

Data File : VU032014.D
Acq On : 14 May 2019 23:43
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 36 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

Quant Time: May 15 04:33:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 15 04:26:34 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	1103150	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	1092727	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	502786	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	394829	40.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	81.58%
7) Chloroethane-d5	1.67	69	330152	42.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	84.24%
11) 1,1-Dichloroethene-d2	2.27	63	731378	42.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.30%
21) 2-Butanone-d5	4.17	46	657546	97.00	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.00%
24) Chloroform-d	4.64	84	711964	43.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.88%
26) 1,2-Dichloroethane-d4	5.30	65	446632	43.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.52%
32) Benzene-d6	5.33	84	1470349	46.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.96%
36) 1,2-Dichloropropane-d6	6.32	67	479652	45.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.90%
41) Toluene-d8	7.56	98	1337464	47.19	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.38%
43) trans-1,3-Dichloropropene-	7.85	79	213733	46.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.84%
47) 2-Hexanone-d5	8.31	63	450082	106.34	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.34%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	717066	46.42	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.84%
64) 1,2-Dichlorobenzene-d4	11.85	152	485460	45.89	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.78%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	432564	42.591 ug/L	99
3) Chloromethane	1.32	50	493087	43.473 ug/L	100
5) Vinyl chloride	1.40	62	524410	44.135 ug/L	100
6) Bromomethane	1.61	94	204841	32.800 ug/L	97
8) Chloroethane	1.69	64	308874	43.934 ug/L	99
9) Trichlorofluoromethane	1.88	101	582156	43.290 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	353271	43.033 ug/L	98
12) 1,1-Dichloroethene	2.28	96	367988	45.168 ug/L	96
13) Acetone	2.32	43	460196	66.037 ug/L	99
14) Carbon disulfide	2.47	76	1143069	43.435 ug/L	98
15) Methyl Acetate	2.61	43	481334	45.489 ug/L #	100
16) Methylene chloride	2.70	84	443907	44.678 ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	393669	46.448 ug/L	96
18) Methyl tert-butyl Ether	2.99	73	1262843	48.490 ug/L	99
19) 1,1-Dichloroethane	3.44	63	755317	45.384 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	443482	47.306 ug/L	97
22) 2-Butanone	4.25	43	709585	88.279 ug/L	99

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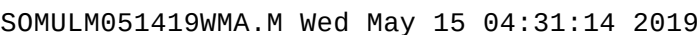
Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

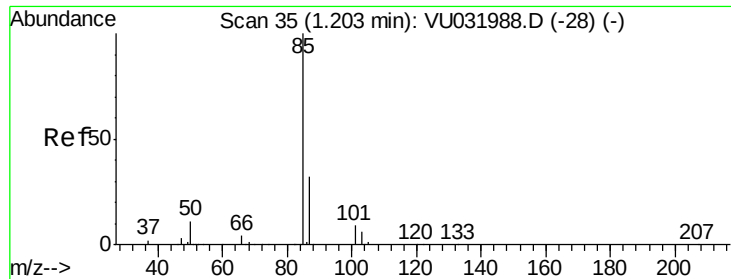
Quant Time: May 15 04:33:33 2019
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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	211940	46.127	ug/L	98
25) Chloroform	4.67	83	753445	45.808	ug/L	97
27) 1,2-Dichloroethane	5.40	62	572420	44.964	ug/L	98
29) Cyclohexane	4.99	56	685936	51.211	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	594198	46.896	ug/L	99
31) Carbon tetrachloride	5.13	117	485306	45.911	ug/L	99
33) Benzene	5.38	78	1732670	48.407	ug/L	100
34) Trichloroethene	6.18	95	419079	47.278	ug/L	99
35) Methylcyclohexane	6.41	83	654392	48.144	ug/L	99
37) 1,2-Dichloropropane	6.43	63	469895	48.878	ug/L	99
38) Bromodichloromethane	6.75	83	553495	47.115	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	667927	48.935	ug/L	99
40) 4-Methyl-2-pentanone	7.45	43	1311006	100.507	ug/L	99
42) Toluene	7.63	91	1834753	49.952	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	576748	48.115	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	419992	47.644	ug/L	97
46) Tetrachloroethene	8.22	164	294190	47.007	ug/L	97
48) 2-Hexanone	8.36	43	1028670	97.165	ug/L	99
49) Dibromochloromethane	8.47	129	413257	46.736	ug/L	98
50) 1,2-Dibromoethane	8.58	107	439037	47.063	ug/L	99
51) Chlorobenzene	9.12	112	1078005	46.225	ug/L	99
52) Ethylbenzene	9.24	91	1946622	49.525	ug/L	100
53) m,p-Xylene	9.37	106	715589	49.887	ug/L	100
54) o-xylene	9.77	106	737616	52.080	ug/L	99
55) Styrene	9.79	104	1257989	51.743	ug/L	100
56) Isopropylbenzene	10.16	105	1854402	51.101	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	744454	46.787	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	587165	46.824	ug/L	99
61) Bromoform	9.95	173	296532	44.190	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	777262	47.249	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	793329	45.593	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	821217	47.109	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	155275	46.107	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	565209	47.910	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	464916	51.165	ug/L	98
69) Naphthalene	13.74	128	1698593	56.145	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	513572	51.921	ug/L	100

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

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#2

Dichlorodifluoromethane

Concen: 42.591 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

Instrument :

MSVOA_U

ClientSampleId :

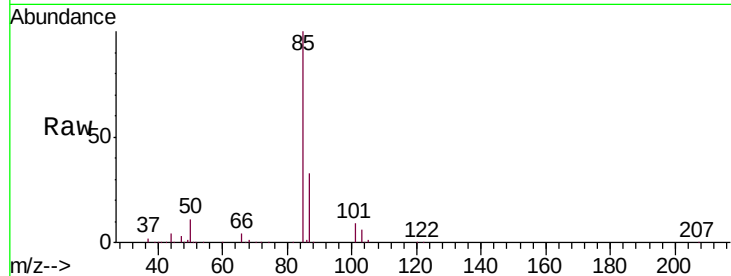
VSTD05045

Tgt Ion: 85 Resp: 432564

Ion Ratio Lower Upper

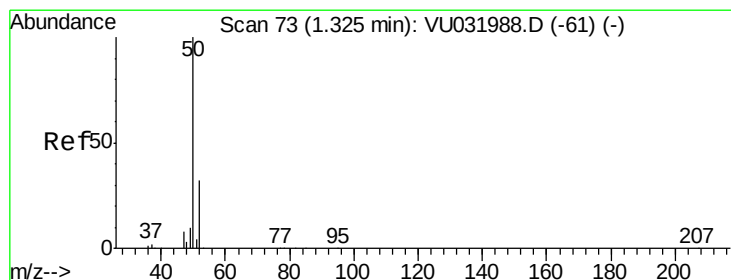
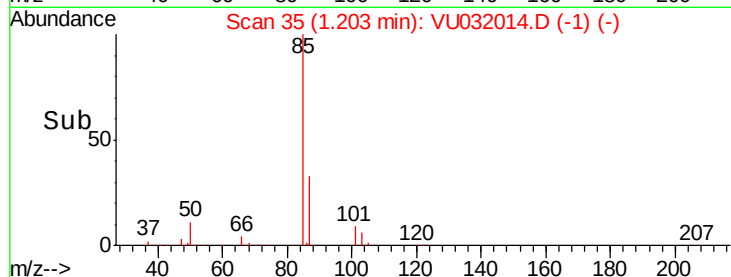
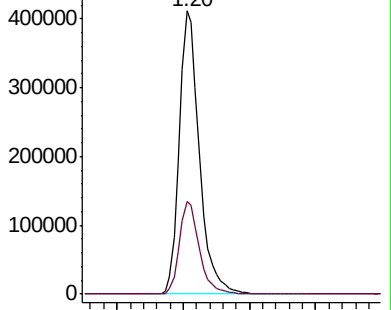
85 100

87 32.4 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU031988.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU031988.D (-28) (-)



#3

Chloromethane

Concen: 43.473 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU032014.D

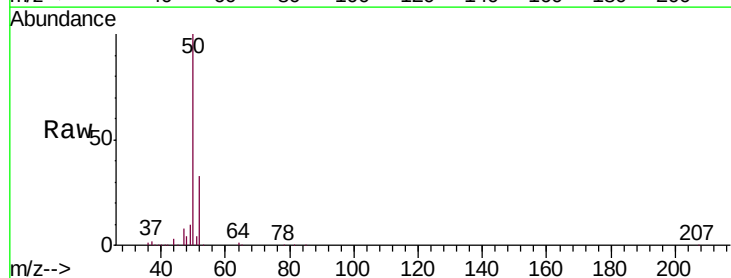
Acq: 14 May 2019 23:43

Tgt Ion: 50 Resp: 493087

Ion Ratio Lower Upper

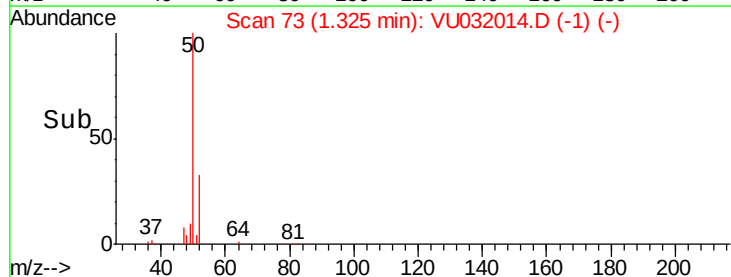
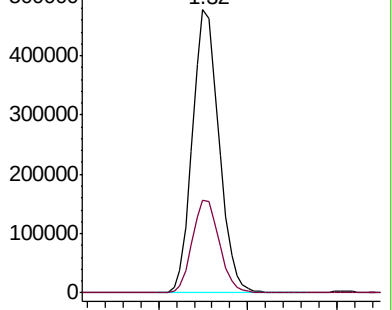
50 100

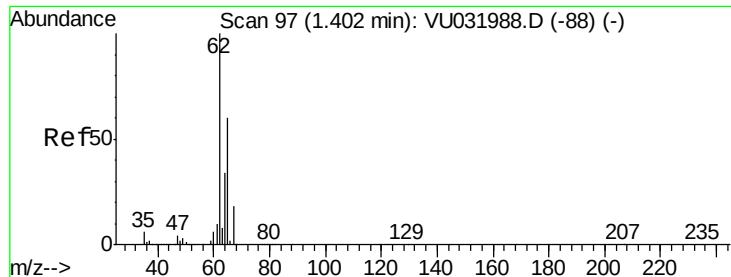
52 32.9 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU031988.D (-61) (-)

Ion 52.00 (51.70 to 52.70): VU031988.D (-61) (-)





#5

Vinyl chloride

Concen: 44.135 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

Instrument :

MSVOA_U

ClientSampleId :

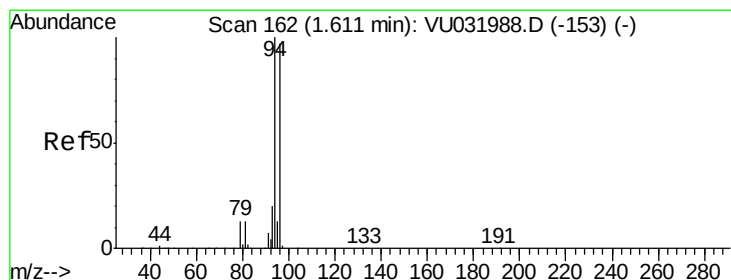
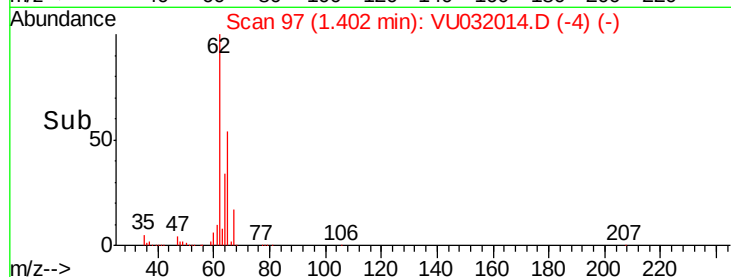
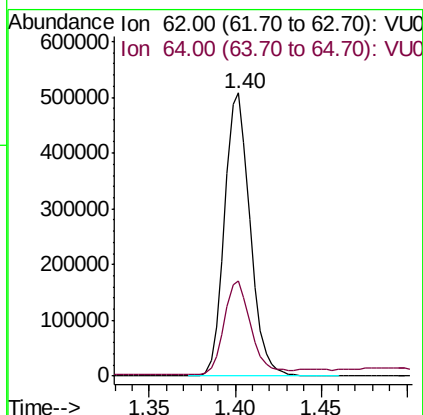
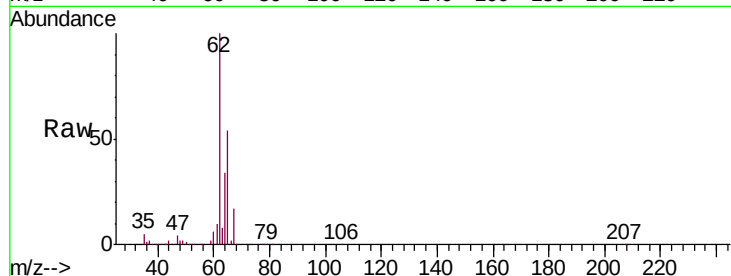
VSTD05045

Tgt Ion: 62 Resp: 524410

Ion Ratio Lower Upper

62 100

64 33.5 23.6 43.8



#6

Bromomethane

Concen: 32.800 ug/L

RT: 1.61 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU032014.D

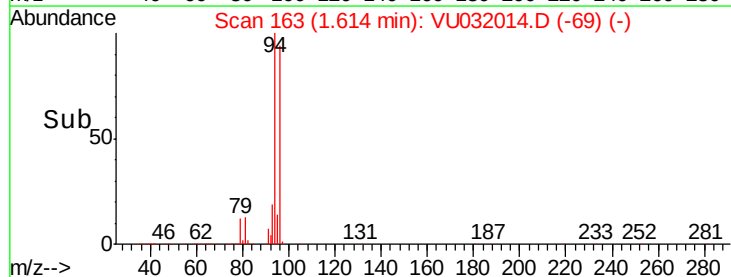
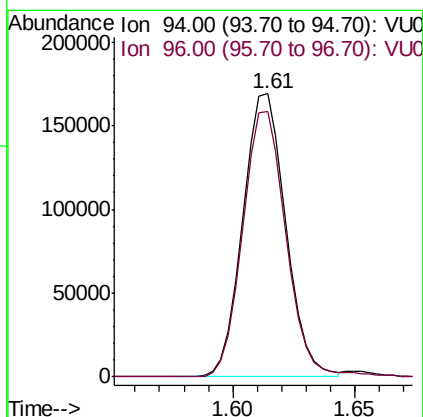
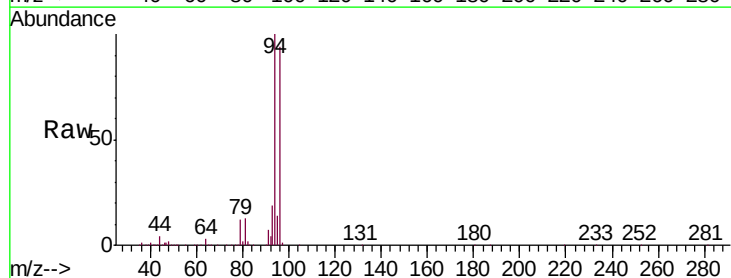
Acq: 14 May 2019 23:43

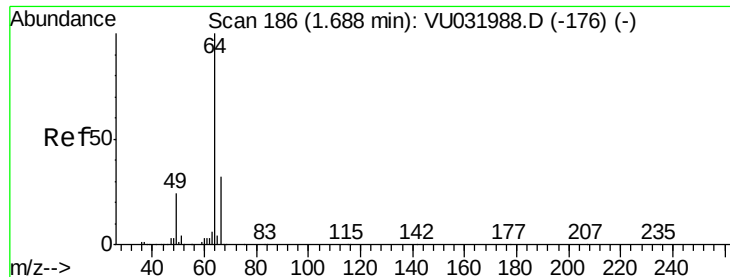
Tgt Ion: 94 Resp: 204841

Ion Ratio Lower Upper

94 100

96 93.8 64.0 118.8

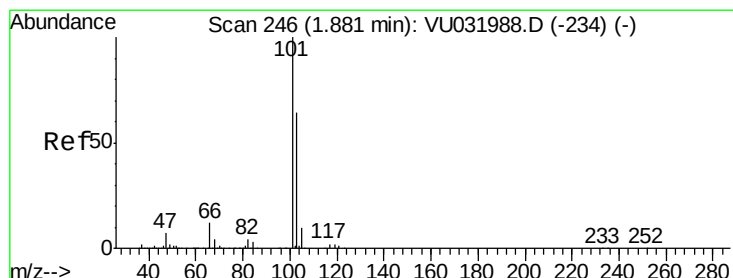
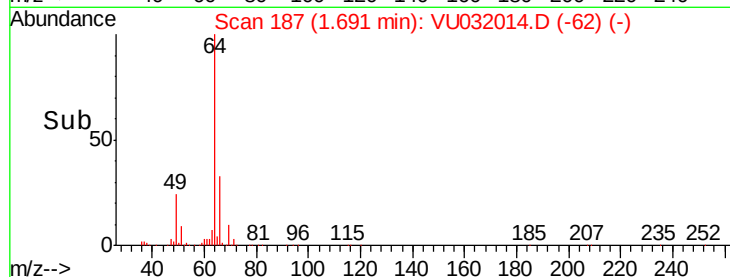
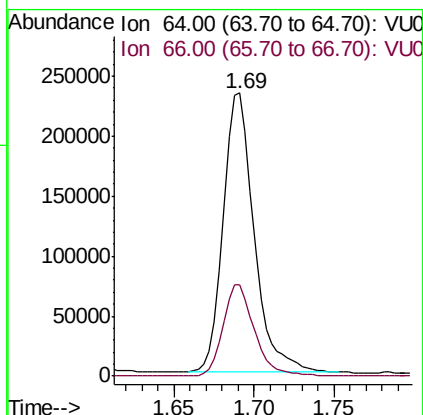
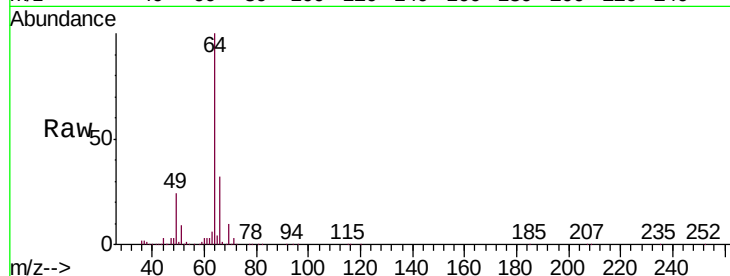




#8
Chloroethane
Concen: 43.934 ug/L
RT: 1.69 min Scan# 187
Delta R.T. 0.00 min
Lab File: VU032014.D
Acq: 14 May 2019 23:43

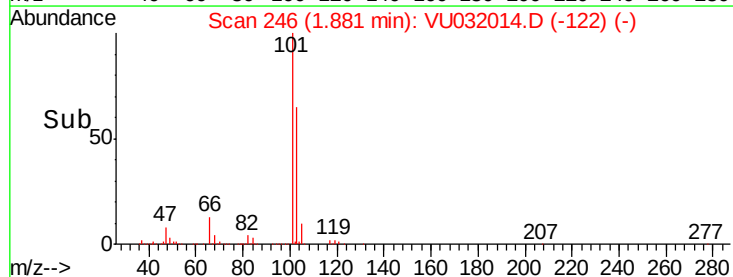
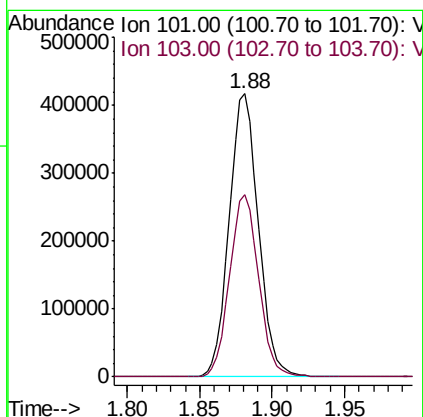
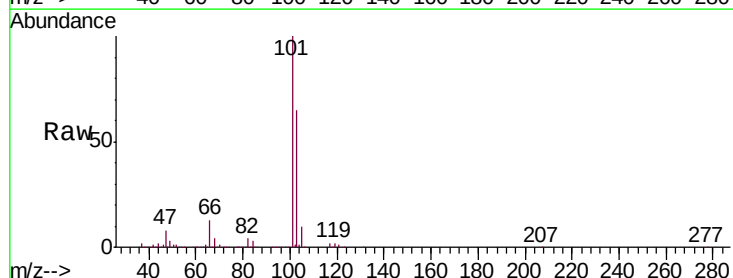
Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

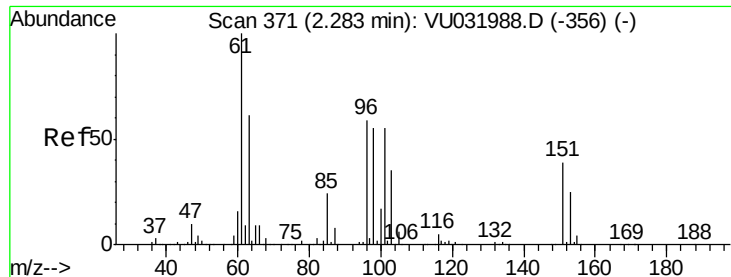
Tgt Ion: 64 Resp: 308874
Ion Ratio Lower Upper
64 100
66 32.1 22.7 42.1



#9
Trichlorofluoromethane
Concen: 43.290 ug/L
RT: 1.88 min Scan# 246
Delta R.T. -0.00 min
Lab File: VU032014.D
Acq: 14 May 2019 23:43

Tgt Ion: 101 Resp: 582156
Ion Ratio Lower Upper
101 100
103 64.0 52.2 78.2





#10

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

Concen: 43.033 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

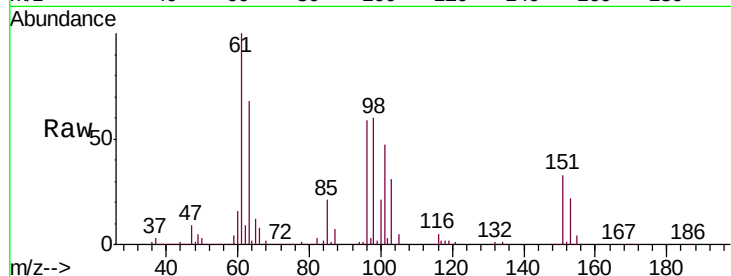
Tgt Ion: 101 Resp: 353271

Ion Ratio Lower Upper

101 100

85 43.4 34.1 51.1

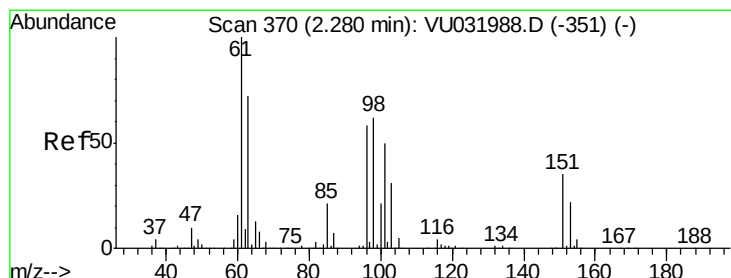
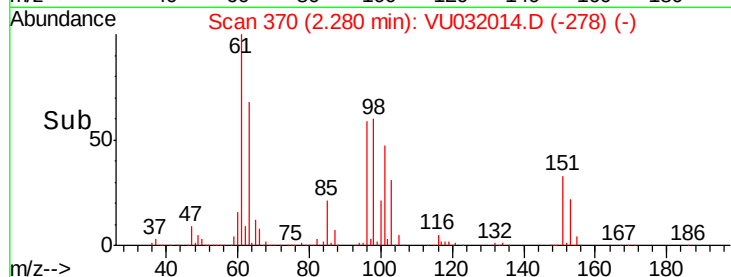
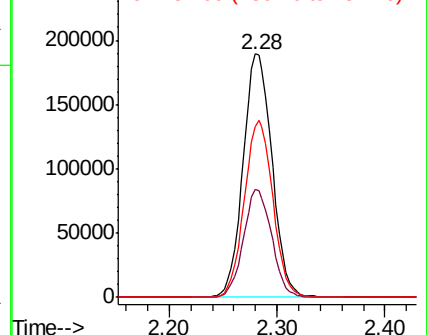
151 71.7 55.8 83.8



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: 45.168 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

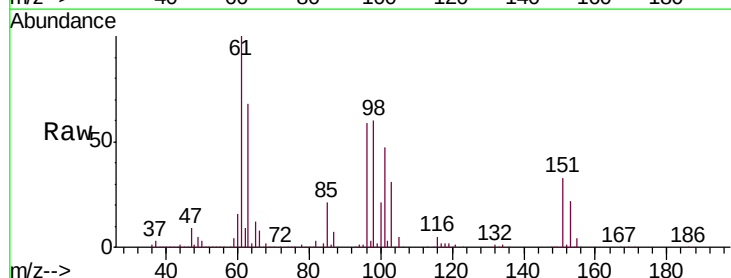
Tgt Ion: 96 Resp: 367988

Ion Ratio Lower Upper

96 100

61 168.1 120.9 224.5

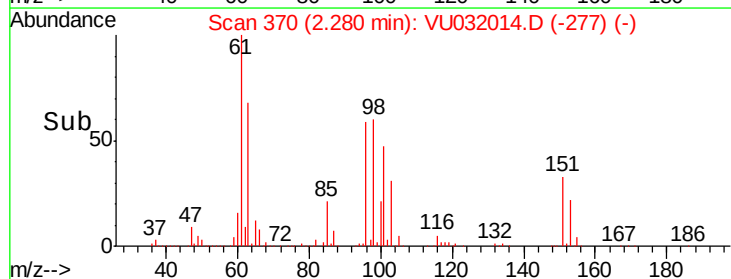
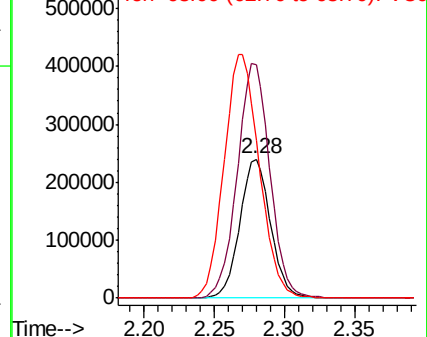
63 114.1 84.4 156.8

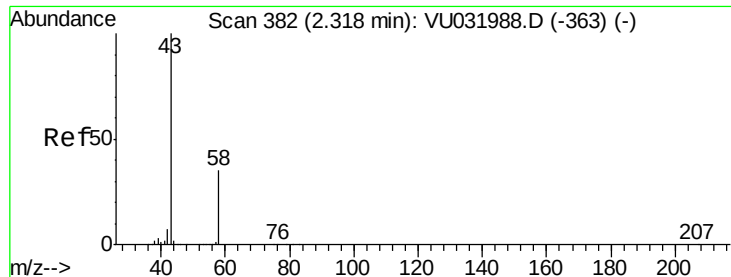


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 66.037 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

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Acq: 14 May 2019 23:43

Instrument :

MSVOA_U

ClientSampleId :

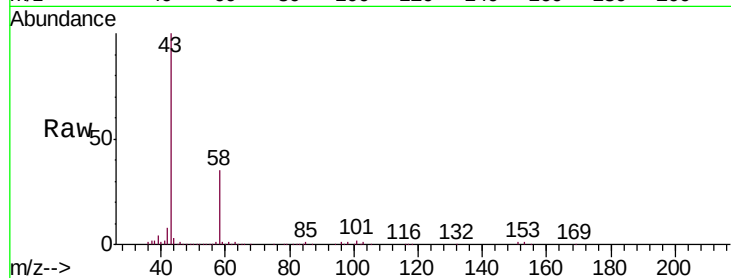
VSTD05045

Tgt Ion: 43 Resp: 460196

Ion Ratio Lower Upper

43 100

58 34.9 0.0 68.2



Abundance Ion 43.00 (42.70 to 43.70): VU031988.D (-363) (-)

Ion 58.00 (57.70 to 58.70): VU031988.D (-363) (-)

2.32

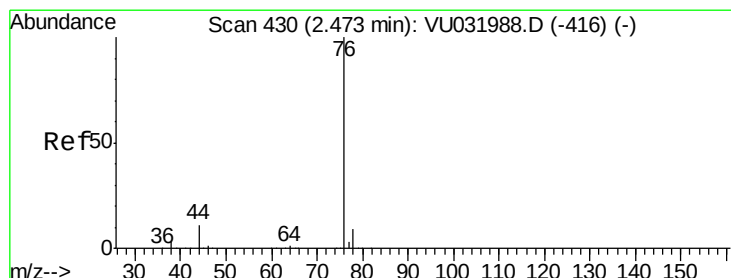
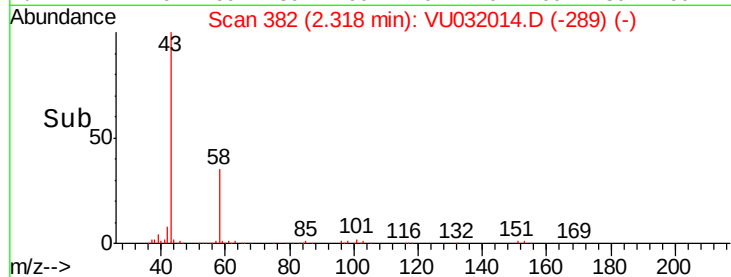
300000

200000

100000

0

Time--> 2.20 2.30 2.40



#14

Carbon disulfide

Concen: 43.435 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU032014.D

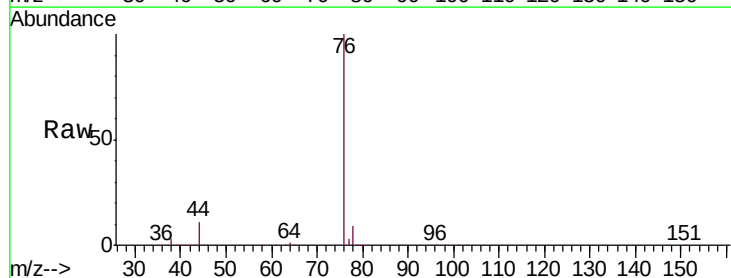
Acq: 14 May 2019 23:43

Tgt Ion: 76 Resp: 1143069

Ion Ratio Lower Upper

76 100

78 8.7 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU031988.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU031988.D (-416) (-)

2.47

800000

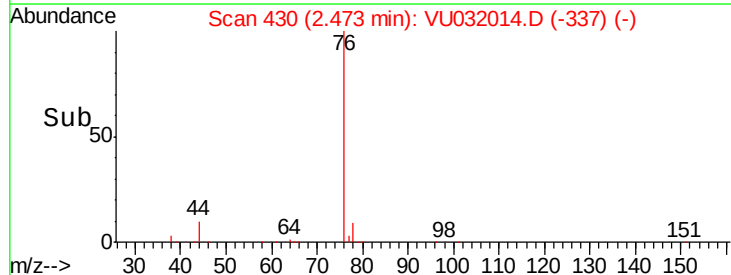
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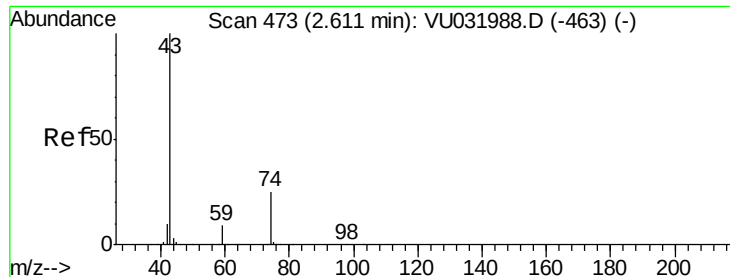
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200000

0

Time--> 2.40 2.45 2.50 2.55 2.60

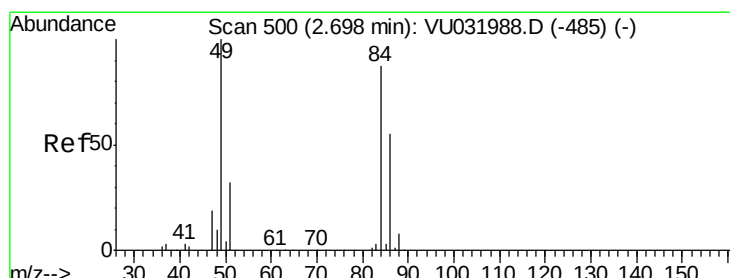
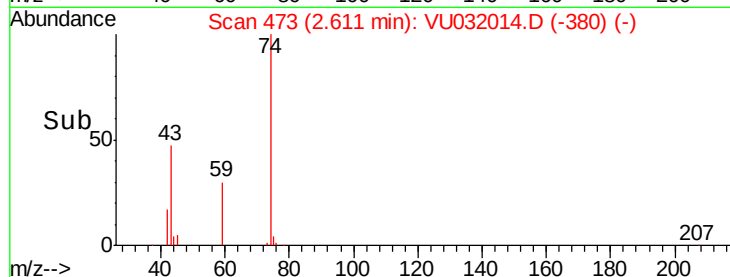
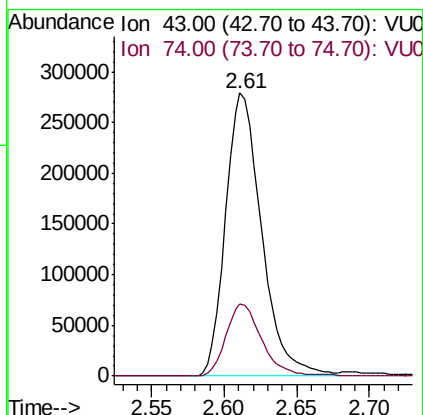
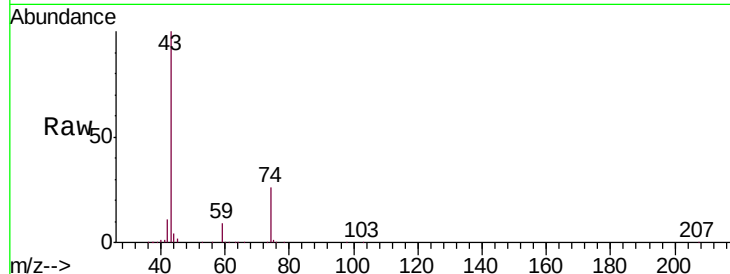




#15
Methyl Acetate
Concen: 45.489 ug/L
RT: 2.61 min Scan# 473
Delta R.T. -0.00 min
Lab File: VU032014.D
Acq: 14 May 2019 23:43

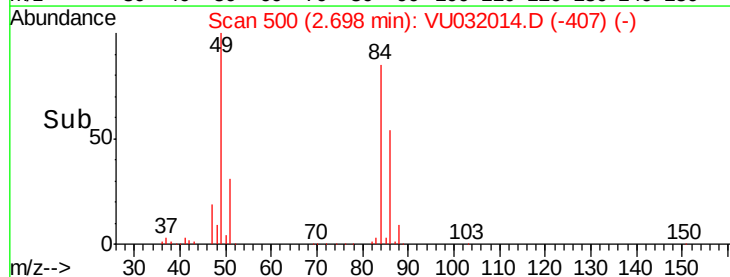
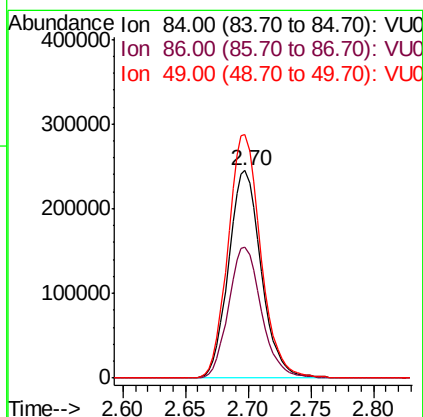
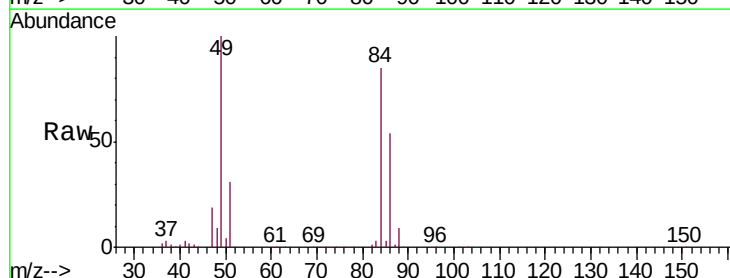
Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

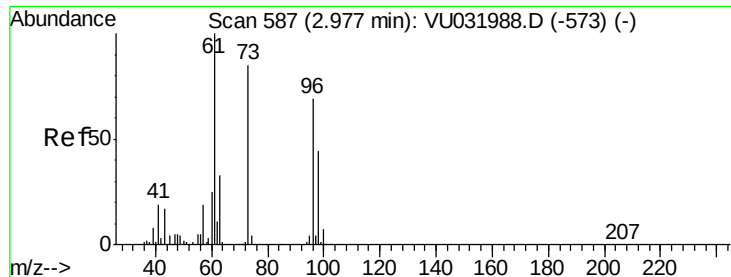
Tgt Ion: 43 Resp: 481334
Ion Ratio Lower Upper
43 100
74 25.4 0.0 0.0#



#16
Methylene chloride
Concen: 44.678 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU032014.D
Acq: 14 May 2019 23:43

Tgt Ion: 84 Resp: 443907
Ion Ratio Lower Upper
84 100
86 63.2 45.8 85.0
49 117.4 83.3 154.7





#17

trans-1,2-Dichloroethene

Concen: 46.448 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

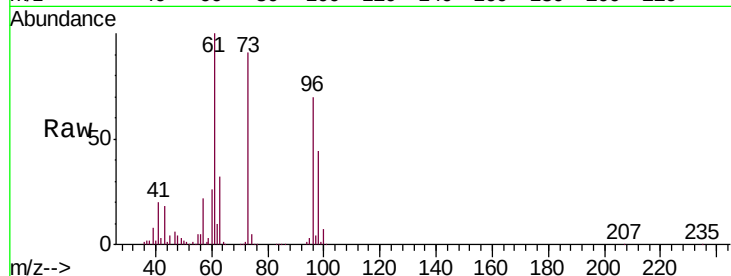
Tgt Ion: 96 Resp: 393669

Ion Ratio Lower Upper

96 100

61 142.0 103.2 191.6

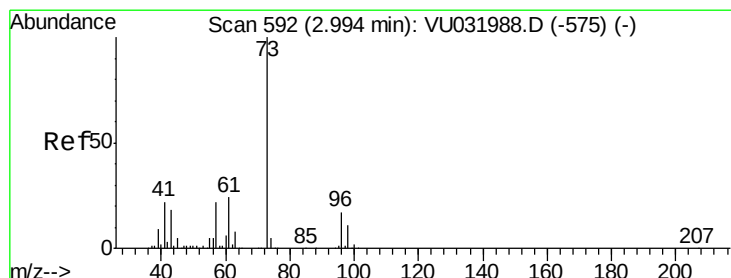
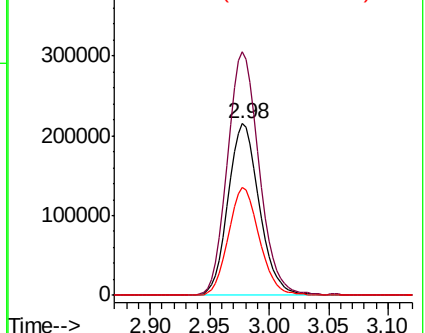
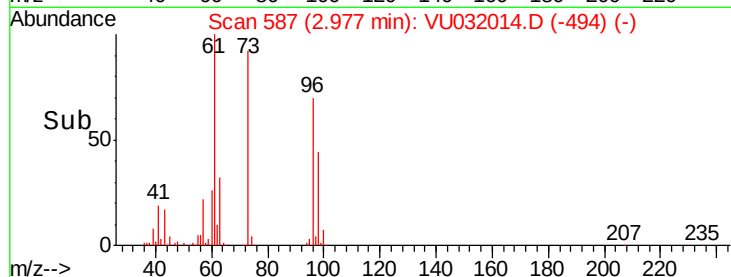
98 63.1 45.7 84.9



Abundance Ion 96.00 (95.70 to 96.70): VU032014.D (-494) (-)

Ion 61.00 (60.70 to 61.70): VU032014.D (-494) (-)

Ion 98.00 (97.70 to 98.70): VU032014.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 48.490 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

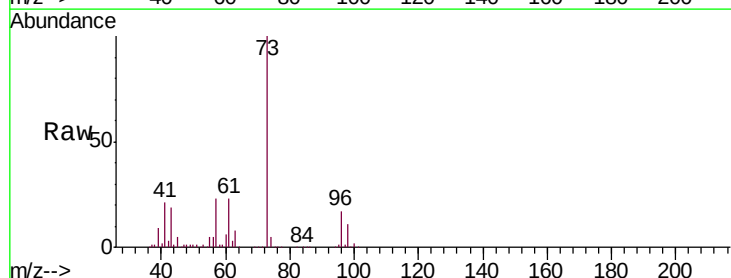
Tgt Ion: 73 Resp: 1262843

Ion Ratio Lower Upper

73 100

43 18.4 15.1 22.7

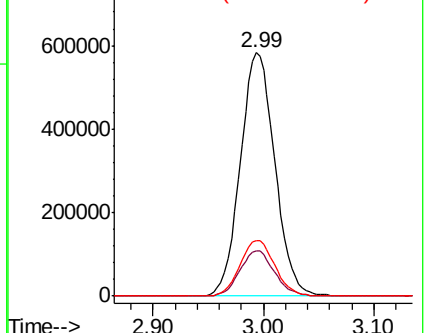
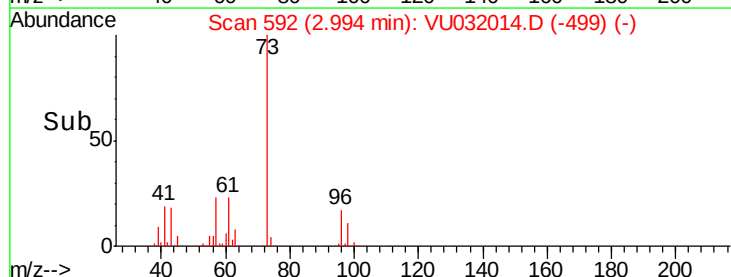
57 23.1 18.2 27.4

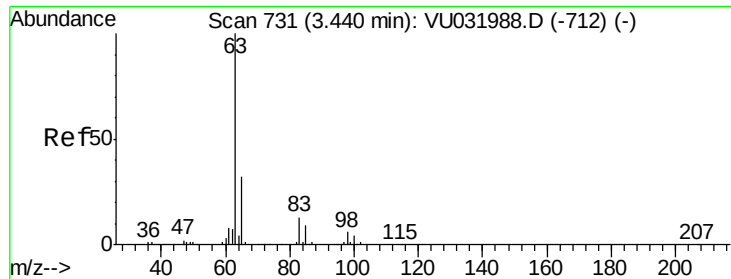


Abundance Ion 73.00 (72.70 to 73.70): VU032014.D (-499) (-)

Ion 43.00 (42.70 to 43.70): VU032014.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU032014.D (-499) (-)

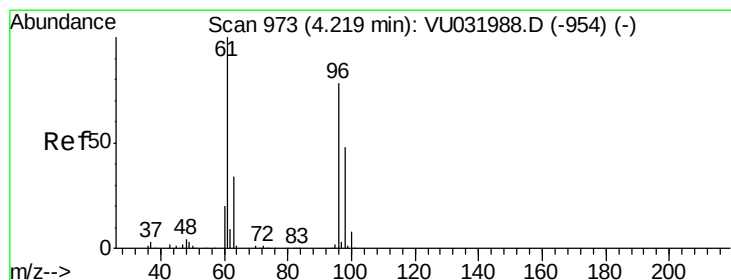
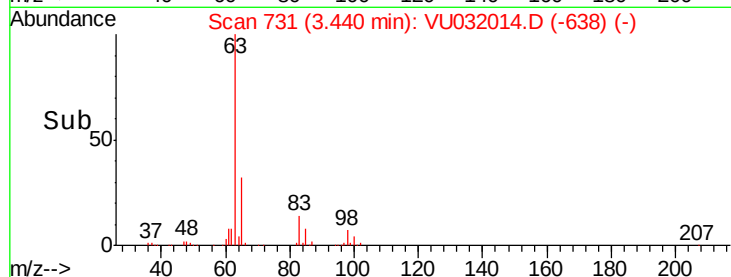
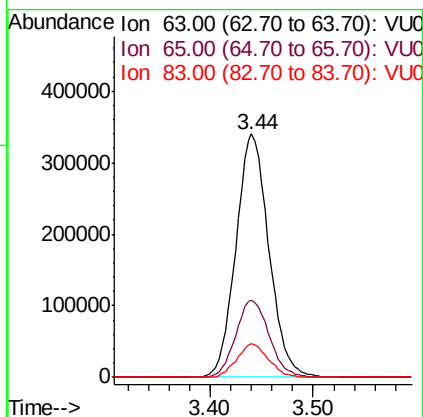
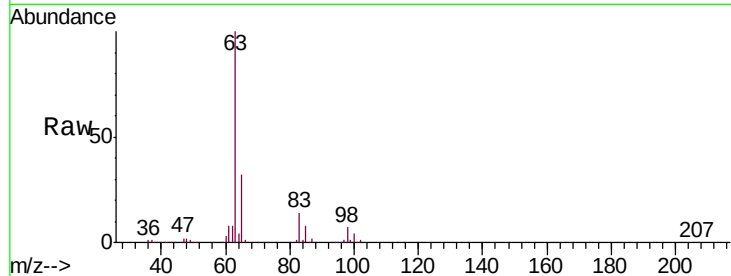




#19
 1,1-Dichloroethane
 Concen: 45.384 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU032014.D
 Acq: 14 May 2019 23:43

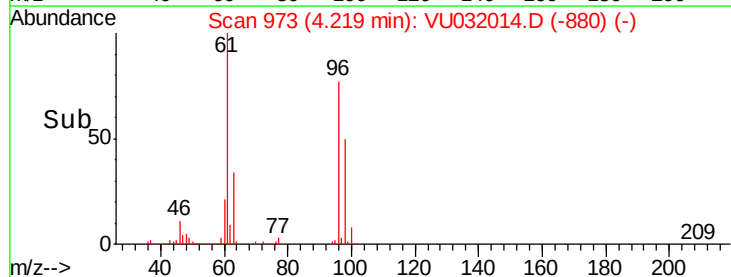
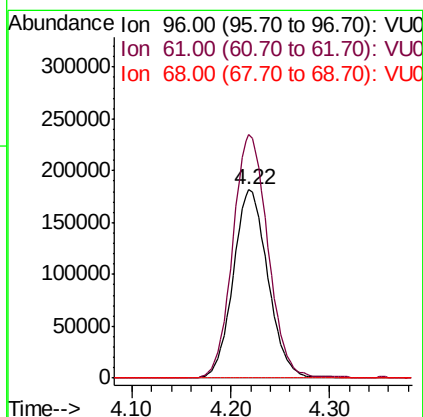
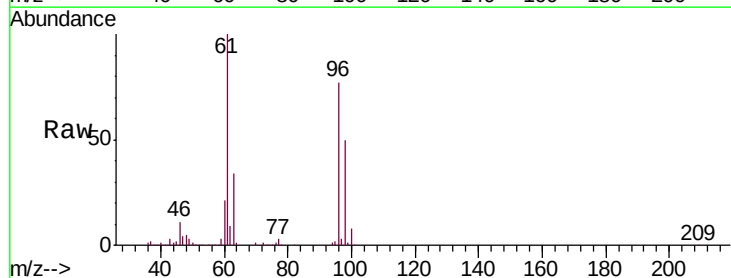
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

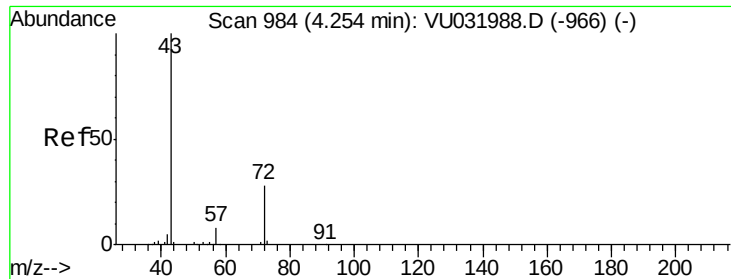
Tgt Ion: 63 Resp: 755317
 Ion Ratio Lower Upper
 63 100
 65 31.5 22.2 41.2
 83 13.8 9.2 17.2



#20
 cis-1,2-Dichloroethene
 Concen: 47.306 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU032014.D
 Acq: 14 May 2019 23:43

Tgt Ion: 96 Resp: 443482
 Ion Ratio Lower Upper
 96 100
 61 129.4 93.0 172.8
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 88.279 ug/L

RT: 4.25 min Scan# 984

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

Instrument :

MSVOA_U

ClientSampleId :

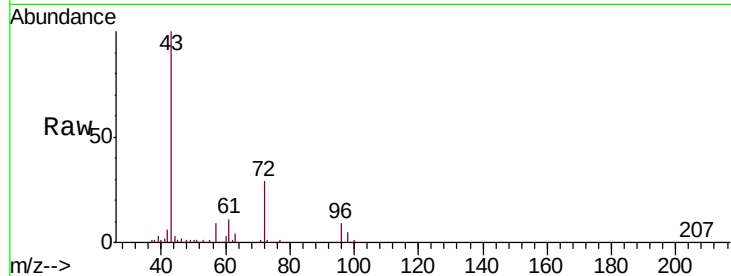
VSTD05045

Tgt Ion: 43 Resp: 709585

Ion Ratio Lower Upper

43 100

72 28.2 13.9 41.7



Abundance Ion 43.00 (42.70 to 43.70): VU031988.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU031988.D (-966) (-)

4.25

300000

250000

200000

150000

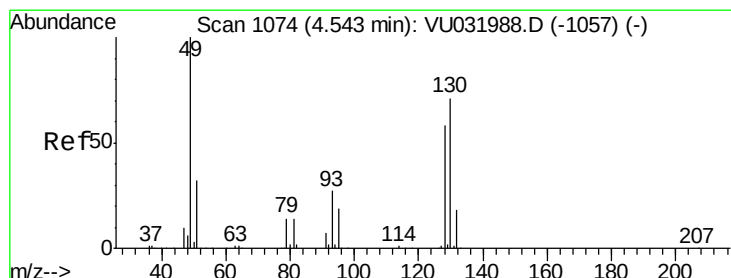
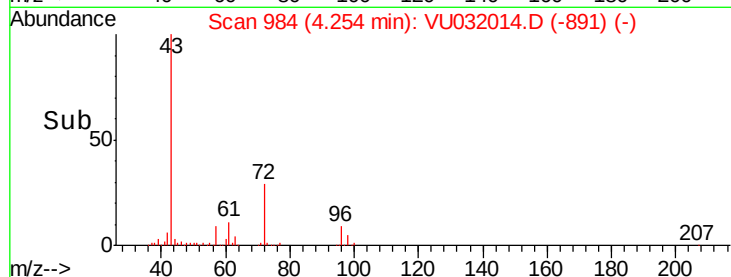
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 46.127 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

Tgt Ion: 128 Resp: 211940

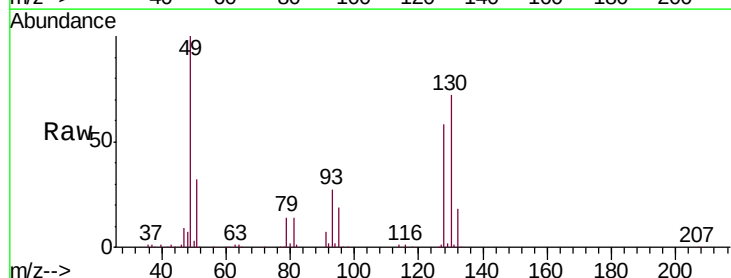
Ion Ratio Lower Upper

128 100

49 171.6 121.7 226.1

130 123.8 89.5 166.1

51 55.6 44.1 66.1



Abundance Ion 128.00 (127.70 to 128.70): VU031988.D (-1057) (-)

Ion 49.00 (48.70 to 49.70): VU031988.D (-1057) (-)

Ion 130.00 (129.70 to 130.70): VU031988.D (-1057) (-)

Ion 51.00 (50.70 to 51.70): VU031988.D (-1057) (-)

200000

150000

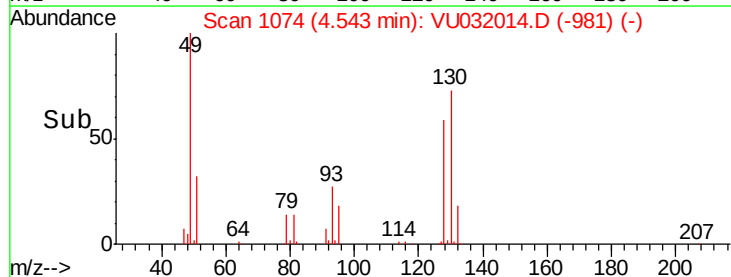
100000

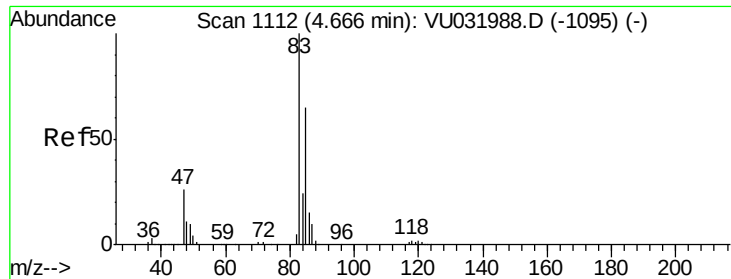
50000

0

4.50 4.60

Time-->

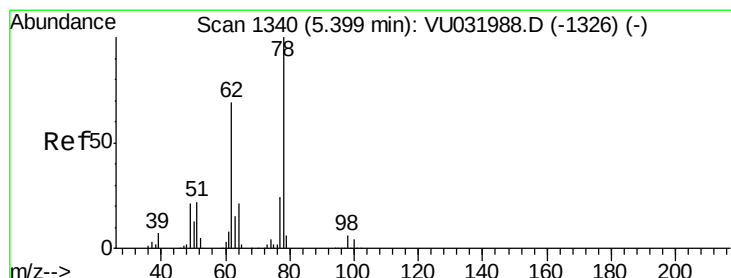
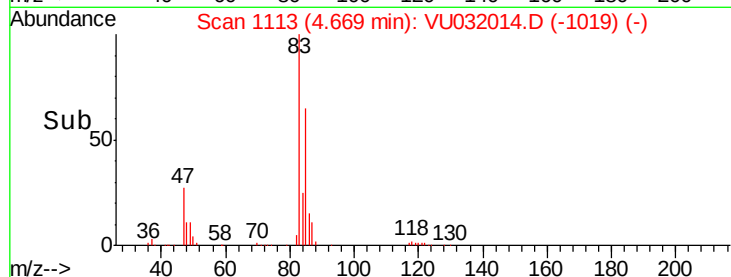
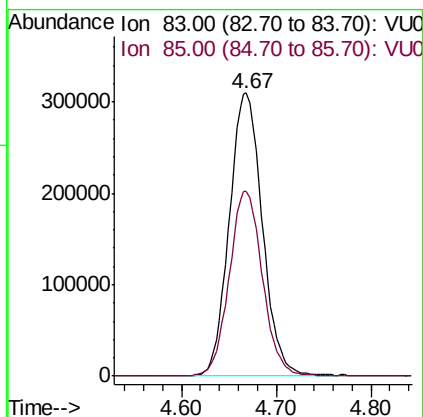
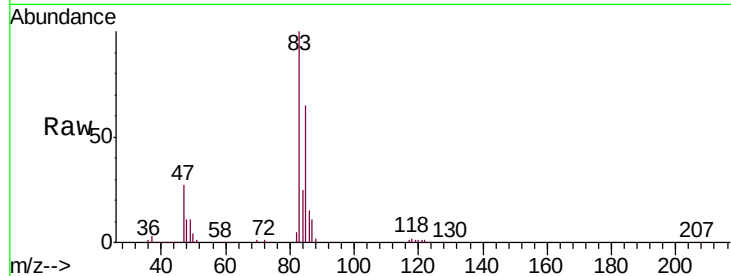




#25
Chloroform
Concen: 45.808 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU032014.D
Acq: 14 May 2019 23:43

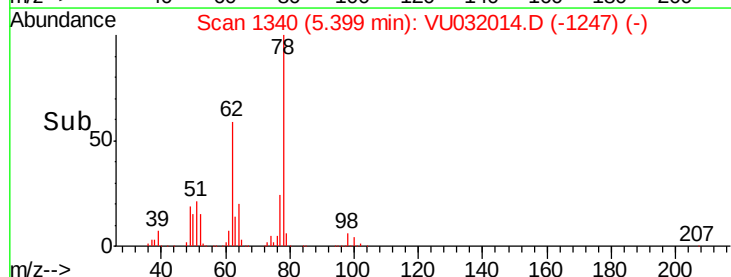
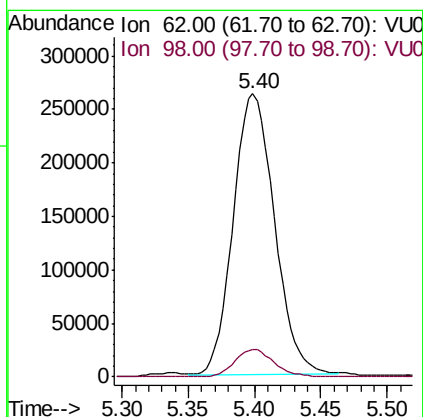
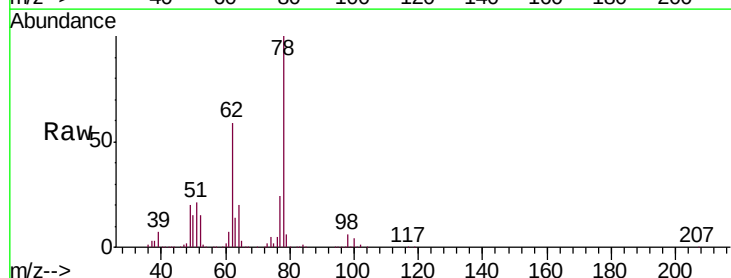
Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

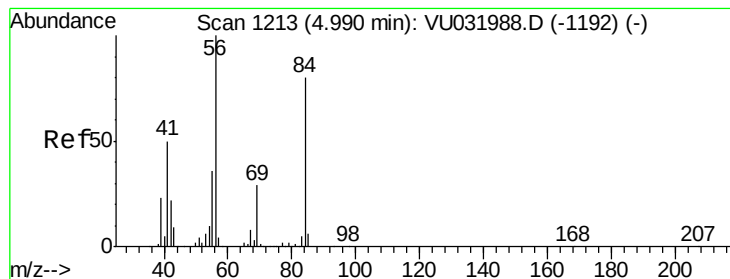
Tgt Ion: 83 Resp: 753445
Ion Ratio Lower Upper
83 100
85 65.2 44.2 82.2



#27
1,2-Dichloroethane
Concen: 44.964 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU032014.D
Acq: 14 May 2019 23:43

Tgt Ion: 62 Resp: 572420
Ion Ratio Lower Upper
62 100
98 9.6 7.2 10.8





#29

Cyclohexane

Concen: 51.211 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

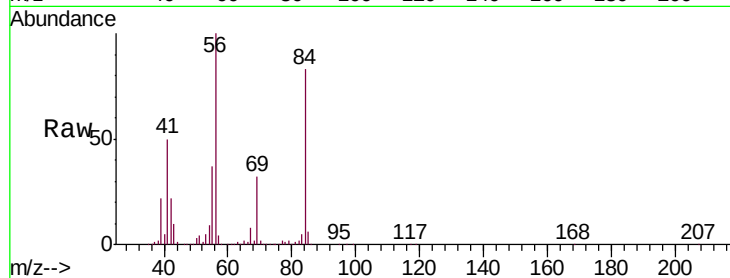
Tgt Ion: 56 Resp: 685936

Ion Ratio Lower Upper

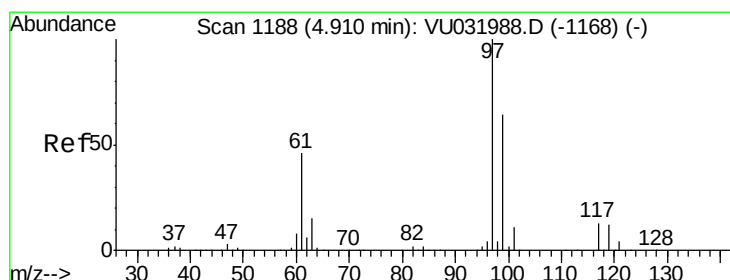
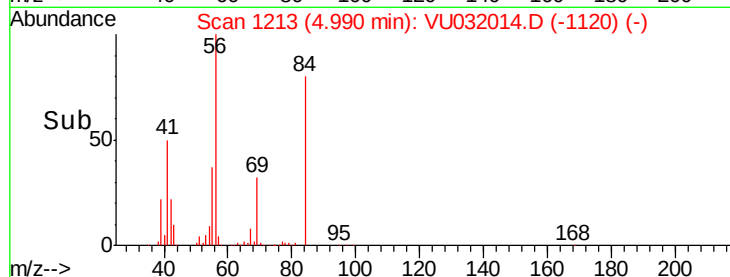
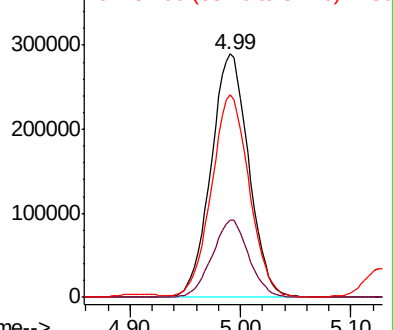
56 100

69 30.8 24.8 37.2

84 82.7 65.5 98.3



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



#30

1,1,1-Trichloroethane

Concen: 46.896 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

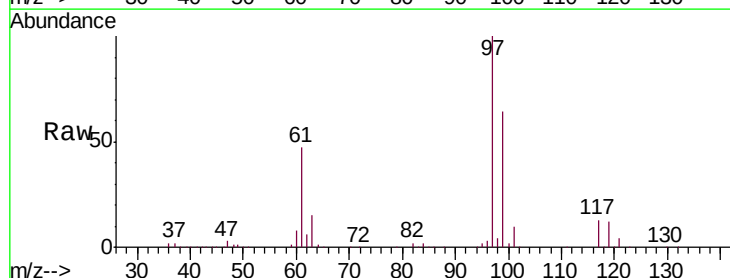
Tgt Ion: 97 Resp: 594198

Ion Ratio Lower Upper

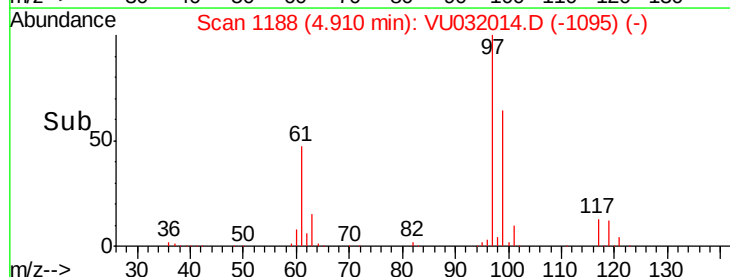
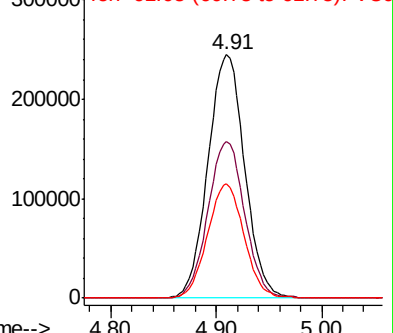
97 100

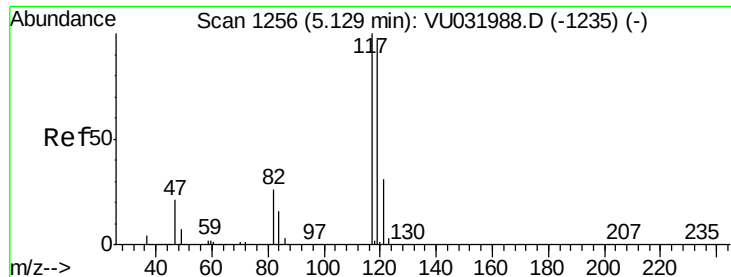
99 64.2 51.8 77.8

61 46.4 37.5 56.3



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

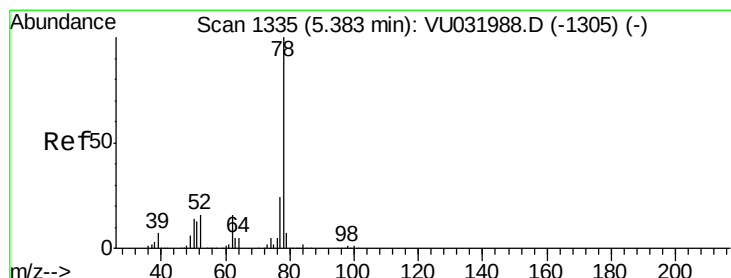
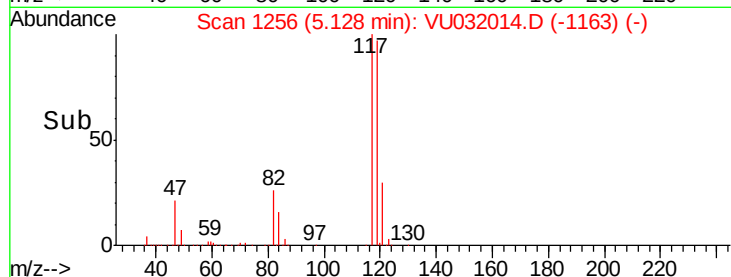
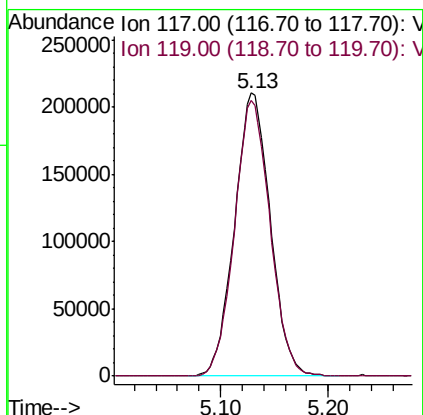
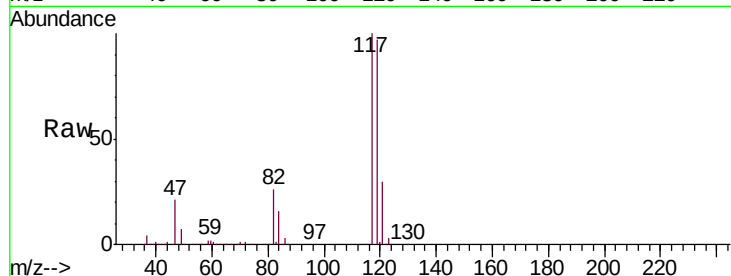




#31
Carbon tetrachloride
Concen: 45.911 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. -0.00 min
Lab File: VU032014.D
Acq: 14 May 2019 23:43

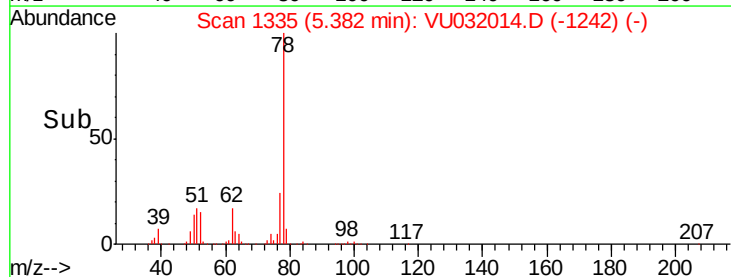
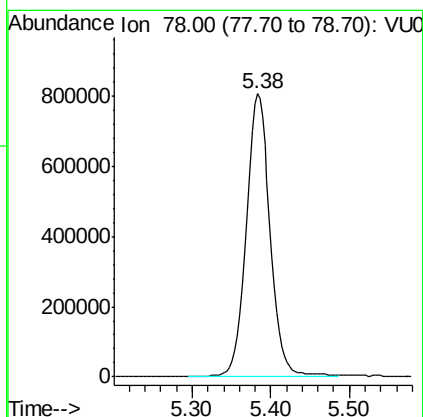
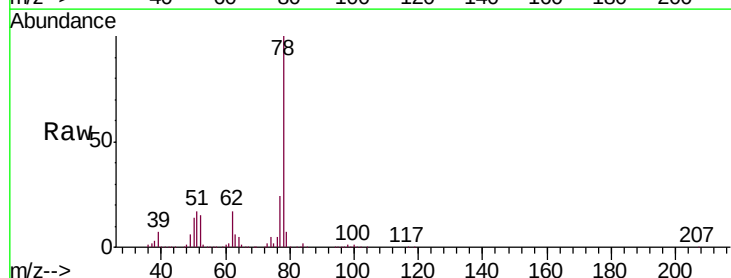
Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

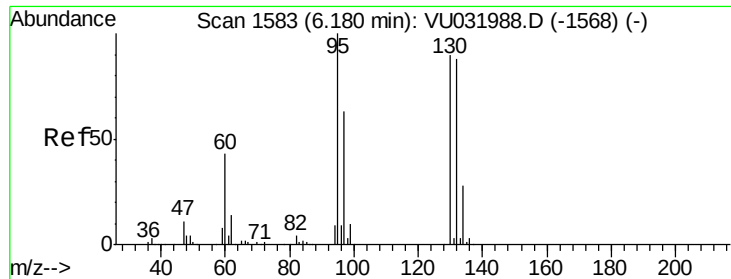
Tgt Ion:117 Resp: 485306
Ion Ratio Lower Upper
117 100
119 97.1 77.2 115.8



#33
Benzene
Concen: 48.407 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU032014.D
Acq: 14 May 2019 23:43

Tgt Ion: 78 Resp: 1732670

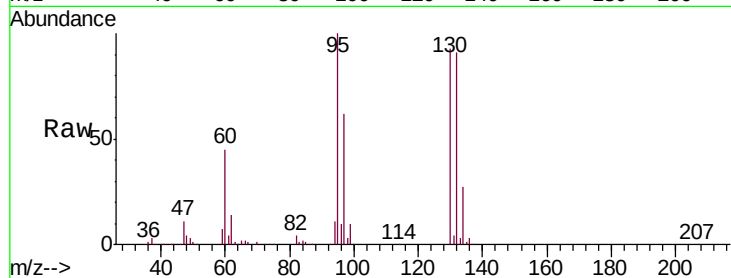




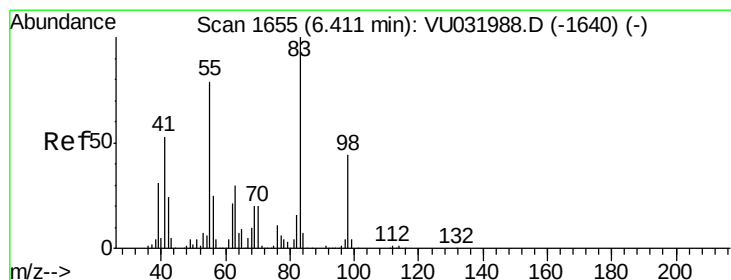
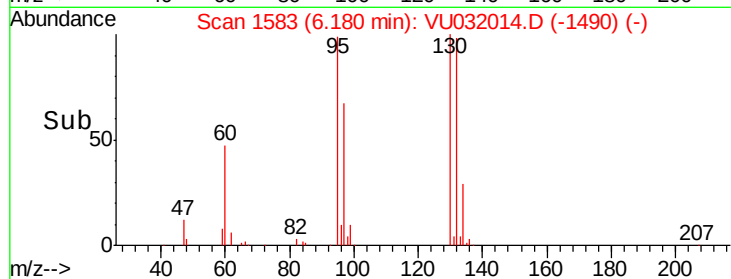
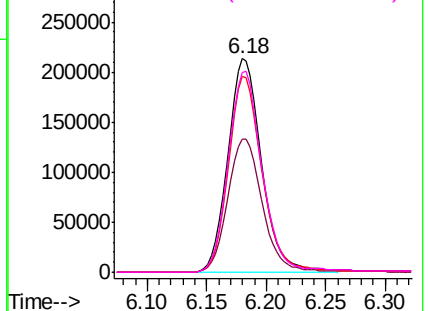
#34
 Trichloroethene
 Concen: 47.278 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VU032014.D
 Acq: 14 May 2019 23:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

Tgt Ion:	95	Resp:	419079
Ion	Ratio	Lower	Upper
95	100		
97	62.3	44.9	83.3
132	91.5	63.5	117.9
130	93.3	66.2	123.0

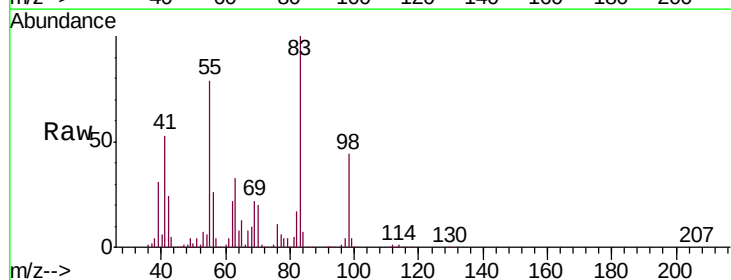


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

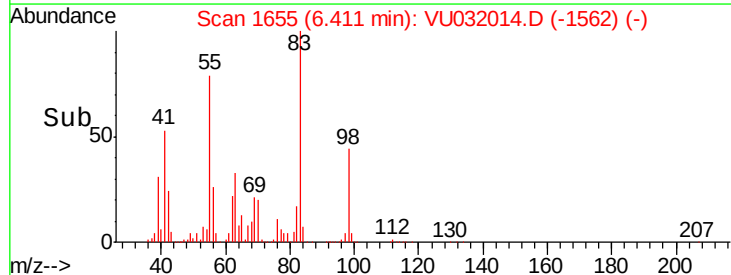
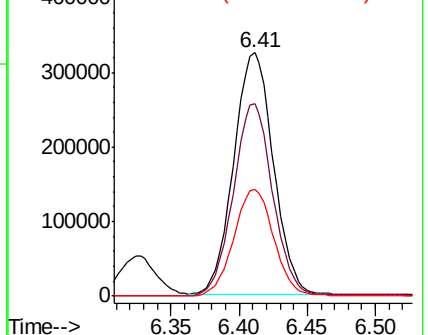


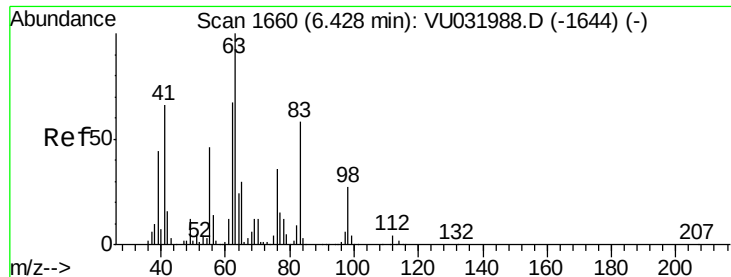
#35
 Methylcyclohexane
 Concen: 48.144 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU032014.D
 Acq: 14 May 2019 23:43

Tgt Ion:	83	Resp:	654392
Ion	Ratio	Lower	Upper
83	100		
55	79.1	64.0	96.0
98	44.5	35.6	53.4



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

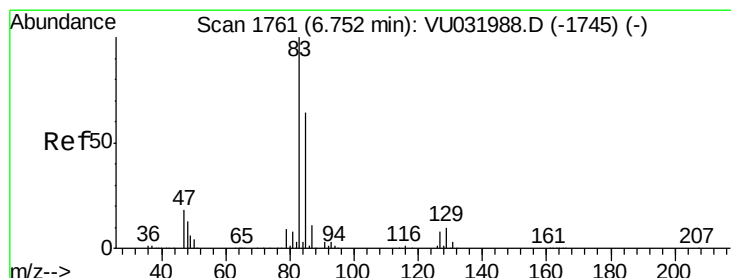
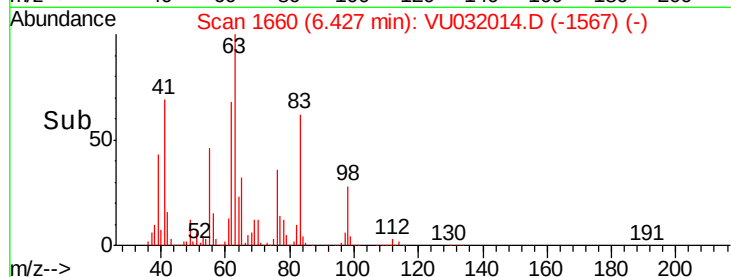
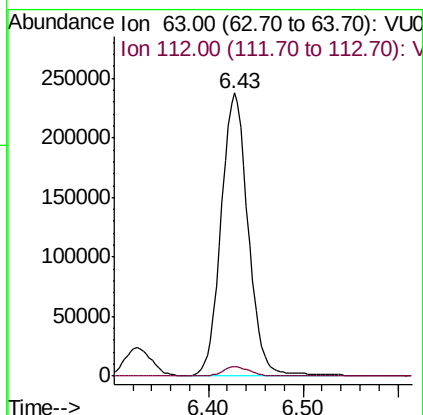
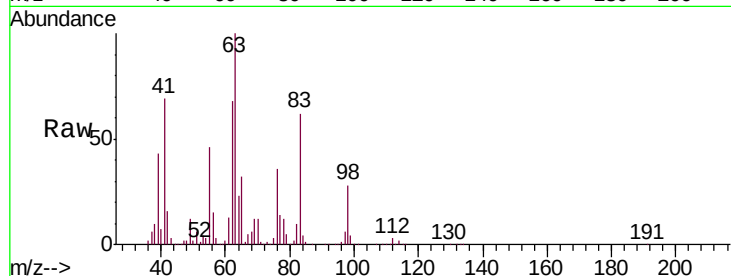




#37
 1,2-Dichloropropane
 Concen: 48.878 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU032014.D
 Acq: 14 May 2019 23:43

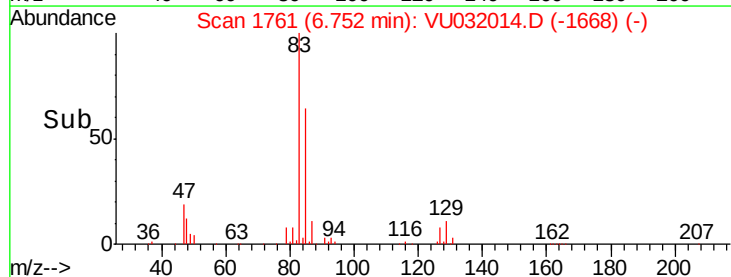
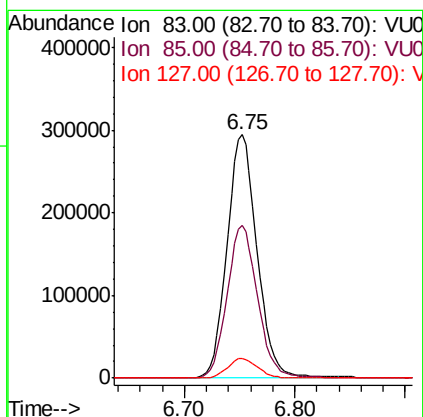
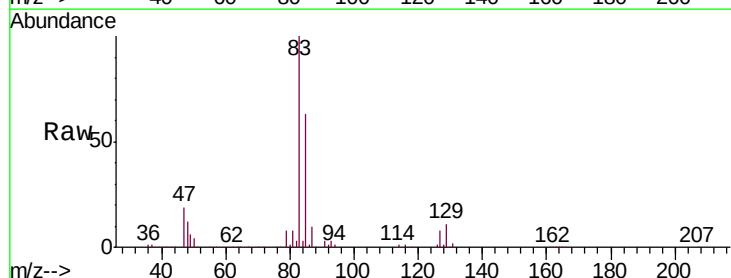
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

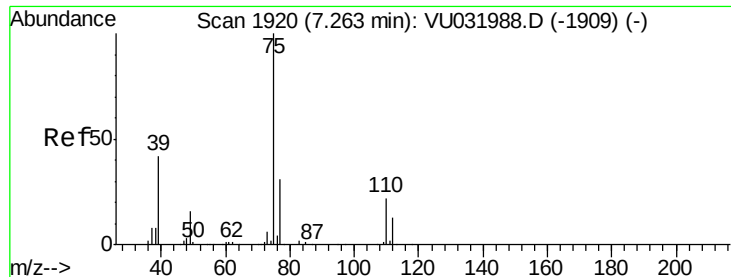
Tgt Ion: 63 Resp: 469895
 Ion Ratio Lower Upper
 63 100
 112 3.4 3.0 4.4



#38
 Bromodichloromethane
 Concen: 47.115 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU032014.D
 Acq: 14 May 2019 23:43

Tgt Ion: 83 Resp: 553495
 Ion Ratio Lower Upper
 83 100
 85 62.6 44.7 82.9
 127 8.1 6.5 9.7



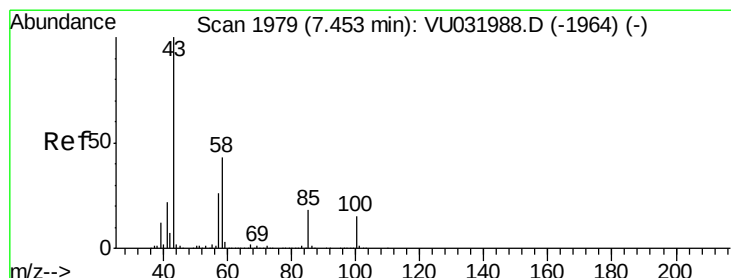
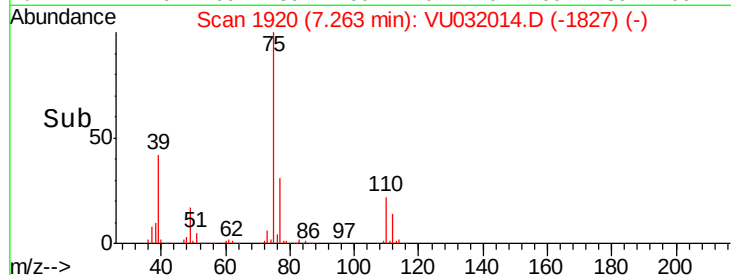
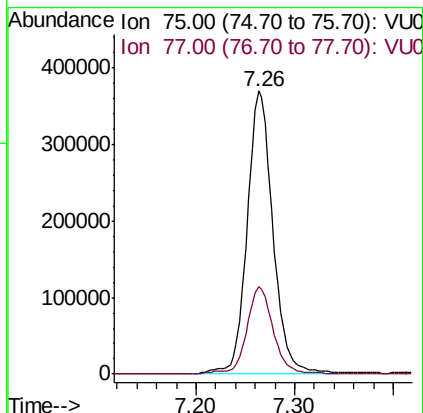
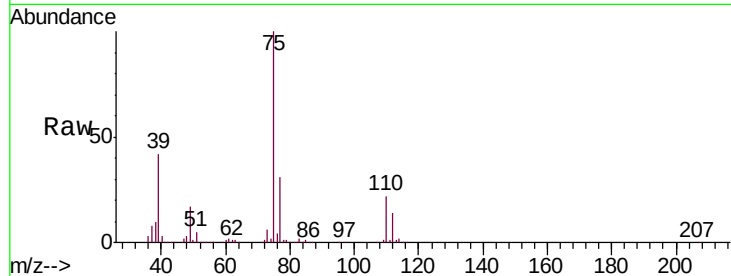


#39

cis-1,3-Dichloropropene
 Concen: 48.935 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU032014.D
 Acq: 14 May 2019 23:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

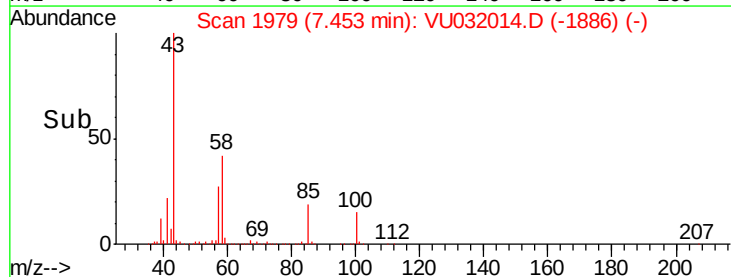
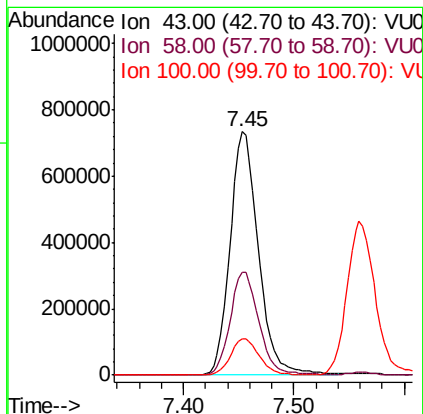
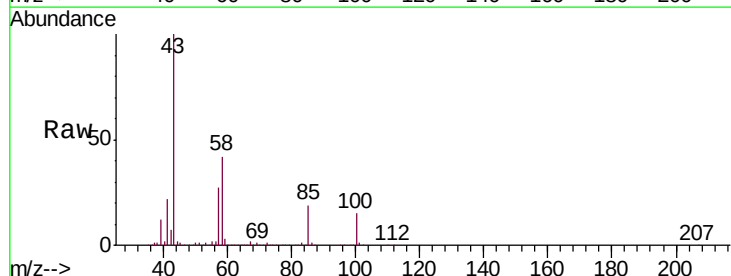
Tgt Ion: 75 Resp: 667927
 Ion Ratio Lower Upper
 75 100
 77 30.7 21.8 40.6

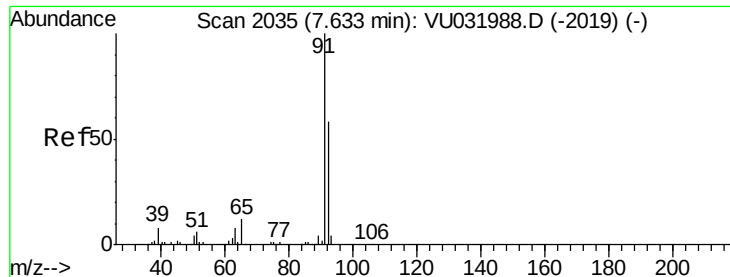


#40

4-Methyl-2-pentanone
 Concen: 100.507 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VU032014.D
 Acq: 14 May 2019 23:43

Tgt Ion: 43 Resp: 1311006
 Ion Ratio Lower Upper
 43 100
 58 42.8 33.6 50.4
 100 15.2 11.8 17.8





#42

Toluene

Concen: 49.952 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

Instrument :

MSVOA_U

ClientSampleId :

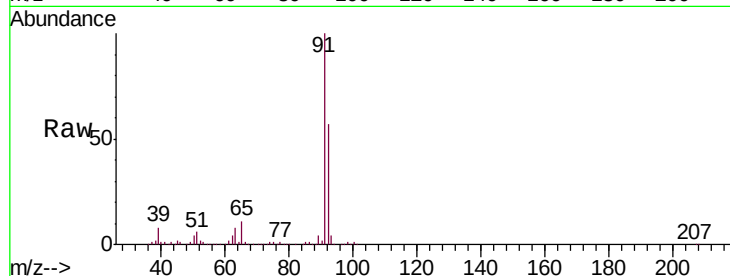
VSTD05045

Tgt Ion: 91 Resp: 1834753

Ion Ratio Lower Upper

91 100

92 56.9 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU032014.D (-2017) (-)

Ion 92.00 (91.70 to 92.70): VU032014.D (-2017) (-)

7.63

1000000

800000

600000

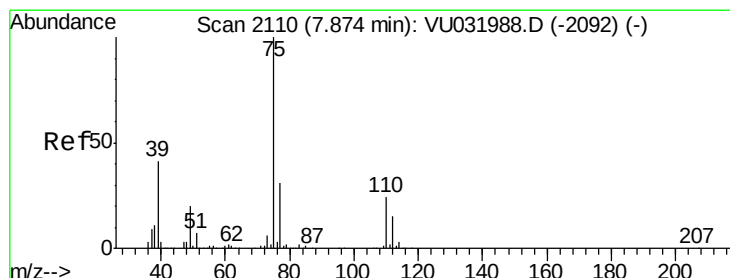
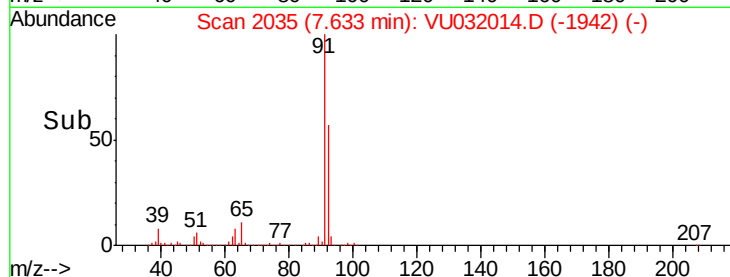
400000

200000

0

Time-->

7.50 7.60 7.70 7.80



#44

trans-1,3-Dichloropropene

Concen: 48.115 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU032014.D

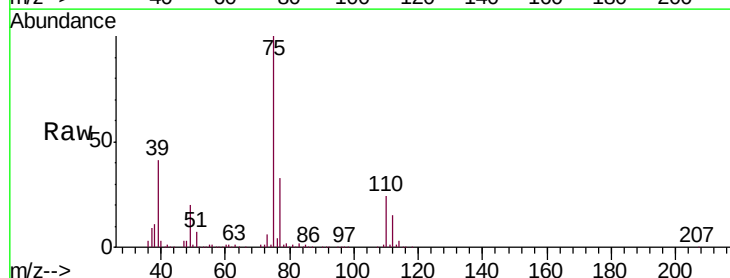
Acq: 14 May 2019 23:43

Tgt Ion: 75 Resp: 576748

Ion Ratio Lower Upper

75 100

77 32.8 22.5 41.7



Abundance Ion 75.00 (74.70 to 75.70): VU032014.D (-2017) (-)

Ion 77.00 (76.70 to 77.70): VU032014.D (-2017) (-)

7.87

300000

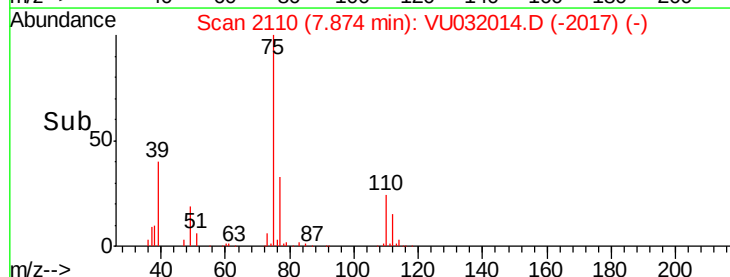
200000

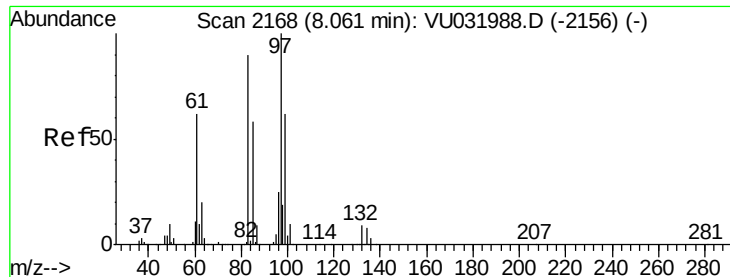
100000

0

Time-->

7.80 7.90 8.00

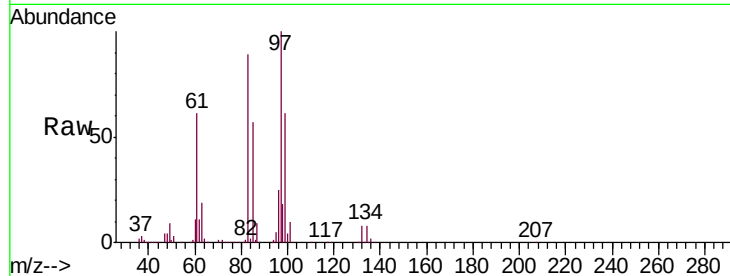




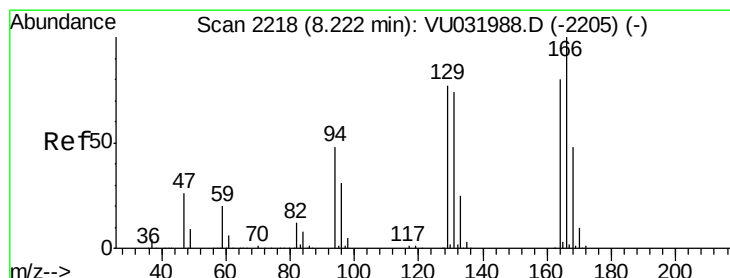
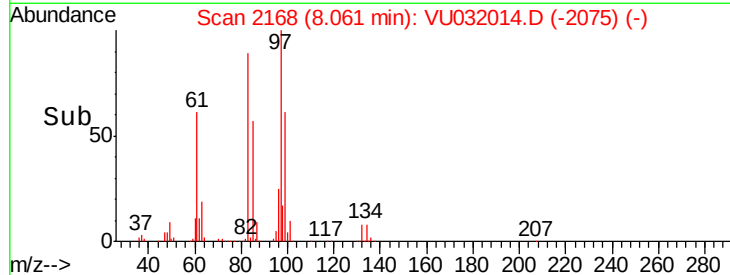
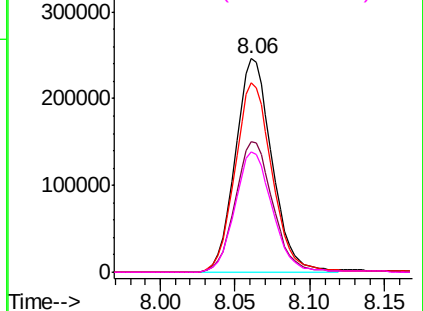
#45
 1,1,2-Trichloroethane
 Concen: 47.644 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.00 min
 Lab File: VU032014.D
 Acq: 14 May 2019 23:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

Tgt Ion:	97	Resp:	419992
Ion	Ratio	Lower	Upper
97	100		
99	61.1	44.4	82.4
83	88.6	63.8	118.4
85	56.6	40.7	75.5

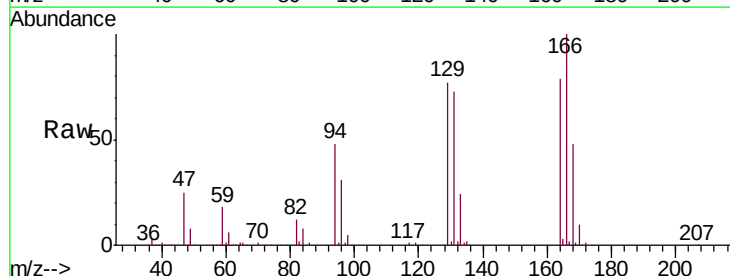


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

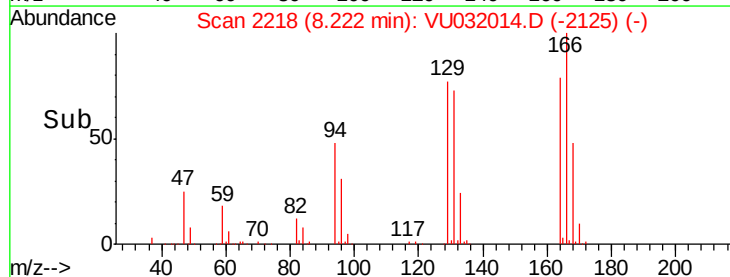
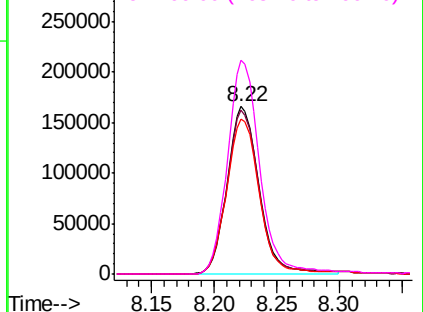


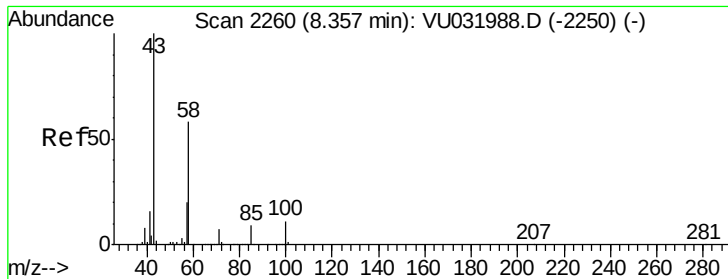
#46
 Tetrachloroethene
 Concen: 47.007 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU032014.D
 Acq: 14 May 2019 23:43

Tgt Ion:	164	Resp:	294190
Ion	Ratio	Lower	Upper
164	100		
129	97.5	70.9	131.7
131	92.4	67.4	125.2
166	127.4	90.2	167.4



Abundance Ion 164.00 (163.70 to 164.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V
 Ion 166.00 (165.70 to 166.70): V

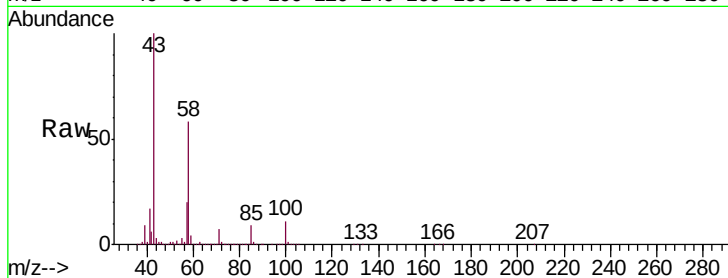




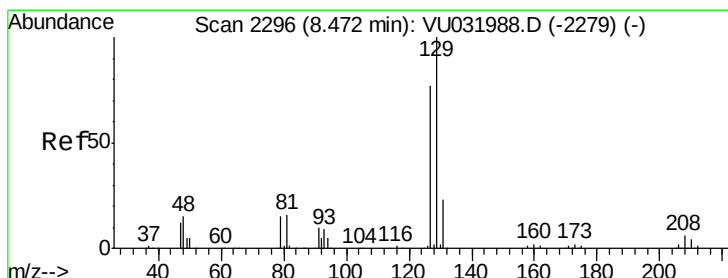
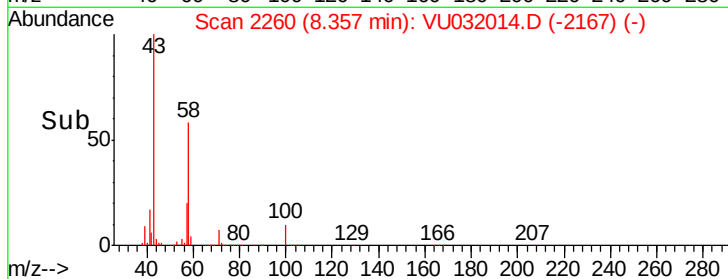
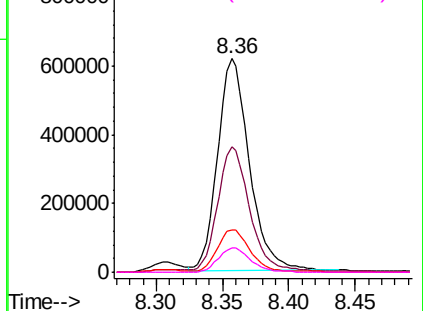
#48
2-Hexanone
Concen: 97.165 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU032014.D
Acq: 14 May 2019 23:43

Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

Tgt Ion: 43 Resp: 1028670
Ion Ratio Lower Upper
43 100
58 59.4 47.8 71.6
57 20.8 16.0 24.0
100 11.6 9.6 14.4

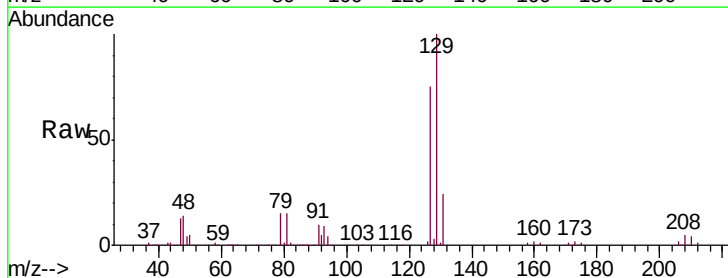


Abundance Ion 43.00 (42.70 to 43.70): VU031988.D (-2250) (-)
Ion 58.00 (57.70 to 58.70): VU031988.D (-2250) (-)
Ion 57.00 (56.70 to 57.70): VU031988.D (-2250) (-)
Ion 100.00 (99.70 to 100.70): VU031988.D (-2250) (-)

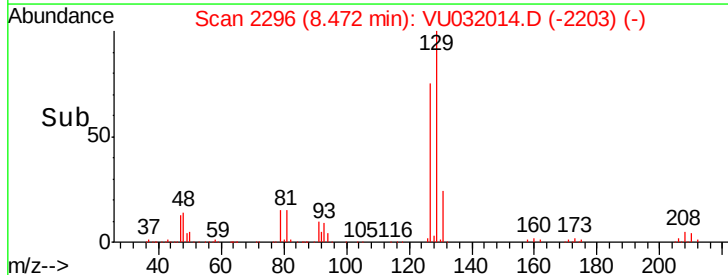
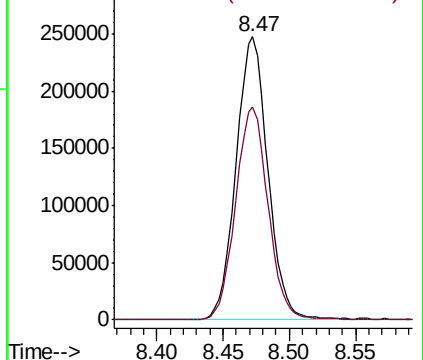


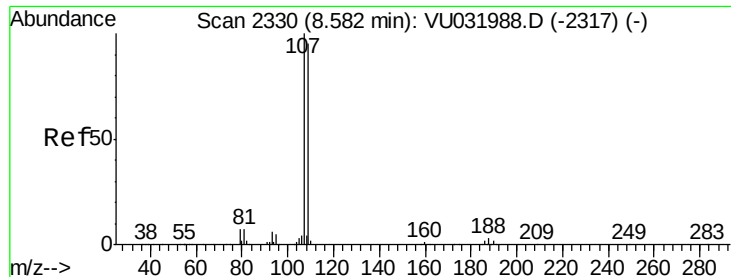
#49
Dibromochloromethane
Concen: 46.736 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU032014.D
Acq: 14 May 2019 23:43

Tgt Ion: 129 Resp: 413257
Ion Ratio Lower Upper
129 100
127 75.2 53.8 99.8



Abundance Ion 129.00 (128.70 to 129.70): VU031988.D (-2279) (-)
Ion 127.00 (126.70 to 127.70): VU031988.D (-2279) (-)

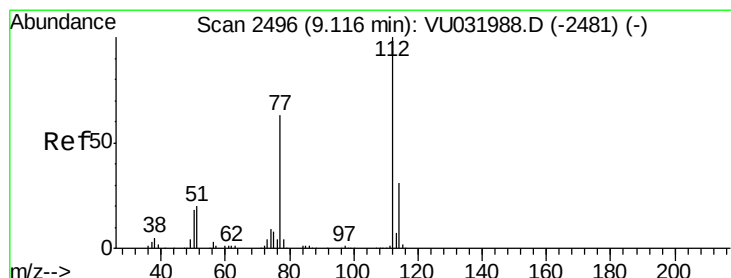
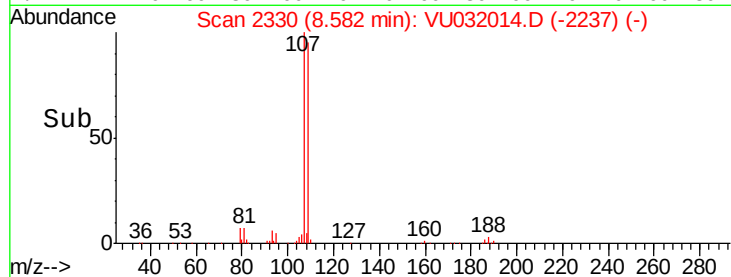
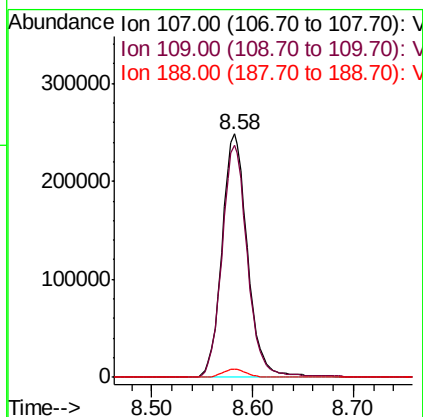
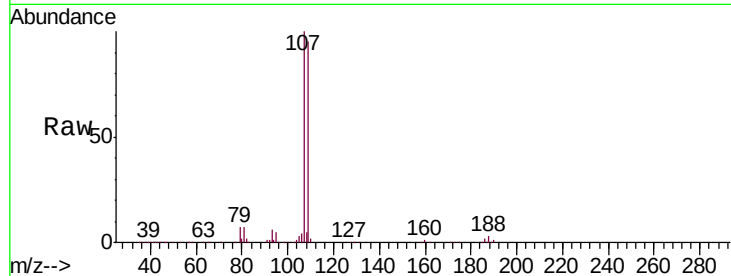




#50
1,2-Dibromoethane
Concen: 47.063 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU032014.D
Acq: 14 May 2019 23:43

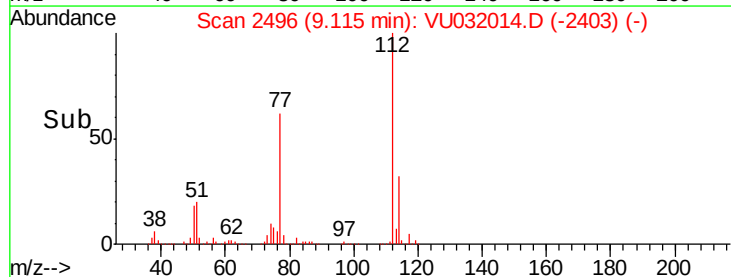
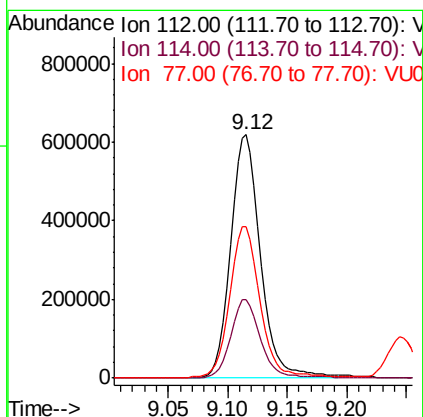
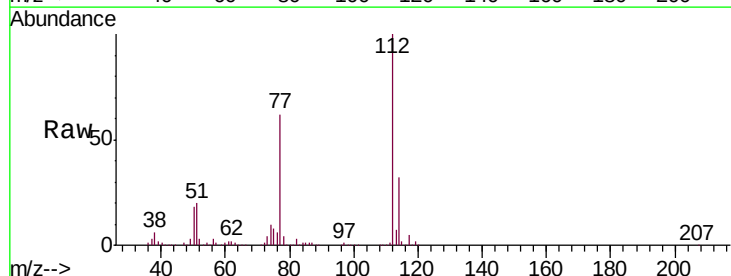
Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

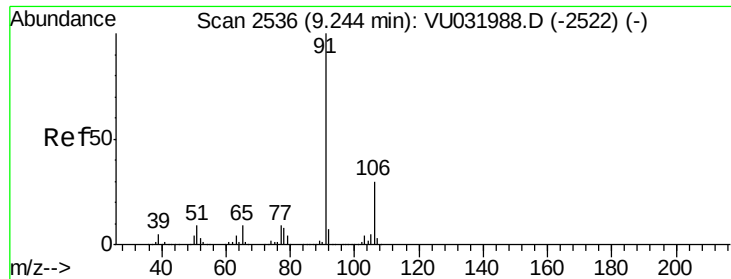
Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.5	66.0	122.6
188	3.4	2.7	4.1



#51
Chlorobenzene
Concen: 46.225 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU032014.D
Acq: 14 May 2019 23:43

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.1	41.1
77	62.1	49.5	74.3





#52

Ethylbenzene

Concen: 49.525 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

Instrument :

MSVOA_U

ClientSampleId :

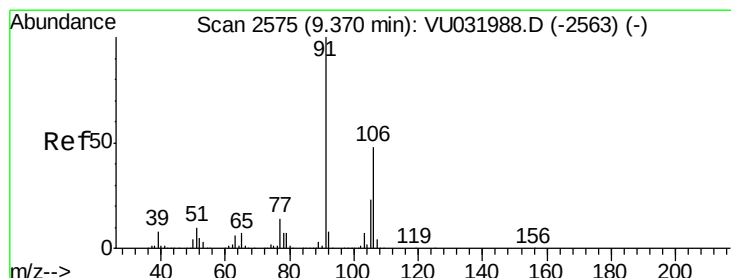
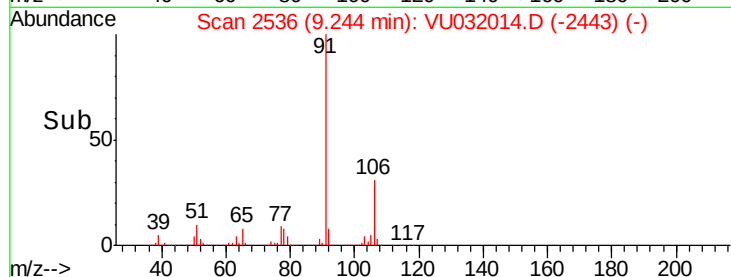
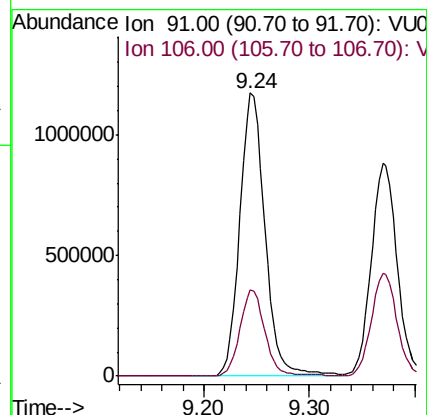
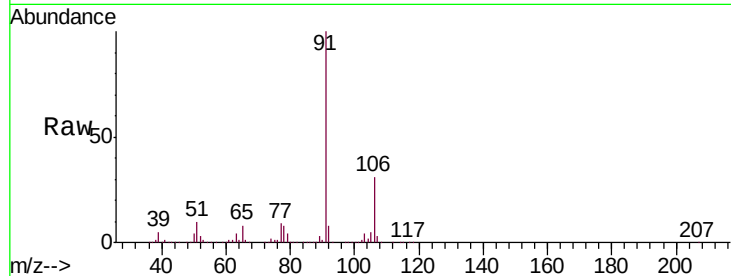
VSTD05045

Tgt Ion: 91 Resp: 1946622

Ion Ratio Lower Upper

91 100

106 30.5 21.3 39.5



#53

m,p-Xylene

Concen: 49.887 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU032014.D

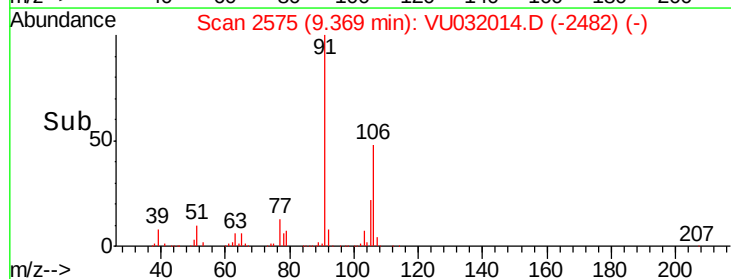
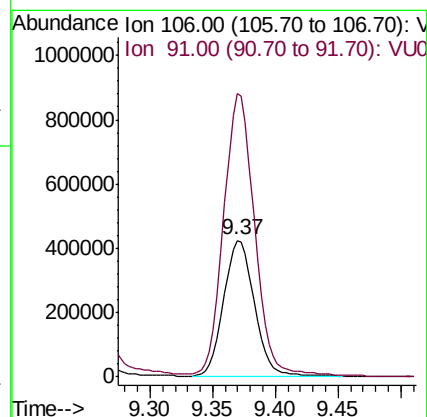
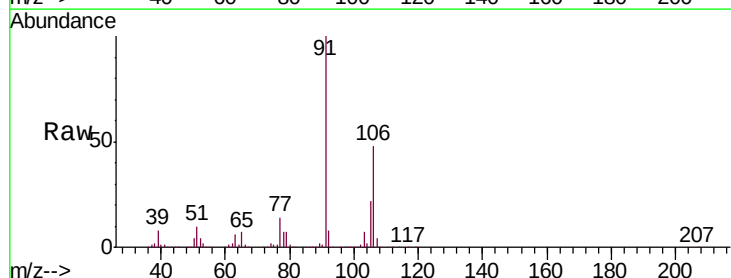
Acq: 14 May 2019 23:43

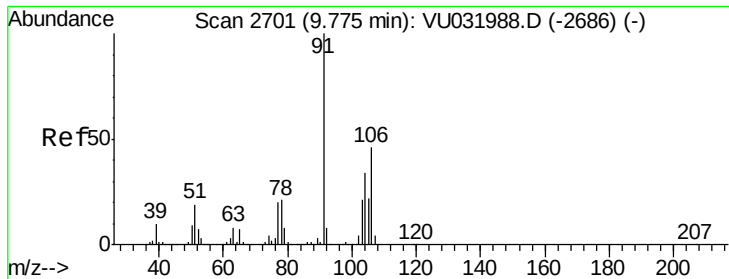
Tgt Ion: 106 Resp: 715589

Ion Ratio Lower Upper

106 100

91 207.7 144.8 269.0





#54

o-xylene

Concen: 52.080 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

Instrument :

MSVOA_U

ClientSampleId :

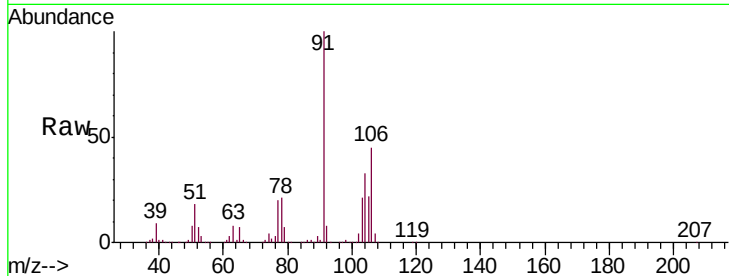
VSTD05045

Tgt Ion:106 Resp: 737616

Ion Ratio Lower Upper

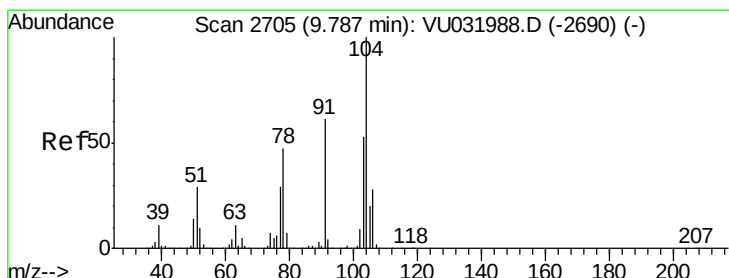
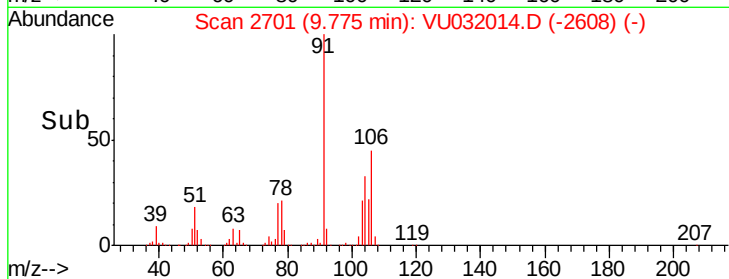
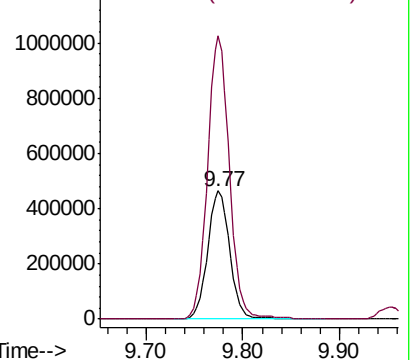
106 100

91 220.6 153.9 285.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.743 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU032014.D

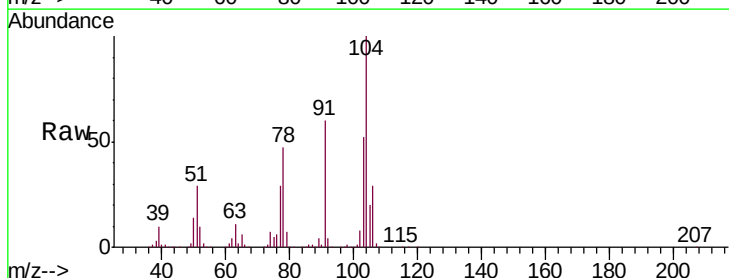
Acq: 14 May 2019 23:43

Tgt Ion:104 Resp: 1257989

Ion Ratio Lower Upper

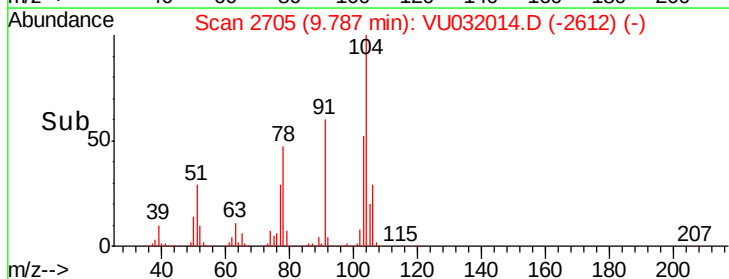
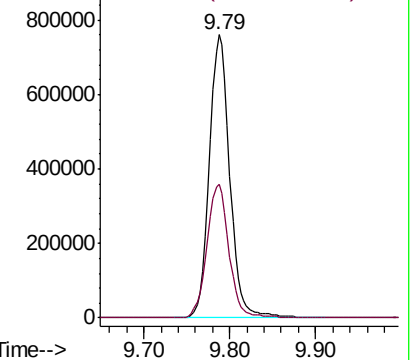
104 100

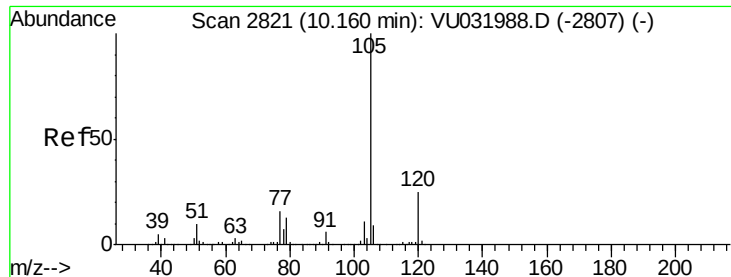
78 47.2 33.2 61.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 51.101 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

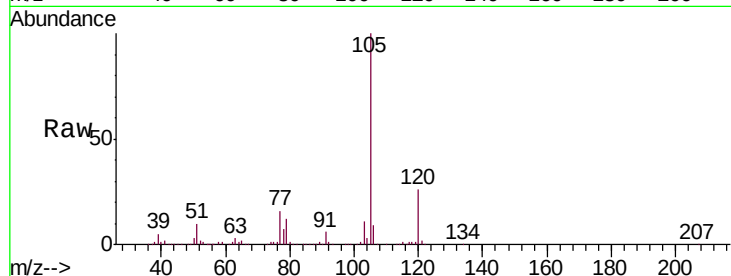
Tgt Ion:105 Resp: 1854402

Ion Ratio Lower Upper

105 100

120 25.7 20.5 30.7

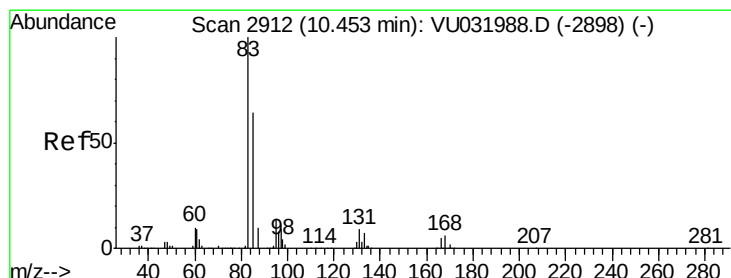
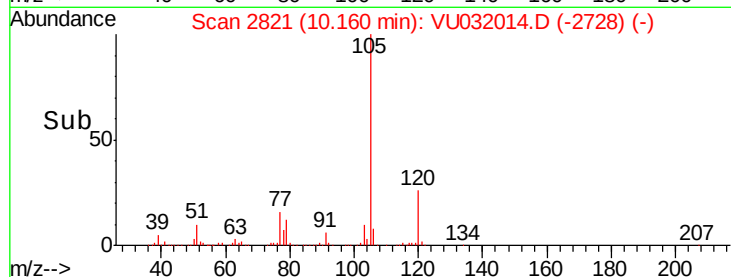
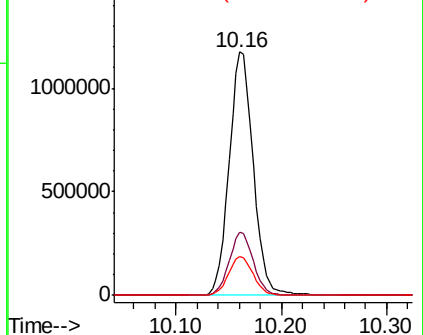
77 16.1 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 46.787 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

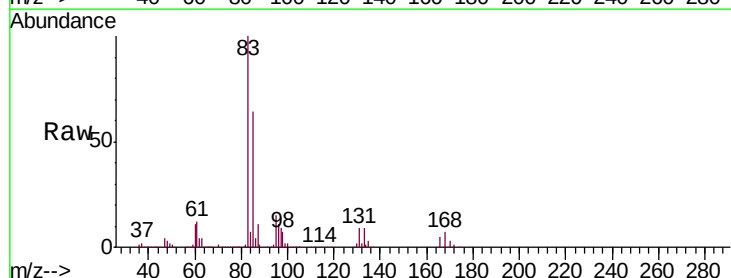
Tgt Ion: 83 Resp: 744454

Ion Ratio Lower Upper

83 100

85 64.1 45.8 85.2

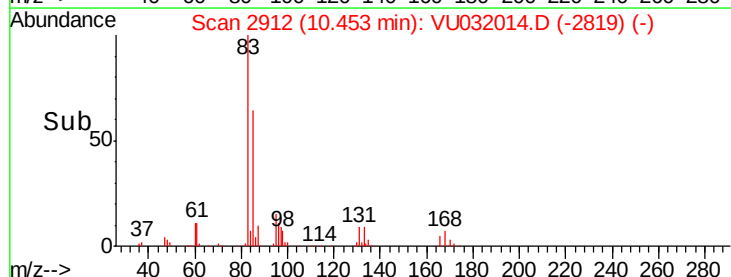
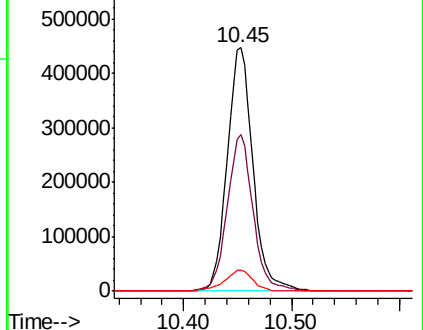
131 8.8 7.0 10.4

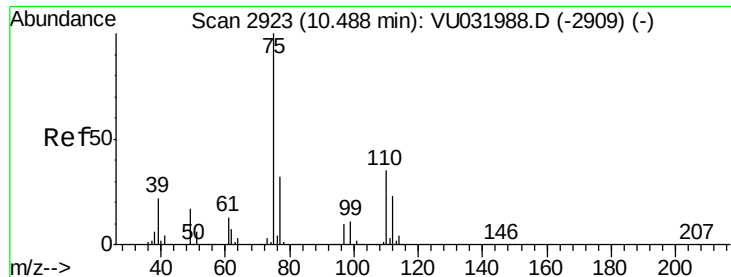


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 46.824 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

Instrument :

MSVOA_U

ClientSampleId :

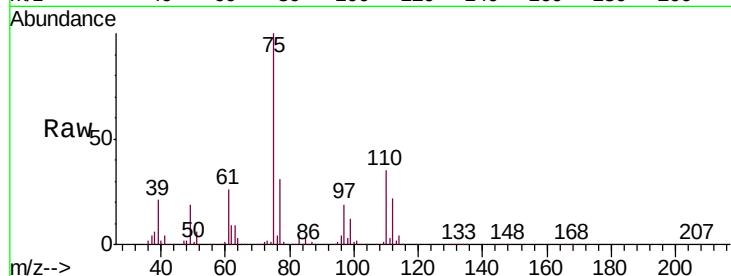
VSTD05045

Tgt Ion: 75 Resp: 587165

Ion Ratio Lower Upper

75 100

77 31.3 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU031988.D (-2909) (-)

Ion 77.00 (76.70 to 77.70): VU031988.D (-2909) (-)

10.49

400000

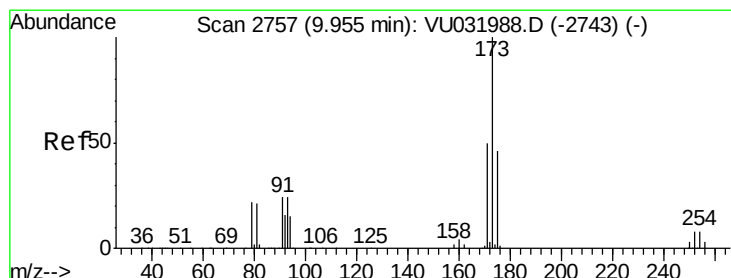
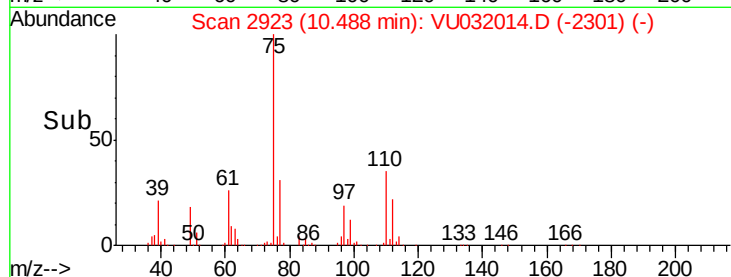
300000

200000

100000

0

Time-->



#61

Bromoform

Concen: 44.190 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

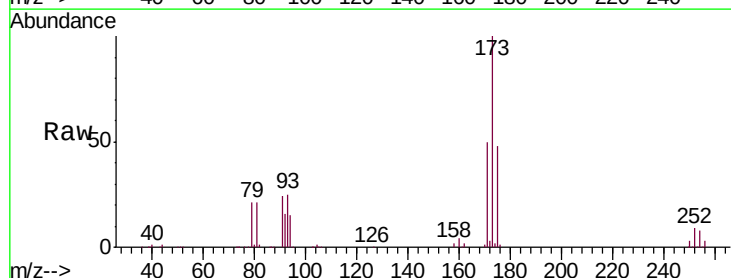
Tgt Ion: 173 Resp: 296532

Ion Ratio Lower Upper

173 100

175 48.4 38.4 57.6

254 8.2 6.6 9.8



Abundance Ion 173.00 (172.70 to 173.70): VU031988.D (-2743) (-)

Ion 175.00 (174.70 to 175.70): VU031988.D (-2743) (-)

Ion 254.00 (253.70 to 254.70): VU031988.D (-2743) (-)

9.95

250000

200000

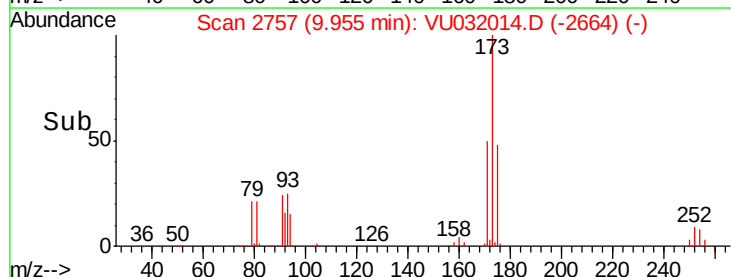
150000

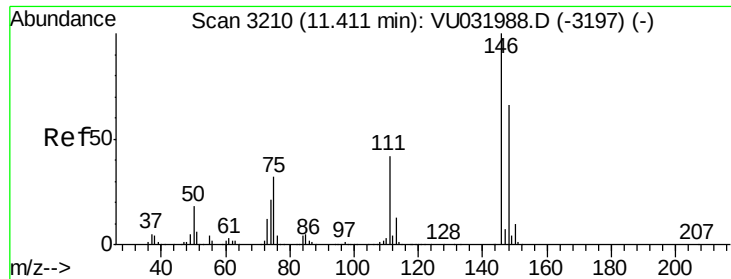
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 47.249 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

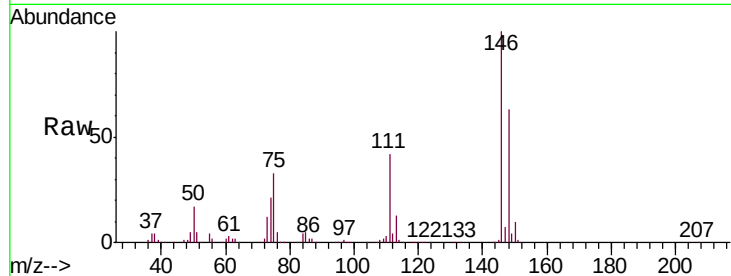
Tgt Ion:146 Resp: 777262

Ion Ratio Lower Upper

146 100

111 41.5 29.0 53.9

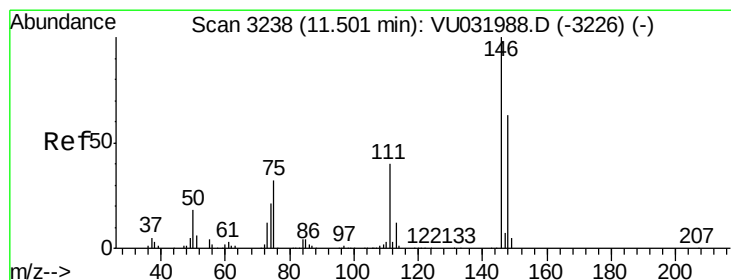
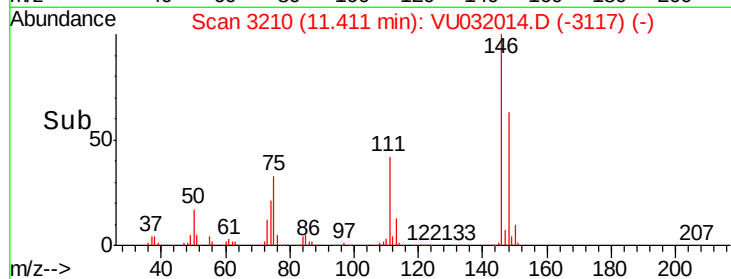
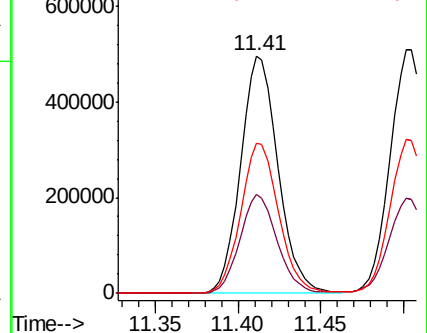
148 63.4 43.3 80.3



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: 45.593 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

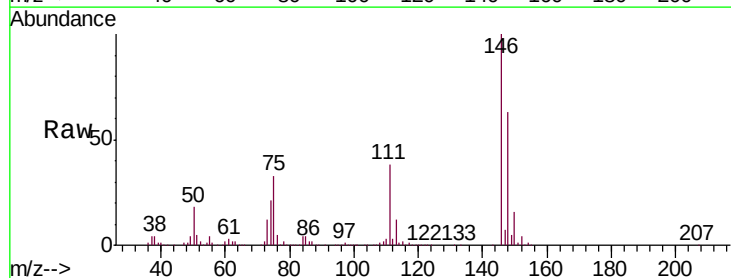
Tgt Ion:146 Resp: 793329

Ion Ratio Lower Upper

146 100

111 38.5 27.9 51.7

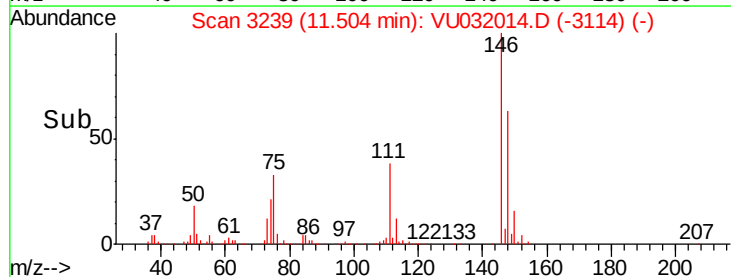
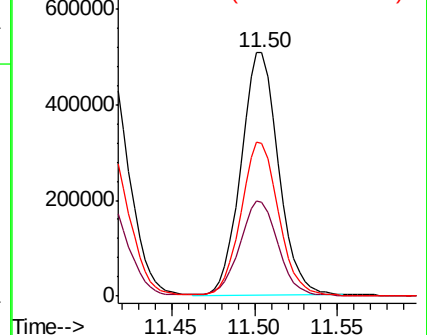
148 62.9 44.7 83.1

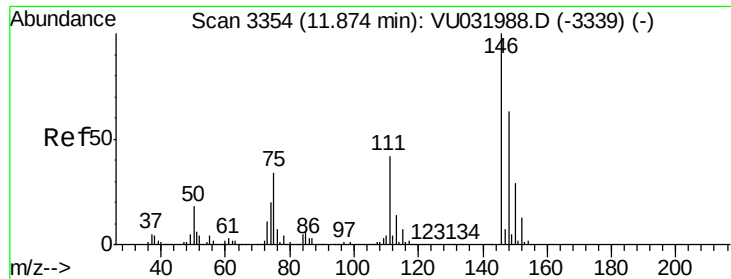


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

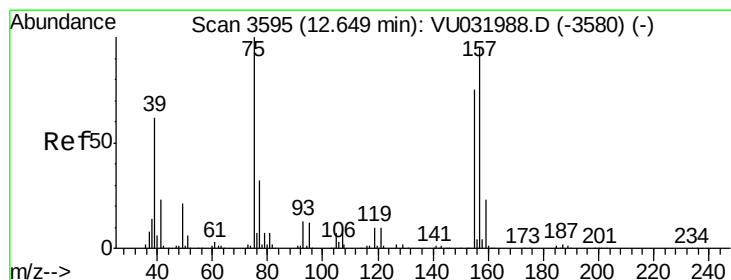
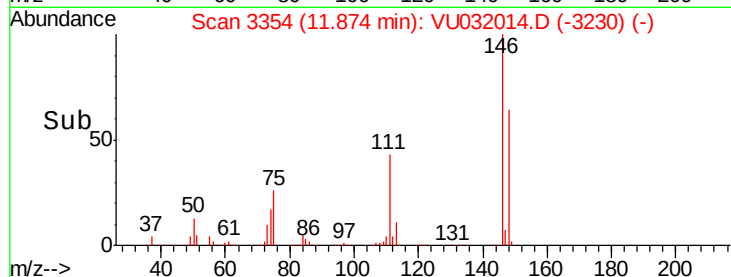
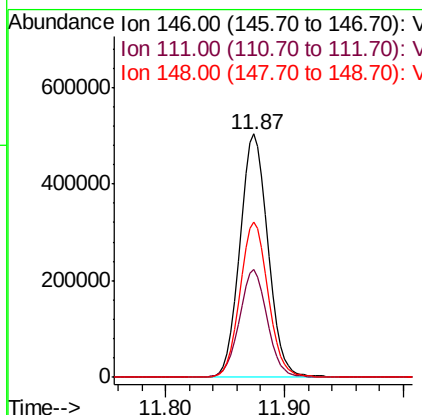
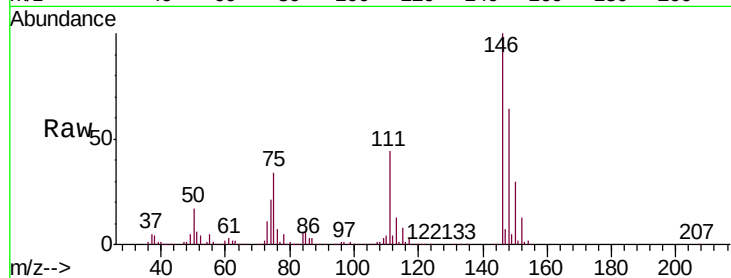




#65
 1,2-Dichlorobenzene
 Concen: 47.109 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU032014.D
 Acq: 14 May 2019 23:43

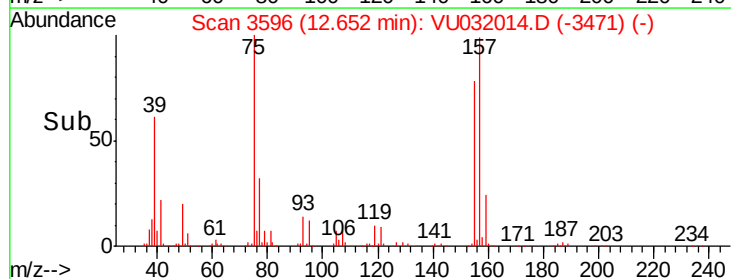
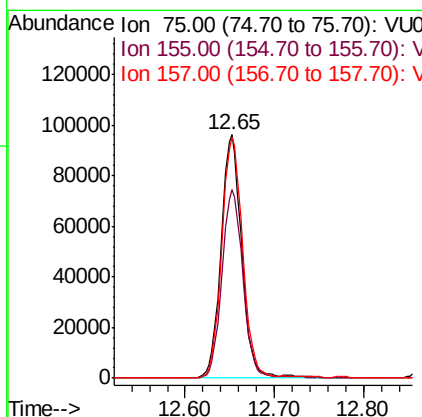
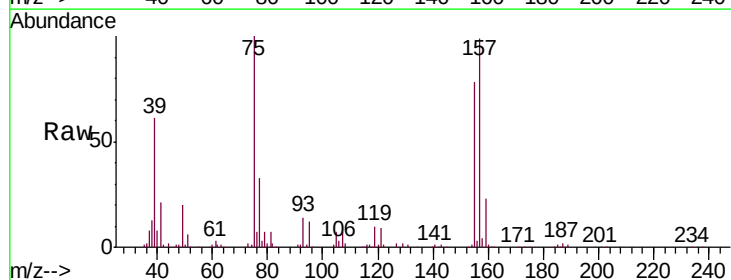
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

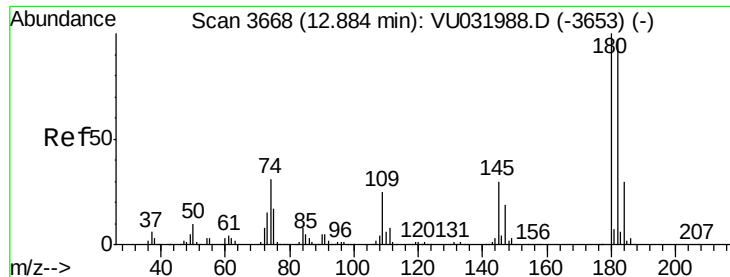
Tgt Ion: 146 Resp: 821217
 Ion Ratio Lower Upper
 146 100
 111 44.3 34.8 52.2
 148 64.0 51.4 77.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.107 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU032014.D
 Acq: 14 May 2019 23:43

Tgt Ion: 75 Resp: 155275
 Ion Ratio Lower Upper
 75 100
 155 77.7 63.8 95.8
 157 99.0 80.2 120.2

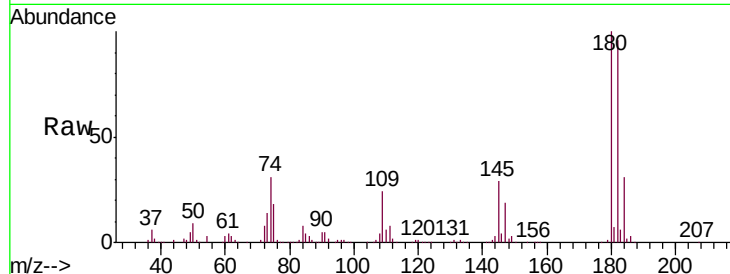




#67
 1,3,5-Trichlorobenzene
 Concen: 47.910 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU032014.D
 Acq: 14 May 2019 23:43

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.4	114.6
184	30.4	24.7	37.1
145	29.3	23.9	35.9



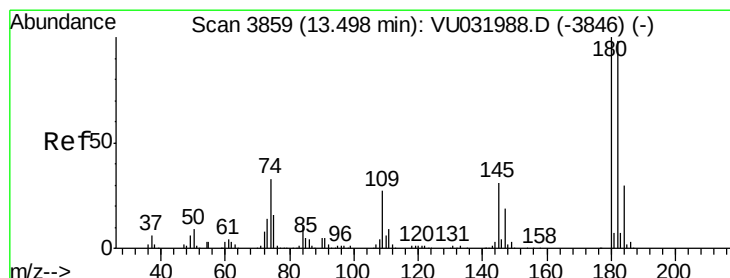
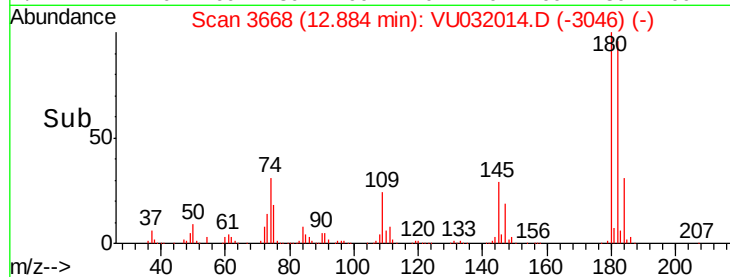
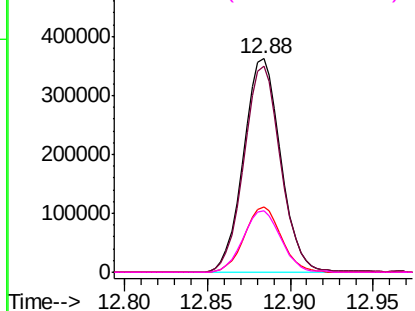
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

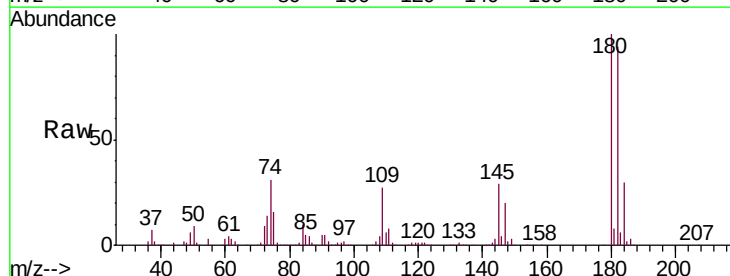
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 51.165 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU032014.D
 Acq: 14 May 2019 23:43

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.6	76.1	114.1
145	29.1	24.0	36.0

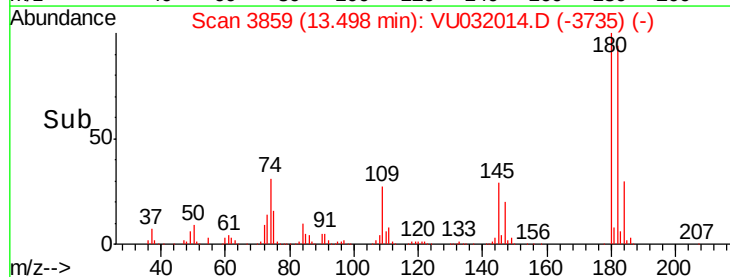
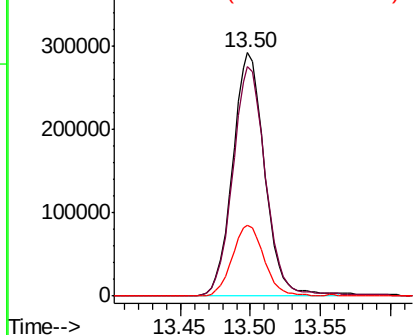


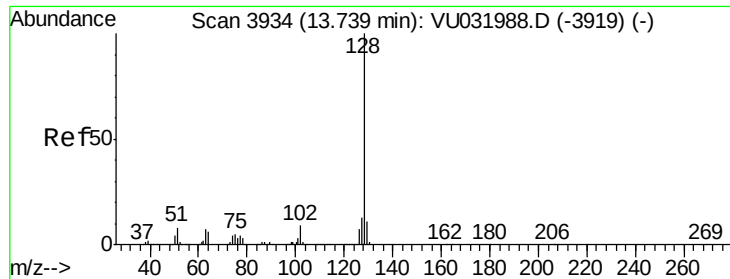
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 56.145 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

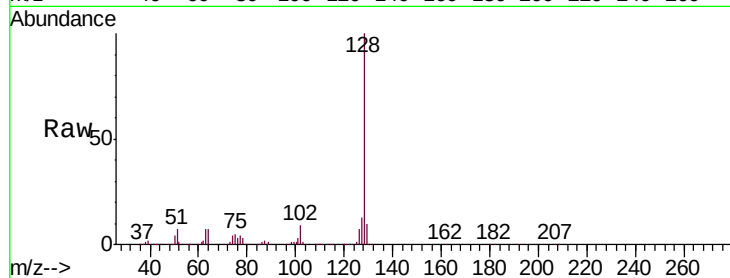
Tgt Ion:128 Resp: 1698593

Ion Ratio Lower Upper

128 100

127 12.9 10.6 16.0

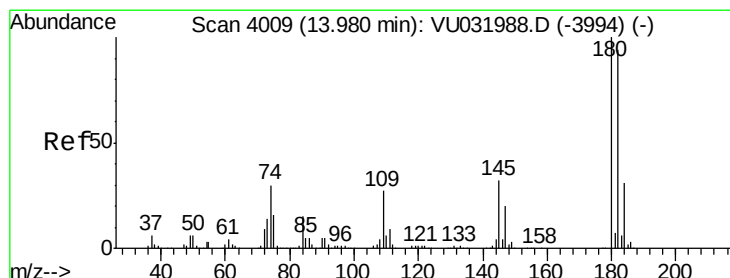
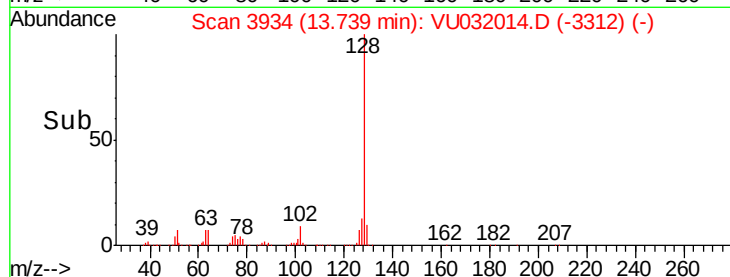
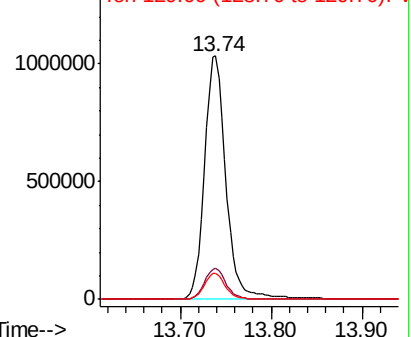
129 10.4 8.6 13.0



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: 51.921 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VU032014.D

Acq: 14 May 2019 23:43

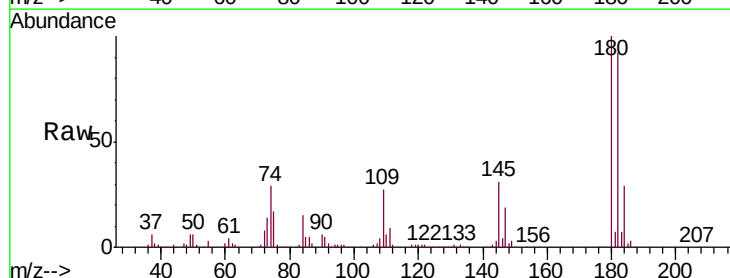
Tgt Ion:180 Resp: 513572

Ion Ratio Lower Upper

180 100

182 95.3 75.8 113.6

145 32.0 25.5 38.3



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

