

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110921\
 Data File : VL037984.D
 Acq On : 9 Nov 2021 18:08
 Operator : SY/AP
 Sample : M4555-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 10 04:48:26 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 02 05:54:07 2021
 QLast Update : Tue Nov 02 05:54:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1295255	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3700376	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3088826	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2130332	9.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.90%

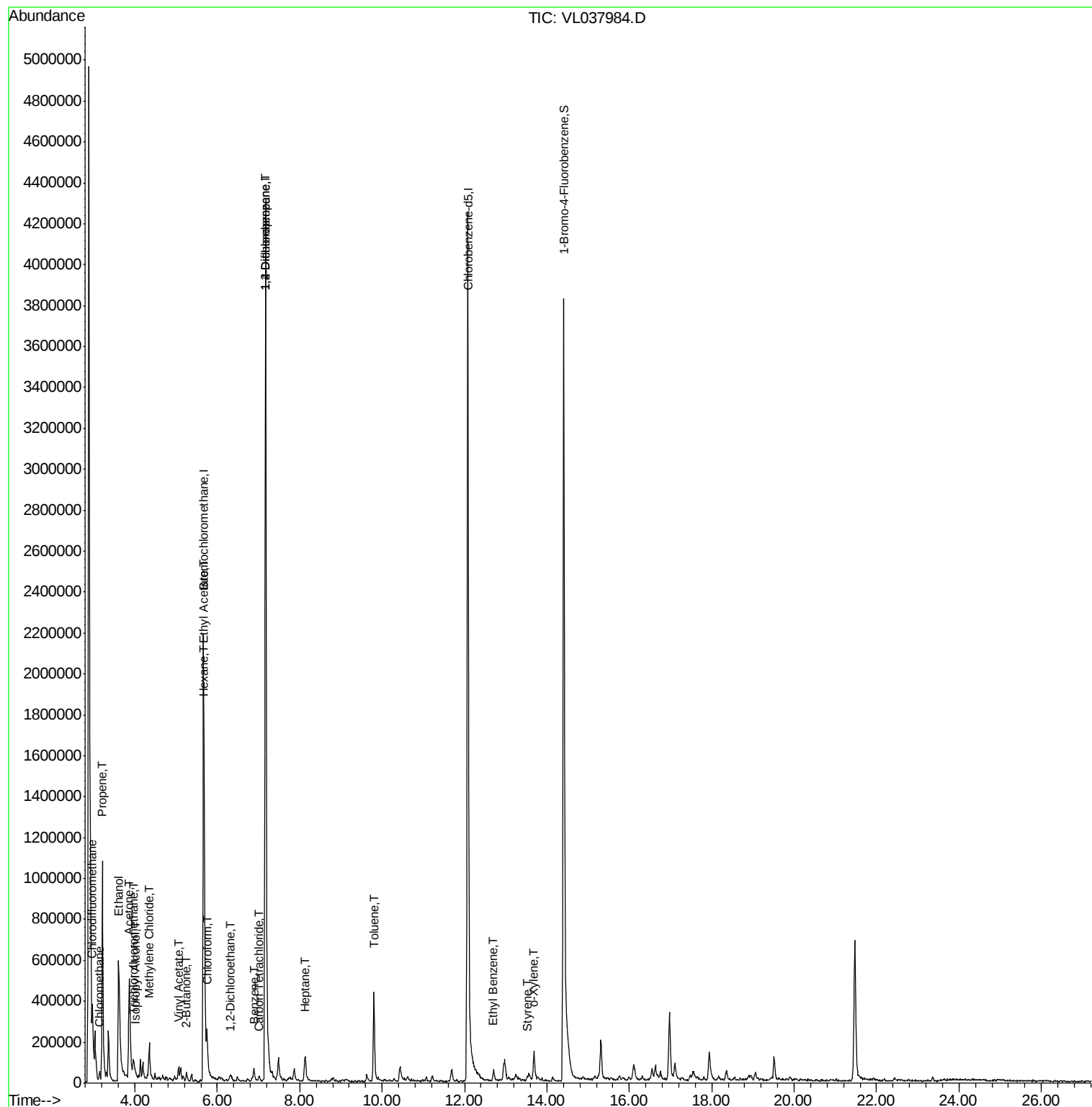
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.97	51	291223	1.208 ppbv #	62
4) Chloromethane	3.14	50	29692	0.324 ppbv #	88
9) Propene	3.20	41	372925	4.314 ppbv	99
10) Heptane	8.12	43	13647	0.068 ppbv #	1
11) Trichlorofluoromethane	3.97	101	7546	0.042 ppbv	85
13) Ethanol	3.61	45	591745	67.848 ppbv	67
15) Acetone	3.85	43	672694	6.285 ppbv	99
19) Isopropyl Alcohol	4.00	45	9988	0.146 ppbv #	85
20) Methylene Chloride	4.35	84	68012	1.157 ppbv	86
23) Vinyl Acetate	5.07	43	6263	0.039 ppbv #	35
25) Ethyl Acetate	5.68	43	81182	0.255 ppbv #	91
26) Hexane	5.69	57	72267	0.480 ppbv #	55
29) Chloroform	5.75	83	120665	0.537 ppbv	98
34) 2-Butanone	5.25	43	41836	0.305 ppbv #	81
35) Carbon Tetrachloride	7.01	117	8589	0.038 ppbv	86
36) Benzene	6.89	78	45315	0.150 ppbv #	84
37) 1,2-Dichloroethane	6.30	62	4342	0.030 ppbv #	95
39) 1,2-Dichloropropane	7.17	63	867053	7.647 ppbv #	27
53) Toluene	9.80	91	314505	0.974 ppbv	99
58) Ethyl Benzene	12.69	91	13520	0.036 ppbv	100
60) o-Xylene	13.69	91	50766	0.160 ppbv	86
61) Styrene	13.52	104	5924	0.041 ppbv #	70

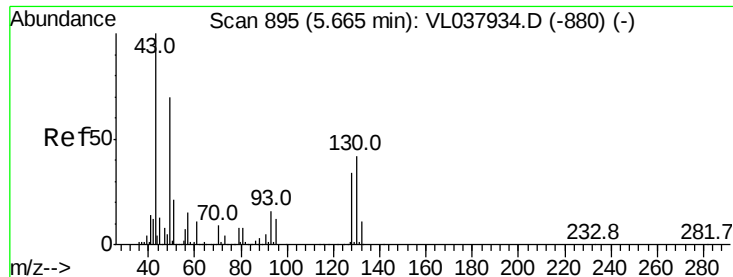
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 9 Nov 2021 18:08

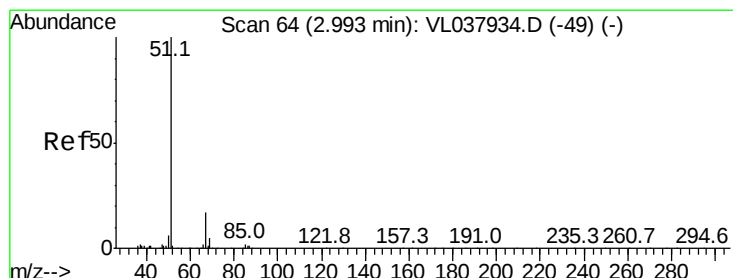
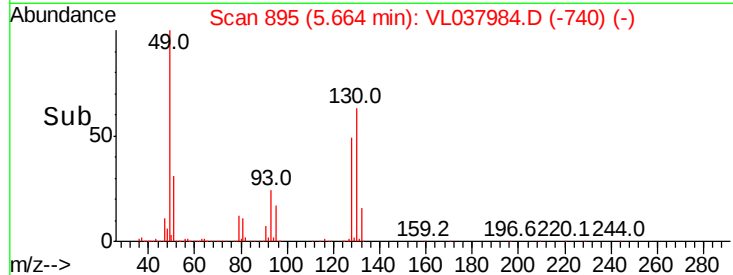
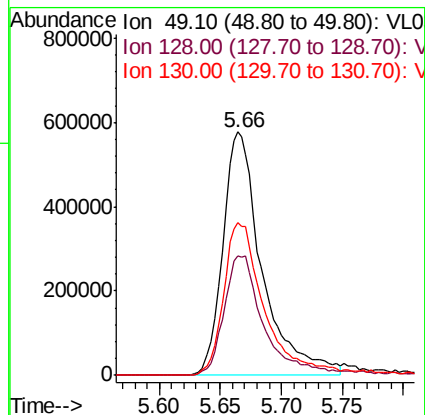
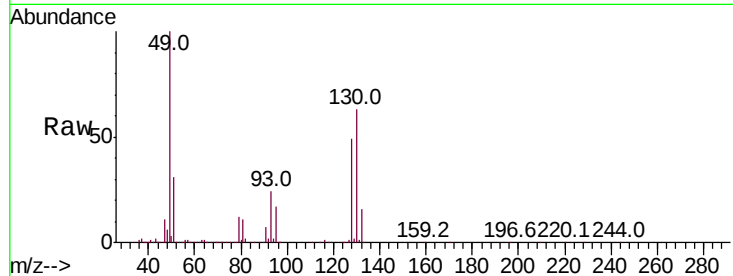
Tot Ion: 49 Resp: 1295255

Ion Ratio Lower Upper

49 100

128 52.1 27.0 81.0

130 67.3 33.4 100.2



#3

Chlorodifluoromethane

Concen: 1.208 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.03 min

Lab File: VL037984.D

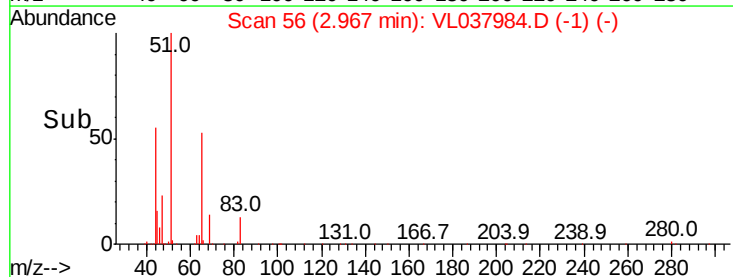
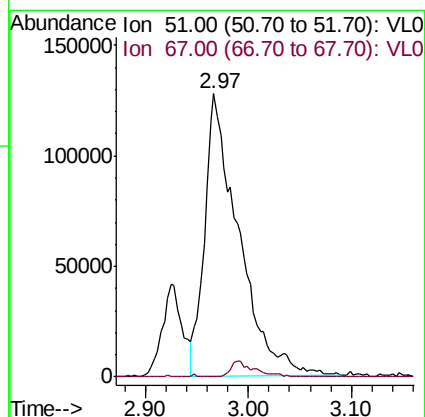
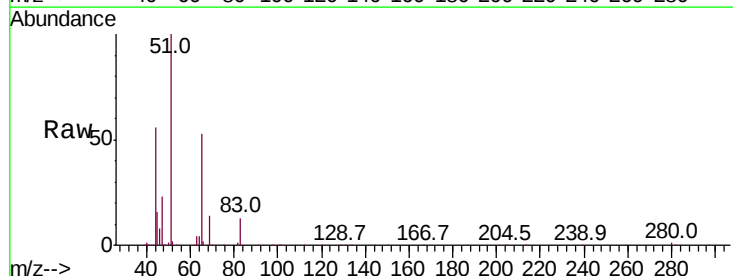
Acq: 9 Nov 2021 18:08

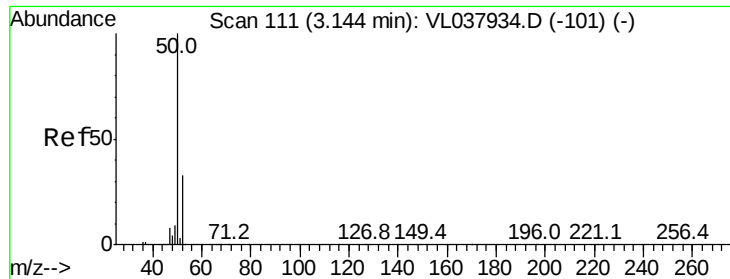
Tgt Ion: 51 Resp: 291223

Ion Ratio Lower Upper

51 100

67 0.2 13.4 20.0#





#4

Chloromethane

Concen: 0.324 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

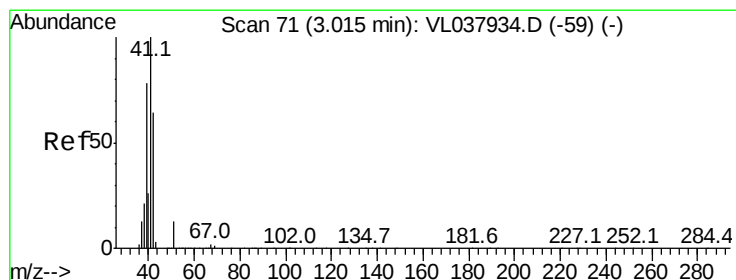
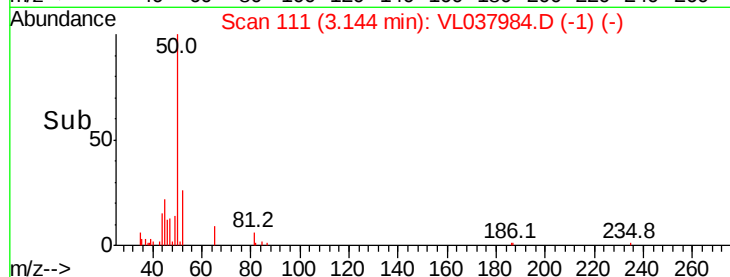
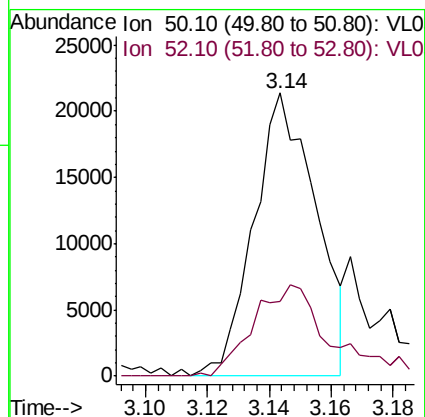
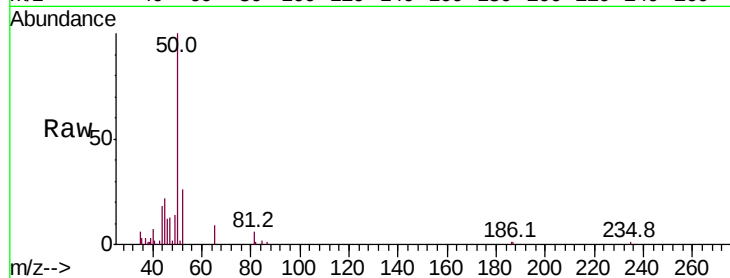
Acq: 9 Nov 2021 18:08

Tot Ion: 50 Resp: 29692

Ion Ratio Lower Upper

50 100

52 26.2 26.3 39.5#



#9

Propene

Concen: 4.314 ppbv

RT: 3.20 min Scan# 130

Delta R.T. 0.19 min

Lab File: VL037984.D

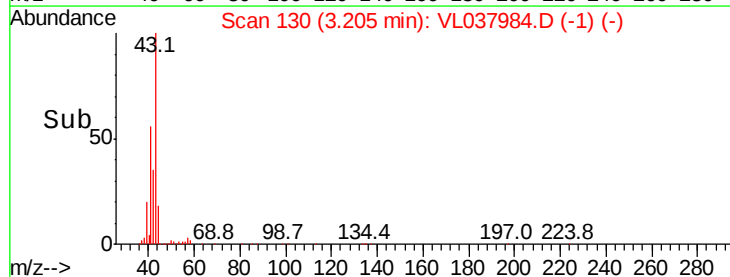
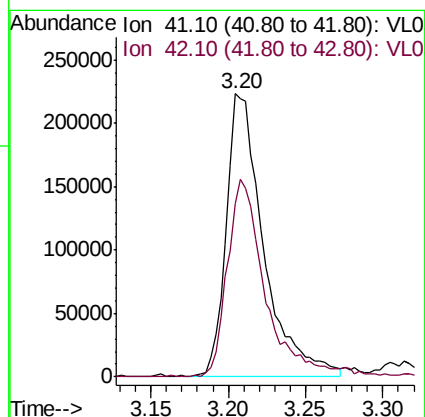
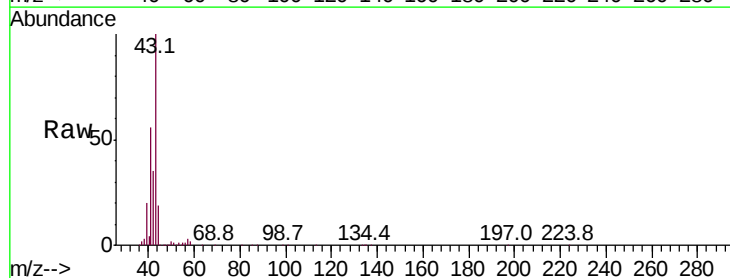
Acq: 9 Nov 2021 18:08

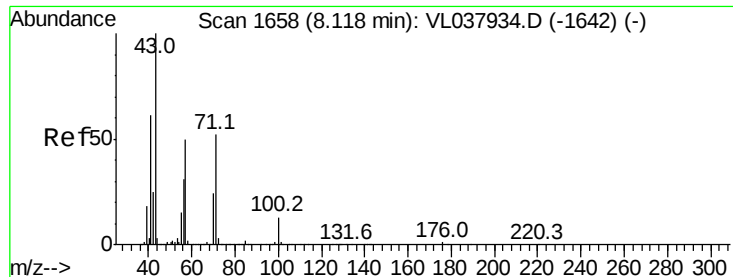
Tgt Ion: 41 Resp: 372925

Ion Ratio Lower Upper

41 100

42 72.8 57.6 86.4





#10

Heptane

Concen: 0.068 ppbv

RT: 8.12 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

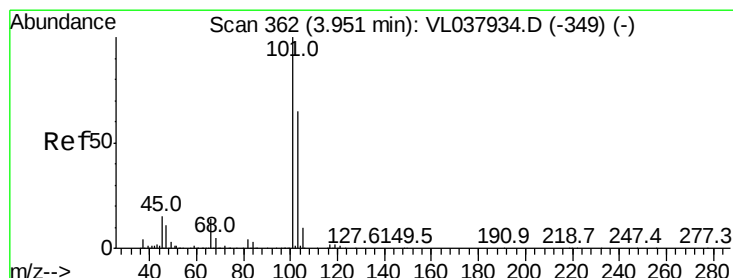
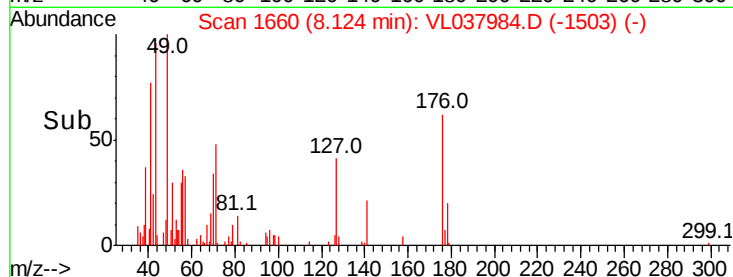
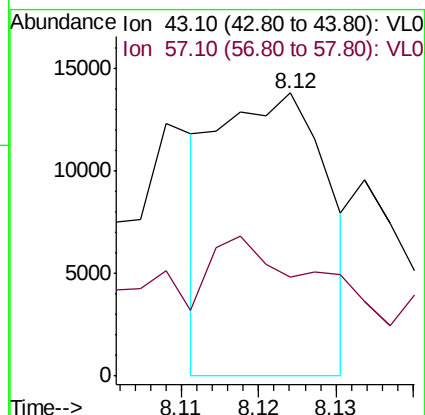
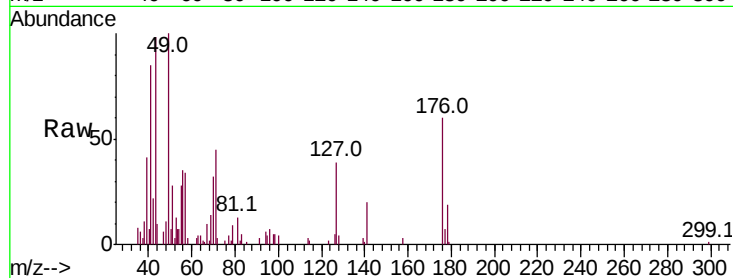
Acq: 9 Nov 2021 18:08

Tot Ion: 43 Resp: 13647

Ion Ratio Lower Upper

43 100

57 119.3 39.8 59.8#



#11

Trichlorofluoromethane

Concen: 0.042 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VL037984.D

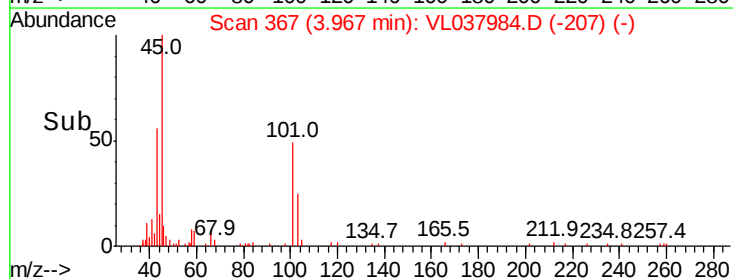
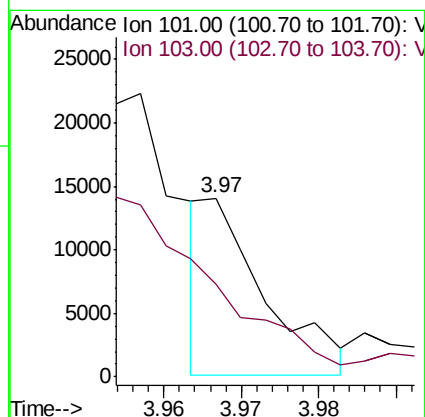
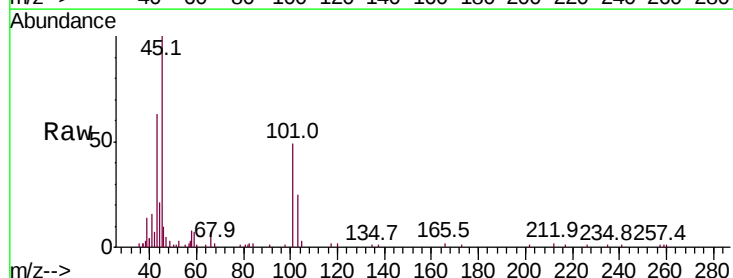
Acq: 9 Nov 2021 18:08

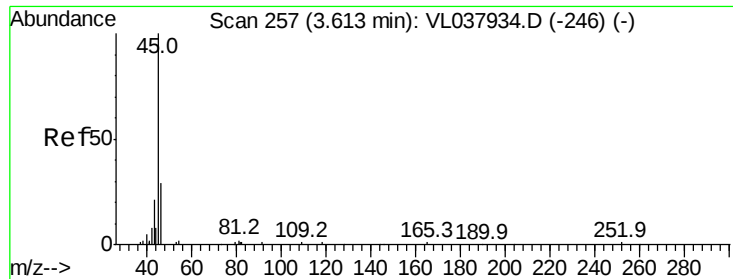
Tgt Ion: 101 Resp: 7546

Ion Ratio Lower Upper

101 100

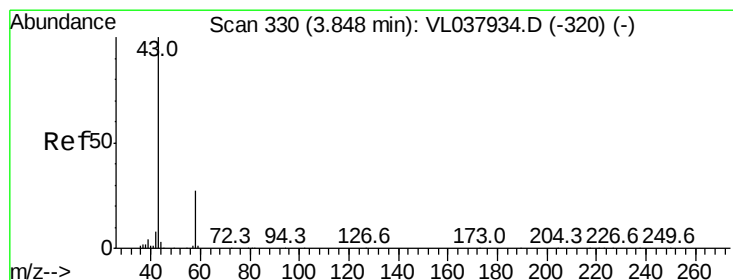
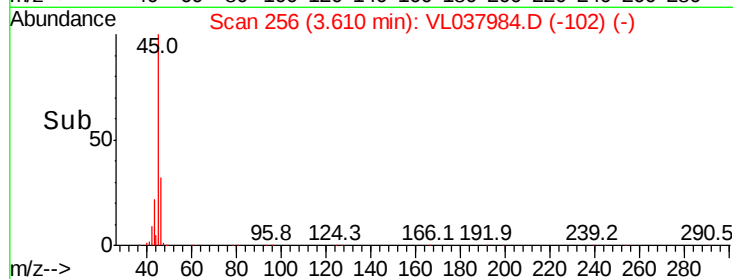
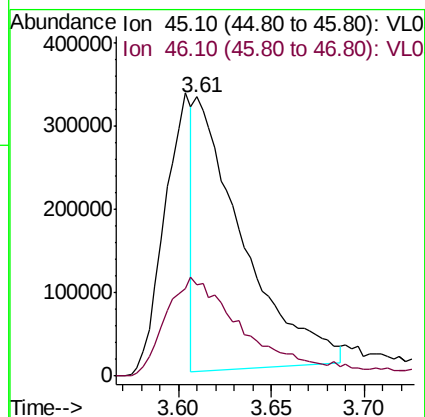
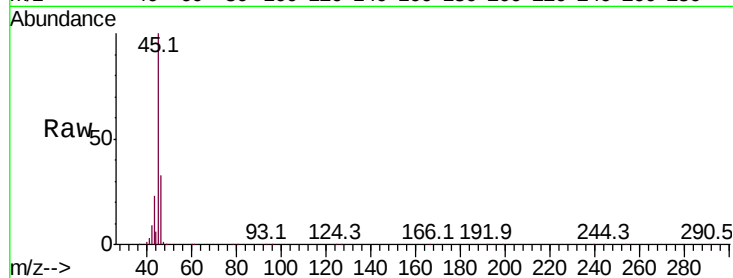
103 53.0 52.0 78.0





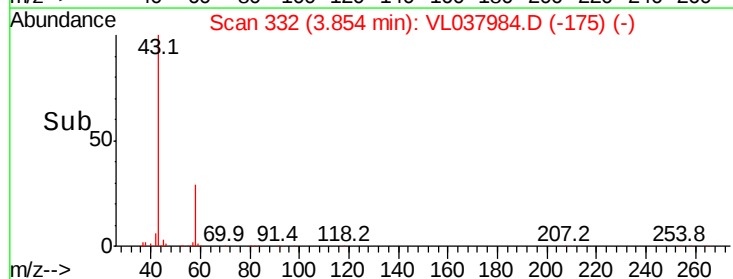
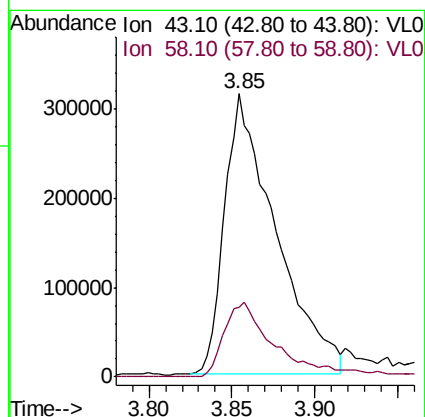
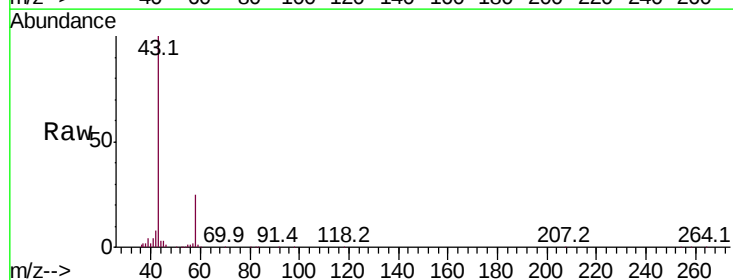
#13
 Ethanol
 Concen: 67.848 ppbv
 RT: 3.61
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 9 Nov 2021 18:08

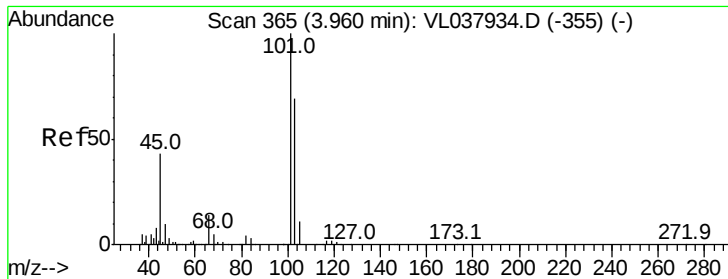
Tot Ion: 45 Resp: 591745
 Ion Ratio Lower Upper
 45 100
 46 64.7 17.4 69.8



#15
 Acetone
 Concen: 6.285 ppbv
 RT: 3.85 min Scan# 332
 Delta R.T. 0.01 min
 Lab File: VL037984.D
 Acq: 9 Nov 2021 18:08

Tgt Ion: 43 Resp: 672694
 Ion Ratio Lower Upper
 43 100
 58 28.5 23.3 34.9





#19

Isopropyl Alcohol

Concen: 0.146 ppbv

RT: 4.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

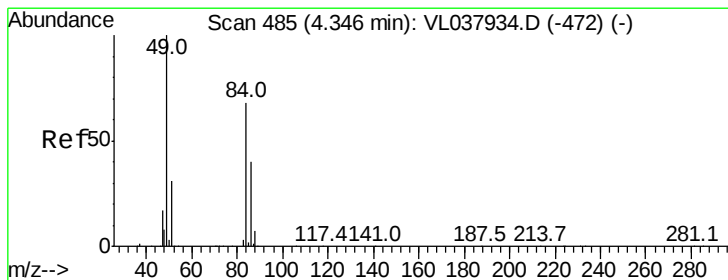
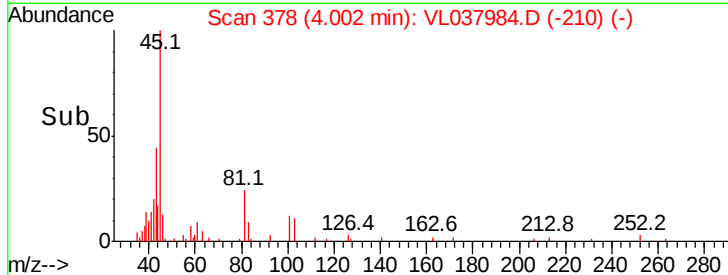
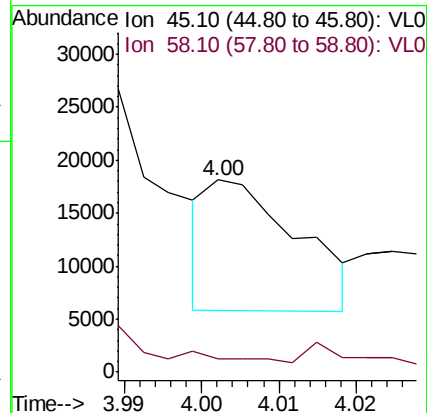
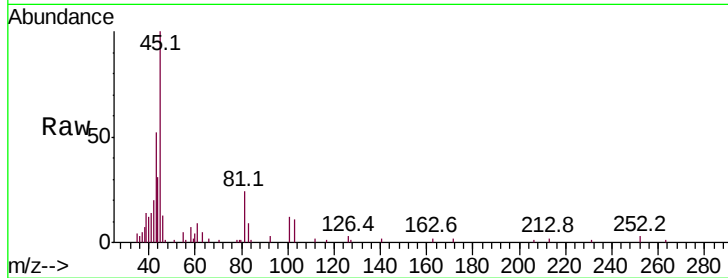
Acq: 9 Nov 2021 18:08

Tot Ion: 45 Resp: 9988

Ion Ratio Lower Upper

45 100

58 0.0 4.0 6.0#



#20

Methylene Chloride

Concen: 1.157 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.00 min

Lab File: VL037984.D

Acq: 9 Nov 2021 18:08

Tgt Ion: 84 Resp: 68012

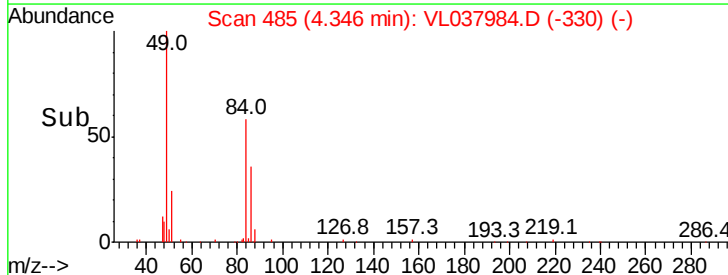
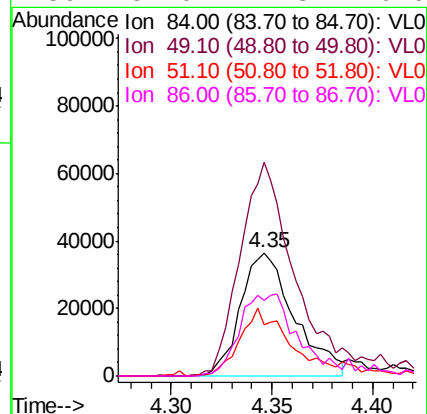
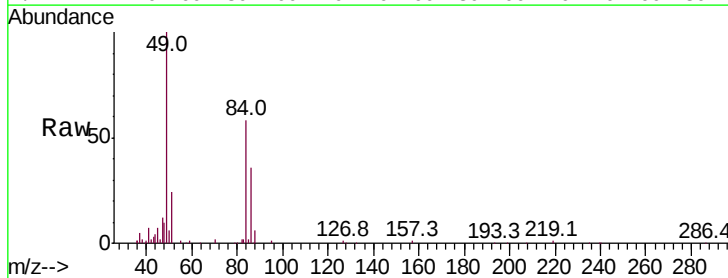
Ion Ratio Lower Upper

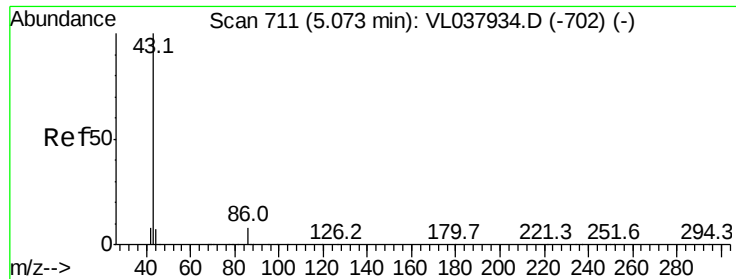
84 100

49 172.5 117.5 176.3

51 41.2 35.9 53.9

86 61.0 47.3 70.9





#23

Vinyl Acetate

Concen: 0.039 ppbv

RT: 5.07 Instrument:

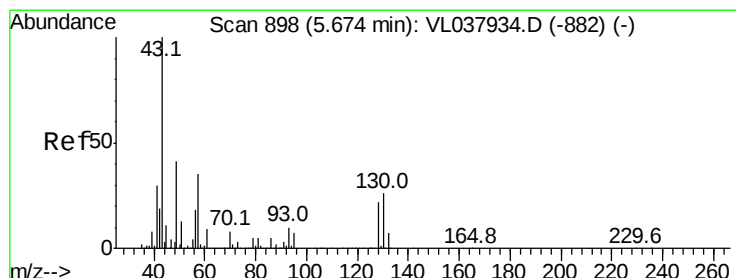
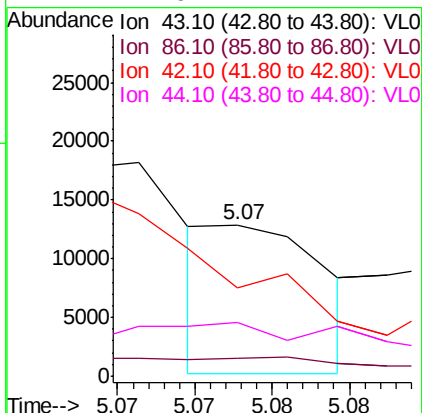
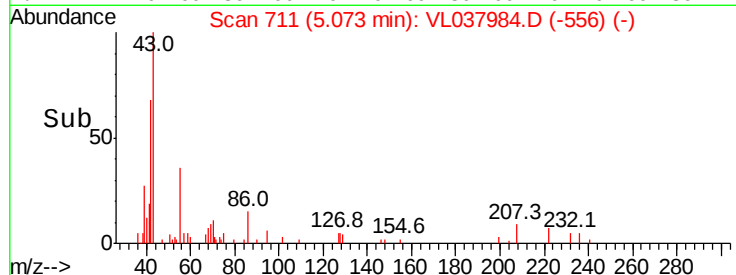
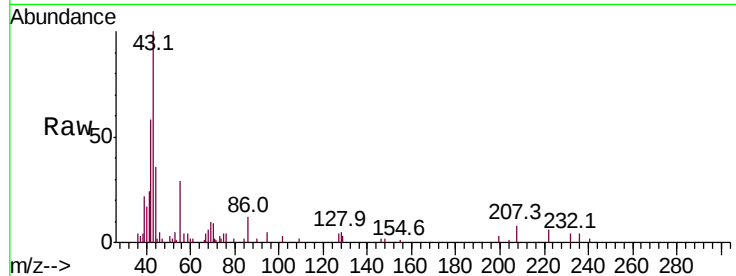
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 9 Nov 2021 18:08

Tot Ion: 43 Resp: 6263

Ion	Ratio	Lower	Upper
43	100		
86	10.4	5.5	8.3#
42	61.1	7.4	11.2#
44	7.9	4.7	7.1#



#25

Ethyl Acetate

Concen: 0.255 ppbv

RT: 5.68 min Scan# 901

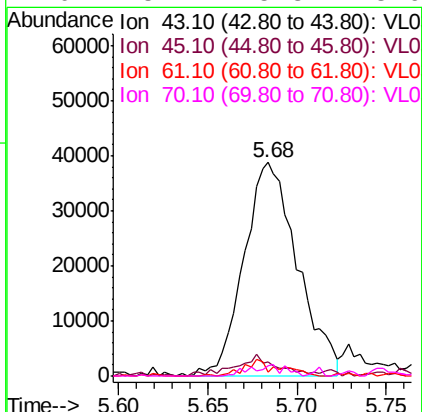
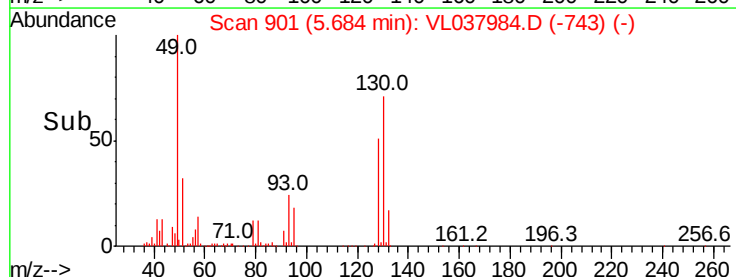
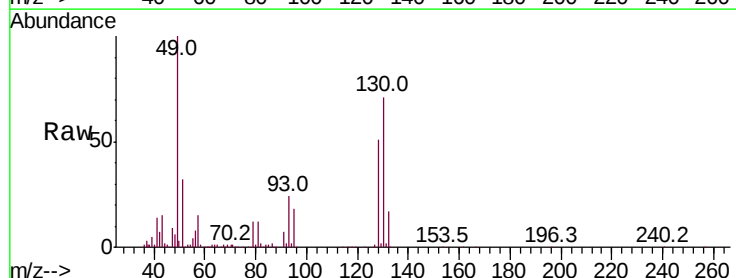
Delta R.T. 0.01 min

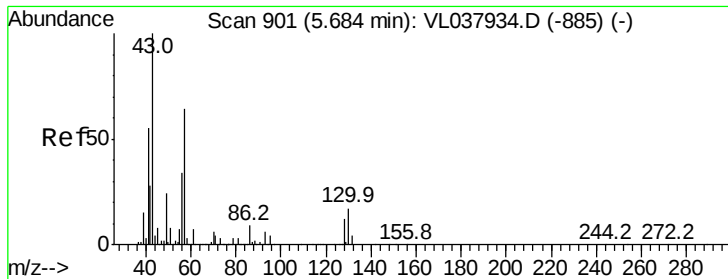
Lab File: VL037984.D

Acq: 9 Nov 2021 18:08

Tgt Ion: 43 Resp: 81182

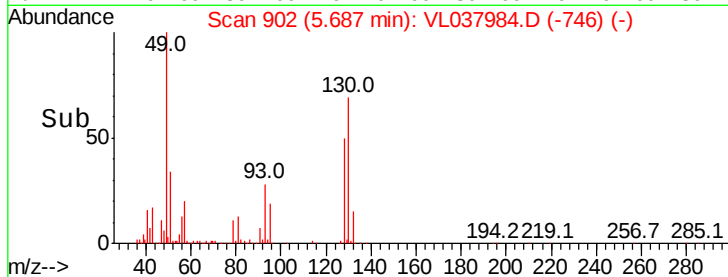
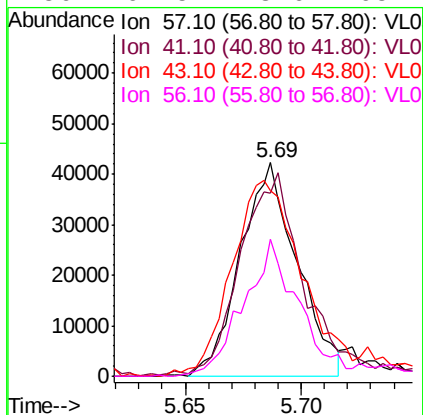
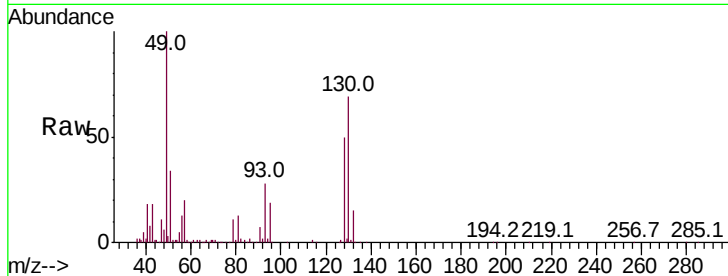
Ion	Ratio	Lower	Upper
43	100		
45	8.8	8.1	12.1
61	5.3	8.1	12.1#
70	3.4	5.8	8.6#





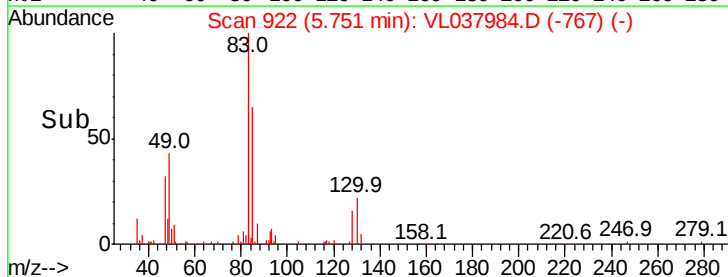
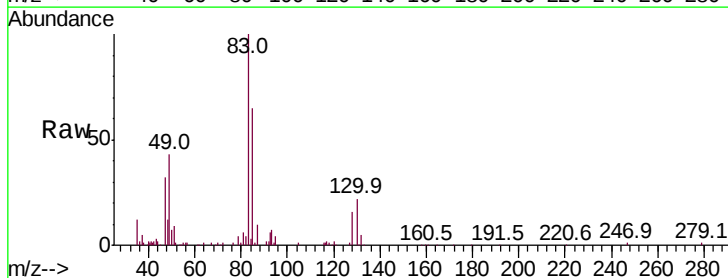
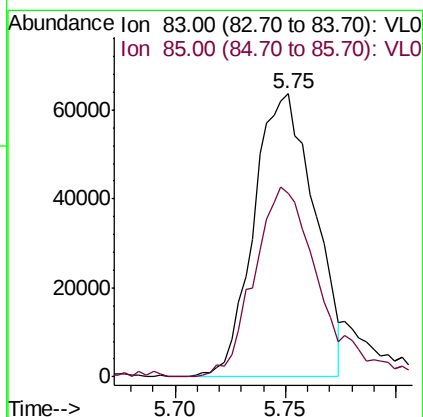
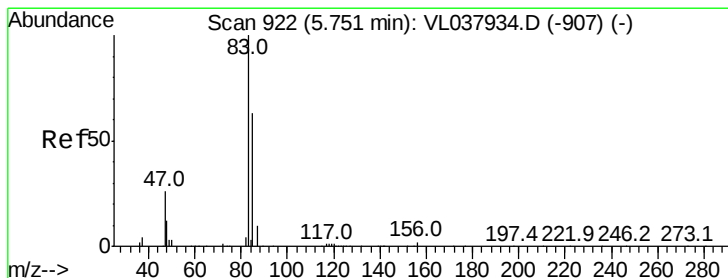
#26
Hexane
Concen: 0.480 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 9 Nov 2021 18:08

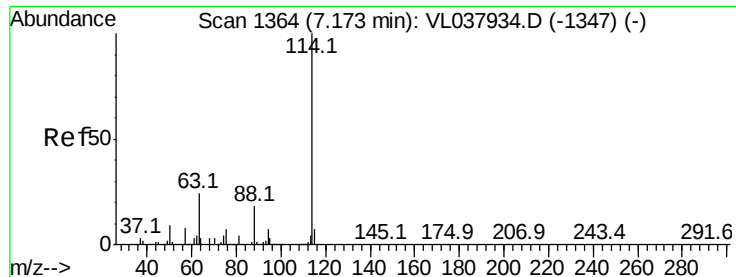
Tot Ion: 57 Resp: 72267
Ion Ratio Lower Upper
57 100
41 108.4 71.0 106.6#
43 118.6 173.0 259.6#
56 67.5 43.6 65.4#



#29
Chloroform
Concen: 0.537 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.00 min
Lab File: VL037984.D
Acq: 9 Nov 2021 18:08

Tgt Ion: 83 Resp: 120665
Ion Ratio Lower Upper
83 100
85 64.9 50.6 76.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 9 Nov 2021 18:08

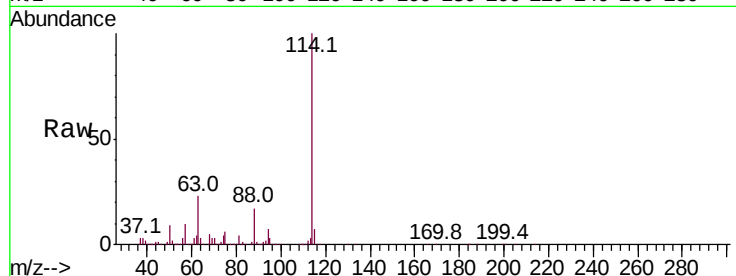
Tot Ion:114 Resp: 3700376

Ion Ratio Lower Upper

114 100

63 24.2 19.4 29.0

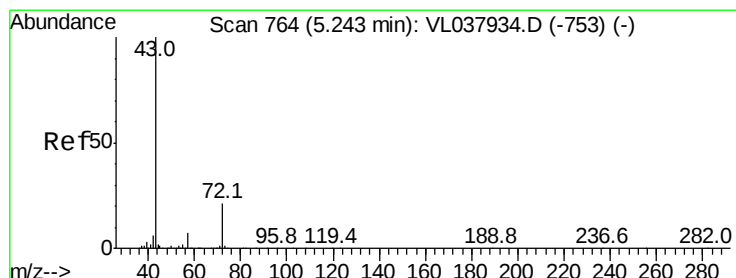
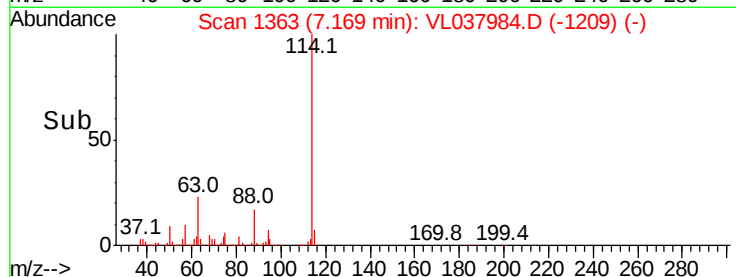
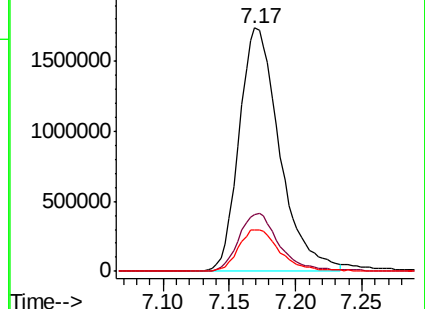
88 17.9 14.2 21.4



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: 0.305 ppbv

RT: 5.25 min Scan# 766

Delta R.T. 0.01 min

Lab File: VL037984.D

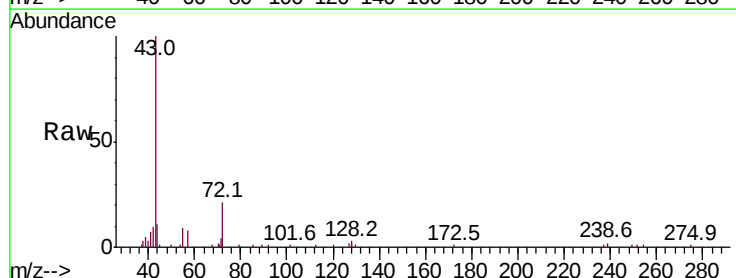
Acq: 9 Nov 2021 18:08

Tgt Ion: 43 Resp: 41836

Ion Ratio Lower Upper

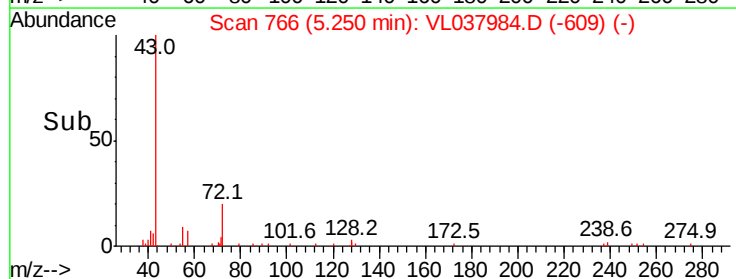
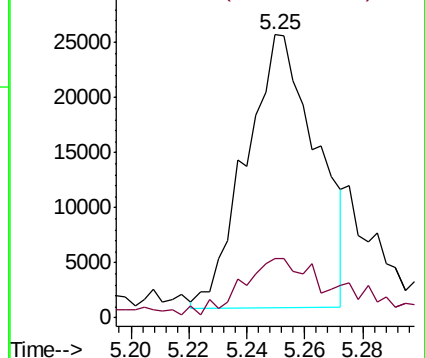
43 100

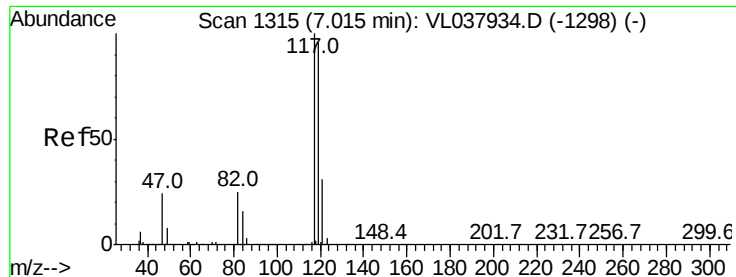
72 32.2 18.3 27.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

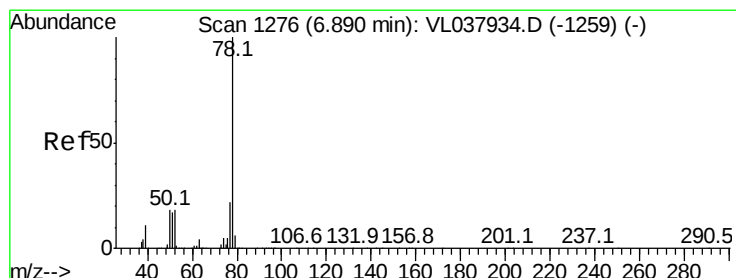
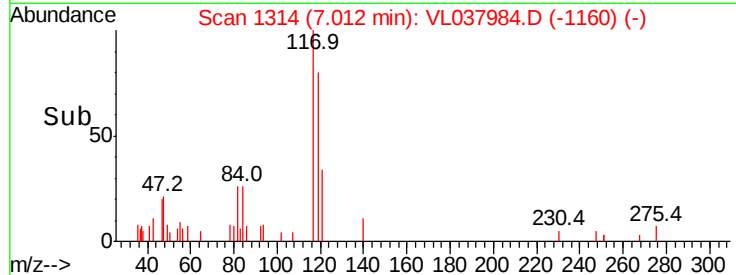
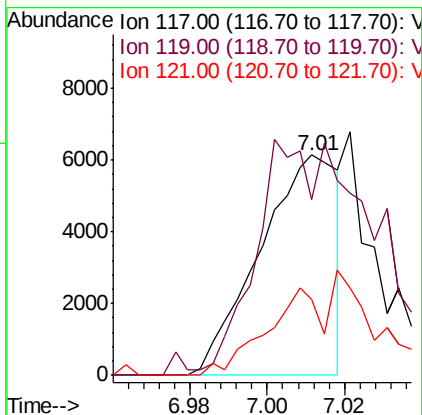
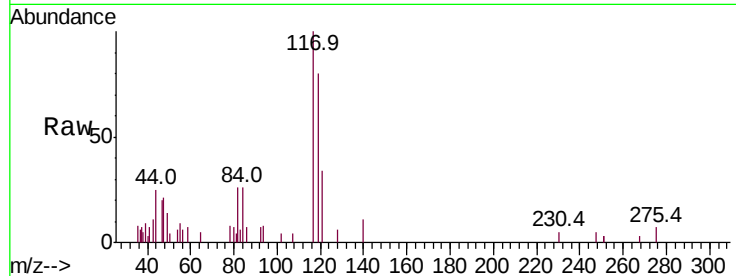
Ion 72.10 (71.80 to 72.80): VL0





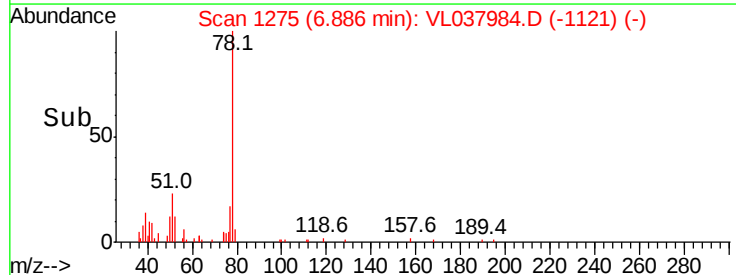
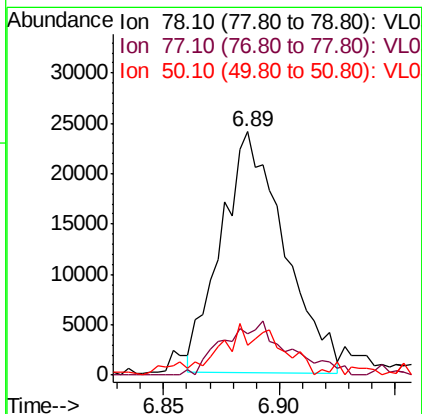
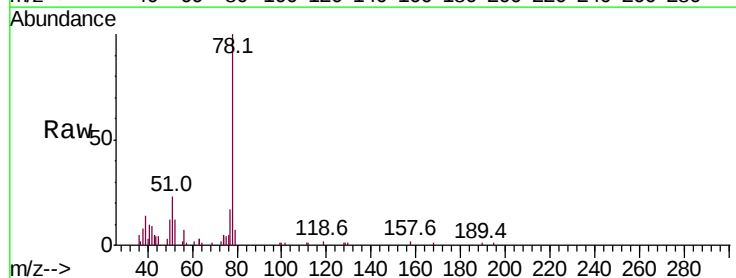
#35
Carbon Tetrachloride
Concen: 0.038 ppbv
RT: 7.01 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 9 Nov 2021 18:08

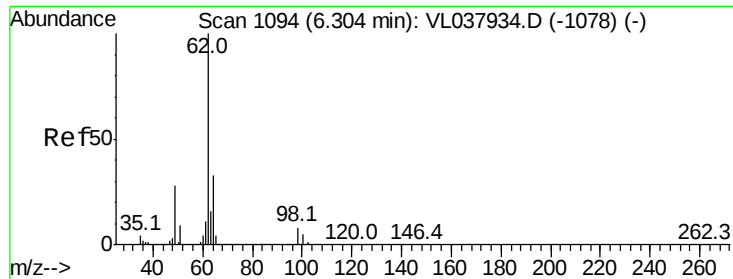
Tot Ion	Ratio	Lower	Upper
117	100		
119	80.3	76.6	114.8
121	35.8	25.1	37.7



#36
Benzene
Concen: 0.150 ppbv
RT: 6.89 min Scan# 1275
Delta R.T.: -0.00 min
Lab File: VL037984.D
Acq: 9 Nov 2021 18:08

Tgt Ion	Ratio	Lower	Upper
78	100		
77	15.7	17.9	26.9#
50	10.3	14.4	21.6#





#37

1,2-Dichloroethane

Concen: 0.030 ppbv

RT: 6.30 Instrument: MSVOA_1

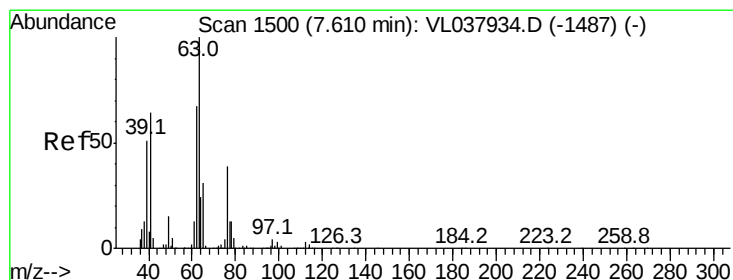
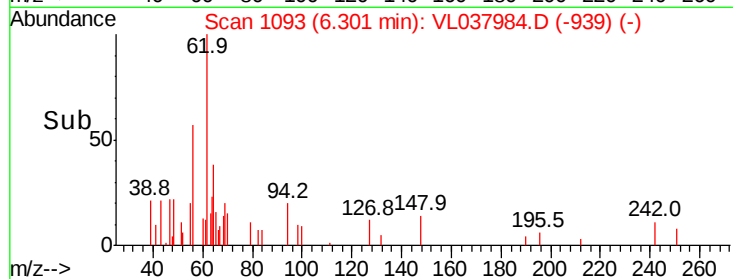
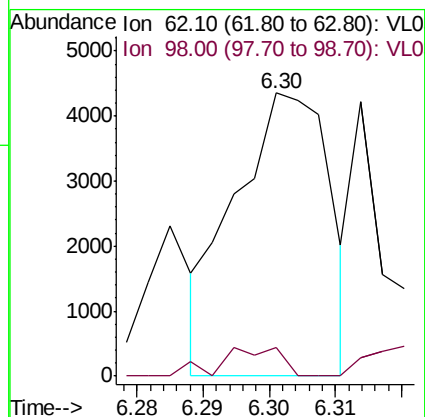
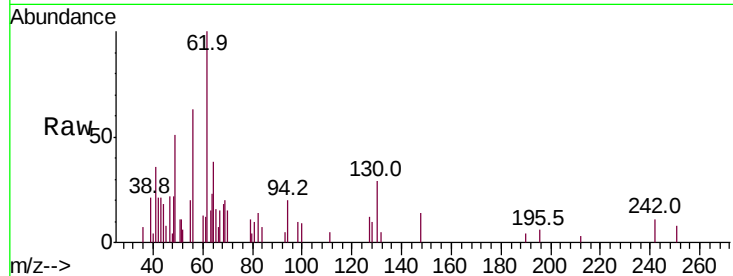
Delta R.T. ClientSampleId:

Lab File:

Acq: 9 Nov 2021 18:08

Tot Ion: 62 Resp: 4342

Ion	Ratio	Lower	Upper
62	100		
98	6.4	6.5	9.7#



#39

1,2-Dichloropropane

Concen: 7.647 ppbv

RT: 7.17 min Scan# 1364

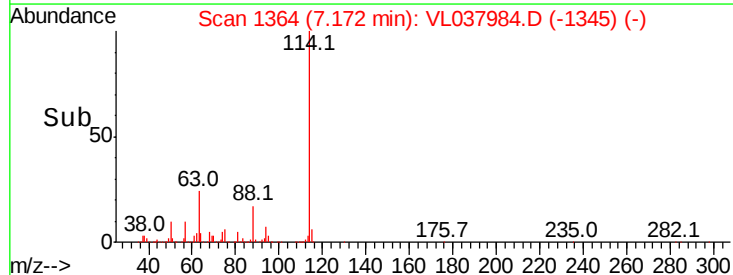
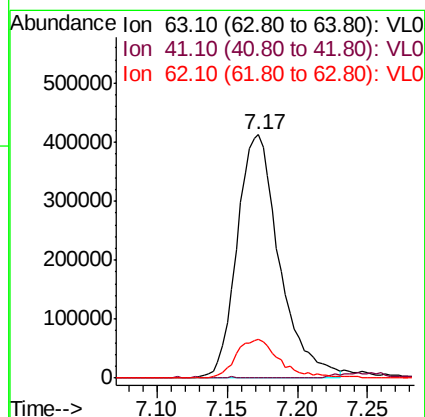
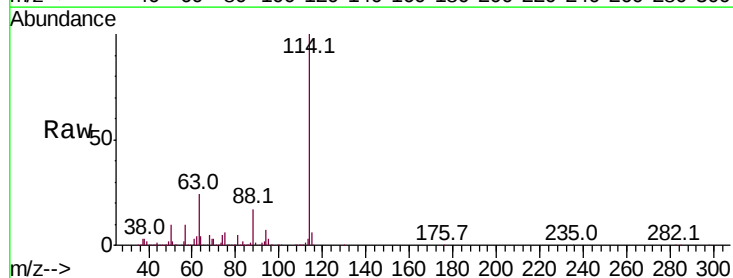
Delta R.T. -0.44 min

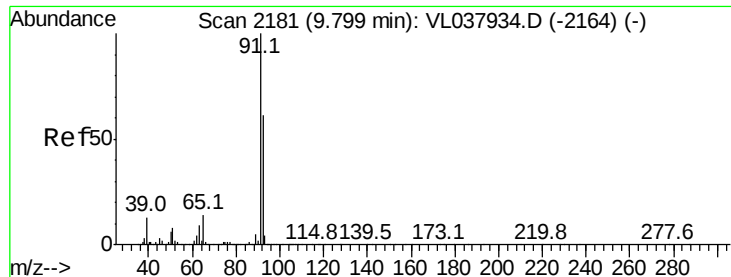
Lab File: VL037984.D

Acq: 9 Nov 2021 18:08

Tgt Ion: 63 Resp: 867053

Ion	Ratio	Lower	Upper
63	100		
41	0.0	51.6	77.4#
62	16.1	53.5	80.3#





#53

Toluene

Concen: 0.974 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

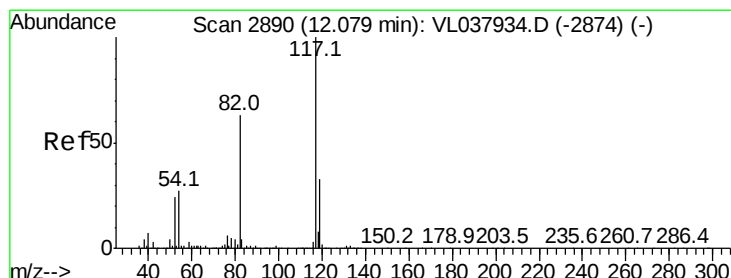
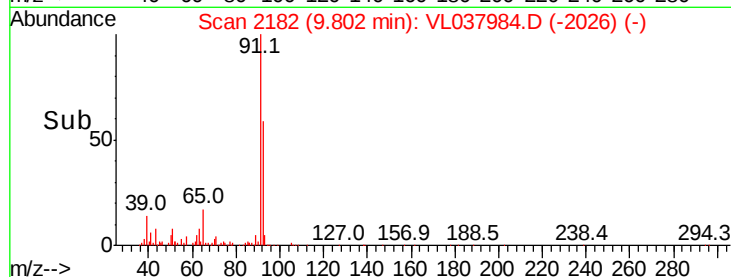
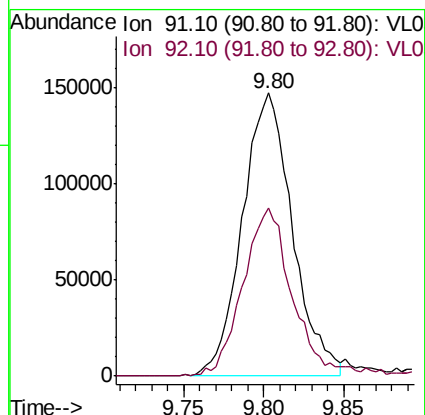
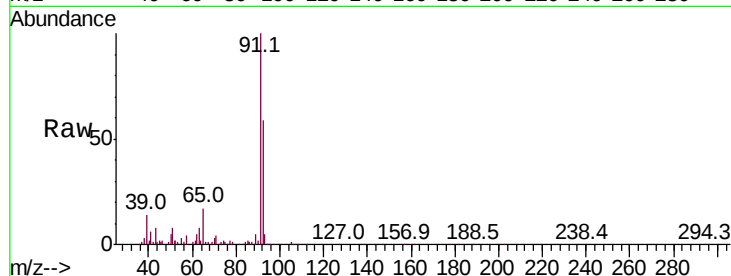
Acq: 9 Nov 2021 18:08

Tot Ion: 91 Resp: 314505

Ion Ratio Lower Upper

91 100

92 60.9 48.2 72.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.00 min

Lab File: VL037984.D

Acq: 9 Nov 2021 18:08

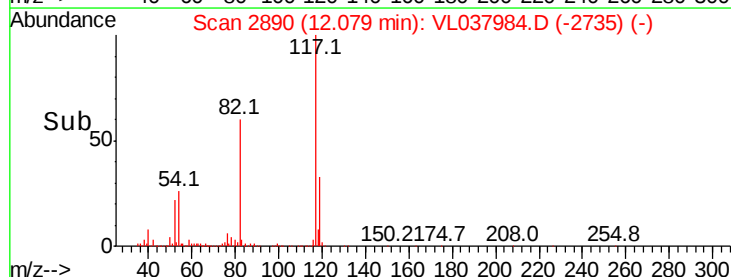
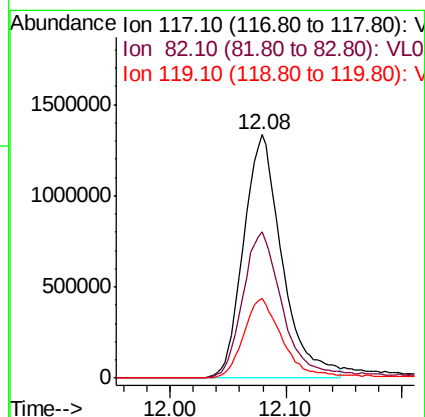
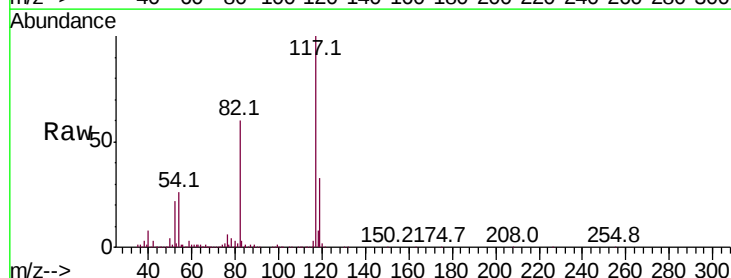
Tgt Ion: 117 Resp: 3088826

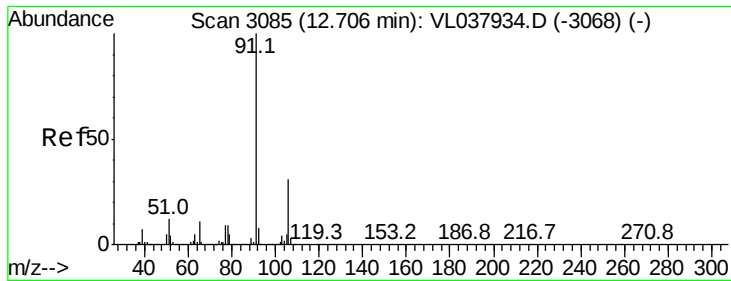
Ion Ratio Lower Upper

117 100

82 64.2 51.0 76.6

119 34.0 26.9 40.3





#58

Ethyl Benzene

Concen: 0.036 ppbv

RT: 12.69 min

Delta R.T. MSVOA_L

Lab File:

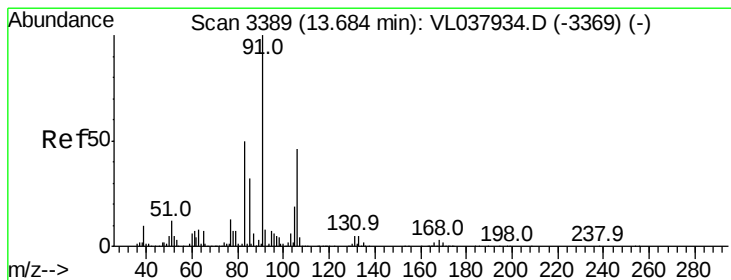
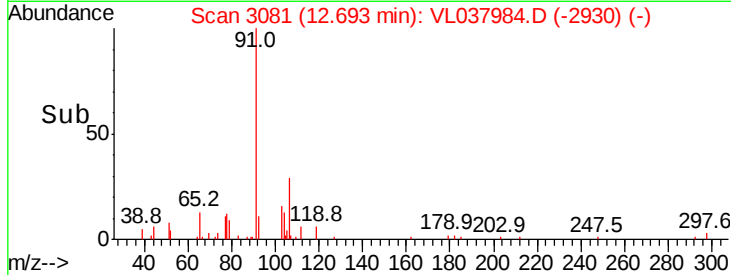
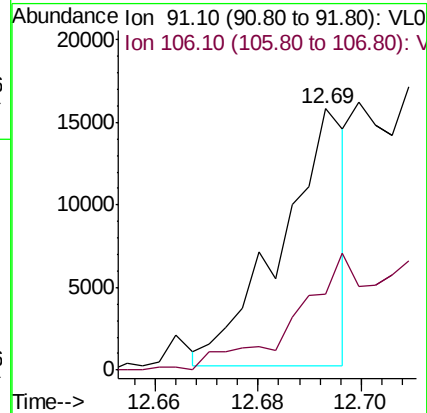
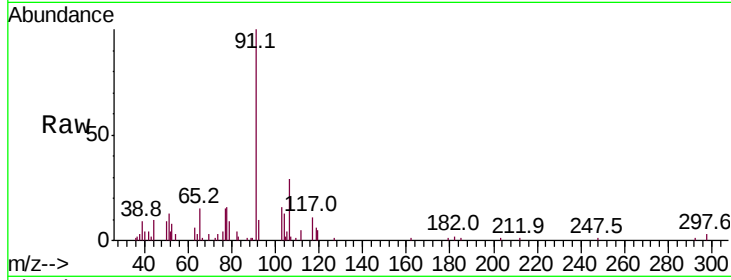
Acq: 9 Nov 2021 18:08

Tot Ion: 91 Resp: 13520

Ion Ratio Lower Upper

91 100

106 31.3 25.1 37.7



#60

o-Xylene

Concen: 0.160 ppbv

RT: 13.69 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VL037984.D

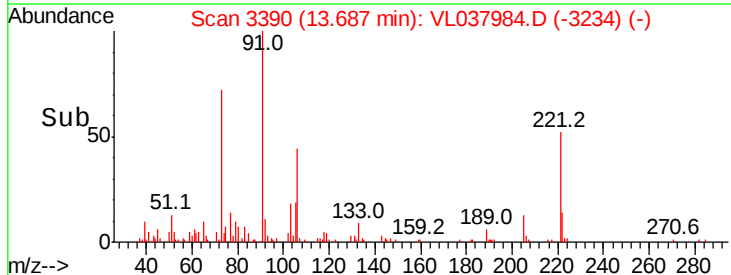
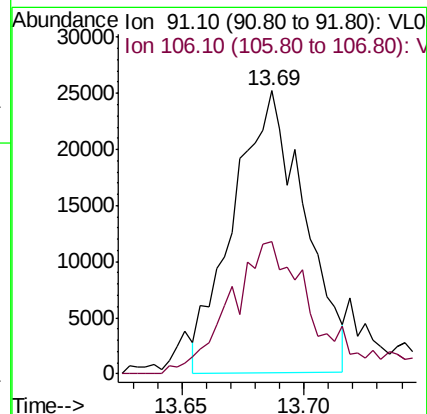
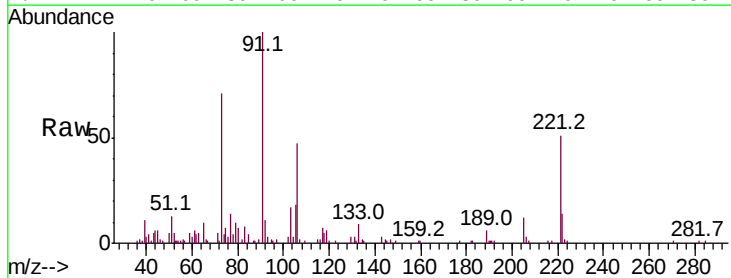
Acq: 9 Nov 2021 18:08

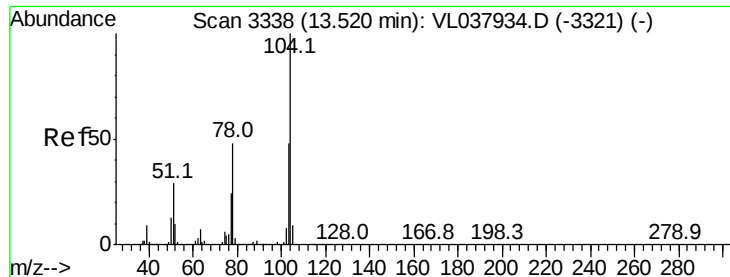
Tgt Ion: 91 Resp: 50766

Ion Ratio Lower Upper

91 100

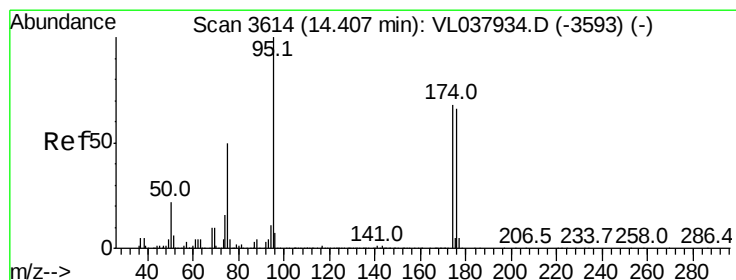
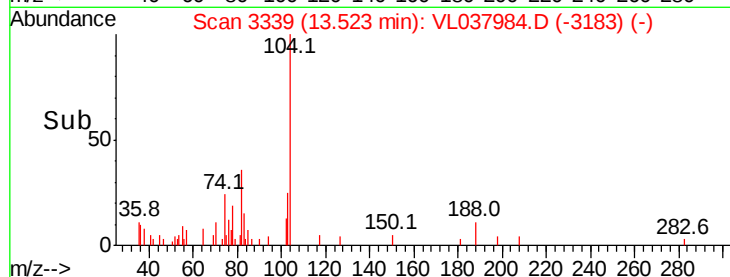
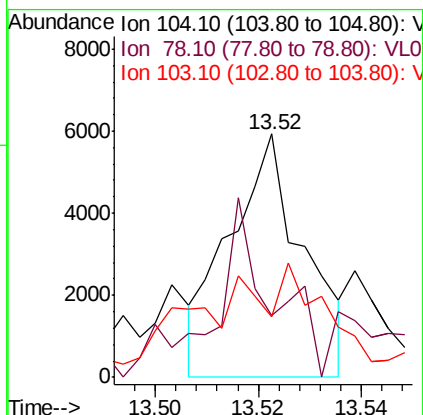
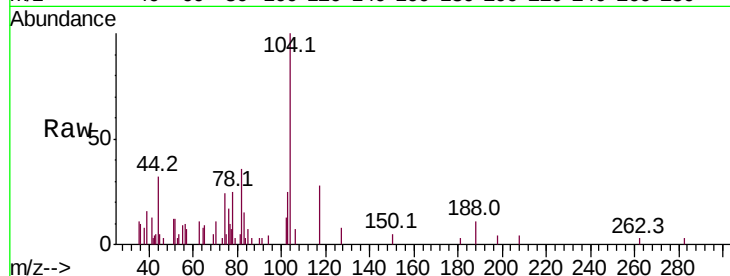
106 56.2 23.5 70.6





#61
Stvrene
Concen: 0.041 ppbv
RT: 13.52
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 9 Nov 2021 18:08

Tot Ion	Ratio	Lower	Upper
104	100		
78	58.7	39.3	58.9
103	81.0	39.6	59.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.488 ppbv
RT: 14.41 min Scan# 3615
Delta R.T. 0.00 min
Lab File: VL037984.D
Acq: 9 Nov 2021 18:08

Tgt Ion	Ratio	Lower	Upper
95	100		
174	78.5	58.3	87.5
175	5.7	4.6	6.8

