

Data File : VU035301.D
Acq On : 19 Oct 2019 07:38
Operator : JC/SP
Sample : VSTD05036
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

Quant Time: Oct 21 04:49:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM101919WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Oct 21 04:45:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	654282	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	639111	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	290683	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	282499	50.00	ug/L	0.00
7) Chloroethane-d5	1.93	69	238596	50.00	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.60	63	464909	50.00	ug/L	0.00
21) 2-Butanone-d5	4.70	46	369925	100.00	ug/L	0.00
24) Chloroform-d	5.11	84	465502	50.00	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	296057	50.00	ug/L	0.00
32) Benzene-d6	5.77	84	935782	50.00	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.74	67	295825	50.00	ug/L	0.00
41) Toluene-d8	7.93	98	886907	50.00	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	154928	50.00	ug/L	0.00
47) 2-Hexanone-d5	8.68	63	256162	100.00	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.79	84	430244	50.00	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.22	152	315627	50.00	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.39	85	263748	50.000	ug/L	100
3) Chloromethane	1.54	50	266421	50.000	ug/L	100
5) Vinyl chloride	1.62	62	276186	50.000	ug/L	100
6) Bromomethane	1.87	94	161050	50.000	ug/L	100
8) Chloroethane	1.95	64	169919	50.000	ug/L	100
9) Trichlorofluoromethane	2.16	101	350217	50.000	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	207372	50.000	ug/L	100
12) 1,1-Dichloroethene	2.61	96	198163	50.000	ug/L	100
13) Acetone	2.67	43	336292	100.000	ug/L	100
14) Carbon disulfide	2.83	76	606526	50.000	ug/L	100
15) Methyl Acetate	3.00	43	241503	50.000	ug/L	100
16) Methylene chloride	3.09	84	234656	50.000	ug/L	100
17) trans-1,2-Dichloroethene	3.40	96	213099	50.000	ug/L	100
18) Methyl tert-butyl Ether	3.42	73	682965	50.000	ug/L	100
19) 1,1-Dichloroethane	3.92	63	409220	50.000	ug/L	100
20) cis-1,2-Dichloroethene	4.72	96	240907	50.000	ug/L	100
22) 2-Butanone	4.77	43	404960	100.000	ug/L	100
23) Bromochloromethane	5.02	128	121107	50.000	ug/L	100
25) Chloroform	5.14	83	418524	50.000	ug/L	100
27) 1,2-Dichloroethane	5.84	62	327740	50.000	ug/L	100
29) Cyclohexane	5.43	56	359252	50.000	ug/L	100
30) 1,1,1-Trichloroethane	5.37	97	350968	50.000	ug/L	100
31) Carbon tetrachloride	5.57	117	307392	50.000	ug/L	100
33) Benzene	5.82	78	913112	50.000	ug/L	100
34) Trichloroethene	6.58	95	233855	50.000	ug/L	100
35) Methylcyclohexane	6.80	83	359626	50.000	ug/L	100
37) 1,2-Dichloropropane	6.84	63	236569	50.000	ug/L	100
38) Bromodichloromethane	7.15	83	313742	50.000	ug/L	100
39) cis-1,3-Dichloropropene	7.65	75	382634	50.000	ug/L	100
40) 4-Methyl-2-pentanone	7.84	43	667230	100.000	ug/L	100

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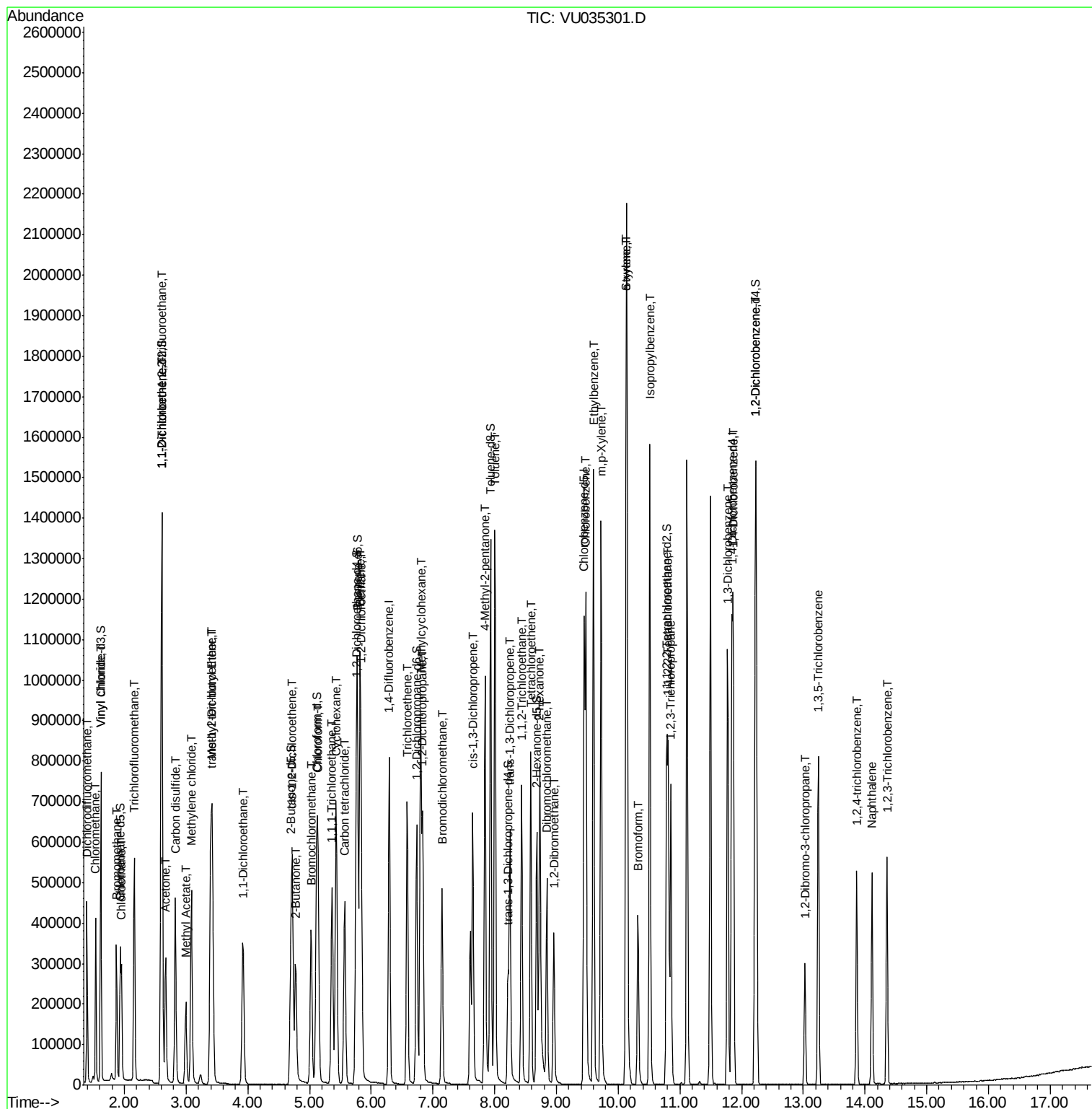
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.01	91	987870	50.000	ug/L	100
44) trans-1,3-Dichloropropene	8.25	75	356689	50.000	ug/L	100
45) 1,1,2-Trichloroethane	8.44	97	229119	50.000	ug/L	100
46) Tetrachloroethene	8.58	164	187967	50.000	ug/L	100
48) 2-Hexanone	8.73	43	552927	100.000	ug/L	100
49) Dibromochloromethane	8.84	129	258738	50.000	ug/L	100
50) 1,2-Dibromoethane	8.96	107	254221	50.000	ug/L	100
51) Chlorobenzene	9.48	112	635867	50.000	ug/L	100
52) Ethylbenzene	9.60	91	1091689	50.000	ug/L	100
53) m,p-Xylene	9.73	106	400745	50.000	ug/L	100
54) o-xylene	10.13	106	406223	50.000	ug/L	100
55) Styrene	10.14	104	674720	50.000	ug/L	100
56) Isopropylbenzene	10.51	105	1041601	50.000	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.81	83	401766	50.000	ug/L	100
59) 1,2,3-Trichloropropane	10.85	75	313922	50.000	ug/L	100
61) Bromoform	10.32	173	200553	50.000	ug/L	100
62) 1,3-Dichlorobenzene	11.77	146	460913	50.000	ug/L	100
63) 1,4-Dichlorobenzene	11.86	146	452087	50.000	ug/L	100
65) 1,2-Dichlorobenzene	12.24	146	460115	50.000	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.02	75	72982	50.000	ug/L	100
67) 1,3,5-Trichlorobenzene	13.24	180	260827	50.000	ug/L	100
68) 1,2,4-trichlorobenzene	13.87	180	165821	50.000	ug/L	100
69) Naphthalene	14.11	128	414135	50.000	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	175000	50.000	ug/L	100

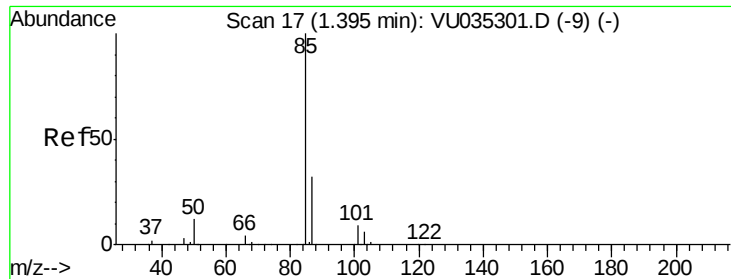
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 50.000 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

Instrument :

MSVOA_U

ClientSampleId :

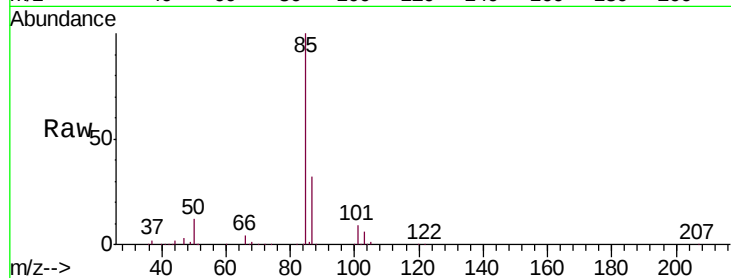
VSTD05036

Tgt Ion: 85 Resp: 263748

Ion Ratio Lower Upper

85 100

87 31.9 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU035301.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU035301.D (-9) (-)

1.39

250000

200000

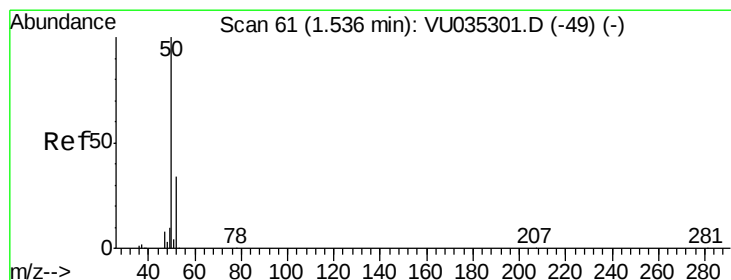
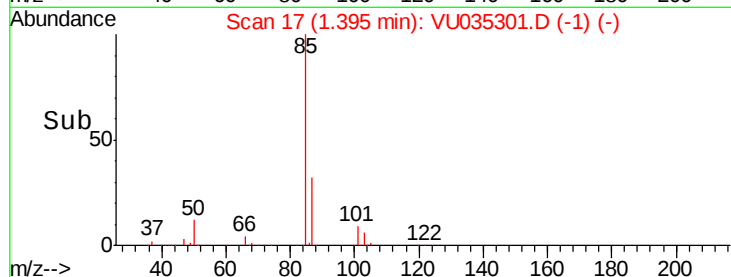
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 50.000 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU035301.D

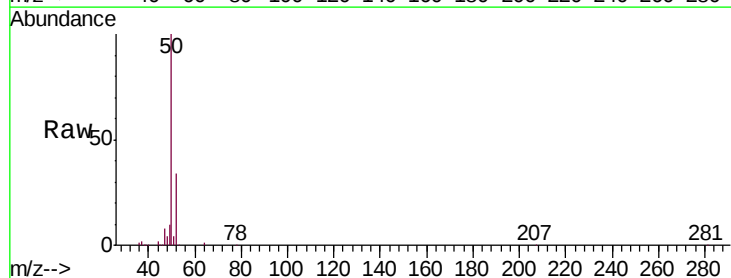
Acq: 19 Oct 2019 07:38

Tgt Ion: 50 Resp: 266421

Ion Ratio Lower Upper

50 100

52 33.7 23.6 43.8



Abundance Ion 50.00 (49.70 to 50.70): VU035301.D (-49) (-)

Ion 52.00 (51.70 to 52.70): VU035301.D (-49) (-)

1.54

250000

200000

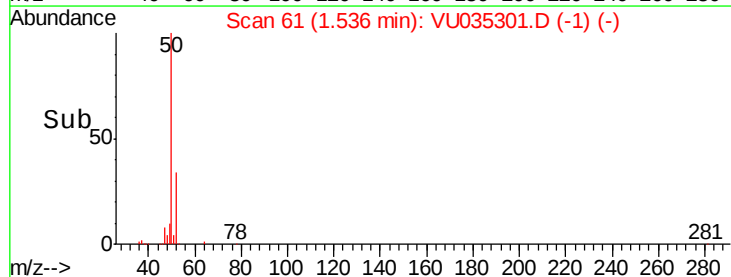
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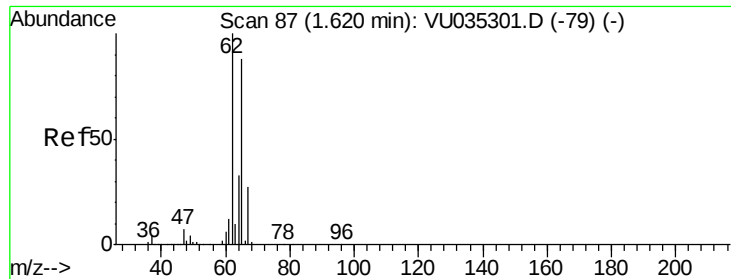
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 50.000 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

Instrument :

MSVOA_U

ClientSampleId :

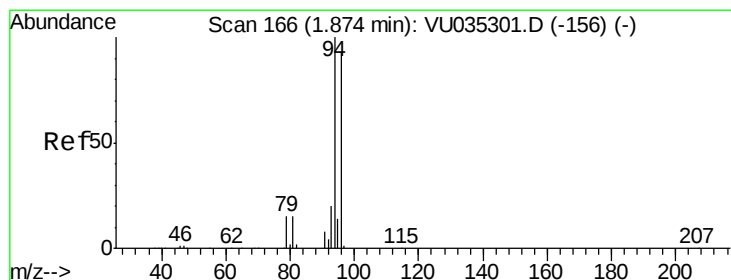
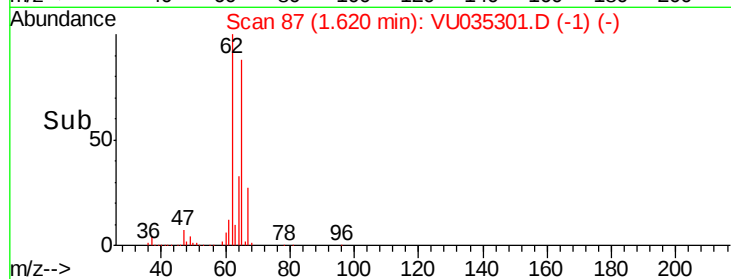
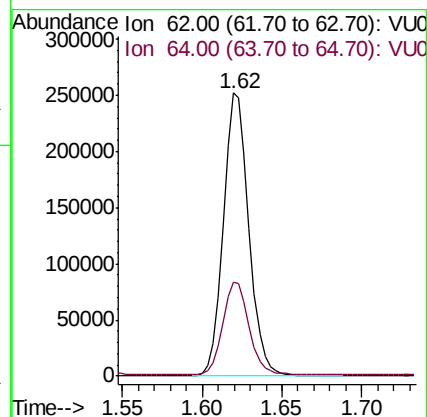
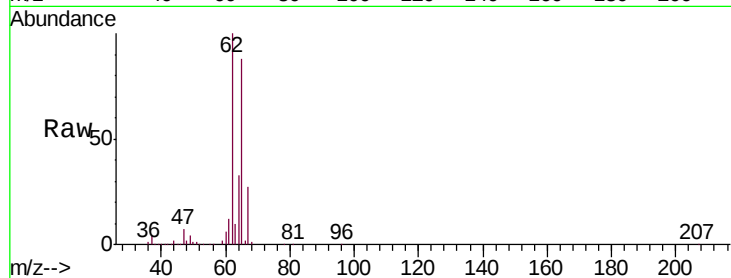
VSTD05036

Tgt Ion: 62 Resp: 276186

Ion Ratio Lower Upper

62 100

64 33.4 23.4 43.4



#6

Bromomethane

Concen: 50.000 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU035301.D

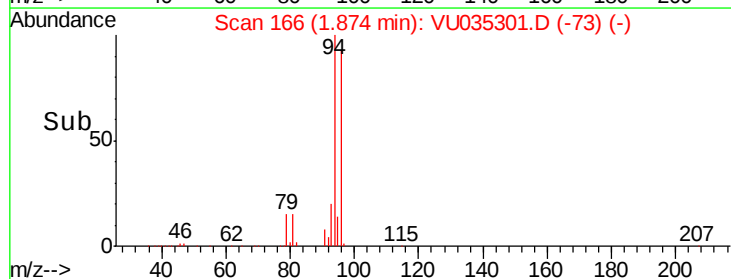
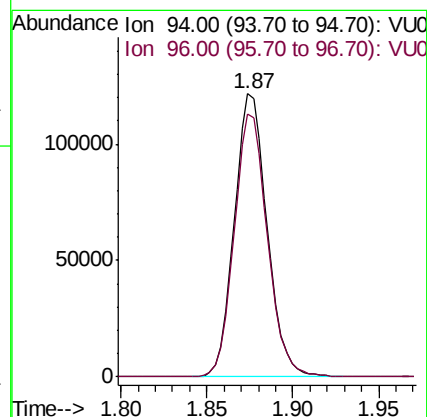
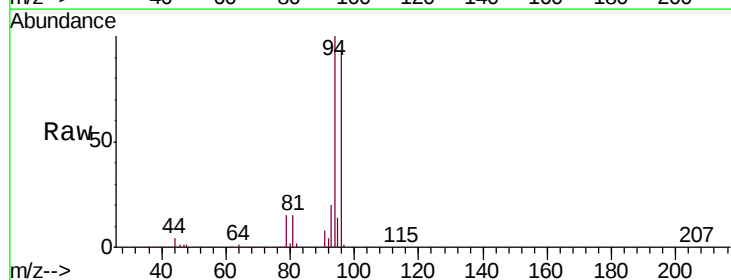
Acq: 19 Oct 2019 07:38

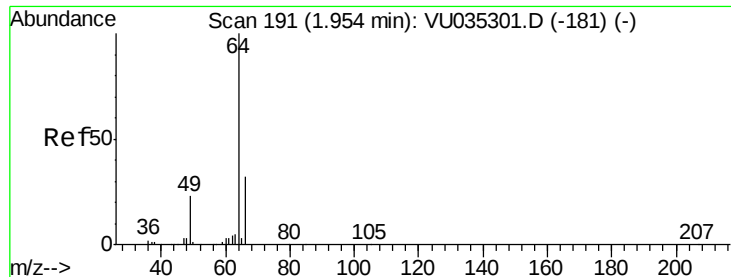
Tgt Ion: 94 Resp: 161050

Ion Ratio Lower Upper

94 100

96 92.9 65.0 120.8

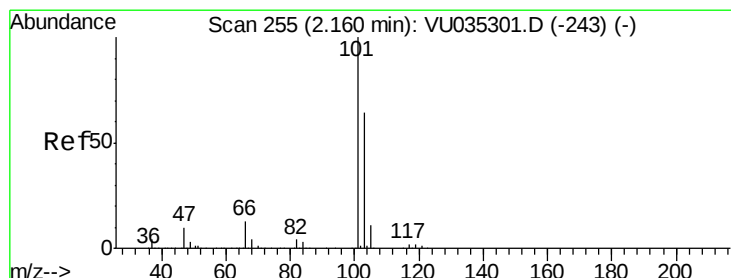
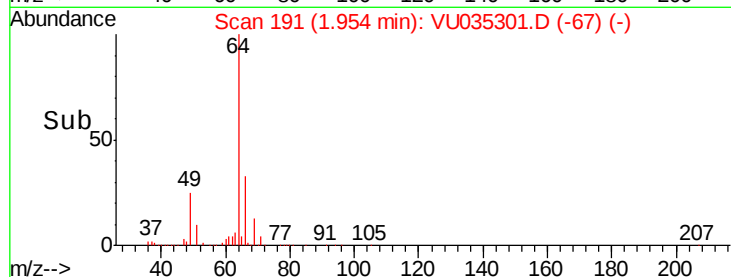
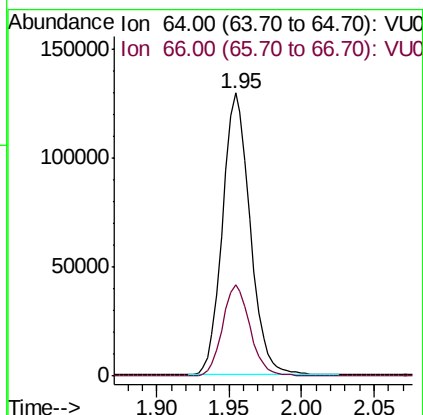
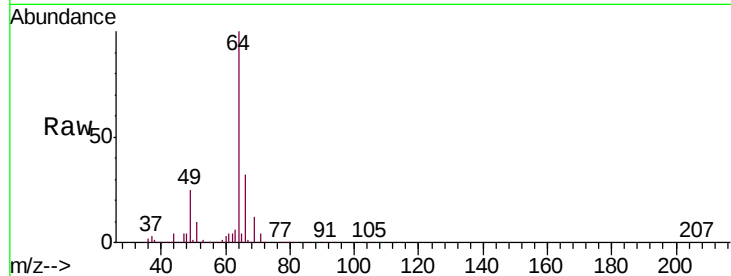




#8
Chloroethane
Concen: 50.000 ug/L
RT: 1.95 min Scan# 191
Delta R.T. 0.00 min
Lab File: VU035301.D
Acq: 19 Oct 2019 07:38

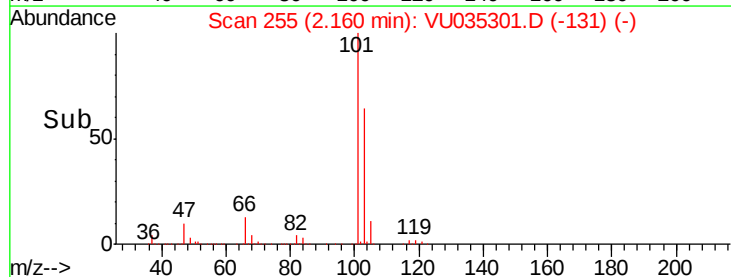
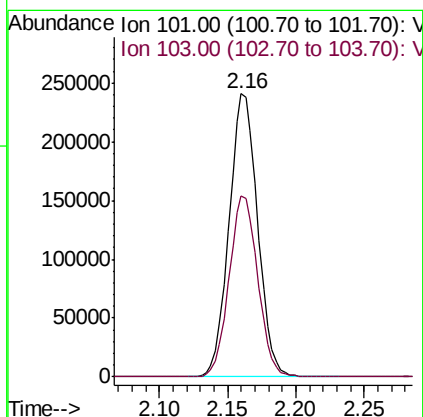
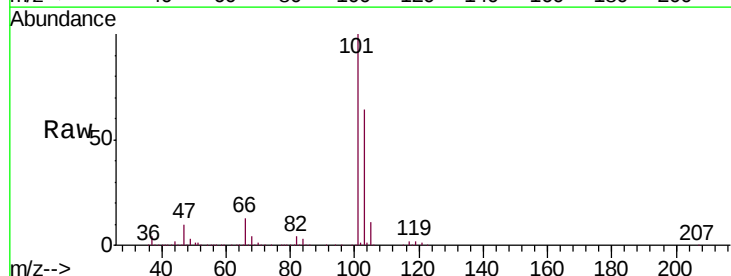
Instrument :
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ClientSampleId :
VSTD05036

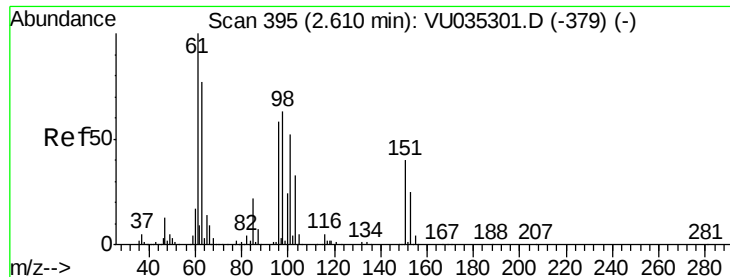
Tgt Ion: 64 Resp: 169919
Ion Ratio Lower Upper
64 100
66 32.2 22.5 41.9



#9
Trichlorofluoromethane
Concen: 50.000 ug/L
RT: 2.16 min Scan# 255
Delta R.T. 0.00 min
Lab File: VU035301.D
Acq: 19 Oct 2019 07:38

Tgt Ion: 101 Resp: 350217
Ion Ratio Lower Upper
101 100
103 64.2 51.4 77.0





#10

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

Concen: 50.000 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

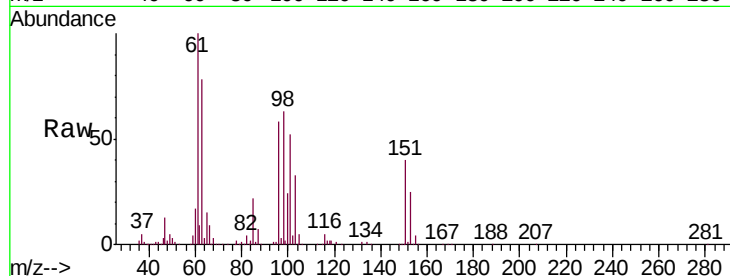
Tgt Ion: 101 Resp: 207372

Ion Ratio Lower Upper

101 100

85 42.1 33.7 50.5

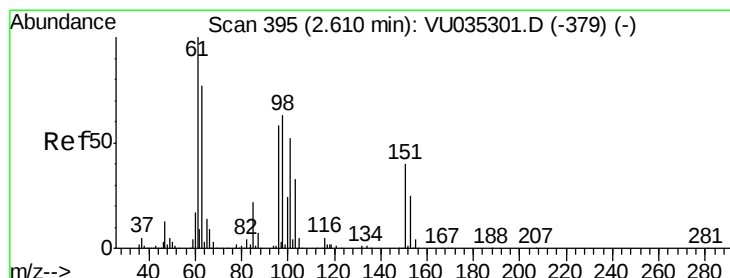
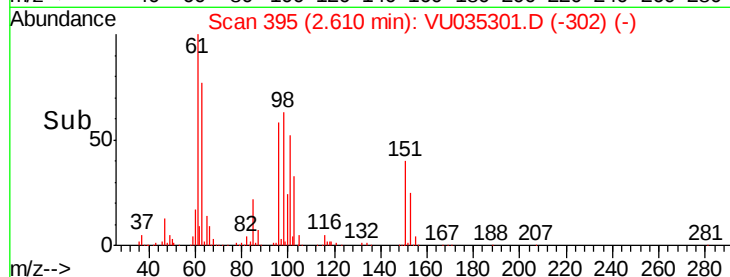
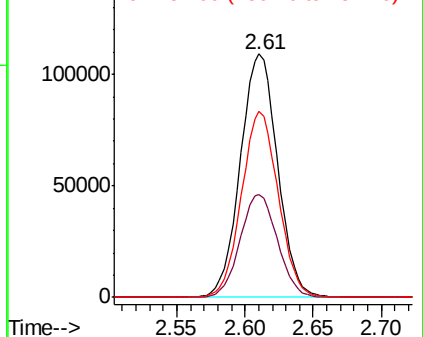
151 75.4 60.3 90.5



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: 50.000 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

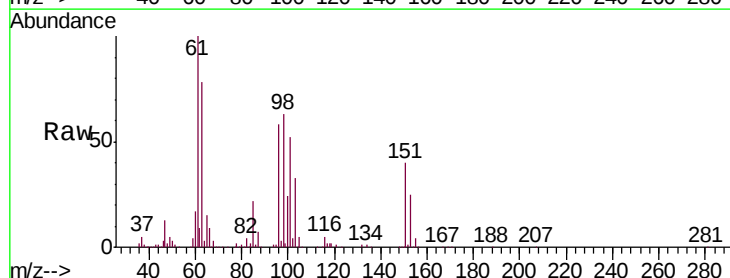
Tgt Ion: 96 Resp: 198163

Ion Ratio Lower Upper

96 100

61 173.0 121.1 224.9

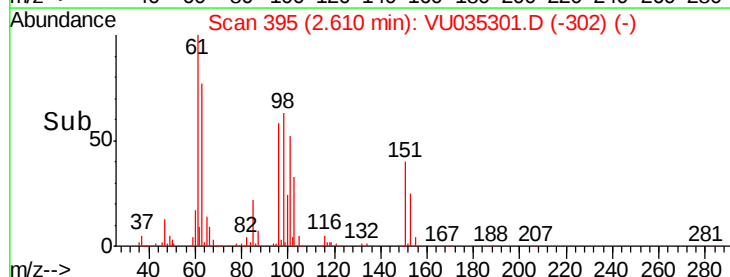
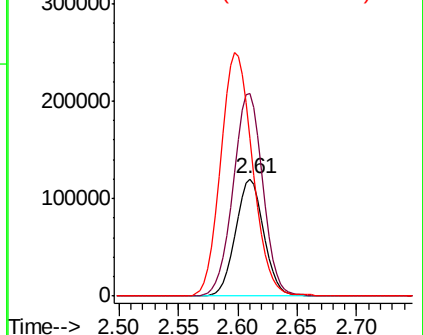
63 134.1 93.9 174.3

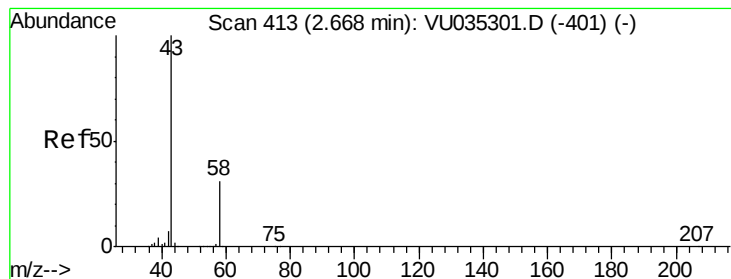


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 100.000 ug/L

RT: 2.67 min Scan# 413

Delta R.T. 0.00 min

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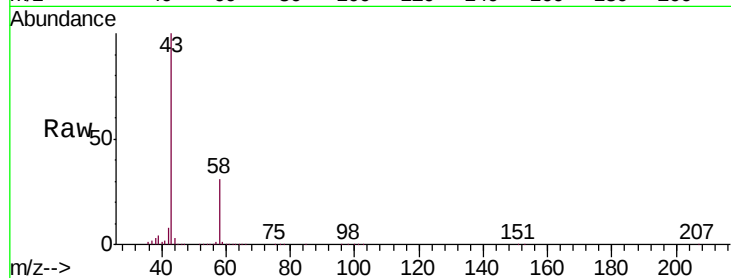
VSTD05036

Tgt Ion: 43 Resp: 336292

Ion Ratio Lower Upper

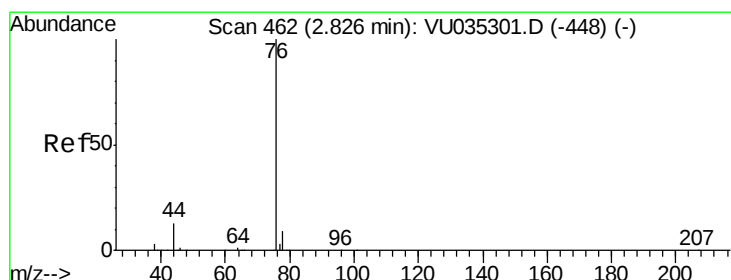
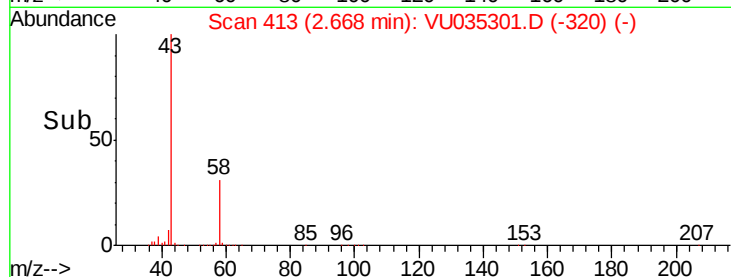
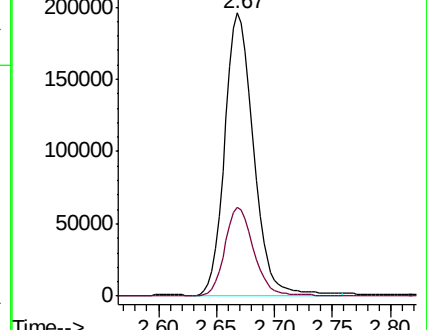
43 100

58 31.4 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU035301.D (-401) (-)

Ion 58.00 (57.70 to 58.70): VU035301.D (-401) (-)



#14

Carbon disulfide

Concen: 50.000 ug/L

RT: 2.83 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU035301.D

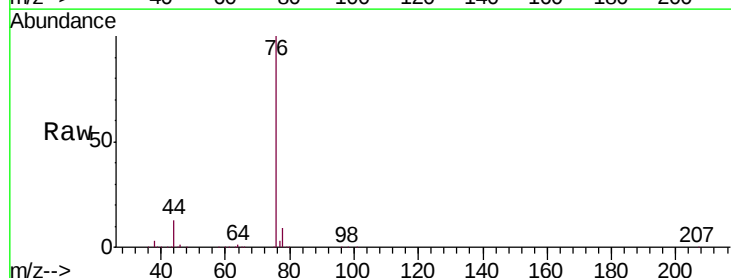
Acq: 19 Oct 2019 07:38

Tgt Ion: 76 Resp: 606526

Ion Ratio Lower Upper

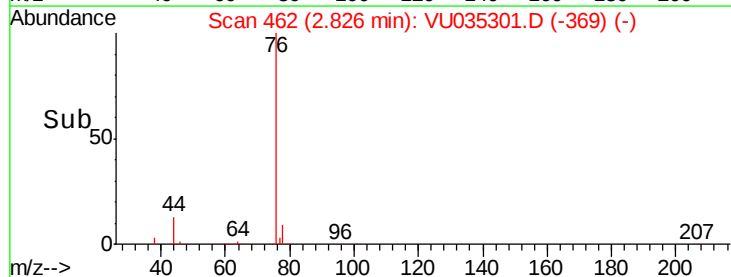
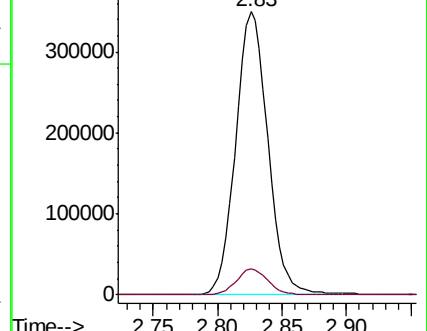
76 100

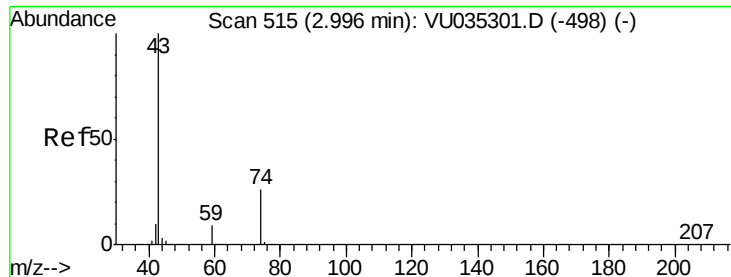
78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU035301.D (-448) (-)

Ion 78.00 (77.70 to 78.70): VU035301.D (-448) (-)

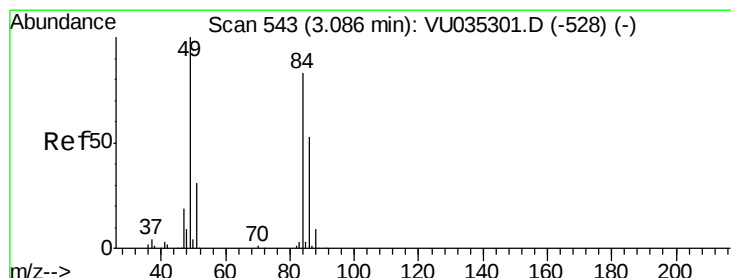
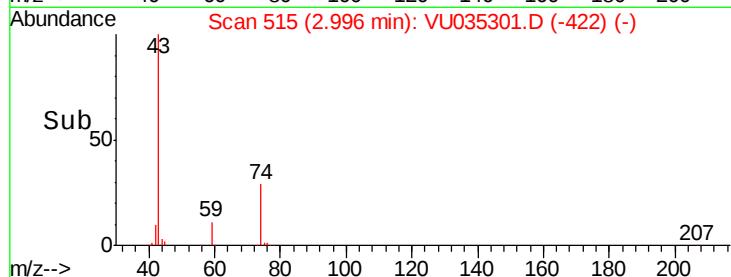
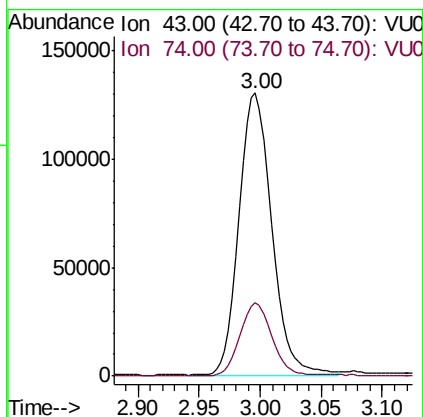
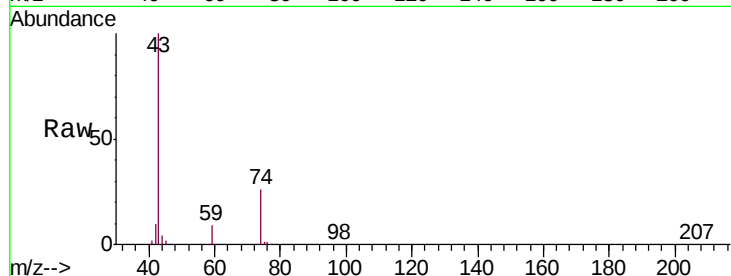




#15
Methyl Acetate
Concen: 50.000 ug/L
RT: 3.00 min Scan# 515
Delta R.T. 0.00 min
Lab File: VU035301.D
Acq: 19 Oct 2019 07:38

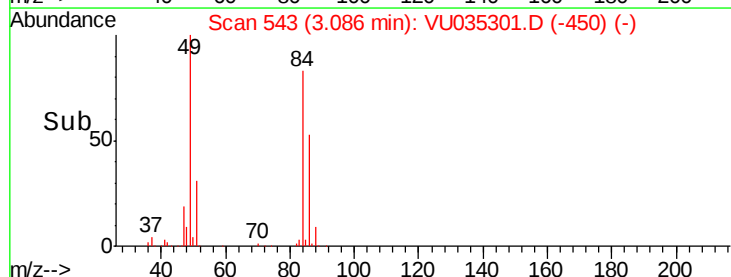
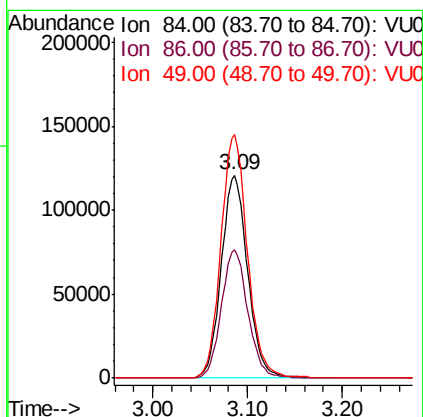
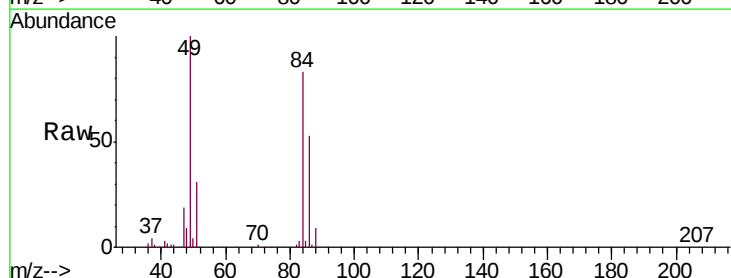
Instrument :
MSVOA_U
ClientSampled :
VSTD05036

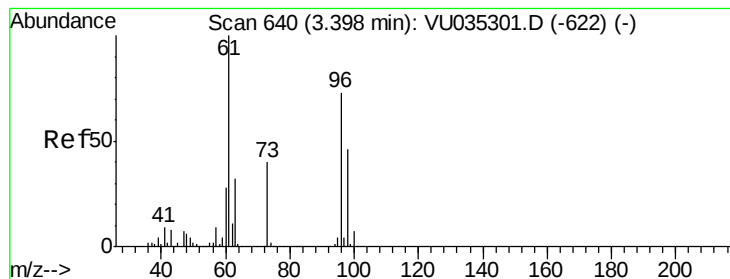
Tgt Ion: 43 Resp: 241503
Ion Ratio Lower Upper
43 100
74 25.4 20.3 30.5



#16
Methylene chloride
Concen: 50.000 ug/L
RT: 3.09 min Scan# 543
Delta R.T. 0.00 min
Lab File: VU035301.D
Acq: 19 Oct 2019 07:38

Tgt Ion: 84 Resp: 234656
Ion Ratio Lower Upper
84 100
86 63.5 44.4 82.5
49 120.0 84.0 156.0





#17

trans-1,2-Dichloroethene

Concen: 50.000 ug/L

RT: 3.40 min Scan# 640

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

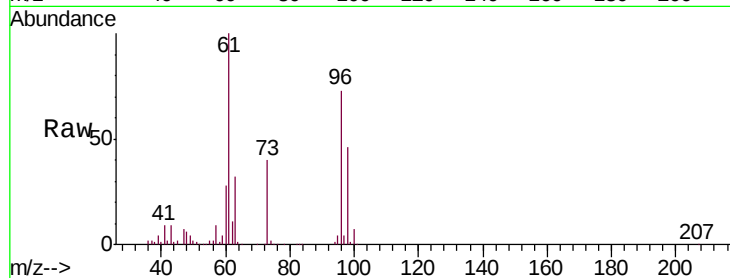
Tgt Ion: 96 Resp: 213099

Ion Ratio Lower Upper

96 100

61 136.9 95.8 178.0

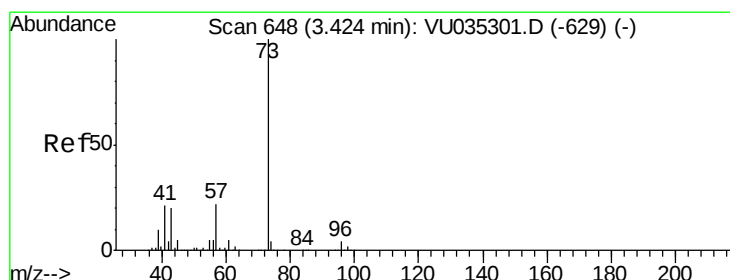
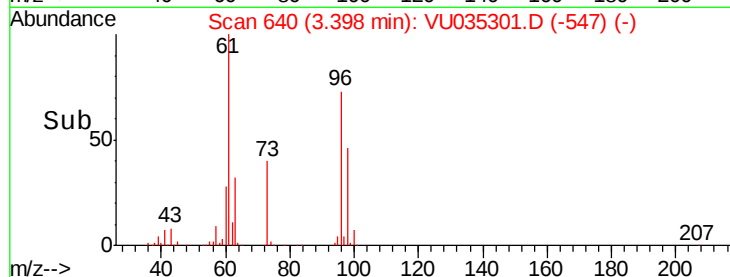
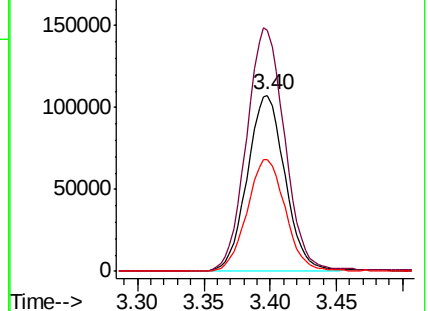
98 63.4 44.4 82.4



Abundance Ion 96.00 (95.70 to 96.70): VU035301.D (-622) (-)

Ion 61.00 (60.70 to 61.70): VU035301.D (-622) (-)

Ion 98.00 (97.70 to 98.70): VU035301.D (-622) (-)



#18

Methyl tert-butyl Ether

Concen: 50.000 ug/L

RT: 3.42 min Scan# 648

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

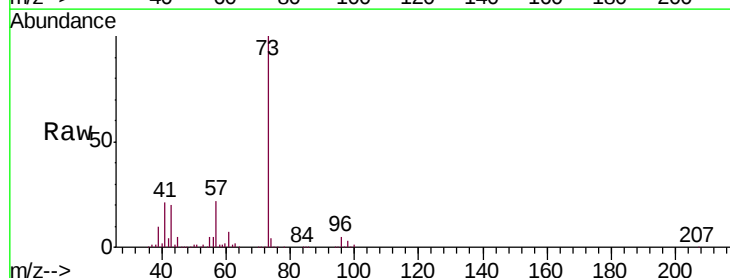
Tgt Ion: 73 Resp: 682965

Ion Ratio Lower Upper

73 100

43 20.0 16.0 24.0

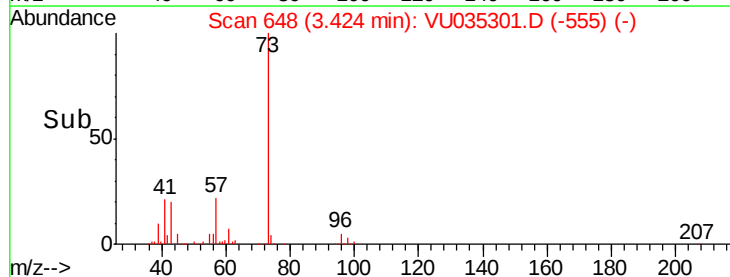
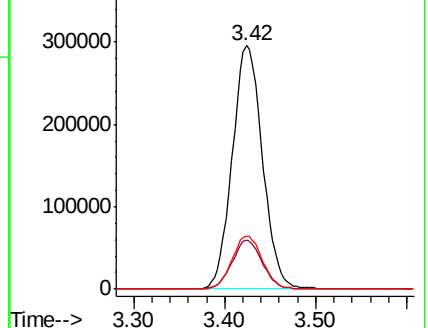
57 22.0 17.6 26.4

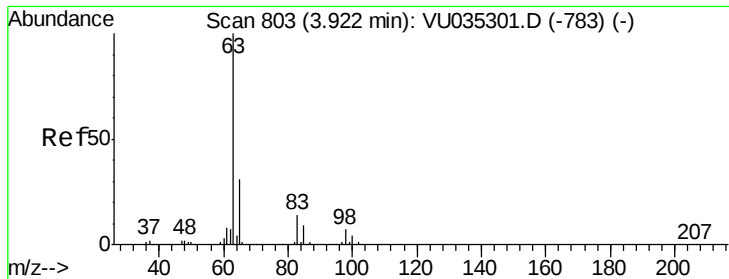


Abundance Ion 73.00 (72.70 to 73.70): VU035301.D (-629) (-)

Ion 43.00 (42.70 to 43.70): VU035301.D (-629) (-)

Ion 57.00 (56.70 to 57.70): VU035301.D (-629) (-)

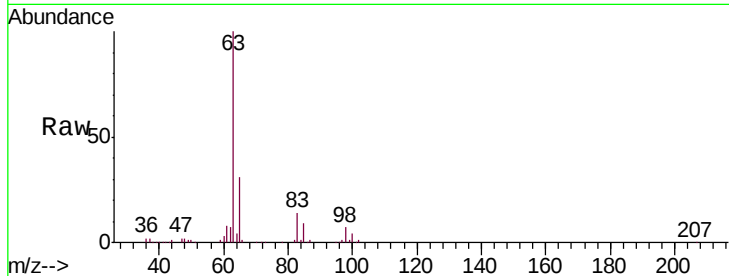




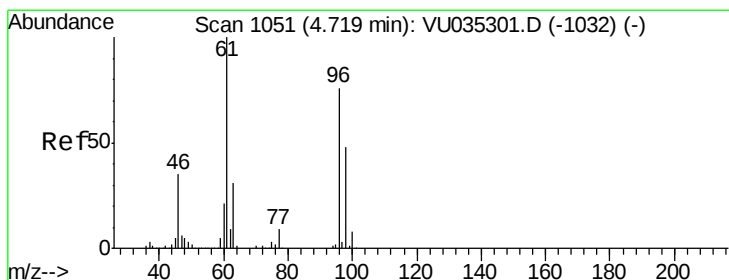
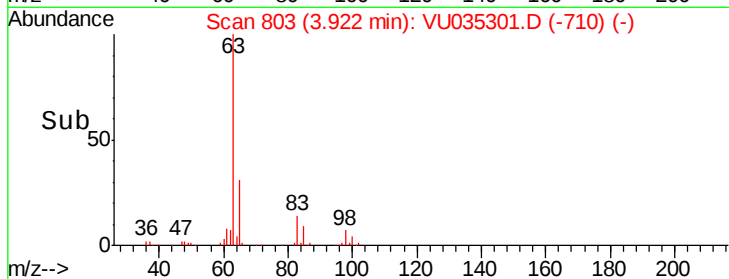
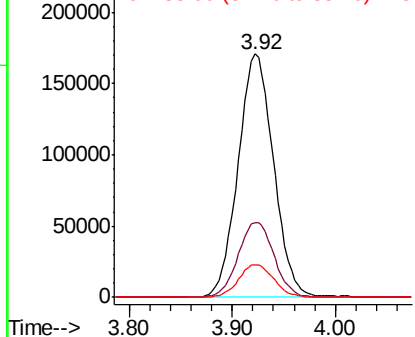
#19
 1,1-Dichloroethane
 Concen: 50.000 ug/L
 RT: 3.92 min Scan# 803
 Delta R.T. 0.00 min
 Lab File: VU035301.D
 Acq: 19 Oct 2019 07:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

Tgt Ion: 63 Resp: 409220
 Ion Ratio Lower Upper
 63 100
 65 30.8 21.6 40.0
 83 13.5 9.4 17.6

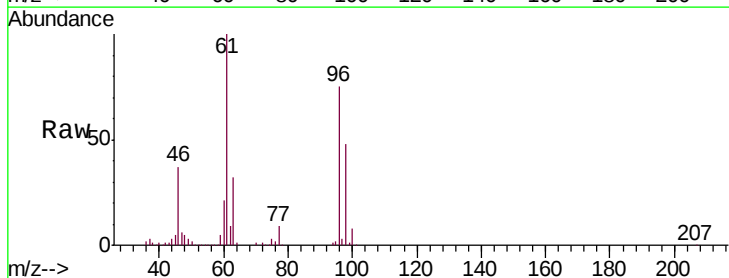


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

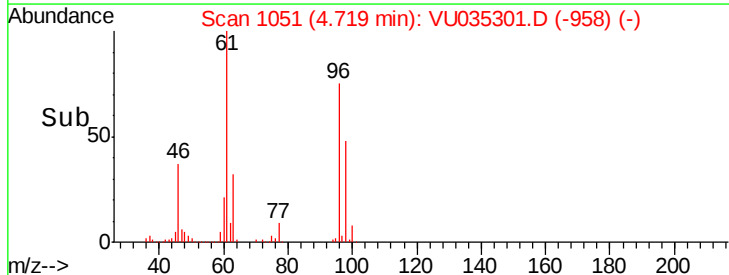
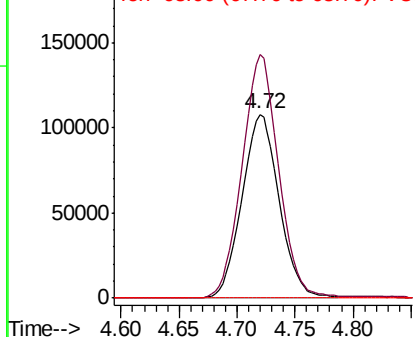


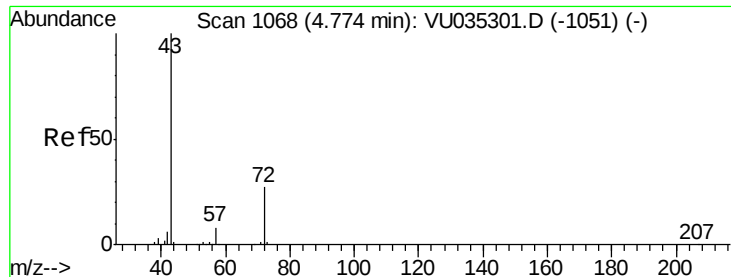
#20
 cis-1,2-Dichloroethene
 Concen: 50.000 ug/L
 RT: 4.72 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VU035301.D
 Acq: 19 Oct 2019 07:38

Tgt Ion: 96 Resp: 240907
 Ion Ratio Lower Upper
 96 100
 61 132.5 92.7 172.3
 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: 100.000 ug/L

RT: 4.77 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

Instrument :

MSVOA_U

ClientSampleId :

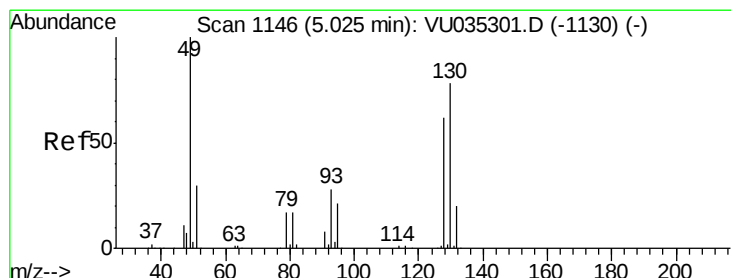
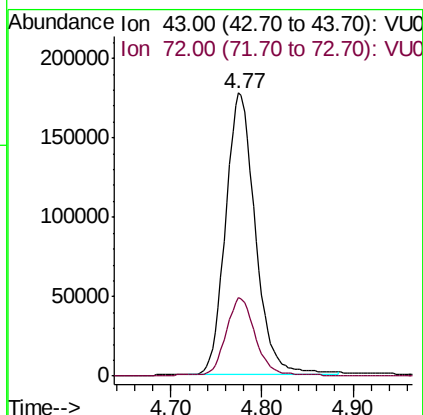
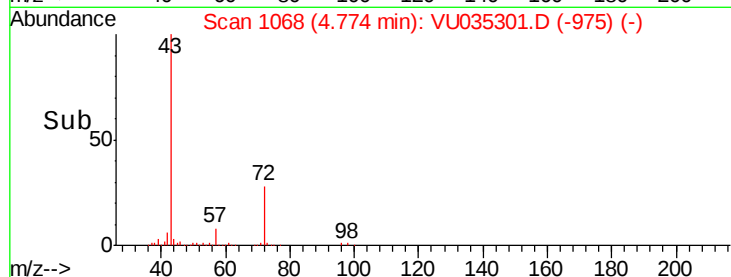
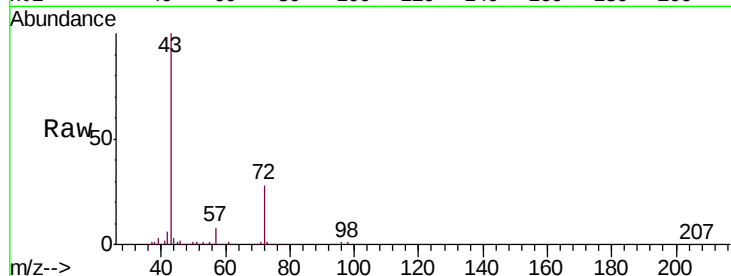
VSTD05036

Tgt Ion: 43 Resp: 404960

Ion Ratio Lower Upper

43 100

72 25.7 12.9 38.6



#23

Bromochloromethane

Concen: 50.000 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

Tgt Ion: 128 Resp: 121107

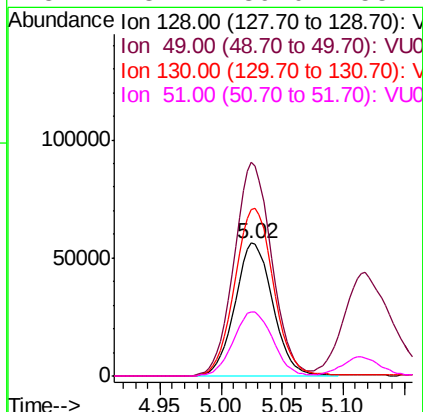
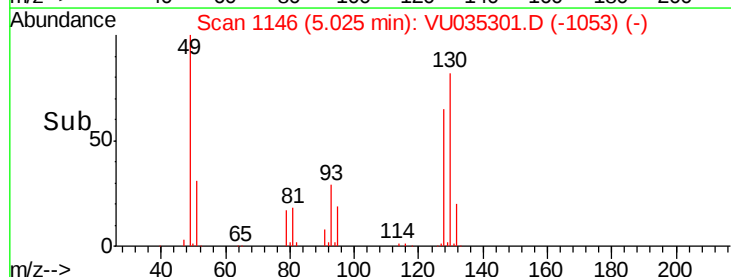
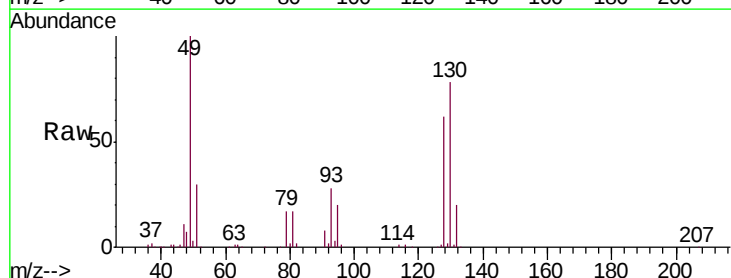
Ion Ratio Lower Upper

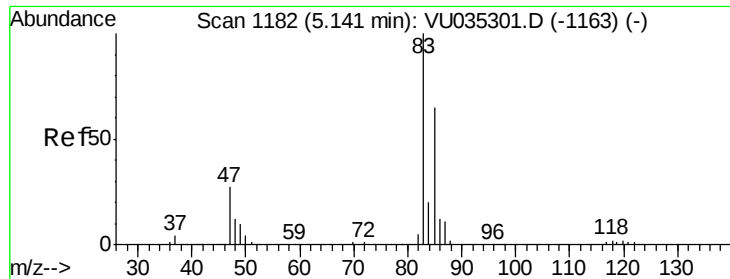
128 100

49 161.0 112.7 209.3

130 125.4 87.8 163.0

51 48.7 39.0 58.4

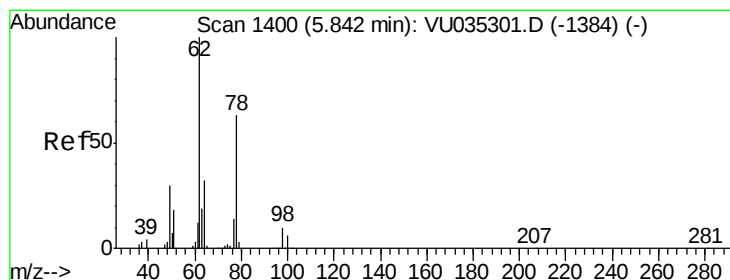
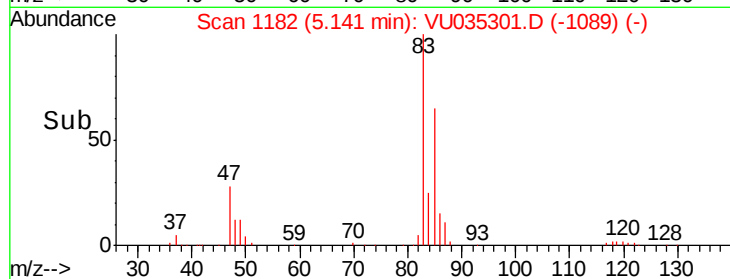
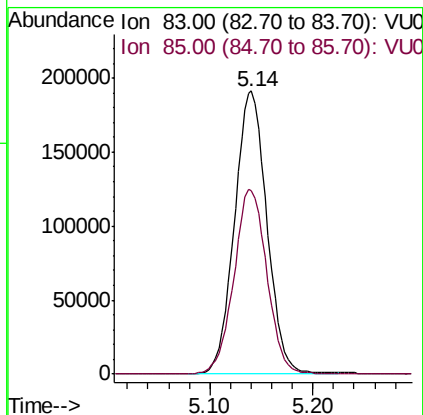
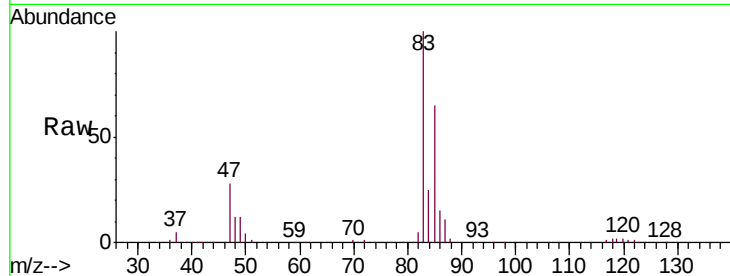




#25
Chloroform
Concen: 50.000 ug/L
RT: 5.14 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU035301.D
Acq: 19 Oct 2019 07:38

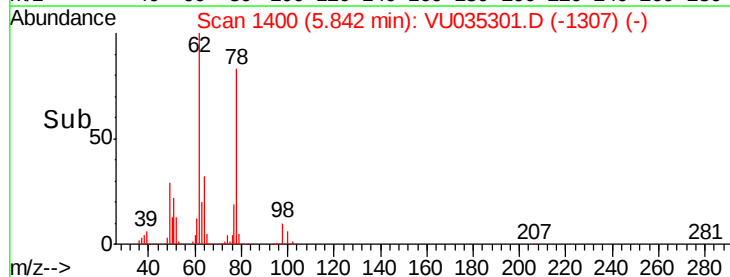
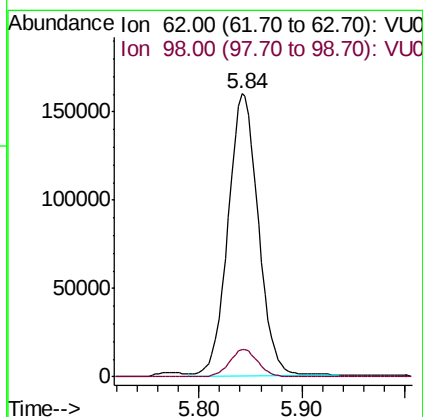
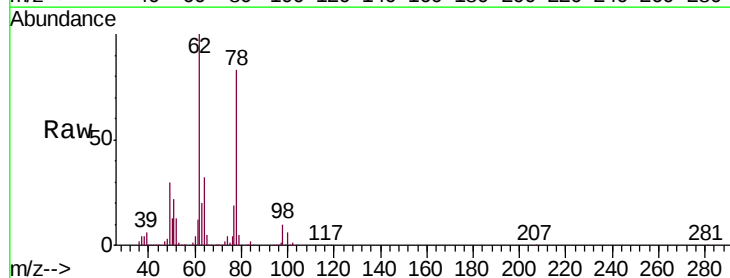
Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

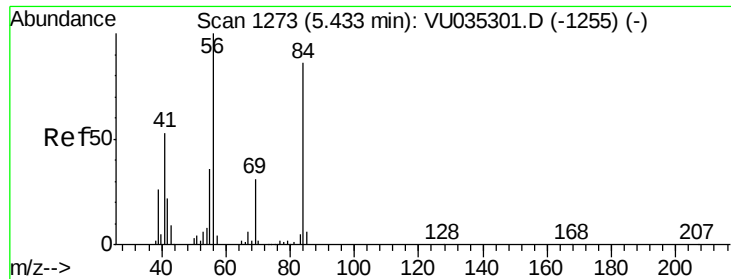
Tgt Ion: 83 Resp: 418524
Ion Ratio Lower Upper
83 100
85 65.0 45.5 84.5



#27
1,2-Dichloroethane
Concen: 50.000 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. 0.00 min
Lab File: VU035301.D
Acq: 19 Oct 2019 07:38

Tgt Ion: 62 Resp: 327740
Ion Ratio Lower Upper
62 100
98 9.7 7.8 11.6

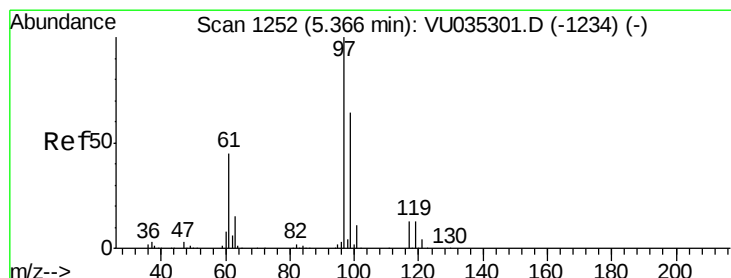
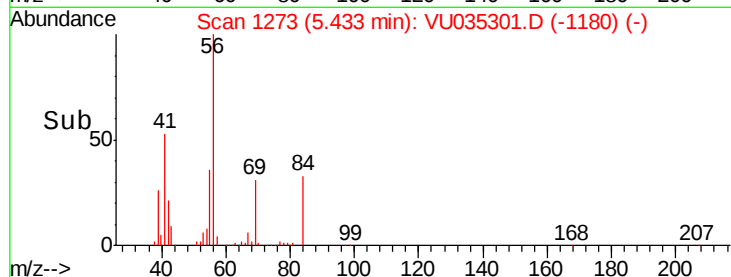
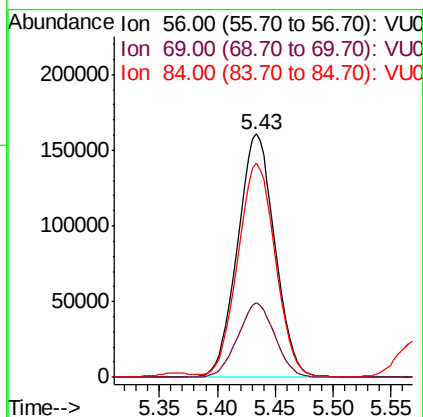
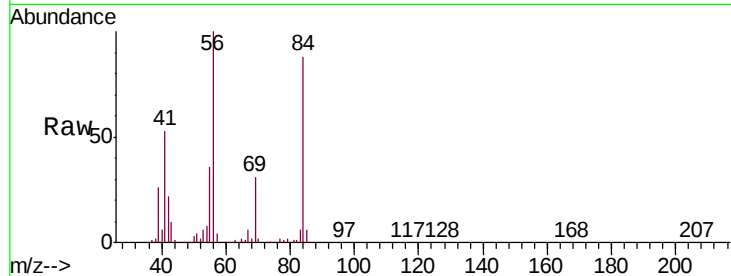




#29
Cyclohexane
Concen: 50.000 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VU035301.D
Acq: 19 Oct 2019 07:38

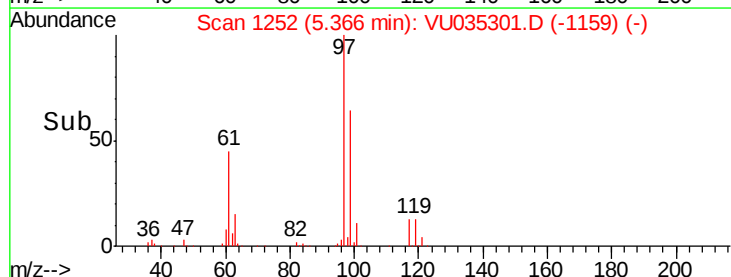
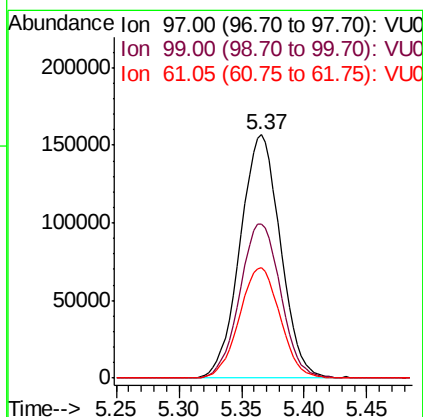
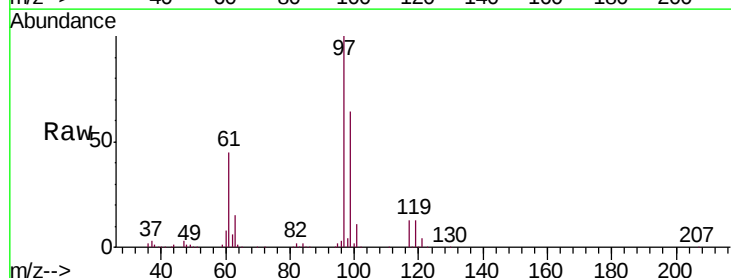
Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

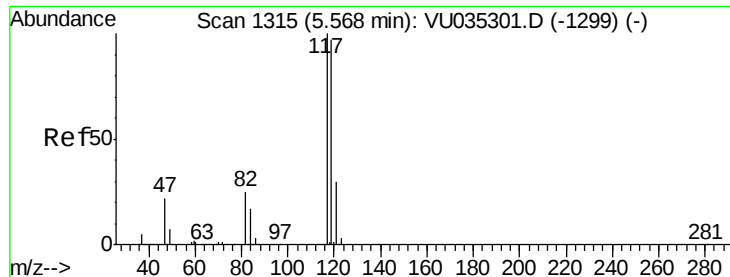
Tgt Ion: 56 Resp: 359252
Ion Ratio Lower Upper
56 100
69 30.3 24.2 36.4
84 88.9 71.1 106.7



#30
1,1,1-Trichloroethane
Concen: 50.000 ug/L
RT: 5.37 min Scan# 1252
Delta R.T. 0.00 min
Lab File: VU035301.D
Acq: 19 Oct 2019 07:38

Tgt Ion: 97 Resp: 350968
Ion Ratio Lower Upper
97 100
99 64.1 51.3 76.9
61 45.7 36.6 54.8

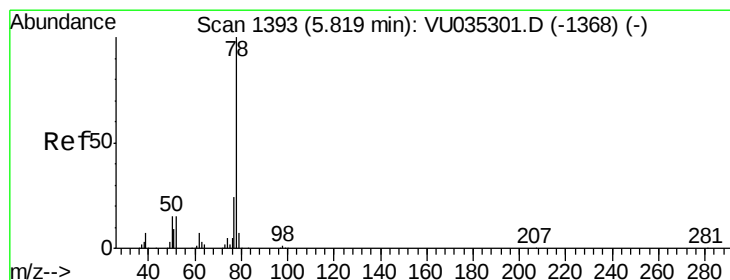
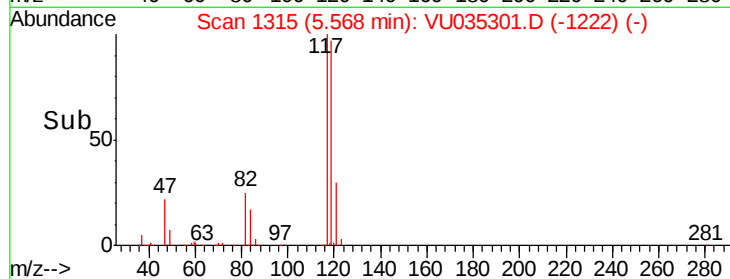
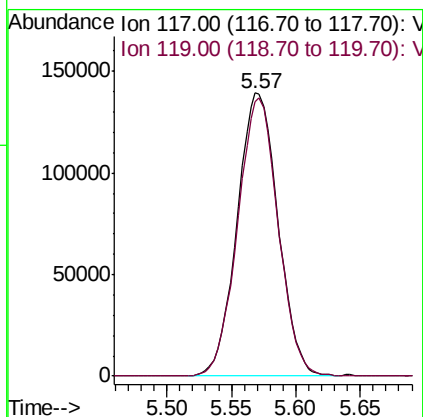
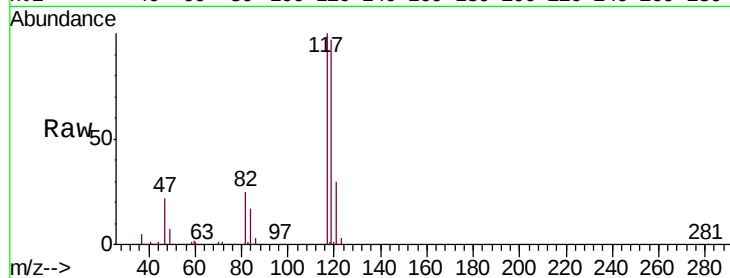




#31
Carbon tetrachloride
Concen: 50.000 ug/L
RT: 5.57 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU035301.D
Acq: 19 Oct 2019 07:38

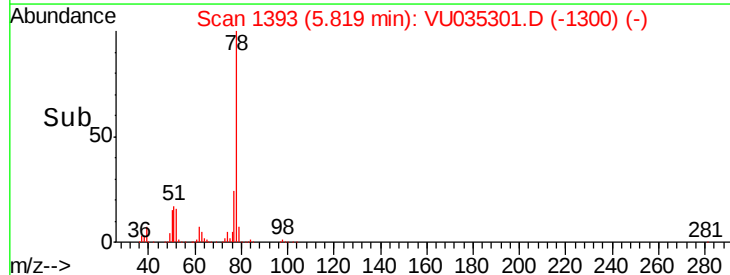
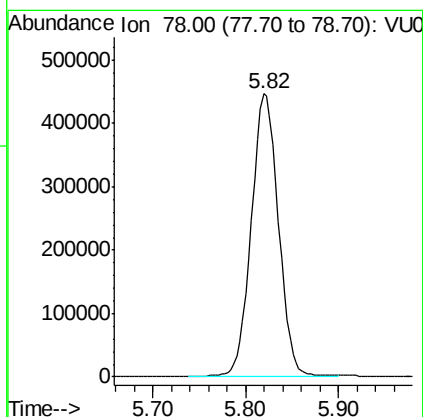
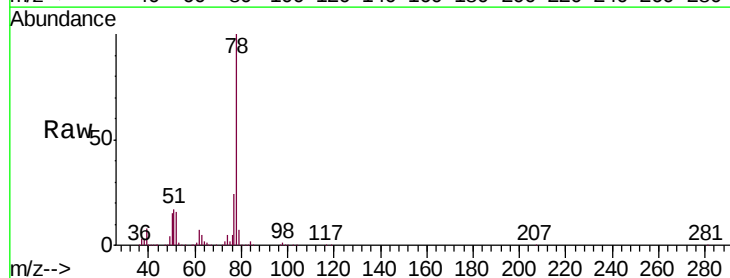
Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

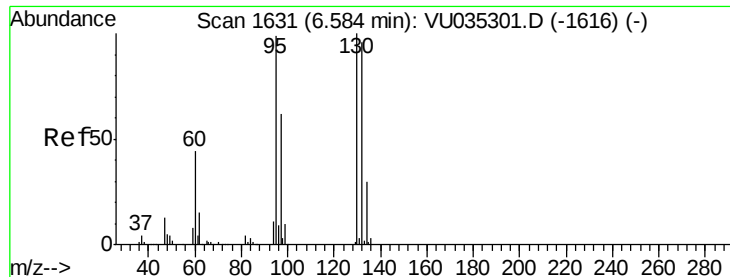
Tgt Ion:117 Resp: 307392
Ion Ratio Lower Upper
117 100
119 97.1 77.7 116.5



#33
Benzene
Concen: 50.000 ug/L
RT: 5.82 min Scan# 1393
Delta R.T. 0.00 min
Lab File: VU035301.D
Acq: 19 Oct 2019 07:38

Tgt Ion: 78 Resp: 913112





#34

Trichloroethene

Concen: 50.000 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

Tgt Ion: 95 Resp: 233855

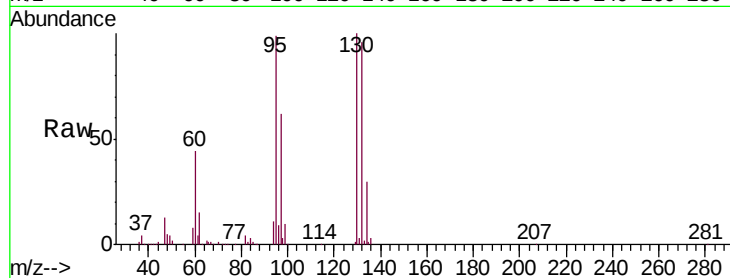
Ion Ratio Lower Upper

95 100

97 63.2 44.2 82.2

132 96.8 67.8 125.8

130 101.3 70.9 131.7



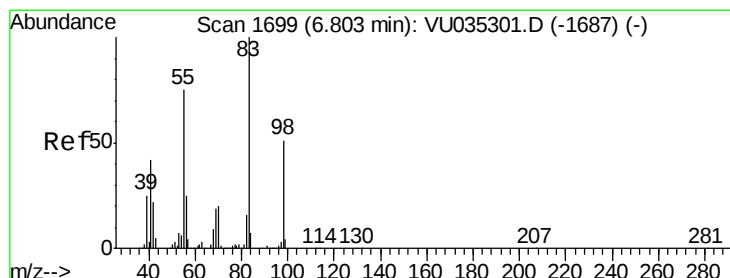
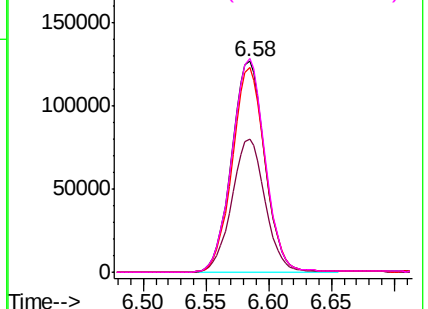
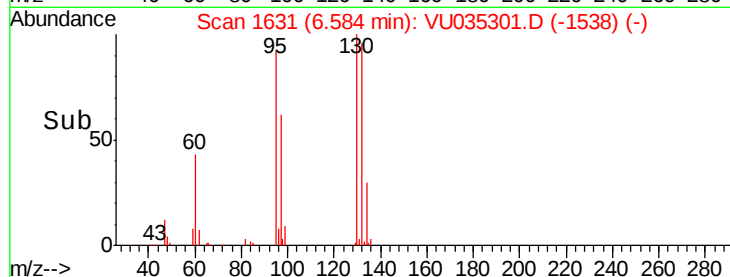
Abundance Ion 95.00 (94.70 to 95.70): VU035301.D (-1616) (-)

200000

Ion 97.00 (96.70 to 97.70): VU035301.D (-1616) (-)

Ion 132.00 (131.70 to 132.70): VU035301.D (-1616) (-)

Ion 130.00 (129.70 to 130.70): VU035301.D (-1616) (-)



#35

Methylcyclohexane

Concen: 50.000 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

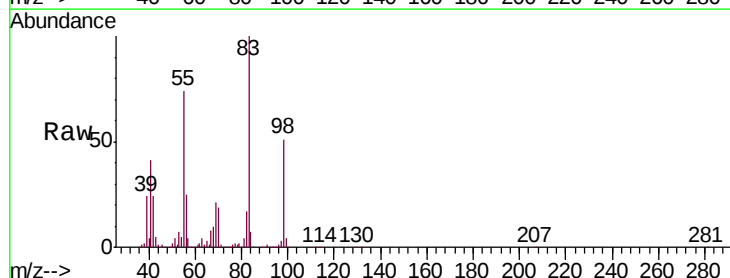
Tgt Ion: 83 Resp: 359626

Ion Ratio Lower Upper

83 100

55 74.4 59.5 89.3

98 49.9 39.9 59.9

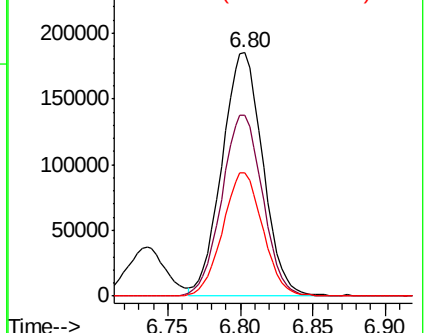
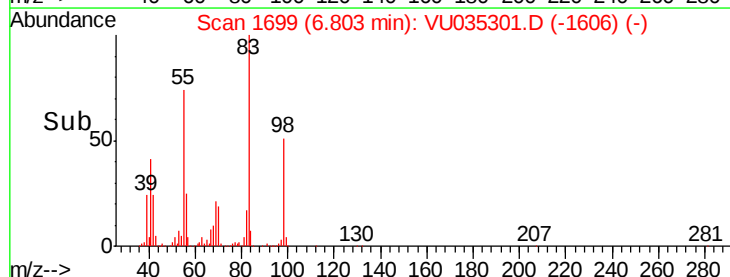


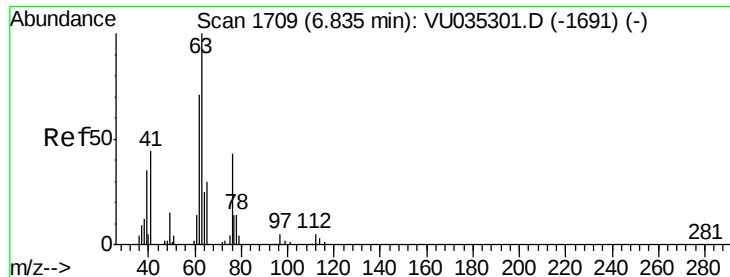
Abundance Ion 83.00 (82.70 to 83.70): VU035301.D (-1687) (-)

250000

Ion 55.00 (54.70 to 55.70): VU035301.D (-1687) (-)

Ion 98.00 (97.70 to 98.70): VU035301.D (-1687) (-)





#37

1,2-Dichloropropane

Concen: 50.000 ug/L

RT: 6.84 min Scan# 1709

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

Instrument :

MSVOA_U

ClientSampleId :

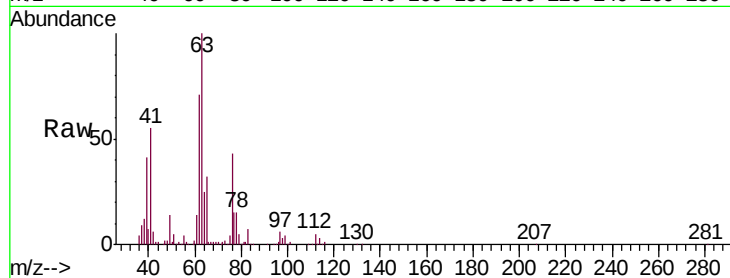
VSTD05036

Tgt Ion: 63 Resp: 236569

Ion Ratio Lower Upper

63 100

112 4.5 3.6 5.4



Abundance Ion 63.00 (62.70 to 63.70): VU035301.D (-1691) (-)

Ion 112.00 (111.70 to 112.70): VU035301.D (-1691) (-)

6.84

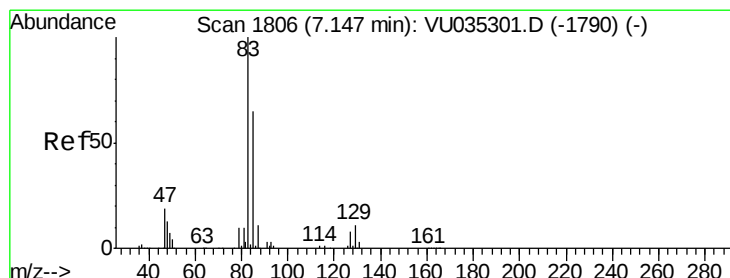
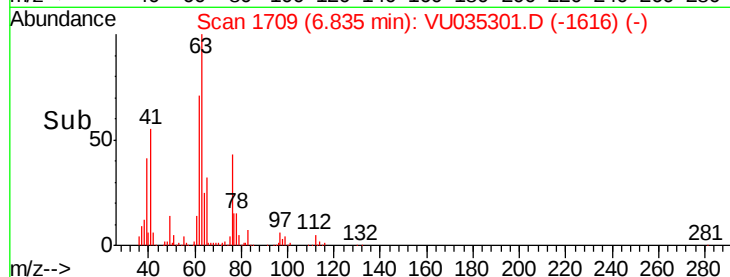
100000

50000

0

6.75 6.80 6.85 6.90

Time-->



#38

Bromodichloromethane

Concen: 50.000 ug/L

RT: 7.15 min Scan# 1806

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

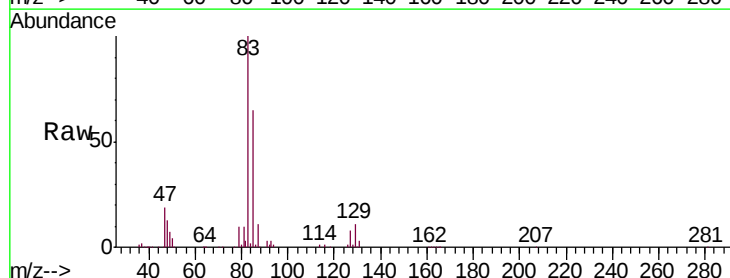
Tgt Ion: 83 Resp: 313742

Ion Ratio Lower Upper

83 100

85 64.7 45.3 84.1

127 8.3 6.6 10.0



Abundance Ion 83.00 (82.70 to 83.70): VU035301.D (-1790) (-)

Ion 85.00 (84.70 to 85.70): VU035301.D (-1790) (-)

Ion 127.00 (126.70 to 127.70): VU035301.D (-1790) (-)

7.15

200000

150000

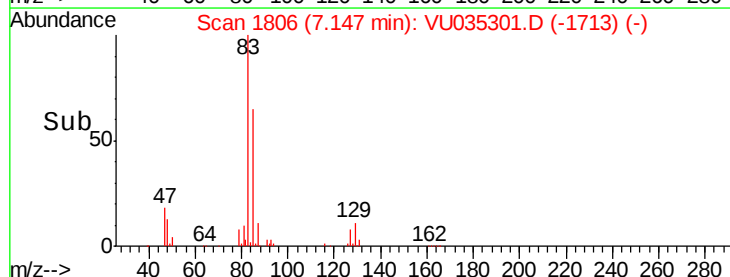
100000

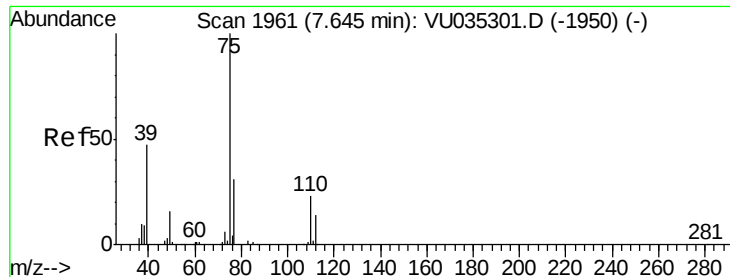
50000

0

7.05 7.10 7.15 7.20

Time-->

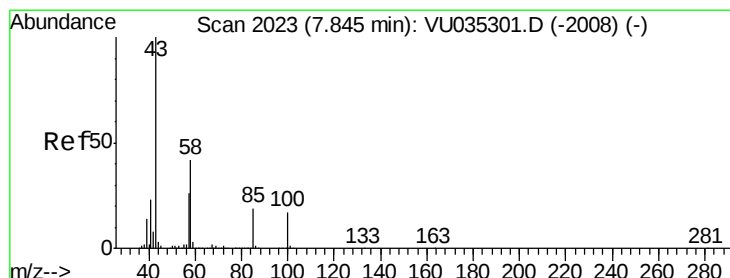
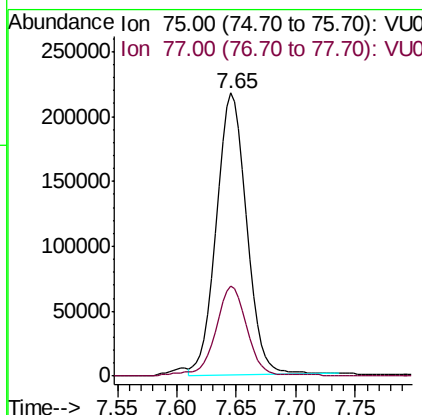
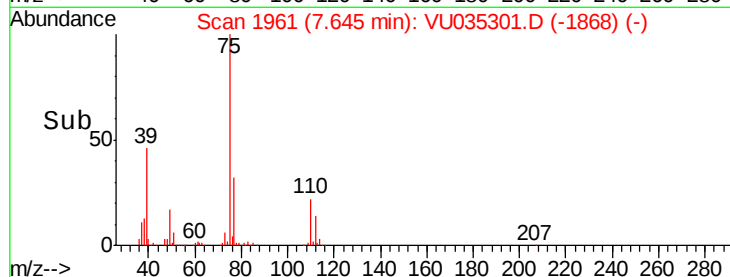
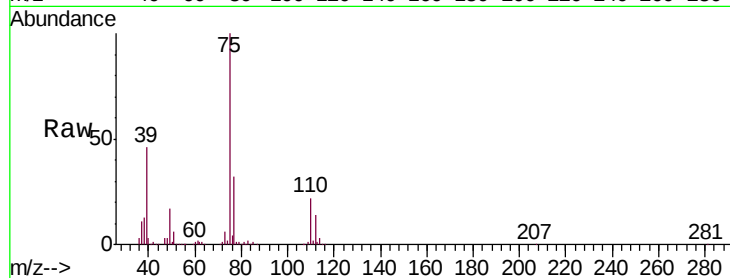




#39
 cis-1,3-Dichloropropene
 Concen: 50.000 ug/L
 RT: 7.65 min Scan# 1961
 Delta R.T. 0.00 min
 Lab File: VU035301.D
 Acq: 19 Oct 2019 07:38

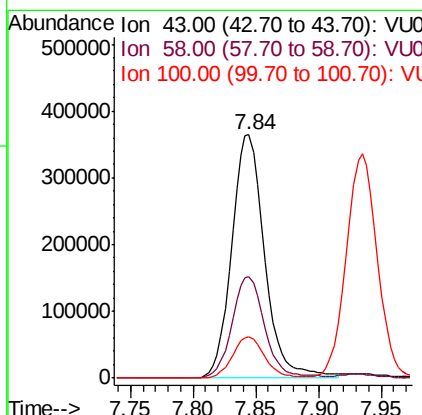
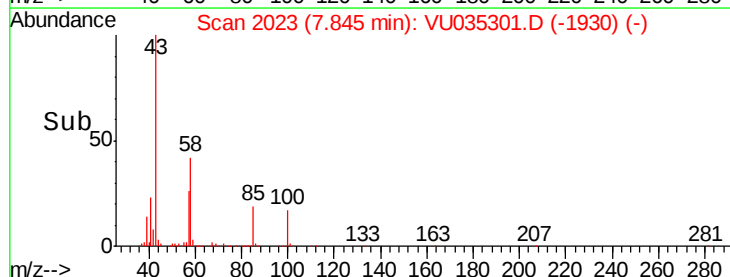
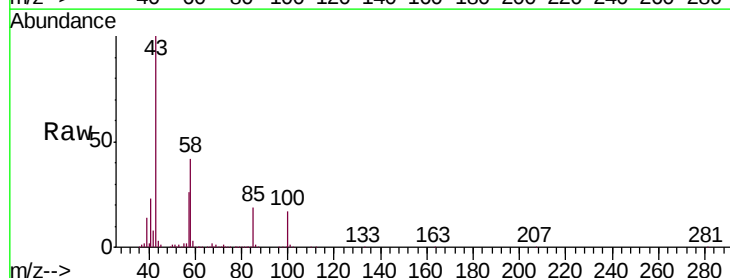
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

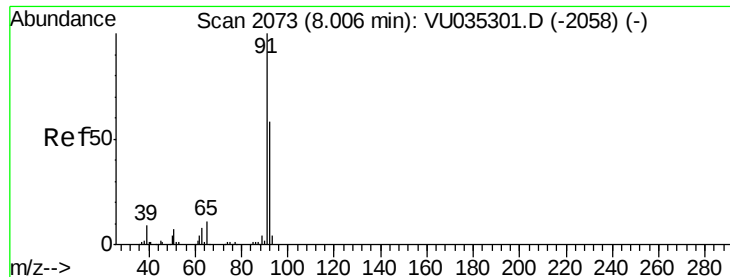
Tgt Ion: 75 Resp: 382634
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 100.000 ug/L
 RT: 7.84 min Scan# 2023
 Delta R.T. 0.00 min
 Lab File: VU035301.D
 Acq: 19 Oct 2019 07:38

Tgt Ion: 43 Resp: 667230
 Ion Ratio Lower Upper
 43 100
 58 41.4 33.1 49.7
 100 16.5 13.2 19.8





#42

Toluene

Concen: 50.000 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

Instrument :

MSVOA_U

ClientSampleId :

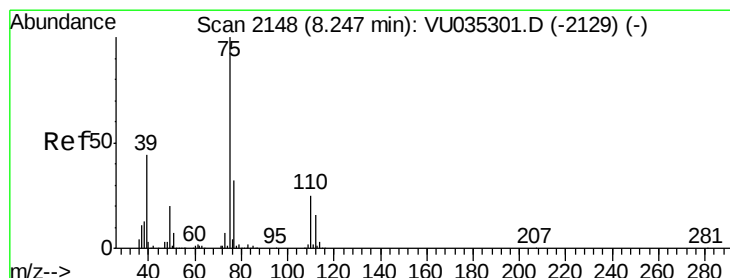
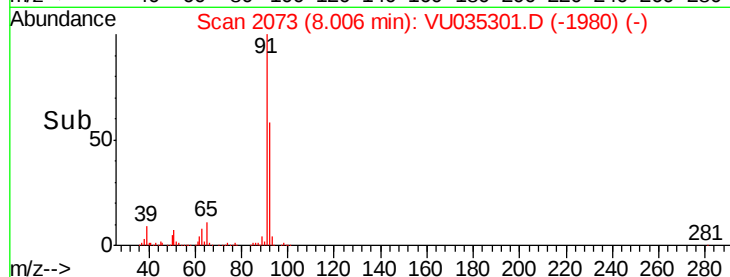
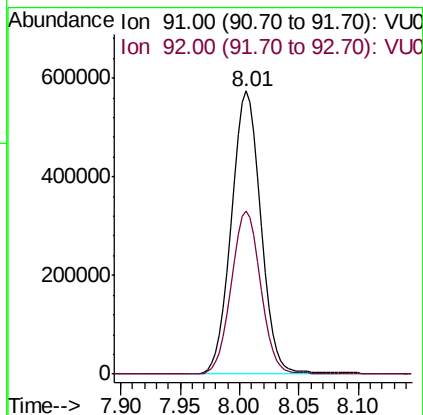
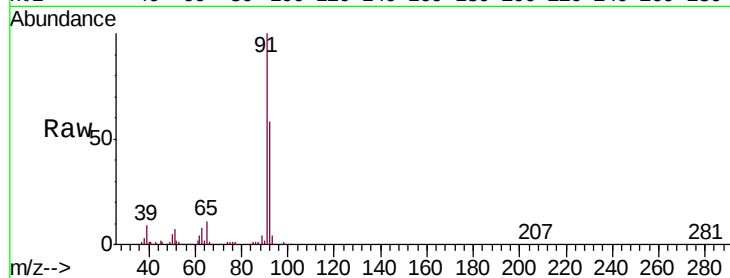
VSTD05036

Tgt Ion: 91 Resp: 987870

Ion Ratio Lower Upper

91 100

92 57.6 40.3 74.9



#44

trans-1,3-Dichloropropene

Concen: 50.000 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VU035301.D

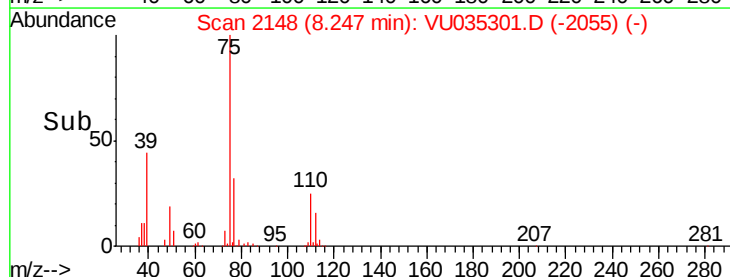
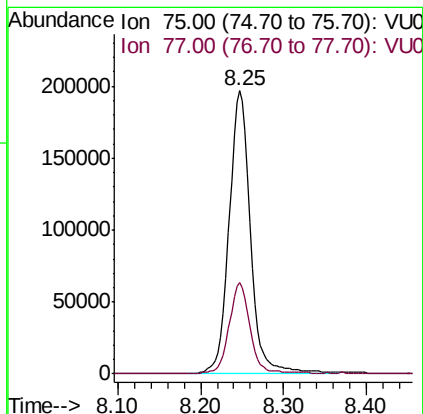
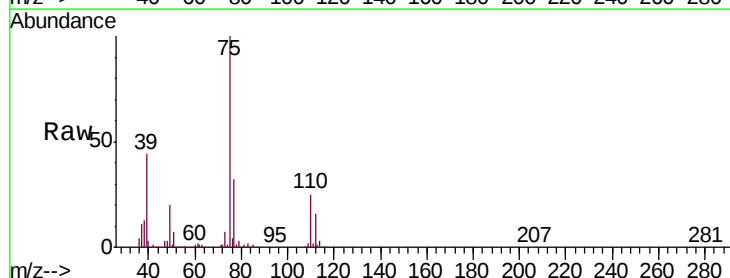
Acq: 19 Oct 2019 07:38

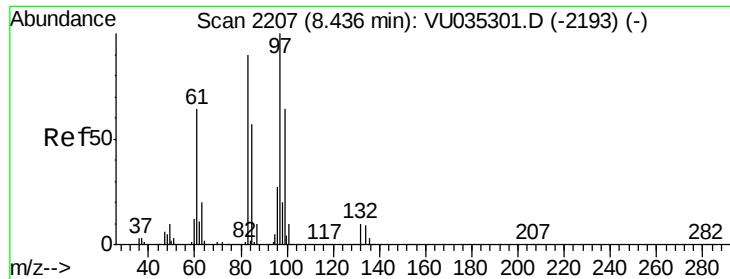
Tgt Ion: 75 Resp: 356689

Ion Ratio Lower Upper

75 100

77 32.2 22.5 41.9

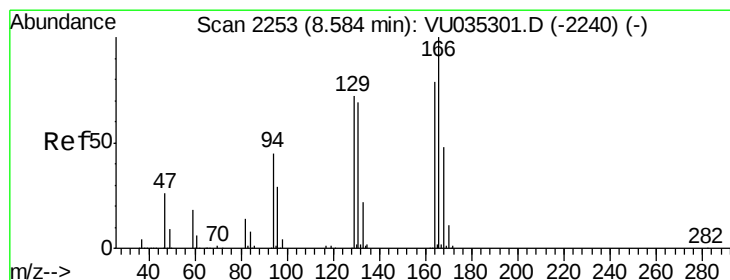
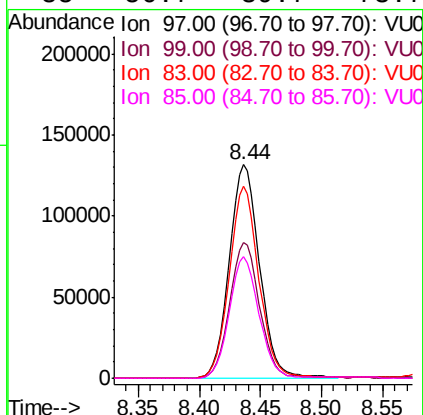
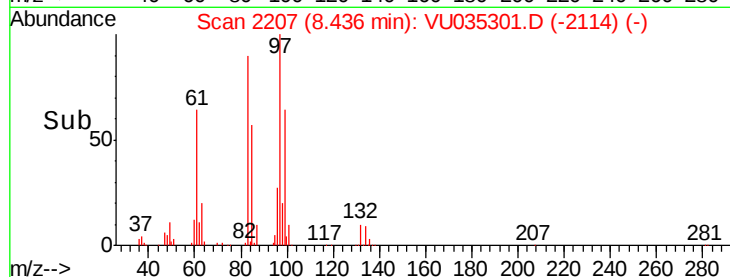
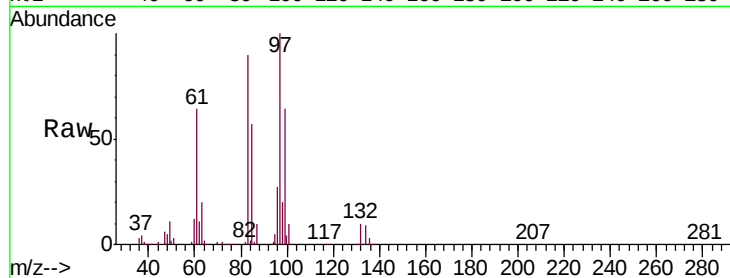




#45
 1,1,2-Trichloroethane
 Concen: 50.000 ug/L
 RT: 8.44 min Scan# 2207
 Delta R.T. 0.00 min
 Lab File: VU035301.D
 Acq: 19 Oct 2019 07:38

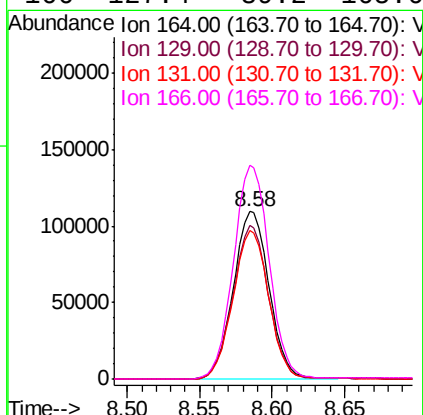
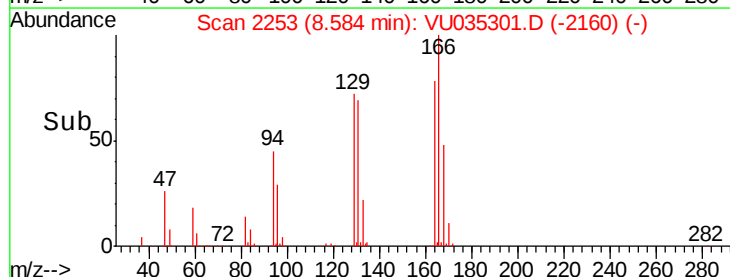
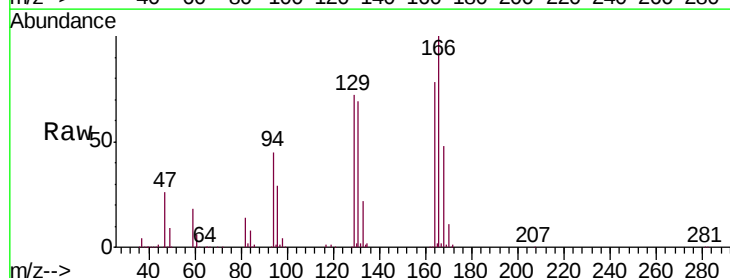
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

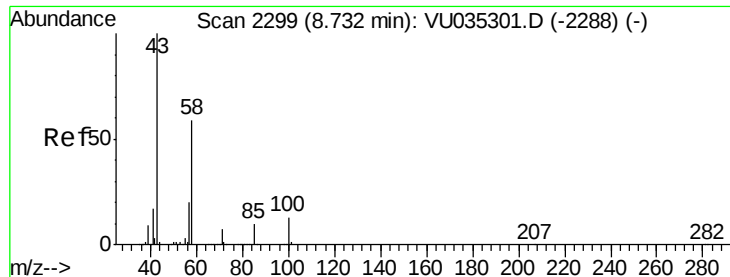
Tgt Ion:	97	Resp:	229119
Ion	Ratio	Lower	Upper
97	100		
99	63.6	44.5	82.7
83	90.0	63.0	117.0
85	56.7	39.7	73.7



#46
 Tetrachloroethene
 Concen: 50.000 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU035301.D
 Acq: 19 Oct 2019 07:38

Tgt Ion:	164	Resp:	187967
Ion	Ratio	Lower	Upper
164	100		
129	91.5	64.0	119.0
131	88.3	61.8	114.8
166	127.4	89.2	165.6

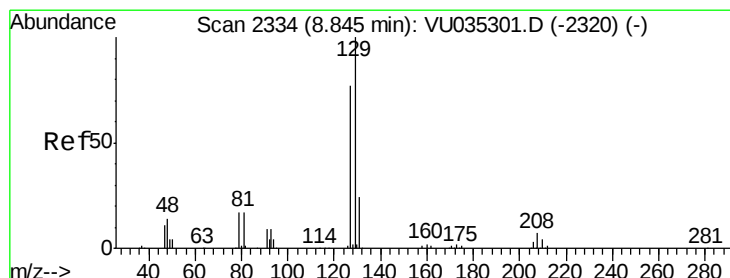
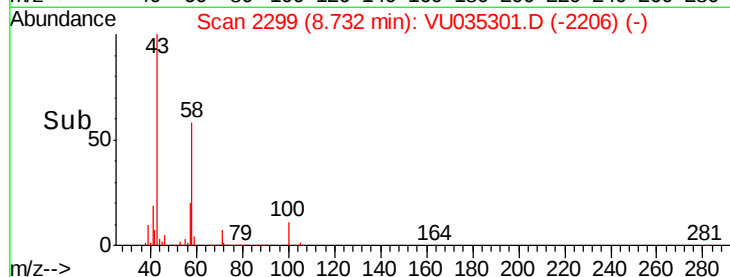
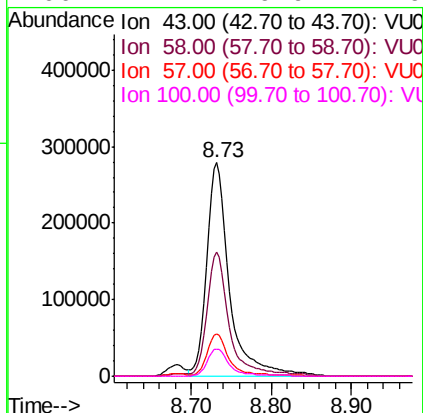
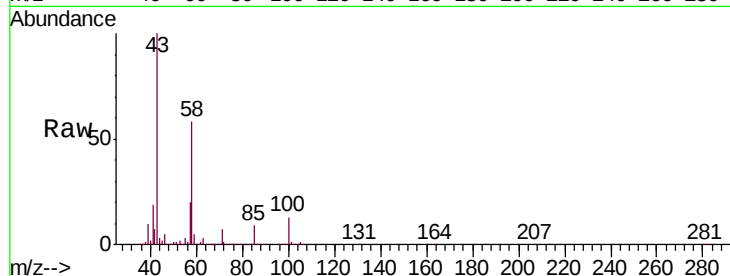




#48
2-Hexanone
Concen: 100.000 ug/L
RT: 8.73 min Scan# 2299
Delta R.T. 0.00 min
Lab File: VU035301.D
Acq: 19 Oct 2019 07:38

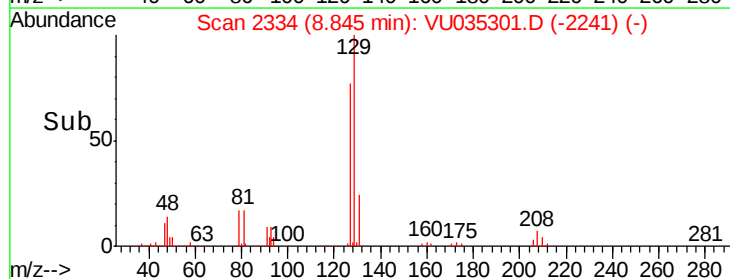
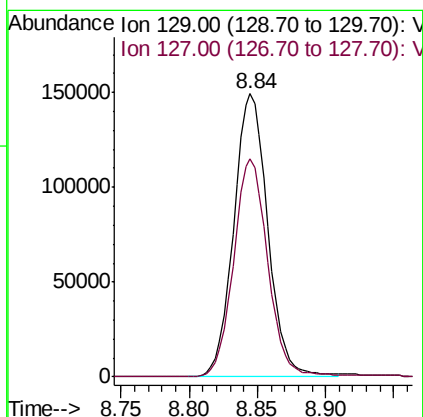
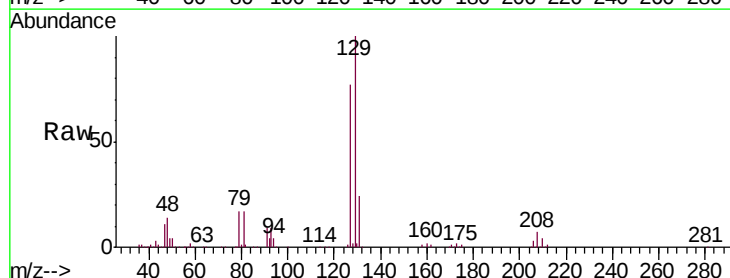
Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

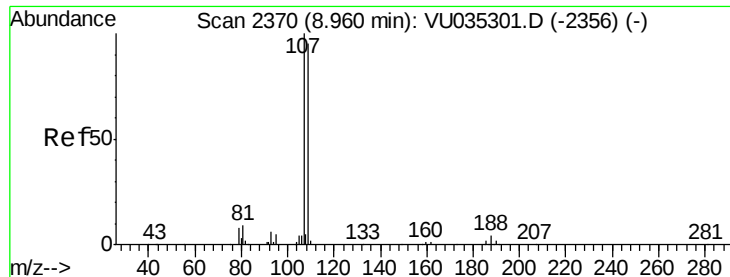
Tgt Ion:	43	Resp:	552927
Ion	Ratio	Lower	Upper
43	100		
58	53.4	42.7	64.1
57	18.5	14.8	22.2
100	12.4	9.9	14.9



#49
Dibromochloromethane
Concen: 50.000 ug/L
RT: 8.84 min Scan# 2334
Delta R.T. 0.00 min
Lab File: VU035301.D
Acq: 19 Oct 2019 07:38

Tgt Ion:	129	Resp:	258738
Ion	Ratio	Lower	Upper
129	100		
127	77.2	54.0	100.4

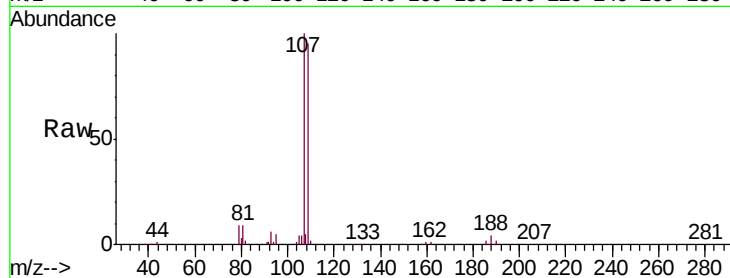




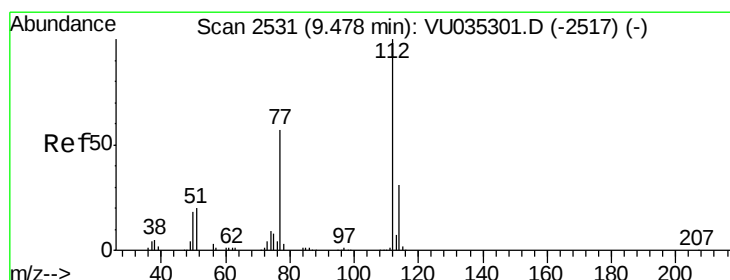
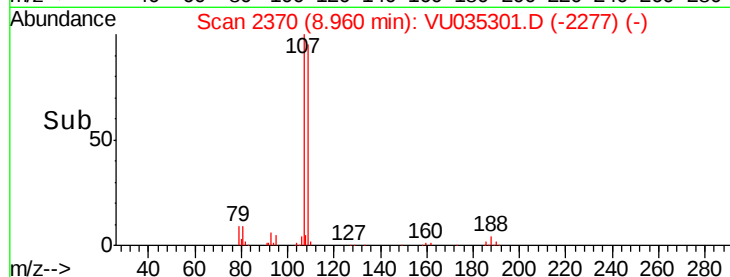
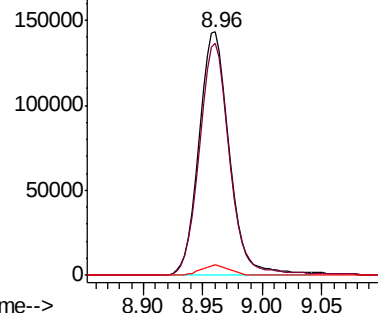
#50
 1,2-Dibromoethane
 Concen: 50.000 ug/L
 RT: 8.96 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VU035301.D
 Acq: 19 Oct 2019 07:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.5	66.8	124.2
188	4.3	3.4	5.2

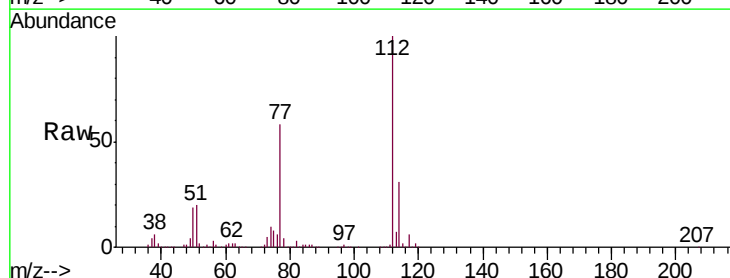


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

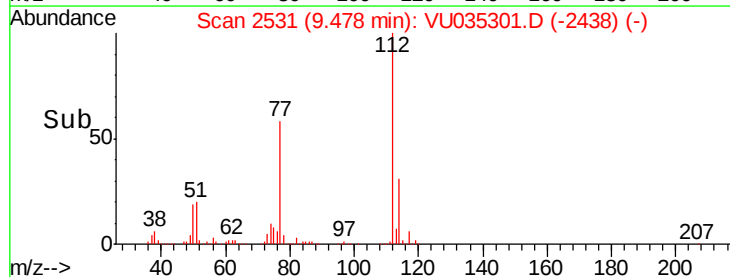
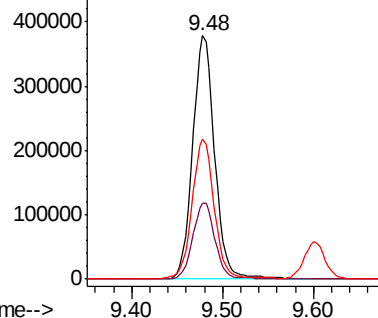


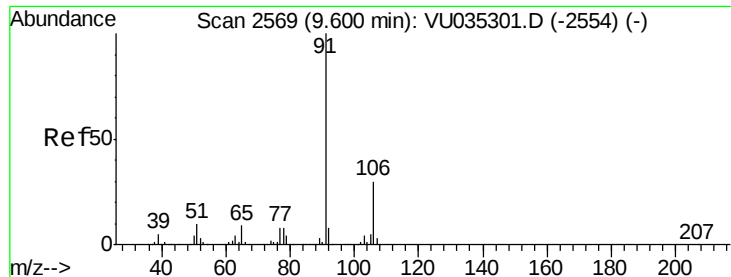
#51
 Chlorobenzene
 Concen: 50.000 ug/L
 RT: 9.48 min Scan# 2531
 Delta R.T. 0.00 min
 Lab File: VU035301.D
 Acq: 19 Oct 2019 07:38

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.3	21.9	40.7
77	57.7	46.2	69.2



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: 50.000 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

Instrument :

MSVOA_U

ClientSampleId :

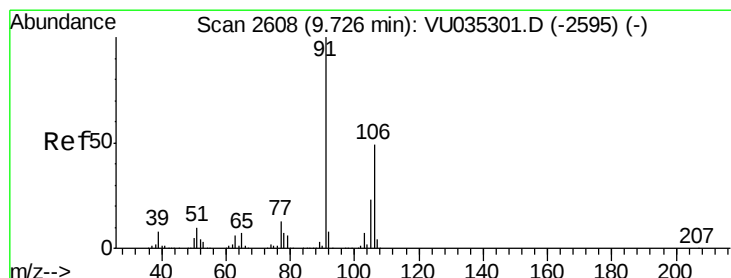
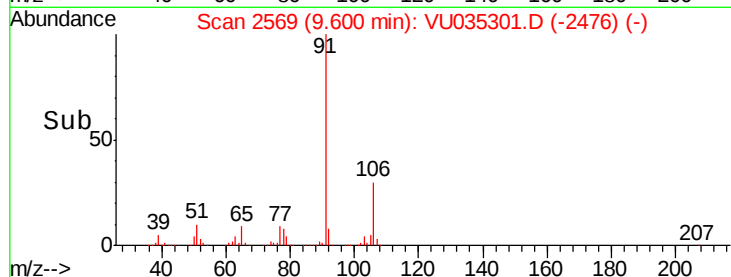
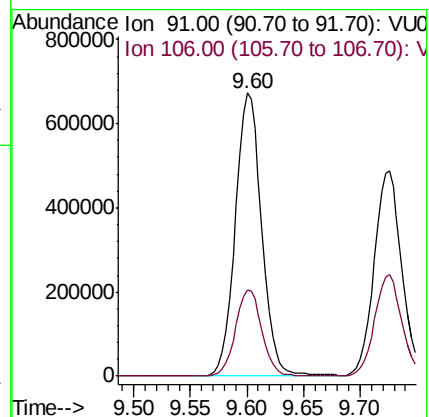
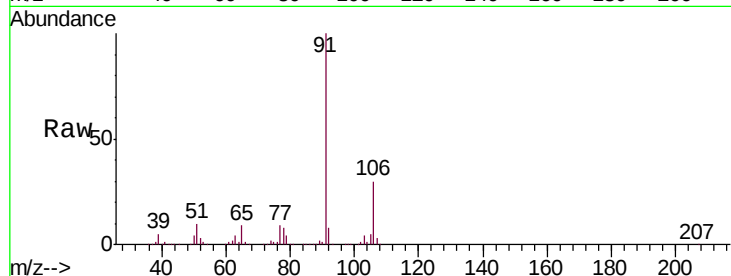
VSTD05036

Tgt Ion: 91 Resp: 1091689

Ion Ratio Lower Upper

91 100

106 30.5 21.3 39.6



#53

m,p-Xylene

Concen: 50.000 ug/L

RT: 9.73 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VU035301.D

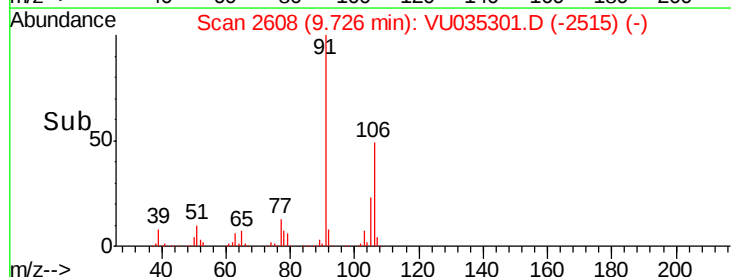
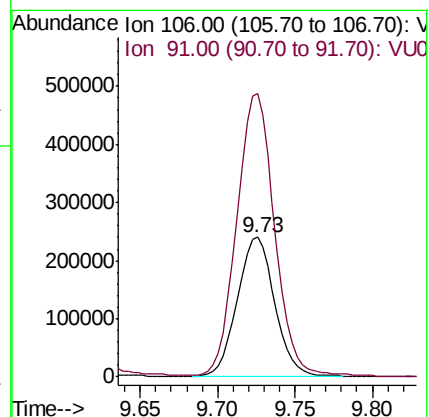
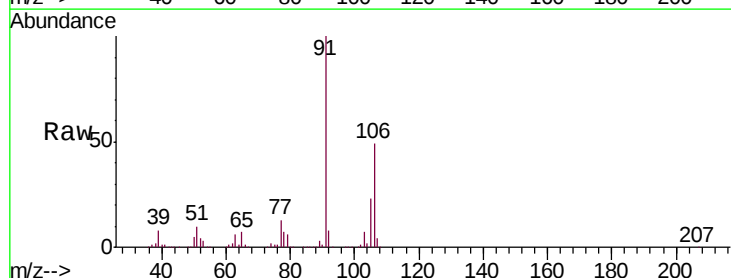
Acq: 19 Oct 2019 07:38

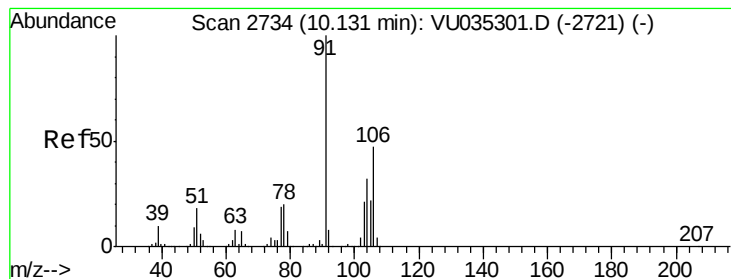
Tgt Ion: 106 Resp: 400745

Ion Ratio Lower Upper

106 100

91 202.2 141.5 262.9





#54

o-xylene

Concen: 50.000 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

Instrument :

MSVOA_U

ClientSampleId :

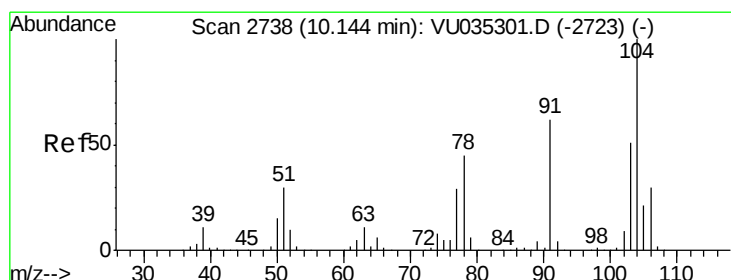
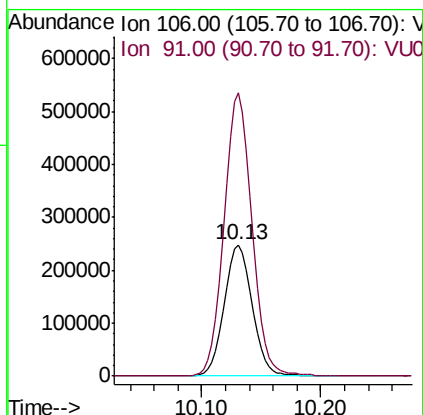
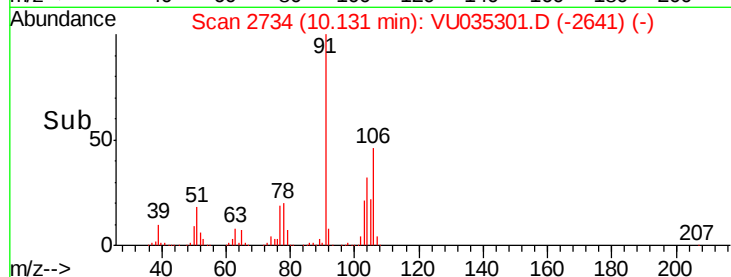
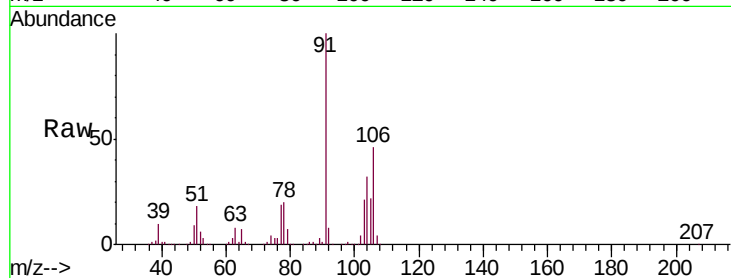
VSTD05036

Tgt Ion:106 Resp: 406223

Ion Ratio Lower Upper

106 100

91 215.2 150.6 279.8



#55

Styrene

Concen: 50.000 ug/L

RT: 10.14 min Scan# 2738

Delta R.T. 0.00 min

Lab File: VU035301.D

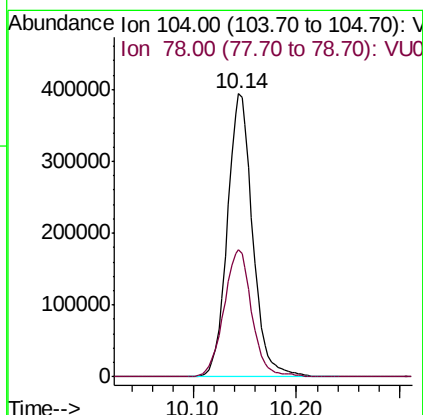
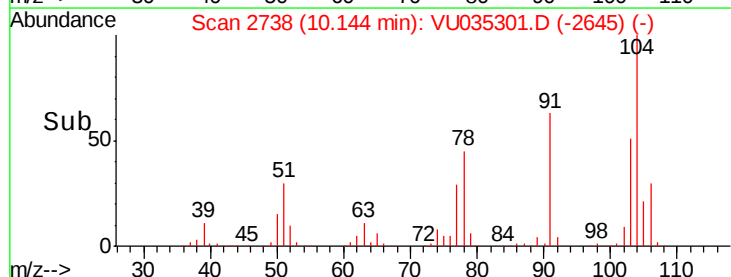
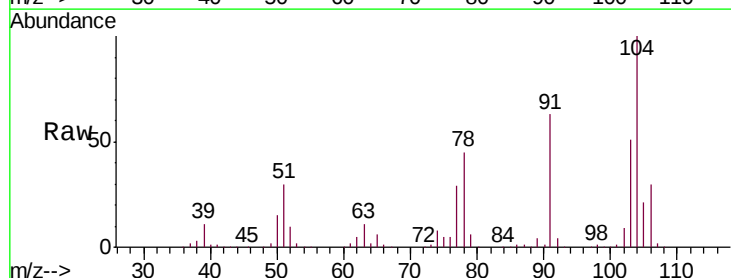
Acq: 19 Oct 2019 07:38

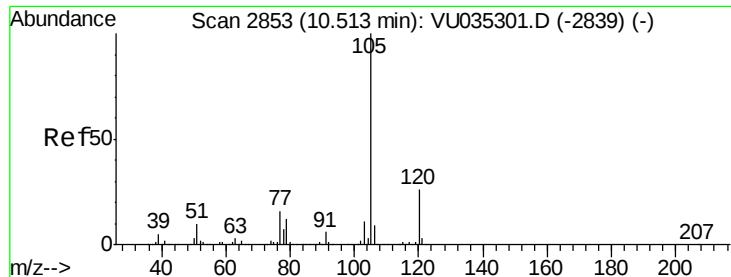
Tgt Ion:104 Resp: 674720

Ion Ratio Lower Upper

104 100

78 45.0 31.5 58.5





#56

Isopropylbenzene

Concen: 50.000 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

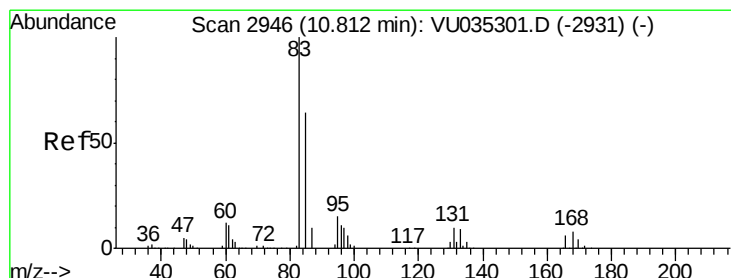
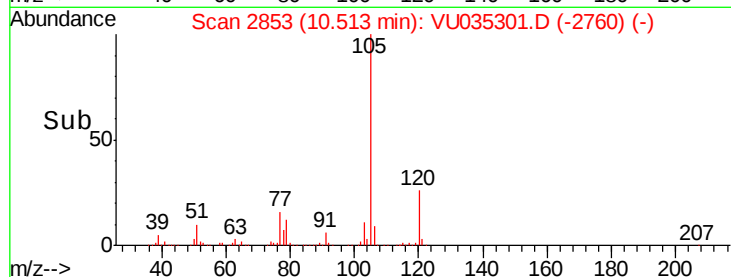
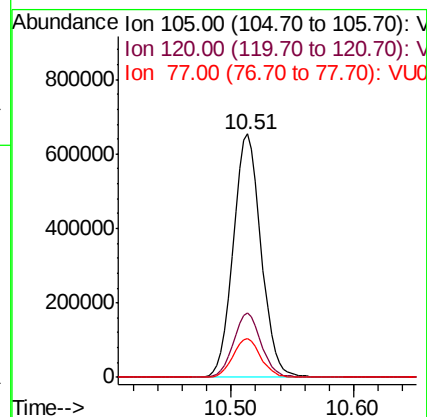
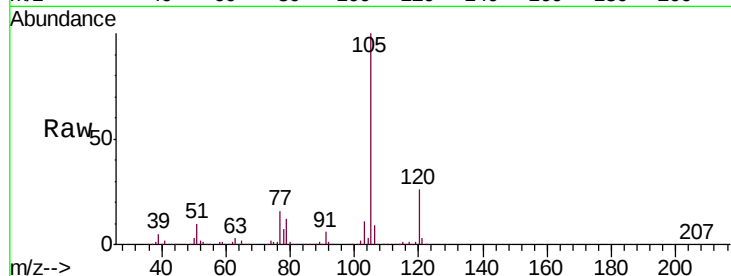
Tgt Ion:105 Resp: 1041601

Ion Ratio Lower Upper

105 100

120 26.4 21.1 31.7

77 15.9 12.7 19.1



#58

1,1,2,2-Tetrachloroethane

Concen: 50.000 ug/L

RT: 10.81 min Scan# 2946

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

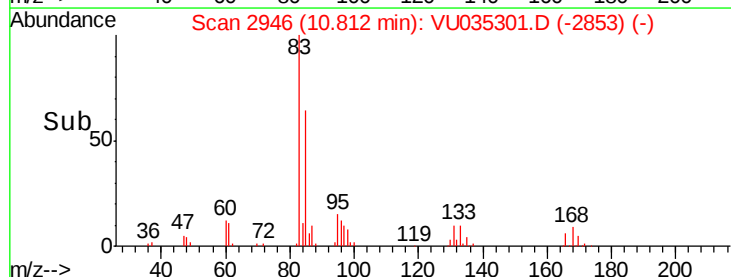
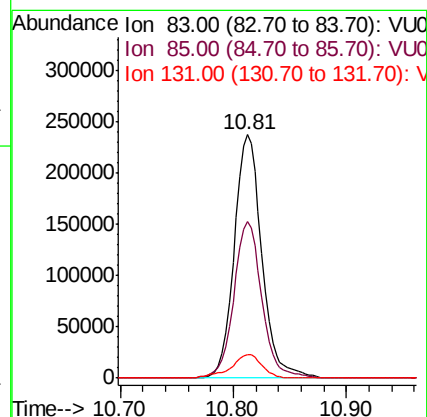
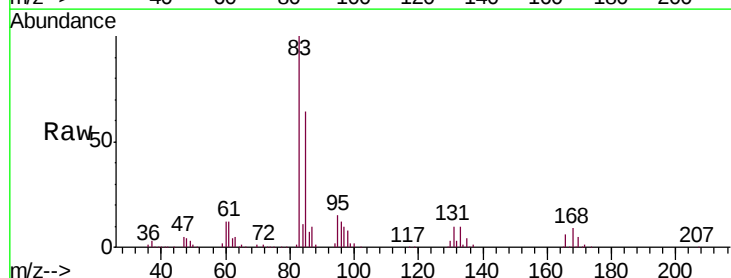
Tgt Ion: 83 Resp: 401766

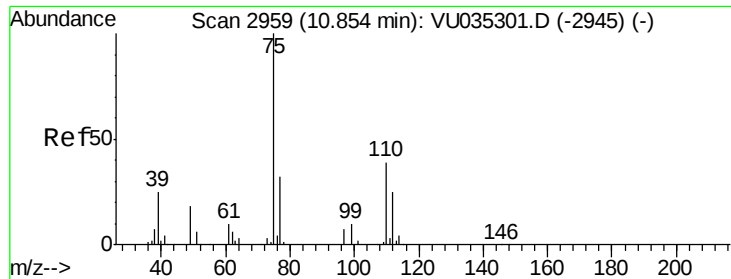
Ion Ratio Lower Upper

83 100

85 64.2 44.9 83.5

131 9.7 7.8 11.6

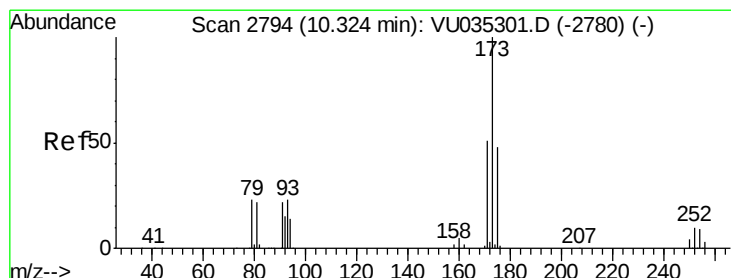
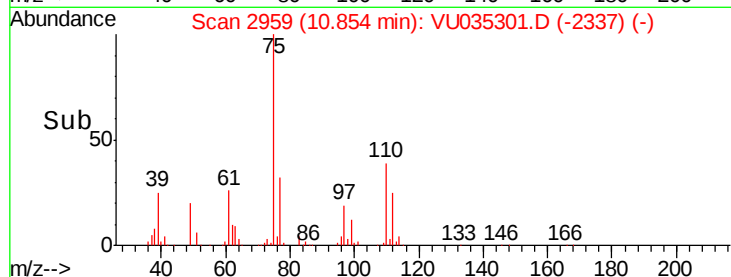
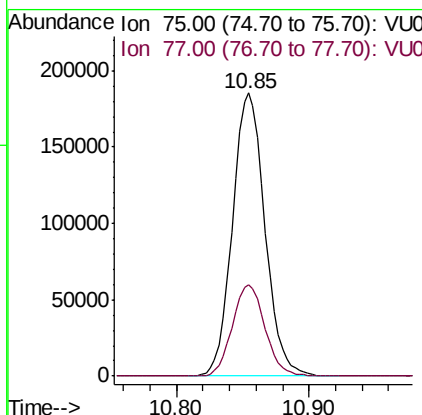
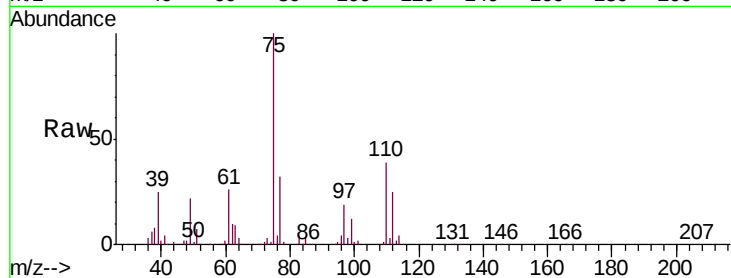




#59
 1,2,3-Trichloropropane
 Concen: 50.000 ug/L
 RT: 10.85 min Scan# 2959
 Delta R.T. 0.00 min
 Lab File: VU035301.D
 Acq: 19 Oct 2019 07:38

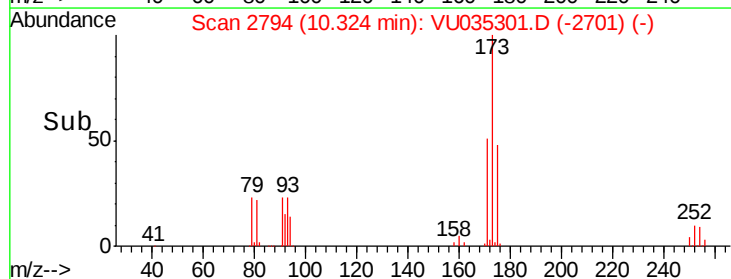
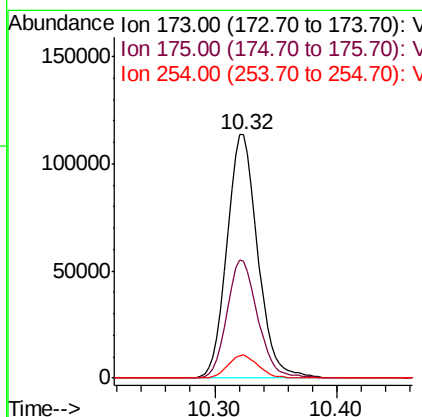
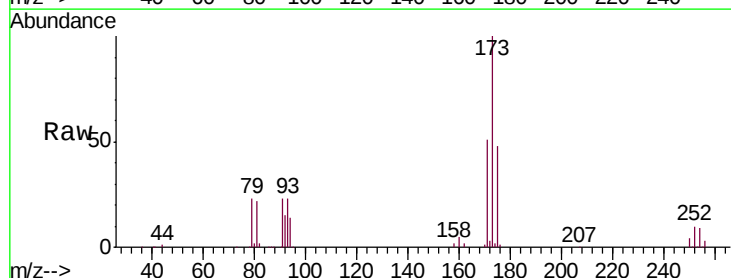
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

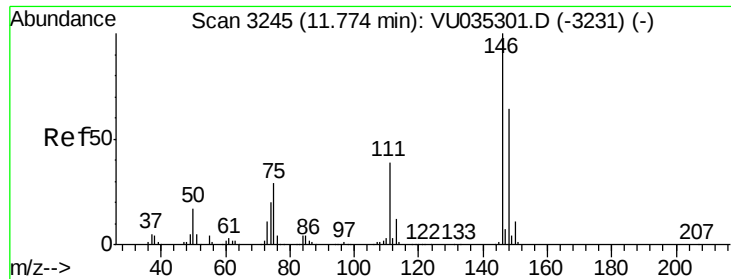
Tgt Ion: 75 Resp: 313922
 Ion Ratio Lower Upper
 75 100
 77 32.7 26.2 39.2



#61
 Bromoform
 Concen: 50.000 ug/L
 RT: 10.32 min Scan# 2794
 Delta R.T. 0.00 min
 Lab File: VU035301.D
 Acq: 19 Oct 2019 07:38

Tgt Ion: 173 Resp: 200553
 Ion Ratio Lower Upper
 173 100
 175 48.6 38.9 58.3
 254 9.5 7.6 11.4





#62

1,3-Dichlorobenzene

Concen: 50.000 ug/L

RT: 11.77 min Scan# 3245

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

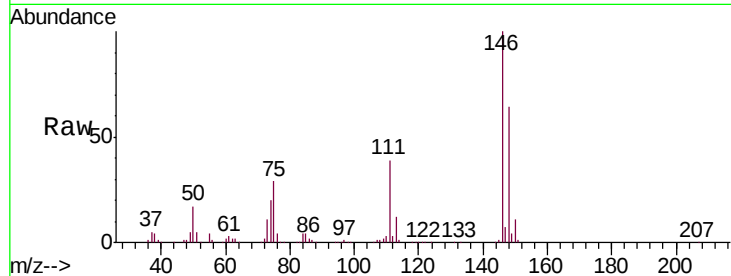
Tgt Ion:146 Resp: 460913

Ion Ratio Lower Upper

146 100

111 39.0 27.3 50.7

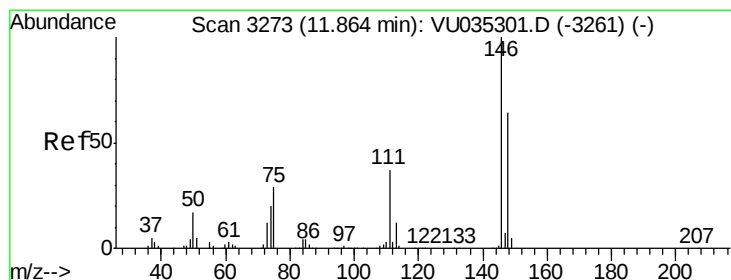
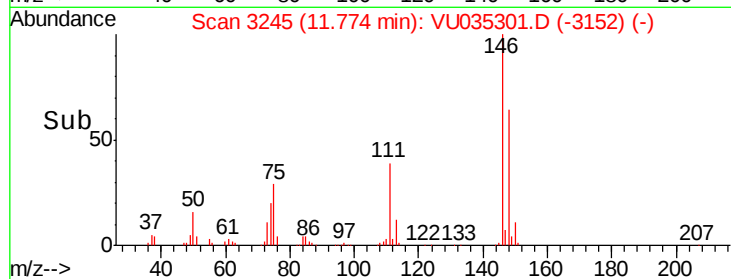
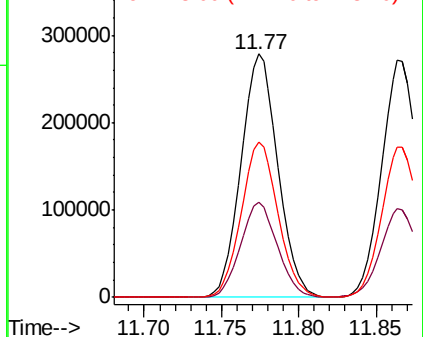
148 64.0 44.8 83.2



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



#63

1,4-Dichlorobenzene

Concen: 50.000 ug/L

RT: 11.86 min Scan# 3273

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

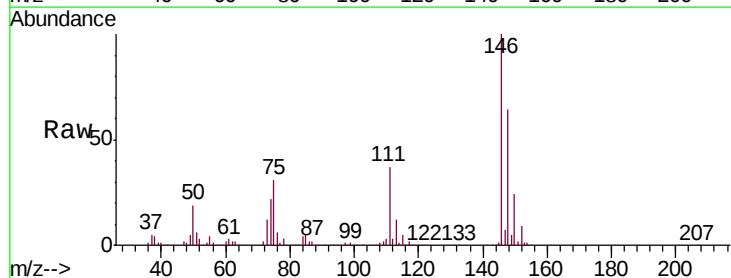
Tgt Ion:146 Resp: 452087

Ion Ratio Lower Upper

146 100

111 37.5 26.2 48.8

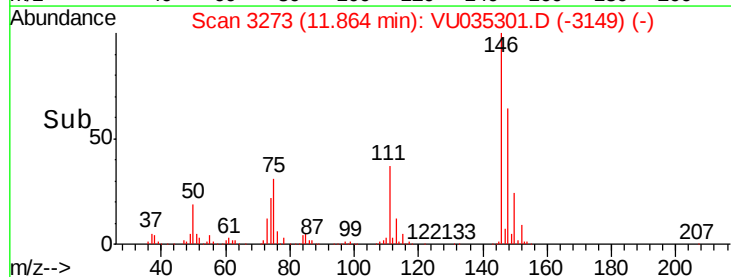
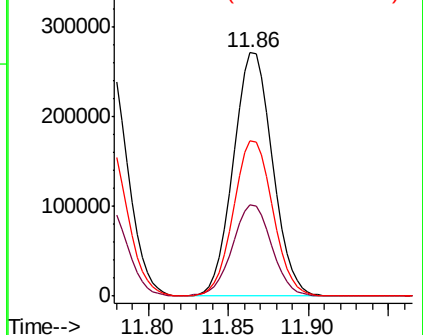
148 63.6 44.5 82.7

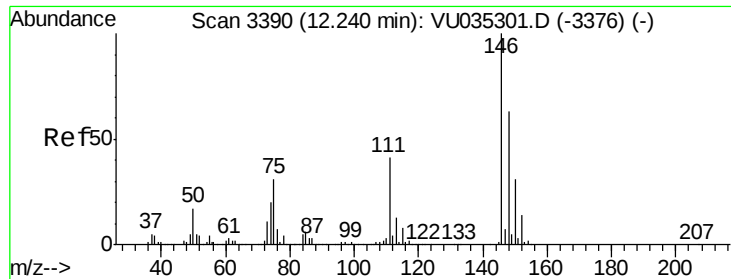


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

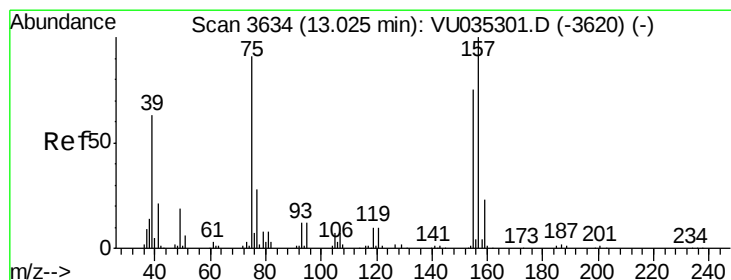
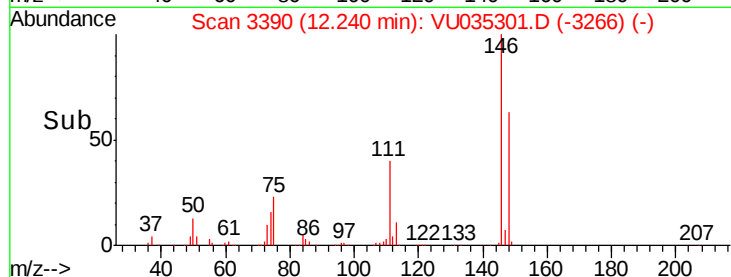
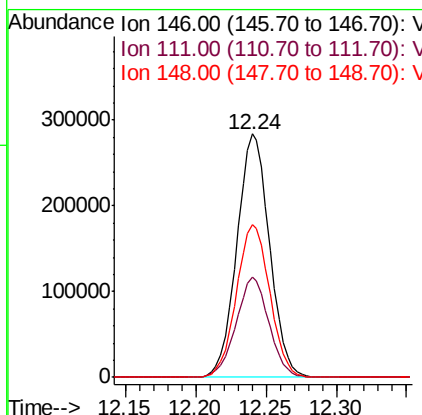
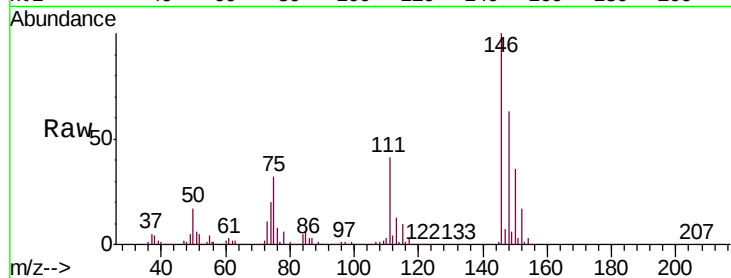




#65
 1,2-Dichlorobenzene
 Concen: 50.000 ug/L
 RT: 12.24 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VU035301.D
 Acq: 19 Oct 2019 07:38

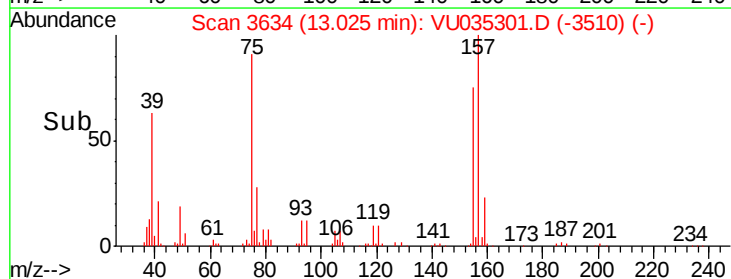
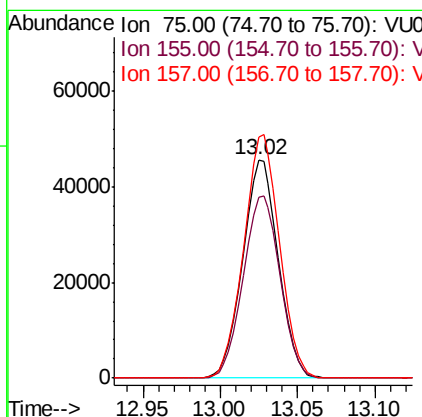
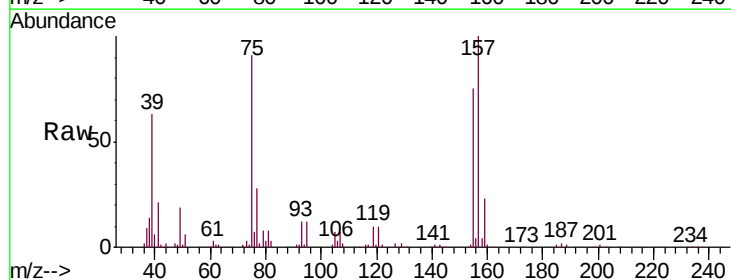
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

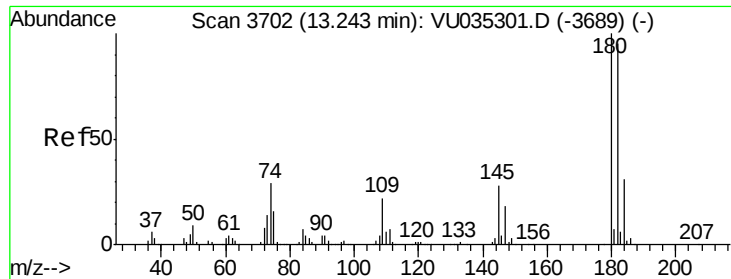
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.0	32.8	49.2
148	62.8	50.2	75.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.000 ug/L
 RT: 13.02 min Scan# 3634
 Delta R.T. 0.00 min
 Lab File: VU035301.D
 Acq: 19 Oct 2019 07:38

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.7	66.2	99.2
157	110.2	88.2	132.2

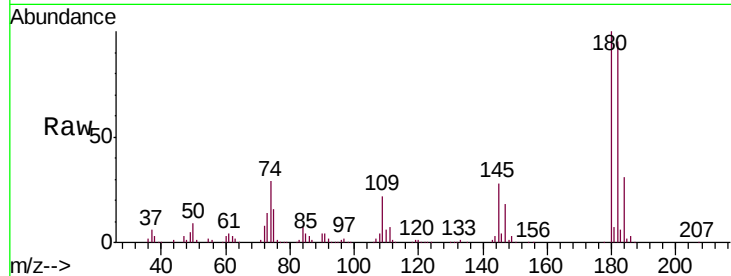




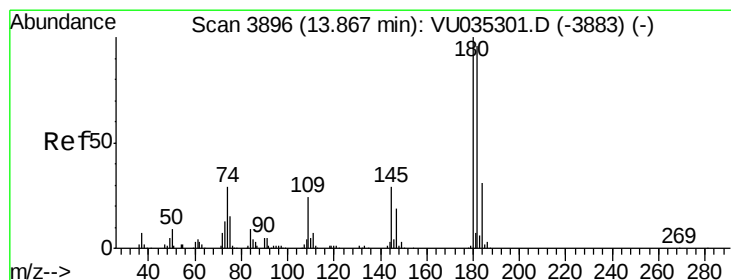
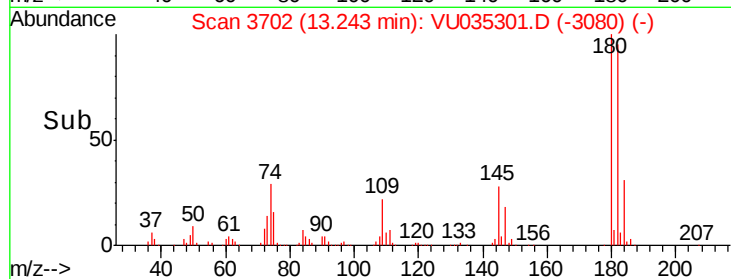
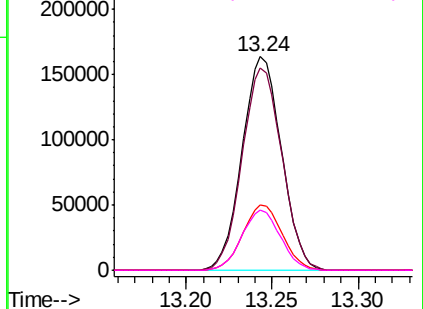
#67
 1,3,5-Trichlorobenzene
 Concen: 50.000 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.00 min
 Lab File: VU035301.D
 Acq: 19 Oct 2019 07:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

Tgt Ion:	180	Resp:	260827
Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.5	114.7
184	30.6	24.5	36.7
145	27.8	22.2	33.4

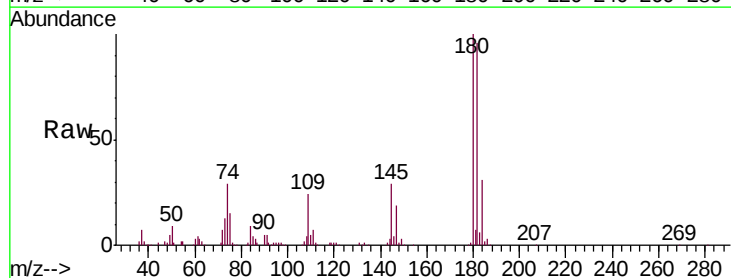


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

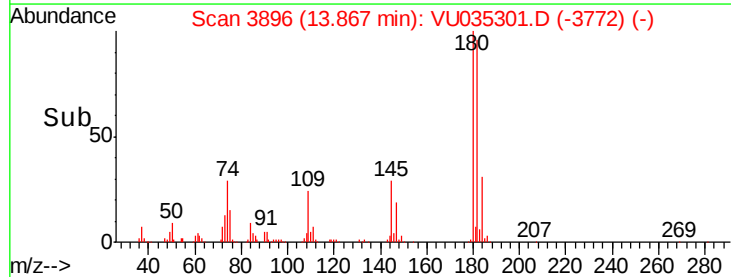
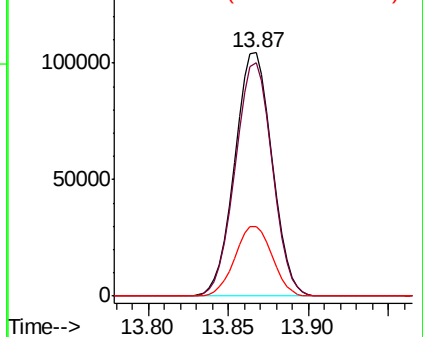


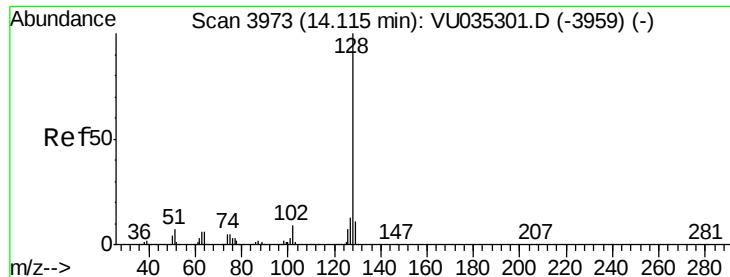
#68
 1,2,4-trichlorobenzene
 Concen: 50.000 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.00 min
 Lab File: VU035301.D
 Acq: 19 Oct 2019 07:38

Tgt Ion:	180	Resp:	165821
Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.2	114.2
145	28.5	22.8	34.2



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: 50.000 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

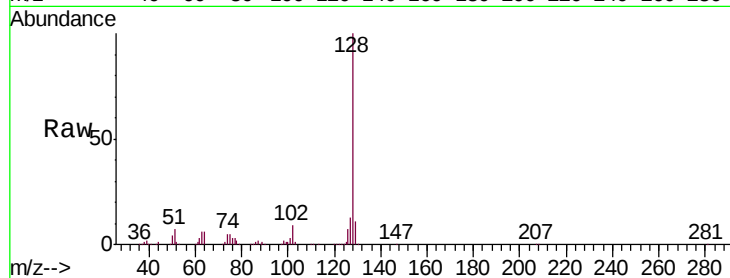
Tgt Ion:128 Resp: 414135

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

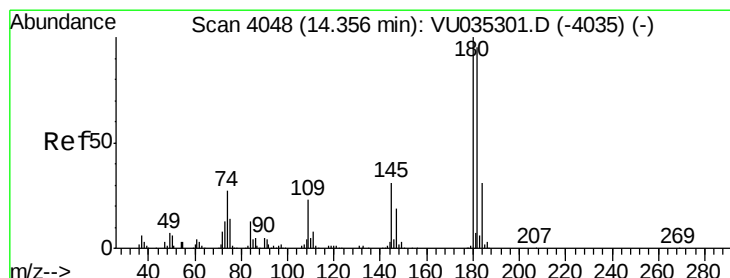
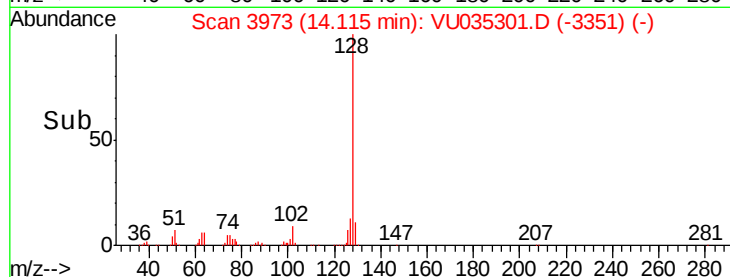
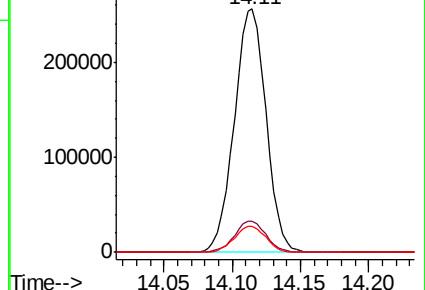
129 10.8 8.6 13.0



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: 50.000 ug/L

RT: 14.36 min Scan# 4048

Delta R.T. 0.00 min

Lab File: VU035301.D

Acq: 19 Oct 2019 07:38

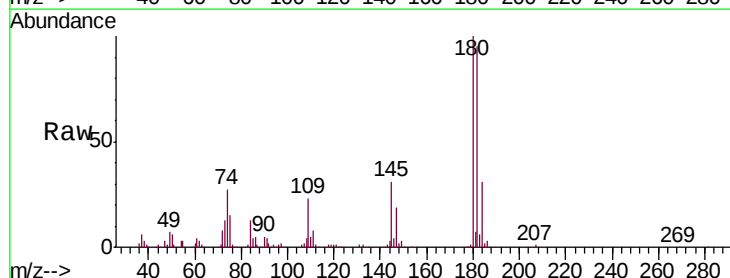
Tgt Ion:180 Resp: 175000

Ion Ratio Lower Upper

180 100

182 95.2 76.2 114.2

145 30.3 24.2 36.4



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

