

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102620\
 Data File : VU040950.D
 Acq On : 26 Oct 2020 17:34
 Operator : SY/MD
 Sample : L4492-05
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AN3

Quant Time: Oct 27 03:16:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 27 03:00:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	56819	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	57243	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	24265	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	14430	3.02	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	60.40%
7) Chloroethane-d5	1.92	69	14744	4.02	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.40%
11) 1,1-Dichloroethene-d2	2.58	63	24574	2.62	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	52.40%#
20) 2-Butanone-d5	4.67	46	91440	58.17	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	116.34%
24) Chloroform-d	5.08	84	38109	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.40%
26) 1,2-Dichloroethane-d4	5.72	65	23594	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.20%
32) Benzene-d6	5.74	84	64839	4.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.80%
36) 1,2-Dichloropropane-d6	6.70	67	23288	4.67	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.40%
41) Toluene-d8	7.91	98	49129	3.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	70.80%
43) trans-1,3-Dichloropropene-	8.19	79	9038	4.18	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.60%
46) 2-Hexanone-d5	8.64	63	62765	53.95	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.90%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	23417	5.06	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	22696	5.33	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.52	50	911	0.168	ug/L	91
8) Chloroethane	1.94	64	839	0.248	ug/L #	65
13) Acetone	2.69	43	20810	19.364	ug/L	95
14) Carbon disulfide	2.81	76	832	0.062	ug/L #	74
15) Methyl Acetate	2.98	43	577	0.235	ug/L #	53
25) Chloroform	5.10	83	1299	0.159	ug/L	100
27) 1,2-Dichloroethane	5.80	62	333	0.055	ug/L #	74
30) Cyclohexane	5.41	56	1035	0.150	ug/L #	84
33) Benzene	5.79	78	19610	1.146	ug/L	100
35) Methylcyclohexane	6.78	83	1362	0.210	ug/L #	85
37) 1,2-Dichloropropane	6.70	63	2638	0.570	ug/L #	86
39) cis-1,3-Dichloropropene	7.57	75	607	0.095	ug/L #	66
42) Toluene	7.98	91	28717	1.656	ug/L	99
44) trans-1,3-Dichloropropene	8.19	75	399	0.067	ug/L #	41
48) 2-Hexanone	8.69	43	1679	0.604	ug/L #	83
52) Ethylbenzene	9.57	91	2189	0.120	ug/L	88
53) m,p-Xylene	9.69	106	2178	0.327	ug/L	80

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Response via : Initial Calibration

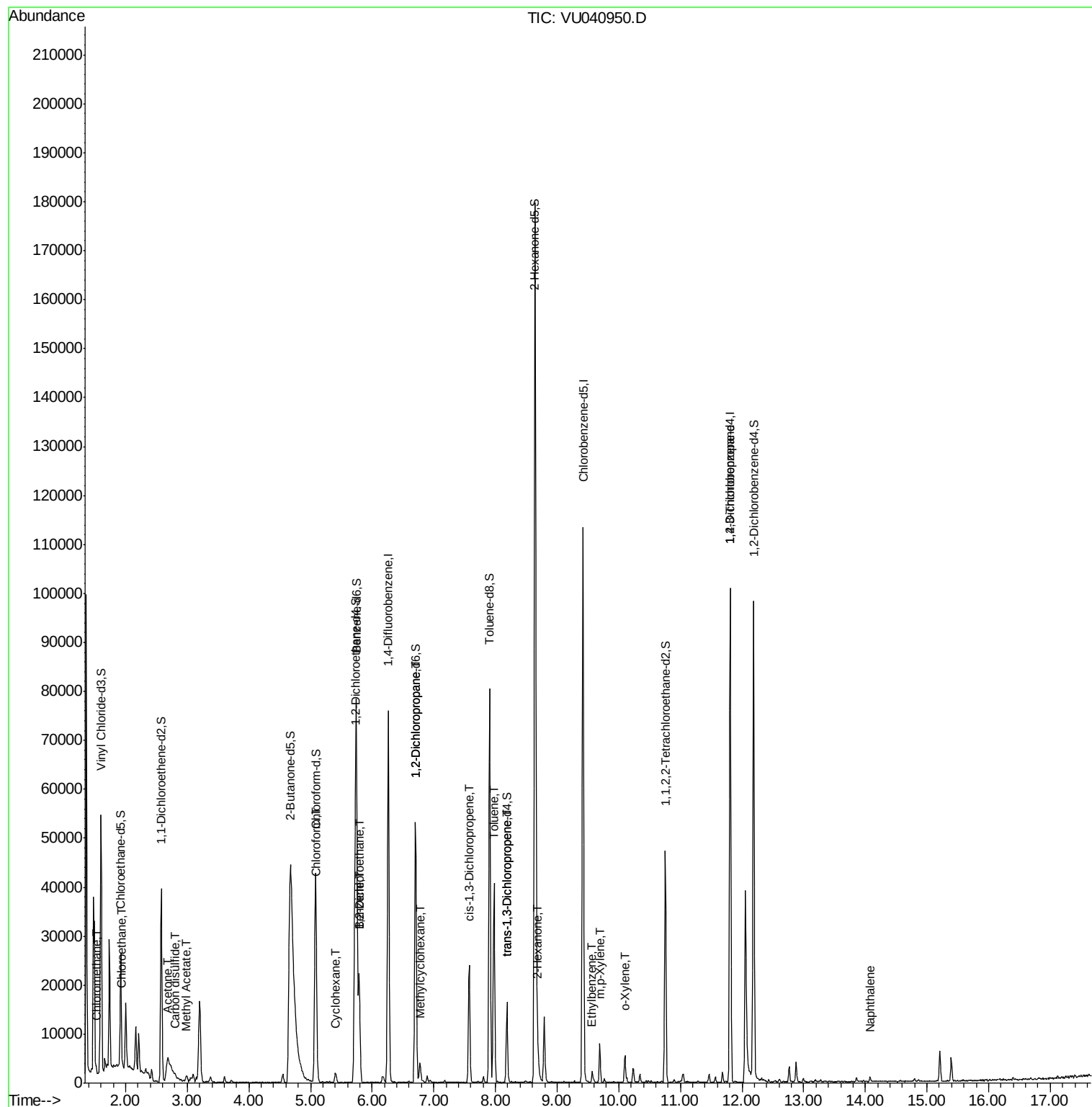
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.10	106	1556	0.251	ug/L	91
59) 1,2,3-Trichloropropane	11.81	75	3358	0.974	ug/L	89
69) Naphthalene	14.08	128	1095	0.151	ug/L #	82

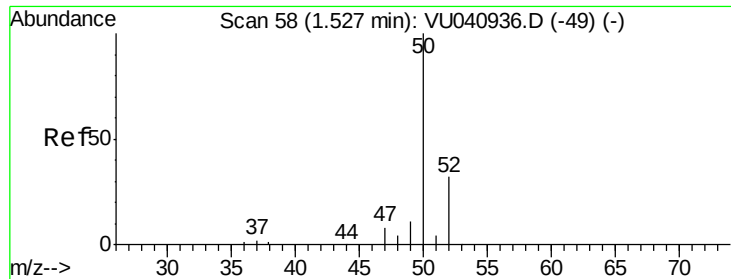
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.168 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU040950.D

Acq: 26 Oct 2020 17:34

Instrument :

MSVOA_U

ClientSampleId :

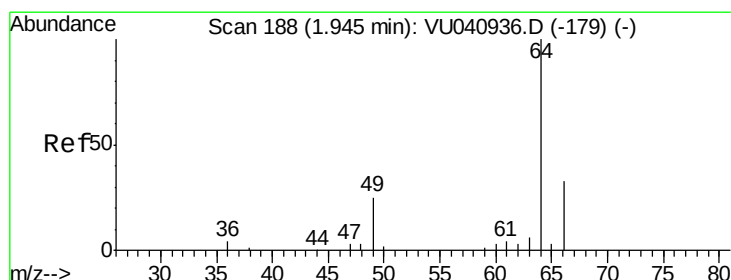
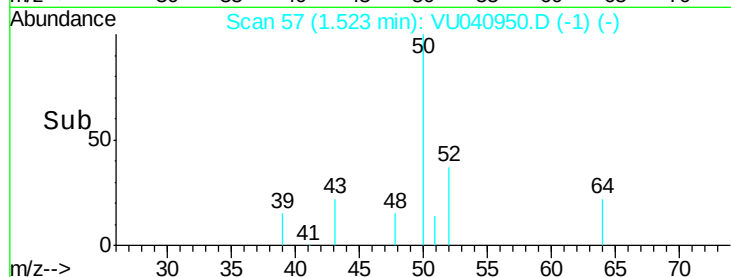
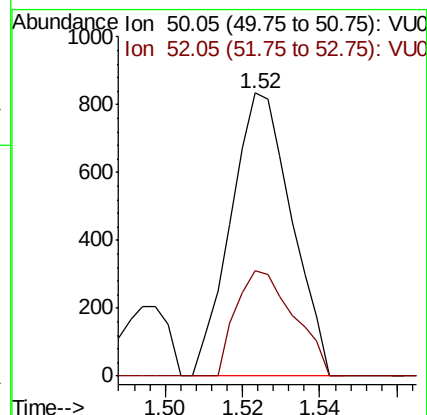
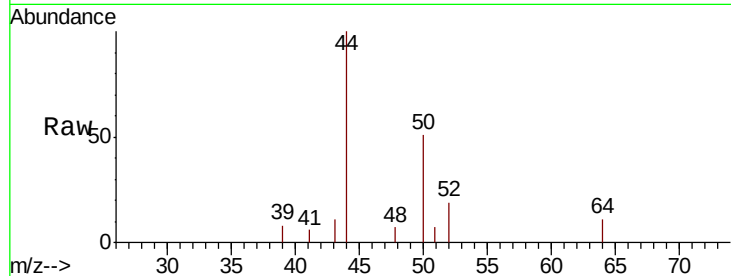
C0AN3

Tot Ion: 50 Resp: 911

Ion Ratio Lower Upper

50 100

52 37.1 22.4 41.6



#8

Chloroethane

Concen: 0.248 ug/L

RT: 1.94 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU040950.D

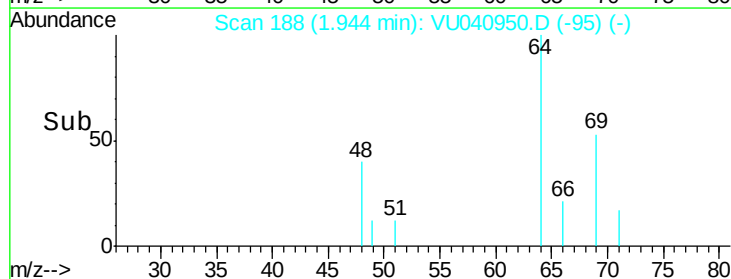
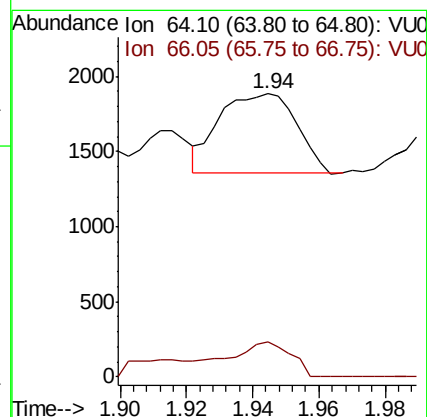
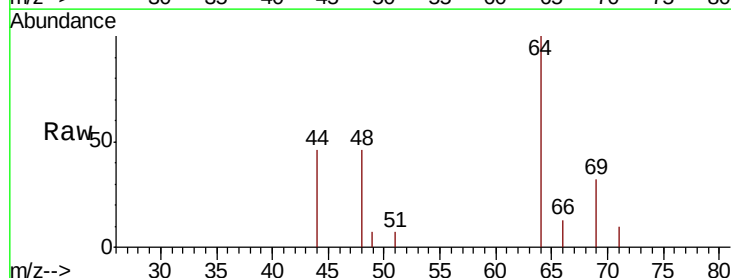
Acq: 26 Oct 2020 17:34

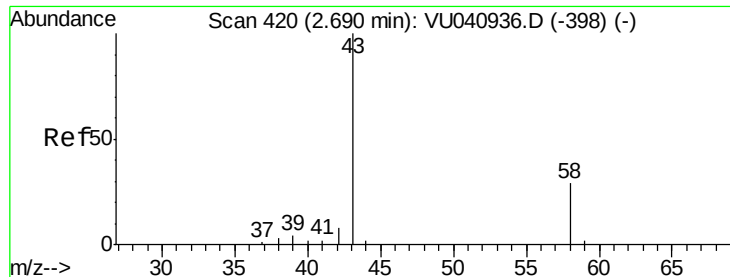
Tgt Ion: 64 Resp: 839

Ion Ratio Lower Upper

64 100

66 12.5 22.3 41.5#





#13

Acetone

Concen: 19.364 ug/L

RT: 2.69 min Scan# 419

Delta R.T. -0.00 min

Lab File: VU040950.D

Acq: 26 Oct 2020 17:34

Instrument :

MSVOA_U

ClientSampleId :

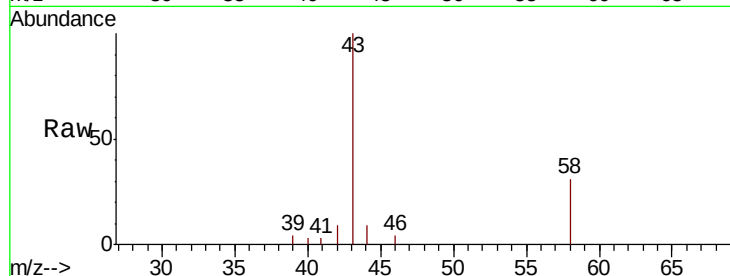
C0AN3

Tot Ion: 43 Resp: 20810

Ion Ratio Lower Upper

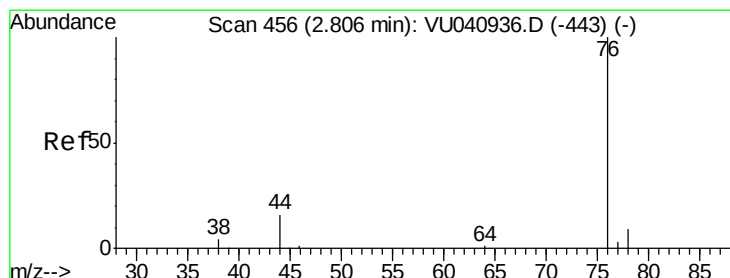
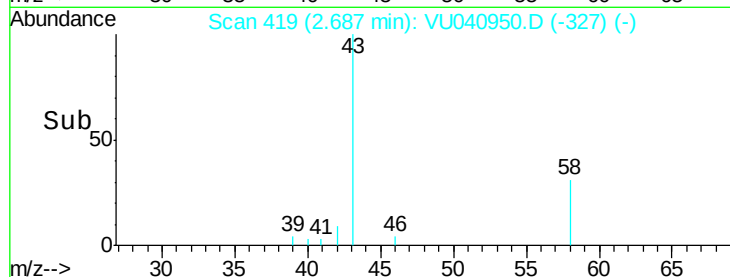
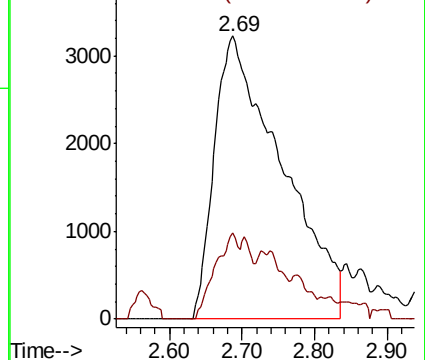
43 100

58 10.6 0.0 25.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 0.062 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU040950.D

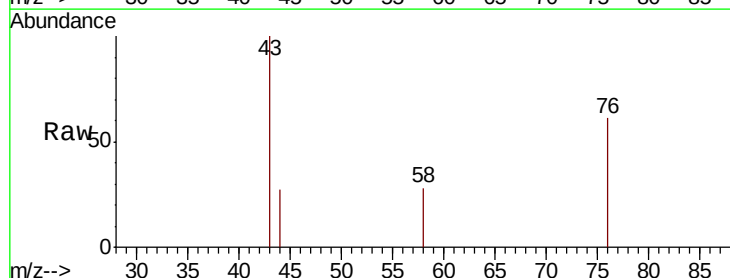
Acq: 26 Oct 2020 17:34

Tgt Ion: 76 Resp: 832

Ion Ratio Lower Upper

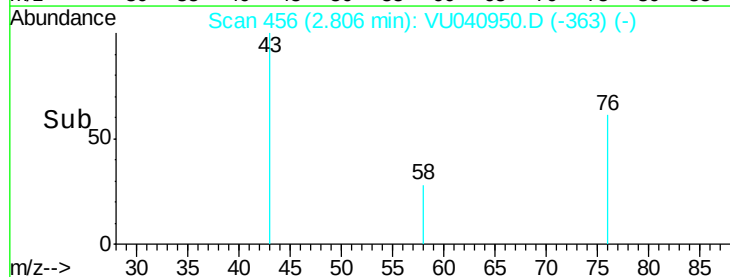
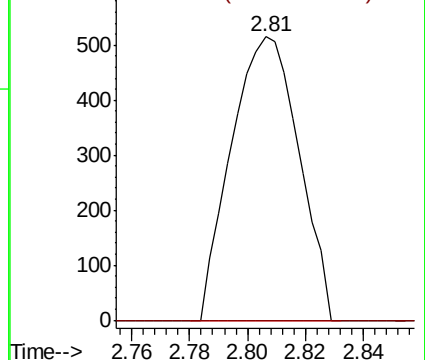
76 100

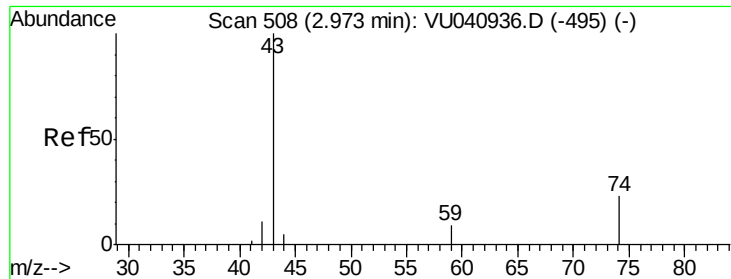
78 0.0 7.5 11.3#



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

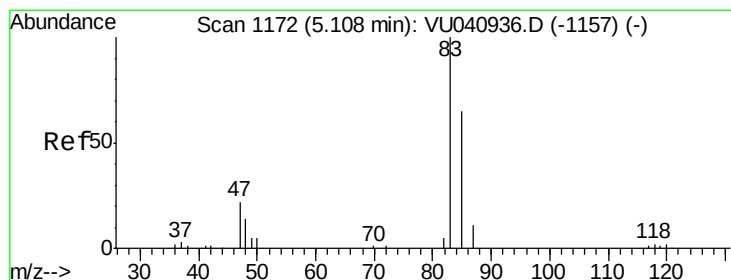
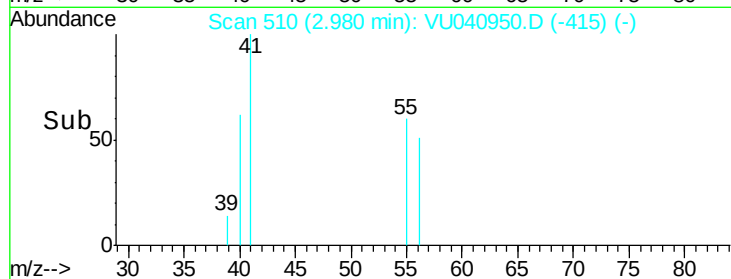
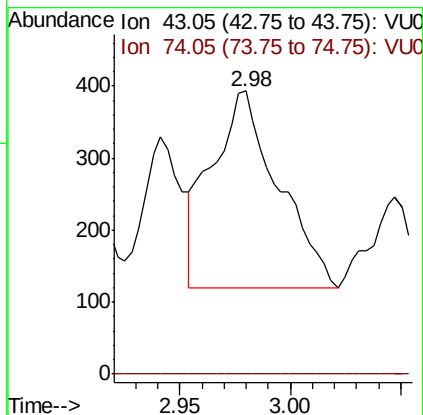
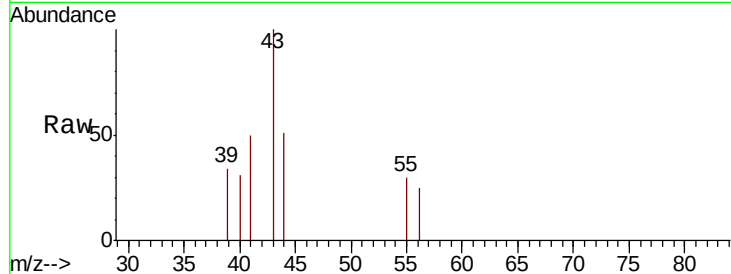




#15
Methvl Acetate
Concen: 0.235 ug/L
RT: 2.98 min Scan# 510
Delta R.T. 0.01 min
Lab File: VU040950.D
Acq: 26 Oct 2020 17:34

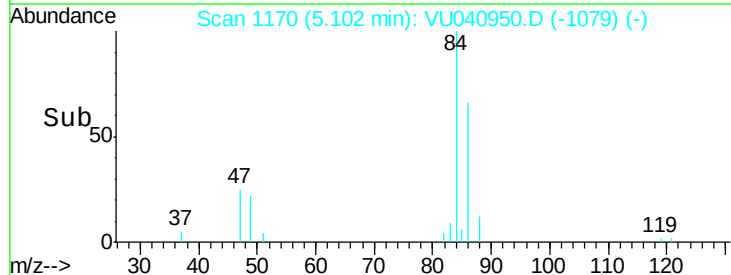
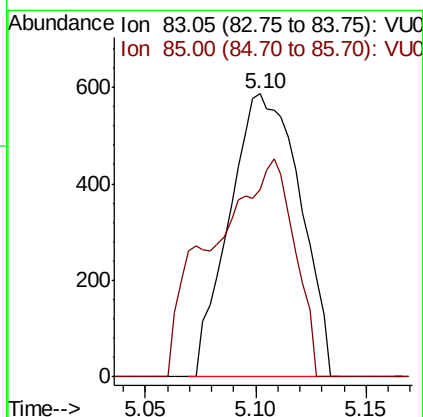
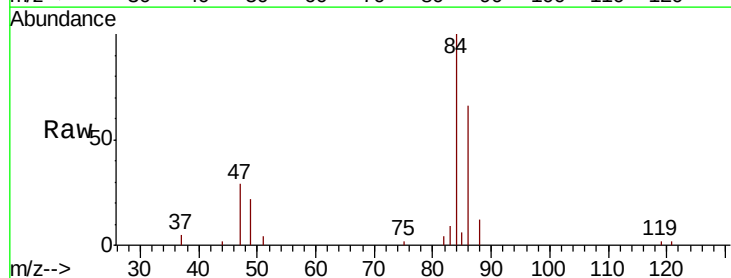
Instrument :
MSVOA_U
ClientSampleId :
C0AN3

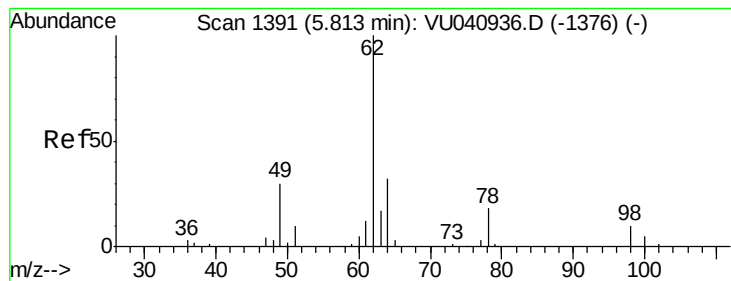
Tot Ion: 43 Resp: 577
Ion Ratio Lower Upper
43 100
74 0.0 18.3 27.5#



#25
Chloroform
Concen: 0.159 ug/L
RT: 5.10 min Scan# 1170
Delta R.T. -0.01 min
Lab File: VU040950.D
Acq: 26 Oct 2020 17:34

Tgt Ion: 83 Resp: 1299
Ion Ratio Lower Upper
83 100
85 65.9 46.1 85.7





#27

1,2-Dichloroethane

Concen: 0.055 ug/L

RT: 5.80 min Scan# 1387

Delta R.T. -0.01 min

Lab File: VU040950.D

Acq: 26 Oct 2020 17:34

Instrument :

MSVOA_U

ClientSampleId :

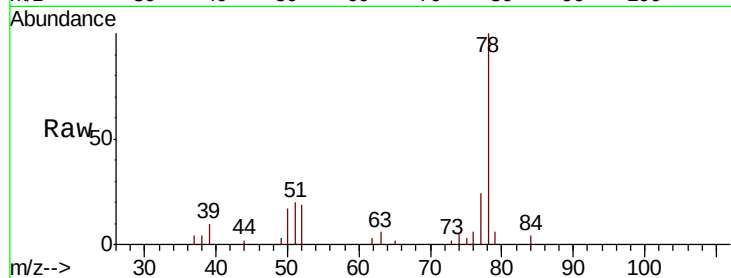
C0AN3

Tot Ion: 62 Resp: 333

Ion Ratio Lower Upper

62 100

98 0.0 7.6 11.4#



Abundance Ion 62.00 (61.70 to 62.70): VU040936.D (-1376) (-)

Ion 98.05 (97.75 to 98.75): VU040936.D (-1376) (-)

5.80

250

200

150

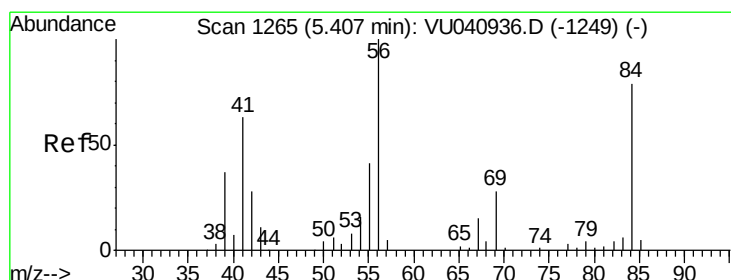
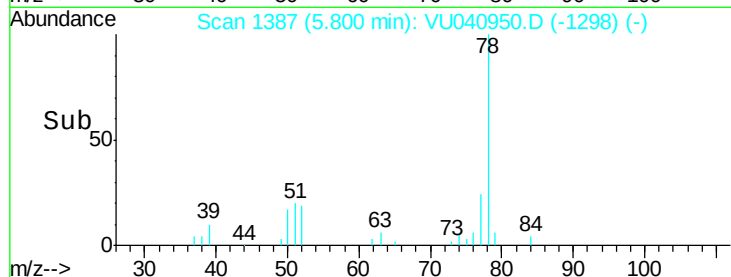
100

50

0

5.78 5.80 5.82 5.84

Time-->



#30

Cyclohexane

Concen: 0.150 ug/L

RT: 5.41 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VU040950.D

Acq: 26 Oct 2020 17:34

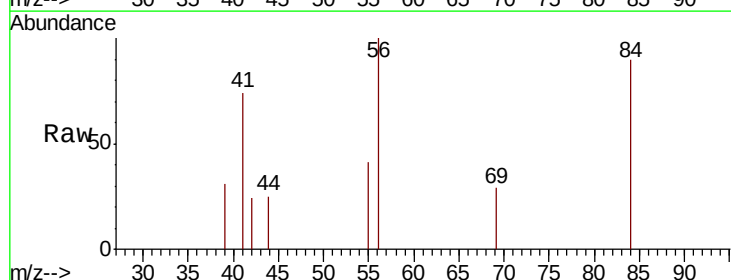
Tgt Ion: 56 Resp: 1035

Ion Ratio Lower Upper

56 100

69 9.0 22.8 34.2#

84 86.5 63.6 95.4



Abundance Ion 56.10 (55.80 to 56.80): VU040936.D (-1249) (-)

Ion 69.15 (68.85 to 69.85): VU040936.D (-1249) (-)

Ion 84.15 (83.85 to 84.85): VU040936.D (-1249) (-)

5.41

600

500

400

300

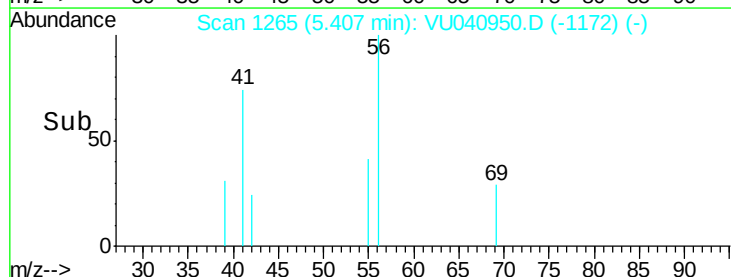
200

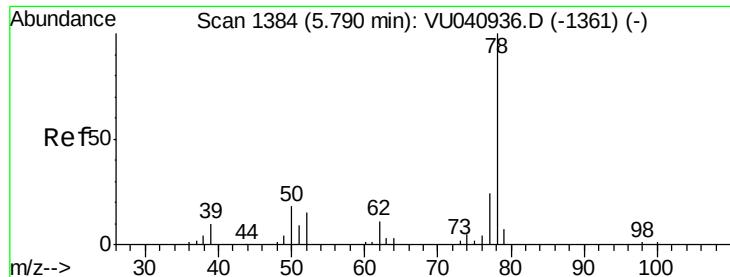
100

0

5.35 5.40 5.45

Time-->





#33

Benzene

Concen: 1.146 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. -0.00 min

Lab File: VU040950.D

Acq: 26 Oct 2020 17:34

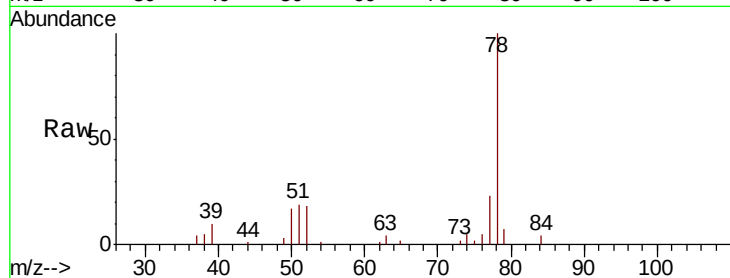
Instrument :

MSVOA_U

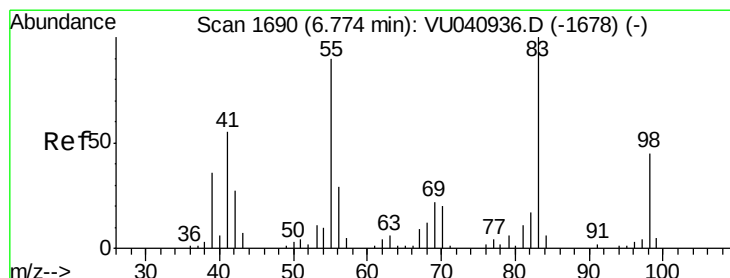
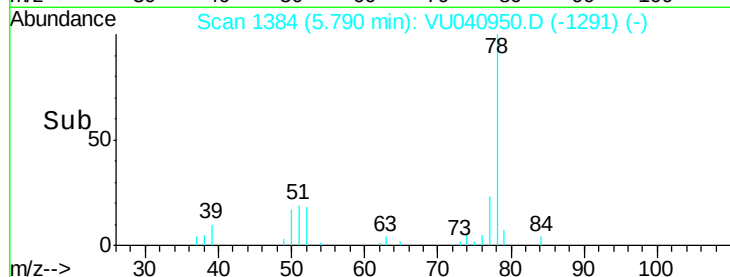
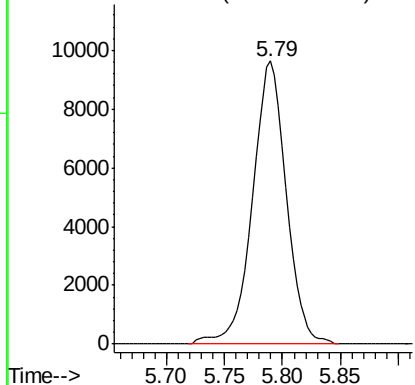
ClientSampleId :

C0AN3

Tgt Ion: 78 Resp: 19610



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 0.210 ug/L

RT: 6.78 min Scan# 1691

Delta R.T. 0.00 min

Lab File: VU040950.D

Acq: 26 Oct 2020 17:34

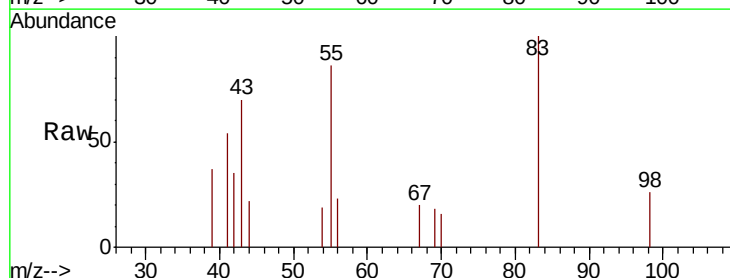
Tgt Ion: 83 Resp: 1362

Ion Ratio Lower Upper

83 100

55 87.9 72.0 108.0

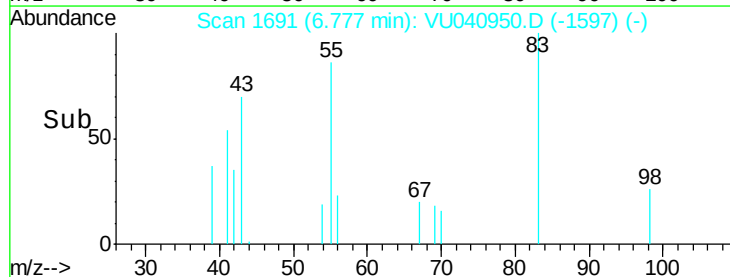
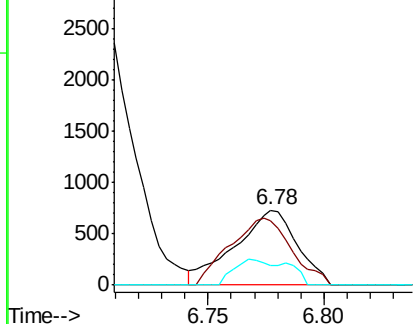
98 19.3 36.6 55.0#

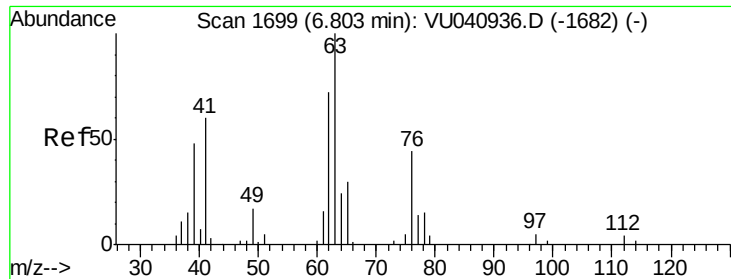


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

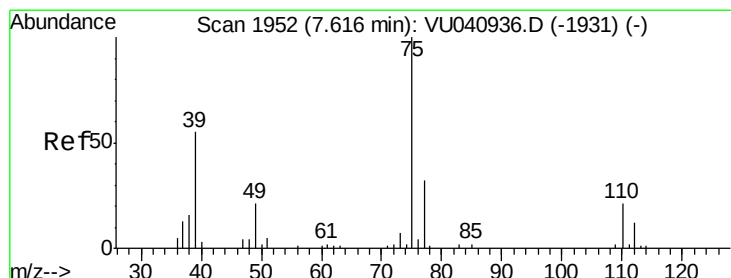
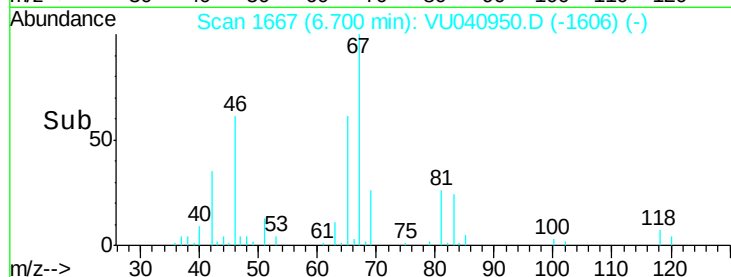
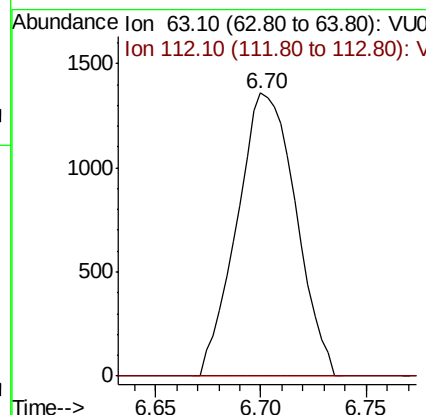
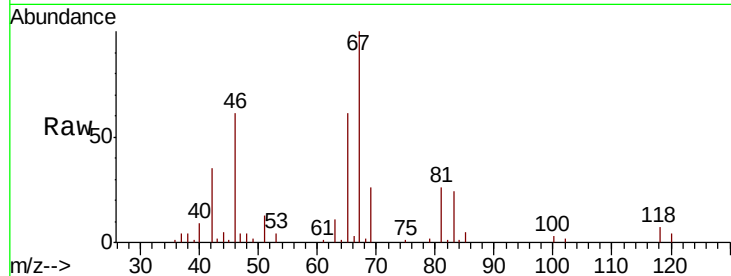




#37
 1,2-Dichloropropane
 Concen: 0.570 ug/L
 RT: 6.70 min Scan# 1667
 Delta R.T. -0.10 min
 Lab File: VU040950.D
 Acq: 26 Oct 2020 17:34

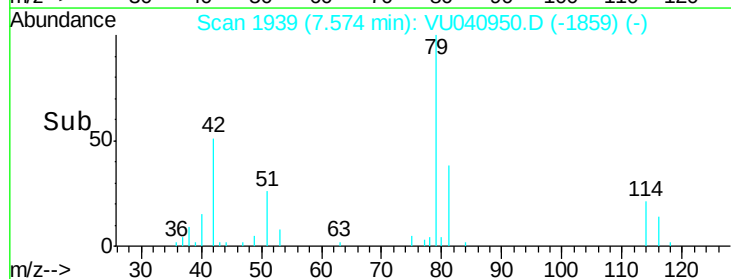
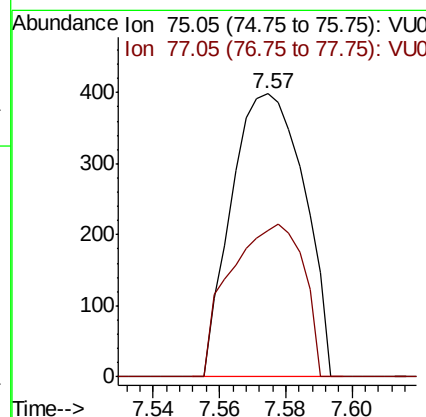
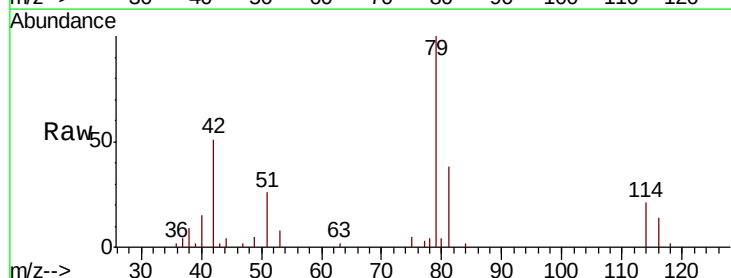
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AN3

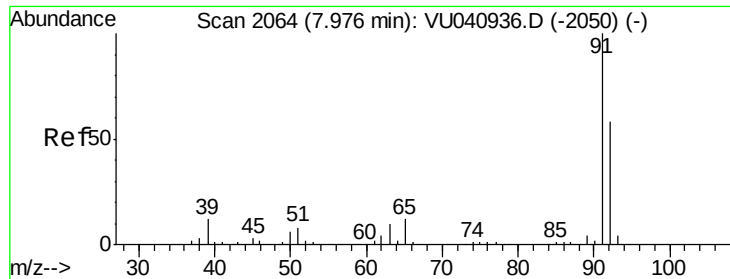
Tot Ion: 63 Resp: 2638
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.095 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040950.D
 Acq: 26 Oct 2020 17:34

Tgt Ion: 75 Resp: 607
 Ion Ratio Lower Upper
 75 100
 77 51.8 22.7 42.3#





#42

Toluene

Concen: 1.656 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU040950.D

Acq: 26 Oct 2020 17:34

Instrument :

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ClientSampleId :

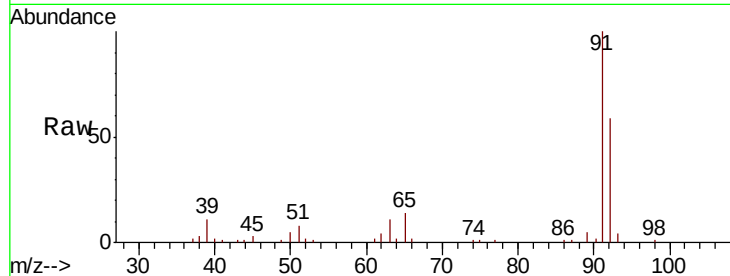
C0AN3

Tot Ion: 91 Resp: 28717

Ion Ratio Lower Upper

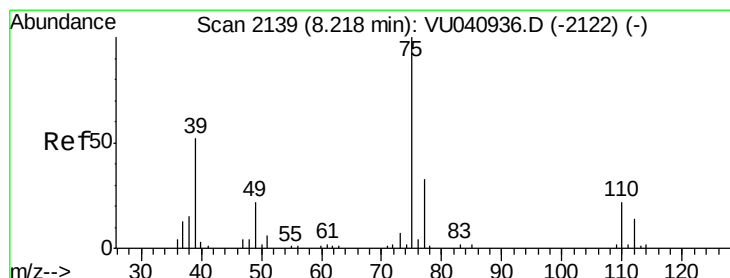
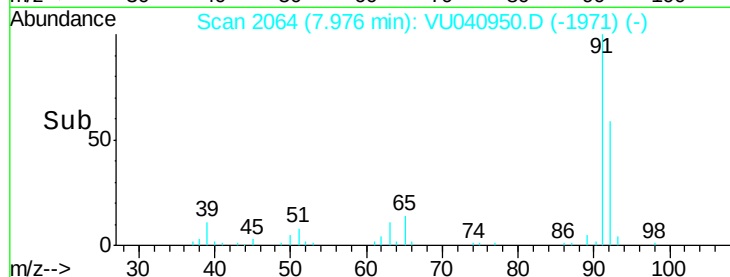
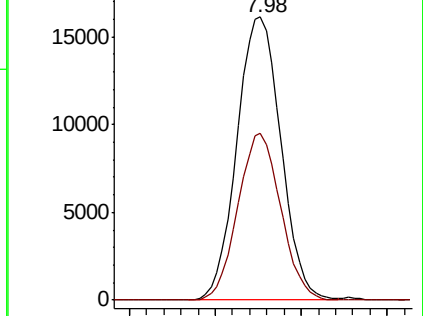
91 100

92 59.0 40.6 75.4



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.067 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU040950.D

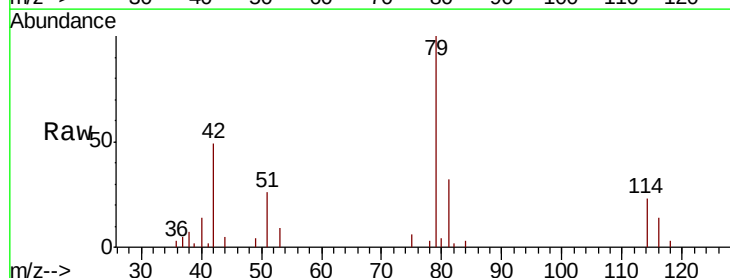
Acq: 26 Oct 2020 17:34

Tgt Ion: 75 Resp: 399

Ion Ratio Lower Upper

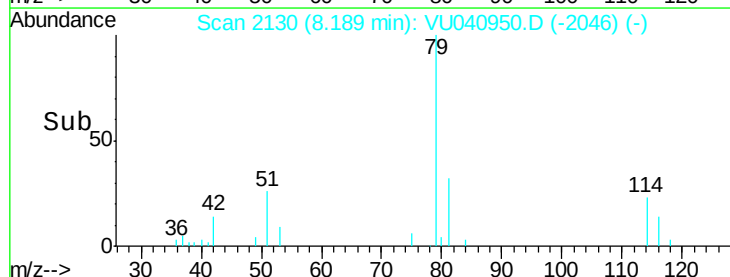
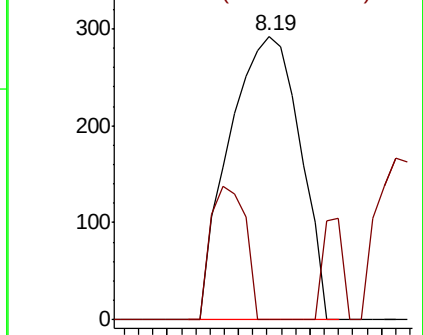
75 100

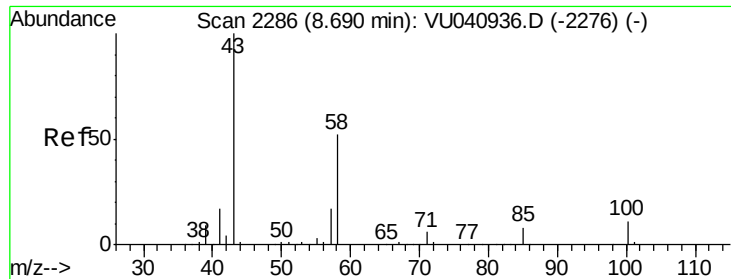
77 0.0 23.3 43.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

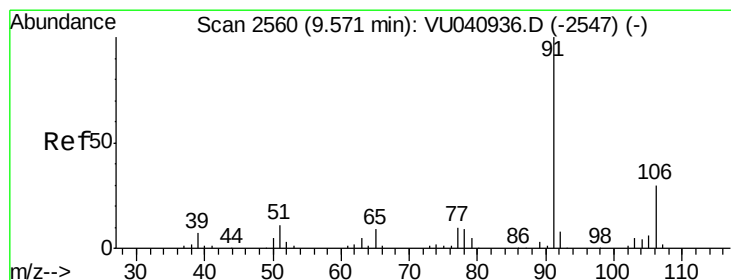
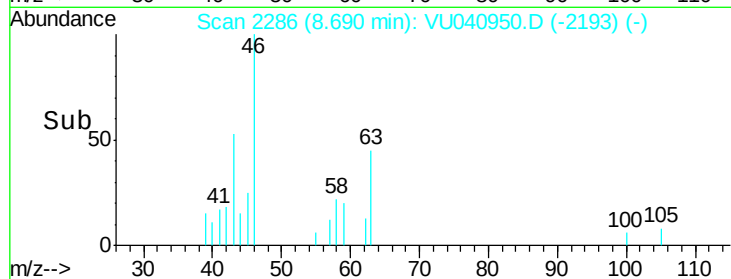
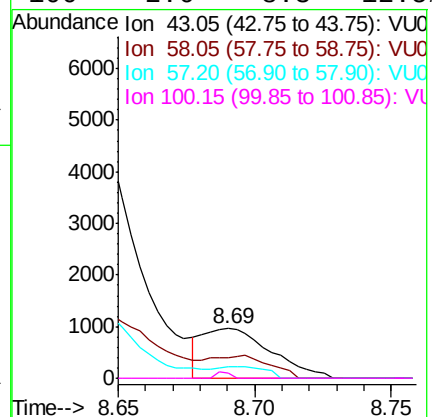
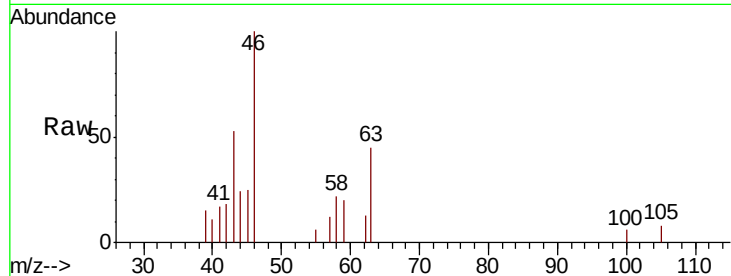




#48
2-Hexanone
Concen: 0.604 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. -0.00 min
Lab File: VU040950.D
Acq: 26 Oct 2020 17:34

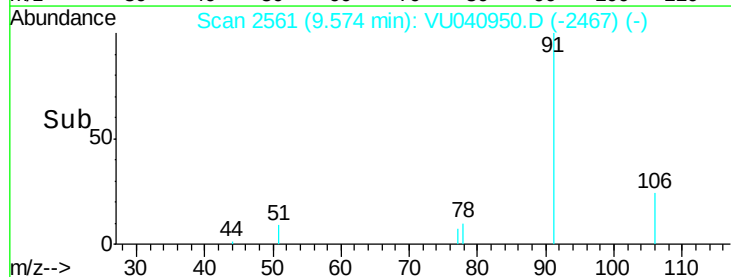
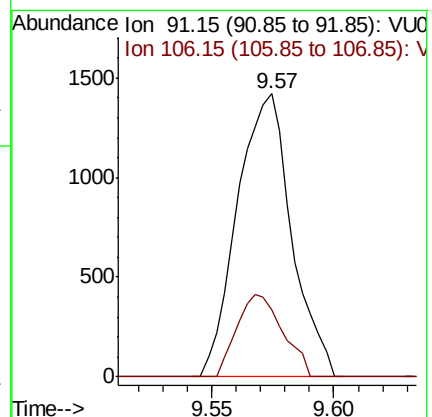
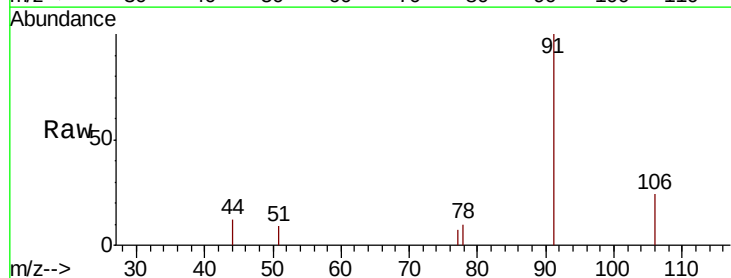
Instrument :
MSVOA_U
ClientSampleId :
C0AN3

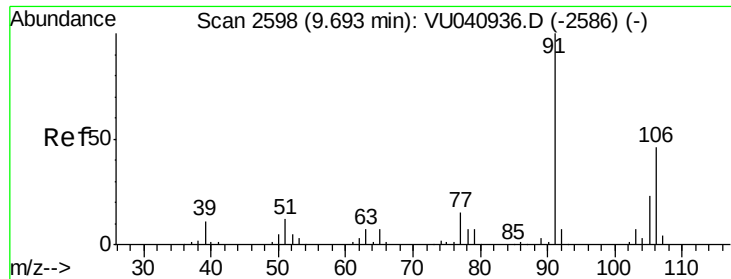
Tot Ion: 43 Resp: 1679
Ion Ratio Lower Upper
43 100
58 38.1 41.4 62.2#
57 15.8 14.6 21.8
100 2.6 8.3 12.5#



#52
Ethylbenzene
Concen: 0.120 ug/L
RT: 9.57 min Scan# 2561
Delta R.T. 0.00 min
Lab File: VU040950.D
Acq: 26 Oct 2020 17:34

Tgt Ion: 91 Resp: 2189
Ion Ratio Lower Upper
91 100
106 23.6 21.0 39.0





#53

m,p-Xylene

Concen: 0.327 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU040950.D

Acq: 26 Oct 2020 17:34

Instrument :

MSVOA_U

ClientSampleId :

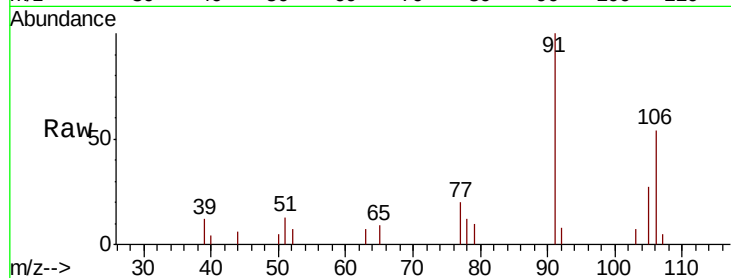
C0AN3

Tot Ion:106 Resp: 2178

Ion Ratio Lower Upper

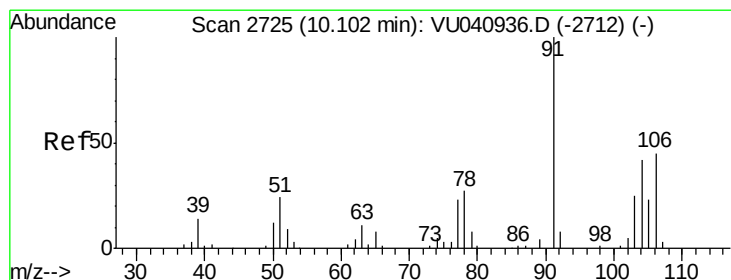
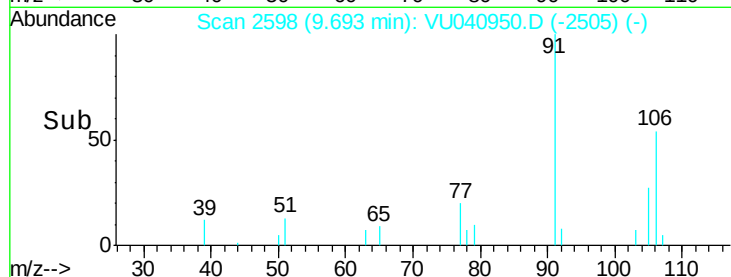
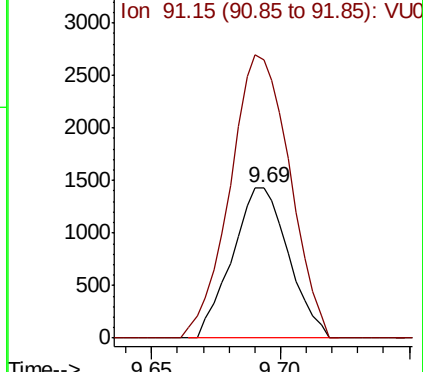
106 100

91 184.5 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.251 ug/L

RT: 10.10 min Scan# 2724

Delta R.T. -0.00 min

Lab File: VU040950.D

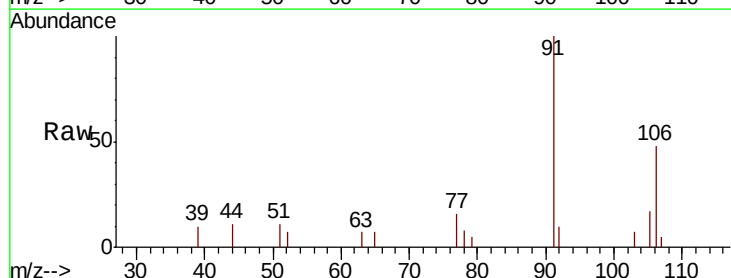
Acq: 26 Oct 2020 17:34

Tgt Ion:106 Resp: 1556

Ion Ratio Lower Upper

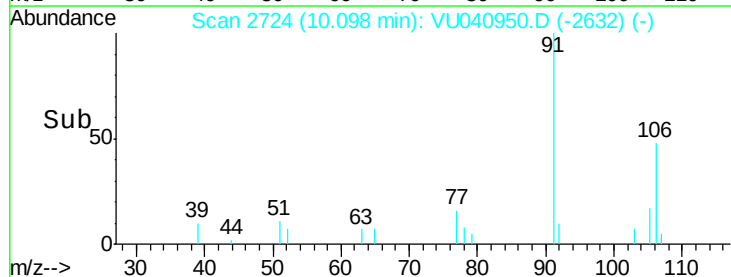
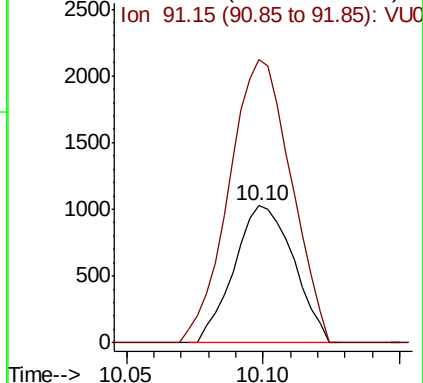
106 100

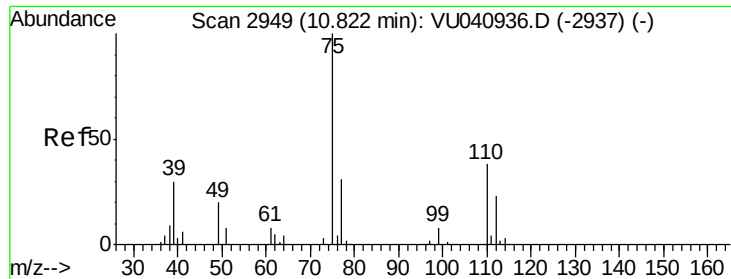
91 206.3 154.3 286.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#59

1,2,3-Trichloropropane

Concen: 0.974 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040950.D

Acq: 26 Oct 2020 17:34

Instrument :

MSVOA_U

ClientSampleId :

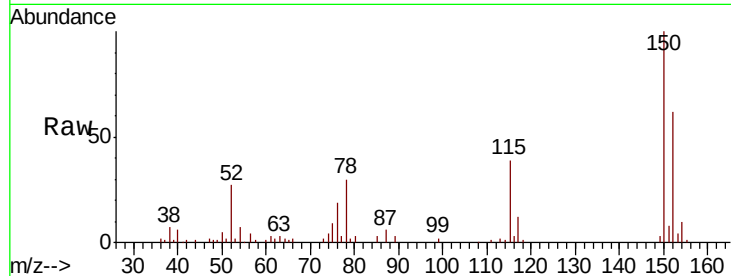
C0AN3

Tot Ion: 75 Resp: 3358

Ion Ratio Lower Upper

75 100

77 38.1 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU040936.D (-2937) (-)

Ion 77.00 (76.70 to 77.70): VU040936.D (-2937) (-)

11.81

2000

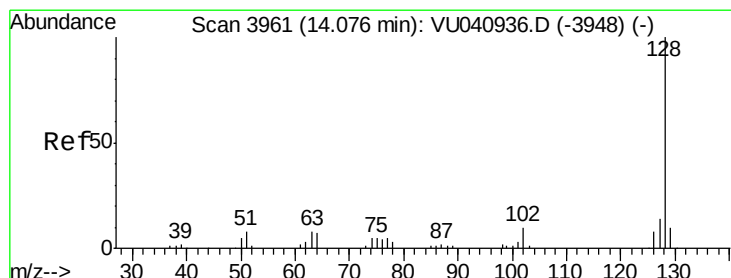
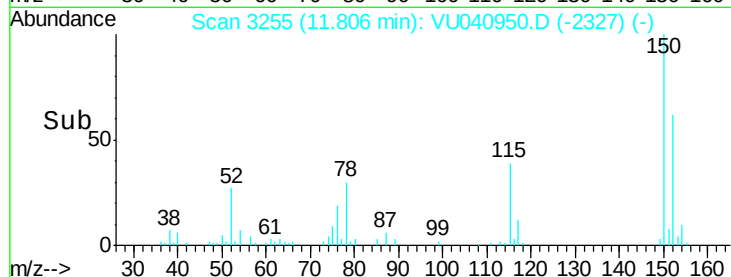
1500

1000

500

0

Time--> 11.75 11.80 11.85



#69

Naphthalene

Concen: 0.151 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU040950.D

Acq: 26 Oct 2020 17:34

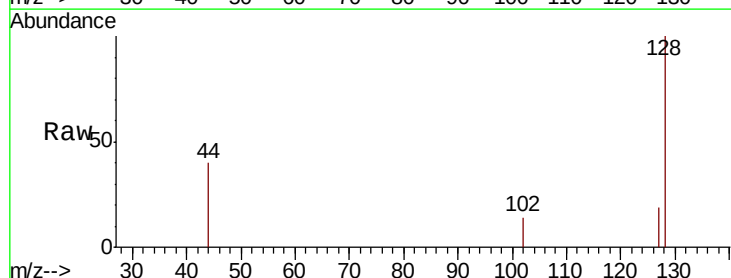
Tgt Ion: 128 Resp: 1095

Ion Ratio Lower Upper

128 100

129 0.0 8.7 13.1#

127 9.4 10.8 16.2#



Abundance Ion 128.00 (127.70 to 128.70): VU040936.D (-3948) (-)

Ion 129.00 (128.70 to 129.70): VU040936.D (-3948) (-)

Ion 127.00 (126.70 to 127.70): VU040936.D (-3948) (-)

14.08

1000

800

600

400

200

0

Time--> 14.05 14.10

