

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121421\
 Data File : VL038165.D
 Acq On : 14 Dec 2021 14:08
 Operator : SY/AP
 Sample : VL1214ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 15 04:56:20 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1073446	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.14	114	2887558	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.04	117	3259503	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.37	95	2072992	8.82	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	88.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1627373	9.178	ppbv 100
3) Chlorodifluoromethane	2.97	51	1822346	8.084	ppbv 98
4) Chloromethane	3.12	50	619915	8.078	ppbv 99
5) Vinyl Chloride	3.24	62	620416	8.241	ppbv 97
6) Bromomethane	3.46	94	341984	8.480	ppbv 95
7) Chloroethane	3.54	64	219923	8.231	ppbv 89
8) Dichlorotetrafluoroethane	3.17	85	1506241	8.539	ppbv 94
9) Propene	2.99	41	608822	7.333	ppbv 97
10) Heptane	8.09	43	1577041	7.686	ppbv 98
11) Trichlorofluoromethane	3.93	101	1505475	8.927	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1031232	8.645	ppbv 99
13) Ethanol	3.58	45	25500	3.178	ppbv # 32
14) Bromoethene	3.72	108	472692	8.849	ppbv 97
15) Acetone	3.83	43	785008	8.435	ppbv 99
16) 1,3-Butadiene	3.31	39	580217	7.991	ppbv 99
17) tert-Butyl alcohol	4.26	59	937686	8.306	ppbv 100
18) 1,1-Dichloroethene	4.27	96	468584	8.563	ppbv 99
19) Isopropyl Alcohol	3.94	45	534650	7.951	ppbv 100
20) Methylene Chloride	4.32	84	406260	7.793	ppbv 99
21) Allyl Chloride	4.39	41	736051	8.544	ppbv 99
22) trans-1,2-Dichloroethene	4.86	96	509581	9.194	ppbv 95
23) Vinyl Acetate	5.04	43	1180584	8.763	ppbv 98
24) 1,1-Dichloroethane	4.98	63	971276	8.657	ppbv 99
25) Ethyl Acetate	5.65	43	2439685	7.887	ppbv 99
26) Hexane	5.66	57	1115280	7.481	ppbv 98
27) Carbon Disulfide	4.53	76	1240344	9.287	ppbv 99
28) Methyl tert-Butyl Ether	5.01	73	1027077	8.110	ppbv 99
29) Chloroform	5.72	83	1810995	8.242	ppbv 100
30) Cyclohexane	7.10	84	961053	7.100	ppbv 94
31) cis-1,2-Dichloroethene	5.52	61	1105040	7.792	ppbv 94
32) 1,1,1-Trichloroethane	6.48	97	1786372	8.011	ppbv 97
34) 2-Butanone	5.21	43	1120097	9.620	ppbv 96
35) Carbon Tetrachloride	6.98	117	1901291	9.371	ppbv 98
36) Benzene	6.86	78	2371912	8.235	ppbv 99
37) 1,2-Dichloroethane	6.27	62	1359212	9.771	ppbv 97
38) Trichloroethene	7.80	130	861061	7.925	ppbv 96
39) 1,2-Dichloropropane	7.57	63	939217	8.500	ppbv 94
40) 1,4-Dioxane	7.79	88	229056	7.957	ppbv # 1
41) Tetrahydrofuran	6.02	42	598915	8.286	ppbv 95
42) Bromodichloromethane	7.75	83	2052193	9.704	ppbv 100
43) Methyl Methacrylate	7.98	69	885355	8.984	ppbv 93

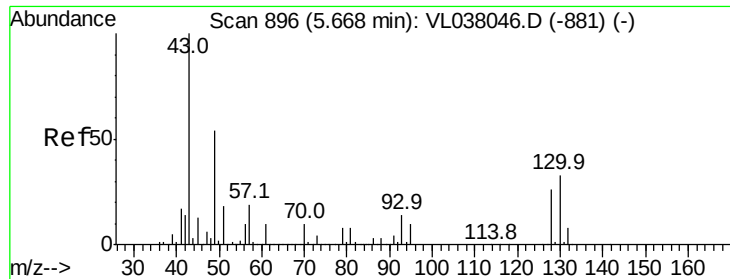
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121421\
 Data File : VL038165.D
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 MSVOA_L
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Quant Time: Dec 15 04:56:20 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.83	57	3939412	8.175	ppbv	98
45) t-1,3-Dichloropropene	9.24	75	849029	10.741	ppbv	95
46) cis-1,3-Dichloropropene	8.66	75	1057398	9.890	ppbv	93
47) 1,1,2-Trichloroethane	9.44	97	944113	8.159	ppbv	93
48) Dibromochloromethane	10.27	129	1702663	9.662	ppbv	98
49) Bromoform	13.00	173	1339984	10.628	ppbv	97
50) 4-Methyl-2-Pentanone	8.70	43	1704416	9.639	ppbv	96
51) 2-Hexanone	10.10	43	828187	9.955	ppbv #	95
52) Tetrachloroethene	11.18	164	780601	7.324	ppbv	97
53) Toluene	9.77	91	2677335	8.079	ppbv	97
54) 1,2-Dibromoethane	10.57	107	1420158	8.688	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.08	131	1051770	7.108	ppbv	95
57) Chlorobenzene	12.11	112	1917438	6.563	ppbv	96
58) Ethyl Benzene	12.67	91	3553461	6.596	ppbv	96
59) m/p-Xylene	12.95	91	3279576	7.232	ppbv #	53
60) o-Xylene	13.65	91	2777594	6.602	ppbv	96
61) Styrene	13.48	104	1471541	6.524	ppbv	93
62) Isopropylbenzene	14.63	105	3771285	6.315	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.63	83	2112698	6.761	ppbv	98
64) n-propylbenzene	15.52	120	989211	6.502	ppbv	92
65) tert-Butylbenzene	16.70	119	3314233	6.299	ppbv	96
66) Benzyl Chloride	16.94	91	253694	9.514	ppbv	95
67) sec-Butylbenzene	17.25	105	4674636	6.377	ppbv	100
69) p-Isopropyltoluene	17.61	119	3813060	6.649	ppbv	98
70) n-Butylbenzene	18.51	91	3983752	7.265	ppbv	98
71) 2-Chlorotoluene	15.41	91	2948974	6.754	ppbv	96
72) 4-Ethyltoluene	15.80	105	3213342	6.588	ppbv	97
73) 1,3,5-Trimethylbenzene	15.95	105	2893228	6.494	ppbv	98
74) 1,2,4-Trimethylbenzene	16.72	105	3052639	6.649	ppbv	96
75) 1,3-Dichlorobenzene	16.95	146	1736780	6.888	ppbv	99
76) 1,4-Dichlorobenzene	17.09	146	1696734	6.687	ppbv	100
77) 1,2-Dichlorobenzene	17.77	146	1674513	6.858	ppbv	99
78) Hexachloro-1,3-Butadiene	23.33	225	995078	6.528	ppbv	98
79) Naphthalene	22.14	128	1858461	7.687	ppbv	99
80) Naphthalene, 2-methyl-	24.93	142	362602	6.998	ppbv #	90
81) 1,2,4-Trichlorobenzene	21.87	180	1033419	7.439	ppbv	97

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 14:08

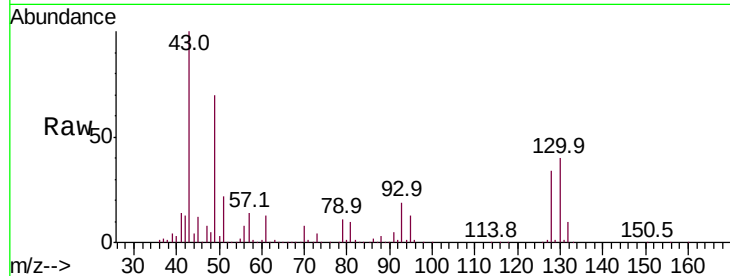
Tot Ion: 49 Resp: 1073446

Ion Ratio Lower Upper

49 100

128 50.1 26.5 79.5

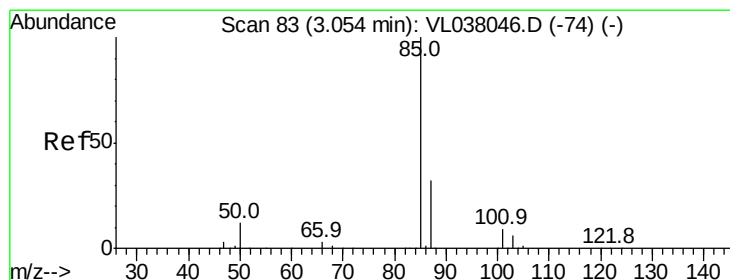
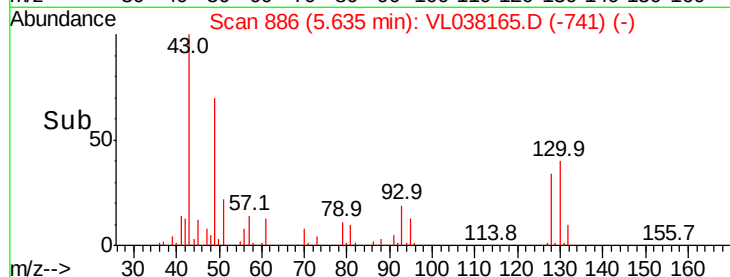
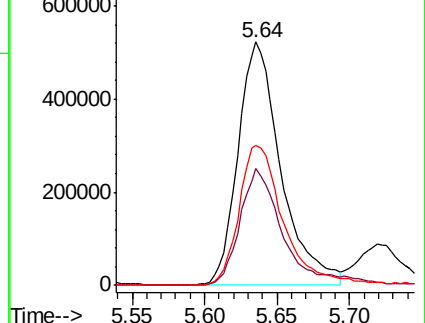
130 61.3 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.178 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.02 min

Lab File: VL038165.D

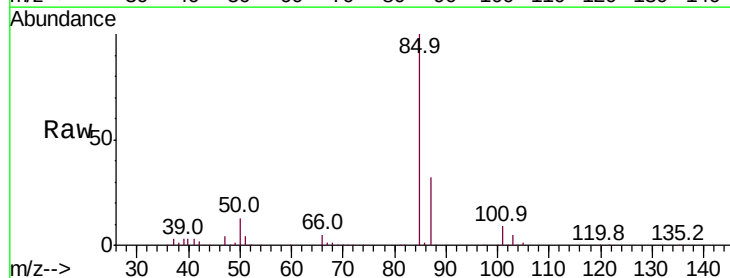
Acq: 14 Dec 2021 14:08

Tgt Ion: 85 Resp: 1627373

Ion Ratio Lower Upper

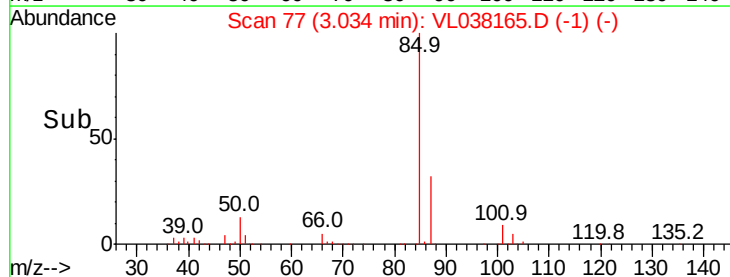
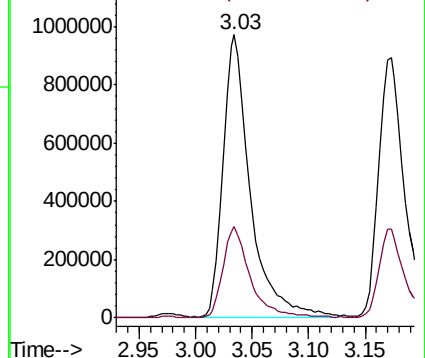
85 100

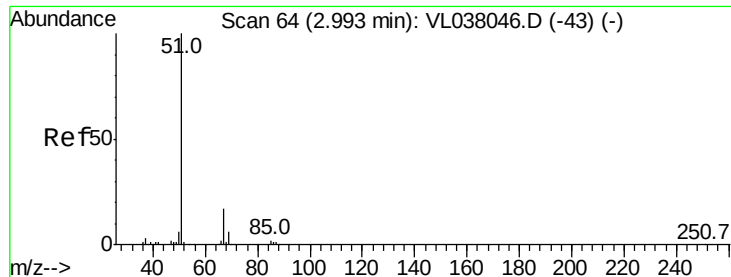
87 32.2 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.084 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId :

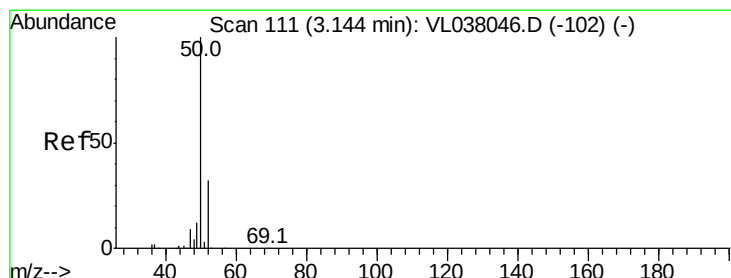
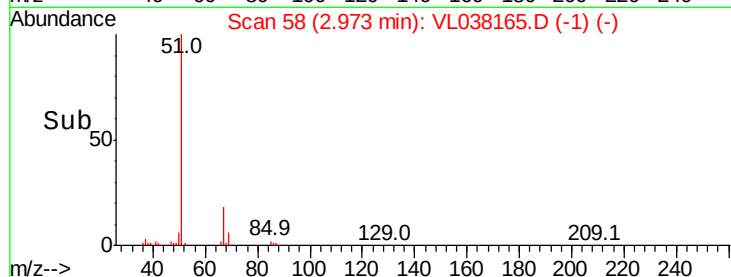
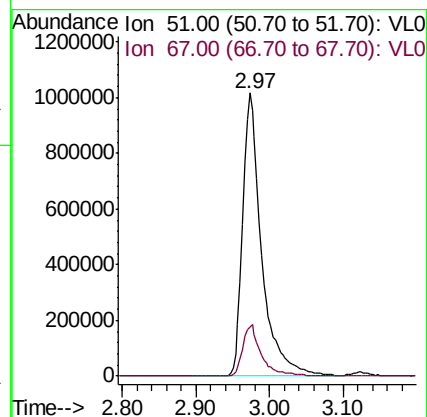
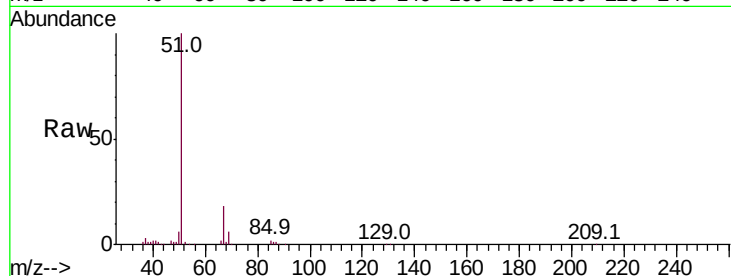
Acq: 14 Dec 2021 14:08

Tot Ion: 51 Resp: 1822346

Ion Ratio Lower Upper

51 100

67 18.0 13.8 20.8



#4

Chloromethane

Concen: 8.078 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.02 min

Lab File: VL038165.D

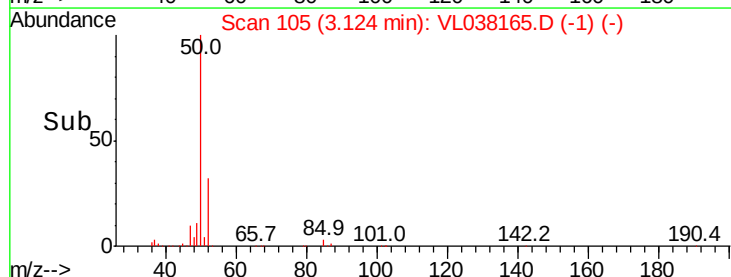
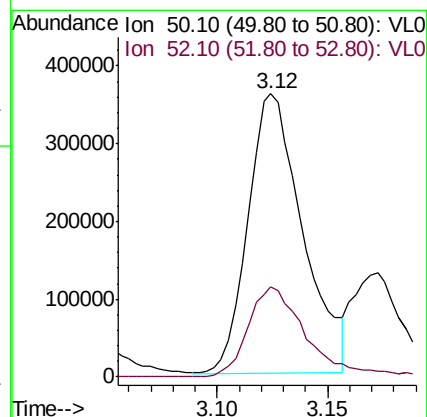
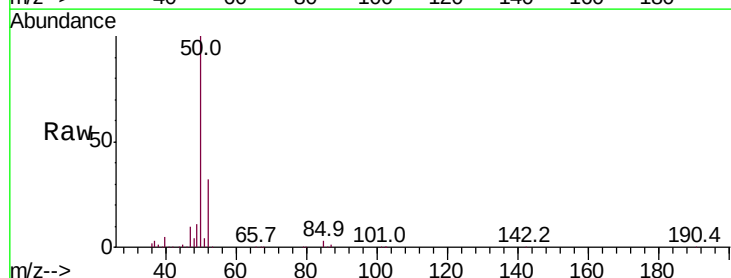
Acq: 14 Dec 2021 14:08

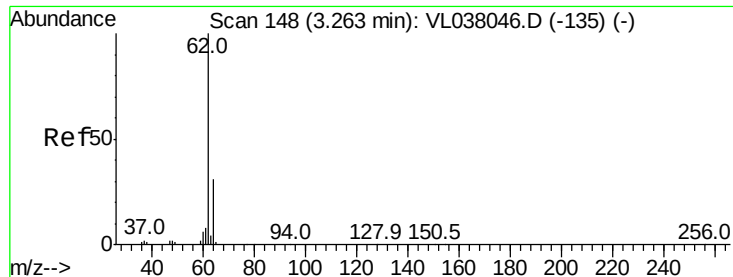
Tgt Ion: 50 Resp: 619915

Ion Ratio Lower Upper

50 100

52 32.1 25.4 38.0





#5

Vinyl Chloride

Concen: 8.241 ppbv

RT: 3.24 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

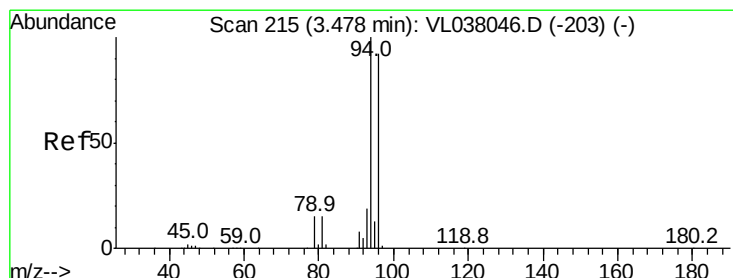
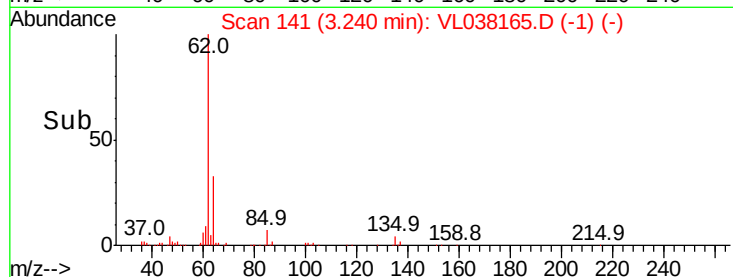
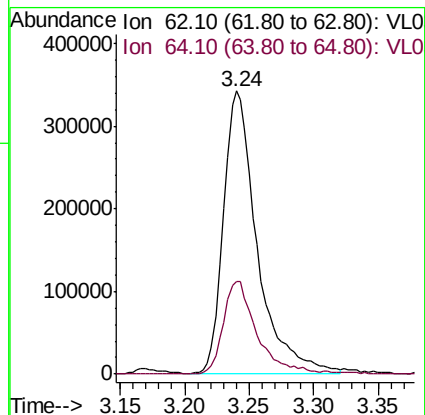
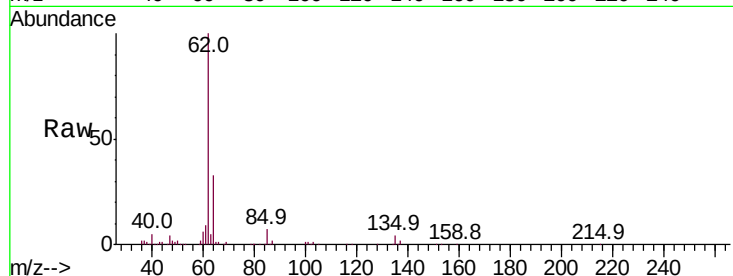
Acq: 14 Dec 2021 14:08

Tot Ion: 62 Resp: 620416

Ion Ratio Lower Upper

62 100

64 32.8 25.1 37.7



#6

Bromomethane

Concen: 8.480 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.02 min

Lab File: VL038165.D

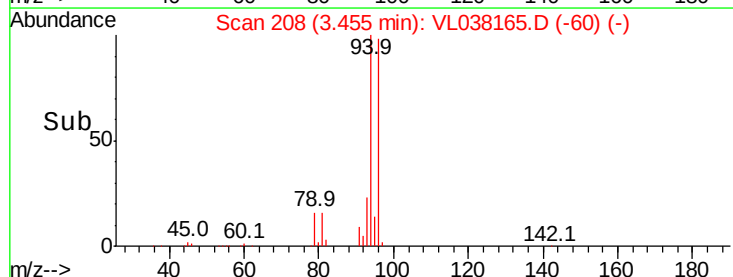
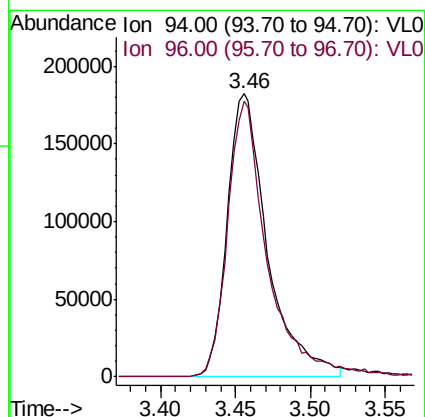
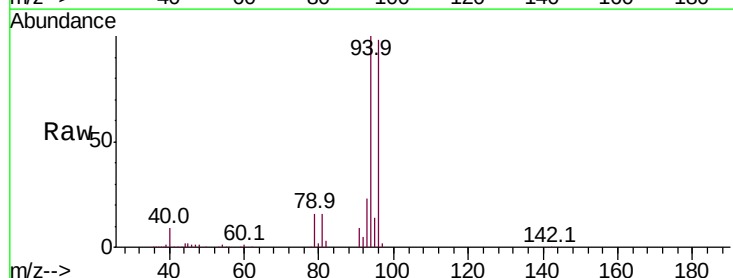
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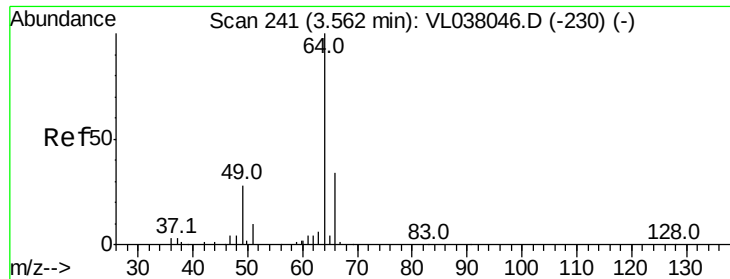
Tgt Ion: 94 Resp: 341984

Ion Ratio Lower Upper

94 100

96 97.5 73.9 110.9





#7

Chloroethane

Concen: 8.231 ppbv

RT: 3.54 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

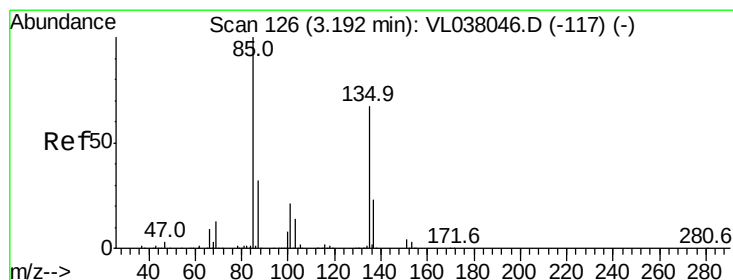
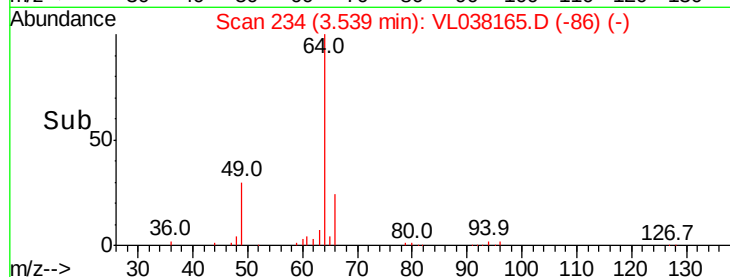
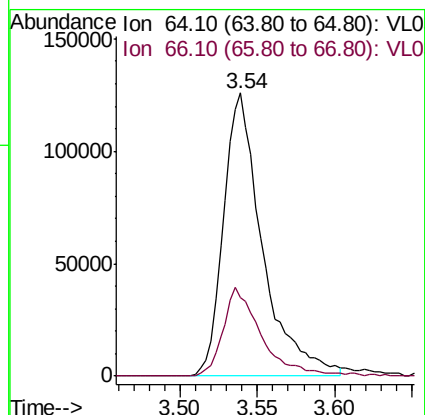
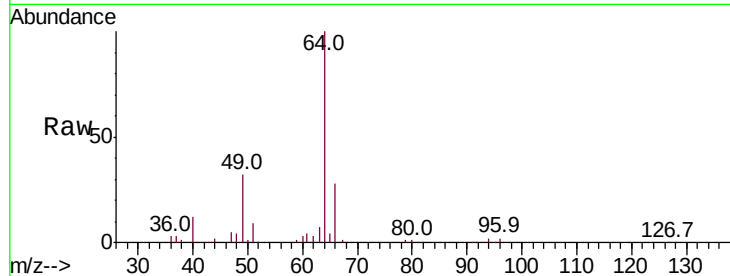
Acq: 14 Dec 2021 14:08

Tot Ion: 64 Resp: 219923

Ion Ratio Lower Upper

64 100

66 27.8 27.2 40.8



#8

Dichlorotetrafluoroethane

Concen: 8.539 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.02 min

Lab File: VL038165.D

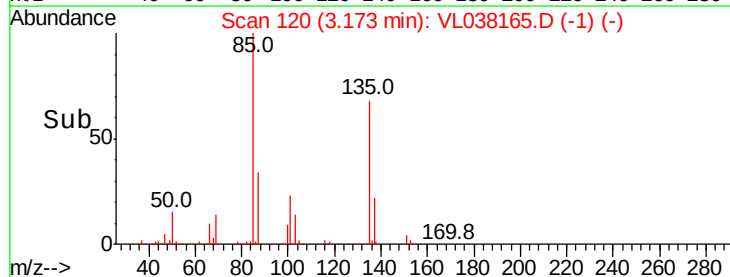
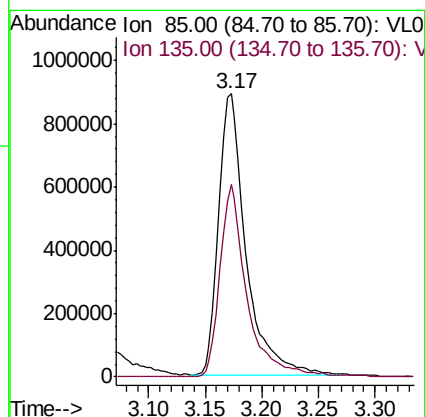
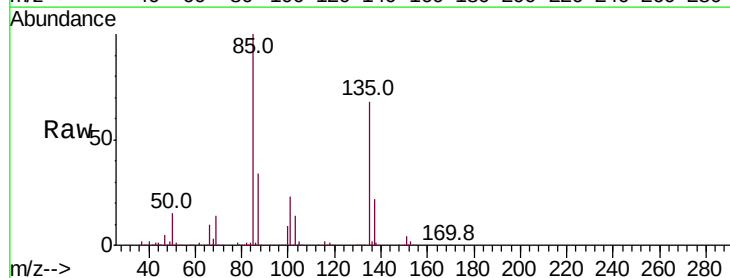
Acq: 14 Dec 2021 14:08

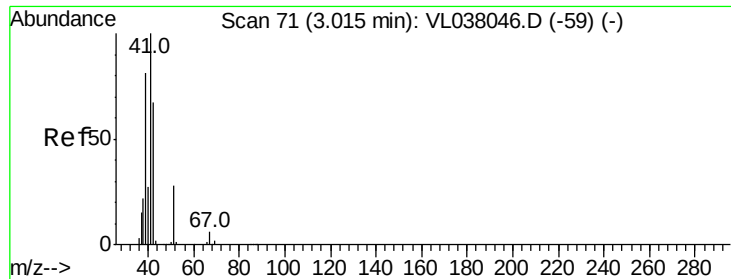
Tgt Ion: 85 Resp: 1506241

Ion Ratio Lower Upper

85 100

135 67.4 57.9 86.9





#9

Propene

Concen: 7.333 ppbv

RT: 2.99 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

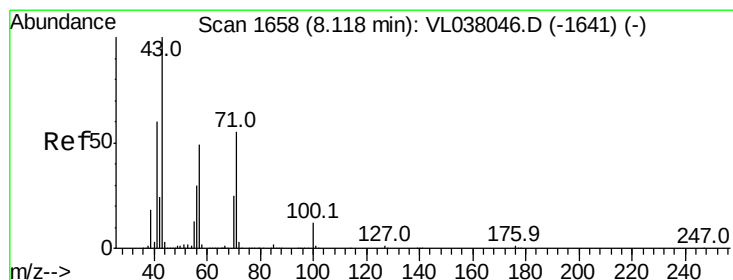
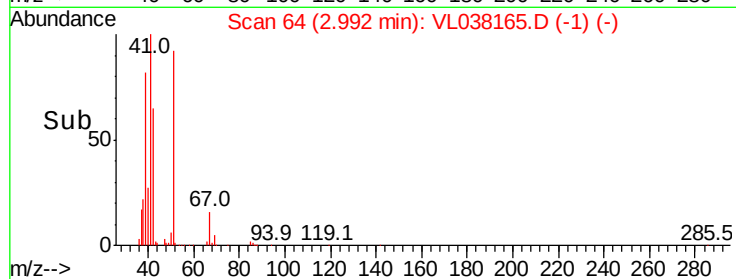
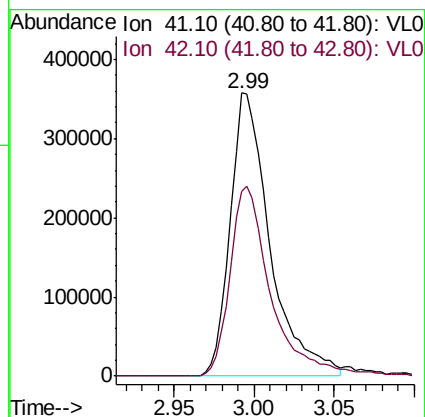
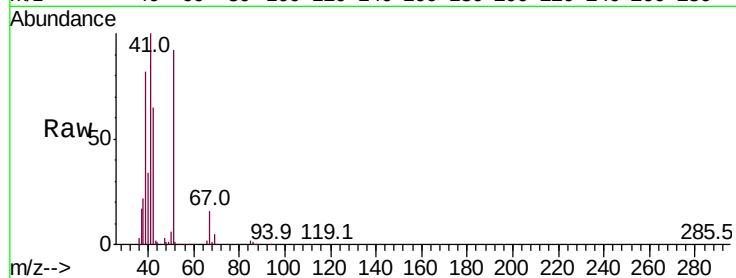
Acq: 14 Dec 2021 14:08

Tot Ion: 41 Resp: 608822

Ion Ratio Lower Upper

41 100

42 69.4 53.8 80.8



#10

Heptane

Concen: 7.686 ppbv

RT: 8.09 min Scan# 1648

Delta R.T. -0.03 min

Lab File: VL038165.D

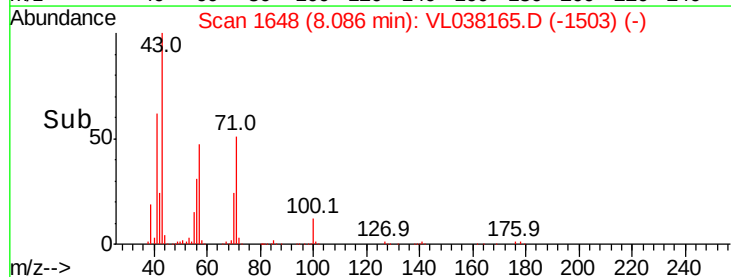
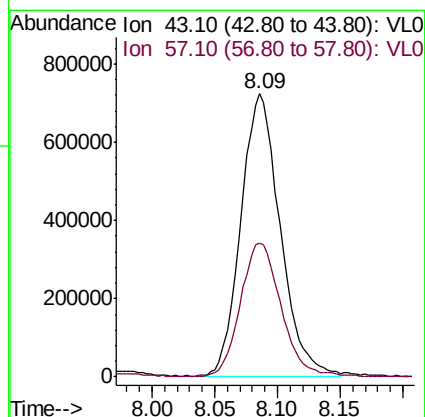
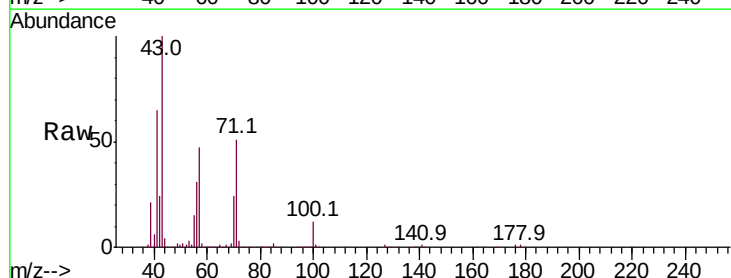
Acq: 14 Dec 2021 14:08

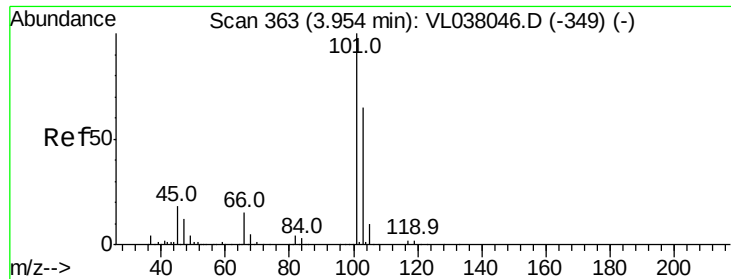
Tgt Ion: 43 Resp: 1577041

Ion Ratio Lower Upper

43 100

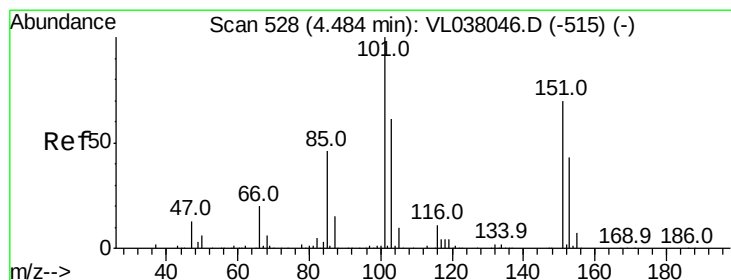
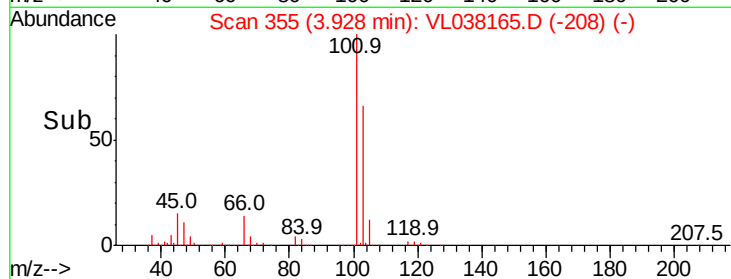
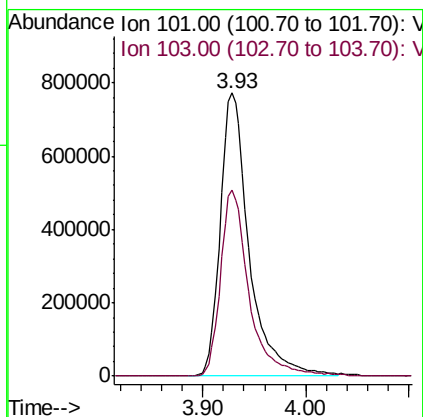
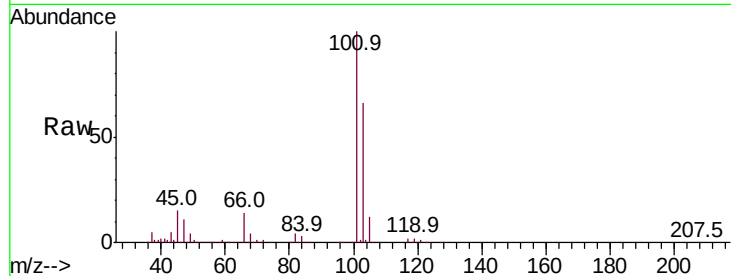
57 49.4 40.4 60.6





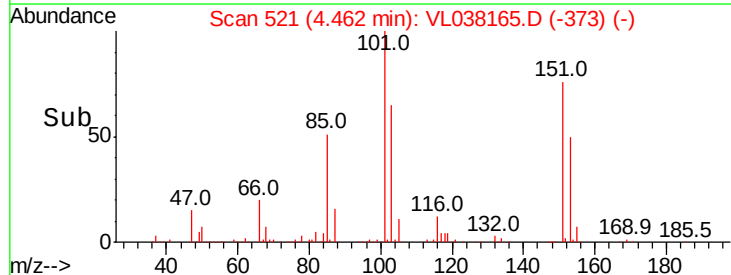
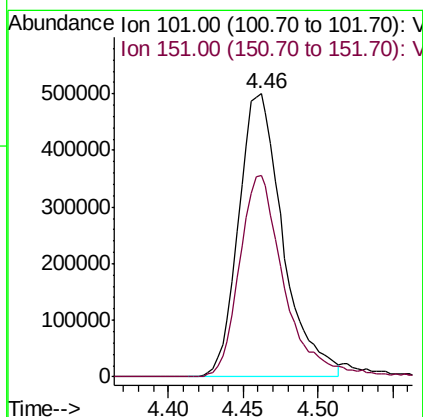
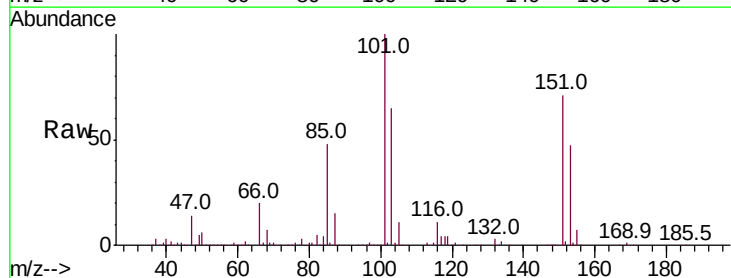
#11
 Trichlorofluoromethane
 Concen: 8.927 ppbv
 RT: 3.93
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 14:08

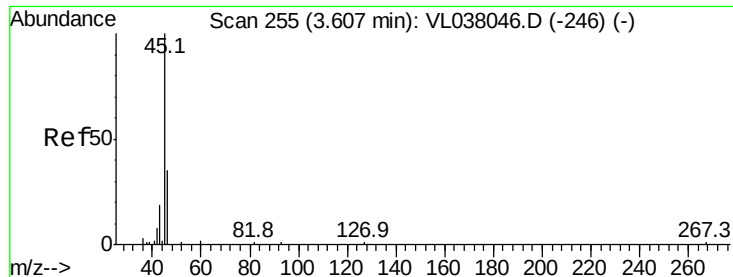
Tot Ion:101 Resp: 1505475
 Ion Ratio Lower Upper
 101 100
 103 65.8 51.8 77.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.645 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. -0.02 min
 Lab File: VL038165.D
 Acq: 14 Dec 2021 14:08

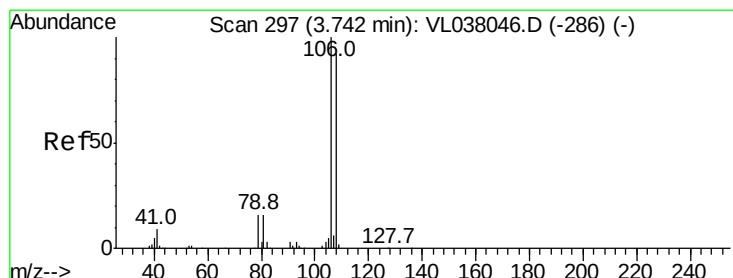
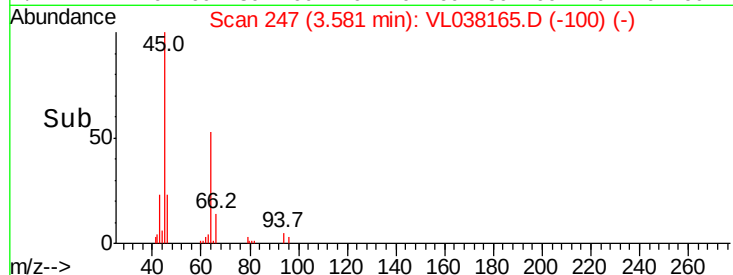
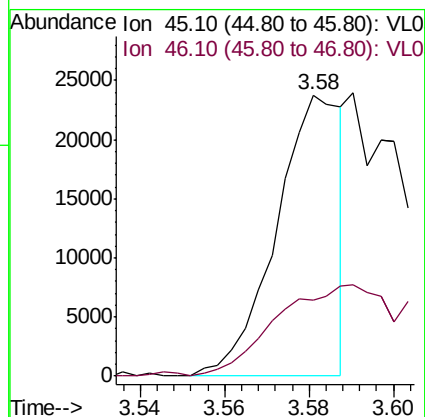
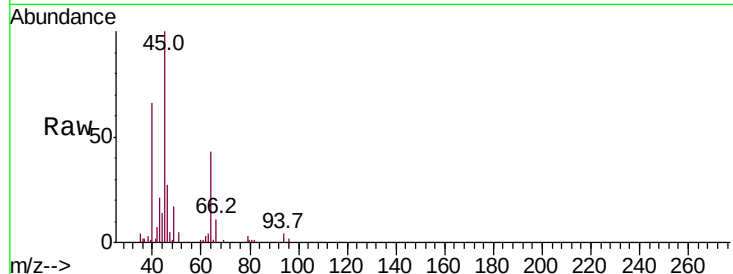
Tgt Ion:101 Resp: 1031232
 Ion Ratio Lower Upper
 101 100
 151 72.5 59.0 88.4





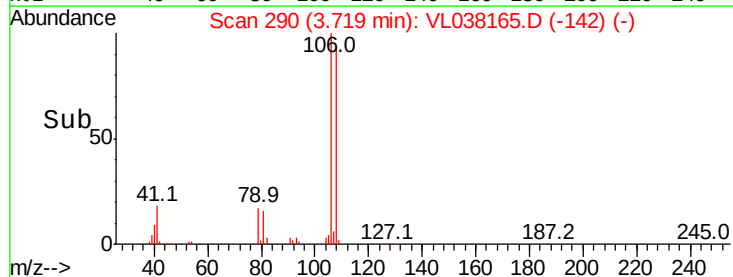
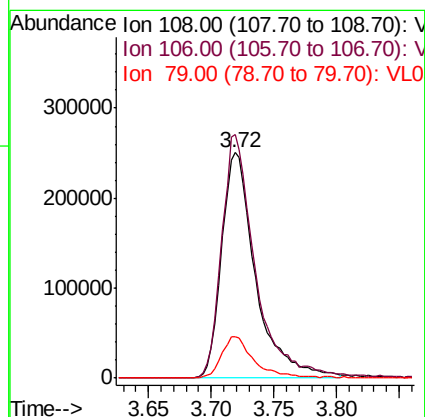
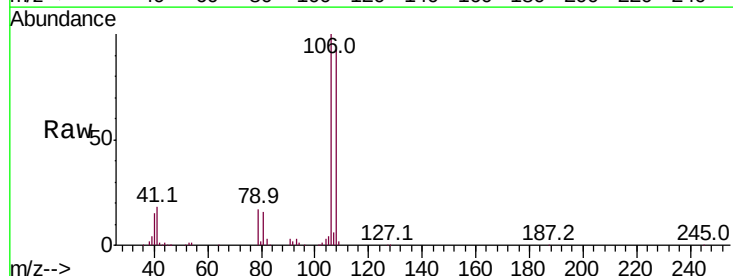
#13
Ethanol
Concen: 3.178 ppbv
RT: 3.58
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Dec 2021 14:08

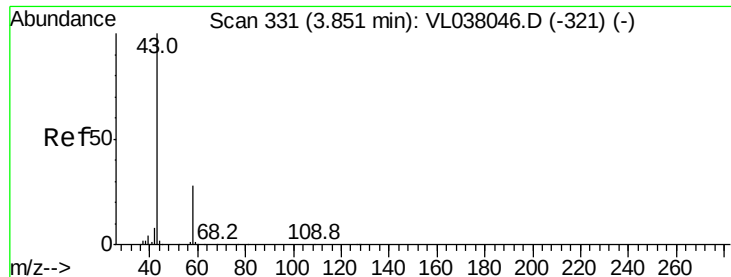
Tot Ion: 45 Resp: 25500
Ion Ratio Lower Upper
45 100
46 0.0 17.6 70.2#



#14
Bromoethene
Concen: 8.849 ppbv
RT: 3.72 min Scan# 290
Delta R.T. -0.02 min
Lab File: VL038165.D
Acq: 14 Dec 2021 14:08

Tgt Ion: 108 Resp: 472692
Ion Ratio Lower Upper
108 100
106 108.5 89.4 134.0
79 18.1 14.1 21.1





#15

Acetone

Concen: 8.435 ppbv

RT: 3.83

Delta R.T. MSVOA_L

Lab File:

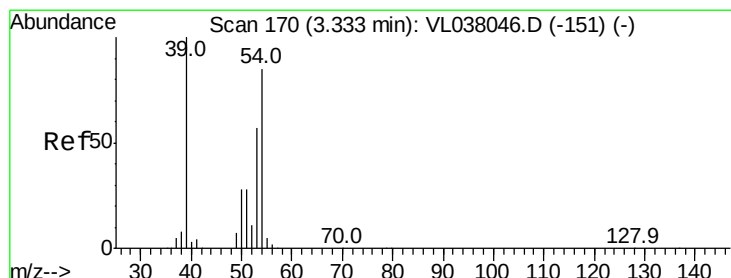
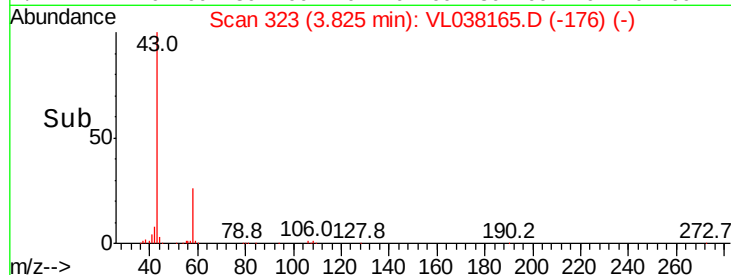
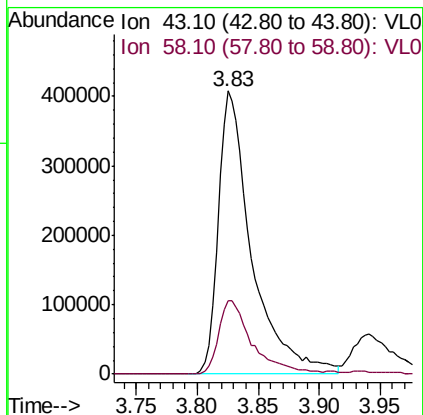
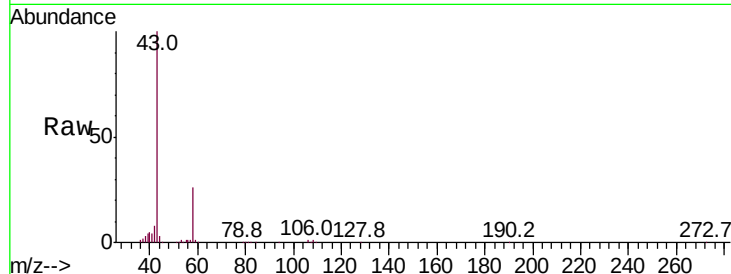
Acq: 14 Dec 2021 14:08

Tot Ion: 43 Resp: 785008

Ion Ratio Lower Upper

43 100

58 28.4 22.4 33.6



#16

1,3-Butadiene

Concen: 7.991 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.02 min

Lab File: VL038165.D

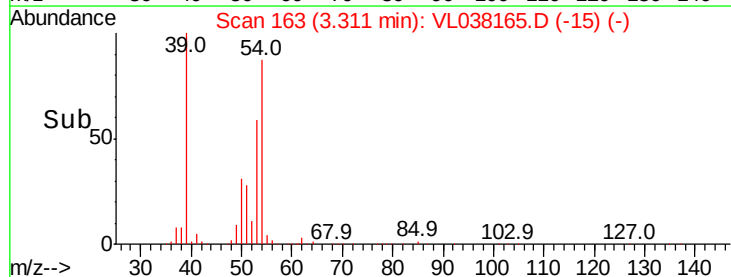
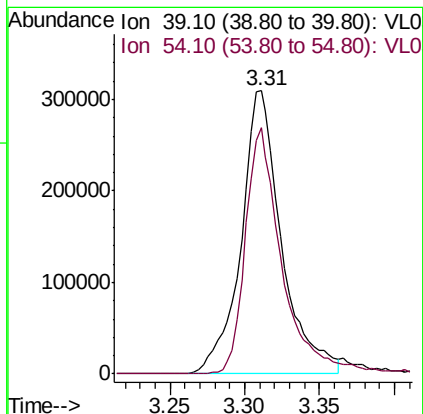
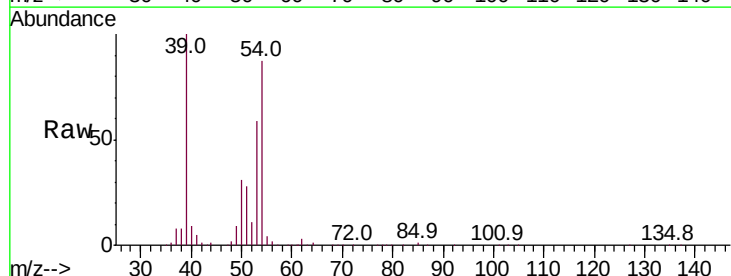
Acq: 14 Dec 2021 14:08

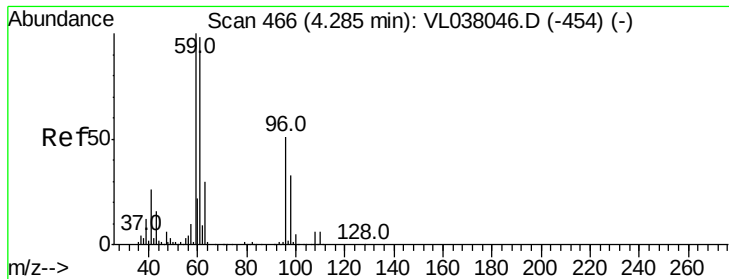
Tgt Ion: 39 Resp: 580217

Ion Ratio Lower Upper

39 100

54 80.0 64.4 96.6





#17

tert-Butyl alcohol

Concen: 8.306 ppbv

RT: 4.26 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

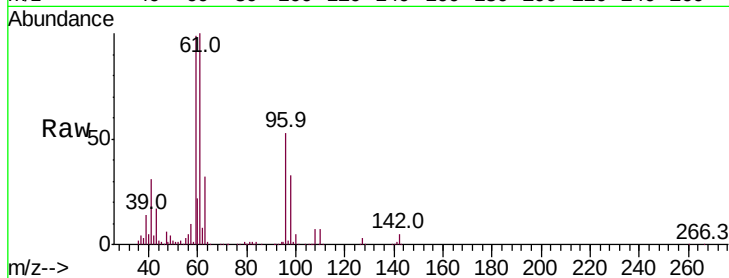
Acq: 14 Dec 2021 14:08

Tot Ion: 59 Resp: 937686

Ion Ratio Lower Upper

59 100

57 10.6 8.6 13.0



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.26

400000

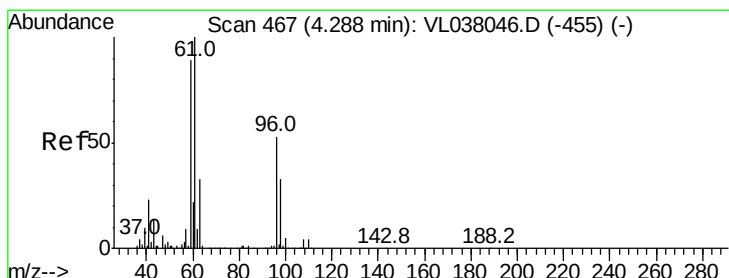
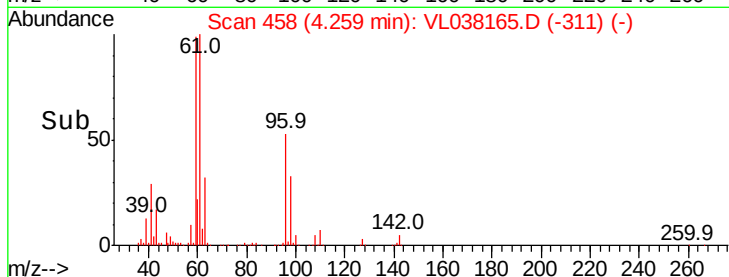
300000

200000

100000

0

Time-->



#18

1,1-Dichloroethene

Concen: 8.563 ppbv

RT: 4.27 min Scan# 460

Delta R.T. -0.02 min

Lab File: VL038165.D

Acq: 14 Dec 2021 14:08

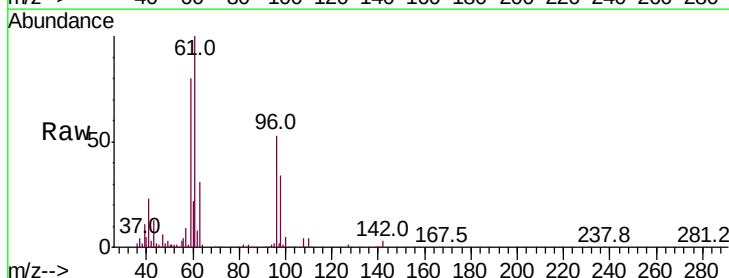
Tgt Ion: 96 Resp: 468584

Ion Ratio Lower Upper

96 100

61 189.0 149.8 224.8

98 64.4 50.2 75.2



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

600000

500000

400000

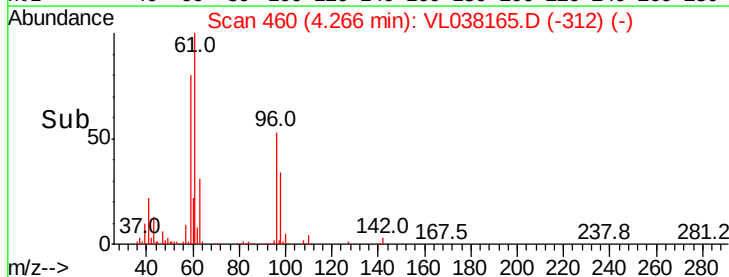
300000

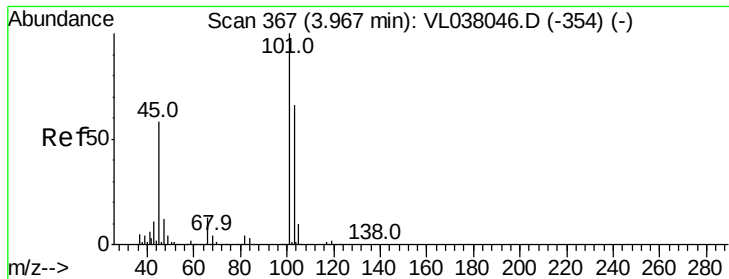
200000

100000

0

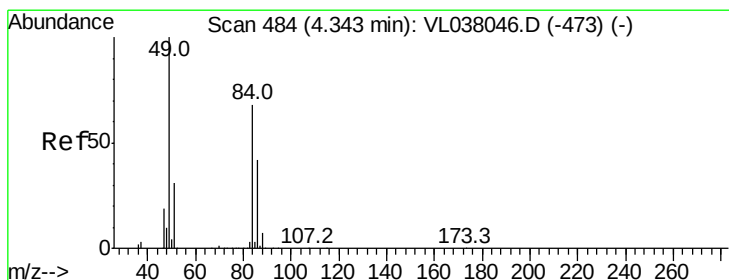
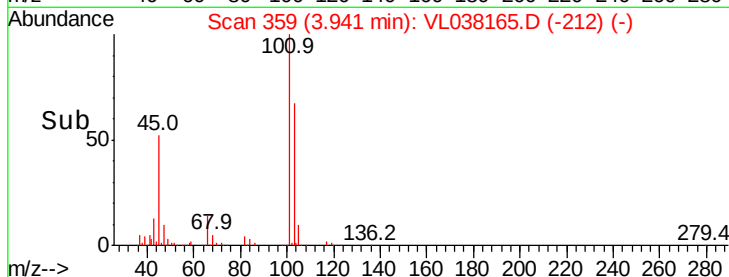
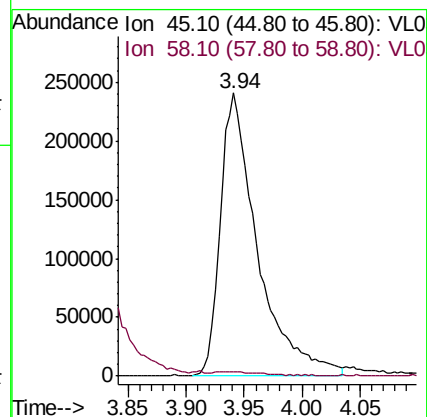
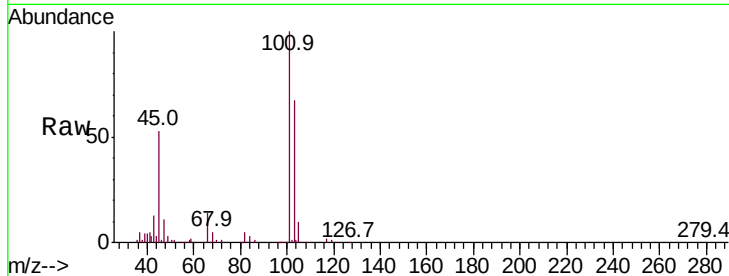
Time-->





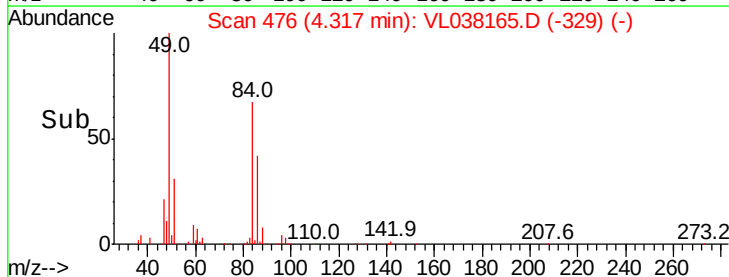
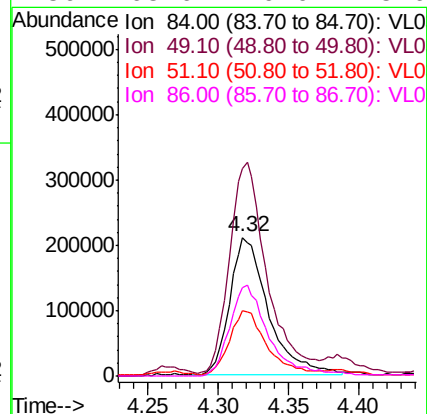
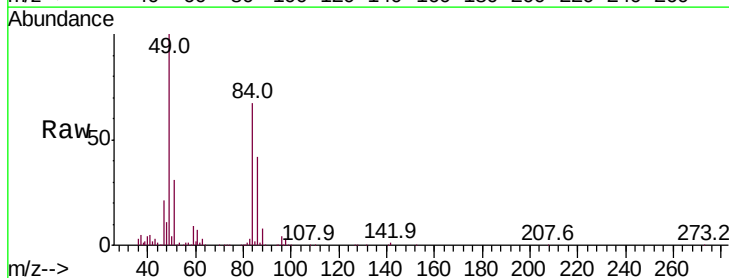
#19
Isopropyl Alcohol
Concen: 7.951 ppbv
RT: 3.94
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Dec 2021 14:08

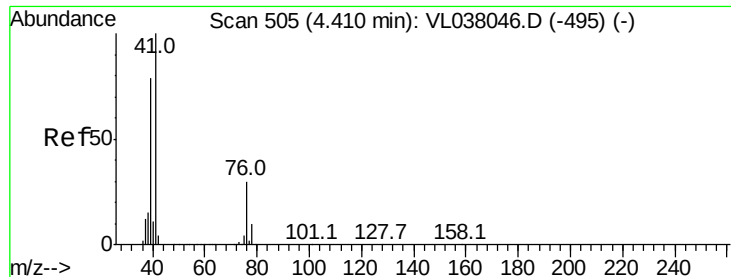
Tot Ion: 45 Resp: 534650
Ion Ratio Lower Upper
45 100
58 1.6 1.4 2.0



#20
Methylene Chloride
Concen: 7.793 ppbv
RT: 4.32 min Scan# 476
Delta R.T.: -0.03 min
Lab File: VL038165.D
Acq: 14 Dec 2021 14:08

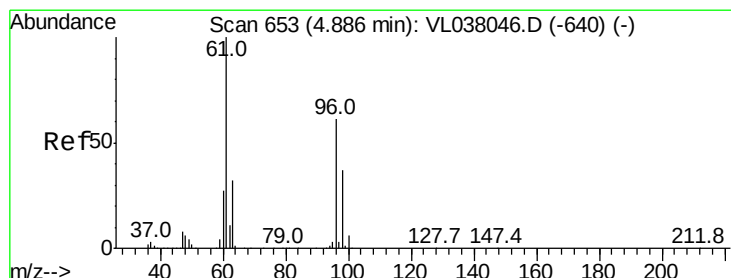
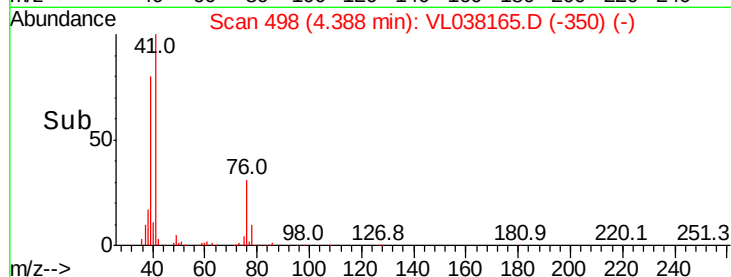
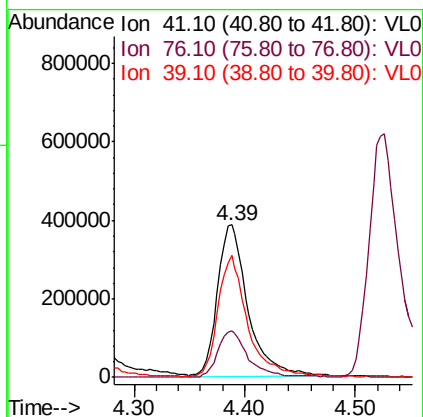
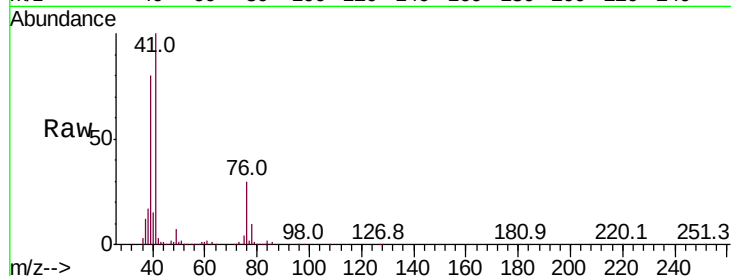
Tgt Ion: 84 Resp: 406260
Ion Ratio Lower Upper
84 100
49 147.2 118.2 177.2
51 45.7 36.8 55.2
86 63.6 49.0 73.6





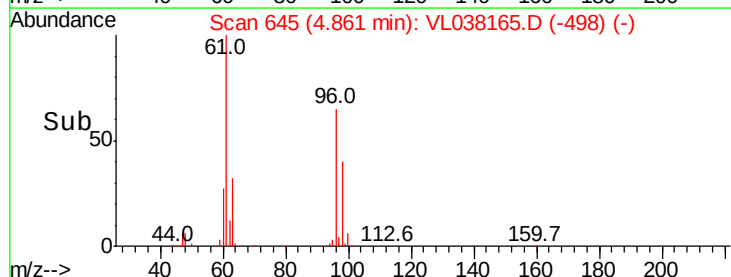
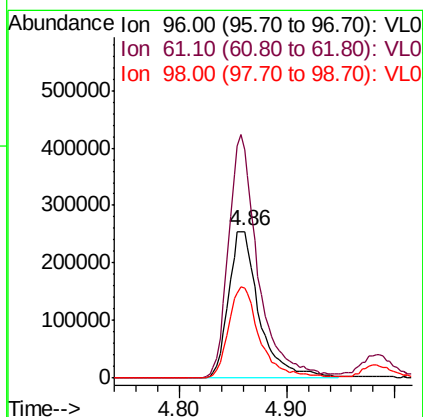
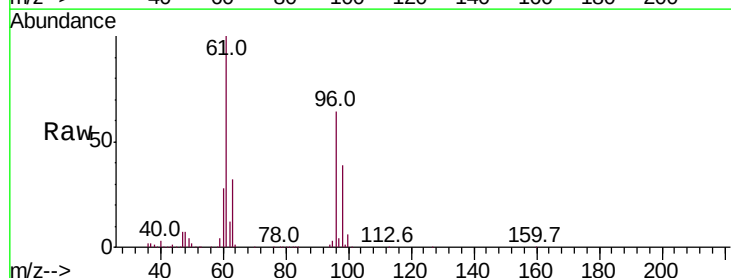
#21
 Allvl Chloride
 Concen: 8.544 ppbv
 RT: 4.39
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 14 Dec 2021 14:08

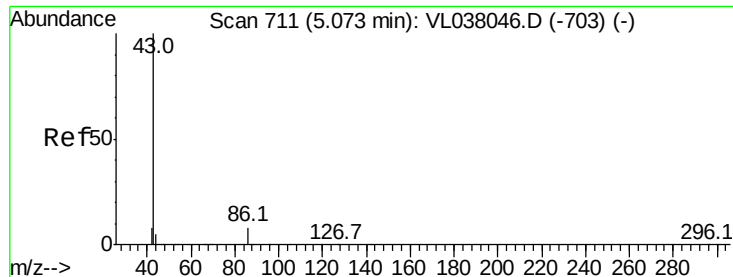
Tot Ion	Ratio	Lower	Upper
41	100		
76	30.8	24.6	36.8
39	78.2	63.4	95.0



#22
 trans-1,2-Dichloroethene
 Concen: 9.194 ppbv
 RT: 4.86 min Scan# 645
 Delta R.T. -0.03 min
 Lab File: VL038165.D
 Acq: 14 Dec 2021 14:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.0	131.6	197.4
98	61.2	48.4	72.6





#23

Vinyl Acetate

Concen: 8.763 ppbv

RT: 5.04 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 14 Dec 2021 14:08

Tot Ion: 43 Resp: 1180584

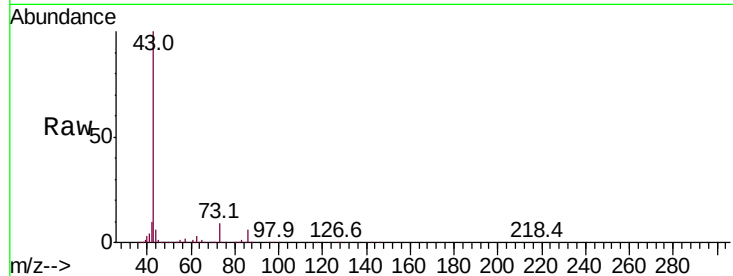
Ion Ratio Lower Upper

43 100

86 6.0 5.3 7.9

42 10.1 7.0 10.6

44 5.3 4.0 6.0

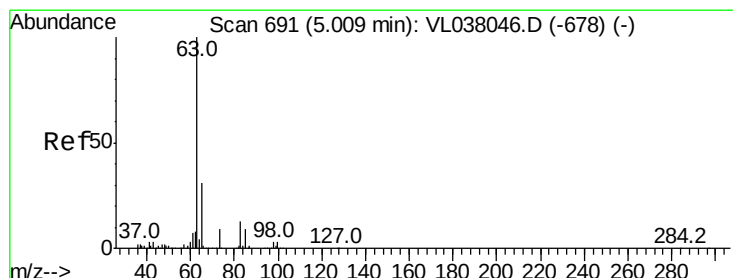
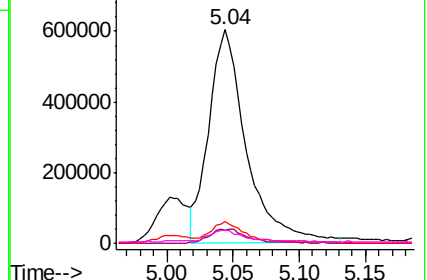
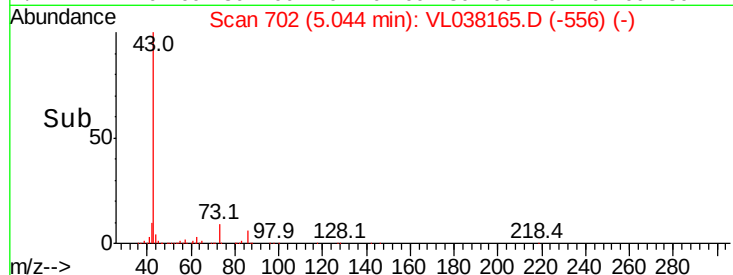


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.657 ppbv

RT: 4.98 min Scan# 683

Delta R.T. -0.03 min

Lab File: VL038165.D

Acq: 14 Dec 2021 14:08

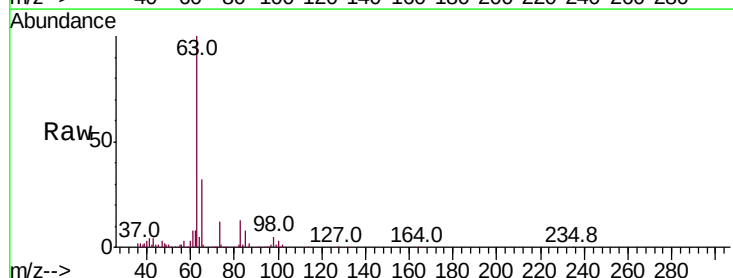
Tgt Ion: 63 Resp: 971276

Ion Ratio Lower Upper

63 100

98 4.3 1.8 5.4

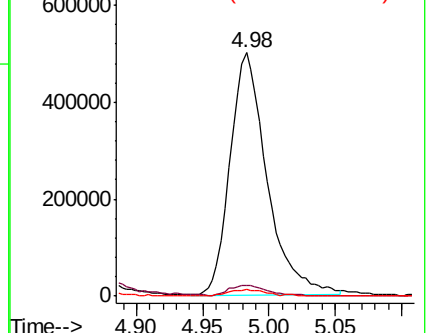
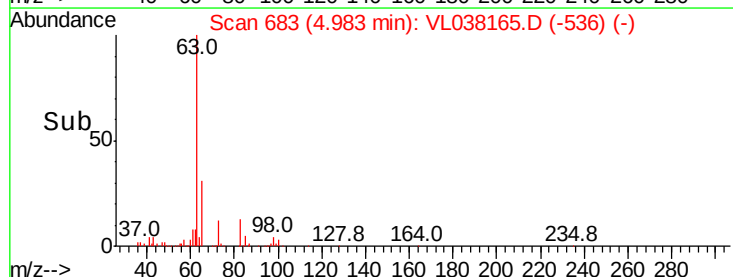
100 2.5 1.4 4.0

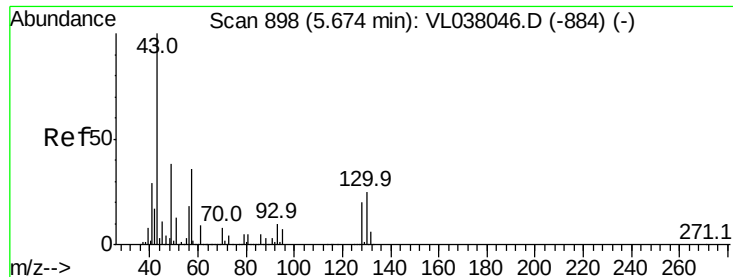


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

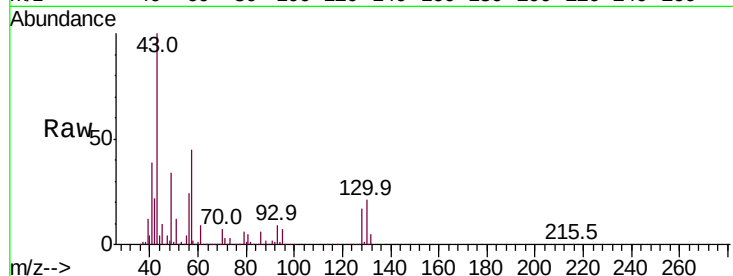
Ion 100.00 (99.70 to 100.70): VL0



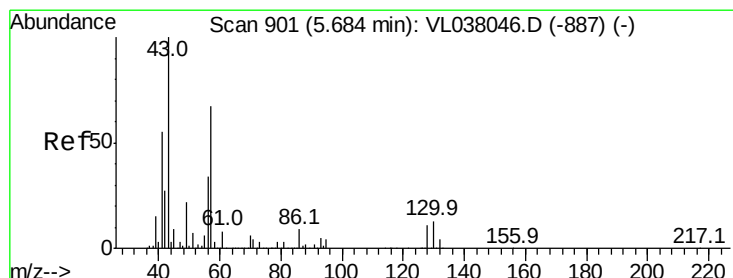
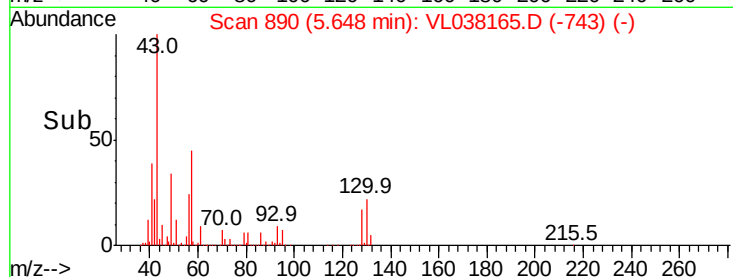
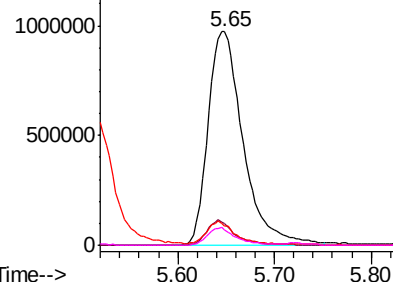


#25
Ethyl Acetate
Concen: 7.887 ppbv
RT: 5.65
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 Dec 2021 14:08

Tot Ion:	43	Resp:	2439685
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.9	11.9
61	9.8	7.8	11.6
70	6.7	5.8	8.8

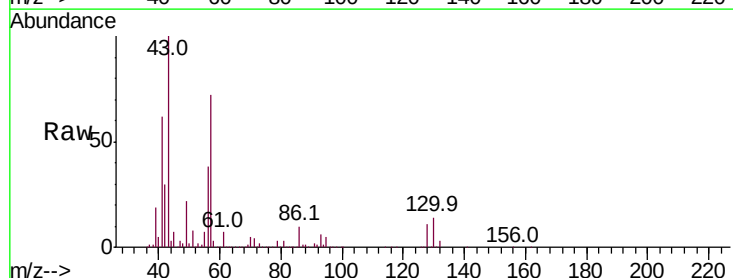


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

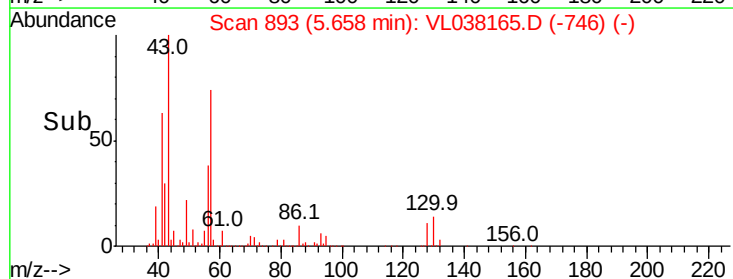
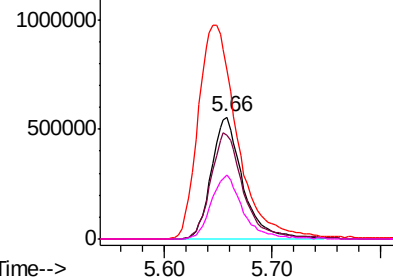


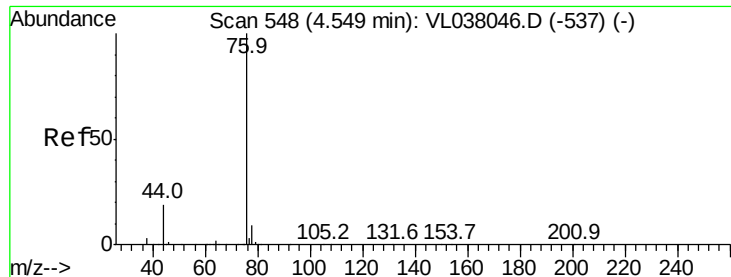
#26
Hexane
Concen: 7.481 ppbv
RT: 5.66 min Scan# 893
Delta R.T.: -0.03 min
Lab File: VL038165.D
Acq: 14 Dec 2021 14:08

Tgt Ion:	57	Resp:	1115280
Ion	Ratio	Lower	Upper
57	100		
41	91.9	71.4	107.2
43	221.3	174.6	261.8
56	53.4	43.2	64.8



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





#27

Carbon Disulfide

Concen: 9.287 ppbv

RT: 4.53 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 14:08

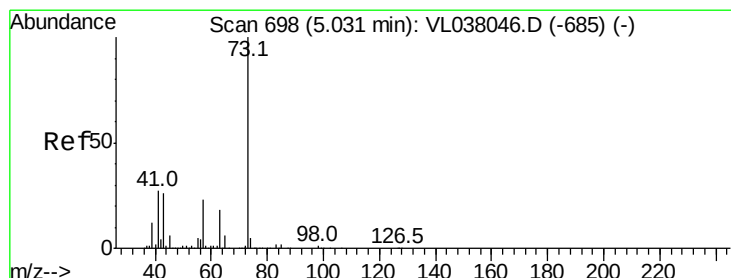
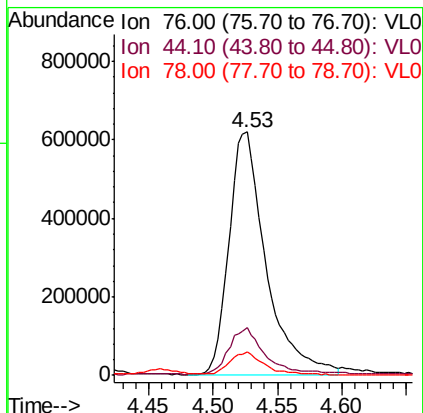
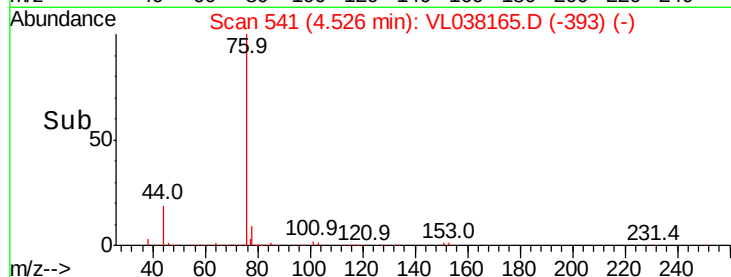
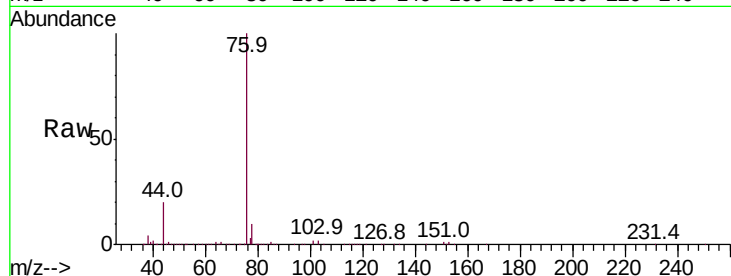
Tot Ion: 76 Resp: 1240344

Ion Ratio Lower Upper

76 100

44 19.1 14.9 22.3

78 9.4 7.6 11.4



#28

Methyl tert-Butyl Ether

Concen: 8.110 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.03 min

Lab File: VL038165.D

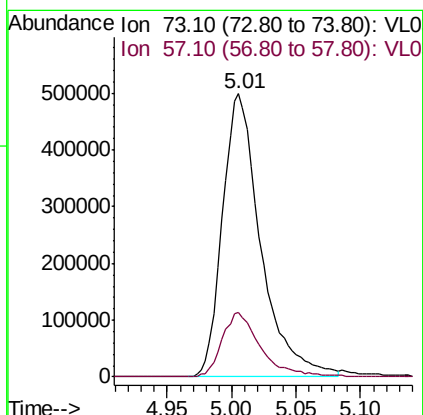
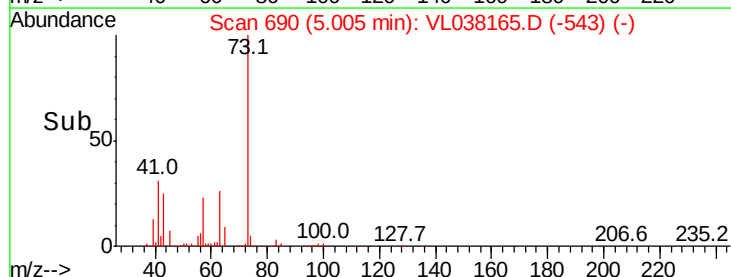
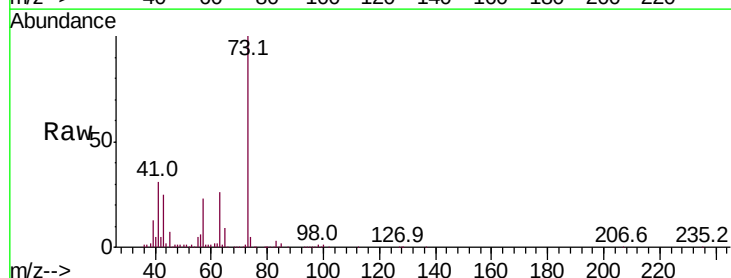
Acq: 14 Dec 2021 14:08

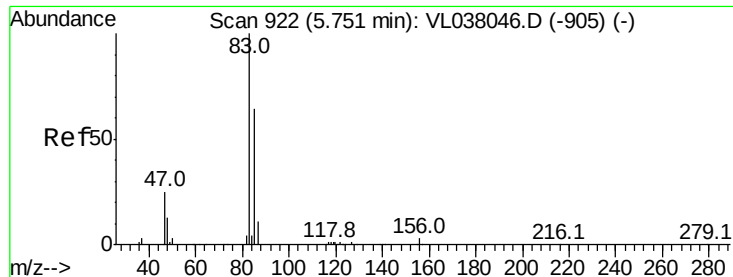
Tgt Ion: 73 Resp: 1027077

Ion Ratio Lower Upper

73 100

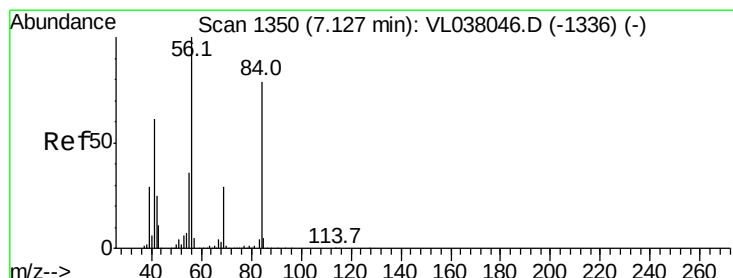
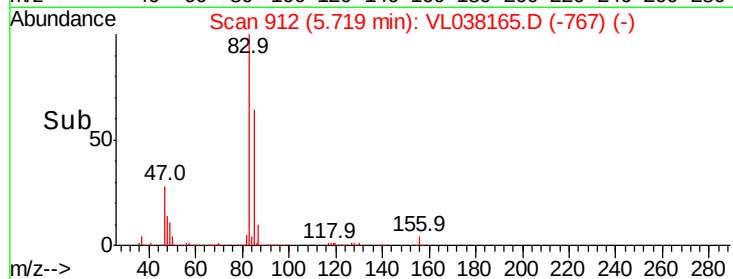
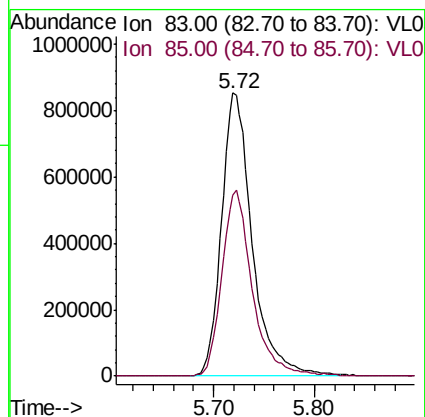
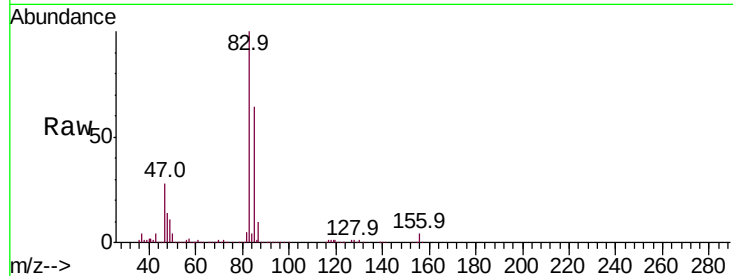
57 23.3 19.0 28.4





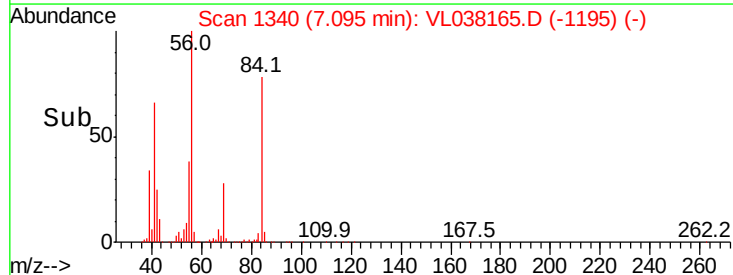
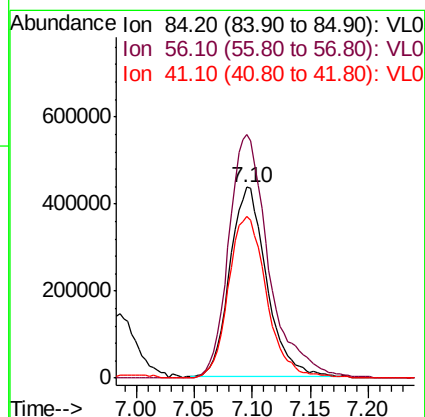
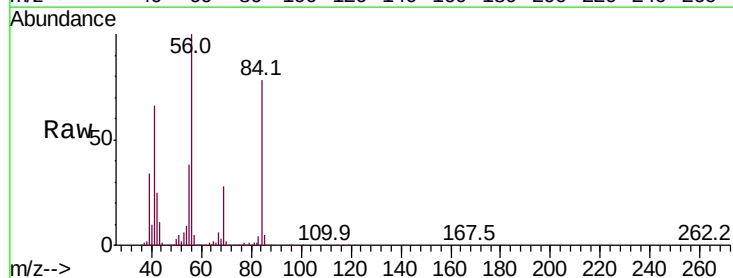
#29
Chloroform
Concen: 8.242 ppbv
RT: 5.72
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 14:08

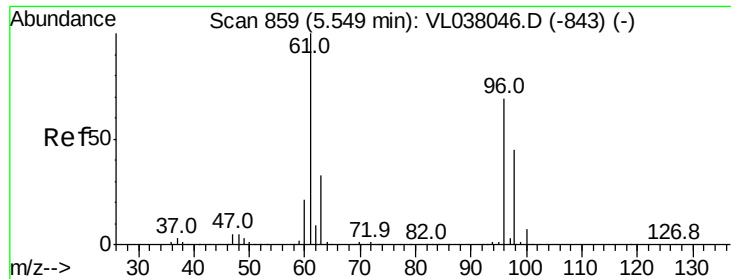
Tot Ion: 83 Resp: 1810995
Ion Ratio Lower Upper
83 100
85 63.6 51.0 76.6



#30
Cyclohexane
Concen: 7.100 ppbv
RT: 7.10 min Scan# 1340
Delta R.T. -0.03 min
Lab File: VL038165.D
Acq: 14 Dec 2021 14:08

Tgt Ion: 84 Resp: 961053
Ion Ratio Lower Upper
84 100
56 140.6 108.1 162.1
41 88.8 64.4 96.6





#31

cis-1,2-Dichloroethene

Concen: 7.792 ppbv

RT: 5.52 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 14:08

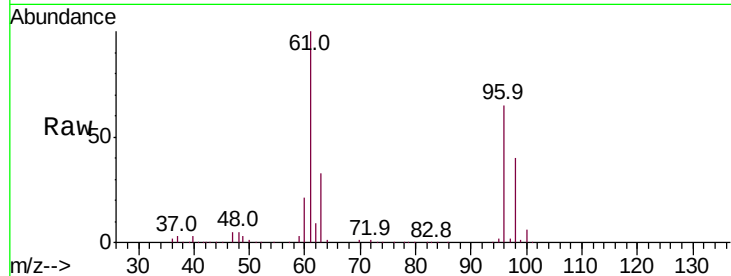
Tot Ion: 61 Resp: 1105040

Ion Ratio Lower Upper

61 100

96 64.8 55.4 83.2

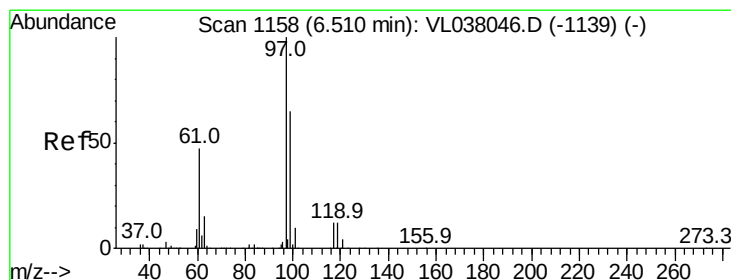
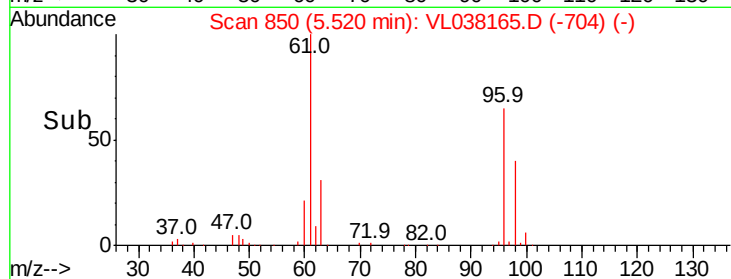
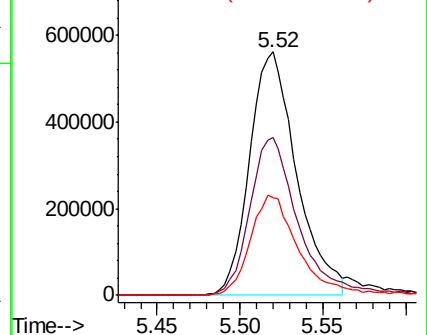
98 40.4 35.7 53.5



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: 8.011 ppbv

RT: 6.48 min Scan# 1148

Delta R.T. -0.03 min

Lab File: VL038165.D

Acq: 14 Dec 2021 14:08

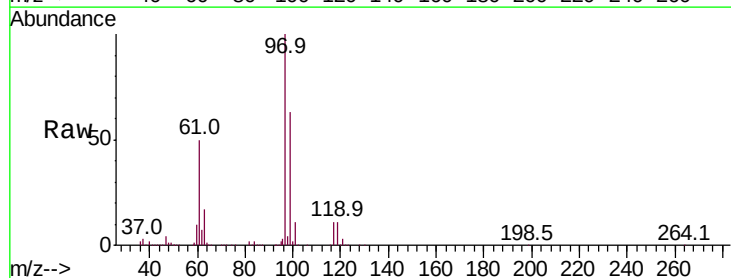
Tgt Ion: 97 Resp: 1786372

Ion Ratio Lower Upper

97 100

99 65.2 52.2 78.4

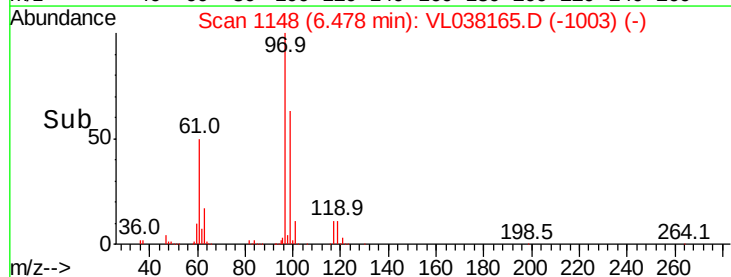
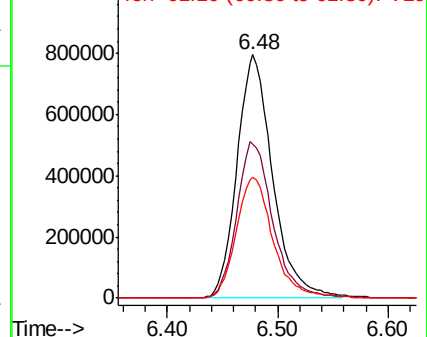
61 51.6 37.7 56.5

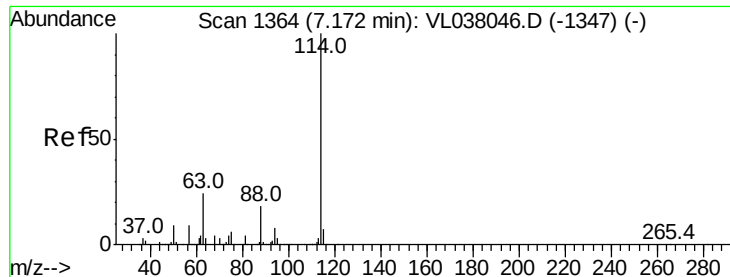


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

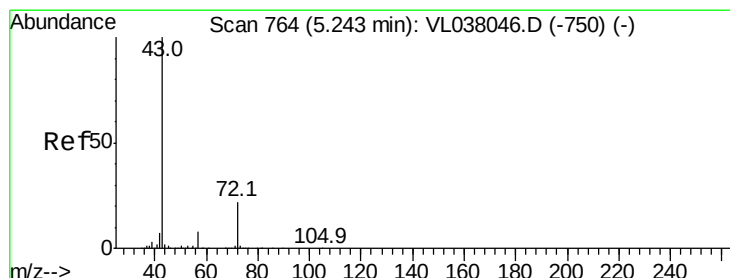
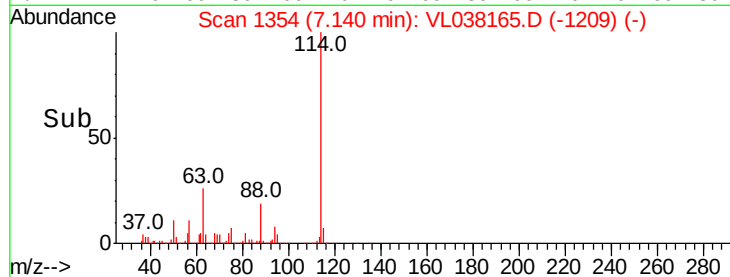
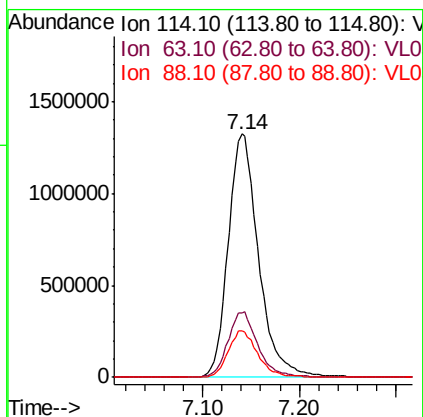
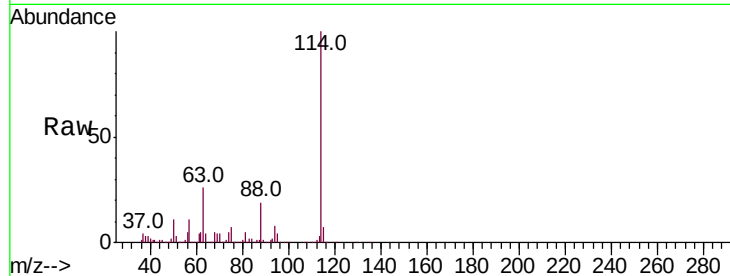
Ion 61.10 (60.80 to 61.80): VL0





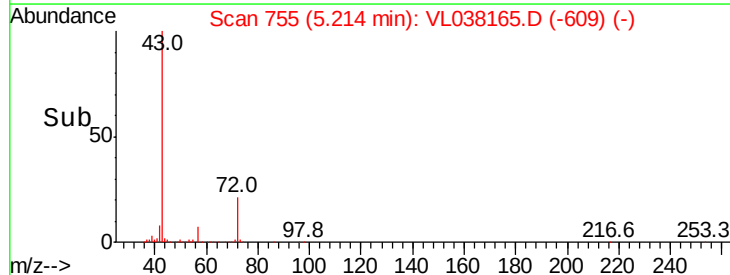
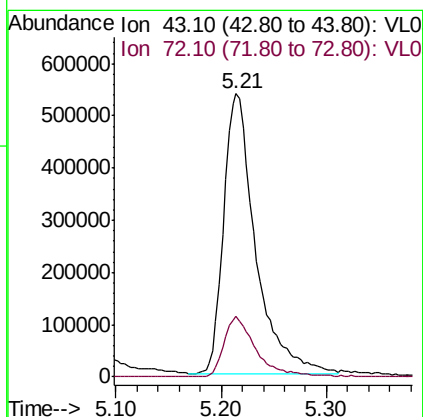
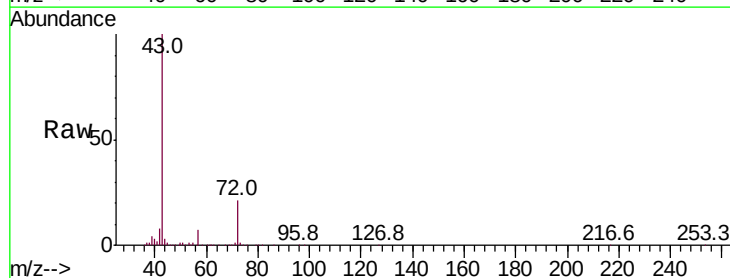
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.14 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 14:08

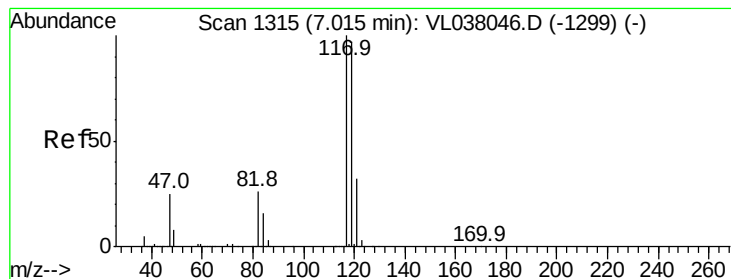
Tot Ion:114 Resp: 2887558
 Ion Ratio Lower Upper
 114 100
 63 26.8 19.7 29.5
 88 18.9 14.4 21.6



#34
 2-Butanone
 Concen: 9.620 ppbv
 RT: 5.21 min Scan# 755
 Delta R.T. -0.03 min
 Lab File: VL038165.D
 Acq: 14 Dec 2021 14:08

Tgt Ion: 43 Resp: 1120097
 Ion Ratio Lower Upper
 43 100
 72 21.7 18.8 28.2





#35

Carbon Tetrachloride

Concen: 9.371 ppbv

RT: 6.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 14:08

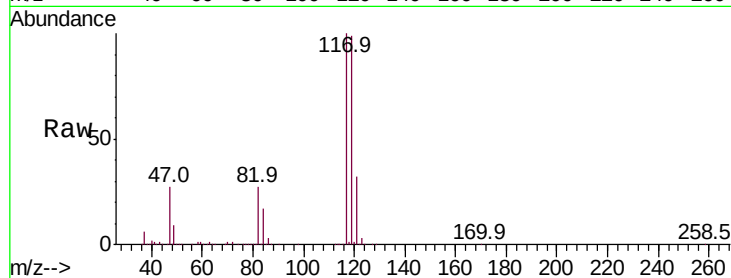
Tot Ion:117 Resp: 1901291

Ion Ratio Lower Upper

117 100

119 99.1 77.7 116.5

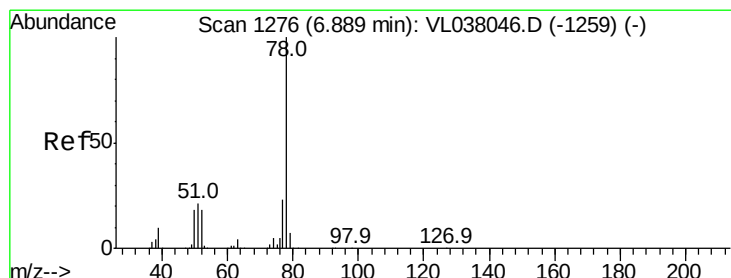
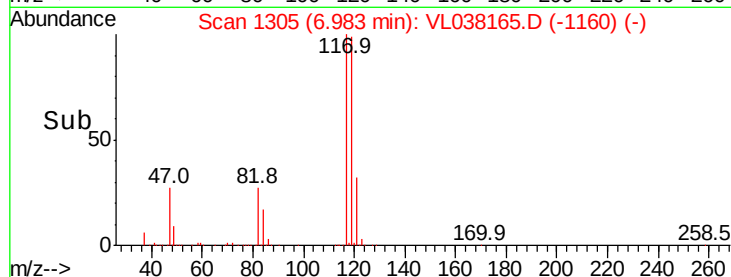
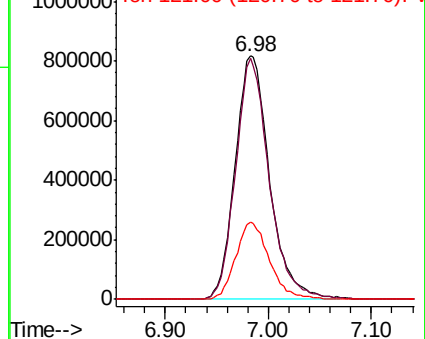
121 31.7 25.6 38.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 8.235 ppbv

RT: 6.86 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VL038165.D

Acq: 14 Dec 2021 14:08

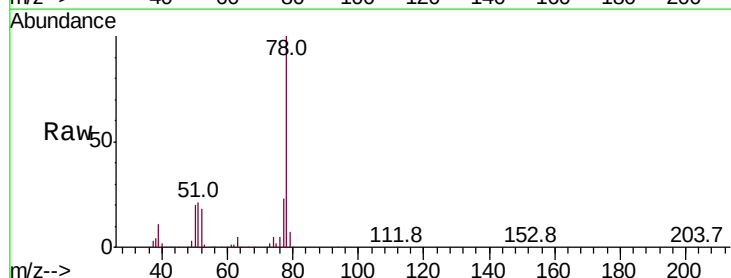
Tgt Ion: 78 Resp: 2371912

Ion Ratio Lower Upper

78 100

77 23.0 18.2 27.4

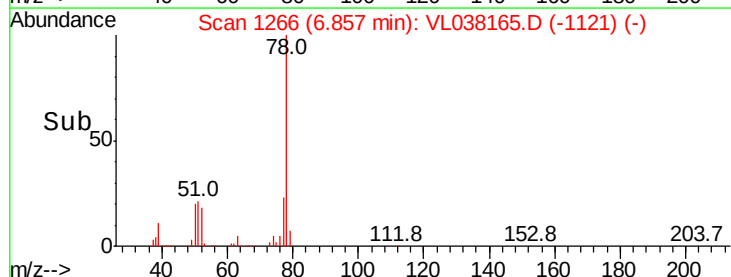
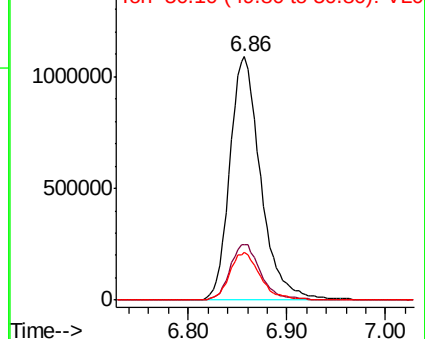
50 19.5 14.7 22.1

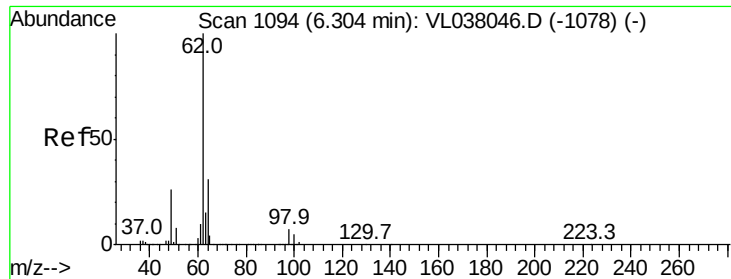


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

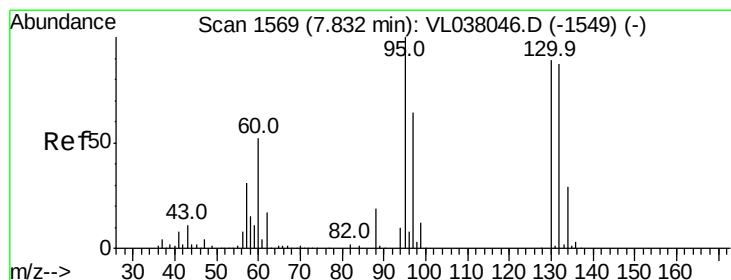
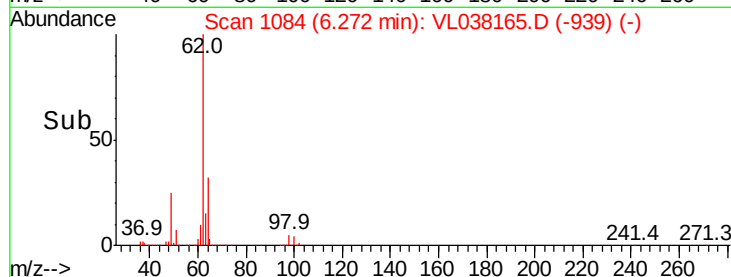
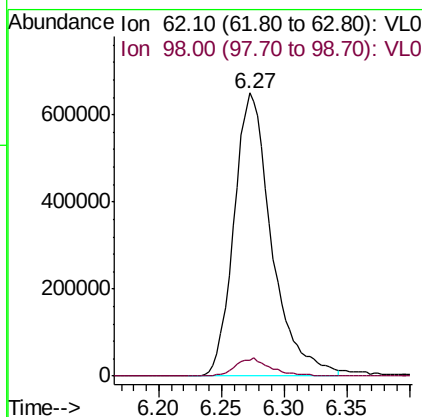
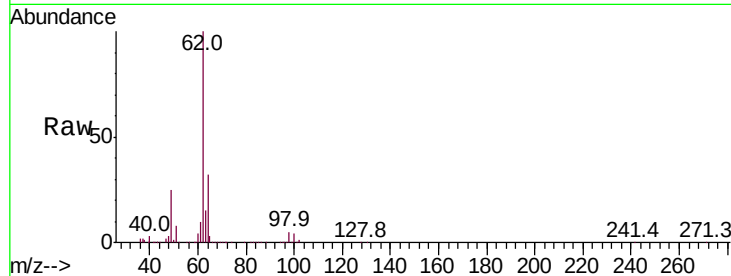
Ion 50.10 (49.80 to 50.80): VL0





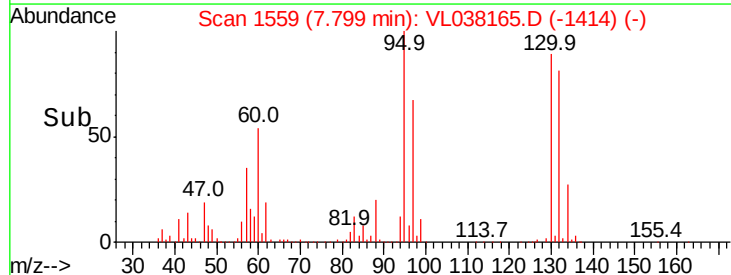
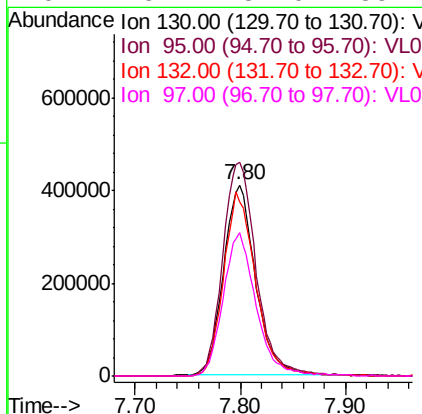
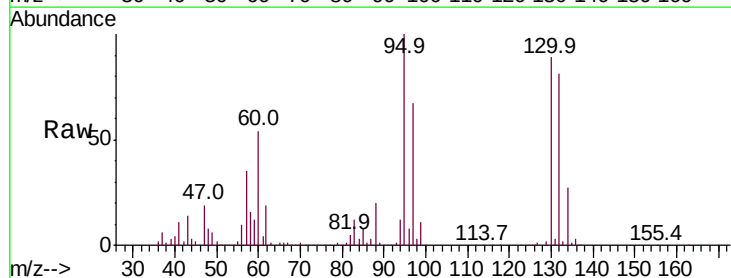
#37
 1,2-Dichloroethane
 Concen: 9.771 ppbv
 RT: 6.27
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 14:08

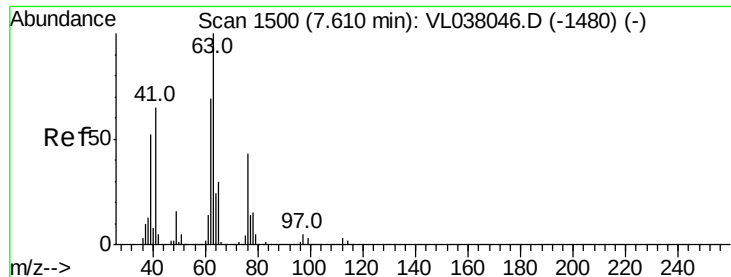
Tot Ion: 62 Resp: 1359212
 Ion Ratio Lower Upper
 62 100
 98 6.3 5.8 8.6



#38
 Trichloroethene
 Concen: 7.925 ppbv
 RT: 7.80 min Scan# 1559
 Delta R.T. -0.03 min
 Lab File: VL038165.D
 Acq: 14 Dec 2021 14:08

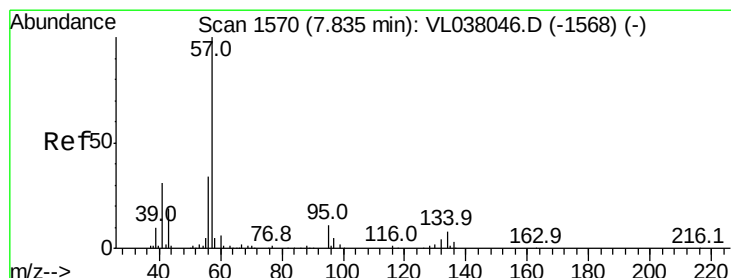
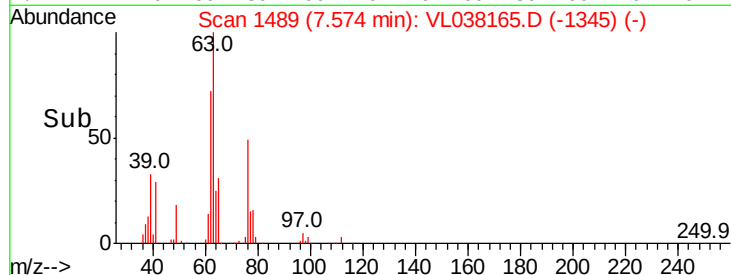
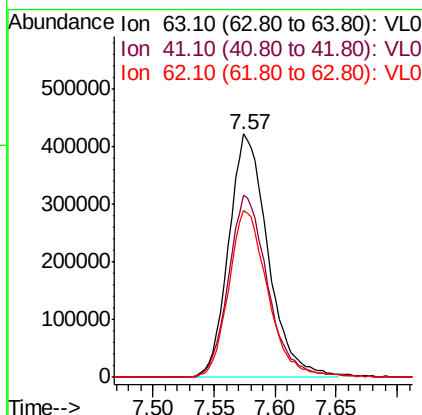
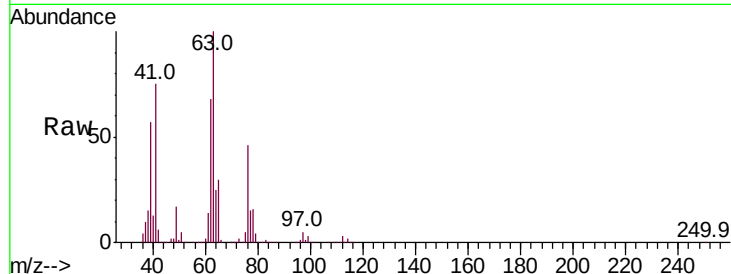
Tgt Ion:130 Resp: 861061
 Ion Ratio Lower Upper
 130 100
 95 112.3 89.4 134.2
 132 91.4 78.2 117.2
 97 75.7 57.0 85.4





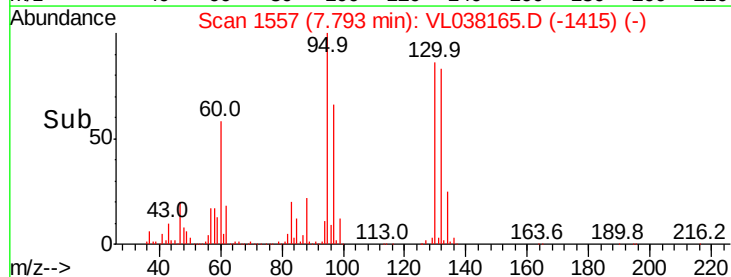
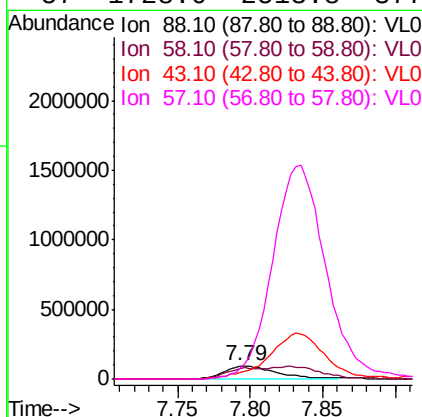
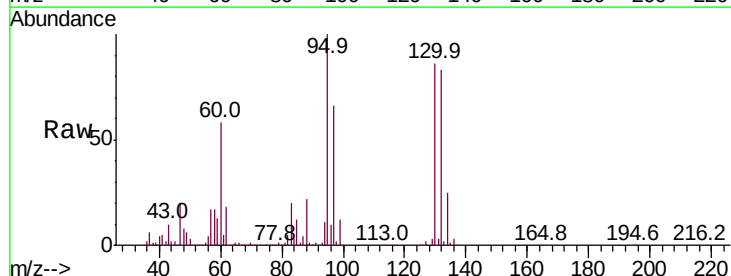
#39
 1,2-Dichloropropane
 Concen: 8.500 ppbv
 RT: 7.57 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 14 Dec 2021 14:08

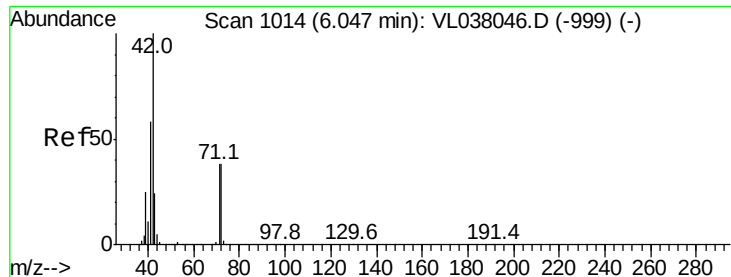
Tot Ion	Ratio	Lower	Upper
63	100		
41	74.7	52.3	78.5
62	68.2	55.1	82.7



#40
 1,4-Dioxane
 Concen: 7.957 ppbv
 RT: 7.79 min Scan# 1557
 Delta R.T.: -0.04 min
 Lab File: VL038165.D
 Acq: 14 Dec 2021 14:08

Tgt Ion	Ratio	Lower	Upper
88	100		
58	160.5	229.2	343.8#
43	396.1	553.3	829.9#
57	1728.0	2513.8	3770.8#





#41

Tetrahydrofuran

Concen: 8.286 ppbv

RT: 6.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 14:08

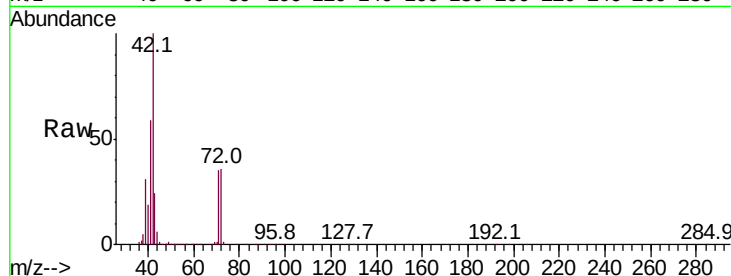
Tot Ion: 42 Resp: 598915

Ion Ratio Lower Upper

42 100

72 36.5 31.7 47.5

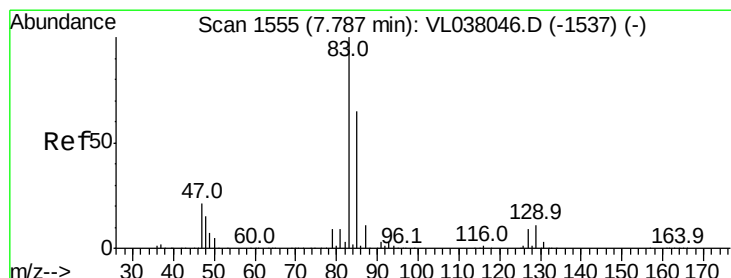
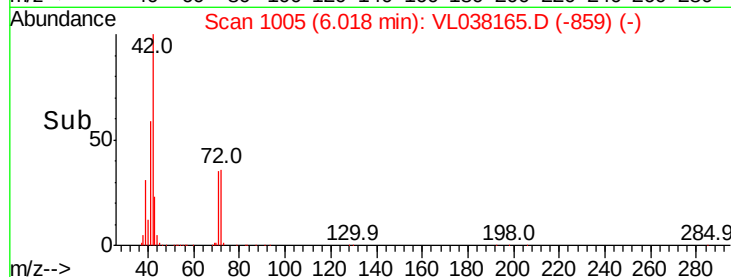
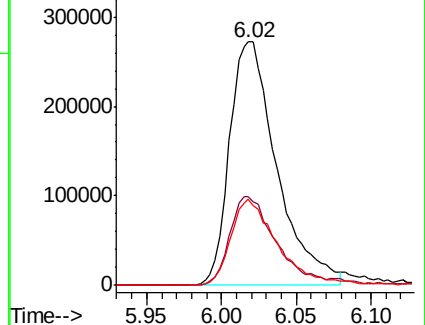
71 35.6 30.6 46.0



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: 9.704 ppbv

RT: 7.75 min Scan# 1545

Delta R.T. -0.03 min

Lab File: VL038165.D

Acq: 14 Dec 2021 14:08

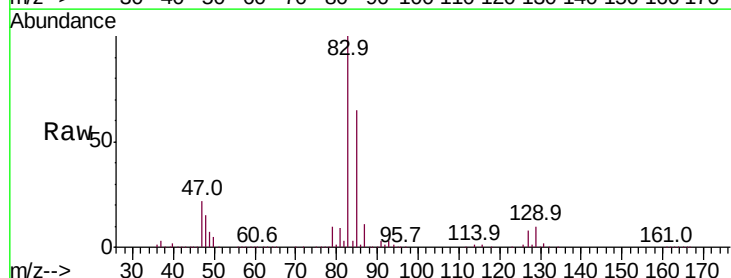
Tgt Ion: 83 Resp: 2052193

Ion Ratio Lower Upper

83 100

85 65.0 51.9 77.9

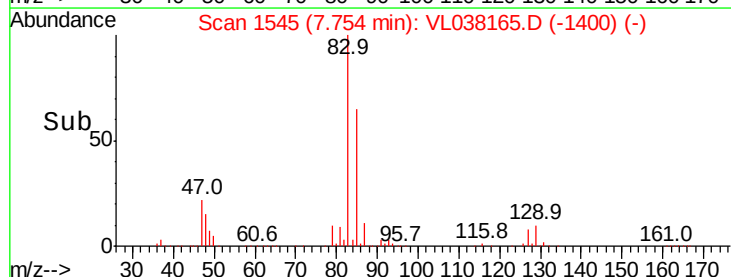
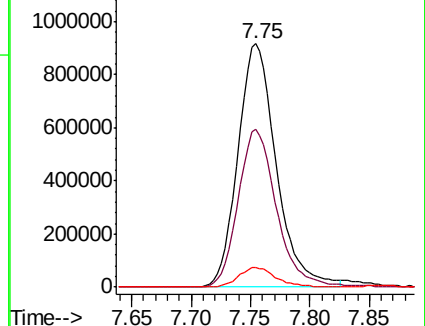
127 7.9 6.8 10.2

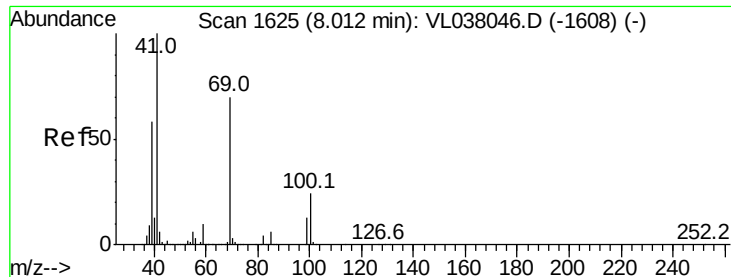


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 8.984 ppbv

RT: 7.98 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 14 Dec 2021 14:08

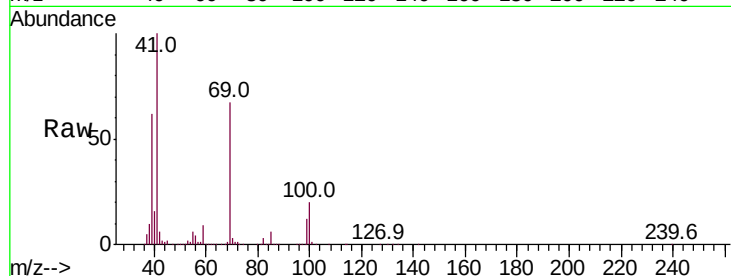
Tot Ion: 69 Resp: 885355

Ion Ratio Lower Upper

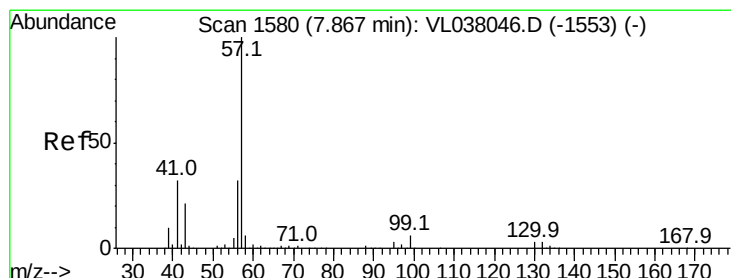
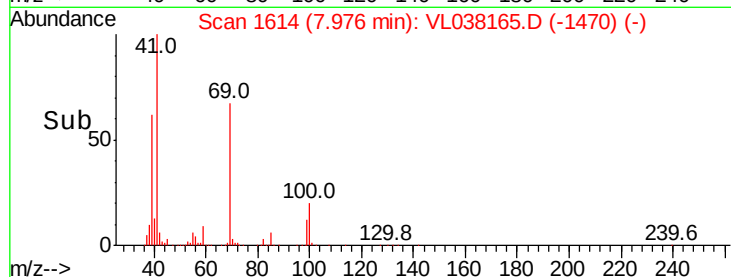
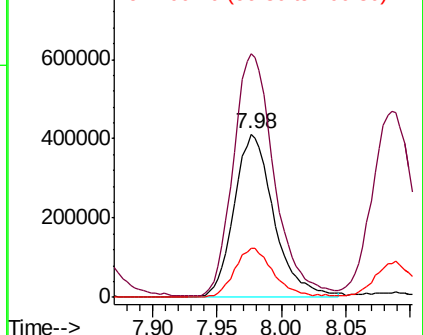
69 100

41 154.4 116.7 175.1

100 29.8 27.3 40.9



Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 8.175 ppbv

RT: 7.83 min Scan# 1570

Delta R.T. -0.03 min

Lab File: VL038165.D

Acq: 14 Dec 2021 14:08

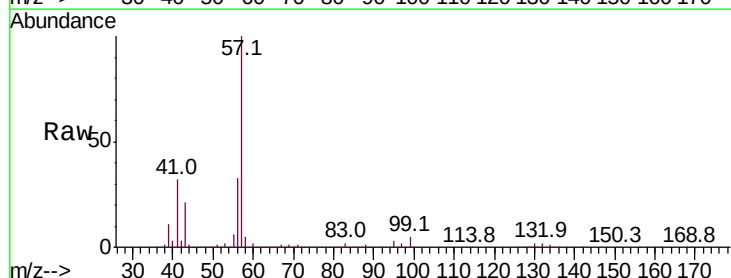
Tgt Ion: 57 Resp: 3939412

Ion Ratio Lower Upper

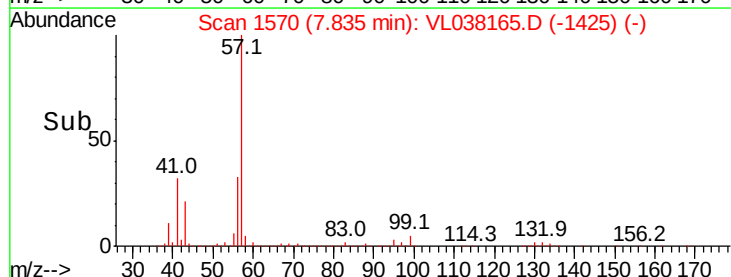
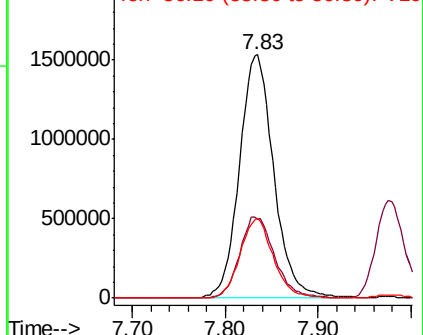
57 100

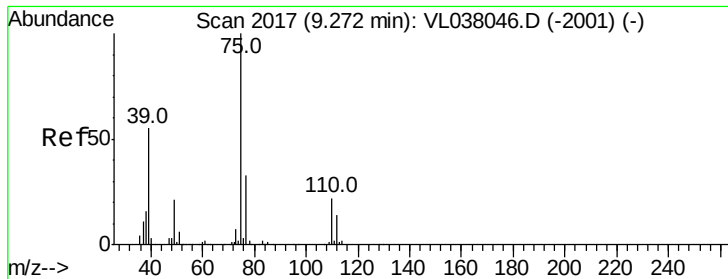
41 34.0 25.8 38.6

56 31.8 25.6 38.4



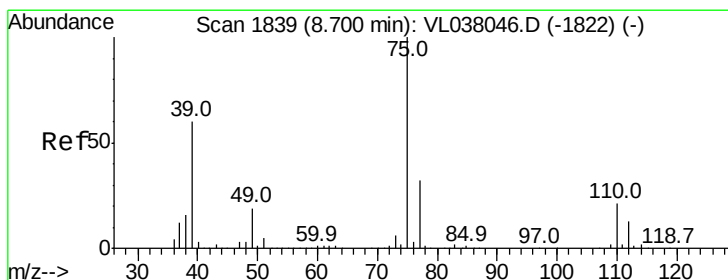
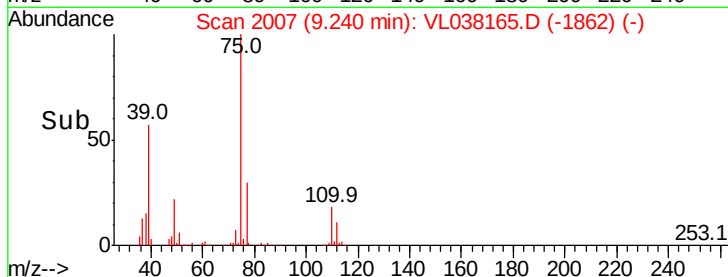
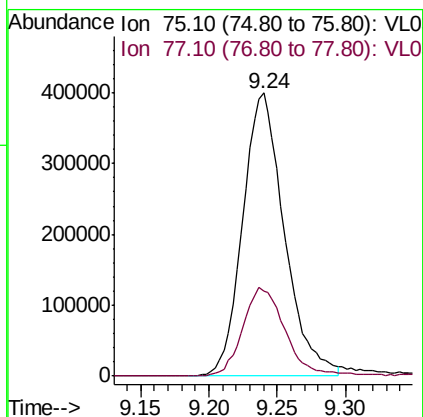
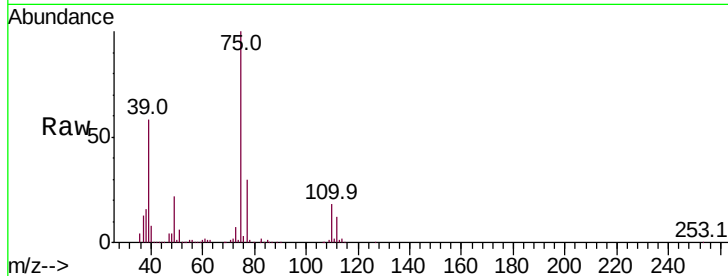
Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





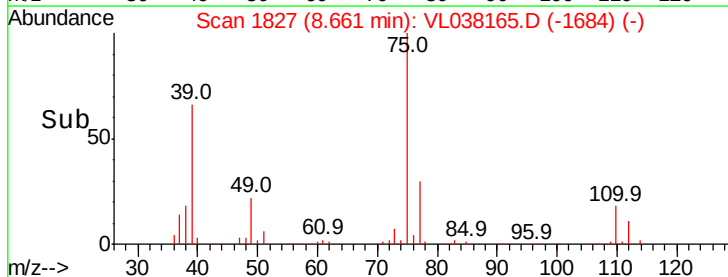
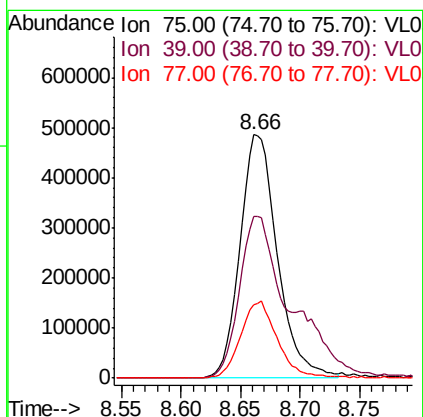
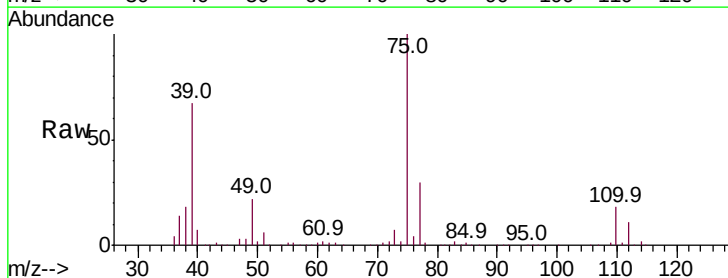
#45
 t-1,3-Dichloropropene
 Concen: 10.741 ppbv
 RT: 9.24
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 14 Dec 2021 14:08

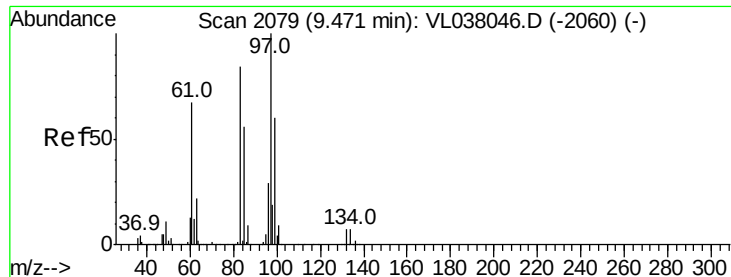
Tot Ion: 75 Resp: 849029
 Ion Ratio Lower Upper
 75 100
 77 30.2 26.2 39.4



#46
 cis-1,3-Dichloropropene
 Concen: 9.890 ppbv
 RT: 8.66 min Scan# 1827
 Delta R.T. -0.04 min
 Lab File: VL038165.D
 Acq: 14 Dec 2021 14:08

Tgt Ion: 75 Resp: 1057398
 Ion Ratio Lower Upper
 75 100
 39 66.6 47.8 71.8
 77 30.3 25.5 38.3





#47

1,1,2-Trichloroethane

Concen: 8.159 ppbv

RT: 9.44 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 14:08

Tot Ion: 97 Resp: 944113

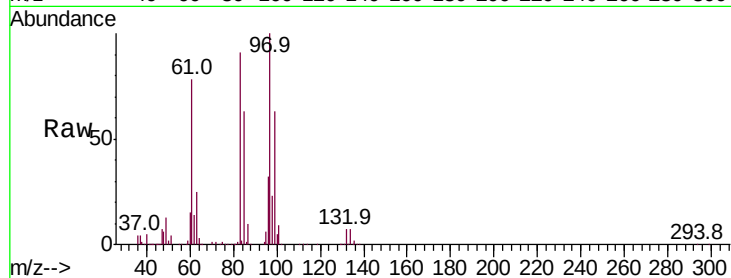
Ion Ratio Lower Upper

97 100

83 90.6 66.8 100.2

85 62.5 44.9 67.3

99 62.7 48.0 72.0

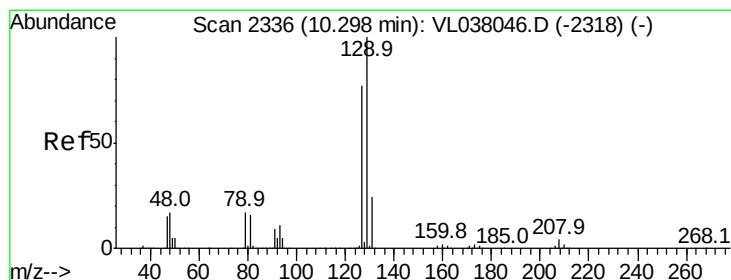
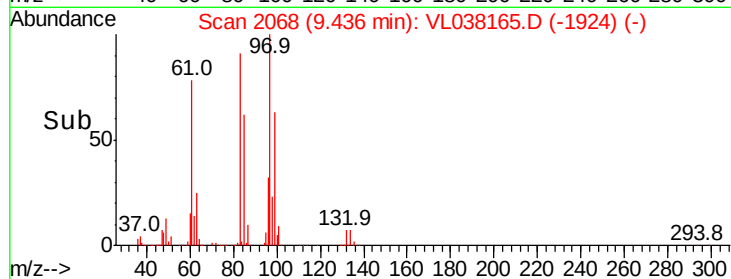
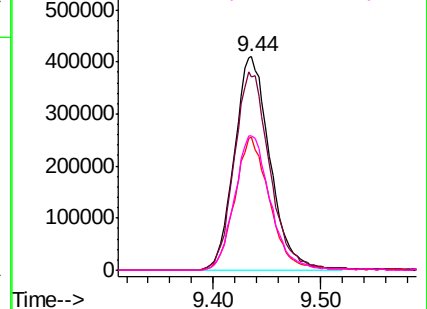


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 9.662 ppbv

RT: 10.27 min Scan# 2326

Delta R.T. -0.03 min

Lab File: VL038165.D

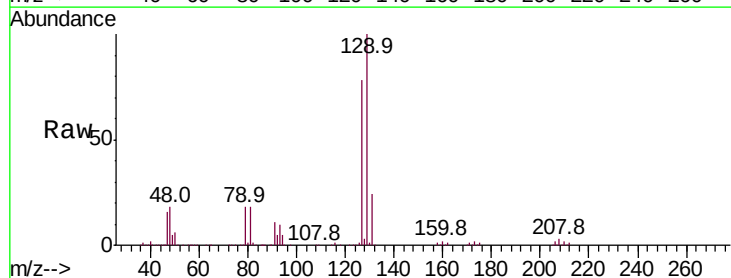
Acq: 14 Dec 2021 14:08

Tgt Ion: 129 Resp: 1702663

Ion Ratio Lower Upper

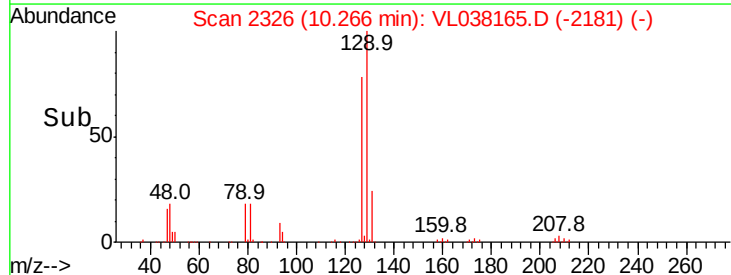
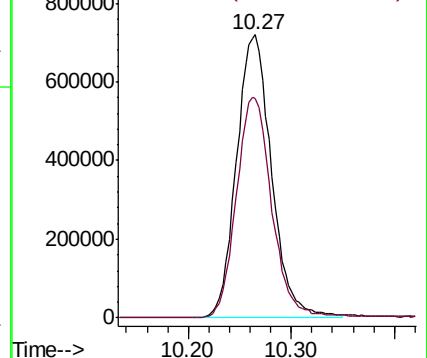
129 100

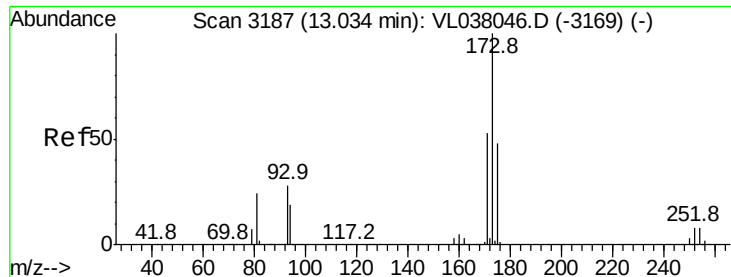
127 80.3 39.4 118.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.628 ppbv

RT: 13.00

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 14:08

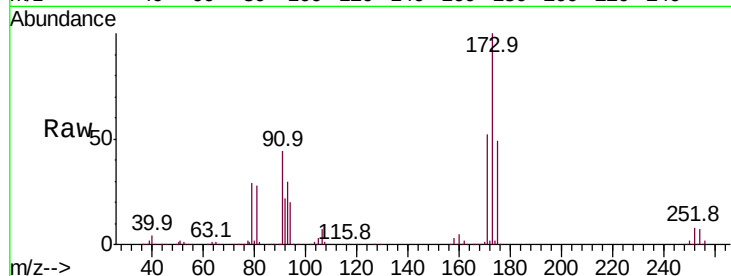
Tot Ion:173 Resp: 1339984

Ion	Ratio	Lower	Upper
173	100		
175	50.9	42.5	63.7
171	53.1	44.0	66.0

173 100

175 50.9 42.5 63.7

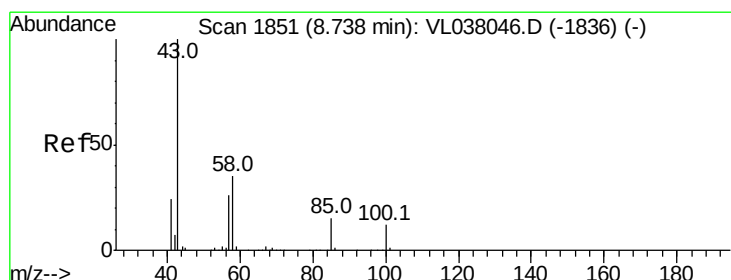
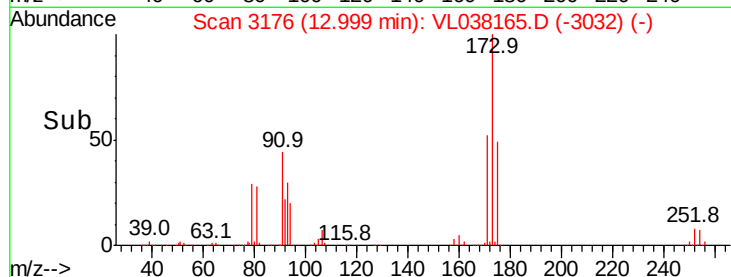
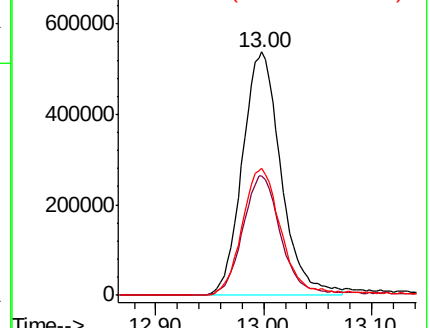
171 53.1 44.0 66.0



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.639 ppbv

RT: 8.70 min Scan# 1840

Delta R.T. -0.04 min

Lab File: VL038165.D

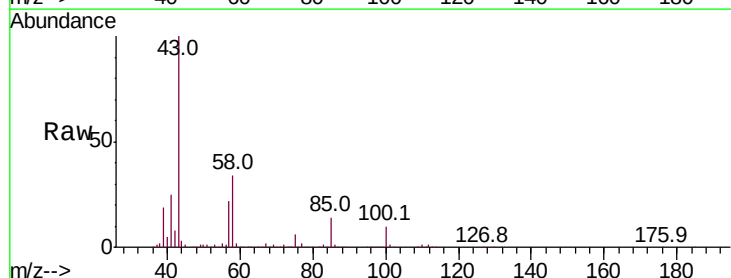
Acq: 14 Dec 2021 14:08

Tgt Ion: 43 Resp: 1704416

Ion	Ratio	Lower	Upper
43	100		
58	34.5	29.4	44.2

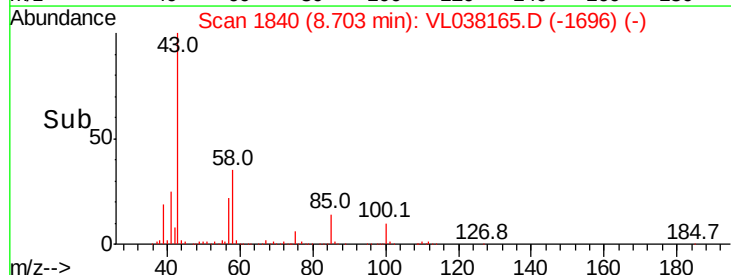
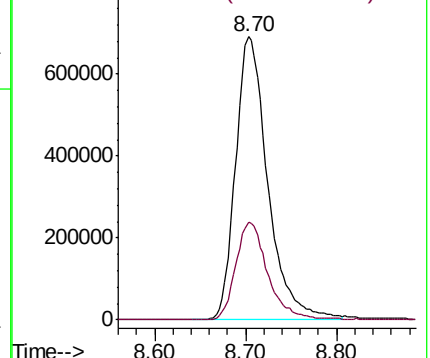
43 100

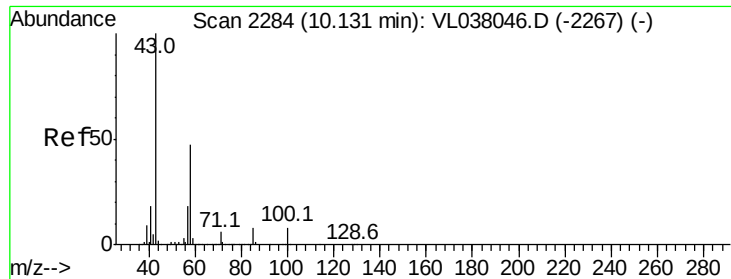
58 34.5 29.4 44.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

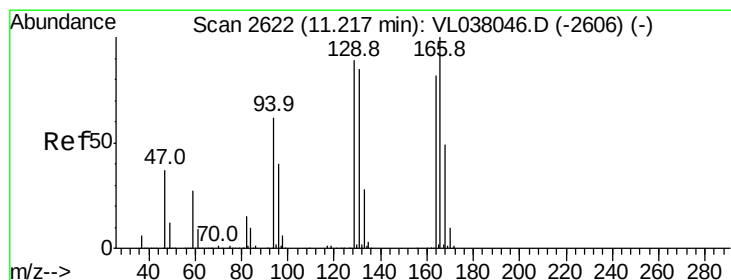
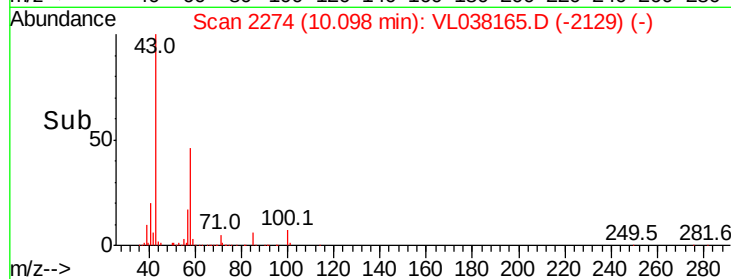
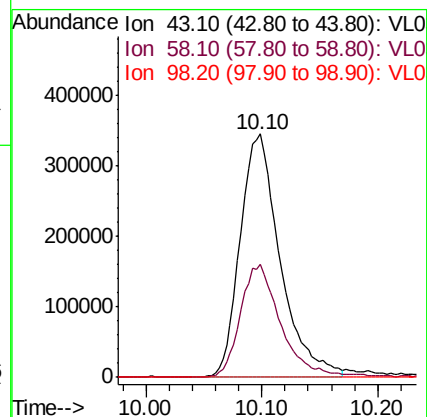
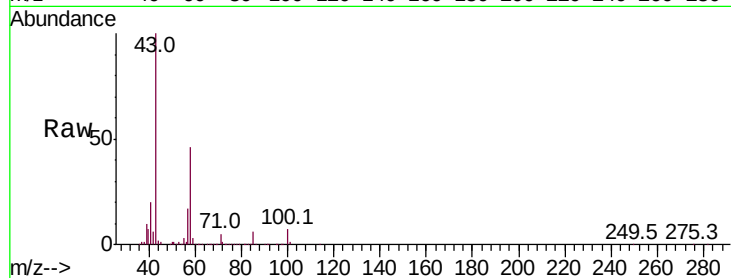
Ion 58.10 (57.80 to 58.80): VL0





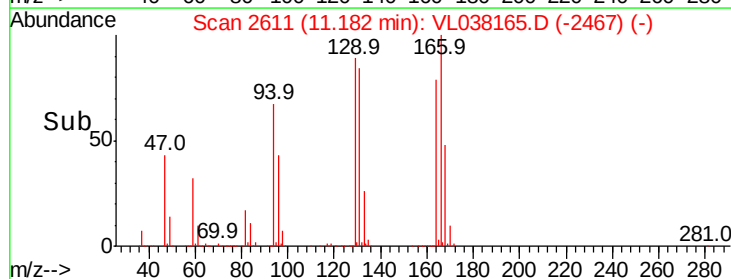
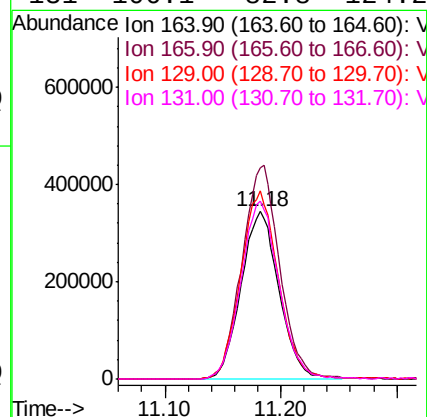
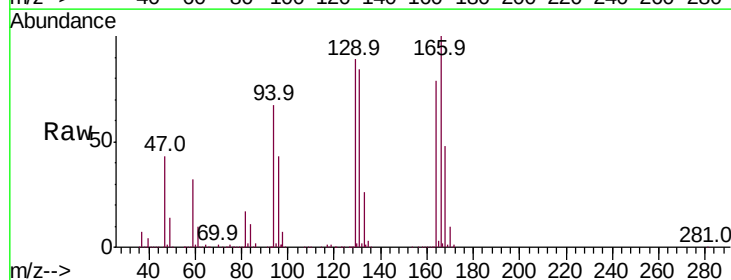
#51
 2-Hexanone
 Concen: 9.955 ppbv
 RT: 10.10 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 14:08

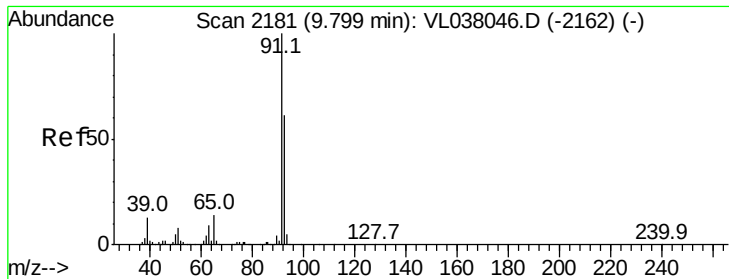
Tot Ion	43	Resp	828187
Ion Ratio	100		
Lower	41.1		
Upper	61.7		
98	0.3	0.1	0.1#



#52
 Tetrachloroethene
 Concen: 7.324 ppbv
 RT: 11.18 min Scan# 2611
 Delta R.T. -0.04 min
 Lab File: VL038165.D
 Acq: 14 Dec 2021 14:08

Tgt Ion	164	Resp	780601
Ion Ratio	100		
Lower	97.2		
Upper	145.8		
166	126.0	86.9	130.3
129	112.4	82.8	124.2
131	106.1		





#53

Toluene

Concen: 8.079 ppbv

RT: 9.77

Delta R.T. MSVOA_L

Lab File:

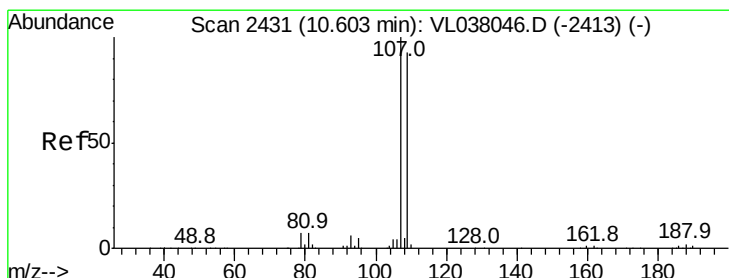
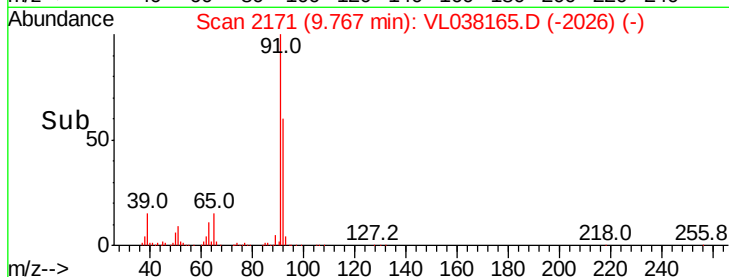
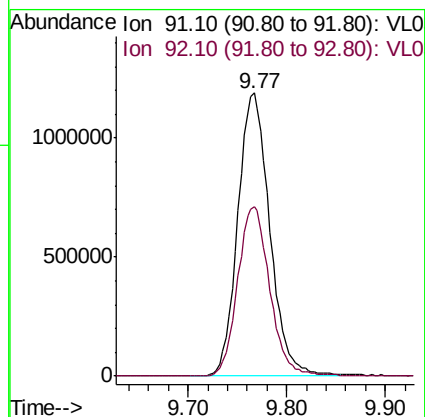
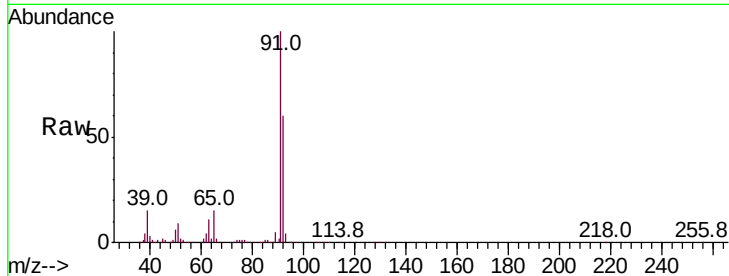
Acq: 14 Dec 2021 14:08

Tot Ion: 91 Resp: 2677335

Ion Ratio Lower Upper

91 100

92 60.2 49.7 74.5



#54

1,2-Dibromoethane

Concen: 8.688 ppbv

RT: 10.57 min Scan# 2420

Delta R.T. -0.04 min

Lab File: VL038165.D

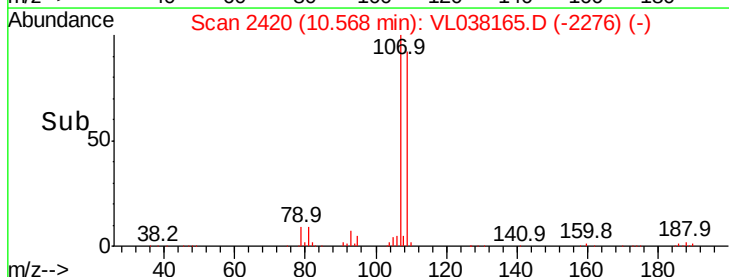
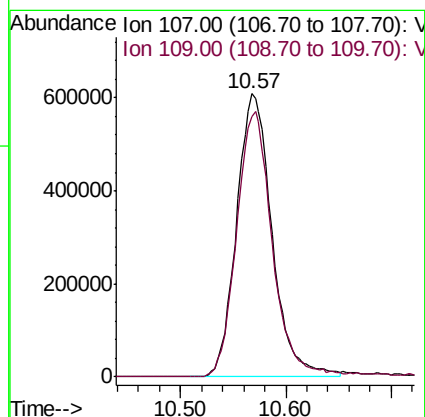
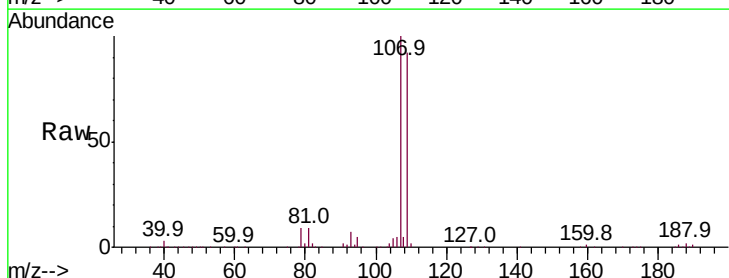
Acq: 14 Dec 2021 14:08

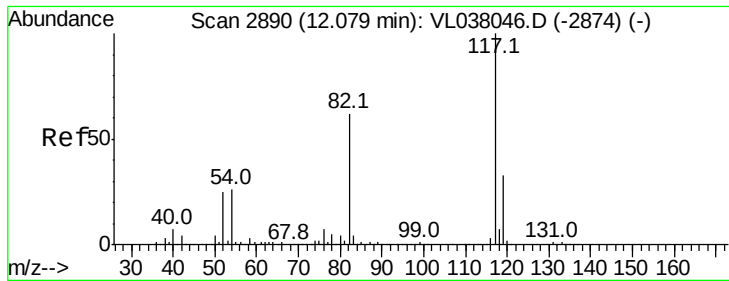
Tgt Ion: 107 Resp: 1420158

Ion Ratio Lower Upper

107 100

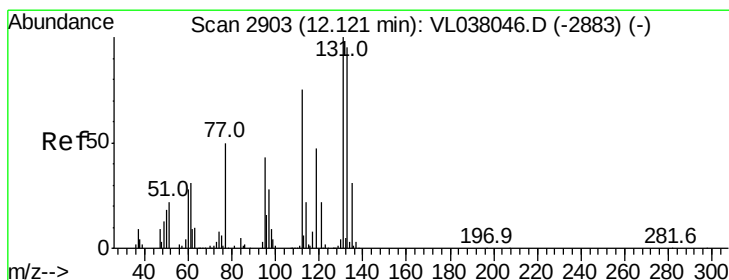
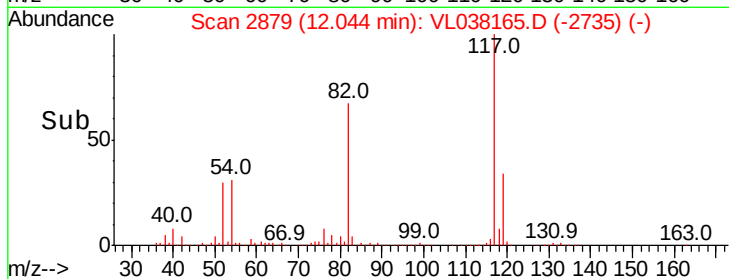
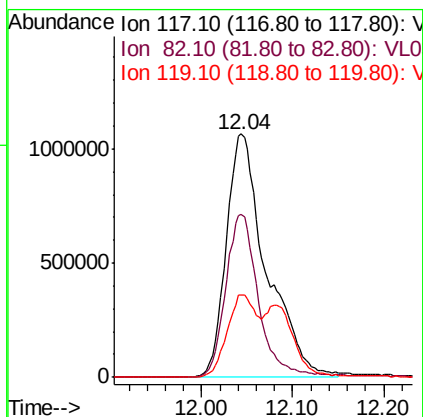
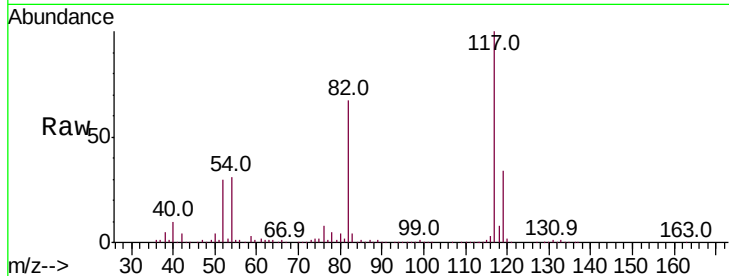
109 92.1 74.6 111.8





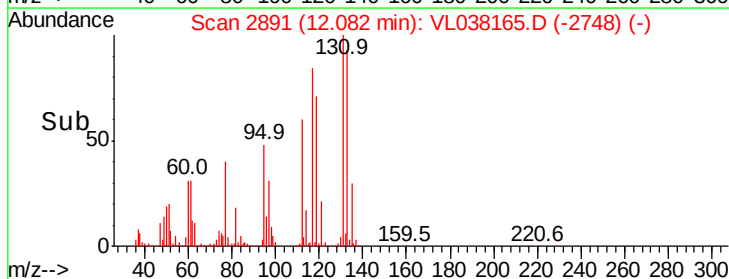
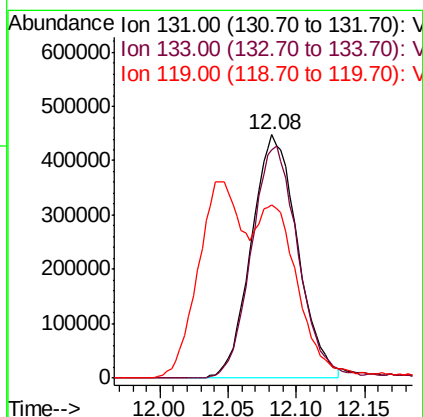
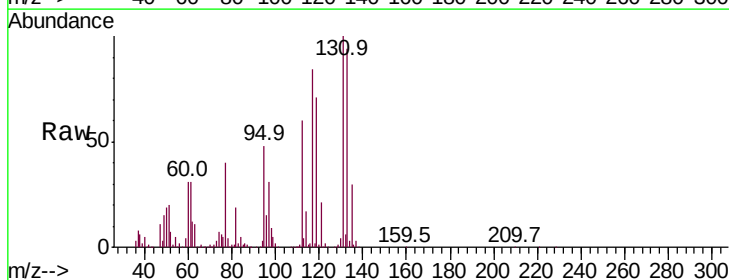
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.04 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Dec 2021 14:08

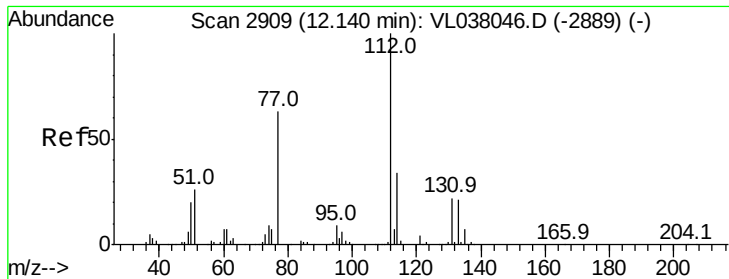
Tot Ion:117 Resp: 3259503
Ion Ratio Lower Upper
117 100
82 56.5 52.8 79.2
119 25.7 26.8 40.2#



#56
1,1,1,2-Tetrachloroethane
Concen: 7.108 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.04 min
Lab File: VL038165.D
Acq: 14 Dec 2021 14:08

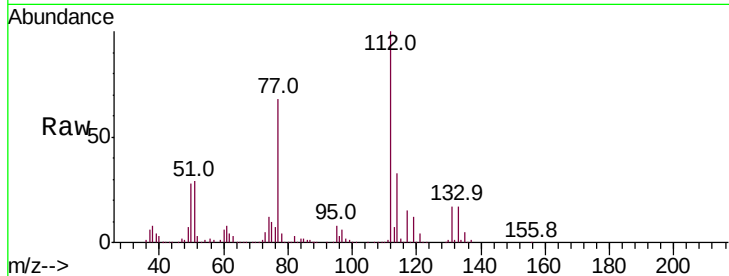
Tgt Ion:131 Resp: 1051770
Ion Ratio Lower Upper
131 100
133 99.7 78.8 118.2
119 61.7 56.3 84.5



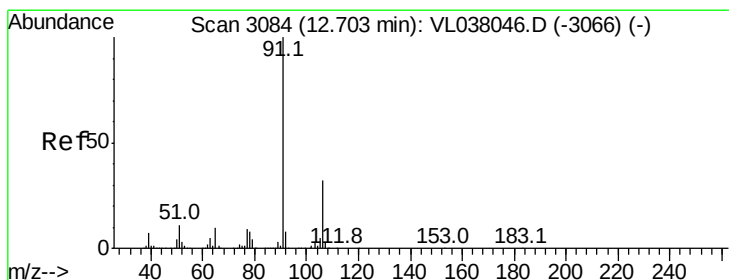
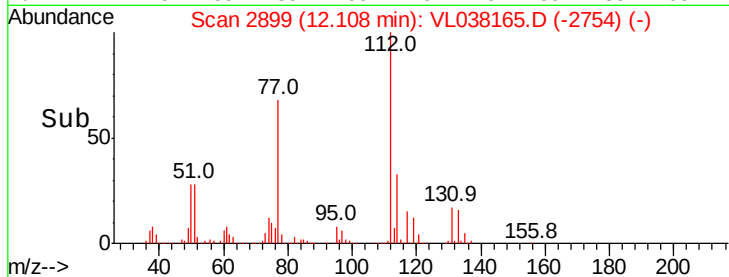
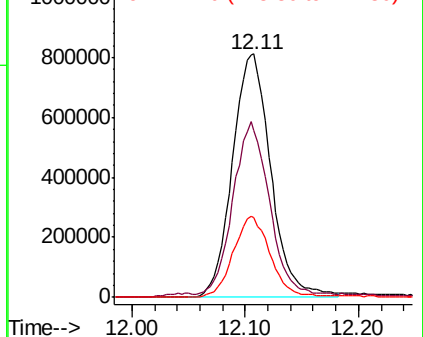


#57
Chlorobenzene
Concen: 6.563 ppbv
RT: 12.11 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Dec 2021 14:08

Tot Ion: 112 Resp: 1917438
Ion Ratio Lower Upper
112 100
77 66.9 50.3 75.5
114 32.7 30.7 37.5

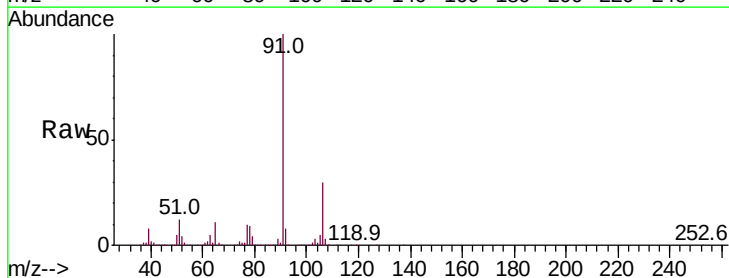


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

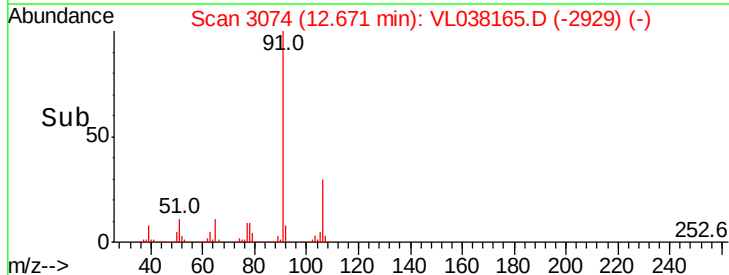
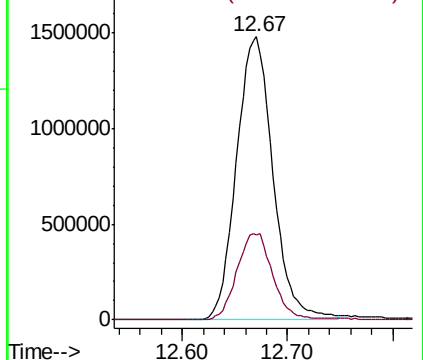


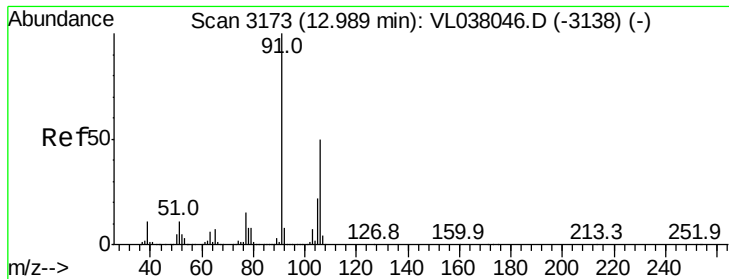
#58
Ethyl Benzene
Concen: 6.596 ppbv
RT: 12.67 min Scan# 3074
Delta R.T. -0.03 min
Lab File: VL038165.D
Acq: 14 Dec 2021 14:08

Tgt Ion: 91 Resp: 3553461
Ion Ratio Lower Upper
91 100
106 30.2 25.8 38.6



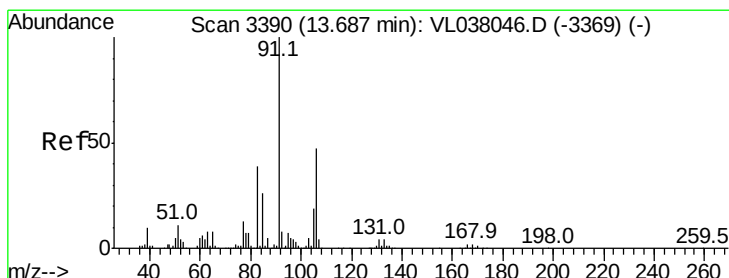
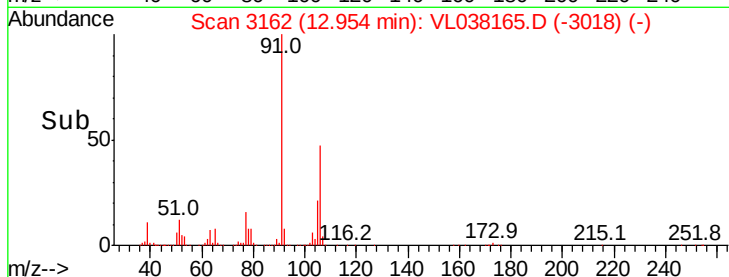
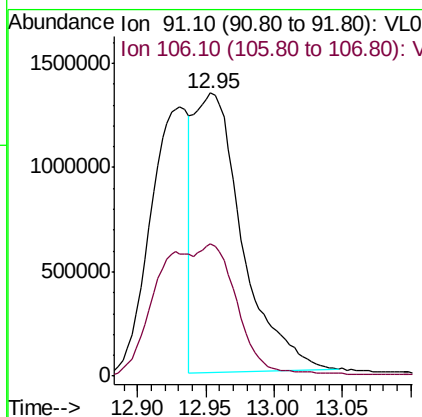
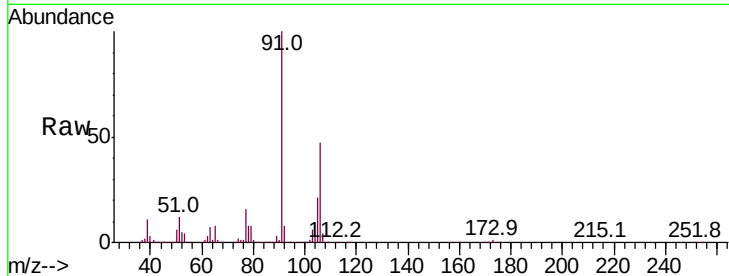
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





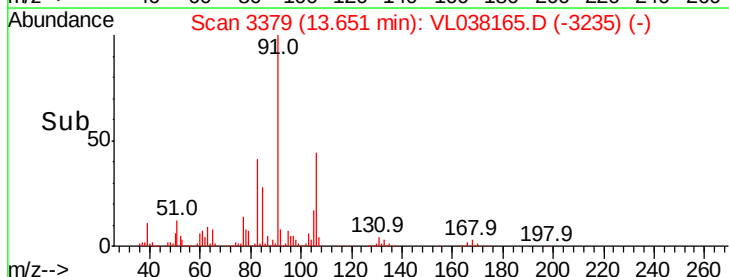
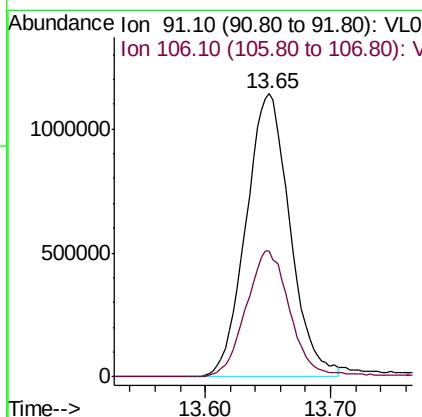
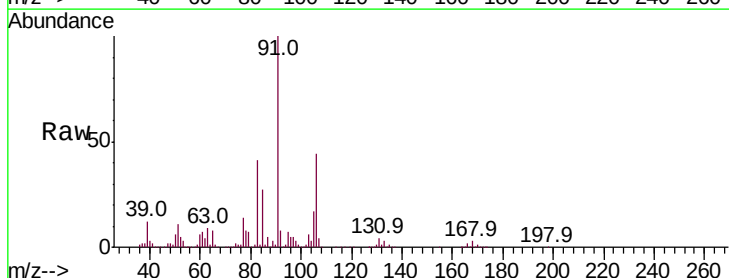
#59
m/p-Xylene
Concen: 7.232 ppbv
RT: 12.95 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 Dec 2021 14:08

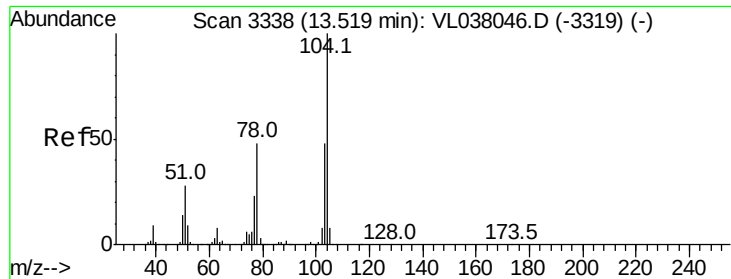
Tot Ion: 91 Resp: 3279576
Ion Ratio Lower Upper
91 100
106 79.5 38.1 57.1#



#60
o-Xylene
Concen: 6.602 ppbv
RT: 13.65 min Scan# 3379
Delta R.T. -0.04 min
Lab File: VL038165.D
Acq: 14 Dec 2021 14:08

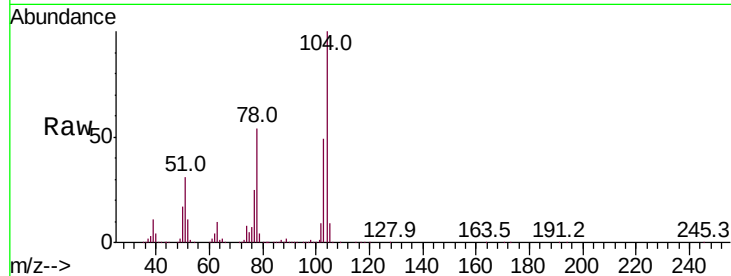
Tgt Ion: 91 Resp: 2777594
Ion Ratio Lower Upper
91 100
106 45.9 24.2 72.6



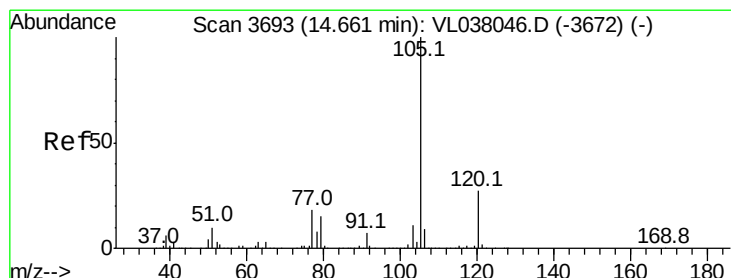
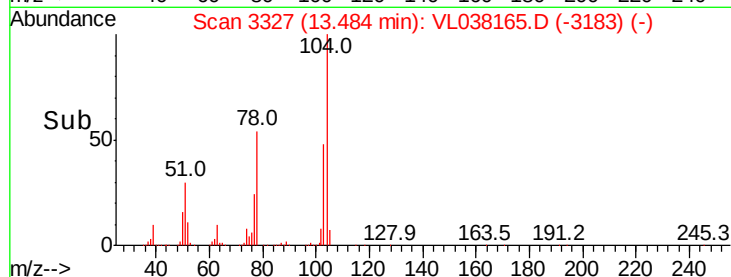
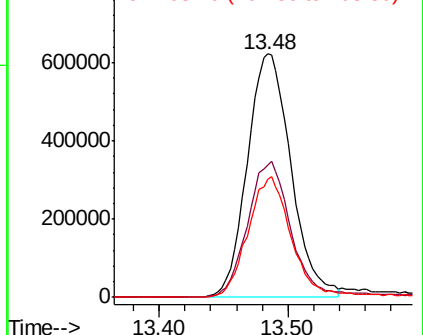


#61
Stvrene
Concen: 6.524 ppbv
RT: 13.48 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 14:08

Tot Ion:104 Resp: 1471541
Ion Ratio Lower Upper
104 100
78 56.4 39.8 59.6
103 49.8 38.2 57.2

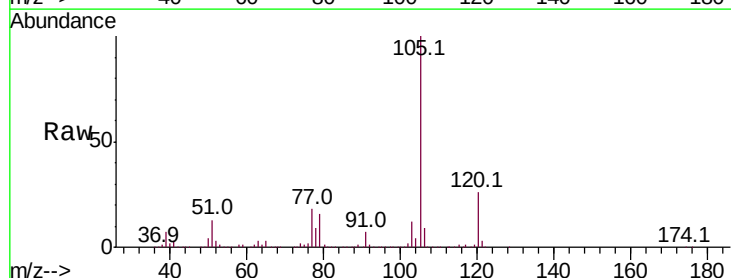


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): V
Ion 103.10 (102.80 to 103.80): V

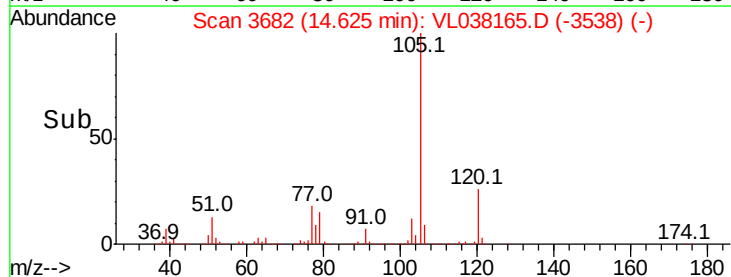
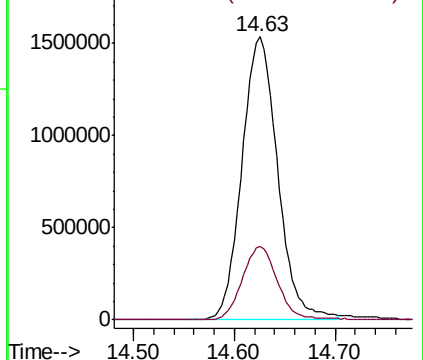


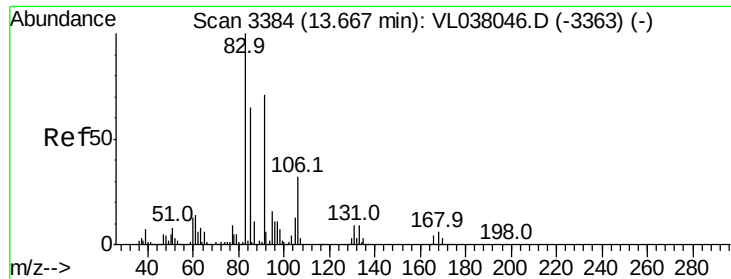
#62
Isopropylbenzene
Concen: 6.315 ppbv
RT: 14.63 min Scan# 3682
Delta R.T. -0.04 min
Lab File: VL038165.D
Acq: 14 Dec 2021 14:08

Tgt Ion:105 Resp: 3771285
Ion Ratio Lower Upper
105 100
120 26.0 21.8 32.6



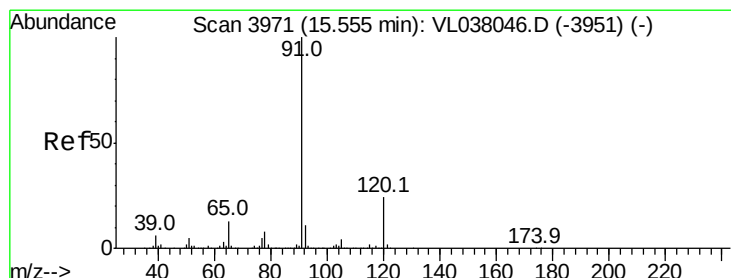
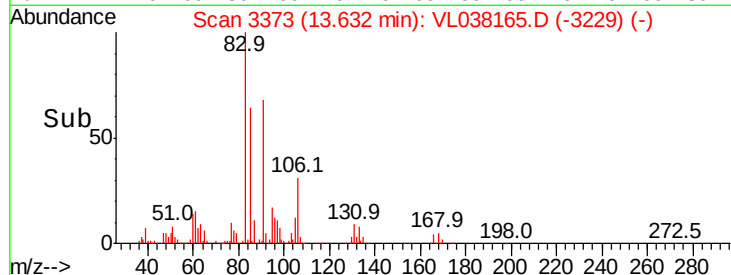
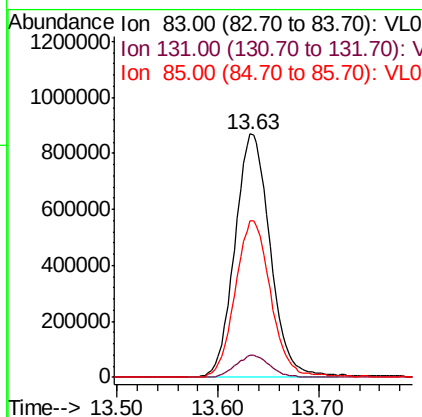
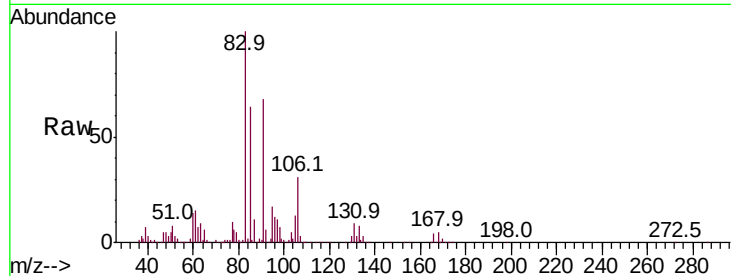
Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





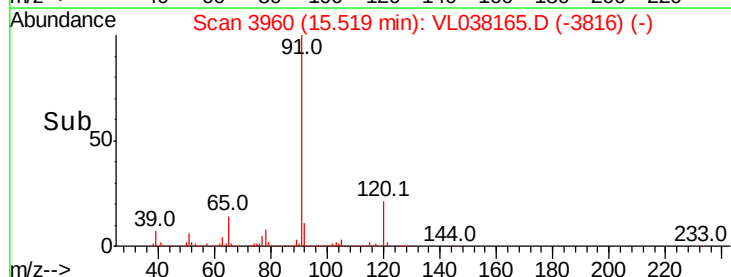
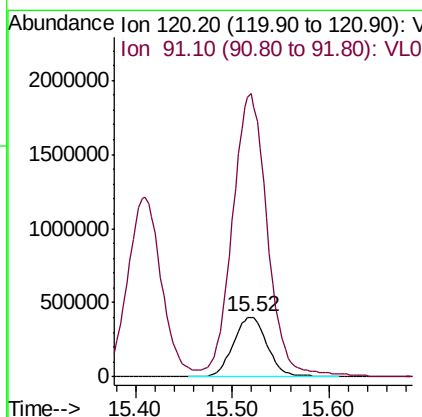
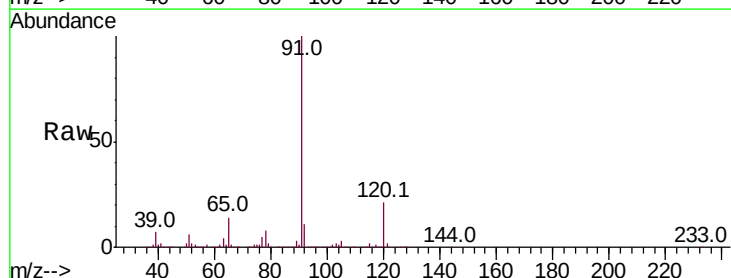
#63
 1,1,2,2-Tetrachloroethane
 Concen: 6.761 ppbv
 RT: 13.63
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 14 Dec 2021 14:08

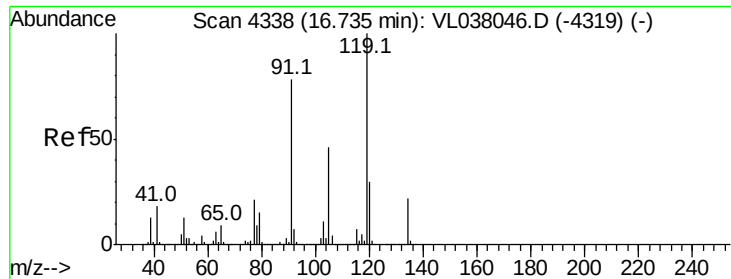
Tot Ion: 83 Resp: 2112698
 Ion Ratio Lower Upper
 83 100
 131 9.1 4.9 14.7
 85 65.4 33.4 100.1



#64
 n-propylbenzene
 Concen: 6.502 ppbv
 RT: 15.52 min Scan# 3960
 Delta R.T. -0.04 min
 Lab File: VL038165.D
 Acq: 14 Dec 2021 14:08

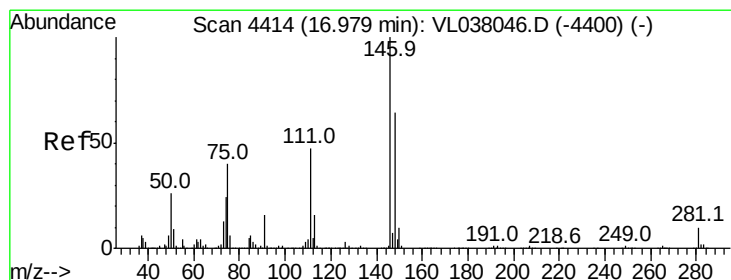
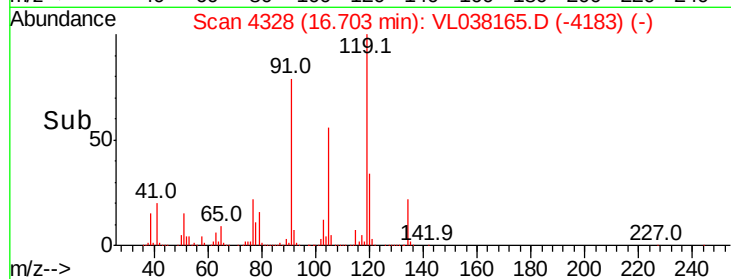
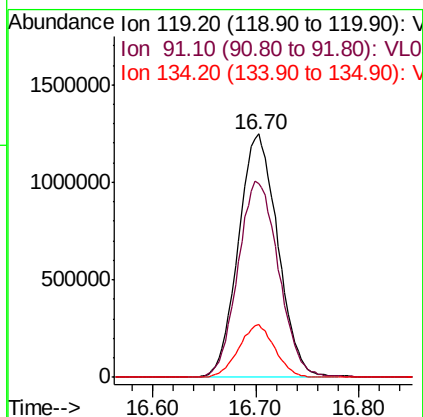
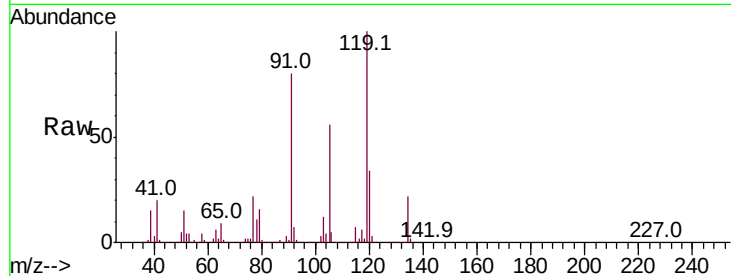
Tgt Ion:120 Resp: 989211
 Ion Ratio Lower Upper
 120 100
 91 486.1 371.7 557.5





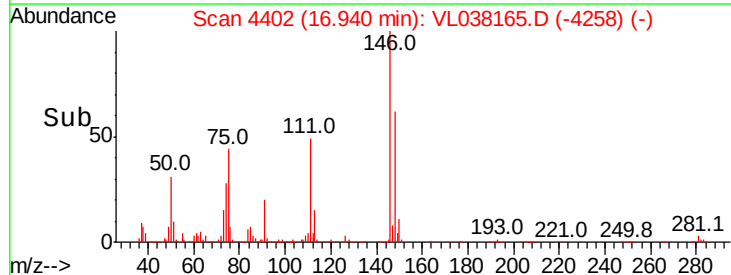
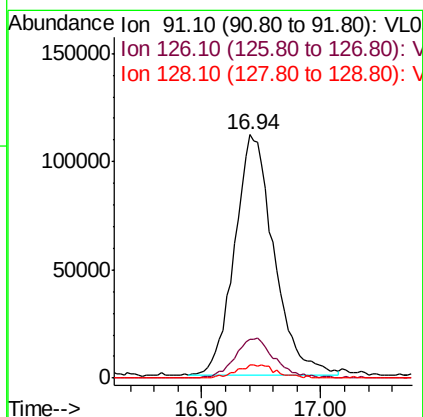
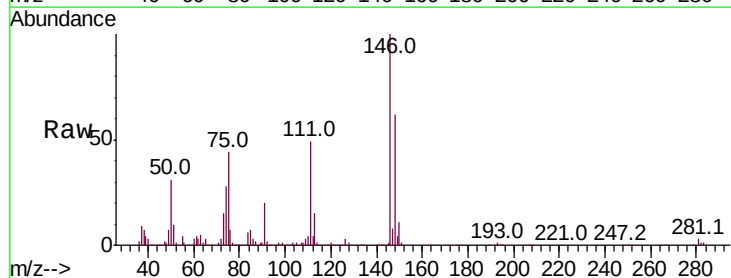
#65
 tert-Butylbenzene
 Concen: 6.299 ppbv
 RT: 16.70 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 14 Dec 2021 14:08

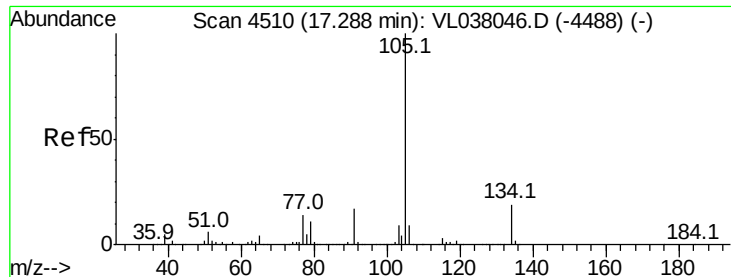
Tot Ion: 119 Resp: 3314233
 Ion Ratio Lower Upper
 119 100
 91 83.5 63.2 94.8
 134 20.0 16.1 24.1



#66
 Benzyl Chloride
 Concen: 9.514 ppbv
 RT: 16.94 min Scan# 4402
 Delta R.T.: -0.04 min
 Lab File: VL038165.D
 Acq: 14 Dec 2021 14:08

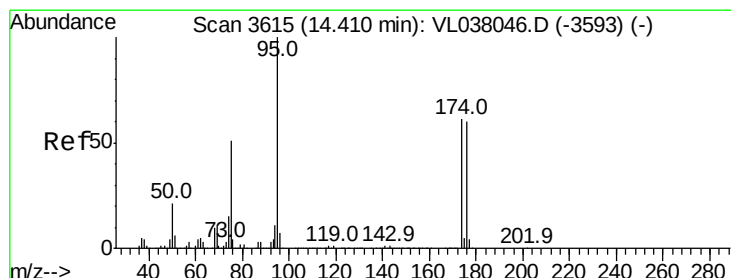
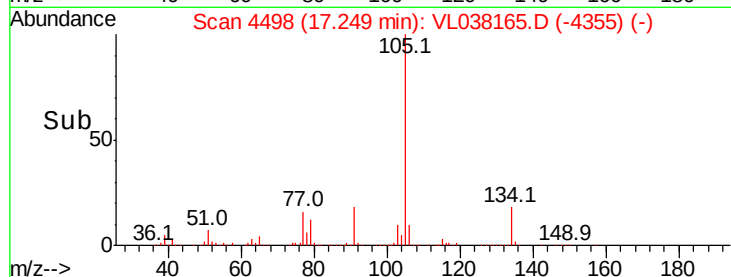
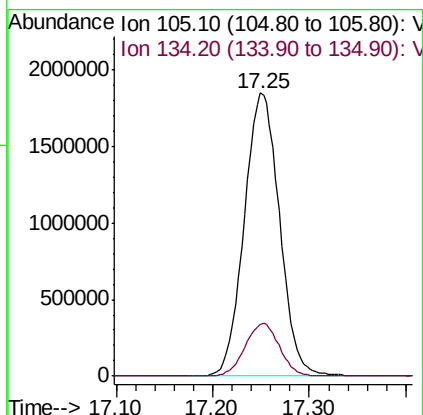
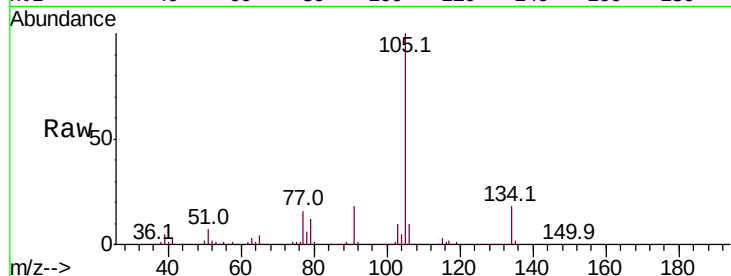
Tgt Ion: 91 Resp: 253694
 Ion Ratio Lower Upper
 91 100
 126 16.6 15.5 23.3
 128 5.8 5.6 8.4





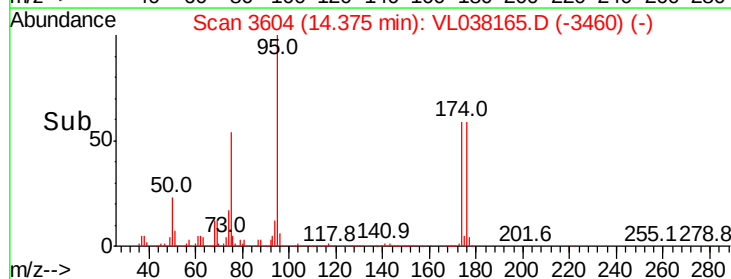
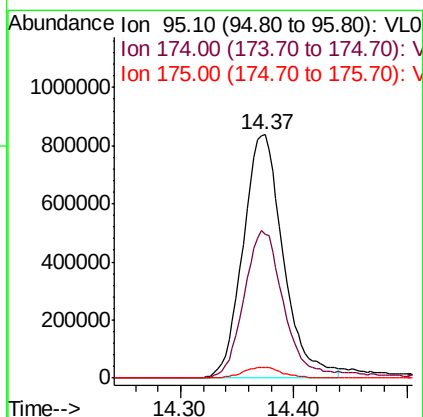
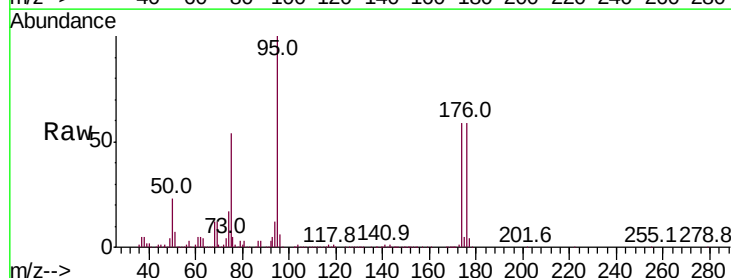
#67
 sec-Butylbenzene
 Concen: 6.377 ppbv
 RT: 17.25
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 14:08

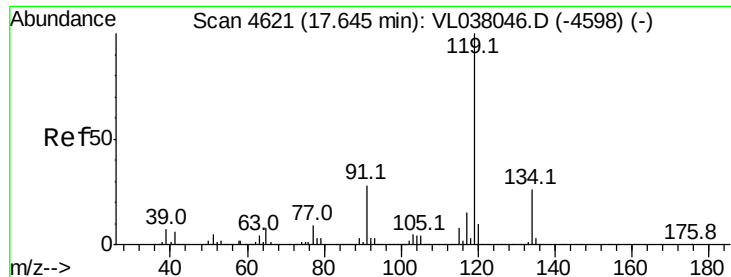
Tot Ion: 105 Resp: 4674636
 Ion Ratio Lower Upper
 105 100
 134 18.3 14.7 22.1



#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.817 ppbv
 RT: 14.37 min Scan# 3604
 Delta R.T. -0.04 min
 Lab File: VL038165.D
 Acq: 14 Dec 2021 14:08

Tgt Ion: 95 Resp: 2072992
 Ion Ratio Lower Upper
 95 100
 174 62.8 53.1 79.7
 175 4.6 4.0 6.0

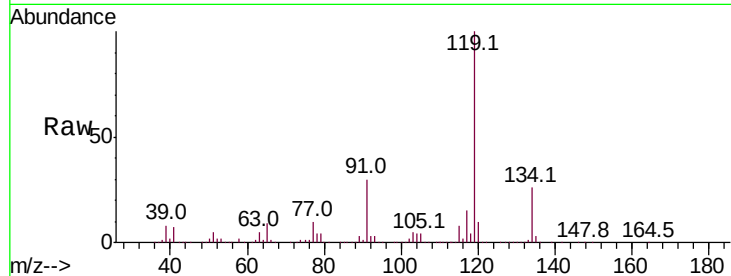




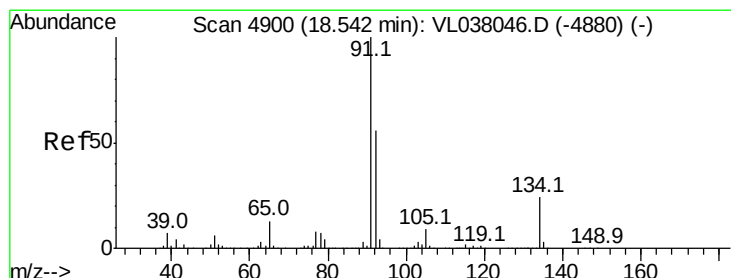
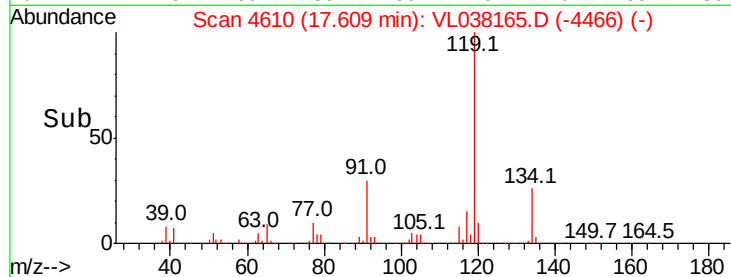
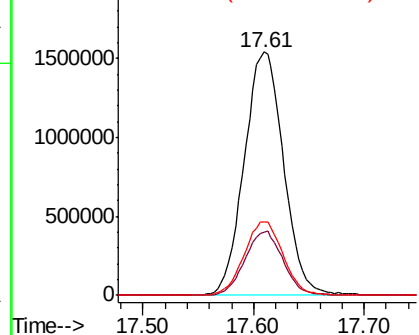
#69
 p-Isopropyltoluene
 Concen: 6.649 ppbv
 RT: 17.61 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 14:08

Tot Ion: 119 Resp: 3813060

Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.6	30.8
91	30.0	22.2	33.4



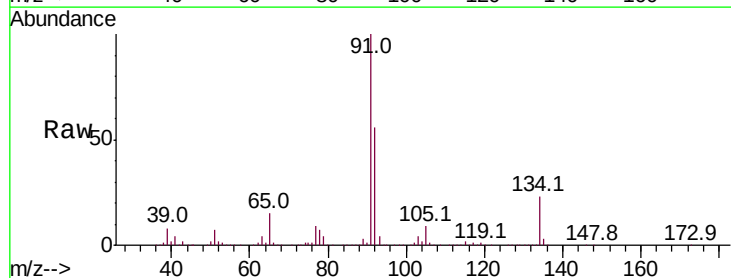
Abundance Ion 119.10 (118.80 to 119.80): VL0
 Ion 134.20 (133.90 to 134.90): VL0
 Ion 91.10 (90.80 to 91.80): VL0



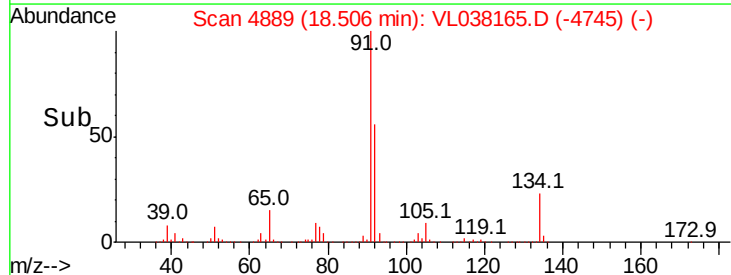
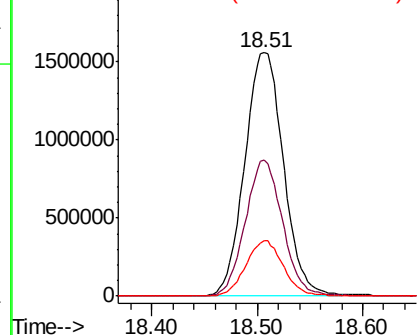
#70
 n-Butylbenzene
 Concen: 7.265 ppbv
 RT: 18.51 min Scan# 4889
 Delta R.T. -0.04 min
 Lab File: VL038165.D
 Acq: 14 Dec 2021 14:08

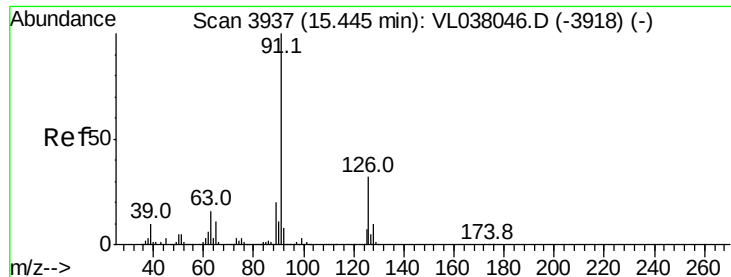
Tgt Ion: 91 Resp: 3983752

Ion	Ratio	Lower	Upper
91	100		
92	54.2	44.1	66.1
134	22.2	18.9	28.3



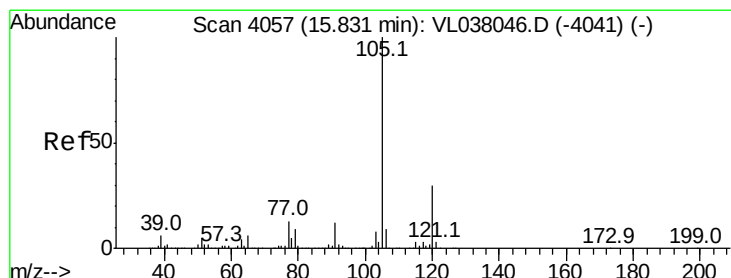
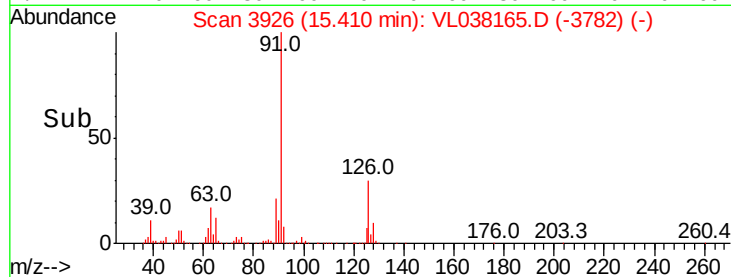
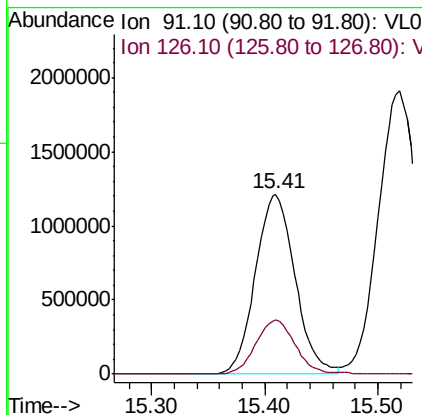
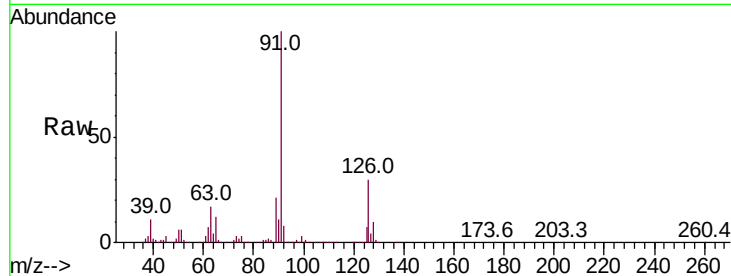
Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): VL0





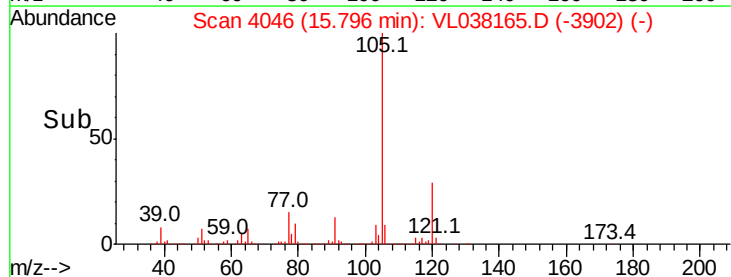
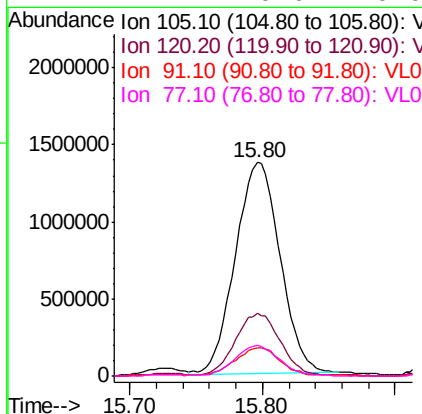
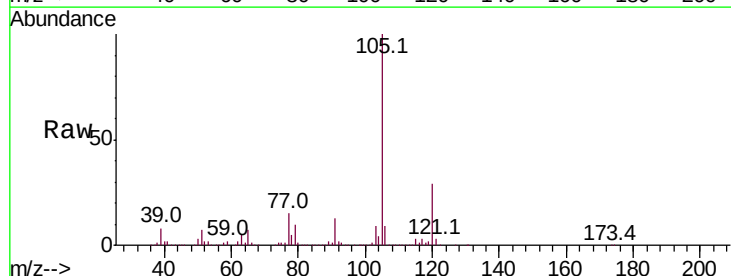
#71
 2-Chlorotoluene
 Concen: 6.754 ppbv
 RT: 15.41 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 14:08

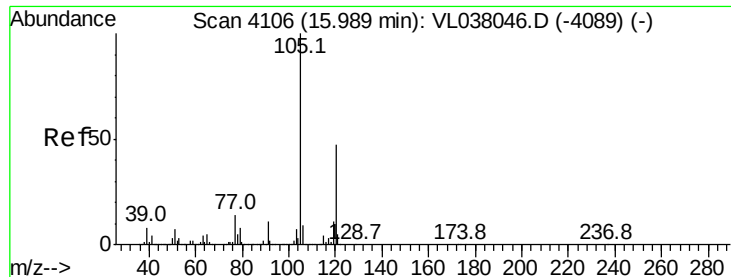
Tot Ion: 91 Resp: 2948974
 Ion Ratio Lower Upper
 91 100
 126 30.7 13.1 52.3



#72
 4-Ethyltoluene
 Concen: 6.588 ppbv
 RT: 15.80 min Scan# 4046
 Delta R.T. -0.04 min
 Lab File: VL038165.D
 Acq: 14 Dec 2021 14:08

Tgt Ion: 105 Resp: 3213342
 Ion Ratio Lower Upper
 105 100
 120 30.4 25.1 37.7
 91 13.4 9.7 14.5
 77 14.7 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 6.494 ppbv

RT: 15.95 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

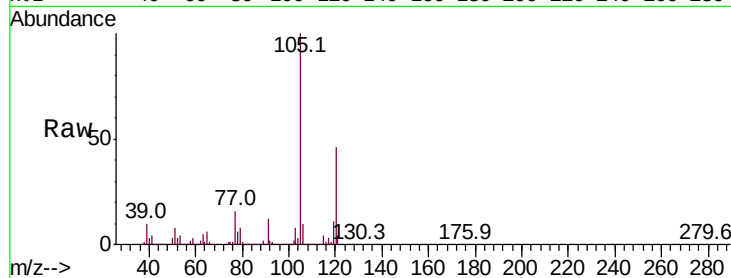
Acq: 14 Dec 2021 14:08

Tot Ion:105 Resp: 2893228

Ion Ratio Lower Upper

105 100

120 45.7 37.8 56.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

15.95

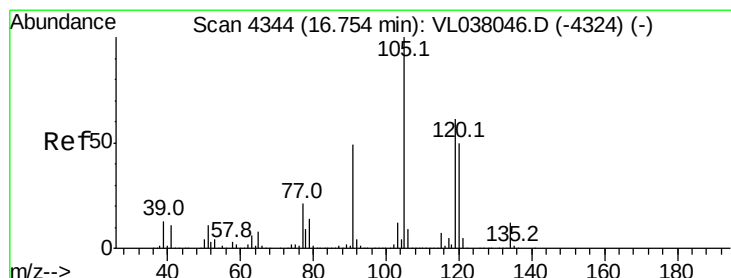
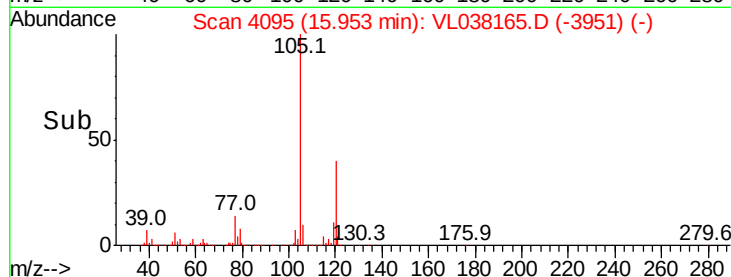
1000000

500000

0

Time-->

15.90 16.00



#74

1,2,4-Trimethylbenzene

Concen: 6.649 ppbv

RT: 16.72 min Scan# 4334

Delta R.T. -0.03 min

Lab File: VL038165.D

Acq: 14 Dec 2021 14:08

Tgt Ion:105 Resp: 3052639

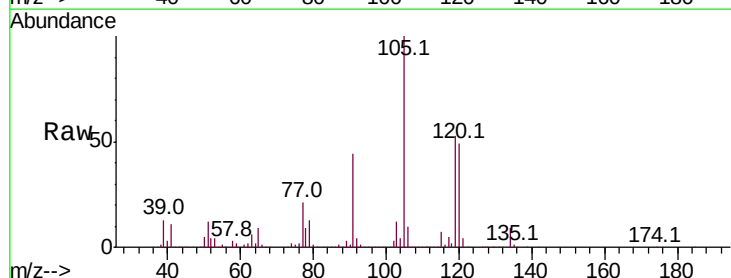
Ion Ratio Lower Upper

105 100

120 48.9 40.1 60.1

91 44.0 39.8 59.8

77 21.1 16.6 25.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2000000

1500000

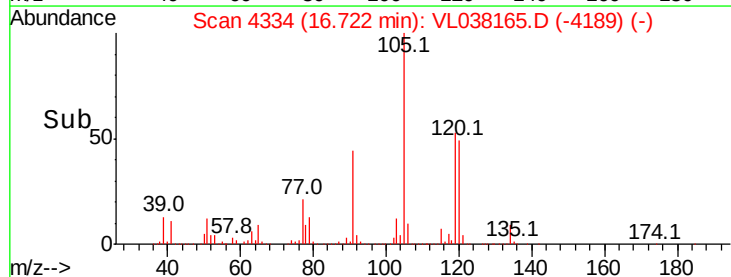
1000000

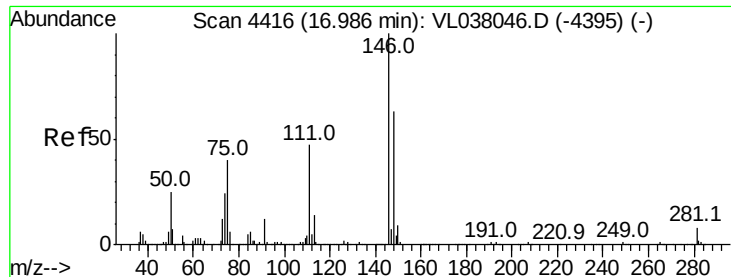
500000

0

Time-->

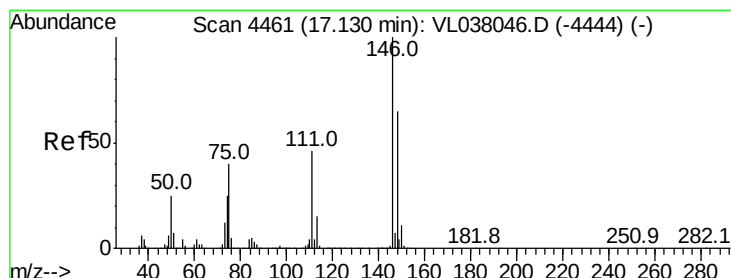
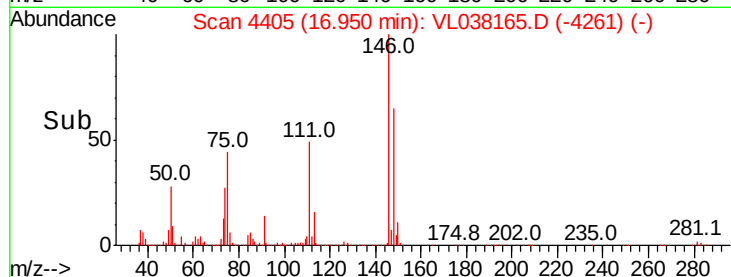
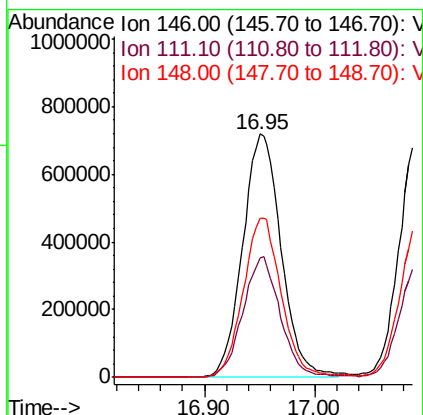
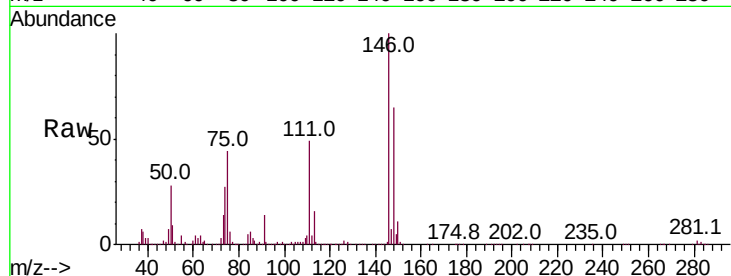
16.60 16.70 16.80





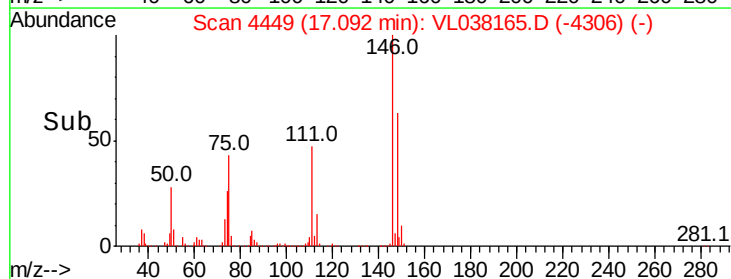
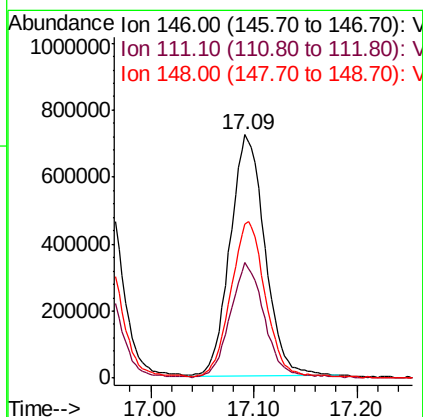
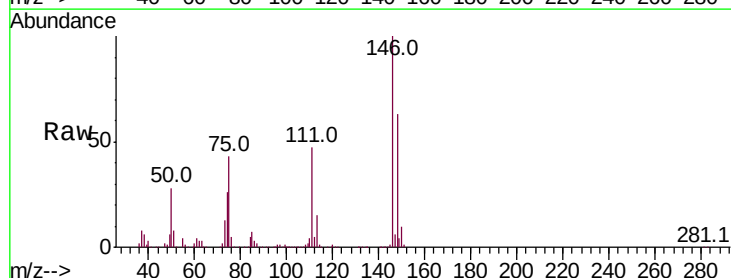
#75
 1,3-Dichlorobenzene
 Concen: 6.888 ppbv
 RT: 16.95 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 14 Dec 2021 14:08

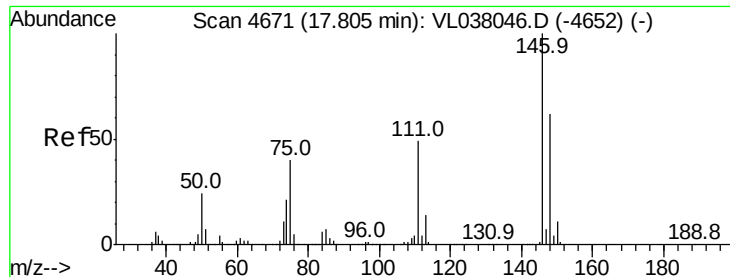
Tot Ion	Ratio	Lower	Upper
146	100		
111	48.2	23.5	70.6
148	64.9	32.1	96.3



#76
 1,4-Dichlorobenzene
 Concen: 6.687 ppbv
 RT: 17.09 min Scan# 4449
 Delta R.T.: -0.04 min
 Lab File: VL038165.D
 Acq: 14 Dec 2021 14:08

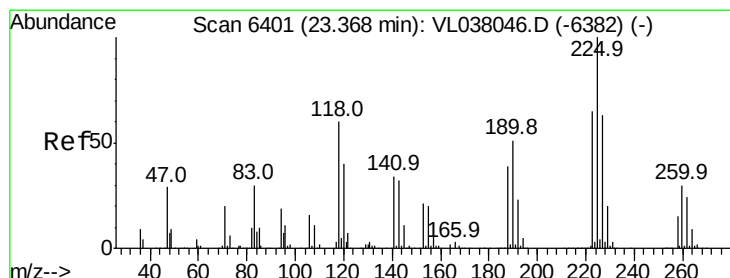
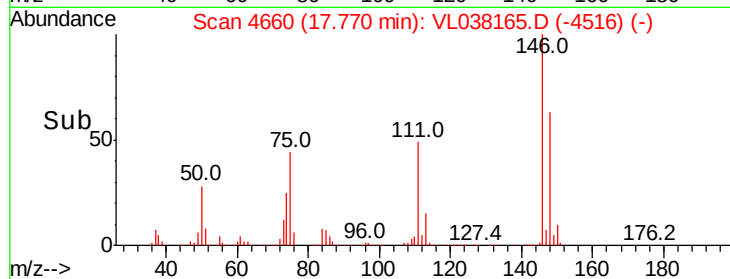
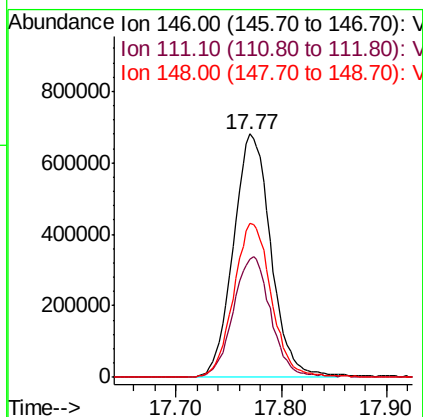
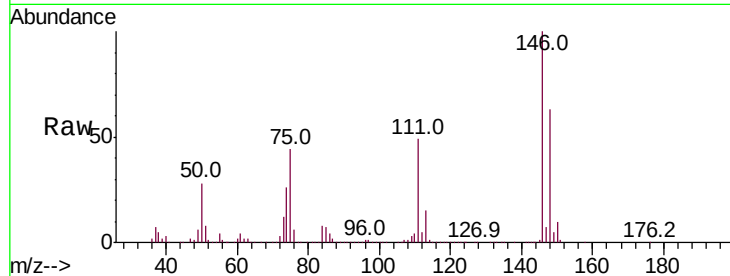
Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.1	23.8	71.5
148	66.5	33.2	99.6





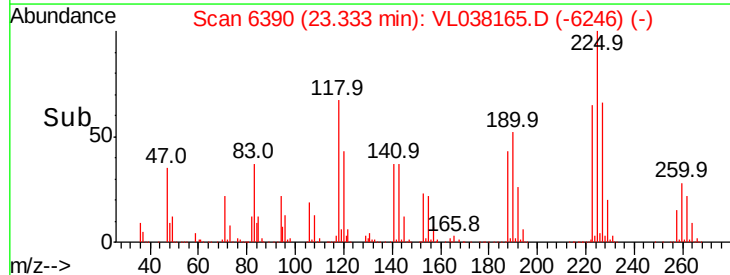
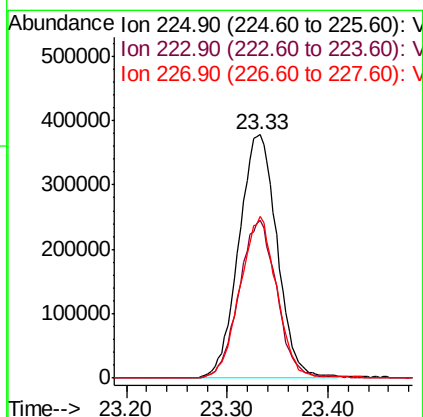
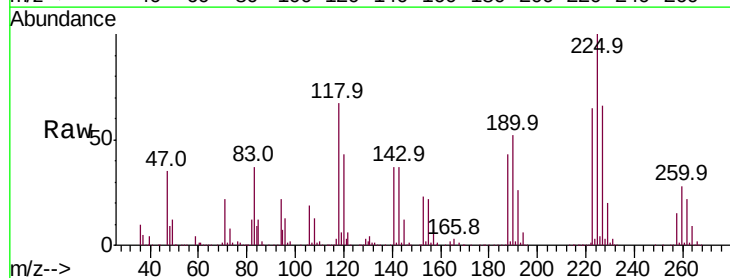
#77
 1,2-Dichlorobenzene
 Concen: 6.858 ppbv
 RT: 17.77 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 14 Dec 2021 14:08

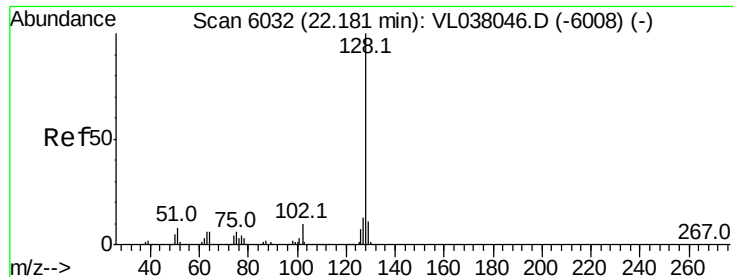
Tot Ion:146 Resp: 1674513
 Ion Ratio Lower Upper
 146 100
 111 49.8 24.8 74.4
 148 63.9 32.3 96.9



#78
 Hexachloro-1,3-Butadiene
 Concen: 6.528 ppbv
 RT: 23.33 min Scan# 6390
 Delta R.T.: -0.04 min
 Lab File: VL038165.D
 Acq: 14 Dec 2021 14:08

Tgt Ion:225 Resp: 995078
 Ion Ratio Lower Upper
 225 100
 223 63.9 52.3 78.5
 227 64.0 52.4 78.6





#79

Naphthalene

Concen: 7.687 ppbv

RT: 22.14

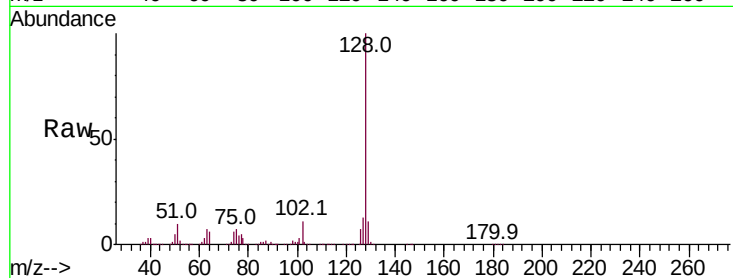
Delta R.T. MSVOA_L

Lab File:

Acq: 14 Dec 2021 14:08

Tot Ion:128 Resp: 1858461

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.4	15.6
129	11.0	8.9	13.3



Abundance

Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

22.14

800000

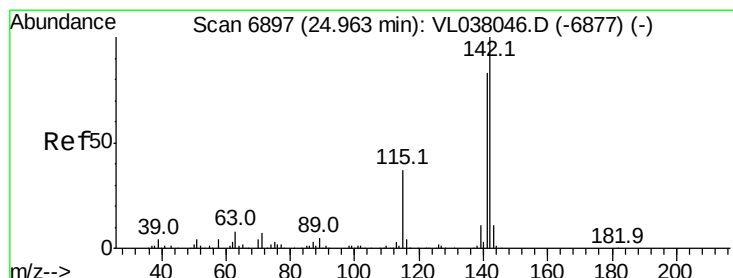
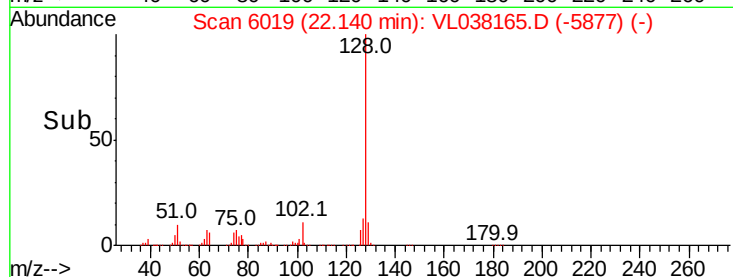
600000

400000

200000

0

Time--> 22.00 22.10 22.20



#80

Naphthalene, 2-methyl-

Concen: 6.998 ppbv

RT: 24.93 min Scan# 6888

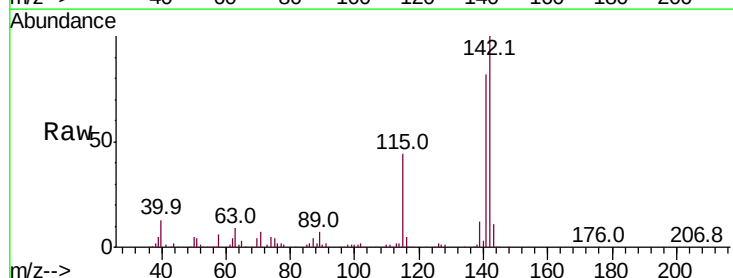
Delta R.T. -0.03 min

Lab File: VL038165.D

Acq: 14 Dec 2021 14:08

Tgt Ion:142 Resp: 362602

Ion	Ratio	Lower	Upper
142	100		
141	90.5	67.3	100.9
115	45.3	28.9	43.3



Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

24.93

200000

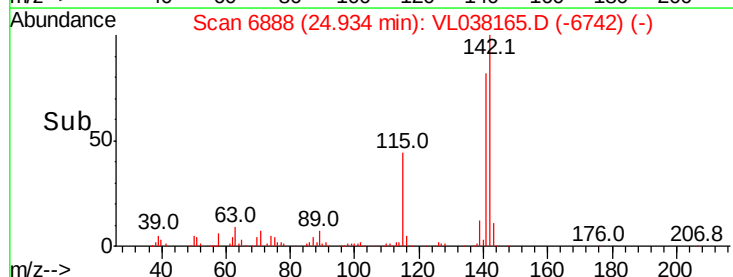
150000

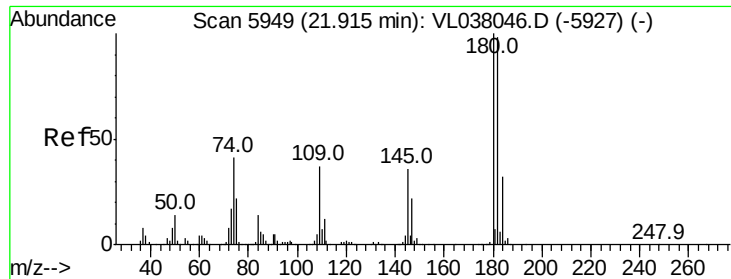
100000

50000

0

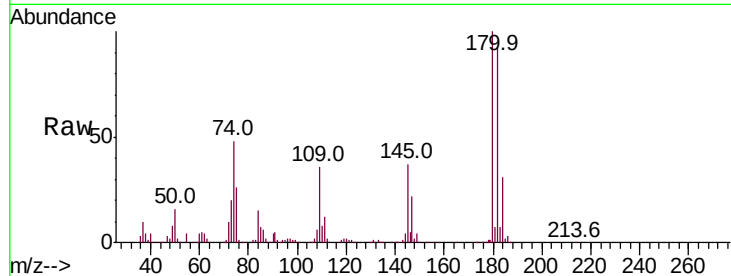
Time--> 24.80 24.90 25.00





#81
 1,2,4-Trichlorobenzene
 Concen: 7.439 ppbv
 RT: 21.87
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 14:08

Tot Ion:180 Resp: 1033419
 Ion Ratio Lower Upper
 180 100
 182 100.4 77.4 116.2
 184 30.9 25.0 37.4



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

