

Data File : VU032216.D
Acq On : 22 May 2019 12:32
Operator : JC/SP
Sample : VSTD0.507
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.507

Quant Time: May 23 01:06:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 23 01:03:28 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	376767	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	375274	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	160884	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	12648	0.43	ug/L	0.00
7) Chloroethane-d5	1.68	69	10725	0.42	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	21190	0.44	ug/L	0.00
20) 2-Butanone-d5	4.22	46	29753	4.84	ug/L	0.02
24) Chloroform-d	4.65	84	28868	0.52	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	15006	0.52	ug/L	0.00
32) Benzene-d6	5.33	84	56333	0.50	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	19059	0.57	ug/L	0.00
41) Toluene-d8	7.56	98	50579	0.50	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.86	79	5722	0.46	ug/L	0.00
46) 2-Hexanone-d5	8.32	63	19832	3.69	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	18163	0.63	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	25328	0.70	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	7911	0.433 ug/L	99
3) Chloromethane	1.32	50	9336	0.526 ug/L	94
5) Vinyl chloride	1.40	62	8037	0.431 ug/L	99
6) Bromomethane	1.63	94	5509	0.507 ug/L	82
8) Chloroethane	1.70	64	6481	0.560 ug/L	89
9) Trichlorofluoromethane	1.88	101	10382	0.451 ug/L	94
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	7150	0.473 ug/L	92
12) 1,1-Dichloroethene	2.28	96	6804	0.459 ug/L	88
13) Acetone	2.35	43	9918	4.924 ug/L	71
14) Carbon disulfide	2.47	76	21526	0.455 ug/L #	93
15) Methyl Acetate	2.62	43	3684	0.642 ug/L #	83
16) Methylene chloride	2.70	84	13994	0.791 ug/L	88
17) Methyl tert-butyl Ether	3.00	73	14711	0.423 ug/L #	92
18) trans-1,2-Dichloroethene	2.97	96	7617	0.483 ug/L	84
19) 1,1-Dichloroethane	3.44	63	10165	0.404 ug/L	97
22) cis-1,2-Dichloroethene	4.23	96	6757	0.433 ug/L	92
23) Bromochloromethane	4.55	128	2581	0.379 ug/L	90
25) Chloroform	4.67	83	11780	0.436 ug/L	90
27) 1,2-Dichloroethane	5.40	62	6602	0.425 ug/L #	92
29) 1,1,1-Trichloroethane	4.91	97	9664	0.447 ug/L	92
30) Cyclohexane	4.99	56	8492	0.428 ug/L	94
31) Carbon tetrachloride	5.13	117	8769	0.476 ug/L	89
33) Benzene	5.39	78	23486	0.416 ug/L	100
34) Trichloroethene	6.19	95	6662	0.436 ug/L	88
35) Methylcyclohexane	6.41	83	9238	0.417 ug/L	93
37) 1,2-Dichloropropane	6.44	63	5885	0.427 ug/L #	97
38) Bromodichloromethane	6.76	83	7771	0.440 ug/L #	87
39) cis-1,3-Dichloropropene	7.28	75	7666	0.400 ug/L	88
40) 4-Methyl-2-pentanone	7.47	43	27899	4.306 ug/L	96
42) Toluene	7.64	91	23250	0.390 ug/L	84

Data File : VU032216.D
Acq On : 22 May 2019 12:32
Operator : JC/SP
Sample : VSTD0.507
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.507

Quant Time: May 23 01:06:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 23 01:03:28 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	7.89	75	5785	0.388	ug/L	96
45) 1,1,2-Trichloroethane	8.07	97	4901	0.480	ug/L	84
47) Tetrachloroethene	8.22	164	5490	0.474	ug/L	90
48) 2-Hexanone	8.37	43	21915	4.383	ug/L #	88
49) Dibromochloromethane	8.47	129	4795	0.404	ug/L	89
50) 1,2-Dibromoethane	8.59	107	4194	0.429	ug/L #	90
51) Chlorobenzene	9.12	112	16263	0.431	ug/L	95
52) Ethylbenzene	9.25	91	24039	0.404	ug/L	96
53) m,p-Xylene	9.38	106	7604	0.335	ug/L	96
54) o-Xylene	9.78	106	8177	0.375	ug/L	89
55) Styrene	9.80	104	12791	0.347	ug/L	83
56) Isopropylbenzene	10.16	105	20776	0.374	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.46	83	5546	0.438	ug/L	92
59) 1,2,3-Trichloropropane	10.50	75	3990	0.455	ug/L	99
61) Bromoform	9.96	173	2996	0.498	ug/L #	92
62) 1,3-Dichlorobenzene	11.42	146	12653	0.506	ug/L	87
63) 1,4-Dichlorobenzene	11.50	146	13796	0.525	ug/L	94
65) 1,2-Dichlorobenzene	11.88	146	12363	0.484	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.66	75	419	0.256	ug/L	91
67) 1,3,5-Trichlorobenzene	12.89	180	8751	0.465	ug/L	98
68) 1,2,4-trichlorobenzene	13.51	180	4509	0.347	ug/L #	57
69) Naphthalene	13.76	128	3742	0.190	ug/L	95
70) 1,2,3-Trichlorobenzene	13.99	180	7328	0.555	ug/L #	87

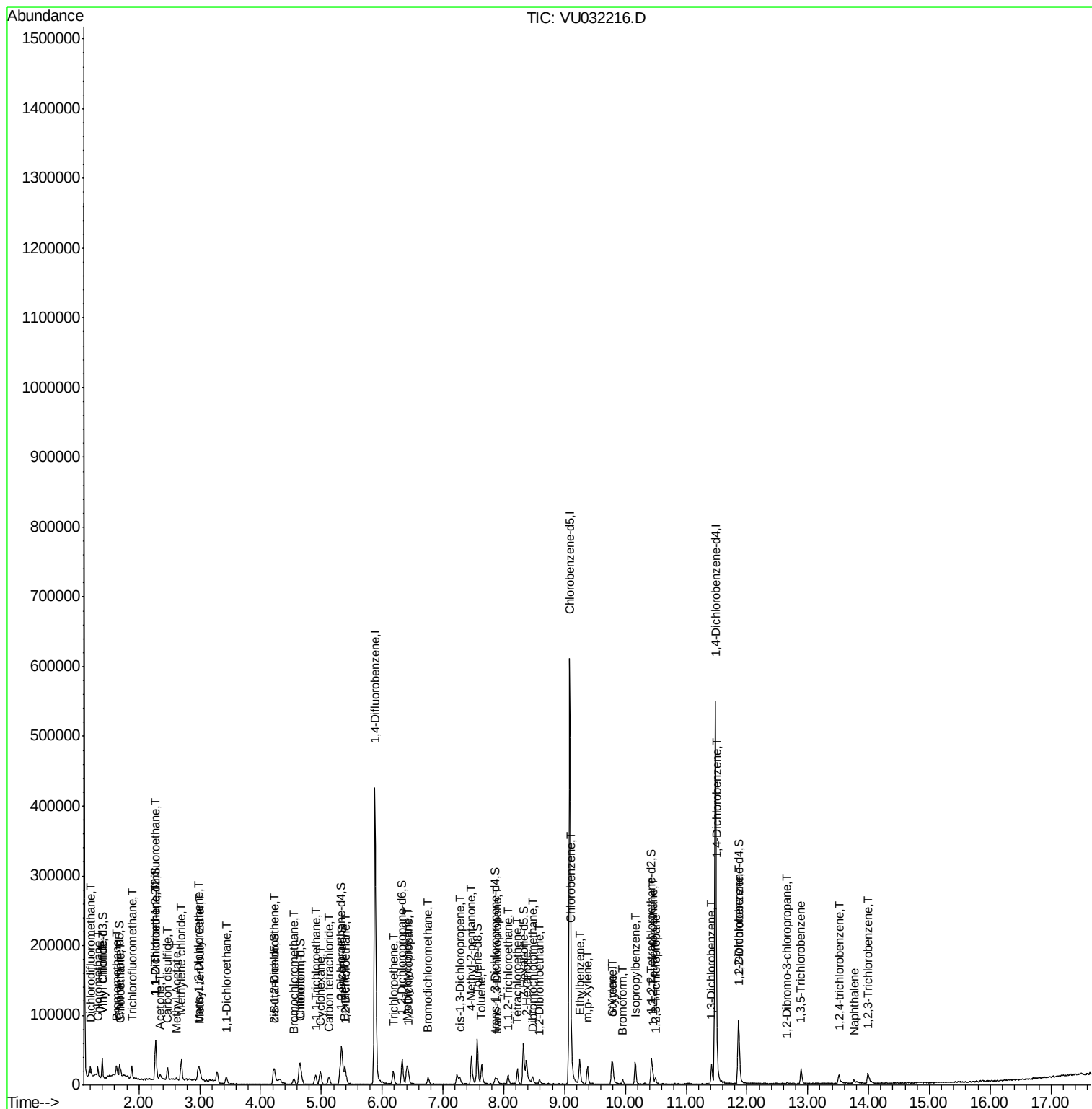
(#) = qualifier out of range (m) = manual integration (+) = signals summed

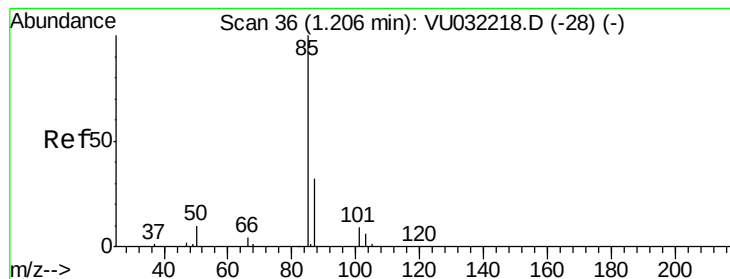
Data File : VU032216.D

```
Acq On      : 22 May 2019   12:32
Operator    : JC/SP
Sample      : VSTD0.507
Misc       : 25.0mL/MSV0A_U/WATER
ALS Vial    : 2      Sample Multiplier: 1
```

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.507

Quant Time: May 23 01:06:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 23 01:03:28 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.433 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

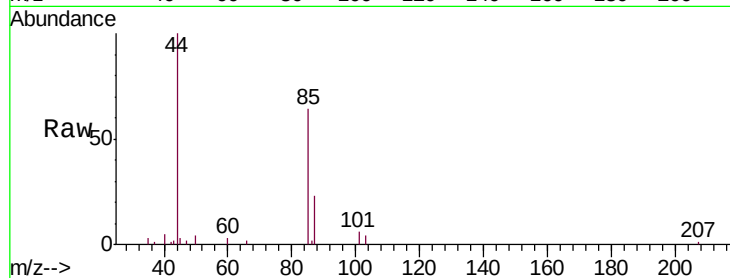
VSTD0.507

Tgt Ion: 85 Resp: 7911

Ion Ratio Lower Upper

85 100

87 33.8 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VU032218.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU032218.D (-28) (-)

1.21

8000

6000

4000

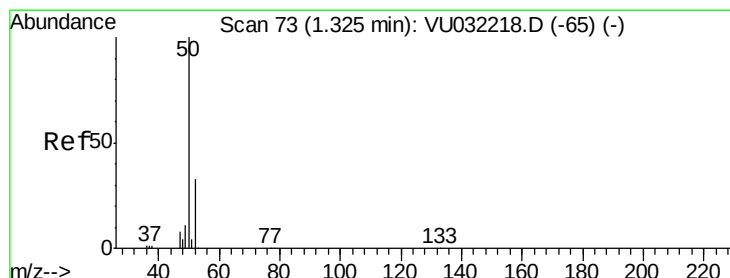
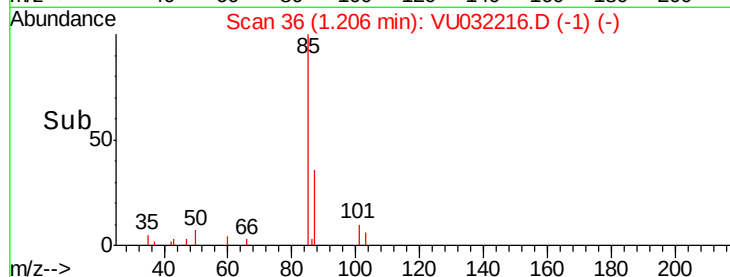
2000

0

1.20

1.25

Time-->



#3

Chloromethane

Concen: 0.526 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032216.D

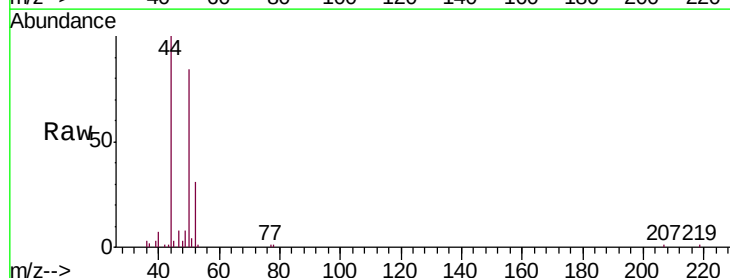
Acq: 22 May 2019 12:32

Tgt Ion: 50 Resp: 9336

Ion Ratio Lower Upper

50 100

52 36.7 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU032218.D (-65) (-)

Ion 52.05 (51.75 to 52.75): VU032218.D (-65) (-)

1.32

10000

8000

6000

4000

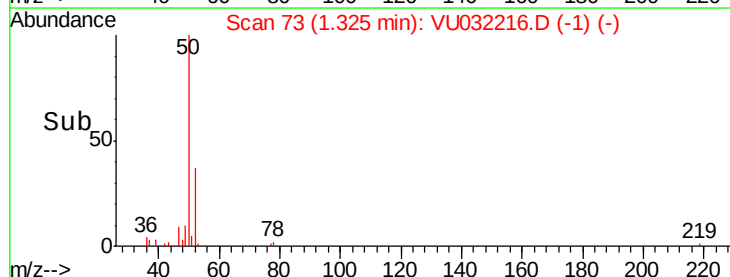
2000

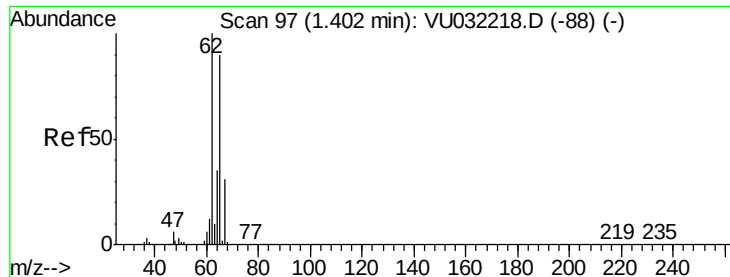
0

1.30

1.35

Time-->





#5

Vinyl chloride

Concen: 0.431 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

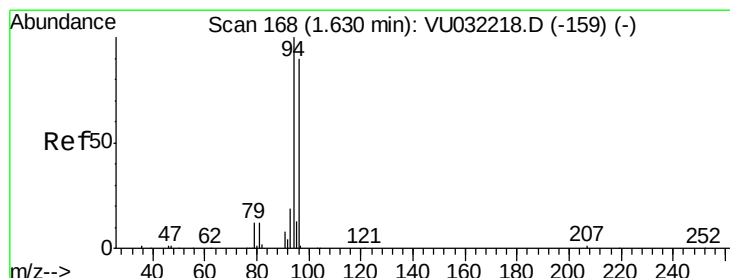
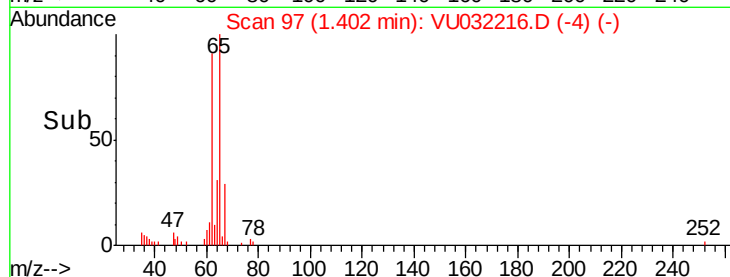
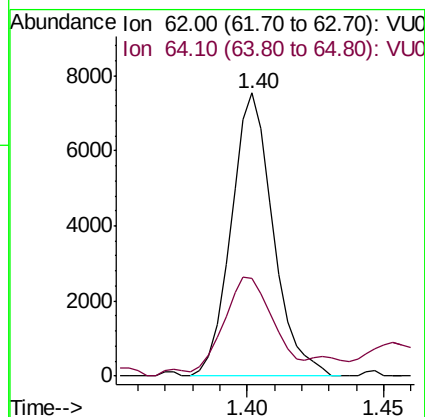
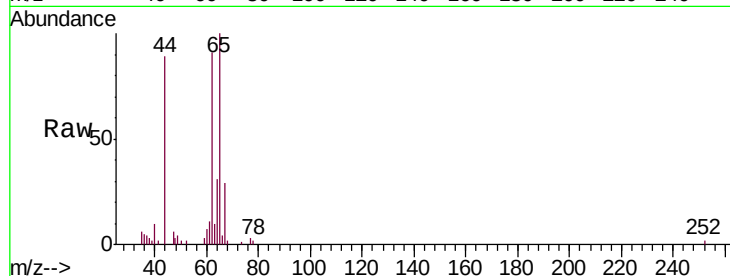
VSTD0.507

Tgt Ion: 62 Resp: 8037

Ion Ratio Lower Upper

62 100

64 34.5 24.4 45.2



#6

Bromomethane

Concen: 0.507 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU032216.D

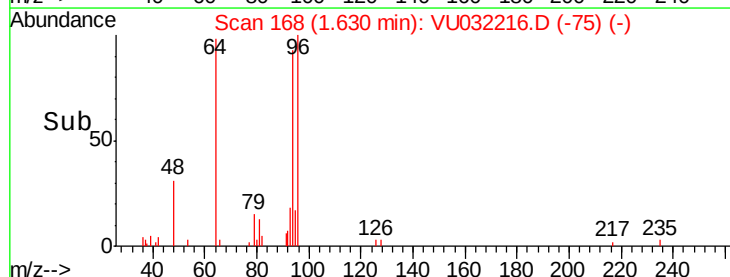
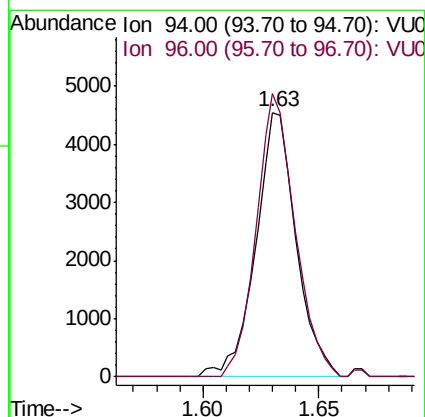
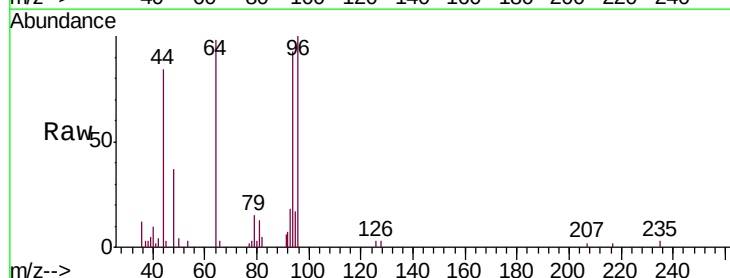
Acq: 22 May 2019 12:32

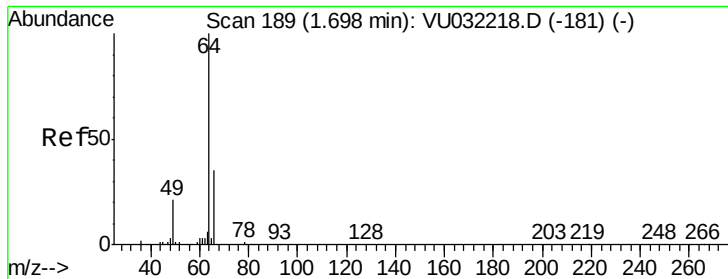
Tgt Ion: 94 Resp: 5509

Ion Ratio Lower Upper

94 100

96 107.1 63.0 117.0





#8

Chloroethane

Concen: 0.560 ug/L

RT: 1.70 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

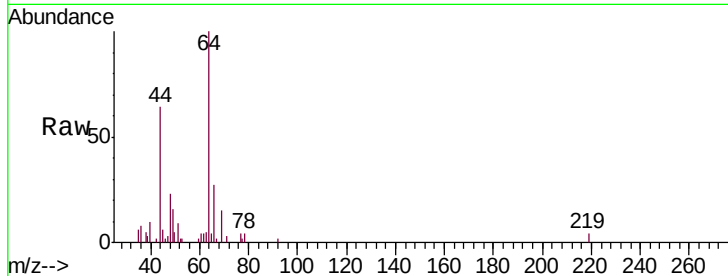
VSTD0.507

Tgt Ion: 64 Resp: 6481

Ion Ratio Lower Upper

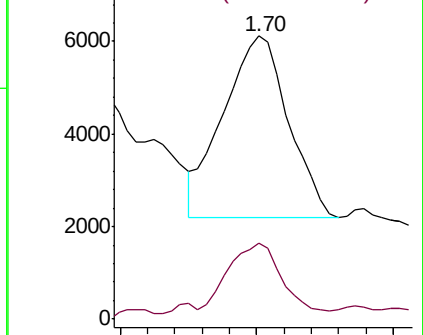
64 100

66 26.8 23.1 42.9

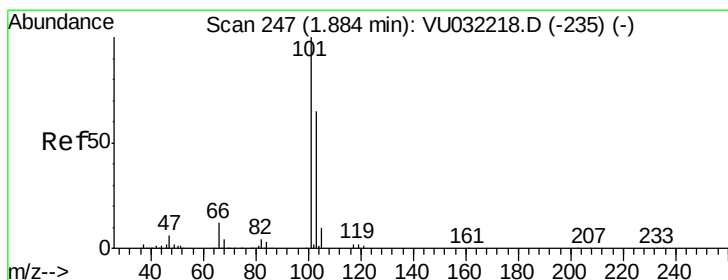
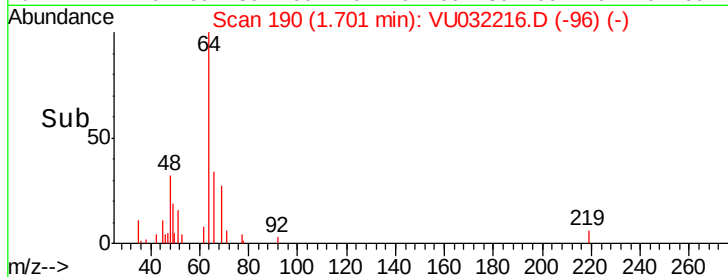


Abundance Ion 64.10 (63.80 to 64.80): VU032216.D (-196) (-)

Ion 66.05 (65.75 to 66.75): VU032216.D (-196) (-)



Time-->



#9

Trichlorofluoromethane

Concen: 0.451 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU032216.D

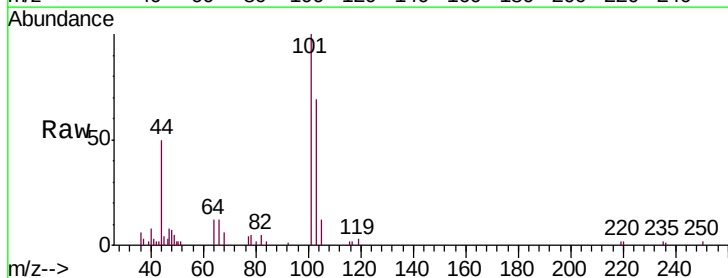
Acq: 22 May 2019 12:32

Tgt Ion: 101 Resp: 10382

Ion Ratio Lower Upper

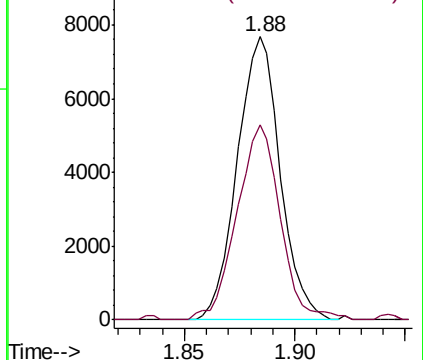
101 100

103 69.8 51.9 77.9

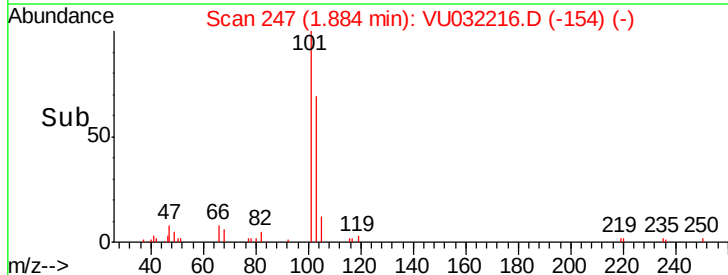


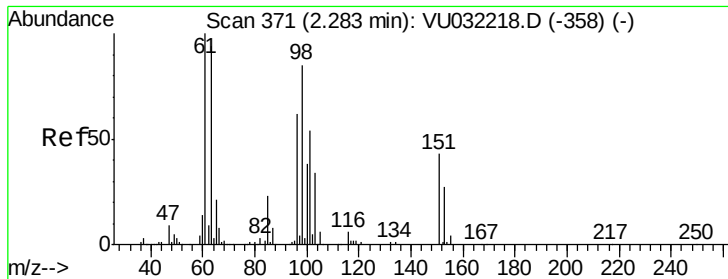
Abundance Ion 101.00 (100.70 to 101.70): VU032216.D (-154) (-)

Ion 103.00 (102.70 to 103.70): VU032216.D (-154) (-)



Time-->





#10

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

Concen: 0.473 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.507

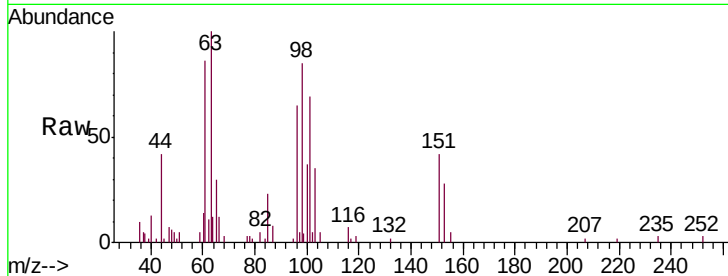
Tgt Ion:101 Resp: 7150

Ion Ratio Lower Upper

101 100

85 38.8 34.2 51.4

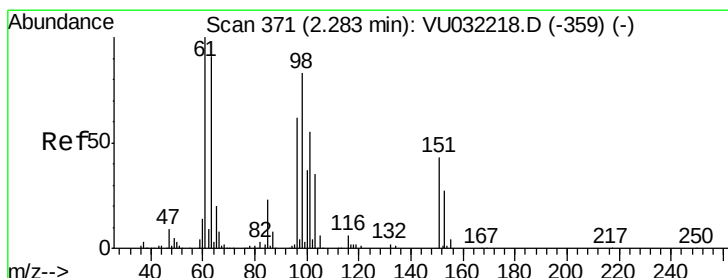
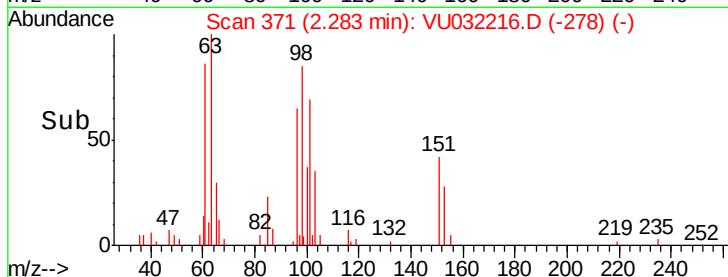
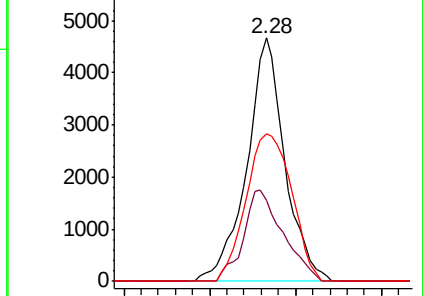
151 72.6 64.4 96.6



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: 0.459 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

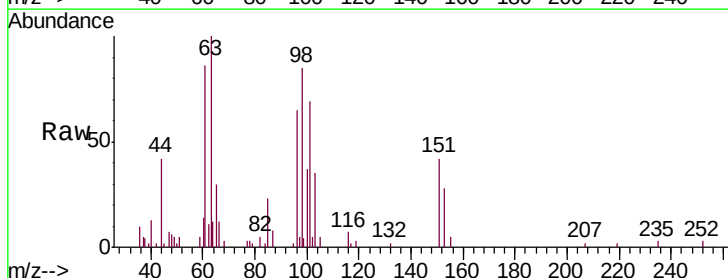
Tgt Ion: 96 Resp: 6804

Ion Ratio Lower Upper

96 100

61 131.6 113.8 211.3

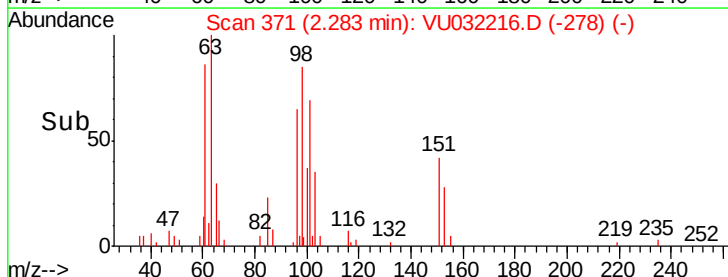
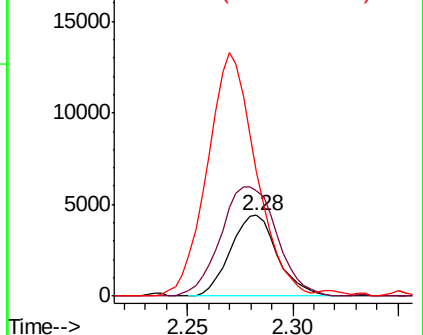
63 154.0 108.8 202.2

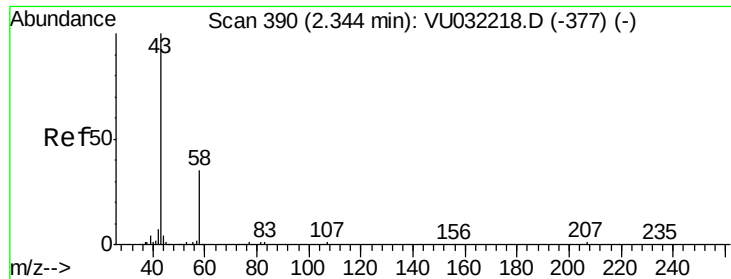


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 4.924 ug/L

RT: 2.35 min Scan# 391

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

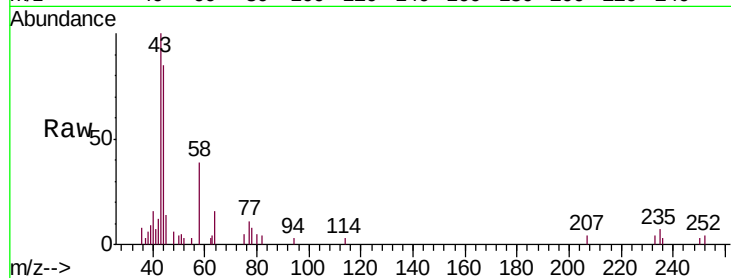
VSTD0.507

Tgt Ion: 43 Resp: 9918

Ion Ratio Lower Upper

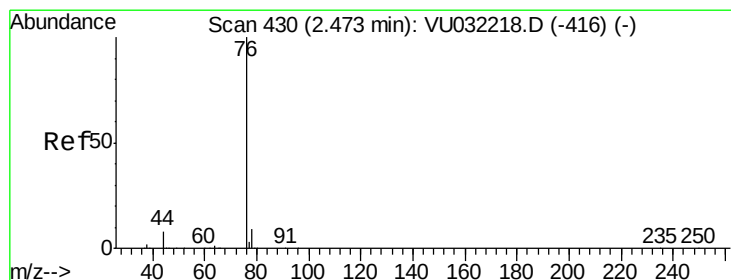
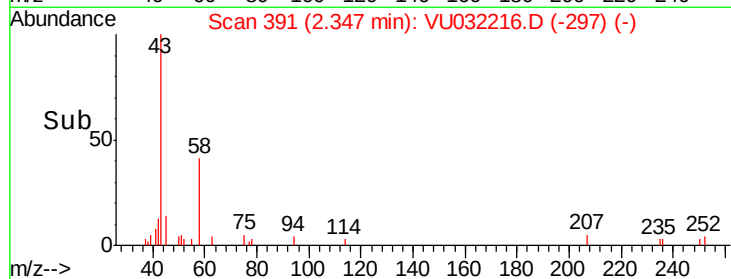
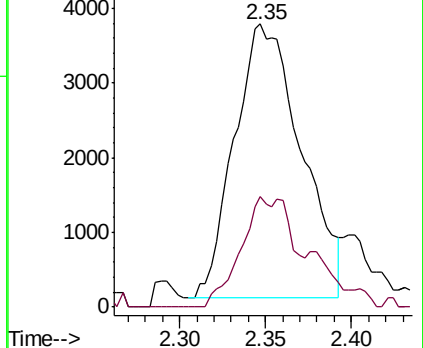
43 100

58 19.0 0.0 72.6



Abundance Ion 43.05 (42.75 to 43.75): VU032216.D (-377) (-)

Ion 58.05 (57.75 to 58.75): VU032216.D (-377) (-)



#14

Carbon disulfide

Concen: 0.455 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU032216.D

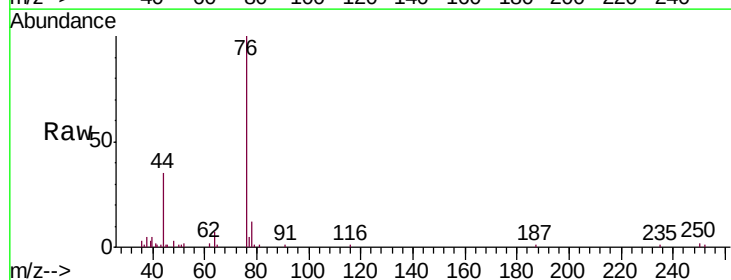
Acq: 22 May 2019 12:32

Tgt Ion: 76 Resp: 21526

Ion Ratio Lower Upper

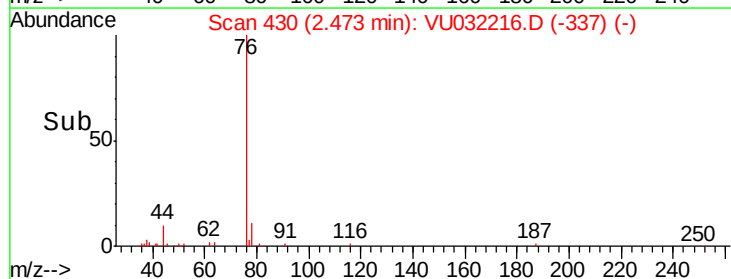
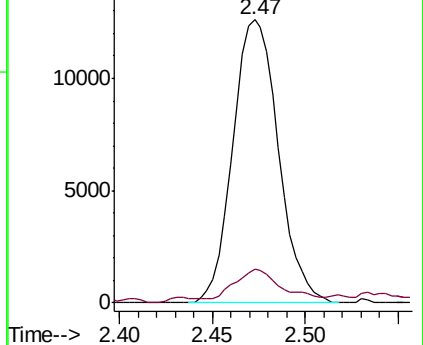
76 100

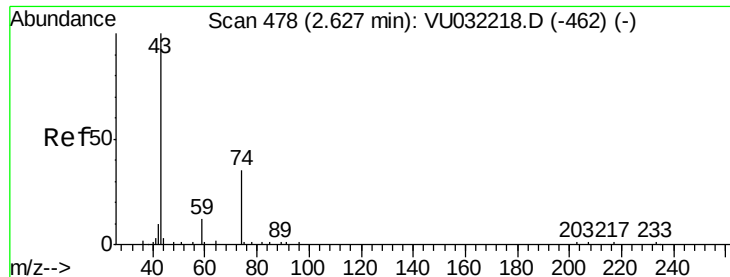
78 12.0 7.5 11.3#



Abundance Ion 76.05 (75.75 to 76.75): VU032216.D (-337) (-)

Ion 78.00 (77.70 to 78.70): VU032216.D (-337) (-)

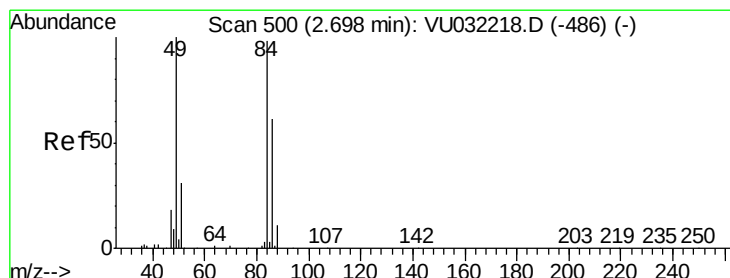
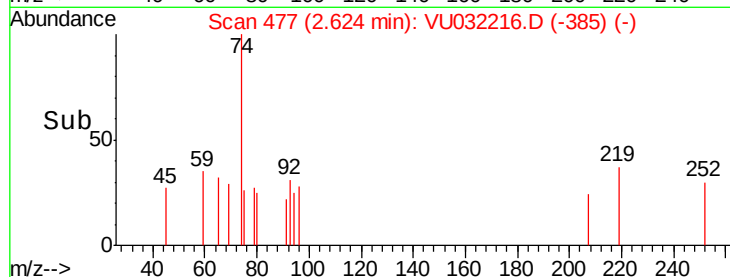
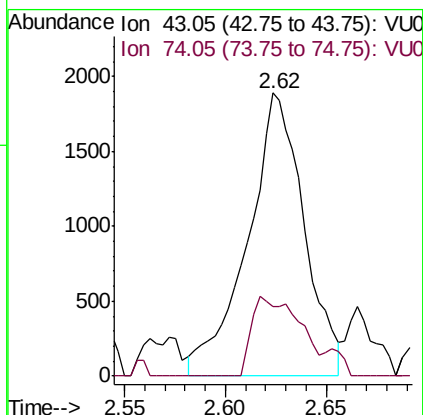
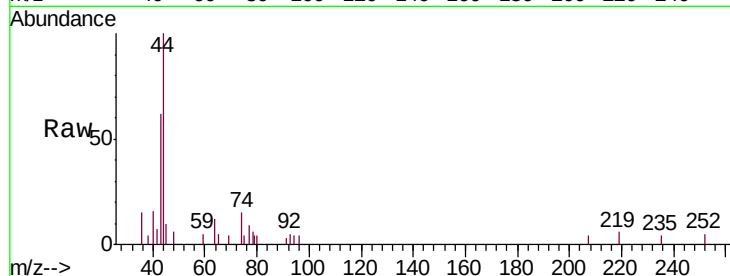




#15
Methyl Acetate
Concen: 0.642 ug/L
RT: 2.62 min Scan# 477
Delta R.T. -0.00 min
Lab File: VU032216.D
Acq: 22 May 2019 12:32

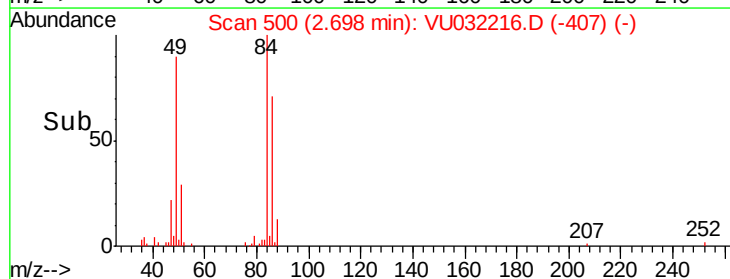
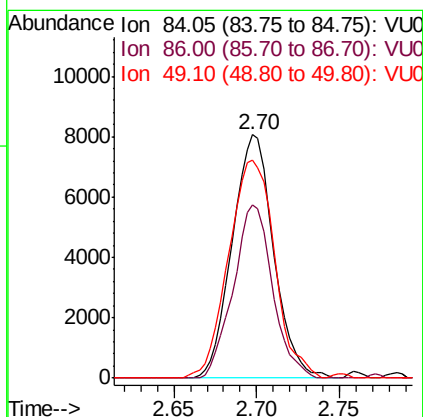
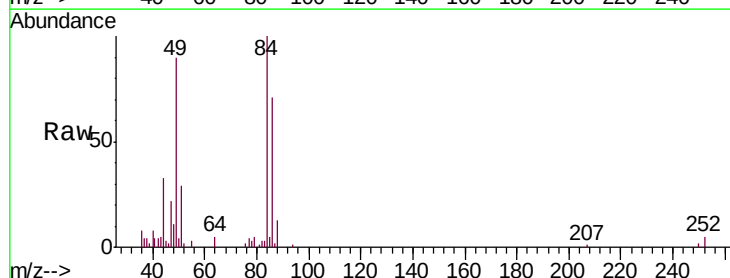
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.507

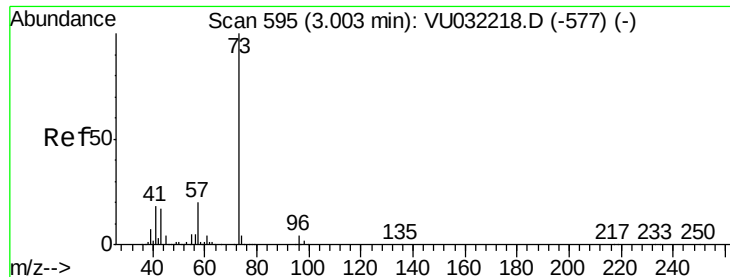
Tgt Ion: 43 Resp: 3684
Ion Ratio Lower Upper
43 100
74 24.6 27.3 40.9#



#16
Methylene chloride
Concen: 0.791 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU032216.D
Acq: 22 May 2019 12:32

Tgt Ion: 84 Resp: 13994
Ion Ratio Lower Upper
84 100
86 71.2 43.6 81.0
49 89.8 71.1 132.1

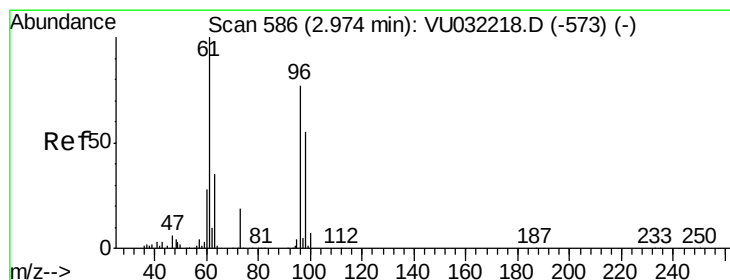
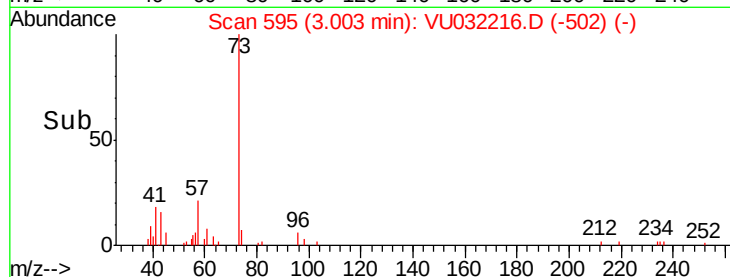
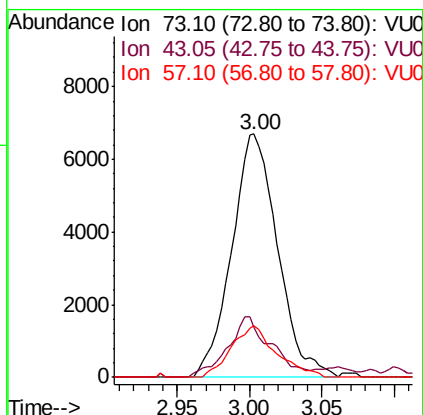
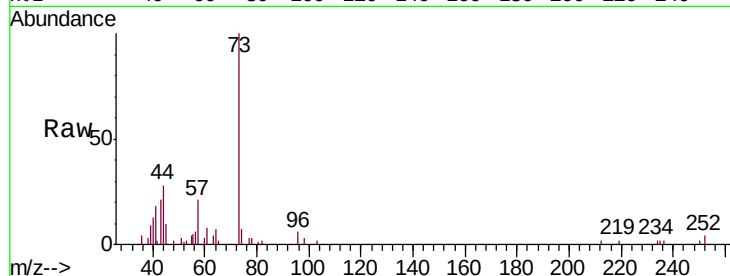




#17
Methyl tert-butyl Ether
Concen: 0.423 ug/L
RT: 3.00 min Scan# 595
Delta R.T. 0.00 min
Lab File: VU032216.D
Acq: 22 May 2019 12:32

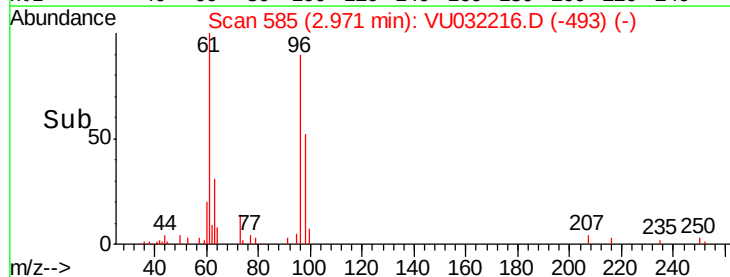
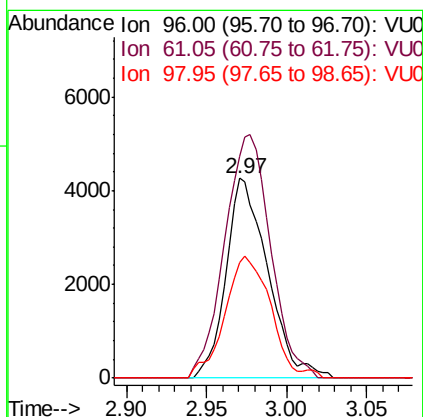
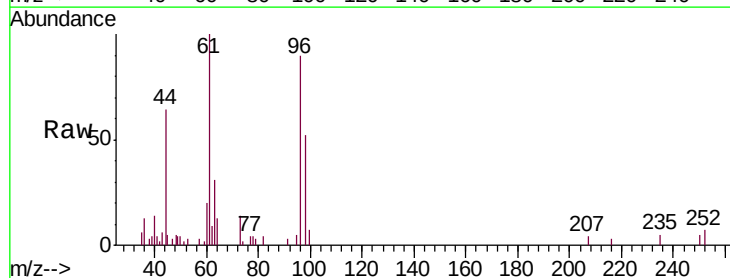
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.507

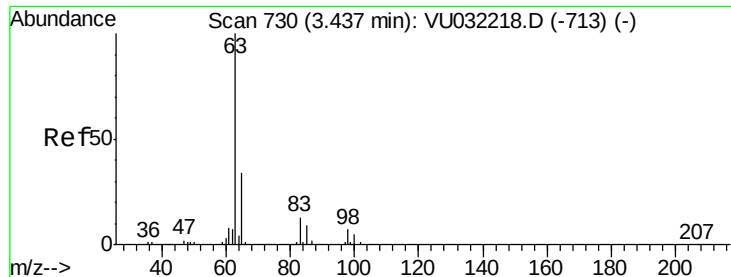
Tgt Ion: 73 Resp: 14711
Ion Ratio Lower Upper
73 100
43 23.9 13.8 20.6#
57 20.8 16.2 24.4



#18
trans-1,2-Dichloroethene
Concen: 0.483 ug/L
RT: 2.97 min Scan# 585
Delta R.T. -0.00 min
Lab File: VU032216.D
Acq: 22 May 2019 12:32

Tgt Ion: 96 Resp: 7617
Ion Ratio Lower Upper
96 100
61 111.0 90.6 168.3
98 58.1 49.5 91.9

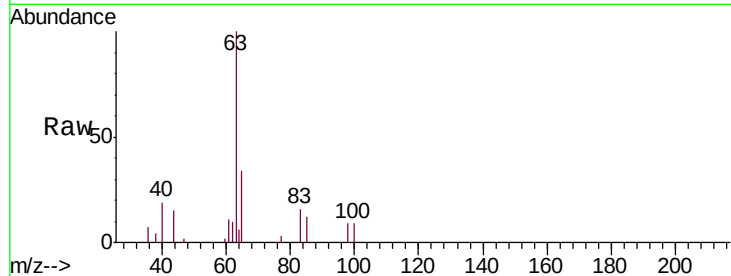




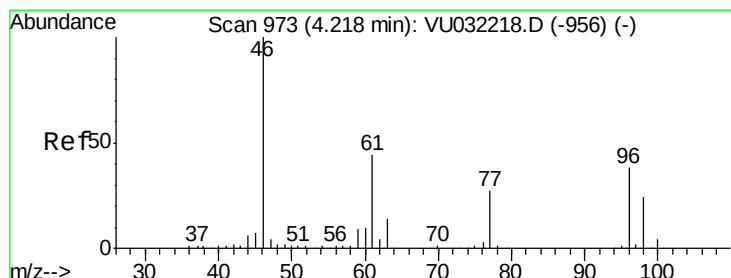
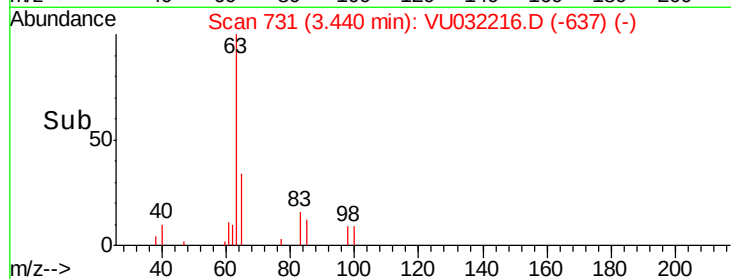
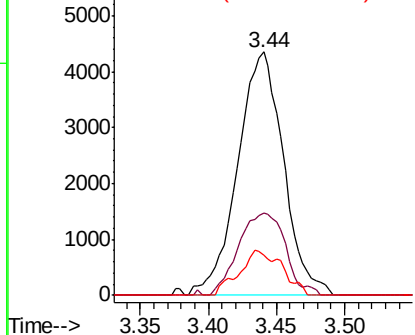
#19
 1,1-Dichloroethane
 Concen: 0.404 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU032216.D
 Acq: 22 May 2019 12:32

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.507

Tgt Ion: 63 Resp: 10165
 Ion Ratio Lower Upper
 63 100
 65 34.0 23.5 43.7
 83 16.2 8.8 16.3

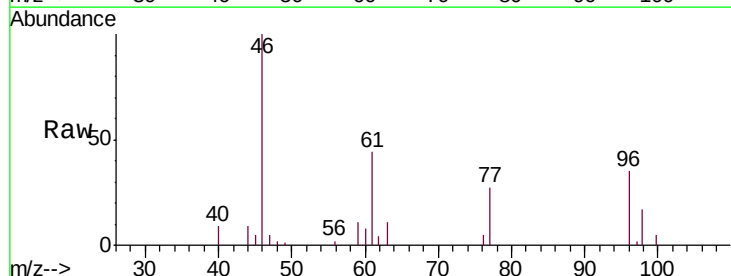


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

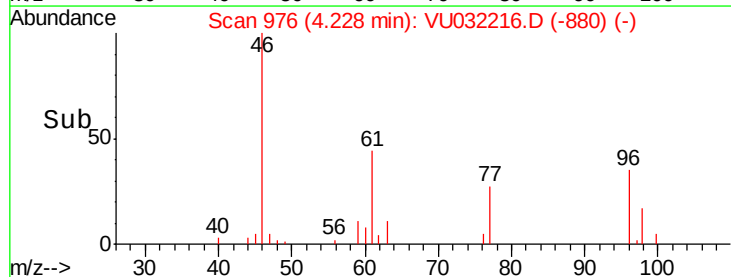
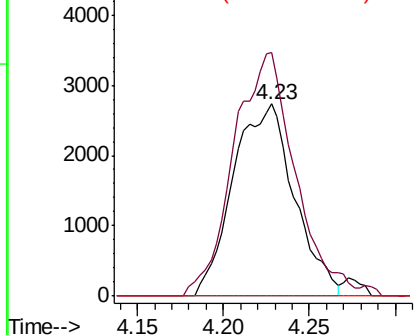


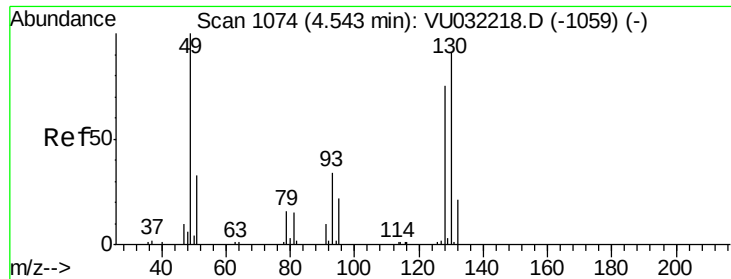
#22
 cis-1,2-Dichloroethene
 Concen: 0.433 ug/L
 RT: 4.23 min Scan# 976
 Delta R.T. 0.01 min
 Lab File: VU032216.D
 Acq: 22 May 2019 12:32

Tgt Ion: 96 Resp: 6757
 Ion Ratio Lower Upper
 96 100
 61 126.9 82.5 153.1
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0





#23

Bromochloromethane

Concen: 0.379 ug/L

RT: 4.55 min Scan# 1076

Delta R.T. 0.01 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.507

Tgt Ion:128 Resp: 2581

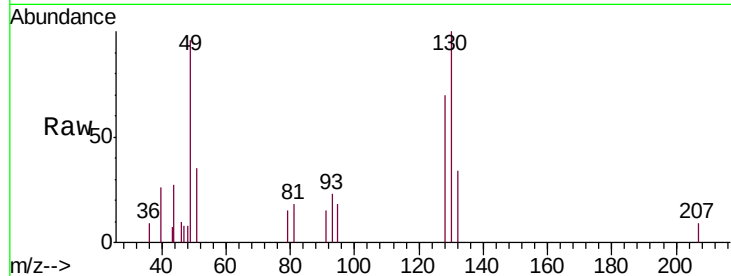
Ion Ratio Lower Upper

128 100

49 137.6 93.9 174.3

130 143.4 85.3 158.3

51 50.0 35.6 53.4

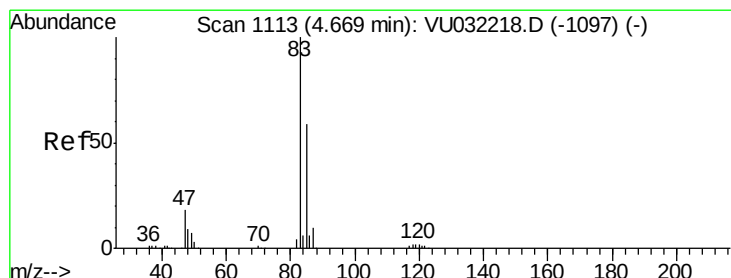
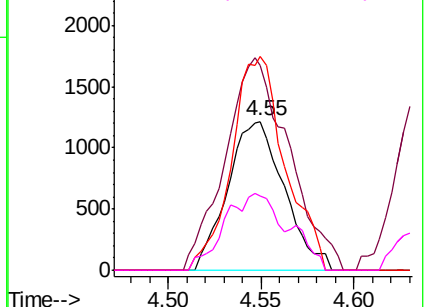
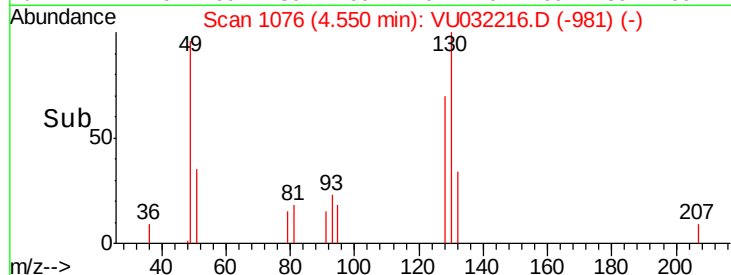


Abundance Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0



#25

Chloroform

Concen: 0.436 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU032216.D

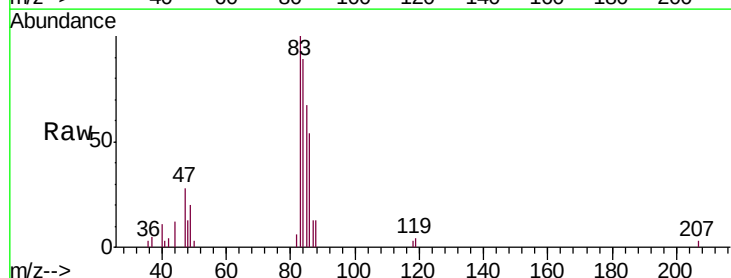
Acq: 22 May 2019 12:32

Tgt Ion: 83 Resp: 11780

Ion Ratio Lower Upper

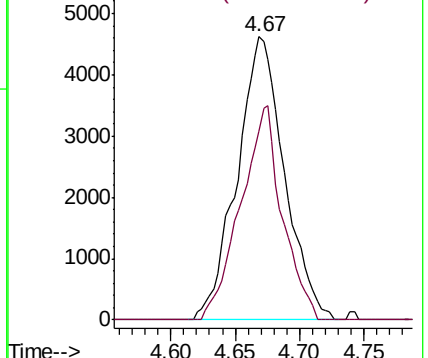
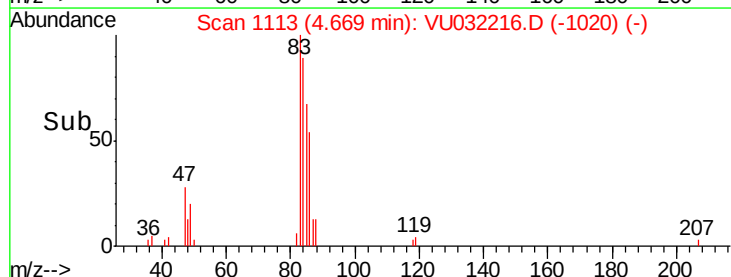
83 100

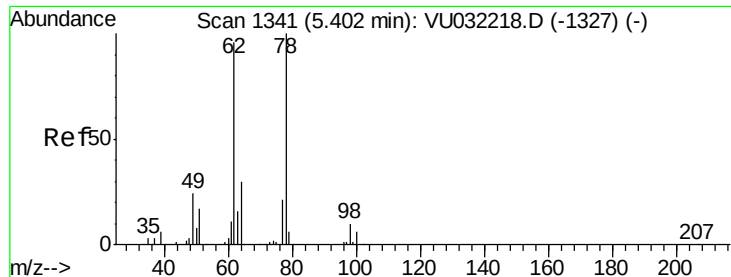
85 66.7 41.6 77.3



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0





#27

1,2-Dichloroethane

Concen: 0.425 ug/L

RT: 5.40 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

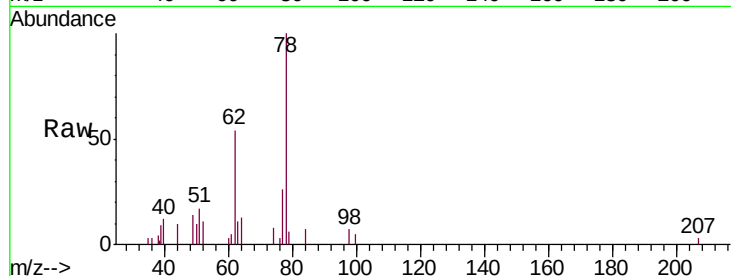
VSTD0.507

Tgt Ion: 62 Resp: 6602

Ion Ratio Lower Upper

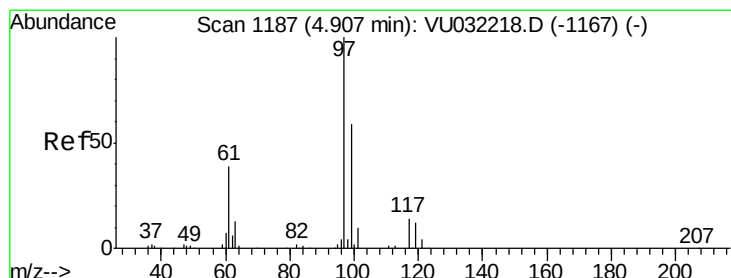
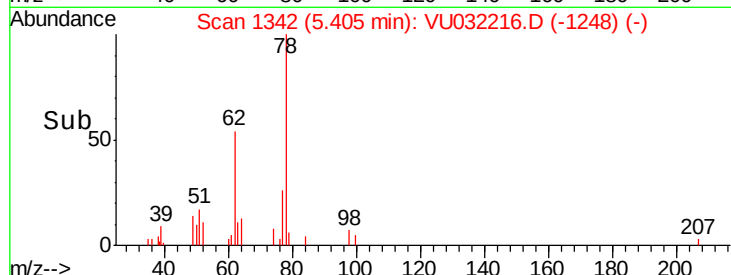
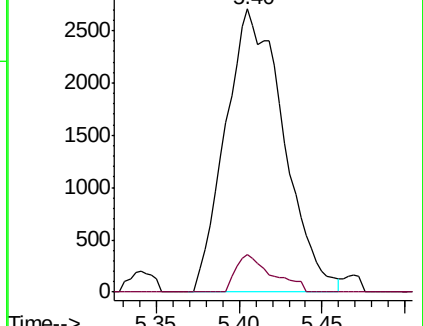
62 100

98 13.3 8.2 12.2#



Abundance Ion 62.00 (61.70 to 62.70): VU032218.D (-1327) (-)

Ion 98.05 (97.75 to 98.75): VU032218.D (-1327) (-)



#29

1,1,1-Trichloroethane

Concen: 0.447 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

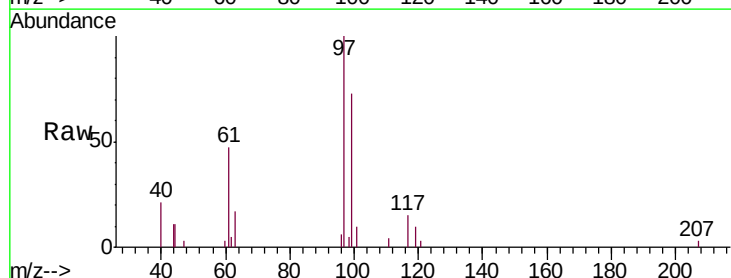
Tgt Ion: 97 Resp: 9664

Ion Ratio Lower Upper

97 100

99 71.8 50.3 75.5

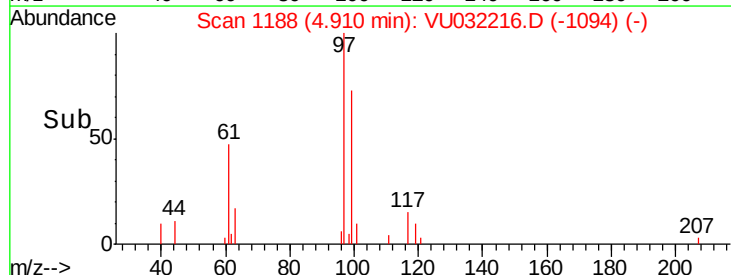
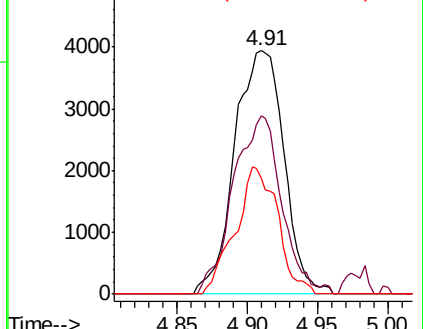
61 44.8 34.1 51.1

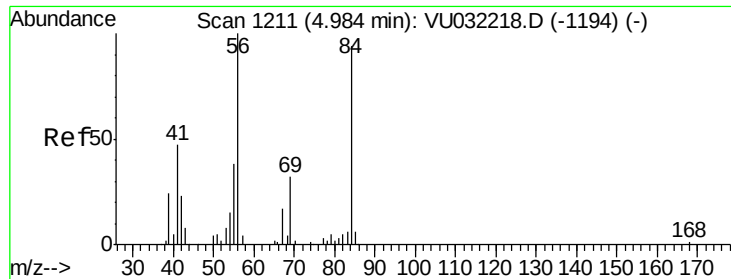


Abundance Ion 96.95 (96.65 to 97.65): VU032218.D (-1167) (-)

Ion 99.05 (98.75 to 99.75): VU032218.D (-1167) (-)

Ion 61.05 (60.75 to 61.75): VU032218.D (-1167) (-)

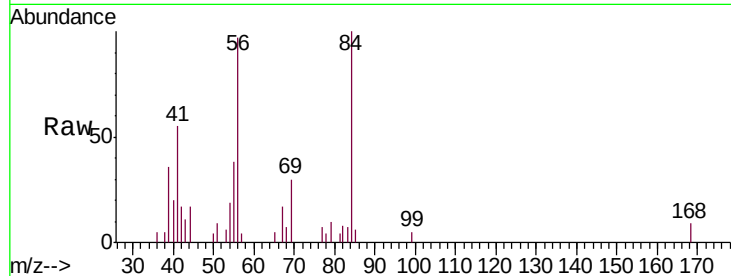




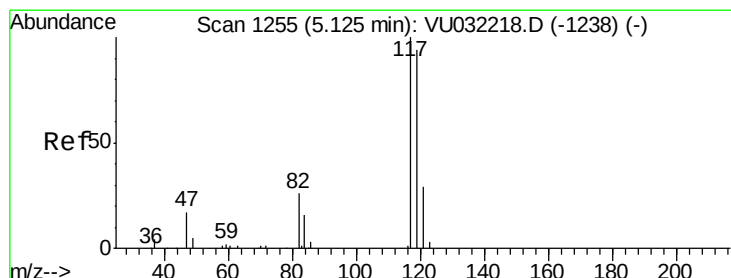
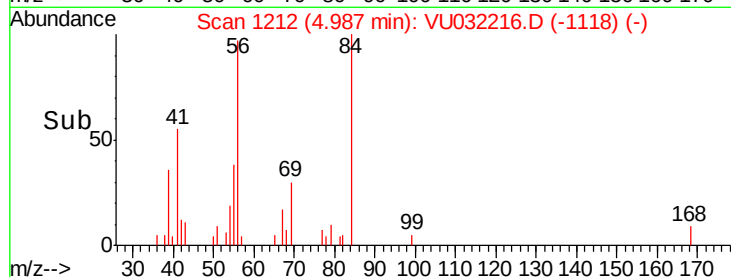
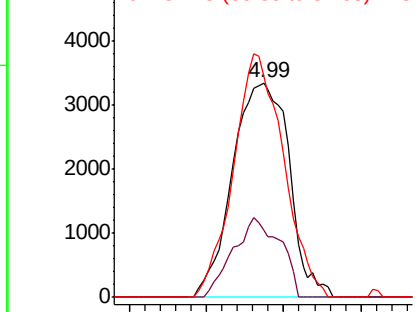
#30
Cyclohexane
Concen: 0.428 ug/L
RT: 4.99 min Scan# 1212
Delta R.T. 0.00 min
Lab File: VU032216.D
Acq: 22 May 2019 12:32

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.507

Tgt Ion: 56 Resp: 8492
Ion Ratio Lower Upper
56 100
69 30.8 26.6 39.8
84 100.4 75.0 112.6

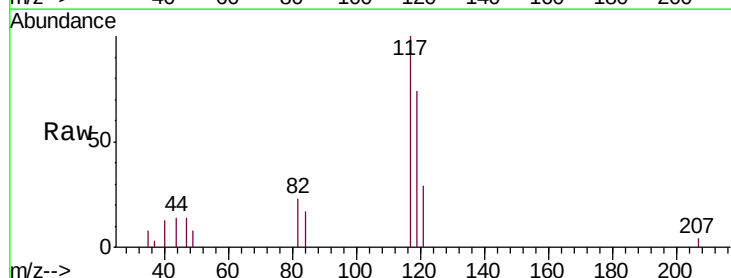


Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0

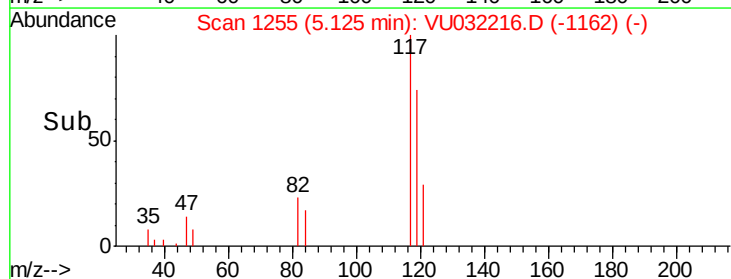
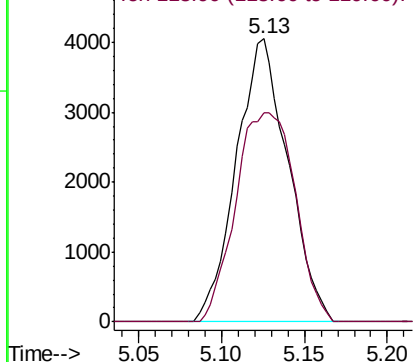


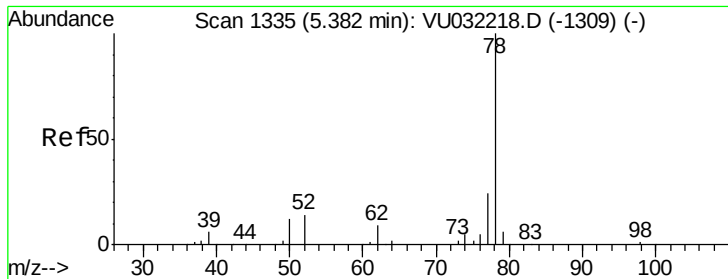
#31
Carbon tetrachloride
Concen: 0.476 ug/L
RT: 5.13 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VU032216.D
Acq: 22 May 2019 12:32

Tgt Ion: 117 Resp: 8769
Ion Ratio Lower Upper
117 100
119 85.4 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V





#33

Benzene

Concen: 0.416 ug/L

RT: 5.39 min Scan# 1336

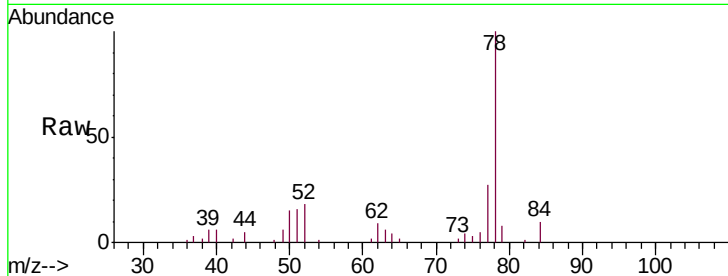
Delta R.T. 0.00 min

Lab File: VU032216.D

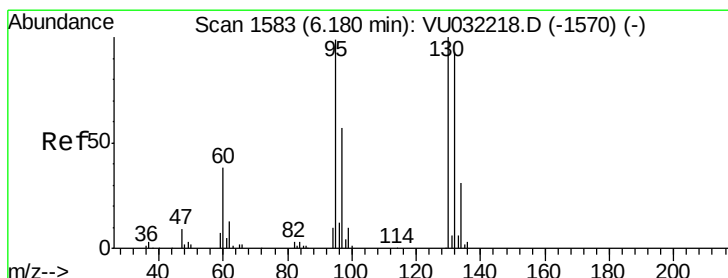
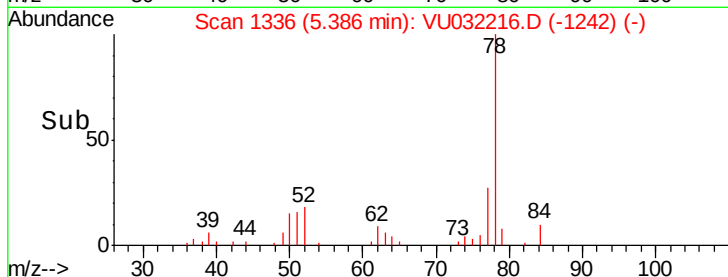
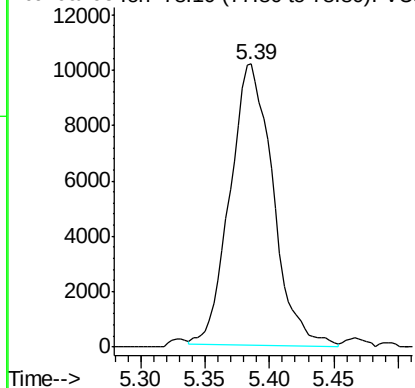
Acq: 22 May 2019 12:32

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.507

Tgt Ion: 78 Resp: 23486



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.436 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Tgt Ion: 95 Resp: 6662

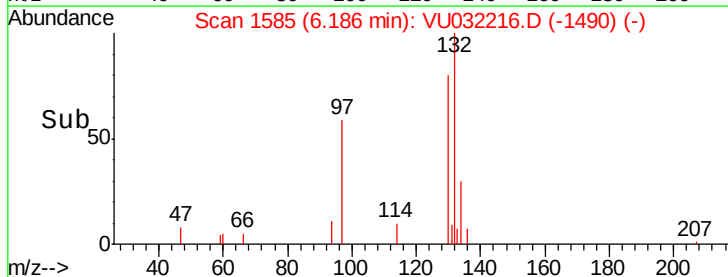
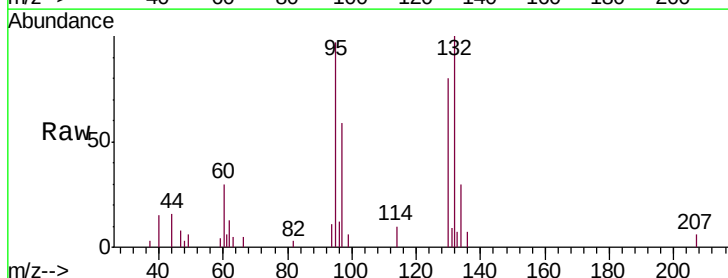
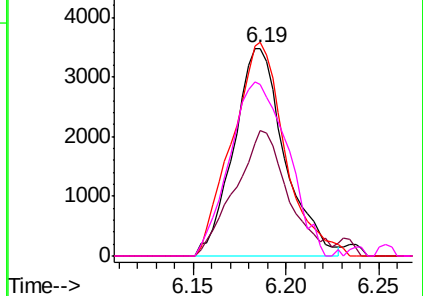
Ion	Ratio	Lower	Upper
95	100		
97	60.5	39.9	74.1
132	102.9	65.9	122.5
130	82.8	70.6	131.2

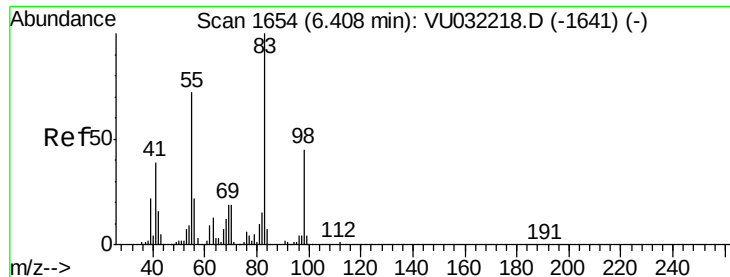
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

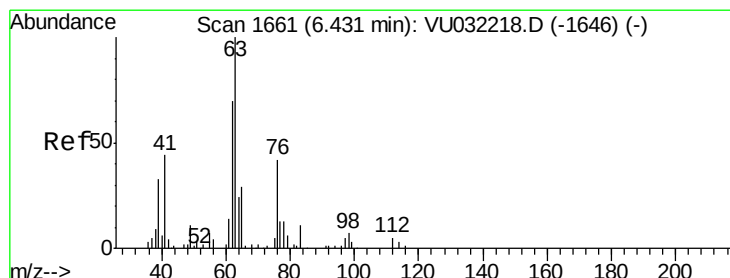
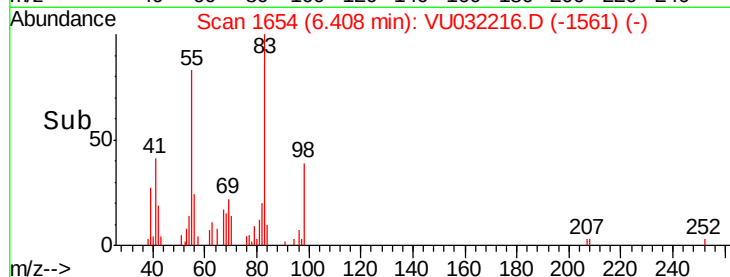
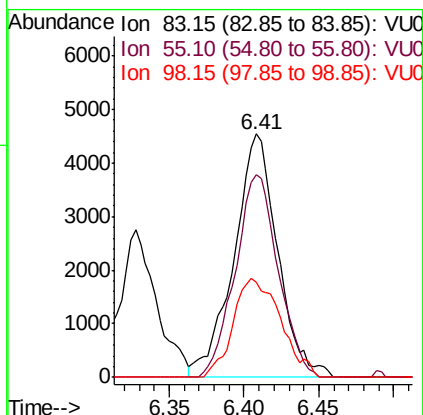
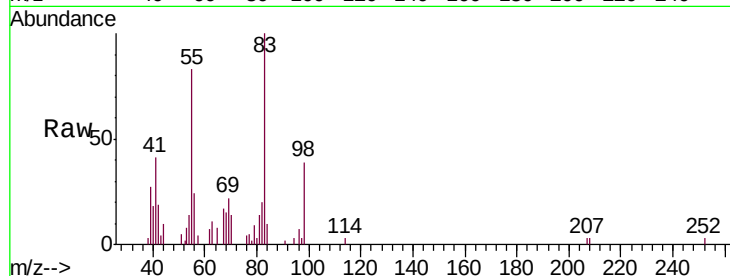




#35
Methylcyclohexane
Concen: 0.417 ug/L
RT: 6.41 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VU032216.D
Acq: 22 May 2019 12:32

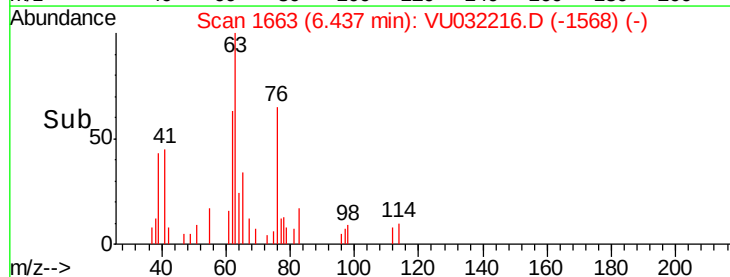
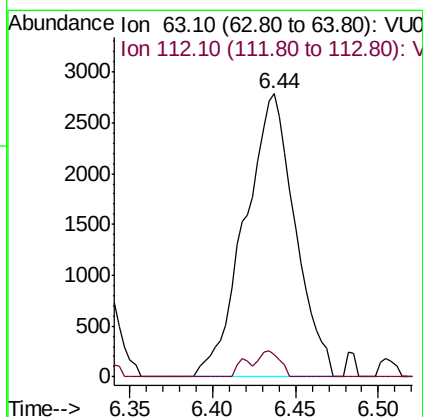
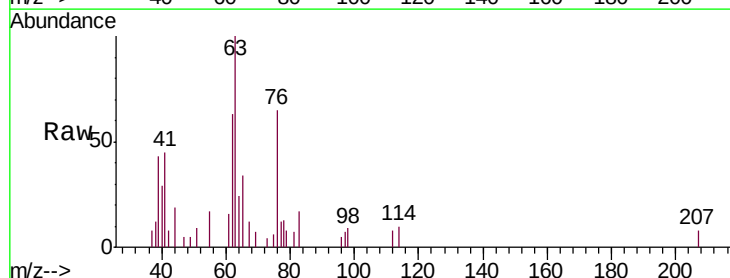
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.507

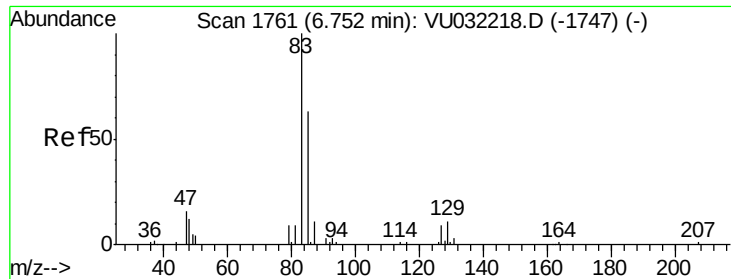
Tgt Ion: 83 Resp: 9238
Ion Ratio Lower Upper
83 100
55 81.8 59.7 89.5
98 44.1 37.5 56.3



#37
1,2-Dichloropropane
Concen: 0.427 ug/L
RT: 6.44 min Scan# 1663
Delta R.T. 0.01 min
Lab File: VU032216.D
Acq: 22 May 2019 12:32

Tgt Ion: 63 Resp: 5885
Ion Ratio Lower Upper
63 100
112 3.8 3.8 5.8#





#38

Bromodichloromethane

Concen: 0.440 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.507

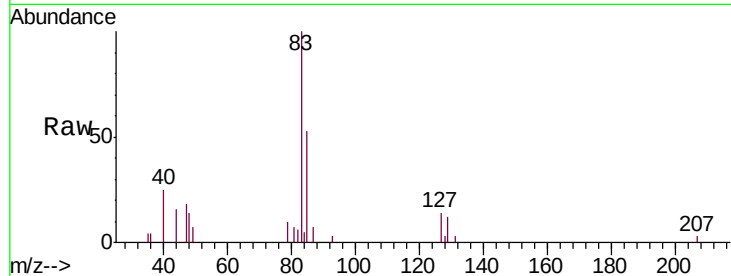
Tgt Ion: 83 Resp: 7771

Ion Ratio Lower Upper

83 100

85 53.2 44.4 82.4

127 13.7 7.0 10.6#

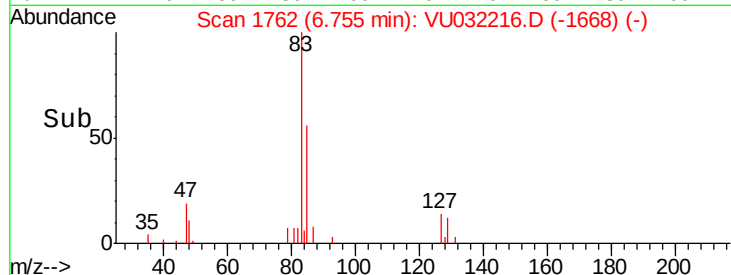


Abundance Ion 82.95 (82.65 to 83.65): VU032218.D (-1747) (-)

Ion 85.00 (84.70 to 85.70): VU032218.D (-1747) (-)

Ion 126.90 (126.60 to 127.60): VU032218.D (-1747) (-)

Time-->



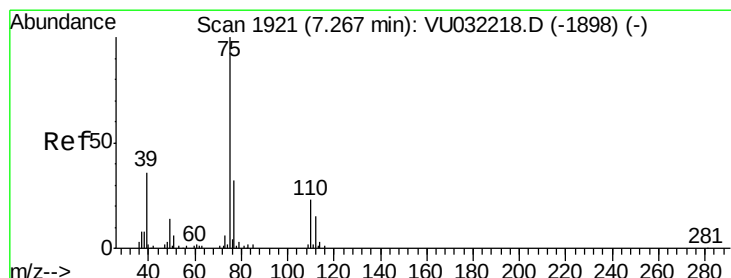
Abundance

Ion 82.95 (82.65 to 83.65): VU032218.D (-1747) (-)

Ion 85.00 (84.70 to 85.70): VU032218.D (-1747) (-)

Ion 126.90 (126.60 to 127.60): VU032218.D (-1747) (-)

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.400 ug/L

RT: 7.28 min Scan# 1925

Delta R.T. 0.01 min

Lab File: VU032216.D

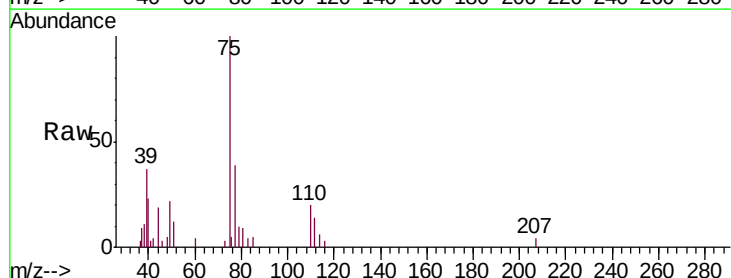
Acq: 22 May 2019 12:32

Tgt Ion: 75 Resp: 7666

Ion Ratio Lower Upper

75 100

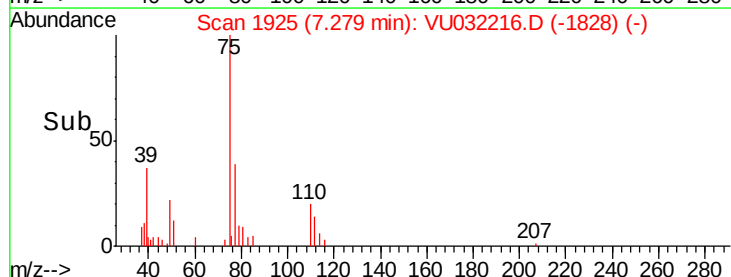
77 39.2 22.6 42.0



Abundance Ion 75.05 (74.75 to 75.75): VU032218.D (-1898) (-)

Ion 77.05 (76.75 to 77.75): VU032218.D (-1898) (-)

Time-->

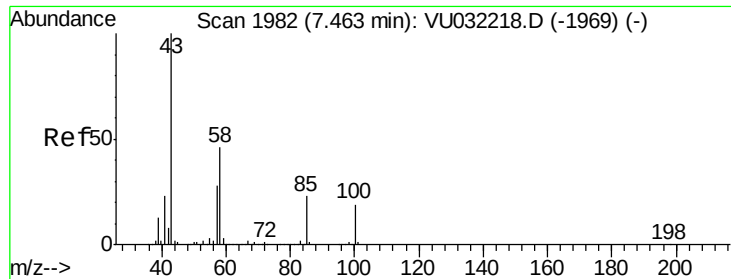


Abundance

Ion 75.05 (74.75 to 75.75): VU032218.D (-1898) (-)

Ion 77.05 (76.75 to 77.75): VU032218.D (-1898) (-)

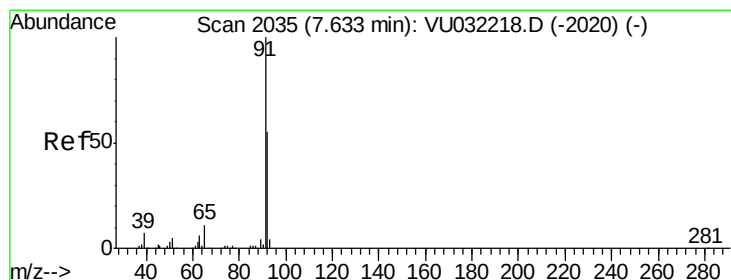
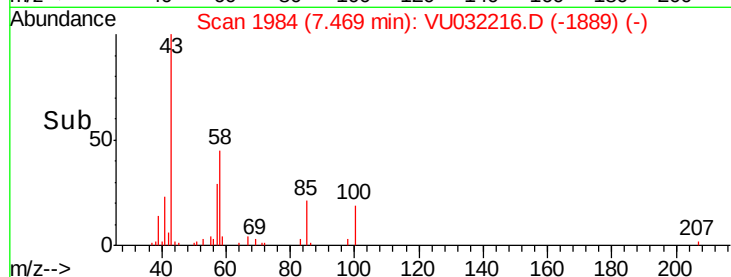
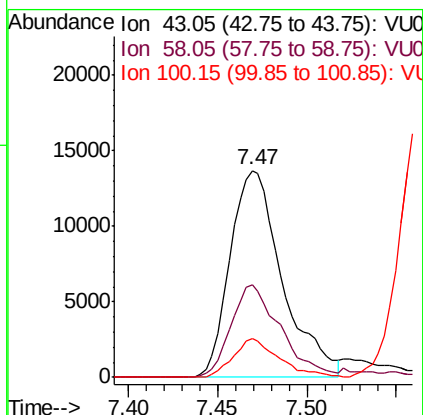
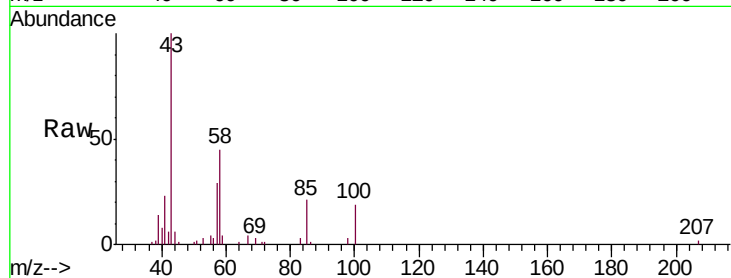
Time-->



#40
 4-Methyl-2-pentanone
 Concen: 4.306 ug/L
 RT: 7.47 min Scan# 1984
 Delta R.T. 0.01 min
 Lab File: VU032216.D
 Acq: 22 May 2019 12:32

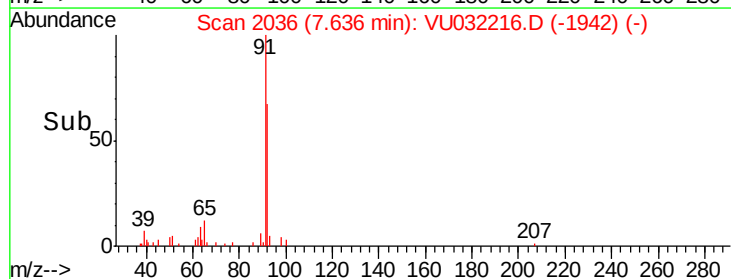
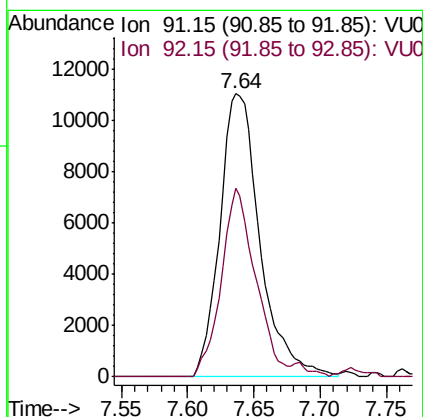
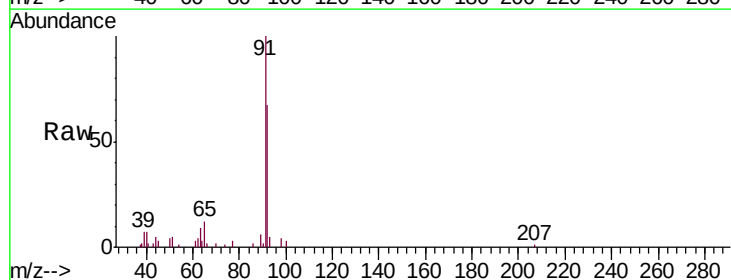
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.507

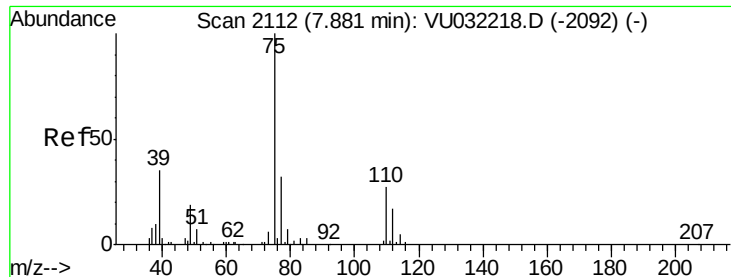
Tgt Ion: 43 Resp: 27899
 Ion Ratio Lower Upper
 43 100
 58 42.4 35.8 53.6
 100 16.4 14.6 22.0



#42
 Toluene
 Concen: 0.390 ug/L
 RT: 7.64 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VU032216.D
 Acq: 22 May 2019 12:32

Tgt Ion: 91 Resp: 23250
 Ion Ratio Lower Upper
 91 100
 92 66.5 38.5 71.5





#44

trans-1,3-Dichloropropene

Concen: 0.388 ug/L

RT: 7.89 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

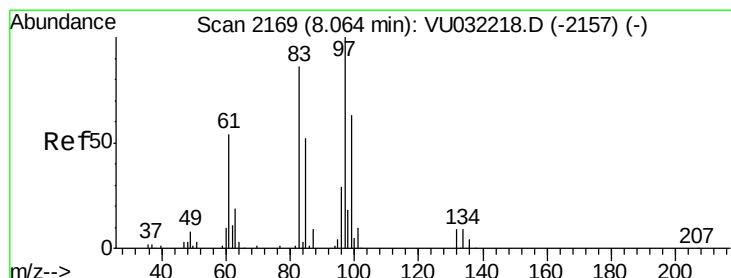
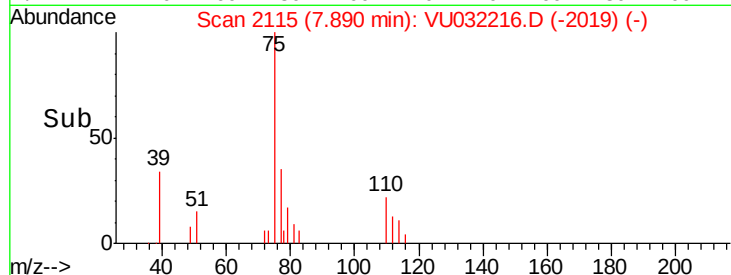
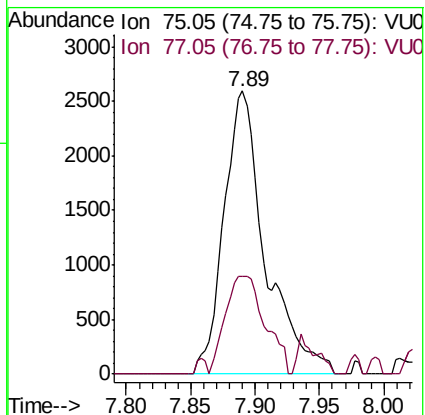
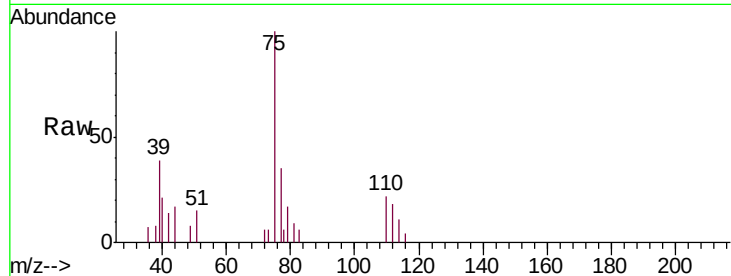
VSTD0.507

Tgt Ion: 75 Resp: 5785

Ion Ratio Lower Upper

75 100

77 34.7 22.5 41.9



#45

1,1,2-Trichloroethane

Concen: 0.480 ug/L

RT: 8.07 min Scan# 2171

Delta R.T. 0.01 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Tgt Ion: 97 Resp: 4901

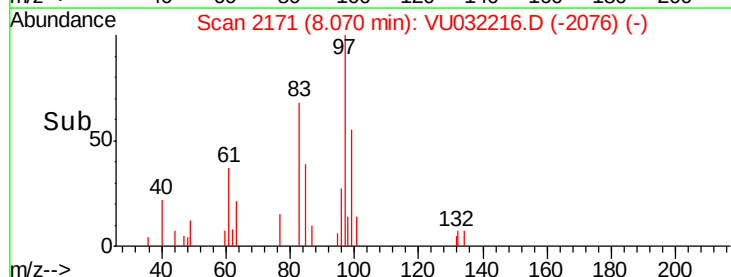
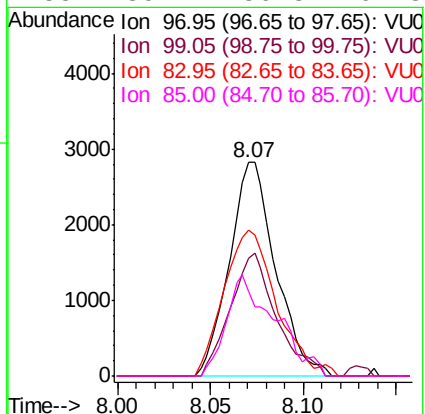
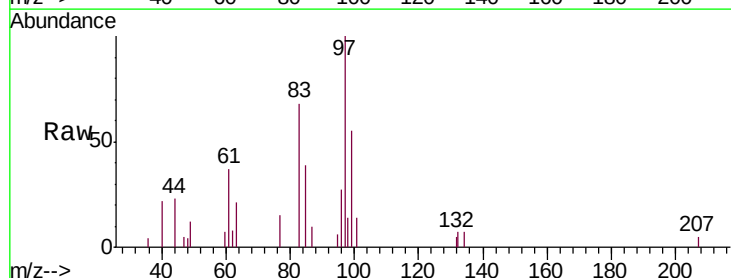
Ion Ratio Lower Upper

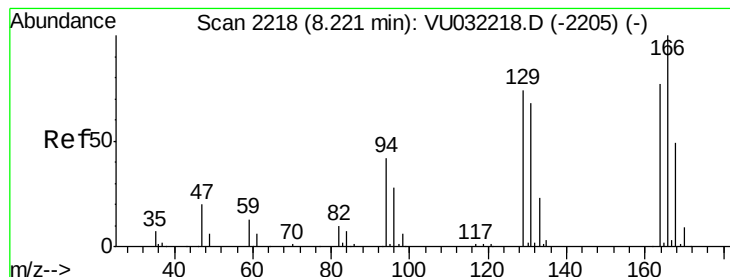
97 100

99 55.2 44.2 82.0

83 68.1 60.5 112.3

85 39.4 36.3 67.3





#47

Tetrachloroethene

Concen: 0.474 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampled :

VSTD0.507

Tgt Ion: 164 Resp: 5490

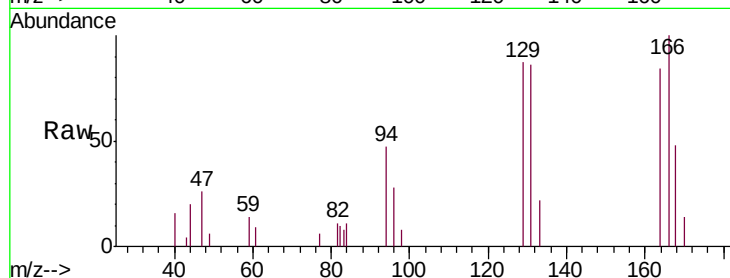
Ion Ratio Lower Upper

164 100

129 103.9 67.1 124.7

131 103.0 62.2 115.4

166 119.5 90.9 168.9

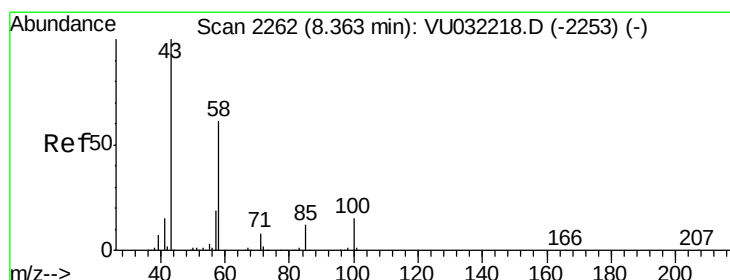
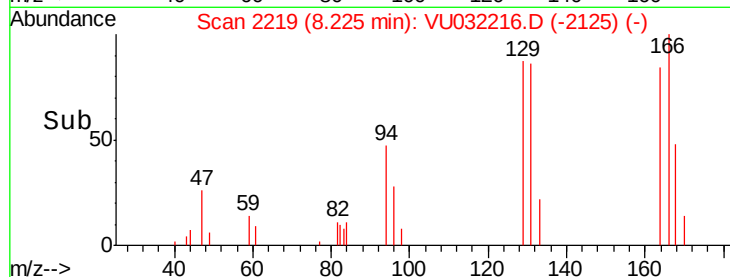
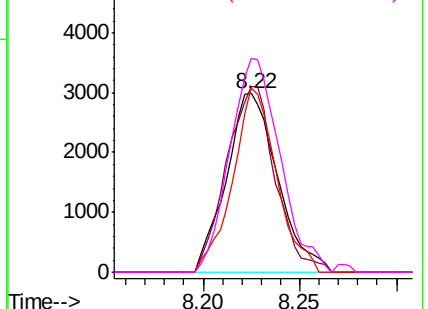


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 4.383 ug/L

RT: 8.37 min Scan# 2265

Delta R.T. 0.01 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Tgt Ion: 43 Resp: 21915

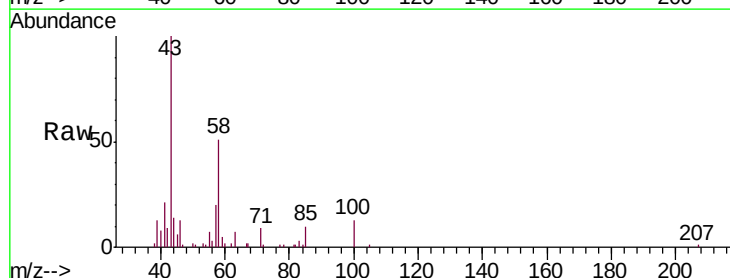
Ion Ratio Lower Upper

43 100

58 48.0 49.7 74.5#

57 22.1 17.1 25.7

100 14.5 11.6 17.4

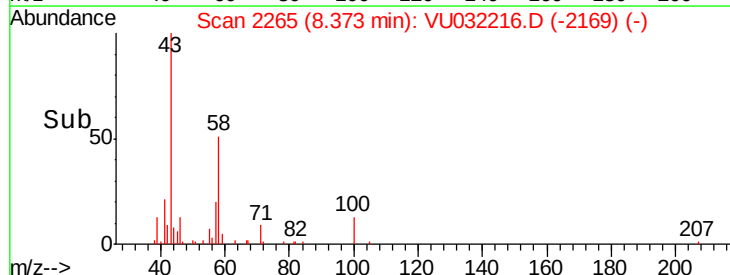
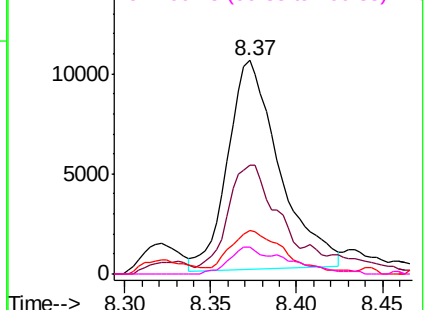


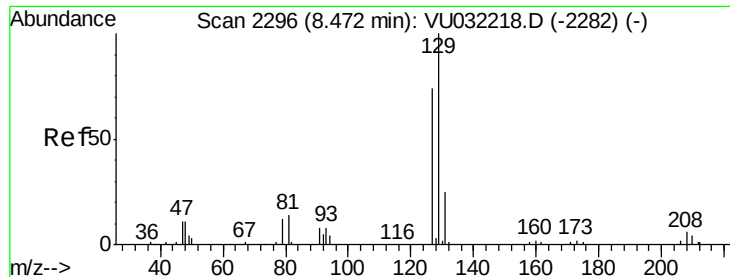
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.404 ug/L

RT: 8.47 min Scan# 2296

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

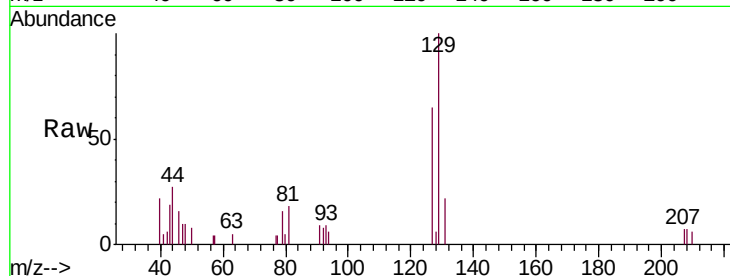
VSTD0.507

Tgt Ion:129 Resp: 4795

Ion Ratio Lower Upper

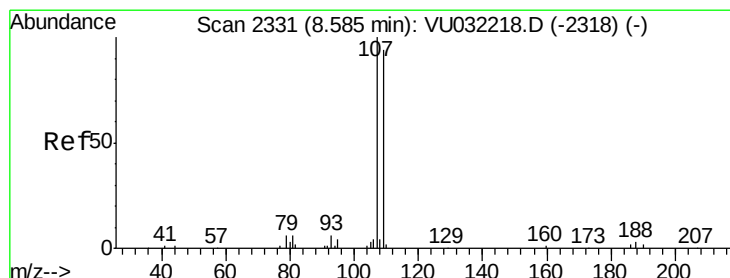
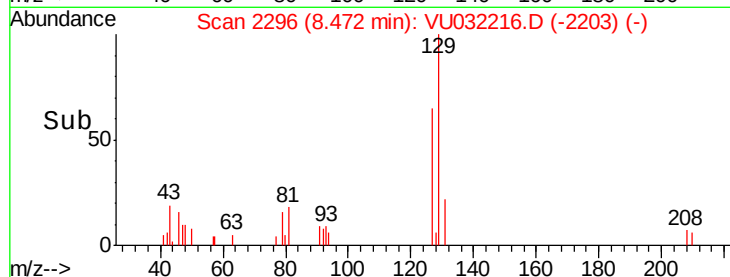
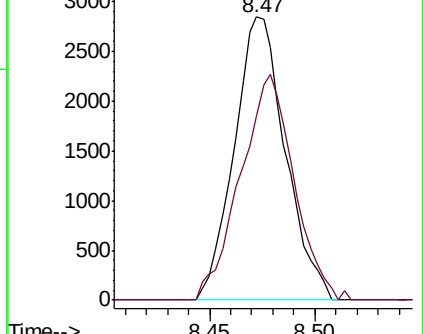
129 100

127 64.8 51.7 95.9



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#50

1,2-Dibromoethane

Concen: 0.429 ug/L

RT: 8.59 min Scan# 2332

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

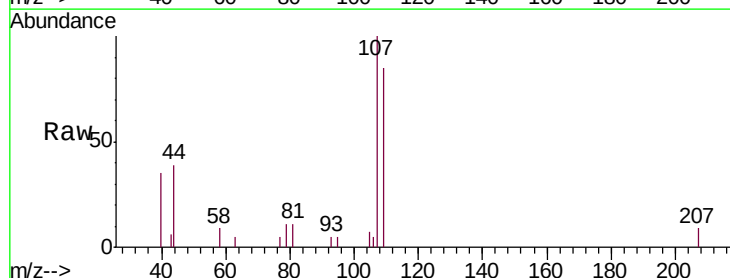
Tgt Ion:107 Resp: 4194

Ion Ratio Lower Upper

107 100

109 84.8 65.8 122.2

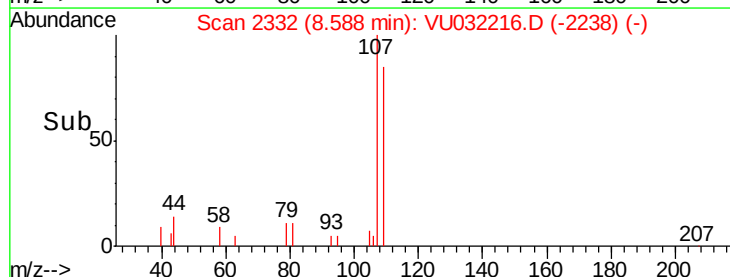
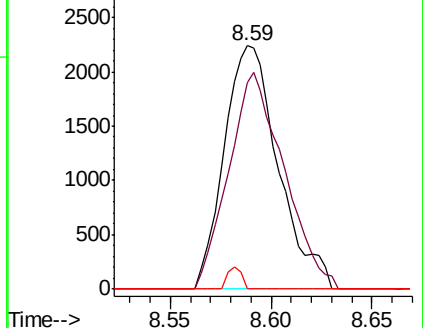
188 0.0 2.6 3.8#

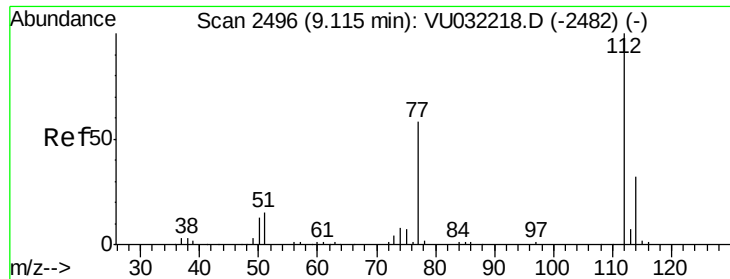


Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V





#51

Chlorobenzene

Concen: 0.431 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.507

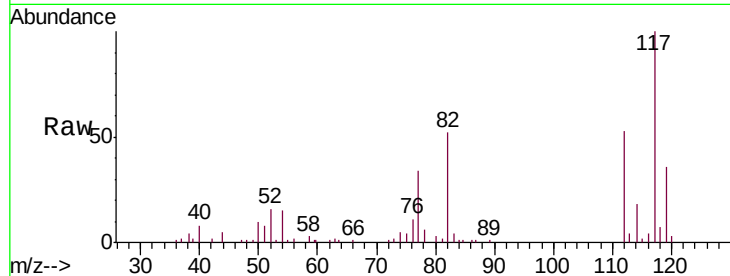
Tgt Ion: 112 Resp: 16263

Ion Ratio Lower Upper

112 100

114 33.3 22.6 42.0

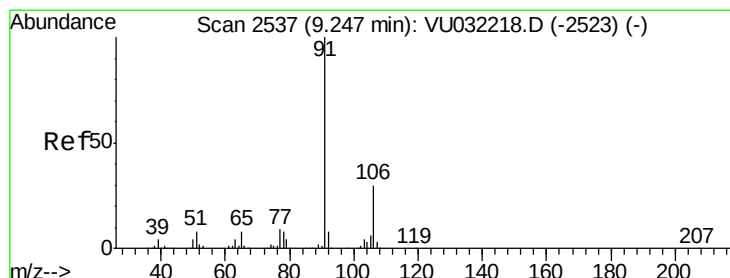
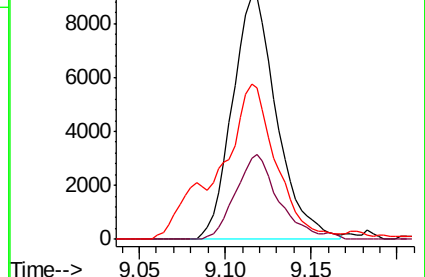
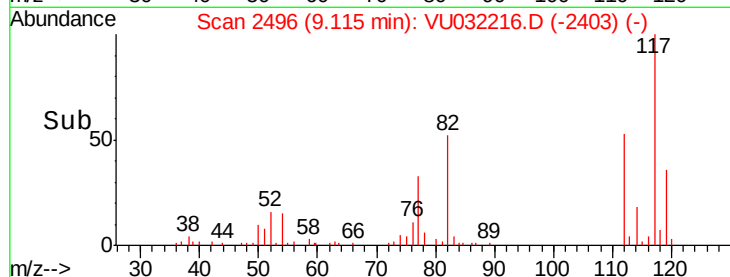
77 63.9 46.8 70.2



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): V



#52

Ethylbenzene

Concen: 0.404 ug/L

RT: 9.25 min Scan# 2538

Delta R.T. 0.00 min

Lab File: VU032216.D

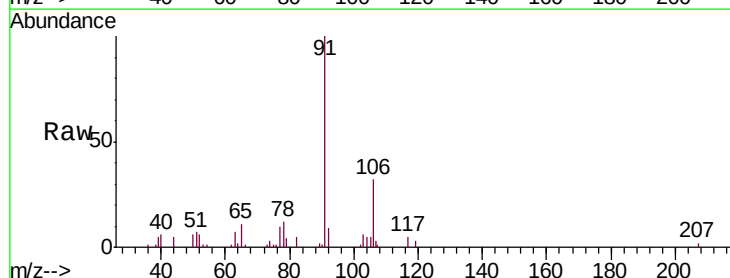
Acq: 22 May 2019 12:32

Tgt Ion: 91 Resp: 24039

Ion Ratio Lower Upper

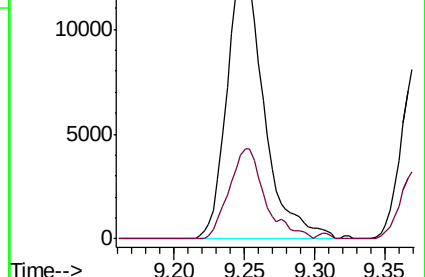
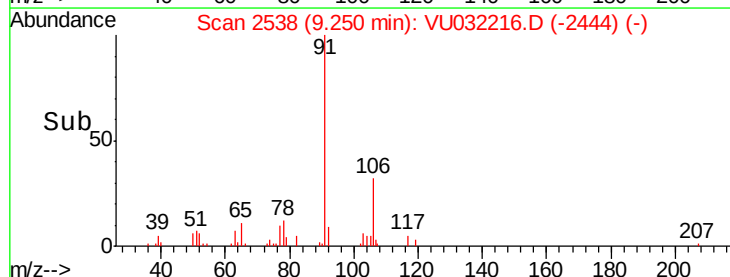
91 100

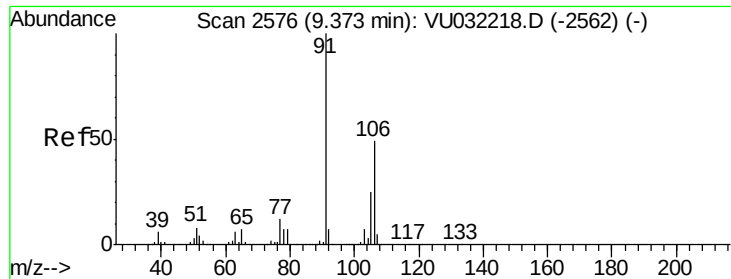
106 32.1 20.9 38.9



Abundance Ion 91.15 (90.85 to 91.85): V

Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 0.335 ug/L

RT: 9.38 min Scan# 2578

Delta R.T. 0.01 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

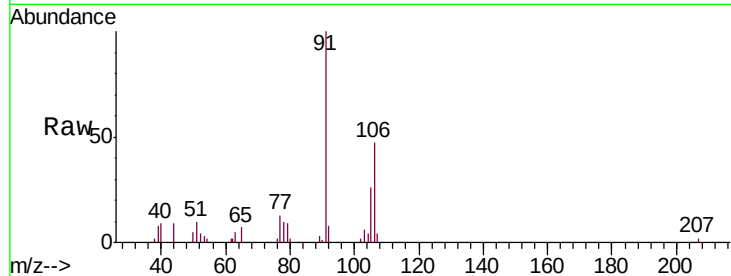
VSTD0.507

Tgt Ion:106 Resp: 7604

Ion Ratio Lower Upper

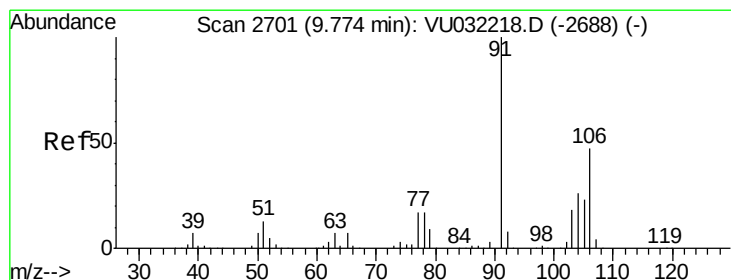
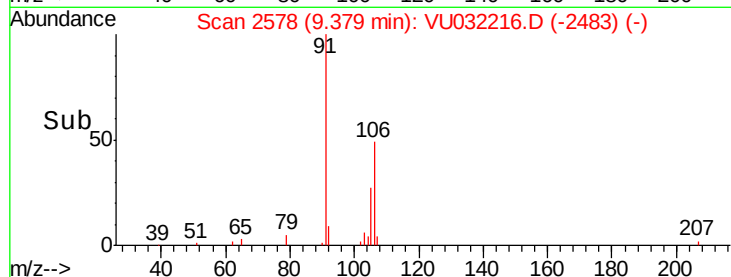
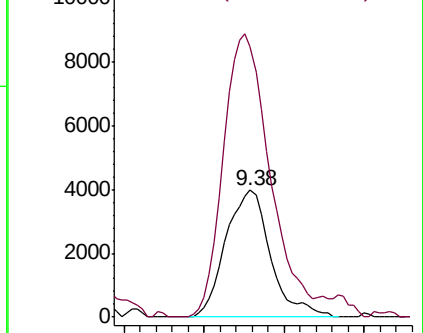
106 100

91 212.4 143.9 267.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.375 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU032216.D

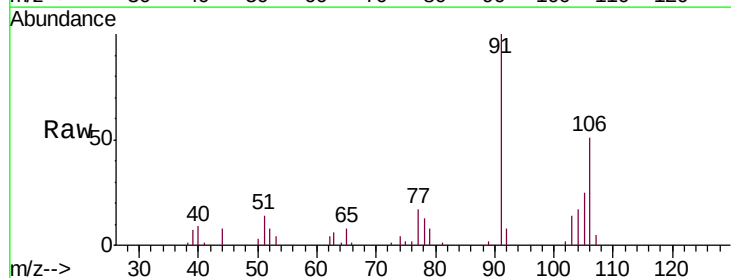
Acq: 22 May 2019 12:32

Tgt Ion:106 Resp: 8177

Ion Ratio Lower Upper

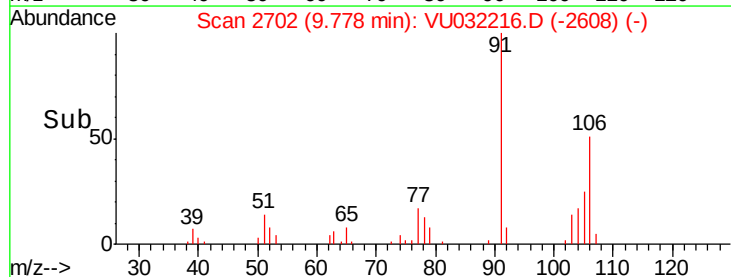
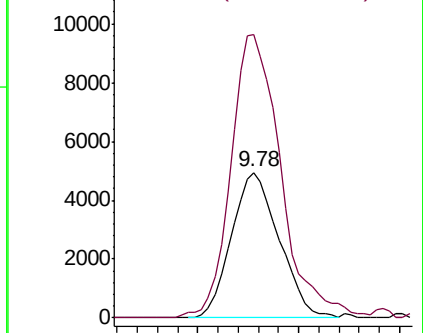
106 100

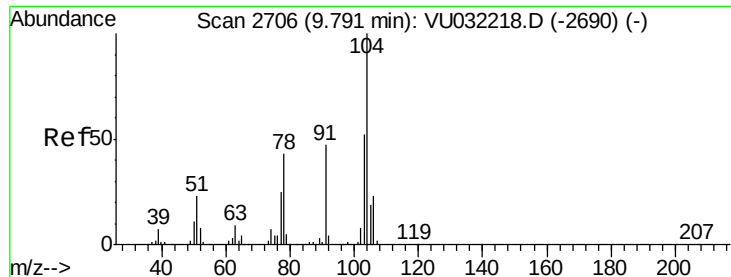
91 194.3 147.8 274.4



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#55

Styrene

Concen: 0.347 ug/L

RT: 9.80 min Scan# 2708

Delta R.T. 0.01 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

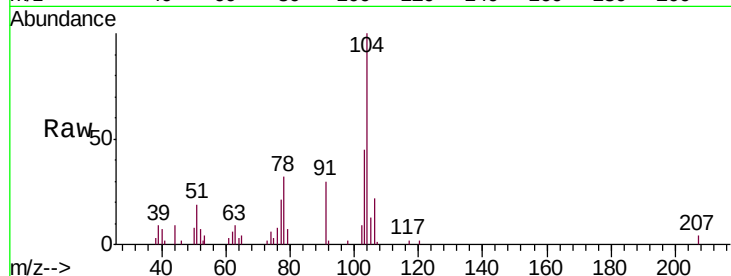
VSTD0.507

Tgt Ion:104 Resp: 12791

Ion Ratio Lower Upper

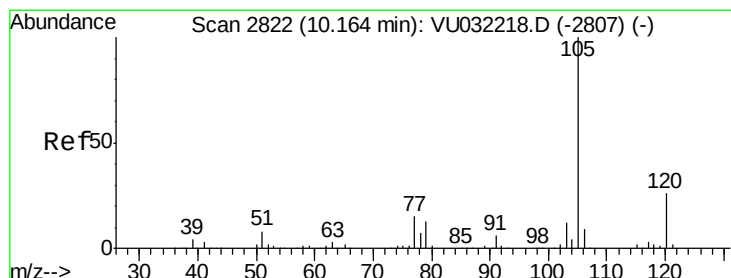
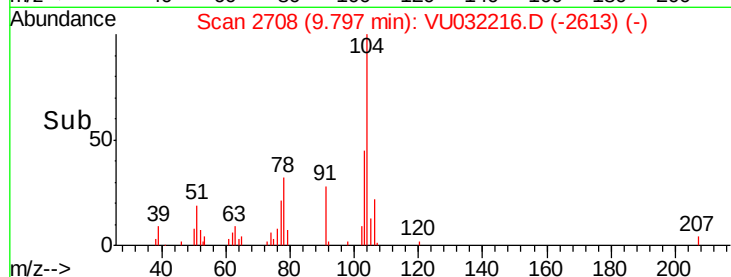
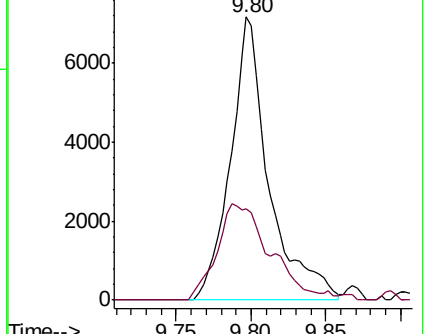
104 100

78 32.1 30.3 56.3



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0



#56

Isopropylbenzene

Concen: 0.374 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

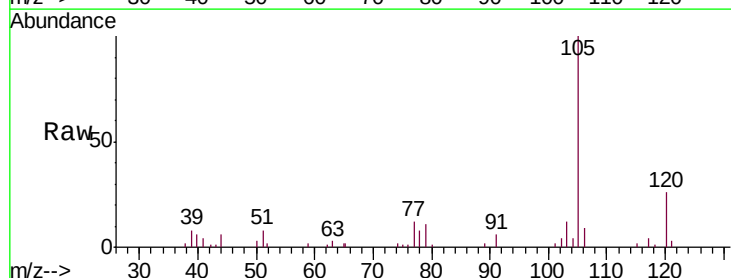
Tgt Ion:105 Resp: 20776

Ion Ratio Lower Upper

105 100

120 27.3 21.0 31.6

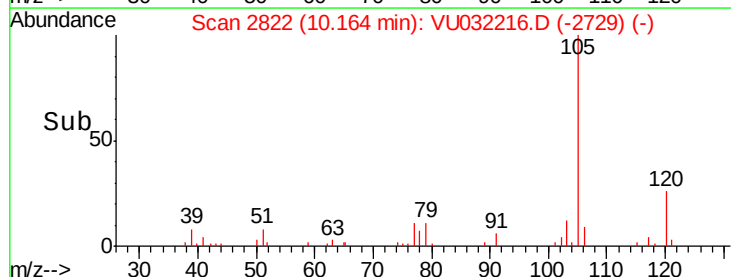
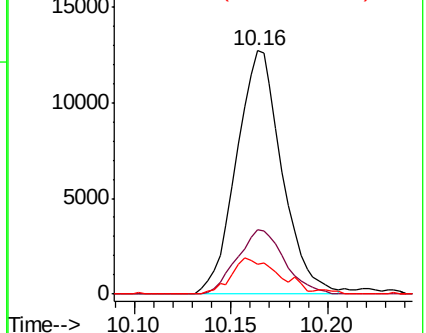
77 15.5 11.9 17.9

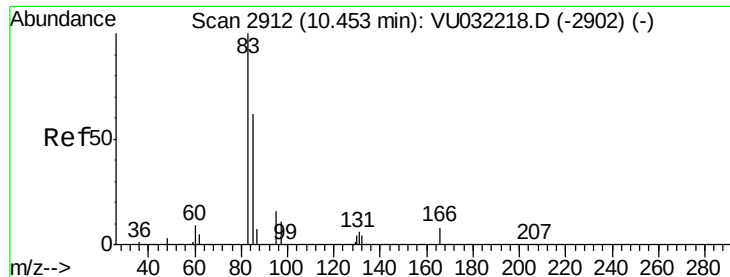


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU0





#58

1,1,2,2-Tetrachloroethane

Concen: 0.438 ug/L

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.507

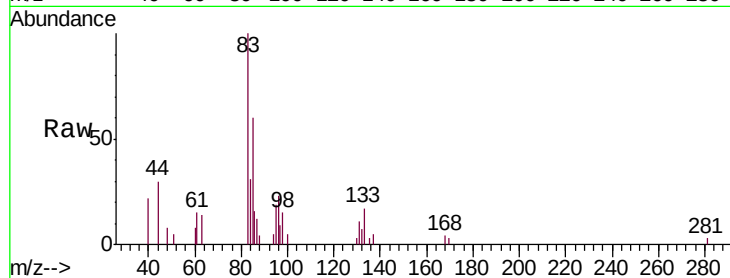
Tgt Ion: 83 Resp: 5546

Ion Ratio Lower Upper

83 100

85 59.5 46.5 86.3

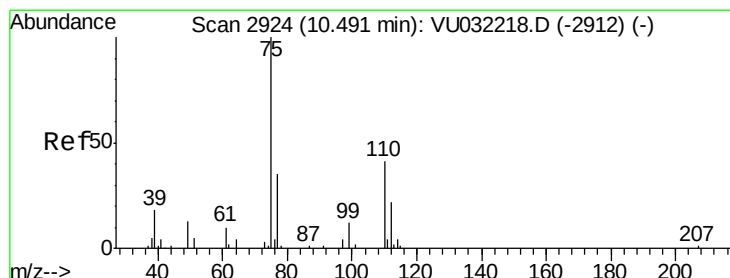
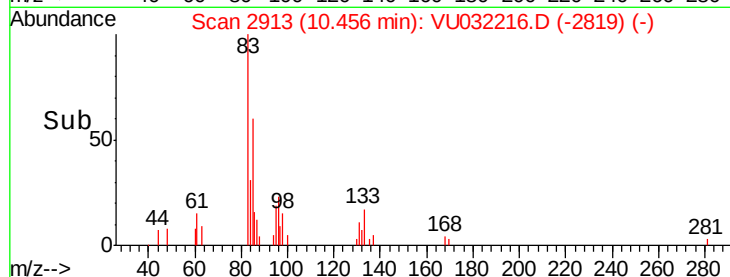
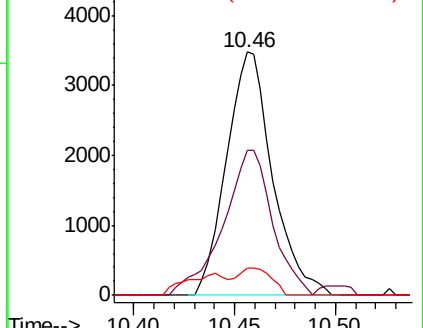
131 11.1 7.8 11.6



Abundance Ion 82.95 (82.65 to 83.65): VU032218.D (-2902) (-)

Ion 85.00 (84.70 to 85.70): VU032218.D (-2902) (-)

Ion 130.95 (130.65 to 131.65): VU032218.D (-2902) (-)



#59

1,2,3-Trichloropropane

Concen: 0.455 ug/L

RT: 10.50 min Scan# 2926

Delta R.T. 0.01 min

Lab File: VU032216.D

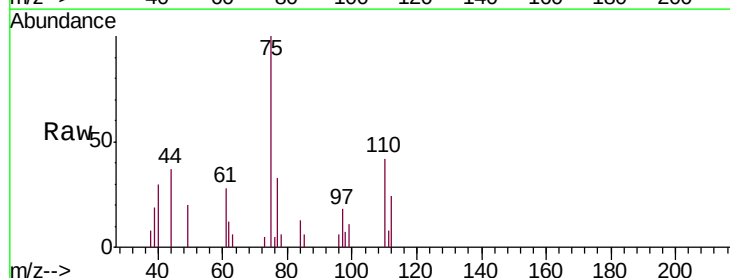
Acq: 22 May 2019 12:32

Tgt Ion: 75 Resp: 3990

Ion Ratio Lower Upper

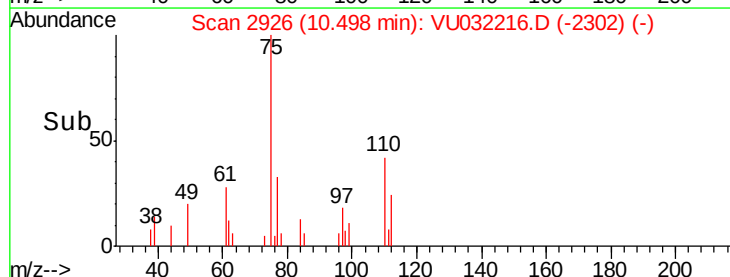
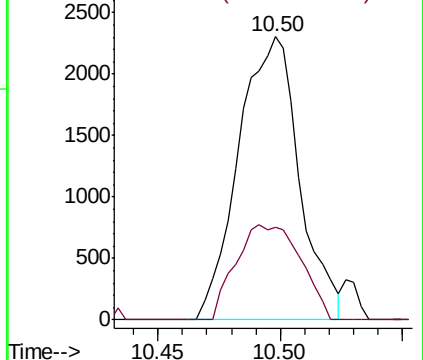
75 100

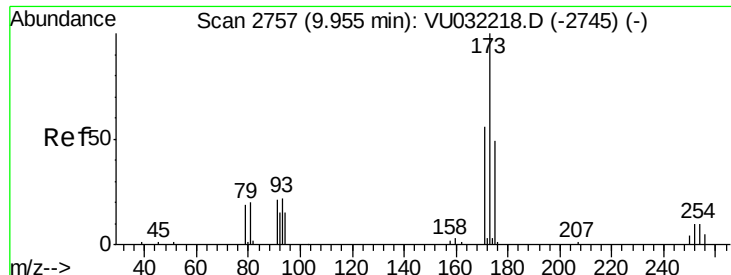
77 35.8 28.2 42.4



Abundance Ion 75.00 (74.70 to 75.70): VU032218.D (-2912) (-)

Ion 77.00 (76.70 to 77.70): VU032218.D (-2912) (-)





#61

Bromoform

Concen: 0.498 ug/L

RT: 9.96 min Scan# 2759

Delta R.T. 0.01 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.507

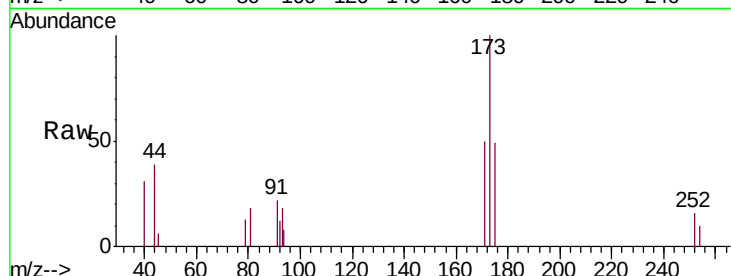
Tgt Ion:173 Resp: 2996

Ion Ratio Lower Upper

173 100

175 55.0 40.1 60.1

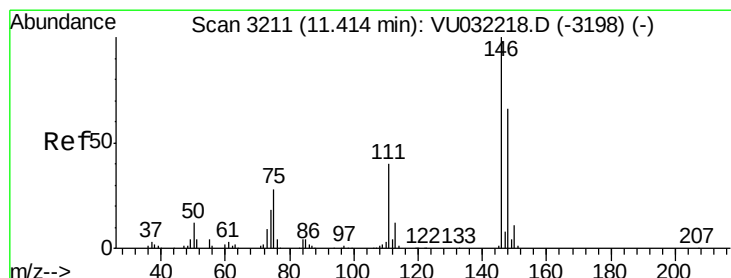
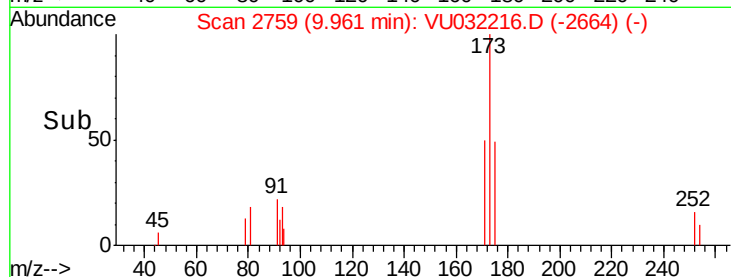
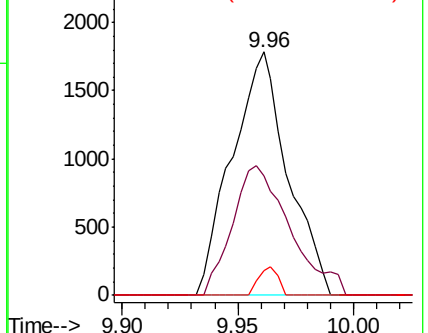
254 4.1 7.8 11.6#



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V



#62

1,3-Dichlorobenzene

Concen: 0.506 ug/L

RT: 11.42 min Scan# 3212

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

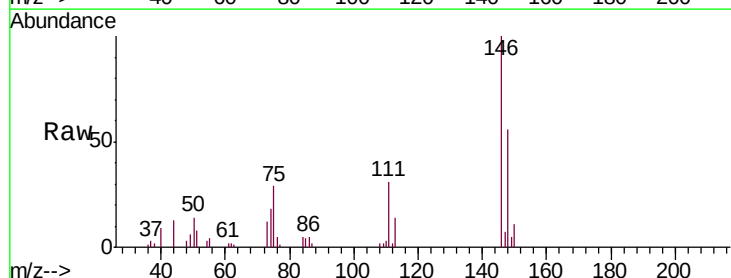
Tgt Ion:146 Resp: 12653

Ion Ratio Lower Upper

146 100

111 31.4 28.2 52.4

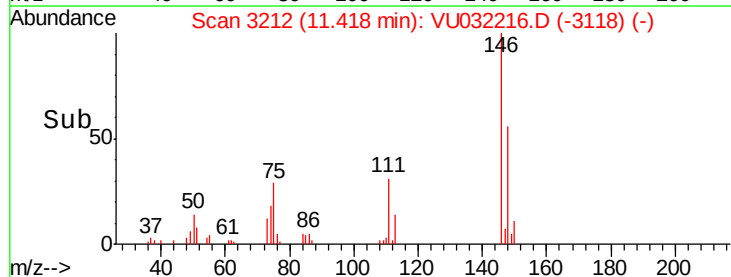
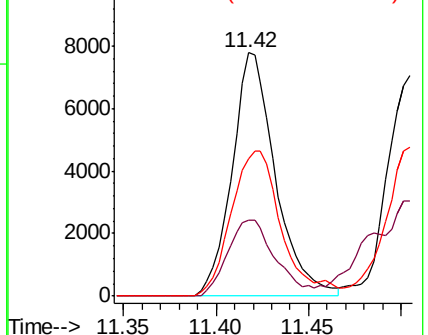
148 56.4 46.0 85.4

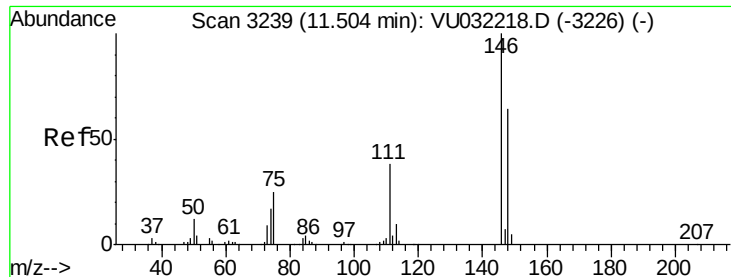


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

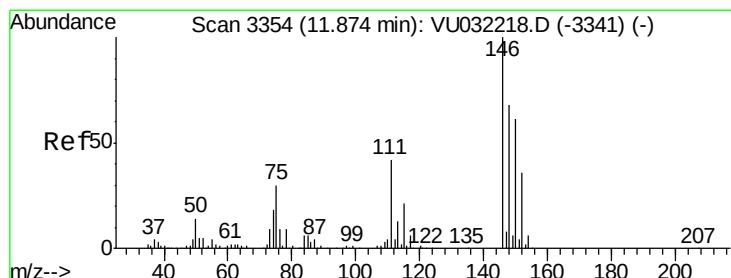
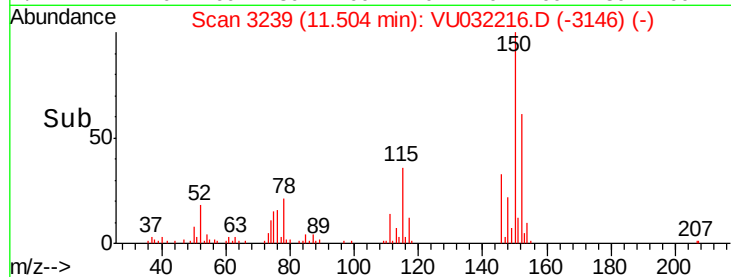
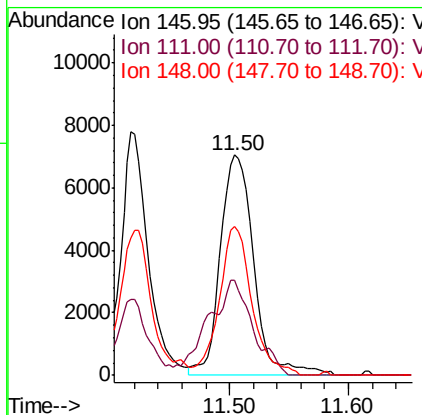
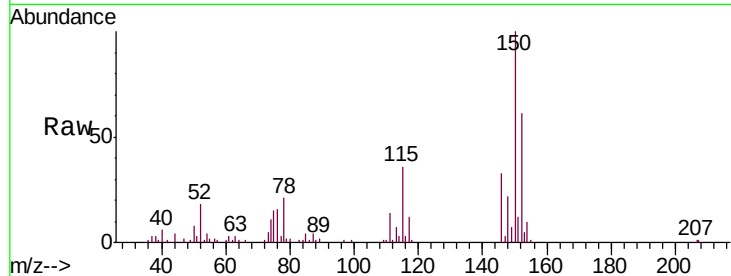




#63
 1,4-Dichlorobenzene
 Concen: 0.525 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU032216.D
 Acq: 22 May 2019 12:32

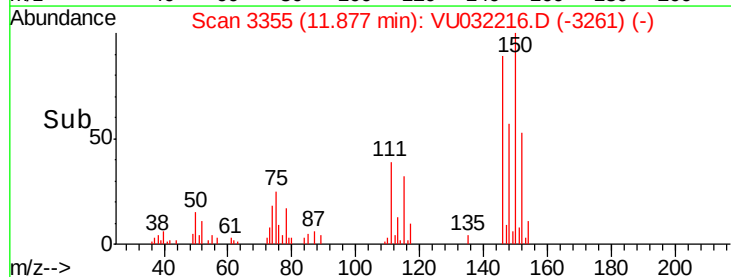
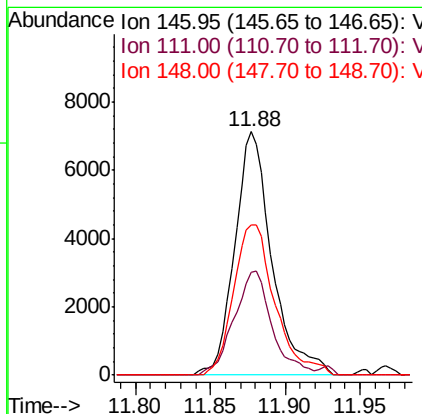
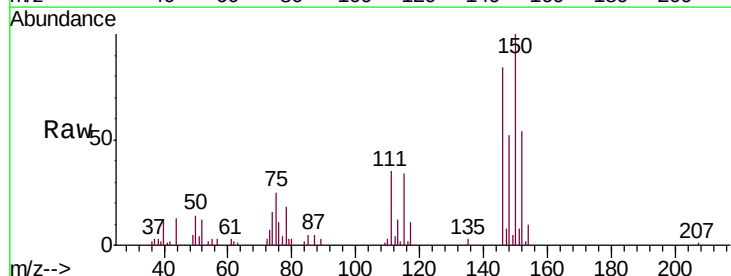
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.507

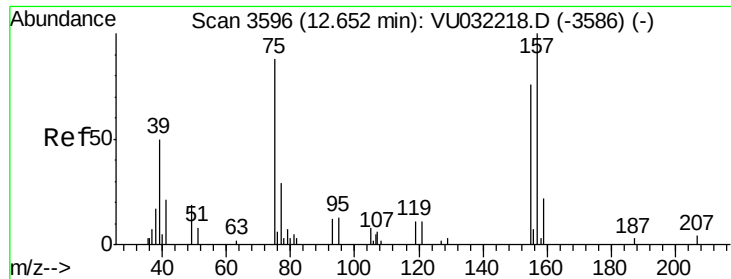
Tgt Ion:146 Resp: 13796
 Ion Ratio Lower Upper
 146 100
 111 43.1 26.6 49.4
 148 67.8 45.2 84.0



#65
 1,2-Dichlorobenzene
 Concen: 0.484 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU032216.D
 Acq: 22 May 2019 12:32

Tgt Ion:146 Resp: 12363
 Ion Ratio Lower Upper
 146 100
 111 42.3 33.9 50.9
 148 61.9 54.3 81.5





#66

1,2-Dibromo-3-chloropropane

Concen: 0.256 ug/L

RT: 12.66 min Scan# 3598

Delta R.T. 0.01 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.507

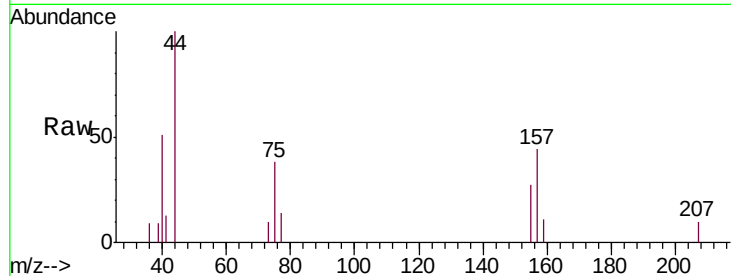
Tgt Ion: 75 Resp: 419

Ion Ratio Lower Upper

75 100

155 73.3 69.3 103.9

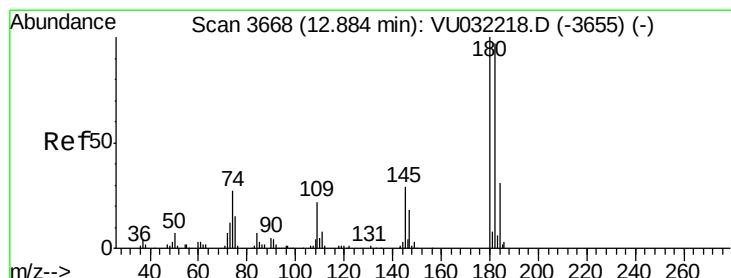
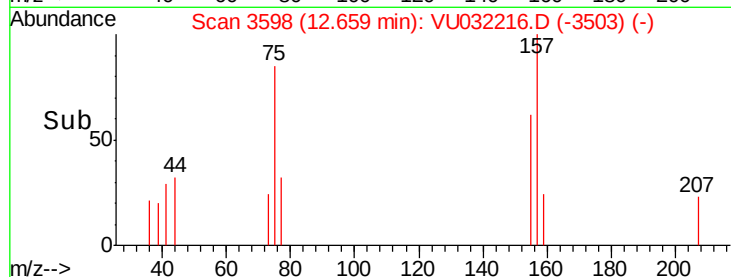
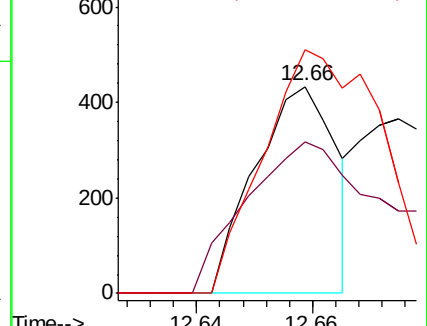
157 117.5 90.6 135.8



Abundance Ion 75.05 (74.75 to 75.75): VU032218.D (-3586) (-)

Ion 154.95 (154.65 to 155.65): VU032218.D (-3586) (-)

Ion 156.90 (156.60 to 157.60): VU032218.D (-3586) (-)



#67

1,3,5-Trichlorobenzene

Concen: 0.465 ug/L

RT: 12.89 min Scan# 3669

Delta R.T. 0.00 min

Lab File: VU032216.D

Acq: 22 May 2019 12:32

Tgt Ion: 180 Resp: 8751

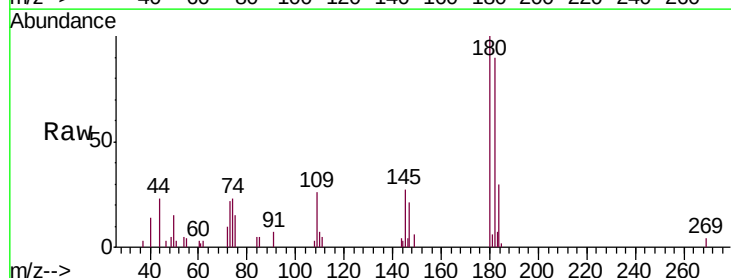
Ion Ratio Lower Upper

180 100

182 95.4 76.2 114.4

184 34.7 24.3 36.5

145 31.3 23.6 35.4

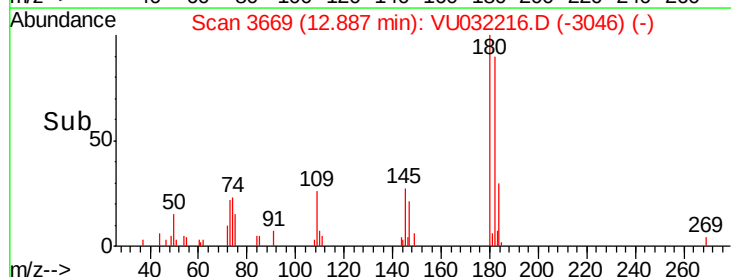
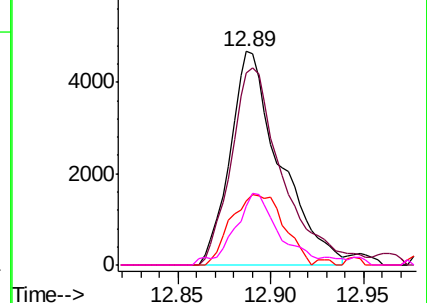


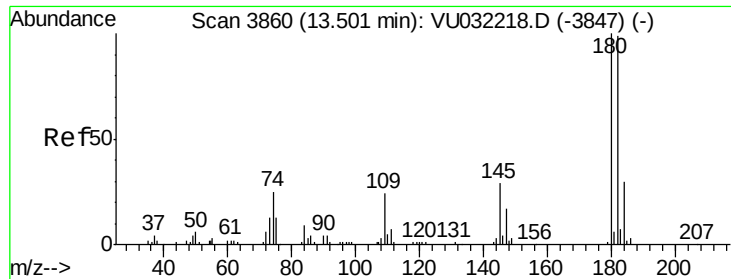
Abundance Ion 180.00 (179.70 to 180.70): VU032218.D (-3655) (-)

Ion 182.00 (181.70 to 182.70): VU032218.D (-3655) (-)

Ion 184.00 (183.70 to 184.70): VU032218.D (-3655) (-)

Ion 145.00 (144.70 to 145.70): VU032218.D (-3655) (-)

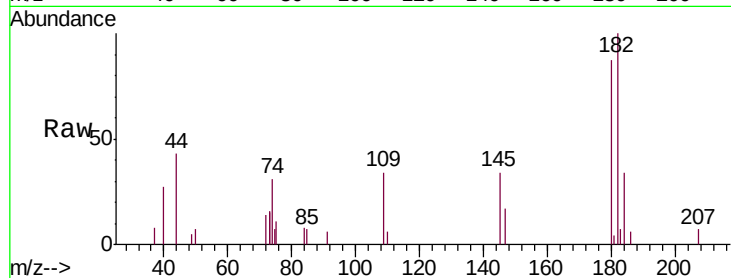




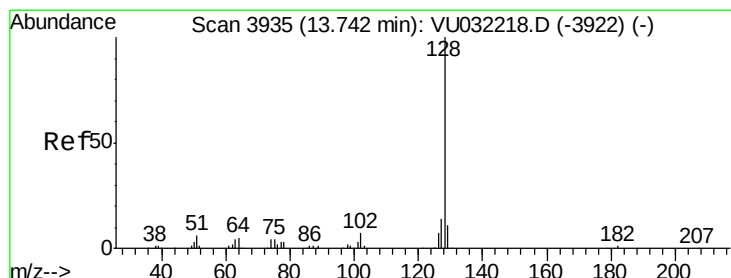
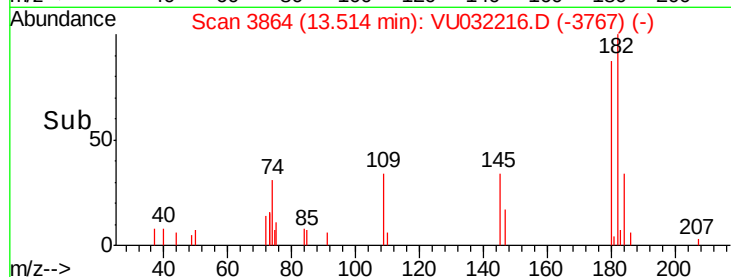
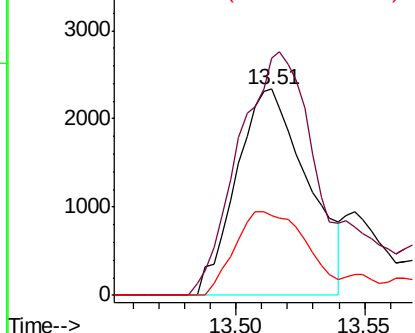
#68
 1,2,4-trichlorobenzene
 Concen: 0.347 ug/L
 RT: 13.51 min Scan# 3864
 Delta R.T. 0.01 min
 Lab File: VU032216.D
 Acq: 22 May 2019 12:32

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.507

Tgt Ion:180 Resp: 4509
 Ion Ratio Lower Upper
 180 100
 182 141.3 75.9 113.9#
 145 40.8 21.7 32.5#

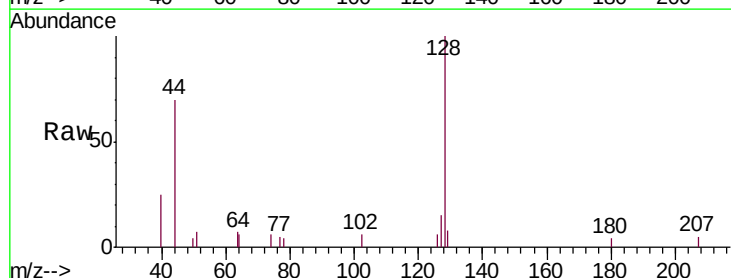


Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

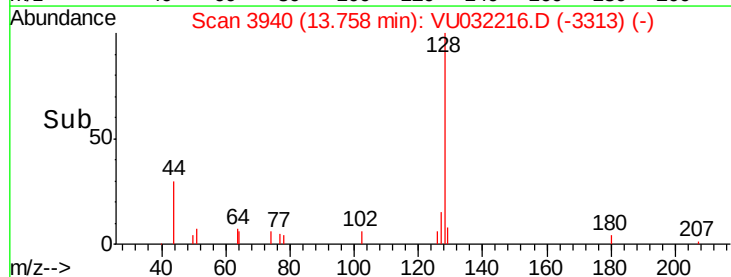
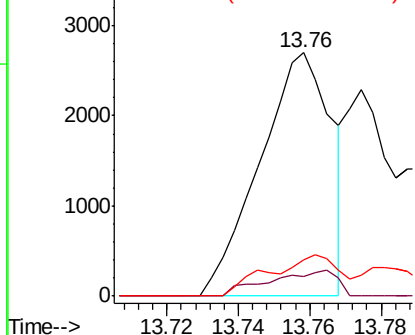


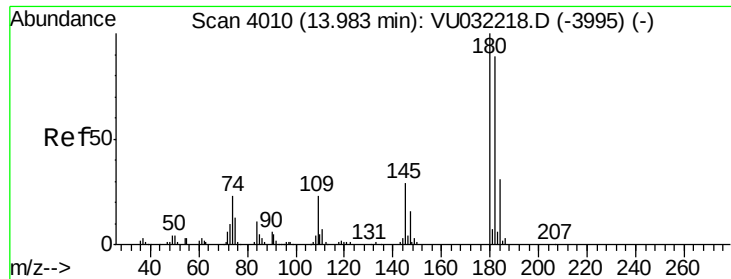
#69
 Naphthalene
 Concen: 0.190 ug/L
 RT: 13.76 min Scan# 3940
 Delta R.T. 0.02 min
 Lab File: VU032216.D
 Acq: 22 May 2019 12:32

Tgt Ion:128 Resp: 3742
 Ion Ratio Lower Upper
 128 100
 129 10.0 9.2 13.8
 127 16.5 11.1 16.7



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 0.555 ug/L
 RT: 13.99 min Scan# 4013
 Delta R.T. 0.01 min
 Lab File: VU032216.D
 Acq: 22 May 2019 12:32

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.507

Tgt Ion:180 Resp: 7328
 Ion Ratio Lower Upper
 180 100
 182 100.6 74.6 111.8
 145 12.9 23.4 35.0#

