

Data File : VU026833.D
Acq On : 17 Sep 2018 20:09
Operator : MD/SY
Sample : J4864-03 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0D09

Quant Time: Sep 18 01:39:03 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091718WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Sep 18 01:34:58 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	245399	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	230265	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	95836	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	82967	45.70	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.40%
7) Chloroethane-d5	1.68	69	74009	47.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.26%
11) 1,1-Dichloroethene-d2	2.27	63	123861	36.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.12%
21) 2-Butanone-d5	4.18	46	128095	106.33	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.33%
24) Chloroform-d	4.65	84	160058	47.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.06%
26) 1,2-Dichloroethane-d4	5.31	65	104449	49.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.52%
32) Benzene-d6	5.34	84	331243	51.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.66%
36) 1,2-Dichloropropane-d6	6.33	67	107047	51.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.96%
41) Toluene-d8	7.57	98	277925	47.67	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.34%
43) trans-1,3-Dichloropropene-	7.85	79	44581	48.02	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.04%
47) 2-Hexanone-d5	8.31	63	90205	110.38	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	110.38%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	142437	49.13	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.26%
64) 1,2-Dichlorobenzene-d4	11.86	152	108316	54.33	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.66%

Target Compounds

					Qvalue
5) Vinyl chloride	1.40	62	40540	17.609 ug/L	96
8) Chloroethane	1.70	64	1025	0.710 ug/L	94
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	1249	0.737 ug/L #	18
12) 1,1-Dichloroethene	2.28	96	4139	2.601 ug/L #	1
13) Acetone	2.32	43	1469	1.241 ug/L	84
16) Methylene chloride	2.70	84	23711	11.721 ug/L	99
19) 1,1-Dichloroethane	3.45	63	22422	6.633 ug/L	100
20) cis-1,2-Dichloroethene	4.23	96	229380	118.994 ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	23706	8.654 ug/L	98
31) Carbon tetrachloride	4.92	117	2873	1.170 ug/L	94
34) Trichloroethene	6.19	95	26921	15.715 ug/L	98
37) 1,2-Dichloropropane	6.33	63	10967	5.592 ug/L #	89
39) cis-1,3-Dichloropropene	7.23	75	2544	0.918 ug/L #	61
42) Toluene	7.64	91	2695	0.373 ug/L	91
44) trans-1,3-Dichloropropene	7.85	75	1885	0.727 ug/L #	77
52) Ethylbenzene	9.25	91	6193	0.818 ug/L	99
53) m,p-Xylene	9.38	106	6484	2.229 ug/L	90

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091718\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Tue Sep 18 01:34:58 2018
Response via : Initial Calibration

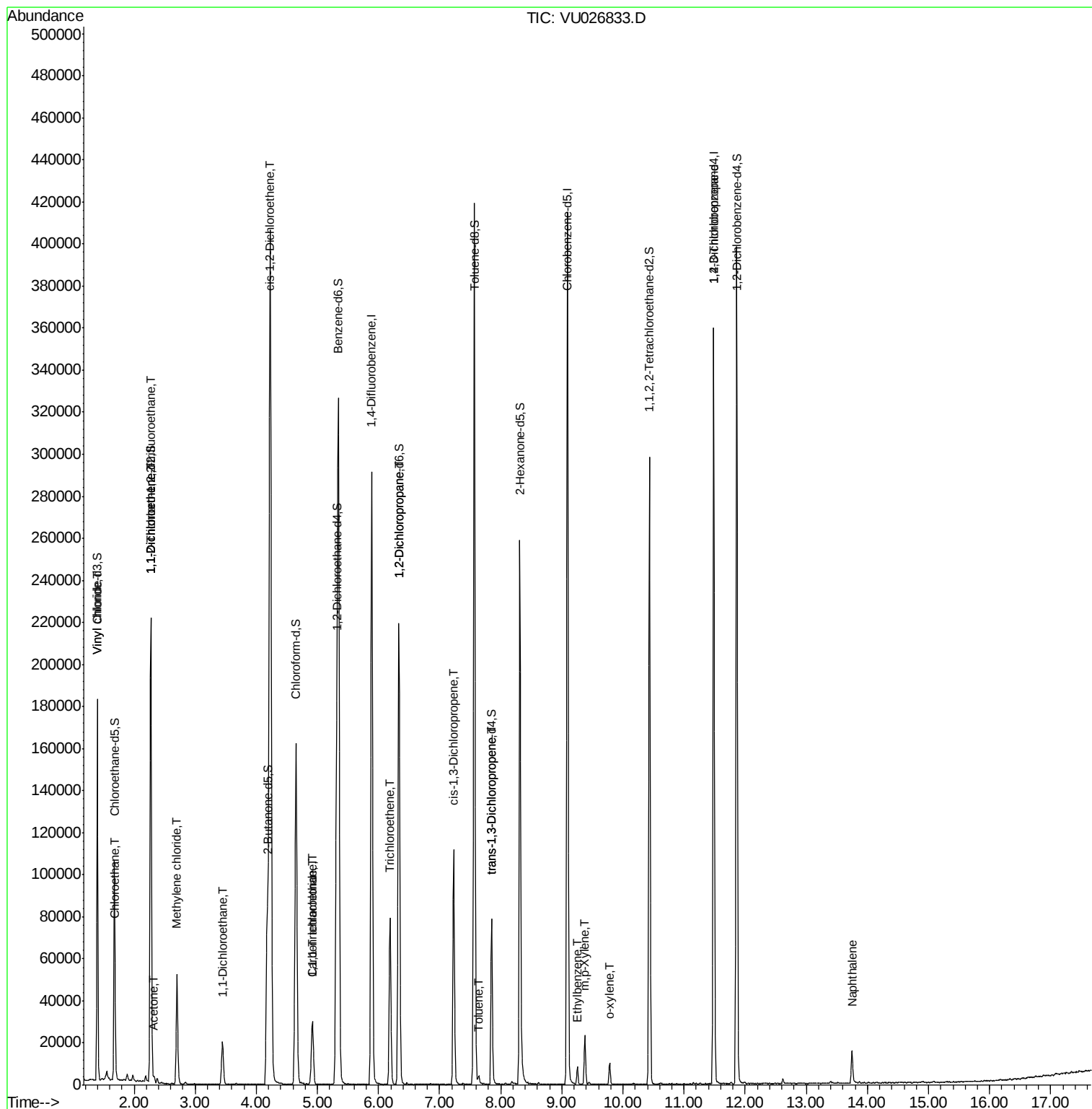
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	9.78	106	2777	0.980	ug/L	98
59) 1,2,3-Trichloropropane	11.48	75	11175	4.757	ug/L	92
69) Naphthalene	13.75	128	14136	2.463	ug/L	98

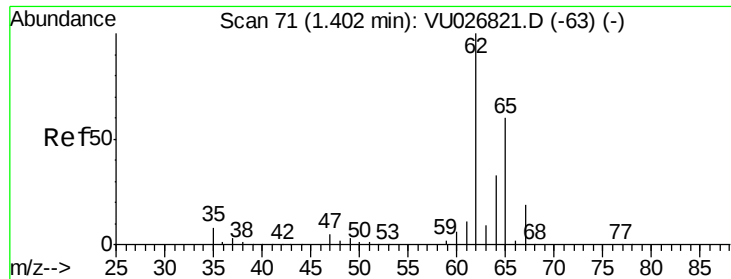
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 17.609 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU026833.D

Acq: 17 Sep 2018 20:09

Instrument :

MSVOA_U

ClientSampled :

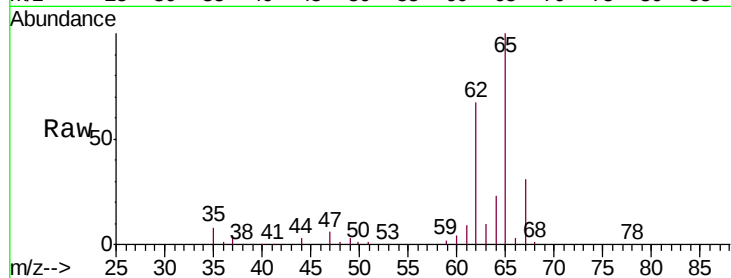
C0D09

Tgt Ion: 62 Resp: 40540

Ion Ratio Lower Upper

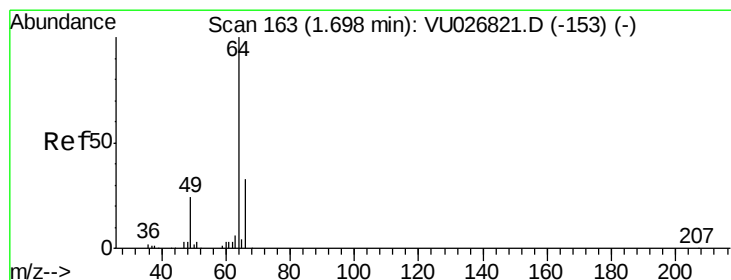
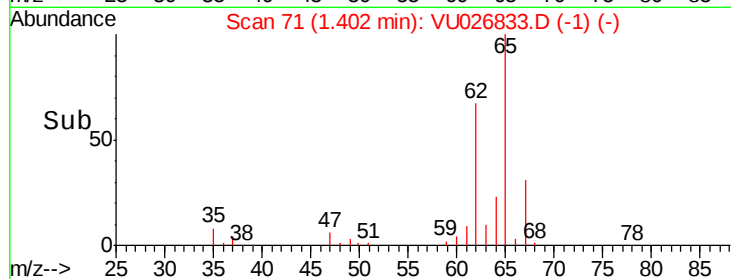
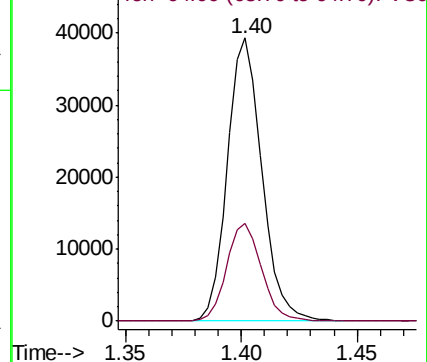
62 100

64 34.5 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#8

Chloroethane

Concen: 0.710 ug/L

RT: 1.70 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU026833.D

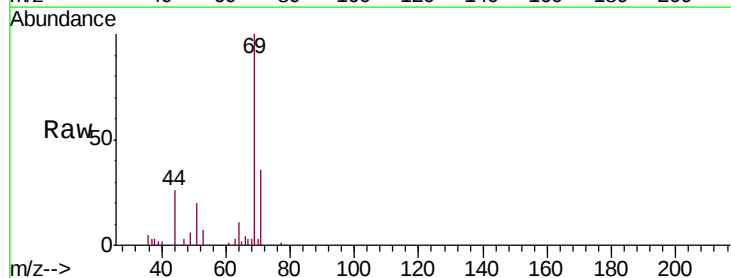
Acq: 17 Sep 2018 20:09

Tgt Ion: 64 Resp: 1025

Ion Ratio Lower Upper

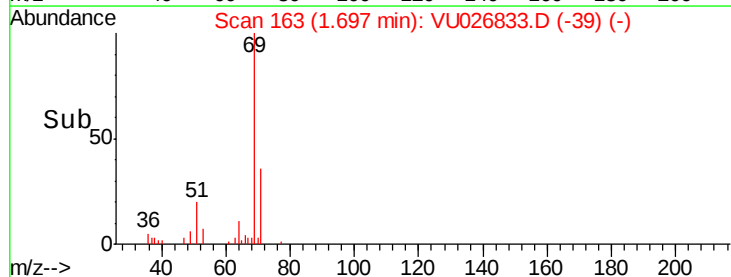
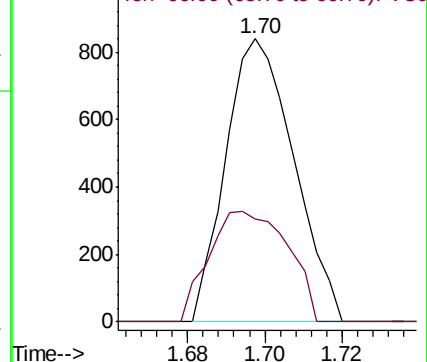
64 100

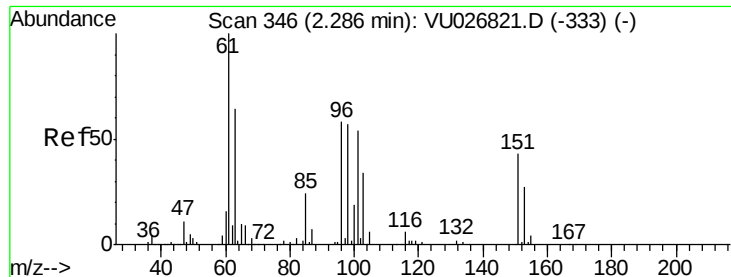
66 36.5 23.0 42.8



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#10

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

Concen: 0.737 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU026833.D

Acq: 17 Sep 2018 20:09

Instrument :

MSVOA_U

ClientSampleId :

C0D09

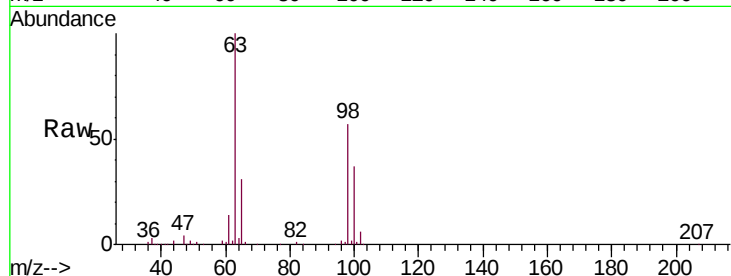
Tgt Ion: 101 Resp: 1249

Ion Ratio Lower Upper

101 100

85 0.0 34.6 52.0#

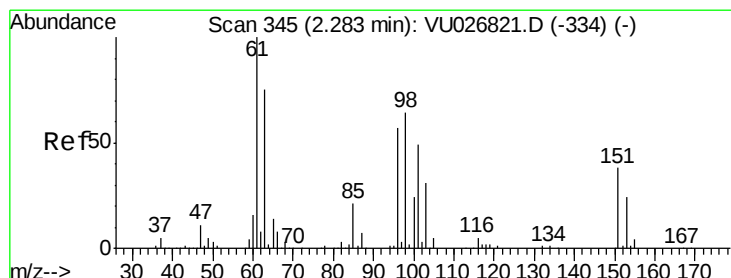
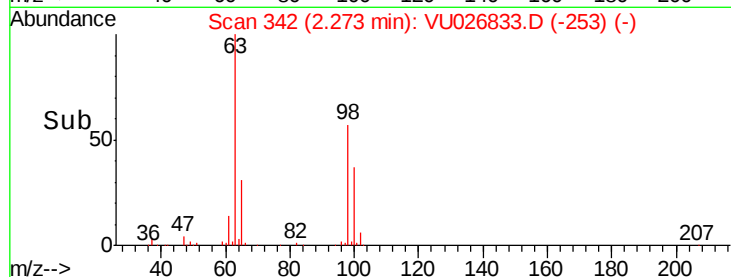
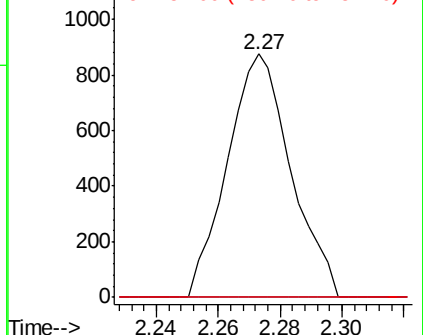
151 0.0 63.0 94.4#



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: 2.601 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU026833.D

Acq: 17 Sep 2018 20:09

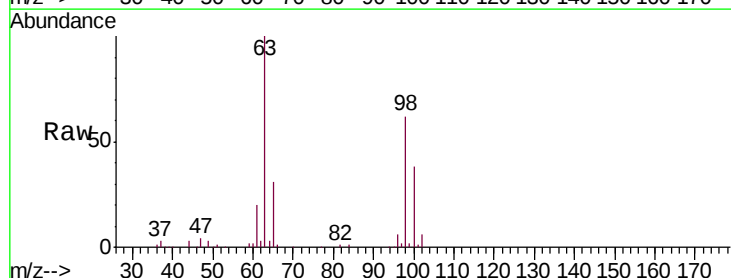
Tgt Ion: 96 Resp: 4139

Ion Ratio Lower Upper

96 100

61 353.6 124.0 230.4#

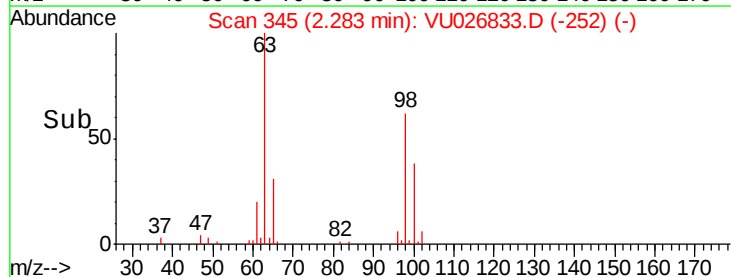
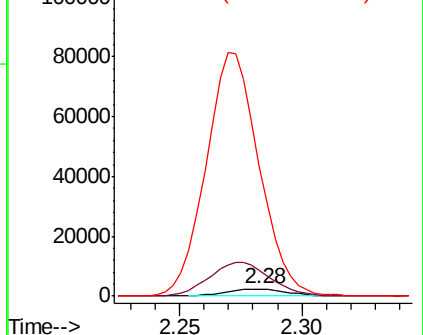
63 1777.5 97.7 181.5#

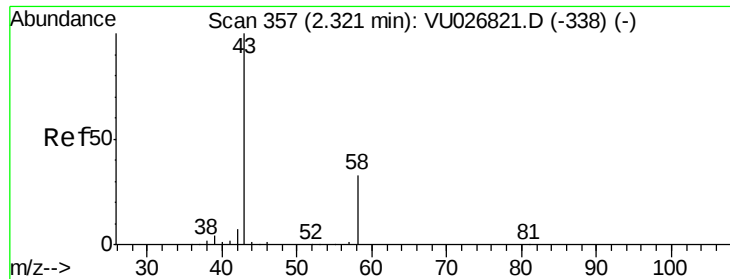


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.241 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU026833.D

Acq: 17 Sep 2018 20:09

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MSVOA_U

ClientSampleId :

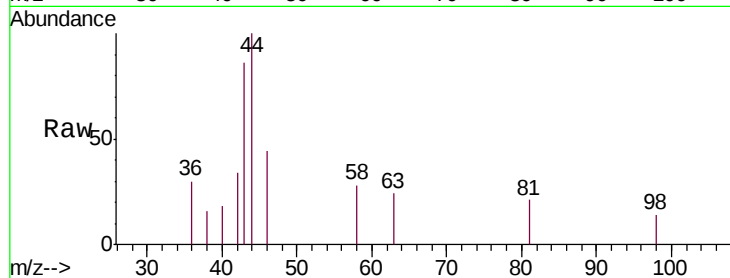
C0D09

Tgt Ion: 43 Resp: 1469

Ion Ratio Lower Upper

43 100

58 23.5 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

800

600

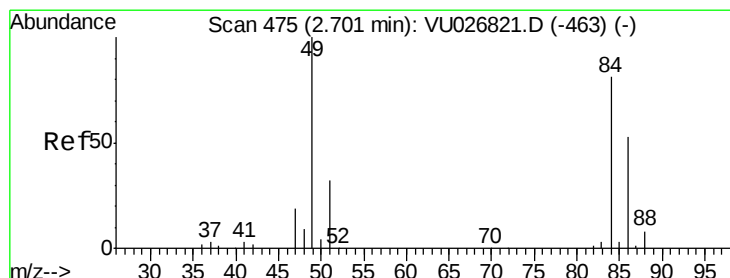
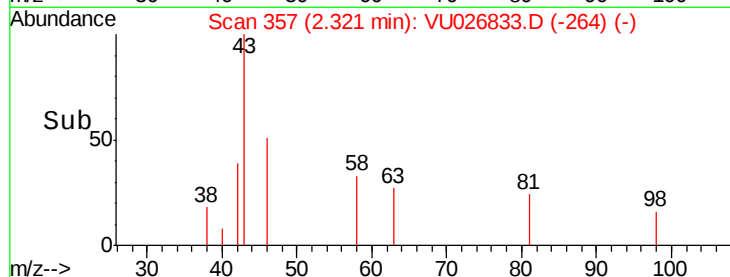
400

200

0

2.30 2.35

Time-->



#16

Methylene chloride

Concen: 11.721 ug/L

RT: 2.70 min Scan# 475

Delta R.T. -0.00 min

Lab File: VU026833.D

Acq: 17 Sep 2018 20:09

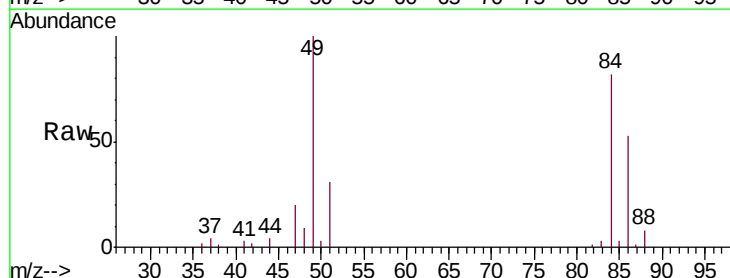
Tgt Ion: 84 Resp: 23711

Ion Ratio Lower Upper

84 100

86 65.2 45.3 84.1

49 122.0 86.2 160.2



Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

20000

15000

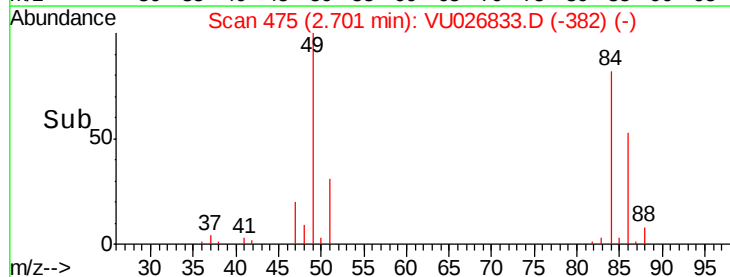
10000

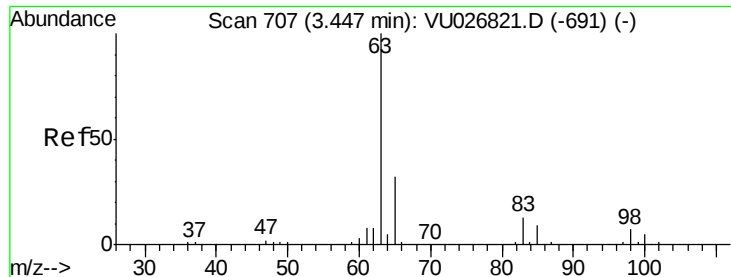
5000

0

2.65 2.70 2.75

Time-->

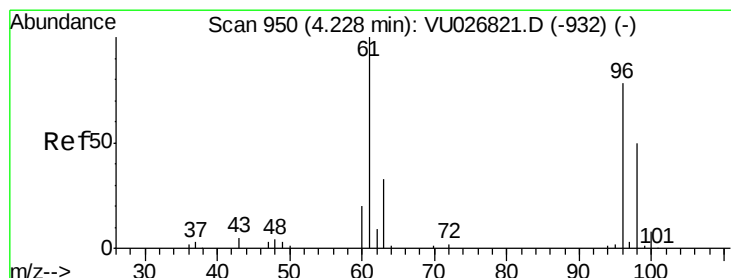
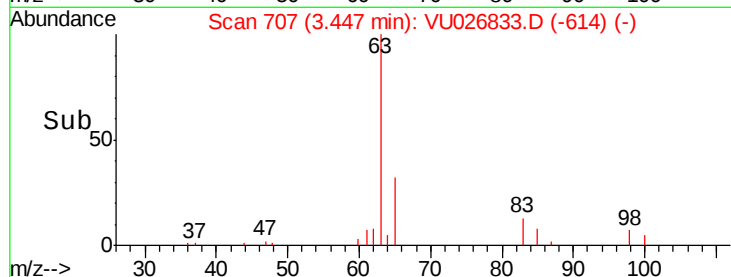
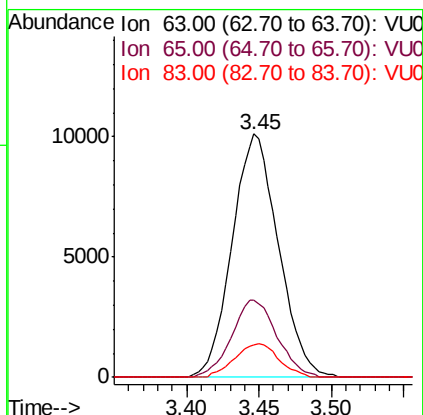
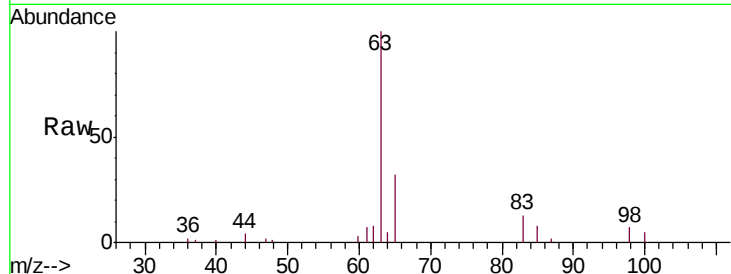




#19
 1,1-Dichloroethane
 Concen: 6.633 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VU026833.D
 Acq: 17 Sep 2018 20:09

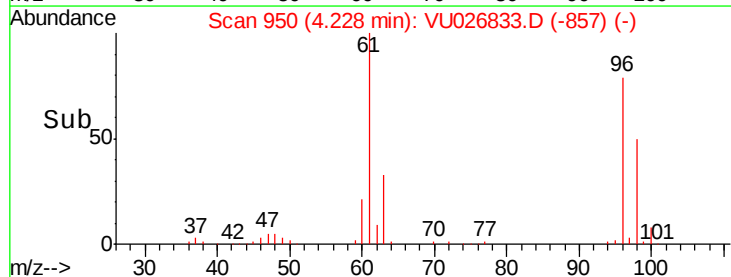
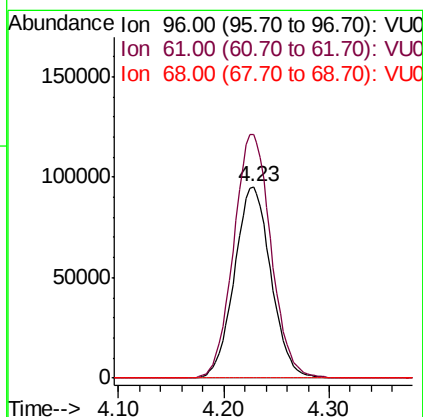
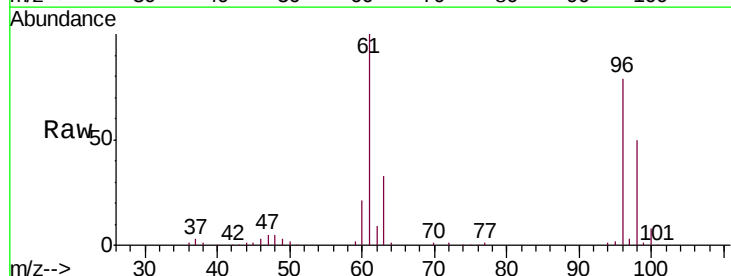
Instrument :
 MSVOA_U
 ClientSampleId :
 C0D09

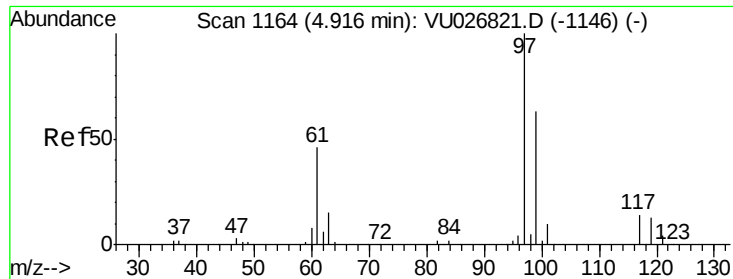
Tgt Ion: 63 Resp: 22422
 Ion Ratio Lower Upper
 63 100
 65 31.7 22.1 41.1
 83 13.4 9.3 17.3



#20
 cis-1,2-Dichloroethene
 Concen: 118.994 ug/L
 RT: 4.23 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: VU026833.D
 Acq: 17 Sep 2018 20:09

Tgt Ion: 96 Resp: 229380
 Ion Ratio Lower Upper
 96 100
 61 127.2 90.2 167.4
 68 0.0 0.0 0.0

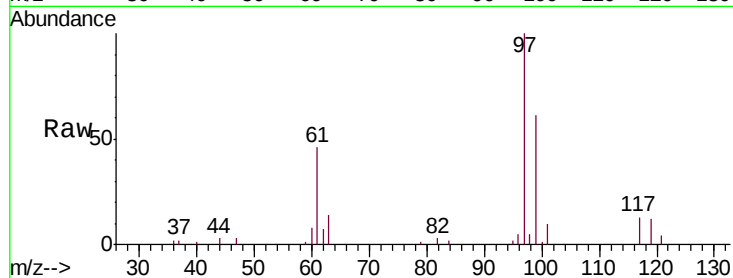




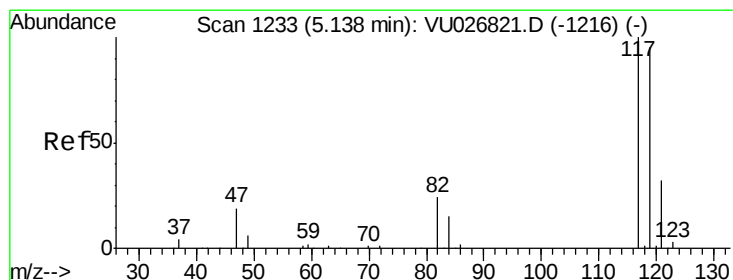
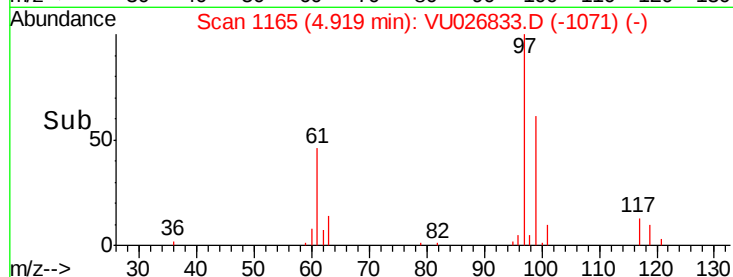
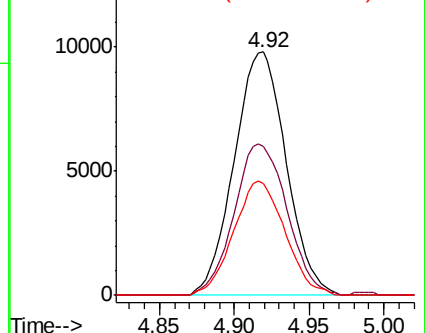
#30
 1,1,1-Trichloroethane
 Concen: 8.654 ug/L
 RT: 4.92 min Scan# 1165
 Delta R.T. 0.00 min
 Lab File: VU026833.D
 Acq: 17 Sep 2018 20:09

Instrument :
 MSVOA_U
 ClientSampleID :
 C0D09

Tgt Ion: 97 Resp: 23706
 Ion Ratio Lower Upper
 97 100
 99 63.2 51.8 77.8
 61 46.4 36.6 54.8

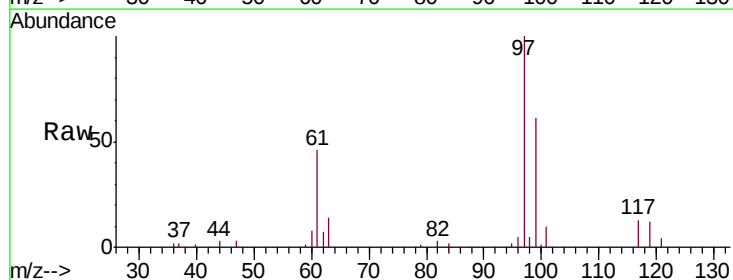


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0

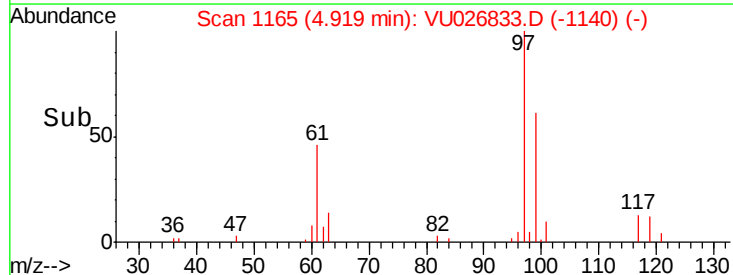
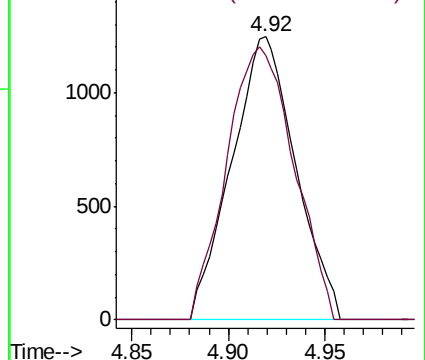


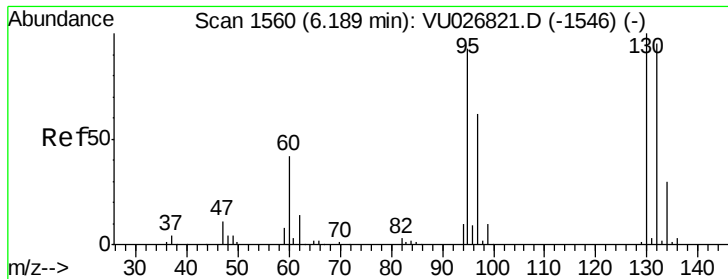
#31
 Carbon tetrachloride
 Concen: 1.170 ug/L
 RT: 4.92 min Scan# 1165
 Delta R.T. -0.22 min
 Lab File: VU026833.D
 Acq: 17 Sep 2018 20:09

Tgt Ion: 117 Resp: 2873
 Ion Ratio Lower Upper
 117 100
 119 101.3 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V





#34

Trichloroethene

Concen: 15.715 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. -0.00 min

Lab File: VU026833.D

Acq: 17 Sep 2018 20:09

Instrument :

MSVOA_U

ClientSampleId :

C0D09

Tgt Ion: 95 Resp: 26921

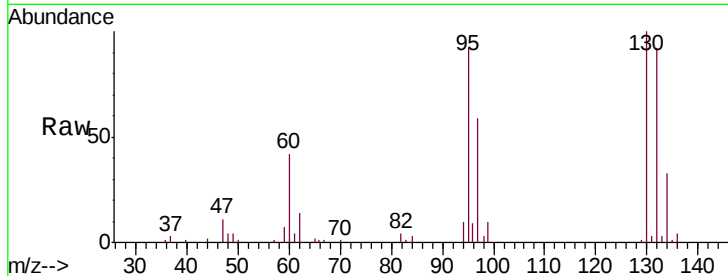
Ion Ratio Lower Upper

95 100

97 64.4 46.3 85.9

132 100.5 71.7 133.1

130 109.0 75.3 139.8

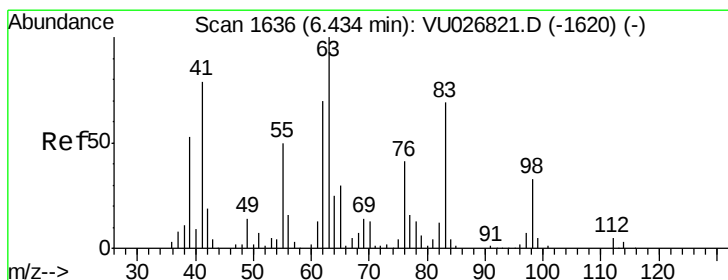
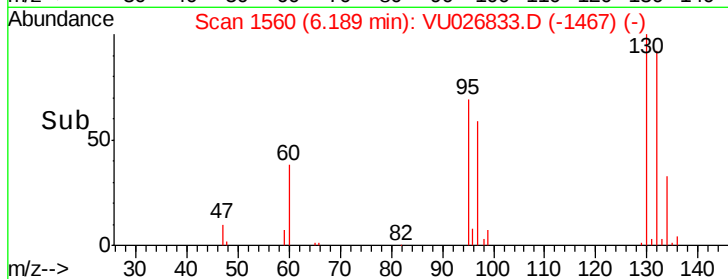
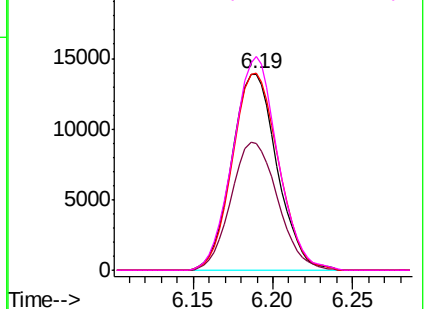


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#37

1,2-Dichloropropane

Concen: 5.592 ug/L

RT: 6.33 min Scan# 1604

Delta R.T. -0.10 min

Lab File: VU026833.D

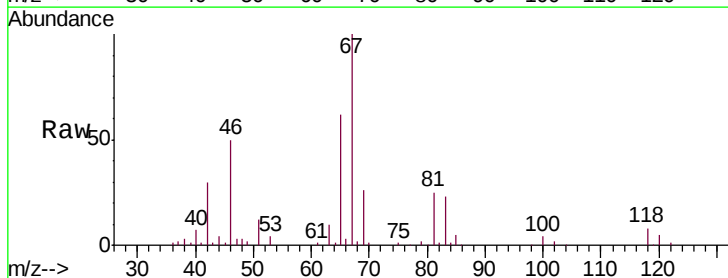
Acq: 17 Sep 2018 20:09

Tgt Ion: 63 Resp: 10967

Ion Ratio Lower Upper

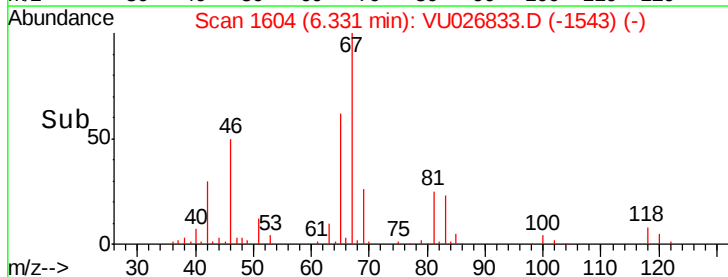
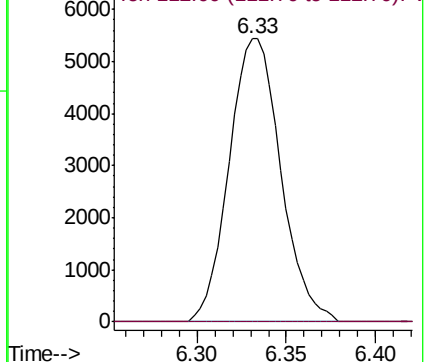
63 100

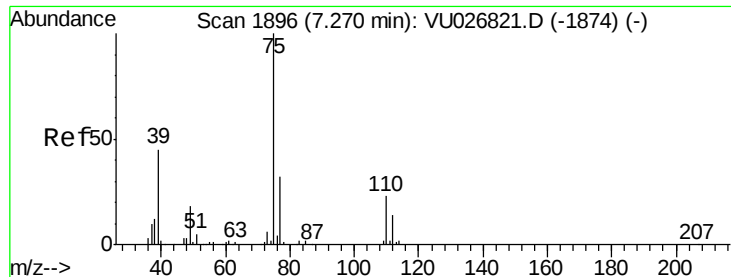
112 0.9 3.7 5.5#



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V

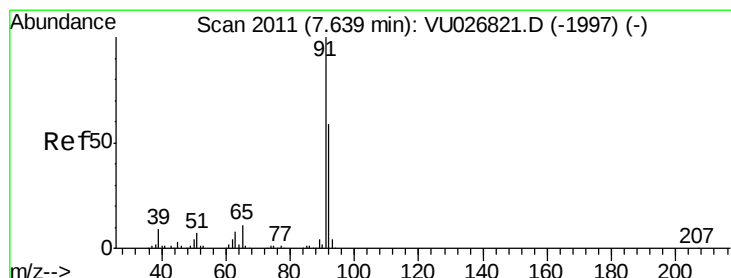
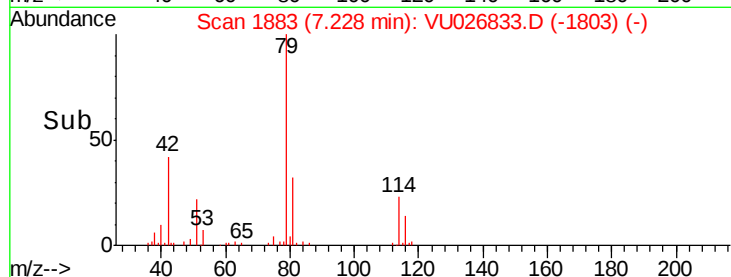
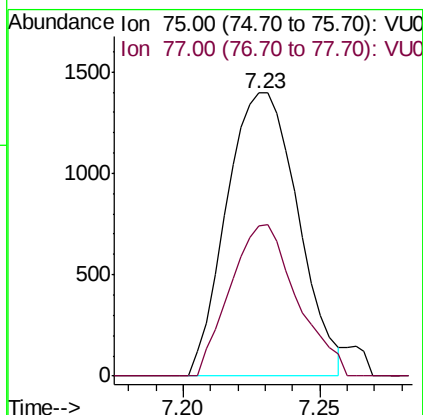
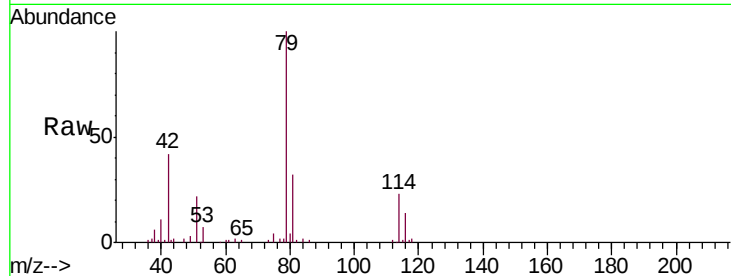




#39
 cis-1,3-Dichloropropene
 Concen: 0.918 ug/L
 RT: 7.23 min Scan# 1883
 Delta R.T. -0.04 min
 Lab File: VU026833.D
 Acq: 17 Sep 2018 20:09

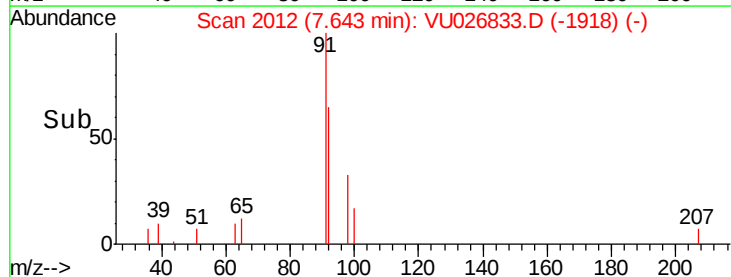
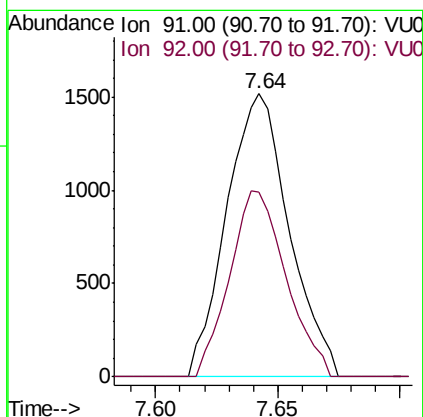
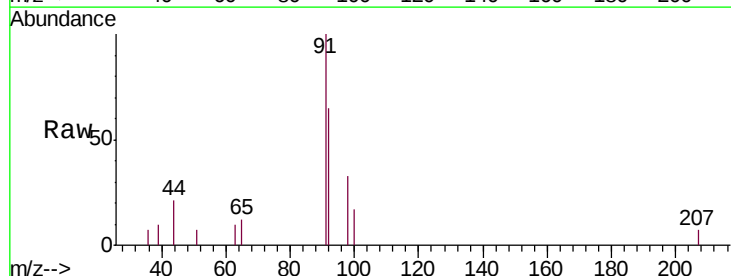
Instrument :
 MSVOA_U
 ClientSampleID :
 C0D09

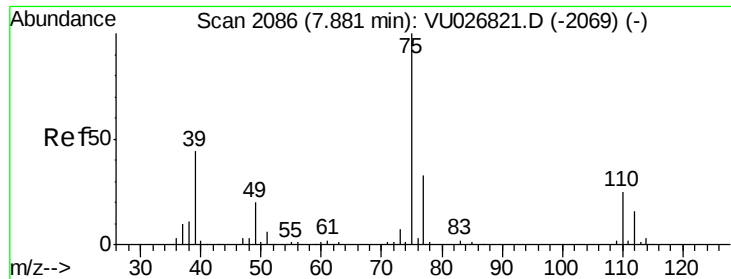
Tgt Ion: 75 Resp: 2544
 Ion Ratio Lower Upper
 75 100
 77 53.2 22.1 41.1#



#42
 Toluene
 Concen: 0.373 ug/L
 RT: 7.64 min Scan# 2012
 Delta R.T. 0.00 min
 Lab File: VU026833.D
 Acq: 17 Sep 2018 20:09

Tgt Ion: 91 Resp: 2695
 Ion Ratio Lower Upper
 91 100
 92 65.3 40.9 76.0





#44

trans-1,3-Dichloropropene

Concen: 0.727 ug/L

RT: 7.85 min Scan# 2078

Delta R.T. -0.03 min

Lab File: VU026833.D

Acq: 17 Sep 2018 20:09

Instrument :

MSVOA_U

ClientSampleId :

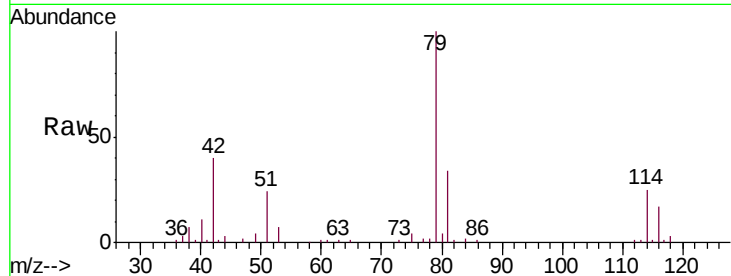
C0D09

Tgt Ion: 75 Resp: 1885

Ion Ratio Lower Upper

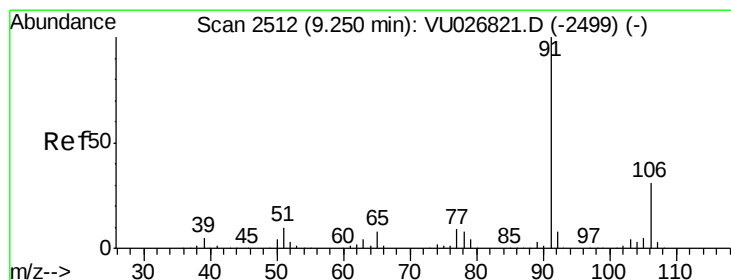
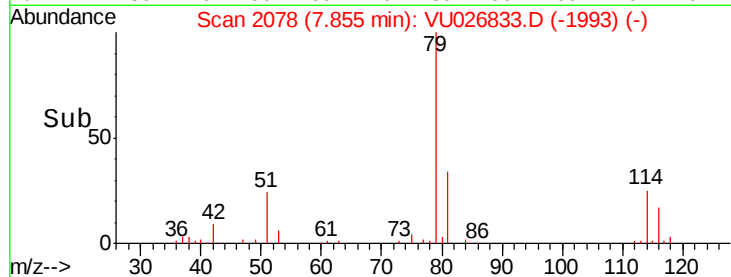
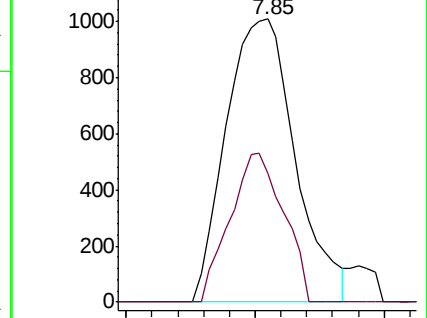
75 100

77 45.6 22.8 42.4#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#52

Ethylbenzene

Concen: 0.818 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.00 min

Lab File: VU026833.D

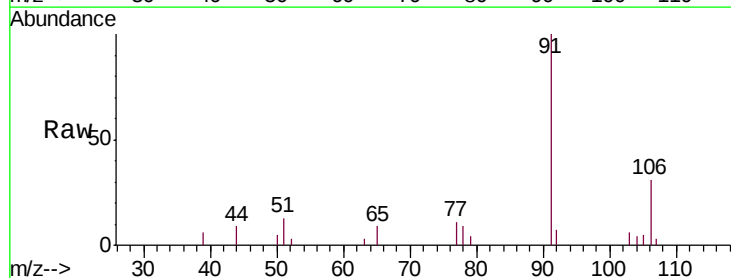
Acq: 17 Sep 2018 20:09

Tgt Ion: 91 Resp: 6193

Ion Ratio Lower Upper

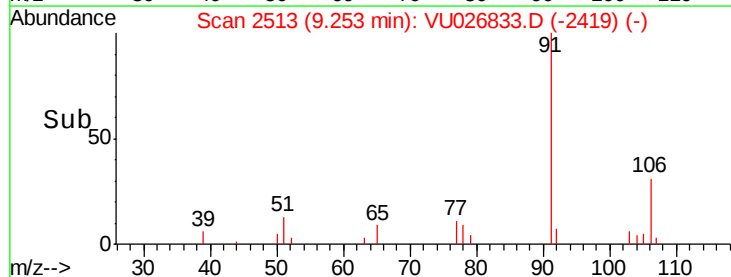
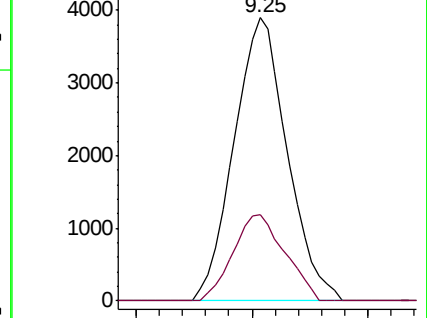
91 100

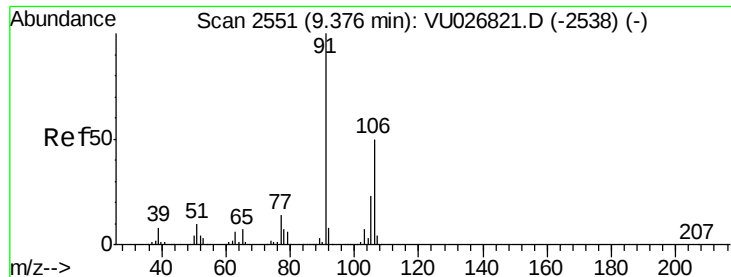
106 30.6 22.0 40.8



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 2.229 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VU026833.D

Acq: 17 Sep 2018 20:09

Instrument :

MSVOA_U

ClientSampleId :

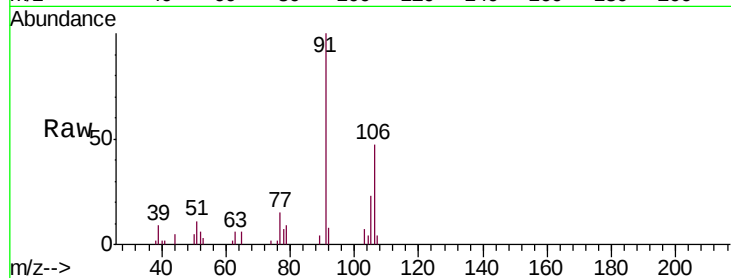
C0D09

Tgt Ion:106 Resp: 6484

Ion Ratio Lower Upper

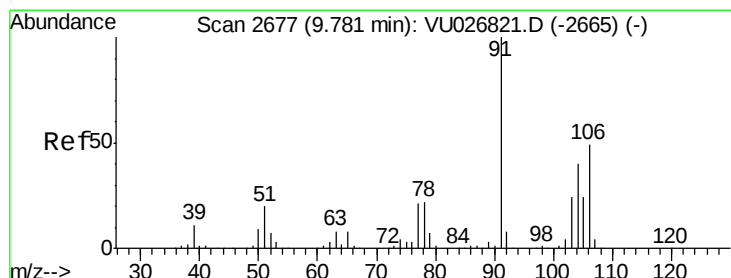
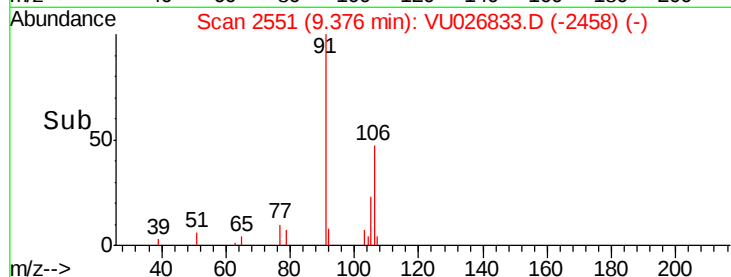
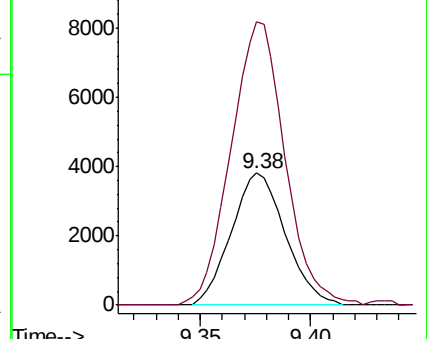
106 100

91 214.5 139.2 258.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 0.980 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VU026833.D

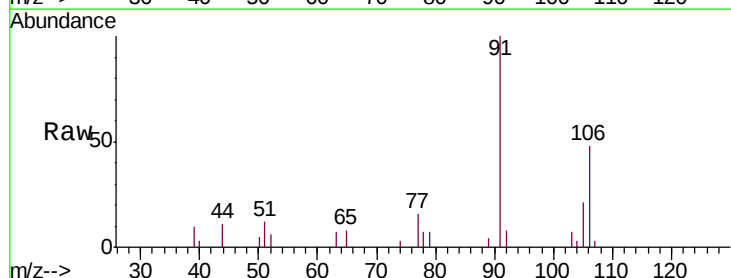
Acq: 17 Sep 2018 20:09

Tgt Ion:106 Resp: 2777

Ion Ratio Lower Upper

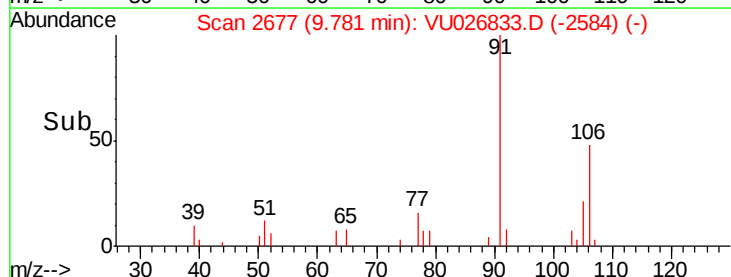
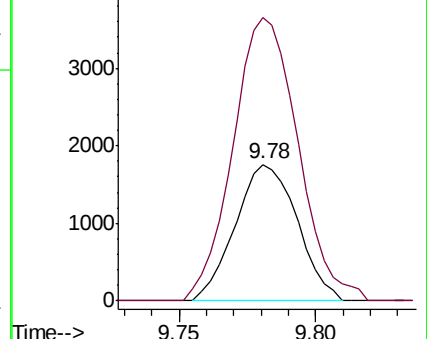
106 100

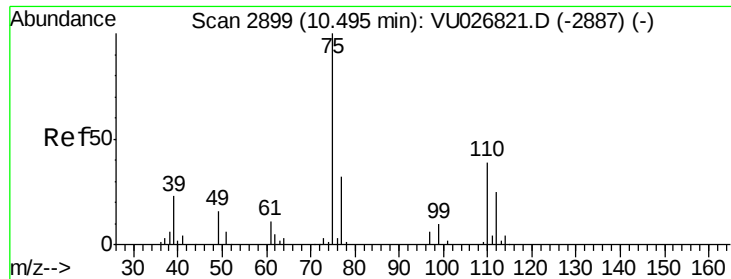
91 207.5 143.1 265.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

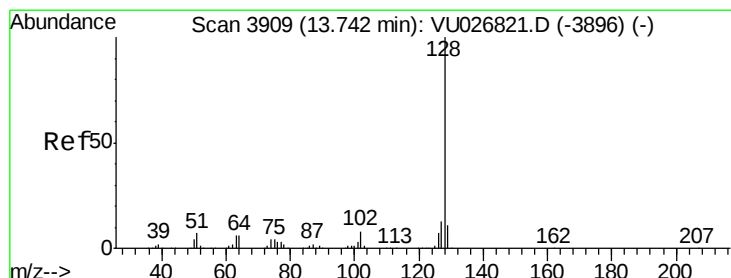
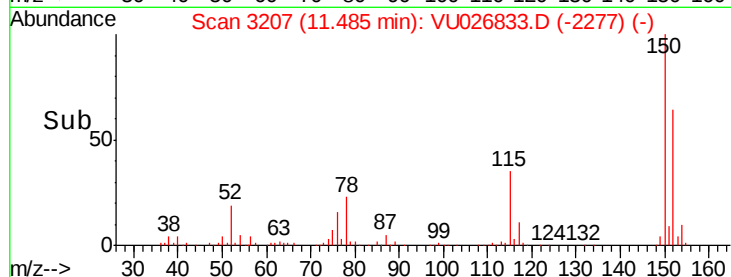
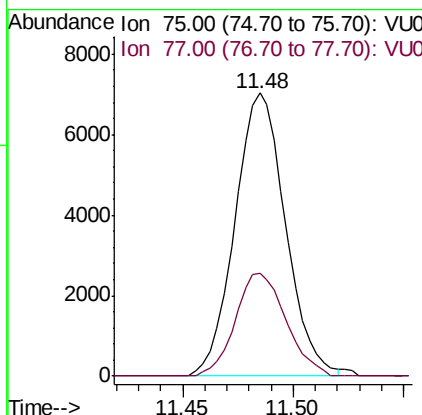
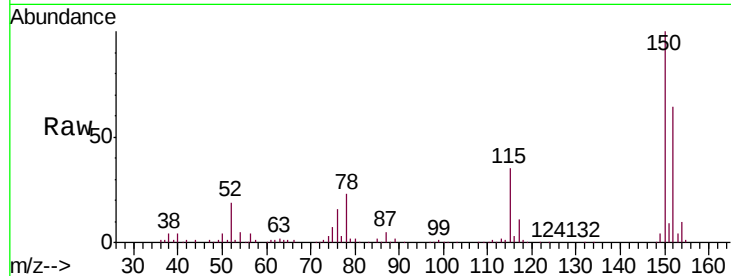




#59
 1,2,3-Trichloropropane
 Concen: 4.757 ug/L
 RT: 11.48 min Scan# 3207
 Delta R.T. 0.99 min
 Lab File: VU026833.D
 Acq: 17 Sep 2018 20:09

Instrument :
 MSVOA_U
 ClientSampleId :
 C0D09

Tgt Ion: 75 Resp: 11175
 Ion Ratio Lower Upper
 75 100
 77 36.4 25.5 38.3



#69
 Naphthalene
 Concen: 2.463 ug/L
 RT: 13.75 min Scan# 3911
 Delta R.T. 0.01 min
 Lab File: VU026833.D
 Acq: 17 Sep 2018 20:09

Tgt Ion: 128 Resp: 14136
 Ion Ratio Lower Upper
 128 100
 127 13.9 10.2 15.4
 129 11.4 8.6 12.8

