

Data File : VU030076.D
Acq On : 14 Mar 2019 16:04
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

Quant Time: Mar 15 01:27:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031319WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 15 01:21:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	467131	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	457846	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	241841	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	131004	42.40	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.80%
7) Chloroethane-d5	1.68	69	114570	45.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.86%
11) 1,1-Dichloroethene-d2	2.27	63	257753	46.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.44%
21) 2-Butanone-d5	4.17	46	257449	111.21	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	111.21%
24) Chloroform-d	4.65	84	287921	51.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.90%
26) 1,2-Dichloroethane-d4	5.31	65	164698	51.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.88%
32) Benzene-d6	5.34	84	589035	49.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.96%
36) 1,2-Dichloropropane-d6	6.33	67	185214	51.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.70%
41) Toluene-d8	7.56	98	555742	50.36	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.72%
43) trans-1,3-Dichloropropene-	7.85	79	91826	52.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	105.10%
47) 2-Hexanone-d5	8.31	63	214391	106.22	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.22%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	295100	53.24	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	106.48%
64) 1,2-Dichlorobenzene-d4	11.85	152	239189	51.05	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.10%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	149167	50.537 ug/L	98
3) Chloromethane	1.33	50	169715	52.118 ug/L	100
5) Vinyl chloride	1.40	62	182401	51.098 ug/L	98
6) Bromomethane	1.62	94	113061	51.129 ug/L	98
8) Chloroethane	1.70	64	114579	48.974 ug/L	97
9) Trichlorofluoromethane	1.88	101	244331	51.038 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	158764	51.733 ug/L	99
12) 1,1-Dichloroethene	2.28	96	148304	50.652 ug/L	93
13) Acetone	2.32	43	220981	81.641 ug/L	100
14) Carbon disulfide	2.48	76	439582	48.440 ug/L	100
15) Methyl Acetate	2.61	43	184162	52.662 ug/L	99
16) Methylene chloride	2.70	84	175861	50.867 ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	163424	51.254 ug/L	99
18) Methyl tert-butyl Ether	3.00	73	499201	52.789 ug/L	100
19) 1,1-Dichloroethane	3.44	63	291659	53.276 ug/L	100
20) cis-1,2-Dichloroethene	4.22	96	188087	51.817 ug/L	96
22) 2-Butanone	4.26	43	290603	94.305 ug/L	100

Data File : VU030076.D
Acq On : 14 Mar 2019 16:04
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

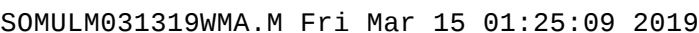
Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

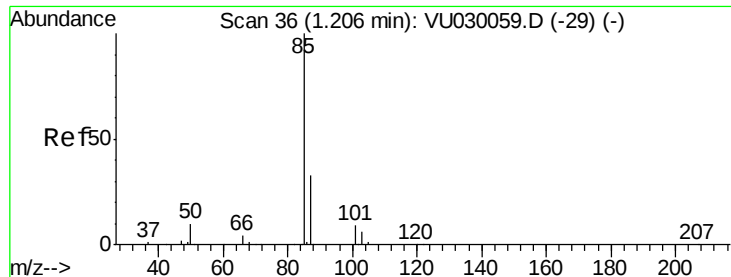
Quant Time: Mar 15 01:27:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031319WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 15 01:21:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	97878	52.055	ug/L	97
25) Chloroform	4.67	83	304870	53.059	ug/L	99
27) 1,2-Dichloroethane	5.40	62	217927	52.755	ug/L	98
29) Cyclohexane	4.99	56	252742	50.050	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	256450	51.308	ug/L	99
31) Carbon tetrachloride	5.13	117	226192	51.249	ug/L	99
33) Benzene	5.39	78	681331	52.004	ug/L	100
34) Trichloroethene	6.18	95	176617	51.436	ug/L	99
35) Methylcyclohexane	6.41	83	279813	50.253	ug/L	99
37) 1,2-Dichloropropane	6.43	63	183943	53.376	ug/L	99
38) Bromodichloromethane	6.76	83	227607	53.112	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	282247	52.629	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	478729	102.883	ug/L	100
42) Toluene	7.63	91	742786	52.145	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	260534	53.207	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	181745	52.734	ug/L	98
46) Tetrachloroethene	8.22	164	152273	50.674	ug/L	99
48) 2-Hexanone	8.36	43	394066	99.269	ug/L	99
49) Dibromochloromethane	8.47	129	203764	52.918	ug/L	99
50) 1,2-Dibromoethane	8.58	107	199534	52.525	ug/L	97
51) Chlorobenzene	9.12	112	500106	52.076	ug/L	100
52) Ethylbenzene	9.25	91	810851	51.708	ug/L	99
53) m,p-Xylene	9.37	106	315243	51.960	ug/L	98
54) o-xylene	9.77	106	309745	51.977	ug/L	97
55) Styrene	9.79	104	535368	52.761	ug/L	98
56) Isopropylbenzene	10.16	105	813508	52.144	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	309091	52.253	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	232556	51.816	ug/L	100
61) Bromoform	9.95	173	159837	53.097	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	395077	50.585	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	415156	52.276	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	416815	53.020	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	68052	53.269	ug/L	95
67) 1,3,5-Trichlorobenzene	12.88	180	315211	51.998	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	285688	51.521	ug/L	99
69) Naphthalene	13.74	128	898631	49.879	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	297496	51.644	ug/L	100

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

Quant Time: Mar 15 01:27:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031319WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 15 01:21:27 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 50.537 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

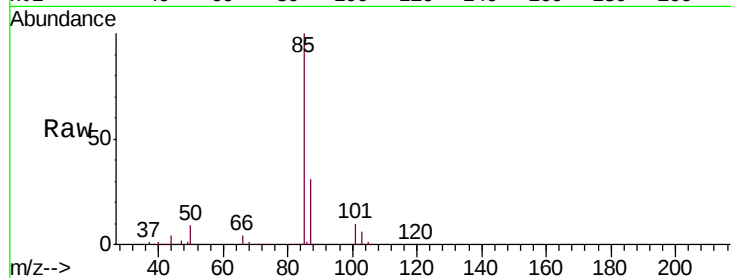
VSTD05036

Tgt Ion: 85 Resp: 149167

Ion Ratio Lower Upper

85 100

87 31.9 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VU030059.D (-29) (-)

Ion 87.00 (86.70 to 87.70): VU030059.D (-29) (-)

1.21

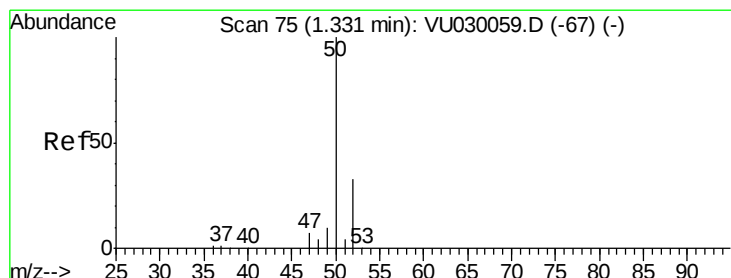
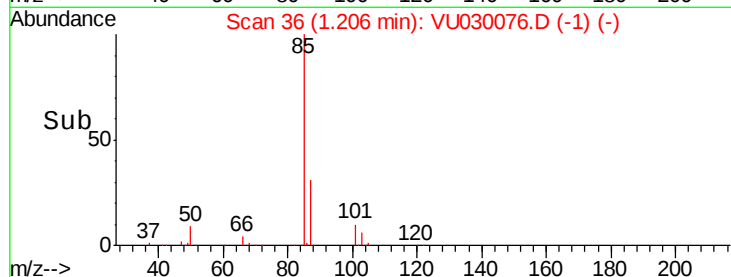
150000

100000

50000

0

Time--> 1.15 1.20 1.25



#3

Chloromethane

Concen: 52.118 ug/L

RT: 1.33 min Scan# 75

Delta R.T. -0.00 min

Lab File: VU030076.D

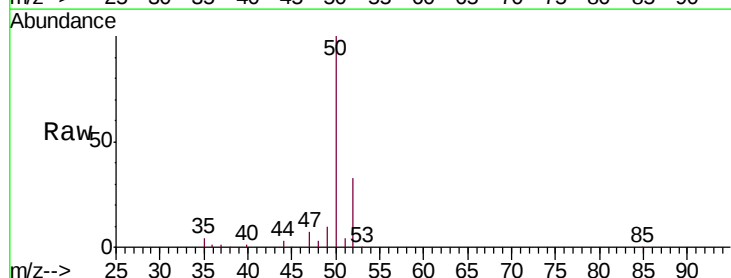
Acq: 14 Mar 2019 16:04

Tgt Ion: 50 Resp: 169715

Ion Ratio Lower Upper

50 100

52 33.2 23.4 43.6



Abundance Ion 50.00 (49.70 to 50.70): VU030059.D (-67) (-)

Ion 52.00 (51.70 to 52.70): VU030059.D (-67) (-)

1.33

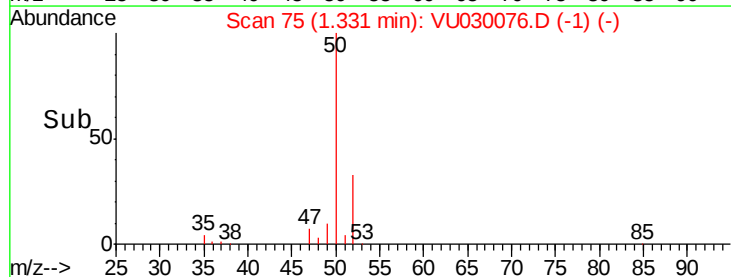
150000

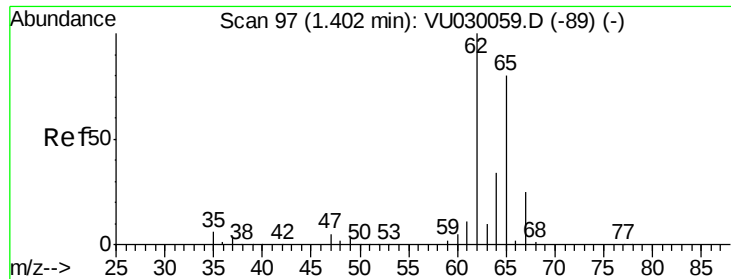
100000

50000

0

Time--> 1.30 1.35 1.40





#5

Vinyl chloride

Concen: 51.098 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

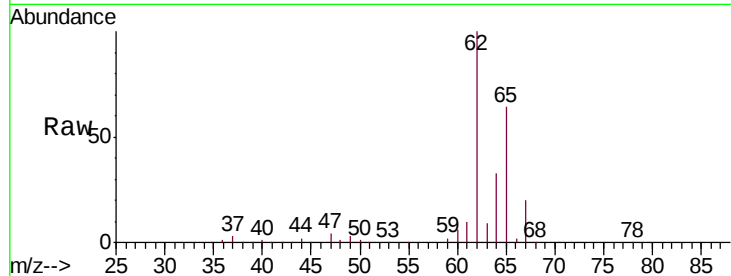
VSTD05036

Tgt Ion: 62 Resp: 182401

Ion Ratio Lower Upper

62 100

64 32.5 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VU030059.D (-89) (-)

Ion 64.00 (63.70 to 64.70): VU030059.D (-89) (-)

1.40

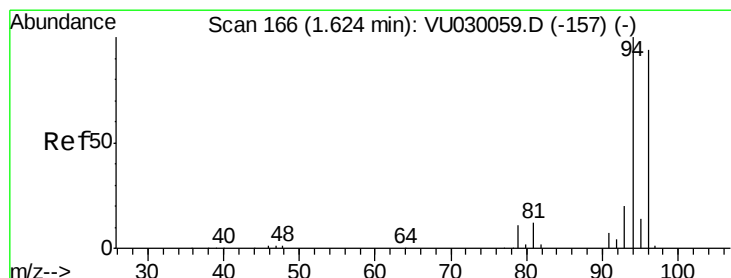
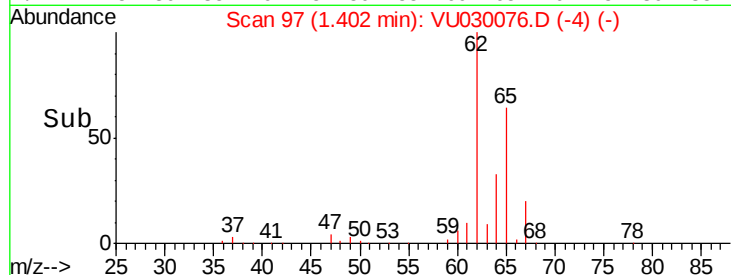
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 51.129 ug/L

RT: 1.62 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU030076.D

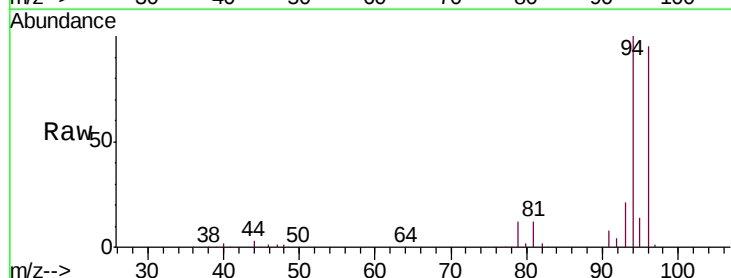
Acq: 14 Mar 2019 16:04

Tgt Ion: 94 Resp: 113061

Ion Ratio Lower Upper

94 100

96 95.2 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VU030059.D (-157) (-)

Ion 96.00 (95.70 to 96.70): VU030059.D (-157) (-)

1.62

100000

80000

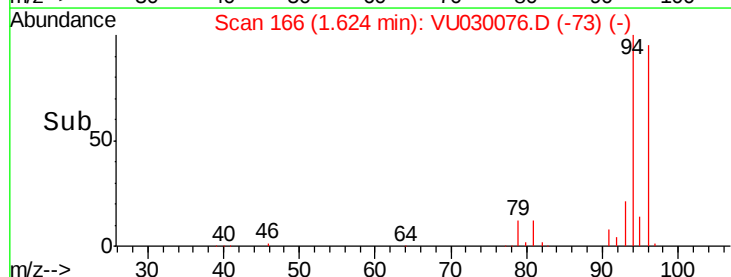
60000

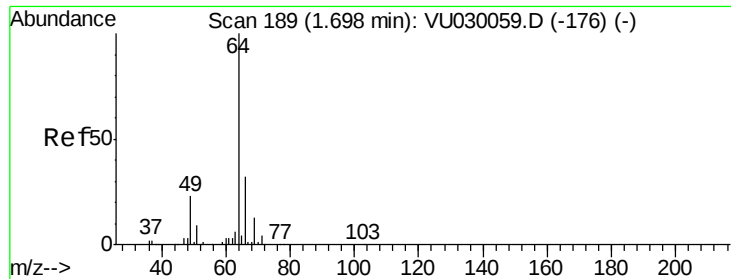
40000

20000

0

Time-->





#8

Chloroethane

Concen: 48.974 ug/L

RT: 1.70 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

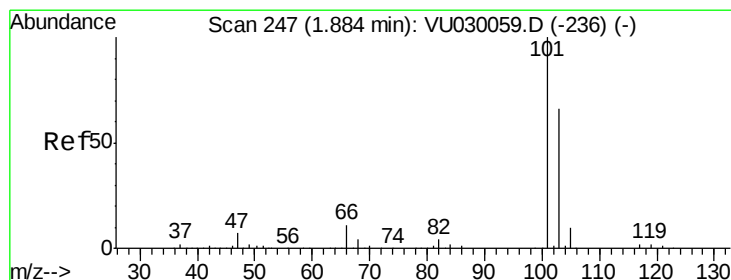
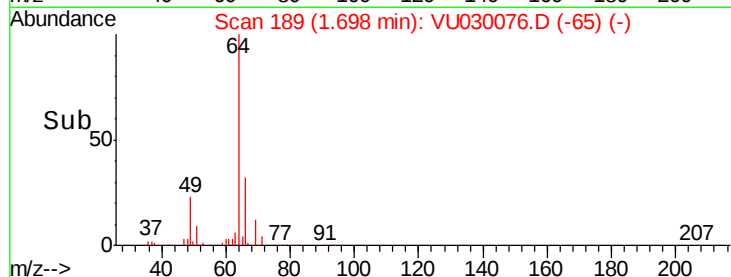
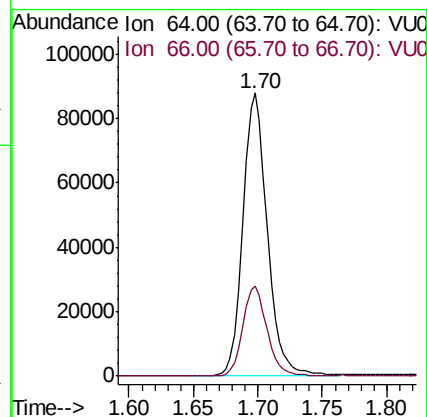
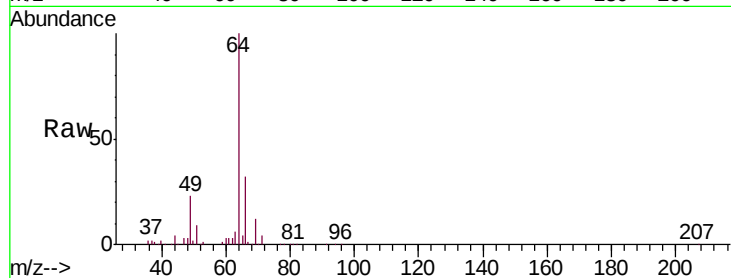
VSTD05036

Tgt Ion: 64 Resp: 114579

Ion Ratio Lower Upper

64 100

66 31.9 21.3 39.6



#9

Trichlorofluoromethane

Concen: 51.038 ug/L

RT: 1.88 min Scan# 247

Delta R.T. -0.00 min

Lab File: VU030076.D

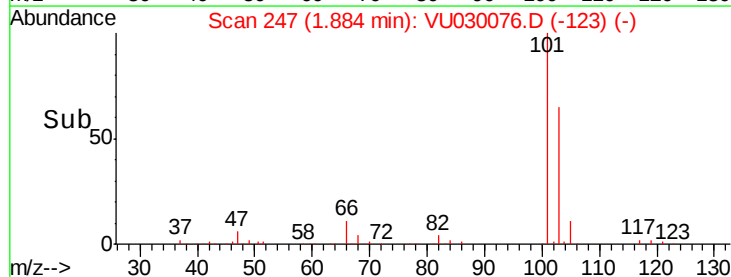
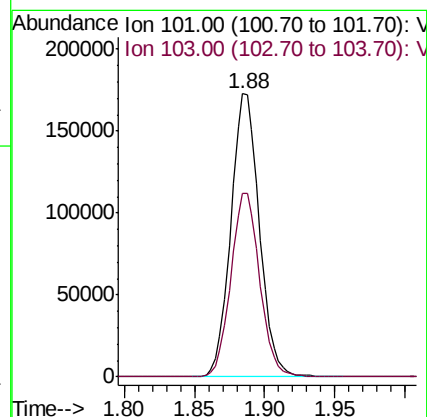
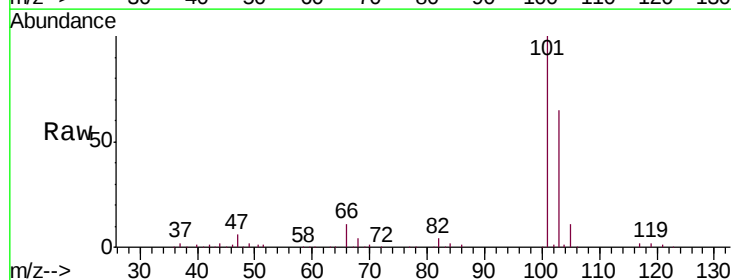
Acq: 14 Mar 2019 16:04

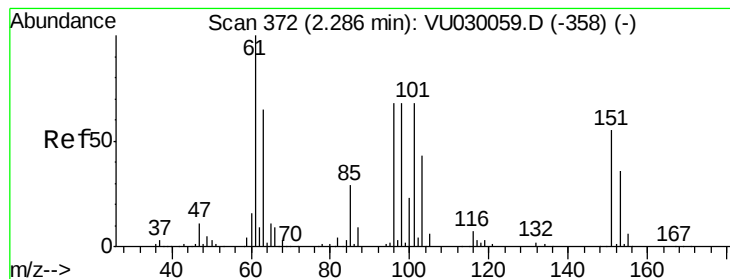
Tgt Ion: 101 Resp: 244331

Ion Ratio Lower Upper

101 100

103 65.6 52.5 78.7





#10

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

Concen: 51.733 ug/L

RT: 2.29 min Scan# 372

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

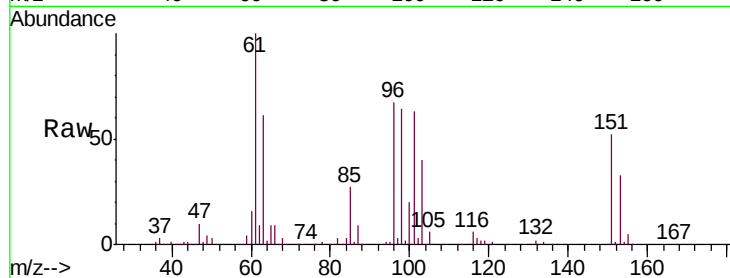
Tgt Ion: 101 Resp: 158764

Ion Ratio Lower Upper

101 100

85 40.8 33.0 49.4

151 82.0 66.1 99.1



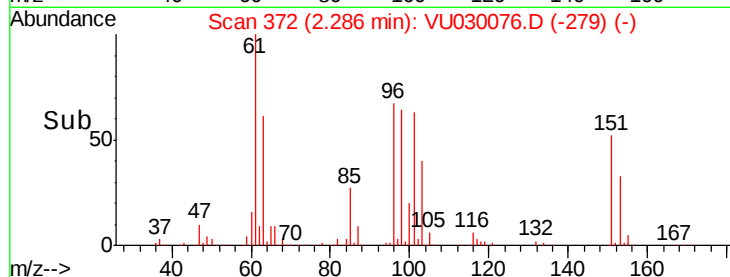
Abundance Ion 101.00 (100.70 to 101.70): VU030059.D (-358) (-)

Ion 85.00 (84.70 to 85.70): VU030059.D (-358) (-)

Ion 151.00 (150.70 to 151.70): VU030059.D (-358) (-)

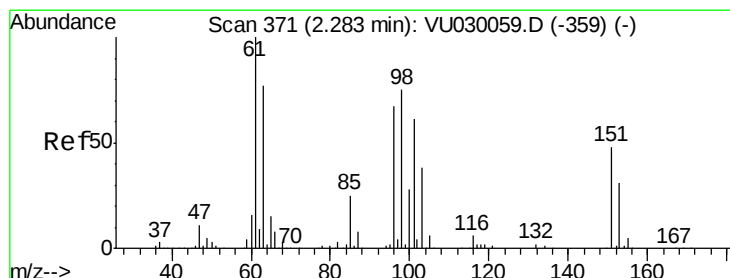
2.29

Time-->



2.29

Time-->



#12

1,1-Dichloroethene

Concen: 50.652 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

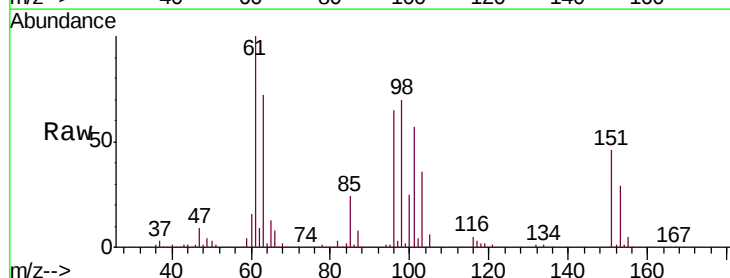
Tgt Ion: 96 Resp: 148304

Ion Ratio Lower Upper

96 100

61 153.2 110.4 205.0

63 110.5 86.5 160.7



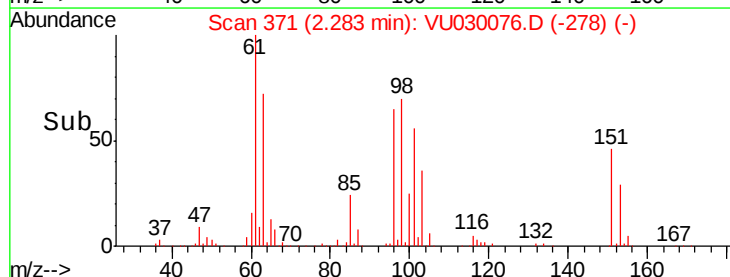
Abundance Ion 96.00 (95.70 to 96.70): VU030059.D (-359) (-)

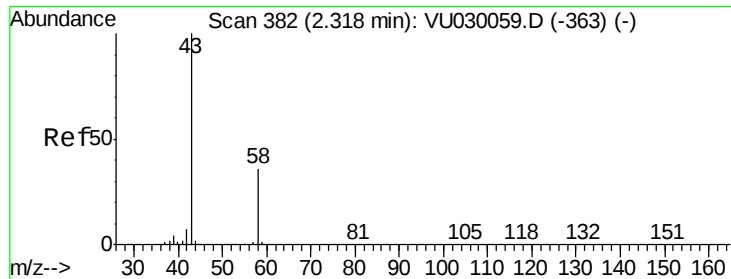
Ion 61.00 (60.70 to 61.70): VU030059.D (-359) (-)

Ion 63.00 (62.70 to 63.70): VU030059.D (-359) (-)

2.28

Time-->





#13

Acetone

Concen: 81.641 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

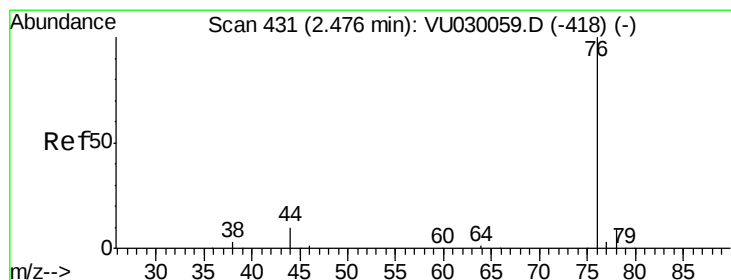
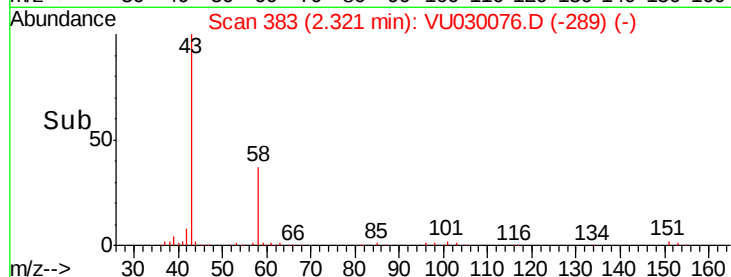
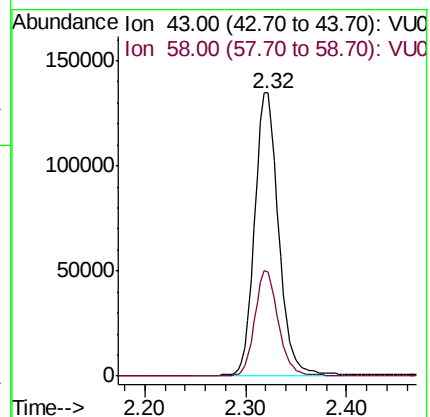
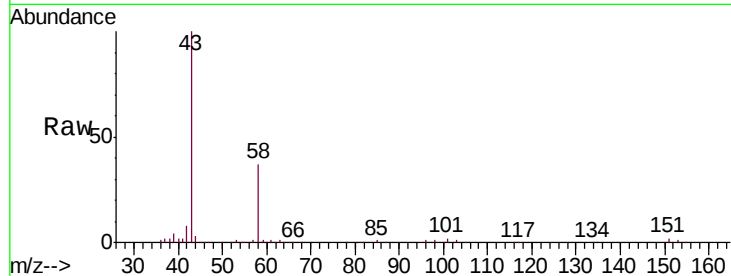
VSTD05036

Tgt Ion: 43 Resp: 220981

Ion Ratio Lower Upper

43 100

58 36.6 0.0 73.0



#14

Carbon disulfide

Concen: 48.440 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.00 min

Lab File: VU030076.D

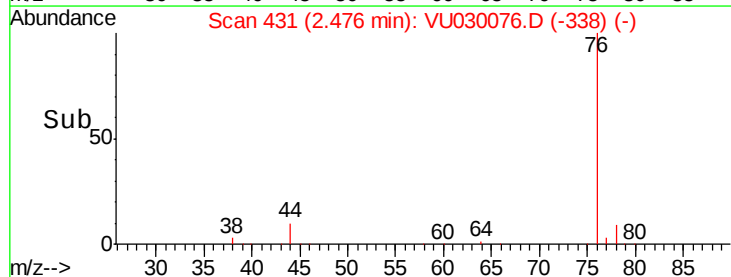
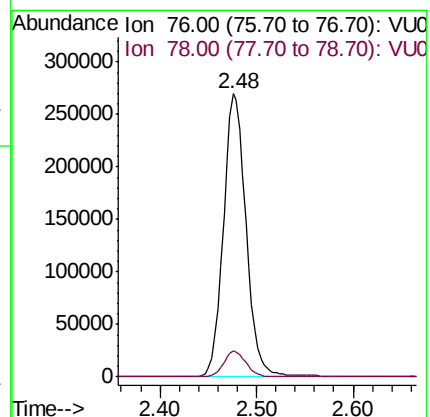
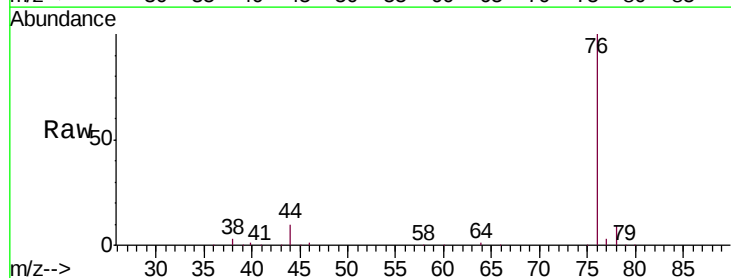
Acq: 14 Mar 2019 16:04

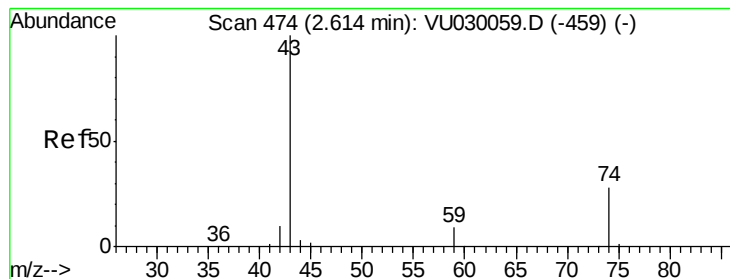
Tgt Ion: 76 Resp: 439582

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9





#15

Methyl Acetate

Concen: 52.662 ug/L

RT: 2.61 min Scan# 474

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

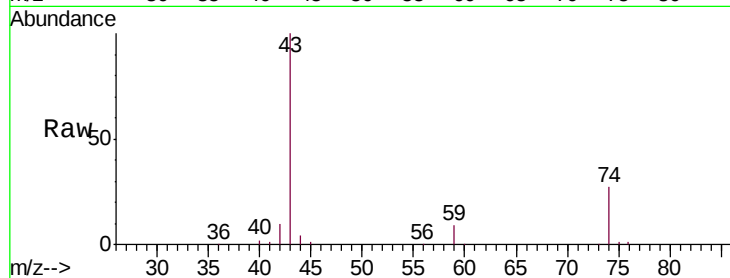
VSTD05036

Tgt Ion: 43 Resp: 184162

Ion Ratio Lower Upper

43 100

74 26.6 21.9 32.9



Abundance Ion 43.00 (42.70 to 43.70): VU030059.D (-459) (-)

Ion 74.00 (73.70 to 74.70): VU030059.D (-459) (-)

2.61

120000

100000

80000

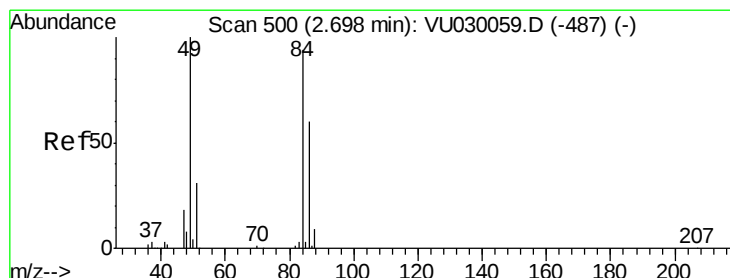
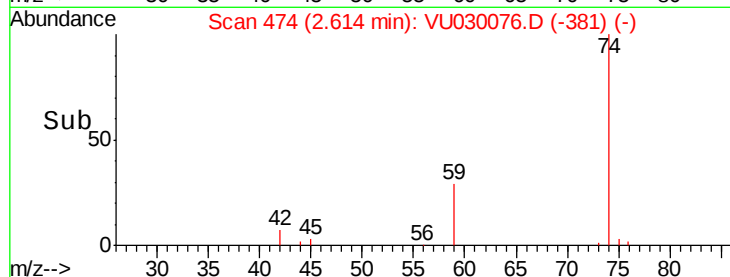
60000

40000

20000

0

Time-->



#16

Methylene chloride

Concen: 50.867 ug/L

RT: 2.70 min Scan# 501

Delta R.T. 0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

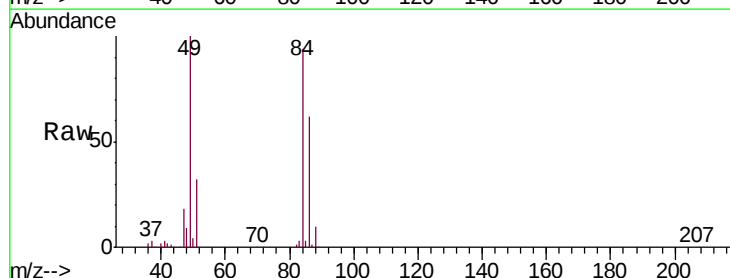
Tgt Ion: 84 Resp: 175861

Ion Ratio Lower Upper

84 100

86 66.3 45.2 84.0

49 106.7 73.6 136.6



Abundance Ion 84.00 (83.70 to 84.70): VU030059.D (-487) (-)

Ion 86.00 (85.70 to 86.70): VU030059.D (-487) (-)

Ion 49.00 (48.70 to 49.70): VU030059.D (-487) (-)

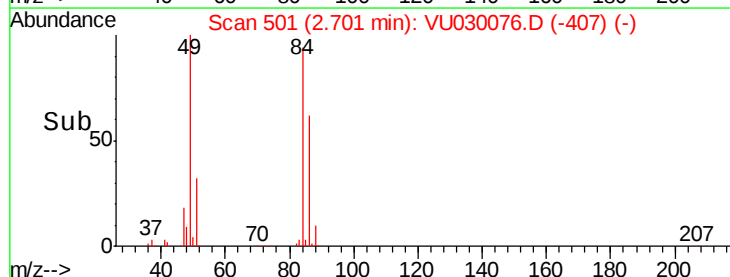
2.70

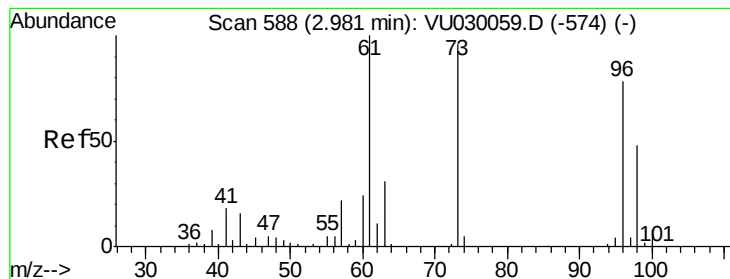
100000

50000

0

Time-->





#17

trans-1,2-Dichloroethene

Concen: 51.254 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampled :

VSTD05036

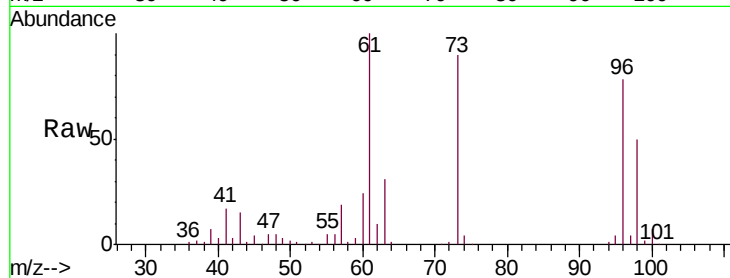
Tgt Ion: 96 Resp: 163424

Ion Ratio Lower Upper

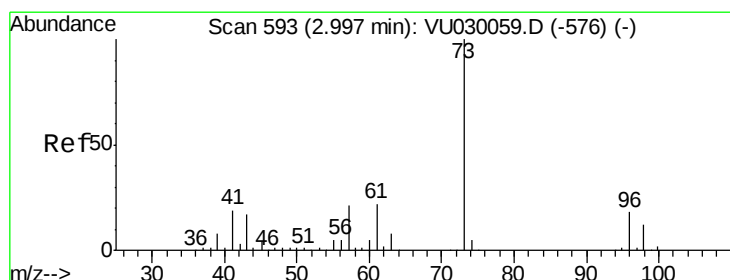
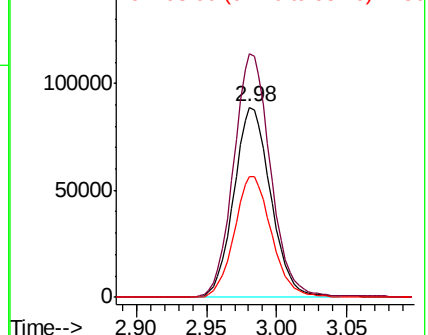
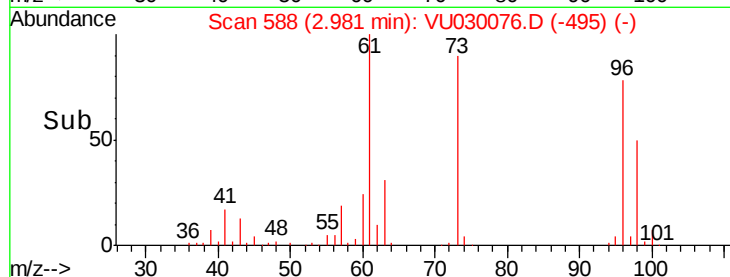
96 100

61 128.0 89.4 166.0

98 63.7 43.3 80.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 52.789 ug/L

RT: 3.00 min Scan# 594

Delta R.T. 0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

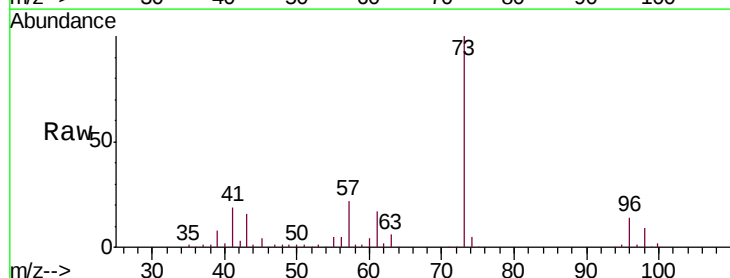
Tgt Ion: 73 Resp: 499201

Ion Ratio Lower Upper

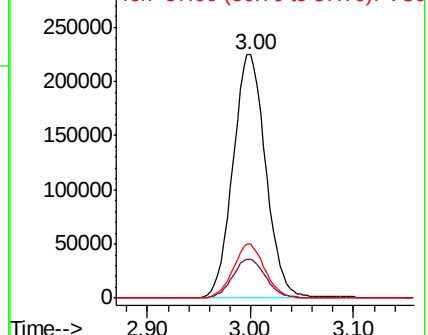
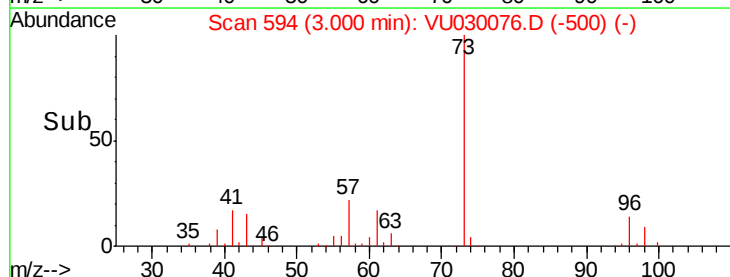
73 100

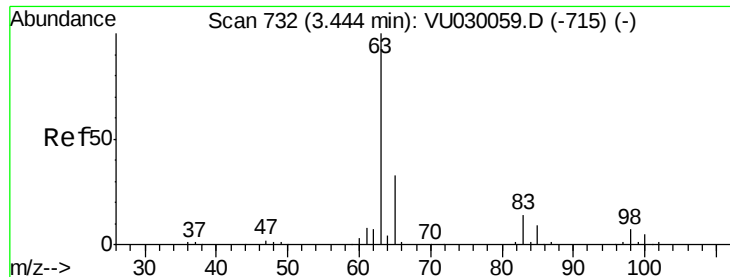
43 16.0 13.1 19.7

57 21.4 17.1 25.7



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

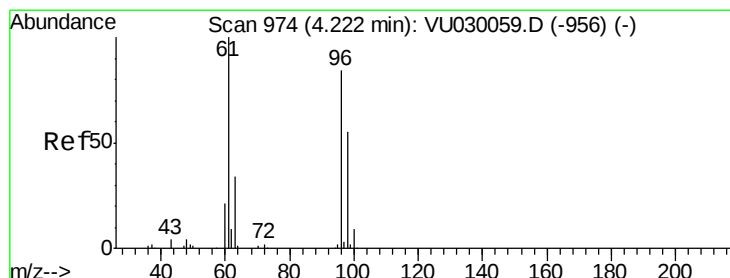
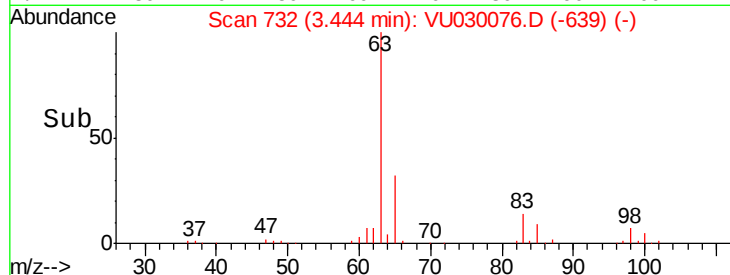
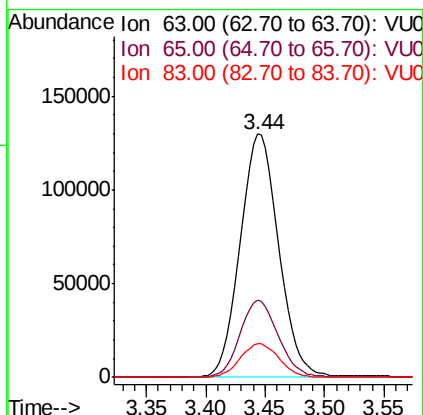
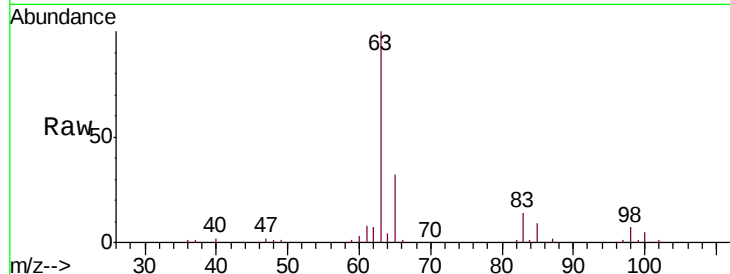




#19
 1,1-Dichloroethane
 Concen: 53.276 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. -0.00 min
 Lab File: VU030076.D
 Acq: 14 Mar 2019 16:04

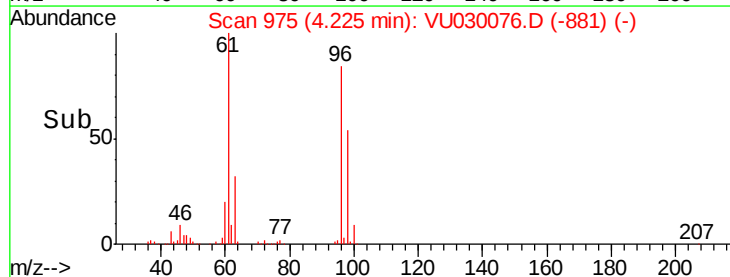
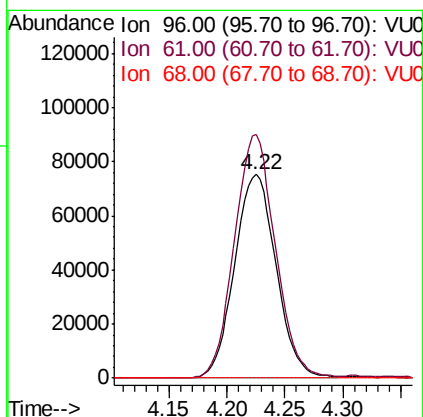
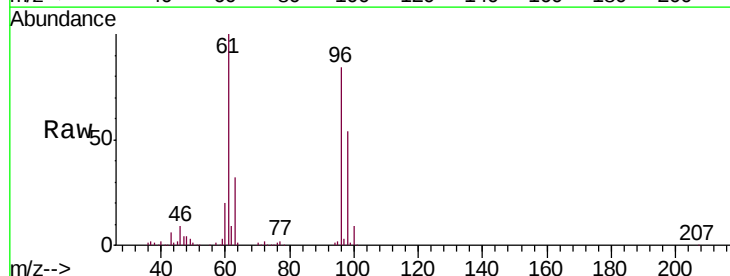
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

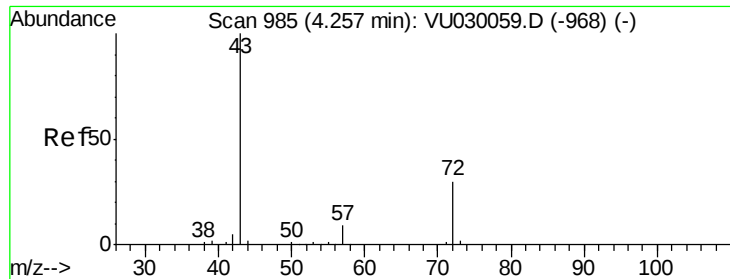
Tgt Ion: 63 Resp: 291659
 Ion Ratio Lower Upper
 63 100
 65 31.5 22.0 41.0
 83 13.8 9.7 18.1



#20
 cis-1,2-Dichloroethene
 Concen: 51.817 ug/L
 RT: 4.22 min Scan# 975
 Delta R.T. 0.00 min
 Lab File: VU030076.D
 Acq: 14 Mar 2019 16:04

Tgt Ion: 96 Resp: 188087
 Ion Ratio Lower Upper
 96 100
 61 119.6 80.8 150.2
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 94.305 ug/L

RT: 4.26 min Scan# 986

Delta R.T. 0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

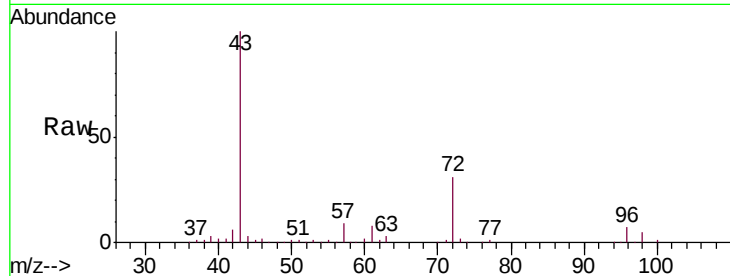
VSTD05036

Tgt Ion: 43 Resp: 290603

Ion Ratio Lower Upper

43 100

72 30.7 15.3 45.9



Abundance Ion 43.00 (42.70 to 43.70): VU030059.D (-968) (-)

Ion 72.00 (71.70 to 72.70): VU030059.D (-968) (-)

4.26

120000

100000

80000

60000

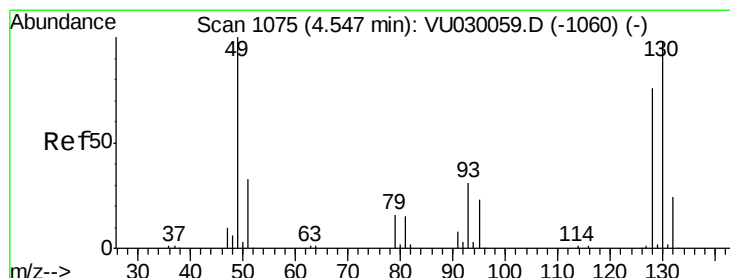
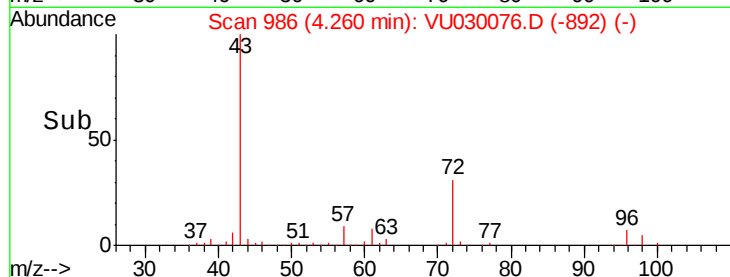
40000

20000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 52.055 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Tgt Ion: 128 Resp: 97878

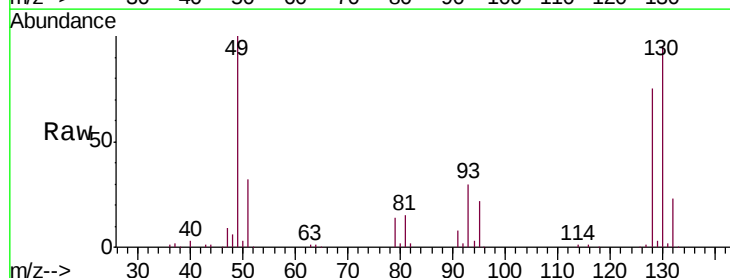
Ion Ratio Lower Upper

128 100

49 132.5 94.5 175.5

130 126.1 91.4 169.8

51 42.3 34.2 51.2



Abundance Ion 128.00 (127.70 to 128.70): VU030059.D (-1060) (-)

Ion 49.00 (48.70 to 49.70): VU030059.D (-1060) (-)

Ion 130.00 (129.70 to 130.70): VU030059.D (-1060) (-)

Ion 51.00 (50.70 to 51.70): VU030059.D (-1060) (-)

80000

60000

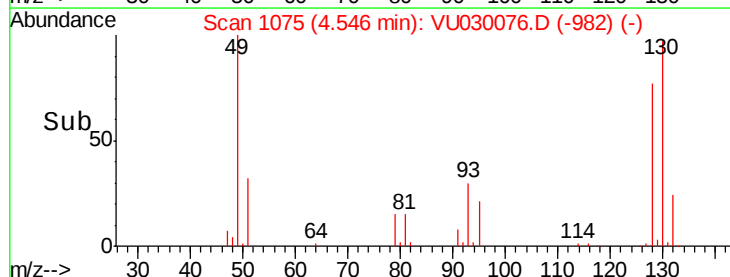
40000

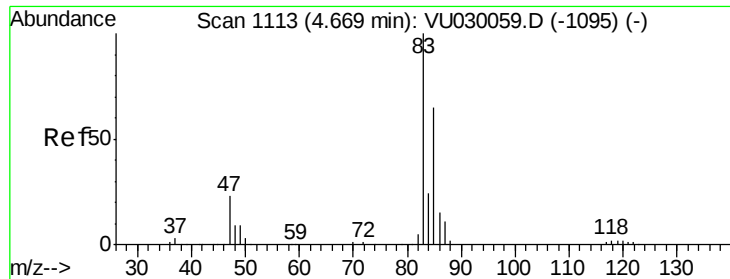
20000

0

4.45 4.50 4.55 4.60 4.65

Time-->

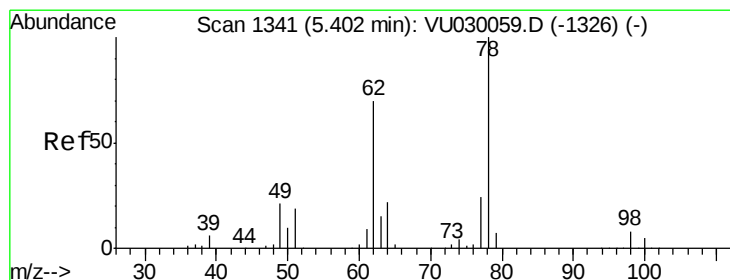
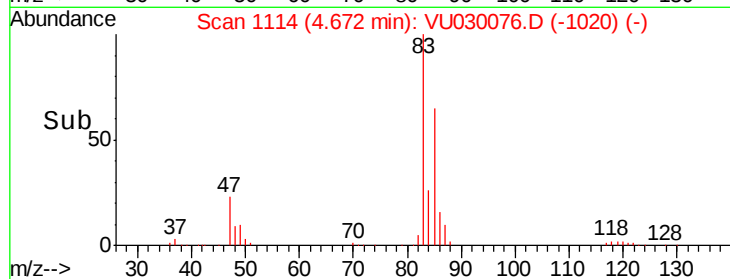
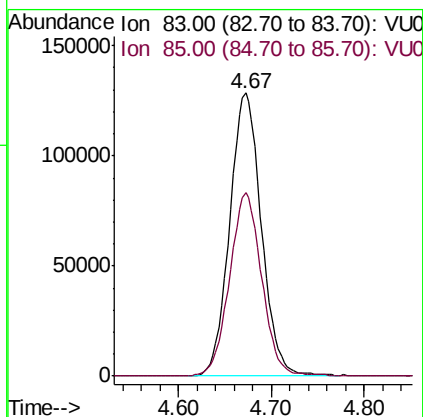
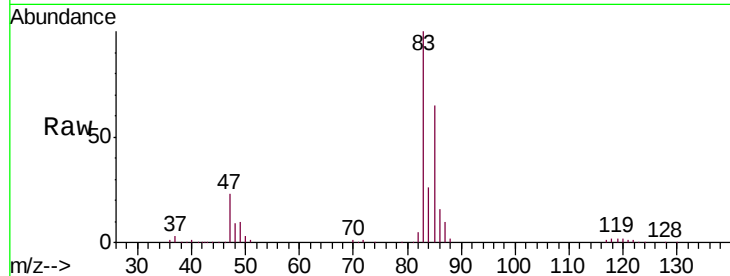




#25
Chloroform
Concen: 53.059 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU030076.D
Acq: 14 Mar 2019 16:04

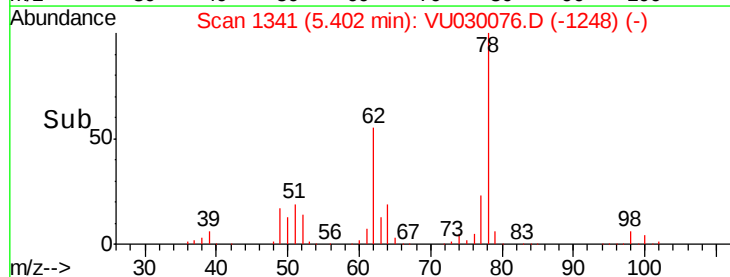
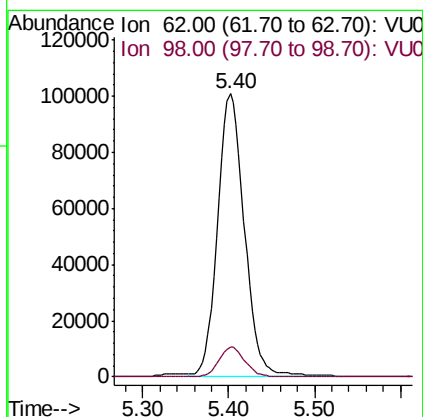
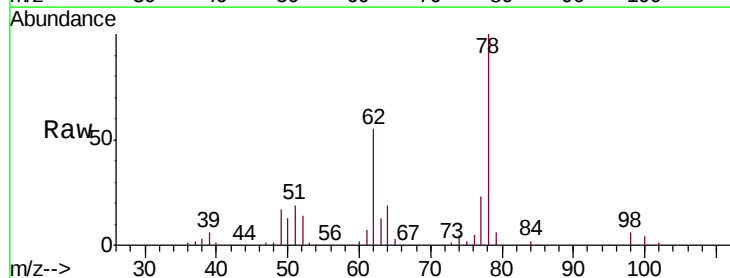
Instrument :
MSVOA_U
ClientSampled :
VSTD05036

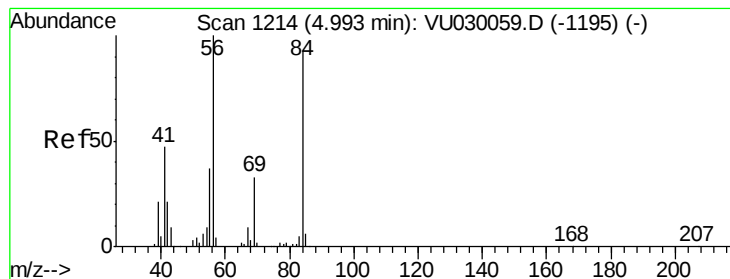
Tgt Ion: 83 Resp: 304870
Ion Ratio Lower Upper
83 100
85 64.7 44.9 83.5



#27
1,2-Dichloroethane
Concen: 52.755 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VU030076.D
Acq: 14 Mar 2019 16:04

Tgt Ion: 62 Resp: 217927
Ion Ratio Lower Upper
62 100
98 10.4 8.8 13.2





#29

Cyclohexane

Concen: 50.050 ug/L

RT: 4.99 min Scan# 1214

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

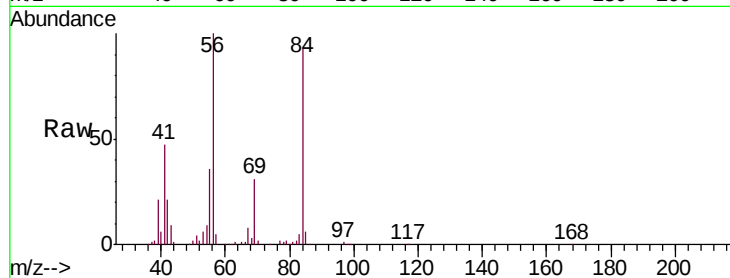
Tgt Ion: 56 Resp: 252742

Ion Ratio Lower Upper

56 100

69 31.1 25.3 37.9

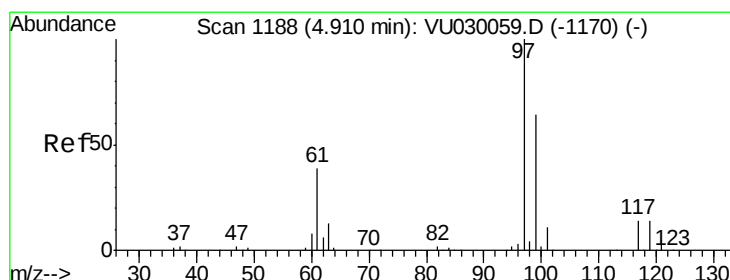
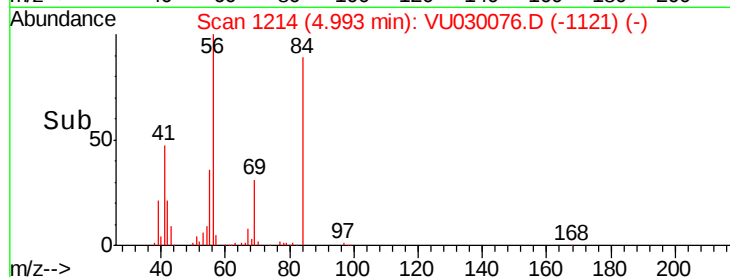
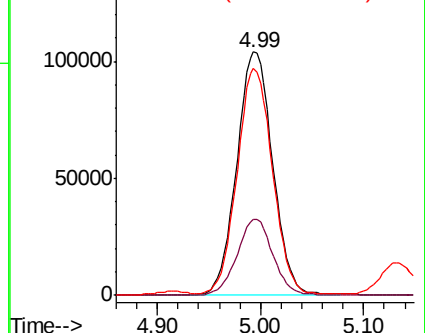
84 92.3 73.5 110.3



Abundance Ion 56.00 (55.70 to 56.70): VU030076.D (-1121) (-)

Ion 69.00 (68.70 to 69.70): VU030076.D (-1121) (-)

Ion 84.00 (83.70 to 84.70): VU030076.D (-1121) (-)



#30

1,1,1-Trichloroethane

Concen: 51.308 ug/L

RT: 4.91 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

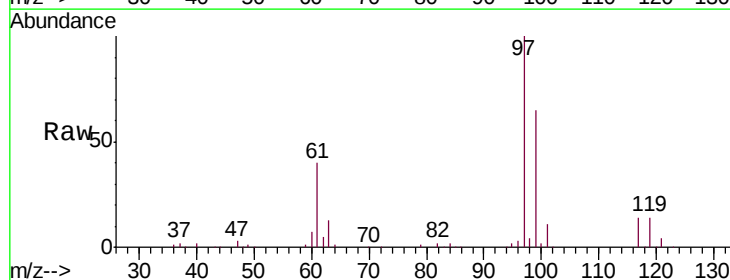
Tgt Ion: 97 Resp: 256450

Ion Ratio Lower Upper

97 100

99 64.6 52.2 78.2

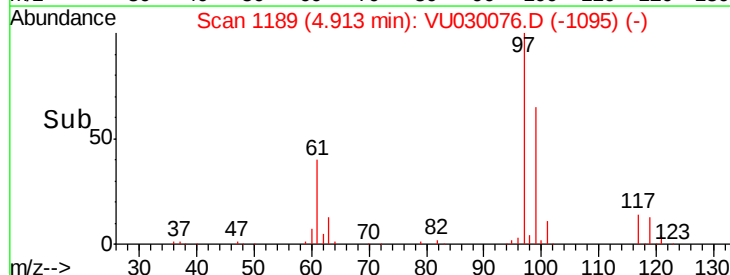
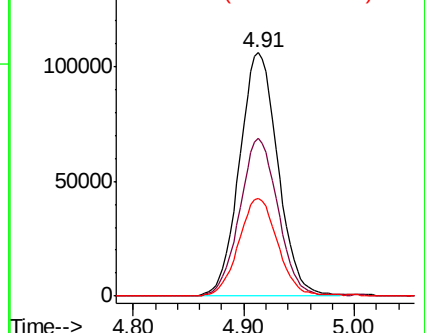
61 40.4 32.2 48.4

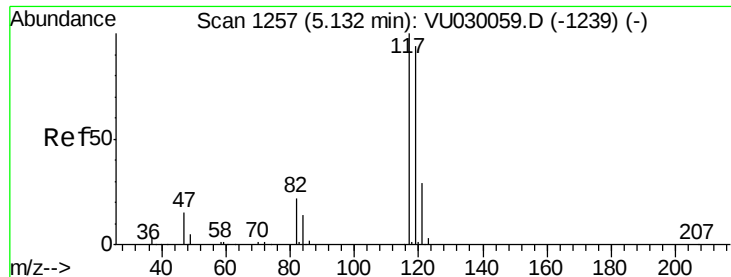


Abundance Ion 97.00 (96.70 to 97.70): VU030076.D (-1095) (-)

Ion 99.00 (98.70 to 99.70): VU030076.D (-1095) (-)

Ion 61.05 (60.75 to 61.75): VU030076.D (-1095) (-)





#31

Carbon tetrachloride

Concen: 51.249 ug/L

RT: 5.13 min Scan# 1258

Delta R.T. 0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

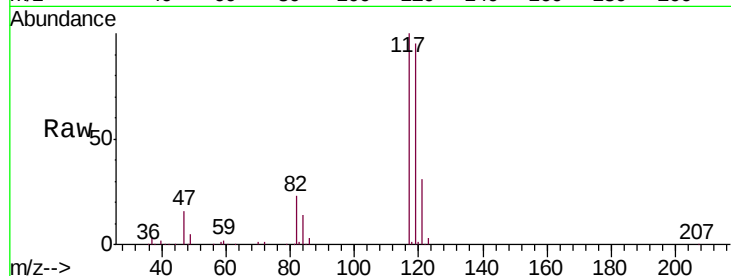
VSTD05036

Tgt Ion:117 Resp: 226192

Ion Ratio Lower Upper

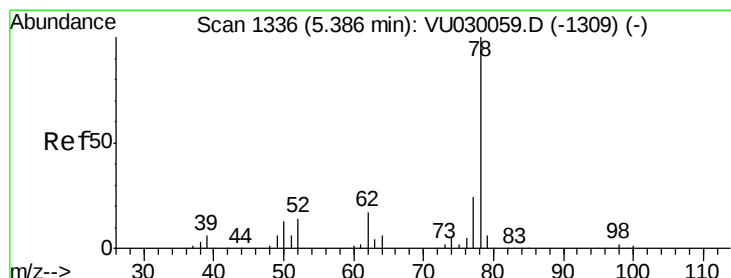
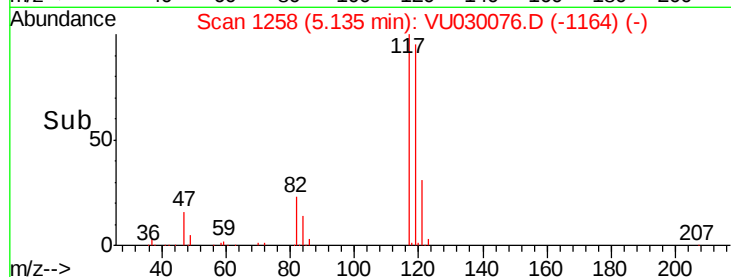
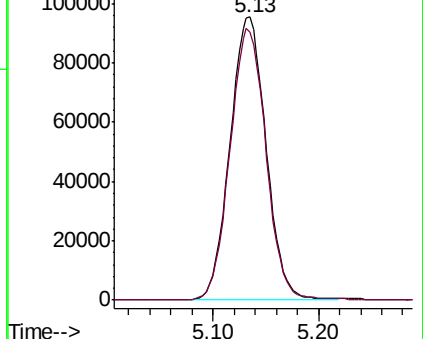
117 100

119 95.9 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: 52.004 ug/L

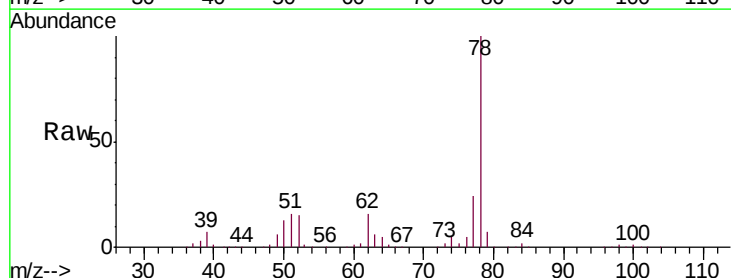
RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

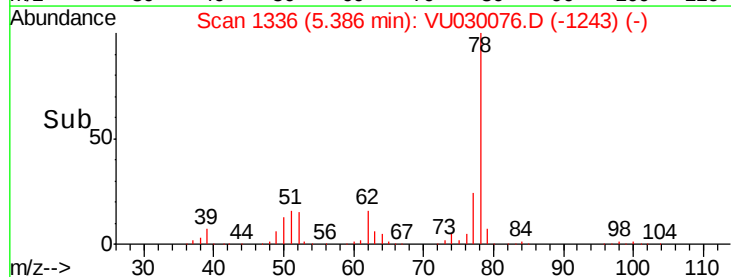
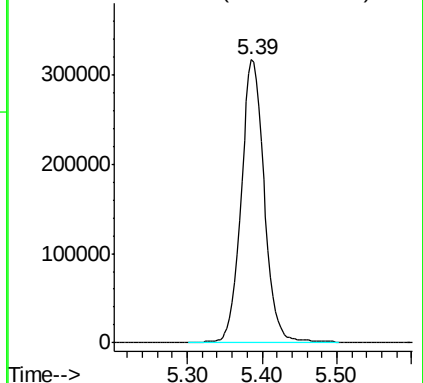
Lab File: VU030076.D

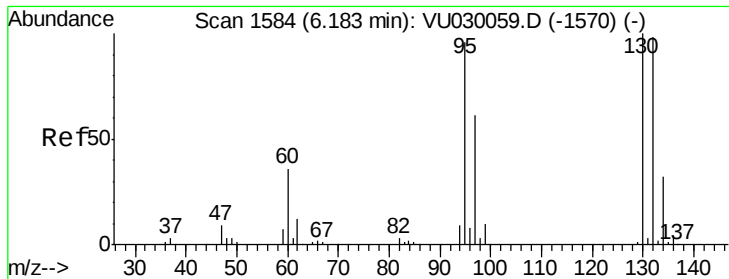
Acq: 14 Mar 2019 16:04

Tgt Ion: 78 Resp: 681331



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 51.436 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

Tgt Ion: 95 Resp: 176617

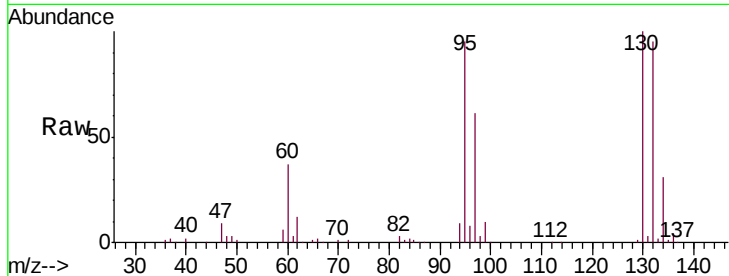
Ion Ratio Lower Upper

95 100

97 64.5 45.5 84.5

132 100.2 71.5 132.7

130 105.1 73.5 136.5

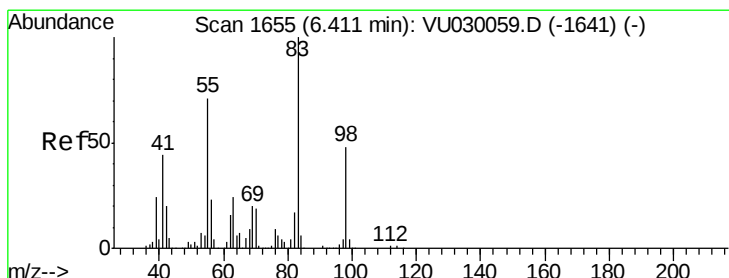
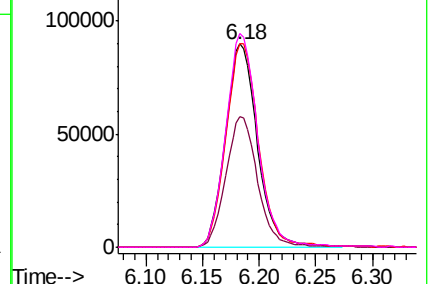
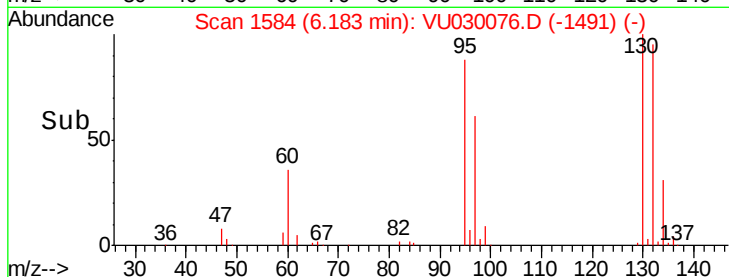


Abundance Ion 95.00 (94.70 to 95.70): VU030076.D (-1562) (-)

Ion 97.00 (96.70 to 97.70): VU030076.D (-1562) (-)

Ion 132.00 (131.70 to 132.70): VU030076.D (-1562) (-)

Ion 130.00 (129.70 to 130.70): VU030076.D (-1562) (-)



#35

Methylcyclohexane

Concen: 50.253 ug/L

RT: 6.41 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

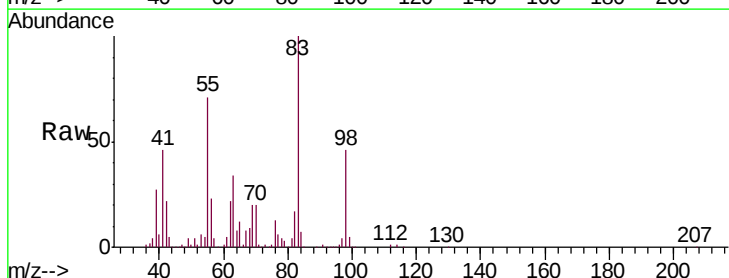
Tgt Ion: 83 Resp: 279813

Ion Ratio Lower Upper

83 100

55 71.3 56.6 84.8

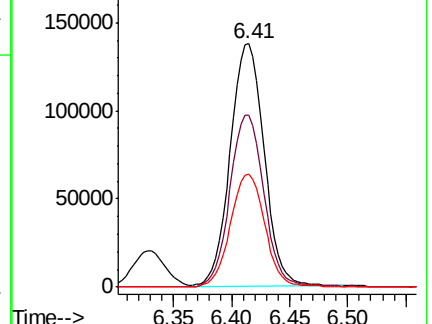
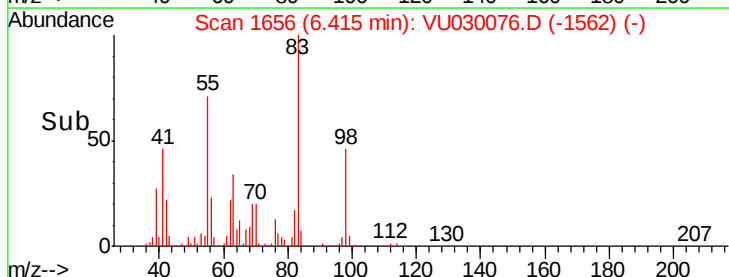
98 47.5 37.8 56.6

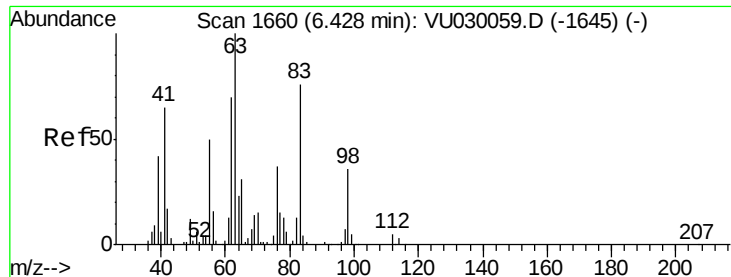


Abundance Ion 83.00 (82.70 to 83.70): VU030076.D (-1562) (-)

Ion 55.00 (54.70 to 55.70): VU030076.D (-1562) (-)

Ion 98.00 (97.70 to 98.70): VU030076.D (-1562) (-)





#37

1,2-Dichloropropane

Concen: 53.376 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

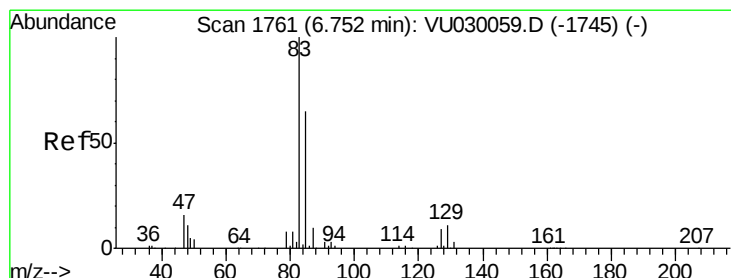
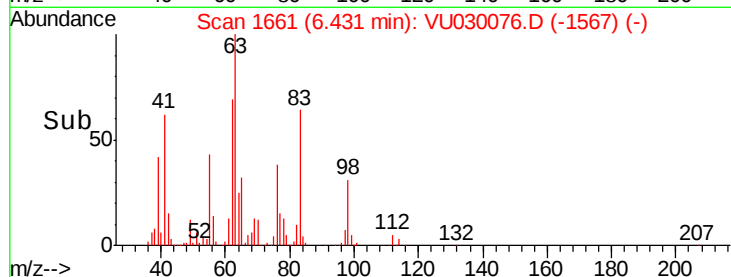
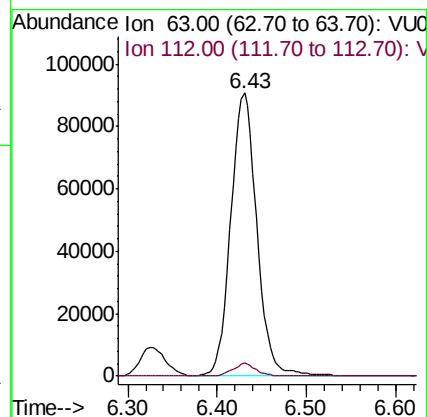
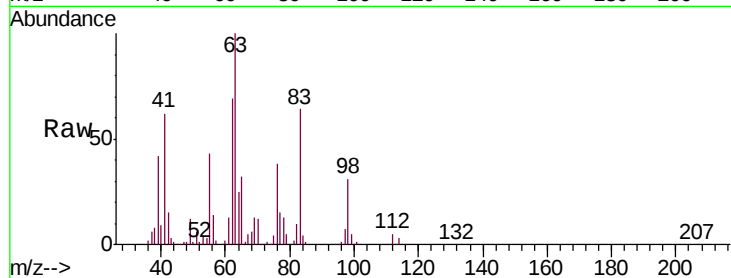
VSTD05036

Tgt Ion: 63 Resp: 183943

Ion Ratio Lower Upper

63 100

112 4.0 3.4 5.2



#38

Bromodichloromethane

Concen: 53.112 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

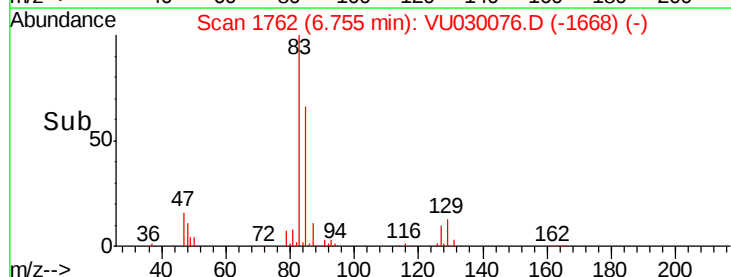
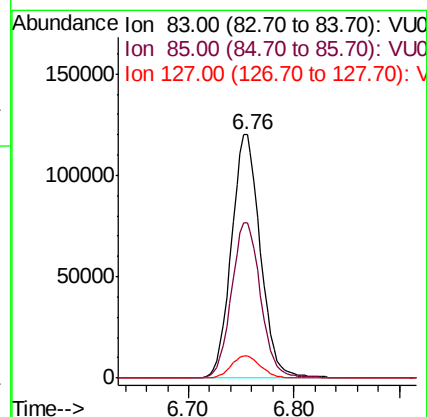
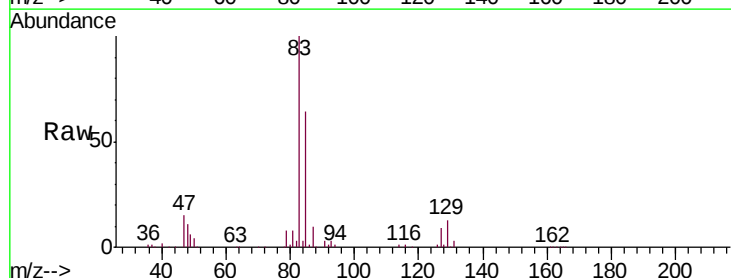
Tgt Ion: 83 Resp: 227607

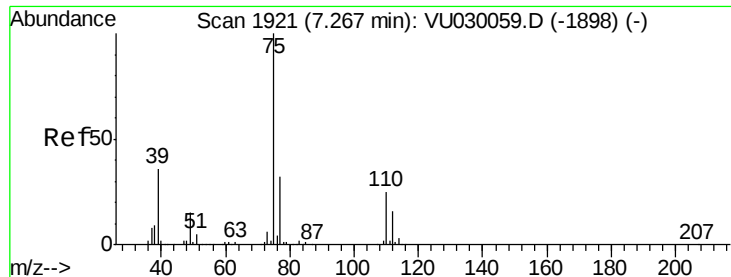
Ion Ratio Lower Upper

83 100

85 63.9 45.7 84.9

127 9.3 7.7 11.5

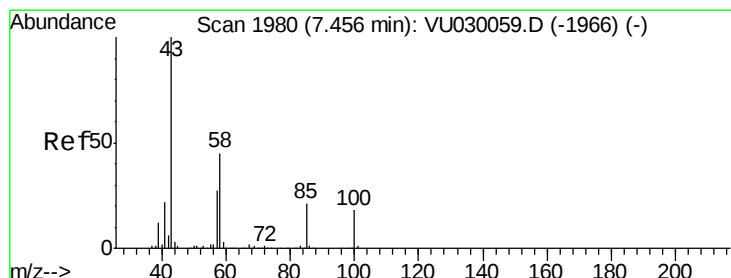
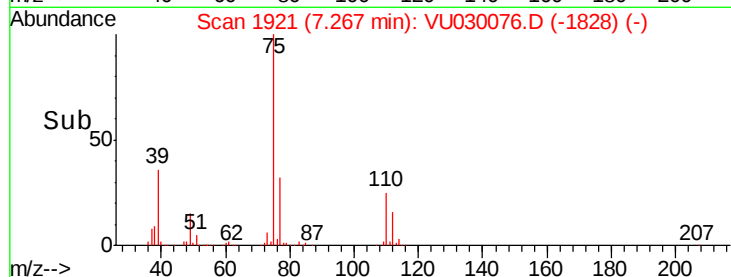
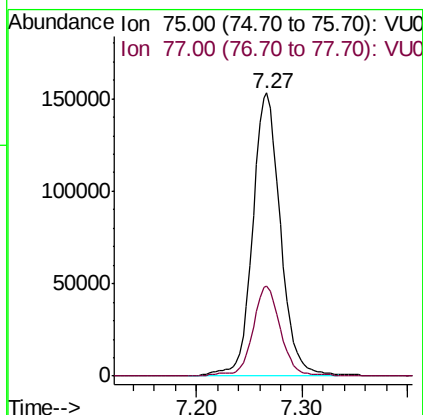
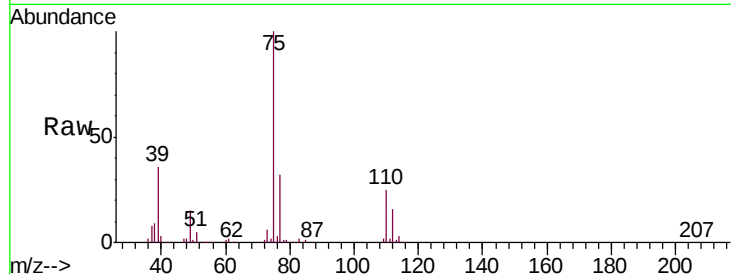




#39
 cis-1,3-Dichloropropene
 Concen: 52.629 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VU030076.D
 Acq: 14 Mar 2019 16:04

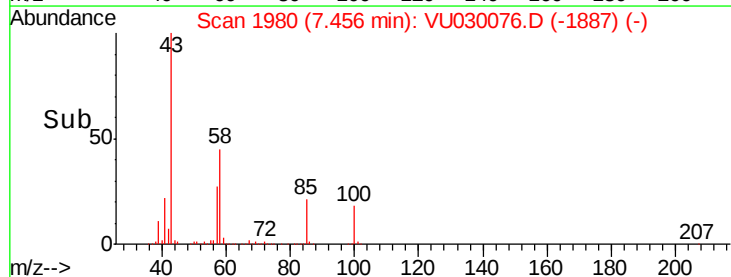
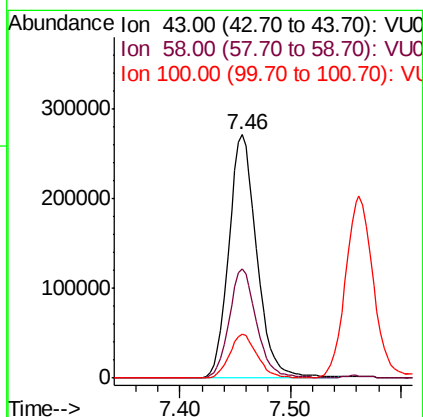
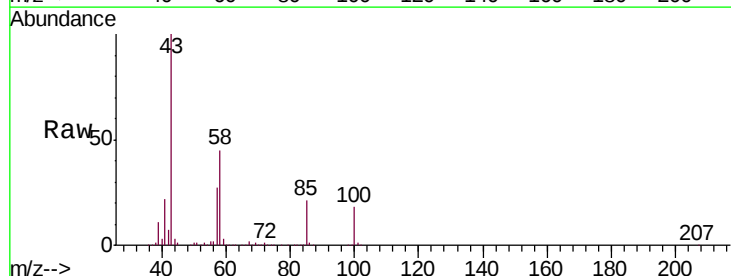
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

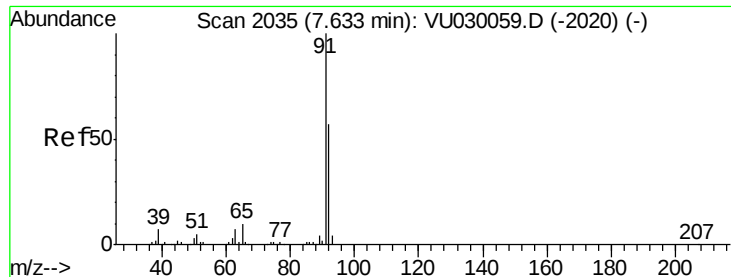
Tgt Ion: 75 Resp: 282247
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 102.883 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. -0.00 min
 Lab File: VU030076.D
 Acq: 14 Mar 2019 16:04

Tgt Ion: 43 Resp: 478729
 Ion Ratio Lower Upper
 43 100
 58 44.0 35.1 52.7
 100 17.9 14.4 21.6





#42

Toluene

Concen: 52.145 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

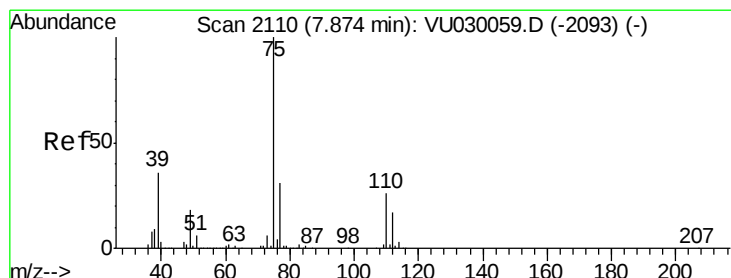
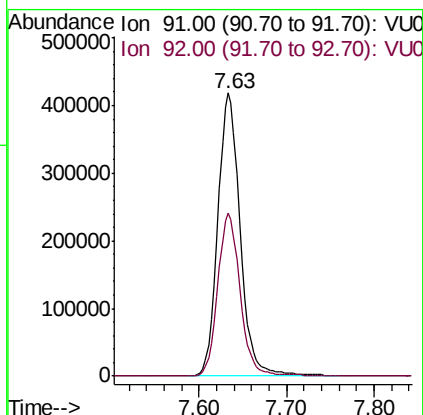
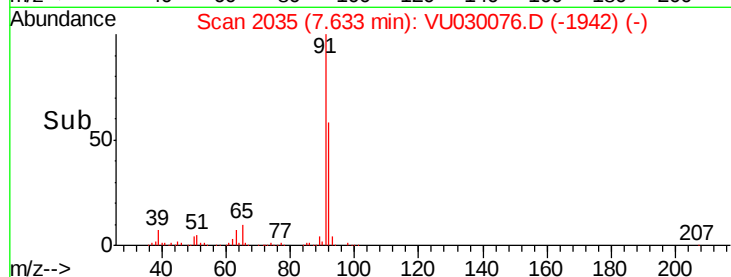
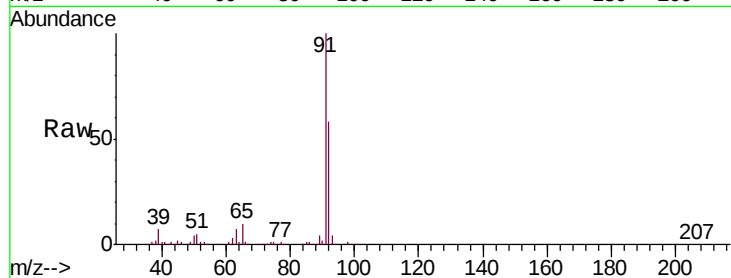
VSTD05036

Tgt Ion: 91 Resp: 742786

Ion Ratio Lower Upper

91 100

92 57.6 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 53.207 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU030076.D

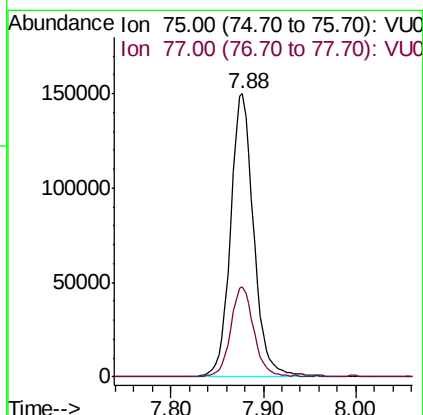
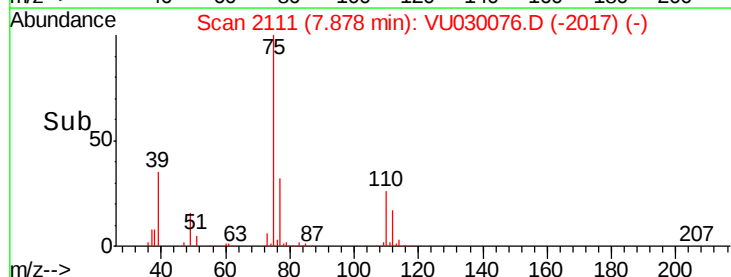
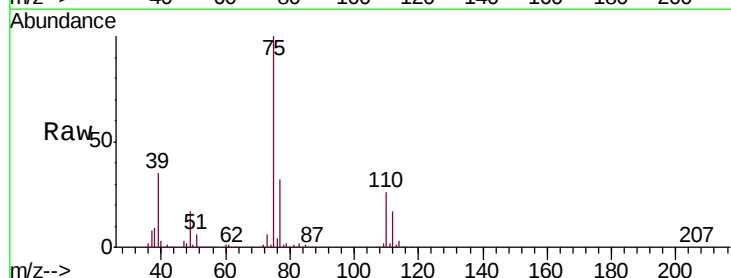
Acq: 14 Mar 2019 16:04

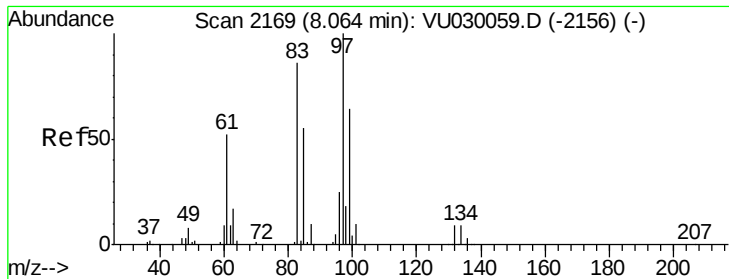
Tgt Ion: 75 Resp: 260534

Ion Ratio Lower Upper

75 100

77 31.9 21.9 40.7

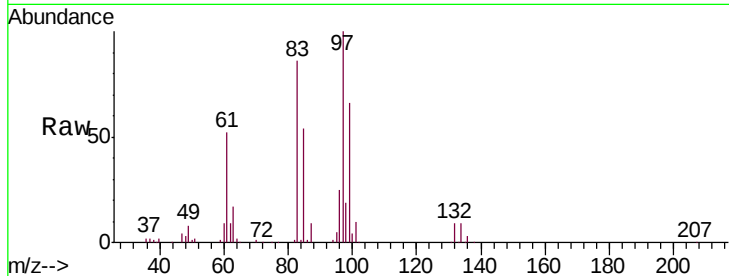




#45
 1,1,2-Trichloroethane
 Concen: 52.734 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU030076.D
 Acq: 14 Mar 2019 16:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

Tgt Ion:	97	Resp:	181745
Ion	Ratio	Lower	Upper
97	100		
99	65.6	44.7	82.9
83	85.6	58.6	108.8
85	54.0	38.1	70.7



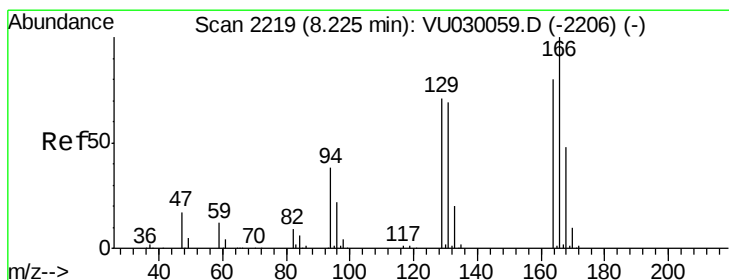
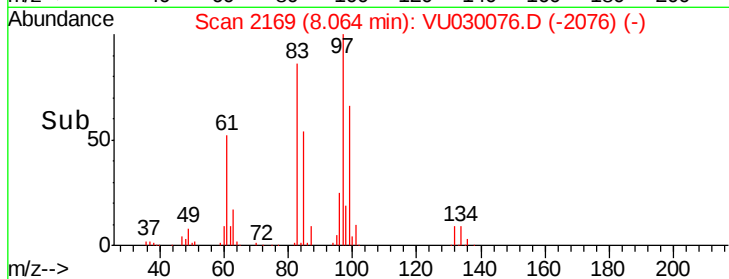
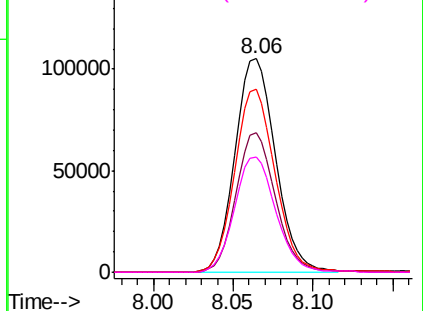
Abundance

Ion 97.00 (96.70 to 97.70): VU030076.D (-2169) (-)

Ion 99.00 (98.70 to 99.70): VU030076.D (-2169) (-)

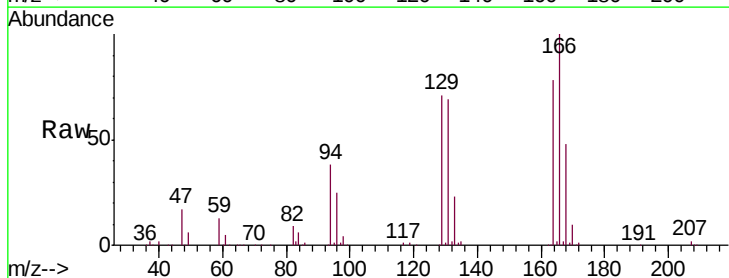
Ion 83.00 (82.70 to 83.70): VU030076.D (-2169) (-)

Ion 85.00 (84.70 to 85.70): VU030076.D (-2169) (-)



#46
 Tetrachloroethene
 Concen: 50.674 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VU030076.D
 Acq: 14 Mar 2019 16:04

Tgt Ion:	164	Resp:	152273
Ion	Ratio	Lower	Upper
164	100		
129	91.8	63.3	117.7
131	89.3	62.0	115.2
166	128.9	90.5	168.1



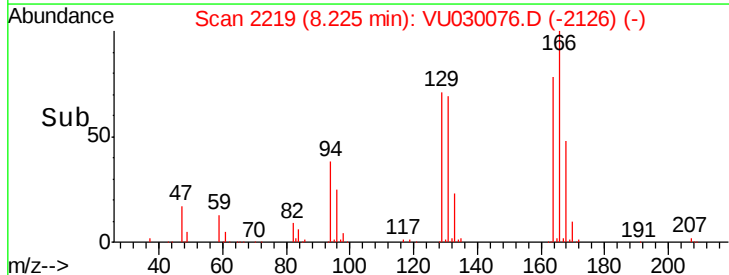
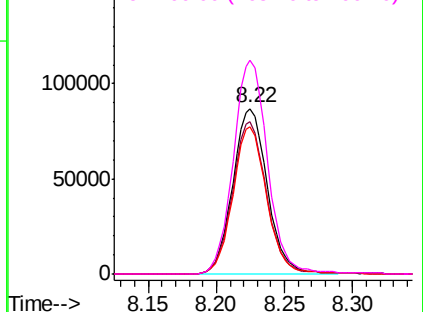
Abundance

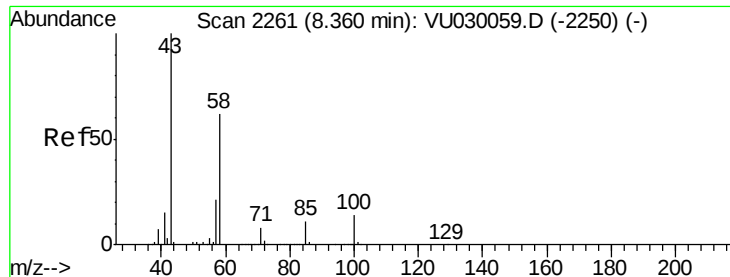
Ion 164.00 (163.70 to 164.70): VU030076.D (-2219) (-)

Ion 129.00 (128.70 to 129.70): VU030076.D (-2219) (-)

Ion 131.00 (130.70 to 131.70): VU030076.D (-2219) (-)

Ion 166.00 (165.70 to 166.70): VU030076.D (-2219) (-)

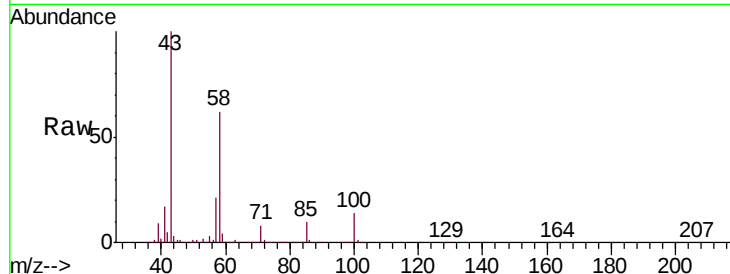




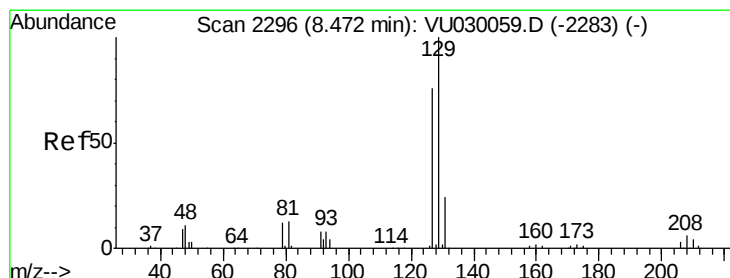
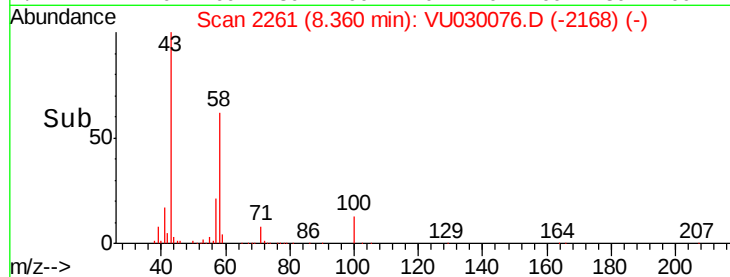
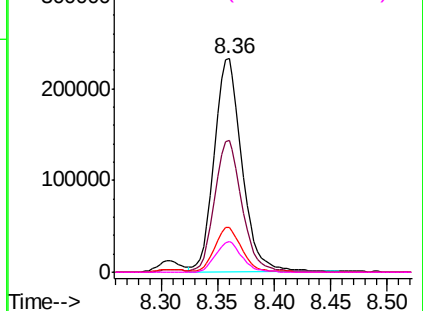
#48
2-Hexanone
Concen: 99.269 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU030076.D
Acq: 14 Mar 2019 16:04

Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

Tgt Ion:	43	Resp:	394066
Ion	Ratio	Lower	Upper
43	100		
58	61.3	48.6	72.8
57	20.5	16.1	24.1
100	13.9	11.6	17.4

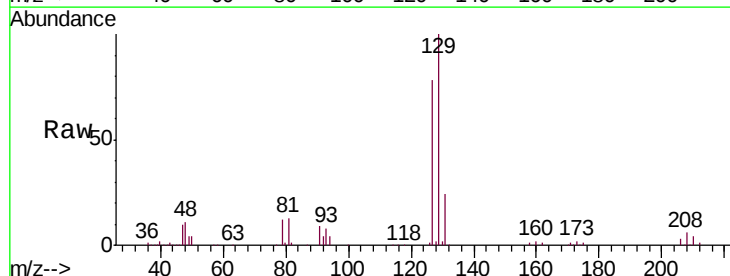


Abundance Ion 43.00 (42.70 to 43.70): VU030059.D (-2250) (-)
Ion 58.00 (57.70 to 58.70): VU030059.D (-2250) (-)
Ion 57.00 (56.70 to 57.70): VU030059.D (-2250) (-)
Ion 100.00 (99.70 to 100.70): VU030059.D (-2250) (-)

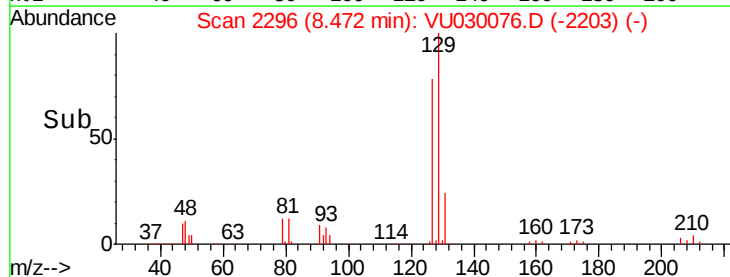
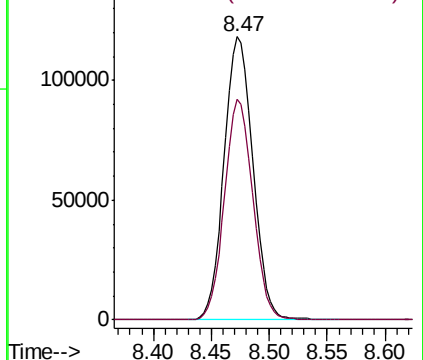


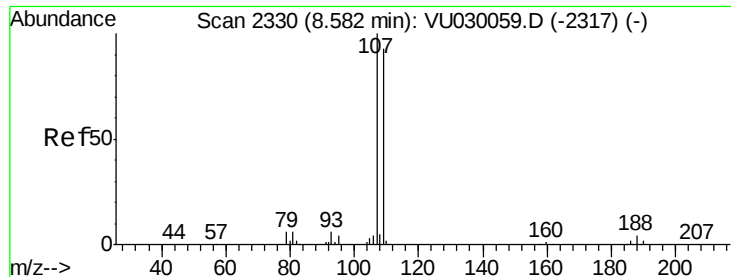
#49
Dibromochloromethane
Concen: 52.918 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU030076.D
Acq: 14 Mar 2019 16:04

Tgt Ion:	129	Resp:	203764
Ion	Ratio	Lower	Upper
129	100		
127	78.0	55.2	102.4



Abundance Ion 129.00 (128.70 to 129.70): VU030059.D (-2283) (-)
Ion 127.00 (126.70 to 127.70): VU030059.D (-2283) (-)

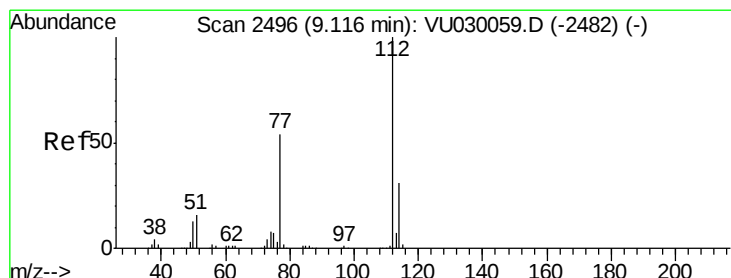
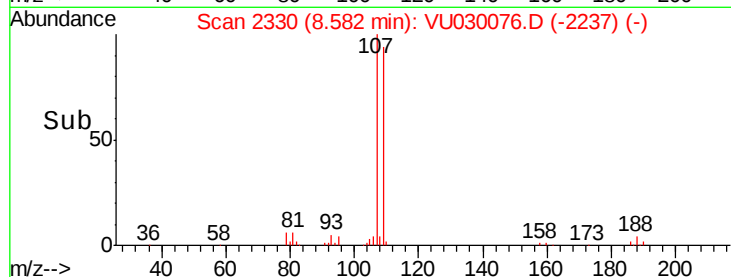
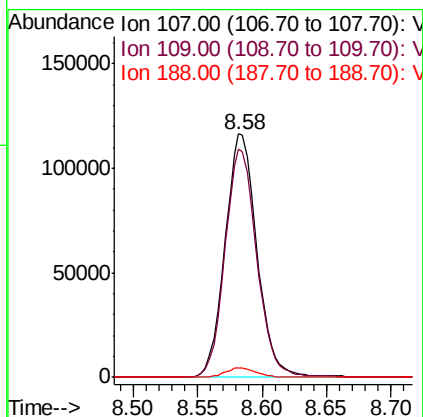
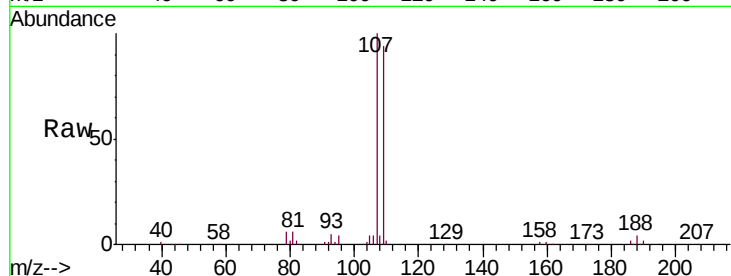




#50
1,2-Dibromoethane
Concen: 52.525 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU030076.D
Acq: 14 Mar 2019 16:04

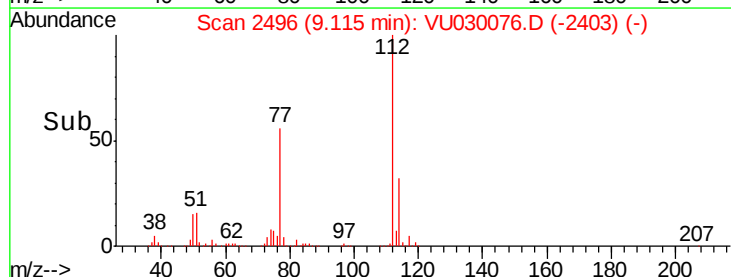
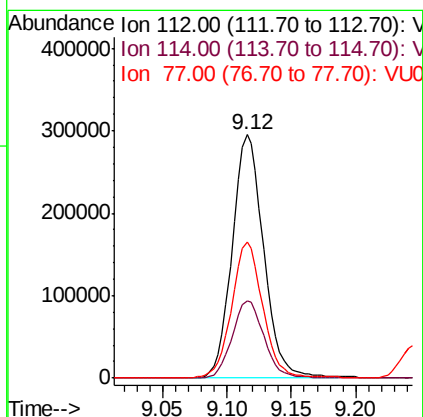
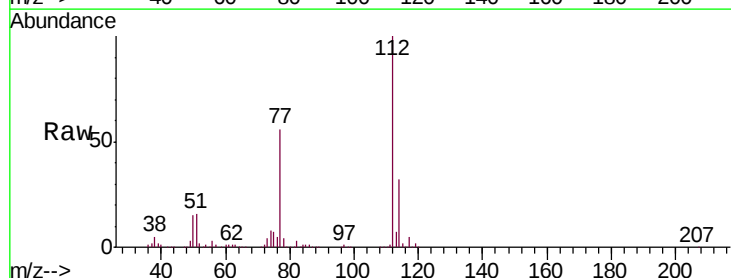
Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

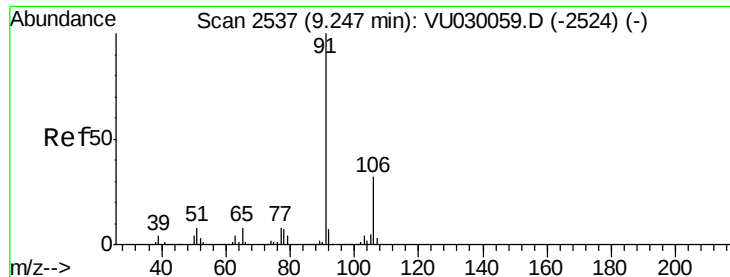
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.7	67.8	126.0
188	4.1	3.2	4.8



#51
Chlorobenzene
Concen: 52.076 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU030076.D
Acq: 14 Mar 2019 16:04

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.5	41.9
77	56.0	44.6	66.8





#52

Ethylbenzene

Concen: 51.708 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

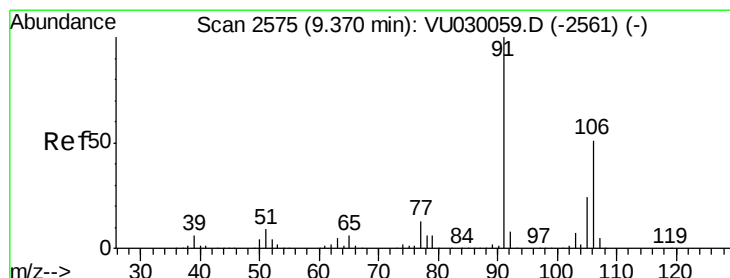
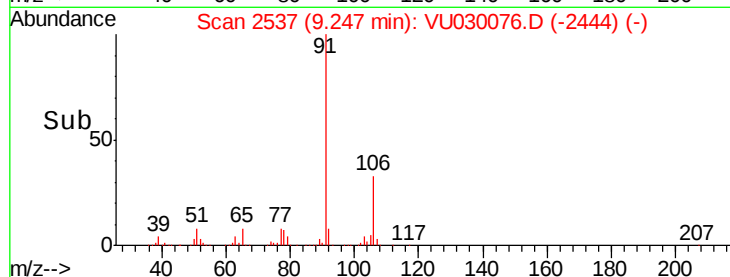
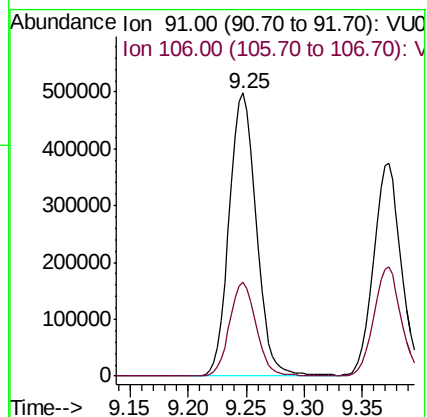
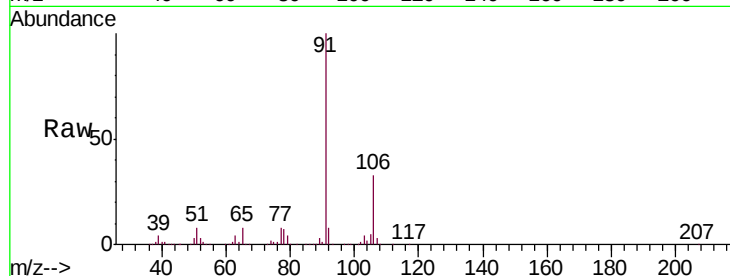
VSTD05036

Tgt Ion: 91 Resp: 810851

Ion Ratio Lower Upper

91 100

106 33.0 22.5 41.9



#53

m,p-Xylene

Concen: 51.960 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030076.D

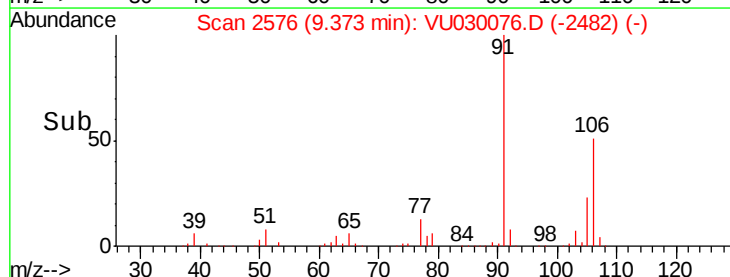
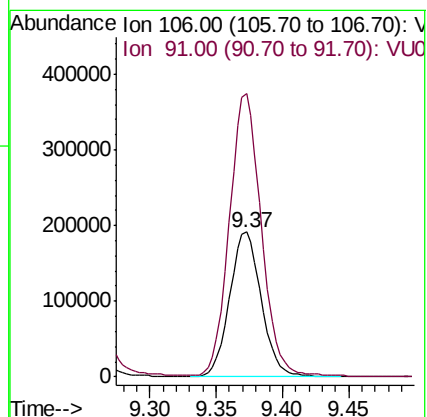
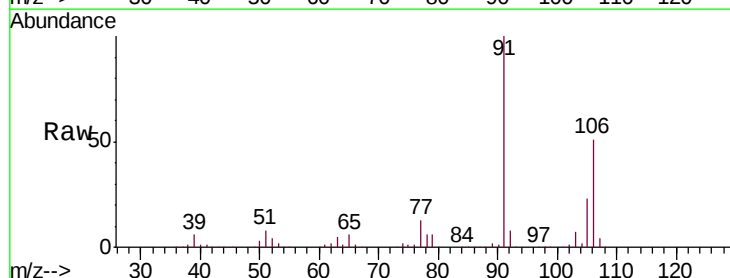
Acq: 14 Mar 2019 16:04

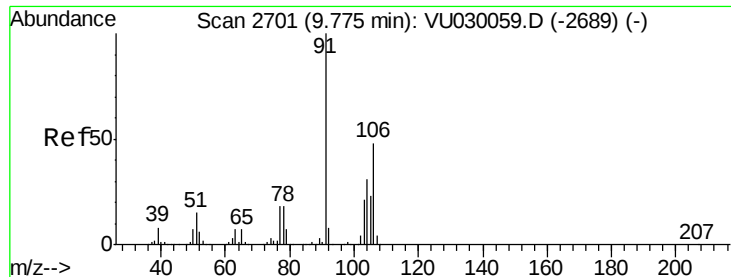
Tgt Ion: 106 Resp: 315243

Ion Ratio Lower Upper

106 100

91 195.3 135.1 250.9

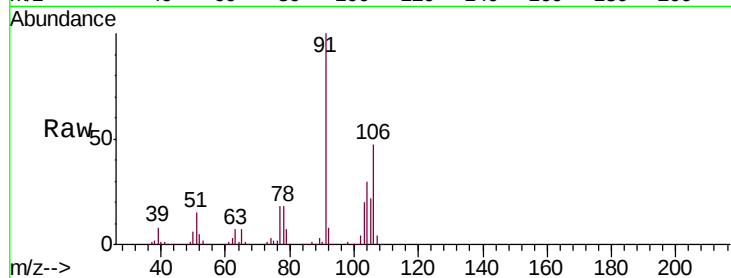




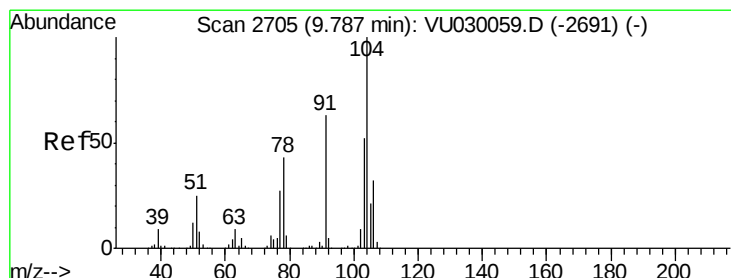
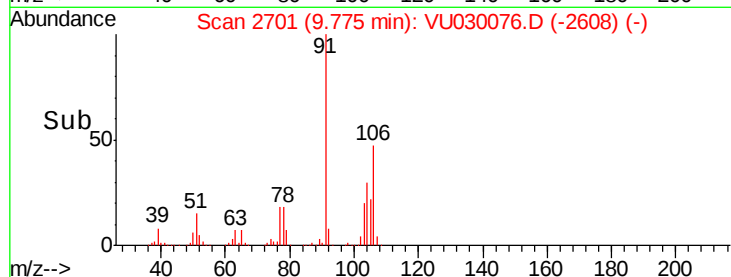
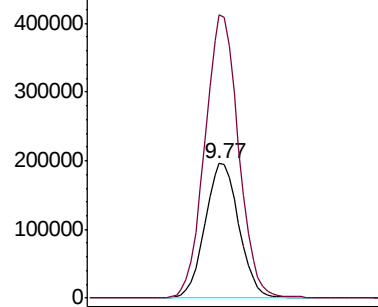
#54
o-xylene
Concen: 51.977 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU030076.D
Acq: 14 Mar 2019 16:04

Instrument :
MSVOA_U
ClientSampleId :
VSTD05036

Tgt Ion:106 Resp: 309745
Ion Ratio Lower Upper
106 100
91 210.7 144.5 268.4

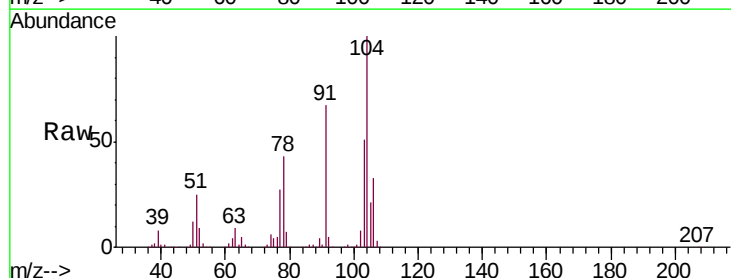


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

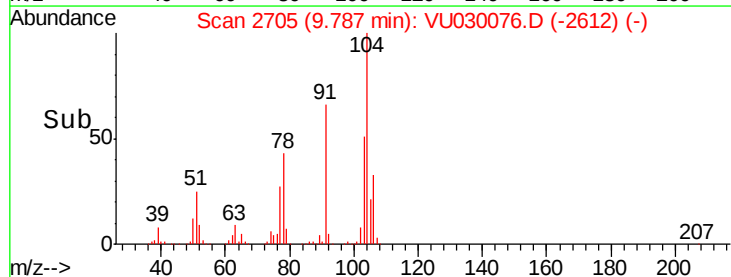
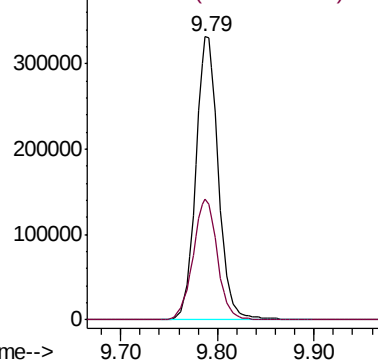


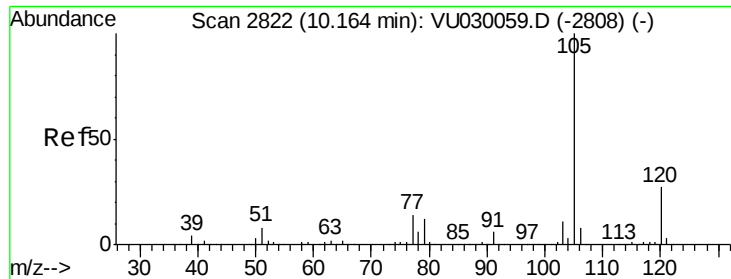
#55
Styrene
Concen: 52.761 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. -0.00 min
Lab File: VU030076.D
Acq: 14 Mar 2019 16:04

Tgt Ion:104 Resp: 535368
Ion Ratio Lower Upper
104 100
78 42.6 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.144 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

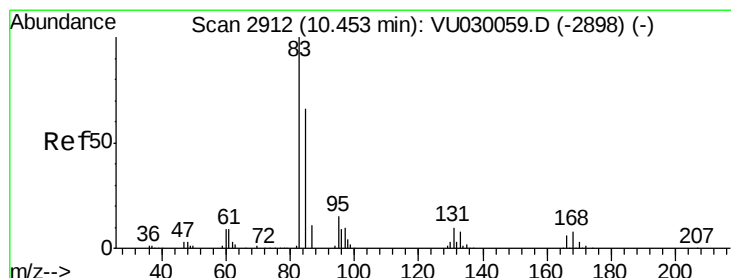
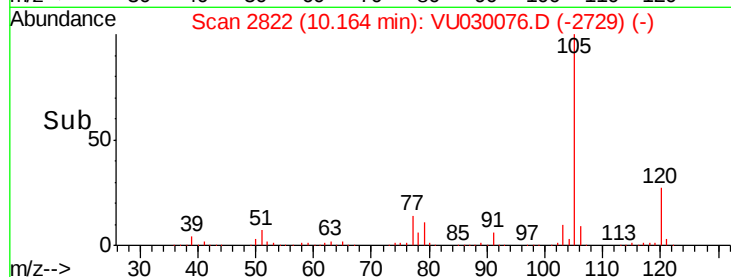
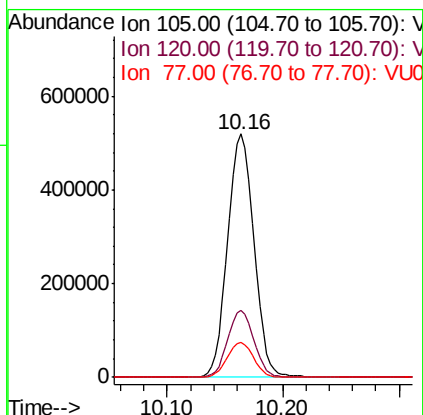
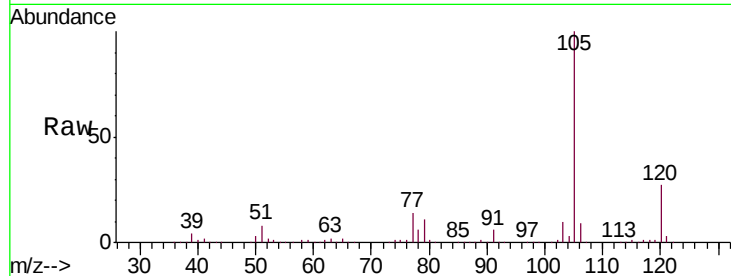
Tgt Ion: 105 Resp: 813508

Ion Ratio Lower Upper

105 100

120 27.3 21.7 32.5

77 14.4 11.1 16.7



#58

1,1,2,2-Tetrachloroethane

Concen: 52.253 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

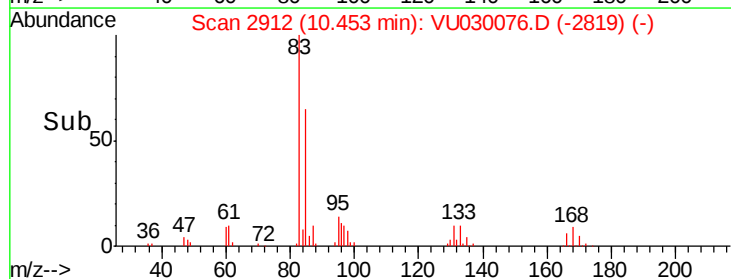
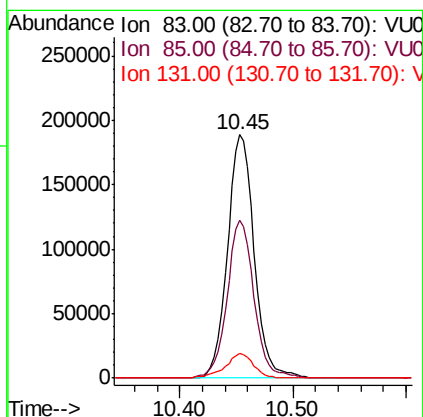
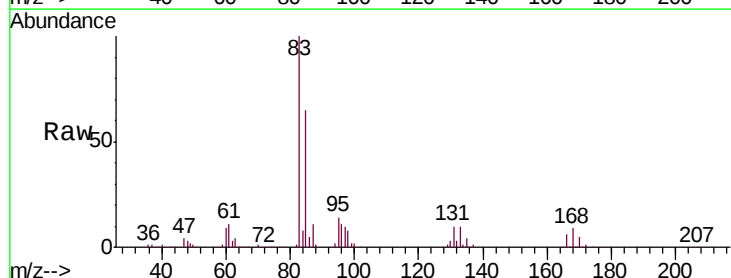
Tgt Ion: 83 Resp: 309091

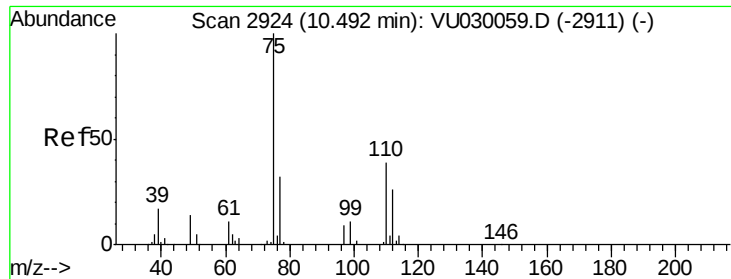
Ion Ratio Lower Upper

83 100

85 64.8 45.9 85.3

131 10.0 8.5 12.7





#59

1,2,3-Trichloropropane

Concen: 51.816 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

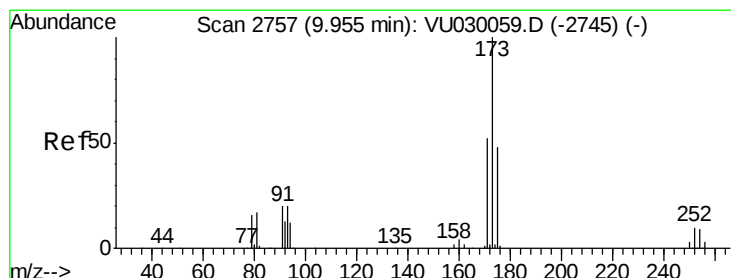
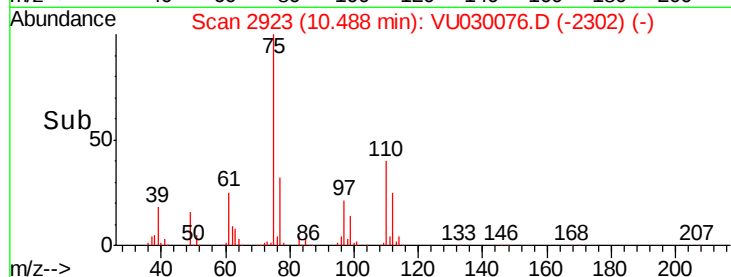
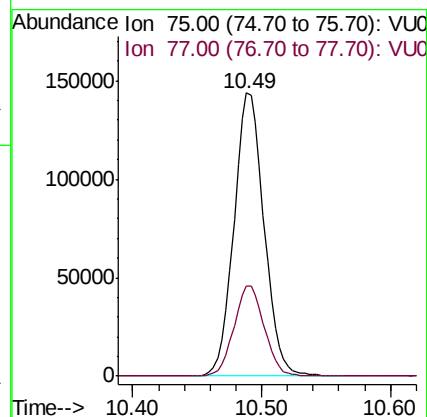
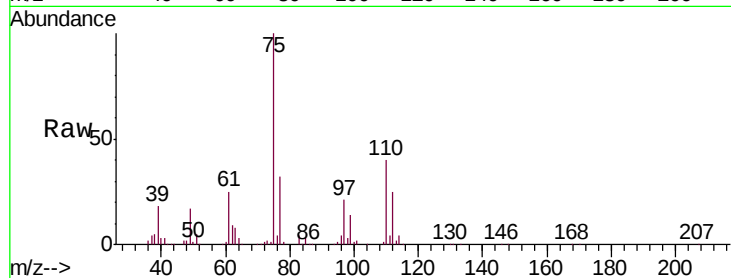
VSTD05036

Tgt Ion: 75 Resp: 232556

Ion Ratio Lower Upper

75 100

77 32.2 25.8 38.8



#61

Bromoform

Concen: 53.097 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

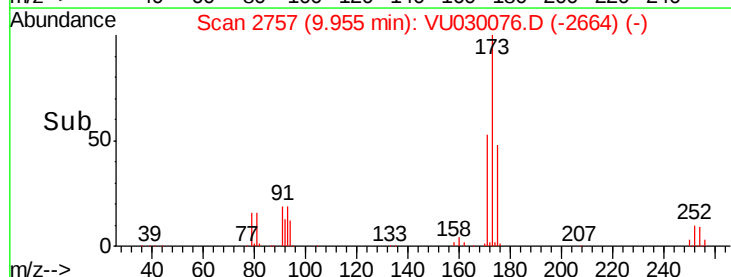
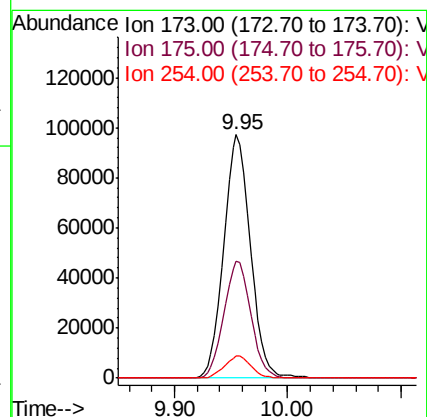
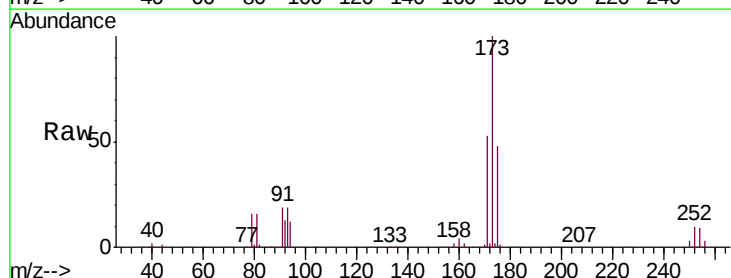
Tgt Ion: 173 Resp: 159837

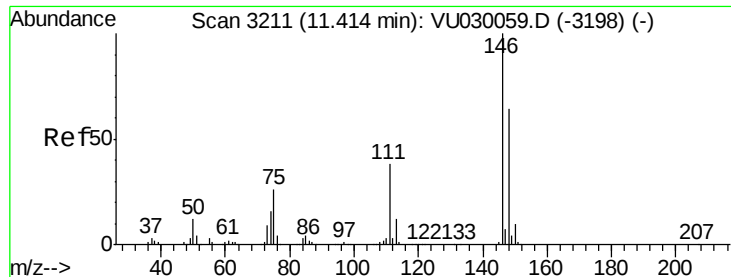
Ion Ratio Lower Upper

173 100

175 48.3 39.0 58.6

254 9.0 7.4 11.0





#62

1,3-Dichlorobenzene

Concen: 50.585 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

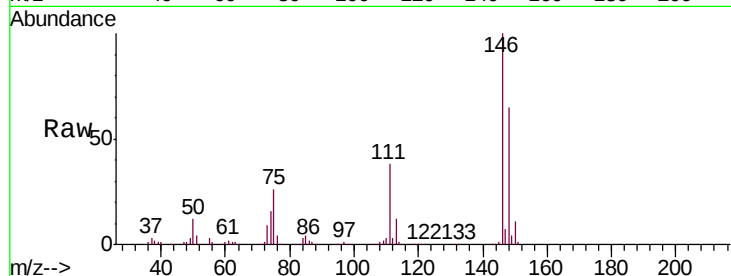
Tgt Ion:146 Resp: 395077

Ion Ratio Lower Upper

146 100

111 37.6 26.7 49.5

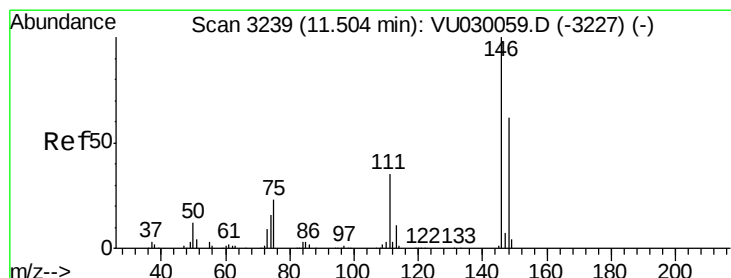
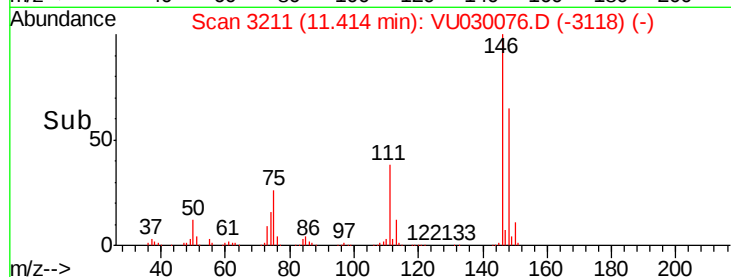
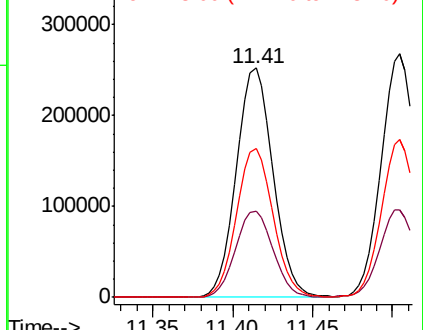
148 64.6 44.9 83.5



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: 52.276 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

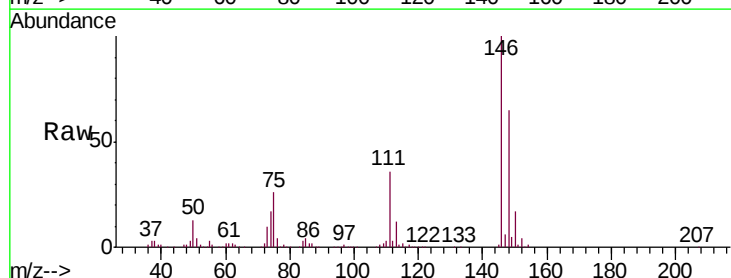
Tgt Ion:146 Resp: 415156

Ion Ratio Lower Upper

146 100

111 36.1 25.5 47.3

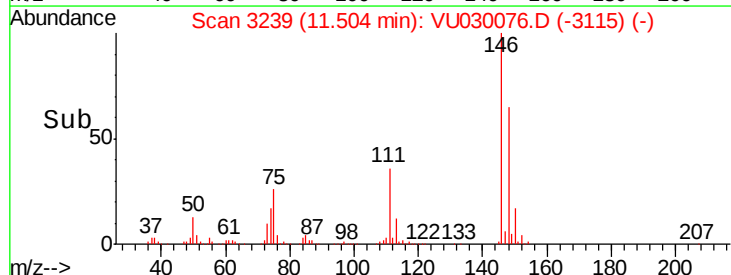
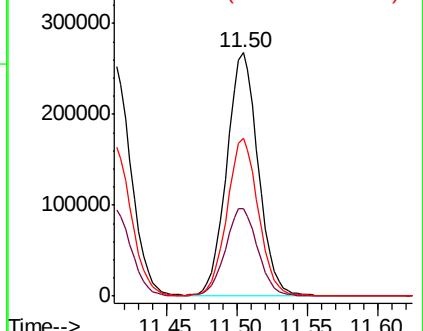
148 64.7 45.0 83.6

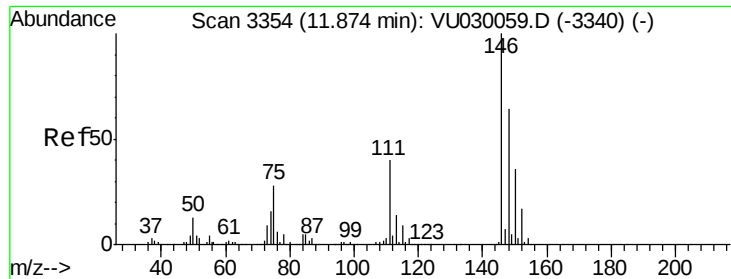


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

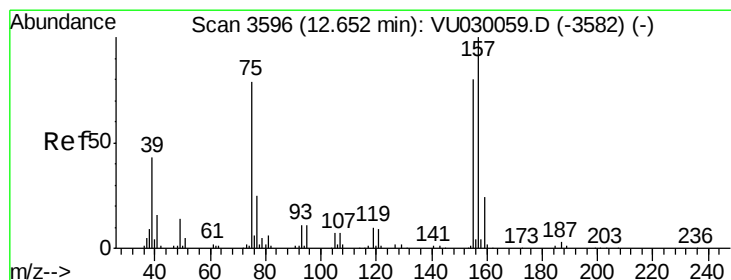
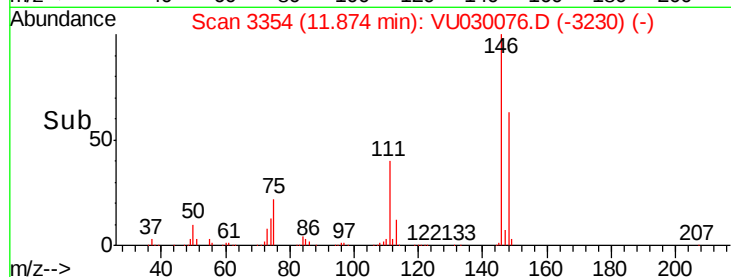
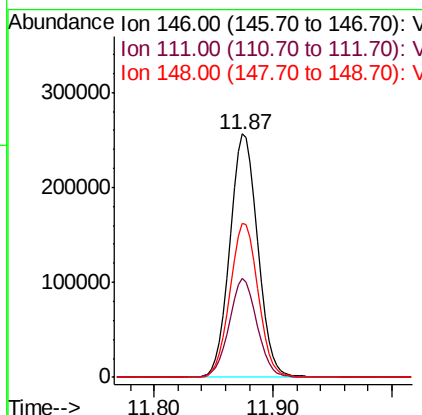
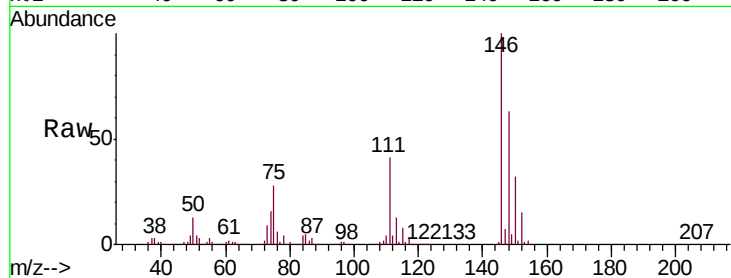




#65
 1,2-Dichlorobenzene
 Concen: 53.020 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU030076.D
 Acq: 14 Mar 2019 16:04

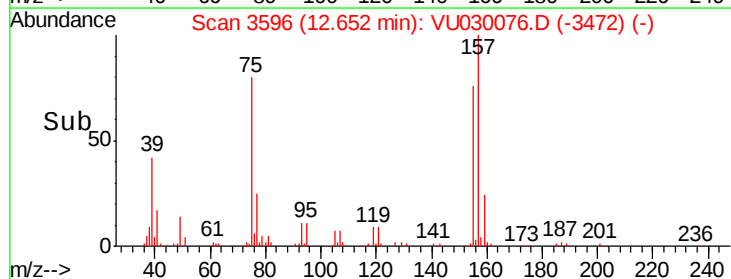
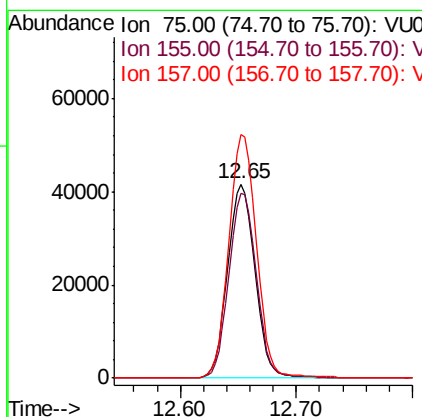
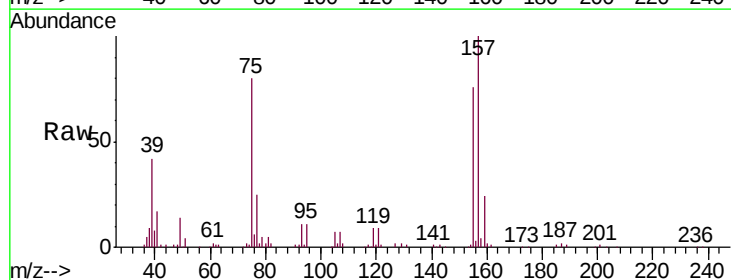
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

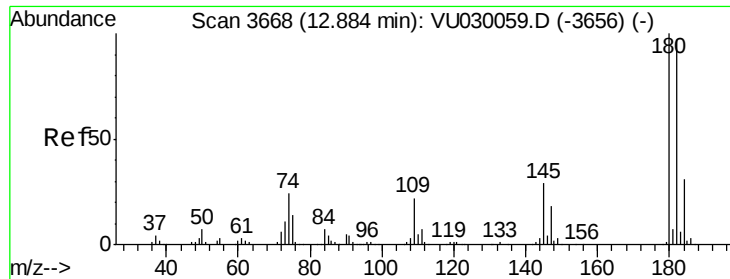
Tgt Ion: 146 Resp: 416815
 Ion Ratio Lower Upper
 146 100
 111 40.6 30.9 46.3
 148 63.3 51.2 76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 53.269 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU030076.D
 Acq: 14 Mar 2019 16:04

Tgt Ion: 75 Resp: 68052
 Ion Ratio Lower Upper
 75 100
 155 95.5 80.9 121.3
 157 125.5 104.6 156.8

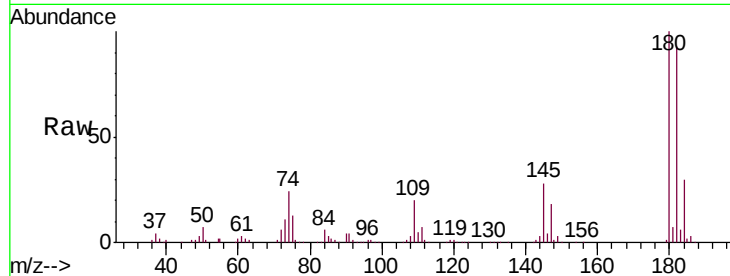




#67
 1,3,5-Trichlorobenzene
 Concen: 51.998 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU030076.D
 Acq: 14 Mar 2019 16:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05036

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.0	76.3	114.5
184	29.6	24.7	37.1
145	27.8	22.3	33.5



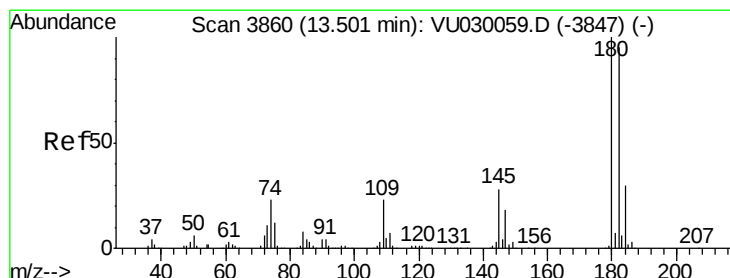
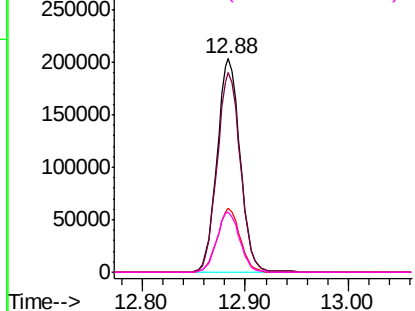
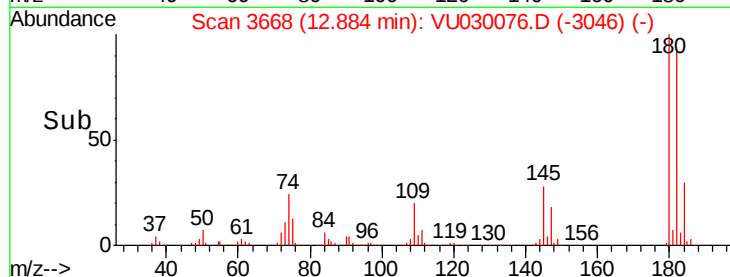
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

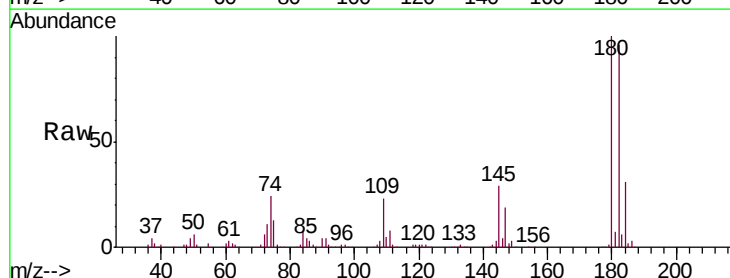
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 51.521 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU030076.D
 Acq: 14 Mar 2019 16:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.6	76.1	114.1
145	28.7	23.0	34.4

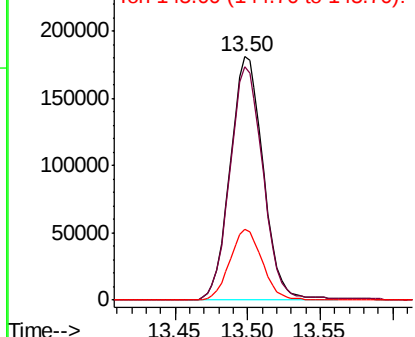
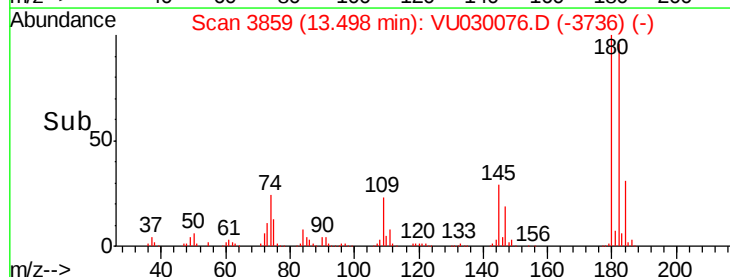


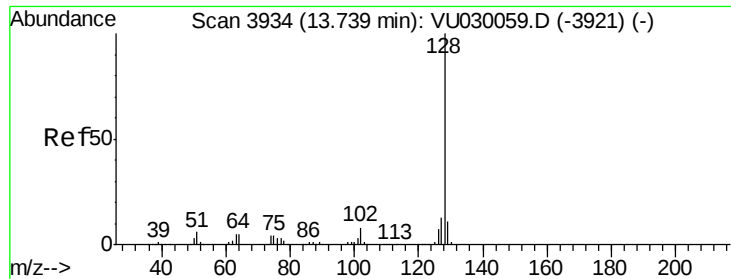
Abundance

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: 49.879 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05036

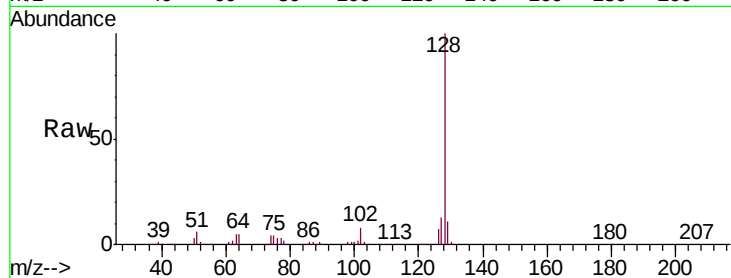
Tgt Ion:128 Resp: 898631

Ion Ratio Lower Upper

128 100

127 12.7 10.1 15.1

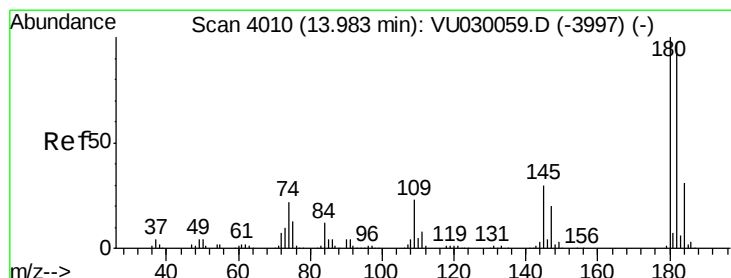
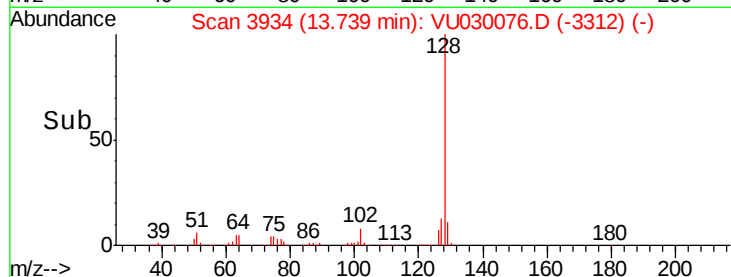
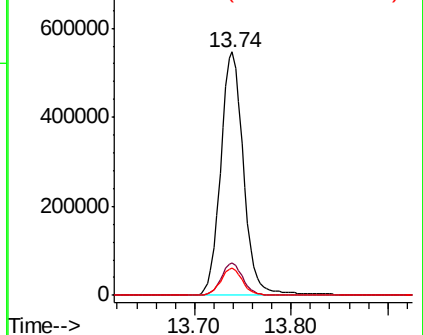
129 10.9 8.7 13.1



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: 51.644 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU030076.D

Acq: 14 Mar 2019 16:04

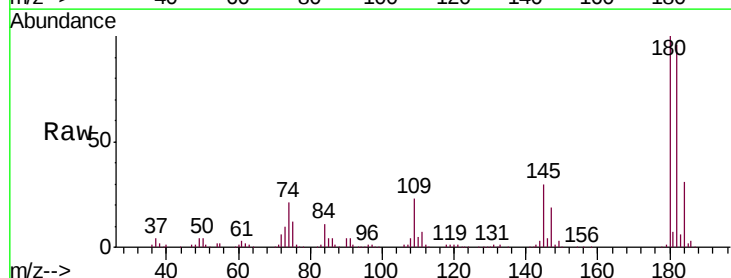
Tgt Ion:180 Resp: 297496

Ion Ratio Lower Upper

180 100

182 95.0 75.9 113.9

145 30.6 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

