

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121020\
 Data File : VL036159.D
 Acq On : 11 Dec 2020 11:20
 Operator : SY/AP
 Sample : L4948-15
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 14 22:06:12 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	1310458	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.16	114	2544357	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.07	117	2301381	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2016307	11.03	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.30%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.03	85	40302	0.264	ppbv	93
3) Chlorodifluoromethane	2.95	51	180735	1.209	ppbv #	74
4) Chloromethane	3.12	50	35185m	0.479	ppbv	
5) Vinyl Chloride	3.26	62	89	0.001	ppbv #	44
6) Bromomethane	3.46	94	138	0.003	ppbv #	1
7) Chloroethane	3.54	64	177	0.006	ppbv #	40
8) Dichlorotetrafluoroethane	3.17	85	2228	0.013	ppbv	98
9) Propene	3.01	41	161627m	2.158	ppbv	
10) Heptane	8.11	43	272247	1.423	ppbv	96
11) Trichlorofluoromethane	3.94	101	73635	0.410	ppbv	98
13) Ethanol	3.59	45	551123	53.376	ppbv	85
14) Bromoethene	3.71	108	212	0.004	ppbv #	1
15) Acetone	3.83	43	2276722	14.456	ppbv	95
18) 1,1-Dichloroethene	4.26	96	71	0.001	ppbv #	1
19) Isopropyl Alcohol	3.96	45	210715m	2.189	ppbv	
20) Methylene Chloride	4.33	84	183105	2.837	ppbv	99
21) Allyl Chloride	4.39	41	1105	0.011	ppbv #	78
22) trans-1,2-Dichloroethene	4.86	96	352	0.006	ppbv #	3
24) 1,1-Dichloroethane	4.99	63	166	0.001	ppbv #	88
26) Hexane	5.67	57	170762	1.206	ppbv #	45
27) Carbon Disulfide	4.53	76	1235	0.009	ppbv #	59
28) Methyl tert-Butyl Ether	5.02	73	190	0.001	ppbv #	51
30) Cyclohexane	7.11	84	651795	6.266	ppbv	98
31) cis-1,2-Dichloroethene	5.53	61	411	0.003	ppbv #	34
32) 1,1,1-Trichloroethane	6.49	97	152312m	0.794	ppbv	
34) 2-Butanone	5.24	43	177825	1.054	ppbv	99
35) Carbon Tetrachloride	7.02	117	2444	0.016	ppbv	84
36) Benzene	6.88	78	127887	0.593	ppbv	94
38) Trichloroethene	7.82	130	637	0.008	ppbv #	19
41) Tetrahydrofuran	6.04	42	1772	0.018	ppbv #	40
42) Bromodichloromethane	7.78	83	2980	0.018	ppbv #	61
43) Methyl Methacrylate	8.00	69	677	0.007	ppbv #	1
45) t-1,3-Dichloropropene	9.26	75	147	0.002	ppbv #	42
46) cis-1,3-Dichloropropene	8.69	75	125	0.001	ppbv #	29
47) 1,1,2-Trichloroethane	9.46	97	298	0.004	ppbv #	27
48) Dibromochloromethane	10.29	129	227	0.002	ppbv	91
49) Bromoform	13.01	173	112	0.001	ppbv #	12
50) 4-Methyl-2-Pentanone	8.72	43	1592	0.006	ppbv #	40
52) Tetrachloroethene	11.21	164	1075559	13.779	ppbv	95
53) Toluene	9.79	91	243064	1.004	ppbv	97
54) 1,2-Dibromoethane	10.60	107	167	0.001	ppbv	85

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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

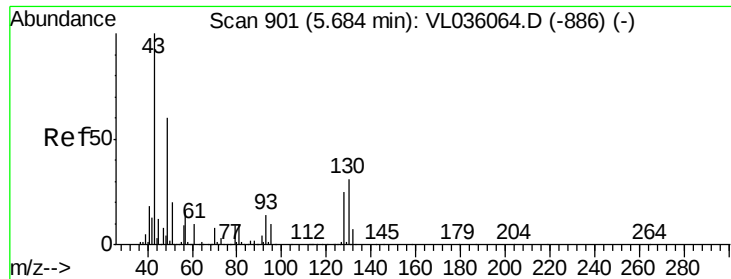
QLast Update : Mon Dec 07 16:56:49 2020

Response via : Initial Calibration

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

56) 1,1,1,2-Tetrachloroethane	12.11	131	226	0.002	ppbv #	8
57) Chlorobenzene	12.13	112	795	0.005	ppbv #	36
58) Ethyl Benzene	12.70	91	625408	1.983	ppbv	99
59) m/p-Xylene	12.95	91	2635913	9.923	ppbv	99
60) o-Xylene	13.68	91	1015131	4.056	ppbv	97
61) Styrene	13.52	104	3524	0.022	ppbv #	1
62) Isopropylbenzene	14.66	105	71129m	0.192	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.67	83	616	0.004	ppbv #	27
64) n-propylbenzene	15.54	120	2046	0.023	ppbv #	1
65) tert-Butylbenzene	16.72	119	678	0.002	ppbv #	15
66) Benzyl Chloride	16.97	91	502	0.007	ppbv #	1
67) sec-Butylbenzene	17.26	105	1174	0.003	ppbv #	60
69) p-Isopropyltoluene	17.63	119	4927	0.015	ppbv #	46
70) n-Butylbenzene	18.51	91	386	0.001	ppbv #	33
72) 4-Ethyltoluene	15.82	105	6364	0.023	ppbv #	55
73) 1,3,5-Trimethylbenzene	15.99	105	28686m	0.111	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	118923m	0.458	ppbv	
75) 1,3-Dichlorobenzene	16.97	146	314	0.002	ppbv #	1
76) 1,4-Dichlorobenzene	17.12	146	1301	0.010	ppbv #	1
77) 1,2-Dichlorobenzene	17.79	146	99	0.001	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.36	225	111	0.001	ppbv #	18
79) Naphthalene	22.17	128	2854	0.022	ppbv #	67
80) Naphthalene,2-methyl-	24.94	142	125	0.004	ppbv #	1
81) 1,2,4-Trichlorobenzene	21.89	180	133	0.002	ppbv #	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

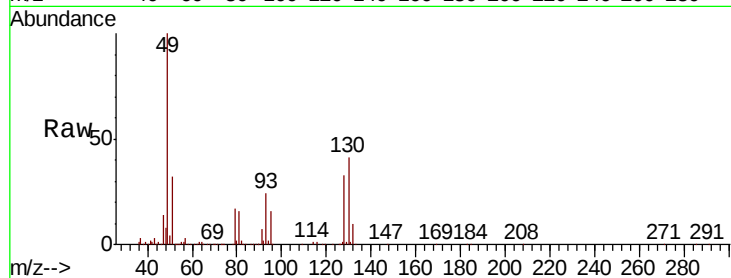
Delta R.T. -0.03 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Tot Ion: 49 Resp: 1310458

Ion	Ratio	Lower	Upper
49	100		
128	34.8	21.1	63.1
130	44.9	27.1	81.3



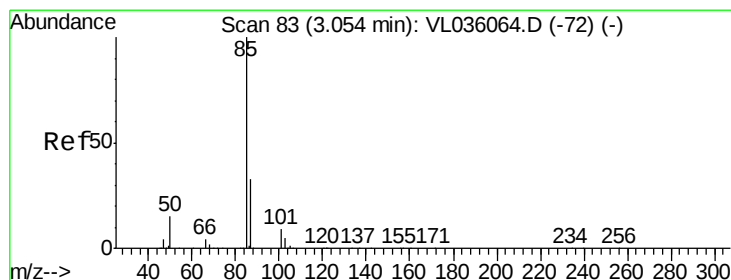
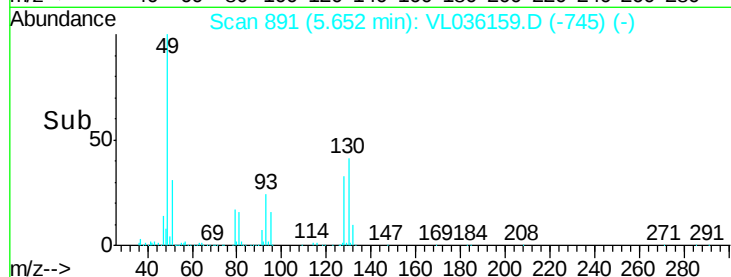
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.65

Time-->



#2

Dichlorodifluoromethane

Concen: 0.264 ppbv

RT: 3.03 min Scan# 76

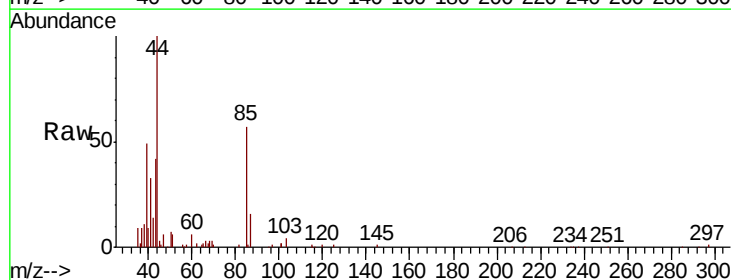
Delta R.T. -0.02 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Tgt Ion: 85 Resp: 40302

Ion	Ratio	Lower	Upper
85	100		
87	29.0	26.5	39.7

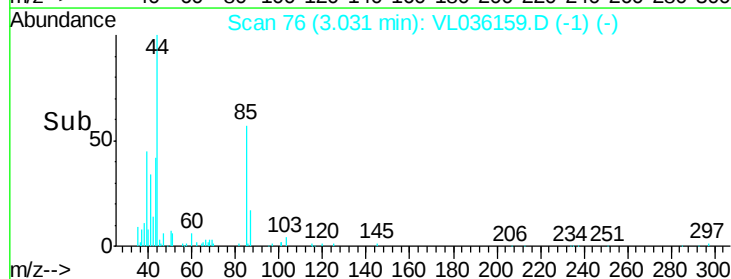


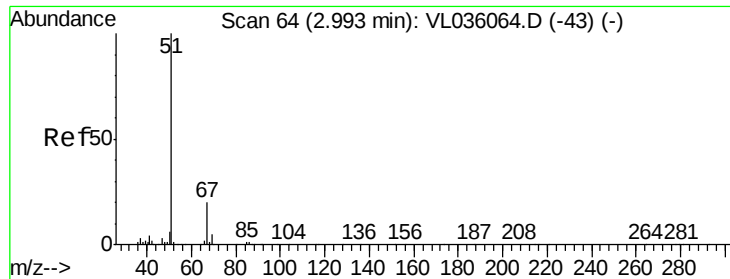
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.03

Time-->





#3

Chlorodifluoromethane

Concen: 1.209 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.04 min

Lab File: VL036159.D

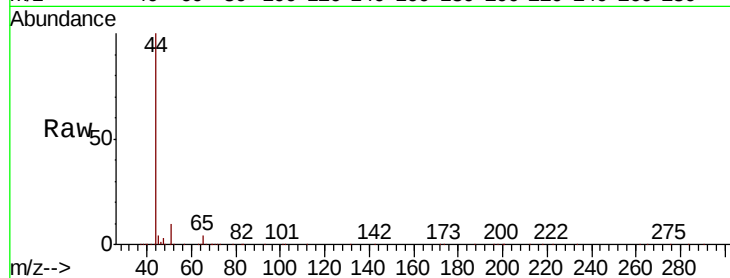
Acq: 11 Dec 2020 11:20

Tot Ion: 51 Resp: 180735

Ion Ratio Lower Upper

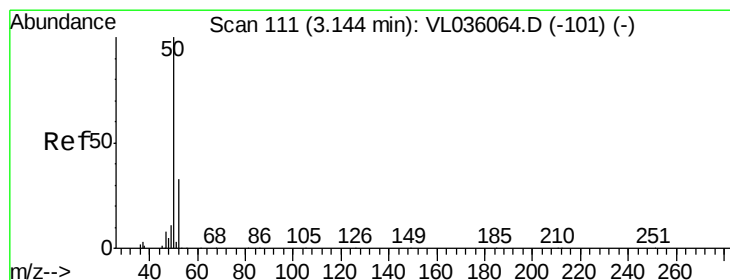
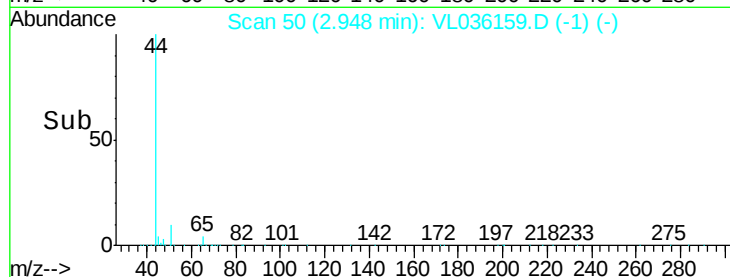
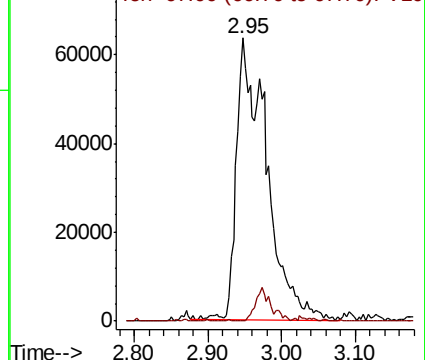
51 100

67 6.3 14.3 21.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.479 ppbv m

RT: 3.12 min Scan# 105

Delta R.T. -0.02 min

Lab File: VL036159.D

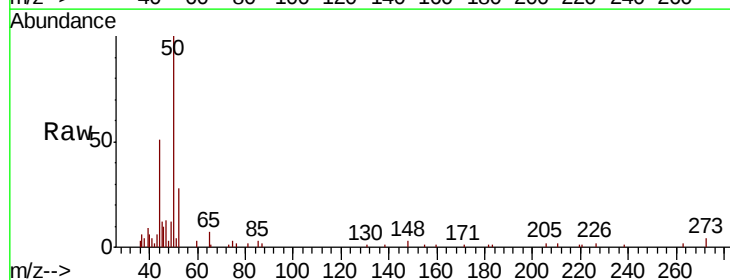
Acq: 11 Dec 2020 11:20

Tgt Ion: 50 Resp: 35185

Ion Ratio Lower Upper

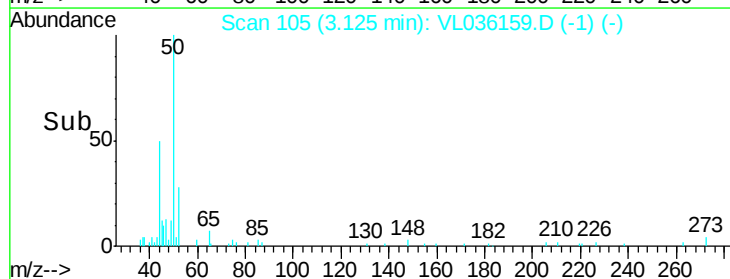
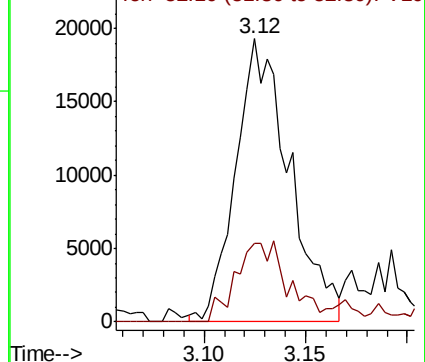
50 100

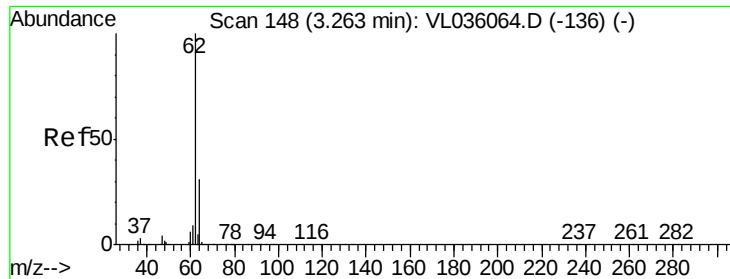
52 27.7 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.001 ppbv

RT: 3.26 min Scan# 148

Delta R.T. 0.00 min

Lab File: VL036159.D

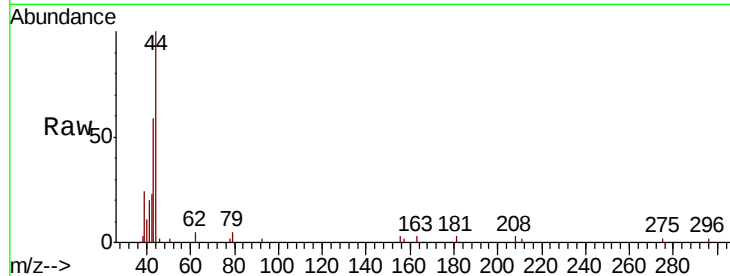
Acq: 11 Dec 2020 11:20

Tot Ion: 62 Resp: 89

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

3.26

400

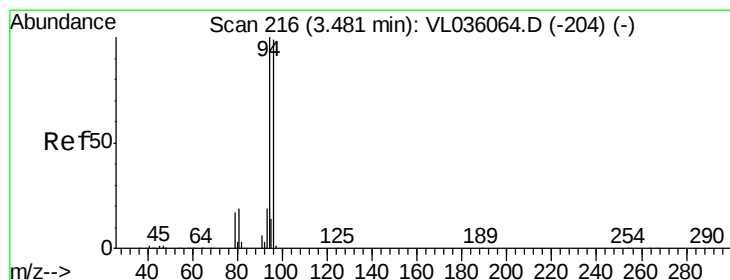
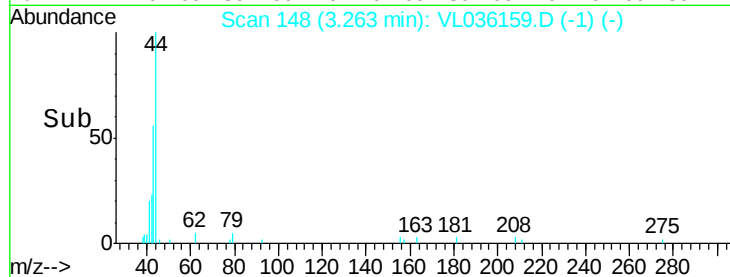
300

200

100

0

Time-->



#6

Bromomethane

Concen: 0.003 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.03 min

Lab File: VL036159.D

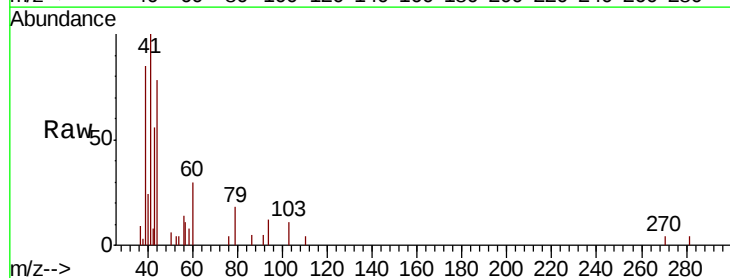
Acq: 11 Dec 2020 11:20

Tgt Ion: 94 Resp: 138

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

3.46

600

500

400

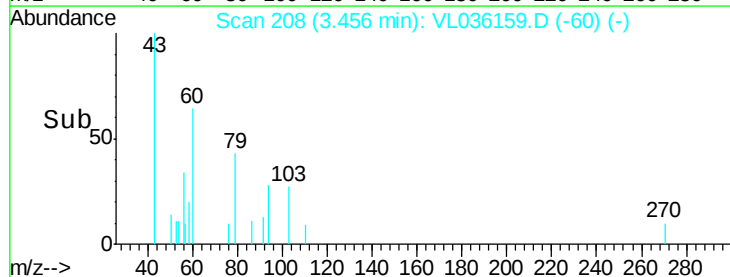
300

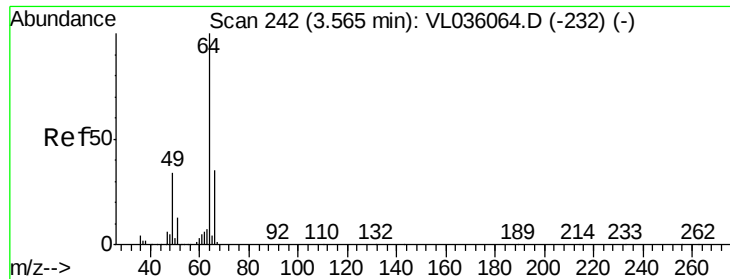
200

100

0

Time-->





#7

Chloroethane

Concen: 0.006 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.03 min

Lab File: VL036159.D

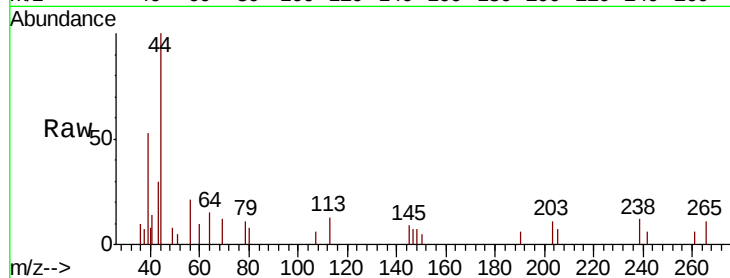
Acq: 11 Dec 2020 11:20

Tot Ion: 64 Resp: 177

Ion Ratio Lower Upper

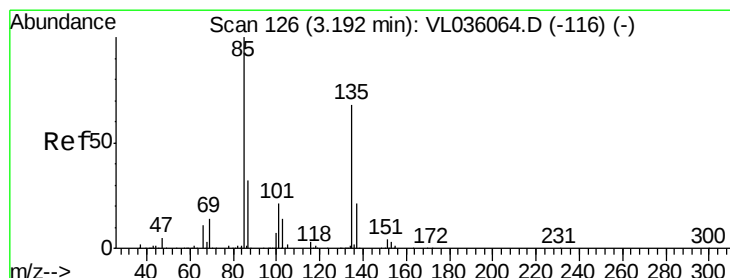
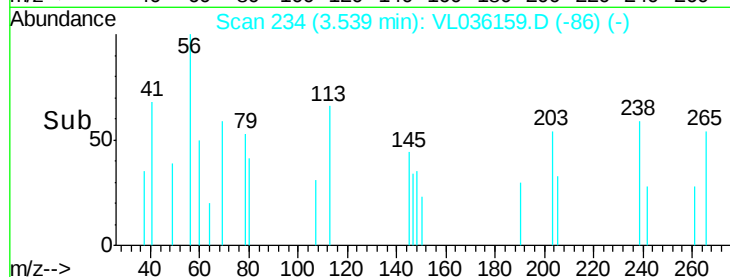
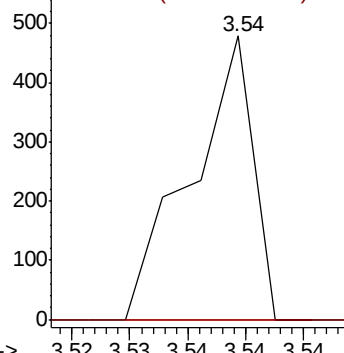
64 100

66 0.0 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: 0.013 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.02 min

Lab File: VL036159.D

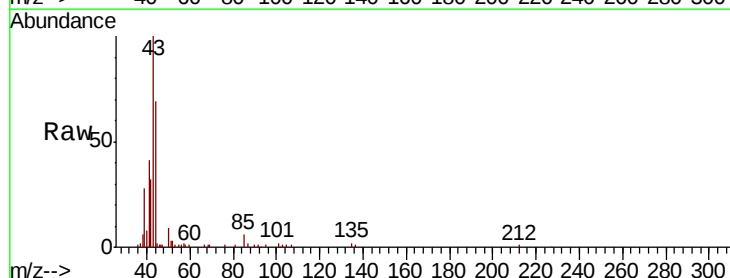
Acq: 11 Dec 2020 11:20

Tgt Ion: 85 Resp: 2228

Ion Ratio Lower Upper

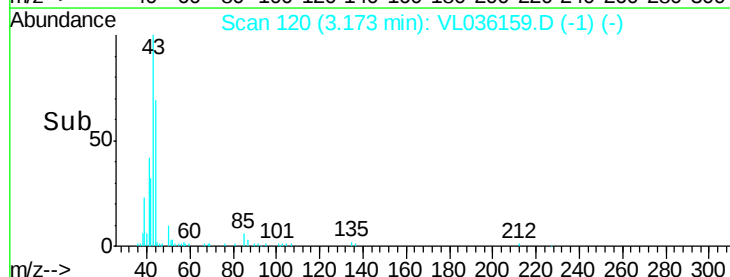
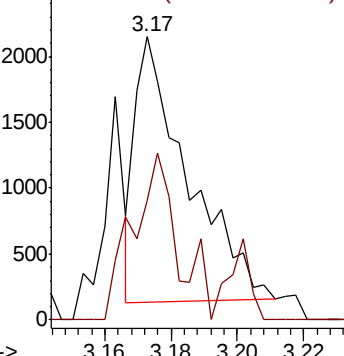
85 100

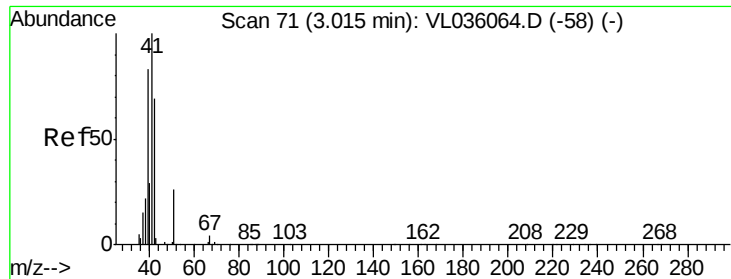
135 65.8 53.8 80.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 2.158 ppbv m

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL036159.D

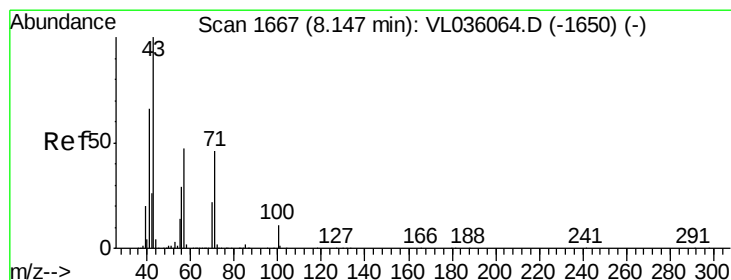
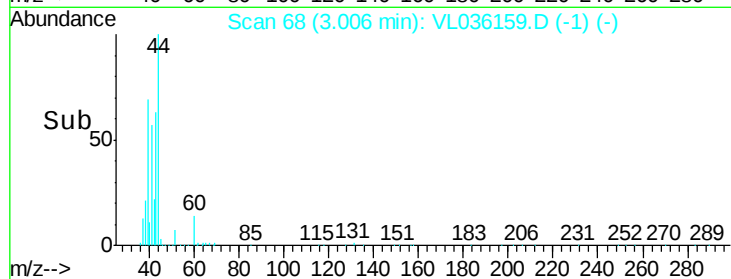
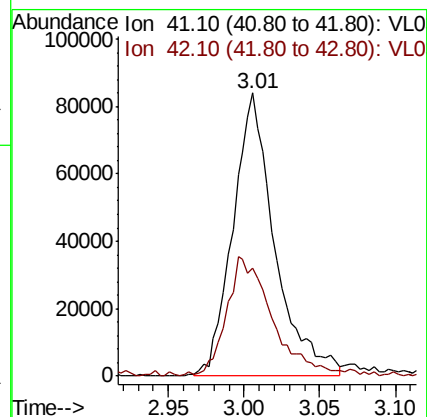
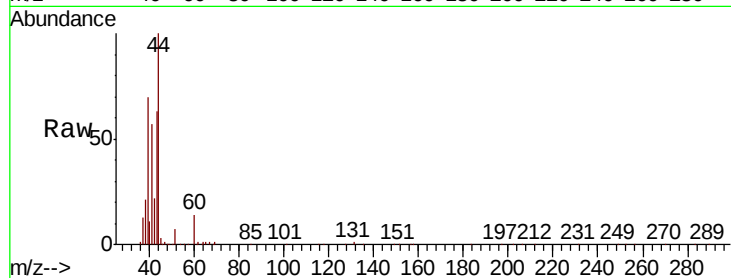
Acq: 11 Dec 2020 11:20

Tot Ion: 41 Resp: 161627

Ion Ratio Lower Upper

41 100

42 85.2 57.0 85.6



#10

Heptane

Concen: 1.423 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. -0.04 min

Lab File: VL036159.D

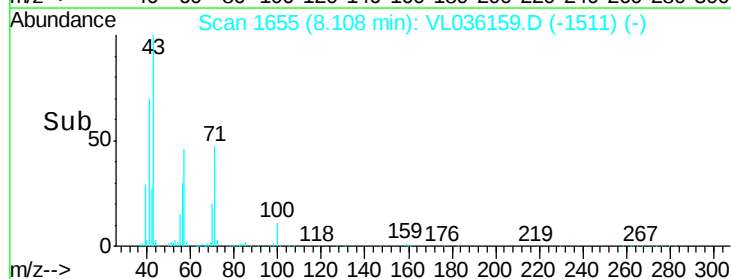
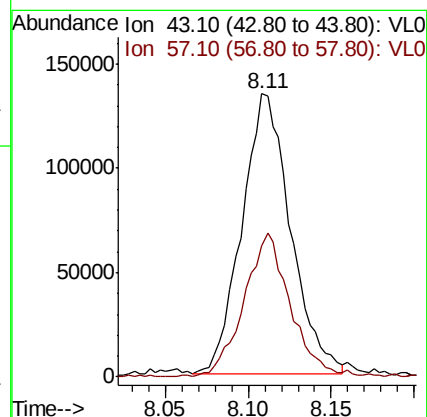
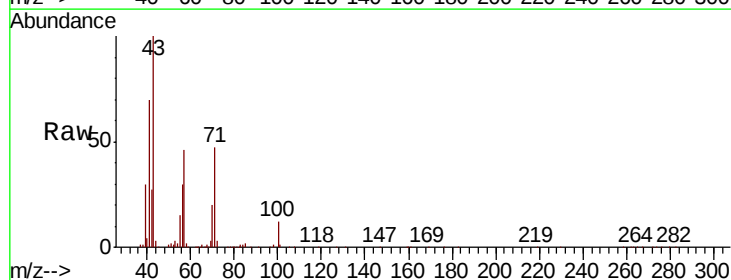
Acq: 11 Dec 2020 11:20

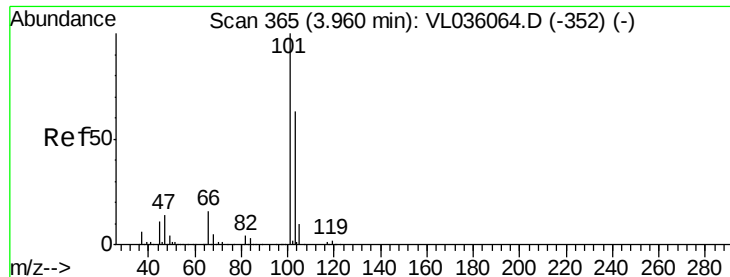
Tgt Ion: 43 Resp: 272247

Ion Ratio Lower Upper

43 100

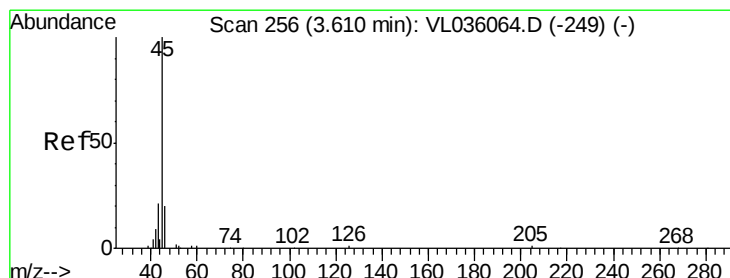
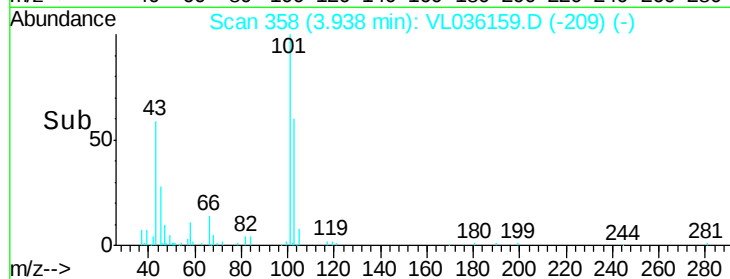
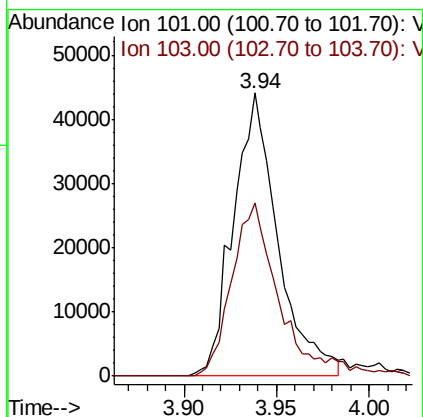
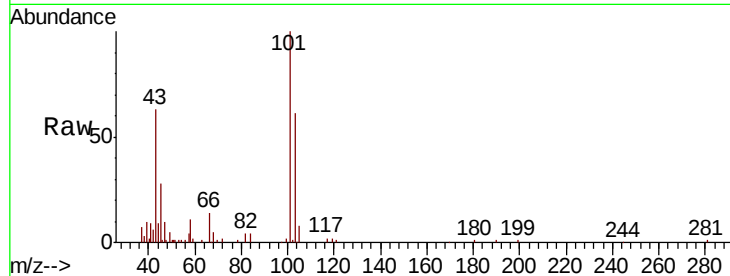
57 49.8 37.9 56.9





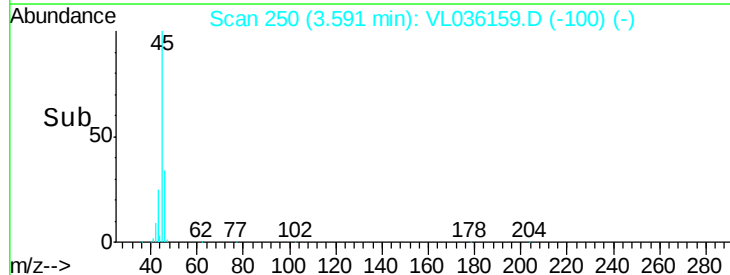
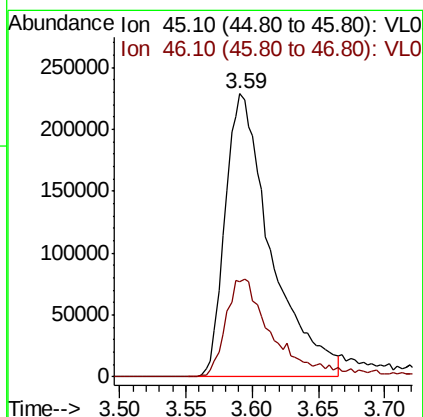
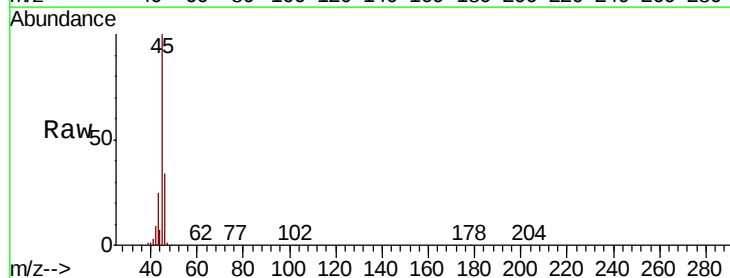
#11
 Trichlorofluoromethane
 Concen: 0.410 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.02 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

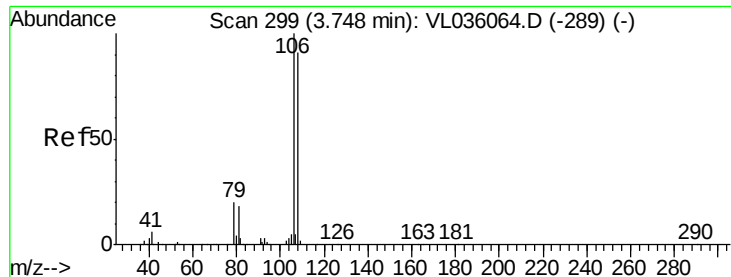
Tot Ion: 101 Resp: 73635
 Ion Ratio Lower Upper
 101 100
 103 61.4 50.3 75.5



#13
 Ethanol
 Concen: 53.376 ppbv
 RT: 3.59 min Scan# 250
 Delta R.T. -0.02 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

Tgt Ion: 45 Resp: 551123
 Ion Ratio Lower Upper
 45 100
 46 37.5 19.0 75.8





#14

Bromoethene

Concen: 0.004 ppbv

RT: 3.71 min Scan# 288

Delta R.T. -0.04 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

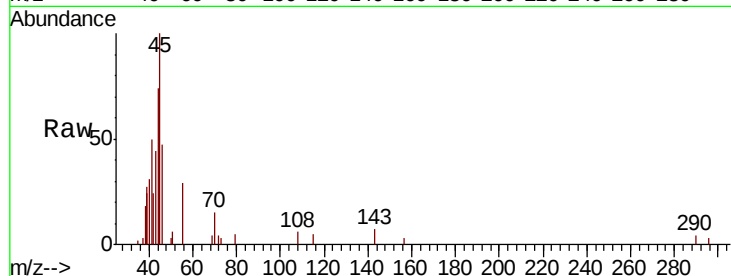
Tot Ion:108 Resp: 212

Ion Ratio Lower Upper

108 100

106 0.0 91.0 136.4#

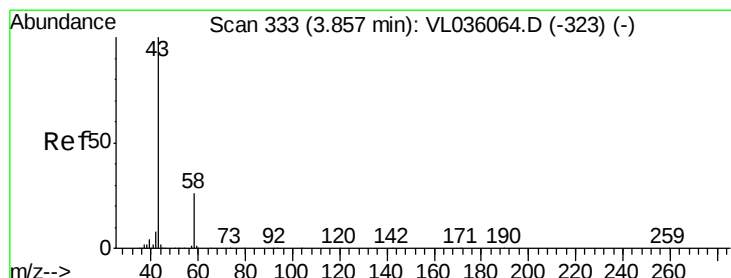
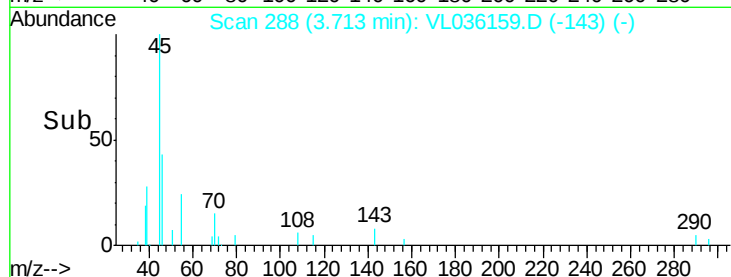
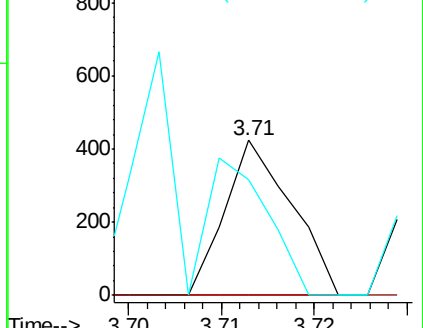
79 189.2 19.3 28.9#



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



#15

Acetone

Concen: 14.456 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.03 min

Lab File: VL036159.D

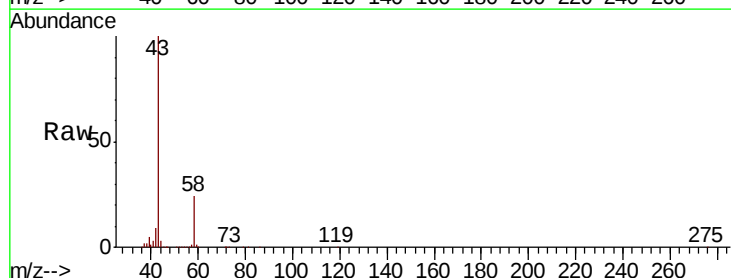
Acq: 11 Dec 2020 11:20

Tgt Ion: 43 Resp: 2276722

Ion Ratio Lower Upper

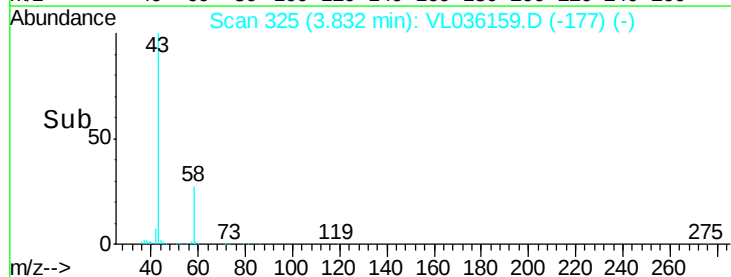
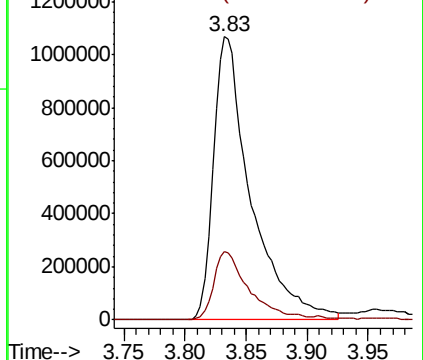
43 100

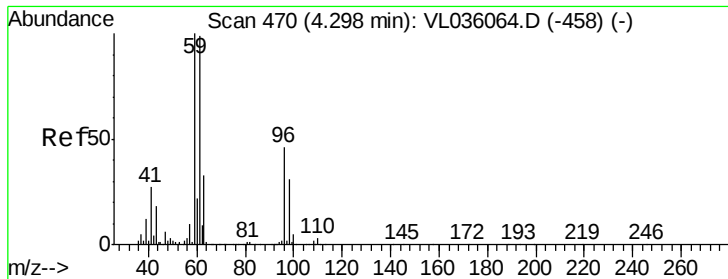
58 23.7 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

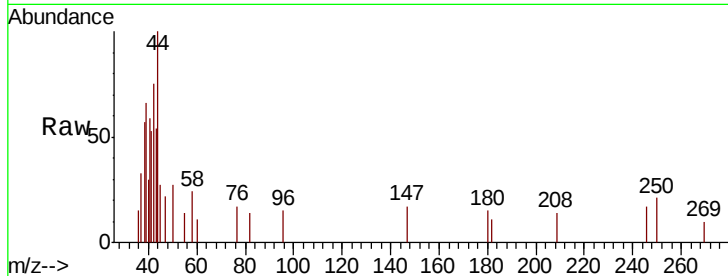
Ion 58.10 (57.80 to 58.80): VL0



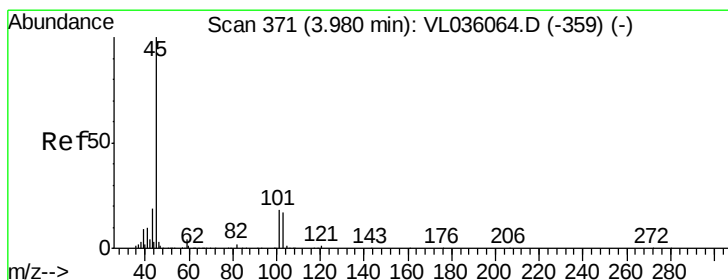
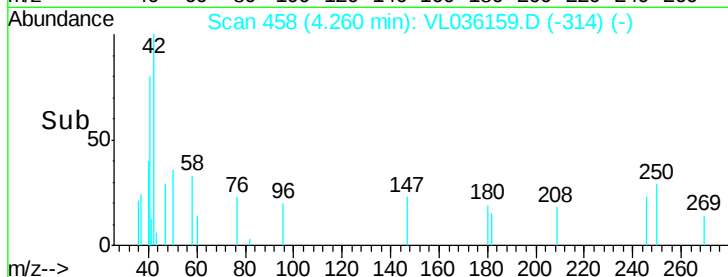
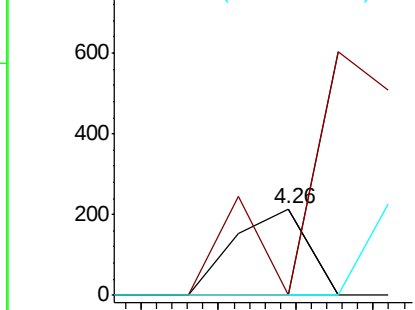


#18
 1,1-Dichloroethene
 Concen: 0.001 ppbv
 RT: 4.26 min Scan# 458
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

Tot Ion: 96 Resp: 71
 Ion Ratio Lower Upper
 96 100
 61 0.0 171.4 257.2#
 98 0.0 54.2 81.2#

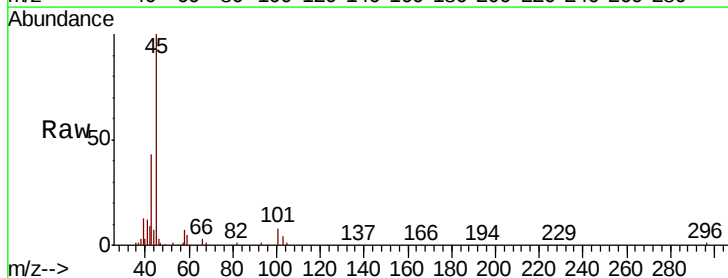


Abundance Ion 96.00 (95.70 to 96.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0

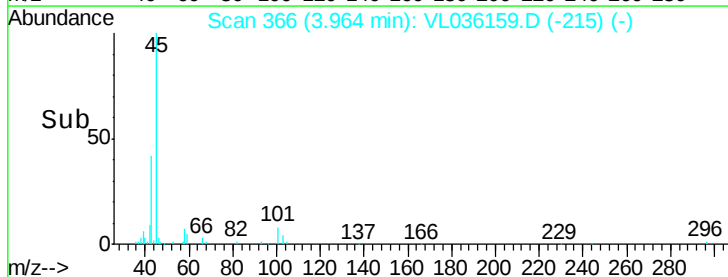
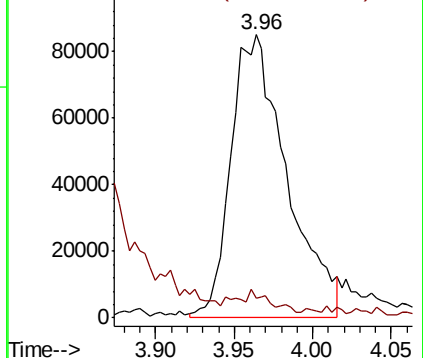


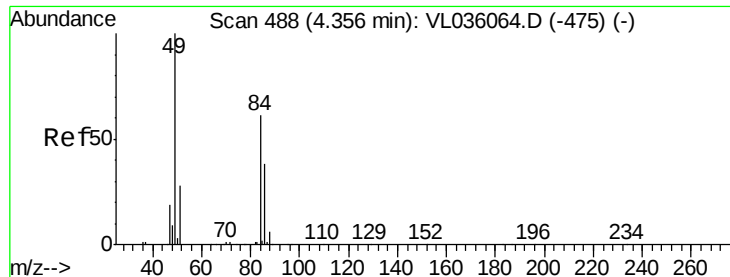
#19
 Isopropyl Alcohol
 Concen: 2.189 ppbv m
 RT: 3.96 min Scan# 366
 Delta R.T. -0.02 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

Tgt Ion: 45 Resp: 210715
 Ion Ratio Lower Upper
 45 100
 58 0.0 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: 2.837 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.03 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Tot Ion: 84 Resp: 183105

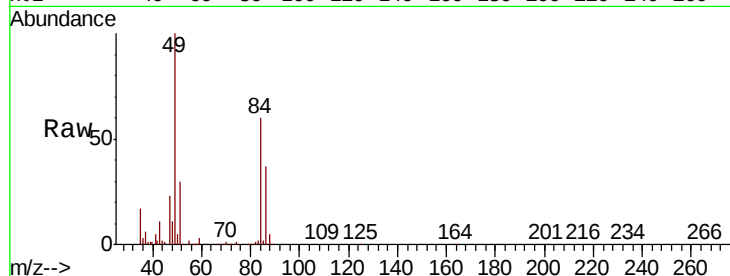
Ion Ratio Lower Upper

84 100

49 165.3 133.0 199.4

51 49.8 38.9 58.3

86 61.1 48.8 73.2

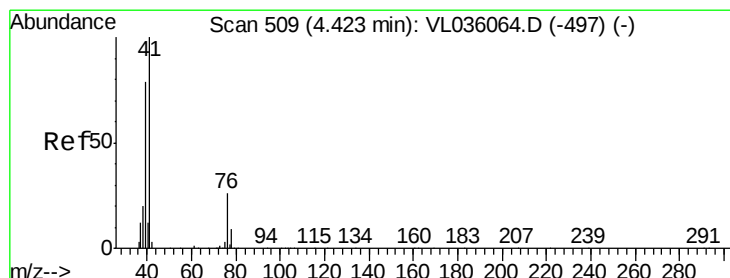
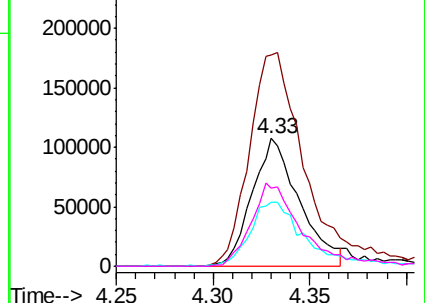
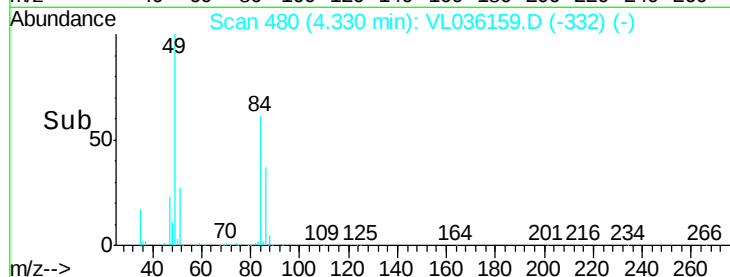


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#21

Allyl Chloride

Concen: 0.011 ppbv

RT: 4.39 min Scan# 500

Delta R.T. -0.03 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

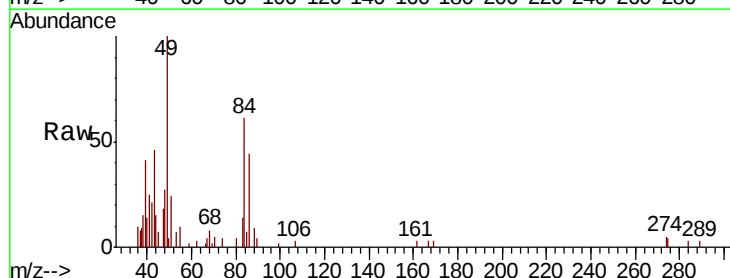
Tgt Ion: 41 Resp: 1105

Ion Ratio Lower Upper

41 100

76 0.0 21.0 31.4#

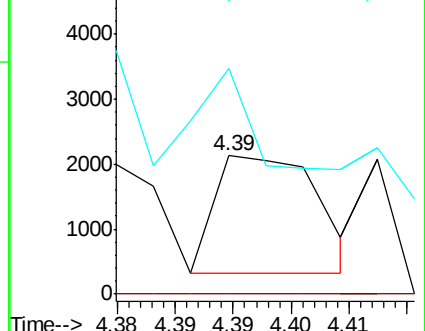
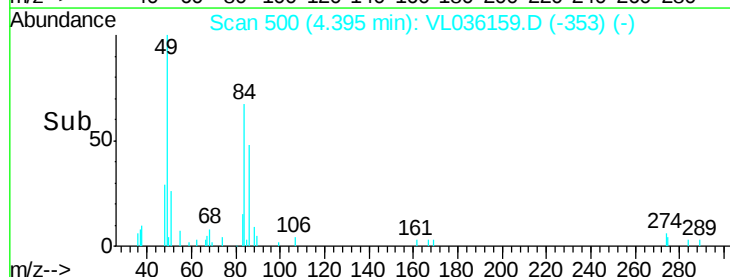
39 94.3 66.0 99.0

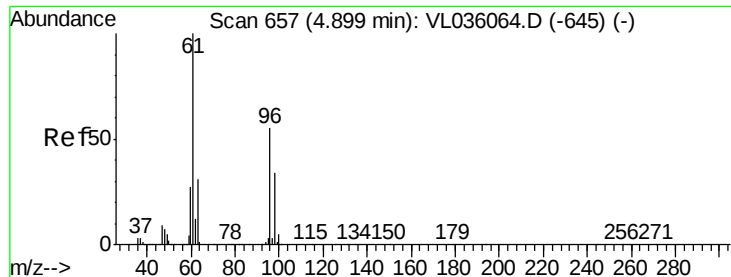


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.006 ppbv

RT: 4.86 min Scan# 646

Delta R.T. -0.04 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

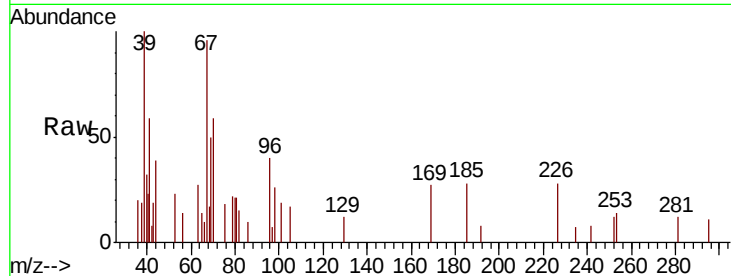
Tot Ion: 96 Resp: 352

Ion Ratio Lower Upper

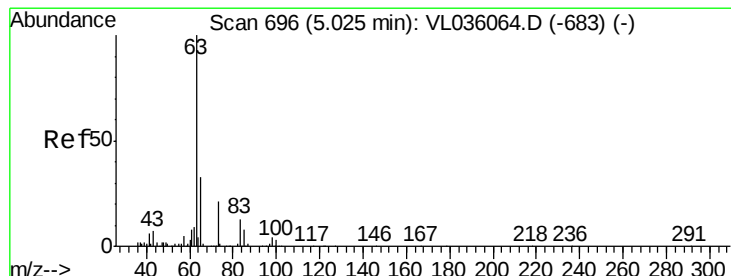
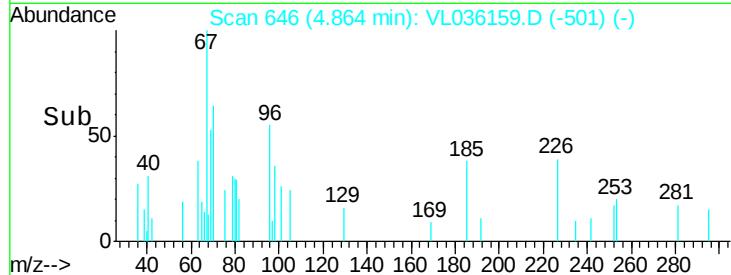
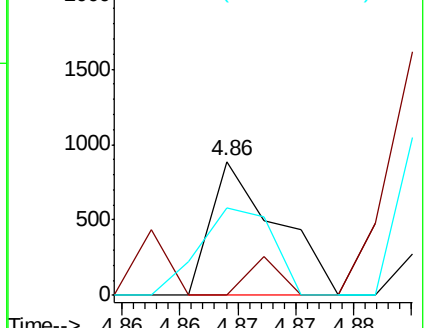
96 100

61 0.0 145.7 218.5#

98 65.8 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



#24

1,1-Dichloroethane

Concen: 0.001 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.03 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

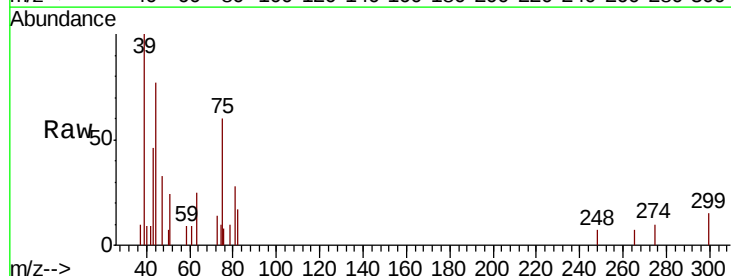
Tgt Ion: 63 Resp: 166

Ion Ratio Lower Upper

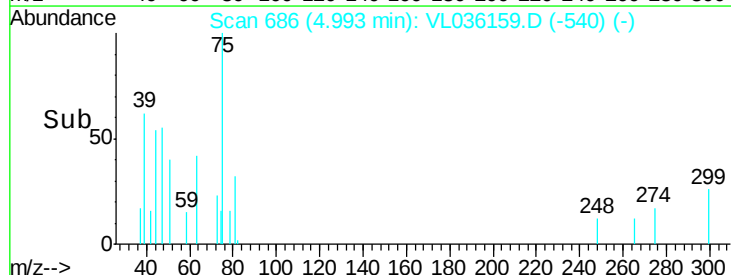
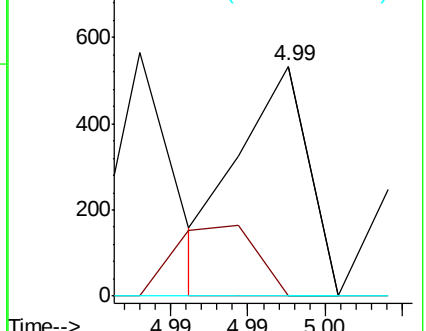
63 100

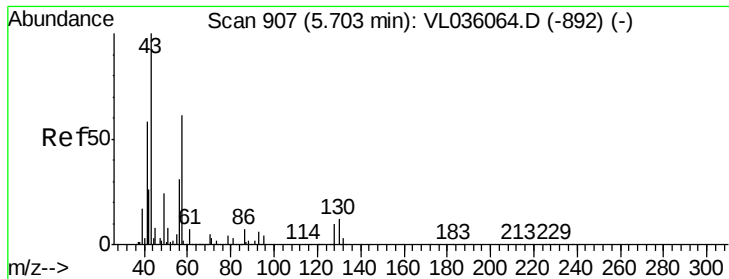
98 0.0 2.2 6.6#

100 0.0 1.5 4.4#



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





#26

Hexane

Concen: 1.206 ppbv

RT: 5.67 min Scan# 896

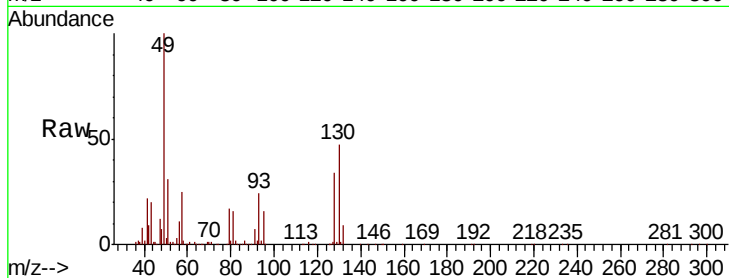
Delta R.T. -0.04 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Tot Ion: 57 Resp: 170762

Ion	Ratio	Lower	Upper
57	100		
41	103.7	82.9	124.3
43	96.3	199.9	299.9#
56	56.6	43.1	64.7

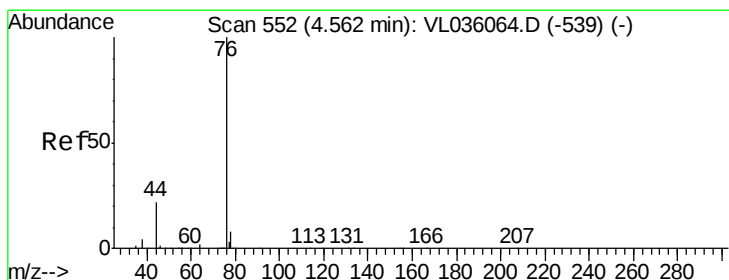
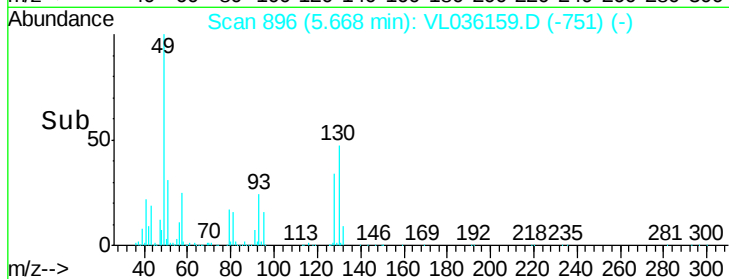
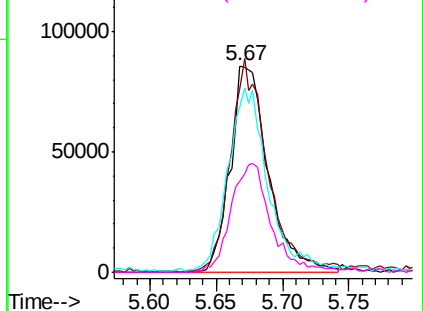


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.009 ppbv

RT: 4.53 min Scan# 543

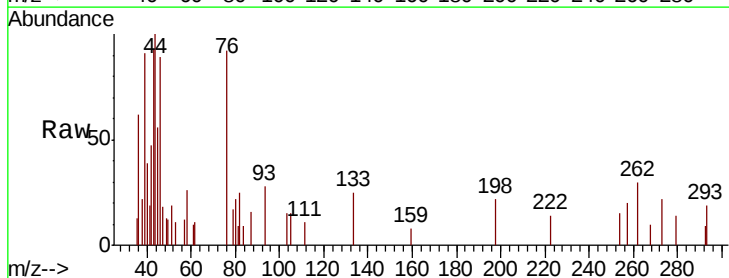
Delta R.T. -0.03 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Tgt Ion: 76 Resp: 1235

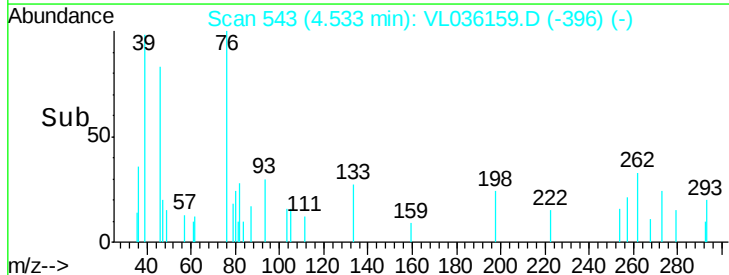
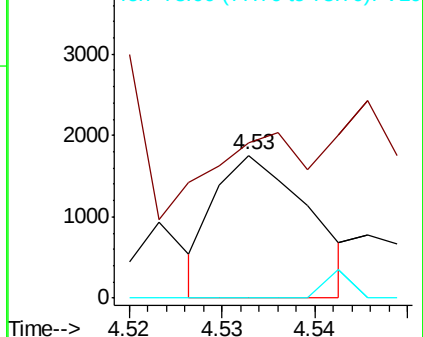
Ion	Ratio	Lower	Upper
76	100		
44	0.0	17.9	26.9#
78	0.0	7.8	11.8#

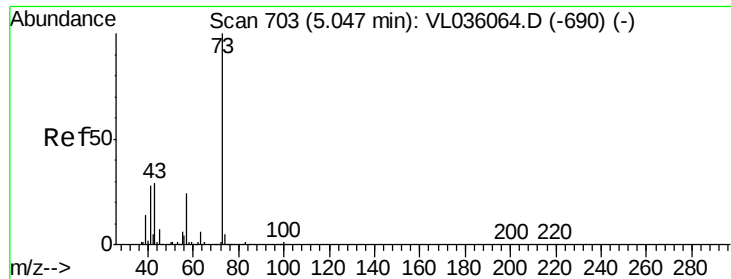


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#28

Methvl tert-Butvl Ether

Concen: 0.001 ppbv

RT: 5.02 min Scan# 695

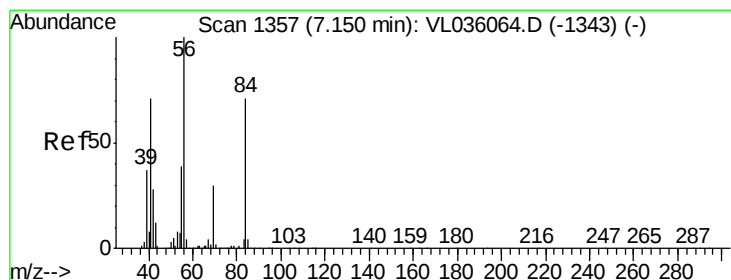
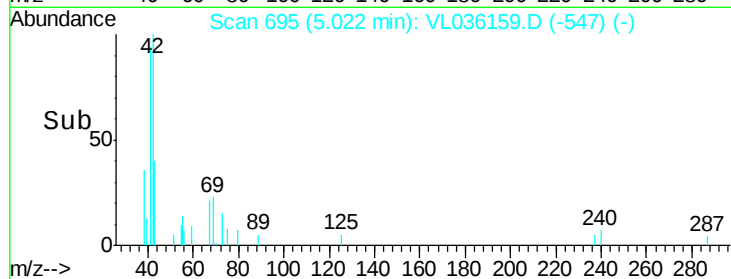
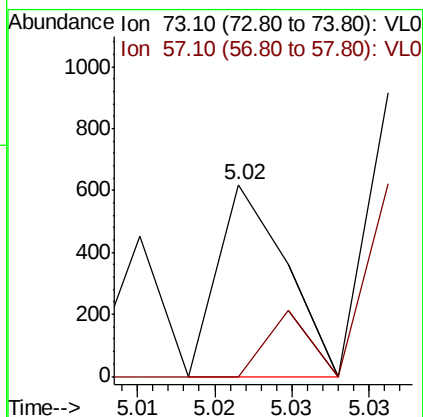
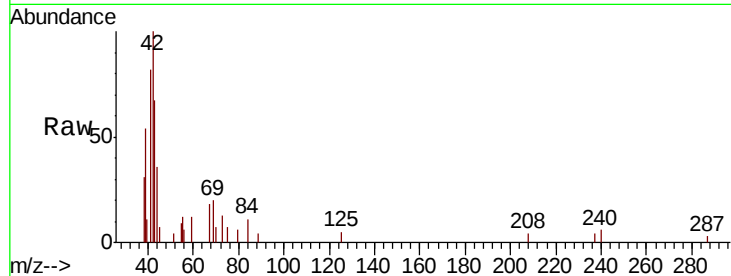
Delta R.T. -0.03 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Tot Ion: 73 Resp: 190

Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.2	28.8#



#30

Cyclohexane

Concen: 6.266 ppbv

RT: 7.11 min Scan# 1346

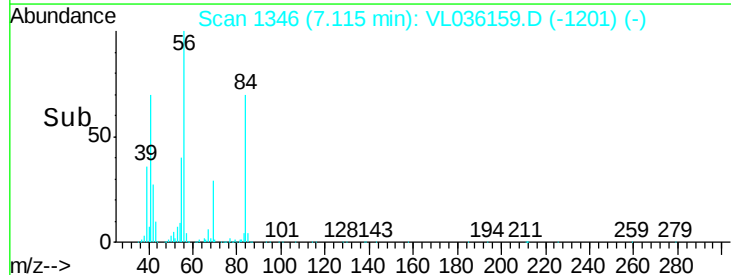
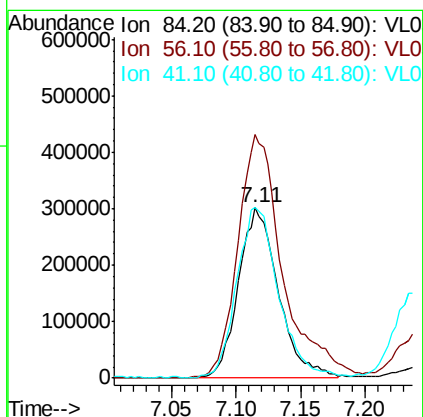
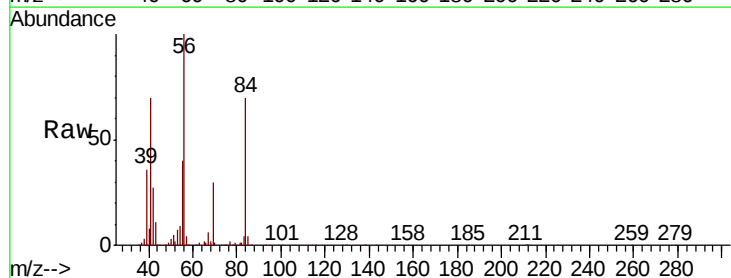
Delta R.T. -0.04 min

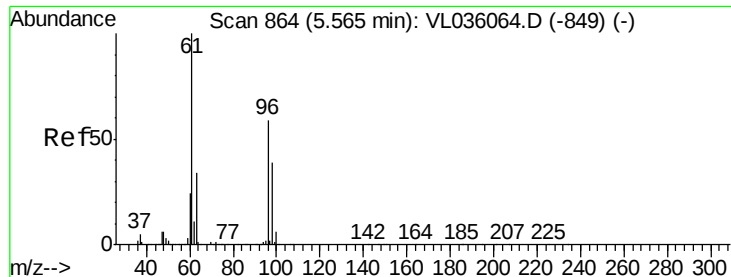
Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Tgt Ion: 84 Resp: 651795

Ion	Ratio	Lower	Upper
84	100		
56	160.9	128.0	192.0
41	104.7	81.3	121.9

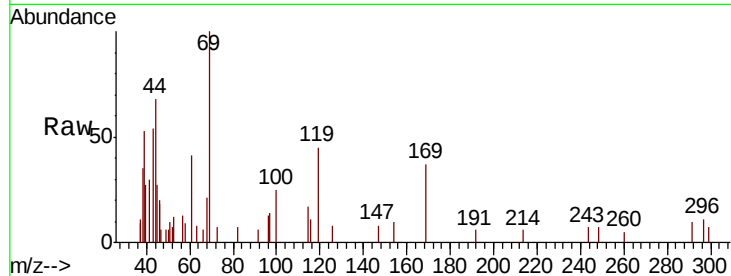




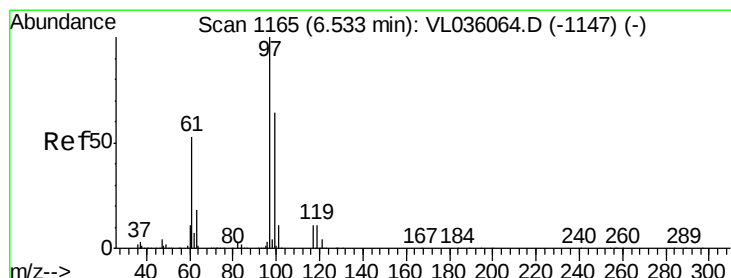
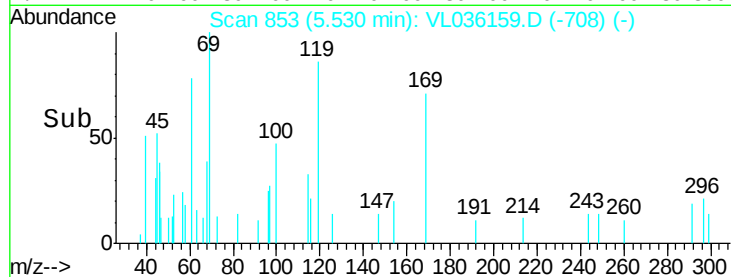
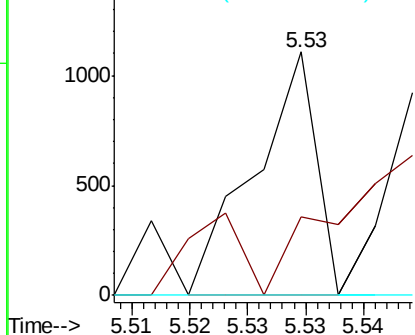
#31

cis-1,2-Dichloroethene
 Concen: 0.003 ppbv
 RT: 5.53 min Scan# 853
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

Tot Ion	Ratio	Lower	Upper
61	100		
96	9.1	47.3	70.9#
98	0.0	31.4	47.0#



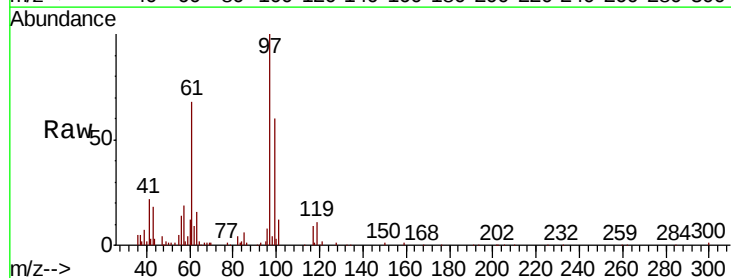
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



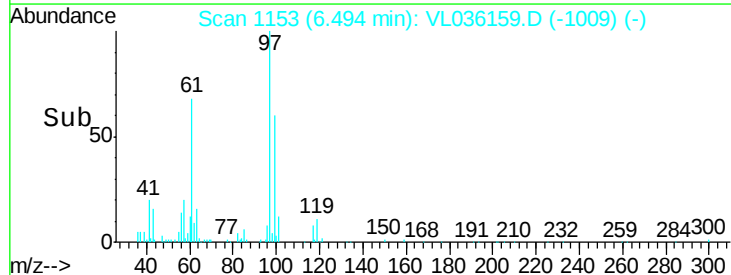
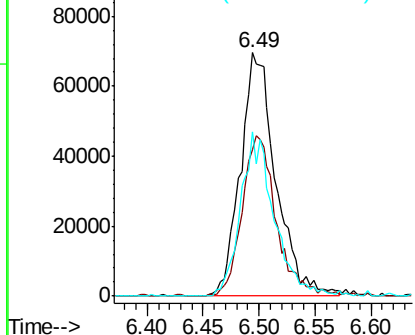
#32

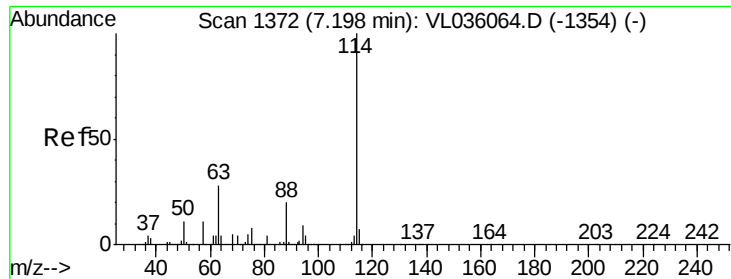
1,1,1-Trichloroethane
 Concen: 0.794 ppbv m
 RT: 6.49 min Scan# 1153
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	52.4	78.6
61	64.0	43.4	65.0



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: 7.16 min Scan# 1361

Delta R.T. -0.04 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

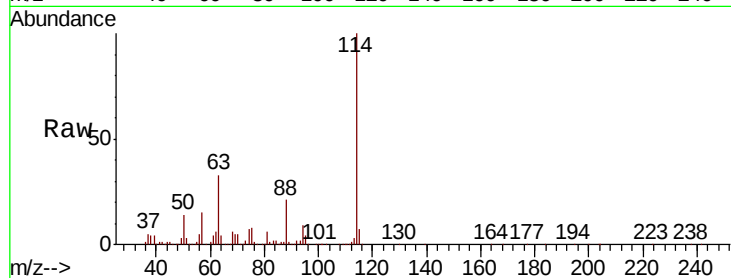
Tot Ion:114 Resp: 2544357

Ion Ratio Lower Upper

114 100

63 33.5 23.6 35.4

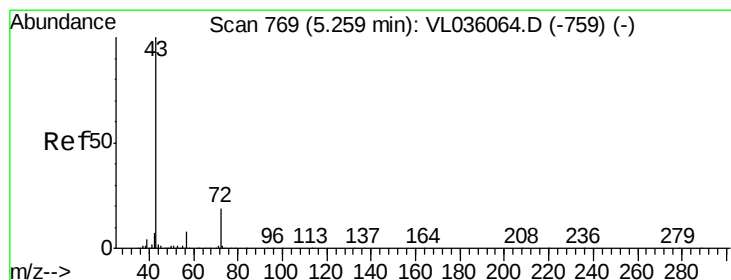
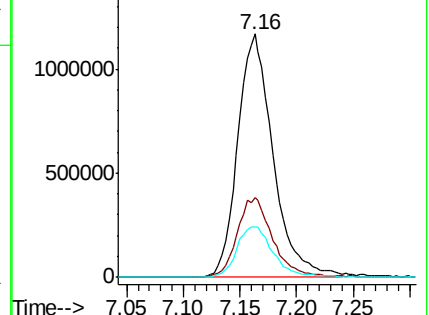
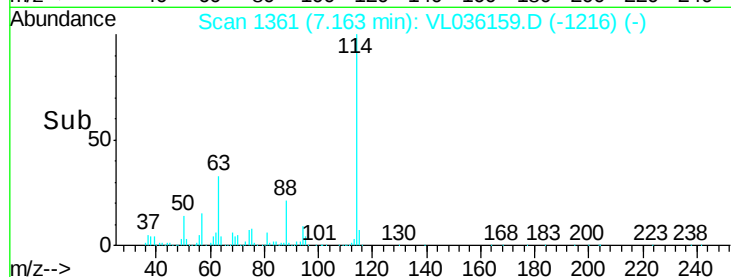
88 21.6 15.8 23.6



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.054 ppbv

RT: 5.24 min Scan# 762

Delta R.T. -0.02 min

Lab File: VL036159.D

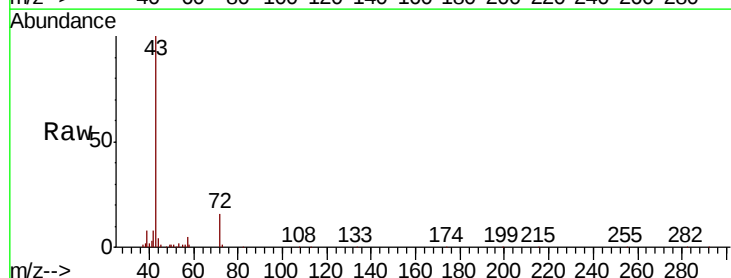
Acq: 11 Dec 2020 11:20

Tgt Ion: 43 Resp: 177825

Ion Ratio Lower Upper

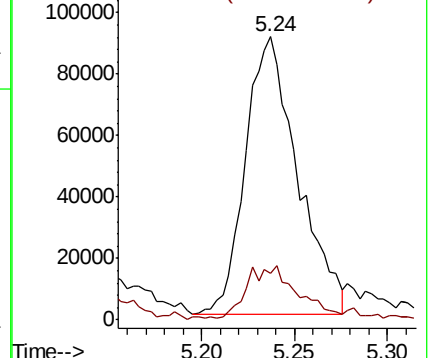
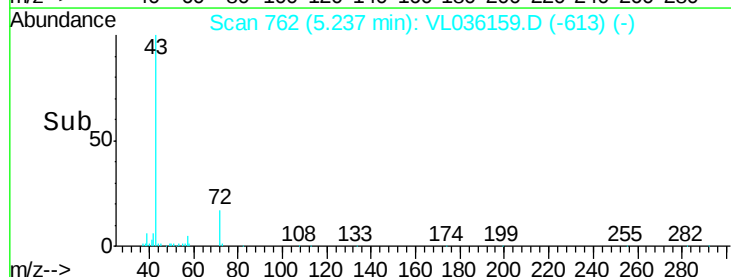
43 100

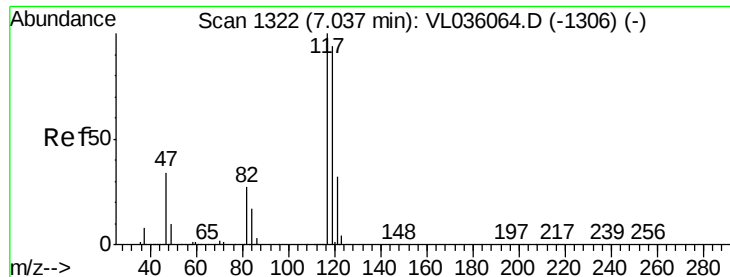
72 21.2 16.5 24.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.016 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.02 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

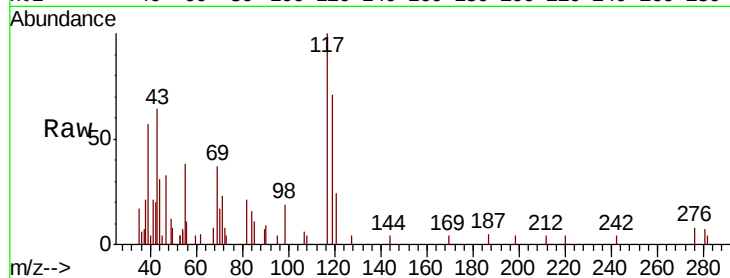
Tot Ion: 117 Resp: 2444

Ion Ratio Lower Upper

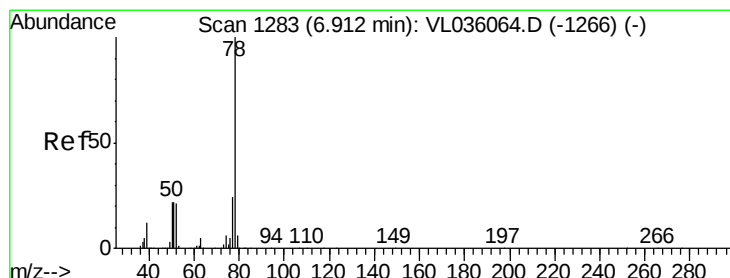
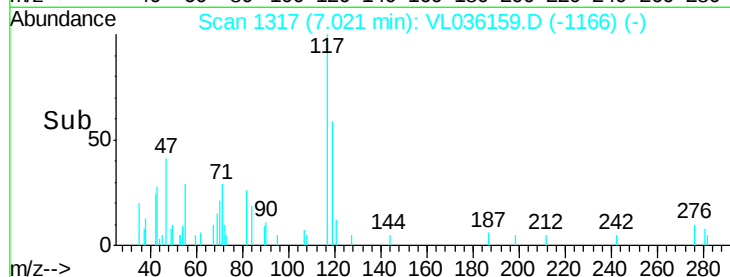
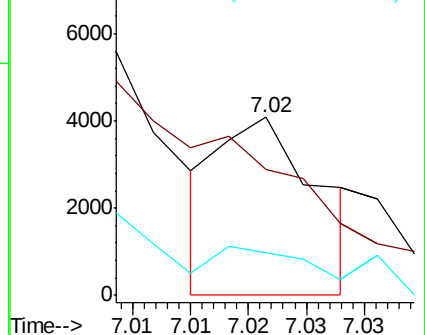
117 100

119 77.1 75.1 112.7

121 37.6 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: 0.593 ppbv

RT: 6.88 min Scan# 1272

Delta R.T. -0.04 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

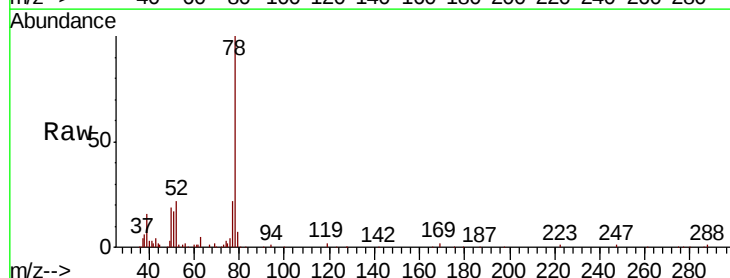
Tgt Ion: 78 Resp: 127887

Ion Ratio Lower Upper

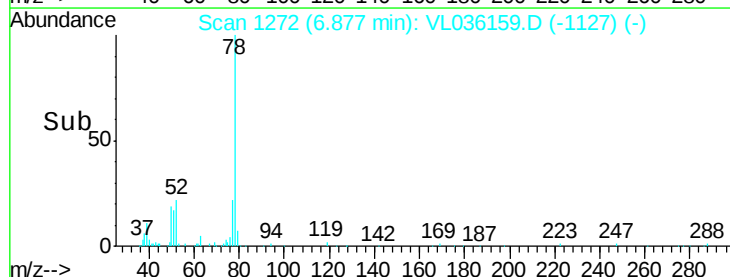
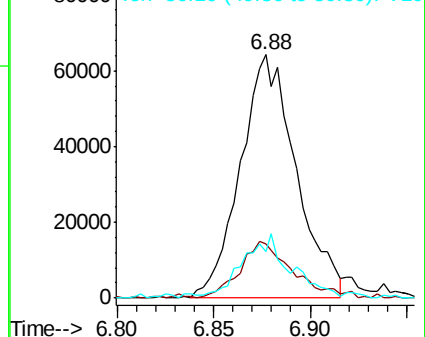
78 100

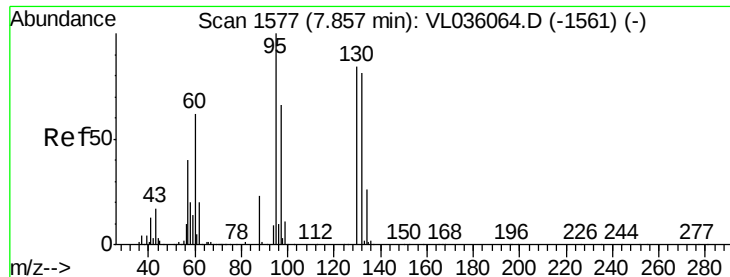
77 22.3 19.4 29.2

50 18.4 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





#38

Trichloroethene

Concen: 0.008 ppbv

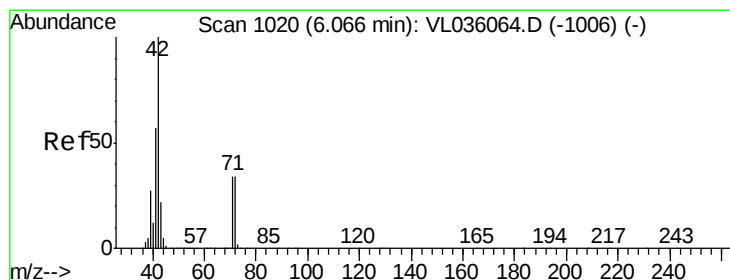
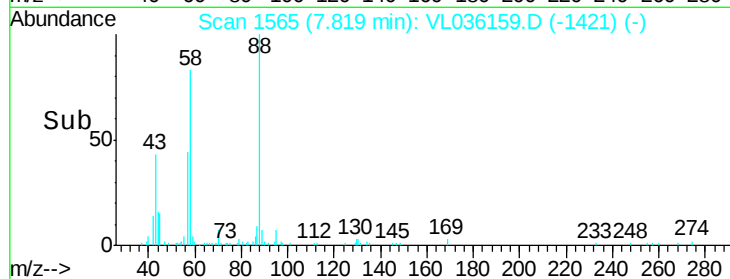
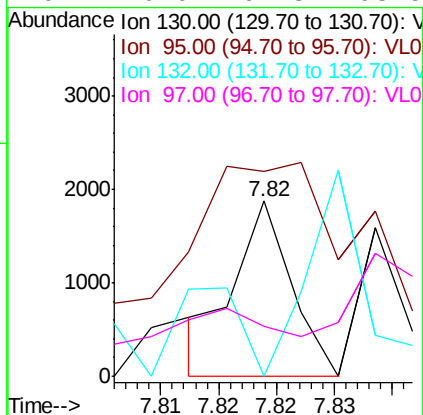
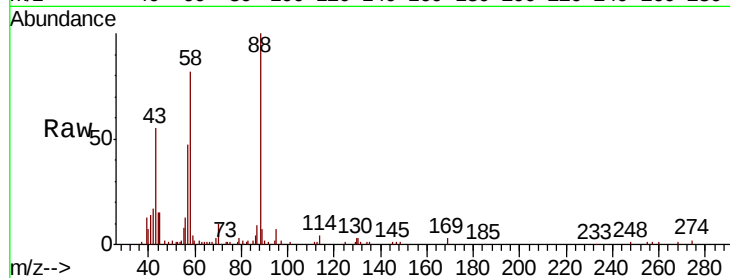
RT: 7.82 min Scan# 1565

Delta R.T. -0.04 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Tot Ion:	130	Resp:	637
Ion	Ratio	Lower	Upper
130	100		
95	51.0	95.2	142.8#
132	0.0	76.9	115.3#
97	0.0	62.3	93.5#



#41

Tetrahydrofuran

Concen: 0.018 ppbv

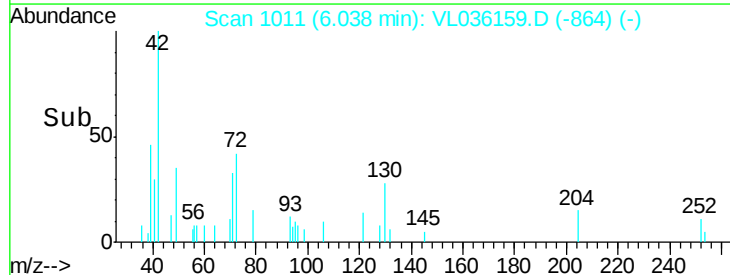
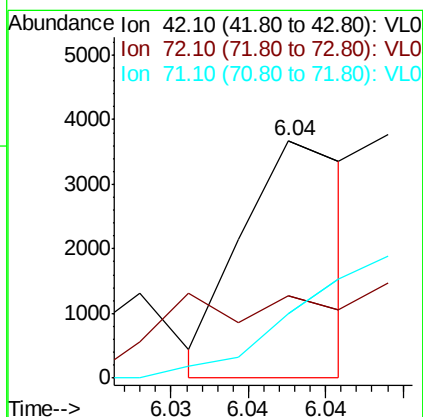
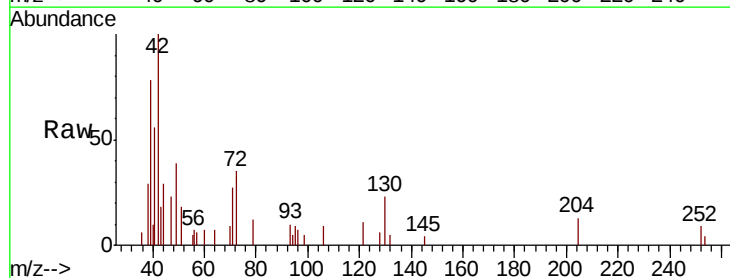
RT: 6.04 min Scan# 1011

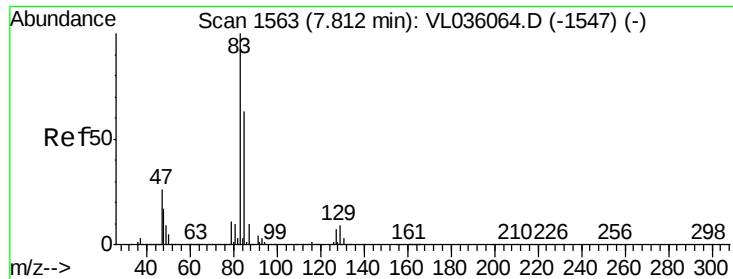
Delta R.T. -0.03 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Tgt Ion:	42	Resp:	1772
Ion	Ratio	Lower	Upper
42	100		
72	0.0	28.3	42.5#
71	0.0	27.3	40.9#





#42

Bromodichloromethane

Concen: 0.018 ppbv

RT: 7.78 min Scan# 1552

Delta R.T. -0.04 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

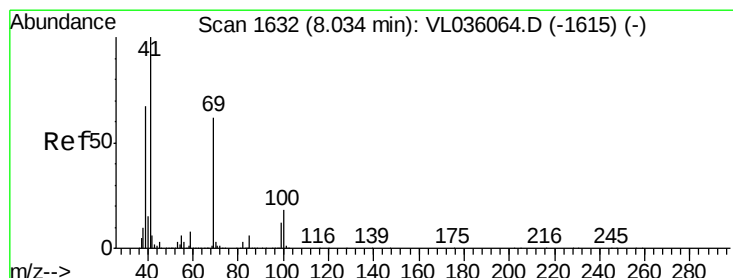
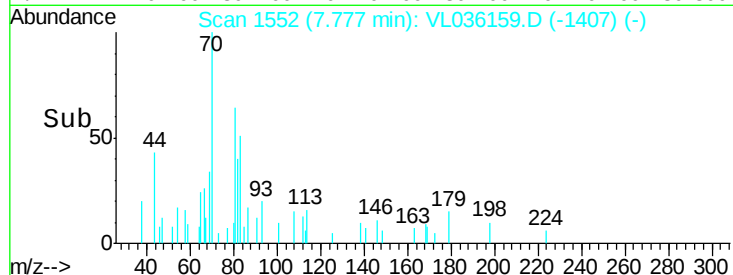
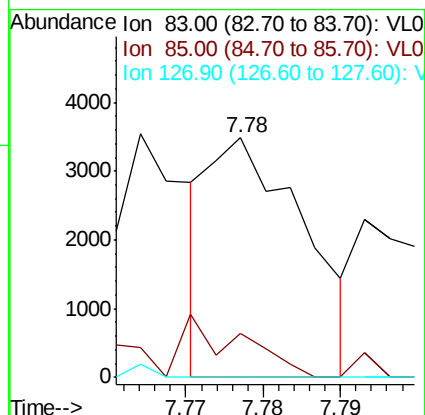
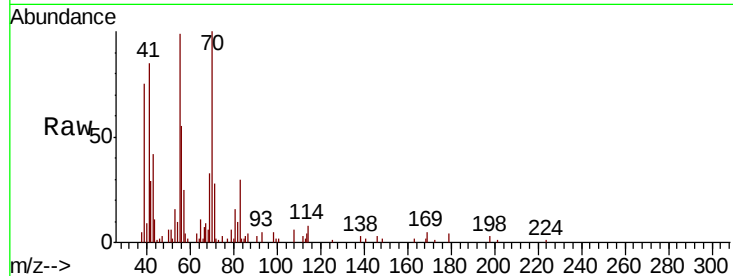
Tot Ion: 83 Resp: 2980

Ion Ratio Lower Upper

83 100

85 31.2 50.2 75.2#

127 0.0 5.5 8.3#



#43

Methyl Methacrylate

Concen: 0.007 ppbv

RT: 8.00 min Scan# 1621

Delta R.T. -0.04 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

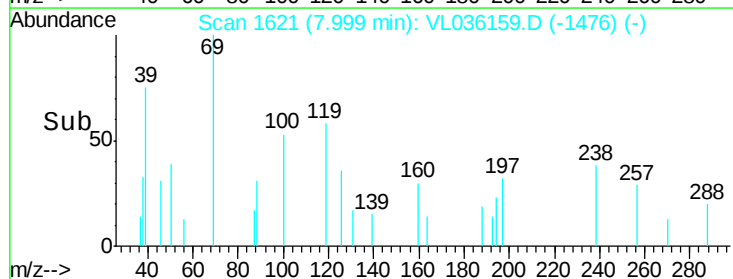
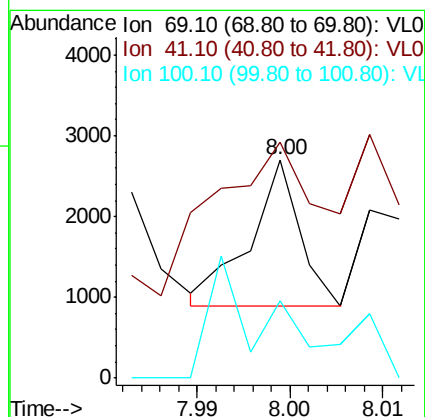
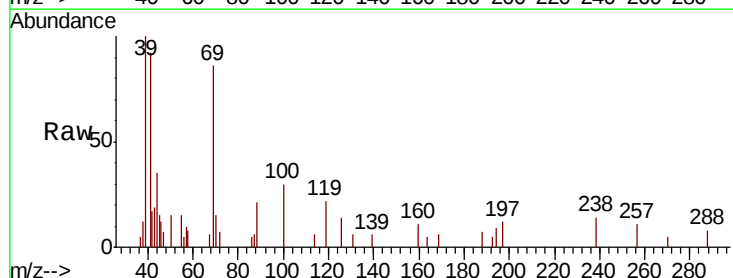
Tgt Ion: 69 Resp: 677

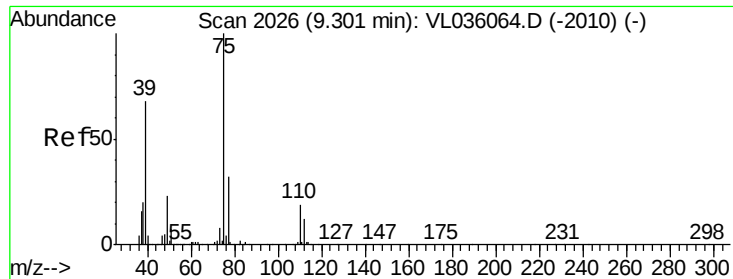
Ion Ratio Lower Upper

69 100

41 0.0 133.0 199.6#

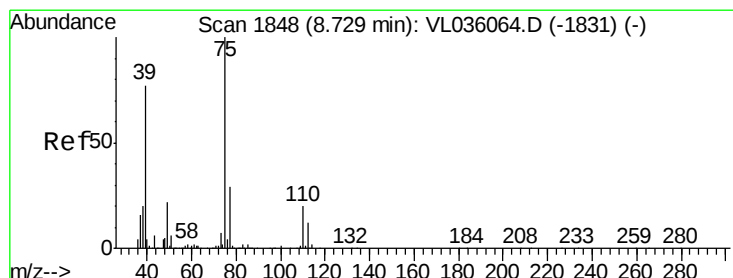
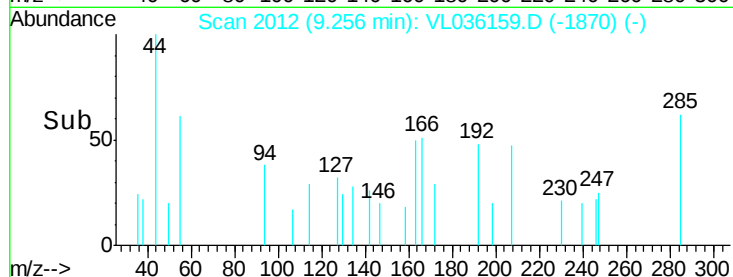
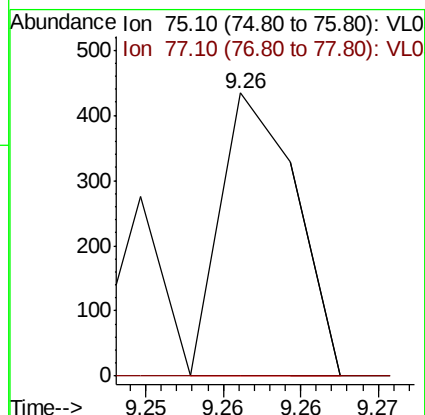
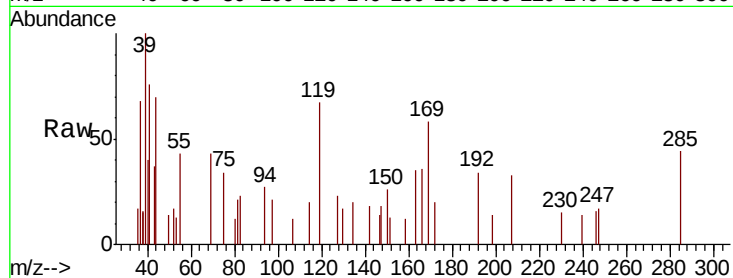
100 236.2 25.4 38.0#





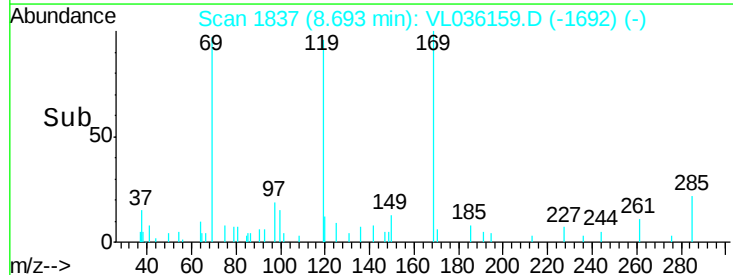
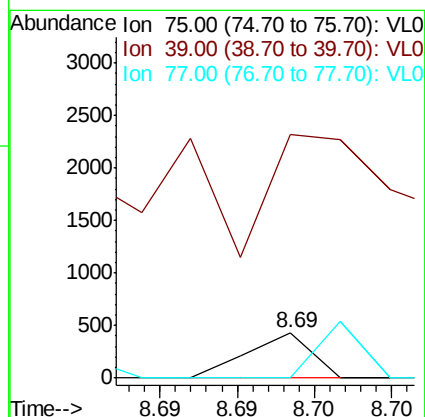
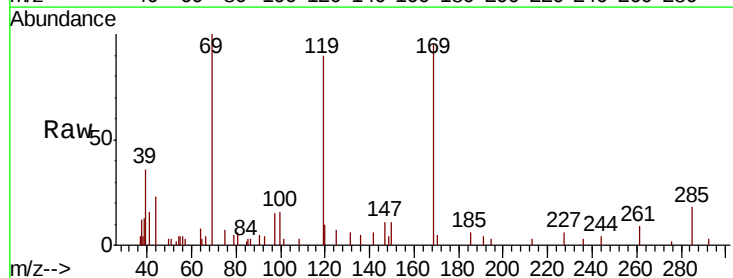
#45
 t-1,3-Dichloropropene
 Concen: 0.002 ppbv
 RT: 9.26 min Scan# 2012
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

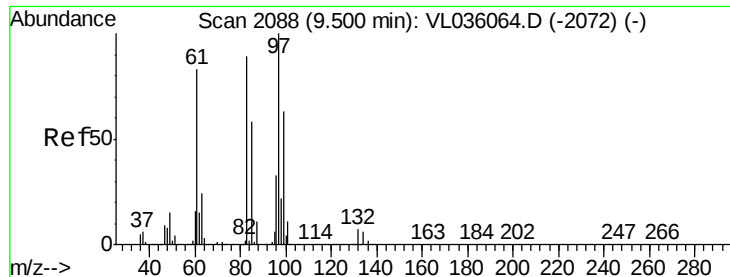
Tot Ion: 75 Resp: 147
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.0 39.0#



#46
 cis-1,3-Dichloropropene
 Concen: 0.001 ppbv
 RT: 8.69 min Scan# 1837
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

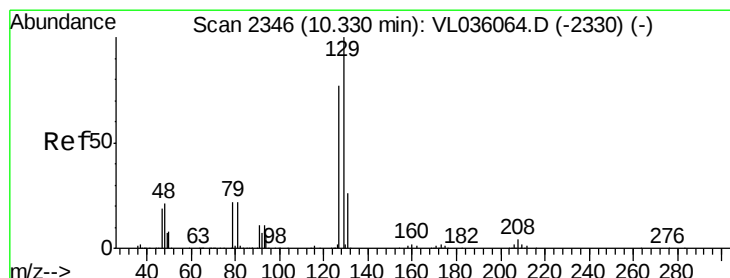
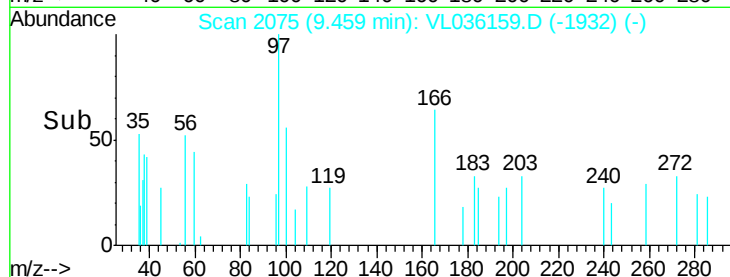
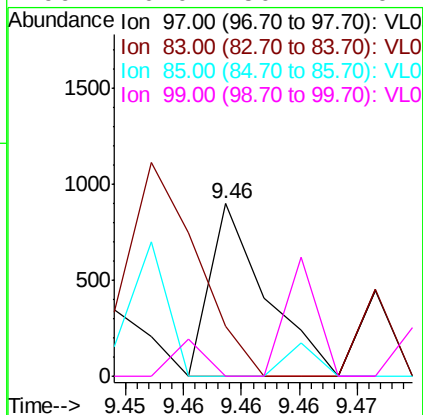
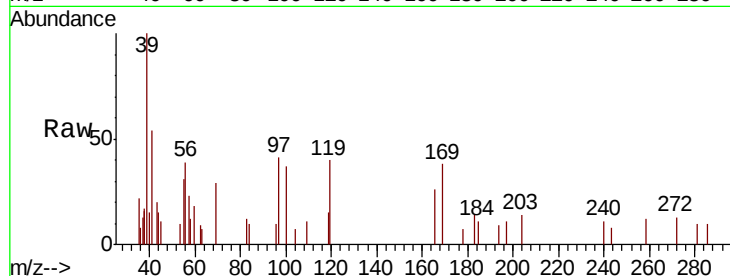
Tgt Ion: 75 Resp: 125
 Ion Ratio Lower Upper
 75 100
 39 9.6 61.6 92.4#
 77 0.0 23.0 34.6#





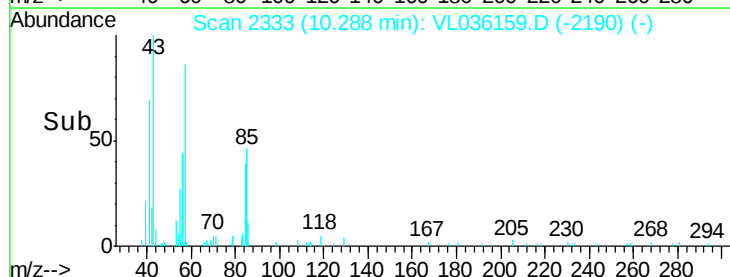
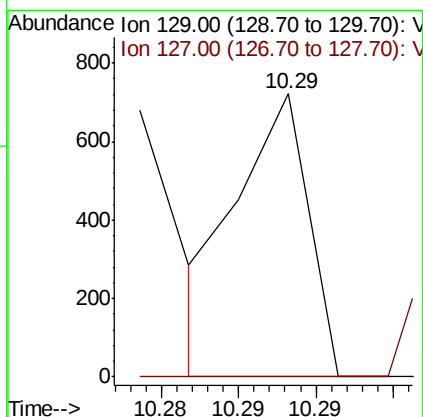
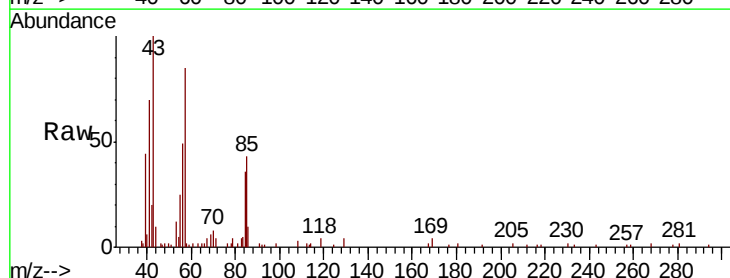
#47
 1,1,2-Trichloroethane
 Concen: 0.004 ppbv
 RT: 9.46 min Scan# 2075
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

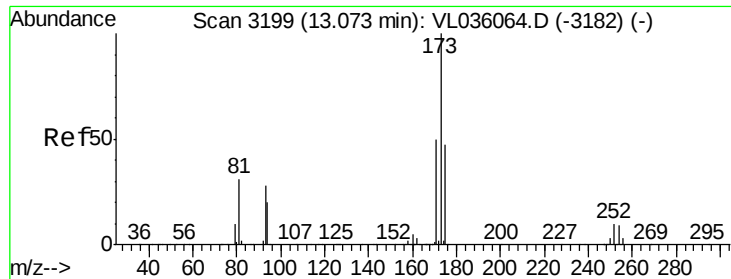
Tot Ion: 97 Resp: 298
 Ion Ratio Lower Upper
 97 100
 83 29.2 71.4 107.2#
 85 0.0 46.6 70.0#
 99 0.0 50.7 76.1#



#48
 Dibromochloromethane
 Concen: 0.002 ppbv
 RT: 10.29 min Scan# 2333
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

Tgt Ion: 129 Resp: 227
 Ion Ratio Lower Upper
 129 100
 127 70.5 39.0 117.0





#49

Bromoform

Concen: 0.001 ppbv

RT: 13.01 min Scan# 3180

Delta R.T. -0.06 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

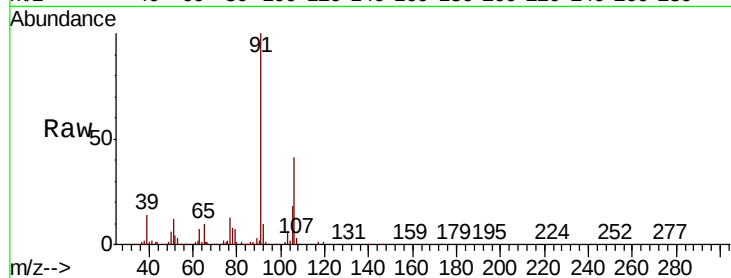
Tot Ion: 173 Resp: 112

Ion Ratio Lower Upper

173 100

175 0.0 39.8 59.6#

171 125.9 42.5 63.7#



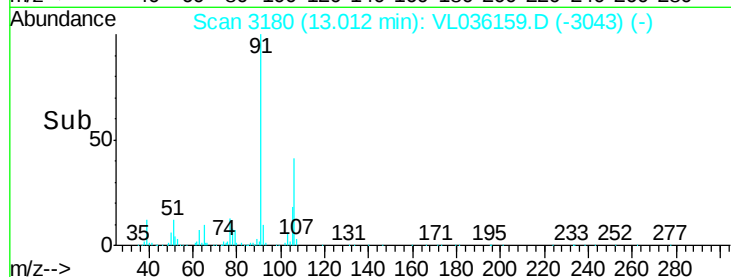
Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

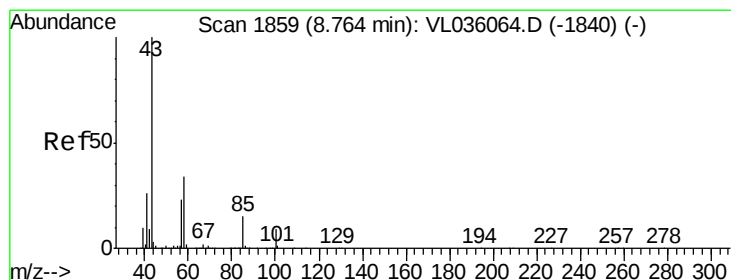
Ion 170.90 (170.60 to 171.60): V

13.01

13.02



Time-->



#50

4-Methyl-2-Pentanone

Concen: 0.006 ppbv

RT: 8.72 min Scan# 1846

Delta R.T. -0.04 min

Lab File: VL036159.D

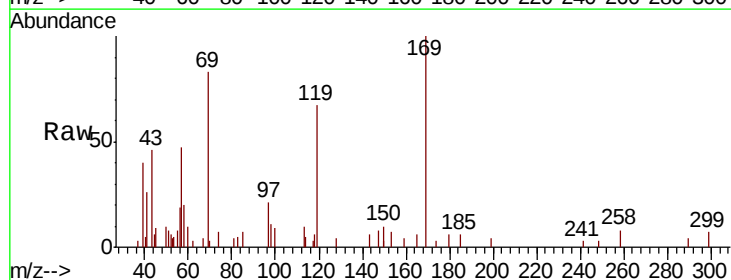
Acq: 11 Dec 2020 11:20

Tgt Ion: 43 Resp: 1592

Ion Ratio Lower Upper

43 100

58 0.0 27.4 41.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

6000

5000

4000

3000

2000

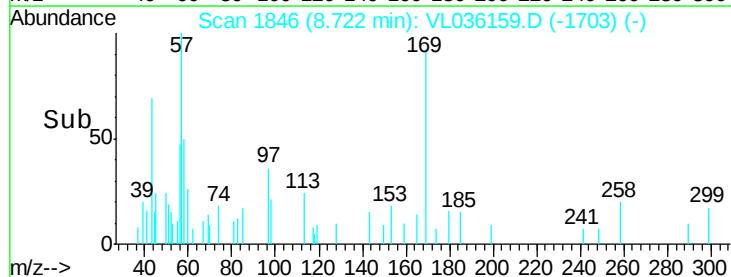
1000

0

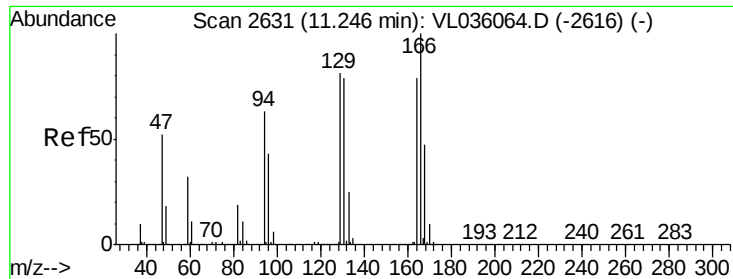
8.71

8.72

8.73



Time-->



#52

Tetrachloroethene

Concen: 13.779 ppbv

RT: 11.21 min Scan# 2621

Delta R.T. -0.03 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Tot Ion:164 Resp: 1075559

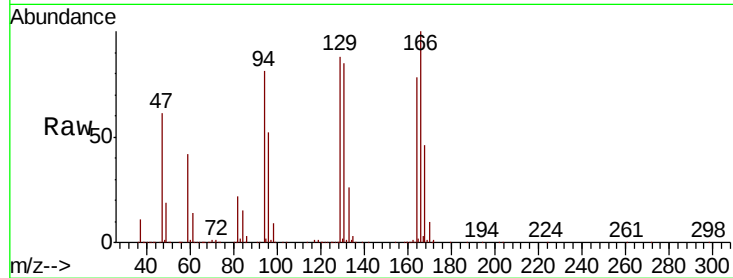
Ion Ratio Lower Upper

164 100

166 127.4 101.9 152.9

129 111.8 82.1 123.1

131 108.4 80.8 121.2

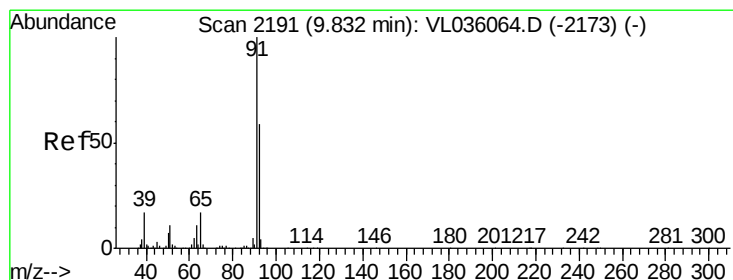
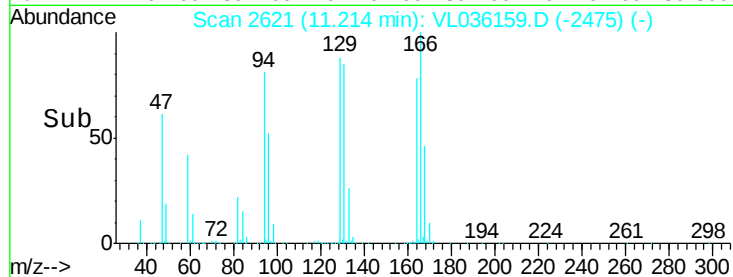
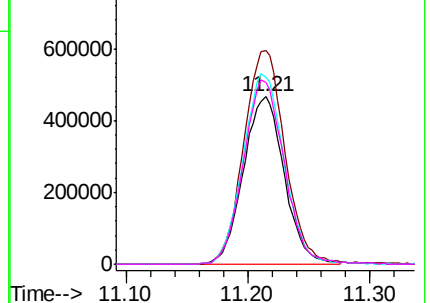


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 1.004 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.04 min

Lab File: VL036159.D

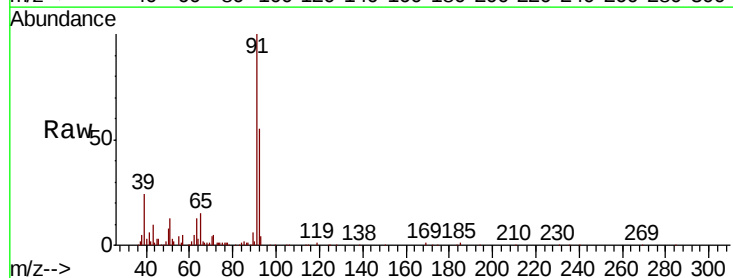
Acq: 11 Dec 2020 11:20

Tgt Ion: 91 Resp: 243064

Ion Ratio Lower Upper

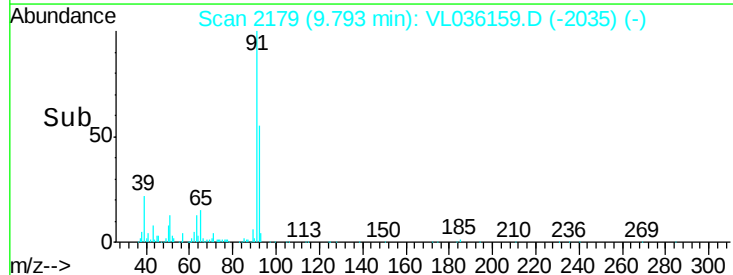
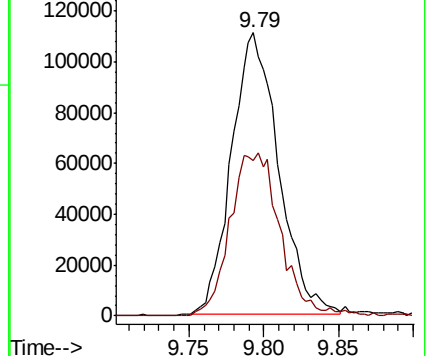
91 100

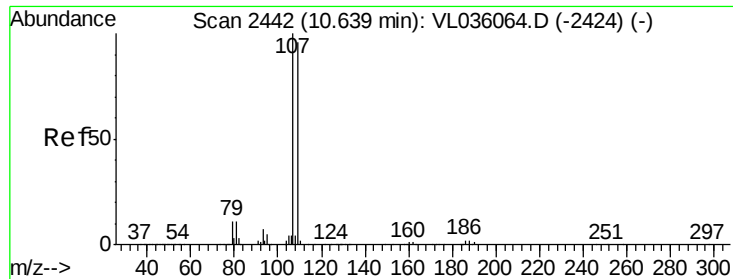
92 62.1 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

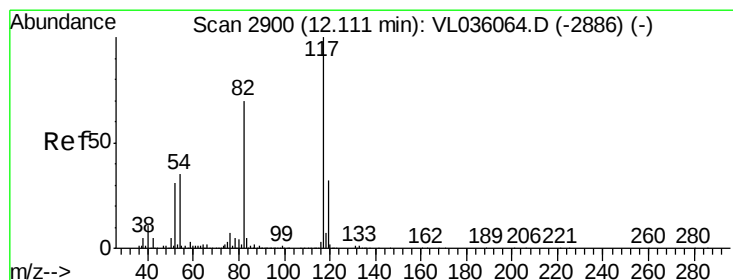
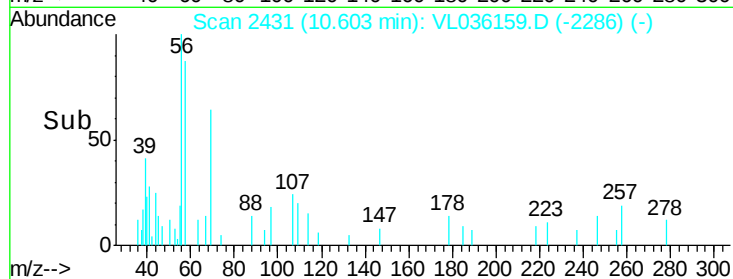
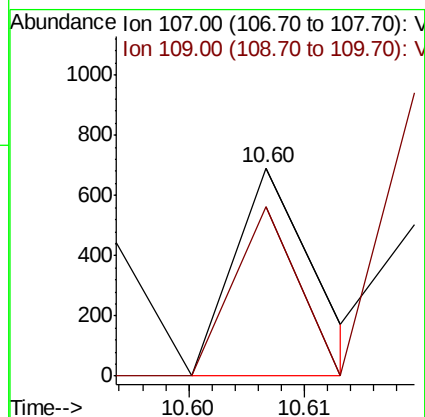
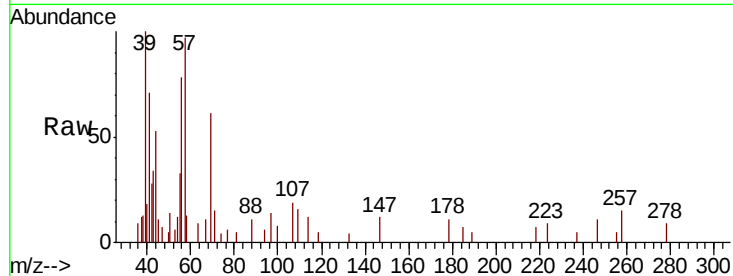
Ion 92.10 (91.80 to 92.80): VL0





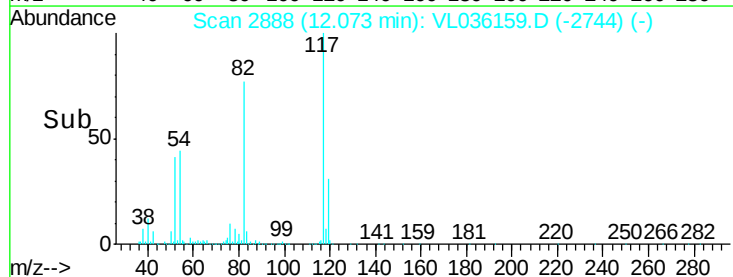
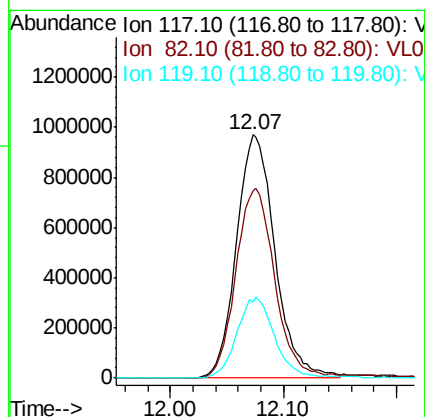
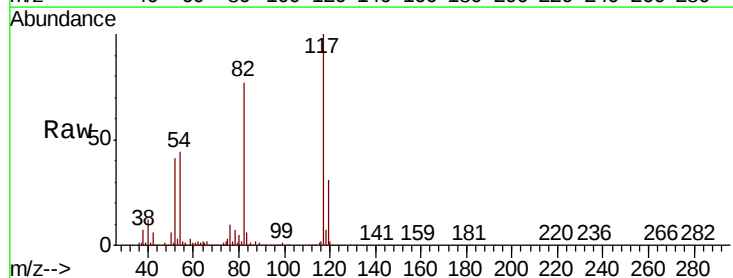
#54
 1,2-Dibromoethane
 Concen: 0.001 ppbv
 RT: 10.60 min Scan# 2431
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

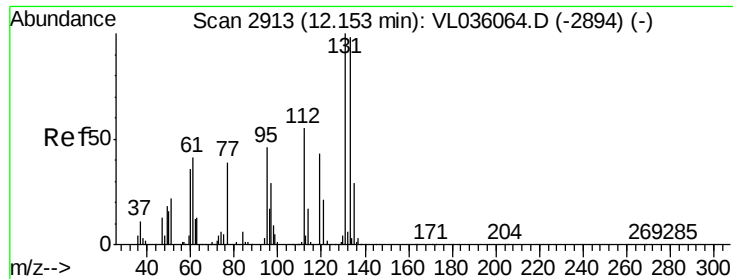
Tot Ion:107 Resp: 167
 Ion Ratio Lower Upper
 107 100
 109 81.4 76.6 115.0



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min Scan# 2888
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

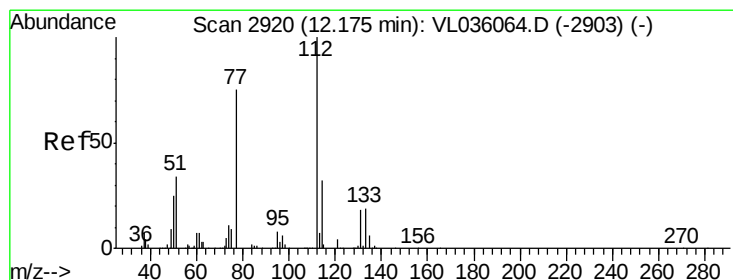
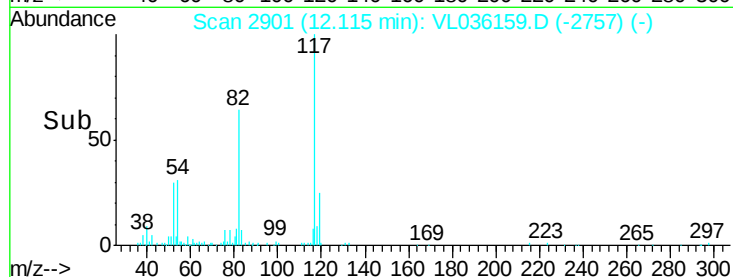
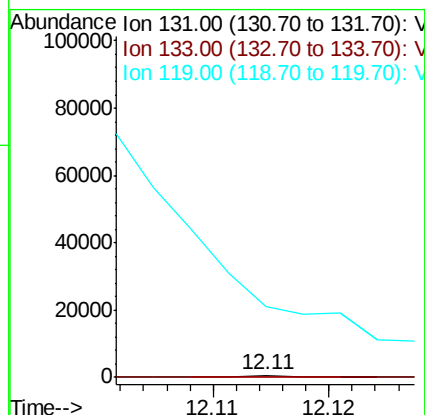
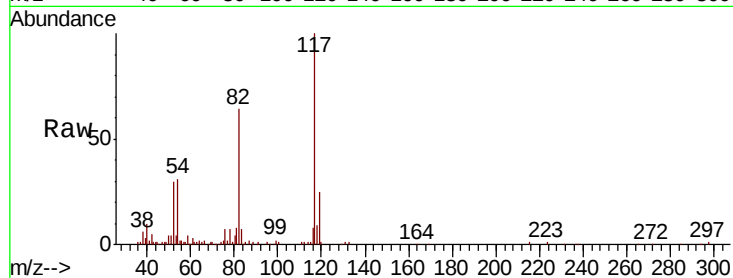
Tgt Ion:117 Resp: 2301381
 Ion Ratio Lower Upper
 117 100
 82 80.4 0.0 0.0#
 119 33.0 0.0 0.0#





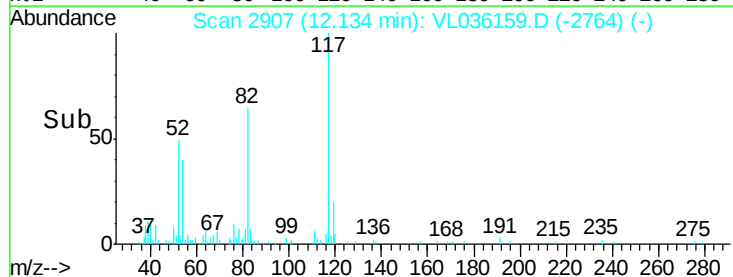
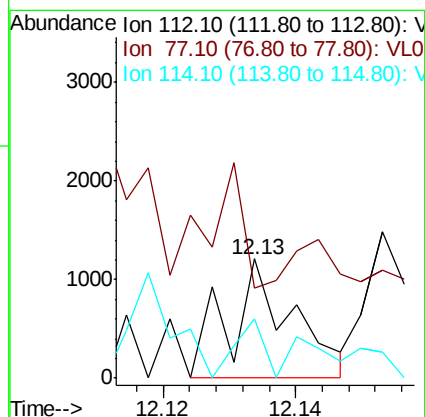
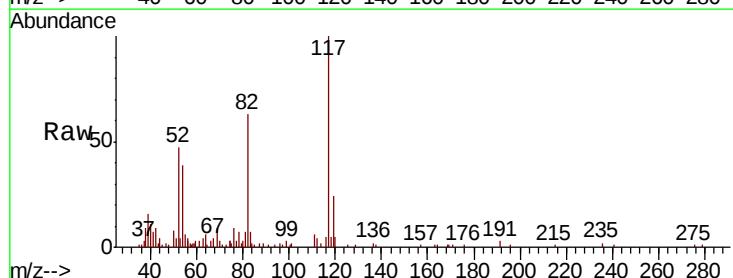
#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.002 ppbv
 RT: 12.11 min Scan# 2901
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

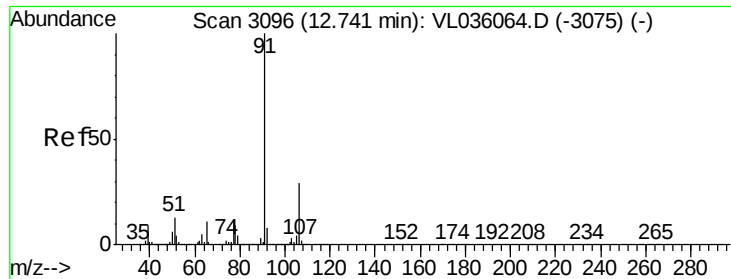
Tot Ion:131 Resp: 226
 Ion Ratio Lower Upper
 131 100
 133 0.0 77.7 116.5#
 119 0.0 51.6 77.4#



#57
 Chlorobenzene
 Concen: 0.005 ppbv
 RT: 12.13 min Scan# 2907
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

Tgt Ion:112 Resp: 795
 Ion Ratio Lower Upper
 112 100
 77 0.0 60.5 90.7#
 114 36.1 29.2 35.6#





#58

Ethyl Benzene

Concen: 1.983 ppbv

RT: 12.70 min Scan# 3083

Delta R.T. -0.04 min

Lab File: VL036159.D

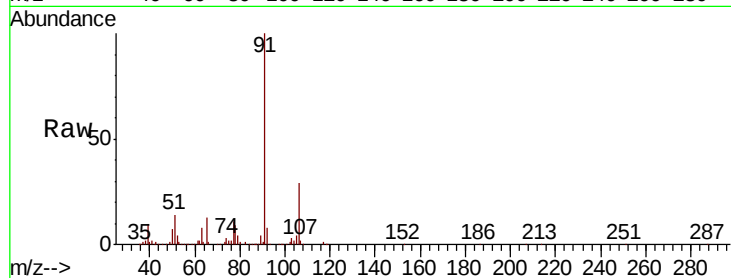
Acq: 11 Dec 2020 11:20

Tot Ion: 91 Resp: 625408

Ion Ratio Lower Upper

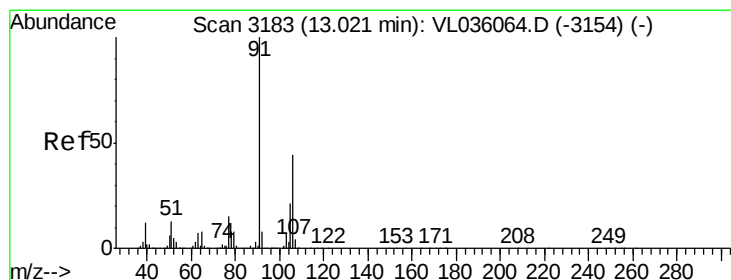
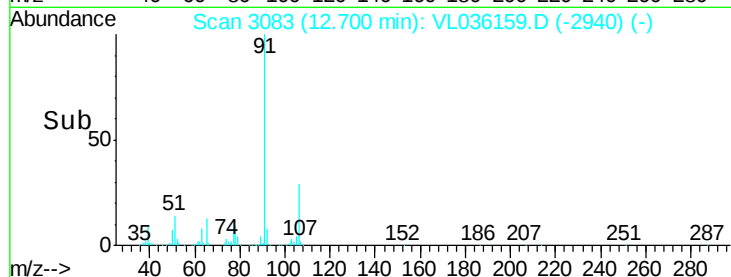
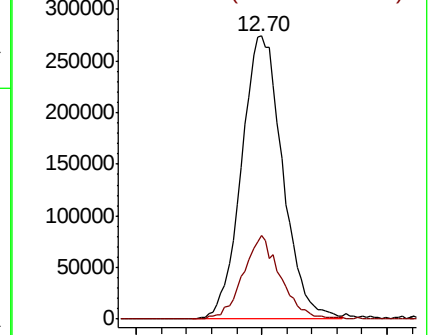
91 100

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: 9.923 ppbv

RT: 12.95 min Scan# 3162

Delta R.T. -0.07 min

Lab File: VL036159.D

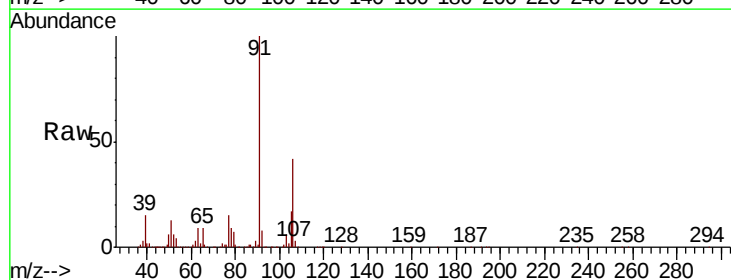
Acq: 11 Dec 2020 11:20

Tgt Ion: 91 Resp: 2635913

Ion Ratio Lower Upper

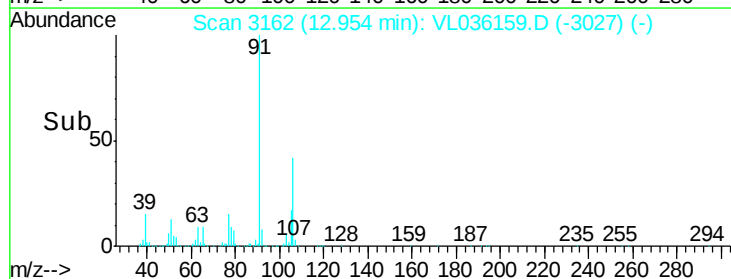
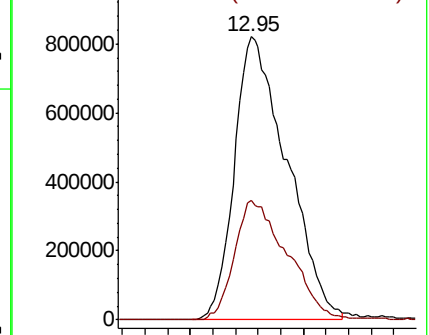
91 100

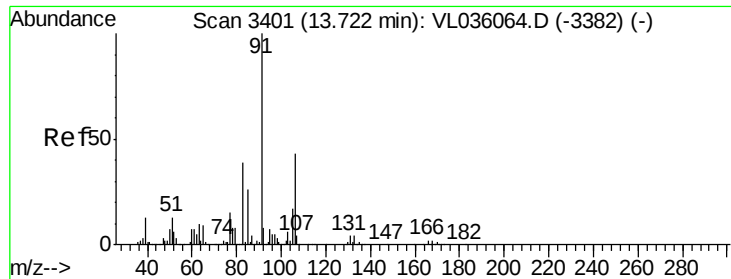
106 42.9 33.6 50.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

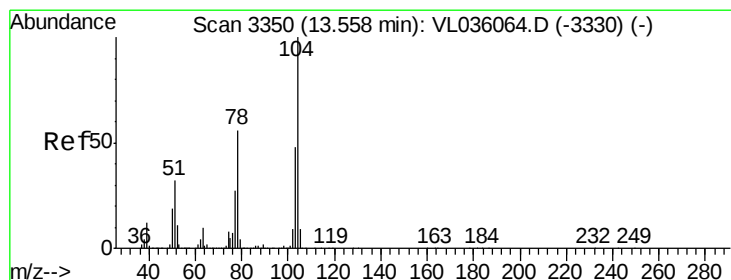
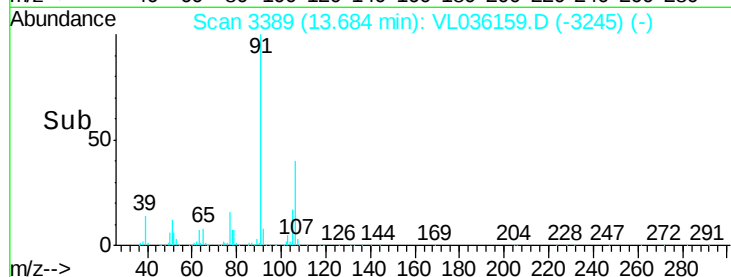
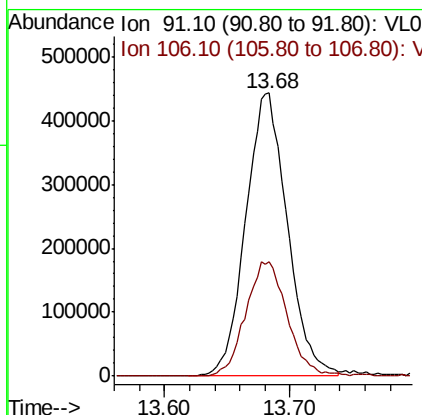
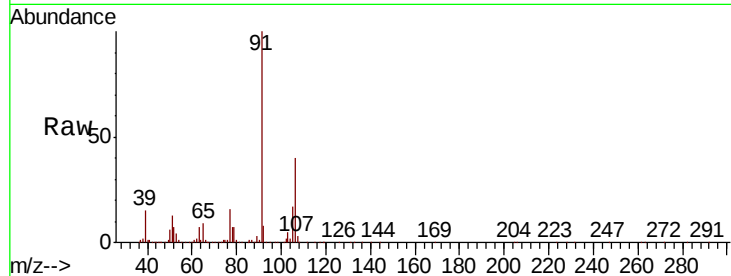
Ion 106.10 (105.80 to 106.80): V





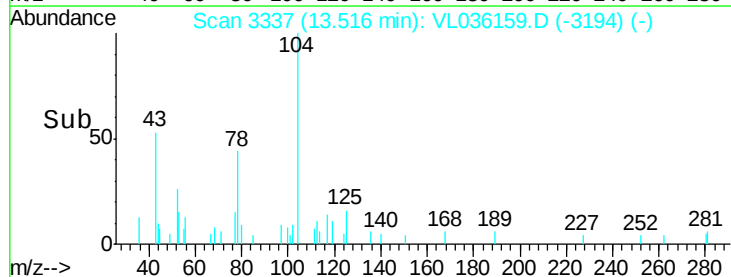
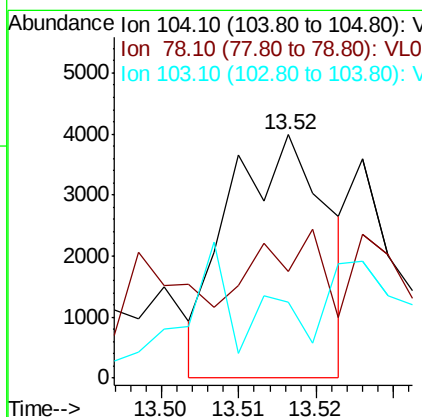
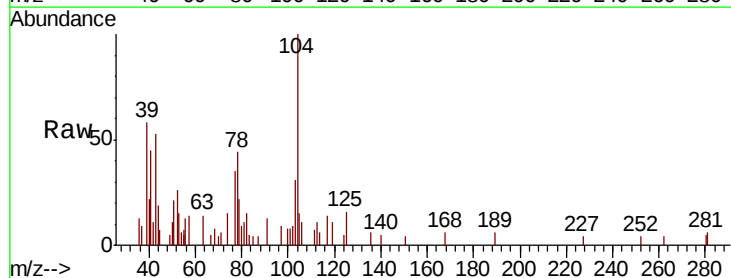
#60
o-Xylene
Concen: 4.056 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. -0.04 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

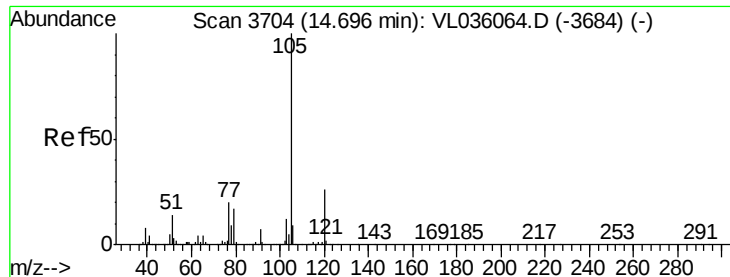
Tot Ion: 91 Resp: 1015131
Ion Ratio Lower Upper
91 100
106 41.1 21.6 64.6



#61
Styrene
Concen: 0.022 ppbv
RT: 13.52 min Scan# 3337
Delta R.T. -0.04 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

Tgt Ion: 104 Resp: 3524
Ion Ratio Lower Upper
104 100
78 156.9 45.8 68.8#
103 0.0 38.6 57.8#





#62

Isopropylbenzene

Concen: 0.192 ppbv m

RT: 14.66 min Scan# 3692

Delta R.T. -0.04 min

Lab File: VL036159.D

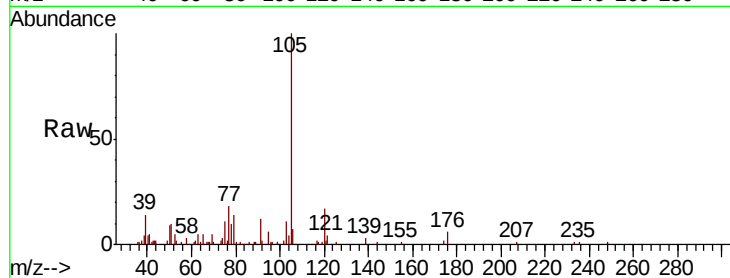
Acq: 11 Dec 2020 11:20

Tot Ion: 105 Resp: 71129

Ion Ratio Lower Upper

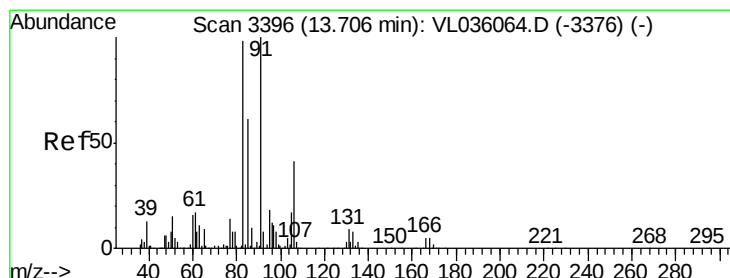
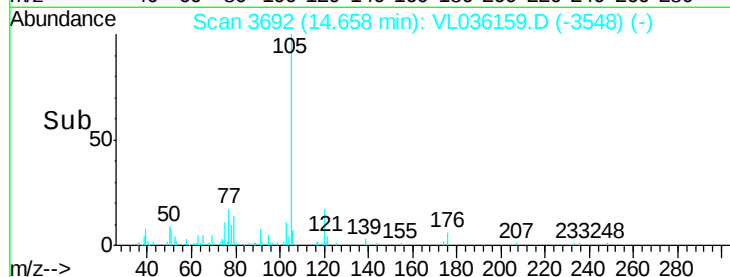
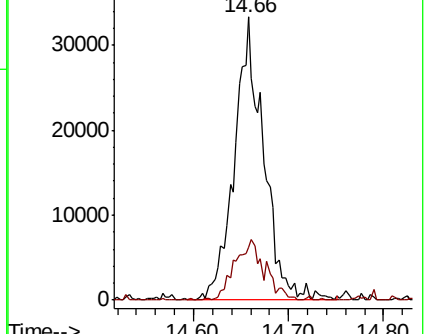
105 100

120 22.3 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.004 ppbv

RT: 13.67 min Scan# 3384

Delta R.T. -0.04 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

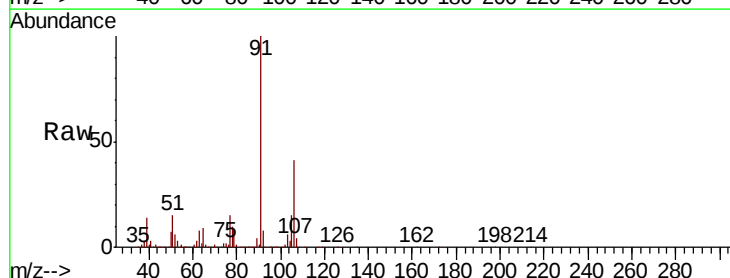
Tgt Ion: 83 Resp: 616

Ion Ratio Lower Upper

83 100

131 6.5 4.6 13.8

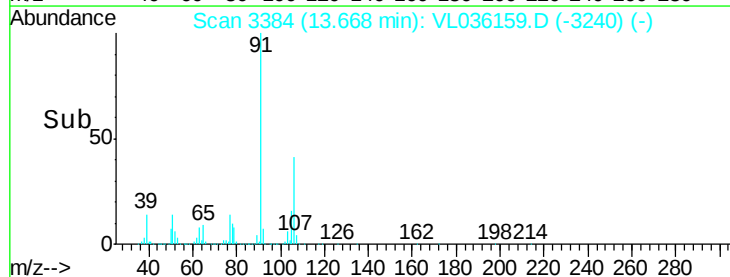
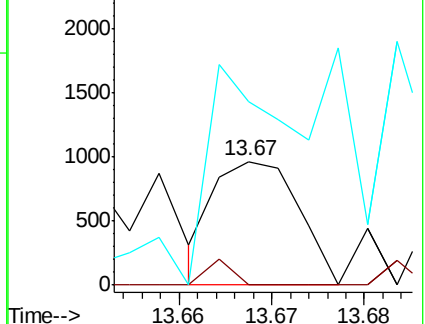
85 0.0 32.5 97.5#

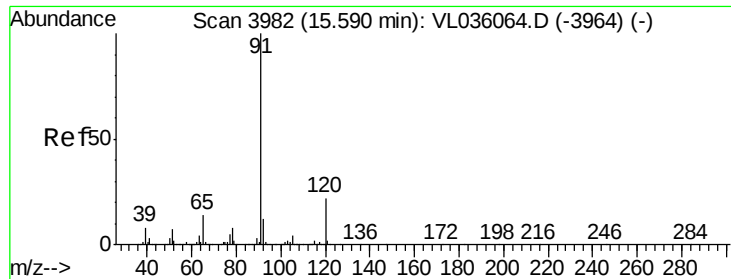


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

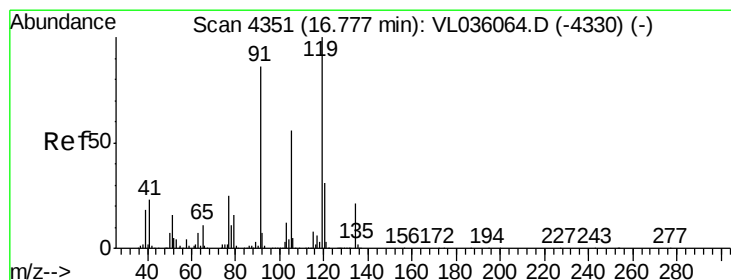
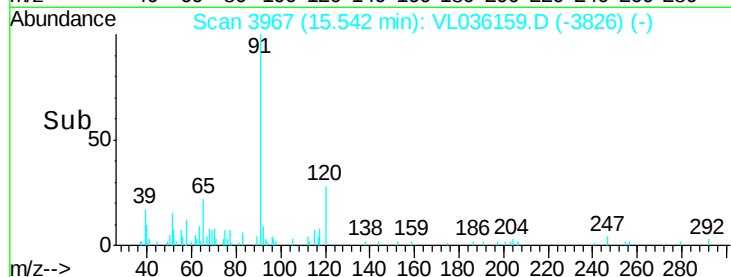
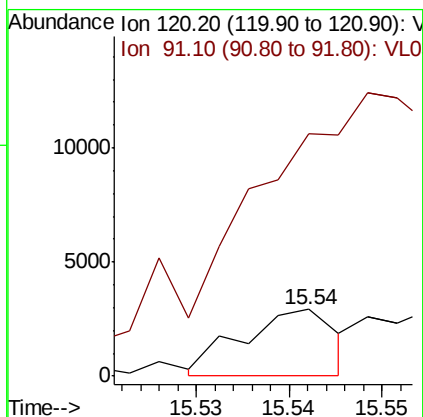
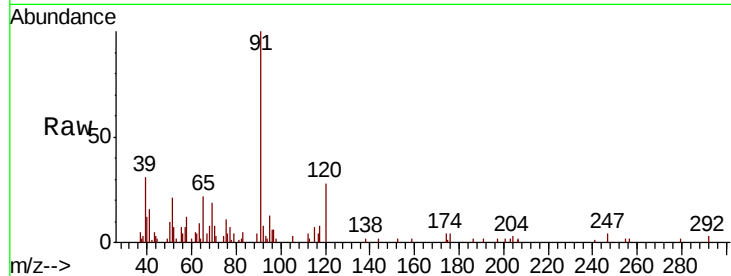
Ion 85.00 (84.70 to 85.70): VL0





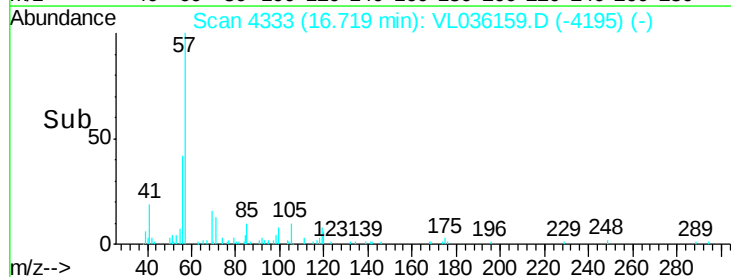
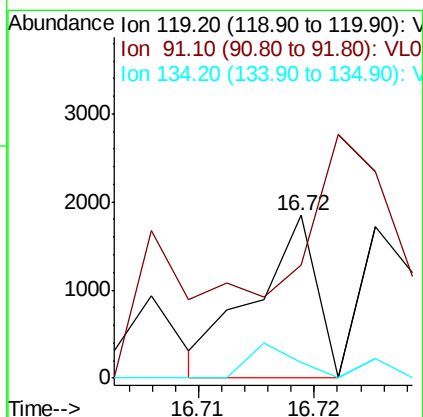
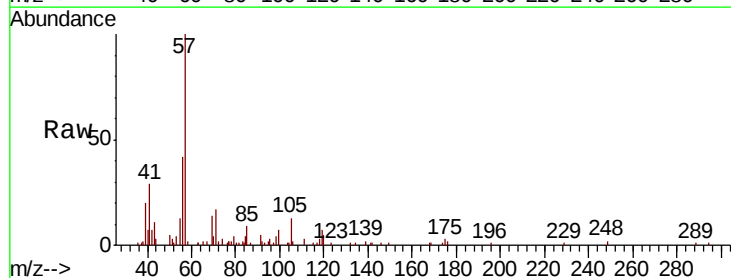
#64
n-propylbenzene
Concen: 0.023 ppbv
RT: 15.54 min Scan# 3967
Delta R.T. -0.05 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

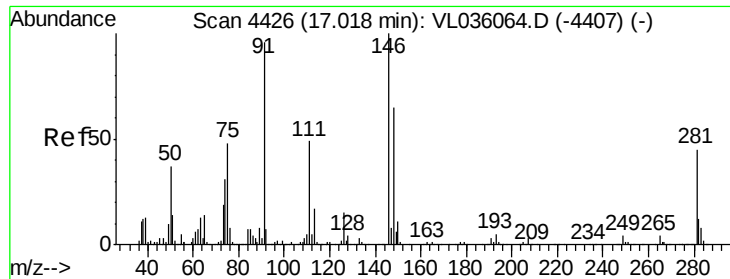
Tot Ion:120 Resp: 2046
Ion Ratio Lower Upper
120 100
91 0.0 388.9 583.3#



#65
tert-Butylbenzene
Concen: 0.002 ppbv
RT: 16.72 min Scan# 4333
Delta R.T. -0.06 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

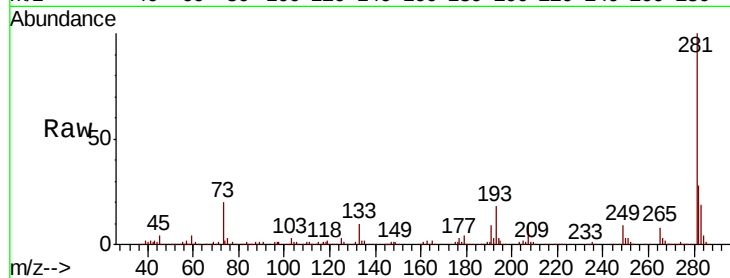
Tgt Ion:119 Resp: 678
Ion Ratio Lower Upper
119 100
91 0.0 70.2 105.2#
134 0.0 15.8 23.6#



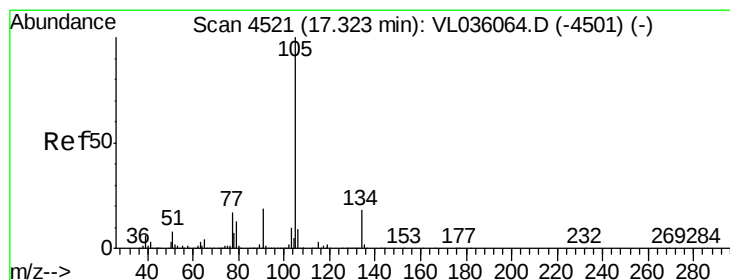
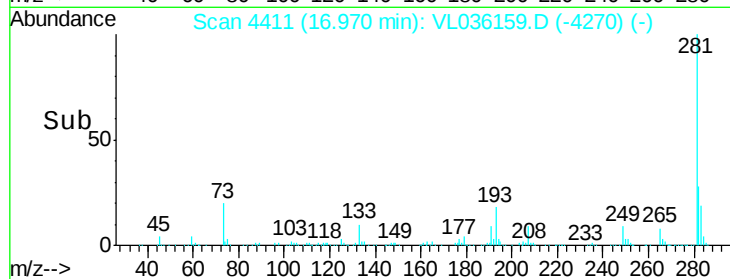
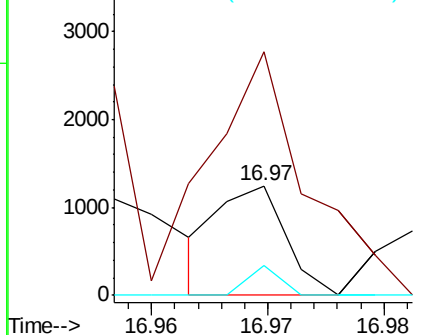


#66
Benzvl Chloride
Concen: 0.007 ppbv
RT: 16.97 min Scan# 4411
Delta R.T. -0.05 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

Tot Ion: 91 Resp: 502
Ion Ratio Lower Upper
91 100
126 785.3 13.5 20.3#
128 0.0 4.4 6.6#

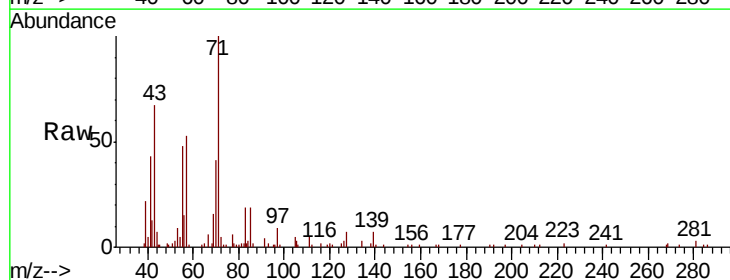


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V
Ion 128.10 (127.80 to 128.80): V

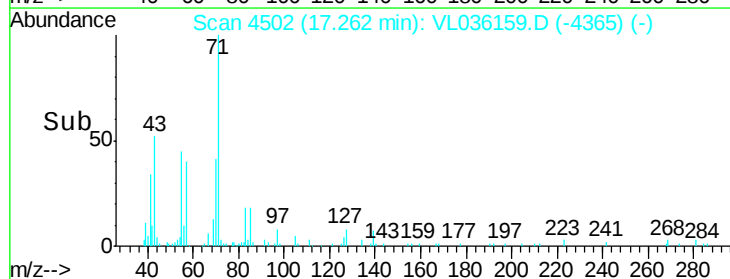
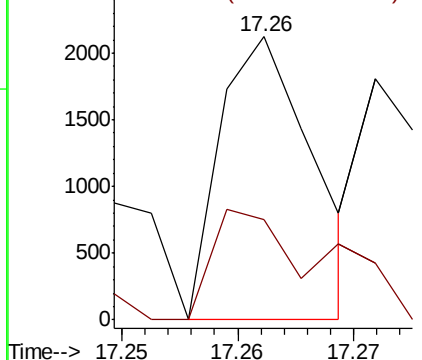


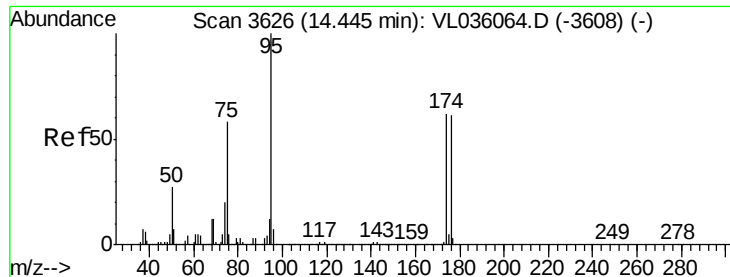
#67
sec-Butylbenzene
Concen: 0.003 ppbv
RT: 17.26 min Scan# 4502
Delta R.T. -0.06 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

Tgt Ion: 105 Resp: 1174
Ion Ratio Lower Upper
105 100
134 0.0 14.2 21.4#



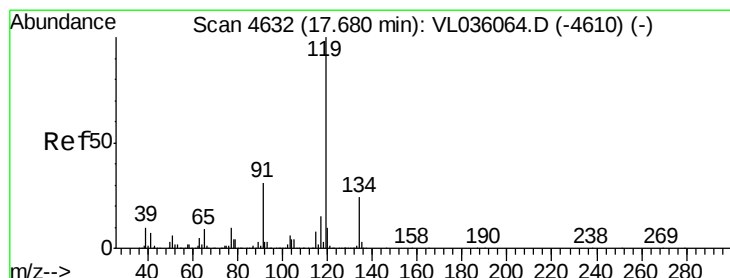
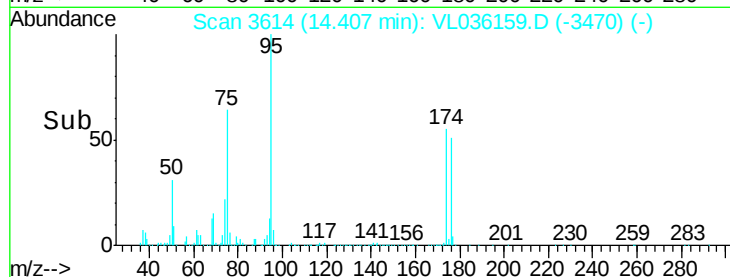
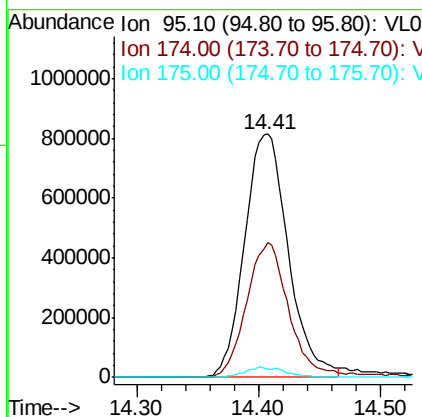
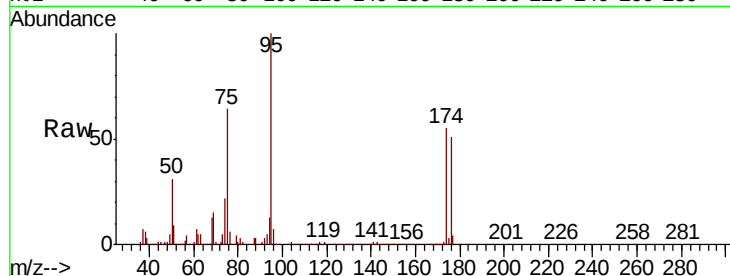
Abundance Ion 105.10 (104.80 to 105.80): V
Ion 134.20 (133.90 to 134.90): V





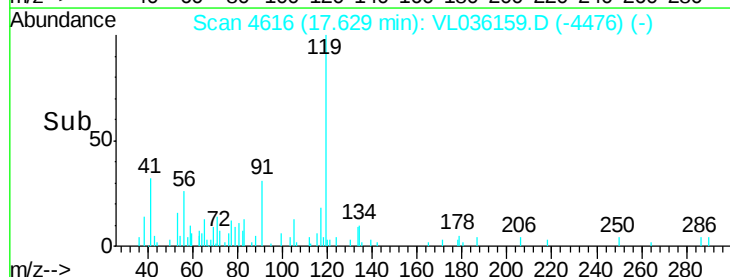
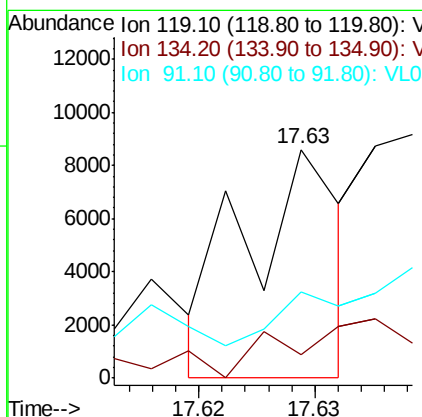
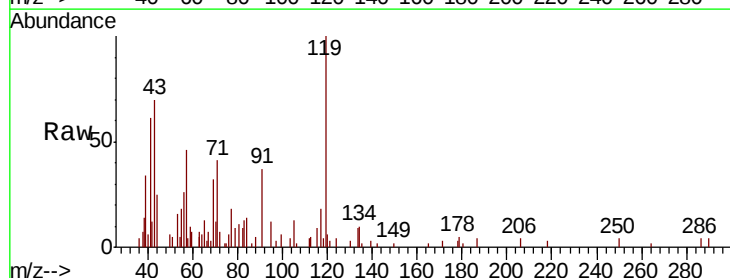
#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.034 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

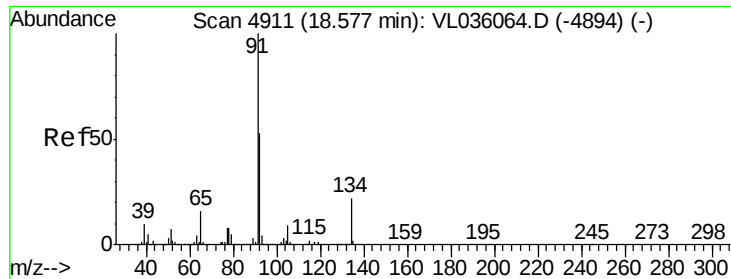
Tot Ion: 95 Resp: 2016307
 Ion Ratio Lower Upper
 95 100
 174 56.0 50.7 76.1
 175 4.0 4.0 6.0



#69
 p-Isopropyltoluene
 Concen: 0.015 ppbv
 RT: 17.63 min Scan# 4616
 Delta R.T. -0.05 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

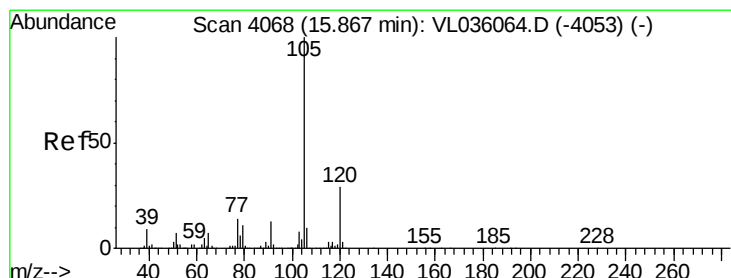
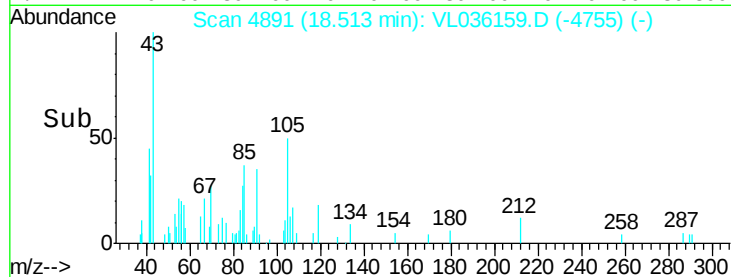
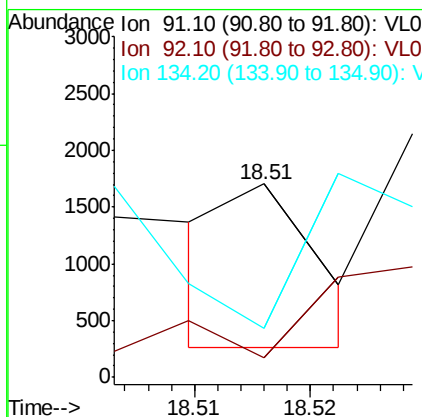
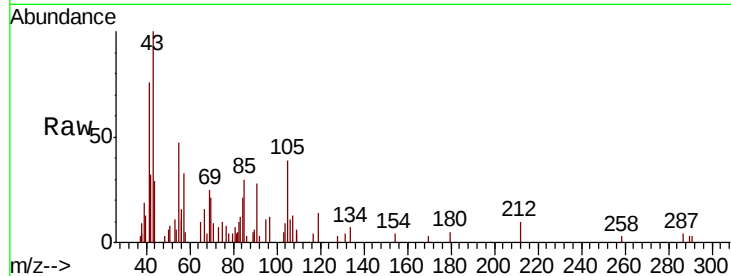
Tgt Ion: 119 Resp: 4927
 Ion Ratio Lower Upper
 119 100
 134 0.0 19.8 29.6#
 91 0.0 25.8 38.6#





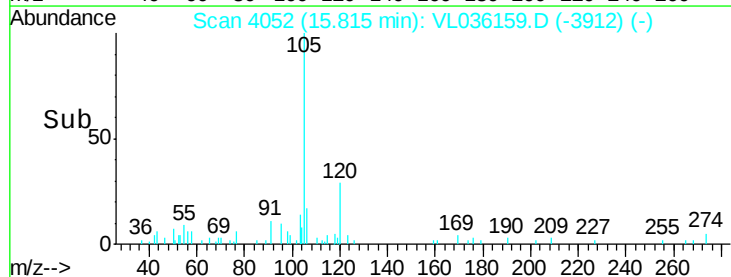
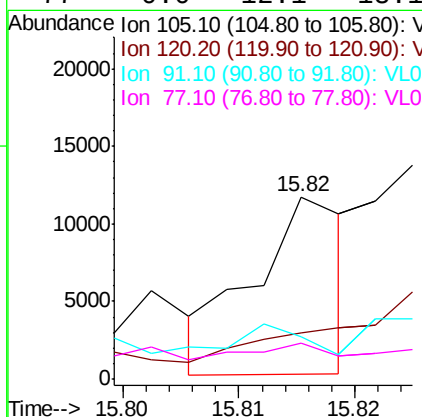
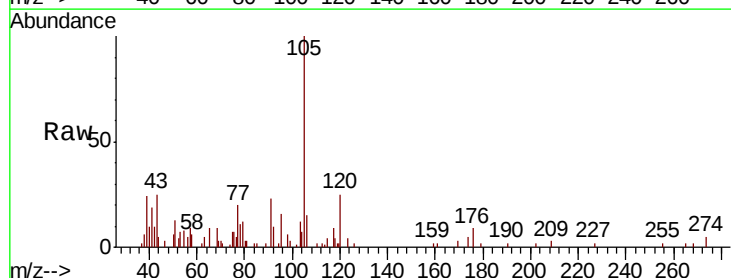
#70
n-Butylbenzene
Concen: 0.001 ppbv
RT: 18.51 min Scan# 4891
Delta R.T. -0.06 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

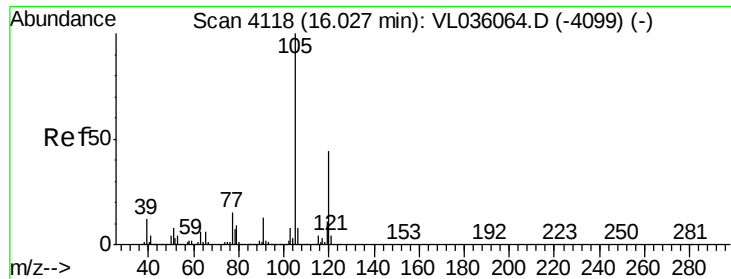
Tot Ion: 91 Resp: 386
Ion Ratio Lower Upper
91 100
92 0.0 43.3 64.9#
134 0.0 17.1 25.7#



#72
4-Ethyltoluene
Concen: 0.023 ppbv
RT: 15.82 min Scan# 4052
Delta R.T. -0.05 min
Lab File: VL036159.D
Acq: 11 Dec 2020 11:20

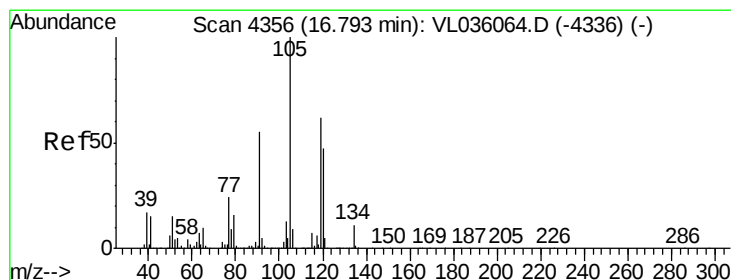
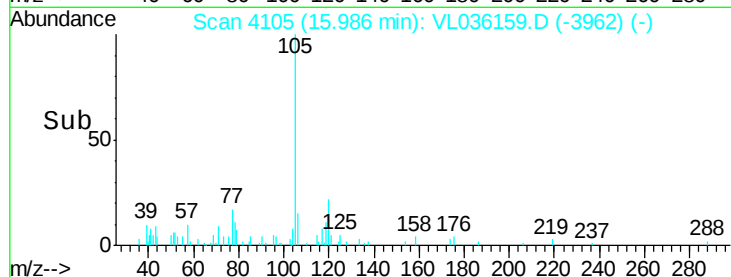
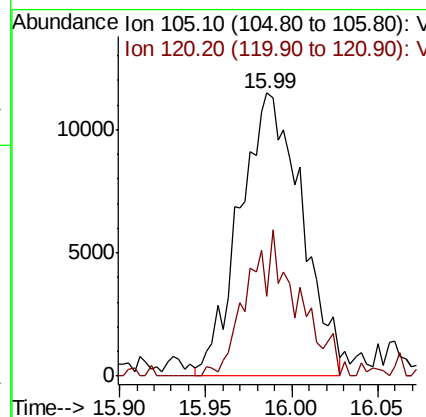
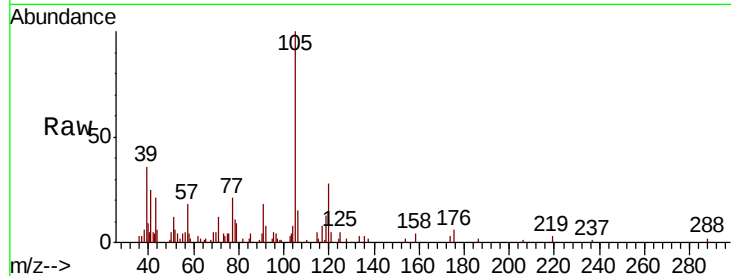
Tgt Ion: 105 Resp: 6364
Ion Ratio Lower Upper
105 100
120 0.0 23.6 35.4#
91 0.0 11.4 17.0#
77 0.0 12.1 18.1#





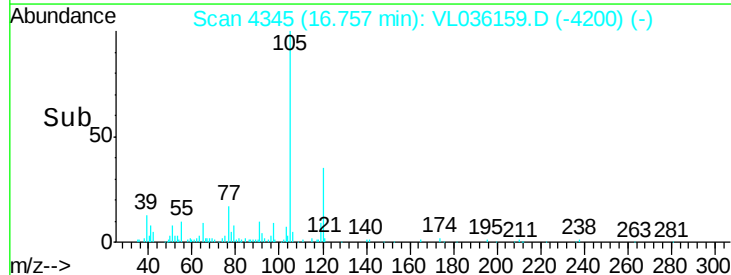
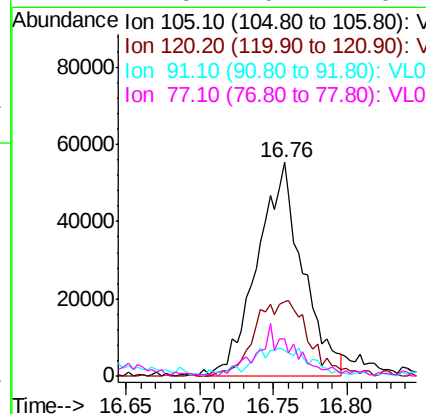
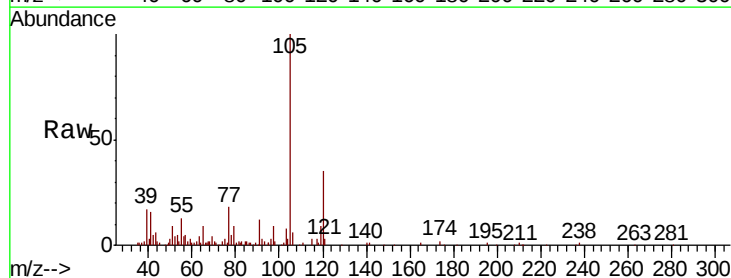
#73
 1,3,5-Trimethylbenzene
 Concen: 0.111 ppbv m
 RT: 15.99 min Scan# 4105
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

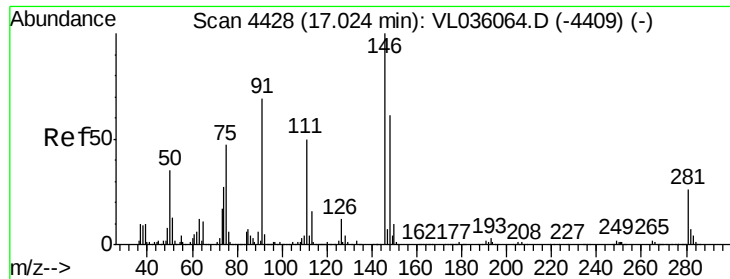
Tot Ion:105 Resp: 28686
 Ion Ratio Lower Upper
 105 100
 120 28.3 35.4 53.2#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.458 ppbv m
 RT: 16.76 min Scan# 4345
 Delta R.T. -0.04 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

Tgt Ion:105 Resp: 118923
 Ion Ratio Lower Upper
 105 100
 120 34.6 37.4 56.0#
 91 12.1 45.6 68.4#
 77 17.5 19.4 29.2#





#75

1,3-Dichlorobenzene

Concen: 0.002 ppbv

RT: 16.97 min Scan# 4410

Delta R.T. -0.06 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

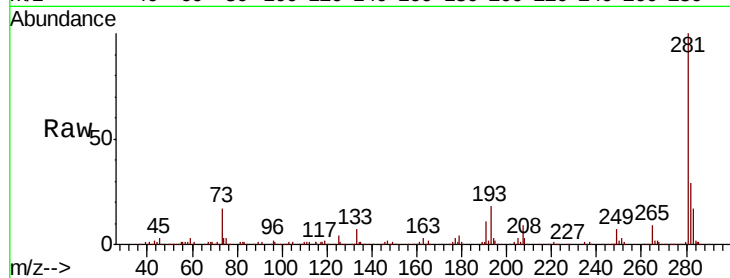
Tot Ion:146 Resp: 314

Ion Ratio Lower Upper

146 100

111 0.0 25.1 75.3#

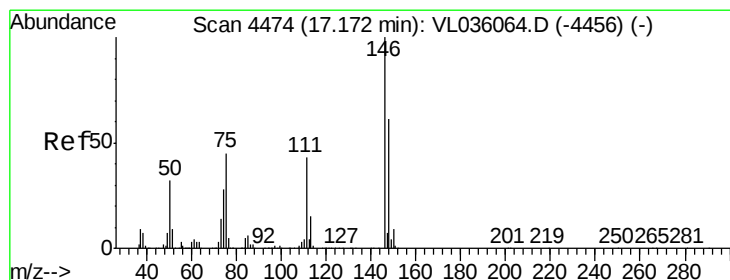
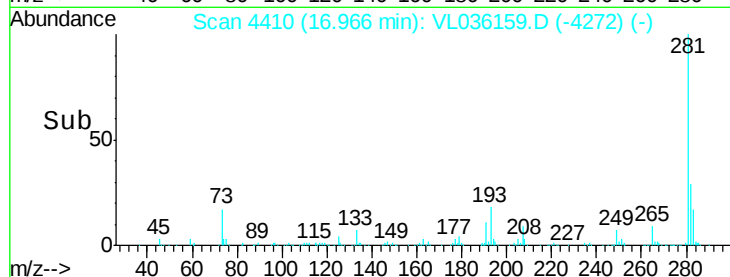
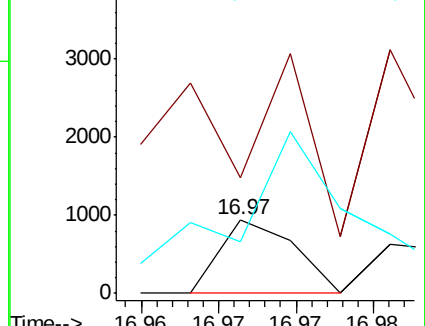
148 629.3 32.9 98.6#



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: 0.010 ppbv

RT: 17.12 min Scan# 4458

Delta R.T. -0.05 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

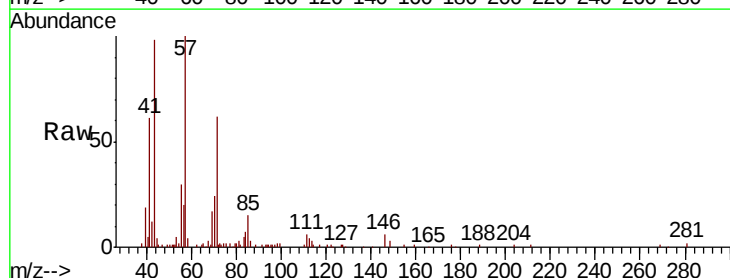
Tgt Ion:146 Resp: 1301

Ion Ratio Lower Upper

146 100

111 378.4 24.3 72.8#

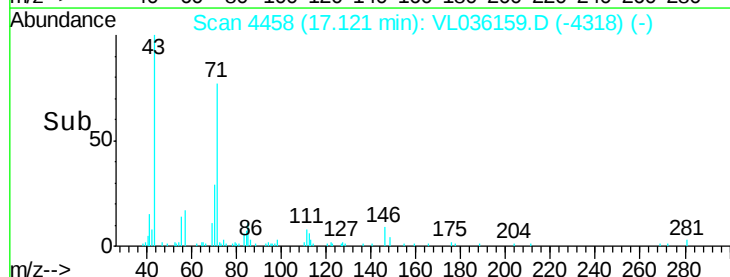
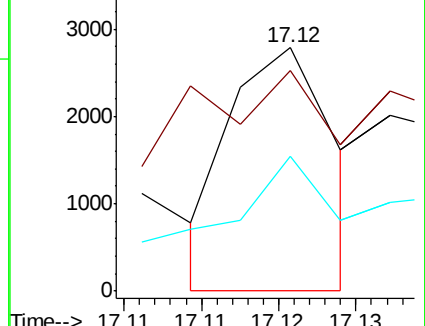
148 0.0 32.8 98.3#

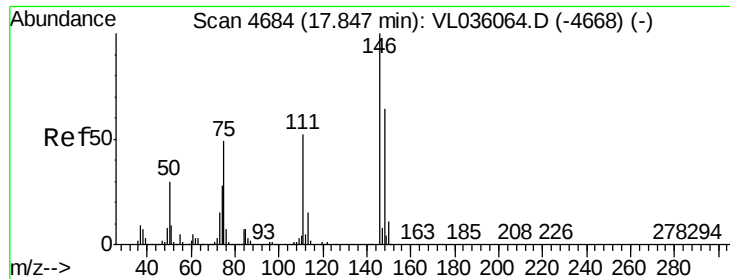


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.001 ppbv

RT: 17.79 min Scan# 4666

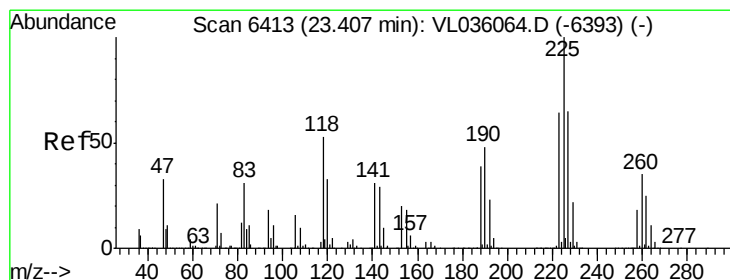
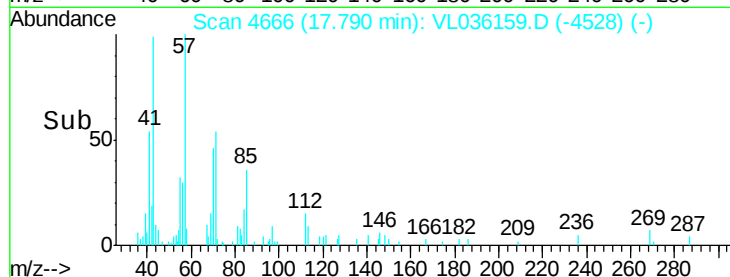
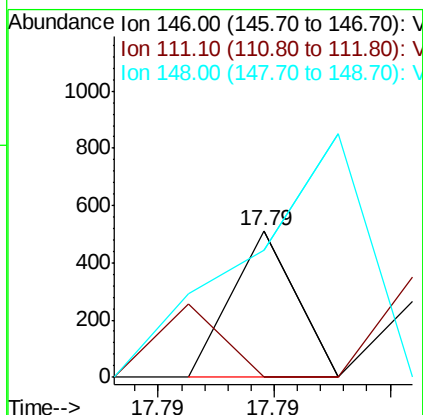
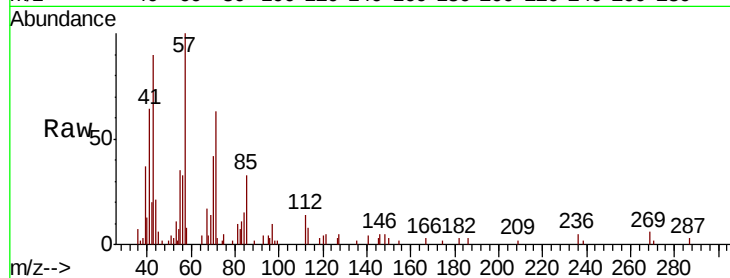
Delta R.T. -0.06 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Tot Ion:146 Resp: 99

Ion	Ratio	Lower	Upper
146	100		
111	298.0	26.1	78.2#
148	804.0	33.1	99.5#



#78

Hexachloro-1,3-Butadiene

Concen: 0.001 ppbv

RT: 23.36 min Scan# 6397

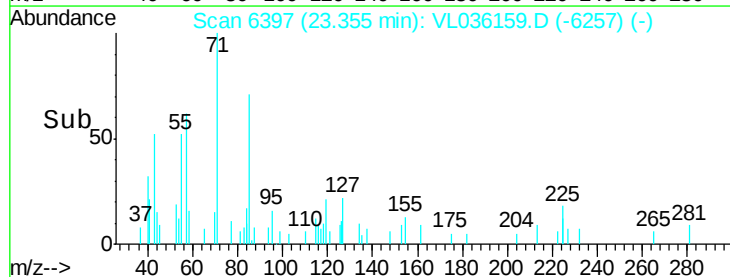
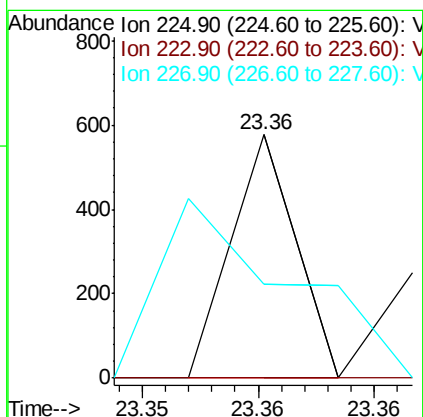
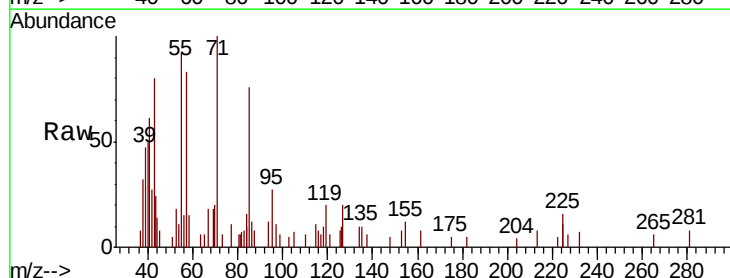
Delta R.T. -0.05 min

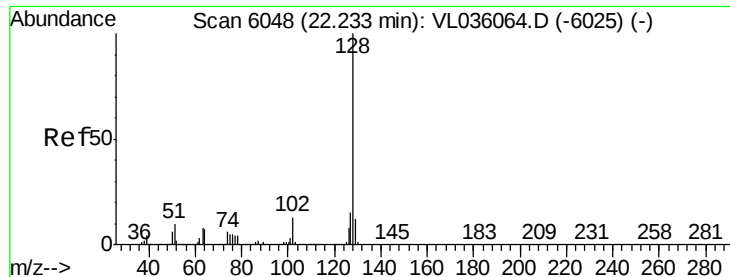
Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Tgt Ion:225 Resp: 111

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





#79

Naphthalene

Concen: 0.022 ppbv

RT: 22.17 min Scan# 6029

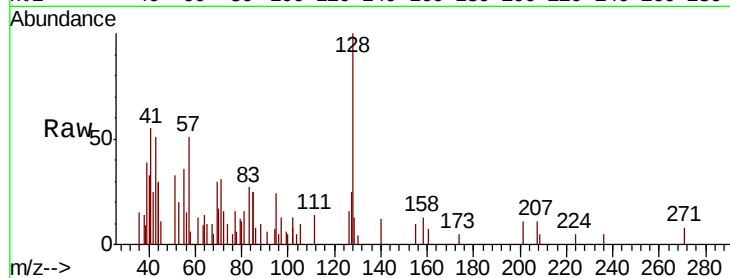
Delta R.T. -0.06 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Tot Ion:128 Resp: 2854

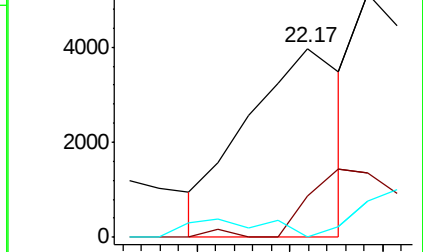
Ion	Ratio	Lower	Upper
128	100		
127	28.9	11.7	17.5#
129	0.0	9.3	13.9#



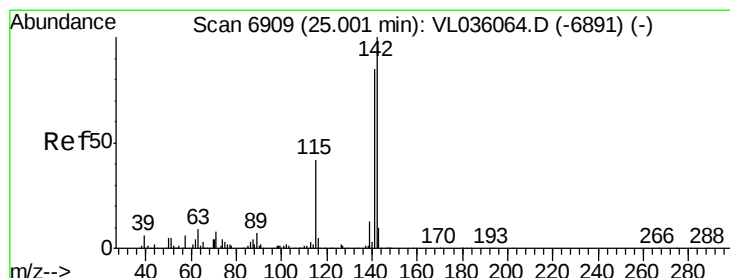
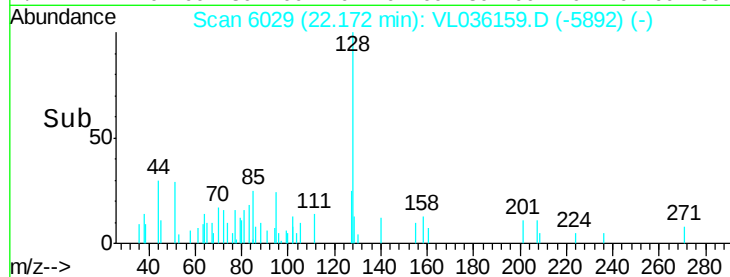
Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



Time-->



#80

Naphthalene, 2-methyl-

Concen: 0.004 ppbv

RT: 24.94 min Scan# 6891

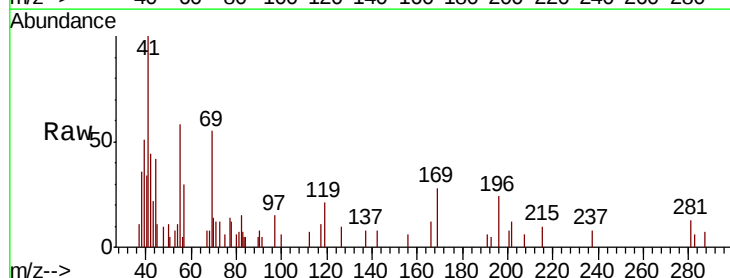
Delta R.T. -0.06 min

Lab File: VL036159.D

Acq: 11 Dec 2020 11:20

Tgt Ion:142 Resp: 125

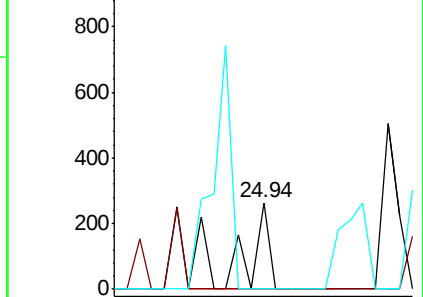
Ion	Ratio	Lower	Upper
142	100		
141	136.0	64.3	96.5#
115	201.6	33.9	50.9#



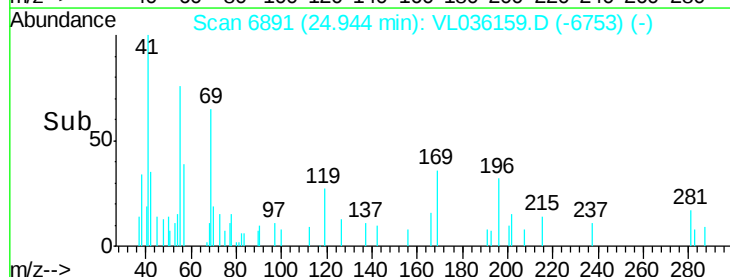
Abundance Ion 142.00 (141.70 to 142.70): V

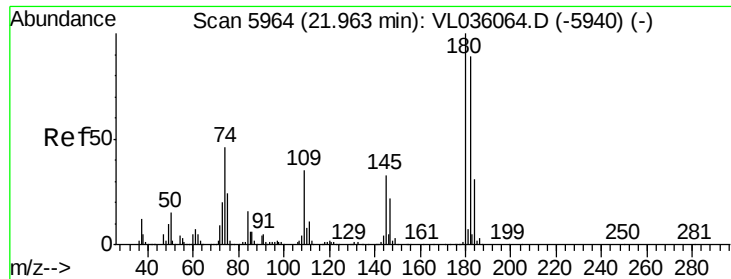
Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



Time-->





#81
 1,2,4-Trichlorobenzene
 Concen: 0.002 ppbv
 RT: 21.89 min Scan# 5942
 Delta R.T. -0.07 min
 Lab File: VL036159.D
 Acq: 11 Dec 2020 11:20

Tot Ion	Ratio	Lower	Upper
180	100		
182	396.2	0.0	0.0#
184	0.0	0.0	0.0

