

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121621\
 Data File : VL038200.D
 Acq On : 16 Dec 2021 22:14
 Operator : SY/AP
 Sample : M5119-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 17 05:10:27 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1065095	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2998775	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.19	117	1091039	10.00	ppbv	0.12

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	92834	1.18	ppbv	0.17
Spiked Amount	10.000	Range	65 - 135	Recovery	=	11.80%#

Target Compounds

					Ovalue
3) Chlorodifluoromethane	2.99	51	80535	0.360	ppbv # 87
4) Chloromethane	3.14	50	1066977	14.013	ppbv 97
5) Vinyl Chloride	3.26	62	267103	3.576	ppbv 94
7) Chloroethane	3.56	64	66767	2.519	ppbv 98
9) Propene	3.01	41	18884017	229.242	ppbv # 73
10) Heptane	8.17	43	25985439	127.635	ppbv # 81
11) Trichlorofluoromethane	3.96	101	16821	0.101	ppbv 97
13) Ethanol	3.60	45	322042	40.455	ppbv 91
15) Acetone	3.85	43	8042329	87.090	ppbv # 84
16) 1,3-Butadiene	3.34	39	33504639	465.061	ppbv # 9
17) tert-Butyl alcohol	4.30	59	123012	1.098	ppbv # 71
19) Isopropyl Alcohol	3.97	45	9442681	141.520	ppbv 100
20) Methylene Chloride	4.36	84	470563	9.097	ppbv 95
21) Allyl Chloride	4.42	41	41821	0.489	ppbv # 19
22) trans-1,2-Dichloroethene	4.89	96	3361	0.061	ppbv 83
23) Vinyl Acetate	5.07	43	113799	0.851	ppbv # 1
25) Ethyl Acetate	5.68	43	620584	2.022	ppbv # 85
26) Hexane	5.70	57	859687	5.811	ppbv # 72
27) Carbon Disulfide	4.57	76	150557	1.136	ppbv 98
28) Methyl tert-Butyl Ether	5.05	73	34079	0.271	ppbv # 1
29) Chloroform	5.76	83	6122604	28.083	ppbv 94
30) Cyclohexane	7.14	84	554271	4.127	ppbv # 1
31) cis-1,2-Dichloroethene	5.68	61	85162	0.605	ppbv # 24
34) 2-Butanone	5.25	43	6433814	53.208	ppbv 98
36) Benzene	6.90	78	1528892	5.111	ppbv # 89
39) 1,2-Dichloropropane	7.51	63	68045	0.593	ppbv # 1
41) Tetrahydrofuran	6.01	42	1655070	22.049	ppbv # 40
42) Bromodichloromethane	7.81	83	508363	2.315	ppbv # 26
43) Methyl Methacrylate	8.02	69	615831	6.018	ppbv 93
44) 2,2,4-Trimethylpentane	7.89	57	1296511	2.591	ppbv # 1
47) 1,1,2-Trichloroethane	9.40	97	887569	7.386	ppbv # 1
50) 4-Methyl-2-Pentanone	8.84	43	4843156	26.374	ppbv # 82
51) 2-Hexanone	10.21	43	12363246	143.100	ppbv # 27
53) Toluene	9.83	91	3443539	10.005	ppbv 99
57) Chlorobenzene	12.19	112	12153200	124.281	ppbv # 37
58) Ethyl Benzene	12.87	91	39682035	220.055	ppbv # 40
59) m/p-Xylene	13.15	91	37608041	247.747	ppbv # 65
60) o-Xylene	13.85	91	16013256	113.715	ppbv 92
61) Styrene	13.84	104	433297	5.739	ppbv # 1
62) Isopropylbenzene	14.74	105	524158	2.622	ppbv 97
63) 1,1,2,2-Tetrachloroethane	13.83	83	1704488	16.295	ppbv # 55

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration

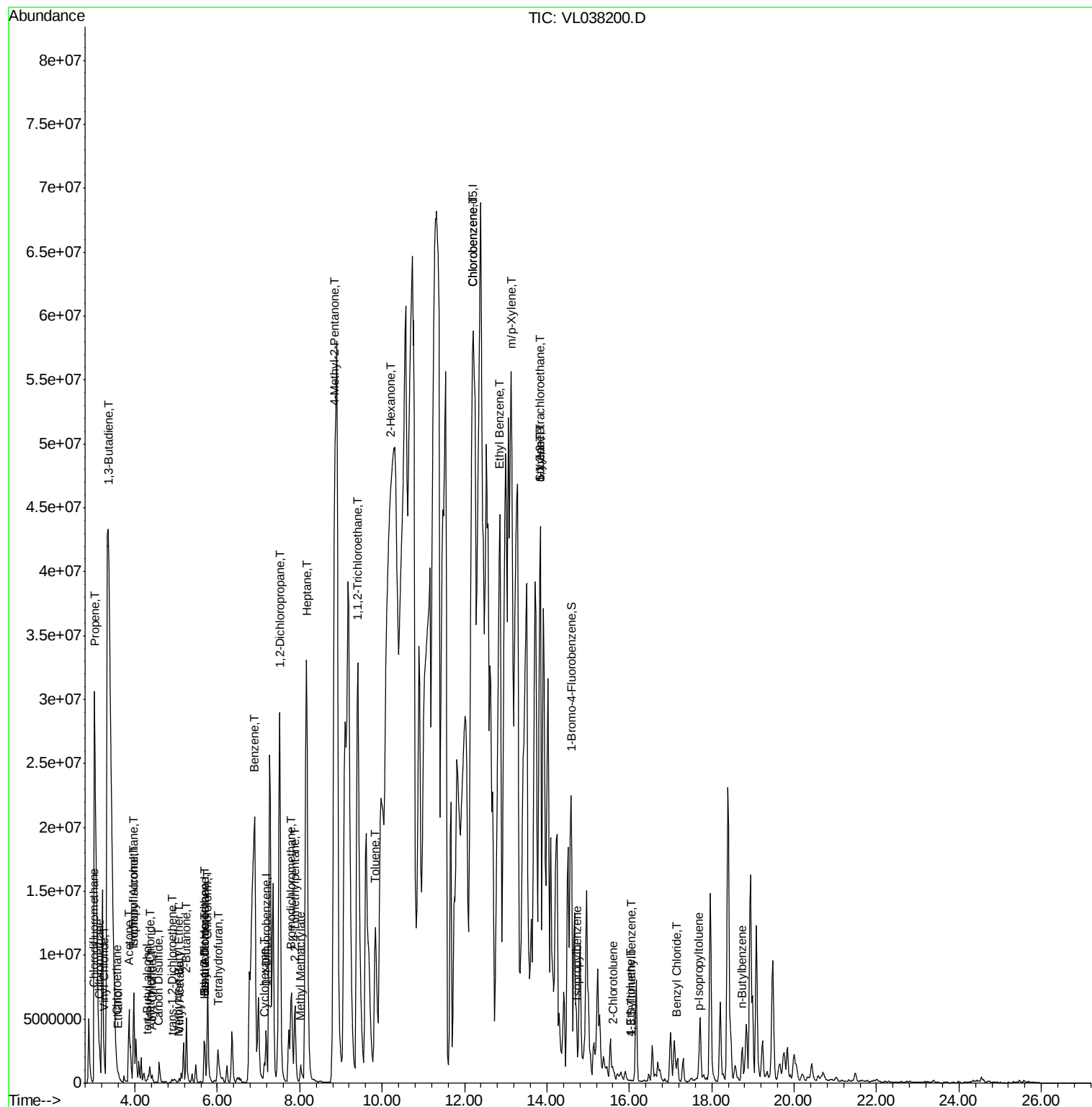
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Benzyl Chloride	17.15	91	383	0.043	ppbv #	63
69) p-Isopropyltoluene	17.68	119	413480	2.154	ppbv	97
70) n-Butylbenzene	18.72	91	12469	0.068	ppbv #	32
71) 2-Chlorotoluene	15.61	91	64408	0.441	ppbv	89
72) 4-Ethyltoluene	16.04	105	25160	0.154	ppbv #	32
73) 1,3,5-Trimethylbenzene	16.05	105	15319	0.103	ppbv	94

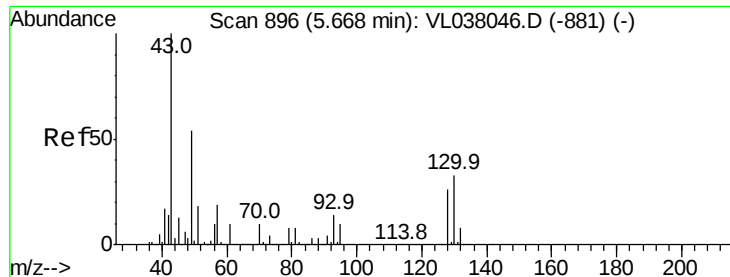
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121621\
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 22:14

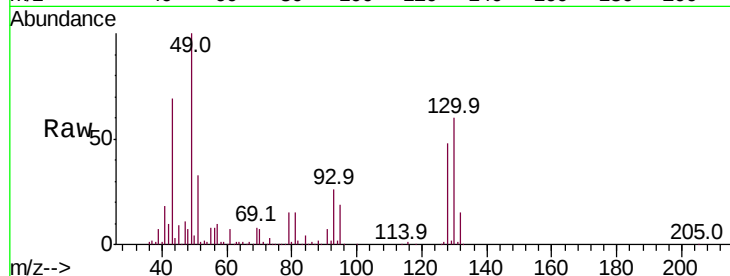
Tot Ion: 49 Resp: 1065095

Ion Ratio Lower Upper

49 100

128 48.2 26.5 79.5

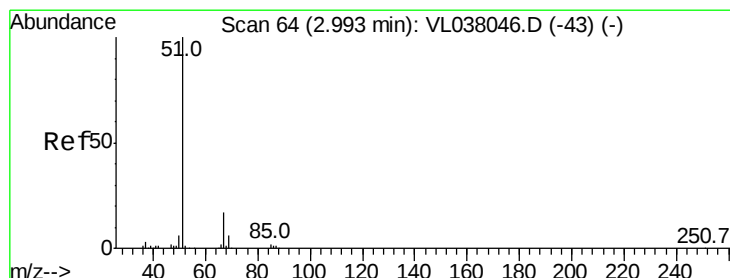
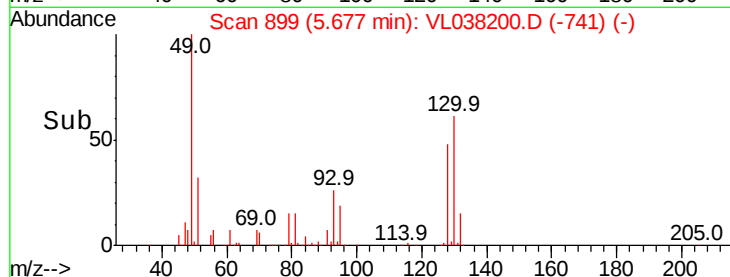
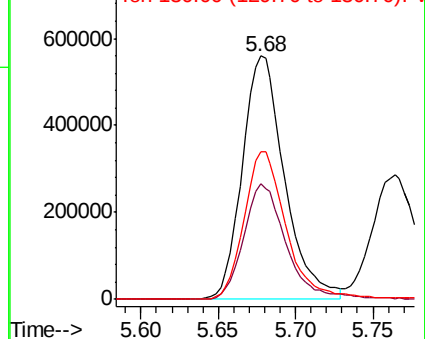
130 61.6 32.5 97.4



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: 0.360 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL038200.D

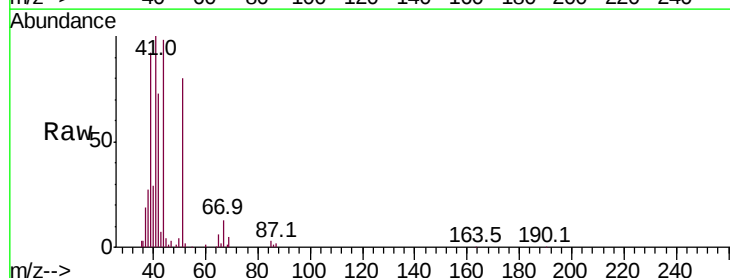
Acq: 16 Dec 2021 22:14

Tgt Ion: 51 Resp: 80535

Ion Ratio Lower Upper

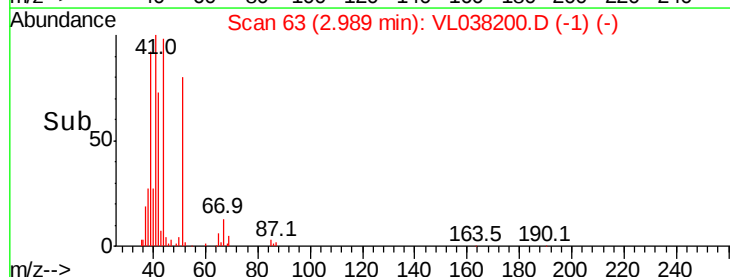
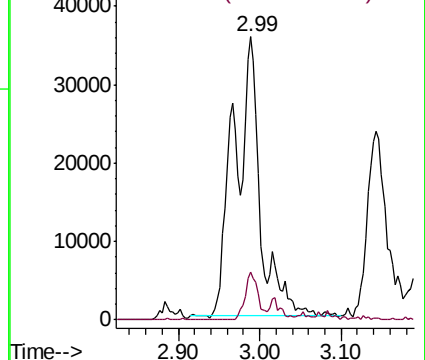
51 100

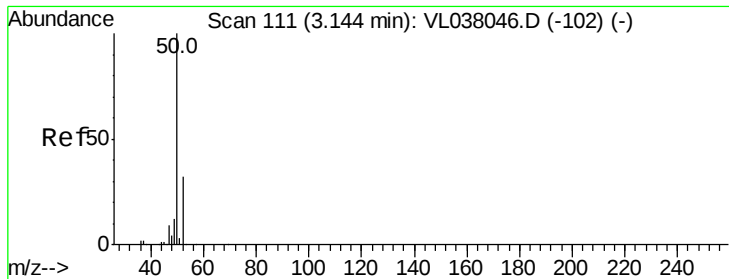
67 11.6 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 14.013 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

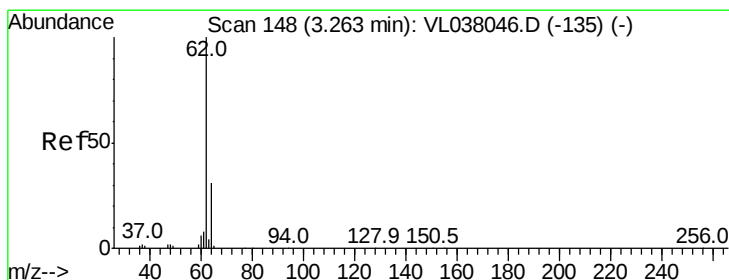
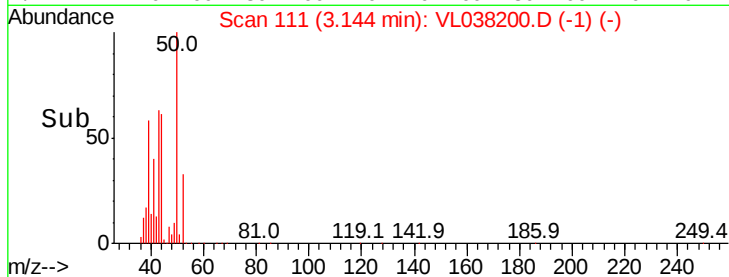
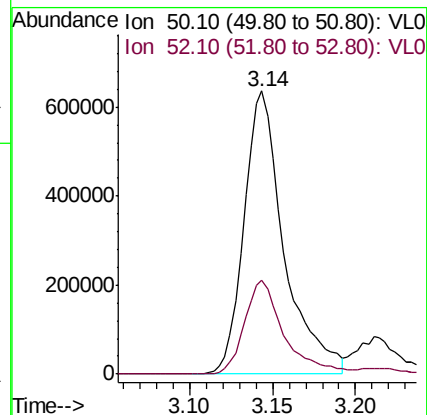
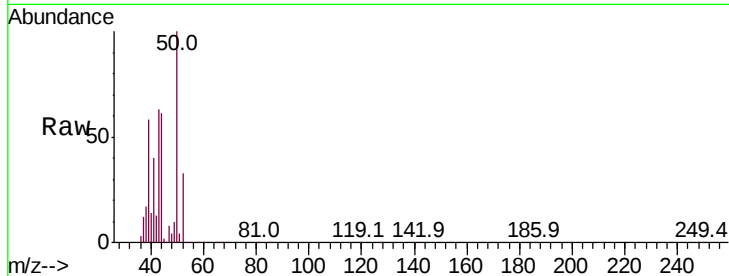
Acq: 16 Dec 2021 22:14

Tot Ion: 50 Resp: 1066977

Ion Ratio Lower Upper

50 100

52 33.2 25.4 38.0



#5

Vinyl Chloride

Concen: 3.576 ppbv

RT: 3.26 min Scan# 148

Delta R.T. -0.00 min

Lab File: VL038200.D

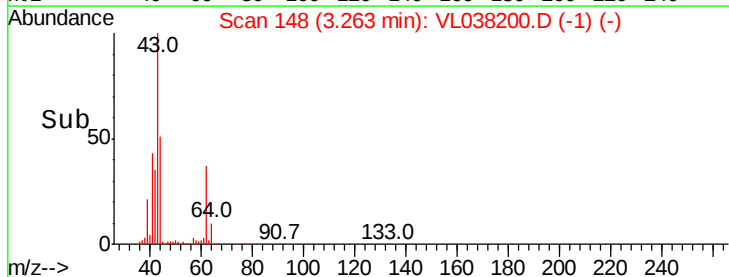
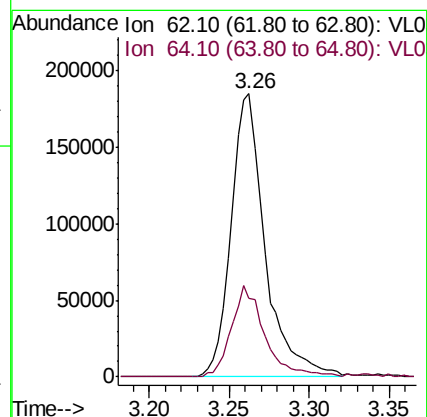
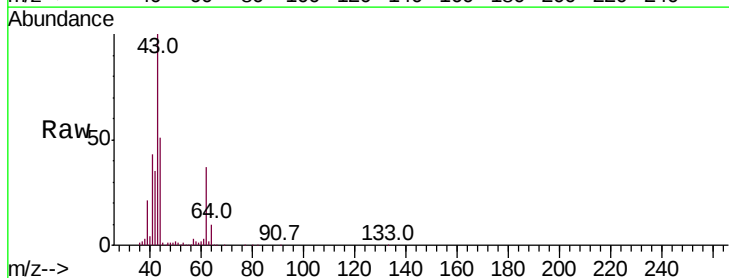
Acq: 16 Dec 2021 22:14

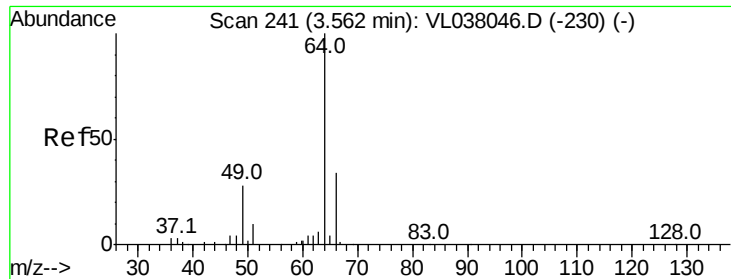
Tgt Ion: 62 Resp: 267103

Ion Ratio Lower Upper

62 100

64 27.9 25.1 37.7





#7

Chloroethane

Concen: 2.519 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

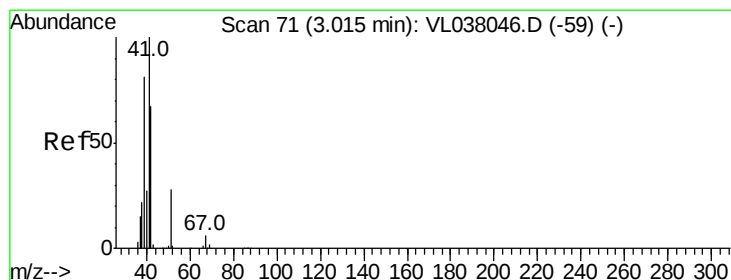
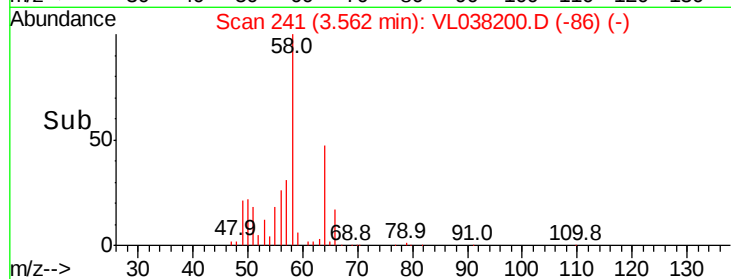
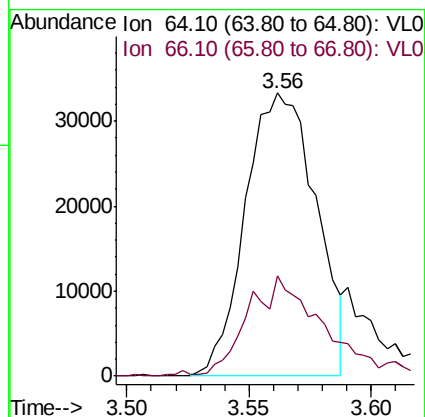
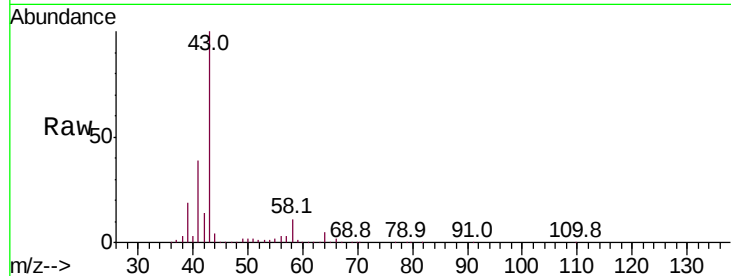
Acq: 16 Dec 2021 22:14

Tot Ion: 64 Resp: 66767

Ion Ratio Lower Upper

64 100

66 35.3 27.2 40.8



#9

Propene

Concen: 229.242 ppbv

RT: 3.01 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL038200.D

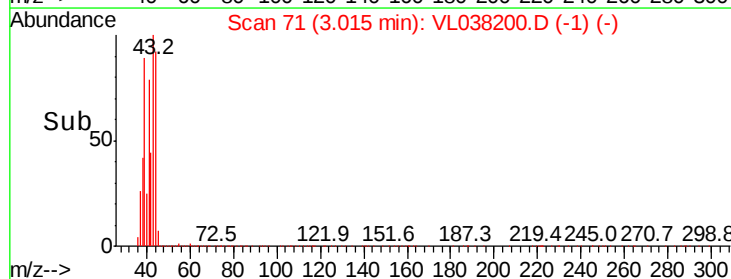
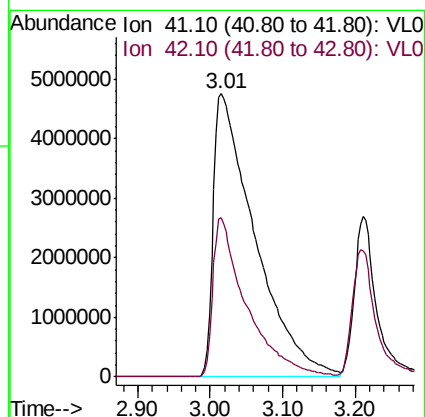
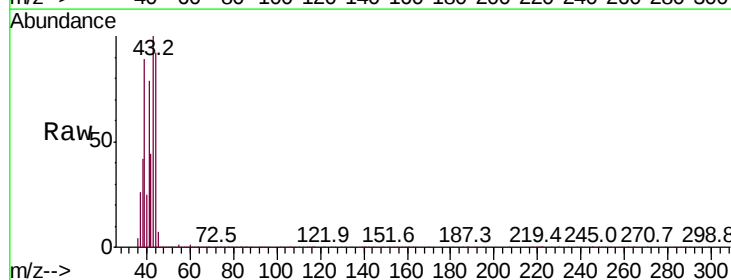
Acq: 16 Dec 2021 22:14

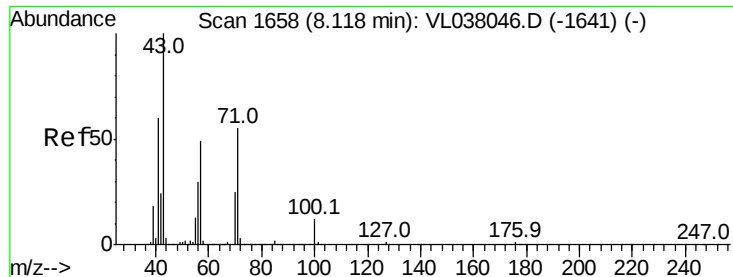
Tgt Ion: 41 Resp:18884017

Ion Ratio Lower Upper

41 100

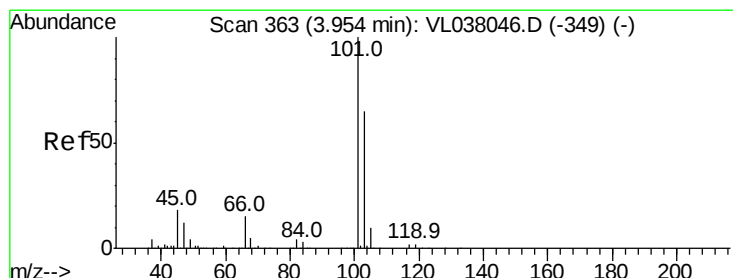
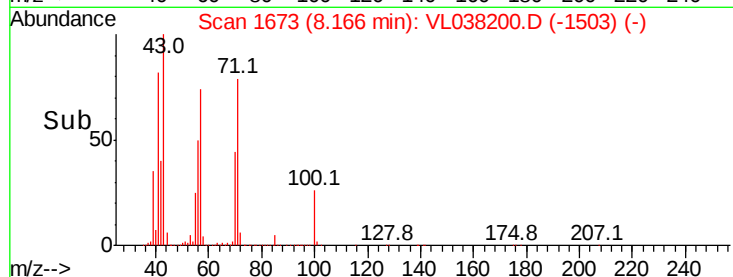
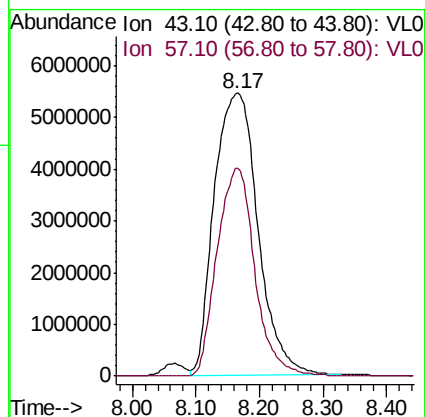
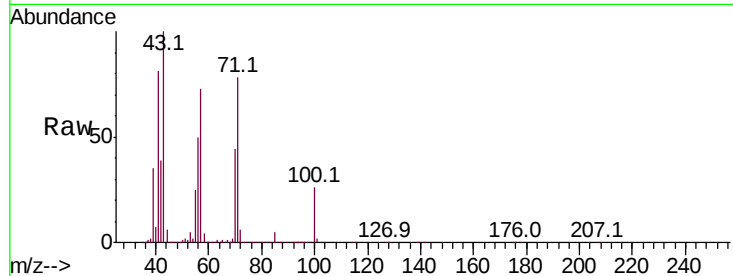
42 45.6 53.8 80.8#





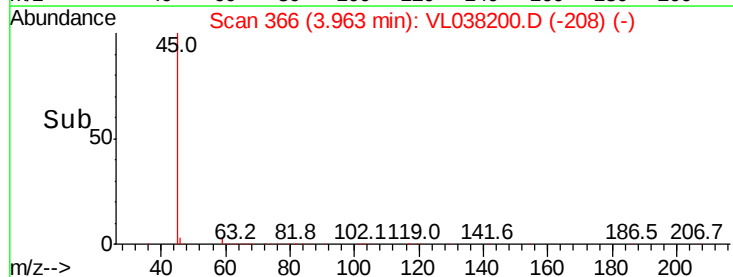
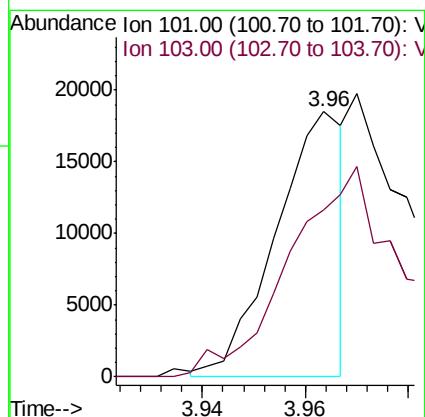
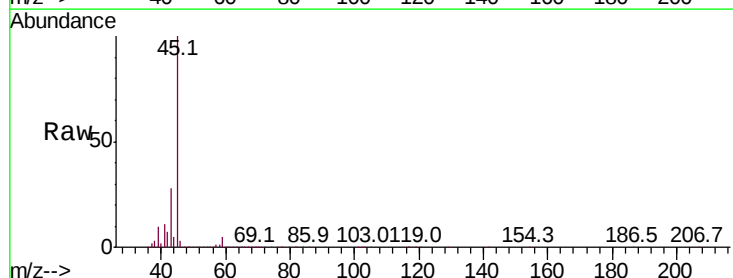
#10
 Heptane
 Concen: 127.635 ppbv
 RT: 8.17
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 16 Dec 2021 22:14

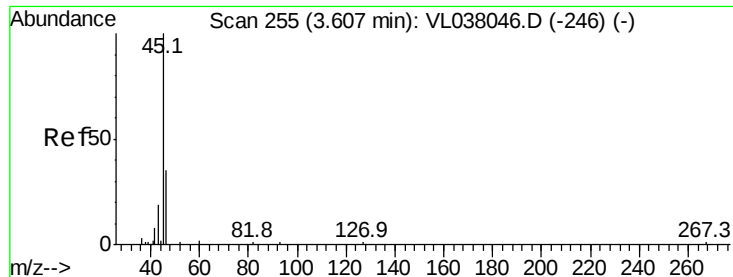
Tot Ion: 43 Resp: 25985439
 Ion Ratio Lower Upper
 43 100
 57 63.8 40.4 60.6#



#11
 Trichlorofluoromethane
 Concen: 0.101 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VL038200.D
 Acq: 16 Dec 2021 22:14

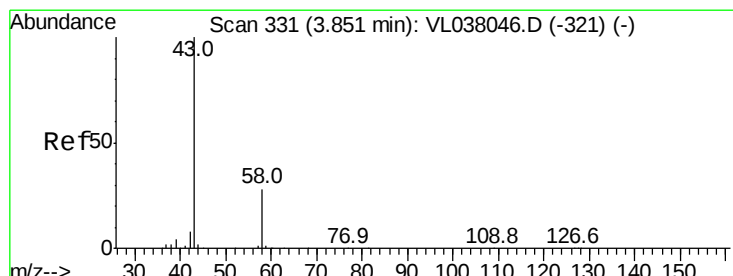
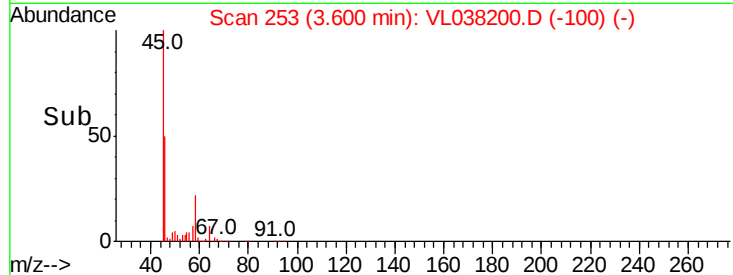
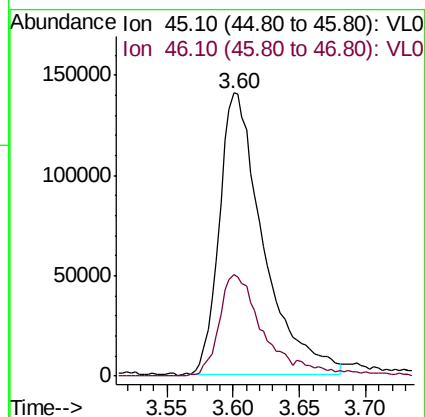
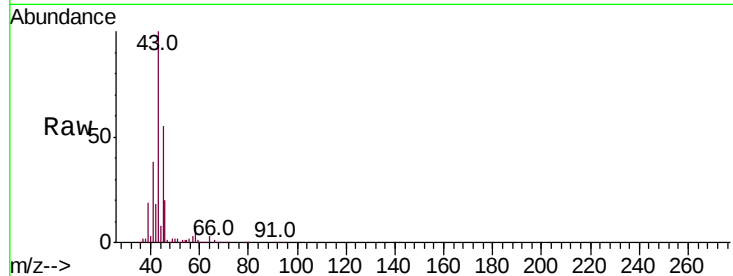
Tgt Ion: 101 Resp: 16821
 Ion Ratio Lower Upper
 101 100
 103 62.6 51.8 77.6





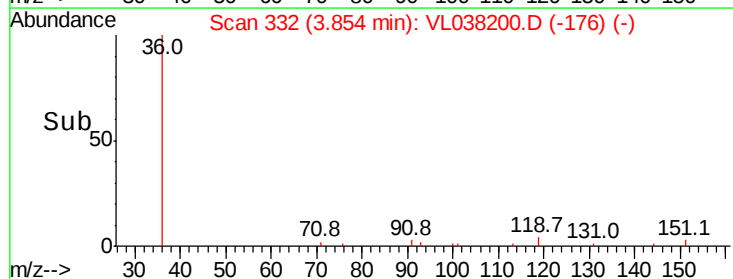
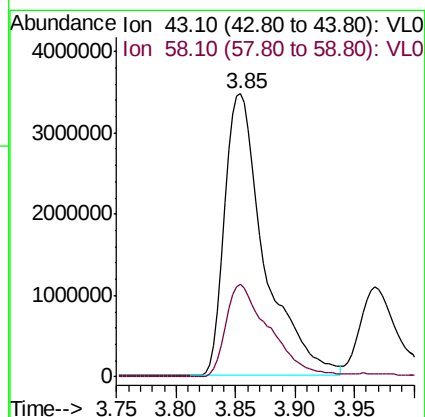
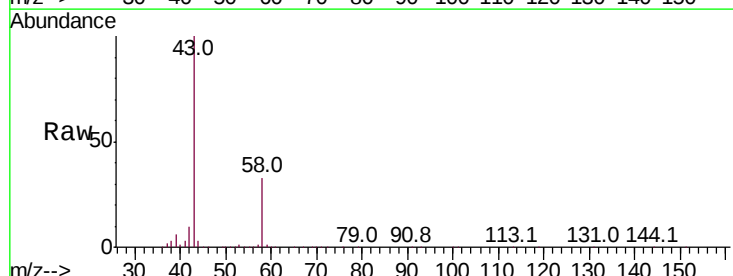
#13
Ethanol
Concen: 40.455 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Dec 2021 22:14

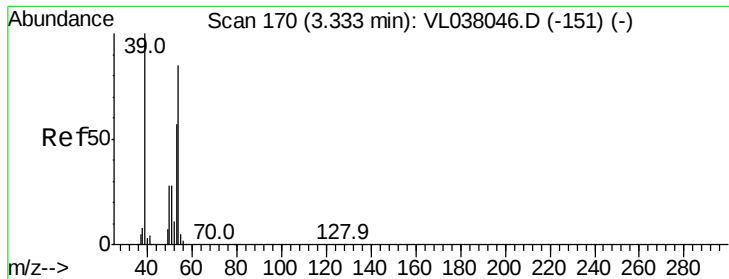
Tot Ion: 45 Resp: 322042
Ion Ratio Lower Upper
45 100
46 38.3 17.6 70.2



#15
Acetone
Concen: 87.090 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.00 min
Lab File: VL038200.D
Acq: 16 Dec 2021 22:14

Tgt Ion: 43 Resp: 8042329
Ion Ratio Lower Upper
43 100
58 36.2 22.4 33.6#





#16

1,3-Butadiene

Concen: 465.061 ppbv

RT: 3.34 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

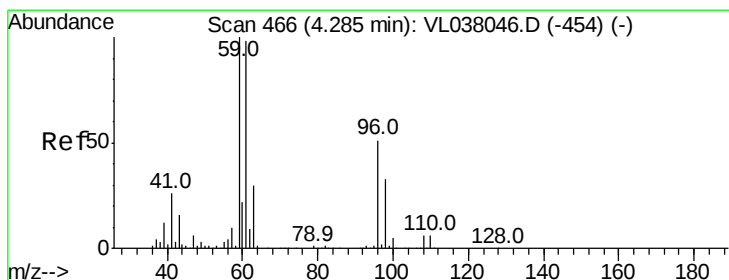
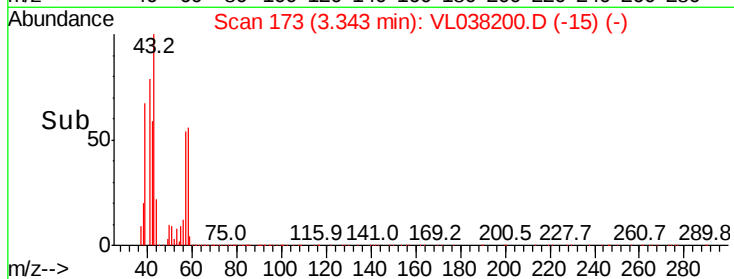
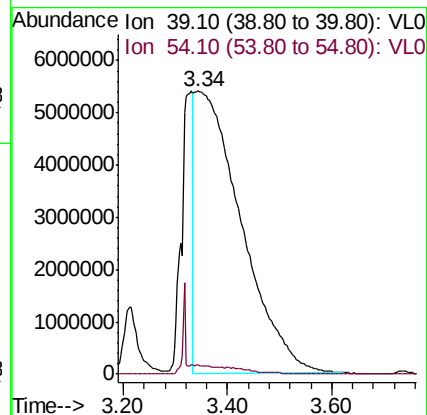
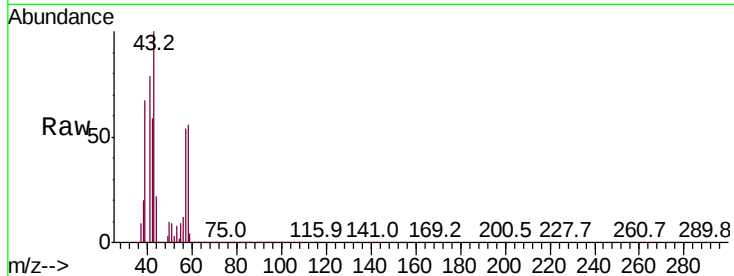
Acq: 16 Dec 2021 22:14

Tot Ion: 39 Resp: 33504639

Ion Ratio Lower Upper

39 100

54 0.0 64.4 96.6#



#17

tert-Butyl alcohol

Concen: 1.098 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.01 min

Lab File: VL038200.D

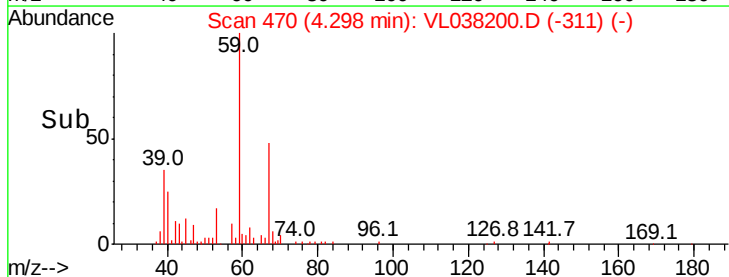
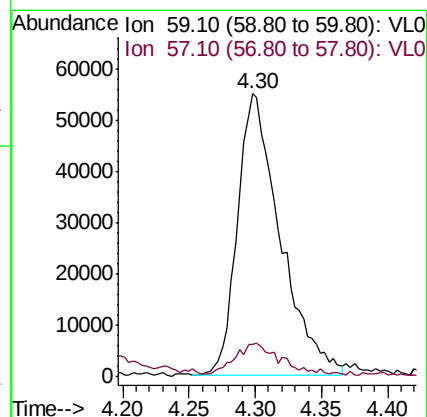
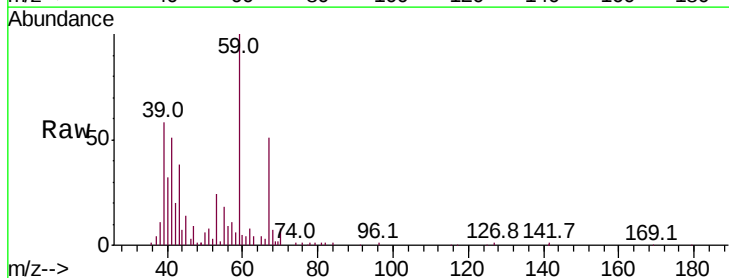
Acq: 16 Dec 2021 22:14

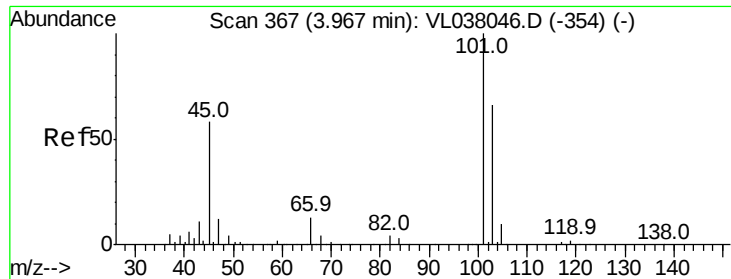
Tgt Ion: 59 Resp: 123012

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 141.520 ppbv

RT: 3.97

Delta R.T. MSVOA_L

Lab File:

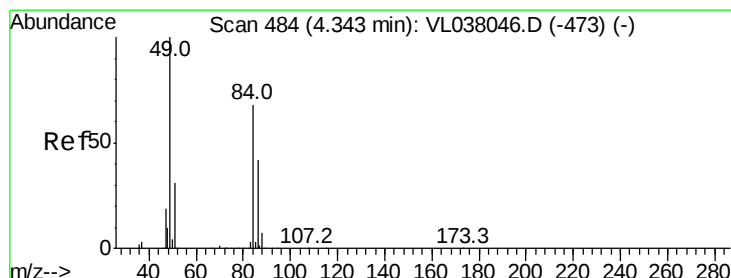
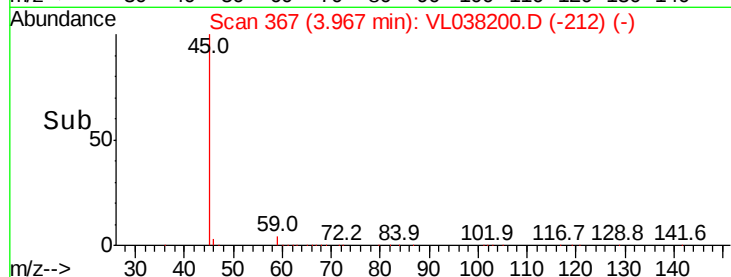
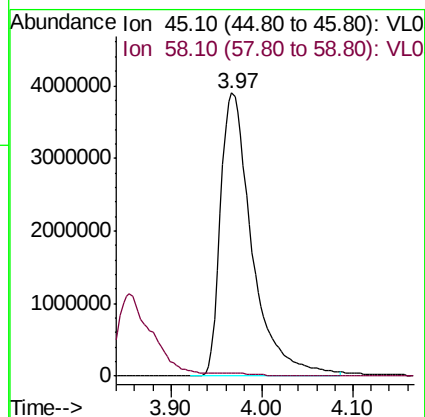
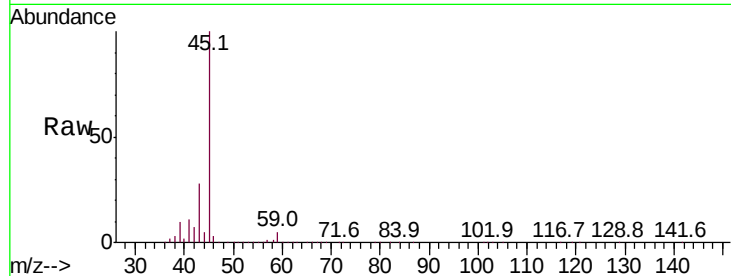
Acq: 16 Dec 2021 22:14

Tot Ion: 45 Resp: 9442681

Ion Ratio Lower Upper

45 100

58 1.5 1.4 2.0



#20

Methylene Chloride

Concen: 9.097 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.02 min

Lab File: VL038200.D

Acq: 16 Dec 2021 22:14

Tgt Ion: 84 Resp: 470563

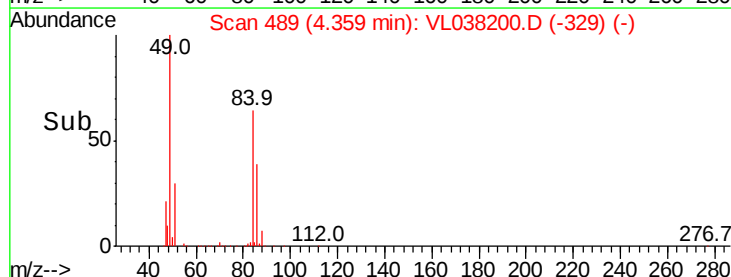
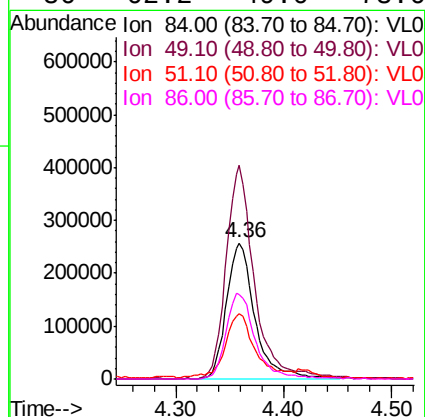
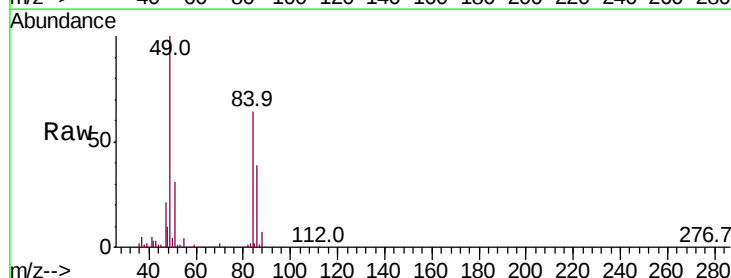
Ion Ratio Lower Upper

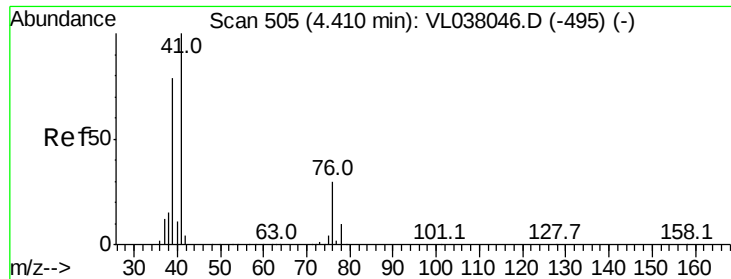
84 100

49 157.3 118.2 177.2

51 47.5 36.8 55.2

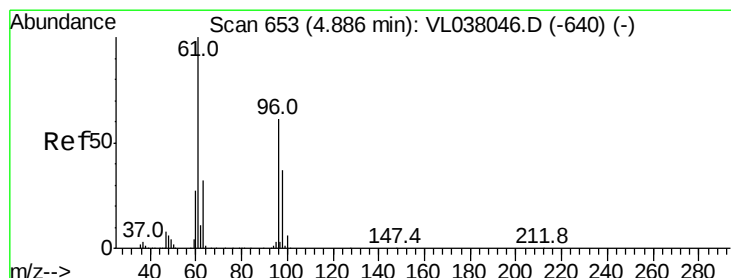
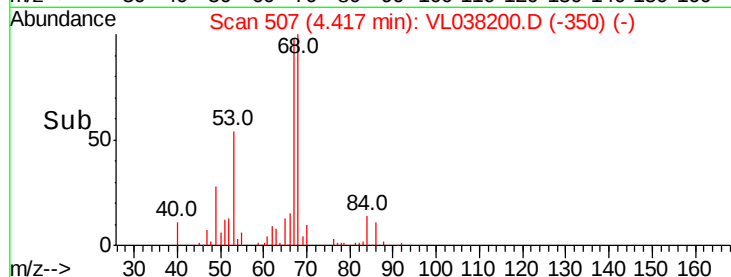
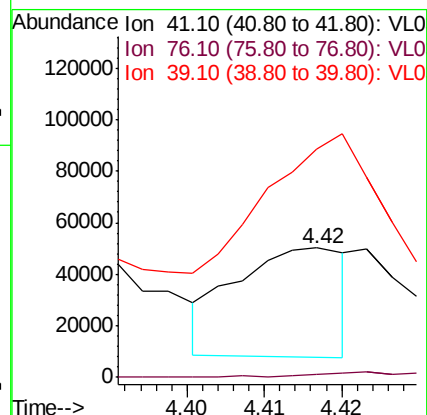
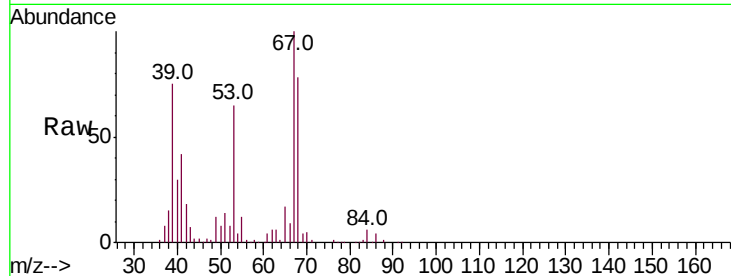
86 62.2 49.0 73.6





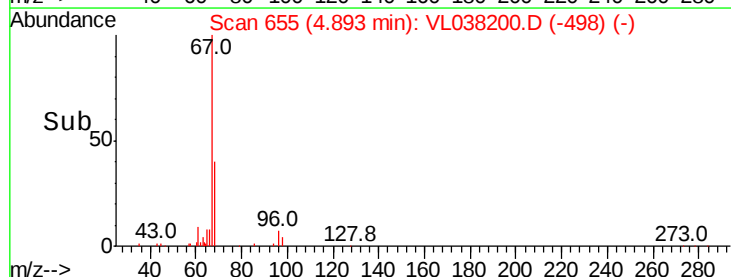
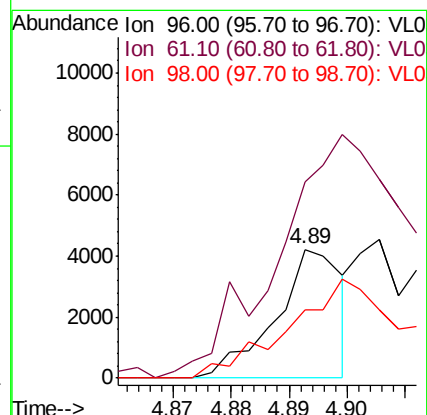
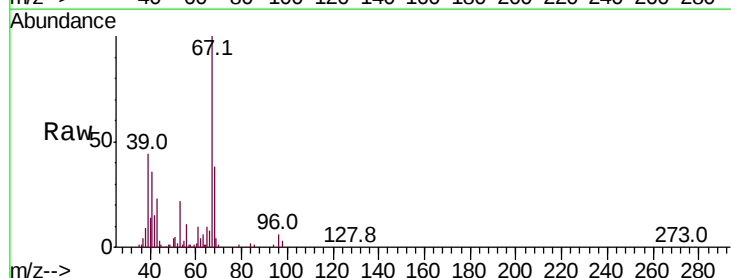
#21
Allvl Chloride
Concen: 0.489 ppbv
RT: 4.42
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Dec 2021 22:14

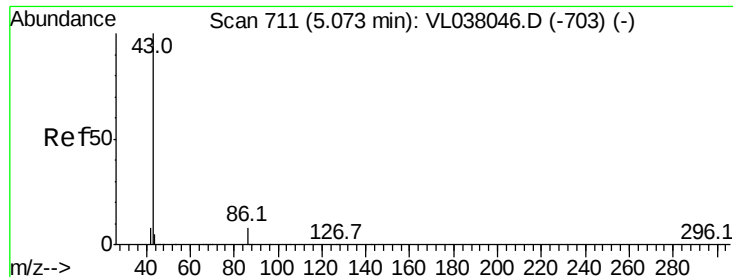
Tot Ion: 41 Resp: 41821
Ion Ratio Lower Upper
41 100
76 0.0 24.6 36.8#
39 0.0 63.4 95.0#



#22
trans-1,2-Dichloroethene
Concen: 0.061 ppbv
RT: 4.89 min Scan# 655
Delta R.T. 0.01 min
Lab File: VL038200.D
Acq: 16 Dec 2021 22:14

Tgt Ion: 96 Resp: 3361
Ion Ratio Lower Upper
96 100
61 138.8 131.6 197.4
98 52.6 48.4 72.6





#23

Vinyl Acetate

Concen: 0.851 ppbv

RT: 5.07 Instrument:

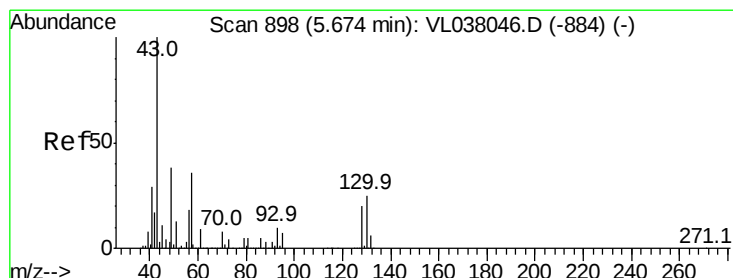
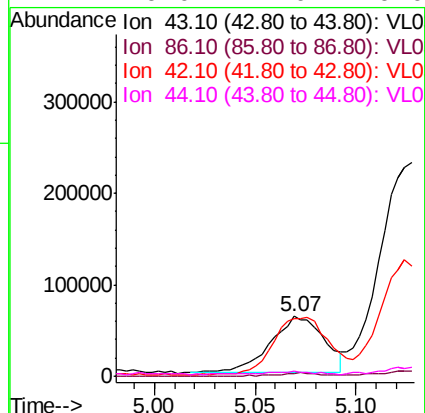
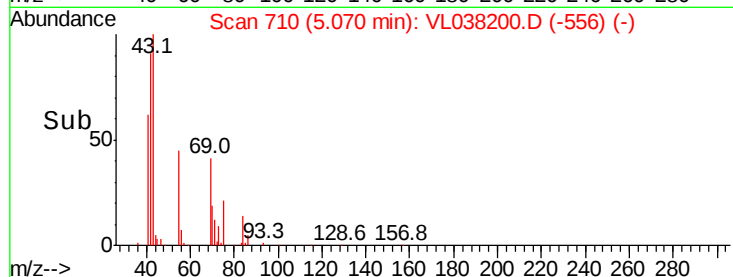
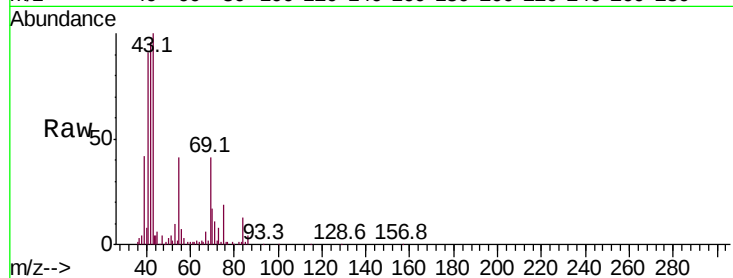
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 22:14

Tot Ion: 43 Resp: 113799

Ion	Ratio	Lower	Upper
43	100		
86	4.6	5.3	7.9#
42	98.7	7.0	10.6#
44	6.0	4.0	6.0



#25

Ethyl Acetate

Concen: 2.022 ppbv

RT: 5.68 min Scan# 901

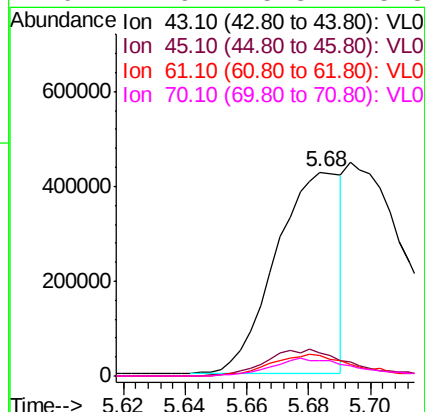
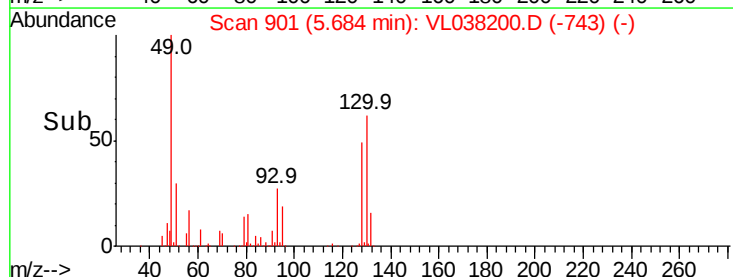
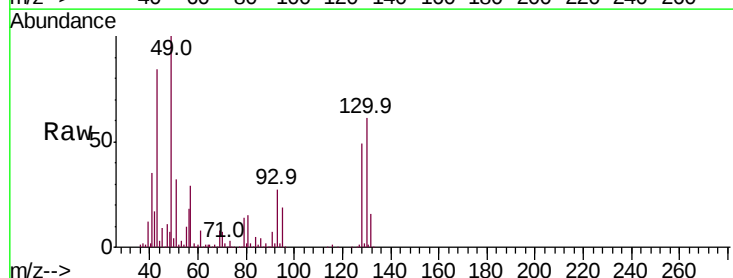
Delta R.T. 0.01 min

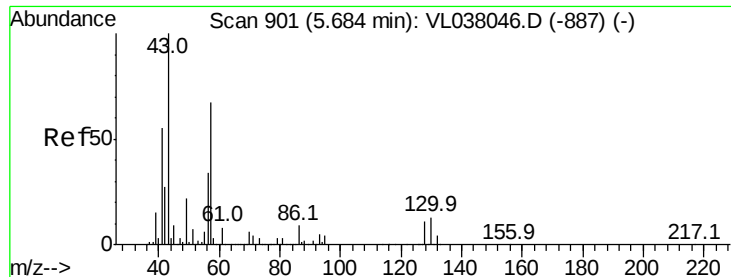
Lab File: VL038200.D

Acq: 16 Dec 2021 22:14

Tgt Ion: 43 Resp: 620584

Ion	Ratio	Lower	Upper
43	100		
45	17.1	7.9	11.9#
61	13.9	7.8	11.6#
70	11.6	5.8	8.8#





#26

Hexane

Concen: 5.811 ppbv

RT: 5.70 Instrument:

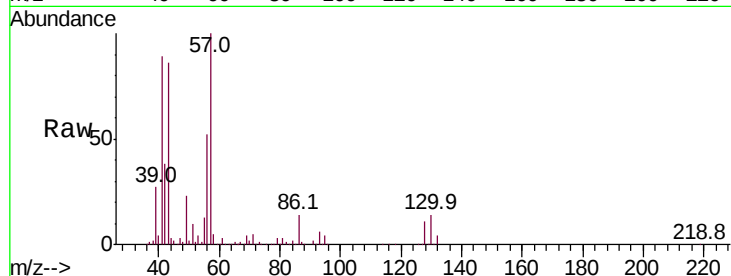
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

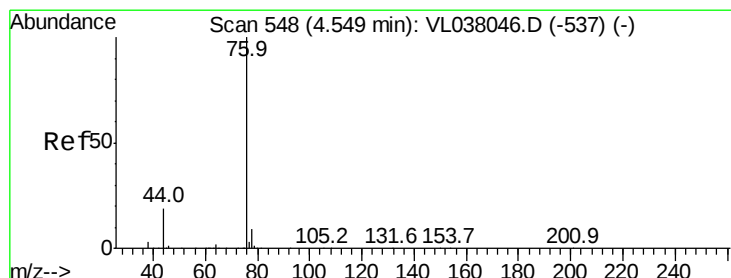
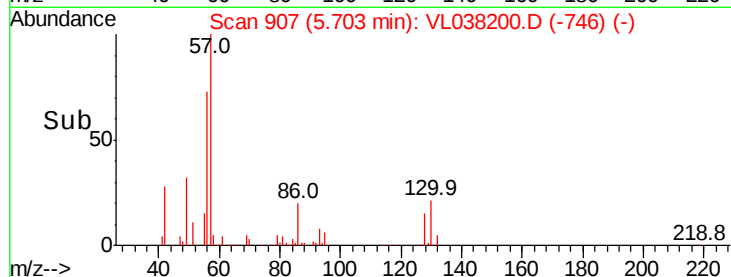
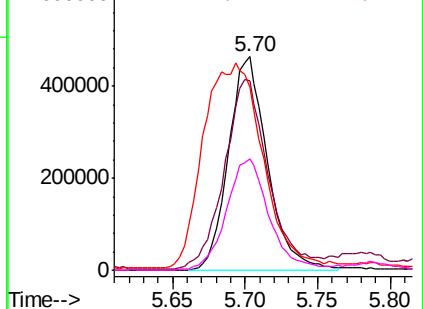
Acq: 16 Dec 2021 22:14

Tot Ion: 57 Resp: 859687

Ion	Ratio	Lower	Upper
57	100		
41	101.4	71.4	107.2
43	154.3	174.6	261.8#
56	57.6	43.2	64.8



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



#27

Carbon Disulfide

Concen: 1.136 ppbv

RT: 4.57 min Scan# 554

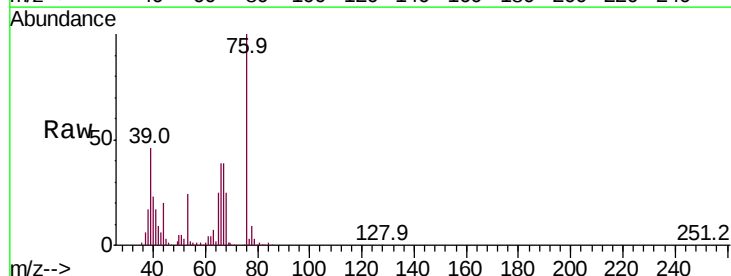
Delta R.T. 0.02 min

Lab File: VL038200.D

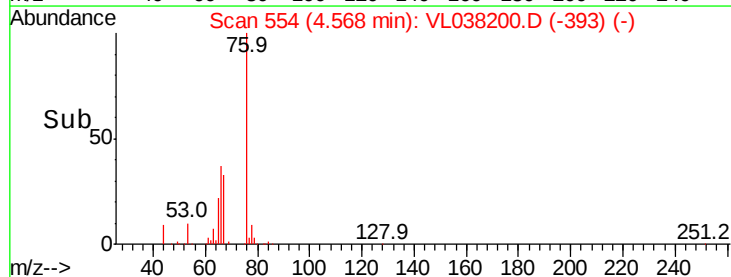
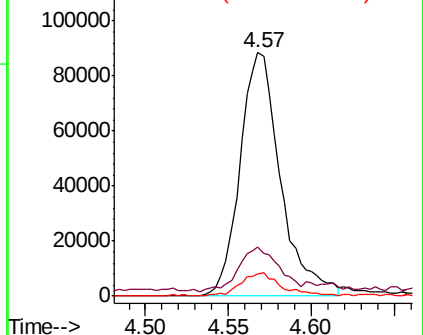
Acq: 16 Dec 2021 22:14

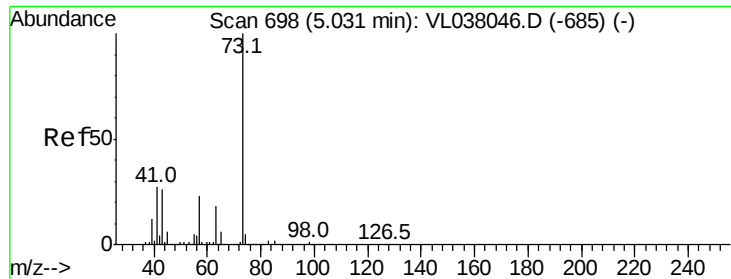
Tgt Ion: 76 Resp: 150557

Ion	Ratio	Lower	Upper
76	100		
44	19.9	14.9	22.3
78	10.0	7.6	11.4



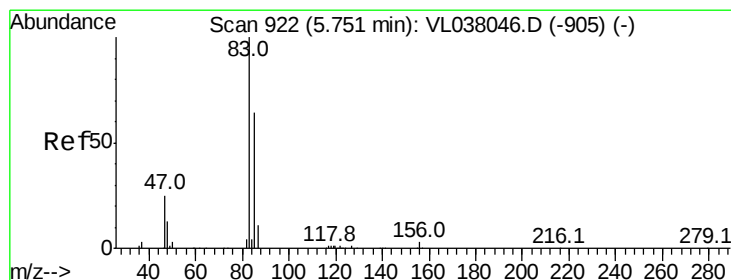
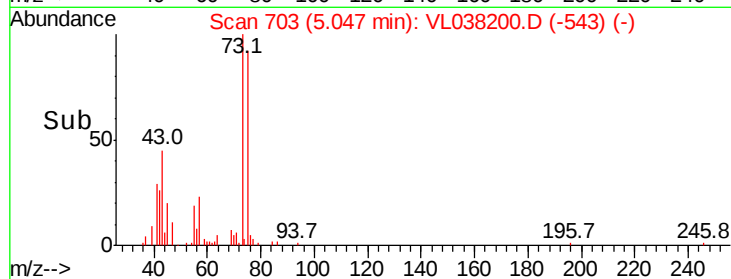
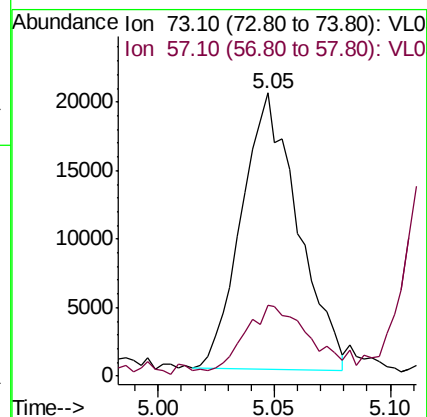
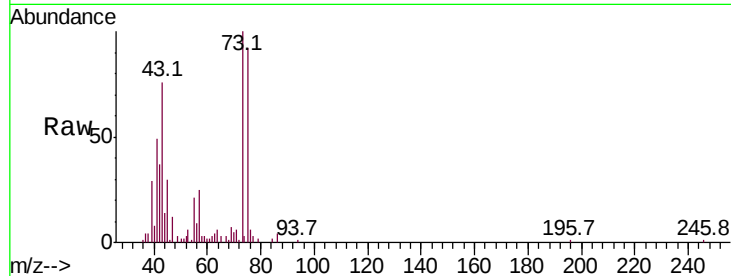
Abundance Ion 76.00 (75.70 to 76.70): VL0
 Ion 44.10 (43.80 to 44.80): VL0
 Ion 78.00 (77.70 to 78.70): VL0





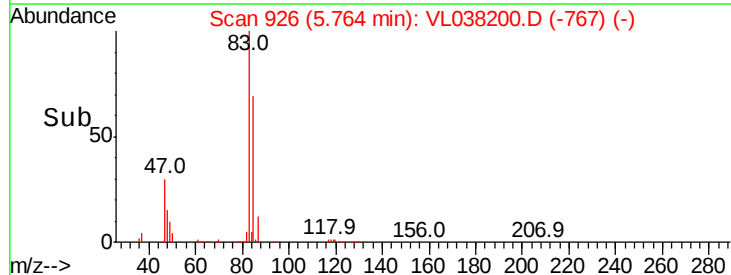
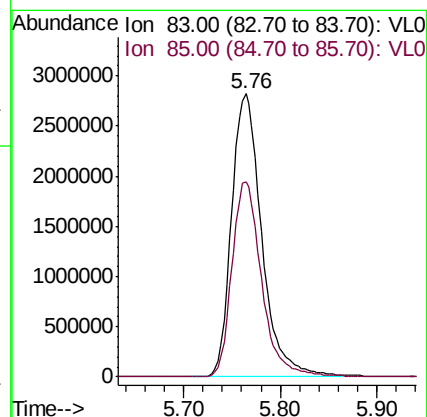
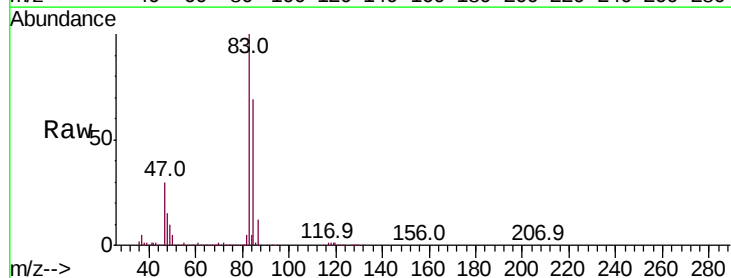
#28
Methvl tert-Butvl Ether
Concen: 0.271 ppbv
RT: 5.05
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Dec 2021 22:14

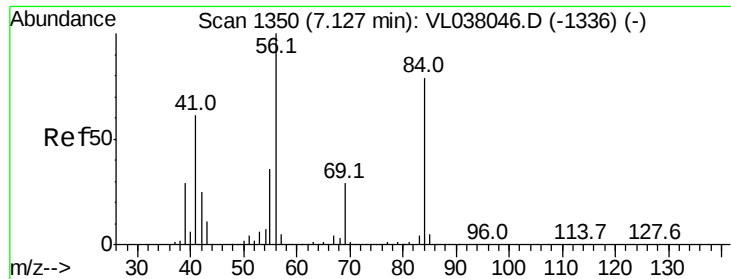
Tot Ion: 73 Resp: 34079
Ion Ratio Lower Upper
73 100
57 144.2 19.0 28.4#



#29
Chloroform
Concen: 28.083 ppbv
RT: 5.76 min Scan# 926
Delta R.T. 0.01 min
Lab File: VL038200.D
Acq: 16 Dec 2021 22:14

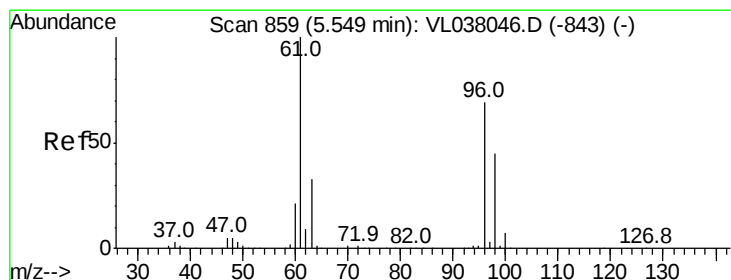
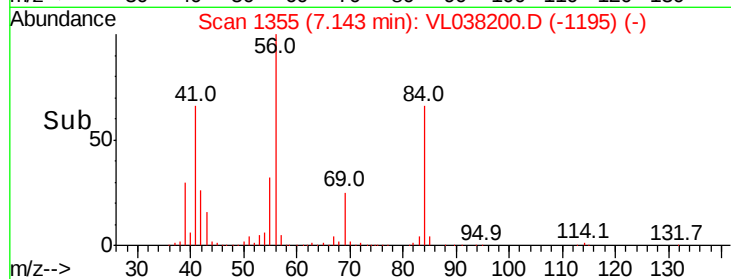
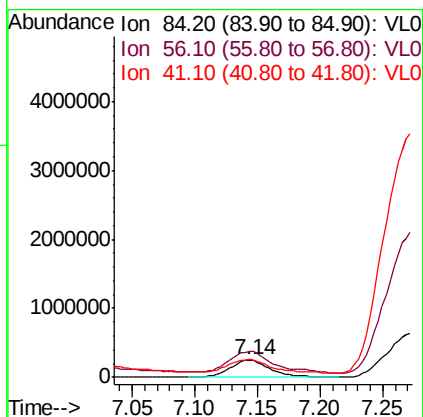
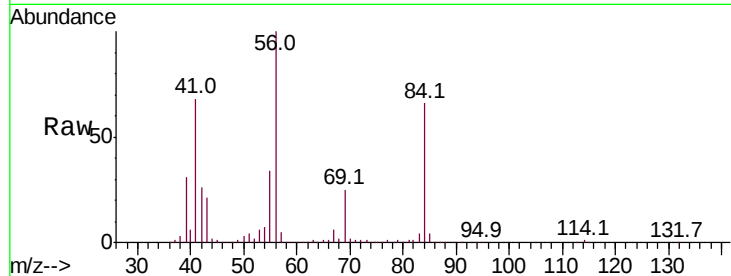
Tgt Ion: 83 Resp: 6122604
Ion Ratio Lower Upper
83 100
85 68.7 51.0 76.6





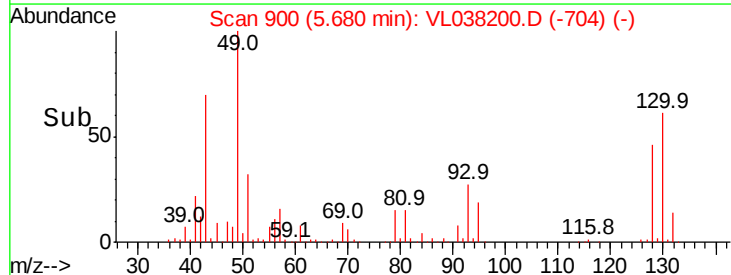
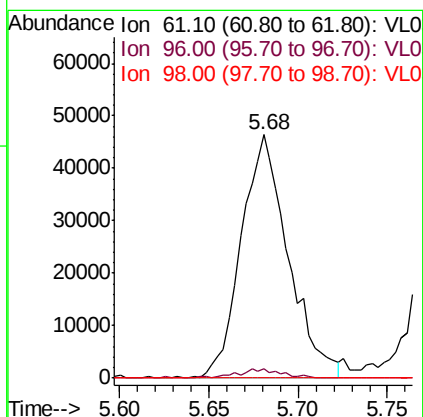
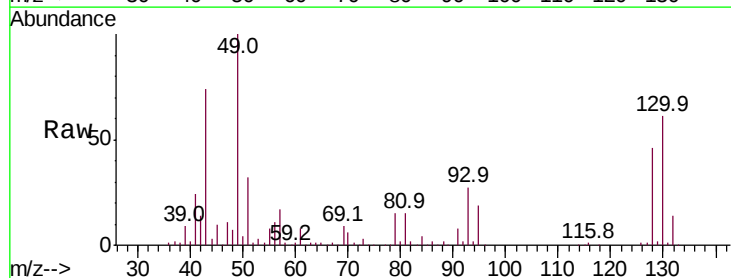
#30
Cvclohexane
Concen: 4.127 ppbv
RT: 7.14
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Dec 2021 22:14

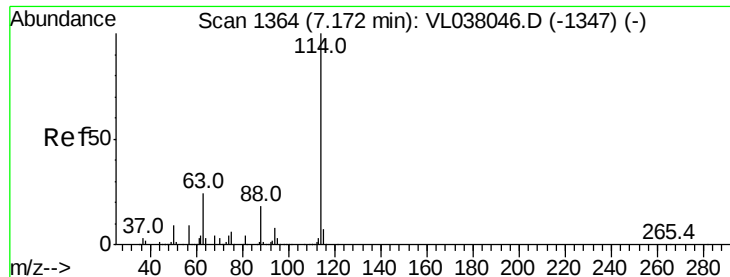
Tot Ion: 84 Resp: 554271
Ion Ratio Lower Upper
84 100
56 0.0 108.1 162.1#
41 380.2 64.4 96.6#



#31
cis-1,2-Dichloroethene
Concen: 0.605 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.13 min
Lab File: VL038200.D
Acq: 16 Dec 2021 22:14

Tgt Ion: 61 Resp: 85162
Ion Ratio Lower Upper
61 100
96 3.8 55.4 83.2#
98 0.0 35.7 53.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 22:14

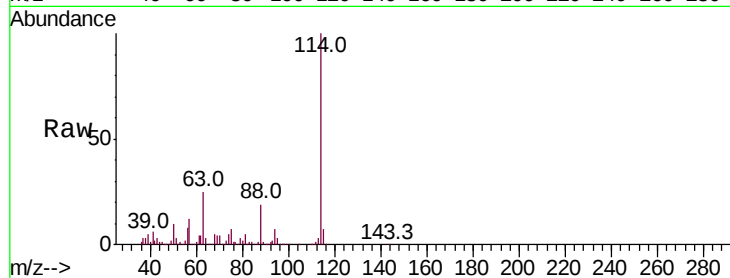
Tot Ion:114 Resp: 2998775

Ion Ratio Lower Upper

114 100

63 25.4 19.7 29.5

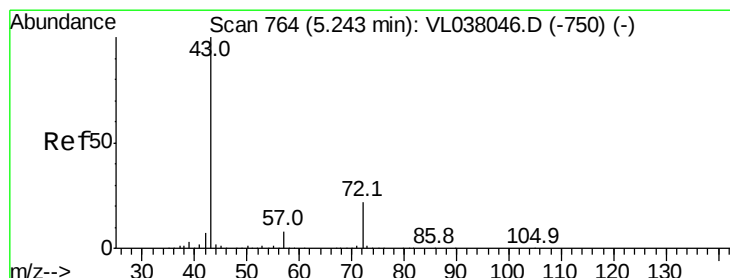
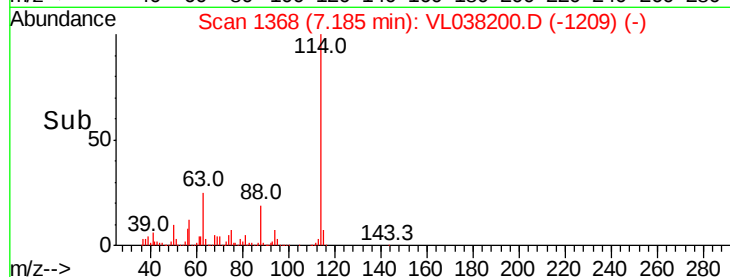
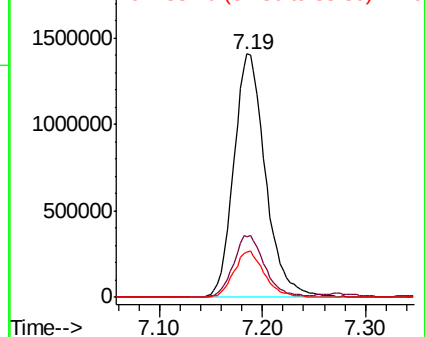
88 18.5 14.4 21.6



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: 53.208 ppbv

RT: 5.25 min Scan# 765

Delta R.T. 0.00 min

Lab File: VL038200.D

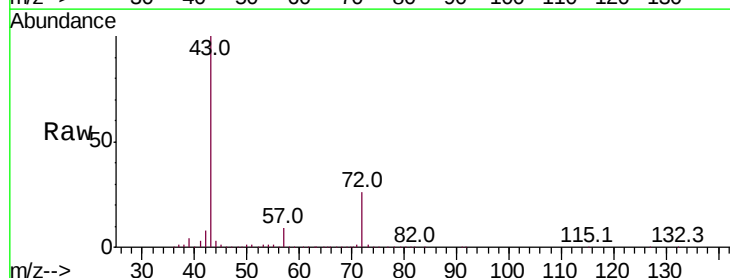
Acq: 16 Dec 2021 22:14

Tgt Ion: 43 Resp: 6433814

Ion Ratio Lower Upper

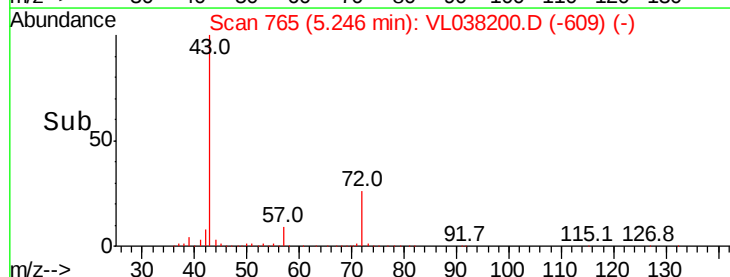
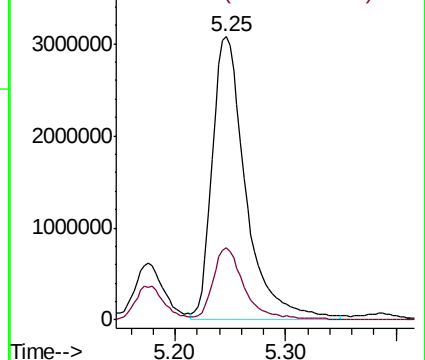
43 100

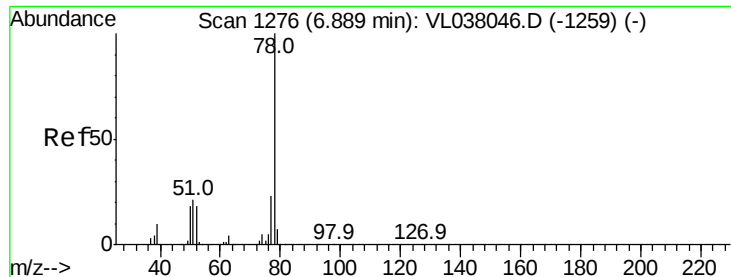
72 24.6 18.8 28.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

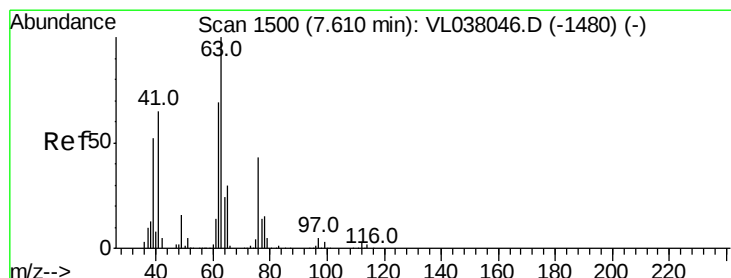
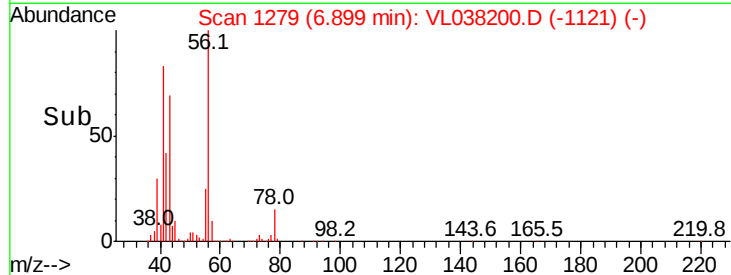
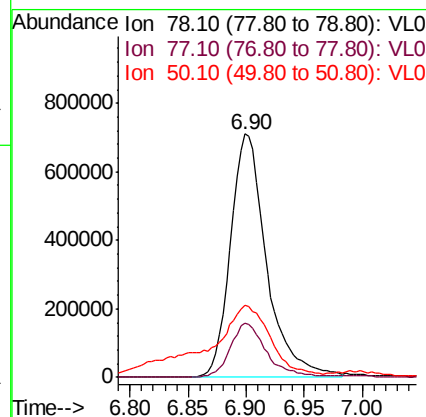
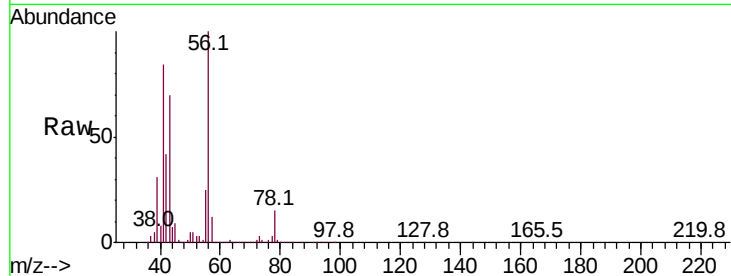




#36
Benzene
Concen: 5.111 ppbv
RT: 6.90
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Dec 2021 22:14

Tot Ion: 78 Resp: 1528892

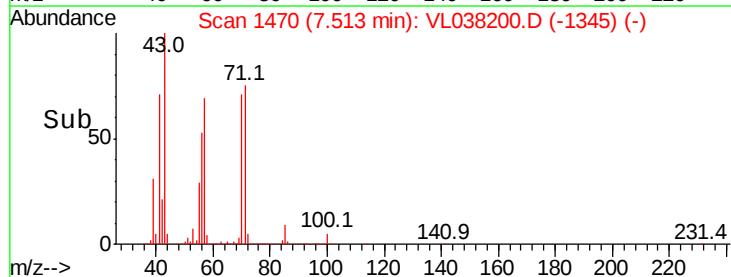
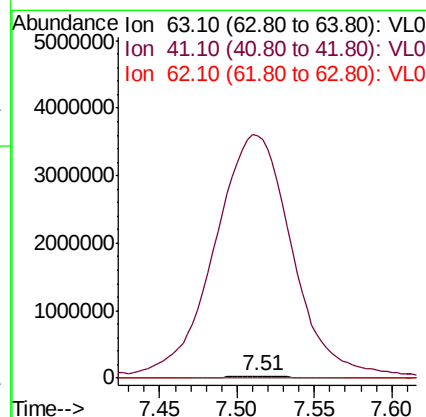
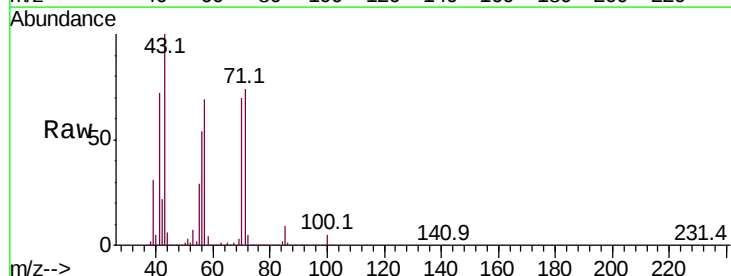
Ion	Ratio	Lower	Upper
78	100		
77	21.9	18.2	27.4
50	27.9	14.7	22.1#

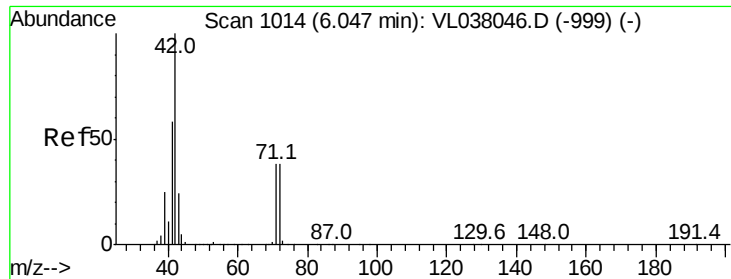


#39
1,2-Dichloropropane
Concen: 0.593 ppbv
RT: 7.51 min Scan# 1470
Delta R.T. -0.10 min
Lab File: VL038200.D
Acq: 16 Dec 2021 22:14

Tgt Ion: 63 Resp: 68045

Ion	Ratio	Lower	Upper
63	100		
41	13439.0	52.3	78.5#
62	48.9	55.1	82.7#

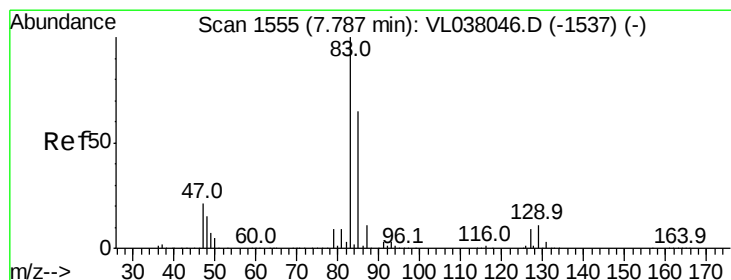
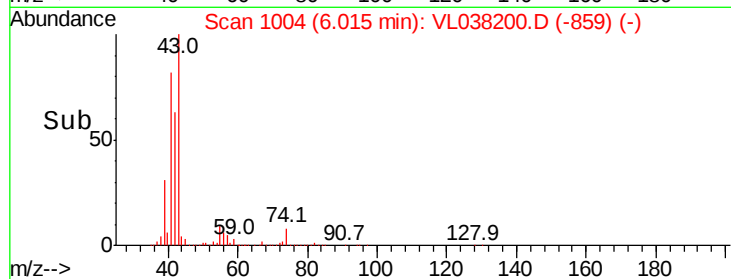
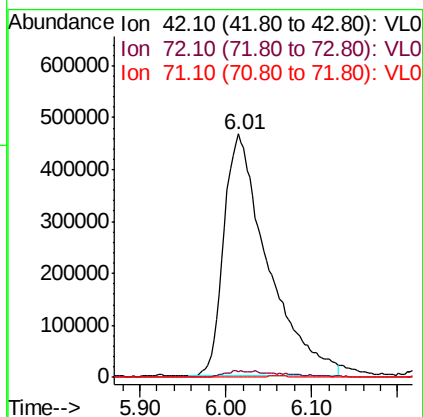
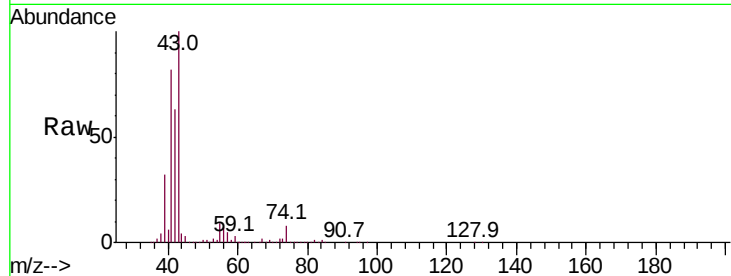




#41
Tetrahydrofuran
Concen: 22.049 ppbv
RT: 6.01 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Dec 2021 22:14

Tot Ion: 42 Resp: 1655070

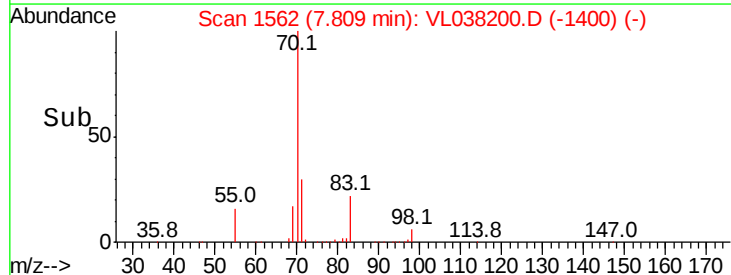
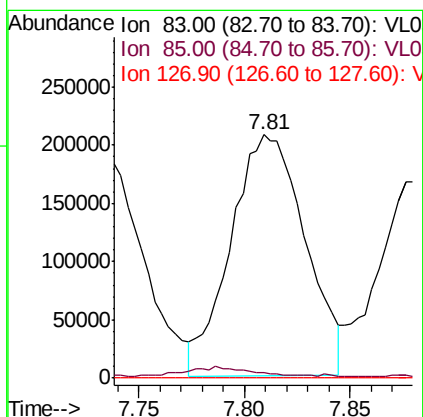
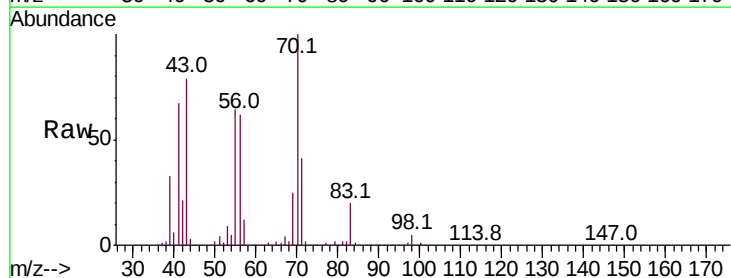
Ion	Ratio	Lower	Upper
42	100		
72	3.6	31.7	47.5#
71	0.6	30.6	46.0#

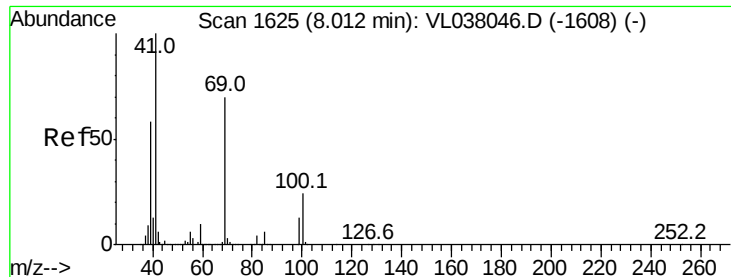


#42
Bromodichloromethane
Concen: 2.315 ppbv
RT: 7.81 min Scan# 1562
Delta R.T.: 0.02 min
Lab File: VL038200.D
Acq: 16 Dec 2021 22:14

Tgt Ion: 83 Resp: 508363

Ion	Ratio	Lower	Upper
83	100		
85	1.6	51.9	77.9#
127	0.0	6.8	10.2#





#43

Methyl Methacrylate

Concen: 6.018 ppbv

RT: 8.02 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 16 Dec 2021 22:14

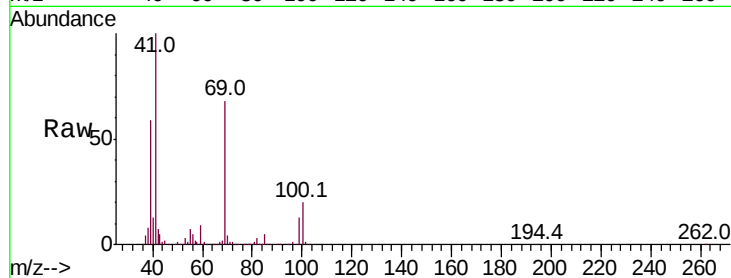
Tot Ion: 69 Resp: 615831

Ion Ratio Lower Upper

69 100

41 154.5 116.7 175.1

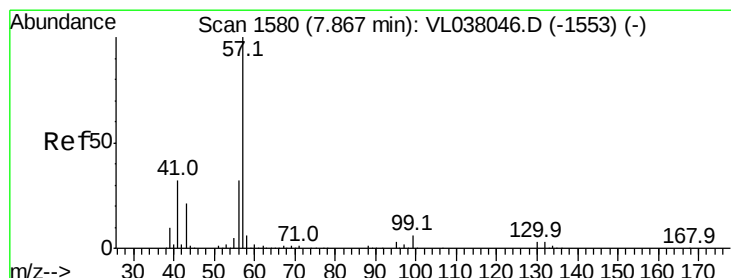
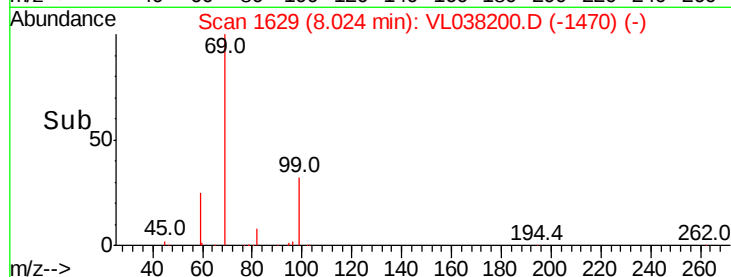
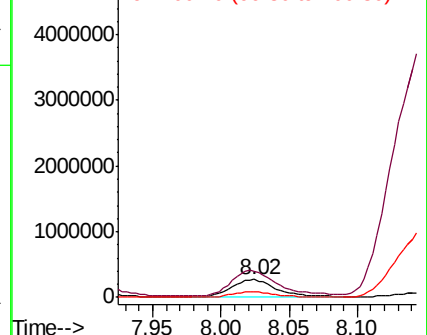
100 30.8 27.3 40.9



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 2.591 ppbv

RT: 7.89 min Scan# 1586

Delta R.T. 0.02 min

Lab File: VL038200.D

Acq: 16 Dec 2021 22:14

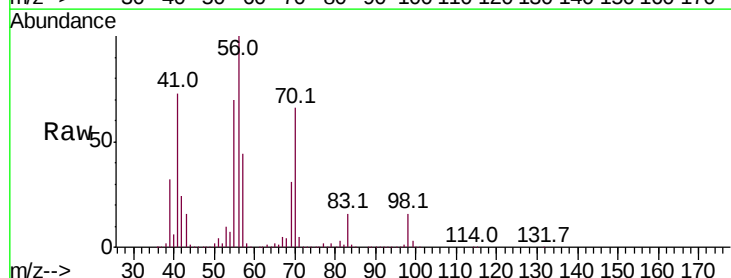
Tgt Ion: 57 Resp: 1296511

Ion Ratio Lower Upper

57 100

41 165.6 25.8 38.6#

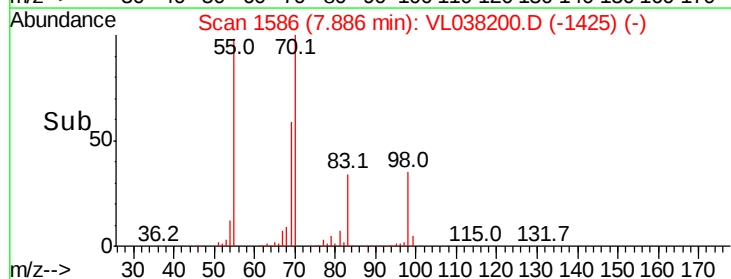
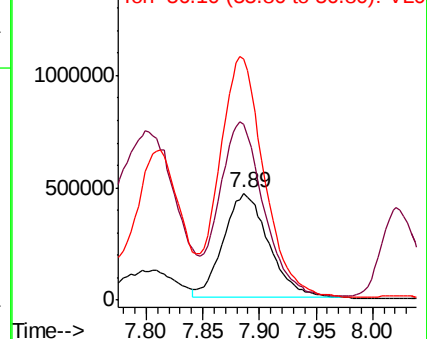
56 226.5 25.6 38.4#

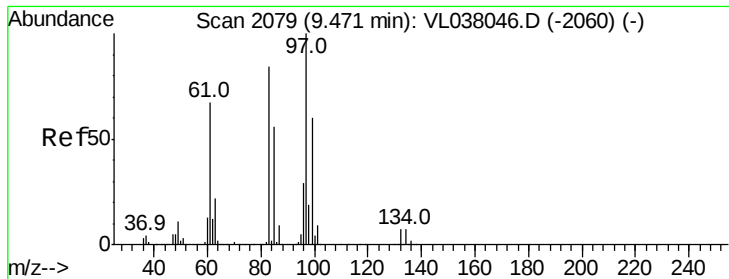


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#47

1,1,2-Trichloroethane

Concen: 7.386 ppbv

RT: 9.40 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 22:14

Tot Ion: 97 Resp: 887569

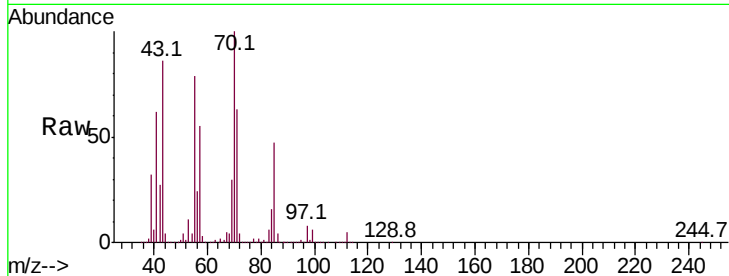
Ion Ratio Lower Upper

97 100

83 63.9 66.8 100.2#

85 505.7 44.9 67.3#

99 63.7 48.0 72.0

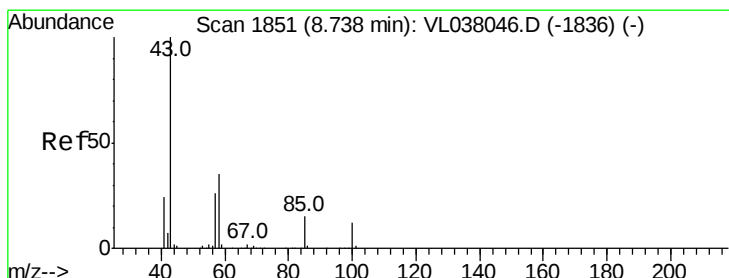
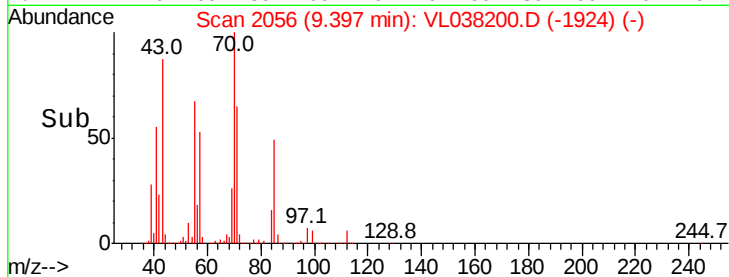
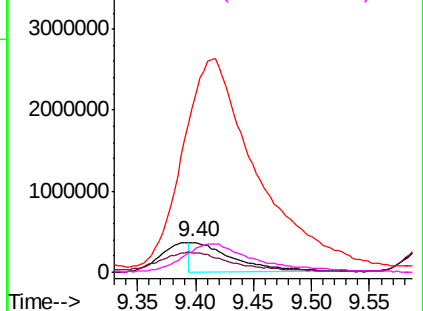


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#50

4-Methyl-2-Pentanone

Concen: 26.374 ppbv

RT: 8.84 min Scan# 1884

Delta R.T. 0.11 min

Lab File: VL038200.D

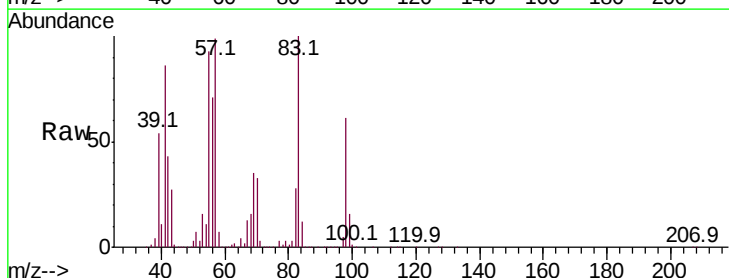
Acq: 16 Dec 2021 22:14

Tgt Ion: 43 Resp: 4843156

Ion Ratio Lower Upper

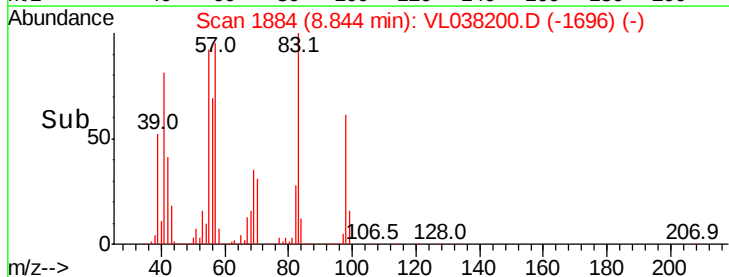
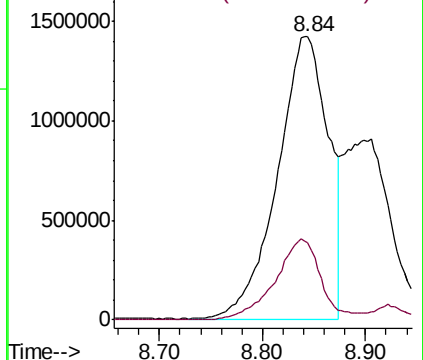
43 100

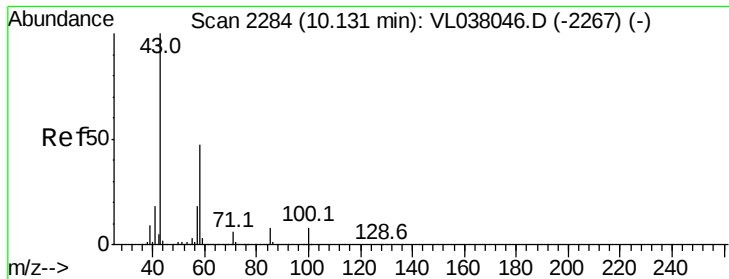
58 25.9 29.4 44.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 143.100 ppbv

RT: 10.21

Delta R.T. MSVOA_L

Lab File:

Acq: 16 Dec 2021 22:14

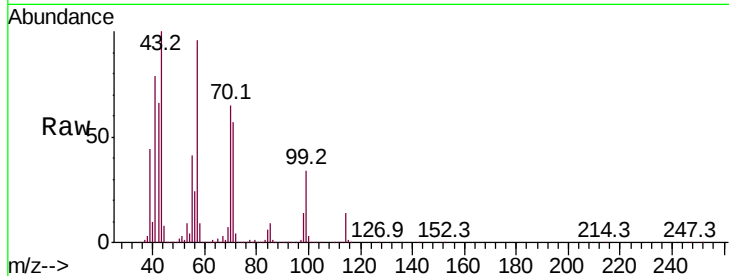
Tot Ion: 43 Resp: 12363246

Ion Ratio Lower Upper

43 100

58 0.0 41.1 61.7#

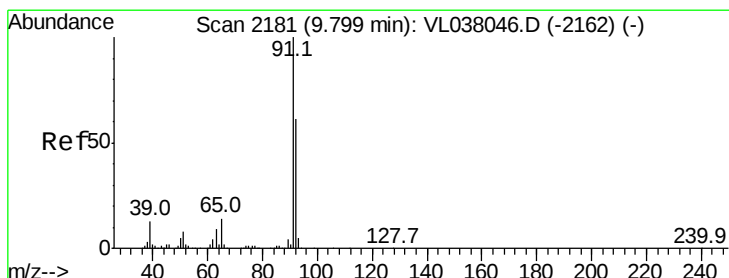
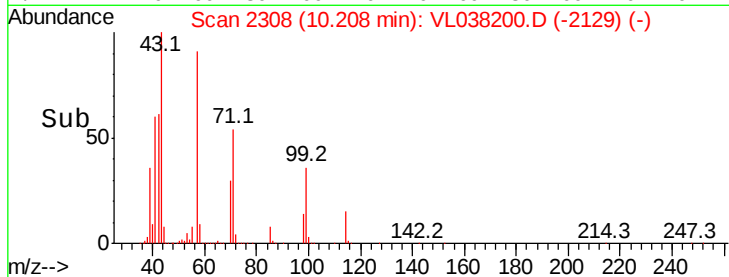
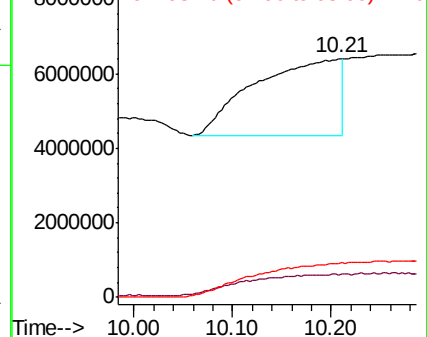
98 0.0 0.1 0.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#53

Toluene

Concen: 10.005 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.04 min

Lab File: VL038200.D

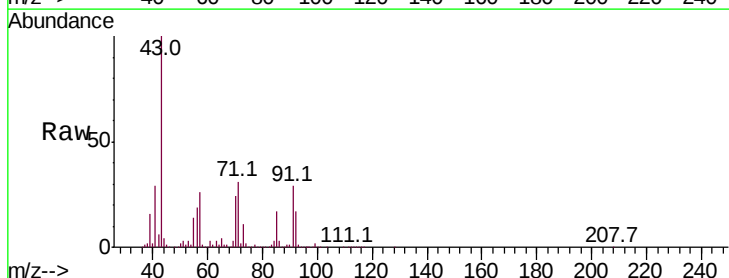
Acq: 16 Dec 2021 22:14

Tgt Ion: 91 Resp: 3443539

Ion Ratio Lower Upper

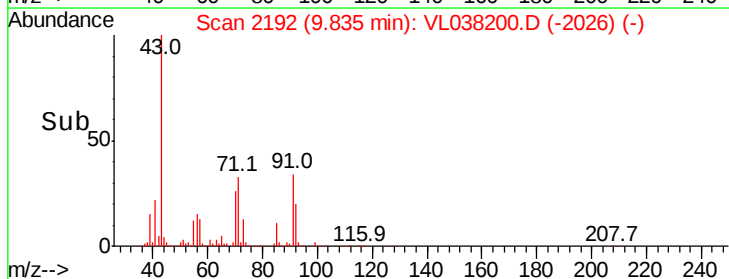
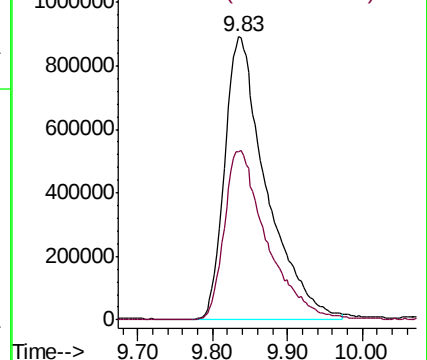
91 100

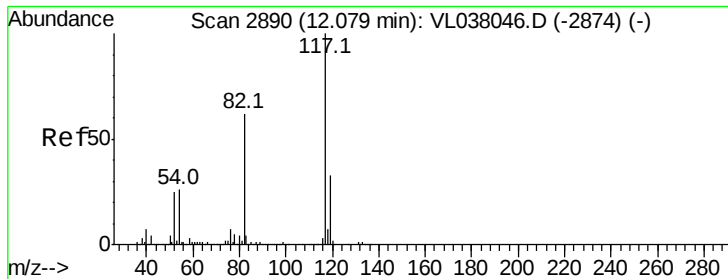
92 61.5 49.7 74.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

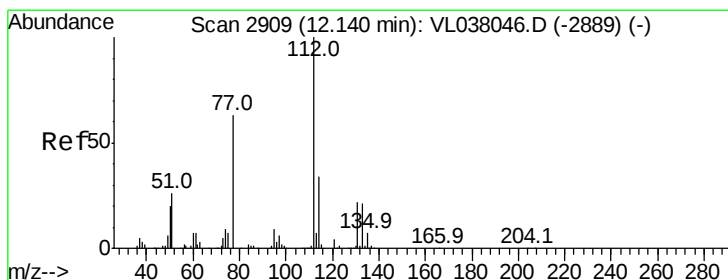
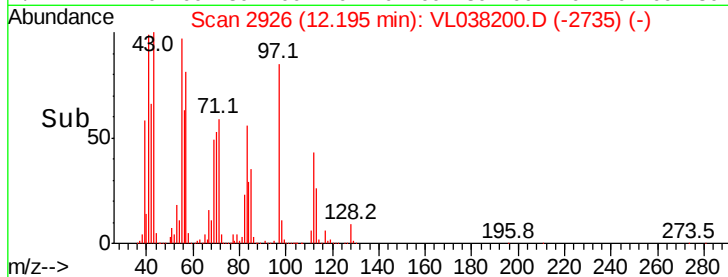
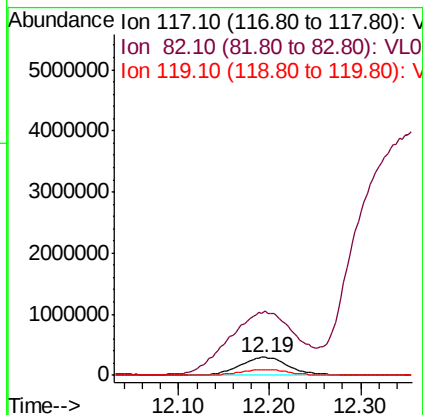
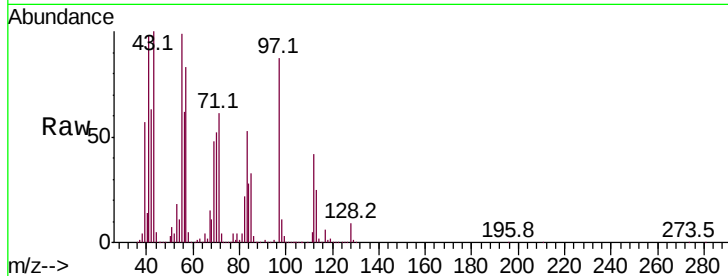
Ion 92.10 (91.80 to 92.80): VL0





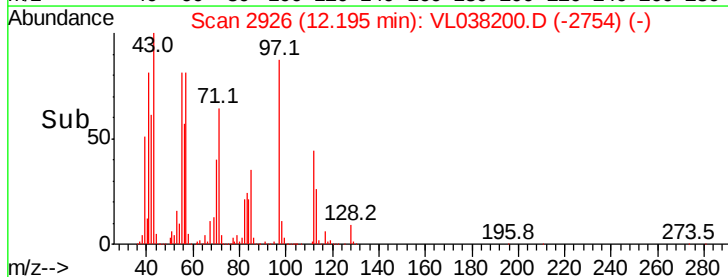
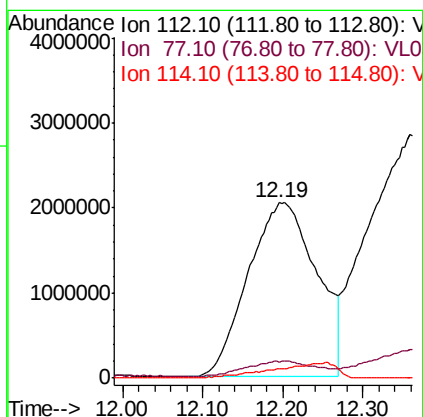
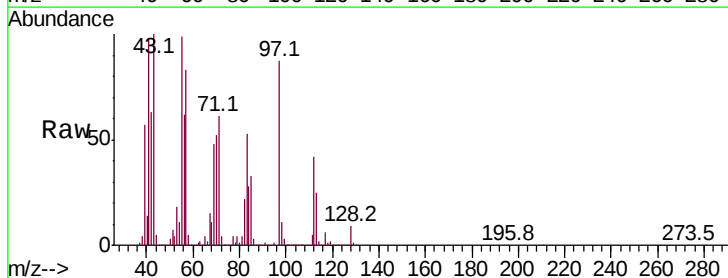
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.19 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Dec 2021 22:14

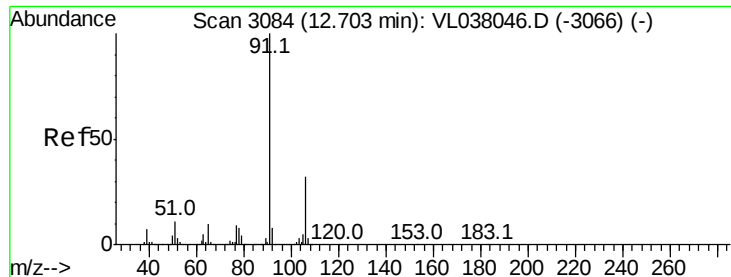
Tot Ion:117 Resp: 1091039
Ion Ratio Lower Upper
117 100
82 494.9 52.8 79.2#
119 33.6 26.8 40.2



#57
Chlorobenzene
Concen: 124.281 ppbv
RT: 12.19 min Scan# 2926
Delta R.T. 0.05 min
Lab File: VL038200.D
Acq: 16 Dec 2021 22:14

Tgt Ion:112 Resp:12153200
Ion Ratio Lower Upper
112 100
77 8.3 50.3 75.5#
114 5.1 30.7 37.5#





#58

Ethyl Benzene

Concen: 220.055 ppbv

RT: 12.87

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

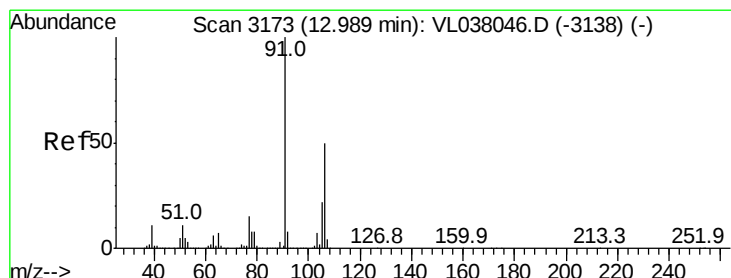
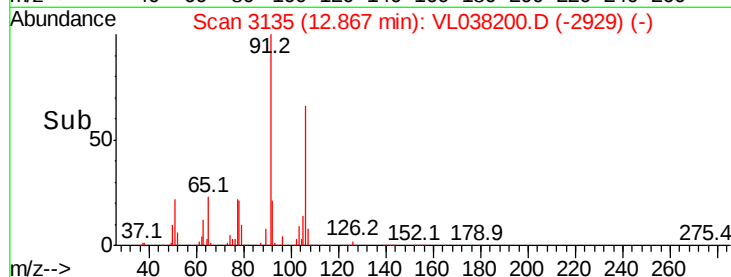
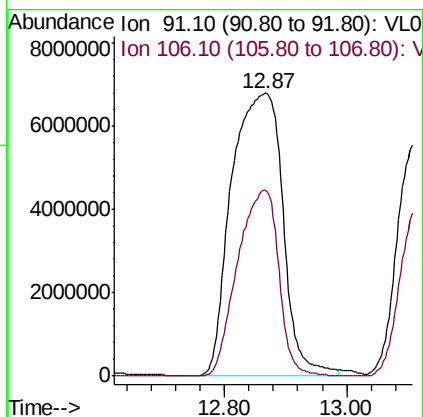
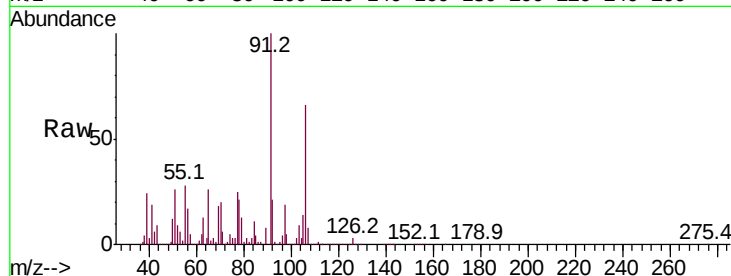
Acq: 16 Dec 2021 22:14

Tot Ion: 91 Resp:39682035

Ion Ratio Lower Upper

91 100

106 65.6 25.8 38.6#



#59

m/p-Xylene

Concen: 247.747 ppbv

RT: 13.15 min Scan# 3223

Delta R.T. 0.16 min

Lab File: VL038200.D

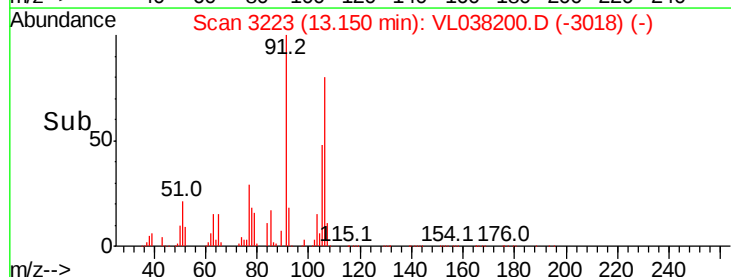
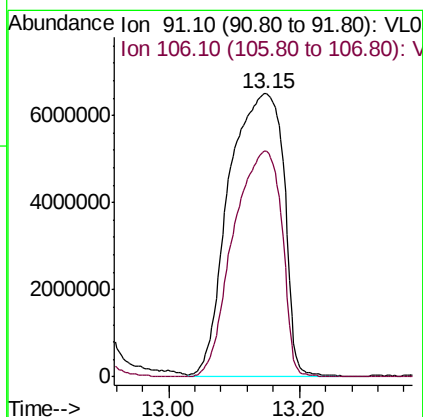
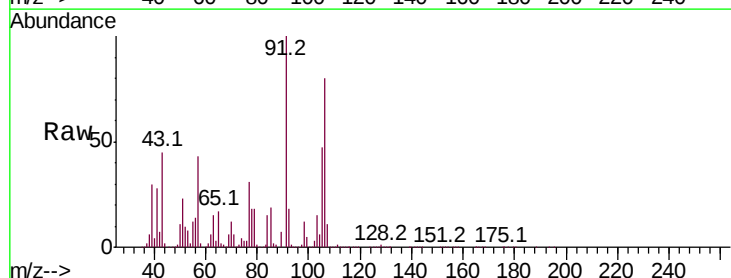
Acq: 16 Dec 2021 22:14

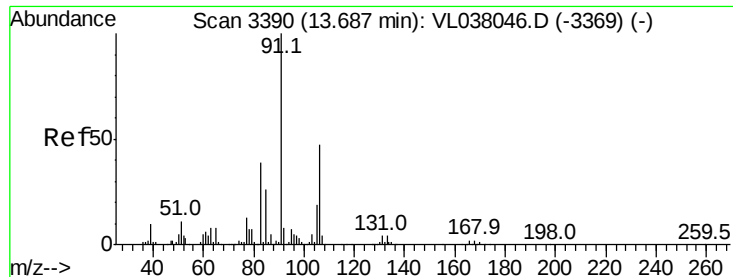
Tgt Ion: 91 Resp:37608041

Ion Ratio Lower Upper

91 100

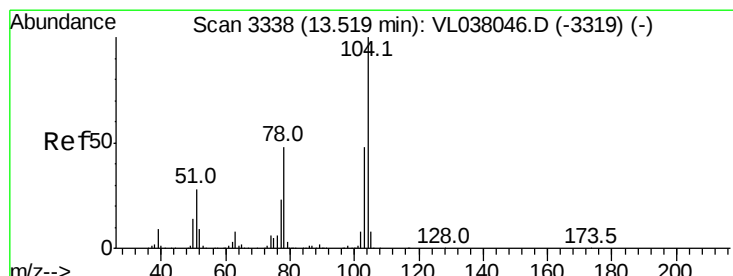
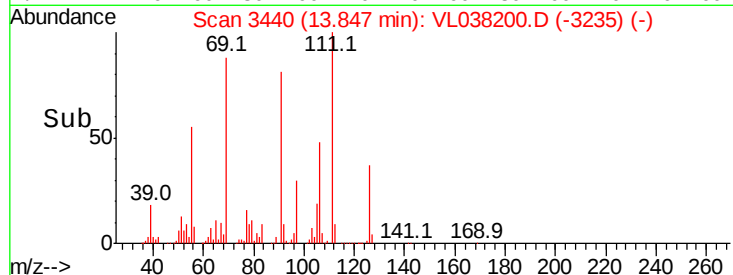
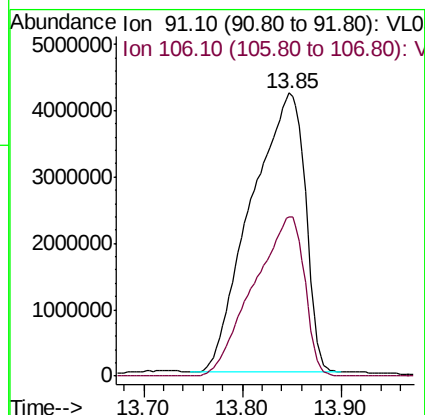
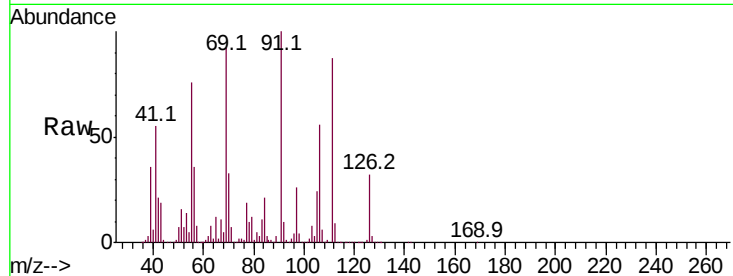
106 70.9 38.1 57.1#





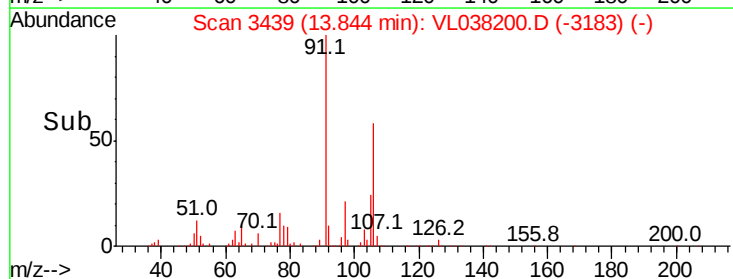
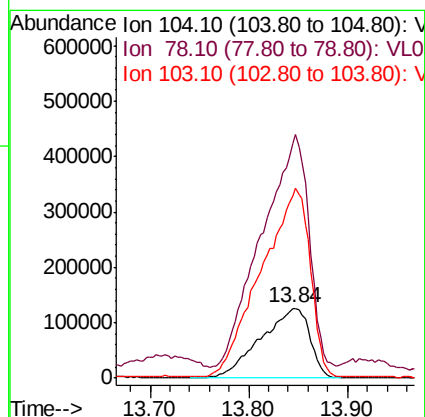
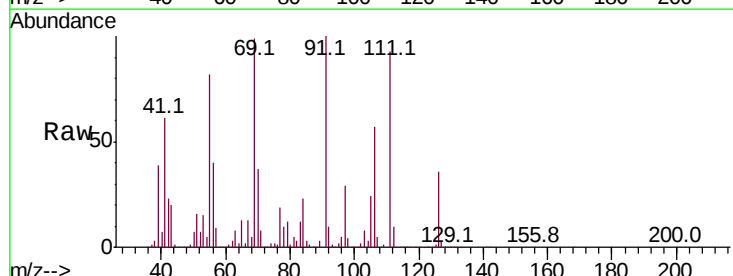
#60
o-Xylene
Concen: 113.715 ppbv
RT: 13.85
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 16 Dec 2021 22:14

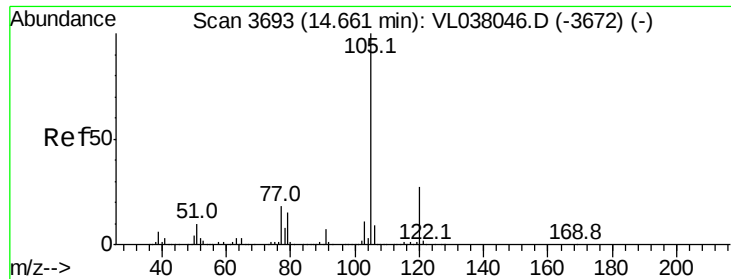
Tot Ion: 91 Resp: 16013256
Ion Ratio Lower Upper
91 100
106 53.6 24.2 72.6



#61
Styrene
Concen: 5.739 ppbv
RT: 13.84 min Scan# 3439
Delta R.T. 0.32 min
Lab File: VL038200.D
Acq: 16 Dec 2021 22:14

Tgt Ion: 104 Resp: 433297
Ion Ratio Lower Upper
104 100
78 343.7 39.8 59.6#
103 272.7 38.2 57.2#





#62

Isopropylbenzene

Concen: 2.622 ppbv

RT: 14.74

Delta R.T. MSVOA_L

Lab File:

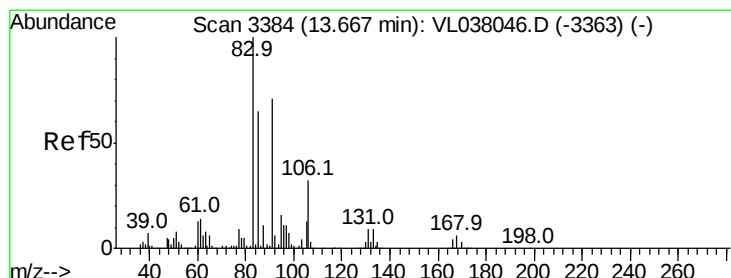
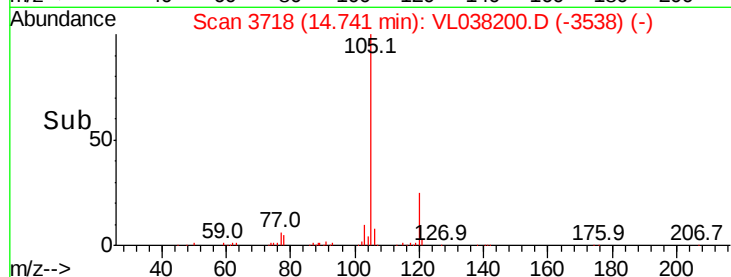
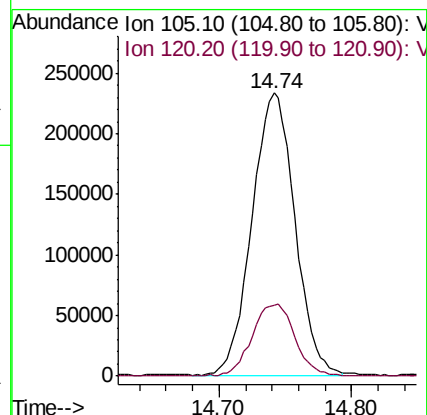
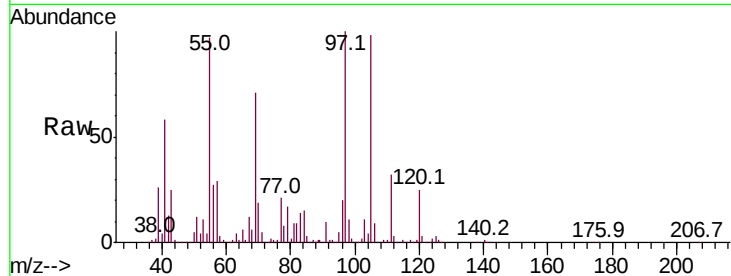
Acq: 16 Dec 2021 22:14

Tot Ion:105 Resp: 524158

Ion Ratio Lower Upper

105 100

120 25.7 21.8 32.6



#63

1,1,2,2-Tetrachloroethane

Concen: 16.295 ppbv

RT: 13.83 min Scan# 3436

Delta R.T. 0.17 min

Lab File: VL038200.D

Acq: 16 Dec 2021 22:14

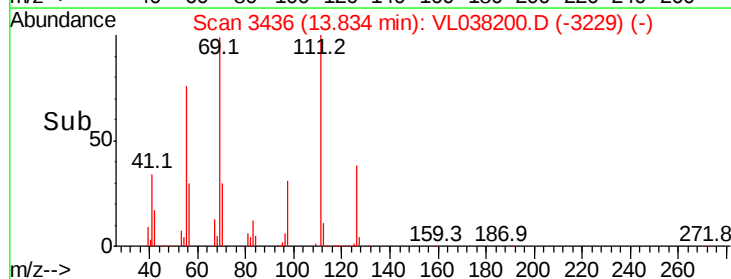
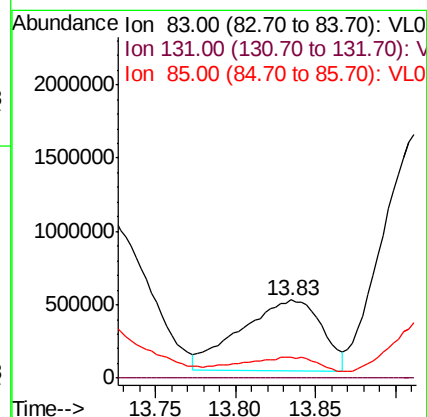
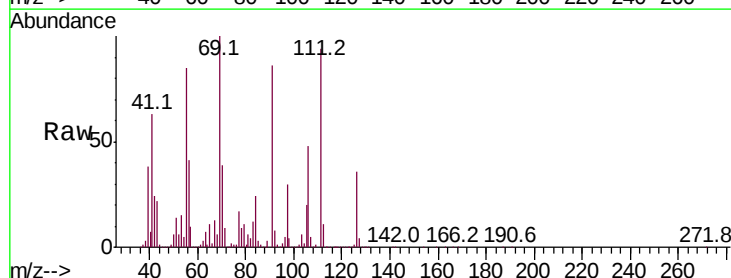
Tgt Ion: 83 Resp: 1704488

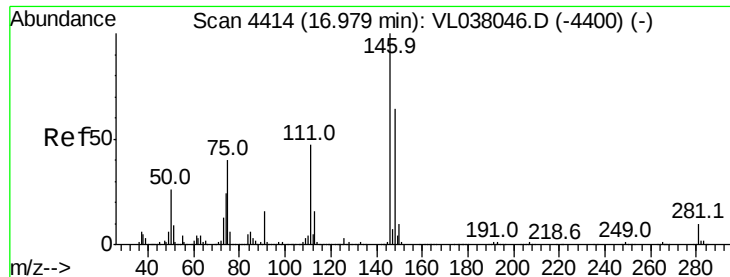
Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

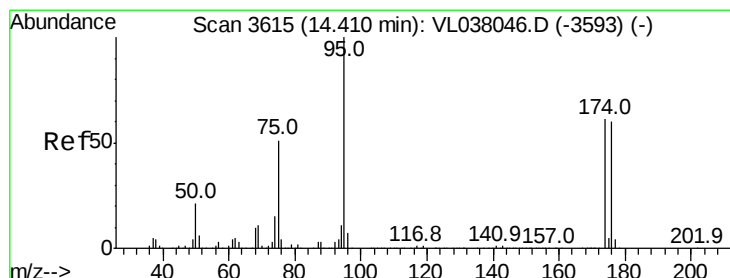
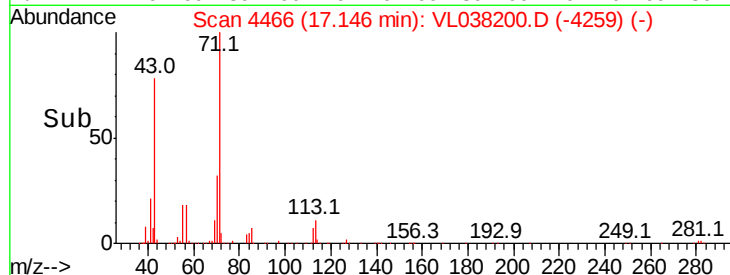
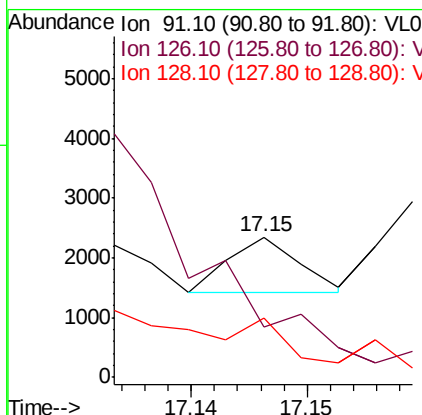
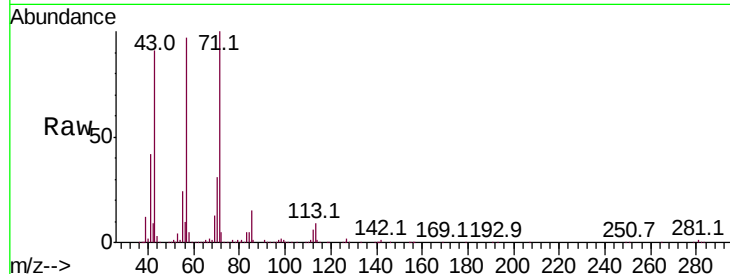
85 28.5 33.4 100.1#





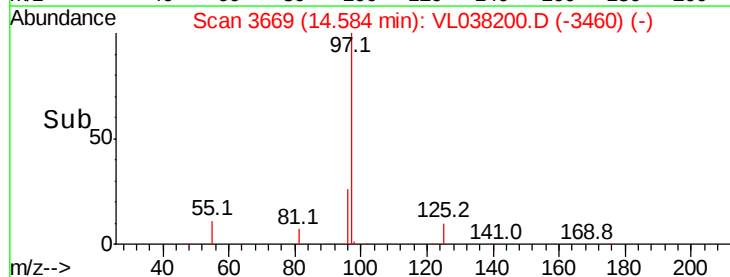
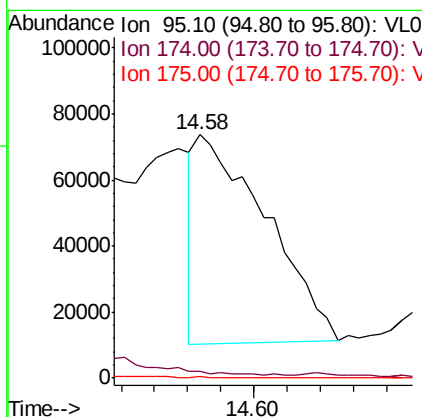
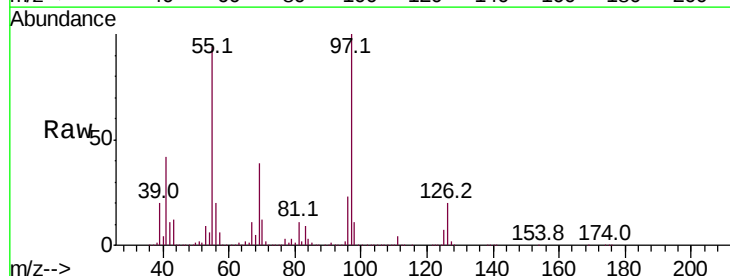
#66
Benzyl Chloride
Concen: 0.043 ppbv
RT: 17.15 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 16 Dec 2021 22:14

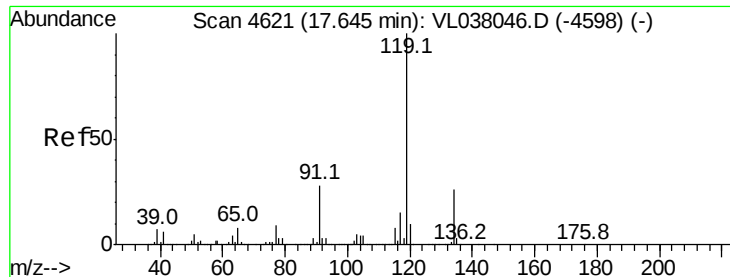
Tot Ion	91	Resp	383
Ion	Ratio	Lower	Upper
91	100		
126	0.0	15.5	23.3#
128	0.0	5.6	8.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 1.180 ppbv
RT: 14.58 min Scan# 3669
Delta R.T.: 0.17 min
Lab File: VL038200.D
Acq: 16 Dec 2021 22:14

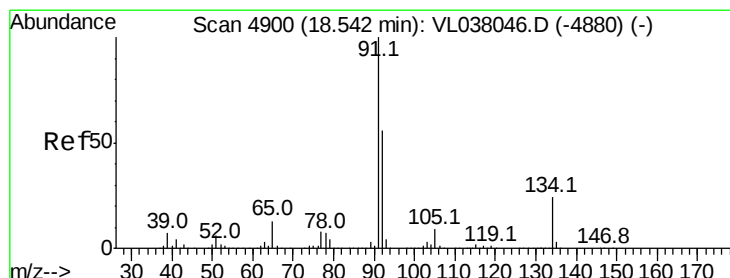
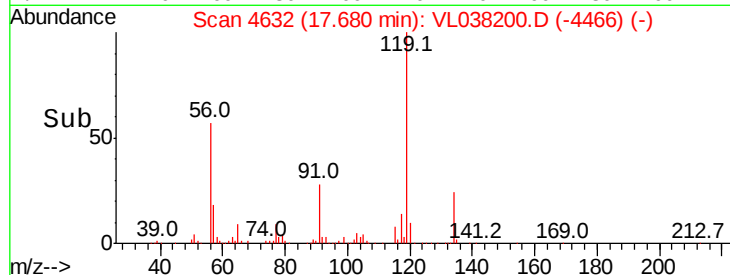
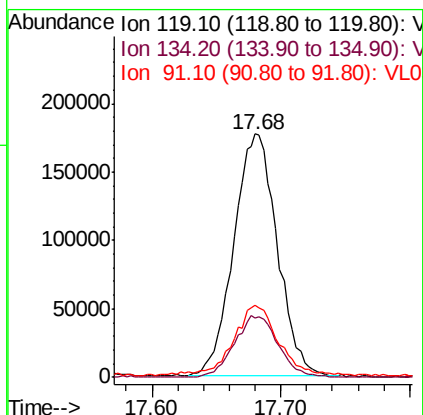
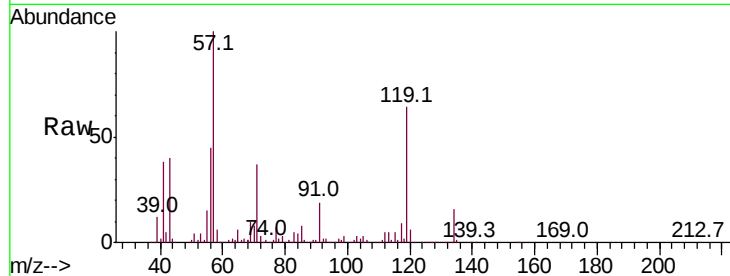
Tgt Ion	95	Resp	92834
Ion	Ratio	Lower	Upper
95	100		
174	0.0	53.1	79.7#
175	0.0	4.0	6.0#





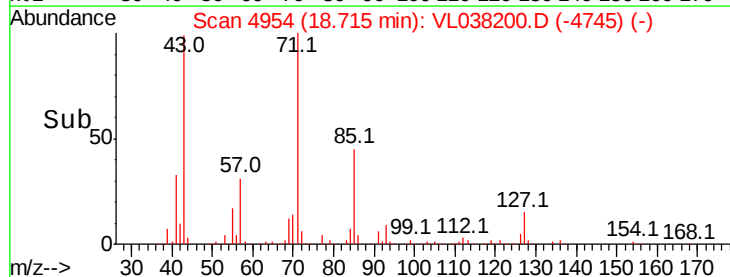
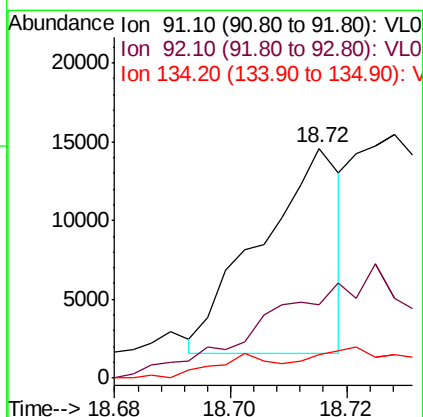
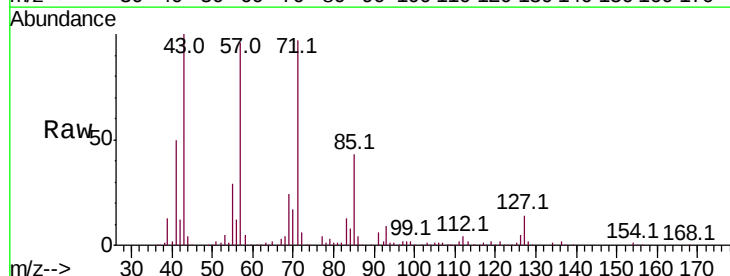
#69
 p-Isopropyltoluene
 Concen: 2.154 ppbv
 RT: 17.68 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 16 Dec 2021 22:14

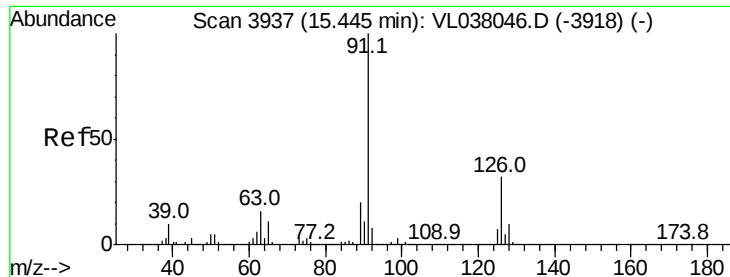
Tot Ion:	119	Resp:	413480
Ion	Ratio	Lower	Upper
119	100		
134	25.7	20.6	30.8
91	31.2	22.2	33.4



#70
 n-Butylbenzene
 Concen: 0.068 ppbv
 RT: 18.72 min Scan# 4954
 Delta R.T. 0.17 min
 Lab File: VL038200.D
 Acq: 16 Dec 2021 22:14

Tgt Ion:	91	Resp:	12469
Ion	Ratio	Lower	Upper
91	100		
92	0.0	44.1	66.1#
134	0.0	18.9	28.3#





#71

2-Chlorotoluene

Concen: 0.441 ppbv

RT: 15.61

Delta R.T. MSVOA_L

Lab File:

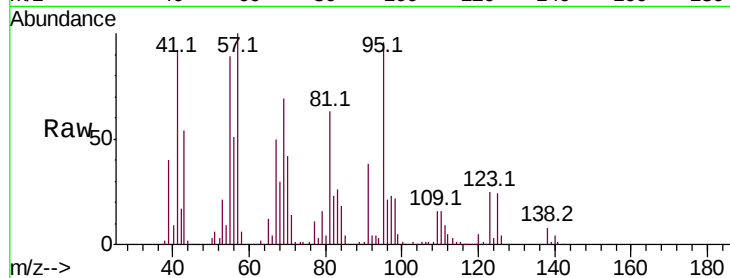
Acq: 16 Dec 2021 22:14

Tot Ion: 91 Resp: 64408

Ion Ratio Lower Upper

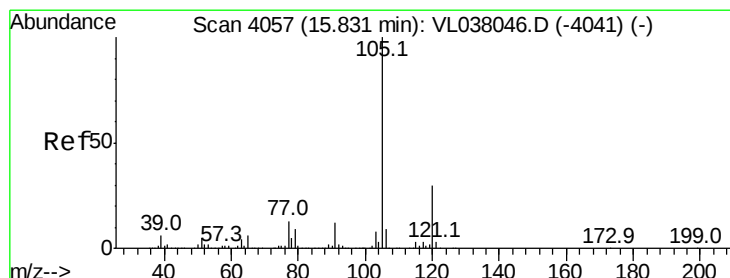
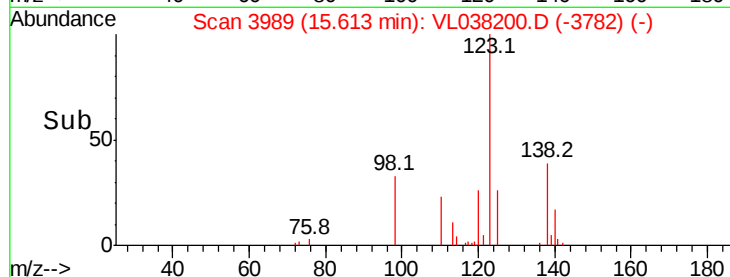
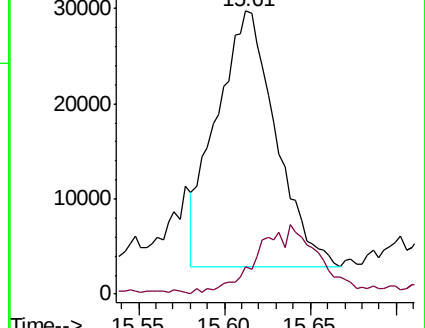
91 100

126 26.3 13.1 52.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.154 ppbv

RT: 16.04 min Scan# 4122

Delta R.T. 0.21 min

Lab File: VL038200.D

Acq: 16 Dec 2021 22:14

Tgt Ion:105 Resp: 25160

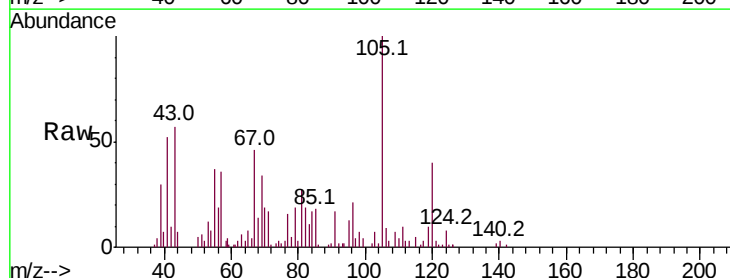
Ion Ratio Lower Upper

105 100

120 80.2 25.1 37.7#

91 0.0 9.7 14.5#

77 34.9 10.6 16.0#

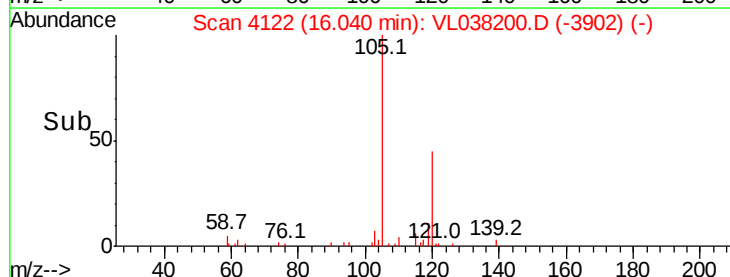
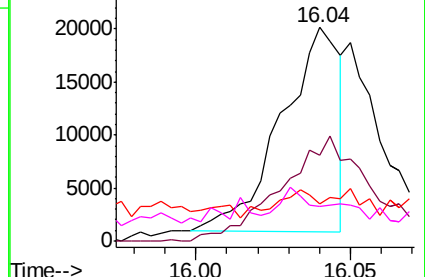


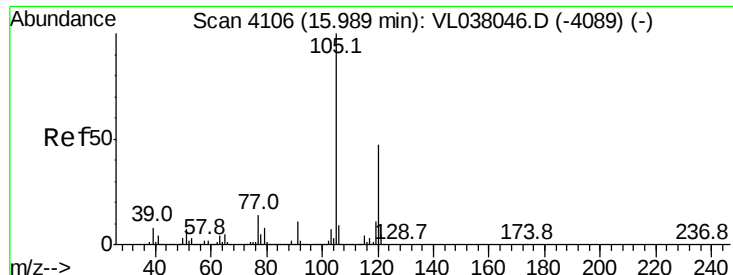
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73
 1,3,5-Trimethylbenzene
 Concen: 0.103 ppbv
 RT: 16.05
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 16 Dec 2021 22:14

Tot Ion:105 Resp: 15319
 Ion Ratio Lower Upper
 105 100
 120 43.4 37.8 56.6

