

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102820\
 Data File : VU040997.D
 Acq On : 28 Oct 2020 16:58
 Operator : SY/MD
 Sample : VSTD0.502
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.5102

Quant Time: Oct 29 01:31:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUTR102820WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 29 01:21:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	130250	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	134582	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	59133	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	4284	0.49	ug/L	0.00
7) Chloroethane-d5	1.92	69	3542	0.50	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.58	65	2110	0.48	ug/L	0.00
20) 2-Butanone-d5	4.67	46	17172	5.20	ug/L	0.00
24) Chloroform-d	5.08	84	8581	0.50	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.72	65	5785	0.53	ug/L	0.00
32) Benzene-d6	5.74	84	15209	0.44	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.70	67	5226	0.45	ug/L	0.00
41) Toluene-d8	7.91	98	12231	0.39	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.18	79	2096	0.44	ug/L	0.00
46) 2-Hexanone-d5	8.64	63	9961	4.05	ug/L	0.00
56) 1,1,2,2-Tetrachloroethane-	10.75	84	4958	0.50	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	12.19	152	4720	0.47	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	5368	0.407 ug/L	98
3) Chloromethane	1.53	50	5949	0.455 ug/L	95
5) Vinyl chloride	1.61	62	5802	0.448 ug/L	92
6) Bromomethane	1.87	94	2952	0.427 ug/L	95
8) Chloroethane	1.94	64	4433	0.577 ug/L	89
9) Trichlorofluoromethane	2.15	101	8200	0.469 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	4789	0.449 ug/L	93
12) 1,1-Dichloroethene	2.59	96	4582	0.459 ug/L	96
13) Acetone	2.67	43	8216	3.354 ug/L	100
14) Carbon disulfide	2.81	76	14270	0.416 ug/L	97
15) Methyl Acetate	2.98	43	2598	0.427 ug/L #	81
16) Methylene chloride	3.06	84	5672	0.454 ug/L	95
17) Methyl tert-butyl Ether	3.38	73	11241	0.430 ug/L #	90
18) trans-1,2-Dichloroethene	3.37	96	4719	0.454 ug/L	86
19) 1,1-Dichloroethane	3.89	63	9537	0.462 ug/L	94
21) 2-Butanone	4.75	43	18264	4.545 ug/L	94
22) cis-1,2-Dichloroethene	4.69	96	4928	0.451 ug/L	77
23) Bromochloromethane	5.00	128	2226	0.431 ug/L	87
25) Chloroform	5.11	83	9829	0.474 ug/L	98
27) 1,2-Dichloroethane	5.81	62	7204	0.480 ug/L	97
29) 1,1,1-Trichloroethane	5.33	97	8104	0.436 ug/L	98
30) Cyclohexane	5.41	56	6484	0.329 ug/L	97
31) Carbon tetrachloride	5.54	117	6803	0.430 ug/L	94
33) Benzene	5.79	78	18277	0.401 ug/L	100
34) Trichloroethene	6.55	95	5260	0.447 ug/L	83
35) Methylcyclohexane	6.77	83	5875	0.324 ug/L	98
37) 1,2-Dichloropropane	6.80	63	5388	0.421 ug/L #	92
38) Bromodichloromethane	7.11	83	6689	0.432 ug/L #	97
39) cis-1,3-Dichloropropene	7.61	75	6813	0.397 ug/L	90
40) 4-Methyl-2-pentanone	7.80	43	35304	3.672 ug/L	96

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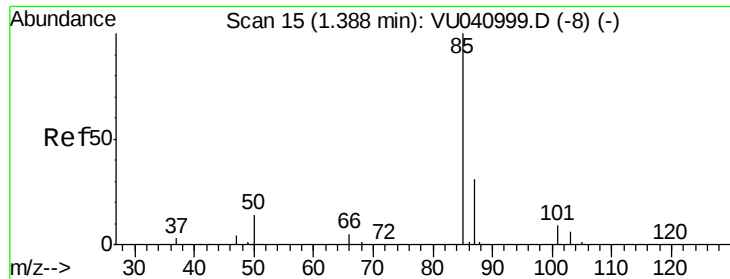
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.5102

Quant Time: Oct 29 01:31:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUTR102820WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 29 01:21:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.98	91	16775	0.364	ug/L	100
44) trans-1,3-Dichloropropene	8.21	75	5914	0.373	ug/L	84
45) 1,1,2-Trichloroethane	8.41	97	3892	0.448	ug/L	91
47) Tetrachloroethene	8.56	164	3296	0.386	ug/L #	81
48) 2-Hexanone	8.69	43	26418	3.759	ug/L	99
49) Dibromochloromethane	8.82	129	4186	0.419	ug/L	96
50) 1,2-Dibromoethane	8.92	107	3549	0.424	ug/L #	99
51) Chlorobenzene	9.45	112	12216	0.413	ug/L	99
52) Ethylbenzene	9.57	91	16880	0.336	ug/L	99
53) m,p-Xylene	9.69	106	5817	0.321	ug/L	97
54) o-Xylene	10.10	106	5761	0.330	ug/L	99
55) Styrene	10.11	104	9550	0.317	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.78	83	4747	0.415	ug/L	97
59) Bromoform	10.29	173	2421	0.508	ug/L #	96
60) Isopropylbenzene	10.48	105	14676	0.365	ug/L	98
61) 1,2,3-Trichloropropane	10.82	75	3705	0.487	ug/L	91
62) 1,3,5-Trimethylbenzene	11.09	105	11474	0.356	ug/L	100
63) 1,2,4-Trimethylbenzene	11.46	105	10620	0.325	ug/L	99
64) 1,3-Dichlorobenzene	11.74	146	8260	0.413	ug/L	95
65) 1,4-Dichlorobenzene	11.83	146	8569	0.415	ug/L	96
67) 1,2-Dichlorobenzene	12.21	146	8342	0.443	ug/L #	94
68) 1,2-Dibromo-3-chloropropan	12.99	75	753	0.421	ug/L	92
69) 1,3,5-Trichlorobenzene	13.21	180	5411	0.386	ug/L	97
70) 1,2,4-trichlorobenzene	13.83	180	4376	0.387	ug/L	97
71) Naphthalene	14.08	128	5686	0.292	ug/L #	95
72) 1,2,3-Trichlorobenzene	14.32	180	3700	0.362	ug/L	98

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

```
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ALS Vial  : 11      Sample Multiplier: 1
```



#2

Dichlorodifluoromethane

Concen: 0.407 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

Instrument :

MSVOA_U

ClientSampleId :

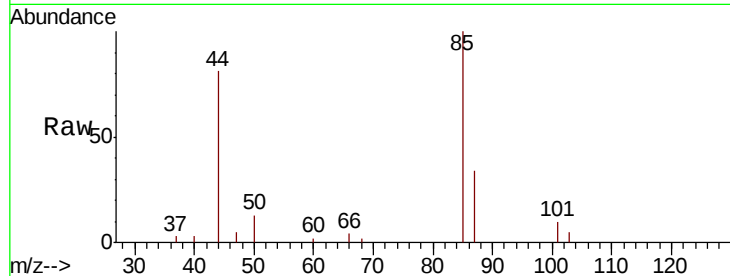
VSTD0.5102

Tot Ion: 85 Resp: 5368

Ion Ratio Lower Upper

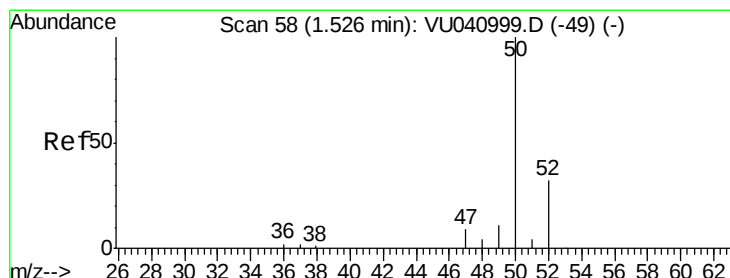
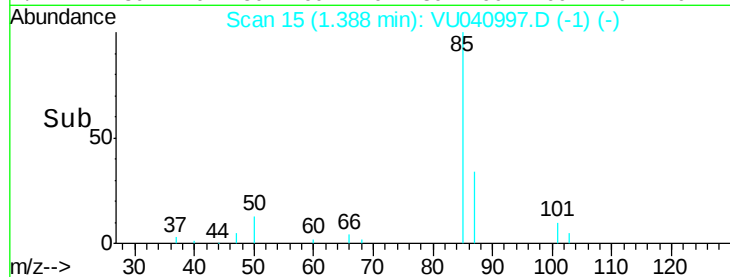
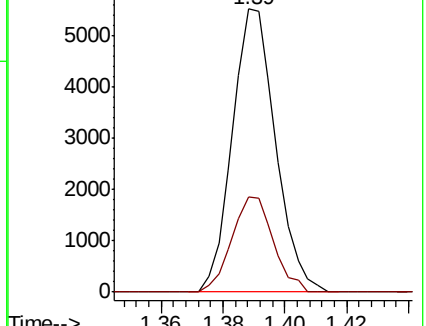
85 100

87 32.4 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU040999.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU040999.D (-8) (-)



#3

Chloromethane

Concen: 0.455 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040997.D

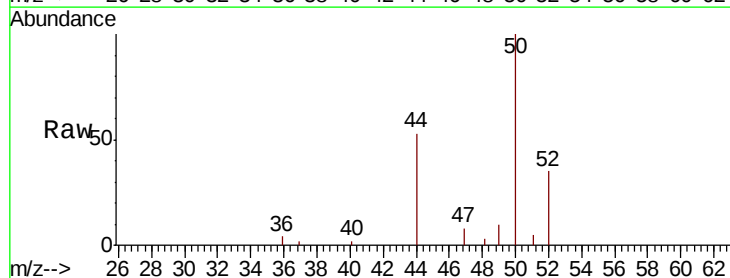
Acq: 28 Oct 2020 16:58

Tgt Ion: 50 Resp: 5949

Ion Ratio Lower Upper

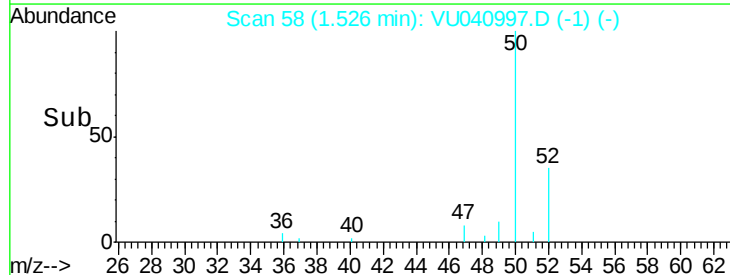
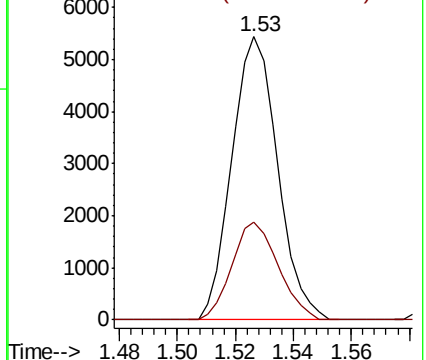
50 100

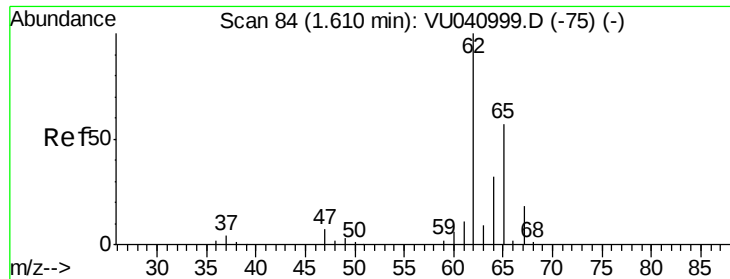
52 34.5 22.4 41.6



Abundance Ion 50.05 (49.75 to 50.75): VU040999.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU040999.D (-49) (-)





#5

Vinyl chloride

Concen: 0.448 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

Instrument :

MSVOA_U

ClientSampleId :

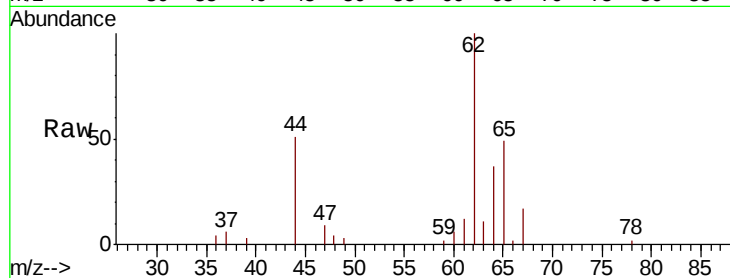
VSTD0.5102

Tot Ion: 62 Resp: 5802

Ion Ratio Lower Upper

62 100

64 37.2 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU040997.D (-75) (-)

Ion 64.10 (63.80 to 64.80): VU040997.D (-75) (-)

1.61

6000

5000

4000

3000

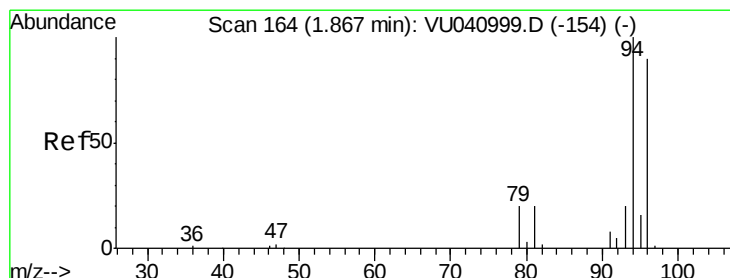
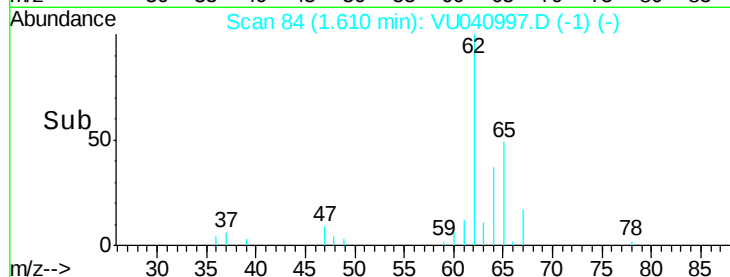
2000

1000

0

1.58 1.60 1.62 1.64

Time-->



#6

Bromomethane

Concen: 0.427 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU040997.D

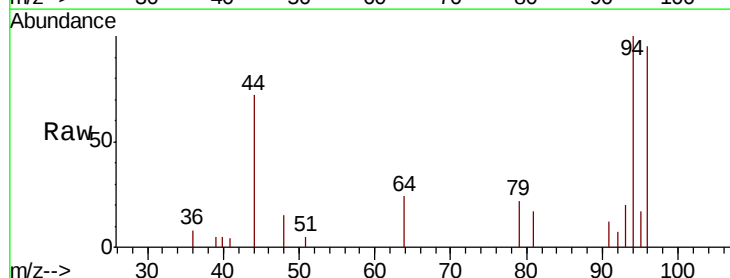
Acq: 28 Oct 2020 16:58

Tgt Ion: 94 Resp: 2952

Ion Ratio Lower Upper

94 100

96 94.8 63.2 117.4



Abundance Ion 94.00 (93.70 to 94.70): VU040997.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU040997.D (-154) (-)

1.87

2500

2000

1500

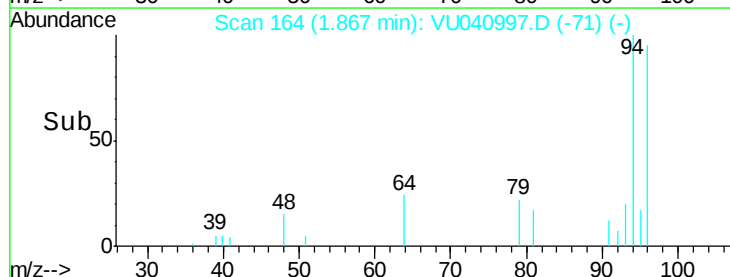
1000

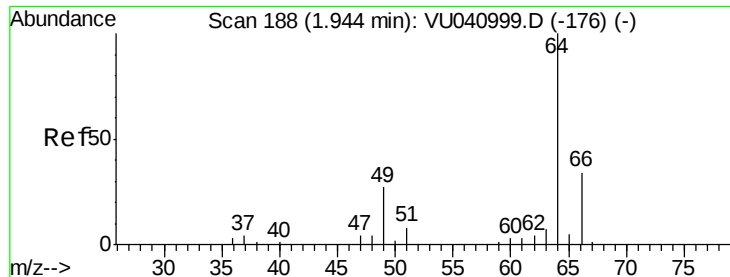
500

0

1.82 1.84 1.86 1.88 1.90

Time-->





#8

Chloroethane

Concen: 0.577 ug/L

RT: 1.94 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

Instrument :

MSVOA_U

ClientSampleId :

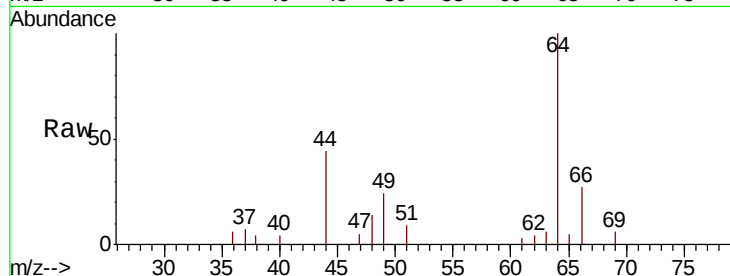
VSTD0.5102

Tot Ion: 64 Resp: 4433

Ion Ratio Lower Upper

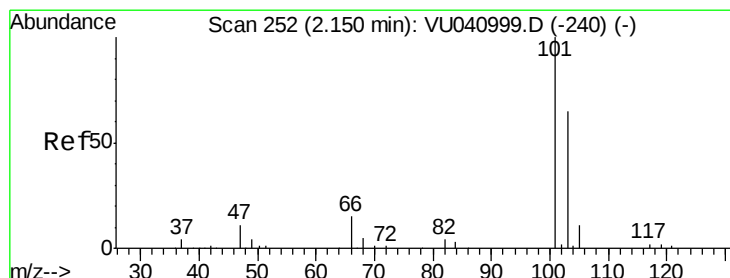
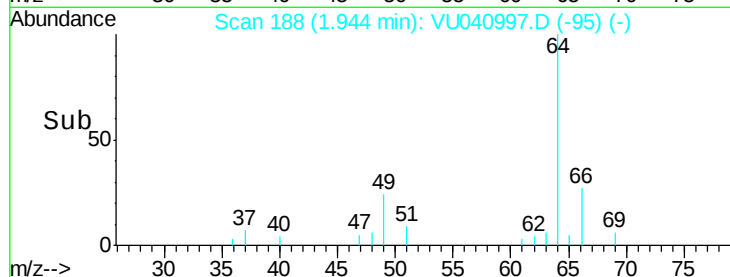
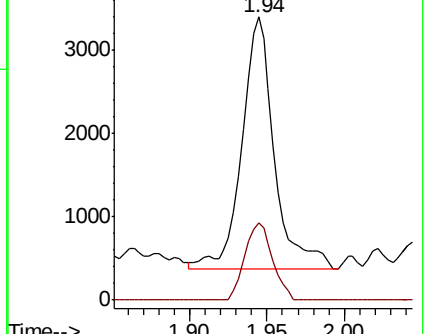
64 100

66 27.4 23.4 43.6



Abundance Ion 64.10 (63.80 to 64.80): VU040997.D (-176) (-)

Ion 66.05 (65.75 to 66.75): VU040997.D (-176) (-)



#9

Trichlorofluoromethane

Concen: 0.469 ug/L

RT: 2.15 min Scan# 251

Delta R.T. -0.00 min

Lab File: VU040997.D

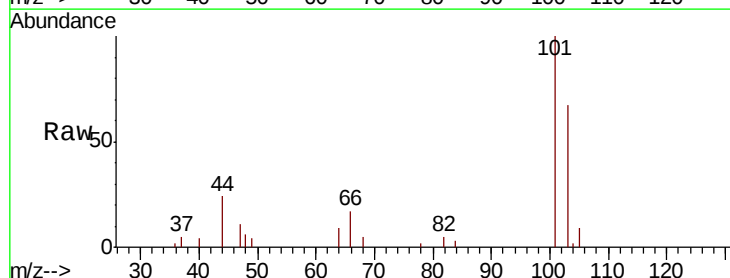
Acq: 28 Oct 2020 16:58

Tgt Ion: 101 Resp: 8200

Ion Ratio Lower Upper

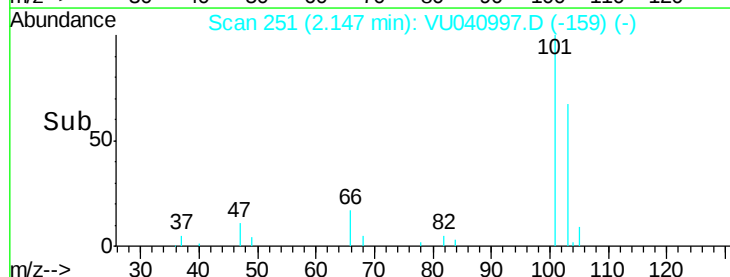
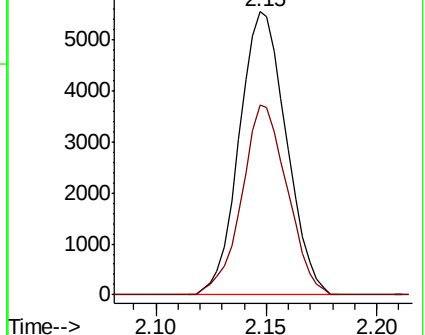
101 100

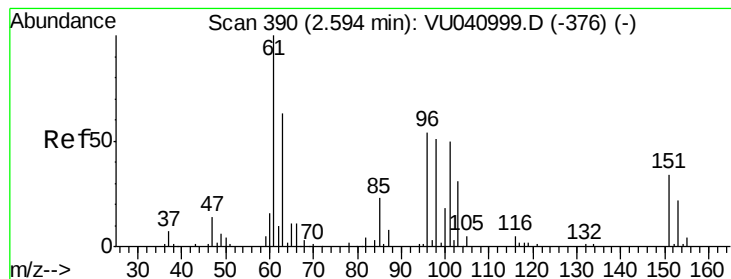
103 64.9 51.0 76.4



Abundance Ion 101.00 (100.70 to 101.70): VU040997.D (-240) (-)

Ion 103.00 (102.70 to 103.70): VU040997.D (-240) (-)





#10

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

Concen: 0.449 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.5102

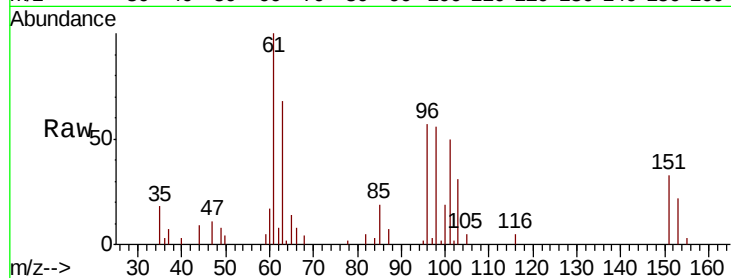
Tot Ion:101 Resp: 4789

Ion Ratio Lower Upper

101 100

85 40.1 38.1 57.1

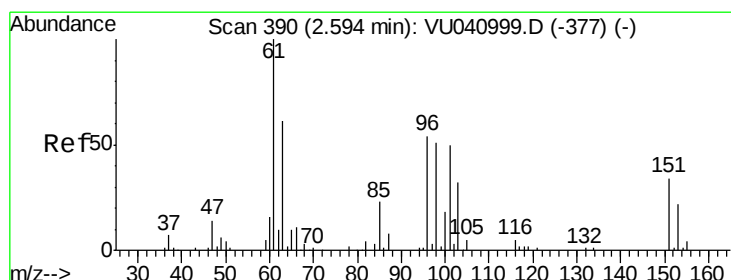
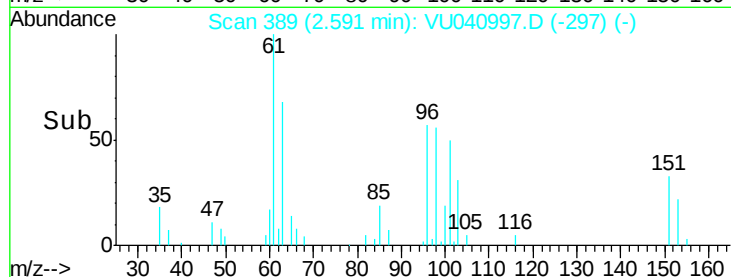
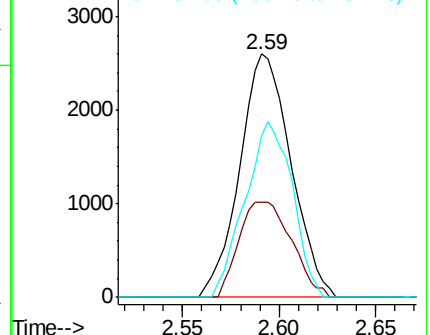
151 66.7 56.0 84.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.459 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

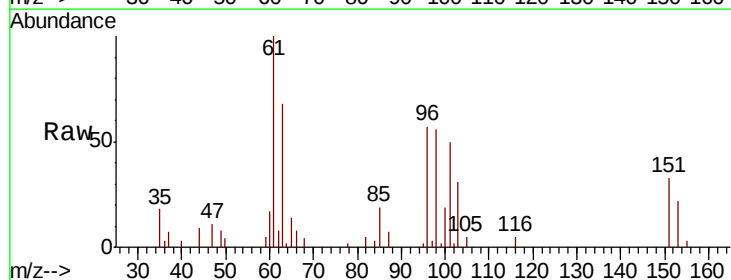
Tgt Ion: 96 Resp: 4582

Ion Ratio Lower Upper

96 100

61 175.5 130.2 241.8

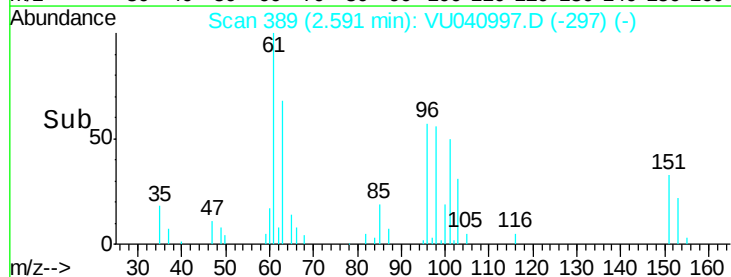
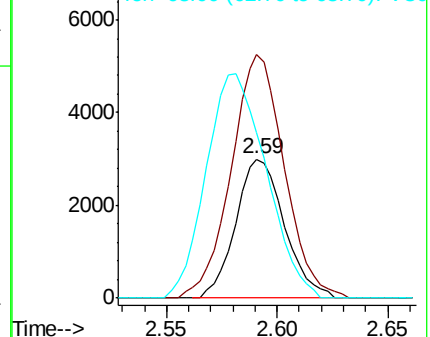
63 119.5 83.7 155.5

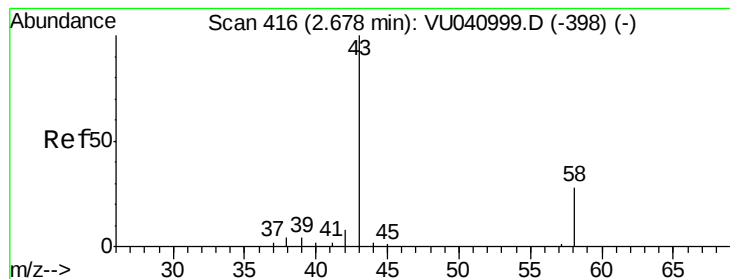


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 3.354 ug/L

RT: 2.67 min Scan# 414

Delta R.T. -0.01 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

Instrument :

MSVOA_U

ClientSampleId :

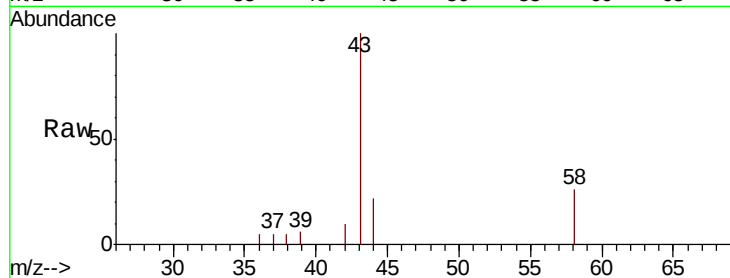
VSTD0.5102

Tot Ion: 43 Resp: 8216

Ion Ratio Lower Upper

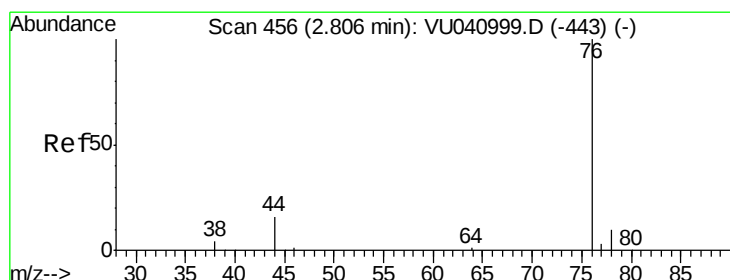
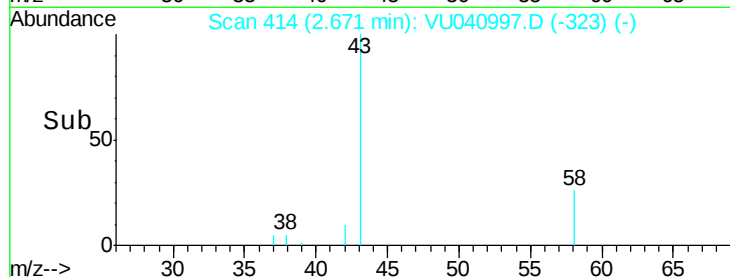
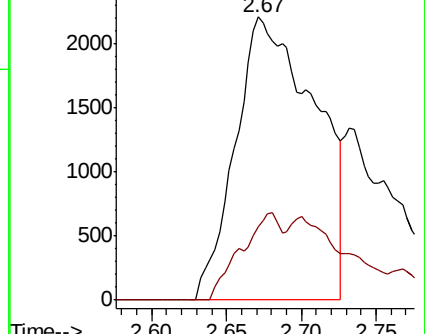
43 100

58 15.3 0.0 30.8



Abundance Ion 43.05 (42.75 to 43.75): VU040997.D (-398) (-)

Ion 58.05 (57.75 to 58.75): VU040997.D (-398) (-)



#14

Carbon disulfide

Concen: 0.416 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU040997.D

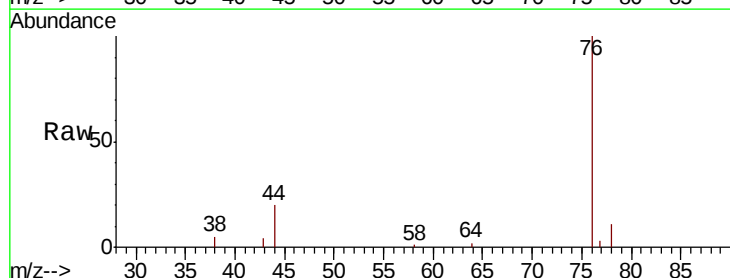
Acq: 28 Oct 2020 16:58

Tgt Ion: 76 Resp: 14270

Ion Ratio Lower Upper

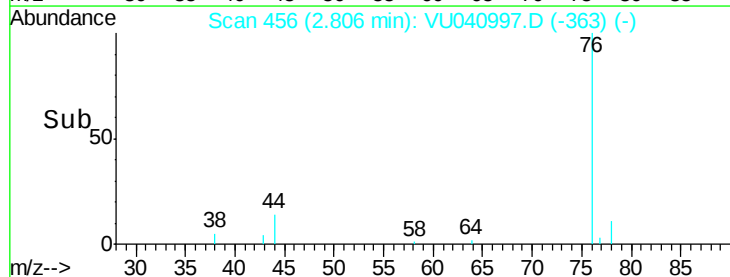
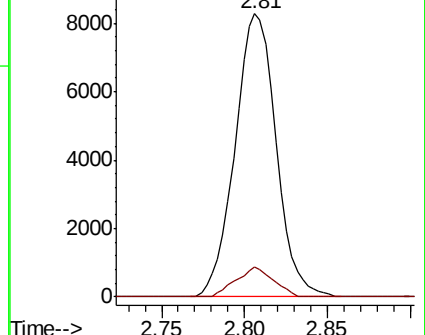
76 100

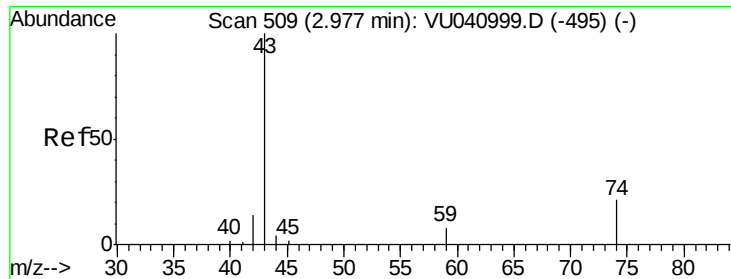
78 10.6 7.7 11.5



Abundance Ion 76.05 (75.75 to 76.75): VU040997.D (-443) (-)

Ion 78.00 (77.70 to 78.70): VU040997.D (-443) (-)

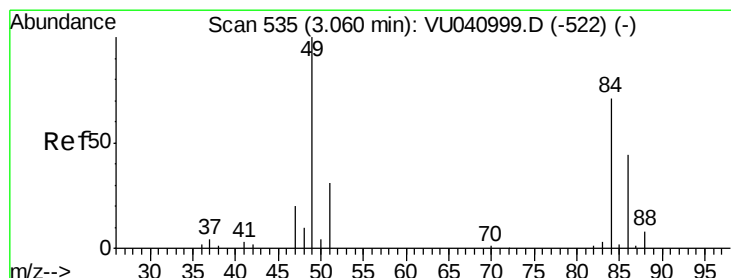
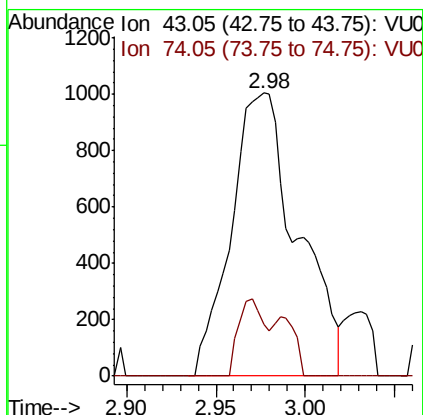
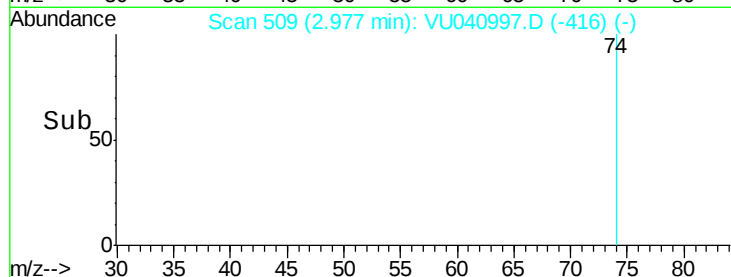
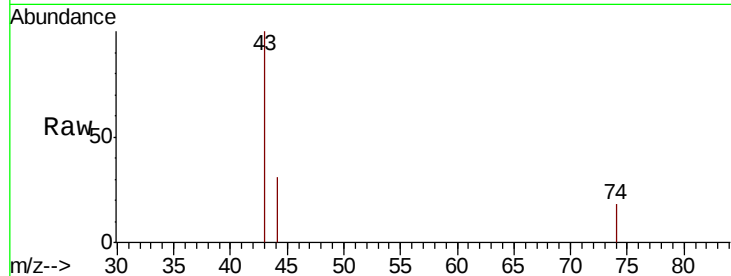




#15
Methyl Acetate
Concen: 0.427 ug/L
RT: 2.98 min Scan# 509
Delta R.T. -0.00 min
Lab File: VU040997.D
Acq: 28 Oct 2020 16:58

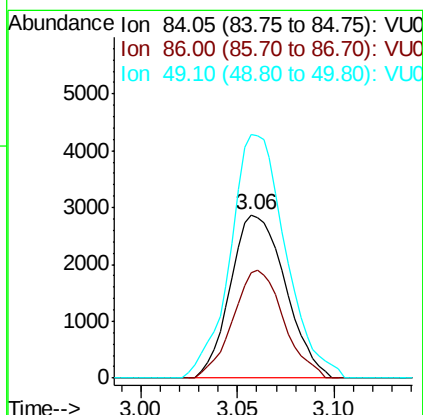
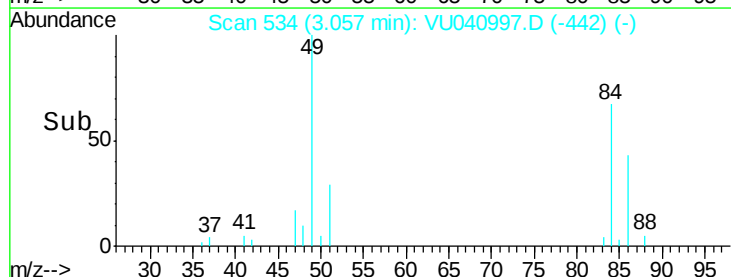
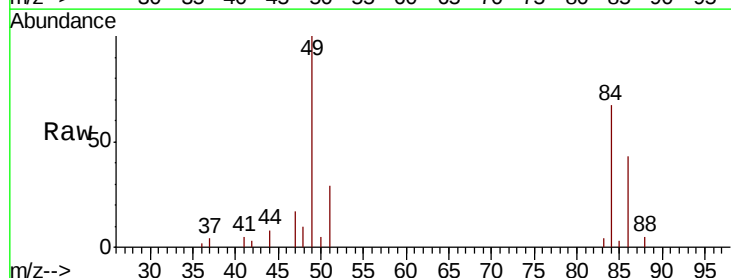
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.5102

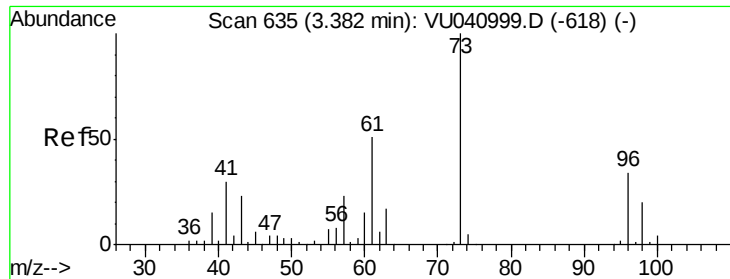
Tot Ion: 43 Resp: 2598
Ion Ratio Lower Upper
43 100
74 10.8 15.6 23.4#



#16
Methylene chloride
Concen: 0.454 ug/L
RT: 3.06 min Scan# 534
Delta R.T. -0.00 min
Lab File: VU040997.D
Acq: 28 Oct 2020 16:58

Tgt Ion: 84 Resp: 5672
Ion Ratio Lower Upper
84 100
86 64.8 44.2 82.0
49 149.2 99.3 184.3

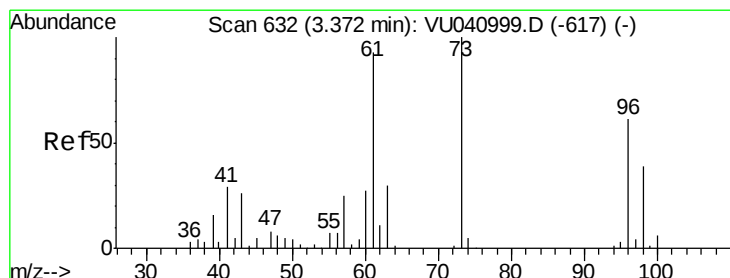
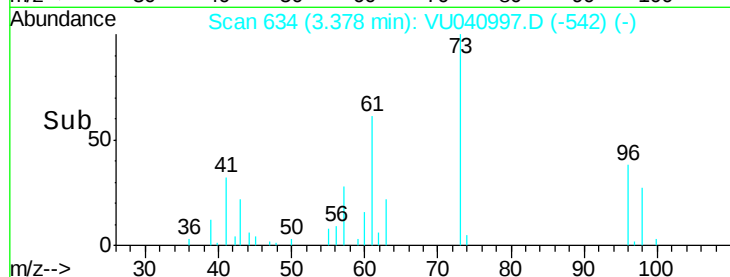
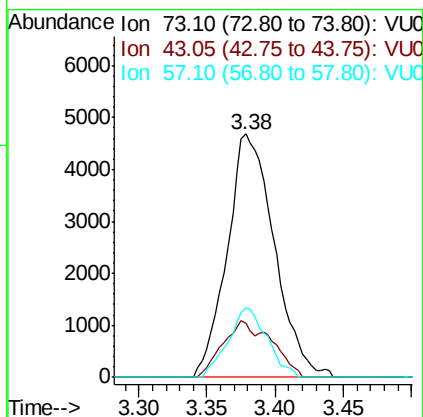
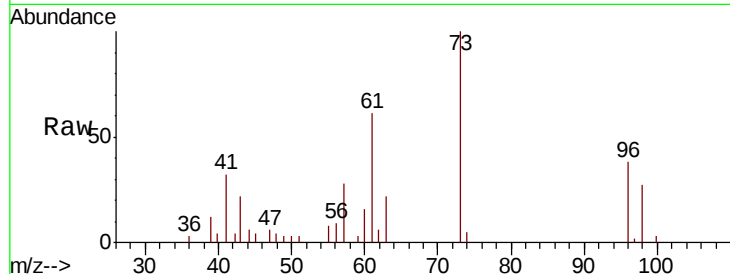




#17
Methvl tert-butvl Ether
Concen: 0.430 ug/L
RT: 3.38 min Scan# 634
Delta R.T. -0.00 min
Lab File: VU040997.D
Acq: 28 Oct 2020 16:58

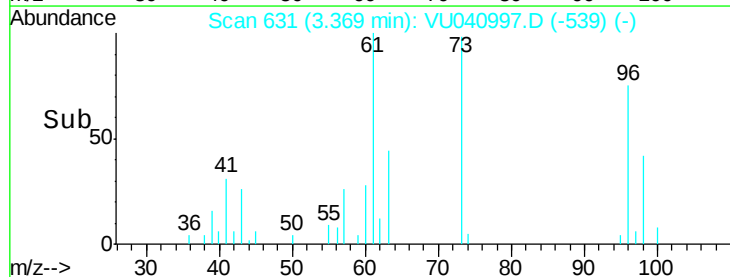
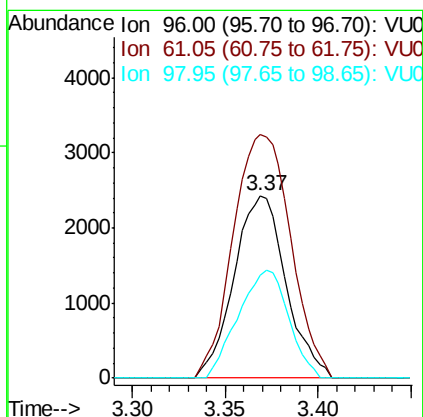
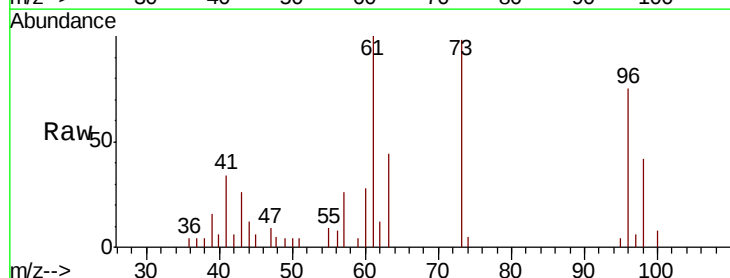
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.5102

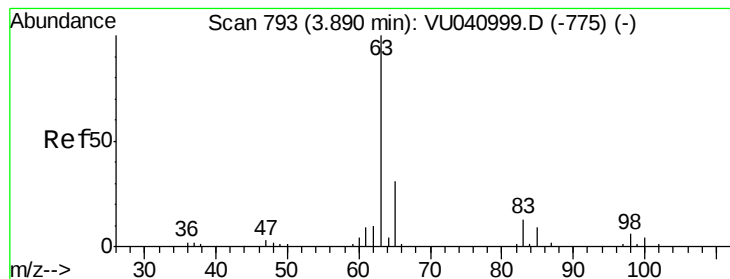
Tot Ion: 73 Resp: 11241
Ion Ratio Lower Upper
73 100
43 15.0 19.5 29.3#
57 23.5 18.9 28.3



#18
trans-1,2-Dichloroethene
Concen: 0.454 ug/L
RT: 3.37 min Scan# 631
Delta R.T. -0.00 min
Lab File: VU040997.D
Acq: 28 Oct 2020 16:58

Tgt Ion: 96 Resp: 4719
Ion Ratio Lower Upper
96 100
61 133.4 107.2 199.0
98 56.0 44.6 82.8





#19

1,1-Dichloroethane

Concen: 0.462 ug/L

RT: 3.89 min Scan# 793

Delta R.T. -0.00 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.5102

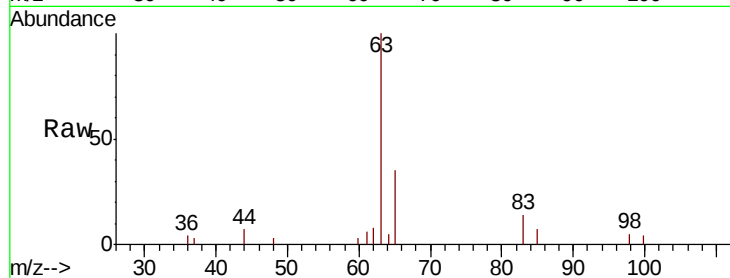
Tot Ion: 63 Resp: 9537

Ion Ratio Lower Upper

63 100

65 35.2 21.8 40.4

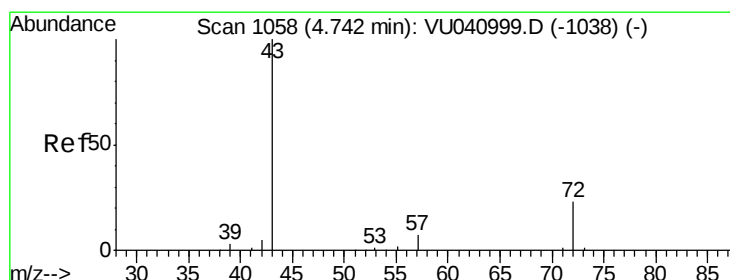
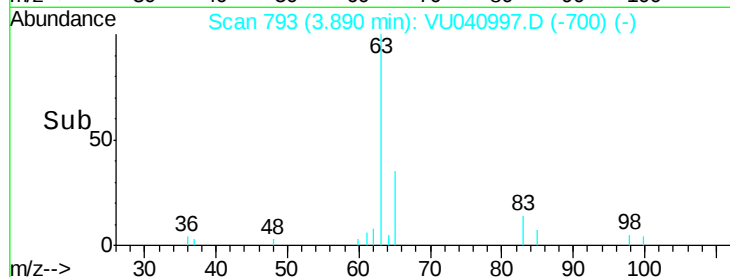
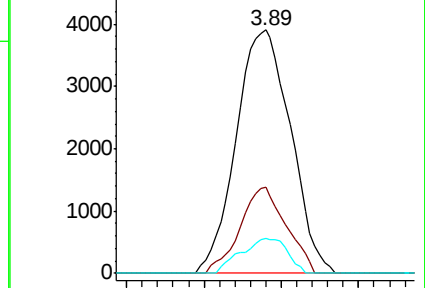
83 14.2 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU040997.D (-700) (-)

Ion 65.10 (64.80 to 65.80): VU040997.D (-700) (-)

Ion 83.05 (82.75 to 83.75): VU040997.D (-700) (-)



#21

2-Butanone

Concen: 4.545 ug/L

RT: 4.75 min Scan# 1060

Delta R.T. 0.01 min

Lab File: VU040997.D

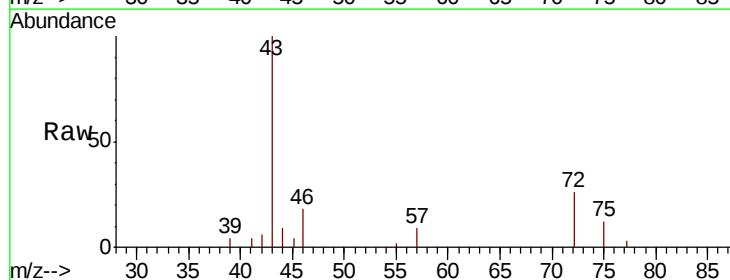
Acq: 28 Oct 2020 16:58

Tgt Ion: 43 Resp: 18264

Ion Ratio Lower Upper

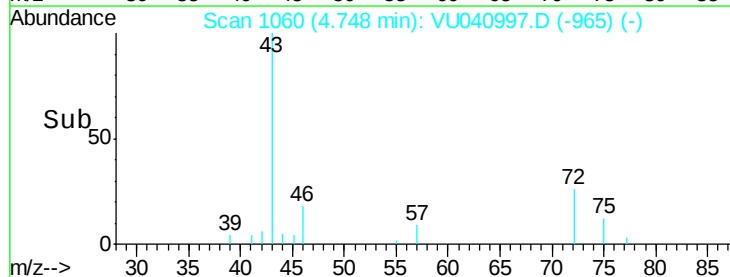
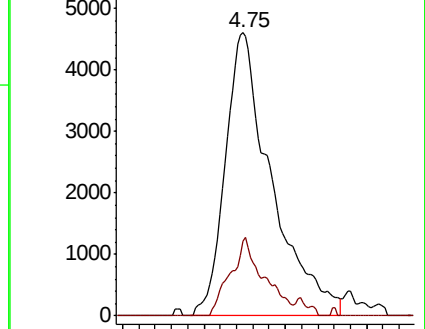
43 100

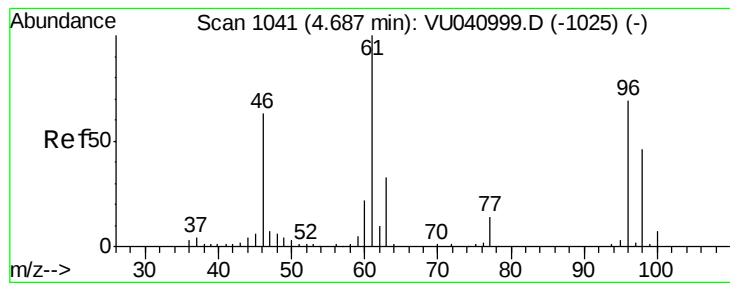
72 20.1 11.6 34.7



Abundance Ion 43.05 (42.75 to 43.75): VU040997.D (-965) (-)

Ion 72.10 (71.80 to 72.80): VU040997.D (-965) (-)





#22

cis-1,2-Dichloroethene

Concen: 0.451 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. -0.00 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.5102

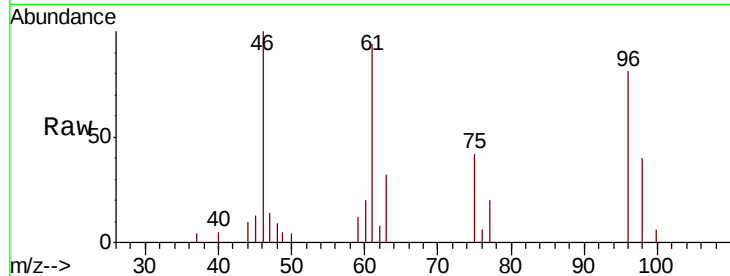
Tot Ion: 96 Resp: 4928

Ion Ratio Lower Upper

96 100

61 116.0 101.7 188.9

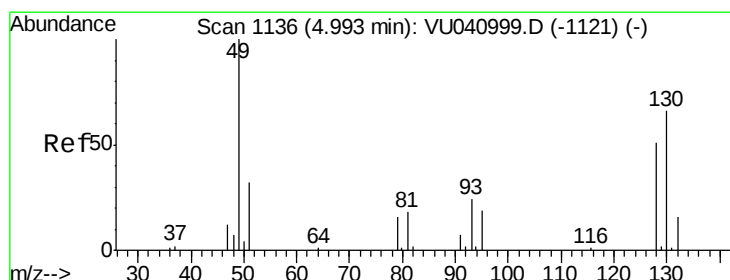
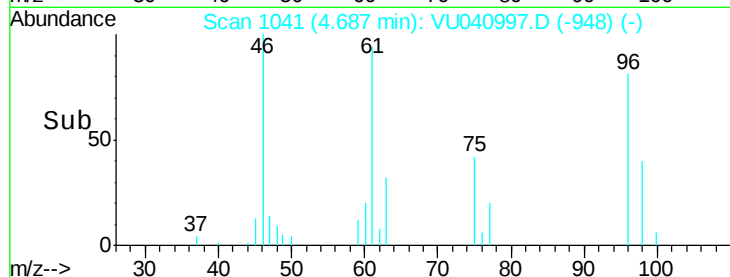
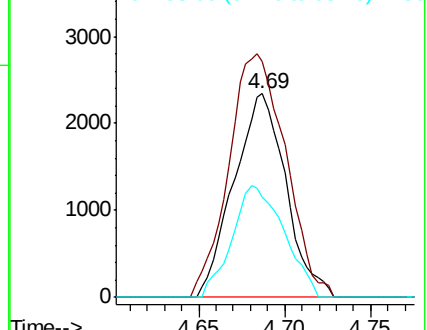
98 49.4 46.4 86.2



Abundance Ion 96.00 (95.70 to 96.70): VU040997.D (-1025) (-)

Ion 61.05 (60.75 to 61.75): VU040997.D (-1025) (-)

Ion 98.00 (97.70 to 98.70): VU040997.D (-1025) (-)



#23

Bromochloromethane

Concen: 0.431 ug/L

RT: 5.00 min Scan# 1137

Delta R.T. 0.00 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

Tgt Ion: 128 Resp: 2226

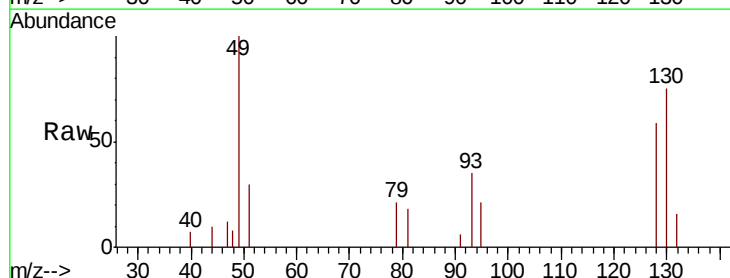
Ion Ratio Lower Upper

128 100

49 168.2 137.5 255.4

130 125.4 90.2 167.4

51 51.2 49.8 74.6

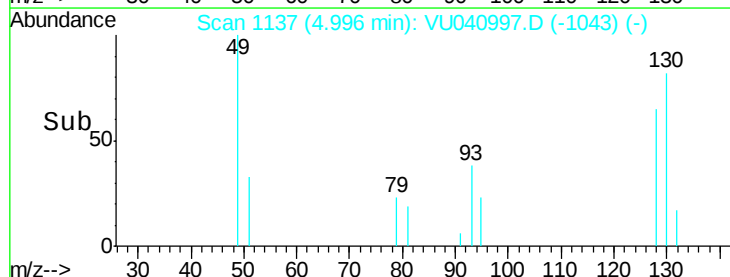
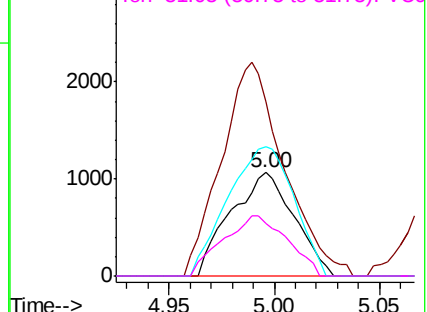


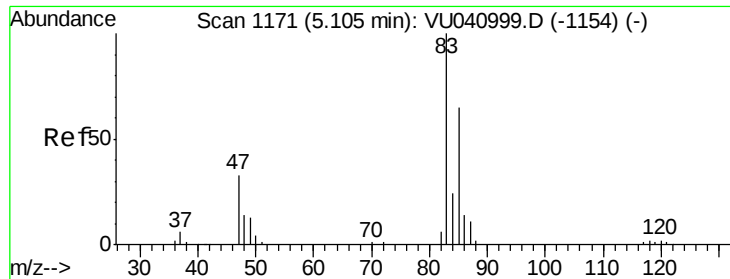
Abundance Ion 127.90 (127.60 to 128.60): VU040997.D (-1121) (-)

Ion 49.10 (48.80 to 49.80): VU040997.D (-1121) (-)

Ion 129.95 (129.65 to 130.65): VU040997.D (-1121) (-)

Ion 51.05 (50.75 to 51.75): VU040997.D (-1121) (-)

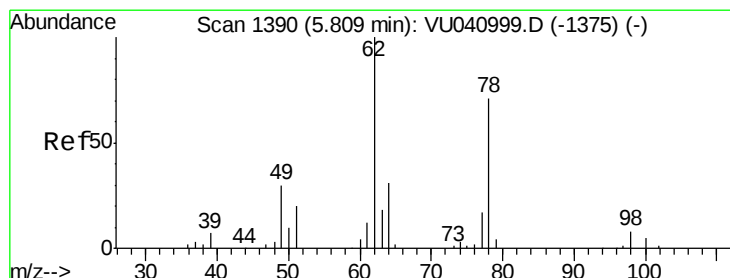
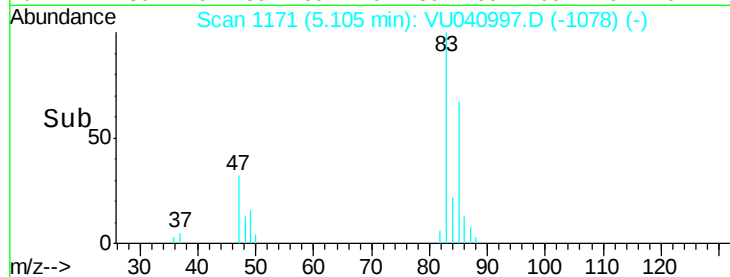
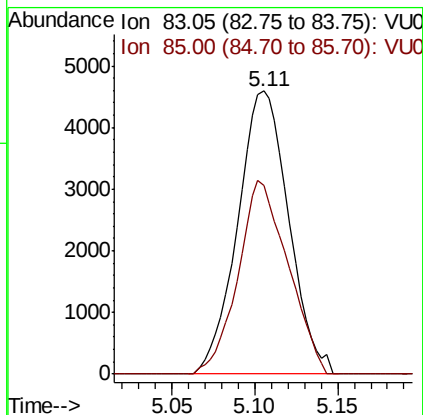
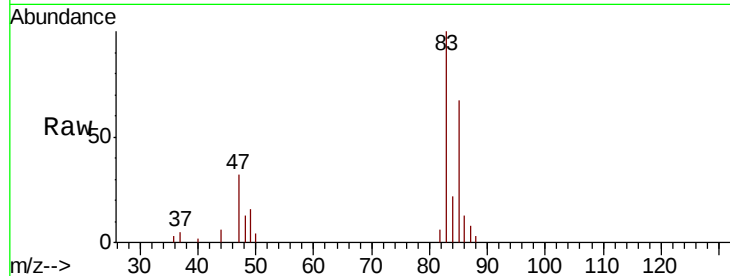




#25
Chloroform
Concen: 0.474 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. -0.00 min
Lab File: VU040997.D
Acq: 28 Oct 2020 16:58

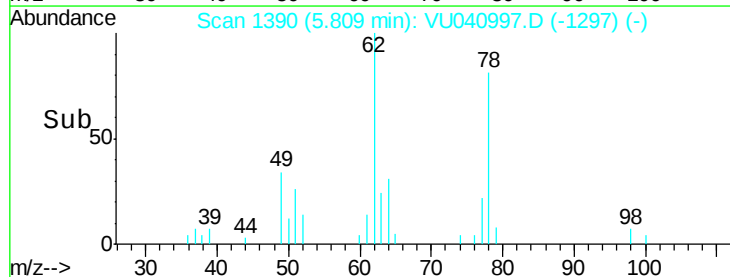
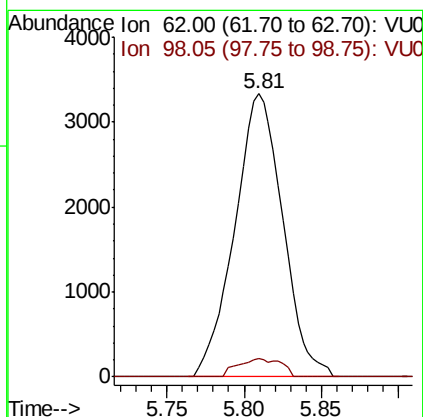
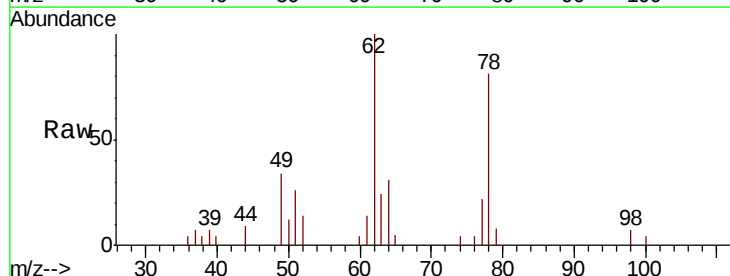
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.5102

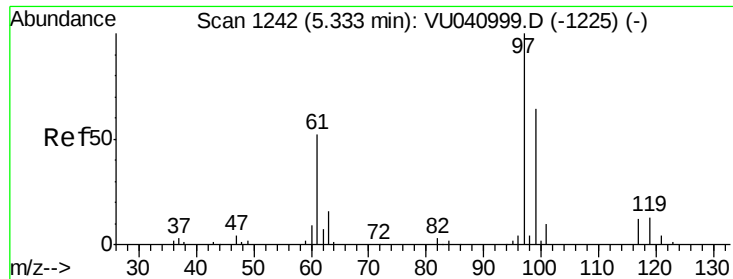
Tot Ion: 83 Resp: 9829
Ion Ratio Lower Upper
83 100
85 66.7 45.5 84.5



#27
1,2-Dichloroethane
Concen: 0.480 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VU040997.D
Acq: 28 Oct 2020 16:58

Tgt Ion: 62 Resp: 7204
Ion Ratio Lower Upper
62 100
98 6.6 6.1 9.1

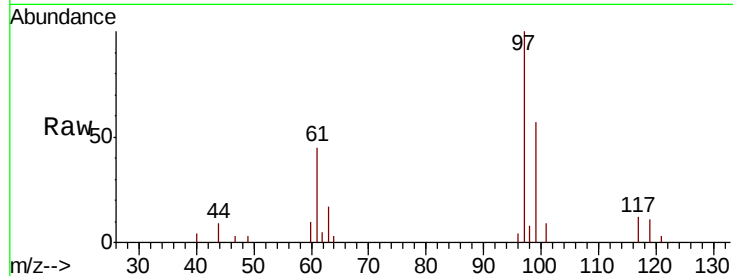




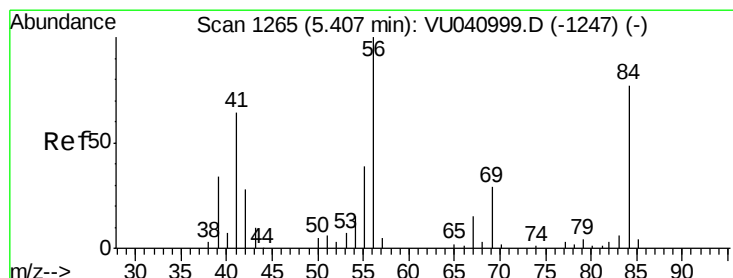
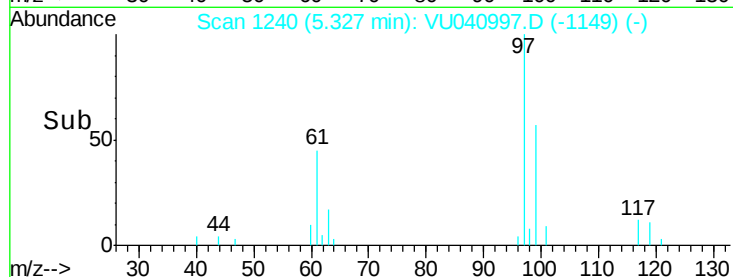
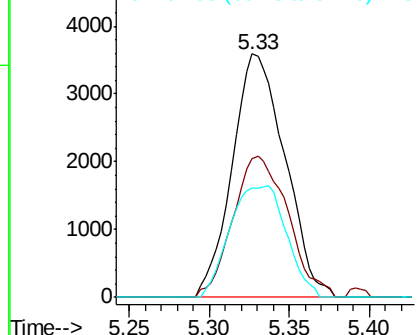
#29
 1,1,1-Trichloroethane
 Concen: 0.436 ug/L
 RT: 5.33 min Scan# 1240
 Delta R.T. -0.01 min
 Lab File: VU040997.D
 Acq: 28 Oct 2020 16:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.5102

Tot Ion: 97 Resp: 8104
 Ion Ratio Lower Upper
 97 100
 99 60.4 50.2 75.2
 61 48.9 39.6 59.4

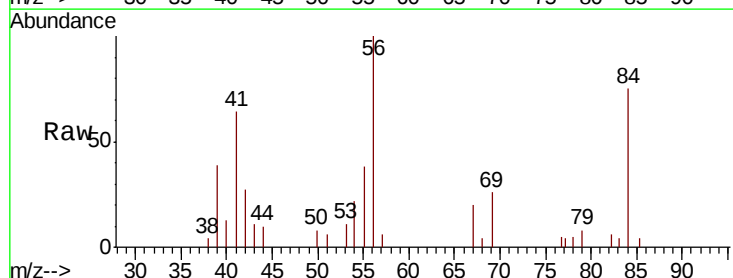


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

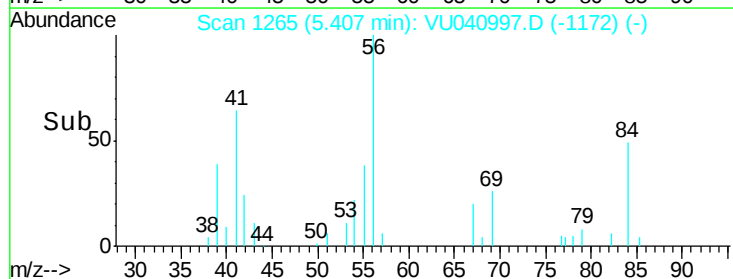
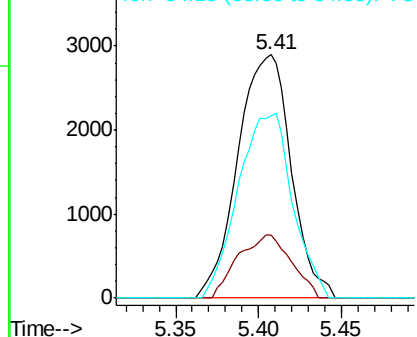


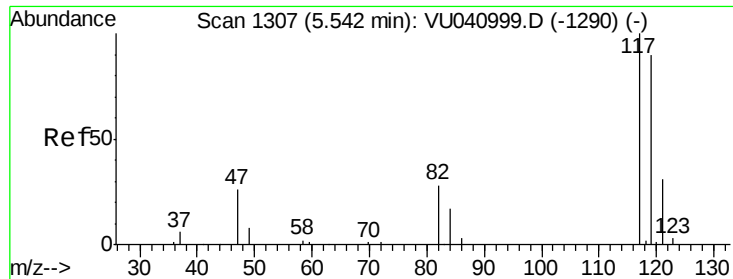
#30
 Cyclohexane
 Concen: 0.329 ug/L
 RT: 5.41 min Scan# 1265
 Delta R.T. -0.00 min
 Lab File: VU040997.D
 Acq: 28 Oct 2020 16:58

Tgt Ion: 56 Resp: 6484
 Ion Ratio Lower Upper
 56 100
 69 25.8 23.2 34.8
 84 77.2 62.9 94.3



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

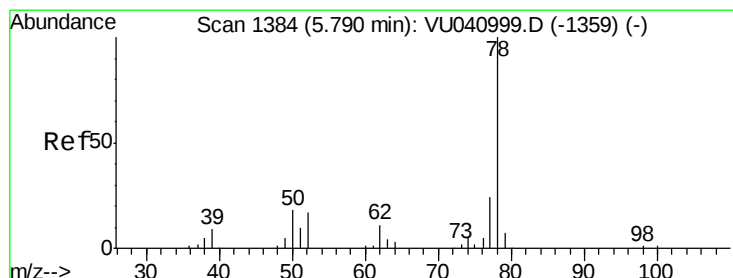
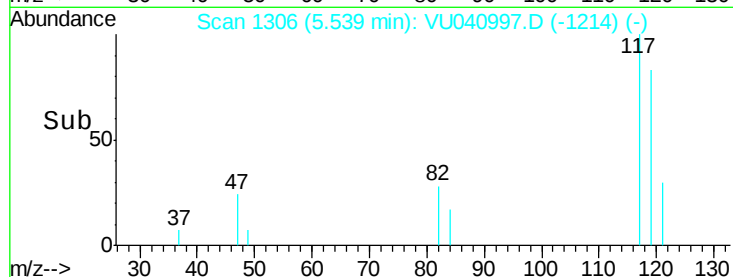
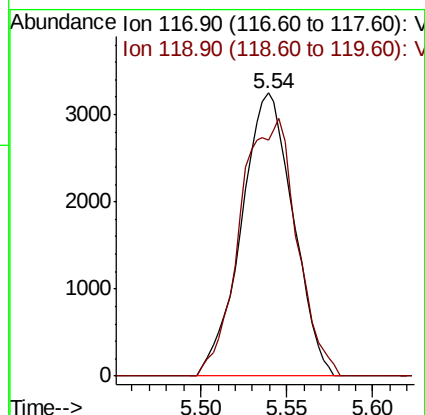
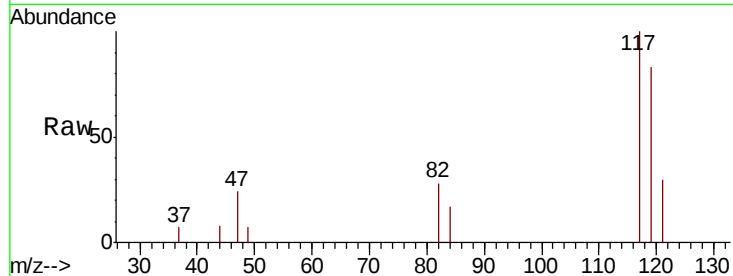




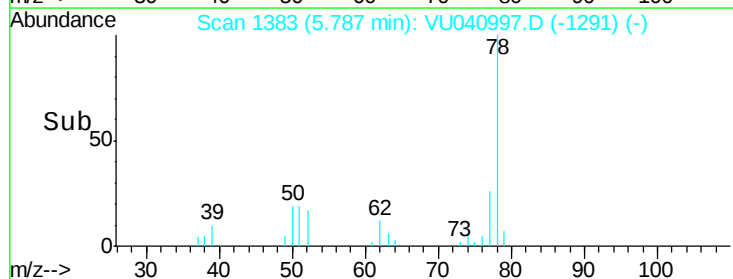
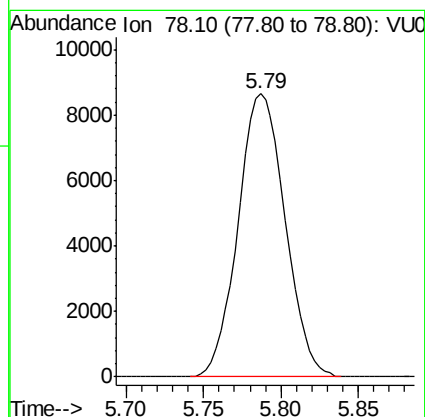
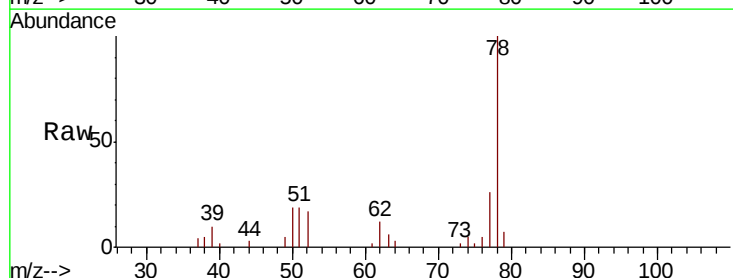
#31
Carbon tetrachloride
Concen: 0.430 ug/L
RT: 5.54 min Scan# 1306
Delta R.T. -0.00 min
Lab File: VU040997.D
Acq: 28 Oct 2020 16:58

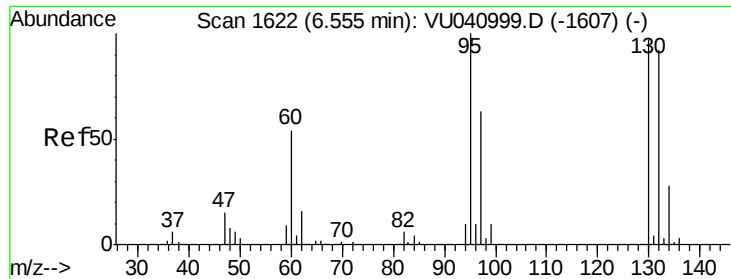
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.5102

Tot Ion:117 Resp: 6803
Ion Ratio Lower Upper
117 100
119 99.2 74.4 111.6



#33
Benzene
Concen: 0.401 ug/L
RT: 5.79 min Scan# 1383
Delta R.T. -0.00 min
Lab File: VU040997.D
Acq: 28 Oct 2020 16:58
Tgt Ion: 78 Resp: 18277

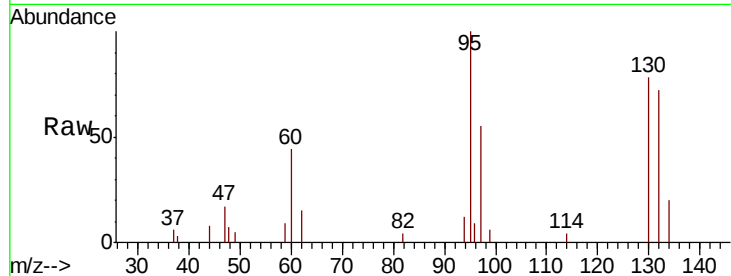




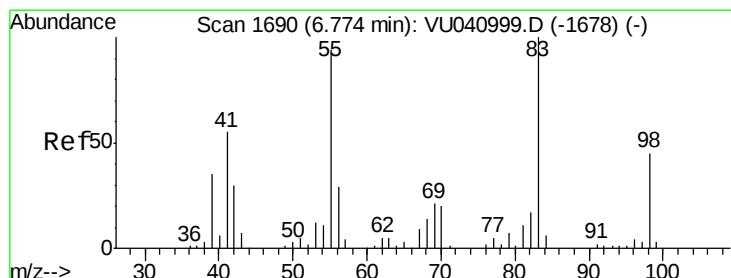
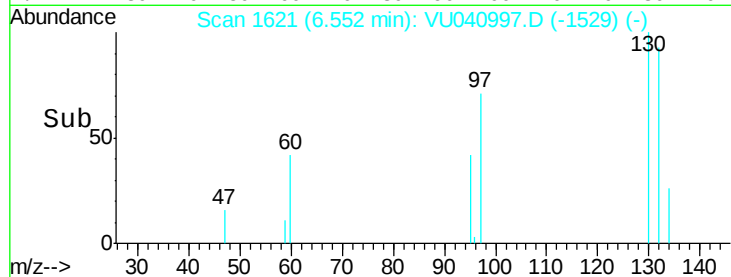
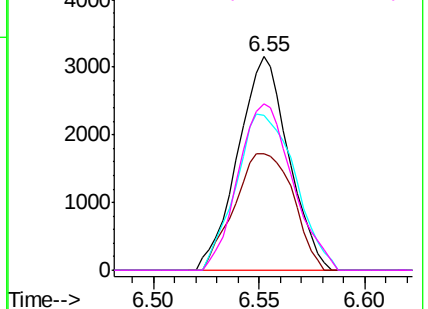
#34
 Trichloroethene
 Concen: 0.447 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU040997.D
 Acq: 28 Oct 2020 16:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.5102

Tot Ion:	95	Resp:	5260
Ion	Ratio	Lower	Upper
95	100		
97	54.8	43.8	81.4
132	72.4	64.5	119.7
130	77.6	67.6	125.6

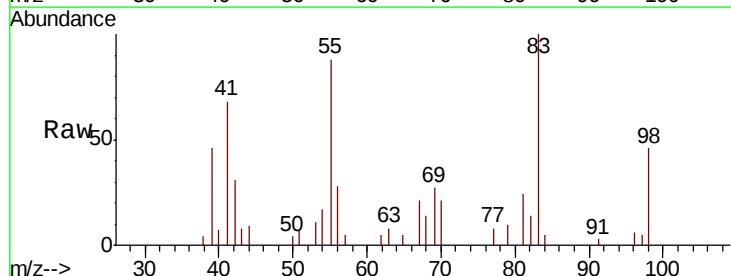


Abundance Ion 95.00 (94.70 to 95.70): VU040997.D (-1529) (-)
 Ion 96.95 (96.65 to 97.65): VU040997.D (-1529) (-)
 Ion 131.95 (131.65 to 132.65): VU040997.D (-1529) (-)
 Ion 129.95 (129.65 to 130.65): VU040997.D (-1529) (-)

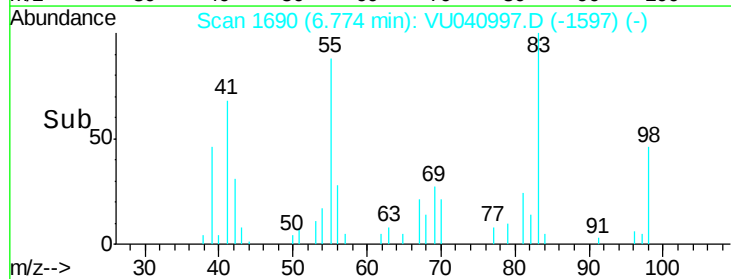
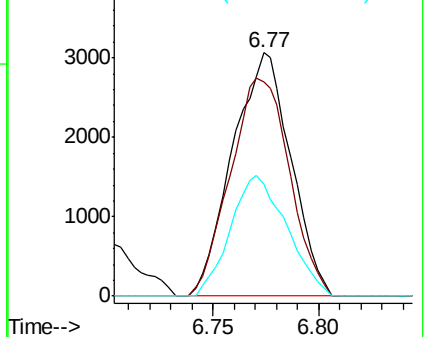


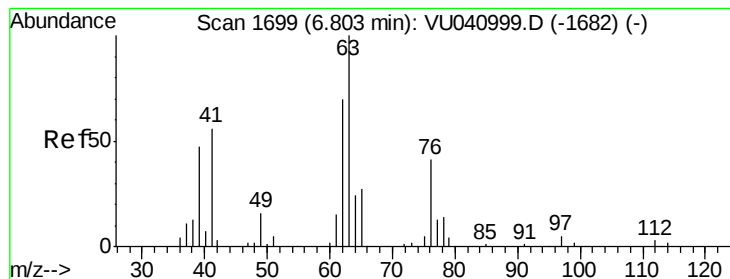
#35
 Methylcyclohexane
 Concen: 0.324 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. -0.00 min
 Lab File: VU040997.D
 Acq: 28 Oct 2020 16:58

Tgt Ion:	83	Resp:	5875
Ion	Ratio	Lower	Upper
83	100		
55	91.1	72.7	109.1
98	47.9	35.7	53.5



Abundance Ion 83.15 (82.85 to 83.85): VU040997.D (-1597) (-)
 Ion 55.10 (54.80 to 55.80): VU040997.D (-1597) (-)
 Ion 98.15 (97.85 to 98.85): VU040997.D (-1597) (-)





#37

1,2-Dichloropropane

Concen: 0.421 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

Instrument :

MSVOA_U

ClientSampleId :

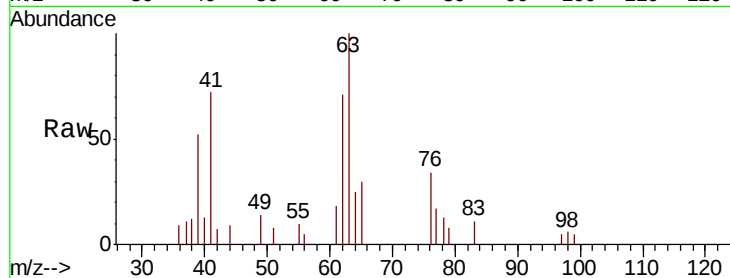
VSTD0.5102

Tot Ion: 63 Resp: 5388

Ion Ratio Lower Upper

63 100

112 1.2 3.0 4.4#



Abundance Ion 63.10 (62.80 to 63.80): VU040999.D (-1682) (-)

Ion 112.10 (111.80 to 112.80): VU040999.D (-1682) (-)

6.80

3000

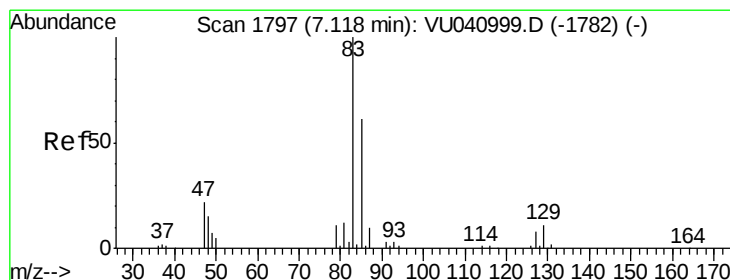
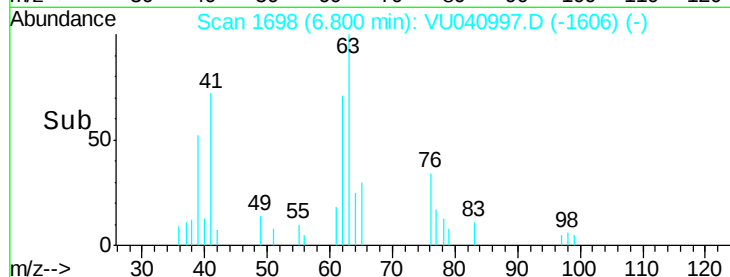
2000

1000

0

6.75 6.80 6.85

Time-->



#38

Bromodichloromethane

Concen: 0.432 ug/L

RT: 7.11 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

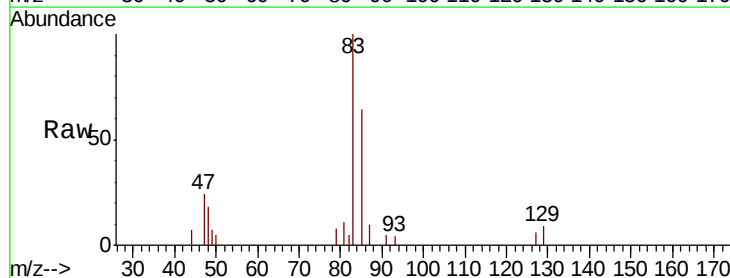
Tgt Ion: 83 Resp: 6689

Ion Ratio Lower Upper

83 100

85 63.5 42.9 79.7

127 5.7 6.2 9.2#



Abundance Ion 82.95 (82.65 to 83.65): VU040999.D (-1782) (-)

Ion 85.00 (84.70 to 85.70): VU040999.D (-1782) (-)

Ion 126.90 (126.60 to 127.60): VU040999.D (-1782) (-)

7.11

5000

4000

3000

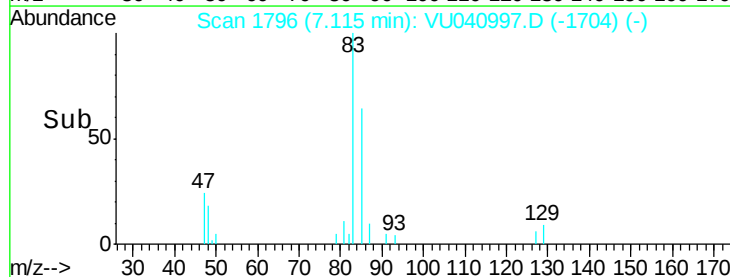
2000

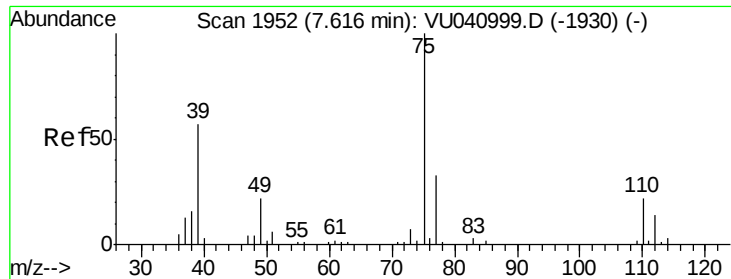
1000

0

7.05 7.10 7.15

Time-->

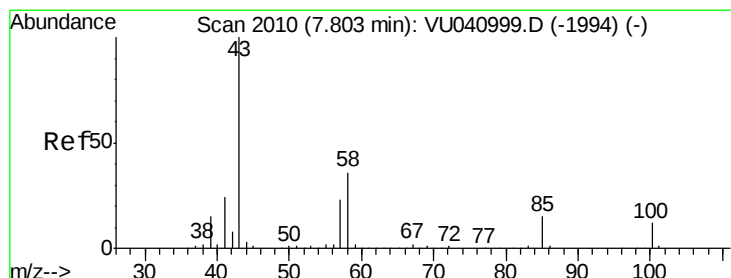
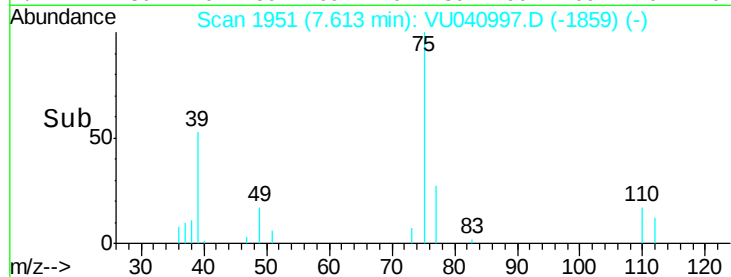
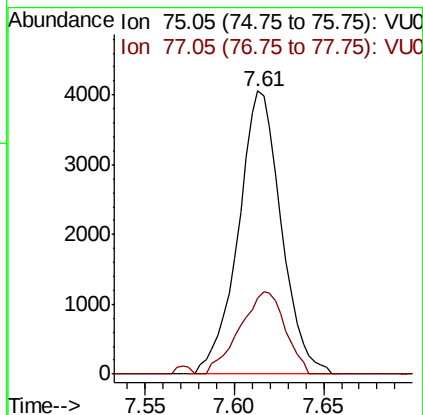
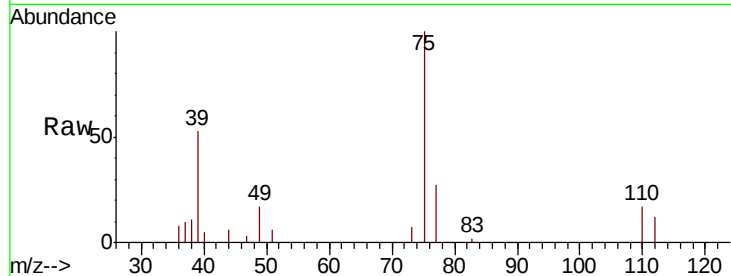




#39
 cis-1,3-Dichloropropene
 Concen: 0.397 ug/L
 RT: 7.61 min Scan# 1951
 Delta R.T. -0.00 min
 Lab File: VU040997.D
 Acq: 28 Oct 2020 16:58

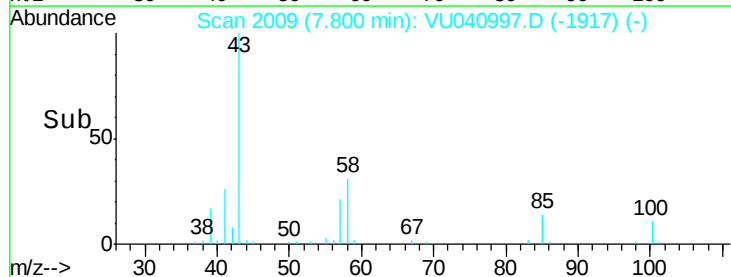
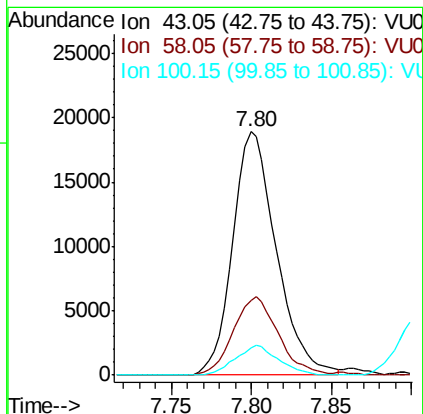
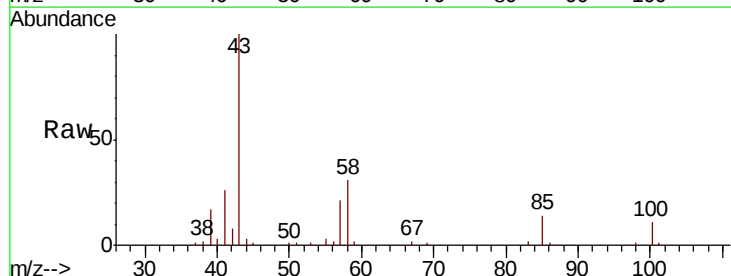
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.5102

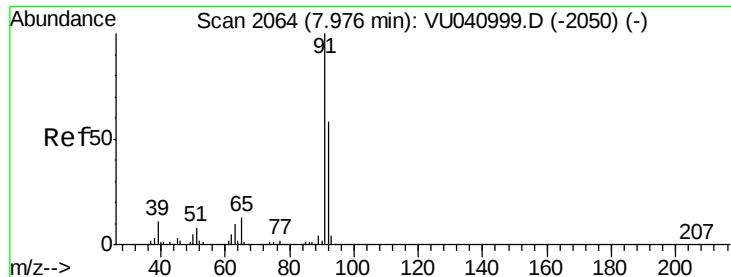
Tot Ion: 75 Resp: 6813
 Ion Ratio Lower Upper
 75 100
 77 26.8 22.7 42.3



#40
 4-Methyl-2-pentanone
 Concen: 3.672 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. -0.00 min
 Lab File: VU040997.D
 Acq: 28 Oct 2020 16:58

Tgt Ion: 43 Resp: 35304
 Ion Ratio Lower Upper
 43 100
 58 32.9 28.6 43.0
 100 11.9 9.6 14.4





#42

Toluene

Concen: 0.364 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

Instrument :

MSVOA_U

ClientSampleId :

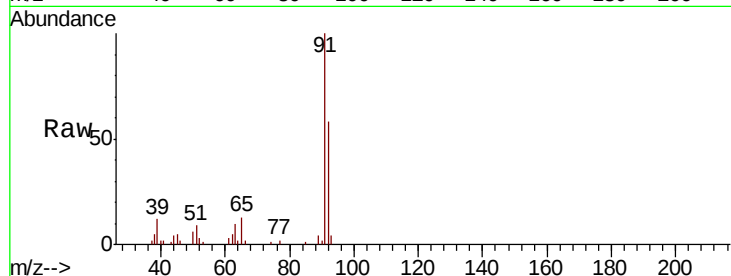
VSTD0.5102

Tot Ion: 91 Resp: 16775

Ion Ratio Lower Upper

91 100

92 57.5 40.5 75.1



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

7.98

10000

8000

6000

4000

2000

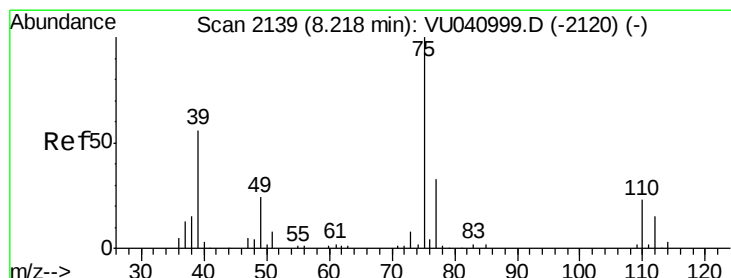
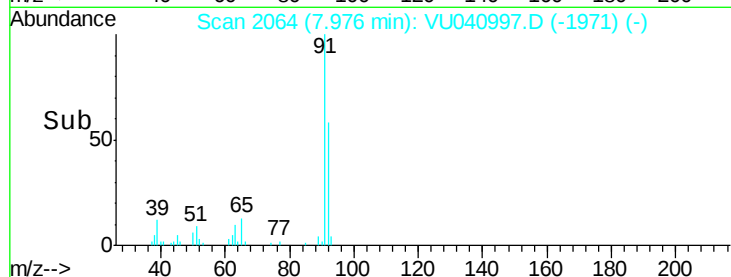
0

Time-->

7.90

7.95

8.00



#44

trans-1,3-Dichloropropene

Concen: 0.373 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU040997.D

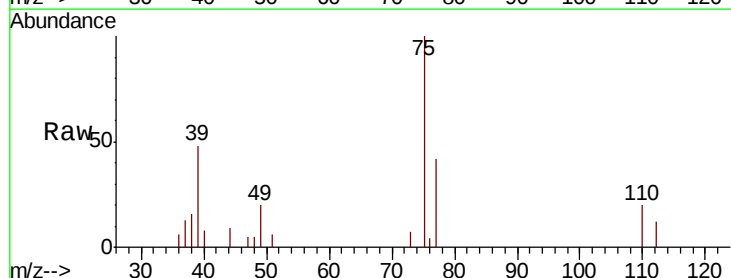
Acq: 28 Oct 2020 16:58

Tgt Ion: 75 Resp: 5914

Ion Ratio Lower Upper

75 100

77 41.7 23.0 42.6



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

8.21

4000

3000

2000

1000

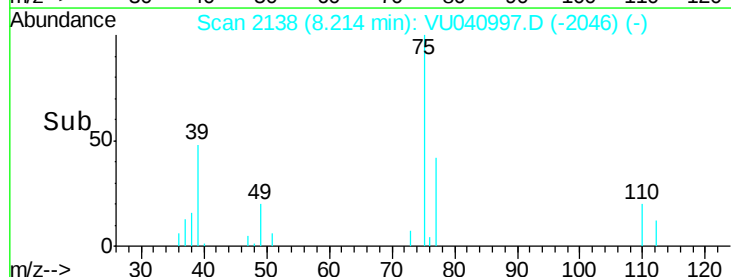
0

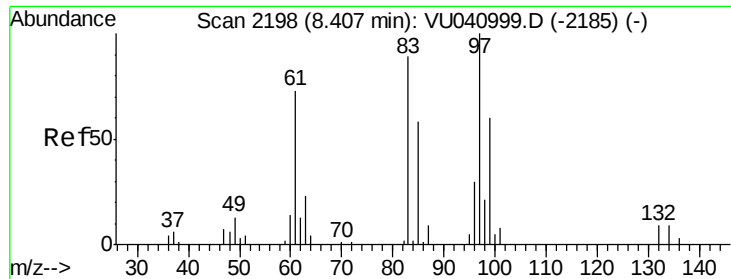
Time-->

8.15

8.20

8.25

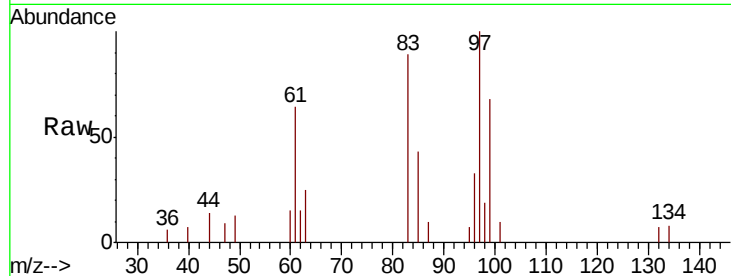




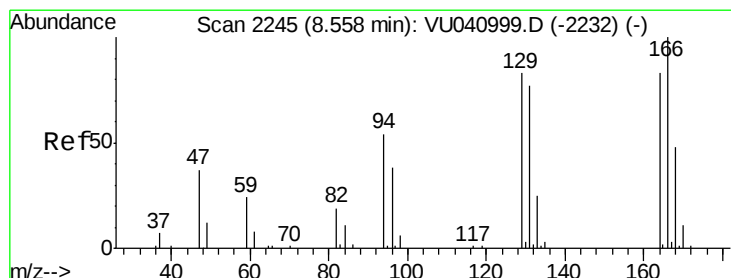
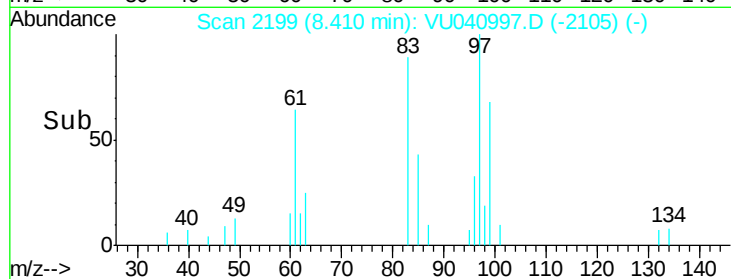
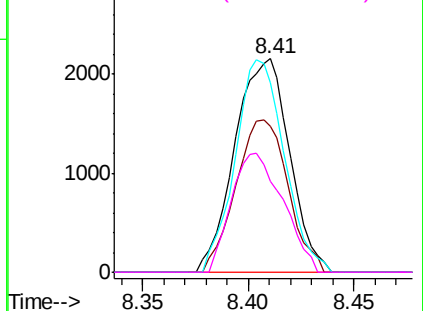
#45
 1,1,2-Trichloroethane
 Concen: 0.448 ug/L
 RT: 8.41 min Scan# 2199
 Delta R.T. 0.00 min
 Lab File: VU040997.D
 Acq: 28 Oct 2020 16:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.5102

Tot Ion:	97	Resp:	3892
Ion	Ratio	Lower	Upper
97	100		
99	68.5	41.8	77.6
83	88.9	62.2	115.6
85	42.8	40.3	74.8

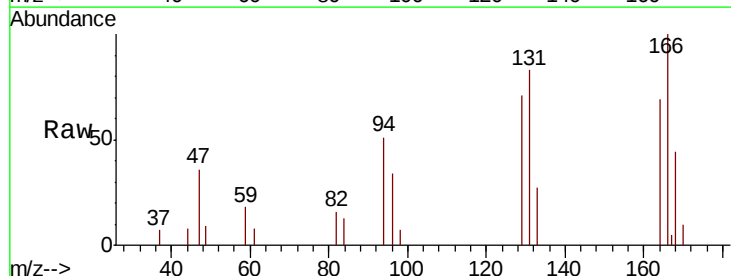


Abundance Ion 96.95 (96.65 to 97.65): VU040997.D (-2185) (-)
 Ion 99.05 (98.75 to 99.75): VU040997.D (-2185) (-)
 Ion 82.95 (82.65 to 83.65): VU040997.D (-2185) (-)
 Ion 85.00 (84.70 to 85.70): VU040997.D (-2185) (-)

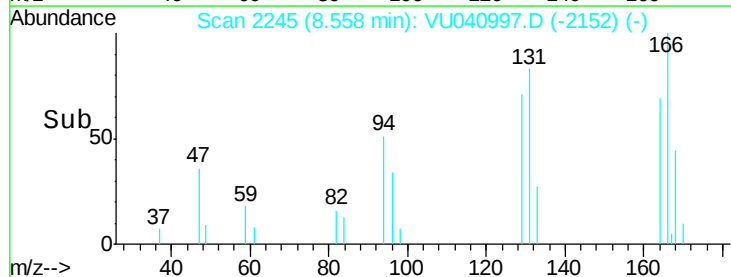
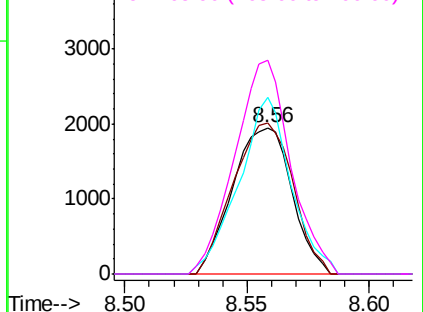


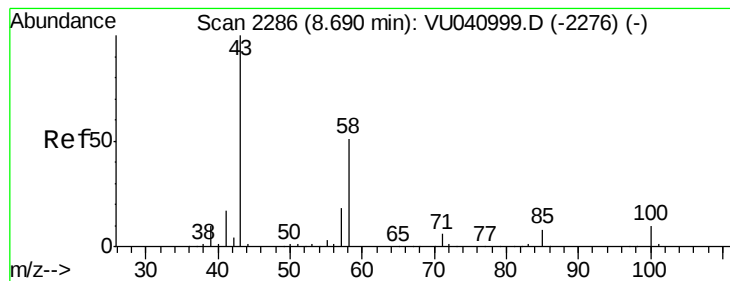
#47
 Tetrachloroethene
 Concen: 0.386 ug/L
 RT: 8.56 min Scan# 2245
 Delta R.T. -0.00 min
 Lab File: VU040997.D
 Acq: 28 Oct 2020 16:58

Tgt Ion:	164	Resp:	3296
Ion	Ratio	Lower	Upper
164	100		
129	103.0	69.9	129.7
131	121.0	65.0	120.6#
166	145.9	84.1	156.1



Abundance Ion 163.90 (163.60 to 164.60): VU040997.D (-2232) (-)
 Ion 128.95 (128.65 to 129.65): VU040997.D (-2232) (-)
 Ion 130.95 (130.65 to 131.65): VU040997.D (-2232) (-)
 Ion 165.90 (165.60 to 166.60): VU040997.D (-2232) (-)





#48

2-Hexanone

Concen: 3.759 ug/L

RT: 8.69 min Scan# 2287

Delta R.T. 0.00 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.5102

Tot Ion: 43 Resp: 26418

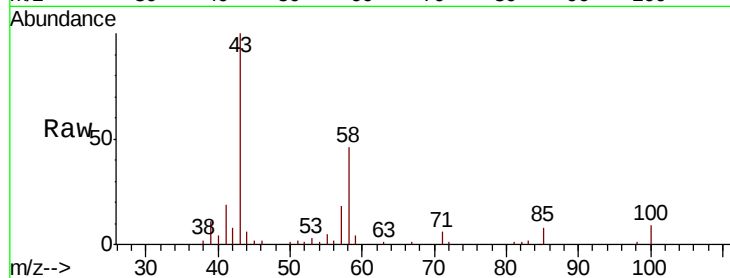
Ion Ratio Lower Upper

43 100

58 49.5 39.9 59.9

57 17.9 14.1 21.1

100 8.5 7.5 11.3

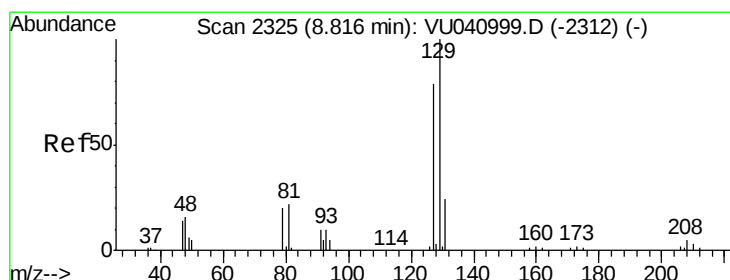
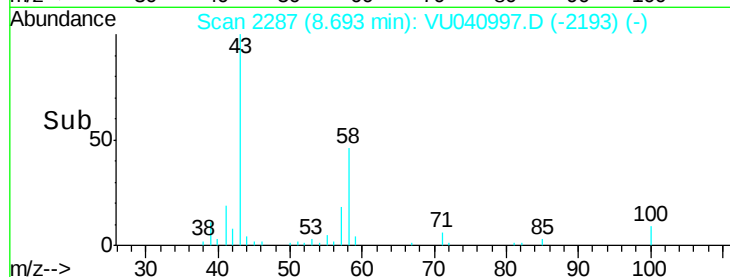
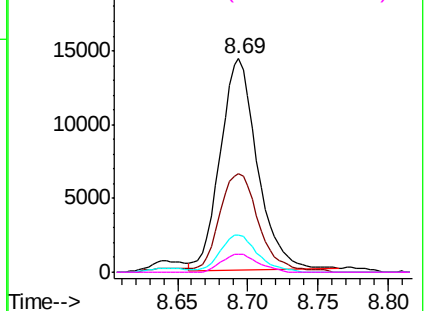


Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 0.419 ug/L

RT: 8.82 min Scan# 2325

Delta R.T. -0.00 min

Lab File: VU040997.D

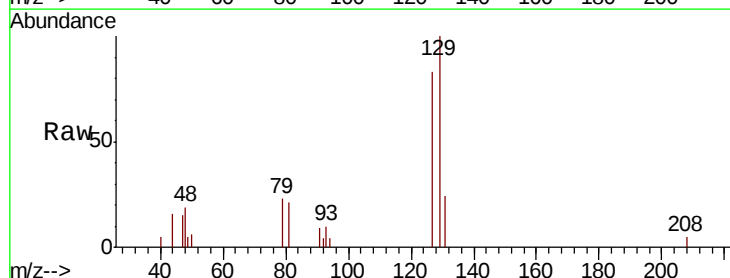
Acq: 28 Oct 2020 16:58

Tgt Ion: 129 Resp: 4186

Ion Ratio Lower Upper

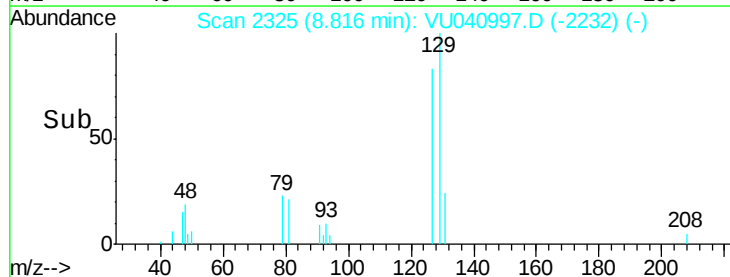
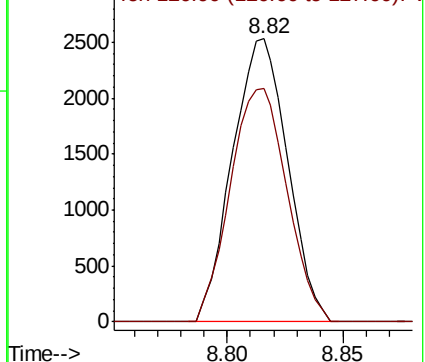
129 100

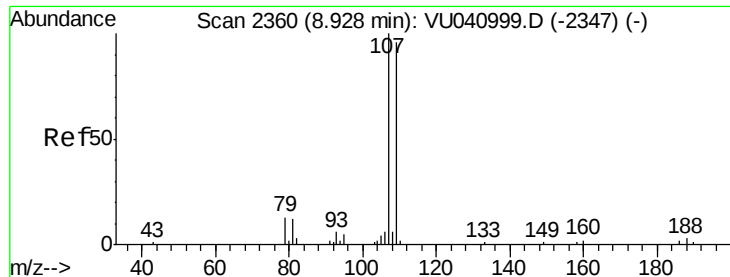
127 82.6 55.3 102.7



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

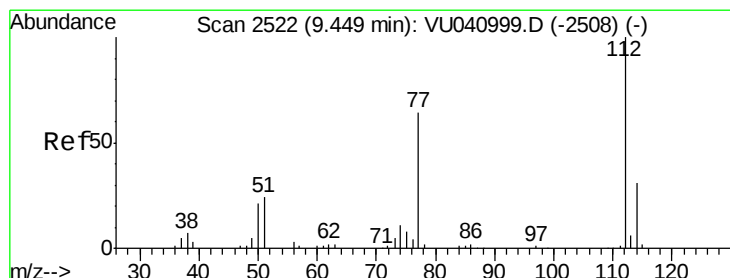
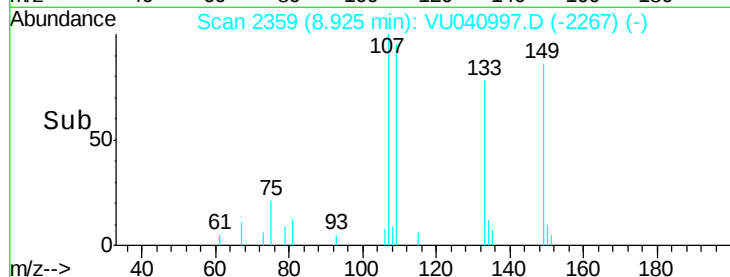
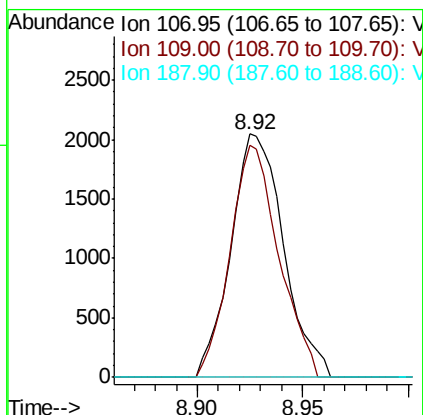
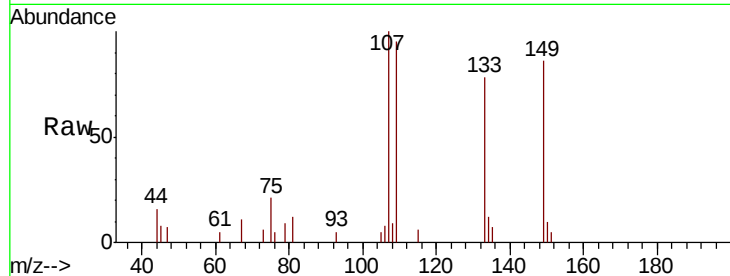




#50
1,2-Dibromoethane
Concen: 0.424 ug/L
RT: 8.92 min Scan# 2359
Delta R.T. -0.00 min
Lab File: VU040997.D
Acq: 28 Oct 2020 16:58

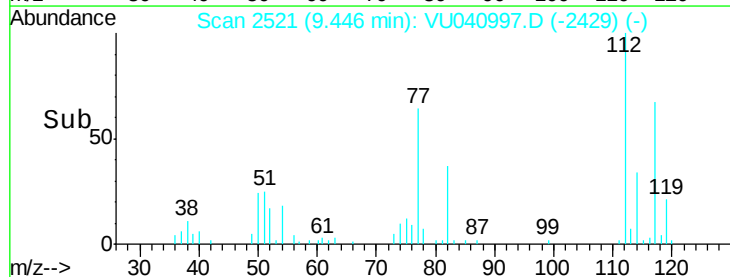
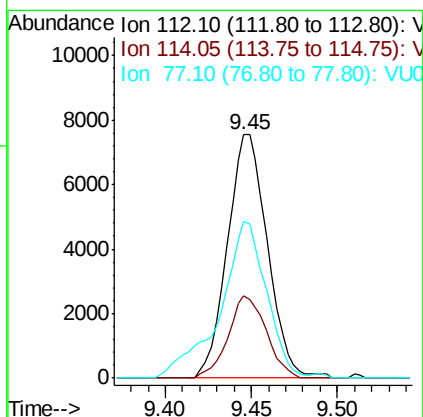
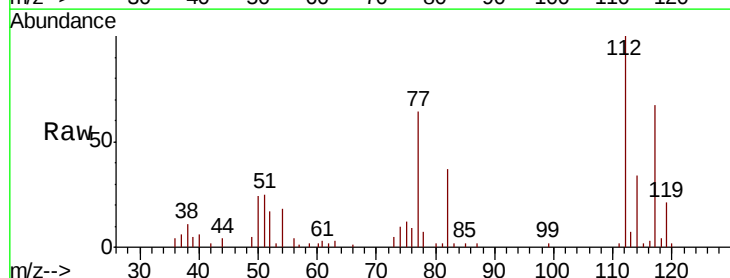
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.5102

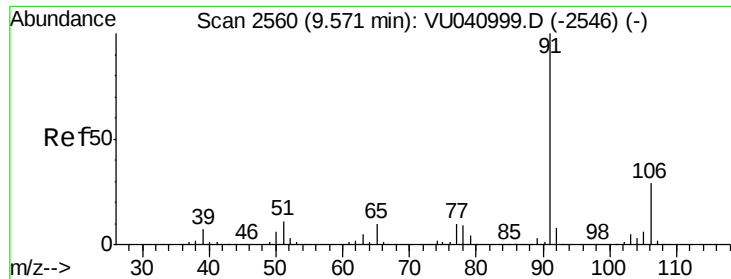
Tot Ion:107 Resp: 3549
Ion Ratio Lower Upper
107 100
109 95.2 67.1 124.5
188 0.0 2.3 3.5#



#51
Chlorobenzene
Concen: 0.413 ug/L
RT: 9.45 min Scan# 2521
Delta R.T. -0.00 min
Lab File: VU040997.D
Acq: 28 Oct 2020 16:58

Tgt Ion:112 Resp: 12216
Ion Ratio Lower Upper
112 100
114 33.6 21.9 40.7
77 64.3 51.4 77.2

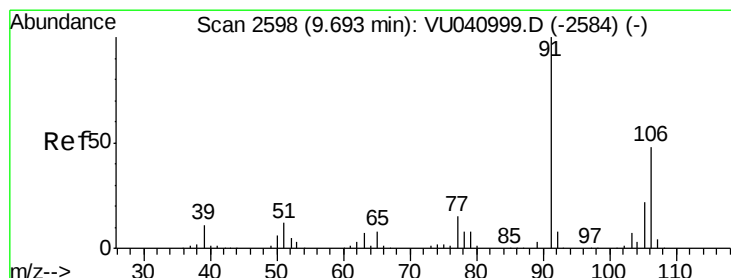
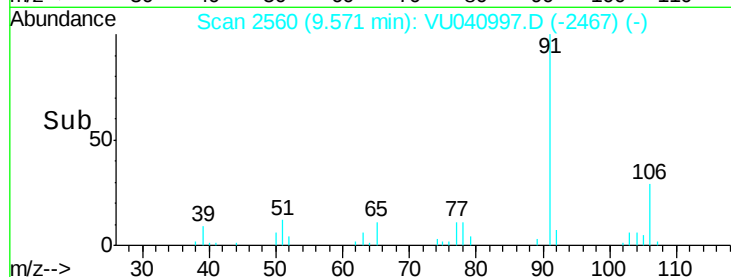
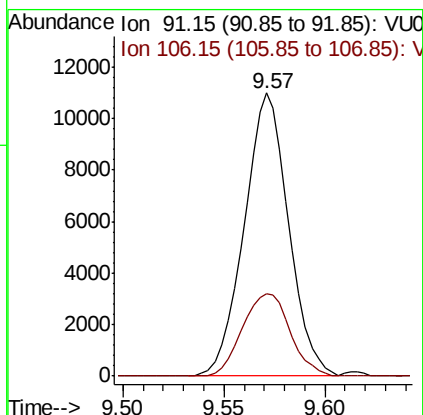
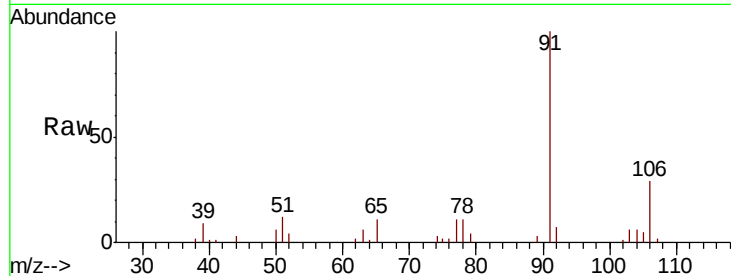




#52
Ethylbenzene
Concen: 0.336 ug/L
RT: 9.57 min Scan# 2560
Delta R.T. -0.00 min
Lab File: VU040997.D
Acq: 28 Oct 2020 16:58

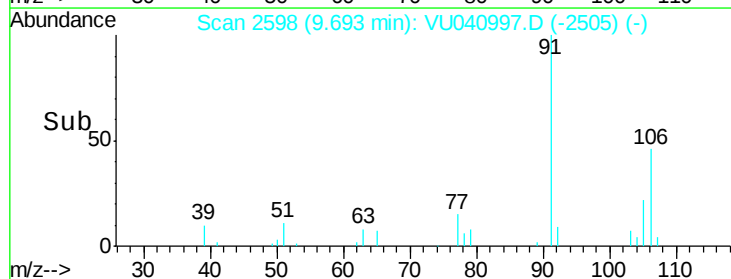
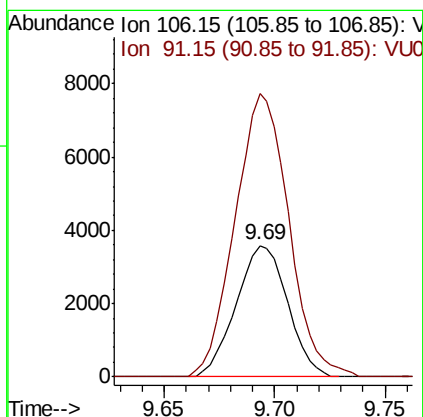
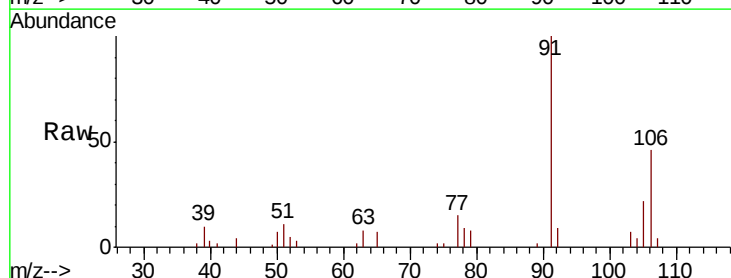
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.5102

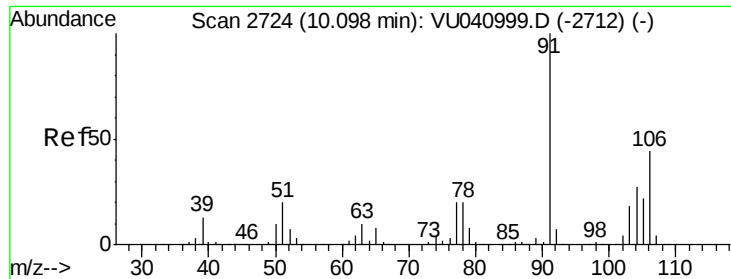
Tot Ion: 91 Resp: 16880
Ion Ratio Lower Upper
91 100
106 28.9 20.6 38.4



#53
m,p-Xylene
Concen: 0.321 ug/L
RT: 9.69 min Scan# 2598
Delta R.T. -0.00 min
Lab File: VU040997.D
Acq: 28 Oct 2020 16:58

Tgt Ion: 106 Resp: 5817
Ion Ratio Lower Upper
106 100
91 215.6 147.6 274.0

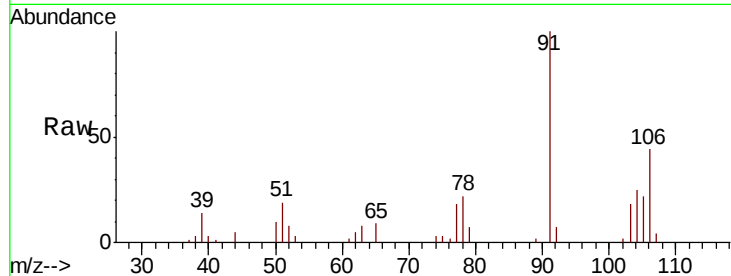




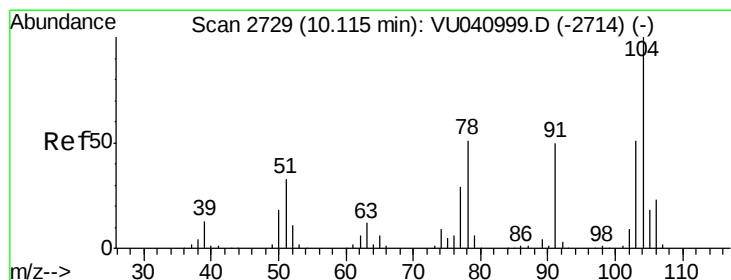
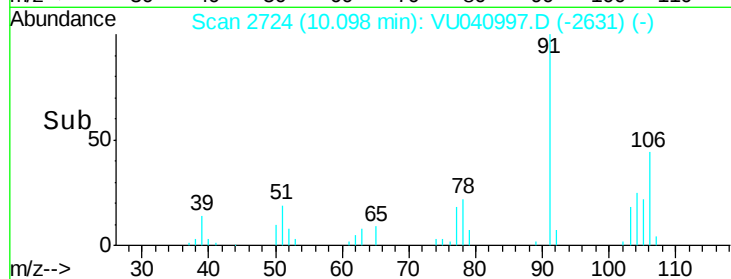
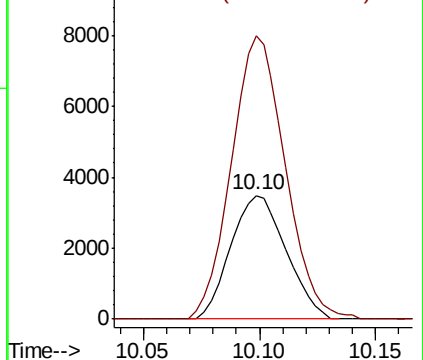
#54
o-Xylene
Concen: 0.330 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. -0.00 min
Lab File: VU040997.D
Acq: 28 Oct 2020 16:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.5102

Tot Ion:106 Resp: 5761
Ion Ratio Lower Upper
106 100
91 228.4 158.3 294.1

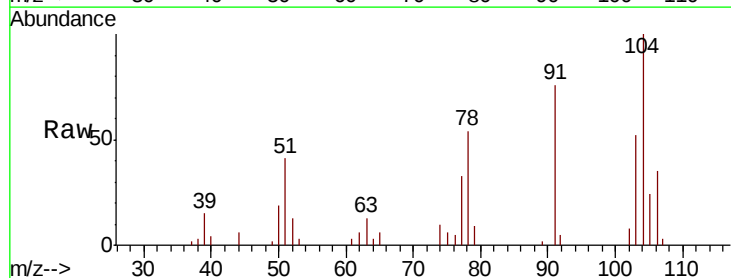


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

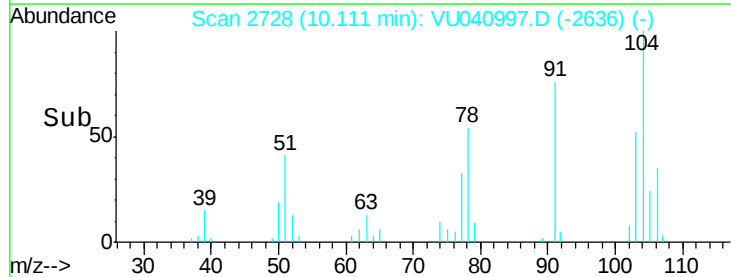
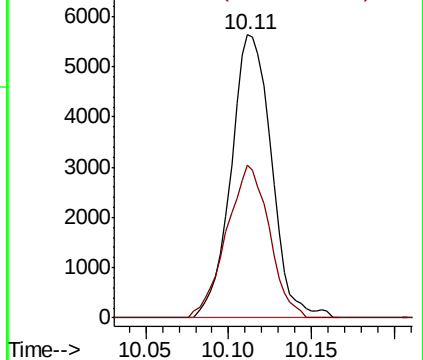


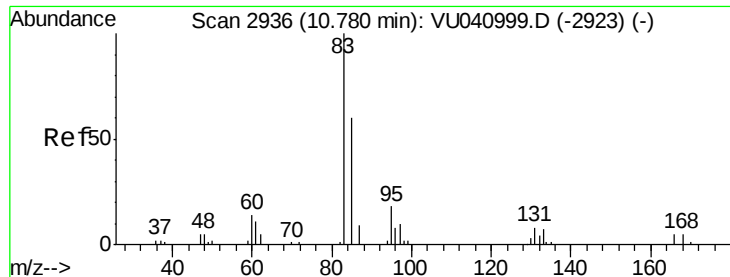
#55
Styrene
Concen: 0.317 ug/L
RT: 10.11 min Scan# 2728
Delta R.T. -0.00 min
Lab File: VU040997.D
Acq: 28 Oct 2020 16:58

Tgt Ion:104 Resp: 9550
Ion Ratio Lower Upper
104 100
78 54.0 35.6 66.2



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0

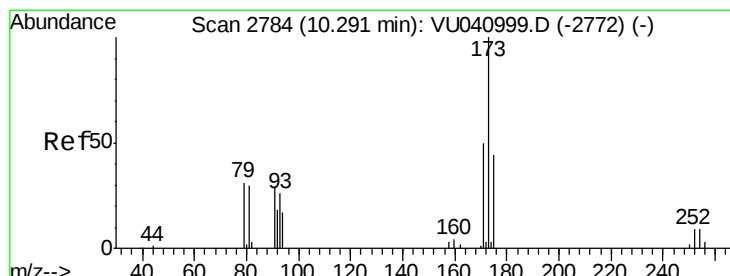
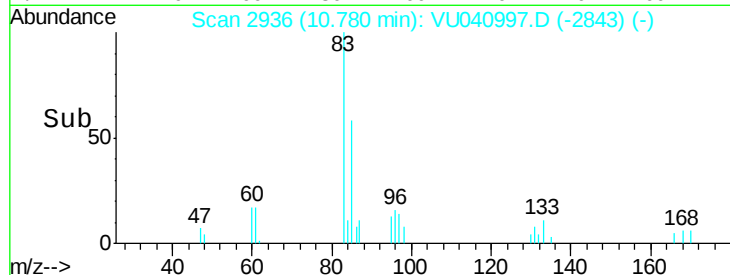
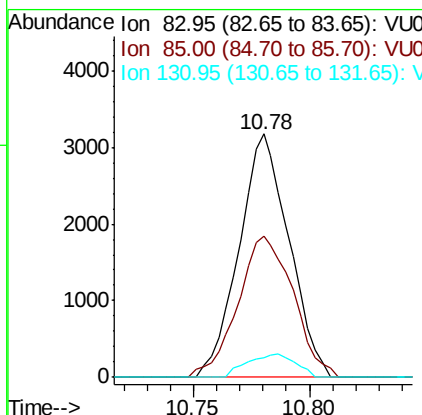
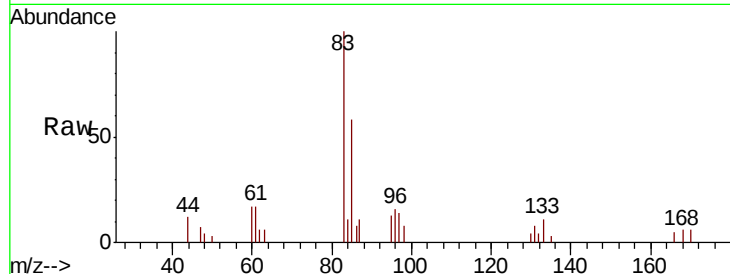




#57
 1,1,2,2-Tetrachloroethane
 Concen: 0.415 ug/L
 RT: 10.78 min Scan# 2936
 Delta R.T. -0.00 min
 Lab File: VU040997.D
 Acq: 28 Oct 2020 16:58

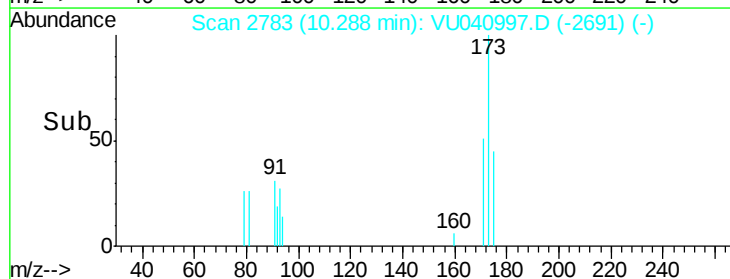
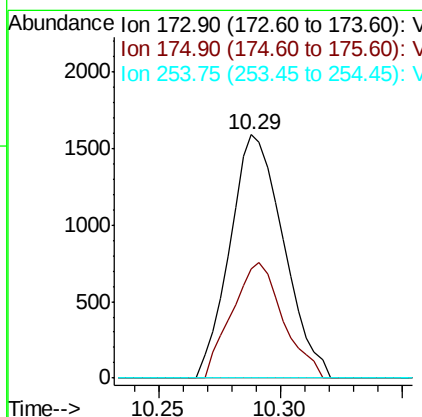
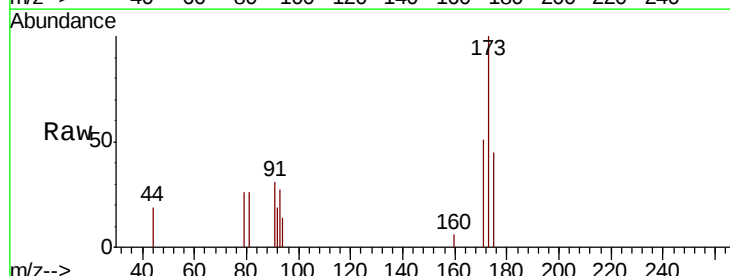
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.5102

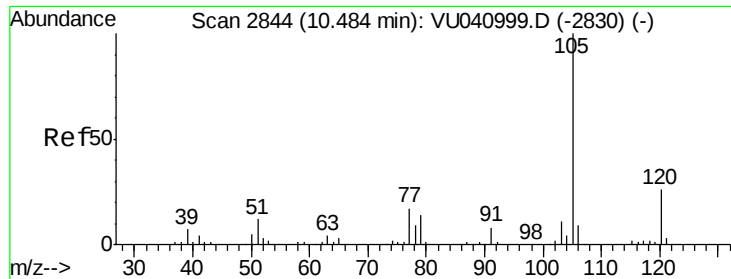
Tot Ion	83	Resp	4747
Ion Ratio	Lower	Upper	
83	100		
85	58.0	42.1	78.3
131	8.1	6.7	10.1



#59
 Bromoform
 Concen: 0.508 ug/L
 RT: 10.29 min Scan# 2783
 Delta R.T. -0.00 min
 Lab File: VU040997.D
 Acq: 28 Oct 2020 16:58

Tgt Ion	173	Resp	2421
Ion Ratio	Lower	Upper	
173	100		
175	45.4	36.7	55.1
254	0.0	6.5	9.7#





#60

Isopropylbenzene

Concen: 0.365 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. -0.00 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

Instrument :

MSVOA_U

ClientSampleID :

VSTD0.5102

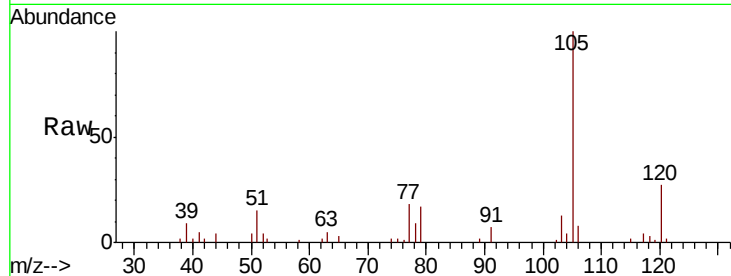
Tot Ion:105 Resp: 14676

Ion Ratio Lower Upper

105 100

120 26.6 20.2 30.4

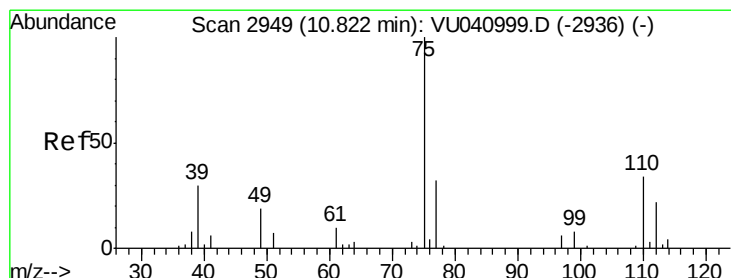
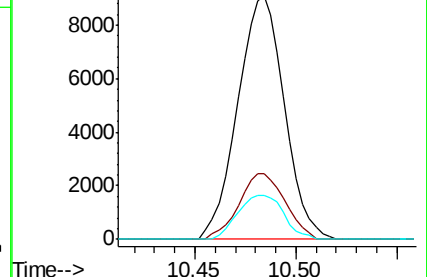
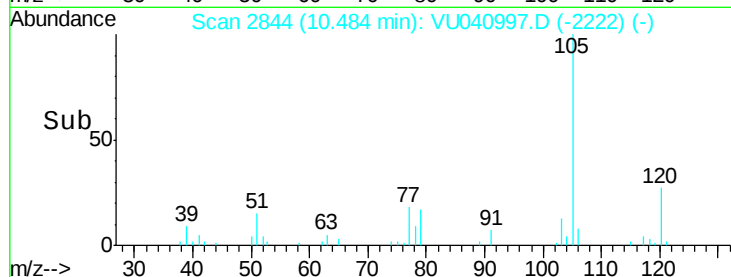
77 17.9 14.4 21.6



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



#61

1,2,3-Trichloropropane

Concen: 0.487 ug/L

RT: 10.82 min Scan# 2948

Delta R.T. -0.00 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

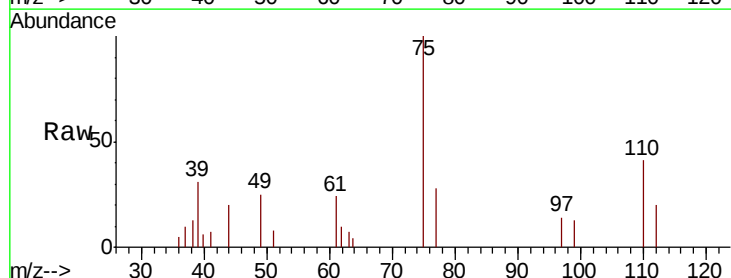
Tgt Ion: 75 Resp: 3705

Ion Ratio Lower Upper

75 100

110 40.3 27.5 41.3

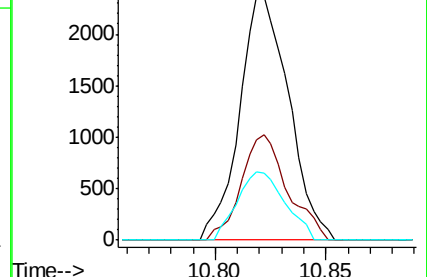
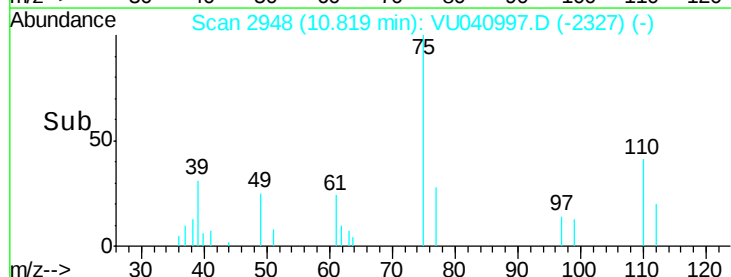
77 26.9 24.9 37.3

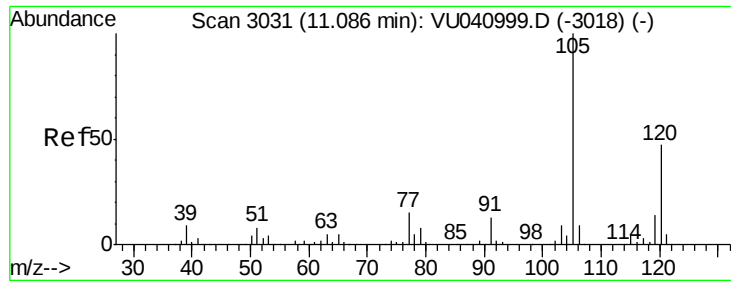


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): V

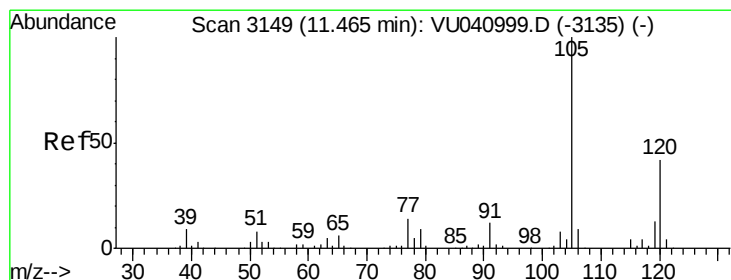
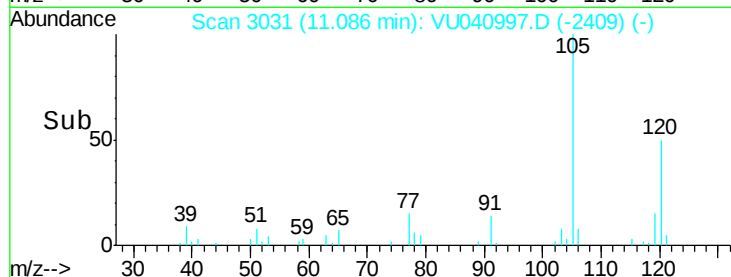
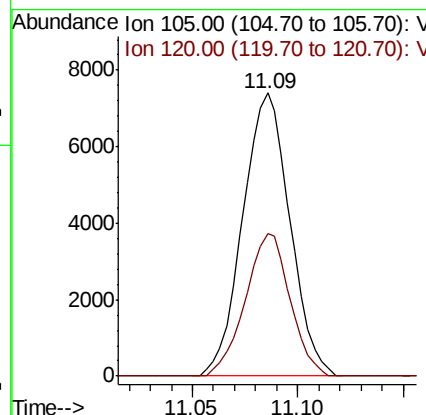
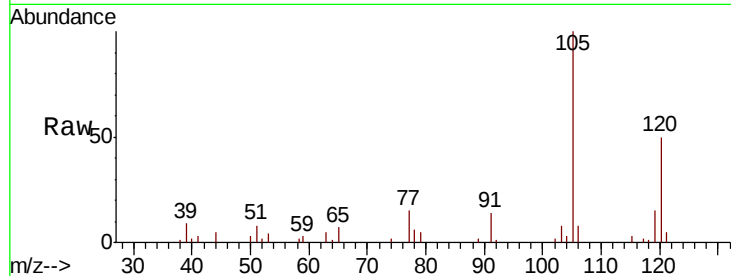




#62
 1,3,5-Trimethylbenzene
 Concen: 0.356 ug/L
 RT: 11.09 min Scan# 3031
 Delta R.T. -0.00 min
 Lab File: VU040997.D
 Acq: 28 Oct 2020 16:58

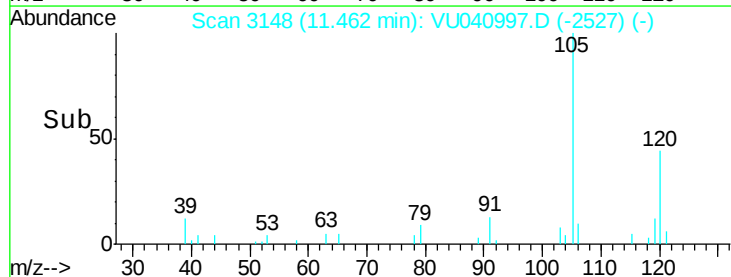
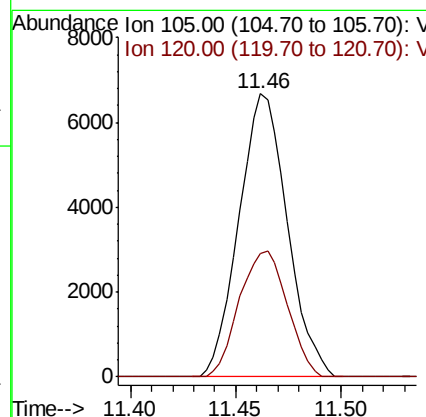
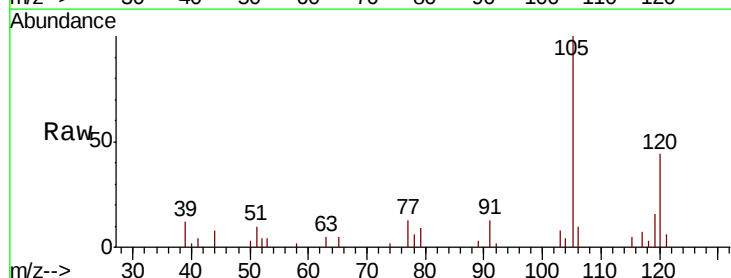
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.5102

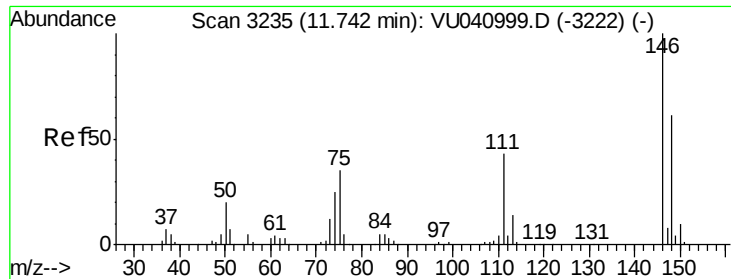
Tot Ion:105 Resp: 11474
 Ion Ratio Lower Upper
 105 100
 120 47.7 38.0 57.0



#63
 1,2,4-Trimethylbenzene
 Concen: 0.325 ug/L
 RT: 11.46 min Scan# 3148
 Delta R.T. -0.00 min
 Lab File: VU040997.D
 Acq: 28 Oct 2020 16:58

Tgt Ion:105 Resp: 10620
 Ion Ratio Lower Upper
 105 100
 120 44.2 34.6 52.0

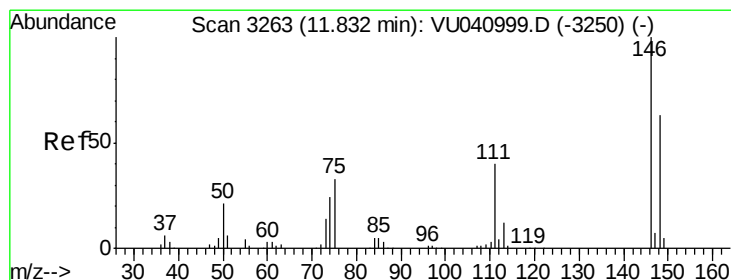
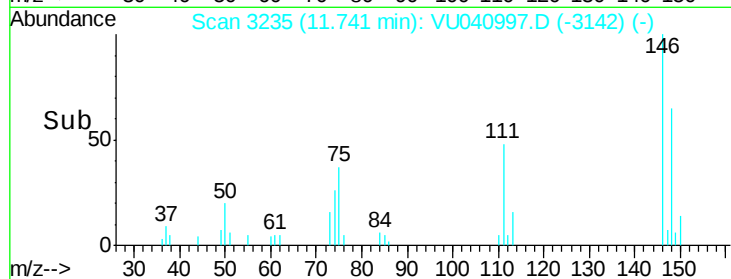
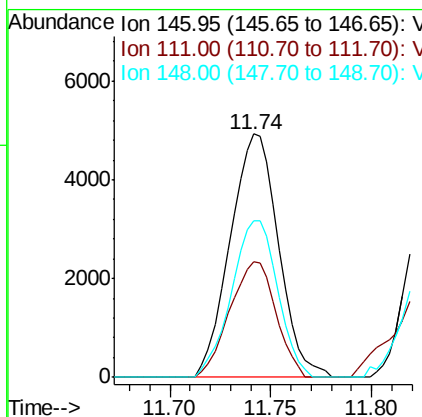
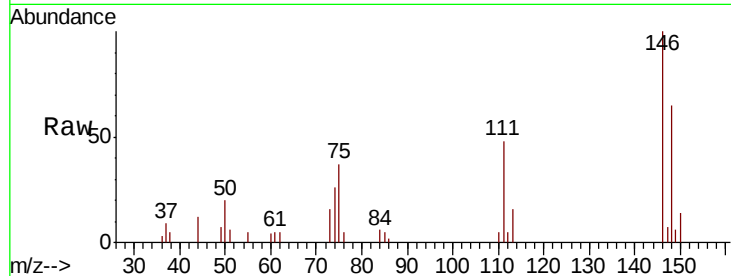




#64
 1,3-Dichlorobenzene
 Concen: 0.413 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU040997.D
 Acq: 28 Oct 2020 16:58

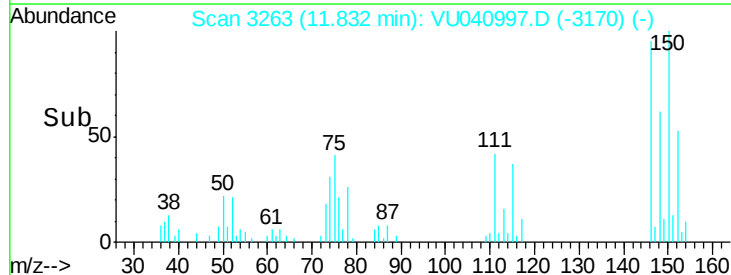
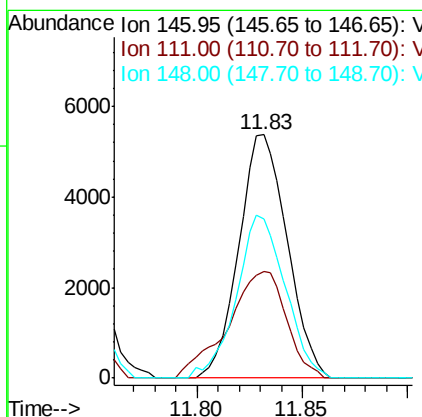
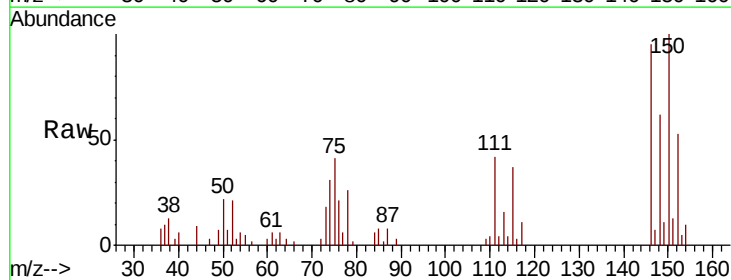
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.5102

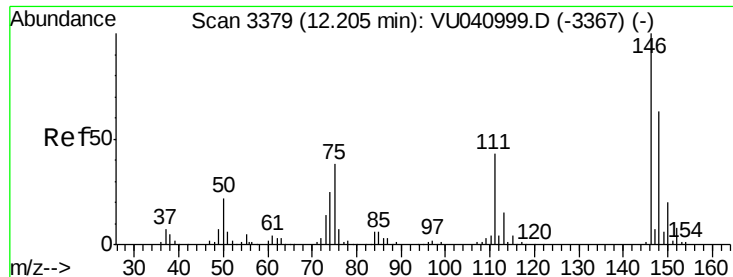
Tot Ion:146 Resp: 8260
 Ion Ratio Lower Upper
 146 100
 111 47.6 30.2 56.0
 148 64.6 42.9 79.7



#65
 1,4-Dichlorobenzene
 Concen: 0.415 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU040997.D
 Acq: 28 Oct 2020 16:58

Tgt Ion:146 Resp: 8569
 Ion Ratio Lower Upper
 146 100
 111 43.8 28.3 52.7
 148 65.2 44.1 81.9





#67

1,2-Dichlorobenzene

Concen: 0.443 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.5102

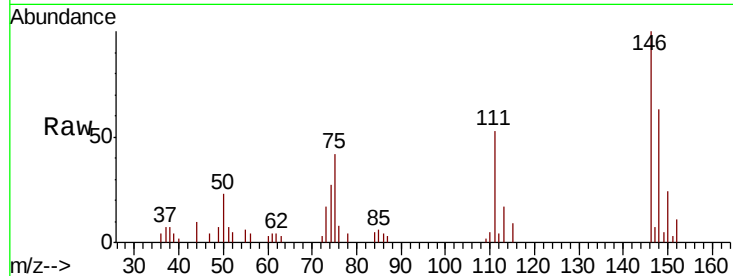
Tot Ion:146 Resp: 8342

Ion Ratio Lower Upper

146 100

111 52.5 34.7 52.1#

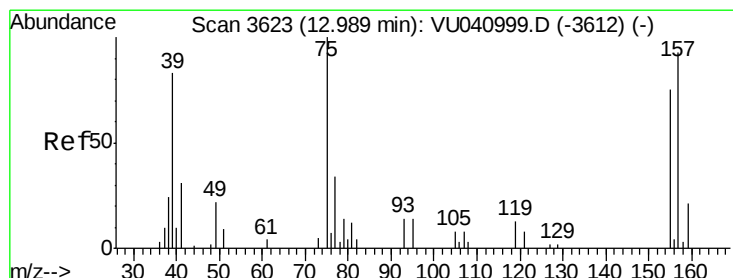
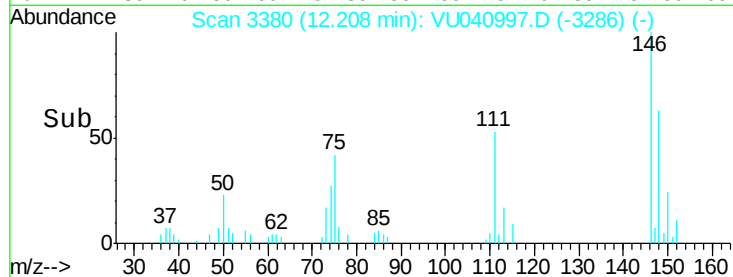
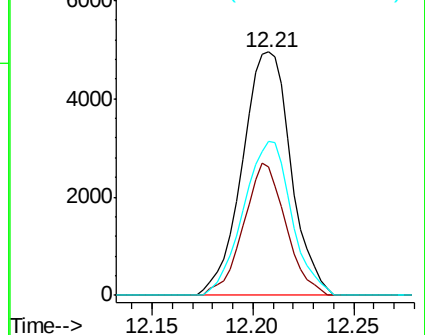
148 63.4 50.7 76.1



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



#68

1,2-Dibromo-3-chloropropane

Concen: 0.421 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VU040997.D

Acq: 28 Oct 2020 16:58

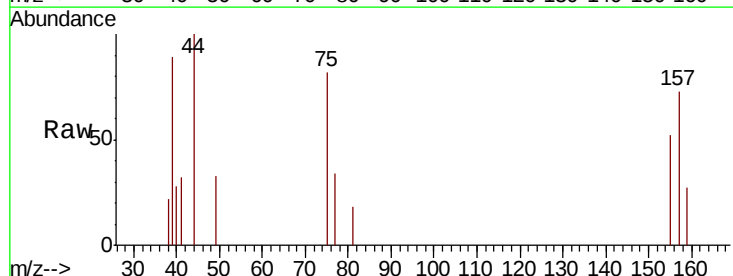
Tgt Ion: 75 Resp: 753

Ion Ratio Lower Upper

75 100

155 64.0 60.2 90.2

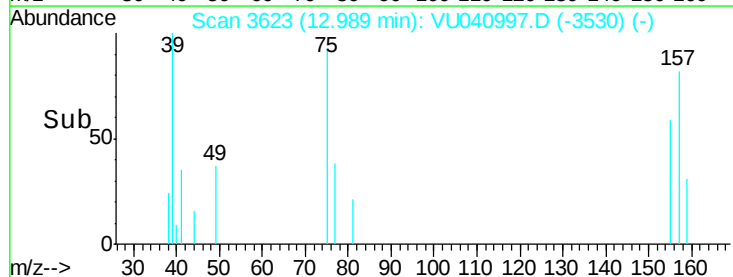
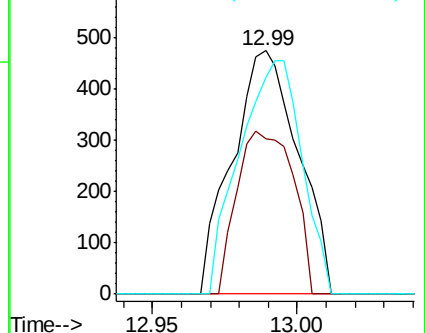
157 89.1 74.4 111.6

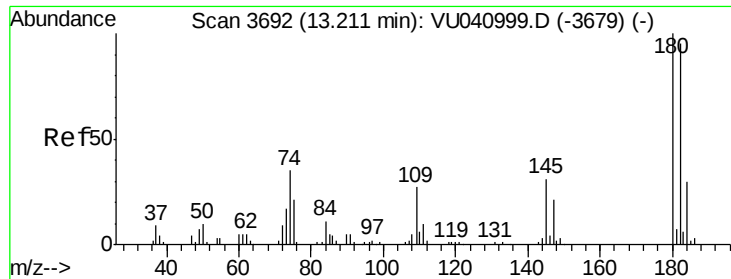


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

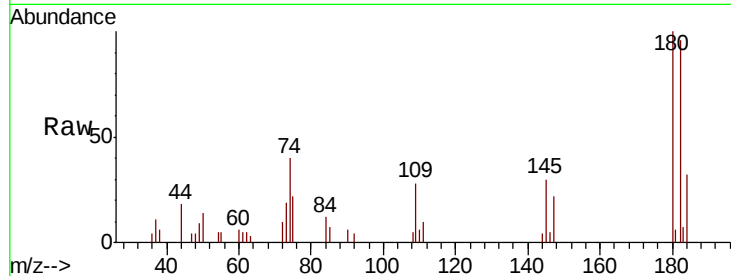




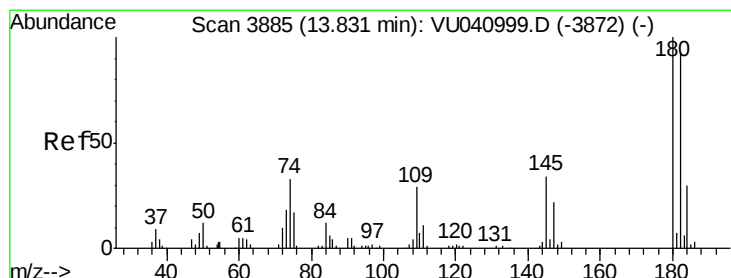
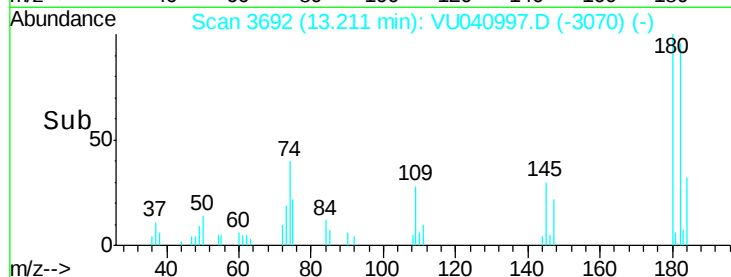
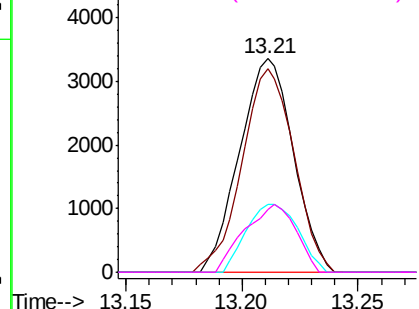
#69
 1,3,5-Trichlorobenzene
 Concen: 0.386 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. -0.00 min
 Lab File: VU040997.D
 Acq: 28 Oct 2020 16:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.5102

Tot Ion:180 Resp: 5411
 Ion Ratio Lower Upper
 180 100
 182 92.1 76.9 115.3
 184 30.6 23.8 35.8
 145 30.2 25.2 37.8

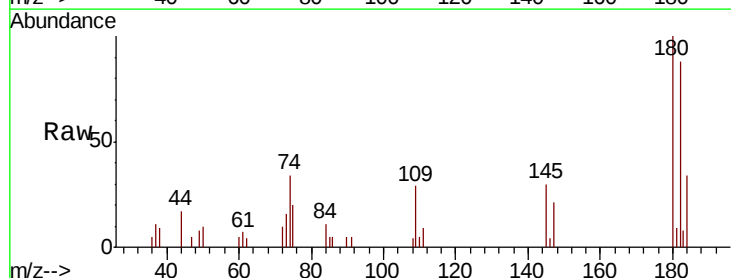


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

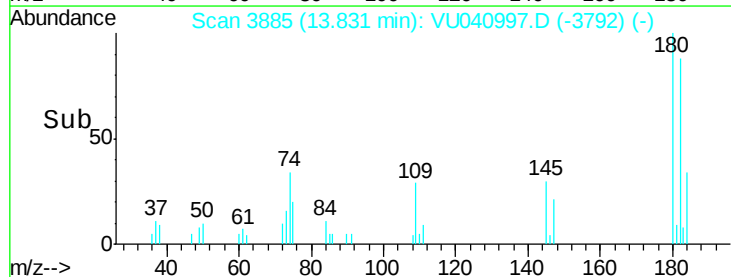
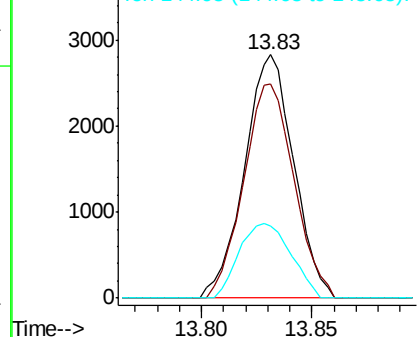


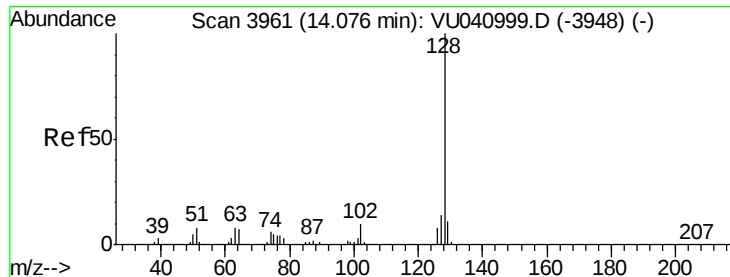
#70
 1,2,4-trichlorobenzene
 Concen: 0.387 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VU040997.D
 Acq: 28 Oct 2020 16:58

Tgt Ion:180 Resp: 4376
 Ion Ratio Lower Upper
 180 100
 182 89.9 74.5 111.7
 145 32.3 26.6 39.8



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

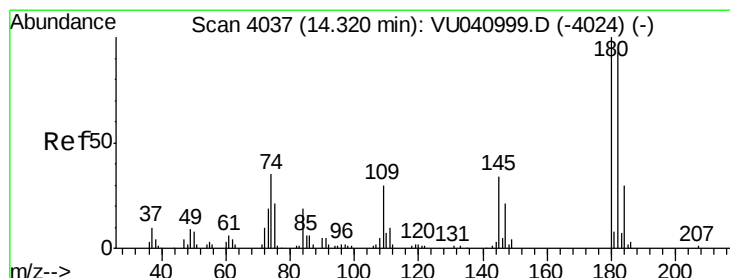
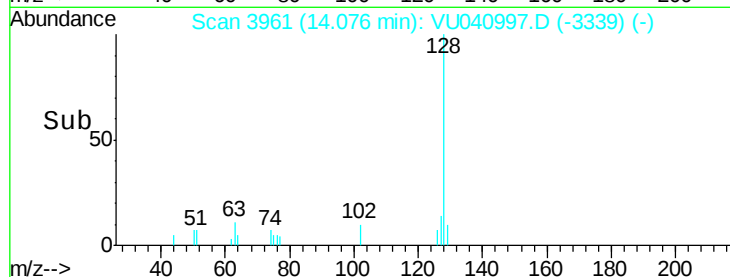
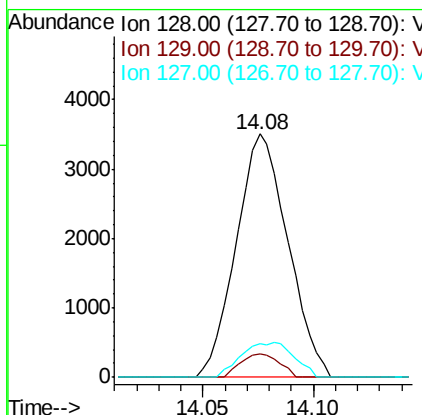
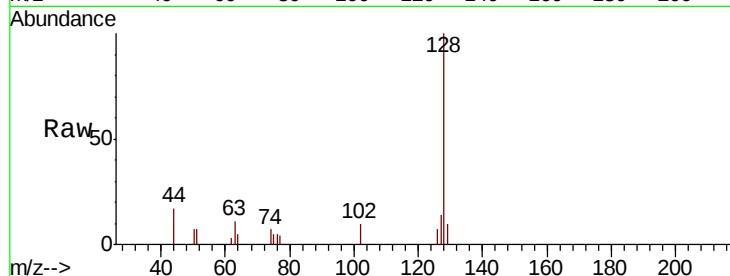




#71
Naphthalene
Concen: 0.292 ug/L
RT: 14.08 min Scan# 3961
Delta R.T. -0.00 min
Lab File: VU040997.D
Acq: 28 Oct 2020 16:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.5102

Tot Ion:128 Resp: 5686
Ion Ratio Lower Upper
128 100
129 7.3 8.8 13.2#
127 14.6 11.2 16.8



#72
1,2,3-Trichlorobenzene
Concen: 0.362 ug/L
RT: 14.32 min Scan# 4036
Delta R.T. -0.00 min
Lab File: VU040997.D
Acq: 28 Oct 2020 16:58

Tgt Ion:180 Resp: 3700
Ion Ratio Lower Upper
180 100
182 94.5 76.7 115.1
145 35.7 27.4 41.0

