

Data File : VU030057.D
Acq On : 14 Mar 2019 01:54
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

Quant Time: Mar 14 03:56:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031319WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 14 03:50:43 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	505164	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	498223	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	259300	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	154228	46.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.32%
7) Chloroethane-d5	1.68	69	132311	49.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.10%
11) 1,1-Dichloroethene-d2	2.27	63	295280	48.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.92%
21) 2-Butanone-d5	4.17	46	280125	111.89	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	111.89%
24) Chloroform-d	4.65	84	315551	52.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.30%
26) 1,2-Dichloroethane-d4	5.31	65	181423	52.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.78%
32) Benzene-d6	5.34	84	672487	52.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.88%
36) 1,2-Dichloropropane-d6	6.33	67	206993	52.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.48%
41) Toluene-d8	7.56	98	636217	52.98	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.96%
43) trans-1,3-Dichloropropene-	7.85	79	97698	51.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.76%
47) 2-Hexanone-d5	8.31	63	247182	112.55	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	112.55%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	320738	53.18	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	106.36%
64) 1,2-Dichlorobenzene-d4	11.85	152	259173	51.60	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	163105	51.099	ug/L	99
3) Chloromethane	1.33	50	192952	54.793	ug/L	99
5) Vinyl chloride	1.40	62	201854	52.291	ug/L	99
6) Bromomethane	1.62	94	131468	54.977	ug/L	100
8) Chloroethane	1.70	64	126145	49.858	ug/L	98
9) Trichlorofluoromethane	1.88	101	265251	51.236	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	164841	49.669	ug/L	100
12) 1,1-Dichloroethene	2.28	96	166152	52.476	ug/L	90
13) Acetone	2.32	43	182164	62.233	ug/L	99
14) Carbon disulfide	2.48	76	483353	49.254	ug/L	99
15) Methyl Acetate	2.61	43	204561	54.092	ug/L	99
16) Methylene chloride	2.70	84	196182	52.473	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	176781	51.269	ug/L	97
18) Methyl tert-butyl Ether	3.00	73	544364	53.231	ug/L	100
19) 1,1-Dichloroethane	3.44	63	316948	53.537	ug/L	99
20) cis-1,2-Dichloroethene	4.23	96	207019	52.739	ug/L	97
22) 2-Butanone	4.26	43	295206	88.587	ug/L	100

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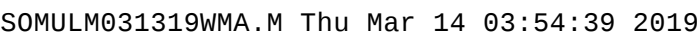
Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

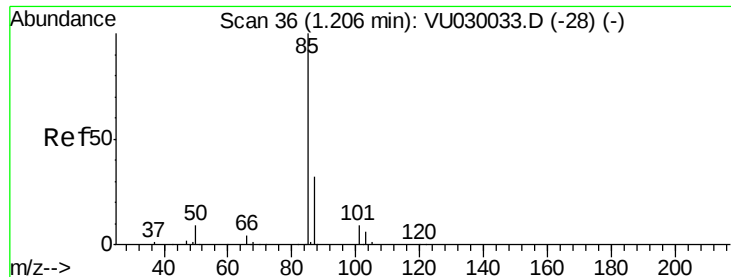
Quant Time: Mar 14 03:56:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031319WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 14 03:50:43 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	105517	51.893	ug/L	99
25) Chloroform	4.67	83	327166	52.653	ug/L	100
27) 1,2-Dichloroethane	5.40	62	233392	52.245	ug/L	98
29) Cyclohexane	4.99	56	279438	50.852	ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	277784	51.072	ug/L	100
31) Carbon tetrachloride	5.13	117	239067	49.776	ug/L	100
33) Benzene	5.39	78	740891	51.967	ug/L	100
34) Trichloroethene	6.18	95	188828	50.535	ug/L	99
35) Methylcyclohexane	6.41	83	304611	50.273	ug/L	98
37) 1,2-Dichloropropane	6.43	63	196200	52.319	ug/L	100
38) Bromodichloromethane	6.75	83	240584	51.591	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	293629	50.315	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	538370	106.324	ug/L	100
42) Toluene	7.63	91	810333	52.277	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	265271	49.784	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	197483	52.657	ug/L	99
46) Tetrachloroethene	8.22	164	164302	50.246	ug/L	99
48) 2-Hexanone	8.36	43	428965	99.303	ug/L	98
49) Dibromochloromethane	8.47	129	214762	51.254	ug/L	99
50) 1,2-Dibromoethane	8.58	107	211702	51.212	ug/L	98
51) Chlorobenzene	9.12	112	528855	50.606	ug/L	99
52) Ethylbenzene	9.25	91	880111	51.576	ug/L	100
53) m,p-Xylene	9.37	106	342149	51.824	ug/L	98
54) o-xylene	9.77	106	340908	52.571	ug/L	99
55) Styrene	9.79	104	580327	52.557	ug/L	99
56) Isopropylbenzene	10.16	105	873501	51.452	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	336378	52.258	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	256281	52.474	ug/L	100
61) Bromoform	9.95	173	166089	51.459	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	418877	50.021	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	421577	49.510	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	431494	51.191	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	72088	52.629	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	324104	49.865	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	290930	48.934	ug/L	99
69) Naphthalene	13.74	128	982646	50.870	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	308235	49.906	ug/L	98

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

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#2

Dichlorodifluoromethane

Concen: 51.099 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

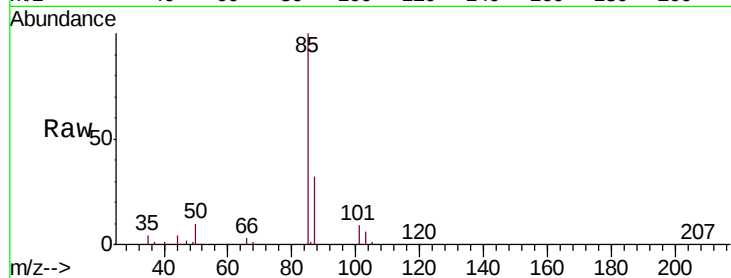
VSTD05034

Tgt Ion: 85 Resp: 163105

Ion Ratio Lower Upper

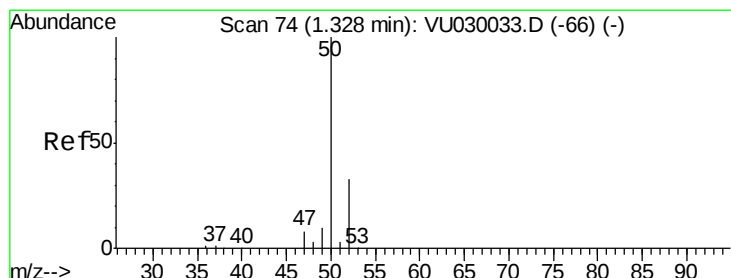
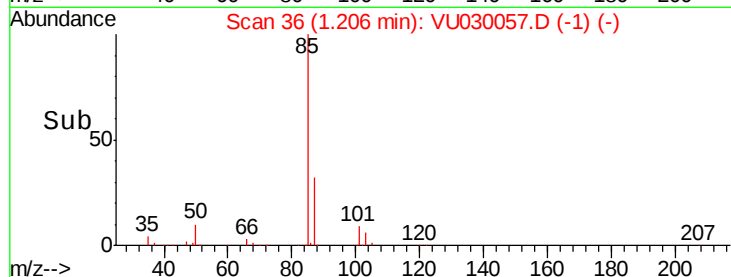
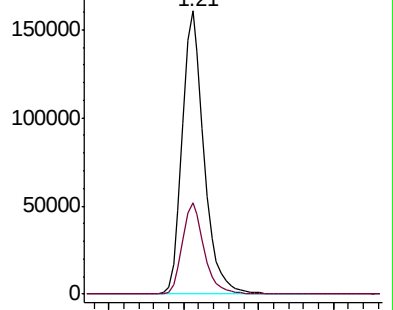
85 100

87 32.2 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VU030033.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU030033.D (-28) (-)



#3

Chloromethane

Concen: 54.793 ug/L

RT: 1.33 min Scan# 75

Delta R.T. 0.00 min

Lab File: VU030057.D

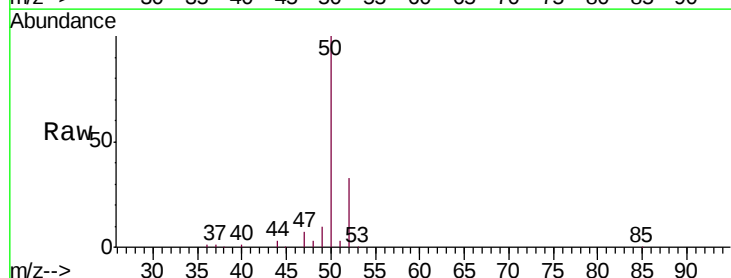
Acq: 14 Mar 2019 01:54

Tgt Ion: 50 Resp: 192952

Ion Ratio Lower Upper

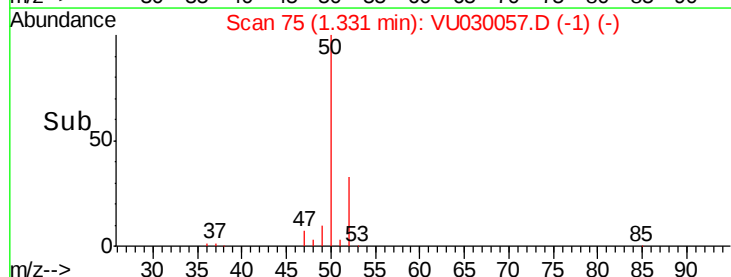
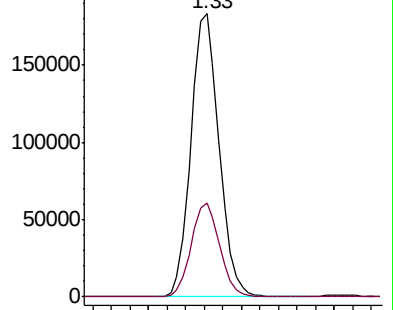
50 100

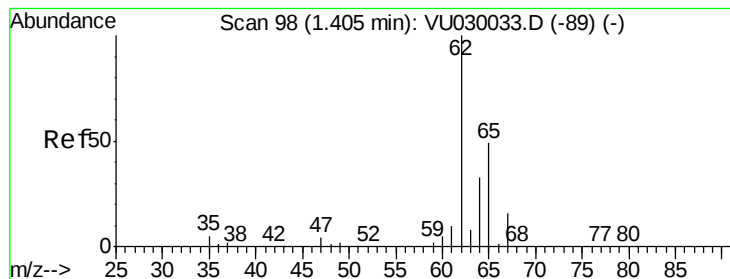
52 33.0 23.4 43.6



Abundance Ion 50.00 (49.70 to 50.70): VU030033.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU030033.D (-66) (-)





#5

Vinyl chloride

Concen: 52.291 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

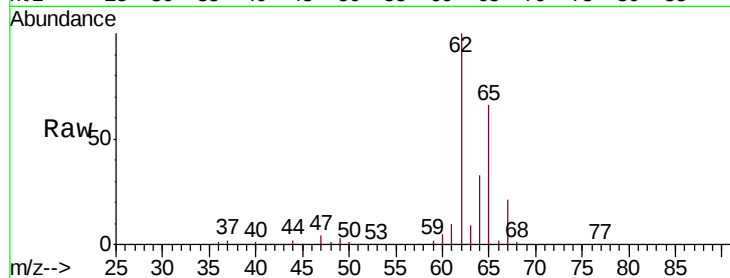
VSTD05034

Tgt Ion: 62 Resp: 201854

Ion Ratio Lower Upper

62 100

64 33.0 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VU030033.D (-89) (-)

Ion 64.00 (63.70 to 64.70): VU030033.D (-89) (-)

1.40

200000

150000

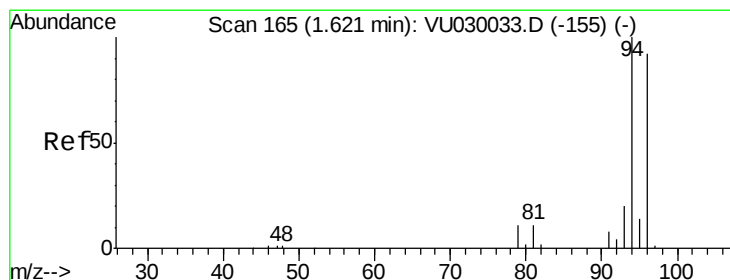
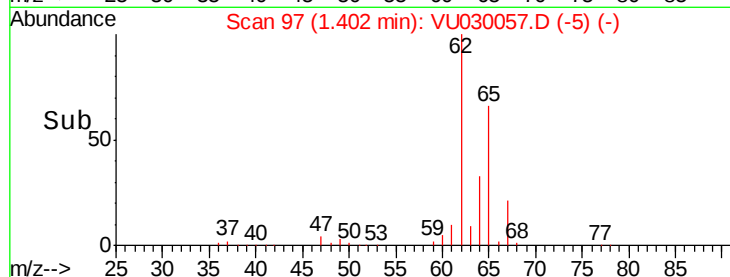
100000

50000

0

Time-->

1.35 1.40 1.45



#6

Bromomethane

Concen: 54.977 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU030057.D

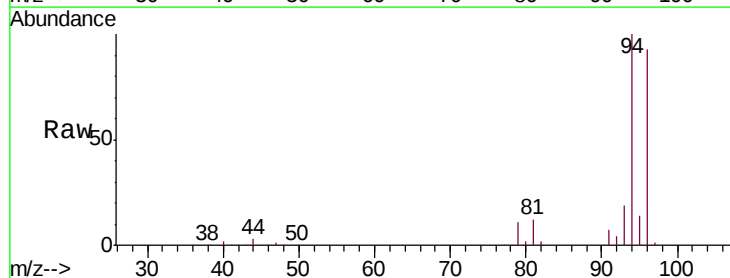
Acq: 14 Mar 2019 01:54

Tgt Ion: 94 Resp: 131468

Ion Ratio Lower Upper

94 100

96 92.9 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VU030033.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU030033.D (-155) (-)

1.62

120000

100000

80000

60000

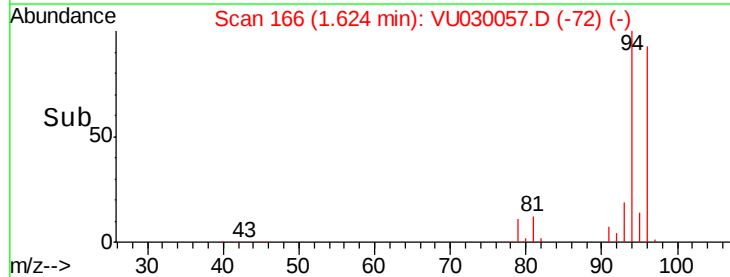
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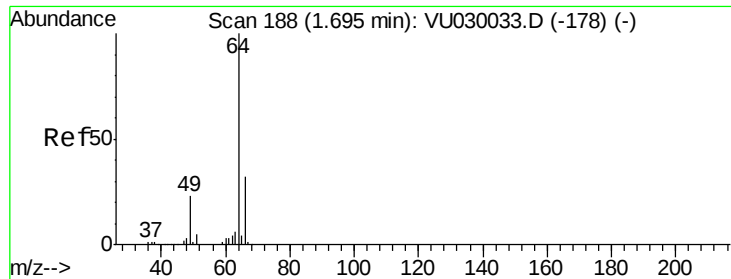
20000

0

Time-->

1.55 1.60 1.65 1.70





#8

Chloroethane

Concen: 49.858 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

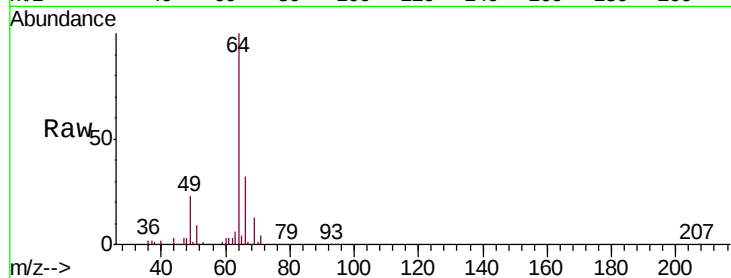
VSTD05034

Tgt Ion: 64 Resp: 126145

Ion Ratio Lower Upper

64 100

66 31.7 21.3 39.6



Abundance Ion 64.00 (63.70 to 64.70): VU030033.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU030033.D (-178) (-)

1.70

100000

80000

60000

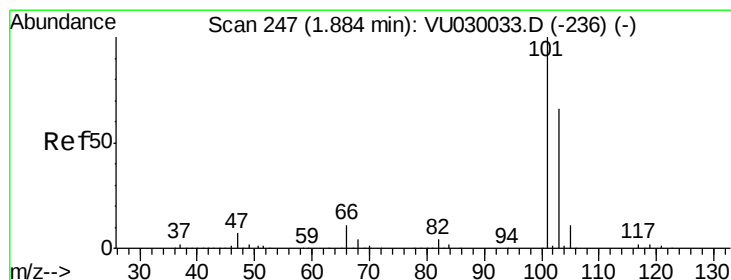
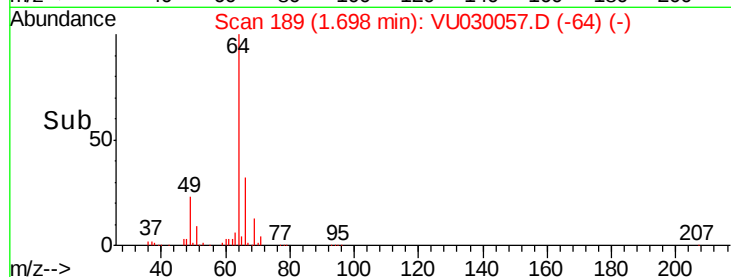
40000

20000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 51.236 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU030057.D

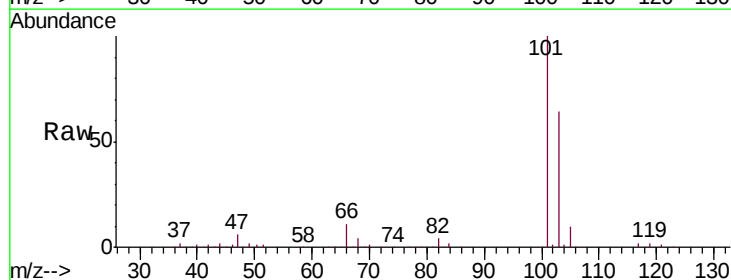
Acq: 14 Mar 2019 01:54

Tgt Ion: 101 Resp: 265251

Ion Ratio Lower Upper

101 100

103 64.1 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VU030033.D (-236) (-)

Ion 103.00 (102.70 to 103.70): VU030033.D (-236) (-)

1.88

200000

150000

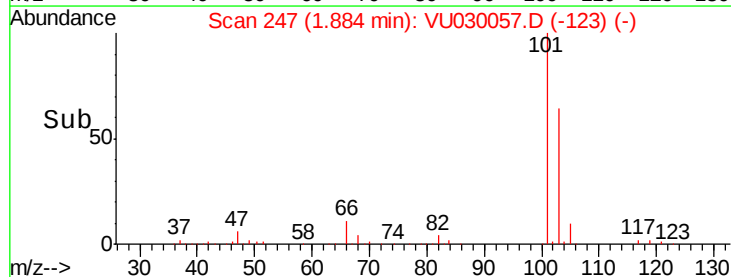
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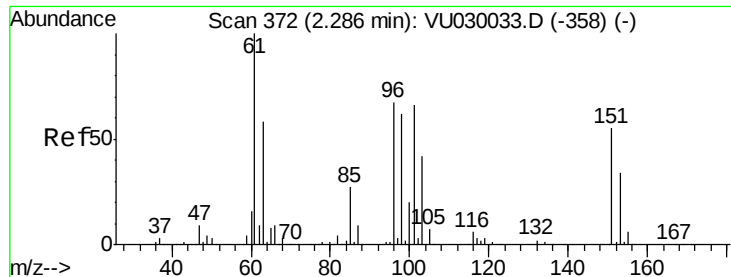
50000

0

1.85 1.90 1.95

Time-->





#10

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

Concen: 49.669 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

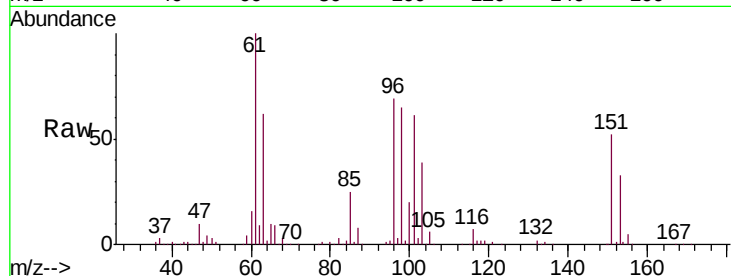
Tgt Ion: 101 Resp: 164841

Ion Ratio Lower Upper

101 100

85 41.5 33.0 49.4

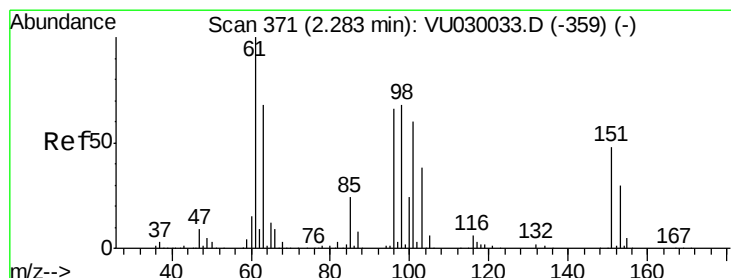
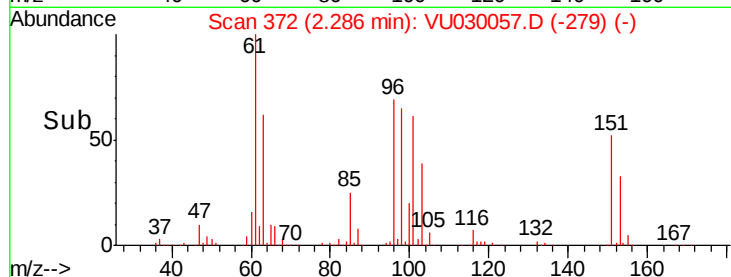
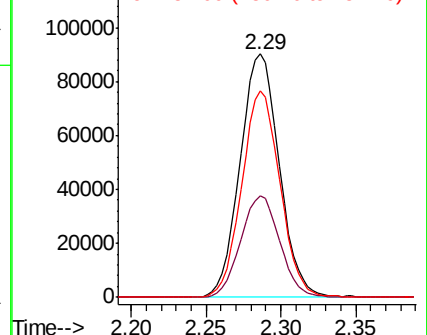
151 82.9 66.1 99.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 52.476 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

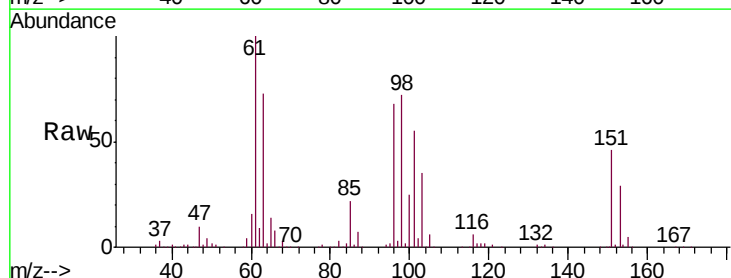
Tgt Ion: 96 Resp: 166152

Ion Ratio Lower Upper

96 100

61 147.8 110.4 205.0

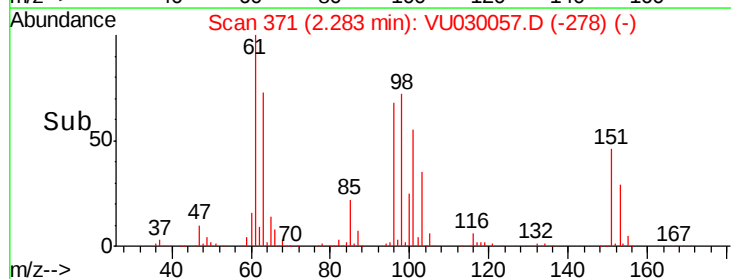
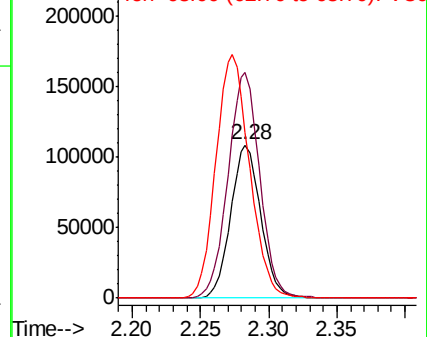
63 108.5 86.5 160.7

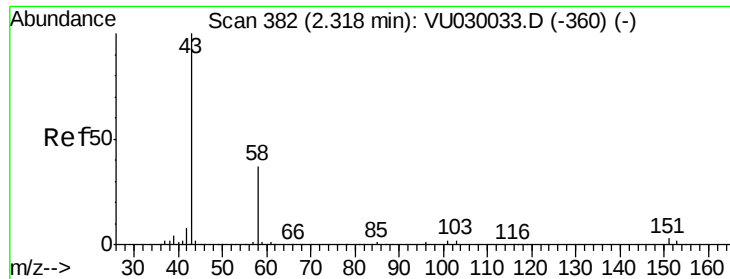


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 62.233 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030057.D

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MSVOA_U

ClientSampleId :

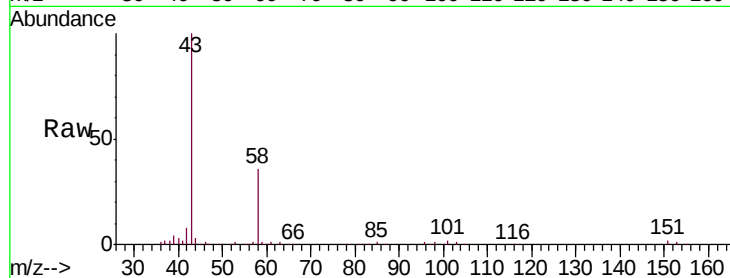
VSTD05034

Tgt Ion: 43 Resp: 182164

Ion Ratio Lower Upper

43 100

58 35.8 0.0 73.0



Abundance Ion 43.00 (42.70 to 43.70): VU030033.D (-360) (-)

Ion 58.00 (57.70 to 58.70): VU030033.D (-360) (-)

2.32

120000

100000

80000

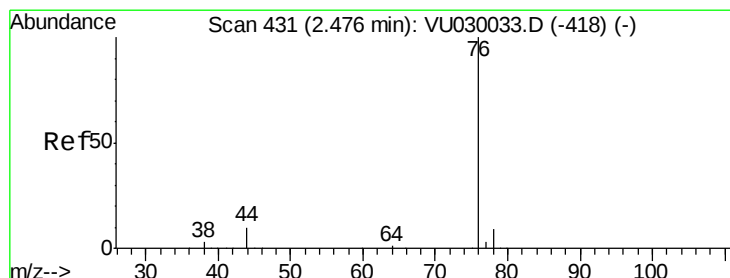
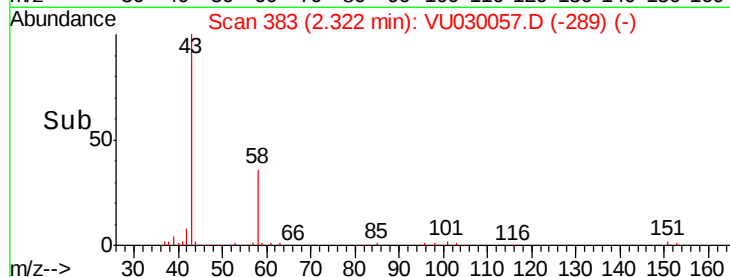
60000

40000

20000

0

Time-->



#14

Carbon disulfide

Concen: 49.254 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU030057.D

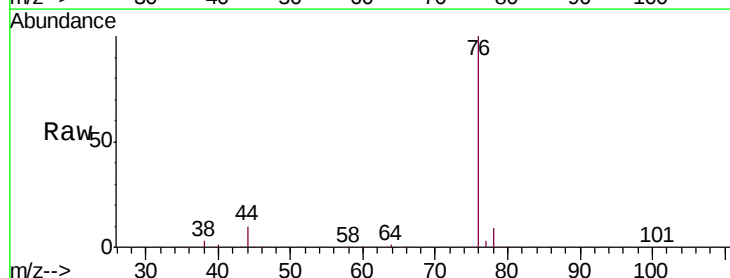
Acq: 14 Mar 2019 01:54

Tgt Ion: 76 Resp: 483353

Ion Ratio Lower Upper

76 100

78 8.8 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU030033.D (-418) (-)

Ion 78.00 (77.70 to 78.70): VU030033.D (-418) (-)

2.48

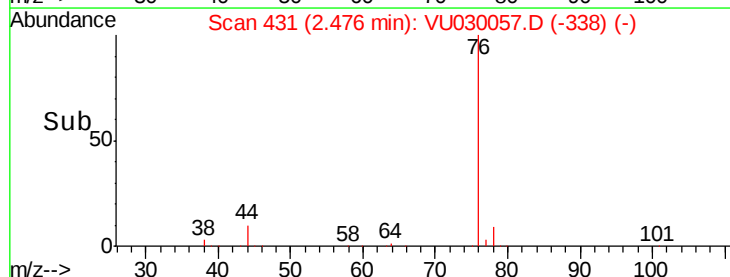
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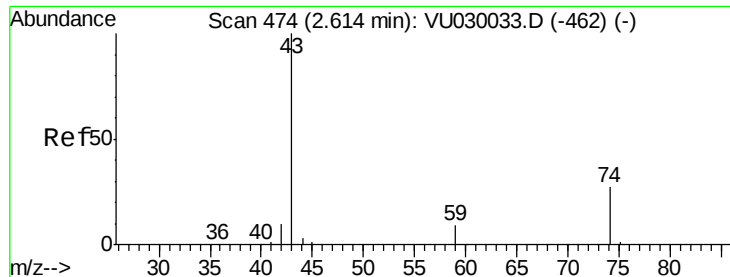
200000

100000

0

Time-->

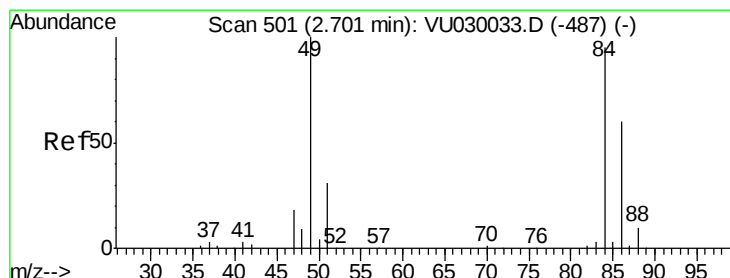
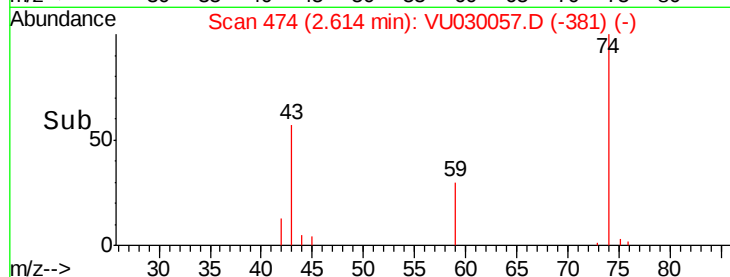
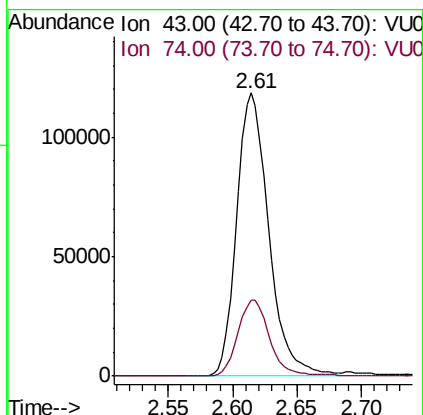
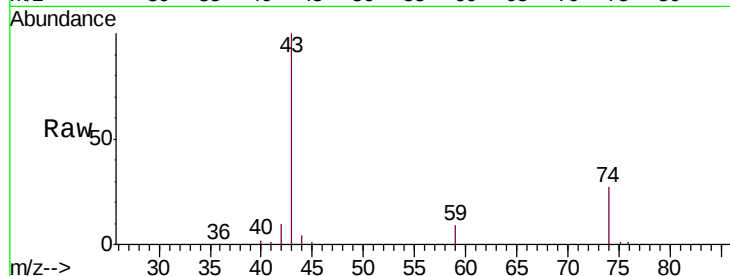




#15
Methyl Acetate
Concen: 54.092 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU030057.D
Acq: 14 Mar 2019 01:54

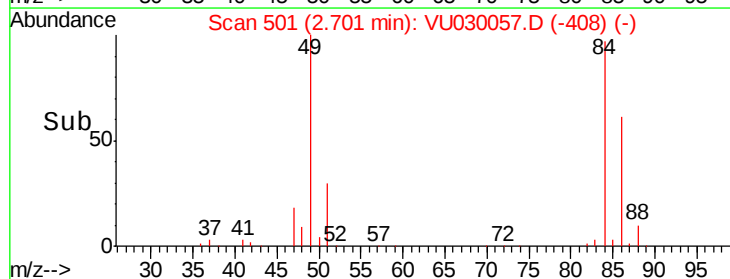
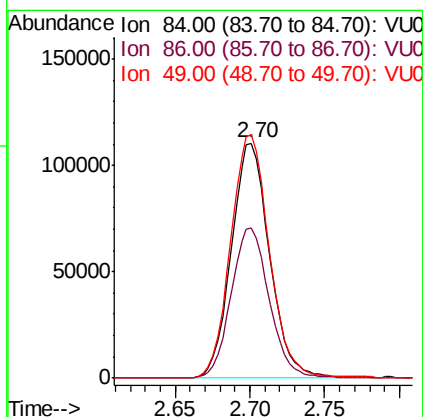
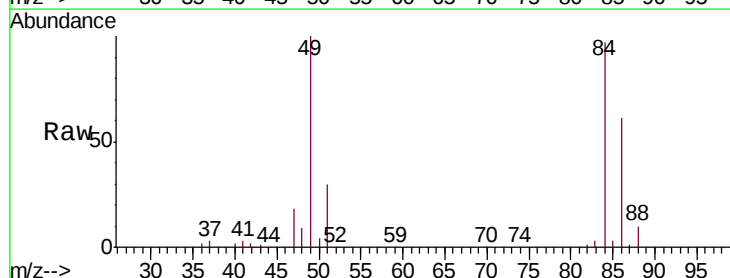
Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

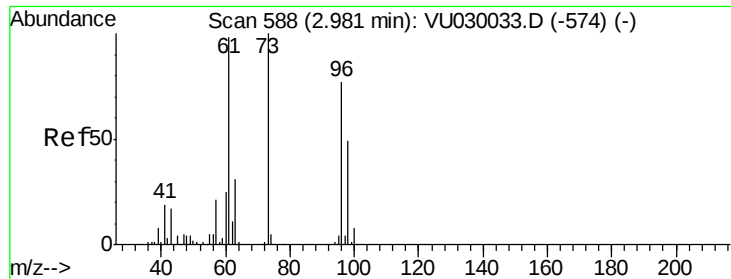
Tgt Ion: 43 Resp: 204561
Ion Ratio Lower Upper
43 100
74 26.9 21.9 32.9



#16
Methylene chloride
Concen: 52.473 ug/L
RT: 2.70 min Scan# 501
Delta R.T. 0.00 min
Lab File: VU030057.D
Acq: 14 Mar 2019 01:54

Tgt Ion: 84 Resp: 196182
Ion Ratio Lower Upper
84 100
86 63.6 45.2 84.0
49 103.5 73.6 136.6





#17

trans-1,2-Dichloroethene

Concen: 51.269 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

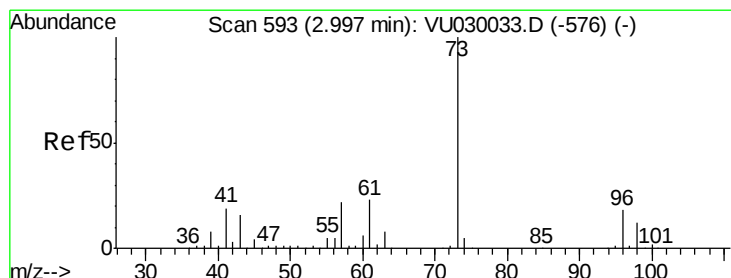
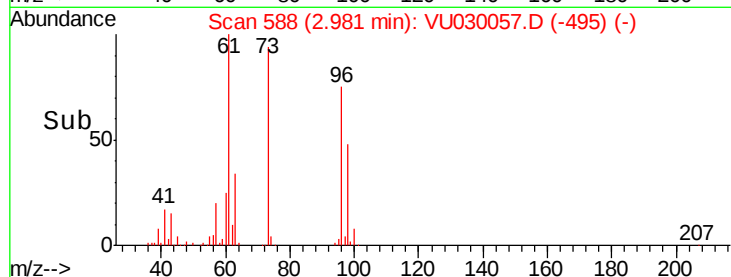
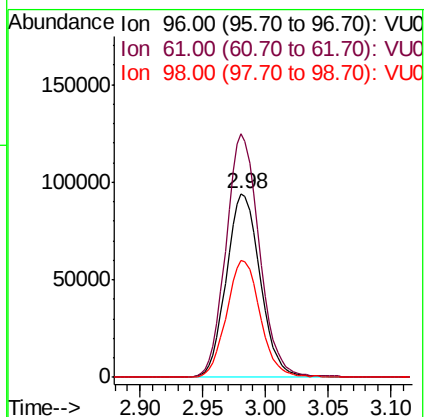
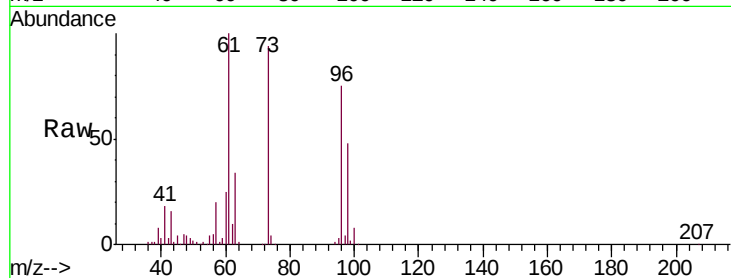
Tgt Ion: 96 Resp: 176781

Ion Ratio Lower Upper

96 100

61 132.5 89.4 166.0

98 63.4 43.3 80.5



#18

Methyl tert-butyl Ether

Concen: 53.231 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

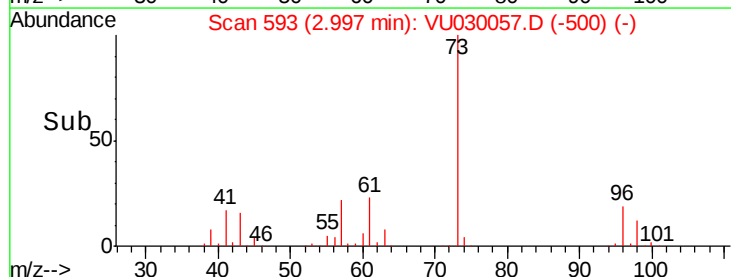
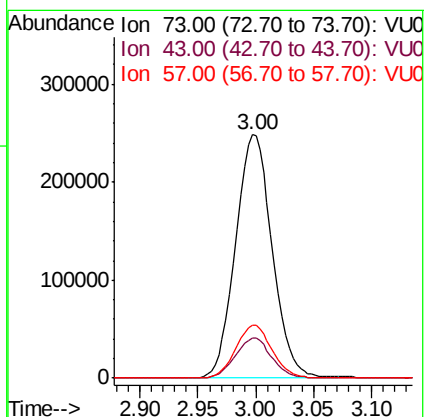
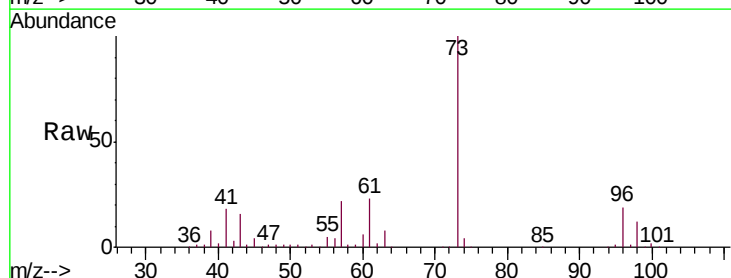
Tgt Ion: 73 Resp: 544364

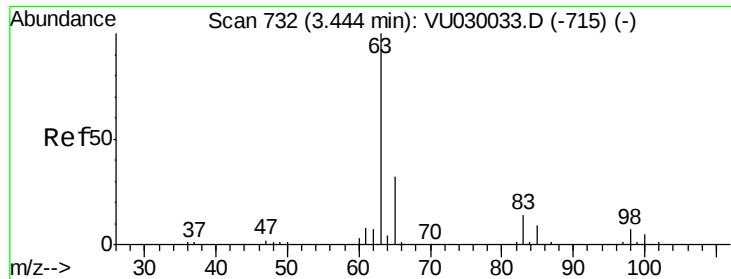
Ion Ratio Lower Upper

73 100

43 16.1 13.1 19.7

57 21.5 17.1 25.7

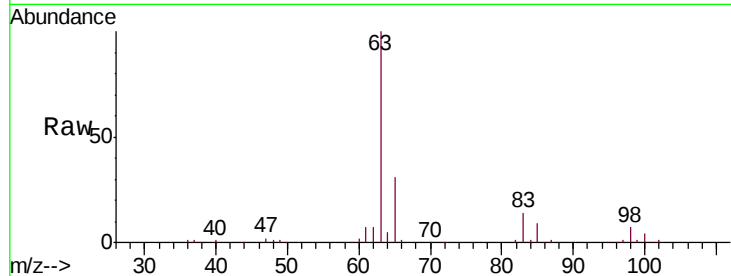




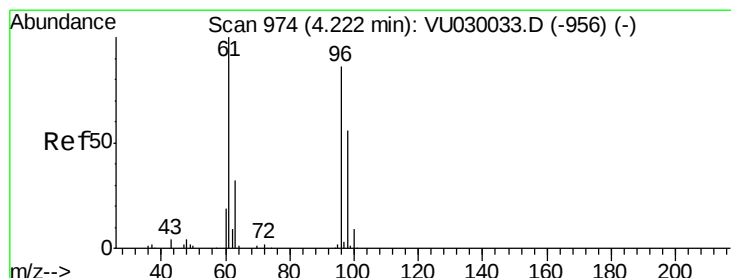
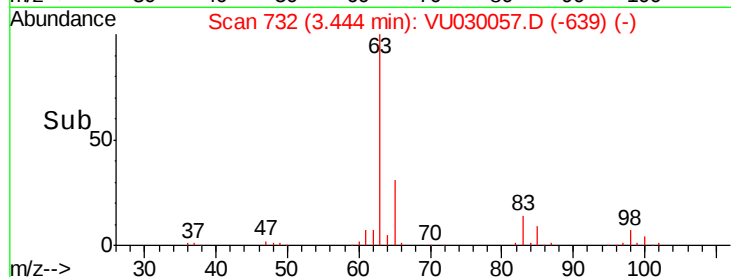
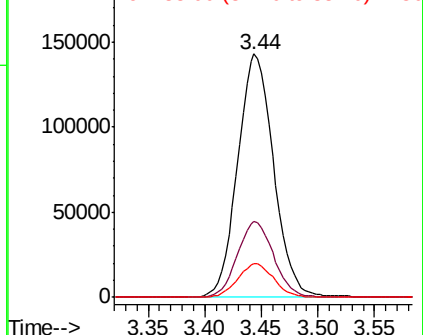
#19
 1,1-Dichloroethane
 Concen: 53.537 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VU030057.D
 Acq: 14 Mar 2019 01:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

Tgt Ion: 63 Resp: 316948
 Ion Ratio Lower Upper
 63 100
 65 31.1 22.0 41.0
 83 13.7 9.7 18.1

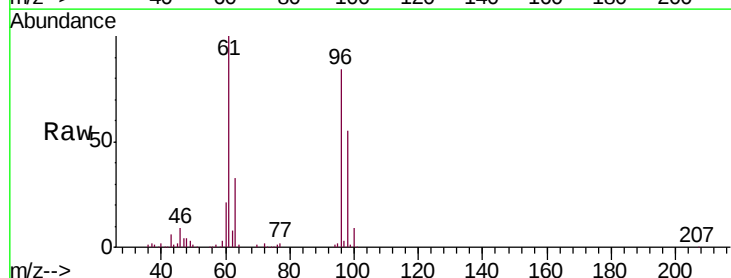


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

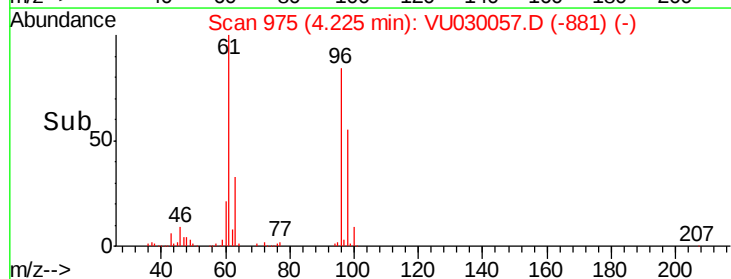
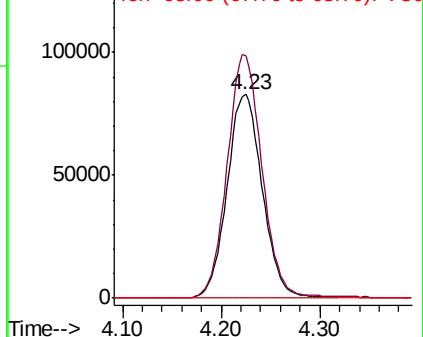


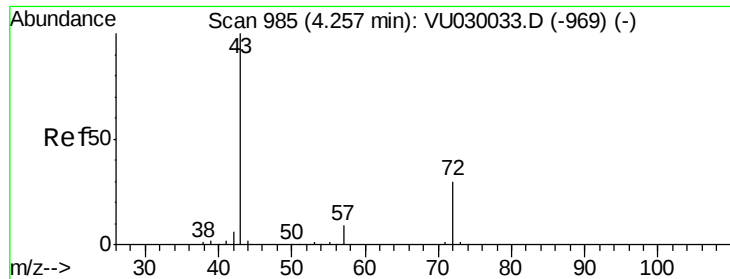
#20
 cis-1,2-Dichloroethene
 Concen: 52.739 ug/L
 RT: 4.23 min Scan# 975
 Delta R.T. 0.00 min
 Lab File: VU030057.D
 Acq: 14 Mar 2019 01:54

Tgt Ion: 96 Resp: 207019
 Ion Ratio Lower Upper
 96 100
 61 119.2 80.8 150.2
 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: 88.587 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

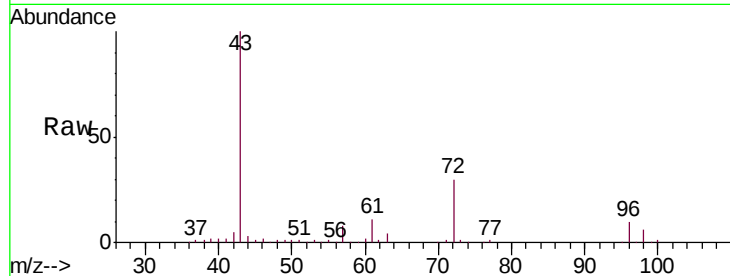
VSTD05034

Tgt Ion: 43 Resp: 295206

Ion Ratio Lower Upper

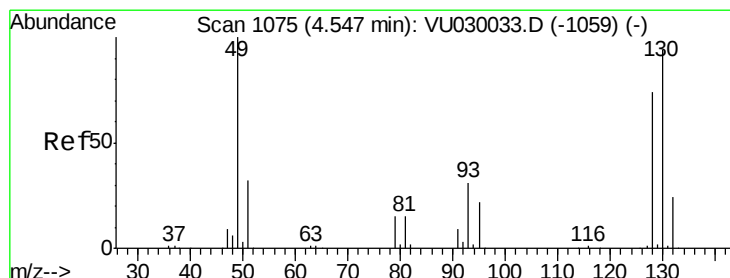
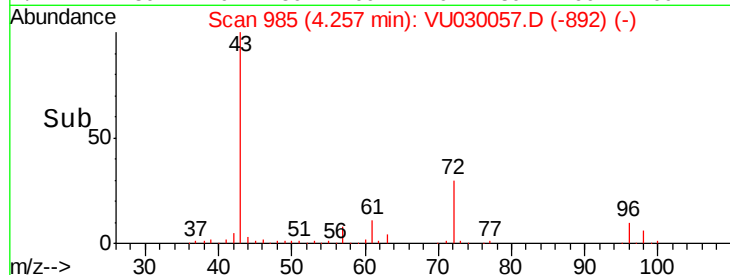
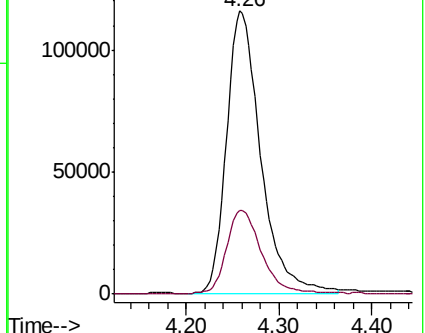
43 100

72 30.4 15.3 45.9



Abundance Ion 43.00 (42.70 to 43.70): VU030033.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU030033.D (-969) (-)



#23

Bromochloromethane

Concen: 51.893 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Tgt Ion: 128 Resp: 105517

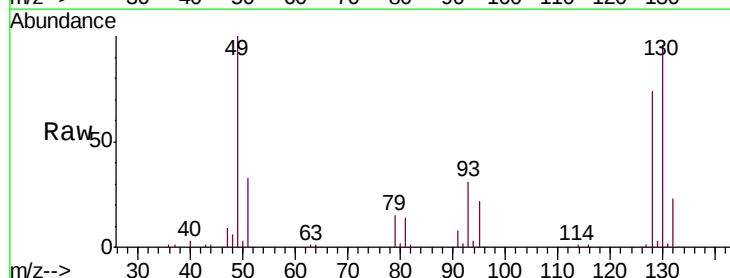
Ion Ratio Lower Upper

128 100

49 134.9 94.5 175.5

130 129.9 91.4 169.8

51 44.1 34.2 51.2

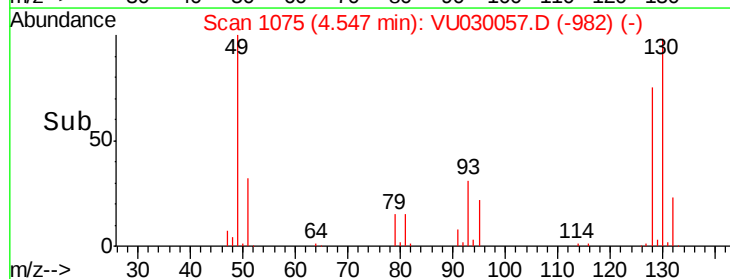
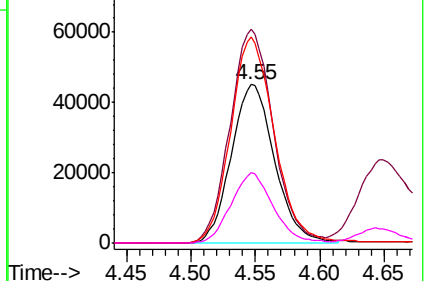


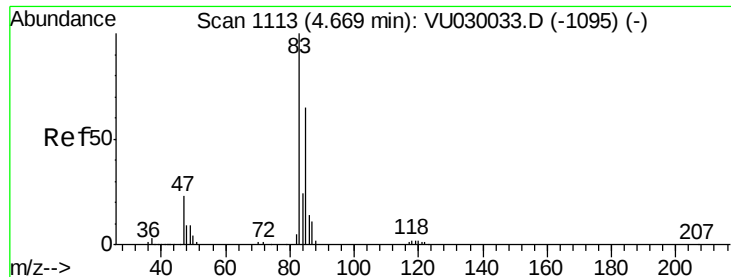
Abundance Ion 128.00 (127.70 to 128.70): VU030033.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU030033.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU030033.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU030033.D (-1059) (-)





#25

Chloroform

Concen: 52.653 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

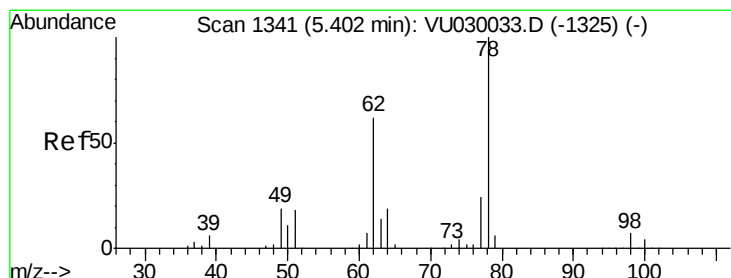
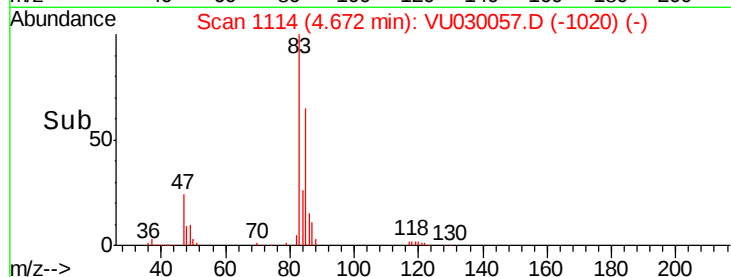
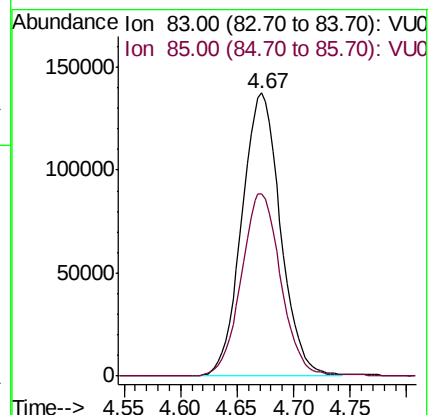
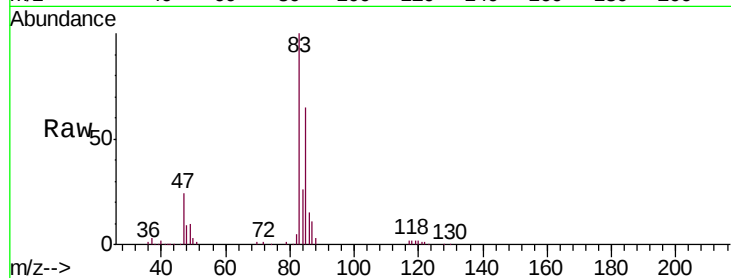
VSTD05034

Tgt Ion: 83 Resp: 327166

Ion Ratio Lower Upper

83 100

85 64.5 44.9 83.5



#27

1,2-Dichloroethane

Concen: 52.245 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU030057.D

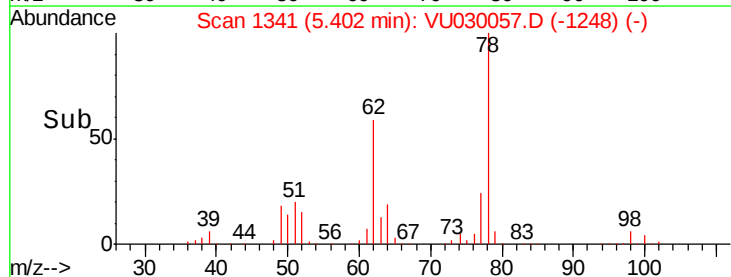
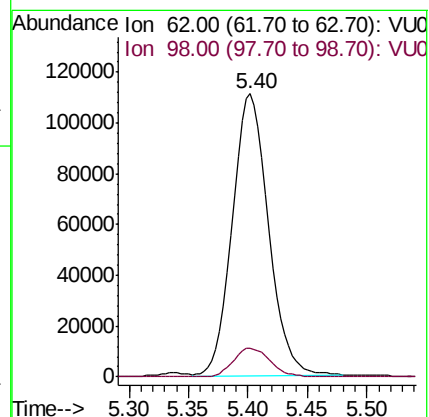
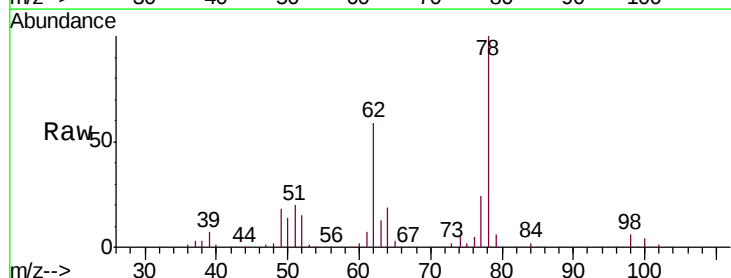
Acq: 14 Mar 2019 01:54

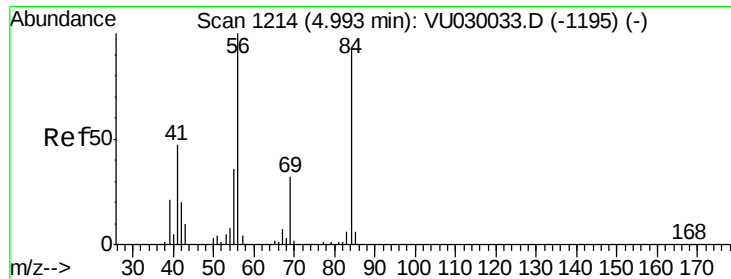
Tgt Ion: 62 Resp: 233392

Ion Ratio Lower Upper

62 100

98 10.2 8.8 13.2

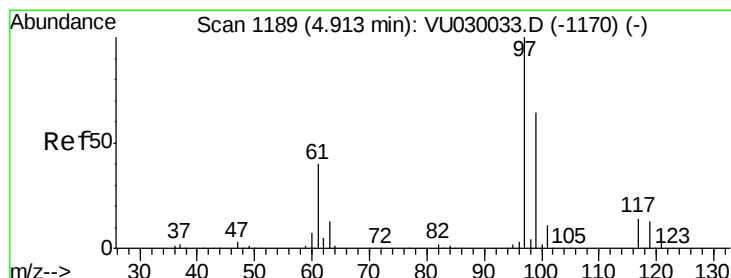
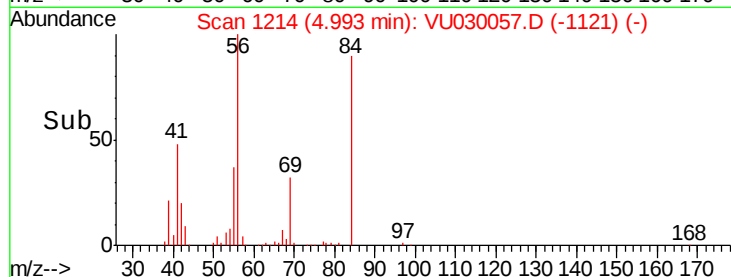
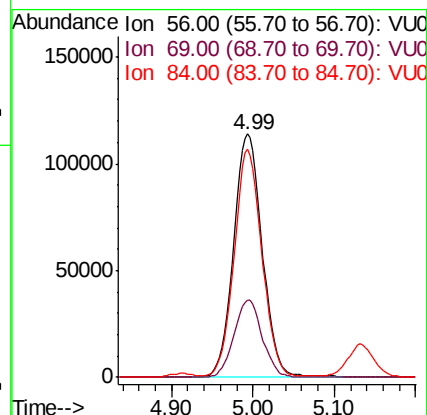
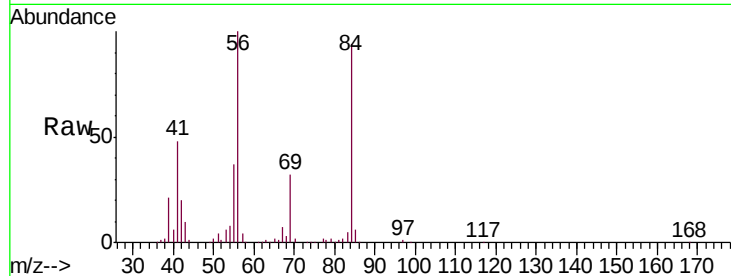




#29
Cyclohexane
Concen: 50.852 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VU030057.D
Acq: 14 Mar 2019 01:54

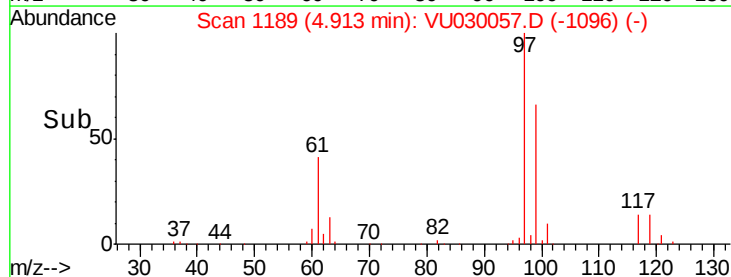
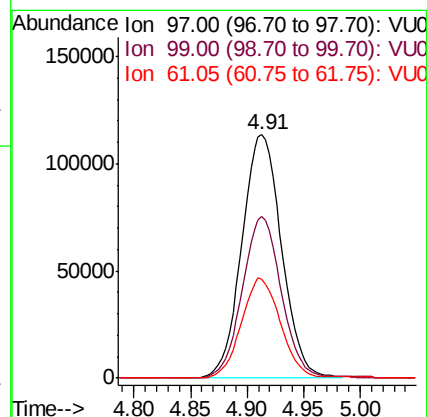
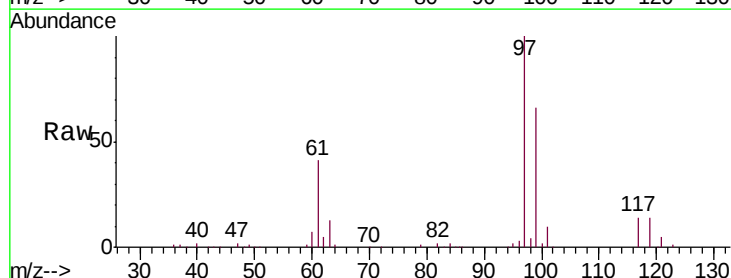
Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

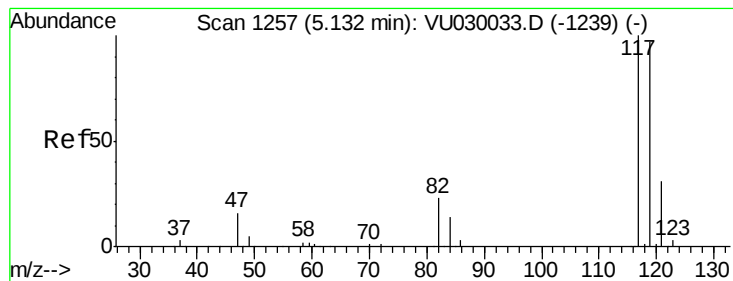
Tgt Ion: 56 Resp: 279438
Ion Ratio Lower Upper
56 100
69 31.4 25.3 37.9
84 89.8 73.5 110.3



#30
1,1,1-Trichloroethane
Concen: 51.072 ug/L
RT: 4.91 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU030057.D
Acq: 14 Mar 2019 01:54

Tgt Ion: 97 Resp: 277784
Ion Ratio Lower Upper
97 100
99 65.5 52.2 78.2
61 40.5 32.2 48.4





#31

Carbon tetrachloride

Concen: 49.776 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

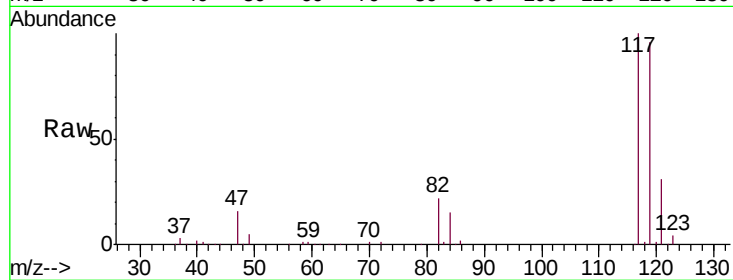
VSTD05034

Tgt Ion:117 Resp: 239067

Ion Ratio Lower Upper

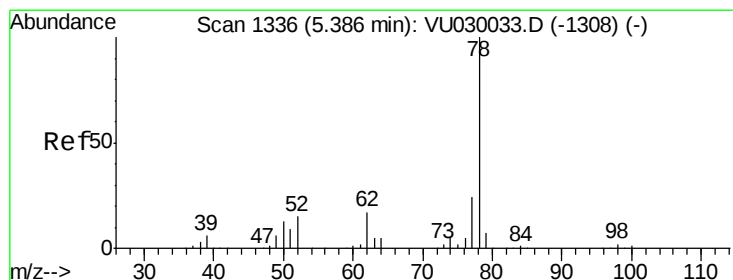
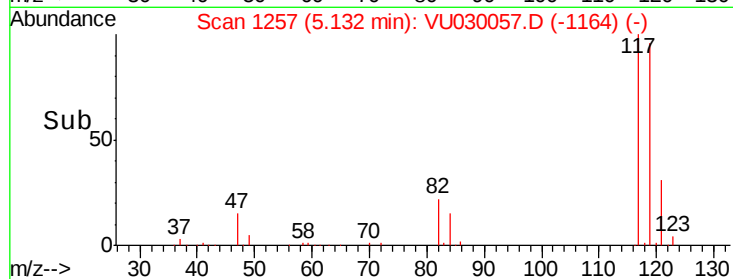
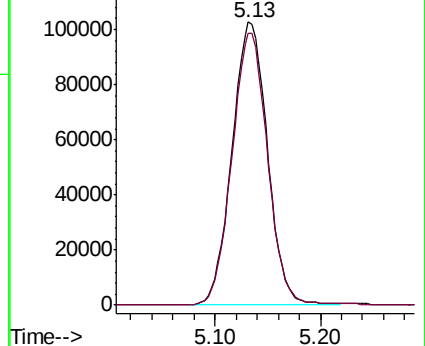
117 100

119 96.4 77.3 115.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.967 ug/L

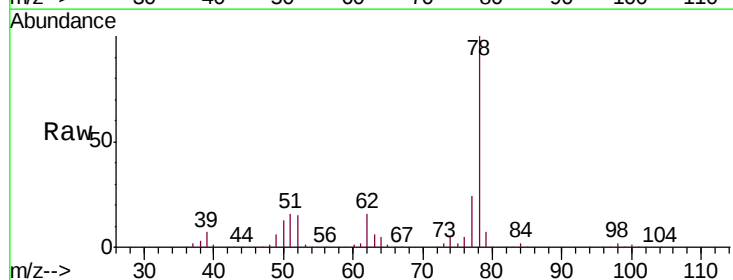
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

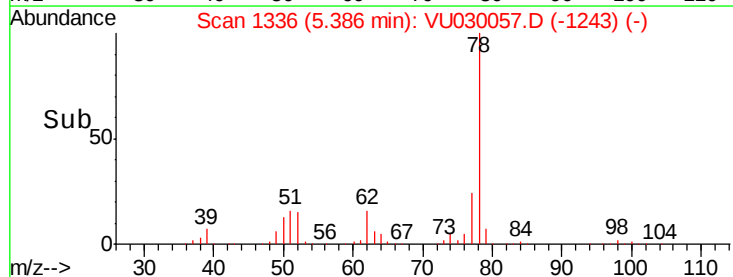
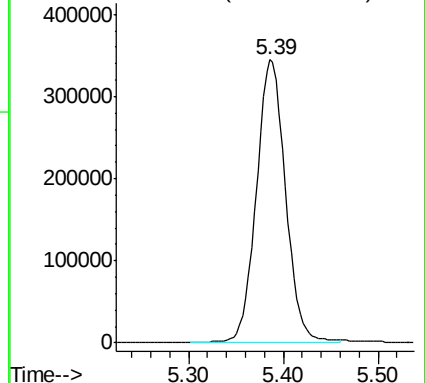
Lab File: VU030057.D

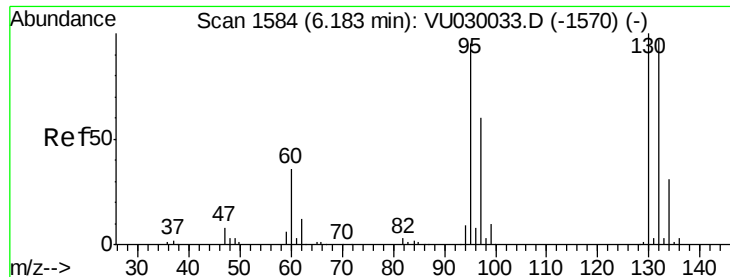
Acq: 14 Mar 2019 01:54

Tgt Ion: 78 Resp: 740891



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 50.535 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

Tgt Ion: 95 Resp: 188828

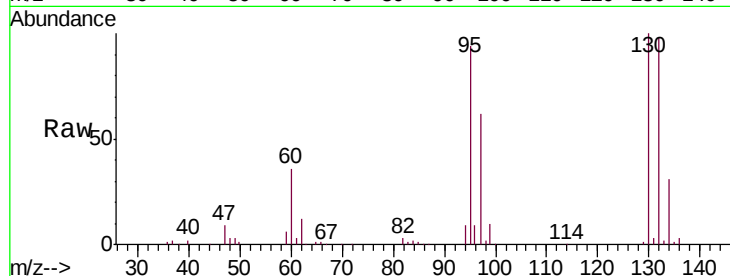
Ion Ratio Lower Upper

95 100

97 65.7 45.5 84.5

132 103.8 71.5 132.7

130 106.4 73.5 136.5

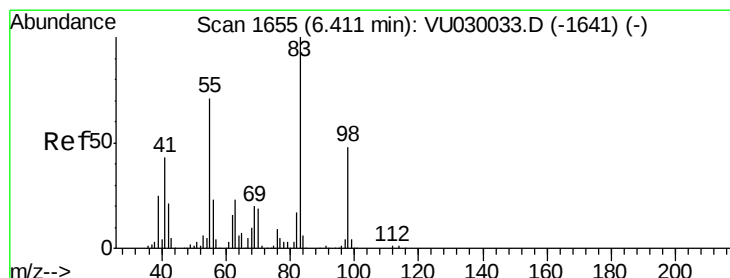
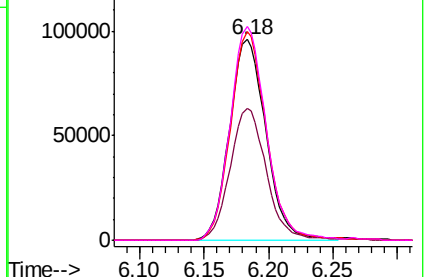
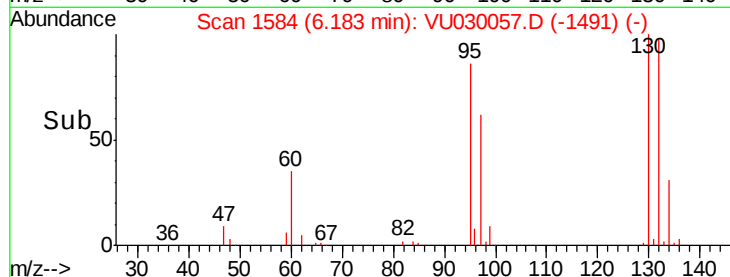


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 50.273 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

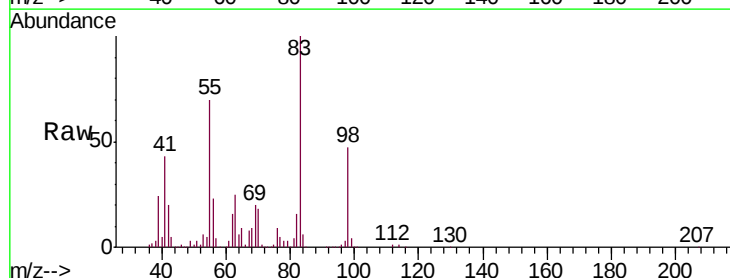
Tgt Ion: 83 Resp: 304611

Ion Ratio Lower Upper

83 100

55 69.5 56.6 84.8

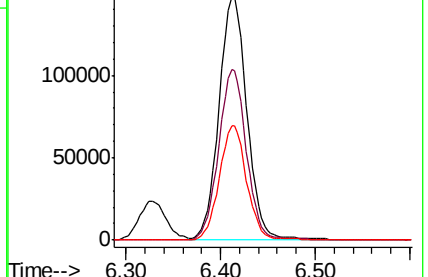
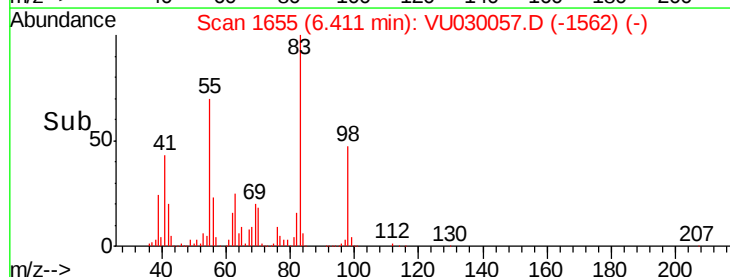
98 46.0 37.8 56.6

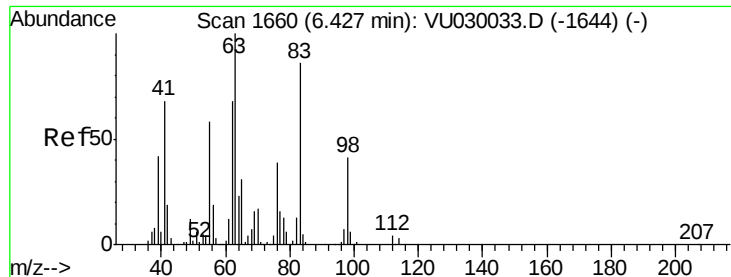


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 52.319 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

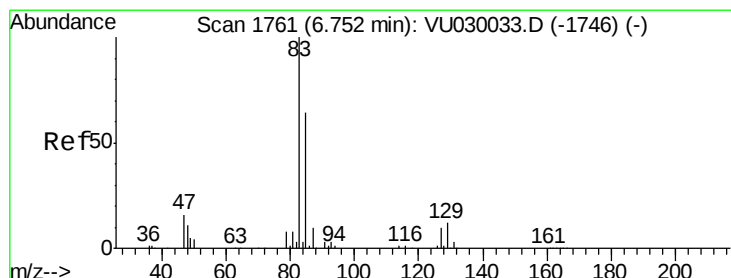
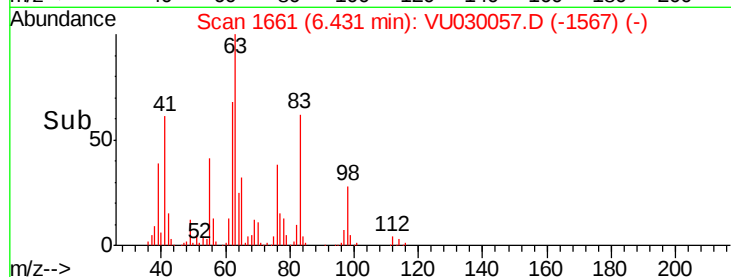
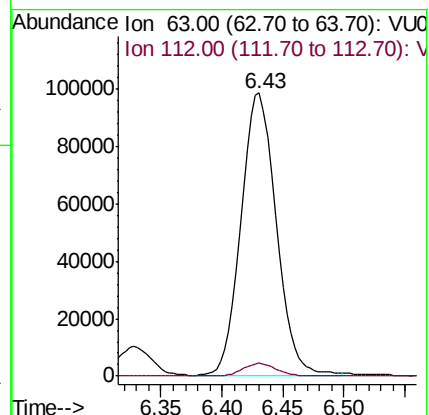
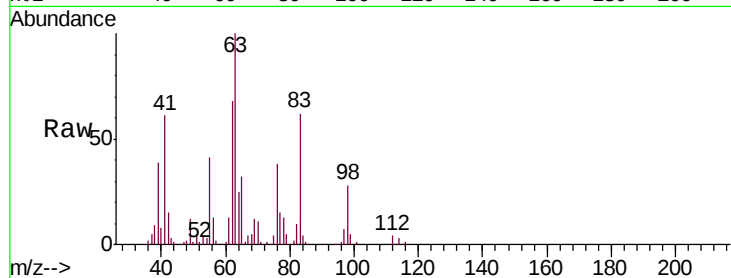
VSTD05034

Tgt Ion: 63 Resp: 196200

Ion Ratio Lower Upper

63 100

112 4.3 3.4 5.2



#38

Bromodichloromethane

Concen: 51.591 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

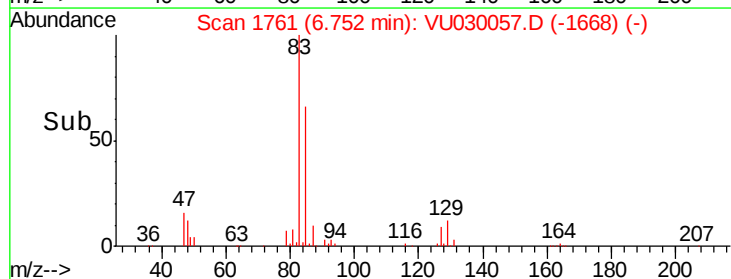
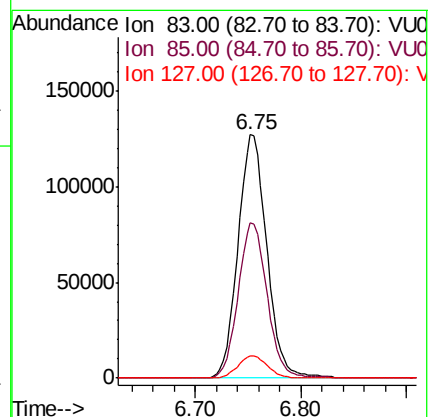
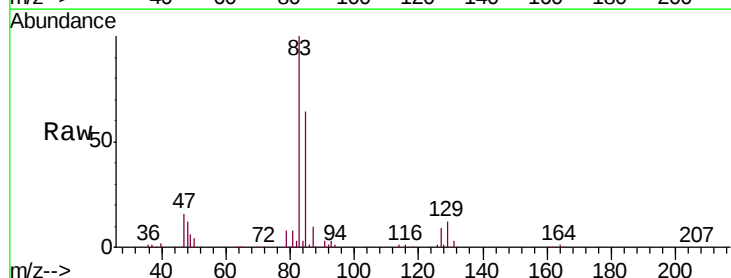
Tgt Ion: 83 Resp: 240584

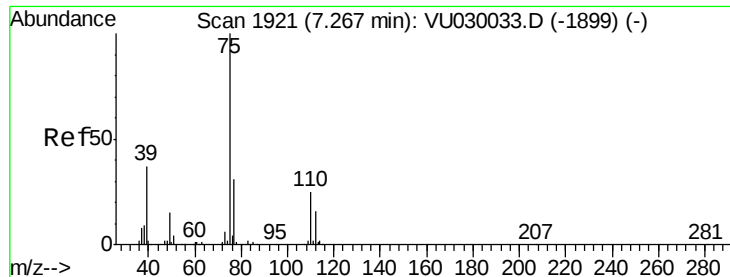
Ion Ratio Lower Upper

83 100

85 63.9 45.7 84.9

127 9.1 7.7 11.5



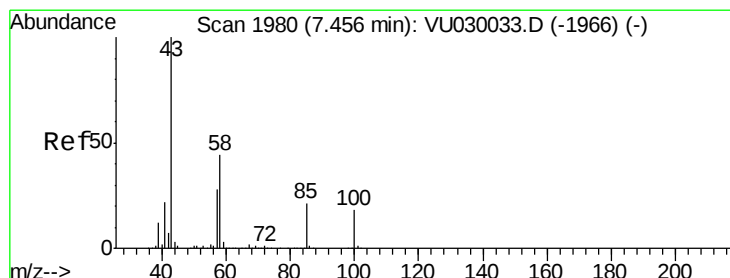
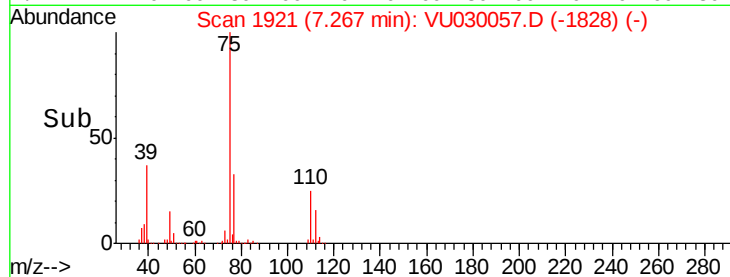
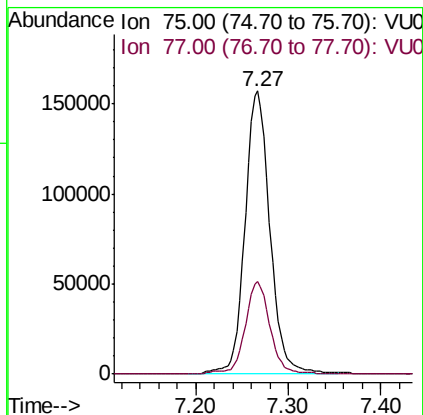
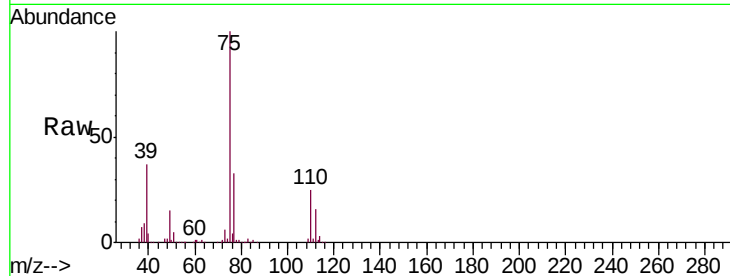


#39

cis-1,3-Dichloropropene
 Concen: 50.315 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU030057.D
 Acq: 14 Mar 2019 01:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

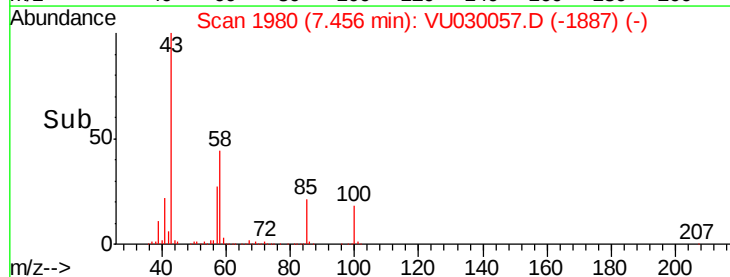
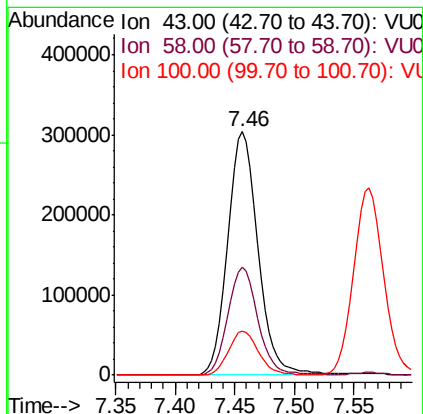
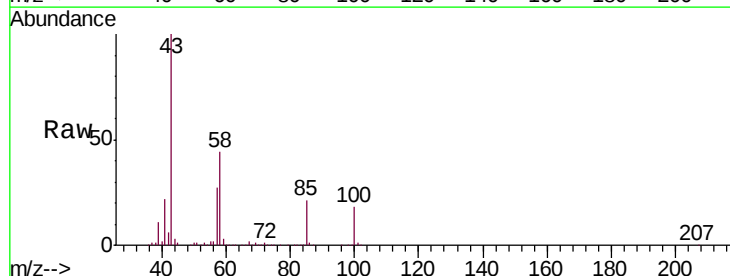
Tgt Ion: 75 Resp: 293629
 Ion Ratio Lower Upper
 75 100
 77 32.6 22.2 41.2

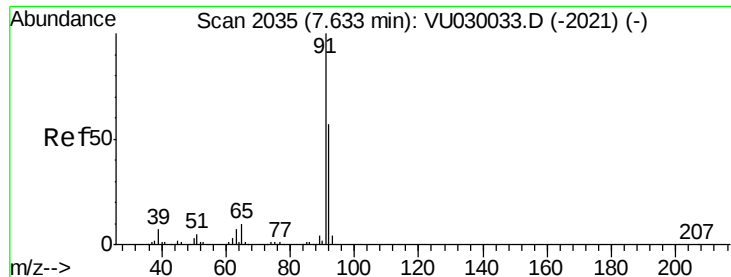


#40

4-Methyl-2-pentanone
 Concen: 106.324 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU030057.D
 Acq: 14 Mar 2019 01:54

Tgt Ion: 43 Resp: 538370
 Ion Ratio Lower Upper
 43 100
 58 43.9 35.1 52.7
 100 18.2 14.4 21.6





#42

Toluene

Concen: 52.277 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

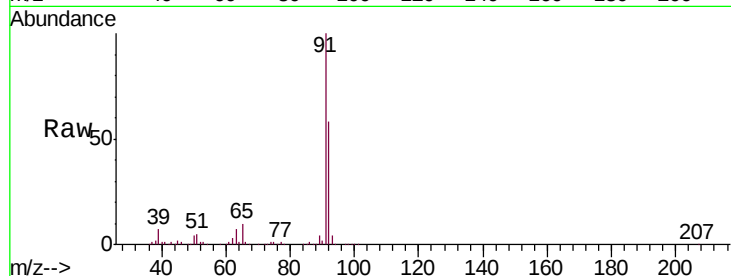
VSTD05034

Tgt Ion: 91 Resp: 810333

Ion Ratio Lower Upper

91 100

92 57.8 40.6 75.4



Abundance Ion 91.00 (90.70 to 91.70): VU030033.D (-2021) (-)

Ion 92.00 (91.70 to 92.70): VU030033.D (-2021) (-)

7.63

500000

400000

300000

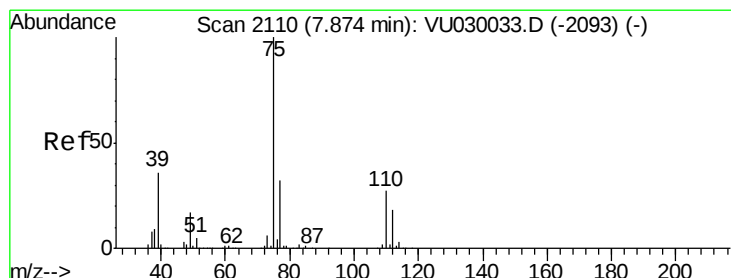
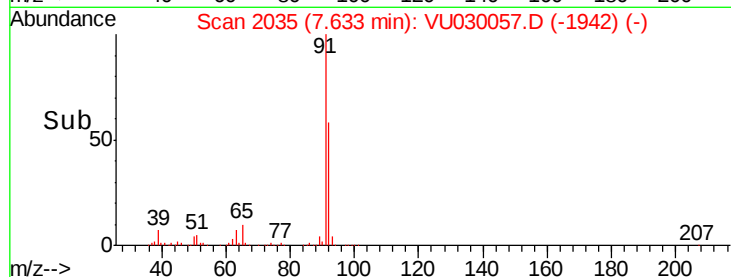
200000

100000

0

7.60 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 49.784 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU030057.D

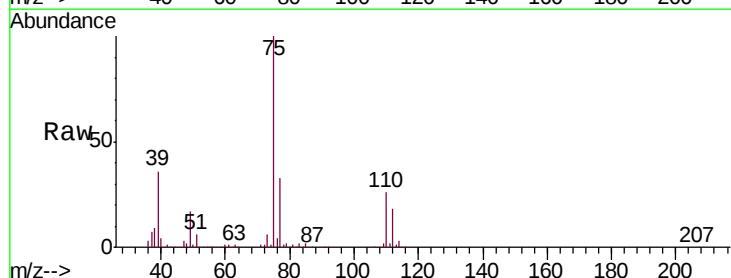
Acq: 14 Mar 2019 01:54

Tgt Ion: 75 Resp: 265271

Ion Ratio Lower Upper

75 100

77 32.5 21.9 40.7



Abundance Ion 75.00 (74.70 to 75.70): VU030033.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU030033.D (-2093) (-)

7.88

150000

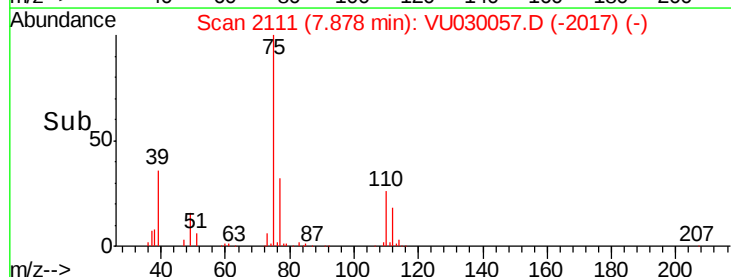
100000

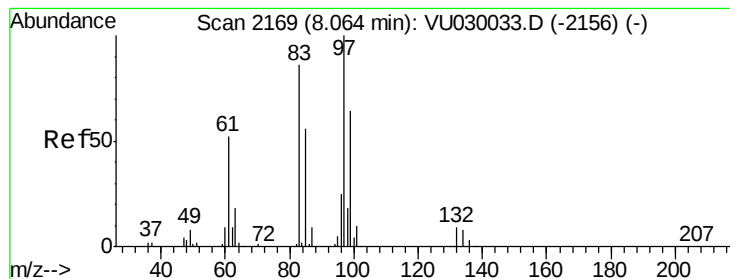
50000

0

7.80 7.90 8.00

Time-->





#45

1,1,2-Trichloroethane

Concen: 52.657 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

Tgt Ion: 97 Resp: 197483

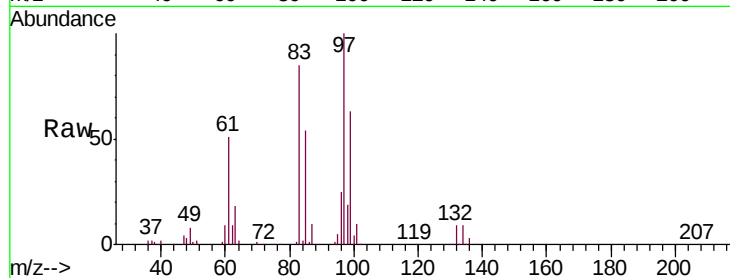
Ion Ratio Lower Upper

97 100

99 62.9 44.7 82.9

83 85.1 58.6 108.8

85 54.2 38.1 70.7

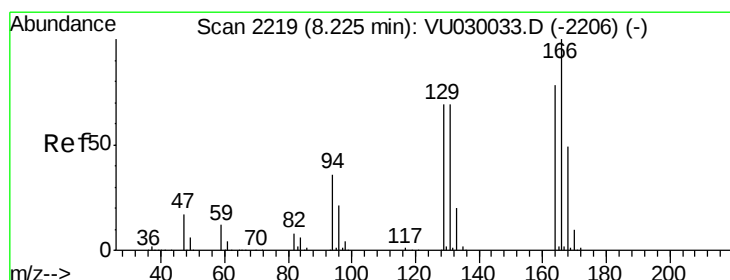
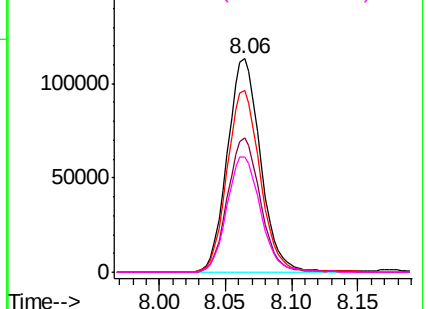
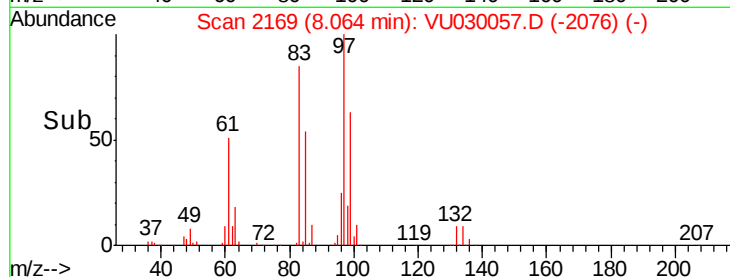


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 50.246 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Tgt Ion: 164 Resp: 164302

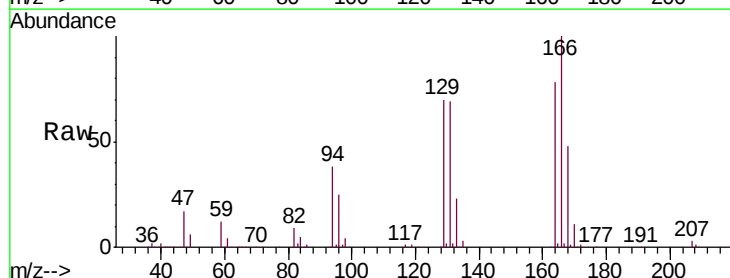
Ion Ratio Lower Upper

164 100

129 89.0 63.3 117.7

131 87.6 62.0 115.2

166 127.6 90.5 168.1

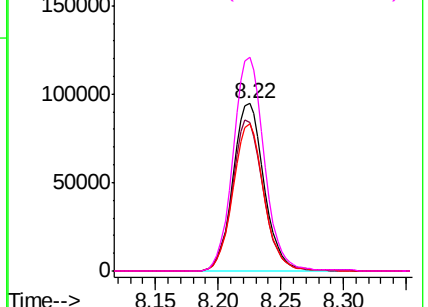
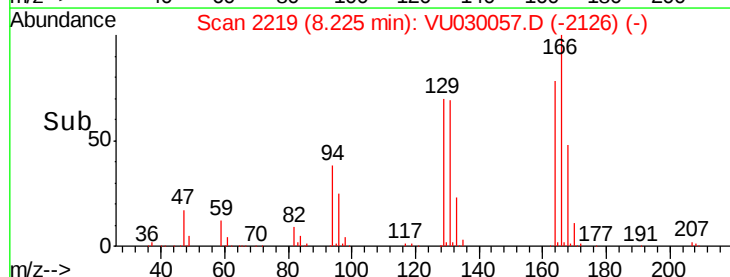


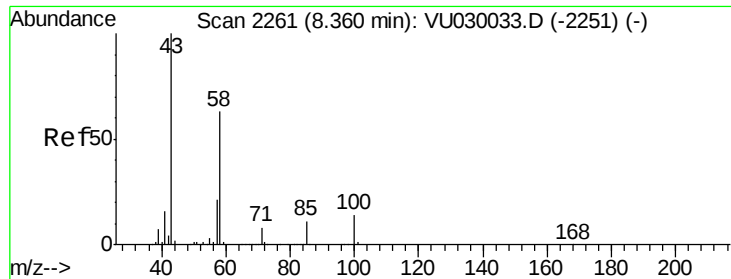
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

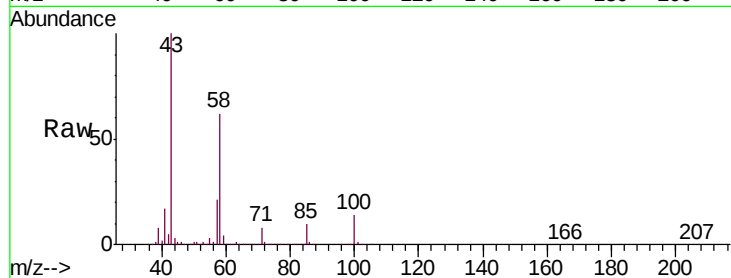




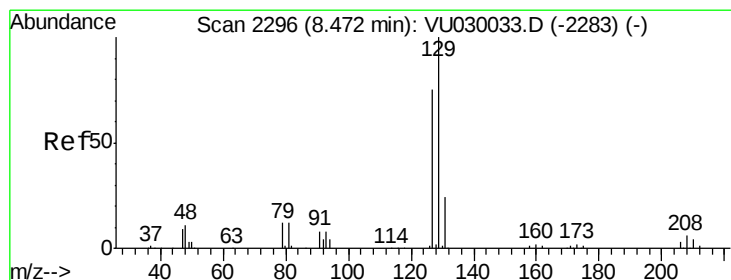
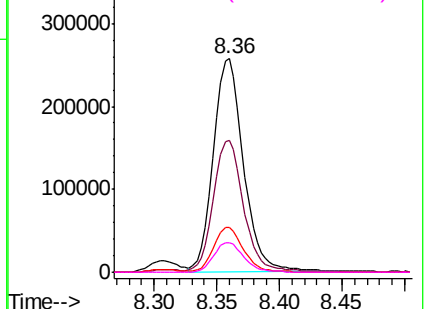
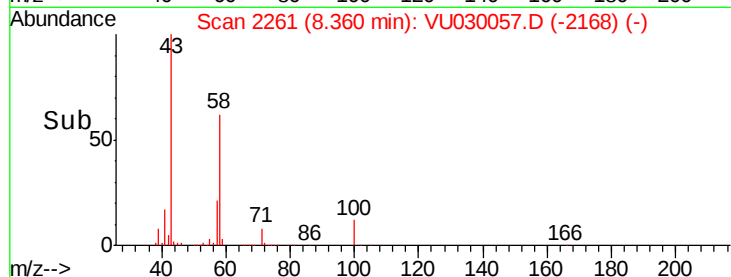
#48
2-Hexanone
Concen: 99.303 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU030057.D
Acq: 14 Mar 2019 01:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

Tgt Ion:	43	Resp:	428965
Ion	Ratio	Lower	Upper
43	100		
58	62.0	48.6	72.8
57	20.6	16.1	24.1
100	14.0	11.6	17.4

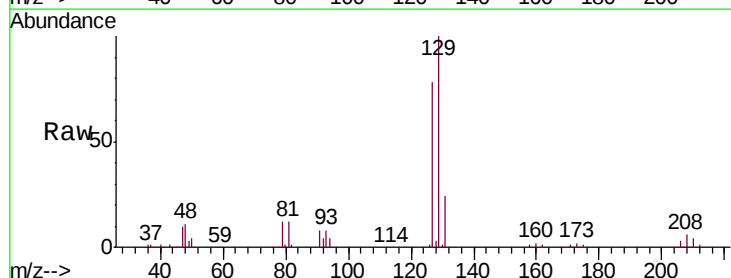


Abundance Ion 43.00 (42.70 to 43.70): VU030033.D (-2251) (-)
Ion 58.00 (57.70 to 58.70): VU030033.D (-2251) (-)
Ion 57.00 (56.70 to 57.70): VU030033.D (-2251) (-)
Ion 100.00 (99.70 to 100.70): VU030033.D (-2251) (-)

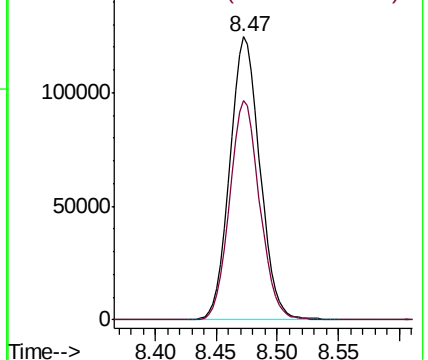
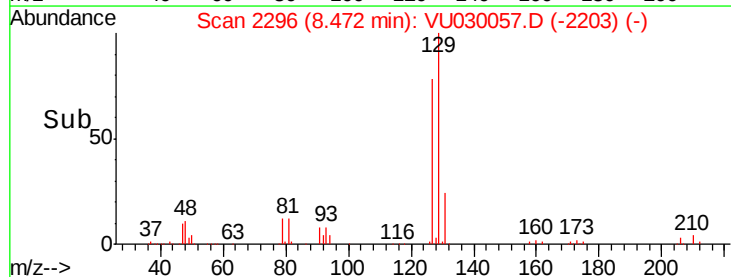


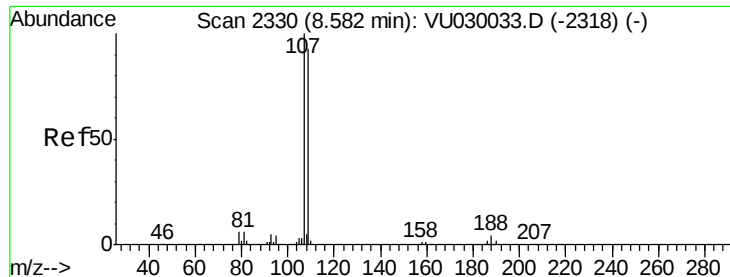
#49
Dibromochloromethane
Concen: 51.254 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030057.D
Acq: 14 Mar 2019 01:54

Tgt Ion:	129	Resp:	214762
Ion	Ratio	Lower	Upper
129	100		
127	77.6	55.2	102.4



Abundance Ion 129.00 (128.70 to 129.70): VU030033.D (-2283) (-)
Ion 127.00 (126.70 to 127.70): VU030033.D (-2283) (-)

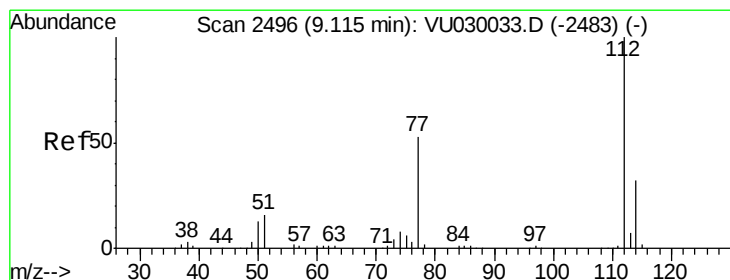
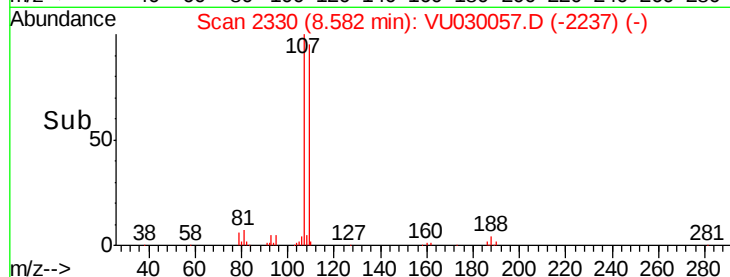
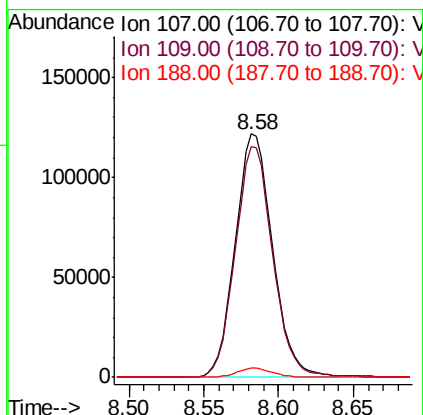
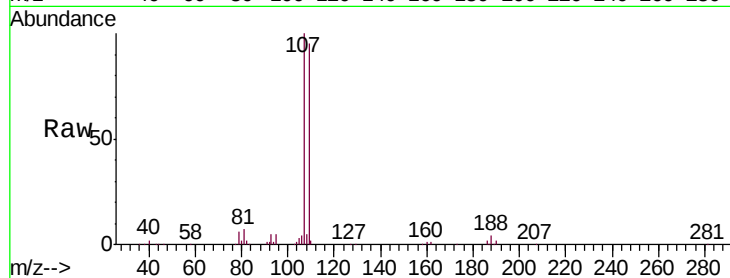




#50
1,2-Dibromoethane
Concen: 51.212 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU030057.D
Acq: 14 Mar 2019 01:54

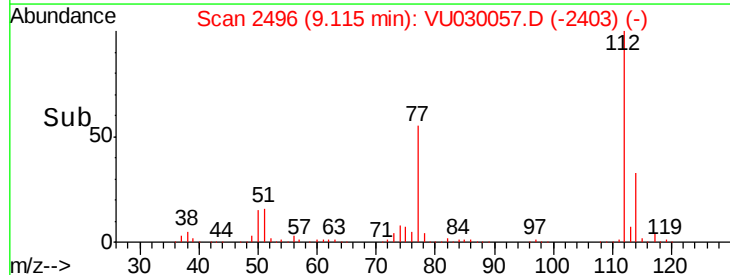
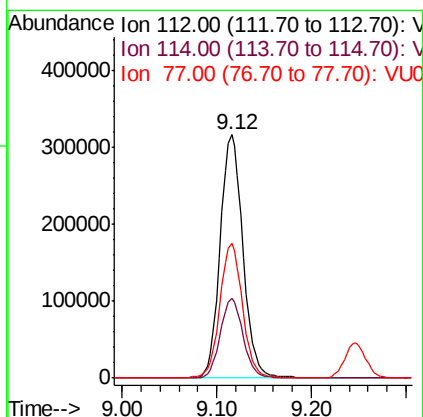
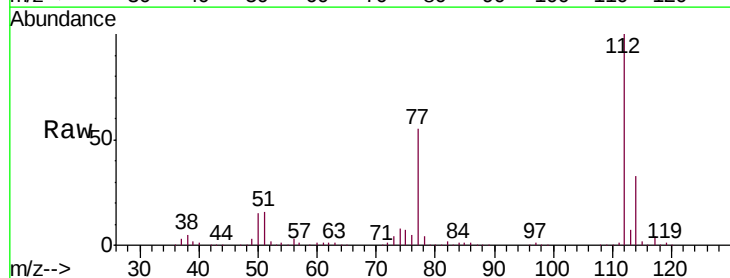
Instrument :
MSVOA_U
ClientSampleId :
VSTD05034

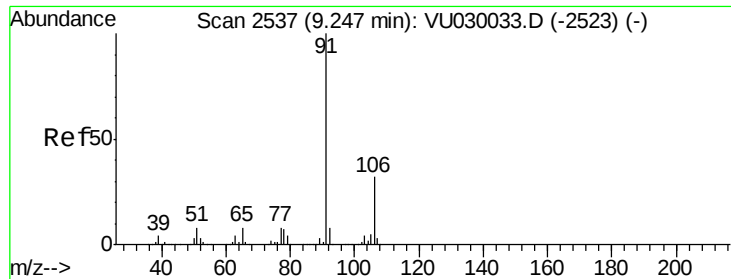
Tgt Ion:107 Resp: 211702
Ion Ratio Lower Upper
107 100
109 94.7 67.8 126.0
188 3.9 3.2 4.8



#51
Chlorobenzene
Concen: 50.606 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU030057.D
Acq: 14 Mar 2019 01:54

Tgt Ion:112 Resp: 528855
Ion Ratio Lower Upper
112 100
114 32.7 22.5 41.9
77 55.3 44.6 66.8





#52

Ethylbenzene

Concen: 51.576 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

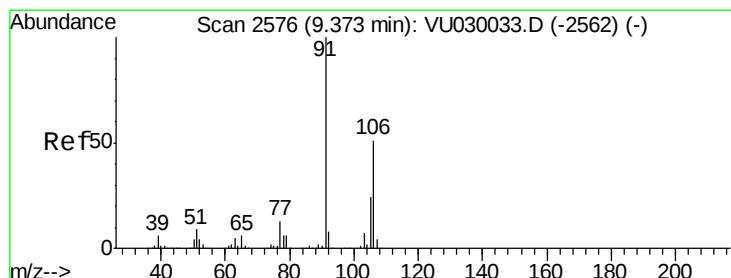
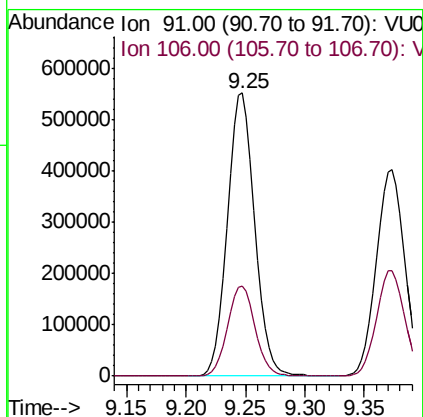
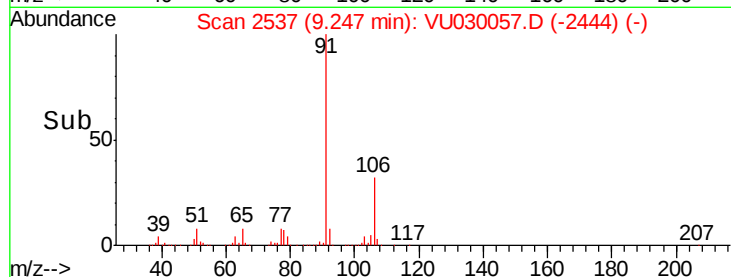
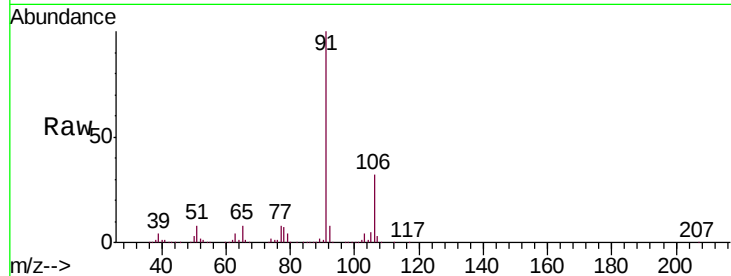
VSTD05034

Tgt Ion: 91 Resp: 880111

Ion Ratio Lower Upper

91 100

106 32.0 22.5 41.9



#53

m,p-Xylene

Concen: 51.824 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030057.D

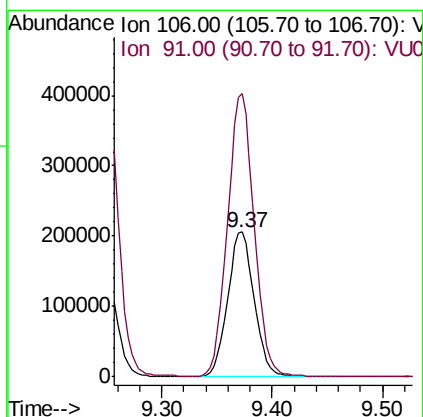
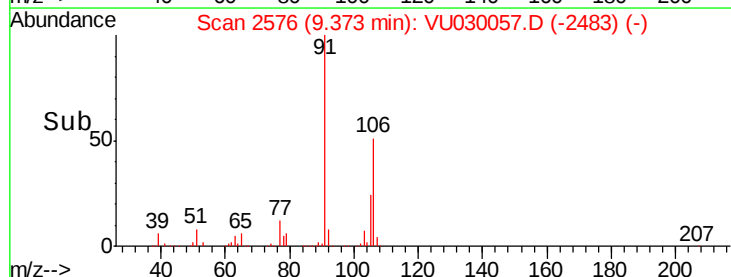
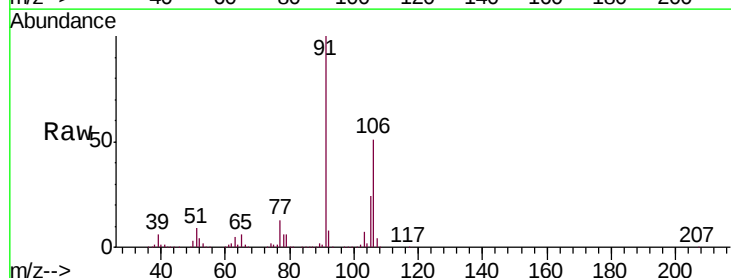
Acq: 14 Mar 2019 01:54

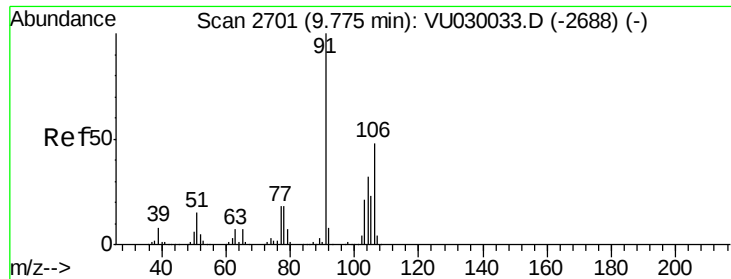
Tgt Ion: 106 Resp: 342149

Ion Ratio Lower Upper

106 100

91 195.5 135.1 250.9





#54

o-xylene

Concen: 52.571 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

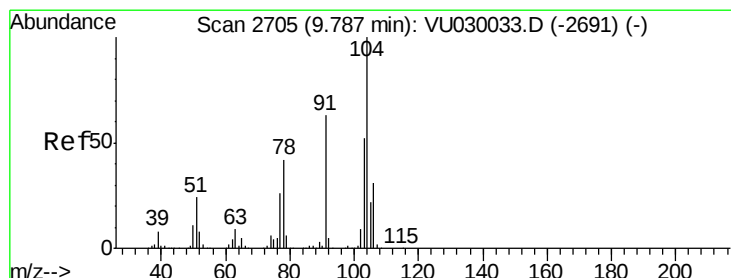
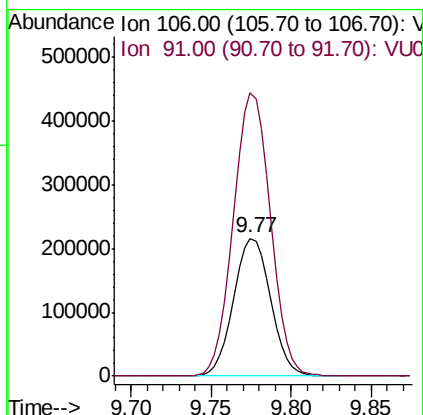
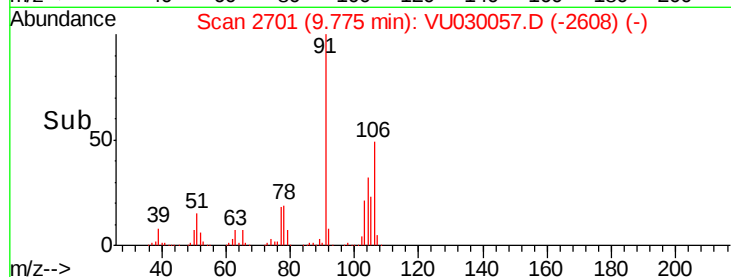
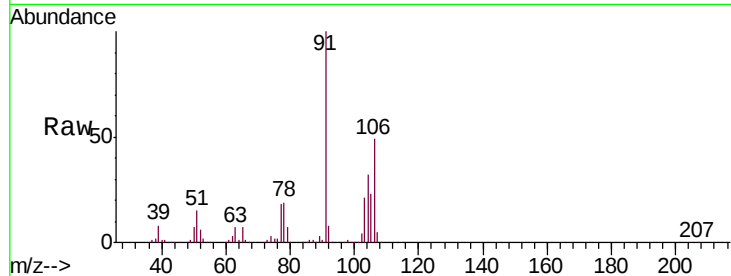
VSTD05034

Tgt Ion:106 Resp: 340908

Ion Ratio Lower Upper

106 100

91 205.2 144.5 268.4



#55

Styrene

Concen: 52.557 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU030057.D

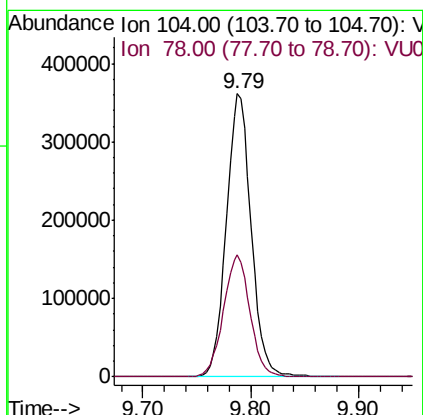
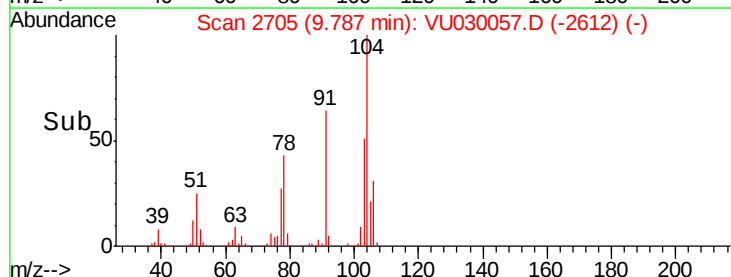
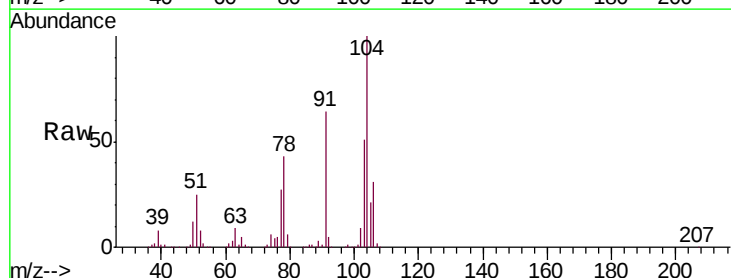
Acq: 14 Mar 2019 01:54

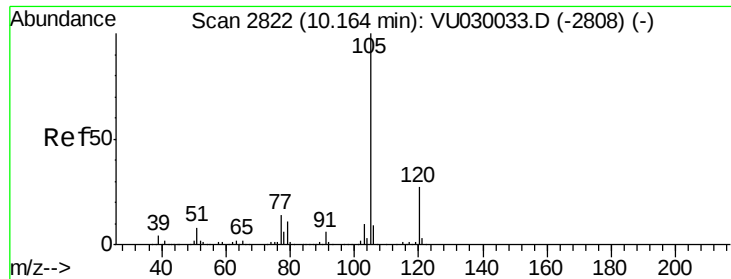
Tgt Ion:104 Resp: 580327

Ion Ratio Lower Upper

104 100

78 42.9 30.6 56.8





#56

Isopropylbenzene

Concen: 51.452 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

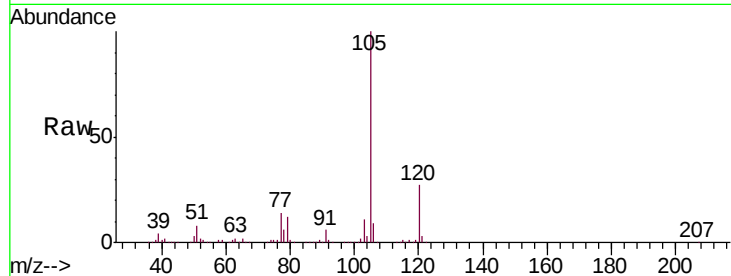
Tgt Ion: 105 Resp: 873501

Ion Ratio Lower Upper

105 100

120 27.2 21.7 32.5

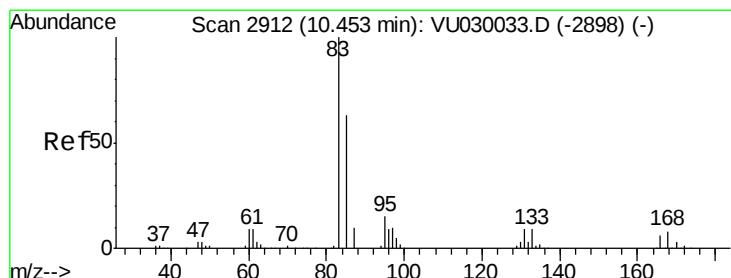
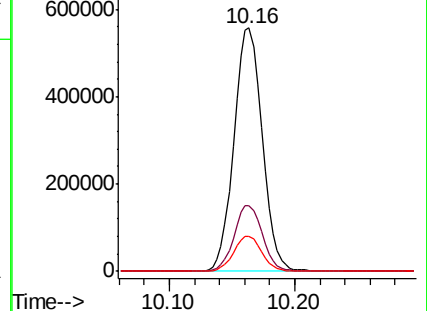
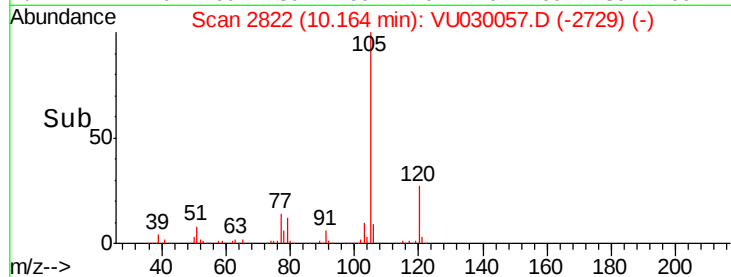
77 14.4 11.1 16.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 52.258 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

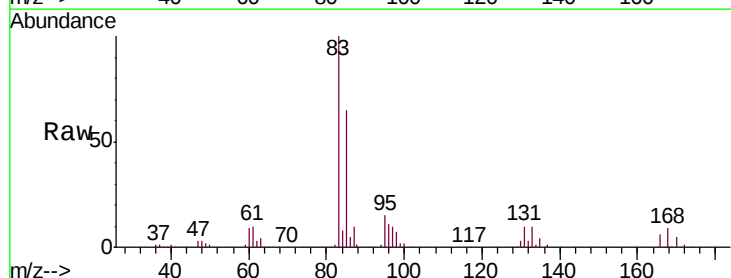
Tgt Ion: 83 Resp: 336378

Ion Ratio Lower Upper

83 100

85 64.6 45.9 85.3

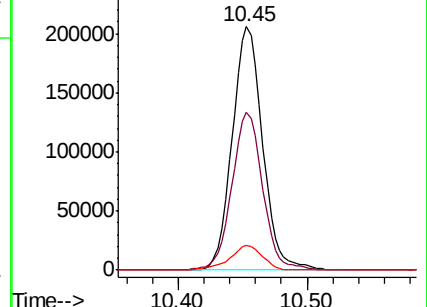
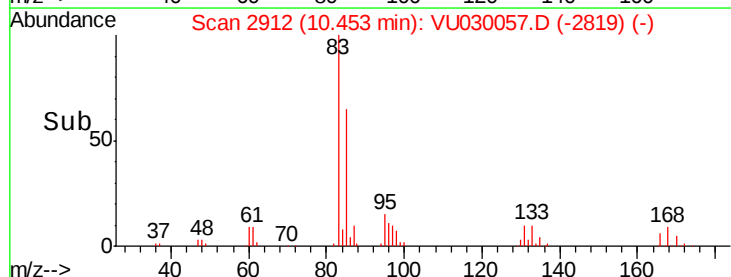
131 10.2 8.5 12.7

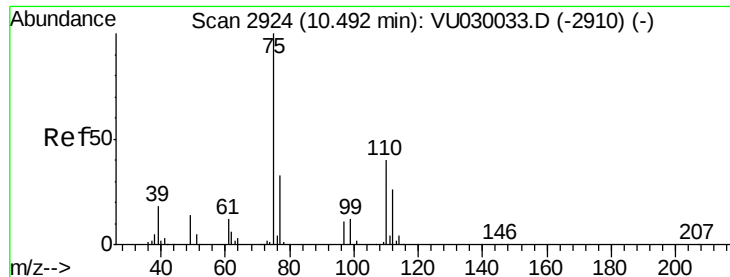


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

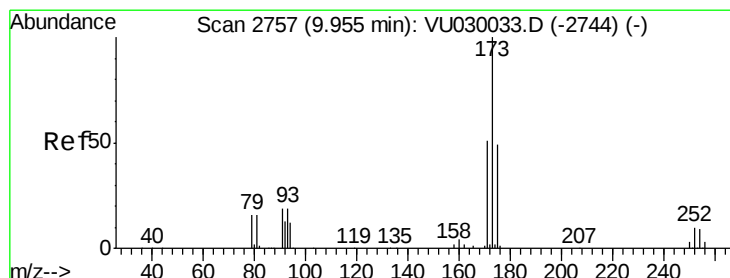
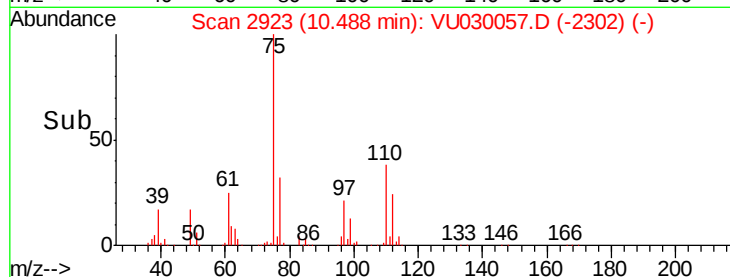
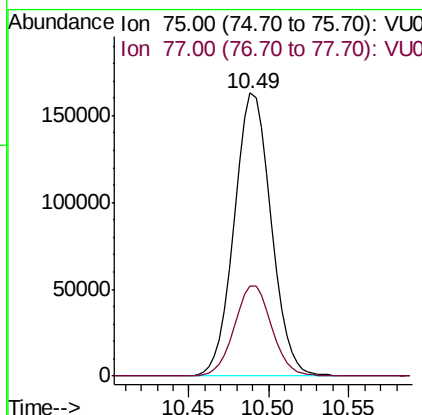
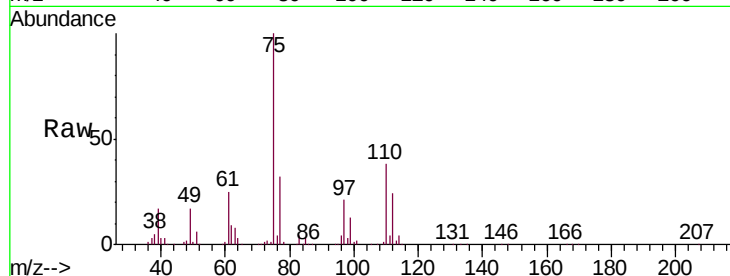




#59
 1,2,3-Trichloropropane
 Concen: 52.474 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. -0.00 min
 Lab File: VU030057.D
 Acq: 14 Mar 2019 01:54

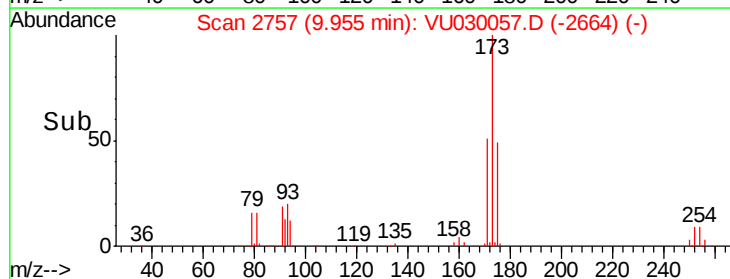
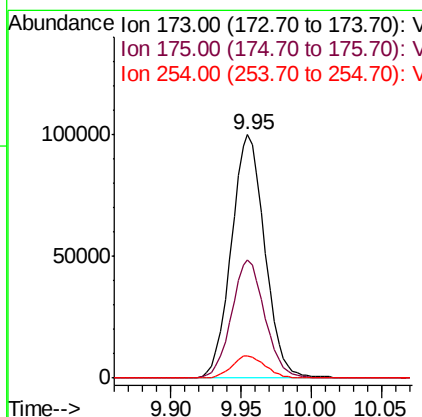
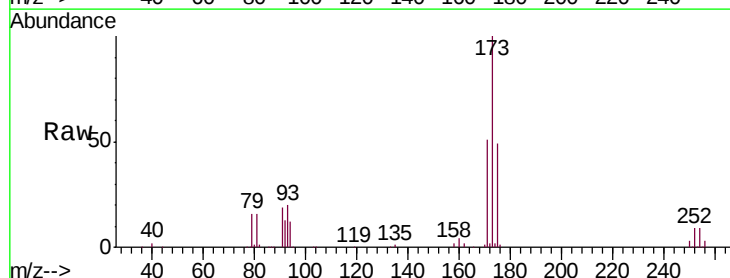
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

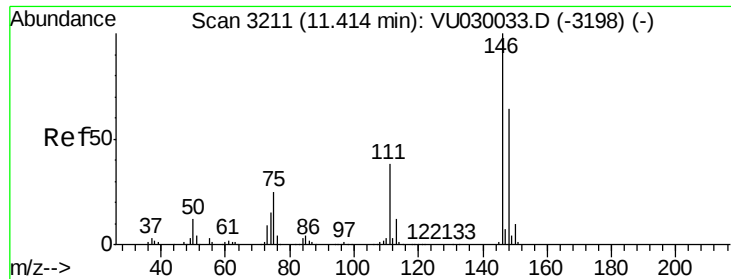
Tgt Ion: 75 Resp: 256281
 Ion Ratio Lower Upper
 75 100
 77 32.4 25.8 38.8



#61
 Bromoform
 Concen: 51.459 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU030057.D
 Acq: 14 Mar 2019 01:54

Tgt Ion: 173 Resp: 166089
 Ion Ratio Lower Upper
 173 100
 175 48.2 39.0 58.6
 254 9.2 7.4 11.0





#62

1,3-Dichlorobenzene

Concen: 50.021 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

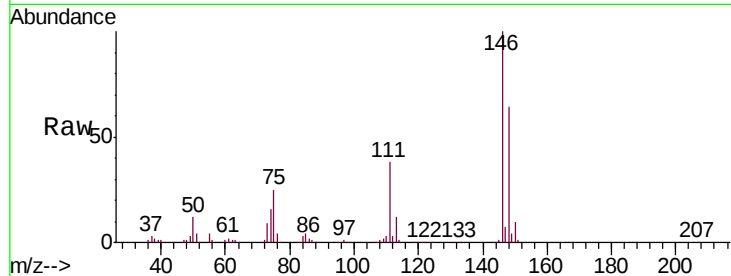
Tgt Ion:146 Resp: 418877

Ion Ratio Lower Upper

146 100

111 37.7 26.7 49.5

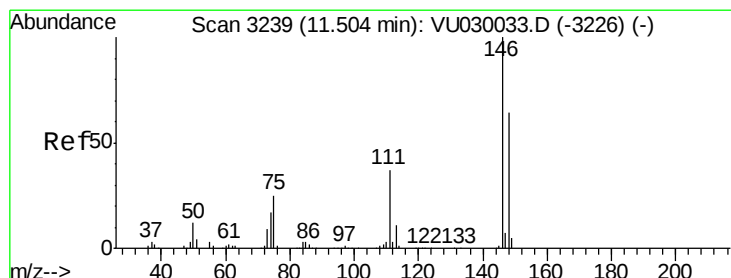
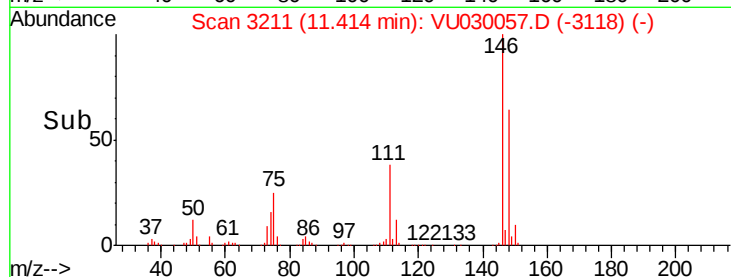
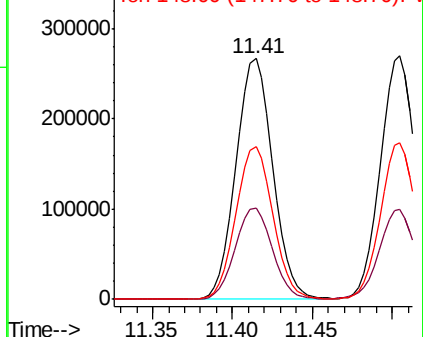
148 63.5 44.9 83.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 49.510 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

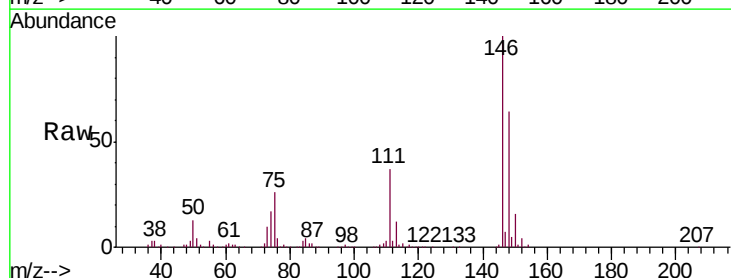
Tgt Ion:146 Resp: 421577

Ion Ratio Lower Upper

146 100

111 36.7 25.5 47.3

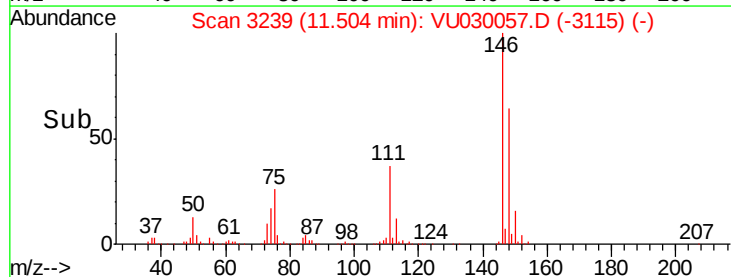
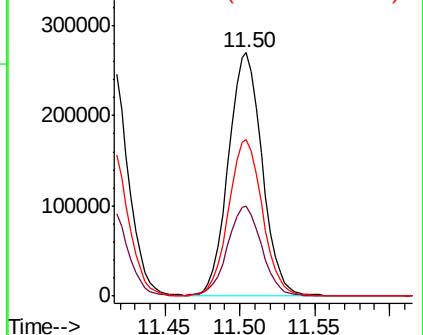
148 64.4 45.0 83.6

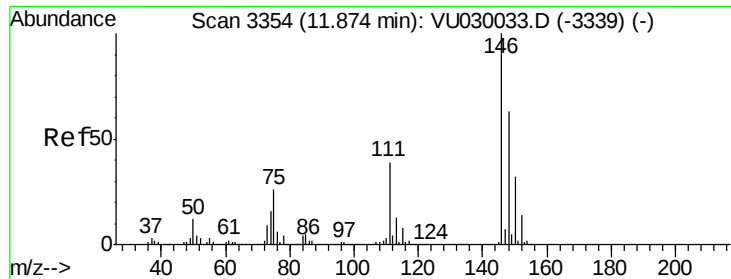


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

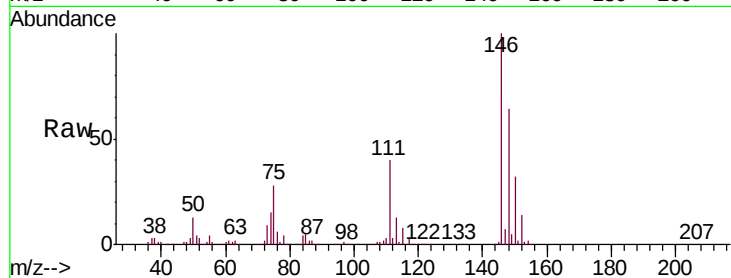




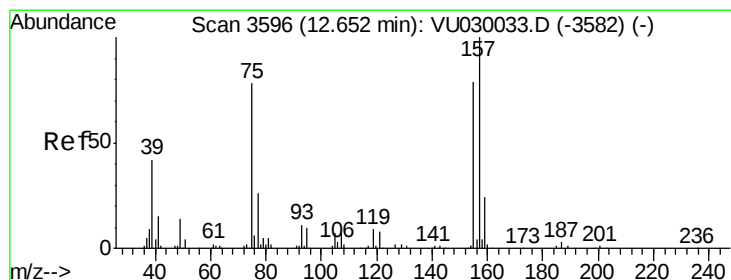
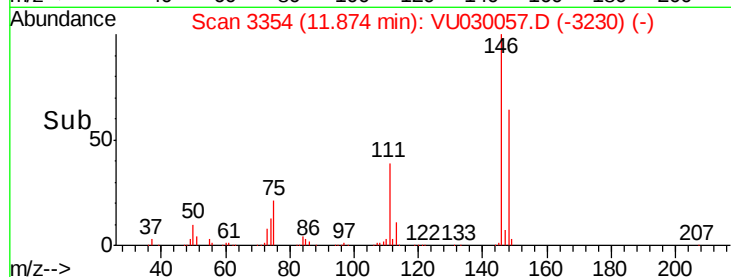
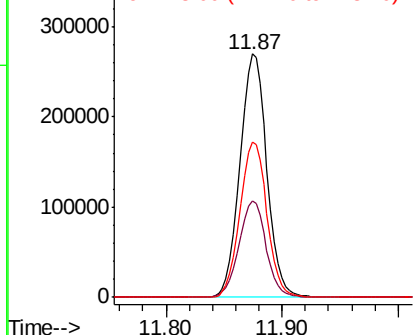
#65
 1,2-Dichlorobenzene
 Concen: 51.191 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU030057.D
 Acq: 14 Mar 2019 01:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

Tgt Ion:146 Resp: 431494
 Ion Ratio Lower Upper
 146 100
 111 39.8 30.9 46.3
 148 63.9 51.2 76.8

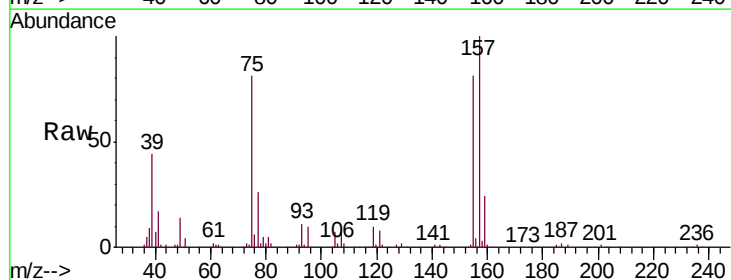


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

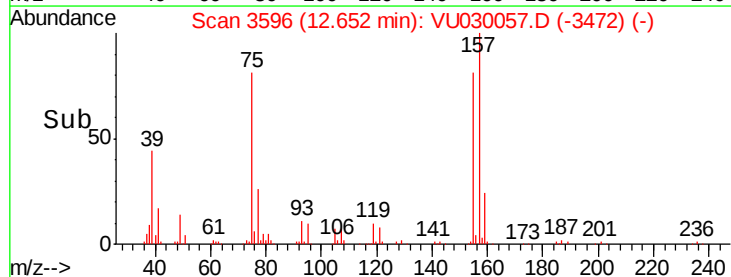
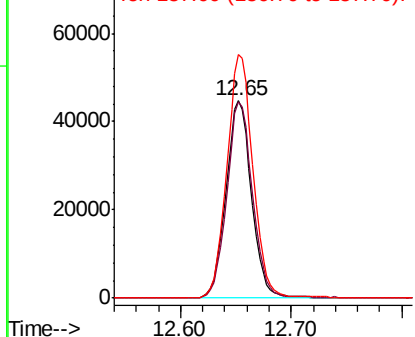


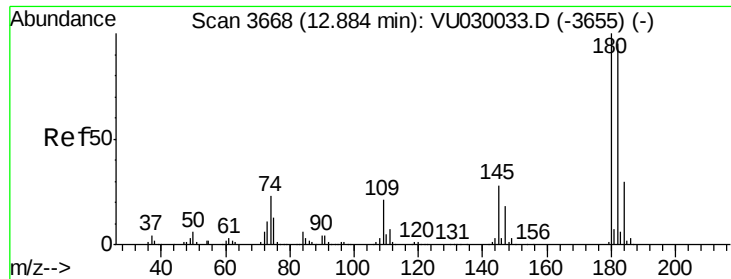
#66
 1,2-Dibromo-3-chloropropane
 Concen: 52.629 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU030057.D
 Acq: 14 Mar 2019 01:54

Tgt Ion: 75 Resp: 72088
 Ion Ratio Lower Upper
 75 100
 155 99.6 80.9 121.3
 157 123.5 104.6 156.8



Abundance Ion 75.00 (74.70 to 75.70): VUO
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

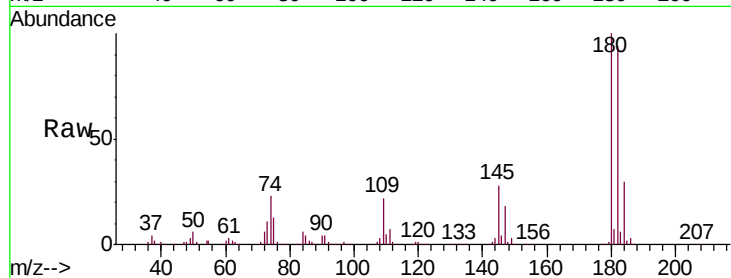




#67
 1,3,5-Trichlorobenzene
 Concen: 49.865 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU030057.D
 Acq: 14 Mar 2019 01:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05034

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.8	76.3	114.5
184	30.5	24.7	37.1
145	27.8	22.3	33.5



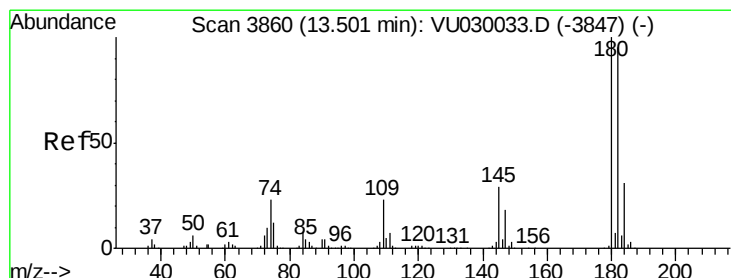
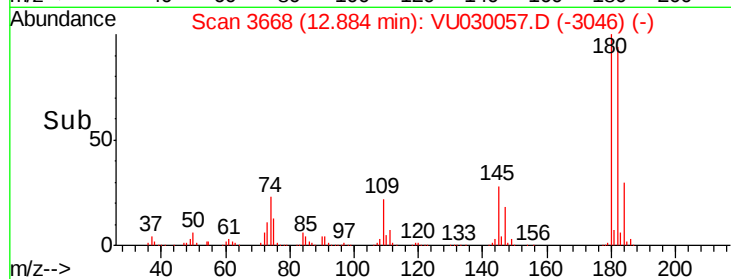
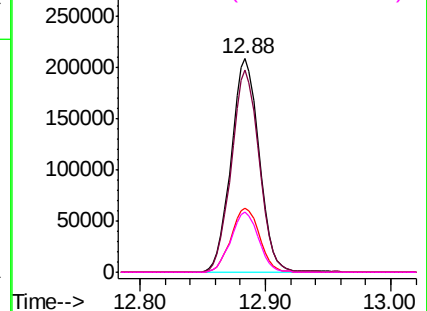
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

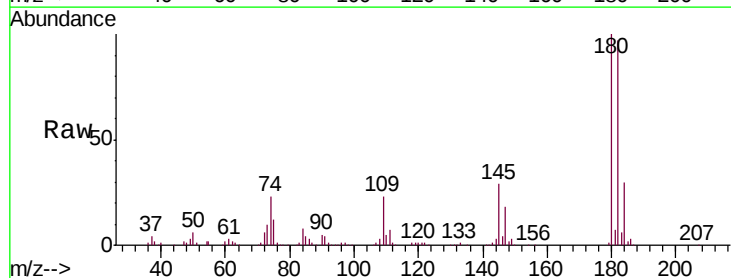
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 48.934 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU030057.D
 Acq: 14 Mar 2019 01:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.1	114.1
145	28.9	23.0	34.4

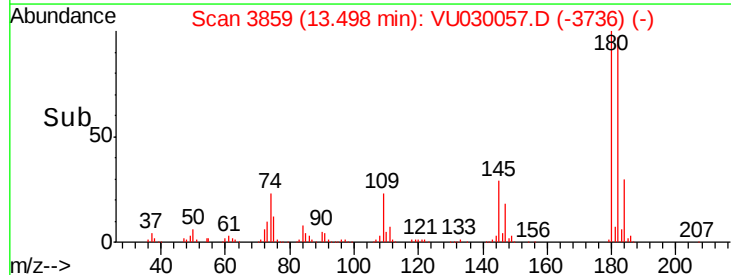
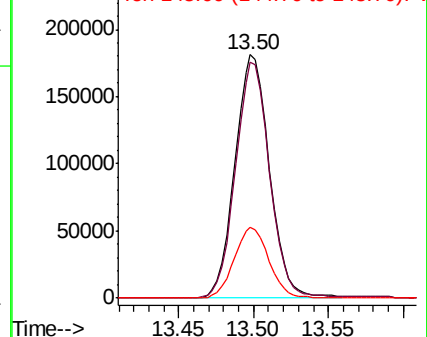


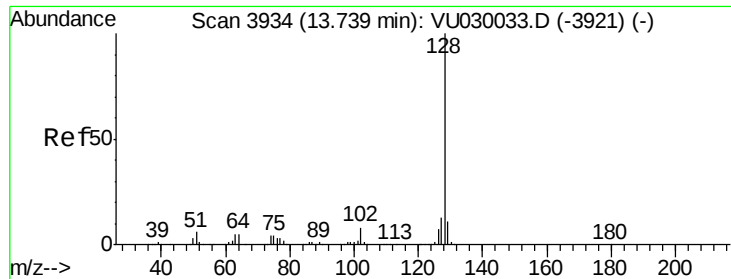
Abundance

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





#69

Naphthalene

Concen: 50.870 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD05034

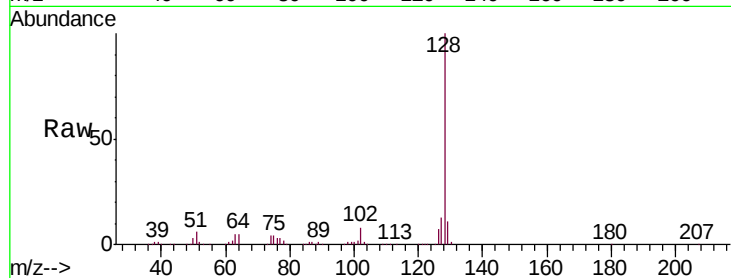
Tgt Ion:128 Resp: 982646

Ion Ratio Lower Upper

128 100

127 13.0 10.1 15.1

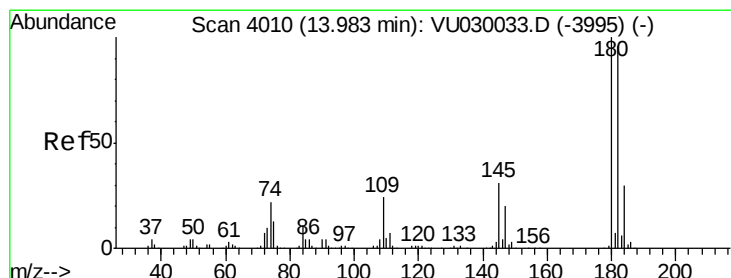
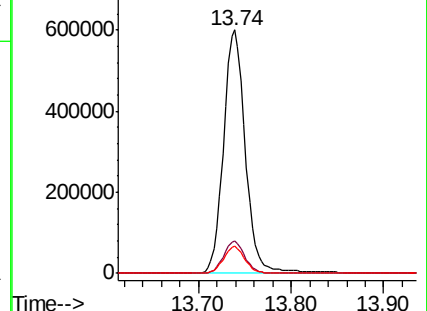
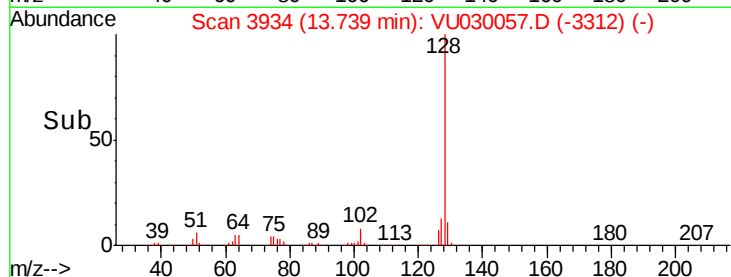
129 10.8 8.7 13.1



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: 49.906 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU030057.D

Acq: 14 Mar 2019 01:54

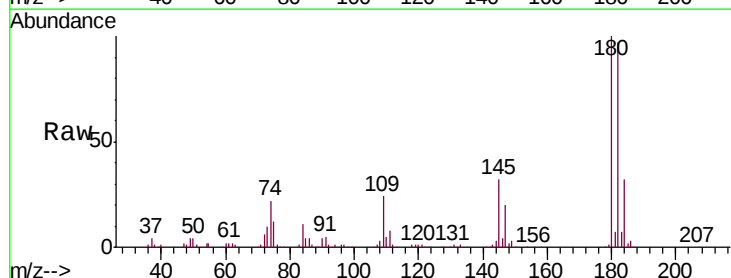
Tgt Ion:180 Resp: 308235

Ion Ratio Lower Upper

180 100

182 96.4 75.9 113.9

145 31.4 24.0 36.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

