

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121020\
 Data File : VL036147.D
 Acq On : 11 Dec 2020 3:28
 Operator : SY/AP
 Sample : L4948-13
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 14 22:28:49 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020

QLast Update : Mon Dec 07 16:56:49 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1228139	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.16	114	2518073	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.07	117	2179682	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1948029	11.26	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.60%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.05	85	1077	0.008	ppbv	92
3) Chlorodifluoromethane	2.97	51	75054m	0.536	ppbv	
4) Chloromethane	3.12	50	36185	0.526	ppbv #	80
5) Vinyl Chloride	3.25	62	211	0.003	ppbv #	44
6) Bromomethane	3.47	94	208	0.005	ppbv #	1
7) Chloroethane	3.55	64	439	0.017	ppbv	98
8) Dichlorotetrafluoroethane	3.17	85	1831	0.012	ppbv	99
9) Propene	2.99	41	54667	0.779	ppbv	96
10) Heptane	8.10	43	29658m	0.165	ppbv	
11) Trichlorofluoromethane	3.93	101	47799m	0.284	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.47	101	9061m	0.079	ppbv	
13) Ethanol	3.61	45	3534691	365.279	ppbv	85
14) Bromoethene	3.72	108	119	0.003	ppbv #	4
15) Acetone	3.83	43	1302049	8.821	ppbv	100
18) 1,1-Dichloroethene	4.28	96	157	0.003	ppbv #	1
19) Isopropyl Alcohol	3.98	45	164454	1.823	ppbv #	100
20) Methylene Chloride	4.33	84	3203818	52.968	ppbv	96
22) trans-1,2-Dichloroethene	4.87	96	510	0.010	ppbv #	1
23) Vinyl Acetate	5.06	43	4866	0.025	ppbv #	76
24) 1,1-Dichloroethane	5.00	63	486	0.004	ppbv #	88
26) Hexane	5.67	57	1936882	14.595	ppbv #	37
27) Carbon Disulfide	4.54	76	1821	0.014	ppbv #	59
28) Methyl tert-Butyl Ether	5.02	73	953	0.005	ppbv #	51
29) Chloroform	5.74	83	28806m	0.165	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	985	0.008	ppbv #	38
32) 1,1,1-Trichloroethane	6.49	97	1596	0.009	ppbv #	1
34) 2-Butanone	5.23	43	263349m	1.577	ppbv	
35) Carbon Tetrachloride	7.00	117	10064m	0.069	ppbv	
36) Benzene	6.87	78	355042	1.664	ppbv	98
37) 1,2-Dichloroethane	6.29	62	1311	0.011	ppbv #	83
38) Trichloroethene	7.81	130	1504	0.019	ppbv #	10
40) 1,4-Dioxane	7.82	88	326	0.012	ppbv #	1
42) Bromodichloromethane	7.77	83	604	0.004	ppbv #	19
43) Methyl Methacrylate	7.99	69	2239	0.024	ppbv #	1
44) 2,2,4-Trimethylpentane	7.85	57	88162m	0.228	ppbv	
45) t-1,3-Dichloropropene	8.79	75	80	0.001	ppbv	90
46) cis-1,3-Dichloropropene	8.69	75	77	0.001	ppbv #	1
47) 1,1,2-Trichloroethane	9.45	97	193	0.002	ppbv #	45
48) Dibromochloromethane	9.92	129	102	0.001	ppbv	81
49) Bromoform	13.03	173	225	0.002	ppbv #	1
51) 2-Hexanone	10.11	43	227	0.001	ppbv #	29

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020

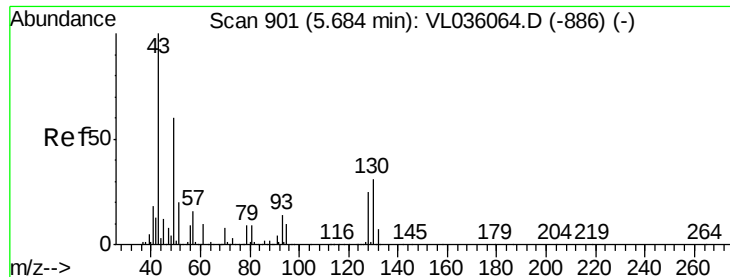
QLast Update : Mon Dec 07 16:56:49 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

52) Tetrachloroethene	11.20	164	14906m	0.193	ppbv	
53) Toluene	9.79	91	302560	1.263	ppbv	99
54) 1,2-Dibromoethane	10.60	107	196	0.002	ppbv	85
56) 1,1,1,2-Tetrachloroethane	12.11	131	150	0.002	ppbv #	8
57) Chlorobenzene	12.13	112	1084	0.007	ppbv #	21
58) Ethyl Benzene	12.69	91	59272m	0.198	ppbv	
59) m/p-Xylene	12.95	91	172447m	0.685	ppbv	
60) o-Xylene	13.68	91	63369m	0.267	ppbv	
61) Styrene	13.52	104	2694	0.018	ppbv #	1
62) Isopropylbenzene	14.65	105	6943	0.020	ppbv #	7
63) 1,1,2,2-Tetrachloroethane	13.67	83	617	0.004	ppbv #	7
64) n-propylbenzene	15.54	120	324	0.004	ppbv #	1
65) tert-Butylbenzene	16.73	119	1288	0.004	ppbv #	22
66) Benzyl Chloride	16.96	91	210	0.003	ppbv #	36
67) sec-Butylbenzene	17.26	105	422	0.001	ppbv #	60
69) p-Isopropyltoluene	17.63	119	1944	0.006	ppbv #	46
70) n-Butylbenzene	18.52	91	317	0.001	ppbv #	1
71) 2-Chlorotoluene	15.45	91	1478	0.006	ppbv	93
72) 4-Ethyltoluene	15.82	105	4374	0.017	ppbv #	55
73) 1,3,5-Trimethylbenzene	15.97	105	3758	0.015	ppbv #	73
75) 1,3-Dichlorobenzene	16.98	146	798	0.006	ppbv #	1
76) 1,4-Dichlorobenzene	17.12	146	836	0.007	ppbv #	22
77) 1,2-Dichlorobenzene	17.79	146	469	0.004	ppbv #	21
78) Hexachloro-1,3-Butadiene	23.33	225	47	0.000	ppbv #	18
79) Naphthalene	22.17	128	454	0.004	ppbv #	67
80) Naphthalene,2-methyl-	24.81	142	32	0.001	ppbv #	1
81) 1,2,4-Trichlorobenzene	21.90	180	255	0.003	ppbv #	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.03 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

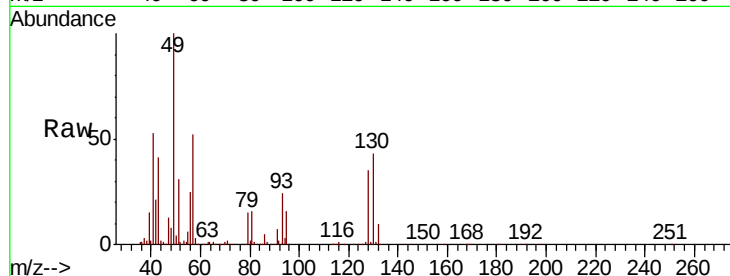
Tot Ion: 49 Resp: 1228139

Ion Ratio Lower Upper

49 100

128 35.9 21.1 63.1

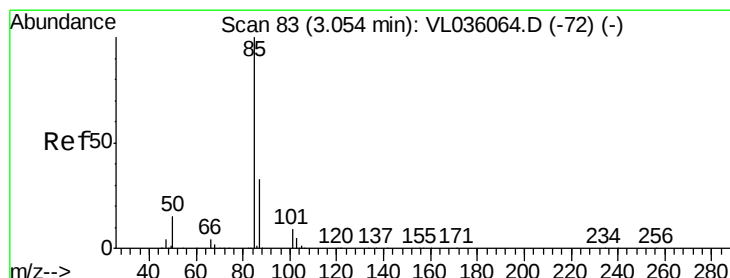
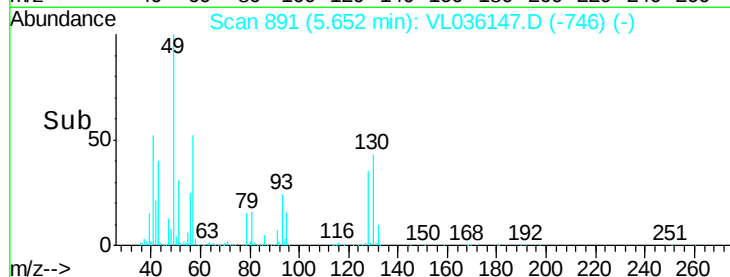
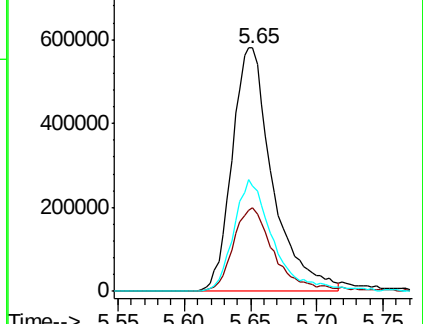
130 45.4 27.1 81.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.008 ppbv

RT: 3.05 min Scan# 83

Delta R.T. -0.00 min

Lab File: VL036147.D

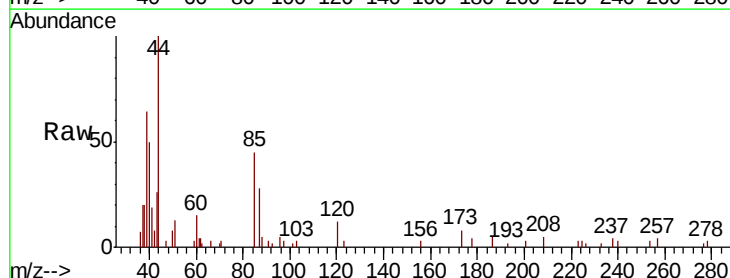
Acq: 11 Dec 2020 3:28

Tgt Ion: 85 Resp: 1077

Ion Ratio Lower Upper

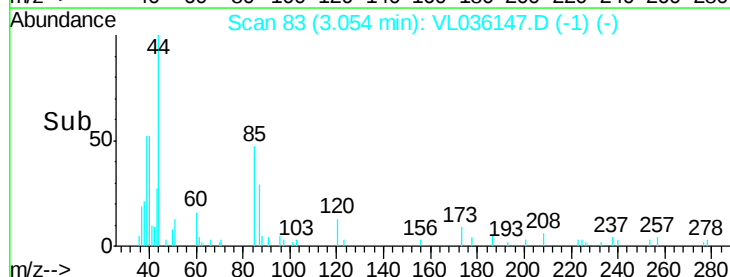
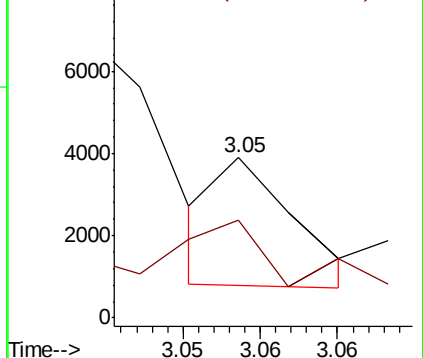
85 100

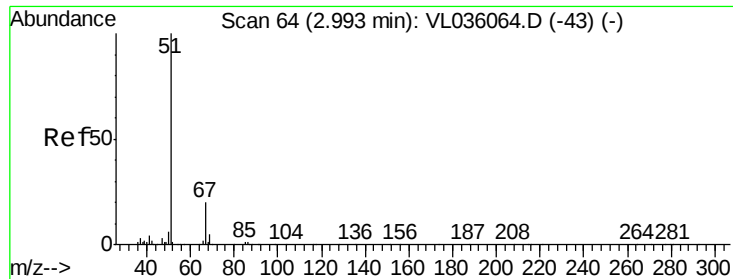
87 37.7 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.536 ppbv m

RT: 2.97 min Scan# 58

Delta R.T. -0.02 min

Lab File: VL036147.D

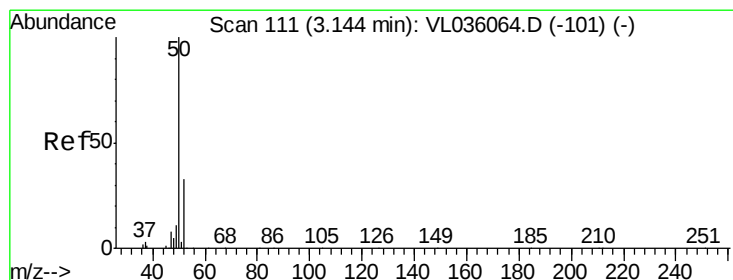
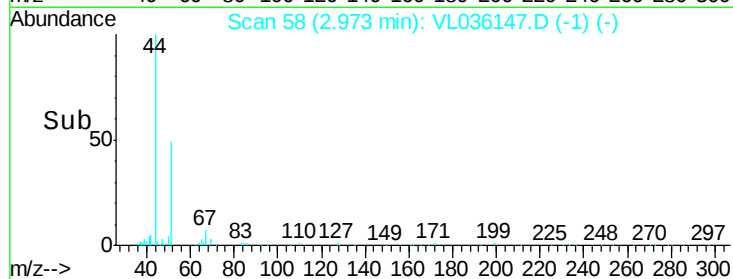
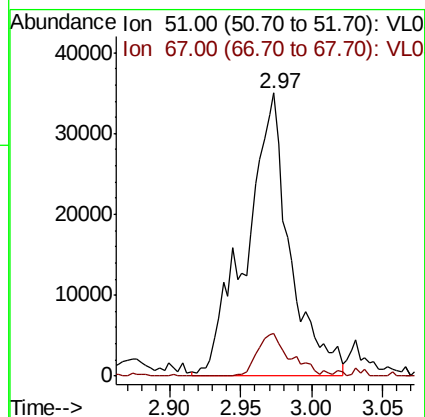
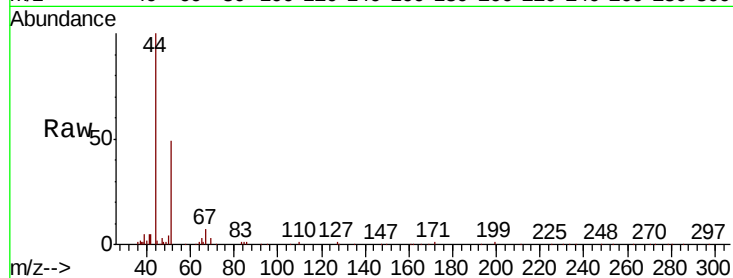
Acq: 11 Dec 2020 3:28

Tot Ion: 51 Resp: 75054

Ion Ratio Lower Upper

51 100

67 1.1 14.3 21.5#



#4

Chloromethane

Concen: 0.526 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.02 min

Lab File: VL036147.D

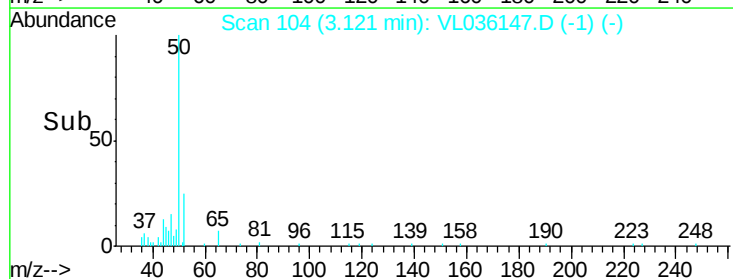
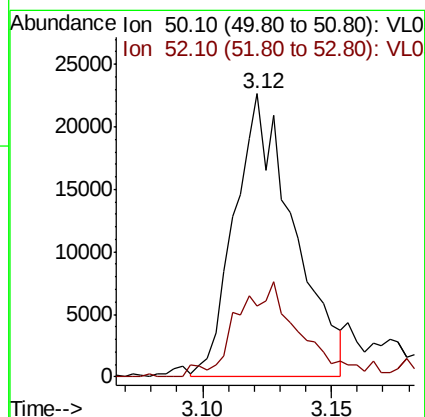
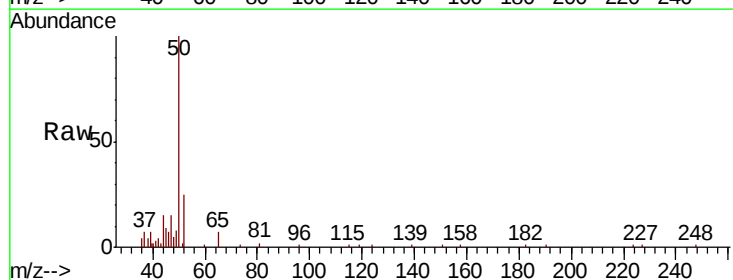
Acq: 11 Dec 2020 3:28

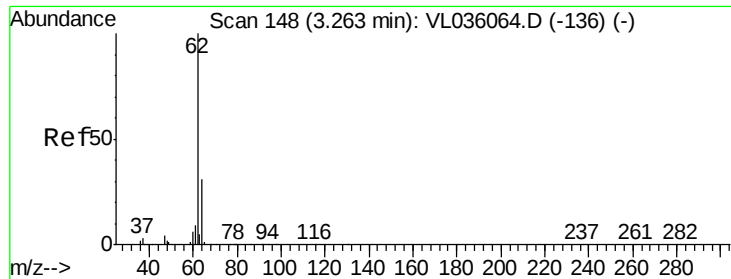
Tgt Ion: 50 Resp: 36185

Ion Ratio Lower Upper

50 100

52 21.4 26.1 39.1#





#5

Vinyl Chloride

Concen: 0.003 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.02 min

Lab File: VL036147.D

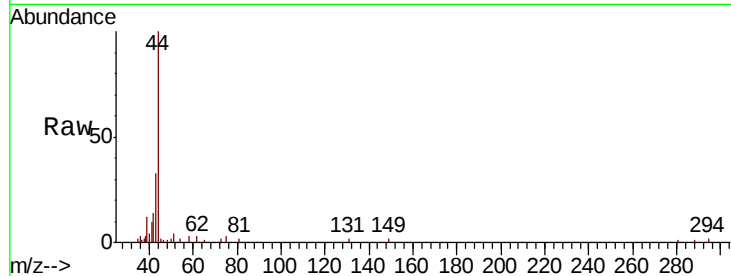
Acq: 11 Dec 2020 3:28

Tot Ion: 62 Resp: 211

Ion Ratio Lower Upper

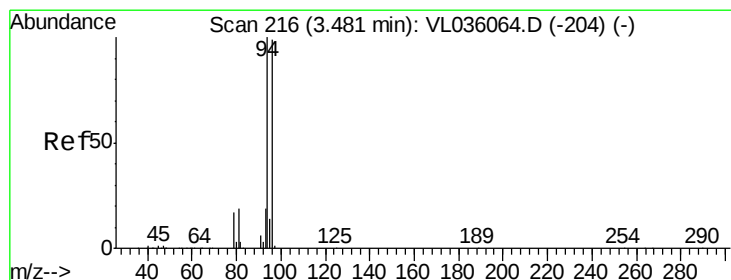
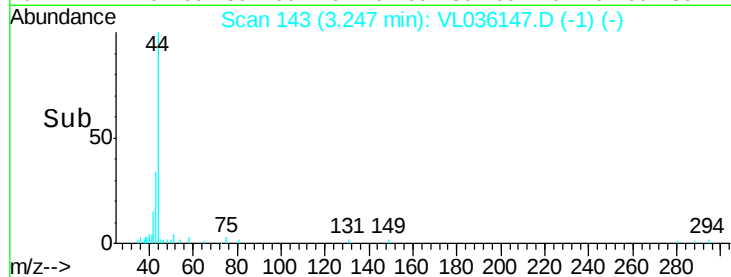
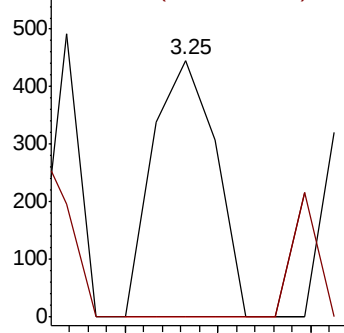
62 100

64 0.0 24.5 36.7#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.005 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.01 min

Lab File: VL036147.D

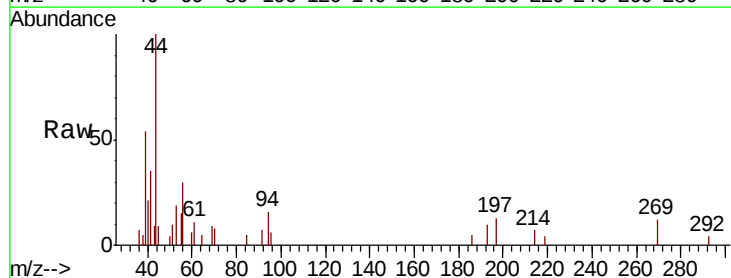
Acq: 11 Dec 2020 3:28

Tgt Ion: 94 Resp: 208

Ion Ratio Lower Upper

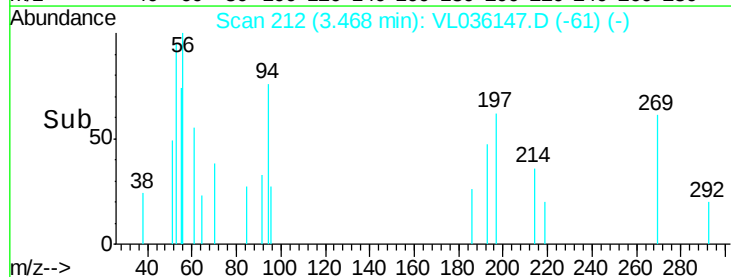
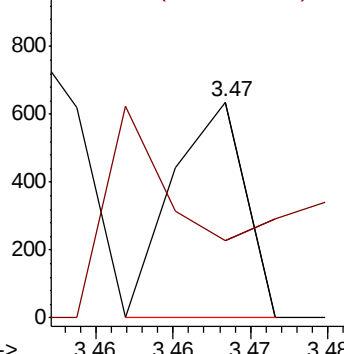
94 100

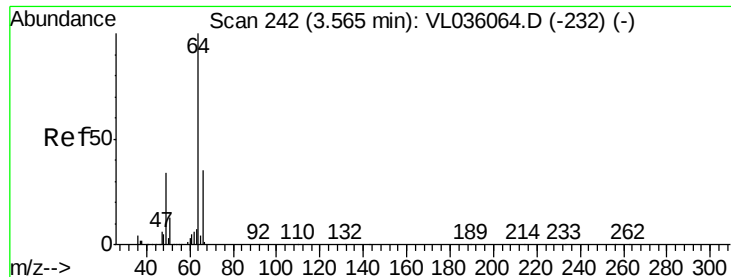
96 0.0 79.4 119.0#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.017 ppbv

RT: 3.55 min Scan# 237

Delta R.T. -0.02 min

Lab File: VL036147.D

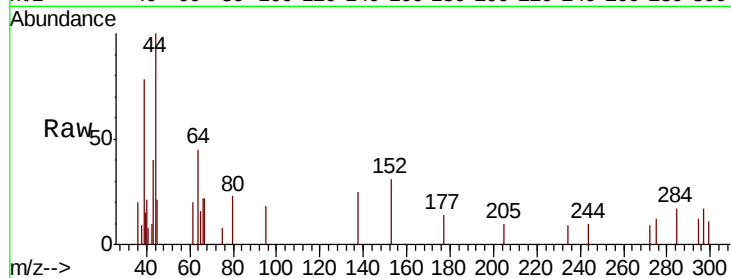
Acq: 11 Dec 2020 3:28

Tot Ion: 64 Resp: 439

Ion Ratio Lower Upper

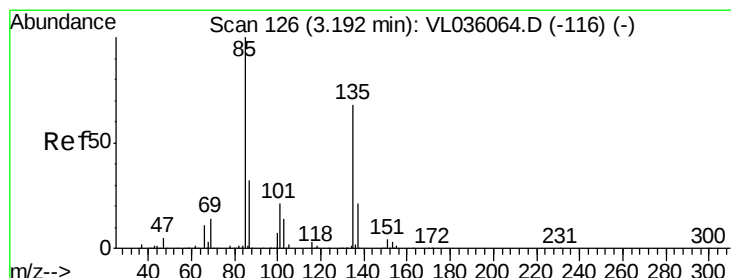
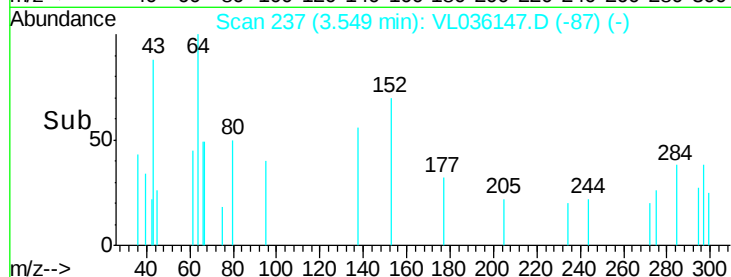
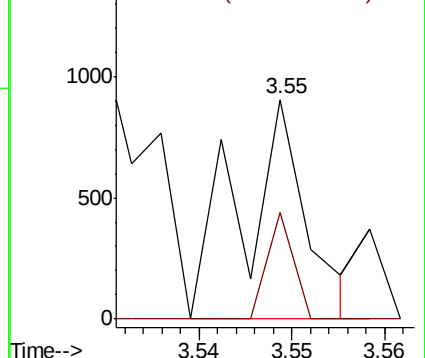
64 100

66 35.7 27.7 41.5



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.012 ppbv

RT: 3.17 min Scan# 118

Delta R.T. -0.03 min

Lab File: VL036147.D

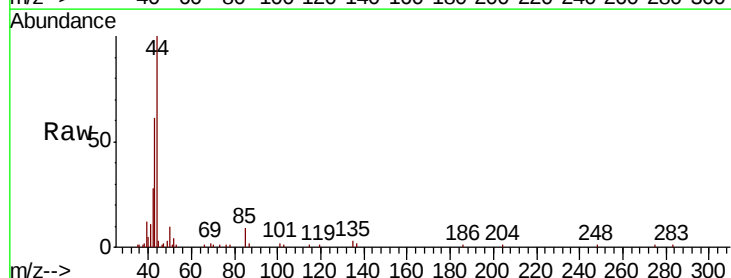
Acq: 11 Dec 2020 3:28

Tgt Ion: 85 Resp: 1831

Ion Ratio Lower Upper

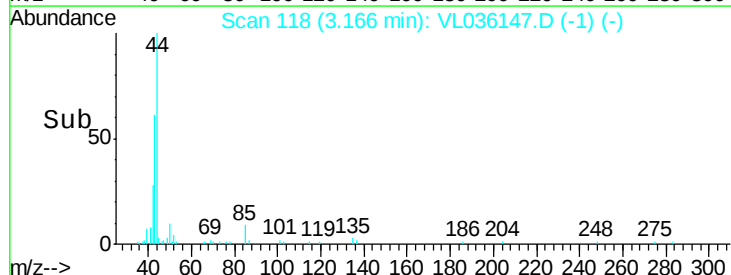
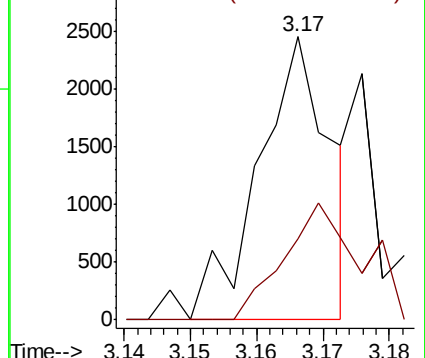
85 100

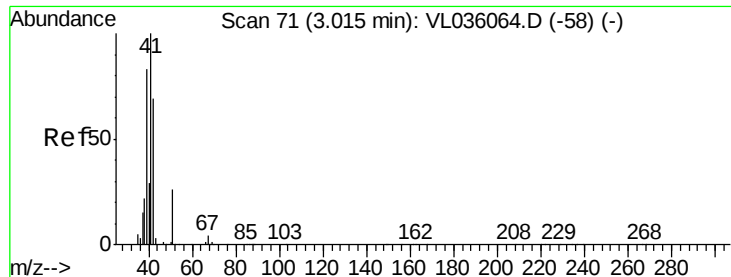
135 66.8 53.8 80.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.779 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.02 min

Lab File: VL036147.D

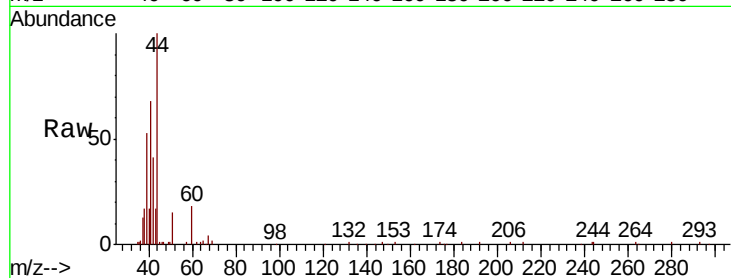
Acq: 11 Dec 2020 3:28

Tot Ion: 41 Resp: 54667

Ion Ratio Lower Upper

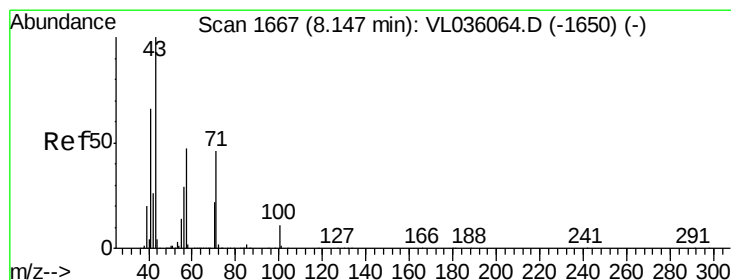
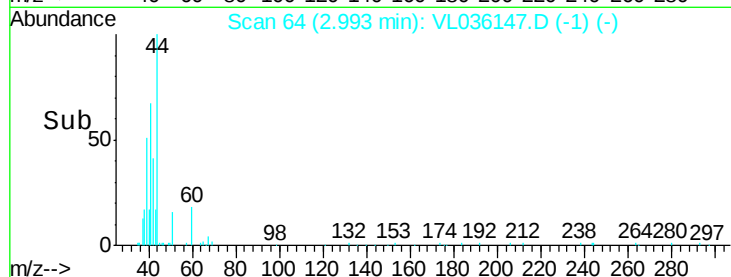
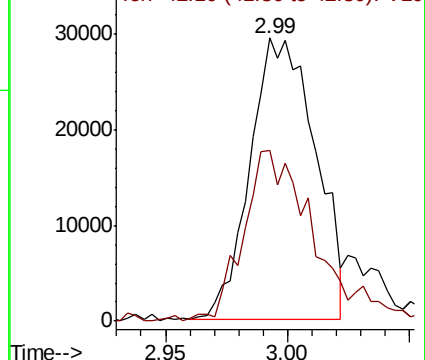
41 100

42 67.7 57.0 85.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.165 ppbv m

RT: 8.10 min Scan# 1654

Delta R.T. -0.04 min

Lab File: VL036147.D

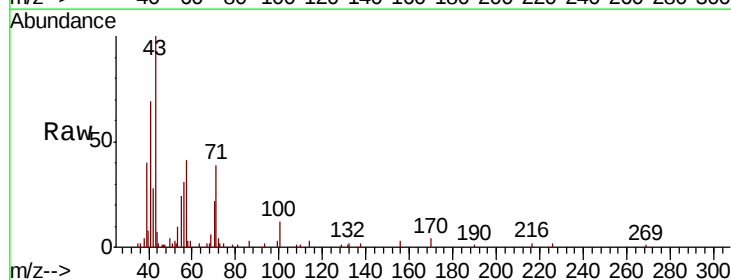
Acq: 11 Dec 2020 3:28

Tgt Ion: 43 Resp: 29658

Ion Ratio Lower Upper

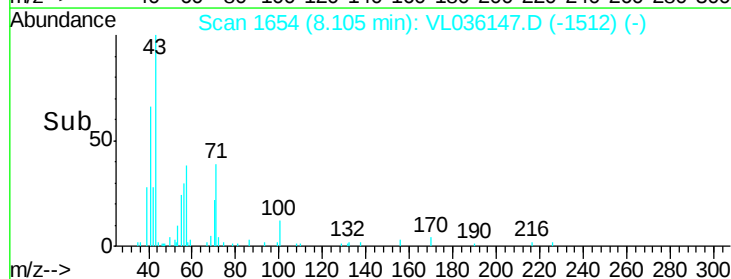
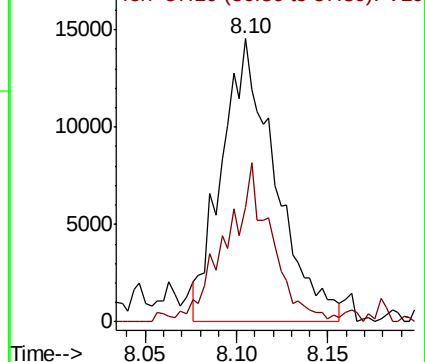
43 100

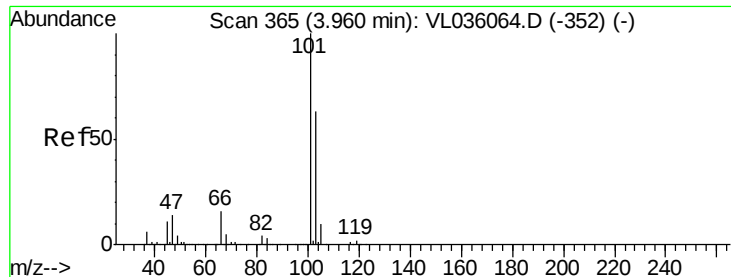
57 48.3 37.9 56.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

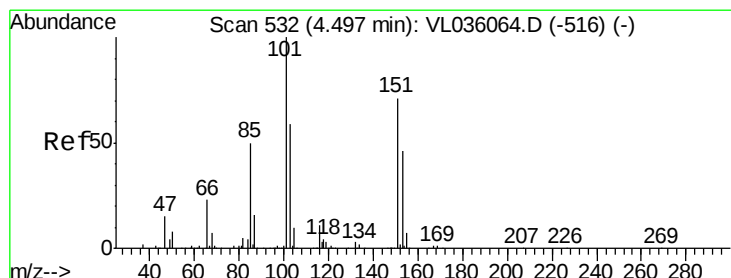
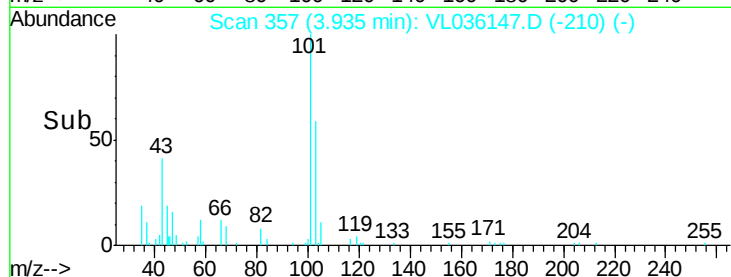
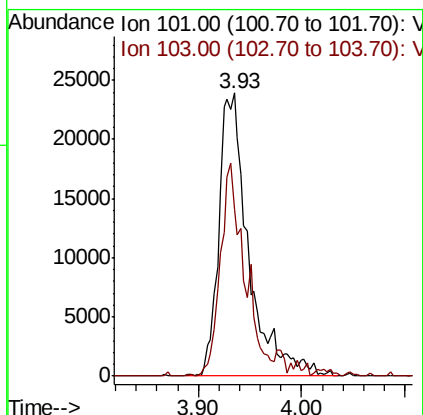
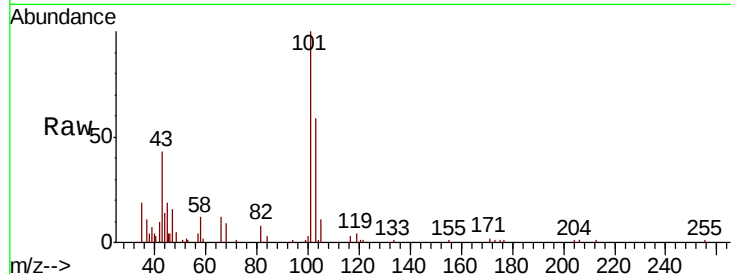
Ion 57.10 (56.80 to 57.80): VL0





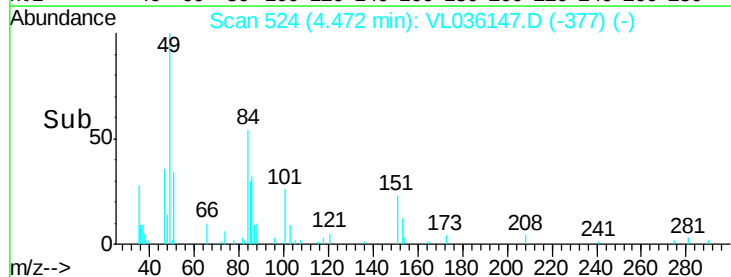
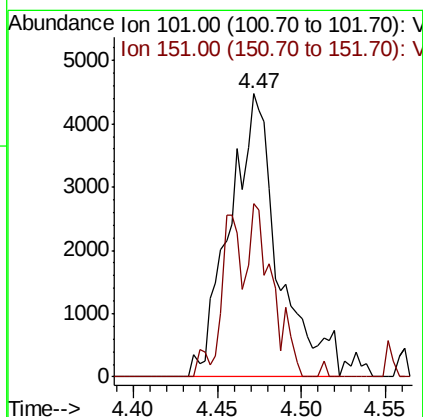
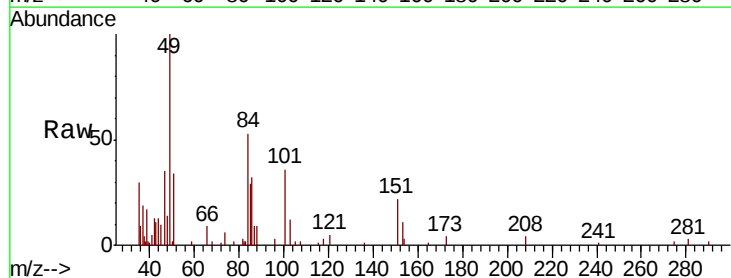
#11
 Trichlorofluoromethane
 Concen: 0.284 ppbv m
 RT: 3.93 min Scan# 357
 Delta R.T. -0.03 min
 Lab File: VL036147.D
 Acq: 11 Dec 2020 3:28

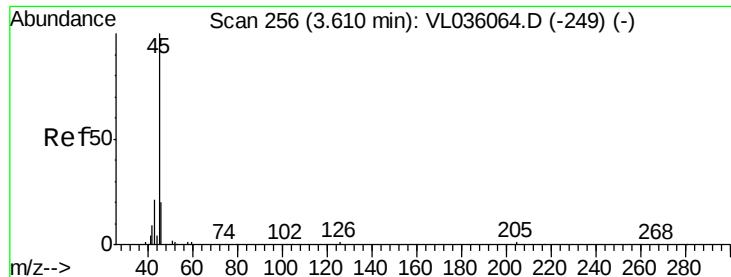
Tot Ion:101 Resp: 47799
 Ion Ratio Lower Upper
 101 100
 103 59.0 50.3 75.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.079 ppbv m
 RT: 4.47 min Scan# 524
 Delta R.T. -0.03 min
 Lab File: VL036147.D
 Acq: 11 Dec 2020 3:28

Tgt Ion:101 Resp: 9061
 Ion Ratio Lower Upper
 101 100
 151 54.8 59.3 88.9#





#13

Ethanol

Concen: 365.279 ppbv

RT: 3.61 min Scan# 256

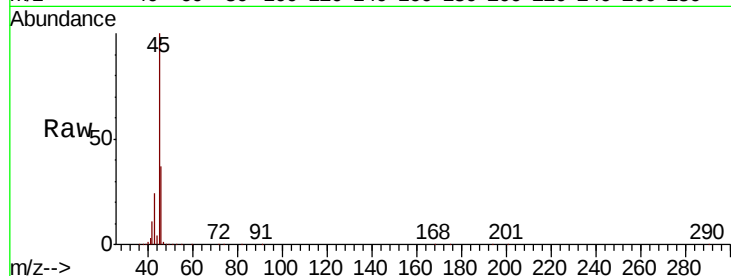
Delta R.T. -0.00 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Tot Ion: 45 Resp: 3534691

Ion	Ratio	Lower	Upper
45	100		
46	37.0	19.0	75.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.61

1500000

1000000

500000

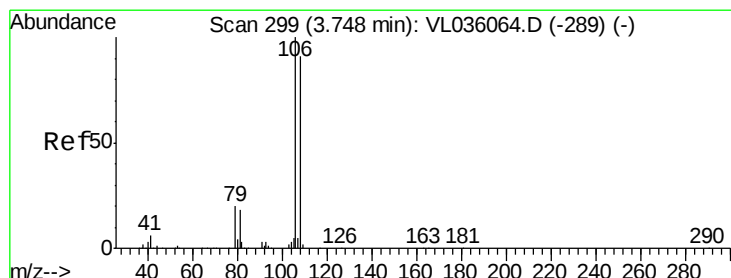
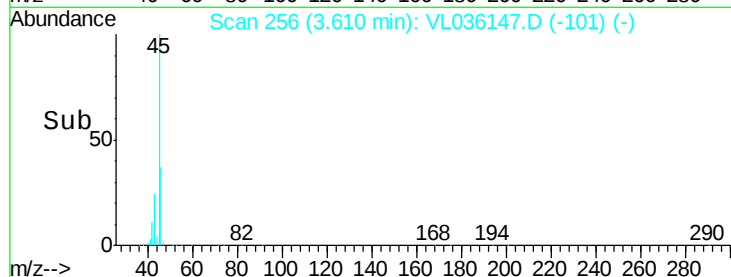
0

Time-->

3.50

3.60

3.70



#14

Bromoethene

Concen: 0.003 ppbv

RT: 3.72 min Scan# 291

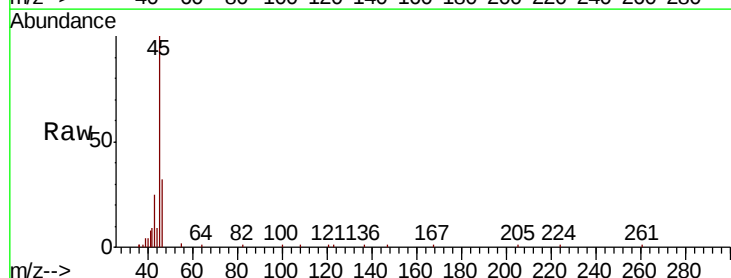
Delta R.T. -0.03 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Tgt Ion: 108 Resp: 119

Ion	Ratio	Lower	Upper
108	100		
106	0.0	91.0	136.4#
79	0.0	19.3	28.9#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

3.72

500

400

300

200

100

0

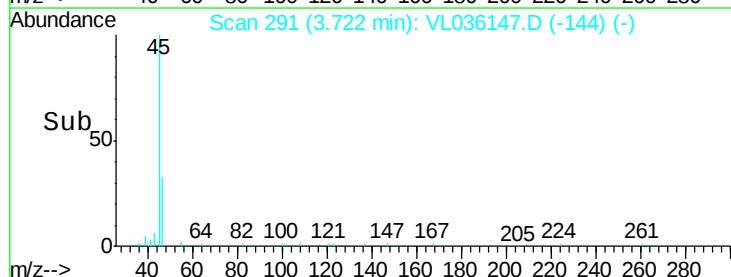
Time-->

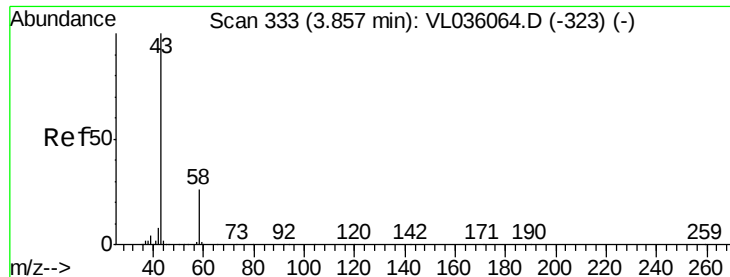
3.71

3.72

3.73

3.73





#15

Acetone

Concen: 8.821 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.03 min

Lab File: VL036147.D

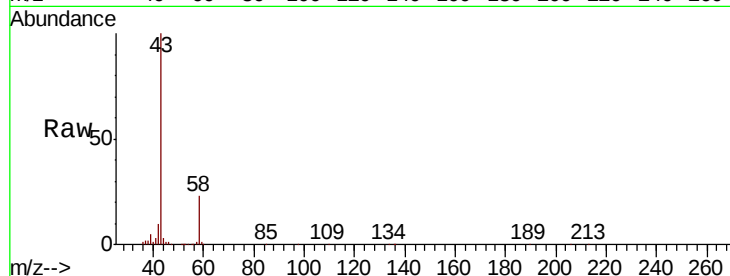
Acq: 11 Dec 2020 3:28

Tot Ion: 43 Resp: 1302049

Ion Ratio Lower Upper

43 100

58 26.2 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.83

600000

400000

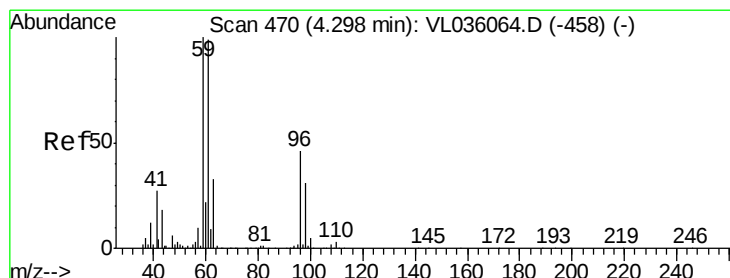
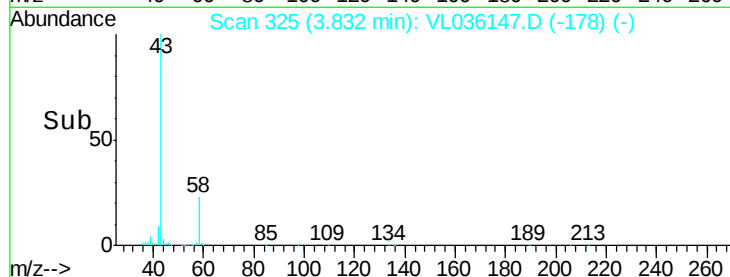
200000

0

Time-->

3.80

3.90



#18

1,1-Dichloroethene

Concen: 0.003 ppbv

RT: 4.28 min Scan# 464

Delta R.T. -0.02 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

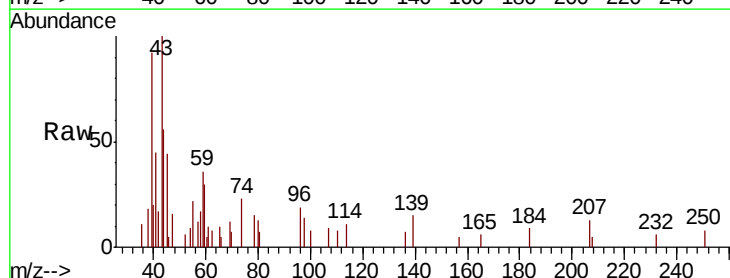
Tgt Ion: 96 Resp: 157

Ion Ratio Lower Upper

96 100

61 0.0 171.4 257.2#

98 70.4 54.2 81.2



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

800

600

400

200

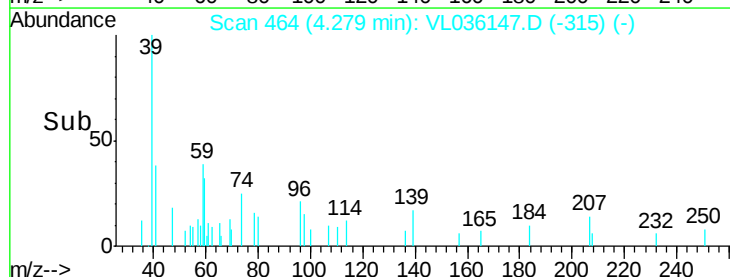
0

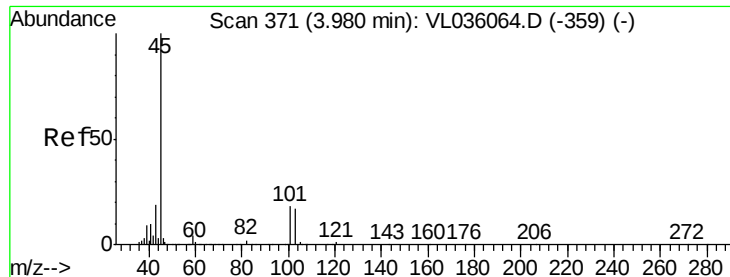
Time-->

4.28

4.28

4.29





#19

Isopropyl Alcohol

Concen: 1.823 ppbv

RT: 3.98 min Scan# 370

Delta R.T. -0.00 min

Lab File: VL036147.D

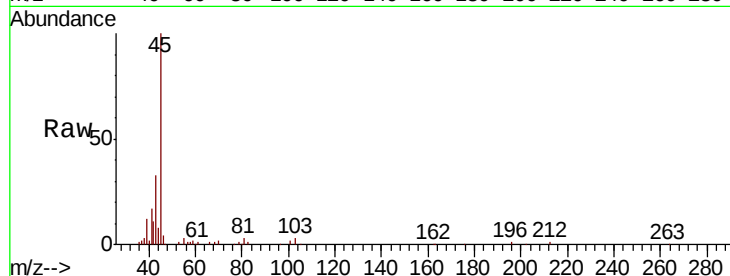
Acq: 11 Dec 2020 3:28

Tot Ion: 45 Resp: 164454

Ion Ratio Lower Upper

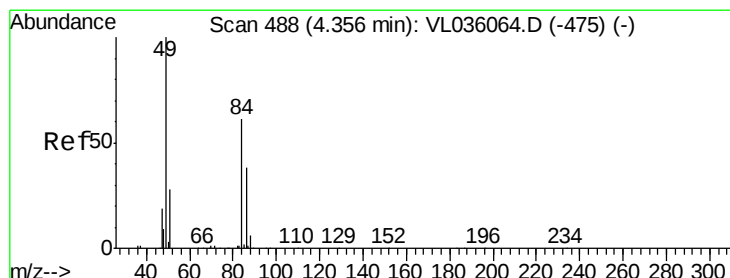
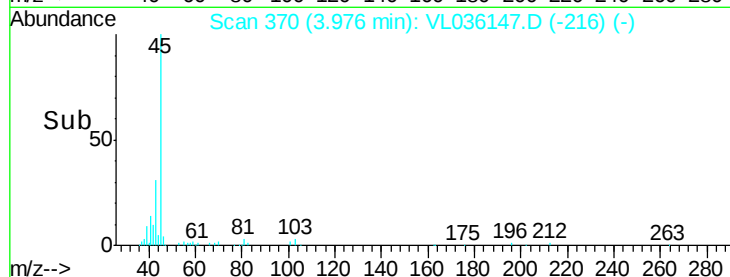
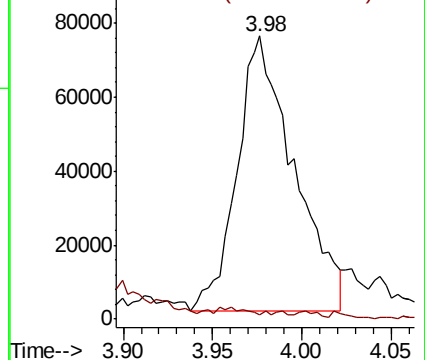
45 100

58 207.6 0.0 0.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 52.968 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.03 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Tgt Ion: 84 Resp: 3203818

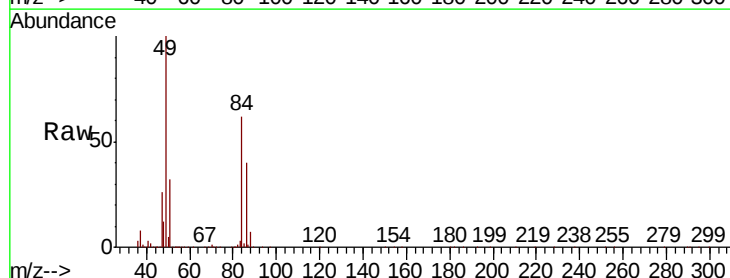
Ion Ratio Lower Upper

84 100

49 162.2 133.0 199.4

51 52.4 38.9 58.3

86 64.9 48.8 73.2

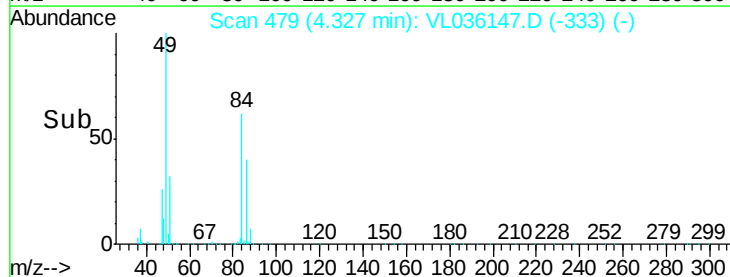
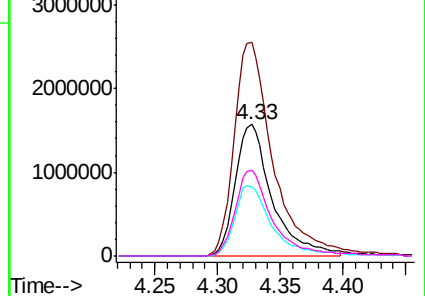


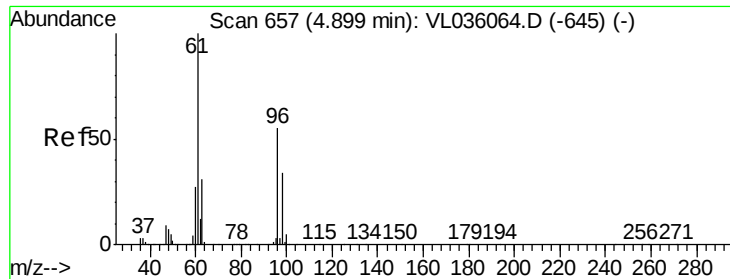
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#22

trans-1,2-Dichloroethene

Concen: 0.010 ppbv

RT: 4.87 min Scan# 647

Delta R.T. -0.03 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

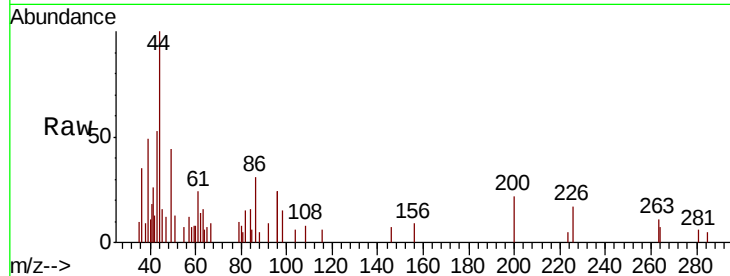
Tot Ion: 96 Resp: 510

Ion Ratio Lower Upper

96 100

61 0.0 145.7 218.5#

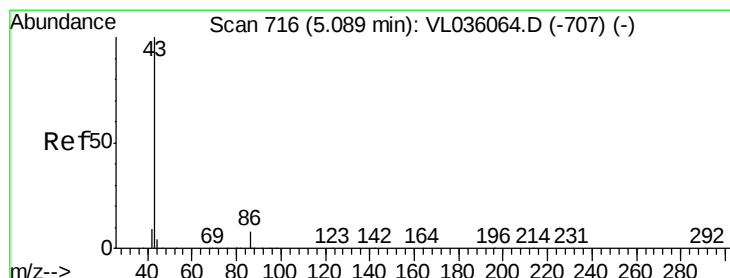
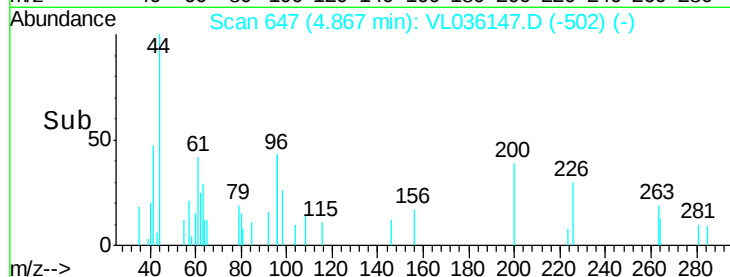
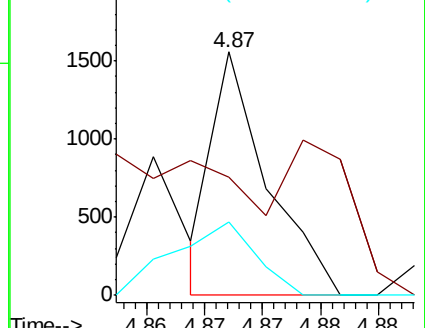
98 30.0 49.2 73.8#



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



#23

Vinyl Acetate

Concen: 0.025 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.03 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Tgt Ion: 43 Resp: 4866

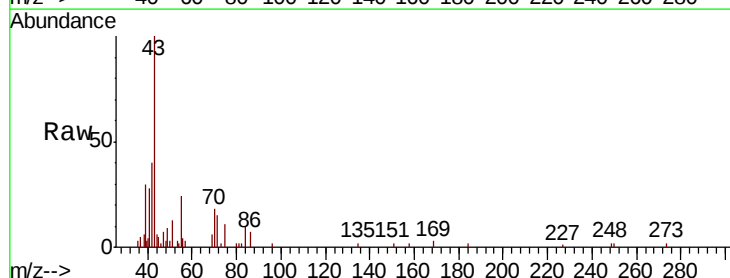
Ion Ratio Lower Upper

43 100

86 7.5 5.0 7.4#

42 25.1 7.8 11.6#

44 0.0 3.2 4.8#

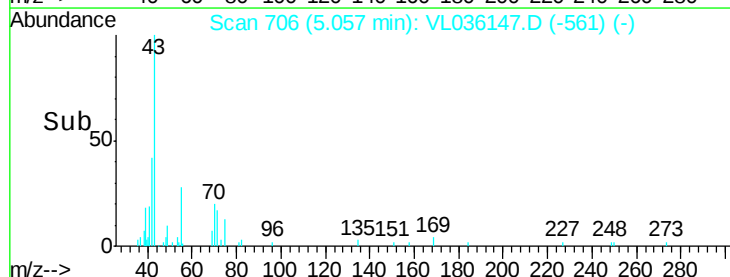
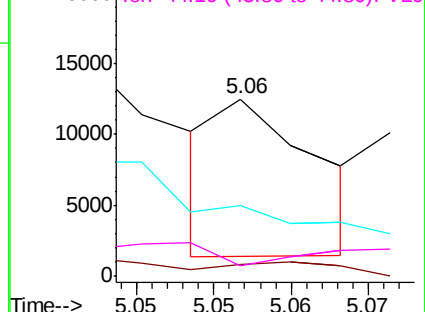


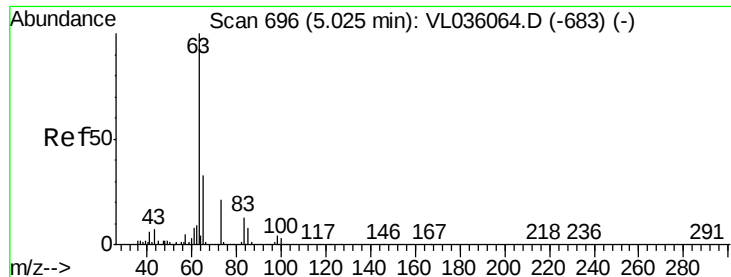
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.004 ppbv

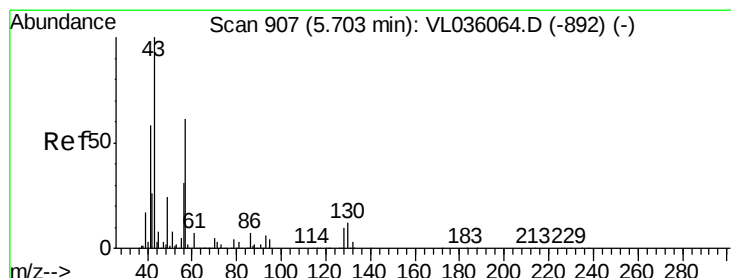
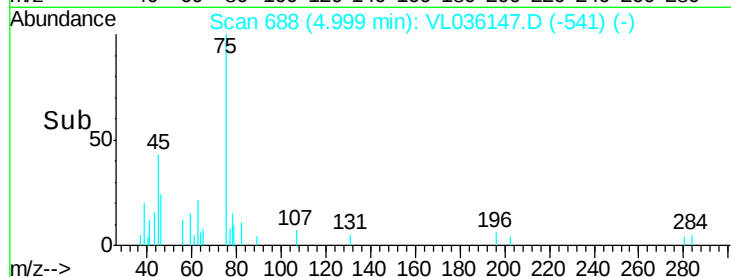
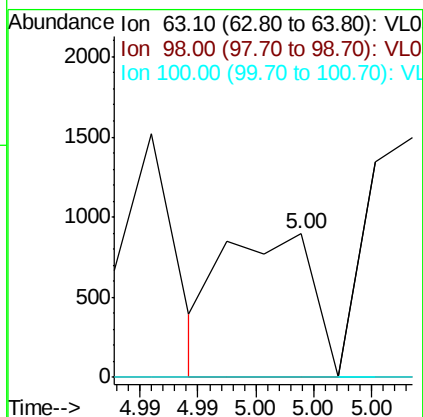
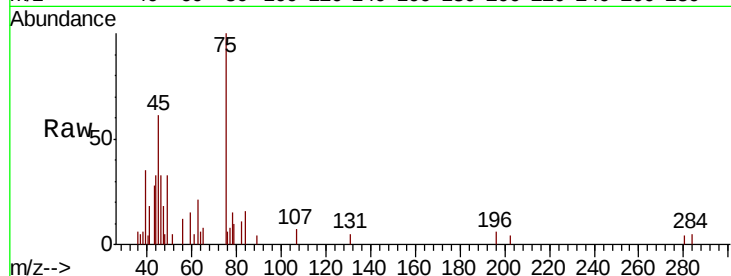
RT: 5.00 min Scan# 688

Delta R.T. -0.03 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Tot Ion:	63	Resp:	486
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.2	6.6#
100	0.0	1.5	4.4#



#26

Hexane

Concen: 14.595 ppbv

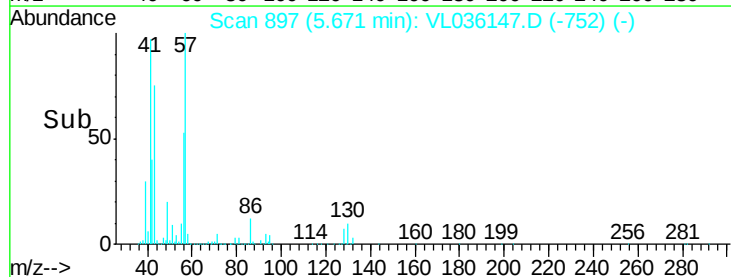
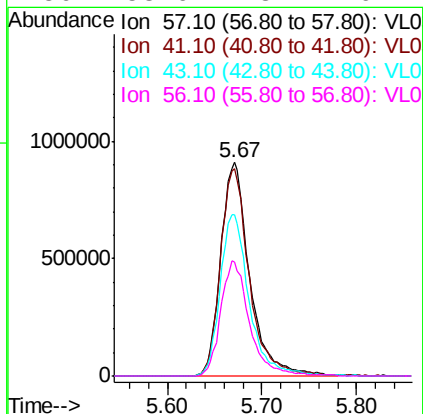
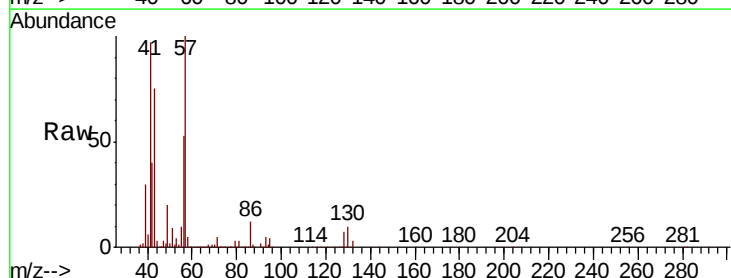
RT: 5.67 min Scan# 897

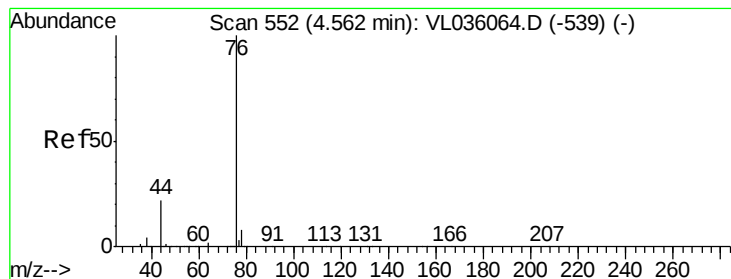
Delta R.T. -0.03 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Tgt Ion:	57	Resp:	1936882
Ion	Ratio	Lower	Upper
57	100		
41	97.5	82.9	124.3
43	76.1	199.9	299.9#
56	53.6	43.1	64.7





#27

Carbon Disulfide

Concen: 0.014 ppbv

RT: 4.54 min Scan# 545

Delta R.T. -0.02 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

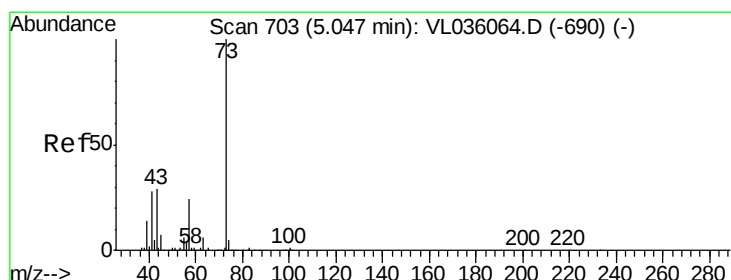
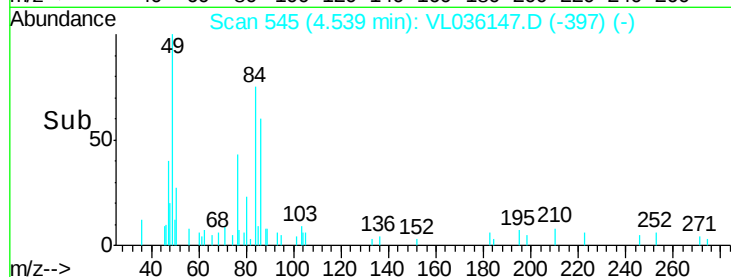
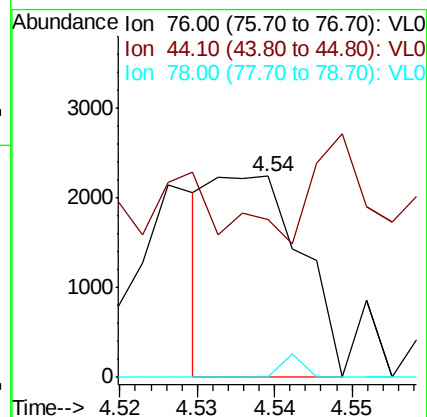
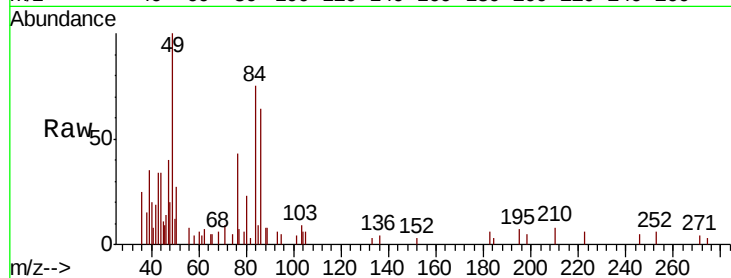
Tot Ion: 76 Resp: 1821

Ion Ratio Lower Upper

76 100

44 0.0 17.9 26.9#

78 0.0 7.8 11.8#



#28

Methyl tert-Butyl Ether

Concen: 0.005 ppbv

RT: 5.02 min Scan# 696

Delta R.T. -0.02 min

Lab File: VL036147.D

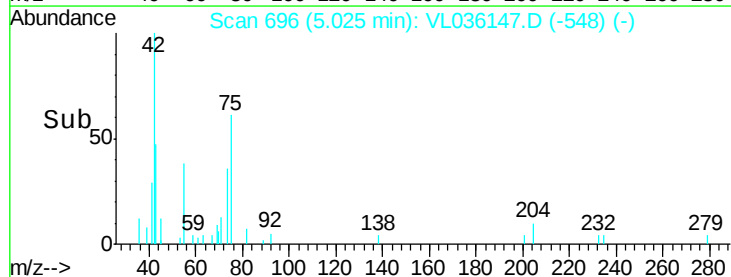
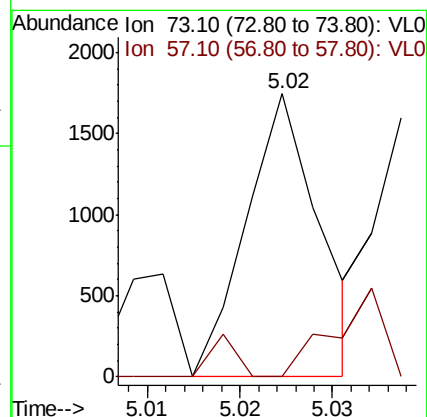
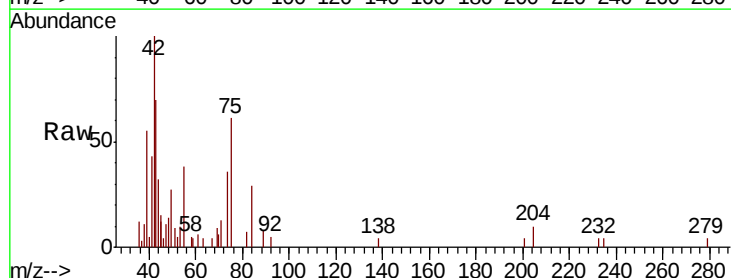
Acq: 11 Dec 2020 3:28

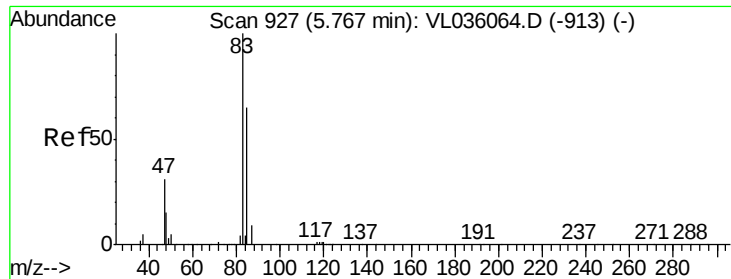
Tgt Ion: 73 Resp: 953

Ion Ratio Lower Upper

73 100

57 0.0 19.2 28.8#





#29

Chloroform

Concen: 0.165 ppbv m

RT: 5.74 min Scan# 918

Delta R.T. -0.03 min

Lab File: VL036147.D

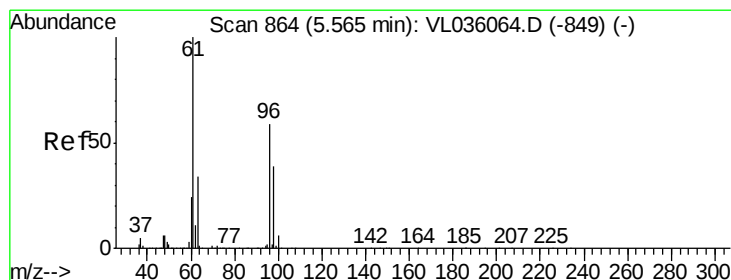
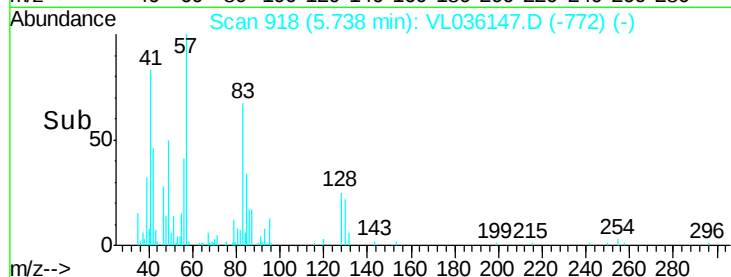
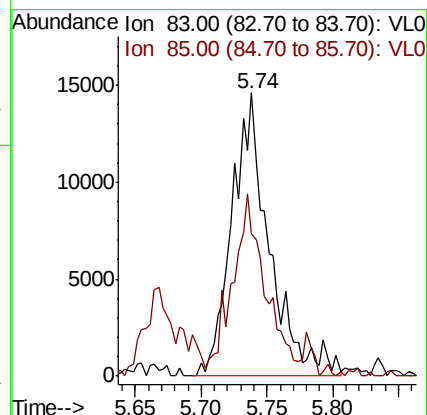
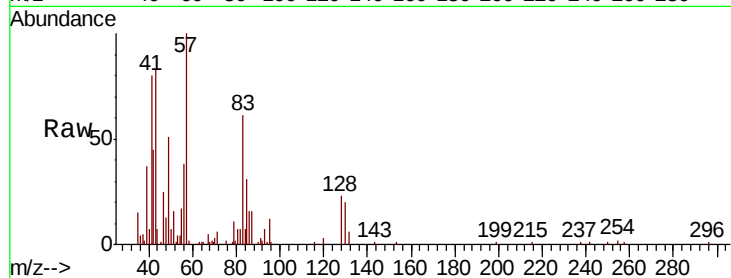
Acq: 11 Dec 2020 3:28

Tot Ion: 83 Resp: 28806

Ion Ratio Lower Upper

83 100

85 50.4 51.8 77.6#



#31

cis-1,2-Dichloroethene

Concen: 0.008 ppbv

RT: 5.54 min Scan# 855

Delta R.T. -0.03 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

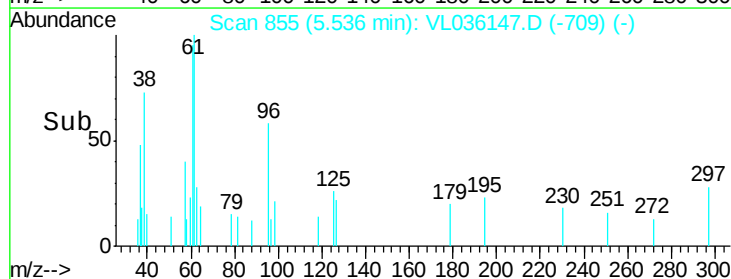
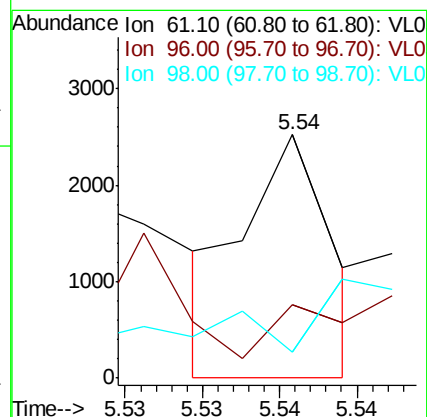
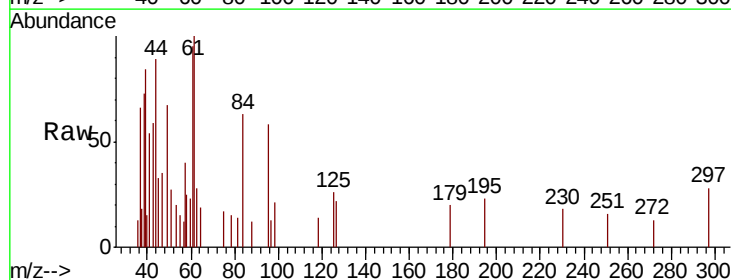
Tgt Ion: 61 Resp: 985

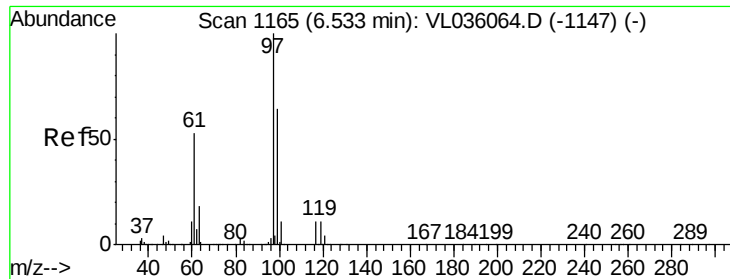
Ion Ratio Lower Upper

61 100

96 13.3 47.3 70.9#

98 0.0 31.4 47.0#





#32

1,1,1-Trichloroethane

Concen: 0.009 ppbv

RT: 6.49 min Scan# 1153

Delta R.T. -0.04 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

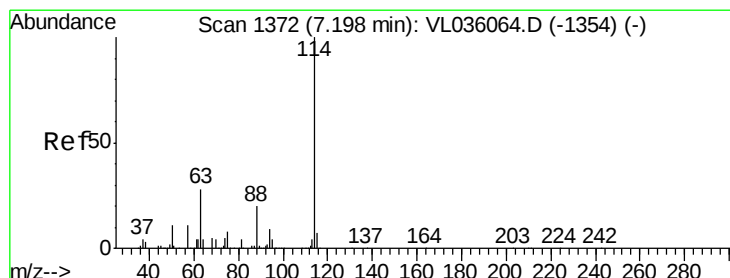
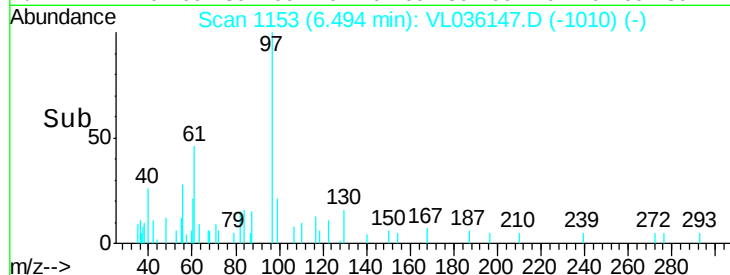
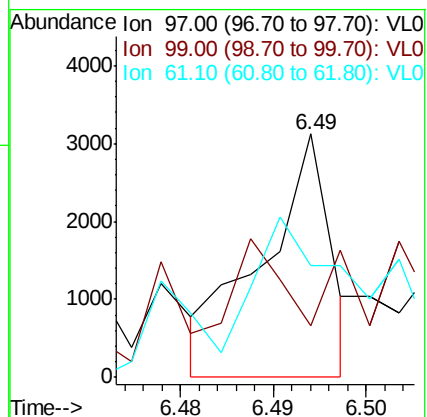
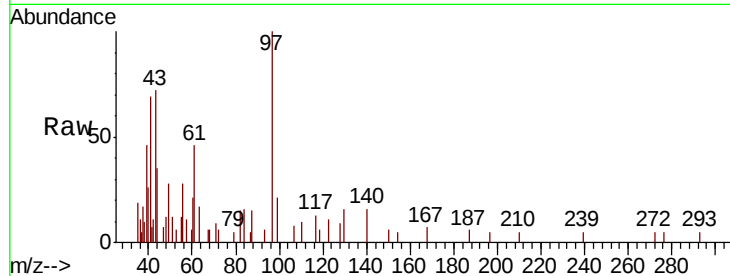
Tot Ion: 97 Resp: 1596

Ion Ratio Lower Upper

97 100

99 178.9 52.4 78.6#

61 168.0 43.4 65.0#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.04 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

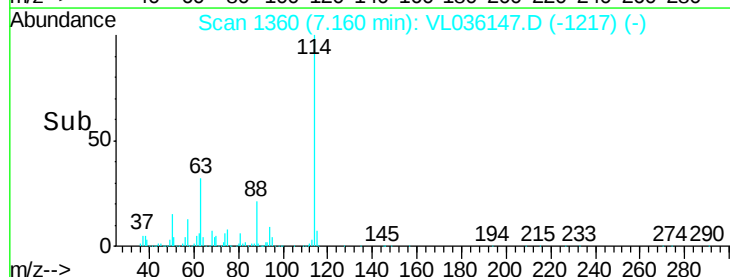
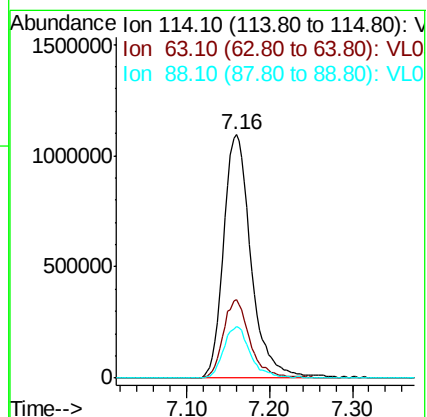
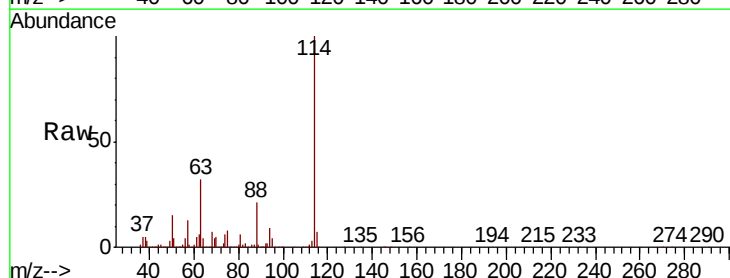
Tgt Ion: 114 Resp: 2518073

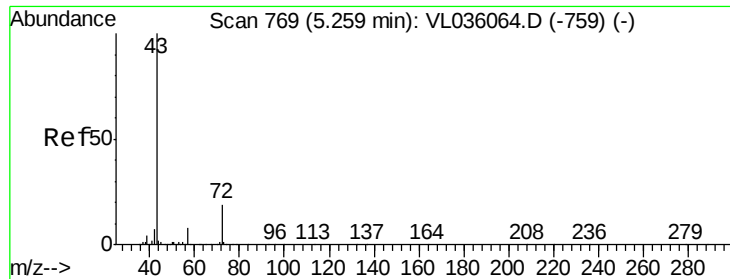
Ion Ratio Lower Upper

114 100

63 31.6 23.6 35.4

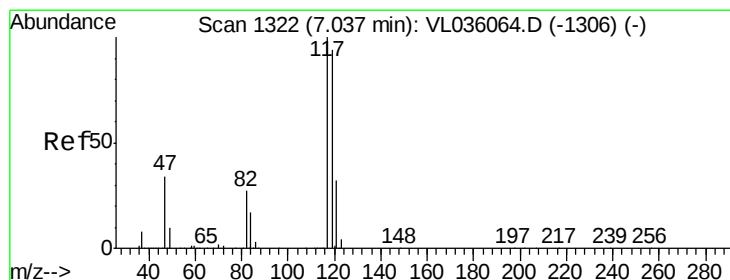
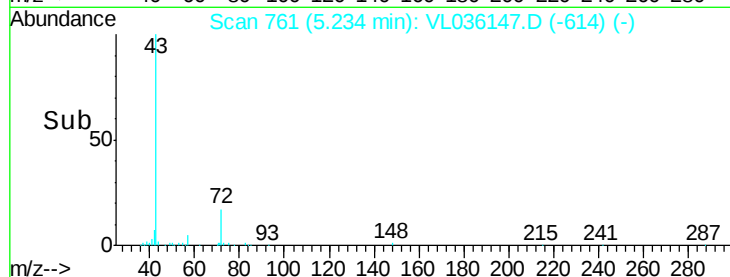
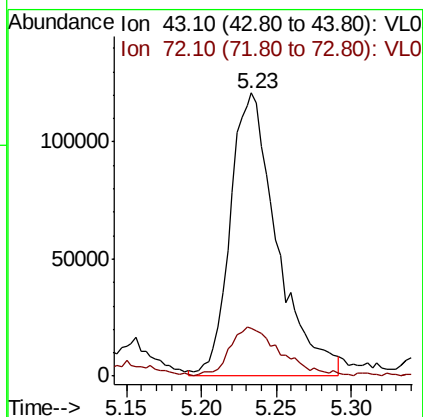
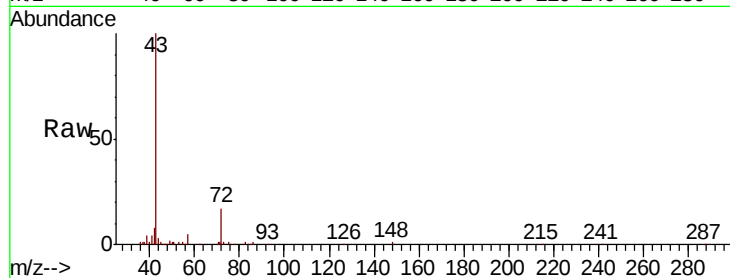
88 20.9 15.8 23.6





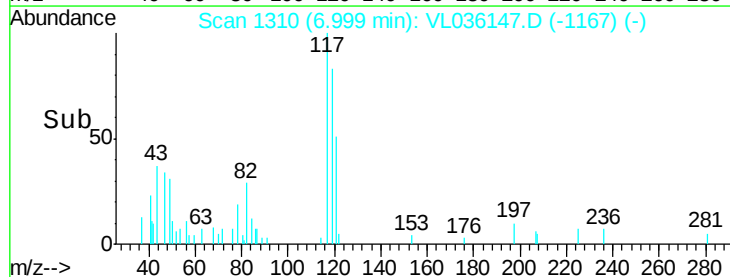
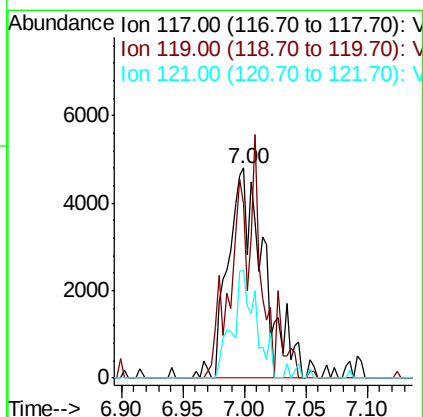
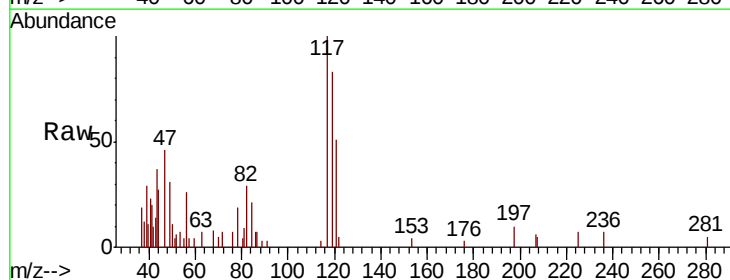
#34
2-Butanone
Concen: 1.577 ppbv m
RT: 5.23 min Scan# 761
Delta R.T. -0.03 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

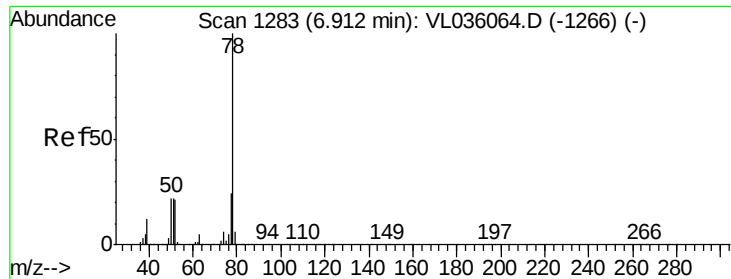
Tot Ion: 43 Resp: 263349
Ion Ratio Lower Upper
43 100
72 19.5 16.5 24.7



#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 7.00 min Scan# 1310
Delta R.T. -0.04 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tgt Ion: 117 Resp: 10064
Ion Ratio Lower Upper
117 100
119 82.9 75.1 112.7
121 51.1 25.6 38.4#





#36

Benzene

Concen: 1.664 ppbv

RT: 6.87 min Scan# 1270

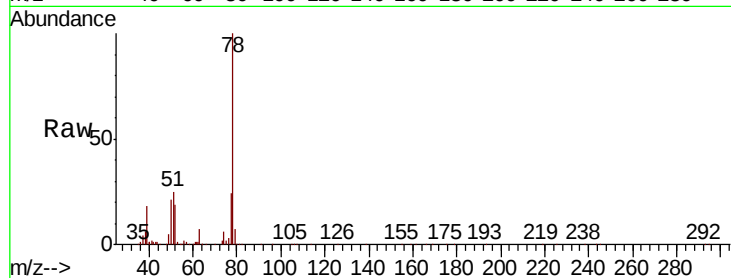
Delta R.T. -0.04 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Tot Ion: 78 Resp: 355042

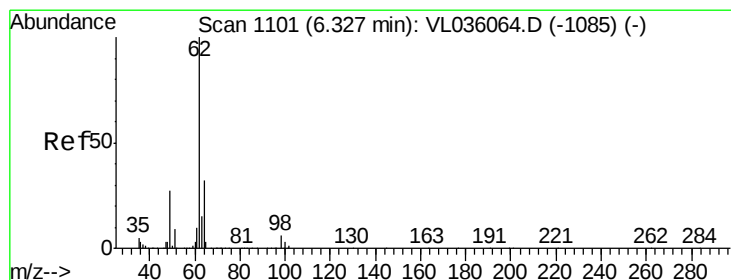
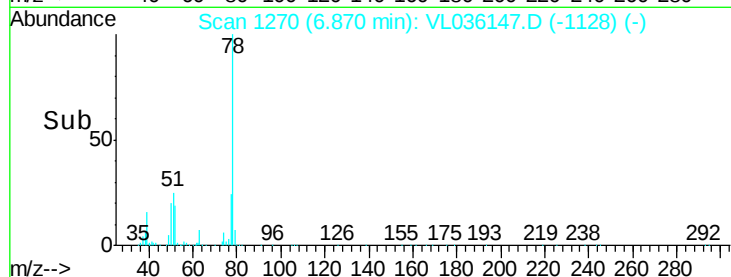
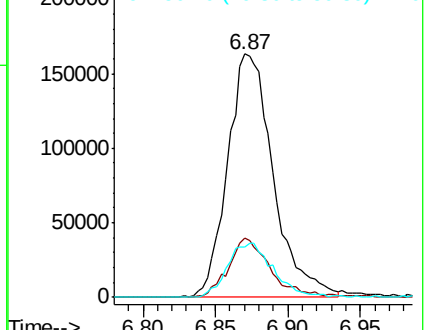
Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.4	29.2
50	20.2	17.8	26.8



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.011 ppbv

RT: 6.29 min Scan# 1091

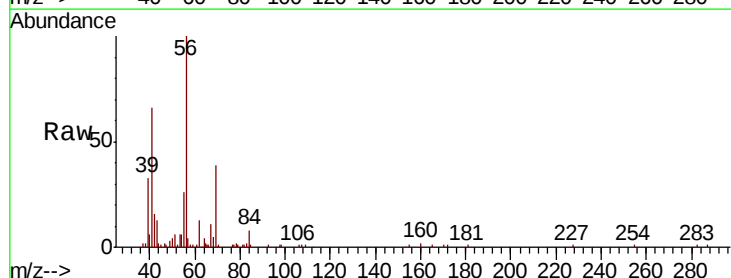
Delta R.T. -0.03 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

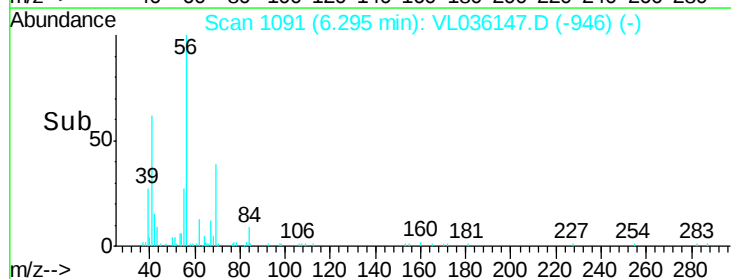
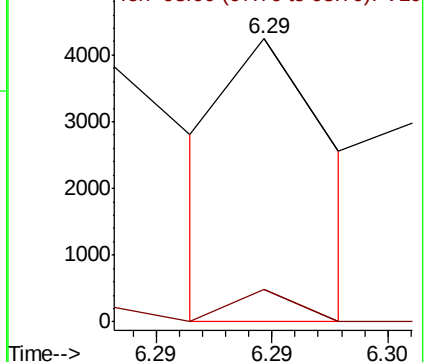
Tgt Ion: 62 Resp: 1311

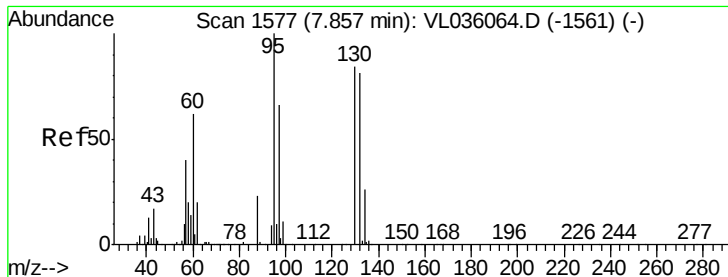
Ion	Ratio	Lower	Upper
62	100		
98	0.0	4.6	7.0#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.019 ppbv

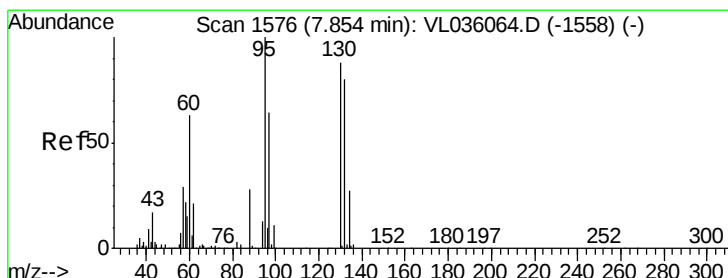
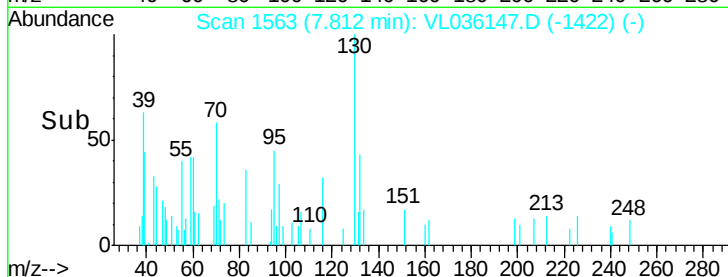
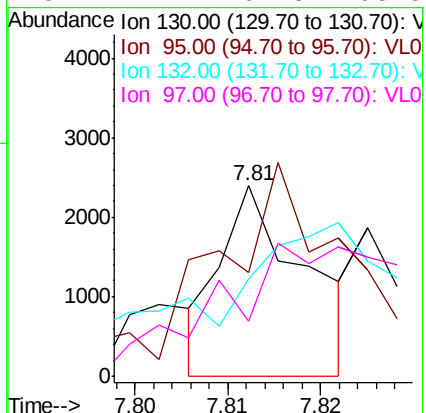
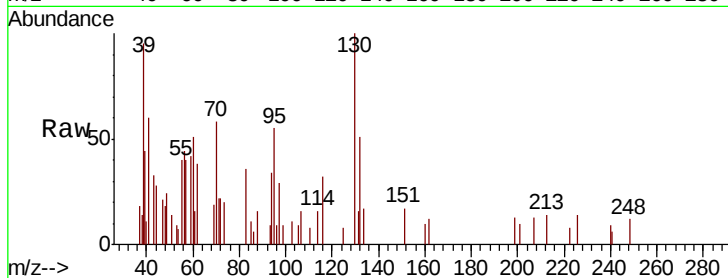
RT: 7.81 min Scan# 1563

Delta R.T. -0.05 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Tot Ion:	130	Resp:	1504
Ion	Ratio	Lower	Upper
130	100		
95	0.0	95.2	142.8#
132	15.9	76.9	115.3#
97	14.1	62.3	93.5#



#40

1,4-Dioxane

Concen: 0.012 ppbv

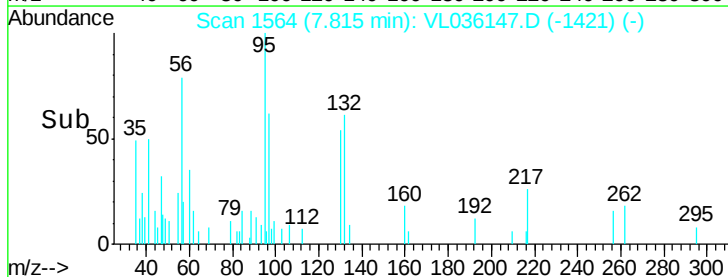
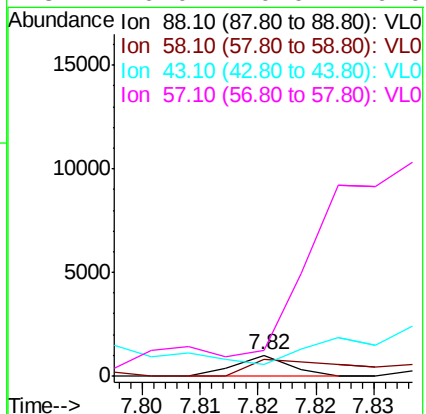
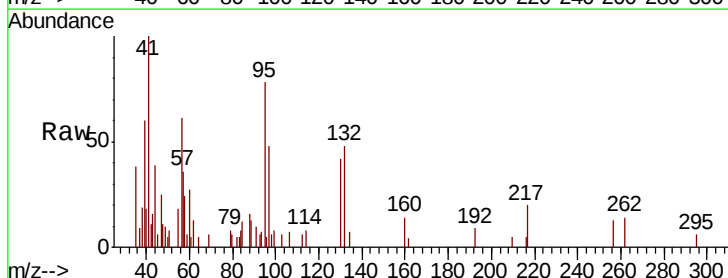
RT: 7.82 min Scan# 1564

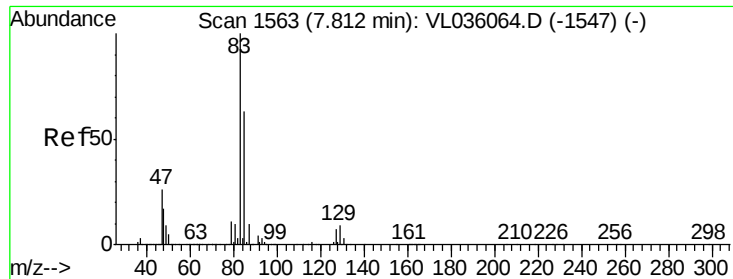
Delta R.T. -0.04 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Tgt Ion:	88	Resp:	326
Ion	Ratio	Lower	Upper
88	100		
58	0.0	122.6	184.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#42

Bromodichloromethane

Concen: 0.004 ppbv

RT: 7.77 min Scan# 1550

Delta R.T. -0.04 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

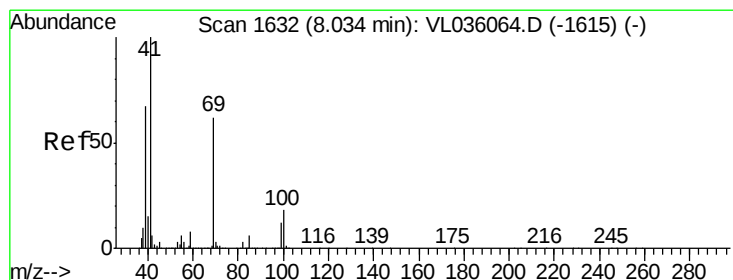
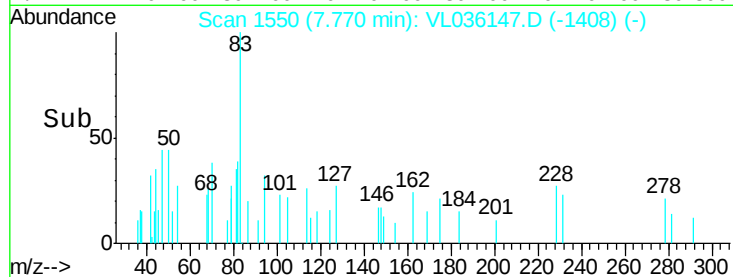
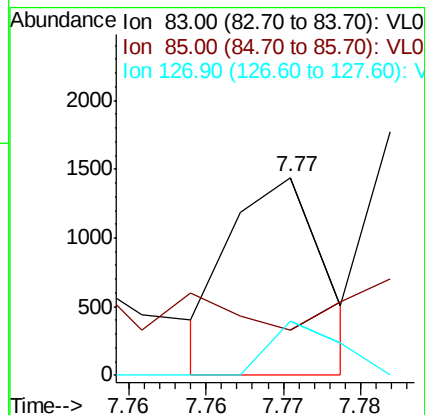
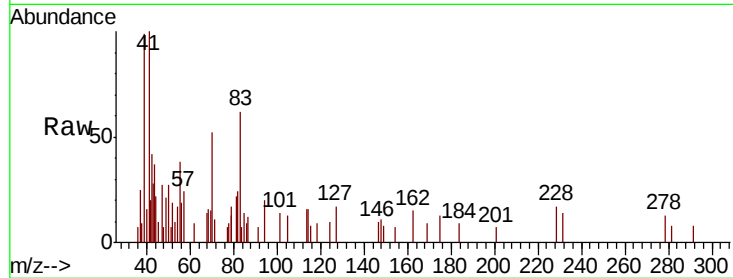
Tot Ion: 83 Resp: 604

Ion Ratio Lower Upper

83 100

85 0.0 50.2 75.2#

127 35.7 5.5 8.3#



#43

Methyl Methacrylate

Concen: 0.024 ppbv

RT: 7.99 min Scan# 1619

Delta R.T. -0.04 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

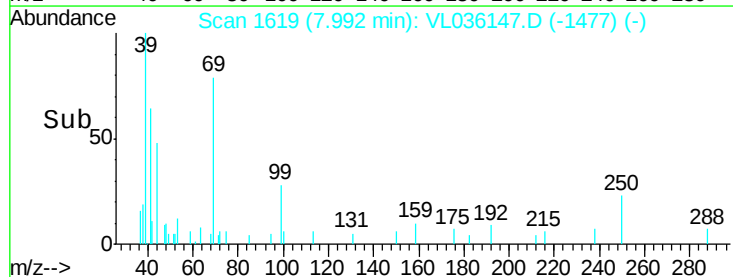
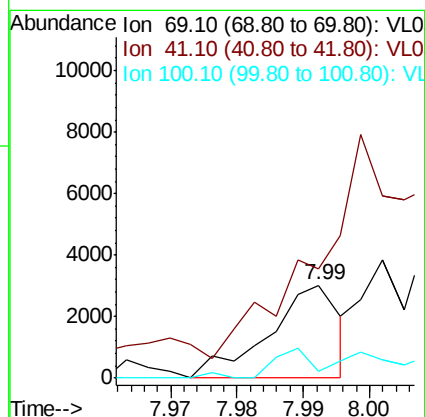
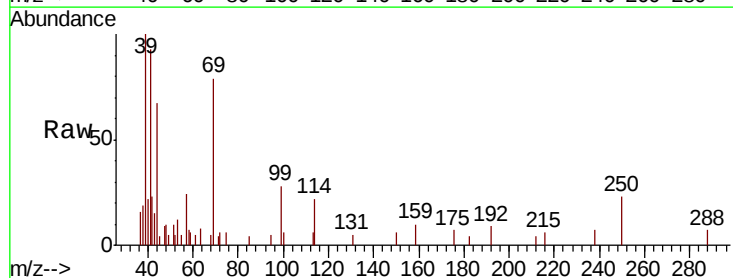
Tgt Ion: 69 Resp: 2239

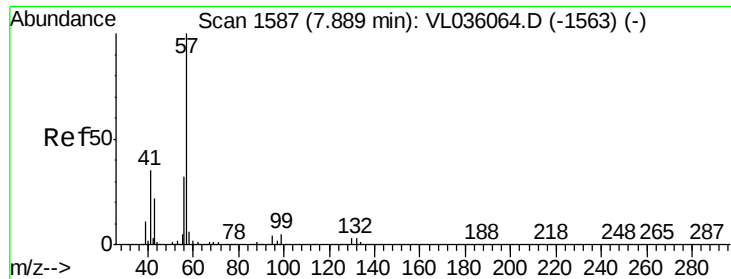
Ion Ratio Lower Upper

69 100

41 0.0 133.0 199.6#

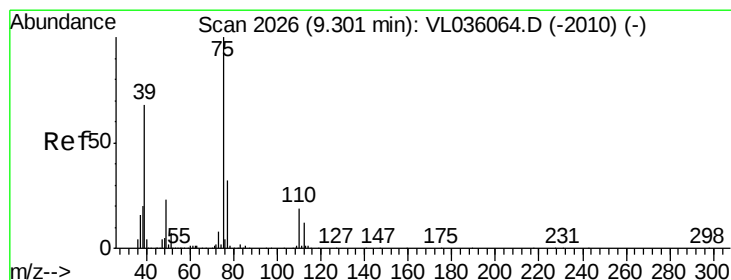
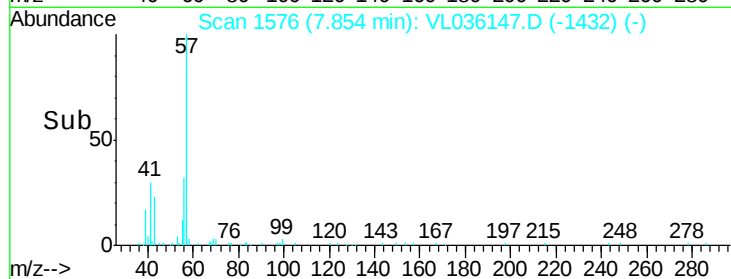
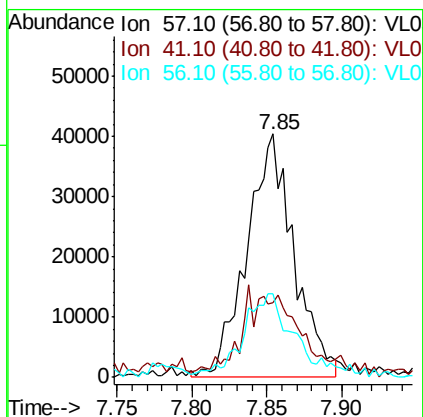
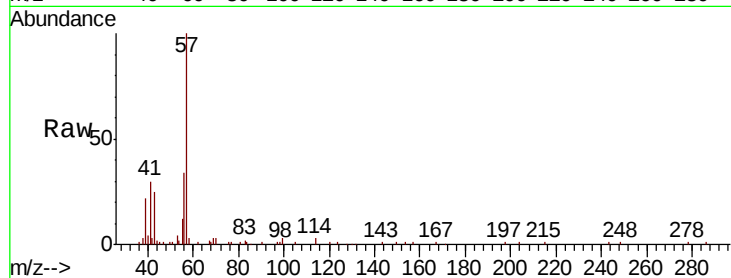
100 38.5 25.4 38.0#





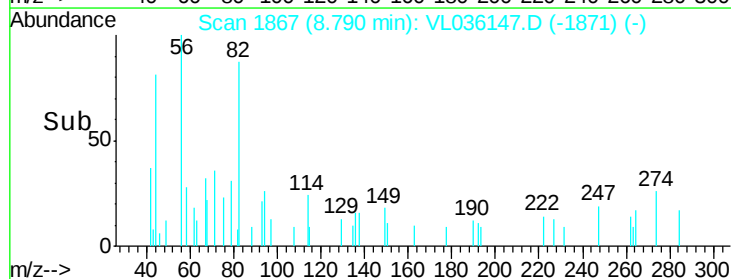
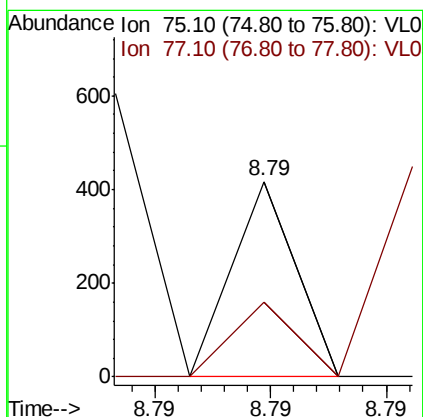
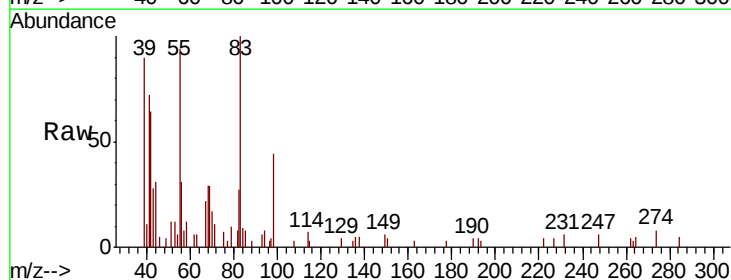
#44
 2,2,4-Trimethylpentane
 Concen: 0.228 ppbv m
 RT: 7.85 min Scan# 1576
 Delta R.T. -0.04 min
 Lab File: VL036147.D
 Acq: 11 Dec 2020 3:28

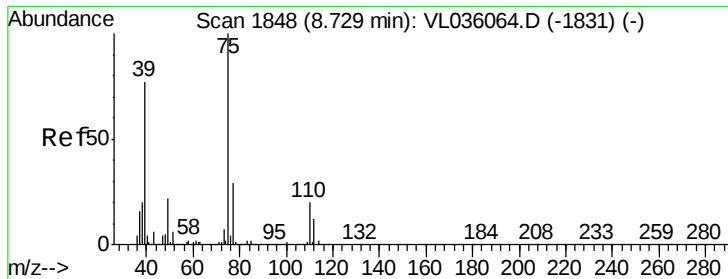
Tot Ion	57	Resp	88162
Ion Ratio	100	Lower	Upper
41	42.1	28.9	43.3
56	38.4	25.3	37.9#



#45
 t-1,3-Dichloropropene
 Concen: 0.001 ppbv
 RT: 8.79 min Scan# 1867
 Delta R.T. -0.51 min
 Lab File: VL036147.D
 Acq: 11 Dec 2020 3:28

Tgt Ion	75	Resp	80
Ion Ratio	100	Lower	Upper
77	38.1	26.0	39.0





#46

cis-1,3-Dichloropropene

Concen: 0.001 ppbv

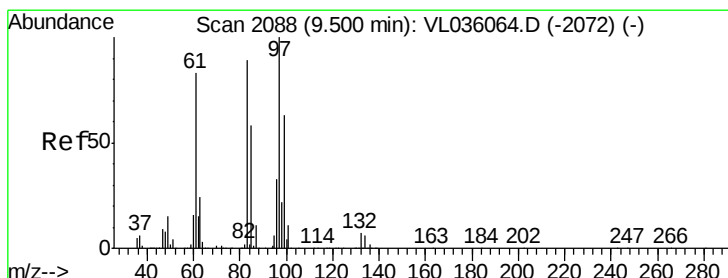
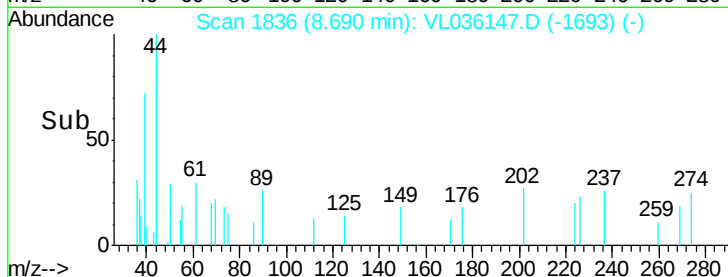
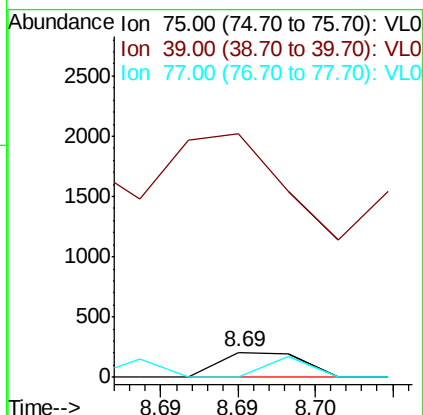
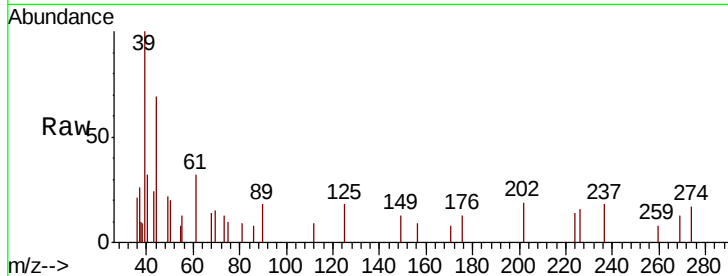
RT: 8.69 min Scan# 1836

Delta R.T. -0.04 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Tot Ion:	75	Resp:	77
Ion	Ratio	Lower	Upper
75	100		
39	427.2	61.6	92.4#
77	0.0	23.0	34.6#



#47

1,1,2-Trichloroethane

Concen: 0.002 ppbv

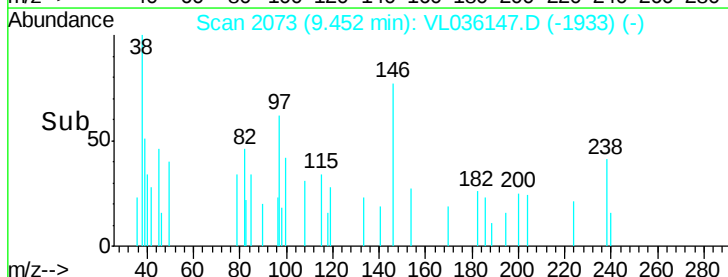
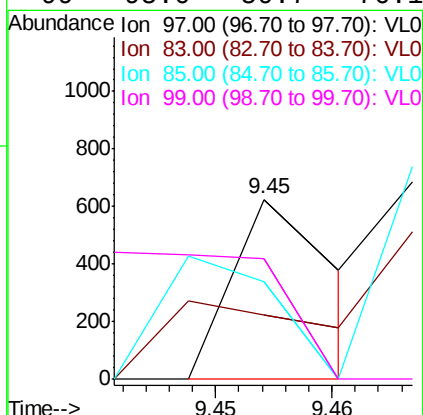
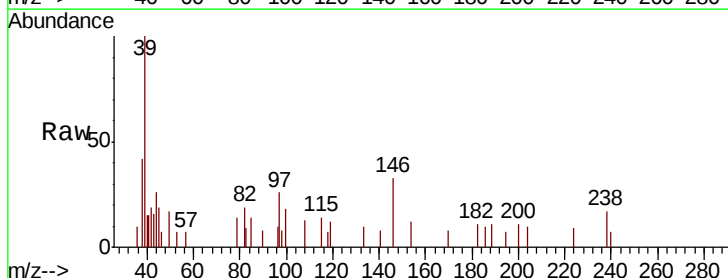
RT: 9.45 min Scan# 2073

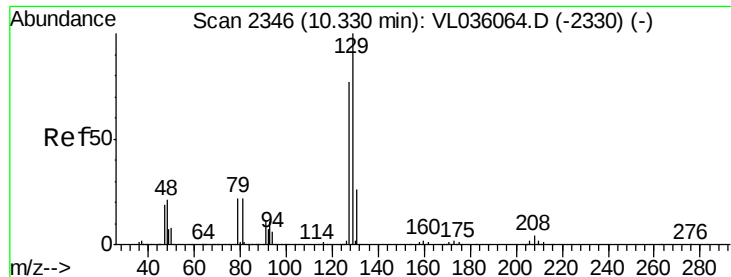
Delta R.T. -0.05 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Tgt Ion:	97	Resp:	193
Ion	Ratio	Lower	Upper
97	100		
83	10.2	71.4	107.2#
85	77.1	46.6	70.0#
99	95.0	50.7	76.1#





#48

Dibromochloromethane

Concen: 0.001 ppbv

RT: 9.92 min Scan# 2217

Delta R.T. -0.41 min

Lab File: VL036147.D

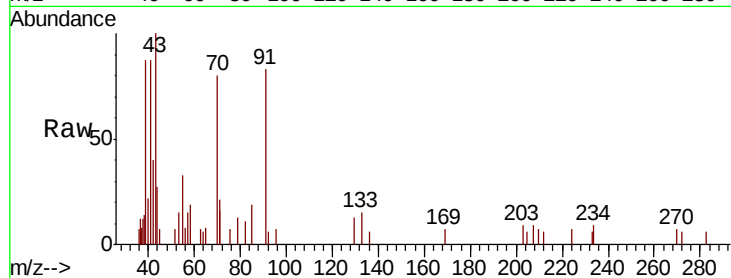
Acq: 11 Dec 2020 3:28

Tot Ion:129 Resp: 102

Ion Ratio Lower Upper

129 100

127 61.8 39.0 117.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

9.92

400

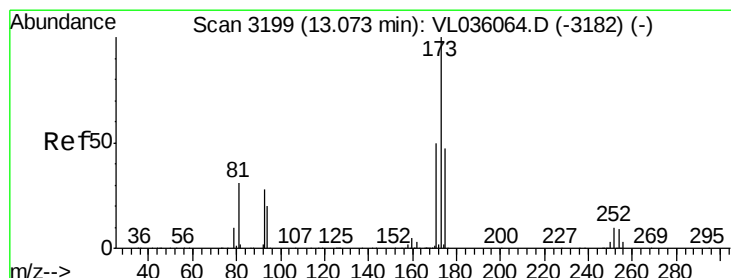
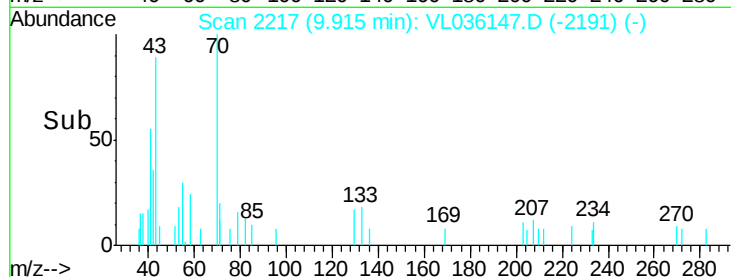
300

200

100

0

Time-->



#49

Bromoform

Concen: 0.002 ppbv

RT: 13.03 min Scan# 3186

Delta R.T. -0.04 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

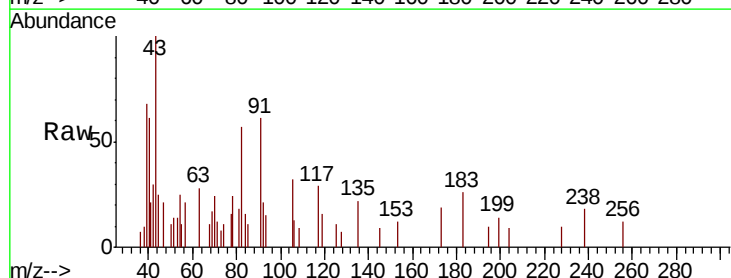
Tgt Ion:173 Resp: 225

Ion Ratio Lower Upper

173 100

175 97.8 39.8 59.6#

171 241.8 42.5 63.7#



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

1000

800

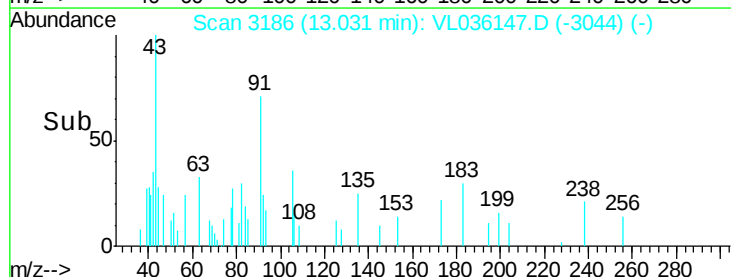
600

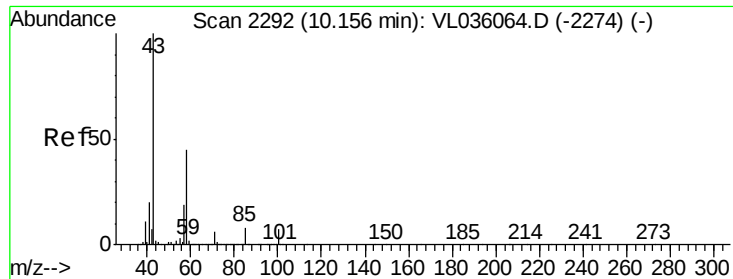
400

200

0

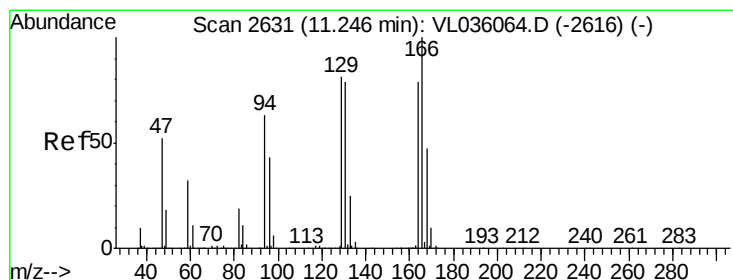
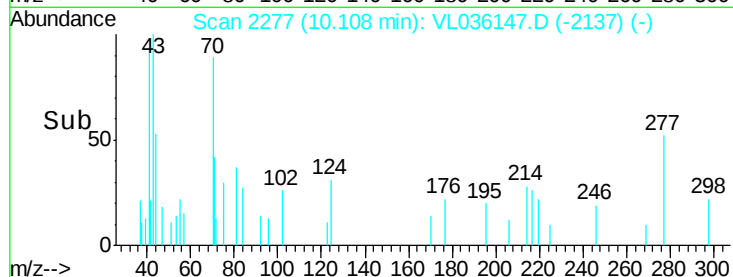
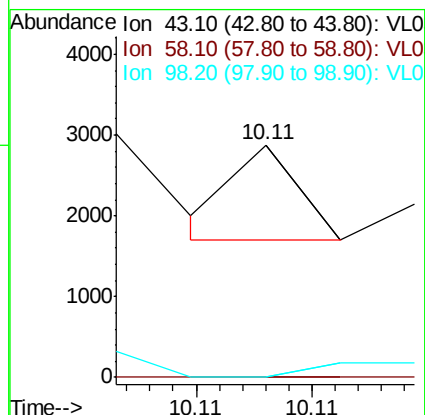
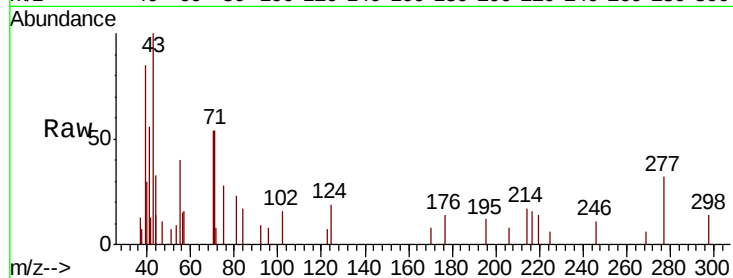
Time-->





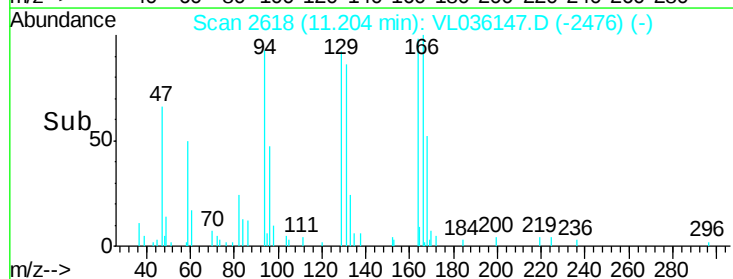
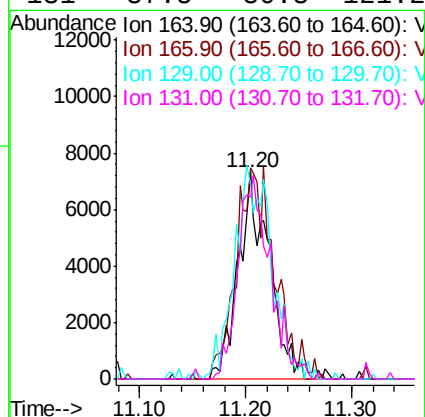
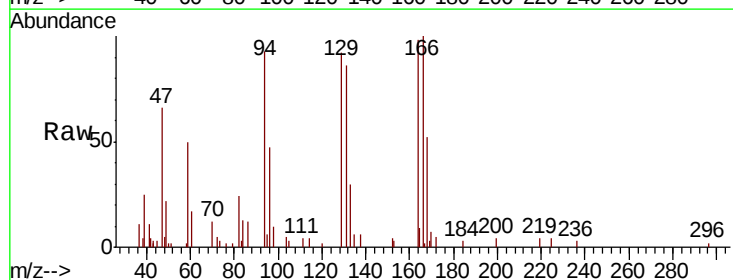
#51
2-Hexanone
Concen: 0.001 ppbv
RT: 10.11 min Scan# 2277
Delta R.T. -0.05 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

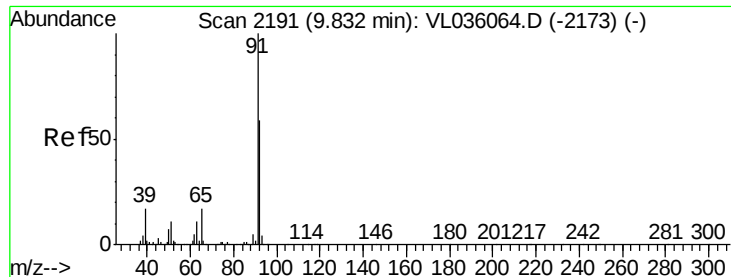
Tot Ion: 43 Resp: 227
Ion Ratio Lower Upper
43 100
58 0.0 38.7 58.1#
98 56.8 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.193 ppbv m
RT: 11.20 min Scan# 2618
Delta R.T. -0.04 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tgt Ion: 164 Resp: 14906
Ion Ratio Lower Upper
164 100
166 101.9 101.9 152.9
129 93.7 82.1 123.1
131 87.5 80.8 121.2





#53

Toluene

Concen: 1.263 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. -0.04 min

Lab File: VL036147.D

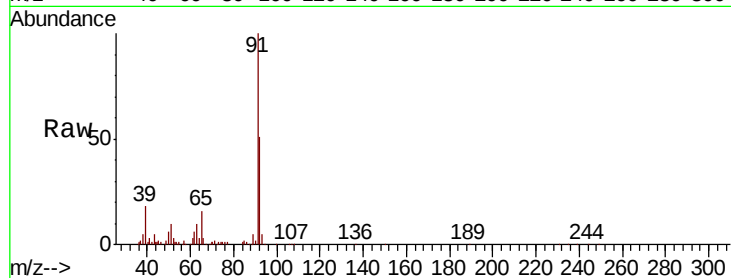
Acq: 11 Dec 2020 3:28

Tot Ion: 91 Resp: 302560

Ion Ratio Lower Upper

91 100

92 59.1 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

150000

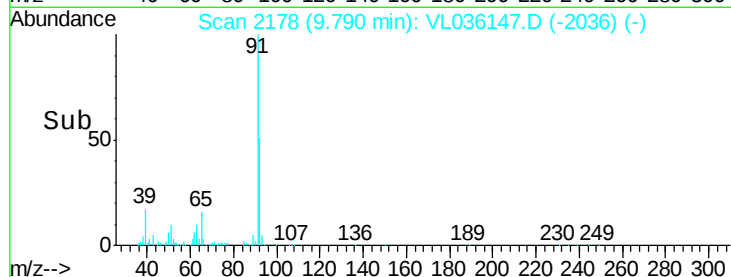
100000

50000

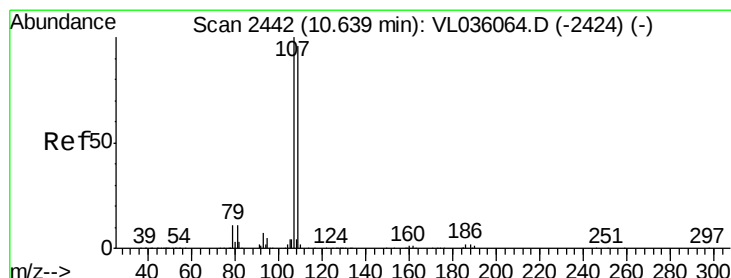
0

9.79

9.75 9.80 9.85 9.90



Time-->



#54

1,2-Dibromoethane

Concen: 0.002 ppbv

RT: 10.60 min Scan# 2430

Delta R.T. -0.04 min

Lab File: VL036147.D

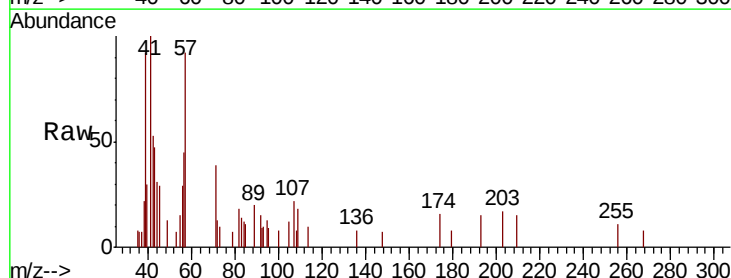
Acq: 11 Dec 2020 3:28

Tgt Ion: 107 Resp: 196

Ion Ratio Lower Upper

107 100

109 81.4 76.6 115.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

1200

1000

800

600

400

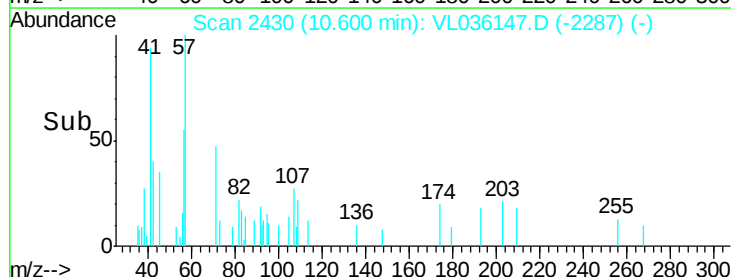
200

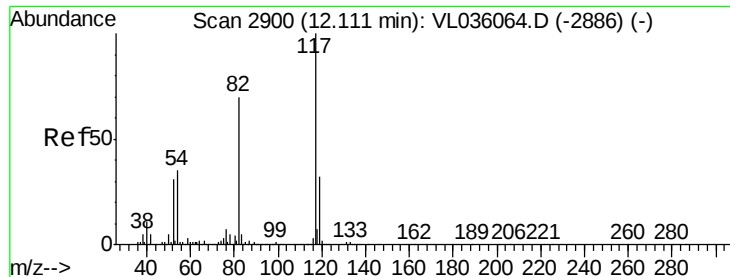
0

10.60

10.61

Time-->

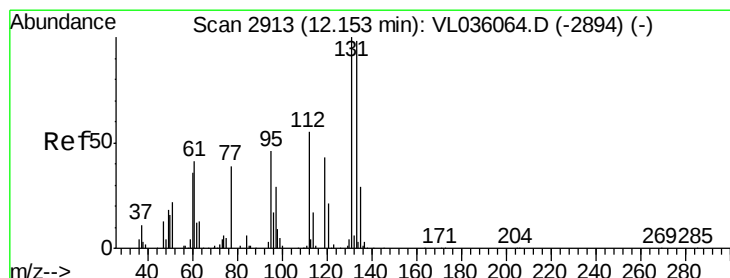
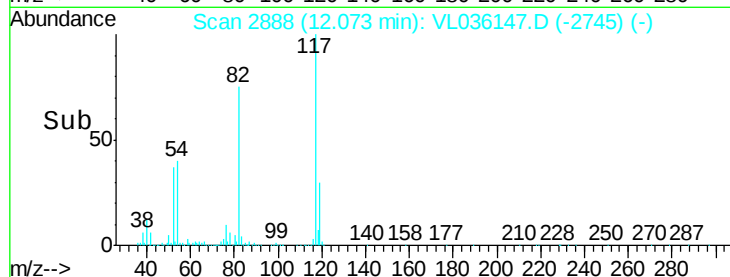
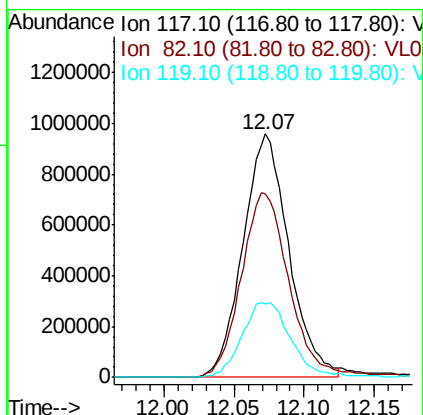
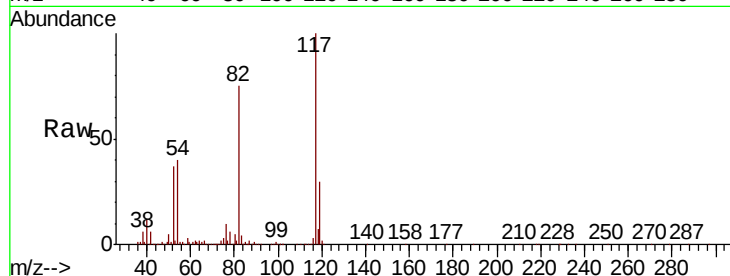




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2888
Delta R.T. -0.04 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tot Ion:117 Resp: 2179682

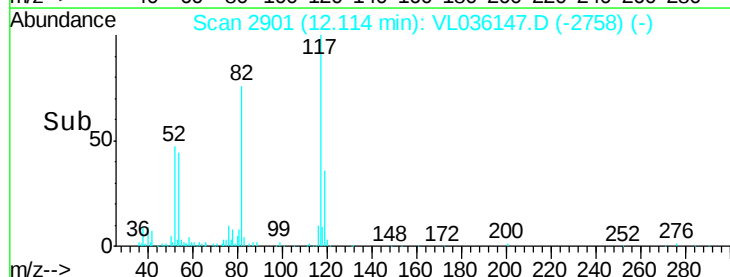
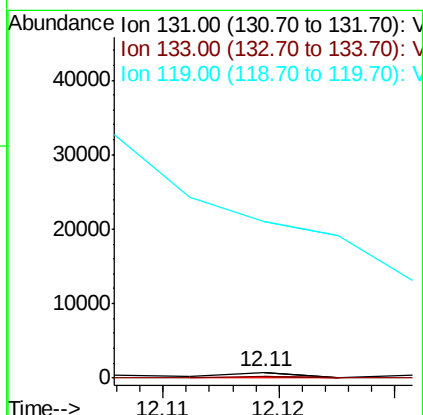
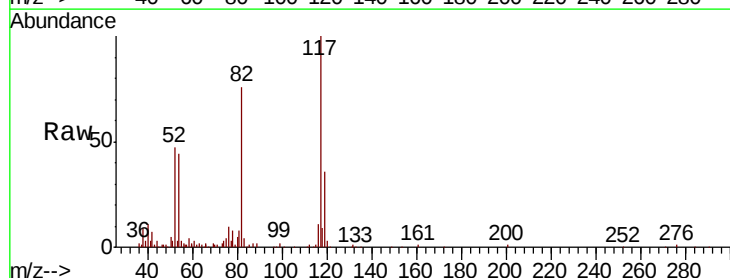
Ion	Ratio	Lower	Upper
117	100		
82	80.9	0.0	0.0#
119	33.6	0.0	0.0#

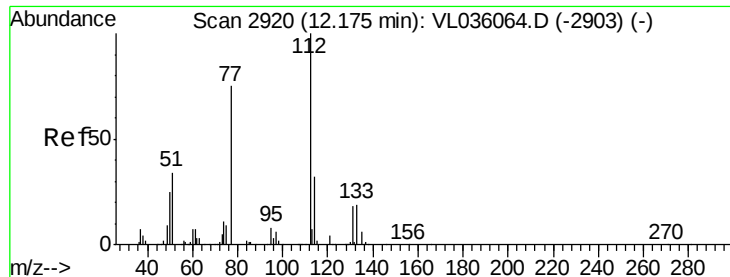


#56
1,1,1,2-Tetrachloroethane
Concen: 0.002 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. -0.04 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tgt Ion:131 Resp: 150

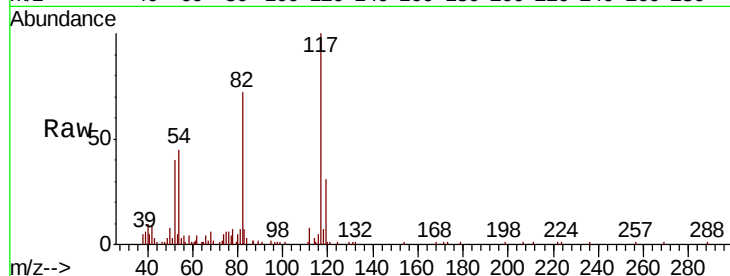
Ion	Ratio	Lower	Upper
131	100		
133	0.0	77.7	116.5#
119	0.0	51.6	77.4#



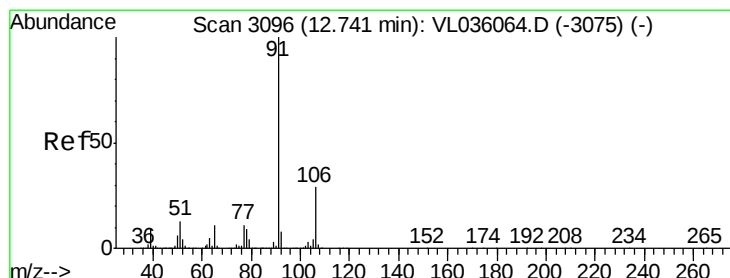
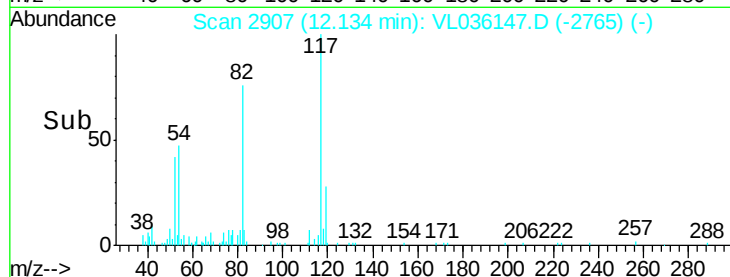
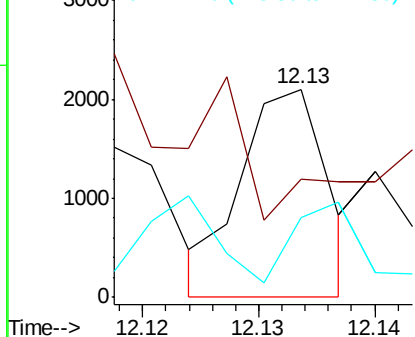


#57
Chlorobenzene
Concen: 0.007 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.04 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tot Ion: 112 Resp: 1084
Ion Ratio Lower Upper
112 100
77 0.0 60.5 90.7#
114 0.0 29.2 35.6#

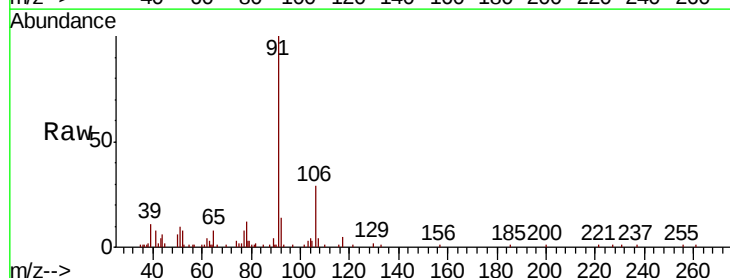


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

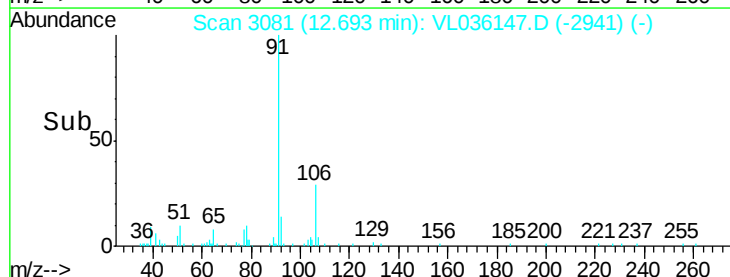
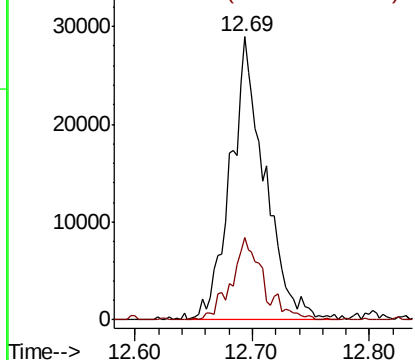


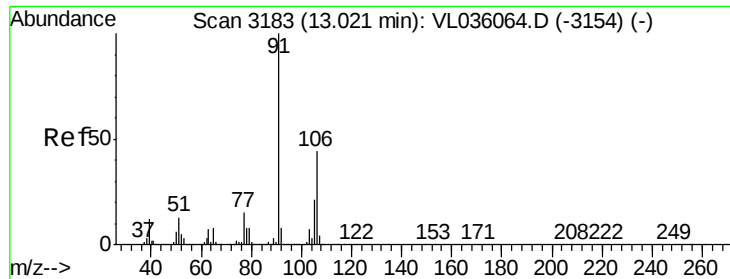
#58
Ethyl Benzene
Concen: 0.198 ppbv m
RT: 12.69 min Scan# 3081
Delta R.T. -0.05 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tgt Ion: 91 Resp: 59272
Ion Ratio Lower Upper
91 100
106 29.2 23.0 34.4



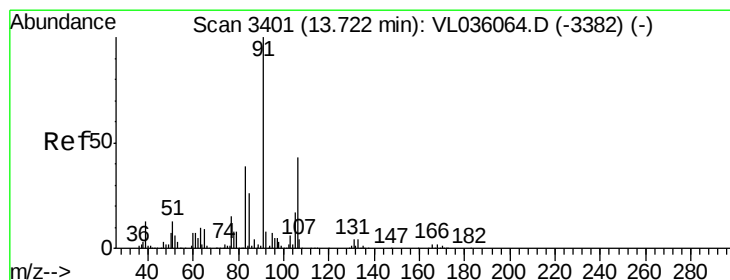
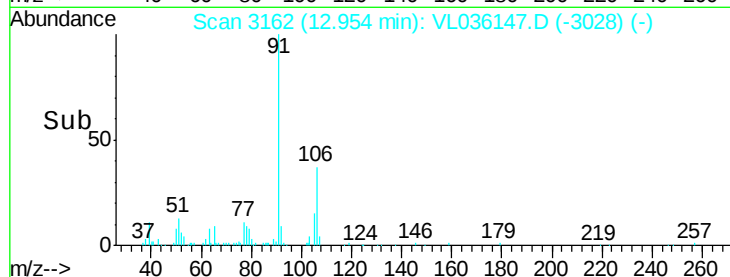
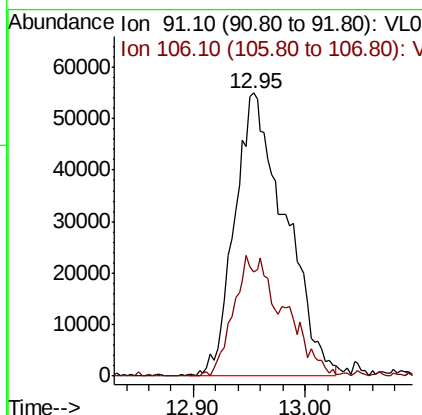
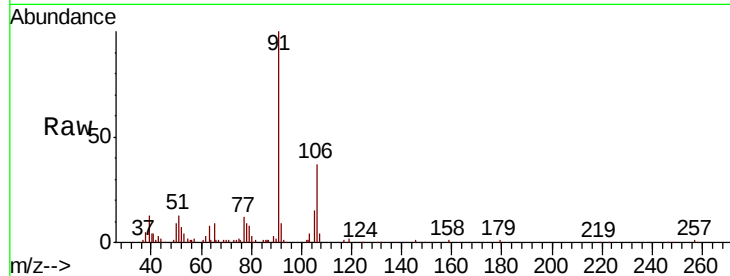
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





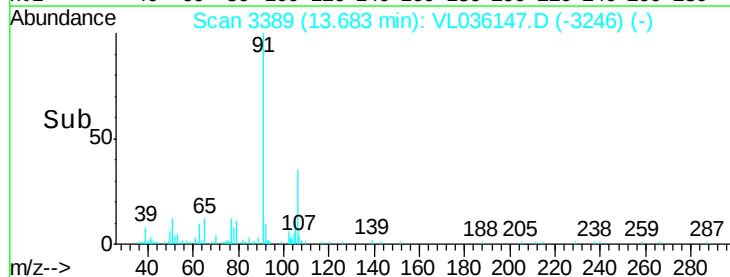
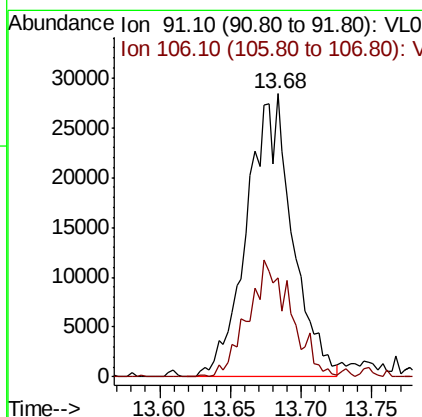
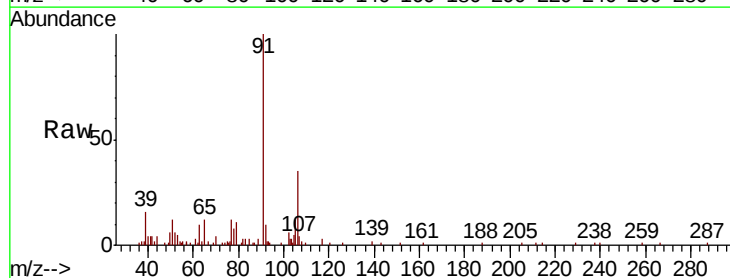
#59
m/p-Xylene
Concen: 0.685 ppbv m
RT: 12.95 min Scan# 3162
Delta R.T. -0.07 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

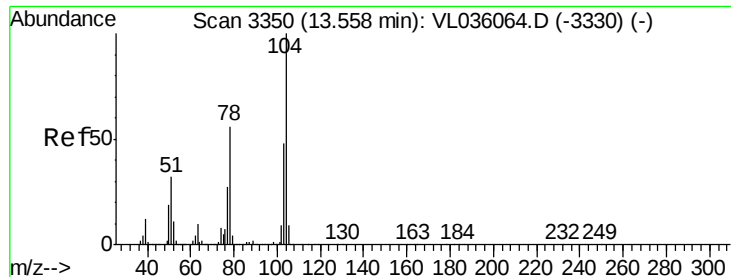
Tot Ion: 91 Resp: 172447
Ion Ratio Lower Upper
91 100
106 0.0 33.6 50.4#



#60
o-Xylene
Concen: 0.267 ppbv m
RT: 13.68 min Scan# 3389
Delta R.T. -0.04 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

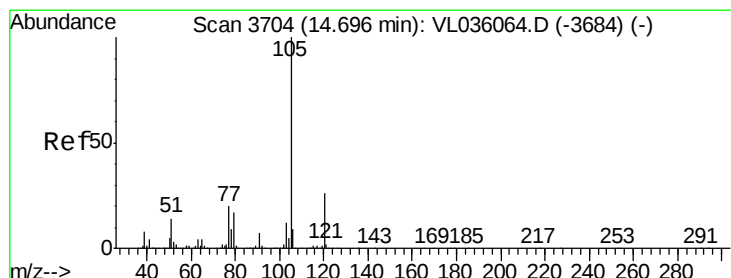
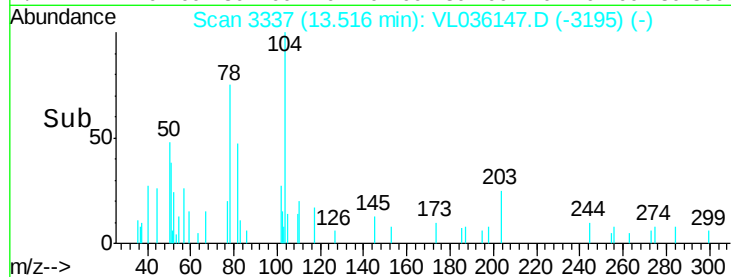
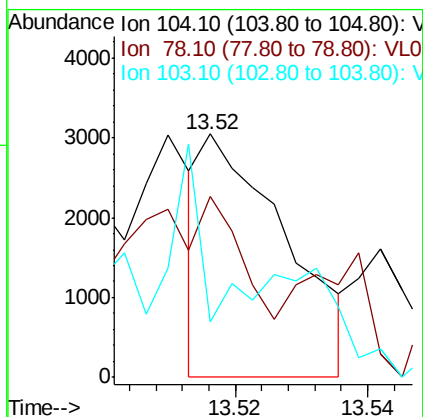
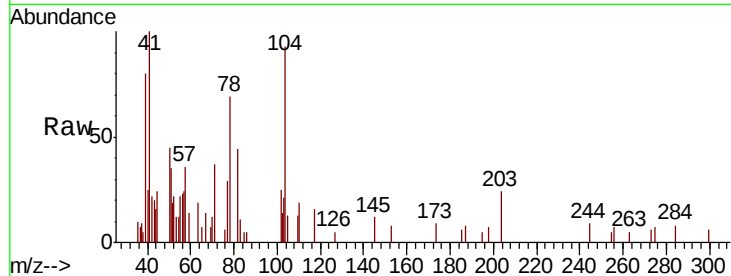
Tgt Ion: 91 Resp: 63369
Ion Ratio Lower Upper
91 100
106 39.5 21.6 64.6





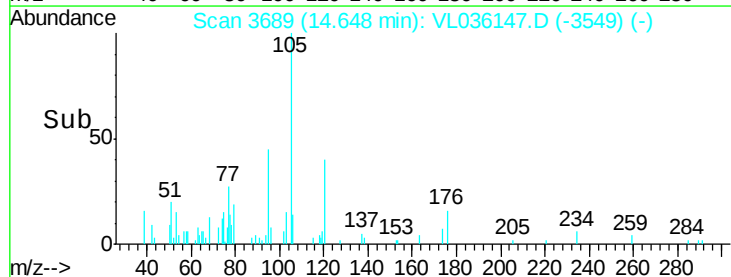
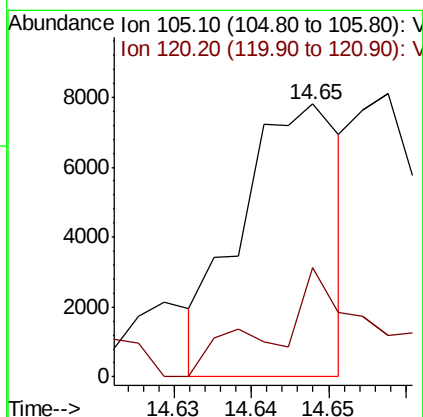
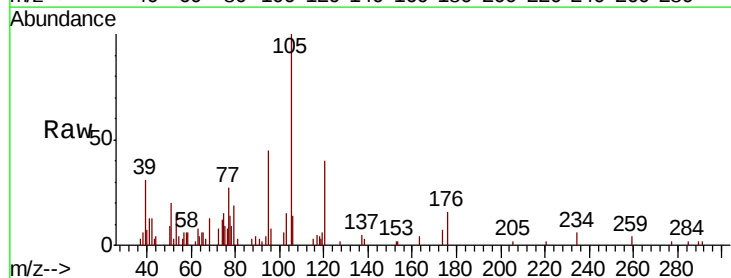
#61
Stvrene
Concen: 0.018 ppbv
RT: 13.52 min Scan# 3337
Delta R.T. -0.04 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

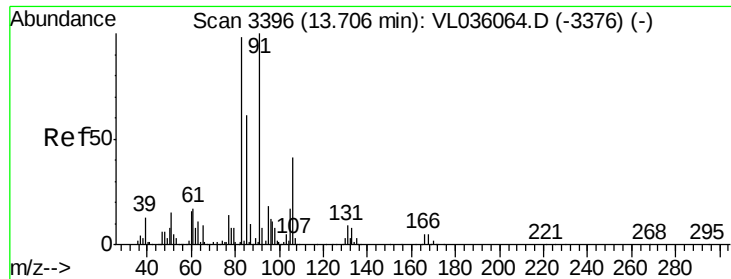
Tot Ion:104 Resp: 2694
Ion Ratio Lower Upper
104 100
78 215.4 45.8 68.8#
103 140.6 38.6 57.8#



#62
Isopropylbenzene
Concen: 0.020 ppbv
RT: 14.65 min Scan# 3689
Delta R.T. -0.05 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tgt Ion:105 Resp: 6943
Ion Ratio Lower Upper
105 100
120 71.8 20.1 30.1#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.004 ppbv

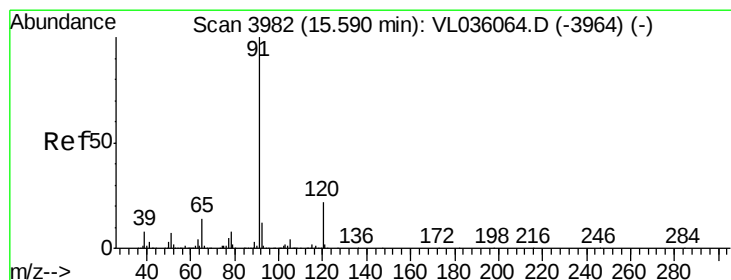
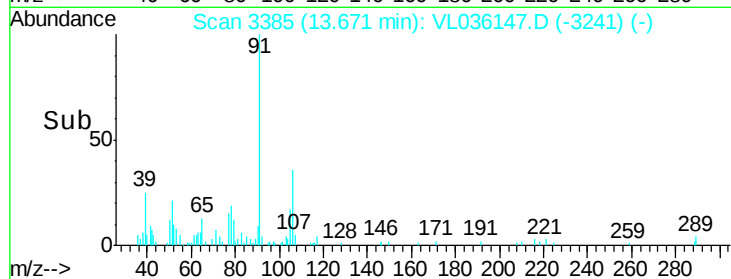
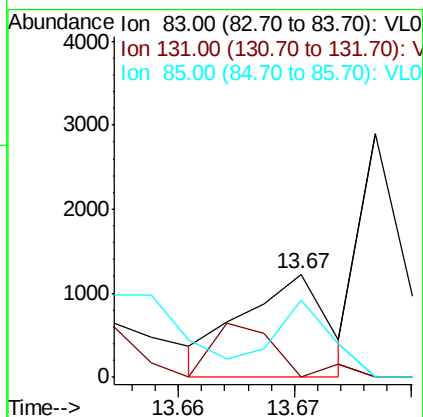
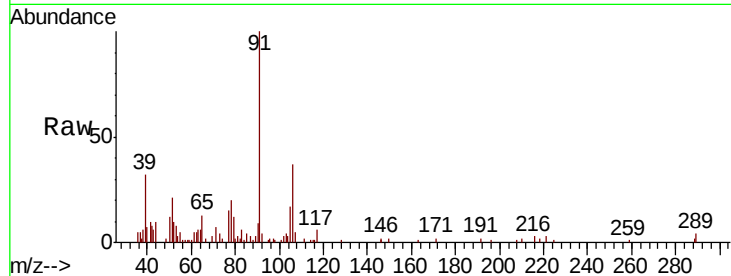
RT: 13.67 min Scan# 3385

Delta R.T. -0.04 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Tot Ion:	83	Resp:	617
Ion	Ratio	Lower	Upper
83	100		
131	70.5	4.6	13.8#
85	0.0	32.5	97.5#



#64

n-propylbenzene

Concen: 0.004 ppbv

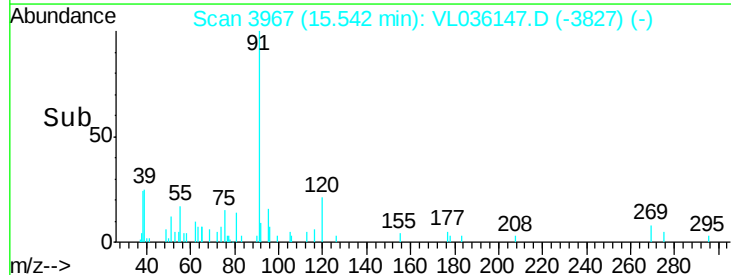
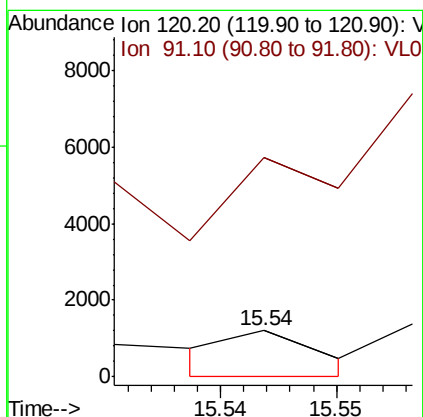
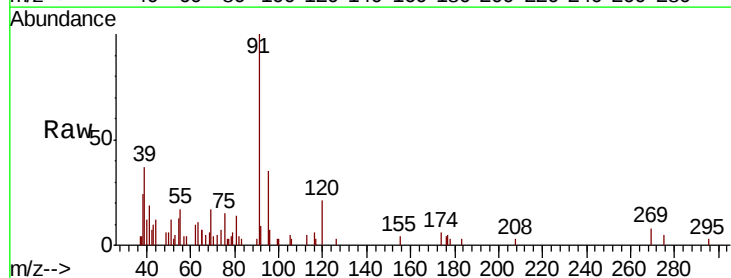
RT: 15.54 min Scan# 3967

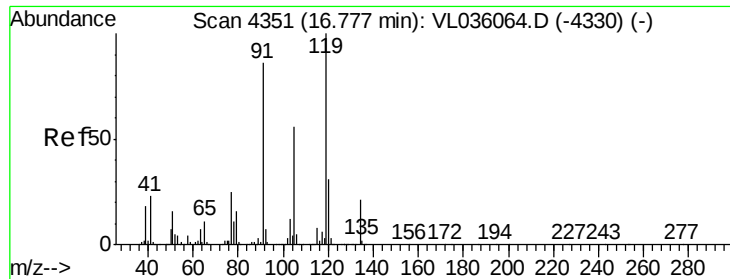
Delta R.T. -0.05 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Tgt Ion:	120	Resp:	324
Ion	Ratio	Lower	Upper
120	100		
91	0.0	388.9	583.3#





#65

tert-Butylbenzene

Concen: 0.004 ppbv

RT: 16.73 min Scan# 4335

Delta R.T. -0.05 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

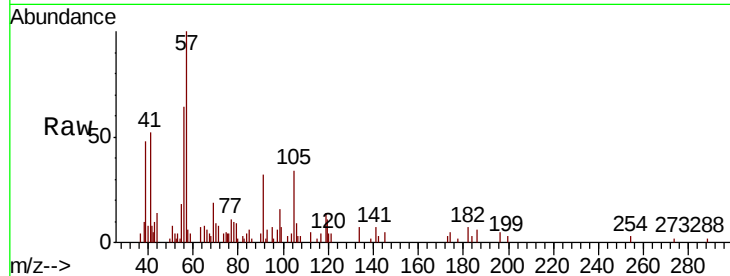
Tot Ion: 119 Resp: 1288

Ion Ratio Lower Upper

119 100

91 0.0 70.2 105.2#

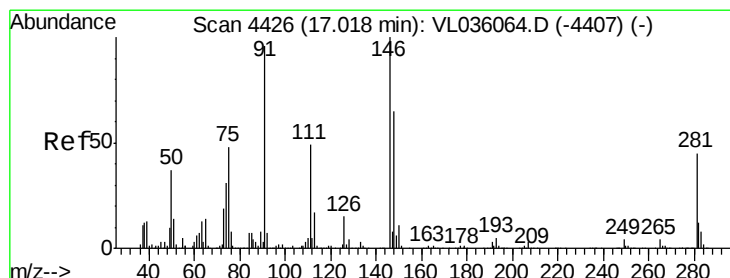
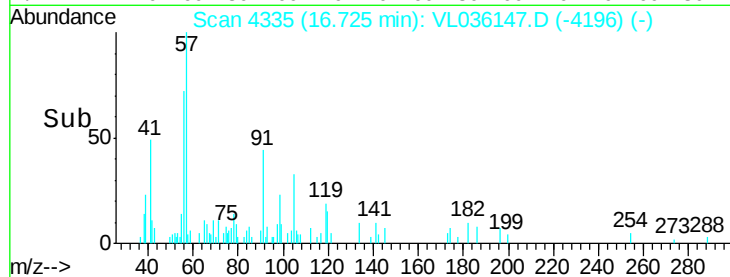
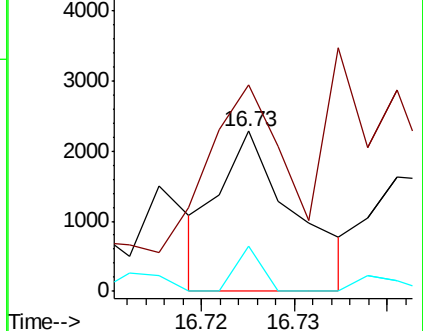
134 22.7 15.8 23.6



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.003 ppbv

RT: 16.96 min Scan# 4409

Delta R.T. -0.05 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

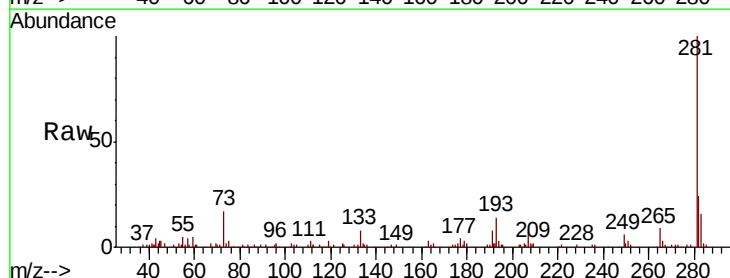
Tgt Ion: 91 Resp: 210

Ion Ratio Lower Upper

91 100

126 0.0 13.5 20.3#

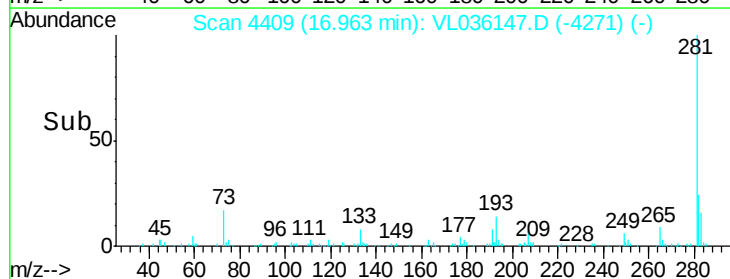
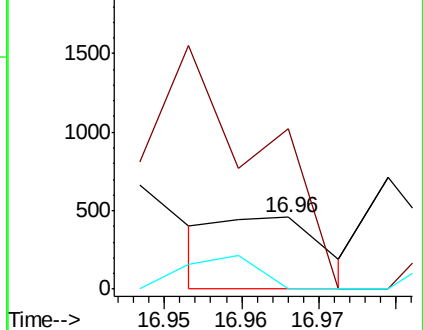
128 51.9 4.4 6.6#

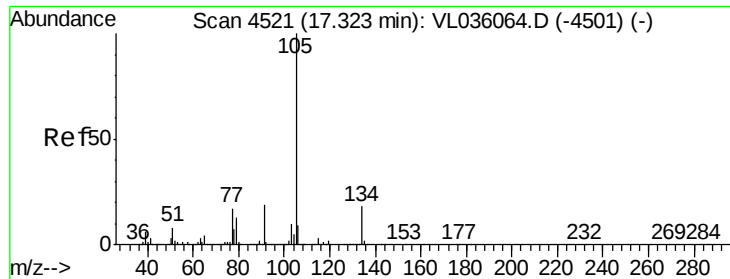


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

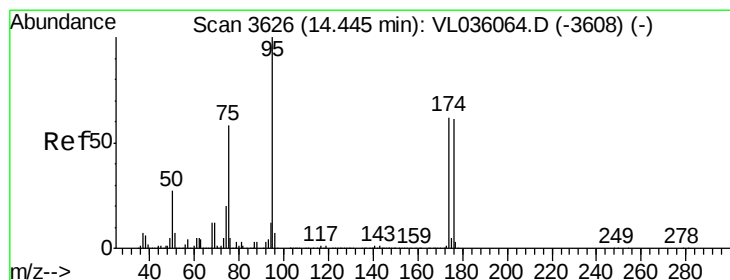
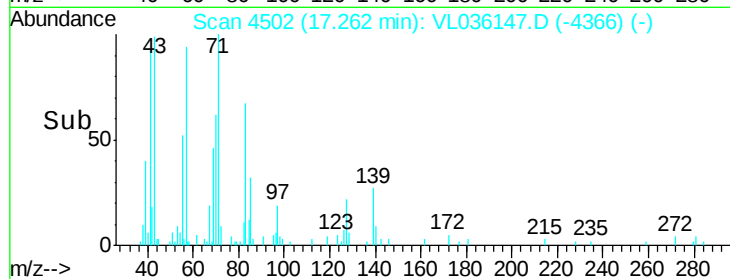
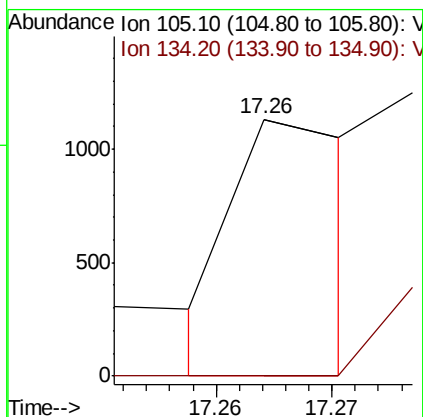
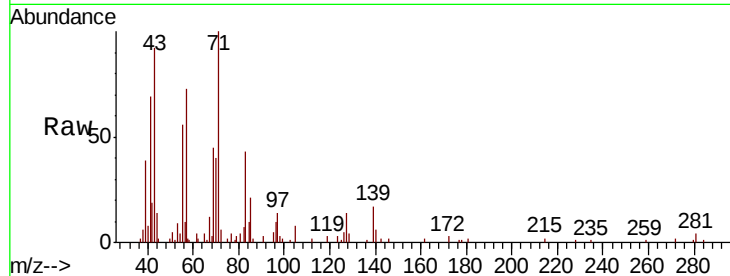
Ion 128.10 (127.80 to 128.80): V





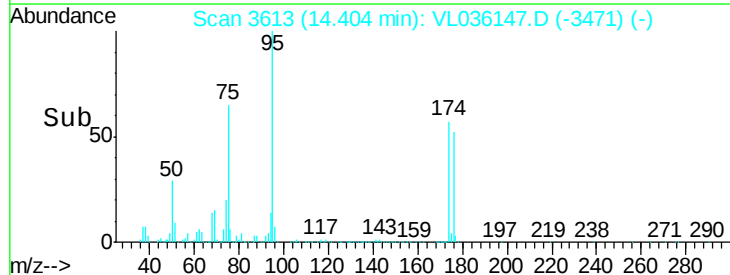
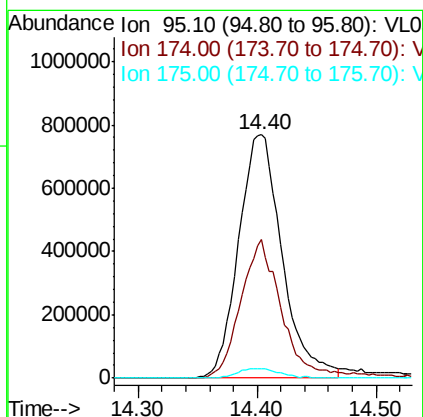
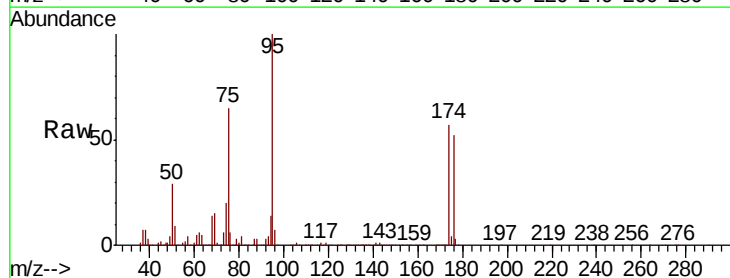
#67
 sec-Butylbenzene
 Concen: 0.001 ppbv
 RT: 17.26 min Scan# 4502
 Delta R.T. -0.06 min
 Lab File: VL036147.D
 Acq: 11 Dec 2020 3:28

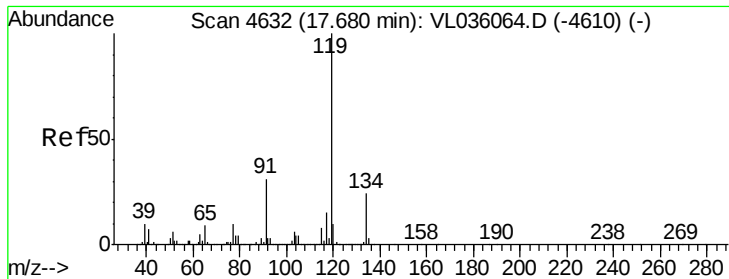
Tot Ion: 105 Resp: 422
 Ion Ratio Lower Upper
 105 100
 134 0.0 14.2 21.4#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.255 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T. -0.04 min
 Lab File: VL036147.D
 Acq: 11 Dec 2020 3:28

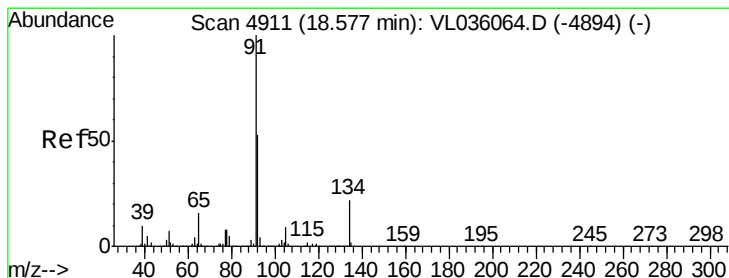
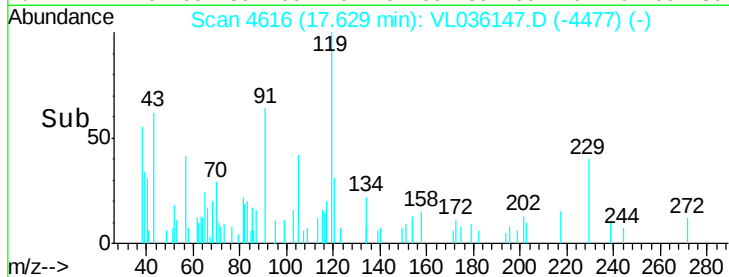
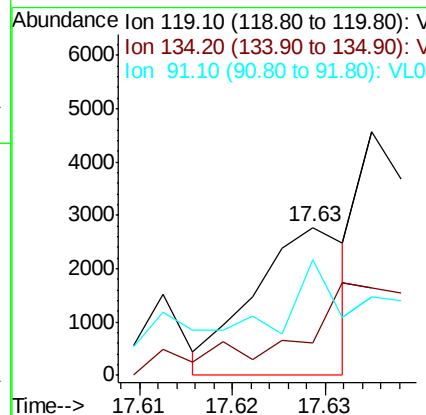
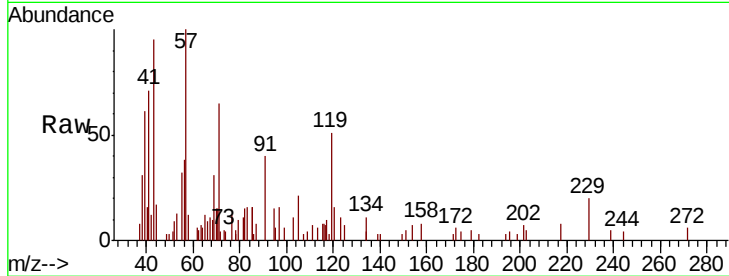
Tgt Ion: 95 Resp: 1948029
 Ion Ratio Lower Upper
 95 100
 174 54.9 50.7 76.1
 175 4.0 4.0 6.0#





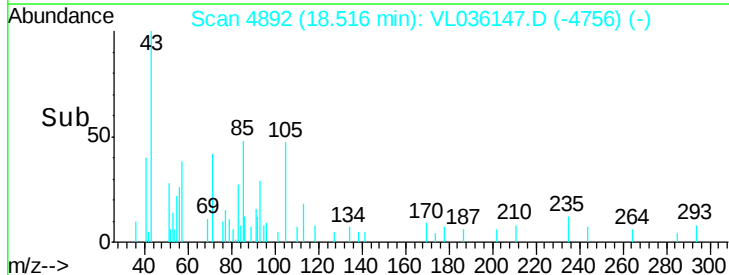
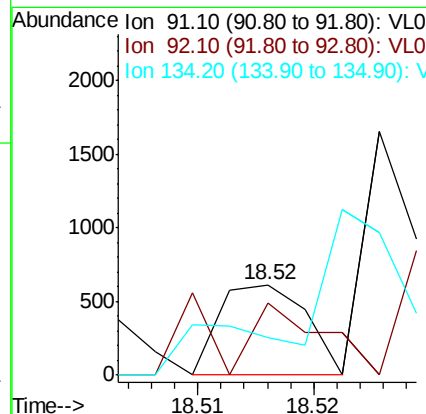
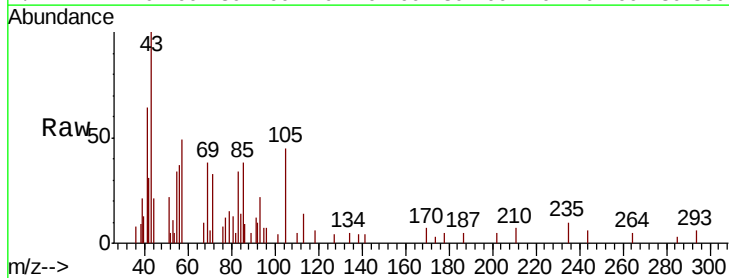
#69
 p-Isopropyltoluene
 Concen: 0.006 ppbv
 RT: 17.63 min Scan# 4616
 Delta R.T. -0.05 min
 Lab File: VL036147.D
 Acq: 11 Dec 2020 3:28

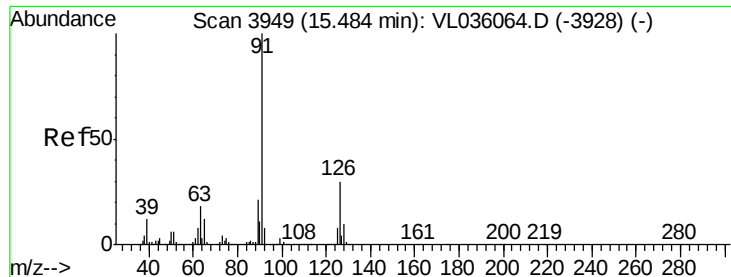
Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	19.8	29.6#
91	0.0	25.8	38.6#



#70
 n-Butylbenzene
 Concen: 0.001 ppbv
 RT: 18.52 min Scan# 4892
 Delta R.T. -0.06 min
 Lab File: VL036147.D
 Acq: 11 Dec 2020 3:28

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	43.3	64.9#
134	326.8	17.1	25.7#





#71

2-Chlorotoluene

Concen: 0.006 ppbv

RT: 15.45 min Scan# 3937

Delta R.T. -0.04 min

Lab File: VL036147.D

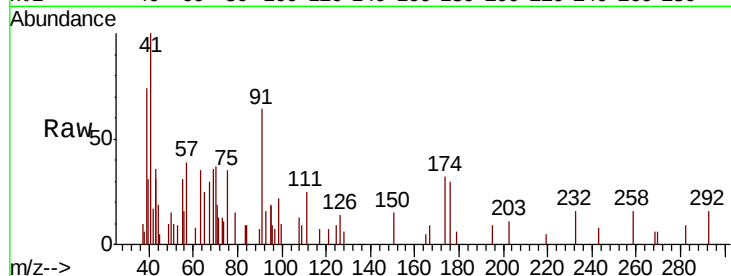
Acq: 11 Dec 2020 3:28

Tot Ion: 91 Resp: 1478

Ion Ratio Lower Upper

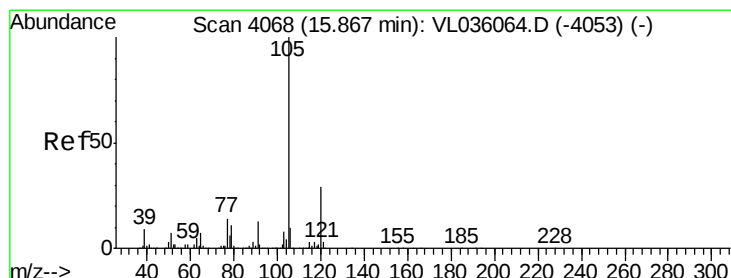
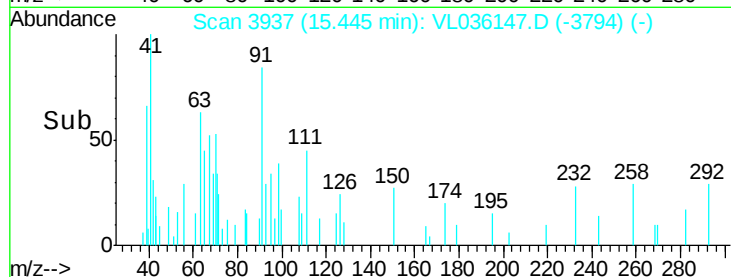
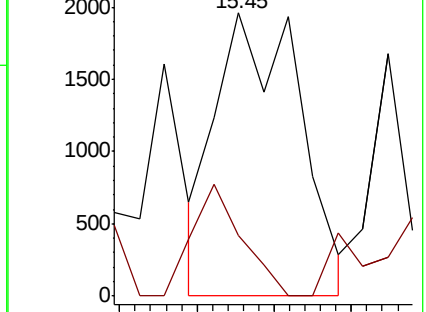
91 100

126 32.7 11.6 46.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.017 ppbv

RT: 15.82 min Scan# 4053

Delta R.T. -0.05 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Tgt Ion: 105 Resp: 4374

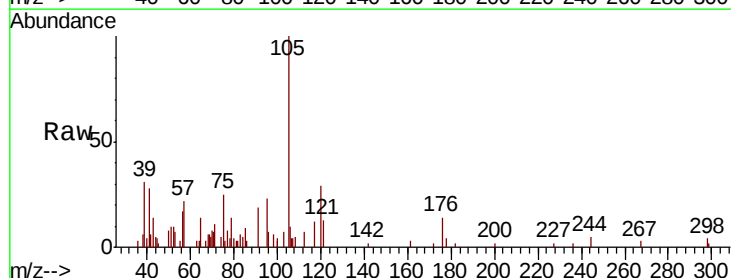
Ion Ratio Lower Upper

105 100

120 0.0 23.6 35.4#

91 0.0 11.4 17.0#

77 0.0 12.1 18.1#

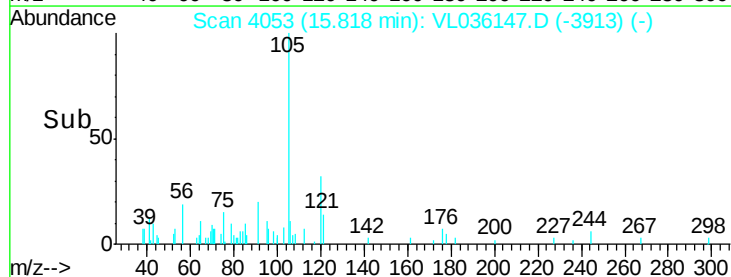
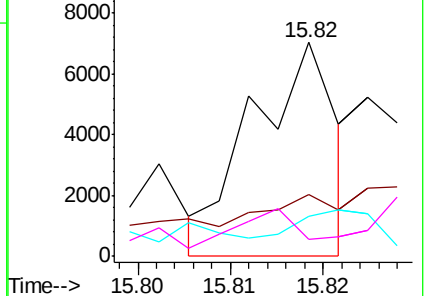


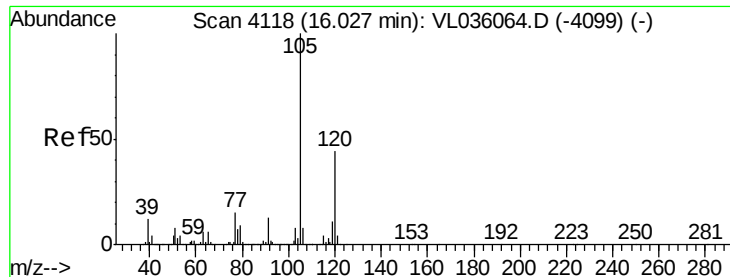
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.015 ppbv

RT: 15.97 min Scan# 4101

Delta R.T. -0.05 min

Lab File: VL036147.D

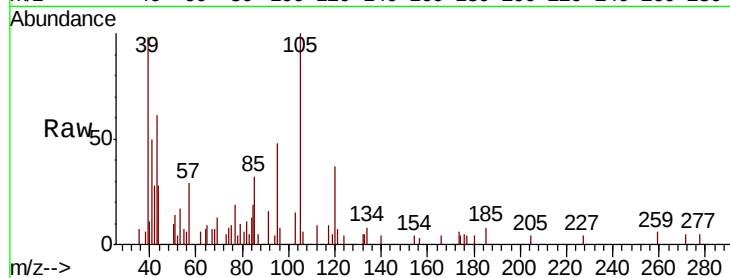
Acq: 11 Dec 2020 3:28

Tot Ion:105 Resp: 3758

Ion Ratio Lower Upper

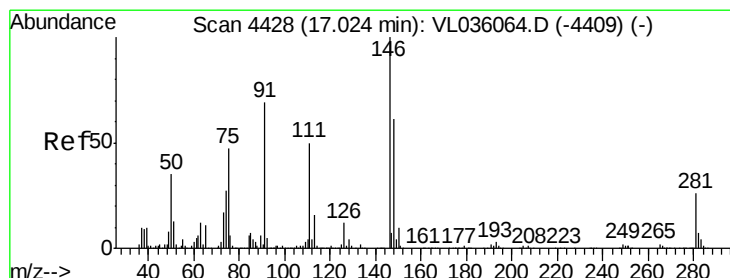
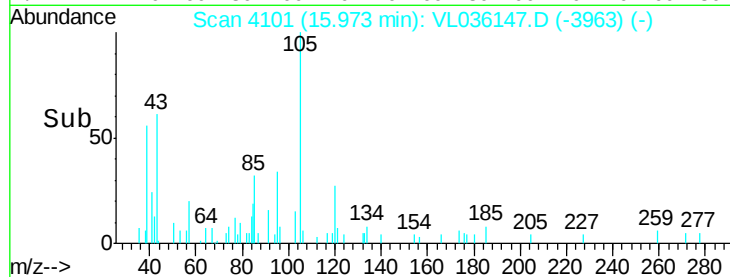
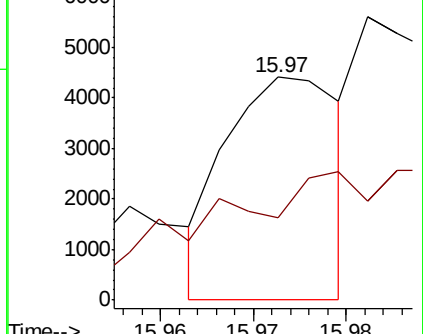
105 100

120 26.6 35.4 53.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#75

1,3-Dichlorobenzene

Concen: 0.006 ppbv

RT: 16.98 min Scan# 4413

Delta R.T. -0.05 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

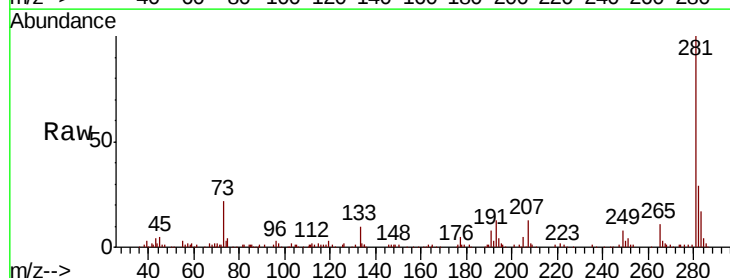
Tgt Ion:146 Resp: 798

Ion Ratio Lower Upper

146 100

111 552.8 25.1 75.3#

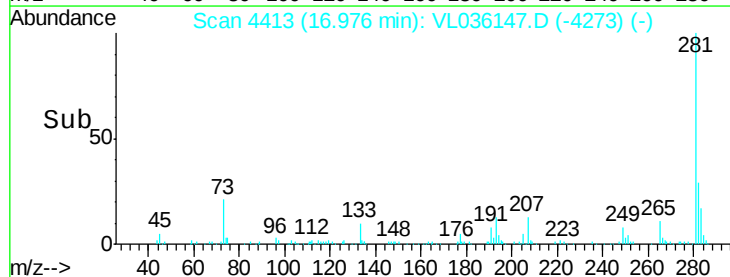
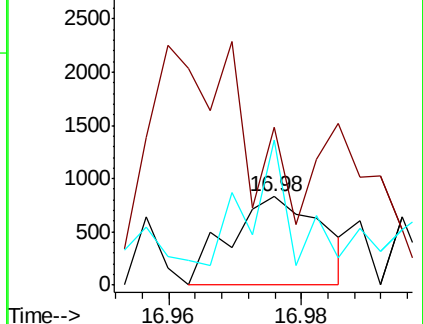
148 175.8 32.9 98.6#

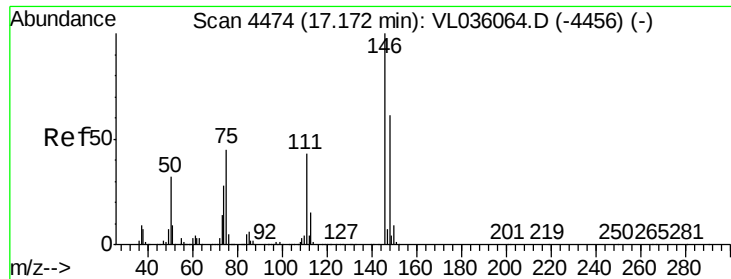


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

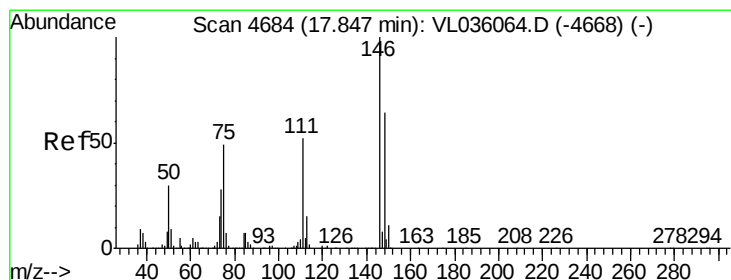
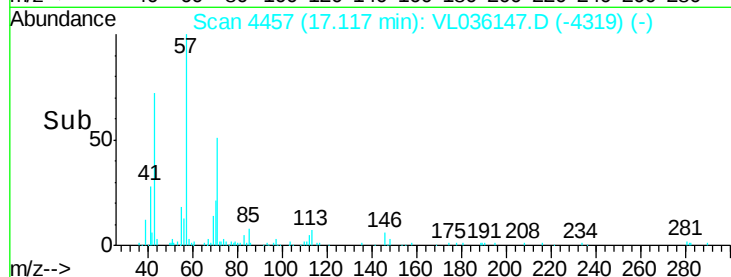
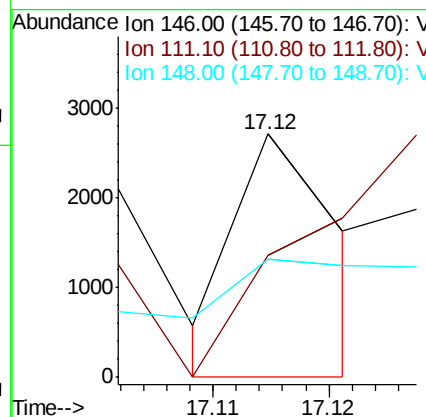
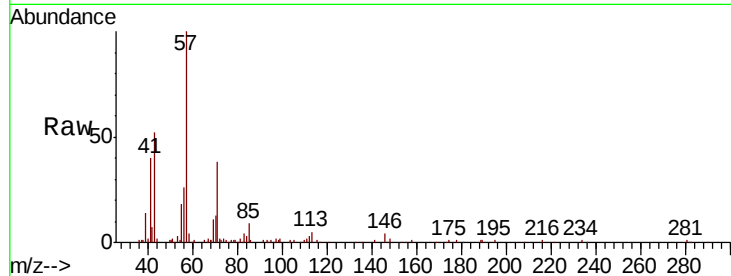
Ion 148.00 (147.70 to 148.70): V





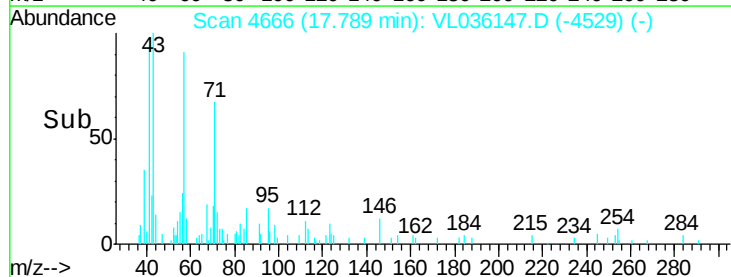
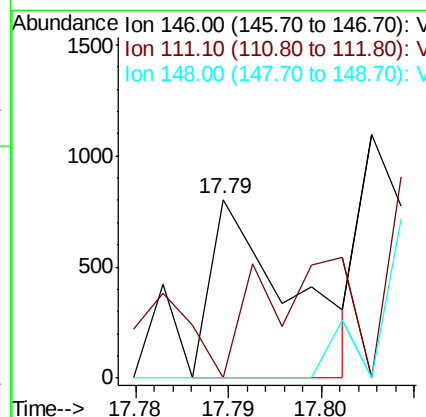
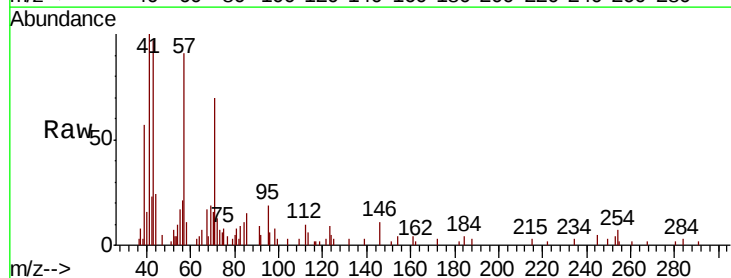
#76
 1,4-Dichlorobenzene
 Concen: 0.007 ppbv
 RT: 17.12 min Scan# 4457
 Delta R.T. -0.05 min
 Lab File: VL036147.D
 Acq: 11 Dec 2020 3:28

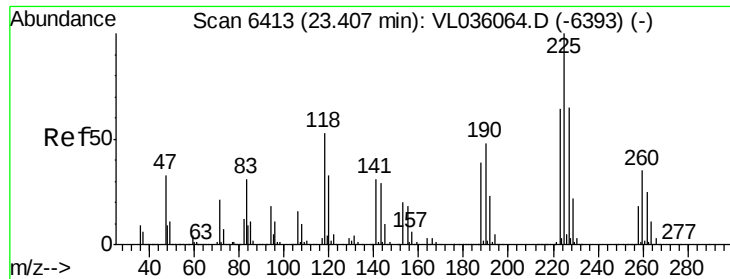
Tot Ion:146 Resp: 836
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.3 72.8#
 148 0.0 32.8 98.3#



#77
 1,2-Dichlorobenzene
 Concen: 0.004 ppbv
 RT: 17.79 min Scan# 4666
 Delta R.T. -0.06 min
 Lab File: VL036147.D
 Acq: 11 Dec 2020 3:28

Tgt Ion:146 Resp: 469
 Ion Ratio Lower Upper
 146 100
 111 0.0 26.1 78.2#
 148 0.0 33.1 99.5#

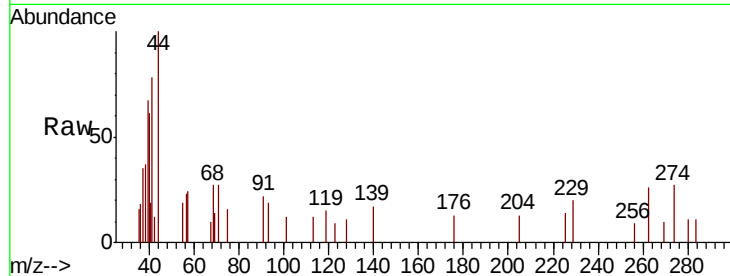




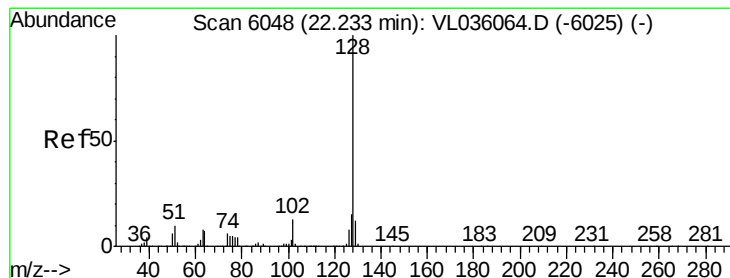
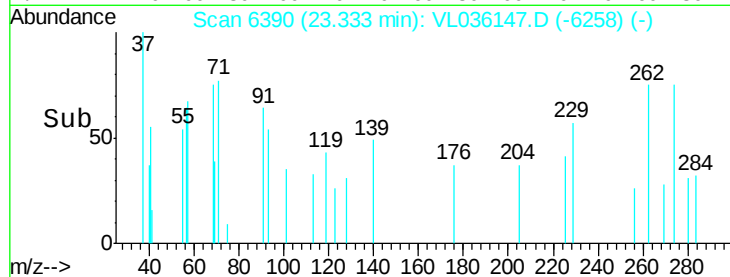
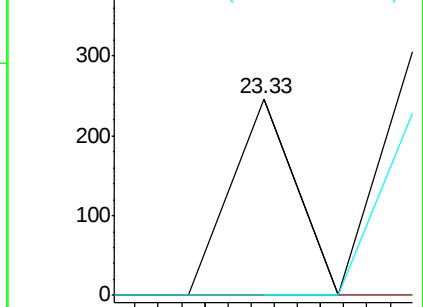
#78

Hexachloro-1,3-Butadiene
Concen: 0.000 ppbv
RT: 23.33 min Scan# 6390
Delta R.T. -0.07 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tot Ion	Ratio	Lower	Upper
225	100		
223	0.0	51.1	76.7#
227	0.0	51.7	77.5#



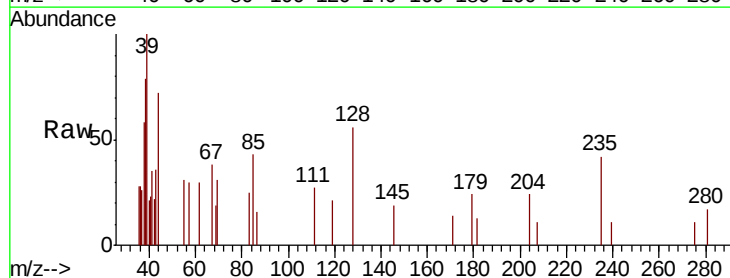
Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V



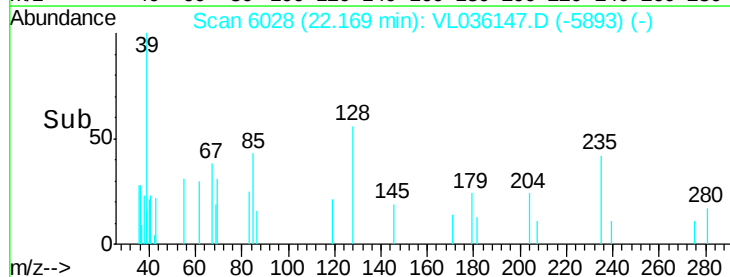
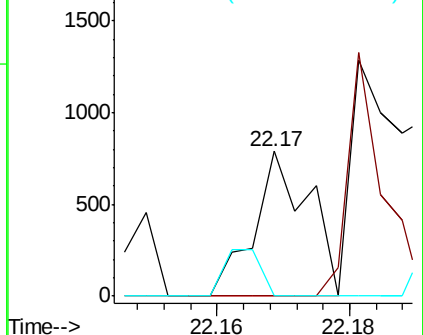
#79

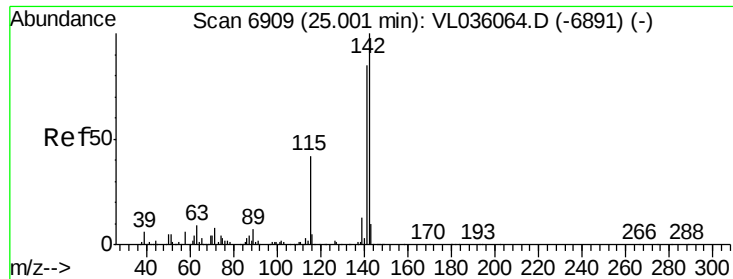
Naphthalene
Concen: 0.004 ppbv
RT: 22.17 min Scan# 6028
Delta R.T. -0.06 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	11.7	17.5#
129	0.0	9.3	13.9#



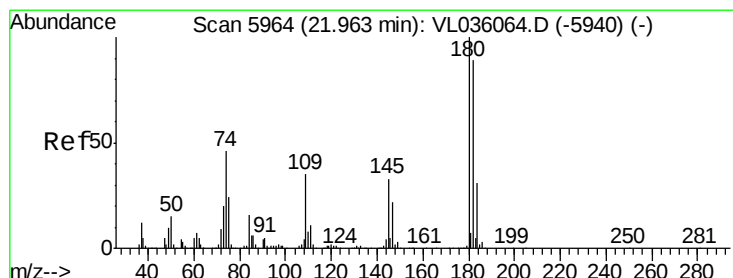
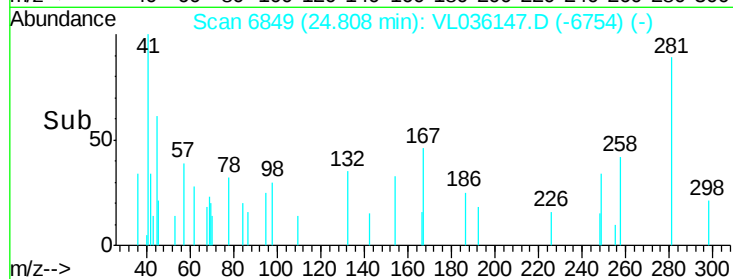
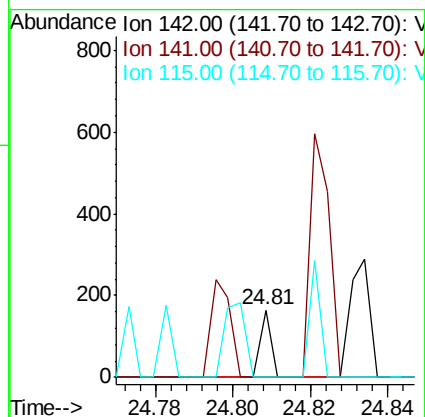
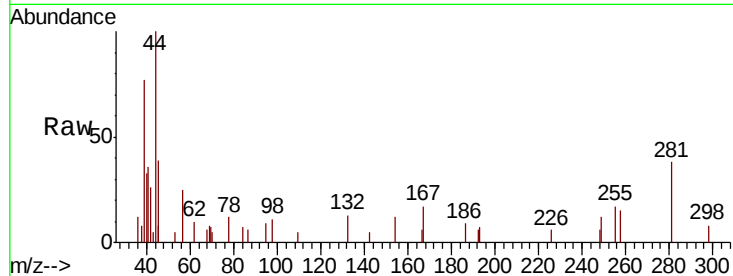
Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V





#80
Naphthalene, 2-methyl-
Concen: 0.001 ppbv
RT: 24.81 min Scan# 6849
Delta R.T. -0.19 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tot Ion	Ratio	Lower	Upper
142	100		
141	259.4	64.3	96.5#
115	318.8	33.9	50.9#



#81
1,2,4-Trichlorobenzene
Concen: 0.003 ppbv
RT: 21.90 min Scan# 5945
Delta R.T. -0.06 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tgt Ion	Ratio	Lower	Upper
180	100		
182	60.8	0.0	0.0#
184	0.0	0.0	0.0

