

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041922\
 Data File : VL038949.D
 Acq On : 19 Apr 2022 14:33
 Operator : SY/AP
 Sample : N2465-02DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

Quant Time: Apr 20 04:24:48 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	5.68	49	1124410	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	2796737	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	2463293	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	1947812	10.42	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

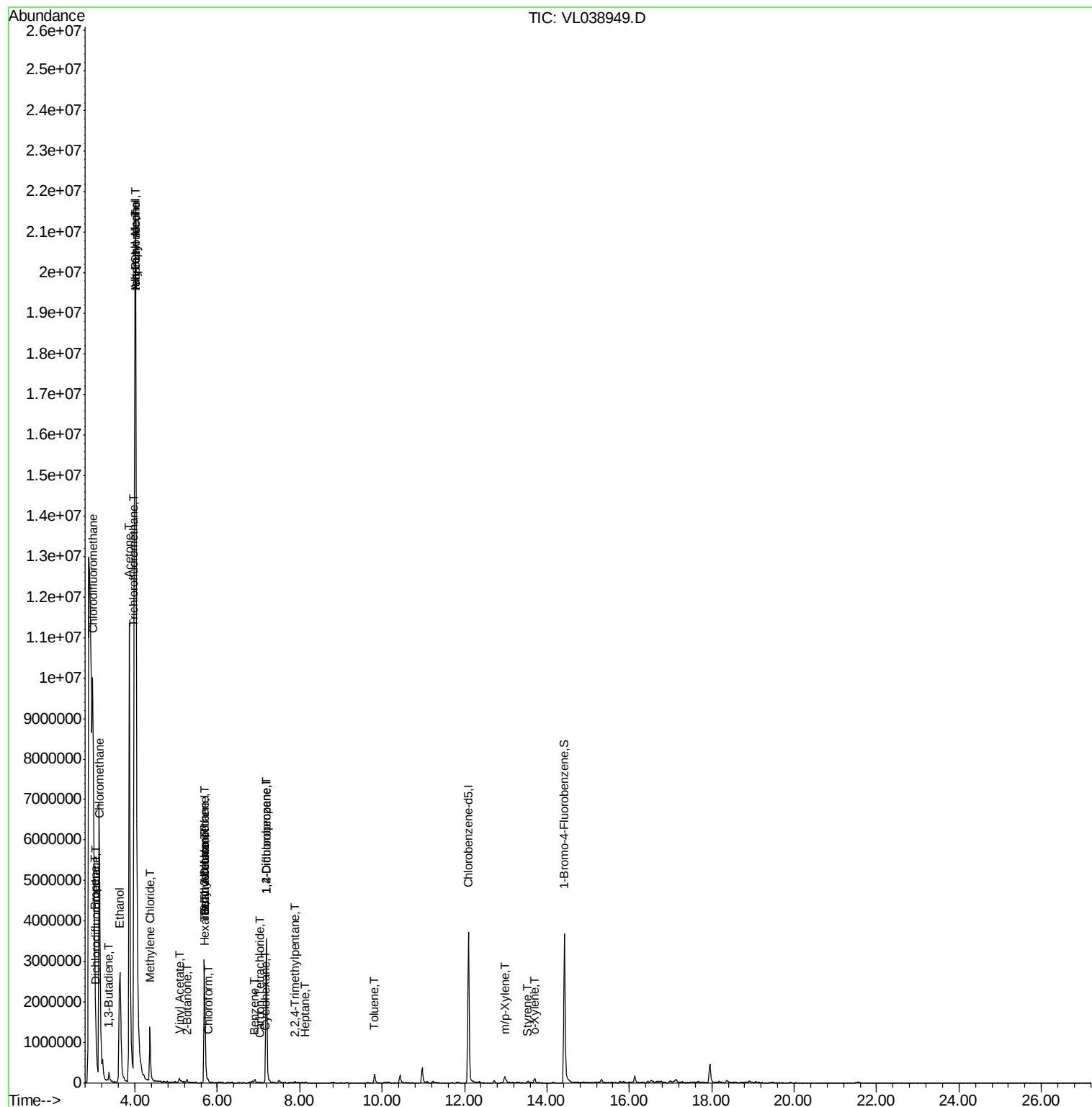
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	98648	0.619	ppbv	97
3) Chlorodifluoromethane	2.98	51	2781024	20.266	ppbv #	62
4) Chloromethane	3.15	50	35248	0.496	ppbv	100
9) Propene	3.03	41	65481	0.902	ppbv	85
10) Heptane	8.13	43	9993	0.055	ppbv	90
11) Trichlorofluoromethane	3.96	101	19689	0.154	ppbv	86
13) Ethanol	3.64	45	5406888	1225.447	ppbv #	100
15) Acetone	3.86	43	14048561	125.495	ppbv #	87
16) 1,3-Butadiene	3.36	39	9637	0.151	ppbv #	61
17) tert-Butyl alcohol	4.01	59	2882490	28.714	ppbv	94
19) Isopropyl Alcohol	4.01	45	37146689	649.246	ppbv #	100
20) Methylene Chloride	4.37	84	480381	11.832	ppbv	93
21) Allyl Chloride	4.01	41	7226023	86.211	ppbv #	75
23) Vinyl Acetate	5.08	43	51366	0.471	ppbv #	31
25) Ethyl Acetate	5.68	43	911366	3.209	ppbv #	97
26) Hexane	5.71	57	235994	1.825	ppbv #	39
29) Chloroform	5.77	83	33196	0.184	ppbv	98
30) Cyclohexane	7.15	84	9031	0.079	ppbv #	22
31) cis-1,2-Dichloroethene	5.68	61	93752	0.789	ppbv #	25
34) 2-Butanone	5.26	43	88038	0.797	ppbv	95
35) Carbon Tetrachloride	7.03	117	5690	0.034	ppbv #	90
36) Benzene	6.90	78	24566	0.097	ppbv	97
39) 1,2-Dichloropropane	7.19	63	717289	7.371	ppbv #	27
41) Tetrahydrofuran	5.70	42	88521	0.843	ppbv #	54
44) 2,2,4-Trimethylpentane	7.88	57	19949	0.046	ppbv #	59
53) Toluene	9.83	91	47143	0.161	ppbv #	20
59) m/p-Xylene	13.00	91	31782	0.103	ppbv #	30
60) o-Xylene	13.71	91	42742	0.148	ppbv #	29
61) Styrene	13.54	104	23153	0.131	ppbv #	83

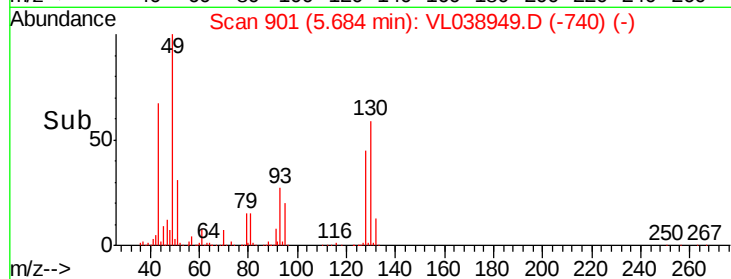
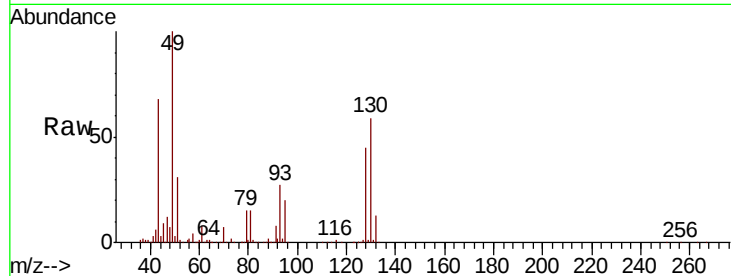
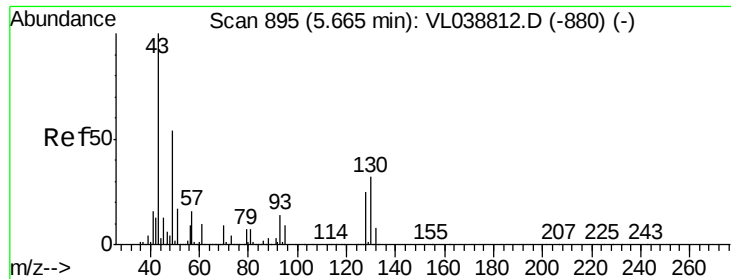
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 19 Apr 2022 14:33

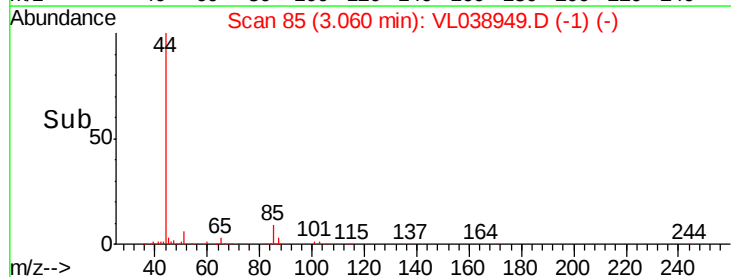
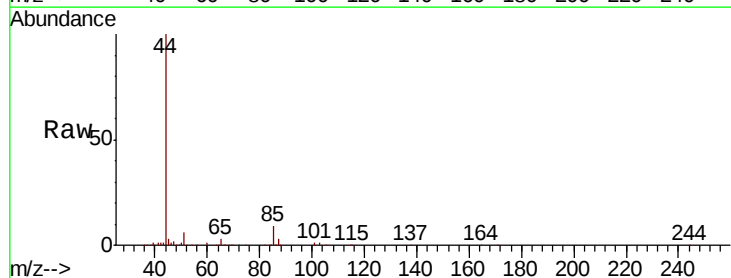
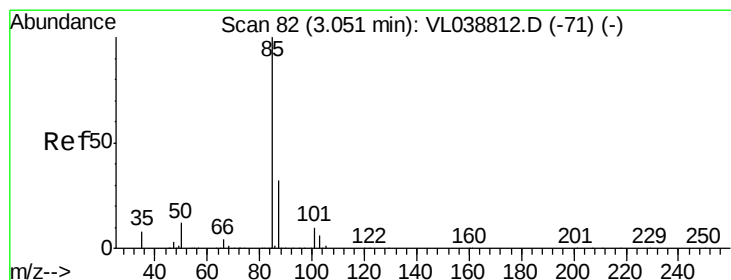
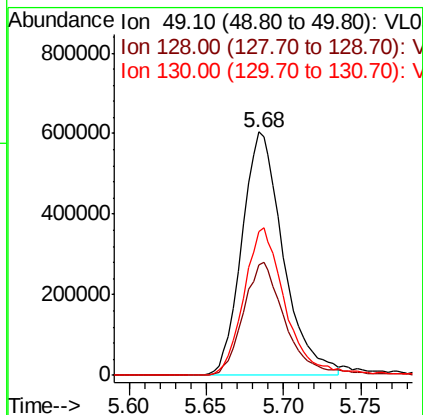
Tot Ion: 49 Resp: 1124410

Ion Ratio Lower Upper

49 100

128 47.6 24.1 72.3

130 61.9 30.9 92.8



#2

Dichlorodifluoromethane

Concen: 0.619 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL038949.D

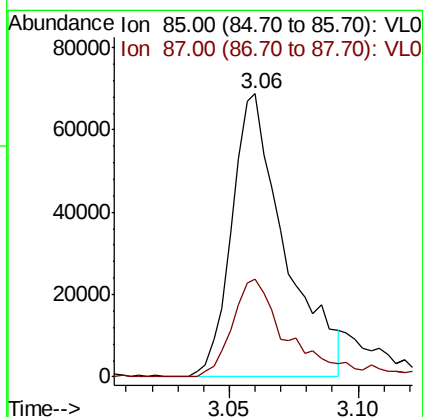
Acq: 19 Apr 2022 14:33

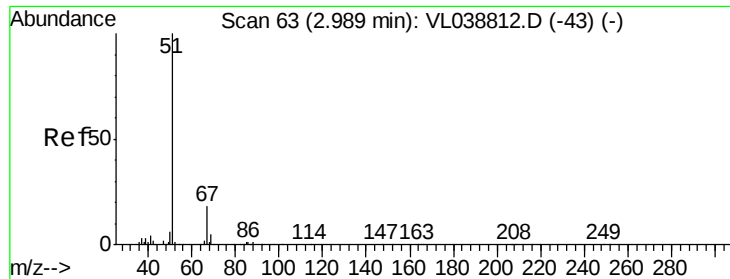
Tgt Ion: 85 Resp: 98648

Ion Ratio Lower Upper

85 100

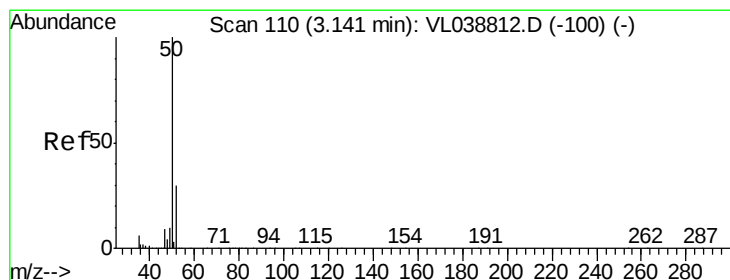
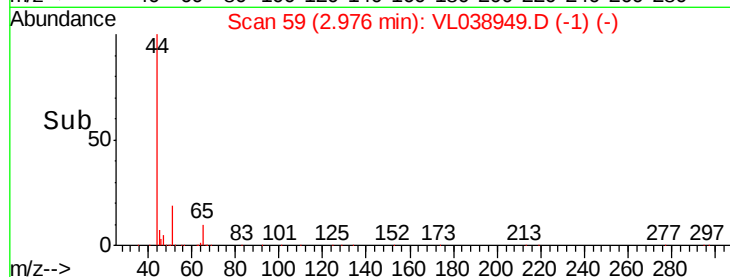
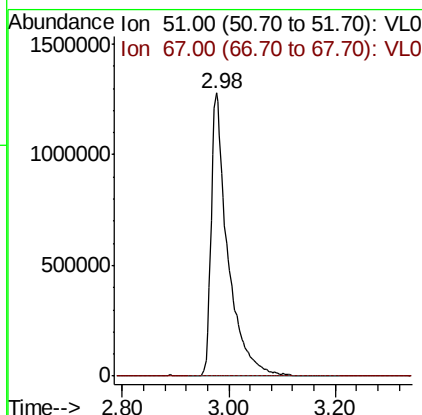
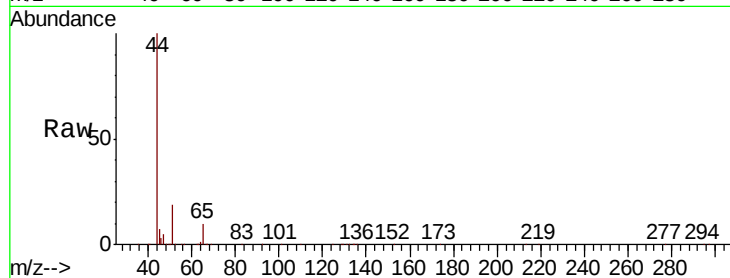
87 34.4 25.9 38.9





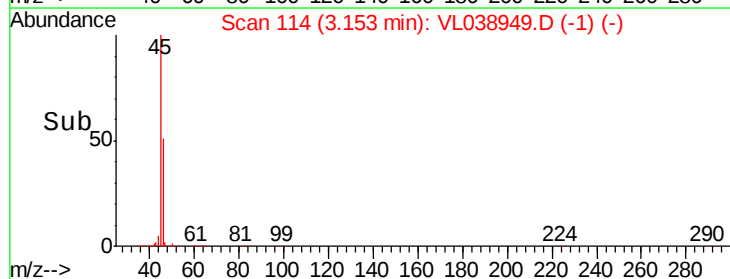
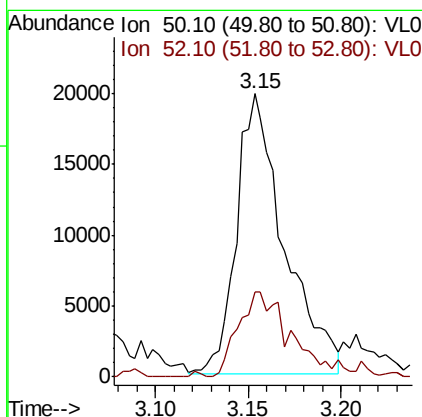
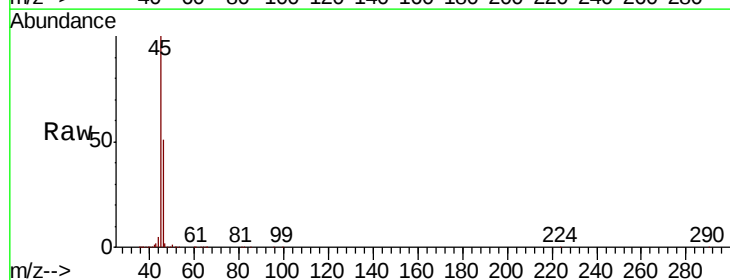
#3
 Chlorodifluoromethane
 Concen: 20.266 ppbv
 RT: 2.98
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 19 Apr 2022 14:33

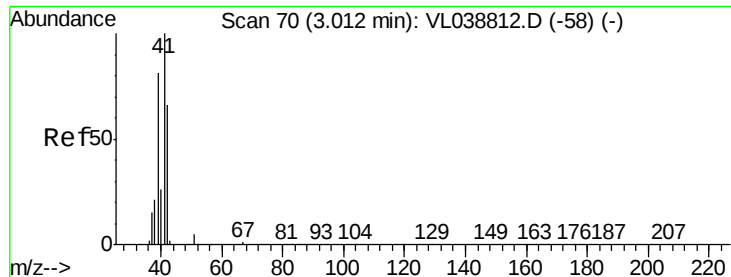
Tot Ion: 51 Resp: 2781024
 Ion Ratio Lower Upper
 51 100
 67 0.3 13.4 20.0#



#4
 Chloromethane
 Concen: 0.496 ppbv
 RT: 3.15 min Scan# 114
 Delta R.T. 0.01 min
 Lab File: VL038949.D
 Acq: 19 Apr 2022 14:33

Tgt Ion: 50 Resp: 35248
 Ion Ratio Lower Upper
 50 100
 52 30.3 24.3 36.5





#9

Propene

Concen: 0.902 ppbv

RT: 3.03 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

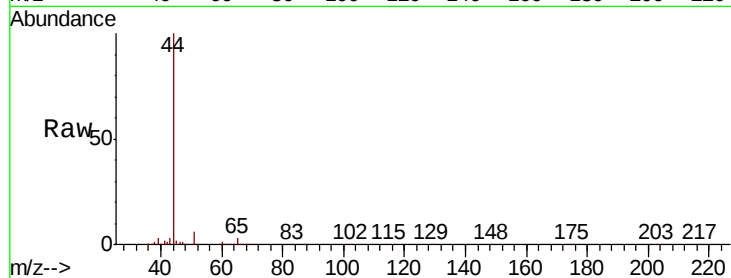
Acq: 19 Apr 2022 14:33

Tot Ion: 41 Resp: 65481

Ion Ratio Lower Upper

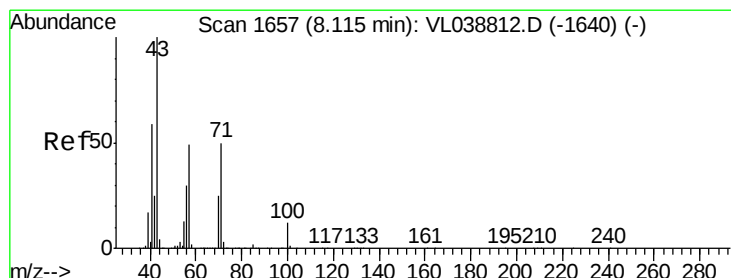
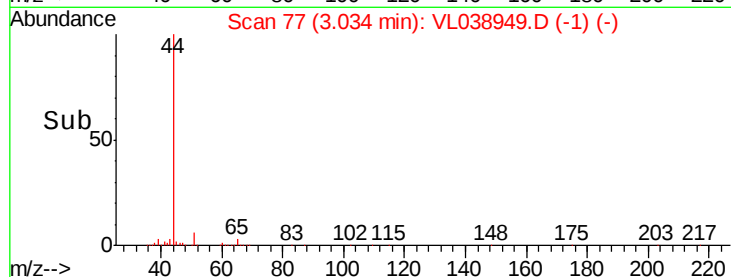
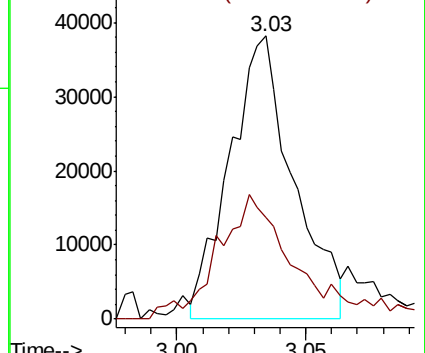
41 100

42 55.6 54.2 81.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.055 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.02 min

Lab File: VL038949.D

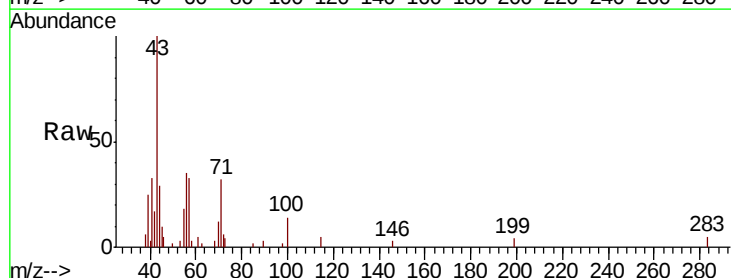
Acq: 19 Apr 2022 14:33

Tgt Ion: 43 Resp: 9993

Ion Ratio Lower Upper

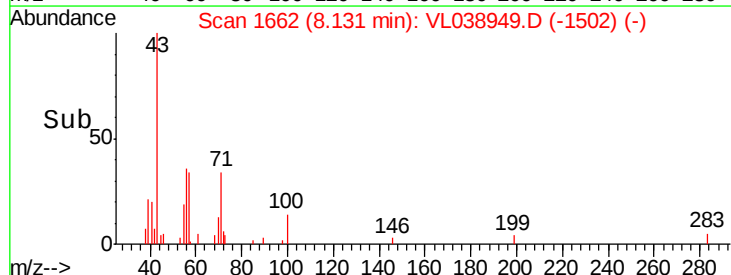
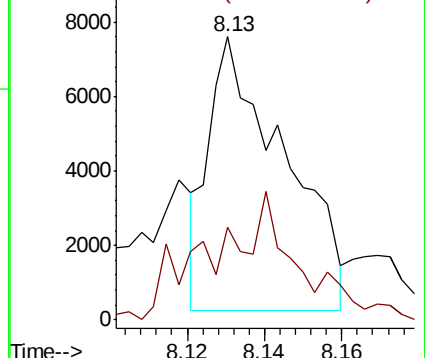
43 100

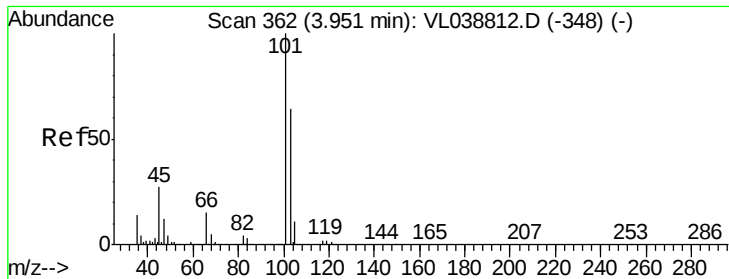
57 55.6 39.3 58.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

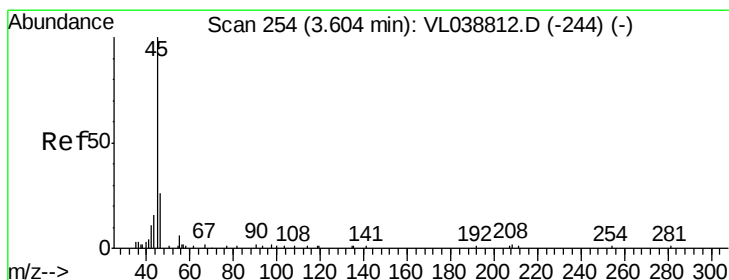
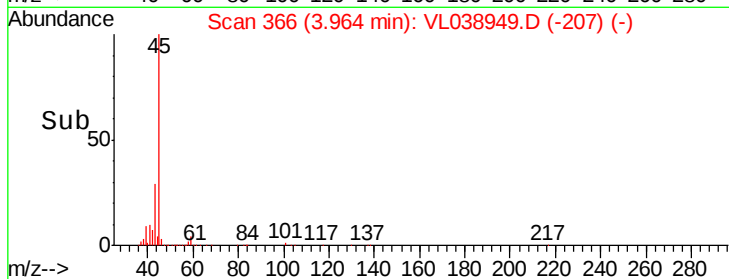
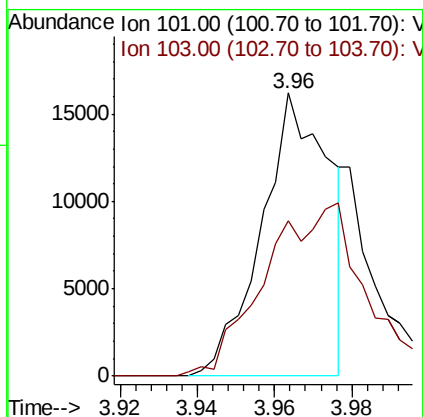
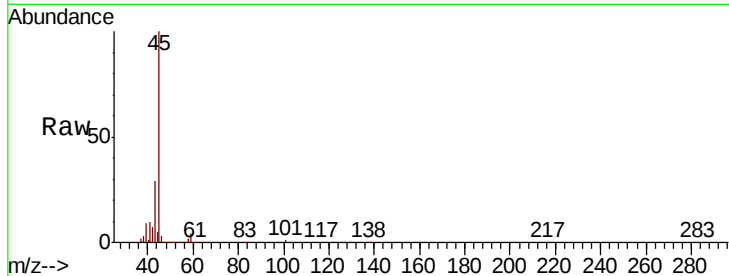
Ion 57.10 (56.80 to 57.80): VL0





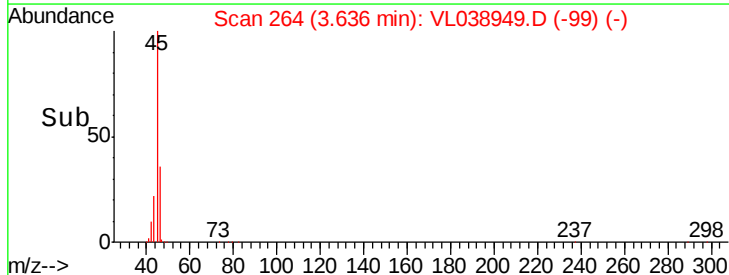
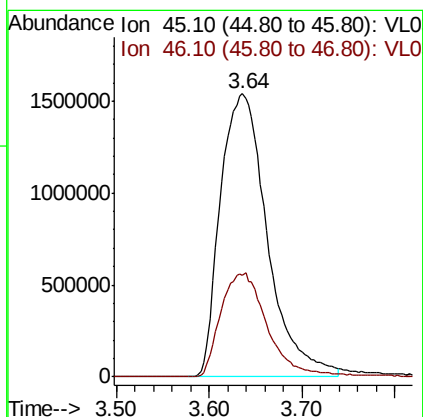
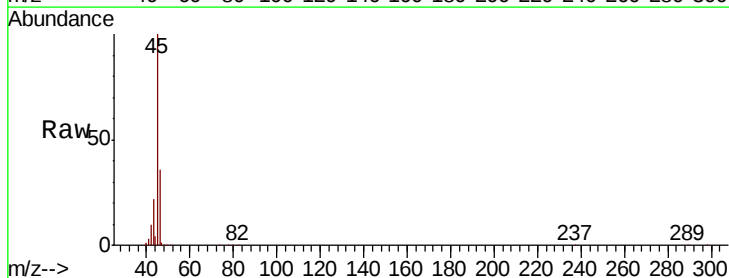
#11
 Trichlorofluoromethane
 Concen: 0.154 ppbv
 RT: 3.96
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 19 Apr 2022 14:33

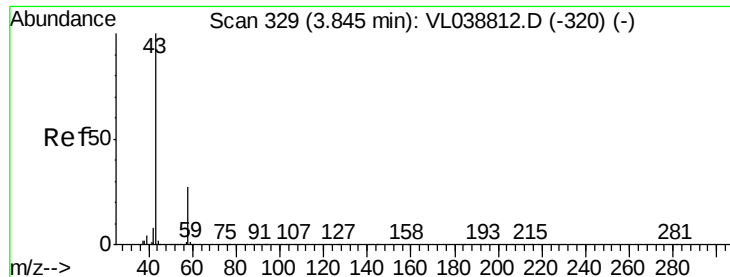
Tot Ion: 101 Resp: 19689
 Ion Ratio Lower Upper
 101 100
 103 53.5 51.4 77.0



#13
 Ethanol
 Concen: 1225.447 ppbv
 RT: 3.64 min Scan# 264
 Delta R.T. 0.03 min
 Lab File: VL038949.D
 Acq: 19 Apr 2022 14:33

Tgt Ion: 45 Resp: 5406888
 Ion Ratio Lower Upper
 45 100
 46 37.2 0.0 0.0#





#15

Acetone

Concen: 125.495 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

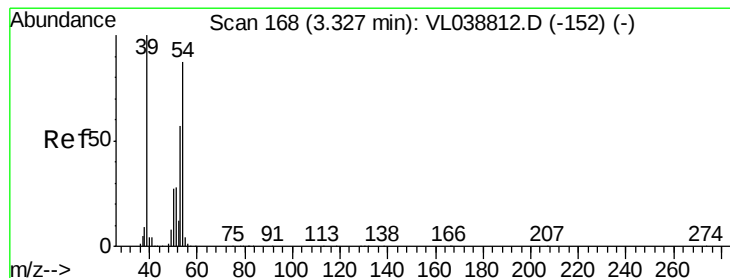
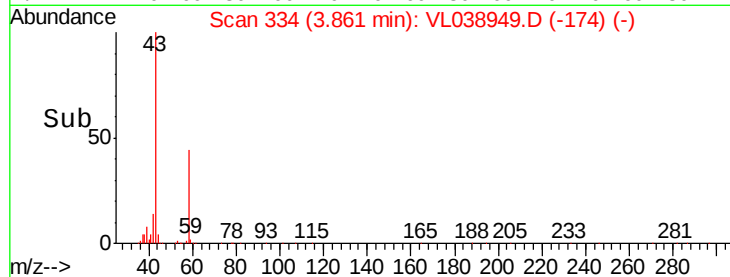
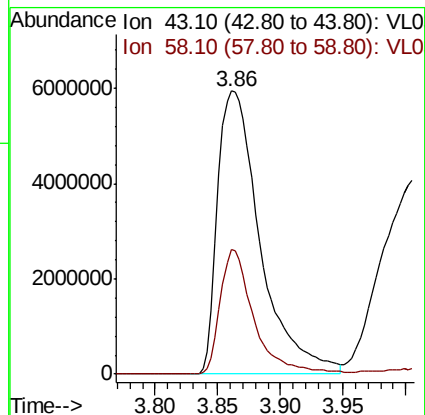
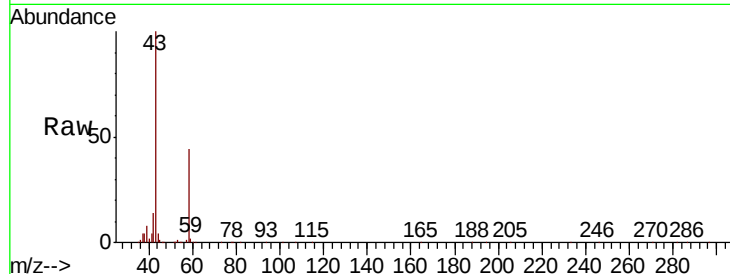
Acq: 19 Apr 2022 14:33

Tot Ion: 43 Resp: 14048561

Ion Ratio Lower Upper

43 100

58 34.9 22.5 33.7#



#16

1,3-Butadiene

Concen: 0.151 ppbv

RT: 3.36 min Scan# 179

Delta R.T. 0.04 min

Lab File: VL038949.D

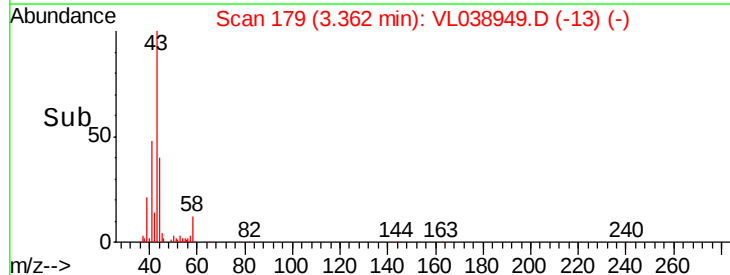
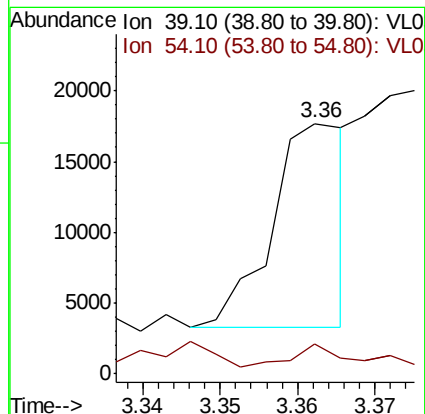
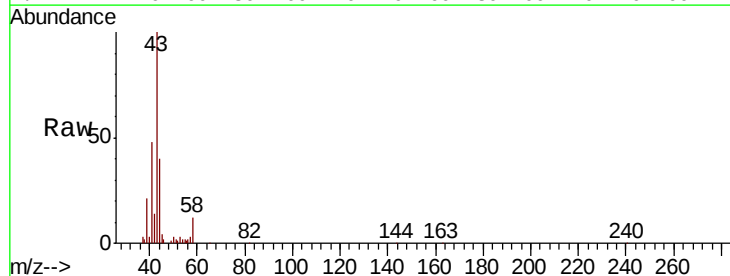
Acq: 19 Apr 2022 14:33

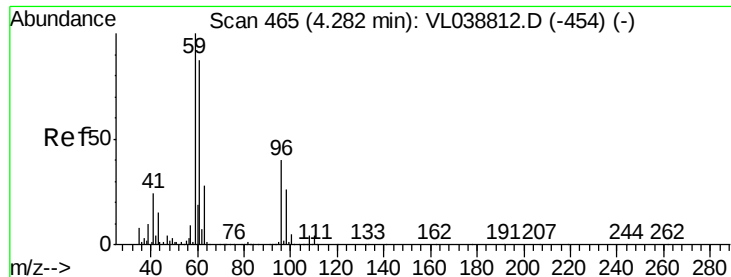
Tgt Ion: 39 Resp: 9637

Ion Ratio Lower Upper

39 100

54 46.2 64.8 97.2#





#17

tert-Butyl alcohol

Concen: 28.714 ppbv

RT: 4.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

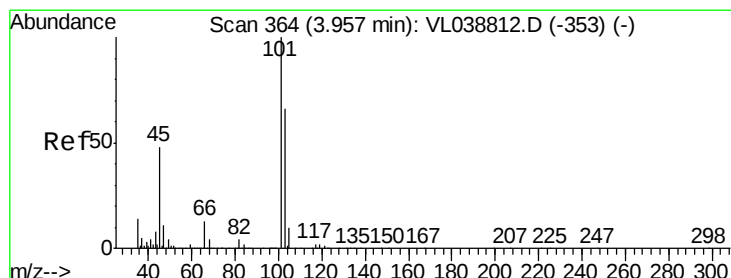
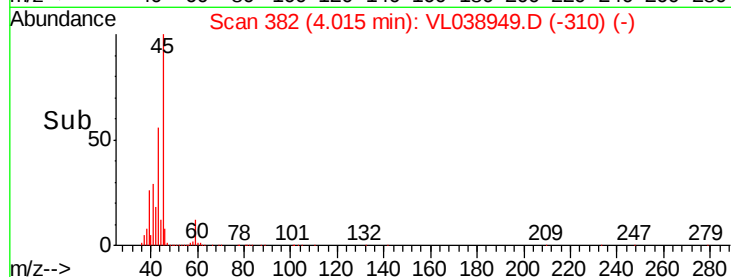
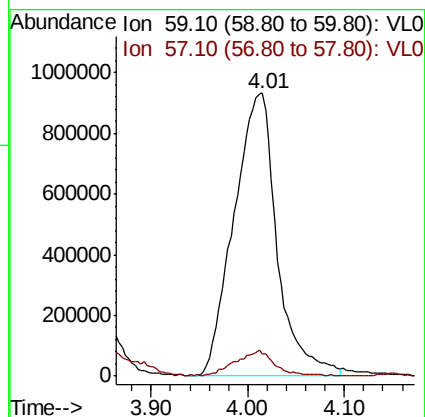
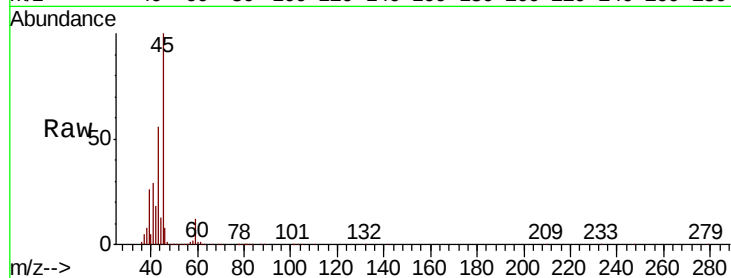
Acq: 19 Apr 2022 14:33

Tot Ion: 59 Resp: 2882490

Ion Ratio Lower Upper

59 100

57 8.5 8.5 12.7



#19

Isopropyl Alcohol

Concen: 649.246 ppbv

RT: 4.01 min Scan# 381

Delta R.T. 0.05 min

Lab File: VL038949.D

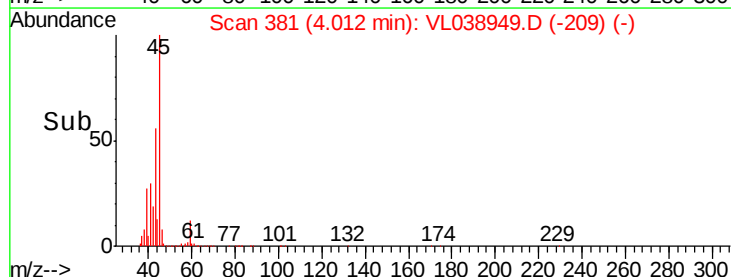
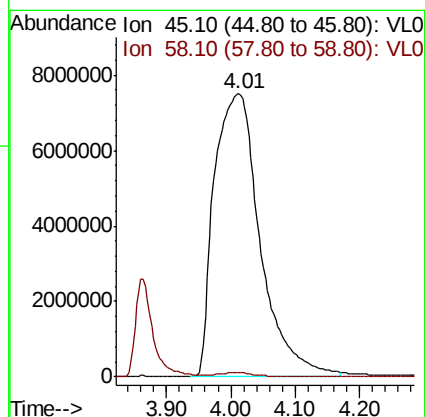
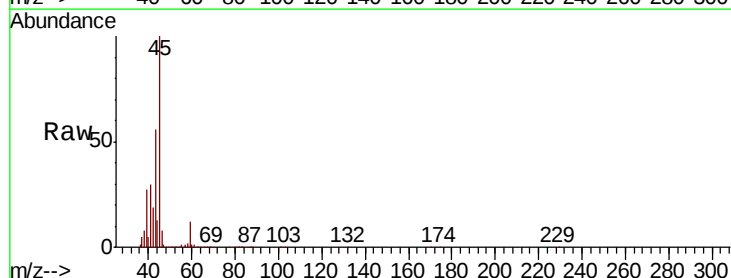
Acq: 19 Apr 2022 14:33

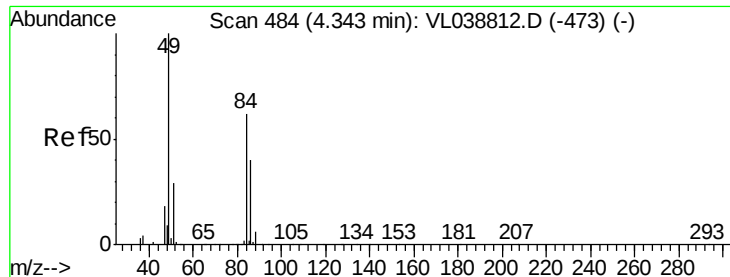
Tgt Ion: 45 Resp: 37146689

Ion Ratio Lower Upper

45 100

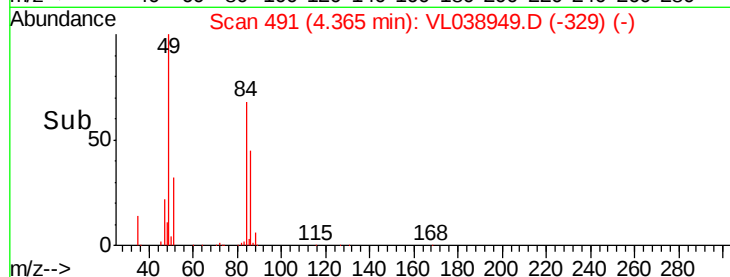
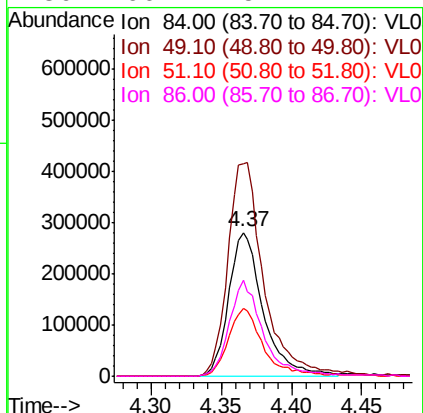
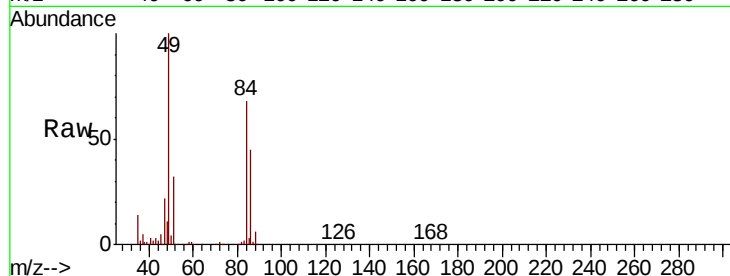
58 1.5 0.0 0.0#





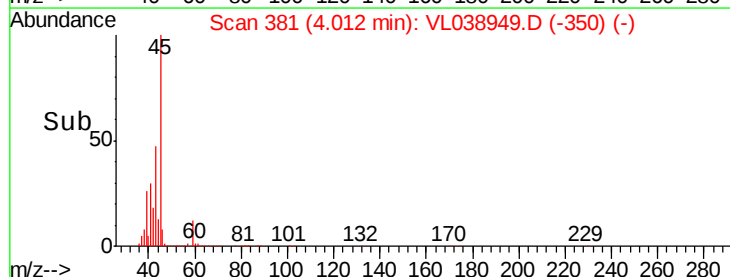
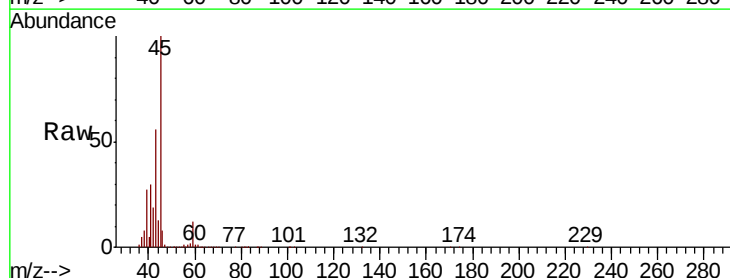
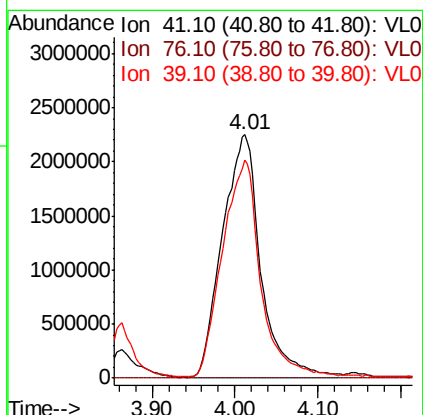
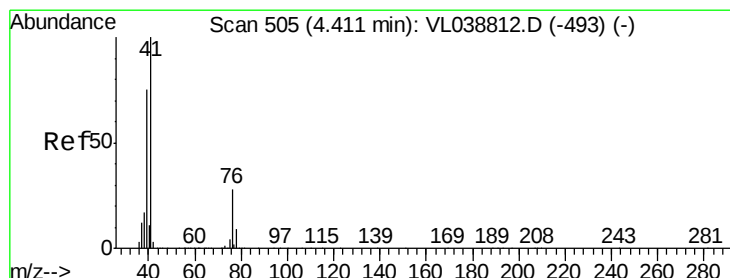
#20
Methylene Chloride
Concen: 11.832 ppbv
RT: 4.37
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 19 Apr 2022 14:33

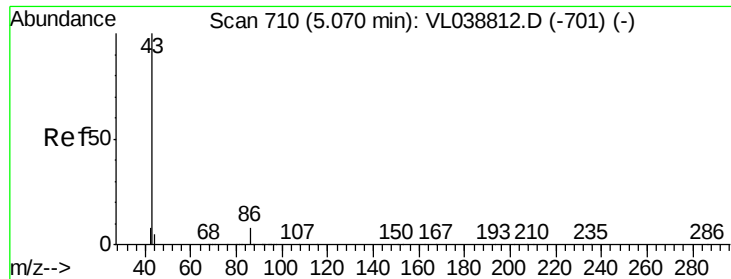
Tot Ion:	84	Resp:	480381
Ion	Ratio	Lower	Upper
84	100		
49	147.7	129.4	194.0
51	47.6	37.4	56.2
86	66.4	51.4	77.2



#21
Allyl Chloride
Concen: 86.211 ppbv
RT: 4.01 min Scan# 381
Delta R.T. -0.40 min
Lab File: VL038949.D
Acq: 19 Apr 2022 14:33

Tgt Ion:	41	Resp:	7226023
Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.7	35.5#
39	88.9	62.0	93.0





#23

Vinyl Acetate

Concen: 0.471 ppbv

RT: 5.08 Instrument:

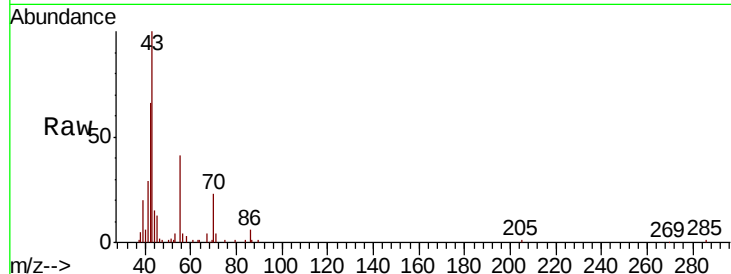
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 19 Apr 2022 14:33

Tot Ion: 43 Resp: 51366

Ion	Ratio	Lower	Upper
43	100		
86	6.8	5.8	8.6
42	64.2	7.8	11.6#
44	2.9	3.6	5.4#



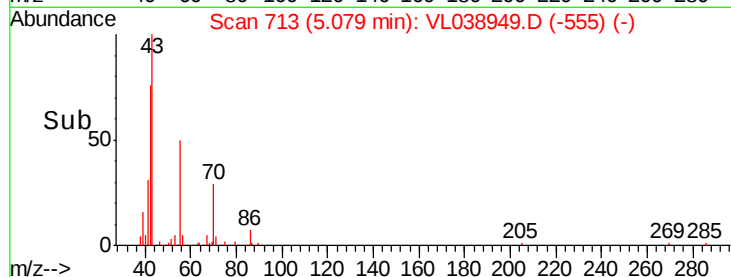
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

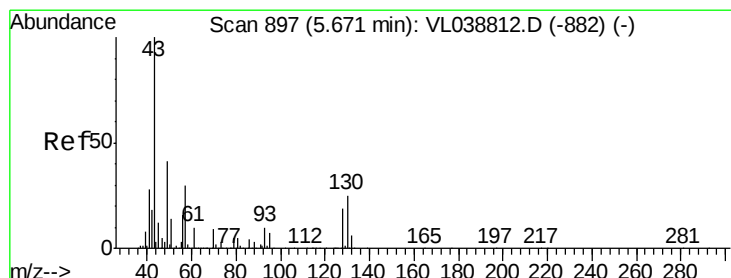
Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0

Time-->



Time-->



#25

Ethyl Acetate

Concen: 3.209 ppbv

RT: 5.68 min Scan# 901

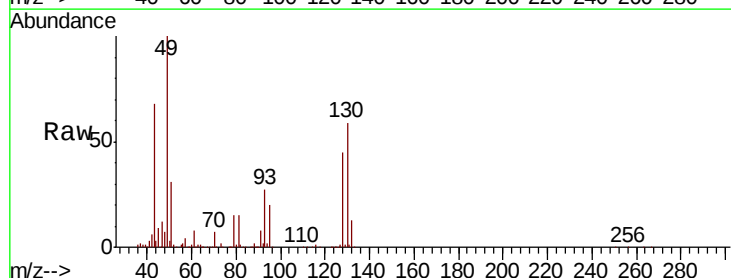
Delta R.T. 0.01 min

Lab File: VL038949.D

Acq: 19 Apr 2022 14:33

Tgt Ion: 43 Resp: 911366

Ion	Ratio	Lower	Upper
43	100		
45	11.8	8.4	12.6
61	10.9	7.9	11.9
70	8.5	5.6	8.4#



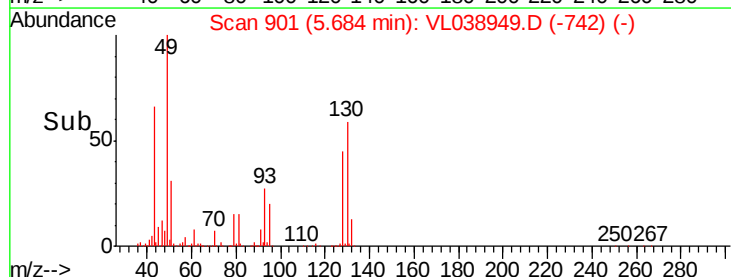
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

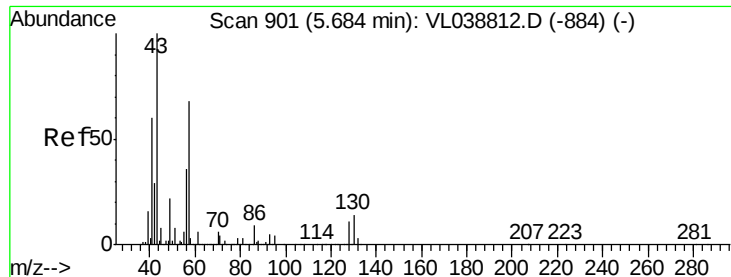
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

Time-->

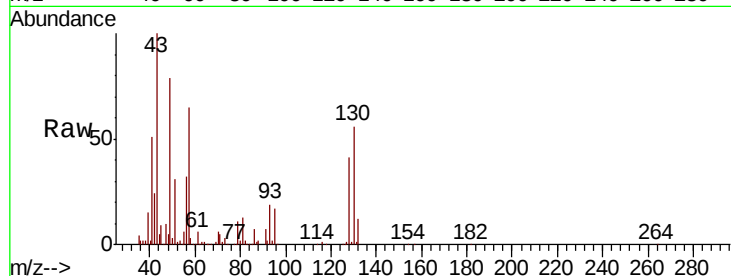


Time-->

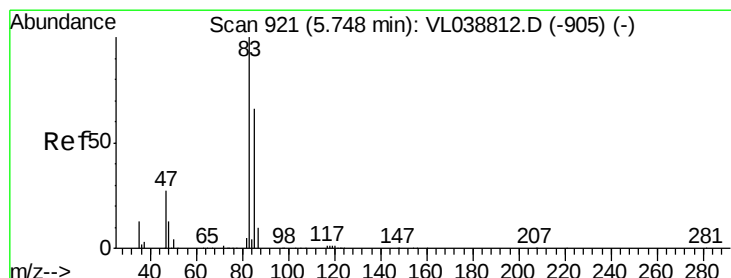
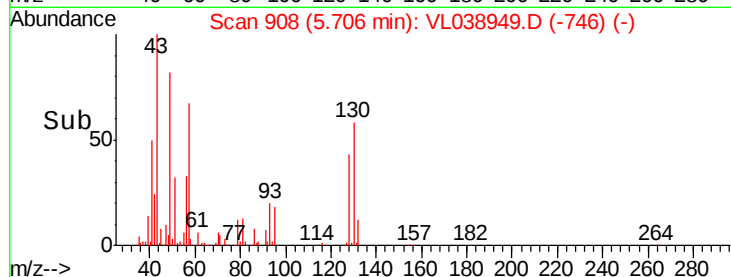
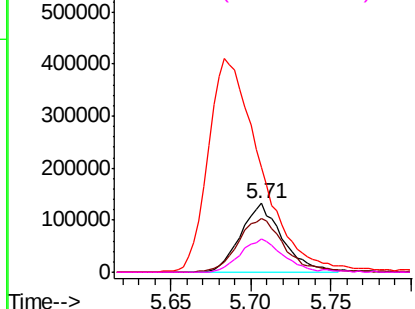


#26
Hexane
Concen: 1.825 ppbv
RT: 5.71
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 19 Apr 2022 14:33

Tot Ion:	57	Resp:	235994
Ion	Ratio	Lower	Upper
57	100		
41	88.3	72.0	108.0
43	394.2	186.6	280.0#
56	51.3	42.8	64.2

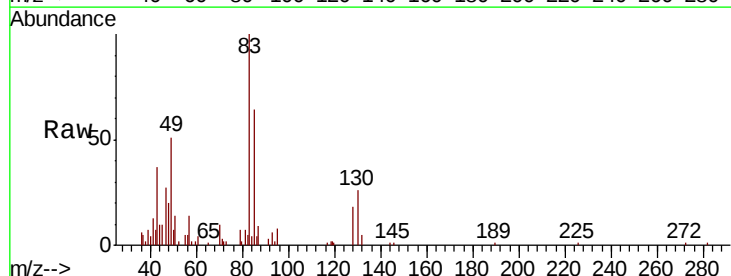


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

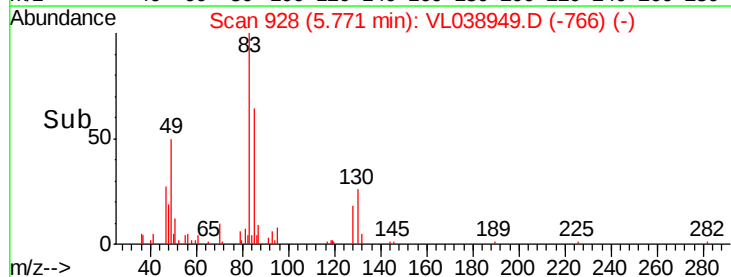
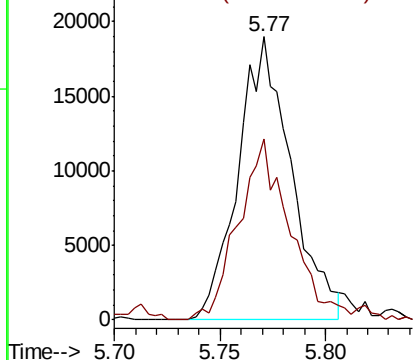


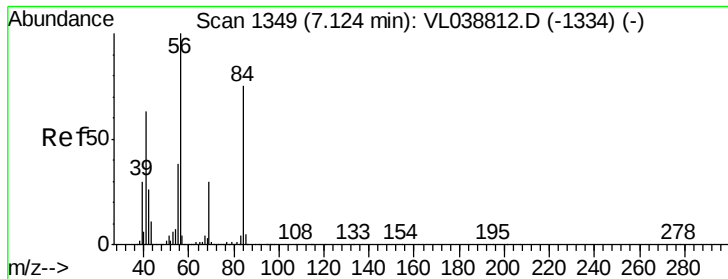
#29
Chloroform
Concen: 0.184 ppbv
RT: 5.77 min Scan# 928
Delta R.T. 0.02 min
Lab File: VL038949.D
Acq: 19 Apr 2022 14:33

Tgt Ion:	83	Resp:	33196
Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.5	78.7



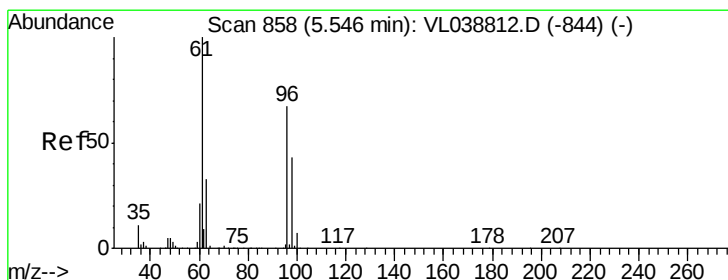
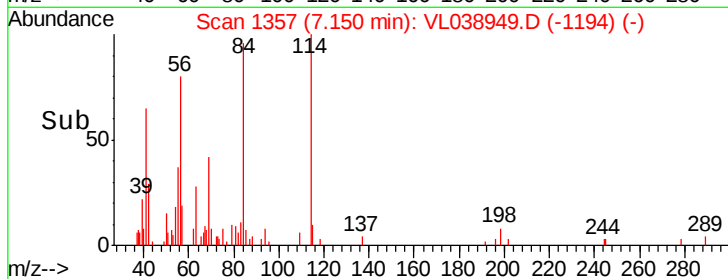
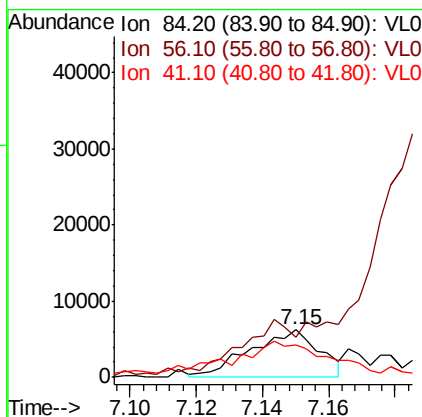
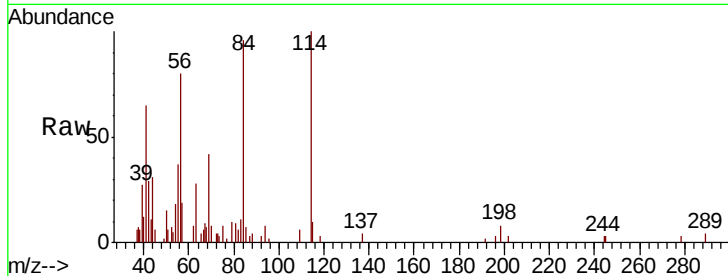
Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





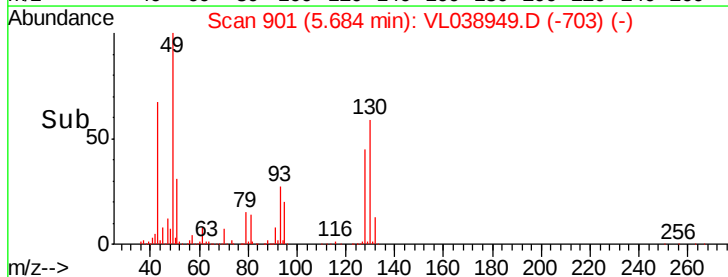
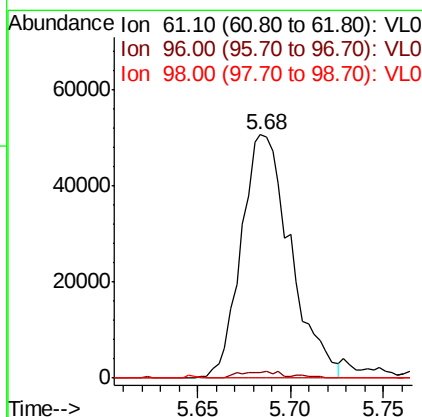
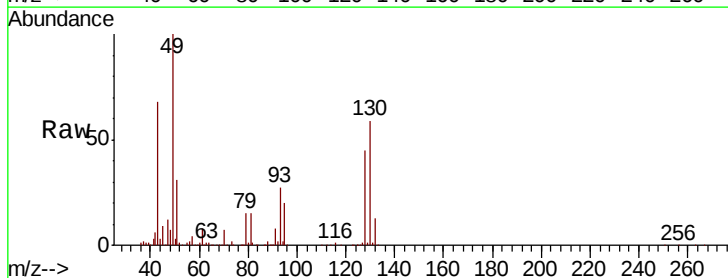
#30
Cvclohexane
Concen: 0.079 ppbv
RT: 7.15
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 19 Apr 2022 14:33

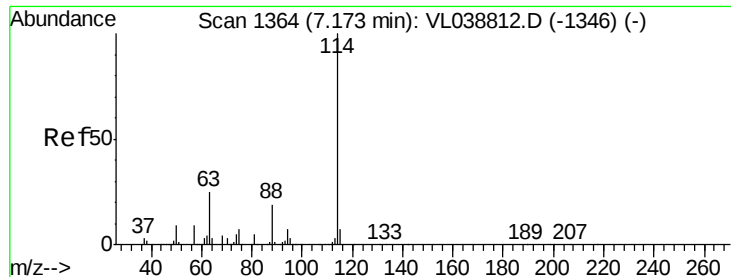
Tot Ion: 84 Resp: 9031
Ion Ratio Lower Upper
84 100
56 0.0 114.4 171.6#
41 99.0 69.0 103.4



#31
cis-1,2-Dichloroethene
Concen: 0.789 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.14 min
Lab File: VL038949.D
Acq: 19 Apr 2022 14:33

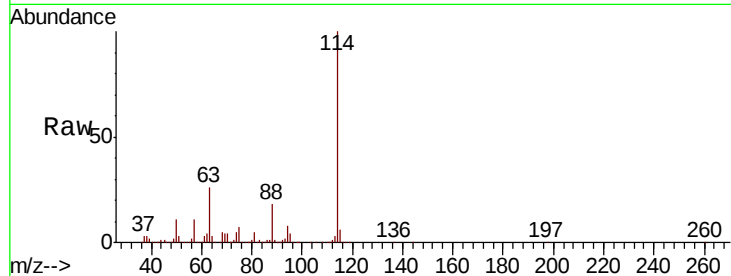
Tgt Ion: 61 Resp: 93752
Ion Ratio Lower Upper
61 100
96 2.1 53.4 80.0#
98 0.0 34.2 51.4#



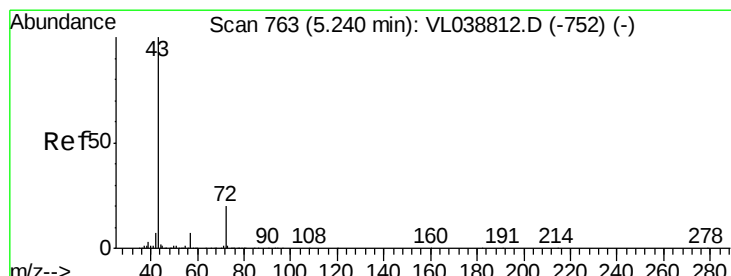
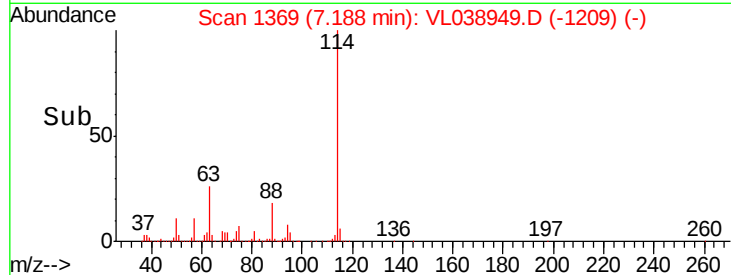
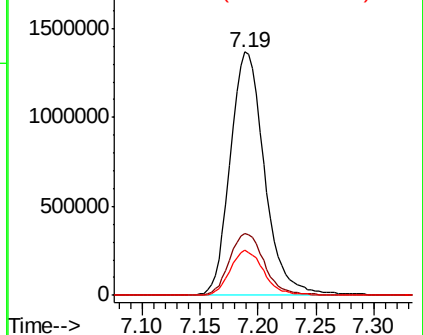


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 19 Apr 2022 14:33

Tot Ion:114 Resp: 2796737
 Ion Ratio Lower Upper
 114 100
 63 26.2 19.8 29.8
 88 18.4 14.2 21.4

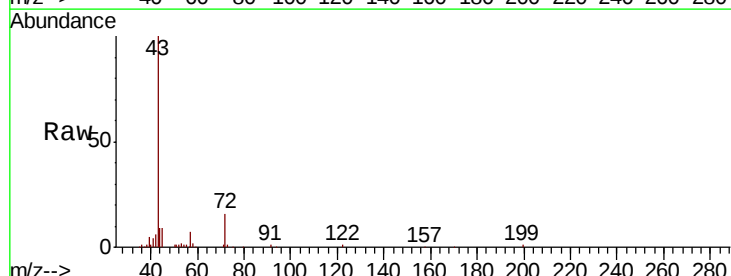


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

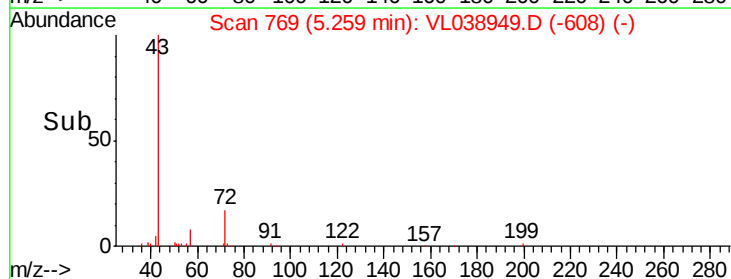
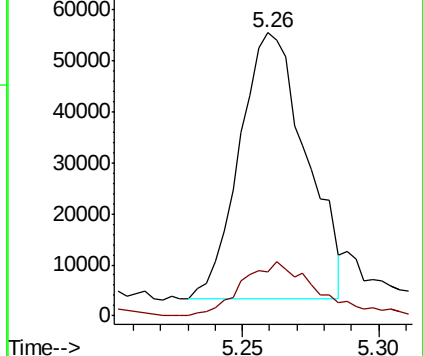


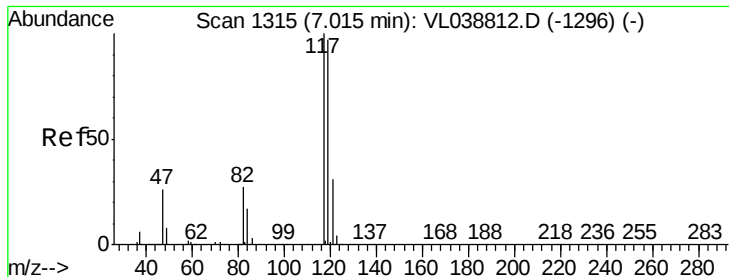
#34
 2-Butanone
 Concen: 0.797 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.02 min
 Lab File: VL038949.D
 Acq: 19 Apr 2022 14:33

Tgt Ion: 43 Resp: 88038
 Ion Ratio Lower Upper
 43 100
 72 23.2 16.9 25.3



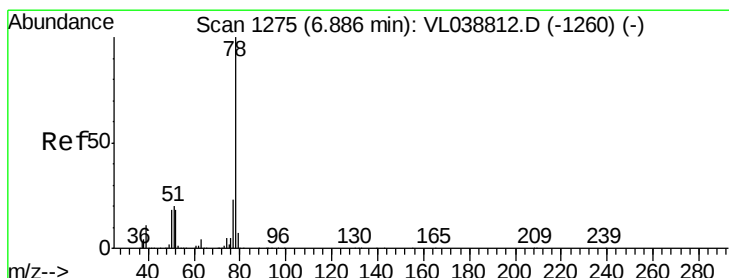
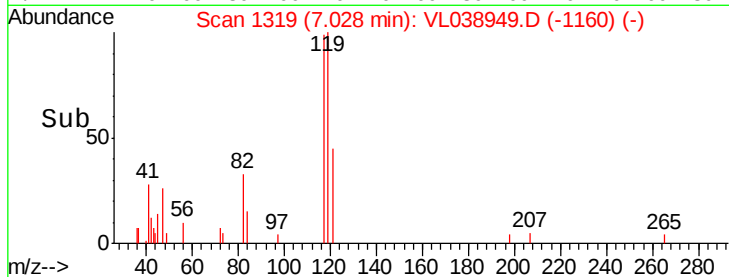
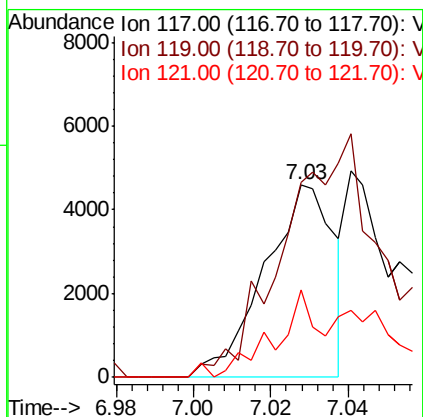
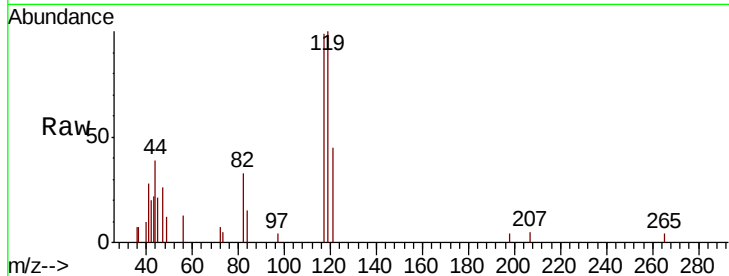
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





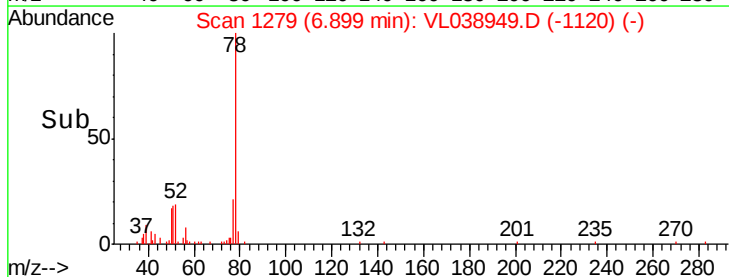
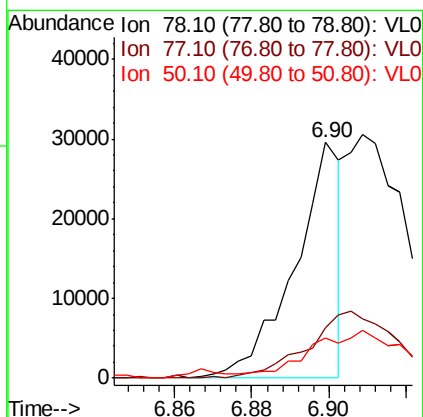
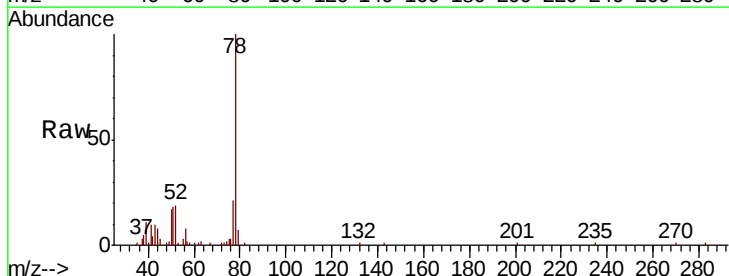
#35
Carbon Tetrachloride
Concen: 0.034 ppbv
RT: 7.03
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 19 Apr 2022 14:33

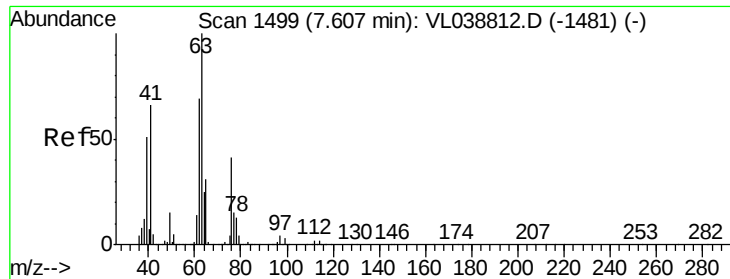
Tot Ion: 117 Resp: 5690
Ion Ratio Lower Upper
117 100
119 101.2 77.7 116.5
121 45.7 24.5 36.7#



#36
Benzene
Concen: 0.097 ppbv
RT: 6.90 min Scan# 1279
Delta R.T.: 0.01 min
Lab File: VL038949.D
Acq: 19 Apr 2022 14:33

Tgt Ion: 78 Resp: 24566
Ion Ratio Lower Upper
78 100
77 21.4 18.2 27.2
50 15.6 14.0 21.0





#39

1,2-Dichloropropane

Concen: 7.371 ppbv

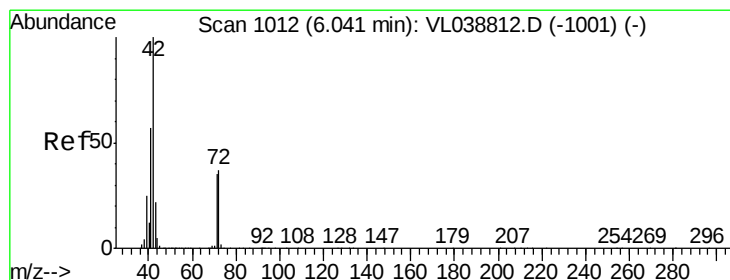
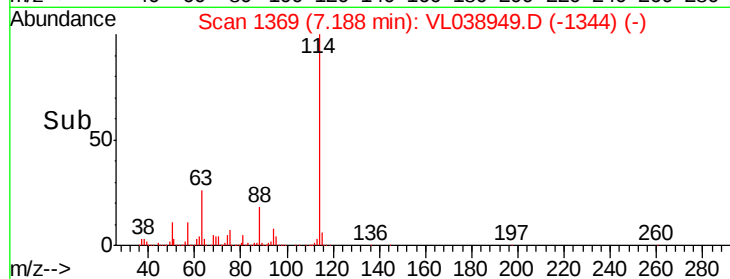
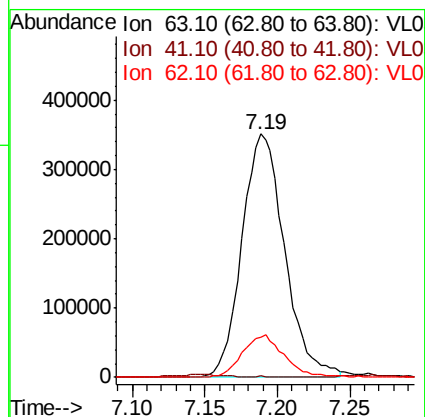
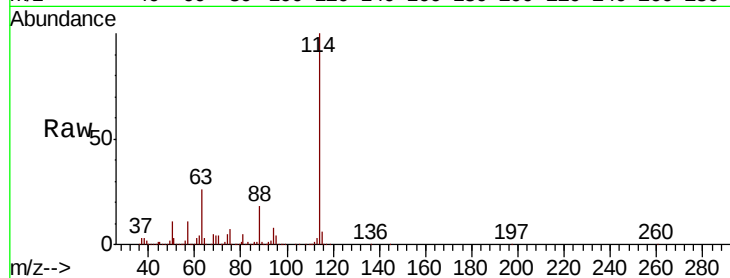
RT: 7.19 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 19 Apr 2022 14:33

Tot Ion:	63	Resp:	717289
Ion	Ratio	Lower	Upper
63	100		
41	0.0	53.0	79.6#
62	16.7	55.0	82.4#



#41

Tetrahydrofuran

Concen: 0.843 ppbv

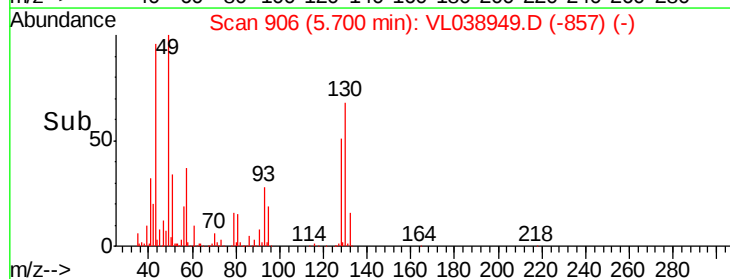
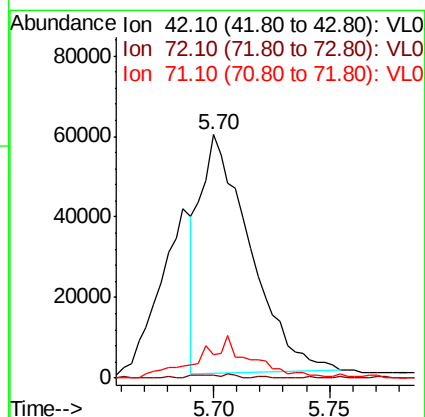
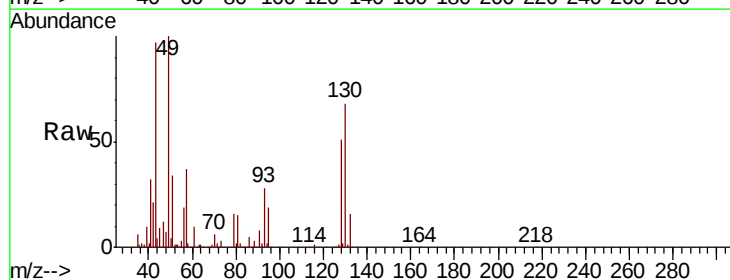
RT: 5.70 min Scan# 906

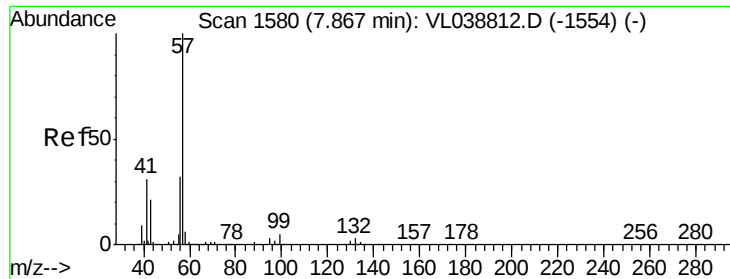
Delta R.T. -0.34 min

Lab File: VL038949.D

Acq: 19 Apr 2022 14:33

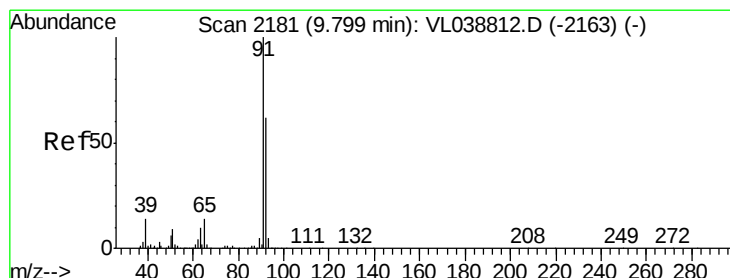
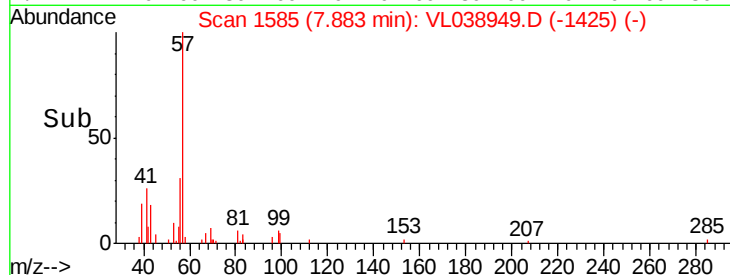
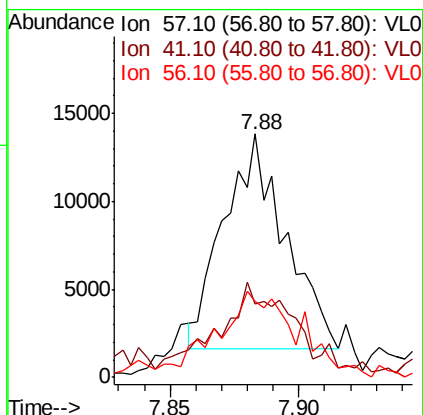
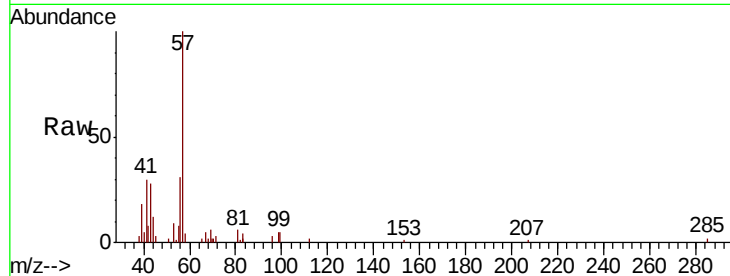
Tgt Ion:	42	Resp:	88521
Ion	Ratio	Lower	Upper
42	100		
72	1.8	31.4	47.0#
71	19.4	30.2	45.4#





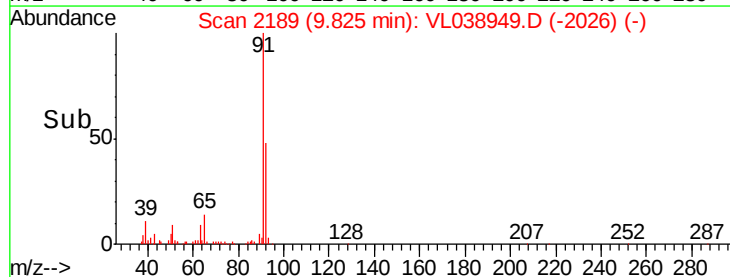
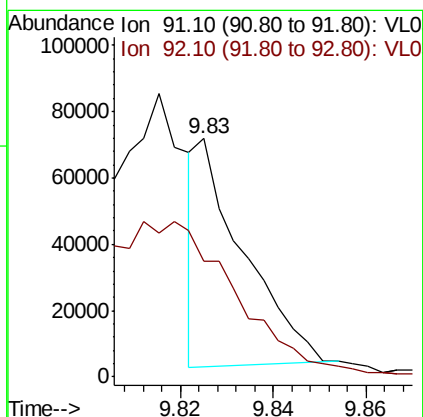
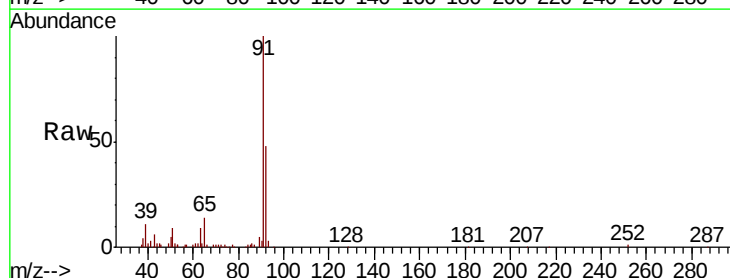
#44
 2,2,4-Trimethylpentane
 Concen: 0.046 ppbv
 RT: 7.88
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 19 Apr 2022 14:33

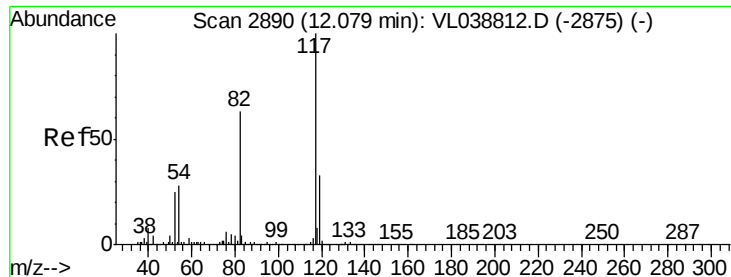
Tot Ion	57	Resp	19949
Ion Ratio	Lower	Upper	
57	100		
41	49.0	25.0	37.4#
56	59.0	25.3	37.9#



#53
 Toluene
 Concen: 0.161 ppbv
 RT: 9.83 min Scan# 2189
 Delta R.T. 0.03 min
 Lab File: VL038949.D
 Acq: 19 Apr 2022 14:33

Tgt Ion	91	Resp	47143
Ion Ratio	Lower	Upper	
91	100		
92	0.0	49.2	73.8#

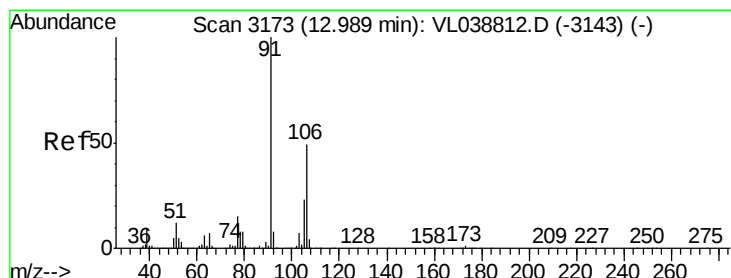
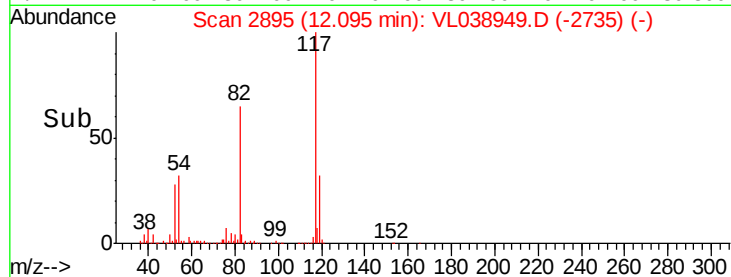
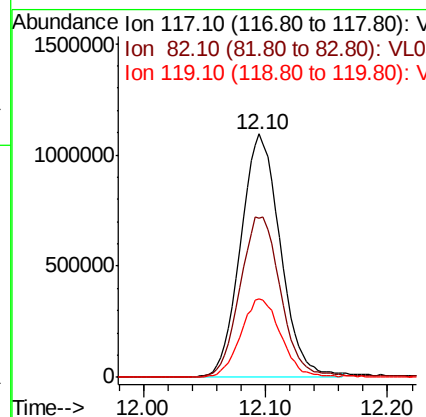
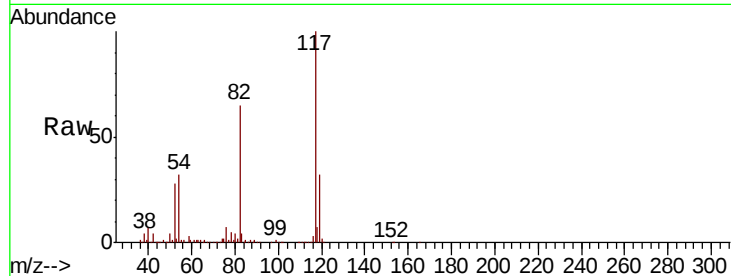




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 19 Apr 2022 14:33

Tot Ion: 117 Resp: 2463293

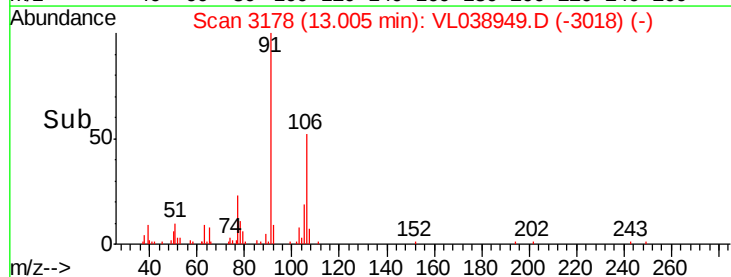
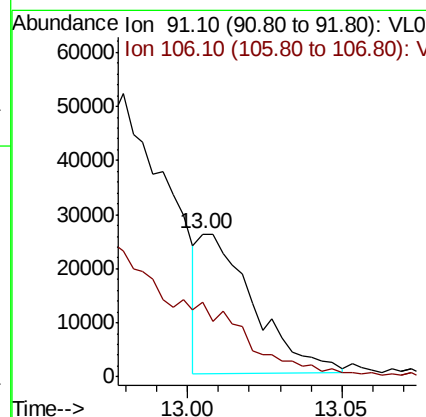
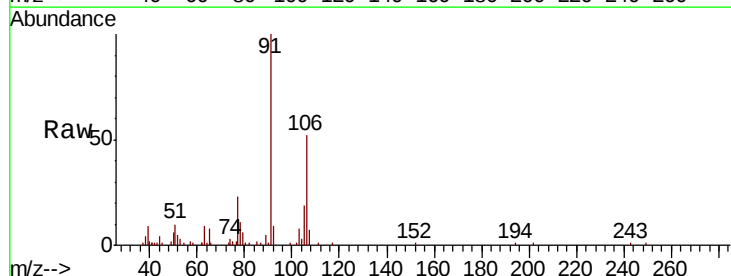
Ion	Ratio	Lower	Upper
117	100		
82	69.3	53.0	79.6
119	32.9	24.9	37.3

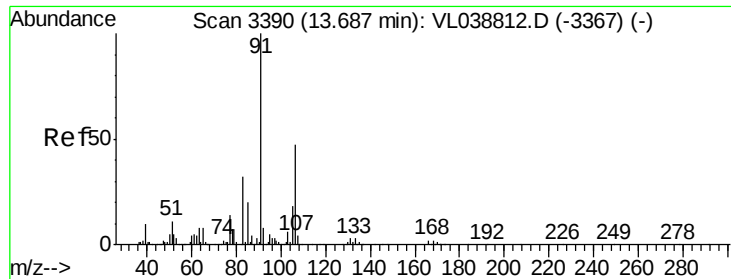


#59
m/p-Xylene
Concen: 0.103 ppbv
RT: 13.00 min Scan# 3178
Delta R.T.: 0.02 min
Lab File: VL038949.D
Acq: 19 Apr 2022 14:33

Tgt Ion: 91 Resp: 31782

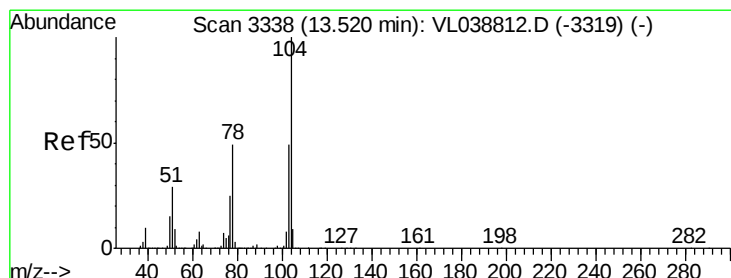
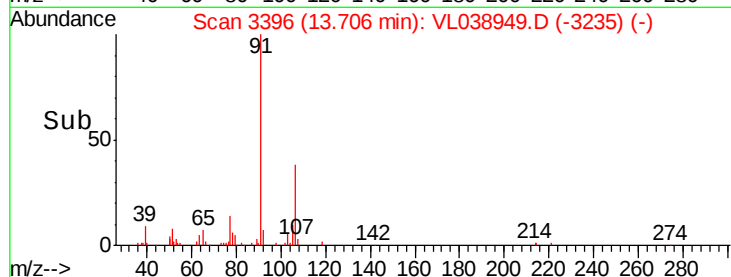
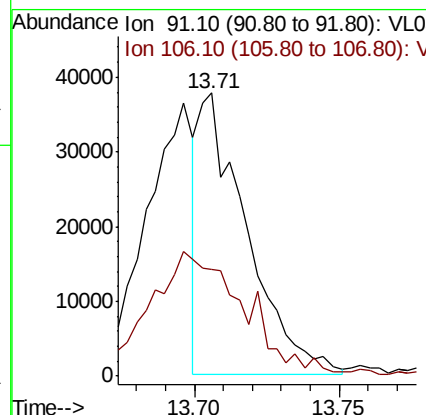
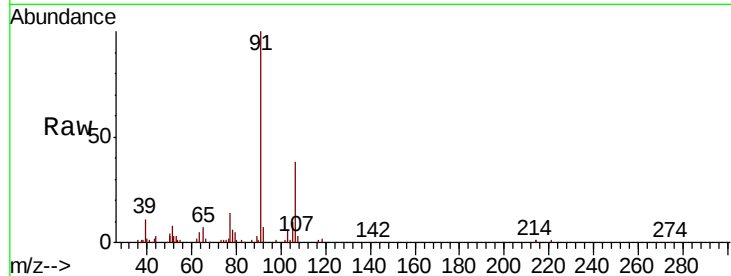
Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.1	55.7#





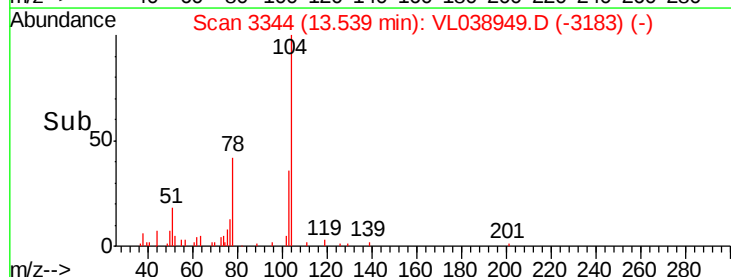
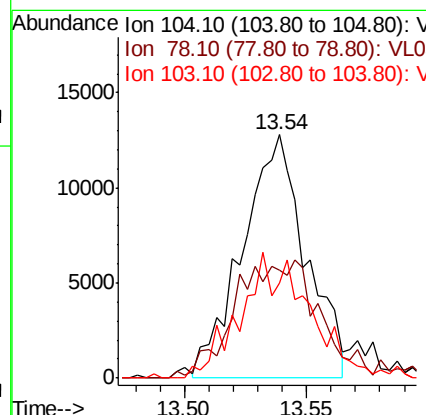
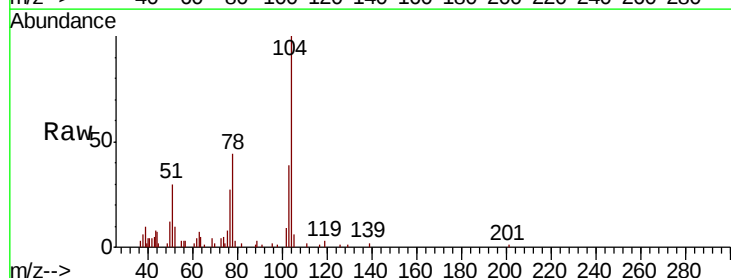
#60
o-Xylene
Concen: 0.148 ppbv
RT: 13.71
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 19 Apr 2022 14:33

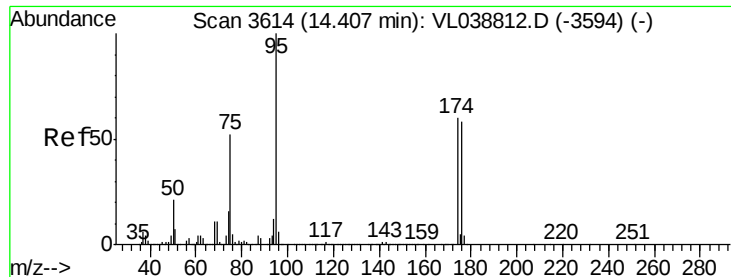
Tot Ion: 91 Resp: 42742
Ion Ratio Lower Upper
91 100
106 0.0 23.8 71.4#



#61
Styrene
Concen: 0.131 ppbv
RT: 13.54 min Scan# 3344
Delta R.T. 0.02 min
Lab File: VL038949.D
Acq: 19 Apr 2022 14:33

Tgt Ion:104 Resp: 23153
Ion Ratio Lower Upper
104 100
78 66.9 40.5 60.7#
103 56.2 39.0 58.4





#68

1-Bromo-4-Fluorobenzene

Concen: 10.425 ppbv

RT: 14.43 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

IA-1DUP

Acq: 19 Apr 2022 14.33

Tot Ion: 95 Resp: 1947812

Ion Ratio Lower Upper

95 100

174 62.0 52.0 78.0

175 4.5 4.0 6.0

