

Data File : VU030842.D
Acq On : 07 Apr 2019 07:36
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 52 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

Quant Time: Apr 08 07:12:53 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Apr 08 07:03:53 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	501387	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	484900	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	232401	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	231412	51.70	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	103.40%
7) Chloroethane-d5	1.68	69	187406	55.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	110.34%
11) 1,1-Dichloroethene-d2	2.27	63	432153	53.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	106.76%
21) 2-Butanone-d5	4.17	46	415265	117.07	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	117.07%
24) Chloroform-d	4.64	84	379422	55.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.98%
26) 1,2-Dichloroethane-d4	5.31	65	254874	54.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.26%
32) Benzene-d6	5.33	84	760918	53.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.50%
36) 1,2-Dichloropropane-d6	6.32	67	259933	53.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	107.16%
41) Toluene-d8	7.56	98	680056	54.20	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.40%
43) trans-1,3-Dichloropropene-	7.85	79	112313	50.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.54%
47) 2-Hexanone-d5	8.31	63	259108	116.86	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	116.86%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	361582	55.26	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	110.52%
64) 1,2-Dichlorobenzene-d4	11.85	152	241506	52.84	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.68%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	205330	46.622	ug/L	99
3) Chloromethane	1.32	50	281896	49.484	ug/L	99
5) Vinyl chloride	1.40	62	274499	49.778	ug/L	95
6) Bromomethane	1.62	94	130056	45.522	ug/L	98
8) Chloroethane	1.69	64	160260	50.954	ug/L	98
9) Trichlorofluoromethane	1.88	101	322588	50.205	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	168605	46.963	ug/L	96
12) 1,1-Dichloroethene	2.28	96	178908	51.620	ug/L	85
13) Acetone	2.32	43	277255	76.382	ug/L	98
14) Carbon disulfide	2.47	76	518553	48.162	ug/L	98
15) Methyl Acetate	2.61	43	294378	52.305	ug/L	99
16) Methylene chloride	2.70	84	207549	49.295	ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	179305	48.724	ug/L	98
18) Methyl tert-butyl Ether	2.99	73	627610	50.914	ug/L	99
19) 1,1-Dichloroethane	3.44	63	395106	52.026	ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	256867	63.216	ug/L	98
22) 2-Butanone	4.25	43	427191	100.376	ug/L	96

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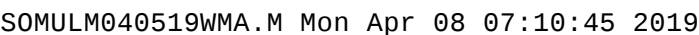
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

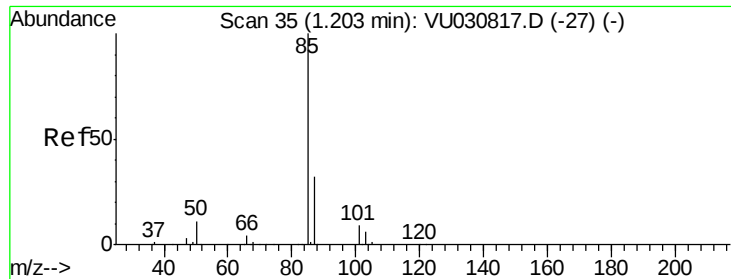
Quant Time: Apr 08 07:12:53 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Apr 08 07:03:53 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	98529	51.291	ug/L	97
25) Chloroform	4.67	83	378652	49.608	ug/L	99
27) 1,2-Dichloroethane	5.40	62	303297	52.063	ug/L	97
29) Cyclohexane	4.99	56	334910	48.459	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	314868	53.282	ug/L	99
31) Carbon tetrachloride	5.13	117	261055	51.264	ug/L	100
33) Benzene	5.38	78	814291	51.316	ug/L	100
34) Trichloroethene	6.18	95	196502	50.490	ug/L	99
35) Methylcyclohexane	6.41	83	278070	46.297	ug/L	99
37) 1,2-Dichloropropane	6.43	63	228852	50.933	ug/L	99
38) Bromodichloromethane	6.75	83	279873	51.633	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	314924	49.242	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	779703	107.911	ug/L	99
42) Toluene	7.63	91	842501	52.014	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	276807	49.114	ug/L	97
45) 1,1,2-Trichloroethane	8.06	97	193321	50.731	ug/L	99
46) Tetrachloroethene	8.22	164	133790	47.283	ug/L	97
48) 2-Hexanone	8.36	43	612236	108.606	ug/L	99
49) Dibromochloromethane	8.47	129	205937	50.930	ug/L	97
50) 1,2-Dibromoethane	8.58	107	210568	51.065	ug/L	97
51) Chlorobenzene	9.12	112	502041	50.536	ug/L	99
52) Ethylbenzene	9.25	91	917976	51.993	ug/L	99
53) m,p-Xylene	9.37	106	328827	53.401	ug/L	99
54) o-xylene	9.77	106	320587	52.341	ug/L	97
55) Styrene	9.79	104	559804	53.284	ug/L	98
56) Isopropylbenzene	10.16	105	843416	52.301	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	360878	52.357	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	285115	52.982	ug/L	100
61) Bromoform	9.95	173	152570	49.695	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	355313	48.375	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	364683	48.812	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	369393	50.137	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	81370	51.952	ug/L	97
67) 1,3,5-Trichlorobenzene	12.88	180	264877	49.345	ug/L	96
68) 1,2,4-trichlorobenzene	13.50	180	227164	49.774	ug/L	99
69) Naphthalene	13.74	128	812619	54.924	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	239537	50.234	ug/L	98

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

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#2

Dichlorodifluoromethane

Concen: 46.622 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

Instrument :

MSVOA_U

ClientSampleId :

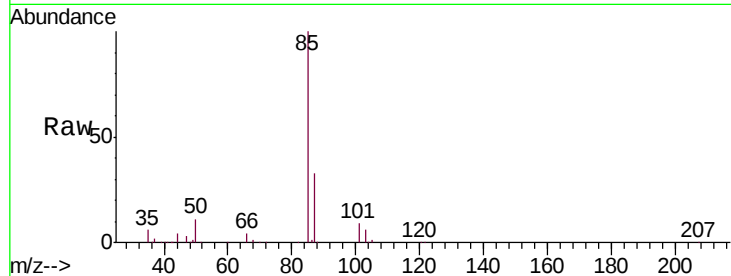
VSTD05055

Tgt Ion: 85 Resp: 205330

Ion Ratio Lower Upper

85 100

87 32.5 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU030817.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU030817.D (-27) (-)

1.20

200000

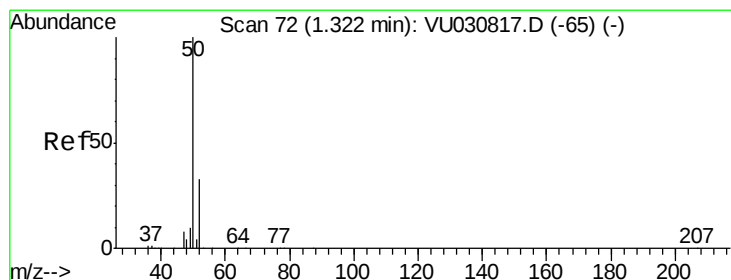
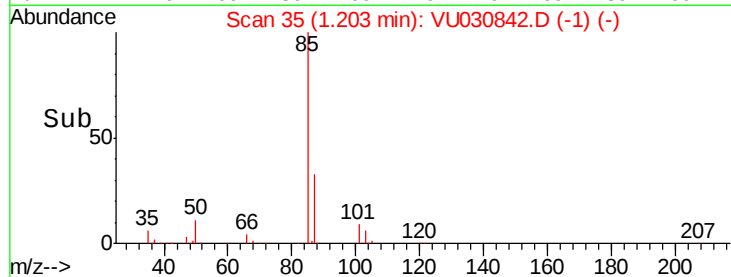
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 49.484 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU030842.D

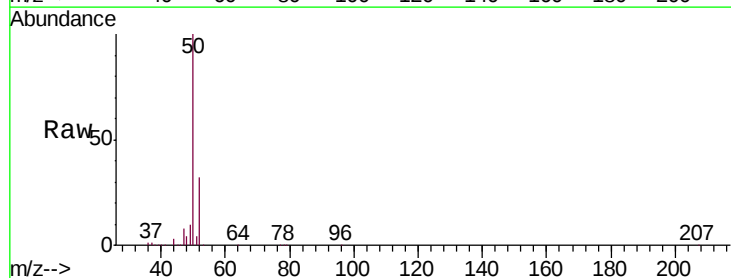
Acq: 07 Apr 2019 07:36

Tgt Ion: 50 Resp: 281896

Ion Ratio Lower Upper

50 100

52 32.1 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU030817.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU030817.D (-65) (-)

1.32

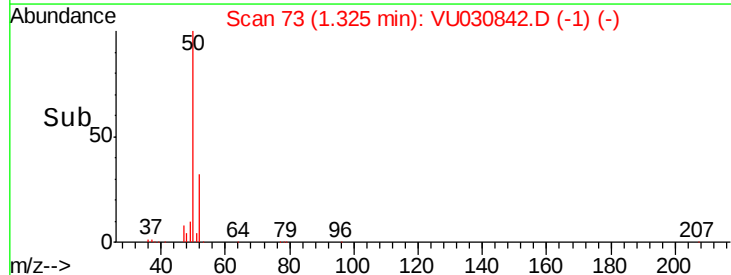
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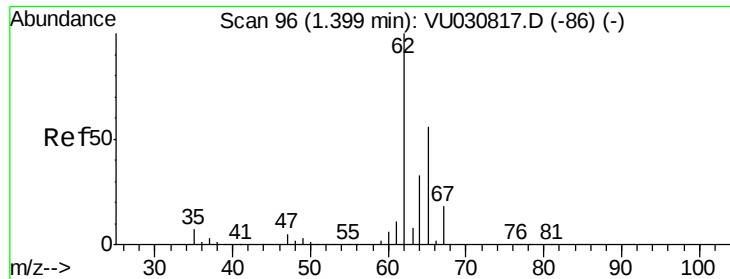
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 49.778 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

Instrument :

MSVOA_U

ClientSampleId :

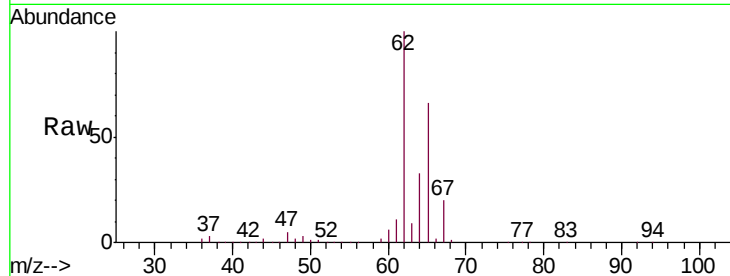
VSTD05055

Tgt Ion: 62 Resp: 274499

Ion Ratio Lower Upper

62 100

64 33.3 21.5 39.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.40

250000

200000

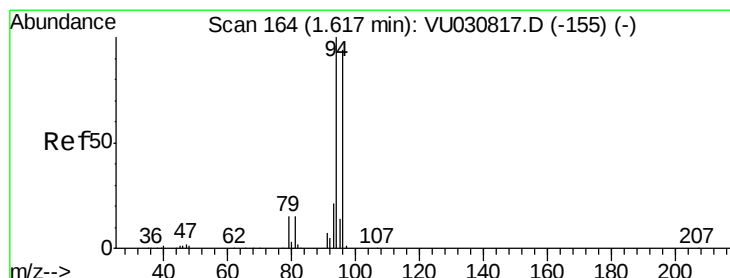
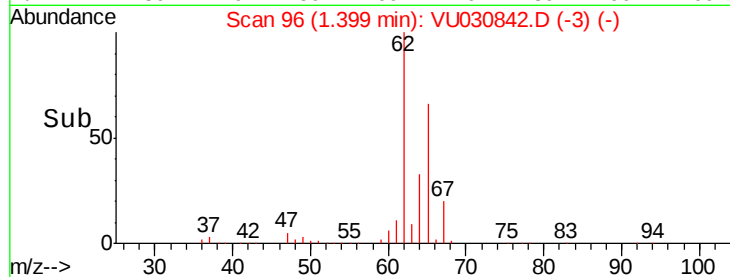
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 45.522 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU030842.D

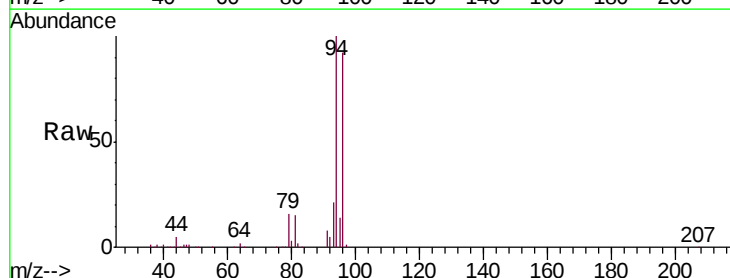
Acq: 07 Apr 2019 07:36

Tgt Ion: 94 Resp: 130056

Ion Ratio Lower Upper

94 100

96 92.0 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.62

100000

80000

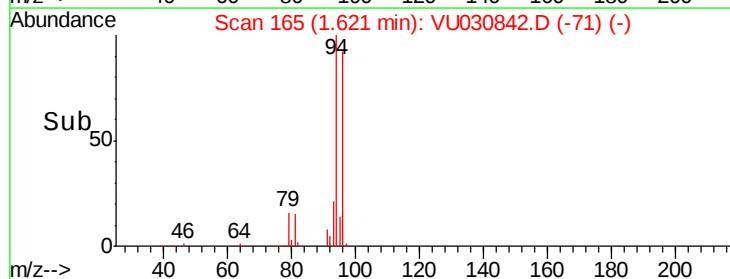
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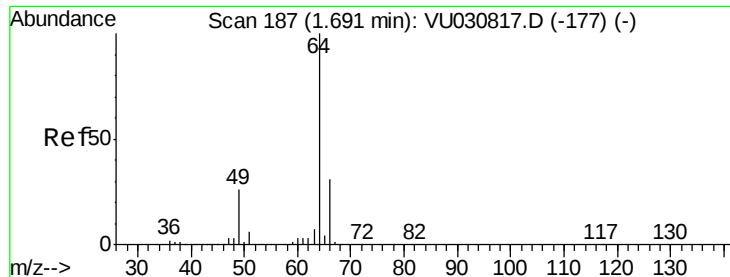
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20000

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Time-->

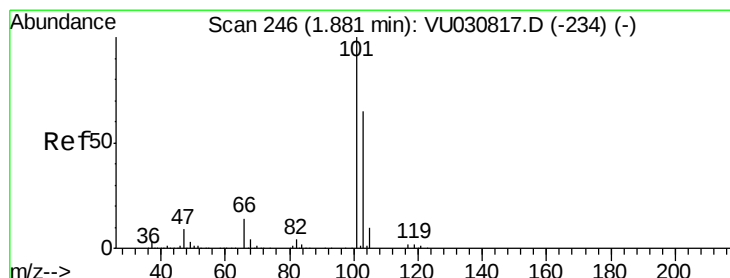
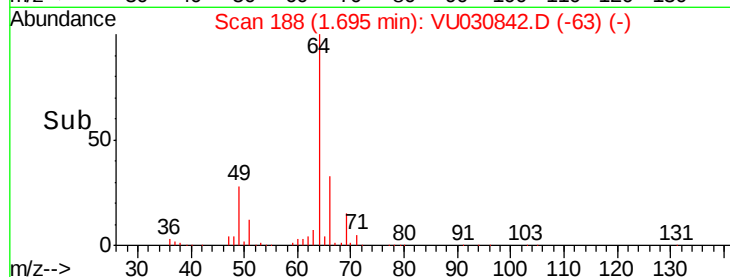
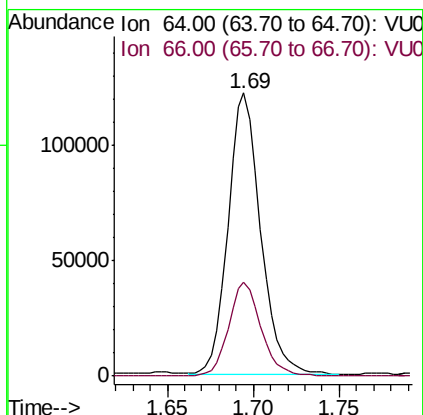
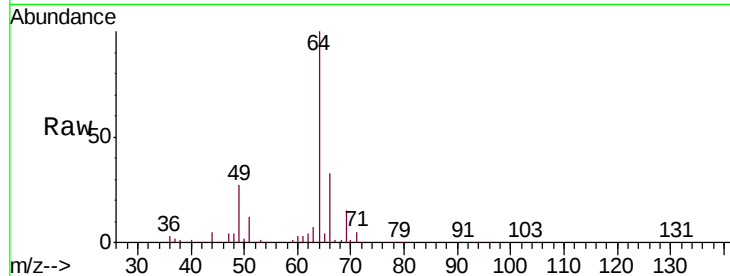




#8
Chloroethane
Concen: 50.954 ug/L
RT: 1.69 min Scan# 188
Delta R.T. 0.00 min
Lab File: VU030842.D
Acq: 07 Apr 2019 07:36

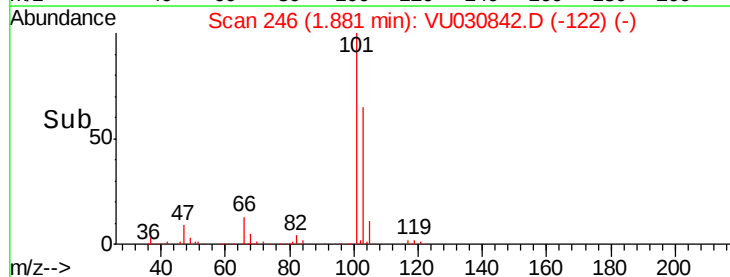
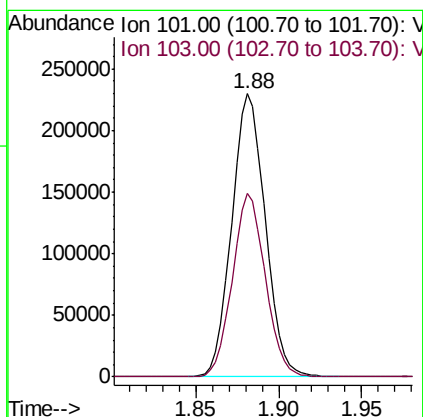
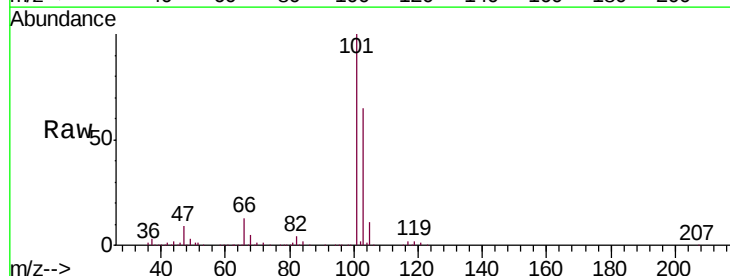
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

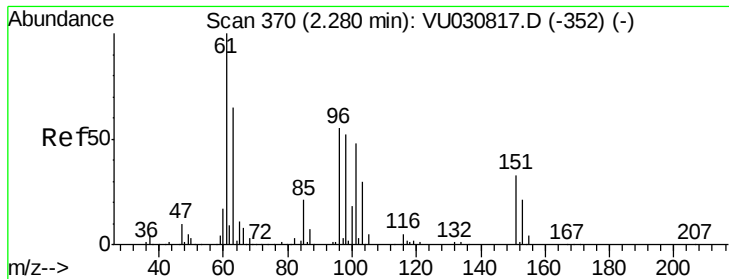
Tgt Ion: 64 Resp: 160260
Ion Ratio Lower Upper
64 100
66 33.1 22.4 41.6



#9
Trichlorofluoromethane
Concen: 50.205 ug/L
RT: 1.88 min Scan# 246
Delta R.T. -0.00 min
Lab File: VU030842.D
Acq: 07 Apr 2019 07:36

Tgt Ion: 101 Resp: 322588
Ion Ratio Lower Upper
101 100
103 63.9 51.8 77.8





#10

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

Concen: 46.963 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

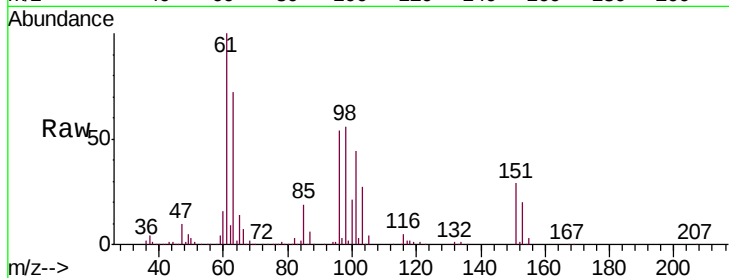
Tgt Ion: 101 Resp: 168605

Ion Ratio Lower Upper

101 100

85 43.7 36.8 55.2

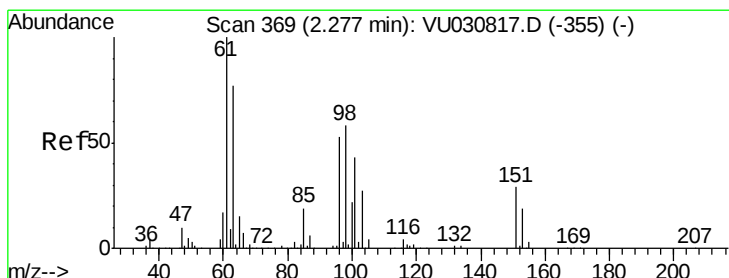
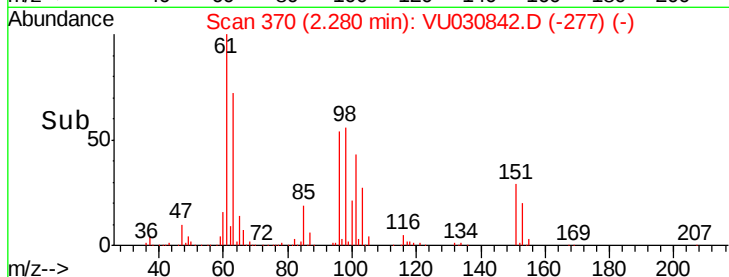
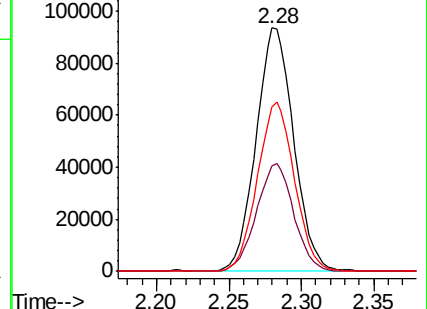
151 68.7 57.4 86.0



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: 51.620 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

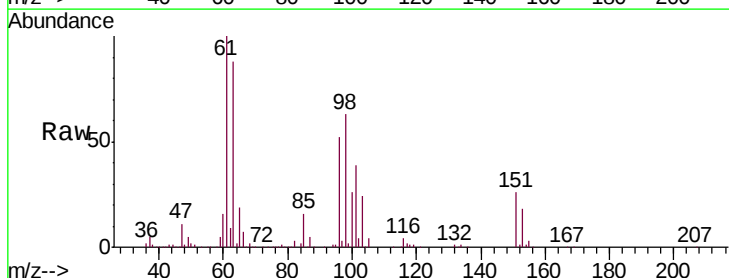
Tgt Ion: 96 Resp: 178908

Ion Ratio Lower Upper

96 100

61 191.9 132.0 245.2

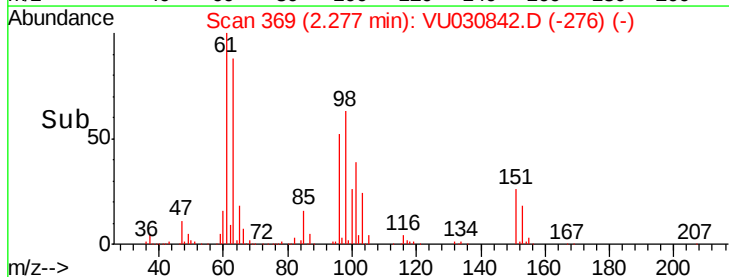
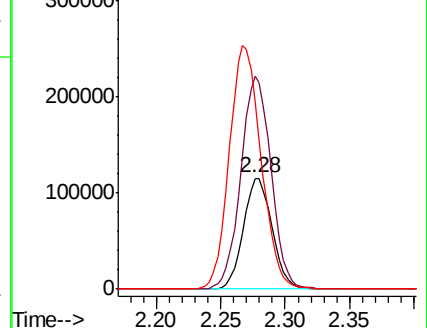
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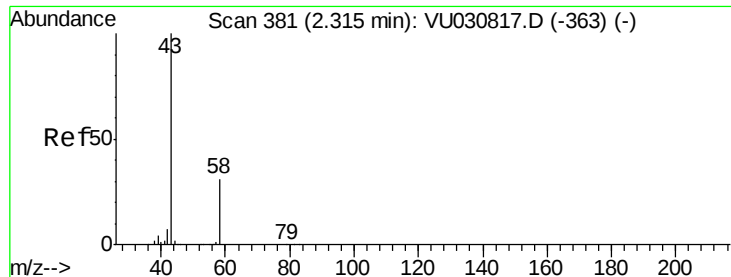


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 76.382 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

Instrument :

MSVOA_U

ClientSampleId :

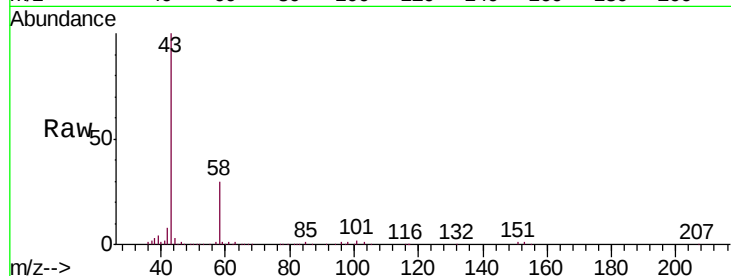
VSTD05055

Tgt Ion: 43 Resp: 277255

Ion Ratio Lower Upper

43 100

58 31.1 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU030817.D (-363) (-)

Ion 58.00 (57.70 to 58.70): VU030817.D (-363) (-)

200000

150000

100000

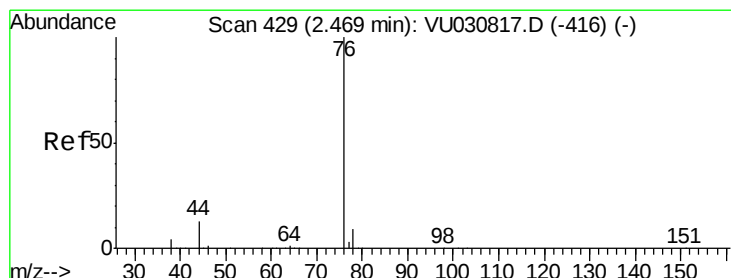
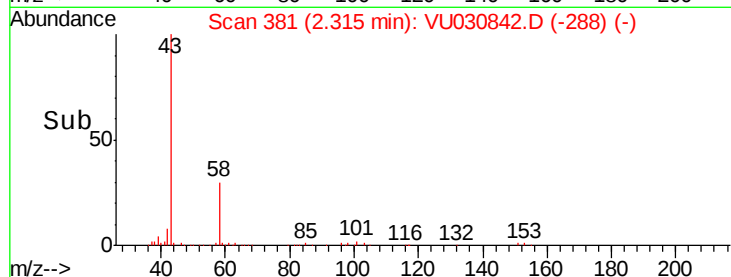
50000

0

2.32

2.20 2.30 2.40

Time-->



#14

Carbon disulfide

Concen: 48.162 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU030842.D

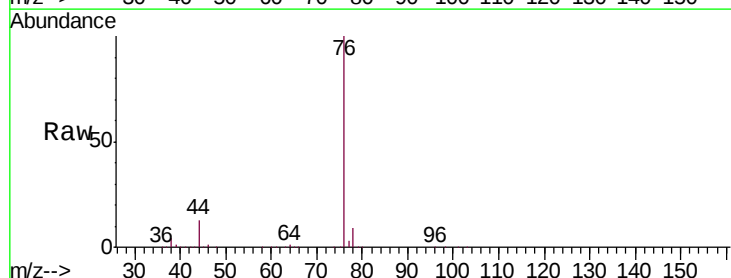
Acq: 07 Apr 2019 07:36

Tgt Ion: 76 Resp: 518553

Ion Ratio Lower Upper

76 100

78 9.4 7.0 10.4



Abundance Ion 76.00 (75.70 to 76.70): VU030817.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU030817.D (-416) (-)

300000

200000

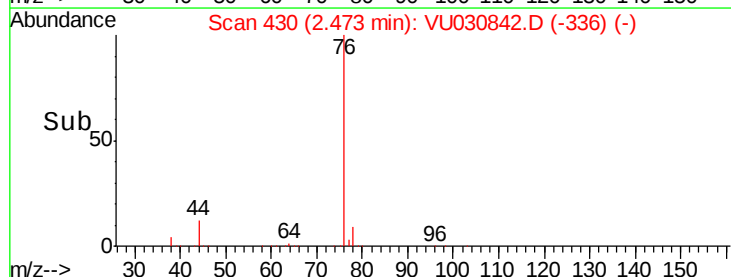
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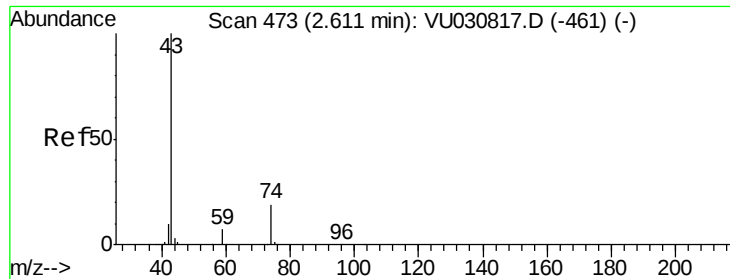
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2.47

2.40 2.45 2.50 2.55

Time-->

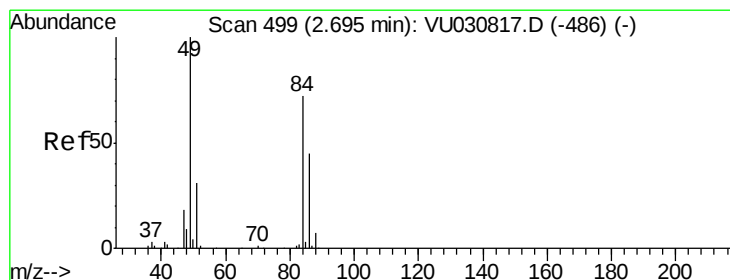
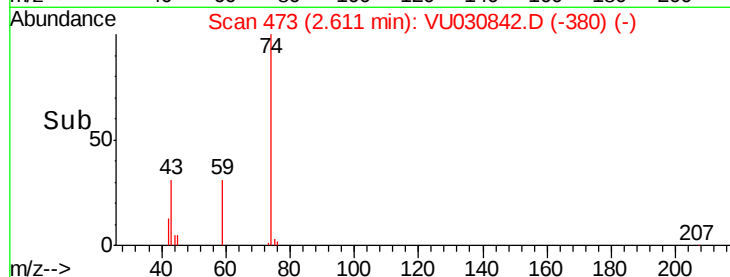
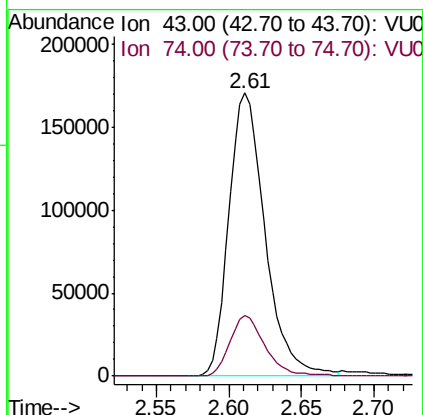
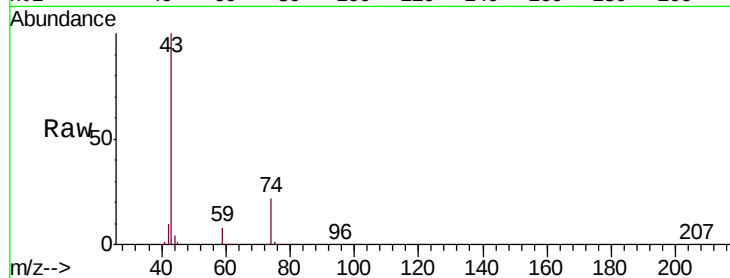




#15
Methyl Acetate
Concen: 52.305 ug/L
RT: 2.61 min Scan# 473
Delta R.T. -0.00 min
Lab File: VU030842.D
Acq: 07 Apr 2019 07:36

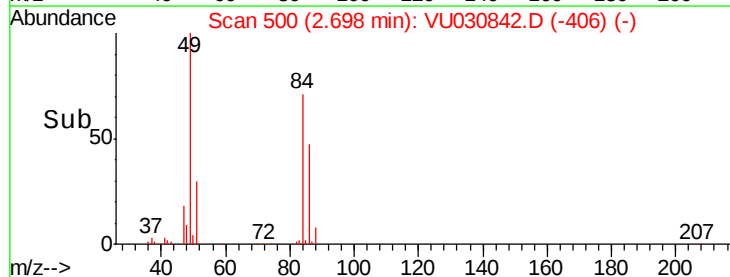
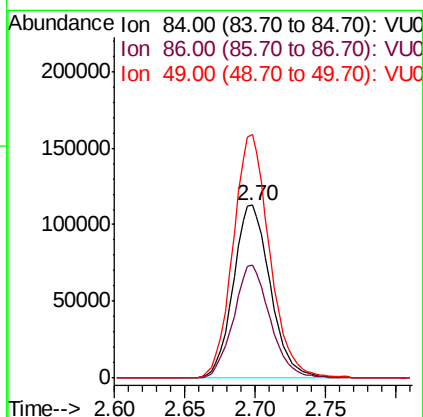
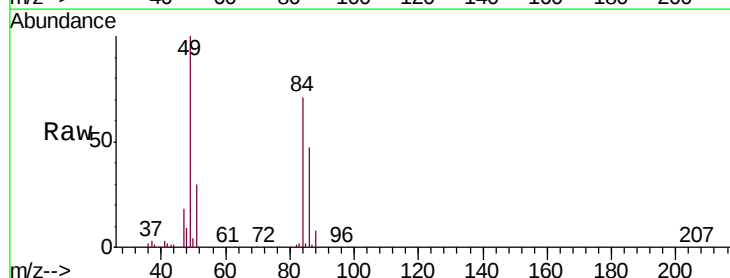
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

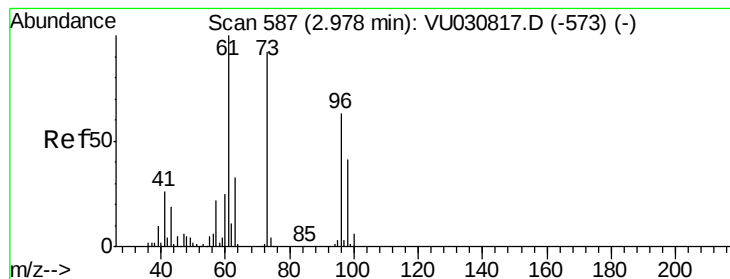
Tgt Ion: 43 Resp: 294378
Ion Ratio Lower Upper
43 100
74 21.1 17.1 25.7



#16
Methylene chloride
Concen: 49.295 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU030842.D
Acq: 07 Apr 2019 07:36

Tgt Ion: 84 Resp: 207549
Ion Ratio Lower Upper
84 100
86 65.7 45.1 83.7
49 140.9 96.5 179.1





#17

trans-1,2-Dichloroethene

Concen: 48.724 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

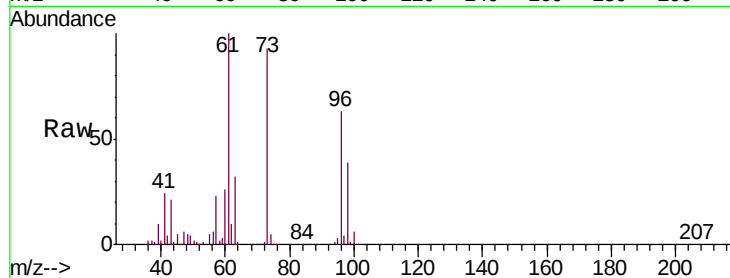
Tgt Ion: 96 Resp: 179305

Ion Ratio Lower Upper

96 100

61 159.7 109.5 203.3

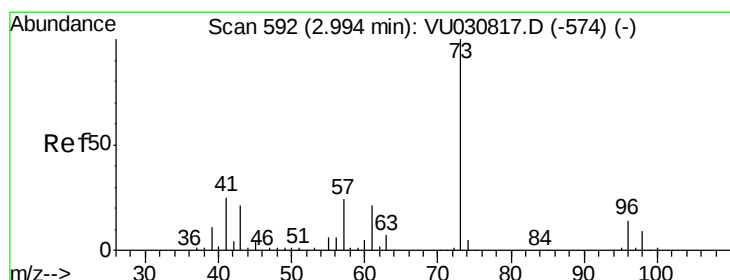
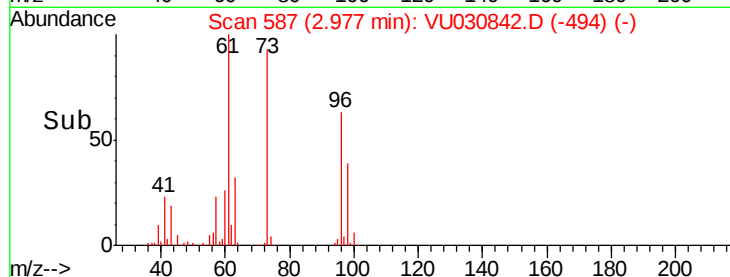
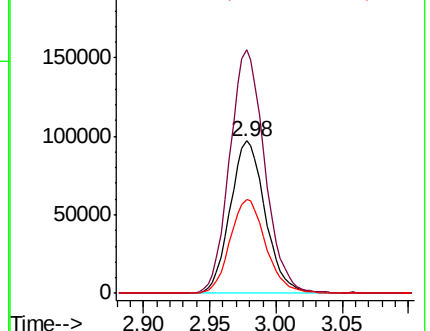
98 61.7 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU030817.D (-573) (-)

Ion 61.00 (60.70 to 61.70): VU030817.D (-573) (-)

Ion 98.00 (97.70 to 98.70): VU030817.D (-573) (-)



#18

Methyl tert-butyl Ether

Concen: 50.914 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

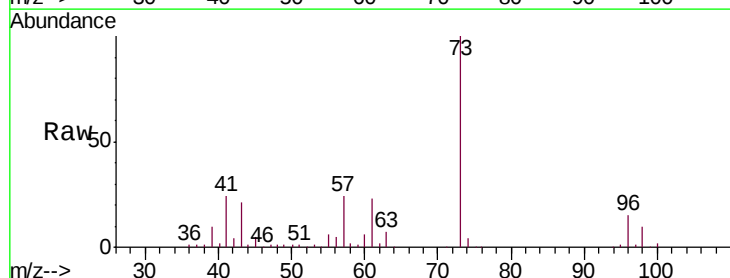
Tgt Ion: 73 Resp: 627610

Ion Ratio Lower Upper

73 100

43 21.0 16.4 24.6

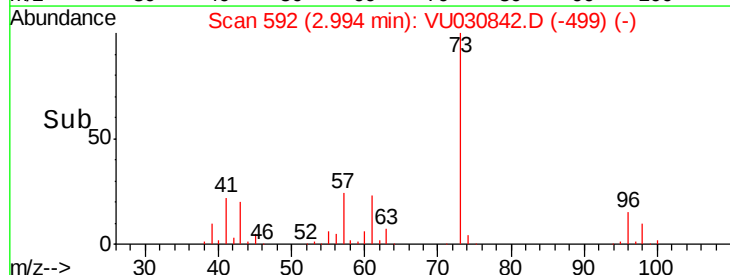
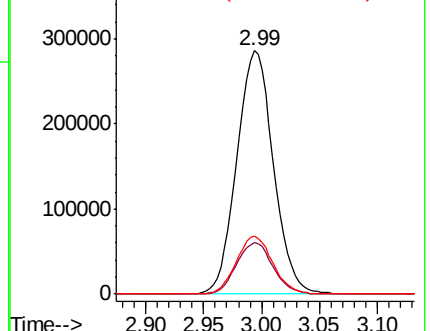
57 23.7 19.0 28.4

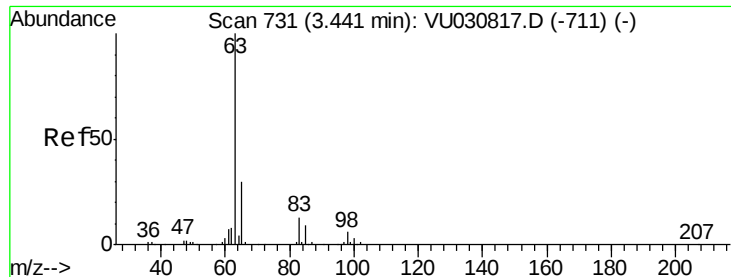


Abundance Ion 73.00 (72.70 to 73.70): VU030817.D (-574) (-)

Ion 43.00 (42.70 to 43.70): VU030817.D (-574) (-)

Ion 57.00 (56.70 to 57.70): VU030817.D (-574) (-)

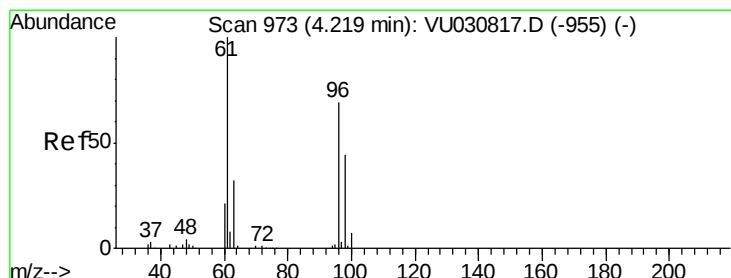
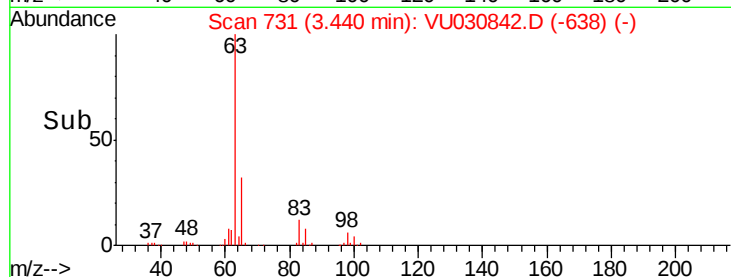
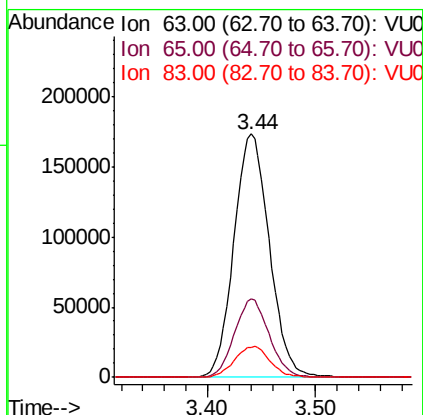
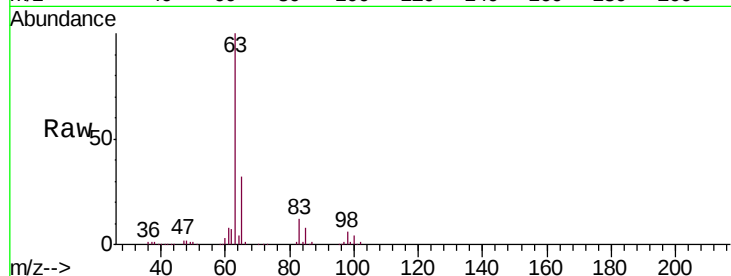




#19
 1,1-Dichloroethane
 Concen: 52.026 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU030842.D
 Acq: 07 Apr 2019 07:36

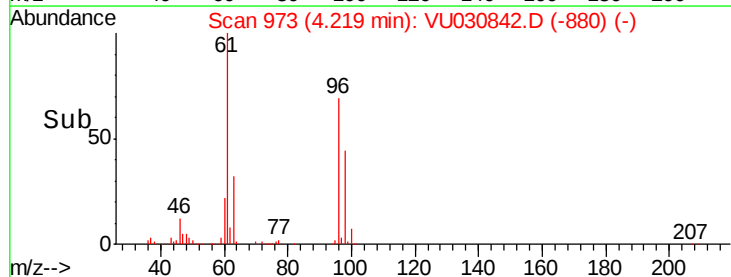
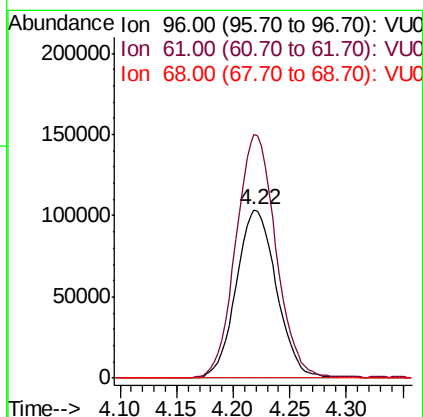
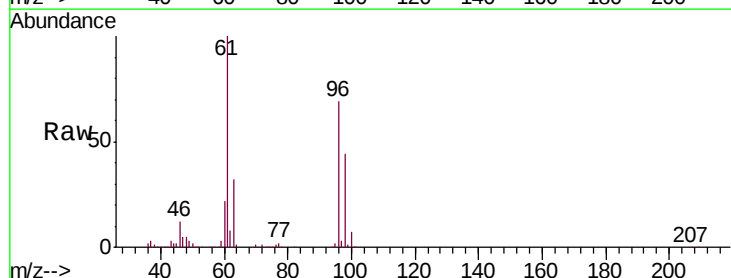
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

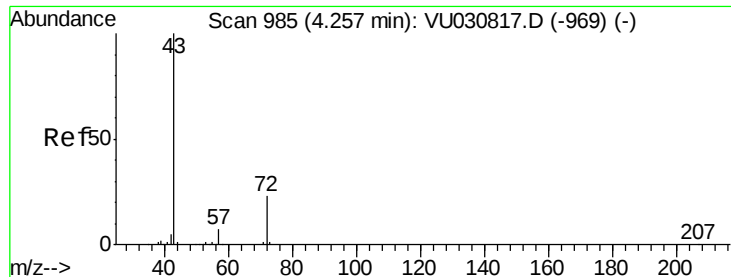
Tgt Ion	Ratio	Lower	Upper
63	100		
65	32.2	21.4	39.8
83	12.5	8.5	15.7



#20
 cis-1,2-Dichloroethene
 Concen: 63.216 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU030842.D
 Acq: 07 Apr 2019 07:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	144.8	102.9	191.1
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 100.376 ug/L

RT: 4.25 min Scan# 984

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

Instrument :

MSVOA_U

ClientSampleId :

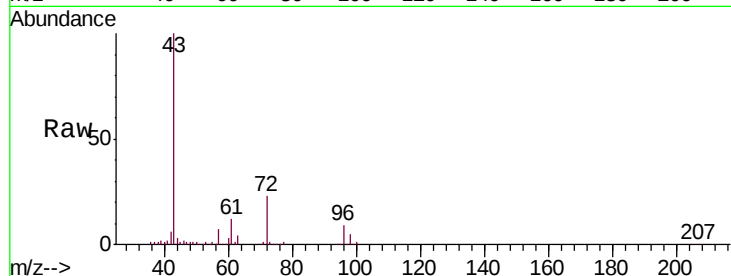
VSTD05055

Tgt Ion: 43 Resp: 427191

Ion Ratio Lower Upper

43 100

72 23.5 10.8 32.4



Abundance Ion 43.00 (42.70 to 43.70): VU030817.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU030817.D (-969) (-)

4.25

150000

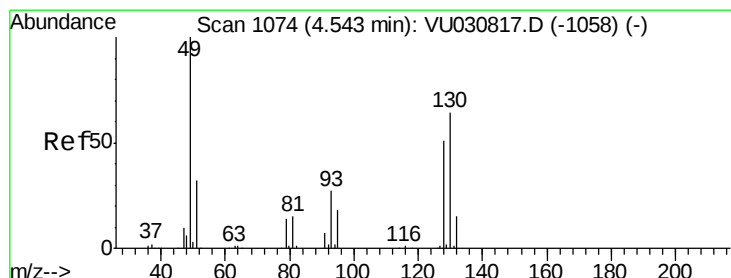
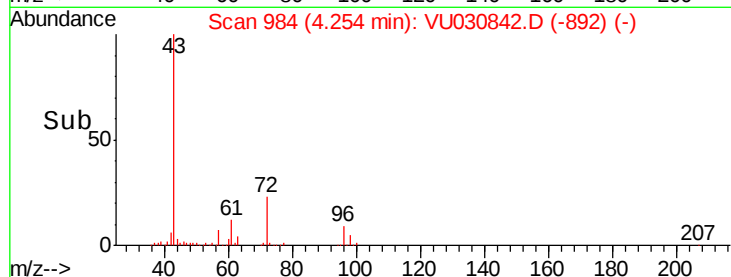
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 51.291 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

Tgt Ion: 128 Resp: 98529

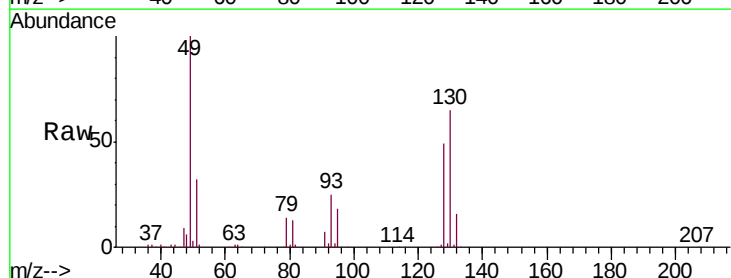
Ion Ratio Lower Upper

128 100

49 203.0 139.9 259.7

130 131.9 86.6 160.8

51 65.8 52.2 78.4



Abundance Ion 128.00 (127.70 to 128.70): VU030817.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU030817.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU030817.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU030817.D (-1058) (-)

120000

100000

80000

60000

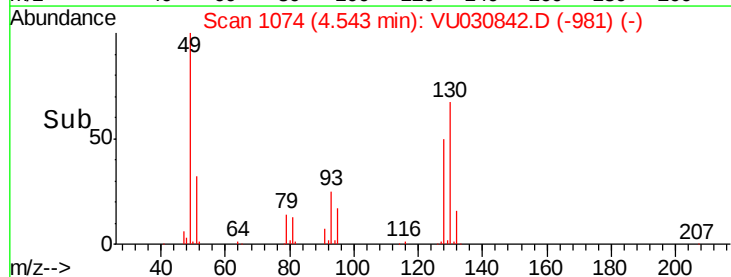
40000

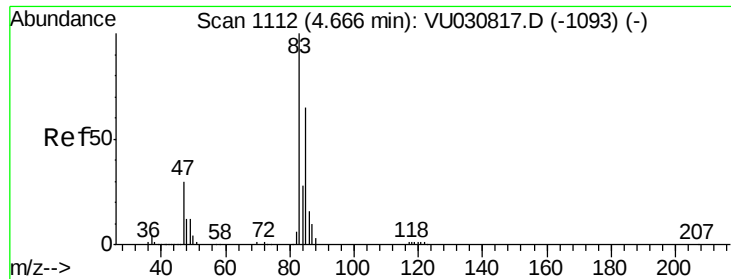
20000

0

4.45 4.50 4.55 4.60 4.65

Time-->

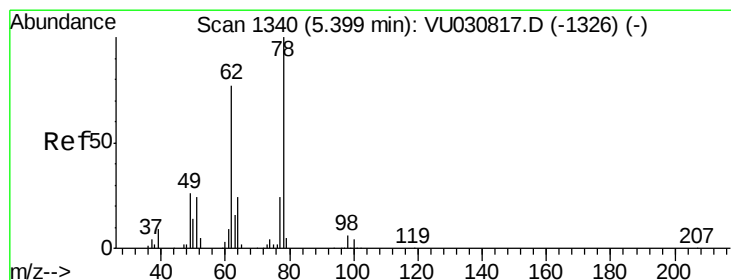
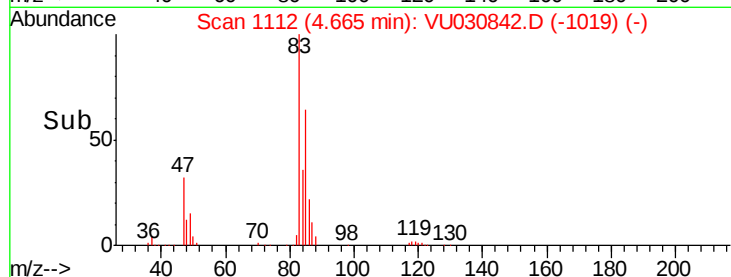
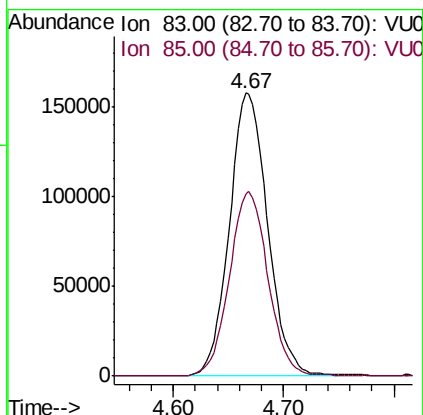
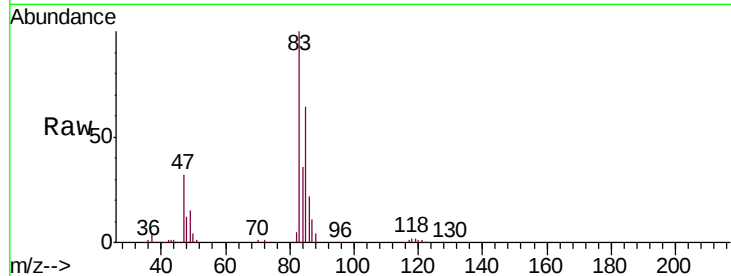




#25
Chloroform
Concen: 49.608 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VU030842.D
Acq: 07 Apr 2019 07:36

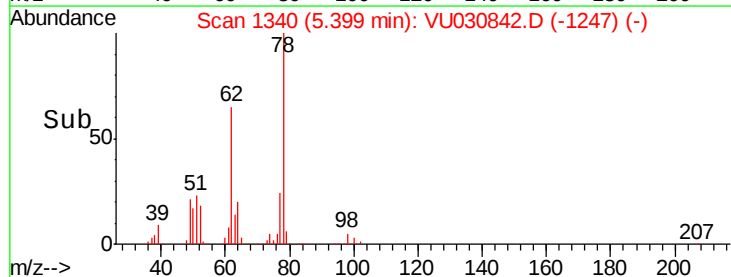
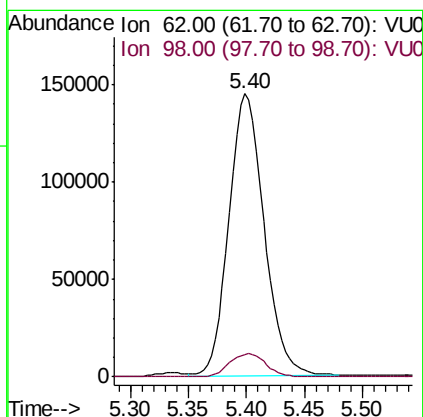
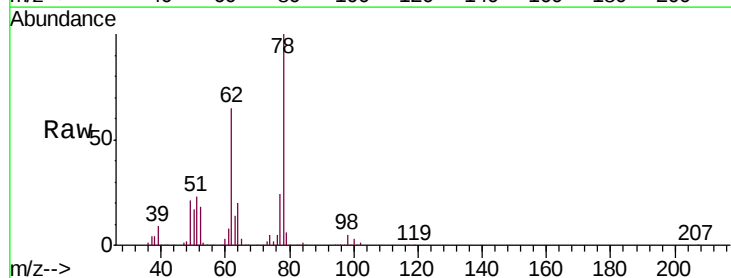
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

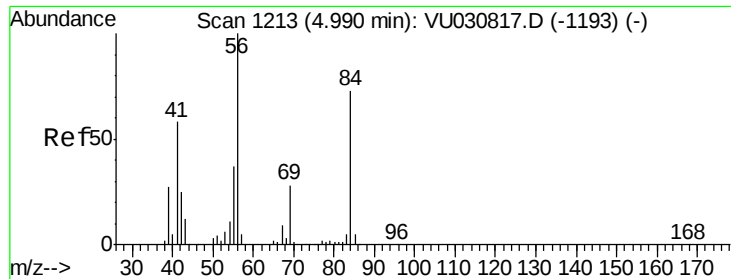
Tgt Ion: 83 Resp: 378652
Ion Ratio Lower Upper
83 100
85 64.5 45.8 85.0



#27
1,2-Dichloroethane
Concen: 52.063 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU030842.D
Acq: 07 Apr 2019 07:36

Tgt Ion: 62 Resp: 303297
Ion Ratio Lower Upper
62 100
98 8.0 7.2 10.8

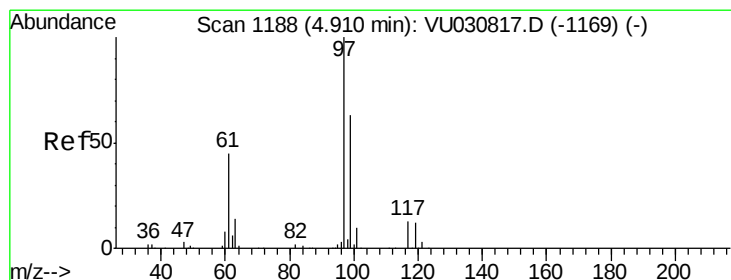
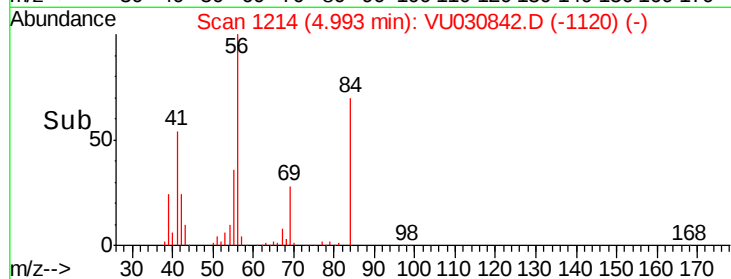
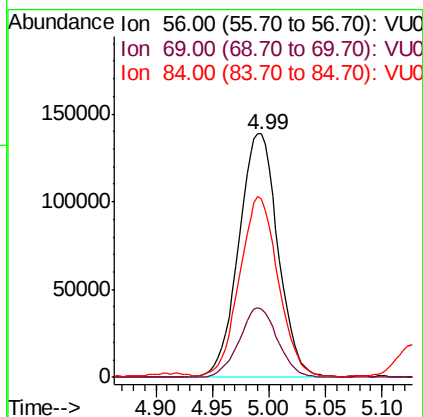
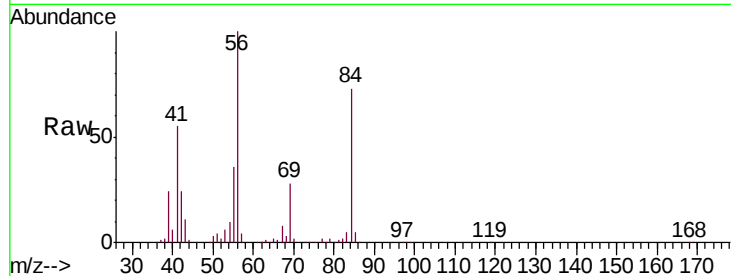




#29
Cyclohexane
Concen: 48.459 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VU030842.D
Acq: 07 Apr 2019 07:36

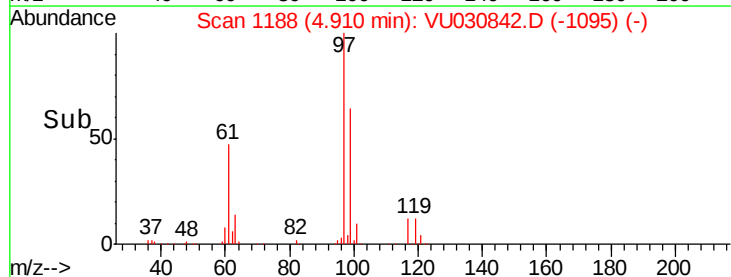
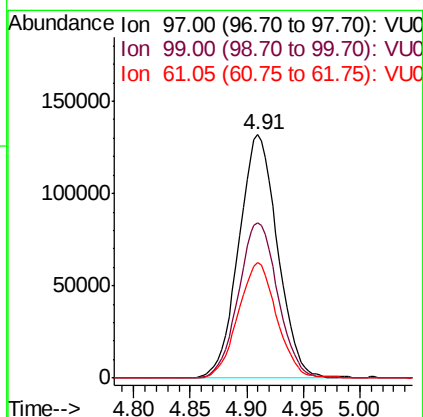
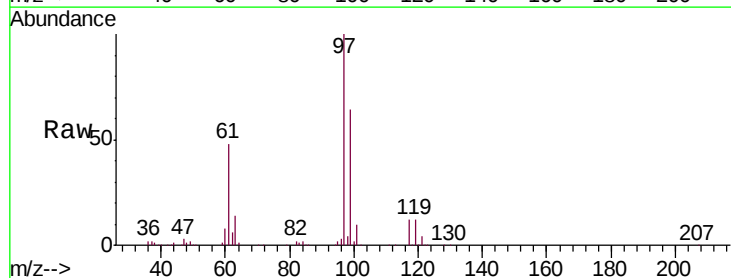
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

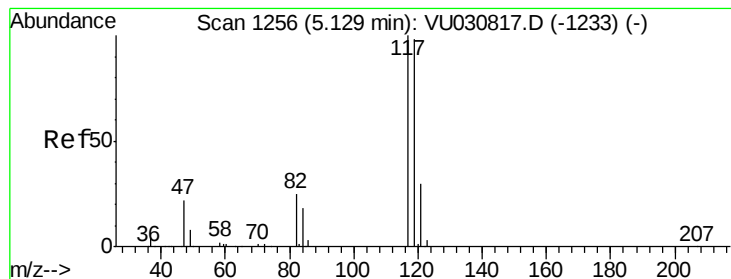
Tgt Ion: 56 Resp: 334910
Ion Ratio Lower Upper
56 100
69 27.8 22.0 33.0
84 72.1 58.2 87.2



#30
1,1,1-Trichloroethane
Concen: 53.282 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU030842.D
Acq: 07 Apr 2019 07:36

Tgt Ion: 97 Resp: 314868
Ion Ratio Lower Upper
97 100
99 64.6 51.4 77.2
61 47.4 37.1 55.7





#31

Carbon tetrachloride

Concen: 51.264 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

Instrument :

MSVOA_U

ClientSampleId :

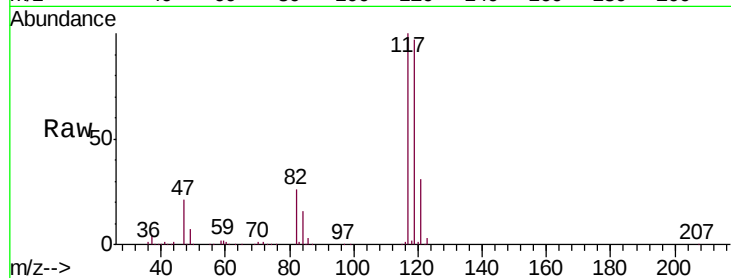
VSTD05055

Tgt Ion:117 Resp: 261055

Ion Ratio Lower Upper

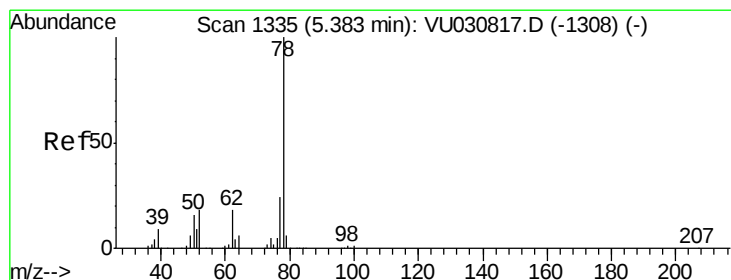
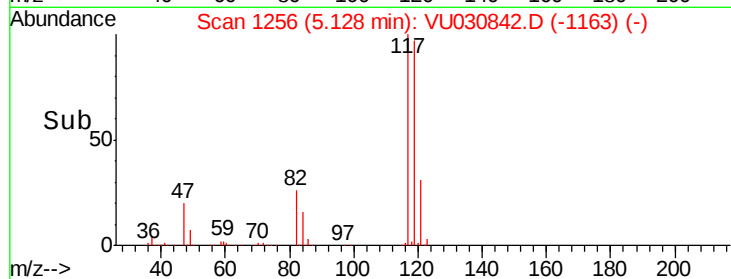
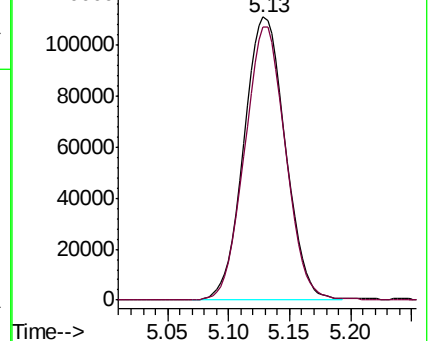
117 100

119 95.1 76.2 114.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.316 ug/L

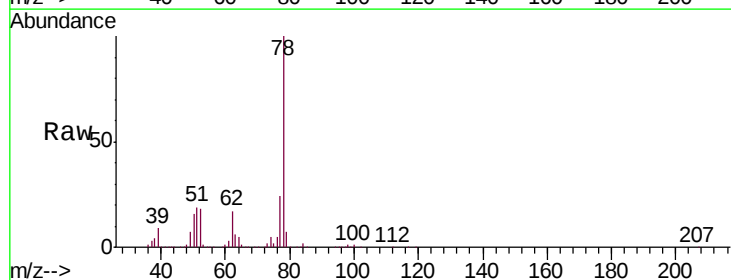
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

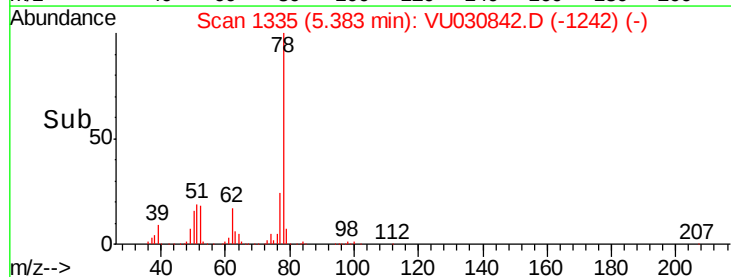
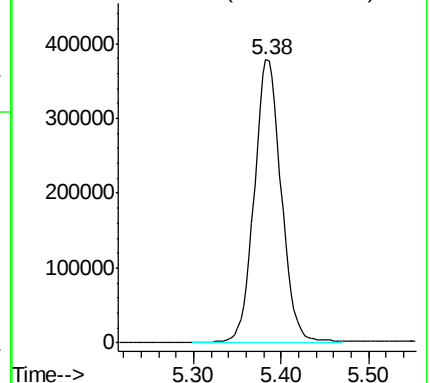
Lab File: VU030842.D

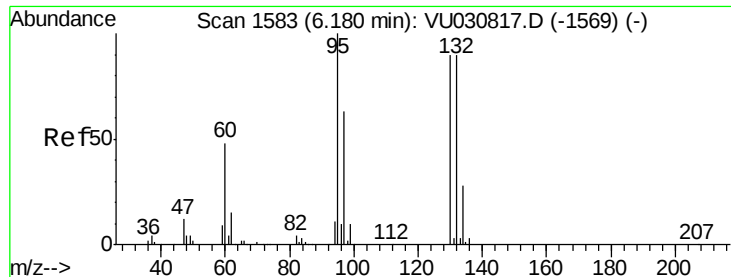
Acq: 07 Apr 2019 07:36

Tgt Ion: 78 Resp: 814291



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 50.490 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

Tgt Ion: 95 Resp: 196502

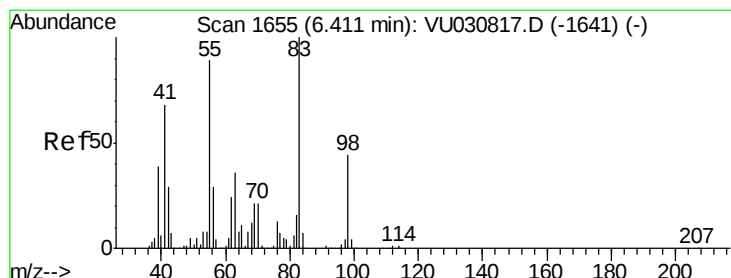
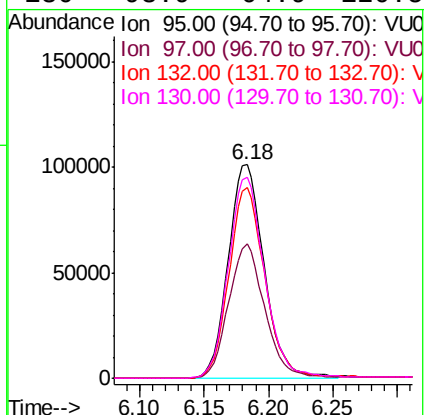
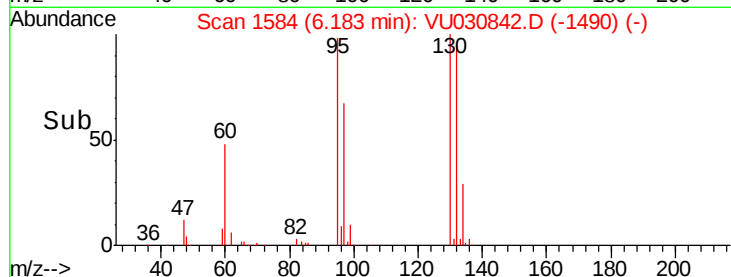
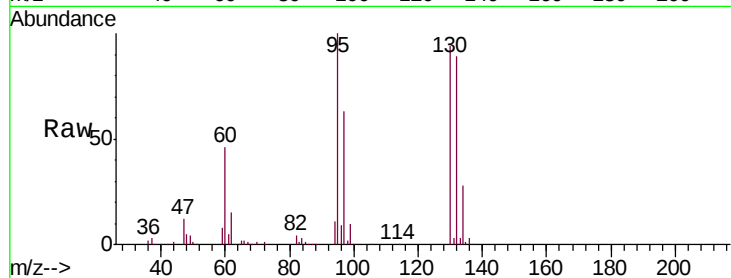
Ion Ratio Lower Upper

95 100

97 62.7 44.5 82.7

132 89.3 61.5 114.1

130 93.9 64.9 120.5



#35

Methylcyclohexane

Concen: 46.297 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

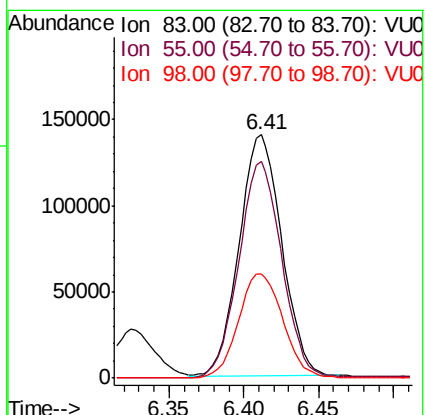
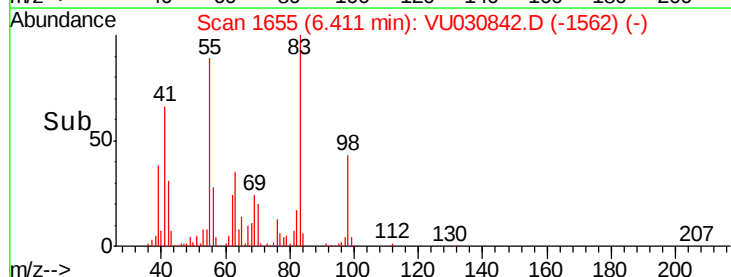
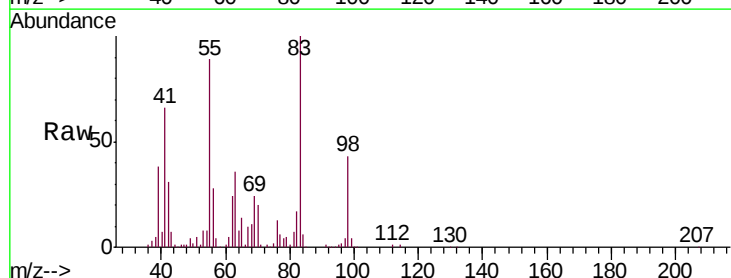
Tgt Ion: 83 Resp: 278070

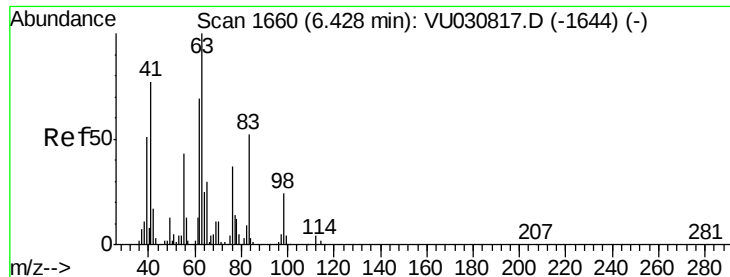
Ion Ratio Lower Upper

83 100

55 90.6 71.6 107.4

98 44.6 35.4 53.0

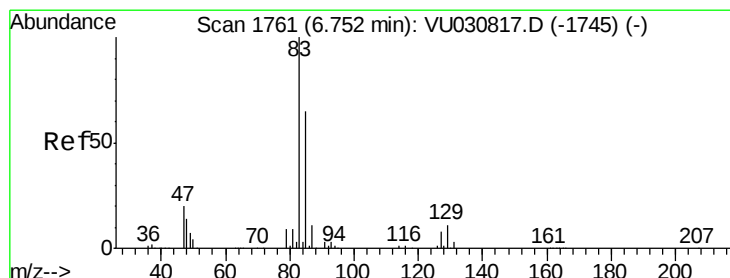
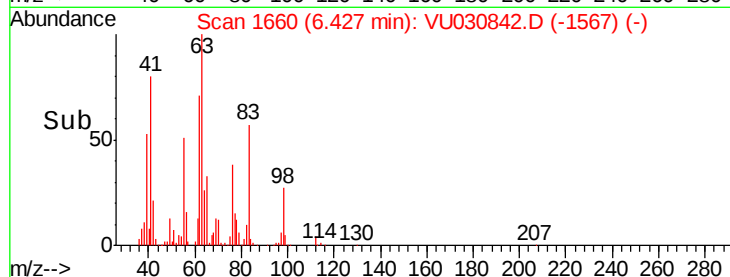
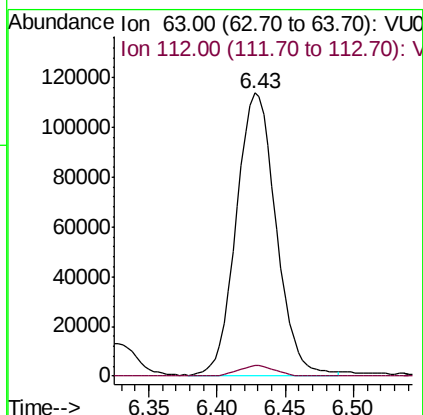
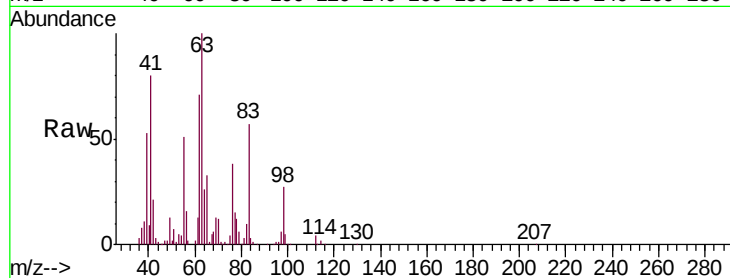




#37
 1,2-Dichloropropane
 Concen: 50.933 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU030842.D
 Acq: 07 Apr 2019 07:36

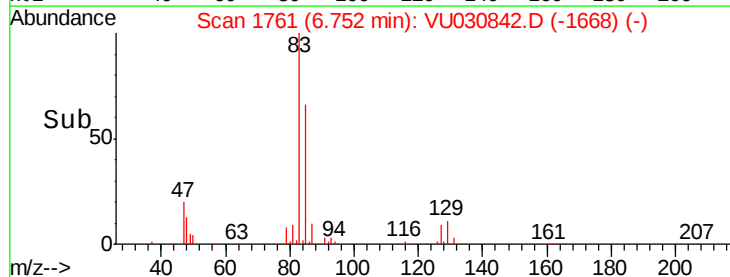
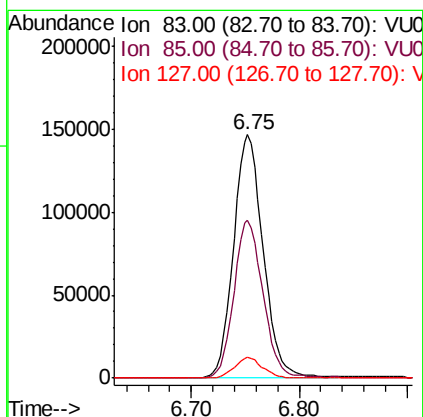
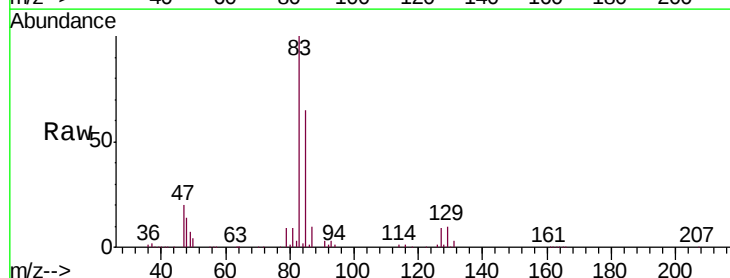
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

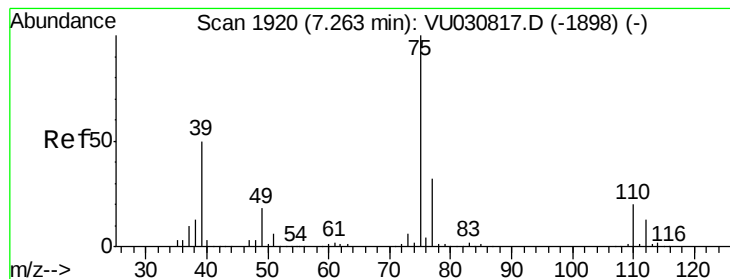
Tgt Ion: 63 Resp: 228852
 Ion Ratio Lower Upper
 63 100
 112 3.5 3.0 4.4



#38
 Bromodichloromethane
 Concen: 51.633 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU030842.D
 Acq: 07 Apr 2019 07:36

Tgt Ion: 83 Resp: 279873
 Ion Ratio Lower Upper
 83 100
 85 65.1 46.5 86.3
 127 8.6 6.6 10.0



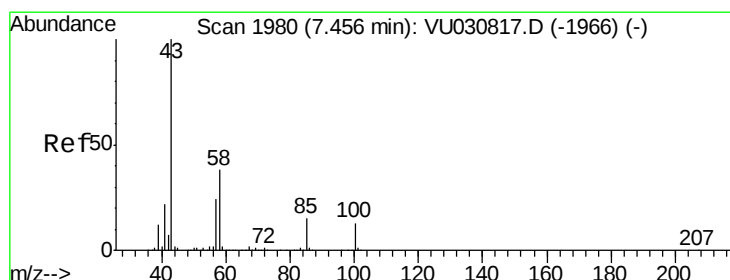
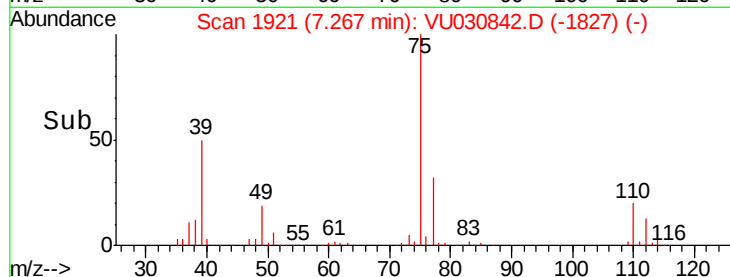
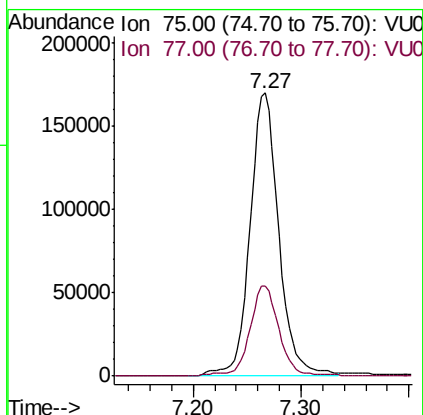
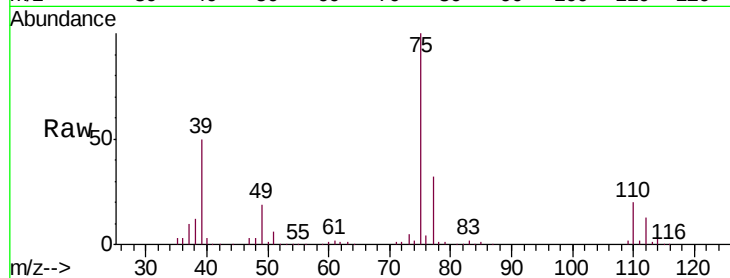


#39

cis-1,3-Dichloropropene
Concen: 49.242 ug/L
RT: 7.27 min Scan# 1921
Delta R.T. 0.00 min
Lab File: VU030842.D
Acq: 07 Apr 2019 07:36

Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

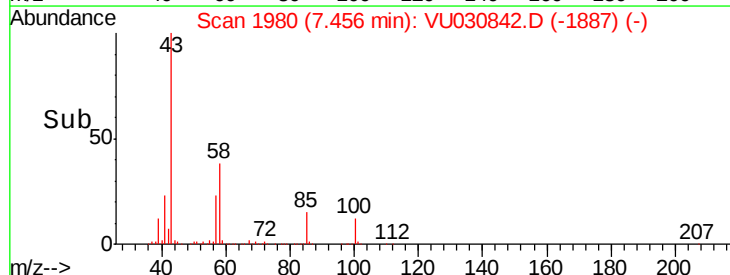
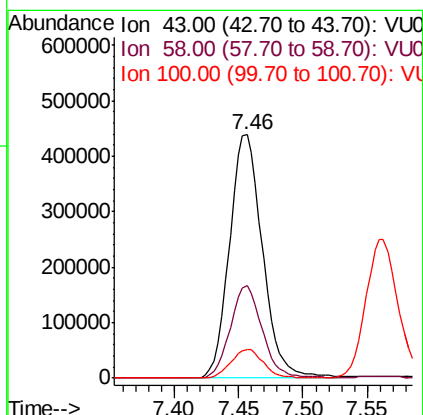
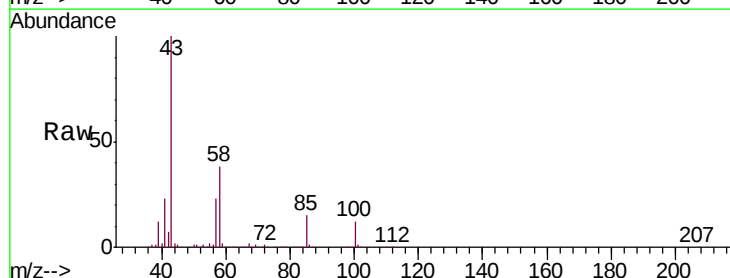
Tgt Ion: 75 Resp: 314924
Ion Ratio Lower Upper
75 100
77 32.0 23.1 42.9

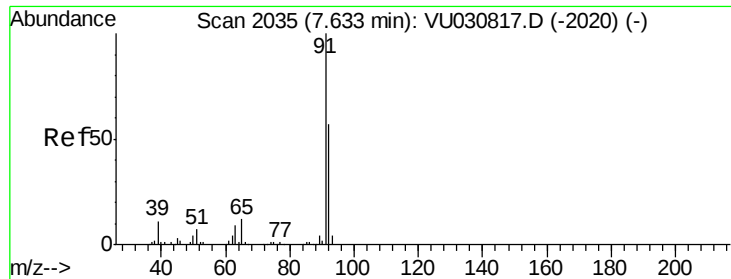


#40

4-Methyl-2-pentanone
Concen: 107.911 ug/L
RT: 7.46 min Scan# 1980
Delta R.T. -0.00 min
Lab File: VU030842.D
Acq: 07 Apr 2019 07:36

Tgt Ion: 43 Resp: 779703
Ion Ratio Lower Upper
43 100
58 36.6 29.7 44.5
100 11.9 9.8 14.6





#42

Toluene

Concen: 52.014 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

Instrument :

MSVOA_U

ClientSampleId :

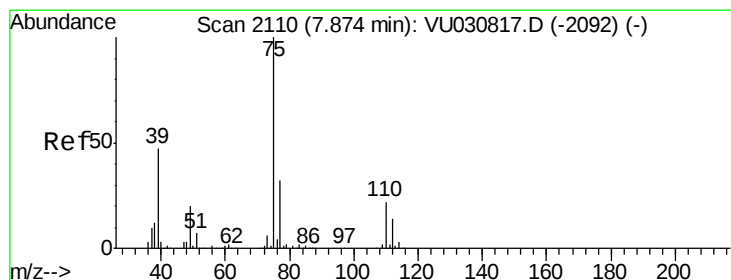
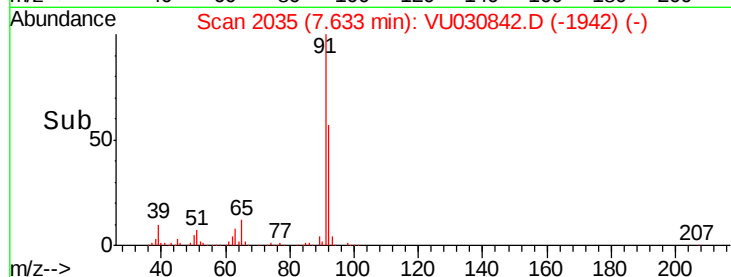
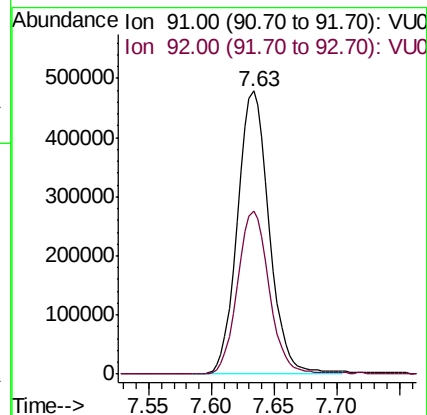
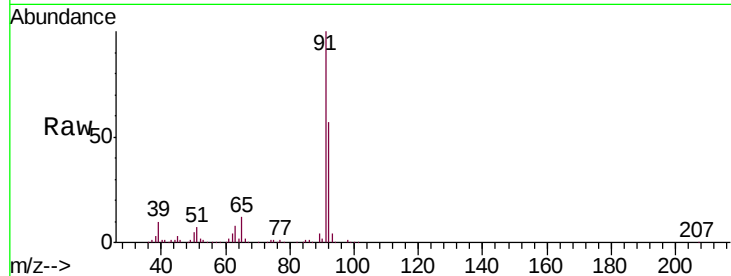
VSTD05055

Tgt Ion: 91 Resp: 842501

Ion Ratio Lower Upper

91 100

92 57.4 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 49.114 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU030842.D

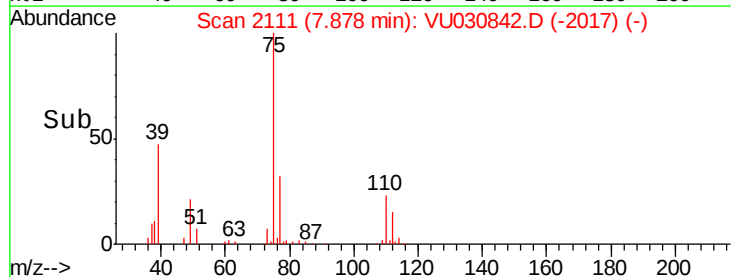
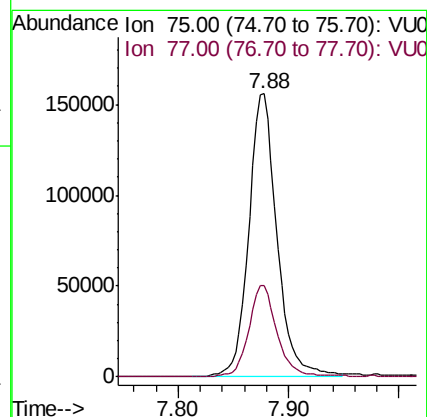
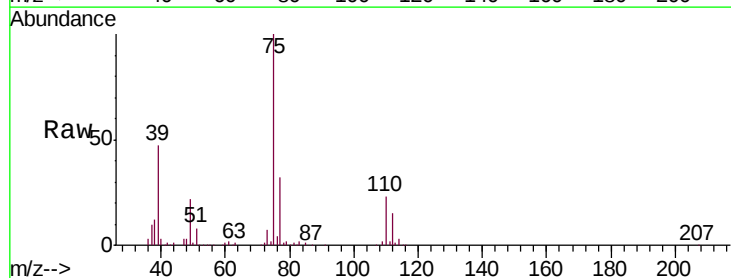
Acq: 07 Apr 2019 07:36

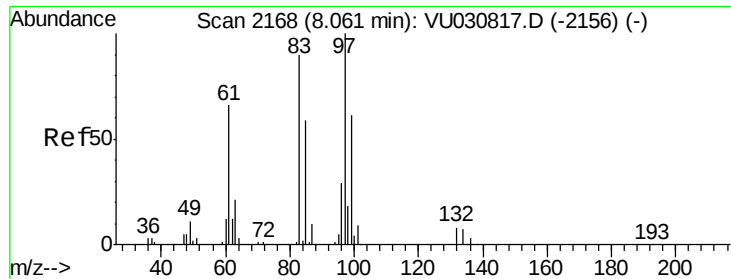
Tgt Ion: 75 Resp: 276807

Ion Ratio Lower Upper

75 100

77 32.3 21.6 40.0

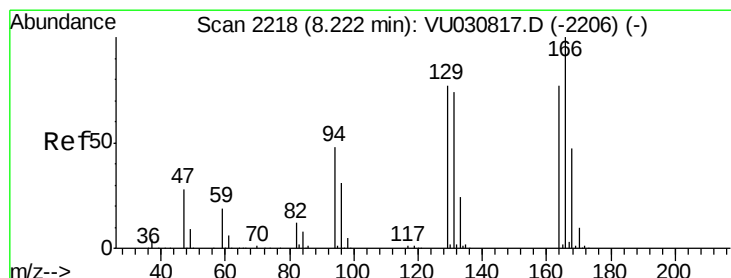
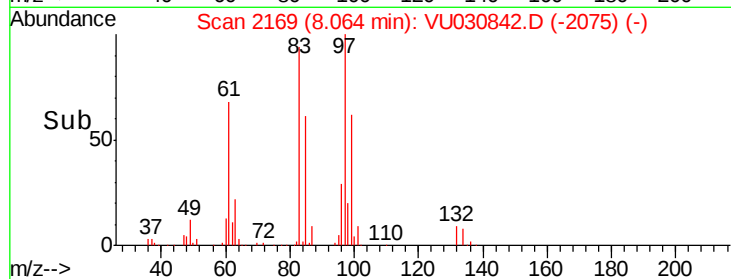
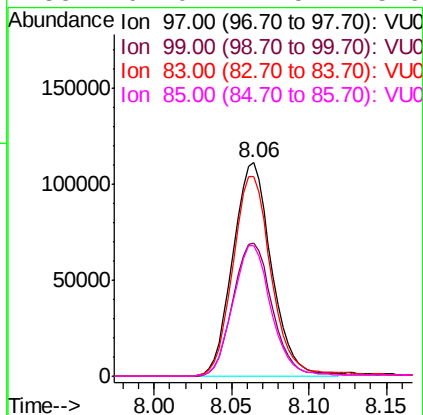
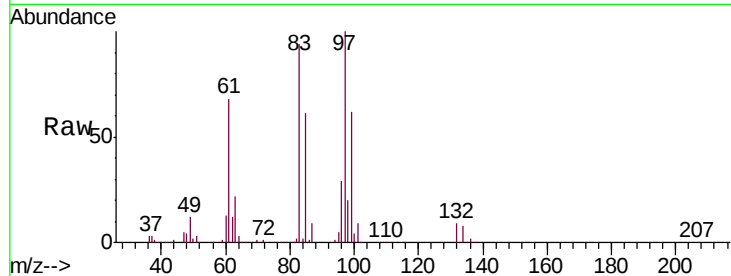




#45
 1,1,2-Trichloroethane
 Concen: 50.731 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU030842.D
 Acq: 07 Apr 2019 07:36

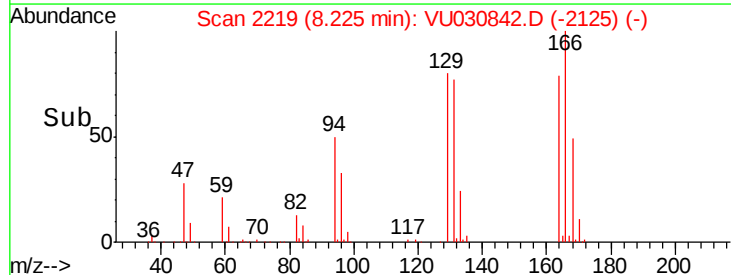
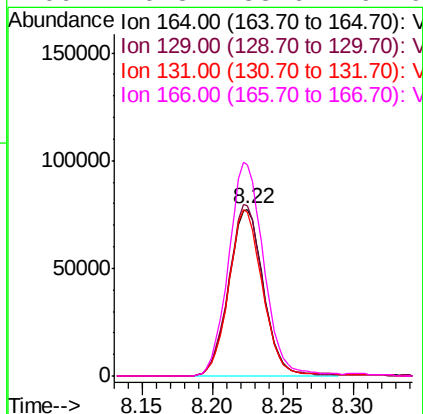
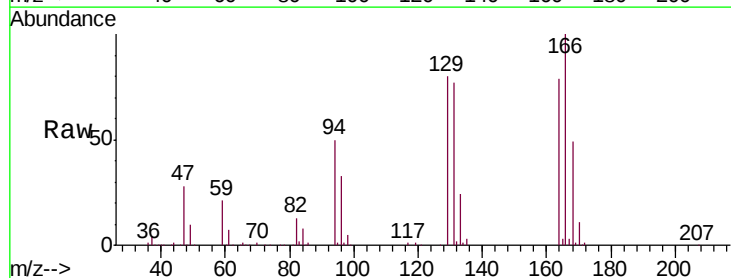
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

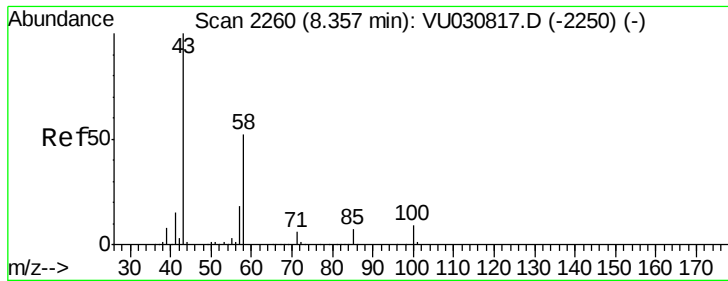
Tgt Ion:	97	Resp:	193321
Ion	Ratio	Lower	Upper
97	100		
99	62.3	44.0	81.8
83	93.7	65.3	121.3
85	61.0	42.5	78.9



#46
 Tetrachloroethene
 Concen: 47.283 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU030842.D
 Acq: 07 Apr 2019 07:36

Tgt Ion:	164	Resp:	133790
Ion	Ratio	Lower	Upper
164	100		
129	102.0	67.4	125.2
131	97.9	65.9	122.5
166	126.8	88.6	164.6



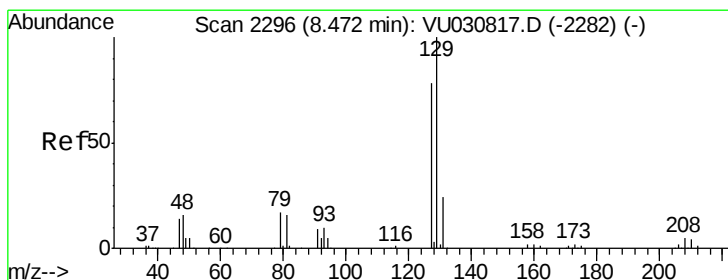
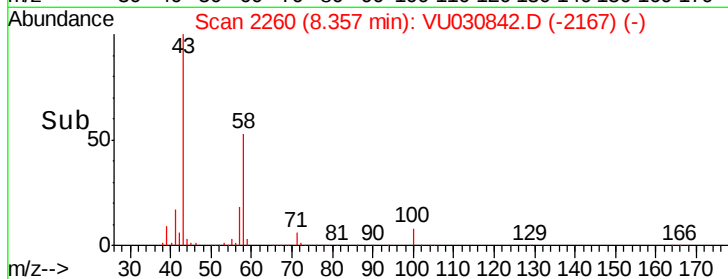
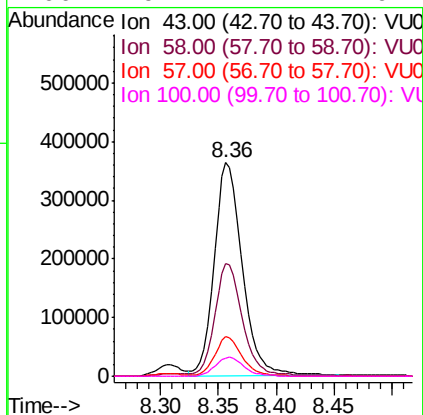
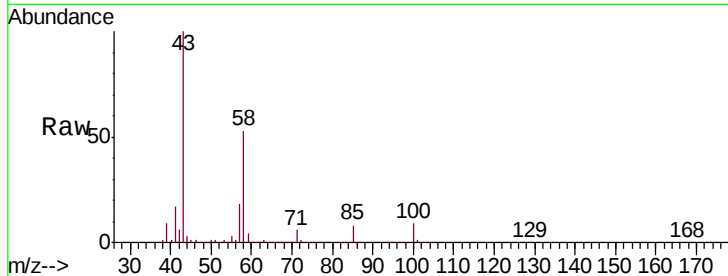


#48
 2-Hexanone
 Concen: 108.606 ug/L
 RT: 8.36 min Scan# 2260
 Delta R.T. -0.00 min
 Lab File: VU030842.D
 Acq: 07 Apr 2019 07:36

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05055

Tgt Ion: 43 Resp: 612236

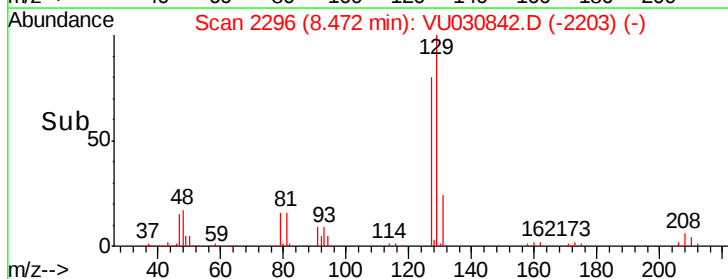
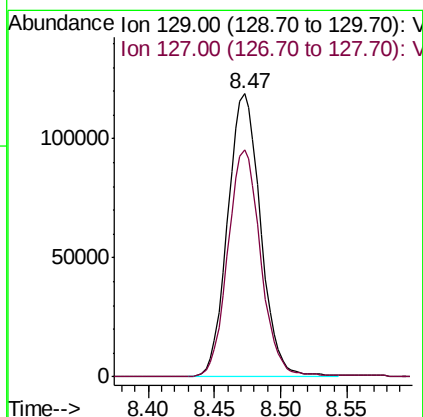
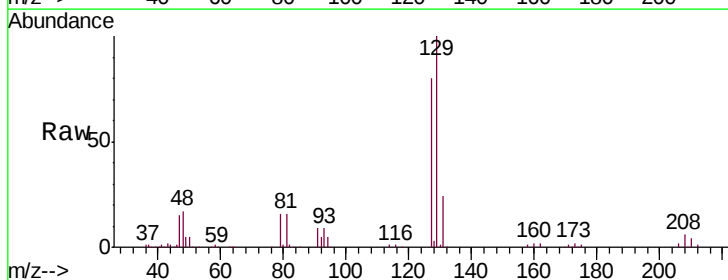
Ion	Ratio	Lower	Upper
43	100		
58	51.7	41.9	62.9
57	17.7	14.3	21.5
100	9.1	7.1	10.7

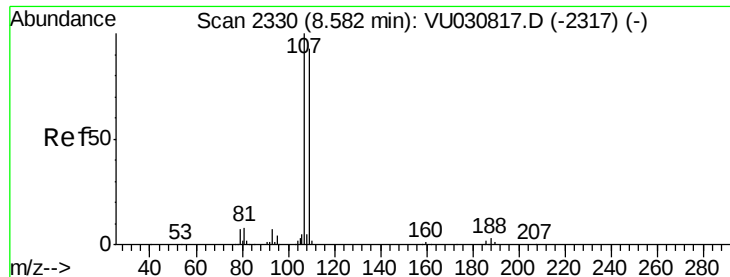


#49
 Dibromochloromethane
 Concen: 50.930 ug/L
 RT: 8.47 min Scan# 2296
 Delta R.T. -0.00 min
 Lab File: VU030842.D
 Acq: 07 Apr 2019 07:36

Tgt Ion: 129 Resp: 205937

Ion	Ratio	Lower	Upper
129	100		
127	80.4	54.5	101.3

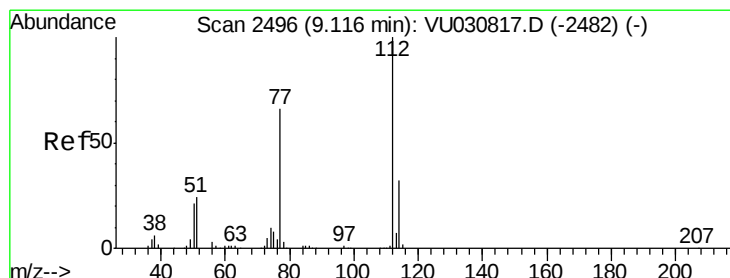
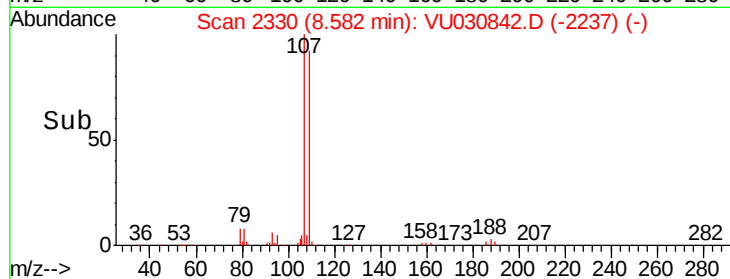
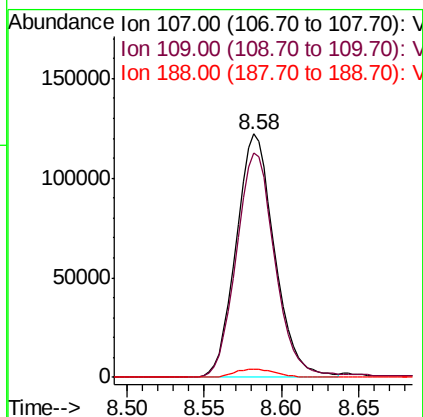
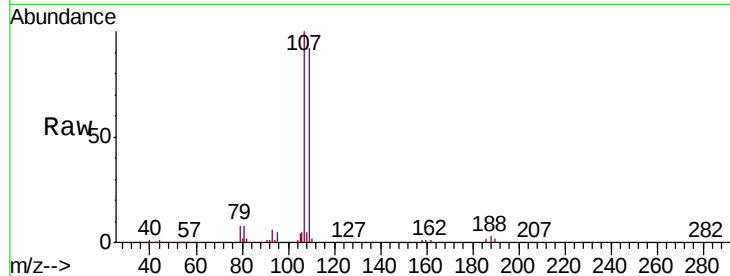




#50
 1,2-Dibromoethane
 Concen: 51.065 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. -0.00 min
 Lab File: VU030842.D
 Acq: 07 Apr 2019 07:36

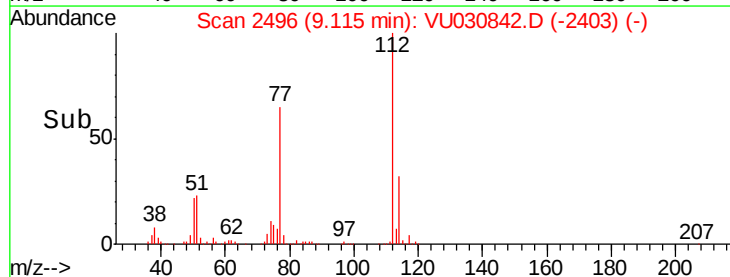
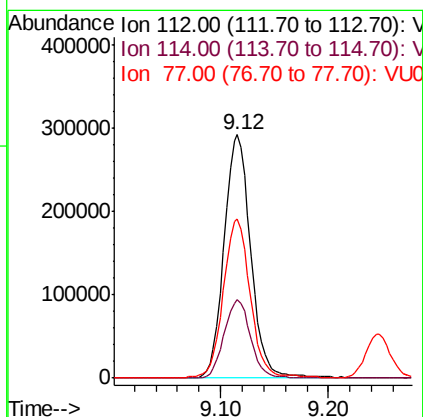
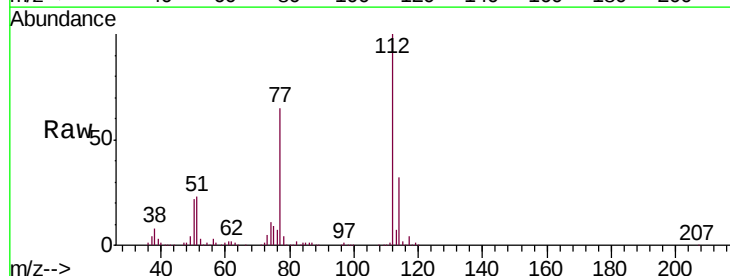
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

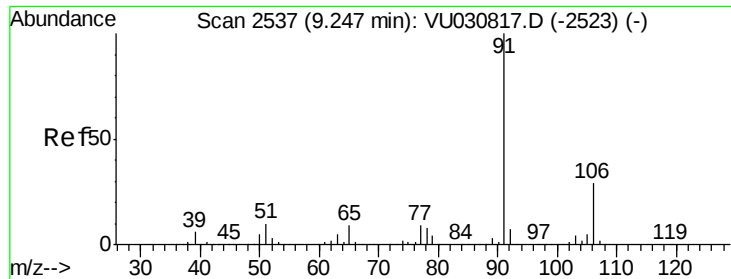
Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.3	66.4	123.2
188	3.3	2.6	4.0



#51
 Chlorobenzene
 Concen: 50.536 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. -0.00 min
 Lab File: VU030842.D
 Acq: 07 Apr 2019 07:36

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.2	41.2
77	65.3	51.7	77.5





#52

Ethylbenzene

Concen: 51.993 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

Instrument :

MSVOA_U

ClientSampleId :

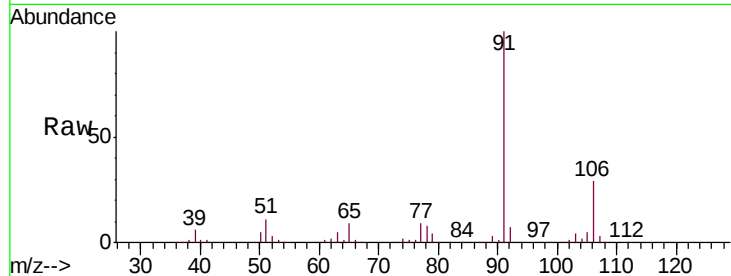
VSTD05055

Tgt Ion: 91 Resp: 917976

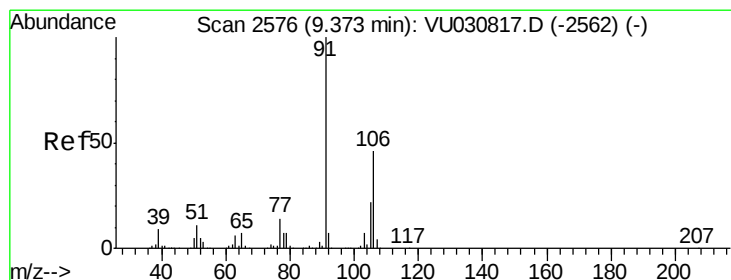
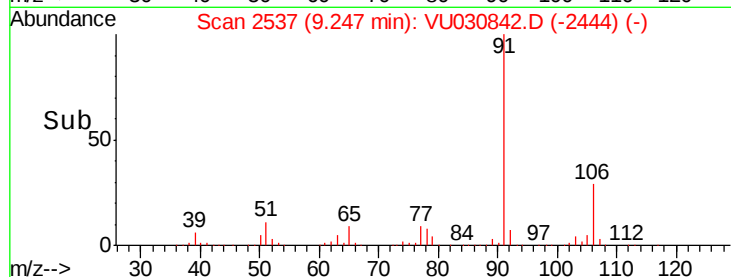
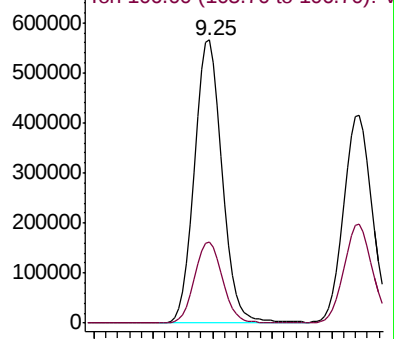
Ion Ratio Lower Upper

91 100

106 28.7 20.4 37.8



Abundance Ion 91.00 (90.70 to 91.70): VU030817.D (-2523) (-)



#53

m,p-Xylene

Concen: 53.401 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU030842.D

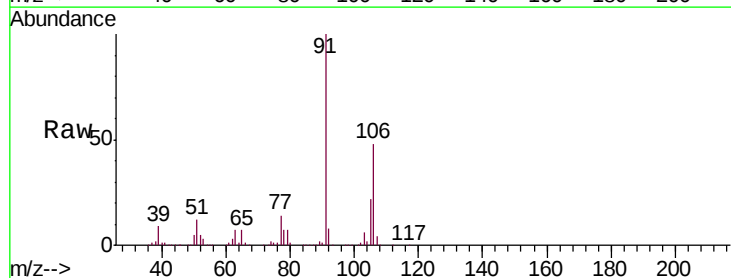
Acq: 07 Apr 2019 07:36

Tgt Ion: 106 Resp: 328827

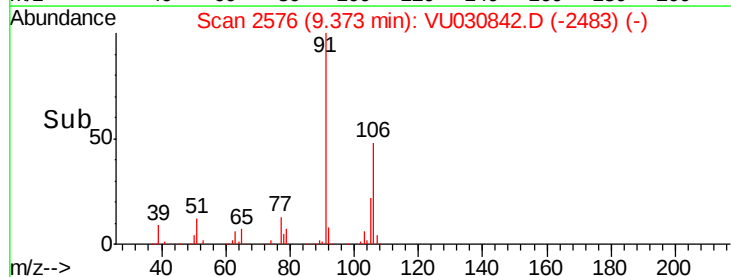
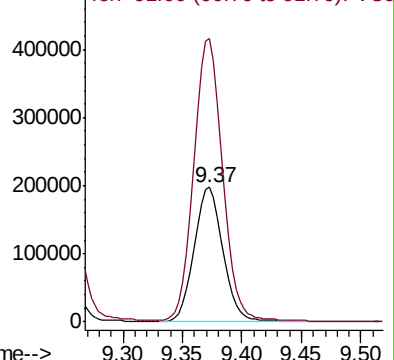
Ion Ratio Lower Upper

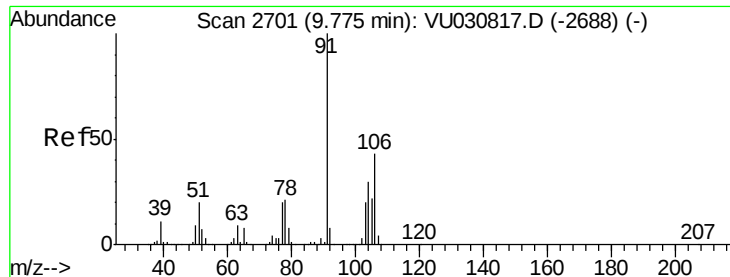
106 100

91 210.1 148.0 274.8



Abundance Ion 106.00 (105.70 to 106.70): VU030817.D (-2562) (-)





#54

o-xylene

Concen: 52.341 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

Instrument :

MSVOA_U

ClientSampleId :

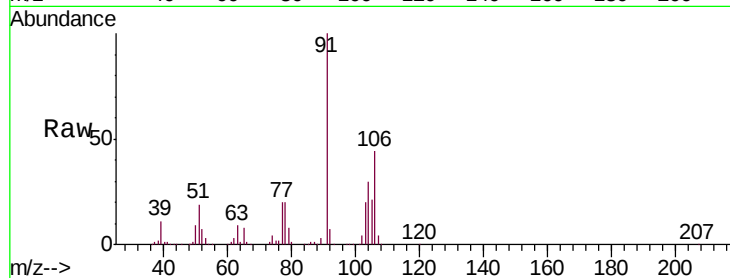
VSTD05055

Tgt Ion:106 Resp: 320587

Ion Ratio Lower Upper

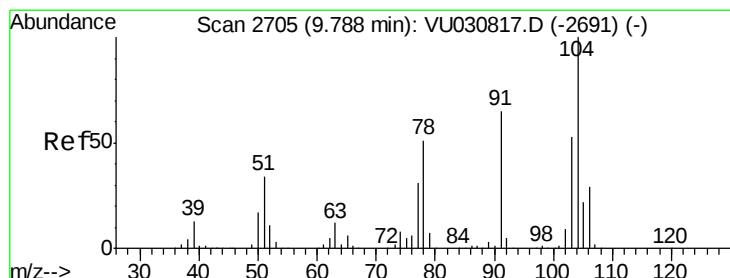
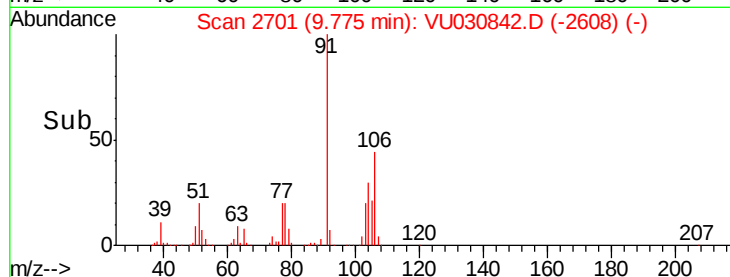
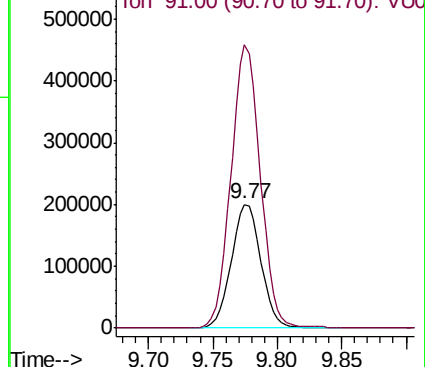
106 100

91 228.2 156.7 290.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.284 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU030842.D

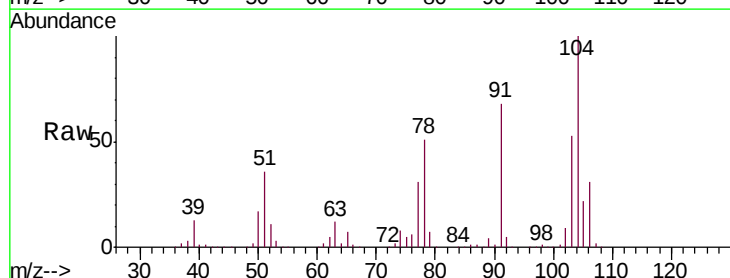
Acq: 07 Apr 2019 07:36

Tgt Ion:104 Resp: 559804

Ion Ratio Lower Upper

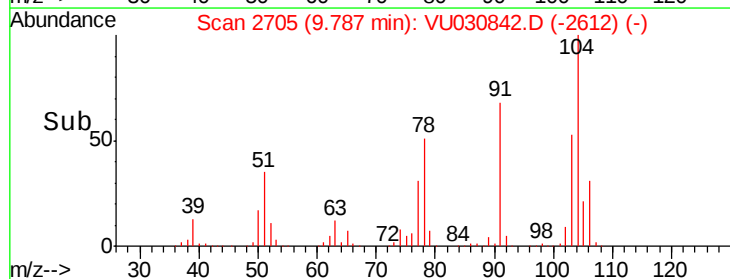
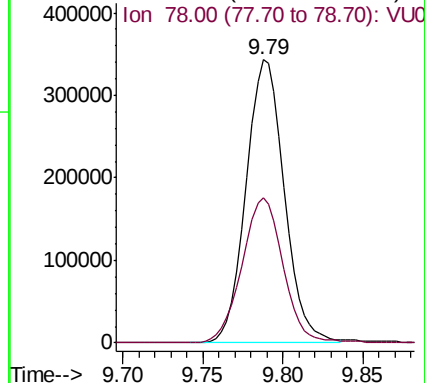
104 100

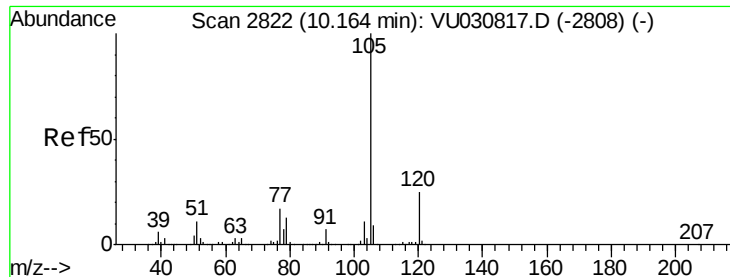
78 51.4 35.1 65.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.301 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

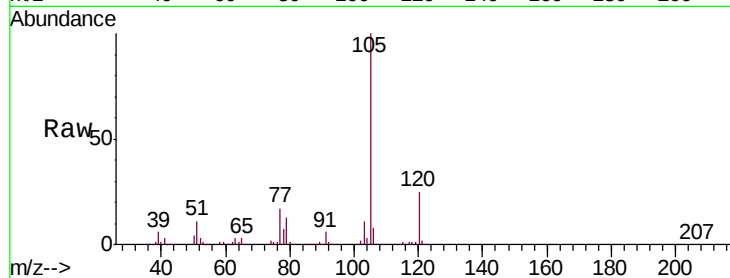
Tgt Ion: 105 Resp: 843416

Ion Ratio Lower Upper

105 100

120 25.1 20.4 30.6

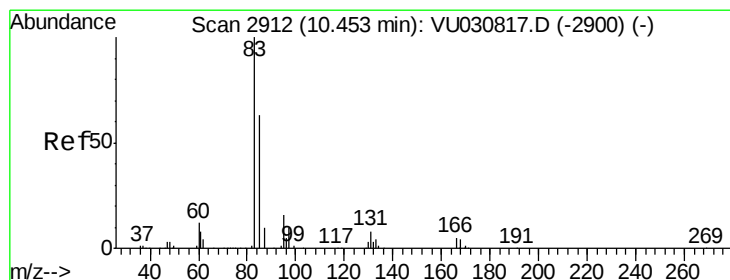
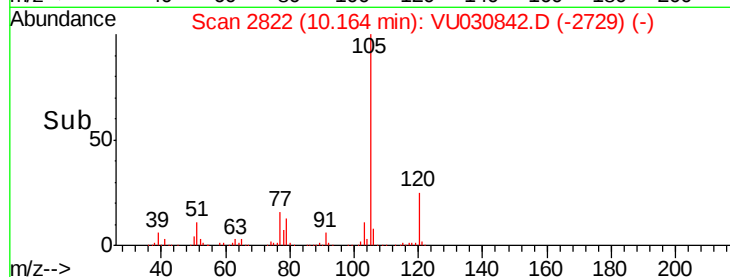
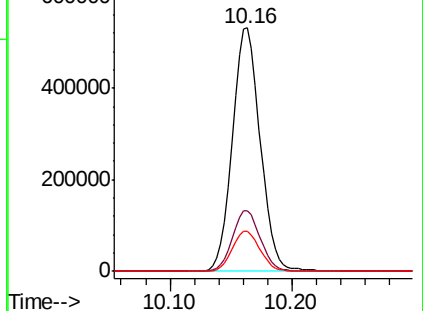
77 16.7 13.4 20.2



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: 52.357 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

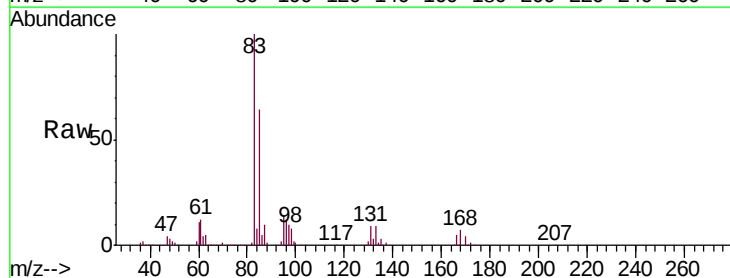
Tgt Ion: 83 Resp: 360878

Ion Ratio Lower Upper

83 100

85 64.0 45.3 84.1

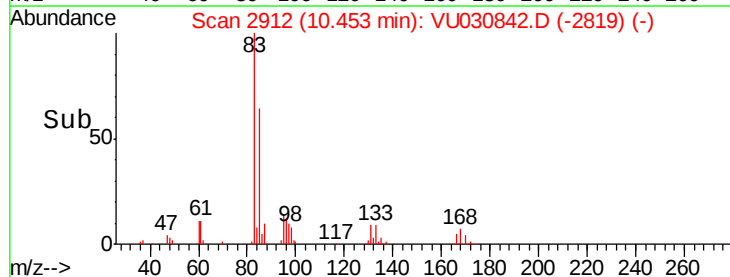
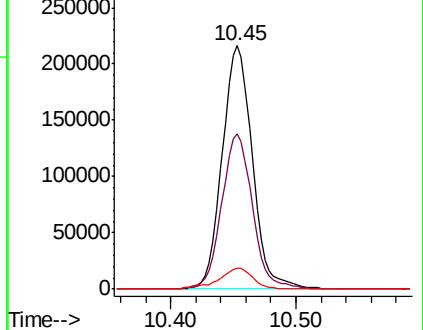
131 8.8 6.7 10.1

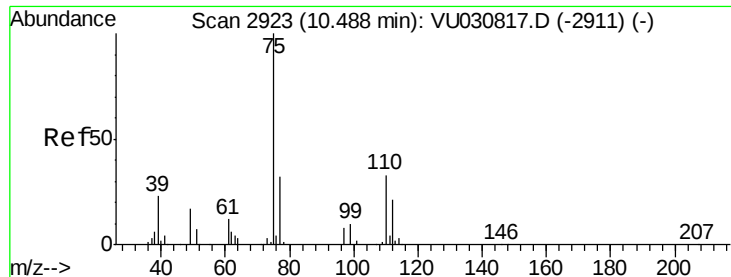


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 52.982 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

Instrument :

MSVOA_U

ClientSampleId :

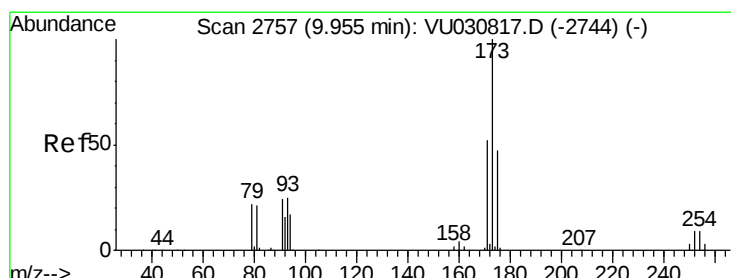
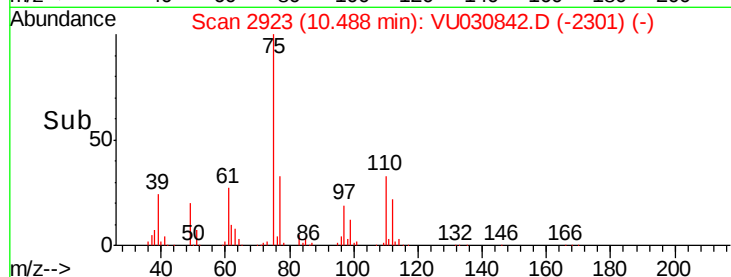
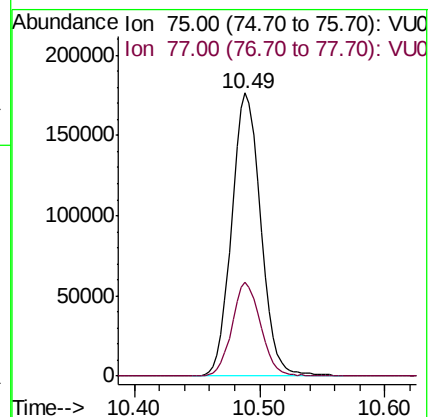
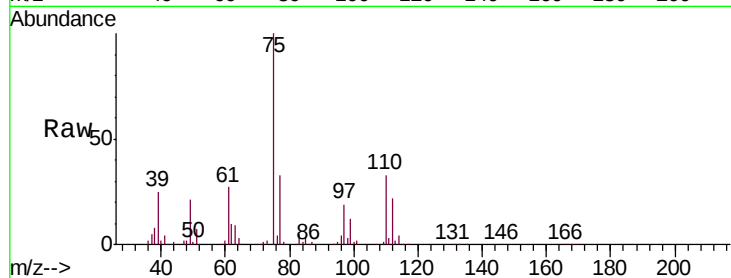
VSTD05055

Tgt Ion: 75 Resp: 285115

Ion Ratio Lower Upper

75 100

77 32.5 26.1 39.1



#61

Bromoform

Concen: 49.695 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

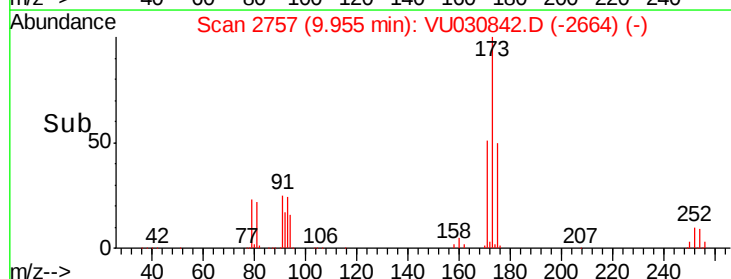
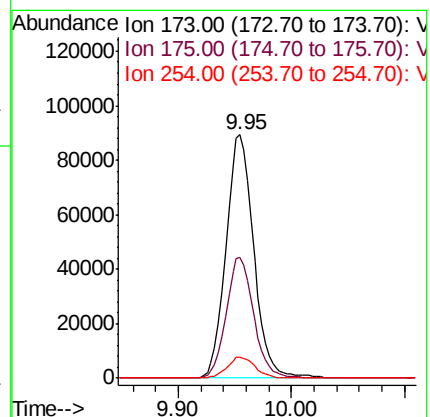
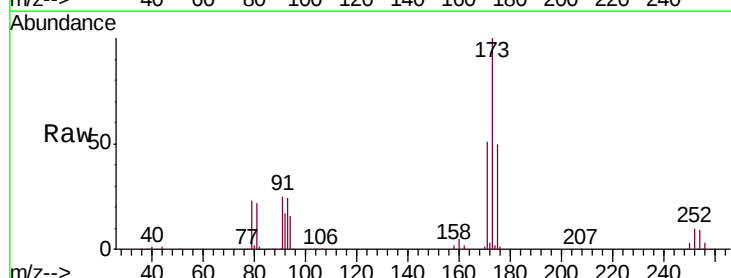
Tgt Ion: 173 Resp: 152570

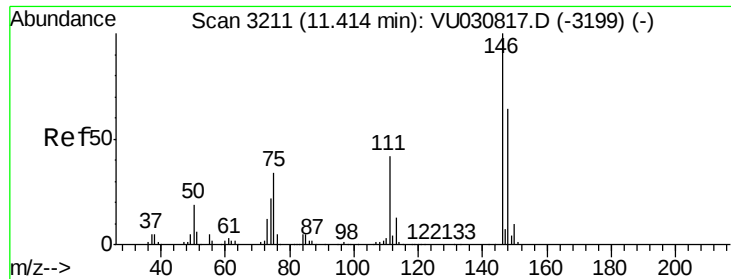
Ion Ratio Lower Upper

173 100

175 49.0 39.1 58.7

254 8.6 7.3 10.9

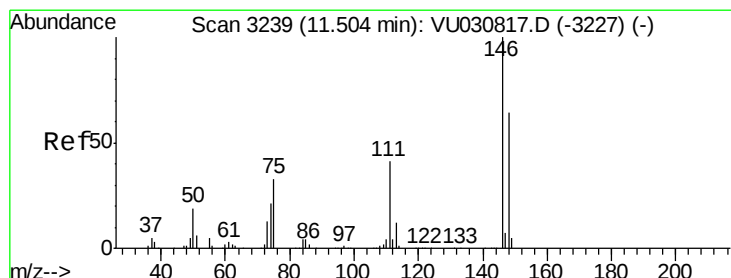
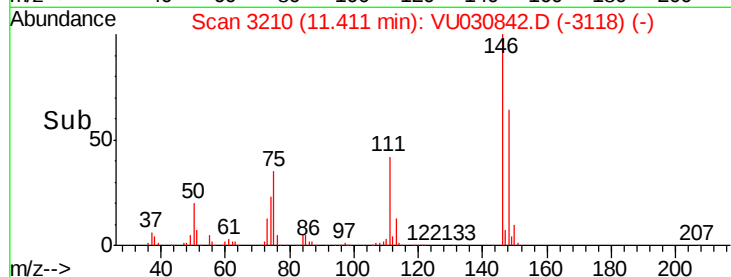
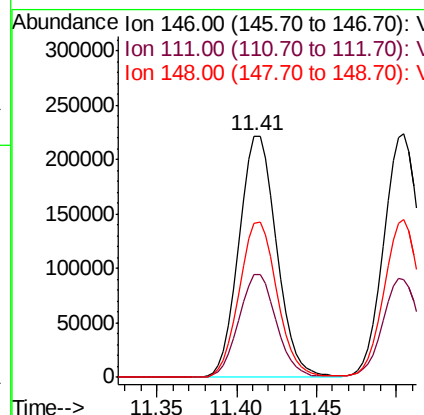
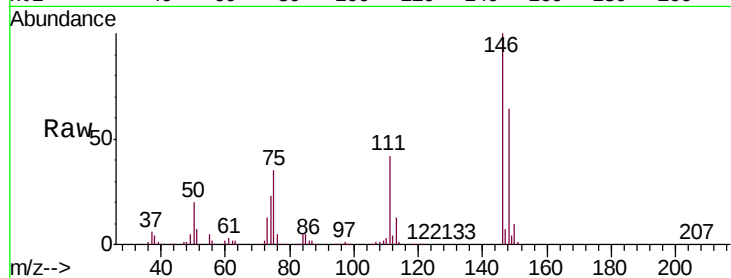




#62
 1,3-Dichlorobenzene
 Concen: 48.375 ug/L
 RT: 11.41 min Scan# 3210
 Delta R.T. -0.00 min
 Lab File: VU030842.D
 Acq: 07 Apr 2019 07:36

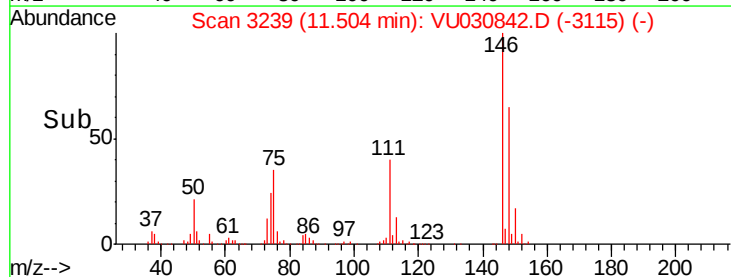
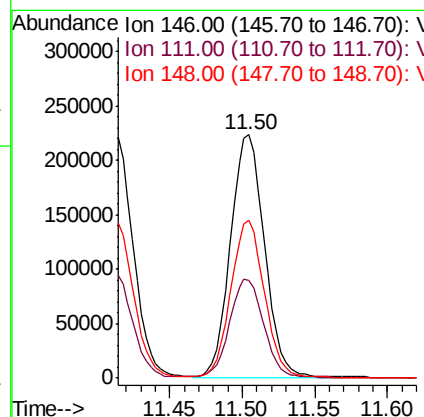
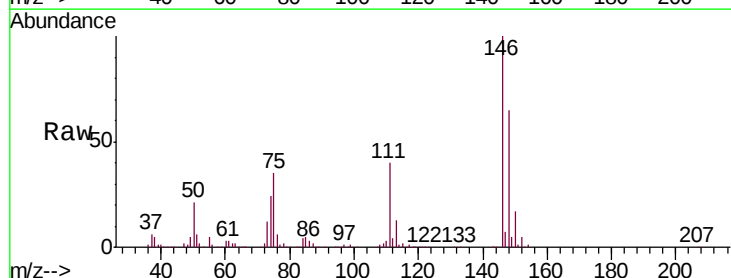
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

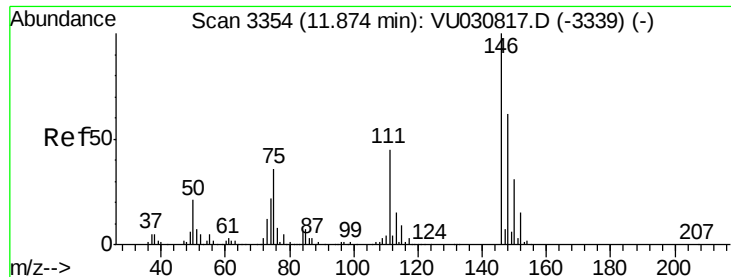
Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.3	30.9	57.5
148	64.0	44.7	82.9



#63
 1,4-Dichlorobenzene
 Concen: 48.812 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. -0.00 min
 Lab File: VU030842.D
 Acq: 07 Apr 2019 07:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.3	27.7	51.5
148	64.7	45.4	84.4





#65

1,2-Dichlorobenzene

Concen: 50.137 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

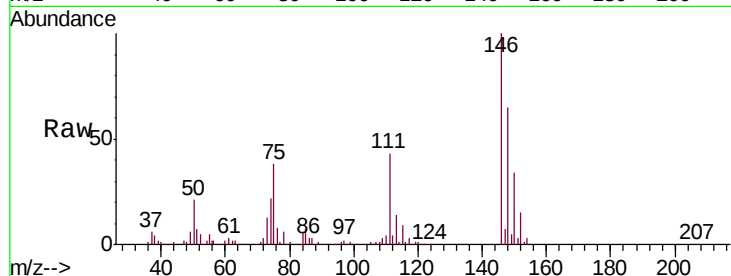
Tgt Ion:146 Resp: 369393

Ion Ratio Lower Upper

146 100

111 43.1 34.9 52.3

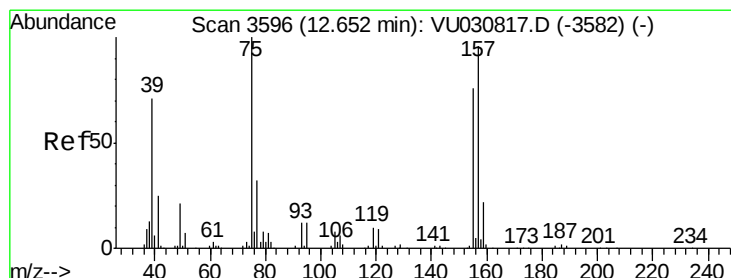
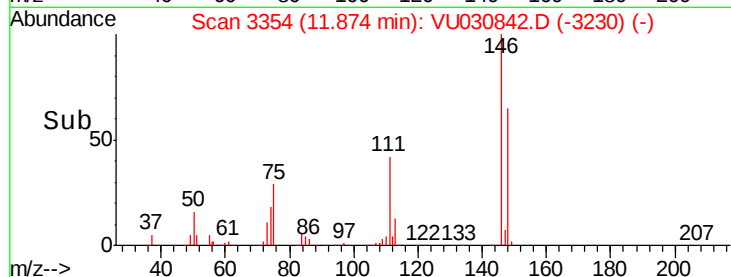
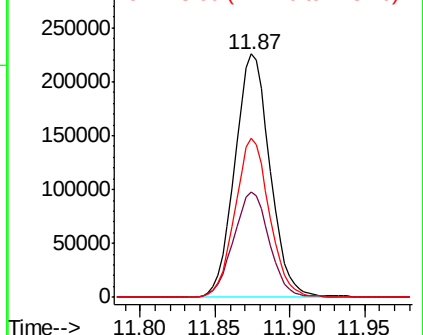
148 65.2 50.4 75.6



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



#66

1,2-Dibromo-3-chloropropane

Concen: 51.952 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

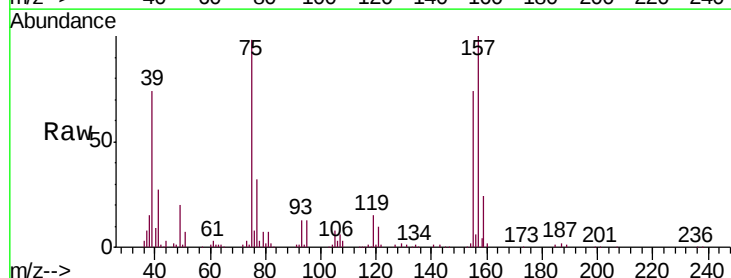
Tgt Ion: 75 Resp: 81370

Ion Ratio Lower Upper

75 100

155 75.1 64.1 96.1

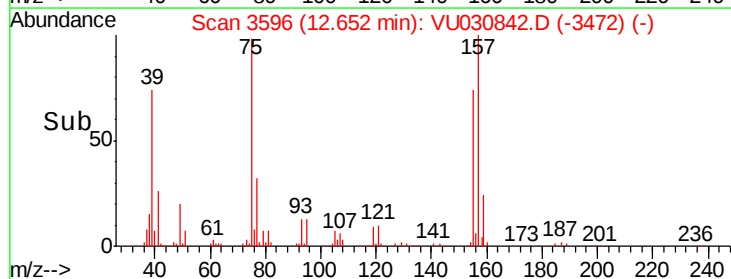
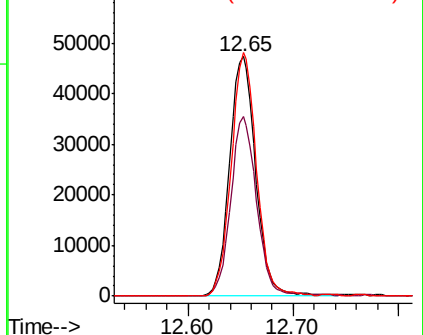
157 101.7 80.6 120.8

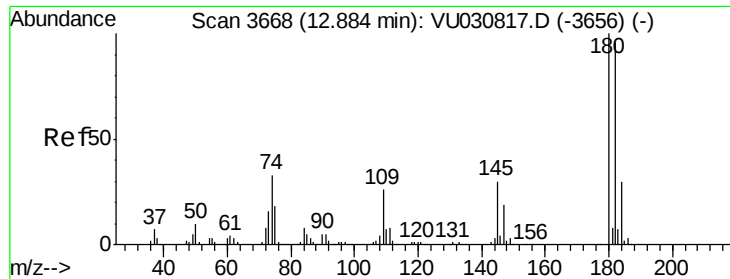


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

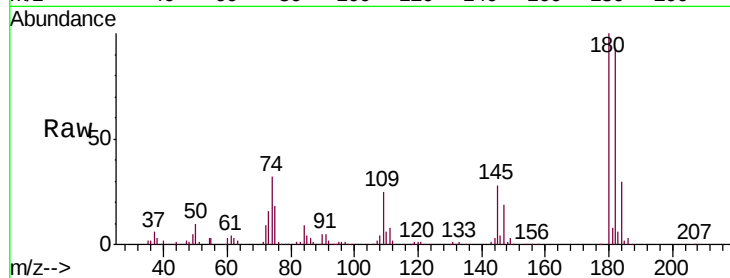




#67
 1,3,5-Trichlorobenzene
 Concen: 49.345 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU030842.D
 Acq: 07 Apr 2019 07:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.5	78.3	117.5
184	29.9	24.7	37.1
145	28.3	24.2	36.4



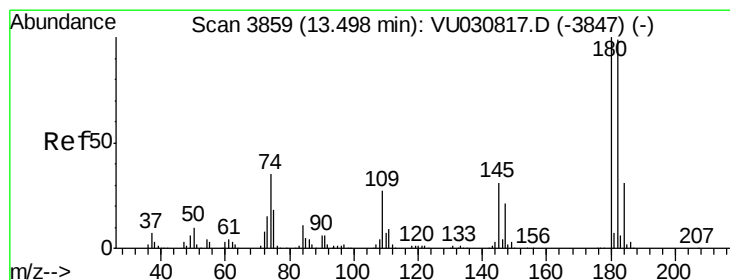
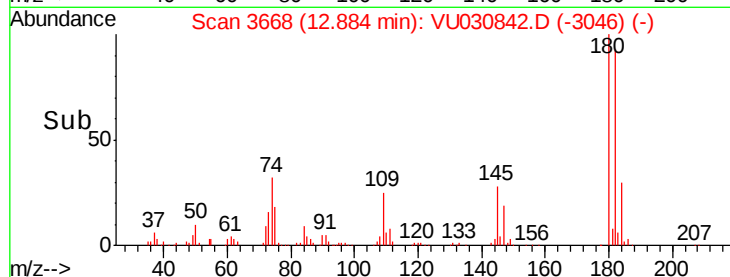
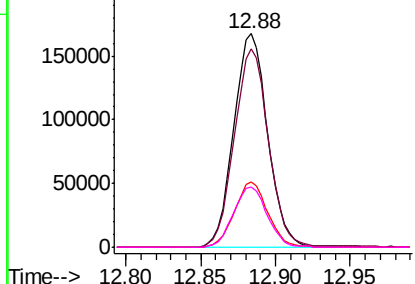
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

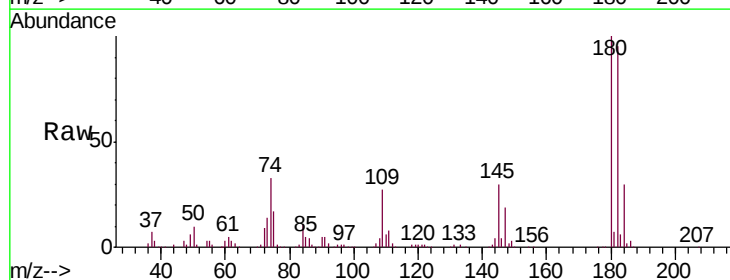
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 49.774 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU030842.D
 Acq: 07 Apr 2019 07:36

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.7	115.1
145	30.0	24.4	36.6

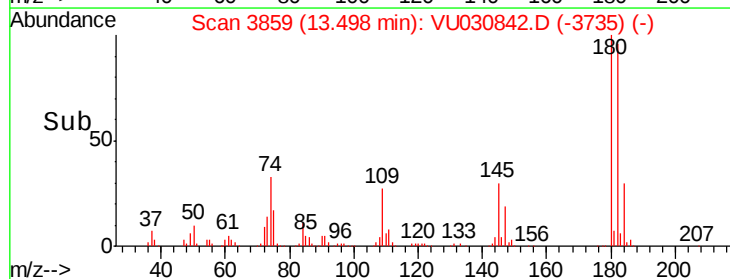
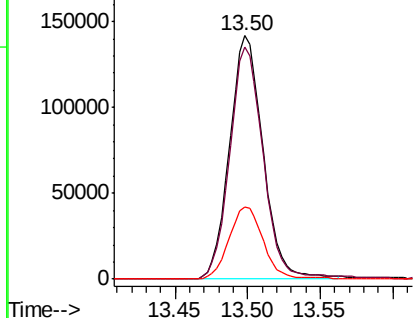


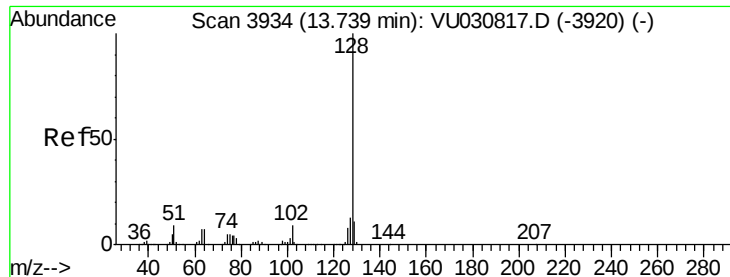
Abundance

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: 54.924 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

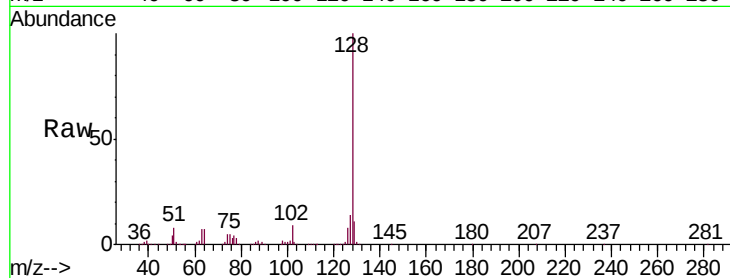
Tgt Ion:128 Resp: 812619

Ion Ratio Lower Upper

128 100

127 13.3 10.4 15.6

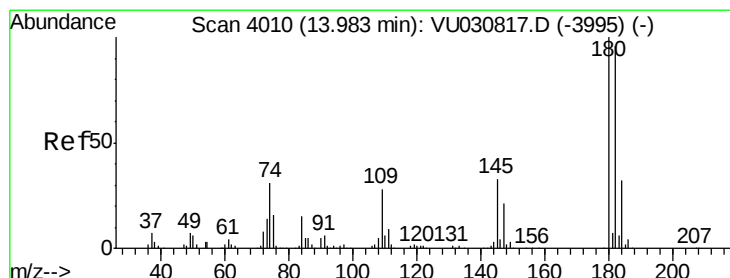
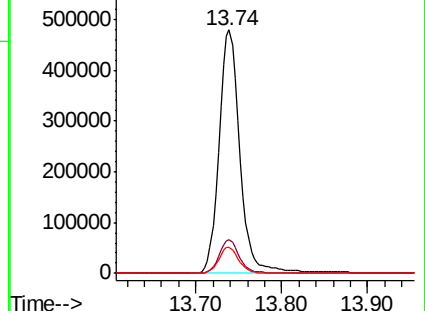
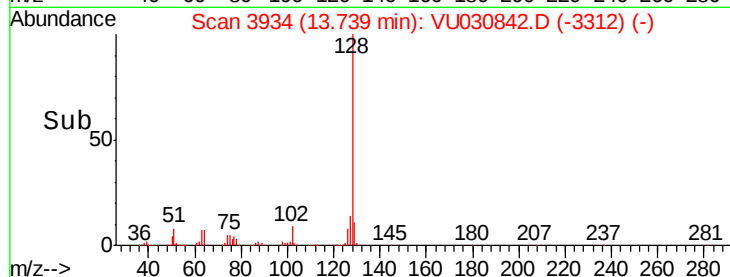
129 10.2 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 50.234 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU030842.D

Acq: 07 Apr 2019 07:36

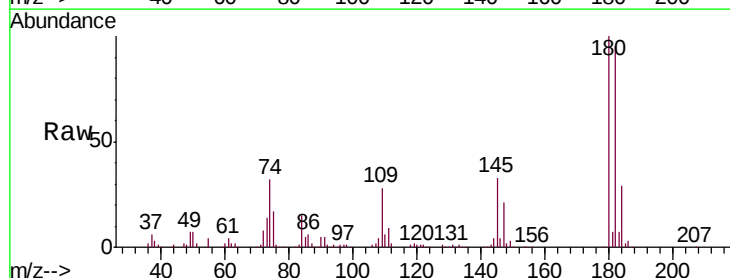
Tgt Ion:180 Resp: 239537

Ion Ratio Lower Upper

180 100

182 95.6 78.1 117.1

145 31.9 26.6 40.0



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

