

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111021\
 Data File : VL038010.D
 Acq On : 10 Nov 2021 15:30
 Operator : SY/AP
 Sample : M4598-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 11 03:43:01 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	1491935	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4139607	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3757821	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2902180	10.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	117569	0.559 ppbv	99
3) Chlorodifluoromethane	2.99	51	9488434	34.163 ppbv	92
4) Chloromethane	3.14	50	20528	0.194 ppbv #	75
7) Chloroethane	3.55	64	2882	0.078 ppbv #	79
9) Propene	3.01	41	1811887	18.195 ppbv	89
10) Heptane	8.11	43	178424	0.770 ppbv	96
11) Trichlorofluoromethane	3.95	101	37093	0.177 ppbv	98
13) Ethanol	3.60	45	1506374	149.949 ppbv	89
15) Acetone	3.84	43	13047505	105.833 ppbv #	69
16) 1,3-Butadiene	3.31	39	1990784	20.493 ppbv #	18
17) tert-Butyl alcohol	4.29	59	752449	5.870 ppbv	97
19) Isopropyl Alcohol	3.97	45	1072267	13.601 ppbv #	85
20) Methylene Chloride	4.34	84	216536	3.199 ppbv	94
21) Allyl Chloride	4.35	41	12993	0.114 ppbv #	12
22) trans-1,2-Dichloroethene	4.88	96	985142	13.202 ppbv	96
23) Vinyl Acetate	5.06	43	122692	0.661 ppbv #	1
24) 1,1-Dichloroethane	4.88	63	528396	3.445 ppbv #	1
25) Ethyl Acetate	5.68	43	361055	0.986 ppbv #	85
26) Hexane	5.68	57	423235	2.440 ppbv #	47
27) Carbon Disulfide	4.55	76	1857811	10.847 ppbv	98
29) Chloroform	5.75	83	106577	0.412 ppbv	97
30) Cyclohexane	7.12	84	37370	0.252 ppbv #	1
31) cis-1,2-Dichloroethene	5.55	61	267904	1.693 ppbv	90
32) 1,1,1-Trichloroethane	6.51	97	18001	0.071 ppbv #	42
34) 2-Butanone	5.23	43	9311992	60.706 ppbv	95
36) Benzene	6.89	78	348970	1.035 ppbv	93
38) Trichloroethene	7.83	130	2592551	18.529 ppbv	94
39) 1,2-Dichloropropane	7.22	63	14097	0.111 ppbv #	50
40) 1,4-Dioxane	7.83	88	12229	0.366 ppbv #	1
41) Tetrahydrofuran	6.01	42	4987977	66.458 ppbv #	39
44) 2,2,4-Trimethylpentane	7.86	57	196219	0.342 ppbv #	62
50) 4-Methyl-2-Pentanone	8.74	43	76074	0.377 ppbv #	34
51) 2-Hexanone	10.12	43	864921	10.183 ppbv #	98
52) Tetrachloroethene	11.22	164	5567774	43.537 ppbv	96
53) Toluene	9.80	91	4605223	12.742 ppbv	100
58) Ethyl Benzene	12.70	91	1192205	2.594 ppbv	98
59) m/p-Xylene	12.95	91	3367420	8.244 ppbv	97
60) o-Xylene	13.68	91	1334687	3.466 ppbv	97
61) Styrene	13.51	104	73165	0.414 ppbv #	51
62) Isopropylbenzene	14.65	105	37246	0.068 ppbv #	58
64) n-propylbenzene	15.54	120	19664	0.141 ppbv #	1

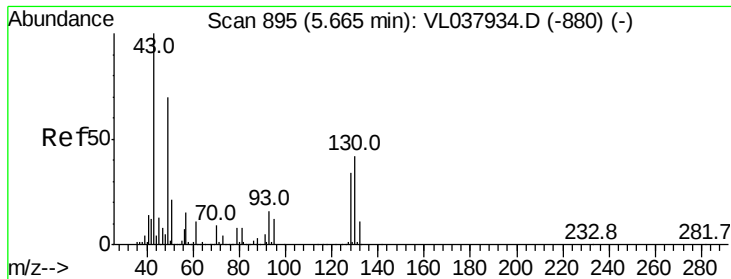
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111021\
 Data File : VL038010.D
 Acq On : 10 Nov 2021 15:30
 Operator : SY/AP
 Sample : M4598-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 11 03:43:01 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)
65) tert-Butylbenzene	16.74	119	52903	0.110	ppbv #	21
67) sec-Butylbenzene	17.28	105	30552	0.046	ppbv #	80
69) p-Isopropyltoluene	17.64	119	27761	0.052	ppbv #	64
71) 2-Chlorotoluene	15.30	91	428519	1.122	ppbv #	42
72) 4-Ethyltoluene	15.82	105	166148	0.377	ppbv #	55
73) 1,3,5-Trimethylbenzene	15.98	105	174157	0.422	ppbv #	94
74) 1,2,4-Trimethylbenzene	16.75	105	871215	2.013	ppbv #	72
79) Naphthalene	22.17	128	36400	0.146	ppbv #	96
80) Naphthalene,2-methyl-	24.96	142	4767	0.098	ppbv #	46

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 10 Nov 2021 15:30

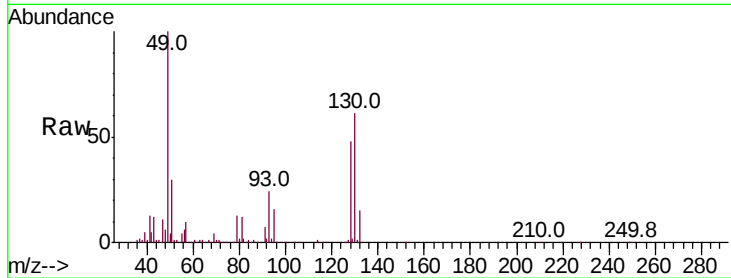
Tot Ion: 49 Resp: 1491935

Ion Ratio Lower Upper

49 100

128 51.3 27.0 81.0

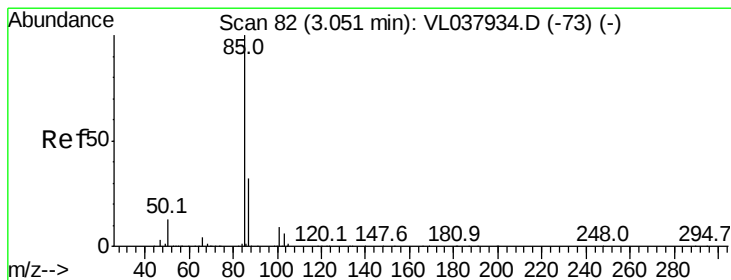
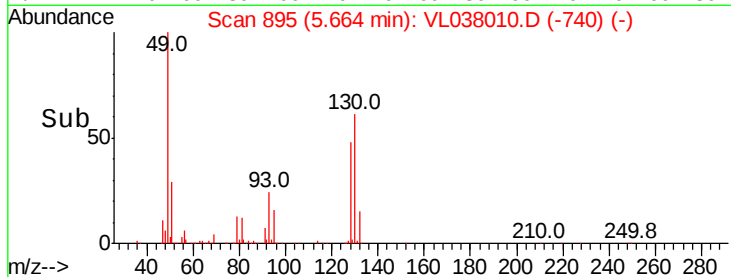
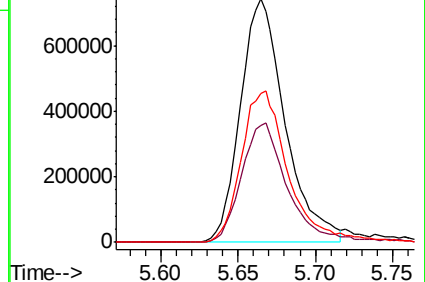
130 66.3 33.4 100.2



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



#2

Dichlorodifluoromethane

Concen: 0.559 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL038010.D

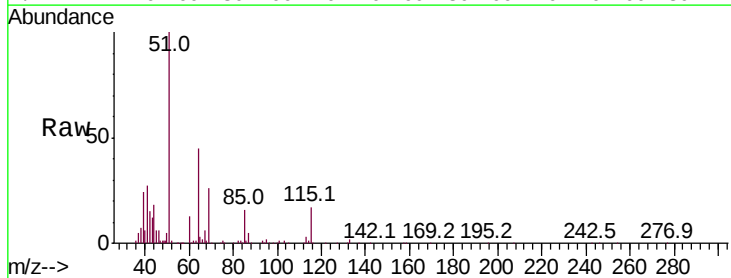
Acq: 10 Nov 2021 15:30

Tgt Ion: 85 Resp: 117569

Ion Ratio Lower Upper

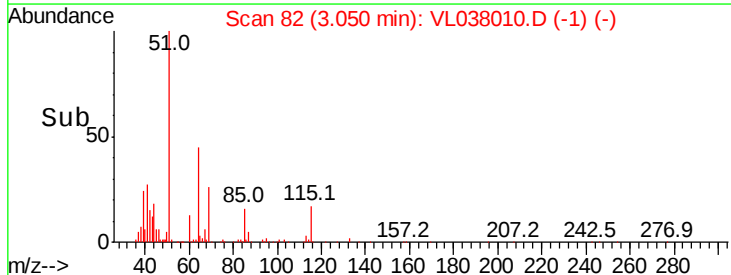
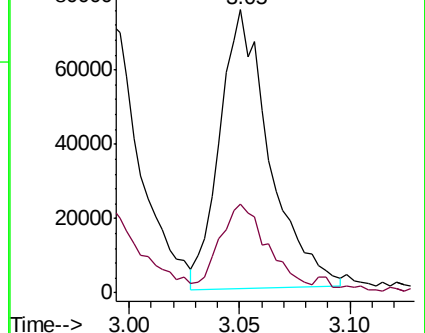
85 100

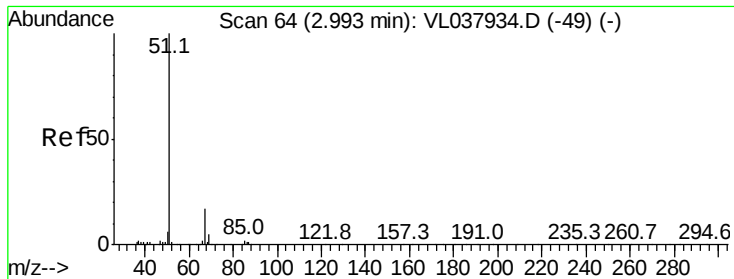
87 31.1 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 34.163 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

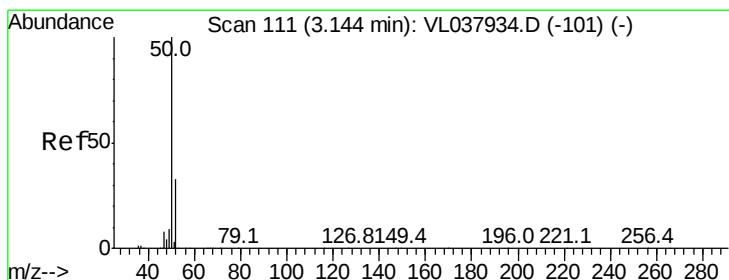
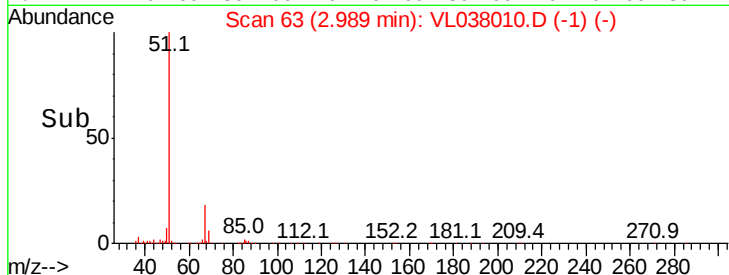
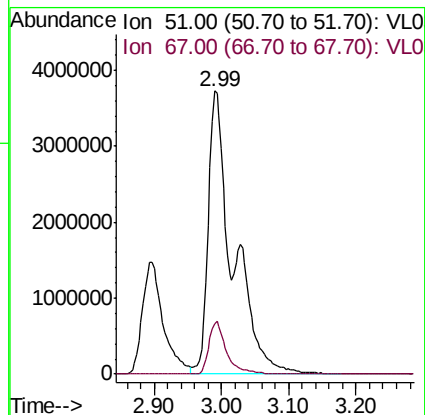
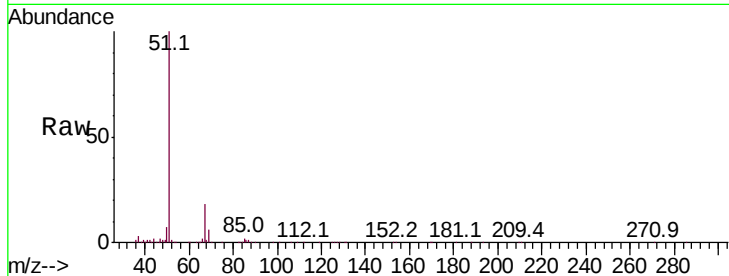
Acq: 10 Nov 2021 15:30

Tot Ion: 51 Resp: 9488434

Ion Ratio Lower Upper

51 100

67 13.4 13.4 20.0



#4

Chloromethane

Concen: 0.194 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL038010.D

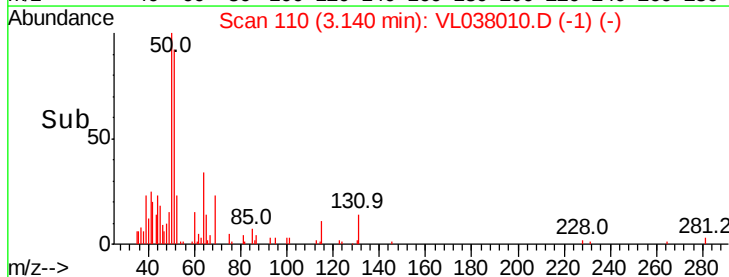
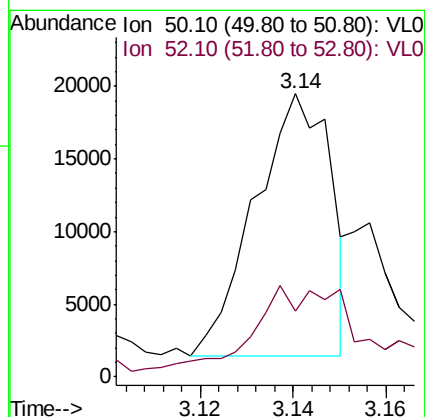
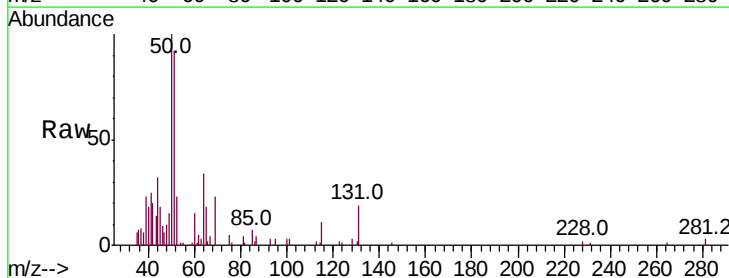
Acq: 10 Nov 2021 15:30

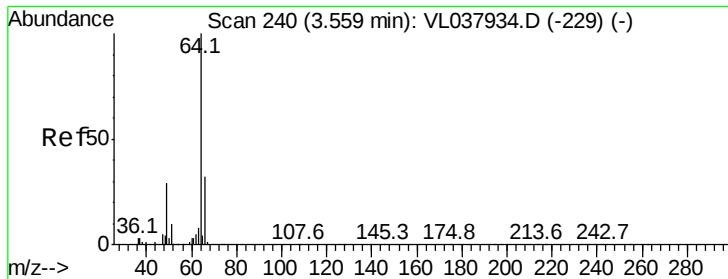
Tgt Ion: 50 Resp: 20528

Ion Ratio Lower Upper

50 100

52 18.8 26.3 39.5#





#7

Chloroethane

Concen: 0.078 ppbv

RT: 3.55 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

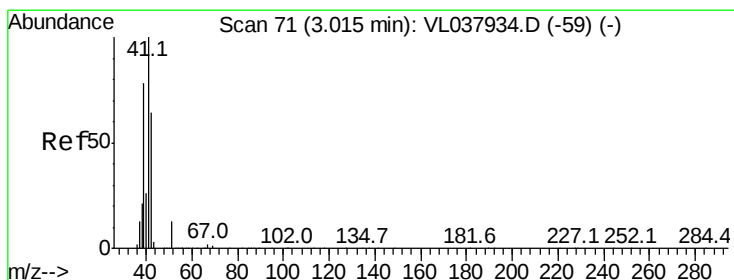
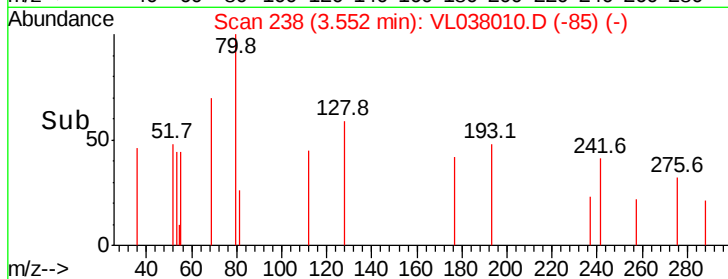
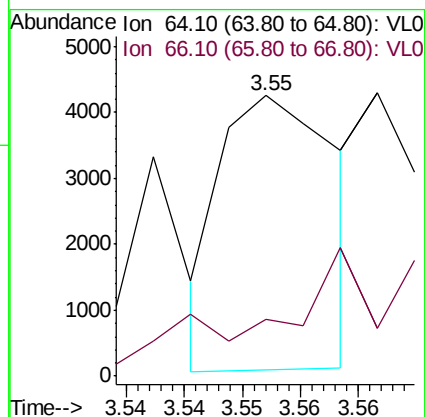
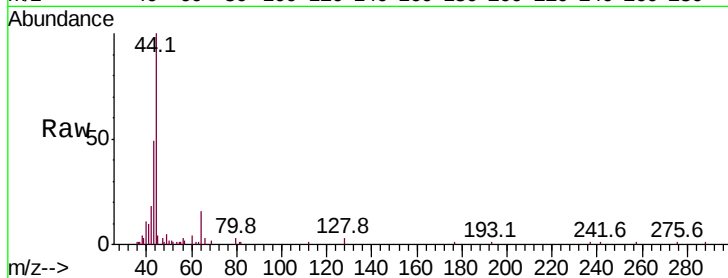
Acq: 10 Nov 2021 15:30

Tot Ion: 64 Resp: 2882

Ion Ratio Lower Upper

64 100

66 20.1 25.5 38.3#



#9

Propene

Concen: 18.195 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL038010.D

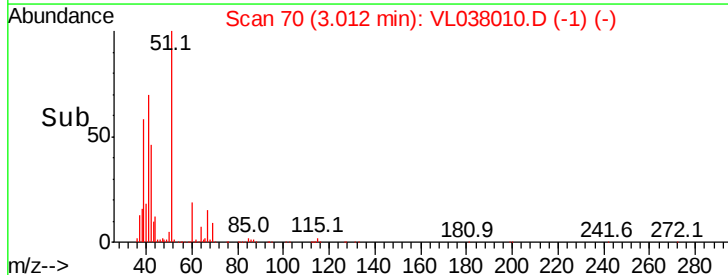
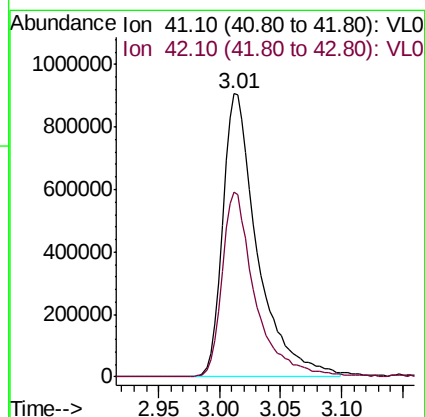
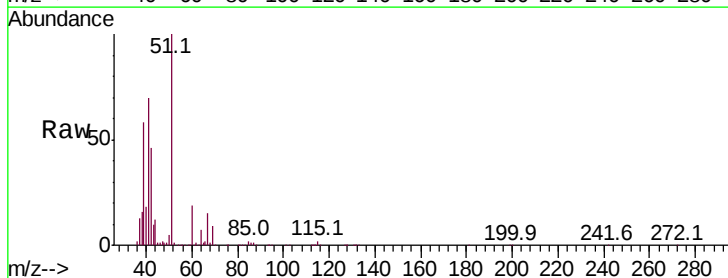
Acq: 10 Nov 2021 15:30

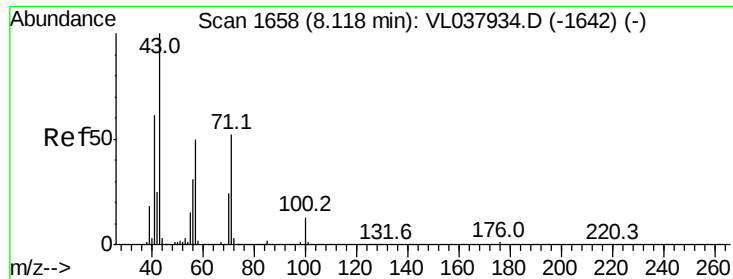
Tgt Ion: 41 Resp: 1811887

Ion Ratio Lower Upper

41 100

42 62.6 57.6 86.4





#10

Heptane

Concen: 0.770 ppbv

RT: 8.11 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

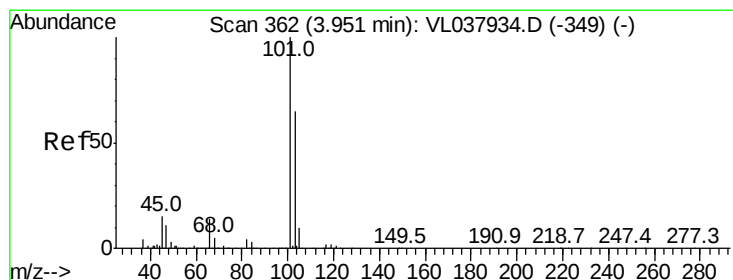
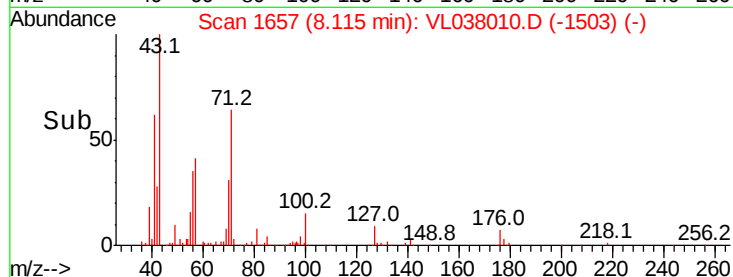
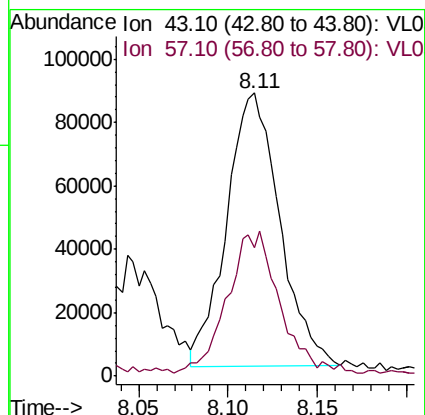
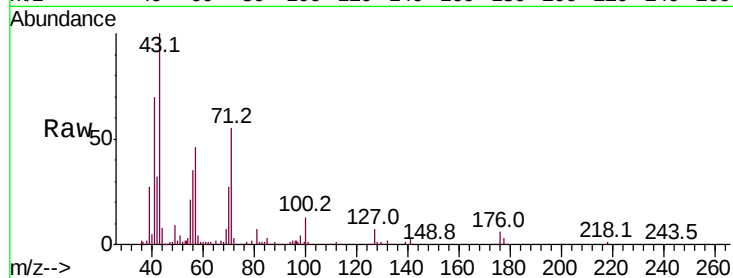
Acq: 10 Nov 2021 15:30

Tot Ion: 43 Resp: 178424

Ion Ratio Lower Upper

43 100

57 52.7 39.8 59.8



#11

Trichlorofluoromethane

Concen: 0.177 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.00 min

Lab File: VL038010.D

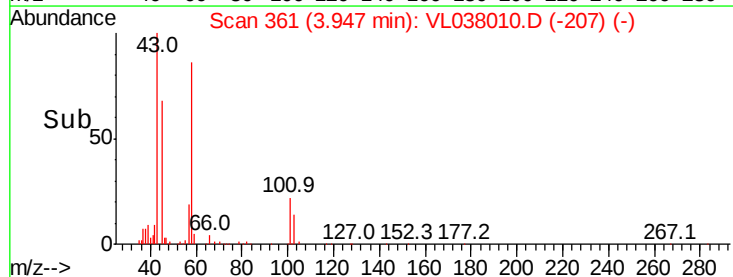
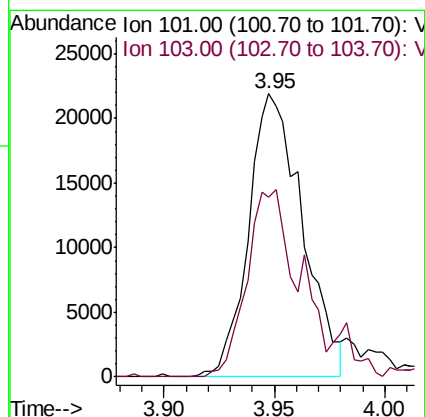
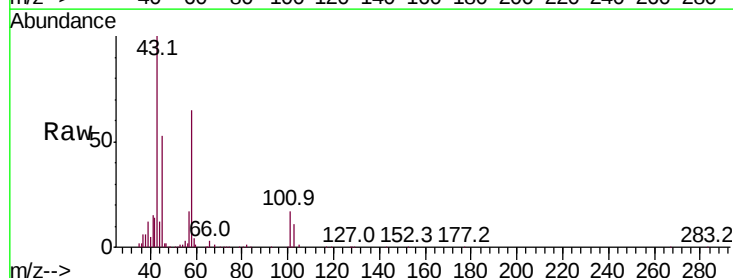
Acq: 10 Nov 2021 15:30

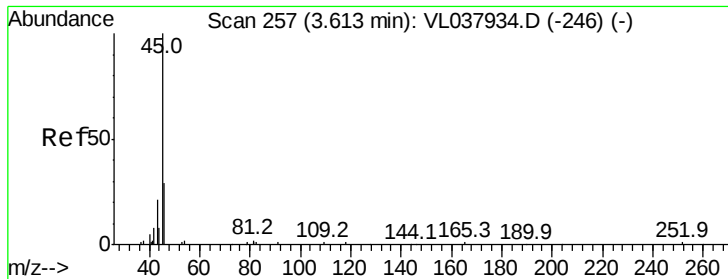
Tgt Ion:101 Resp: 37093

Ion Ratio Lower Upper

101 100

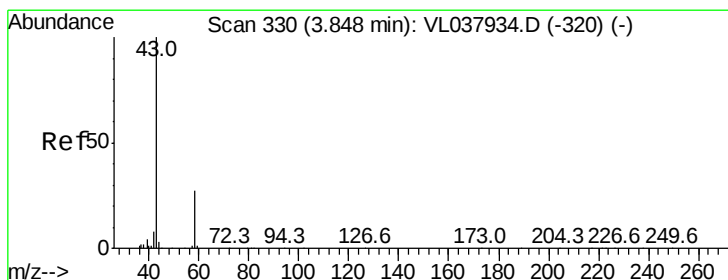
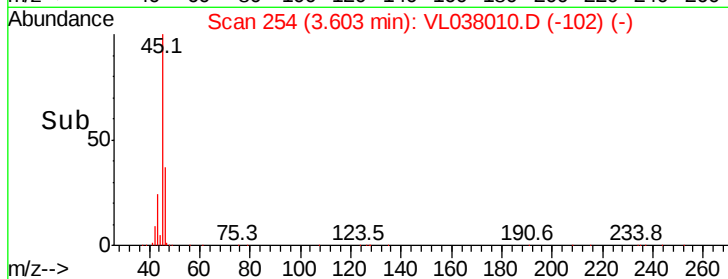
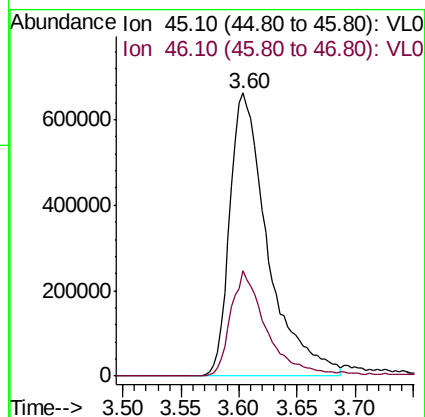
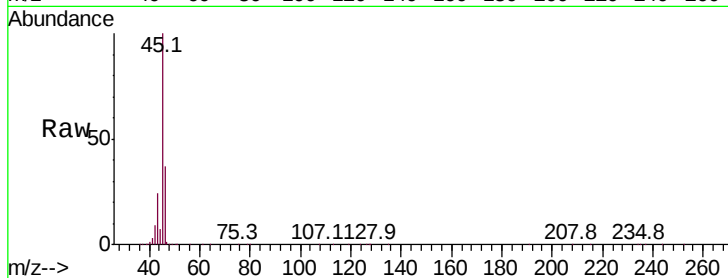
103 63.6 52.0 78.0





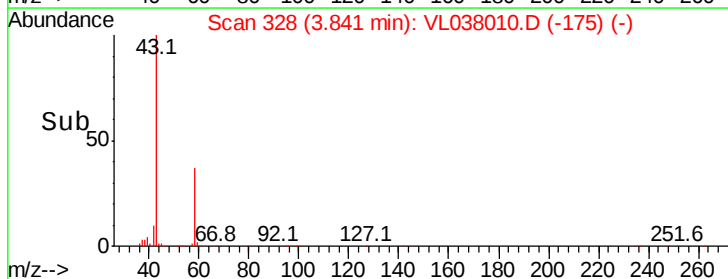
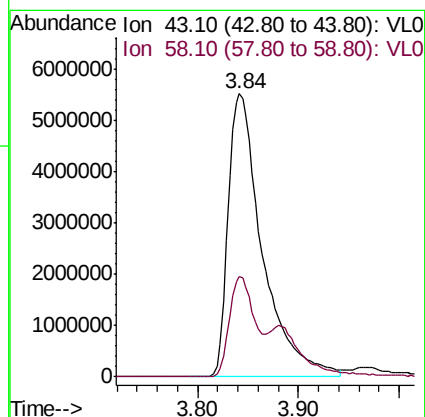
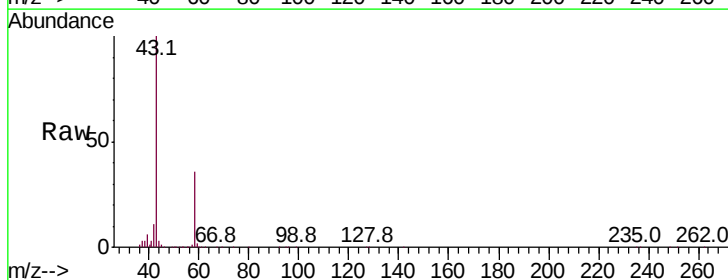
#13
 Ethanol
 Concen: 149.949 ppbv
 RT: 3.60
 Instrument :
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 10 Nov 2021 15:30

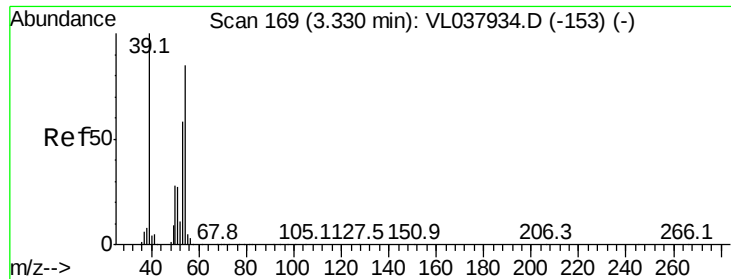
Tot Ion: 45 Resp: 1506374
 Ion Ratio Lower Upper
 45 100
 46 36.8 17.4 69.8



#15
 Acetone
 Concen: 105.833 ppbv
 RT: 3.84 min Scan# 328
 Delta R.T. -0.01 min
 Lab File: VL038010.D
 Acq: 10 Nov 2021 15:30

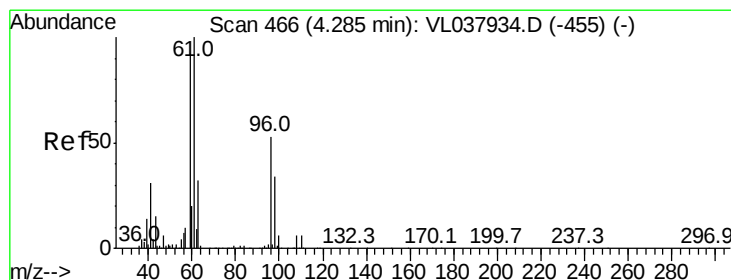
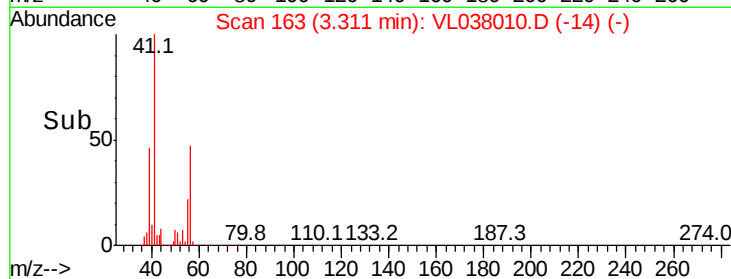
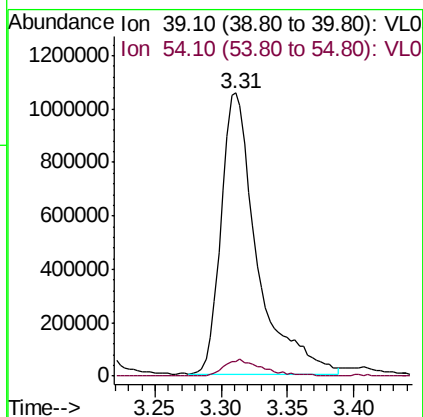
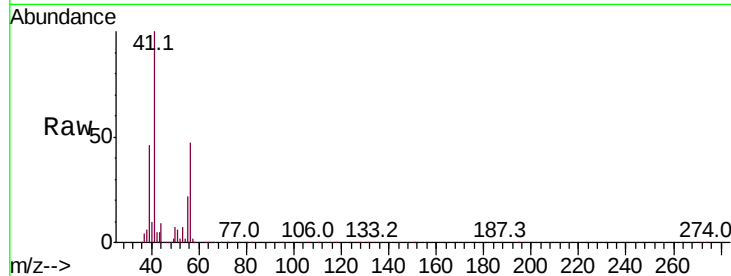
Tgt Ion: 43 Resp: 13047505
 Ion Ratio Lower Upper
 43 100
 58 45.7 23.3 34.9#





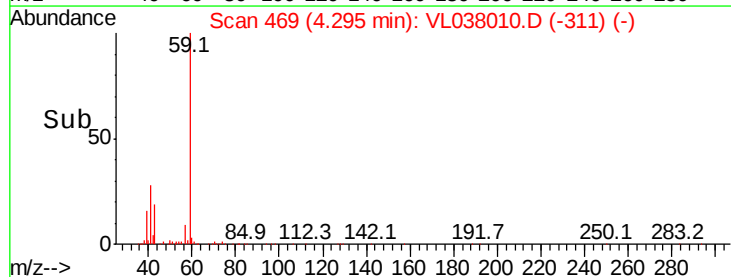
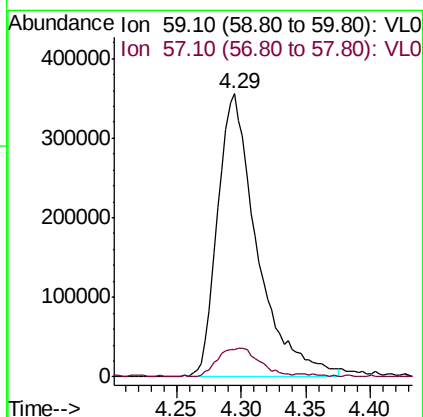
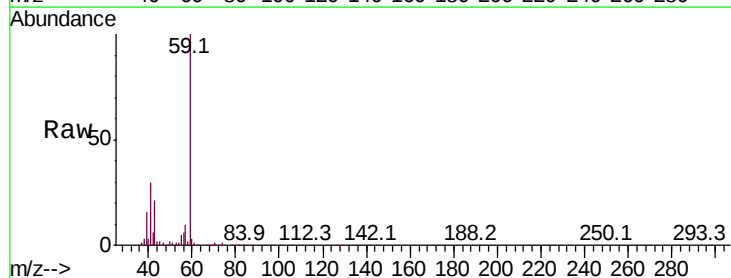
#16
 1,3-Butadiene
 Concen: 20.493 ppbv
 RT: 3.31
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 10 Nov 2021 15:30

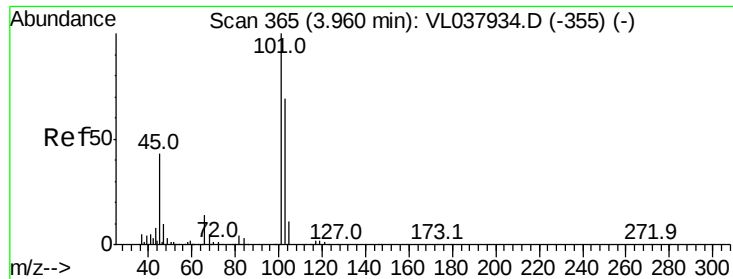
Tot Ion: 39 Resp: 1990784
 Ion Ratio Lower Upper
 39 100
 54 6.5 62.6 93.8#



#17
 tert-Butyl alcohol
 Concen: 5.870 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. 0.01 min
 Lab File: VL038010.D
 Acq: 10 Nov 2021 15:30

Tgt Ion: 59 Resp: 752449
 Ion Ratio Lower Upper
 59 100
 57 12.2 8.9 13.3





#19

Isopropyl Alcohol

Concen: 13.601 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

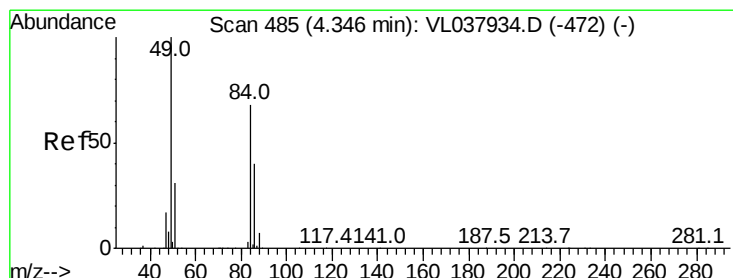
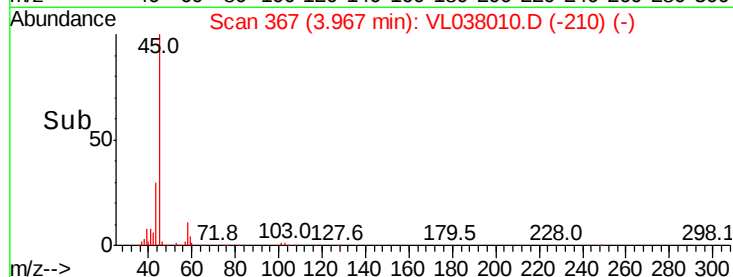
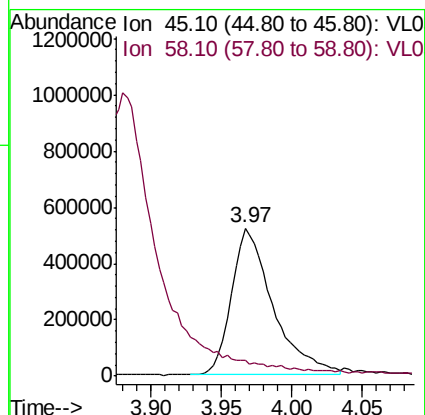
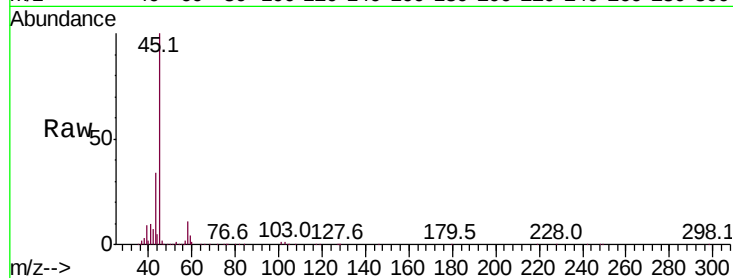
Acq: 10 Nov 2021 15:30

Tot Ion: 45 Resp: 1072267

Ion Ratio Lower Upper

45 100

58 0.0 4.0 6.0#



#20

Methylene Chloride

Concen: 3.199 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL038010.D

Acq: 10 Nov 2021 15:30

Tgt Ion: 84 Resp: 216536

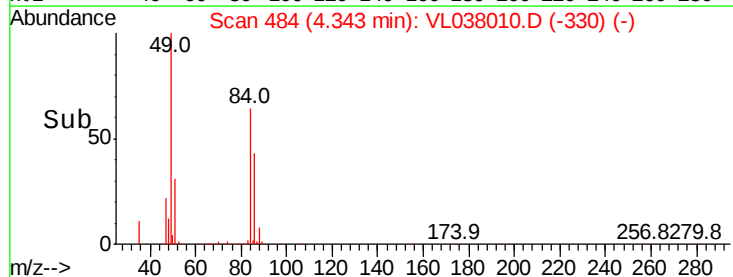
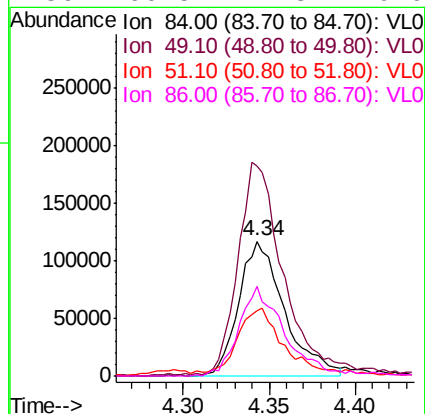
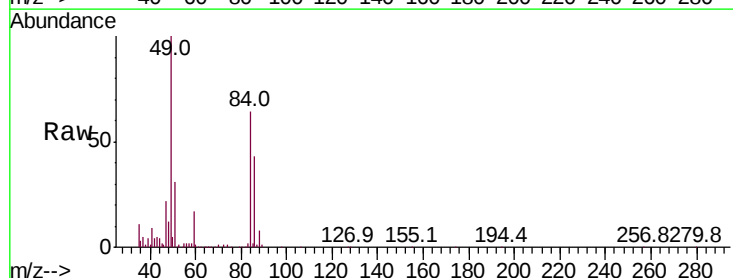
Ion Ratio Lower Upper

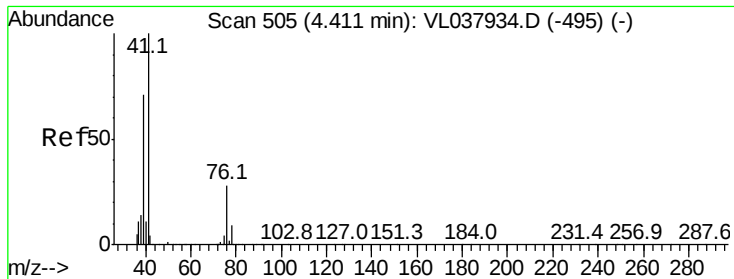
84 100

49 154.0 117.5 176.3

51 46.0 35.9 53.9

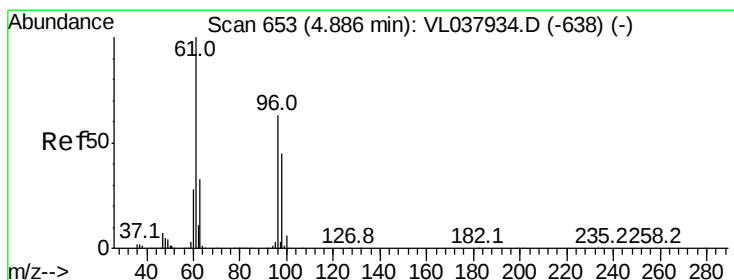
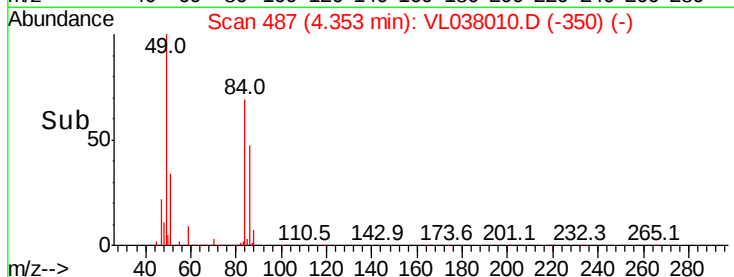
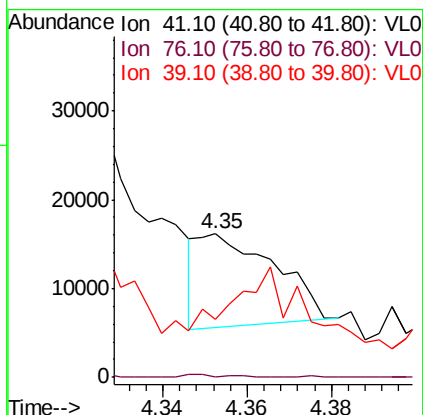
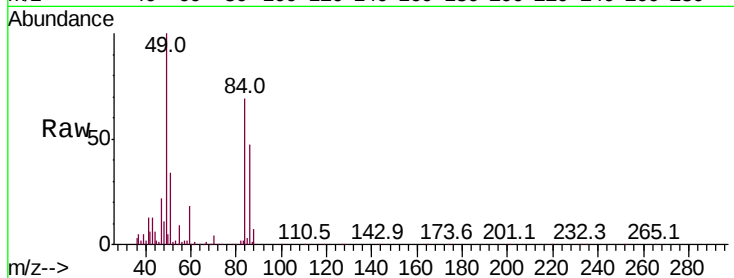
86 66.5 47.3 70.9





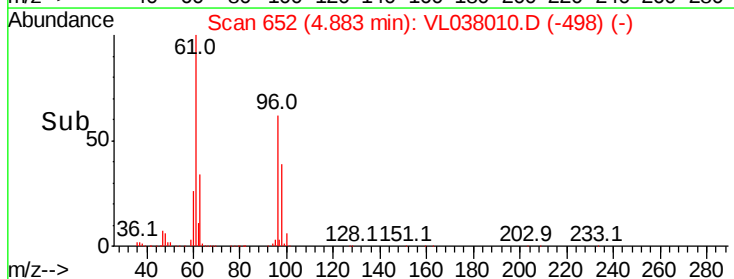
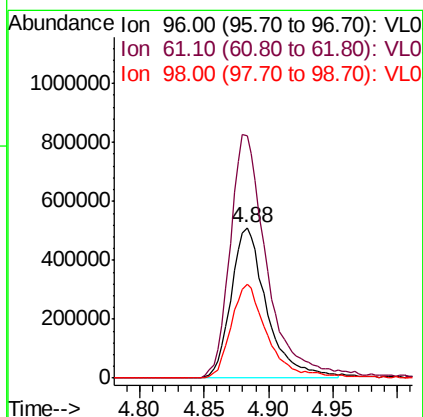
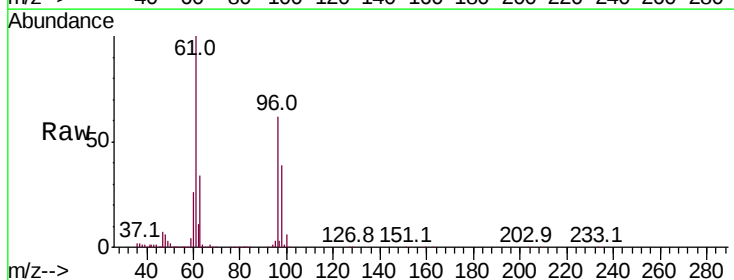
#21
Allvl Chloride
Concen: 0.114 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 10 Nov 2021 15:30

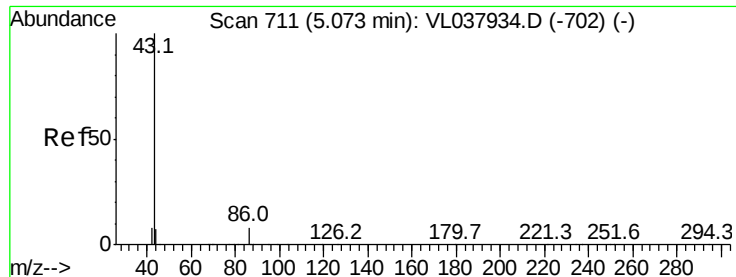
Tot Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.6	35.4#
39	160.6	59.7	89.5#



#22
trans-1,2-Dichloroethene
Concen: 13.202 ppbv
RT: 4.88 min Scan# 652
Delta R.T. -0.00 min
Lab File: VL038010.D
Acq: 10 Nov 2021 15:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.3	127.8	191.6
98	62.4	56.9	85.3





#23

Vinyl Acetate

Concen: 0.661 ppbv

RT: 5.06 Instrument:

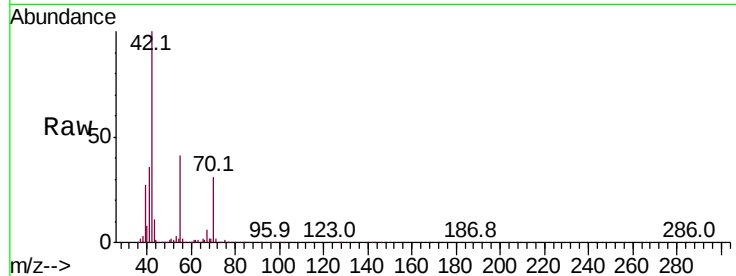
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 10 Nov 2021 15:30

Tot Ion: 43 Resp: 122692

Ion	Ratio	Lower	Upper
43	100		
86	1.7	5.5	8.3#
42	942.3	7.4	11.2#
44	0.0	4.7	7.1#

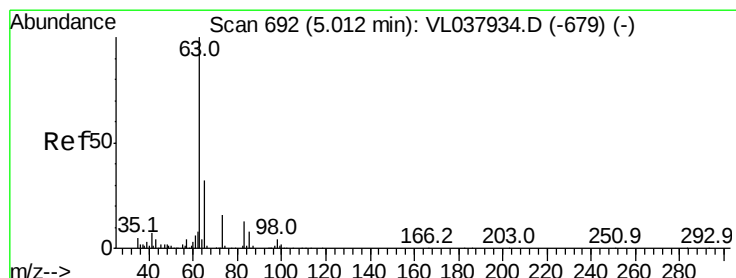
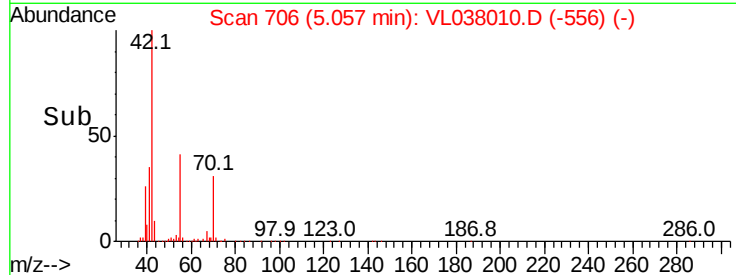
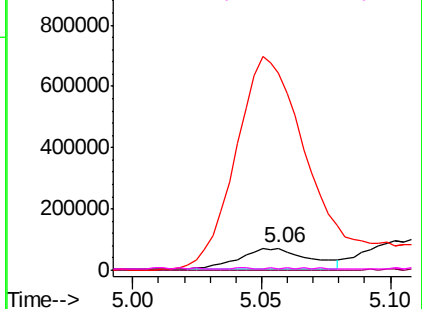


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#24

1,1-Dichloroethane

Concen: 3.445 ppbv

RT: 4.88 min Scan# 652

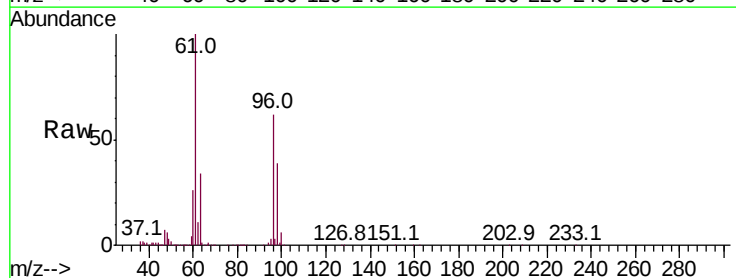
Delta R.T. -0.13 min

Lab File: VL038010.D

Acq: 10 Nov 2021 15:30

Tgt Ion: 63 Resp: 528396

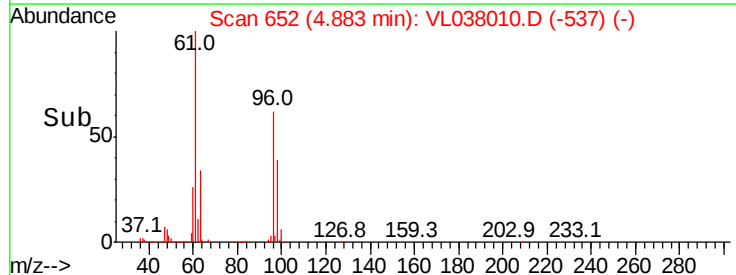
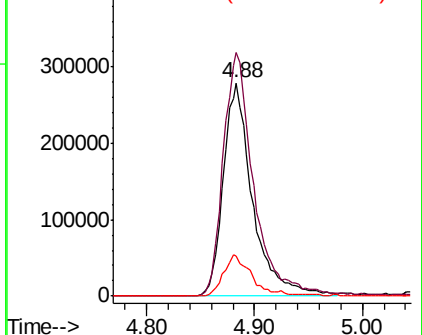
Ion	Ratio	Lower	Upper
63	100		
98	114.1	2.3	6.9#
100	18.9	1.2	3.6#

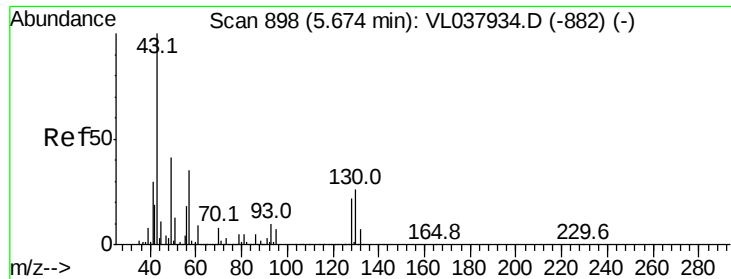


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

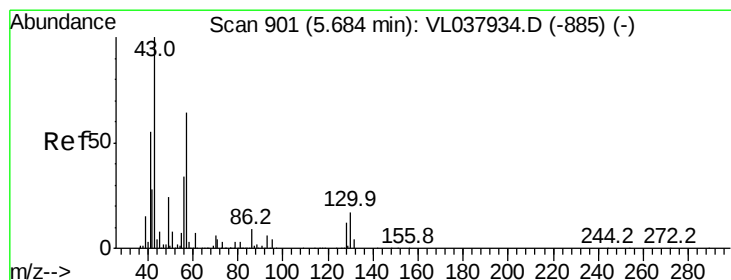
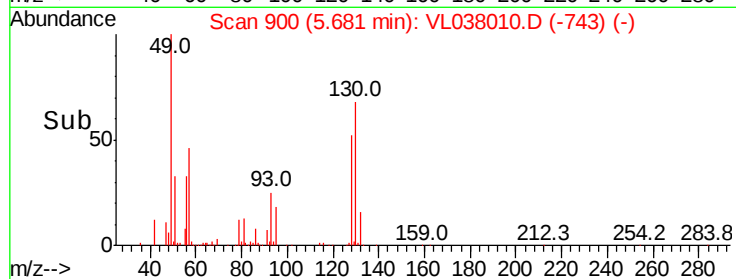
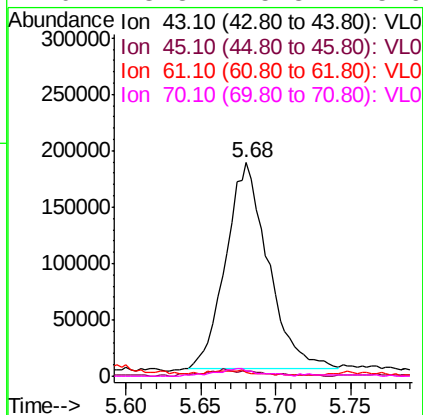
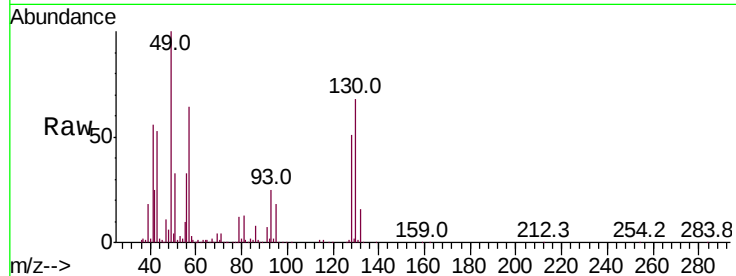
Ion 100.00 (99.70 to 100.70): VL0





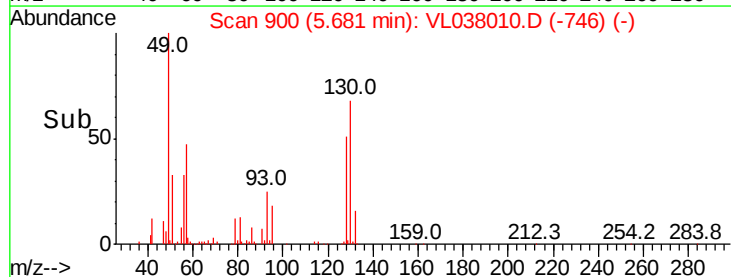
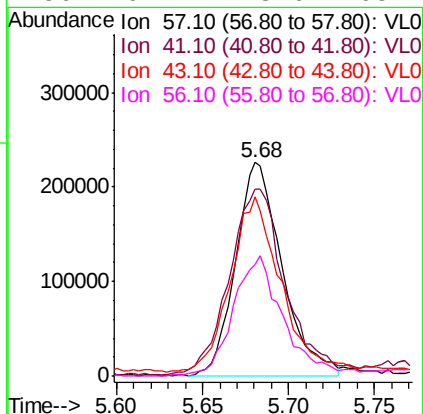
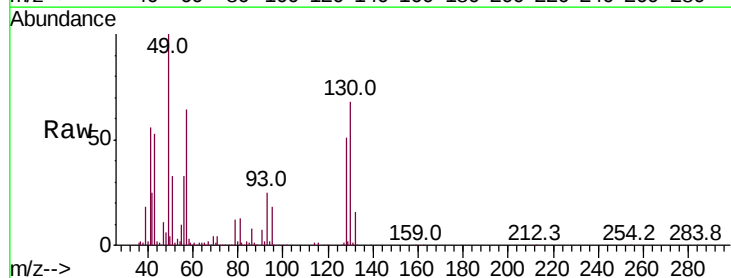
#25
Ethyl Acetate
Concen: 0.986 ppbv
RT: 5.68 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 10 Nov 2021 15:30

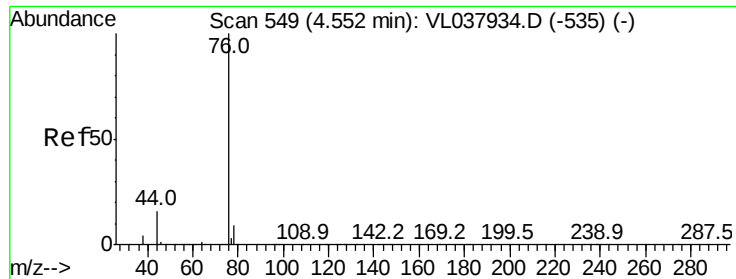
Tot Ion:	43	Resp:	361055
Ion	Ratio	Lower	Upper
43	100		
45	4.6	8.1	12.1#
61	3.3	8.1	12.1#
70	3.8	5.8	8.6#



#26
Hexane
Concen: 2.440 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL038010.D
Acq: 10 Nov 2021 15:30

Tgt Ion:	57	Resp:	423235
Ion	Ratio	Lower	Upper
57	100		
41	105.5	71.0	106.6
43	91.2	173.0	259.6#
56	61.2	43.6	65.4





#27

Carbon Disulfide

Concen: 10.847 ppbv

RT: 4.55 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 10 Nov 2021 15:30

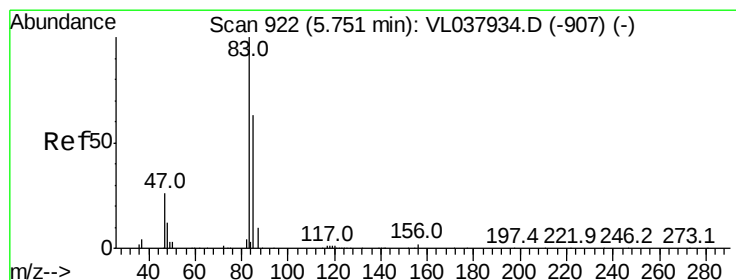
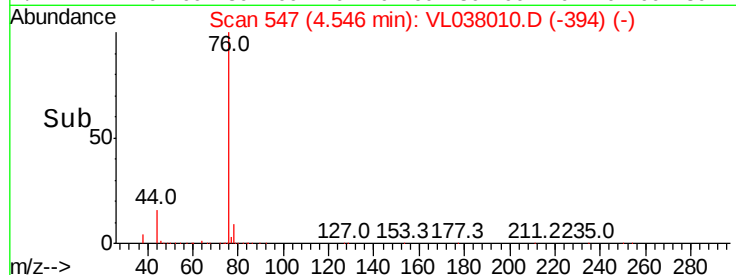
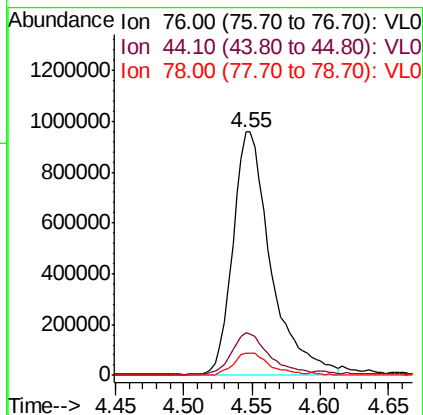
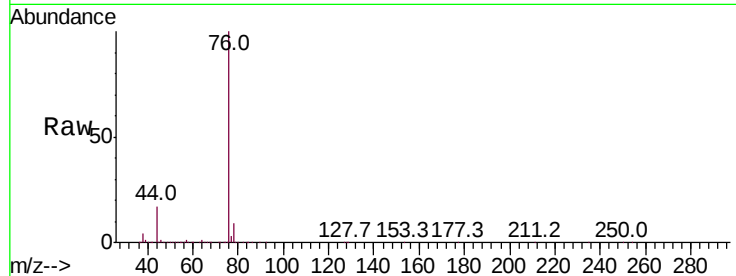
Tot Ion: 76 Resp: 1857811

Ion Ratio Lower Upper

76 100

44 17.2 13.2 19.8

78 9.5 7.2 10.8



#29

Chloroform

Concen: 0.412 ppbv

RT: 5.75 min Scan# 921

Delta R.T. -0.00 min

Lab File: VL038010.D

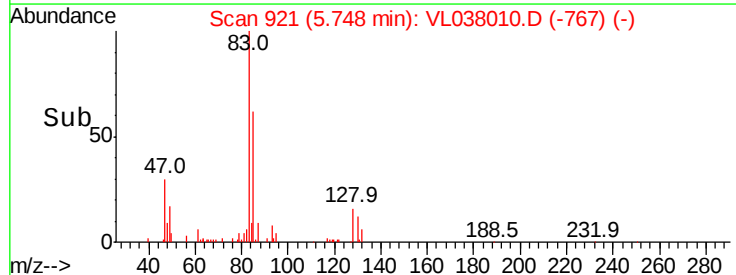
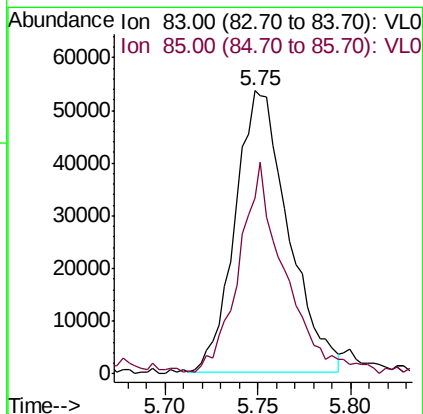
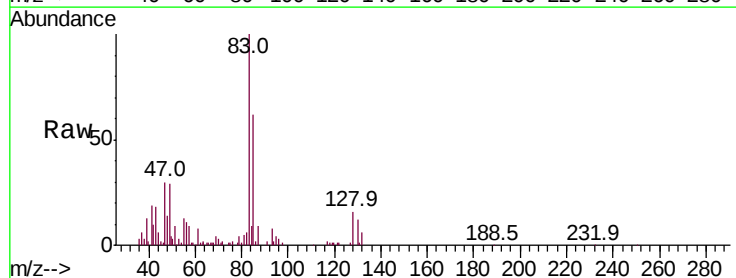
Acq: 10 Nov 2021 15:30

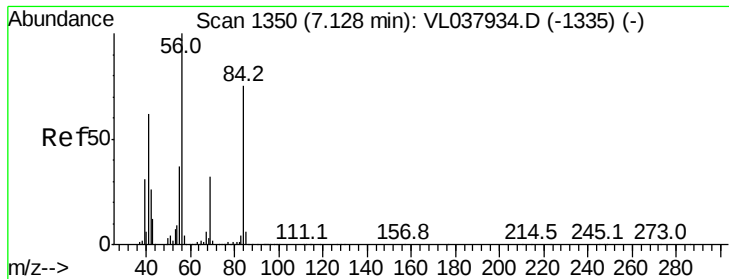
Tgt Ion: 83 Resp: 106577

Ion Ratio Lower Upper

83 100

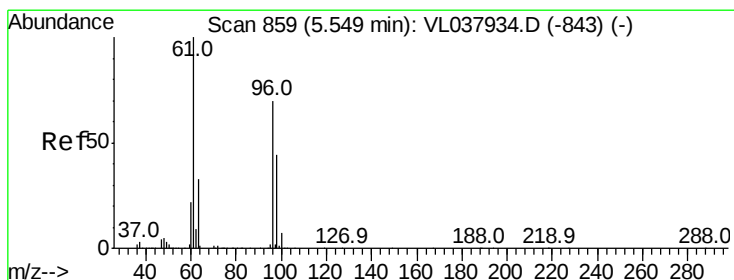
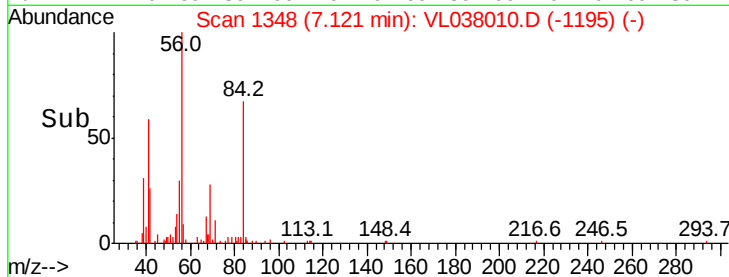
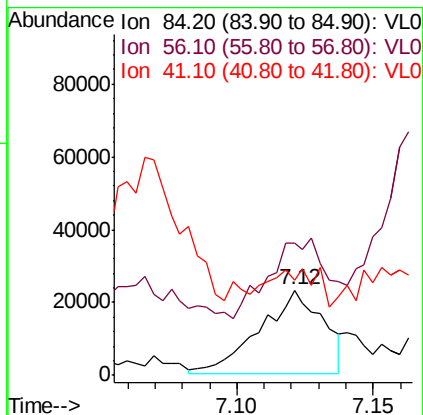
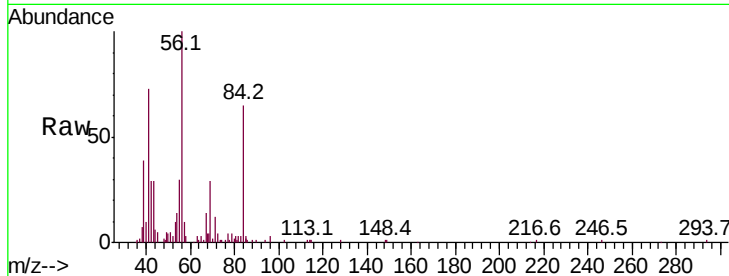
85 61.1 50.6 76.0





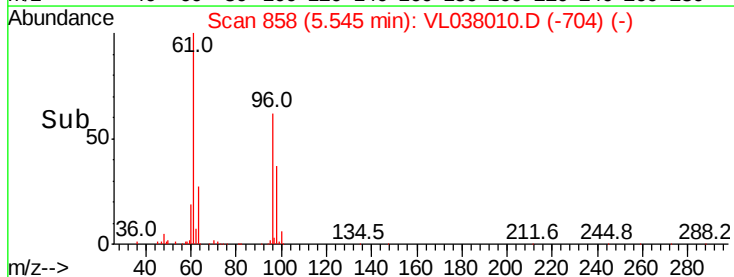
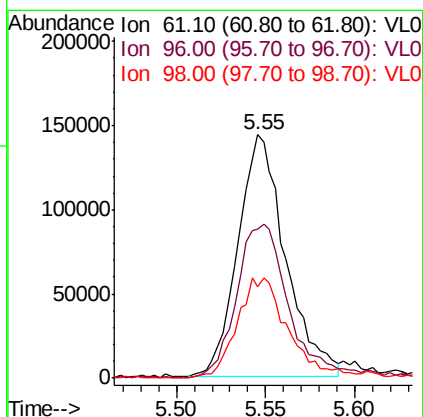
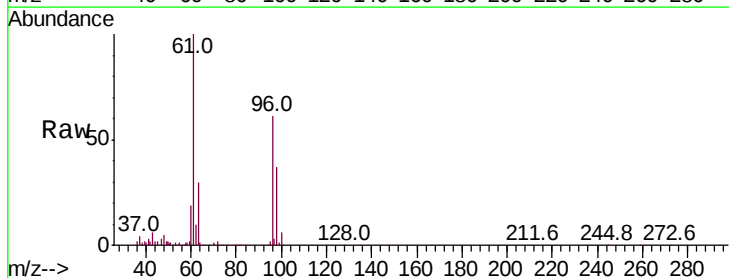
#30
Cvclohexane
Concen: 0.252 ppbv
RT: 7.12
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 10 Nov 2021 15:30

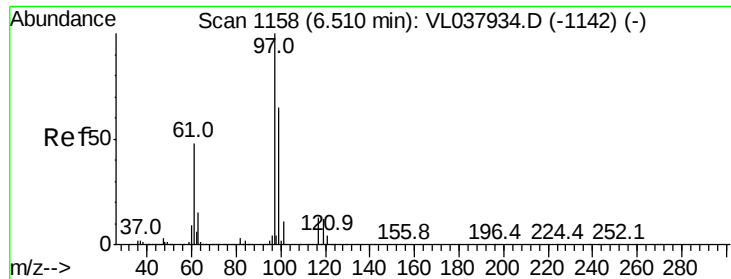
Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.0	171.0#
41	0.0	68.3	102.5#



#31
cis-1,2-Dichloroethene
Concen: 1.693 ppbv
RT: 5.55 min Scan# 858
Delta R.T. -0.00 min
Lab File: VL038010.D
Acq: 10 Nov 2021 15:30

Tgt Ion	Ratio	Lower	Upper
61	100		
96	61.3	55.6	83.4
98	37.3	34.9	52.3





#32

1,1,1-Trichloroethane

Concen: 0.071 ppbv

RT: 6.51 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 10 Nov 2021 15:30

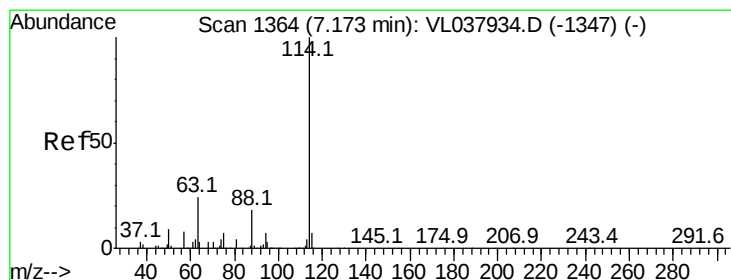
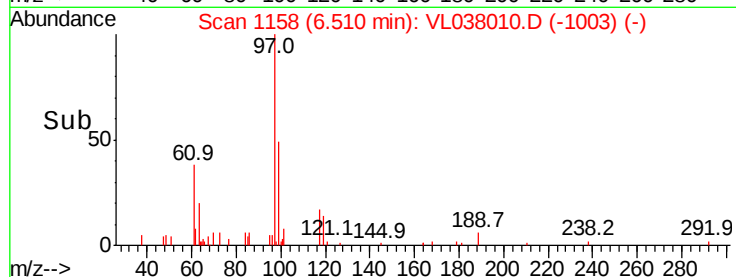
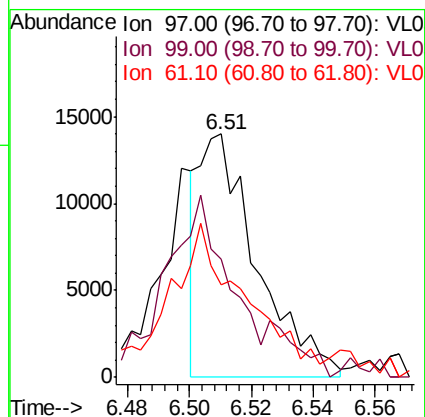
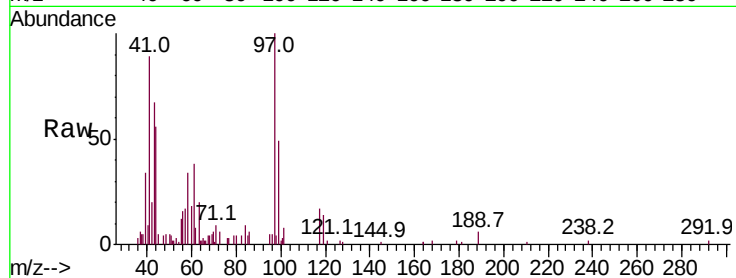
Tot Ion: 97 Resp: 18001

Ion Ratio Lower Upper

97 100

99 100.7 52.2 78.4#

61 101.3 39.8 59.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VL038010.D

Acq: 10 Nov 2021 15:30

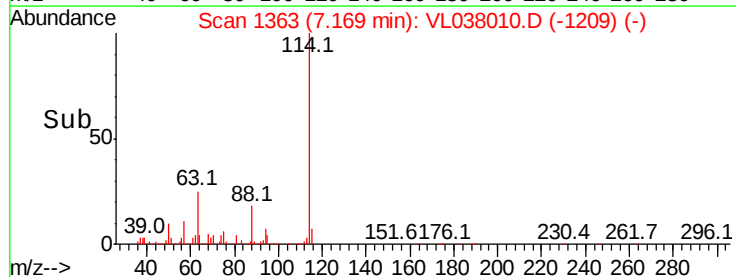
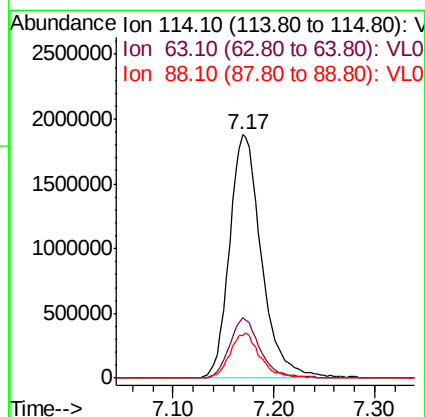
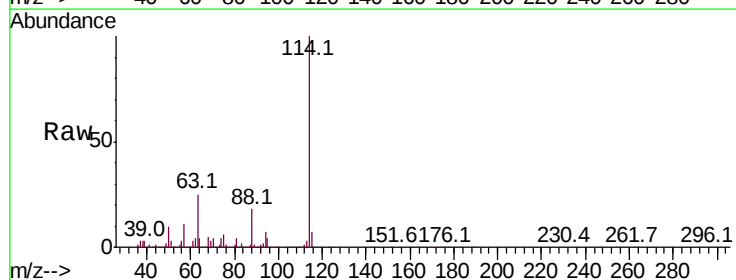
Tgt Ion: 114 Resp: 4139607

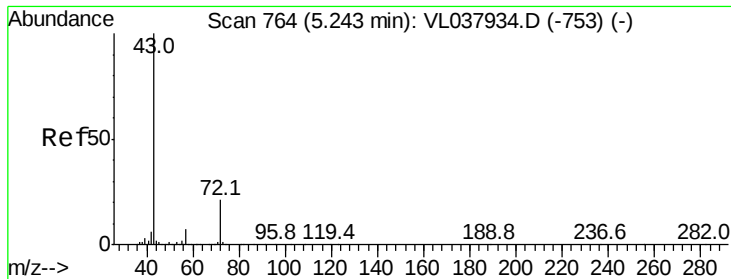
Ion Ratio Lower Upper

114 100

63 23.9 19.4 29.0

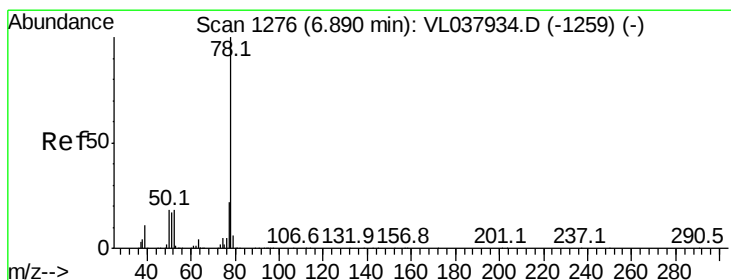
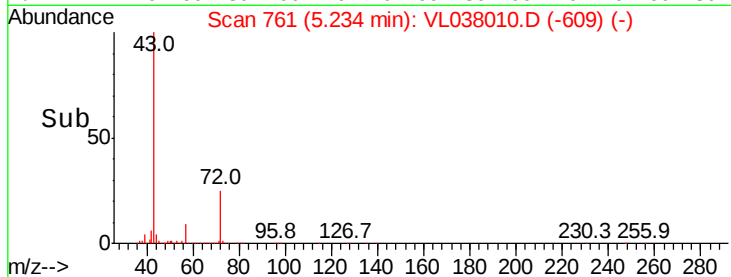
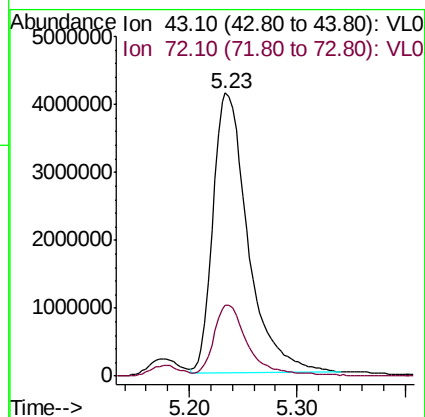
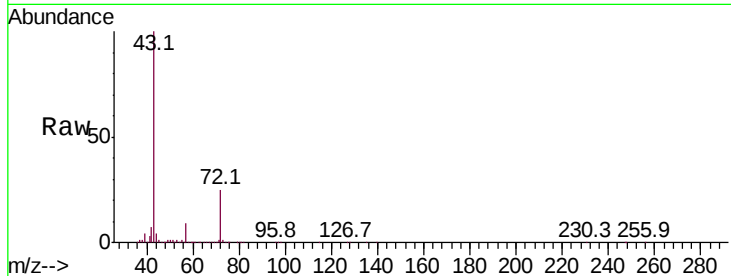
88 17.8 14.2 21.4





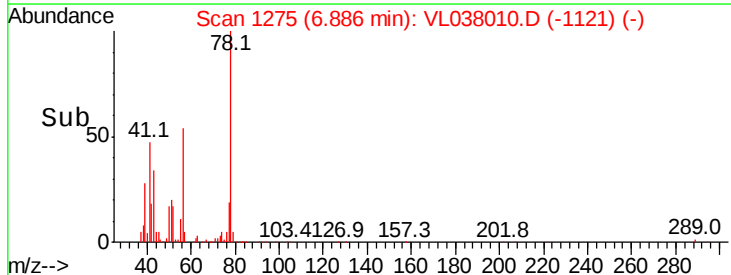
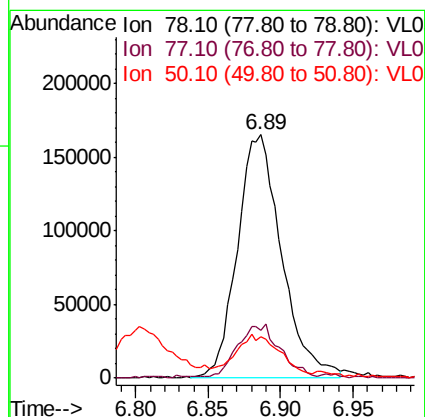
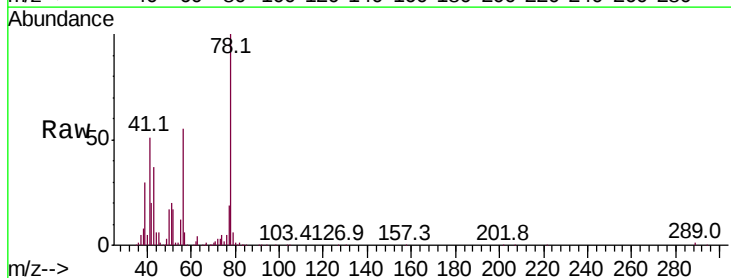
#34
2-Butanone
Concen: 60.706 ppbv
RT: 5.23
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 10 Nov 2021 15:30

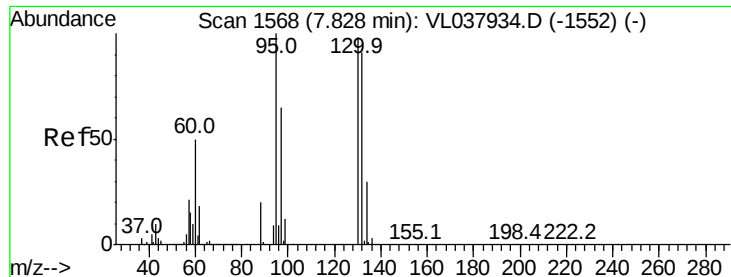
Tot Ion: 43 Resp: 9311992
Ion Ratio Lower Upper
43 100
72 25.1 18.3 27.5



#36
Benzene
Concen: 1.035 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.00 min
Lab File: VL038010.D
Acq: 10 Nov 2021 15:30

Tgt Ion: 78 Resp: 348970
Ion Ratio Lower Upper
78 100
77 19.0 17.9 26.9
50 15.3 14.4 21.6





#38

Trichloroethene

Concen: 18.529 ppbv

RT: 7.83

Instrument: MSVOA_1

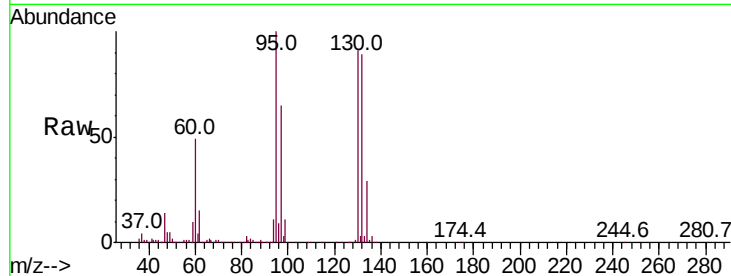
Delta R.T.

Lab File: ClientSampleId :

Acq: 10 Nov 2021 15:30

Tot Ion:130 Resp: 2592551

Ion	Ratio	Lower	Upper
130	100		
95	109.5	81.8	122.8
132	97.9	74.2	111.2
97	70.7	53.4	80.2



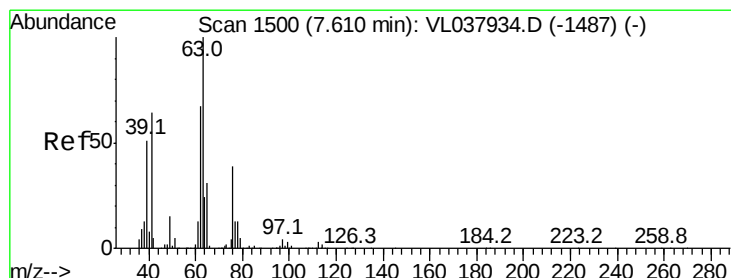
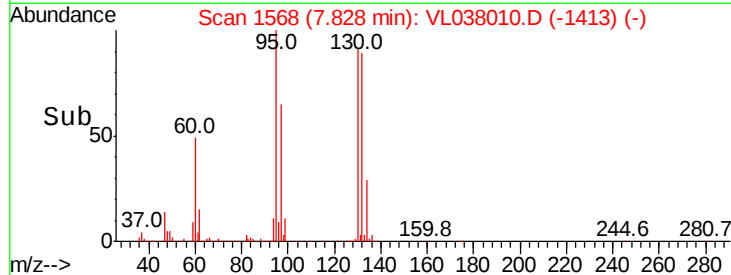
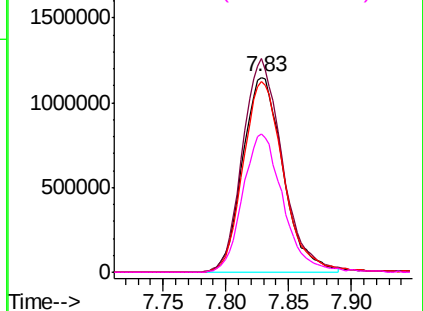
Abundance

Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 0.111 ppbv

RT: 7.22 min Scan# 1378

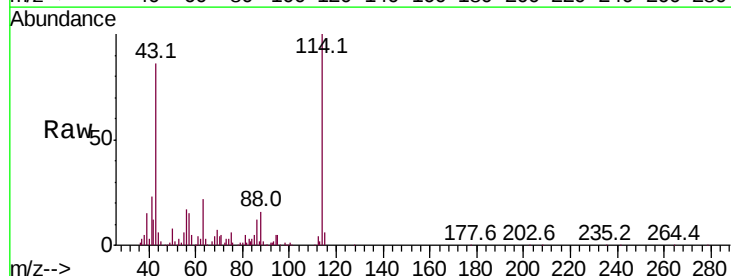
Delta R.T. -0.39 min

Lab File: VL038010.D

Acq: 10 Nov 2021 15:30

Tgt Ion: 63 Resp: 14097

Ion	Ratio	Lower	Upper
63	100		
41	44.8	51.6	77.4#
62	7.5	53.5	80.3#

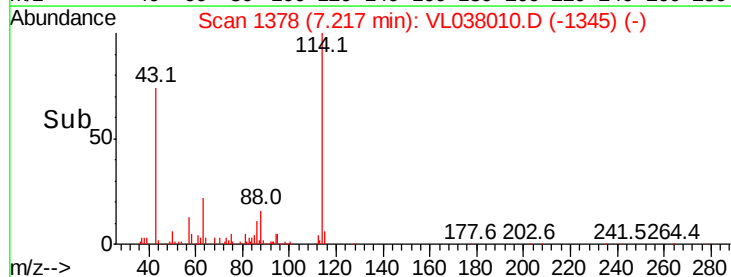
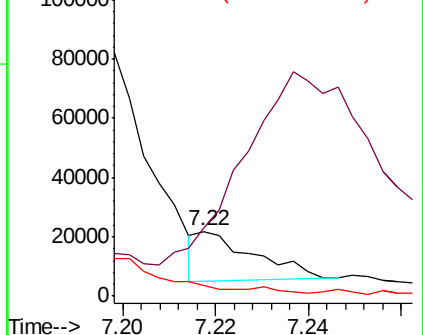


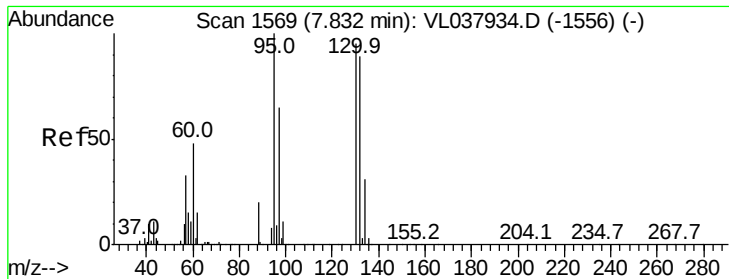
Abundance

Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

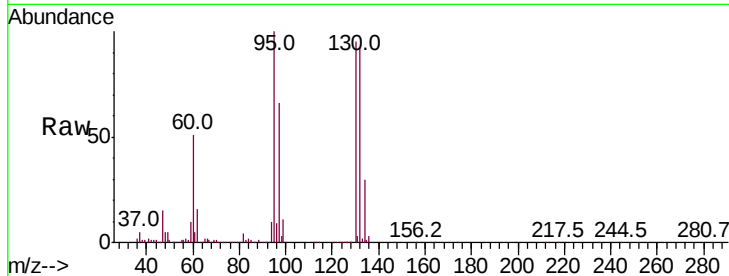
Ion 62.10 (61.80 to 62.80): VL0



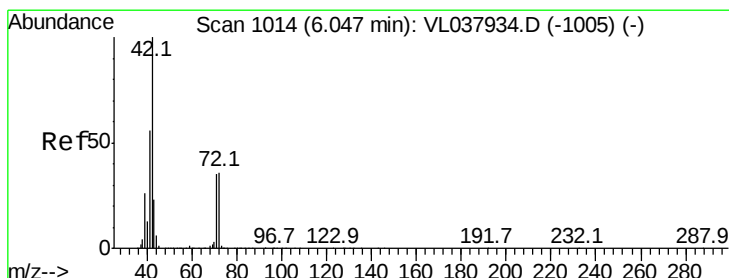
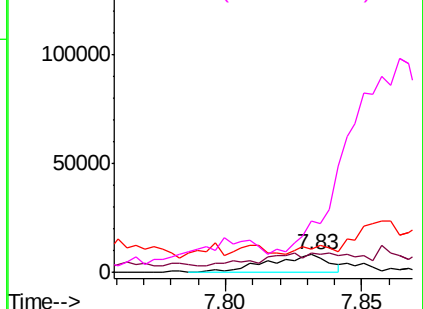
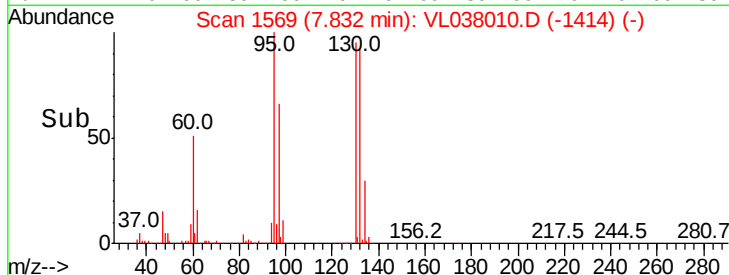


#40
1,4-Dioxane
Concen: 0.366 ppbv
RT: 7.83
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 10 Nov 2021 15:30

Tot Ion: 88 Resp: 12229
Ion Ratio Lower Upper
88 100
58 0.0 129.1 193.7#
43 0.0 313.2 469.8#
57 0.0 1408.6 2112.8#

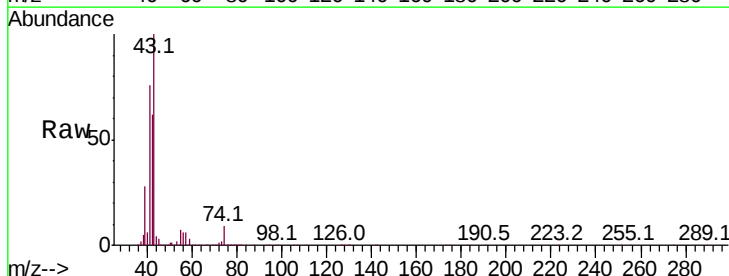


Abundance Ion 88.10 (87.80 to 88.80): VL0
150000 Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

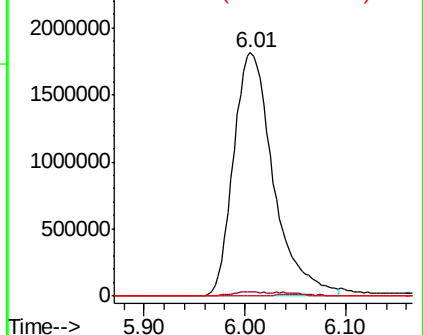
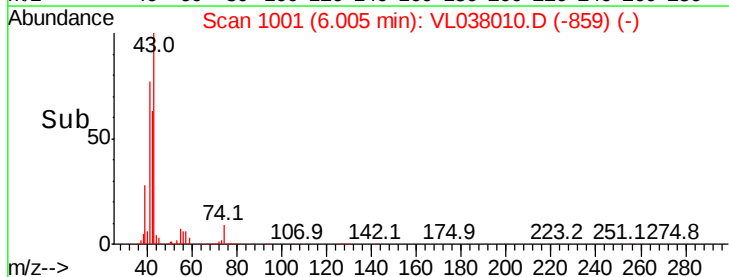


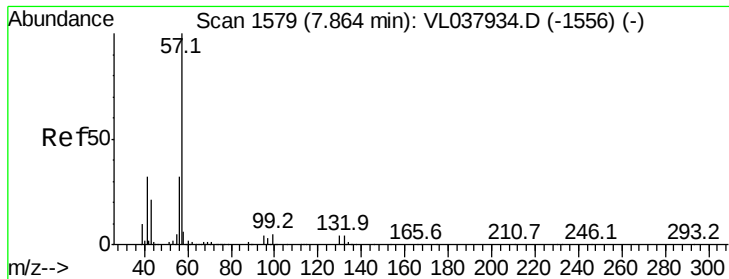
#41
Tetrahydrofuran
Concen: 66.458 ppbv
RT: 6.01 min Scan# 1001
Delta R.T. -0.04 min
Lab File: VL038010.D
Acq: 10 Nov 2021 15:30

Tgt Ion: 42 Resp: 4987977
Ion Ratio Lower Upper
42 100
72 2.9 31.5 47.3#
71 0.9 30.5 45.7#



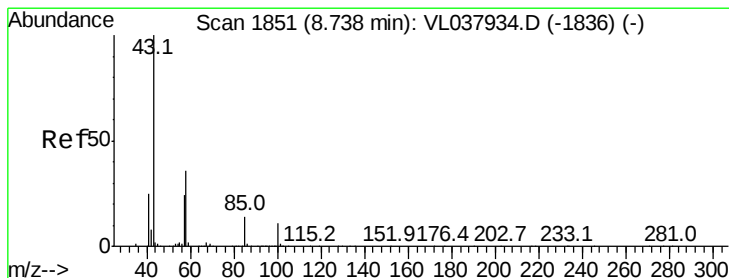
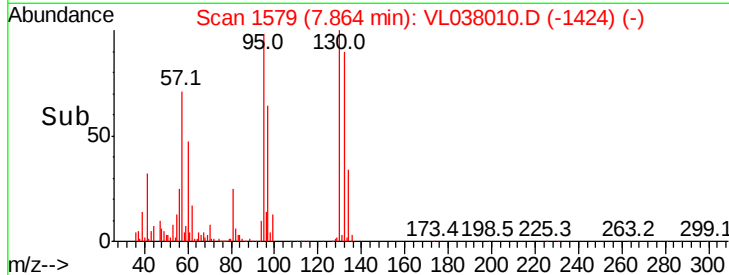
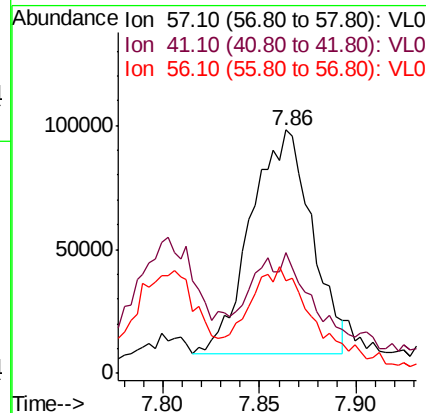
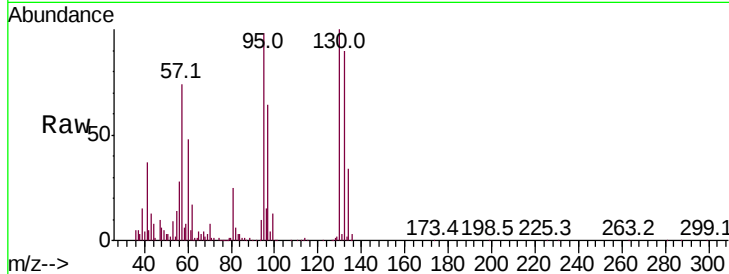
Abundance Ion 42.10 (41.80 to 42.80): VL0
2500000 Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0





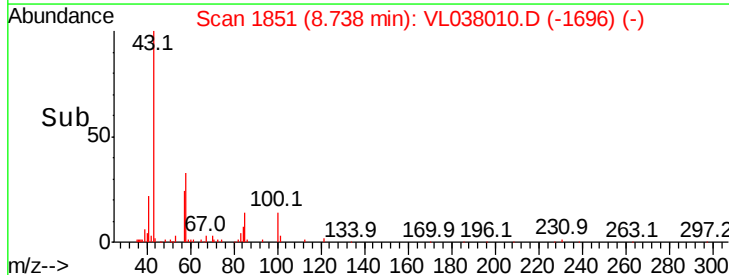
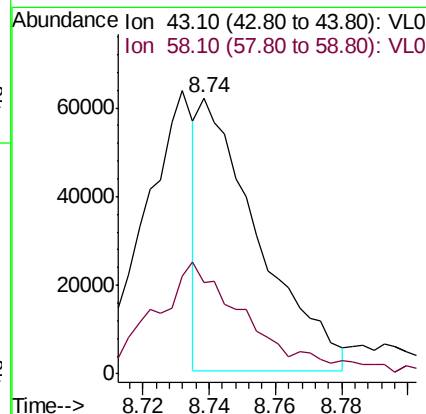
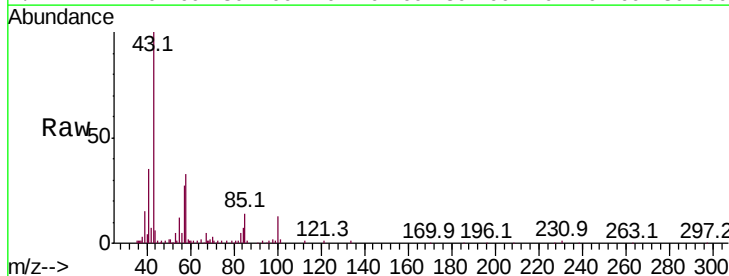
#44
 2,2,4-Trimethylpentane
 Concen: 0.342 ppbv
 RT: 7.86
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 10 Nov 2021 15:30

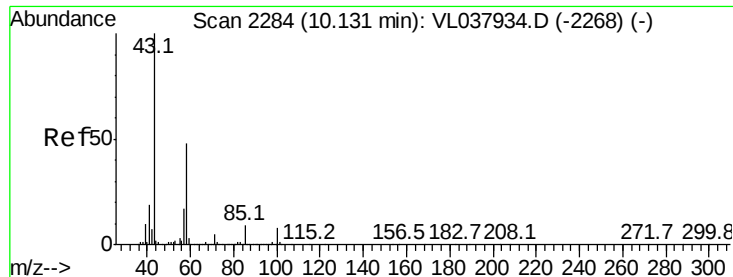
Tot Ion	57	Resp	196219
Ion Ratio	100		
Lower		25.8	
Upper		38.8#	
56	58.0		38.9#



#50
 4-Methyl-2-Pentanone
 Concen: 0.377 ppbv
 RT: 8.74 min Scan# 1851
 Delta R.T.: -0.00 min
 Lab File: VL038010.D
 Acq: 10 Nov 2021 15:30

Tgt Ion	43	Resp	76074
Ion Ratio	100		
Lower		28.8	
Upper		43.2#	
58	75.1		





#51

2-Hexanone

Concen: 10.183 ppbv

RT: 10.12 min

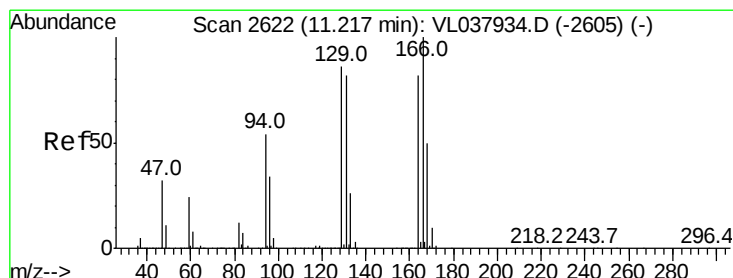
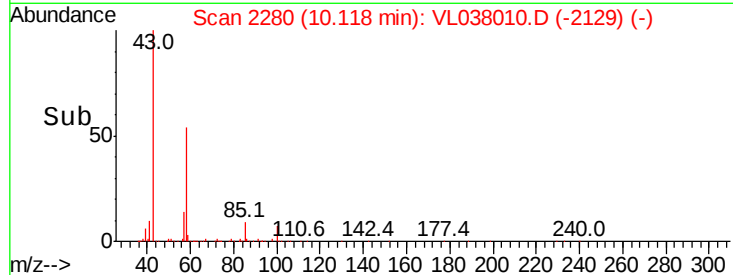
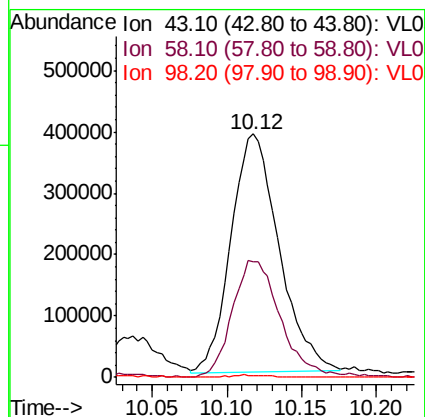
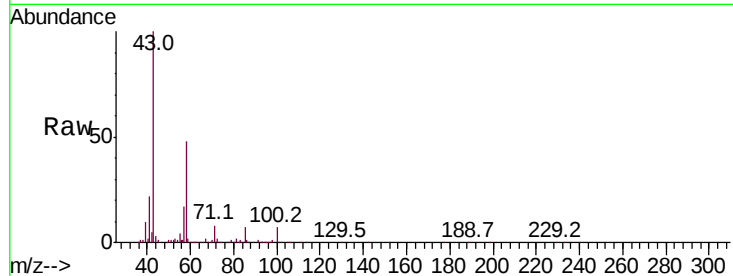
Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 15:30

Tot Ion: 43 Resp: 864921

Ion	Ratio	Lower	Upper
43	100		
58	49.5	38.6	57.8
98	0.8	1.0	1.4#



#52

Tetrachloroethene

Concen: 43.537 ppbv

RT: 11.22 min Scan# 2623

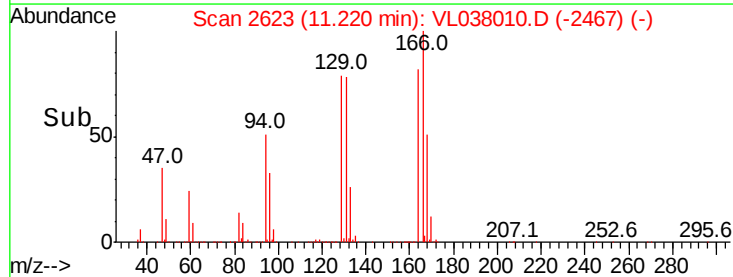
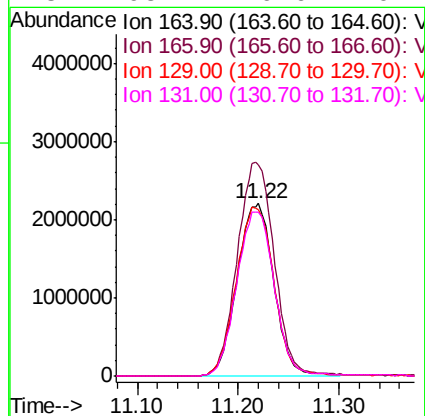
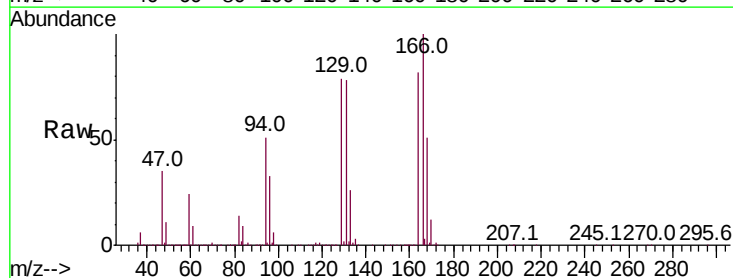
Delta R.T. 0.00 min

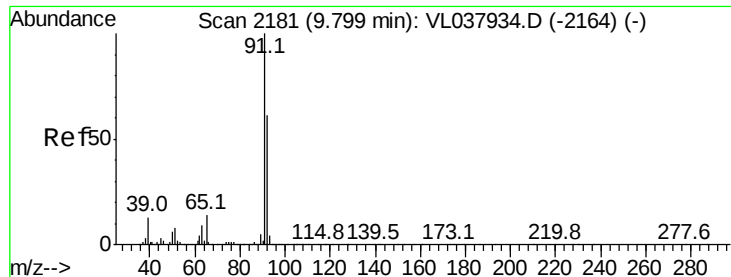
Lab File: VL038010.D

Acq: 10 Nov 2021 15:30

Tgt Ion: 164 Resp: 5567774

Ion	Ratio	Lower	Upper
164	100		
166	122.3	97.6	146.4
129	96.5	84.2	126.2
131	95.1	79.6	119.4





#53

Toluene

Concen: 12.742 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

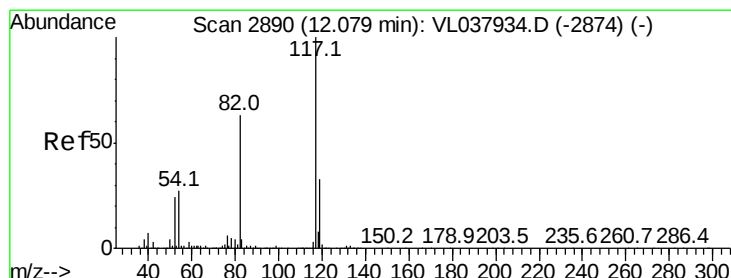
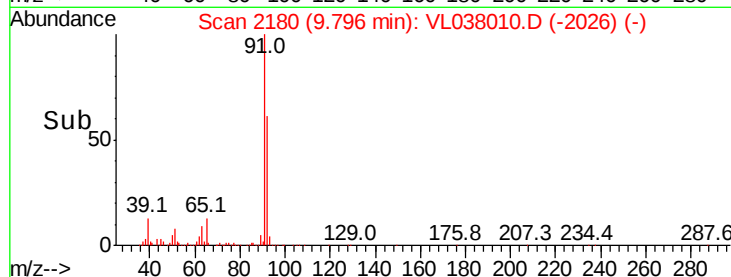
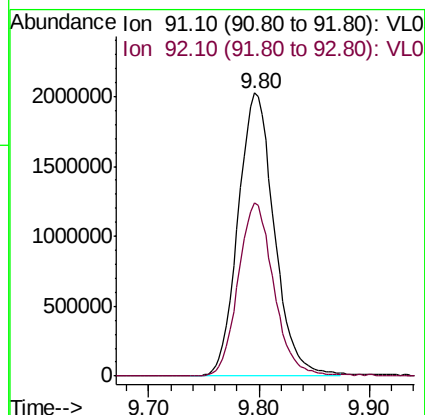
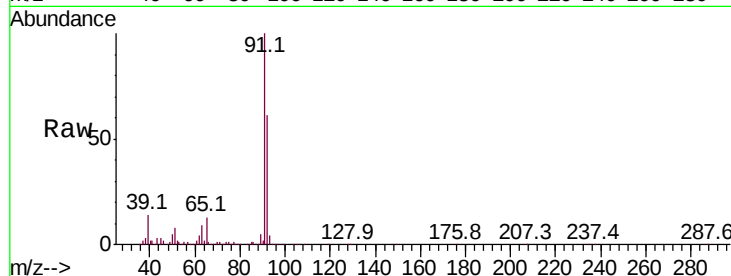
Acq: 10 Nov 2021 15:30

Tot Ion: 91 Resp: 4605223

Ion Ratio Lower Upper

91 100

92 60.6 48.2 72.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.01 min

Lab File: VL038010.D

Acq: 10 Nov 2021 15:30

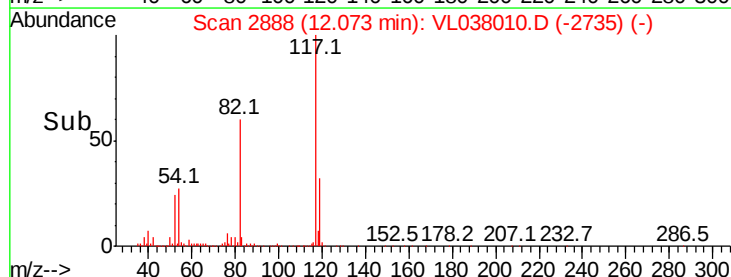
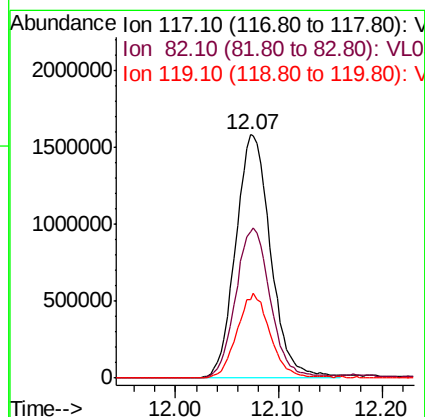
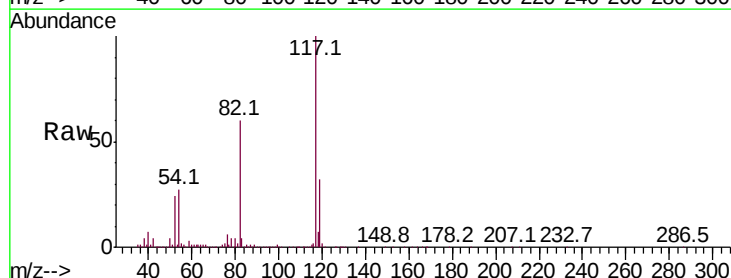
Tgt Ion: 117 Resp: 3757821

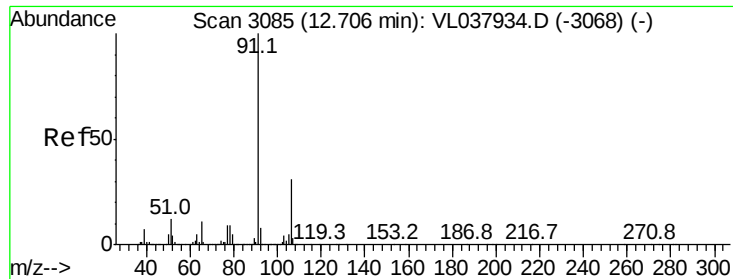
Ion Ratio Lower Upper

117 100

82 61.4 51.0 76.6

119 33.8 26.9 40.3





#58

Ethyl Benzene

Concen: 2.594 ppbv

RT: 12.70 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

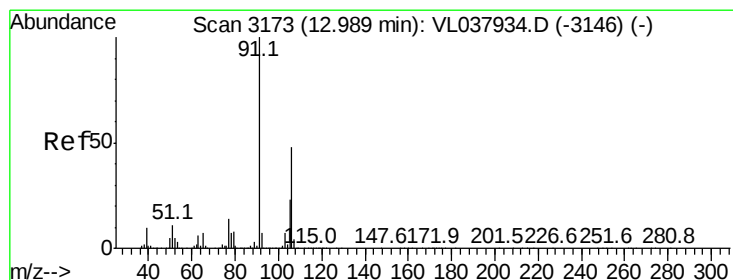
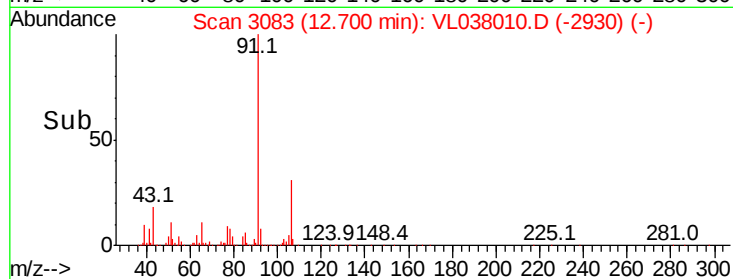
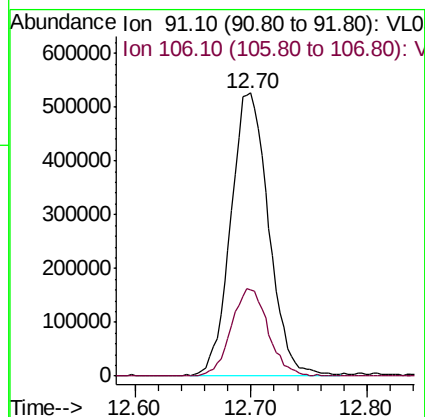
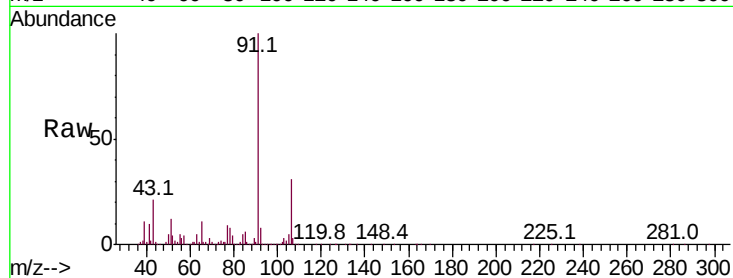
Acq: 10 Nov 2021 15:30

Tot Ion: 91 Resp: 1192205

Ion Ratio Lower Upper

91 100

106 30.5 25.1 37.7



#59

m/p-Xylene

Concen: 8.244 ppbv

RT: 12.95 min Scan# 3162

Delta R.T. -0.04 min

Lab File: VL038010.D

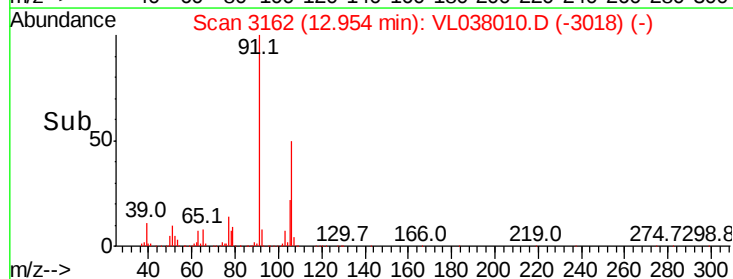
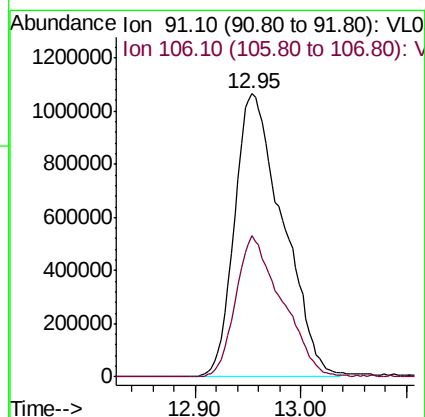
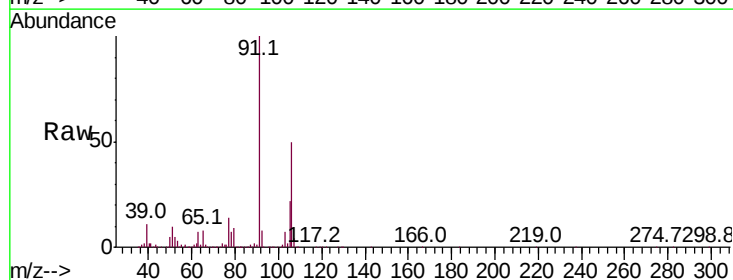
Acq: 10 Nov 2021 15:30

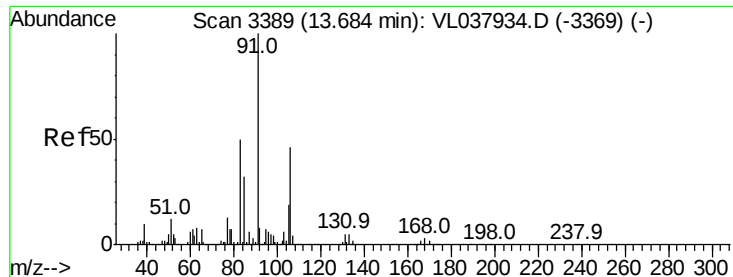
Tgt Ion: 91 Resp: 3367420

Ion Ratio Lower Upper

91 100

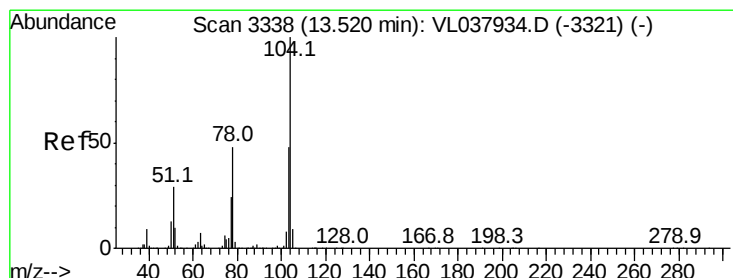
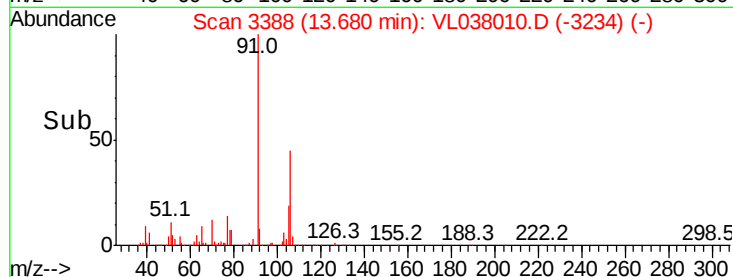
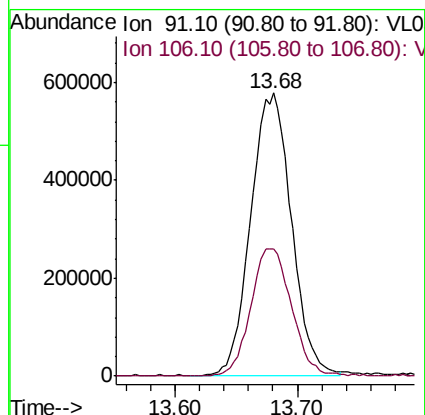
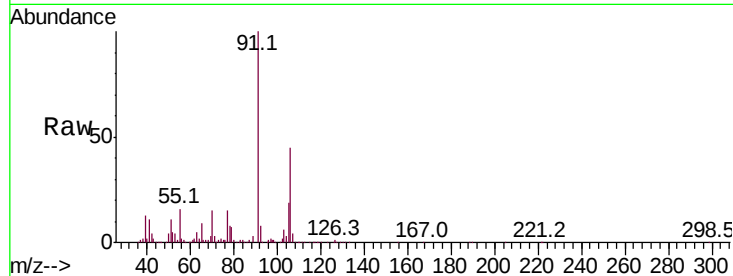
106 48.4 37.1 55.7





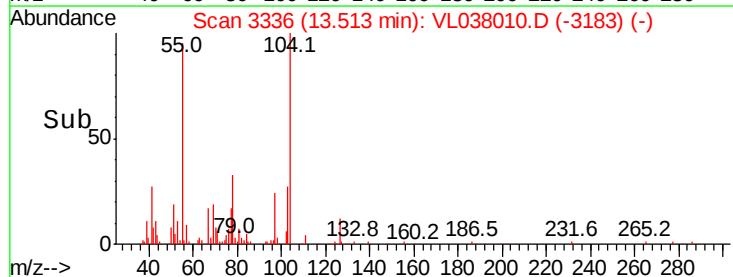
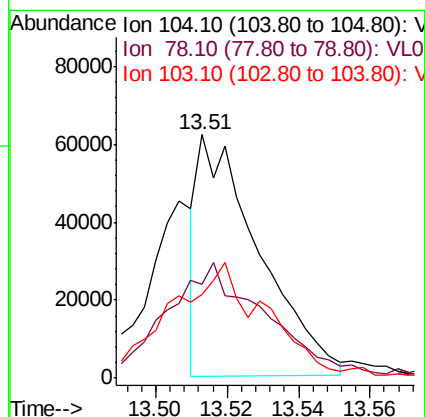
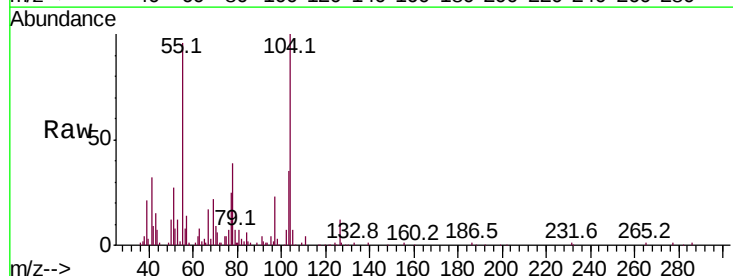
#60
o-Xylene
Concen: 3.466 ppbv
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 10 Nov 2021 15:30

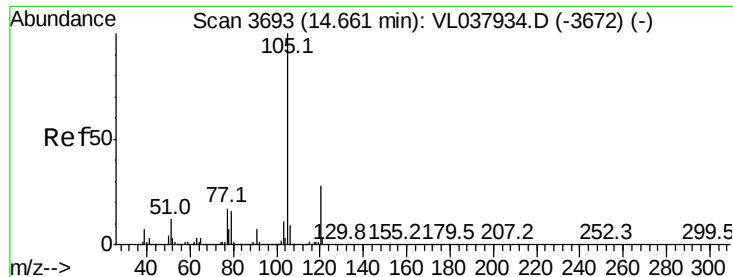
Tot Ion: 91 Resp: 1334687
Ion Ratio Lower Upper
91 100
106 45.3 23.5 70.6



#61
Styrene
Concen: 0.414 ppbv
RT: 13.51 min Scan# 3336
Delta R.T. -0.01 min
Lab File: VL038010.D
Acq: 10 Nov 2021 15:30

Tgt Ion:104 Resp: 73165
Ion Ratio Lower Upper
104 100
78 86.1 39.3 58.9#
103 79.3 39.6 59.4#





#62

Isopropylbenzene

Concen: 0.068 ppbv

RT: 14.65

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

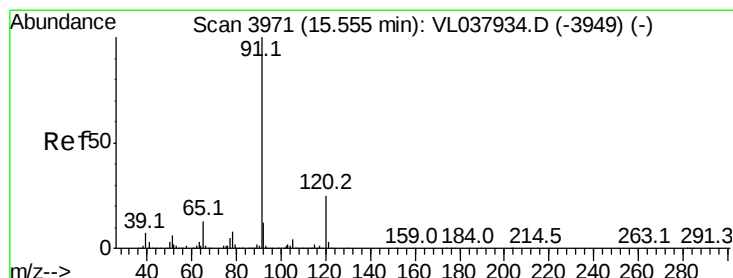
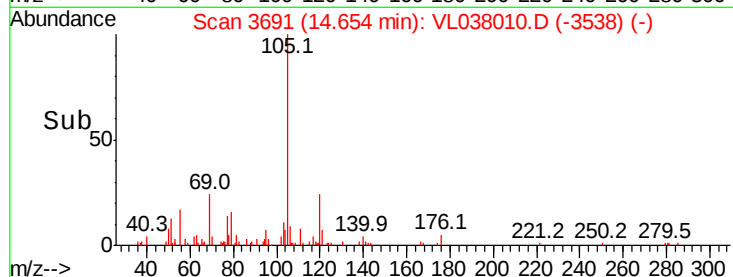
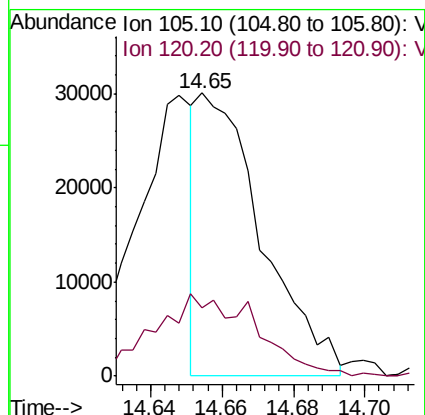
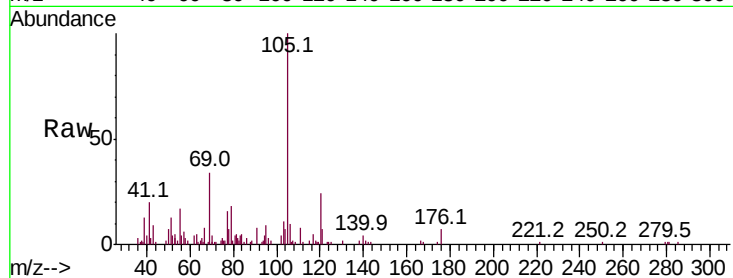
Acq: 10 Nov 2021 15:30

Tot Ion:105 Resp: 37246

Ion Ratio Lower Upper

105 100

120 49.0 21.8 32.6#



#64

n-propylbenzene

Concen: 0.141 ppbv

RT: 15.54 min Scan# 3967

Delta R.T. -0.01 min

Lab File: VL038010.D

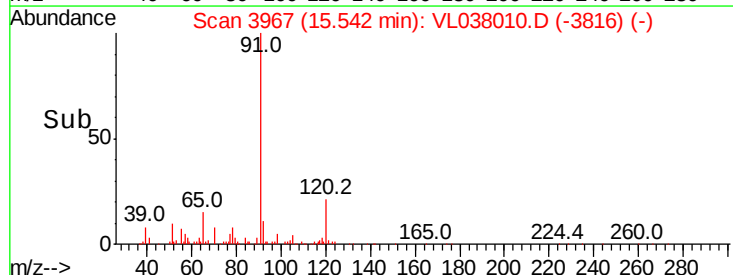
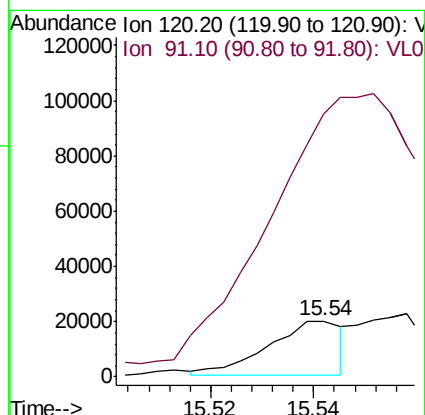
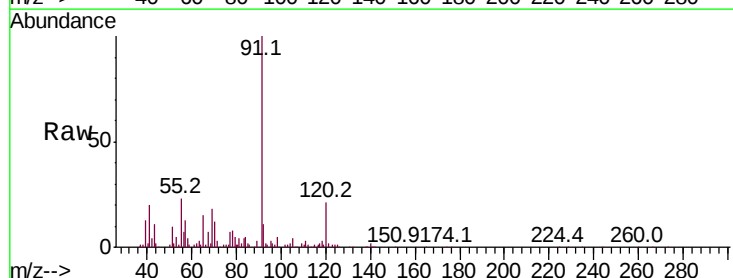
Acq: 10 Nov 2021 15:30

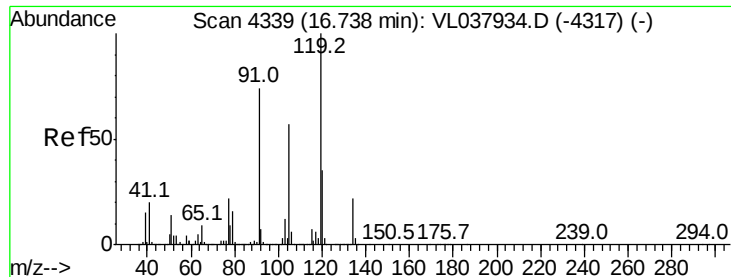
Tgt Ion:120 Resp: 19664

Ion Ratio Lower Upper

120 100

91 0.0 363.3 544.9#





#65

tert-Butylbenzene

Concen: 0.110 ppbv

RT: 16.74 min

Delta R.T. MSVOA_L

Lab File:

Acq: 10 Nov 2021 15:30

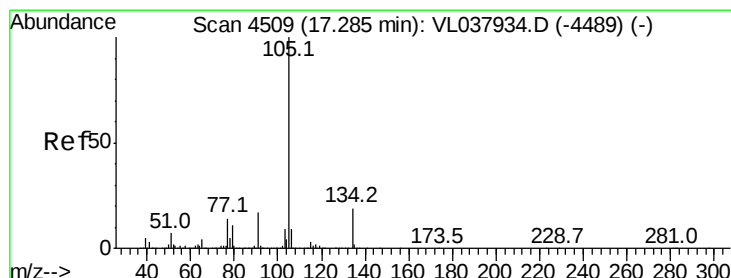
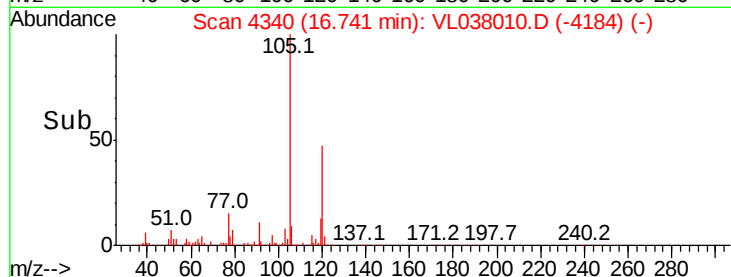
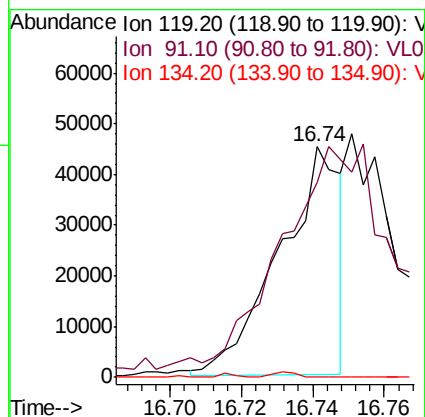
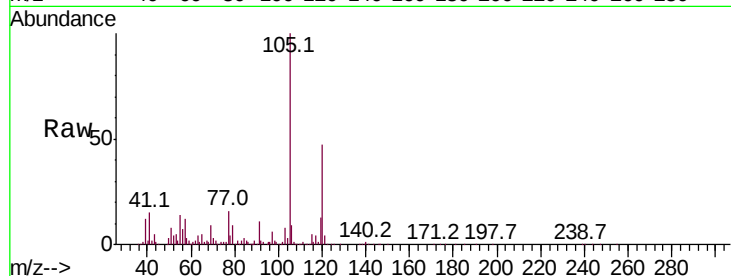
Tot Ion: 119 Resp: 52903

Ion Ratio Lower Upper

119 100

91 0.0 61.8 92.6#

134 1.8 16.6 25.0#



#67

sec-Butylbenzene

Concen: 0.046 ppbv

RT: 17.28 min Scan# 4507

Delta R.T. -0.01 min

Lab File: VL038010.D

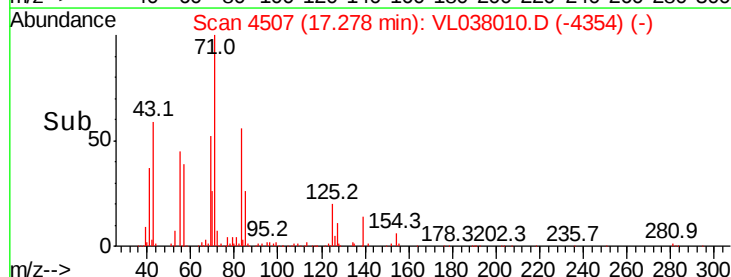
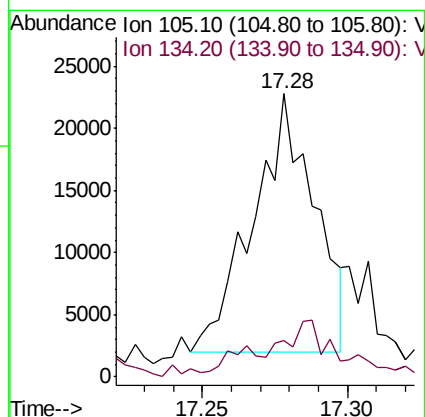
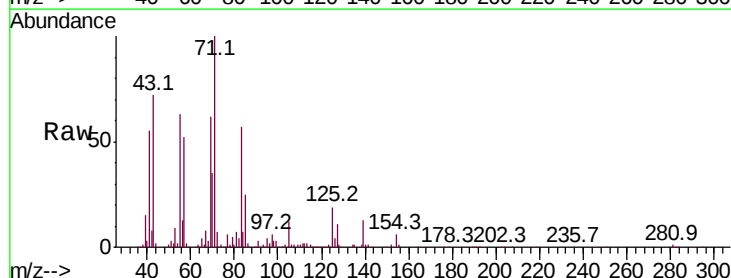
Acq: 10 Nov 2021 15:30

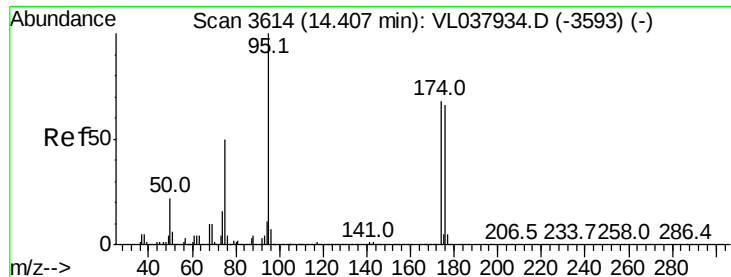
Tgt Ion: 105 Resp: 30552

Ion Ratio Lower Upper

105 100

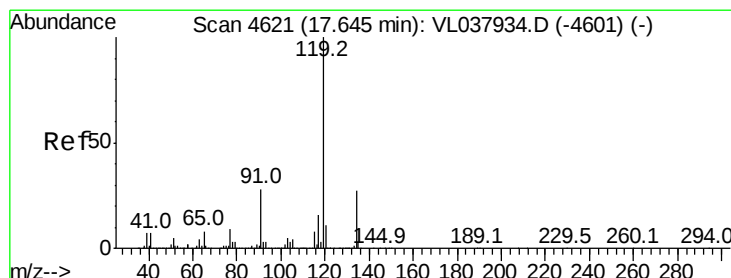
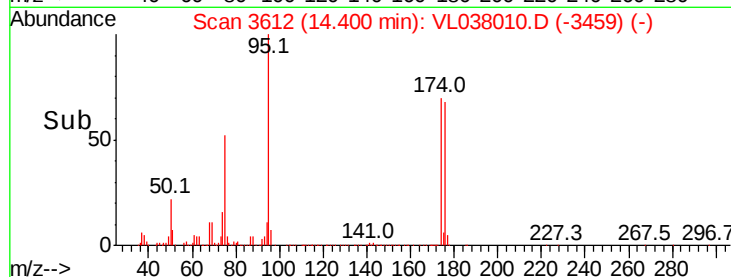
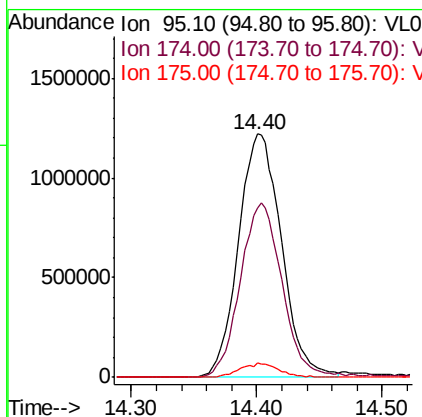
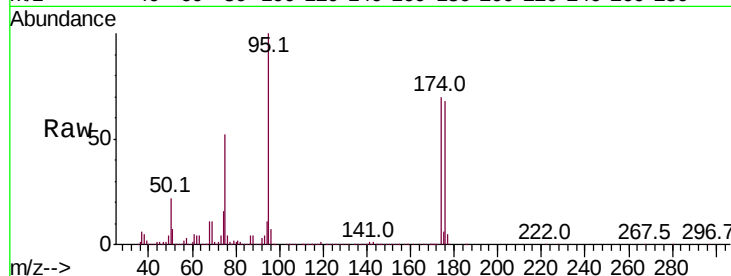
134 28.5 15.4 23.0#





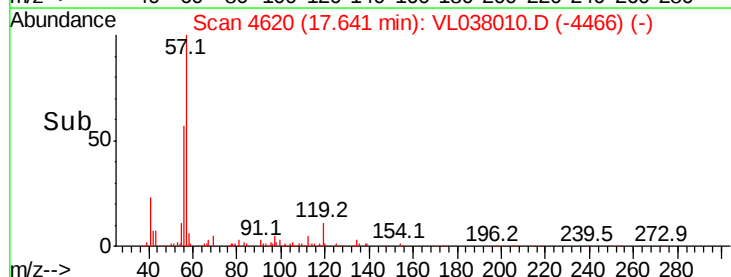
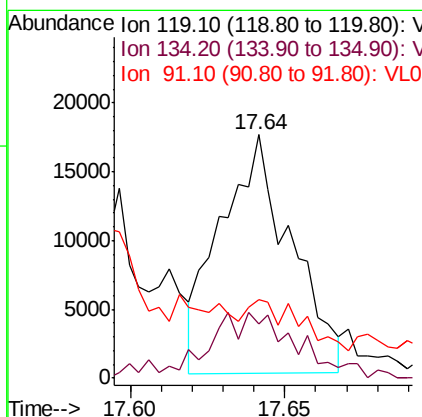
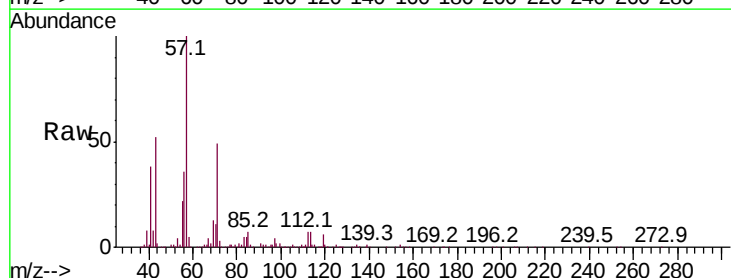
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.625 ppbv
 RT: 14.40 min
 Delta R.T.: 0.00 min
 Lab File: VL038010.D
 Acq: 10 Nov 2021 15:30

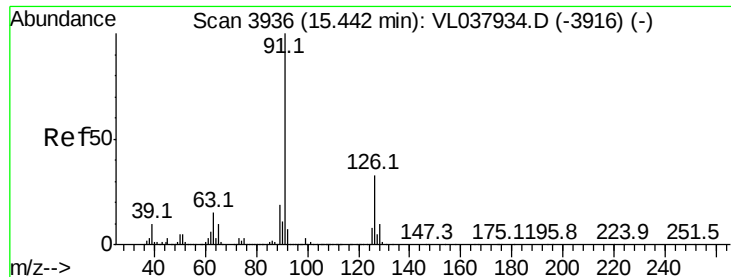
Tot Ion: 95 Resp: 2902180
 Ion Ratio Lower Upper
 95 100
 174 71.6 58.3 87.5
 175 5.5 4.6 6.8



#69
 p-Isopropyltoluene
 Concen: 0.052 ppbv
 RT: 17.64 min Scan# 4620
 Delta R.T.: -0.00 min
 Lab File: VL038010.D
 Acq: 10 Nov 2021 15:30

Tgt Ion: 119 Resp: 27761
 Ion Ratio Lower Upper
 119 100
 134 35.9 21.0 31.4#
 91 0.0 21.8 32.8#





#71

2-Chlorotoluene

Concen: 1.122 ppbv

RT: 15.30

Delta R.T. MSVOA_1

Lab File:

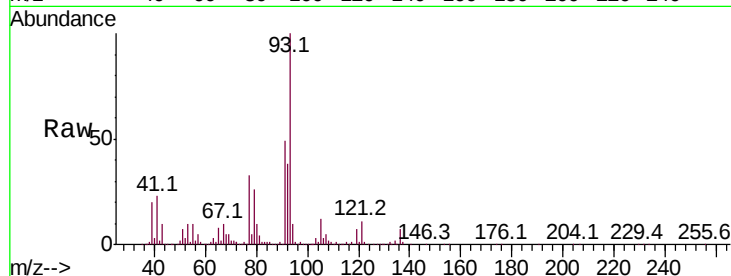
Acq: 10 Nov 2021 15:30

Tot Ion: 91 Resp: 428519

Ion Ratio Lower Upper

91 100

126 0.1 13.3 53.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

15.30

200000

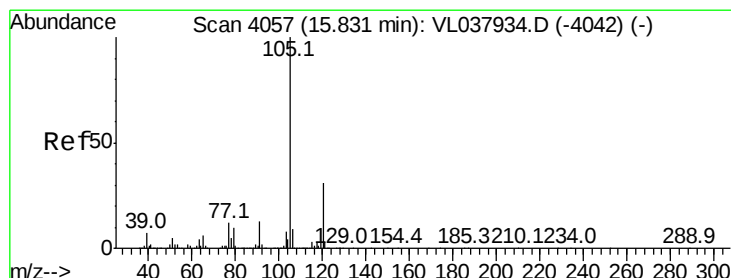
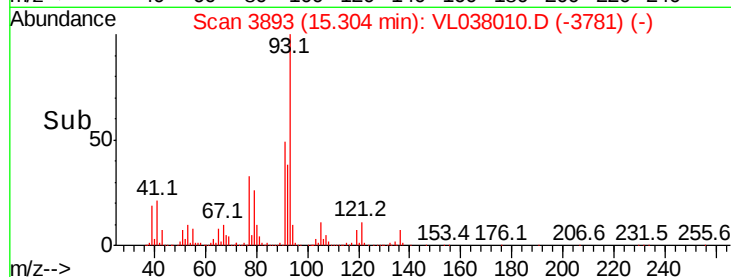
150000

100000

50000

0

Time-->



#72

4-Ethyltoluene

Concen: 0.377 ppbv

RT: 15.82 min Scan# 4054

Delta R.T. -0.01 min

Lab File: VL038010.D

Acq: 10 Nov 2021 15:30

Tgt Ion: 105 Resp: 166148

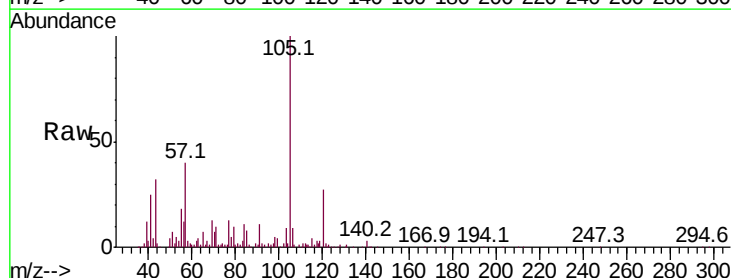
Ion Ratio Lower Upper

105 100

120 0.0 25.3 37.9#

91 0.0 9.9 14.9#

77 24.8 10.7 16.1#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

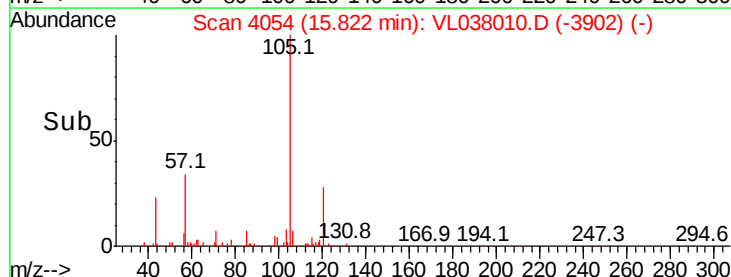
150000

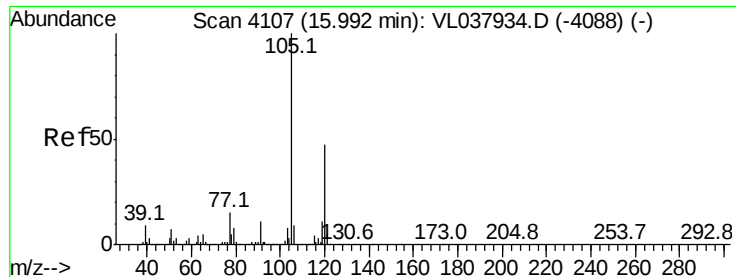
100000

50000

0

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 0.422 ppbv

RT: 15.98

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

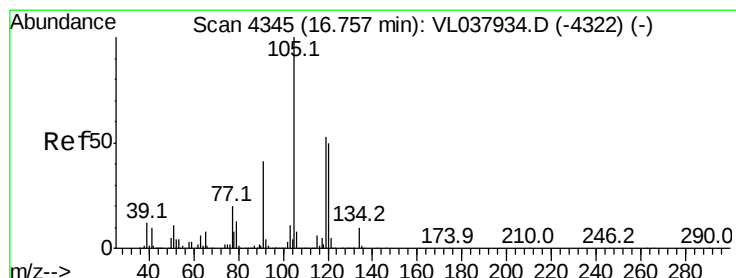
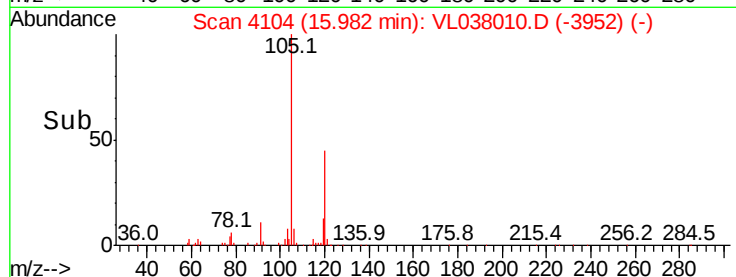
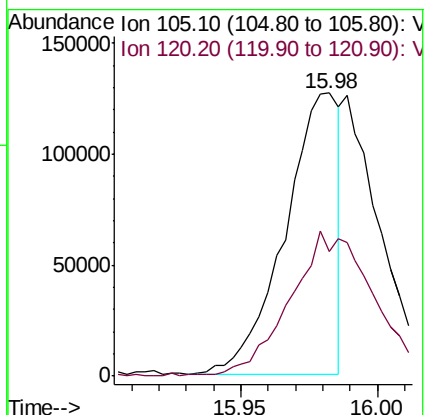
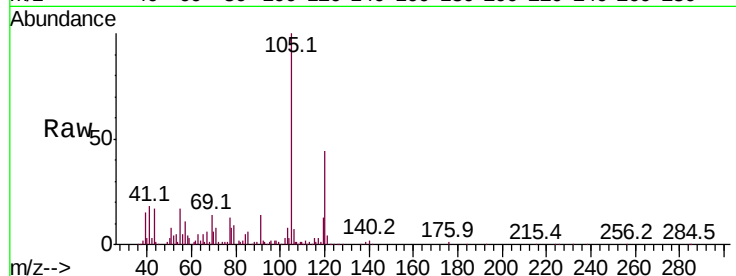
Acq: 10 Nov 2021 15:30

Tot Ion:105 Resp: 174157

Ion Ratio Lower Upper

105 100

120 43.2 37.9 56.9



#74

1,2,4-Trimethylbenzene

Concen: 2.013 ppbv

RT: 16.75 min Scan# 4342

Delta R.T. -0.01 min

Lab File: VL038010.D

Acq: 10 Nov 2021 15:30

Tgt Ion:105 Resp: 871215

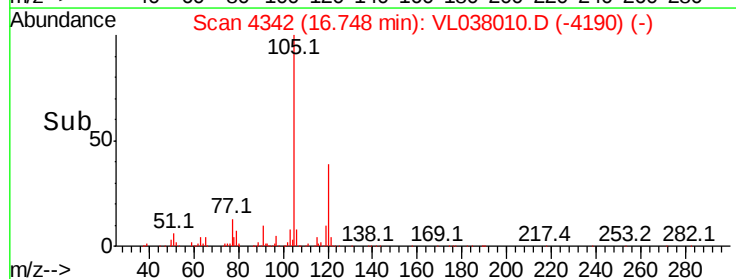
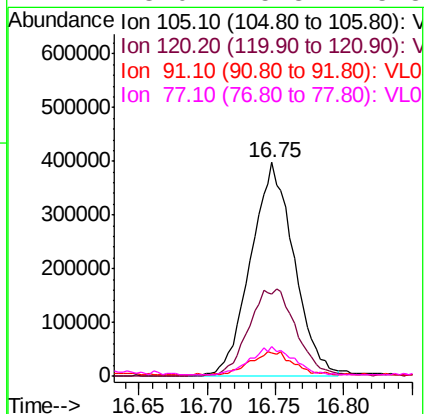
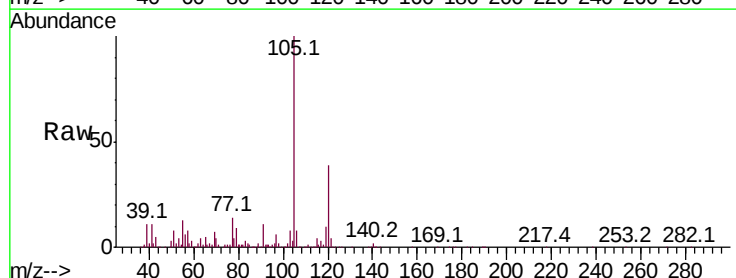
Ion Ratio Lower Upper

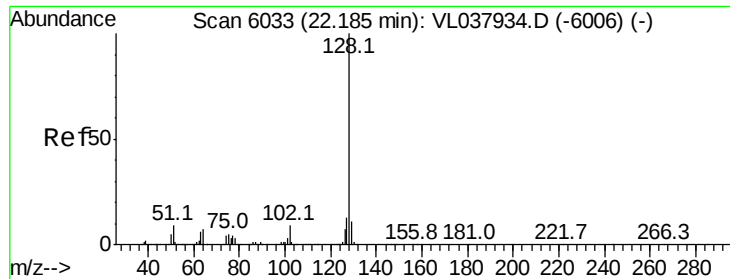
105 100

120 38.5 40.0 60.0#

91 10.2 32.6 49.0#

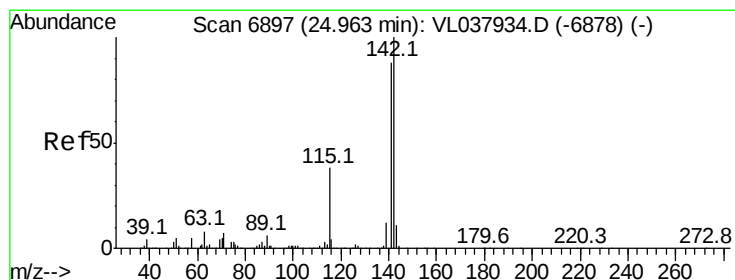
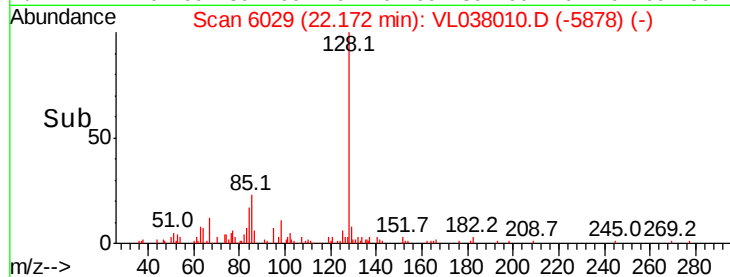
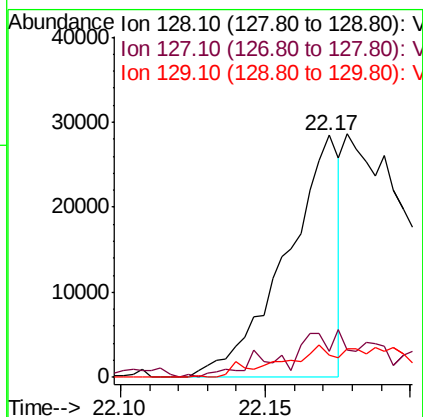
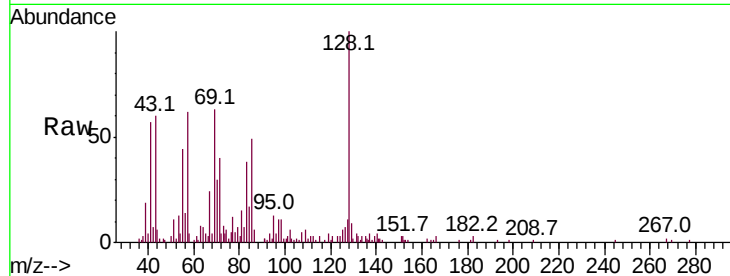
77 13.0 15.8 23.8#





#79
Naphthalene
Concen: 0.146 ppbv
RT: 22.17 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 10 Nov 2021 15:30

Tot Ion	Ratio	Lower	Upper
128	100		
127	9.6	10.2	15.2#
129	11.3	9.0	13.4



#80
Naphthalene, 2-methyl-
Concen: 0.098 ppbv
RT: 24.96 min Scan# 6897
Delta R.T. -0.00 min
Lab File: VL038010.D
Acq: 10 Nov 2021 15:30

Tgt Ion	Ratio	Lower	Upper
142	100		
141	130.6	66.4	99.6#
115	70.3	29.0	43.4#

