

Data File : VU031448.D
Acq On : 23 Apr 2019 19:05
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Quant Time: Apr 24 06:06:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042319WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 24 06:00:22 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	693077	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	642744	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	310889	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	248630	44.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.54%
7) Chloroethane-d5	1.68	69	199707	46.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.40%
11) 1,1-Dichloroethene-d2	2.27	63	473660	48.48	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.96%
21) 2-Butanone-d5	4.19	46	456574	108.74	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.74%
24) Chloroform-d	4.64	84	449018	50.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.34%
26) 1,2-Dichloroethane-d4	5.31	65	265135	49.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.92%
32) Benzene-d6	5.34	84	905494	48.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.54%
36) 1,2-Dichloropropane-d6	6.33	67	286862	48.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.02%
41) Toluene-d8	7.56	98	775838	46.78	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.56%
43) trans-1,3-Dichloropropene-	7.85	79	128396	47.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.32%
47) 2-Hexanone-d5	8.31	63	306220	102.29	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.29%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	394864	48.72	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.44%
64) 1,2-Dichlorobenzene-d4	11.85	152	307901	48.45	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	260080	52.944	ug/L	100
3) Chloromethane	1.32	50	321480	51.307	ug/L	99
5) Vinyl chloride	1.40	62	323949	52.474	ug/L	100
6) Bromomethane	1.63	94	167822	46.572	ug/L	99
8) Chloroethane	1.70	64	185406	52.702	ug/L	98
9) Trichlorofluoromethane	1.88	101	388233	52.473	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	231172	53.861	ug/L	99
12) 1,1-Dichloroethene	2.28	96	228941	54.223	ug/L	91
13) Acetone	2.34	43	319169	96.826	ug/L	99
14) Carbon disulfide	2.47	76	648367	51.162	ug/L	100
15) Methyl Acetate	2.62	43	322596	53.573	ug/L	99
16) Methylene chloride	2.70	84	258193	53.677	ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	234632	53.880	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	789309	55.112	ug/L	100
19) 1,1-Dichloroethane	3.44	63	445471	52.329	ug/L	97
20) cis-1,2-Dichloroethene	4.22	96	261044	52.832	ug/L	100
22) 2-Butanone	4.27	43	449401	105.205	ug/L	100

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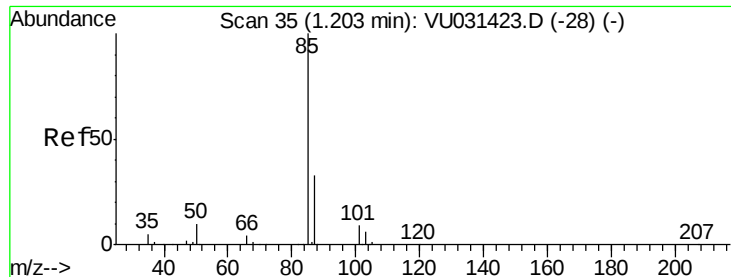
Quant Time: Apr 24 06:06:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042319WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 24 06:00:22 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	129789	52.375	ug/L	97
25) Chloroform	4.67	83	452735	55.180	ug/L	94
27) 1,2-Dichloroethane	5.40	62	313389	51.217	ug/L	98
29) Cyclohexane	4.99	56	431589	55.340	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	373313	54.480	ug/L	99
31) Carbon tetrachloride	5.13	117	315286	53.742	ug/L	99
33) Benzene	5.39	78	985828	53.001	ug/L	100
34) Trichloroethene	6.18	95	262441	53.275	ug/L	98
35) Methylcyclohexane	6.41	83	370515	51.400	ug/L	99
37) 1,2-Dichloropropane	6.43	63	255131	51.489	ug/L	100
38) Bromodichloromethane	6.75	83	307210	50.542	ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	397763	53.636	ug/L	97
40) 4-Methyl-2-pentanone	7.46	43	771735	102.479	ug/L	99
42) Toluene	7.63	91	1004091	52.020	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	328034	51.315	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	235215	51.684	ug/L	98
46) Tetrachloroethene	8.22	164	185110	52.983	ug/L	98
48) 2-Hexanone	8.36	43	591694	100.723	ug/L	98
49) Dibromochloromethane	8.47	129	249455	51.663	ug/L	99
50) 1,2-Dibromoethane	8.58	107	254491	53.166	ug/L	99
51) Chlorobenzene	9.12	112	618532	51.636	ug/L	98
52) Ethylbenzene	9.25	91	1074902	51.982	ug/L	99
53) m,p-Xylene	9.37	106	407034	53.932	ug/L	97
54) o-xylene	9.77	106	406864	53.621	ug/L	97
55) Styrene	9.79	104	676378	53.598	ug/L	98
56) Isopropylbenzene	10.16	105	1041124	53.409	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	392691	49.977	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	307371	50.261	ug/L	98
61) Bromoform	9.95	173	190774	49.910	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	468877	51.503	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	476572	52.475	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	490767	52.733	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	86252	50.114	ug/L	89
67) 1,3,5-Trichlorobenzene	12.88	180	350206	52.195	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	318942	59.131	ug/L	100
69) Naphthalene	13.74	128	1159168	61.818	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	325665	56.075	ug/L	97

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

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#2

Dichlorodifluoromethane

Concen: 52.944 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Instrument :

MSVOA_U

ClientSampleId :

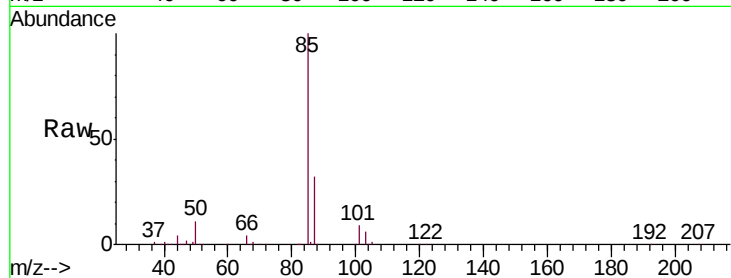
VSTD05048

Tgt Ion: 85 Resp: 260080

Ion Ratio Lower Upper

85 100

87 32.8 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU031423.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU031423.D (-28) (-)

1.20

250000

200000

150000

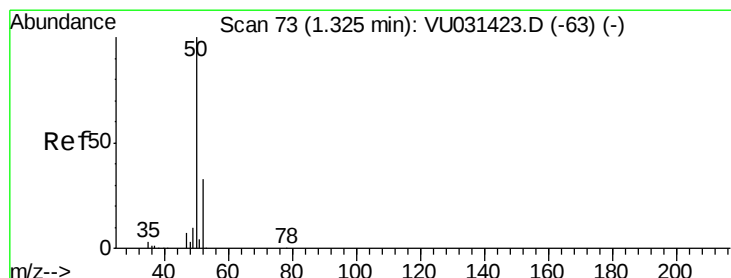
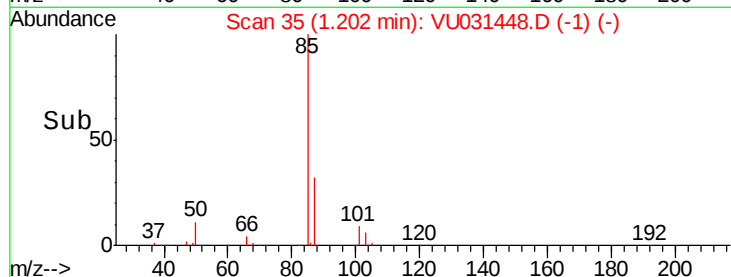
100000

50000

0

Time-->

1.15 1.20 1.25



#3

Chloromethane

Concen: 51.307 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU031448.D

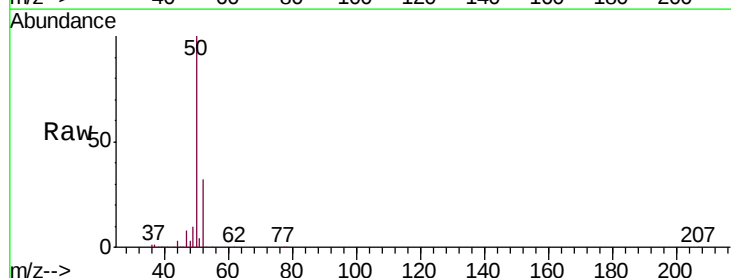
Acq: 23 Apr 2019 19:05

Tgt Ion: 50 Resp: 321480

Ion Ratio Lower Upper

50 100

52 32.4 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU031423.D (-63) (-)

Ion 52.00 (51.70 to 52.70): VU031423.D (-63) (-)

1.32

300000

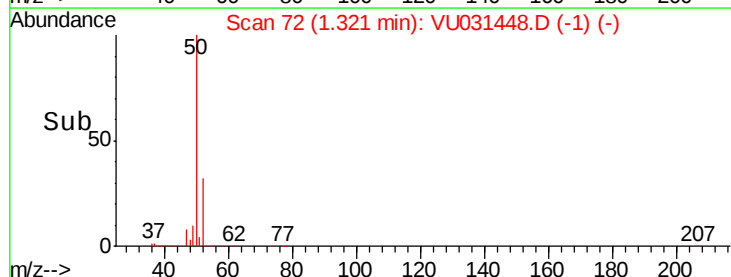
200000

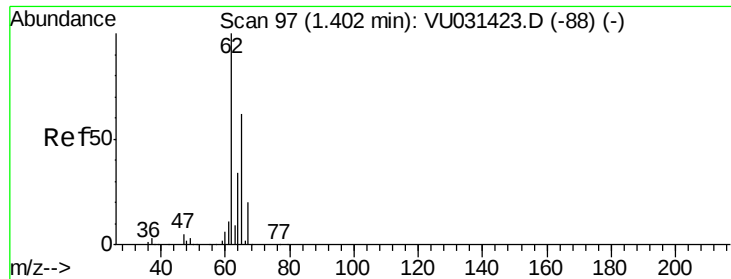
100000

0

Time-->

1.30 1.35 1.40





#5

Vinyl chloride

Concen: 52.474 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Instrument :

MSVOA_U

ClientSampleId :

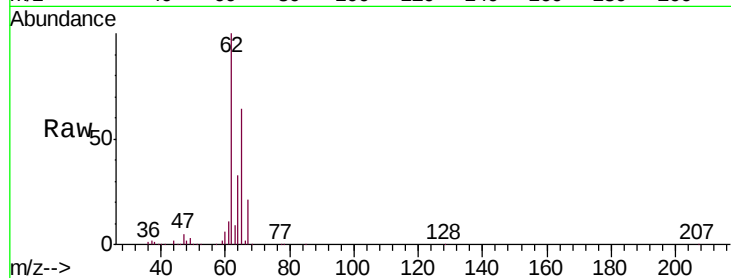
VSTD05048

Tgt Ion: 62 Resp: 323949

Ion Ratio Lower Upper

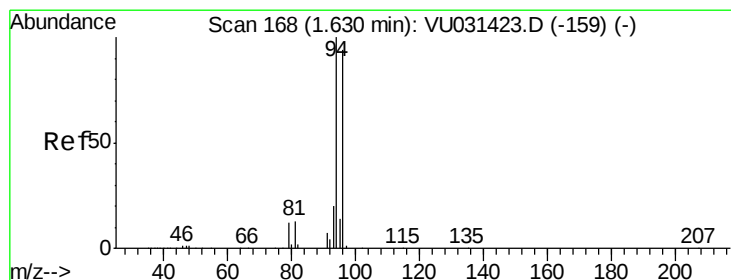
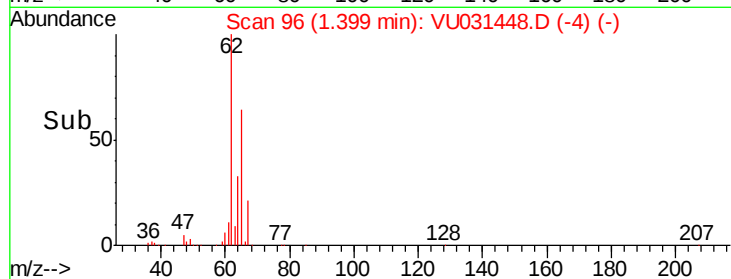
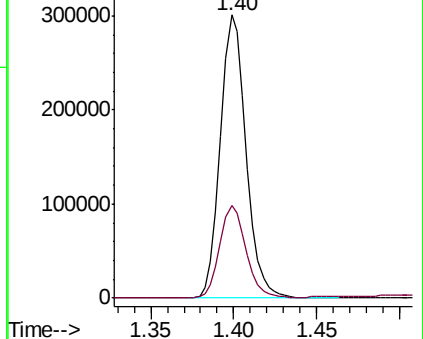
62 100

64 32.6 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU031423.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU031423.D (-88) (-)



#6

Bromomethane

Concen: 46.572 ug/L

RT: 1.63 min Scan# 167

Delta R.T. -0.00 min

Lab File: VU031448.D

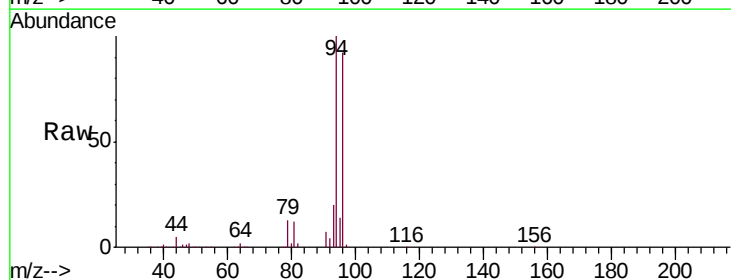
Acq: 23 Apr 2019 19:05

Tgt Ion: 94 Resp: 167822

Ion Ratio Lower Upper

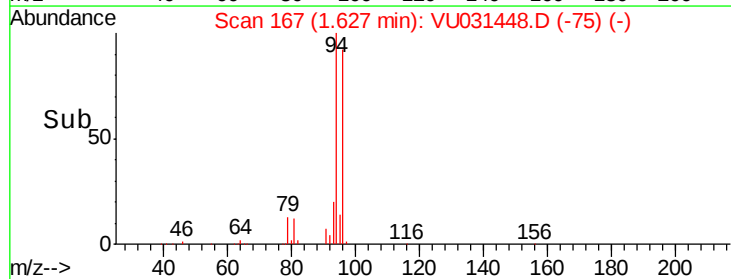
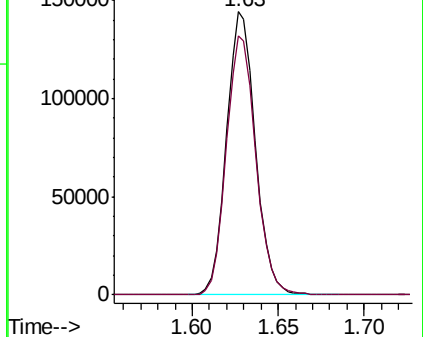
94 100

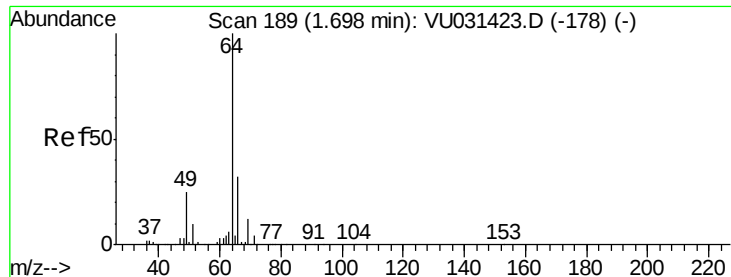
96 91.6 65.1 120.9



Abundance Ion 94.00 (93.70 to 94.70): VU031423.D (-159) (-)

Ion 96.00 (95.70 to 96.70): VU031423.D (-159) (-)

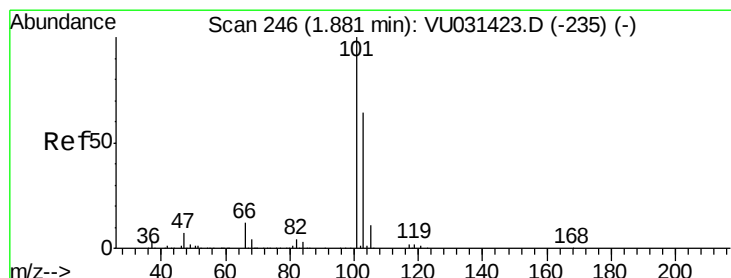
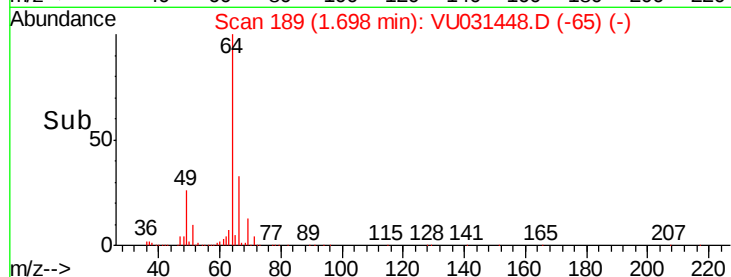
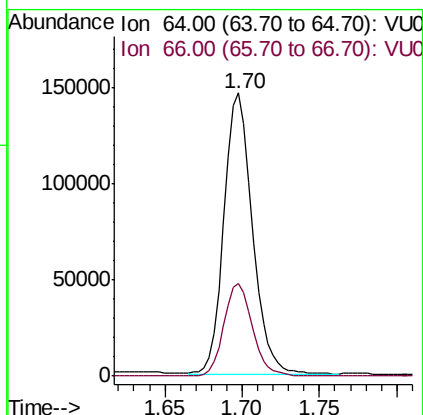
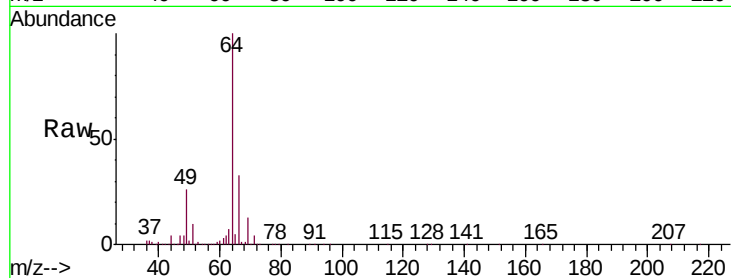




#8
Chloroethane
Concen: 52.702 ug/L
RT: 1.70 min Scan# 189
Delta R.T. -0.00 min
Lab File: VU031448.D
Acq: 23 Apr 2019 19:05

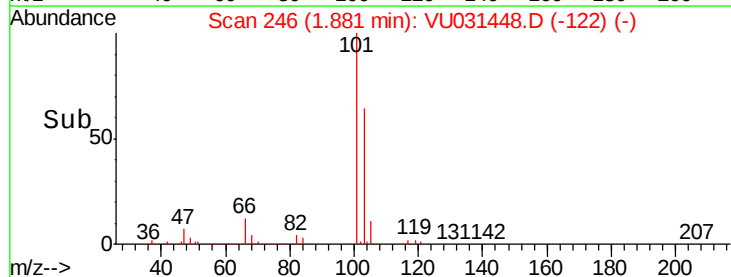
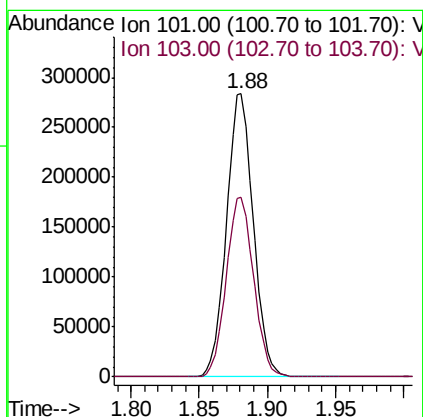
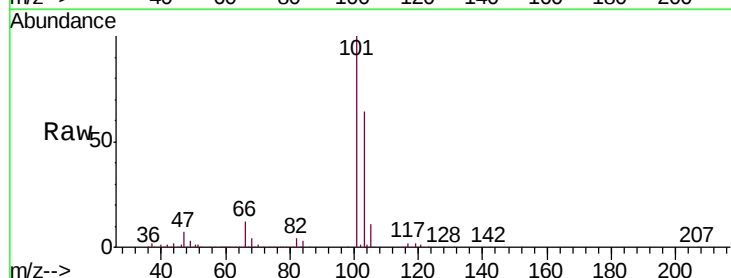
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

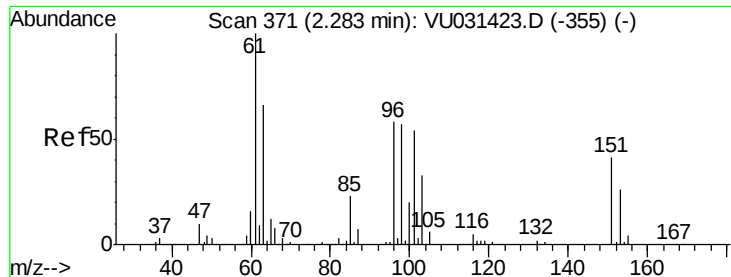
Tgt Ion: 64 Resp: 185406
Ion Ratio Lower Upper
64 100
66 32.9 22.1 41.1



#9
Trichlorofluoromethane
Concen: 52.473 ug/L
RT: 1.88 min Scan# 246
Delta R.T. -0.00 min
Lab File: VU031448.D
Acq: 23 Apr 2019 19:05

Tgt Ion: 101 Resp: 388233
Ion Ratio Lower Upper
101 100
103 64.9 51.4 77.2





#10

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

Concen: 53.861 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

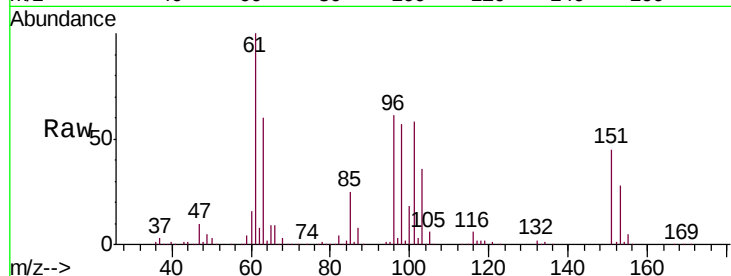
Tgt Ion: 101 Resp: 231172

Ion Ratio Lower Upper

101 100

85 42.2 33.1 49.7

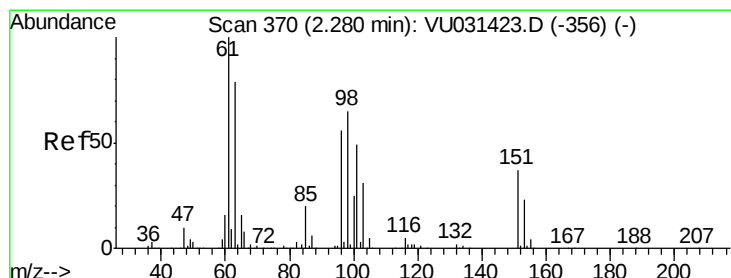
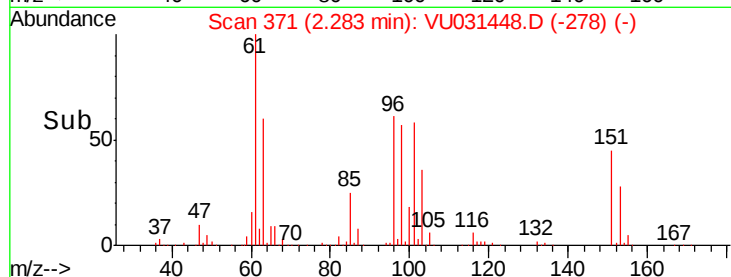
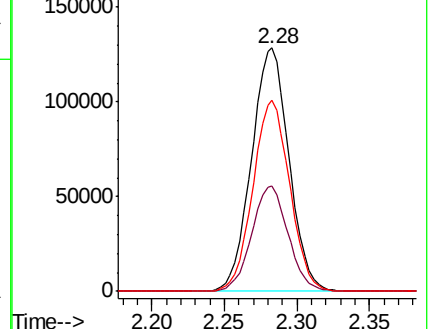
151 77.2 61.4 92.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 54.223 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

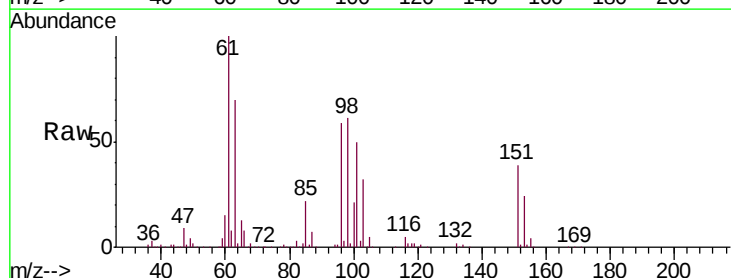
Tgt Ion: 96 Resp: 228941

Ion Ratio Lower Upper

96 100

61 168.4 118.9 220.9

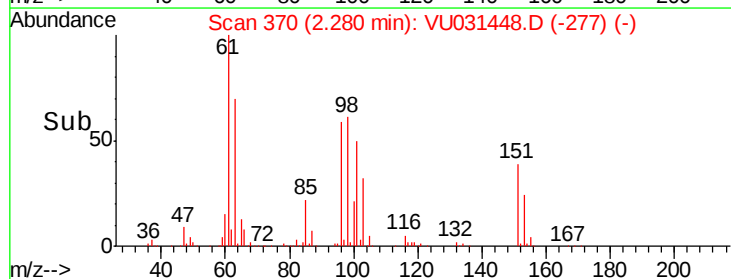
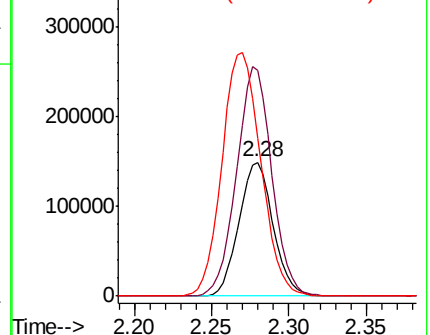
63 118.5 99.3 184.3

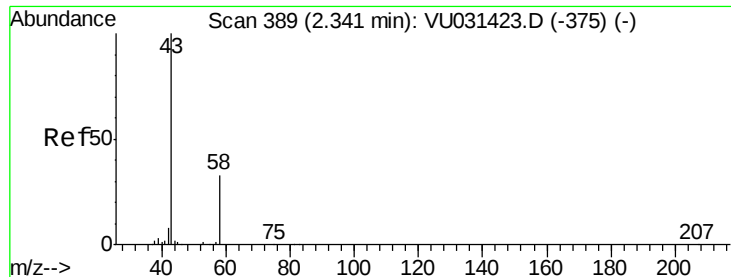


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 96.826 ug/L

RT: 2.34 min Scan# 389

Delta R.T. -0.00 min

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Acq: 23 Apr 2019 19:05

Instrument :

MSVOA_U

ClientSampleId :

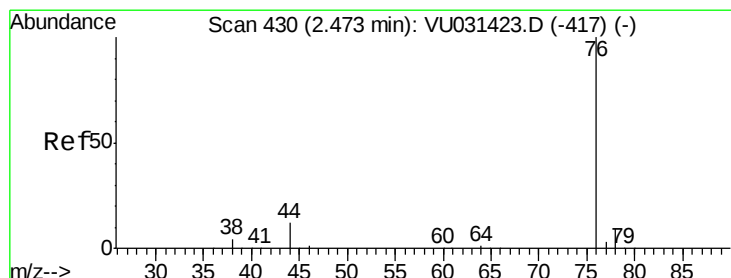
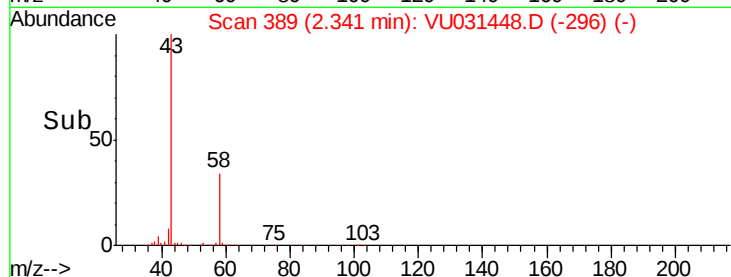
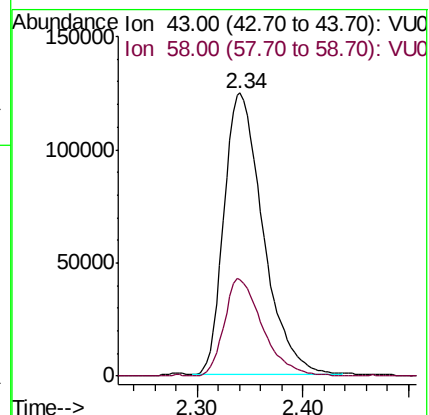
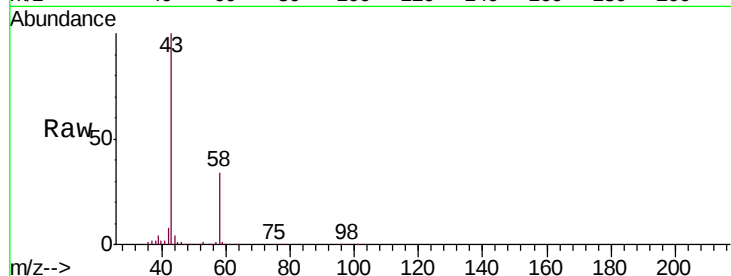
VSTD05048

Tgt Ion: 43 Resp: 319169

Ion Ratio Lower Upper

43 100

58 33.9 0.0 66.4



#14

Carbon disulfide

Concen: 51.162 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU031448.D

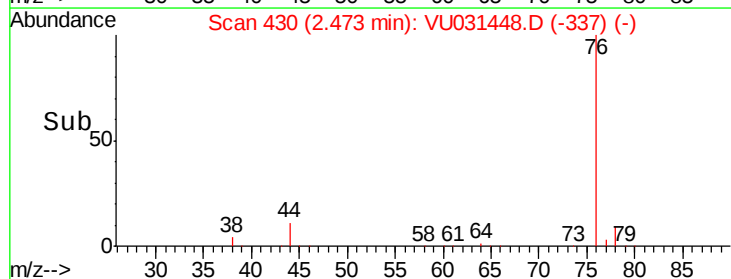
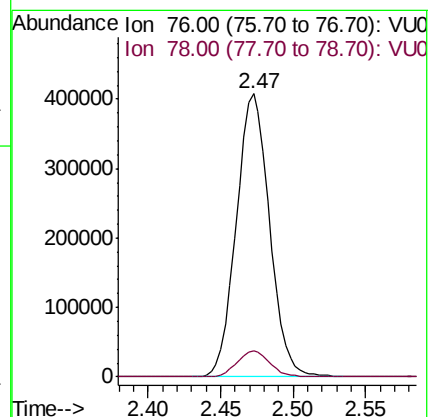
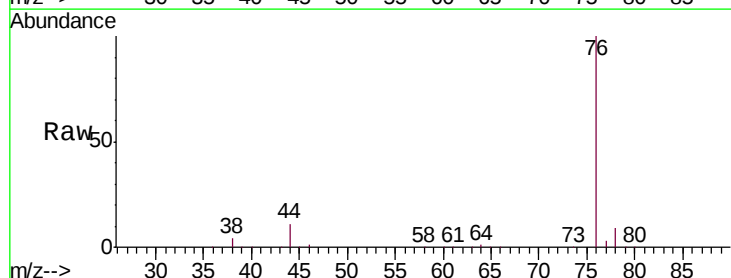
Acq: 23 Apr 2019 19:05

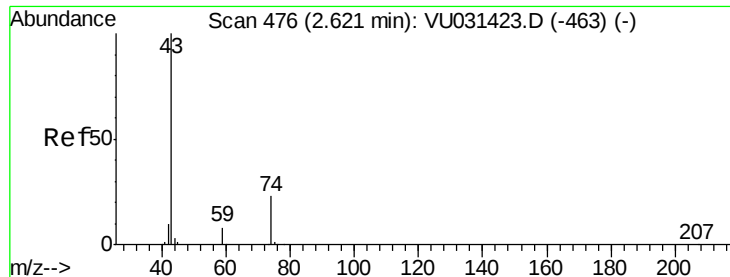
Tgt Ion: 76 Resp: 648367

Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.2

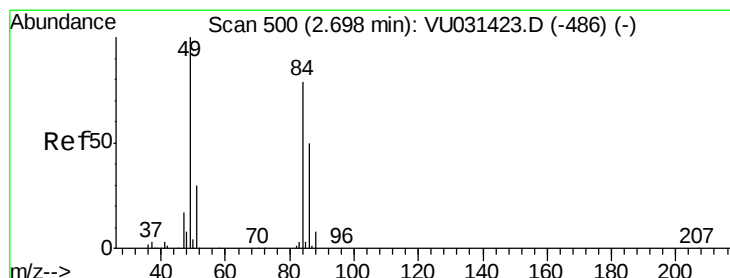
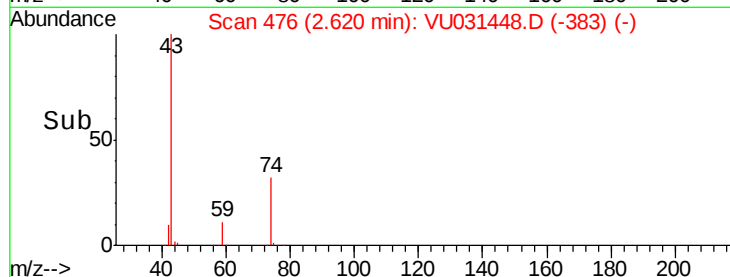
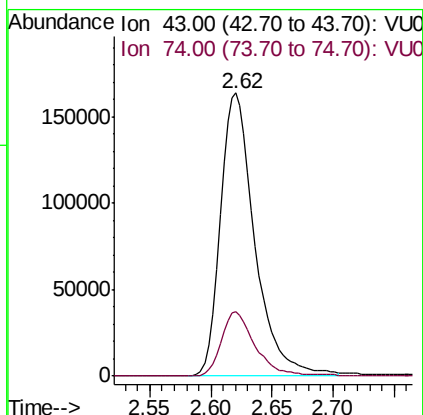
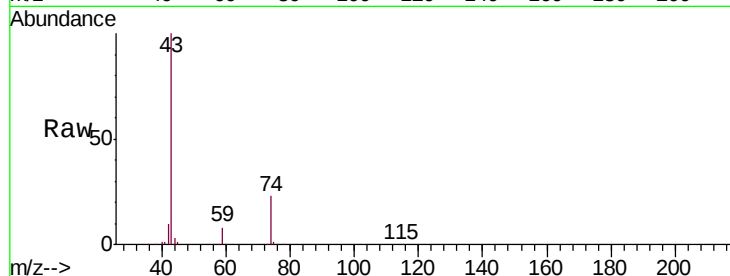




#15
Methyl Acetate
Concen: 53.573 ug/L
RT: 2.62 min Scan# 476
Delta R.T. -0.00 min
Lab File: VU031448.D
Acq: 23 Apr 2019 19:05

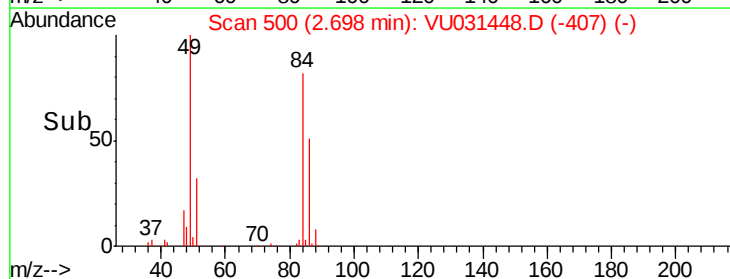
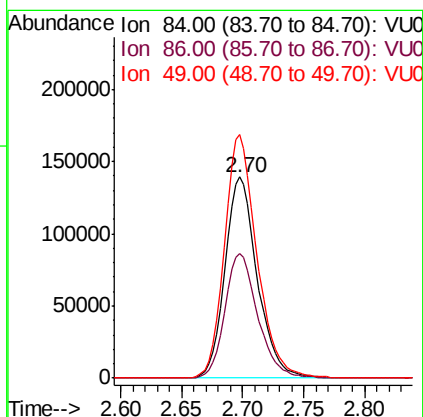
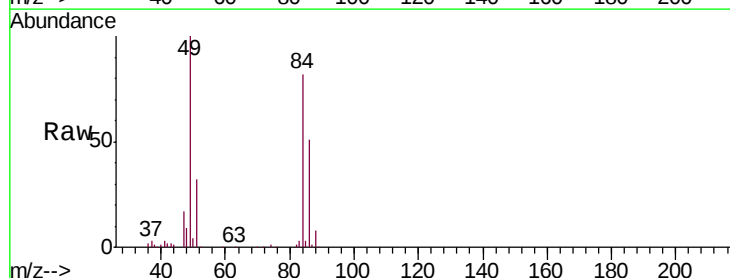
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

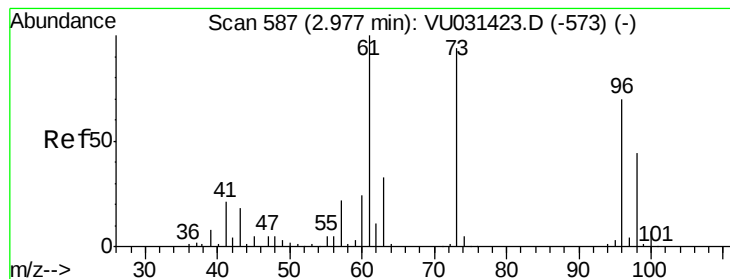
Tgt Ion: 43 Resp: 322596
Ion Ratio Lower Upper
43 100
74 22.2 18.1 27.1



#16
Methylene chloride
Concen: 53.677 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU031448.D
Acq: 23 Apr 2019 19:05

Tgt Ion: 84 Resp: 258193
Ion Ratio Lower Upper
84 100
86 62.2 44.4 82.5
49 121.3 86.7 161.1





#17

trans-1,2-Dichloroethene

Concen: 53.880 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

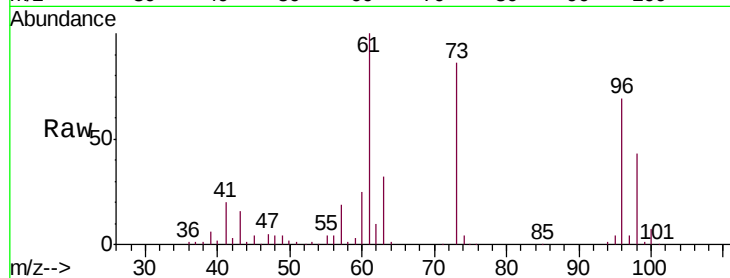
Tgt Ion: 96 Resp: 234632

Ion Ratio Lower Upper

96 100

61 143.9 100.3 186.3

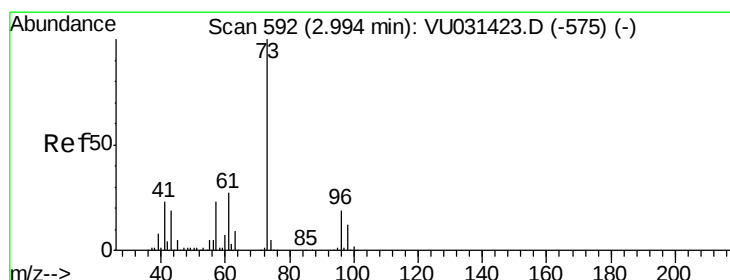
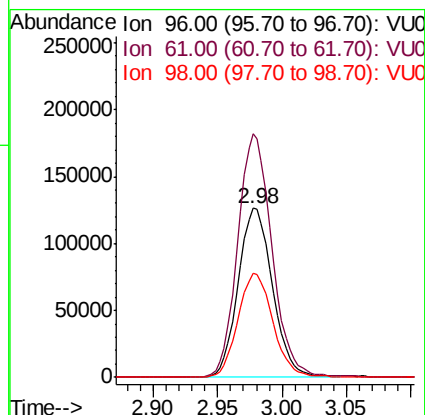
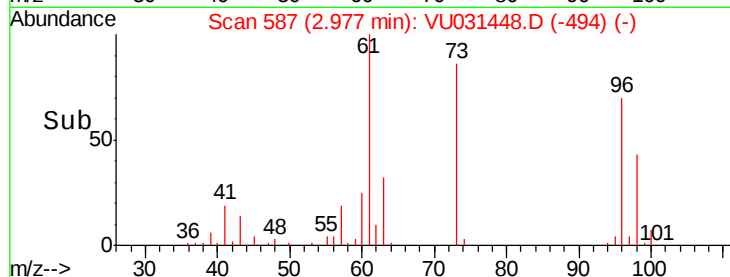
98 61.2 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU031423.D (-573) (-)

Ion 61.00 (60.70 to 61.70): VU031423.D (-573) (-)

Ion 98.00 (97.70 to 98.70): VU031423.D (-573) (-)



#18

Methyl tert-butyl Ether

Concen: 55.112 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

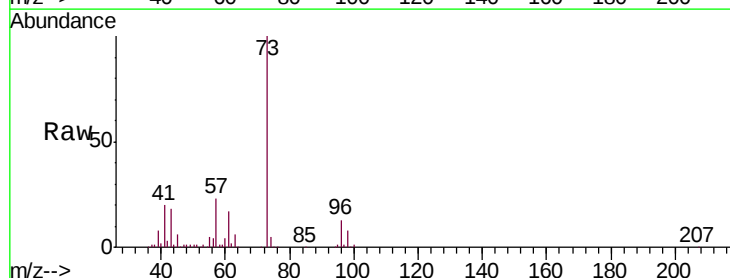
Tgt Ion: 73 Resp: 789309

Ion Ratio Lower Upper

73 100

43 18.1 14.6 21.8

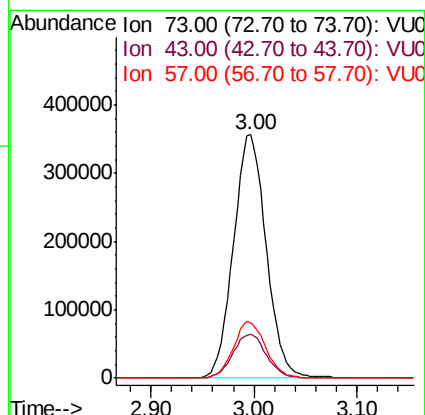
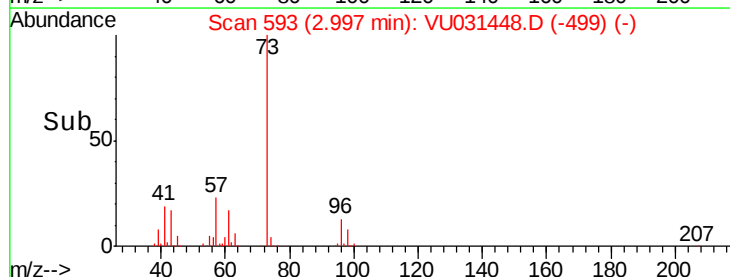
57 22.8 18.5 27.7

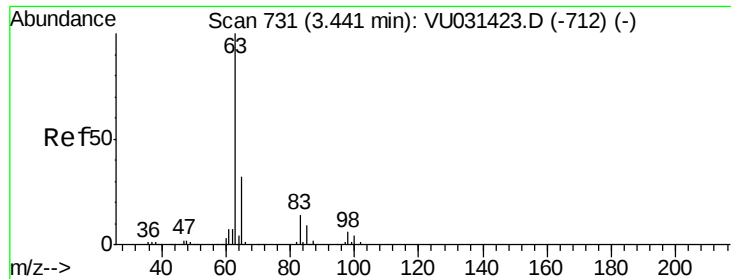


Abundance Ion 73.00 (72.70 to 73.70): VU031423.D (-575) (-)

Ion 43.00 (42.70 to 43.70): VU031423.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU031423.D (-575) (-)

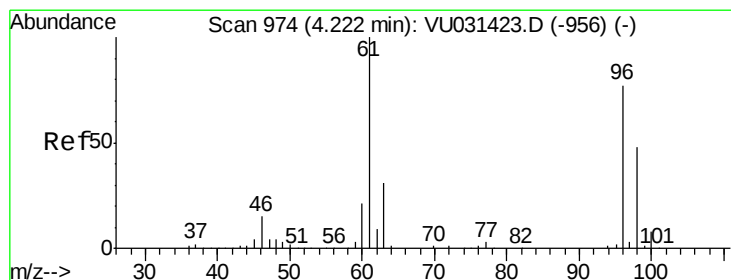
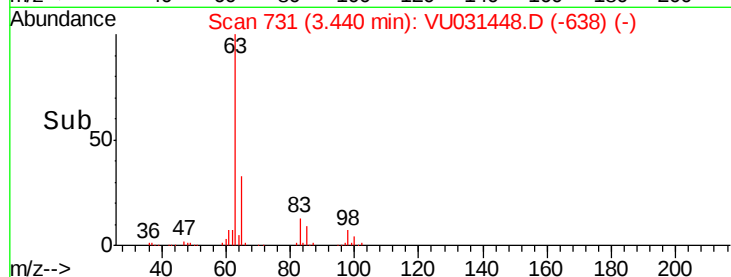
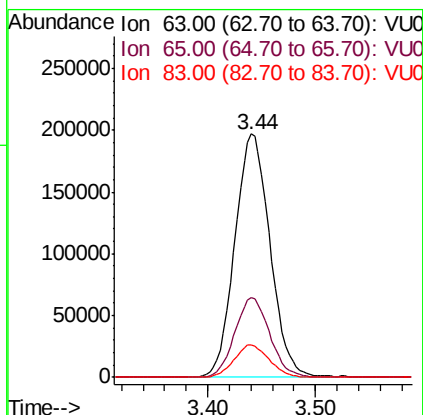
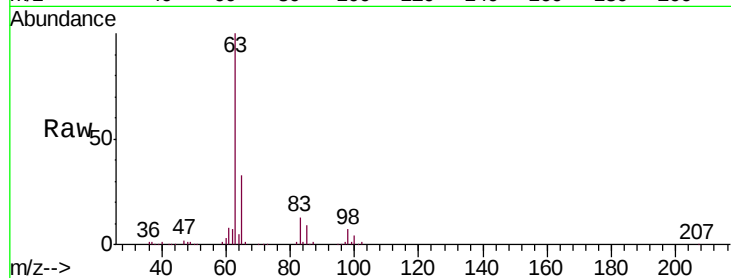




#19
 1,1-Dichloroethane
 Concen: 52.329 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU031448.D
 Acq: 23 Apr 2019 19:05

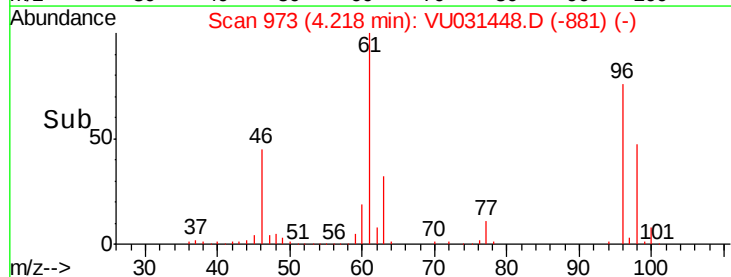
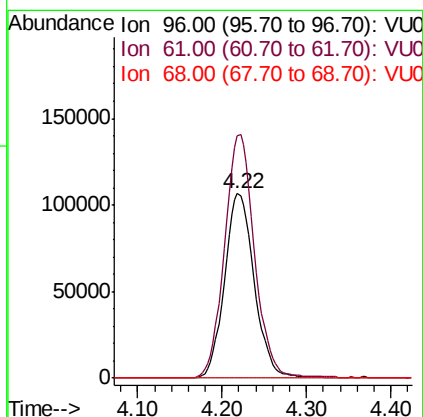
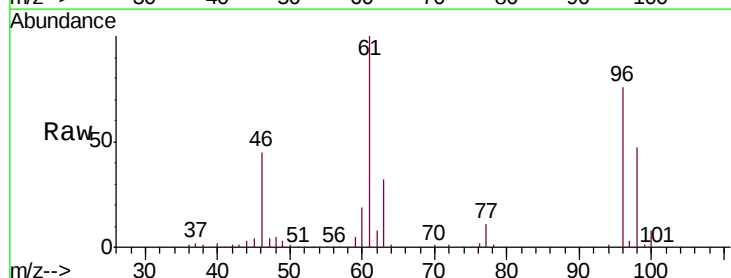
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

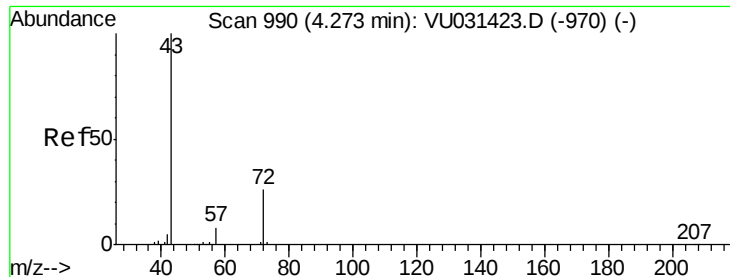
Tgt Ion: 63 Resp: 445471
 Ion Ratio Lower Upper
 63 100
 65 32.9 21.2 39.4
 83 13.1 9.2 17.2



#20
 cis-1,2-Dichloroethene
 Concen: 52.832 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU031448.D
 Acq: 23 Apr 2019 19:05

Tgt Ion: 96 Resp: 261044
 Ion Ratio Lower Upper
 96 100
 61 131.8 91.9 170.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 105.205 ug/L

RT: 4.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Instrument :

MSVOA_U

ClientSampleId :

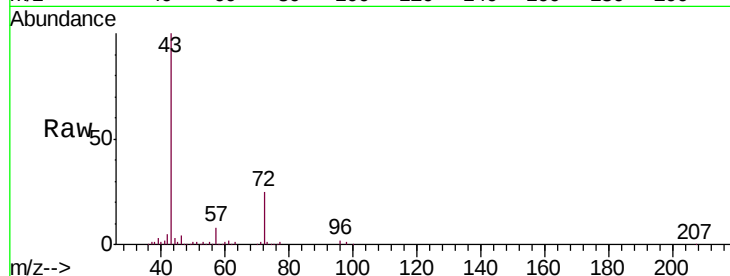
VSTD05048

Tgt Ion: 43 Resp: 449401

Ion Ratio Lower Upper

43 100

72 25.2 12.6 37.8



Abundance Ion 43.00 (42.70 to 43.70): VU031423.D (-970) (-)

Ion 72.00 (71.70 to 72.70): VU031423.D (-970) (-)

4.27

150000

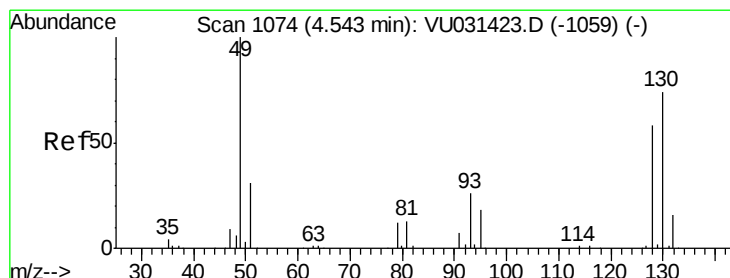
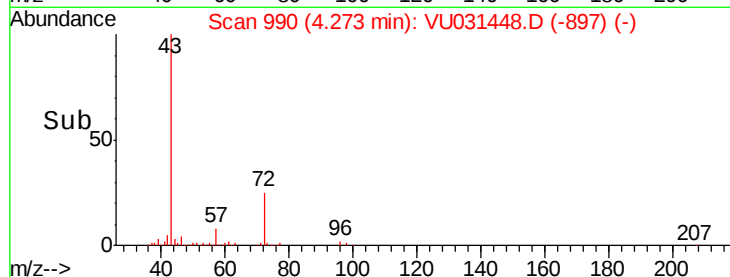
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 52.375 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Tgt Ion: 128 Resp: 129789

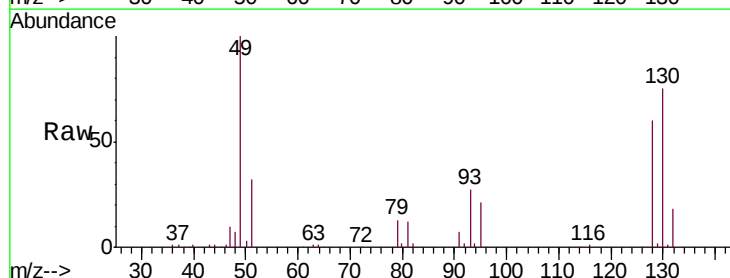
Ion Ratio Lower Upper

128 100

49 165.8 120.1 223.1

130 124.2 88.5 164.3

51 52.7 43.0 64.4



Abundance Ion 128.00 (127.70 to 128.70): VU031423.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU031423.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU031423.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU031423.D (-1059) (-)

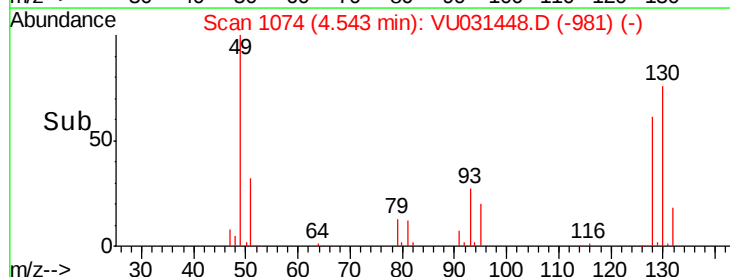
100000

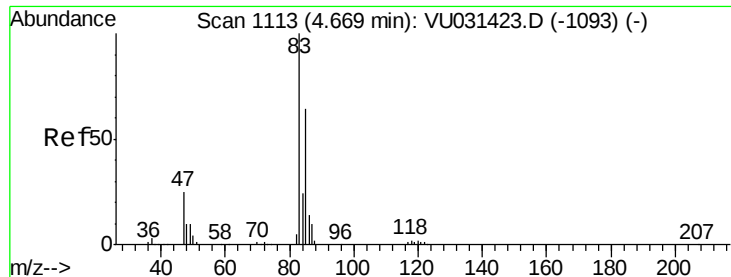
50000

0

4.45 4.50 4.55 4.60 4.65

Time-->





#25

Chloroform

Concen: 55.180 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Instrument :

MSVOA_U

ClientSampleId :

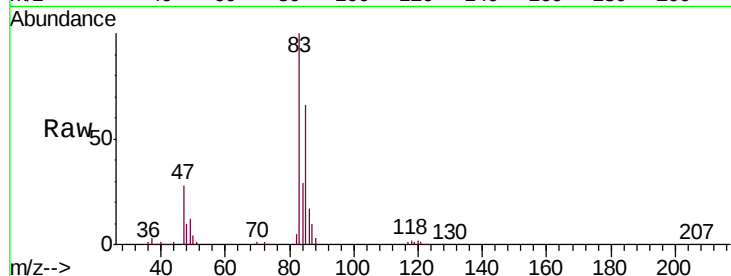
VSTD05048

Tgt Ion: 83 Resp: 452735

Ion Ratio Lower Upper

83 100

85 65.7 43.0 79.8



Abundance Ion 83.00 (82.70 to 83.70): VU031448.D (-1093) (-)

Ion 85.00 (84.70 to 85.70): VU031448.D (-1093) (-)

4.67

200000

150000

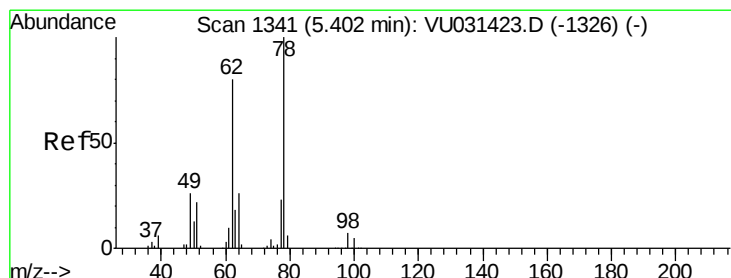
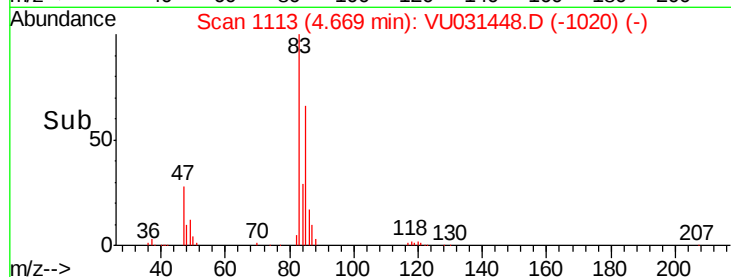
100000

50000

0

4.60 4.70

Time-->



#27

1,2-Dichloroethane

Concen: 51.217 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VU031448.D

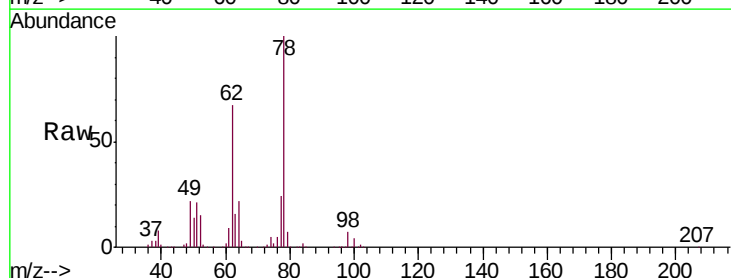
Acq: 23 Apr 2019 19:05

Tgt Ion: 62 Resp: 313389

Ion Ratio Lower Upper

62 100

98 9.9 7.3 10.9



Abundance Ion 62.00 (61.70 to 62.70): VU031448.D (-1326) (-)

Ion 98.00 (97.70 to 98.70): VU031448.D (-1326) (-)

5.40

150000

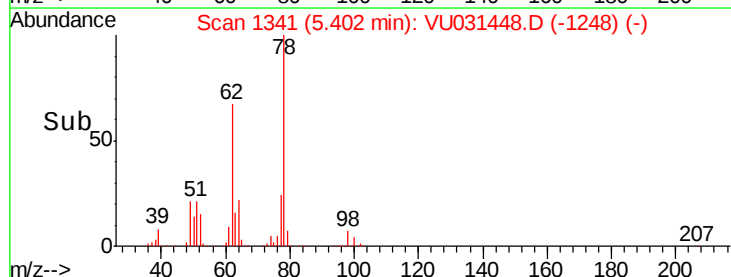
100000

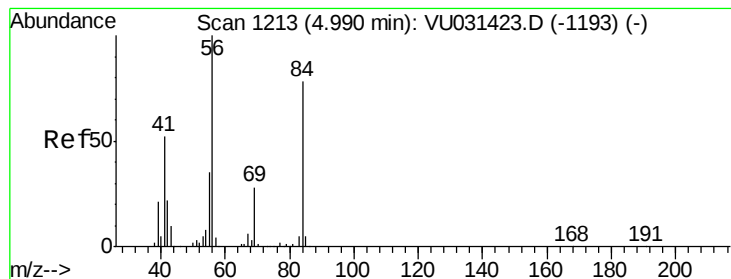
50000

0

5.30 5.35 5.40 5.45 5.50

Time-->





#29

Cyclohexane

Concen: 55.340 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

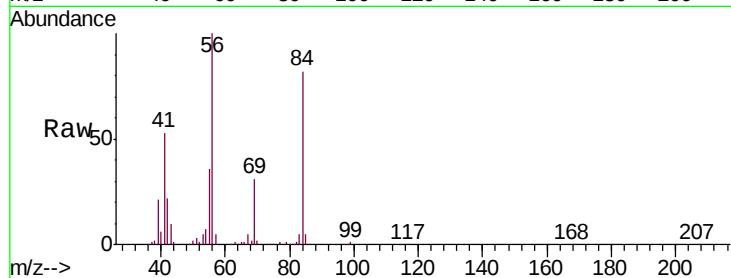
Tgt Ion: 56 Resp: 431589

Ion Ratio Lower Upper

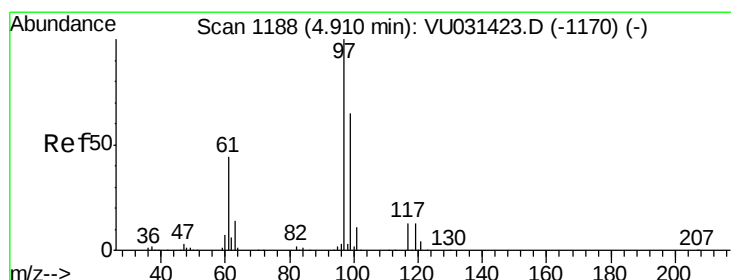
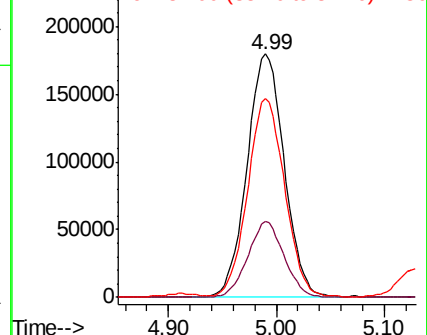
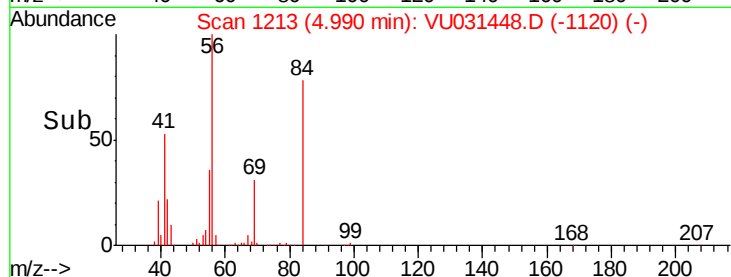
56 100

69 30.2 23.3 34.9

84 80.8 64.6 96.8



Abundance Ion 56.00 (55.70 to 56.70): VU031448.D (-1120) (-)



#30

1,1,1-Trichloroethane

Concen: 54.480 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

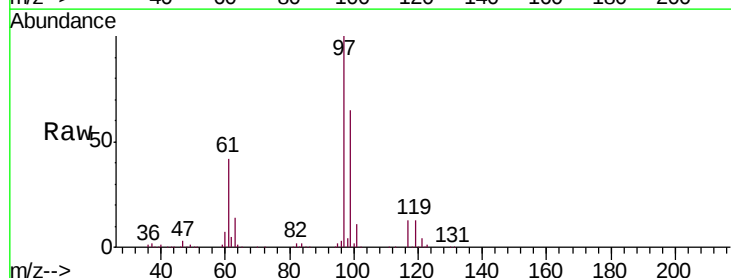
Tgt Ion: 97 Resp: 373313

Ion Ratio Lower Upper

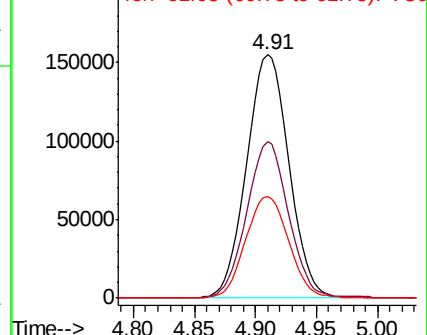
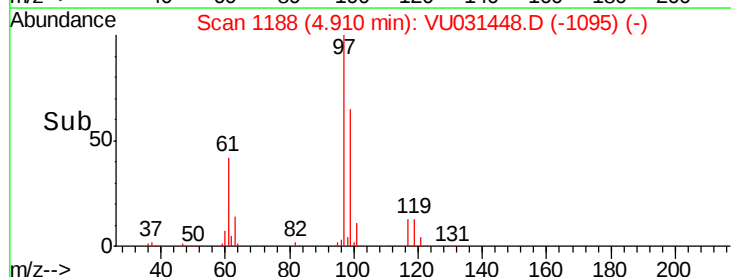
97 100

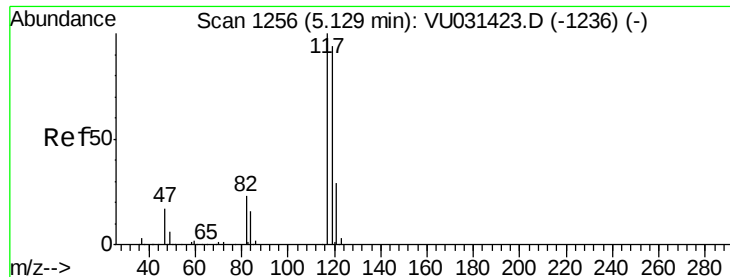
99 63.3 52.0 78.0

61 42.5 33.9 50.9



Abundance Ion 97.00 (96.70 to 97.70): VU031448.D (-1095) (-)





#31

Carbon tetrachloride

Concen: 53.742 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Instrument :

MSVOA_U

ClientSampleId :

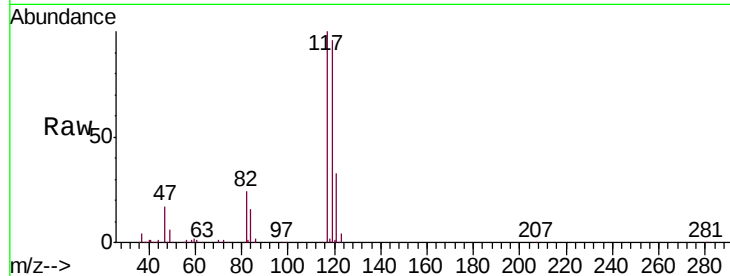
VSTD05048

Tgt Ion:117 Resp: 315286

Ion Ratio Lower Upper

117 100

119 96.3 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

150000

100000

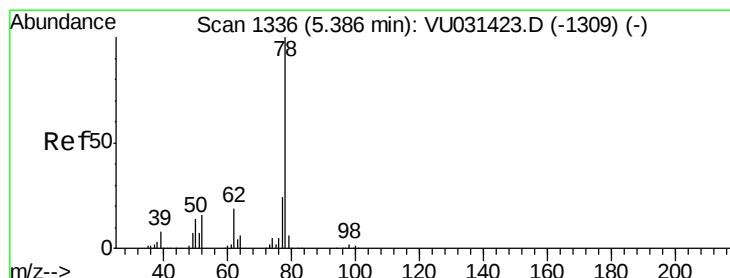
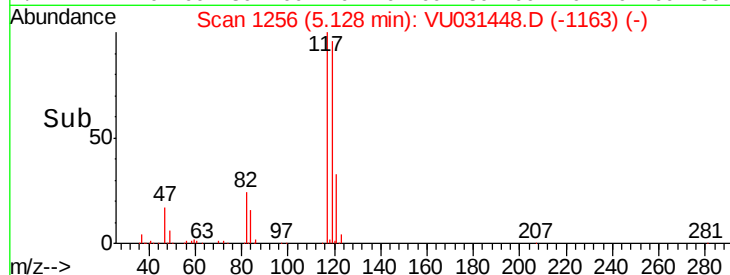
50000

0

5.13

5.00 5.10 5.20

Time-->



#33

Benzene

Concen: 53.001 ug/L

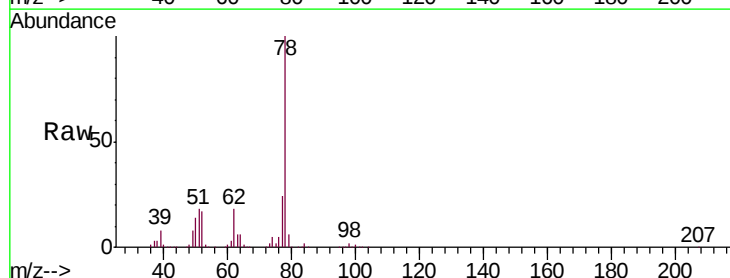
RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Tgt Ion: 78 Resp: 985828



Abundance Ion 78.00 (77.70 to 78.70): VU0

500000

400000

300000

200000

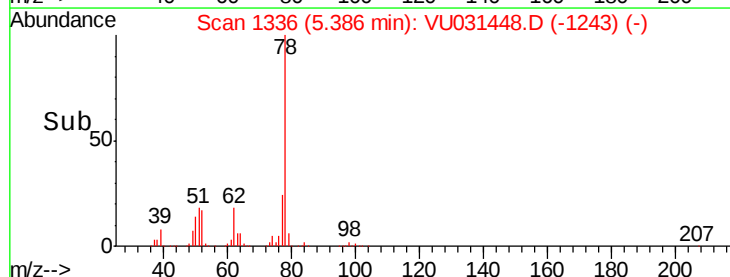
100000

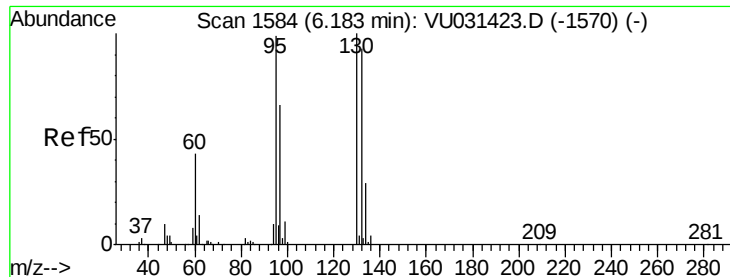
0

5.39

5.30 5.40 5.50

Time-->





#34

Trichloroethene

Concen: 53.275 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

Tgt Ion: 95 Resp: 262441

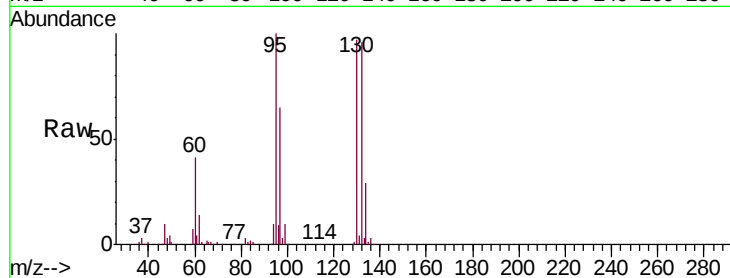
Ion Ratio Lower Upper

95 100

97 64.6 44.9 83.5

132 96.1 68.0 126.2

130 96.6 70.1 130.1

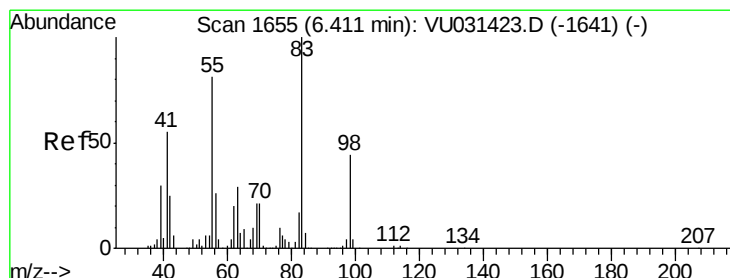
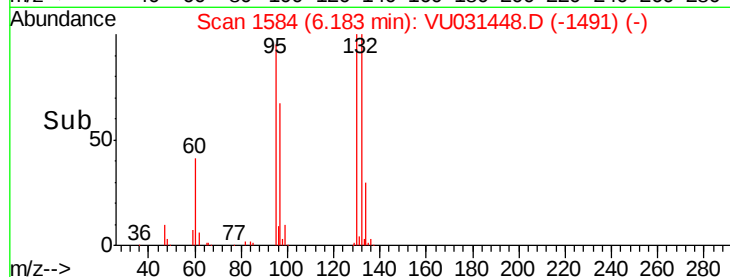
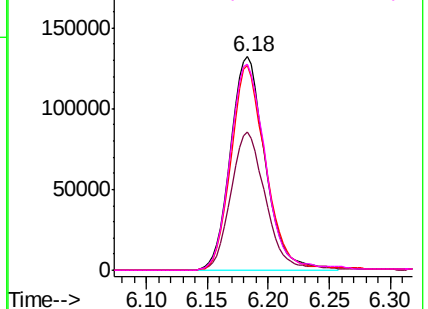


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 51.400 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

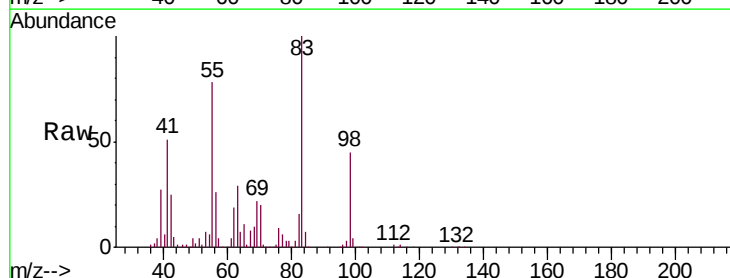
Tgt Ion: 83 Resp: 370515

Ion Ratio Lower Upper

83 100

55 80.4 65.4 98.0

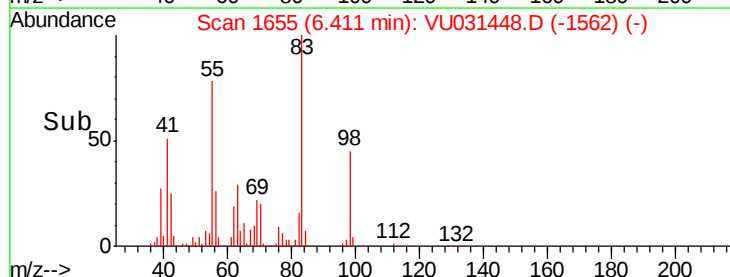
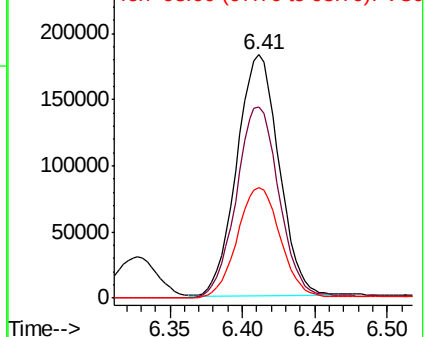
98 46.9 36.8 55.2

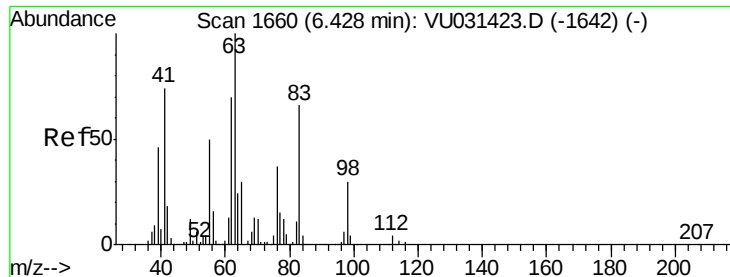


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

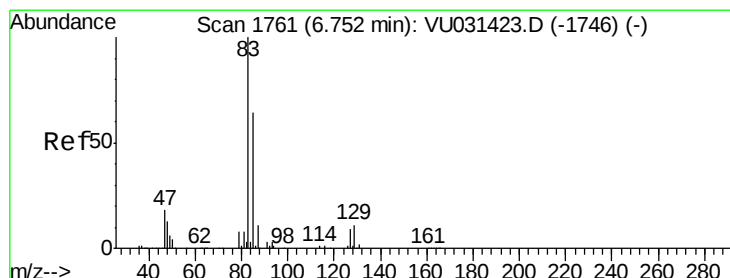
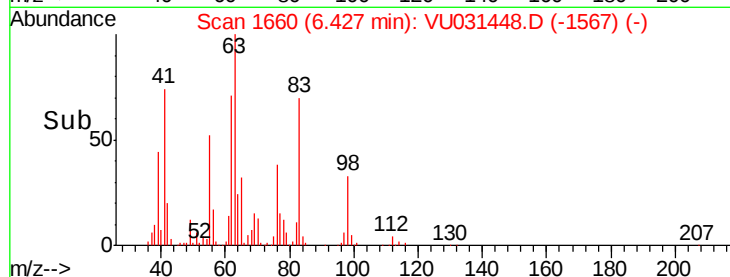
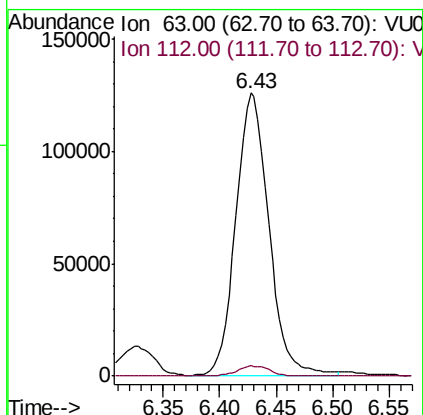
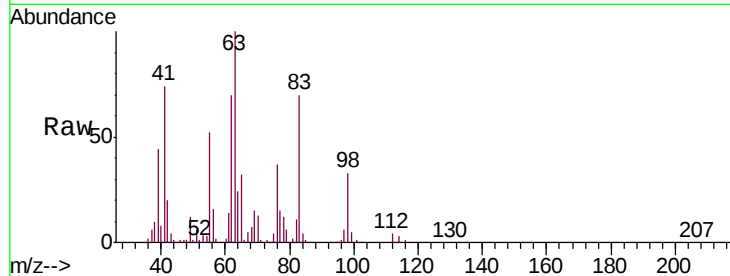




#37
 1,2-Dichloropropane
 Concen: 51.489 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU031448.D
 Acq: 23 Apr 2019 19:05

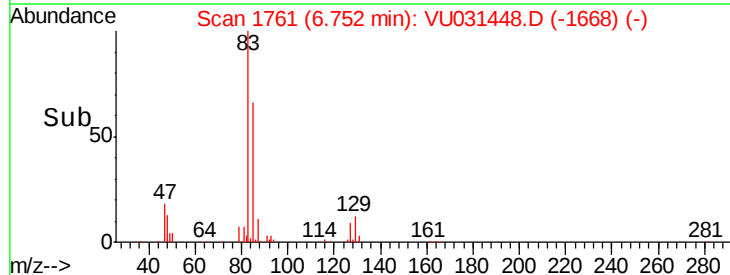
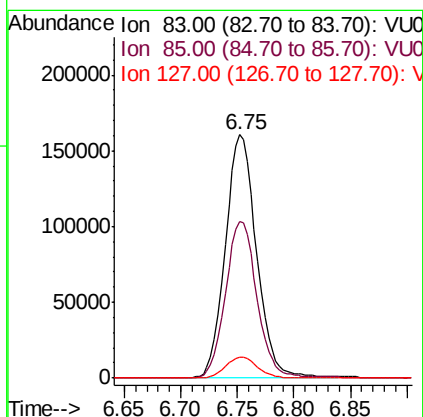
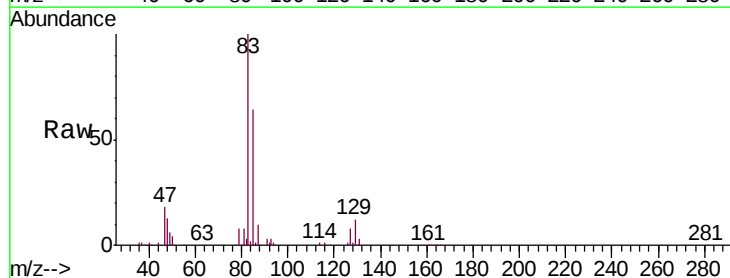
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

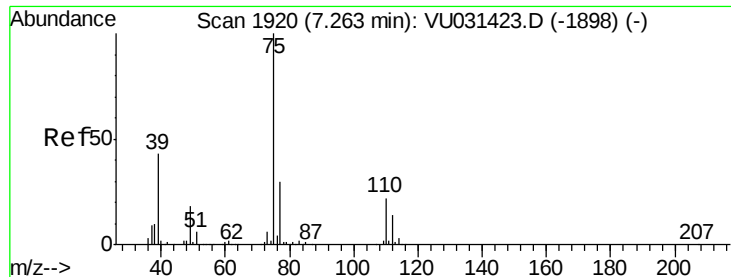
Tgt Ion: 63 Resp: 255131
 Ion Ratio Lower Upper
 63 100
 112 3.6 3.0 4.4



#38
 Bromodichloromethane
 Concen: 50.542 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU031448.D
 Acq: 23 Apr 2019 19:05

Tgt Ion: 83 Resp: 307210
 Ion Ratio Lower Upper
 83 100
 85 64.2 45.0 83.6
 127 8.5 6.7 10.1

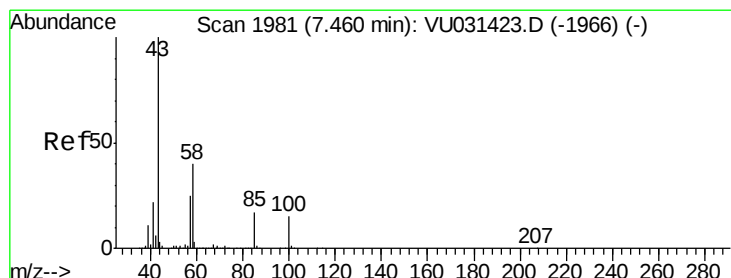
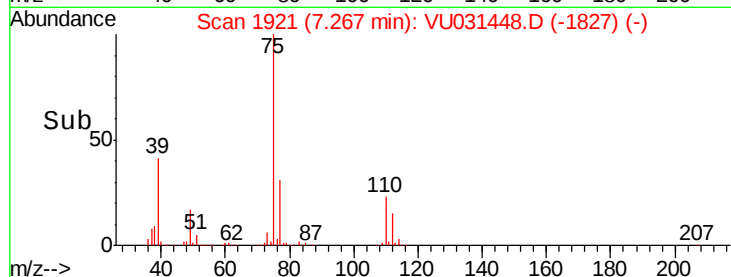
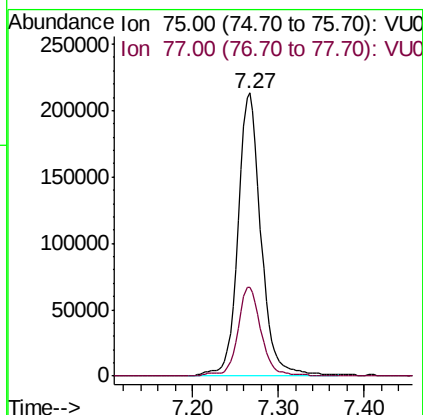
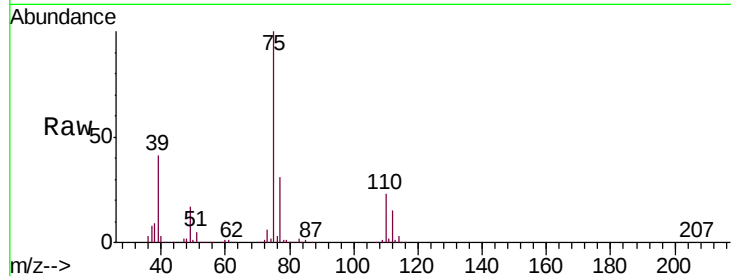




#39
 cis-1,3-Dichloropropene
 Concen: 53.636 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU031448.D
 Acq: 23 Apr 2019 19:05

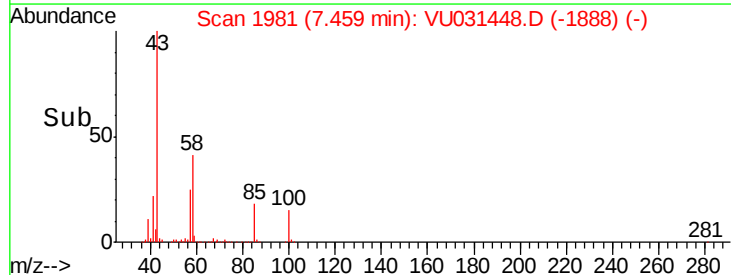
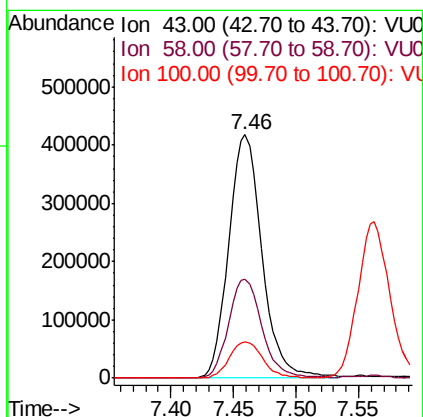
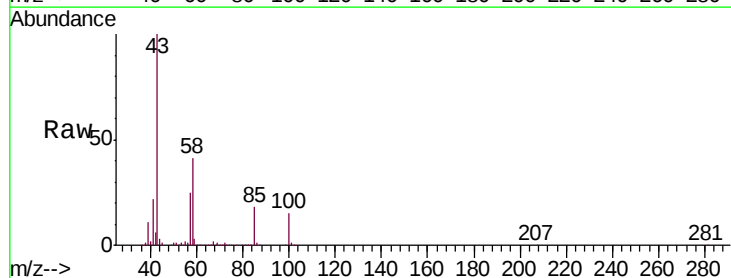
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

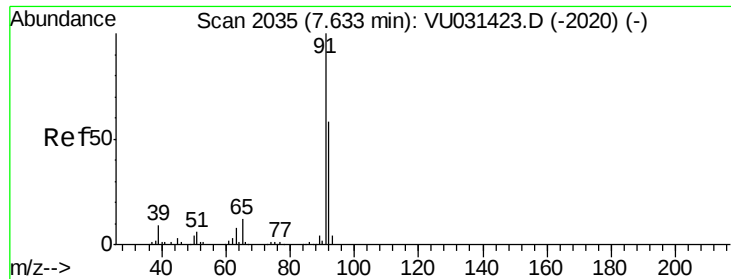
Tgt Ion: 75 Resp: 397763
 Ion Ratio Lower Upper
 75 100
 77 31.4 23.0 42.8



#40
 4-Methyl-2-pentanone
 Concen: 102.479 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. -0.00 min
 Lab File: VU031448.D
 Acq: 23 Apr 2019 19:05

Tgt Ion: 43 Resp: 771735
 Ion Ratio Lower Upper
 43 100
 58 40.9 32.3 48.5
 100 15.1 11.8 17.8





#42

Toluene

Concen: 52.020 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Instrument :

MSVOA_U

ClientSampleId :

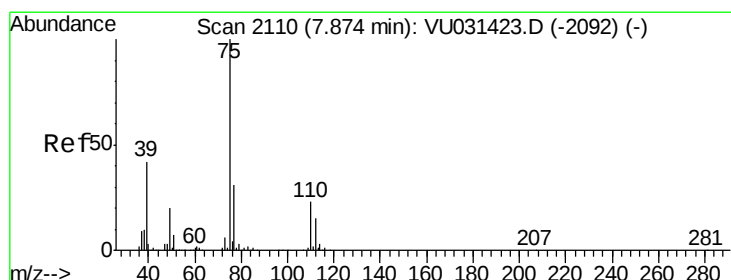
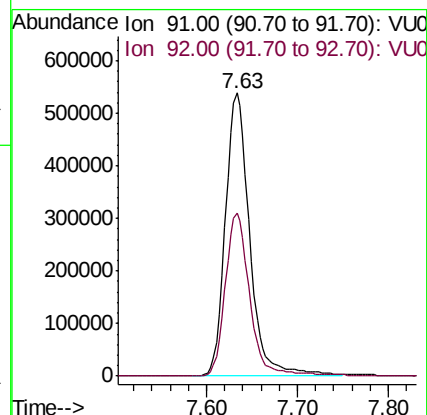
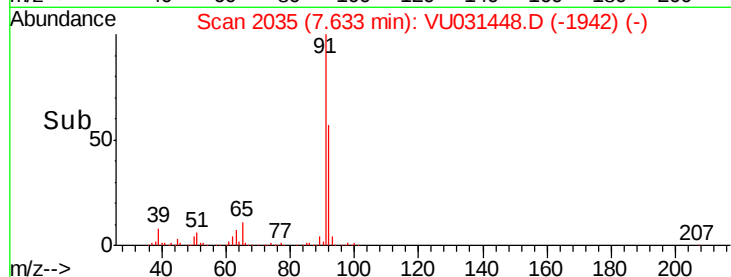
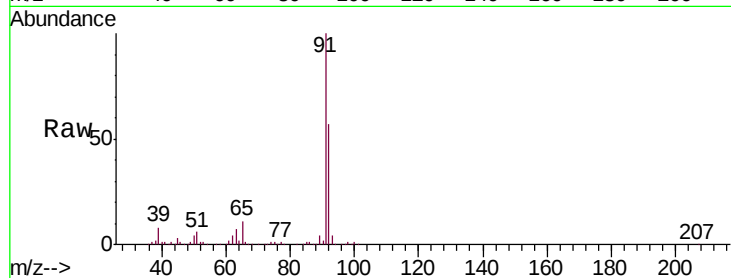
VSTD05048

Tgt Ion: 91 Resp: 1004091

Ion Ratio Lower Upper

91 100

92 57.5 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 51.315 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031448.D

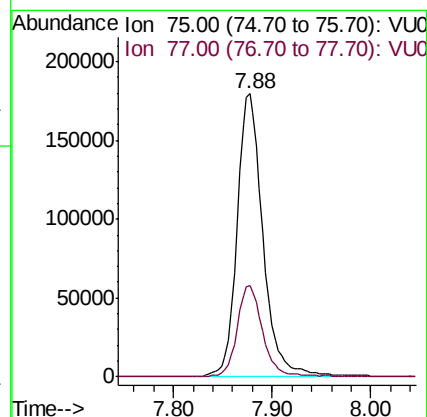
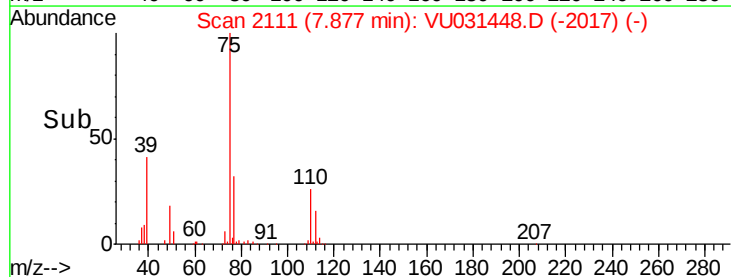
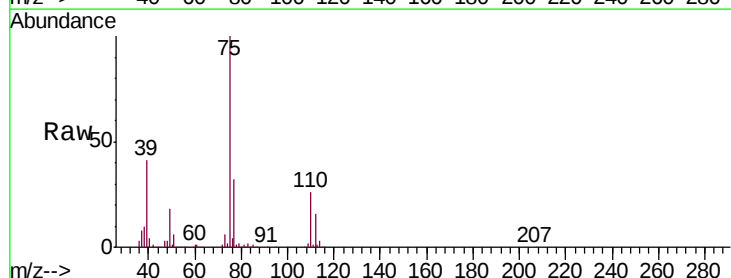
Acq: 23 Apr 2019 19:05

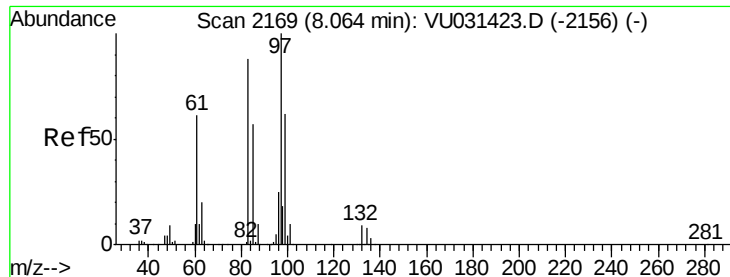
Tgt Ion: 75 Resp: 328034

Ion Ratio Lower Upper

75 100

77 32.2 22.3 41.3

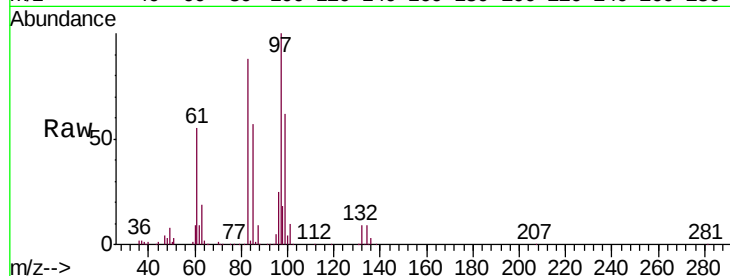




#45
 1,1,2-Trichloroethane
 Concen: 51.684 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU031448.D
 Acq: 23 Apr 2019 19:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tgt Ion:	97	Resp:	235215
Ion	Ratio	Lower	Upper
97	100		
99	61.8	44.9	83.3
83	87.6	62.5	116.1
85	56.6	39.6	73.6



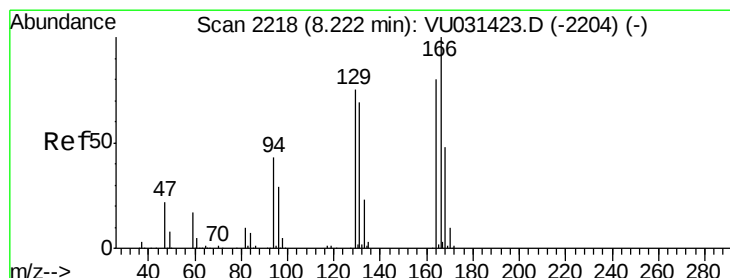
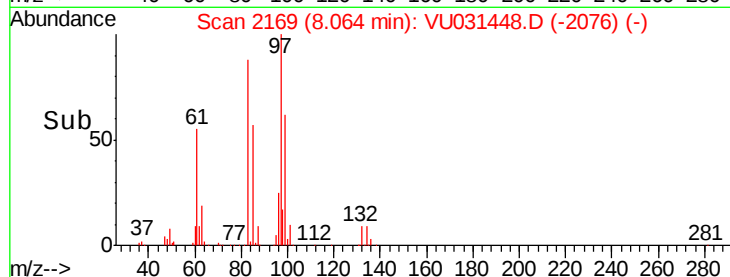
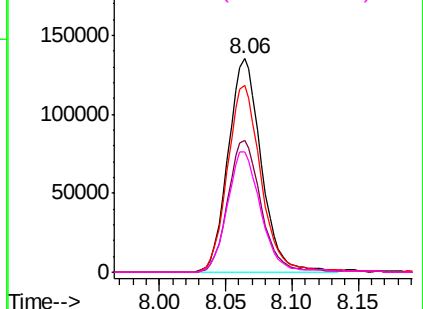
Abundance

Ion 97.00 (96.70 to 97.70): VU031423.D (-2156) (-)

Ion 99.00 (98.70 to 99.70): VU031423.D (-2156) (-)

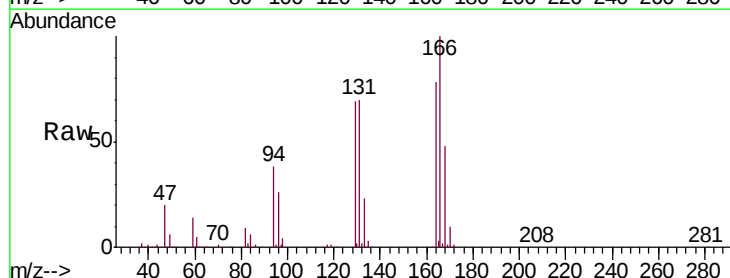
Ion 83.00 (82.70 to 83.70): VU031423.D (-2156) (-)

Ion 85.00 (84.70 to 85.70): VU031423.D (-2156) (-)



#46
 Tetrachloroethene
 Concen: 52.983 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU031448.D
 Acq: 23 Apr 2019 19:05

Tgt Ion:	164	Resp:	185110
Ion	Ratio	Lower	Upper
164	100		
129	88.9	65.2	121.0
131	89.7	61.4	114.0
166	128.6	89.2	165.6



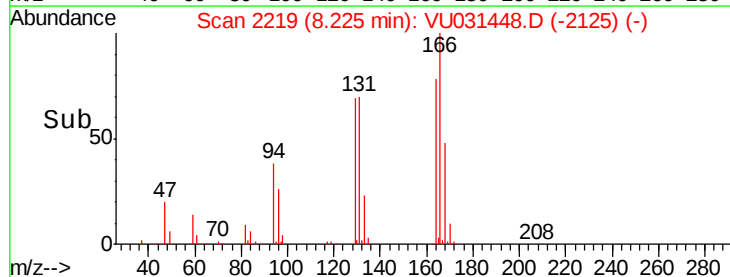
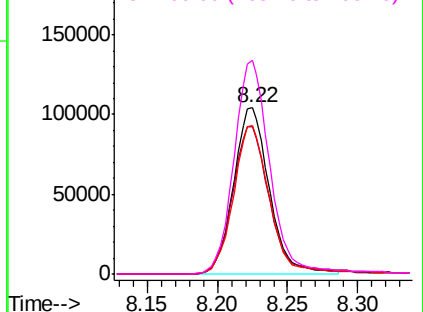
Abundance

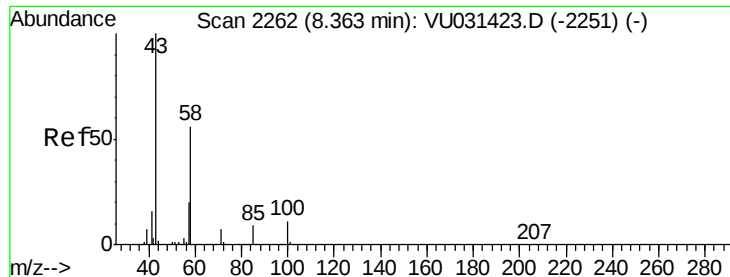
Ion 164.00 (163.70 to 164.70): VU031423.D (-2204) (-)

Ion 129.00 (128.70 to 129.70): VU031423.D (-2204) (-)

Ion 131.00 (130.70 to 131.70): VU031423.D (-2204) (-)

Ion 166.00 (165.70 to 166.70): VU031423.D (-2204) (-)

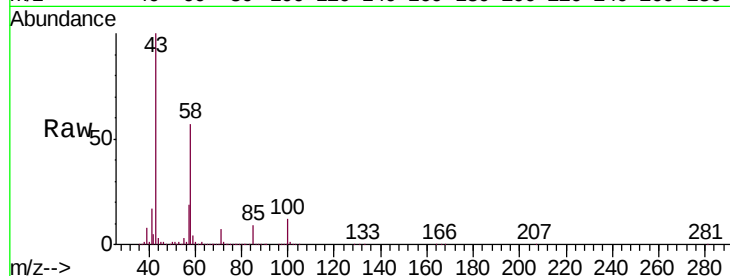




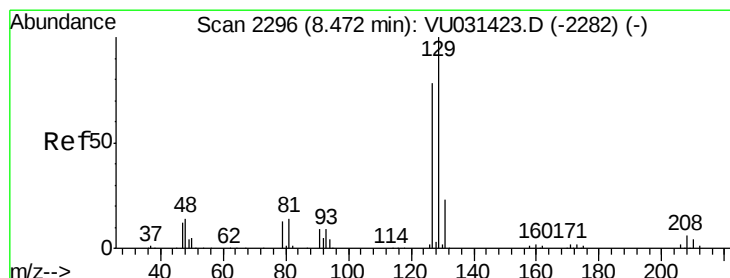
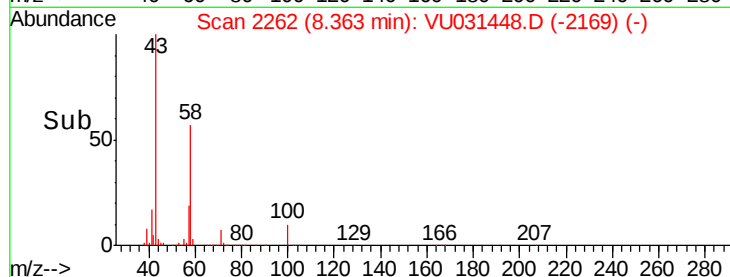
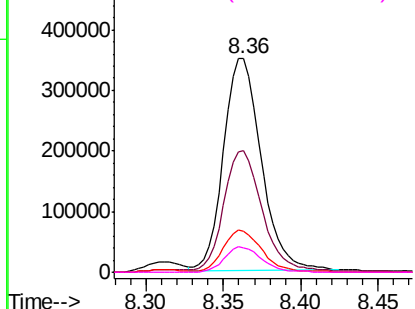
#48
2-Hexanone
Concen: 100.723 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. -0.00 min
Lab File: VU031448.D
Acq: 23 Apr 2019 19:05

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tgt Ion: 43 Resp: 591694
Ion Ratio Lower Upper
43 100
58 58.1 45.5 68.3
57 20.0 15.2 22.8
100 11.9 9.1 13.7

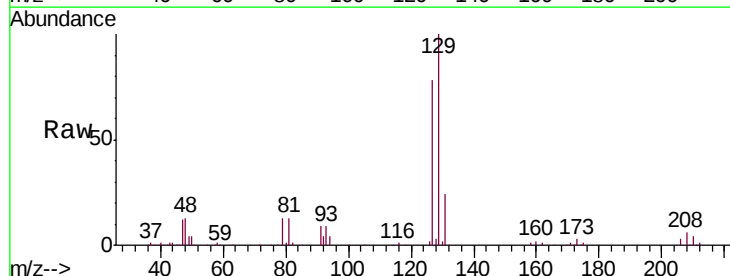


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

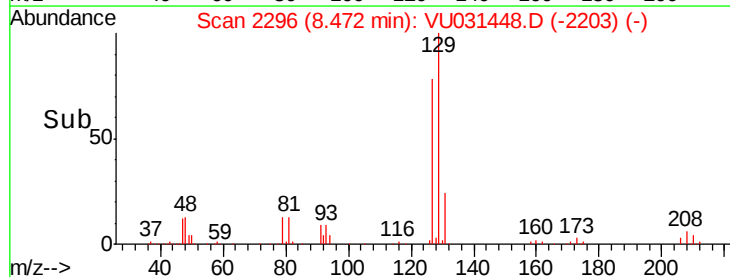
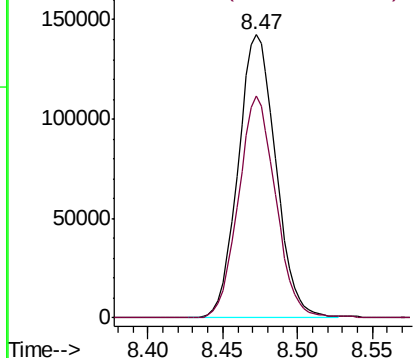


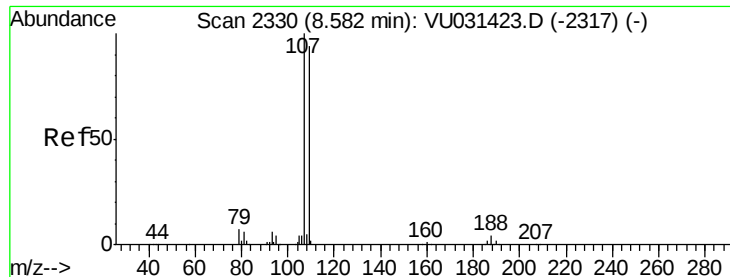
#49
Dibromochloromethane
Concen: 51.663 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU031448.D
Acq: 23 Apr 2019 19:05

Tgt Ion: 129 Resp: 249455
Ion Ratio Lower Upper
129 100
127 78.3 54.2 100.6



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

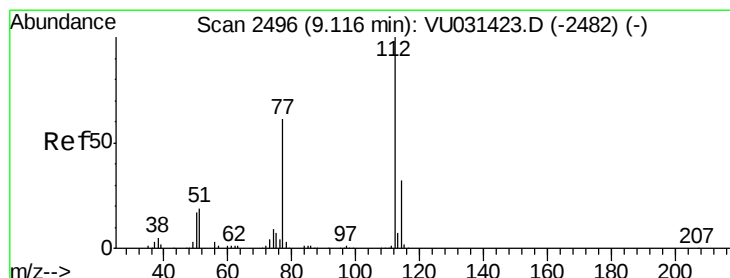
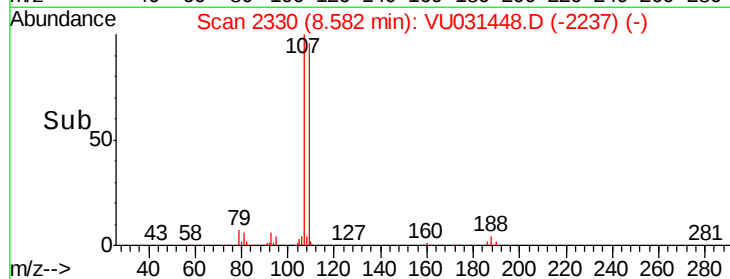
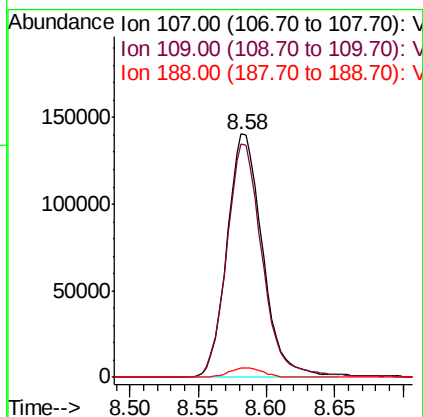
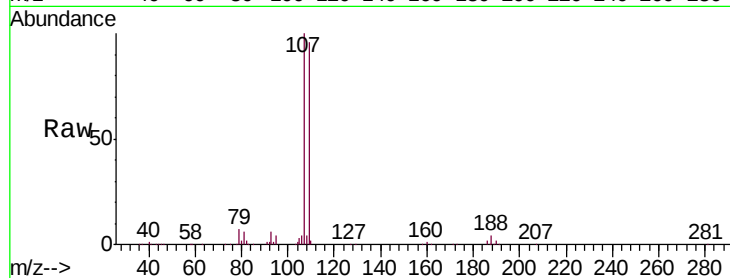




#50
 1,2-Dibromoethane
 Concen: 53.166 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. -0.00 min
 Lab File: VU031448.D
 Acq: 23 Apr 2019 19:05

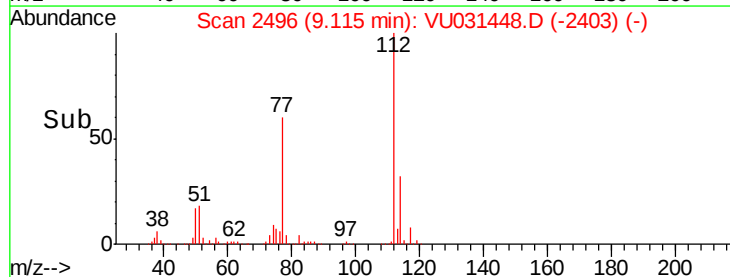
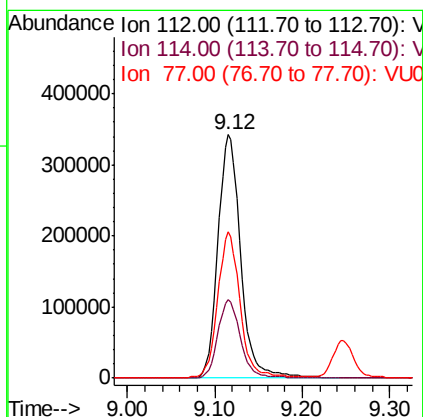
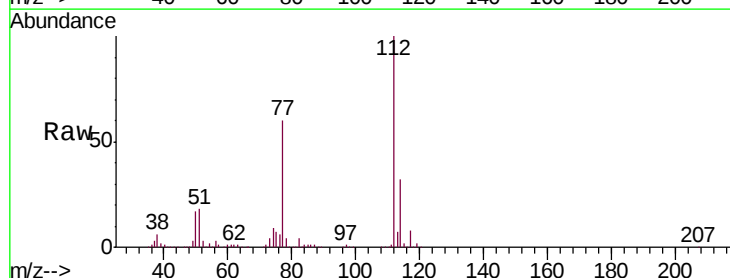
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

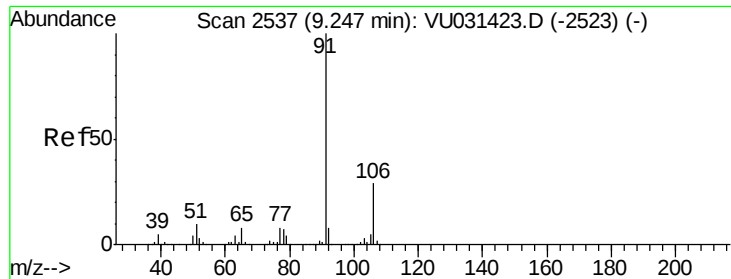
Tgt Ion:107 Resp: 254491
 Ion Ratio Lower Upper
 107 100
 109 95.7 66.6 123.8
 188 3.8 2.6 4.0



#51
 Chlorobenzene
 Concen: 51.636 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. -0.00 min
 Lab File: VU031448.D
 Acq: 23 Apr 2019 19:05

Tgt Ion:112 Resp: 618532
 Ion Ratio Lower Upper
 112 100
 114 32.0 23.0 42.8
 77 60.2 47.1 70.7





#52

Ethylbenzene

Concen: 51.982 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Instrument :

MSVOA_U

ClientSampleId :

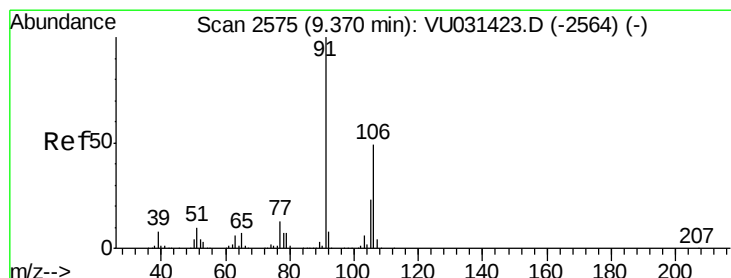
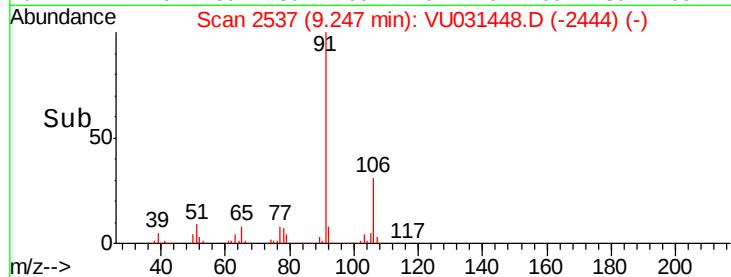
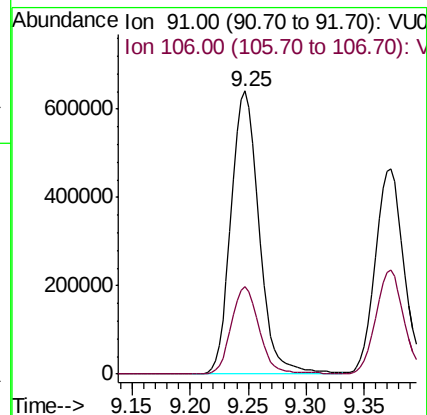
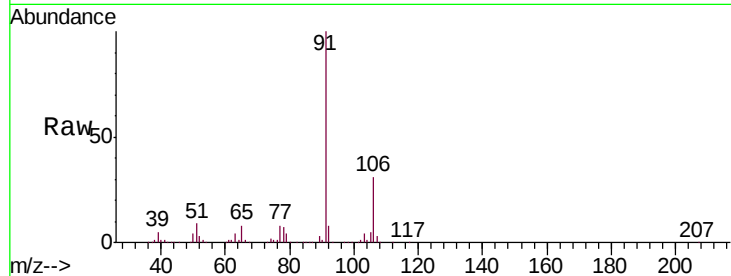
VSTD05048

Tgt Ion: 91 Resp: 1074902

Ion Ratio Lower Upper

91 100

106 30.8 21.3 39.5



#53

m,p-Xylene

Concen: 53.932 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU031448.D

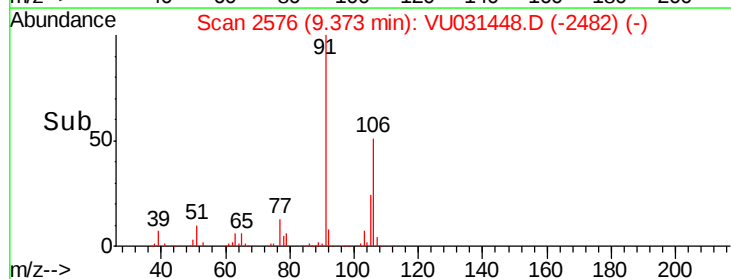
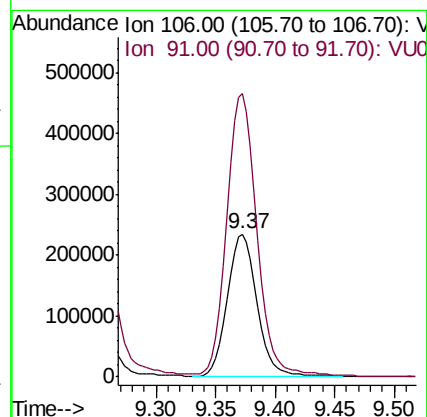
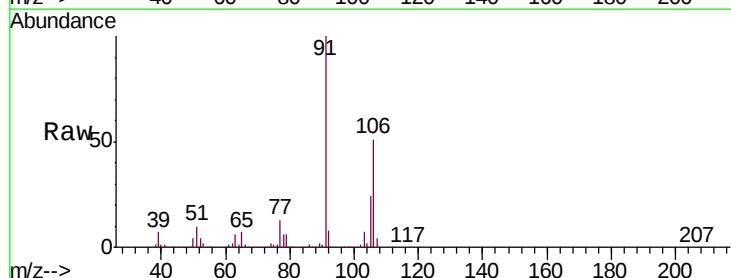
Acq: 23 Apr 2019 19:05

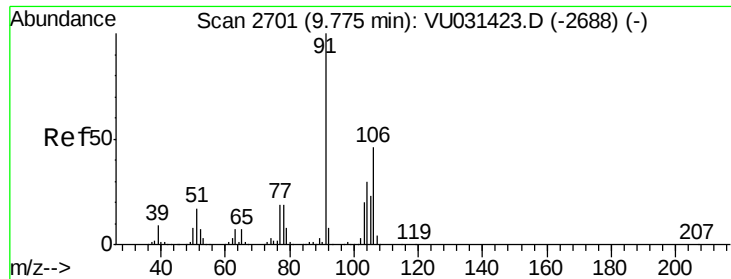
Tgt Ion: 106 Resp: 407034

Ion Ratio Lower Upper

106 100

91 197.7 141.5 262.7

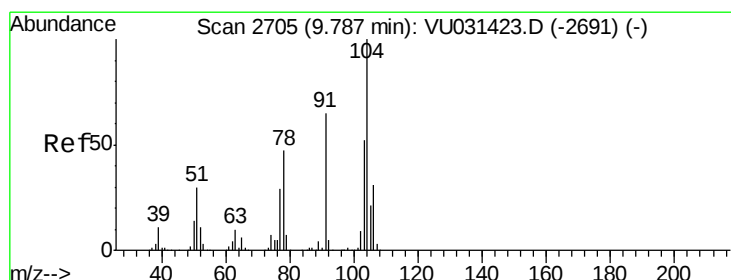
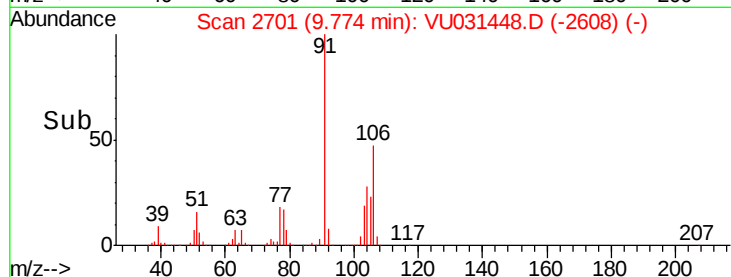
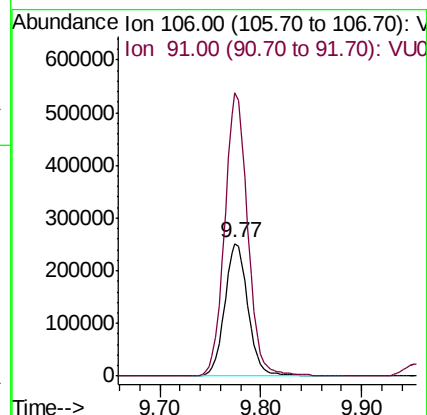
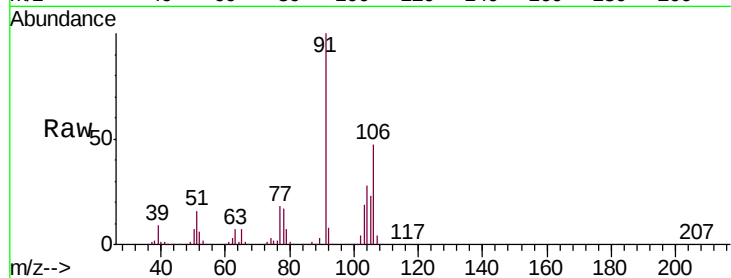




#54
o-xylene
Concen: 53.621 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU031448.D
Acq: 23 Apr 2019 19:05

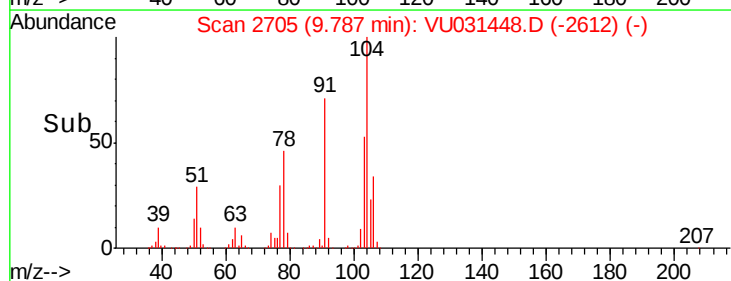
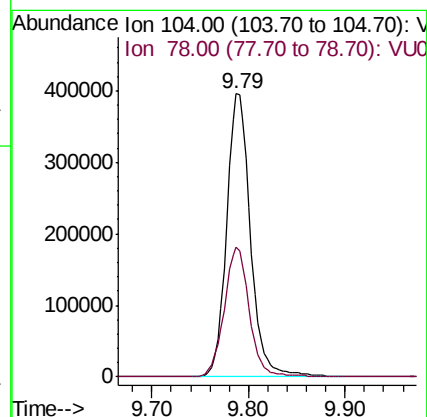
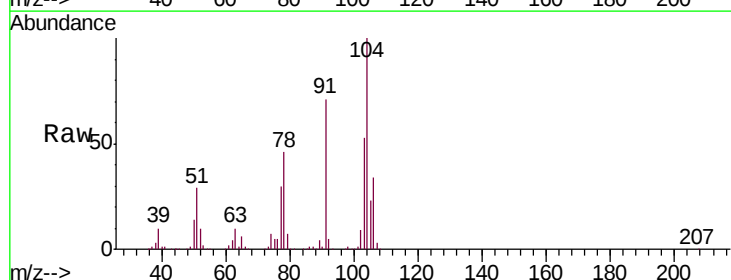
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

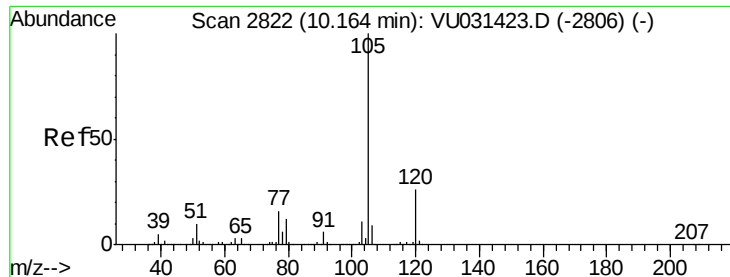
Tgt Ion:106 Resp: 406864
Ion Ratio Lower Upper
106 100
91 213.0 152.4 283.0



#55
Styrene
Concen: 53.598 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. -0.00 min
Lab File: VU031448.D
Acq: 23 Apr 2019 19:05

Tgt Ion:104 Resp: 676378
Ion Ratio Lower Upper
104 100
78 45.8 31.1 57.7





#56

Isopropylbenzene

Concen: 53.409 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

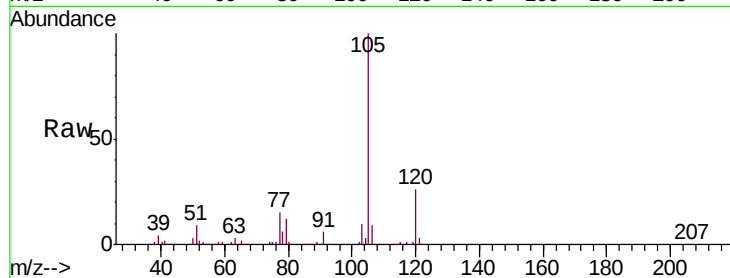
Tgt Ion: 105 Resp: 1041124

Ion Ratio Lower Upper

105 100

120 26.3 20.7 31.1

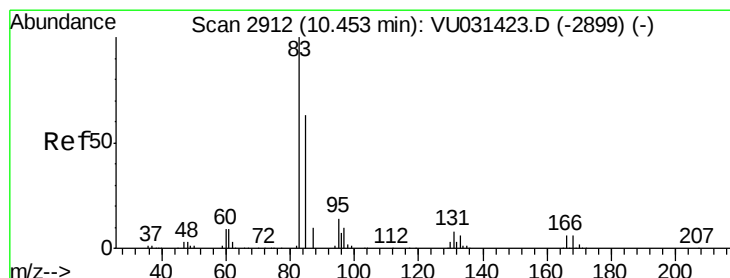
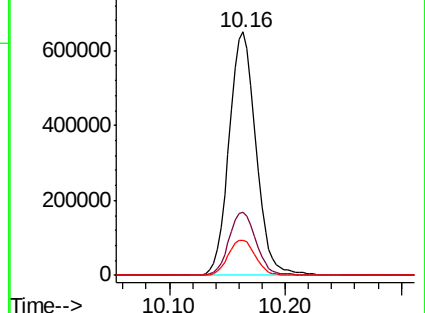
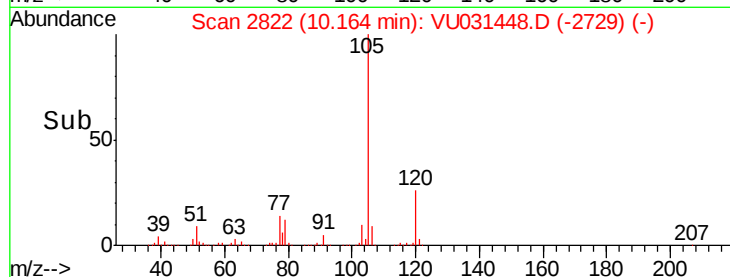
77 15.0 12.2 18.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 49.977 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

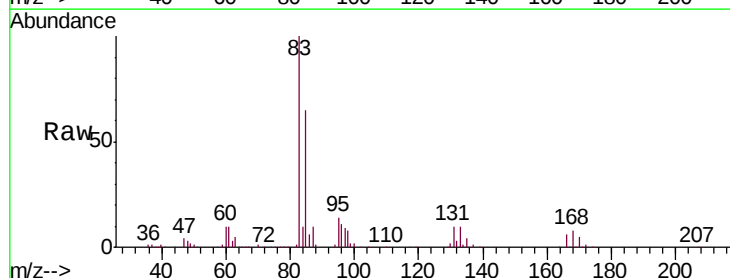
Tgt Ion: 83 Resp: 392691

Ion Ratio Lower Upper

83 100

85 65.0 44.5 82.7

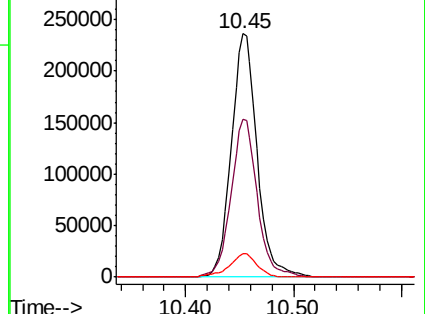
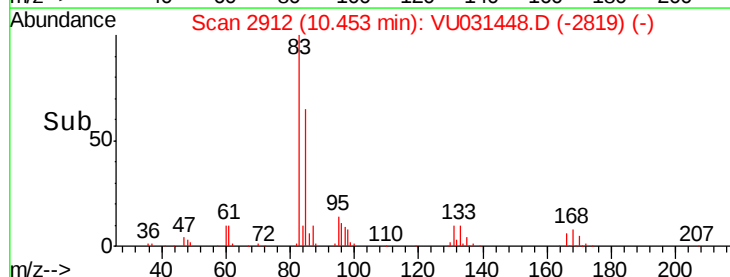
131 9.6 7.0 10.6

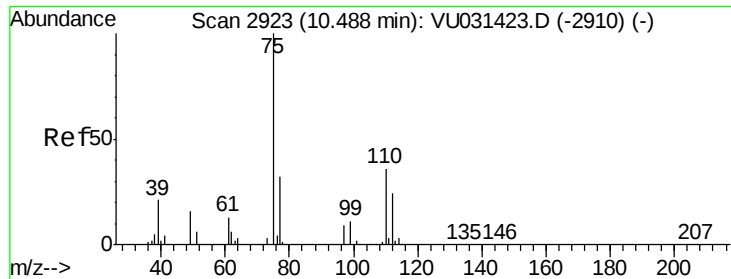


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.261 ug/L

RT: 10.49 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Instrument :

MSVOA_U

ClientSampleId :

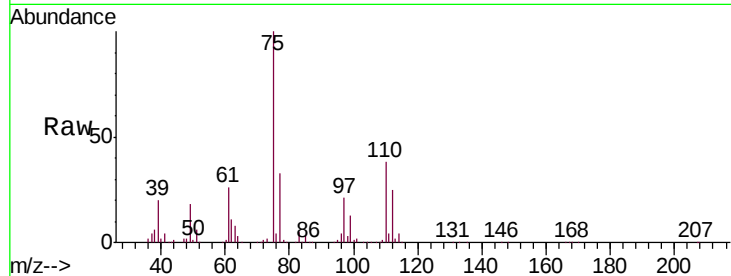
VSTD05048

Tgt Ion: 75 Resp: 307371

Ion Ratio Lower Upper

75 100

77 33.1 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VU031423.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU031423.D (-2910) (-)

10.49

200000

150000

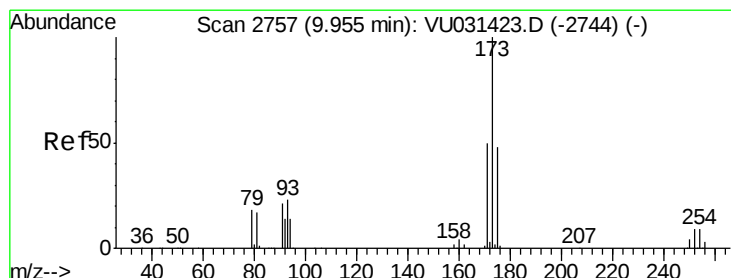
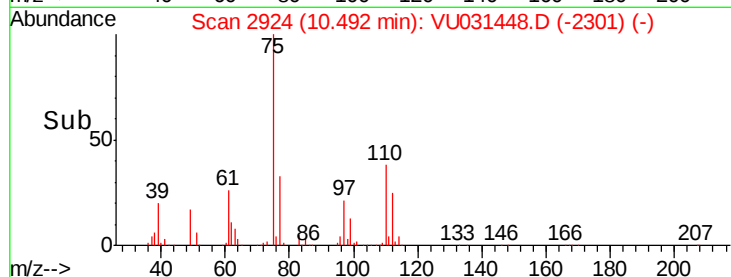
100000

50000

0

Time-->

10.40 10.50 10.60



#61

Bromoform

Concen: 49.910 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

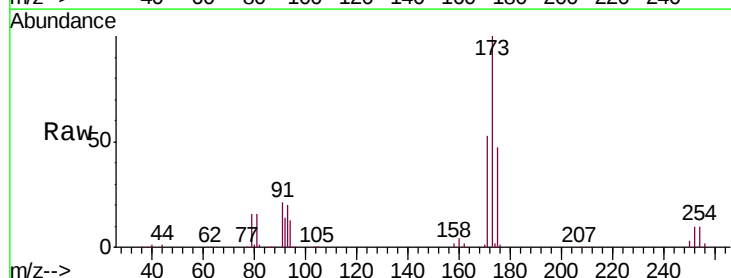
Tgt Ion: 173 Resp: 190774

Ion Ratio Lower Upper

173 100

175 47.9 38.6 57.8

254 9.8 7.7 11.5



Abundance Ion 173.00 (172.70 to 173.70): VU031423.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU031423.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU031423.D (-2744) (-)

9.95

150000

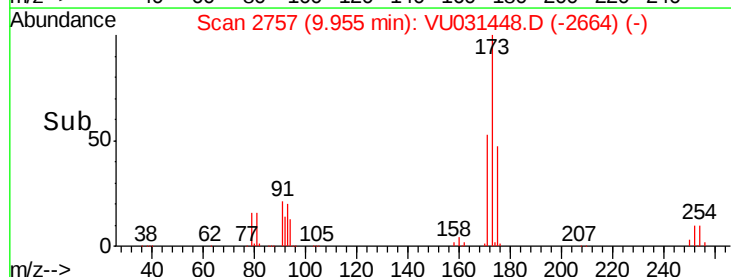
100000

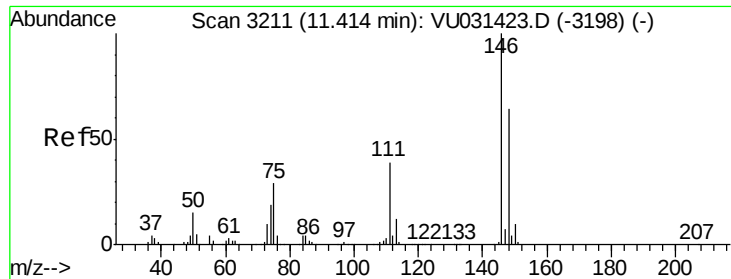
50000

0

Time-->

9.90 9.95 10.00 10.05





#62

1,3-Dichlorobenzene

Concen: 51.503 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

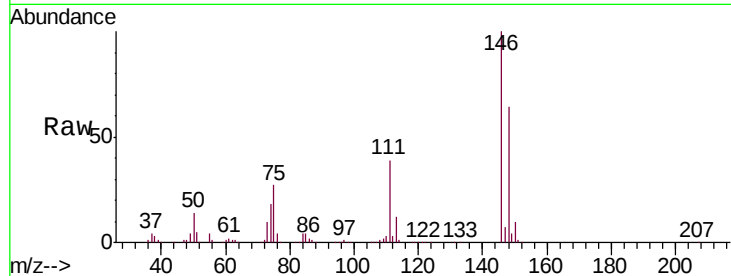
Tgt Ion:146 Resp: 468877

Ion Ratio Lower Upper

146 100

111 39.0 27.4 50.8

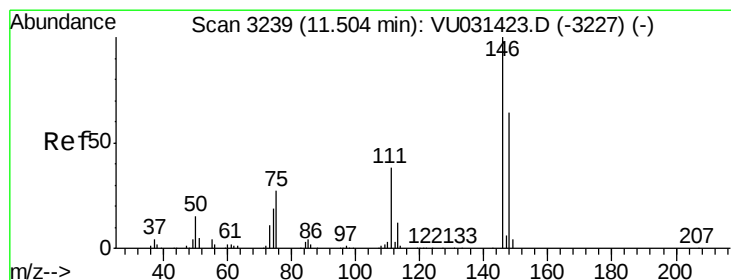
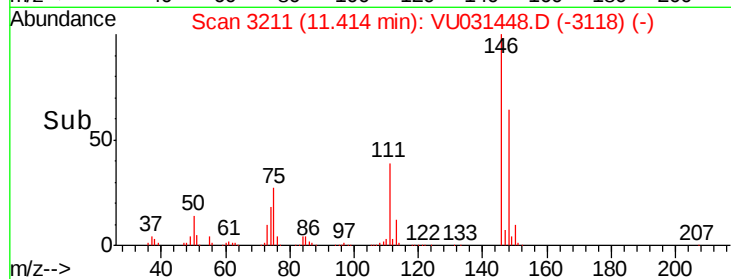
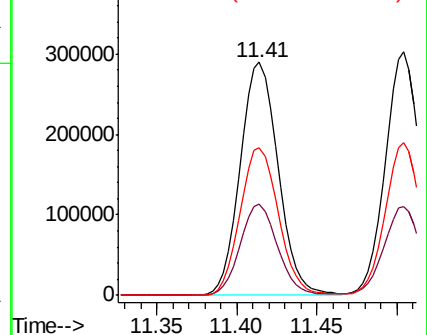
148 63.5 45.4 84.4



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: 52.475 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

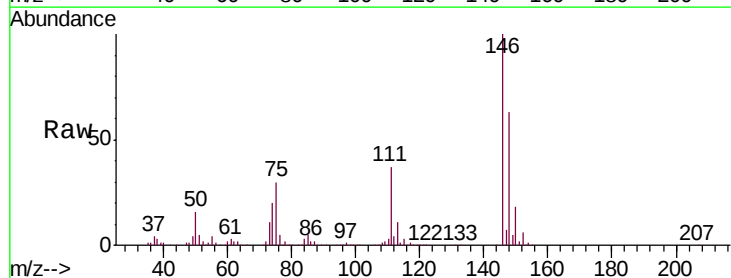
Tgt Ion:146 Resp: 476572

Ion Ratio Lower Upper

146 100

111 36.7 26.6 49.4

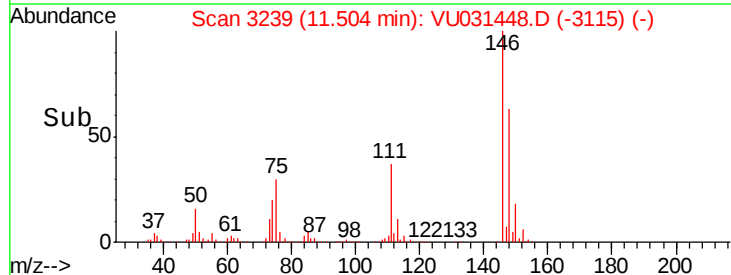
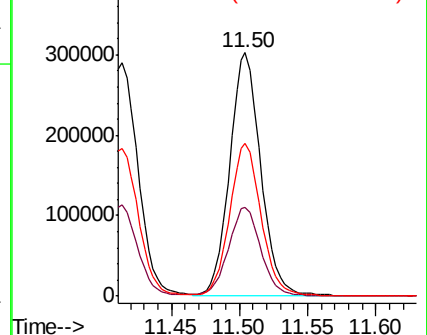
148 62.9 44.4 82.5

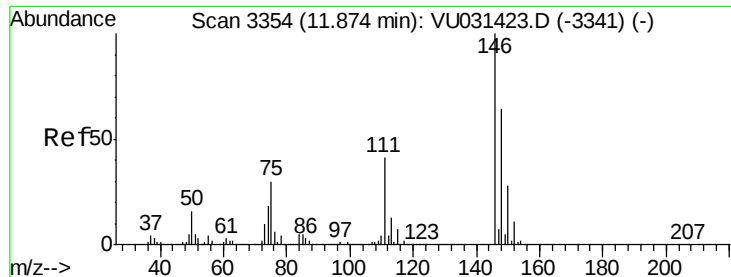


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

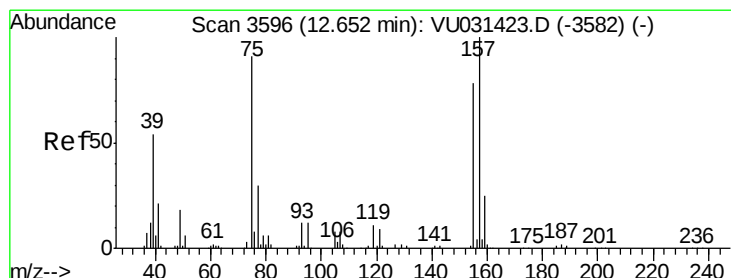
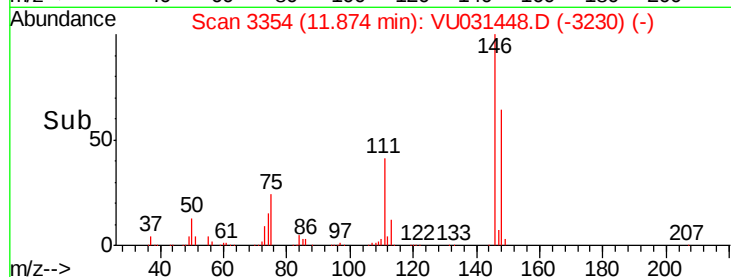
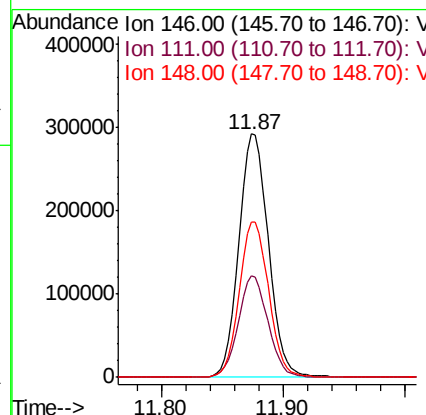
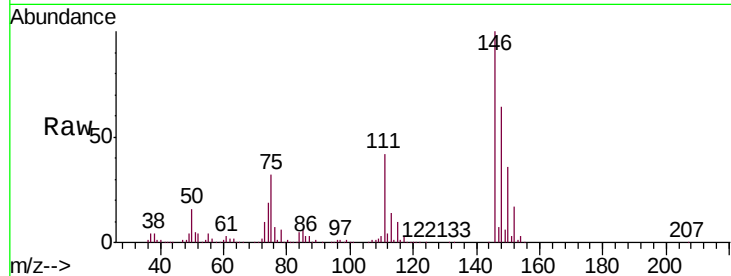




#65
 1,2-Dichlorobenzene
 Concen: 52.733 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU031448.D
 Acq: 23 Apr 2019 19:05

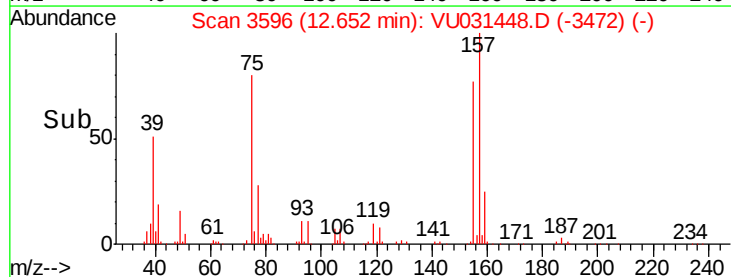
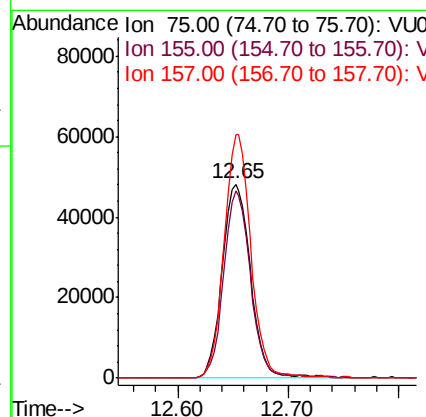
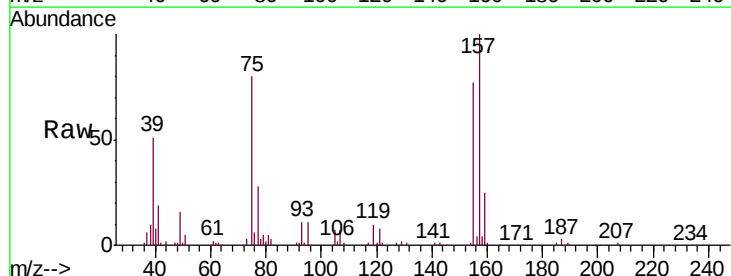
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

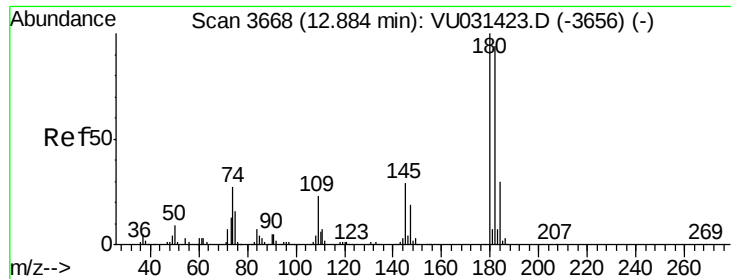
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.8	32.4	48.6
148	63.9	50.7	76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.114 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU031448.D
 Acq: 23 Apr 2019 19:05

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.4	68.8	103.2
157	125.2	91.4	137.2

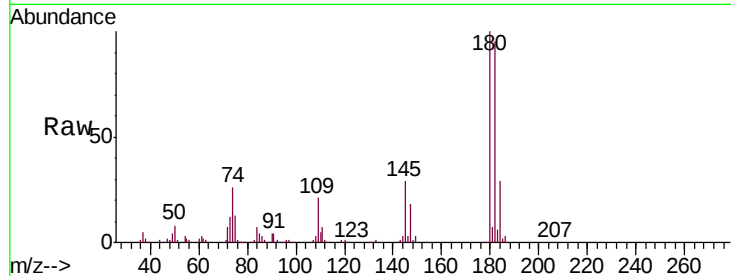




#67
 1,3,5-Trichlorobenzene
 Concen: 52.195 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU031448.D
 Acq: 23 Apr 2019 19:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.5	114.7
184	30.0	23.7	35.5
145	28.2	22.9	34.3



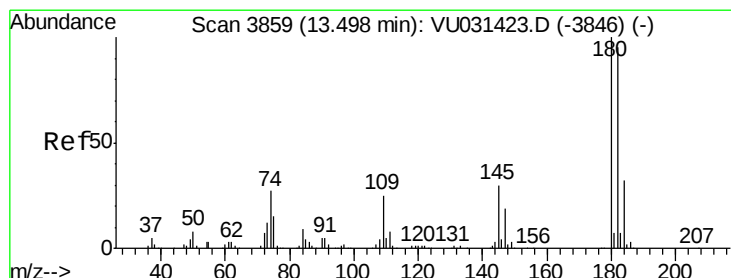
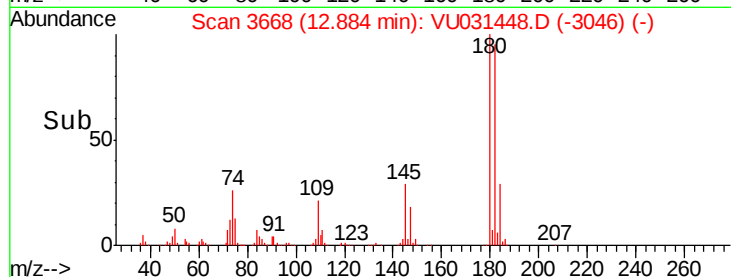
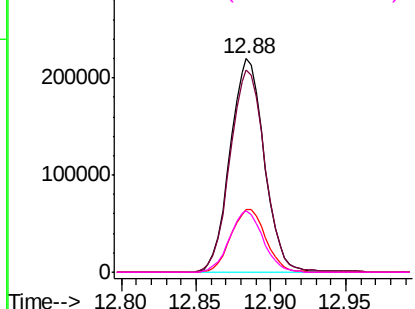
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

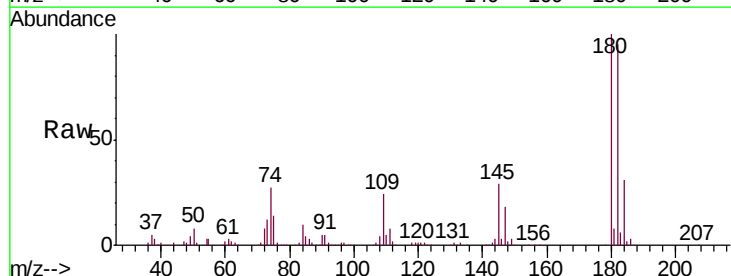
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 59.131 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU031448.D
 Acq: 23 Apr 2019 19:05

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.9	77.5	116.3
145	28.9	23.3	34.9

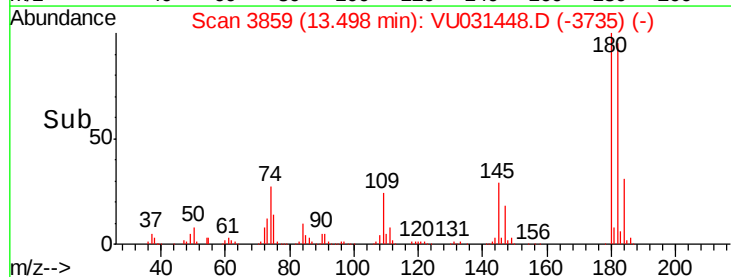
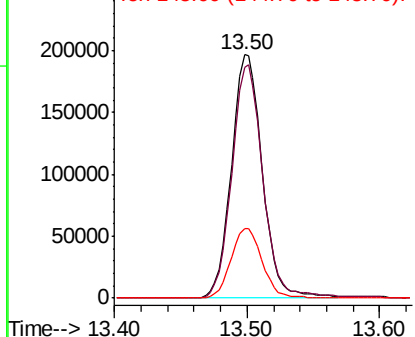


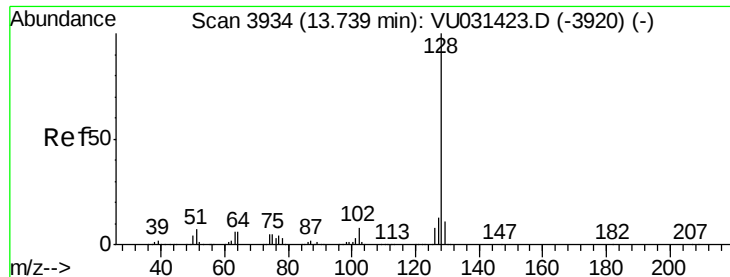
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 61.818 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

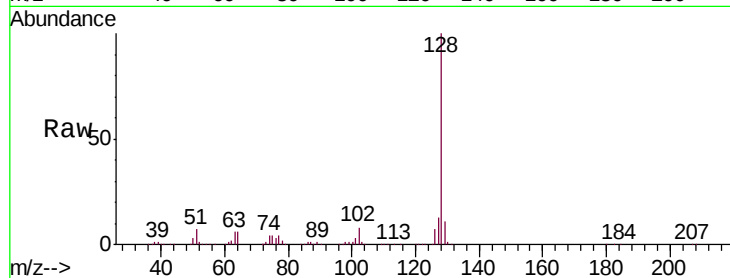
Tgt Ion:128 Resp: 1159168

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

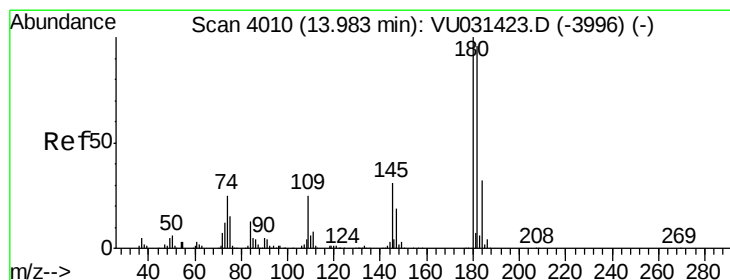
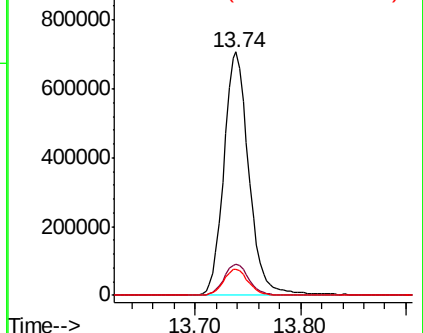
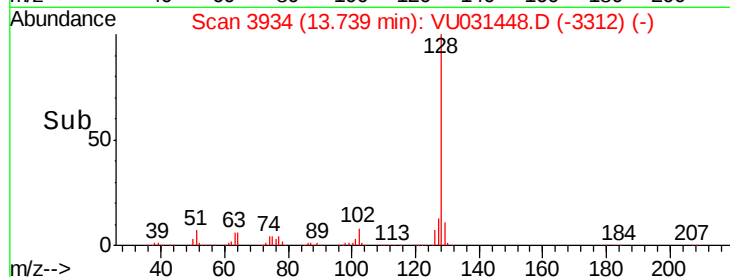
129 10.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 56.075 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU031448.D

Acq: 23 Apr 2019 19:05

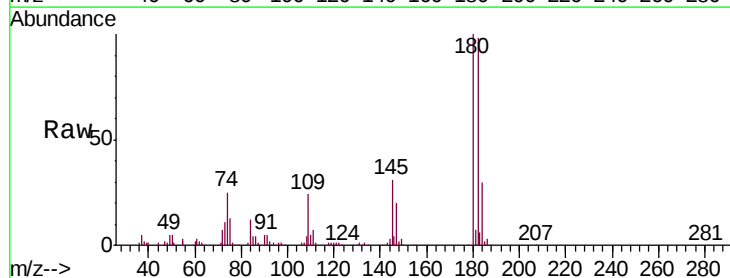
Tgt Ion:180 Resp: 325665

Ion Ratio Lower Upper

180 100

182 97.6 75.8 113.8

145 30.7 25.2 37.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

