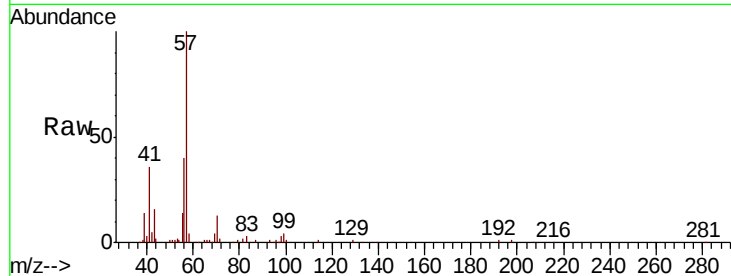
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	53.0	79.6#
62	15.2	55.0	82.4#



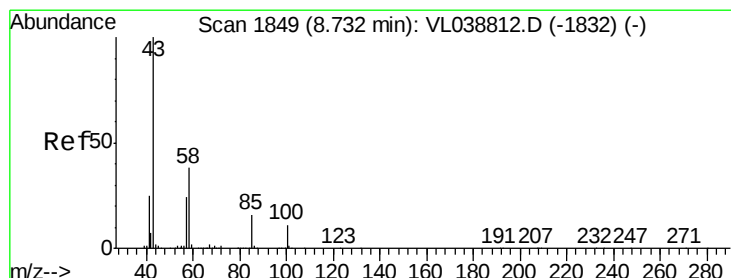
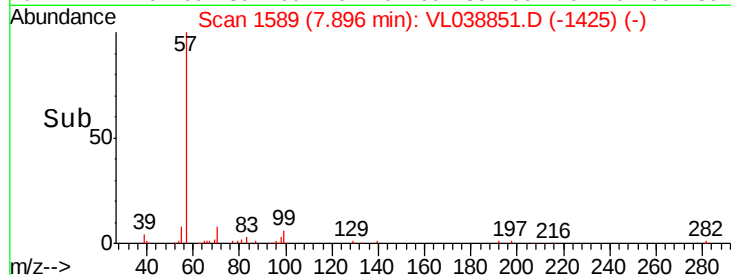
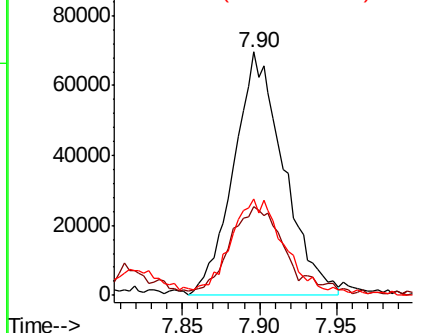


#44
 2,2,4-Trimethylpentane
 Concen: 0.334 ppbv
 RT: 7.90
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 1160-1-SG-1DL
 Acq: 7 Apr 2022 21:30

Tot Ion	57	Resp	155168
Ion Ratio	100	Lower	Upper
41	40.9	25.0	37.4#
56	44.7	25.3	37.9#

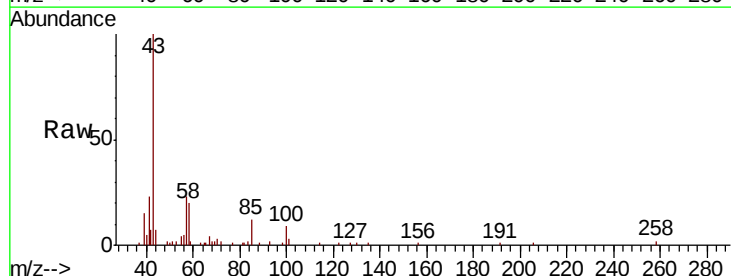


Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0

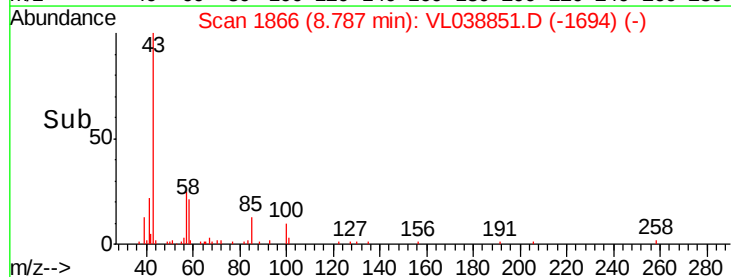
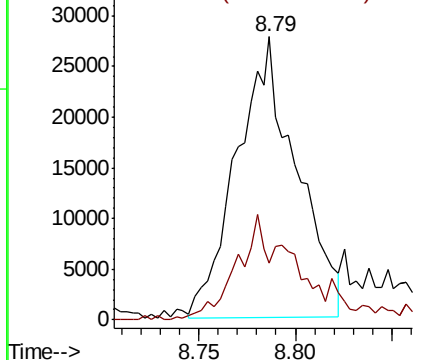


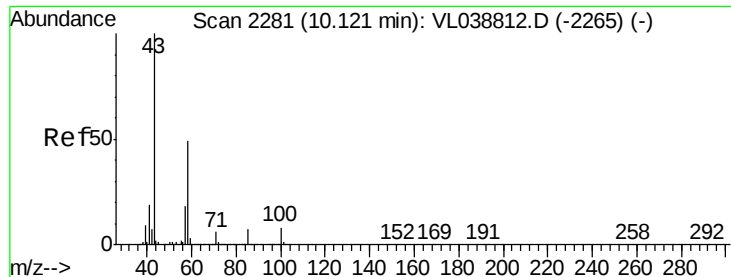
#50
 4-Methyl-2-Pentanone
 Concen: 0.223 ppbv
 RT: 8.79 min Scan# 1866
 Delta R.T. 0.05 min
 Lab File: VL038851.D
 Acq: 7 Apr 2022 21:30

Tgt Ion	43	Resp	59623
Ion Ratio	100	Lower	Upper
58	38.8	29.0	43.6



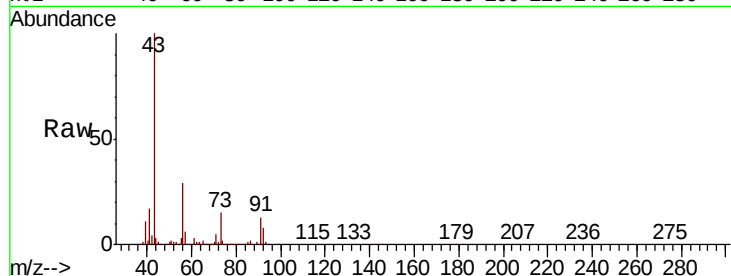
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0



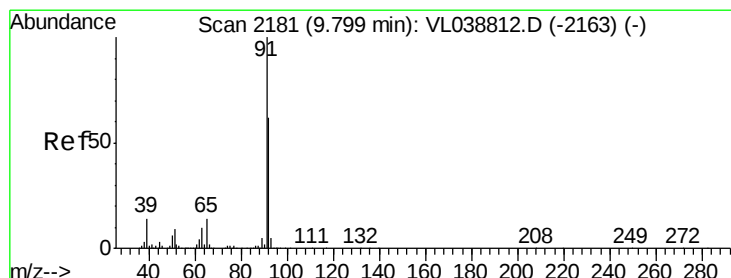
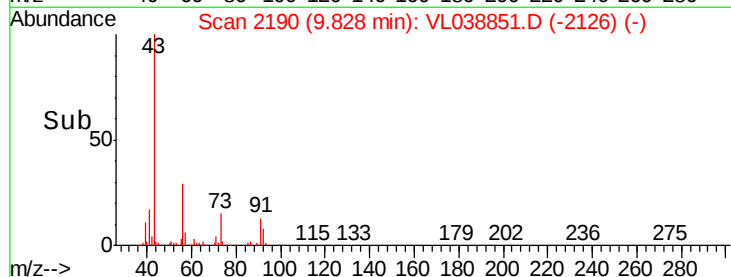
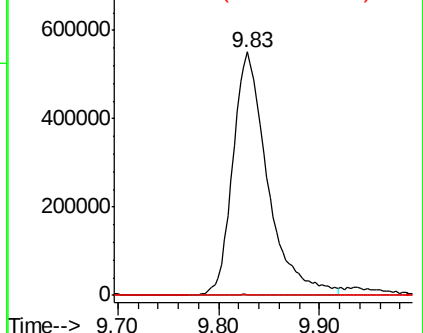


#51
2-Hexanone
Concen: 6.541 ppbv
RT: 9.83
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 21:30

Tot Ion: 43 Resp: 1319591
Ion Ratio Lower Upper
43 100
58 0.4 41.4 62.0#
98 0.0 0.1 0.1#

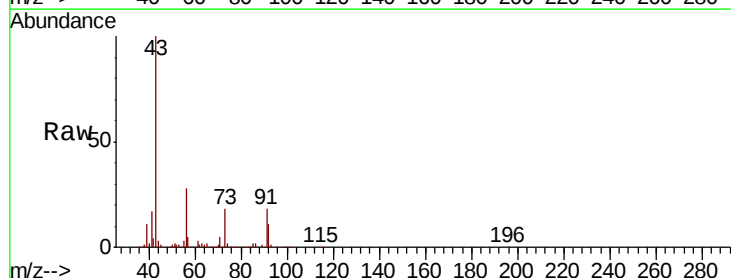


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

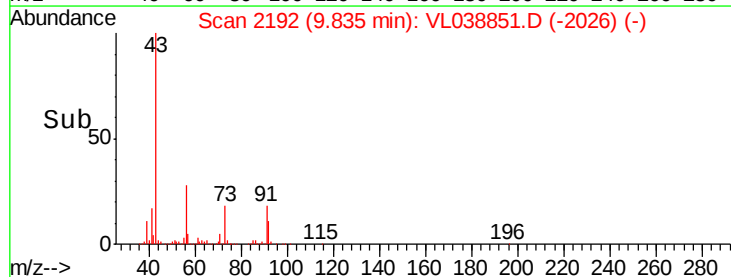
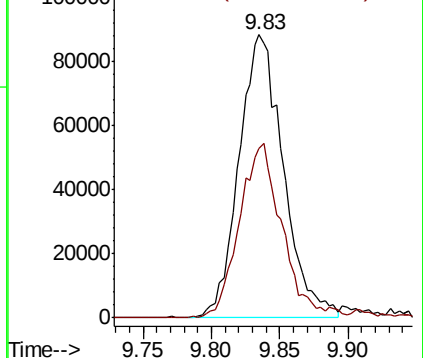


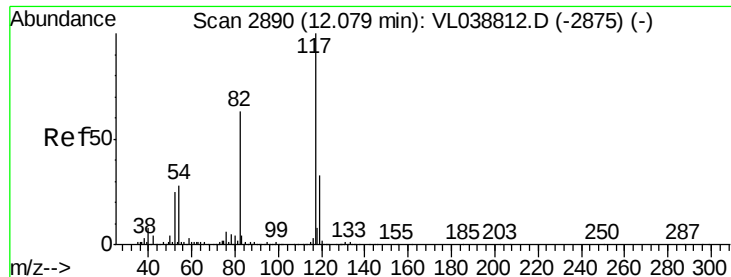
#53
Toluene
Concen: 0.632 ppbv
RT: 9.83 min Scan# 2192
Delta R.T. 0.04 min
Lab File: VL038851.D
Acq: 7 Apr 2022 21:30

Tgt Ion: 91 Resp: 199784
Ion Ratio Lower Upper
91 100
92 61.7 49.2 73.8



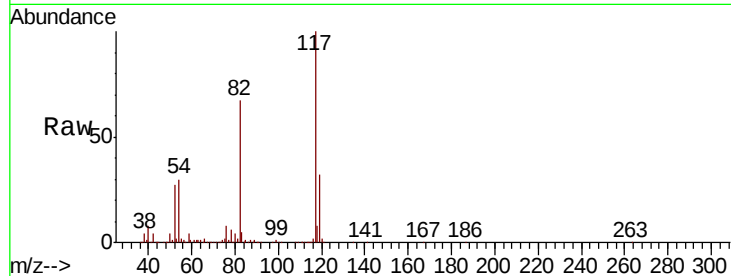
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0



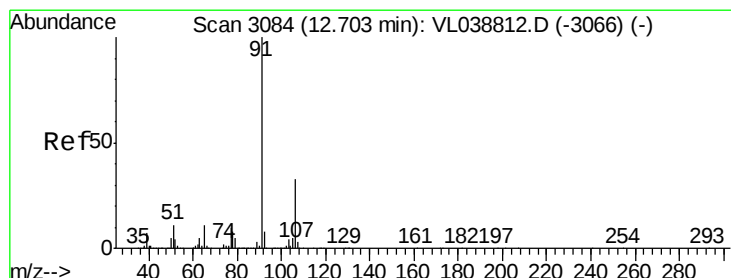
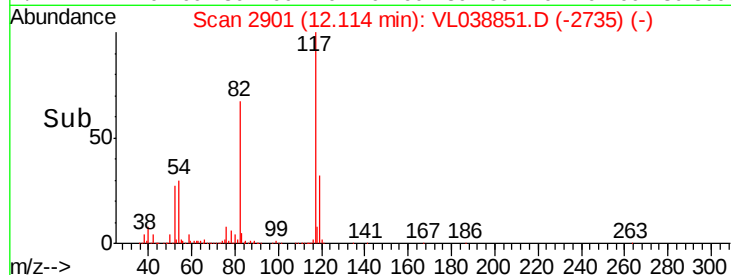
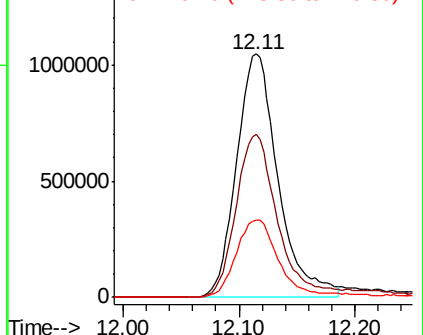


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 7 Apr 2022 21:30

Tot Ion: 117 Resp: 2607906
Ion Ratio Lower Upper
117 100
82 73.9 53.0 79.6
119 34.8 24.9 37.3

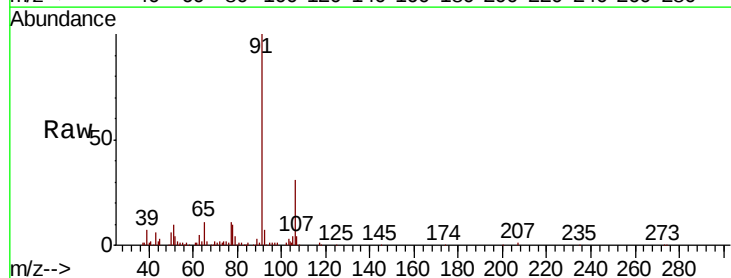


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

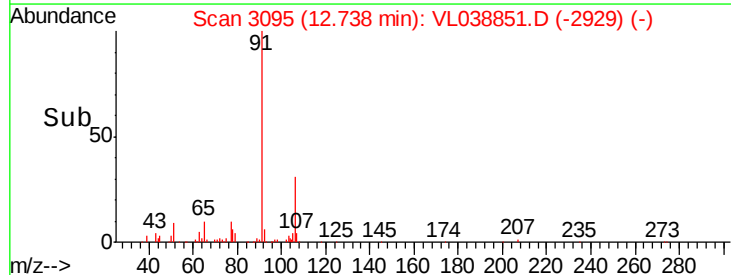
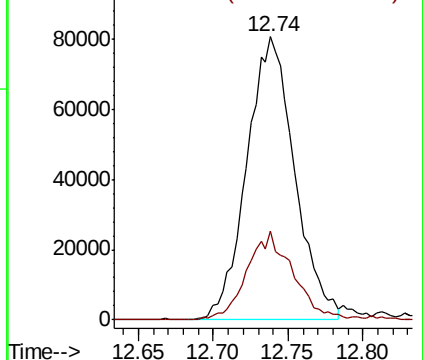


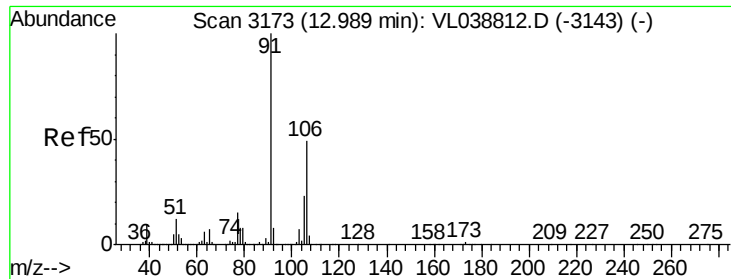
#58
Ethyl Benzene
Concen: 0.460 ppbv
RT: 12.74 min Scan# 3095
Delta R.T.: 0.04 min
Lab File: VL038851.D
Acq: 7 Apr 2022 21:30

Tgt Ion: 91 Resp: 179091
Ion Ratio Lower Upper
91 100
106 31.2 26.7 40.1



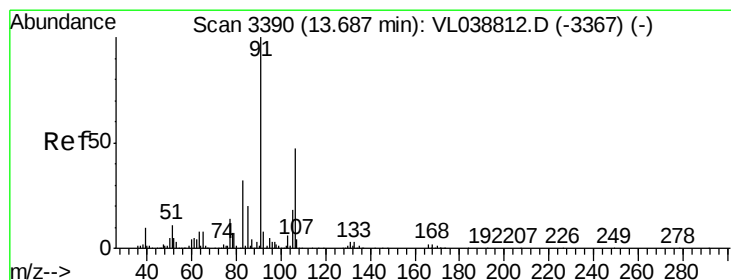
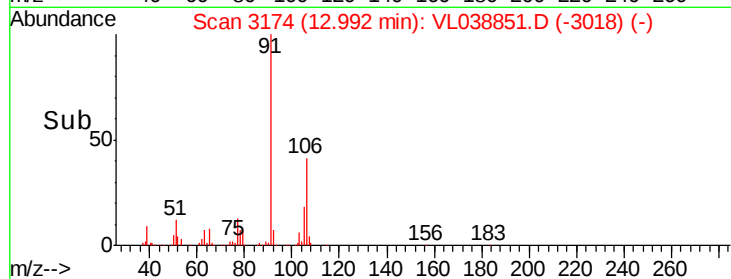
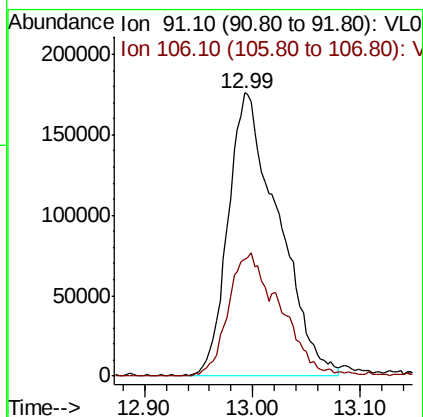
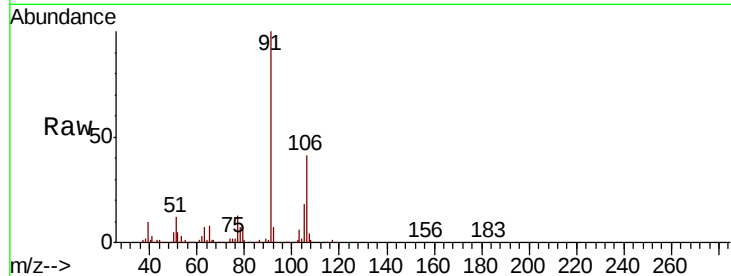
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





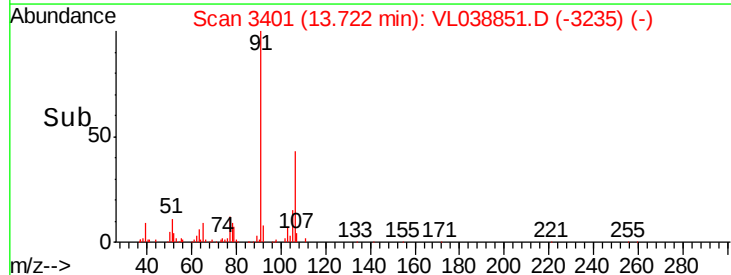
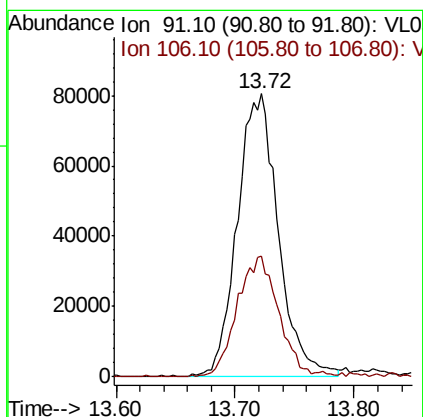
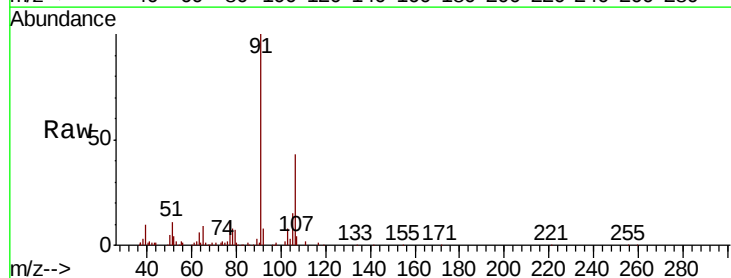
#59
m/p-Xylene
Concen: 1.731 ppbv
RT: 12.99 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 21:30

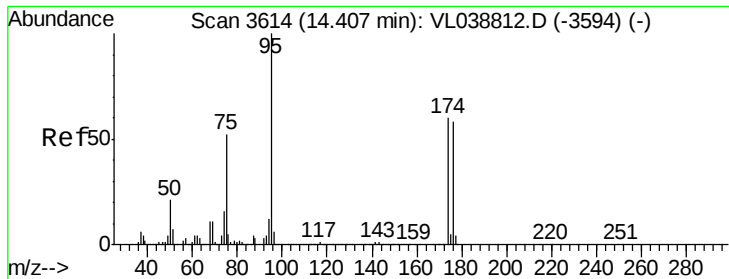
Tot Ion: 91 Resp: 566637
Ion Ratio Lower Upper
91 100
106 45.5 37.1 55.7



#60
o-Xylene
Concen: 0.626 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. 0.04 min
Lab File: VL038851.D
Acq: 7 Apr 2022 21:30

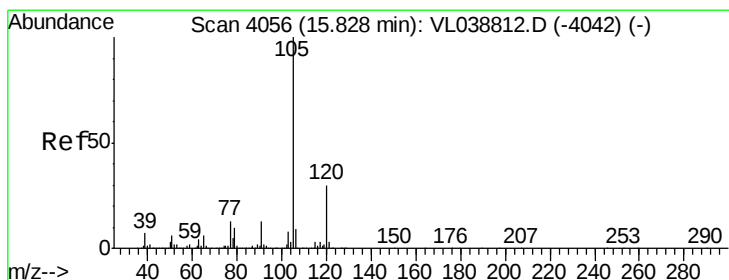
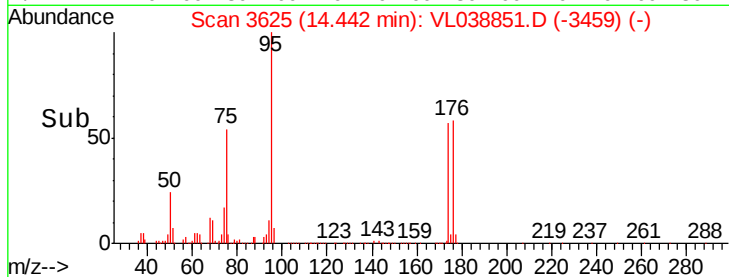
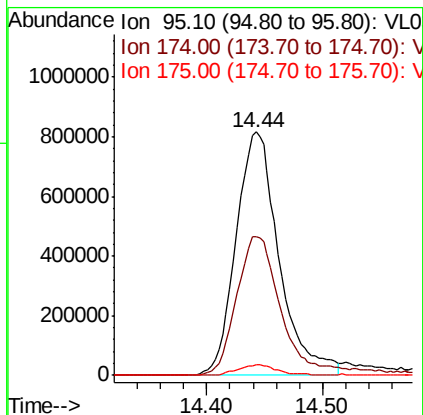
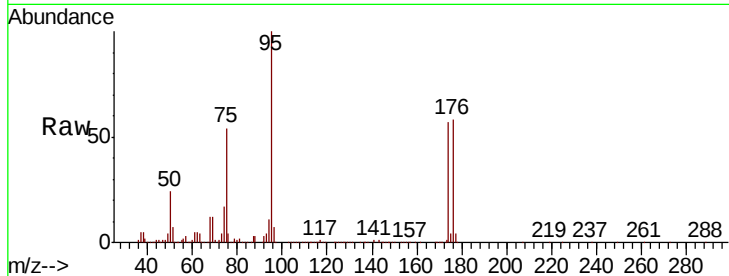
Tgt Ion: 91 Resp: 191786
Ion Ratio Lower Upper
91 100
106 43.5 23.8 71.4





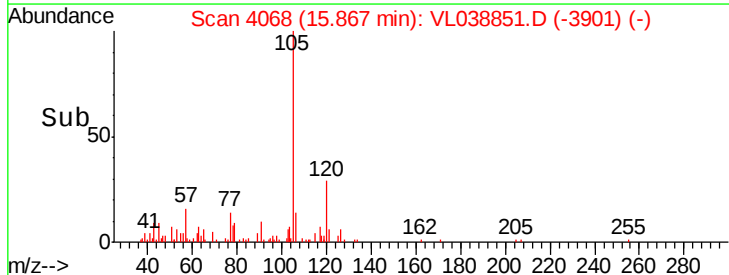
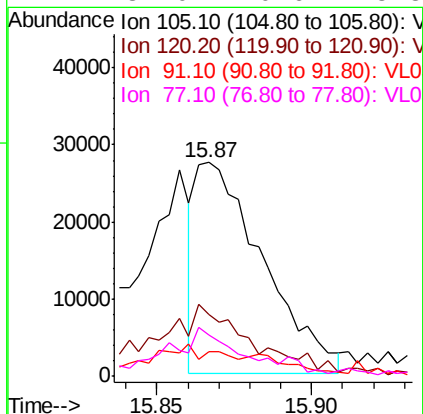
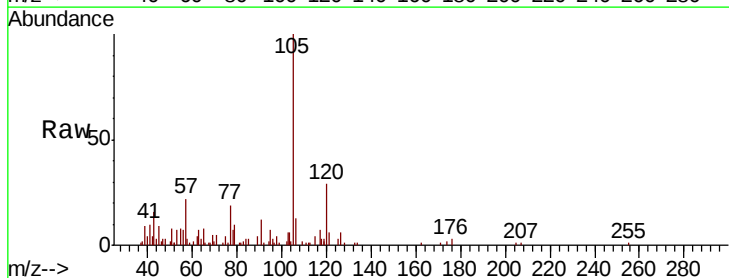
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.655 ppbv
 RT: 14.44 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 21:30

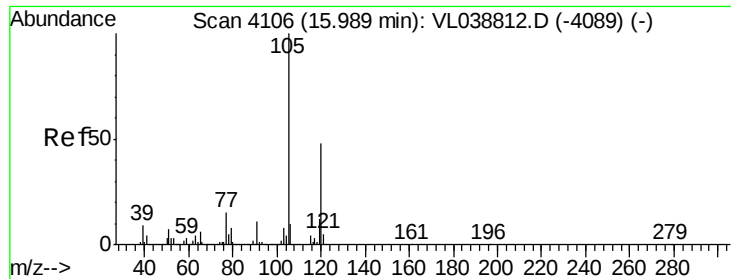
Tot Ion: 95 Resp: 2107817
 Ion Ratio Lower Upper
 95 100
 174 62.7 52.0 78.0
 175 4.2 4.0 6.0



#72
 4-Ethyltoluene
 Concen: 0.113 ppbv
 RT: 15.87 min Scan# 4068
 Delta R.T. 0.04 min
 Lab File: VL038851.D
 Acq: 7 Apr 2022 21:30

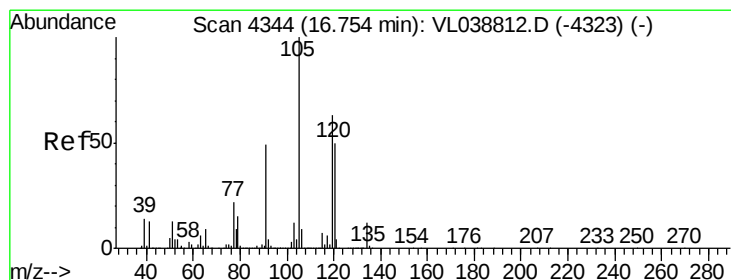
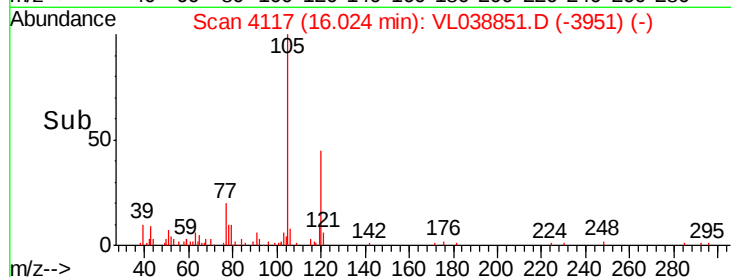
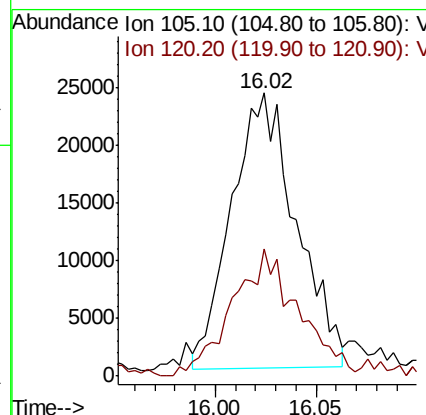
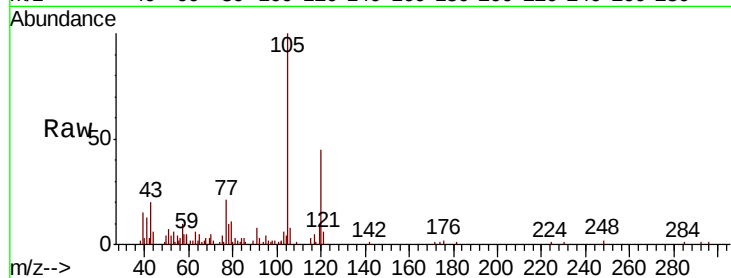
Tgt Ion: 105 Resp: 41288
 Ion Ratio Lower Upper
 105 100
 120 50.3 24.3 36.5#
 91 21.6 9.4 14.2#
 77 32.0 10.6 15.8#





#73
 1,3,5-Trimethylbenzene
 Concen: 0.163 ppbv
 RT: 16.02 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : 1160-1-SG-1DL
 Acq: 7 Apr 2022 21:30

Tot Ion:105 Resp: 53476
 Ion Ratio Lower Upper
 105 100
 120 43.6 38.7 58.1



#74
 1,2,4-Trimethylbenzene
 Concen: 0.476 ppbv
 RT: 16.79 min Scan# 4354
 Delta R.T. 0.03 min
 Lab File: VL038851.D
 Acq: 7 Apr 2022 21:30

Tgt Ion:105 Resp: 165518
 Ion Ratio Lower Upper
 105 100
 120 39.3 39.8 59.8#
 91 12.6 39.4 59.0#
 77 14.7 17.3 25.9#

