

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032322\
 Data File : VL038746.D
 Acq On : 24 Mar 2022 11:27
 Operator : SY/AP
 Sample : VL0323ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 25 01:09:42 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	890149	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.18	114	2507613	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.09	117	2857391	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1730325	7.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	79.00%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.06	85	1291563	10.79	ppbv	98
3) Chlorodifluoromethane	3.00	51	997948	10.62	ppbv	98
4) Chloromethane	3.15	50	551729	10.69	ppbv	99
5) Vinyl Chloride	3.27	62	541891	10.33	ppbv	99
6) Bromomethane	3.48	94	302854	10.83	ppbv	98
7) Chloroethane	3.56	64	181667	10.46	ppbv	94
8) Dichlorotetrafluoroethane	3.20	85	1261054	10.56	ppbv	94
9) Propene	3.02	41	498934	10.99	ppbv	98
10) Heptane	8.12	43	1160798	10.70	ppbv	99
11) Trichlorofluoromethane	3.95	101	1091236	10.33	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.49	101	858800	10.56	ppbv	97
13) Ethanol	3.61	45	32911	6.57	ppbv	79
14) Bromoethene	3.74	108	402613	11.14	ppbv	98
15) Acetone	3.85	43	785812	10.23	ppbv	97
16) 1,3-Butadiene	3.33	39	476173	10.92	ppbv	100
17) tert-Butyl alcohol	4.29	59	810278	12.08	ppbv	100
18) 1,1-Dichloroethene	4.29	96	393883	10.78	ppbv	98
19) Isopropyl Alcohol	3.97	45	455730	10.70	ppbv #	1
20) Methylene Chloride	4.35	84	319690	9.88	ppbv	97
21) Allyl Chloride	4.42	41	610796	11.05	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	421560	11.13	ppbv	99
23) Vinyl Acetate	5.08	43	877699	11.80	ppbv	99
24) 1,1-Dichloroethane	5.01	63	781088	10.66	ppbv	99
25) Ethyl Acetate	5.68	43	2013901	10.42	ppbv	99
26) Hexane	5.69	57	910224	10.52	ppbv	97
27) Carbon Disulfide	4.56	76	978208	11.52	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	773102	11.99	ppbv	99
29) Chloroform	5.75	83	1423753	10.27	ppbv	99
30) Cyclohexane	7.13	84	801813	10.65	ppbv	97
31) cis-1,2-Dichloroethene	5.55	61	882077	10.84	ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	1427362	10.67	ppbv	99
34) 2-Butanone	5.24	43	895711	9.02	ppbv	98
35) Carbon Tetrachloride	7.02	117	1473807	10.13	ppbv	98
36) Benzene	6.89	78	1959203	10.12	ppbv	99
37) 1,2-Dichloroethane	6.31	62	986107	10.02	ppbv	99
38) Trichloroethene	7.84	130	853236	10.52	ppbv	96
39) 1,2-Dichloropropane	7.61	63	743533	9.83	ppbv	97
40) 1,4-Dioxane	7.83	88	256856	9.78	ppbv #	1
41) Tetrahydrofuran	6.05	42	753316	10.20	ppbv	98
42) Bromodichloromethane	7.79	83	1513946	10.26	ppbv	99
43) Methyl Methacrylate	8.01	69	786032	10.94	ppbv	98

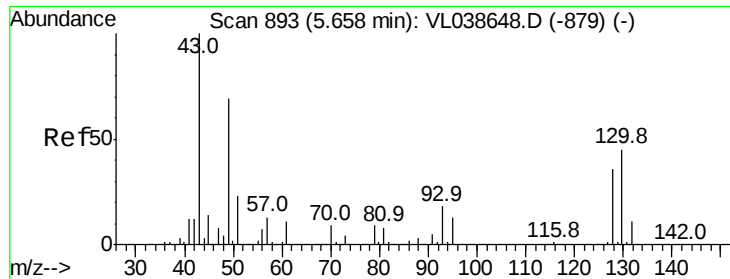
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032322\
 Data File : VL038746.D
 Acq On : 24 Mar 2022 11:27
 Operator : SY/AP
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Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 25 01:09:42 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	3139618	9.66	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	890616	12.19	ppbv	99
46) cis-1,3-Dichloropropene	8.70	75	1108648	11.22	ppbv	98
47) 1,1,2-Trichloroethane	9.48	97	790743	9.79	ppbv	98
48) Dibromochloromethane	10.30	129	1353891	10.70	ppbv	99
49) Bromoform	13.04	173	1100875	10.68	ppbv	100
50) 4-Methyl-2-Pentanone	8.74	43	1882513	10.20	ppbv	99
51) 2-Hexanone	10.13	43	1458749	11.01	ppbv #	99
52) Tetrachloroethene	11.22	164	736377	10.40	ppbv	96
53) Toluene	9.81	91	2217343	10.66	ppbv	100
54) 1,2-Dibromoethane	10.61	107	1157300	10.49	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.12	131	940271	7.94	ppbv	96
57) Chlorobenzene	12.15	112	1612519	7.82	ppbv	97
58) Ethyl Benzene	12.71	91	2793857	8.36	ppbv	99
59) m/p-Xylene	13.00	91	2572621	8.80	ppbv #	41
60) o-Xylene	13.69	91	2192331	7.90	ppbv	98
61) Styrene	13.53	104	1378235	9.16	ppbv	99
62) Isopropylbenzene	14.67	105	3295629	7.90	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.68	83	1436896	6.69	ppbv	100
64) n-propylbenzene	15.56	120	893572	8.16	ppbv	97
65) tert-Butylbenzene	16.74	119	2916651	7.78	ppbv	99
66) Benzyl Chloride	16.99	91	710996	10.02	ppbv	99
67) sec-Butylbenzene	17.29	105	4130631	7.71	ppbv	99
69) p-Isopropyltoluene	17.65	119	3478082	7.95	ppbv	99
70) n-Butylbenzene	18.55	91	3548950	7.87	ppbv	100
71) 2-Chlorotoluene	15.45	91	2412301	7.79	ppbv	99
72) 4-Ethyltoluene	15.84	105	2731072	8.34	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	2369144	7.94	ppbv	97
74) 1,2,4-Trimethylbenzene	16.76	105	2514677	7.74	ppbv	97
75) 1,3-Dichlorobenzene	16.99	146	1608816	7.77	ppbv	98
76) 1,4-Dichlorobenzene	17.14	146	1553922	7.55	ppbv	98
77) 1,2-Dichlorobenzene	17.82	146	1596372	7.78	ppbv	99
78) Hexachloro-1,3-Butadiene	23.37	225	1429082	7.54	ppbv	100
79) Naphthalene	22.19	128	2665573	10.73	ppbv	99
80) Naphthalene,2-methyl-	24.97	142	589444	8.85	ppbv	100
81) 1,2,4-Trichlorobenzene	21.92	180	1524910	8.97	ppbv	99

(#) = 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: 24 Mar 2022 11:27

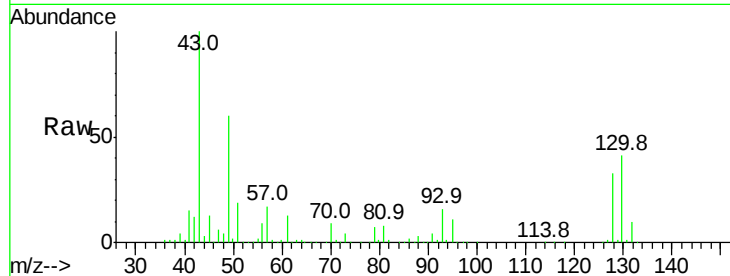
Tgt Ion: 49 Resp: 890149

Ion Ratio Lower Upper

49 100

128 55.9 26.2 78.6

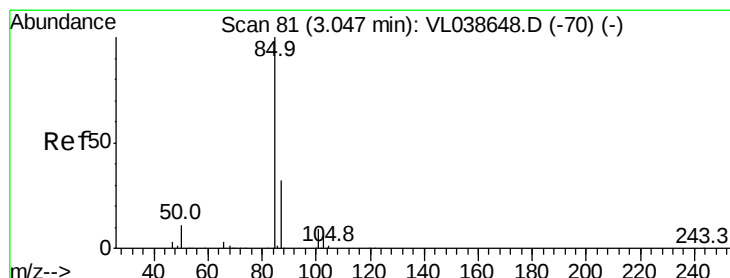
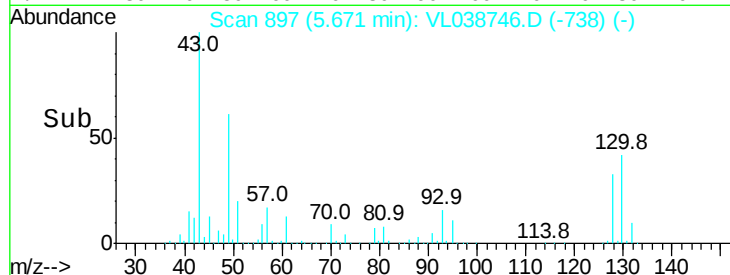
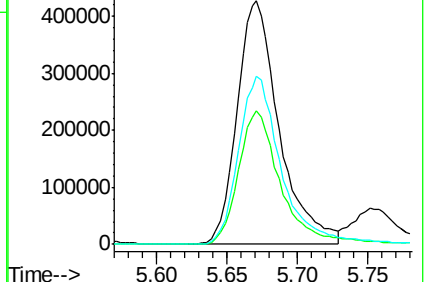
130 71.5 33.7 101.1



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: 10.79 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL038746.D

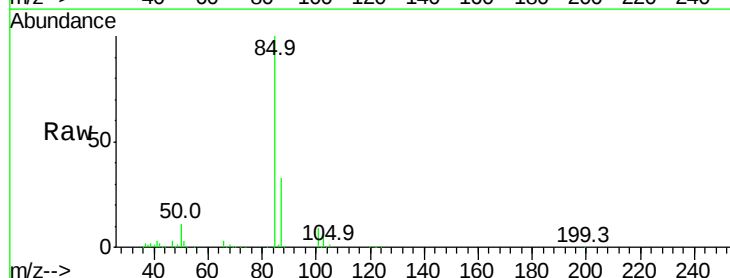
Acq: 24 Mar 2022 11:27

Tgt Ion: 85 Resp: 1291563

Ion Ratio Lower Upper

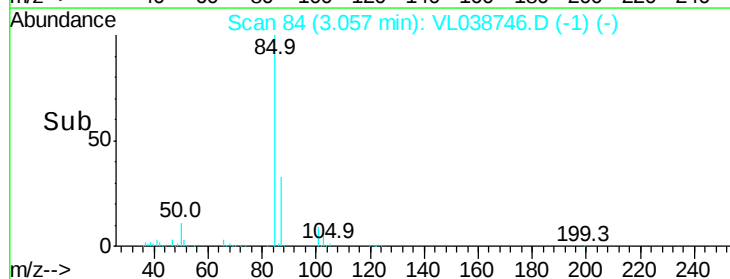
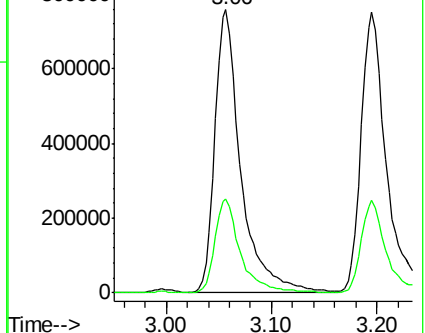
85 100

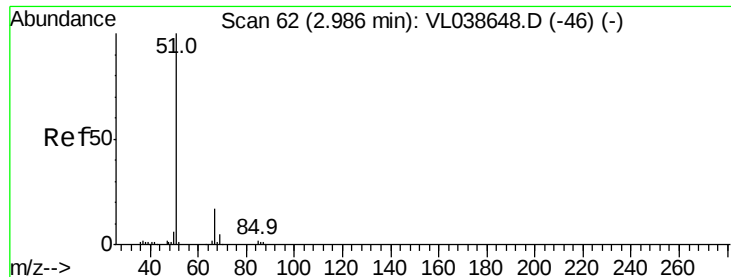
87 33.4 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.62 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

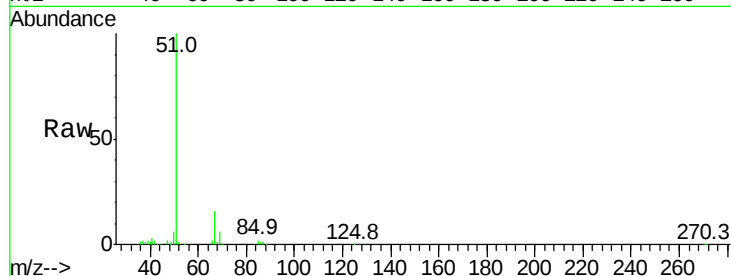
Acq: 24 Mar 2022 11:27

Tgt Ion: 51 Resp: 997948

Ion Ratio Lower Upper

51 100

67 16.9 14.1 21.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.00

600000

500000

400000

300000

200000

100000

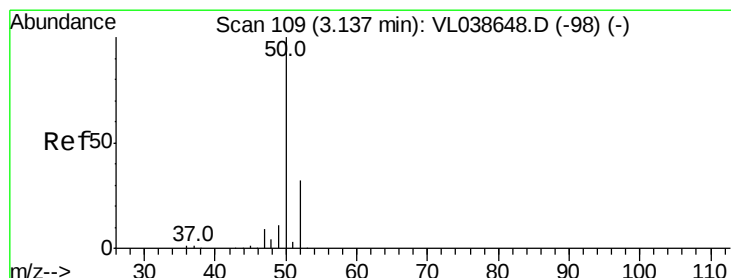
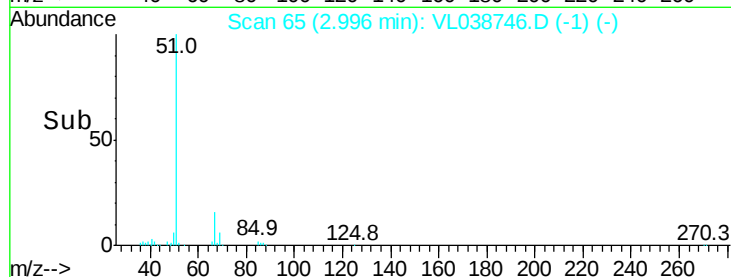
0

Time-->

2.90

3.00

3.10



#4

Chloromethane

Concen: 10.69 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL038746.D

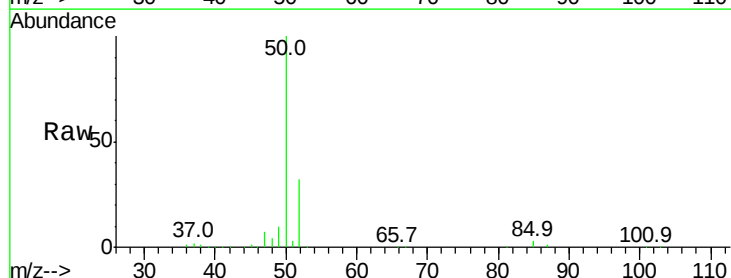
Acq: 24 Mar 2022 11:27

Tgt Ion: 50 Resp: 551729

Ion Ratio Lower Upper

50 100

52 32.2 25.5 38.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.15

300000

200000

100000

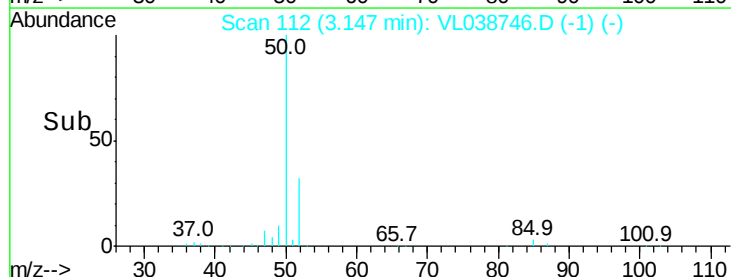
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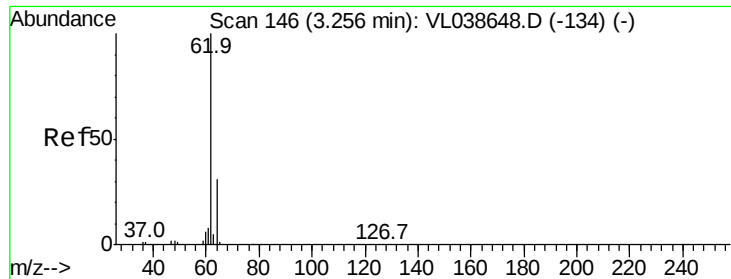
Time-->

3.10

3.15

3.20





#5

Vinyl Chloride

Concen: 10.33 ppbv

RT: 3.27 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

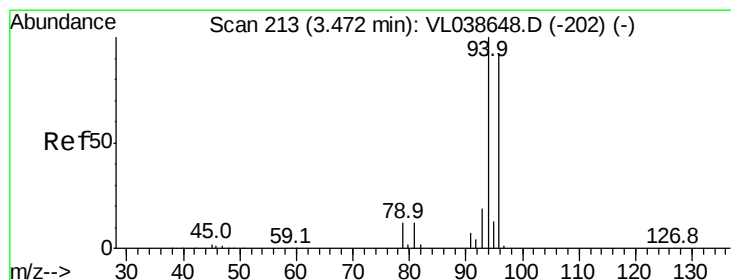
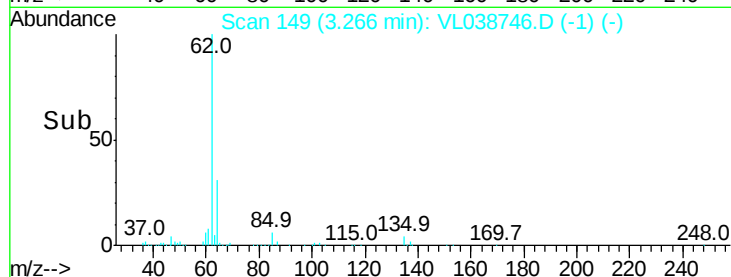
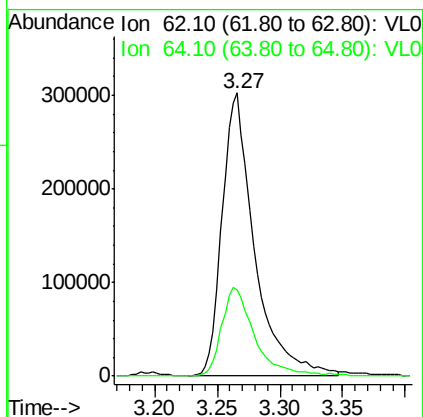
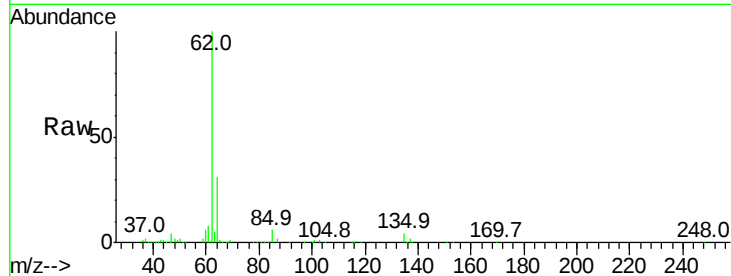
Acq: 24 Mar 2022 11:27

Tgt Ion: 62 Resp: 541891

Ion Ratio Lower Upper

62 100

64 30.6 25.0 37.4



#6

Bromomethane

Concen: 10.83 ppbv

RT: 3.48 min Scan# 216

Delta R.T. 0.01 min

Lab File: VL038746.D

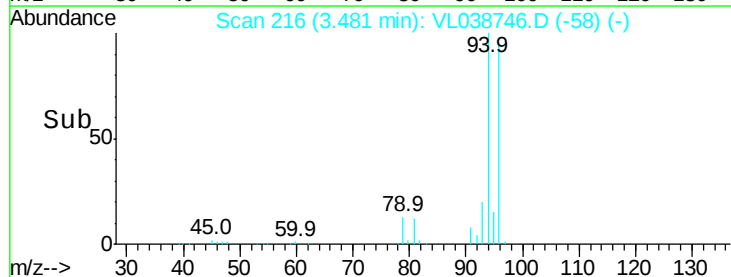
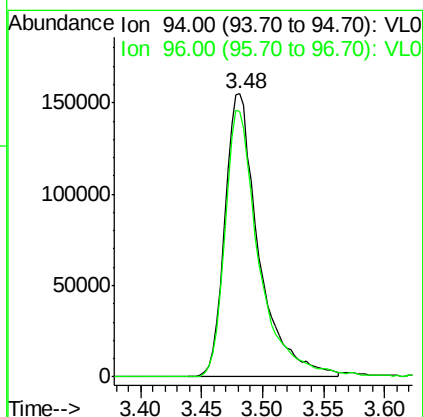
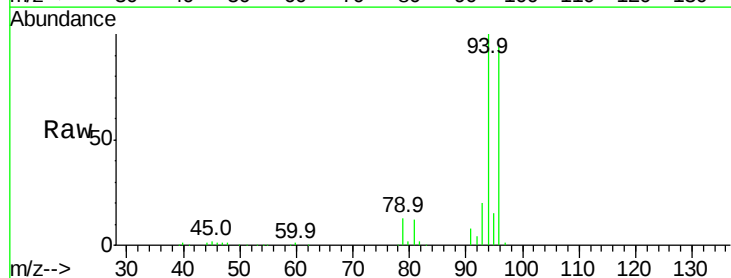
Acq: 24 Mar 2022 11:27

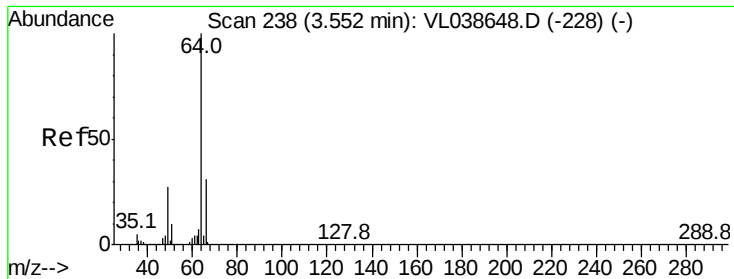
Tgt Ion: 94 Resp: 302854

Ion Ratio Lower Upper

94 100

96 93.9 73.3 109.9





#7

Chloroethane

Concen: 10.46 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

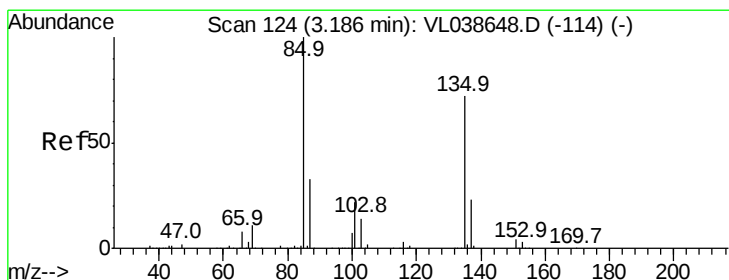
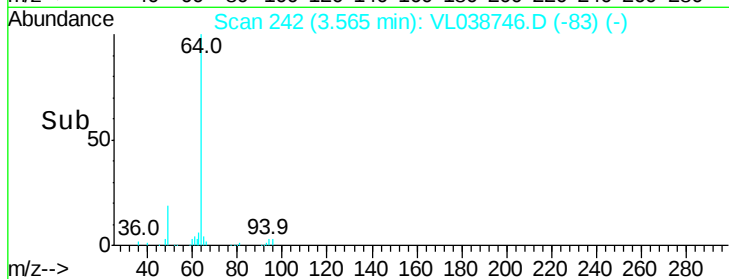
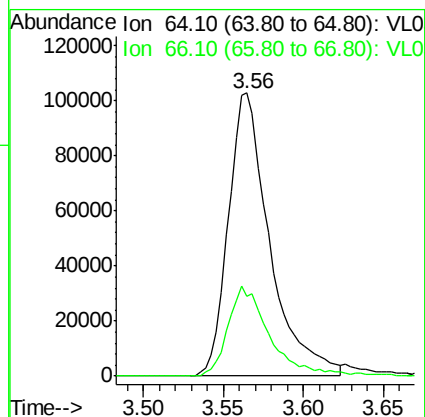
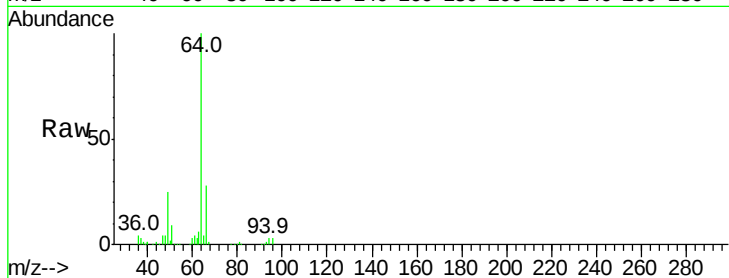
Acq: 24 Mar 2022 11:27

Tgt Ion: 64 Resp: 181667

Ion Ratio Lower Upper

64 100

66 28.1 25.0 37.6



#8

Dichlorotetrafluoroethane

Concen: 10.56 ppbv

RT: 3.20 min Scan# 127

Delta R.T. 0.01 min

Lab File: VL038746.D

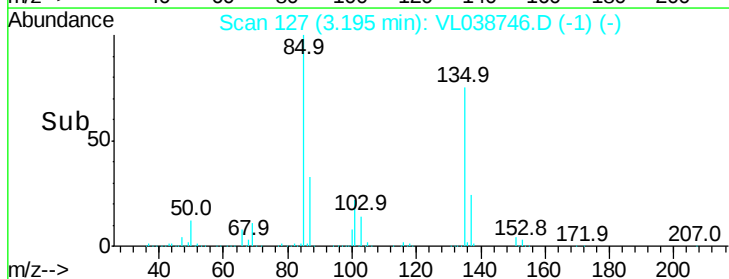
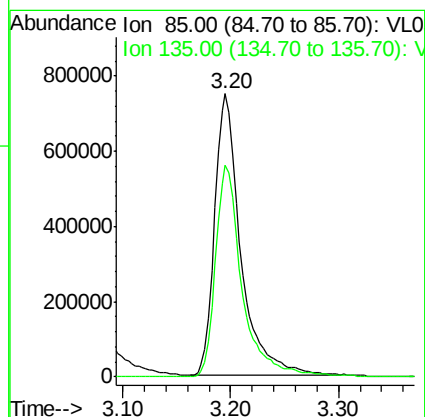
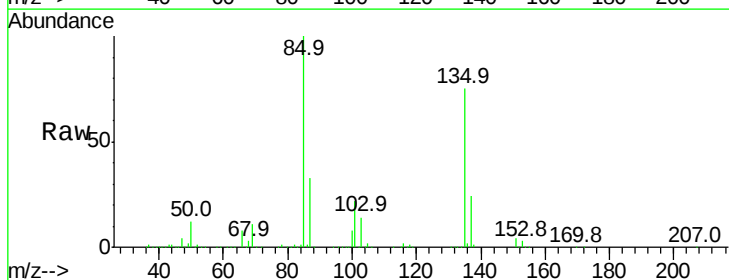
Acq: 24 Mar 2022 11:27

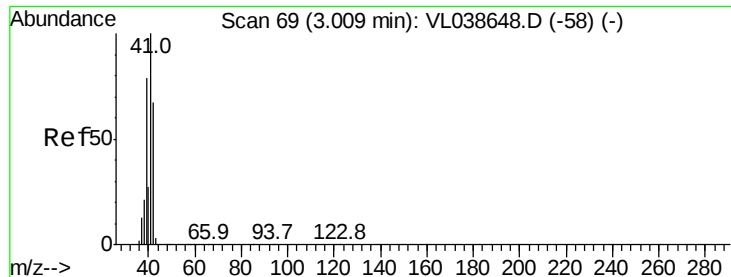
Tgt Ion: 85 Resp: 1261054

Ion Ratio Lower Upper

85 100

135 77.5 57.8 86.6





#9

Propene

Concen: 10.99 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

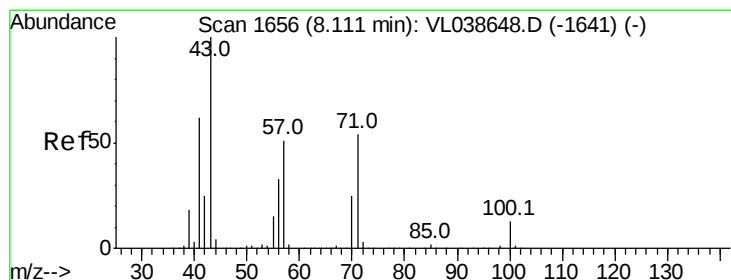
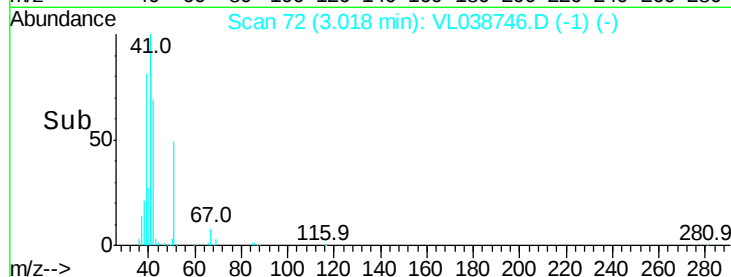
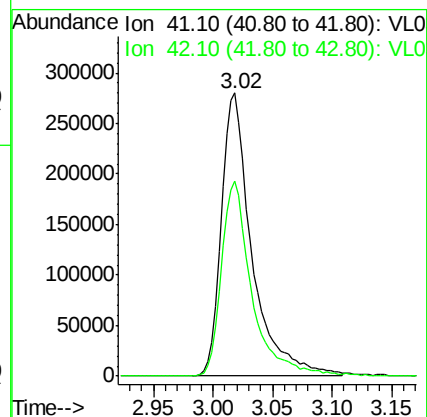
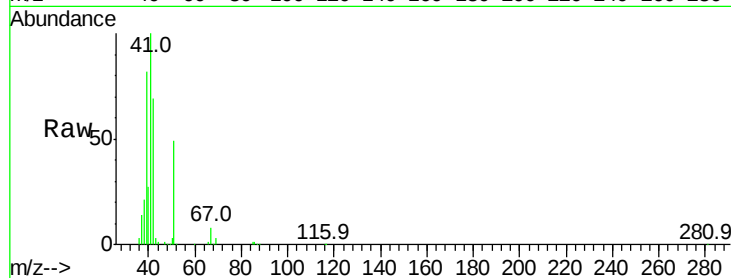
Acq: 24 Mar 2022 11:27

Tgt Ion: 41 Resp: 498934

Ion Ratio Lower Upper

41 100

42 69.0 56.2 84.4



#10

Heptane

Concen: 10.70 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. 0.01 min

Lab File: VL038746.D

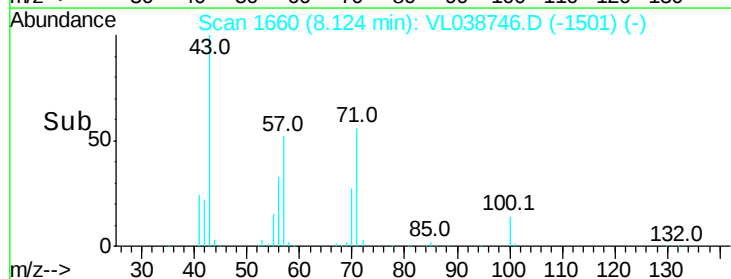
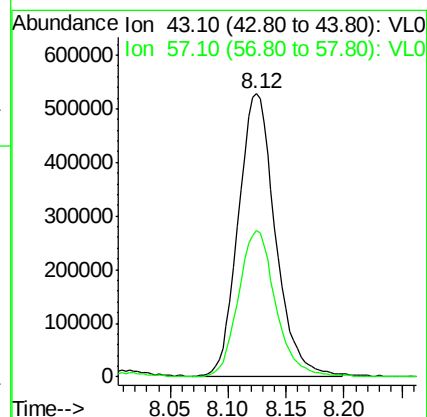
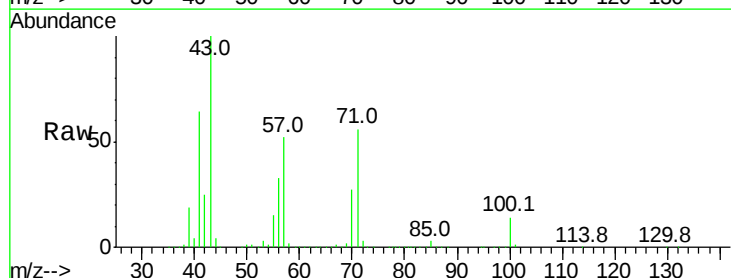
Acq: 24 Mar 2022 11:27

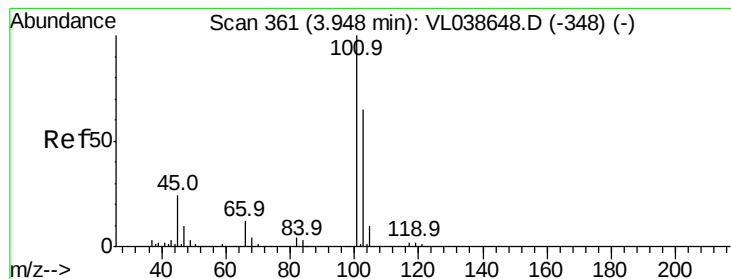
Tgt Ion: 43 Resp: 1160798

Ion Ratio Lower Upper

43 100

57 52.2 41.4 62.2





#11

Trichlorofluoromethane

Concen: 10.33 ppbv

RT: 3.95 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

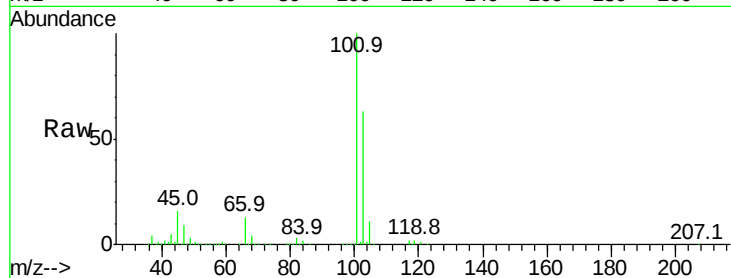
Acq: 24 Mar 2022 11:27

Tgt Ion:101 Resp: 1091236

Ion Ratio Lower Upper

101 100

103 63.0 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

600000

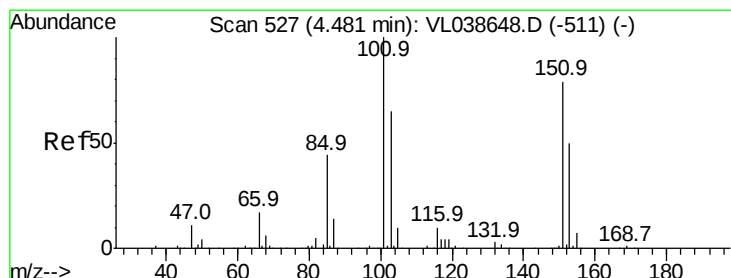
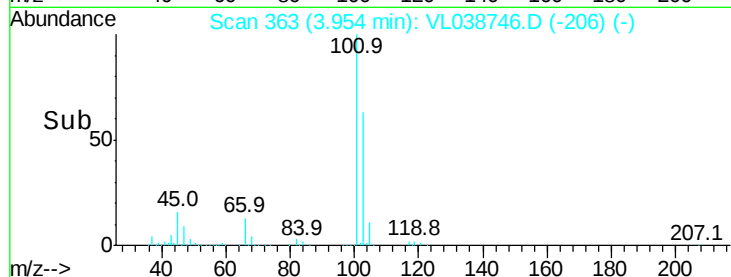
400000

200000

0

3.90 3.95 4.00 4.05

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.56 ppbv

RT: 4.49 min Scan# 530

Delta R.T. 0.01 min

Lab File: VL038746.D

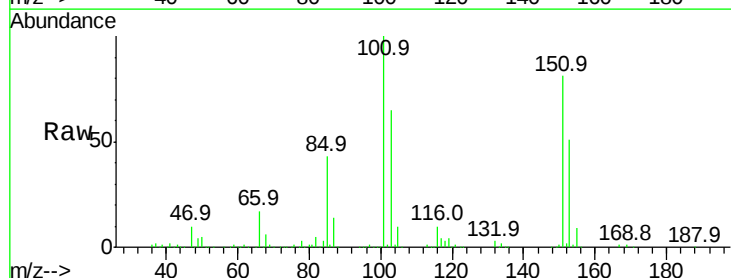
Acq: 24 Mar 2022 11:27

Tgt Ion:101 Resp: 858800

Ion Ratio Lower Upper

101 100

151 81.6 62.9 94.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

400000

300000

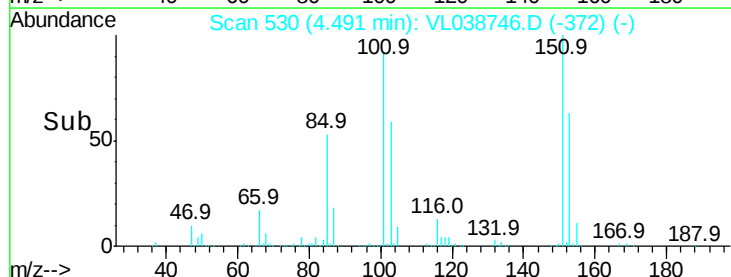
200000

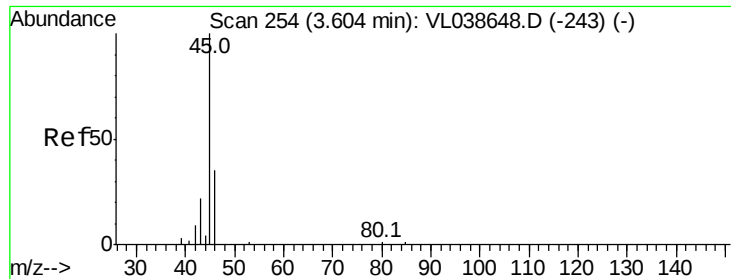
100000

0

4.40 4.45 4.50 4.55 4.60

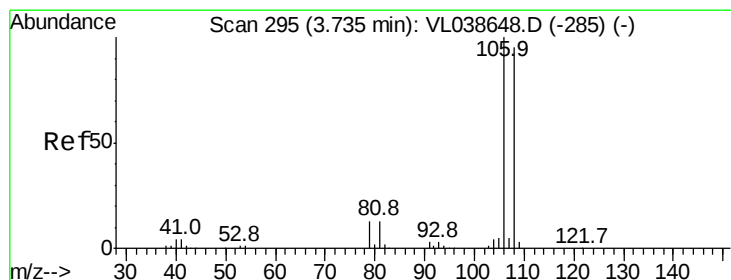
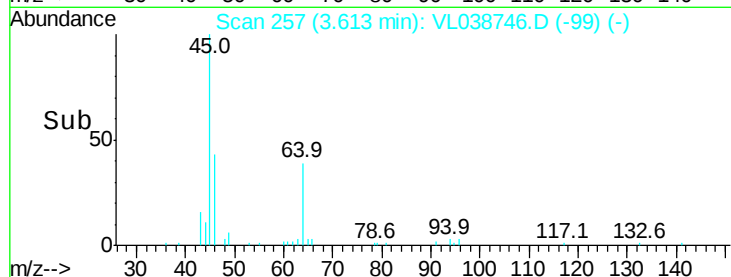
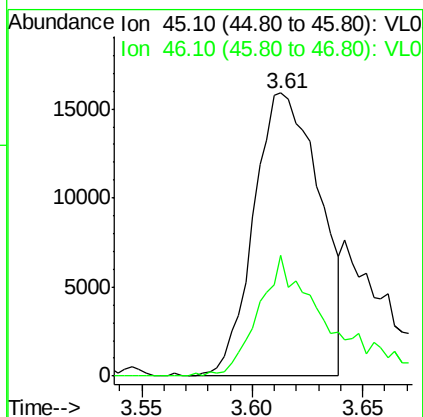
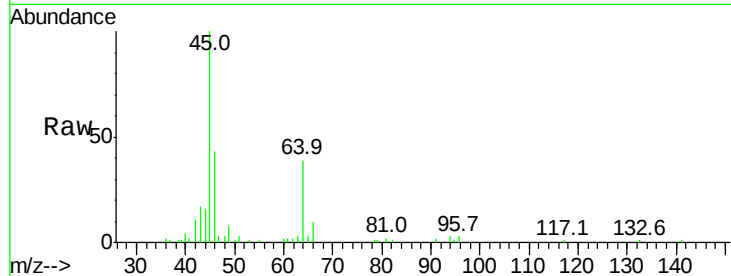
Time-->





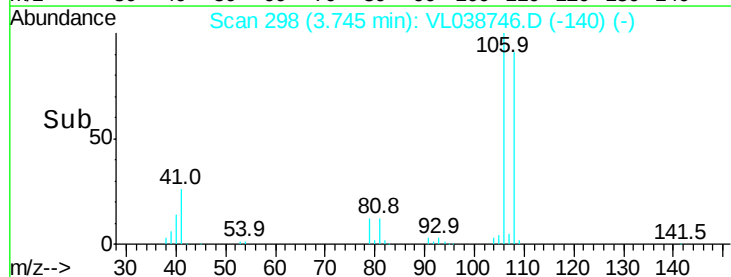
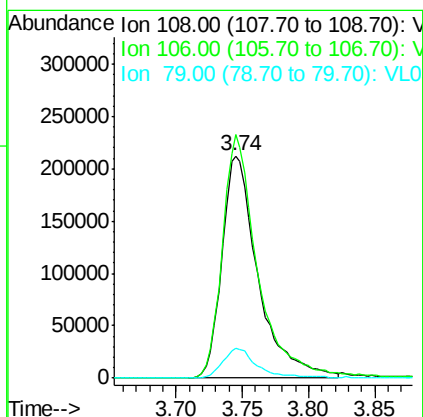
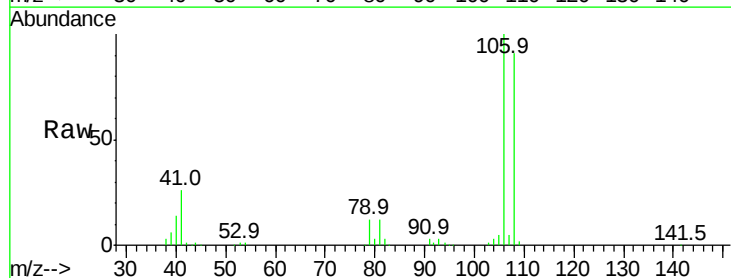
#13
Ethanol
Concen: 6.57 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 11:27

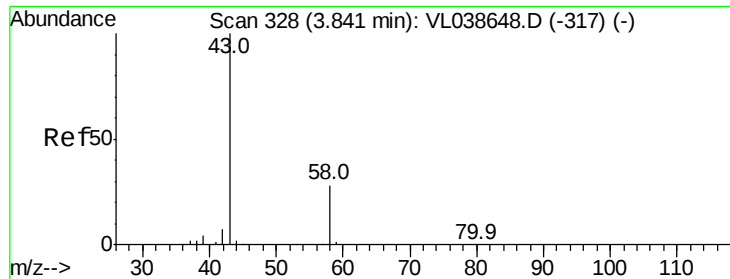
Tgt Ion: 45 Resp: 32911
Ion Ratio Lower Upper
45 100
46 50.4 15.1 60.5



#14
Bromoethene
Concen: 11.14 ppbv
RT: 3.74 min Scan# 298
Delta R.T. 0.01 min
Lab File: VL038746.D
Acq: 24 Mar 2022 11:27

Tgt Ion: 108 Resp: 402613
Ion Ratio Lower Upper
108 100
106 108.3 88.3 132.5
79 13.3 11.2 16.8





#15

Acetone

Concen: 10.23 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

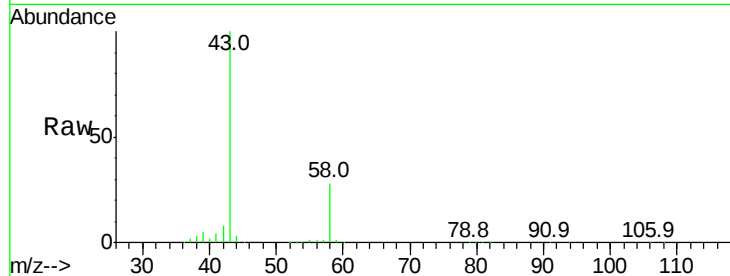
Acq: 24 Mar 2022 11:27

Tgt Ion: 43 Resp: 785812

Ion Ratio Lower Upper

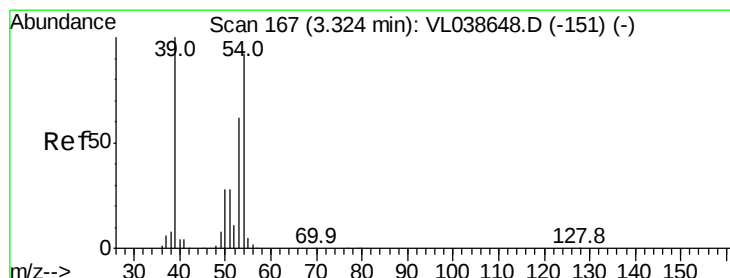
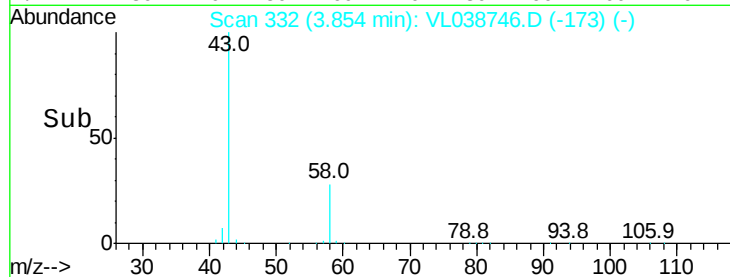
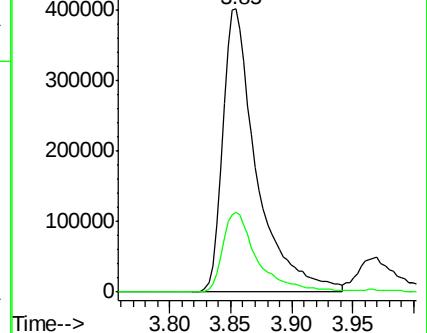
43 100

58 30.4 23.3 34.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.92 ppbv

RT: 3.33 min Scan# 170

Delta R.T. 0.01 min

Lab File: VL038746.D

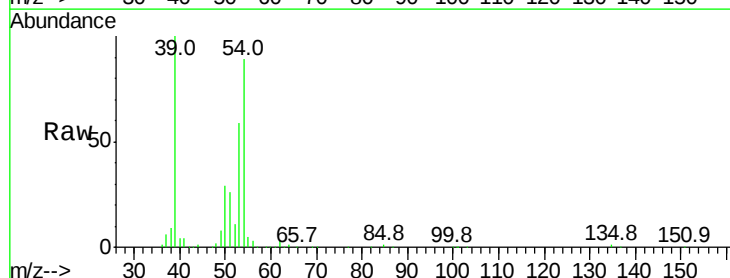
Acq: 24 Mar 2022 11:27

Tgt Ion: 39 Resp: 476173

Ion Ratio Lower Upper

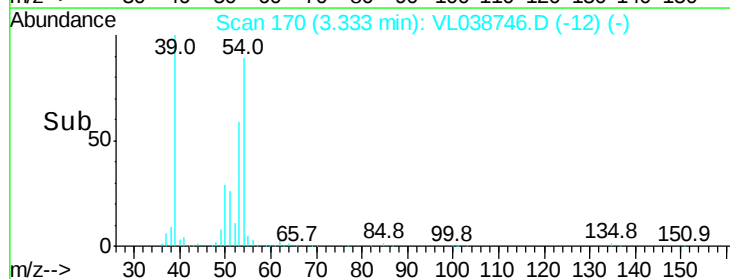
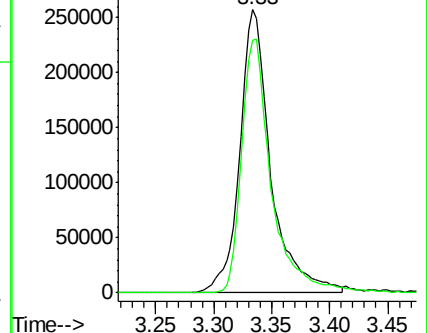
39 100

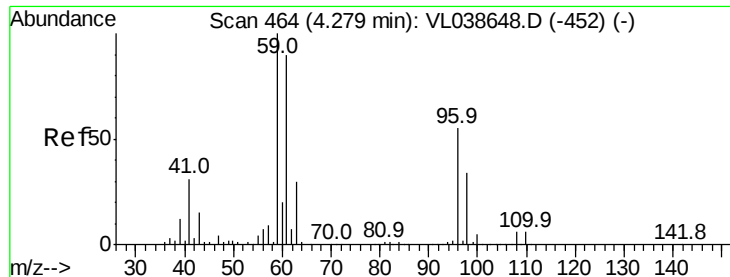
54 86.8 69.1 103.7



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 12.08 ppbv

RT: 4.29 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

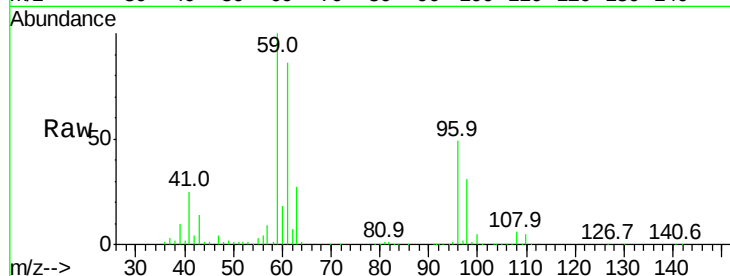
Acq: 24 Mar 2022 11:27

Tgt Ion: 59 Resp: 810278

Ion Ratio Lower Upper

59 100

57 10.2 8.2 12.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.29

400000

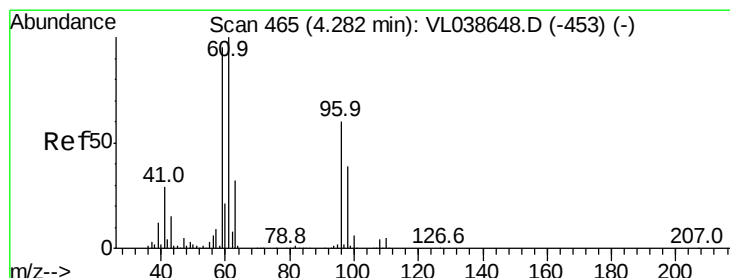
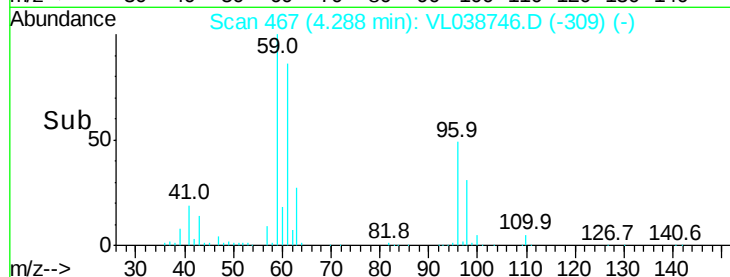
300000

200000

100000

0

Time--> 4.20 4.25 4.30 4.35 4.40



#18

1,1-Dichloroethene

Concen: 10.78 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.01 min

Lab File: VL038746.D

Acq: 24 Mar 2022 11:27

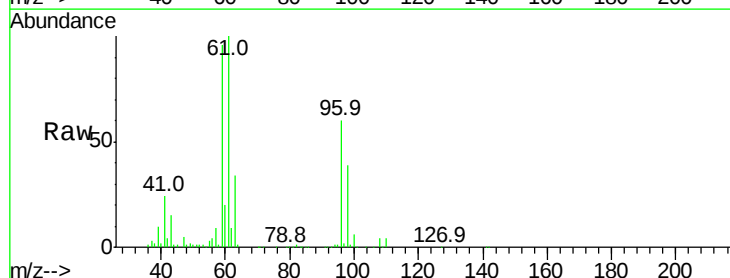
Tgt Ion: 96 Resp: 393883

Ion Ratio Lower Upper

96 100

61 167.5 132.4 198.6

98 65.8 51.6 77.4



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

4.29

400000

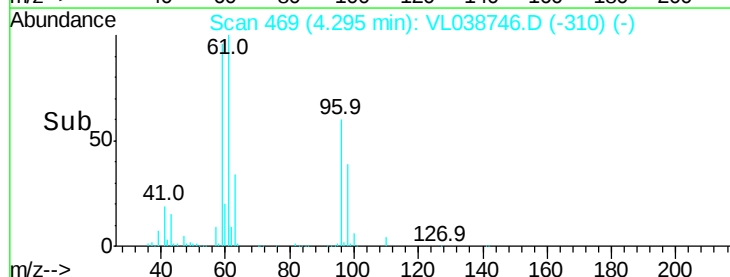
300000

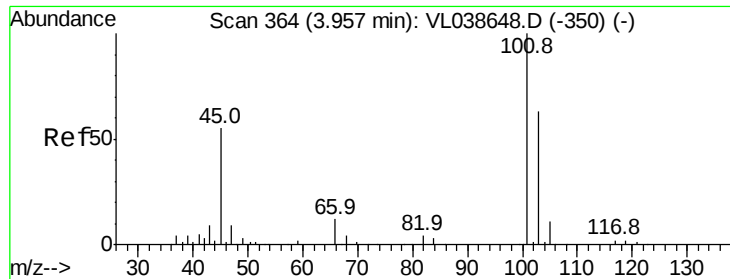
200000

100000

0

Time--> 4.20 4.25 4.30 4.35 4.40





#19

Isopropyl Alcohol

Concen: 10.70 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

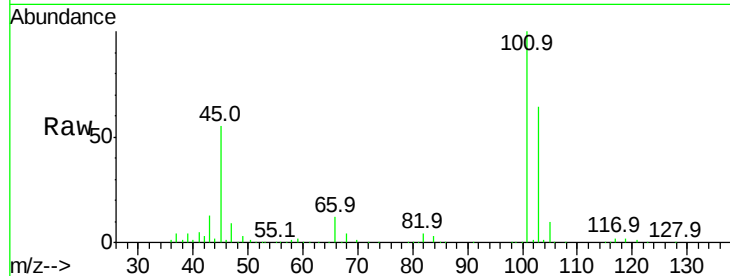
Acq: 24 Mar 2022 11:27

Tgt Ion: 45 Resp: 455730

Ion Ratio Lower Upper

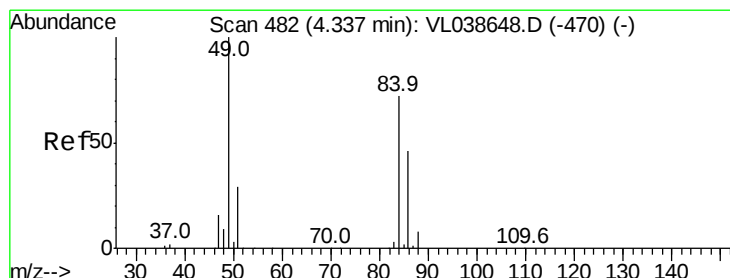
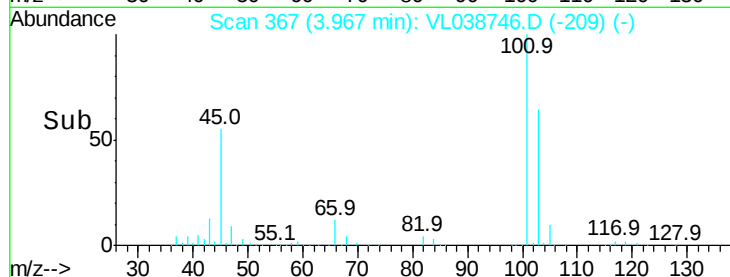
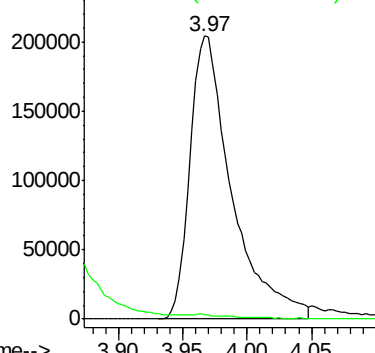
45 100

58 52.5 2.3 3.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 9.88 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.01 min

Lab File: VL038746.D

Acq: 24 Mar 2022 11:27

Tgt Ion: 84 Resp: 319690

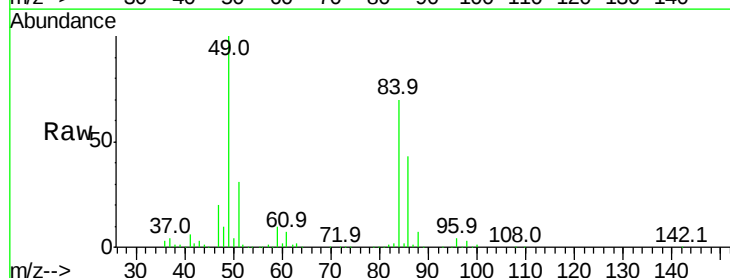
Ion Ratio Lower Upper

84 100

49 142.2 111.2 166.8

51 43.9 32.8 49.2

86 62.1 51.4 77.0

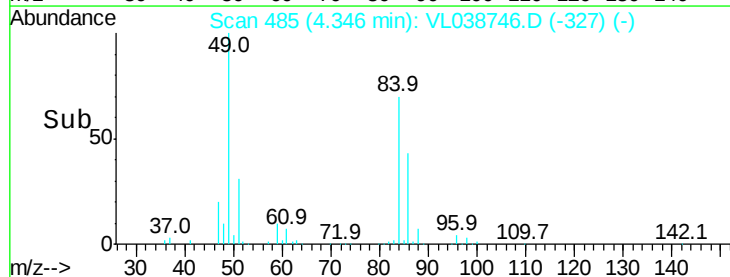
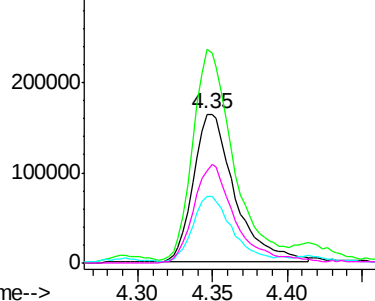


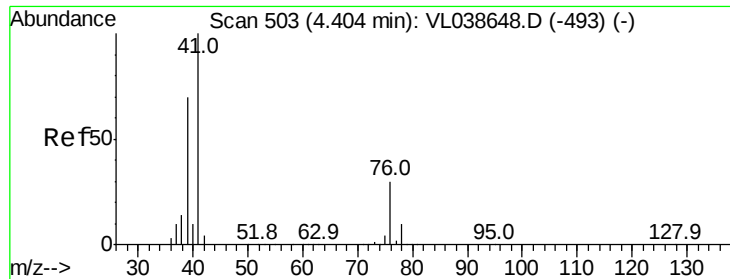
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

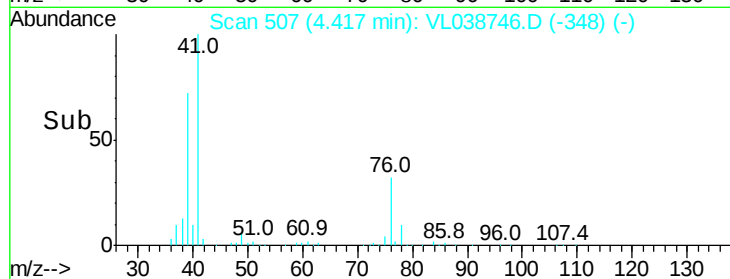
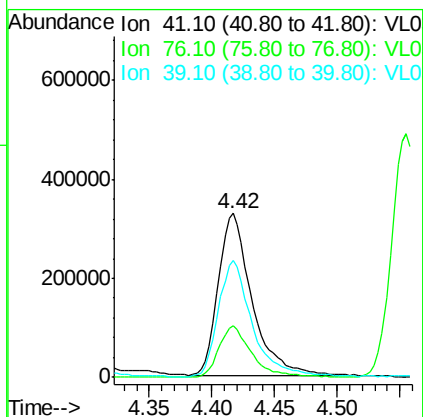
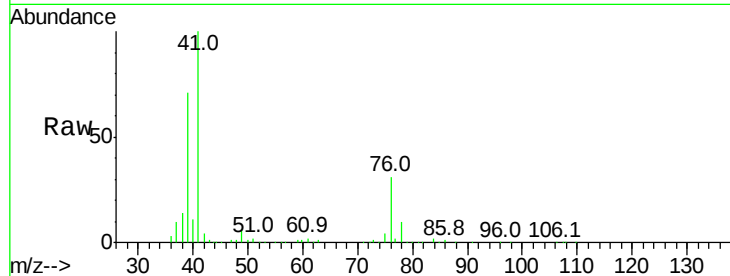
Ion 86.00 (85.70 to 86.70): VL0





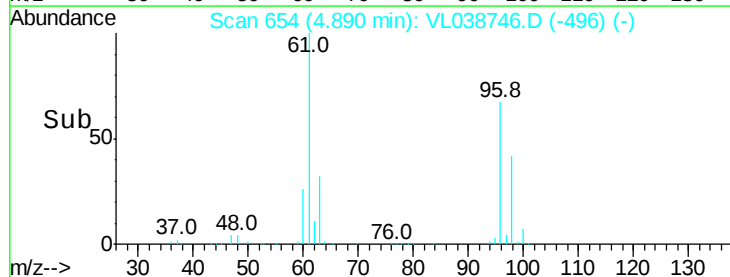
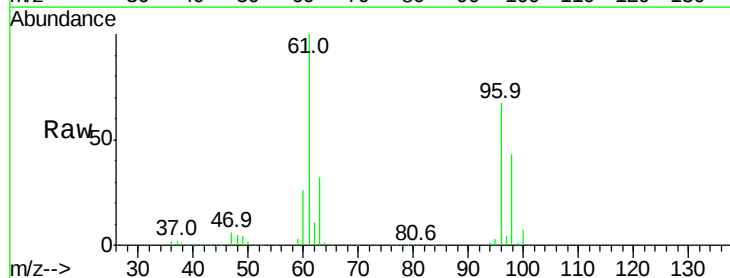
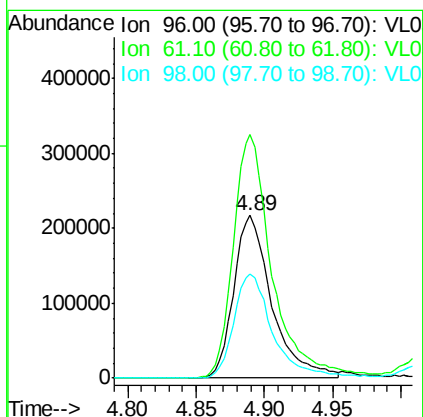
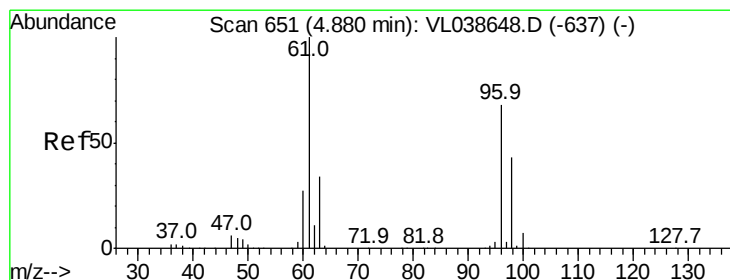
#21
 Allyl Chloride
 Concen: 11.05 ppbv
 RT: 4.42
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 11:27

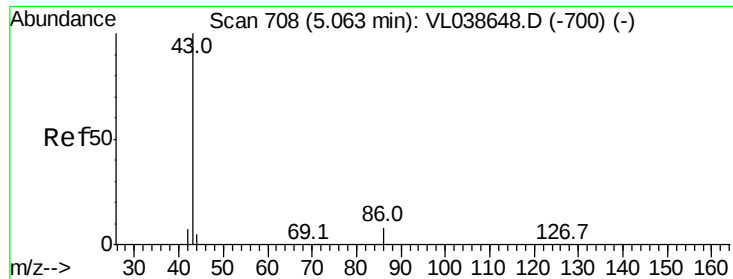
Tgt Ion: 41 Resp: 610796
 Ion Ratio Lower Upper
 41 100
 76 31.4 25.0 37.6
 39 72.5 56.6 85.0



#22
 trans-1,2-Dichloroethene
 Concen: 11.13 ppbv
 RT: 4.89 min Scan# 654
 Delta R.T. 0.01 min
 Lab File: VL038746.D
 Acq: 24 Mar 2022 11:27

Tgt Ion: 96 Resp: 421560
 Ion Ratio Lower Upper
 96 100
 61 149.6 118.3 177.5
 98 63.6 51.3 76.9





#23

Vinyl Acetate

Concen: 11.80 ppbv

RT: 5.08 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 24 Mar 2022 11:27

Tgt Ion: 43 Resp: 877699

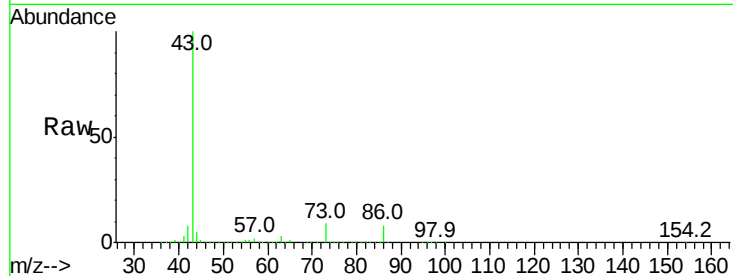
Ion Ratio Lower Upper

43 100

86 7.5 5.6 8.4

42 8.1 6.8 10.2

44 5.0 4.2 6.2

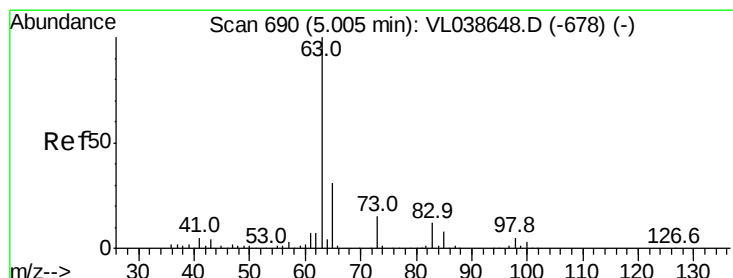
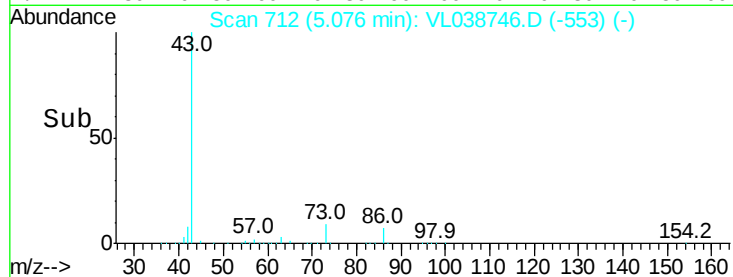
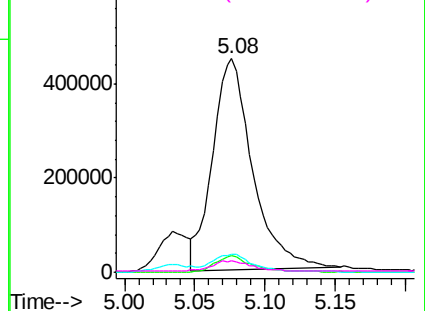


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.66 ppbv

RT: 5.01 min Scan# 693

Delta R.T. 0.01 min

Lab File: VL038746.D

Acq: 24 Mar 2022 11:27

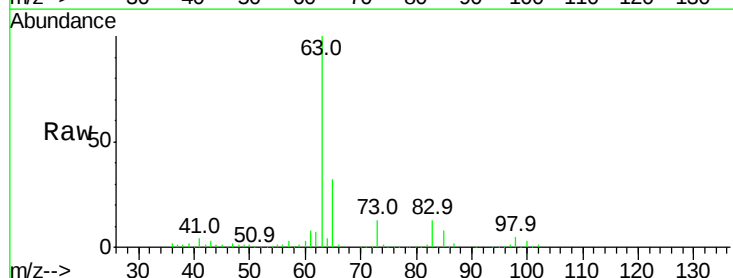
Tgt Ion: 63 Resp: 781088

Ion Ratio Lower Upper

63 100

98 4.8 2.5 7.5

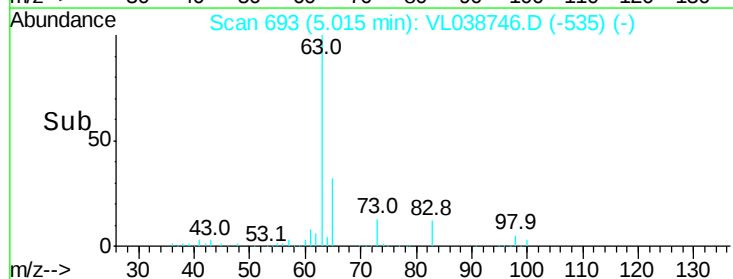
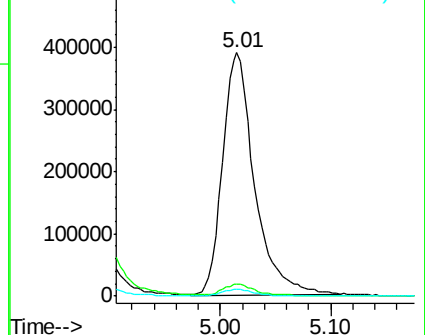
100 3.0 1.4 4.2

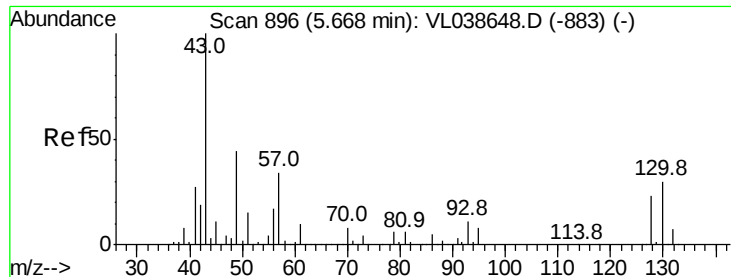


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

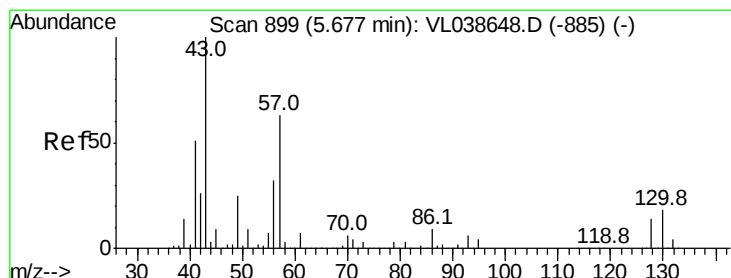
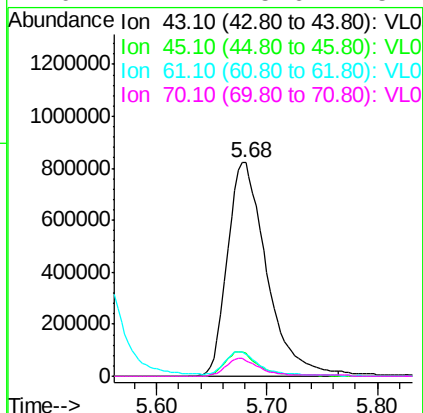
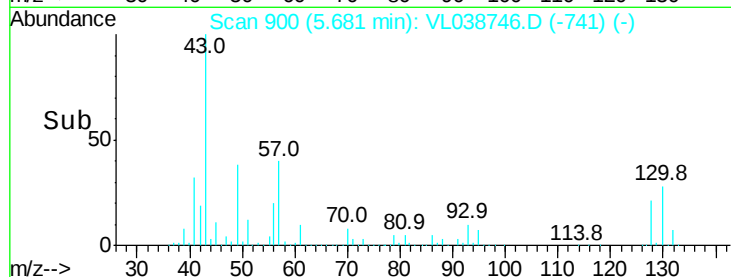
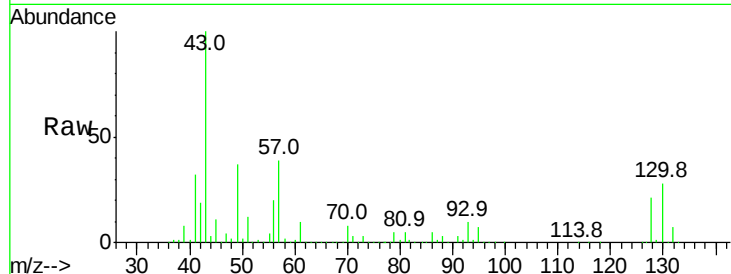




#25
Ethyl Acetate
Concen: 10.42 ppbv
RT: 5.68 Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 24 Mar 2022 11:27

Tgt Ion: 43 Resp: 2013901

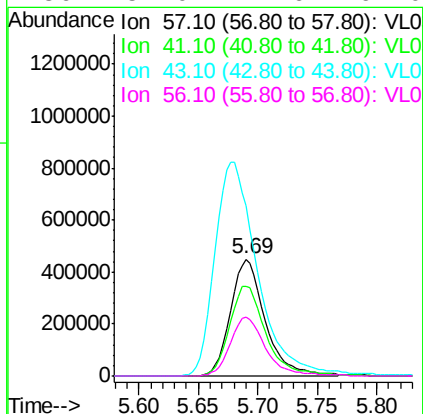
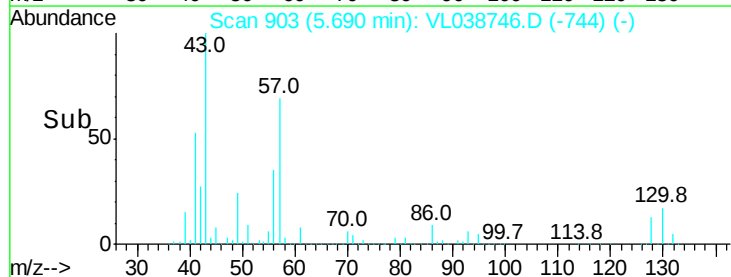
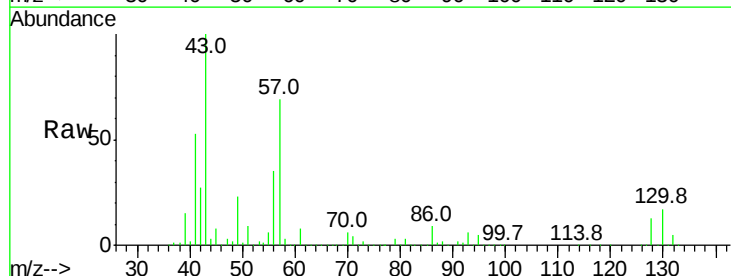
Ion	Ratio	Lower	Upper
43	100		
45	10.5	8.2	12.4
61	10.7	8.3	12.5
70	7.2	5.6	8.4

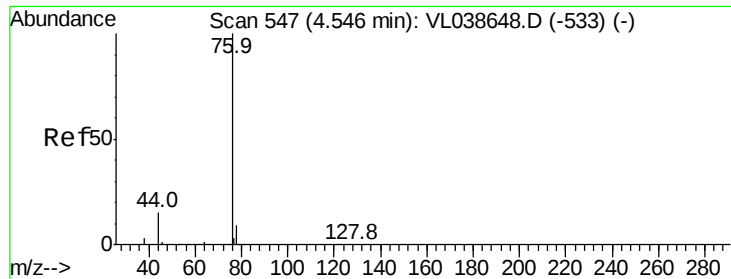


#26
Hexane
Concen: 10.52 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL038746.D
Acq: 24 Mar 2022 11:27

Tgt Ion: 57 Resp: 910224

Ion	Ratio	Lower	Upper
57	100		
41	82.1	67.0	100.4
43	224.9	184.2	276.2
56	52.0	42.6	64.0





#27

Carbon Disulfide

Concen: 11.52 ppbv

RT: 4.56

Instrument: MSVOA_1

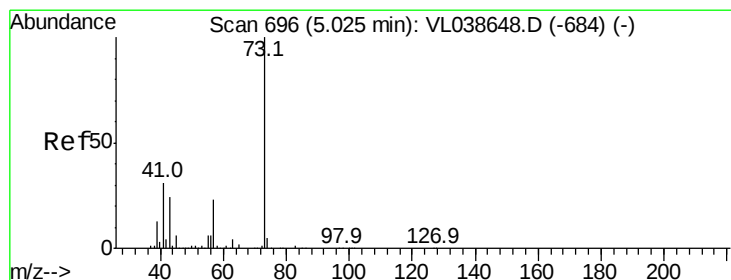
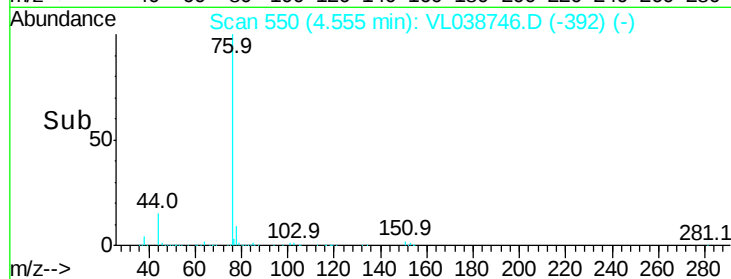
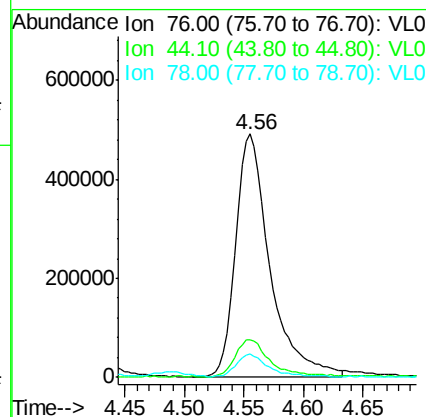
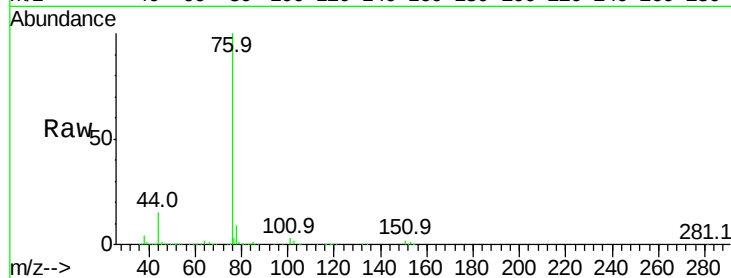
Delta R.T.:

Lab File: ClientSampleId:

Acq: 24 Mar 2022 11:27

Tgt Ion: 76 Resp: 978208

Ion	Ratio	Lower	Upper
76	100		
44	15.6	12.4	18.6
78	9.4	7.8	11.8



#28

Methyl tert-Butyl Ether

Concen: 11.99 ppbv

RT: 5.04 min Scan# 700

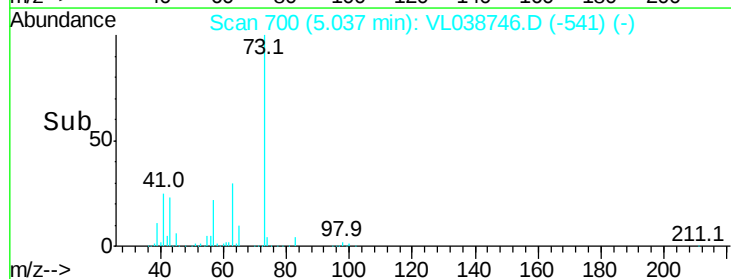
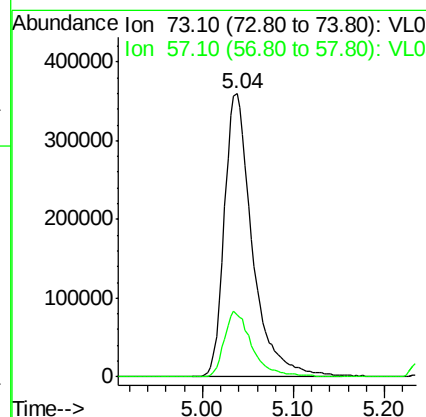
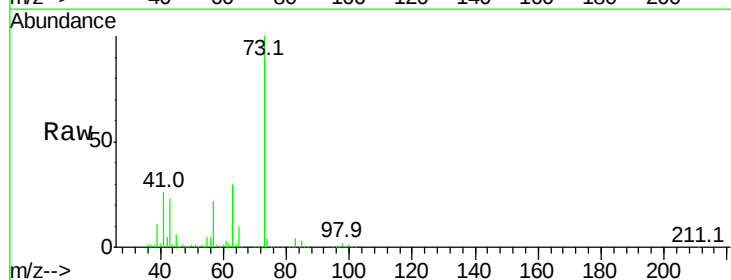
Delta R.T. 0.01 min

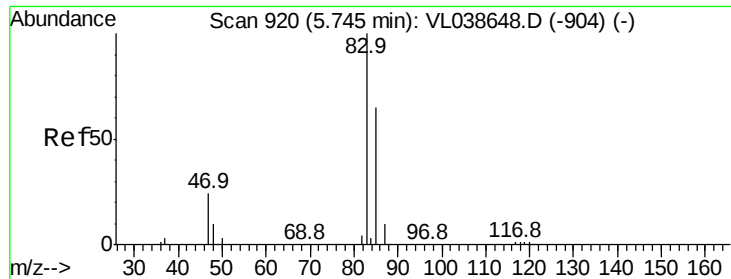
Lab File: VL038746.D

Acq: 24 Mar 2022 11:27

Tgt Ion: 73 Resp: 773102

Ion	Ratio	Lower	Upper
73	100		
57	23.3	19.2	28.8





#29

Chloroform

Concen: 10.27 ppbv

RT: 5.75 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

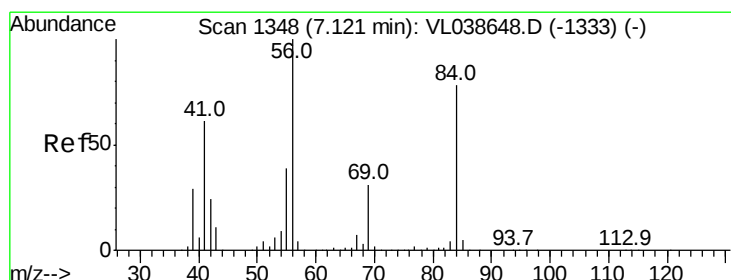
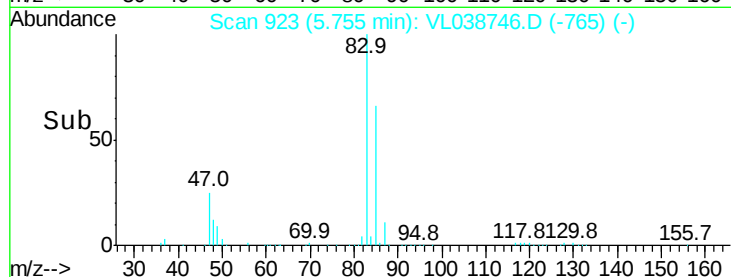
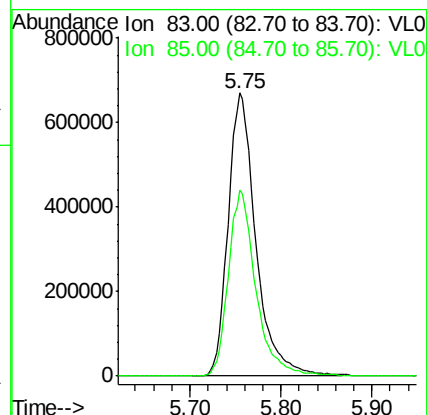
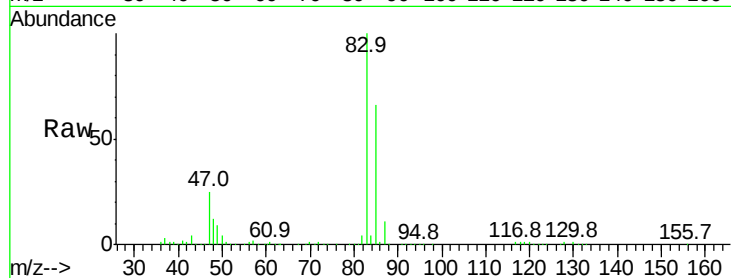
Acq: 24 Mar 2022 11:27

Tgt Ion: 83 Resp: 1423753

Ion Ratio Lower Upper

83 100

85 65.4 51.7 77.5



#30

Cyclohexane

Concen: 10.65 ppbv

RT: 7.13 min Scan# 1352

Delta R.T. 0.01 min

Lab File: VL038746.D

Acq: 24 Mar 2022 11:27

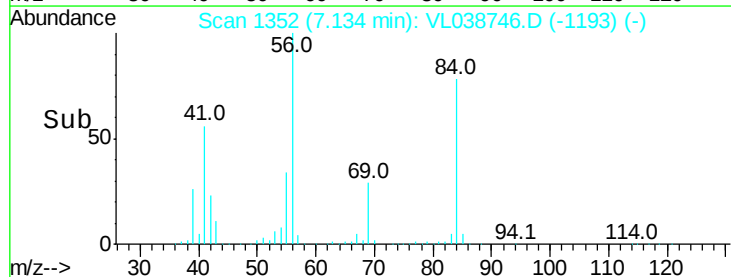
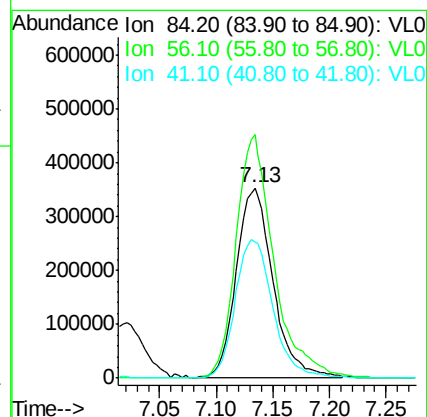
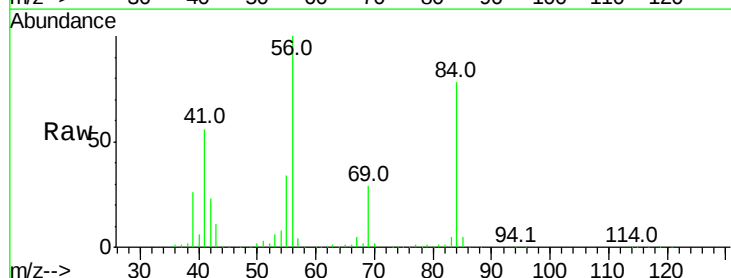
Tgt Ion: 84 Resp: 801813

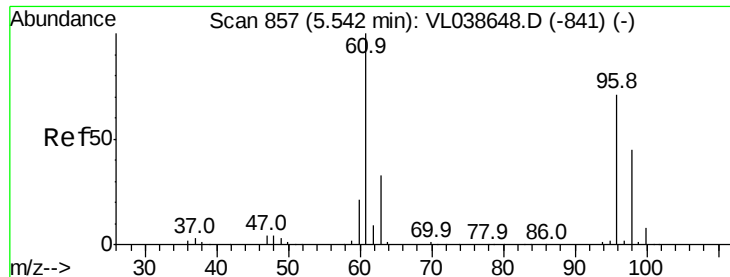
Ion Ratio Lower Upper

84 100

56 131.6 108.2 162.4

41 74.9 61.8 92.6





#31

cis-1,2-Dichloroethene

Concen: 10.84 ppbv

RT: 5.55 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 11:27

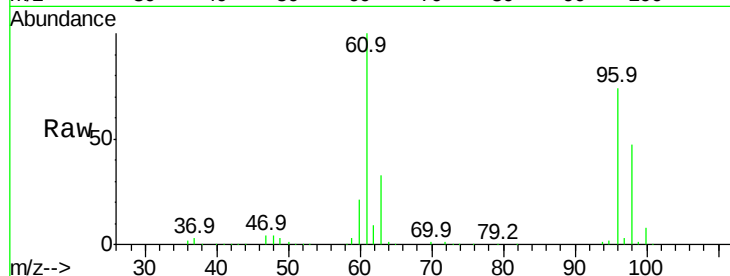
Tgt Ion: 61 Resp: 882077

Ion Ratio Lower Upper

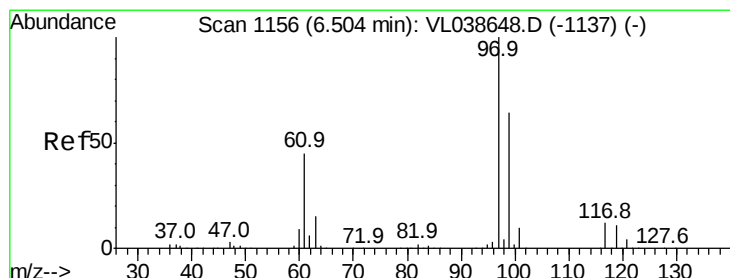
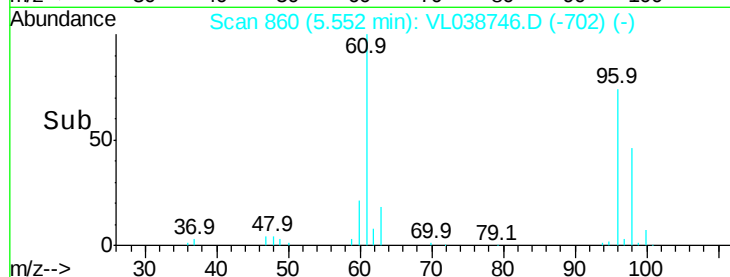
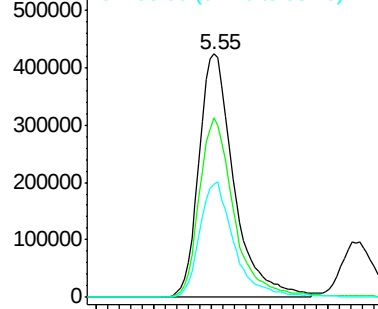
61 100

96 73.7 56.6 84.8

98 46.7 36.3 54.5



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 10.67 ppbv

RT: 6.51 min Scan# 1159

Delta R.T. 0.01 min

Lab File: VL038746.D

Acq: 24 Mar 2022 11:27

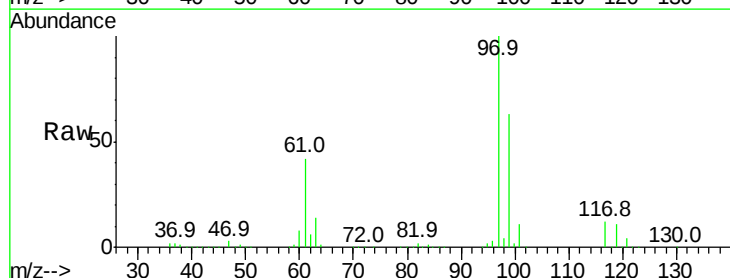
Tgt Ion: 97 Resp: 1427362

Ion Ratio Lower Upper

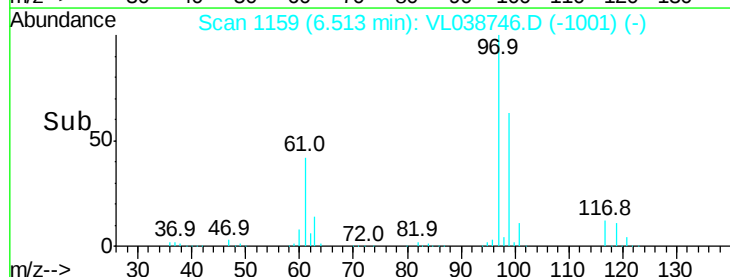
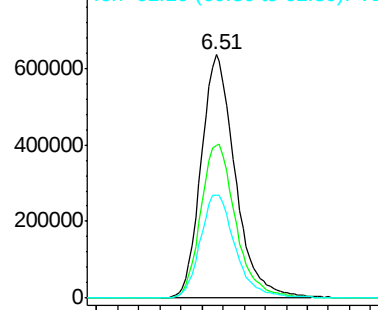
97 100

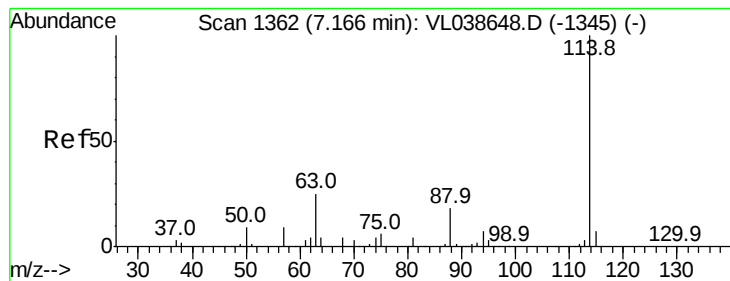
99 65.0 51.8 77.8

61 43.9 36.7 55.1



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 11:27

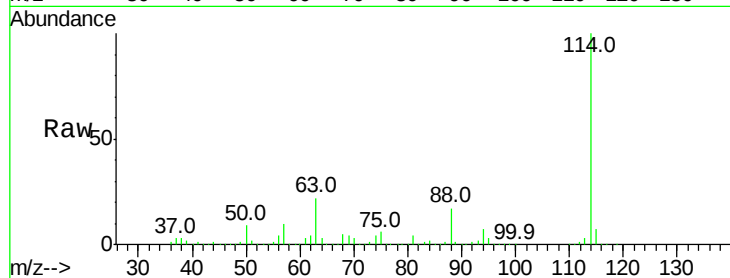
Tgt Ion:114 Resp: 2507613

Ion Ratio Lower Upper

114 100

63 23.1 19.4 29.0

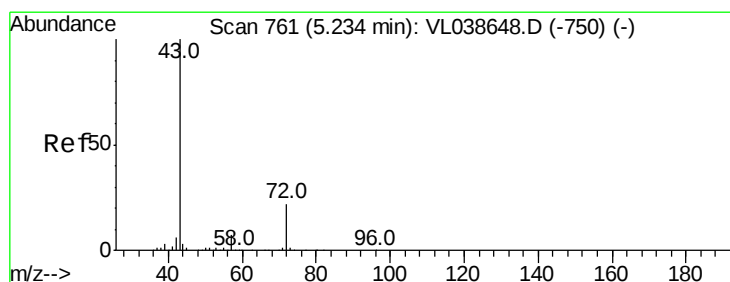
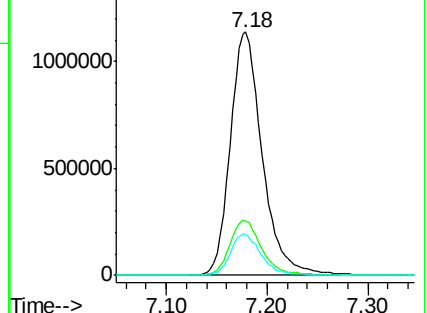
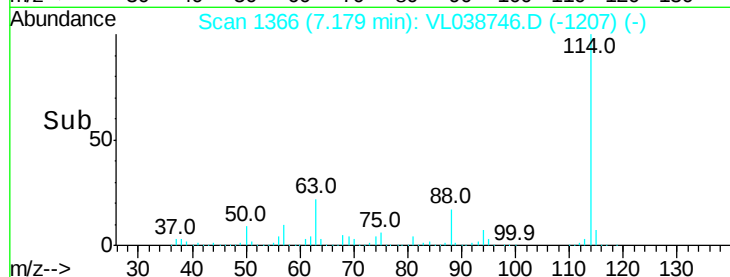
88 16.6 13.9 20.9



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: 9.02 ppbv

RT: 5.24 min Scan# 764

Delta R.T. 0.01 min

Lab File: VL038746.D

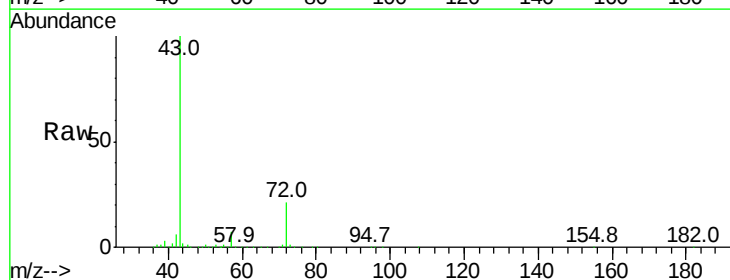
Acq: 24 Mar 2022 11:27

Tgt Ion: 43 Resp: 895711

Ion Ratio Lower Upper

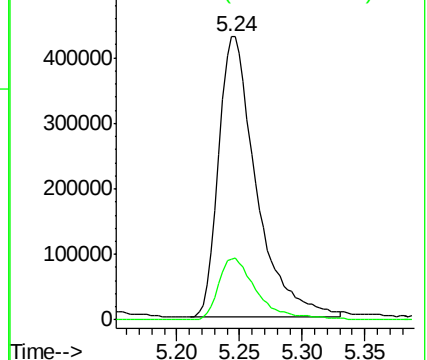
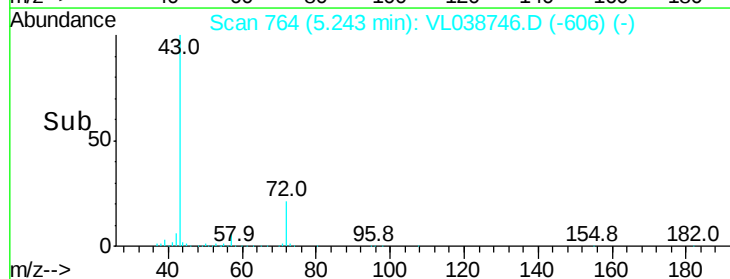
43 100

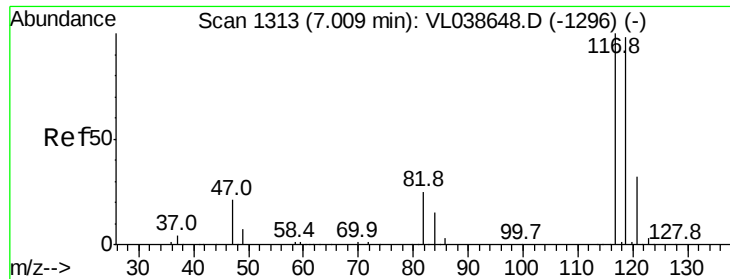
72 23.3 17.8 26.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

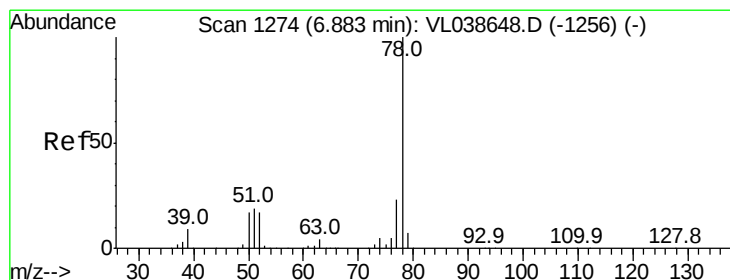
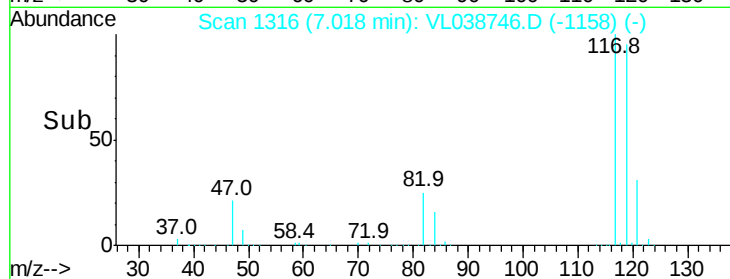
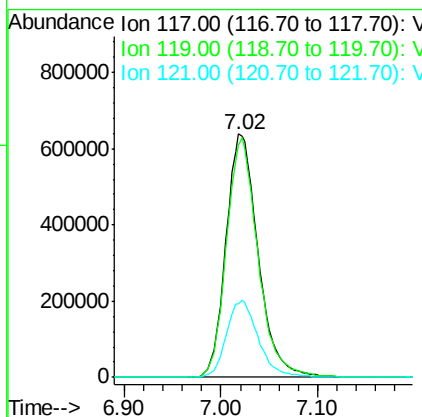
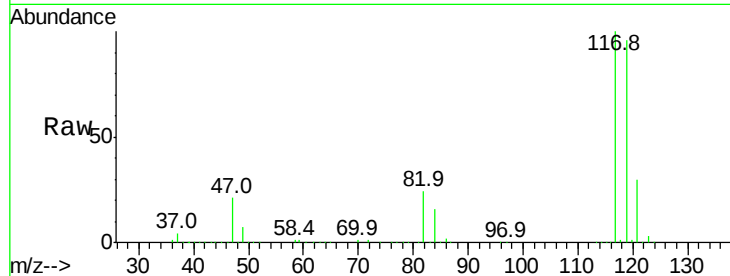
Ion 72.10 (71.80 to 72.80): VL0





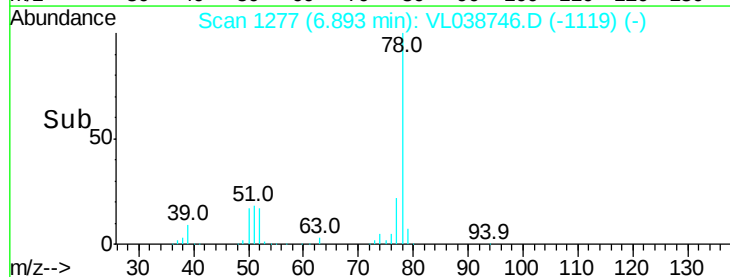
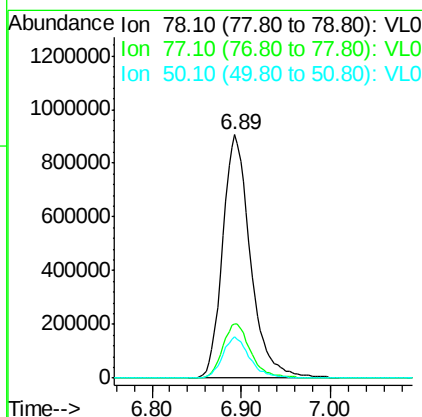
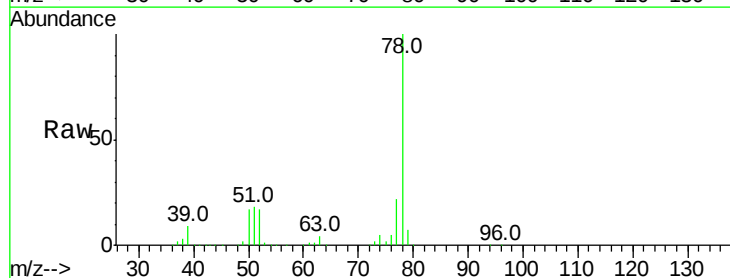
#35
 Carbon Tetrachloride
 Concen: 10.13 ppbv
 RT: 7.02
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 24 Mar 2022 11:27

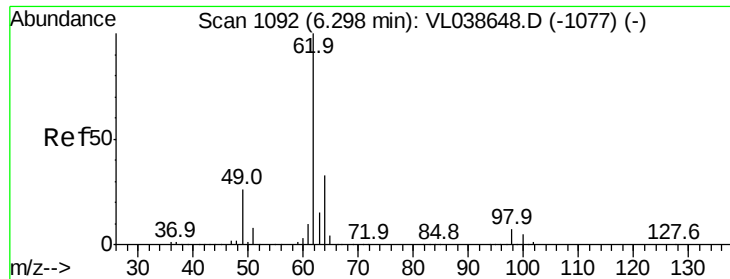
Tgt Ion: 117 Resp: 1473807
 Ion Ratio Lower Upper
 117 100
 119 95.5 78.1 117.1
 121 30.3 25.8 38.6



#36
 Benzene
 Concen: 10.12 ppbv
 RT: 6.89 min Scan# 1277
 Delta R.T.: 0.01 min
 Lab File: VL038746.D
 Acq: 24 Mar 2022 11:27

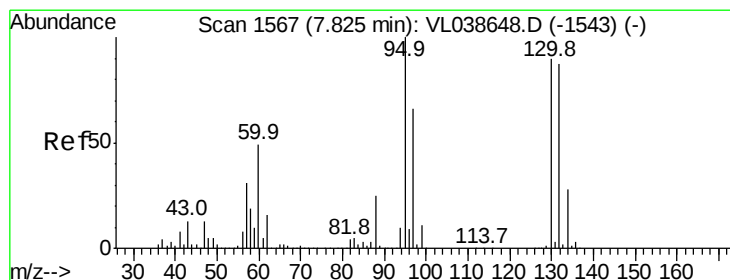
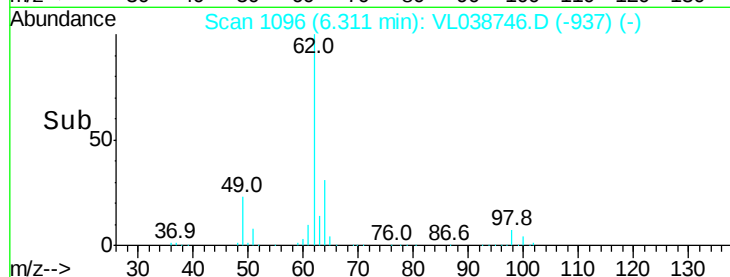
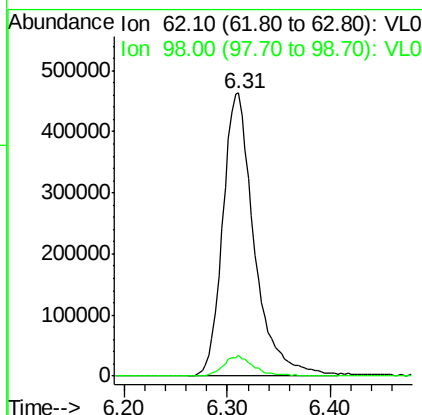
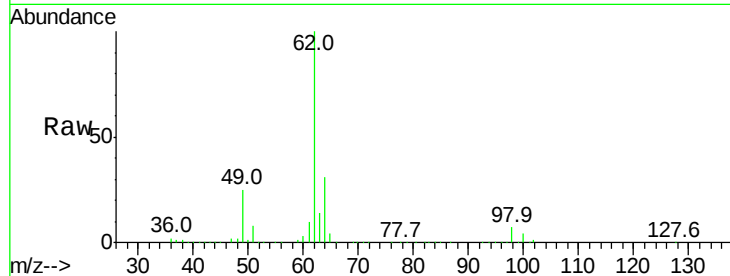
Tgt Ion: 78 Resp: 1959203
 Ion Ratio Lower Upper
 78 100
 77 22.1 18.1 27.1
 50 16.9 13.6 20.4





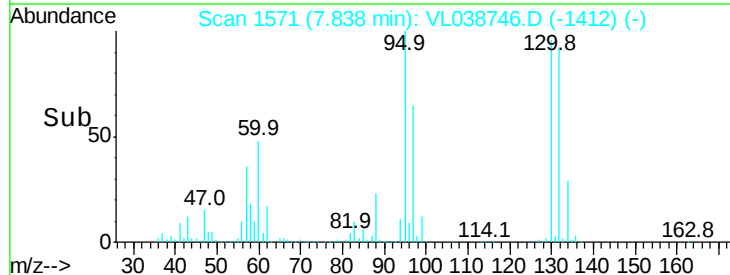
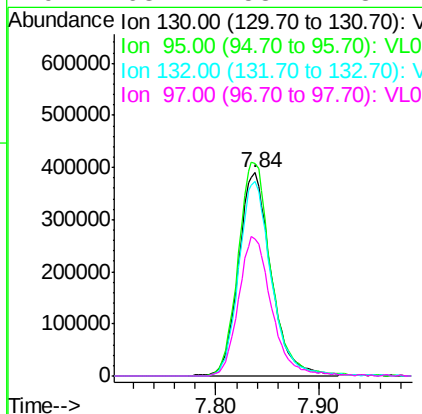
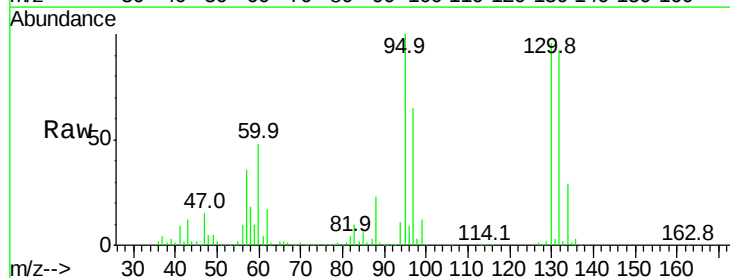
#37
 1,2-Dichloroethane
 Concen: 10.02 ppbv
 RT: 6.31
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 11:27

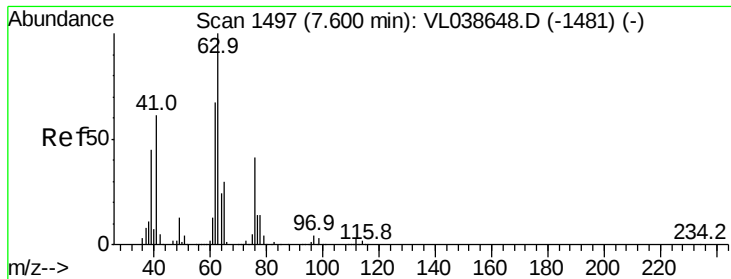
Tgt Ion: 62 Resp: 986107
 Ion Ratio Lower Upper
 62 100
 98 7.3 5.6 8.4



#38
 Trichloroethene
 Concen: 10.52 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T.: 0.01 min
 Lab File: VL038746.D
 Acq: 24 Mar 2022 11:27

Tgt Ion: 130 Resp: 853236
 Ion Ratio Lower Upper
 130 100
 95 105.4 88.9 133.3
 132 96.5 77.4 116.0
 97 68.2 58.2 87.4





#39

1,2-Dichloropropane

Concen: 9.83 ppbv

RT: 7.61

Instrument: MSVOA_1

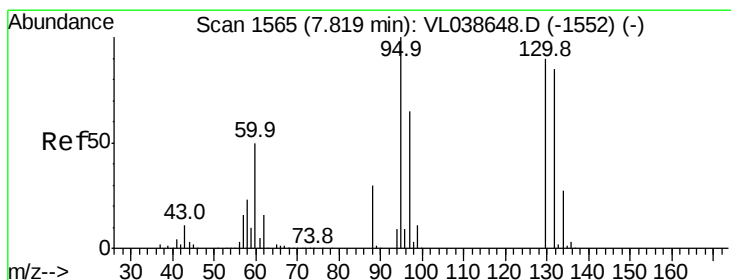
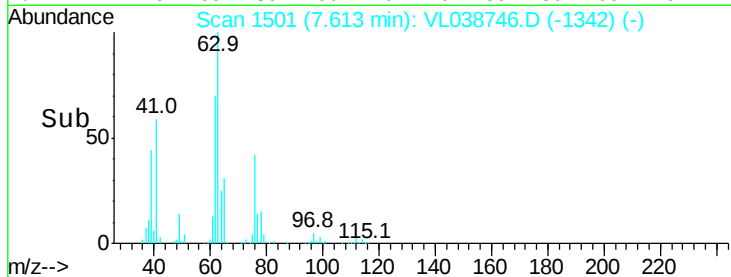
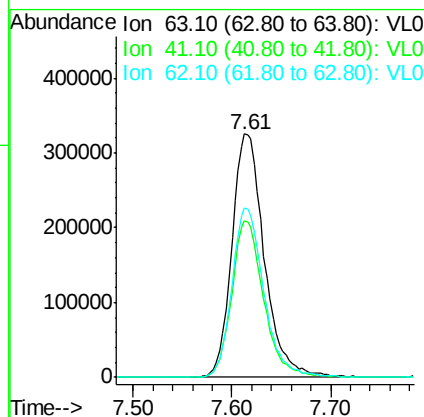
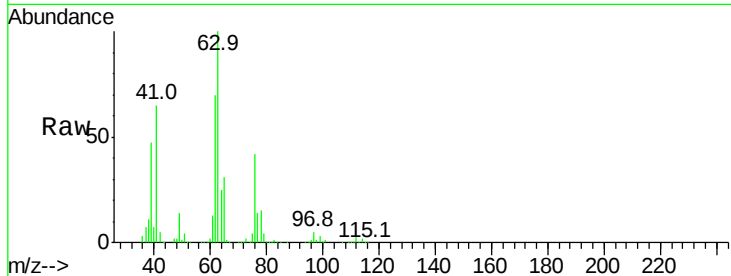
Delta R.T.

Lab File: ClientSampleId :

Acq: 24 Mar 2022 11:27

Tgt Ion: 63 Resp: 743533

Ion	Ratio	Lower	Upper
63	100		
41	64.5	49.0	73.6
62	69.7	53.9	80.9



#40

1,4-Dioxane

Concen: 9.78 ppbv

RT: 7.83 min Scan# 1569

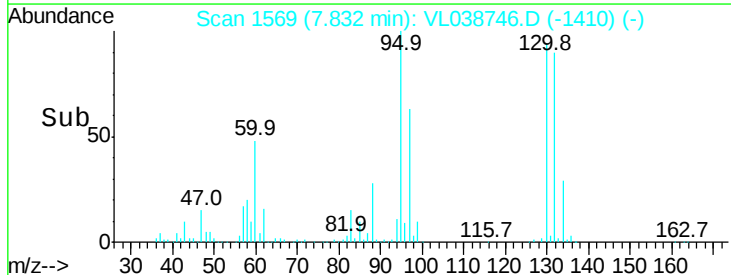
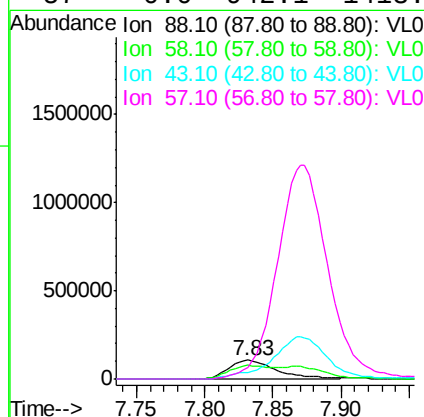
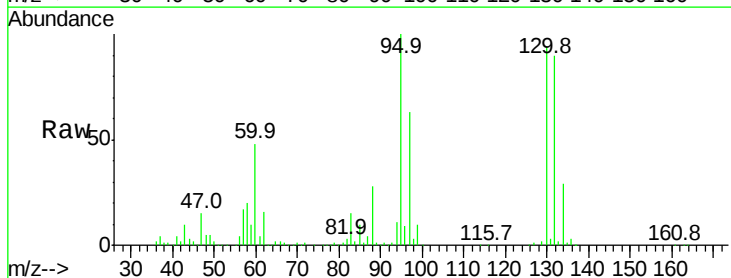
Delta R.T. 0.01 min

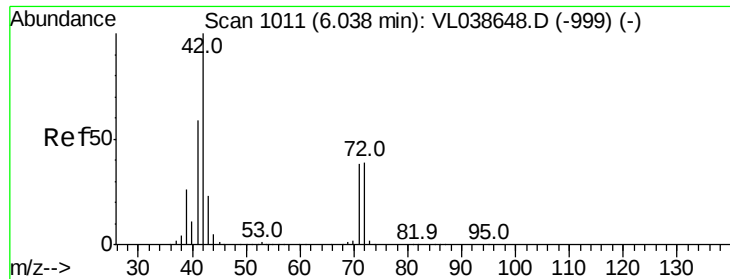
Lab File: VL038746.D

Acq: 24 Mar 2022 11:27

Tgt Ion: 88 Resp: 256856

Ion	Ratio	Lower	Upper
88	100		
58	130.9	105.6	158.4
43	0.0	201.9	302.9#
57	0.0	942.1	1413.1#





#41

Tetrahydrofuran

Concen: 10.20 ppbv

RT: 6.05 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 11:27

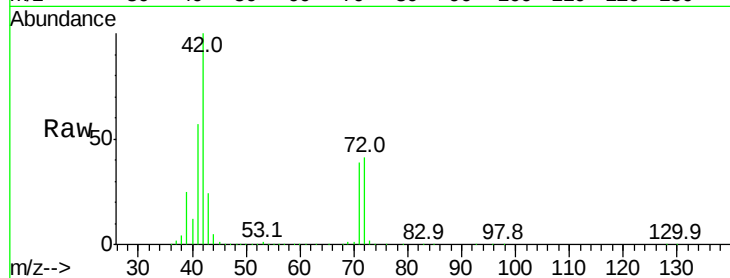
Tgt Ion: 42 Resp: 753316

Ion Ratio Lower Upper

42 100

72 41.9 32.5 48.7

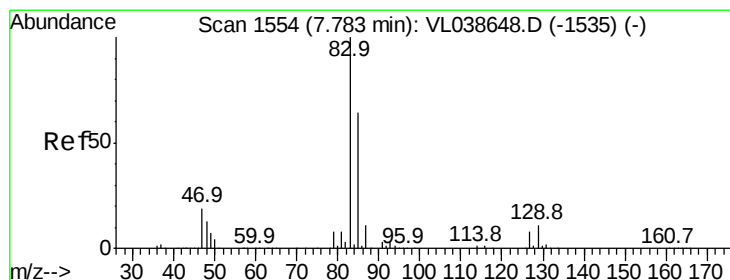
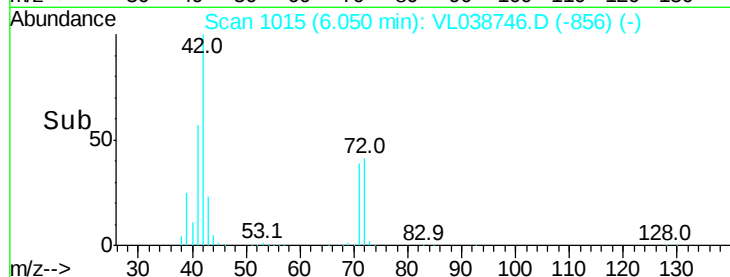
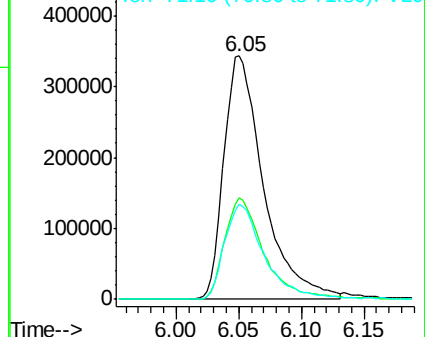
71 39.9 31.4 47.2



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: 10.26 ppbv

RT: 7.79 min Scan# 1557

Delta R.T. 0.01 min

Lab File: VL038746.D

Acq: 24 Mar 2022 11:27

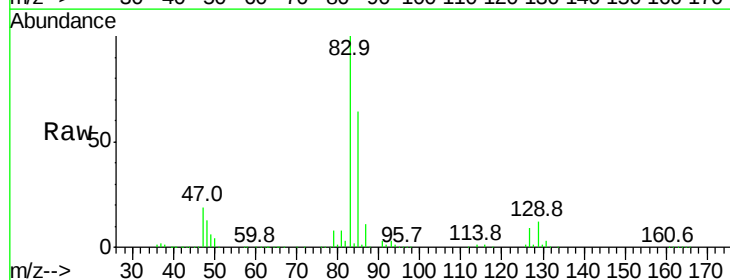
Tgt Ion: 83 Resp: 1513946

Ion Ratio Lower Upper

83 100

85 64.5 51.1 76.7

127 8.8 6.5 9.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

