

Data File : VU031400.D
Acq On : 22 Apr 2019 18:14
Operator : JC/SP
Sample : VSTD05050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Quant Time: Apr 23 02:59:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042319WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Apr 23 02:55:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	715106	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	656330	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	316890	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	294388	45.08	ug/L	0.00
7) Chloroethane-d5	1.68	69	223975	40.97	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	517267	40.70	ug/L	0.00
21) 2-Butanone-d5	4.19	46	450207	96.09	ug/L	0.00
24) Chloroform-d	4.64	84	469421	44.17	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	285279	43.70	ug/L	0.00
32) Benzene-d6	5.34	84	975196	47.61	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	314673	47.17	ug/L	0.00
41) Toluene-d8	7.56	98	872747	48.33	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	145032	45.93	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	329468	103.29	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	432484	46.65	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	325607	45.10	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	263443	41.125	ug/L	100
3) Chloromethane	1.32	50	325448	42.197	ug/L	100
5) Vinyl chloride	1.40	62	330175	42.740	ug/L	100
6) Bromomethane	1.63	94	192553	38.986	ug/L	100
8) Chloroethane	1.70	64	188788	39.095	ug/L	100
9) Trichlorofluoromethane	1.88	101	403264	38.530	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	235384	42.133	ug/L	100
12) 1,1-Dichloroethene	2.28	96	231322	42.126	ug/L	100
13) Acetone	2.34	43	349905	94.410	ug/L	100
14) Carbon disulfide	2.47	76	672762	44.789	ug/L	100
15) Methyl Acetate	2.62	43	315068	48.722	ug/L	100
16) Methylene chloride	2.70	84	259045	47.502	ug/L	100
17) trans-1,2-Dichloroethene	2.98	96	237577	46.316	ug/L	100
18) Methyl tert-butyl Ether	2.99	73	775732	48.033	ug/L	100
19) 1,1-Dichloroethane	3.44	63	459250	45.515	ug/L	100
20) cis-1,2-Dichloroethene	4.22	96	265446	45.733	ug/L	100
22) 2-Butanone	4.27	43	480322	97.029	ug/L	100
23) Bromochloromethane	4.54	128	131291	45.625	ug/L	100
25) Chloroform	4.67	83	450760	44.731	ug/L	100
27) 1,2-Dichloroethane	5.40	62	329589	43.081	ug/L	100
29) Cyclohexane	4.99	56	432894	47.830	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	372785	43.951	ug/L	100
31) Carbon tetrachloride	5.13	117	320919	43.782	ug/L	100
33) Benzene	5.39	78	1001407	46.098	ug/L	100
34) Trichloroethene	6.18	95	255735	46.564	ug/L	100
35) Methylcyclohexane	6.41	83	385006	46.969	ug/L	100
37) 1,2-Dichloropropane	6.43	63	265399	45.786	ug/L	100
38) Bromodichloromethane	6.75	83	329185	45.004	ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	413877	47.371	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	820234	99.574	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	1061929	48.488	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	350269	46.667	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	242998	46.603	ug/L	100
46) Tetrachloroethene	8.22	164	190368	46.250	ug/L	100
48) 2-Hexanone	8.36	43	655934	100.261	ug/L	100
49) Dibromochloromethane	8.47	129	261507	46.458	ug/L	100
50) 1,2-Dibromoethane	8.58	107	263513	47.648	ug/L	100
51) Chlorobenzene	9.12	112	647318	47.426	ug/L	100
52) Ethylbenzene	9.25	91	1126627	47.379	ug/L	100
53) m,p-Xylene	9.37	106	417929	49.612	ug/L	100
54) o-xylene	9.77	106	420921	49.275	ug/L	100
55) Styrene	9.79	104	701184	49.005	ug/L	100
56) Isopropylbenzene	10.16	105	1091133	49.850	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	421813	46.879	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	332053	47.925	ug/L	100
61) Bromoform	9.95	173	198478	45.734	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	478998	45.887	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	482614	46.268	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	492136	44.961	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	93876	44.812	ug/L	100
67) 1,3,5-Trichlorobenzene	12.88	180	364137	46.690	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	301372	47.937	ug/L	100
69) Naphthalene	13.74	128	1052933	52.693	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	325034	47.465	ug/L	100

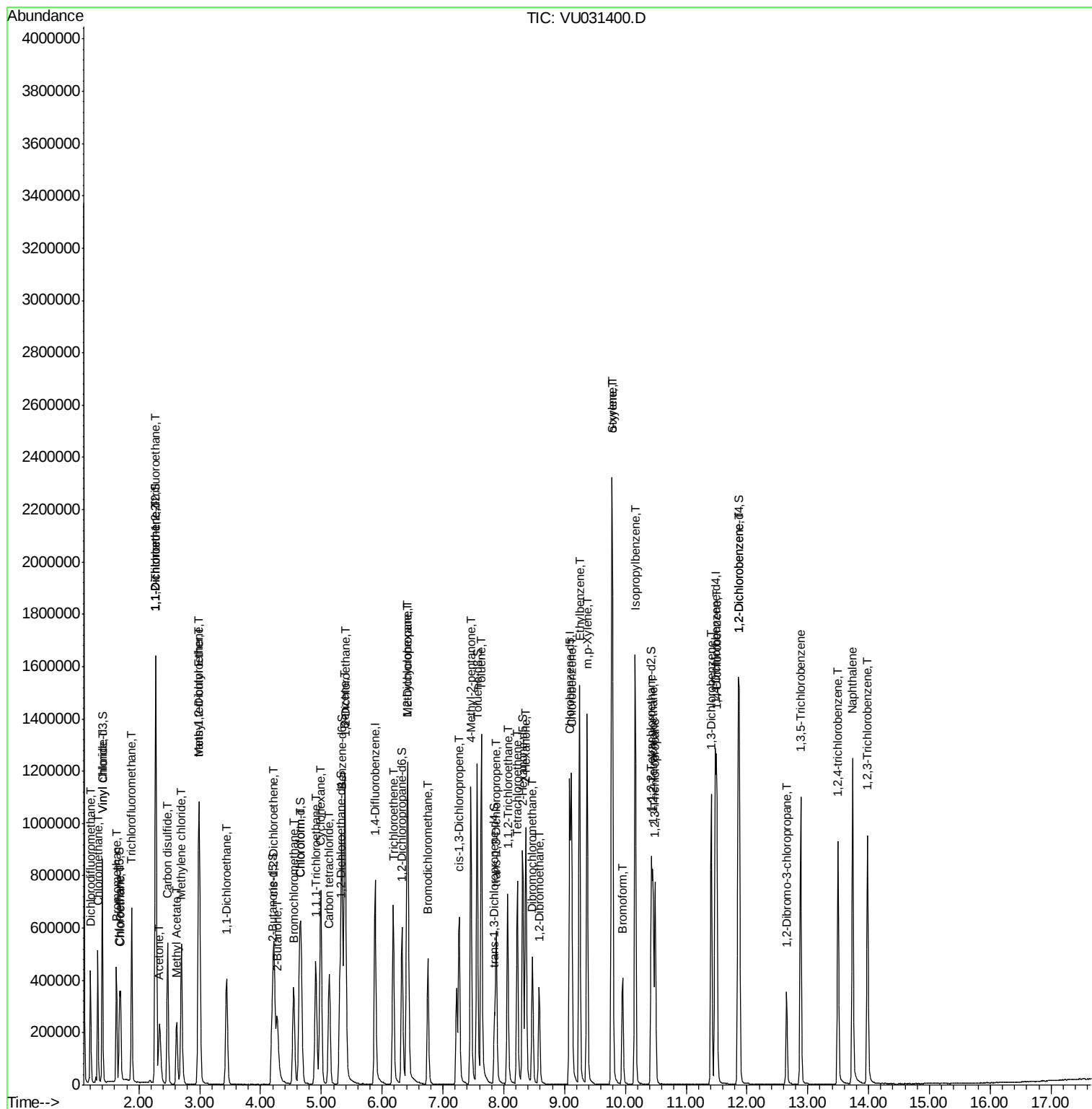
(#) = qualifier out of range (m) = manual integration (+) = signals summed

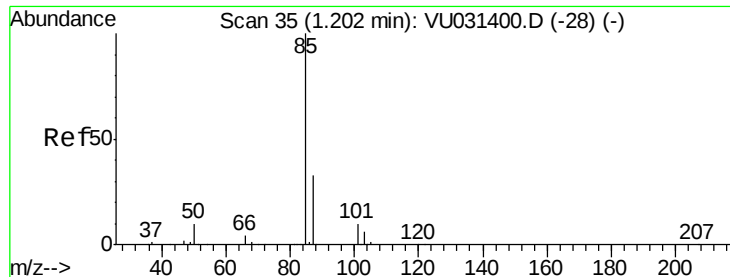
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#2

Dichlorodifluoromethane

Concen: 41.125 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Instrument :

MSVOA_U

ClientSampled :

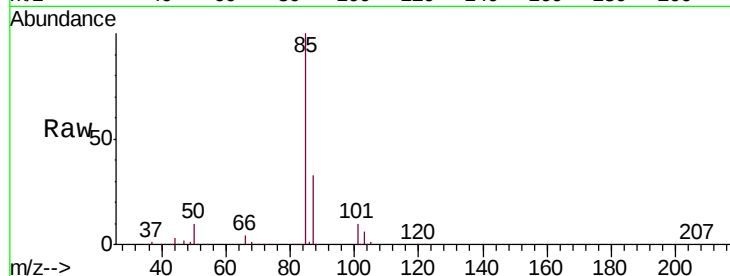
VSTD05050

Tgt Ion: 85 Resp: 263443

Ion Ratio Lower Upper

85 100

87 32.9 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU031400.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU031400.D (-28) (-)

1.20

250000

200000

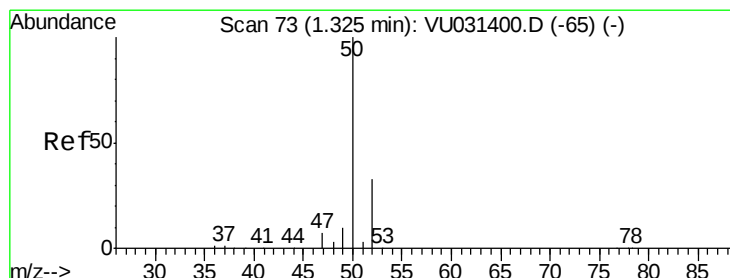
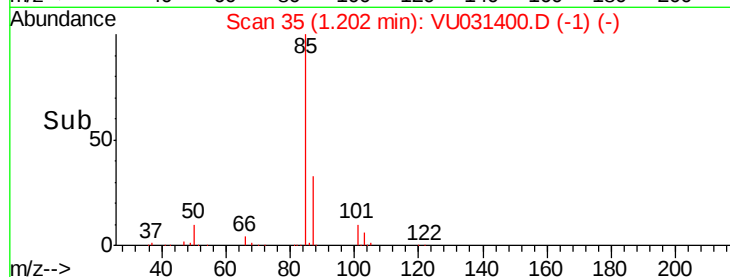
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 42.197 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031400.D

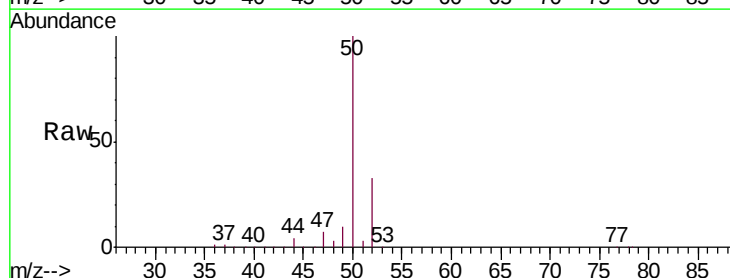
Acq: 22 Apr 2019 18:14

Tgt Ion: 50 Resp: 325448

Ion Ratio Lower Upper

50 100

52 32.7 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU031400.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU031400.D (-65) (-)

1.32

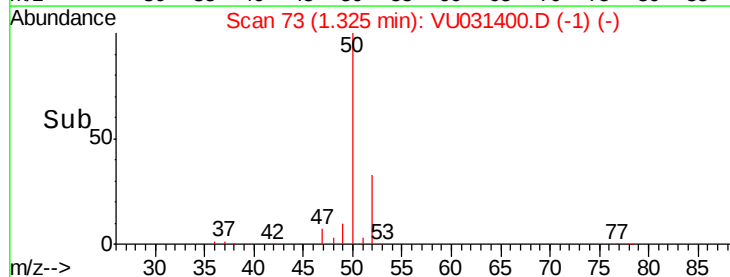
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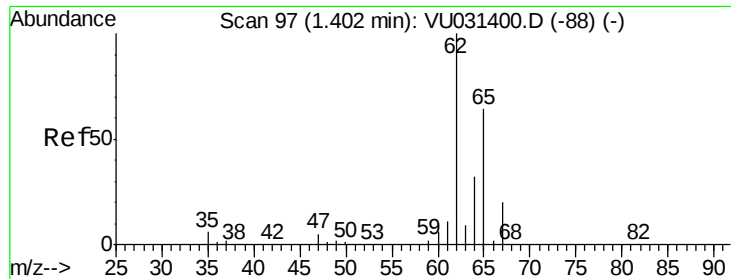
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 42.740 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Instrument :

MSVOA_U

ClientSampleId :

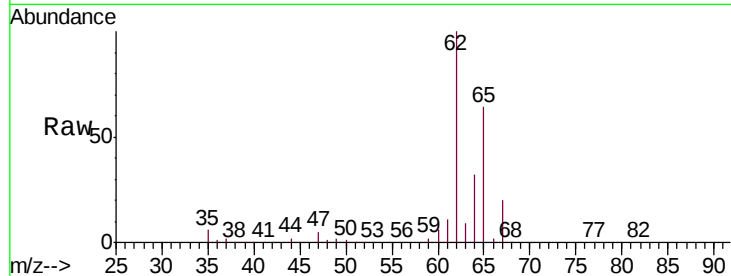
VSTD05050

Tgt Ion: 62 Resp: 330175

Ion Ratio Lower Upper

62 100

64 32.5 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU031400.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU031400.D (-88) (-)

1.40

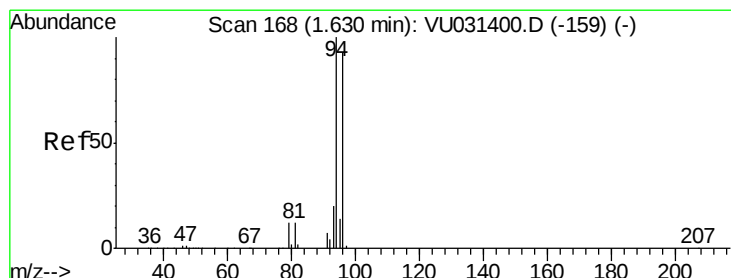
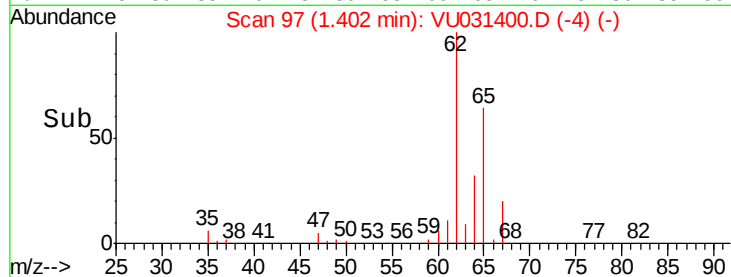
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 38.986 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU031400.D

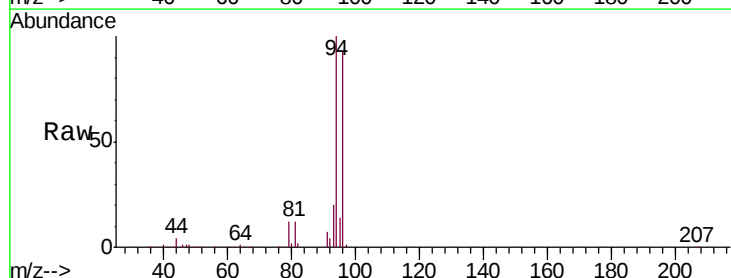
Acq: 22 Apr 2019 18:14

Tgt Ion: 94 Resp: 192553

Ion Ratio Lower Upper

94 100

96 93.0 65.1 120.9



Abundance Ion 94.00 (93.70 to 94.70): VU031400.D (-159) (-)

Ion 96.00 (95.70 to 96.70): VU031400.D (-159) (-)

1.63

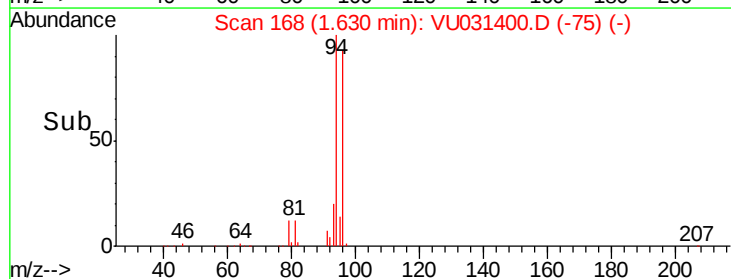
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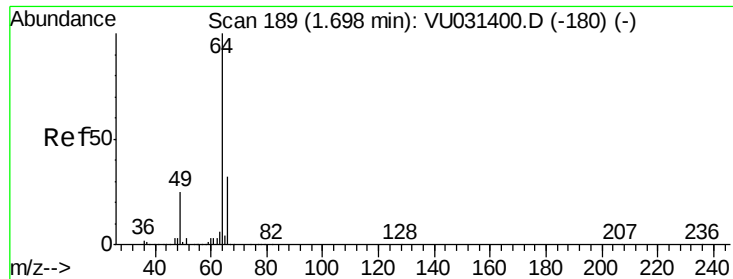
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50000

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Time-->

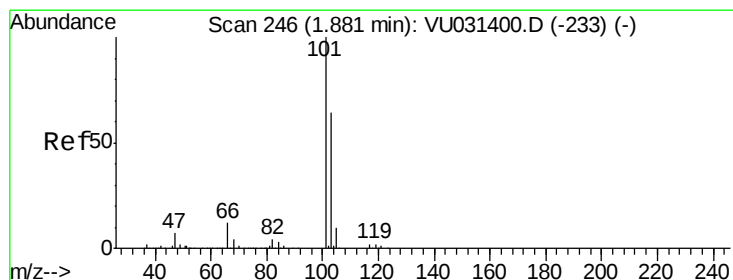
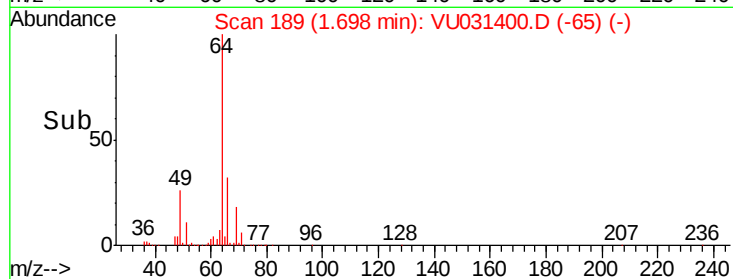
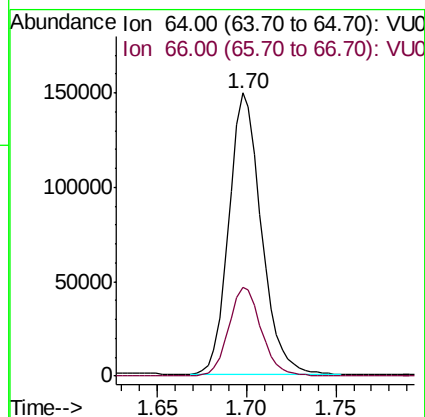
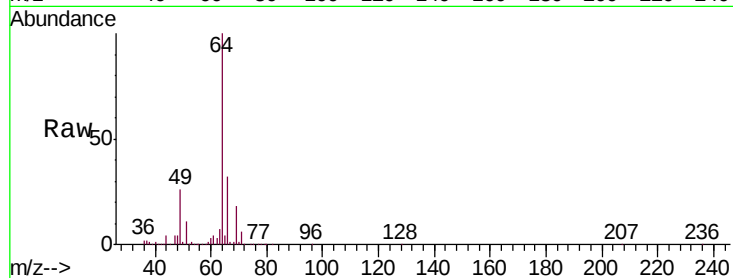




#8
Chloroethane
Concen: 39.095 ug/L
RT: 1.70 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU031400.D
Acq: 22 Apr 2019 18:14

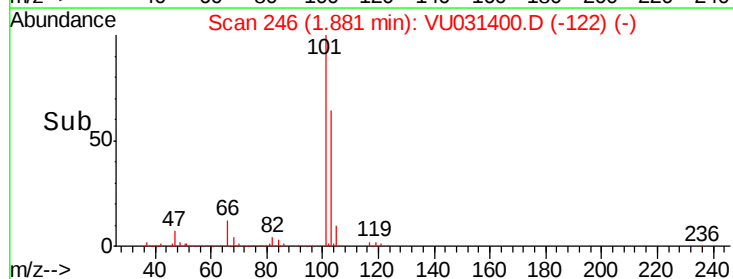
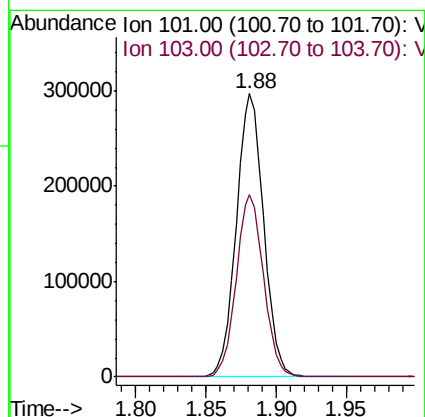
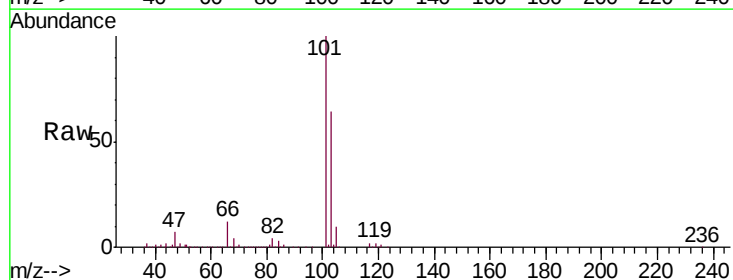
Instrument :
MSVOA_U
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VSTD05050

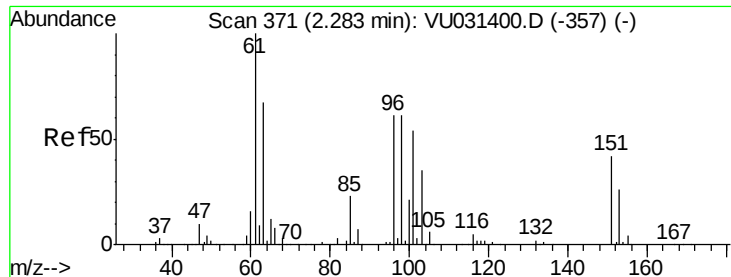
Tgt Ion: 64 Resp: 188788
Ion Ratio Lower Upper
64 100
66 31.6 22.1 41.1



#9
Trichlorofluoromethane
Concen: 38.530 ug/L
RT: 1.88 min Scan# 246
Delta R.T. 0.00 min
Lab File: VU031400.D
Acq: 22 Apr 2019 18:14

Tgt Ion: 101 Resp: 403264
Ion Ratio Lower Upper
101 100
103 64.3 51.4 77.2





#10

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

Concen: 42.133 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

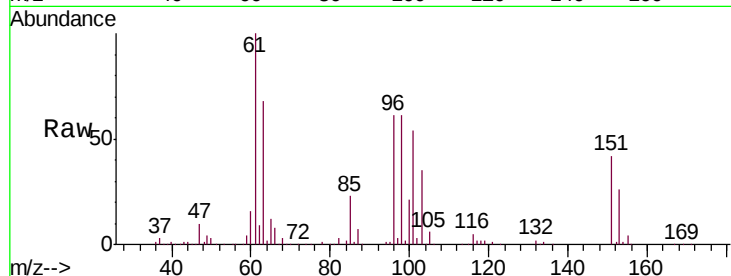
Tgt Ion: 101 Resp: 235384

Ion Ratio Lower Upper

101 100

85 41.4 33.1 49.7

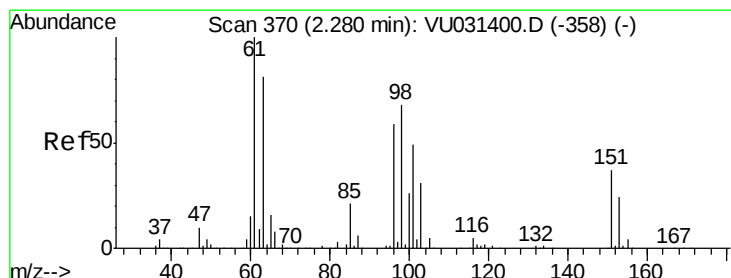
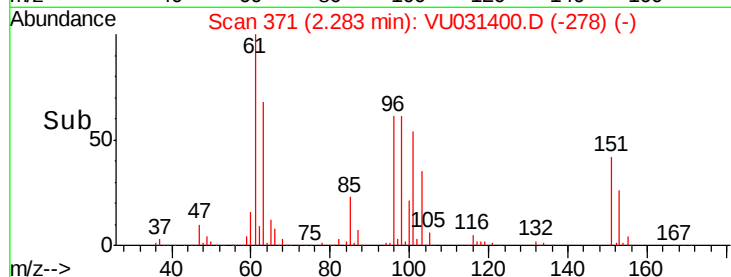
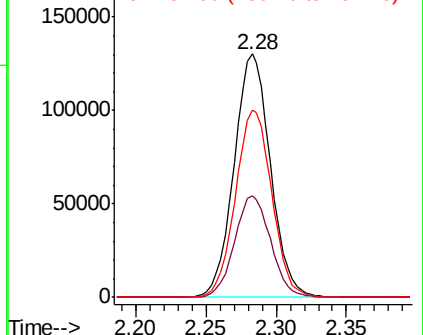
151 76.7 61.4 92.0



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: 42.126 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

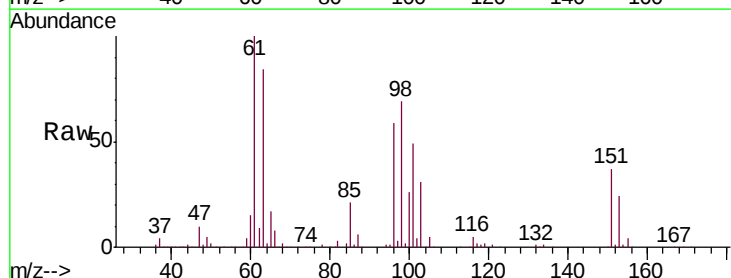
Tgt Ion: 96 Resp: 231322

Ion Ratio Lower Upper

96 100

61 169.9 118.9 220.9

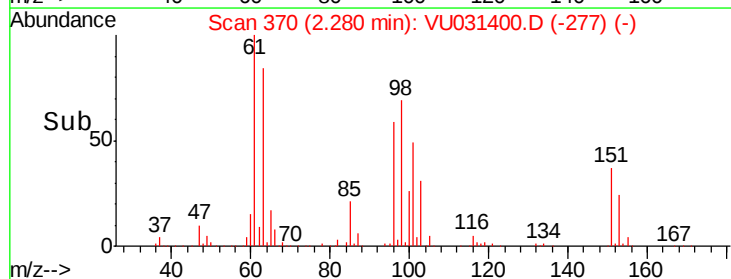
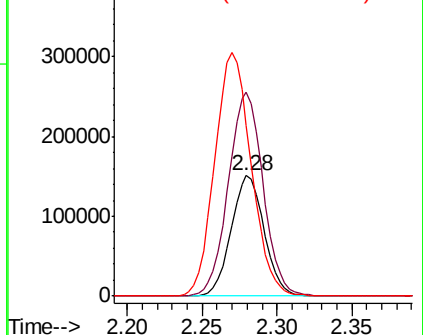
63 141.8 99.3 184.3

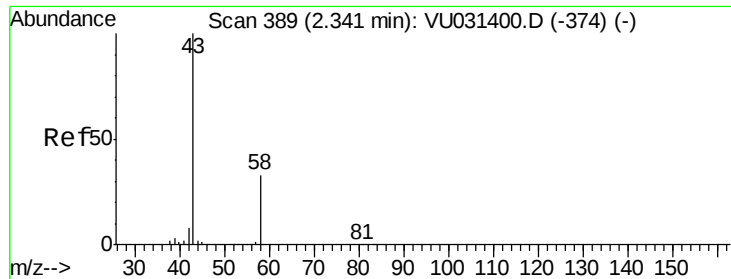


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 94.410 ug/L

RT: 2.34 min Scan# 389

Delta R.T. 0.00 min

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ClientSampleId :

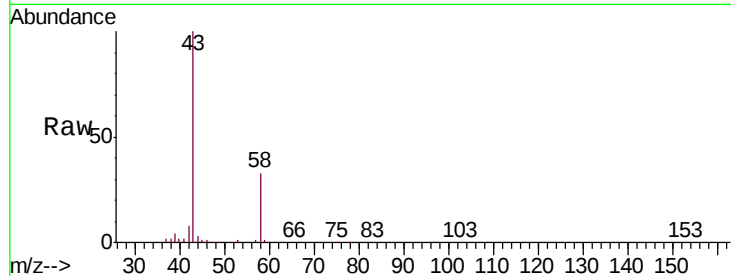
VSTD05050

Tgt Ion: 43 Resp: 349905

Ion Ratio Lower Upper

43 100

58 33.2 0.0 66.4



Abundance Ion 43.00 (42.70 to 43.70): VU031400.D (-374) (-)

Ion 58.00 (57.70 to 58.70): VU031400.D (-374) (-)

2.34

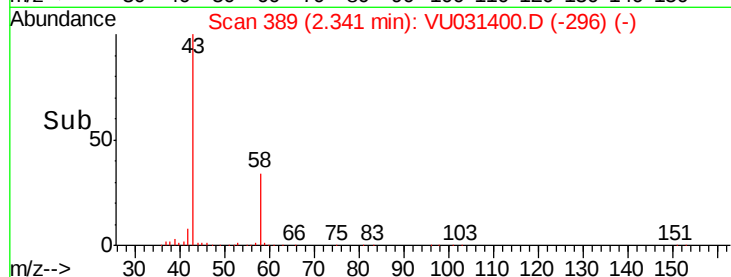
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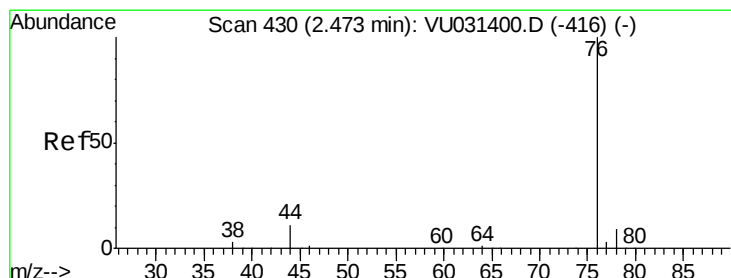
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Time-->



Time-->



#14

Carbon disulfide

Concen: 44.789 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031400.D

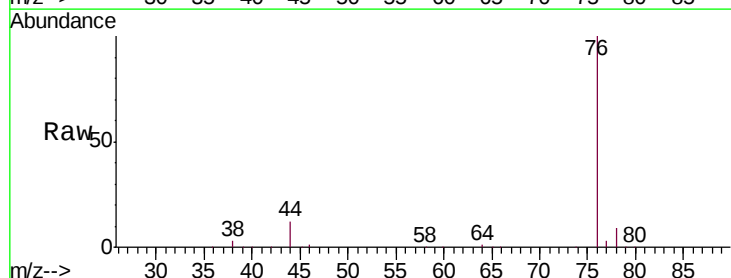
Acq: 22 Apr 2019 18:14

Tgt Ion: 76 Resp: 672762

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU031400.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU031400.D (-416) (-)

2.47

500000

400000

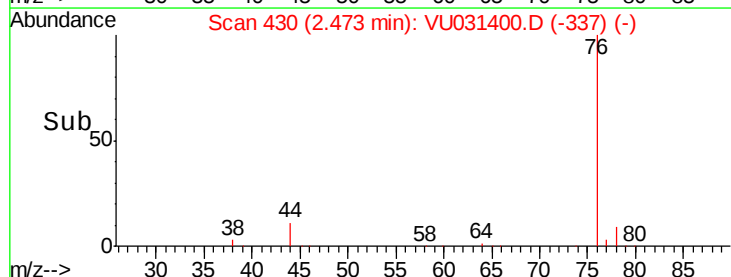
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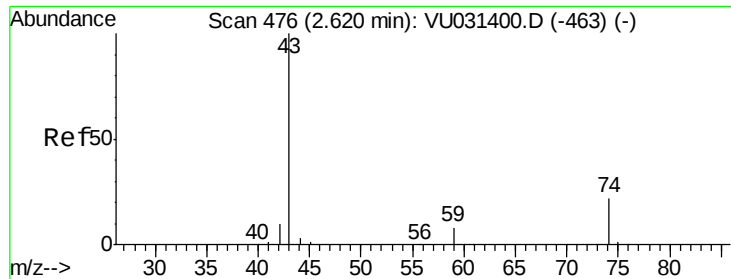
100000

0

Time-->



Time-->



#15

Methyl Acetate

Concen: 48.722 ug/L

RT: 2.62 min Scan# 476

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Instrument :

MSVOA_U

ClientSampleId :

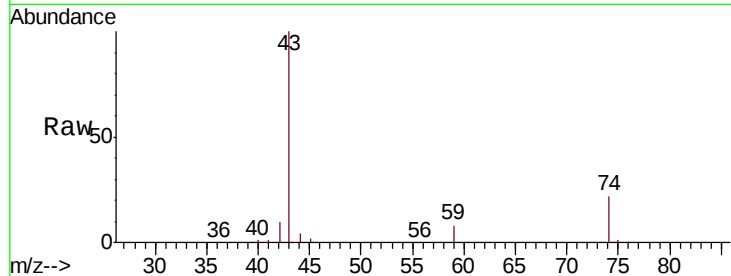
VSTD05050

Tgt Ion: 43 Resp: 315068

Ion Ratio Lower Upper

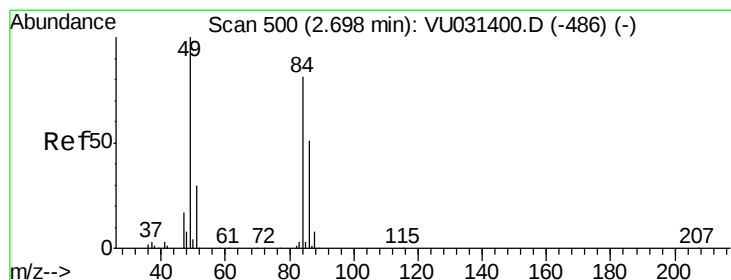
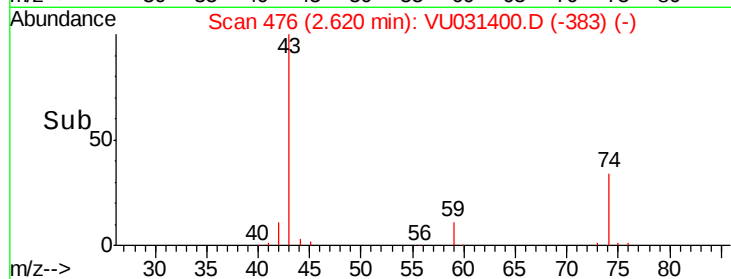
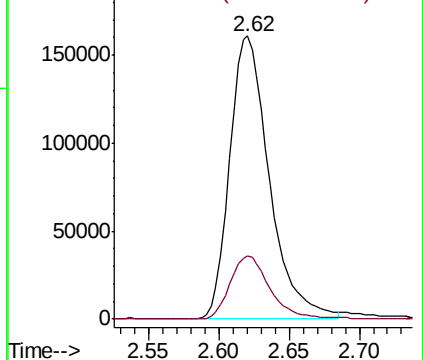
43 100

74 22.6 18.1 27.1



Abundance Ion 43.00 (42.70 to 43.70): VU031400.D (-463) (-)

Ion 74.00 (73.70 to 74.70): VU031400.D (-463) (-)



#16

Methylene chloride

Concen: 47.502 ug/L

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

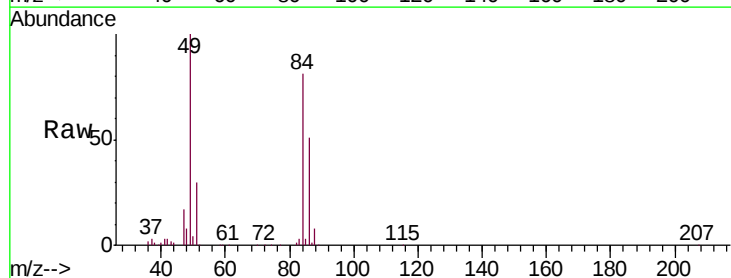
Tgt Ion: 84 Resp: 259045

Ion Ratio Lower Upper

84 100

86 63.5 44.4 82.5

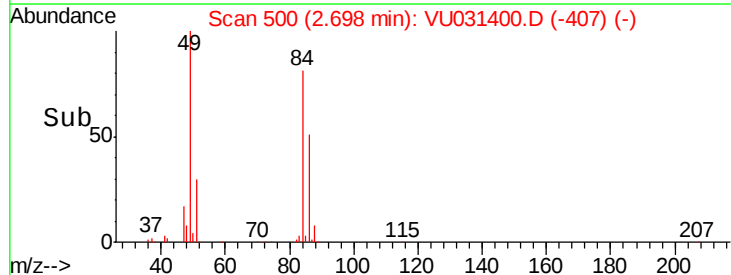
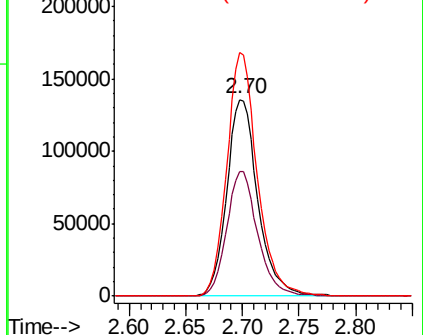
49 123.9 86.7 161.1

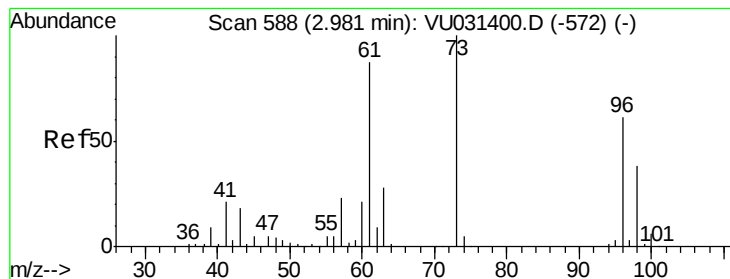


Abundance Ion 84.00 (83.70 to 84.70): VU031400.D (-486) (-)

Ion 86.00 (85.70 to 86.70): VU031400.D (-486) (-)

Ion 49.00 (48.70 to 49.70): VU031400.D (-486) (-)





#17

trans-1,2-Dichloroethene

Concen: 46.316 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

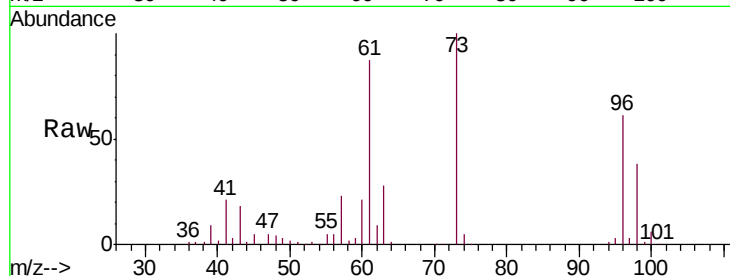
Tgt Ion: 96 Resp: 237577

Ion Ratio Lower Upper

96 100

61 143.3 100.3 186.3

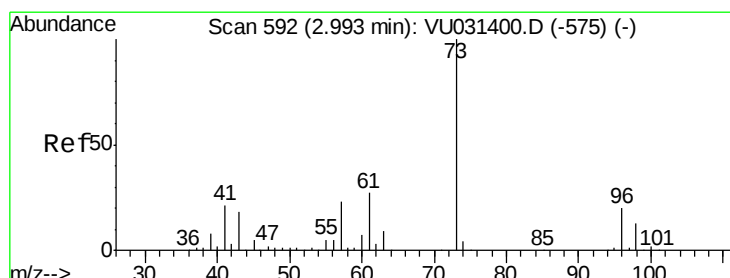
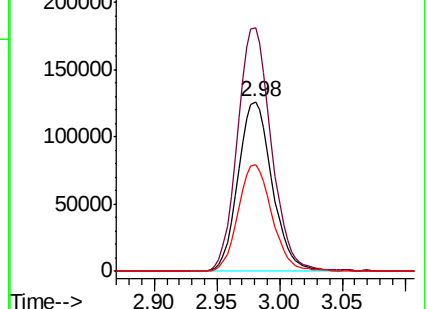
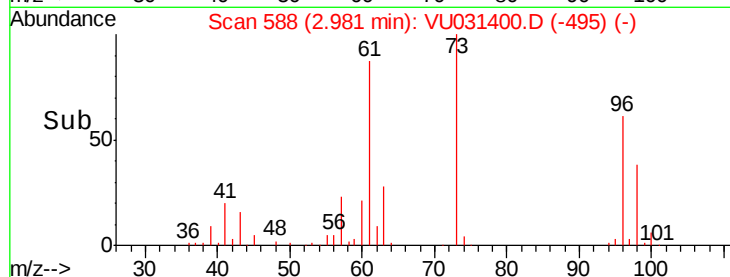
98 62.8 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU031400.D (-572) (-)

Ion 61.00 (60.70 to 61.70): VU031400.D (-572) (-)

Ion 98.00 (97.70 to 98.70): VU031400.D (-572) (-)



#18

Methyl tert-butyl Ether

Concen: 48.033 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

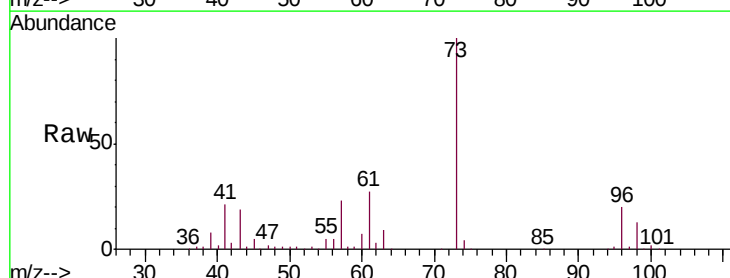
Tgt Ion: 73 Resp: 775732

Ion Ratio Lower Upper

73 100

43 18.2 14.6 21.8

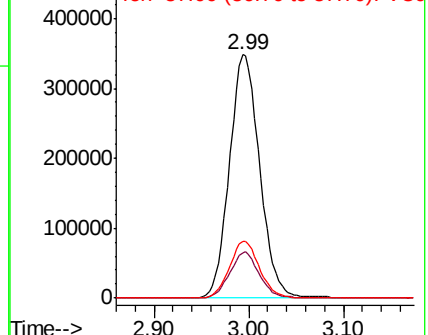
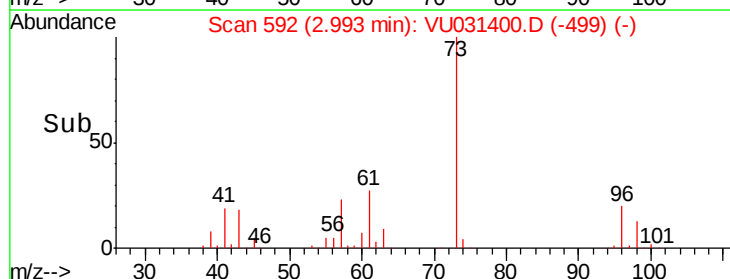
57 23.1 18.5 27.7

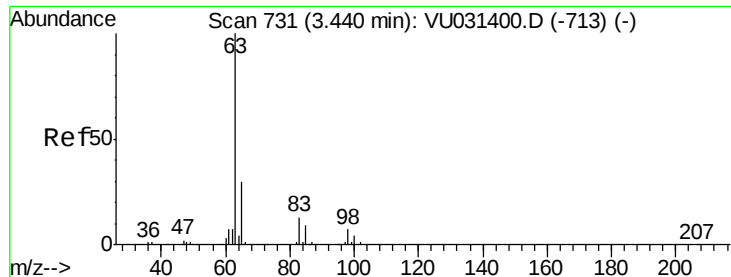


Abundance Ion 73.00 (72.70 to 73.70): VU031400.D (-575) (-)

Ion 43.00 (42.70 to 43.70): VU031400.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU031400.D (-575) (-)

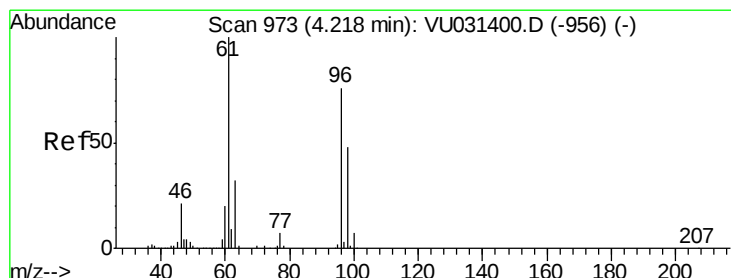
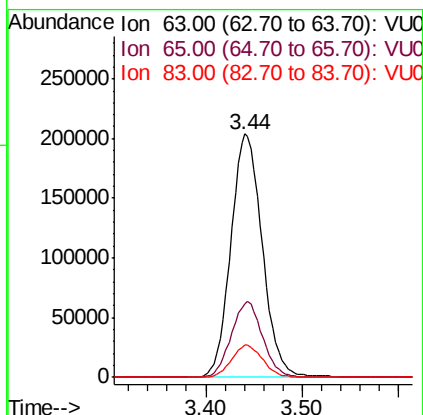
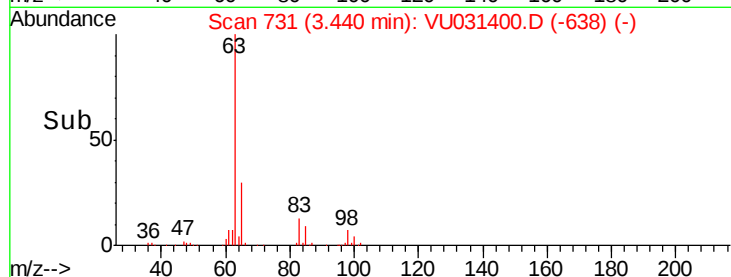
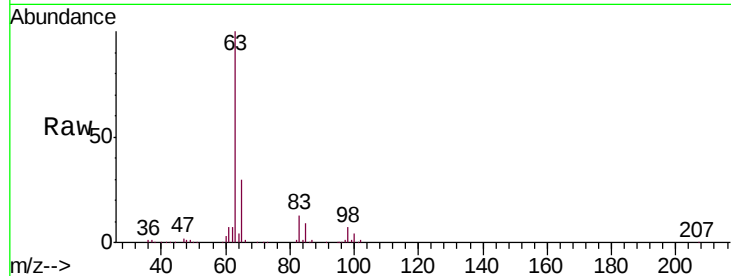




#19
 1,1-Dichloroethane
 Concen: 45.515 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU031400.D
 Acq: 22 Apr 2019 18:14

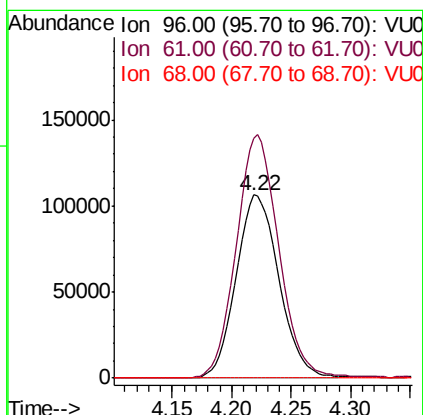
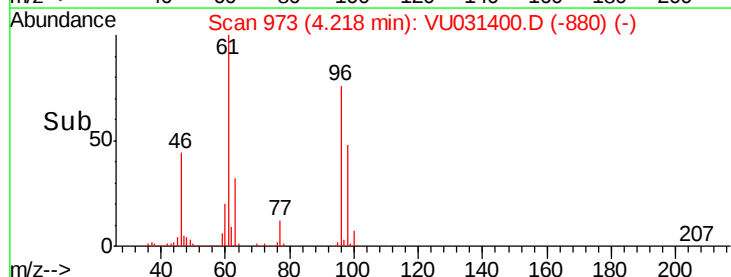
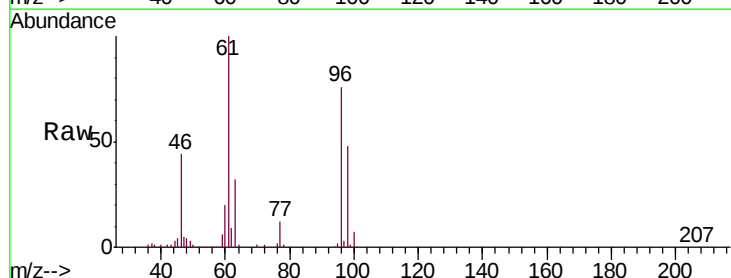
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

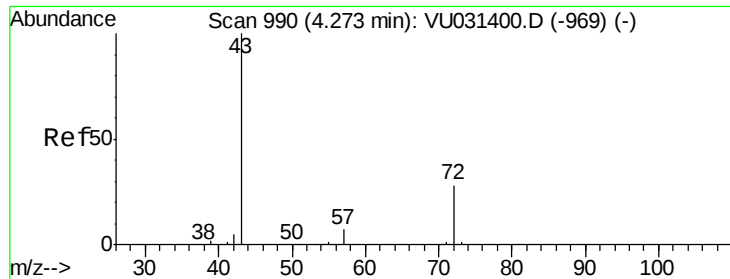
Tgt Ion: 63 Resp: 459250
 Ion Ratio Lower Upper
 63 100
 65 30.3 21.2 39.4
 83 13.2 9.2 17.2



#20
 cis-1,2-Dichloroethene
 Concen: 45.733 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU031400.D
 Acq: 22 Apr 2019 18:14

Tgt Ion: 96 Resp: 265446
 Ion Ratio Lower Upper
 96 100
 61 131.3 91.9 170.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 97.029 ug/L

RT: 4.27 min Scan# 990

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

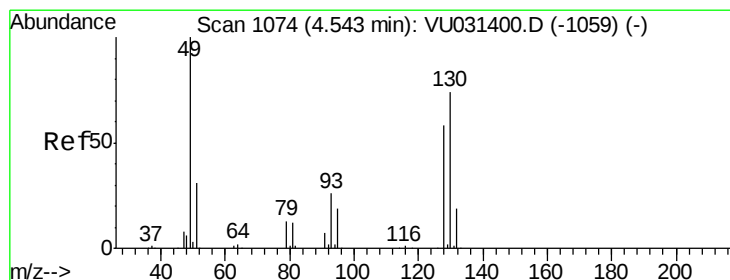
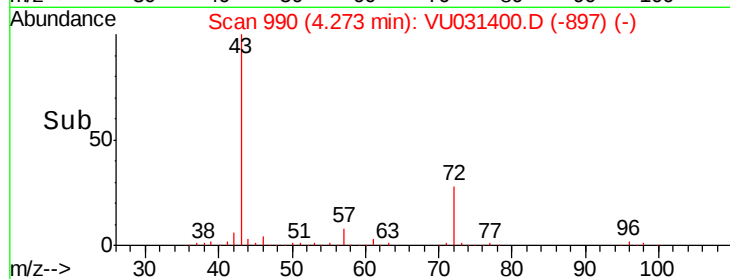
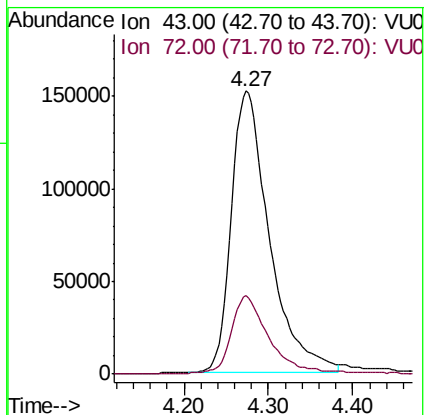
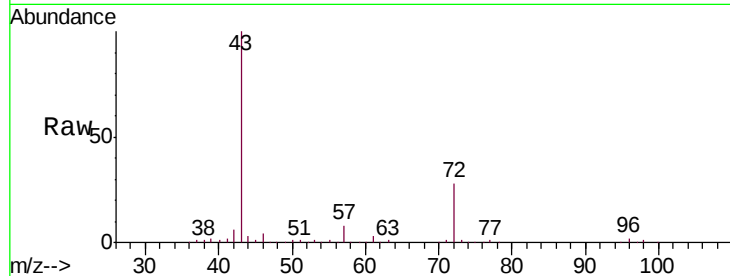
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Tgt Ion: 43 Resp: 480322

Ion Ratio Lower Upper

43 100

72 25.2 12.6 37.8



#23

Bromochloromethane

Concen: 45.625 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Tgt Ion: 128 Resp: 131291

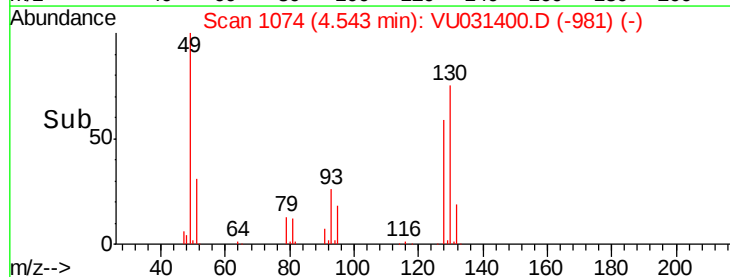
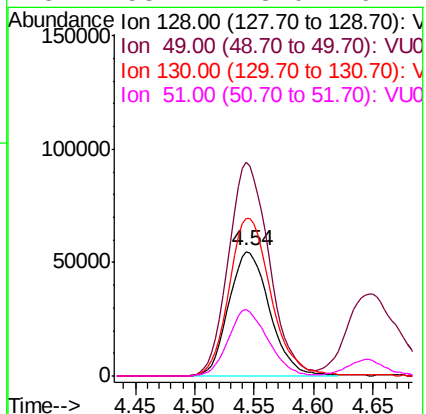
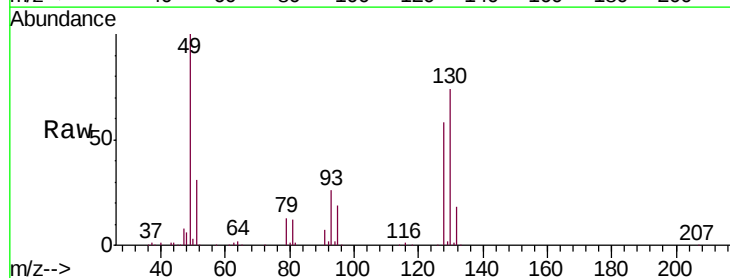
Ion Ratio Lower Upper

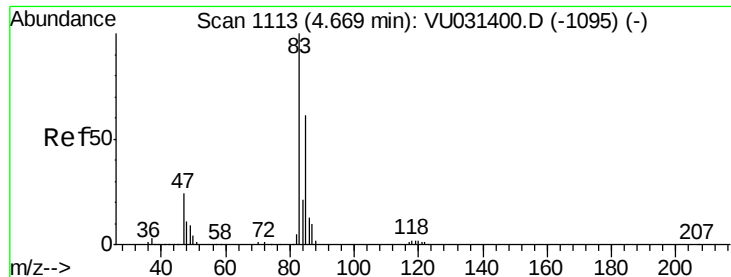
128 100

49 171.6 120.1 223.1

130 126.4 88.5 164.3

51 53.7 43.0 64.4

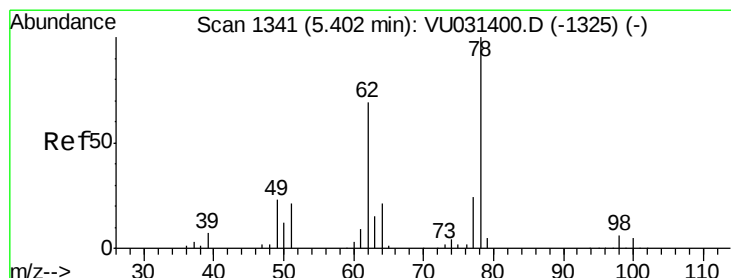
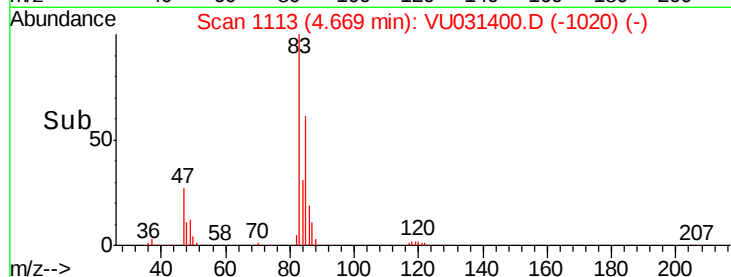
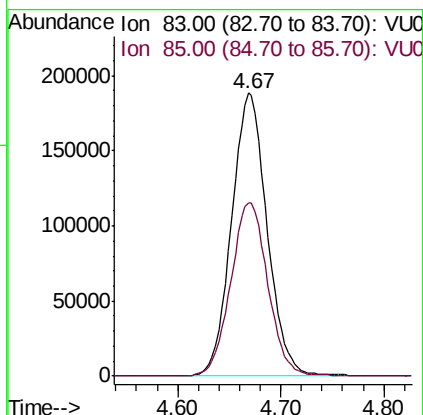
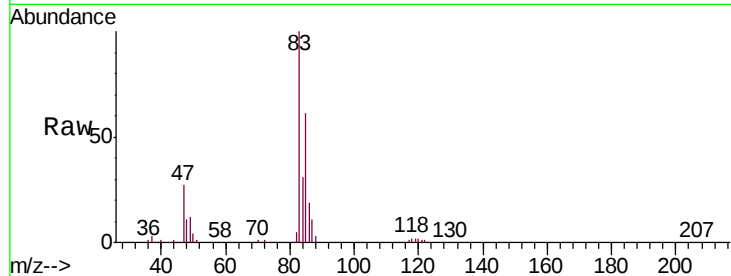




#25
Chloroform
Concen: 44.731 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU031400.D
Acq: 22 Apr 2019 18:14

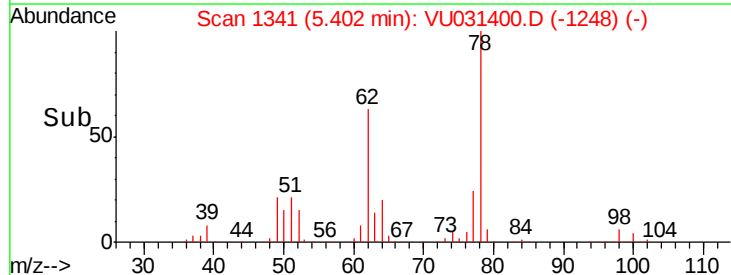
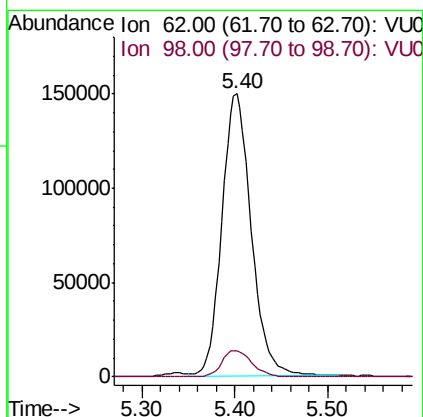
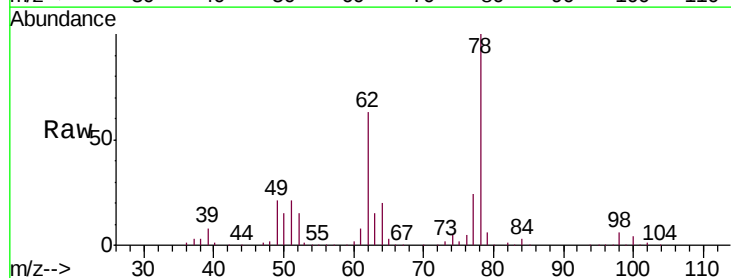
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

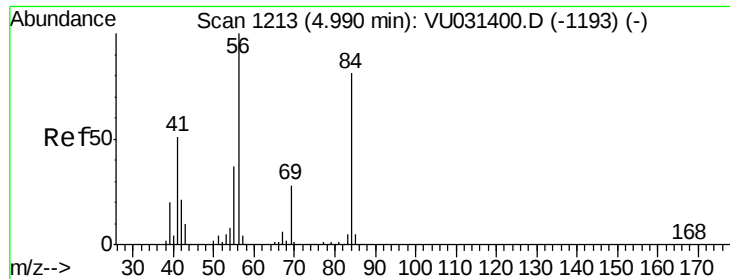
Tgt Ion: 83 Resp: 450760
Ion Ratio Lower Upper
83 100
85 61.4 43.0 79.8



#27
1,2-Dichloroethane
Concen: 43.081 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU031400.D
Acq: 22 Apr 2019 18:14

Tgt Ion: 62 Resp: 329589
Ion Ratio Lower Upper
62 100
98 9.1 7.3 10.9

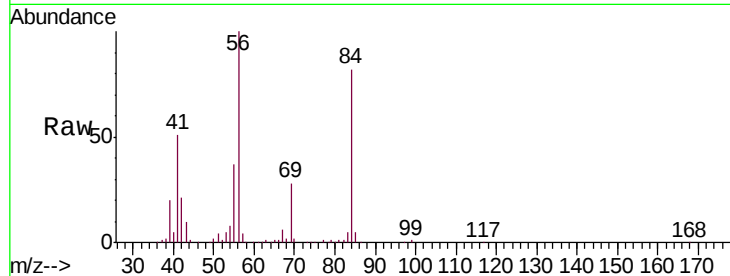




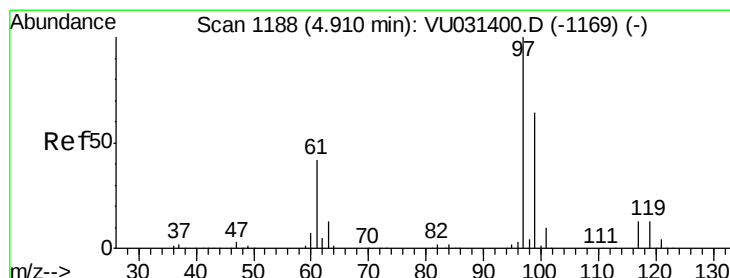
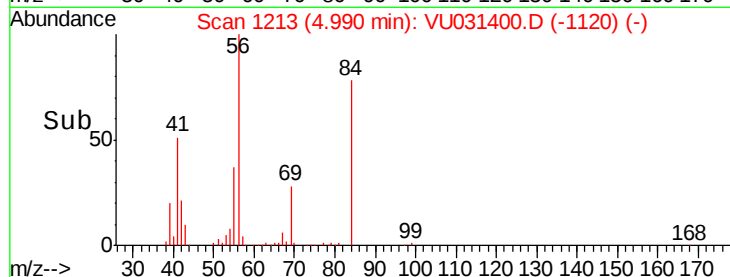
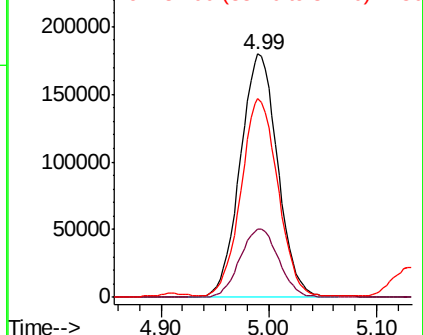
#29
Cyclohexane
Concen: 47.830 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU031400.D
Acq: 22 Apr 2019 18:14

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Tgt Ion: 56 Resp: 432894
Ion Ratio Lower Upper
56 100
69 29.1 23.3 34.9
84 80.8 64.6 96.8

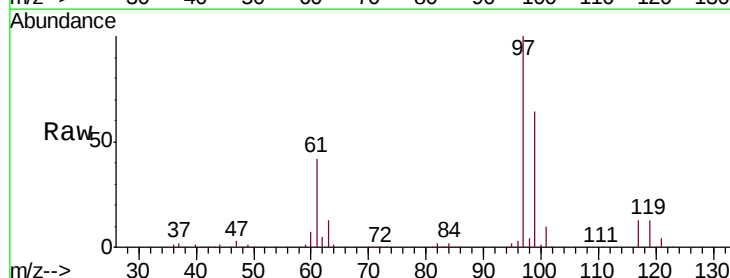


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

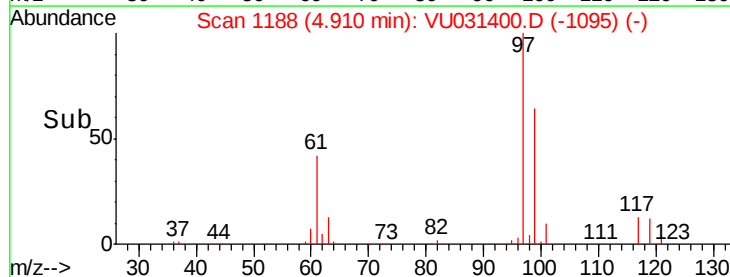
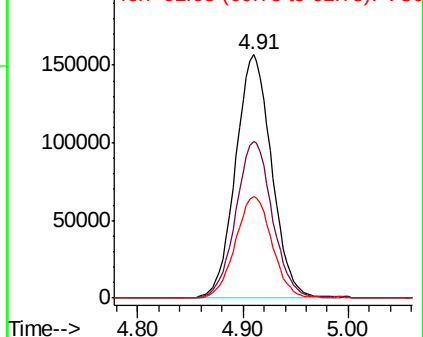


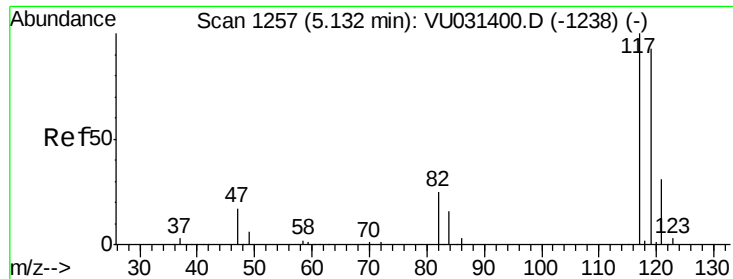
#30
1,1,1-Trichloroethane
Concen: 43.951 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU031400.D
Acq: 22 Apr 2019 18:14

Tgt Ion: 97 Resp: 372785
Ion Ratio Lower Upper
97 100
99 65.0 52.0 78.0
61 42.4 33.9 50.9



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 43.782 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Instrument :

MSVOA_U

ClientSampleId :

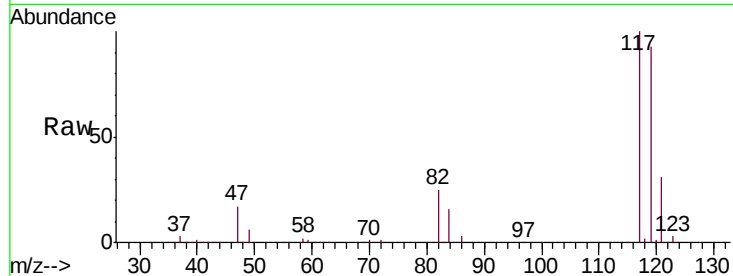
VSTD05050

Tgt Ion:117 Resp: 320919

Ion Ratio Lower Upper

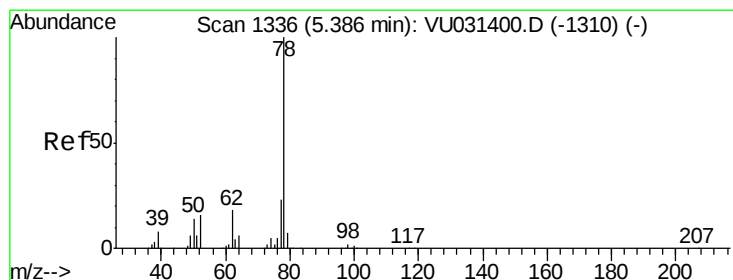
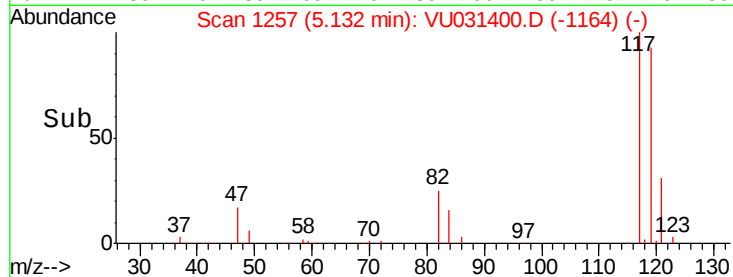
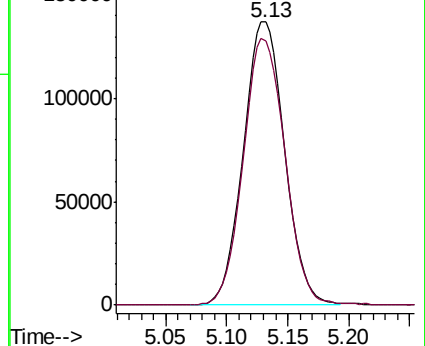
117 100

119 95.3 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 46.098 ug/L

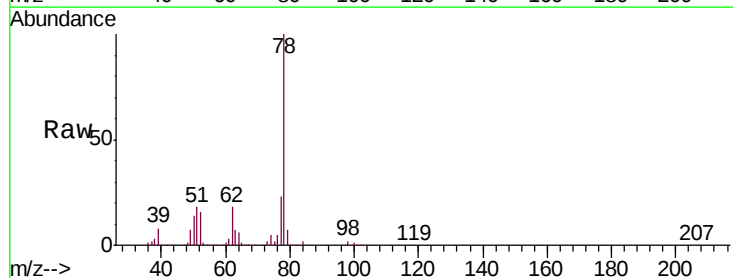
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

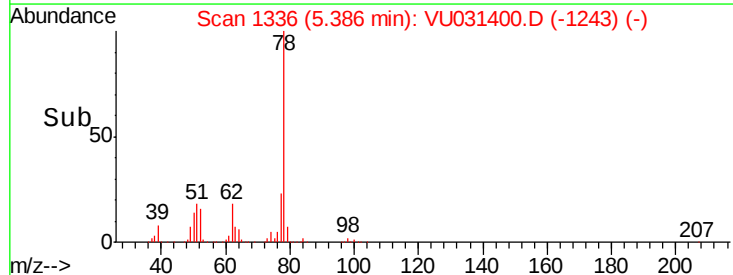
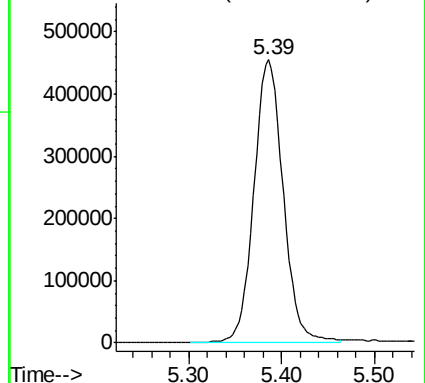
Lab File: VU031400.D

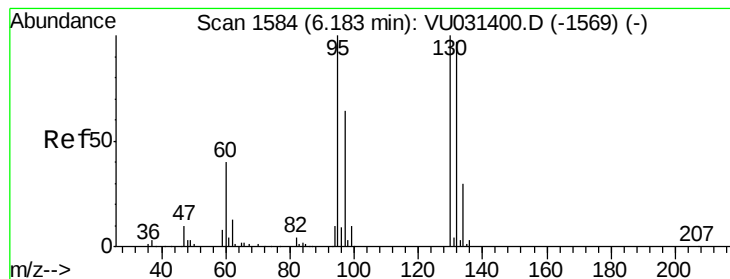
Acq: 22 Apr 2019 18:14

Tgt Ion: 78 Resp: 1001407



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 46.564 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

Tgt Ion: 95 Resp: 255735

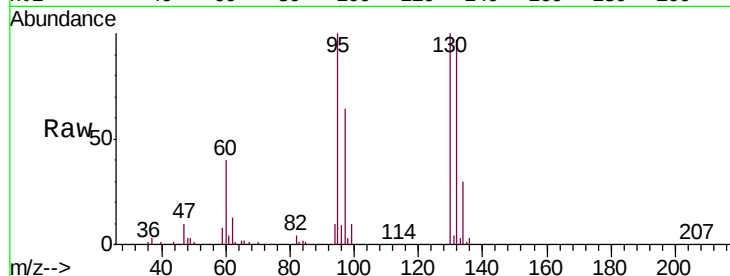
Ion Ratio Lower Upper

95 100

97 64.2 44.9 83.5

132 97.1 68.0 126.2

130 100.1 70.1 130.1

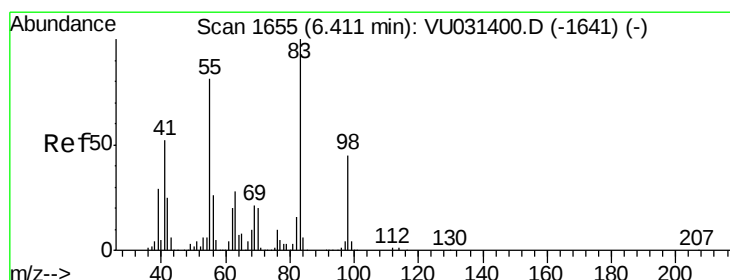
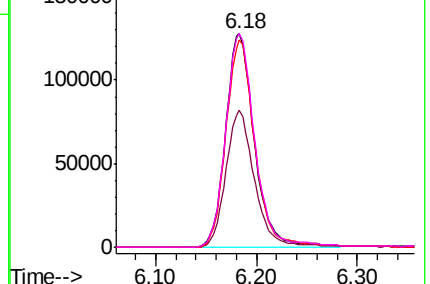
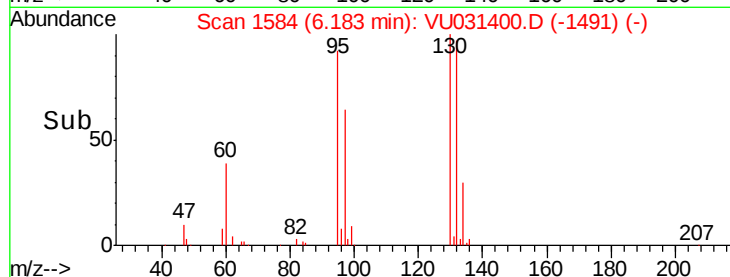


Abundance Ion 95.00 (94.70 to 95.70): VU031400.D (-1569) (-)

Ion 97.00 (96.70 to 97.70): VU031400.D (-1569) (-)

Ion 132.00 (131.70 to 132.70): VU031400.D (-1569) (-)

Ion 130.00 (129.70 to 130.70): VU031400.D (-1569) (-)



#35

Methylcyclohexane

Concen: 46.969 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

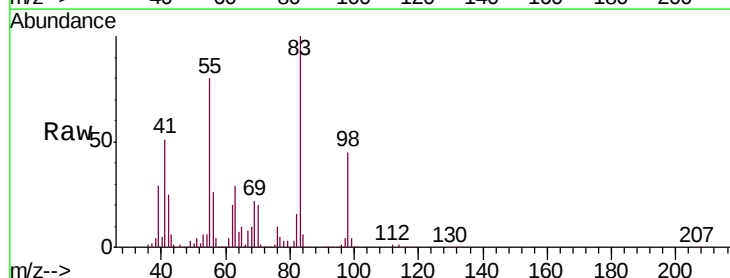
Tgt Ion: 83 Resp: 385006

Ion Ratio Lower Upper

83 100

55 81.7 65.4 98.0

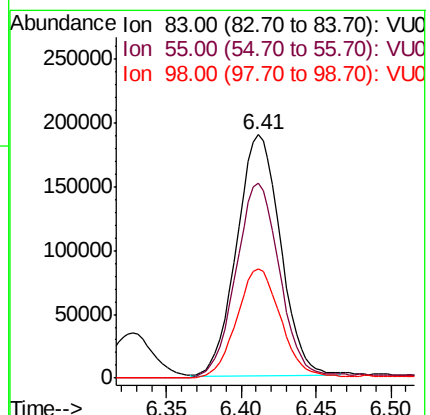
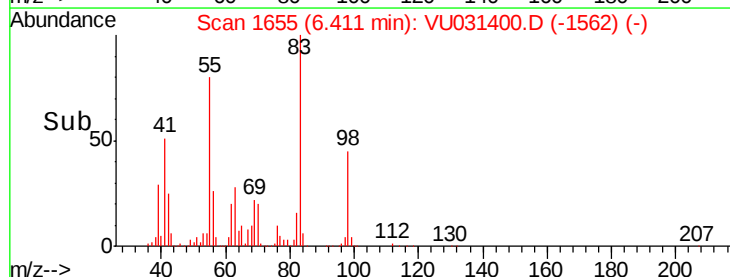
98 46.0 36.8 55.2

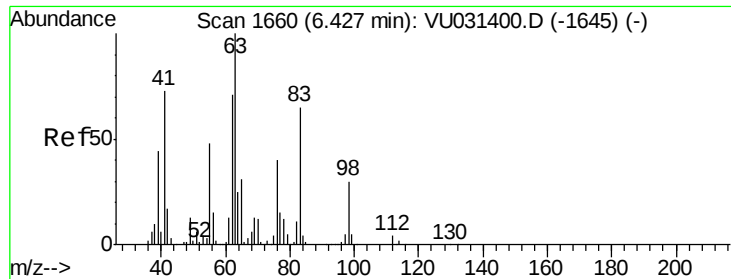


Abundance Ion 83.00 (82.70 to 83.70): VU031400.D (-1641) (-)

Ion 55.00 (54.70 to 55.70): VU031400.D (-1641) (-)

Ion 98.00 (97.70 to 98.70): VU031400.D (-1641) (-)

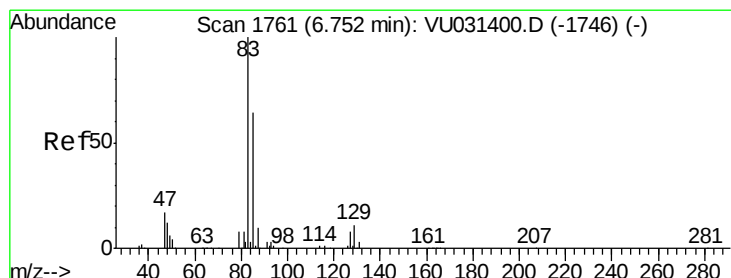
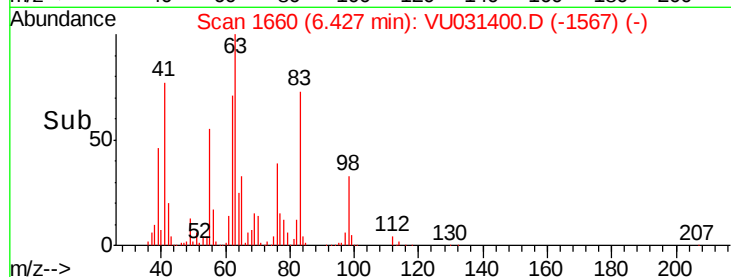
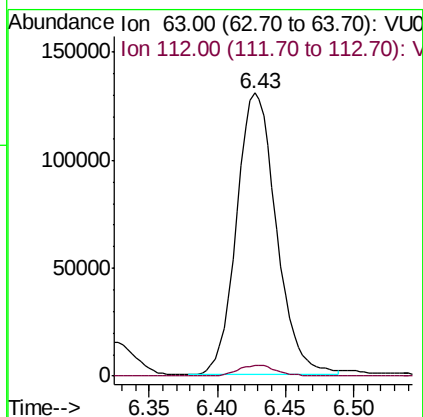
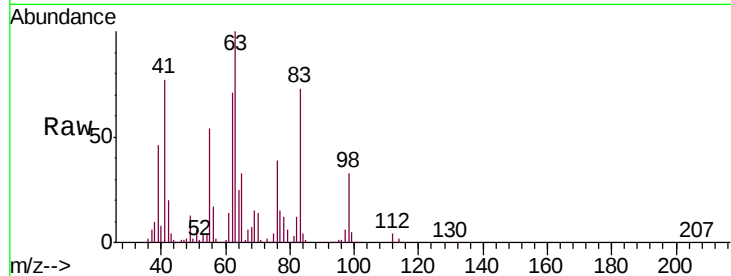




#37
 1,2-Dichloropropane
 Concen: 45.786 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU031400.D
 Acq: 22 Apr 2019 18:14

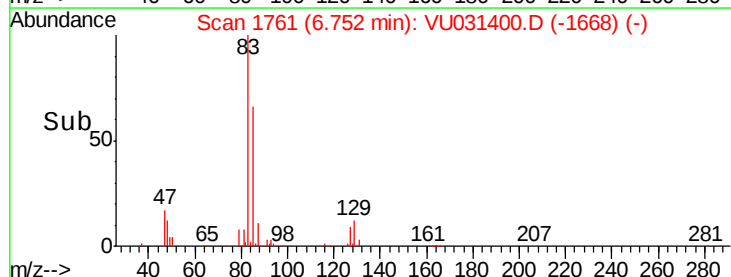
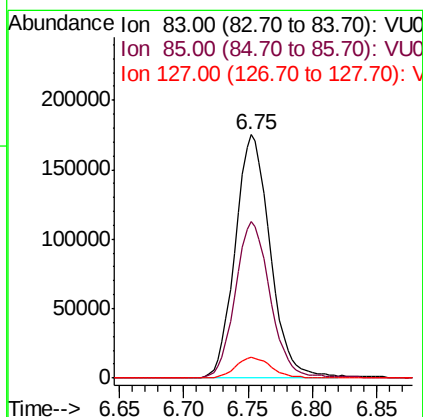
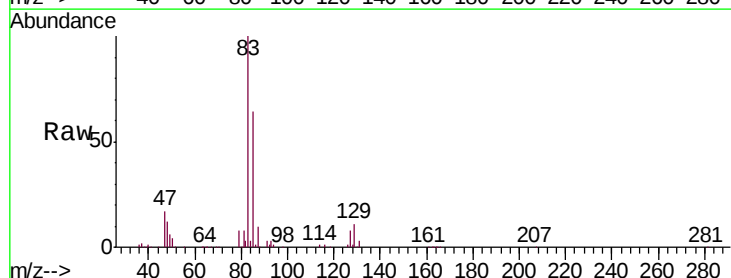
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

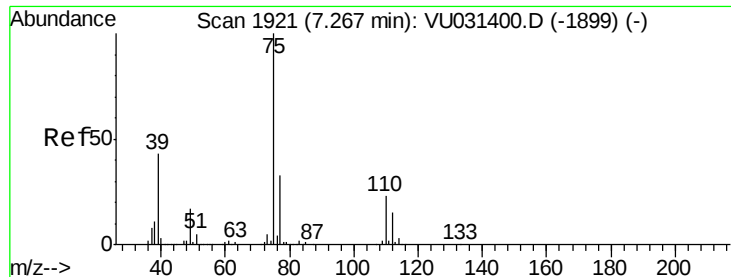
Tgt Ion: 63 Resp: 265399
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.0 4.4



#38
 Bromodichloromethane
 Concen: 45.004 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU031400.D
 Acq: 22 Apr 2019 18:14

Tgt Ion: 83 Resp: 329185
 Ion Ratio Lower Upper
 83 100
 85 64.3 45.0 83.6
 127 8.4 6.7 10.1

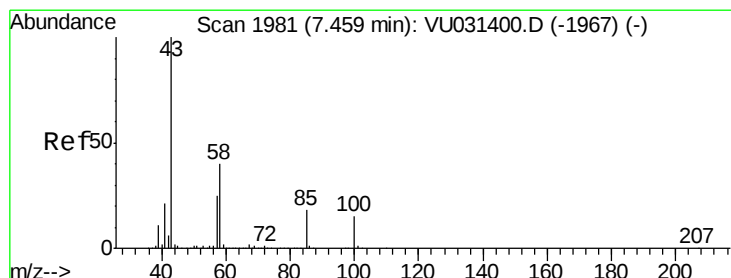
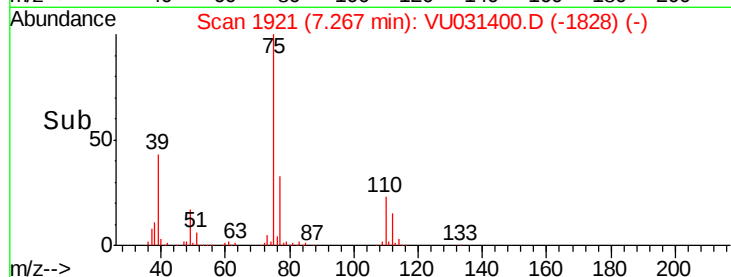
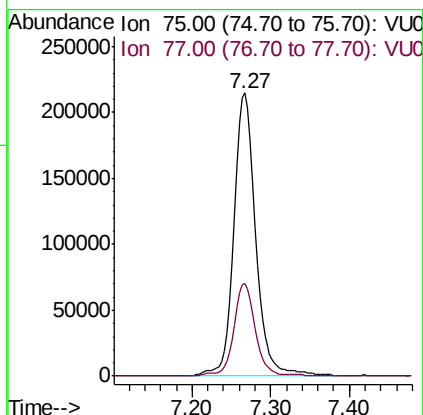
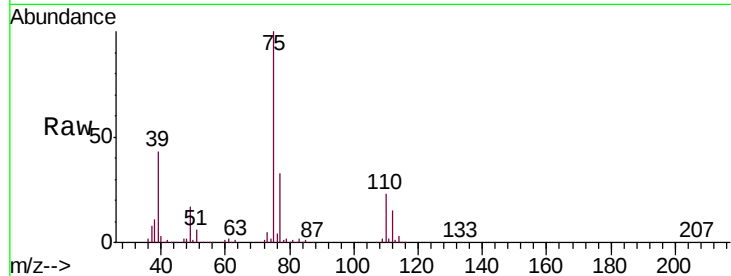




#39
 cis-1,3-Dichloropropene
 Concen: 47.371 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU031400.D
 Acq: 22 Apr 2019 18:14

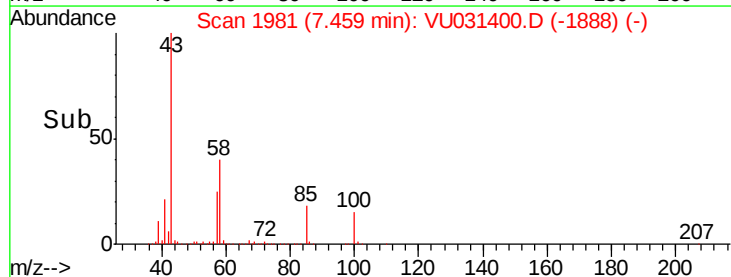
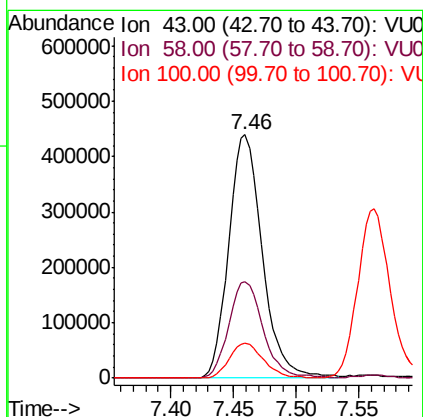
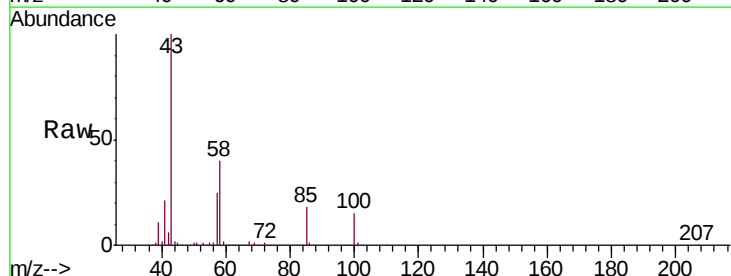
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

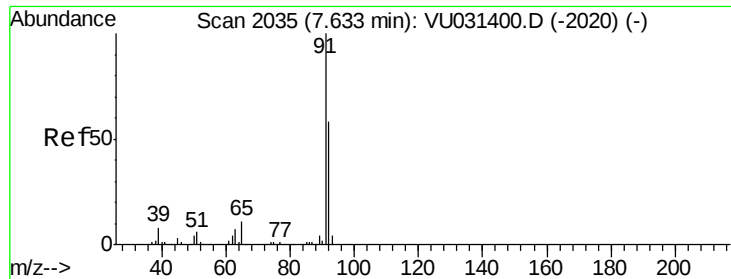
Tgt Ion: 75 Resp: 413877
 Ion Ratio Lower Upper
 75 100
 77 32.9 23.0 42.8



#40
 4-Methyl-2-pentanone
 Concen: 99.574 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VU031400.D
 Acq: 22 Apr 2019 18:14

Tgt Ion: 43 Resp: 820234
 Ion Ratio Lower Upper
 43 100
 58 40.4 32.3 48.5
 100 14.8 11.8 17.8





#42

Toluene

Concen: 48.488 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Instrument :

MSVOA_U

ClientSampleId :

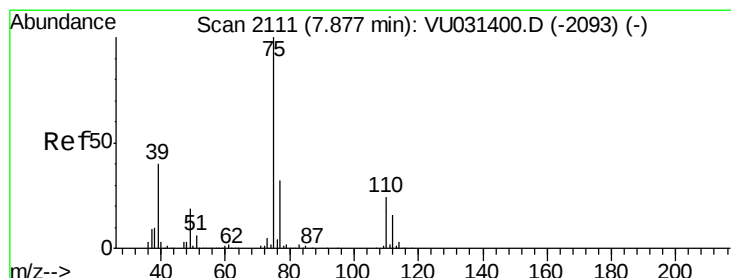
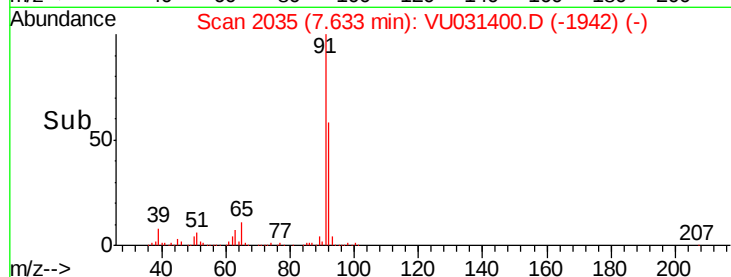
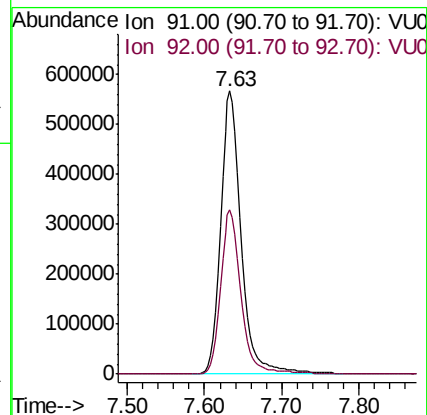
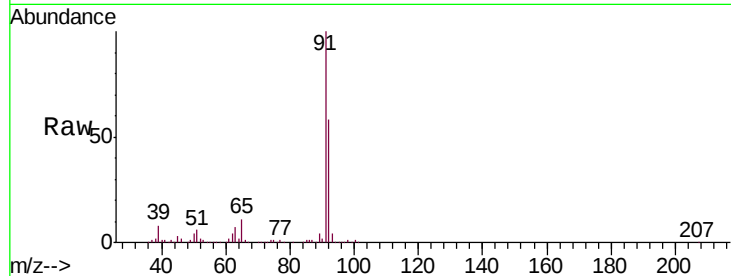
VSTD05050

Tgt Ion: 91 Resp: 1061929

Ion Ratio Lower Upper

91 100

92 58.0 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 46.667 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031400.D

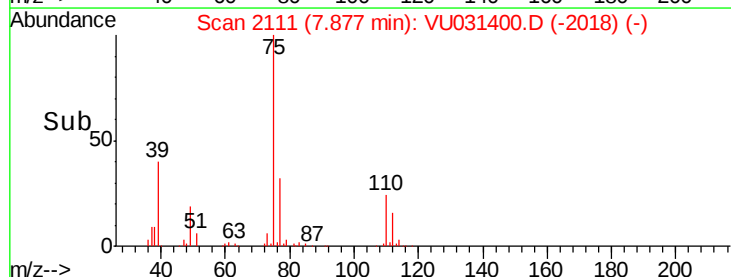
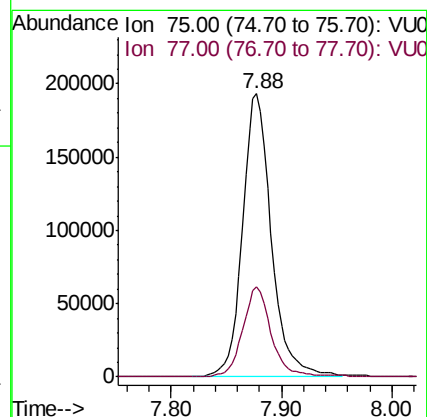
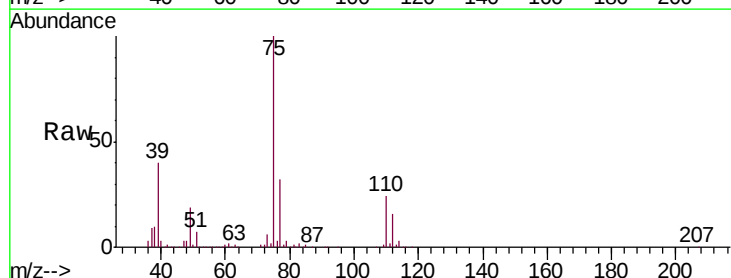
Acq: 22 Apr 2019 18:14

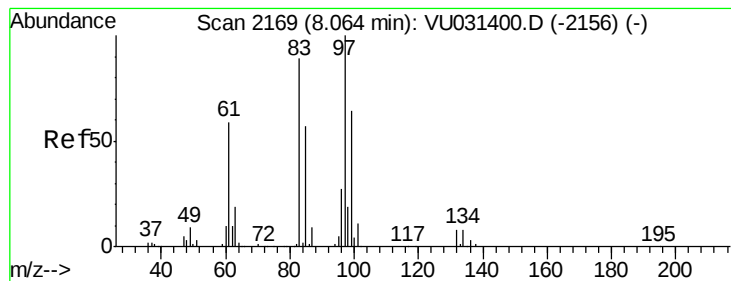
Tgt Ion: 75 Resp: 350269

Ion Ratio Lower Upper

75 100

77 31.8 22.3 41.3





#45

1,1,2-Trichloroethane

Concen: 46.603 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

Tgt Ion: 97 Resp: 242998

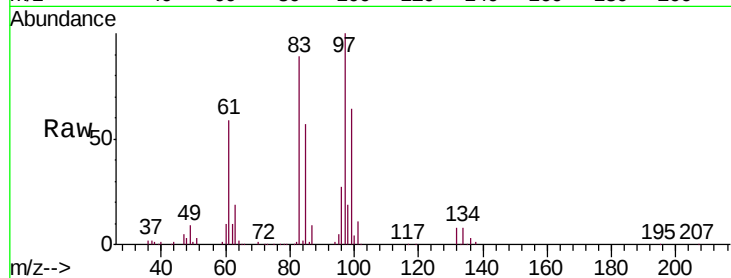
Ion Ratio Lower Upper

97 100

99 64.1 44.9 83.3

83 89.3 62.5 116.1

85 56.6 39.6 73.6

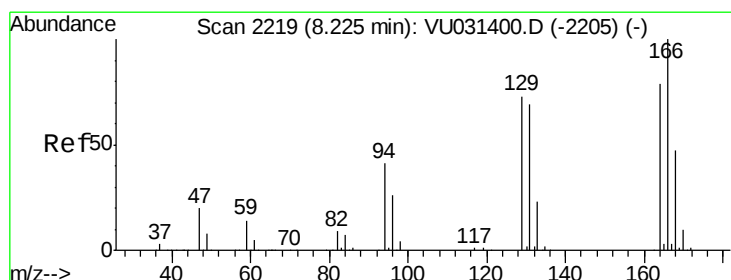
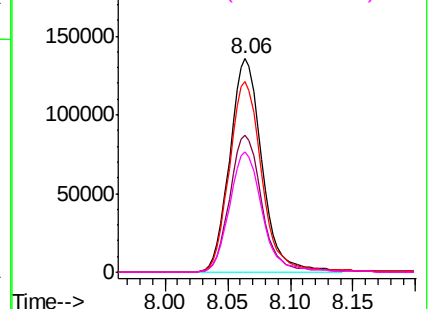
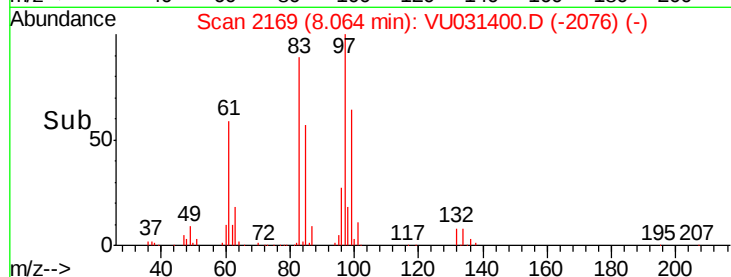


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 46.250 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Tgt Ion: 164 Resp: 190368

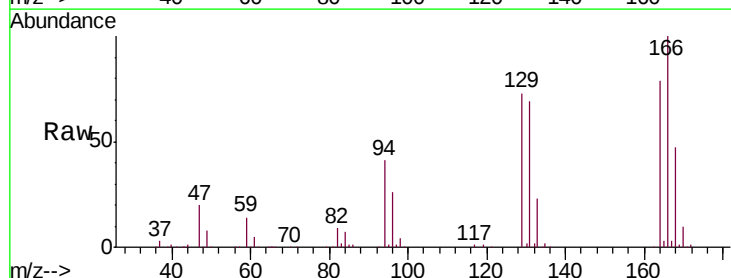
Ion Ratio Lower Upper

164 100

129 93.1 65.2 121.0

131 87.7 61.4 114.0

166 127.4 89.2 165.6

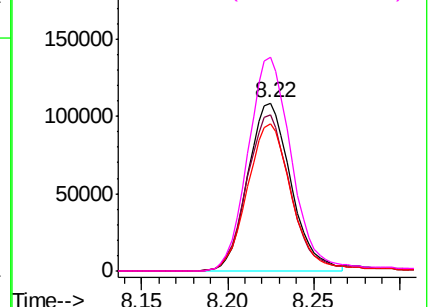
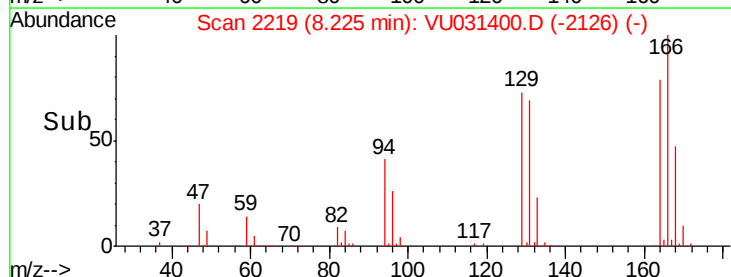


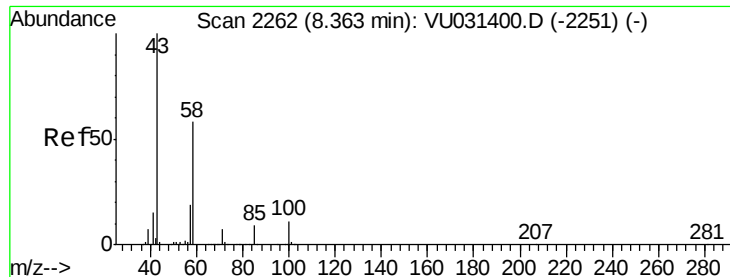
Abundance Ion 164.00 (163.70 to 164.70): V

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

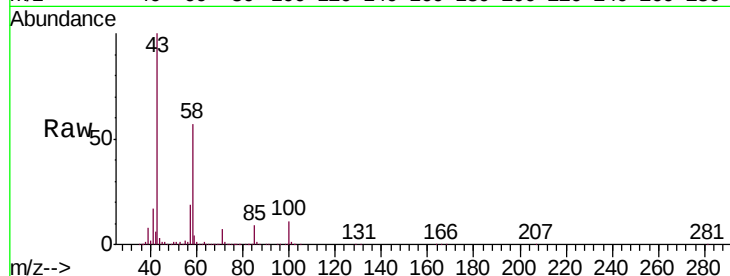




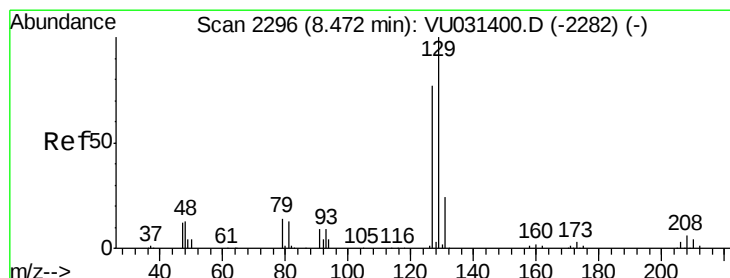
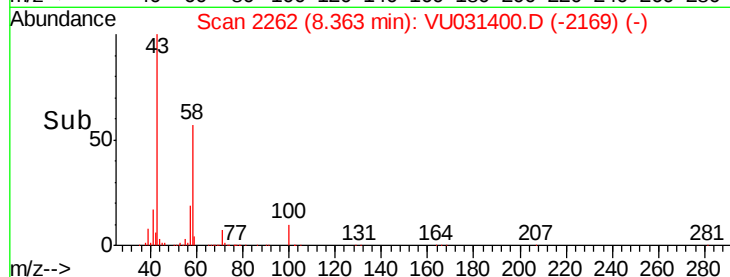
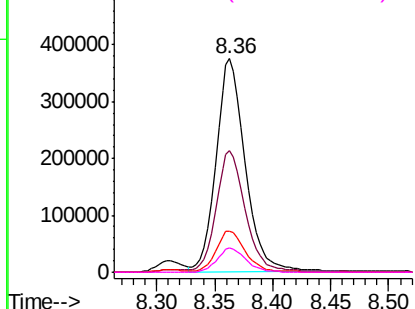
#48
 2-Hexanone
 Concen: 100.261 ug/L
 RT: 8.36 min Scan# 2262
 Delta R.T. 0.00 min
 Lab File: VU031400.D
 Acq: 22 Apr 2019 18:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion: 43 Resp: 655934
 Ion Ratio Lower Upper
 43 100
 58 56.9 45.5 68.3
 57 19.0 15.2 22.8
 100 11.4 9.1 13.7

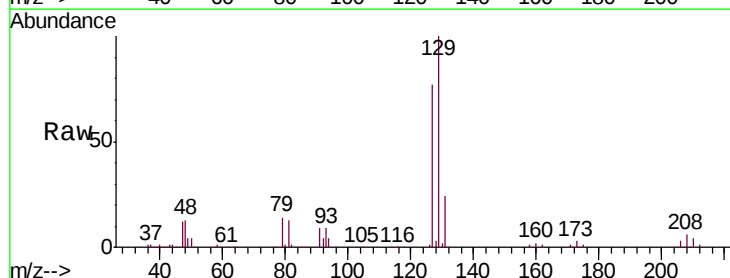


Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 58.00 (57.70 to 58.70): VU0
 Ion 57.00 (56.70 to 57.70): VU0
 Ion 100.00 (99.70 to 100.70): VU0

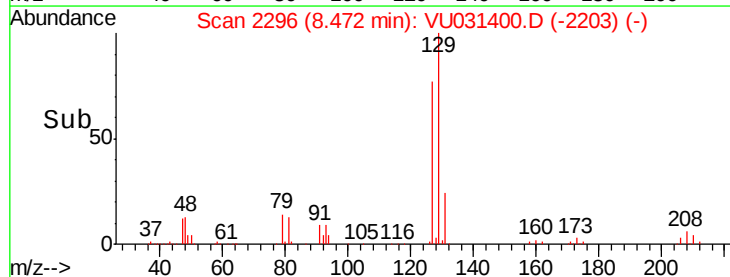
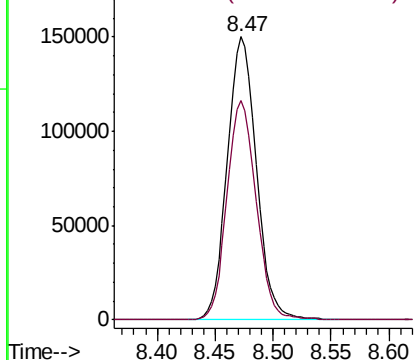


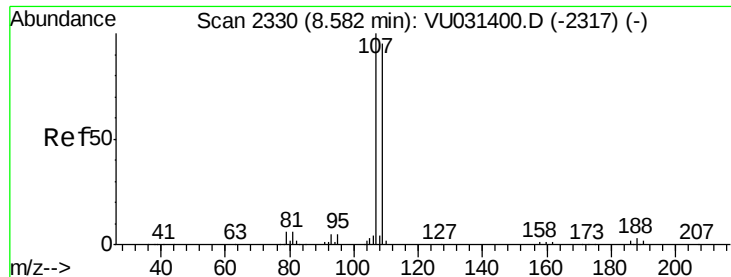
#49
 Dibromochloromethane
 Concen: 46.458 ug/L
 RT: 8.47 min Scan# 2296
 Delta R.T. 0.00 min
 Lab File: VU031400.D
 Acq: 22 Apr 2019 18:14

Tgt Ion: 129 Resp: 261507
 Ion Ratio Lower Upper
 129 100
 127 77.4 54.2 100.6



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#50

1,2-Dibromoethane

Concen: 47.648 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

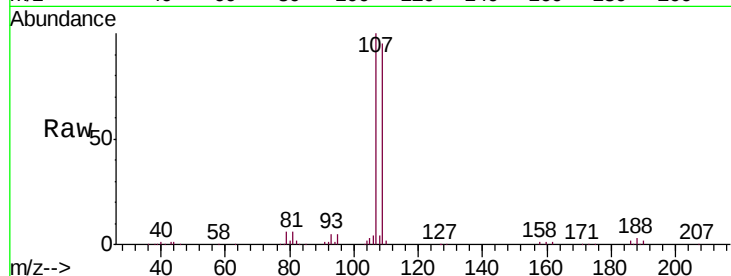
Tgt Ion:107 Resp: 263513

Ion Ratio Lower Upper

107 100

109 95.2 66.6 123.8

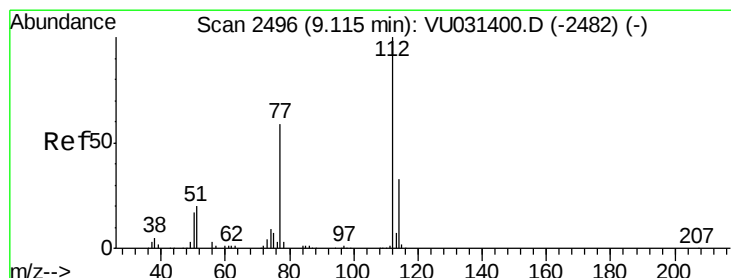
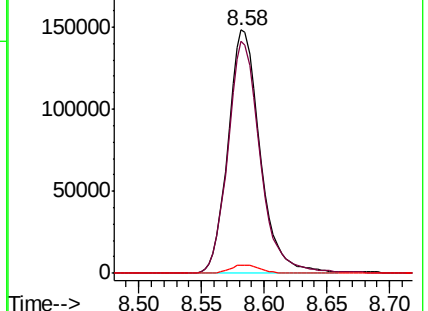
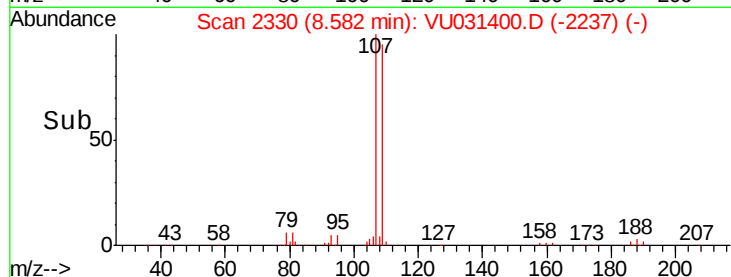
188 3.3 2.6 4.0



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: 47.426 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

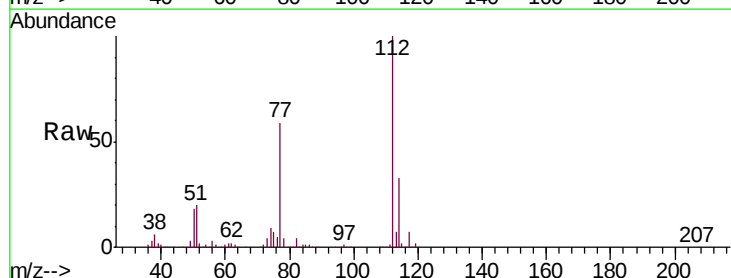
Tgt Ion:112 Resp: 647318

Ion Ratio Lower Upper

112 100

114 32.9 23.0 42.8

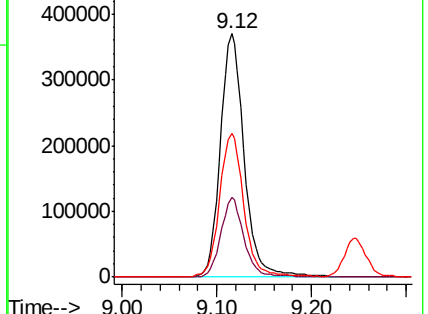
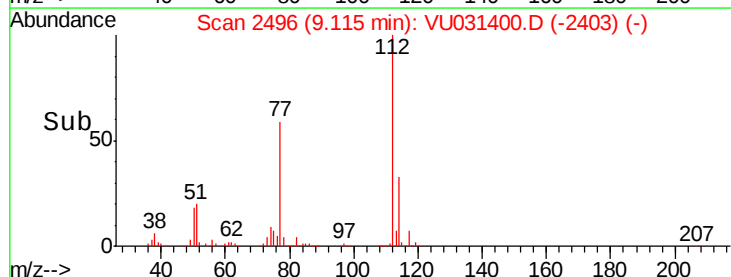
77 58.9 47.1 70.7

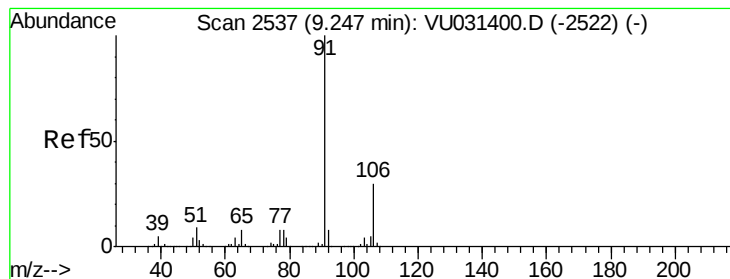


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 47.379 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Instrument :

MSVOA_U

ClientSampleId :

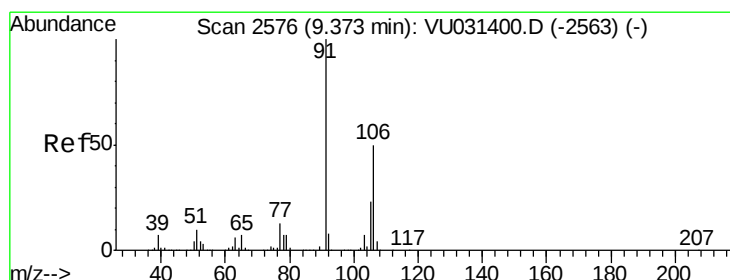
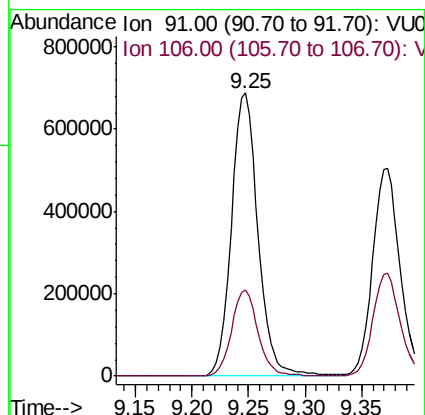
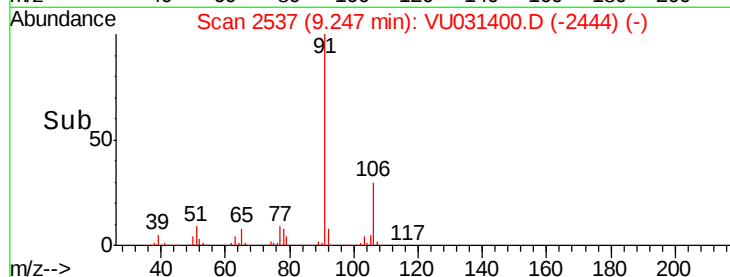
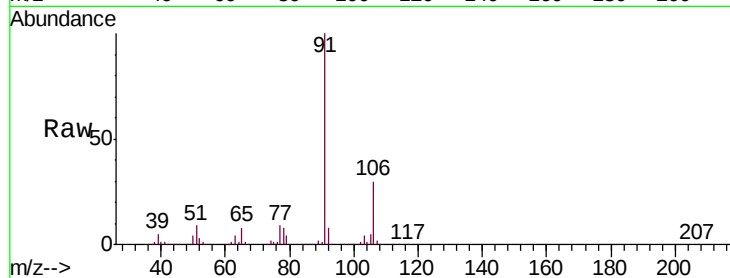
VSTD05050

Tgt Ion: 91 Resp: 1126627

Ion Ratio Lower Upper

91 100

106 30.4 21.3 39.5



#53

m,p-Xylene

Concen: 49.612 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU031400.D

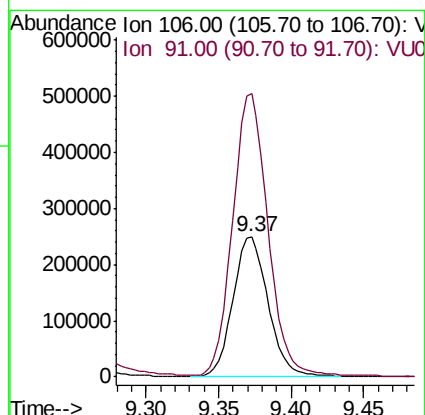
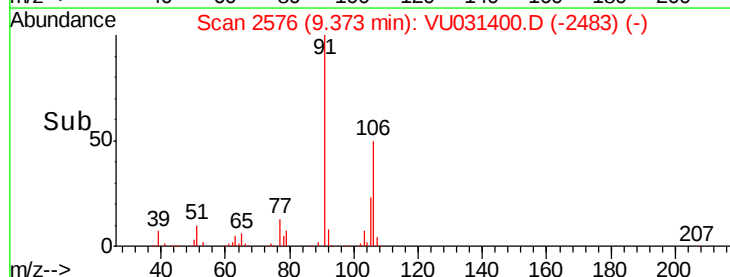
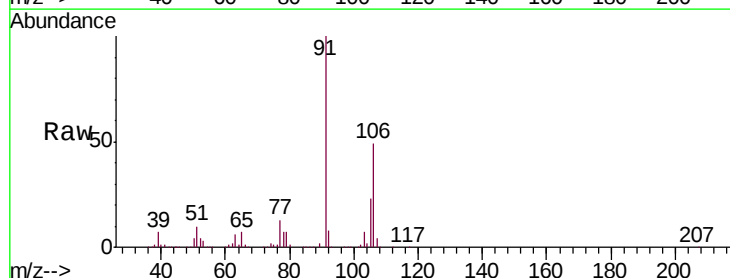
Acq: 22 Apr 2019 18:14

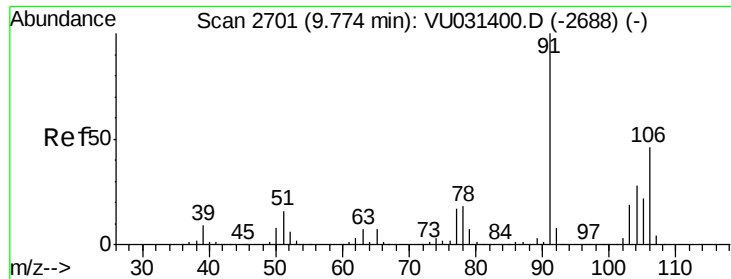
Tgt Ion: 106 Resp: 417929

Ion Ratio Lower Upper

106 100

91 202.1 141.5 262.7





#54

o-xylene

Concen: 49.275 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Instrument :

MSVOA_U

ClientSampleId :

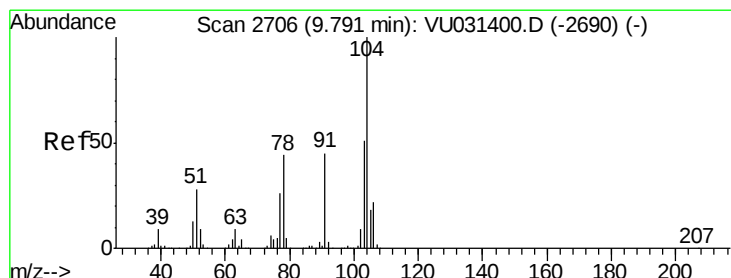
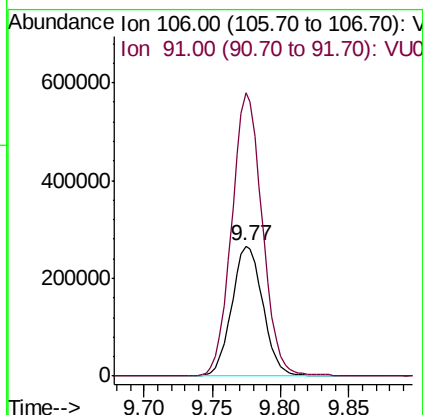
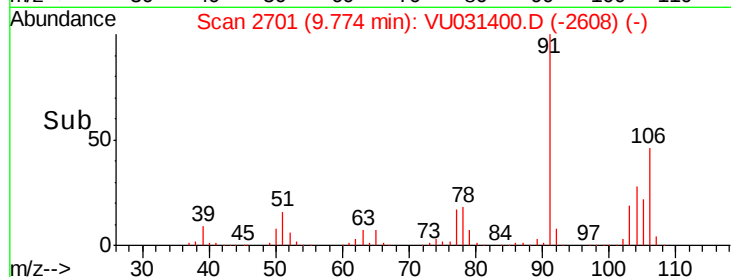
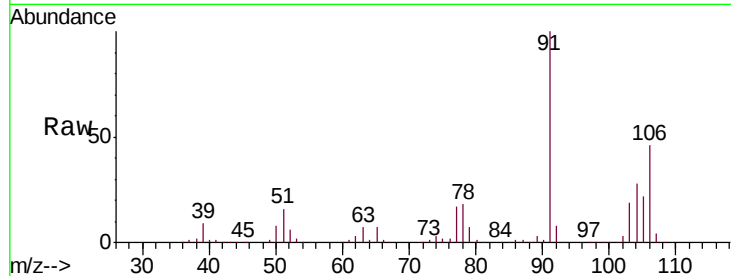
VSTD05050

Tgt Ion:106 Resp: 420921

Ion Ratio Lower Upper

106 100

91 217.7 152.4 283.0



#55

Styrene

Concen: 49.005 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU031400.D

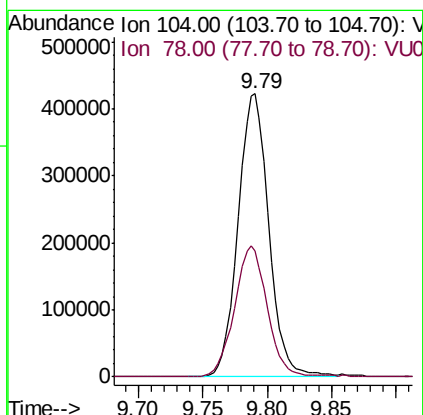
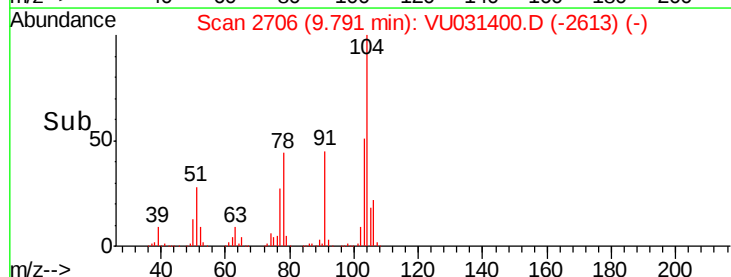
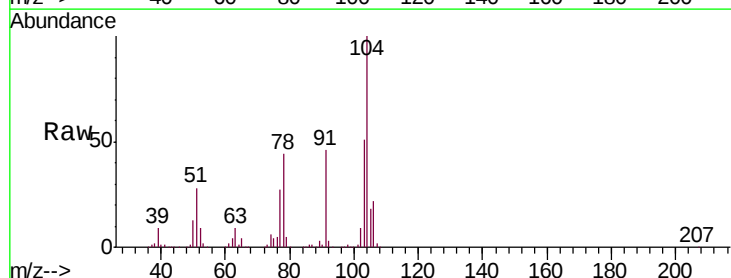
Acq: 22 Apr 2019 18:14

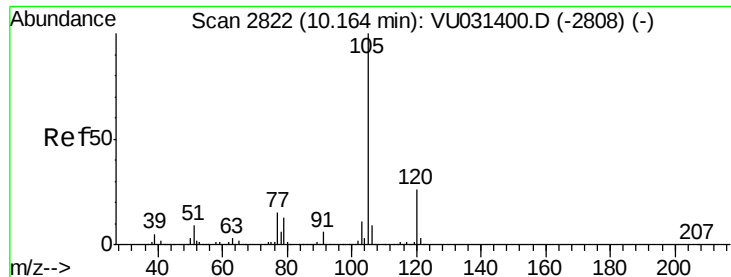
Tgt Ion:104 Resp: 701184

Ion Ratio Lower Upper

104 100

78 44.4 31.1 57.7





#56

Isopropylbenzene

Concen: 49.850 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

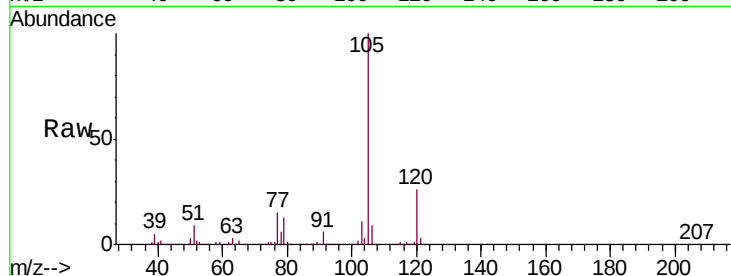
Tgt Ion:105 Resp: 1091133

Ion Ratio Lower Upper

105 100

120 25.9 20.7 31.1

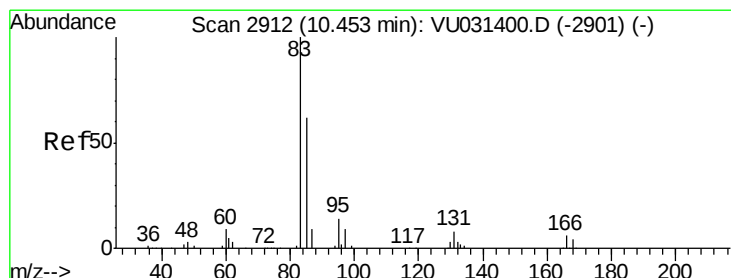
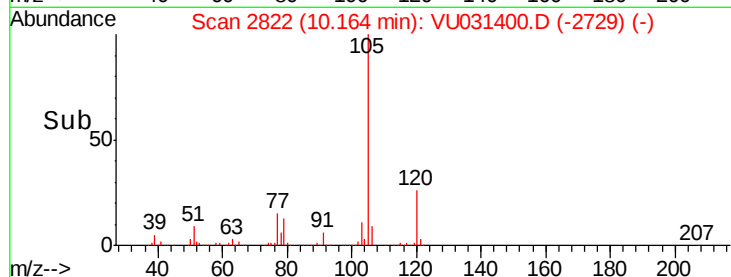
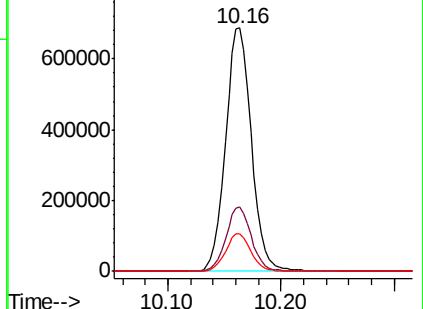
77 15.2 12.2 18.2



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: 46.879 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

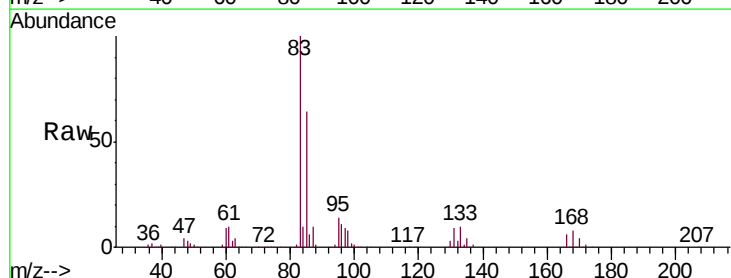
Tgt Ion: 83 Resp: 421813

Ion Ratio Lower Upper

83 100

85 63.6 44.5 82.7

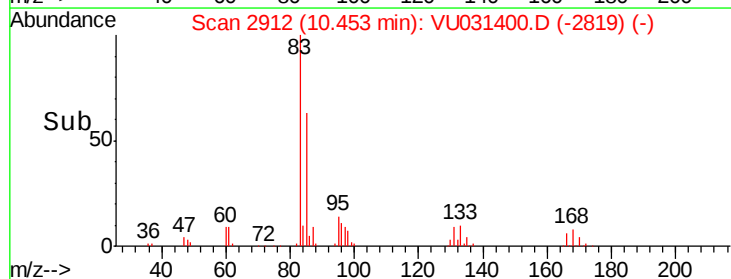
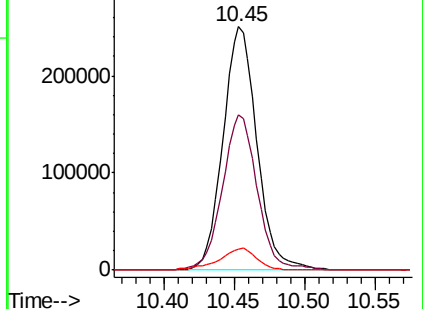
131 8.8 7.0 10.6

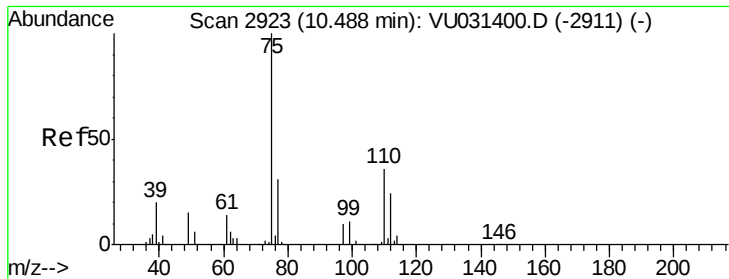


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 47.925 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Instrument :

MSVOA_U

ClientSampleId :

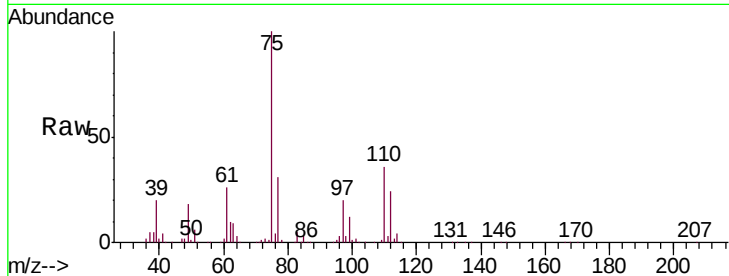
VSTD05050

Tgt Ion: 75 Resp: 332053

Ion Ratio Lower Upper

75 100

77 32.0 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VU031400.D (-2911) (-)

Ion 77.00 (76.70 to 77.70): VU031400.D (-2911) (-)

10.49

200000

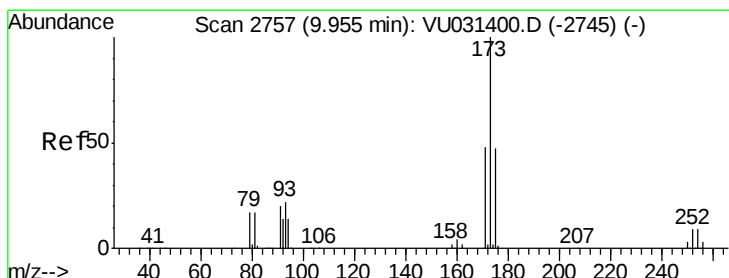
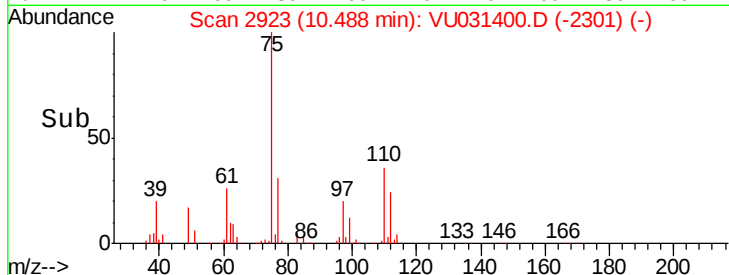
150000

100000

50000

0

Time--> 10.40 10.45 10.50 10.55



#61

Bromoform

Concen: 45.734 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

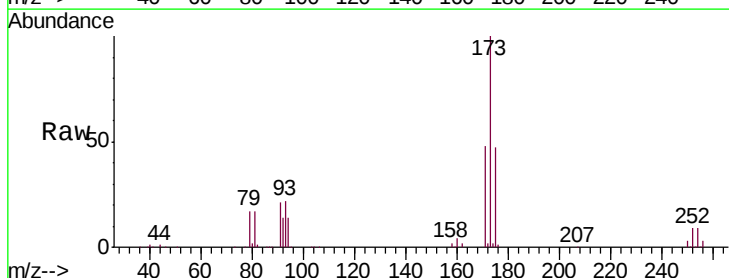
Tgt Ion: 173 Resp: 198478

Ion Ratio Lower Upper

173 100

175 48.2 38.6 57.8

254 9.6 7.7 11.5



Abundance Ion 173.00 (172.70 to 173.70): VU031400.D (-2745) (-)

Ion 175.00 (174.70 to 175.70): VU031400.D (-2745) (-)

Ion 254.00 (253.70 to 254.70): VU031400.D (-2745) (-)

9.95

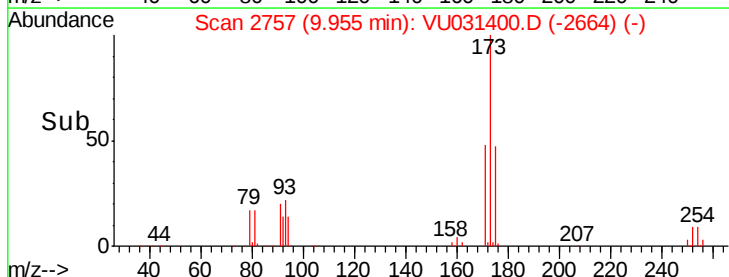
150000

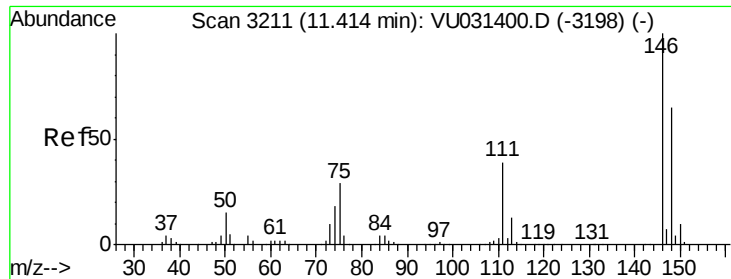
100000

50000

0

Time--> 9.90 10.00 10.10





#62

1,3-Dichlorobenzene

Concen: 45.887 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

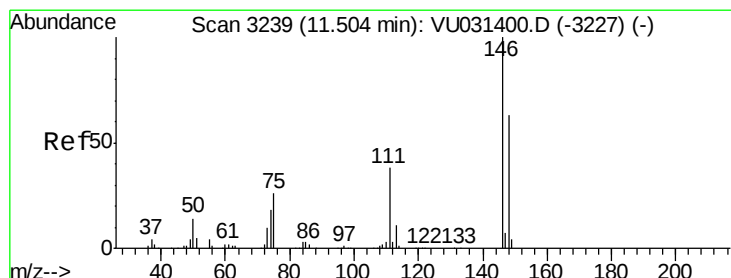
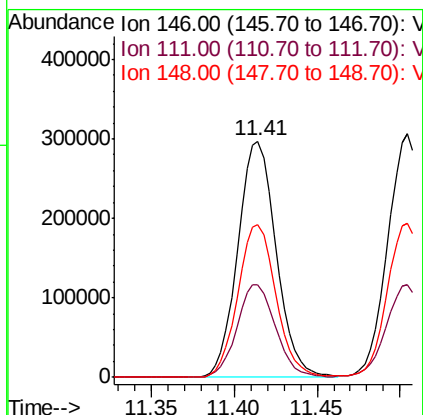
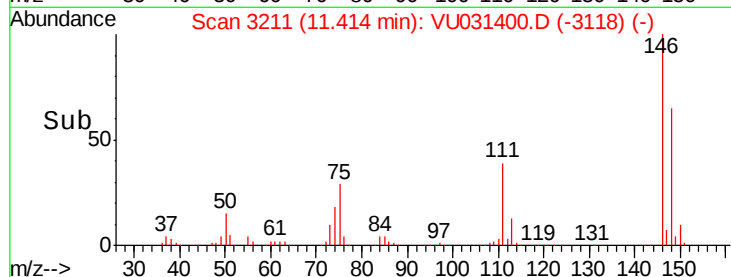
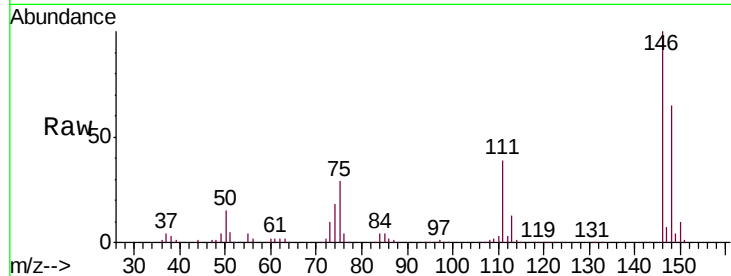
Tgt Ion:146 Resp: 478998

Ion Ratio Lower Upper

146 100

111 39.1 27.4 50.8

148 64.9 45.4 84.4



#63

1,4-Dichlorobenzene

Concen: 46.268 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

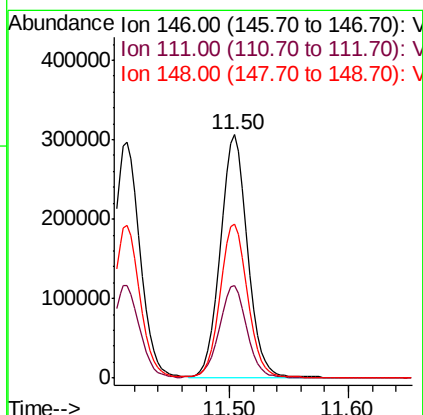
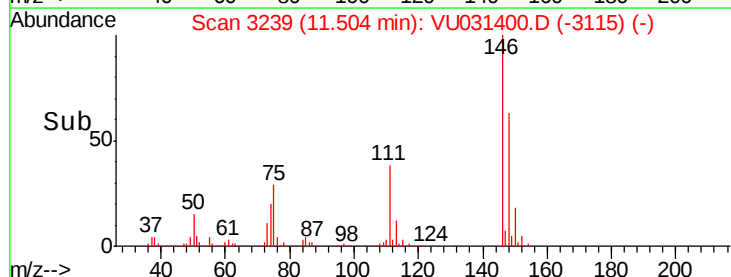
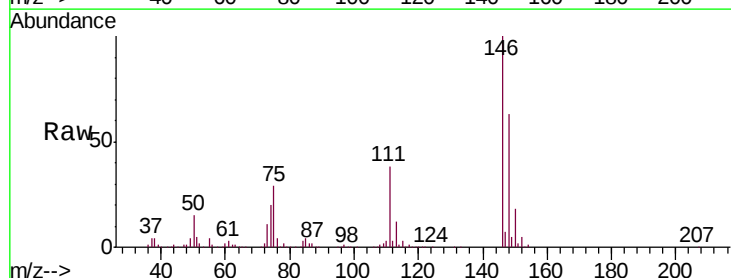
Tgt Ion:146 Resp: 482614

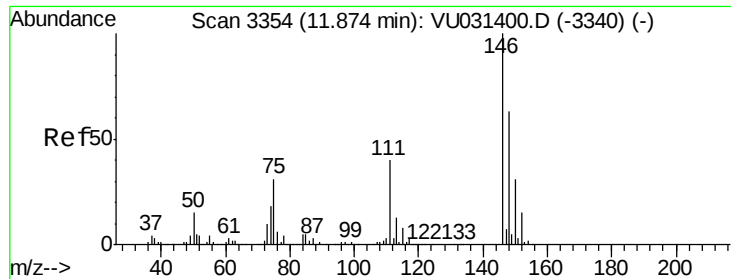
Ion Ratio Lower Upper

146 100

111 38.0 26.6 49.4

148 63.5 44.4 82.5

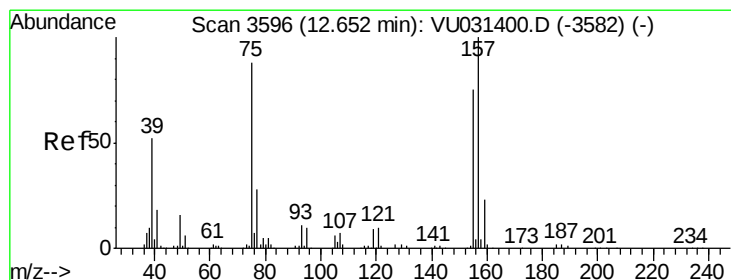
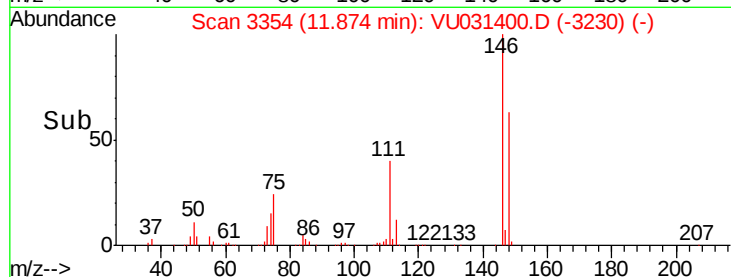
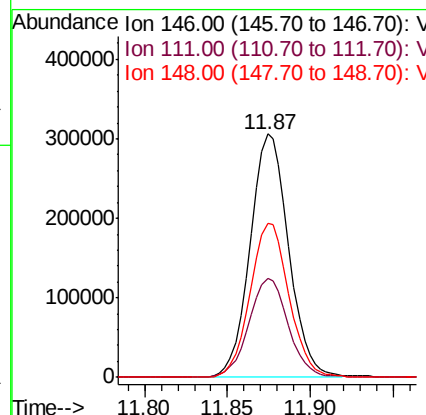
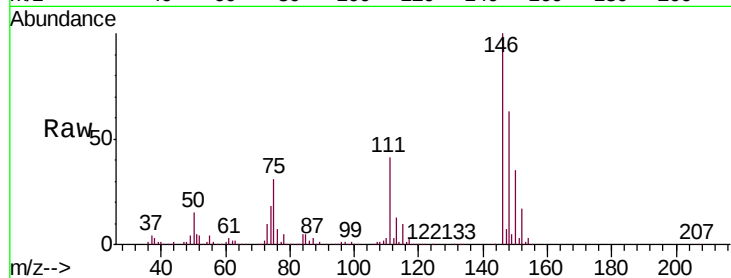




#65
 1,2-Dichlorobenzene
 Concen: 44.961 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031400.D
 Acq: 22 Apr 2019 18:14

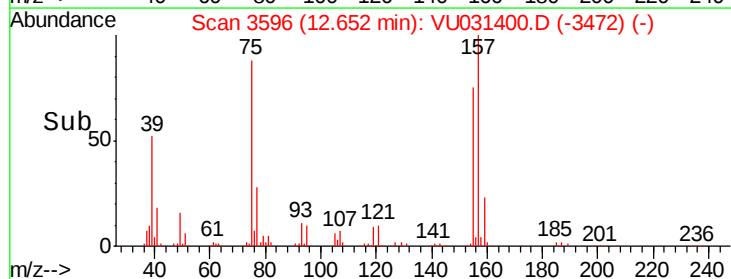
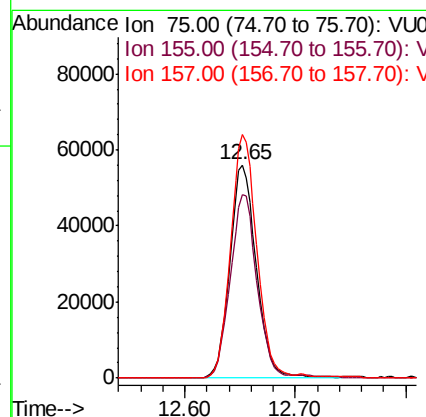
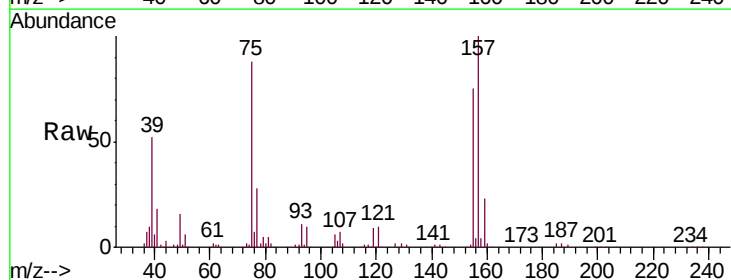
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

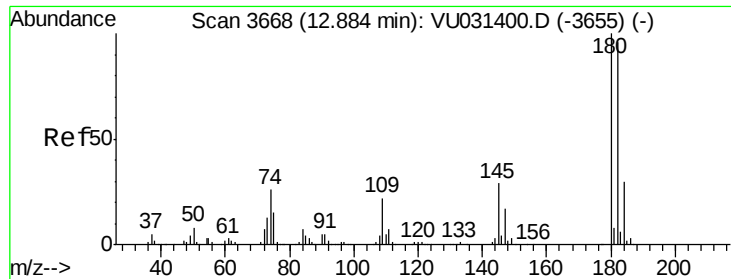
Tgt Ion: 146 Resp: 492136
 Ion Ratio Lower Upper
 146 100
 111 40.5 32.4 48.6
 148 63.4 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 44.812 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031400.D
 Acq: 22 Apr 2019 18:14

Tgt Ion: 75 Resp: 93876
 Ion Ratio Lower Upper
 75 100
 155 86.0 68.8 103.2
 157 114.3 91.4 137.2

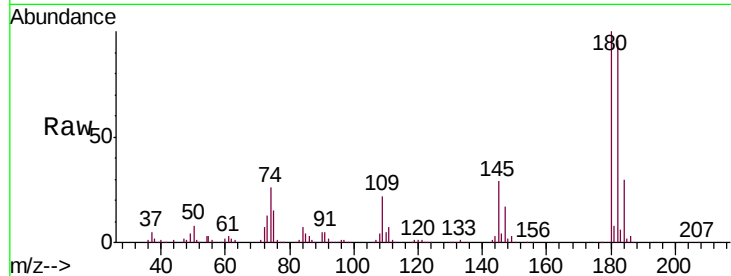




#67
 1,3,5-Trichlorobenzene
 Concen: 46.690 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031400.D
 Acq: 22 Apr 2019 18:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.5	114.7
184	29.6	23.7	35.5
145	28.6	22.9	34.3



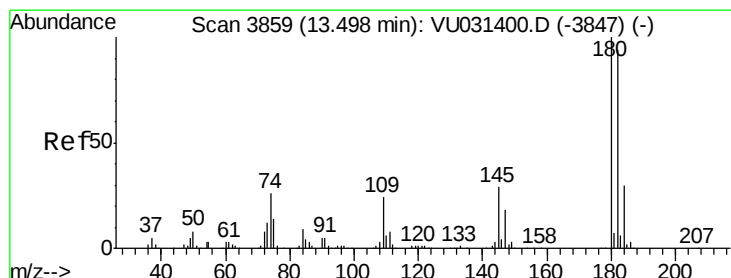
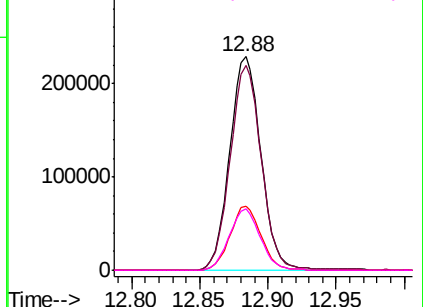
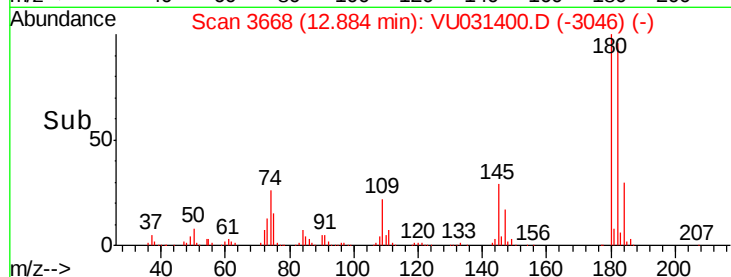
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

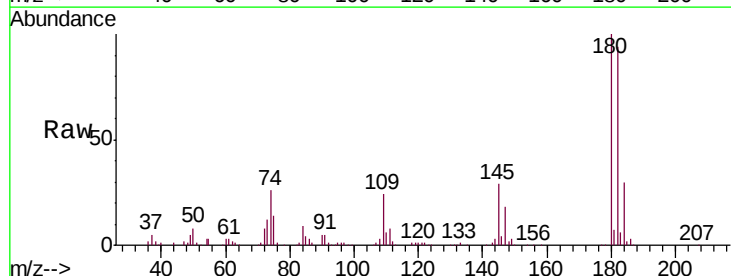
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 47.937 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU031400.D
 Acq: 22 Apr 2019 18:14

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.9	77.5	116.3
145	29.1	23.3	34.9

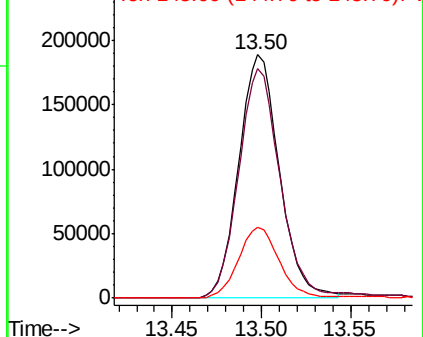
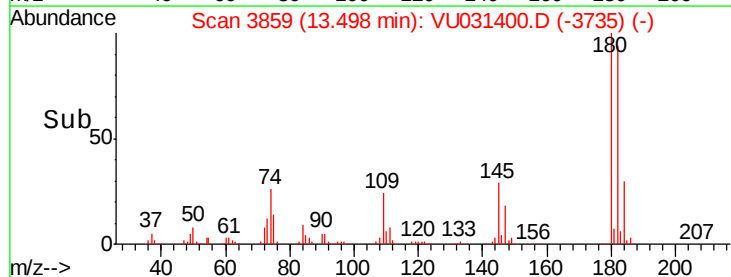


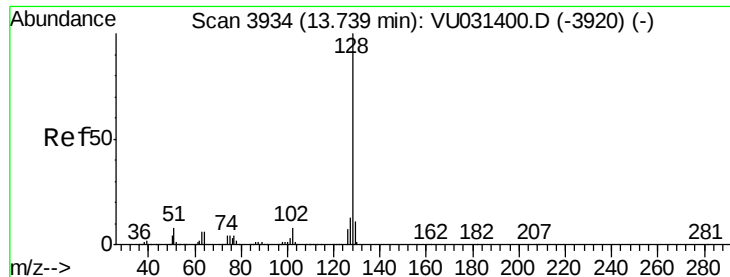
Abundance

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: 52.693 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

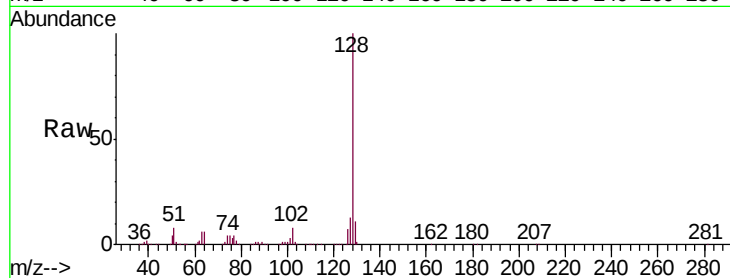
Tgt Ion:128 Resp: 1052933

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

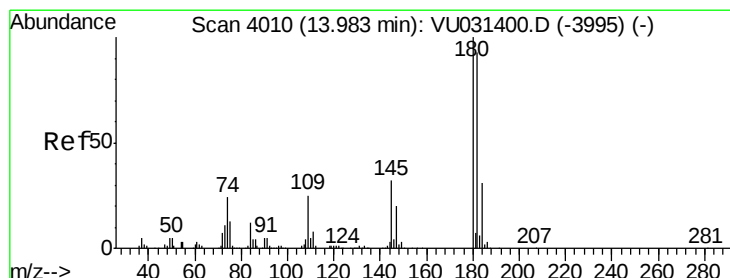
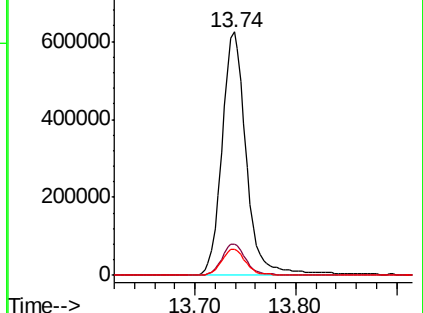
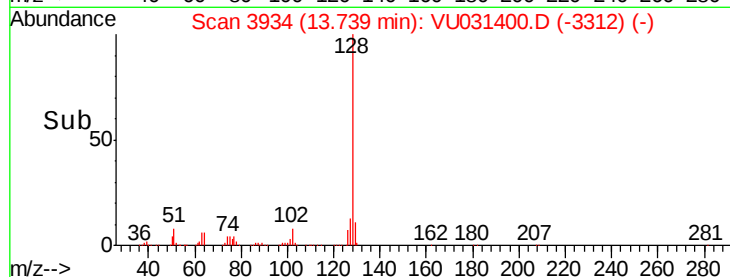
129 10.8 8.6 13.0



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: 47.465 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031400.D

Acq: 22 Apr 2019 18:14

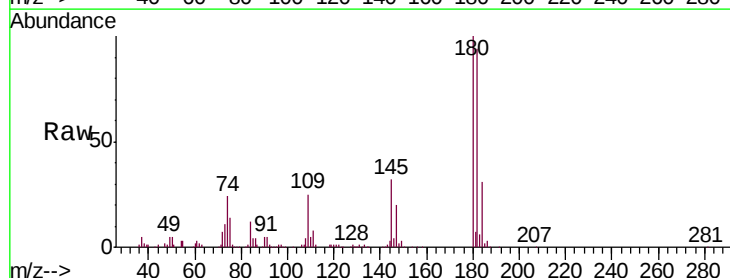
Tgt Ion:180 Resp: 325034

Ion Ratio Lower Upper

180 100

182 94.8 75.8 113.8

145 31.5 25.2 37.8



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

