

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070820\
 Data File : VL035172.D
 Acq On : 8 Jul 2020 5:09
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Quant Time: Jul 08 06:22:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 06:17:02 2020
 QLast Update : Wed Jul 08 06:17:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1232638	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2932416	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2680121	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2270438	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.14	85	25141	0.151	ppbv	91
3) Chlorodifluoromethane	2.94	51	16941	0.125	ppbv	91
4) Chloromethane	3.10	50	9229	0.122	ppbv #	76
5) Vinyl Chloride	3.21	62	6935	0.096	ppbv #	78
6) Bromomethane	3.43	94	3180	0.070	ppbv	96
7) Chloroethane	3.52	64	2421	0.088	ppbv #	84
8) Dichlorotetrafluoroethane	3.14	85	25141	0.141	ppbv	95
9) Propene	2.96	41	5926	0.112	ppbv #	63
11) Trichlorofluoromethane	3.92	101	27091	0.151	ppbv	93
13) Ethanol	3.58	45	2463	0.125	ppbv #	35
14) Bromoethene	3.71	108	3546	0.066	ppbv #	1
15) Acetone	3.83	43	28487	0.190	ppbv #	48
16) 1,3-Butadiene	3.28	39	3330	0.051	ppbv #	7
18) 1,1-Dichloroethene	4.26	96	4157	0.074	ppbv	86
20) Methylene Chloride	4.31	84	18632	0.306	ppbv #	75
21) Allyl Chloride	4.38	41	7085	0.080	ppbv #	41
22) trans-1,2-Dichloroethene	4.86	96	4028	0.076	ppbv #	80
23) Vinyl Acetate	5.06	43	10370	0.058	ppbv #	90
24) 1,1-Dichloroethane	4.99	63	11956	0.079	ppbv #	96
25) Ethyl Acetate	5.67	43	26758	0.100	ppbv #	92
27) Carbon Disulfide	4.52	76	19484	0.151	ppbv #	68
28) Methyl tert-Butyl Ether	5.03	73	14599	0.086	ppbv	99
29) Chloroform	5.73	83	12007	0.063	ppbv	97
30) Cyclohexane	7.12	84	2916	0.034	ppbv #	1
31) cis-1,2-Dichloroethene	5.53	61	8774	0.079	ppbv	95
32) 1,1,1-Trichloroethane	6.51	97	10975	0.062	ppbv #	22
34) 2-Butanone	5.24	43	18234	0.110	ppbv #	90
35) Carbon Tetrachloride	7.01	117	12997	0.074	ppbv	92
36) Benzene	6.88	78	13255	0.059	ppbv #	79
37) 1,2-Dichloroethane	6.29	62	14063	0.098	ppbv #	93
38) Trichloroethene	7.84	130	4352	0.049	ppbv #	31
39) 1,2-Dichloropropane	7.17	63	813511	9.290	ppbv #	24
42) Bromodichloromethane	7.80	83	12872	0.069	ppbv #	94
47) 1,1,2-Trichloroethane	9.48	97	5707	0.059	ppbv #	67
48) Dibromochloromethane	10.32	129	13226	0.091	ppbv	98
49) Bromoform	13.06	173	4995	0.041	ppbv #	27
54) 1,2-Dibromoethane	10.62	107	7014	0.049	ppbv	83
62) Isopropylbenzene	14.70	105	15036	0.038	ppbv #	46
63) 1,1,2,2-Tetrachloroethane	13.70	83	12371	0.057	ppbv #	33
64) n-propylbenzene	15.59	120	3811	0.037	ppbv #	1
67) sec-Butylbenzene	17.33	105	21164	0.043	ppbv #	59

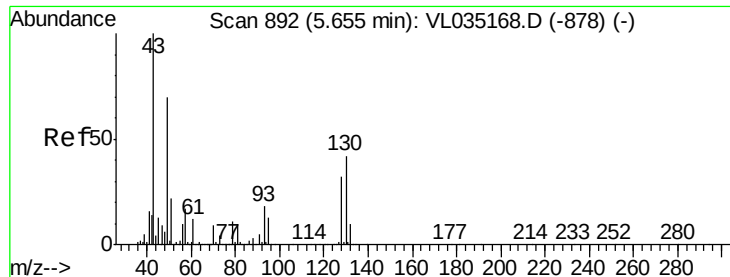
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070820\
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Quant Time: Jul 08 06:22:18 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08 06:17:02 2020
QLast Update : Wed Jul 08 06:17:02 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	15.87	105	10340	0.035	ppbv #	67
73) 1,3,5-Trimethylbenzene	16.03	105	10545	0.037	ppbv #	78
75) 1,3-Dichlorobenzene	17.03	146	10801	0.057	ppbv #	1
76) 1,4-Dichlorobenzene	17.17	146	7132	0.039	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.41	225	7290	0.048	ppbv #	1

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

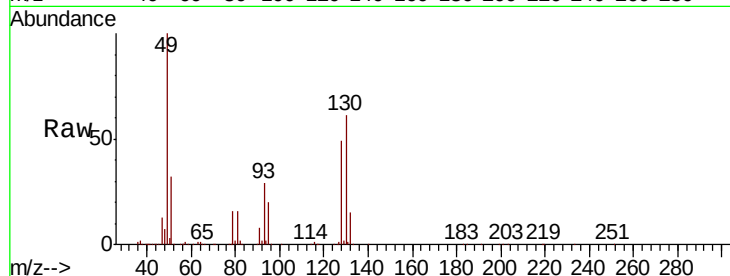
Tot Ion: 49 Resp: 1232638

Ion Ratio Lower Upper

49 100

128 48.5 23.8 71.4

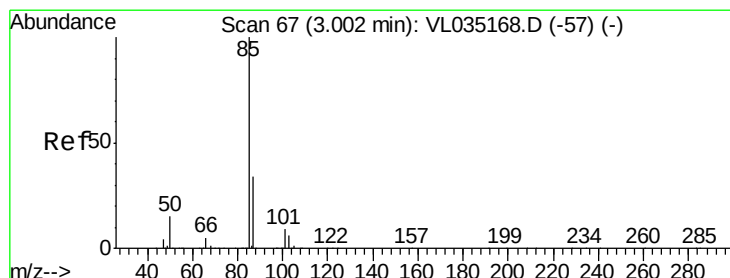
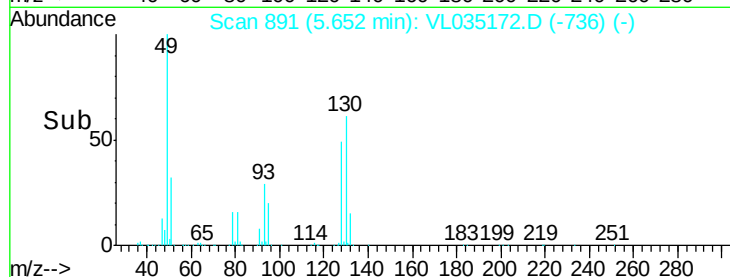
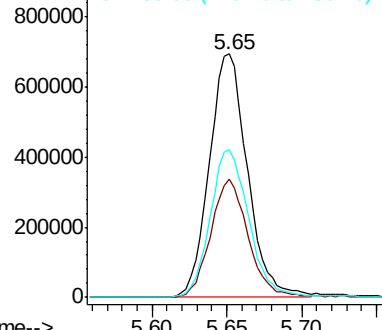
130 62.4 29.9 89.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.151 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.14 min

Lab File: VL035172.D

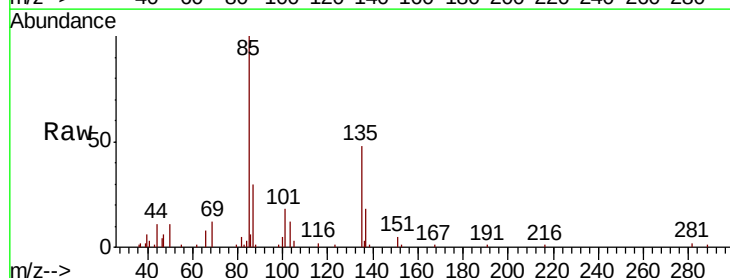
Acq: 8 Jul 2020 5:09

Tgt Ion: 85 Resp: 25141

Ion Ratio Lower Upper

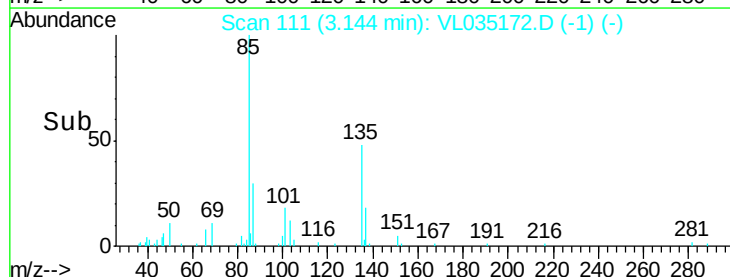
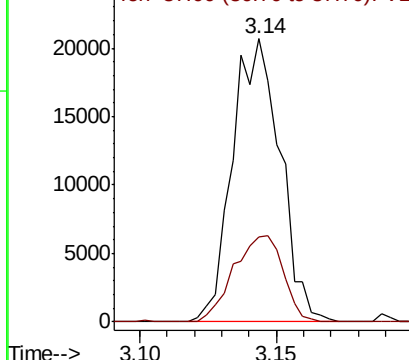
85 100

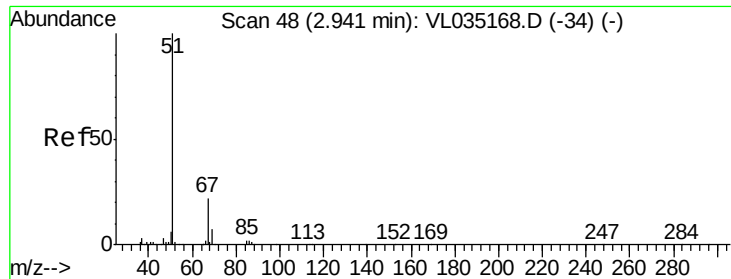
87 28.4 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

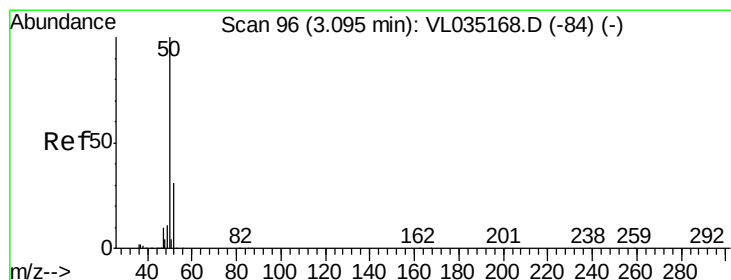
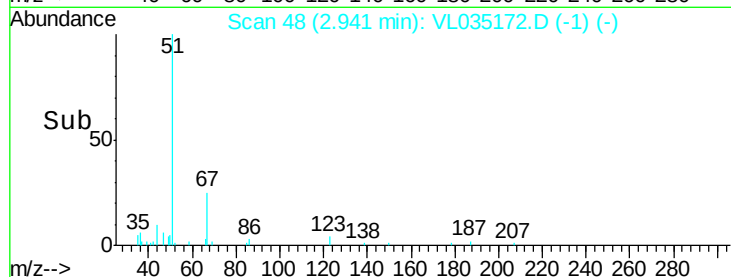
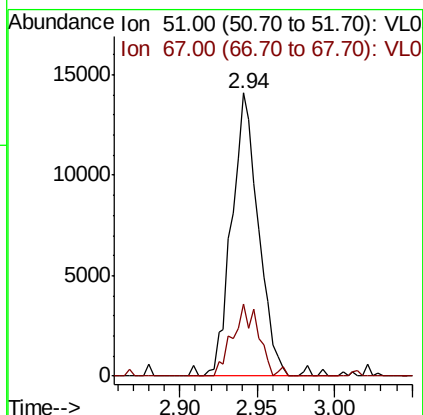
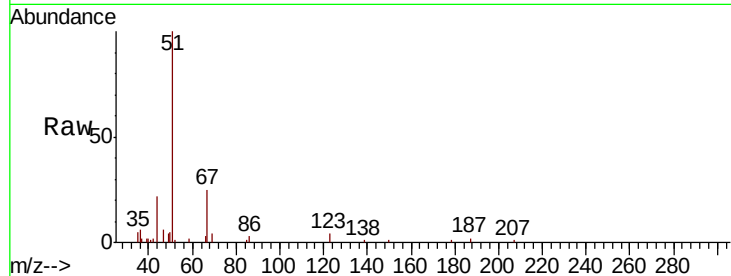




#3
 Chlorodifluoromethane
 Concen: 0.125 ppbv
 RT: 2.94 min Scan# 48
 Delta R.T. 0.00 min
 Lab File: VL035172.D
 Acq: 8 Jul 2020 5:09

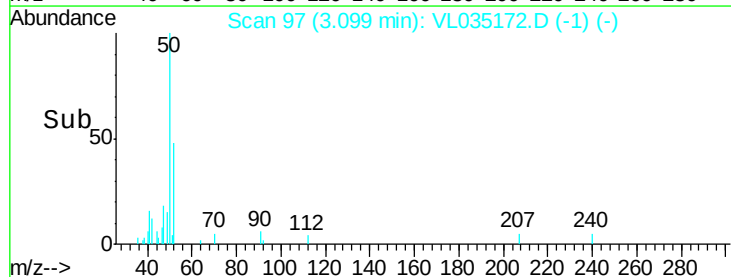
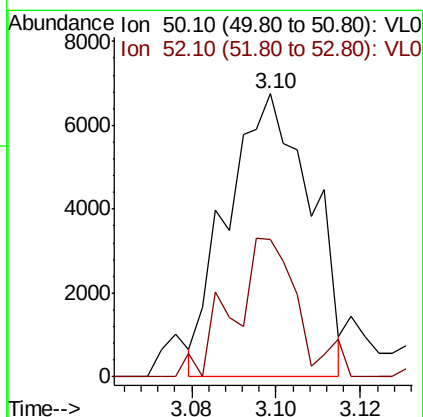
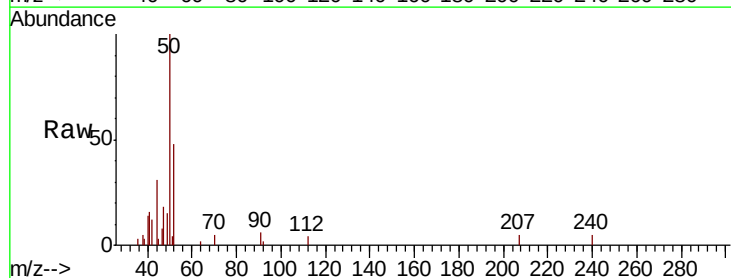
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

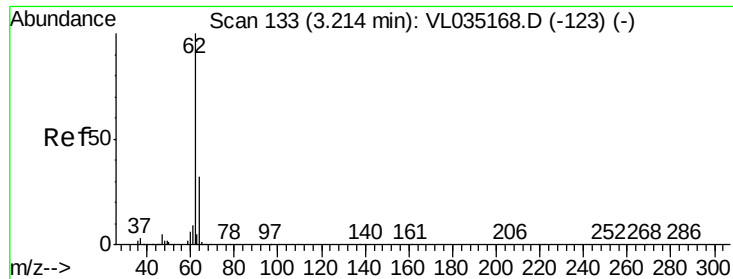
Tot Ion: 51 Resp: 16941
 Ion Ratio Lower Upper
 51 100
 67 24.8 16.6 24.8



#4
 Chloromethane
 Concen: 0.122 ppbv
 RT: 3.10 min Scan# 97
 Delta R.T. 0.00 min
 Lab File: VL035172.D
 Acq: 8 Jul 2020 5:09

Tgt Ion: 50 Resp: 9229
 Ion Ratio Lower Upper
 50 100
 52 44.4 25.0 37.6#





#5

Vinyl Chloride

Concen: 0.096 ppbv

RT: 3.21 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

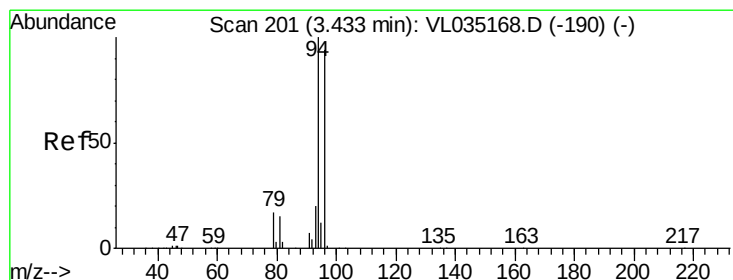
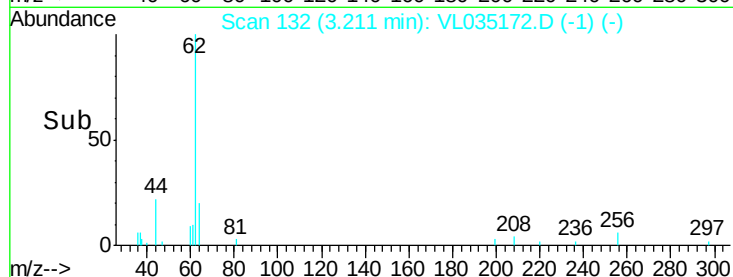
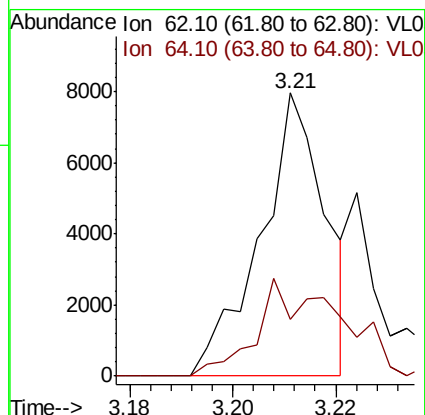
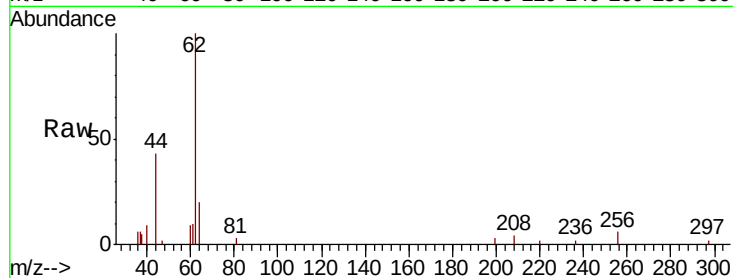
VSTDIC0.1

Tot Ion: 62 Resp: 6935

Ion Ratio Lower Upper

62 100

64 19.9 25.9 38.9#



#6

Bromomethane

Concen: 0.070 ppbv

RT: 3.43 min Scan# 200

Delta R.T. -0.00 min

Lab File: VL035172.D

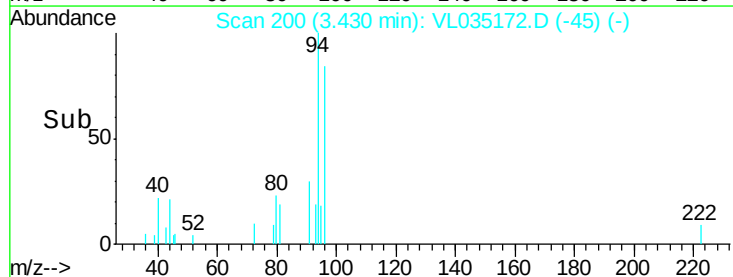
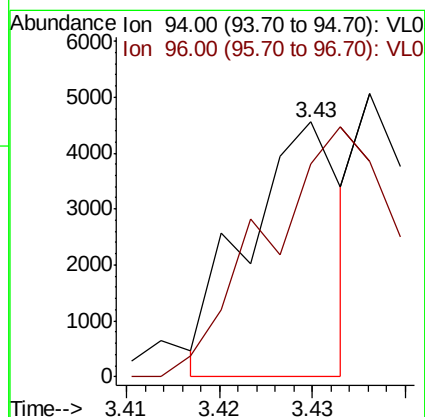
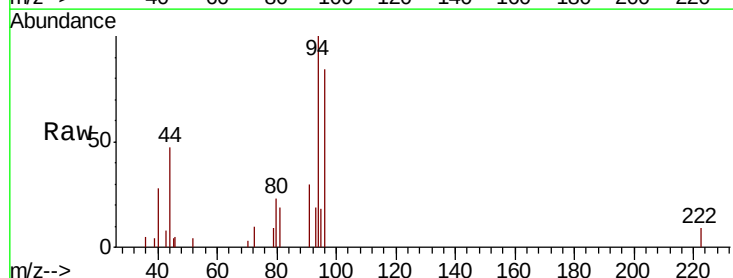
Acq: 8 Jul 2020 5:09

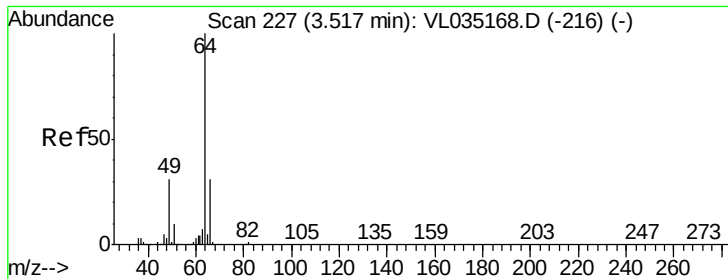
Tgt Ion: 94 Resp: 3180

Ion Ratio Lower Upper

94 100

96 89.3 74.8 112.2





#7

Chloroethane

Concen: 0.088 ppbv

RT: 3.52 min Scan# 229

Delta R.T. 0.01 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

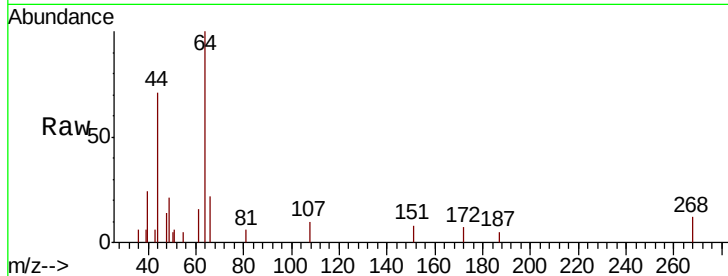
VSTDIC0.1

Tot Ion: 64 Resp: 2421

Ion Ratio Lower Upper

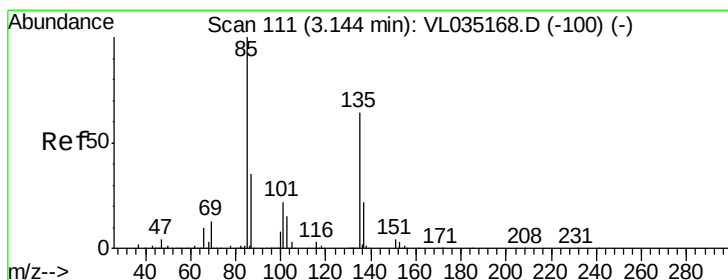
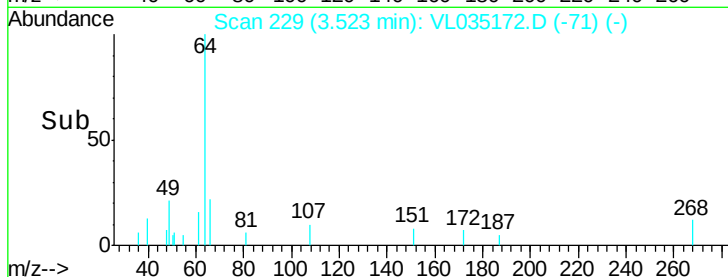
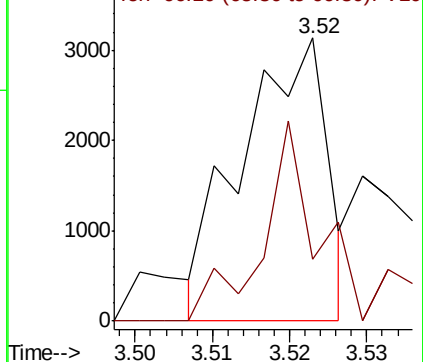
64 100

66 22.0 24.6 36.8#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.141 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL035172.D

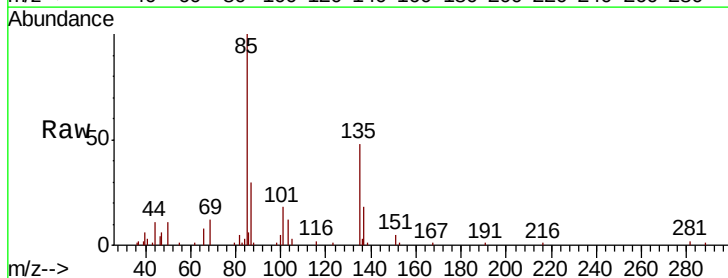
Acq: 8 Jul 2020 5:09

Tgt Ion: 85 Resp: 25141

Ion Ratio Lower Upper

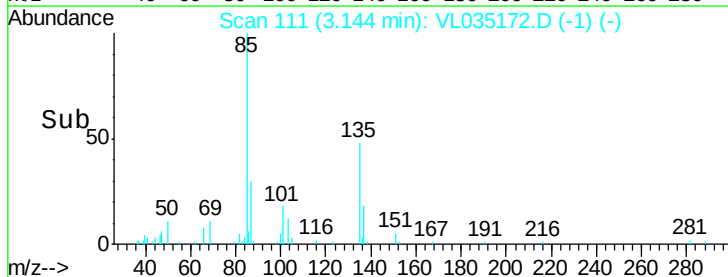
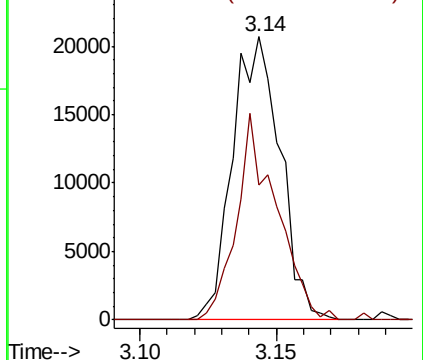
85 100

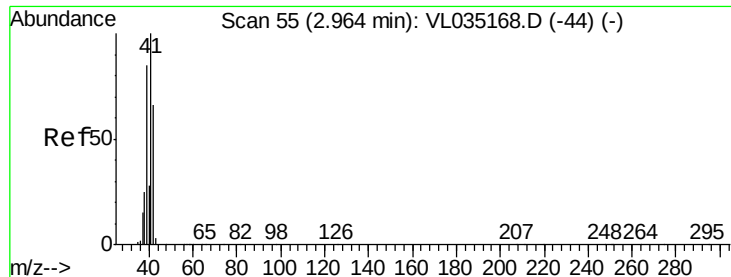
135 60.9 52.1 78.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.112 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

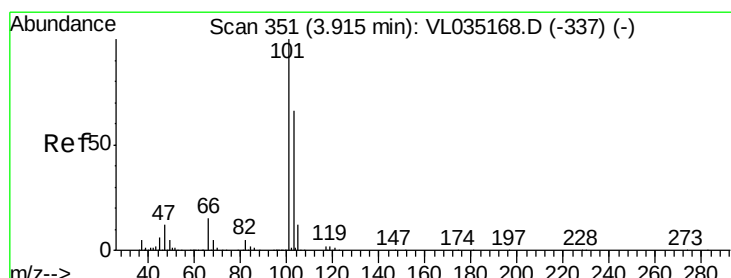
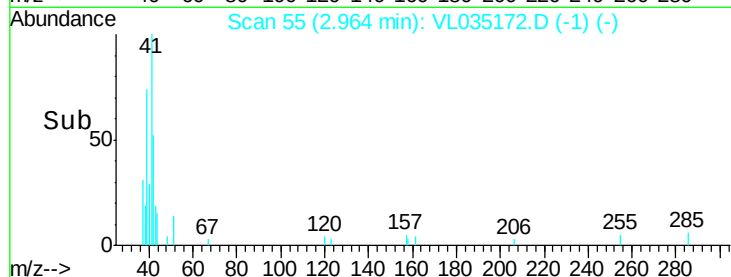
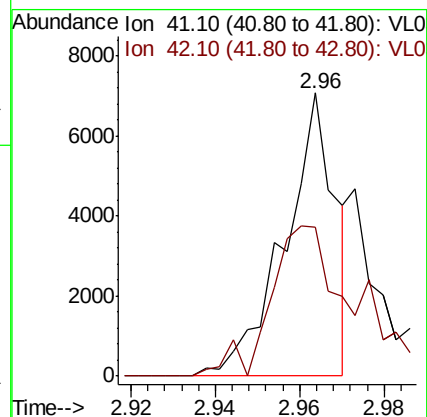
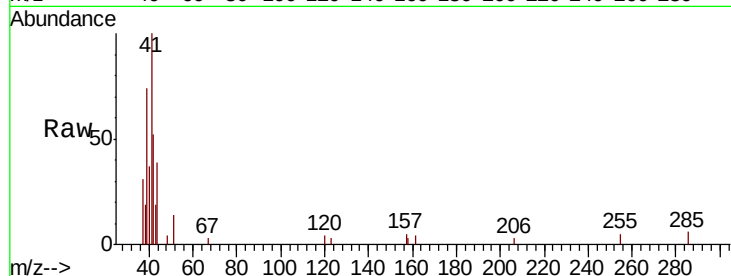
VSTDIC0.1

Tot Ion: 41 Resp: 5926

Ion Ratio Lower Upper

41 100

42 98.3 54.6 81.8#



#11

Trichlorofluoromethane

Concen: 0.151 ppbv

RT: 3.92 min Scan# 352

Delta R.T. 0.00 min

Lab File: VL035172.D

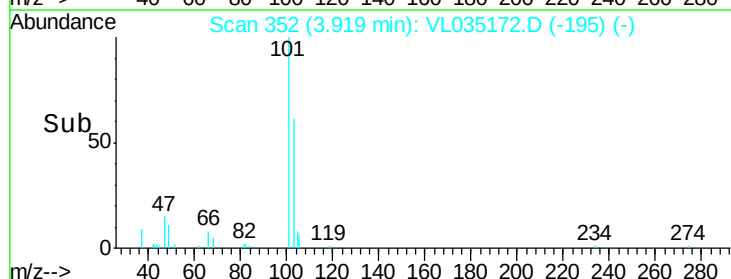
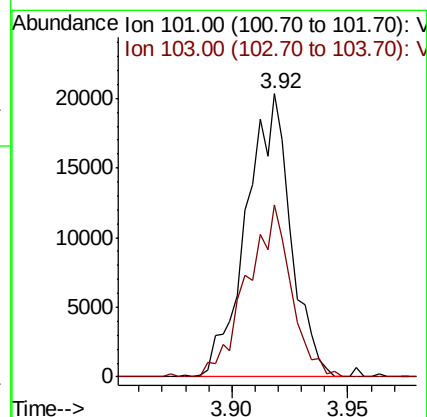
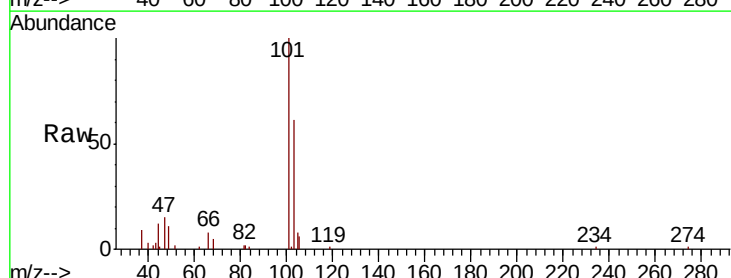
Acq: 8 Jul 2020 5:09

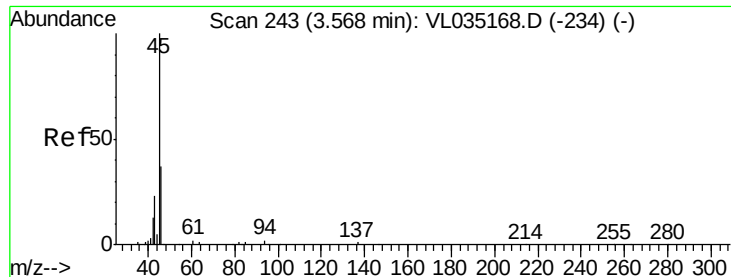
Tgt Ion: 101 Resp: 27091

Ion Ratio Lower Upper

101 100

103 60.8 53.1 79.7





#13

Ethanol

Concen: 0.125 ppbv

RT: 3.58 min Scan# 247

Delta R.T. 0.01 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

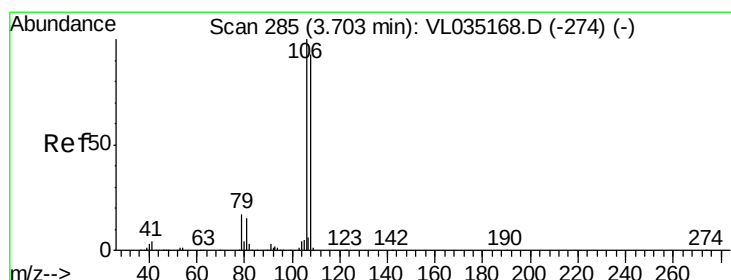
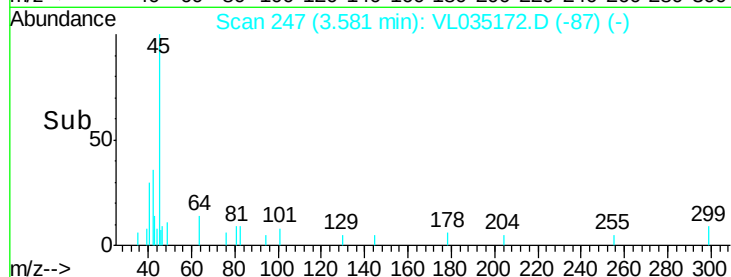
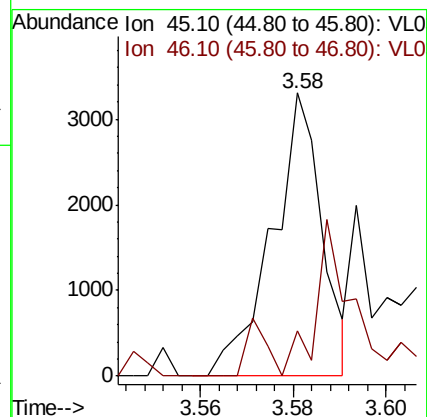
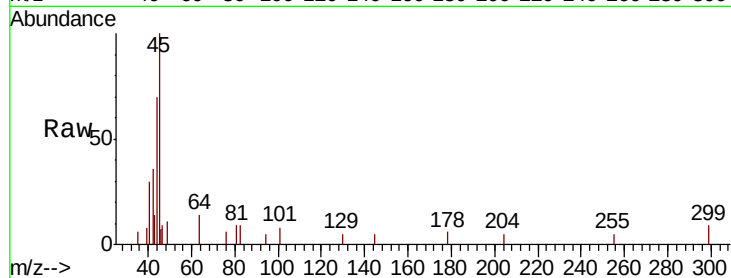
VSTDIC0.1

Tot Ion: 45 Resp: 2463

Ion Ratio Lower Upper

45 100

46 0.0 16.2 65.0#



#14

Bromoethene

Concen: 0.066 ppbv

RT: 3.71 min Scan# 287

Delta R.T. 0.01 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

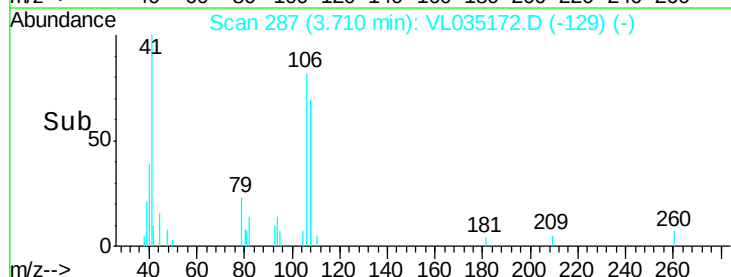
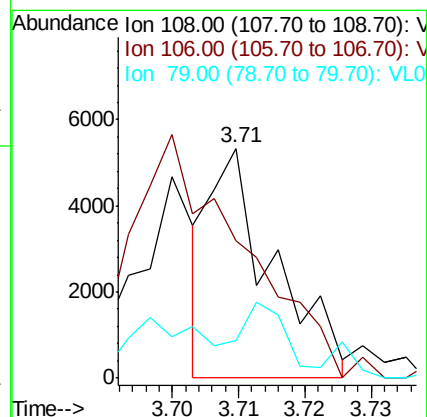
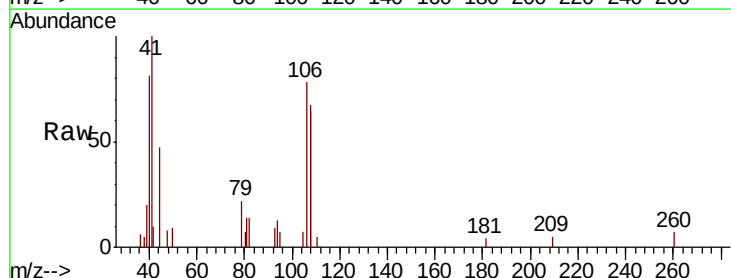
Tgt Ion: 108 Resp: 3546

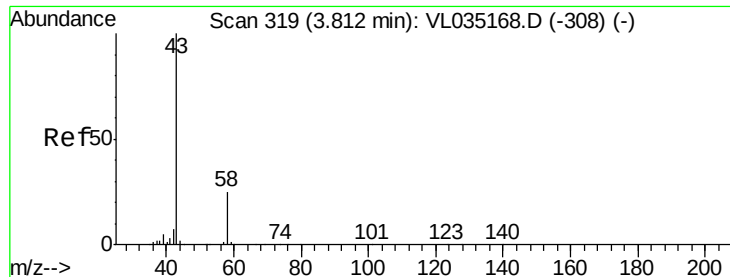
Ion Ratio Lower Upper

108 100

106 0.0 86.2 129.2#

79 69.1 15.0 22.6#





#15

Acetone

Concen: 0.190 ppbv

RT: 3.83 min Scan# 326

Delta R.T. 0.02 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

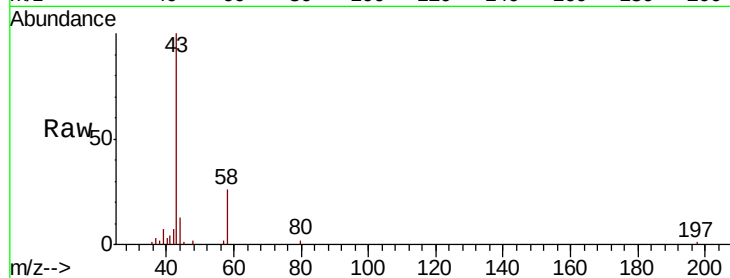
VSTDIC0.1

Tot Ion: 43 Resp: 28487

Ion Ratio Lower Upper

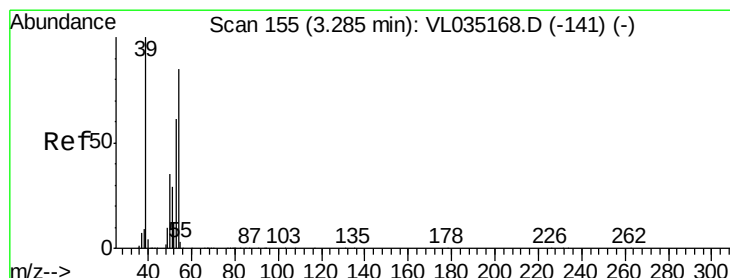
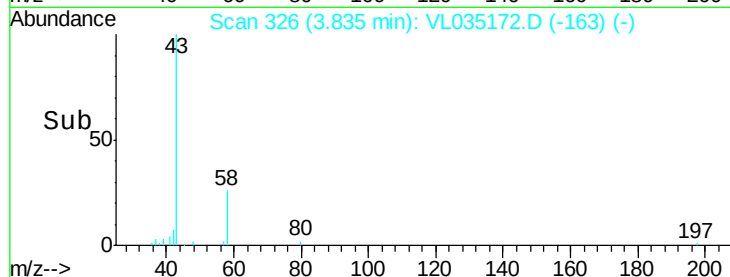
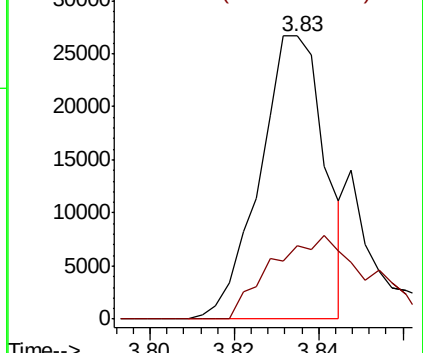
43 100

58 0.0 21.3 31.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.051 ppbv

RT: 3.28 min Scan# 154

Delta R.T. -0.00 min

Lab File: VL035172.D

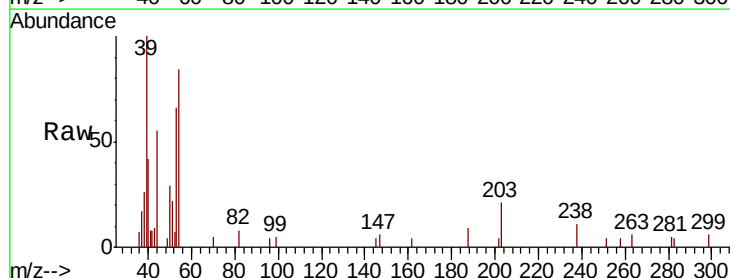
Acq: 8 Jul 2020 5:09

Tgt Ion: 39 Resp: 3330

Ion Ratio Lower Upper

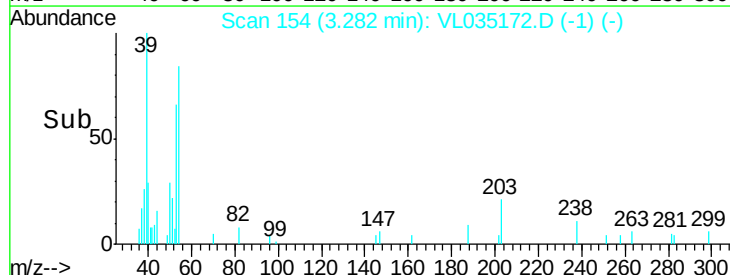
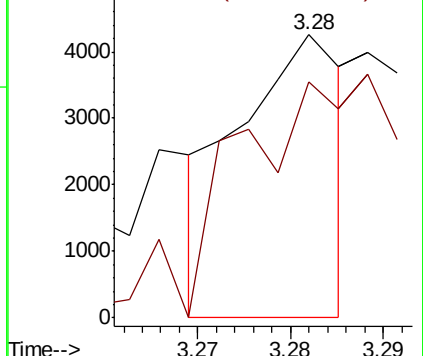
39 100

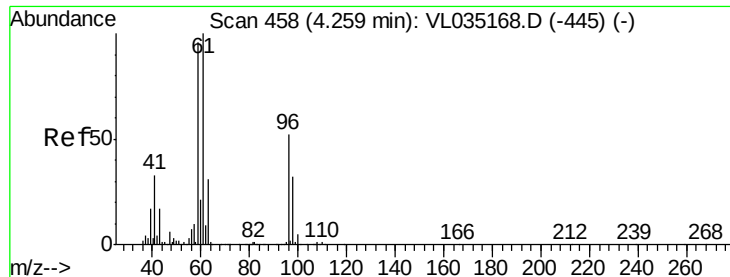
54 0.0 67.2 100.8#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#18

1,1-Dichloroethene

Concen: 0.074 ppbv

RT: 4.26 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

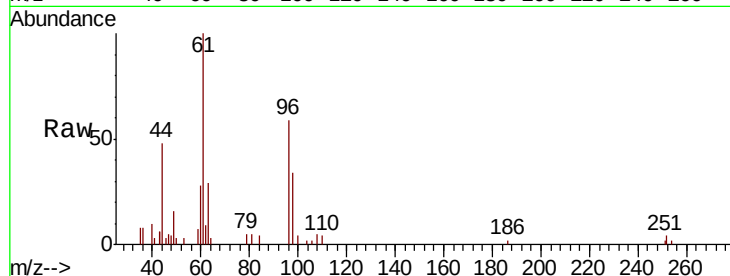
Tot Ion: 96 Resp: 4157

Ion Ratio Lower Upper

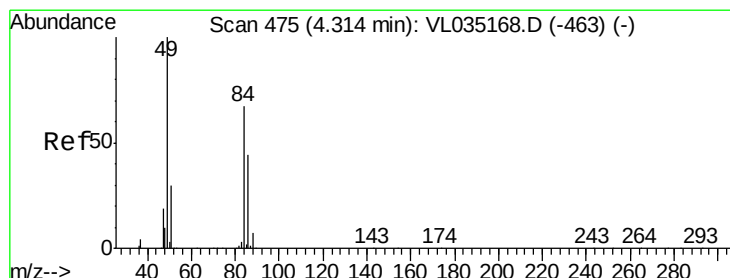
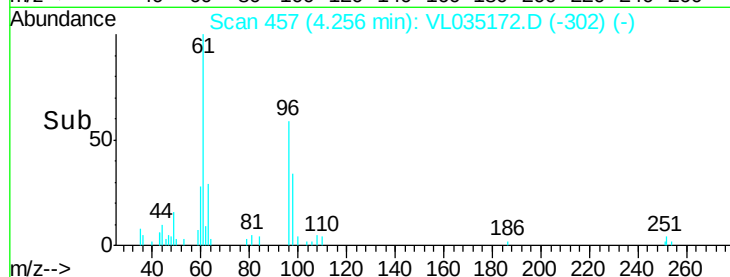
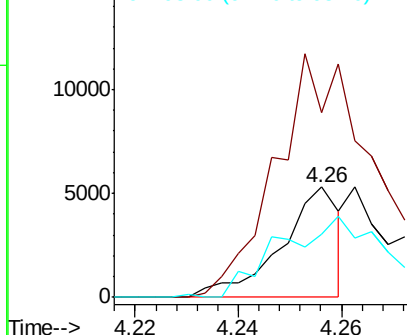
96 100

61 168.3 152.9 229.3

98 54.3 48.7 73.1



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



#20

Methylene Chloride

Concen: 0.306 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Tgt Ion: 84 Resp: 18632

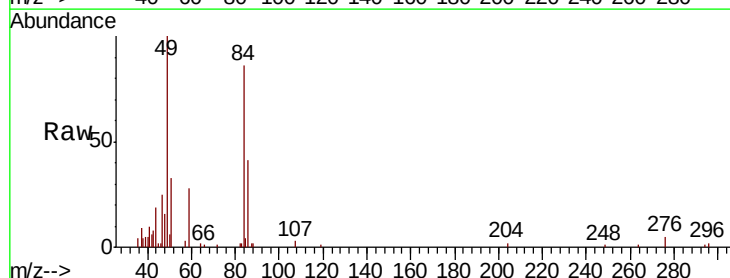
Ion Ratio Lower Upper

84 100

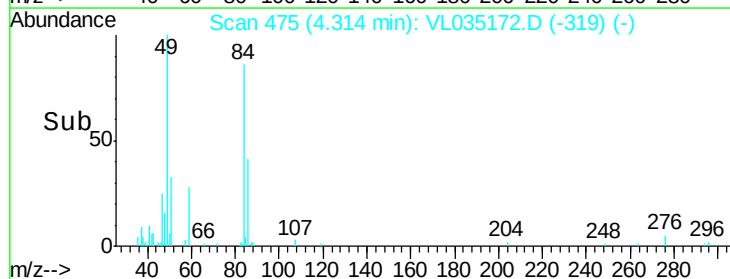
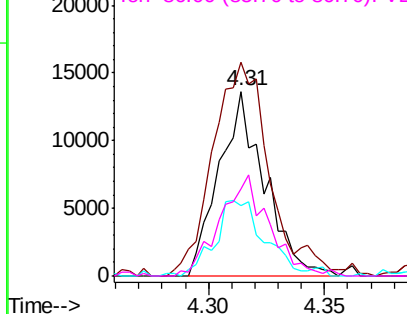
49 112.2 119.4 179.0#

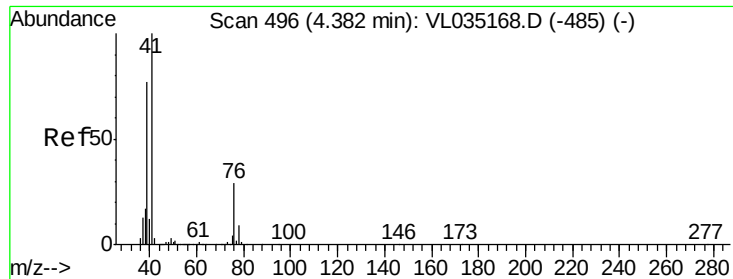
51 38.3 36.6 55.0

86 46.1 52.5 78.7#



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

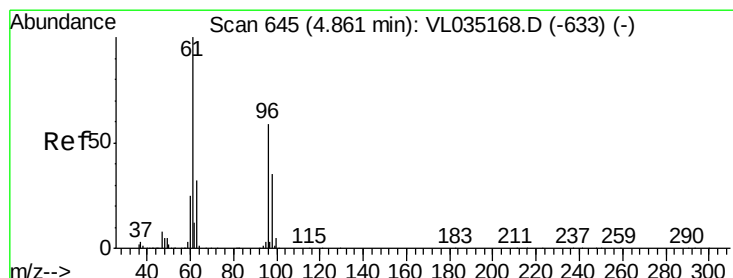
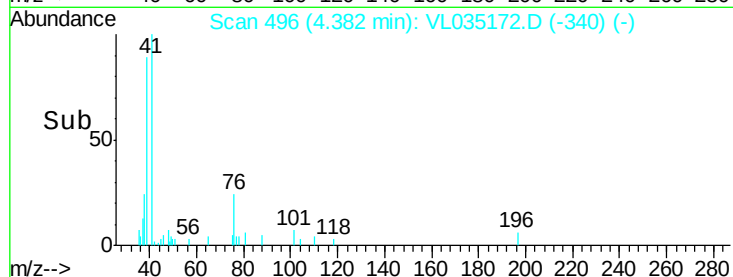
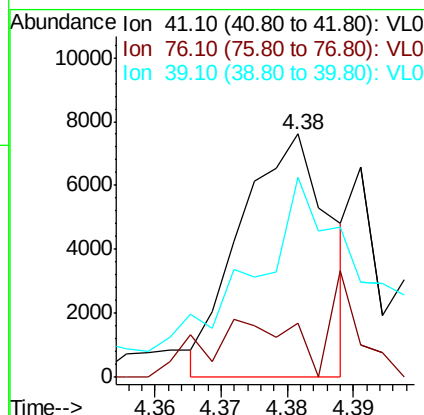
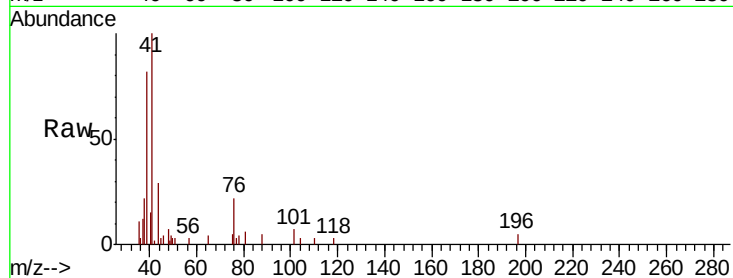




#21
Allvl Chloride
Concen: 0.080 ppbv
RT: 4.38 min Scan# 496
Delta R.T. -0.00 min
Lab File: VL035172.D
Acq: 8 Jul 2020 5:09

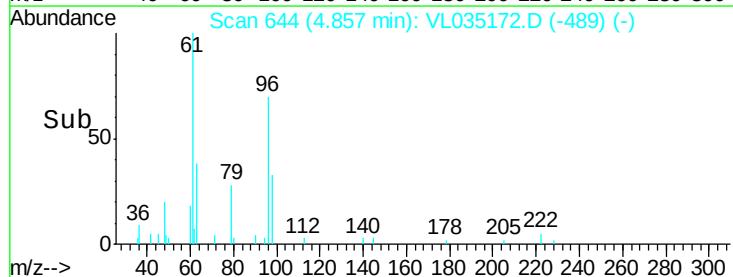
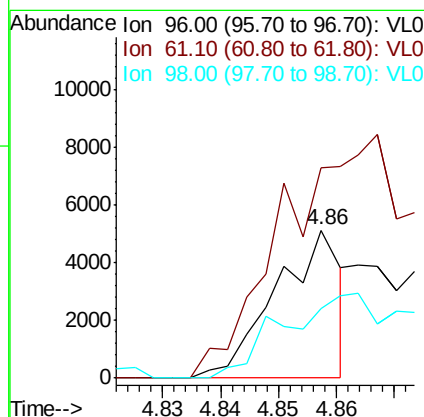
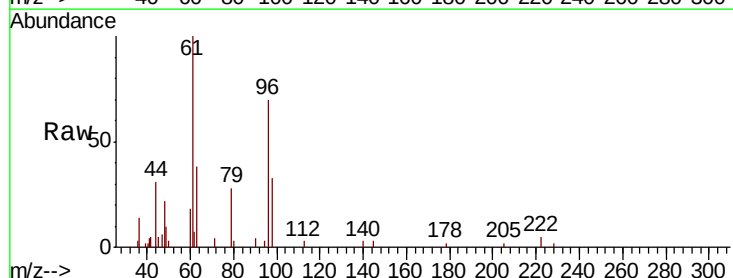
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

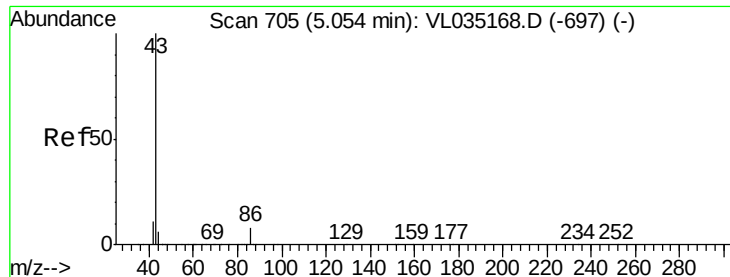
Tot Ion: 41 Resp: 7085
Ion Ratio Lower Upper
41 100
76 0.0 23.5 35.3#
39 132.3 63.4 95.0#



#22
trans-1,2-Dichloroethene
Concen: 0.076 ppbv
RT: 4.86 min Scan# 644
Delta R.T. -0.00 min
Lab File: VL035172.D
Acq: 8 Jul 2020 5:09

Tgt Ion: 96 Resp: 4028
Ion Ratio Lower Upper
96 100
61 142.2 136.5 204.7
98 46.7 47.5 71.3#





#23

Vinyl Acetate

Concen: 0.058 ppbv

RT: 5.06 min Scan# 706

Delta R.T. 0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 43 Resp: 10370

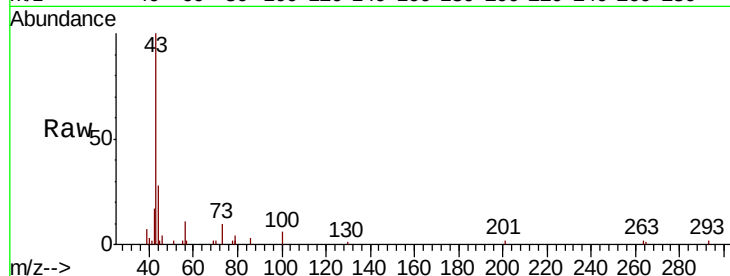
Ion Ratio Lower Upper

43 100

86 1.7 6.2 9.2#

42 14.8 9.1 13.7#

44 4.8 4.6 6.8

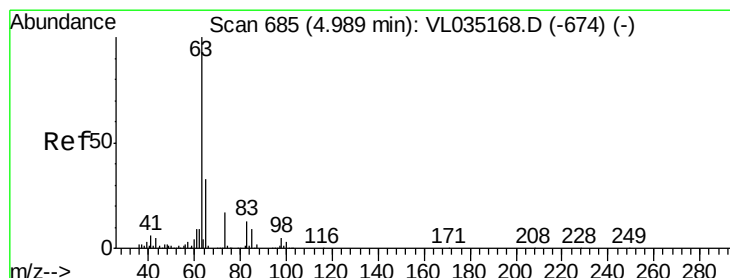
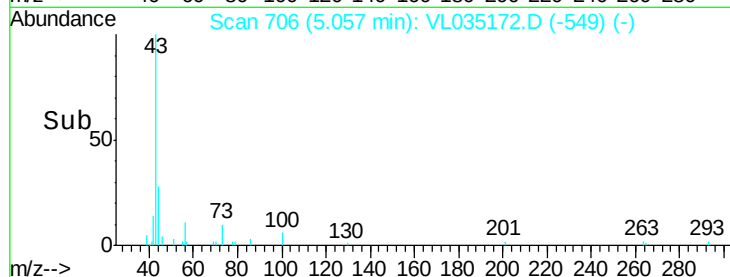
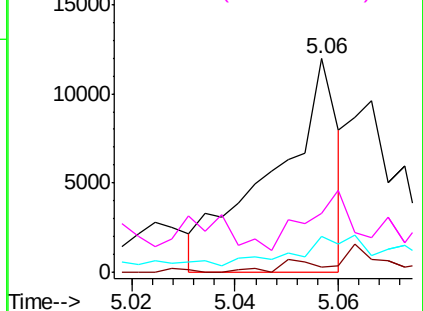


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.079 ppbv

RT: 4.99 min Scan# 684

Delta R.T. -0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

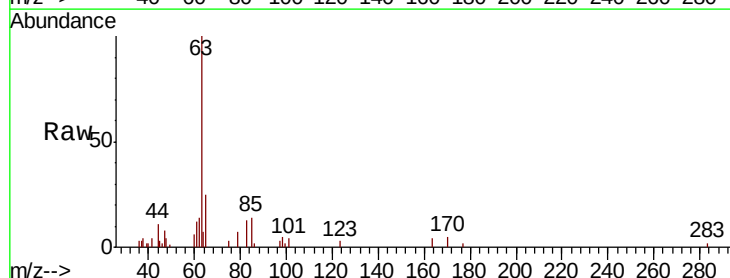
Tgt Ion: 63 Resp: 11956

Ion Ratio Lower Upper

63 100

98 5.1 2.4 7.1

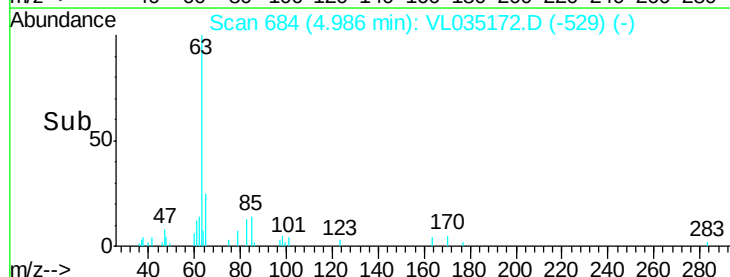
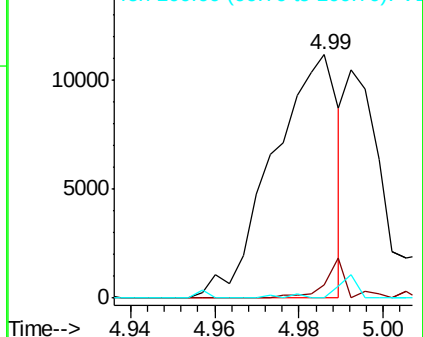
100 0.0 1.4 4.0#

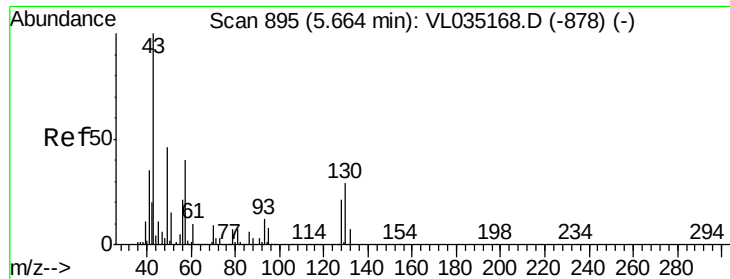


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

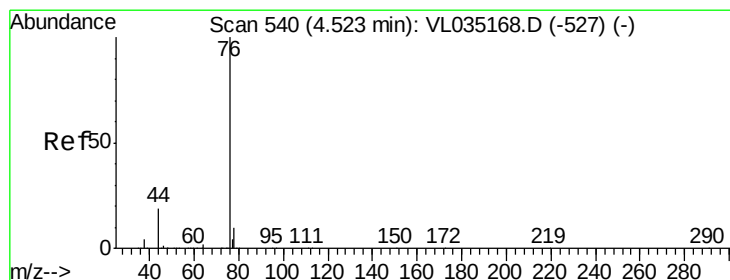
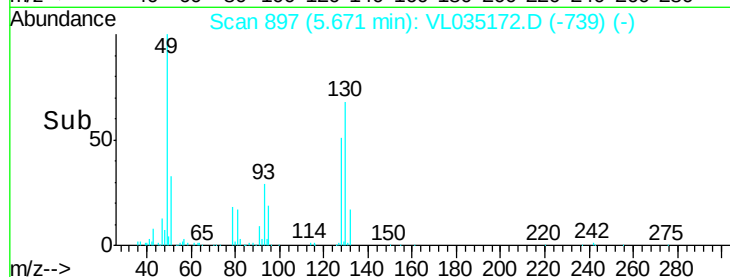
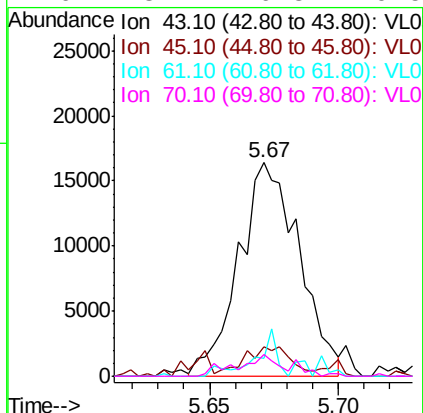
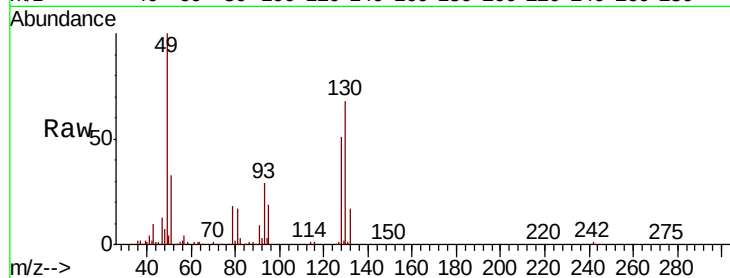




#25
Ethyl Acetate
Concen: 0.100 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.01 min
Lab File: VL035172.D
Acq: 8 Jul 2020 5:09

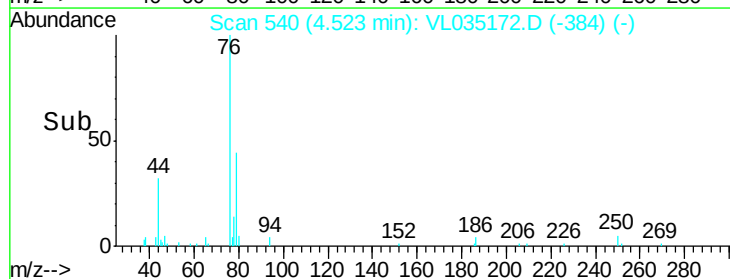
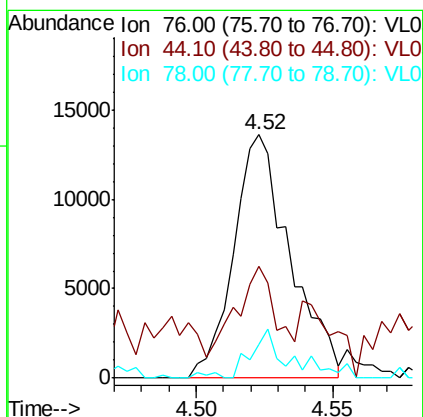
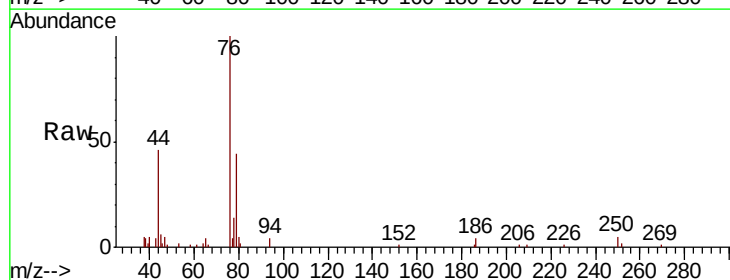
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

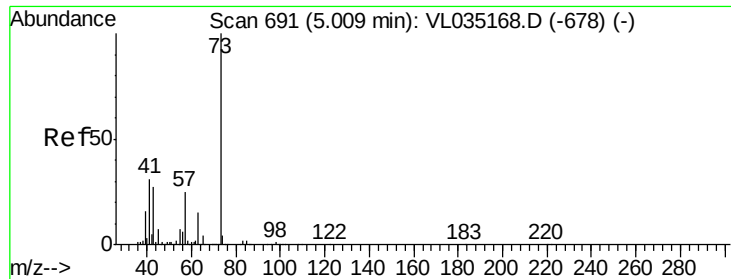
Tot Ion:	43	Resp:	26758
Ion	Ratio	Lower	Upper
43	100		
45	17.4	8.5	12.7#
61	11.0	8.1	12.1
70	8.4	6.3	9.5



#27
Carbon Disulfide
Concen: 0.151 ppbv
RT: 4.52 min Scan# 540
Delta R.T. -0.00 min
Lab File: VL035172.D
Acq: 8 Jul 2020 5:09

Tgt Ion:	76	Resp:	19484
Ion	Ratio	Lower	Upper
76	100		
44	37.2	14.9	22.3#
78	14.6	7.5	11.3#

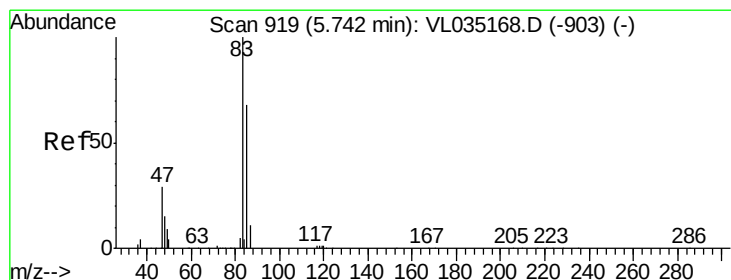
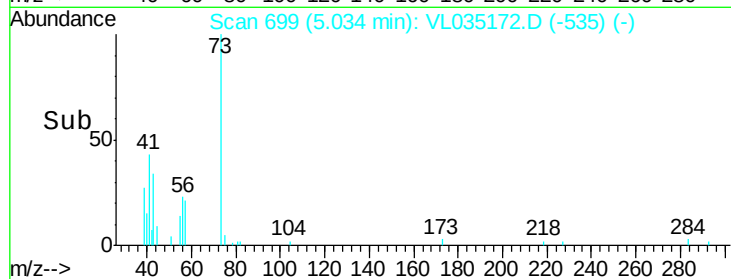
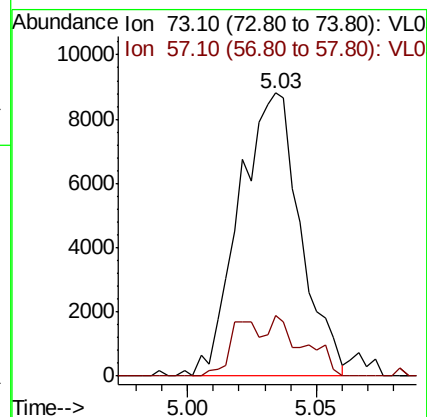
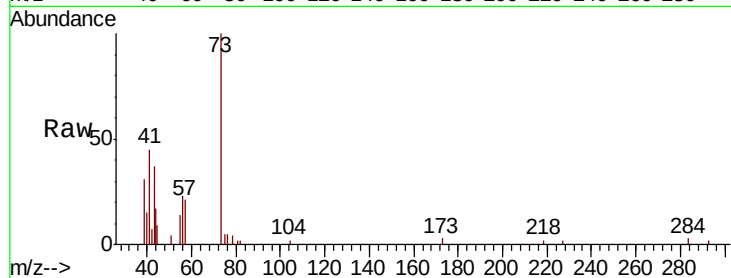




#28
Methyl tert-Butyl Ether
Concen: 0.086 ppbv
RT: 5.03 min Scan# 699
Delta R.T. 0.03 min
Lab File: VL035172.D
Acq: 8 Jul 2020 5:09

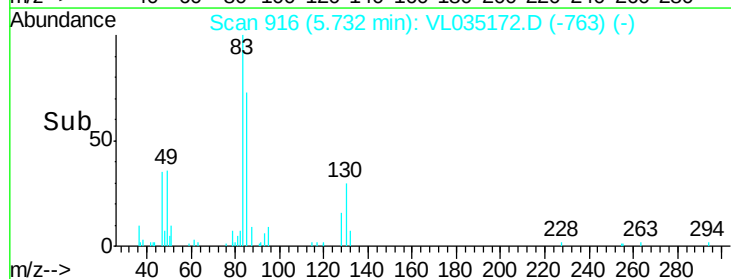
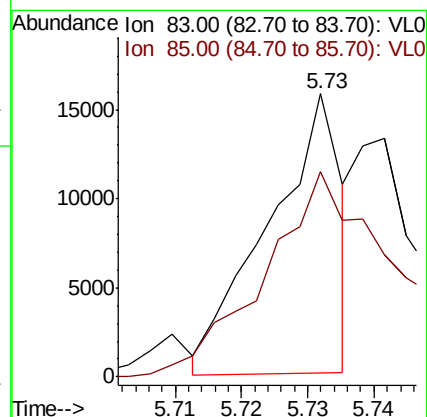
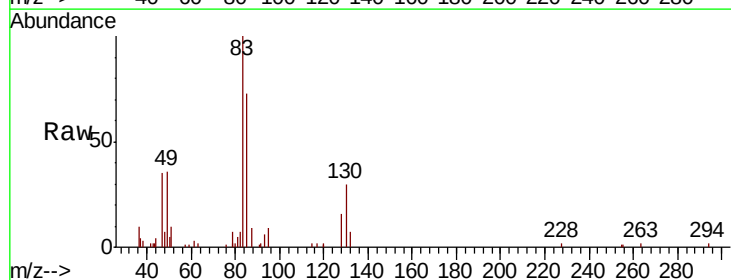
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

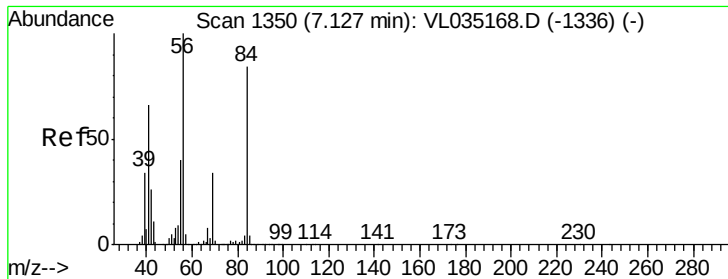
Tot Ion: 73 Resp: 14599
Ion Ratio Lower Upper
73 100
57 21.9 18.1 27.1



#29
Chloroform
Concen: 0.063 ppbv
RT: 5.73 min Scan# 916
Delta R.T. -0.01 min
Lab File: VL035172.D
Acq: 8 Jul 2020 5:09

Tgt Ion: 83 Resp: 12007
Ion Ratio Lower Upper
83 100
85 70.2 54.3 81.5

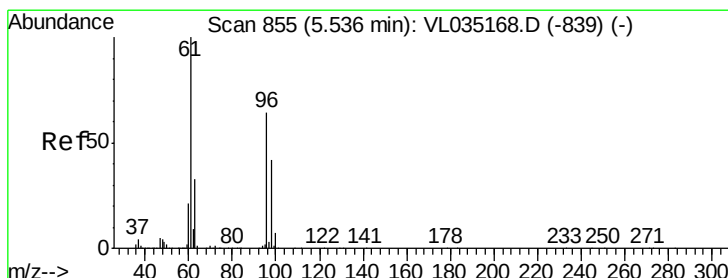
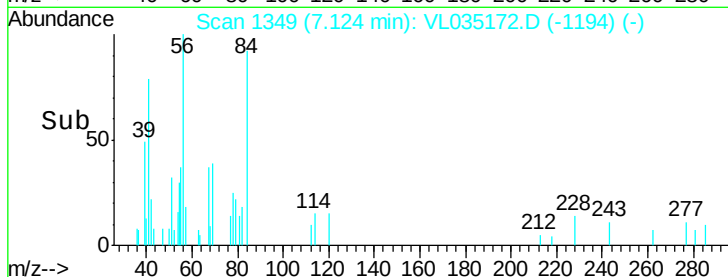
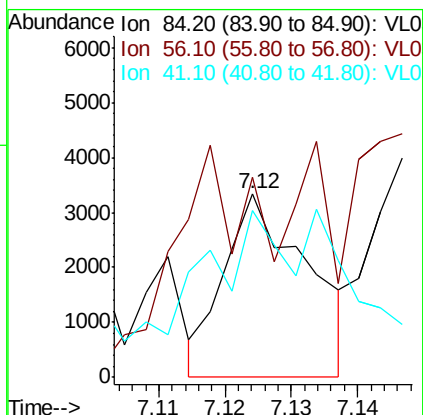
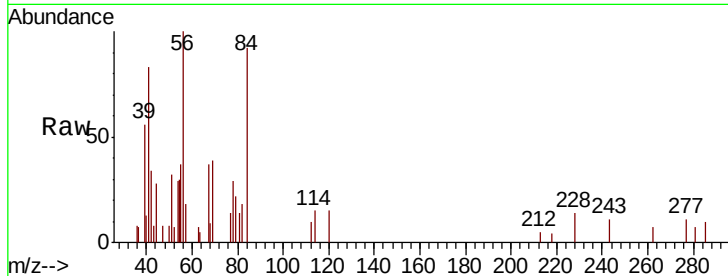




#30
Cyclohexane
Concen: 0.034 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. -0.00 min
Lab File: VL035172.D
Acq: 8 Jul 2020 5:09

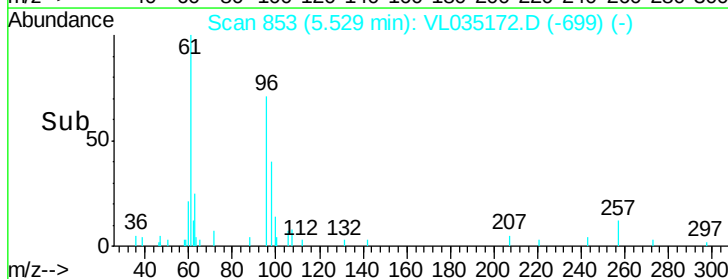
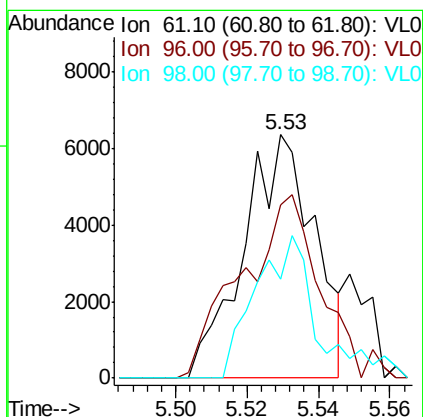
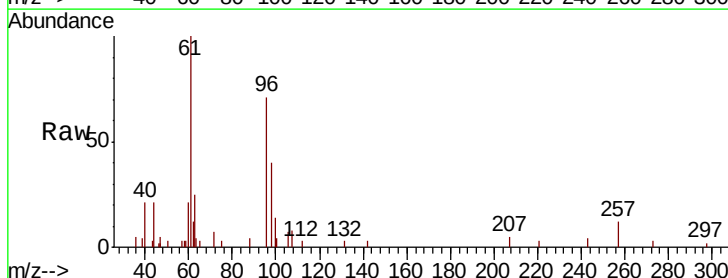
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

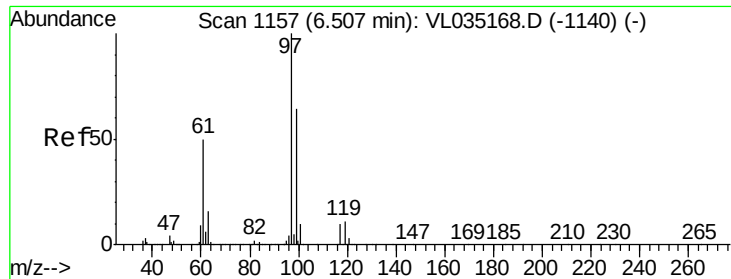
Tot Ion: 84 Resp: 2916
Ion Ratio Lower Upper
84 100
56 0.0 105.6 158.4#
41 231.0 64.9 97.3#



#31
cis-1,2-Dichloroethene
Concen: 0.079 ppbv
RT: 5.53 min Scan# 853
Delta R.T. -0.01 min
Lab File: VL035172.D
Acq: 8 Jul 2020 5:09

Tgt Ion: 61 Resp: 8774
Ion Ratio Lower Upper
61 100
96 68.9 51.3 76.9
98 40.5 33.8 50.8





#32

1,1,1-Trichloroethane

Concen: 0.062 ppbv

RT: 6.51 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

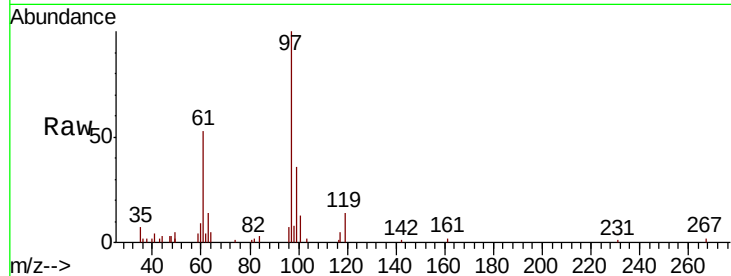
Tot Ion: 97 Resp: 10975

Ion Ratio Lower Upper

97 100

99 0.0 51.2 76.8#

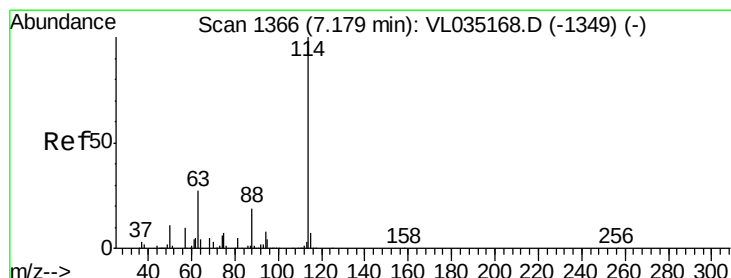
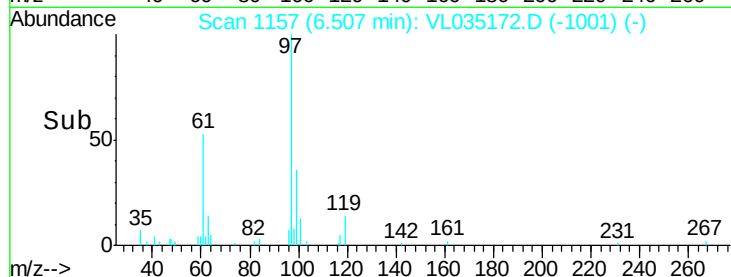
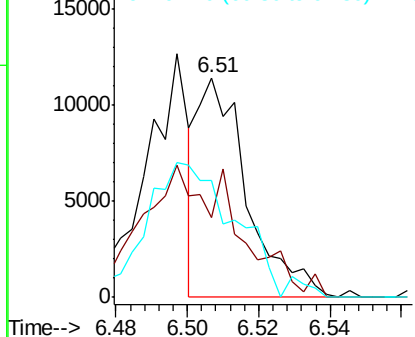
61 0.0 40.9 61.3#



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: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

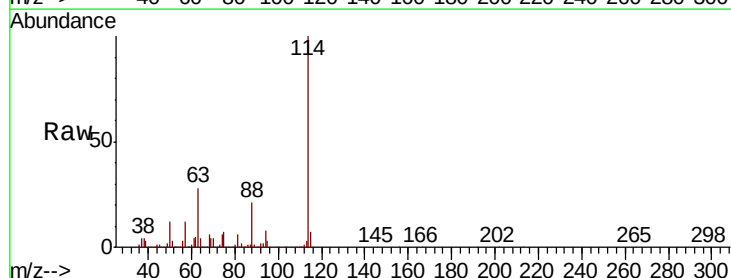
Tgt Ion: 114 Resp: 2932416

Ion Ratio Lower Upper

114 100

63 27.9 22.0 33.0

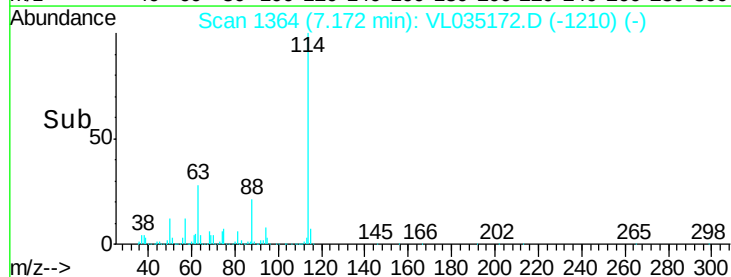
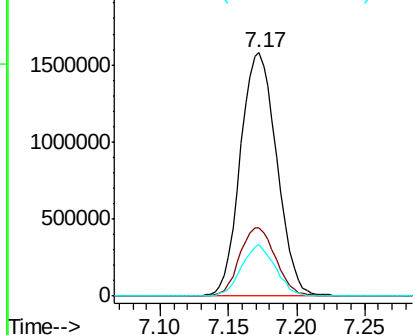
88 19.6 15.4 23.0

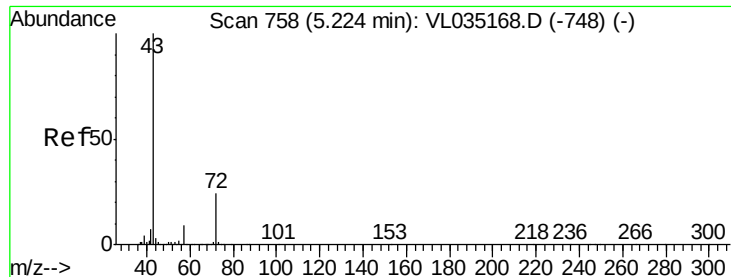


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.110 ppbv

RT: 5.24 min Scan# 764

Delta R.T. 0.02 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

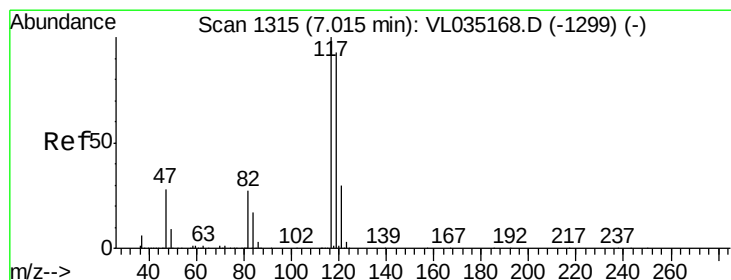
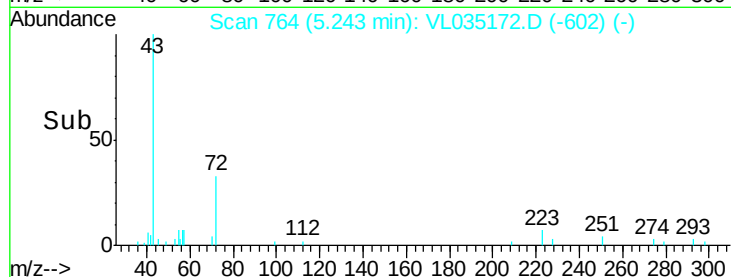
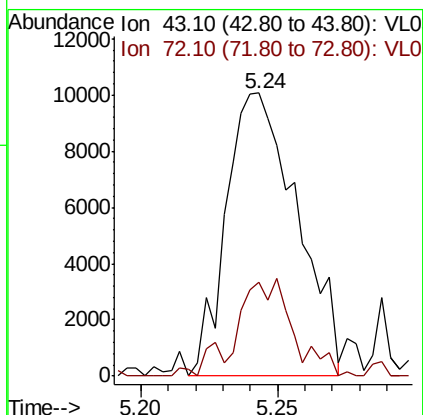
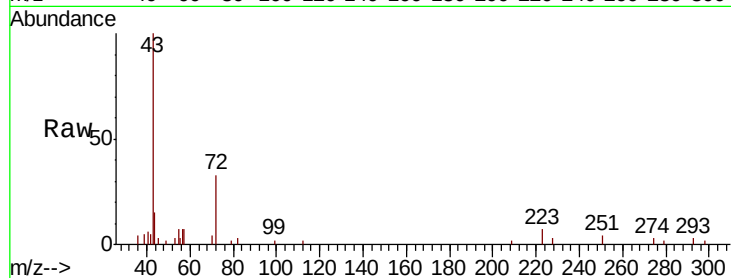
VSTDIC0.1

Tot Ion: 43 Resp: 18234

Ion Ratio Lower Upper

43 100

72 28.3 18.6 28.0#



#35

Carbon Tetrachloride

Concen: 0.074 ppbv

RT: 7.01 min Scan# 1313

Delta R.T. -0.01 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

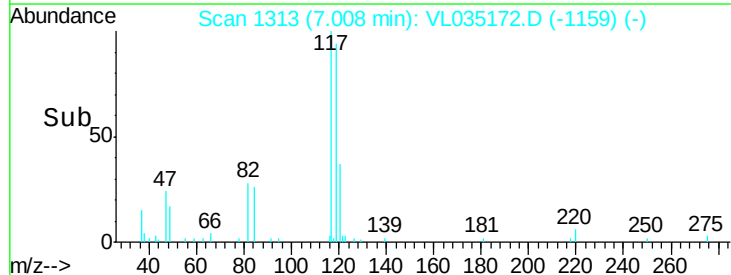
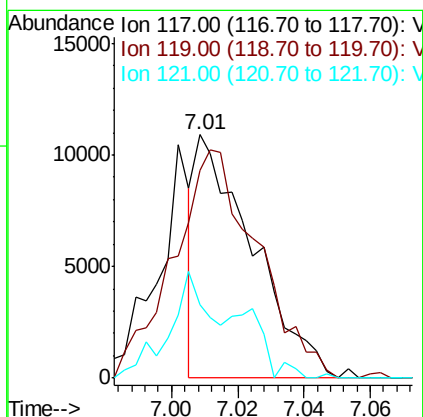
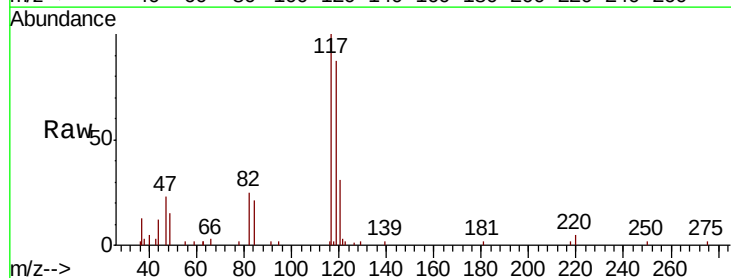
Tgt Ion: 117 Resp: 12997

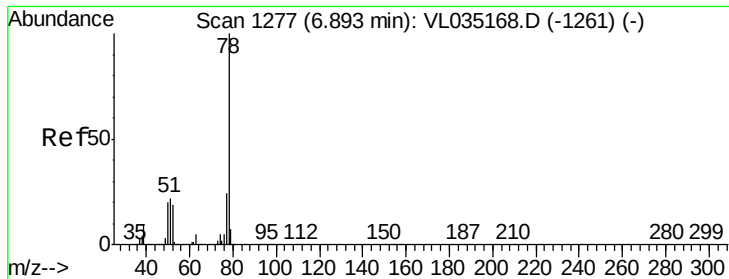
Ion Ratio Lower Upper

117 100

119 85.3 74.8 112.2

121 32.8 24.2 36.2





#36

Benzene

Concen: 0.059 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

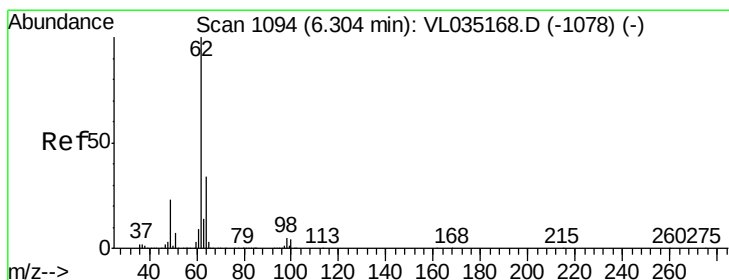
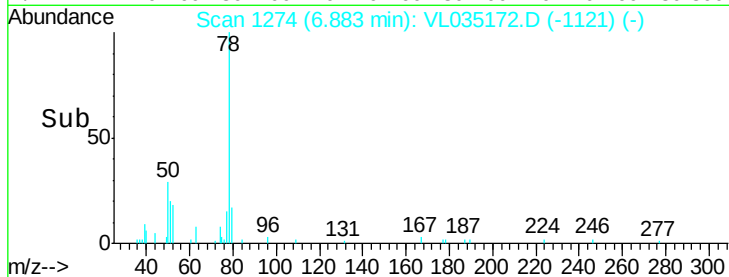
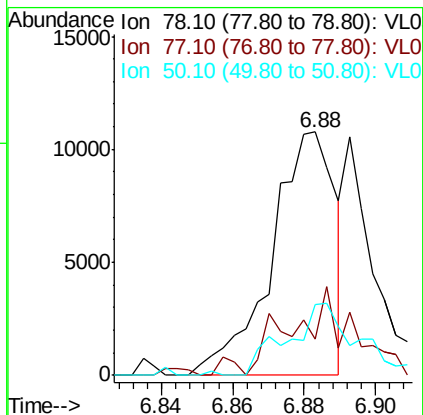
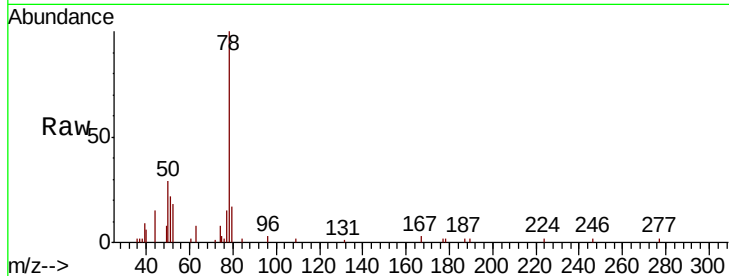
Tot Ion: 78 Resp: 13255

Ion Ratio Lower Upper

78 100

77 12.8 19.3 28.9#

50 29.1 16.0 24.0#



#37

1,2-Dichloroethane

Concen: 0.098 ppbv

RT: 6.29 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VL035172.D

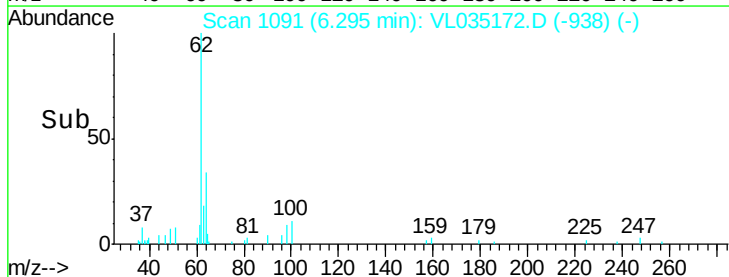
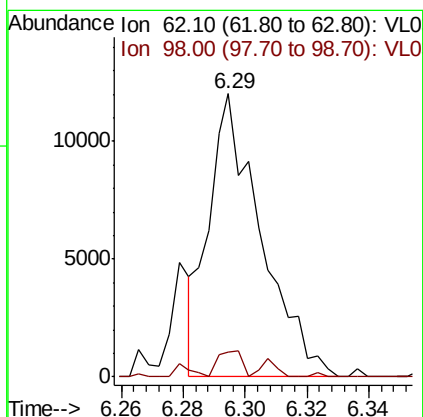
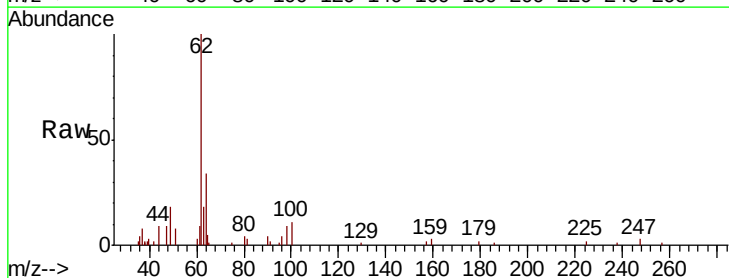
Acq: 8 Jul 2020 5:09

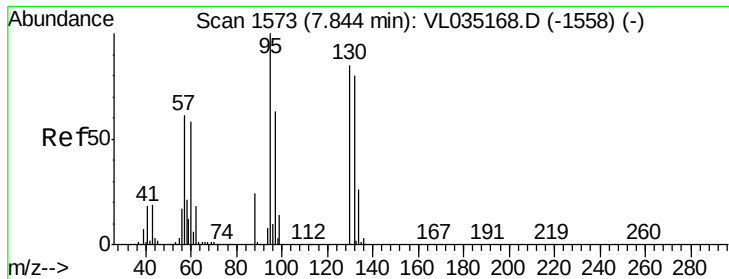
Tgt Ion: 62 Resp: 14063

Ion Ratio Lower Upper

62 100

98 8.1 4.6 6.8#





#38

Trichloroethene

Concen: 0.049 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:130 Resp: 4352

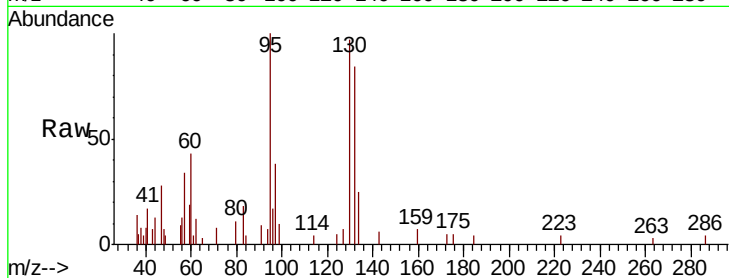
Ion Ratio Lower Upper

130 100

95 47.6 93.8 140.8#

132 35.3 75.0 112.4#

97 0.0 59.5 89.3#

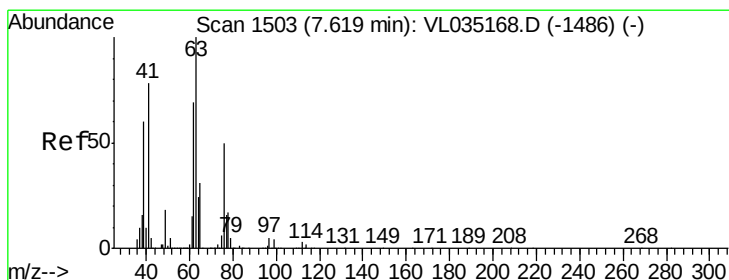
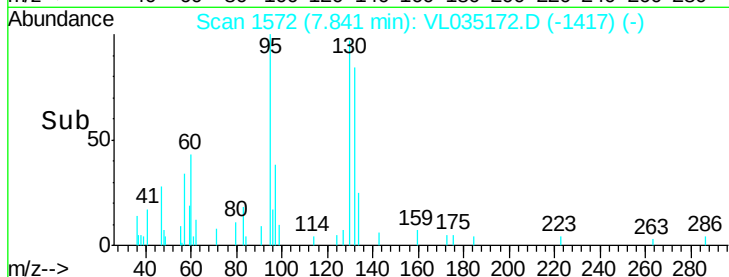
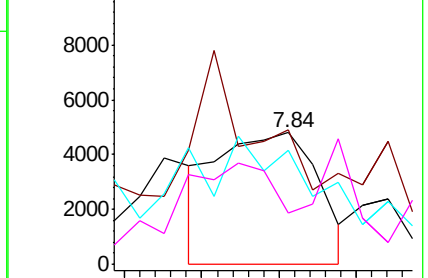


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 9.290 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.45 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

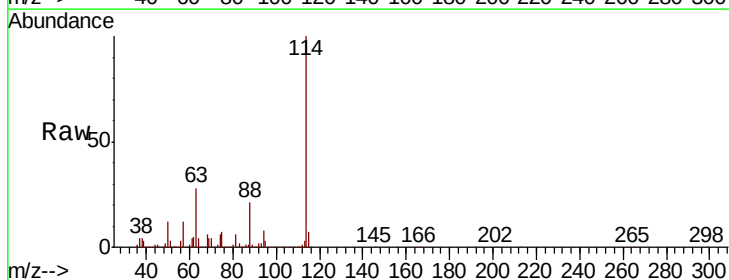
Tgt Ion: 63 Resp: 813511

Ion Ratio Lower Upper

63 100

41 0.1 62.6 94.0#

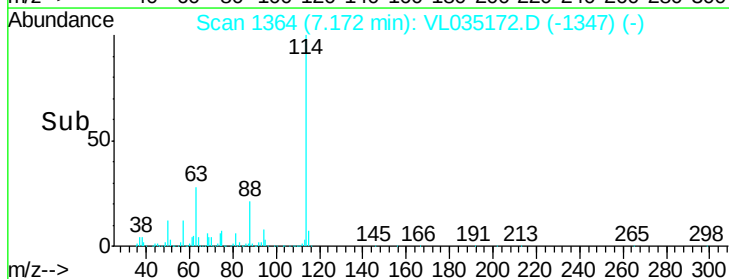
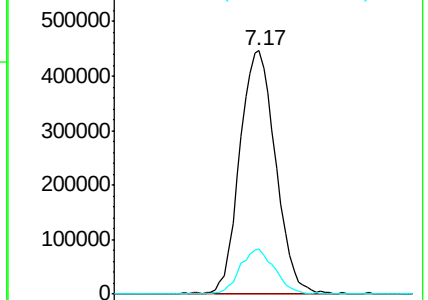
62 18.8 55.0 82.6#

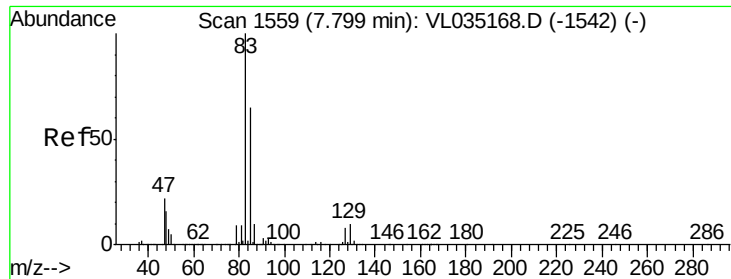


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.069 ppbv

RT: 7.80 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

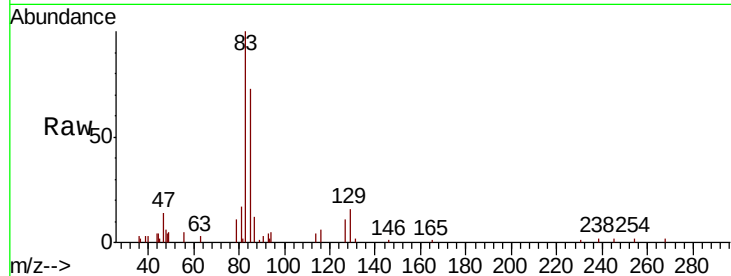
Tot Ion: 83 Resp: 12872

Ion Ratio Lower Upper

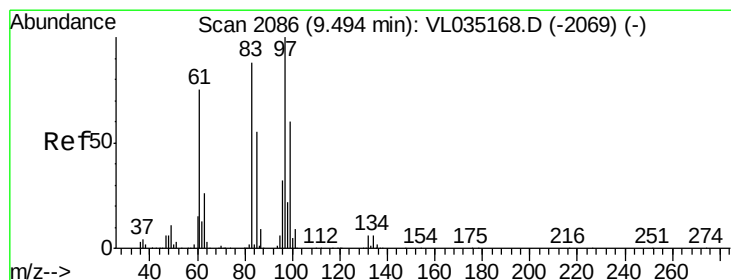
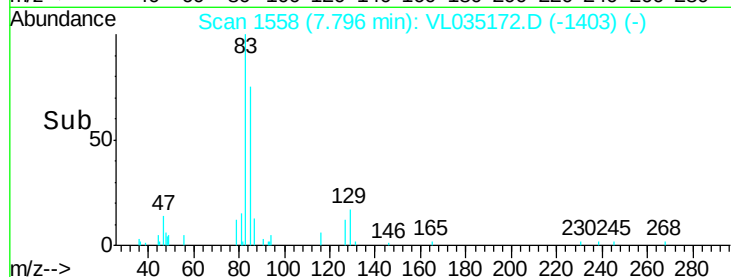
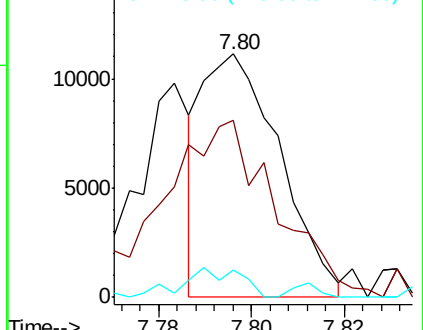
83 100

85 69.8 52.2 78.4

127 11.9 6.3 9.5#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V



#47

1,1,2-Trichloroethane

Concen: 0.059 ppbv

RT: 9.48 min Scan# 2082

Delta R.T. -0.01 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Tgt Ion: 97 Resp: 5707

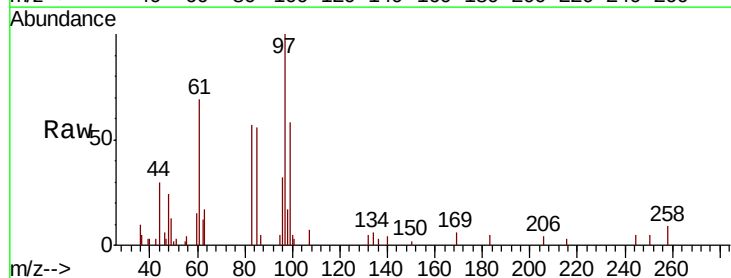
Ion Ratio Lower Upper

97 100

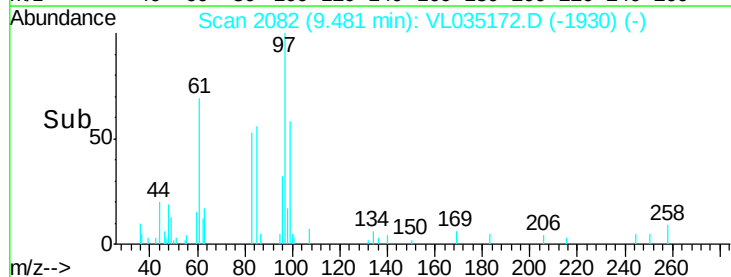
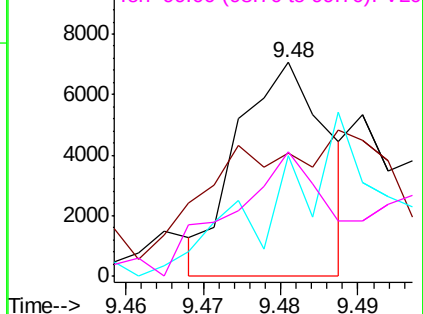
83 34.0 70.3 105.5#

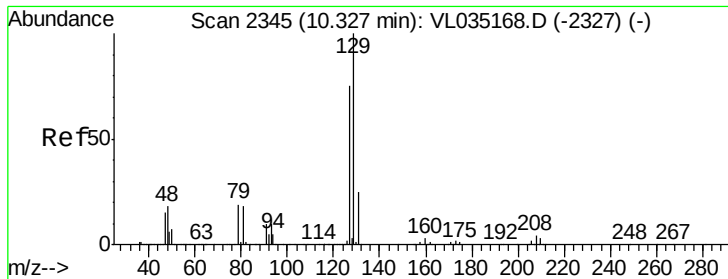
85 66.5 44.3 66.5

99 50.6 47.8 71.6



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 99.00 (98.70 to 99.70): VL0

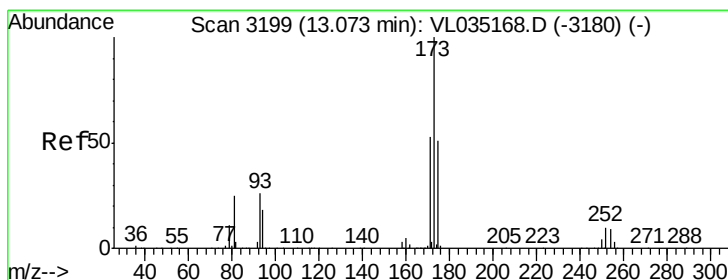
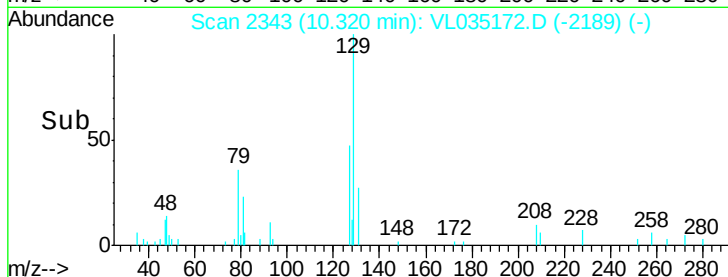
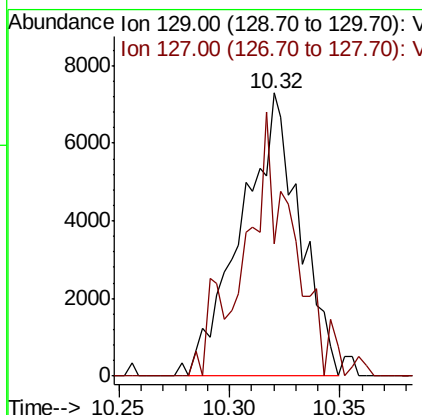
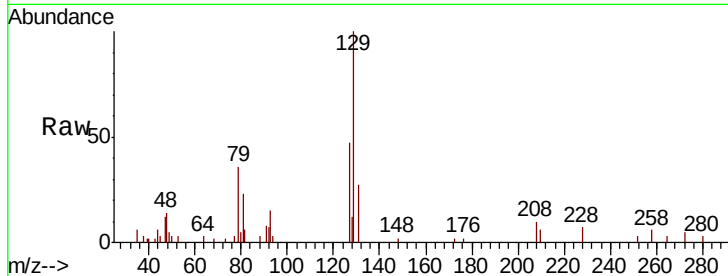




#48
 Dibromochloromethane
 Concen: 0.091 ppbv
 RT: 10.32 min Scan# 2343
 Delta R.T. -0.01 min
 Lab File: VL035172.D
 Acq: 8 Jul 2020 5:09

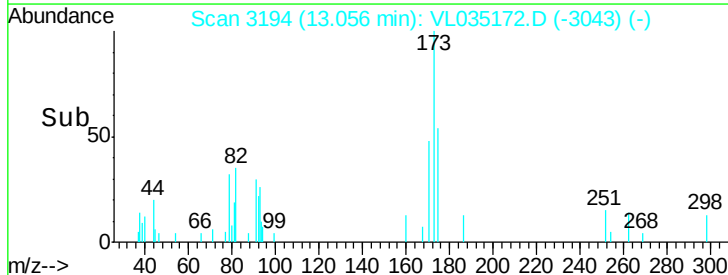
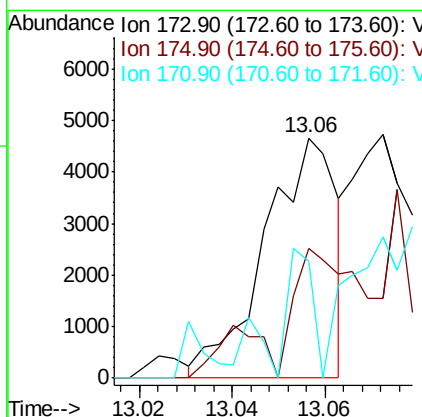
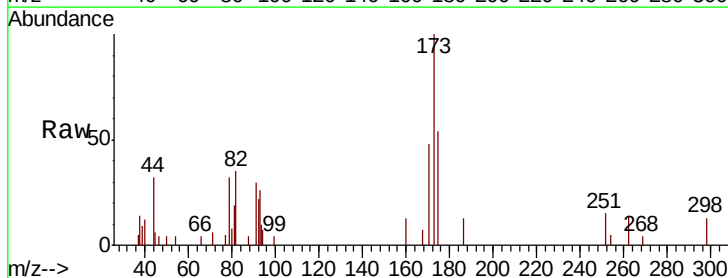
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

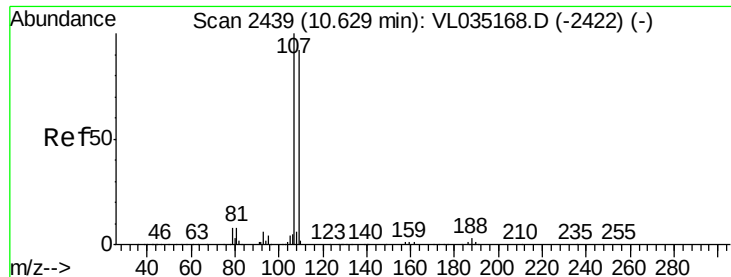
Tot Ion:129 Resp: 13226
 Ion Ratio Lower Upper
 129 100
 127 79.6 38.8 116.3



#49
 Bromoform
 Concen: 0.041 ppbv
 RT: 13.06 min Scan# 3194
 Delta R.T. -0.02 min
 Lab File: VL035172.D
 Acq: 8 Jul 2020 5:09

Tgt Ion:173 Resp: 4995
 Ion Ratio Lower Upper
 173 100
 175 0.0 39.7 59.5#
 171 0.0 41.6 62.4#





#54

1,2-Dibromoethane

Concen: 0.049 ppbv

RT: 10.62 min Scan# 2437

Delta R.T. -0.01 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

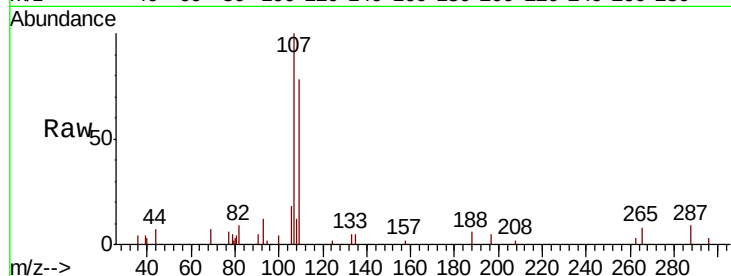
VSTDIC0.1

Tot Ion:107 Resp: 7014

Ion Ratio Lower Upper

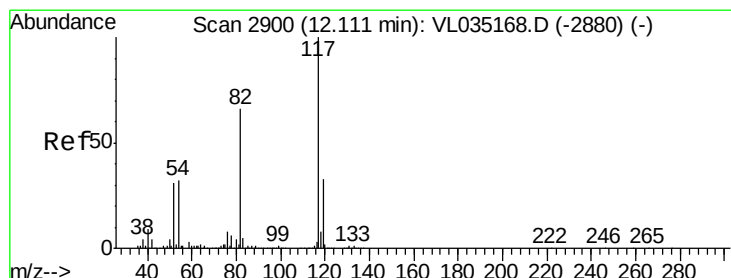
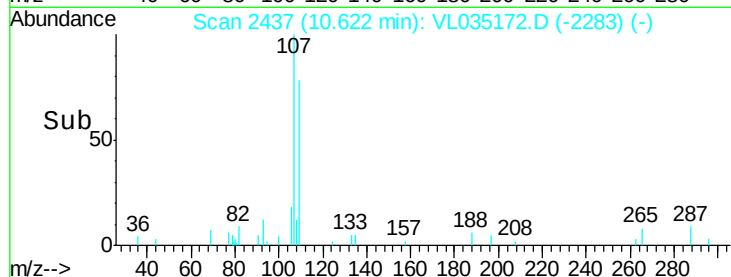
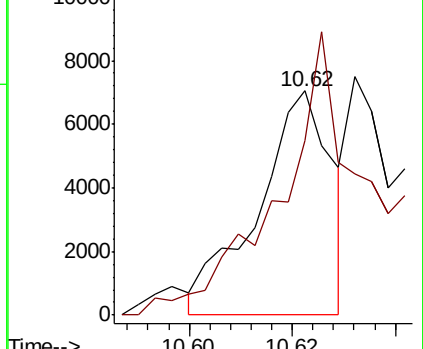
107 100

109 76.3 74.0 111.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

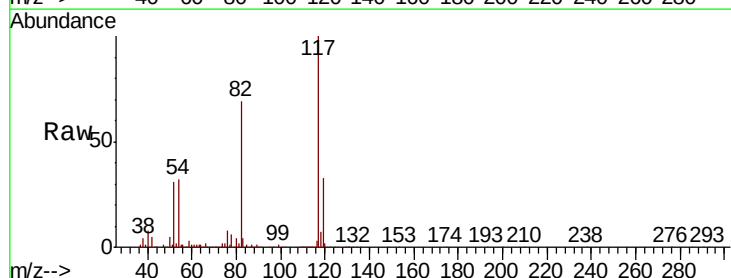
Tgt Ion:117 Resp: 2680121

Ion Ratio Lower Upper

117 100

82 69.5 52.3 78.5

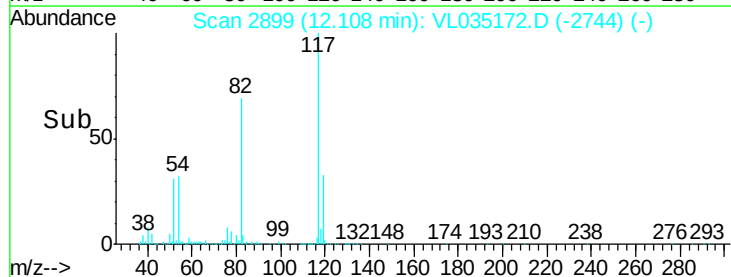
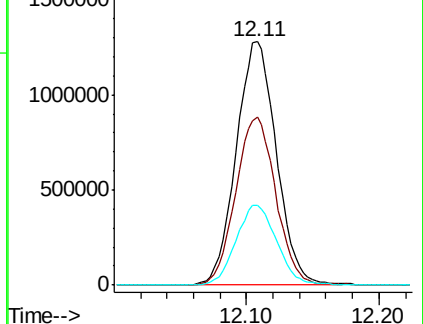
119 33.6 24.9 37.3

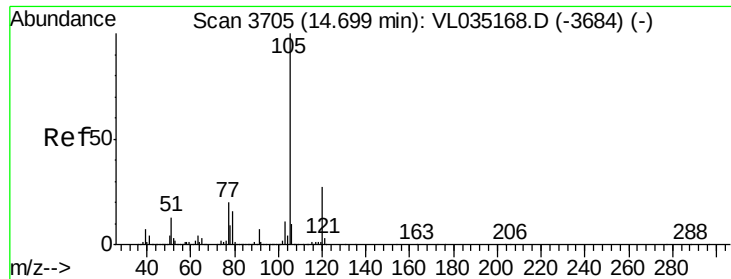


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#62

Isopropylbenzene

Concen: 0.038 ppbv

RT: 14.70 min Scan# 3704

Delta R.T. -0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

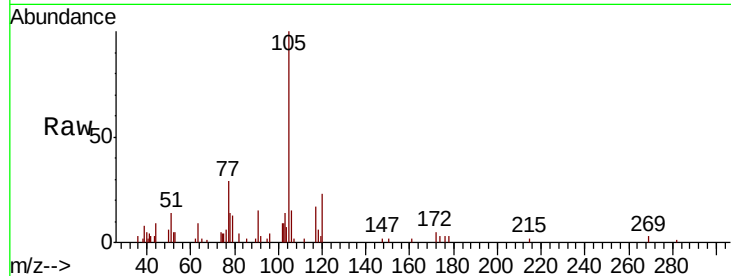
VSTDIC0.1

Tot Ion:105 Resp: 15036

Ion Ratio Lower Upper

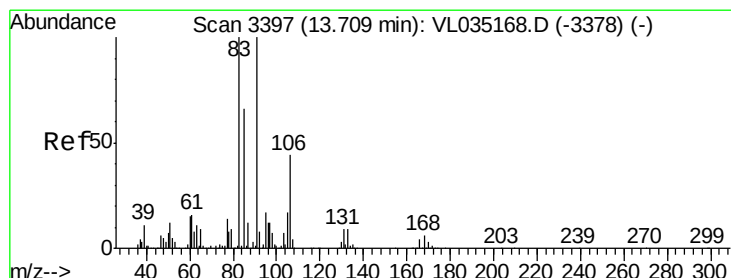
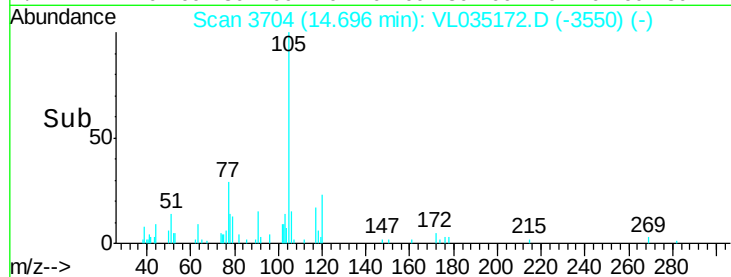
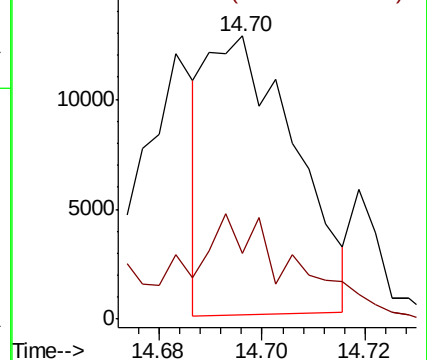
105 100

120 53.6 20.7 31.1#



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: 0.057 ppbv

RT: 13.70 min Scan# 3395

Delta R.T. -0.01 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

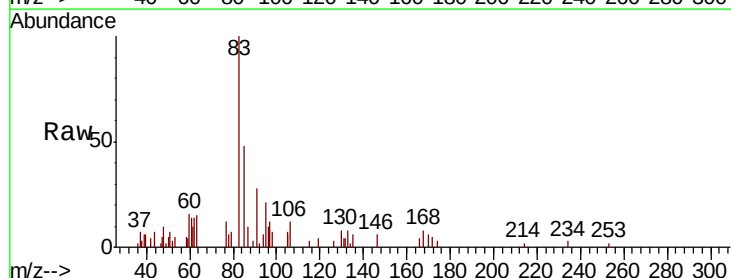
Tgt Ion: 83 Resp: 12371

Ion Ratio Lower Upper

83 100

131 21.0 4.7 14.0#

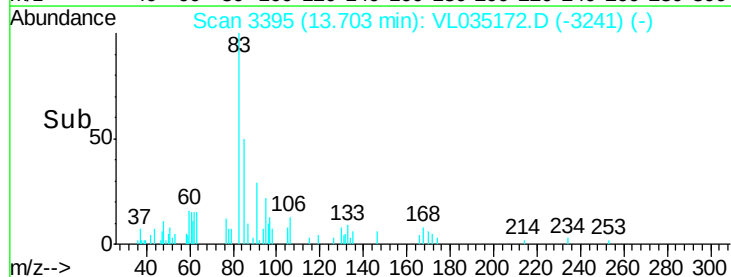
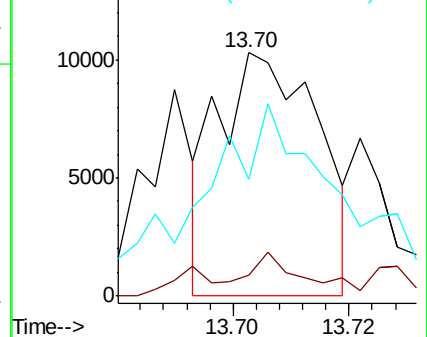
85 122.8 33.0 99.0#

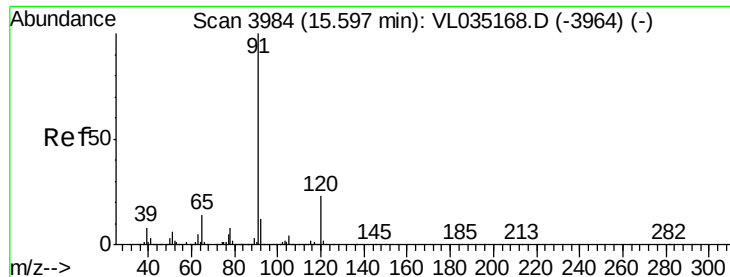


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#64

n-propylbenzene

Concen: 0.037 ppbv

RT: 15.59 min Scan# 3982

Delta R.T. -0.01 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

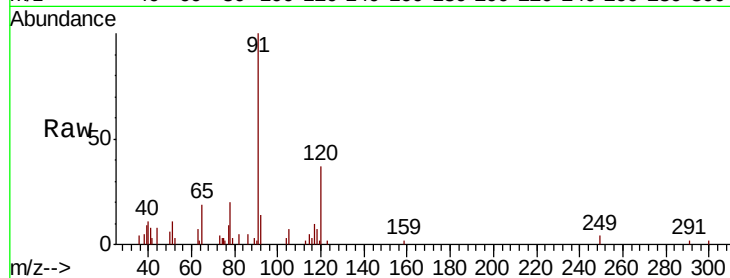
VSTDIC0.1

Tot Ion:120 Resp: 3811

Ion Ratio Lower Upper

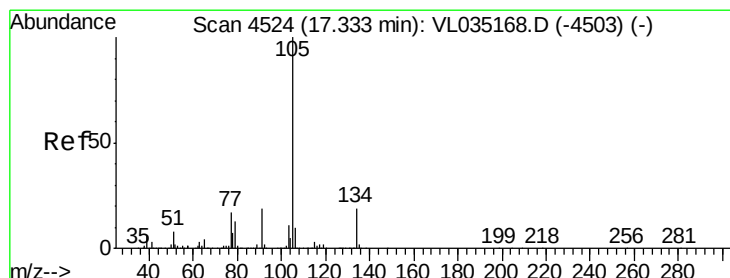
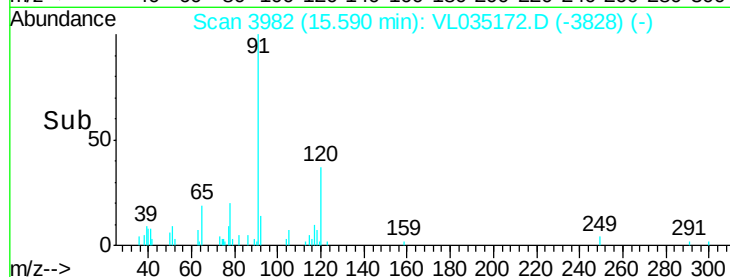
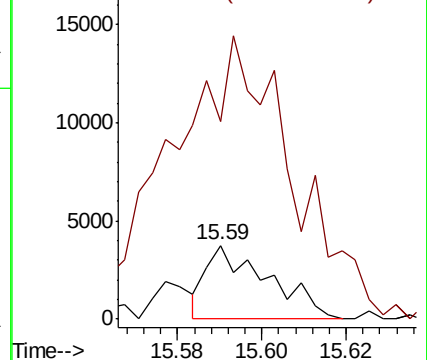
120 100

91 820.1 372.4 558.6#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#67

sec-Butylbenzene

Concen: 0.043 ppbv

RT: 17.33 min Scan# 4524

Delta R.T. -0.00 min

Lab File: VL035172.D

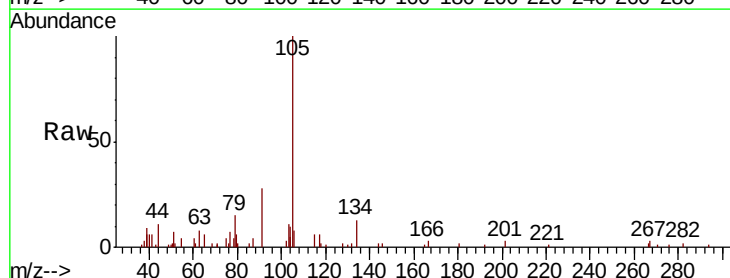
Acq: 8 Jul 2020 5:09

Tgt Ion:105 Resp: 21164

Ion Ratio Lower Upper

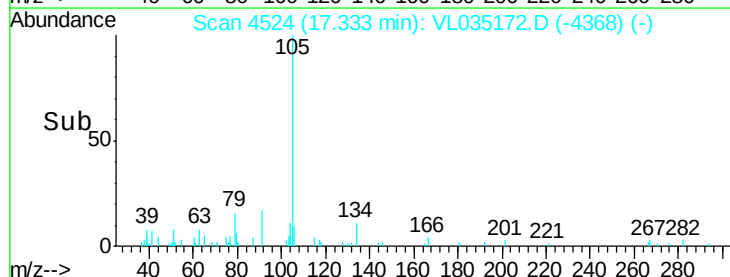
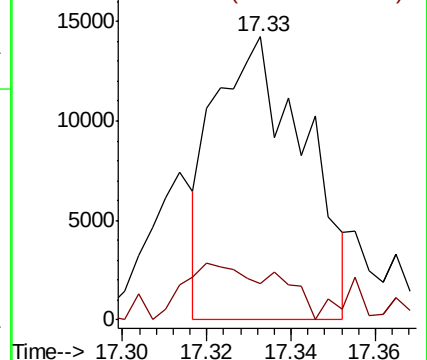
105 100

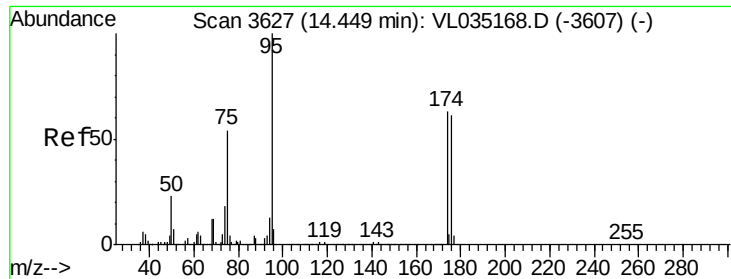
134 0.0 14.6 21.8#



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: 10.194 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. -0.01 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

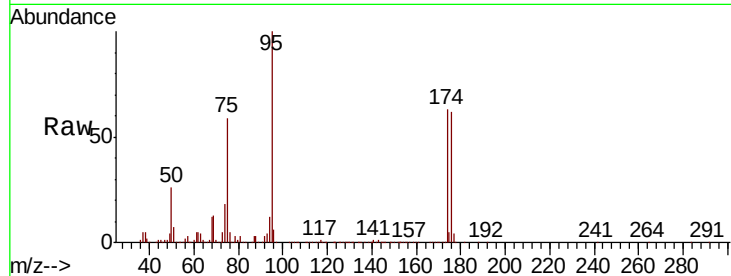
Tot Ion: 95 Resp: 2270438

Ion Ratio Lower Upper

95 100

174 63.8 52.2 78.2

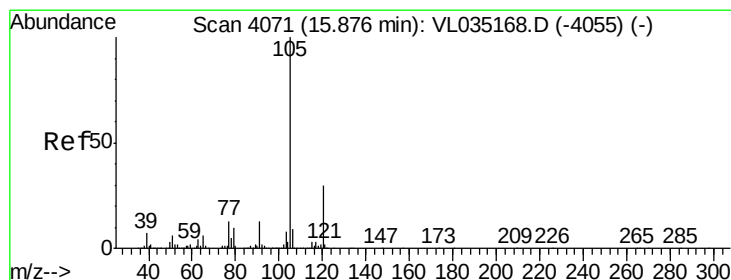
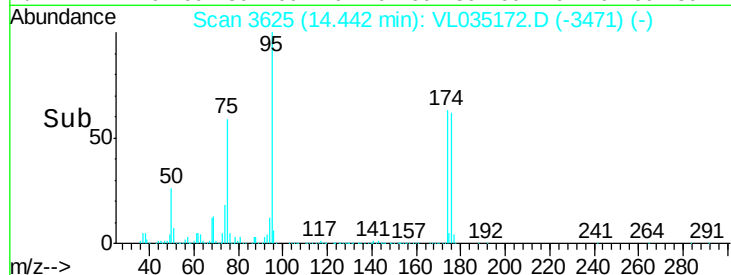
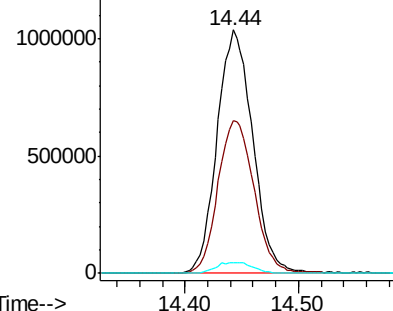
175 4.7 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL035172.D (-3471) (-)

Ion 174.00 (173.70 to 174.70): VL035172.D (-3471) (-)

Ion 175.00 (174.70 to 175.70): VL035172.D (-3471) (-)



#72

4-Ethyltoluene

Concen: 0.035 ppbv

RT: 15.87 min Scan# 4068

Delta R.T. -0.01 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Tgt Ion: 105 Resp: 10340

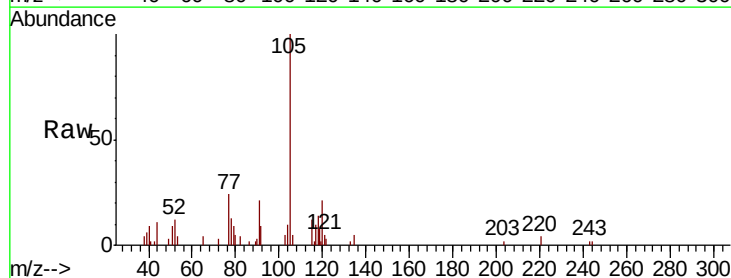
Ion Ratio Lower Upper

105 100

120 44.8 23.2 34.8#

91 0.0 10.9 16.3#

77 30.5 11.8 17.6#

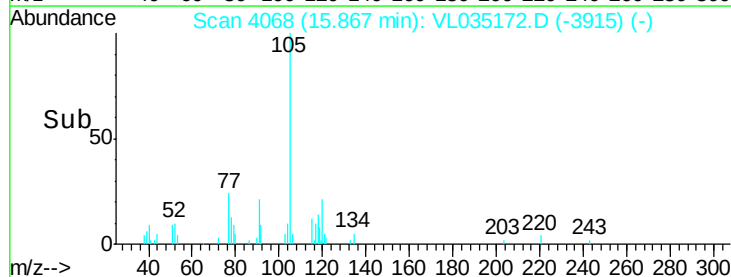
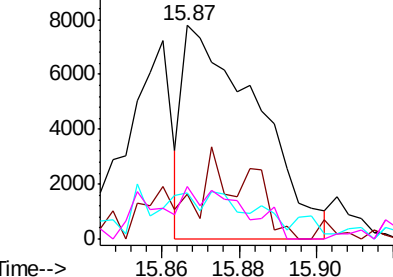


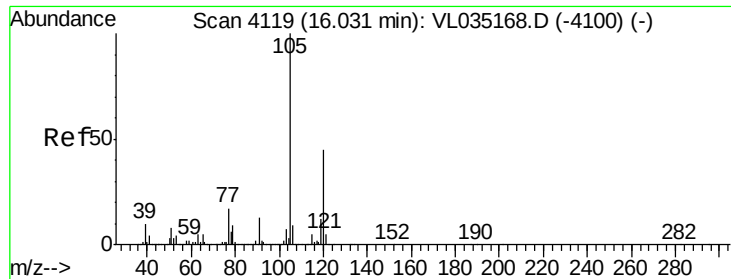
Abundance Ion 105.10 (104.80 to 105.80): VL035172.D (-3915) (-)

Ion 120.20 (119.90 to 120.90): VL035172.D (-3915) (-)

Ion 91.10 (90.80 to 91.80): VL035172.D (-3915) (-)

Ion 77.10 (76.80 to 77.80): VL035172.D (-3915) (-)





#73

1,3,5-Trimethylbenzene

Concen: 0.037 ppbv

RT: 16.03 min Scan# 4118

Delta R.T. -0.00 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

Instrument :

MSVOA_L

ClientSampleId :

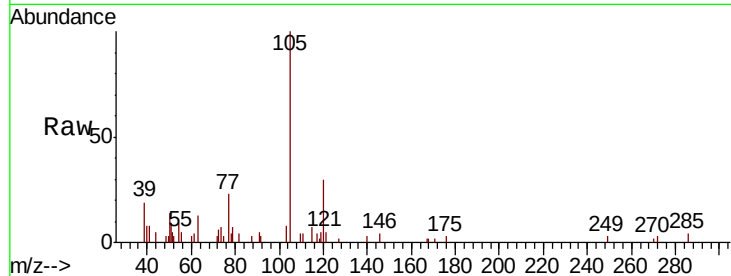
VSTDIC0.1

Tot Ion:105 Resp: 10545

Ion Ratio Lower Upper

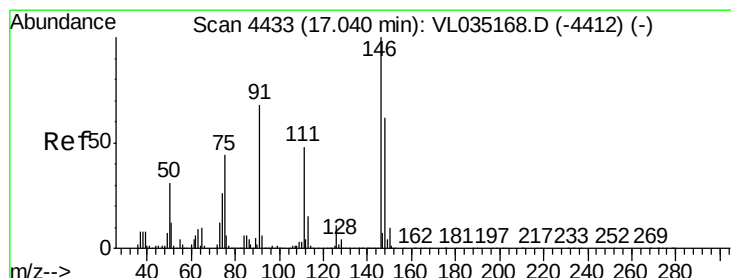
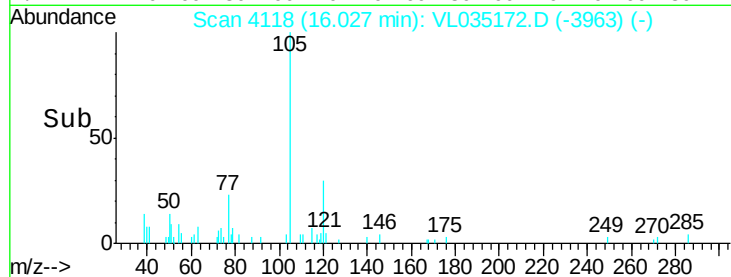
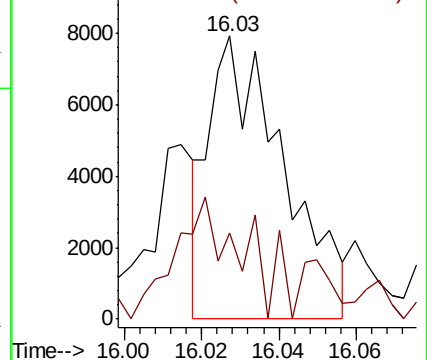
105 100

120 31.0 36.2 54.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#75

1,3-Dichlorobenzene

Concen: 0.057 ppbv

RT: 17.03 min Scan# 4429

Delta R.T. -0.01 min

Lab File: VL035172.D

Acq: 8 Jul 2020 5:09

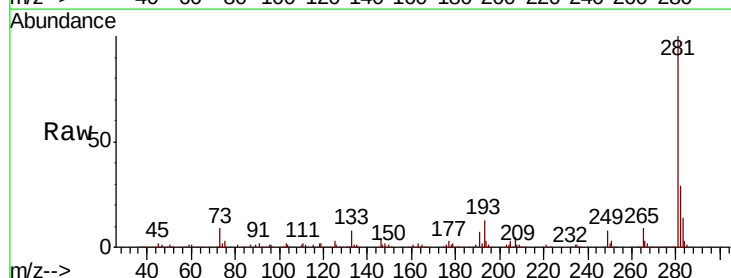
Tgt Ion:146 Resp: 10801

Ion Ratio Lower Upper

146 100

111 215.7 24.7 74.1#

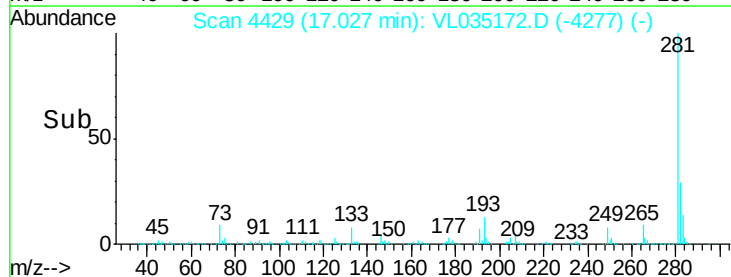
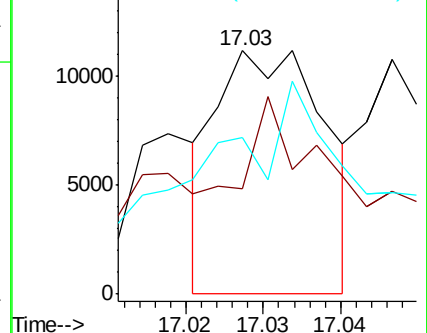
148 202.3 32.4 97.0#

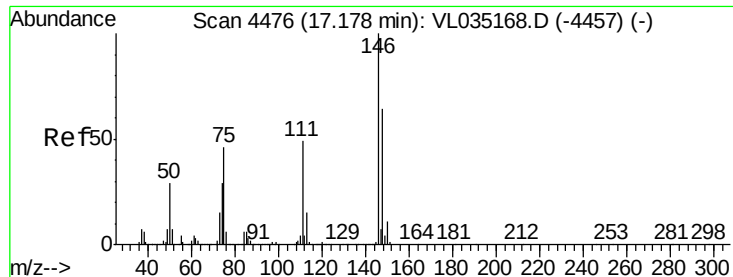


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

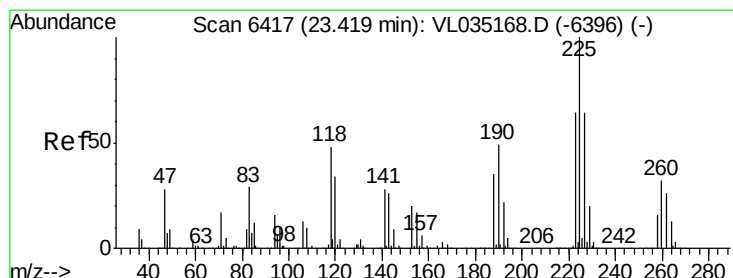
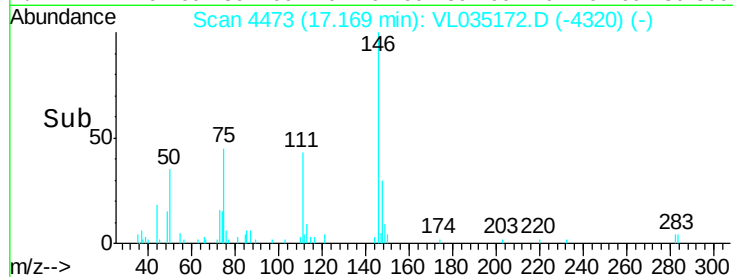
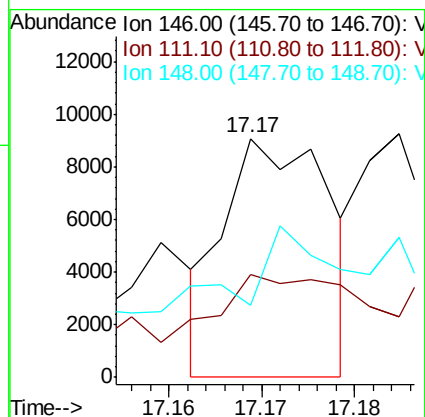
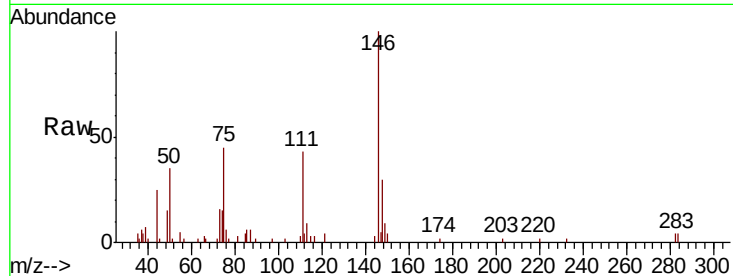




#76
 1,4-Dichlorobenzene
 Concen: 0.039 ppbv
 RT: 17.17 min Scan# 4473
 Delta R.T. -0.01 min
 Lab File: VL035172.D
 Acq: 8 Jul 2020 5:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion:146 Resp: 7132
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.8 71.2#
 148 180.7 32.3 96.9#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.048 ppbv
 RT: 23.41 min Scan# 6414
 Delta R.T. -0.01 min
 Lab File: VL035172.D
 Acq: 8 Jul 2020 5:09

Tgt Ion:225 Resp: 7290
 Ion Ratio Lower Upper
 225 100
 223 173.3 50.2 75.2#
 227 0.0 51.2 76.8#

