

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110221\
 Data File : VL037972.D
 Acq On : 2 Nov 2021 17:50
 Operator : SY/AP
 Sample : M4425-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Nov 03 03:49:44 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue 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	1309599	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3767627	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3269430	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2400450	10.10	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

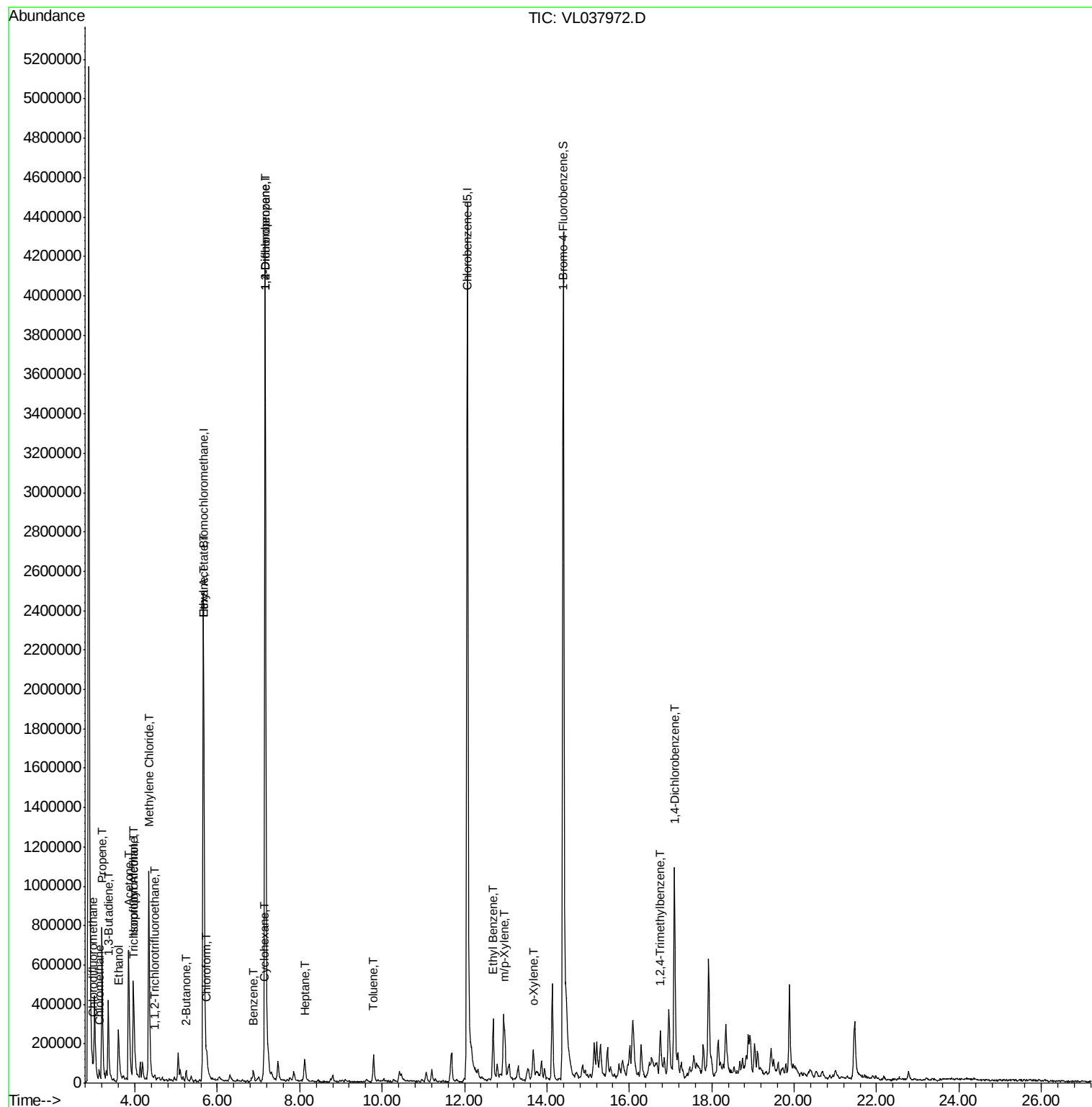
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	116595	0.478	ppbv #	81
4) Chloromethane	3.14	50	30536	0.330	ppbv	97
9) Propene	3.20	41	244508	2.797	ppbv	98
10) Heptane	8.11	43	17435	0.086	ppbv #	53
11) Trichlorofluoromethane	3.94	101	41007	0.223	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	5741	0.040	ppbv #	27
13) Ethanol	3.60	45	365848	41.488	ppbv	96
15) Acetone	3.84	43	876645	8.101	ppbv	98
16) 1,3-Butadiene	3.35	39	48023	0.563	ppbv #	29
19) Isopropyl Alcohol	3.96	45	655250	9.469	ppbv	99
20) Methylene Chloride	4.34	84	441659	7.434	ppbv	98
25) Ethyl Acetate	5.68	43	240628	0.749	ppbv #	86
26) Hexane	5.68	57	245540	1.612	ppbv #	54
29) Chloroform	5.74	83	36180	0.159	ppbv	91
30) Cyclohexane	7.12	84	9941	0.076	ppbv #	1
34) 2-Butanone	5.24	43	32881	0.236	ppbv #	53
36) Benzene	6.88	78	20132	0.066	ppbv #	93
39) 1,2-Dichloropropane	7.16	63	871080	7.545	ppbv #	28
53) Toluene	9.78	91	38297	0.116	ppbv #	20
58) Ethyl Benzene	12.70	91	252193	0.631	ppbv	94
59) m/p-Xylene	12.97	91	62743	0.177	ppbv #	30
60) o-Xylene	13.67	91	53935	0.161	ppbv #	29
74) 1,2,4-Trimethylbenzene	16.74	105	81232	0.216	ppbv #	69
76) 1,4-Dichlorobenzene	17.11	146	7565	0.033	ppbv #	1

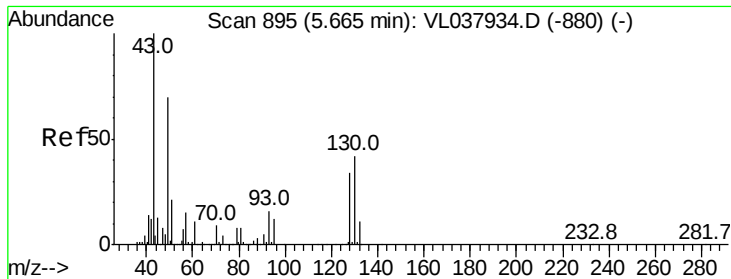
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110221\
Data File : VL037972.D
Acq On : 2 Nov 2021 17:50
Operator : SY/AP
Sample : M4425-02
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Nov 03 03:49:44 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 02 05:54:07 2021
QLast Update : Tue Nov 02 05:54:07 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 1A1

Acq: 2 Nov 2021 17:50

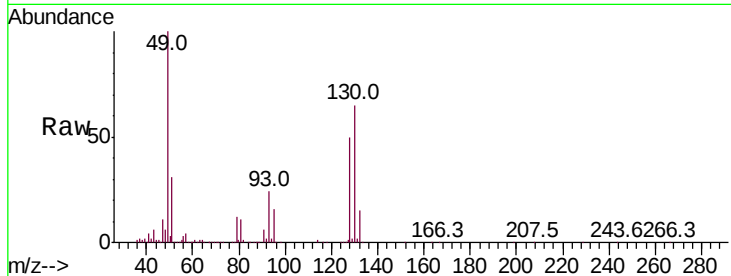
Tot Ion: 49 Resp: 1309599

Ion Ratio Lower Upper

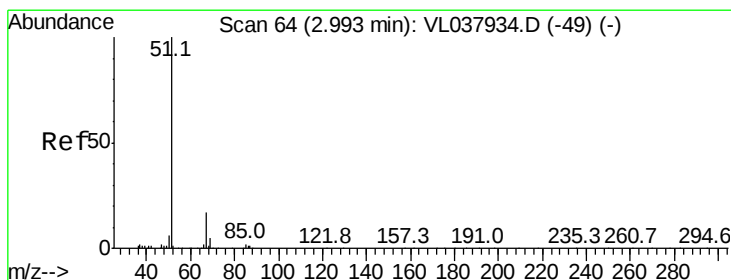
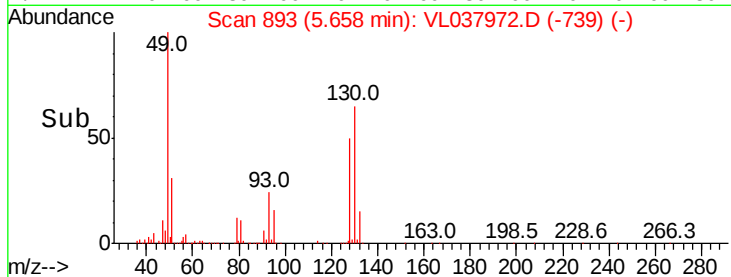
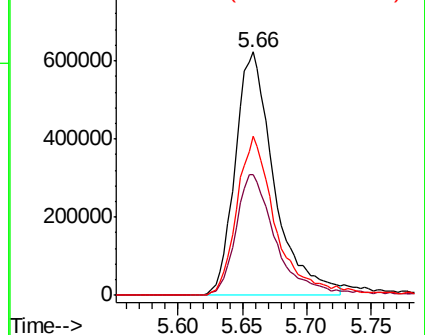
49 100

128 52.4 27.0 81.0

130 67.8 33.4 100.2



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: 0.478 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL037972.D

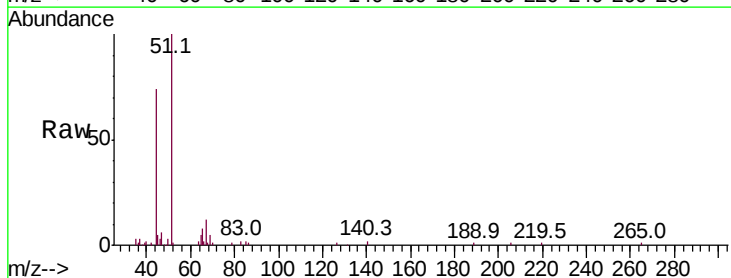
Acq: 2 Nov 2021 17:50

Tgt Ion: 51 Resp: 116595

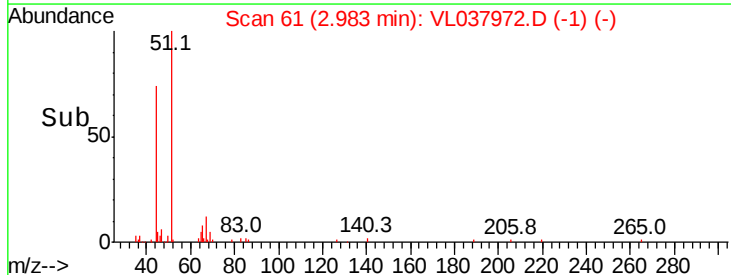
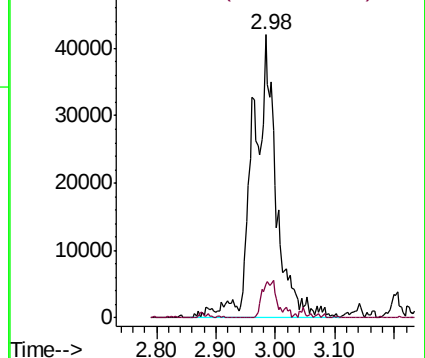
Ion Ratio Lower Upper

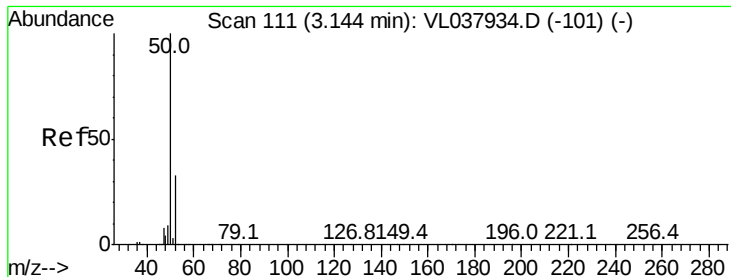
51 100

67 8.7 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: 0.330 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

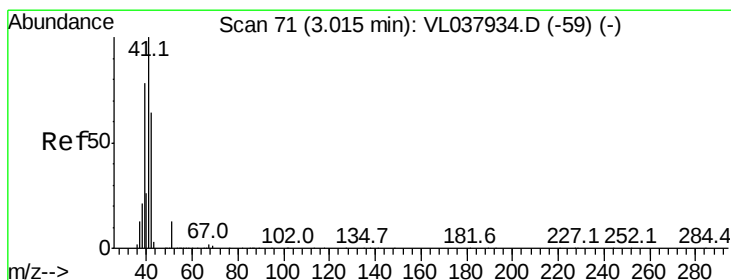
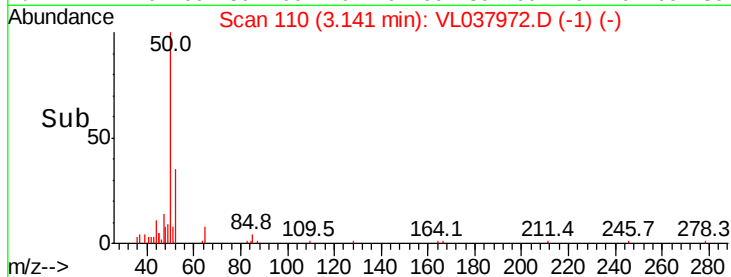
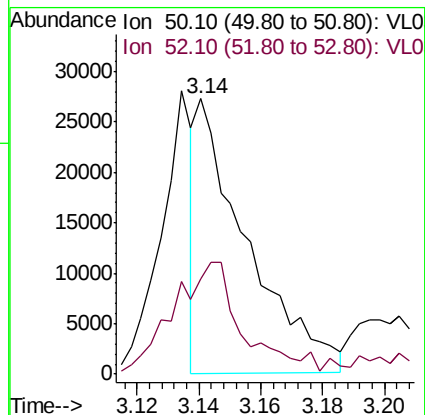
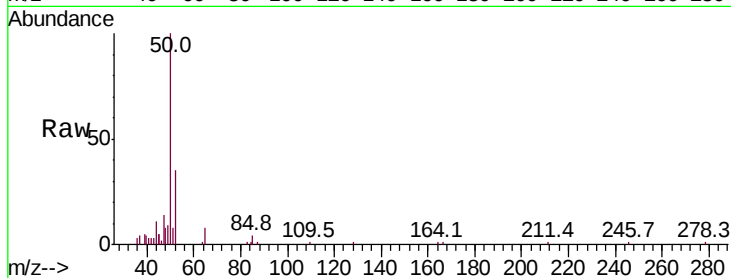
Acq: 2 Nov 2021 17:50

Tot Ion: 50 Resp: 30536

Ion Ratio Lower Upper

50 100

52 34.4 26.3 39.5



#9

Propene

Concen: 2.797 ppbv

RT: 3.20 min Scan# 130

Delta R.T. 0.19 min

Lab File: VL037972.D

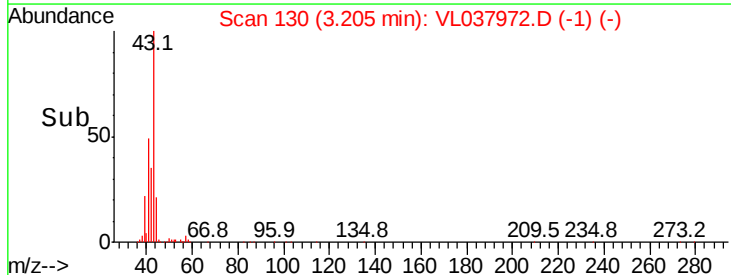
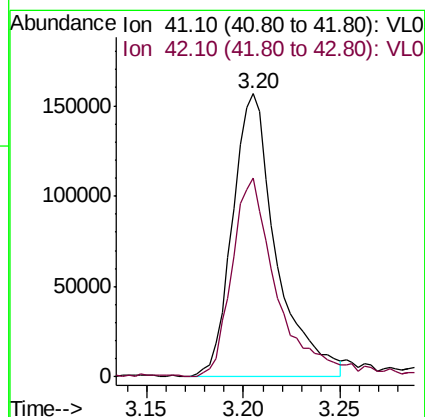
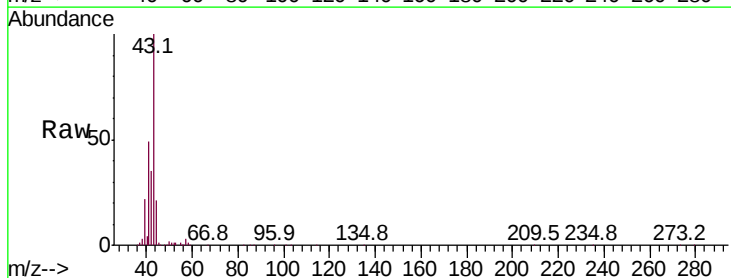
Acq: 2 Nov 2021 17:50

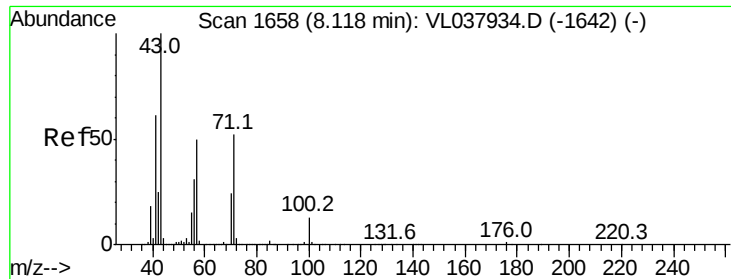
Tgt Ion: 41 Resp: 244508

Ion Ratio Lower Upper

41 100

42 73.9 57.6 86.4





#10

Heptane

Concen: 0.086 ppbv

RT: 8.11 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

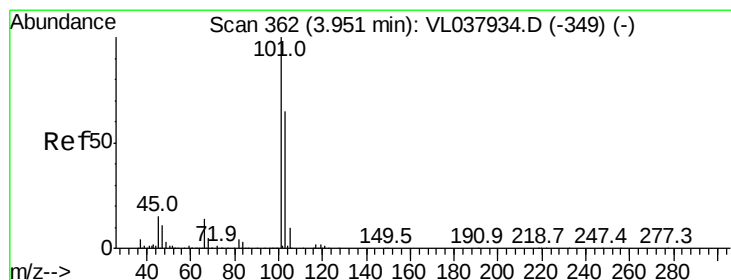
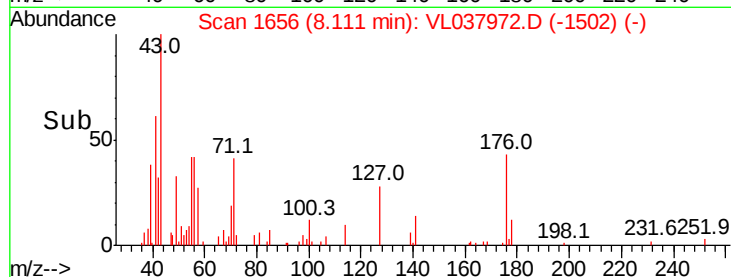
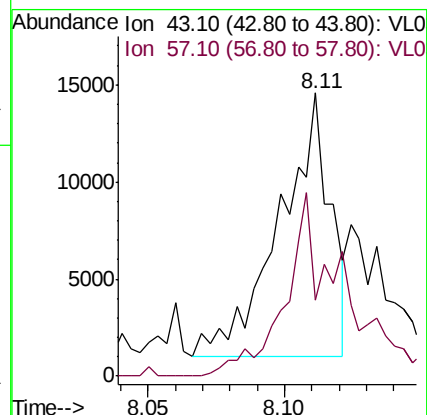
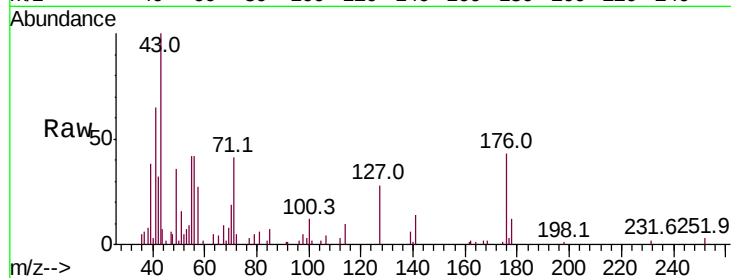
Acq: 2 Nov 2021 17:50

Tot Ion: 43 Resp: 17435

Ion Ratio Lower Upper

43 100

57 82.5 39.8 59.8#



#11

Trichlorofluoromethane

Concen: 0.223 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL037972.D

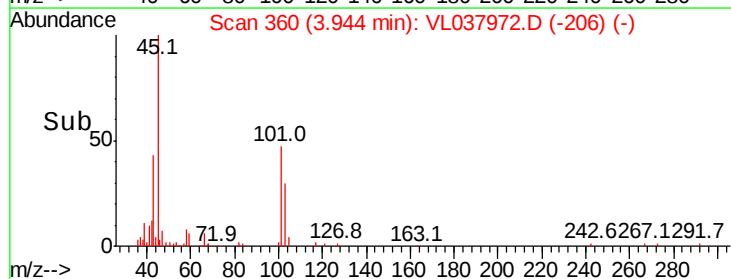
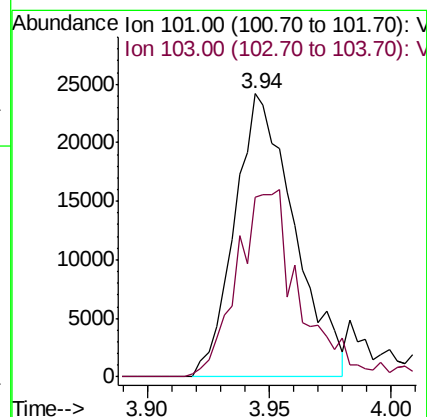
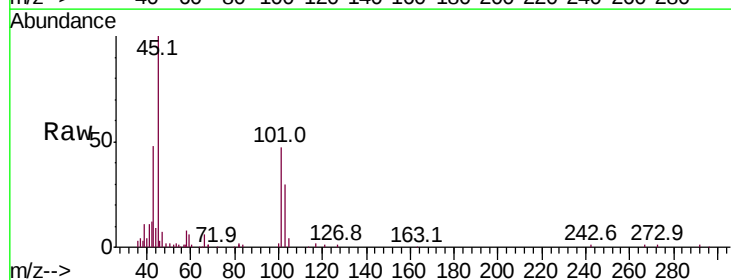
Acq: 2 Nov 2021 17:50

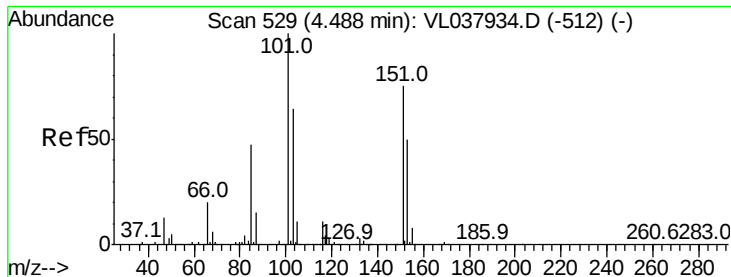
Tgt Ion: 101 Resp: 41007

Ion Ratio Lower Upper

101 100

103 62.5 52.0 78.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.040 ppbv

RT: 4.48 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA1

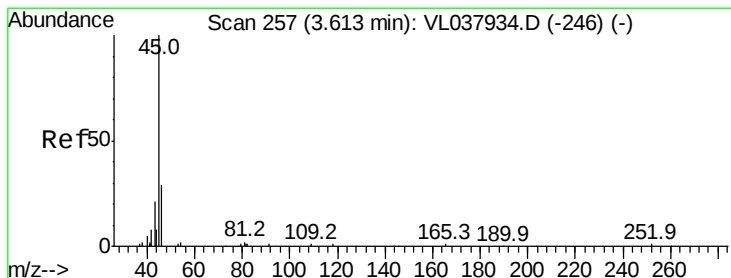
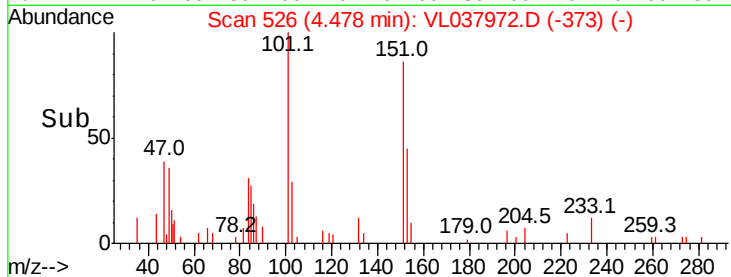
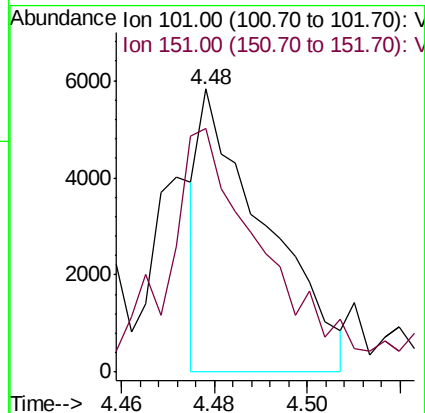
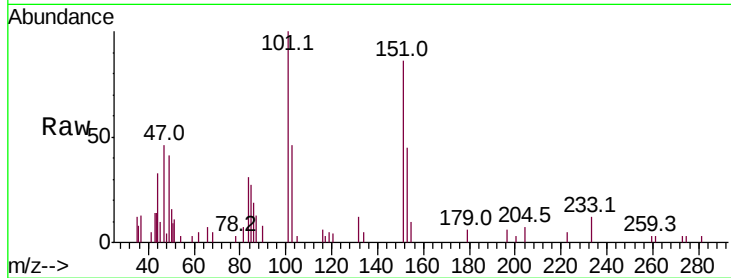
Acq: 2 Nov 2021 17:50

Tot Ion: 101 Resp: 5741

Ion Ratio Lower Upper

101 100

151 140.6 61.8 92.8#



#13

Ethanol

Concen: 41.488 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.02 min

Lab File: VL037972.D

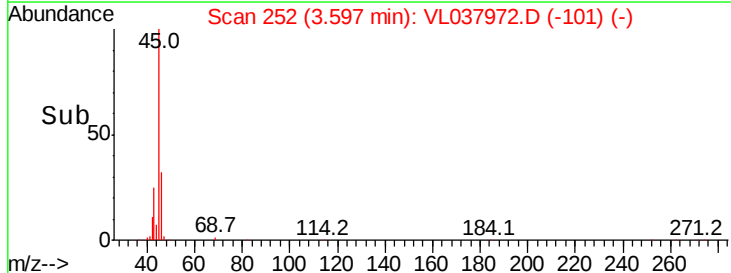
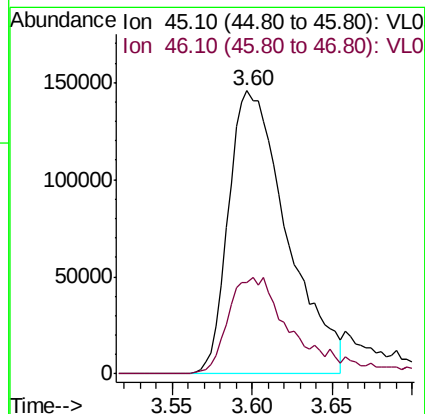
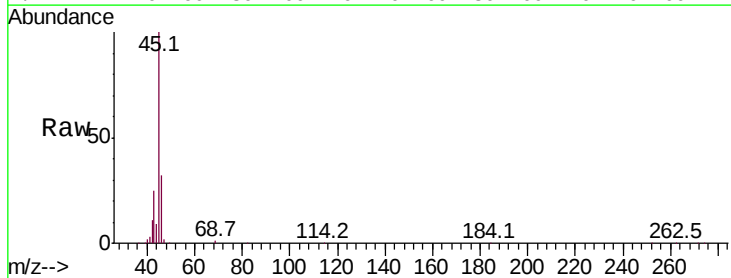
Acq: 2 Nov 2021 17:50

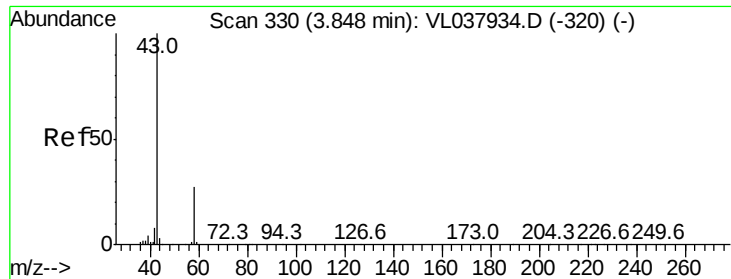
Tgt Ion: 45 Resp: 365848

Ion Ratio Lower Upper

45 100

46 40.8 17.4 69.8





#15

Acetone

Concen: 8.101 ppbv

RT: 3.84 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

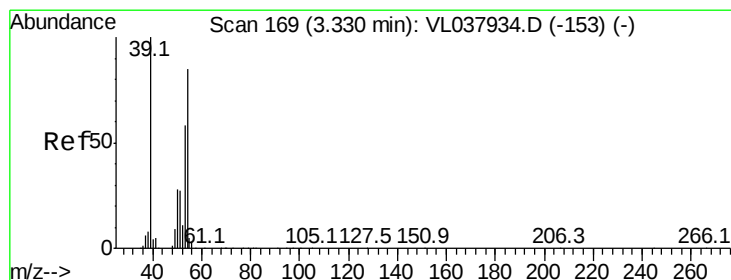
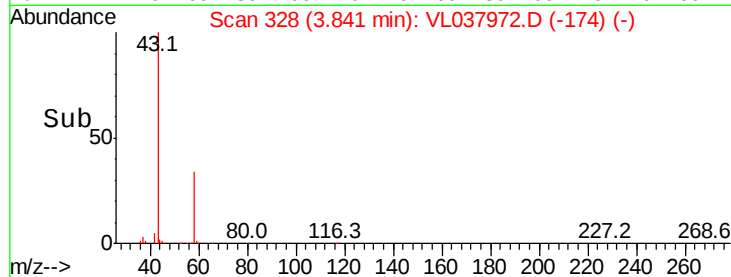
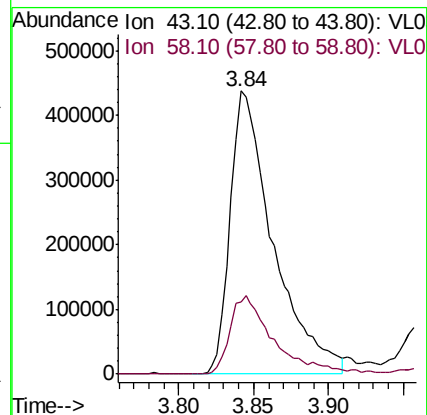
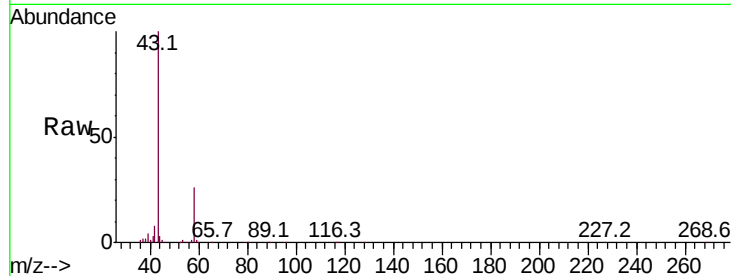
Acq: 2 Nov 2021 17:50

Tot Ion: 43 Resp: 876645

Ion Ratio Lower Upper

43 100

58 27.9 23.3 34.9



#16

1,3-Butadiene

Concen: 0.563 ppbv

RT: 3.35 min Scan# 176

Delta R.T. 0.02 min

Lab File: VL037972.D

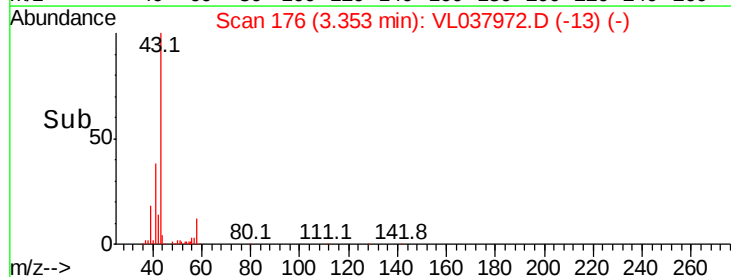
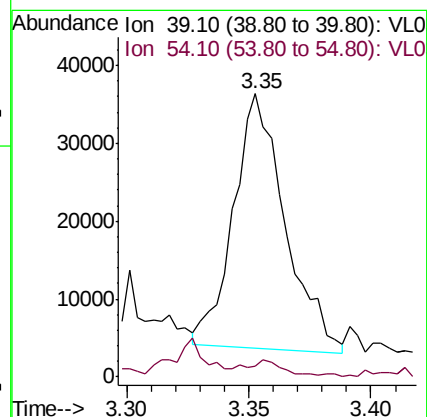
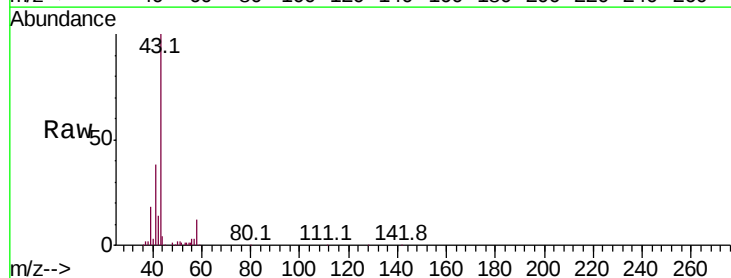
Acq: 2 Nov 2021 17:50

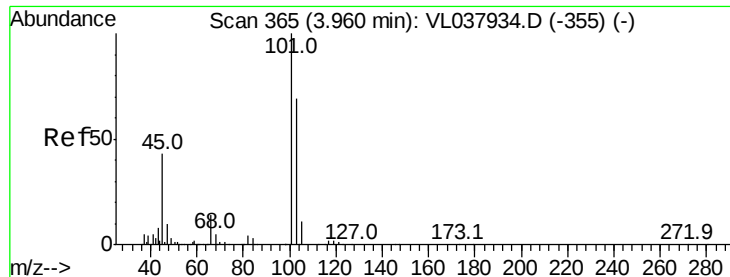
Tgt Ion: 39 Resp: 48023

Ion Ratio Lower Upper

39 100

54 16.6 62.6 93.8#





#19

Isopropyl Alcohol

Concen: 9.469 ppbv

RT: 3.96

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

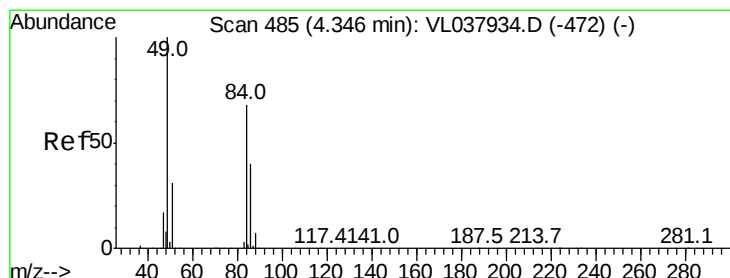
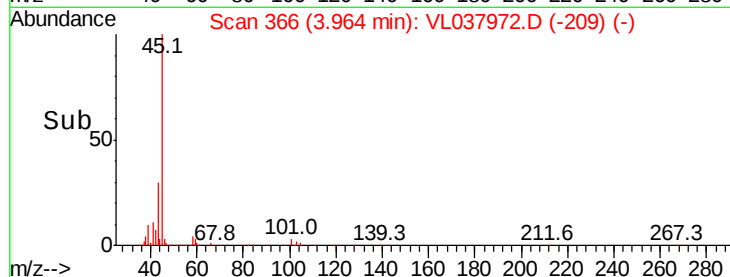
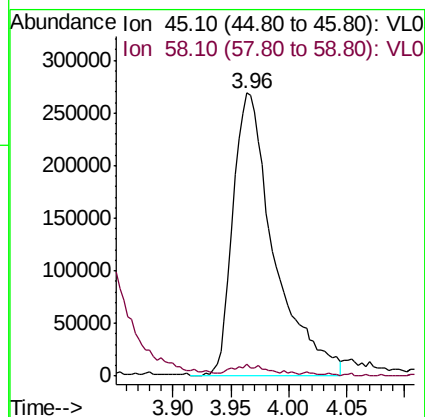
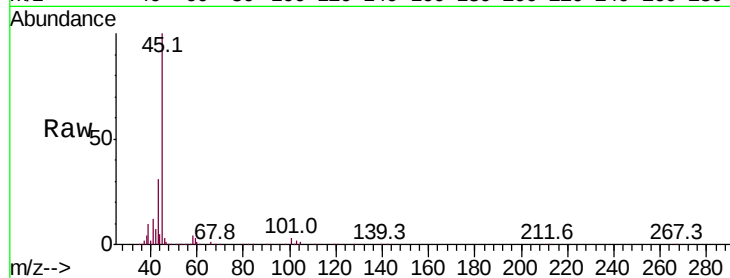
Acq: 2 Nov 2021 17:50

Tot Ion: 45 Resp: 655250

Ion Ratio Lower Upper

45 100

58 4.6 4.0 6.0



#20

Methylene Chloride

Concen: 7.434 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL037972.D

Acq: 2 Nov 2021 17:50

Tgt Ion: 84 Resp: 441659

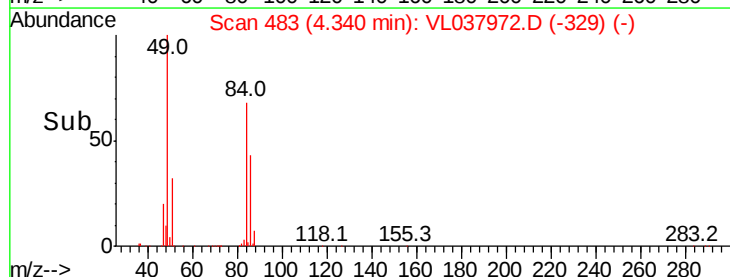
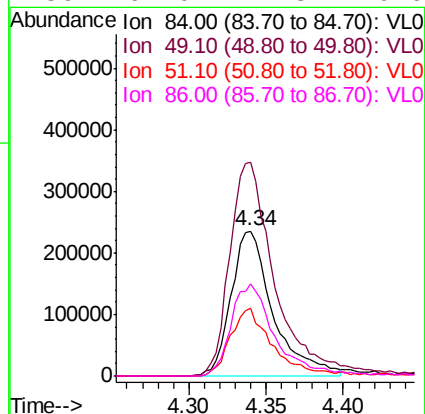
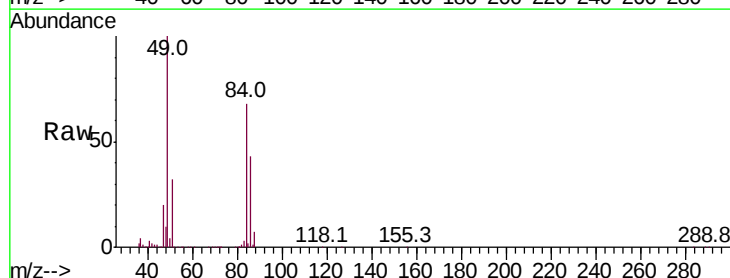
Ion Ratio Lower Upper

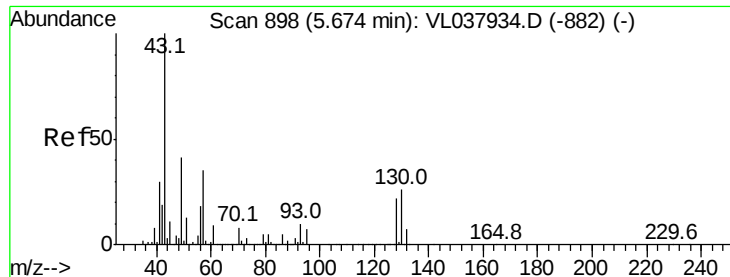
84 100

49 147.4 117.5 176.3

51 47.3 35.9 53.9

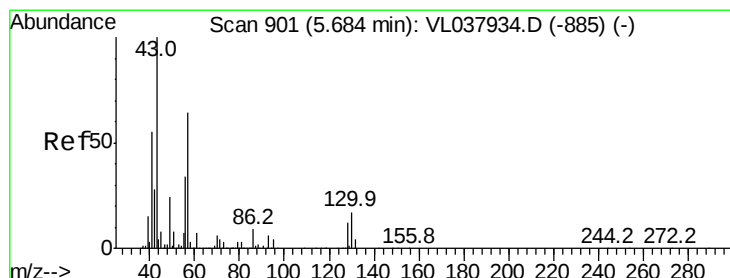
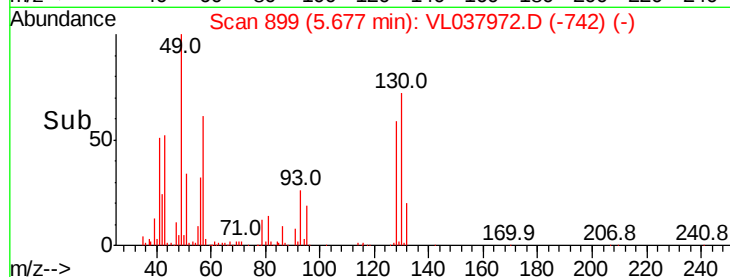
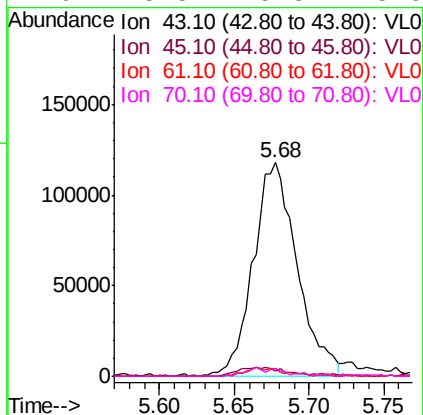
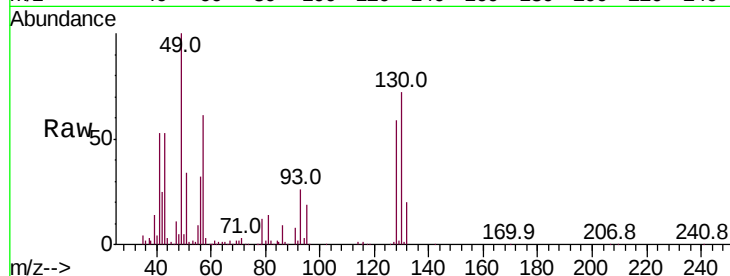
86 64.0 47.3 70.9





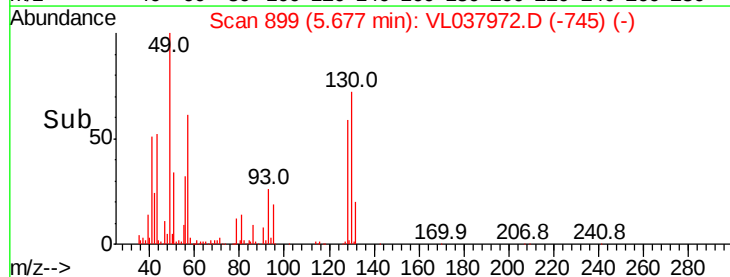
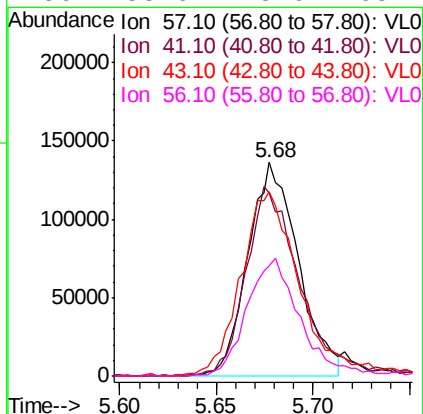
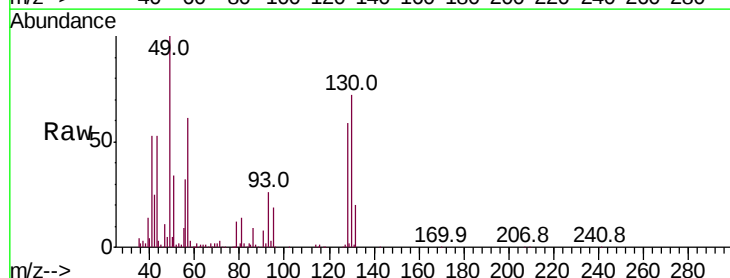
#25
Ethyl Acetate
Concen: 0.749 ppbv
RT: 5.68 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Nov 2021 17:50

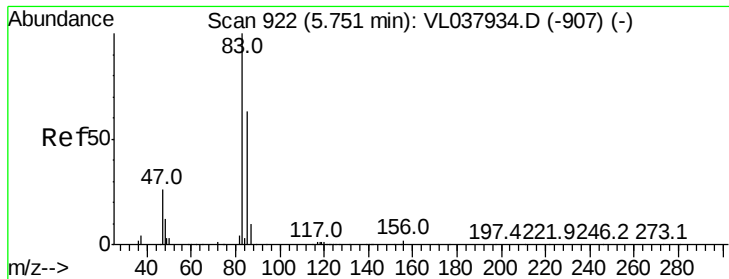
Tot Ion:	43	Resp:	240628
Ion	Ratio	Lower	Upper
43	100		
45	5.1	8.1	12.1#
61	3.8	8.1	12.1#
70	3.5	5.8	8.6#



#26
Hexane
Concen: 1.612 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

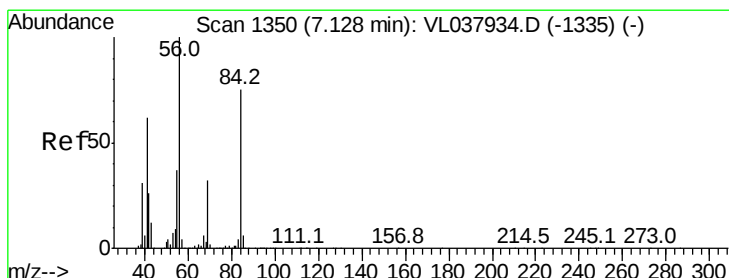
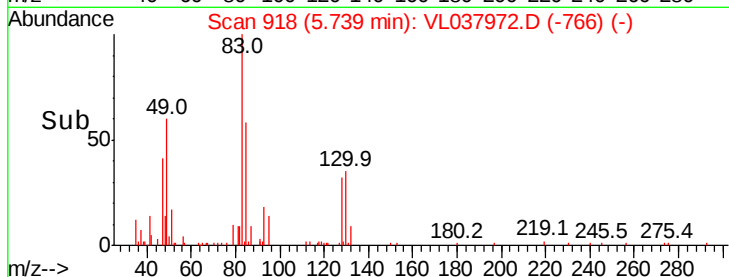
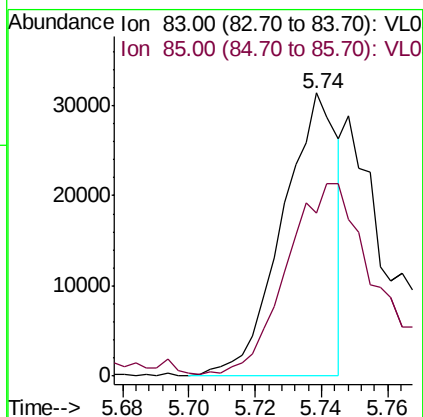
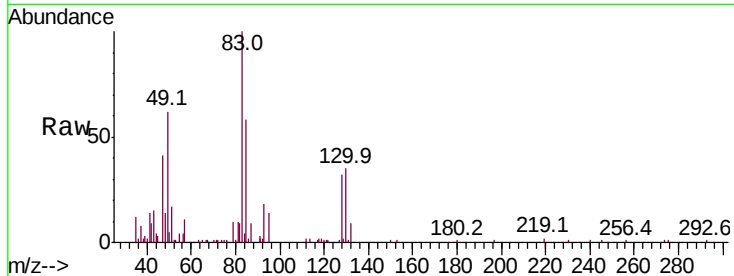
Tgt Ion:	57	Resp:	245540
Ion	Ratio	Lower	Upper
57	100		
41	98.0	71.0	106.6
43	102.8	173.0	259.6#
56	58.6	43.6	65.4





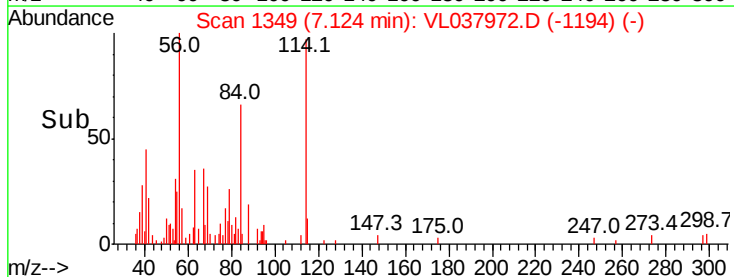
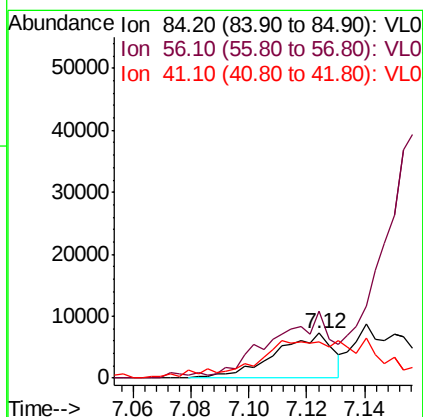
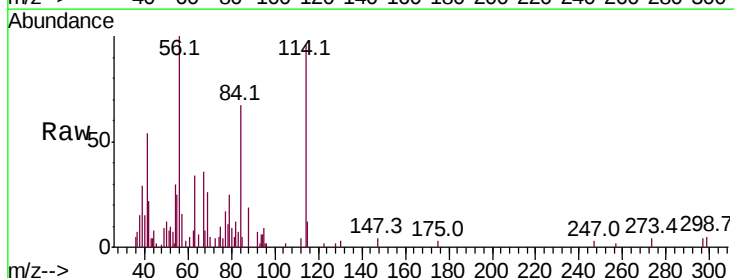
#29
Chloroform
Concen: 0.159 ppbv
RT: 5.74
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 2 Nov 2021 17:50

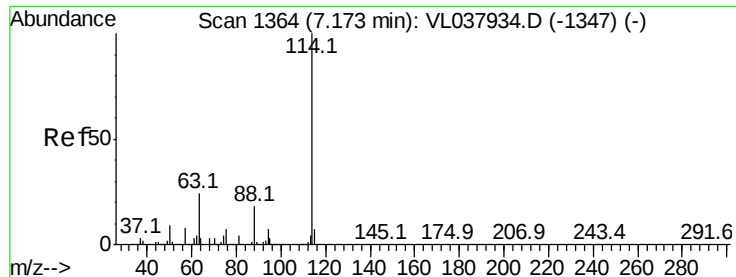
Tot Ion: 83 Resp: 36180
Ion Ratio Lower Upper
83 100
85 56.4 50.6 76.0



#30
Cyclohexane
Concen: 0.076 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. -0.00 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

Tgt Ion: 84 Resp: 9941
Ion Ratio Lower Upper
84 100
56 0.0 114.0 171.0#
41 0.0 68.3 102.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 2 Nov 2021 17:50

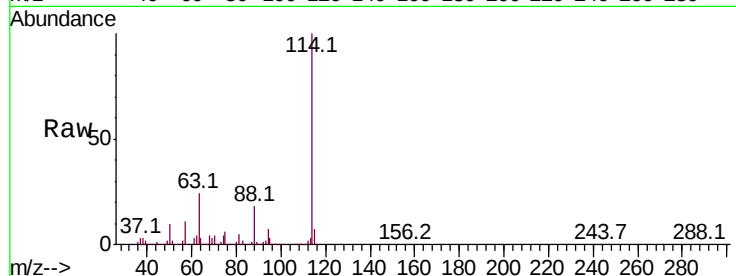
Tot Ion:114 Resp: 3767627

Ion Ratio Lower Upper

114 100

63 23.8 19.4 29.0

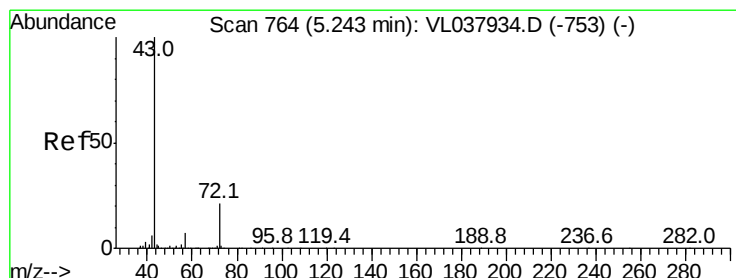
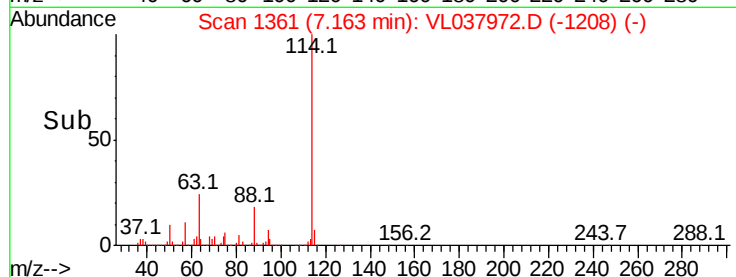
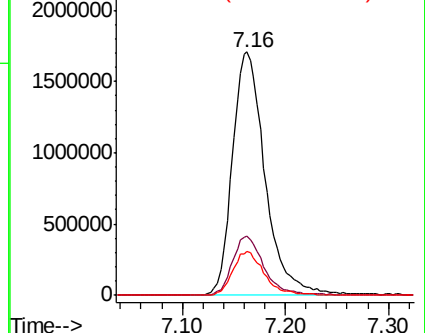
88 17.8 14.2 21.4



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: 0.236 ppbv

RT: 5.24 min Scan# 762

Delta R.T. -0.01 min

Lab File: VL037972.D

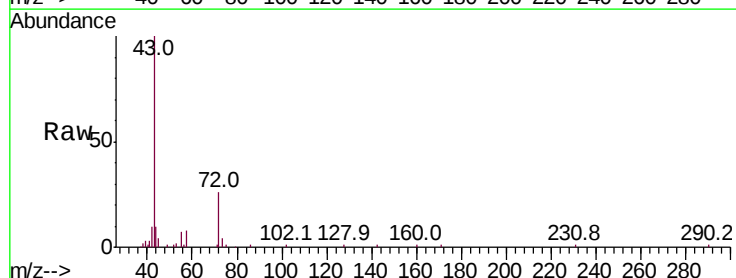
Acq: 2 Nov 2021 17:50

Tgt Ion: 43 Resp: 32881

Ion Ratio Lower Upper

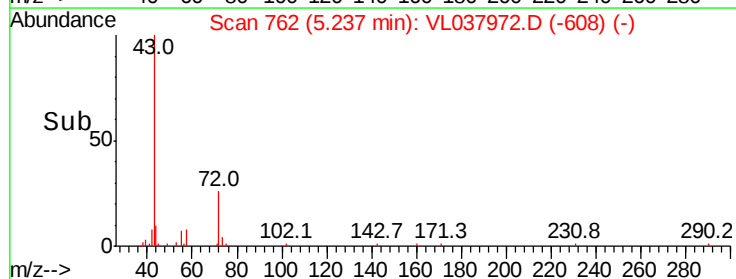
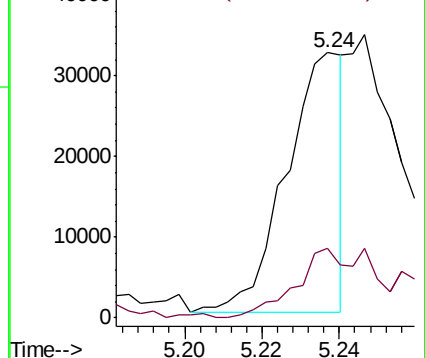
43 100

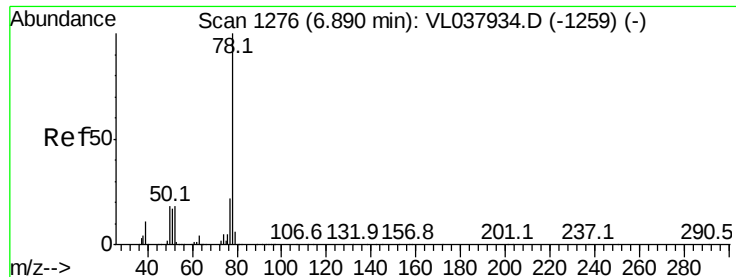
72 0.0 18.3 27.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

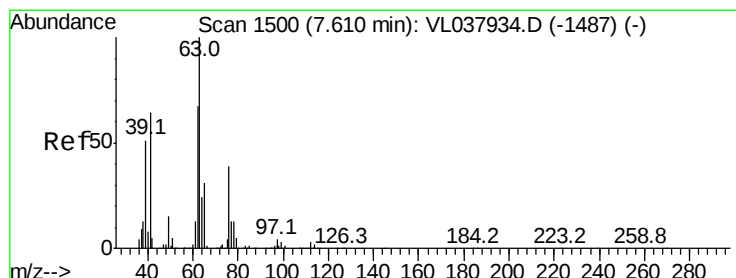
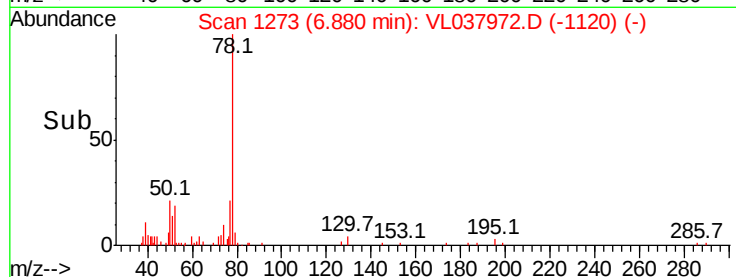
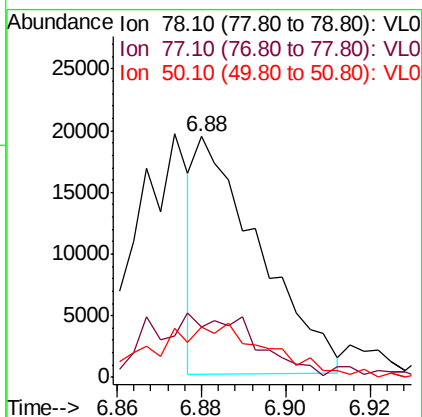
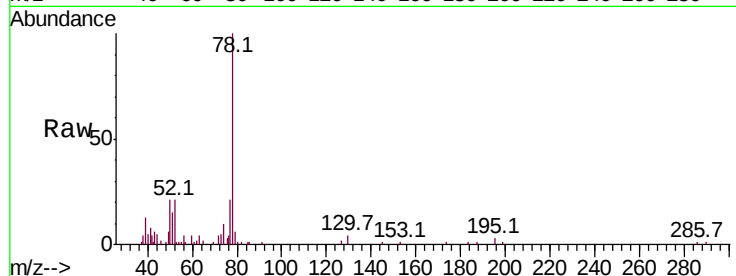
Ion 72.10 (71.80 to 72.80): VL0





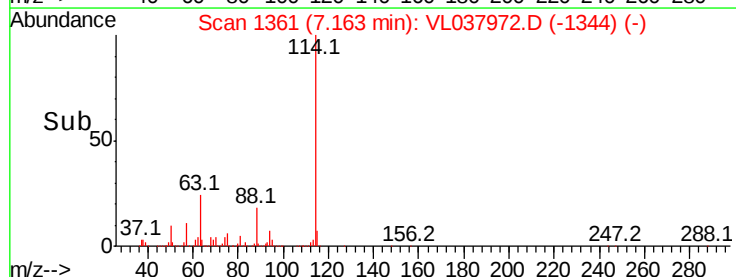
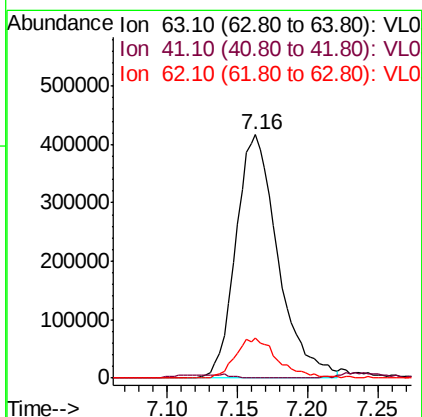
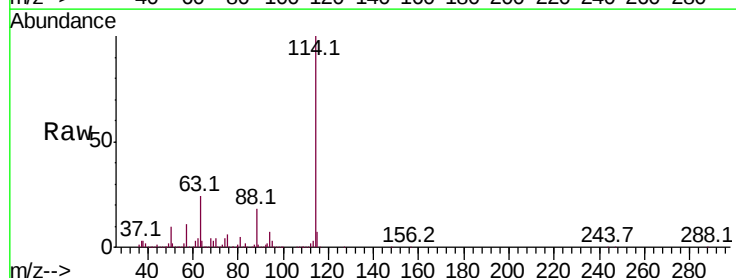
#36
Benzene
Concen: 0.066 ppbv
RT: 6.88
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 2 Nov 2021 17:50

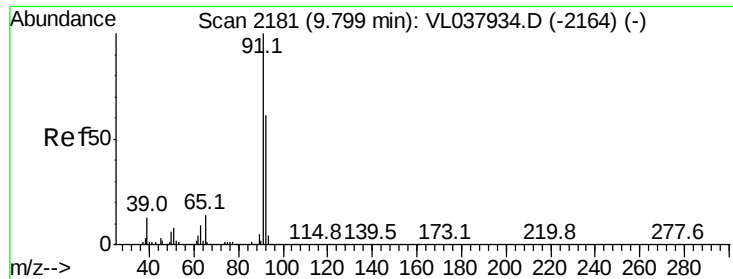
Tot Ion: 78 Resp: 20132
Ion Ratio Lower Upper
78 100
77 17.9 17.9 26.9#
50 19.8 14.4 21.6



#39
1,2-Dichloropropane
Concen: 7.545 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.45 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

Tgt Ion: 63 Resp: 871080
Ion Ratio Lower Upper
63 100
41 0.0 51.6 77.4#
62 16.3 53.5 80.3#





#53

Toluene

Concen: 0.116 ppbv

RT: 9.78 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampled:

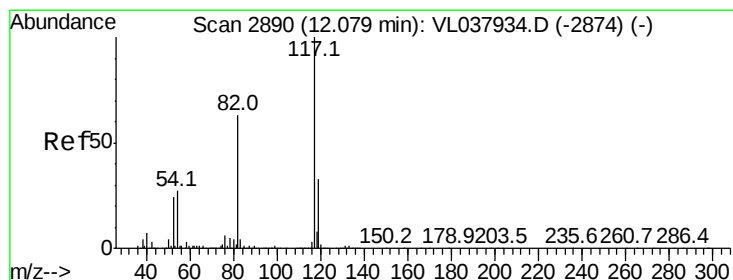
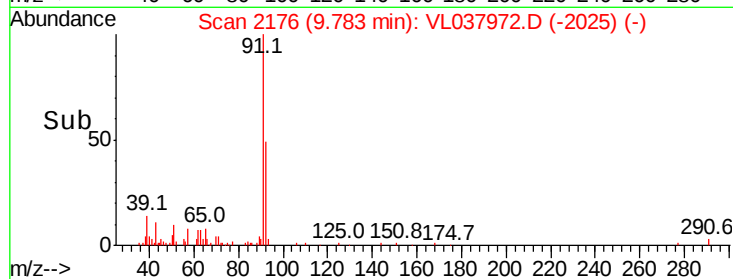
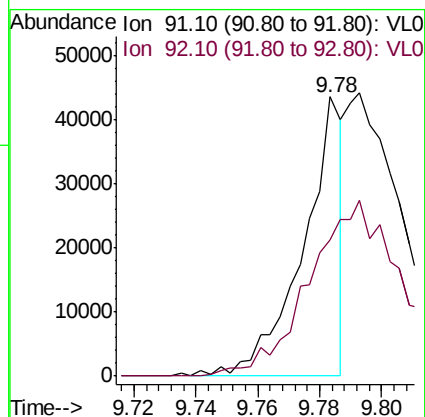
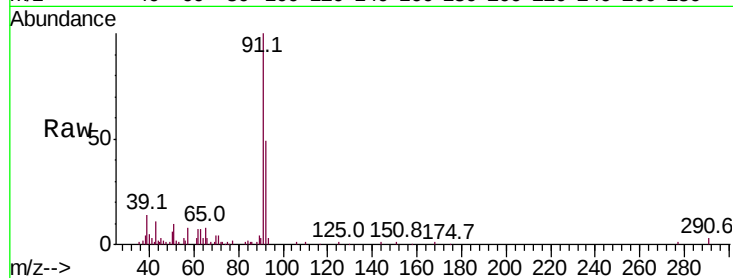
Acq: 2 Nov 2021 17:50

Tot Ion: 91 Resp: 38297

Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.01 min

Lab File: VL037972.D

Acq: 2 Nov 2021 17:50

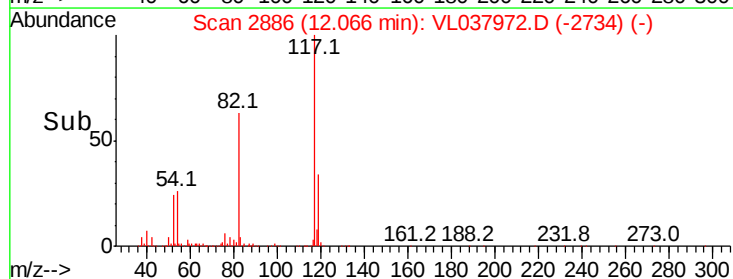
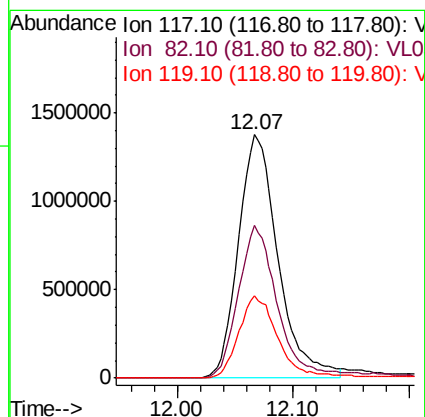
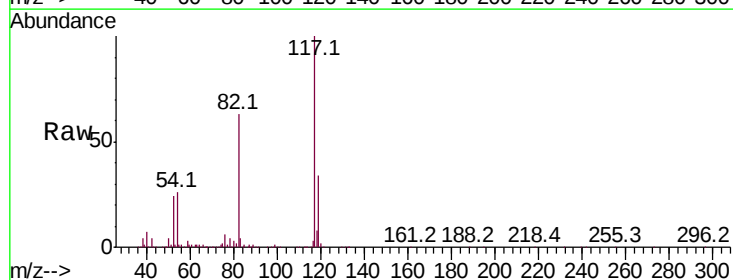
Tgt Ion: 117 Resp: 3269430

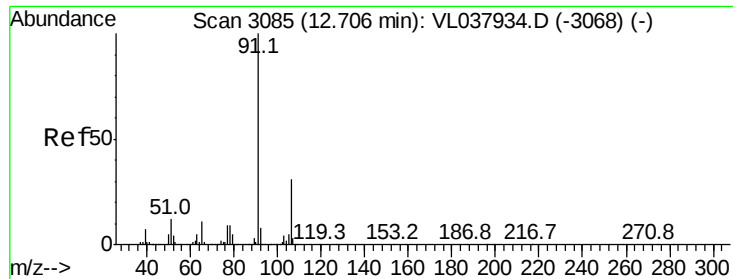
Ion Ratio Lower Upper

117 100

82 66.0 51.0 76.6

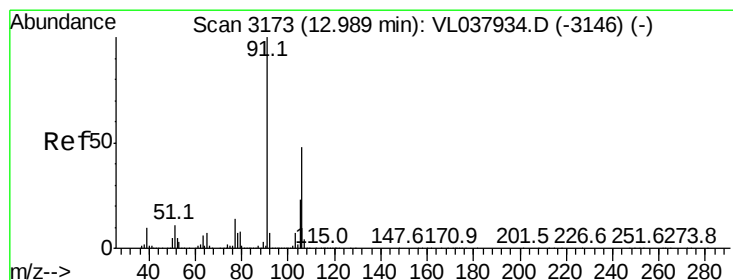
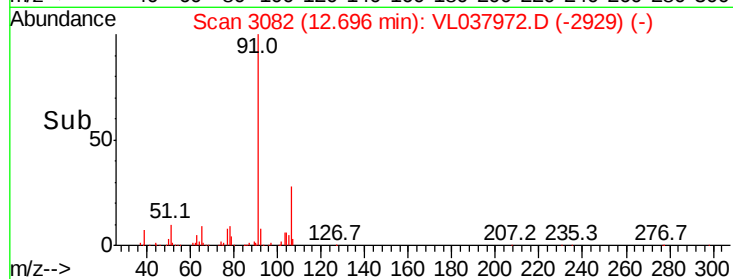
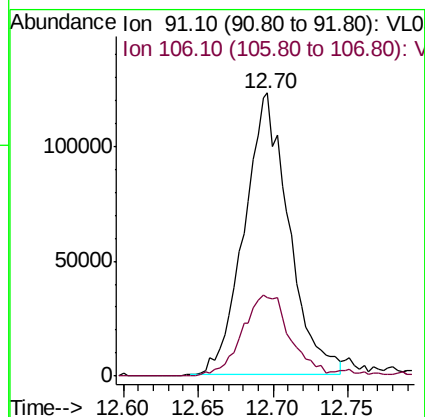
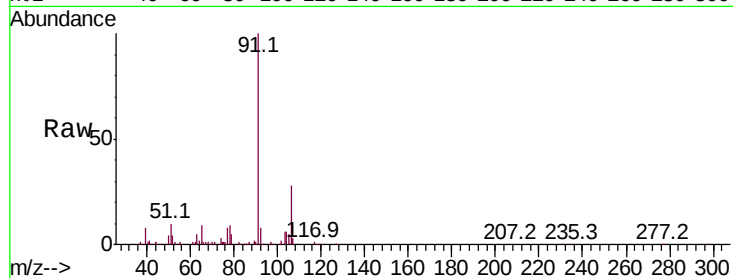
119 34.2 26.9 40.3





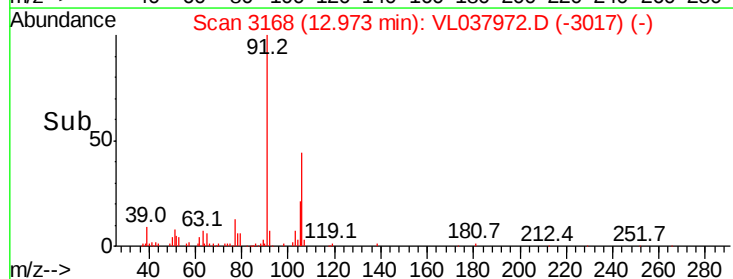
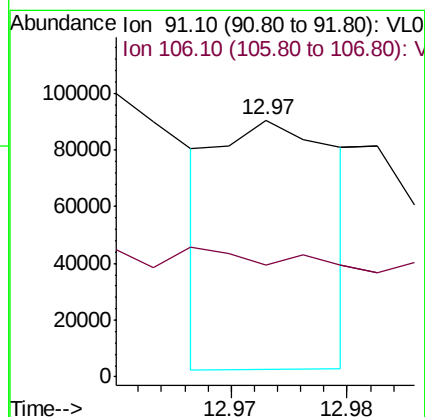
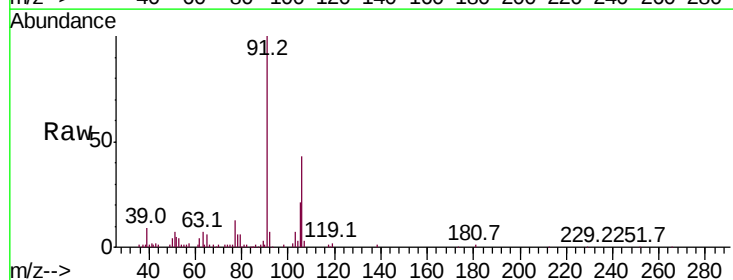
#58
Ethyl Benzene
Concen: 0.631 ppbv
RT: 12.70 min
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 2 Nov 2021 17:50

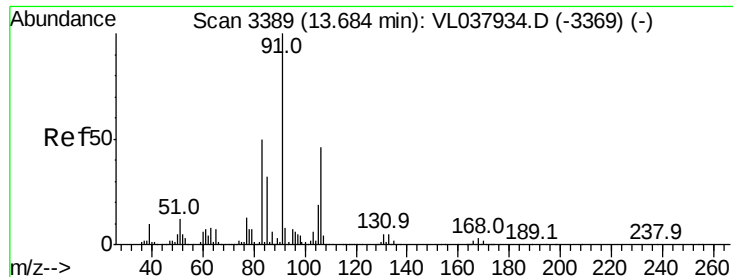
Tot Ion: 91 Resp: 252193
Ion Ratio Lower Upper
91 100
106 28.1 25.1 37.7



#59
m/p-Xylene
Concen: 0.177 ppbv
RT: 12.97 min Scan# 3168
Delta R.T. -0.02 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

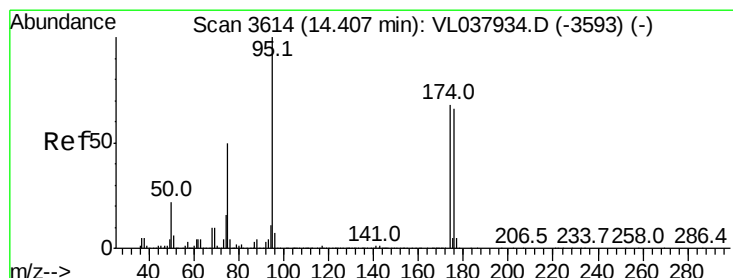
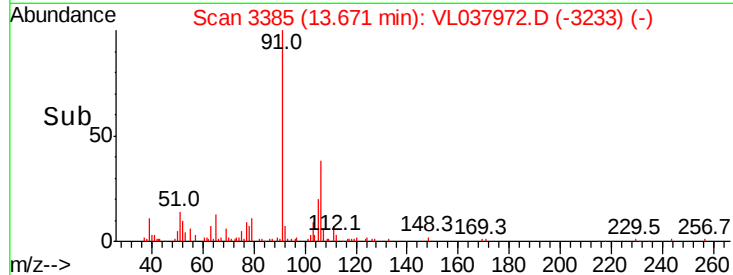
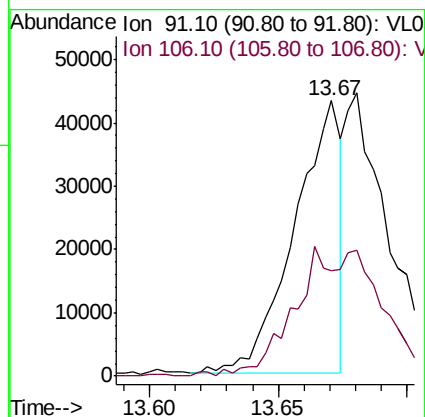
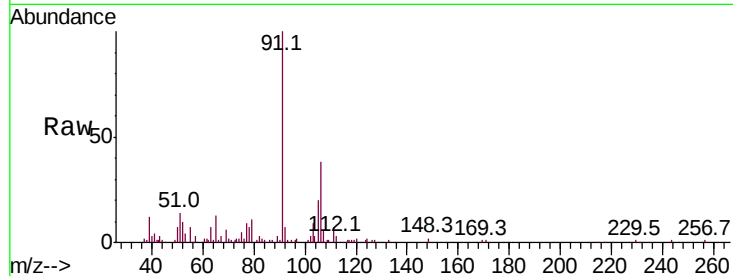
Tgt Ion: 91 Resp: 62743
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7#





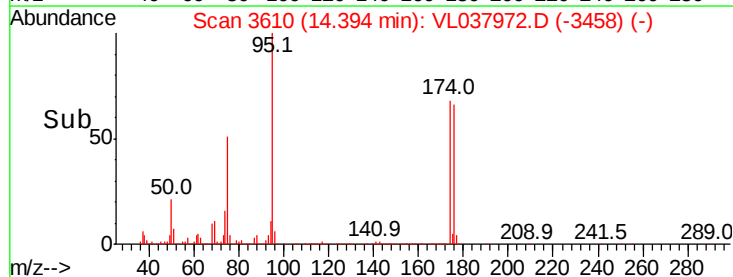
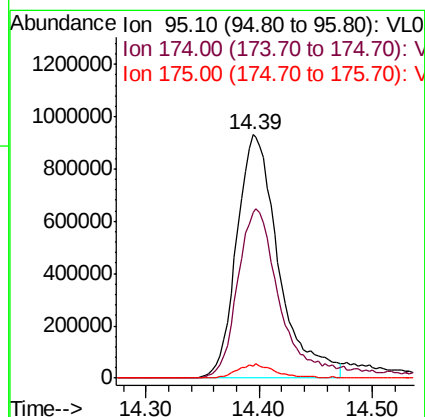
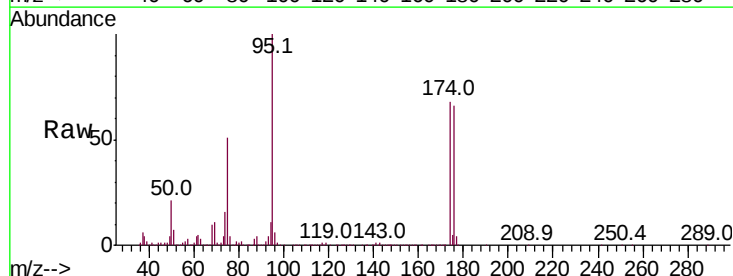
#60
o-Xylene
Concen: 0.161 ppbv
RT: 13.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Nov 2021 17:50

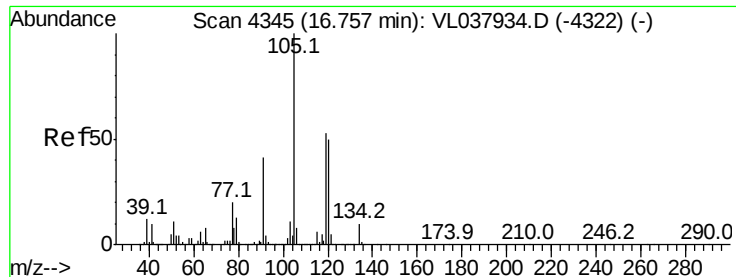
Tot Ion: 91 Resp: 53935
Ion Ratio Lower Upper
91 100
106 94.5 23.5 70.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.101 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.01 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

Tgt Ion: 95 Resp: 2400450
Ion Ratio Lower Upper
95 100
174 75.2 58.3 87.5
175 5.8 4.6 6.8





#74

1,2,4-Trimethylbenzene

Concen: 0.216 ppbv

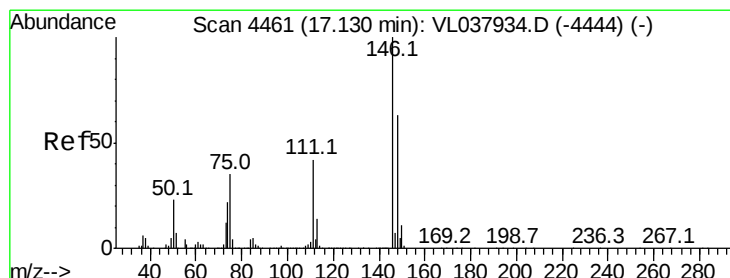
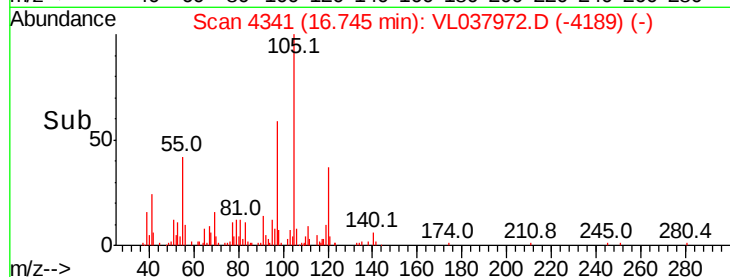
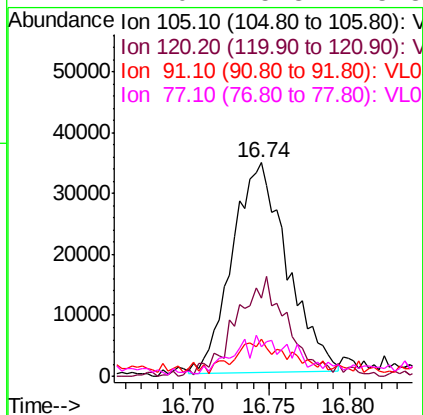
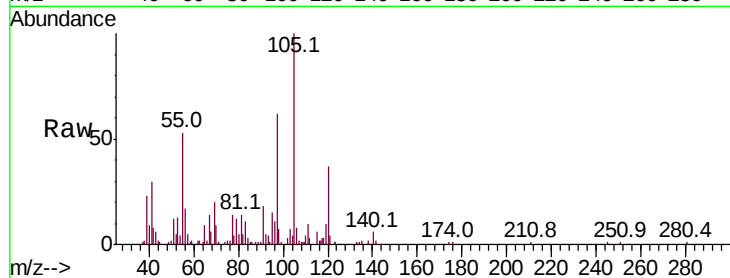
RT: 16.74

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 2 Nov 2021 17:50

Tot Ion:	105	Resp:	81232
Ion	Ratio	Lower	Upper
105	100		
120	32.6	40.0	60.0#
91	13.2	32.6	49.0#
77	12.0	15.8	23.8#



#76

1,4-Dichlorobenzene

Concen: 0.033 ppbv

RT: 17.11 min Scan# 4454

Delta R.T. -0.02 min

Lab File: VL037972.D

Acq: 2 Nov 2021 17:50

Tgt Ion:	146	Resp:	7565
Ion	Ratio	Lower	Upper
146	100		
111	433.5	22.7	68.1#
148	0.0	33.5	100.4#

