

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL022222\
 Data File : VL038387.D
 Acq On : 22 Feb 2022 13:44
 Operator : SY/AP
 Sample : N1585-01 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-FAM4GL-3

Quant Time: Feb 23 07:02:34 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	5.66	49	1015620	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2533402	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.07	117	2388178	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2031326	10.28	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	258675	1.61	ppbv	94
3) Chlorodifluoromethane	3.20	51	43937	0.24	ppbv	95
4) Chloromethane	3.14	50	41870	0.67	ppbv	100
5) Vinyl Chloride	3.26	62	417155	6.40	ppbv	95
7) Chloroethane	3.56	64	69858	3.34	ppbv	100
9) Propene	3.01	41	3562869	60.17	ppbv	87
10) Heptane	8.11	43	660896	4.59	ppbv	99
11) Trichlorofluoromethane	3.95	101	16841700	109.35	ppbv #	82
13) Ethanol	3.61	45	4705	0.80	ppbv #	1
15) Acetone	3.84	43	1898620	21.98	ppbv #	55
16) 1,3-Butadiene	3.31	39	972578	16.86	ppbv #	27
17) tert-Butyl alcohol	4.29	59	18175	0.21	ppbv #	72
18) 1,1-Dichloroethene	4.29	96	15379	0.31	ppbv #	61
19) Isopropyl Alcohol	3.97	45	14549	0.29	ppbv #	93
20) Methylene Chloride	4.34	84	136276	3.18	ppbv	96
21) Allyl Chloride	4.37	41	69951	0.96	ppbv #	51
22) trans-1,2-Dichloroethene	4.88	96	17600	0.35	ppbv	98
23) Vinyl Acetate	5.05	43	556790	4.86	ppbv #	1
24) 1,1-Dichloroethane	5.01	63	238071	2.31	ppbv	99
25) Ethyl Acetate	5.68	43	690441	2.98	ppbv #	78
26) Hexane	5.68	57	963308	9.17	ppbv #	43
27) Carbon Disulfide	4.55	76	1534007	13.12	ppbv	98
28) Methyl tert-Butyl Ether	5.03	73	98260	0.92	ppbv	93
29) Chloroform	5.74	83	113427	0.66	ppbv	91
30) Cyclohexane	7.12	84	613292	7.14	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	1067966	10.49	ppbv	96
32) 1,1,1-Trichloroethane	6.50	97	452618	2.62	ppbv	99
34) 2-Butanone	5.24	43	358831	4.50	ppbv	96
35) Carbon Tetrachloride	7.01	117	12515	0.07	ppbv #	85
36) Benzene	6.88	78	2583290	11.58	ppbv	97
37) 1,2-Dichloroethane	6.31	62	4047	0.03	ppbv #	27
38) Trichloroethene	7.83	130	322451	3.97	ppbv	91
39) 1,2-Dichloropropane	7.17	63	647442	7.29	ppbv #	25
41) Tetrahydrofuran	5.97	42	25689	0.48	ppbv #	58
42) Bromodichloromethane	7.78	83	45318	0.24	ppbv #	34
43) Methyl Methacrylate	8.00	69	40164	0.52	ppbv #	1
44) 2,2,4-Trimethylpentane	7.86	57	182465	0.48	ppbv #	1
48) Dibromochloromethane	10.29	129	4922	0.03	ppbv	77
50) 4-Methyl-2-Pentanone	8.74	43	57890	0.41	ppbv #	40
51) 2-Hexanone	10.10	43	206466	3.27	ppbv #	33
52) Tetrachloroethene	11.21	164	587450	7.93	ppbv	98

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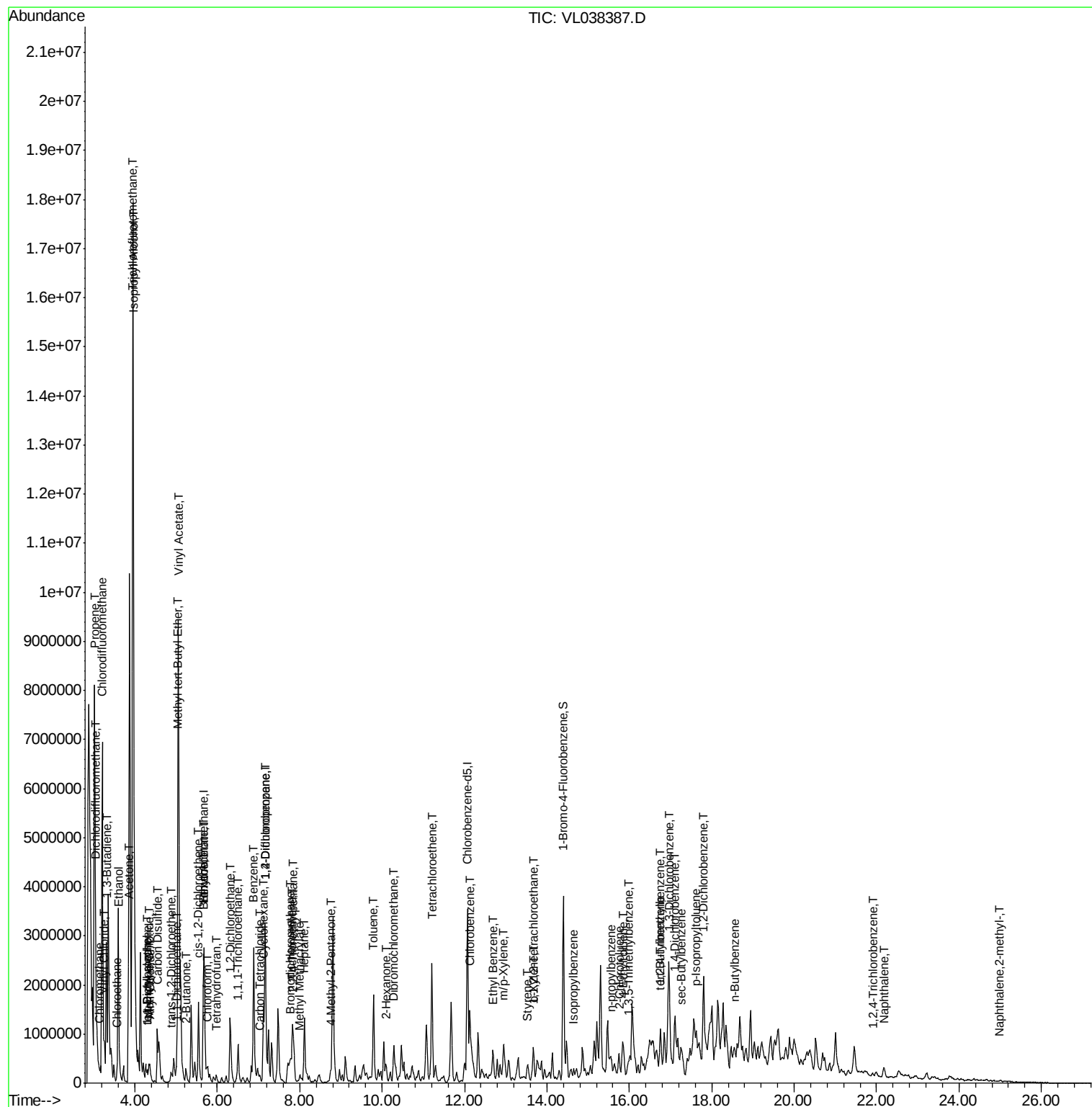
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) Toluene	9.79	91	1440720	5.95	ppbv	100
57) Chlorobenzene	12.13	112	844901	4.59	ppbv	100
58) Ethyl Benzene	12.69	91	435574	1.33	ppbv	99
59) m/p-Xylene	12.95	91	634298	2.26	ppbv	95
60) o-Xylene	13.67	91	486467	1.83	ppbv	99
61) Styrene	13.52	104	17338	0.14	ppbv #	56
62) Isopropylbenzene	14.65	105	175564	0.49	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.66	83	7042	0.03	ppbv #	8
64) n-propylbenzene	15.55	120	6971	0.08	ppbv #	1
65) tert-Butylbenzene	16.73	119	26306	0.09	ppbv #	1
67) sec-Butylbenzene	17.27	105	67522	0.15	ppbv	99
69) p-Isopropyltoluene	17.64	119	141841	0.41	ppbv #	90
70) n-Butylbenzene	18.54	91	25712	0.07	ppbv #	1
71) 2-Chlorotoluene	15.75	91	19871	0.07	ppbv	92
72) 4-Ethyltoluene	15.83	105	33842	0.12	ppbv #	42
73) 1,3,5-Trimethylbenzene	15.98	105	172791	0.65	ppbv	98
74) 1,2,4-Trimethylbenzene	16.74	105	239104	0.85	ppbv #	70
75) 1,3-Dichlorobenzene	16.98	146	65243	0.42	ppbv #	49
76) 1,4-Dichlorobenzene	17.12	146	185759	1.20	ppbv #	76
77) 1,2-Dichlorobenzene	17.80	146	99790	0.66	ppbv	87
79) Naphthalene	22.18	128	25513	0.17	ppbv	98
80) Naphthalene,2-methyl-	24.97	142	2399	0.08	ppbv #	66
81) 1,2,4-Trichlorobenzene	21.91	180	2853	0.03	ppbv #	1

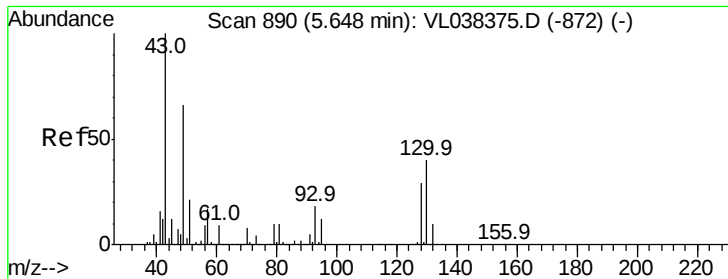
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Feb 2022 13:44 SG-FAM4GL-3

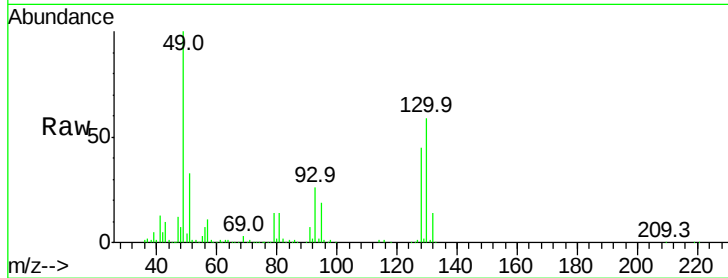
Tgt Ion: 49 Resp: 1015620

Ion Ratio Lower Upper

49 100

128 48.1 24.3 72.9

130 60.6 30.1 90.5



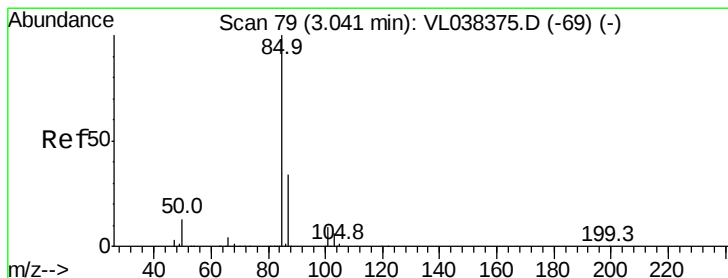
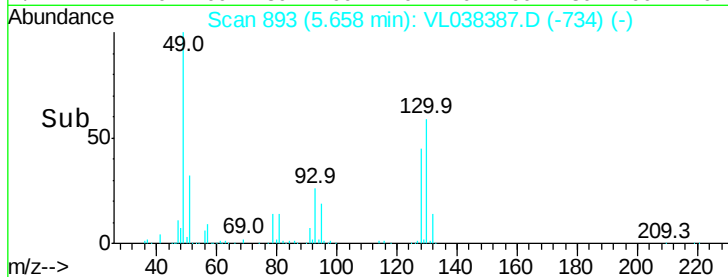
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.66

Time-->



#2

Dichlorodifluoromethane

Concen: 1.61 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL038387.D

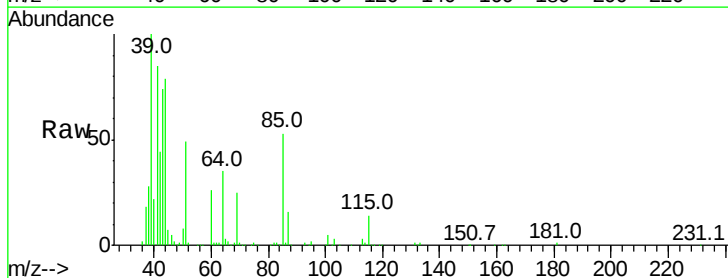
Acq: 22 Feb 2022 13:44

Tgt Ion: 85 Resp: 258675

Ion Ratio Lower Upper

85 100

87 30.9 27.4 41.0

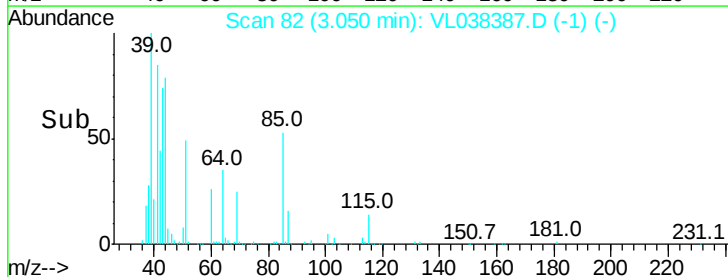


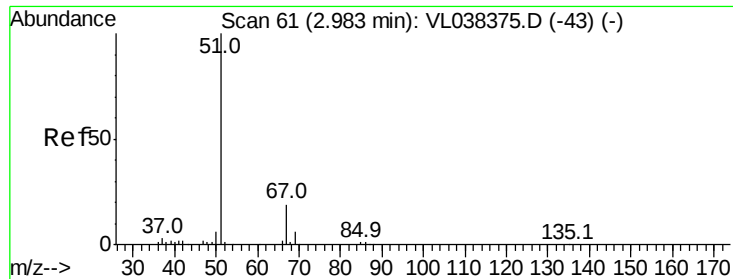
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.24 ppbv

RT: 3.20 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG-FAM4GL-3

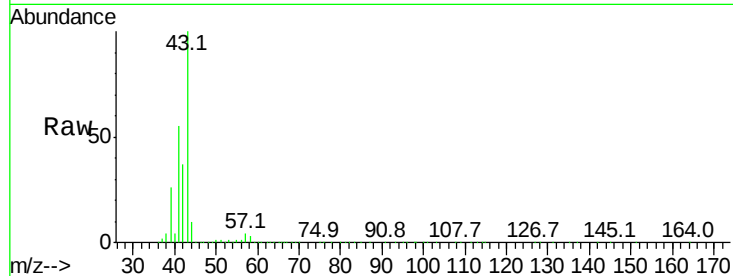
Acq: 22 Feb 2022 13:44

Tgt Ion: 51 Resp: 43937

Ion Ratio Lower Upper

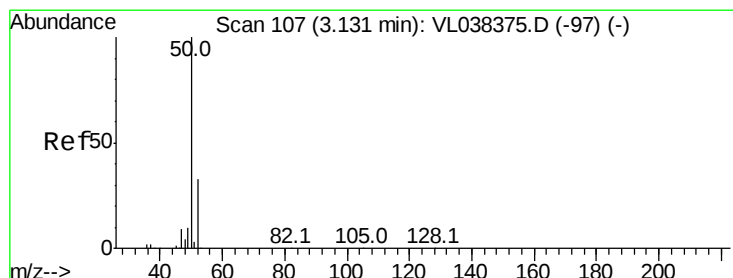
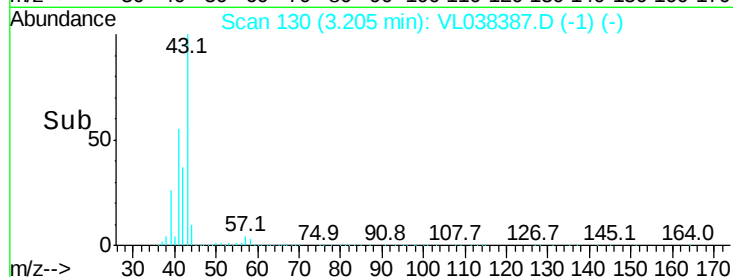
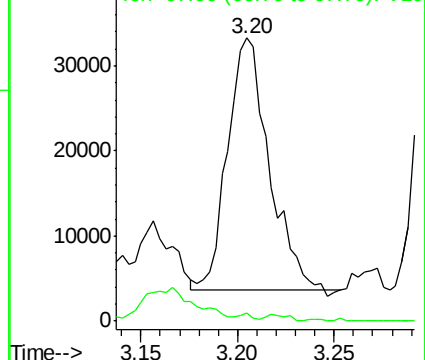
51 100

67 20.5 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.67 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL038387.D

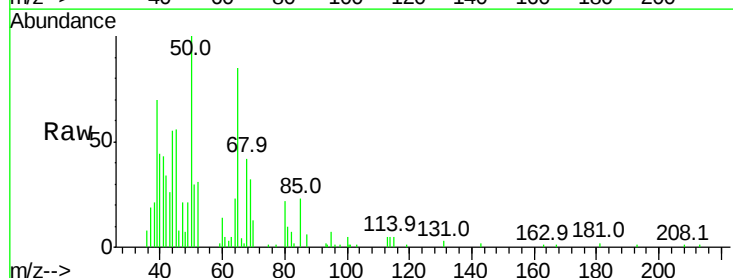
Acq: 22 Feb 2022 13:44

Tgt Ion: 50 Resp: 41870

Ion Ratio Lower Upper

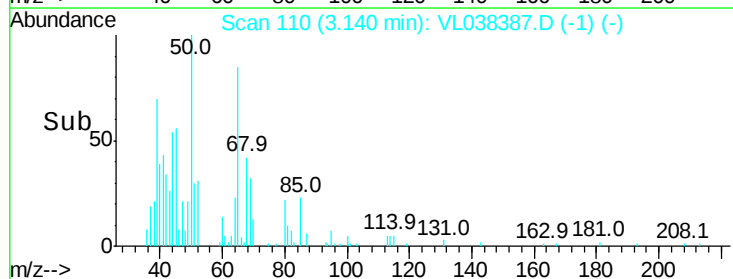
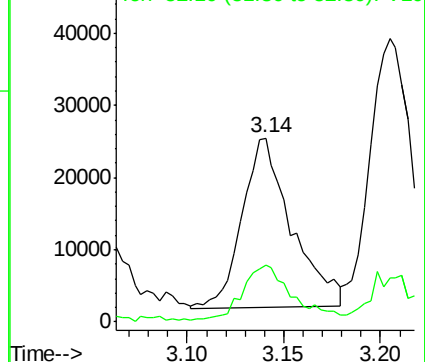
50 100

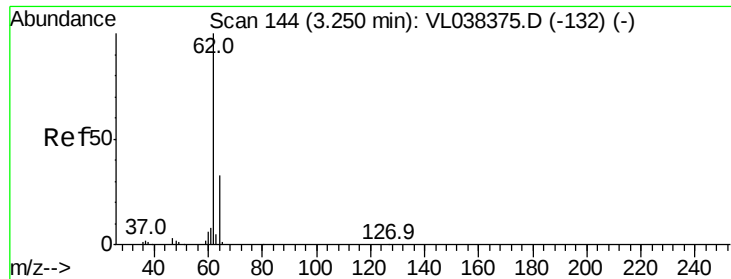
52 33.1 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 6.40 ppbv

RT: 3.26 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

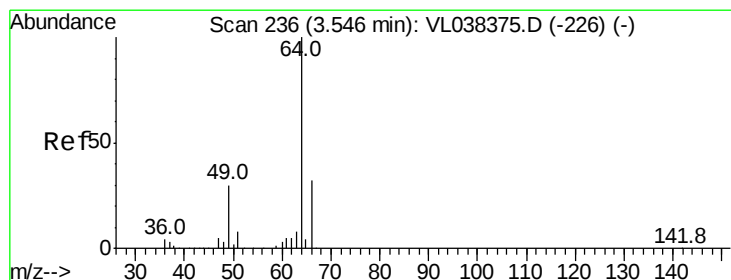
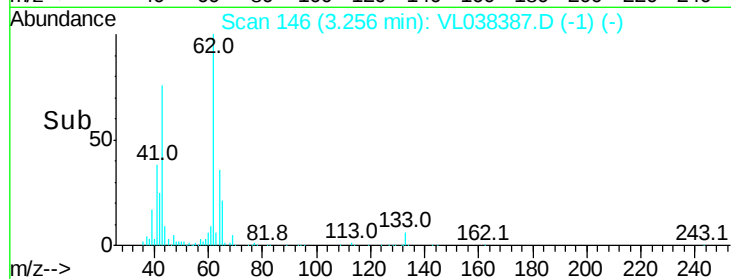
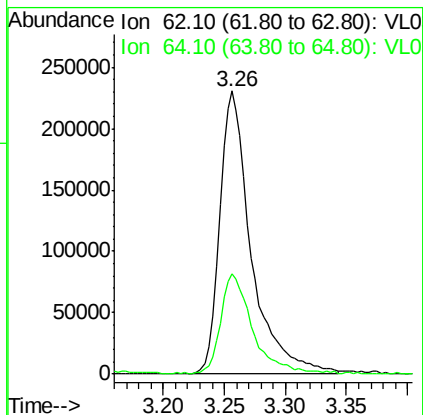
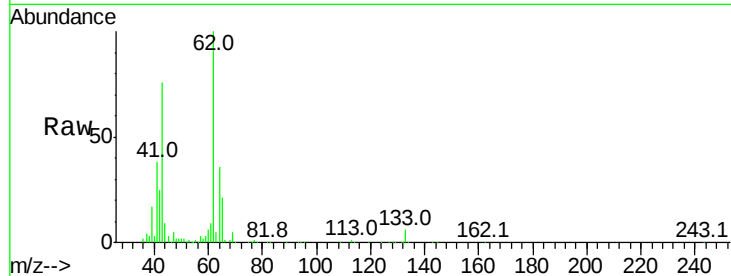
Acq: 22 Feb 2022 13:44 SG-FAM4GL-3

Tgt Ion: 62 Resp: 417155

Ion Ratio Lower Upper

62 100

64 35.6 26.2 39.2



#7

Chloroethane

Concen: 3.34 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.01 min

Lab File: VL038387.D

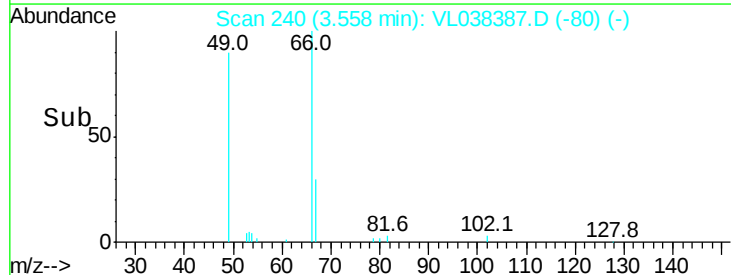
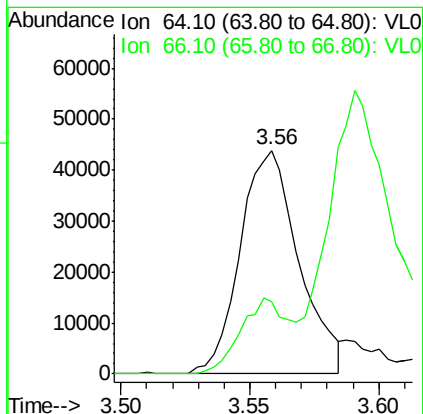
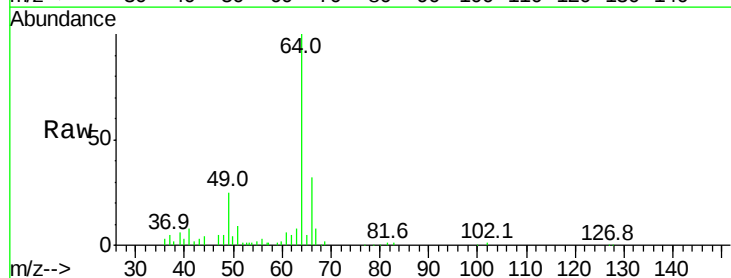
Acq: 22 Feb 2022 13:44

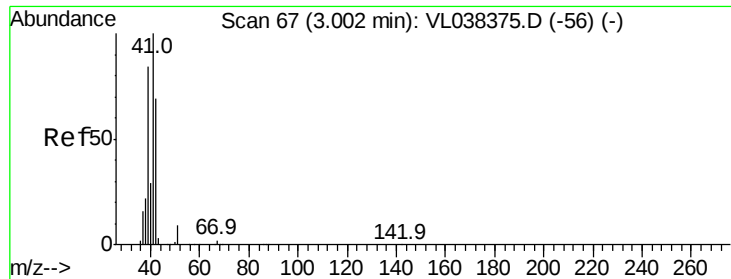
Tgt Ion: 64 Resp: 69858

Ion Ratio Lower Upper

64 100

66 32.3 25.9 38.9





#9

Propene

Concen: 60.17 ppbv

RT: 3.01

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

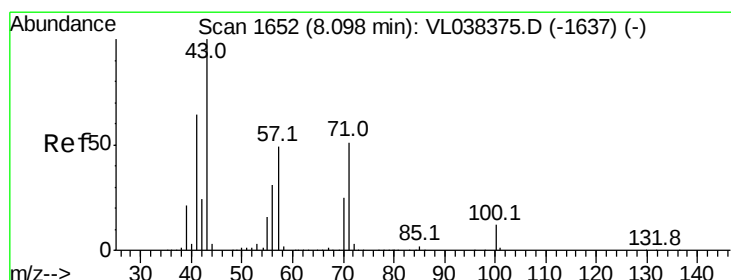
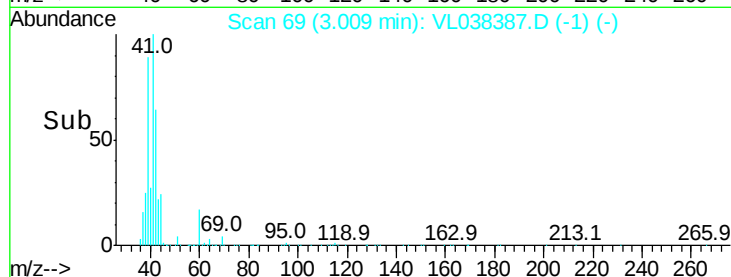
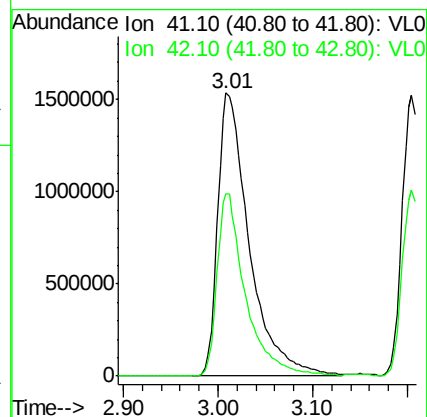
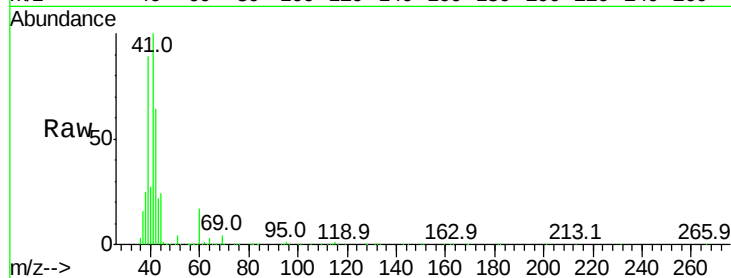
Acq: 22 Feb 2022 13:44

Tgt Ion: 41 Resp: 3562869

Ion Ratio Lower Upper

41 100

42 57.9 54.6 82.0



#10

Heptane

Concen: 4.59 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. 0.02 min

Lab File: VL038387.D

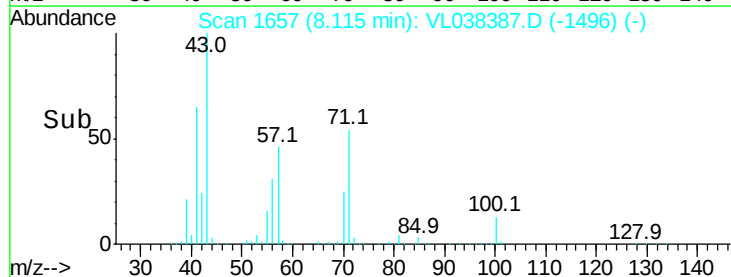
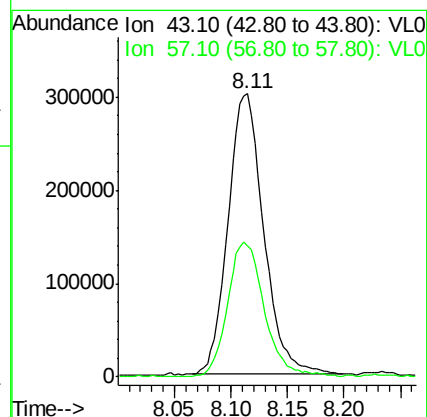
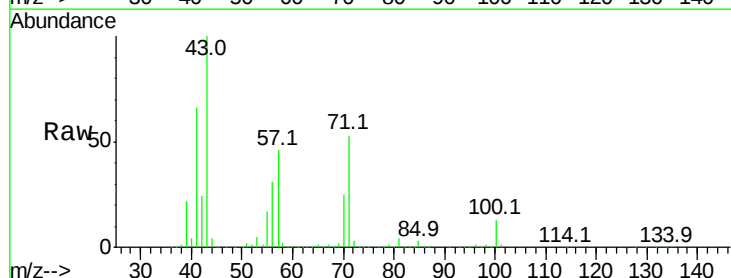
Acq: 22 Feb 2022 13:44

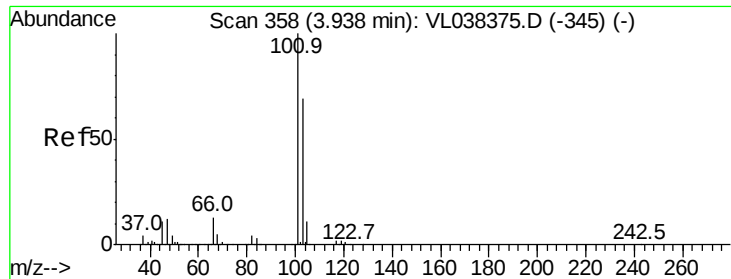
Tgt Ion: 43 Resp: 660896

Ion Ratio Lower Upper

43 100

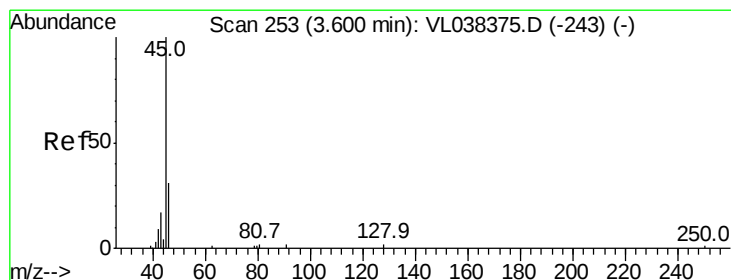
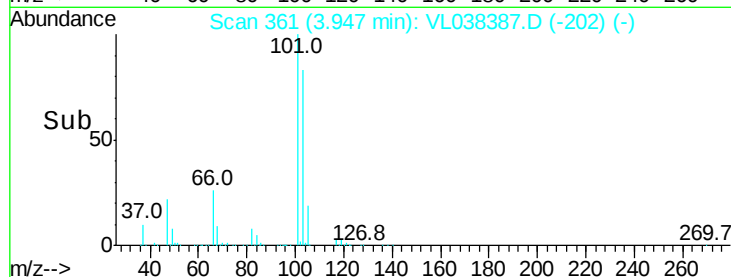
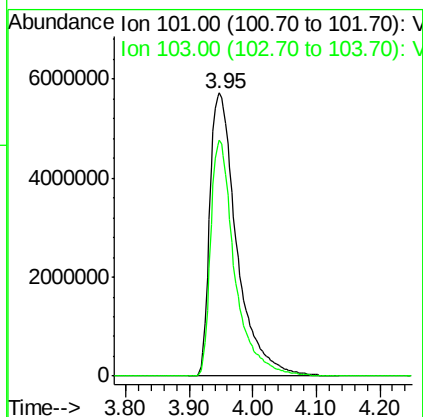
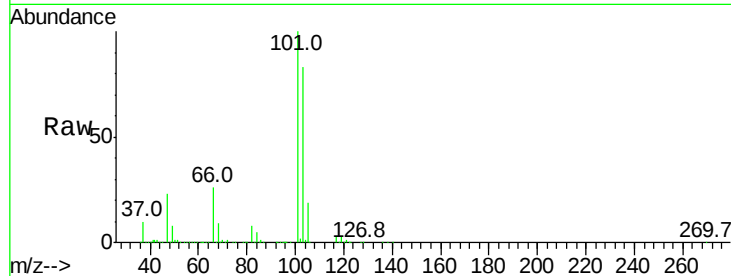
57 49.2 39.8 59.8





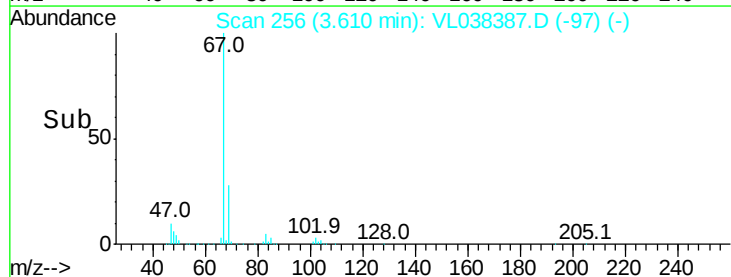
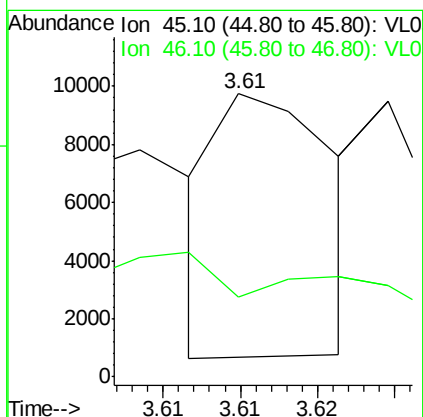
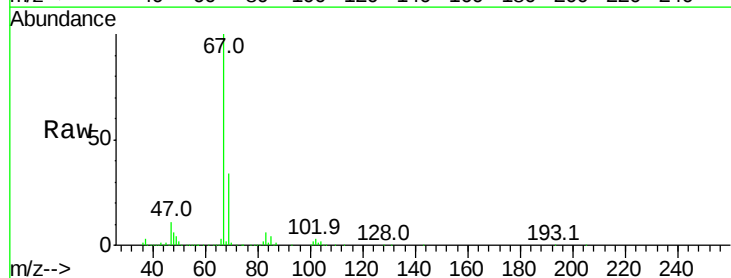
#11
 Trichlorofluoromethane
 Concen: 109.35 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Feb 2022 13:44

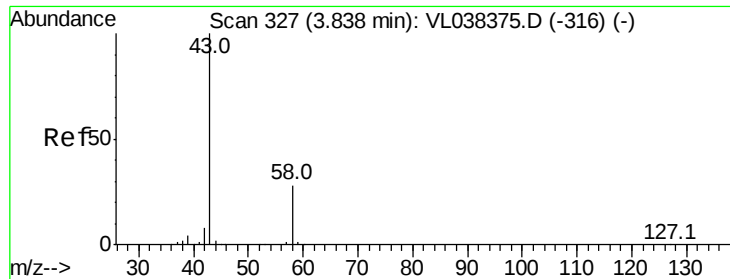
Tgt Ion:101 Resp:16841700
 Ion Ratio Lower Upper
 101 100
 103 83.3 55.0 82.4#



#13
 Ethanol
 Concen: 0.80 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. 0.01 min
 Lab File: VL038387.D
 Acq: 22 Feb 2022 13:44

Tgt Ion: 45 Resp: 4705
 Ion Ratio Lower Upper
 45 100
 46 243.3 18.2 72.8#





#15

Acetone

Concen: 21.98 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

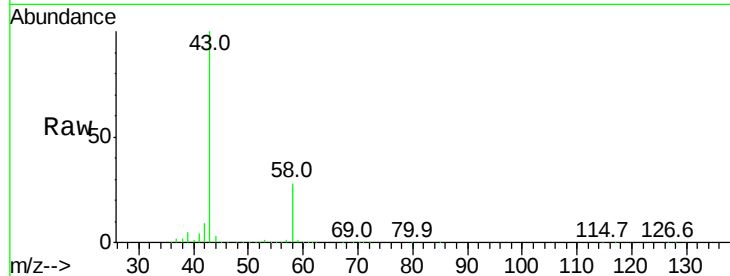
Acq: 22 Feb 2022 13:44 SG-FAM4GL-3

Tgt Ion: 43 Resp: 1898620

Ion Ratio Lower Upper

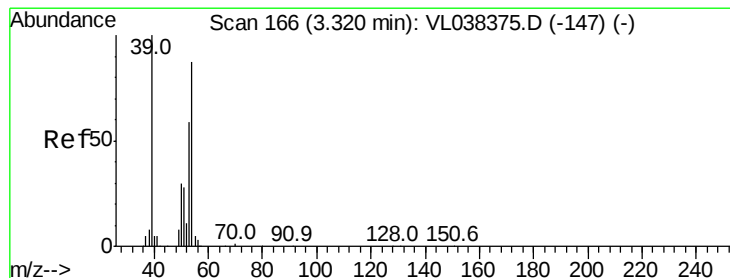
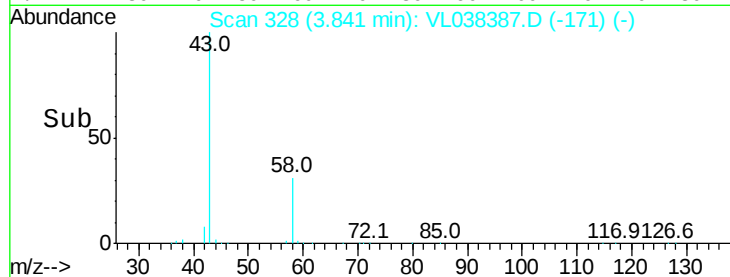
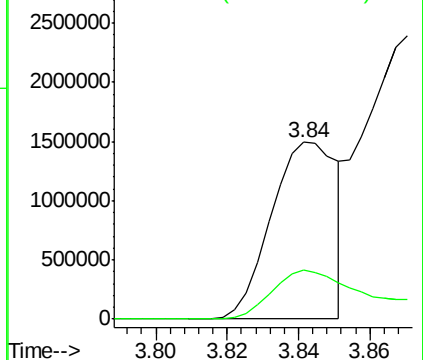
43 100

58 50.3 21.7 32.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 16.86 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.01 min

Lab File: VL038387.D

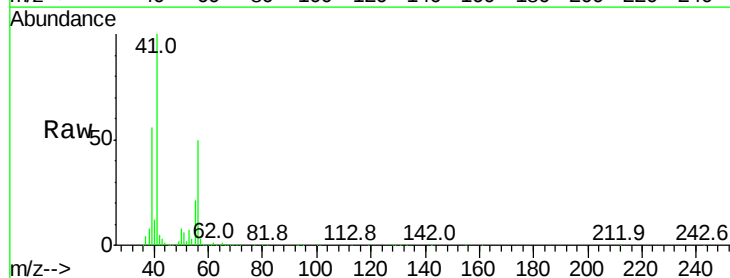
Acq: 22 Feb 2022 13:44

Tgt Ion: 39 Resp: 972578

Ion Ratio Lower Upper

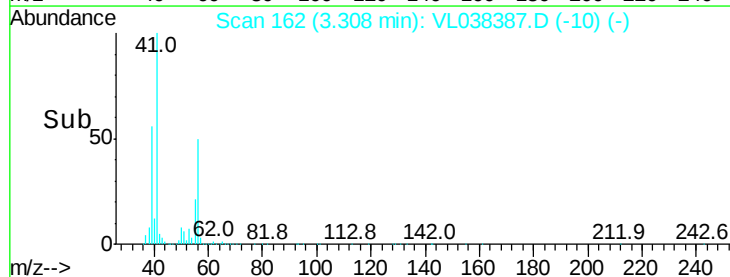
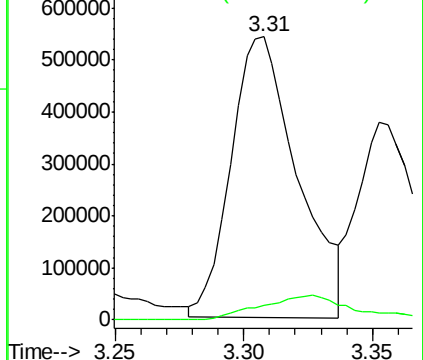
39 100

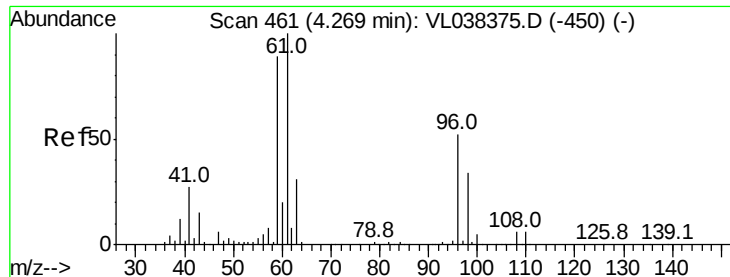
54 12.7 60.3 90.5#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.21 ppbv

RT: 4.29 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

SG-FAM4GL-3

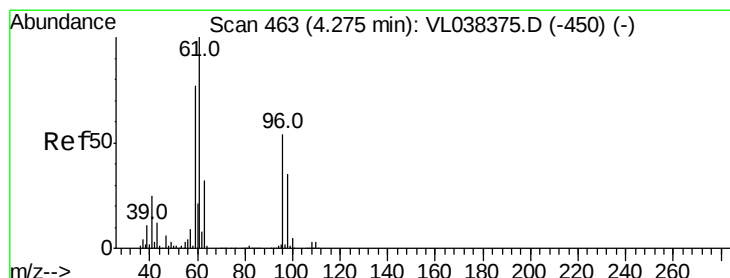
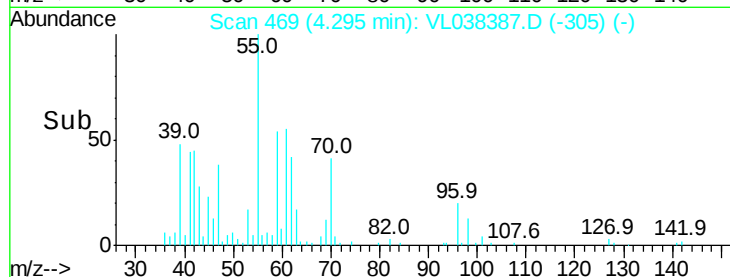
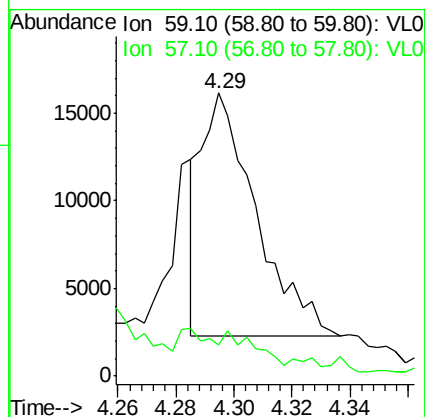
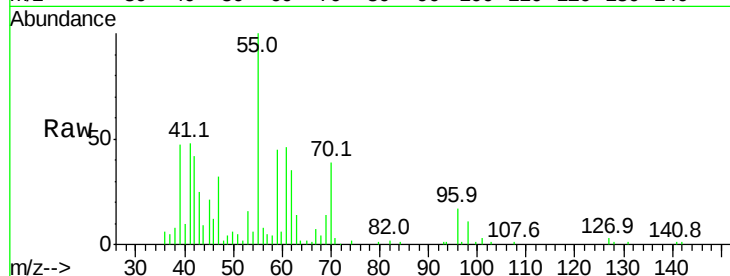
Acq: 22 Feb 2022 13:44

Tgt Ion: 59 Resp: 18175

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#18

1,1-Dichloroethene

Concen: 0.31 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.02 min

Lab File: VL038387.D

Acq: 22 Feb 2022 13:44

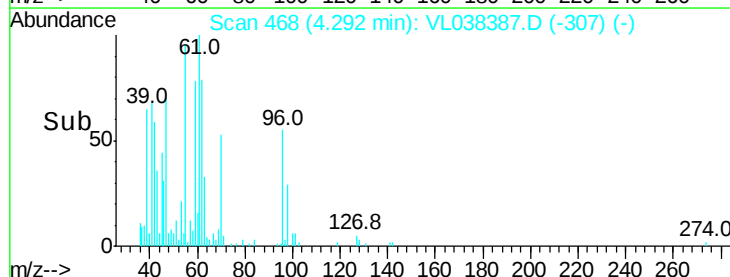
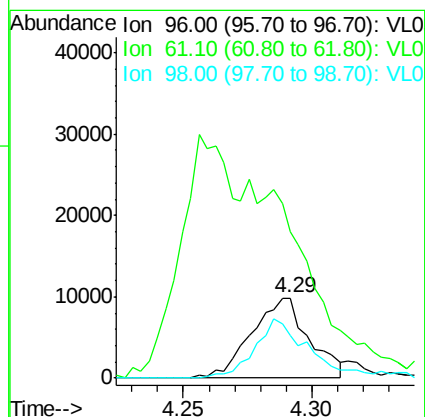
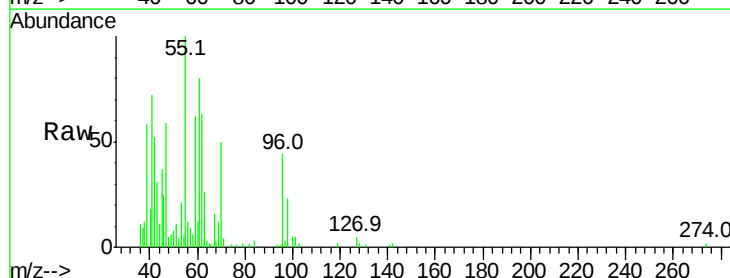
Tgt Ion: 96 Resp: 15379

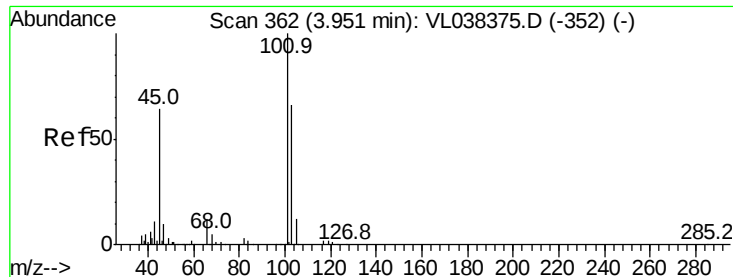
Ion Ratio Lower Upper

96 100

61 116.7 146.8 220.2#

98 49.8 51.5 77.3#





#19

Isopropyl Alcohol

Concen: 0.29 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

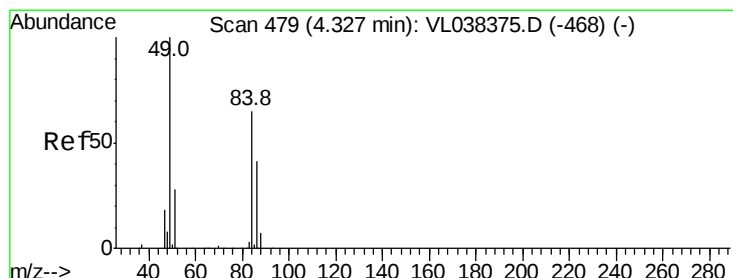
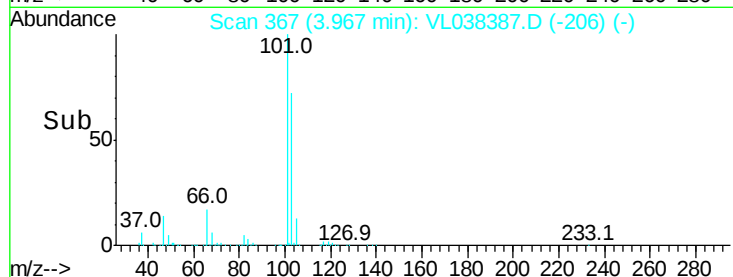
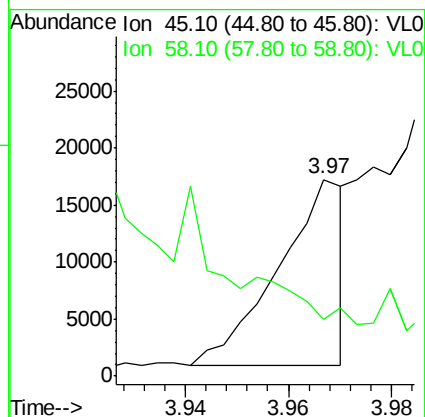
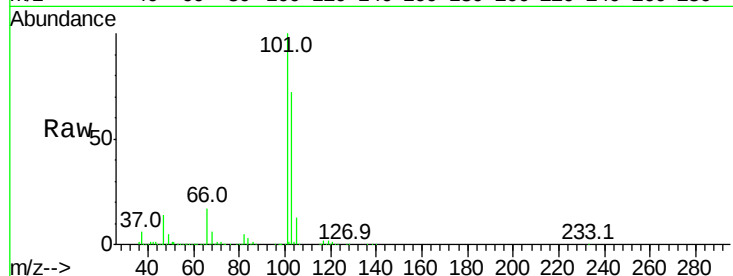
Acq: 22 Feb 2022 13:44 SG-FAM4GL-3

Tgt Ion: 45 Resp: 14549

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#



#20

Methylene Chloride

Concen: 3.18 ppbv

RT: 4.34 min Scan# 483

Delta R.T. 0.01 min

Lab File: VL038387.D

Acq: 22 Feb 2022 13:44

Tgt Ion: 84 Resp: 136276

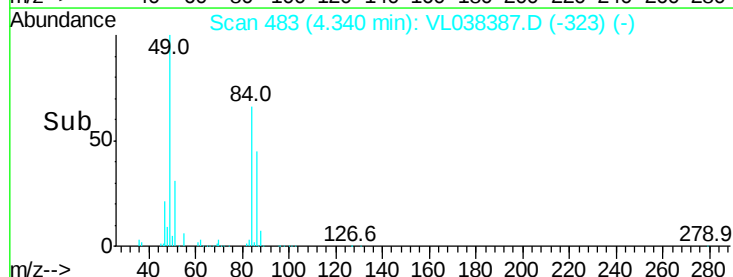
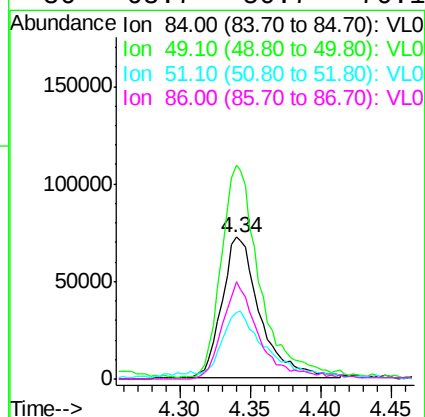
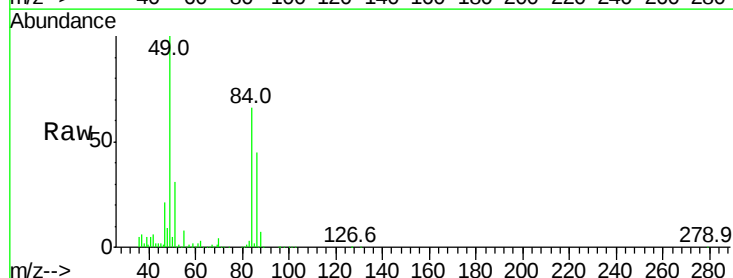
Ion Ratio Lower Upper

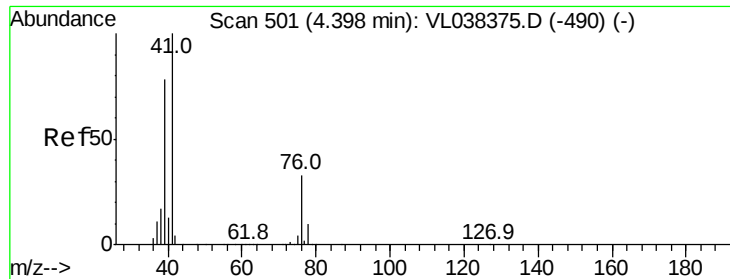
84 100

49 150.2 122.4 183.6

51 44.2 33.3 49.9

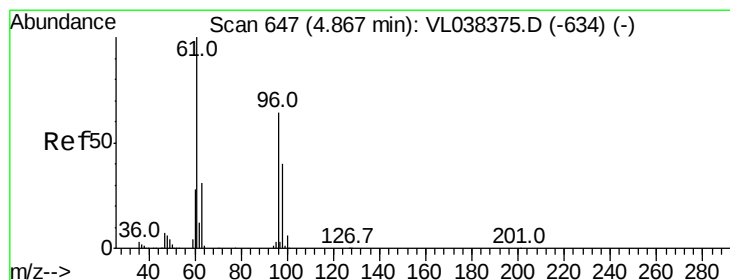
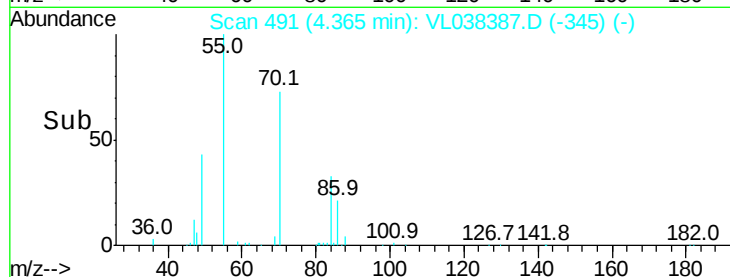
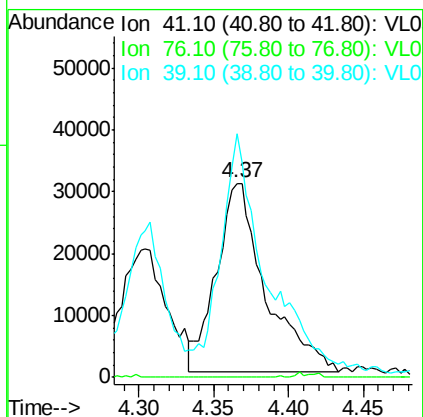
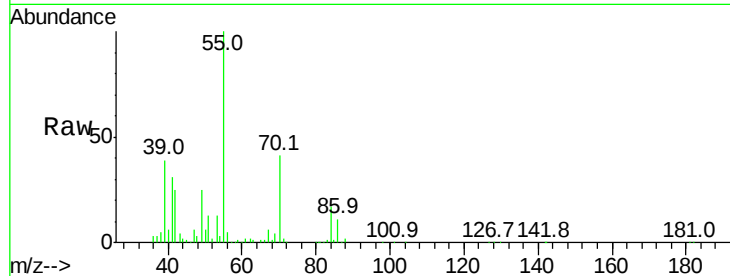
86 68.7 50.7 76.1





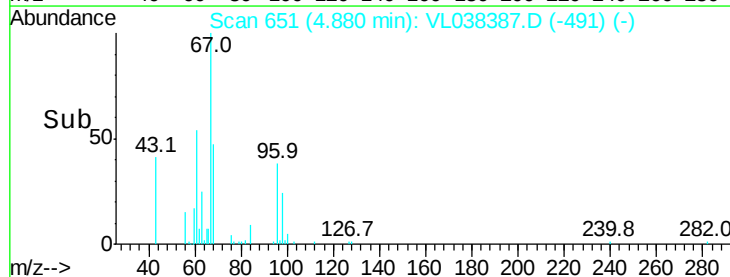
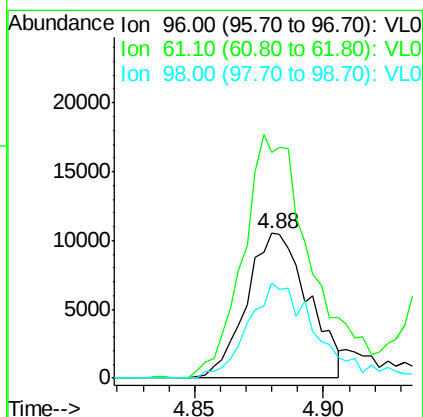
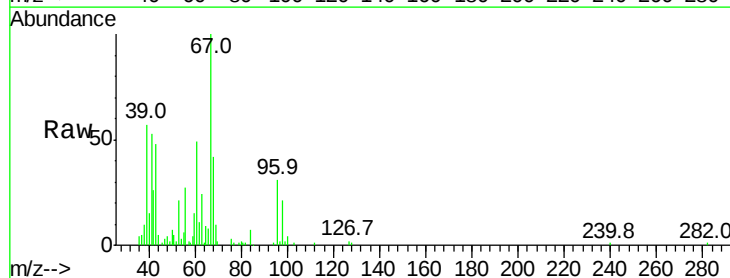
#21
 Allyl Chloride
 Concen: 0.96 ppbv
 RT: 4.37
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId : SG-FAM4GL-3
 Acq: 22 Feb 2022 13:44

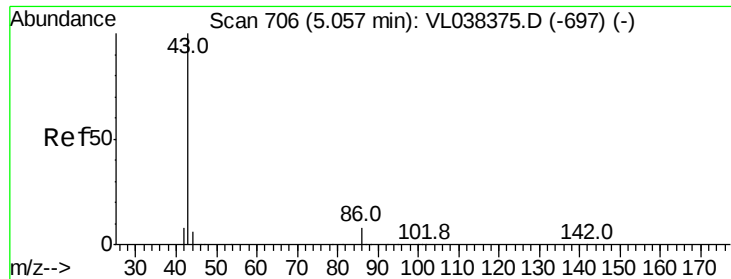
Tgt Ion: 41 Resp: 69951
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.4 38.0#
 39 119.4 63.0 94.6#



#22
 trans-1,2-Dichloroethene
 Concen: 0.35 ppbv
 RT: 4.88 min Scan# 651
 Delta R.T.: 0.01 min
 Lab File: VL038387.D
 Acq: 22 Feb 2022 13:44

Tgt Ion: 96 Resp: 17600
 Ion Ratio Lower Upper
 96 100
 61 156.2 124.2 186.4
 98 65.7 49.1 73.7





#23

Vinyl Acetate

Concen: 4.86 ppbv

RT: 5.05

Delta R.T. MSVOA_L

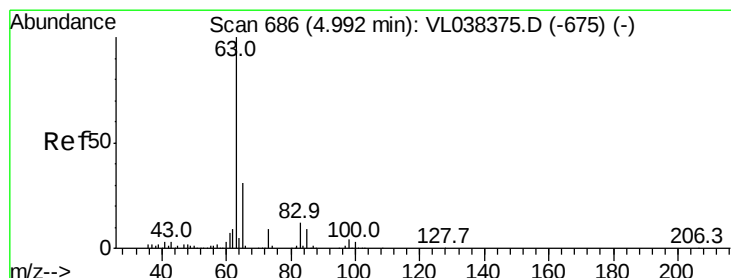
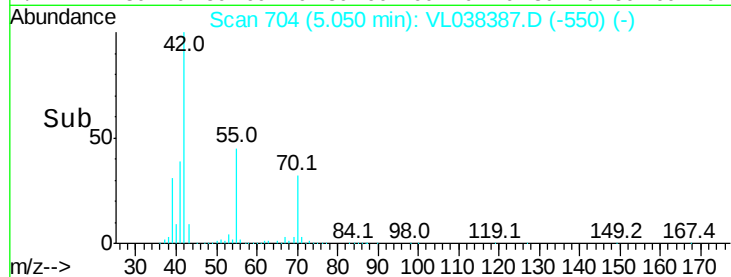
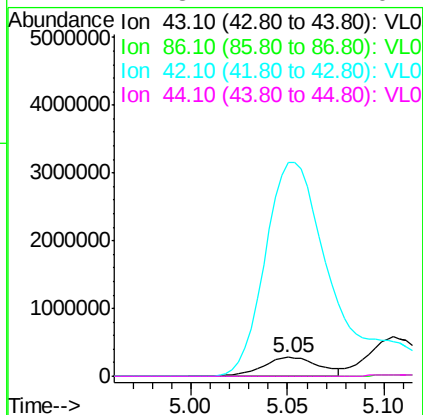
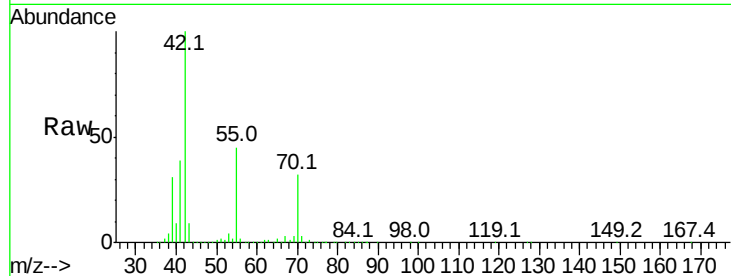
Lab File: ClientSampleId :

Acq: 22 Feb 2022 13:44

Tgt Ion: 43 Resp: 556790

Ion Ratio Lower Upper

43	100		
86	1.8	5.8	8.6#
42	1152.8	7.4	11.0#
44	2.3	4.2	6.2#



#24

1,1-Dichloroethane

Concen: 2.31 ppbv

RT: 5.01 min Scan# 690

Delta R.T. 0.01 min

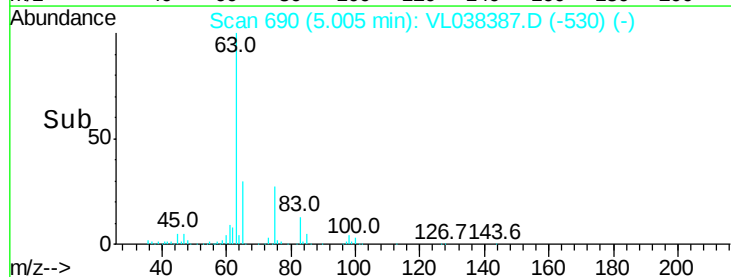
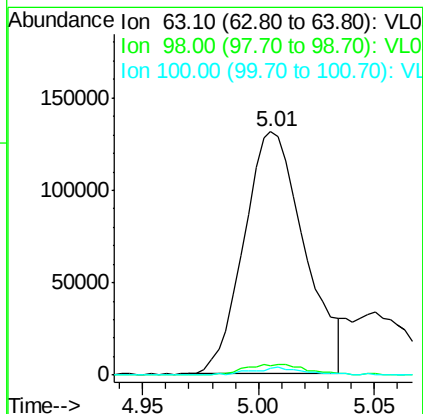
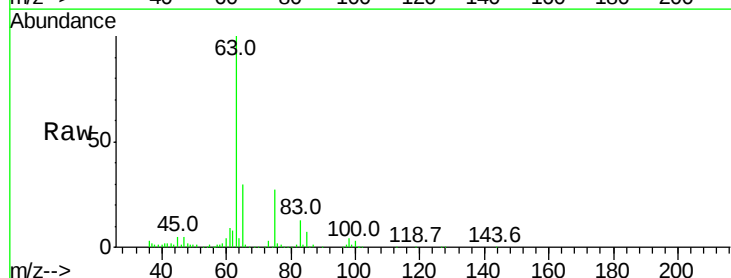
Lab File: VL038387.D

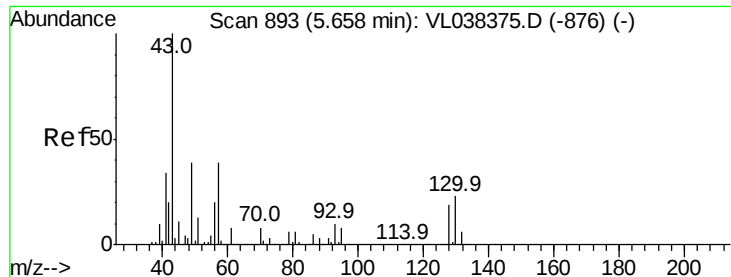
Acq: 22 Feb 2022 13:44

Tgt Ion: 63 Resp: 238071

Ion Ratio Lower Upper

63	100		
98	3.9	2.1	6.5
100	2.9	1.4	4.2





#25

Ethyl Acetate

Concen: 2.98 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 22 Feb 2022 13:44 SG-FAM4GL-3

Tgt Ion: 43 Resp: 690441

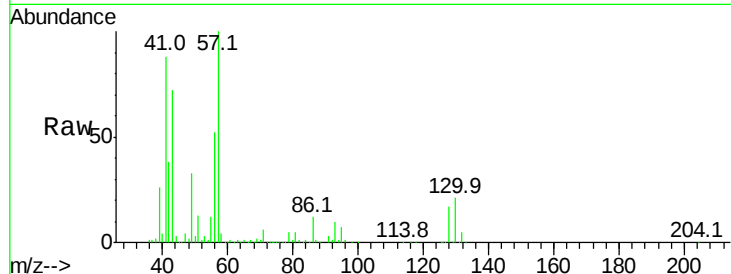
Ion Ratio Lower Upper

43 100

45 0.9 7.8 11.6#

61 0.0 7.5 11.3#

70 1.8 5.4 8.0#

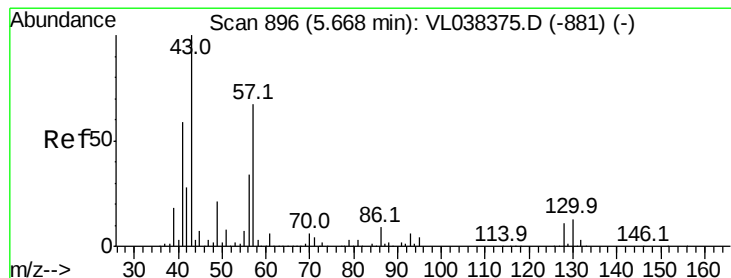
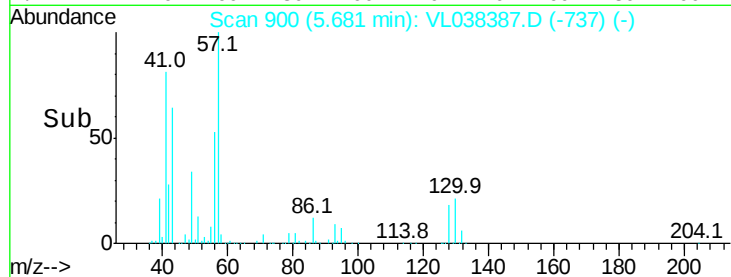
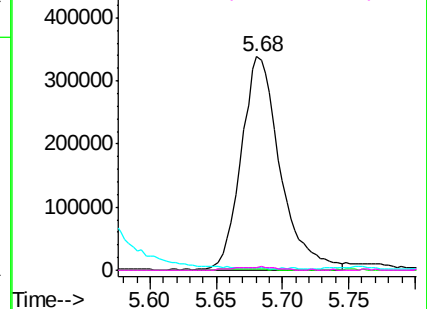


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.17 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.02 min

Lab File: VL038387.D

Acq: 22 Feb 2022 13:44

Tgt Ion: 57 Resp: 963308

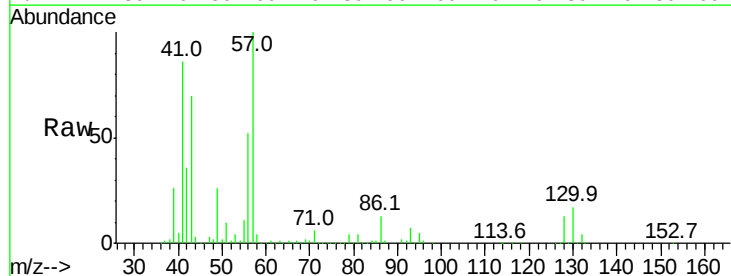
Ion Ratio Lower Upper

57 100

41 91.8 73.1 109.7

43 74.7 181.0 271.4#

56 53.7 43.4 65.0

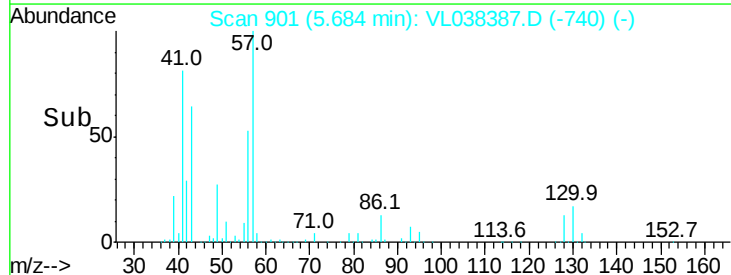
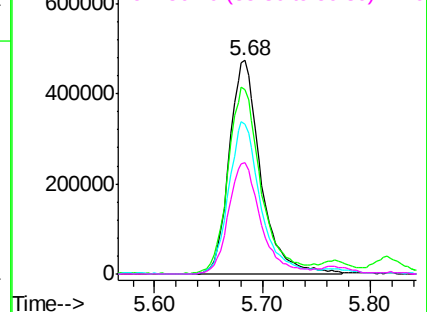


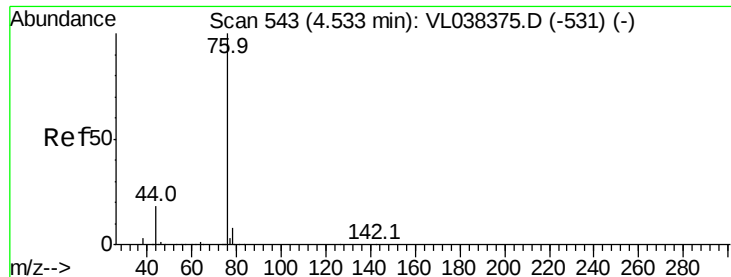
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 13.12 ppbv

RT: 4.55 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 22 Feb 2022 13:44 SG-FAM4GL-3

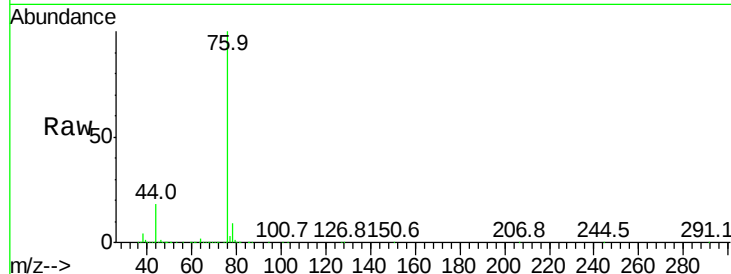
Tgt Ion: 76 Resp: 1534007

Ion Ratio Lower Upper

76 100

44 18.8 14.2 21.2

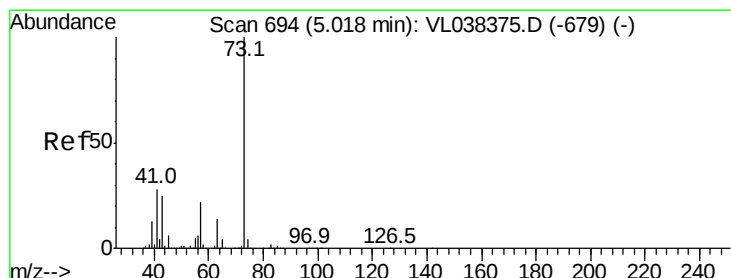
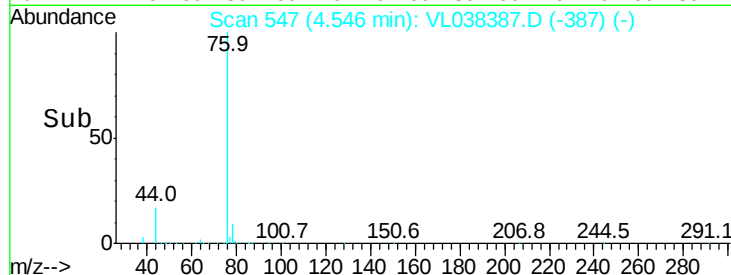
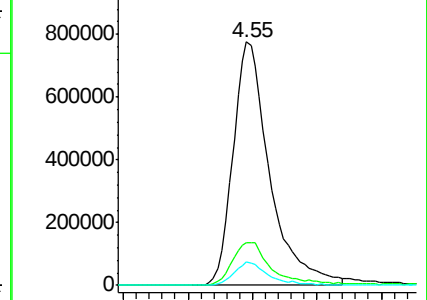
78 9.4 7.8 11.6



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

Methyl tert-Butyl Ether

Concen: 0.92 ppbv

RT: 5.03 min Scan# 698

Delta R.T. 0.01 min

Lab File: VL038387.D

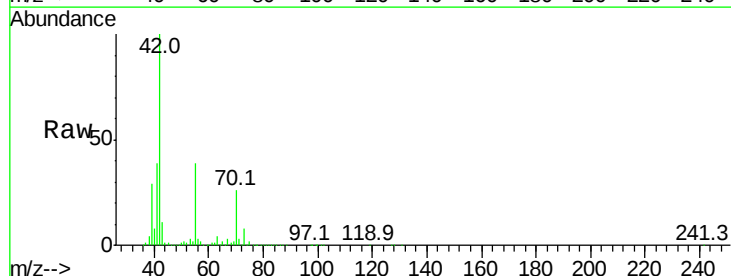
Acq: 22 Feb 2022 13:44

Tgt Ion: 73 Resp: 98260

Ion Ratio Lower Upper

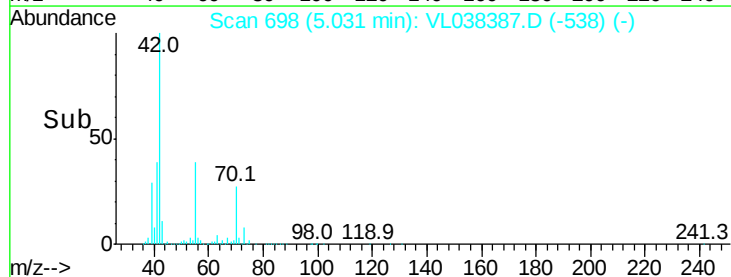
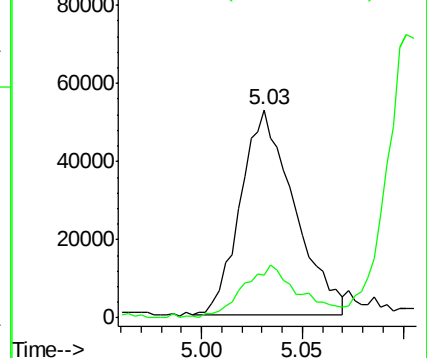
73 100

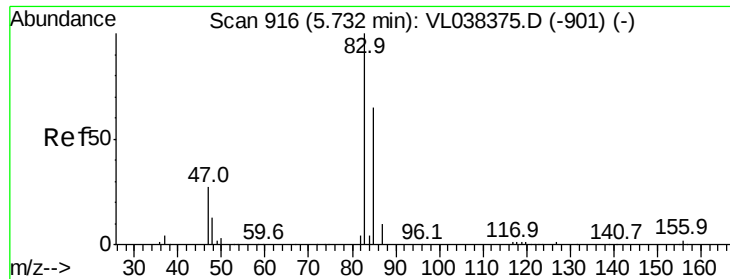
57 26.0 18.2 27.4



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.66 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

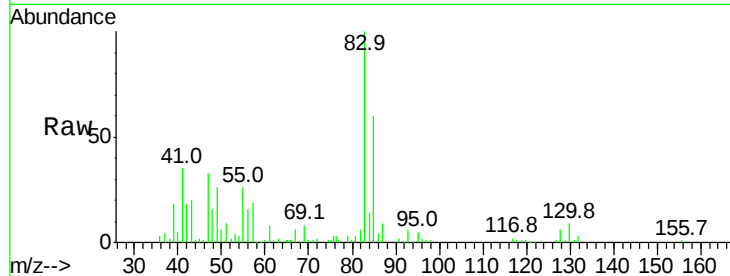
Acq: 22 Feb 2022 13:44 SG-FAM4GL-3

Tgt Ion: 83 Resp: 113427

Ion Ratio Lower Upper

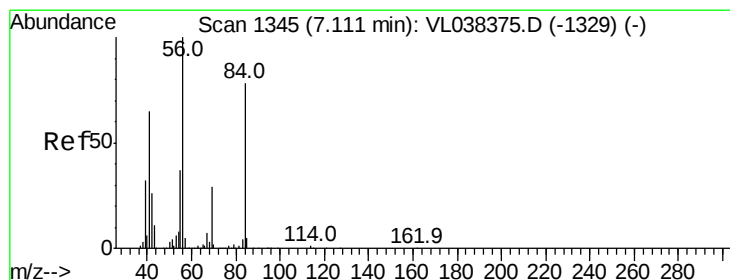
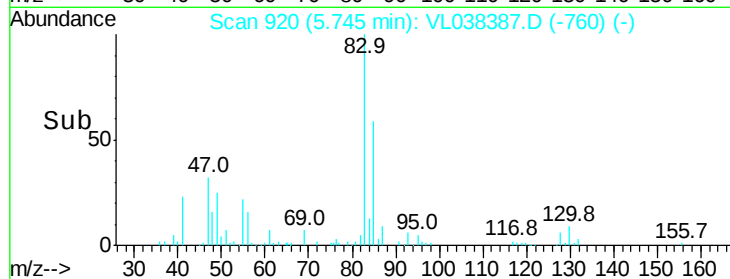
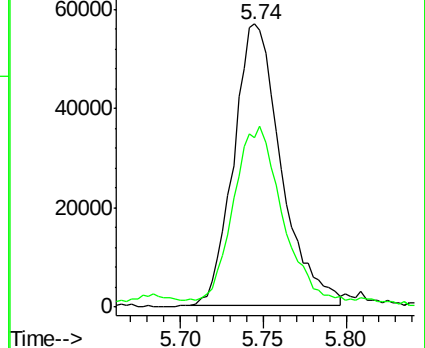
83 100

85 57.2 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 7.14 ppbv

RT: 7.12 min Scan# 1348

Delta R.T. 0.01 min

Lab File: VL038387.D

Acq: 22 Feb 2022 13:44

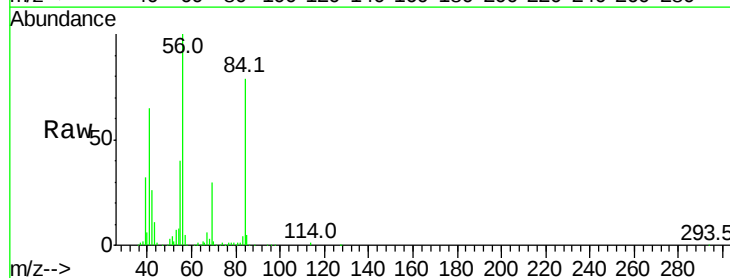
Tgt Ion: 84 Resp: 613292

Ion Ratio Lower Upper

84 100

56 146.7 116.2 174.4

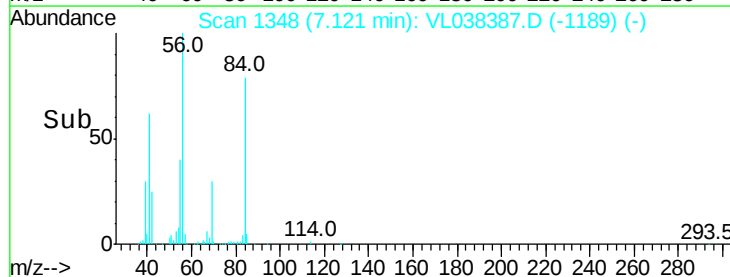
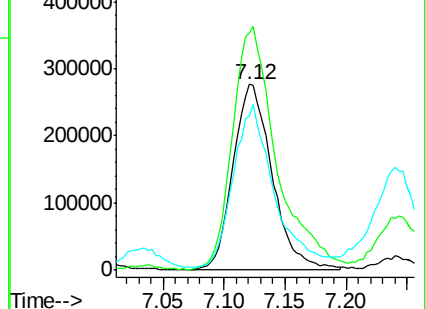
41 92.8 74.3 111.5

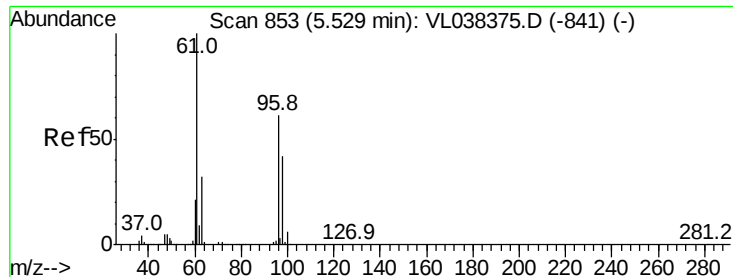


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

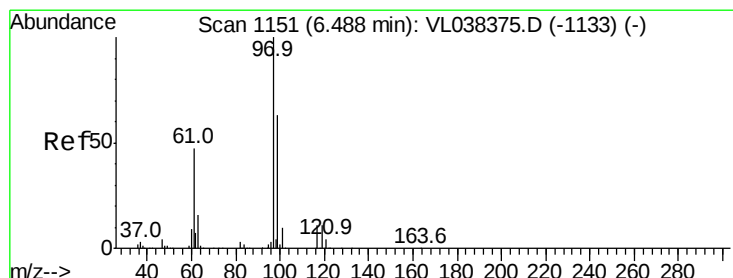
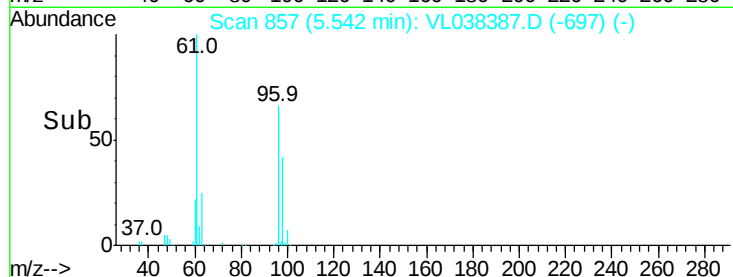
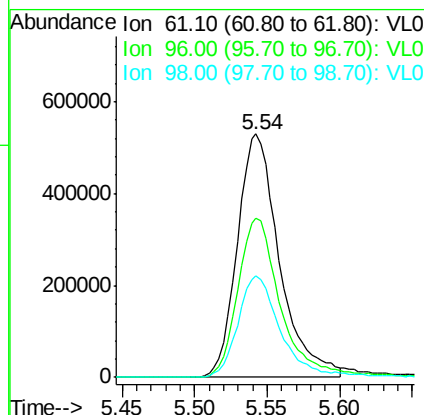
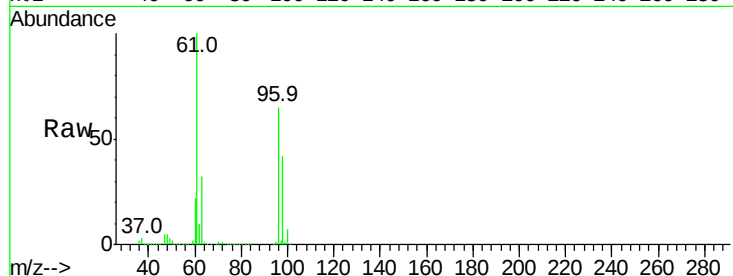
Ion 41.10 (40.80 to 41.80): VL0





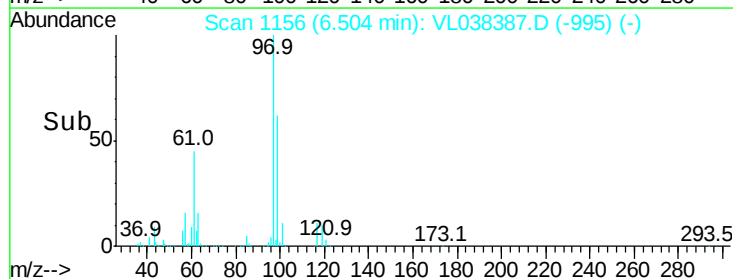
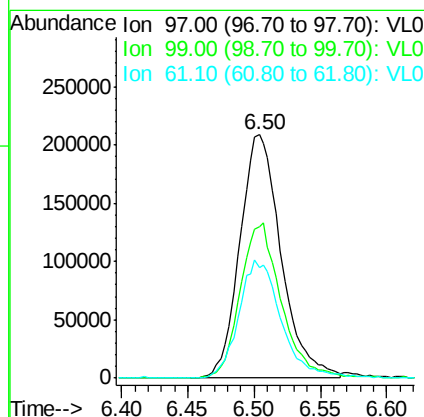
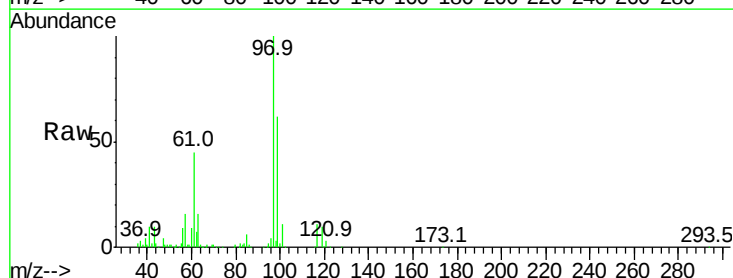
#31
 cis-1,2-Dichloroethene
 Concen: 10.49 ppbv
 RT: 5.54
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 22 Feb 2022 13:44

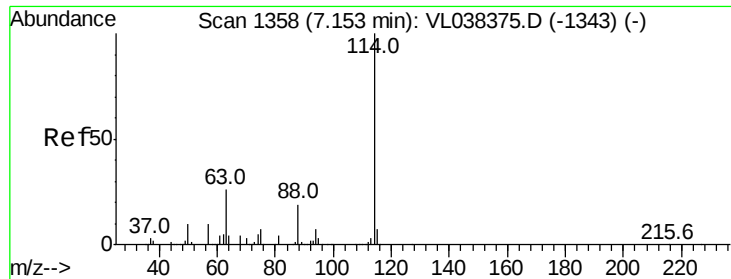
Tgt Ion: 61 Resp: 1067966
 Ion Ratio Lower Upper
 61 100
 96 65.4 48.6 73.0
 98 41.7 33.2 49.8



#32
 1,1,1-Trichloroethane
 Concen: 2.62 ppbv
 RT: 6.50 min Scan# 1156
 Delta R.T. 0.02 min
 Lab File: VL038387.D
 Acq: 22 Feb 2022 13:44

Tgt Ion: 97 Resp: 452618
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.9 77.9
 61 50.3 40.5 60.7

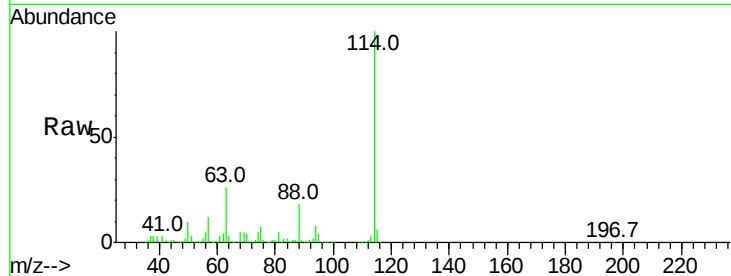




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SG-FAM4GL-3
 Acq: 22 Feb 2022 13:44

Tgt Ion: 114 Resp: 2533402

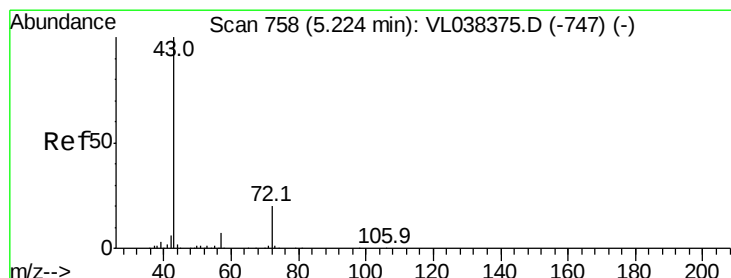
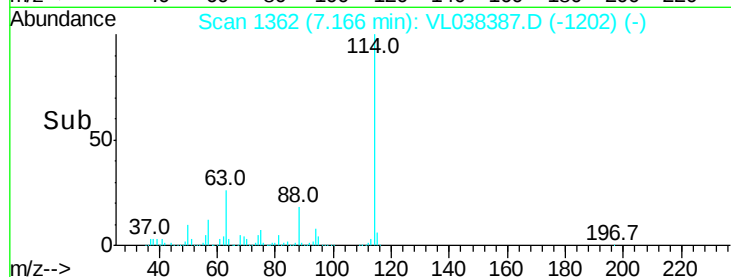
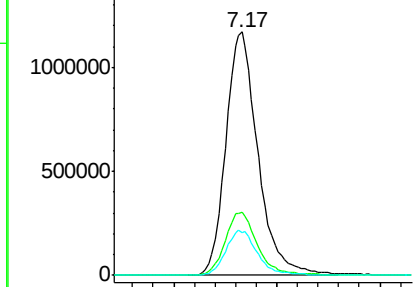
Ion	Ratio	Lower	Upper
114	100		
63	26.5	22.2	33.2
88	18.6	15.2	22.8



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

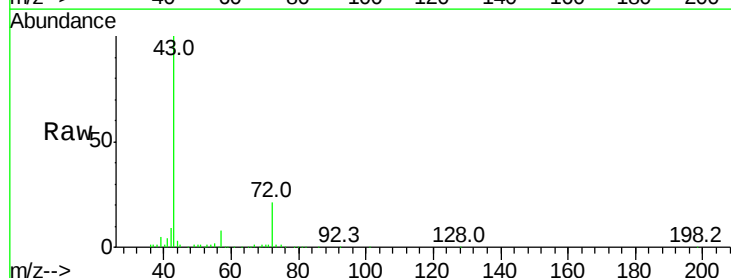
Ion 88.10 (87.80 to 88.80): VL0



#34
 2-Butanone
 Concen: 4.50 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.02 min
 Lab File: VL038387.D
 Acq: 22 Feb 2022 13:44

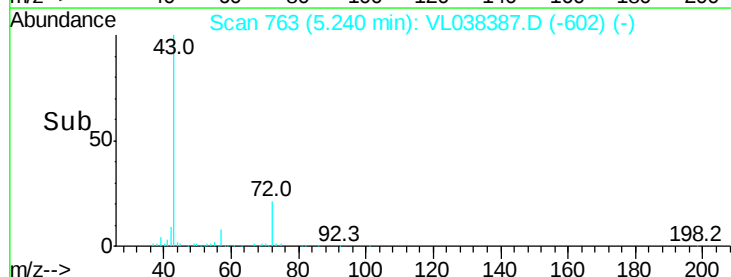
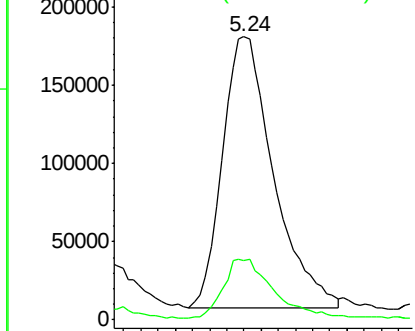
Tgt Ion: 43 Resp: 358831

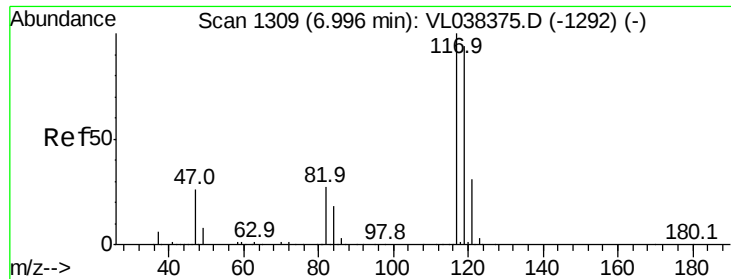
Ion	Ratio	Lower	Upper
43	100		
72	23.9	17.4	26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

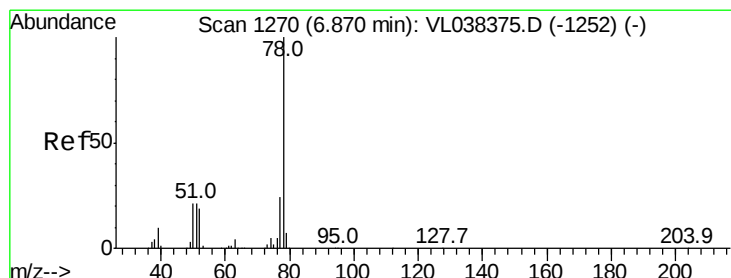
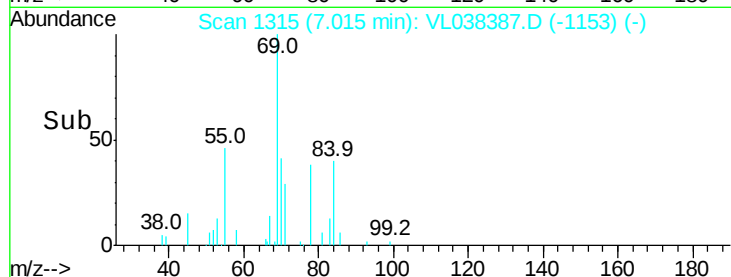
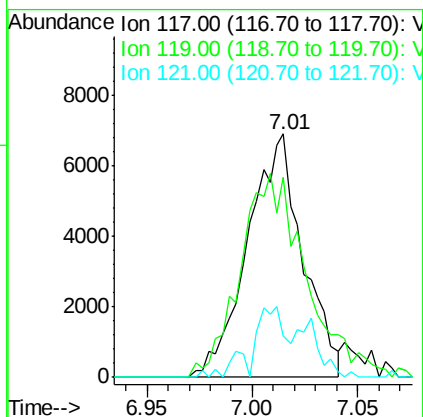
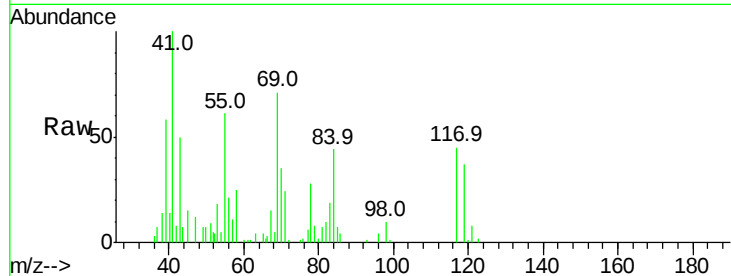
Ion 72.10 (71.80 to 72.80): VL0





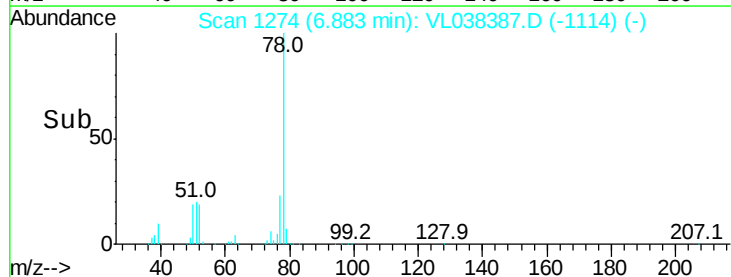
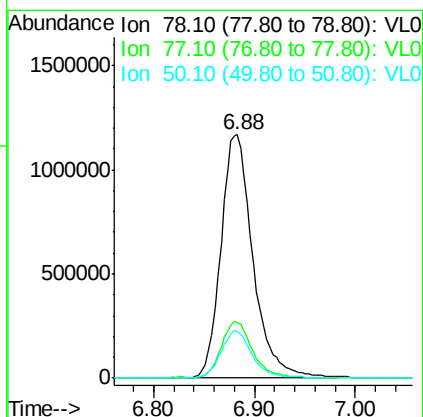
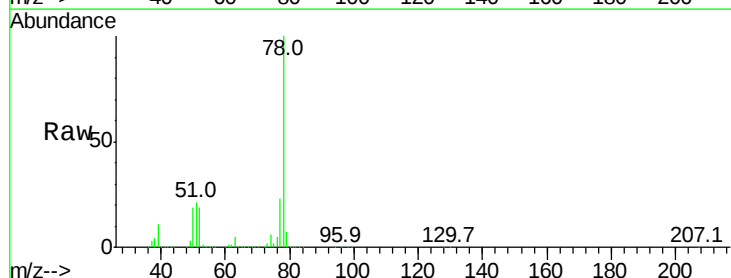
#35
 Carbon Tetrachloride
 Concen: 0.07 ppbv
 RT: 7.01
 Delta R.T. MSVOA_L
 Lab File: ClientSampled :
 Acq: 22 Feb 2022 13:44

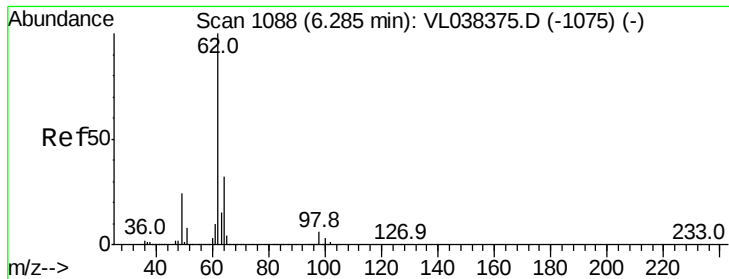
Tgt Ion: 117 Resp: 12515
 Ion Ratio Lower Upper
 117 100
 119 82.3 74.9 112.3
 121 17.1 24.8 37.2#



#36
 Benzene
 Concen: 11.58 ppbv
 RT: 6.88 min Scan# 1274
 Delta R.T. 0.01 min
 Lab File: VL038387.D
 Acq: 22 Feb 2022 13:44

Tgt Ion: 78 Resp: 2583290
 Ion Ratio Lower Upper
 78 100
 77 22.6 19.0 28.6
 50 18.7 16.6 24.8





#37

1,2-Dichloroethane

Concen: 0.03 ppbv

RT: 6.31

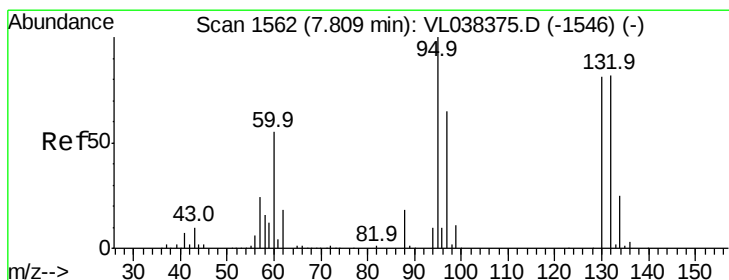
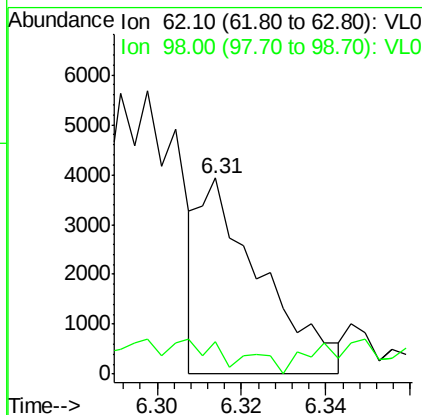
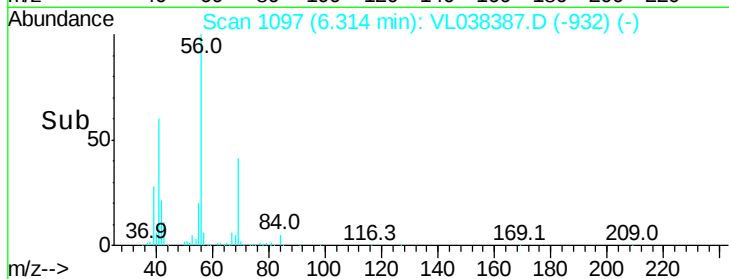
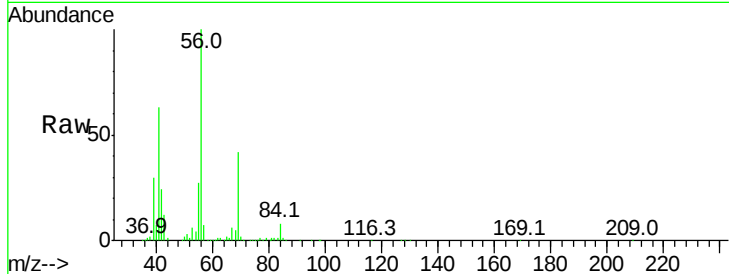
Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Feb 2022 13:44

Tgt Ion: 62 Resp: 4047

Ion	Ratio	Lower	Upper
62	100		
98	30.4	4.6	7.0#



#38

Trichloroethene

Concen: 3.97 ppbv

RT: 7.83 min Scan# 1567

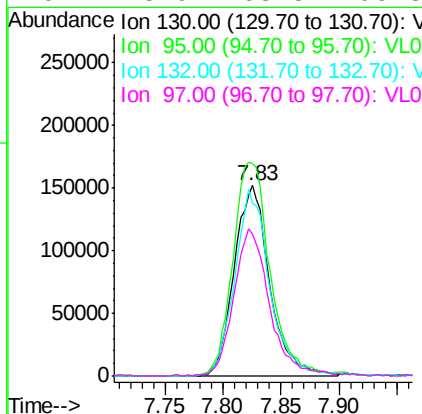
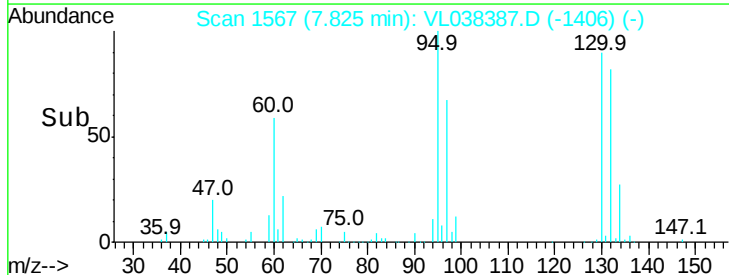
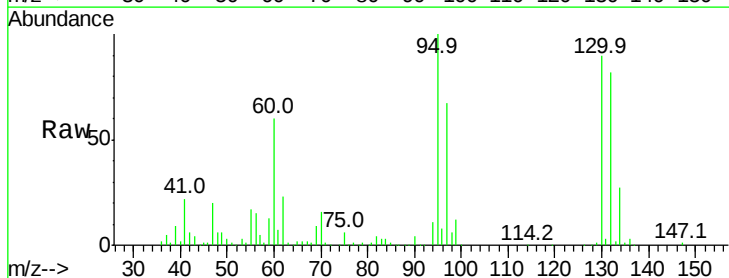
Delta R.T. 0.02 min

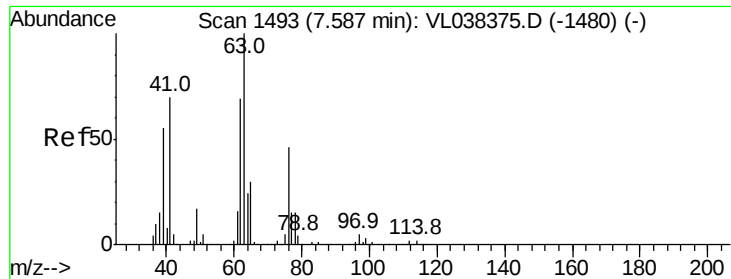
Lab File: VL038387.D

Acq: 22 Feb 2022 13:44

Tgt Ion: 130 Resp: 322451

Ion	Ratio	Lower	Upper
130	100		
95	111.2	98.1	147.1
132	90.9	80.3	120.5
97	73.9	63.5	95.3





#39

1,2-Dichloropropane

Concen: 7.29 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 22 Feb 2022 13:44 SG-FAM4GL-3

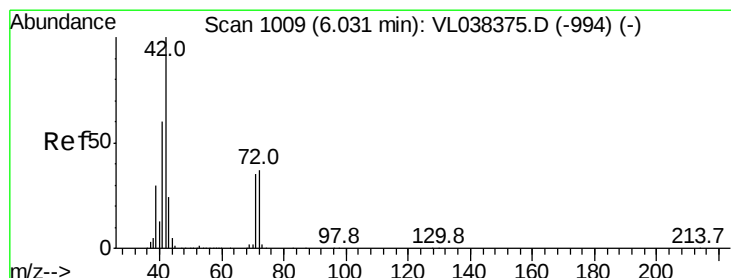
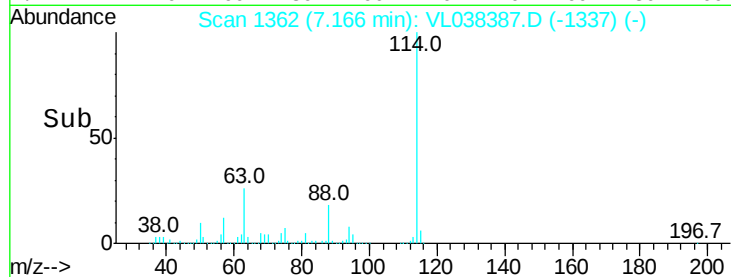
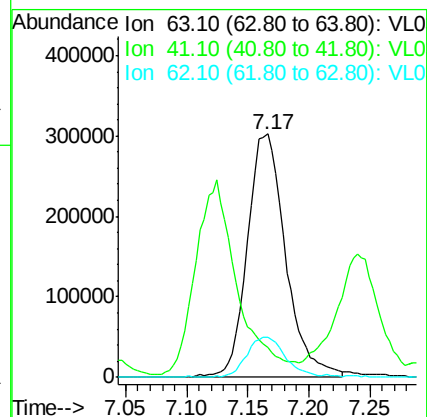
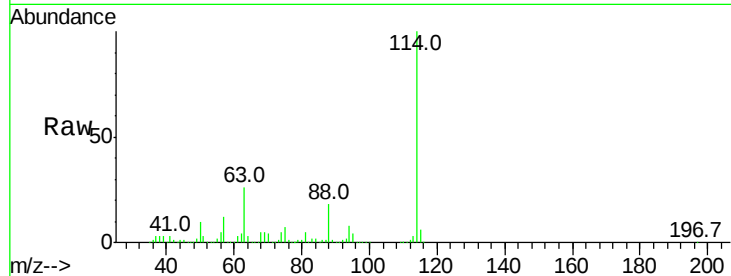
Tgt Ion: 63 Resp: 647442

Ion Ratio Lower Upper

63 100

41 0.0 56.1 84.1#

62 16.2 55.5 83.3#



#41

Tetrahydrofuran

Concen: 0.48 ppbv

RT: 5.97 min Scan# 991

Delta R.T. -0.06 min

Lab File: VL038387.D

Acq: 22 Feb 2022 13:44

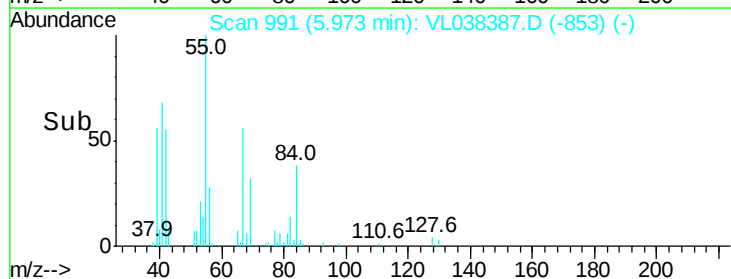
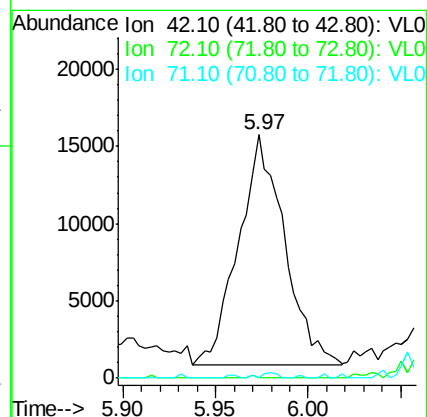
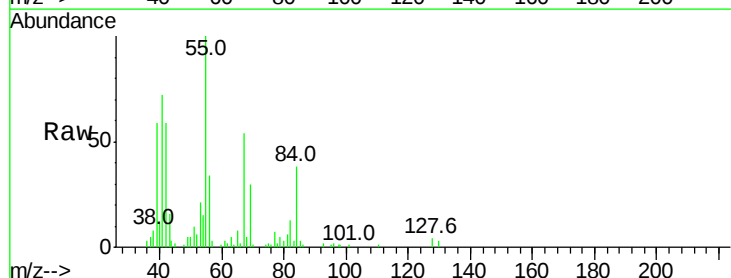
Tgt Ion: 42 Resp: 25689

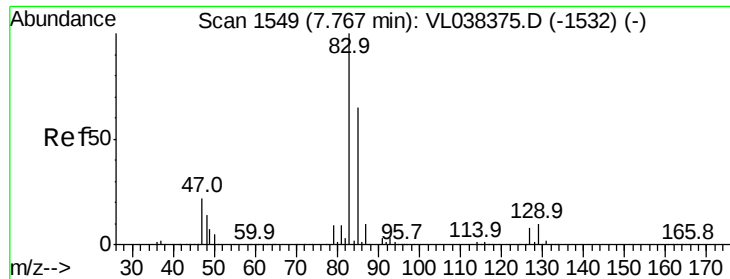
Ion Ratio Lower Upper

42 100

72 12.6 29.9 44.9#

71 10.8 28.6 42.8#





#42

Bromodichloromethane

Concen: 0.24 ppbv

RT: 7.78 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 22 Feb 2022 13:44

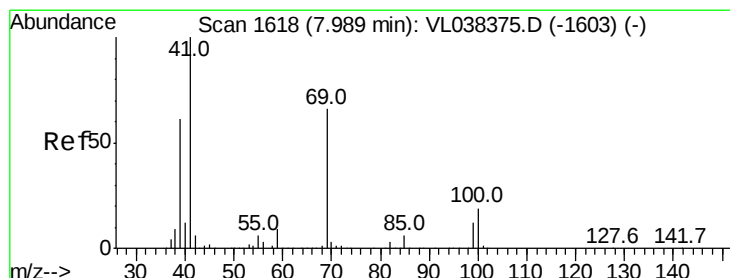
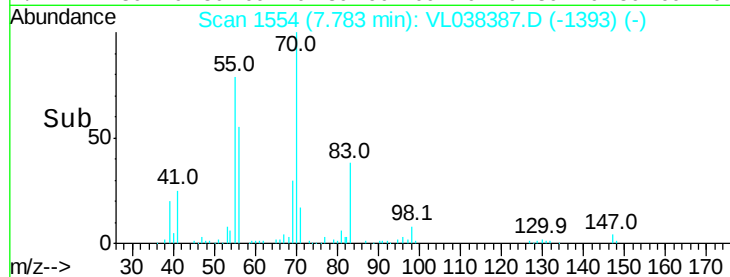
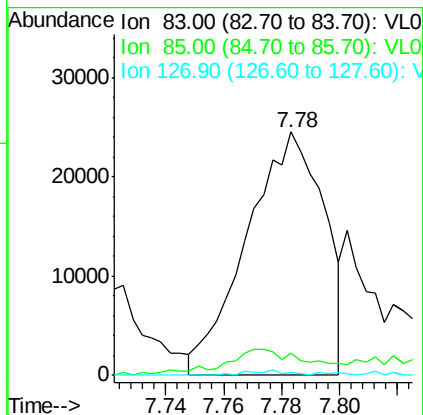
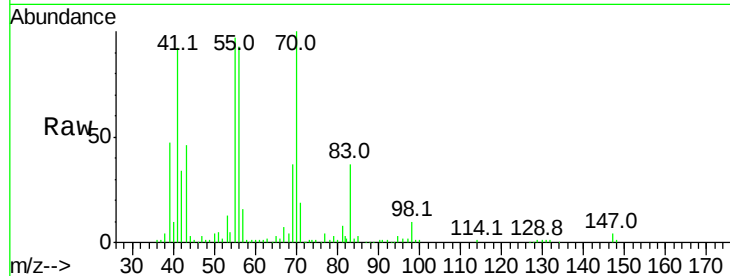
Tgt Ion: 83 Resp: 45318

Ion Ratio Lower Upper

83 100

85 8.2 52.2 78.4#

127 1.4 6.2 9.4#



#43

Methyl Methacrylate

Concen: 0.52 ppbv

RT: 8.00 min Scan# 1622

Delta R.T. 0.01 min

Lab File: VL038387.D

Acq: 22 Feb 2022 13:44

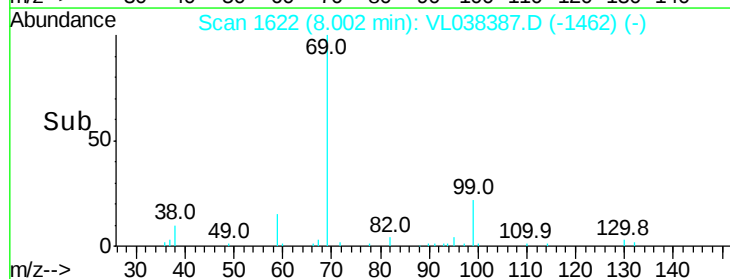
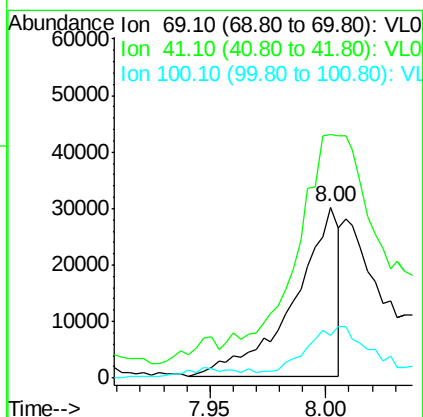
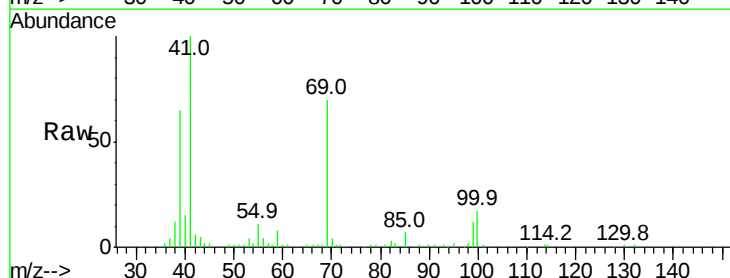
Tgt Ion: 69 Resp: 40164

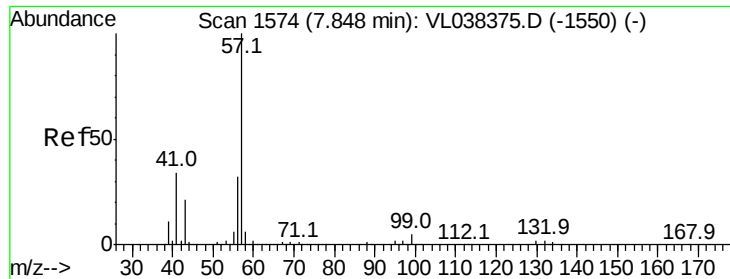
Ion Ratio Lower Upper

69 100

41 337.9 122.9 184.3#

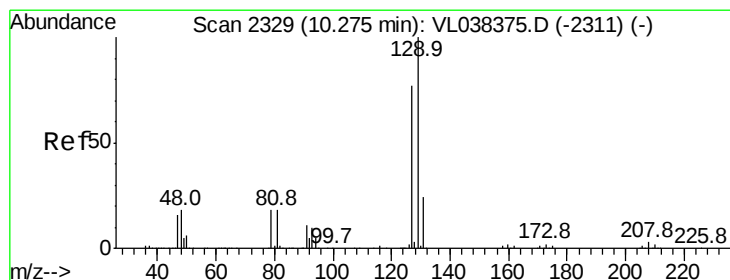
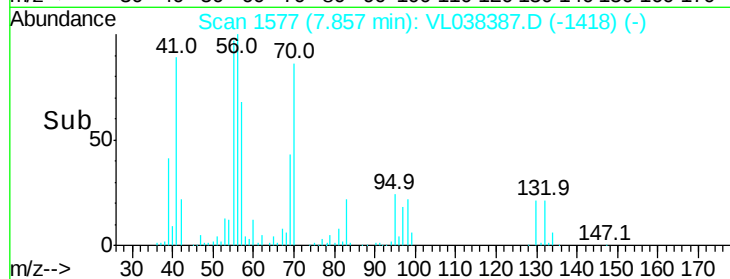
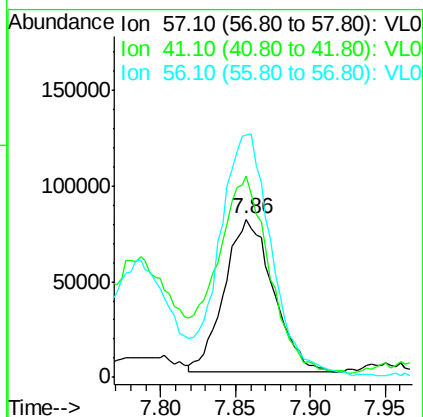
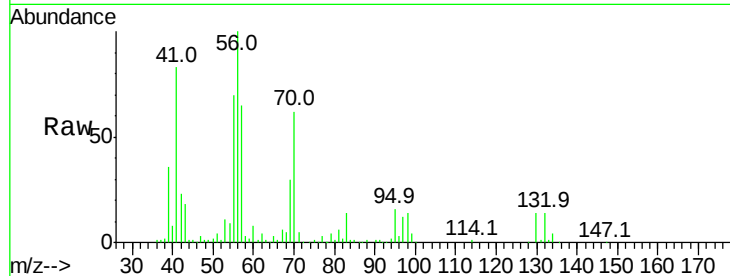
100 0.0 23.6 35.4#





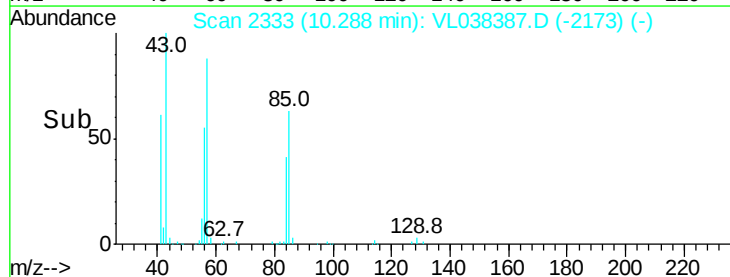
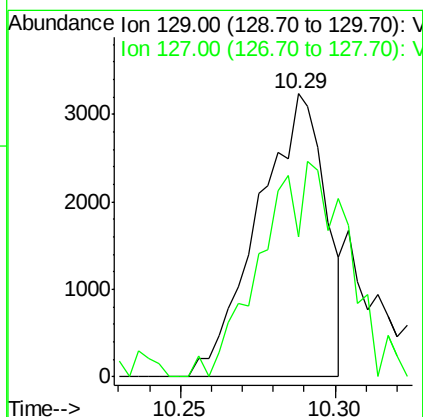
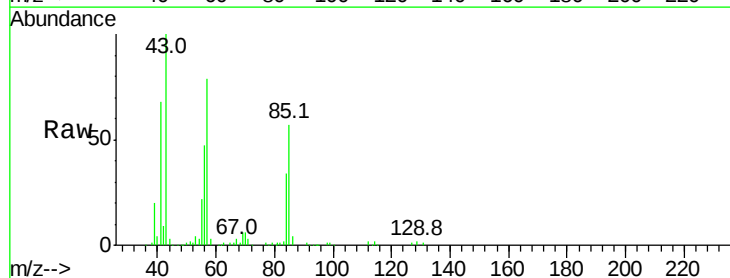
#44
 2,2,4-Trimethylpentane
 Concen: 0.48 ppbv
 RT: 7.86 Instrument: MSVOA_1
 Delta R.T. ClientSampleId:
 Lab File: SG-FAM4GL-3
 Acq: 22 Feb 2022 13:44

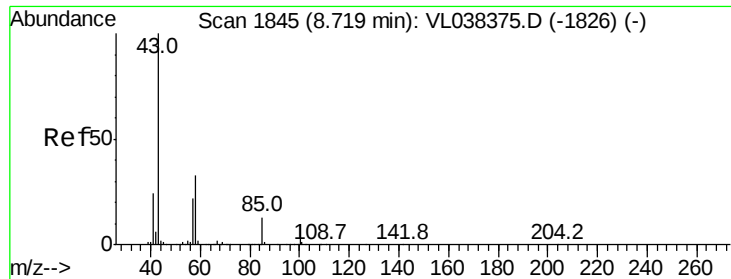
Tgt Ion: 57 Resp: 182465
 Ion Ratio Lower Upper
 57 100
 41 143.4 26.6 39.8#
 56 170.1 25.0 37.6#



#48
 Dibromochloromethane
 Concen: 0.03 ppbv
 RT: 10.29 min Scan# 2333
 Delta R.T. 0.01 min
 Lab File: VL038387.D
 Acq: 22 Feb 2022 13:44

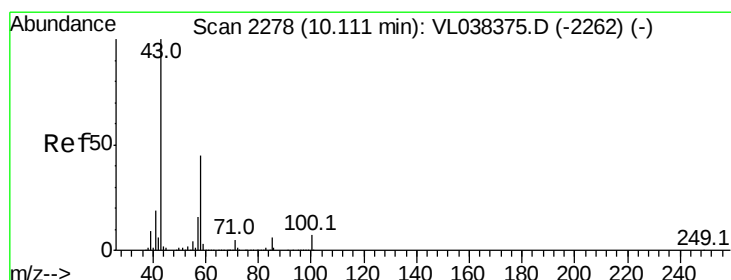
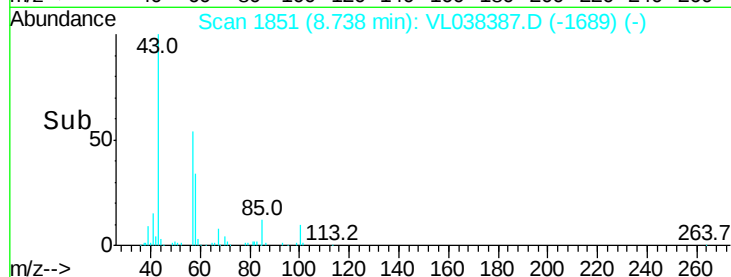
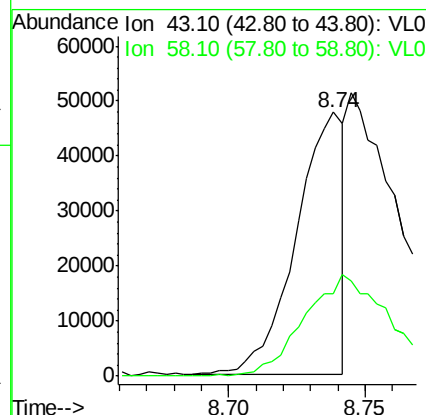
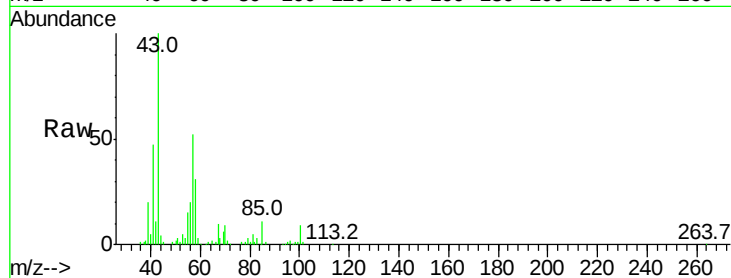
Tgt Ion: 129 Resp: 4922
 Ion Ratio Lower Upper
 129 100
 127 99.1 39.4 118.1





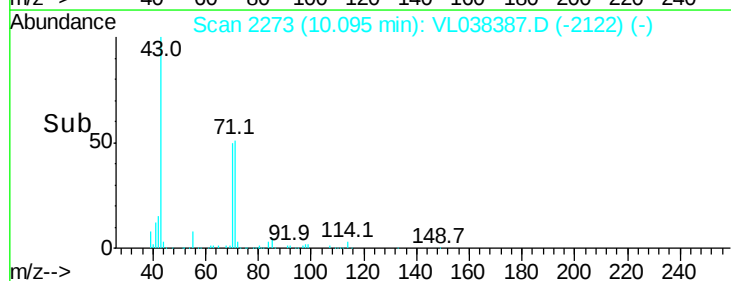
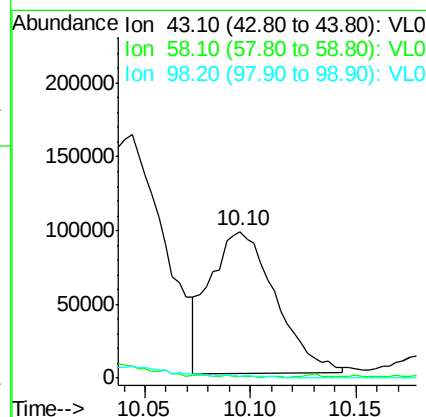
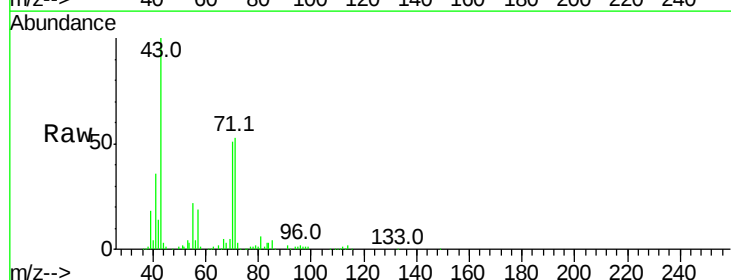
#50
 4-Methyl-2-Pentanone
 Concen: 0.41 ppbv
 RT: 8.74
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 SG-FAM4GL-3
 Acq: 22 Feb 2022 13:44

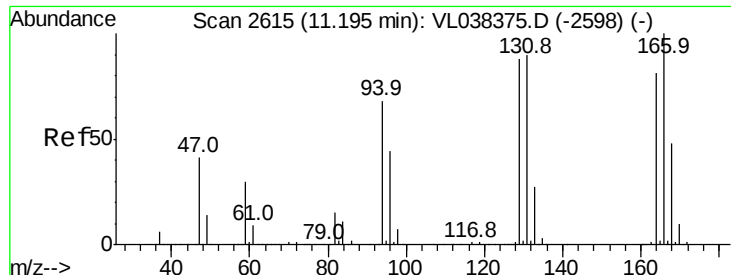
Tgt Ion: 43 Resp: 57890
 Ion Ratio Lower Upper
 43 100
 58 0.0 27.7 41.5#



#51
 2-Hexanone
 Concen: 3.27 ppbv
 RT: 10.10 min Scan# 2273
 Delta R.T. -0.02 min
 Lab File: VL038387.D
 Acq: 22 Feb 2022 13:44

Tgt Ion: 43 Resp: 206466
 Ion Ratio Lower Upper
 43 100
 58 1.9 37.4 56.0#
 98 0.0 0.1 0.1#





#52

Tetrachloroethene

Concen: 7.93 ppbv

RT: 11.21 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

SG-FAM4GL-3

Acq: 22 Feb 2022 13:44

Tgt Ion: 164 Resp: 587450

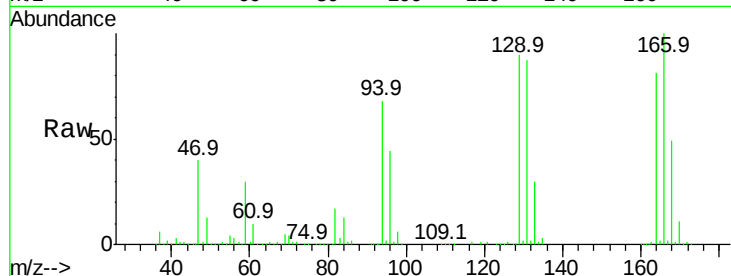
Ion Ratio Lower Upper

164 100

166 123.6 98.6 148.0

129 111.8 86.9 130.3

131 108.1 88.6 133.0

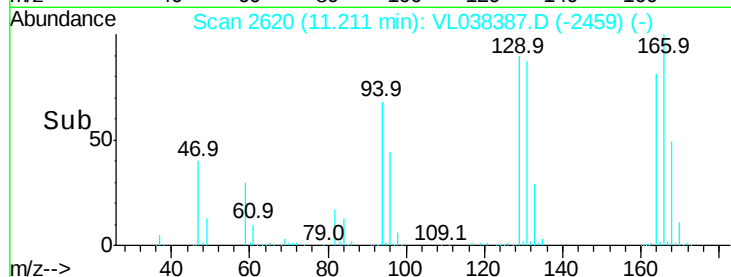


Abundance Ion 163.90 (163.60 to 164.60): V

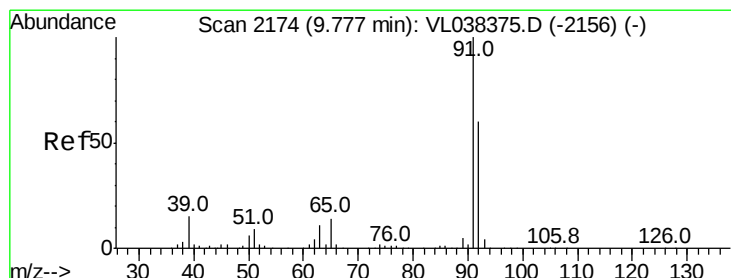
Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



Time--> 11.10 11.20 11.30



#53

Toluene

Concen: 5.95 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. 0.01 min

Lab File: VL038387.D

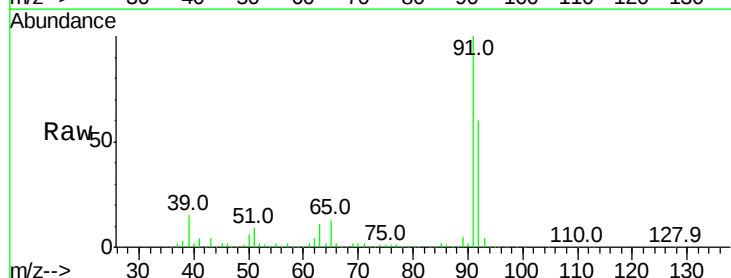
Acq: 22 Feb 2022 13:44

Tgt Ion: 91 Resp: 1440720

Ion Ratio Lower Upper

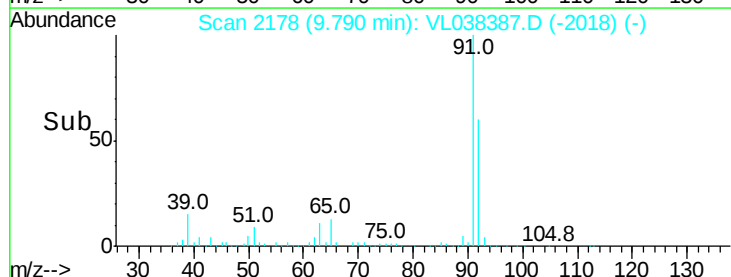
91 100

92 60.3 48.2 72.4

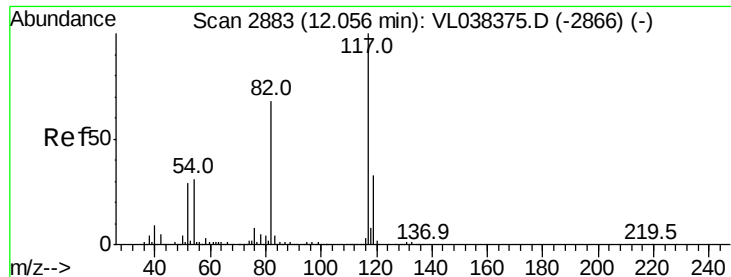


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

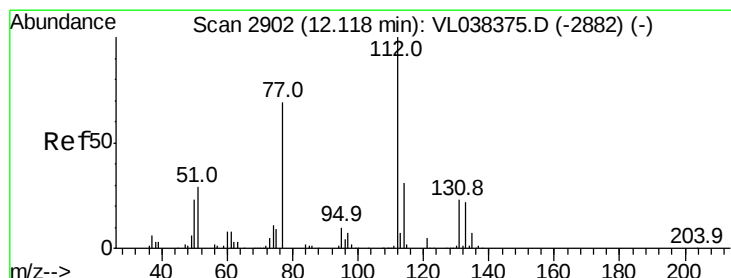
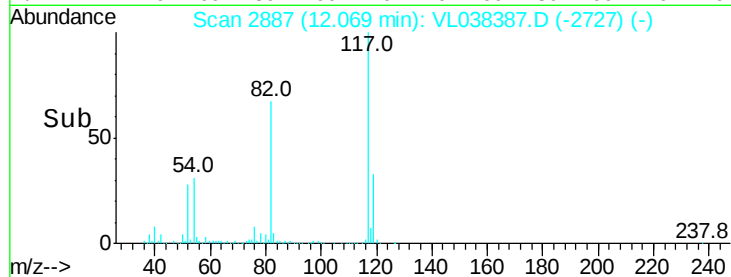
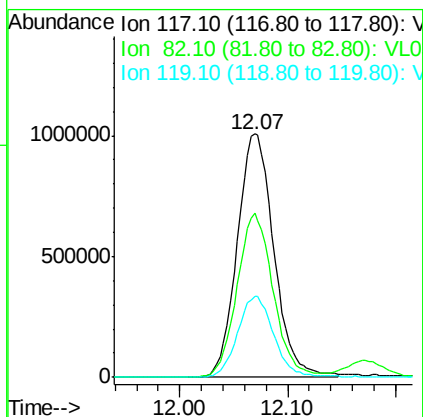
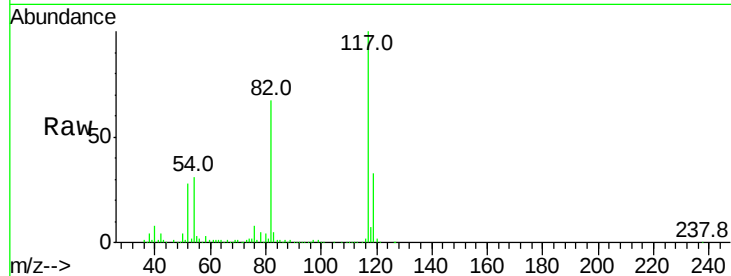


Time--> 9.70 9.75 9.80 9.85 9.90



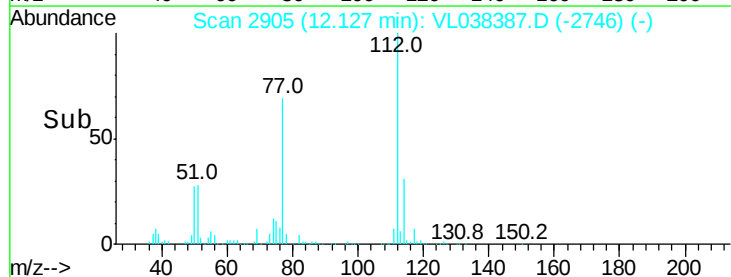
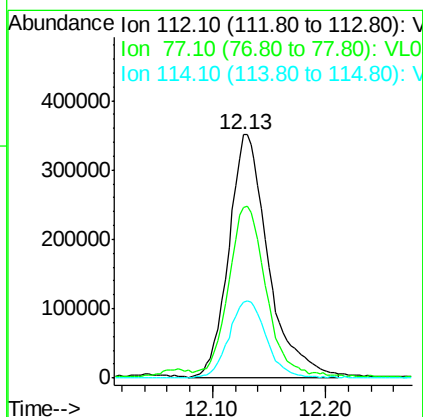
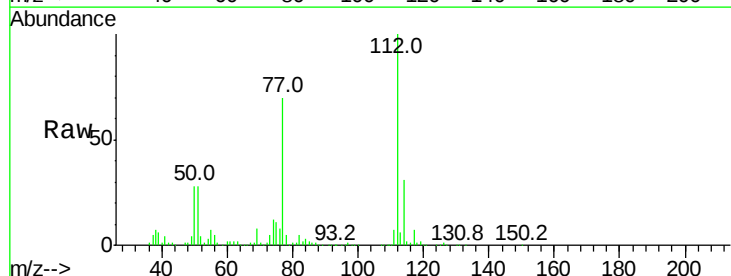
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.07 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampled :
SG-FAM4GL-3
Acq: 22 Feb 2022 13:44

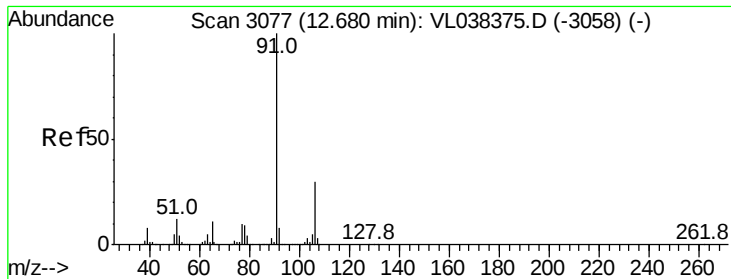
Tgt Ion:117 Resp: 2388178
Ion Ratio Lower Upper
117 100
82 66.5 54.9 82.3
119 33.2 46.1 69.1#



#57
Chlorobenzene
Concen: 4.59 ppbv
RT: 12.13 min Scan# 2905
Delta R.T. 0.01 min
Lab File: VL038387.D
Acq: 22 Feb 2022 13:44

Tgt Ion:112 Resp: 844901
Ion Ratio Lower Upper
112 100
77 69.0 55.2 82.8
114 31.2 27.9 34.1





#58

Ethyl Benzene

Concen: 1.33 ppbv

RT: 12.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

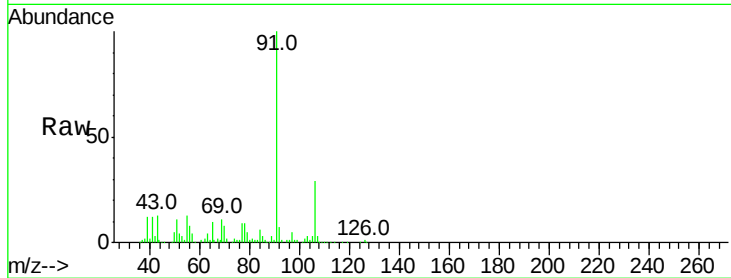
Acq: 22 Feb 2022 13:44

Tgt Ion: 91 Resp: 435574

Ion Ratio Lower Upper

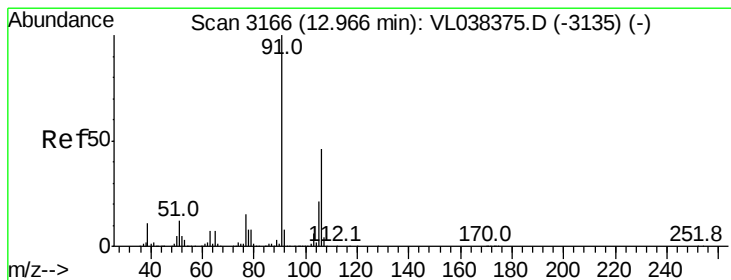
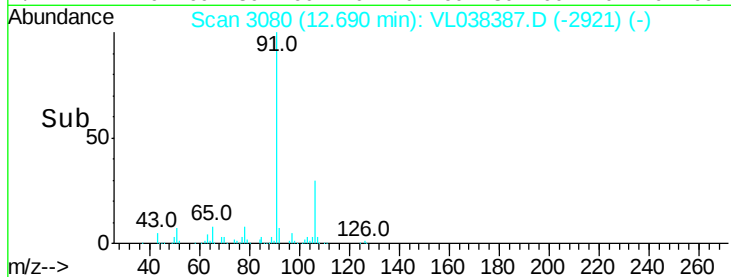
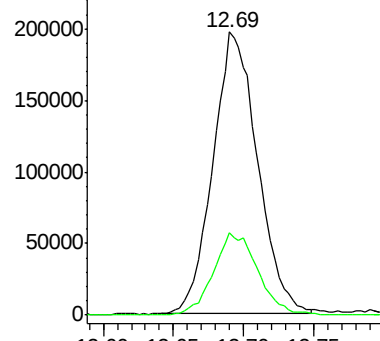
91 100

106 29.3 24.0 36.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 2.26 ppbv

RT: 12.95 min Scan# 3161

Delta R.T. -0.02 min

Lab File: VL038387.D

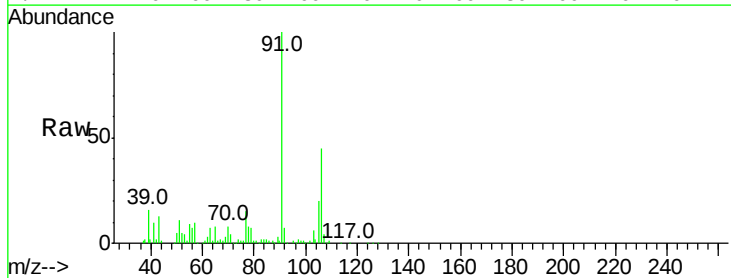
Acq: 22 Feb 2022 13:44

Tgt Ion: 91 Resp: 634298

Ion Ratio Lower Upper

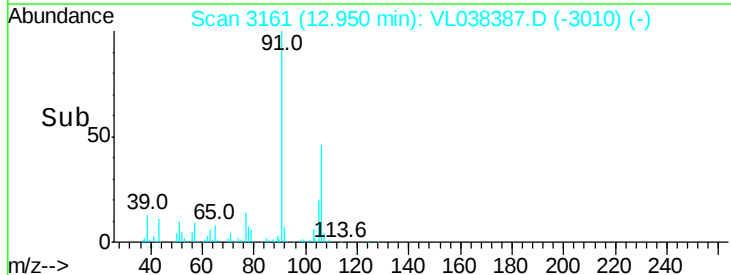
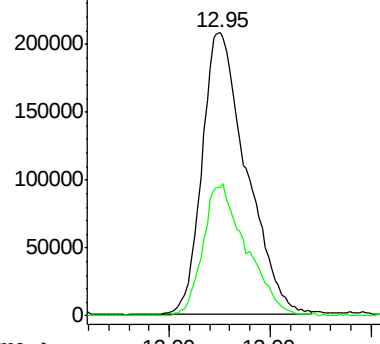
91 100

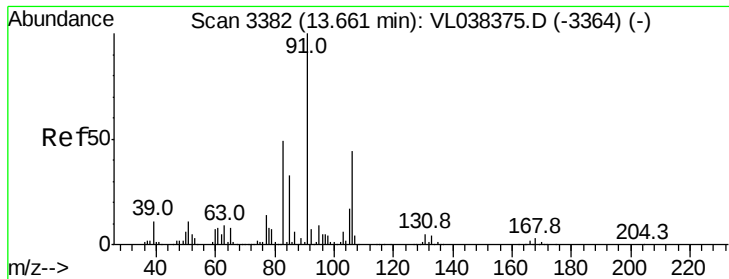
106 46.0 34.4 51.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

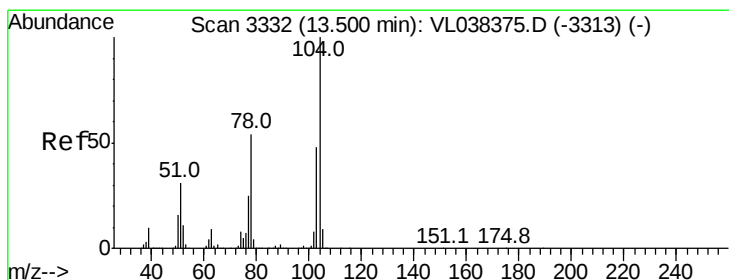
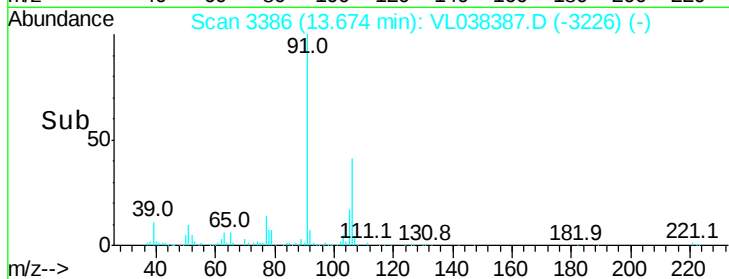
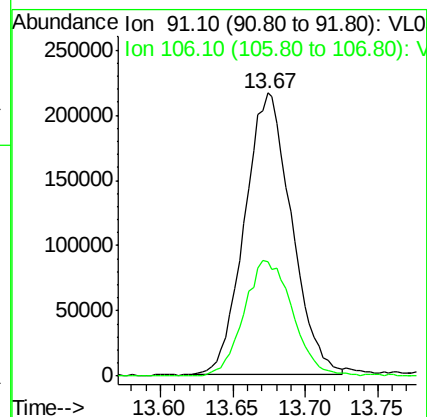
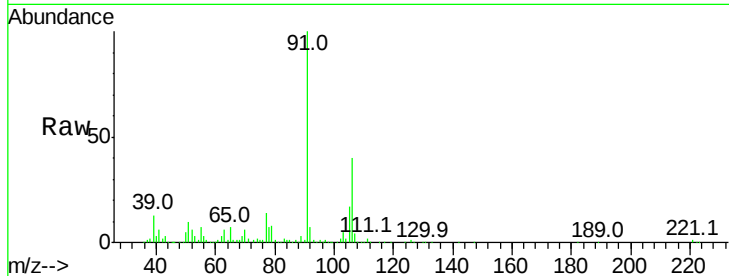
Ion 106.10 (105.80 to 106.80): V





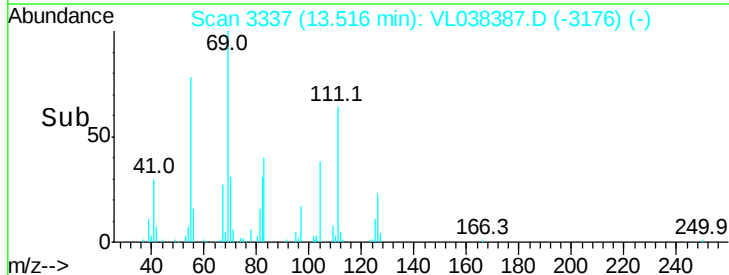
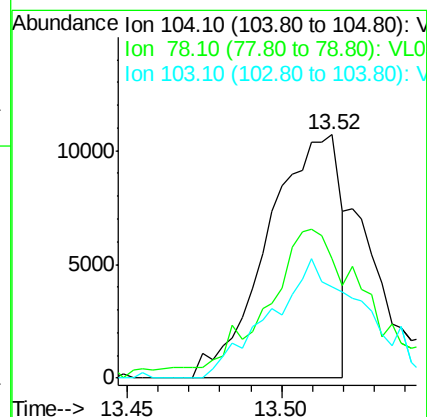
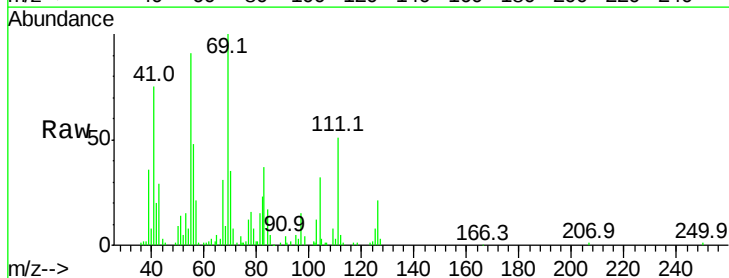
#60
o-Xylene
Concen: 1.83 ppbv
RT: 13.67
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 22 Feb 2022 13.44

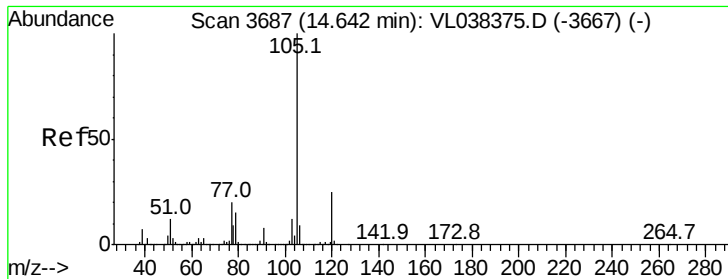
Tgt Ion: 91 Resp: 486467
Ion Ratio Lower Upper
91 100
106 43.3 21.9 65.5



#61
Styrene
Concen: 0.14 ppbv
RT: 13.52 min Scan# 3337
Delta R.T. 0.02 min
Lab File: VL038387.D
Acq: 22 Feb 2022 13:44

Tgt Ion: 104 Resp: 17338
Ion Ratio Lower Upper
104 100
78 96.1 44.2 66.4#
103 67.7 38.4 57.6#





#62

Isopropylbenzene

Concen: 0.49 ppbv

RT: 14.65

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

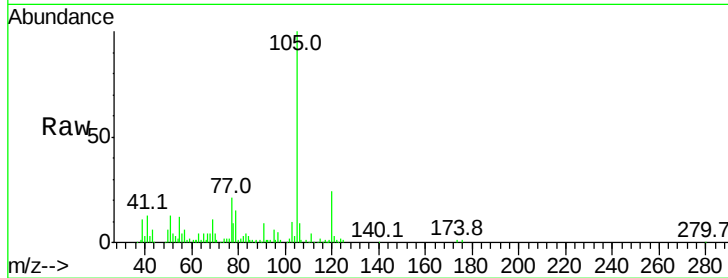
Acq: 22 Feb 2022 13:44

Tgt Ion: 105 Resp: 175564

Ion Ratio Lower Upper

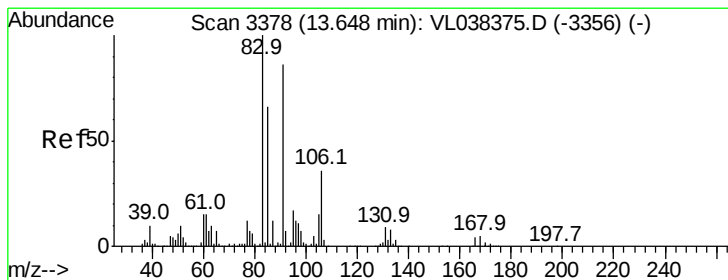
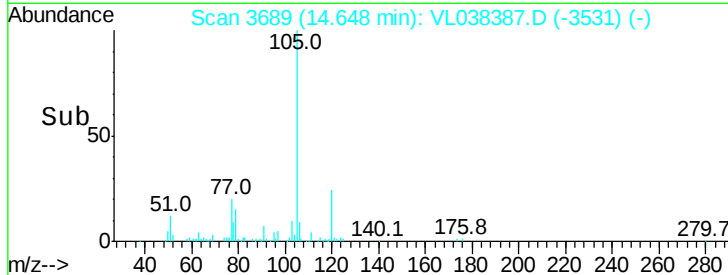
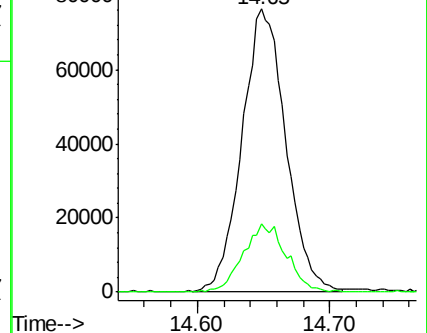
105 100

120 23.8 20.6 30.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.03 ppbv

RT: 13.66 min Scan# 3381

Delta R.T. 0.01 min

Lab File: VL038387.D

Acq: 22 Feb 2022 13:44

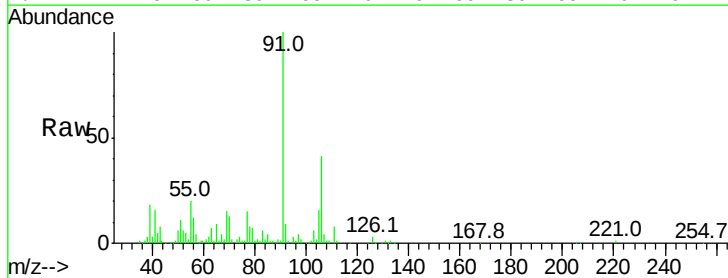
Tgt Ion: 83 Resp: 7042

Ion Ratio Lower Upper

83 100

131 19.3 4.5 13.7#

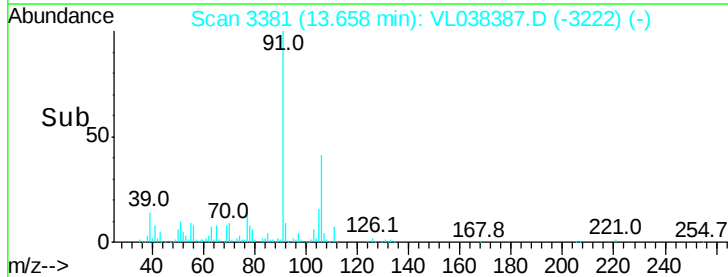
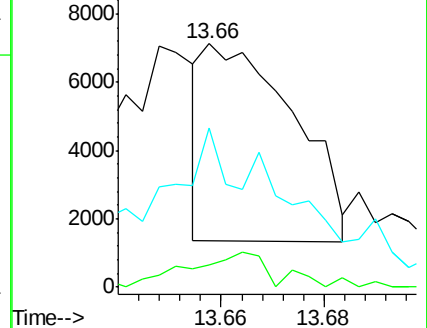
85 146.3 33.0 99.0#

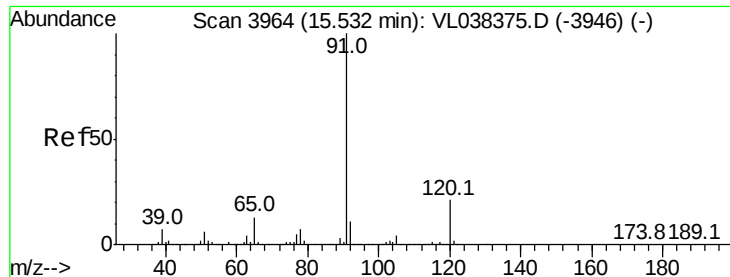


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

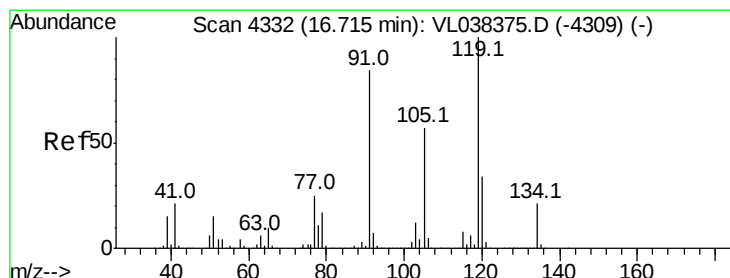
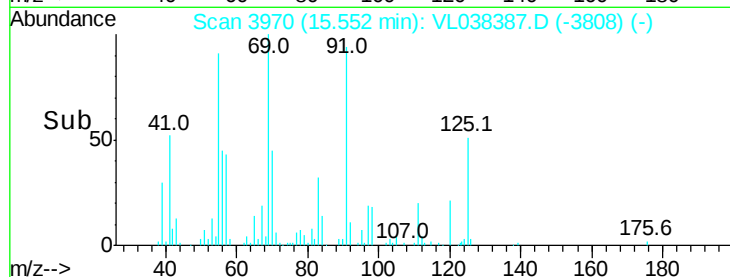
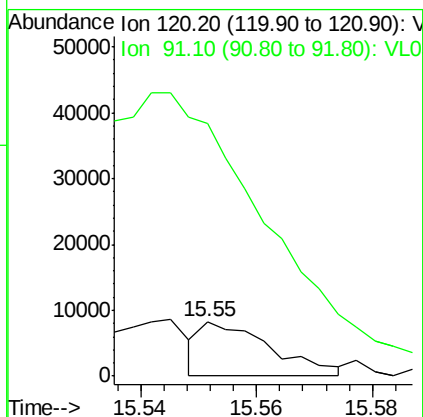
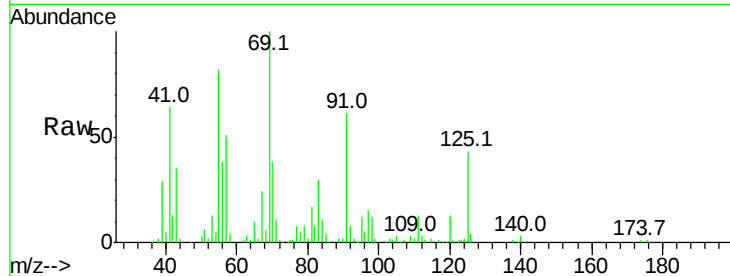
Ion 85.00 (84.70 to 85.70): VL0





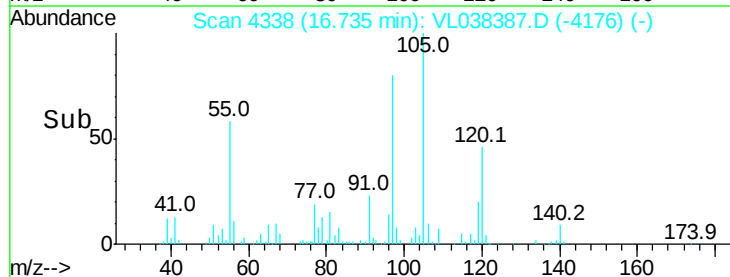
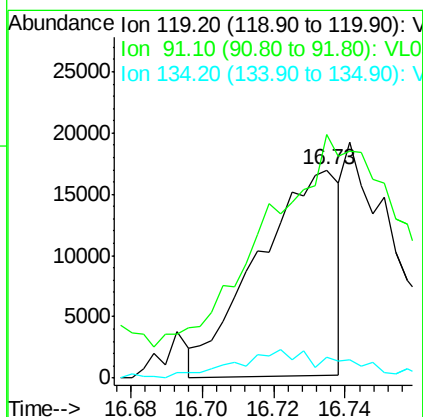
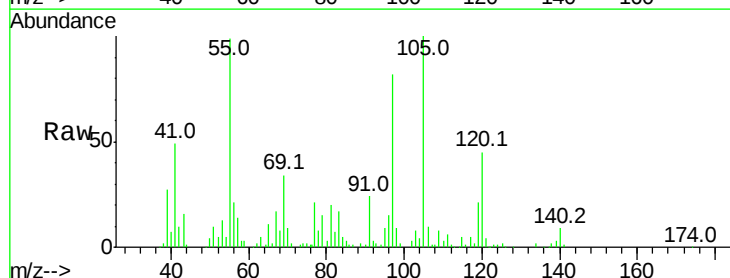
#64
n-propylbenzene
Concen: 0.08 ppbv
RT: 15.55 min
Delta R.T. MSVOA_1
Lab File: ClientSampleId : SG-FAM4GL-3
Acq: 22 Feb 2022 13:44

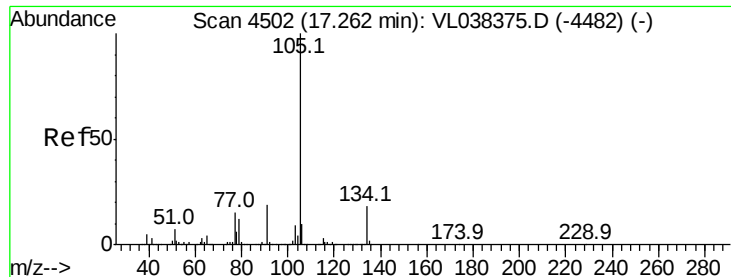
Tgt Ion:120 Resp: 6971
Ion Ratio Lower Upper
120 100
91 0.0 388.1 582.1#



#65
tert-Butylbenzene
Concen: 0.09 ppbv
RT: 16.73 min Scan# 4338
Delta R.T. 0.02 min
Lab File: VL038387.D
Acq: 22 Feb 2022 13:44

Tgt Ion:119 Resp: 26306
Ion Ratio Lower Upper
119 100
91 243.2 68.0 102.0#
134 19.1 15.8 23.8





#67

sec-Butylbenzene

Concen: 0.15 ppbv

RT: 17.27

Delta R.T. MSVOA_L

Lab File: ClientSampled :

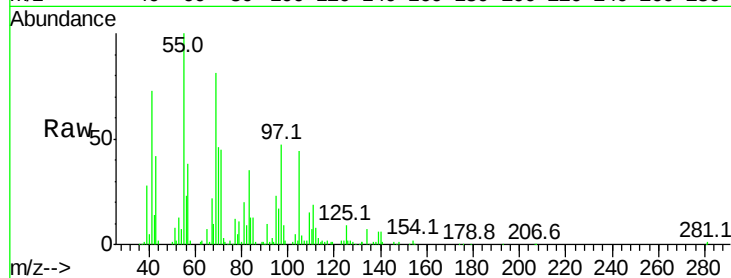
Acq: 22 Feb 2022 13:44

Tgt Ion: 105 Resp: 67522

Ion Ratio Lower Upper

105 100

134 17.6 14.6 21.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.27

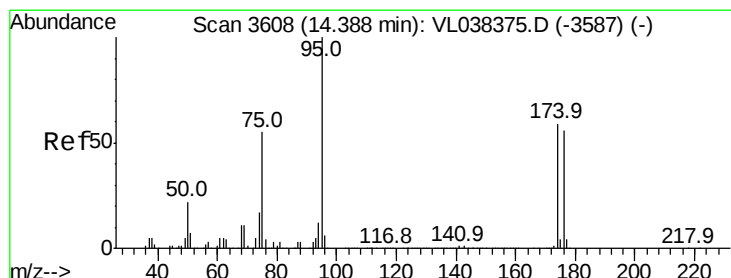
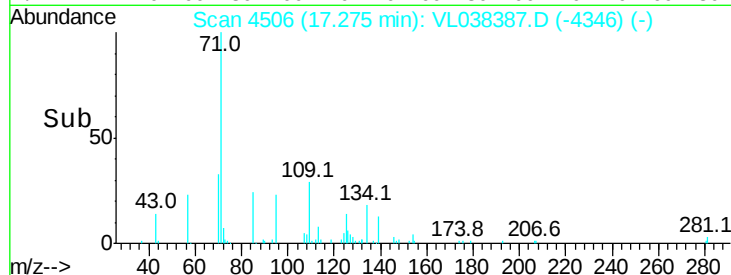
30000

20000

10000

0

Time--> 17.20 17.25 17.30 17.35



#68

1-Bromo-4-Fluorobenzene

Concen: 10.28 ppbv

RT: 14.40 min Scan# 3612

Delta R.T. 0.01 min

Lab File: VL038387.D

Acq: 22 Feb 2022 13:44

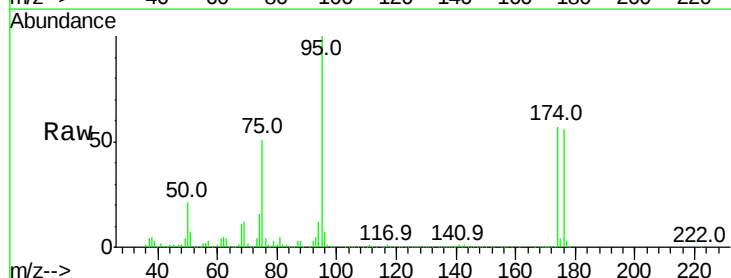
Tgt Ion: 95 Resp: 2031326

Ion Ratio Lower Upper

95 100

174 58.9 49.0 73.4

175 4.5 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

14.40

1000000

800000

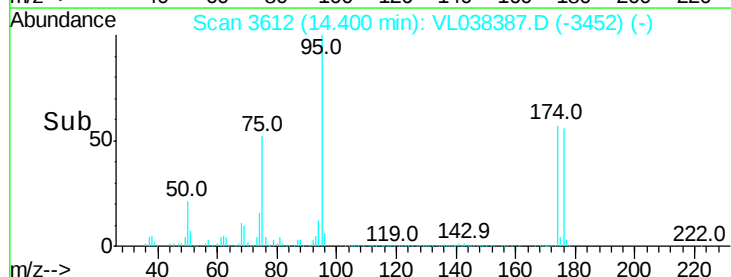
600000

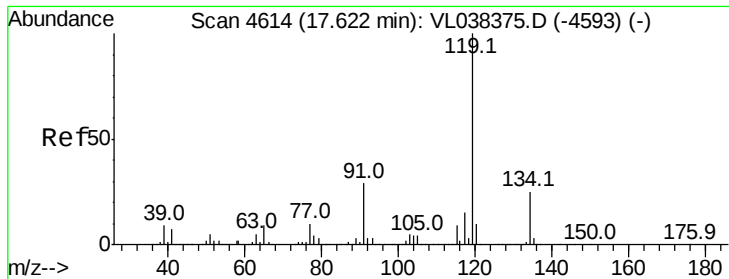
400000

200000

0

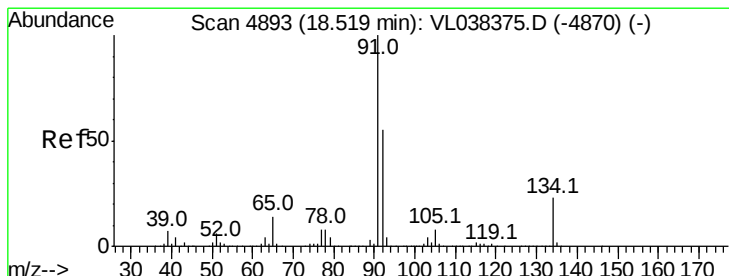
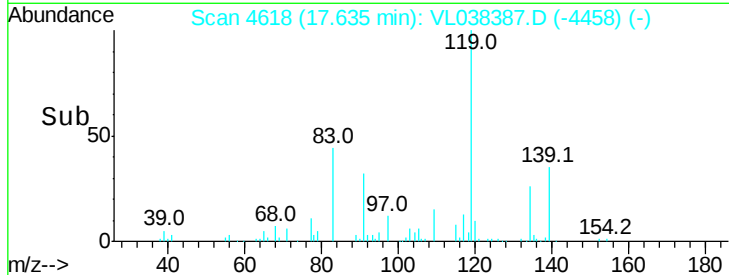
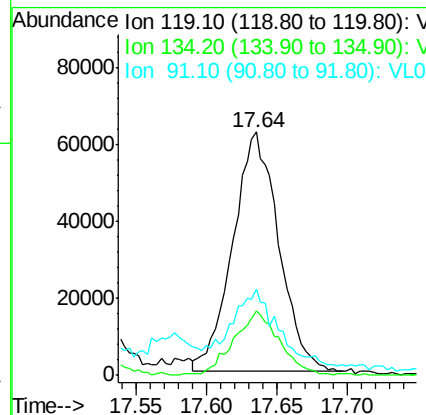
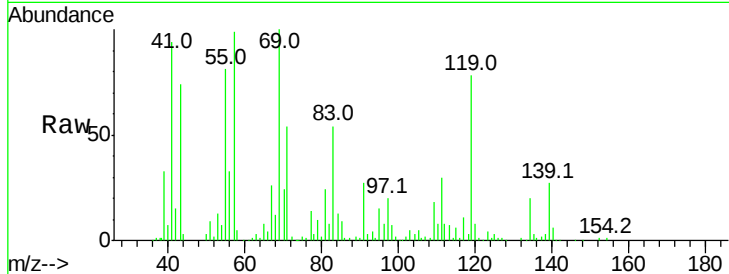
Time--> 14.30 14.40 14.50





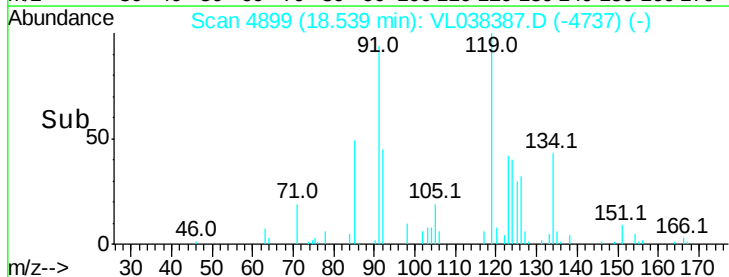
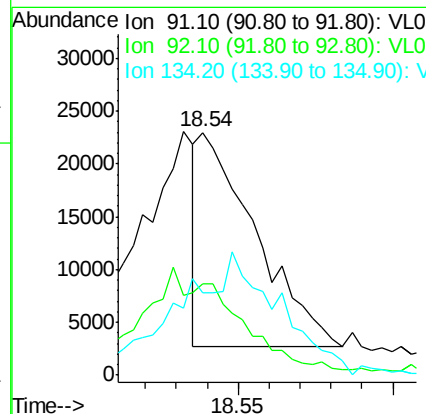
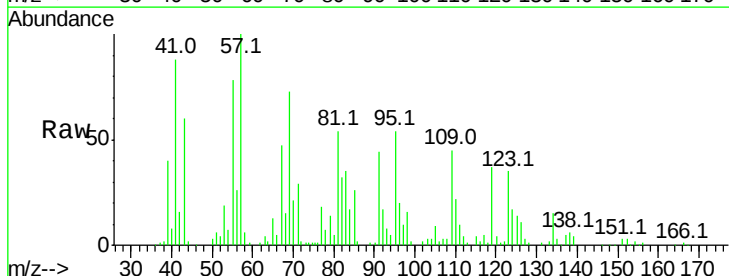
#69
 p-Isopropyltoluene
 Concen: 0.41 ppbv
 RT: 17.64 min
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 SG-FAM4GL-3
 Acq: 22 Feb 2022 13:44

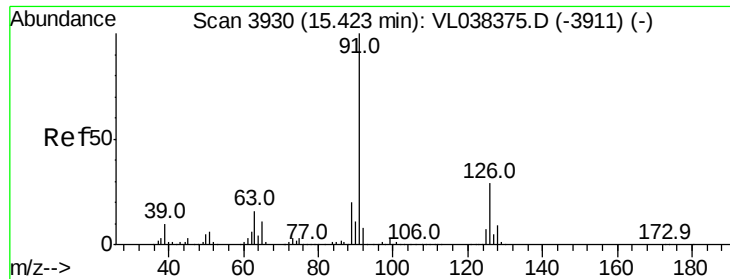
Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.0	20.4	30.6
91	38.3	23.8	35.8



#70
 n-Butylbenzene
 Concen: 0.07 ppbv
 RT: 18.54 min Scan# 4899
 Delta R.T. 0.02 min
 Lab File: VL038387.D
 Acq: 22 Feb 2022 13:44

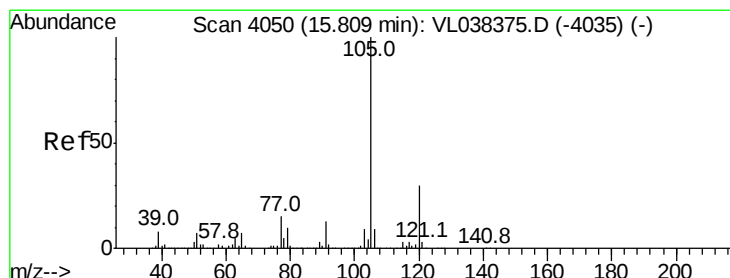
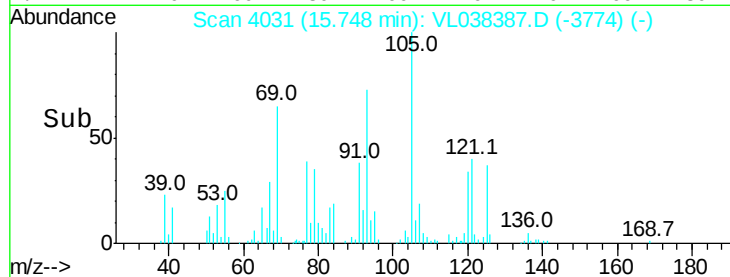
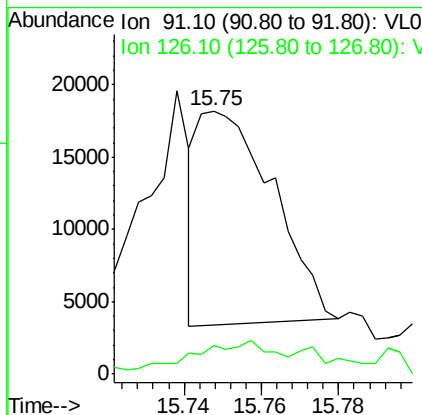
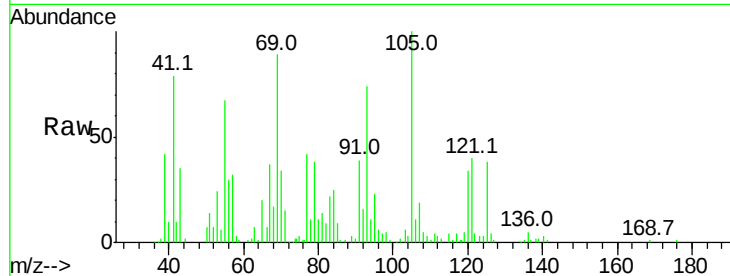
Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	43.1	64.7
134	117.5	17.4	26.0





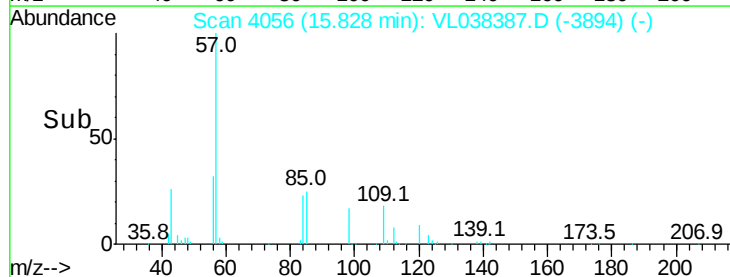
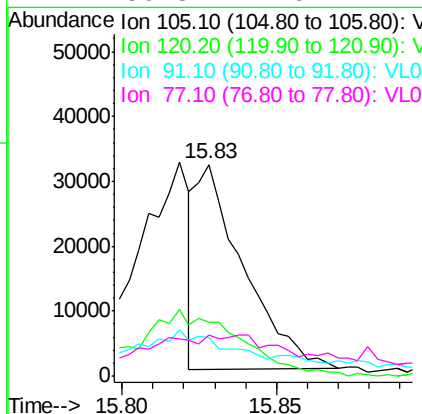
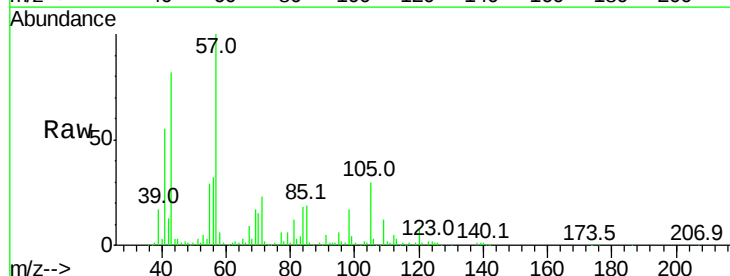
#71
 2-Chlorotoluene
 Concen: 0.07 ppbv
 RT: 15.75
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SG-FAM4GL-3
 Acq: 22 Feb 2022 13:44

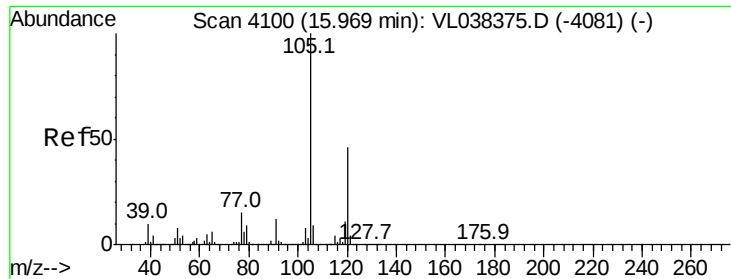
Tgt Ion: 91 Resp: 19871
 Ion Ratio Lower Upper
 91 100
 126 25.5 11.9 47.7



#72
 4-Ethyltoluene
 Concen: 0.12 ppbv
 RT: 15.83 min Scan# 4056
 Delta R.T. 0.02 min
 Lab File: VL038387.D
 Acq: 22 Feb 2022 13:44

Tgt Ion: 105 Resp: 33842
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.4 35.2#
 91 0.0 10.4 15.6#
 77 50.8 11.6 17.4#





#73

1,3,5-Trimethylbenzene

Concen: 0.65 ppbv

RT: 15.98

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

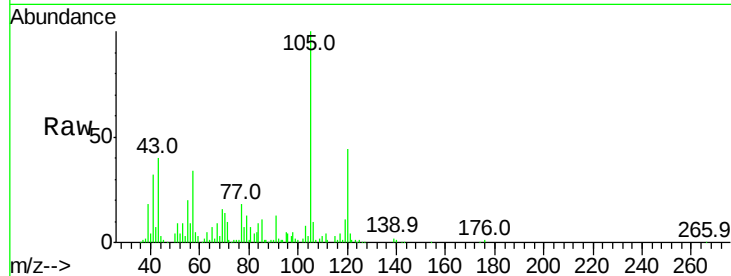
Acq: 22 Feb 2022 13:44

Tgt Ion:105 Resp: 172791

Ion Ratio Lower Upper

105 100

120 44.3 36.6 55.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

15.98

80000

60000

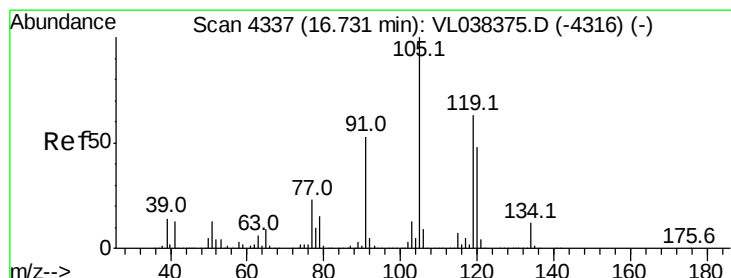
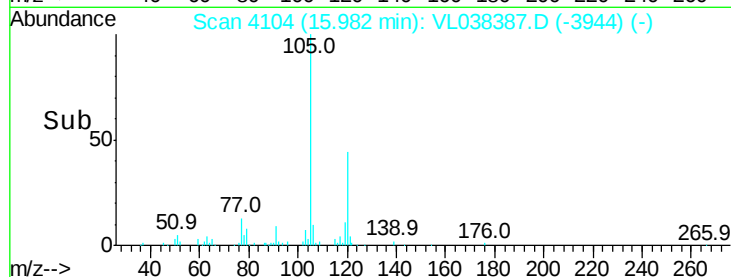
40000

20000

0

15.90 16.00

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.85 ppbv

RT: 16.74 min Scan# 4341

Delta R.T. 0.01 min

Lab File: VL038387.D

Acq: 22 Feb 2022 13:44

Tgt Ion:105 Resp: 239104

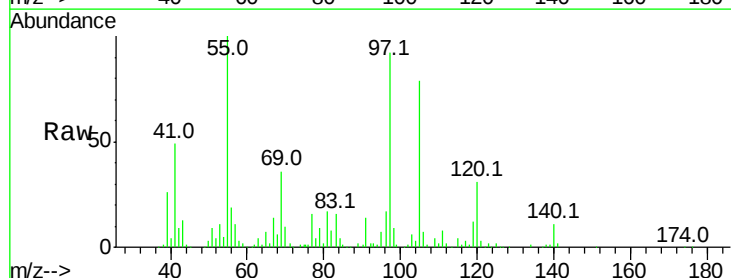
Ion Ratio Lower Upper

105 100

120 38.8 38.2 57.4

91 16.6 42.7 64.1#

77 17.1 18.5 27.7#



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

16.74

150000

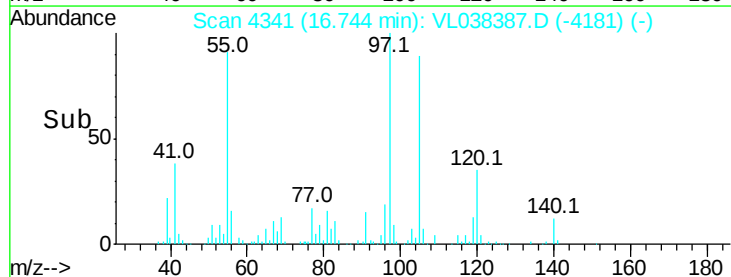
100000

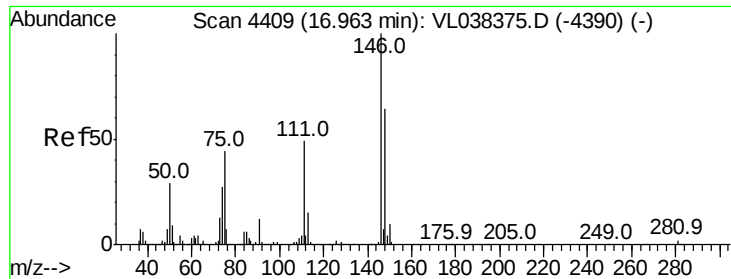
50000

0

16.70 16.80

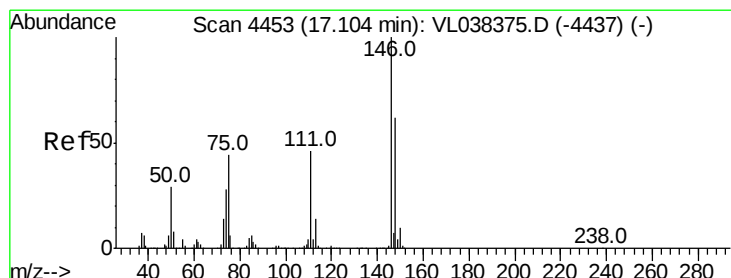
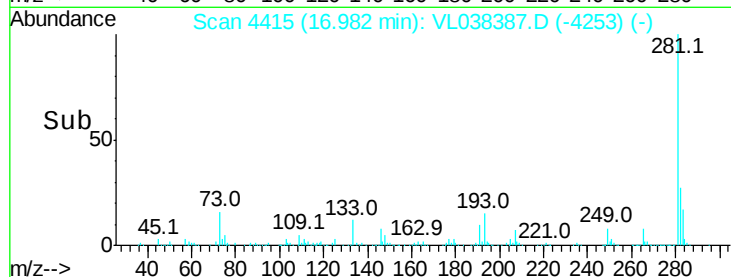
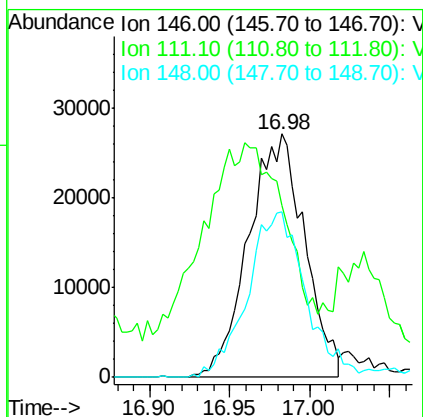
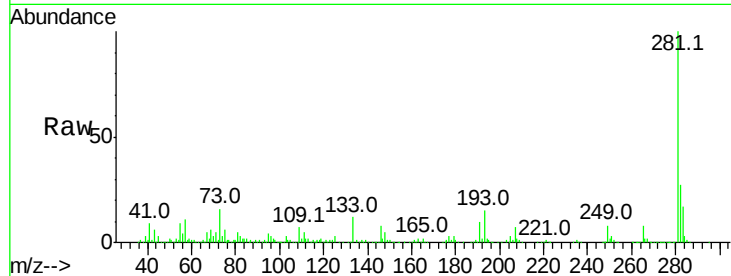
Time-->





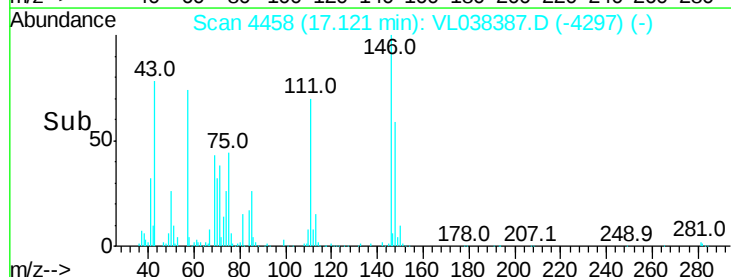
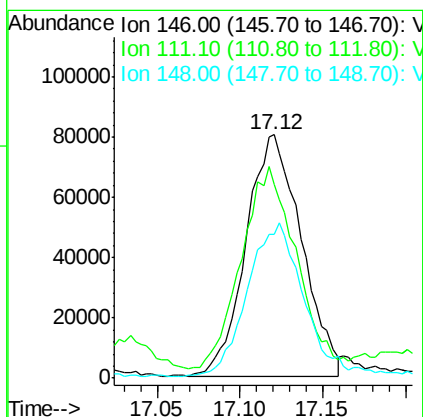
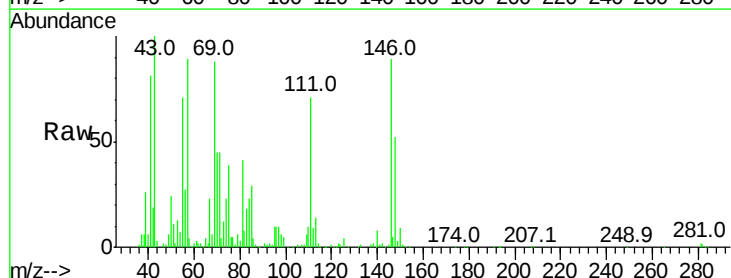
#75
 1,3-Dichlorobenzene
 Concen: 0.42 ppbv
 RT: 16.98 min
 Delta R.T. MSVOA_1
 Lab File: ClientSampled : SG-FAM4GL-3
 Acq: 22 Feb 2022 13:44

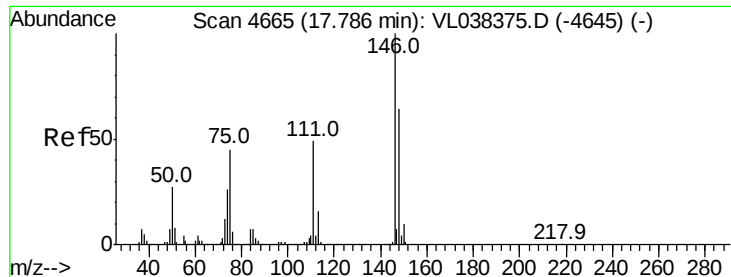
Tgt Ion:146 Resp: 65243
 Ion Ratio Lower Upper
 146 100
 111 120.8 24.3 72.9#
 148 71.1 32.0 96.0



#76
 1,4-Dichlorobenzene
 Concen: 1.20 ppbv
 RT: 17.12 min Scan# 4458
 Delta R.T. 0.02 min
 Lab File: VL038387.D
 Acq: 22 Feb 2022 13:44

Tgt Ion:146 Resp: 185759
 Ion Ratio Lower Upper
 146 100
 111 83.5 24.1 72.2#
 148 68.6 32.8 98.4





#77

1,2-Dichlorobenzene

Concen: 0.66 ppbv

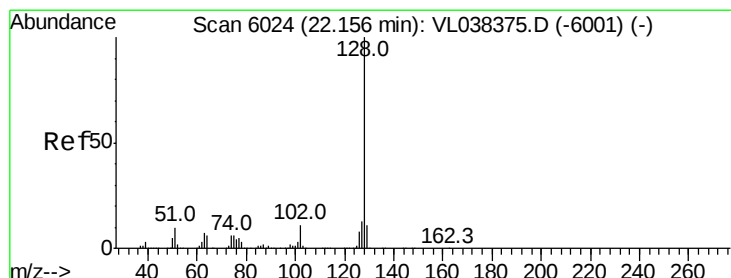
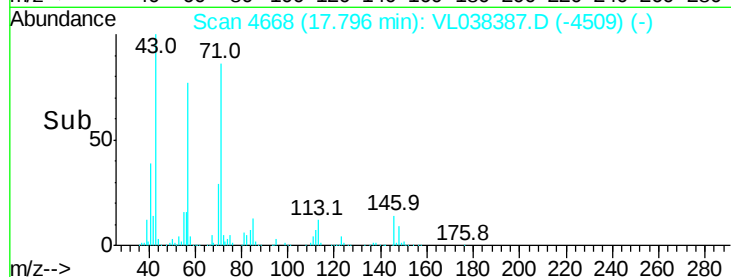
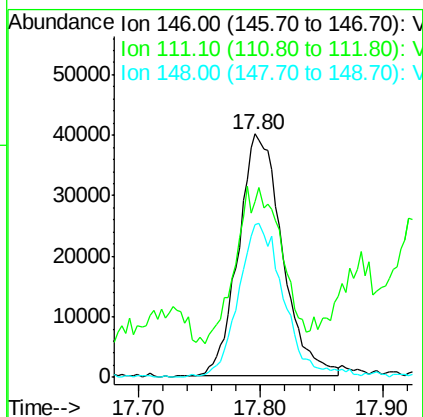
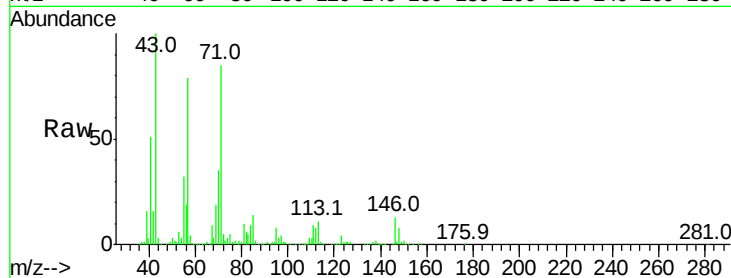
RT: 17.80 min

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 22 Feb 2022 13:44

Tgt Ion:	146	Resp:	99790
Ion Ratio	Lower	Upper	
146	100		
111	69.1	25.6	76.6
148	67.1	32.4	97.2



#79

Naphthalene

Concen: 0.17 ppbv

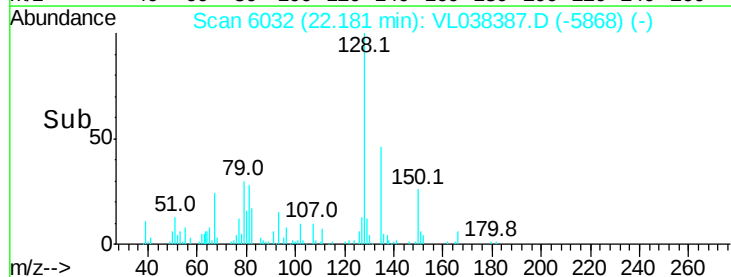
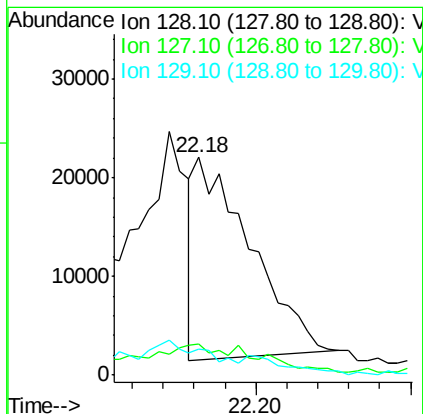
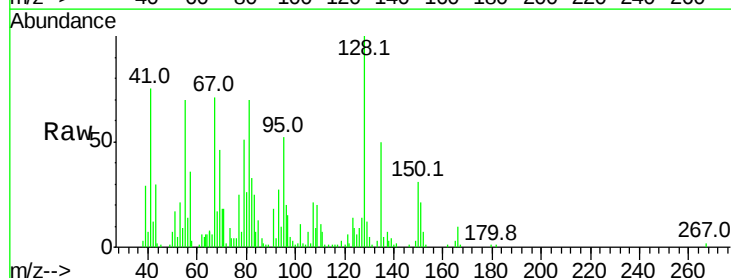
RT: 22.18 min Scan# 6032

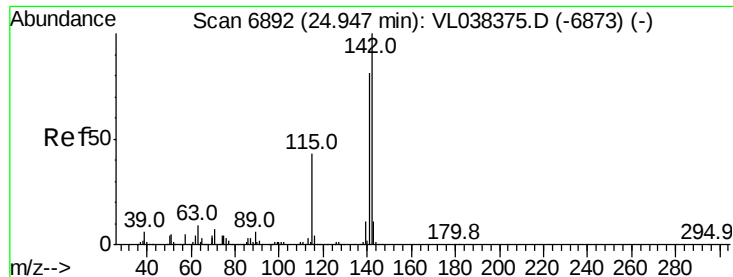
Delta R.T. 0.03 min

Lab File: VL038387.D

Acq: 22 Feb 2022 13:44

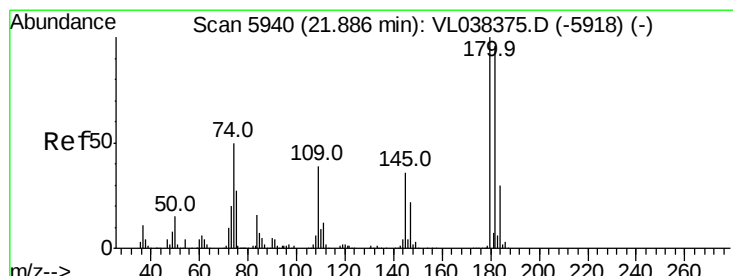
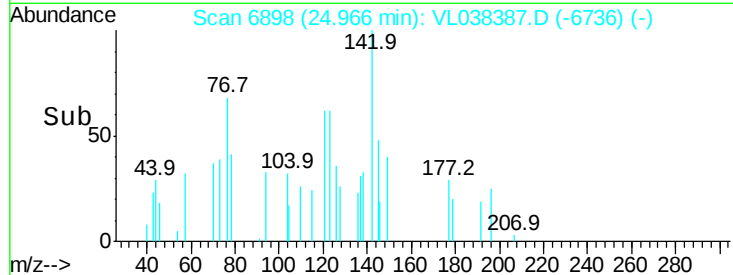
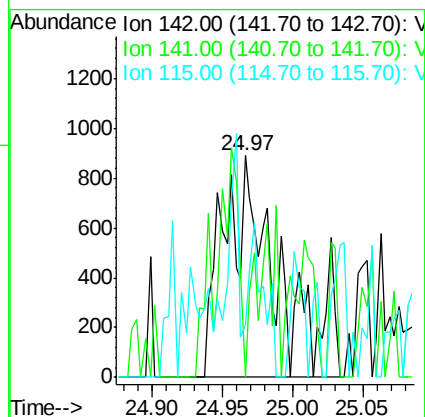
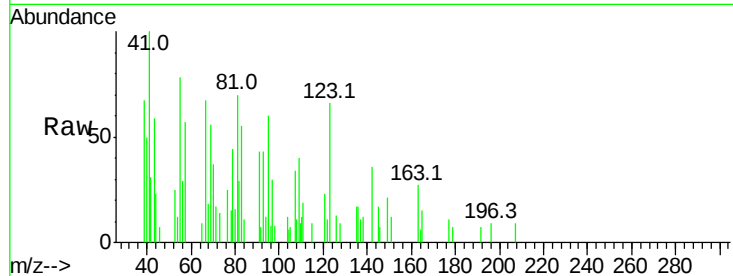
Tgt Ion:	128	Resp:	25513
Ion Ratio	Lower	Upper	
128	100		
127	14.7	10.7	16.1
129	11.0	8.8	13.2





#80
 Naphthalene, 2-methyl-
 Concen: 0.08 ppbv
 RT: 24.97 min
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 22 Feb 2022 13:44

Tgt Ion:	142	Resp:	2399
Ion Ratio	Lower	Upper	
142	100		
141	60.6	69.8	104.6#
115	70.4	33.0	49.6#



#81
 1,2,4-Trichlorobenzene
 Concen: 0.03 ppbv
 RT: 21.91 min Scan# 5947
 Delta R.T. 0.02 min
 Lab File: VL038387.D
 Acq: 22 Feb 2022 13:44

Tgt Ion:	180	Resp:	2853
Ion Ratio	Lower	Upper	
180	100		
182	599.3	77.4	116.2#
184	0.0	24.9	37.3#

