

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030122\
 Data File : VL038469.D
 Acq On : 2 Mar 2022 2:55
 Operator : SY/AP
 Sample : N1723-03 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FSG1

Quant Time: Mar 02 04:56:38 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022
 QLast Update : Tue Feb 22 19:45:51 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	929816	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.18	114	2333361	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	2070005	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	1700686	9.93	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	14996	0.10	ppbv	97
3) Chlorodifluoromethane	2.97	51	49130	0.30	ppbv #	73
4) Chloromethane	3.15	50	34102	0.60	ppbv	95
5) Vinyl Chloride	3.26	62	2544	0.04	ppbv #	80
9) Propene	3.03	41	3359801	61.98	ppbv #	70
10) Heptane	8.13	43	885713	6.71	ppbv	99
11) Trichlorofluoromethane	3.96	101	33290	0.24	ppbv	97
13) Ethanol	3.61	45	280848	51.91	ppbv	89
15) Acetone	3.85	43	15701088	198.57	ppbv	92
16) 1,3-Butadiene	3.32	39	599208	11.34	ppbv #	34
17) tert-Butyl alcohol	4.30	59	890347	11.29	ppbv	100
19) Isopropyl Alcohol	3.98	45	104746	2.29	ppbv #	93
20) Methylene Chloride	4.35	84	144467	3.69	ppbv	95
21) Allyl Chloride	4.38	41	269175	4.03	ppbv #	53
23) Vinyl Acetate	5.06	43	367656	3.51	ppbv #	1
25) Ethyl Acetate	5.70	43	881649	4.15	ppbv #	80
26) Hexane	5.70	57	1247591	12.97	ppbv #	43
27) Carbon Disulfide	4.56	76	148363	1.39	ppbv	95
28) Methyl tert-Butyl Ether	5.04	73	46695	0.48	ppbv #	53
30) Cyclohexane	7.14	84	442276	5.62	ppbv	97
31) cis-1,2-Dichloroethene	5.56	61	10761	0.12	ppbv #	86
32) 1,1,1-Trichloroethane	6.52	97	82441	0.52	ppbv	97
34) 2-Butanone	5.25	43	440975	6.01	ppbv	93
35) Carbon Tetrachloride	7.03	117	6948	0.04	ppbv #	50
36) Benzene	6.90	78	2197885	10.70	ppbv	98
37) 1,2-Dichloroethane	6.31	62	5675	0.05	ppbv #	81
38) Trichloroethene	7.84	130	24513	0.33	ppbv #	67
39) 1,2-Dichloropropane	7.18	63	583345	7.13	ppbv #	25
40) 1,4-Dioxane	7.84	88	13871	0.71	ppbv #	1
41) Tetrahydrofuran	6.06	42	32228	0.65	ppbv #	89
42) Bromodichloromethane	7.80	83	26908	0.16	ppbv #	24
43) Methyl Methacrylate	8.01	69	4073	0.06	ppbv #	1
44) 2,2,4-Trimethylpentane	7.88	57	2601758	7.37	ppbv #	87
50) 4-Methyl-2-Pentanone	8.75	43	58344	0.45	ppbv #	56
51) 2-Hexanone	10.11	43	290951	5.01	ppbv #	47
52) Tetrachloroethene	11.24	164	4037	0.06	ppbv #	77
53) Toluene	9.81	91	5036601	22.58	ppbv	97
57) Chlorobenzene	12.15	112	4819	0.03	ppbv #	63
58) Ethyl Benzene	12.71	91	853826	3.02	ppbv	100
59) m/p-Xylene	12.97	91	1890483	7.78	ppbv	93
60) o-Xylene	13.70	91	536082	2.33	ppbv	95

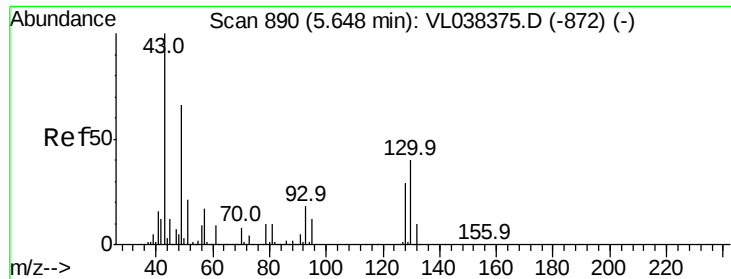
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030122\
 Data File : VL038469.D
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022
 QLast Update : Tue Feb 22 19:45:51 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) Styrene	13.53	104	76552	0.72	ppbv	94
62) Isopropylbenzene	14.67	105	4351211	14.11	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.68	83	11913	0.06	ppbv #	24
64) n-propylbenzene	15.57	120	2407	0.03	ppbv #	1
66) Benzyl Chloride	17.01	91	513	0.04	ppbv #	69
71) 2-Chlorotoluene	15.77	91	20969	0.09	ppbv	76
72) 4-Ethyltoluene	15.84	105	34193	0.14	ppbv #	86
73) 1,3,5-Trimethylbenzene	16.00	105	22137	0.10	ppbv	98
74) 1,2,4-Trimethylbenzene	16.76	105	60631	0.25	ppbv #	69

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 2 Mar 2022 2:55

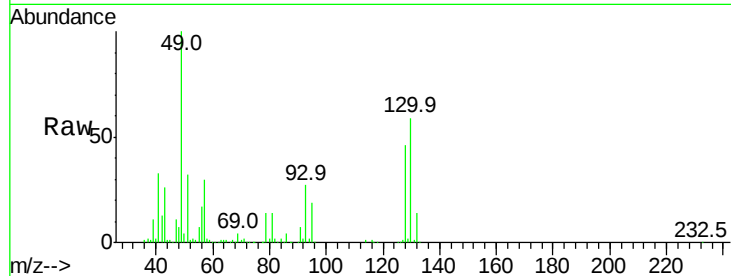
Tgt Ion: 49 Resp: 929816

Ion Ratio Lower Upper

49 100

128 47.7 24.3 72.9

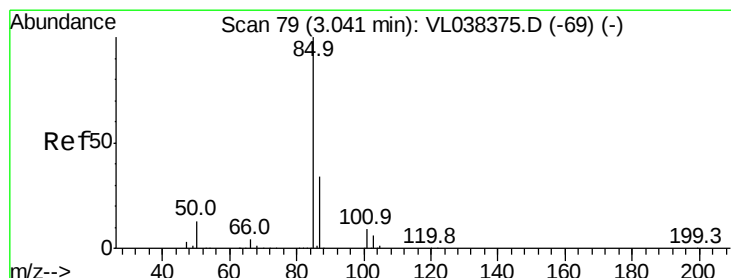
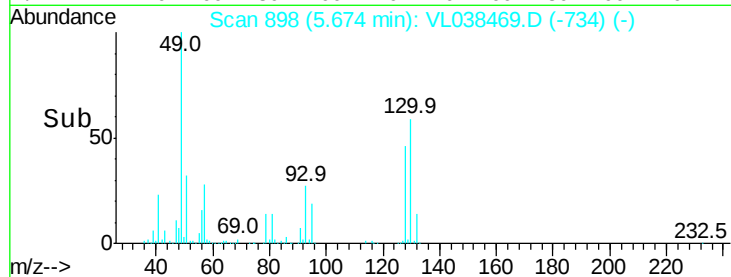
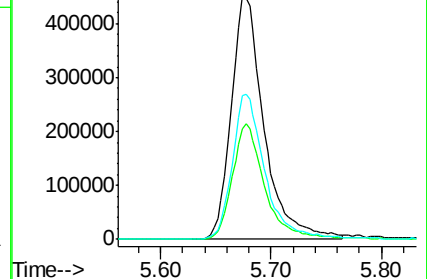
130 59.9 30.1 90.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.10 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL038469.D

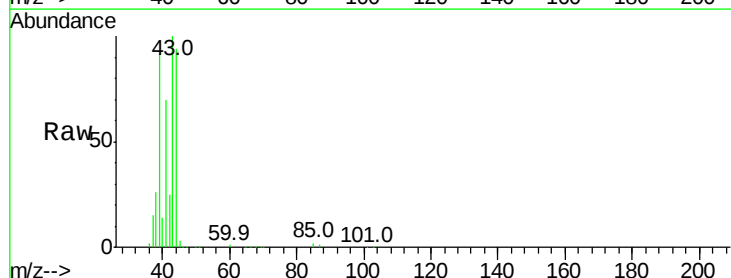
Acq: 2 Mar 2022 2:55

Tgt Ion: 85 Resp: 14996

Ion Ratio Lower Upper

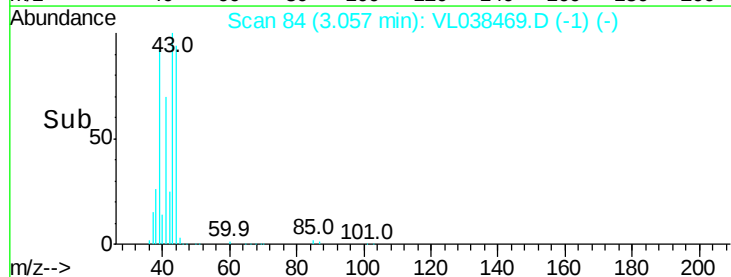
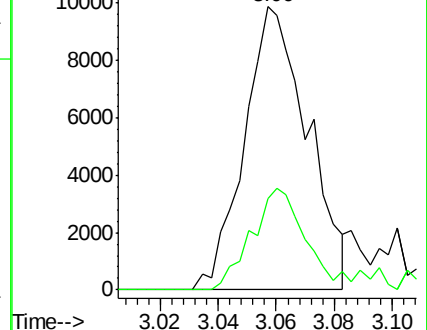
85 100

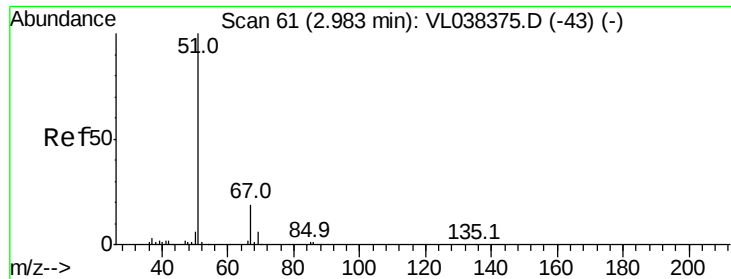
87 32.3 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.30 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

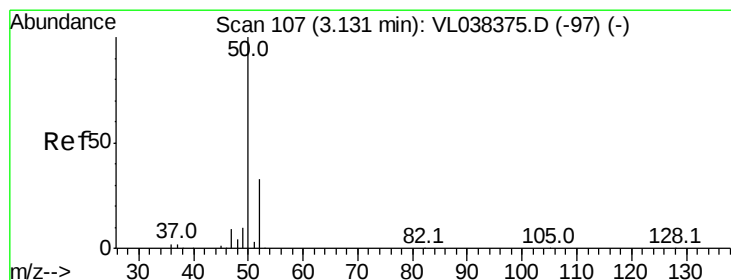
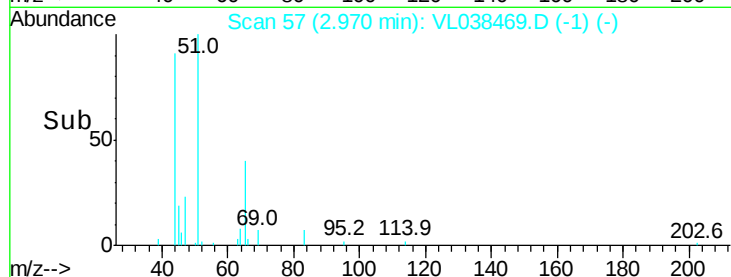
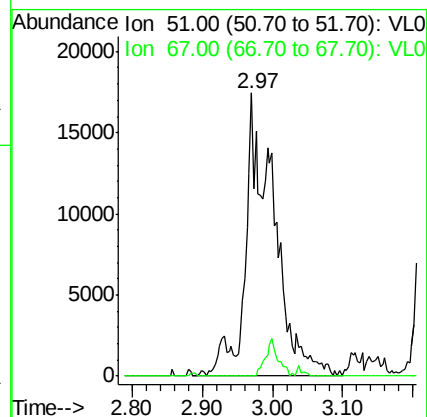
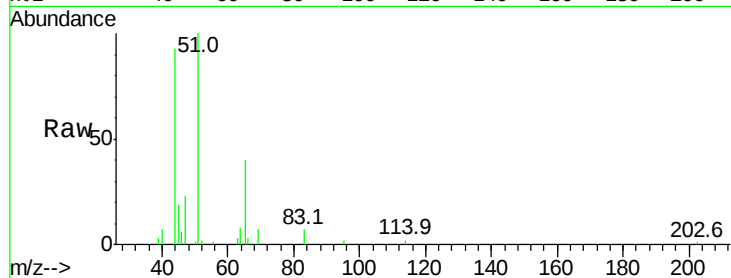
Acq: 2 Mar 2022 2:55

Tgt Ion: 51 Resp: 49130

Ion Ratio Lower Upper

51 100

67 6.4 14.7 22.1#



#4

Chloromethane

Concen: 0.60 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.02 min

Lab File: VL038469.D

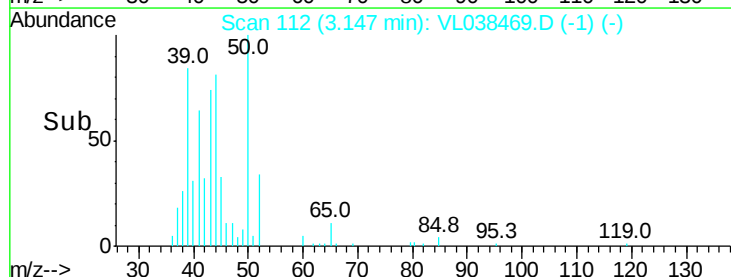
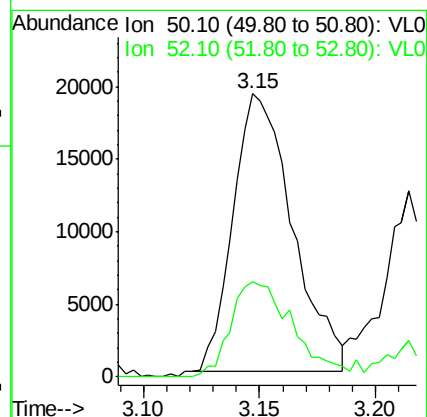
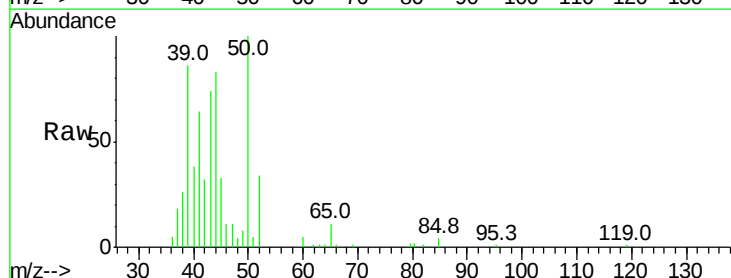
Acq: 2 Mar 2022 2:55

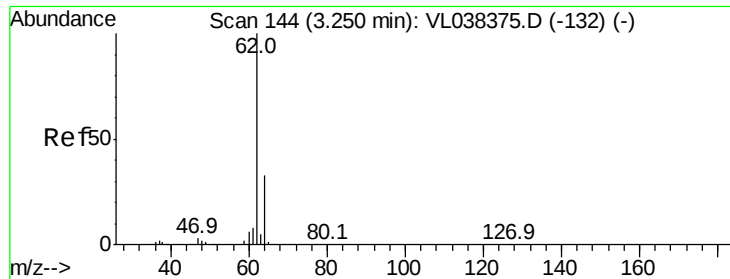
Tgt Ion: 50 Resp: 34102

Ion Ratio Lower Upper

50 100

52 35.9 26.5 39.7





#5

Vinyl Chloride

Concen: 0.04 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

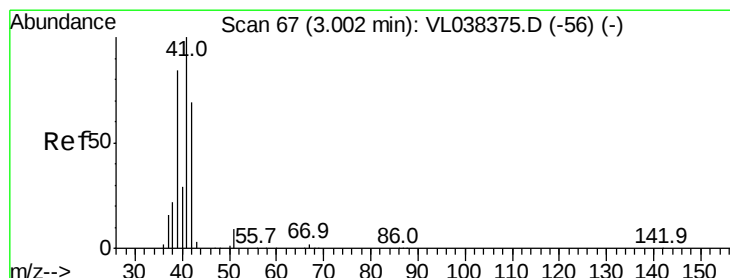
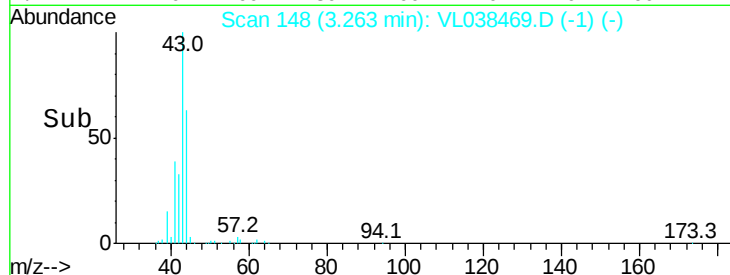
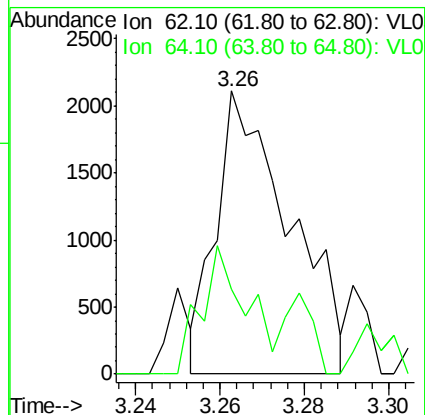
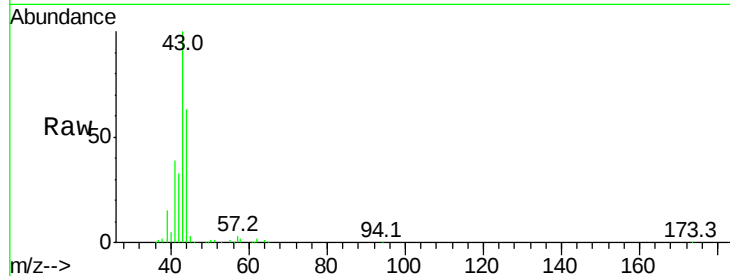
Acq: 2 Mar 2022 2:55

Tgt Ion: 62 Resp: 2544

Ion Ratio Lower Upper

62 100

64 43.8 26.2 39.2#



#9

Propene

Concen: 61.98 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.03 min

Lab File: VL038469.D

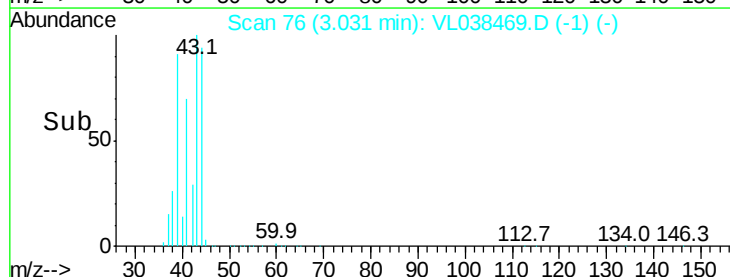
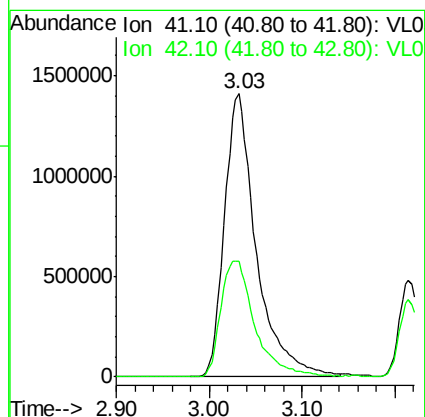
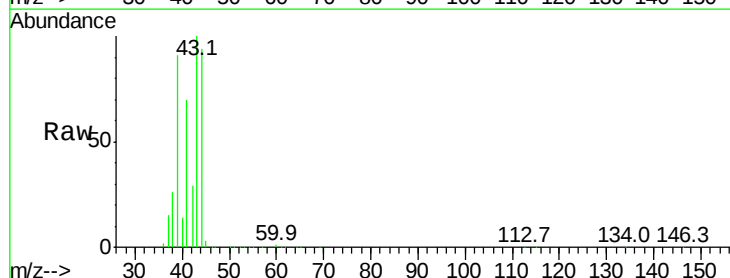
Acq: 2 Mar 2022 2:55

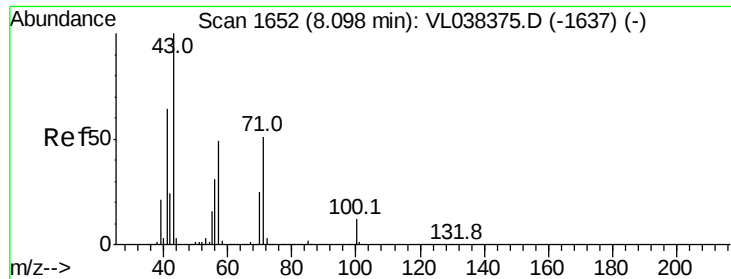
Tgt Ion: 41 Resp: 3359801

Ion Ratio Lower Upper

41 100

42 44.4 54.6 82.0#





#10

Heptane

Concen: 6.71 ppbv

RT: 8.13

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

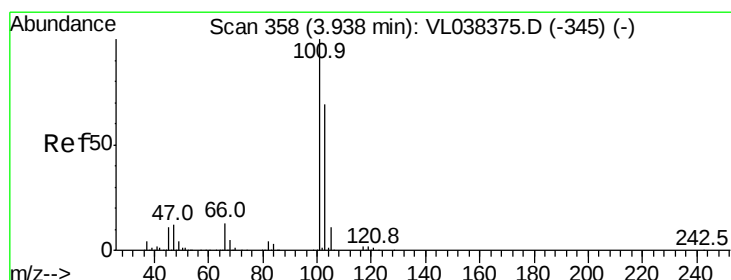
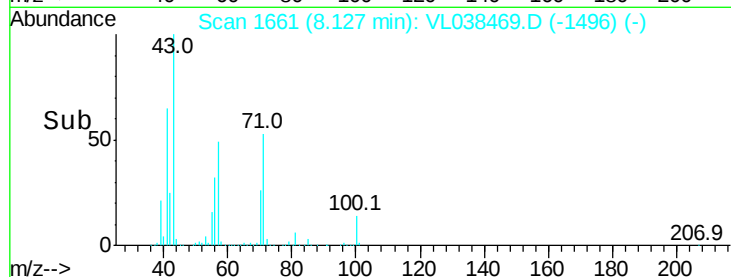
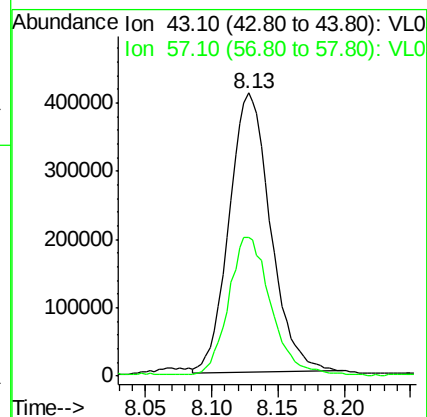
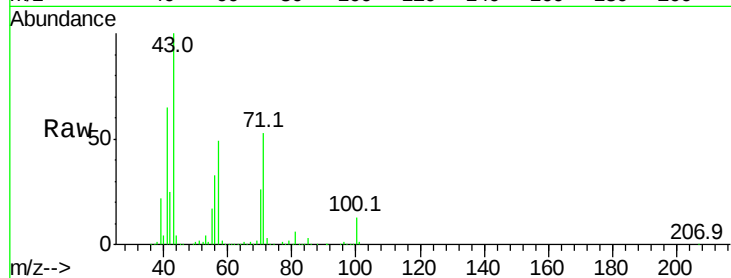
Acq: 2 Mar 2022 2:55

Tgt Ion: 43 Resp: 885713

Ion Ratio Lower Upper

43 100

57 50.4 39.8 59.8



#11

Trichlorofluoromethane

Concen: 0.24 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL038469.D

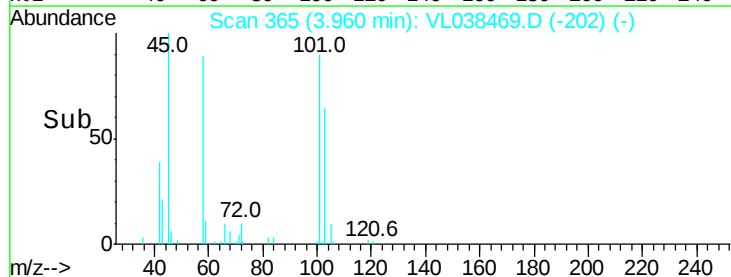
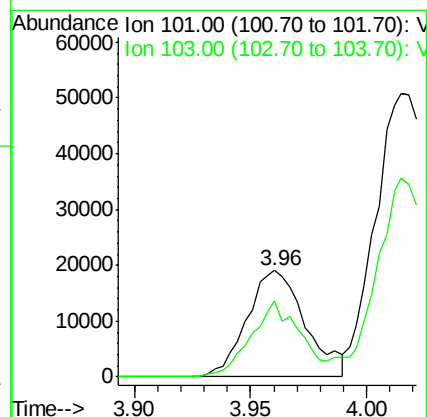
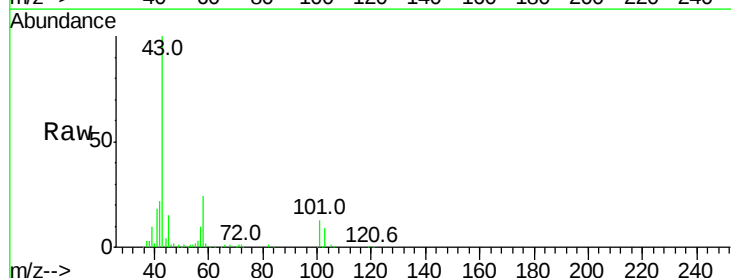
Acq: 2 Mar 2022 2:55

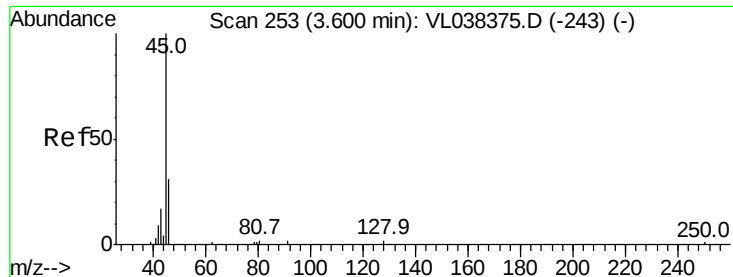
Tgt Ion: 101 Resp: 33290

Ion Ratio Lower Upper

101 100

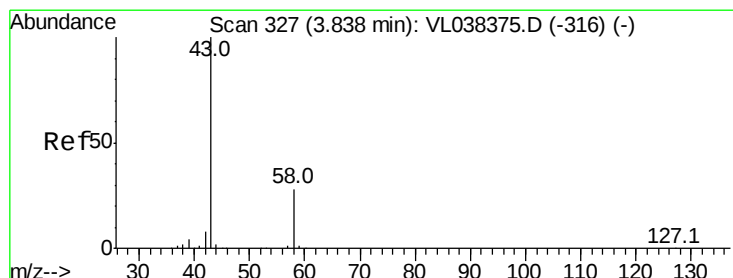
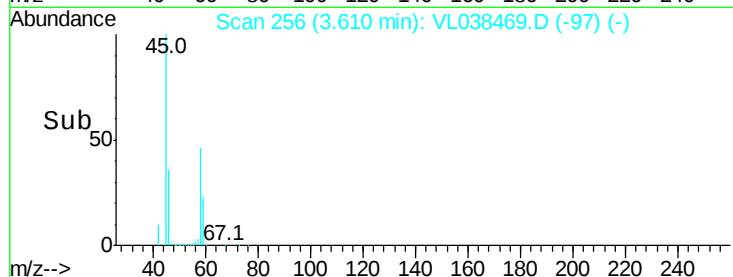
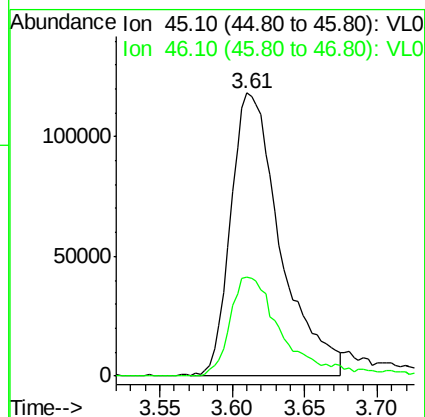
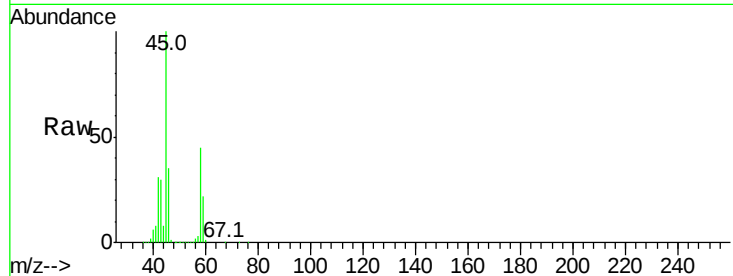
103 71.0 55.0 82.4





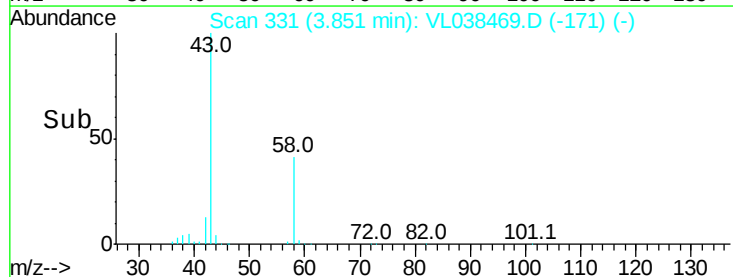
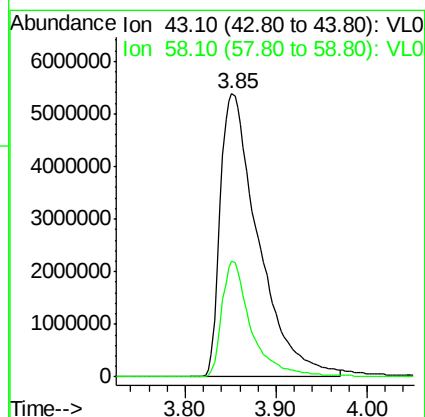
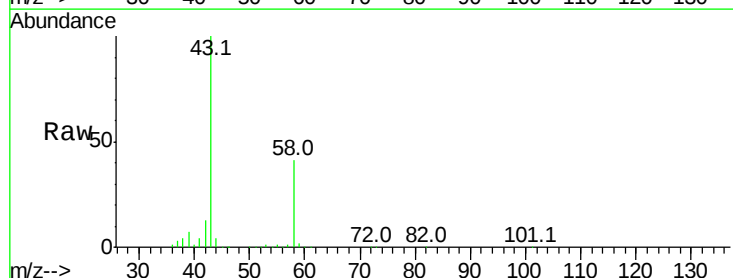
#13
Ethanol
Concen: 51.91 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 2:55

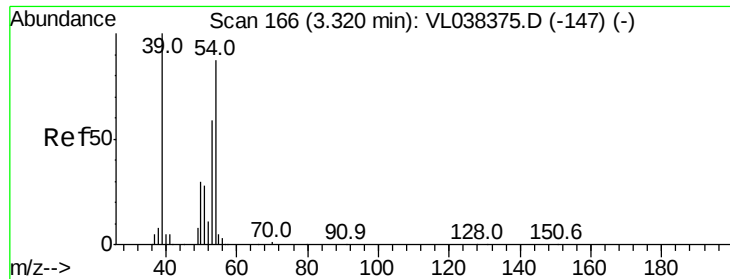
Tgt Ion: 45 Resp: 280848
Ion Ratio Lower Upper
45 100
46 38.4 18.2 72.8



#15
Acetone
Concen: 198.57 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL038469.D
Acq: 2 Mar 2022 2:55

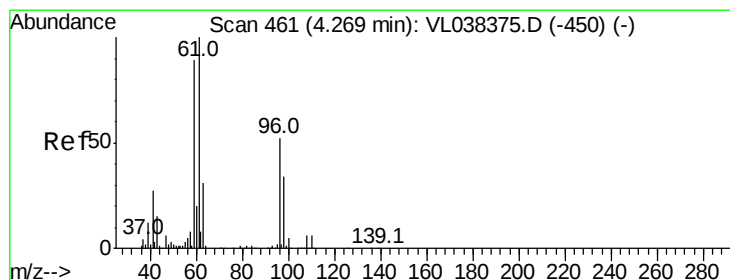
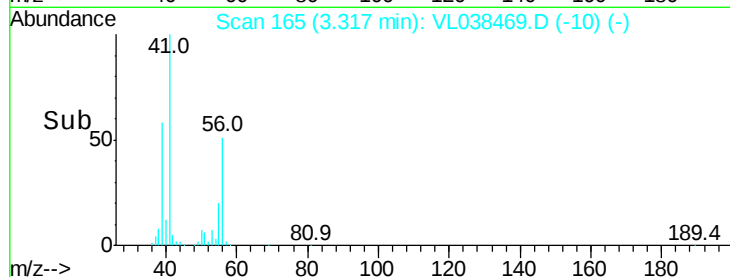
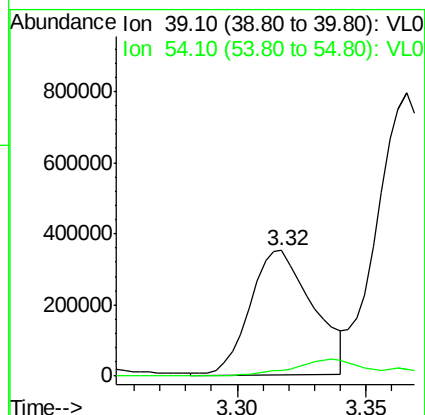
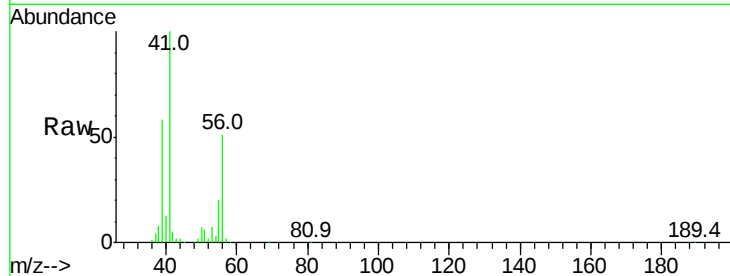
Tgt Ion: 43 Resp:15701088
Ion Ratio Lower Upper
43 100
58 31.4 21.7 32.5





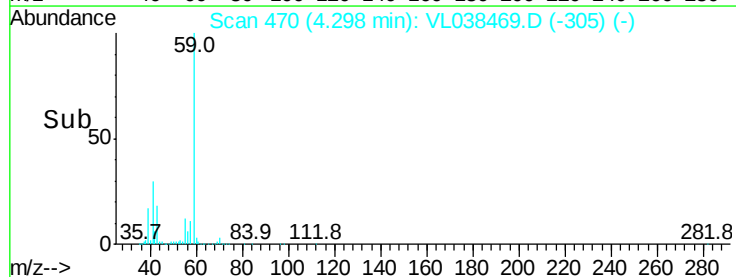
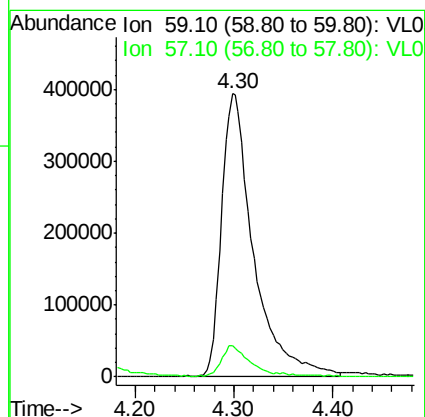
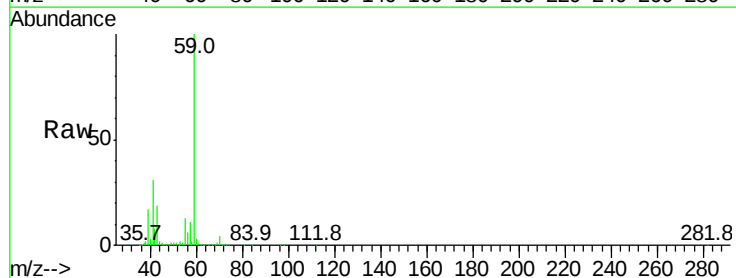
#16
 1,3-Butadiene
 Concen: 11.34 ppbv
 RT: 3.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 FSG1
 Acq: 2 Mar 2022 2:55

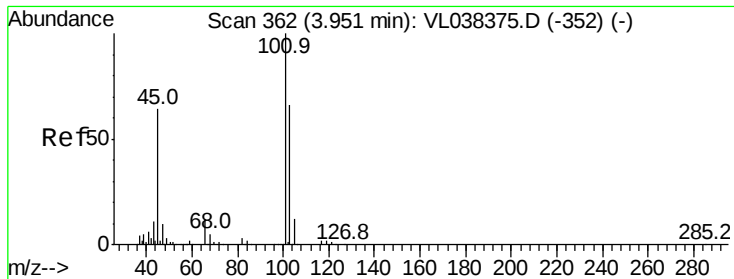
Tgt Ion: 39 Resp: 599208
 Ion Ratio Lower Upper
 39 100
 54 19.0 60.3 90.5#



#17
 tert-Butyl alcohol
 Concen: 11.29 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.03 min
 Lab File: VL038469.D
 Acq: 2 Mar 2022 2:55

Tgt Ion: 59 Resp: 890347
 Ion Ratio Lower Upper
 59 100
 57 10.6 8.4 12.6





#19

Isopropyl Alcohol

Concen: 2.29 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

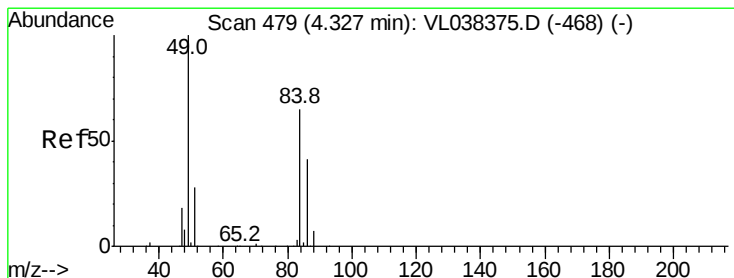
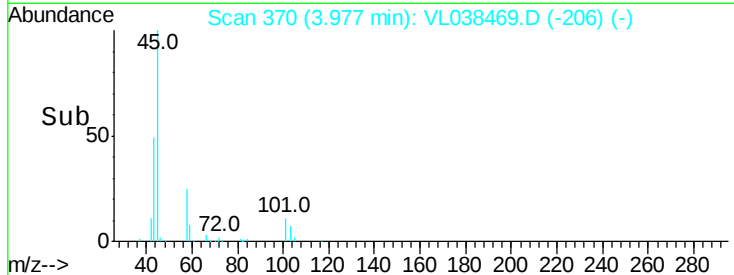
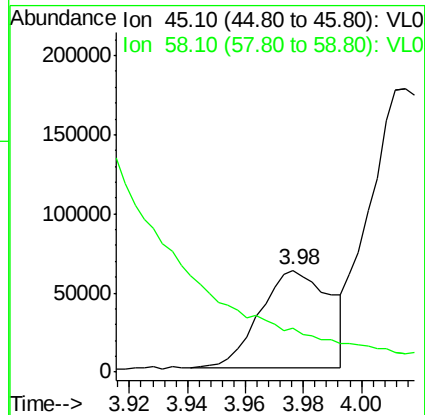
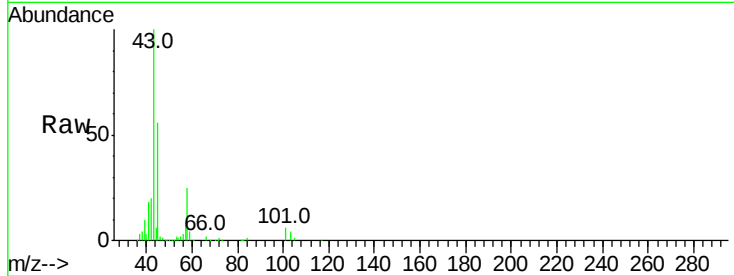
Acq: 2 Mar 2022 2:55 FSG1

Tgt Ion: 45 Resp: 104746

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#



#20

Methylene Chloride

Concen: 3.69 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.03 min

Lab File: VL038469.D

Acq: 2 Mar 2022 2:55

Tgt Ion: 84 Resp: 144467

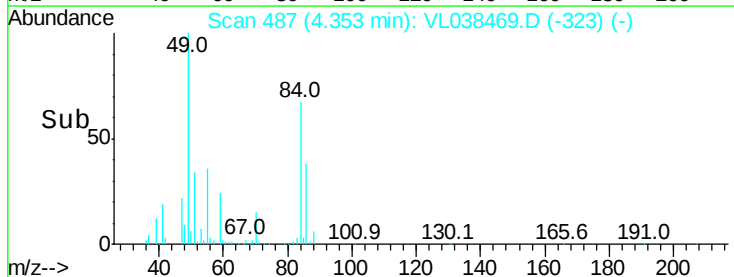
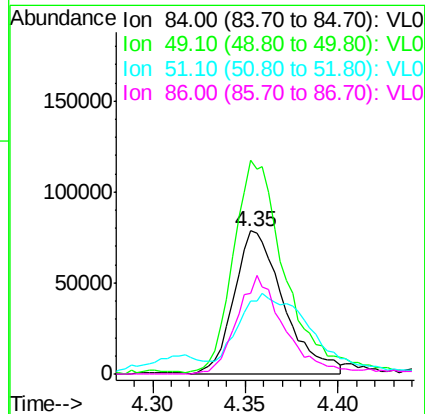
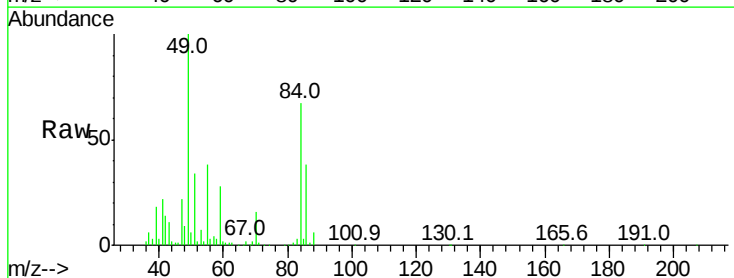
Ion Ratio Lower Upper

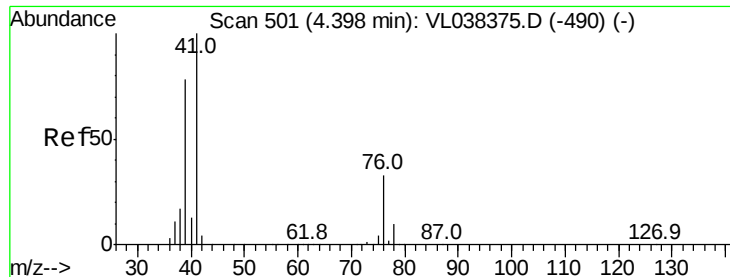
84 100

49 147.9 122.4 183.6

51 40.7 33.3 49.9

86 56.8 50.7 76.1





#21

Allyl Chloride

Concen: 4.03 ppbv

RT: 4.38 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 2 Mar 2022 2:55 FSG1

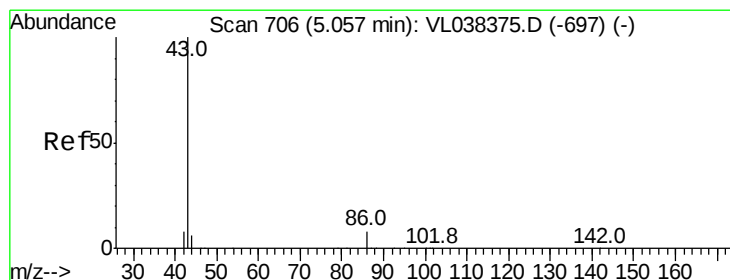
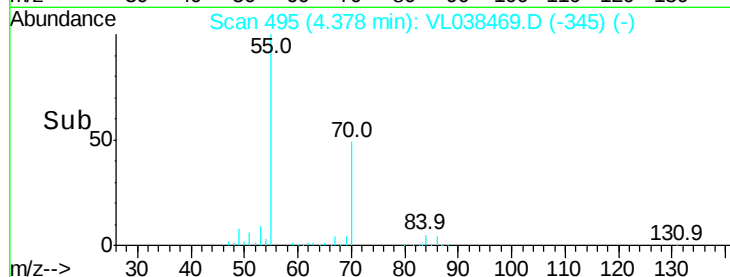
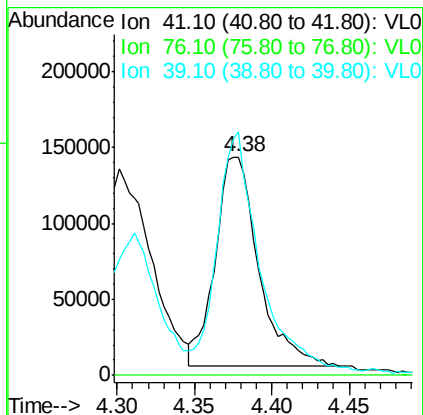
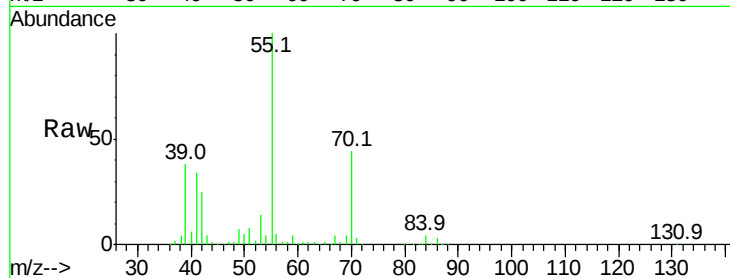
Tgt Ion: 41 Resp: 269175

Ion Ratio Lower Upper

41 100

76 0.0 25.4 38.0#

39 115.8 63.0 94.6#



#23

Vinyl Acetate

Concen: 3.51 ppbv

RT: 5.06 min Scan# 708

Delta R.T. 0.01 min

Lab File: VL038469.D

Acq: 2 Mar 2022 2:55

Tgt Ion: 43 Resp: 367656

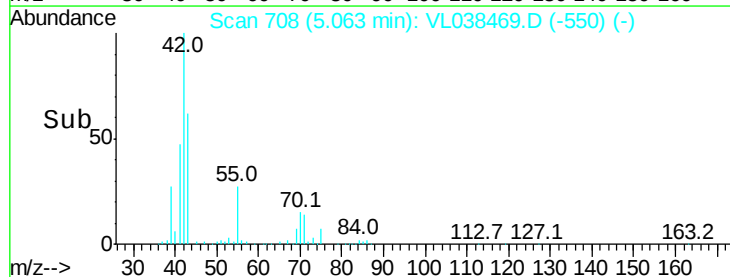
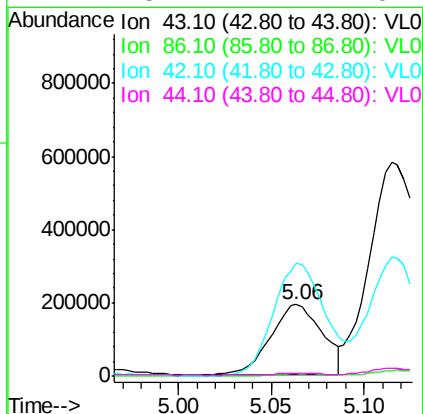
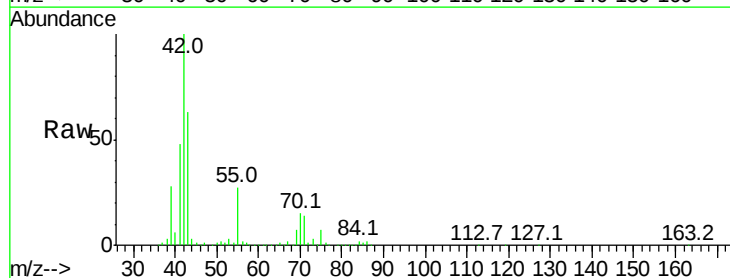
Ion Ratio Lower Upper

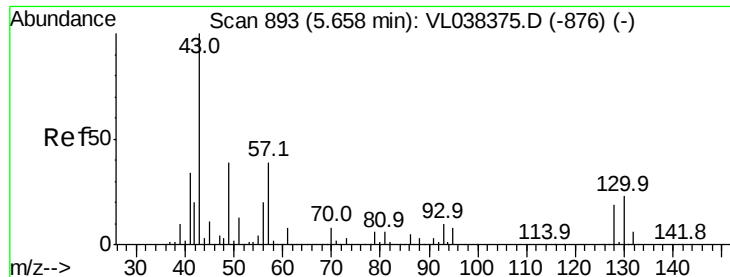
43 100

86 3.0 5.8 8.6#

42 161.2 7.4 11.0#

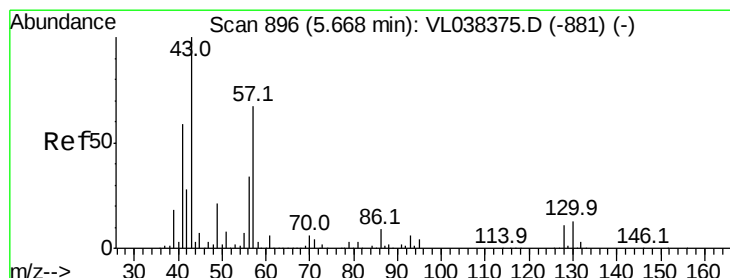
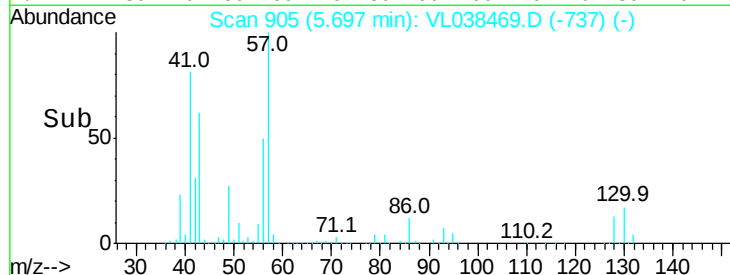
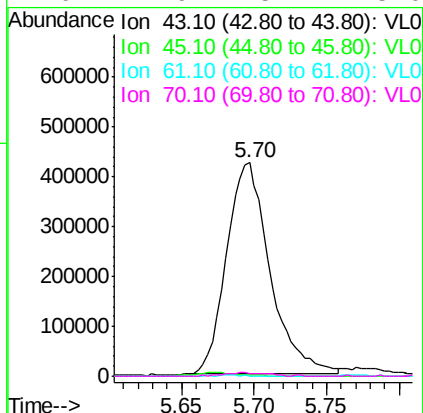
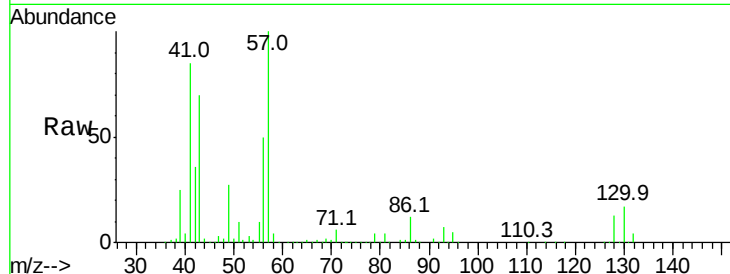
44 3.1 4.2 6.2#





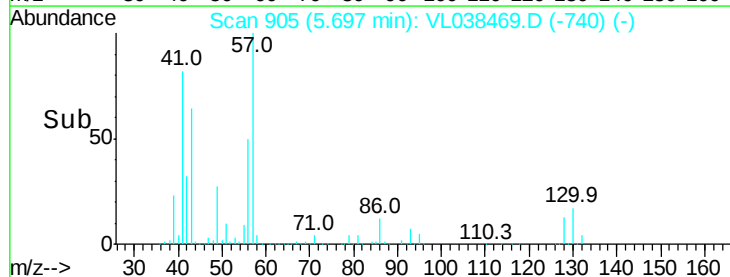
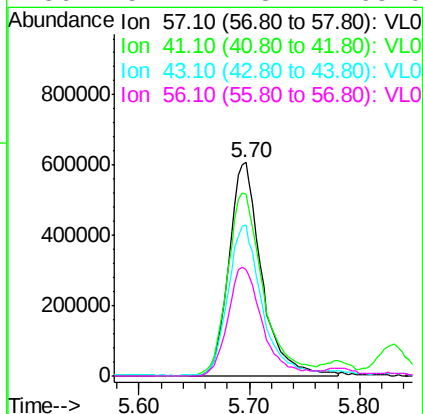
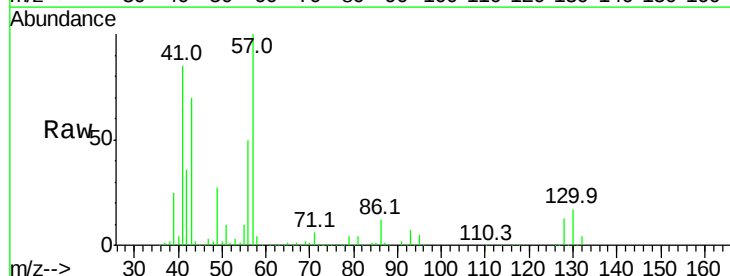
#25
Ethyl Acetate
Concen: 4.15 ppbv
RT: 5.70 min
Delta R.T.: 0.03 min
Lab File: VL038469.D
Acq: 2 Mar 2022 2:55

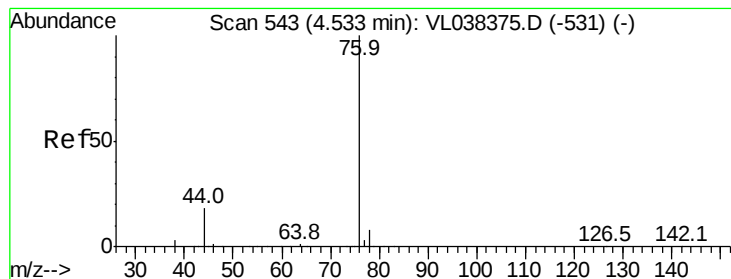
Tgt Ion:	43	Resp:	881649
Ion	Ratio	Lower	Upper
43	100		
45	2.0	7.8	11.6#
61	0.5	7.5	11.3#
70	1.9	5.4	8.0#



#26
Hexane
Concen: 12.97 ppbv
RT: 5.70 min Scan# 905
Delta R.T.: 0.03 min
Lab File: VL038469.D
Acq: 2 Mar 2022 2:55

Tgt Ion:	57	Resp:	1247591
Ion	Ratio	Lower	Upper
57	100		
41	93.1	73.1	109.7
43	75.4	181.0	271.4#
56	54.1	43.4	65.0





#27

Carbon Disulfide

Concen: 1.39 ppbv

RT: 4.56 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 2 Mar 2022 2:55 FSG1

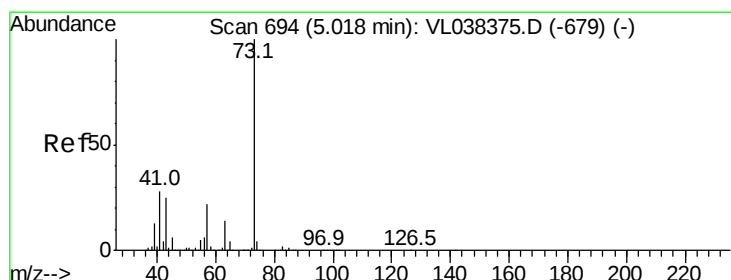
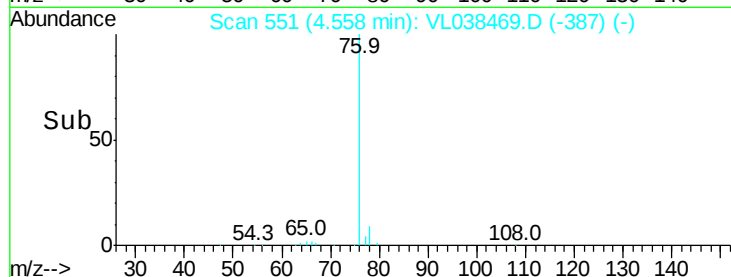
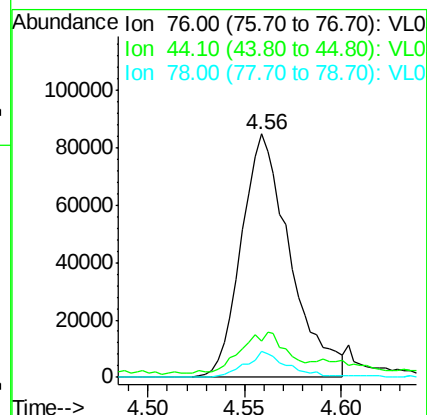
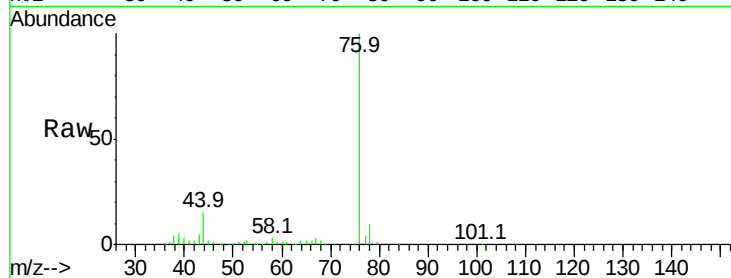
Tgt Ion: 76 Resp: 148363

Ion Ratio Lower Upper

76 100

44 21.0 14.2 21.2

78 9.6 7.8 11.6



#28

Methyl tert-Butyl Ether

Concen: 0.48 ppbv

RT: 5.04 min Scan# 701

Delta R.T. 0.02 min

Lab File: VL038469.D

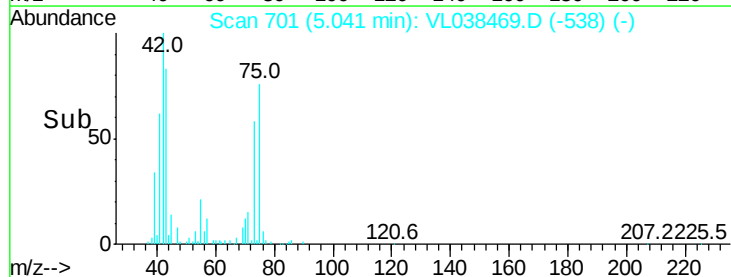
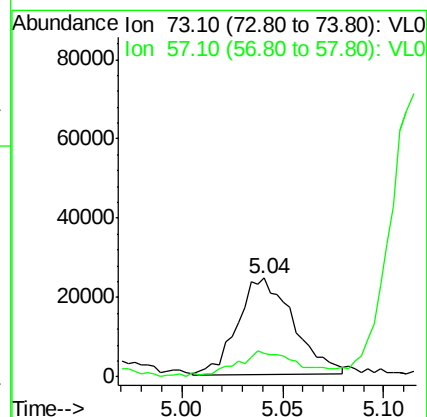
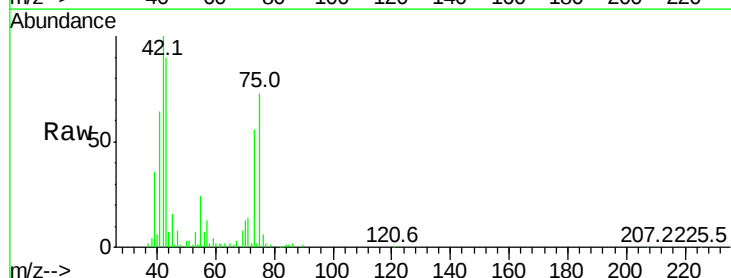
Acq: 2 Mar 2022 2:55

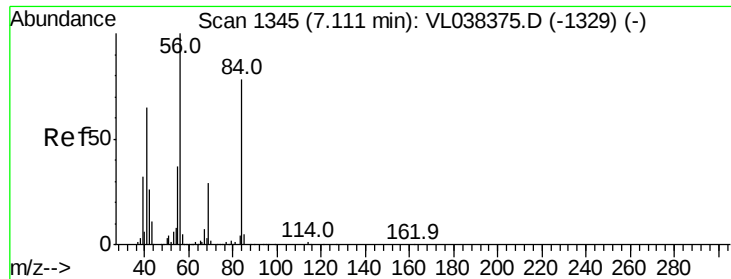
Tgt Ion: 73 Resp: 46695

Ion Ratio Lower Upper

73 100

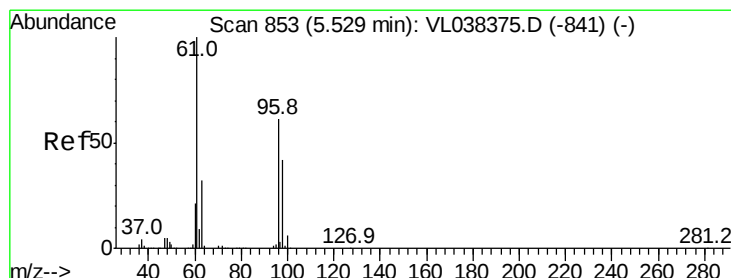
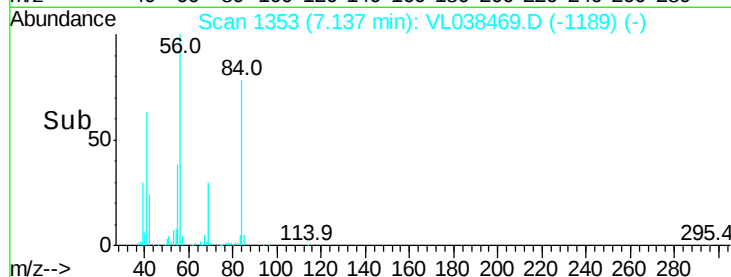
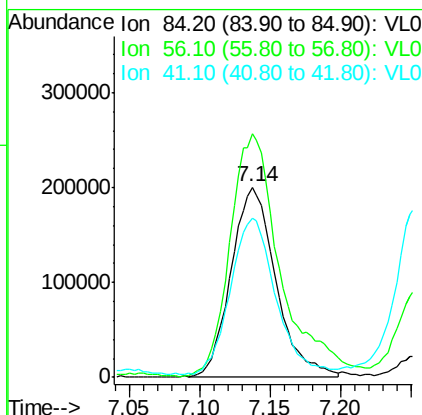
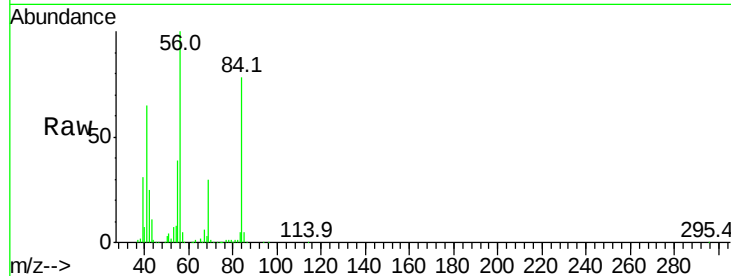
57 0.0 18.2 27.4#





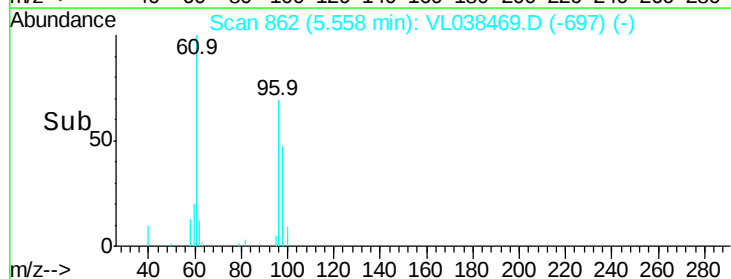
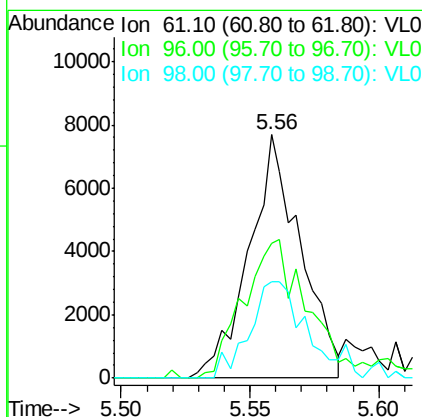
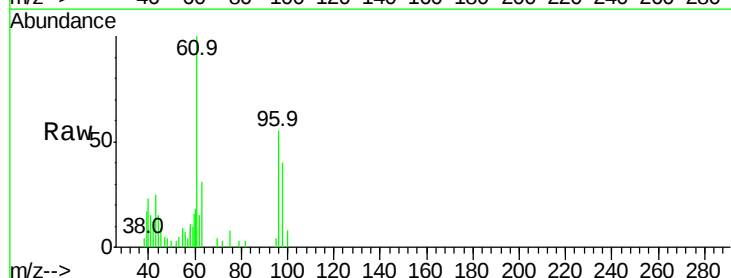
#30
Cyclohexane
Concen: 5.62 ppbv
RT: 7.14
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 2:55

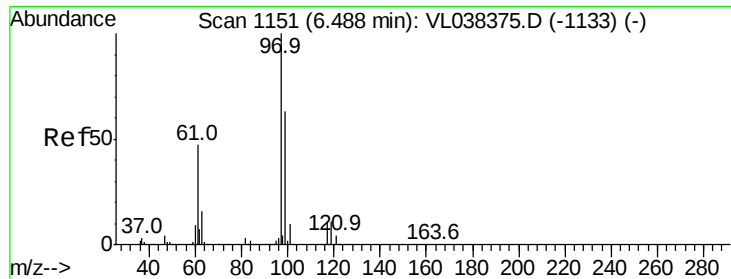
Tgt Ion: 84 Resp: 442276
Ion Ratio Lower Upper
84 100
56 145.1 116.2 174.4
41 84.7 74.3 111.5



#31
cis-1,2-Dichloroethene
Concen: 0.12 ppbv
RT: 5.56 min Scan# 862
Delta R.T. 0.03 min
Lab File: VL038469.D
Acq: 2 Mar 2022 2:55

Tgt Ion: 61 Resp: 10761
Ion Ratio Lower Upper
61 100
96 48.1 48.6 73.0#
98 34.7 33.2 49.8





#32

1,1,1-Trichloroethane

Concen: 0.52 ppbv

RT: 6.52 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 2 Mar 2022 2:55

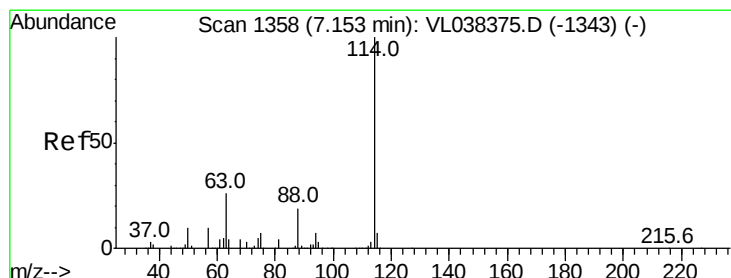
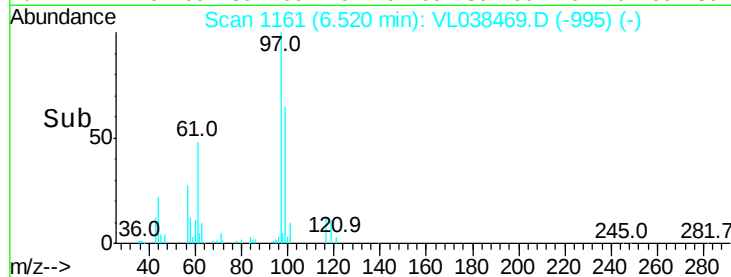
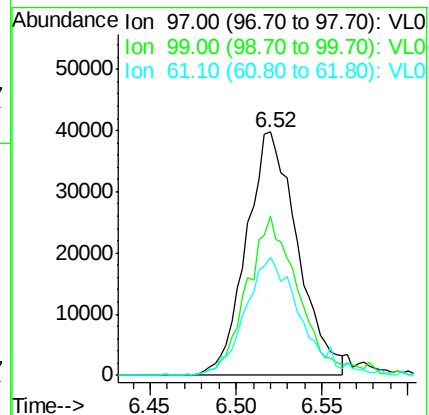
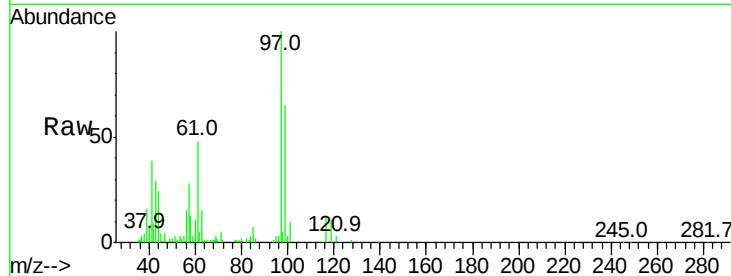
Tgt Ion: 97 Resp: 82441

Ion Ratio Lower Upper

97 100

99 67.0 51.9 77.9

61 52.7 40.5 60.7



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.03 min

Lab File: VL038469.D

Acq: 2 Mar 2022 2:55

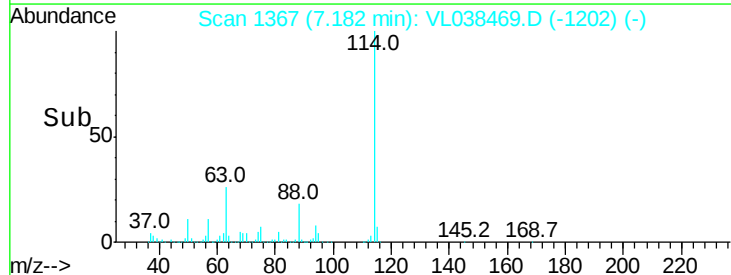
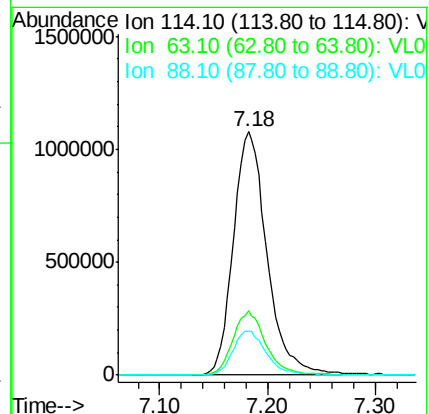
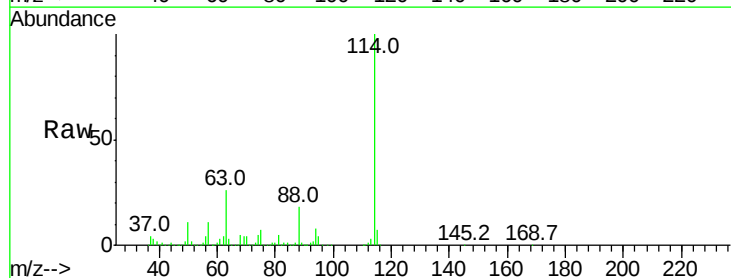
Tgt Ion: 114 Resp: 2333361

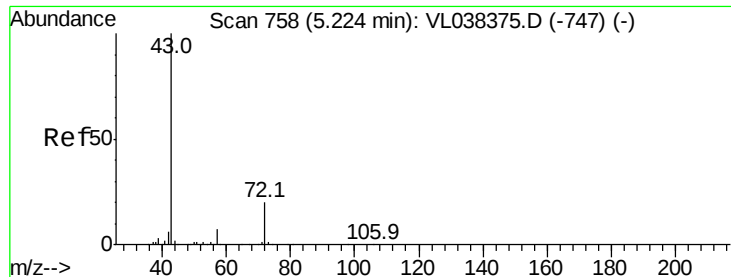
Ion Ratio Lower Upper

114 100

63 26.2 22.2 33.2

88 18.3 15.2 22.8





#34

2-Butanone

Concen: 6.01 ppbv

RT: 5.25 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

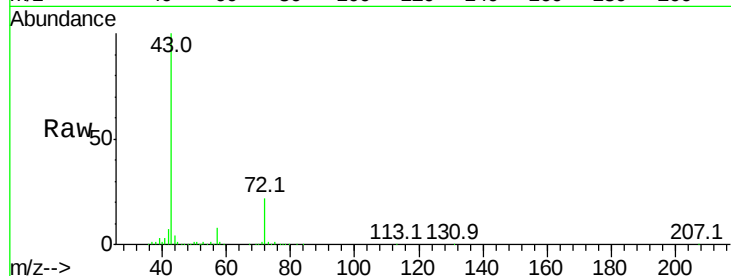
Acq: 2 Mar 2022 2:55 FSG1

Tgt Ion: 43 Resp: 440975

Ion Ratio Lower Upper

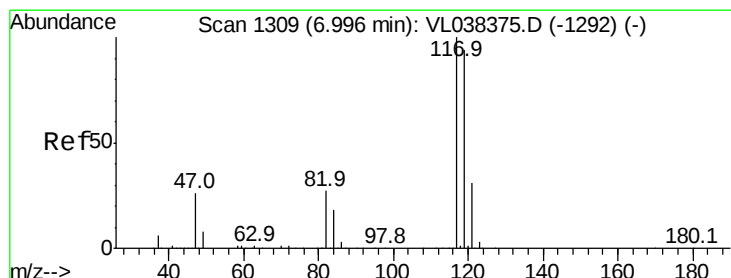
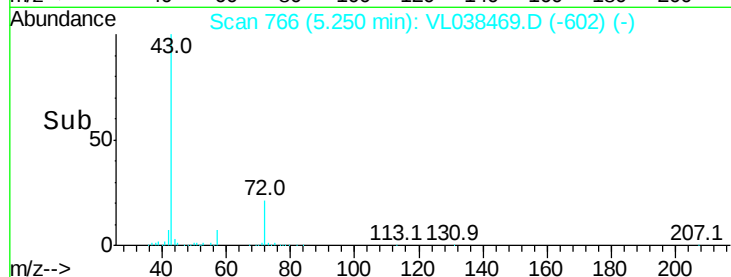
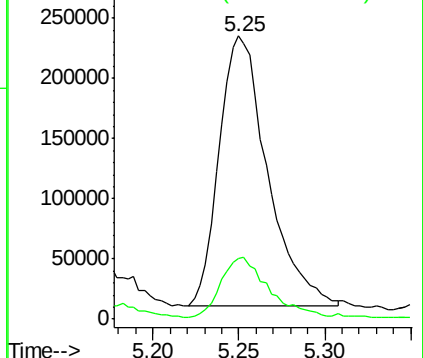
43 100

72 24.9 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.04 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. 0.03 min

Lab File: VL038469.D

Acq: 2 Mar 2022 2:55

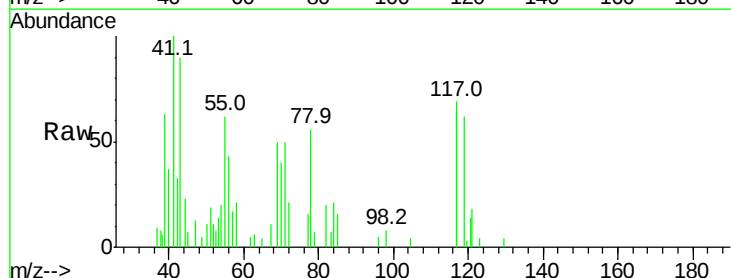
Tgt Ion: 117 Resp: 6948

Ion Ratio Lower Upper

117 100

119 39.2 74.9 112.3#

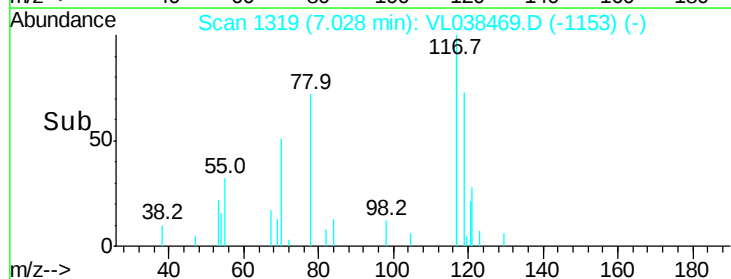
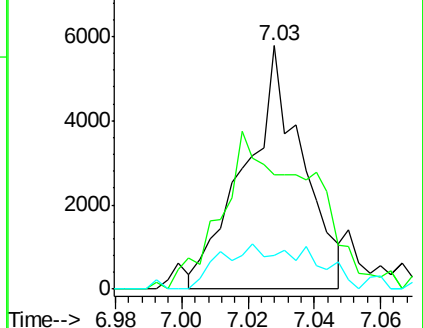
121 14.5 24.8 37.2#

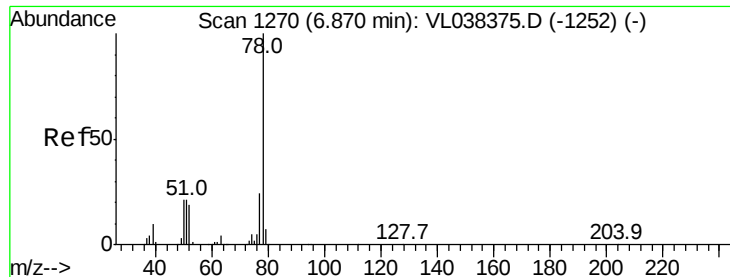


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 10.70 ppbv

RT: 6.90 Instrument:

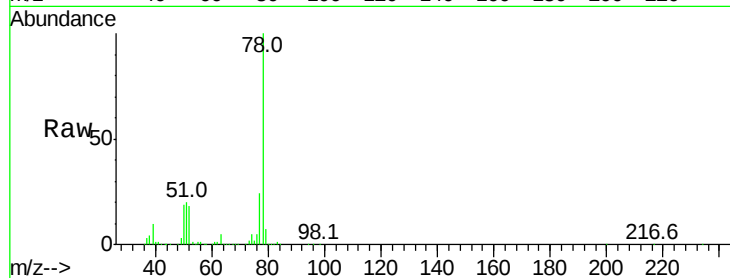
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 2 Mar 2022 2:55 FSG1

Tgt Ion: 78 Resp: 2197885

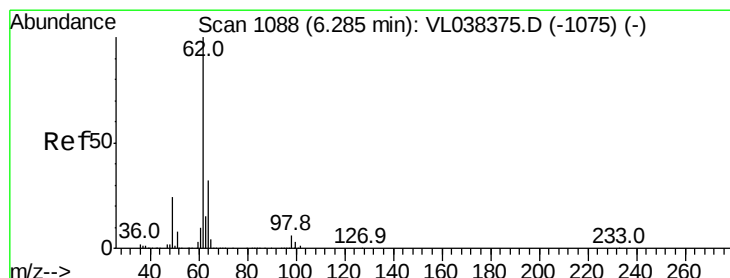
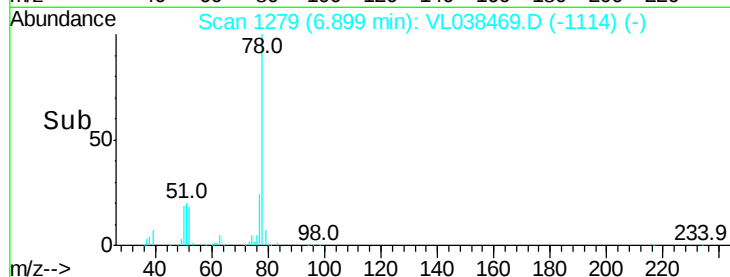
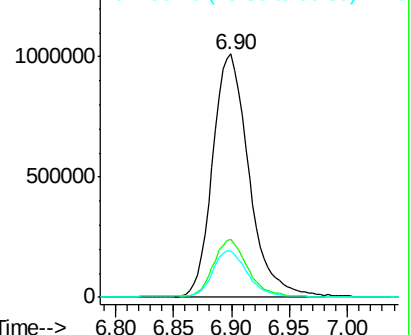
Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6
50	18.7	16.6	24.8



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.05 ppbv

RT: 6.31 min Scan# 1095

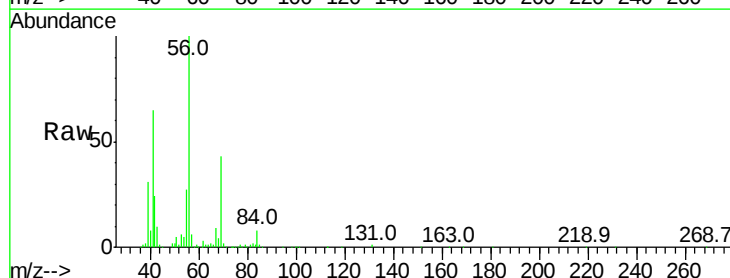
Delta R.T. 0.02 min

Lab File: VL038469.D

Acq: 2 Mar 2022 2:55

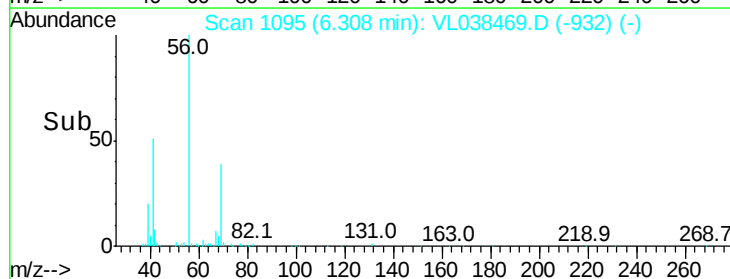
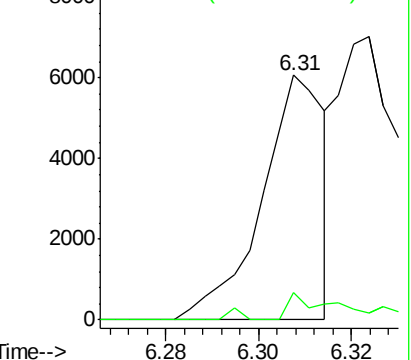
Tgt Ion: 62 Resp: 5675

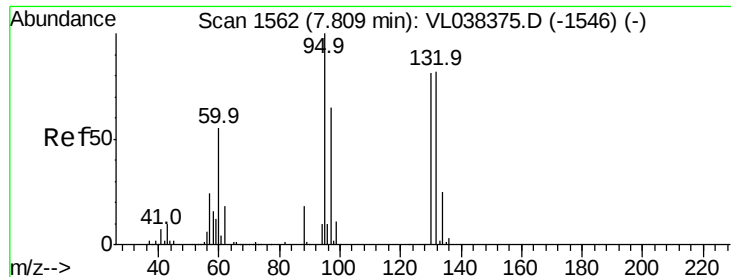
Ion	Ratio	Lower	Upper
62	100		
98	12.2	4.6	7.0



Abundance Ion 62.10 (61.80 to 62.80): VL0

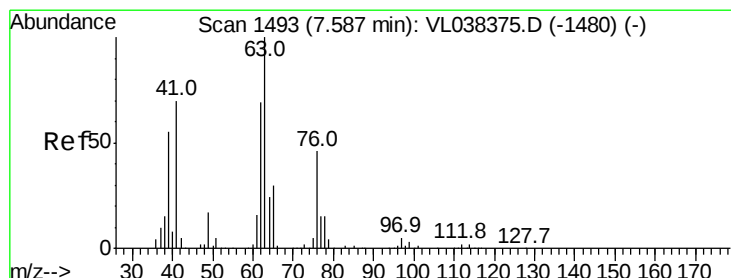
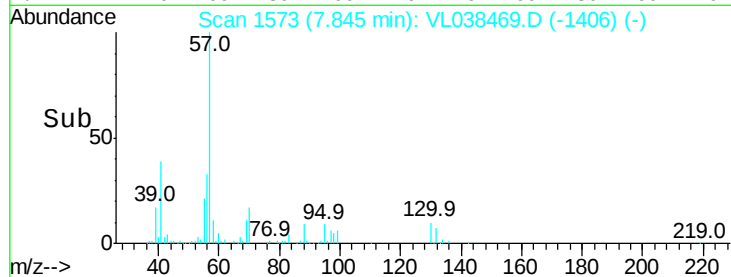
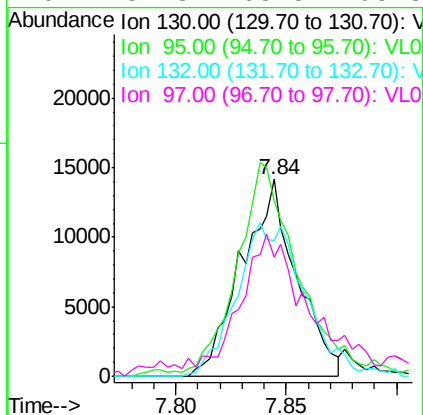
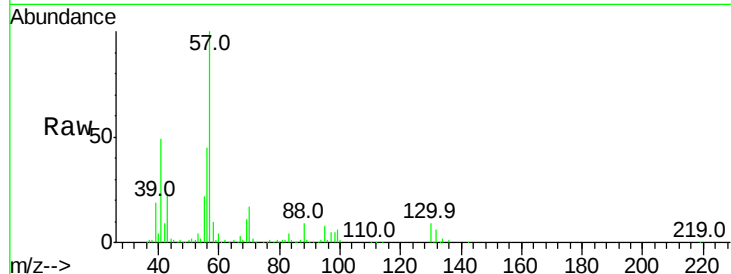
Ion 98.00 (97.70 to 98.70): VL0





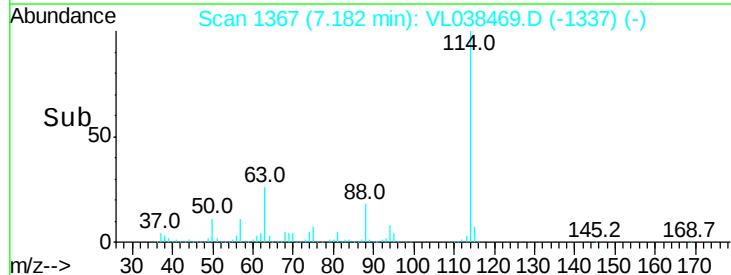
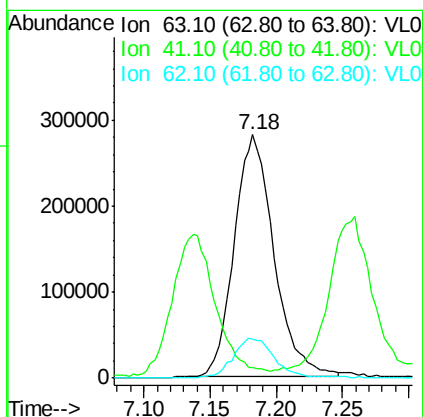
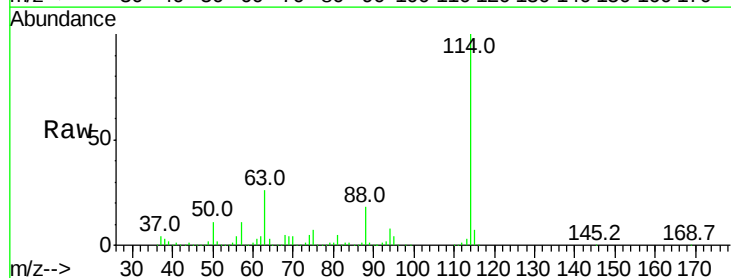
#38
 Trichloroethene
 Concen: 0.33 ppbv
 RT: 7.84 Instrument: MSVOA_1
 Delta R.T. ClientSampleId:
 Lab File: FSG1
 Acq: 2 Mar 2022 2:55

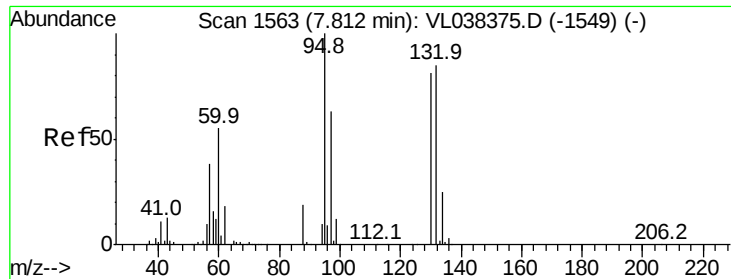
Tgt Ion: 130 Resp: 24513
 Ion Ratio Lower Upper
 130 100
 95 85.5 98.1 147.1#
 132 67.2 80.3 120.5#
 97 51.3 63.5 95.3#



#39
 1,2-Dichloropropane
 Concen: 7.13 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.40 min
 Lab File: VL038469.D
 Acq: 2 Mar 2022 2:55

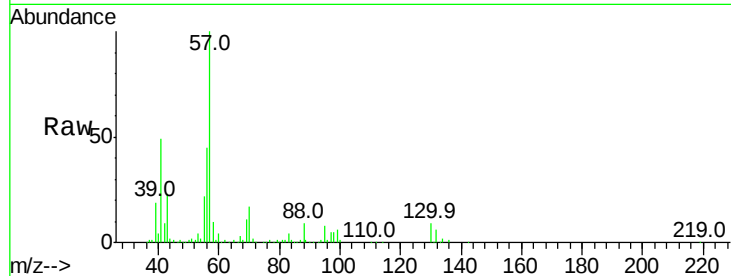
Tgt Ion: 63 Resp: 583345
 Ion Ratio Lower Upper
 63 100
 41 0.0 56.1 84.1#
 62 16.0 55.5 83.3#



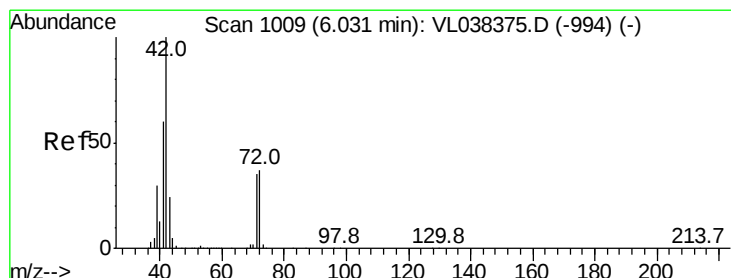
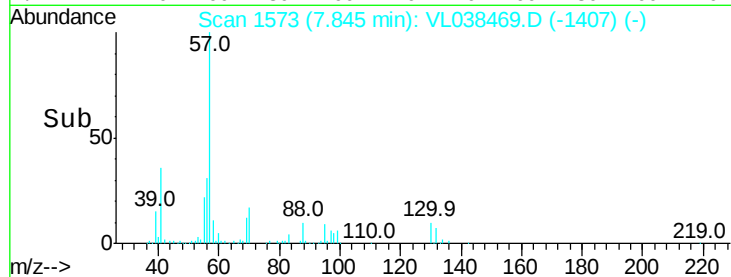
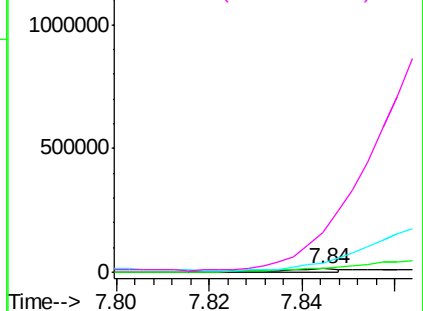


#40
 1,4-Dioxane
 Concen: 0.71 ppbv
 RT: 7.84
 Delta R.T.:
 Lab File: MSVOA_1
 ClientSampleId:
 FSG1
 Acq: 2 Mar 2022 2:55

Tgt Ion: 88 Resp: 13871
 Ion Ratio Lower Upper
 88 100
 58 0.0 133.2 199.8#
 43 0.0 330.6 496.0#
 57 0.0 1462.7 2194.1#

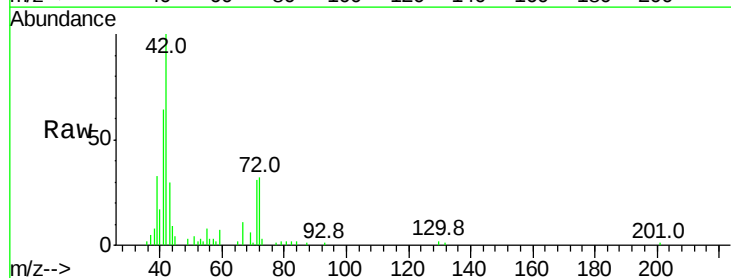


Abundance Ion 88.10 (87.80 to 88.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0
 Ion 43.10 (42.80 to 43.80): VL0
 Ion 57.10 (56.80 to 57.80): VL0

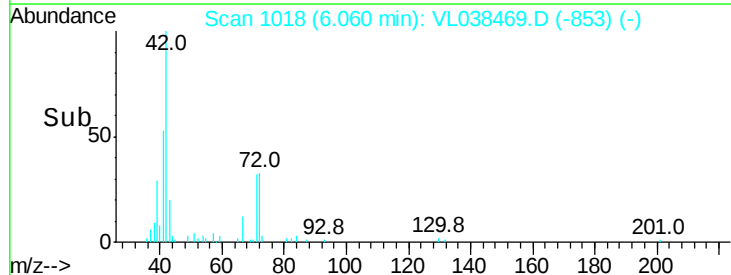
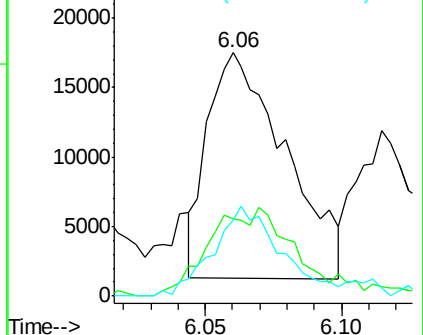


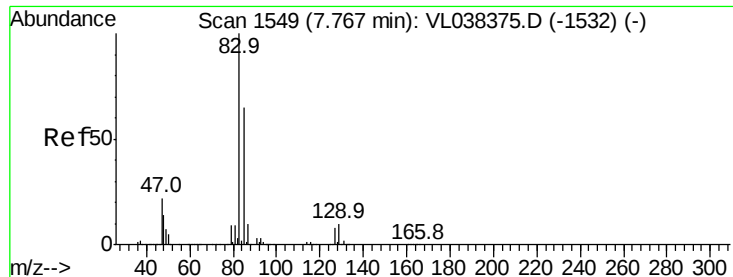
#41
 Tetrahydrofuran
 Concen: 0.65 ppbv
 RT: 6.06 min Scan# 1018
 Delta R.T.: 0.03 min
 Lab File: VL038469.D
 Acq: 2 Mar 2022 2:55

Tgt Ion: 42 Resp: 32228
 Ion Ratio Lower Upper
 42 100
 72 46.9 29.9 44.9#
 71 39.6 28.6 42.8



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





#42

Bromodichloromethane

Concen: 0.16 ppbv

RT: 7.80 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 2 Mar 2022 2:55

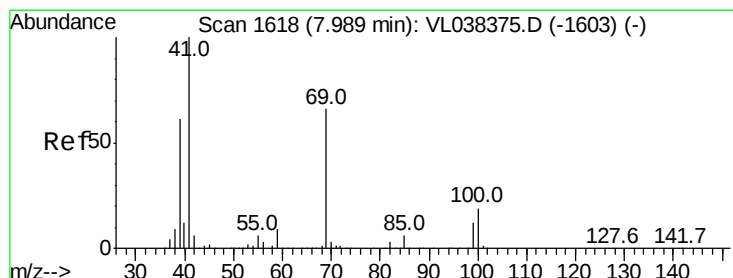
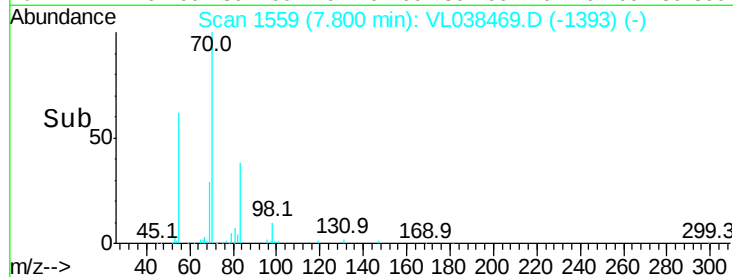
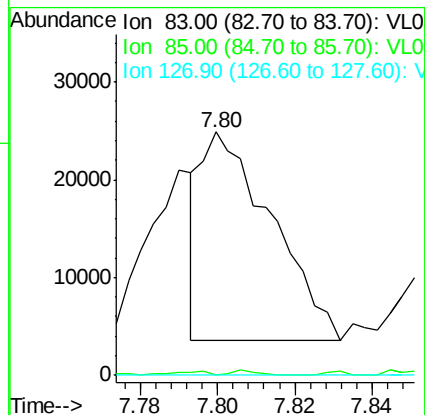
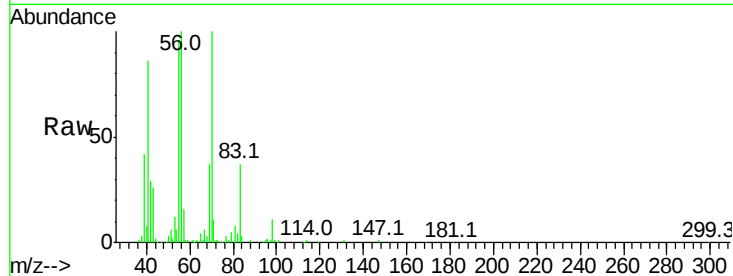
Tgt Ion: 83 Resp: 26908

Ion Ratio Lower Upper

83 100

85 0.0 52.2 78.4#

127 0.0 6.2 9.4#



#43

Methyl Methacrylate

Concen: 0.06 ppbv

RT: 8.01 min Scan# 1626

Delta R.T. 0.03 min

Lab File: VL038469.D

Acq: 2 Mar 2022 2:55

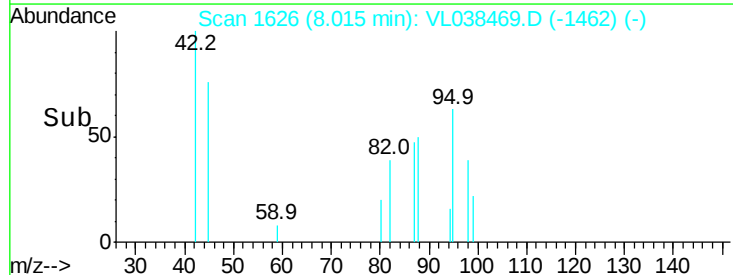
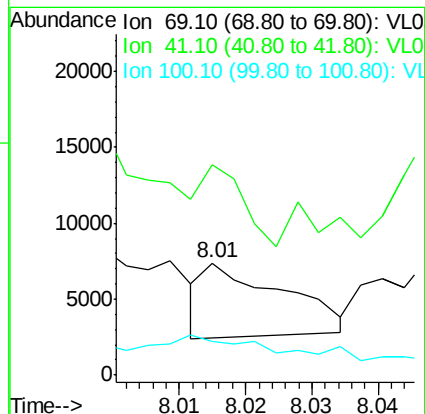
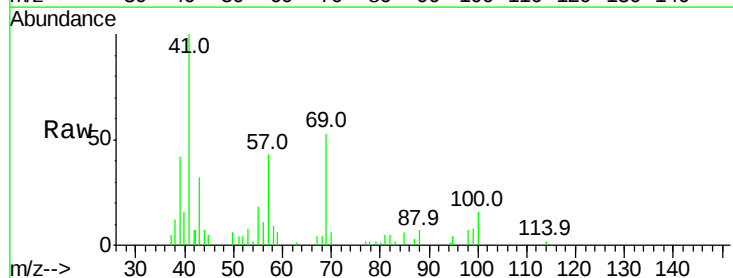
Tgt Ion: 69 Resp: 4073

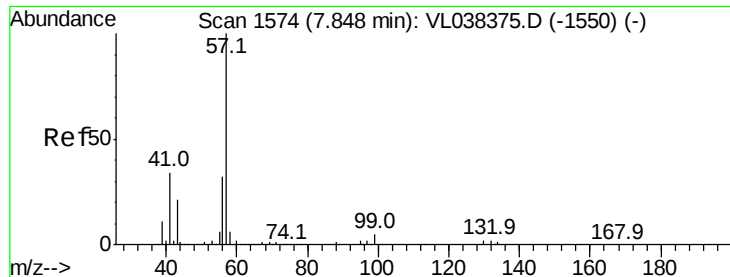
Ion Ratio Lower Upper

69 100

41 0.0 122.9 184.3#

100 0.0 23.6 35.4#





#44

2,2,4-Trimethylpentane

Concen: 7.37 ppbv

RT: 7.88 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 2 Mar 2022 2:55 FSG1

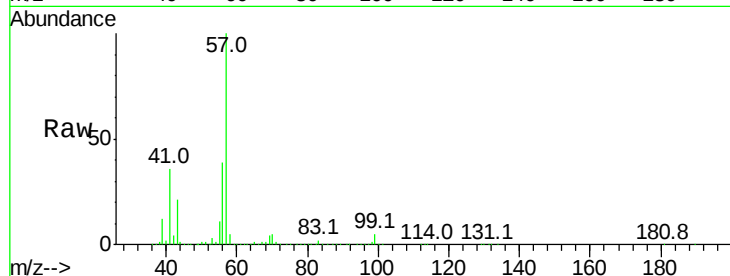
Tgt Ion: 57 Resp: 2601758

Ion Ratio Lower Upper

57 100

41 38.5 26.6 39.8

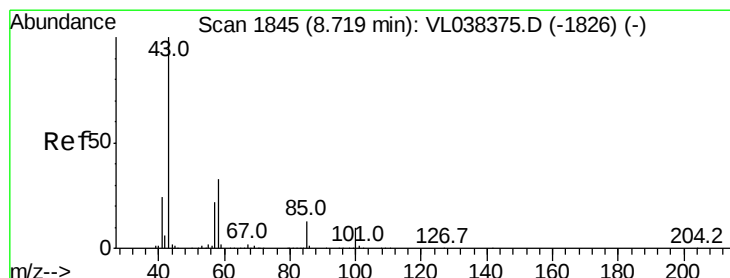
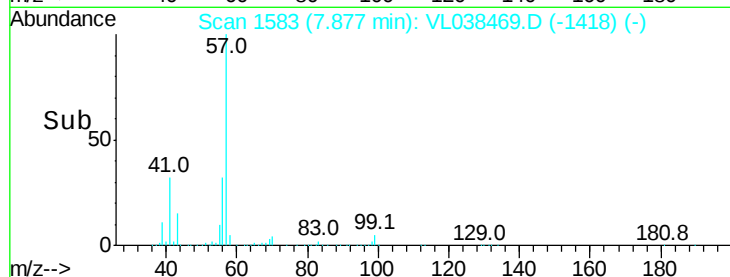
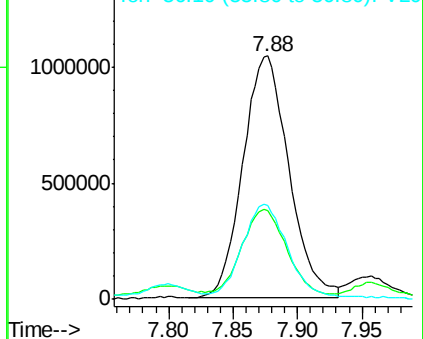
56 40.1 25.0 37.6#



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



#50

4-Methyl-2-Pentanone

Concen: 0.45 ppbv

RT: 8.75 min Scan# 1855

Delta R.T. 0.03 min

Lab File: VL038469.D

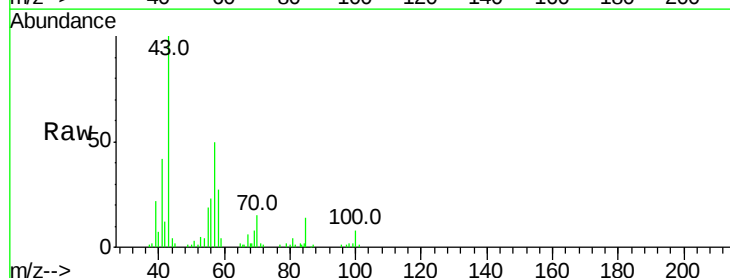
Acq: 2 Mar 2022 2:55

Tgt Ion: 43 Resp: 58344

Ion Ratio Lower Upper

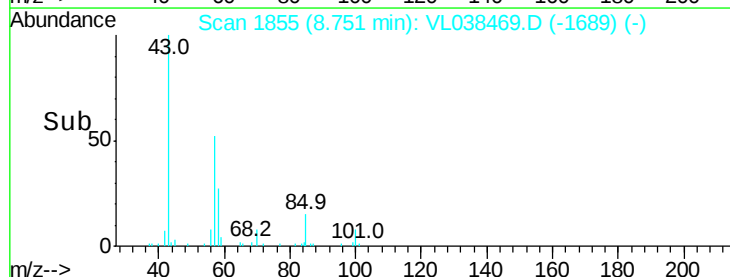
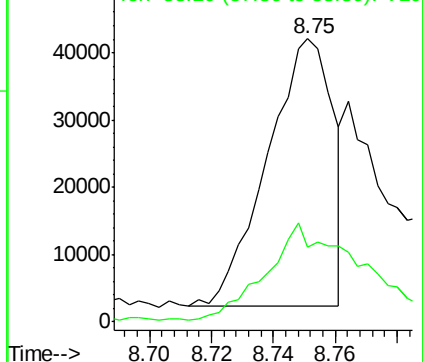
43 100

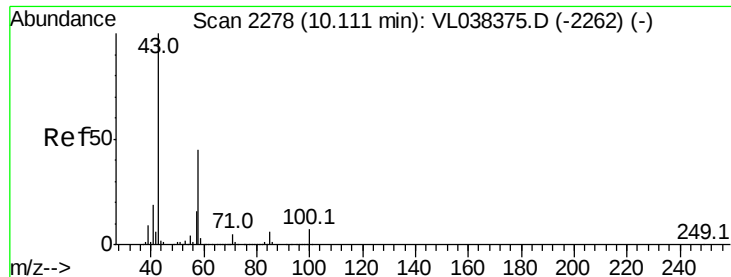
58 60.0 27.7 41.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

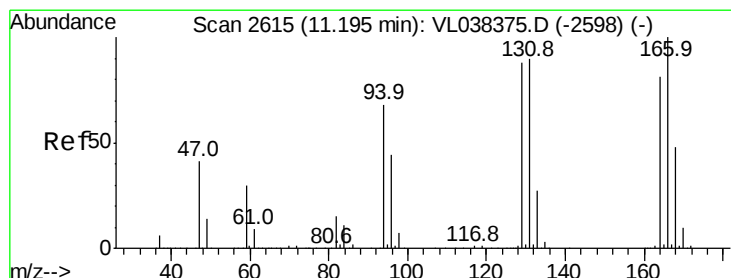
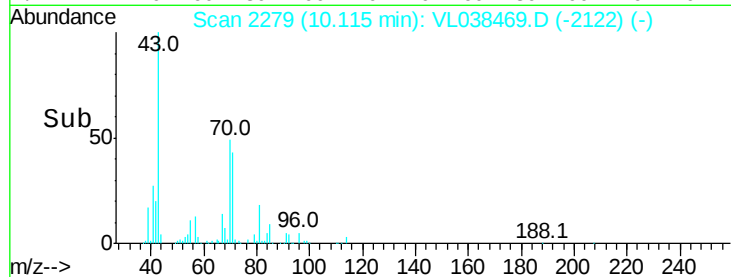
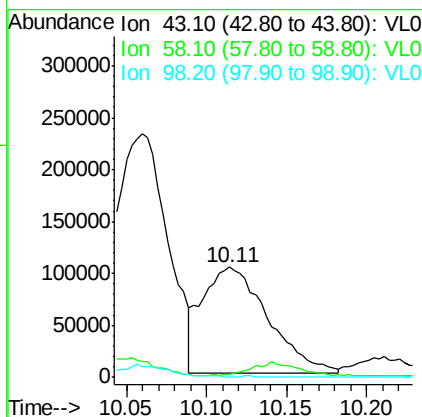
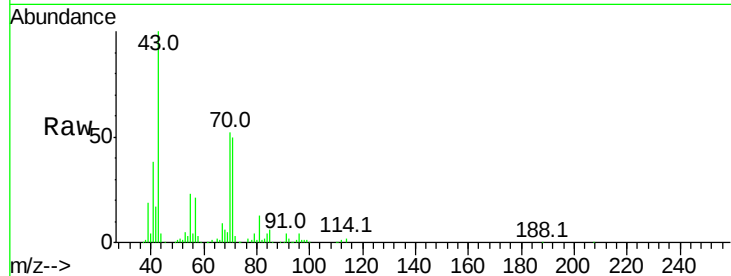
Ion 58.10 (57.80 to 58.80): VL0





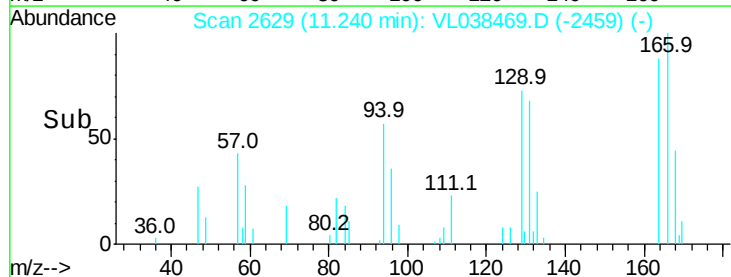
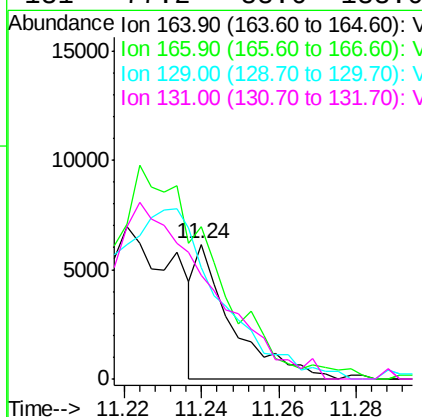
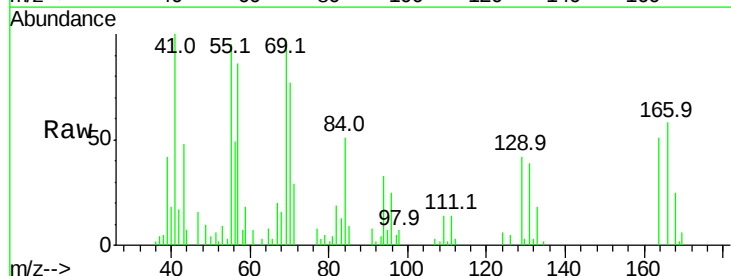
#51
2-Hexanone
Concen: 5.01 ppbv
RT: 10.11 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 2:55

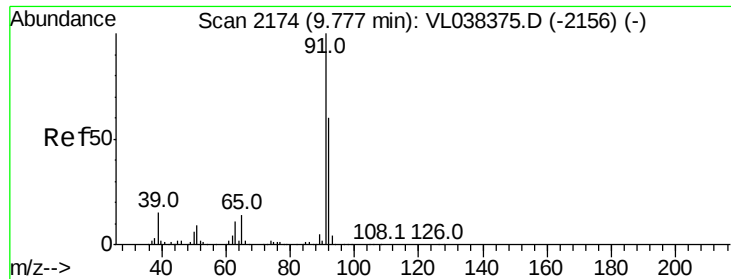
Tgt Ion: 43 Resp: 290951
Ion Ratio Lower Upper
43 100
58 11.5 37.4 56.0#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.06 ppbv
RT: 11.24 min Scan# 2629
Delta R.T. 0.05 min
Lab File: VL038469.D
Acq: 2 Mar 2022 2:55

Tgt Ion: 164 Resp: 4037
Ion Ratio Lower Upper
164 100
166 106.4 98.6 148.0
129 83.9 86.9 130.3#
131 77.2 88.6 133.0#





#53

Toluene

Concen: 22.58 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

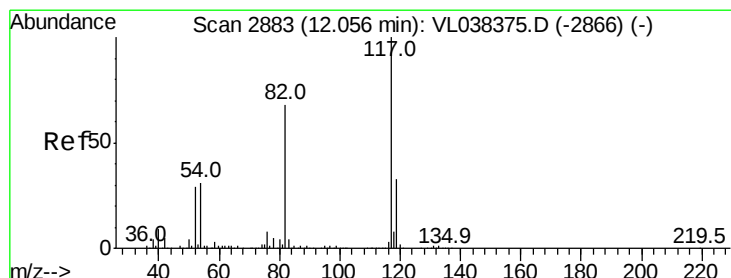
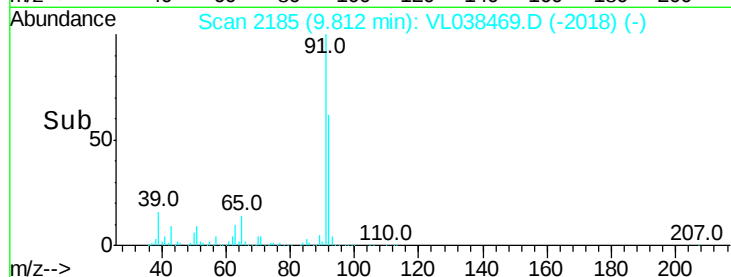
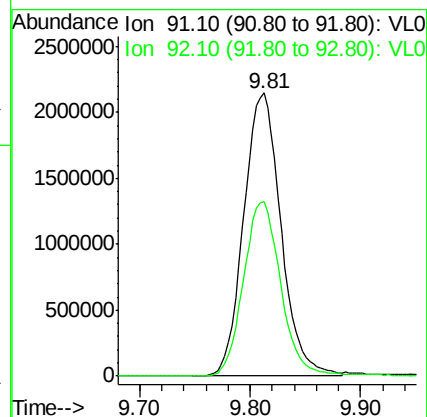
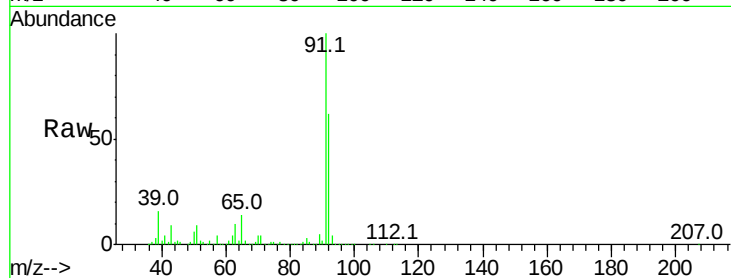
Acq: 2 Mar 2022 2:55 FSG1

Tgt Ion: 91 Resp: 5036601

Ion Ratio Lower Upper

91 100

92 62.3 48.2 72.4



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. 0.03 min

Lab File: VL038469.D

Acq: 2 Mar 2022 2:55

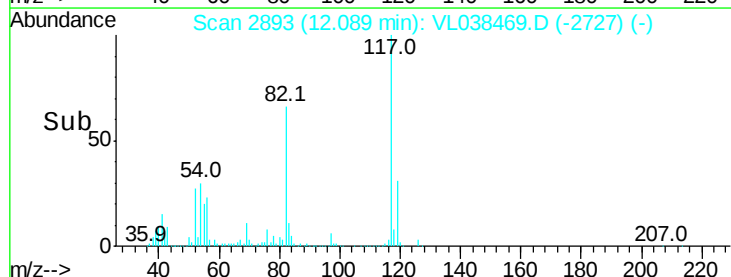
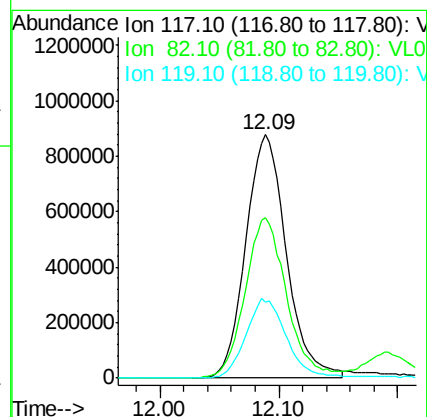
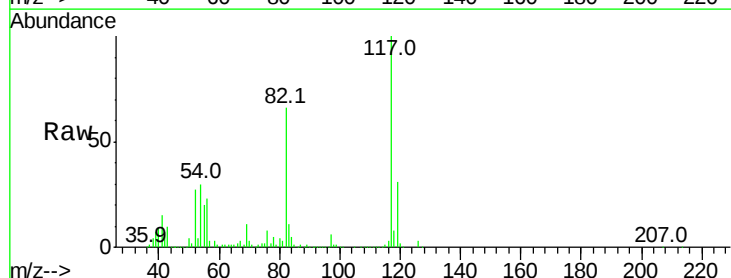
Tgt Ion: 117 Resp: 2070005

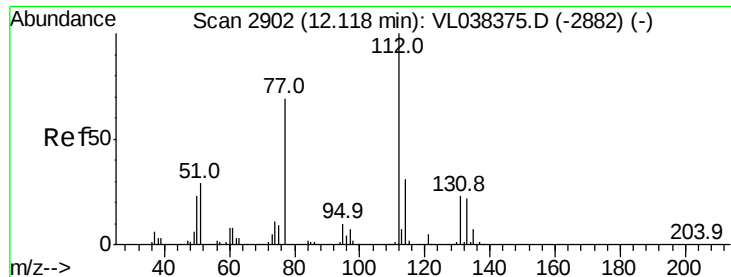
Ion Ratio Lower Upper

117 100

82 67.9 54.9 82.3

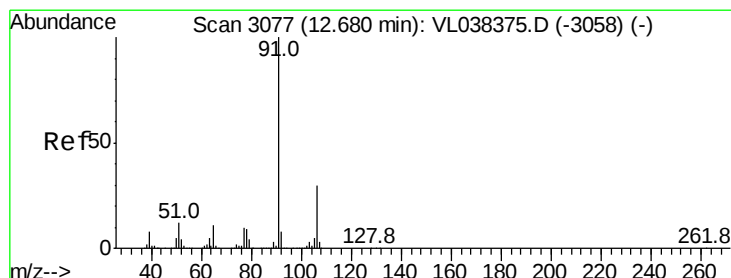
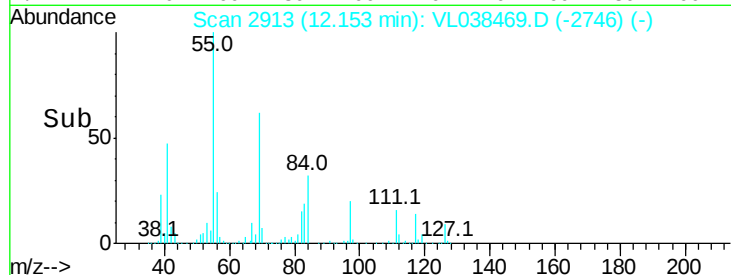
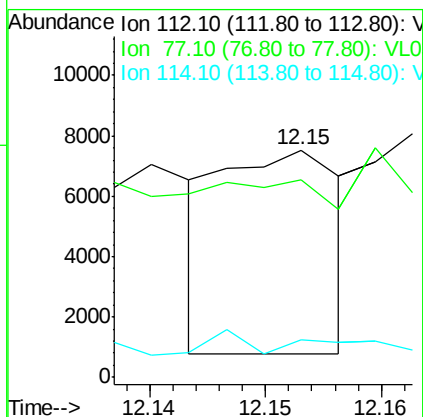
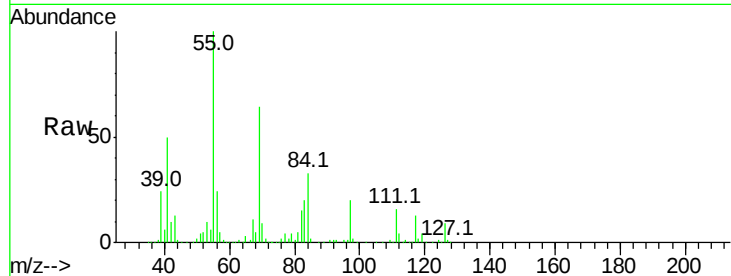
119 33.2 46.1 69.1#





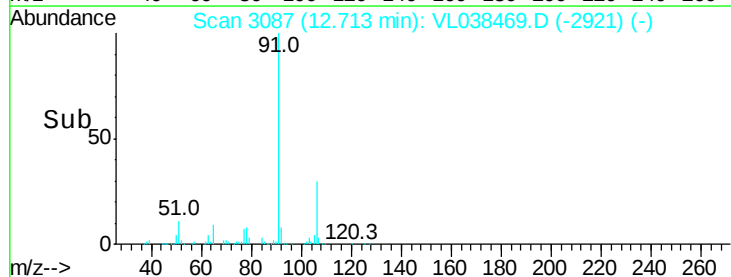
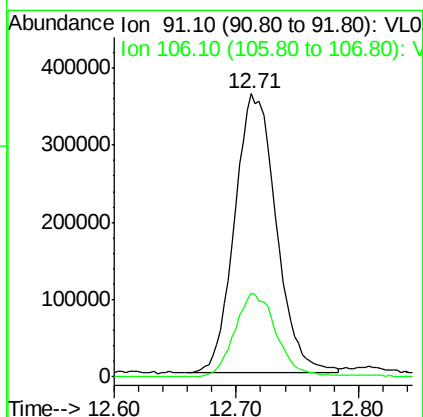
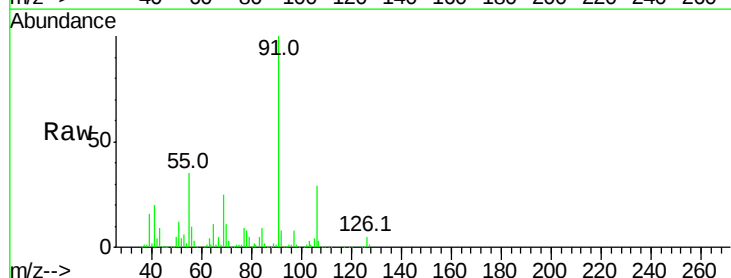
#57
Chlorobenzene
Concen: 0.03 ppbv
RT: 12.15
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 2:55

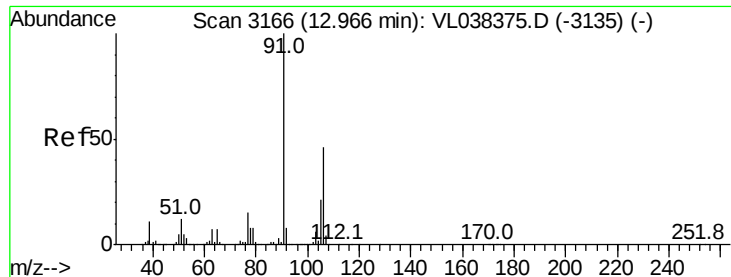
Tgt Ion: 112 Resp: 4819
Ion Ratio Lower Upper
112 100
77 102.8 55.2 82.8#
114 46.4 27.9 34.1#



#58
Ethyl Benzene
Concen: 3.02 ppbv
RT: 12.71 min Scan# 3087
Delta R.T. 0.03 min
Lab File: VL038469.D
Acq: 2 Mar 2022 2:55

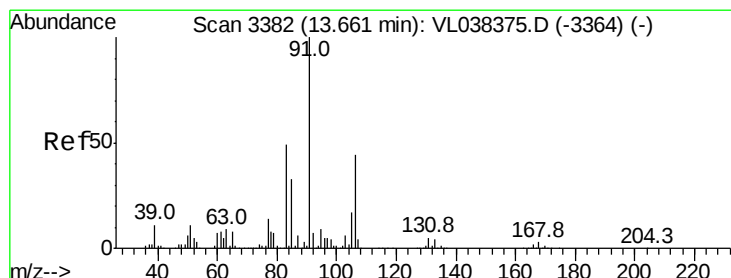
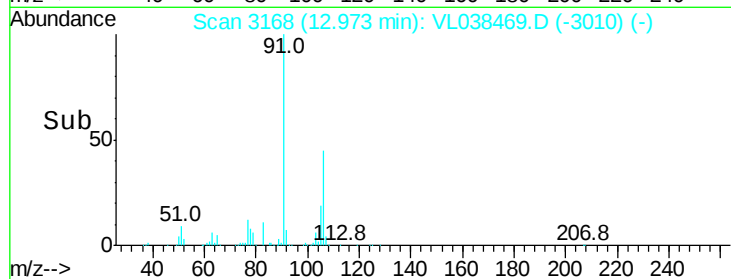
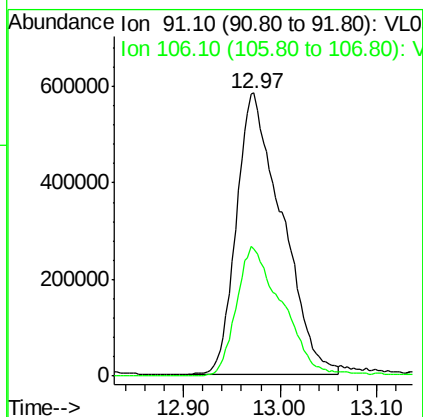
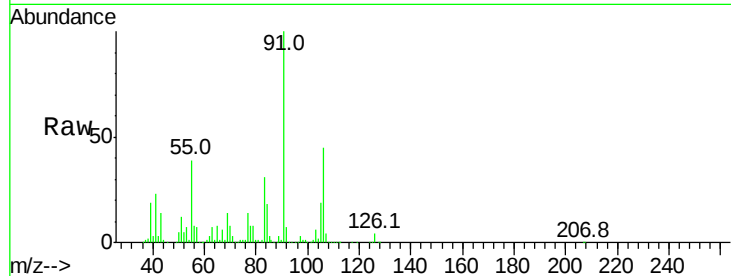
Tgt Ion: 91 Resp: 853826
Ion Ratio Lower Upper
91 100
106 29.9 24.0 36.0





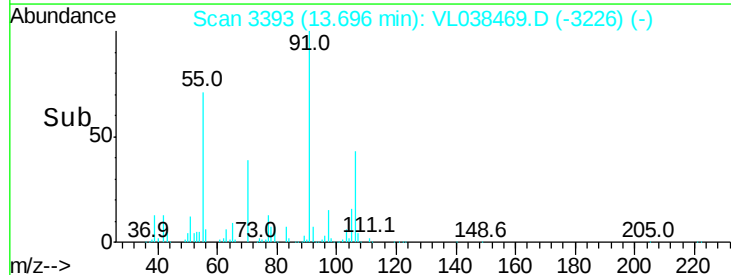
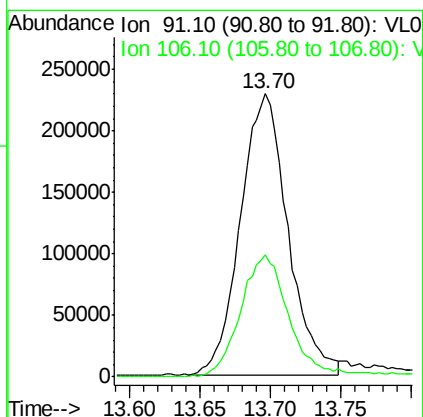
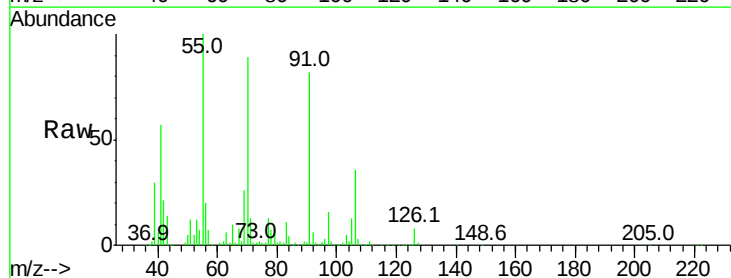
#59
m/p-Xylene
Concen: 7.78 ppbv
RT: 12.97 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 2:55

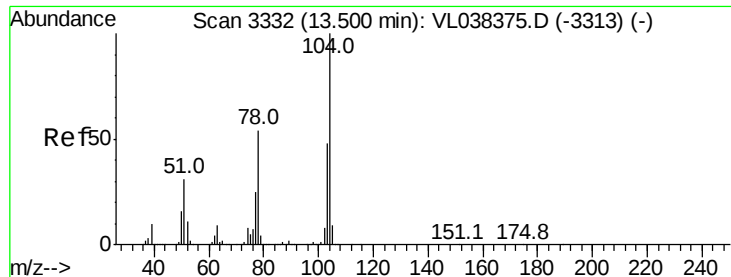
Tgt Ion: 91 Resp: 1890483
Ion Ratio Lower Upper
91 100
106 47.4 34.4 51.6



#60
o-Xylene
Concen: 2.33 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. 0.04 min
Lab File: VL038469.D
Acq: 2 Mar 2022 2:55

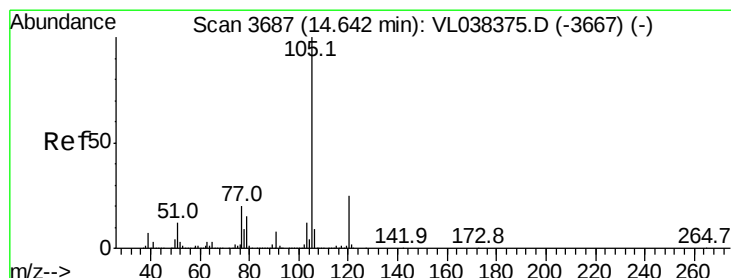
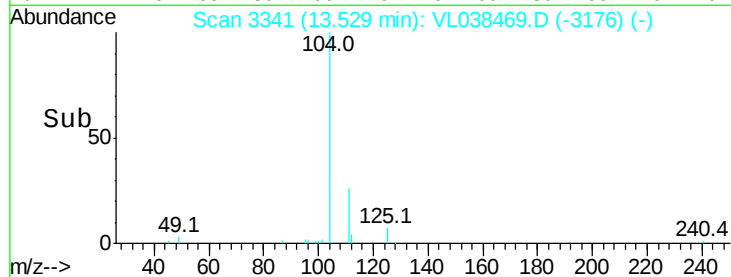
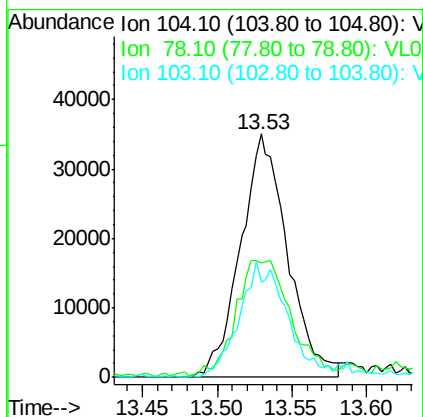
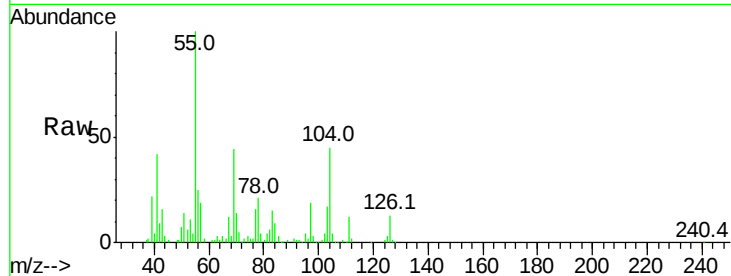
Tgt Ion: 91 Resp: 536082
Ion Ratio Lower Upper
91 100
106 46.6 21.9 65.5





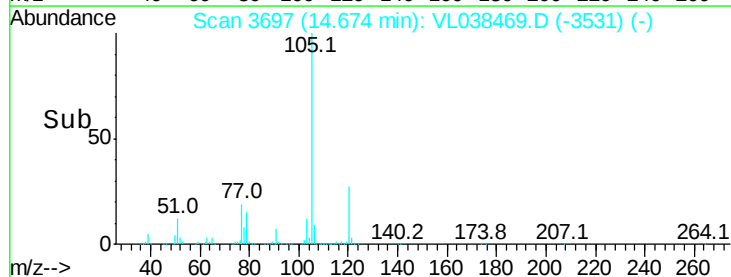
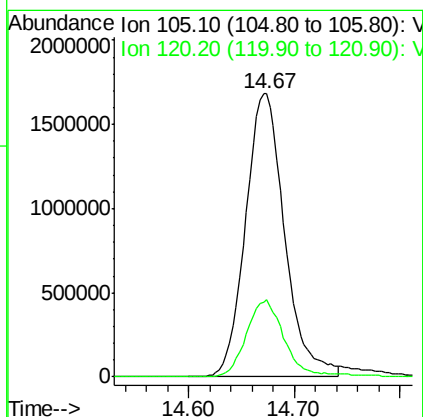
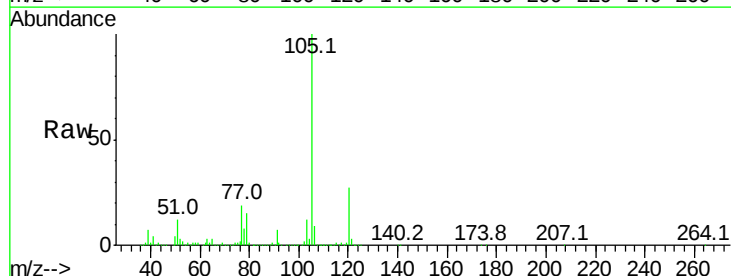
#61
Styrene
Concen: 0.72 ppbv
RT: 13.53
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 2:55

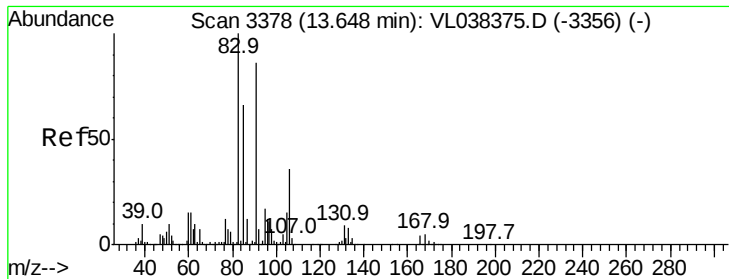
Tgt Ion:104 Resp: 76552
Ion Ratio Lower Upper
104 100
78 60.2 44.2 66.4
103 50.9 38.4 57.6



#62
Isopropylbenzene
Concen: 14.11 ppbv
RT: 14.67 min Scan# 3697
Delta R.T. 0.03 min
Lab File: VL038469.D
Acq: 2 Mar 2022 2:55

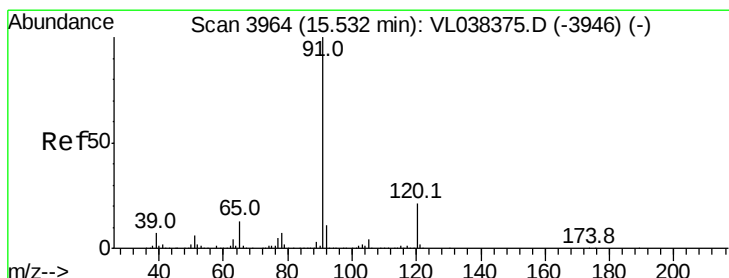
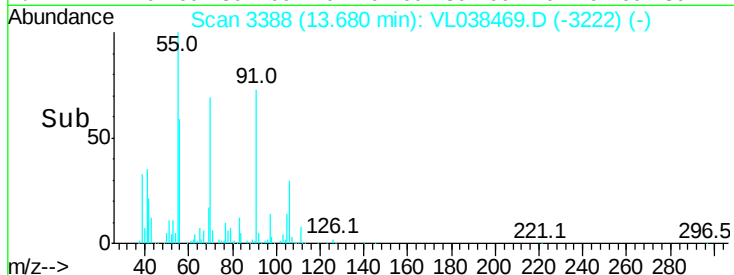
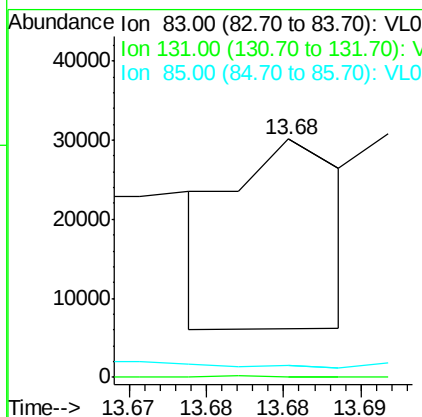
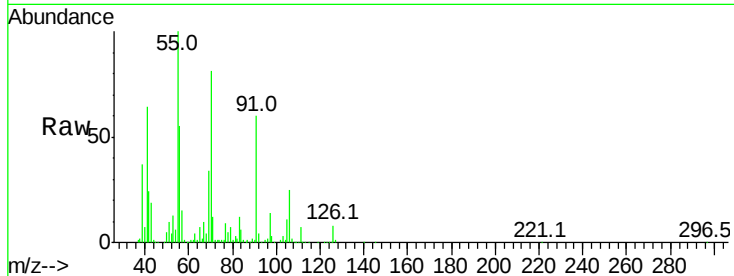
Tgt Ion:105 Resp: 4351211
Ion Ratio Lower Upper
105 100
120 26.9 20.6 30.8





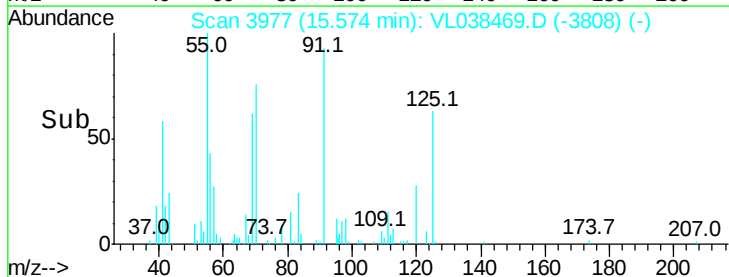
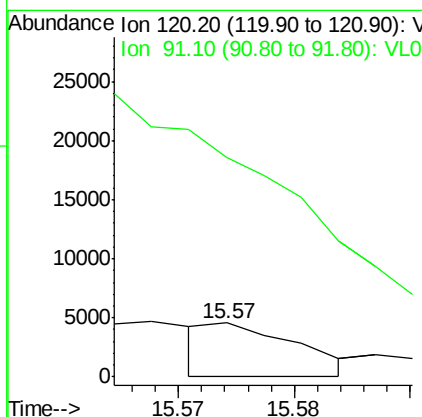
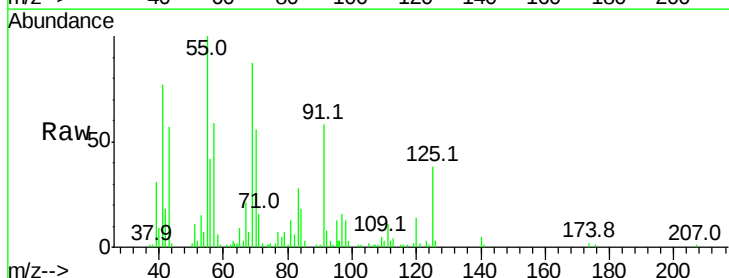
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.06 ppbv
 RT: 13.68
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 2 Mar 2022 2:55

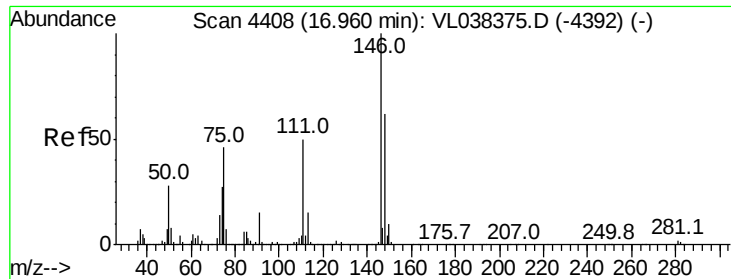
Tgt Ion: 83 Resp: 11913
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.5 13.7#
 85 0.0 33.0 99.0#



#64
 n-propylbenzene
 Concen: 0.03 ppbv
 RT: 15.57 min Scan# 3977
 Delta R.T. 0.04 min
 Lab File: VL038469.D
 Acq: 2 Mar 2022 2:55

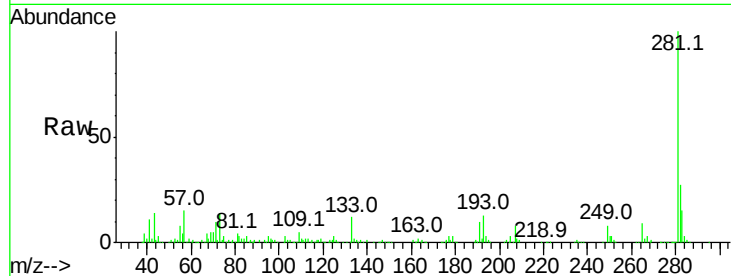
Tgt Ion: 120 Resp: 2407
 Ion Ratio Lower Upper
 120 100
 91 0.0 388.1 582.1#



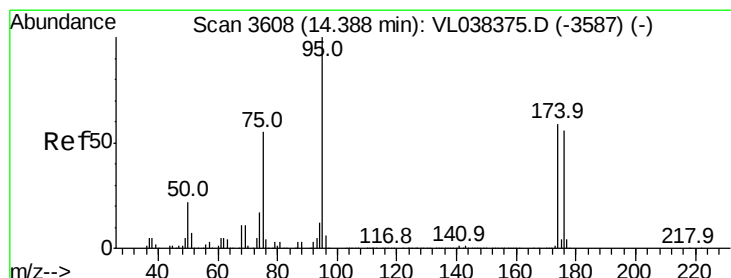
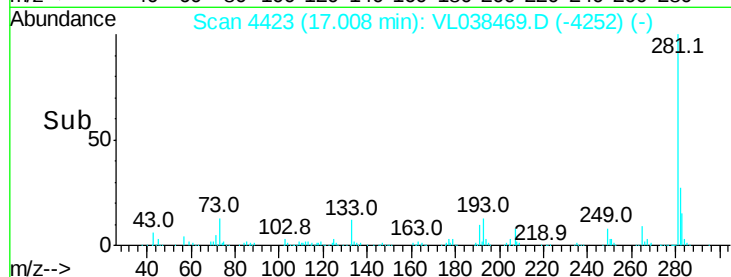
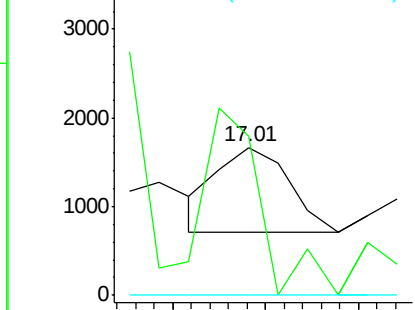


#66
Benzyl Chloride
Concen: 0.04 ppbv
RT: 17.01 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId : FSG1
Acq: 2 Mar 2022 2:55

Tgt Ion: 91 Resp: 513
Ion Ratio Lower Upper
91 100
126 0.0 12.3 18.5#
128 0.0 4.2 6.4#

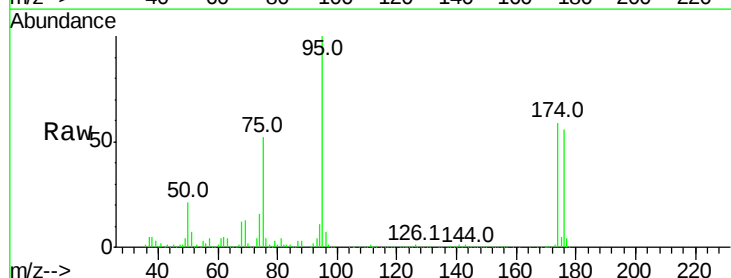


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V
Ion 128.10 (127.80 to 128.80): V

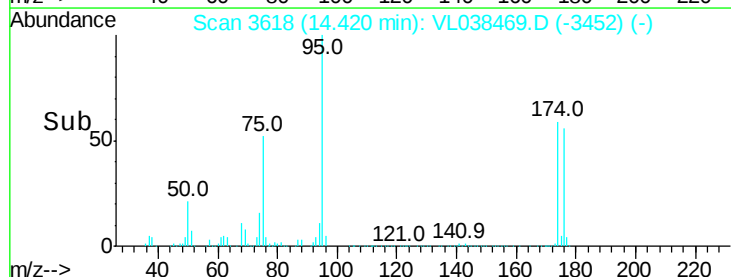
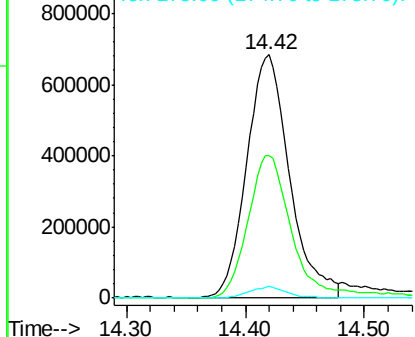


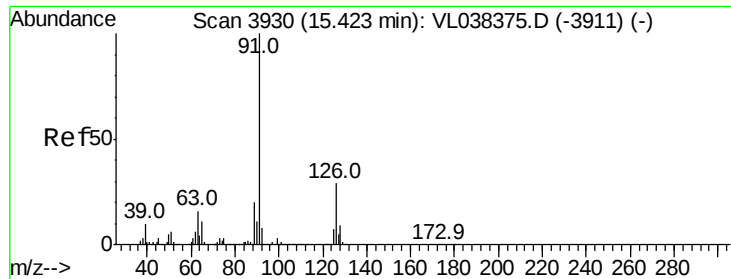
#68
1-Bromo-4-Fluorobenzene
Concen: 9.93 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. 0.03 min
Lab File: VL038469.D
Acq: 2 Mar 2022 2:55

Tgt Ion: 95 Resp: 1700686
Ion Ratio Lower Upper
95 100
174 62.2 49.0 73.4
175 4.8 3.6 5.4



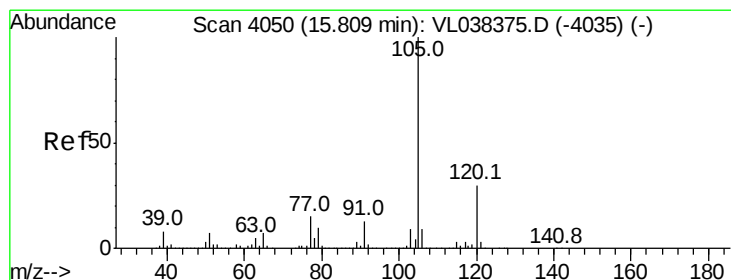
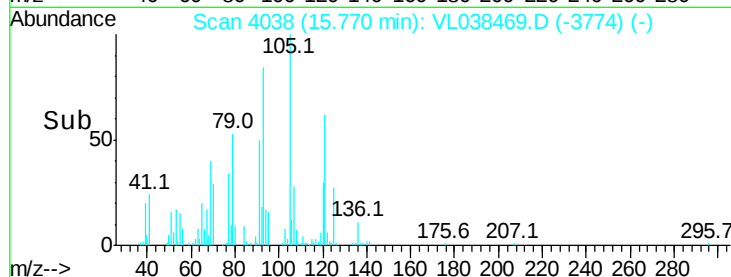
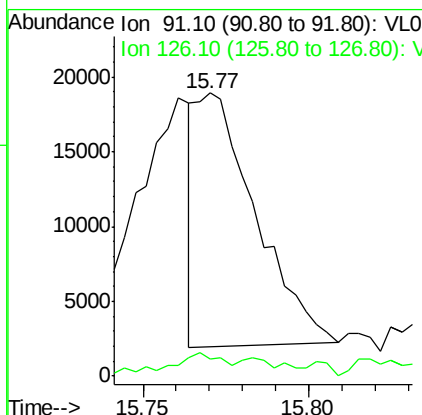
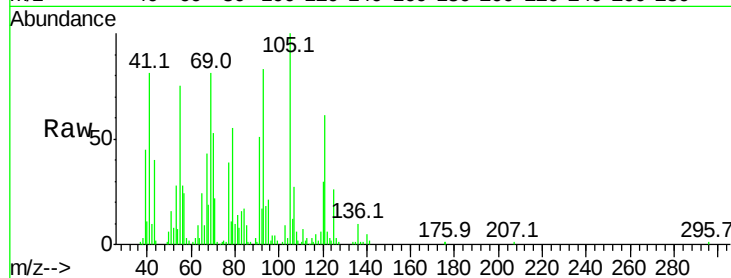
Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V





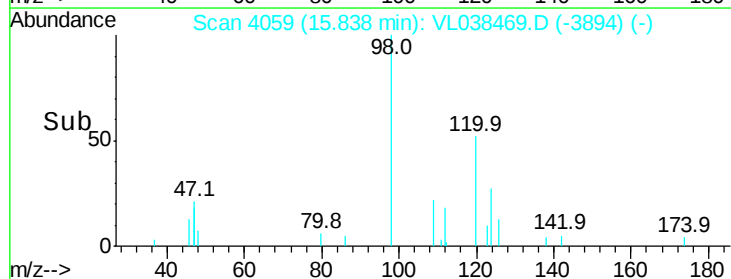
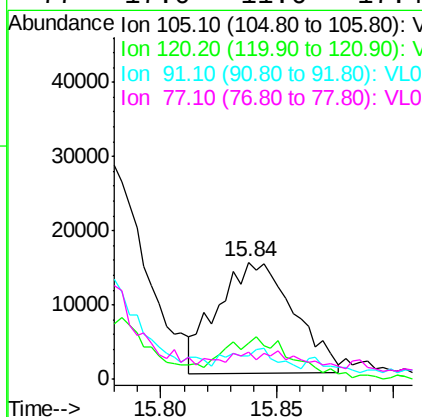
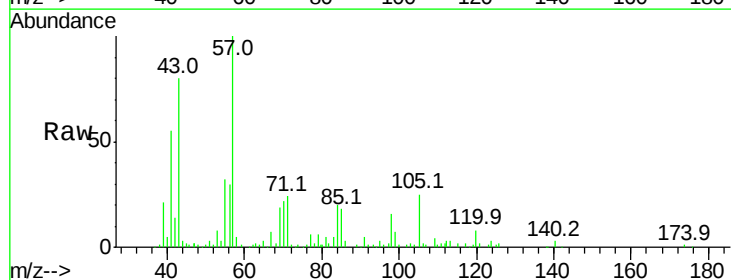
#71
 2-Chlorotoluene
 Concen: 0.09 ppbv
 RT: 15.77 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : FSG1
 Acq: 2 Mar 2022 2:55

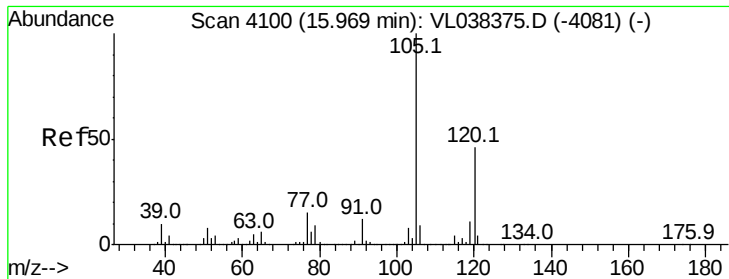
Tgt Ion: 91 Resp: 20969
 Ion Ratio Lower Upper
 91 100
 126 17.0 11.9 47.7



#72
 4-Ethyltoluene
 Concen: 0.14 ppbv
 RT: 15.84 min Scan# 4059
 Delta R.T. 0.03 min
 Lab File: VL038469.D
 Acq: 2 Mar 2022 2:55

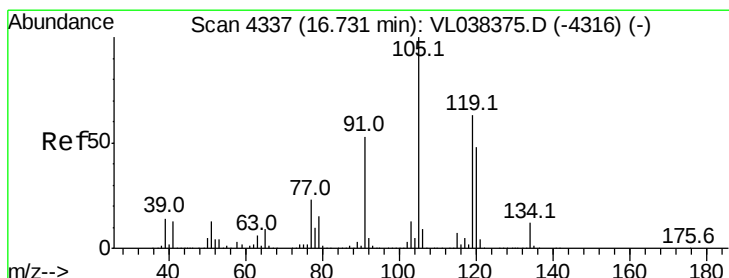
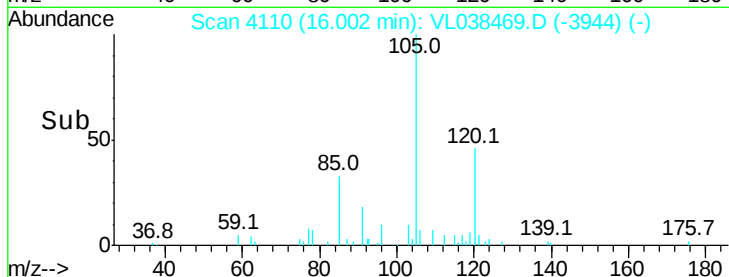
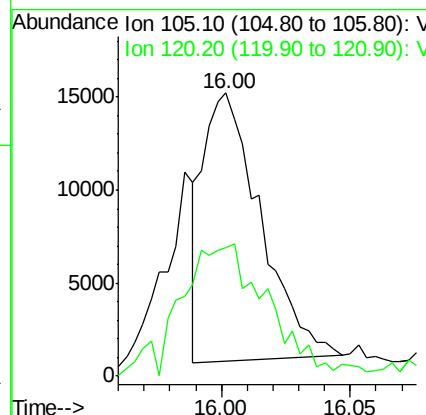
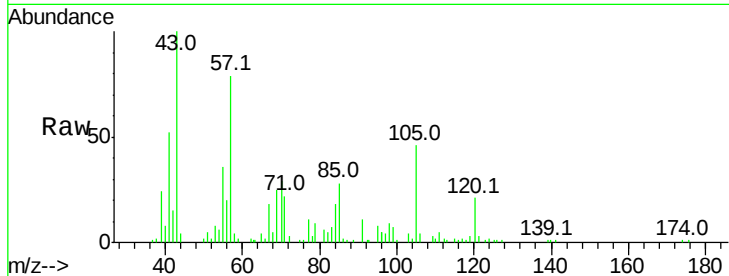
Tgt Ion: 105 Resp: 34193
 Ion Ratio Lower Upper
 105 100
 120 36.9 23.4 35.2#
 91 22.5 10.4 15.6#
 77 17.0 11.6 17.4





#73
 1,3,5-Trimethylbenzene
 Concen: 0.10 ppbv
 RT: 16.00 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 FSG1
 Acq: 2 Mar 2022 2:55

Tgt Ion:105 Resp: 22137
 Ion Ratio Lower Upper
 105 100
 120 44.4 36.6 55.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.25 ppbv
 RT: 16.76 min Scan# 4347
 Delta R.T. 0.03 min
 Lab File: VL038469.D
 Acq: 2 Mar 2022 2:55

Tgt Ion:105 Resp: 60631
 Ion Ratio Lower Upper
 105 100
 120 43.0 38.2 57.4
 91 14.9 42.7 64.1#
 77 10.6 18.5 27.7#

