

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072320\
 Data File : VL035229.D
 Acq On : 23 Jul 2020 15:10
 Operator : SY/AP
 Sample : L3216-13 0.1 LOD
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 24 05:56:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08 07:05:23 2020
 QLast Update : Wed Jul 08 07:05:23 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1150041	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2832380	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2613436	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2175258	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	29144	0.181	ppbv 88
3) Chlorodifluoromethane	2.94	51	18798	0.148	ppbv # 87
4) Chloromethane	3.10	50	6708	0.094	ppbv # 86
5) Vinyl Chloride	3.21	62	8901	0.116	ppbv # 84
6) Bromomethane	3.43	94	6588	0.152	ppbv # 57
7) Chloroethane	3.51	64	1080	0.040	ppbv # 77
8) Dichlorotetrafluoroethane	3.14	85	26626	0.151	ppbv 97
11) Trichlorofluoromethane	3.91	101	13057	0.072	ppbv 93
12) 1,1,2-Trichlorotrifluoroet	4.46	101	20639	0.161	ppbv 97
13) Ethanol	3.57	45	573	0.037	ppbv # 35
14) Bromoethene	3.70	108	4468	0.085	ppbv # 41
15) Acetone	3.84	43	48858	0.314	ppbv # 81
16) 1,3-Butadiene	3.28	39	4465	0.075	ppbv # 7
18) 1,1-Dichloroethene	4.25	96	2902	0.051	ppbv 91
20) Methylene Chloride	4.32	84	13814	0.204	ppbv # 86
21) Allyl Chloride	4.38	41	5079	0.056	ppbv # 19
22) trans-1,2-Dichloroethene	4.86	96	3705	0.066	ppbv # 56
23) Vinyl Acetate	5.06	43	6123	0.036	ppbv # 55
24) 1,1-Dichloroethane	4.99	63	19143	0.132	ppbv 97
25) Ethyl Acetate	5.67	43	25867	0.107	ppbv # 93
26) Hexane	5.66	57	6508	0.061	ppbv # 1
27) Carbon Disulfide	4.53	76	19923	0.134	ppbv # 71
28) Methyl tert-Butyl Ether	5.03	73	7223	0.045	ppbv # 53
29) Chloroform	5.74	83	24216	0.136	ppbv 86
31) cis-1,2-Dichloroethene	5.53	61	5116	0.051	ppbv # 87
32) 1,1,1-Trichloroethane	6.50	97	10500	0.059	ppbv # 21
34) 2-Butanone	5.24	43	8785	0.058	ppbv # 52
35) Carbon Tetrachloride	7.01	117	9771	0.053	ppbv # 68
36) Benzene	6.88	78	9578	0.047	ppbv # 74
37) 1,2-Dichloroethane	6.29	62	15641	0.114	ppbv 99
39) 1,2-Dichloropropane	7.17	63	776776	9.528	ppbv # 23
42) Bromodichloromethane	7.79	83	9397	0.051	ppbv 90
44) 2,2,4-Trimethylpentane	7.87	57	10982	0.031	ppbv # 10
47) 1,1,2-Trichloroethane	9.49	97	4715	0.053	ppbv # 67
48) Dibromochloromethane	10.32	129	5655	0.039	ppbv # 11
49) Bromoform	13.06	173	6183	0.049	ppbv # 22
54) 1,2-Dibromoethane	10.63	107	11506	0.087	ppbv 89
56) 1,1,1,2-Tetrachloroethane	12.15	131	4909	0.042	ppbv # 1
57) Chlorobenzene	12.17	112	14878	0.077	ppbv # 33
59) m/p-Xylene	13.02	91	8009	0.031	ppbv # 42
60) o-Xylene	13.72	91	12331	0.048	ppbv 89

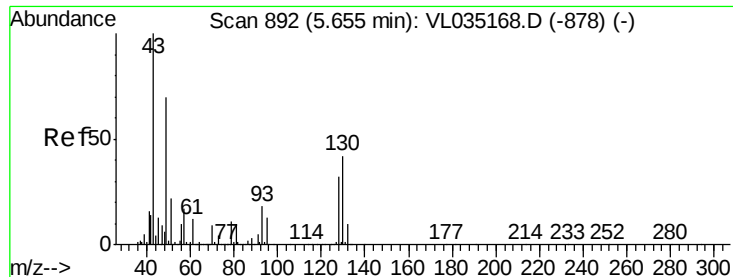
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072320\
Data File : VL035229.D
Acq On : 23 Jul 2020 15:10
Operator : SY/AP
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08 07:05:23 2020
QLast Update : Wed Jul 08 07:05:23 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Isopropylbenzene	14.70	105	22741	0.060	ppbv #	83
66) Benzyl Chloride	17.04	91	5678	0.047	ppbv #	11
67) sec-Butylbenzene	17.33	105	20158	0.040	ppbv #	81
71) 2-Chlorotoluene	15.49	91	11727	0.041	ppbv	76
75) 1,3-Dichlorobenzene	17.03	146	16062	0.082	ppbv #	22
76) 1,4-Dichlorobenzene	17.18	146	12191	0.067	ppbv #	32
78) Hexachloro-1,3-Butadiene	23.42	225	8991	0.065	ppbv #	4

(#) = 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

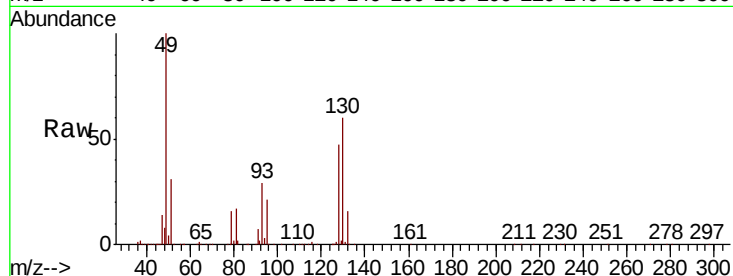
Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1150041

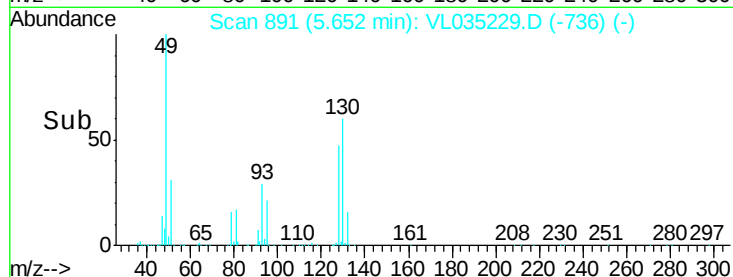
Ion	Ratio	Lower	Upper
49	100		
128	48.0	23.8	71.4
130	63.1	29.9	89.8



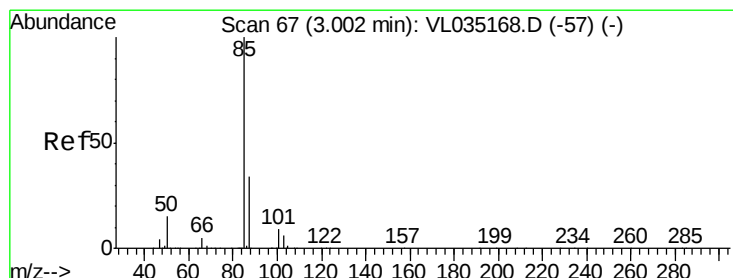
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.181 ppbv

RT: 3.01 min Scan# 68

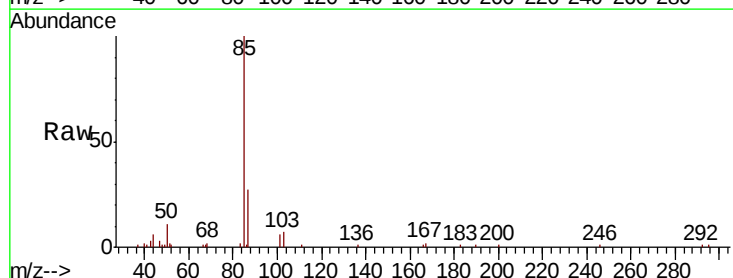
Delta R.T. 0.00 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

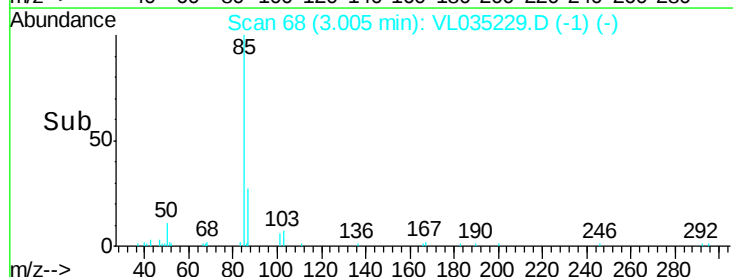
Tgt Ion: 85 Resp: 29144

Ion	Ratio	Lower	Upper
85	100		
87	27.2	27.0	40.6

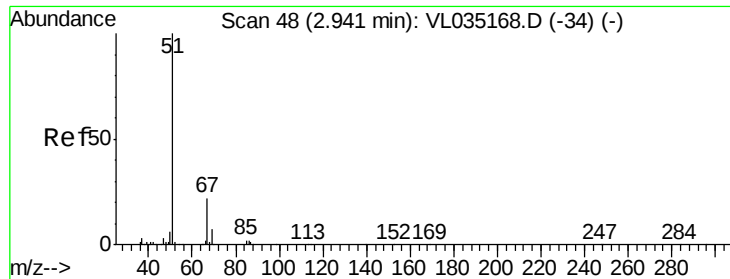


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->



#3

Chlorodifluoromethane

Concen: 0.148 ppbv

RT: 2.94 min Scan# 49

Delta R.T. 0.00 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Instrument :

MSVOA_L

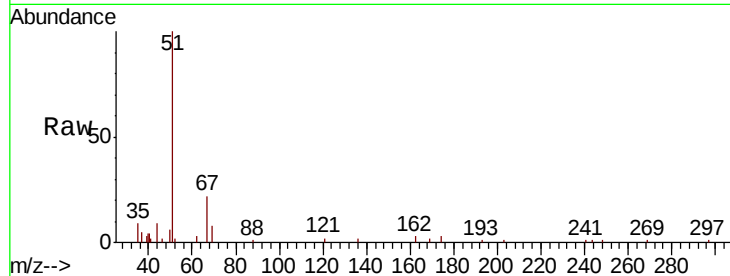
ClientSampleId :

Tot Ion: 51 Resp: 18798

Ion Ratio Lower Upper

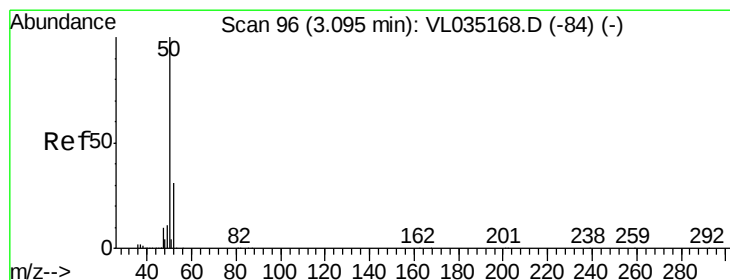
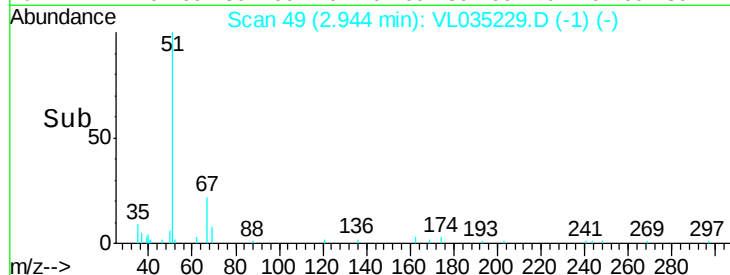
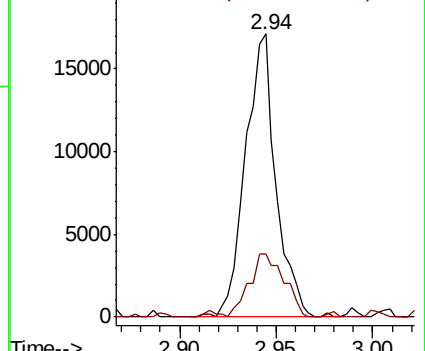
51 100

67 26.6 16.6 24.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.094 ppbv

RT: 3.10 min Scan# 96

Delta R.T. 0.00 min

Lab File: VL035229.D

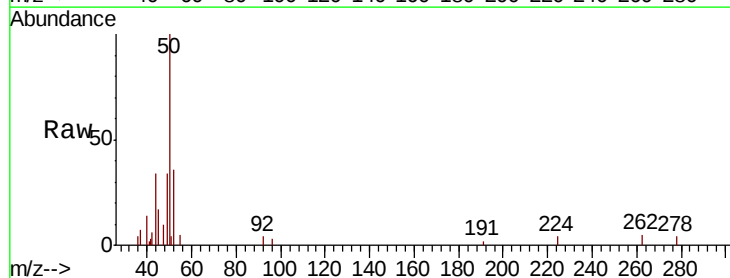
Acq: 23 Jul 2020 15:10

Tgt Ion: 50 Resp: 6708

Ion Ratio Lower Upper

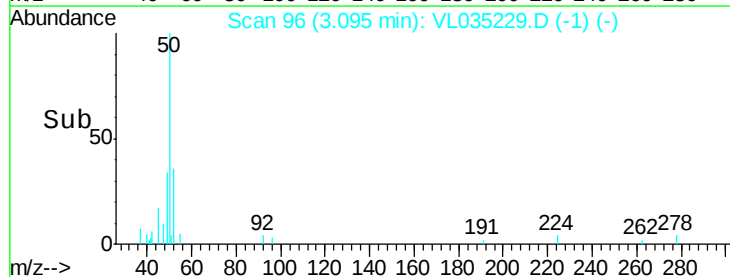
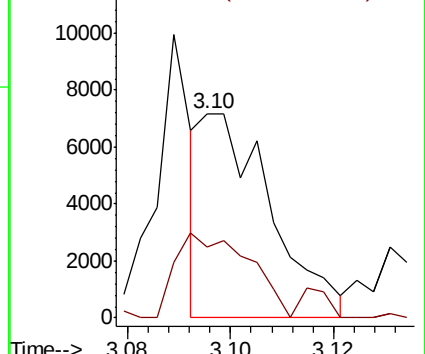
50 100

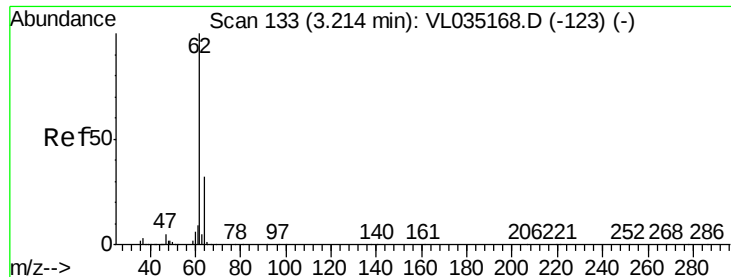
52 39.0 25.0 37.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.116 ppbv

RT: 3.21 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Instrument :

MSVOA_L

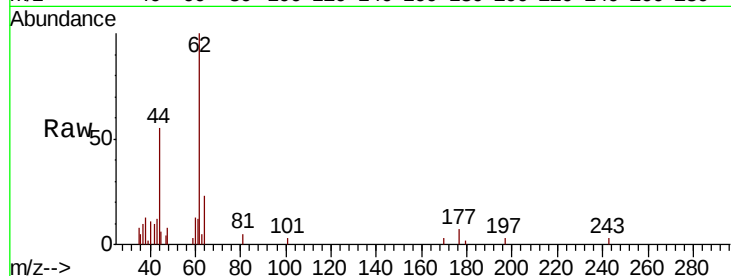
ClientSampleId :

Tot Ion: 62 Resp: 8901

Ion Ratio Lower Upper

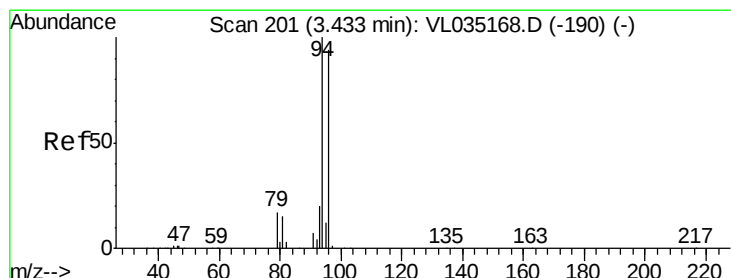
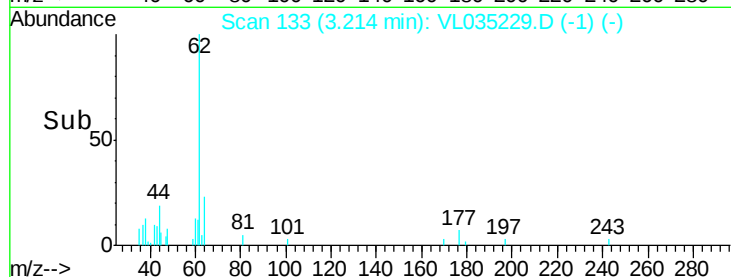
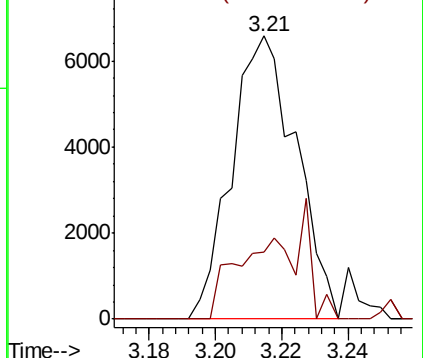
62 100

64 23.5 25.9 38.9#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.152 ppbv

RT: 3.43 min Scan# 200

Delta R.T. -0.00 min

Lab File: VL035229.D

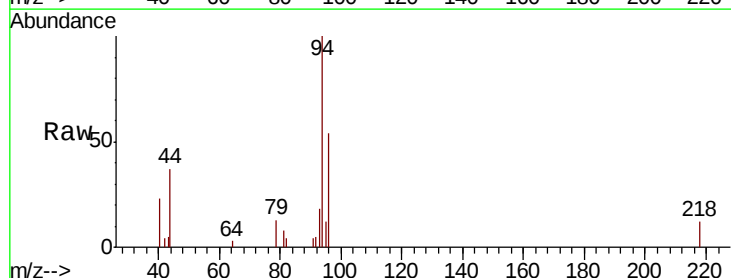
Acq: 23 Jul 2020 15:10

Tgt Ion: 94 Resp: 6588

Ion Ratio Lower Upper

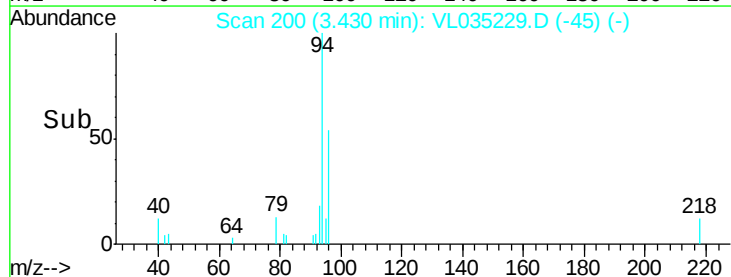
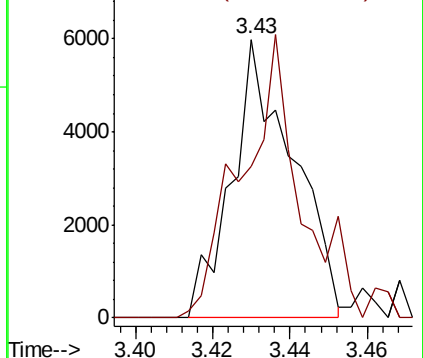
94 100

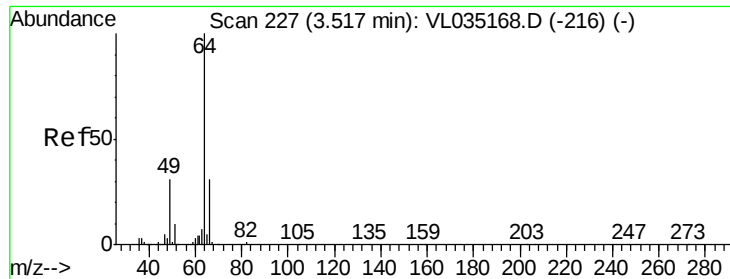
96 51.7 74.8 112.2#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.040 ppbv

RT: 3.51 min Scan# 225

Delta R.T. -0.01 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Instrument :

MSVOA_L

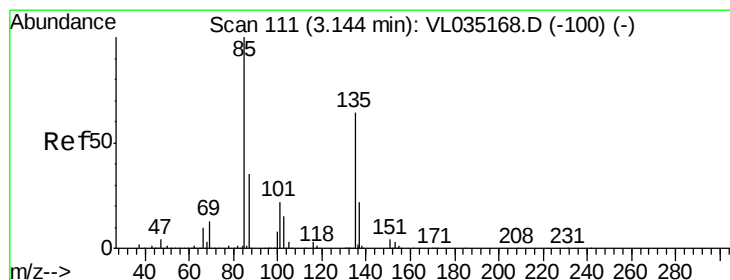
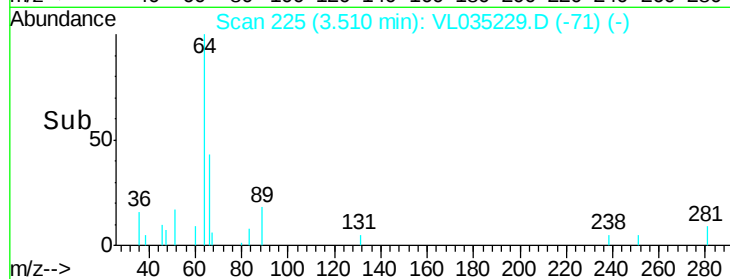
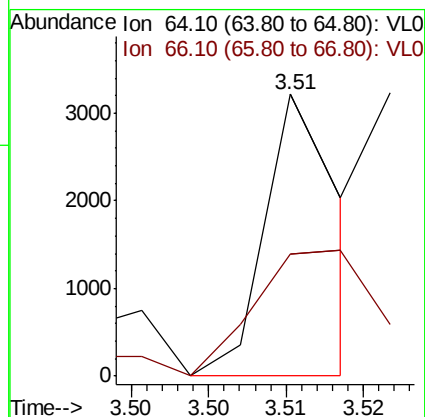
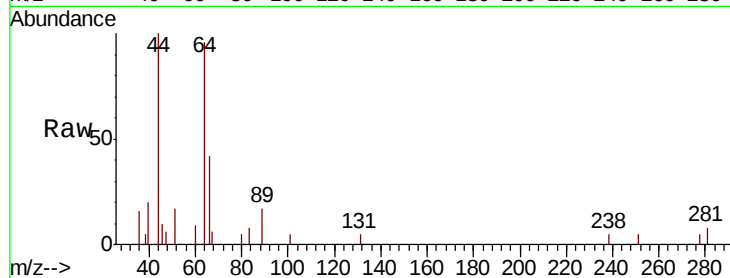
ClientSampleId :

Tot Ion: 64 Resp: 1080

Ion Ratio Lower Upper

64 100

66 43.4 24.6 36.8#



#8

Dichlorotetrafluoroethane

Concen: 0.151 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL035229.D

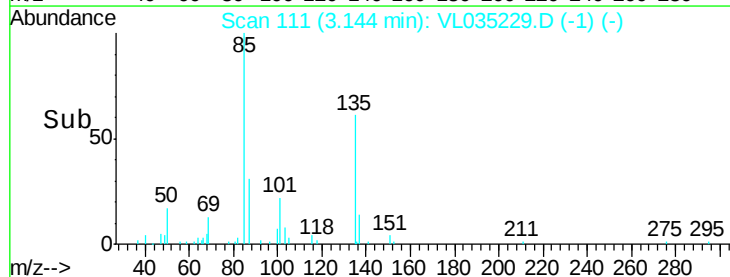
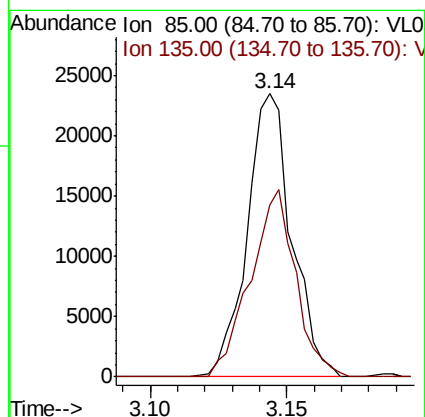
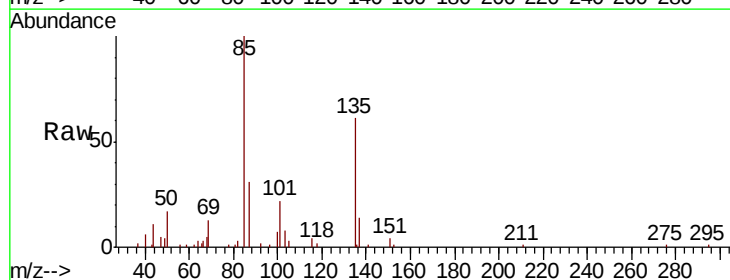
Acq: 23 Jul 2020 15:10

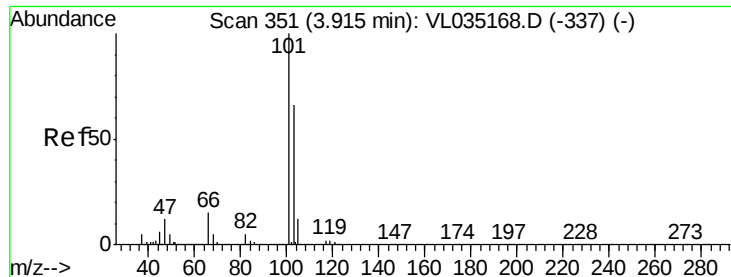
Tgt Ion: 85 Resp: 26626

Ion Ratio Lower Upper

85 100

135 67.2 52.1 78.1

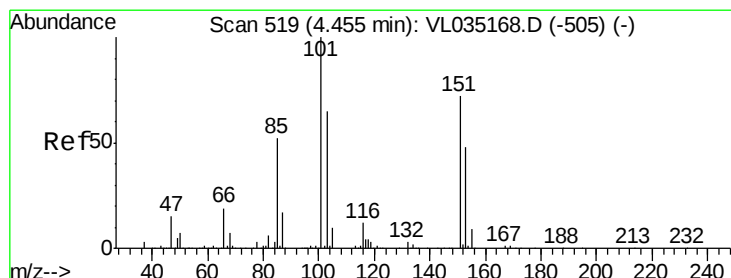
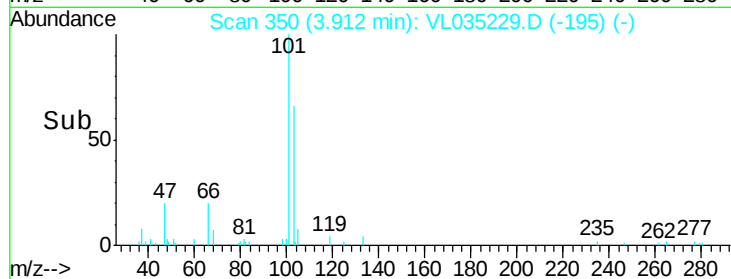
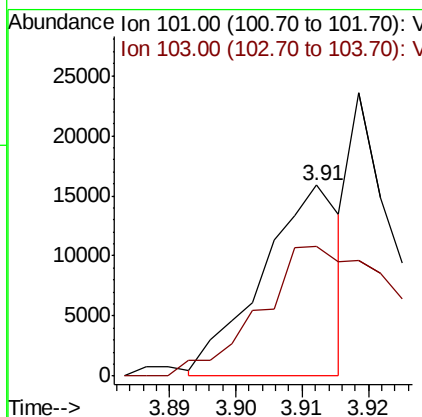
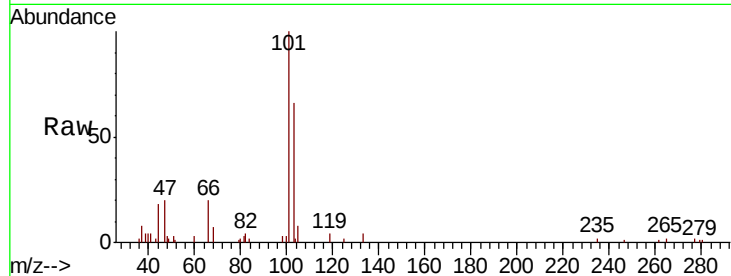




#11
 Trichlorofluoromethane
 Concen: 0.072 ppbv
 RT: 3.91 min Scan# 350
 Delta R.T. -0.00 min
 Lab File: VL035229.D
 Acq: 23 Jul 2020 15:10

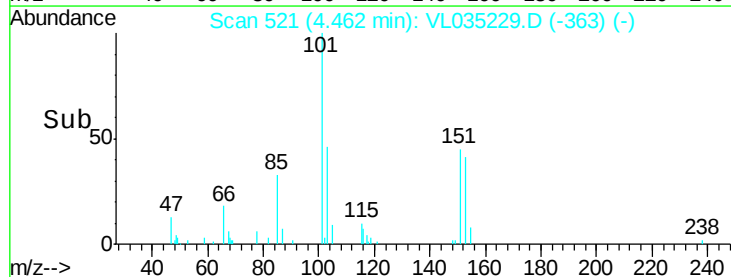
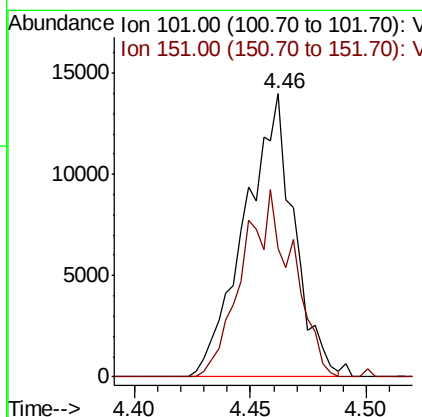
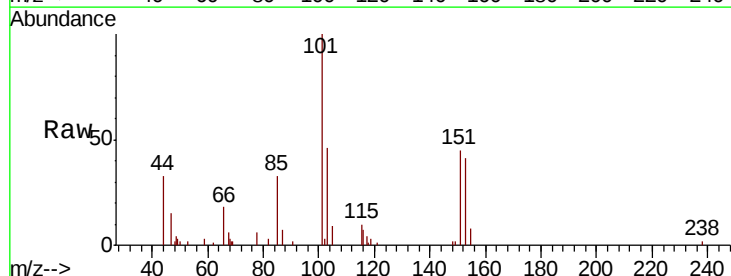
Instrument :
 MSVOA_L
 ClientSampleId :

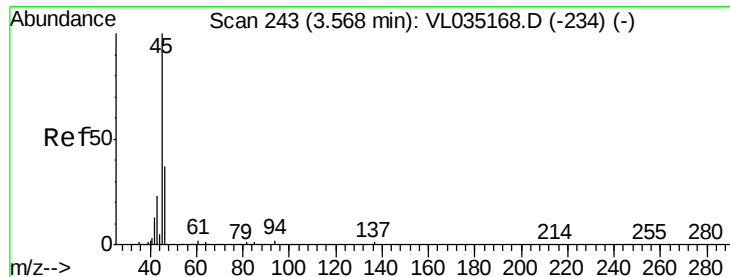
Tot Ion:101 Resp: 13057
 Ion Ratio Lower Upper
 101 100
 103 60.8 53.1 79.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.161 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. 0.01 min
 Lab File: VL035229.D
 Acq: 23 Jul 2020 15:10

Tgt Ion:101 Resp: 20639
 Ion Ratio Lower Upper
 101 100
 151 68.3 57.0 85.4





#13

Ethanol

Concen: 0.037 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.00 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Instrument :

MSVOA_L

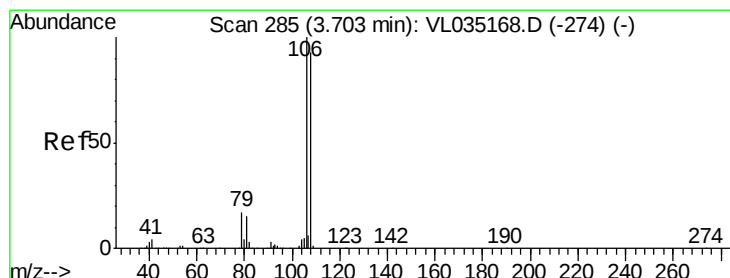
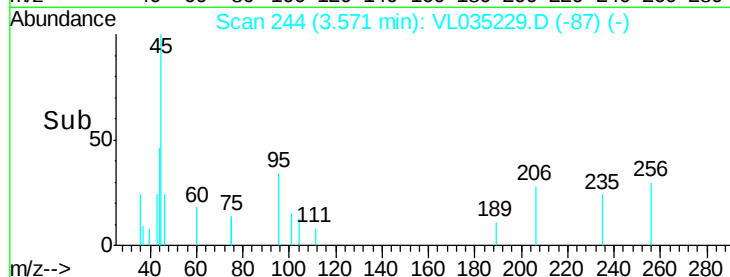
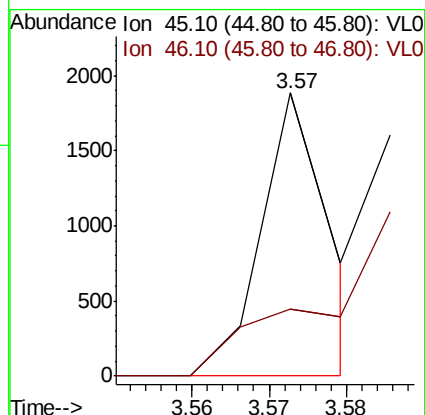
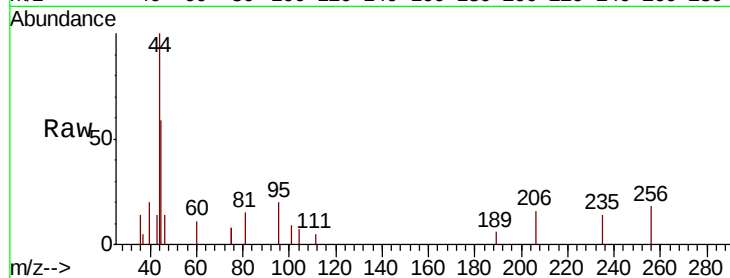
ClientSampleId :

Tot Ion: 45 Resp: 573

Ion Ratio Lower Upper

45 100

46 0.0 16.2 65.0#



#14

Bromoethene

Concen: 0.085 ppbv

RT: 3.70 min Scan# 284

Delta R.T. -0.00 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

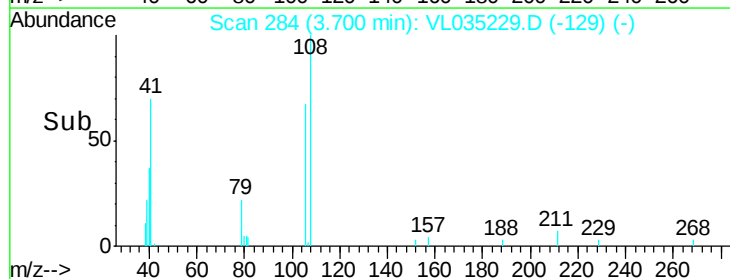
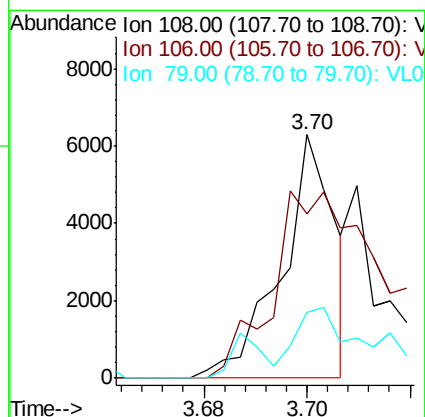
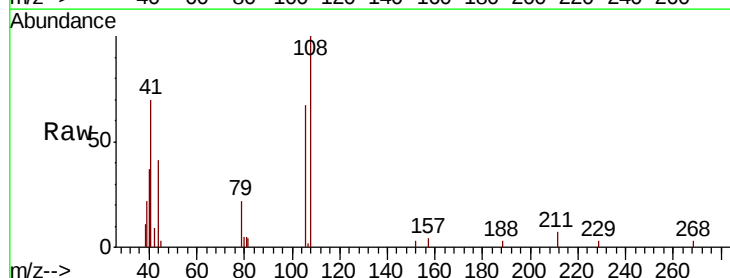
Tgt Ion: 108 Resp: 4468

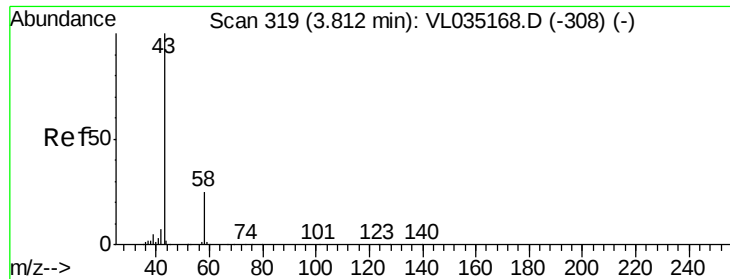
Ion Ratio Lower Upper

108 100

106 166.7 86.2 129.2#

79 51.7 15.0 22.6#

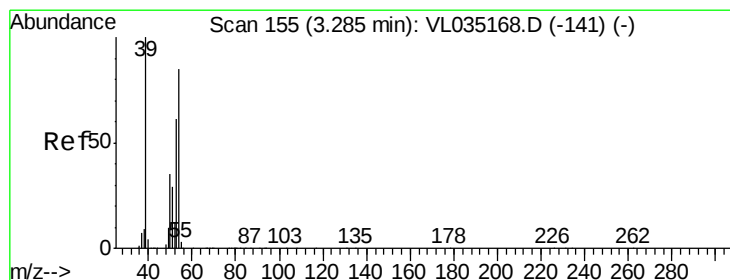
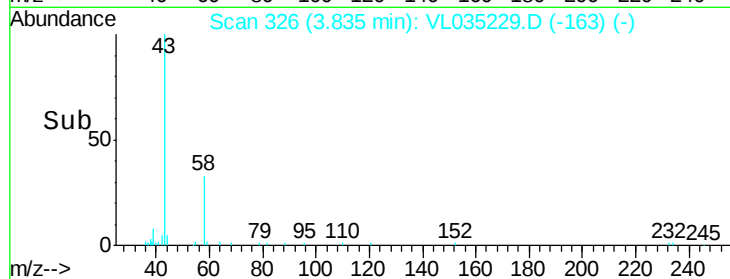
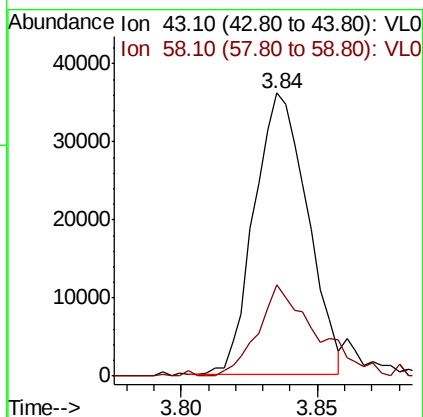
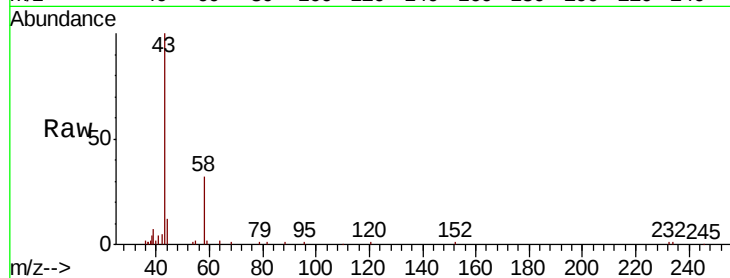




#15
Acetone
Concen: 0.314 ppbv
RT: 3.84 min Scan# 326
Delta R.T. 0.02 min
Lab File: VL035229.D
Acq: 23 Jul 2020 15:10

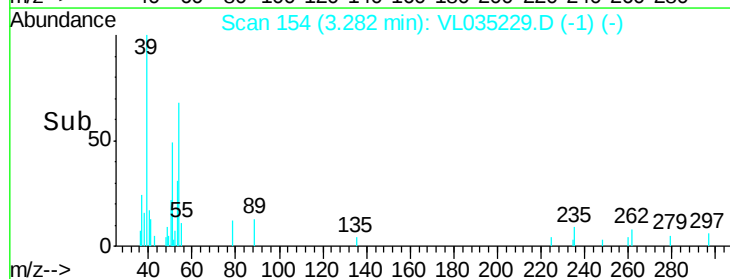
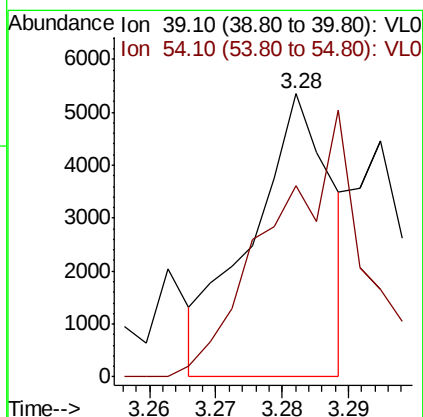
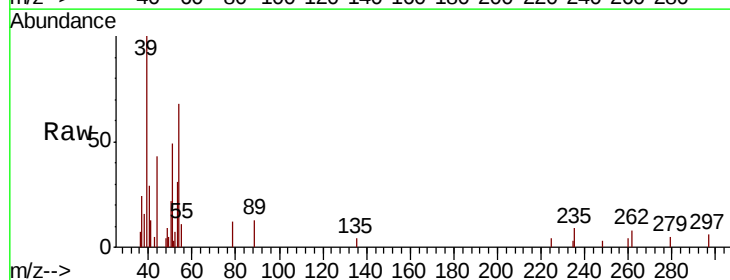
Instrument :
MSVOA_L
ClientSampleId :

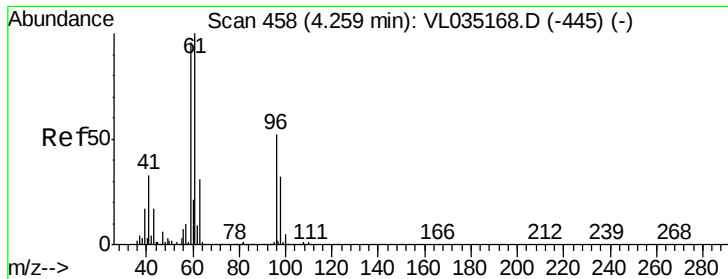
Tot Ion: 43 Resp: 48858
Ion Ratio Lower Upper
43 100
58 36.2 21.3 31.9#



#16
1,3-Butadiene
Concen: 0.075 ppbv
RT: 3.28 min Scan# 154
Delta R.T. -0.00 min
Lab File: VL035229.D
Acq: 23 Jul 2020 15:10

Tgt Ion: 39 Resp: 4465
Ion Ratio Lower Upper
39 100
54 0.0 67.2 100.8#

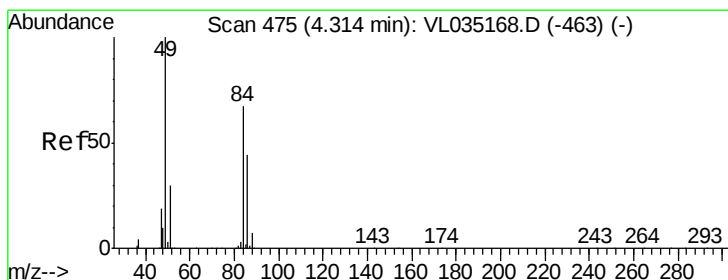
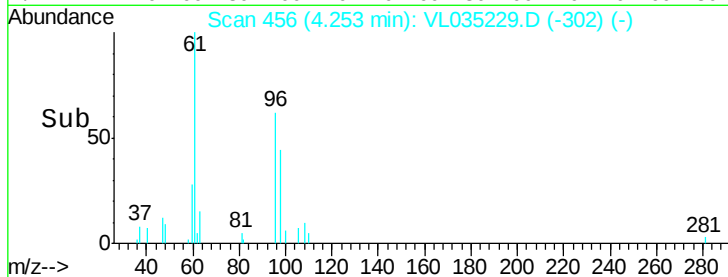
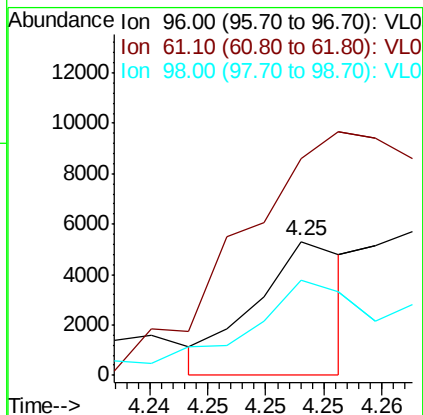
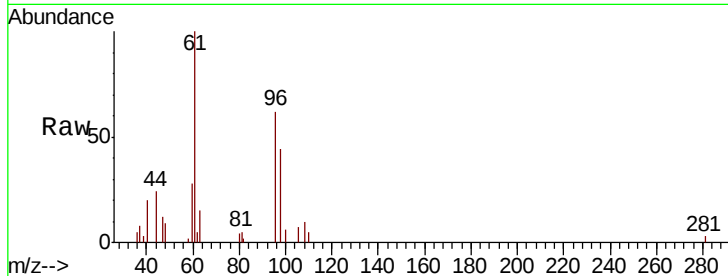




#18
 1,1-Dichloroethene
 Concen: 0.051 ppbv
 RT: 4.25 min Scan# 456
 Delta R.T. -0.01 min
 Lab File: VL035229.D
 Acq: 23 Jul 2020 15:10

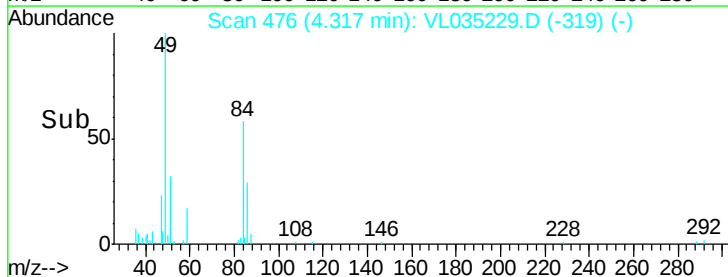
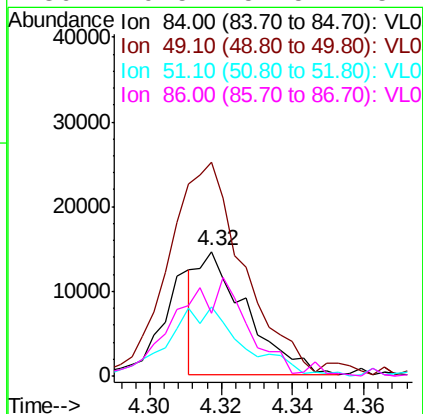
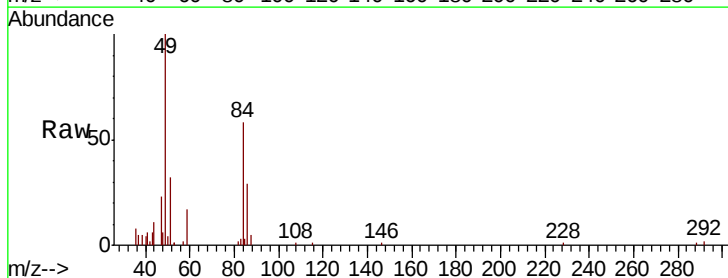
Instrument :
 MSVOA_L
 ClientSampled :

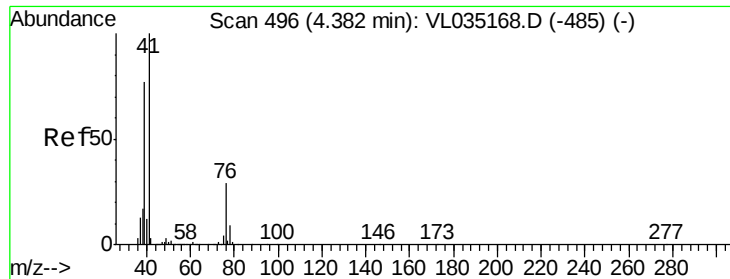
Tot Ion: 96 Resp: 2902
 Ion Ratio Lower Upper
 96 100
 61 174.2 152.9 229.3
 98 62.4 48.7 73.1



#20
 Methylene Chloride
 Concen: 0.204 ppbv
 RT: 4.32 min Scan# 476
 Delta R.T. 0.00 min
 Lab File: VL035229.D
 Acq: 23 Jul 2020 15:10

Tgt Ion: 84 Resp: 13814
 Ion Ratio Lower Upper
 84 100
 49 164.3 119.4 179.0
 51 53.6 36.6 55.0
 86 49.5 52.5 78.7#

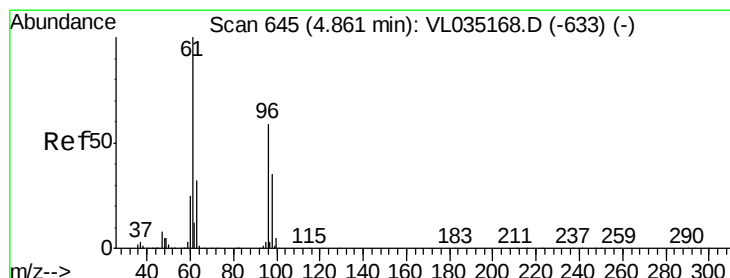
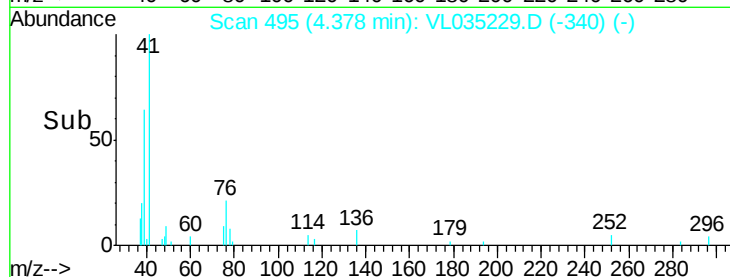
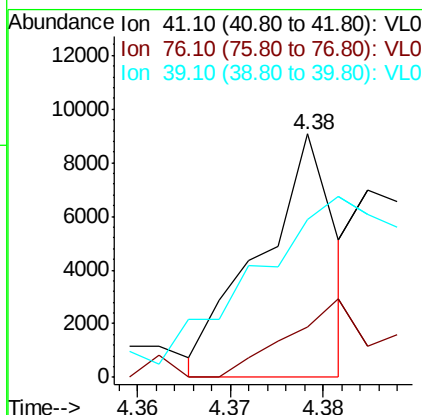
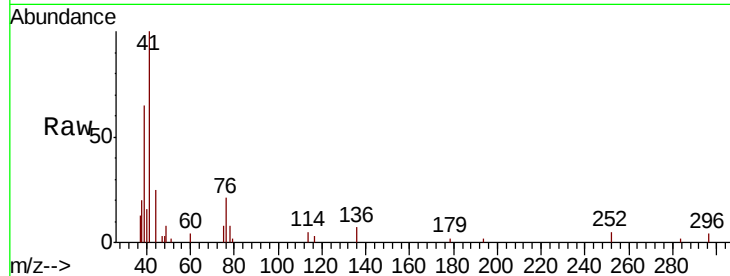




#21
Allvl Chloride
Concen: 0.056 ppbv
RT: 4.38 min Scan# 495
Delta R.T. -0.00 min
Lab File: VL035229.D
Acq: 23 Jul 2020 15:10

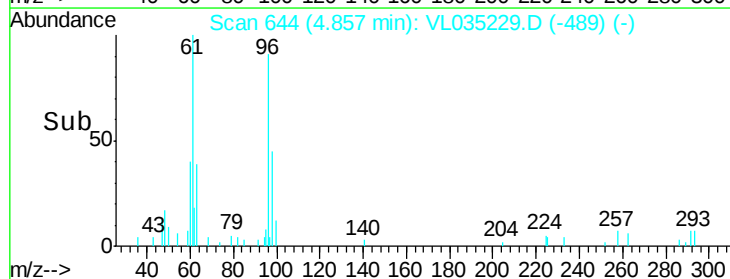
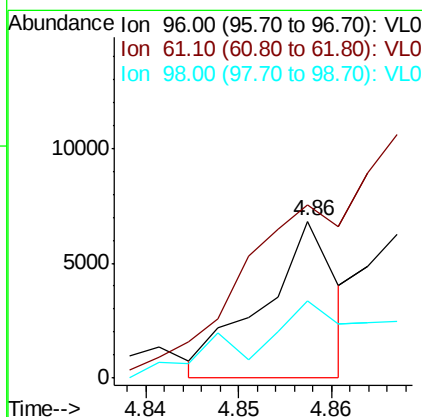
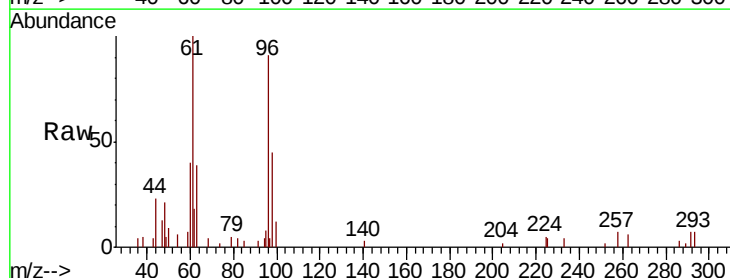
Instrument :
MSVOA_L
ClientSampleId :

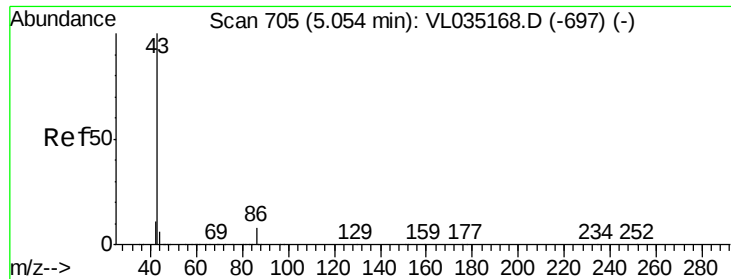
Tot Ion: 41 Resp: 5079
Ion Ratio Lower Upper
41 100
76 0.0 23.5 35.3#
39 0.0 63.4 95.0#



#22
trans-1,2-Dichloroethene
Concen: 0.066 ppbv
RT: 4.86 min Scan# 644
Delta R.T. -0.00 min
Lab File: VL035229.D
Acq: 23 Jul 2020 15:10

Tgt Ion: 96 Resp: 3705
Ion Ratio Lower Upper
96 100
61 98.1 136.5 204.7#
98 45.4 47.5 71.3#





#23

Vinyl Acetate

Concen: 0.036 ppbv

RT: 5.06 min Scan# 706

Delta R.T. 0.00 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Instrument :

MSVOA_L

ClientSampled :

Tot Ion: 43 Resp: 6123

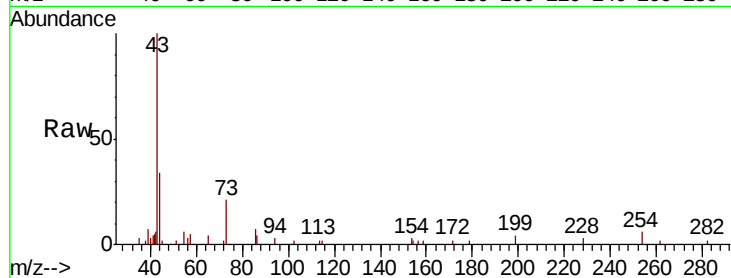
Ion Ratio Lower Upper

43 100

86 0.8 6.2 9.2#

42 0.0 9.1 13.7#

44 42.5 4.6 6.8#

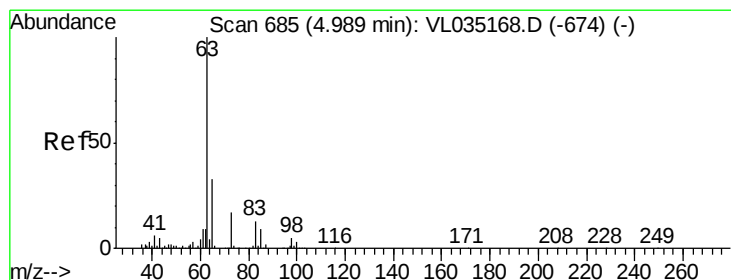
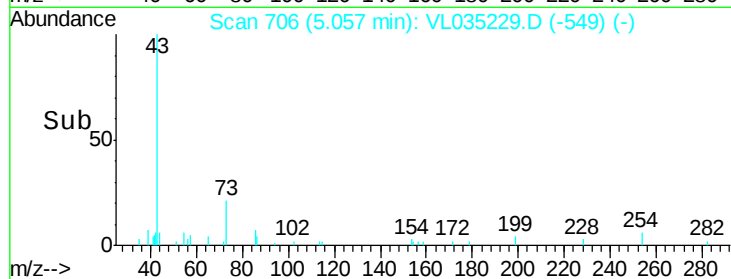
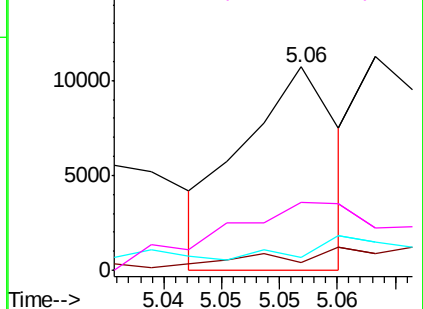


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.132 ppbv

RT: 4.99 min Scan# 684

Delta R.T. -0.00 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

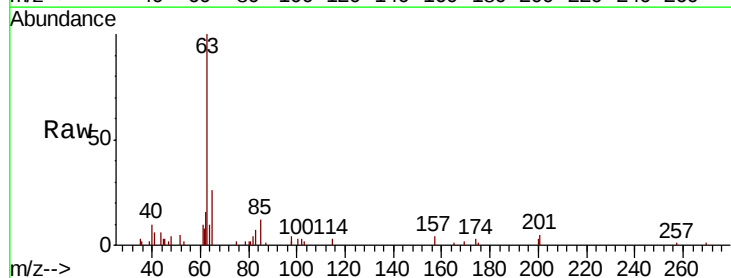
Tgt Ion: 63 Resp: 19143

Ion Ratio Lower Upper

63 100

98 3.6 2.4 7.1

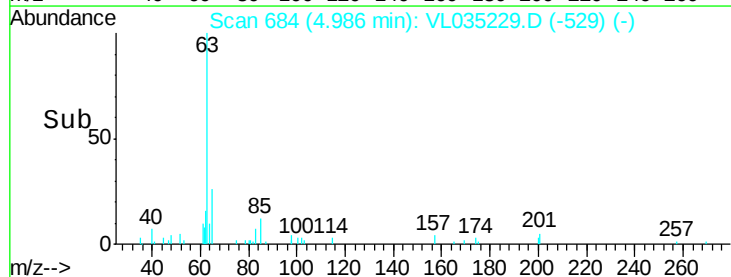
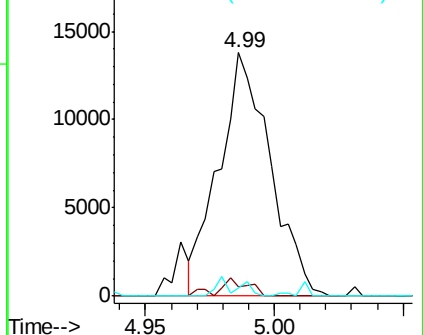
100 3.2 1.4 4.0

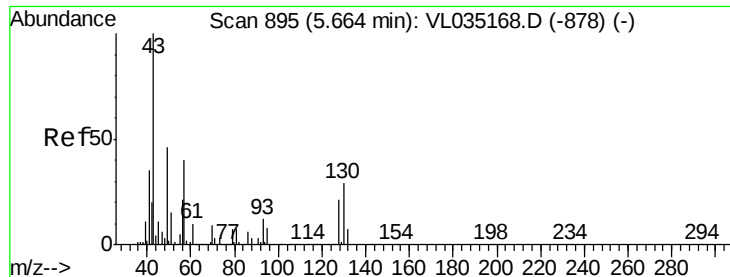


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.107 ppbv

RT: 5.67 min Scan# 897

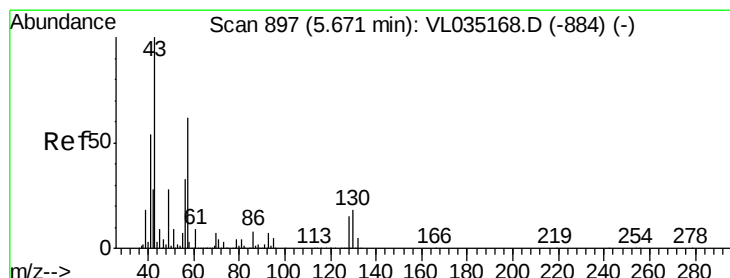
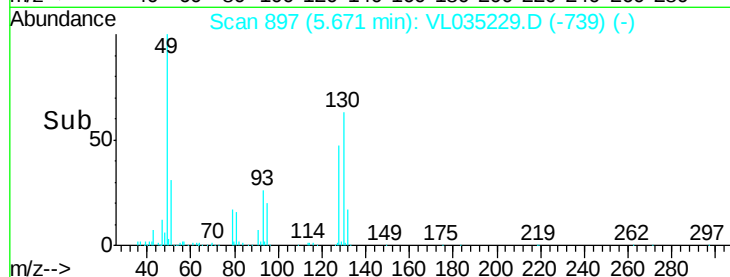
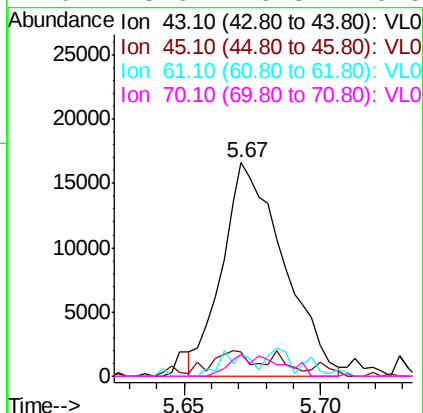
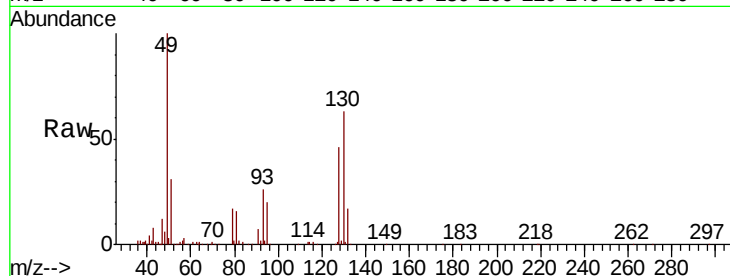
Delta R.T. 0.01 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	43	Resp:	25867
Ion	Ratio	Lower	Upper
43	100		
45	14.8	8.5	12.7#
61	12.8	8.1	12.1#
70	8.6	6.3	9.5



#26

Hexane

Concen: 0.061 ppbv

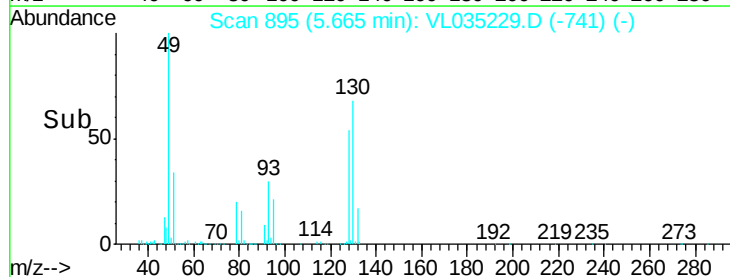
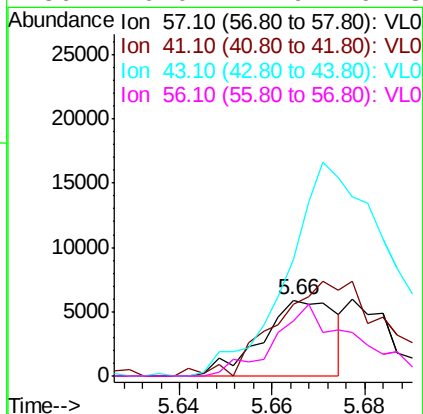
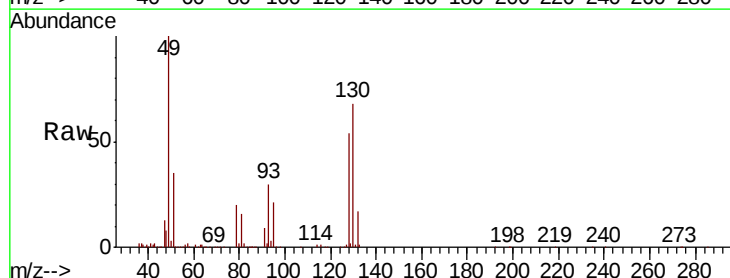
RT: 5.66 min Scan# 895

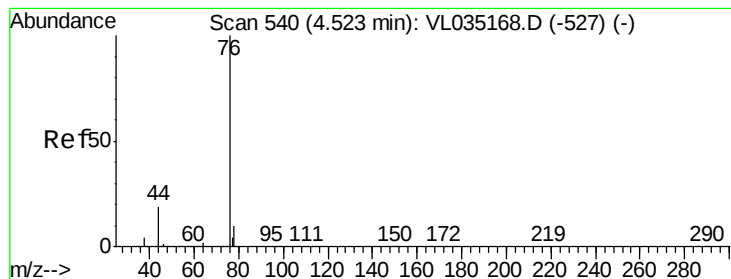
Delta R.T. -0.01 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Tgt Ion:	57	Resp:	6508
Ion	Ratio	Lower	Upper
57	100		
41	190.4	72.9	109.3#
43	420.4	179.5	269.3#
56	110.0	42.9	64.3#





#27

Carbon Disulfide

Concen: 0.134 ppbv

RT: 4.53 min Scan# 541

Delta R.T. 0.00 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Instrument :

MSVOA_L

ClientSampleId :

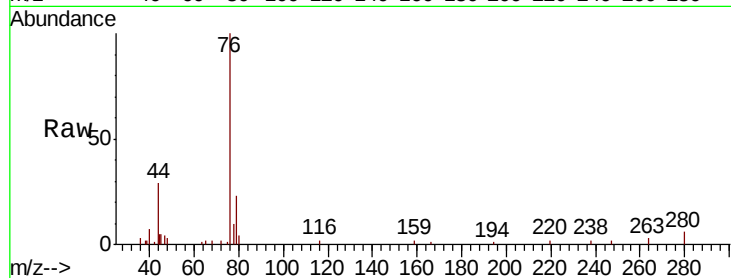
Tot Ion: 76 Resp: 19923

Ion Ratio Lower Upper

76 100

44 36.6 14.9 22.3#

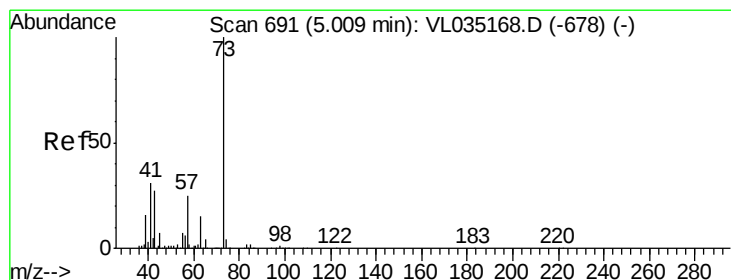
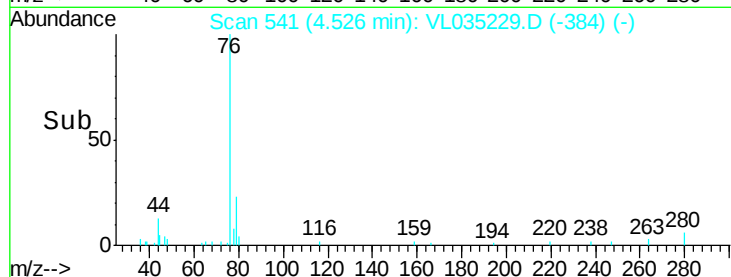
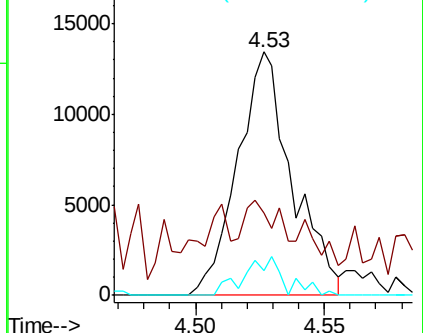
78 12.0 7.5 11.3#



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

Methyl tert-Butyl Ether

Concen: 0.045 ppbv

RT: 5.03 min Scan# 697

Delta R.T. 0.02 min

Lab File: VL035229.D

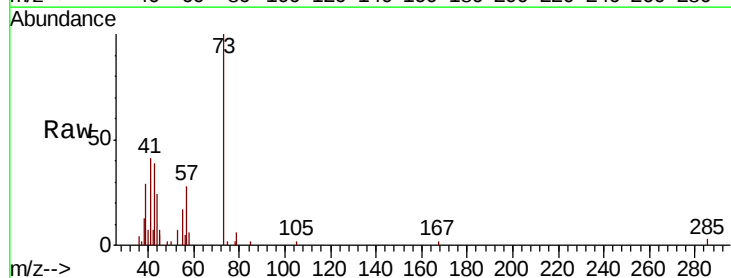
Acq: 23 Jul 2020 15:10

Tgt Ion: 73 Resp: 7223

Ion Ratio Lower Upper

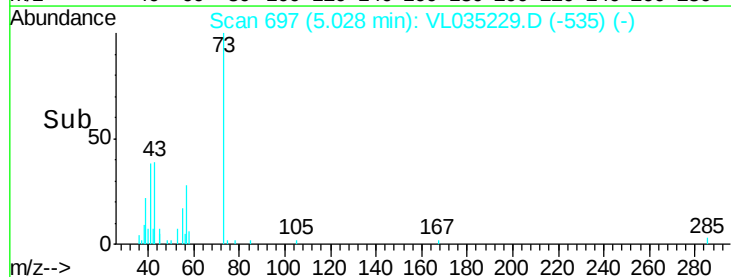
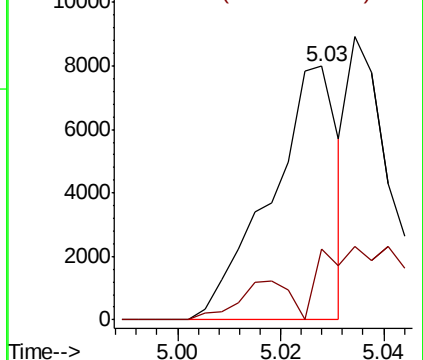
73 100

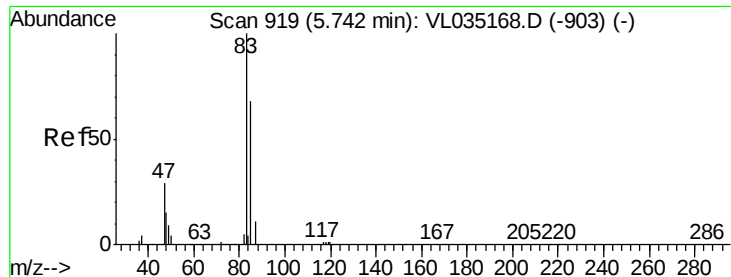
57 0.0 18.1 27.1#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

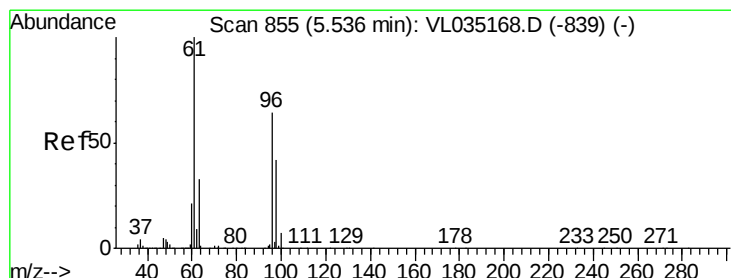
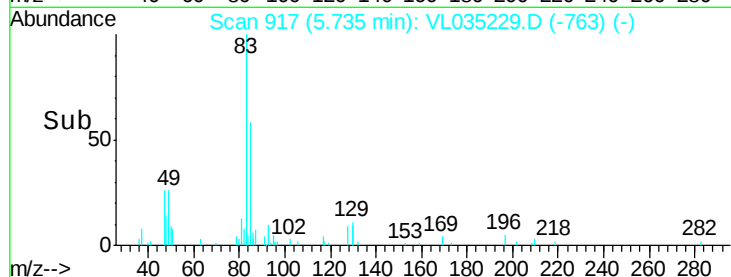
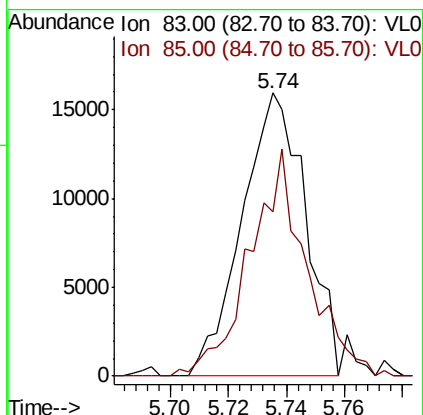
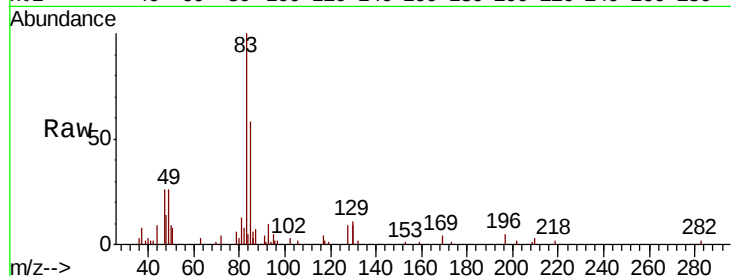




#29
Chloroform
Concen: 0.136 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.01 min
Lab File: VL035229.D
Acq: 23 Jul 2020 15:10

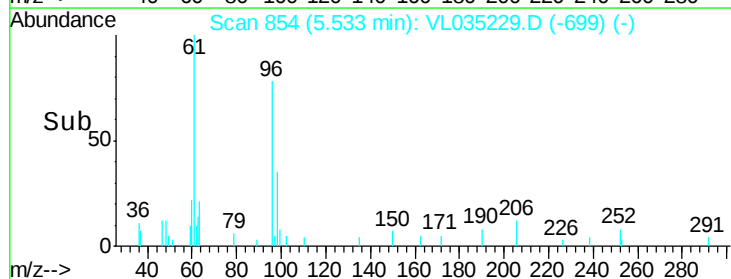
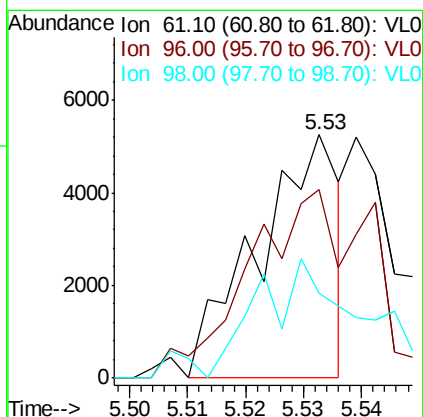
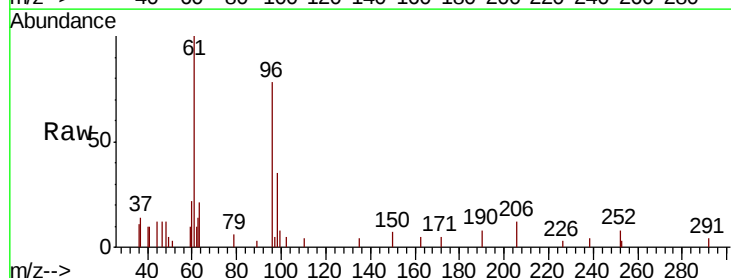
Instrument :
MSVOA_L
ClientSampleId :

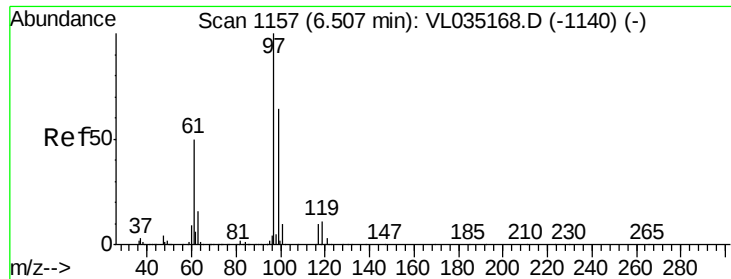
Tot Ion: 83 Resp: 24216
Ion Ratio Lower Upper
83 100
85 56.6 54.3 81.5



#31
cis-1,2-Dichloroethene
Concen: 0.051 ppbv
RT: 5.53 min Scan# 854
Delta R.T. -0.00 min
Lab File: VL035229.D
Acq: 23 Jul 2020 15:10

Tgt Ion: 61 Resp: 5116
Ion Ratio Lower Upper
61 100
96 62.1 51.3 76.9
98 24.3 33.8 50.8#





#32

1,1,1-Trichloroethane

Concen: 0.059 ppbv

RT: 6.50 min Scan# 1155

Delta R.T. -0.01 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Instrument :

MSVOA_L

ClientSampled :

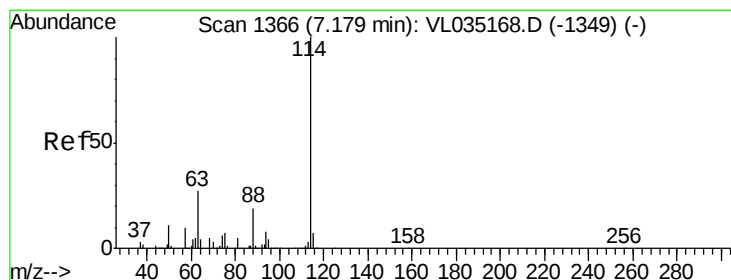
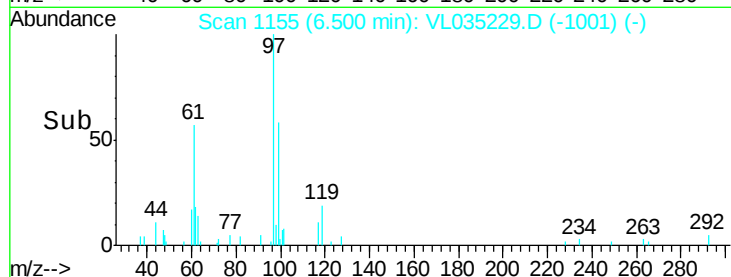
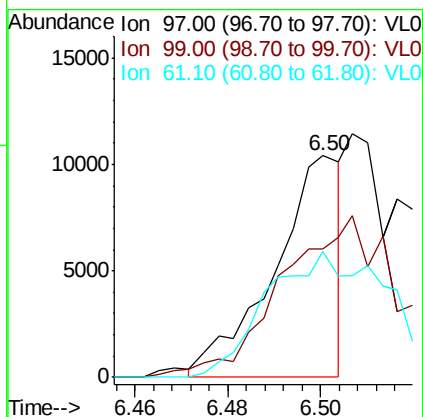
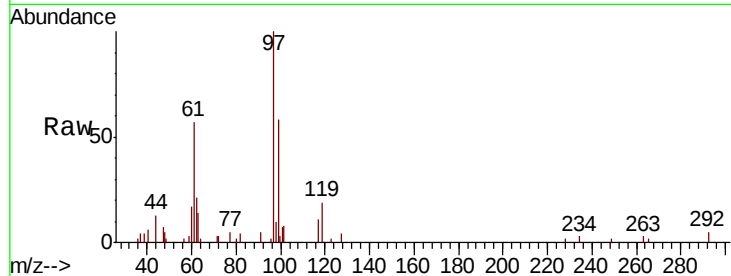
Tot Ion: 97 Resp: 10500

Ion Ratio Lower Upper

97 100

99 0.0 51.2 76.8#

61 103.7 40.9 61.3#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

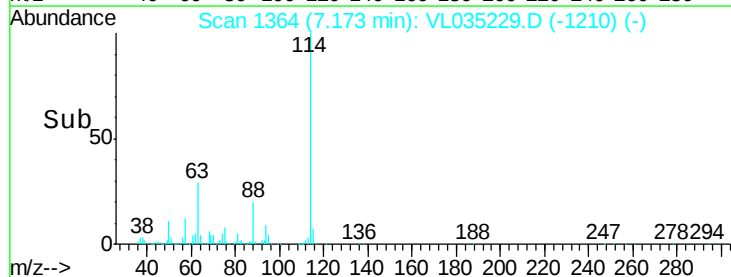
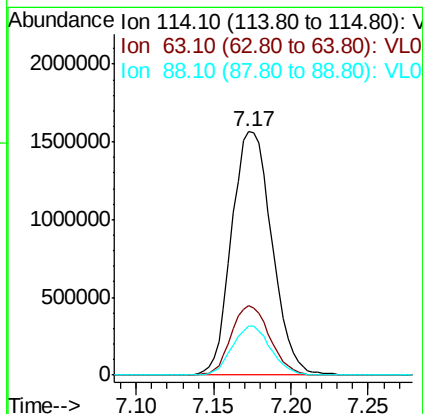
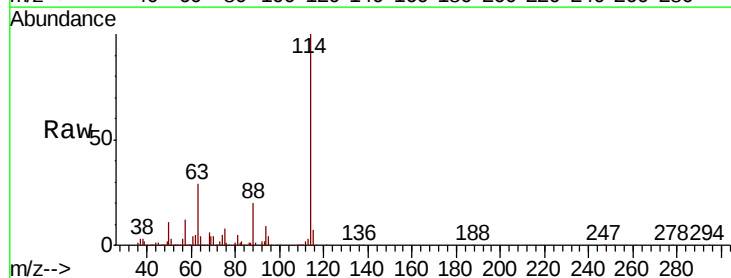
Tgt Ion: 114 Resp: 2832380

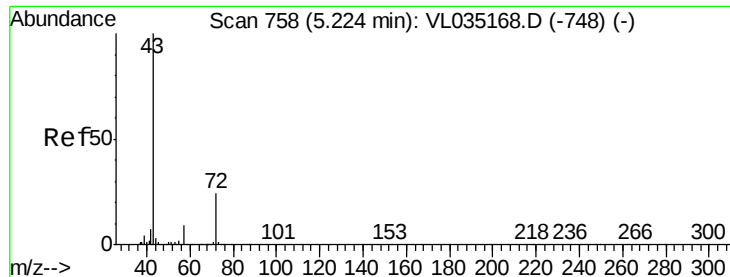
Ion Ratio Lower Upper

114 100

63 27.6 22.0 33.0

88 19.3 15.4 23.0

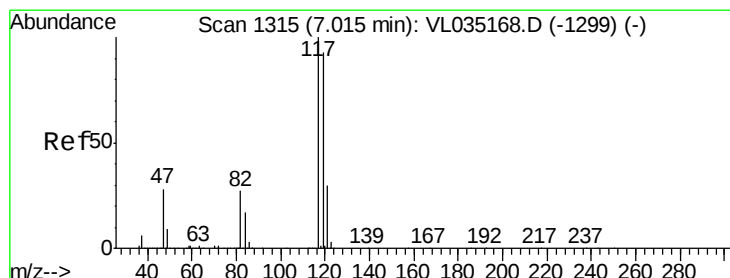
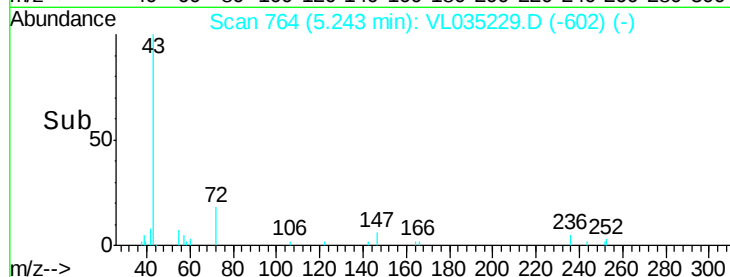
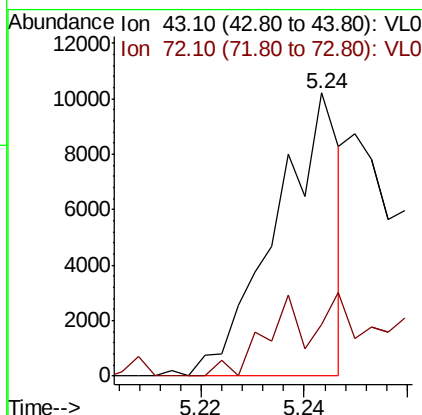
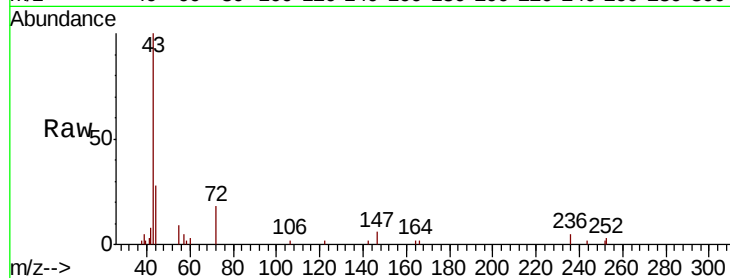




#34
2-Butanone
Concen: 0.058 ppbv
RT: 5.24 min Scan# 764
Delta R.T. 0.02 min
Lab File: VL035229.D
Acq: 23 Jul 2020 15:10

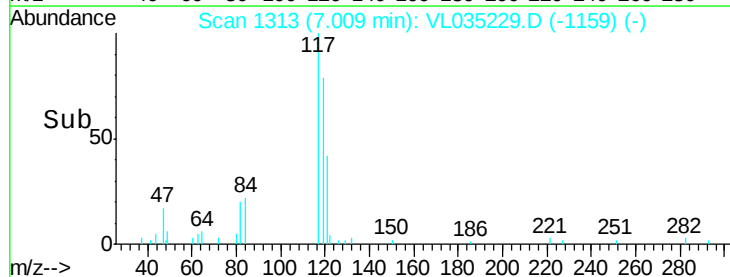
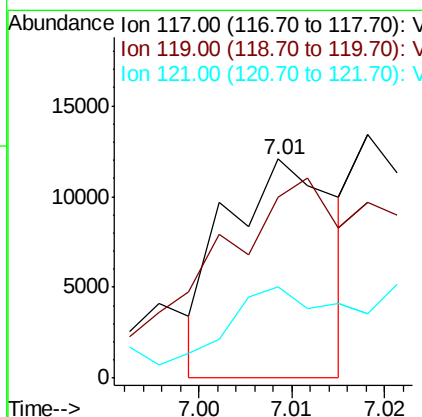
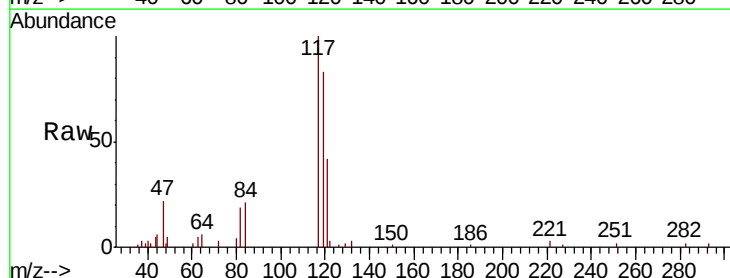
Instrument :
MSVOA_L
ClientSampled :

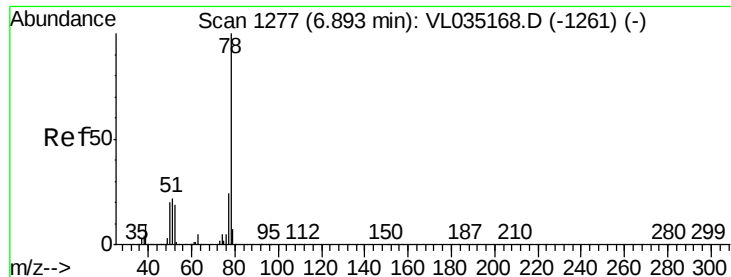
Tot Ion: 43 Resp: 8785
Ion Ratio Lower Upper
43 100
72 0.0 18.6 28.0#



#35
Carbon Tetrachloride
Concen: 0.053 ppbv
RT: 7.01 min Scan# 1313
Delta R.T. -0.01 min
Lab File: VL035229.D
Acq: 23 Jul 2020 15:10

Tgt Ion: 117 Resp: 9771
Ion Ratio Lower Upper
117 100
119 59.9 74.8 112.2#
121 42.9 24.2 36.2#





#36

Benzene

Concen: 0.047 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Instrument :

MSVOA_L

ClientSampleId :

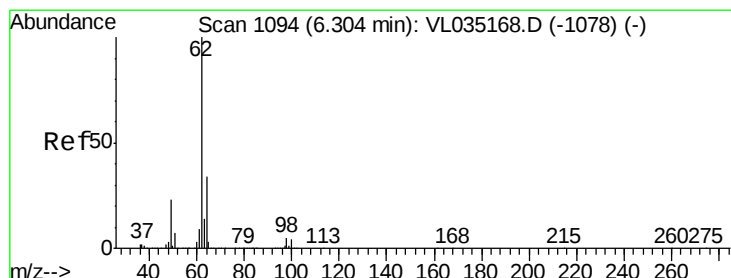
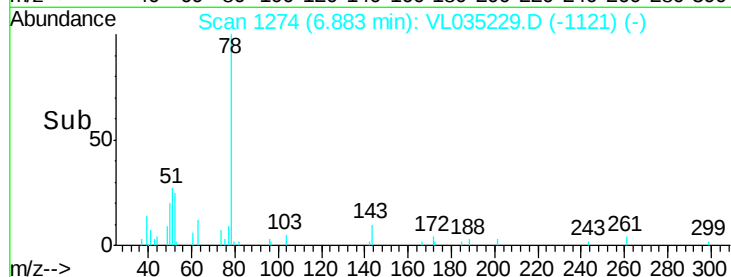
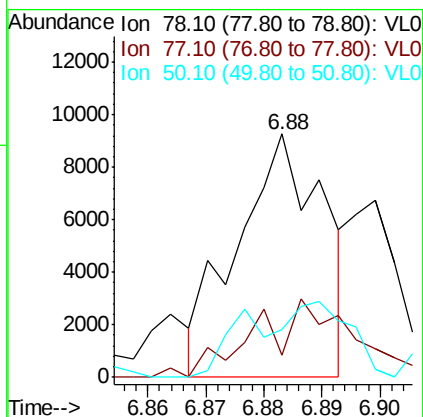
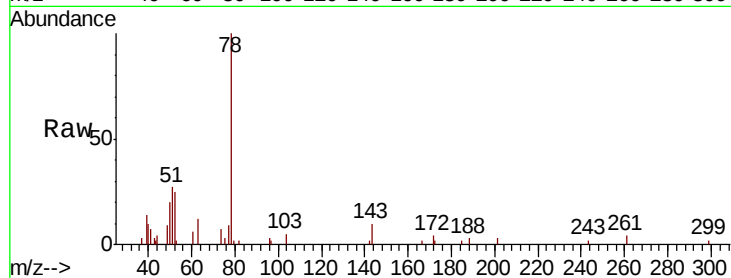
Tot Ion: 78 Resp: 9578

Ion Ratio Lower Upper

78 100

77 11.6 19.3 28.9#

50 8.0 16.0 24.0#



#37

1,2-Dichloroethane

Concen: 0.114 ppbv

RT: 6.29 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VL035229.D

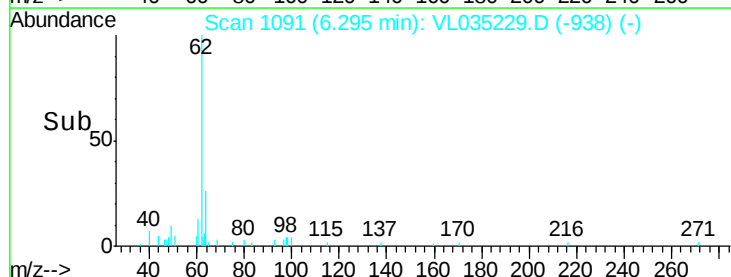
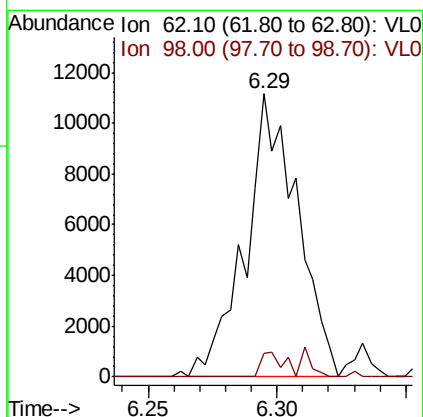
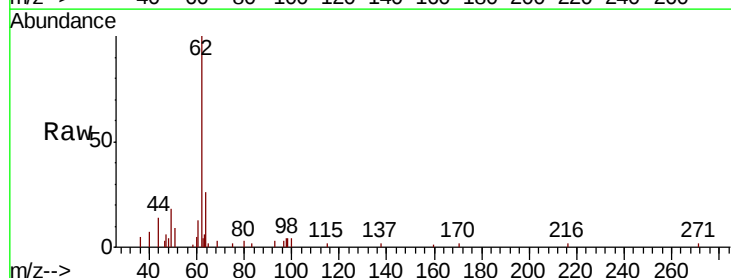
Acq: 23 Jul 2020 15:10

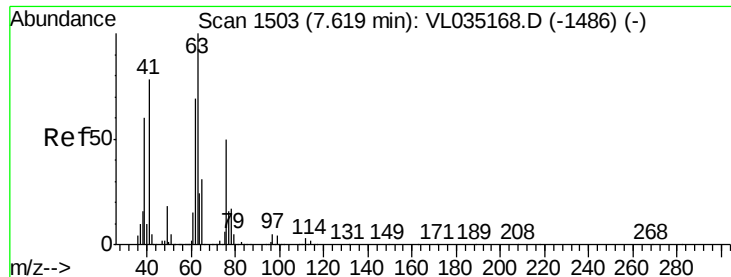
Tgt Ion: 62 Resp: 15641

Ion Ratio Lower Upper

62 100

98 6.1 4.6 6.8

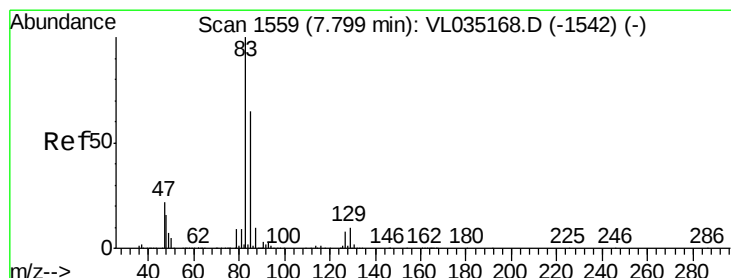
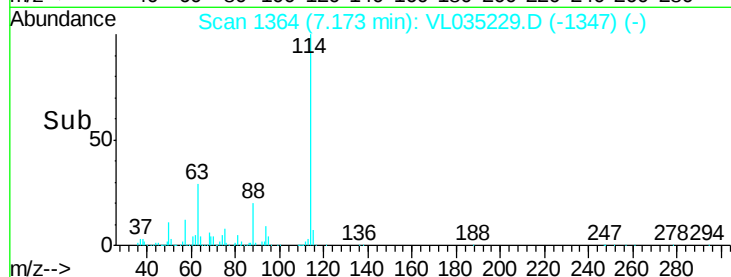
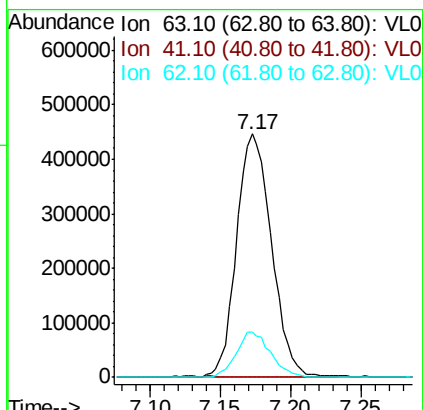
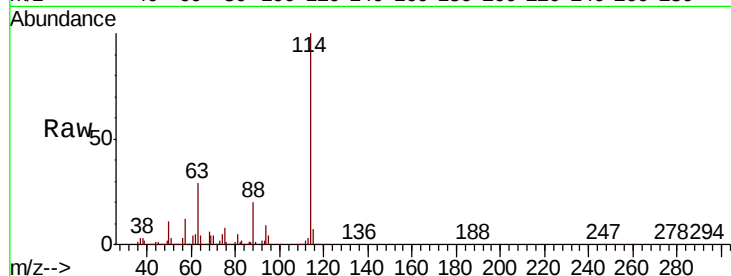




#39
 1,2-Dichloropropane
 Concen: 9.528 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.45 min
 Lab File: VL035229.D
 Acq: 23 Jul 2020 15:10

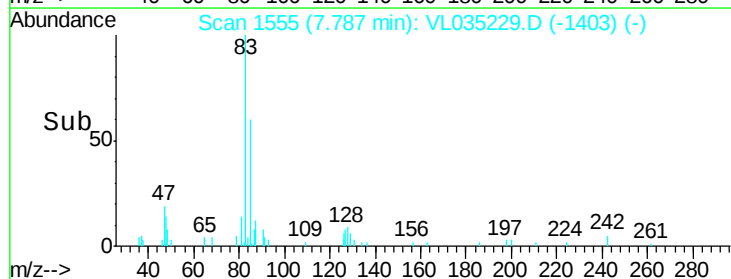
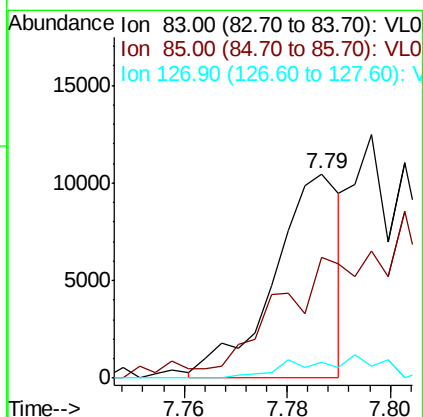
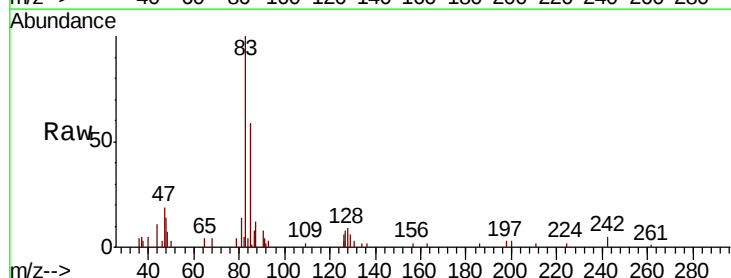
Instrument :
 MSVOA_L
 ClientSampleId :

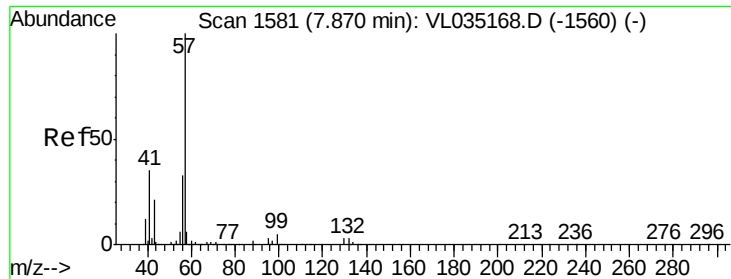
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.1	62.6	94.0#
62	18.3	55.0	82.6#



#42
 Bromodichloromethane
 Concen: 0.051 ppbv
 RT: 7.79 min Scan# 1555
 Delta R.T. -0.01 min
 Lab File: VL035229.D
 Acq: 23 Jul 2020 15:10

Tgt Ion	Ratio	Lower	Upper
83	100		
85	56.0	52.2	78.4
127	7.8	6.3	9.5





#44

2,2,4-Trimethylpentane

Concen: 0.031 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Instrument :

MSVOA_L

ClientSampled :

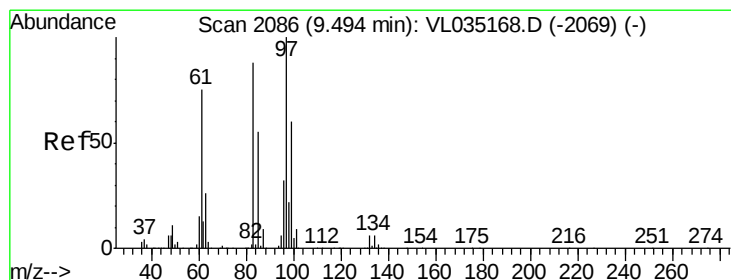
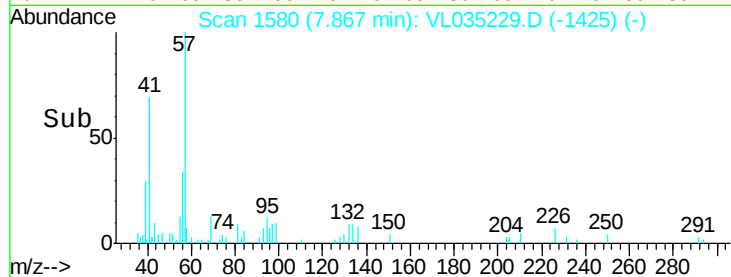
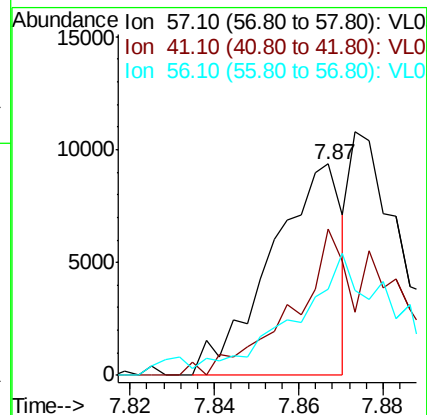
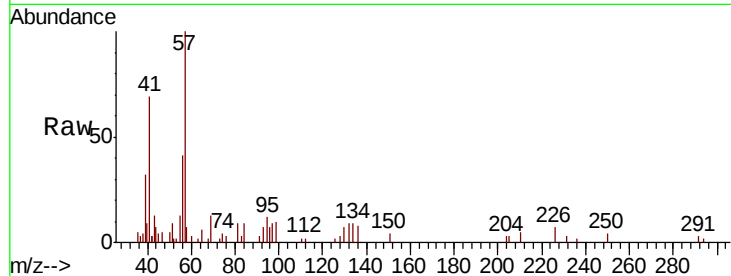
Tot Ion: 57 Resp: 10982

Ion Ratio Lower Upper

57 100

41 102.5 27.0 40.6#

56 0.0 25.5 38.3#



#47

1,1,2-Trichloroethane

Concen: 0.053 ppbv

RT: 9.49 min Scan# 2084

Delta R.T. -0.01 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Tgt Ion: 97 Resp: 4715

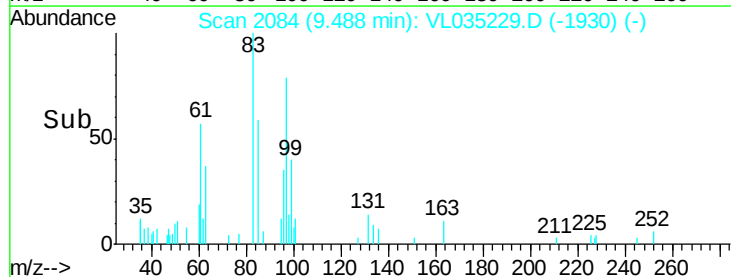
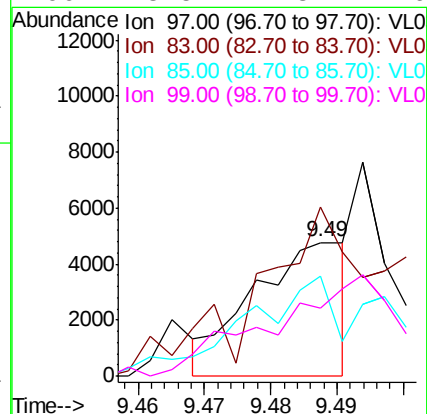
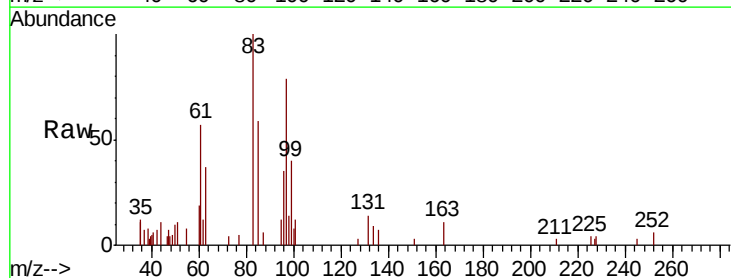
Ion Ratio Lower Upper

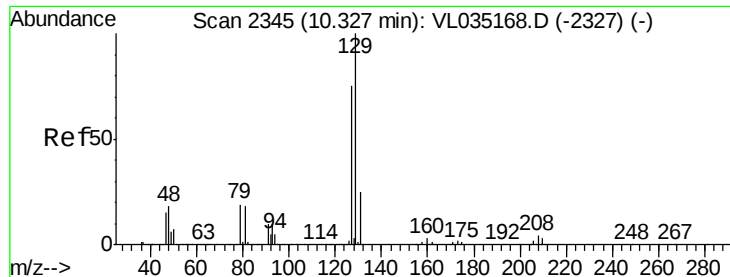
97 100

83 126.8 70.3 105.5#

85 82.8 44.3 66.5#

99 48.5 47.8 71.6





#48

Dibromochloromethane

Concen: 0.039 ppbv

RT: 10.32 min Scan# 2342

Delta R.T. -0.01 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Instrument :

MSVOA_L

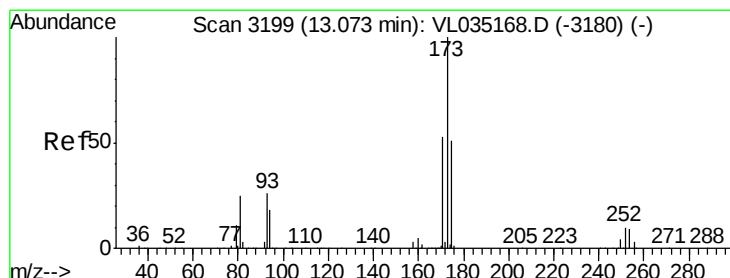
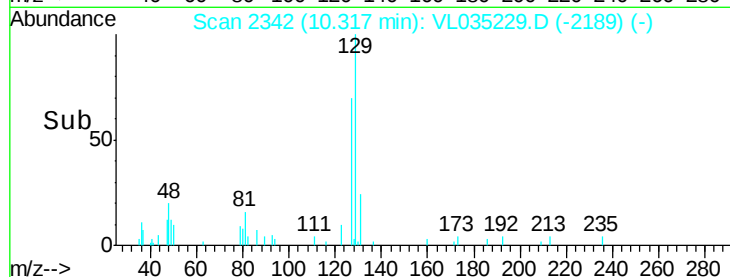
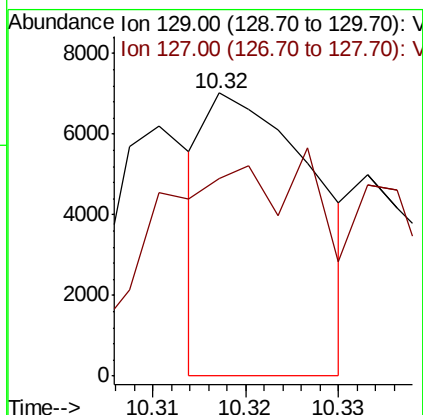
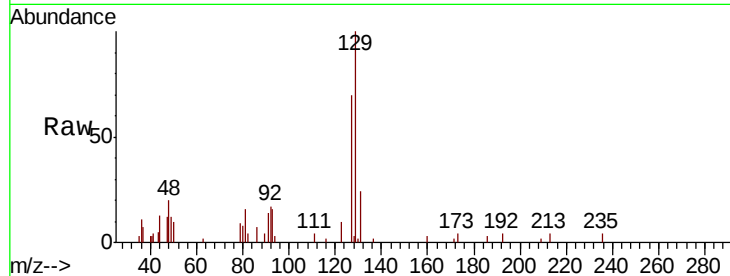
ClientSampled :

Tot Ion:129 Resp: 5655

Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.3#



#49

Bromoform

Concen: 0.049 ppbv

RT: 13.06 min Scan# 3196

Delta R.T. -0.01 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

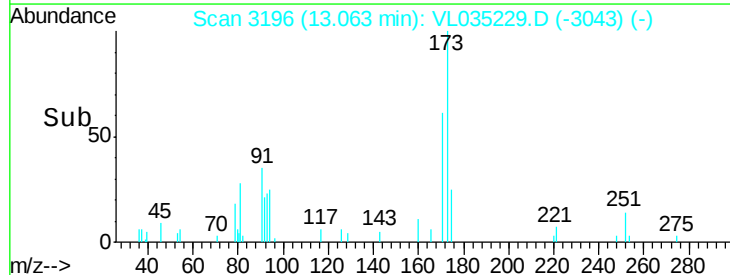
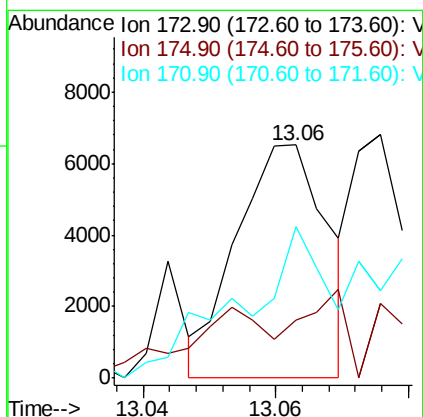
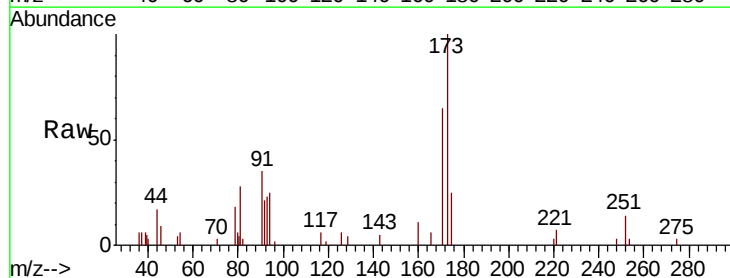
Tgt Ion:173 Resp: 6183

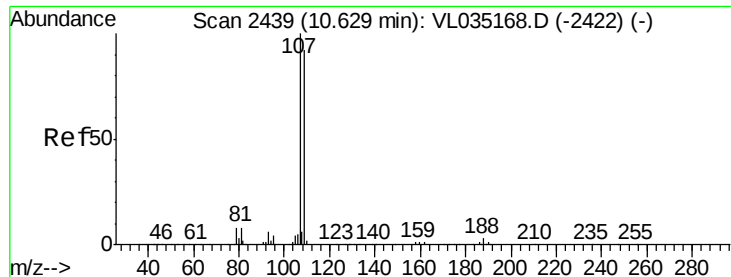
Ion Ratio Lower Upper

173 100

175 0.0 39.7 59.5#

171 111.2 41.6 62.4#





#54

1,2-Dibromoethane

Concen: 0.087 ppbv

RT: 10.63 min Scan# 2439

Delta R.T. 0.00 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Instrument :

MSVOA_L

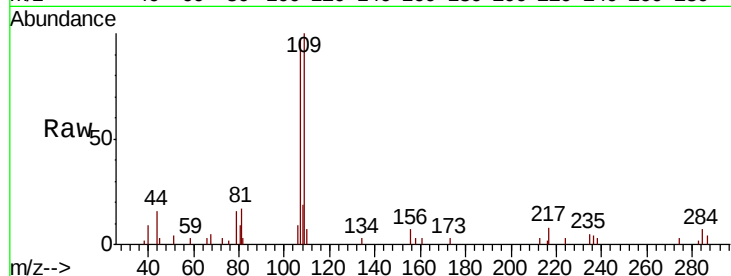
ClientSampleId :

Tot Ion:107 Resp: 11506

Ion Ratio Lower Upper

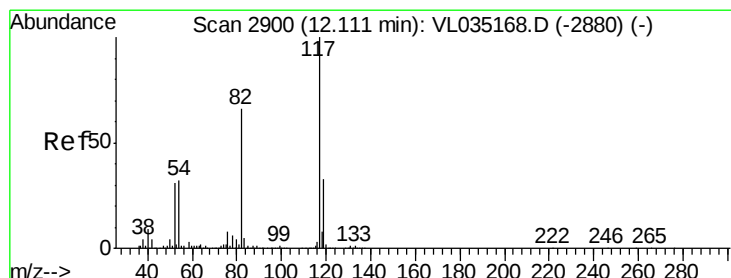
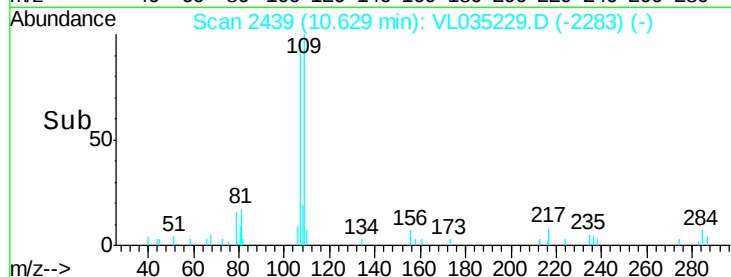
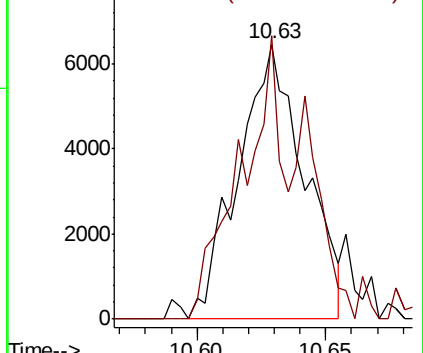
107 100

109 103.2 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# 2900

Delta R.T. 0.00 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

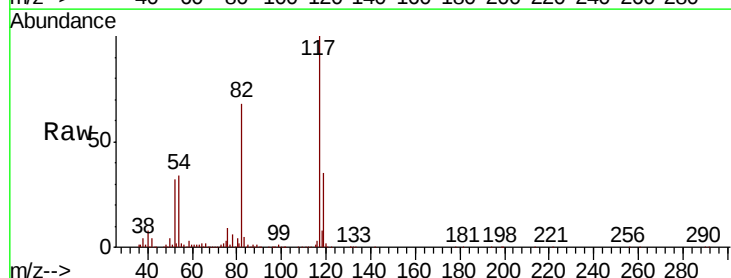
Tgt Ion:117 Resp: 2613436

Ion Ratio Lower Upper

117 100

82 68.2 52.3 78.5

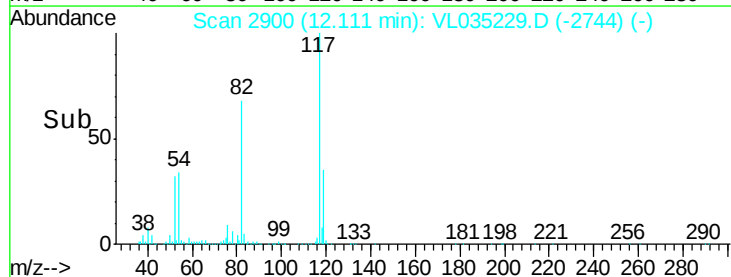
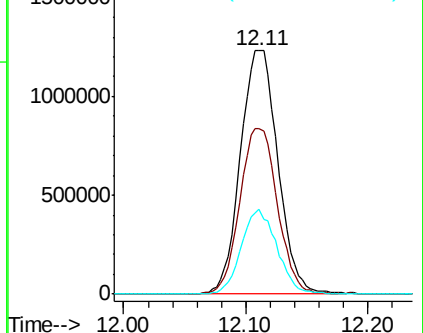
119 33.3 24.9 37.3

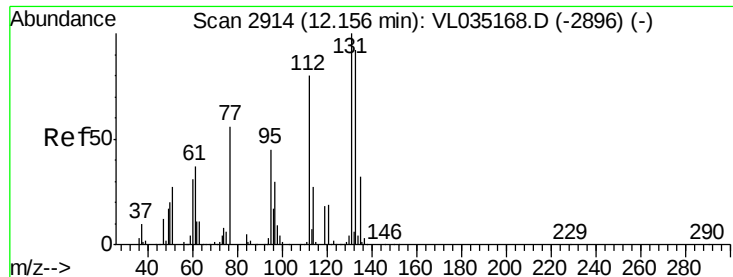


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

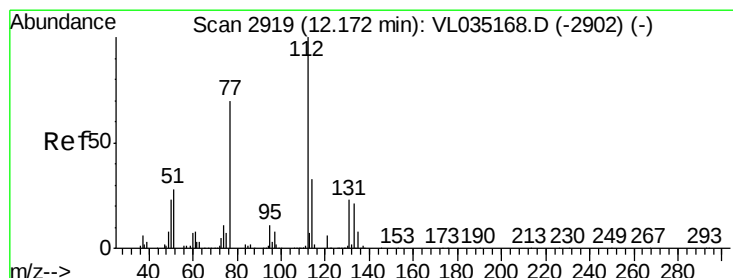
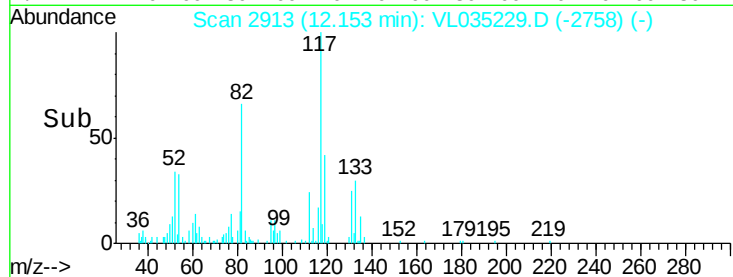
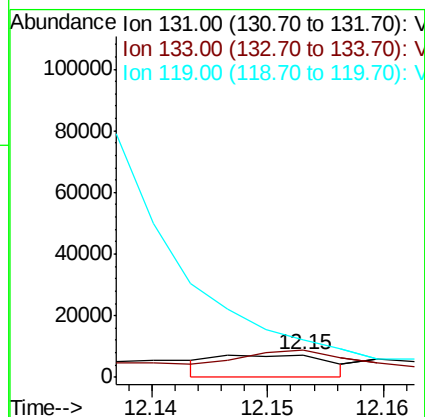
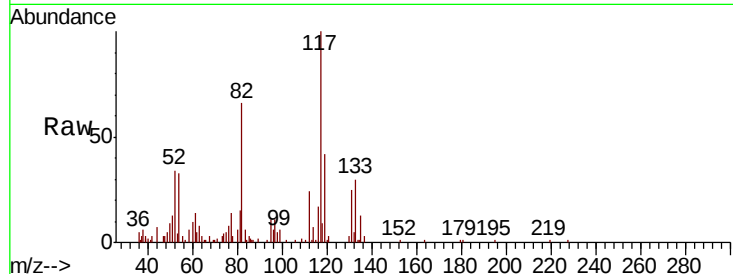




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.042 ppbv
 RT: 12.15 min Scan# 2913
 Delta R.T. -0.00 min
 Lab File: VL035229.D
 Acq: 23 Jul 2020 15:10

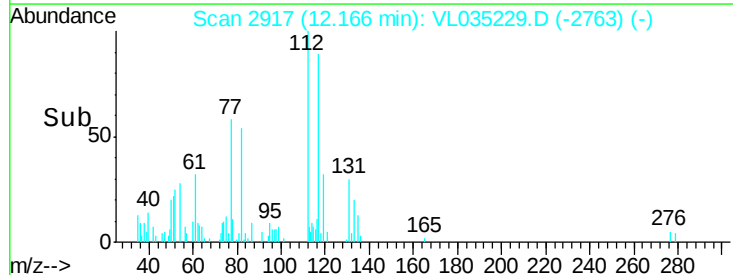
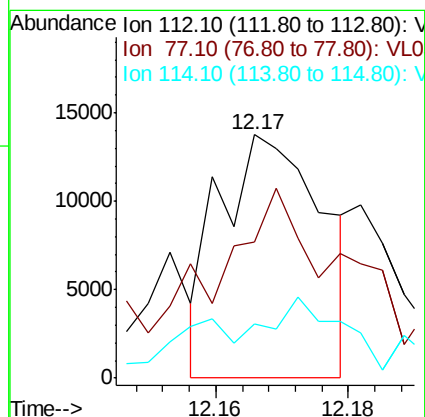
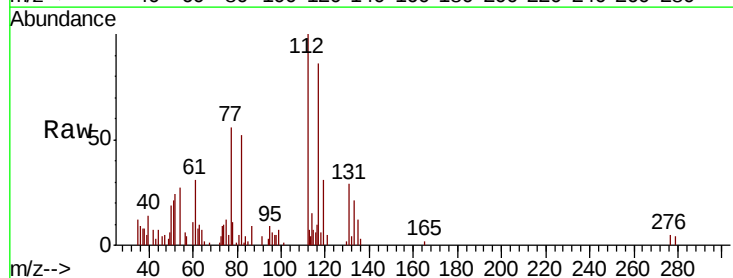
Instrument :
 MSVOA_L
 ClientSampled :

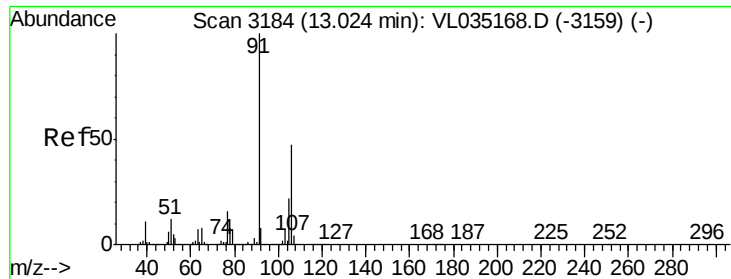
Tot Ion:131 Resp: 4909
 Ion Ratio Lower Upper
 131 100
 133 295.5 75.4 113.2#
 119 0.0 42.4 63.6#



#57
 Chlorobenzene
 Concen: 0.077 ppbv
 RT: 12.17 min Scan# 2917
 Delta R.T. -0.01 min
 Lab File: VL035229.D
 Acq: 23 Jul 2020 15:10

Tgt Ion:112 Resp: 14878
 Ion Ratio Lower Upper
 112 100
 77 12.2 57.0 85.4#
 114 0.9 30.2 37.0#





#59

m/p-Xylene

Concen: 0.031 ppbv

RT: 13.02 min Scan# 3184

Delta R.T. 0.00 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Instrument :

MSVOA_L

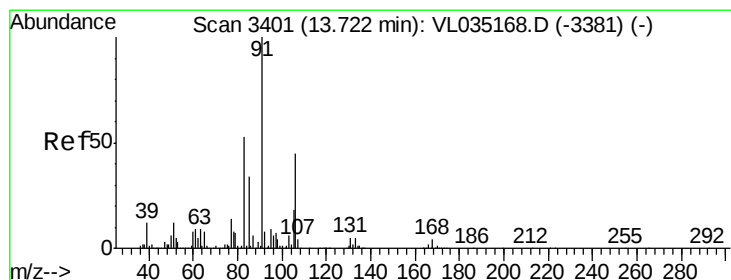
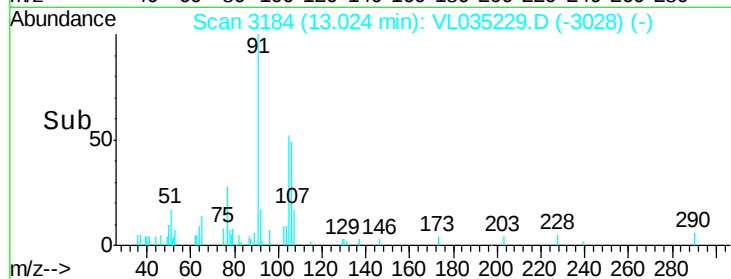
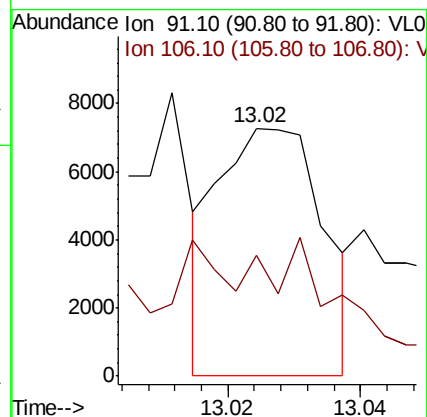
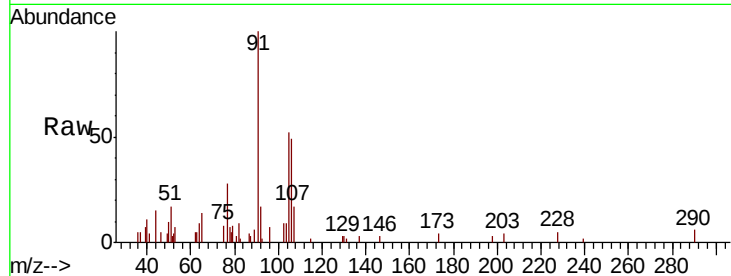
ClientSampleId :

Tot Ion: 91 Resp: 8009

Ion Ratio Lower Upper

91 100

106 83.5 36.2 54.2#



#60

o-Xylene

Concen: 0.048 ppbv

RT: 13.72 min Scan# 3400

Delta R.T. -0.00 min

Lab File: VL035229.D

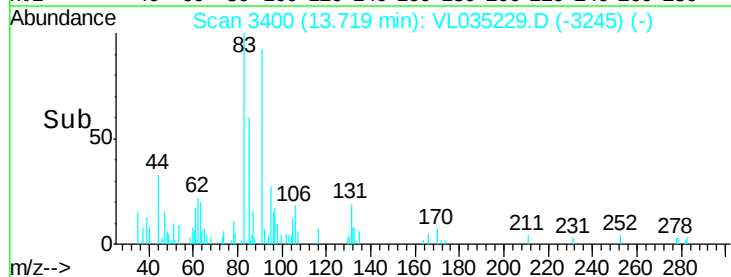
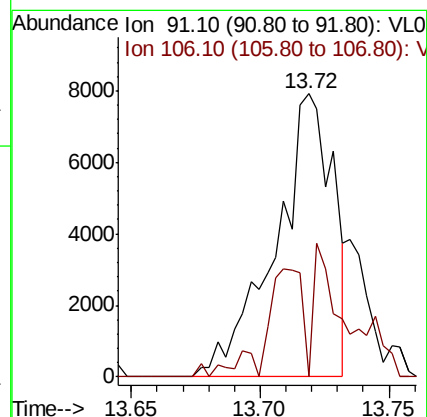
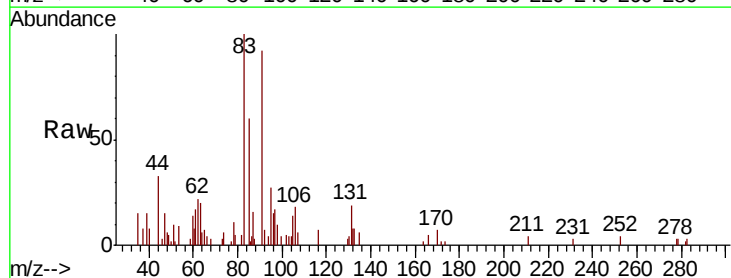
Acq: 23 Jul 2020 15:10

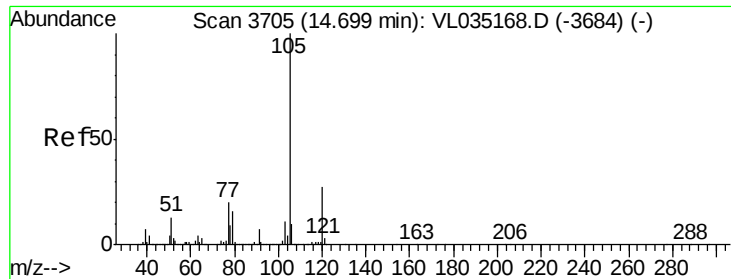
Tgt Ion: 91 Resp: 12331

Ion Ratio Lower Upper

91 100

106 51.2 22.1 66.3





#62

Isopropylbenzene

Concen: 0.060 ppbv

RT: 14.70 min Scan# 3704

Delta R.T. -0.00 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Instrument :

MSVOA_L

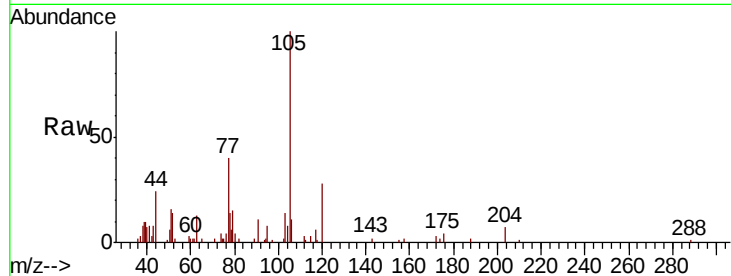
ClientSampleId :

Tot Ion:105 Resp: 22741

Ion Ratio Lower Upper

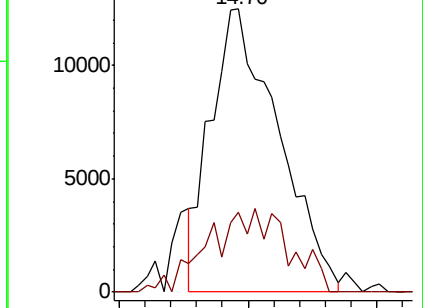
105 100

120 34.6 20.7 31.1#

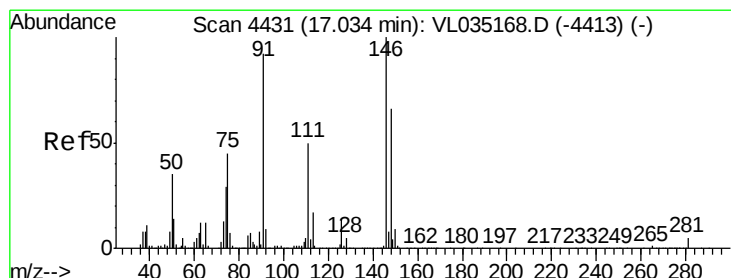
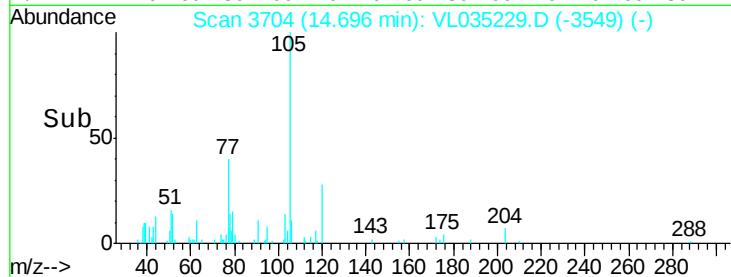


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



Time--> 14.65 14.70 14.75



#66

Benzyl Chloride

Concen: 0.047 ppbv

RT: 17.04 min Scan# 4433

Delta R.T. 0.01 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

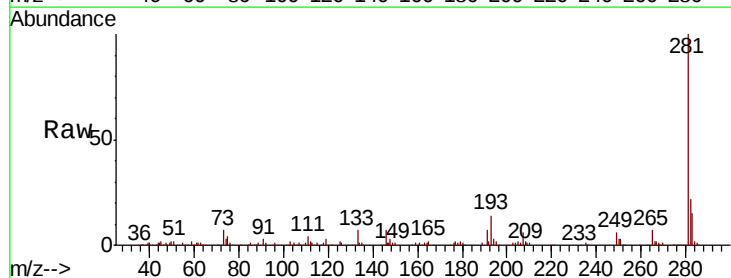
Tgt Ion: 91 Resp: 5678

Ion Ratio Lower Upper

91 100

126 61.4 13.9 20.9#

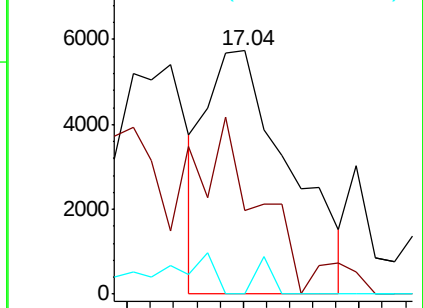
128 21.8 4.2 6.4#



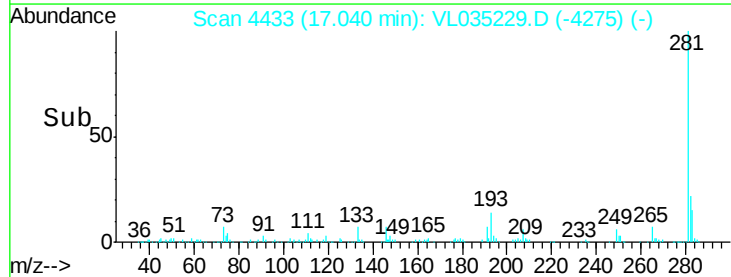
Abundance Ion 91.10 (90.80 to 91.80): VL0

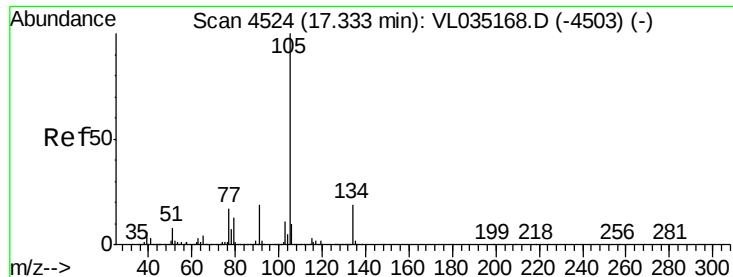
Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V



Time--> 17.02 17.04 17.06

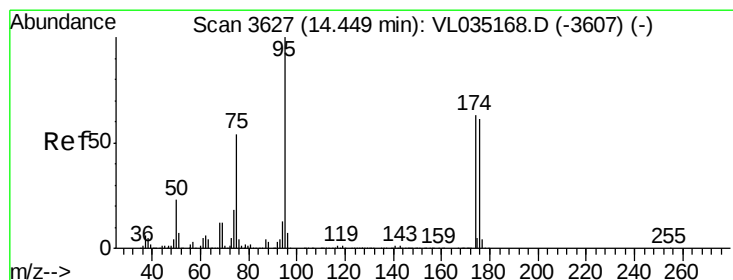
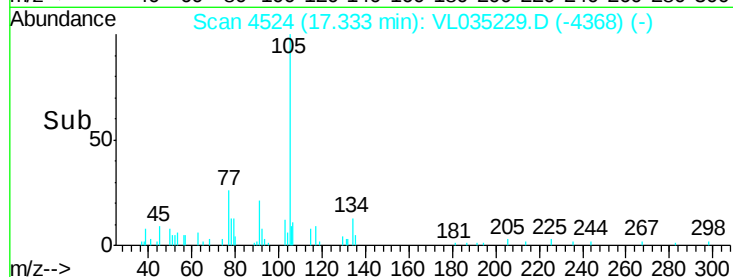
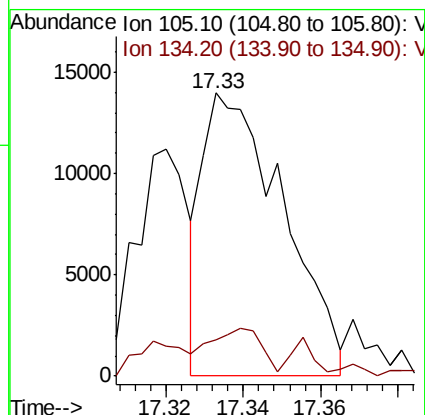
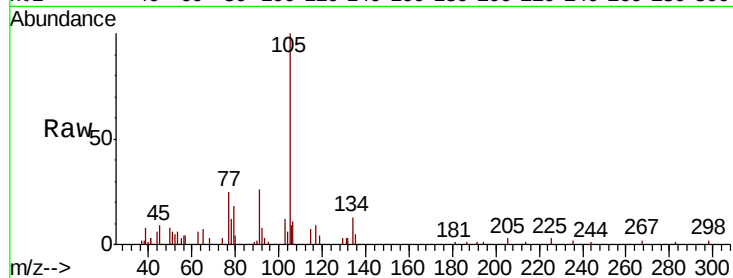




#67
 sec-Butylbenzene
 Concen: 0.040 ppbv
 RT: 17.33 min Scan# 4524
 Delta R.T. 0.00 min
 Lab File: VL035229.D
 Acq: 23 Jul 2020 15:10

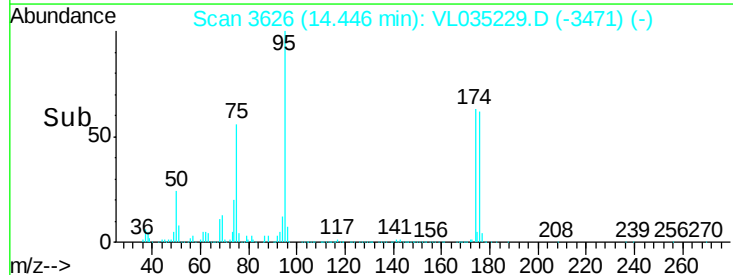
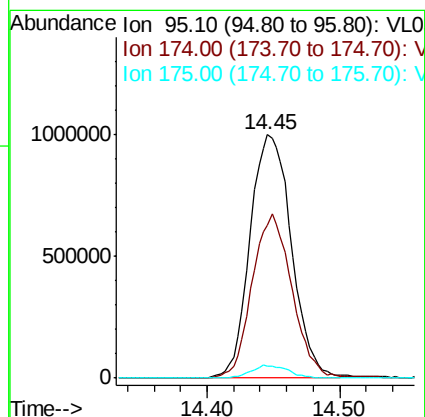
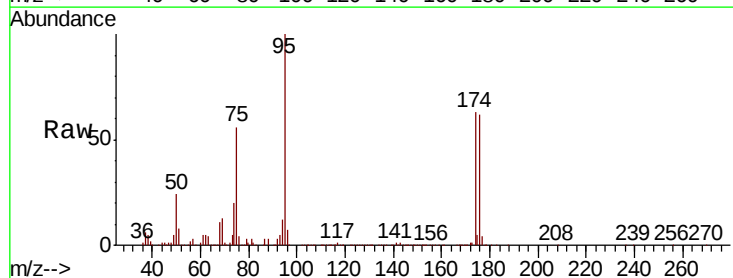
Instrument :
 MSVOA_L
 ClientSampleId :

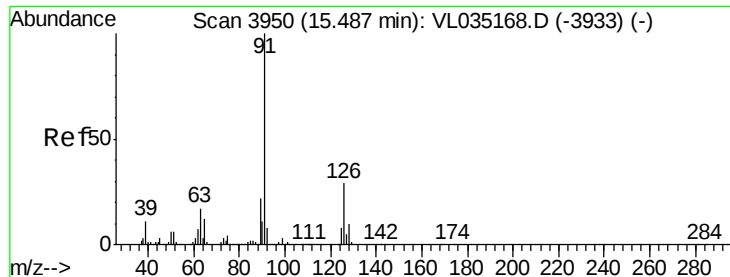
Tot Ion:105 Resp: 20158
 Ion Ratio Lower Upper
 105 100
 134 26.5 14.6 21.8#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.246 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. -0.00 min
 Lab File: VL035229.D
 Acq: 23 Jul 2020 15:10

Tgt Ion: 95 Resp: 2175258
 Ion Ratio Lower Upper
 95 100
 174 65.2 52.2 78.2
 175 4.9 4.0 6.0

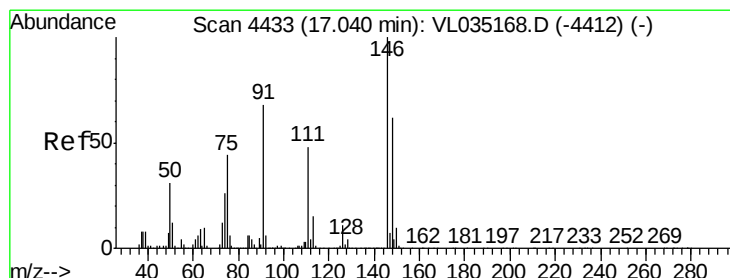
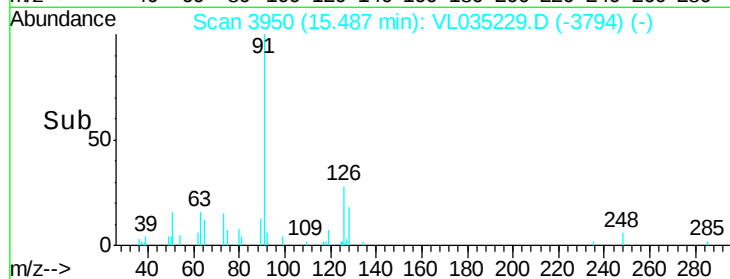
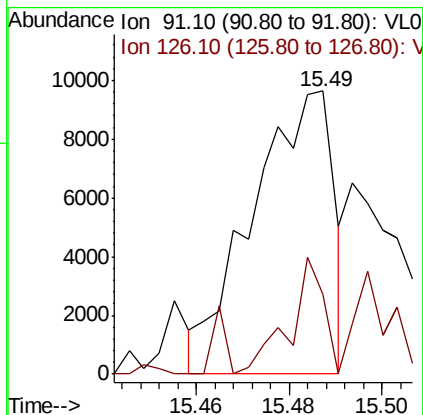
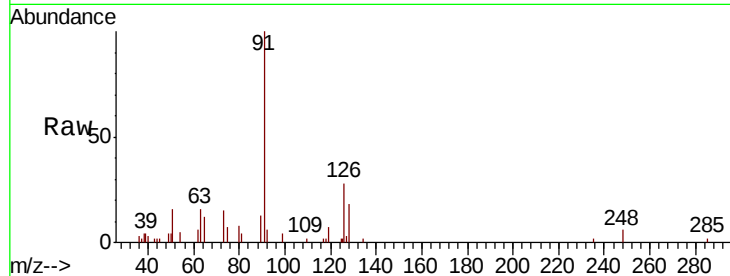




#71
2-Chlorotoluene
Concen: 0.041 ppbv
RT: 15.49 min Scan# 3950
Delta R.T. 0.00 min
Lab File: VL035229.D
Acq: 23 Jul 2020 15:10

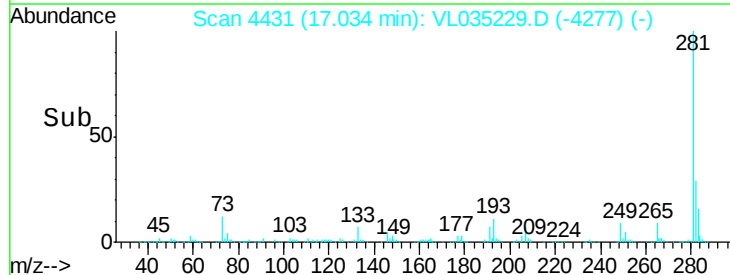
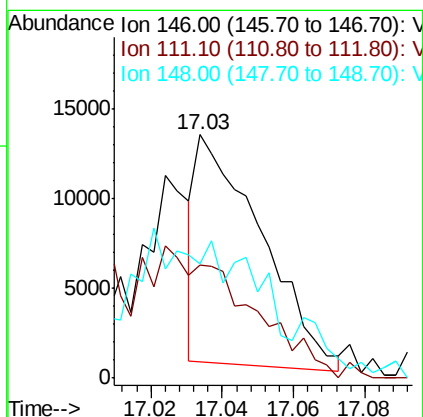
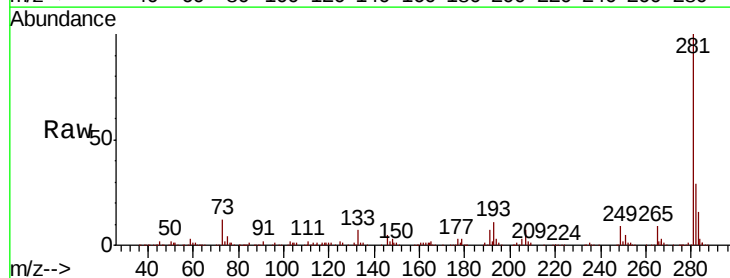
Instrument :
MSVOA_L
ClientSampled :

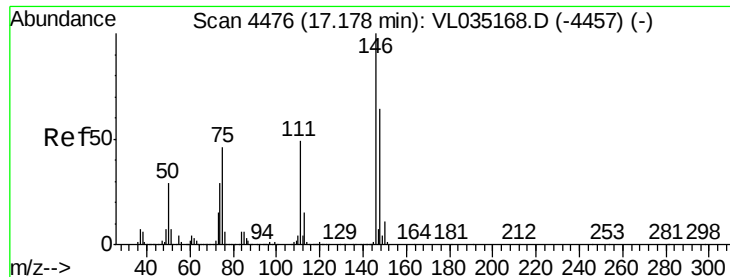
Tot Ion: 91 Resp: 11727
Ion Ratio Lower Upper
91 100
126 43.1 12.0 48.0



#75
1,3-Dichlorobenzene
Concen: 0.082 ppbv
RT: 17.03 min Scan# 4431
Delta R.T. -0.01 min
Lab File: VL035229.D
Acq: 23 Jul 2020 15:10

Tgt Ion: 146 Resp: 16062
Ion Ratio Lower Upper
146 100
111 0.0 24.7 74.1#
148 0.0 32.4 97.0#





#76

1,4-Dichlorobenzene

Concen: 0.067 ppbv

RT: 17.18 min Scan# 4476

Delta R.T. 0.00 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Instrument :

MSVOA_L

ClientSampleId :

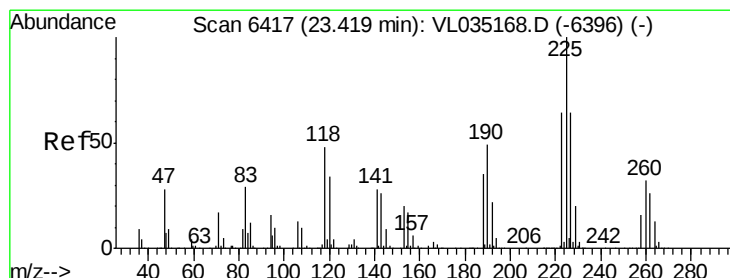
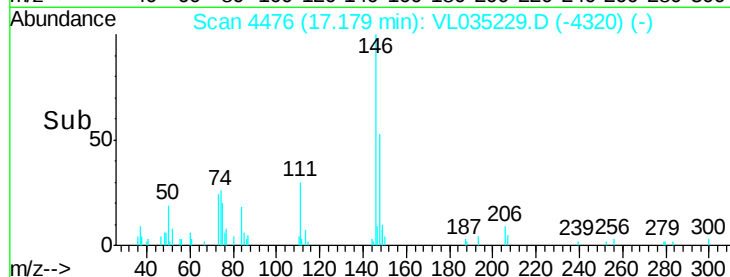
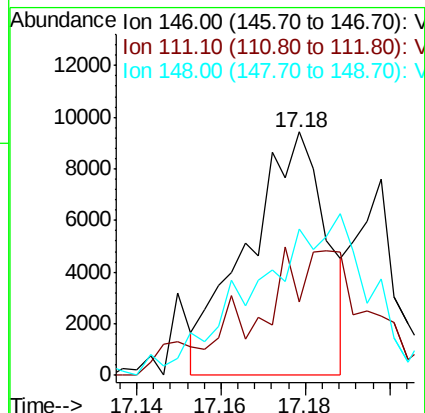
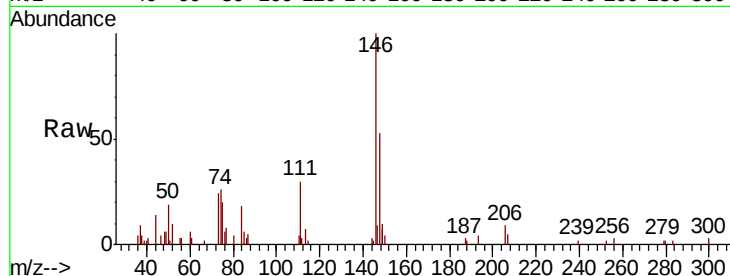
Tot Ion:146 Resp: 12191

Ion Ratio Lower Upper

146 100

111 80.8 23.8 71.2#

148 0.0 32.3 96.9#



#78

Hexachloro-1,3-Butadiene

Concen: 0.065 ppbv

RT: 23.42 min Scan# 6418

Delta R.T. 0.00 min

Lab File: VL035229.D

Acq: 23 Jul 2020 15:10

Tgt Ion:225 Resp: 8991

Ion Ratio Lower Upper

225 100

223 131.4 50.2 75.2#

227 145.2 51.2 76.8#

