

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102619\
 Data File : VU035512.D
 Acq On : 26 Oct 2019 12:28
 Operator : JC/SP
 Sample : VSTD05031
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 30 01:27:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102619WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Oct 30 01:21:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	592792	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	585120	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	261998	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	233341	46.59	ug/L	0.00
7) Chloroethane-d5	1.93	69	195652	46.61	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.60	63	397494	47.78	ug/L	0.00
21) 2-Butanone-d5	4.69	46	311130	93.37	ug/L	0.00
24) Chloroform-d	5.11	84	394114	48.48	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	246388	46.36	ug/L	0.00
32) Benzene-d6	5.77	84	803398	48.23	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.74	67	260685	48.71	ug/L	0.00
41) Toluene-d8	7.93	98	740163	47.29	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	122212	45.02	ug/L	0.00
47) 2-Hexanone-d5	8.68	63	194874	84.12	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.79	84	360942	45.79	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.22	152	242420	41.05	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.40	85	258614	52.762	ug/L 100
3) Chloromethane	1.54	50	270519	52.893	ug/L 100
5) Vinyl chloride	1.62	62	298844	56.609	ug/L 100
6) Bromomethane	1.87	94	132131	44.169	ug/L 100
8) Chloroethane	1.95	64	178498	55.334	ug/L 100
9) Trichlorofluoromethane	2.16	101	344464	52.732	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	202063	53.160	ug/L 100
12) 1,1-Dichloroethene	2.61	96	191745	52.059	ug/L 100
13) Acetone	2.67	43	322567	105.778	ug/L 100
14) Carbon disulfide	2.83	76	614858	52.509	ug/L 100
15) Methyl Acetate	2.99	43	264077	56.967	ug/L 100
16) Methylene chloride	3.09	84	237391	53.846	ug/L 100
17) trans-1,2-Dichloroethene	3.39	96	207527	52.518	ug/L 100
18) Methyl tert-butyl Ether	3.42	73	644038	51.587	ug/L 100
19) 1,1-Dichloroethane	3.92	63	422870	55.469	ug/L 100
20) cis-1,2-Dichloroethene	4.72	96	234748	52.343	ug/L 100
22) 2-Butanone	4.77	43	410909	110.033	ug/L 100
23) Bromochloromethane	5.02	128	118777	52.731	ug/L 100
25) Chloroform	5.14	83	414492	53.177	ug/L 100
27) 1,2-Dichloroethane	5.84	62	320615	53.219	ug/L 100
29) Cyclohexane	5.43	56	346837	52.437	ug/L 100
30) 1,1,1-Trichloroethane	5.37	97	338929	52.344	ug/L 100
31) Carbon tetrachloride	5.57	117	295174	52.169	ug/L 100
33) Benzene	5.82	78	922008	54.598	ug/L 100
34) Trichloroethene	6.58	95	219803	51.291	ug/L 100
35) Methylcyclohexane	6.80	83	312772	47.938	ug/L 100
37) 1,2-Dichloropropane	6.84	63	246099	55.906	ug/L 100
38) Bromodichloromethane	7.15	83	310917	53.369	ug/L 100
39) cis-1,3-Dichloropropene	7.65	75	378689	53.820	ug/L 100
40) 4-Methyl-2-pentanone	7.84	43	673413	104.337	ug/L 100

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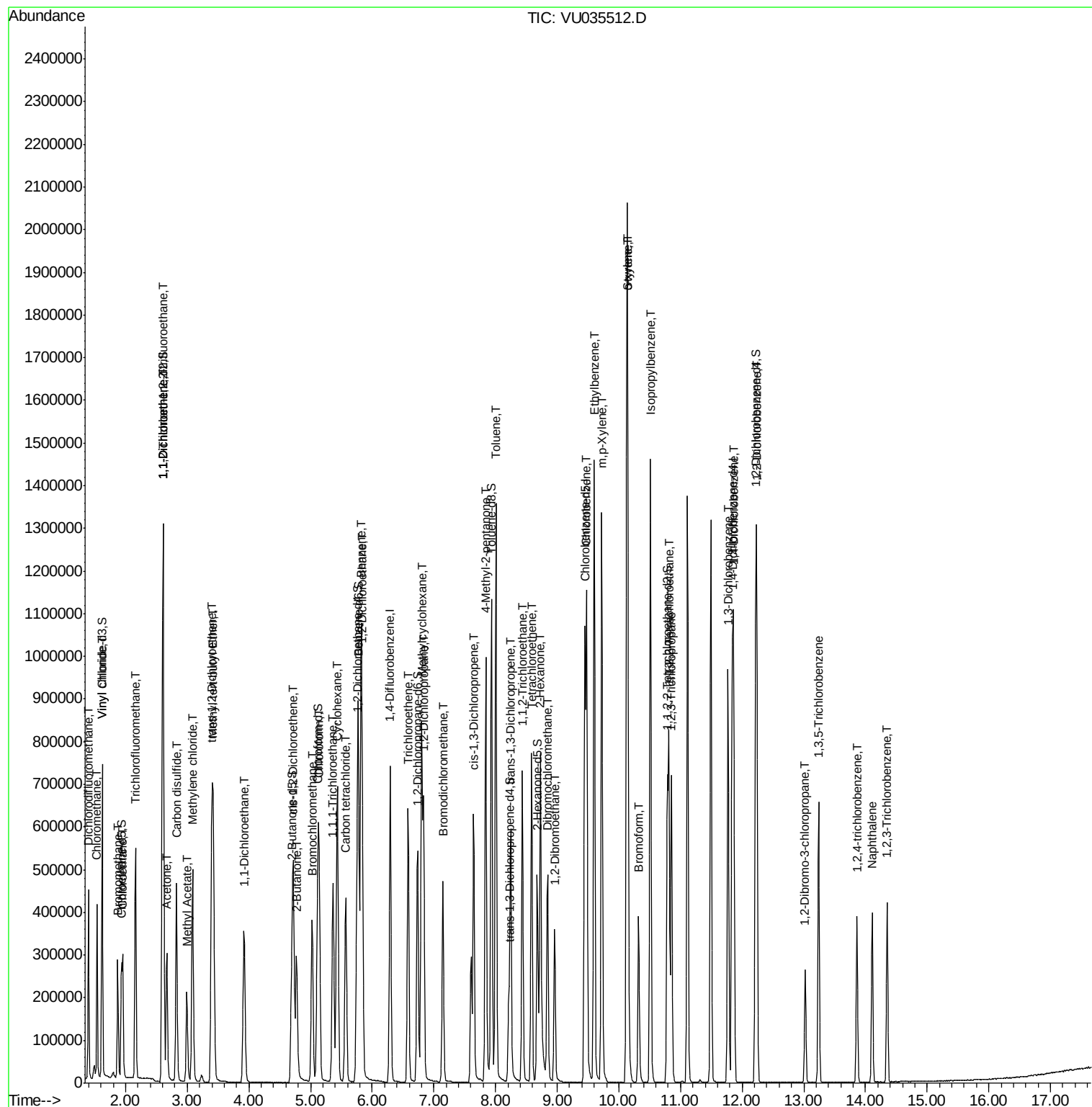
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.01	91	962681	52.487	ug/L	100
44) trans-1,3-Dichloropropene	8.25	75	343957	52.606	ug/L	100
45) 1,1,2-Trichloroethane	8.44	97	226866	52.869	ug/L	100
46) Tetrachloroethene	8.58	164	173692	50.346	ug/L	100
48) 2-Hexanone	8.73	43	546300	99.986	ug/L	100
49) Dibromochloromethane	8.84	129	249017	52.304	ug/L	100
50) 1,2-Dibromoethane	8.96	107	241788	51.360	ug/L	100
51) Chlorobenzene	9.48	112	608648	51.077	ug/L	100
52) Ethylbenzene	9.60	91	1029499	50.705	ug/L	100
53) m,p-Xylene	9.72	106	390418	51.820	ug/L	100
54) o-xylene	10.13	106	380481	51.319	ug/L	100
55) Styrene	10.14	104	633169	52.415	ug/L	100
56) Isopropylbenzene	10.51	105	946632	49.619	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.81	83	396443	52.887	ug/L	100
59) 1,2,3-Trichloropropane	10.85	75	317051	53.266	ug/L	100
61) Bromoform	10.32	173	183028	48.701	ug/L	100
62) 1,3-Dichlorobenzene	11.77	146	414001	48.663	ug/L	100
63) 1,4-Dichlorobenzene	11.86	146	408892	47.932	ug/L	100
65) 1,2-Dichlorobenzene	12.24	146	414901	48.819	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.02	75	67454	49.969	ug/L	100
67) 1,3,5-Trichlorobenzene	13.24	180	208451	44.758	ug/L	100
68) 1,2,4-trichlorobenzene	13.86	180	122898	40.512	ug/L	100
69) Naphthalene	14.11	128	310911	37.041	ug/L	100
70) 1,2,3-Trichlorobenzene	14.35	180	130770	41.643	ug/L	100

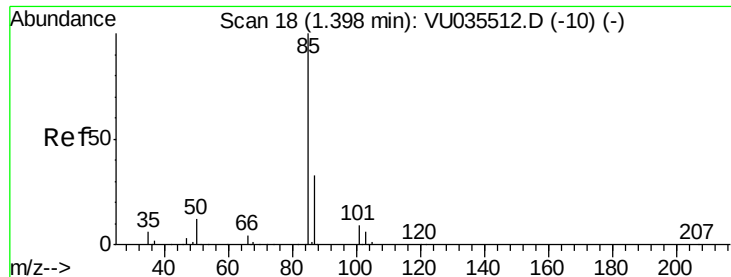
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 52.762 ug/L

RT: 1.40 min Scan# 18

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

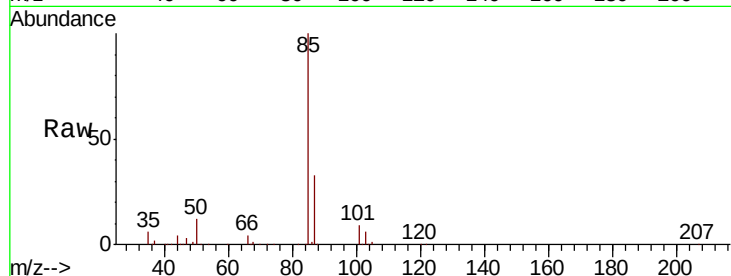
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 258614

Ion Ratio Lower Upper

85 100

87 32.7 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VU035512.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU035512.D (-10) (-)

1.40

250000

200000

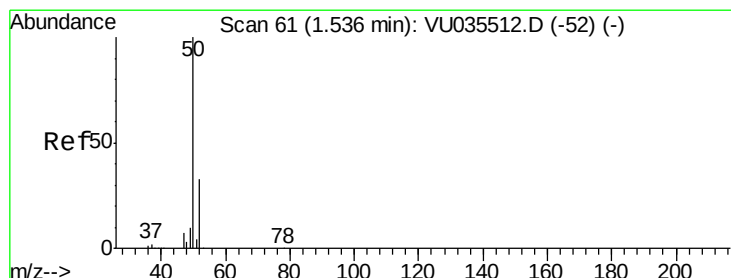
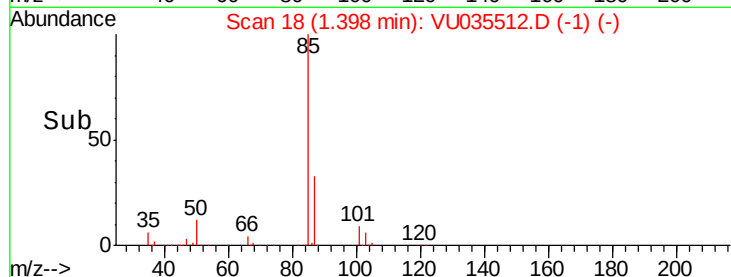
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 52.893 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU035512.D

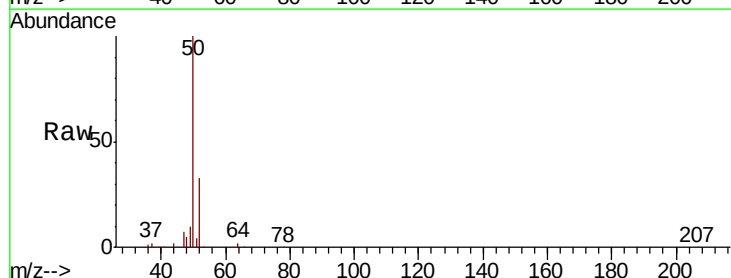
Acq: 26 Oct 2019 12:28

Tgt Ion: 50 Resp: 270519

Ion Ratio Lower Upper

50 100

52 32.5 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VU035512.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU035512.D (-52) (-)

1.54

300000

250000

200000

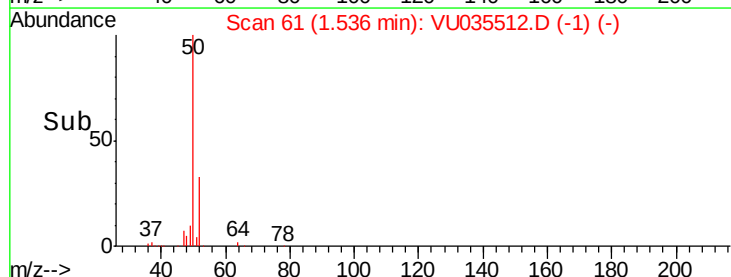
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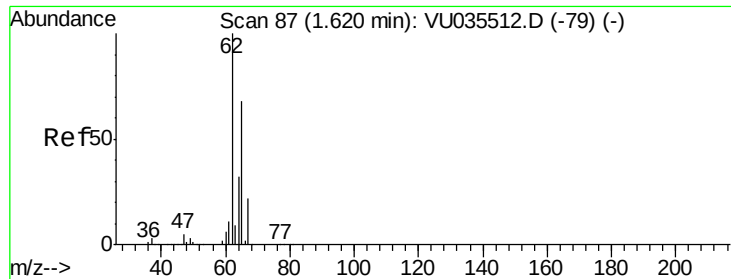
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 56.609 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

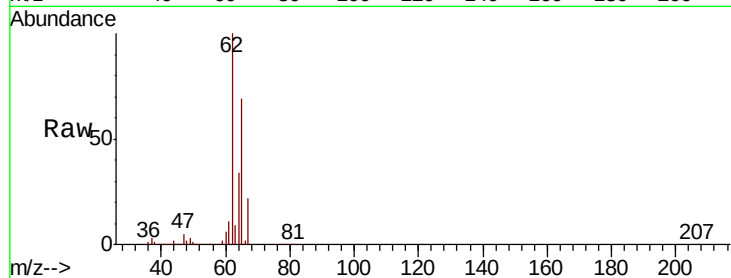
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 298844

Ion Ratio Lower Upper

62 100

64 34.0 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VU035512.D (-79) (-)

Ion 64.00 (63.70 to 64.70): VU035512.D (-79) (-)

1.62

250000

200000

150000

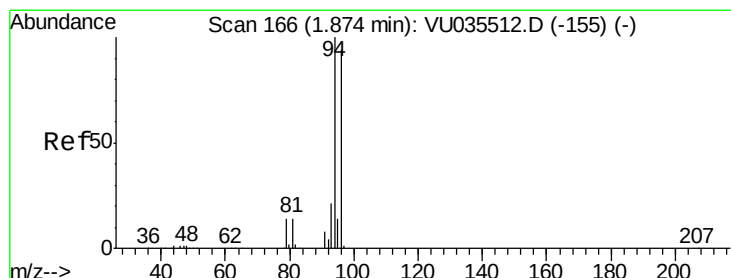
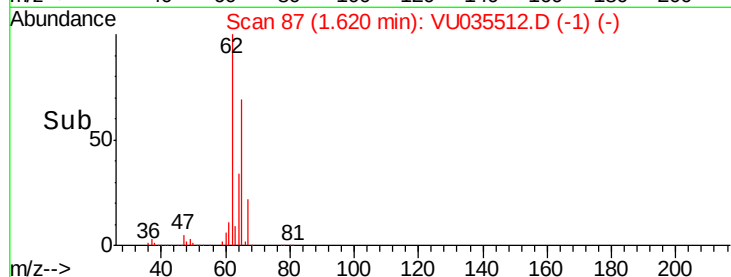
100000

50000

0

1.60 1.65

Time-->



#6

Bromomethane

Concen: 44.169 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU035512.D

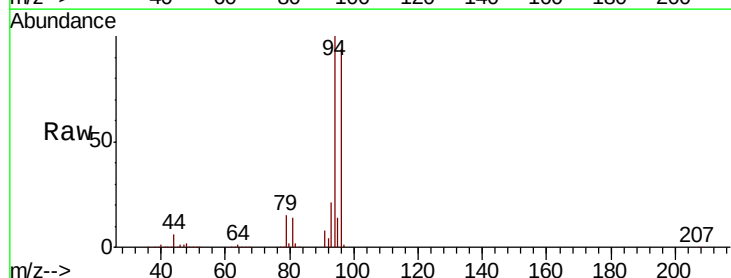
Acq: 26 Oct 2019 12:28

Tgt Ion: 94 Resp: 132131

Ion Ratio Lower Upper

94 100

96 93.8 65.7 121.9



Abundance Ion 94.00 (93.70 to 94.70): VU035512.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU035512.D (-155) (-)

1.87

100000

80000

60000

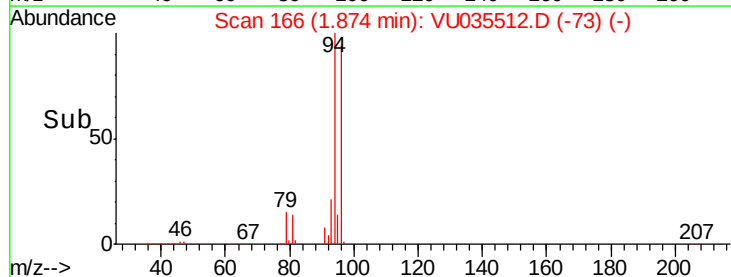
40000

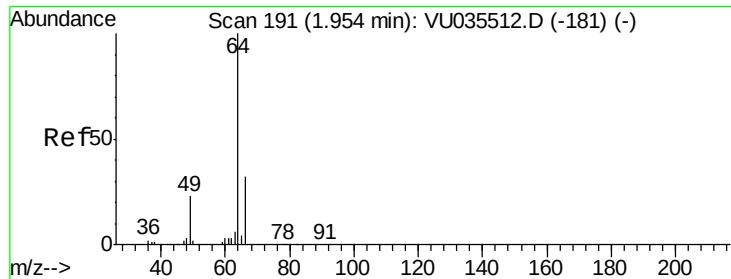
20000

0

1.80 1.85 1.90 1.95

Time-->

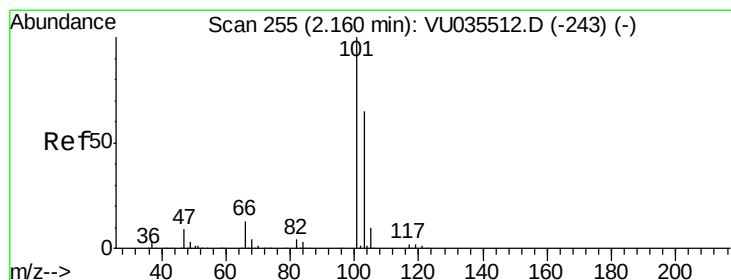
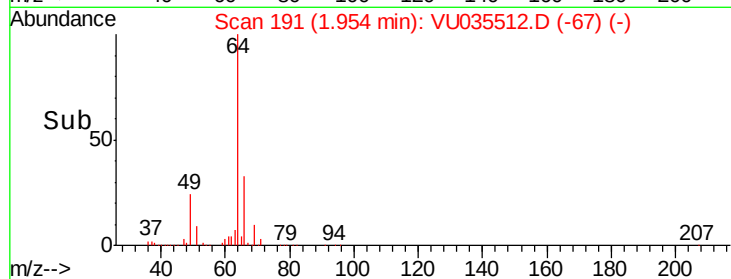
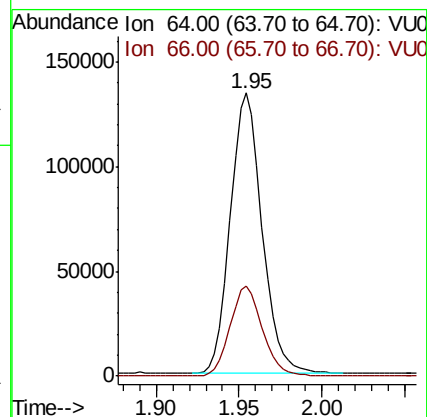
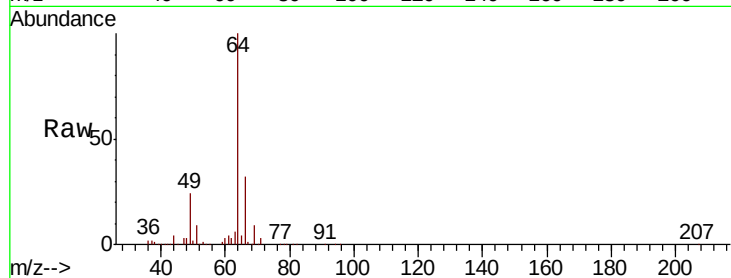




#8
 Chloroethane
 Concen: 55.334 ug/L
 RT: 1.95 min Scan# 191
 Delta R.T. 0.00 min
 Lab File: VU035512.D
 Acq: 26 Oct 2019 12:28

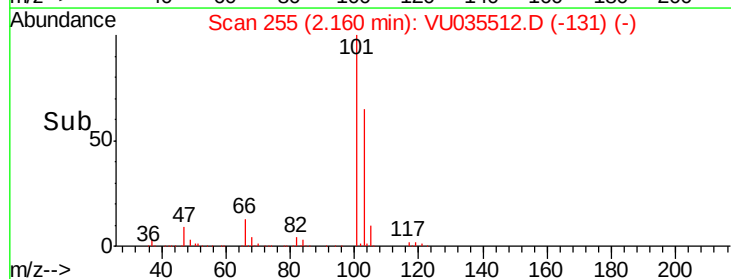
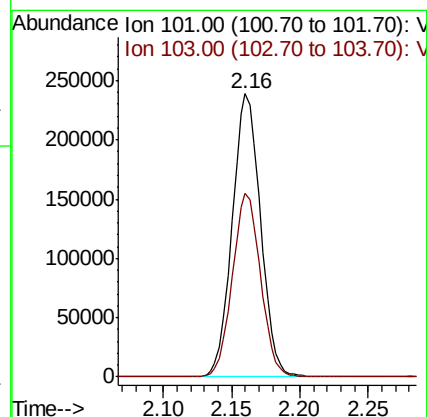
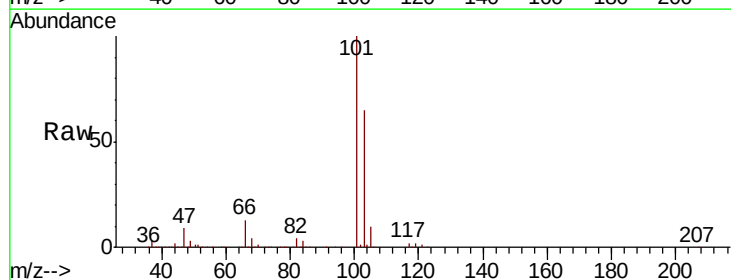
Instrument :
 MSVOA_U
 ClientSampleId :

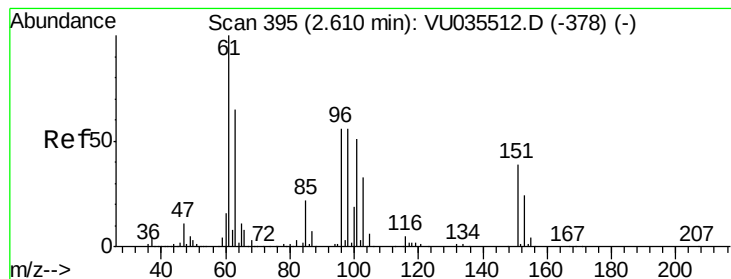
Tot Ion: 64 Resp: 178498
 Ion Ratio Lower Upper
 64 100
 66 31.9 22.3 41.5



#9
 Trichlorofluoromethane
 Concen: 52.732 ug/L
 RT: 2.16 min Scan# 255
 Delta R.T. 0.00 min
 Lab File: VU035512.D
 Acq: 26 Oct 2019 12:28

Tgt Ion: 101 Resp: 344464
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.7 77.5





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 53.160 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

Instrument :

MSVOA_U

ClientSampleId :

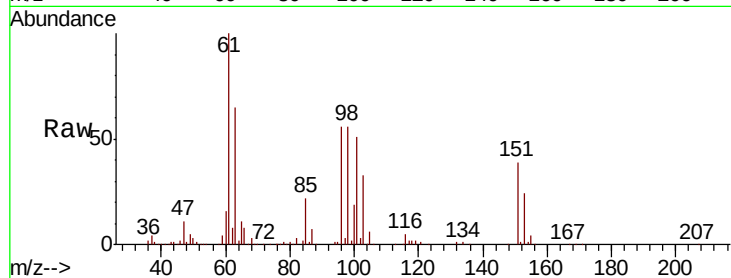
Tot Ion:101 Resp: 202063

Ion Ratio Lower Upper

101 100

85 43.3 34.6 52.0

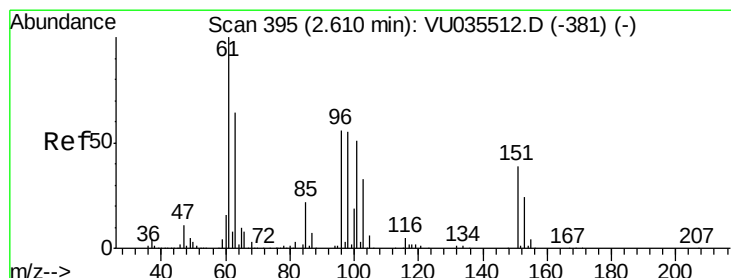
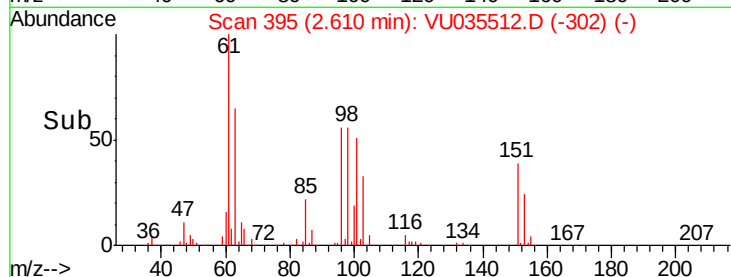
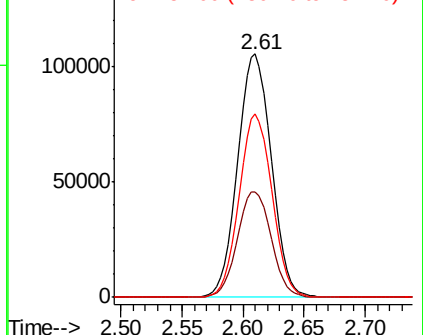
151 73.3 58.6 88.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 52.059 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

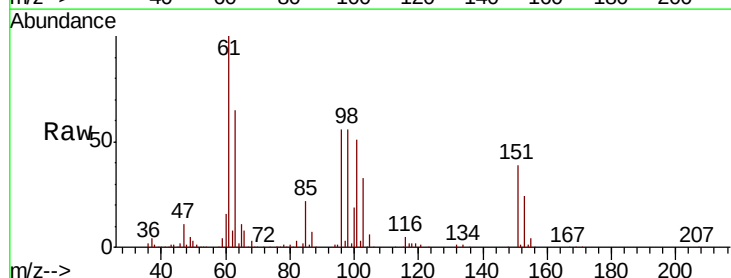
Tgt Ion: 96 Resp: 191745

Ion Ratio Lower Upper

96 100

61 178.8 125.2 232.4

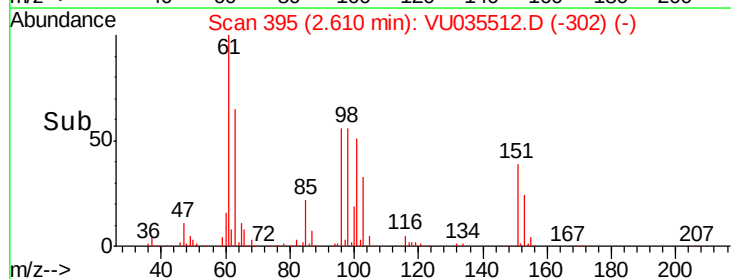
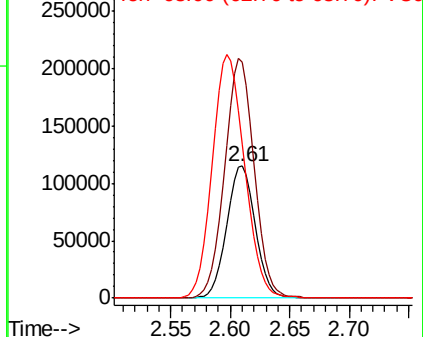
63 116.8 81.8 151.8

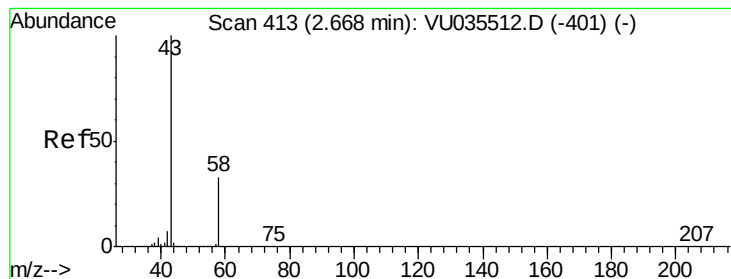


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 105.778 ug/L

RT: 2.67 min Scan# 413

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

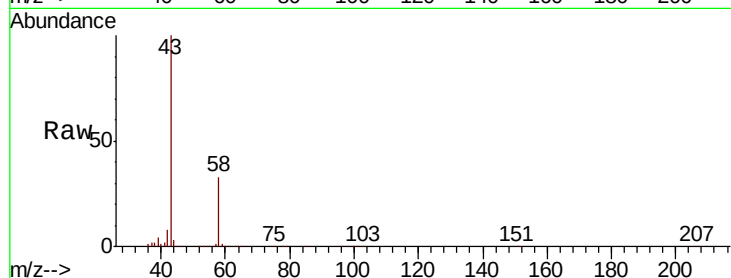
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 322567

Ion Ratio Lower Upper

43 100

58 33.3 0.0 66.6



Abundance Ion 43.00 (42.70 to 43.70): VU035512.D (-401) (-)

Ion 58.00 (57.70 to 58.70): VU035512.D (-401) (-)

2.67

200000

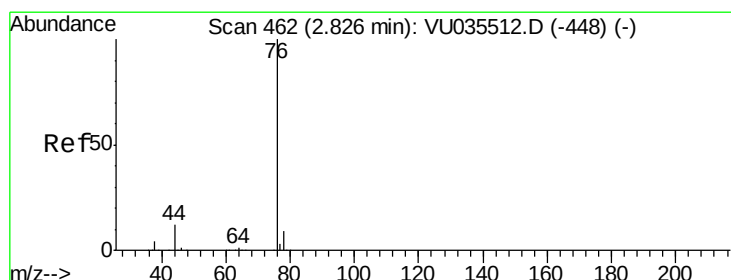
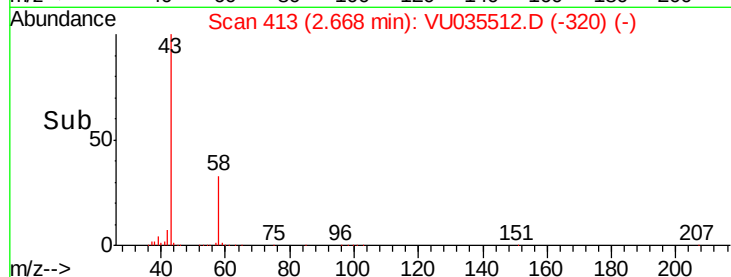
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 52.509 ug/L

RT: 2.83 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU035512.D

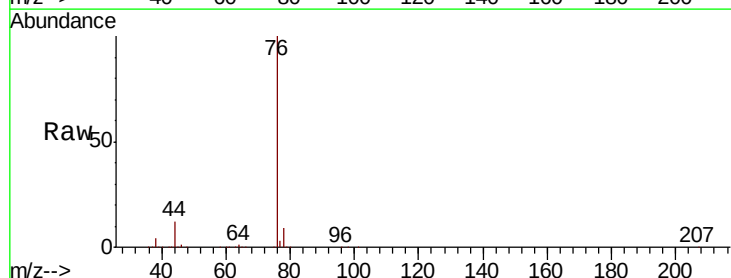
Acq: 26 Oct 2019 12:28

Tgt Ion: 76 Resp: 614858

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU035512.D (-448) (-)

Ion 78.00 (77.70 to 78.70): VU035512.D (-448) (-)

2.83

400000

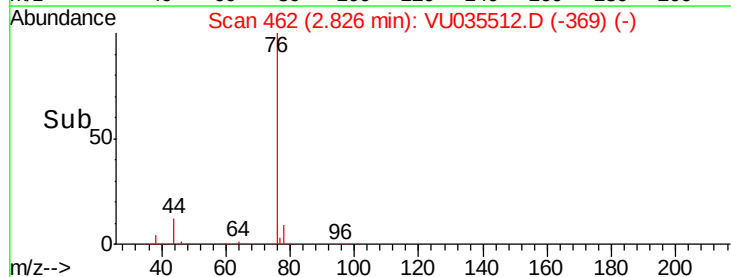
300000

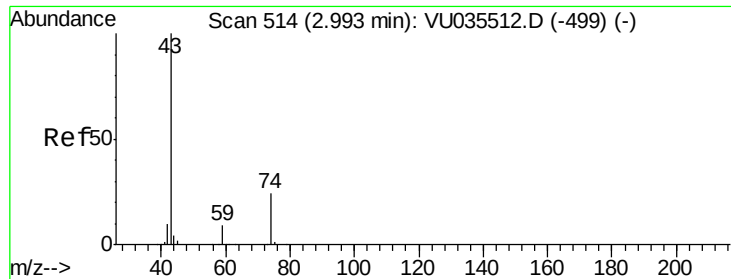
200000

100000

0

Time-->

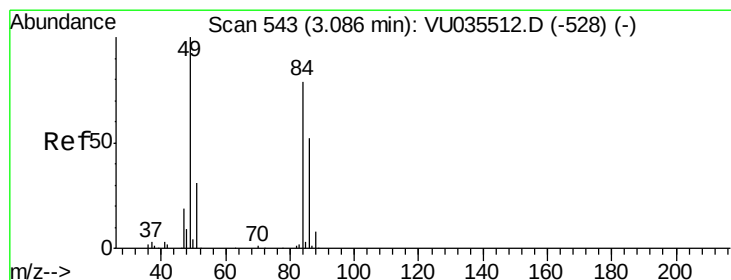
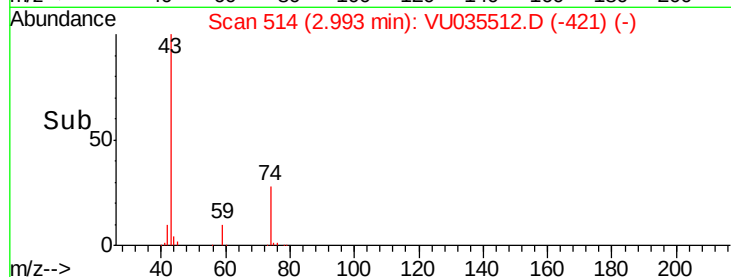
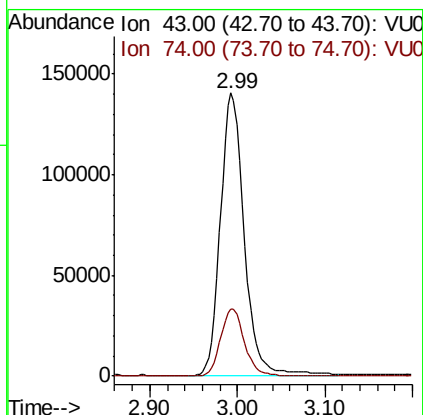
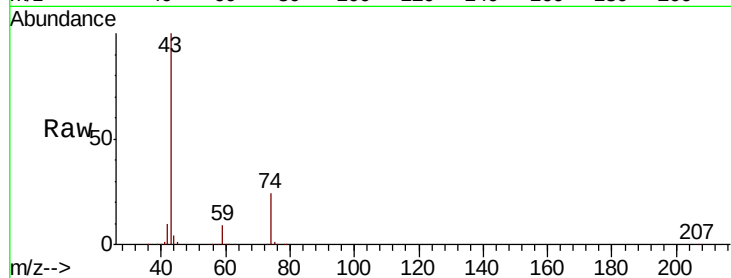




#15
Methyl Acetate
Concen: 56.967 ug/L
RT: 2.99 min Scan# 514
Delta R.T. 0.00 min
Lab File: VU035512.D
Acq: 26 Oct 2019 12:28

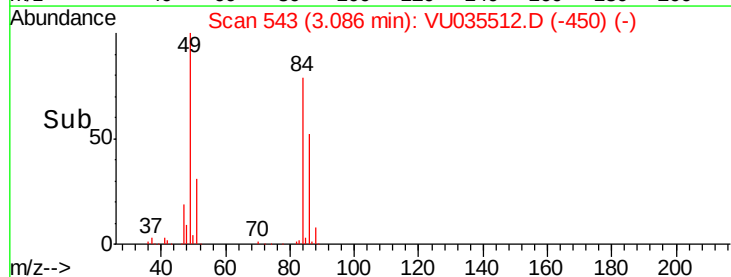
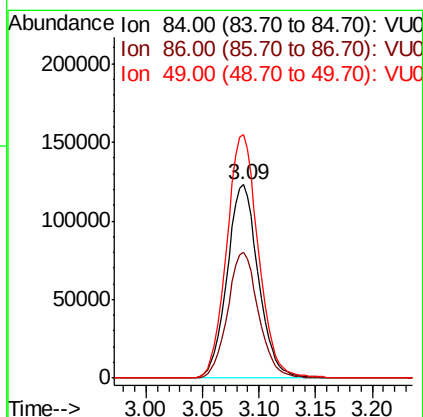
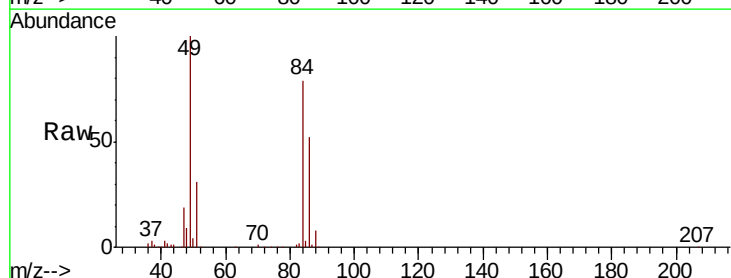
Instrument :
MSVOA_U
ClientSampleId :

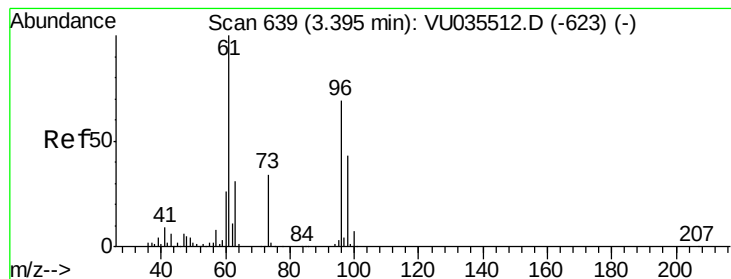
Tot Ion: 43 Resp: 264077
Ion Ratio Lower Upper
43 100
74 23.8 19.0 28.6



#16
Methylene chloride
Concen: 53.846 ug/L
RT: 3.09 min Scan# 543
Delta R.T. 0.00 min
Lab File: VU035512.D
Acq: 26 Oct 2019 12:28

Tgt Ion: 84 Resp: 237391
Ion Ratio Lower Upper
84 100
86 65.0 45.5 84.5
49 126.1 88.3 163.9





#17

trans-1,2-Dichloroethene

Concen: 52.518 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

Instrument :
MSVOA_U
ClientSampleId :

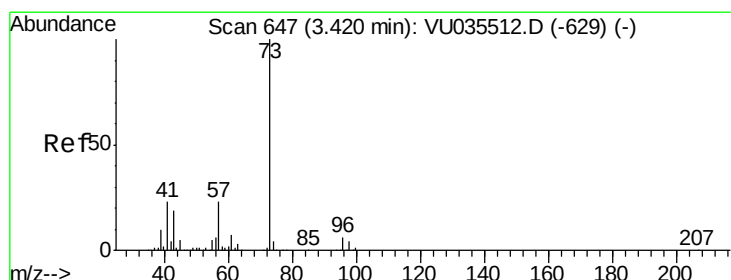
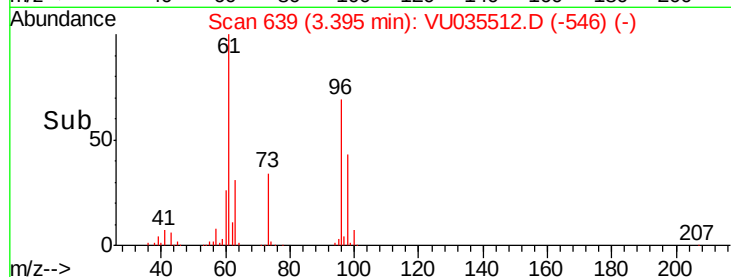
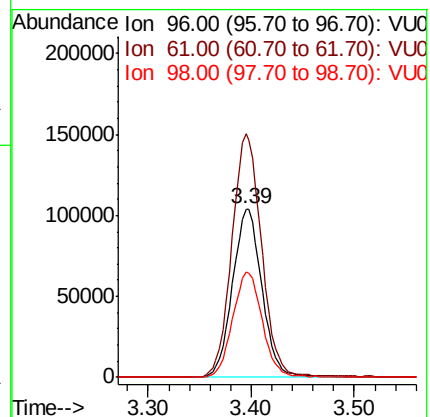
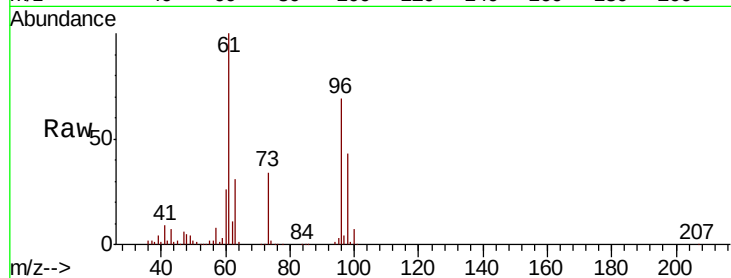
Tot Ion: 96 Resp: 207527

Ion Ratio Lower Upper

96 100

61 144.6 101.2 188.0

98 62.3 43.6 81.0



#18

Methyl tert-butyl Ether

Concen: 51.587 ug/L

RT: 3.42 min Scan# 647

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

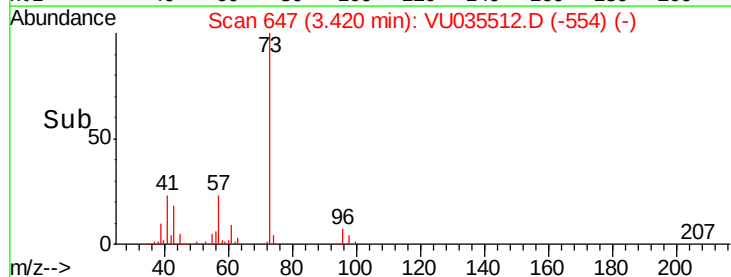
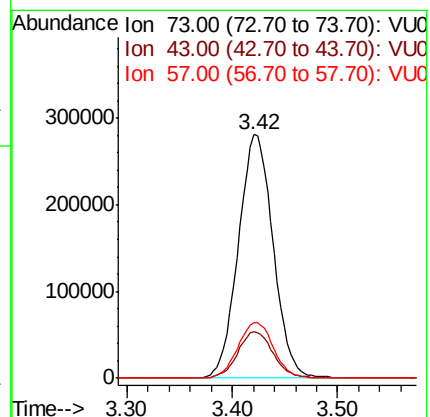
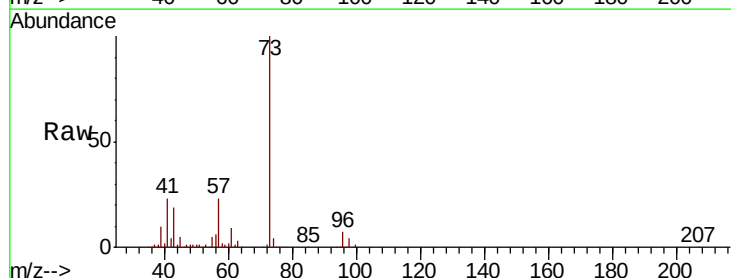
Tgt Ion: 73 Resp: 644038

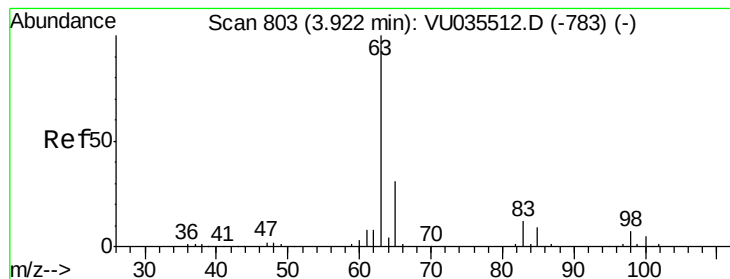
Ion Ratio Lower Upper

73 100

43 19.0 15.2 22.8

57 23.4 18.7 28.1





#19

1,1-Dichloroethane

Concen: 55.469 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

Instrument :

MSVOA_U

ClientSampleId :

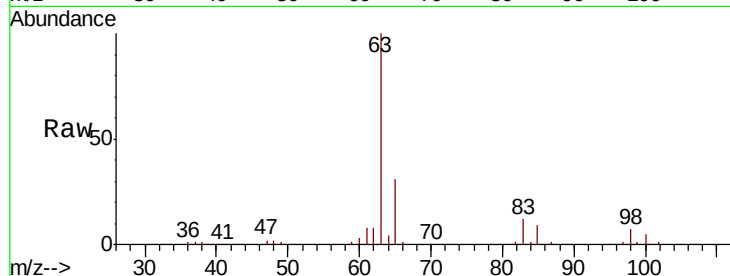
Tot Ion: 63 Resp: 422870

Ion Ratio Lower Upper

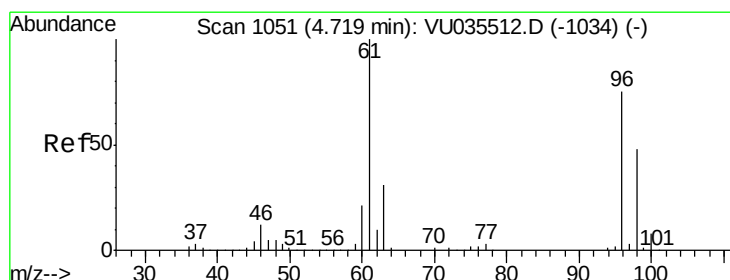
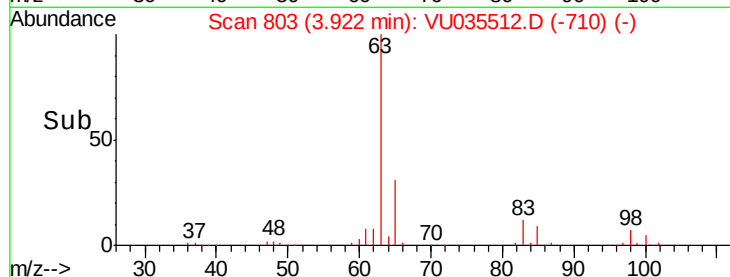
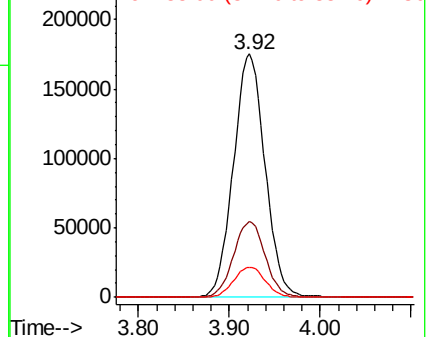
63 100

65 31.0 21.7 40.3

83 12.4 8.7 16.1



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 52.343 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

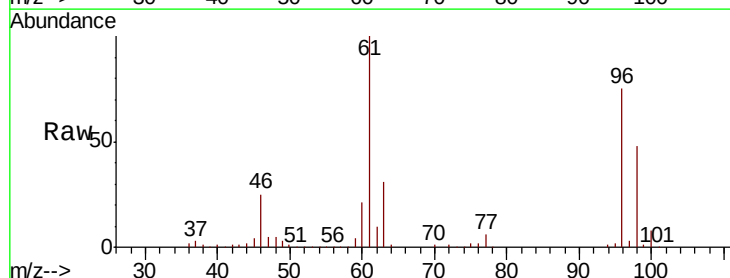
Tgt Ion: 96 Resp: 234748

Ion Ratio Lower Upper

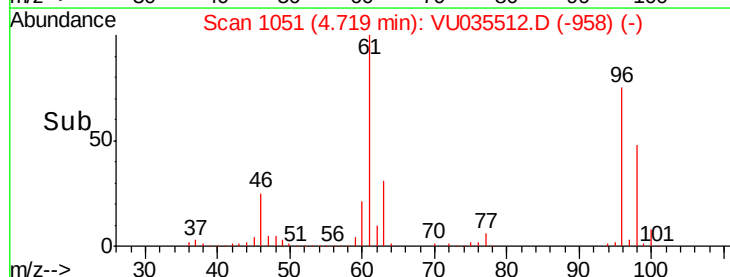
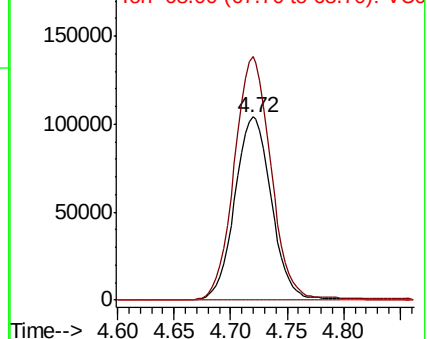
96 100

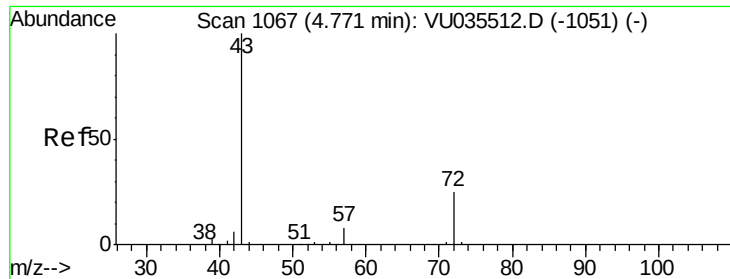
61 132.9 93.0 172.8

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 110.033 ug/L

RT: 4.77 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

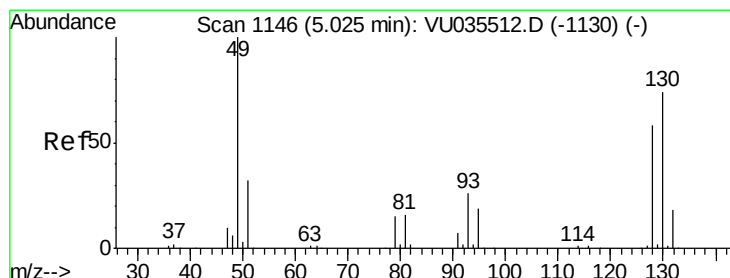
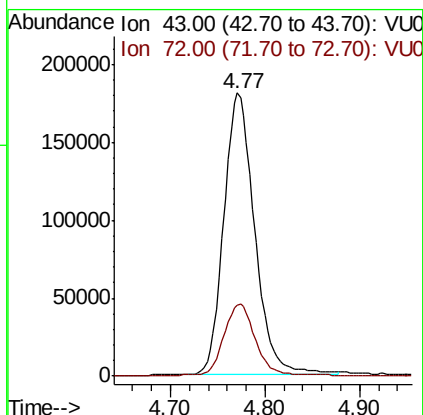
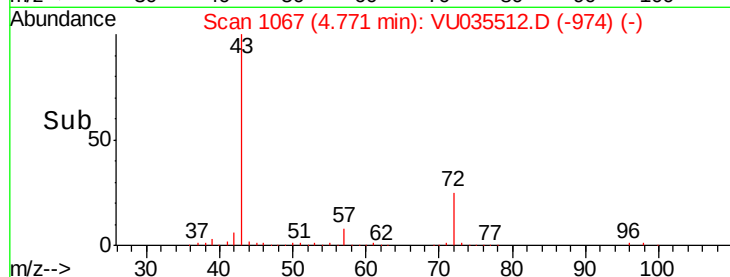
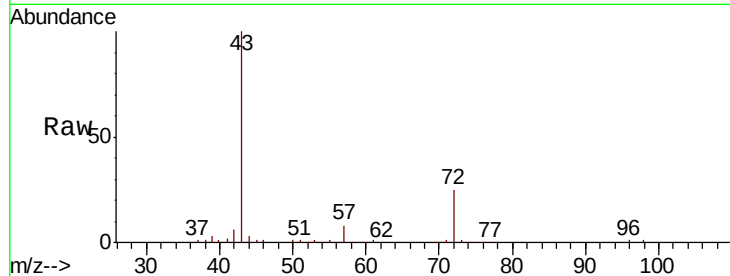
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 410909

Ion Ratio Lower Upper

43 100

72 26.7 13.4 40.1



#23

Bromochloromethane

Concen: 52.731 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

Tgt Ion: 128 Resp: 118777

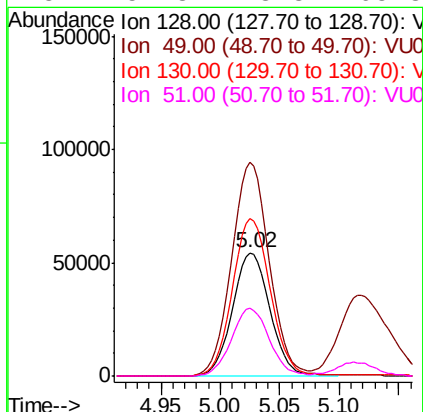
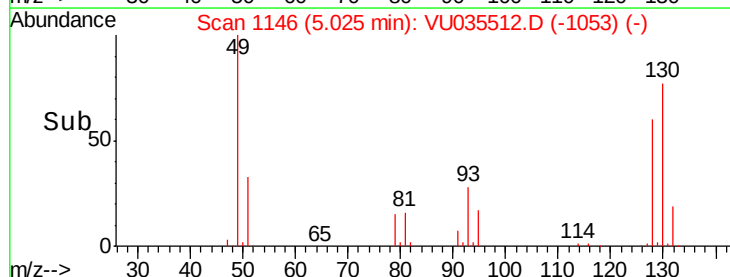
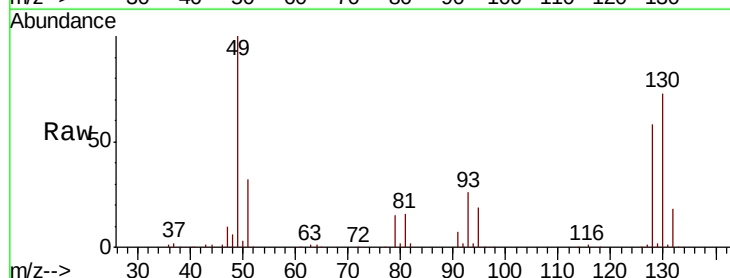
Ion Ratio Lower Upper

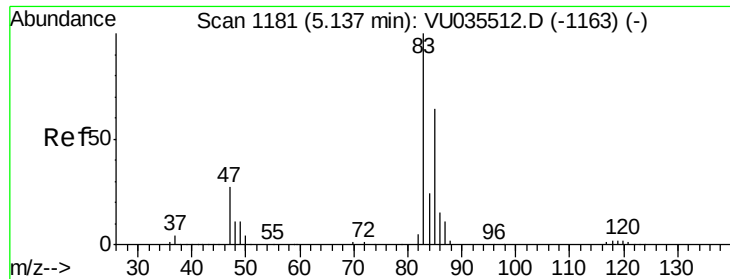
128 100

49 173.0 121.1 224.9

130 127.1 89.0 165.2

51 54.8 43.8 65.8

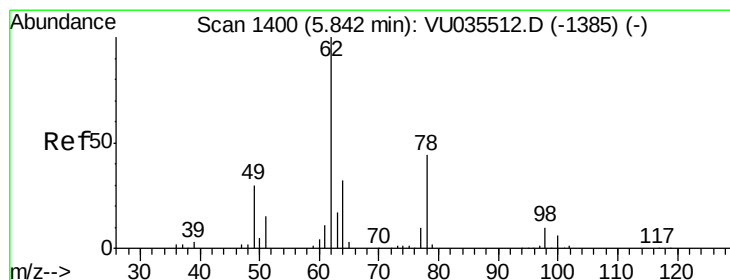
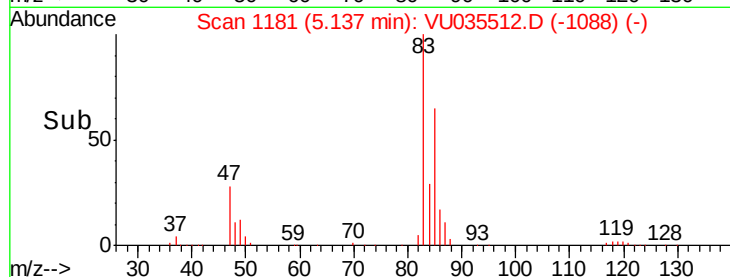
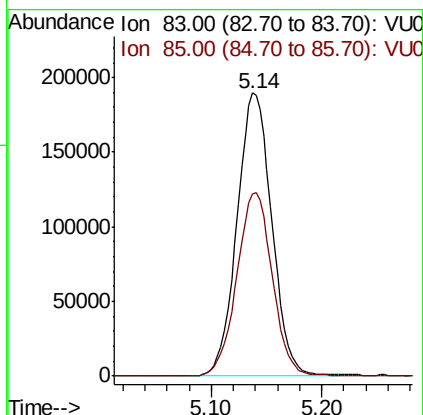
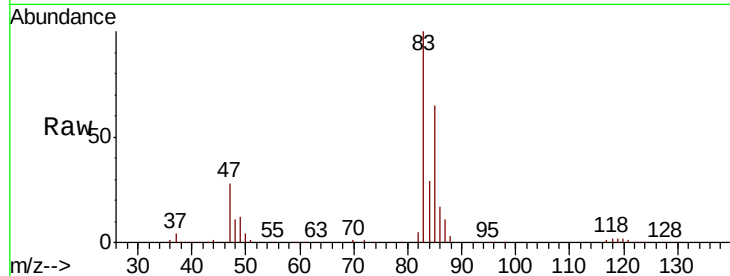




#25
Chloroform
Concen: 53.177 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU035512.D
Acq: 26 Oct 2019 12:28

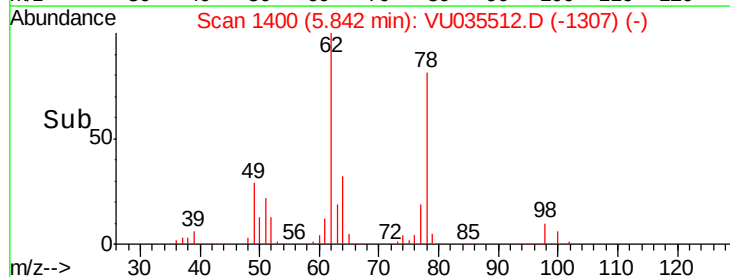
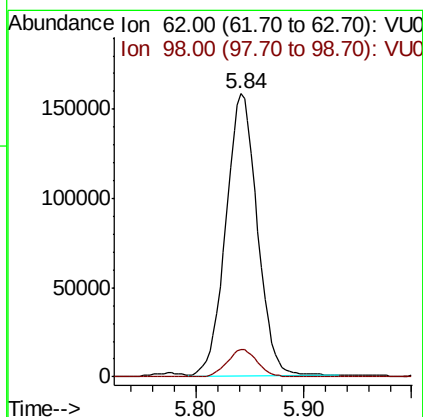
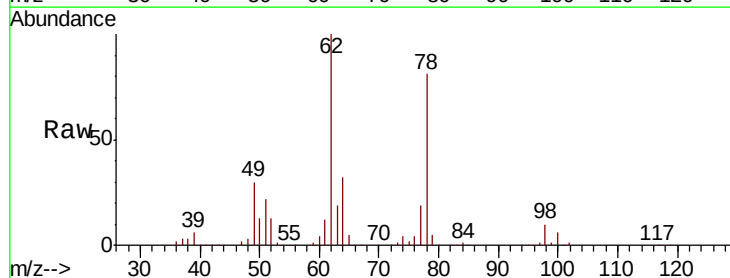
Instrument :
MSVOA_U
ClientSampleId :

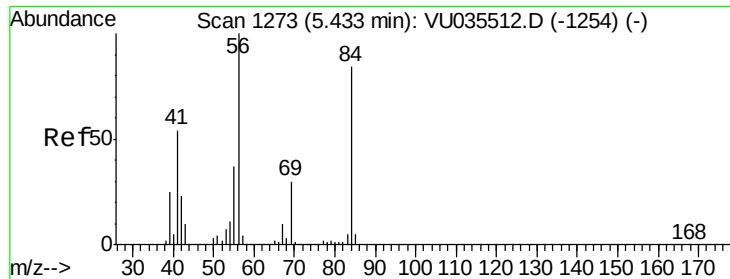
Tot Ion: 83 Resp: 414492
Ion Ratio Lower Upper
83 100
85 64.5 45.1 83.9



#27
1,2-Dichloroethane
Concen: 53.219 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. 0.00 min
Lab File: VU035512.D
Acq: 26 Oct 2019 12:28

Tgt Ion: 62 Resp: 320615
Ion Ratio Lower Upper
62 100
98 9.7 7.8 11.6

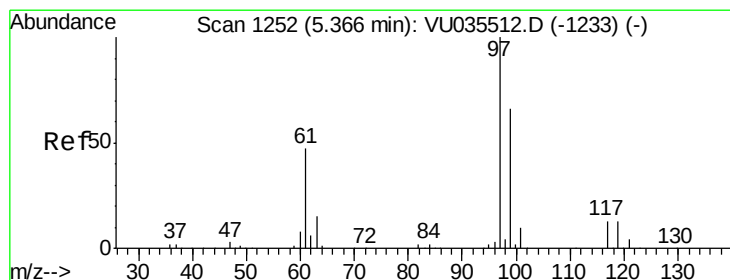
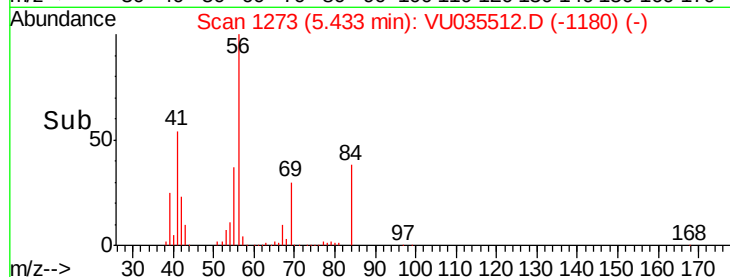
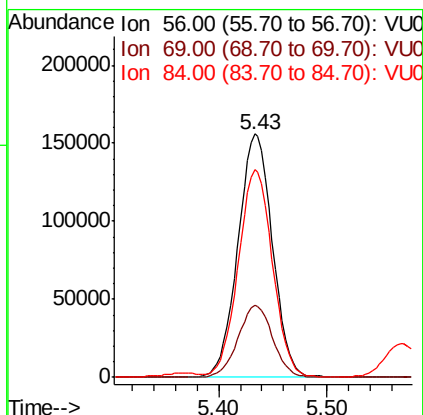
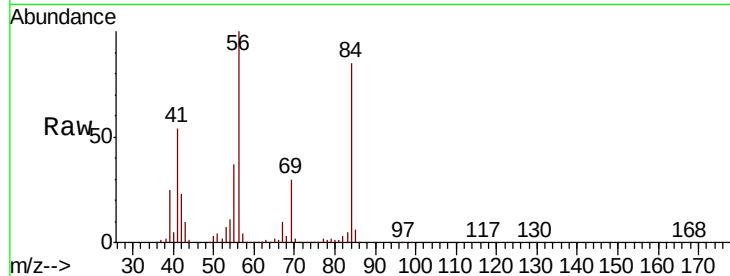




#29
Cyclohexane
Concen: 52.437 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VU035512.D
Acq: 26 Oct 2019 12:28

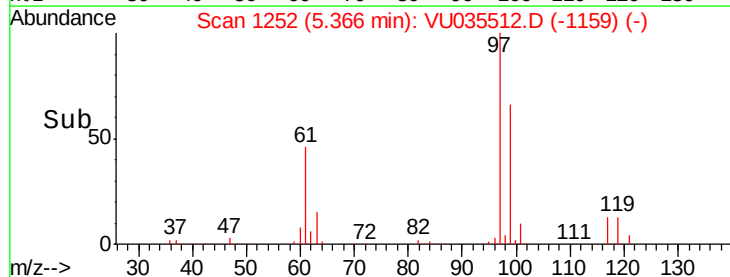
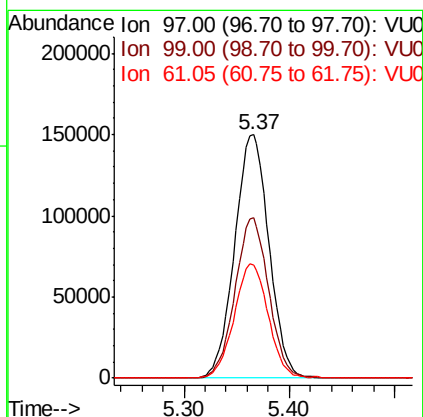
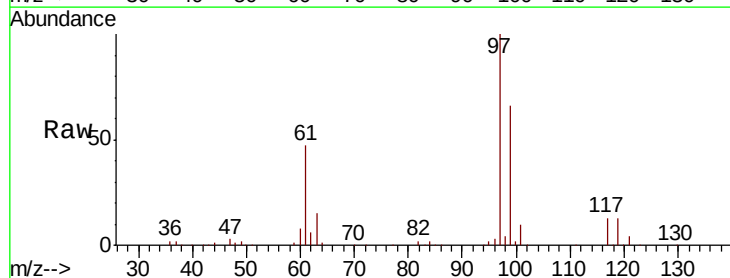
Instrument :
MSVOA_U
ClientSampleId :

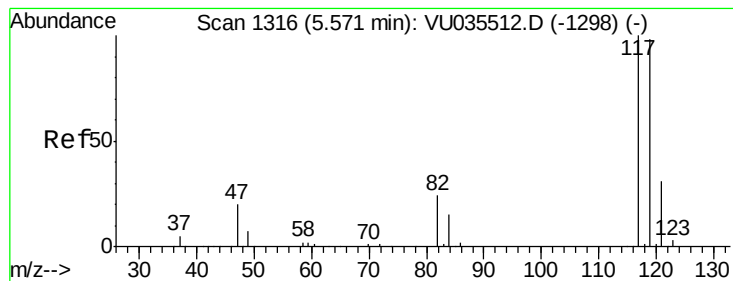
Tot Ion: 56 Resp: 346837
Ion Ratio Lower Upper
56 100
69 29.6 23.7 35.5
84 84.6 67.7 101.5



#30
1,1,1-Trichloroethane
Concen: 52.344 ug/L
RT: 5.37 min Scan# 1252
Delta R.T. 0.00 min
Lab File: VU035512.D
Acq: 26 Oct 2019 12:28

Tgt Ion: 97 Resp: 338929
Ion Ratio Lower Upper
97 100
99 64.5 51.6 77.4
61 46.6 37.3 55.9





#31

Carbon tetrachloride

Concen: 52.169 ug/L

RT: 5.57 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

Instrument :

MSVOA_U

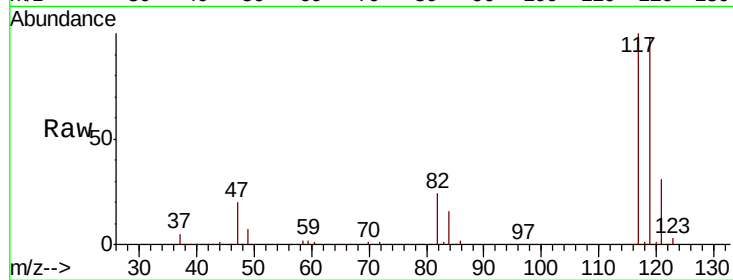
ClientSampleId :

Tot Ion:117 Resp: 295174

Ion Ratio Lower Upper

117 100

119 97.2 77.8 116.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.57

150000

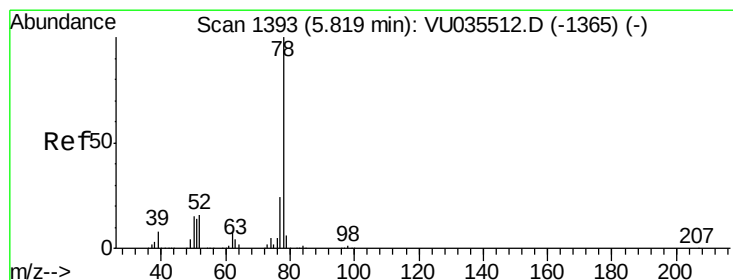
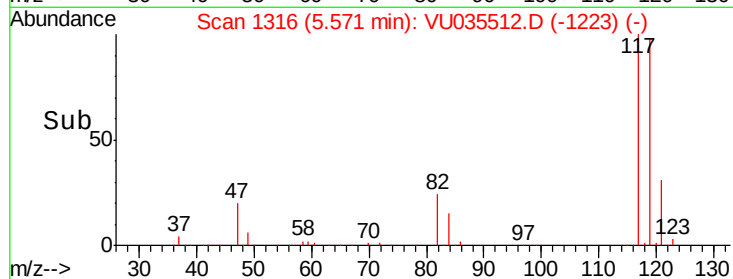
100000

50000

0

Time-->

5.50 5.55 5.60 5.65



#33

Benzene

Concen: 54.598 ug/L

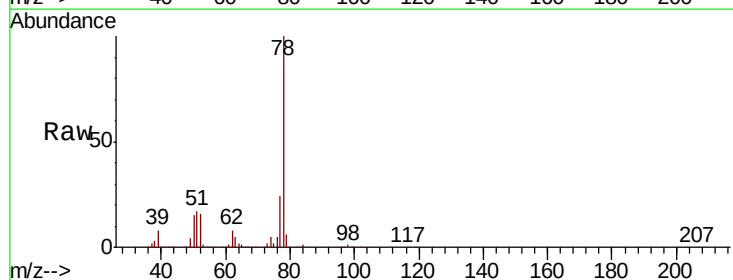
RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

Tgt Ion: 78 Resp: 922008



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.82

500000

400000

300000

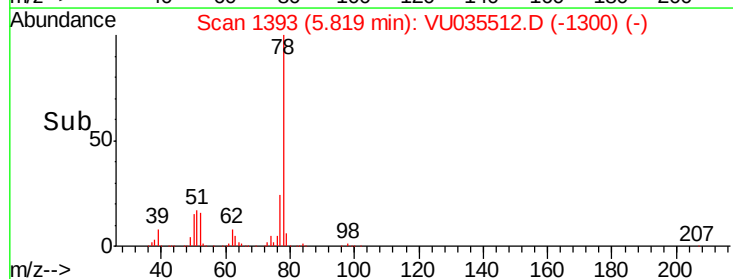
200000

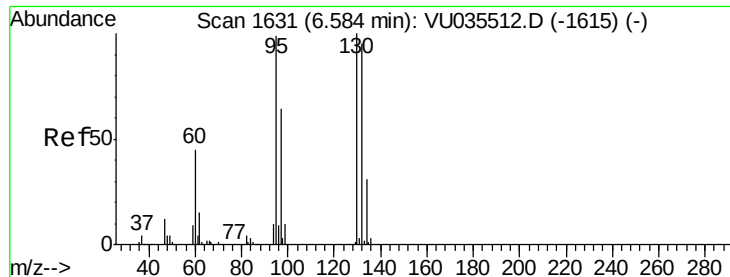
100000

0

Time-->

5.70 5.80 5.90





#34

Trichloroethene

Concen: 51.291 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 219803

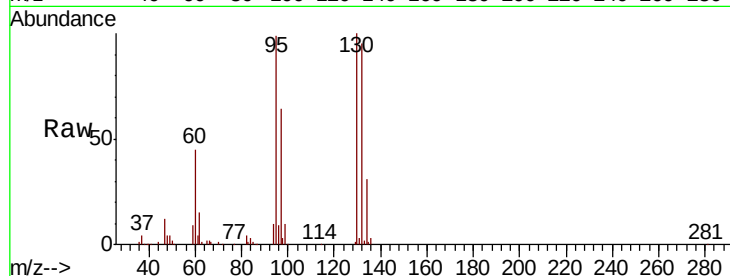
Ion Ratio Lower Upper

95 100

97 64.4 45.1 83.7

132 96.0 67.2 124.8

130 100.8 70.6 131.0

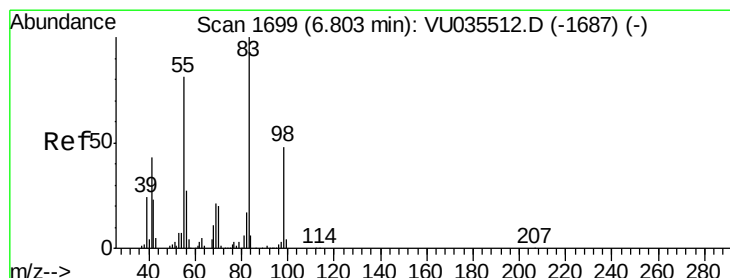
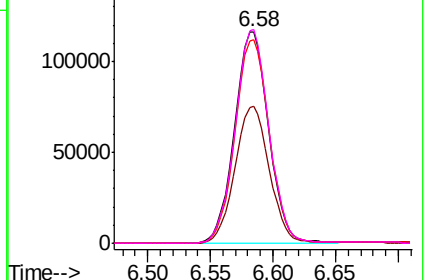
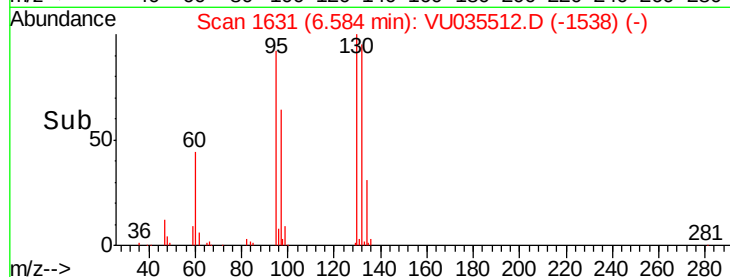


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 47.938 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

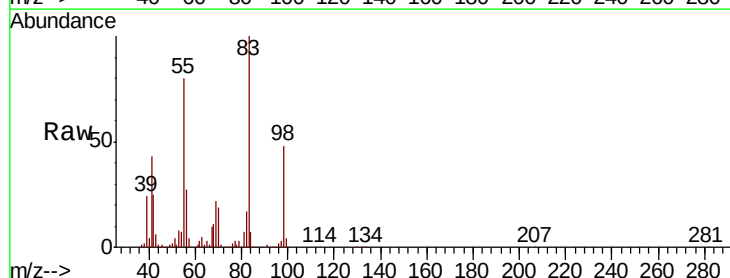
Tgt Ion: 83 Resp: 312772

Ion Ratio Lower Upper

83 100

55 81.4 65.1 97.7

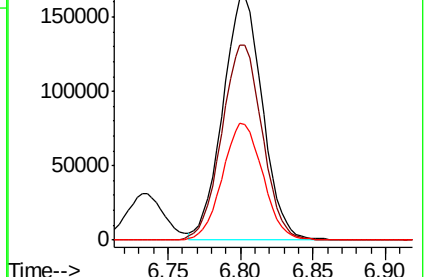
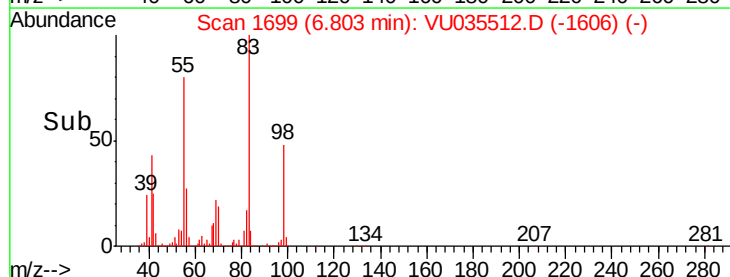
98 48.6 38.9 58.3

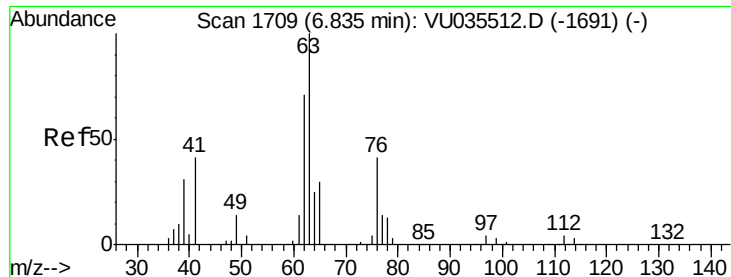


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

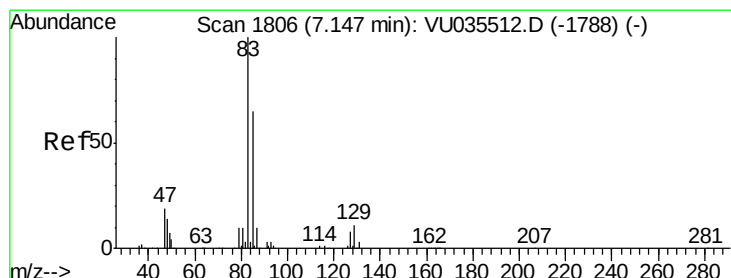
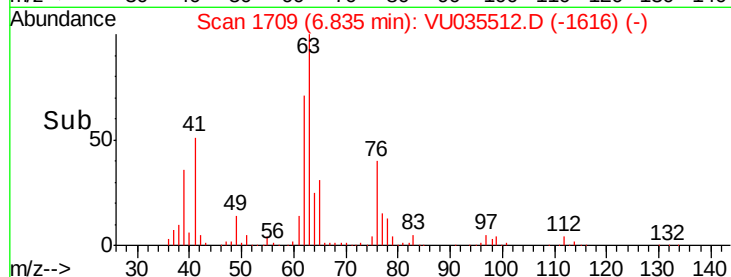
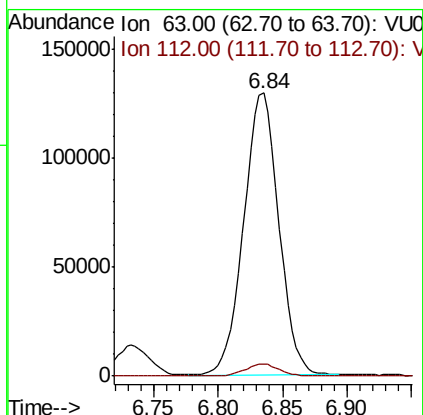
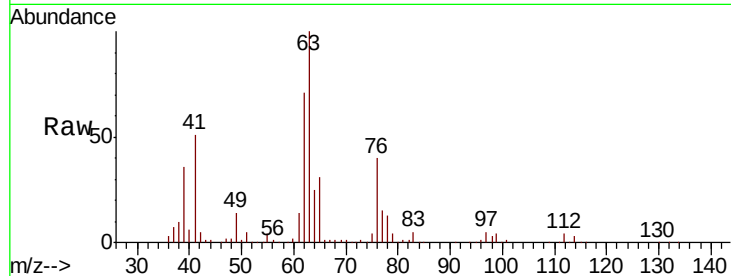




#37
 1,2-Dichloropropane
 Concen: 55.906 ug/L
 RT: 6.84 min Scan# 1709
 Delta R.T. 0.00 min
 Lab File: VU035512.D
 Acq: 26 Oct 2019 12:28

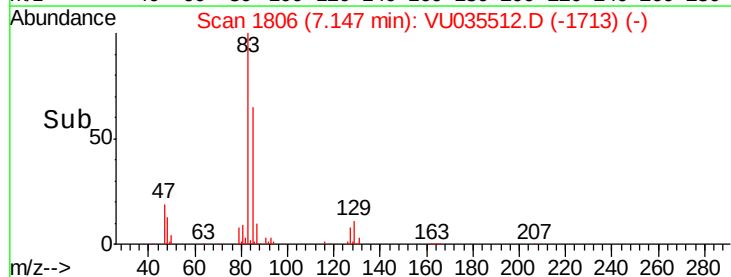
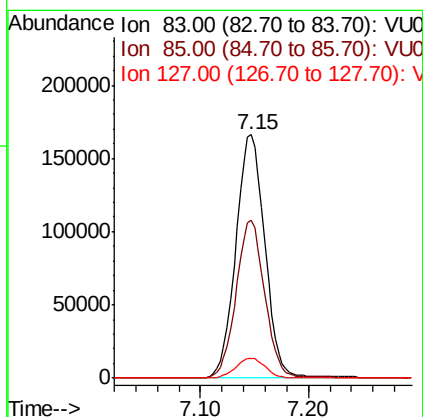
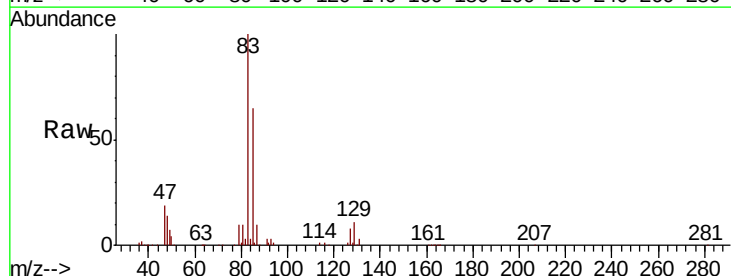
Instrument :
 MSVOA_U
 ClientSampled :

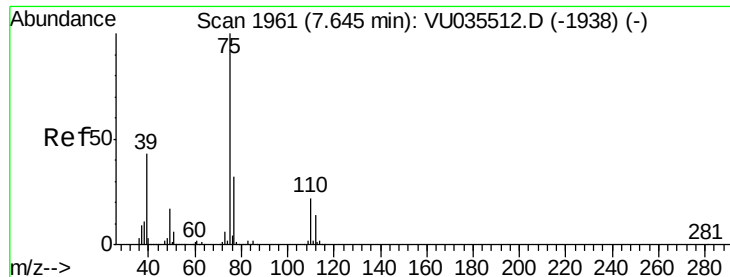
Tot Ion: 63 Resp: 246099
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.4 5.0



#38
 Bromodichloromethane
 Concen: 53.369 ug/L
 RT: 7.15 min Scan# 1806
 Delta R.T. 0.00 min
 Lab File: VU035512.D
 Acq: 26 Oct 2019 12:28

Tgt Ion: 83 Resp: 310917
 Ion Ratio Lower Upper
 83 100
 85 65.1 45.6 84.6
 127 8.3 6.6 10.0

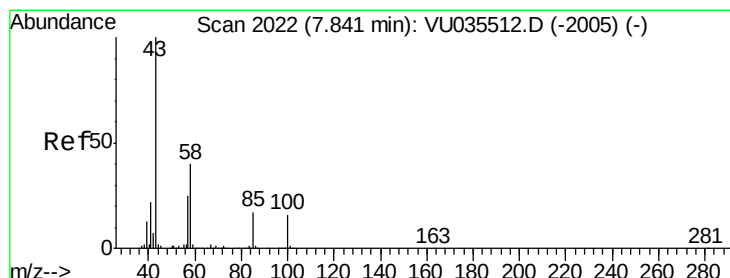
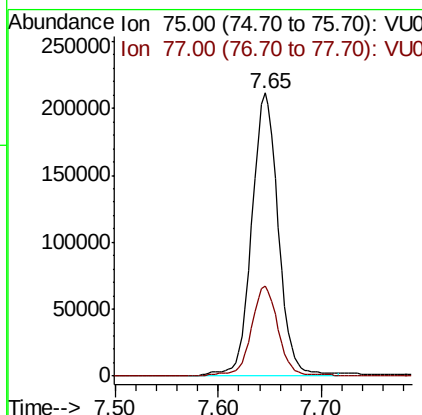
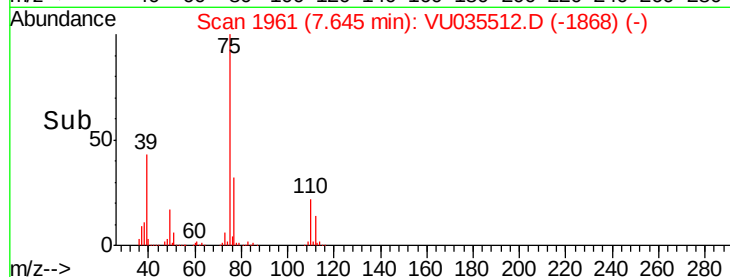
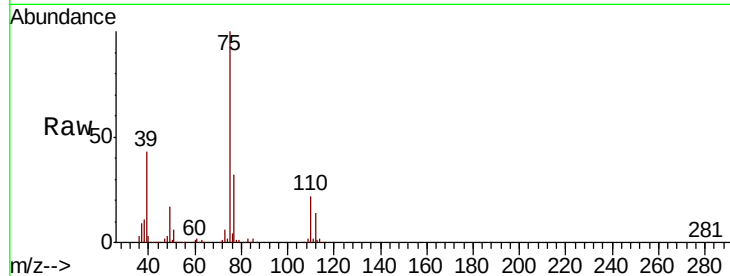




#39
 cis-1,3-Dichloropropene
 Concen: 53.820 ug/L
 RT: 7.65 min Scan# 1961
 Delta R.T. 0.00 min
 Lab File: VU035512.D
 Acq: 26 Oct 2019 12:28

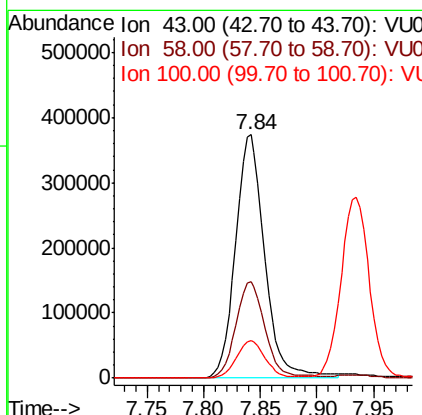
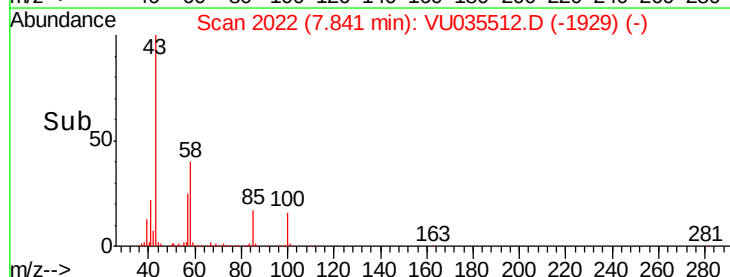
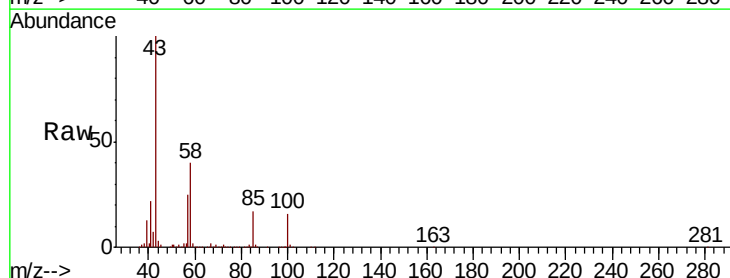
Instrument :
 MSVOA_U
 ClientSampleId :

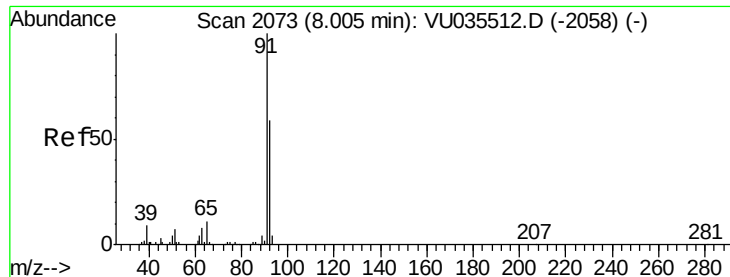
Tot Ion: 75 Resp: 378689
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 104.337 ug/L
 RT: 7.84 min Scan# 2022
 Delta R.T. 0.00 min
 Lab File: VU035512.D
 Acq: 26 Oct 2019 12:28

Tgt Ion: 43 Resp: 673413
 Ion Ratio Lower Upper
 43 100
 58 39.9 31.9 47.9
 100 15.4 12.3 18.5





#42

Toluene

Concen: 52.487 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

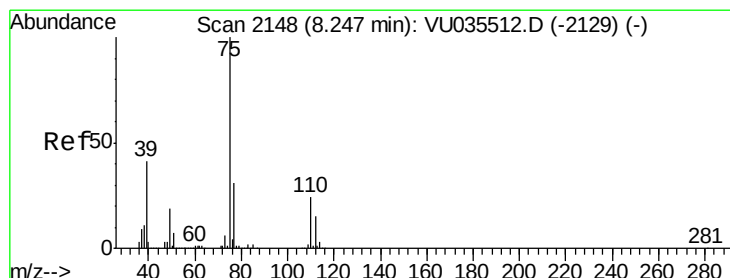
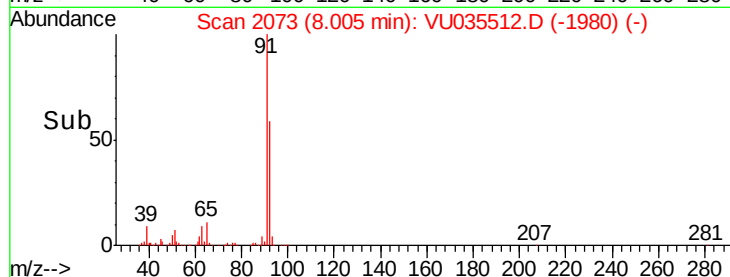
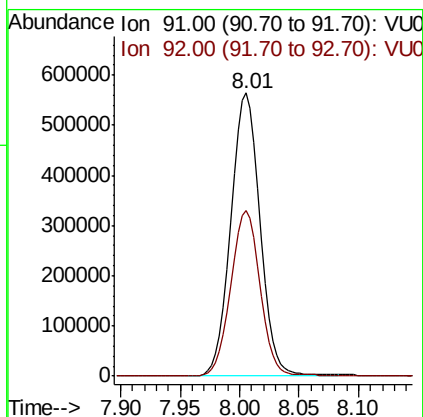
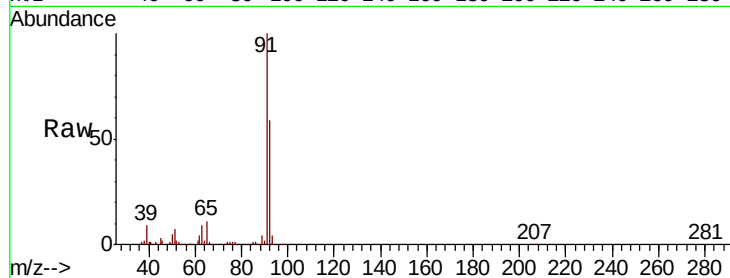
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 962681

Ion Ratio Lower Upper

91 100

92 58.6 41.0 76.2



#44

trans-1,3-Dichloropropene

Concen: 52.606 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VU035512.D

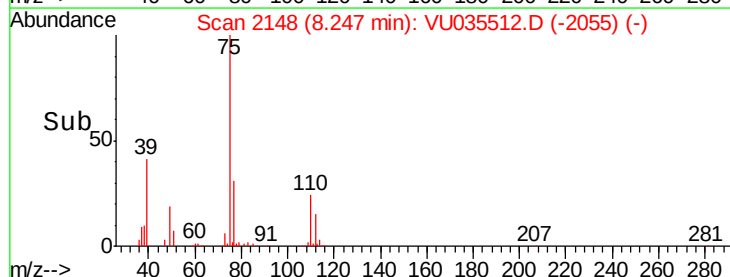
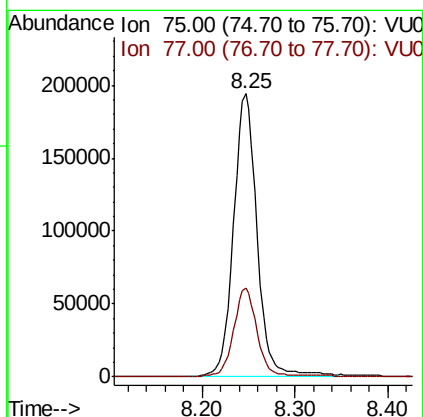
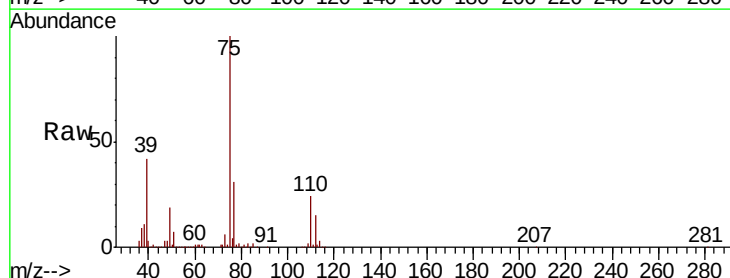
Acq: 26 Oct 2019 12:28

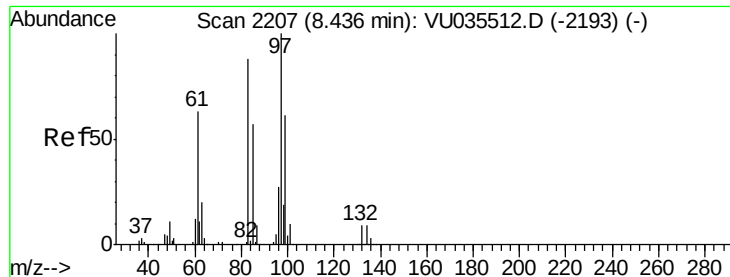
Tgt Ion: 75 Resp: 343957

Ion Ratio Lower Upper

75 100

77 31.3 21.9 40.7





#45

1,1,2-Trichloroethane

Concen: 52.869 ug/L

RT: 8.44 min Scan# 2207

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 97 Resp: 226866

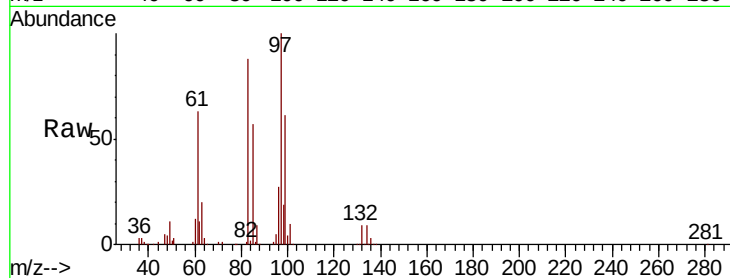
Ion Ratio Lower Upper

97 100

99 61.0 42.7 79.3

83 88.1 61.7 114.5

85 57.5 40.3 74.8

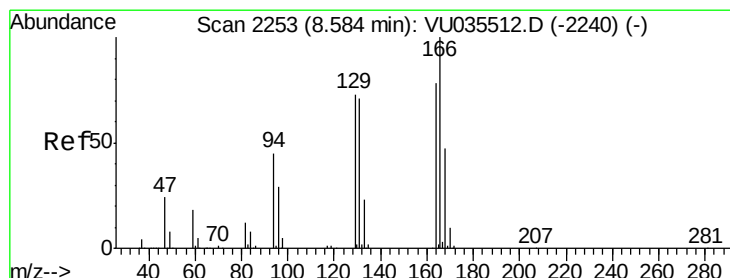
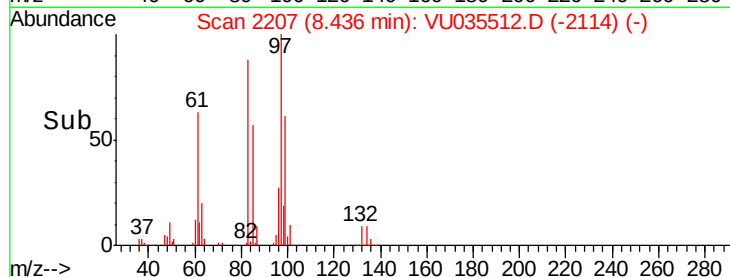
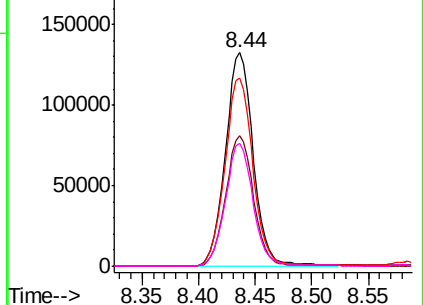


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 50.346 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

Tgt Ion: 164 Resp: 173692

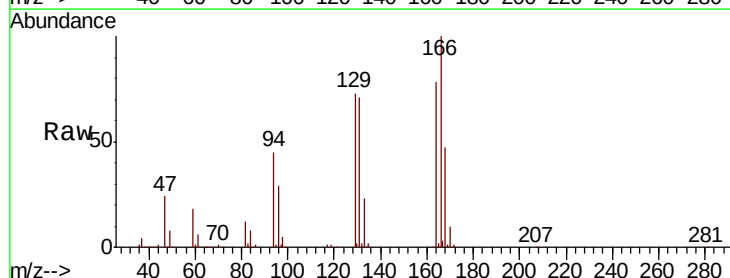
Ion Ratio Lower Upper

164 100

129 94.1 65.9 122.3

131 90.8 63.6 118.0

166 128.3 89.8 166.8

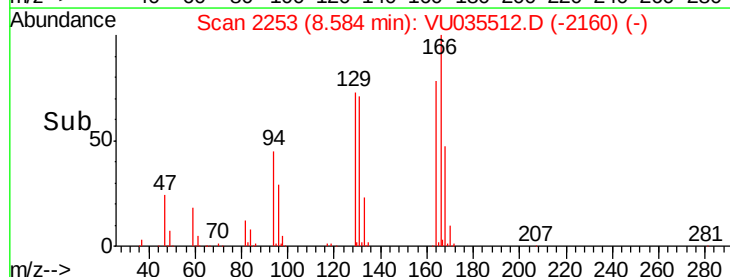
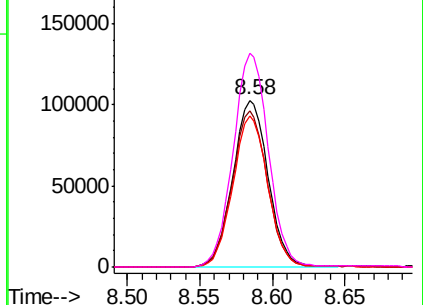


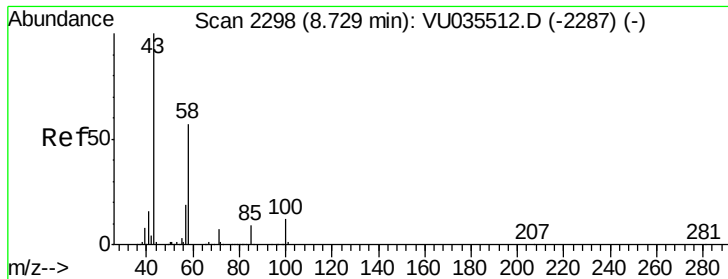
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

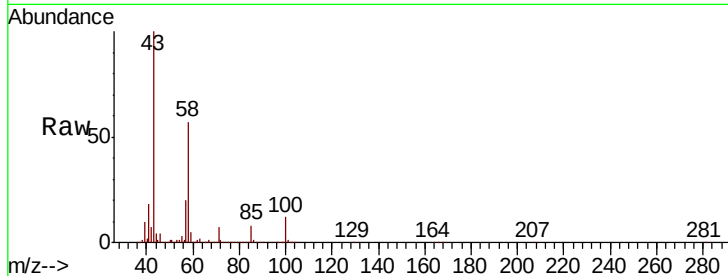




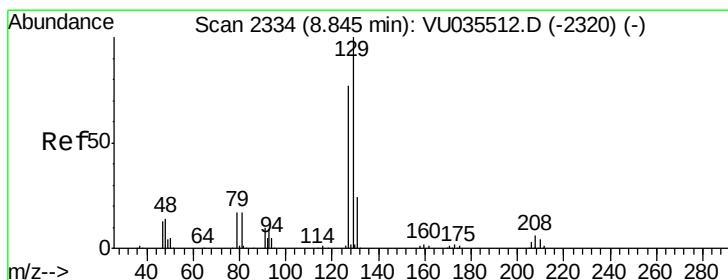
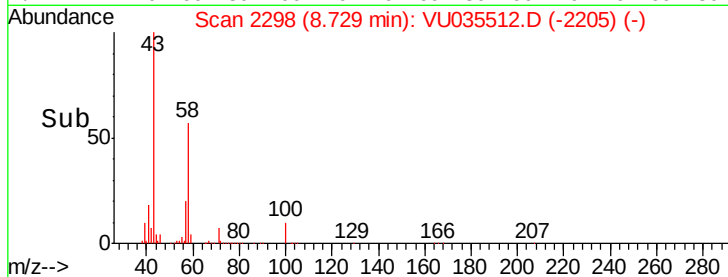
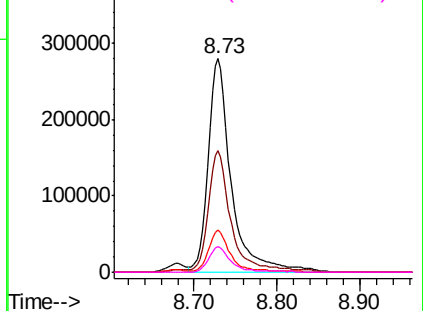
#48
2-Hexanone
Concen: 99.986 ug/L
RT: 8.73 min Scan# 2298
Delta R.T. 0.00 min
Lab File: VU035512.D
Acq: 26 Oct 2019 12:28

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	43	Resp:	546300
Ion	Ratio	Lower	Upper
43	100		
58	57.0	45.6	68.4
57	17.6	14.1	21.1
100	11.5	9.2	13.8

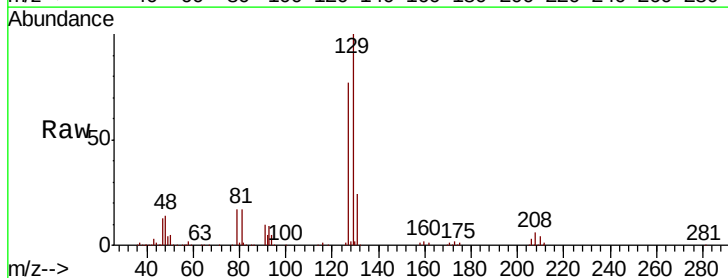


Abundance Ion 43.00 (42.70 to 43.70): VU035512.D (-2287) (-)
Ion 58.00 (57.70 to 58.70): VU035512.D (-2287) (-)
Ion 57.00 (56.70 to 57.70): VU035512.D (-2287) (-)
Ion 100.00 (99.70 to 100.70): VU035512.D (-2287) (-)

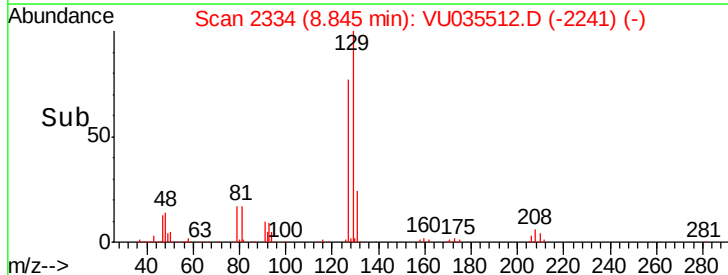
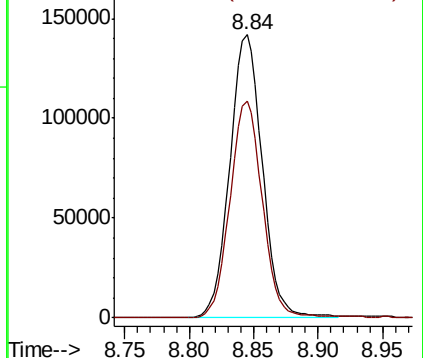


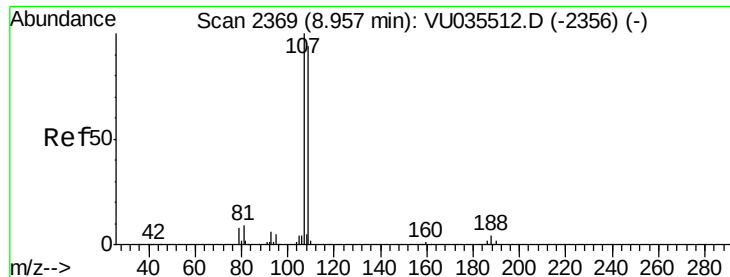
#49
Dibromochloromethane
Concen: 52.304 ug/L
RT: 8.84 min Scan# 2334
Delta R.T. 0.00 min
Lab File: VU035512.D
Acq: 26 Oct 2019 12:28

Tgt Ion:	129	Resp:	249017
Ion	Ratio	Lower	Upper
129	100		
127	76.7	53.7	99.7



Abundance Ion 129.00 (128.70 to 129.70): VU035512.D (-2320) (-)
Ion 127.00 (126.70 to 127.70): VU035512.D (-2320) (-)

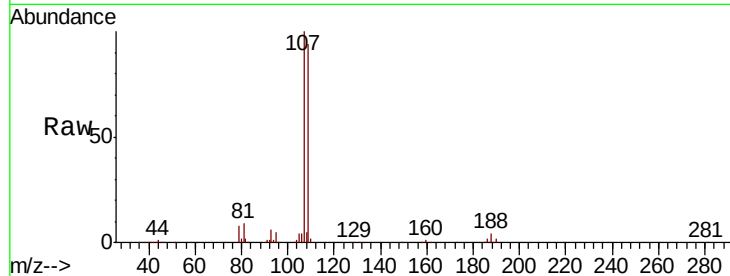




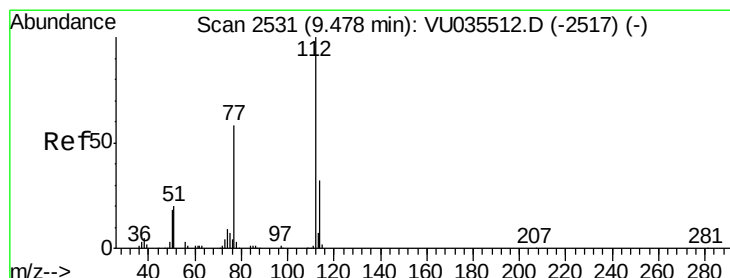
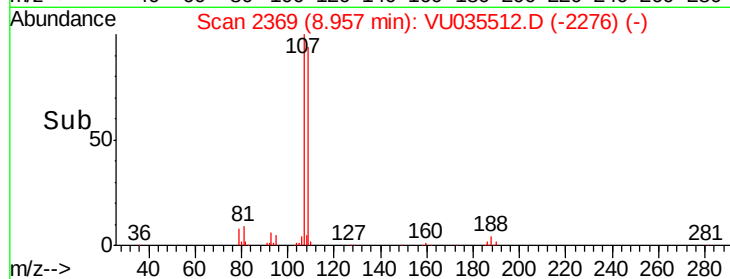
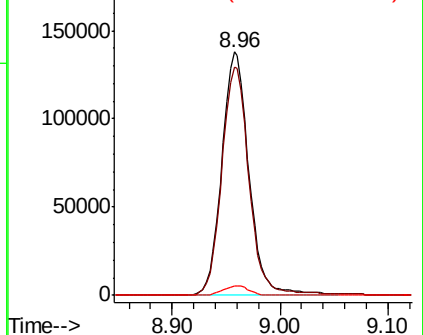
#50
1,2-Dibromoethane
Concen: 51.360 ug/L
RT: 8.96 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VU035512.D
Acq: 26 Oct 2019 12:28

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.9	65.7	122.1
188	3.9	3.1	4.7

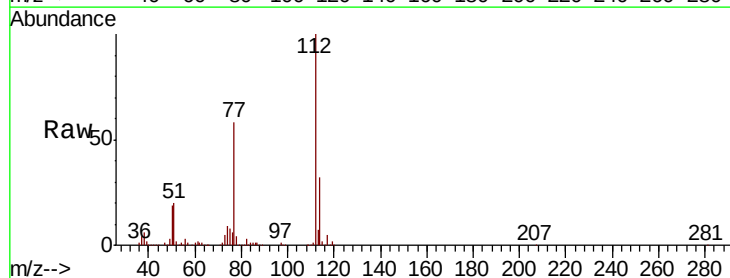


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

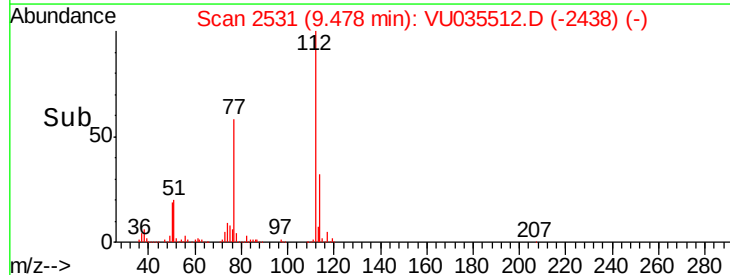
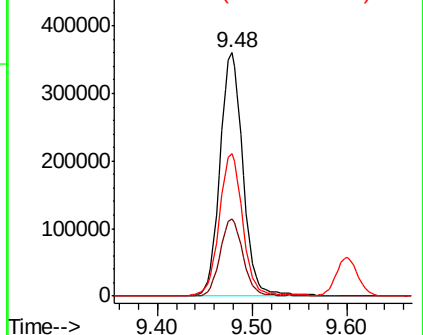


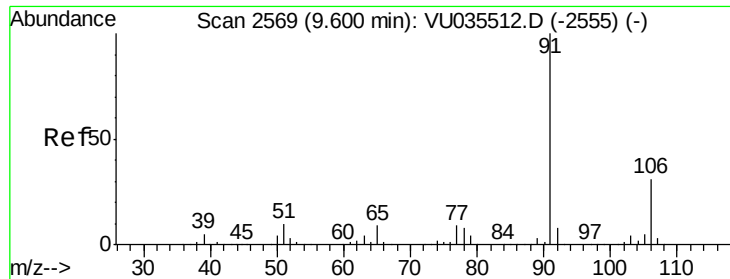
#51
Chlorobenzene
Concen: 51.077 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU035512.D
Acq: 26 Oct 2019 12:28

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.1	41.1
77	58.4	46.7	70.1



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 50.705 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

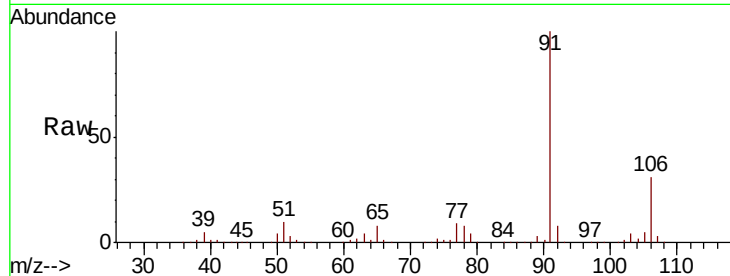
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 1029499

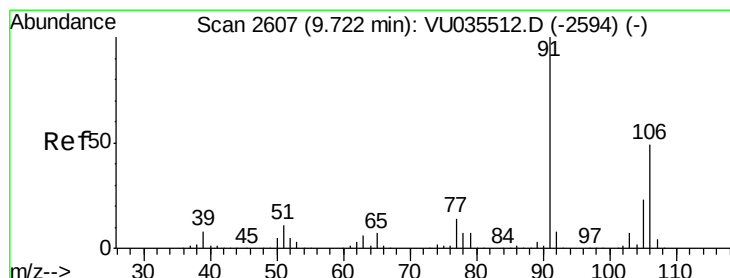
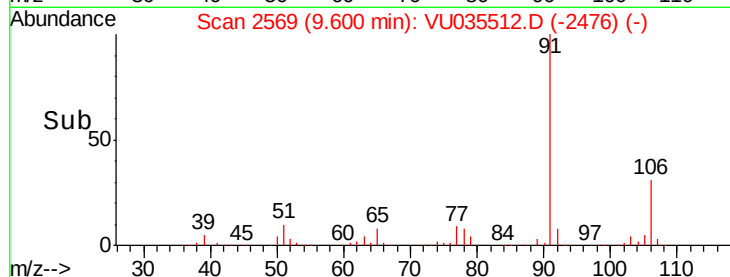
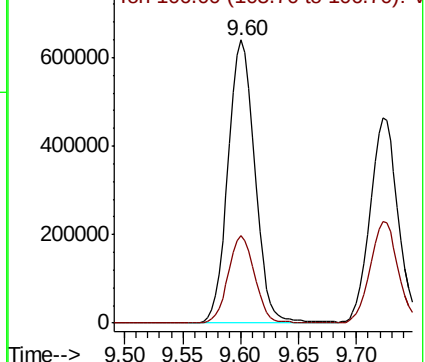
Ion Ratio Lower Upper

91 100

106 30.8 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VU035512.D (-2555) (-)



#53

m,p-Xylene

Concen: 51.820 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU035512.D

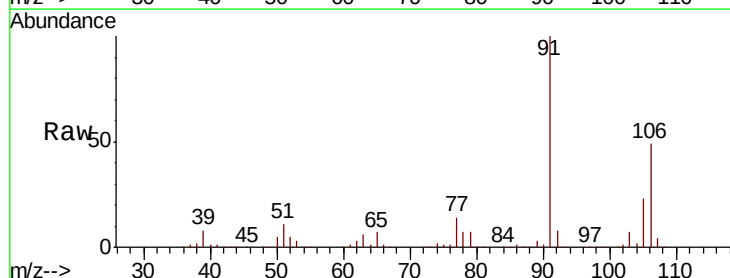
Acq: 26 Oct 2019 12:28

Tgt Ion: 106 Resp: 390418

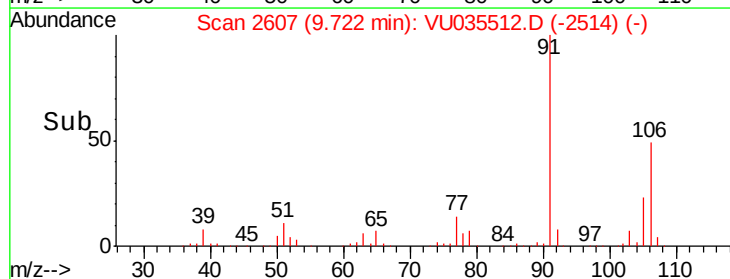
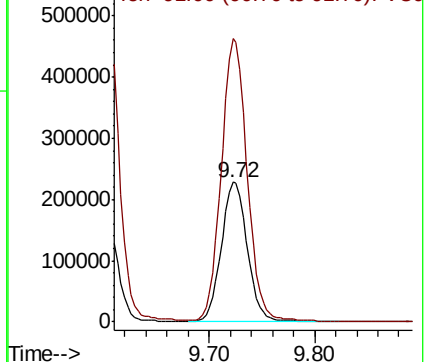
Ion Ratio Lower Upper

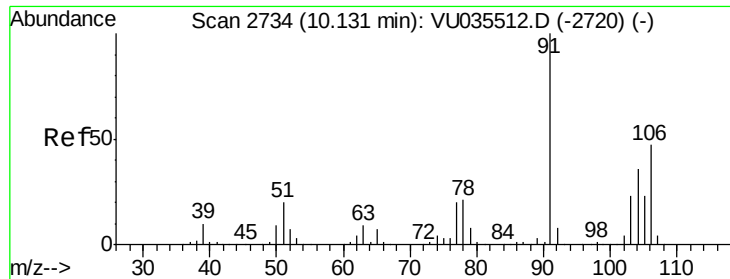
106 100

91 202.5 141.7 263.3



Abundance Ion 106.00 (105.70 to 106.70): VU035512.D (-2594) (-)





#54

o-xylene

Concen: 51.319 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

Instrument :

MSVOA_U

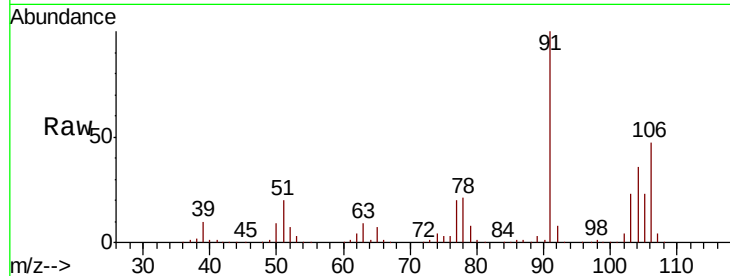
ClientSampleId :

Tot Ion:106 Resp: 380481

Ion Ratio Lower Upper

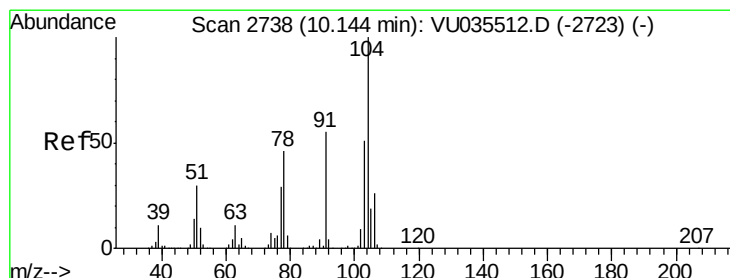
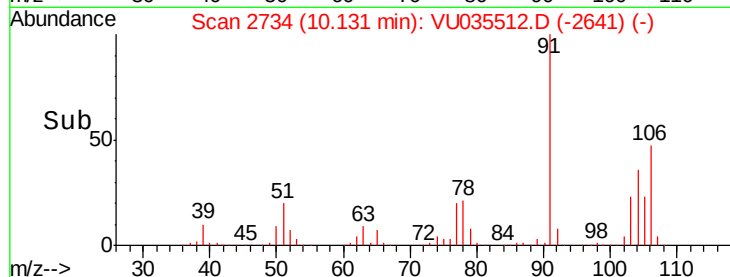
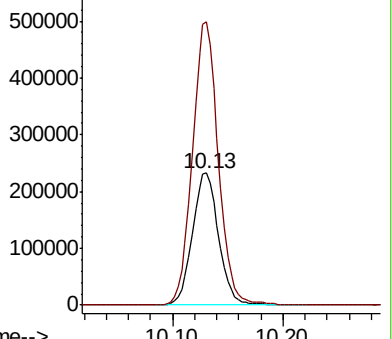
106 100

91 214.7 150.3 279.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.415 ug/L

RT: 10.14 min Scan# 2738

Delta R.T. 0.00 min

Lab File: VU035512.D

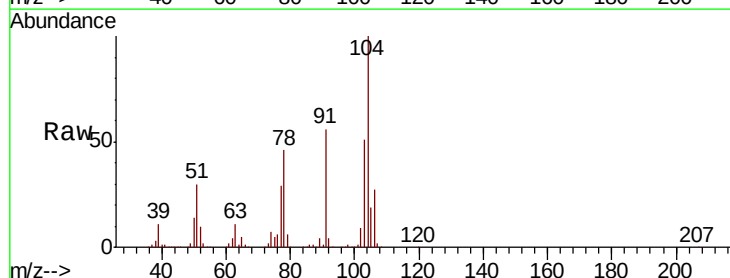
Acq: 26 Oct 2019 12:28

Tgt Ion:104 Resp: 633169

Ion Ratio Lower Upper

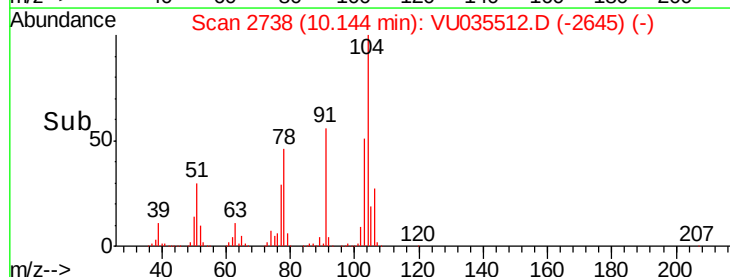
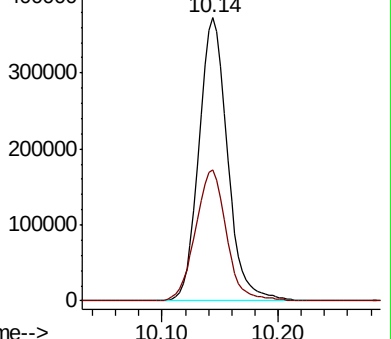
104 100

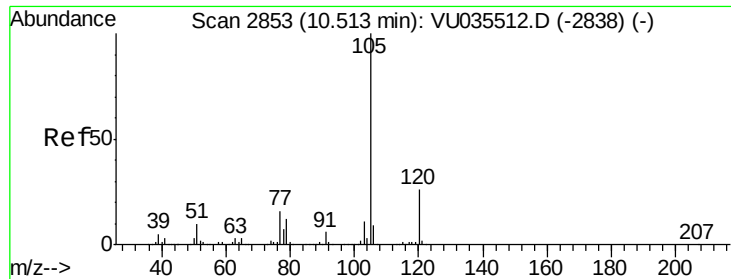
78 46.1 32.3 59.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 49.619 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

Instrument :

MSVOA_U

ClientSampled :

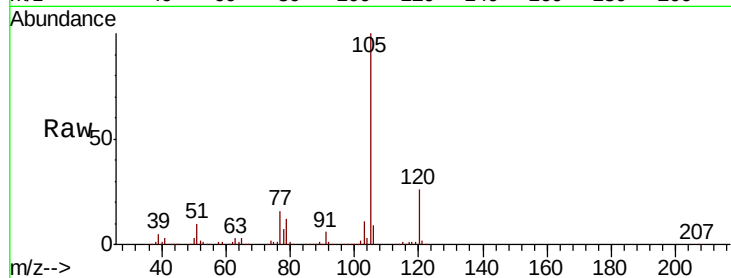
Tot Ion:105 Resp: 946632

Ion Ratio Lower Upper

105 100

120 26.2 21.0 31.4

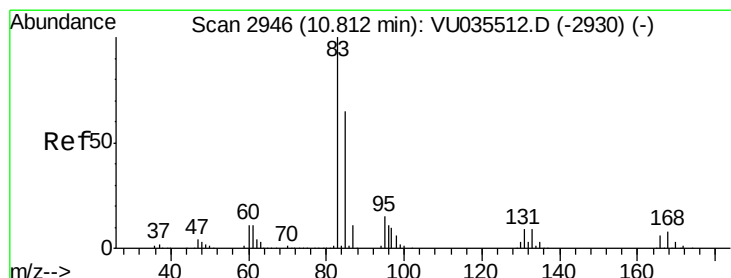
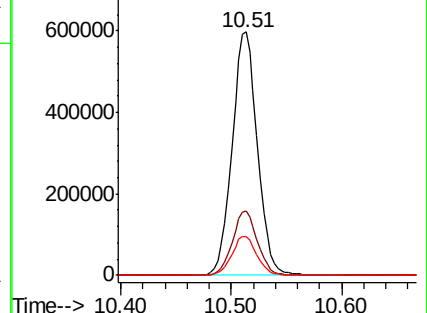
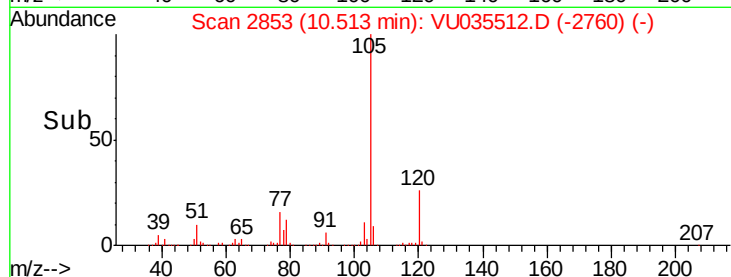
77 16.0 12.8 19.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 52.887 ug/L

RT: 10.81 min Scan# 2946

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

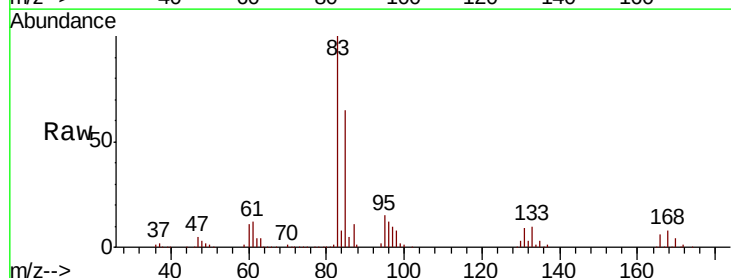
Tgt Ion: 83 Resp: 396443

Ion Ratio Lower Upper

83 100

85 64.9 45.4 84.4

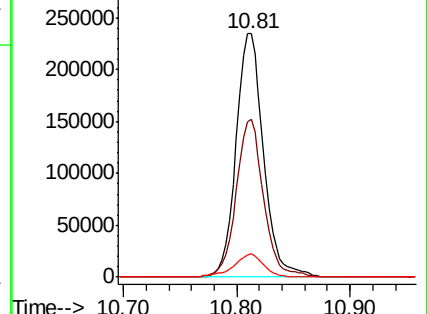
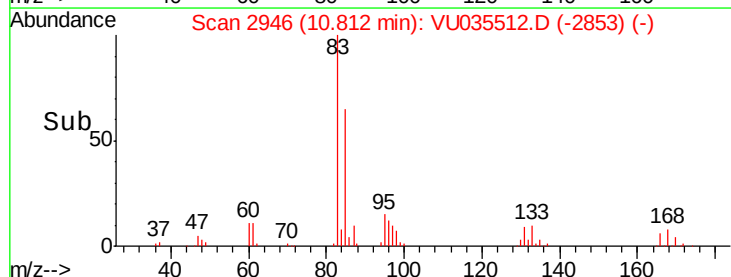
131 9.4 7.5 11.3

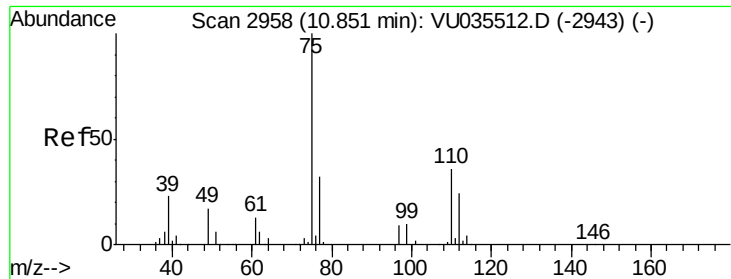


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

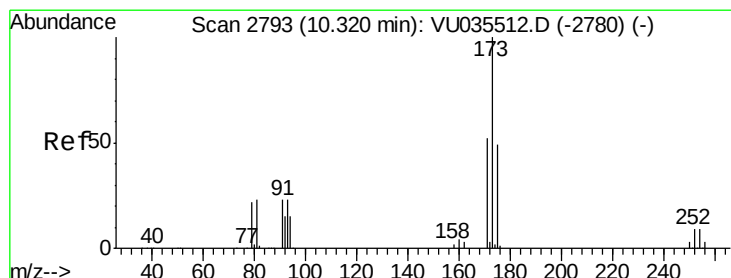
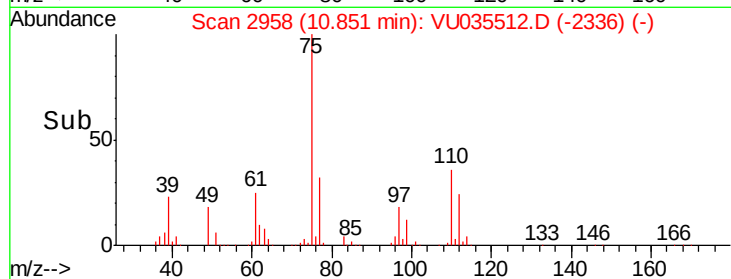
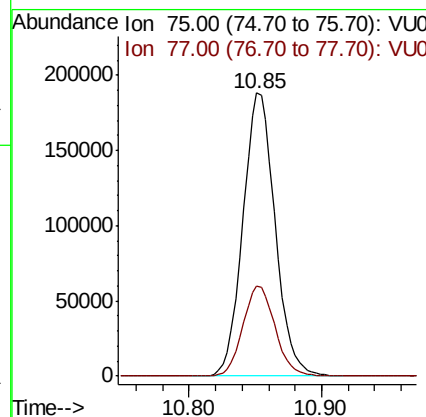
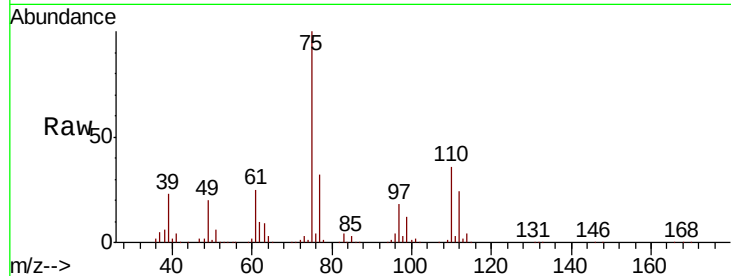




#59
 1,2,3-Trichloropropane
 Concen: 53.266 ug/L
 RT: 10.85 min Scan# 2958
 Delta R.T. 0.00 min
 Lab File: VU035512.D
 Acq: 26 Oct 2019 12:28

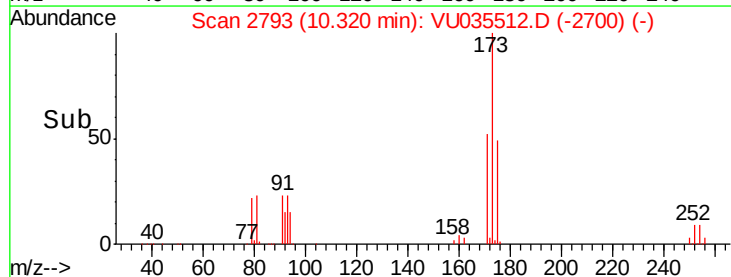
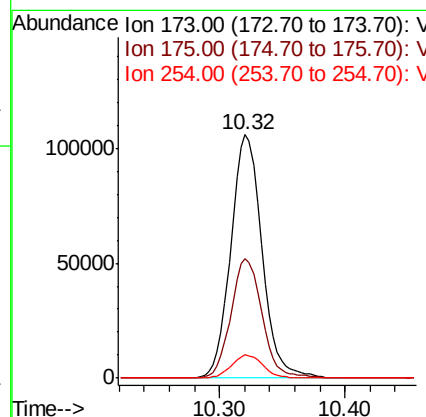
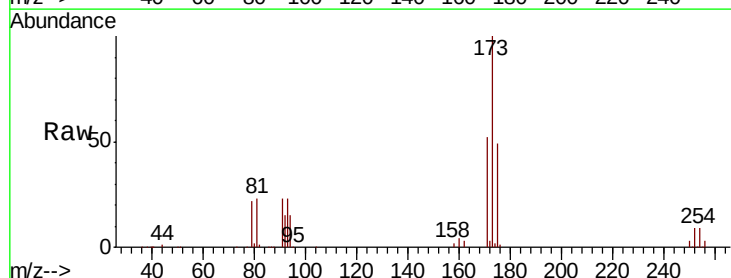
Instrument :
 MSVOA_U
 ClientSampleId :

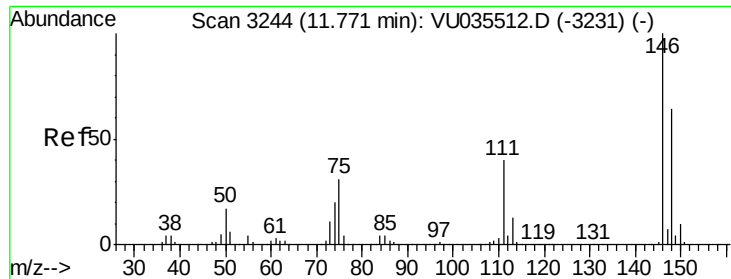
Tot Ion: 75 Resp: 317051
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.4 38.2



#61
 Bromoform
 Concen: 48.701 ug/L
 RT: 10.32 min Scan# 2793
 Delta R.T. 0.00 min
 Lab File: VU035512.D
 Acq: 26 Oct 2019 12:28

Tgt Ion: 173 Resp: 183028
 Ion Ratio Lower Upper
 173 100
 175 49.1 39.3 58.9
 254 9.5 7.6 11.4





#62

1,3-Dichlorobenzene

Concen: 48.663 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. 0.00 min

Lab File: VU035512.D

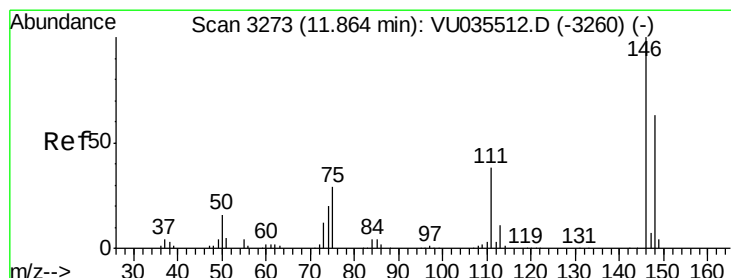
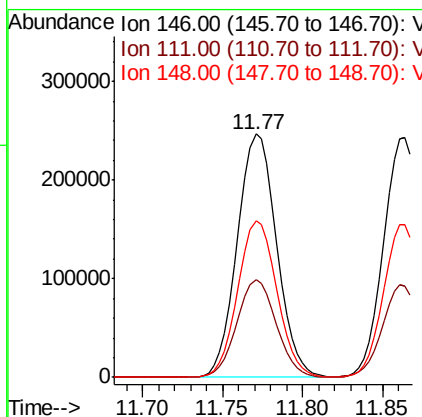
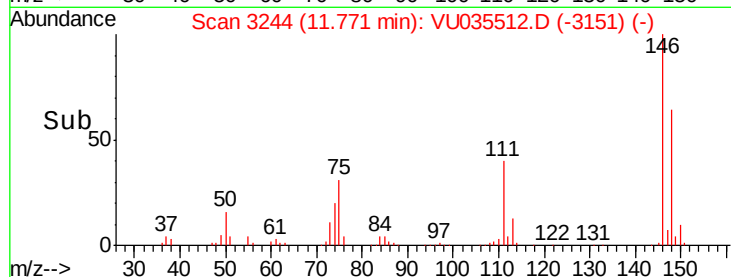
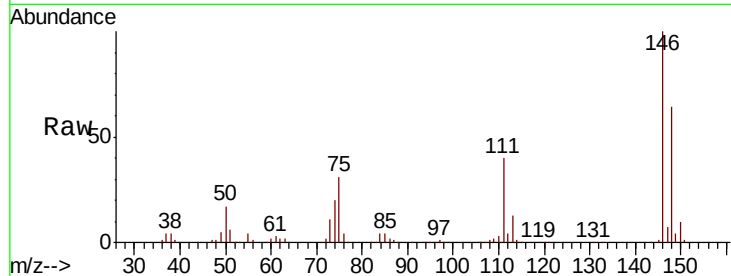
Acq: 26 Oct 2019 12:28

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:146	Resp:	414001
Ion Ratio	Lower	Upper
146	100	
111	40.1	28.1 52.1
148	64.3	45.0 83.6



#63

1,4-Dichlorobenzene

Concen: 47.932 ug/L

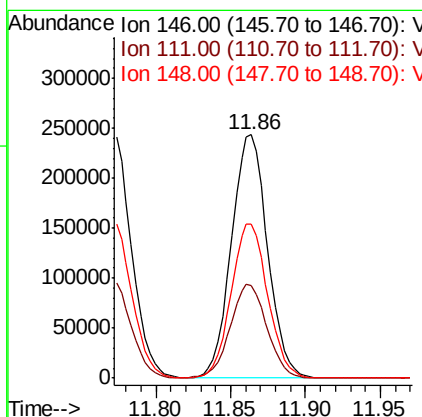
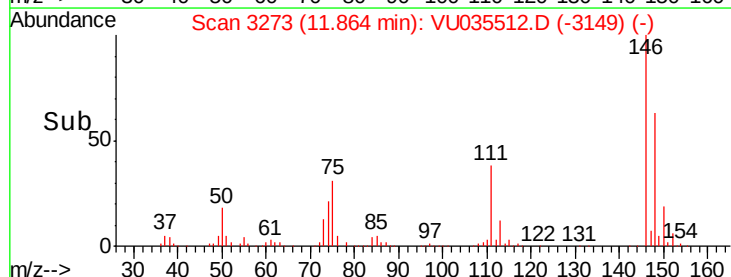
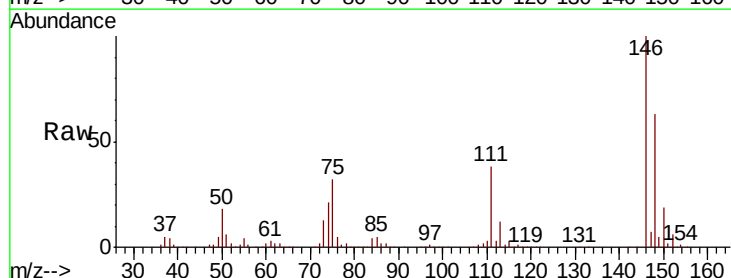
RT: 11.86 min Scan# 3273

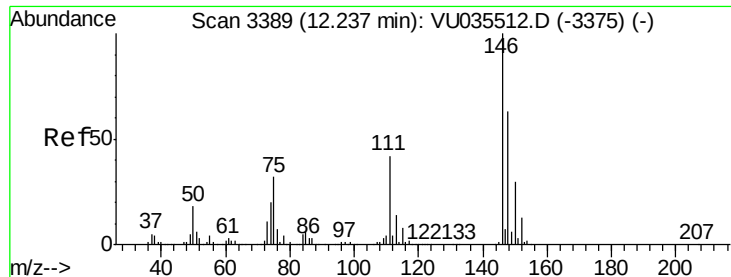
Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

Tgt Ion:146	Resp:	408892
Ion Ratio	Lower	Upper
146	100	
111	38.1	26.7 49.5
148	63.4	44.4 82.4





#65

1,2-Dichlorobenzene

Concen: 48.819 ug/L

RT: 12.24 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

Instrument :

MSVOA_U

ClientSampleId :

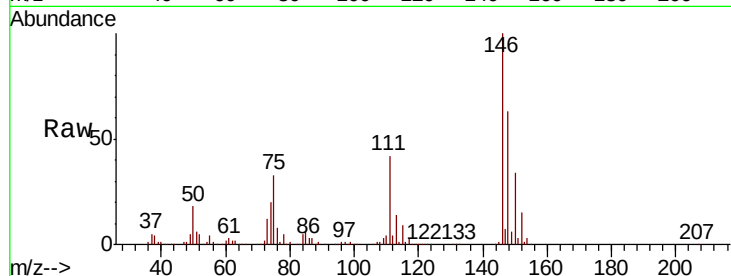
Tot Ion:146 Resp: 414901

Ion Ratio Lower Upper

146 100

111 42.0 33.6 50.4

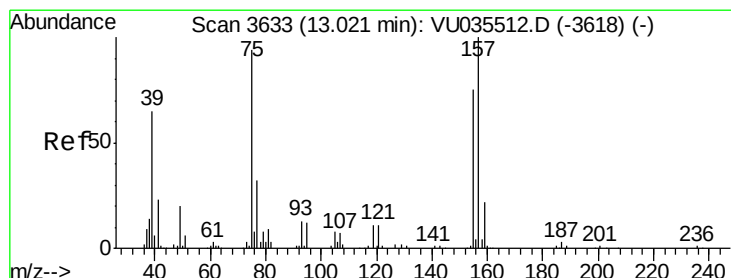
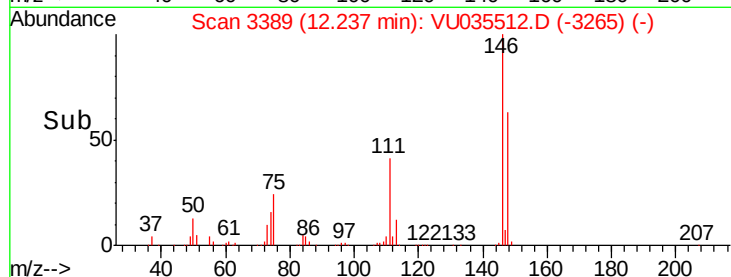
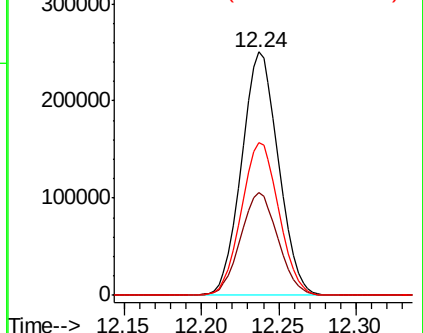
148 62.9 50.3 75.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 49.969 ug/L

RT: 13.02 min Scan# 3633

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

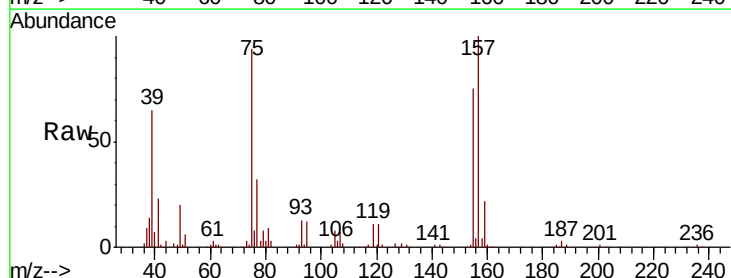
Tgt Ion: 75 Resp: 67454

Ion Ratio Lower Upper

75 100

155 80.3 64.2 96.4

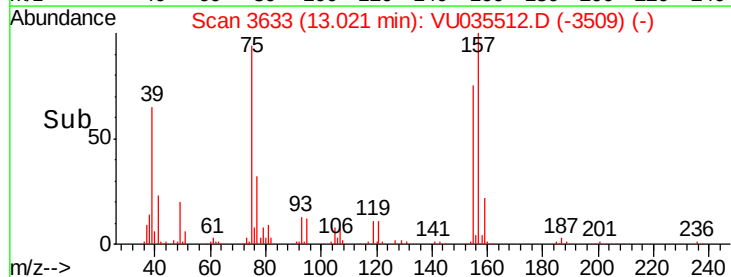
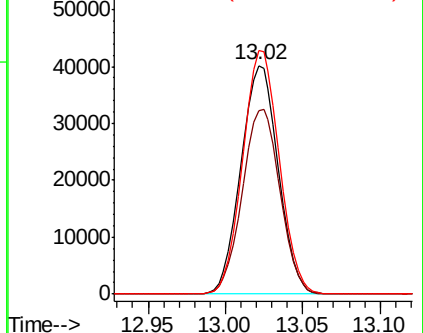
157 106.4 85.1 127.7

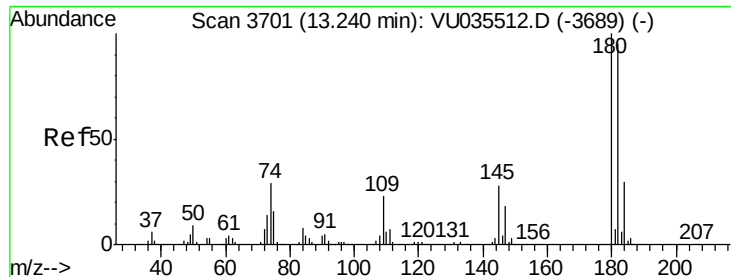


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

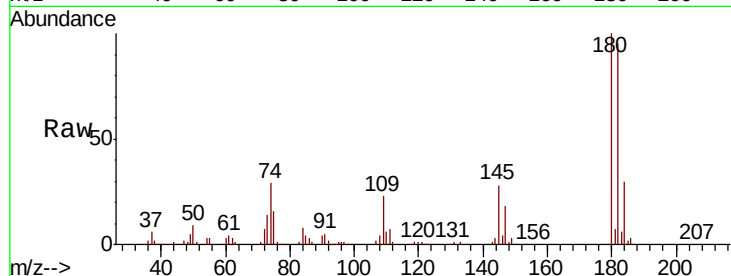




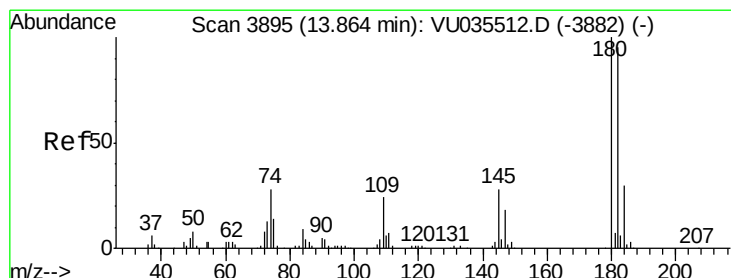
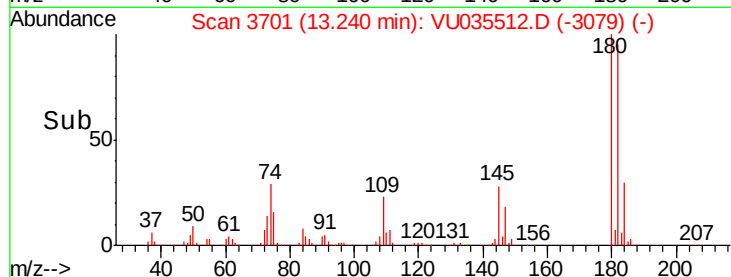
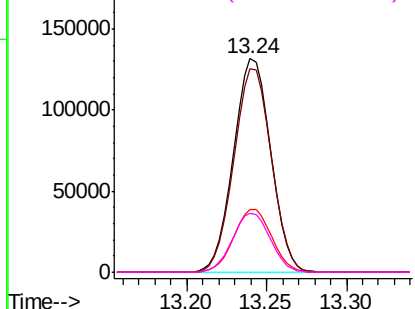
#67
 1,3,5-Trichlorobenzene
 Concen: 44.758 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU035512.D
 Acq: 26 Oct 2019 12:28

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180	Resp:	208451
Ion Ratio	Lower	Upper
180	100	
182	95.7	76.6 114.8
184	29.9	23.9 35.9
145	28.0	22.4 33.6

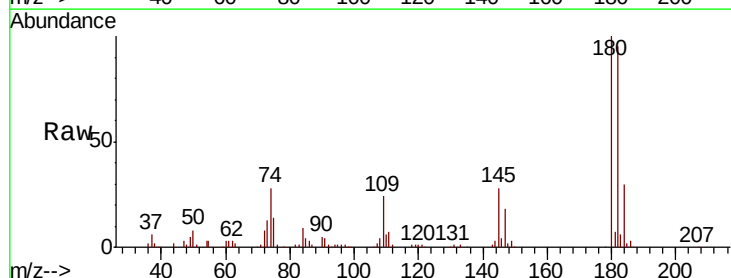


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

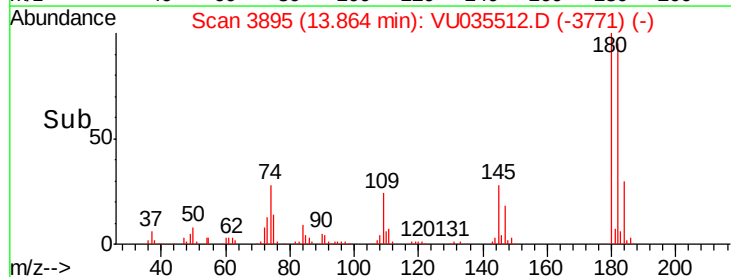
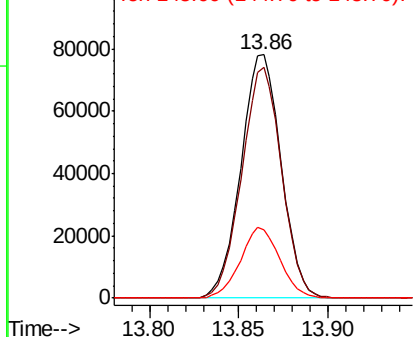


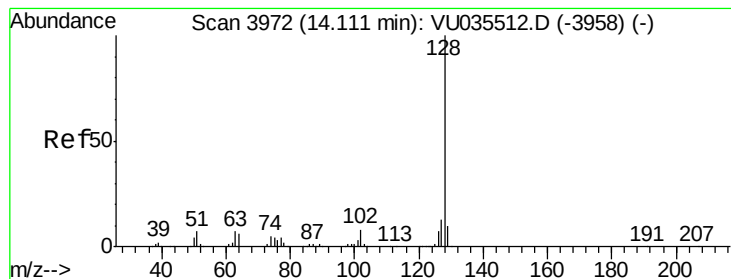
#68
 1,2,4-trichlorobenzene
 Concen: 40.512 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. 0.00 min
 Lab File: VU035512.D
 Acq: 26 Oct 2019 12:28

Tgt Ion:180	Resp:	122898
Ion Ratio	Lower	Upper
180	100	
182	93.7	75.0 112.4
145	28.3	22.6 34.0



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 37.041 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

Instrument :

MSVOA_U

ClientSampleId :

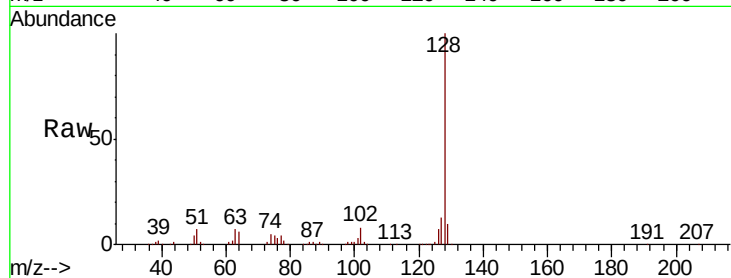
Tot Ion:128 Resp: 310911

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

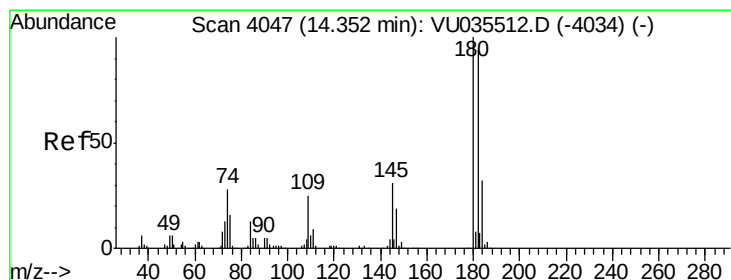
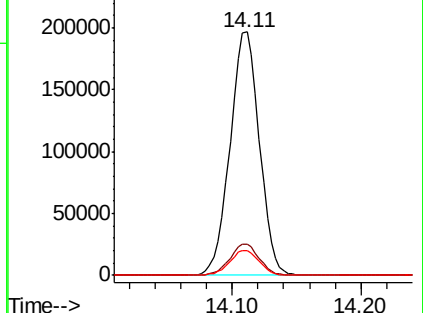
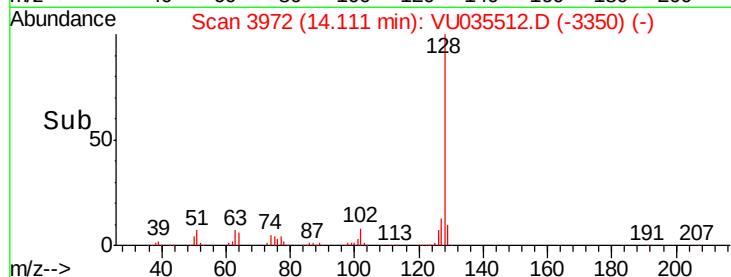
129 10.5 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 41.643 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. 0.00 min

Lab File: VU035512.D

Acq: 26 Oct 2019 12:28

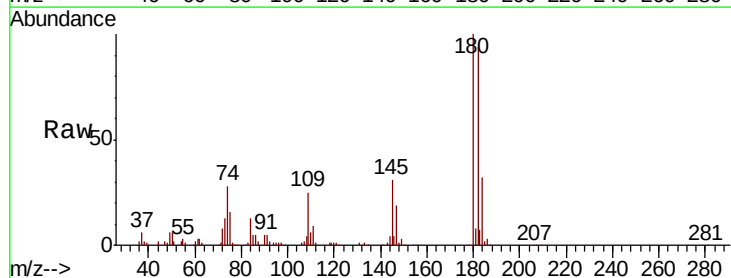
Tgt Ion:180 Resp: 130770

Ion Ratio Lower Upper

180 100

182 95.0 76.0 114.0

145 31.1 24.9 37.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

