

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052820\
 Data File : VU038360.D
 Acq On : 28 May 2020 20:41
 Operator : JC/MD
 Sample : L2756-06MS 200X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETKW8MSD

Quant Time: May 29 04:35:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri May 29 04:31:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	612733	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	593602	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	278473	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	194677	50.61	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	101.22%
7) Chloroethane-d5	1.93	69	160566	54.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	108.06%
11) 1,1-Dichloroethene-d2	2.59	63	397620	50.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.16%
21) 2-Butanone-d5	4.66	46	400302	109.53	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.53%
24) Chloroform-d	5.10	84	380396	50.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.72%
26) 1,2-Dichloroethane-d4	5.74	65	267063	51.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.18%
32) Benzene-d6	5.76	84	802018	52.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.00%
36) 1,2-Dichloropropane-d6	6.72	67	251414	52.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.16%
41) Toluene-d8	7.92	98	691509	50.72	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.44%
43) trans-1,3-Dichloropropene-	8.20	79	120590	50.66	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.32%
47) 2-Hexanone-d5	8.65	63	289574	115.03	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	115.03%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	348135	49.20	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.40%
64) 1,2-Dichlorobenzene-d4	12.20	152	269542	52.22	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.44%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	3846	1.022	ug/L #	24
12) 1,1-Dichloroethene	2.60	96	196131	52.795	ug/L	94
16) Methylene chloride	3.08	84	32692	7.658	ug/L	98
19) 1,1-Dichloroethane	3.91	63	44173	5.845	ug/L	95
20) cis-1,2-Dichloroethene	4.71	96	693485	158.642	ug/L	96
27) 1,2-Dichloroethane	5.81	62	8811	1.400	ug/L #	74
30) 1,1,1-Trichloroethane	5.35	97	253368	39.252	ug/L	99
31) Carbon tetrachloride	5.35	117	30860	5.736	ug/L	99
33) Benzene	5.81	78	902509	54.134	ug/L	100
34) Trichloroethene	6.57	95	221828	52.004	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	14632	2.128	ug/L	97
42) Toluene	7.99	91	1362915	77.867	ug/L	100
48) 2-Hexanone	8.71	43	18036	3.107	ug/L #	81
51) Chlorobenzene	9.47	112	587572	52.233	ug/L	100
52) Ethylbenzene	9.59	91	81248	4.143	ug/L	99
53) m,p-Xylene	9.71	106	62274	8.303	ug/L	96
54) o-xylene	10.12	106	23032	3.159	ug/L	95

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Quant Title : VOC Analysis
QLast Update : Fri May 29 04:31:03 2020
Response via : Initial Calibration

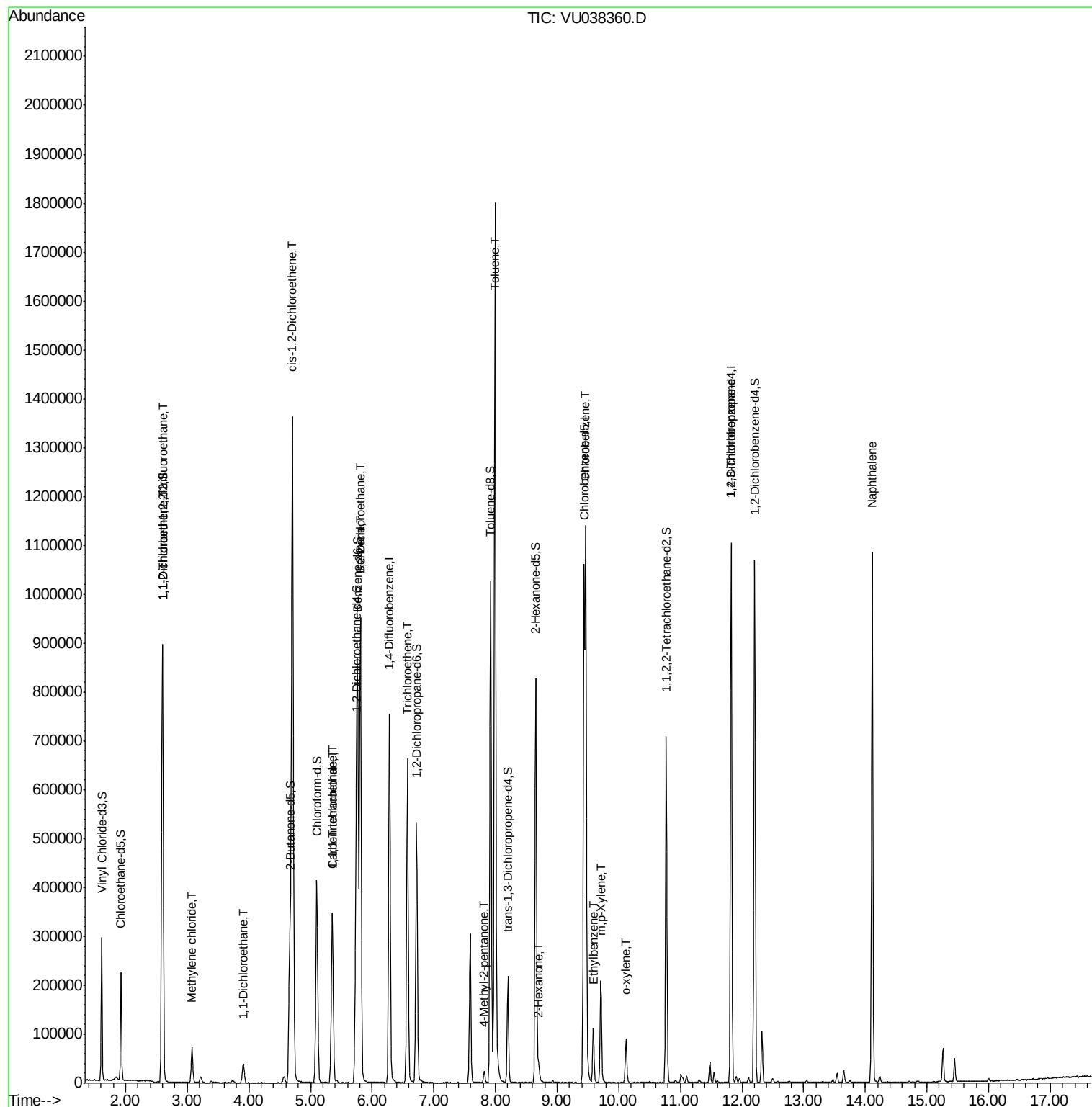
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.83	75	34879	5.769	ug/L	90
69) Naphthalene	14.11	128	834270	41.932	ug/L	100

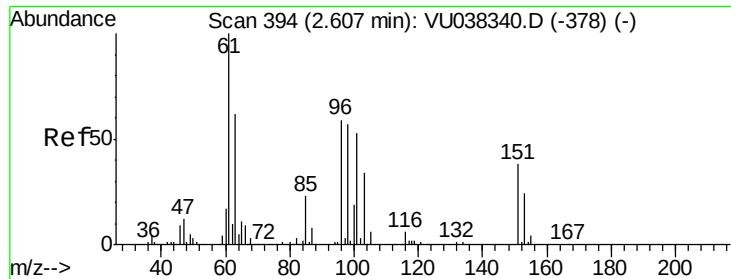
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 29 04:31:03 2020
Response via : Initial Calibration





#10

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

Concen: 1.022 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.01 min

Lab File: VU038360.D

Acq: 28 May 2020 20:41

Instrument :

MSVOA_U

ClientSampleId :

ETKW8MSD

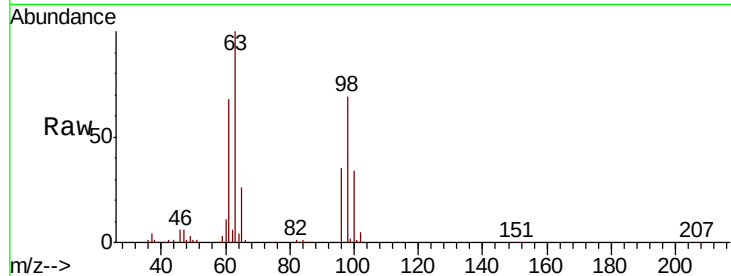
Tot Ion:101 Resp: 3846

Ion Ratio Lower Upper

101 100

85 7.6 35.5 53.3#

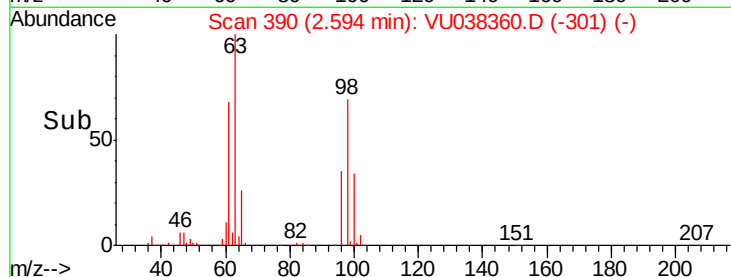
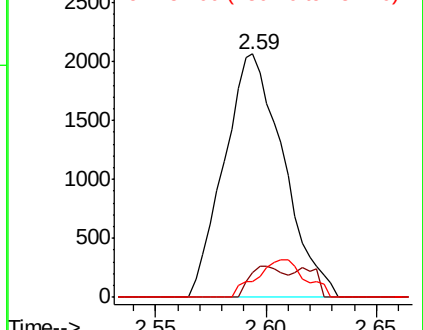
151 0.0 58.4 87.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 52.795 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038360.D

Acq: 28 May 2020 20:41

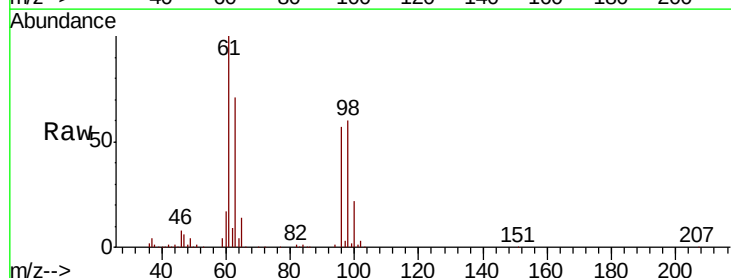
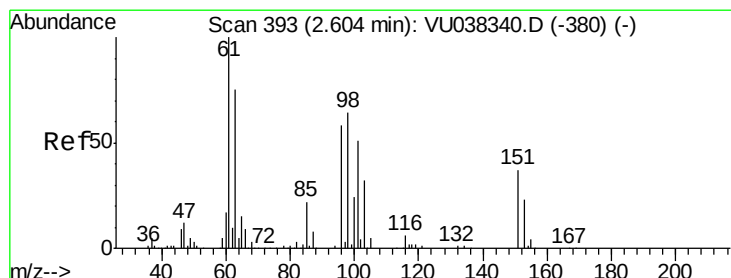
Tgt Ion: 96 Resp: 196131

Ion Ratio Lower Upper

96 100

61 175.1 123.5 229.3

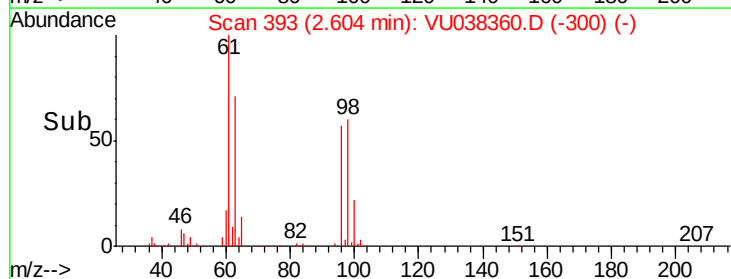
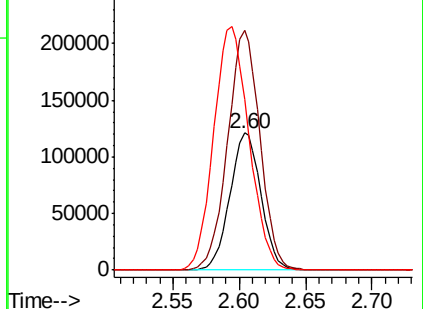
63 124.8 76.6 142.2

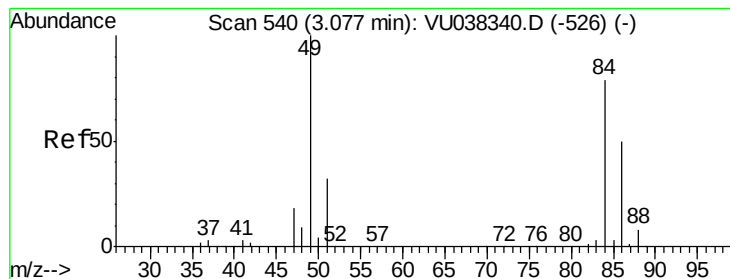


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#16

Methylene chloride

Concen: 7.658 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU038360.D

Acq: 28 May 2020 20:41

Instrument :

MSVOA_U

ClientSampleId :

ETKW8MSD

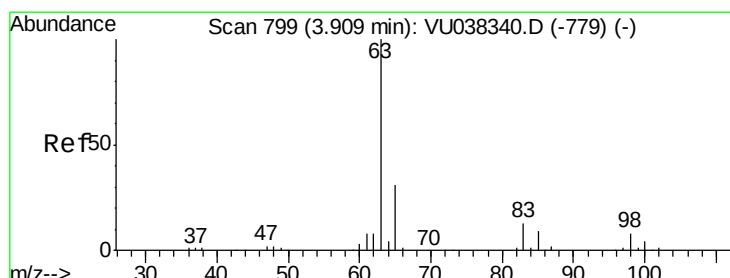
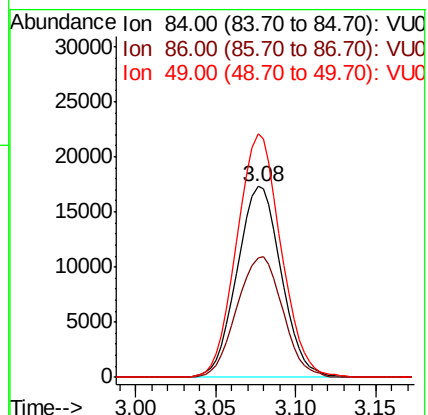
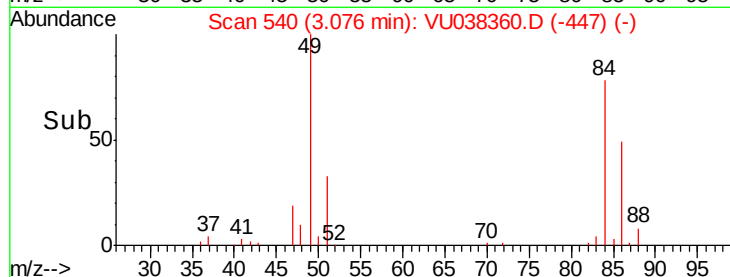
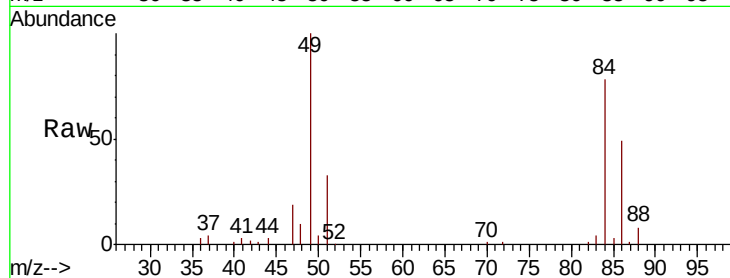
Tot Ion: 84 Resp: 32692

Ion Ratio Lower Upper

84 100

86 62.7 46.1 85.7

49 127.5 90.0 167.2



#19

1,1-Dichloroethane

Concen: 5.845 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU038360.D

Acq: 28 May 2020 20:41

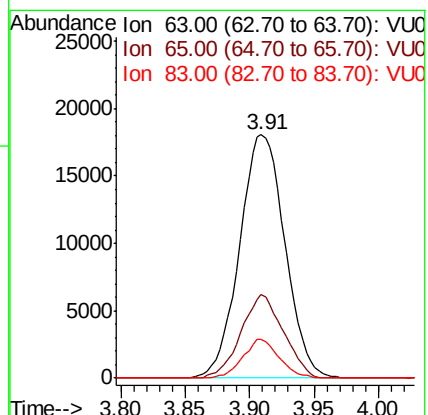
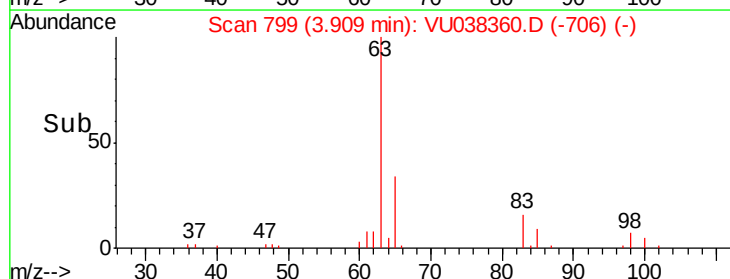
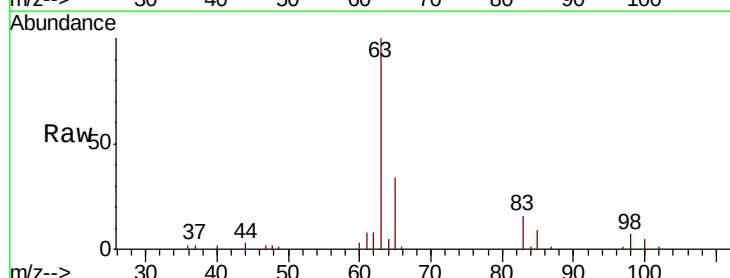
Tgt Ion: 63 Resp: 44173

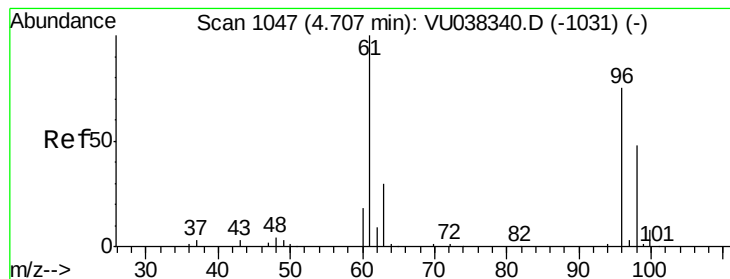
Ion Ratio Lower Upper

63 100

65 34.1 22.2 41.2

83 16.1 9.4 17.4





#20

cis-1,2-Dichloroethene

Concen: 158.642 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU038360.D

Acq: 28 May 2020 20:41

Instrument :

MSVOA_U

ClientSampleId :

ETKW8MSD

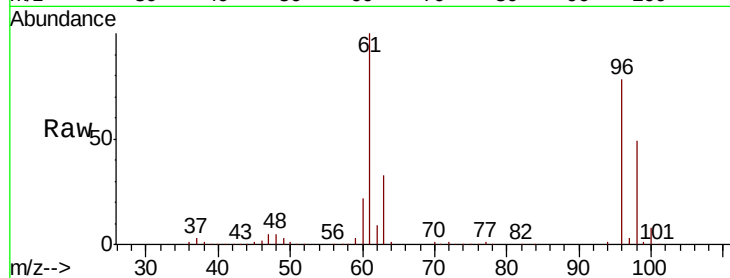
Tot Ion: 96 Resp: 693485

Ion Ratio Lower Upper

96 100

61 128.8 93.4 173.4

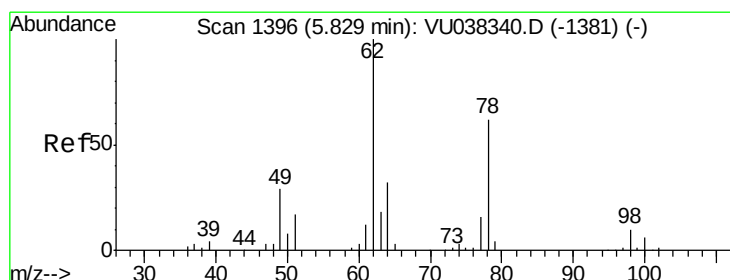
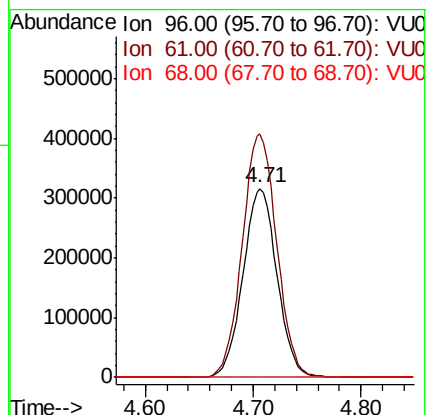
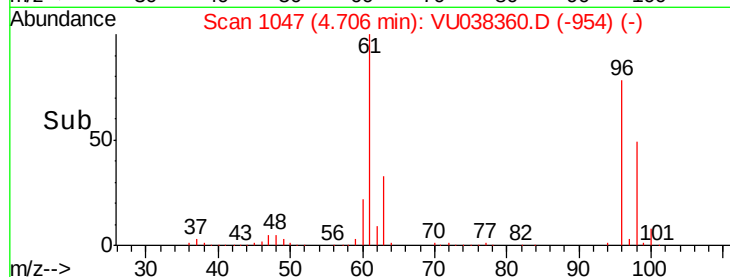
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0



#27

1,2-Dichloroethane

Concen: 1.400 ug/L

RT: 5.81 min Scan# 1391

Delta R.T. -0.02 min

Lab File: VU038360.D

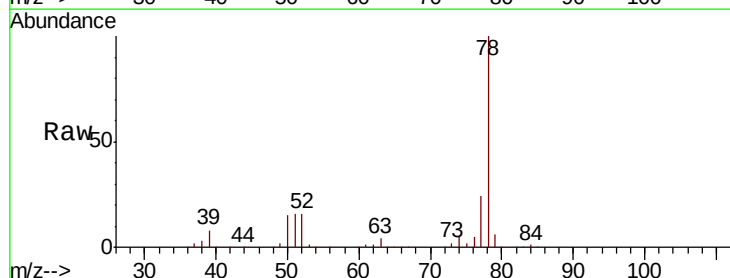
Acq: 28 May 2020 20:41

Tgt Ion: 62 Resp: 8811

Ion Ratio Lower Upper

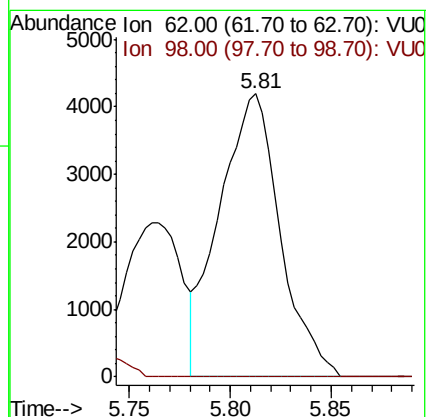
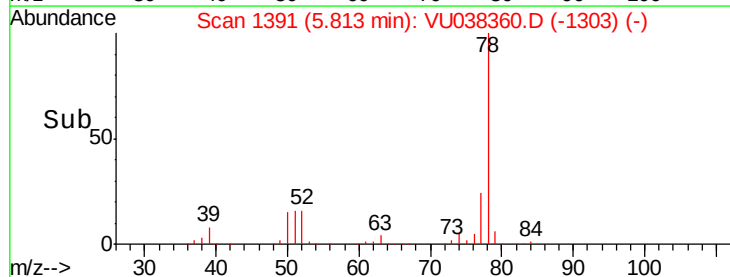
62 100

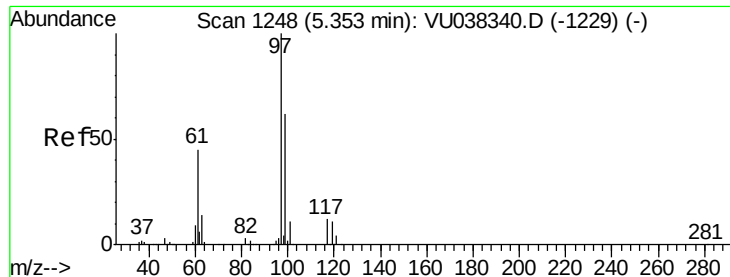
98 0.0 7.5 11.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

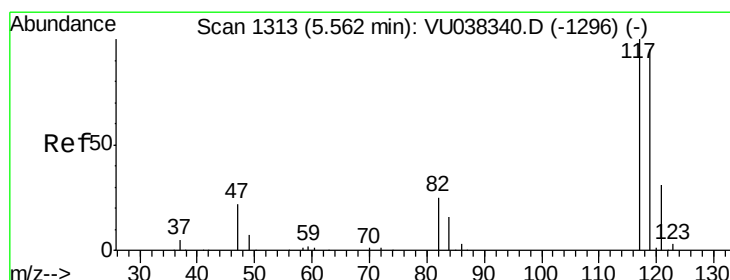
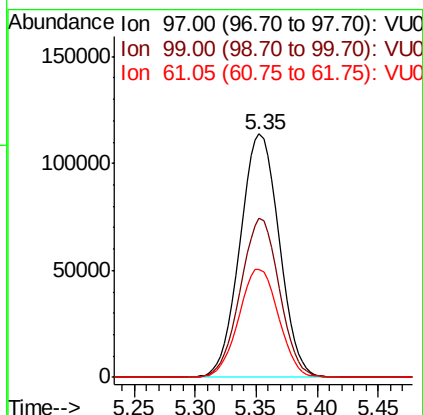
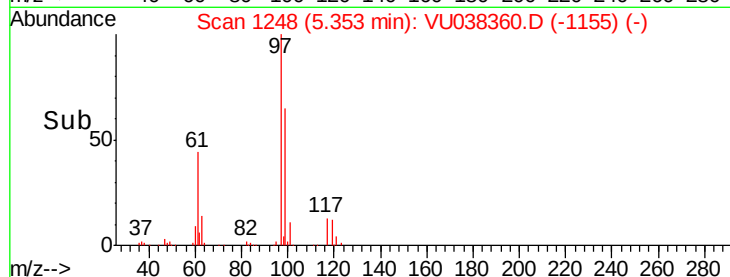
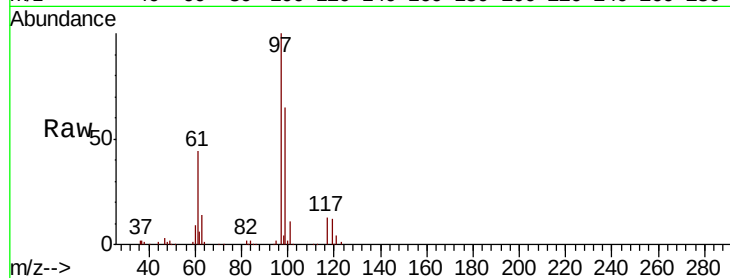




#30
 1,1,1-Trichloroethane
 Concen: 39.252 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU038360.D
 Acq: 28 May 2020 20:41

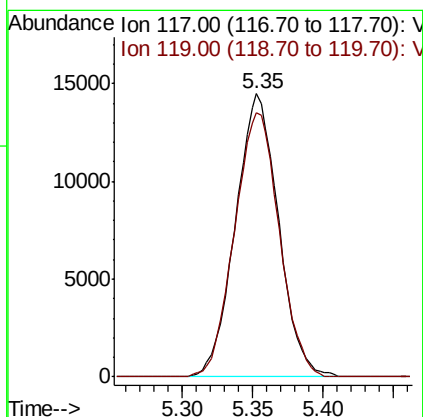
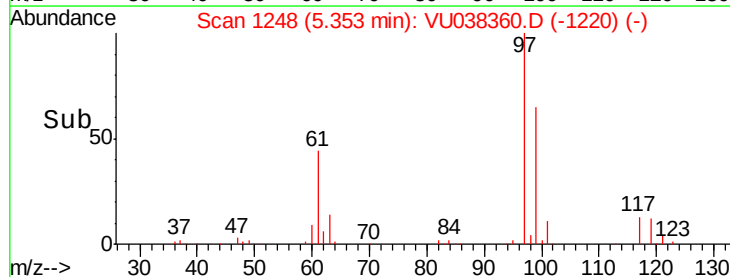
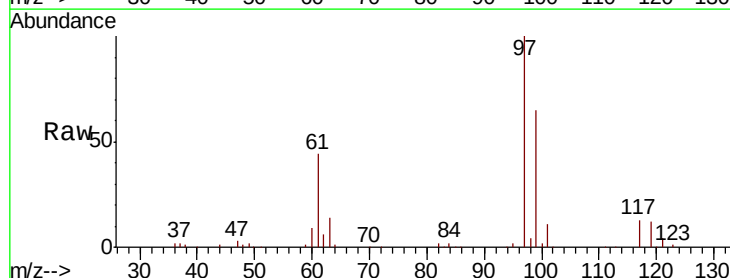
Instrument :
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 ClientSampleId :
 ETKW8MSD

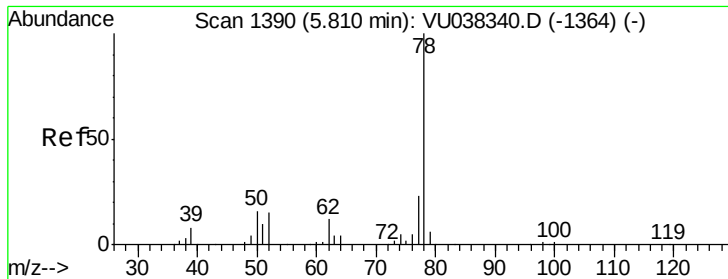
Tot Ion	97	Resp	253368
Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.2	76.8
61	45.3	35.9	53.9



#31
 Carbon tetrachloride
 Concen: 5.736 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.21 min
 Lab File: VU038360.D
 Acq: 28 May 2020 20:41

Tgt Ion	117	Resp	30860
Ion	Ratio	Lower	Upper
117	100		
119	96.8	76.6	114.8





#33

Benzene

Concen: 54.134 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VU038360.D

Acq: 28 May 2020 20:41

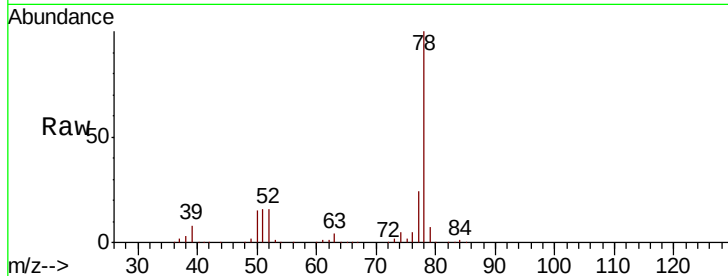
Instrument :

MSVOA_U

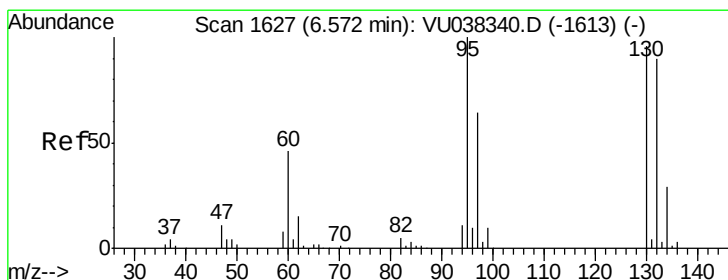
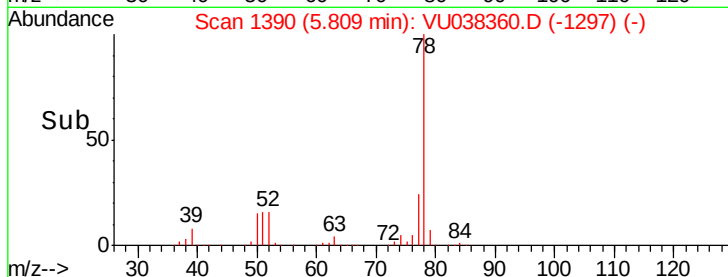
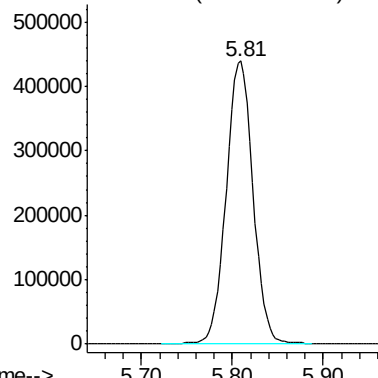
ClientSampleId :

ETKW8MSD

Tgt Ion: 78 Resp: 902509



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 52.004 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU038360.D

Acq: 28 May 2020 20:41

Tgt Ion: 95 Resp: 221828

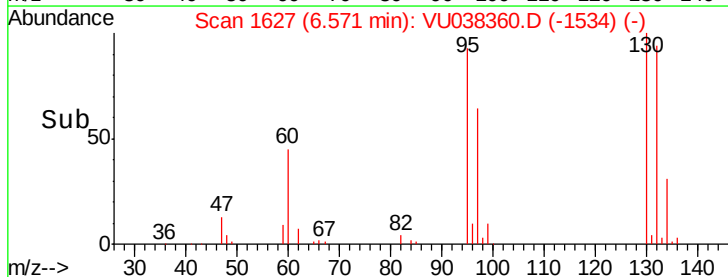
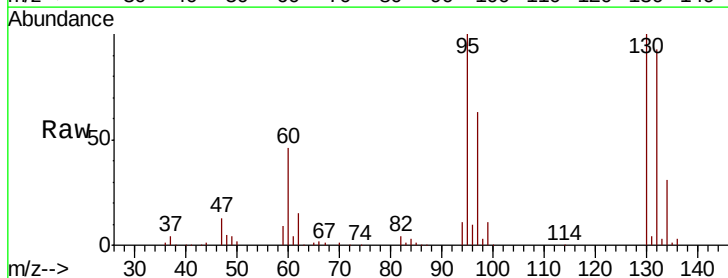
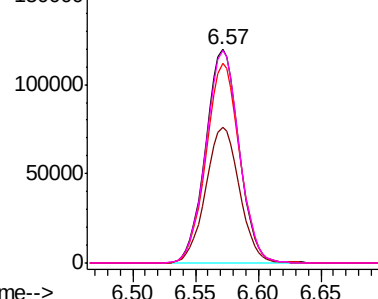
Ion	Ratio	Lower	Upper
95	100		
97	63.4	44.3	82.3
132	93.3	64.7	120.1
130	99.6	68.5	127.1

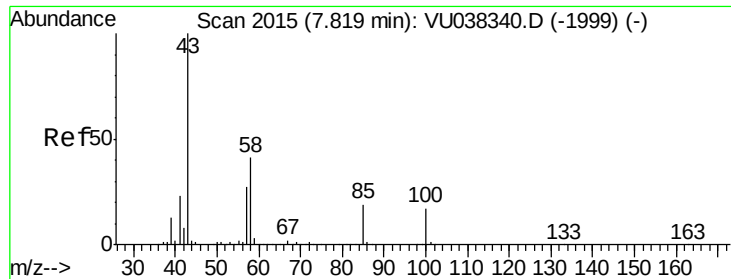
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

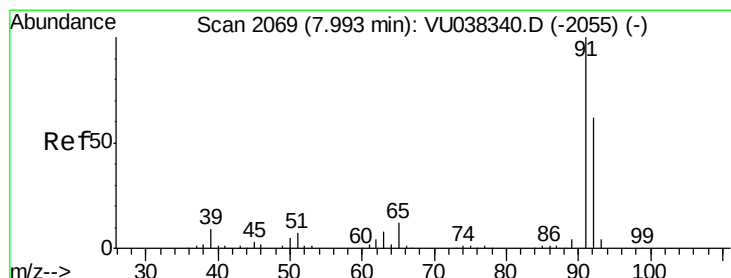
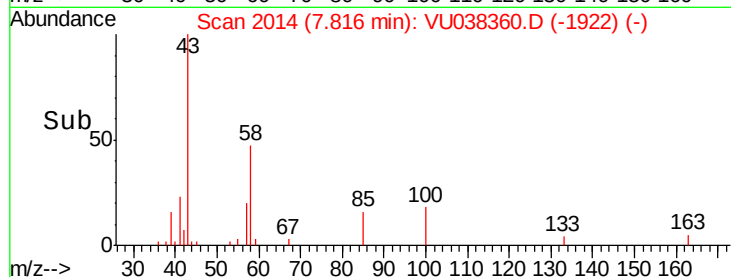
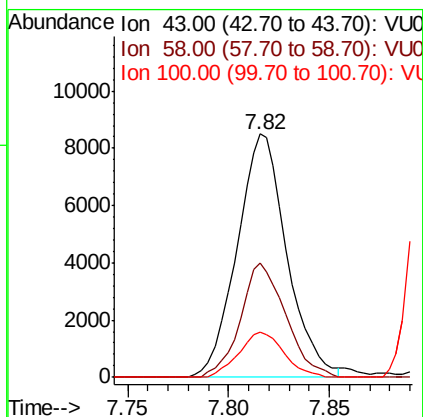
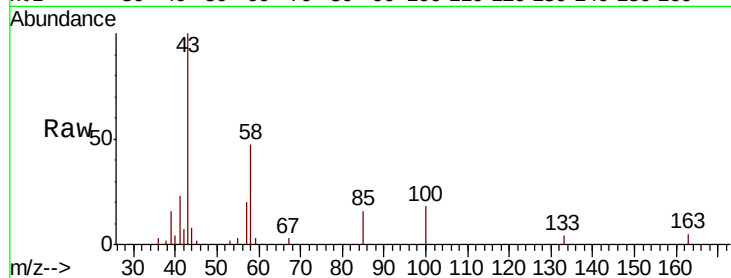




#40
 4-Methyl-2-pentanone
 Concen: 2.128 ug/L
 RT: 7.82 min Scan# 2014
 Delta R.T. -0.00 min
 Lab File: VU038360.D
 Acq: 28 May 2020 20:41

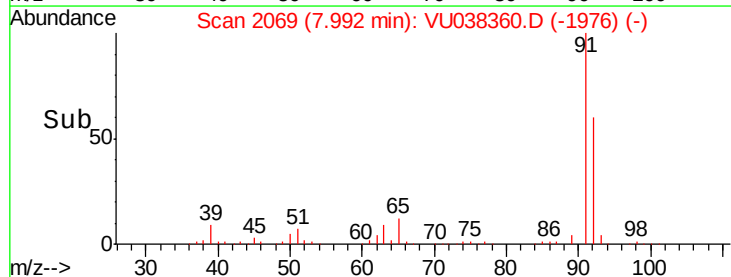
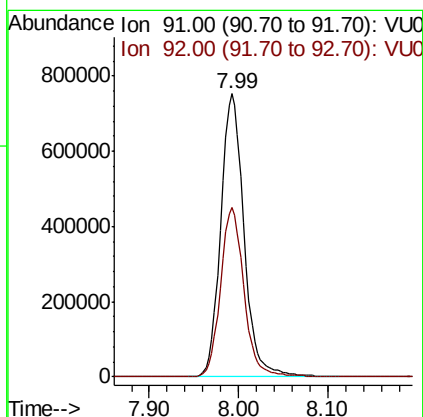
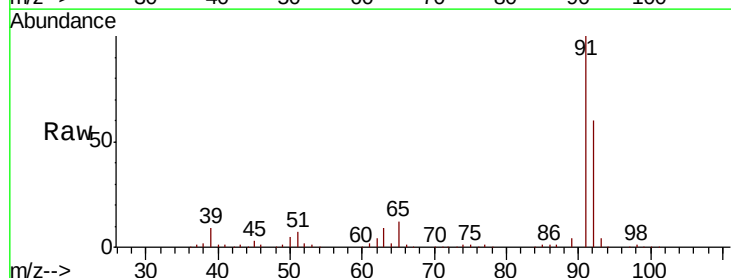
Instrument :
 MSVOA_U
 ClientSampleId :
 ETKW8MSD

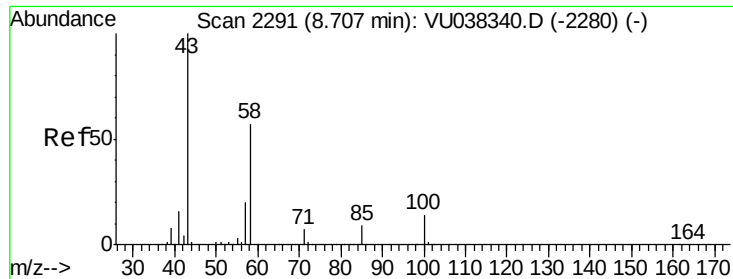
Tot Ion: 43 Resp: 14632
 Ion Ratio Lower Upper
 43 100
 58 42.8 32.6 48.8
 100 16.9 12.9 19.3



#42
 Toluene
 Concen: 77.867 ug/L
 RT: 7.99 min Scan# 2069
 Delta R.T. -0.00 min
 Lab File: VU038360.D
 Acq: 28 May 2020 20:41

Tgt Ion: 91 Resp: 1362915
 Ion Ratio Lower Upper
 91 100
 92 59.7 42.0 78.0

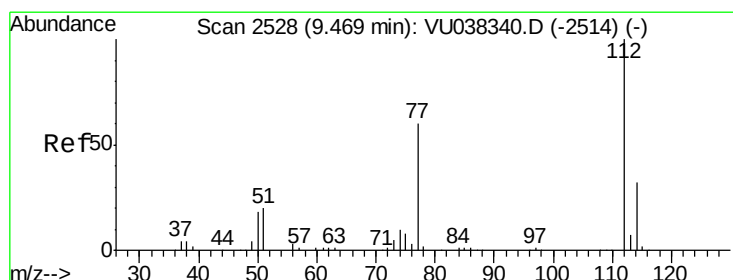
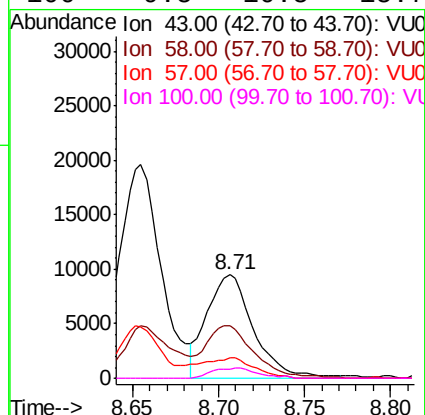
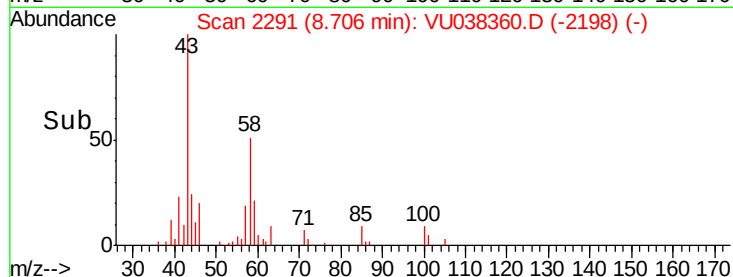
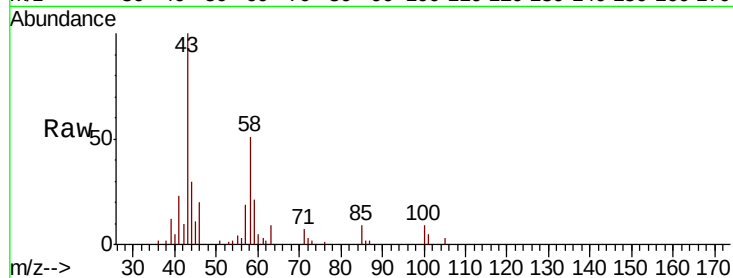




#48
2-Hexanone
Concen: 3.107 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU038360.D
Acq: 28 May 2020 20:41

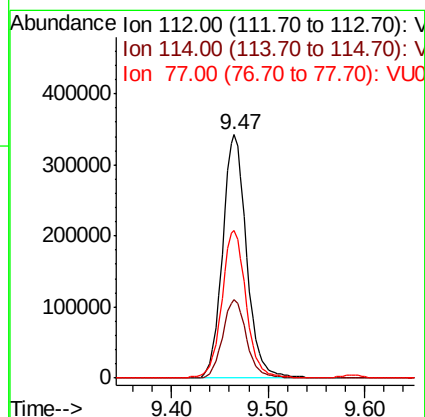
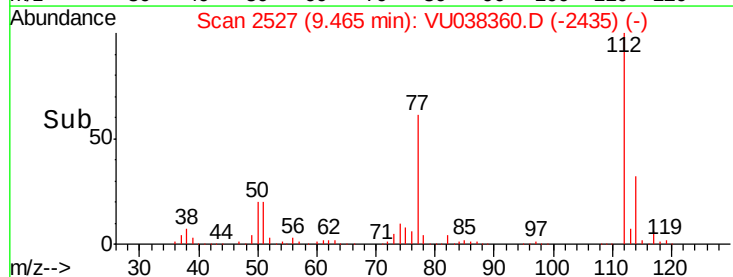
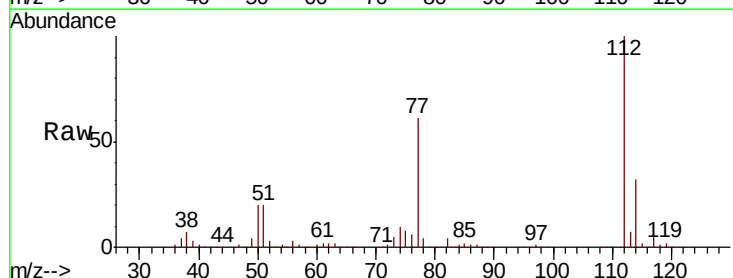
Instrument :
MSVOA_U
ClientSampleId :
ETKW8MSD

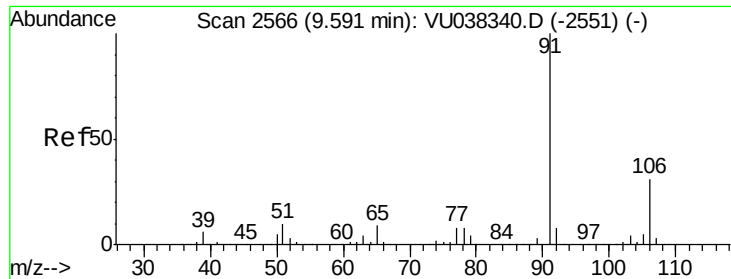
Tot Ion: 43 Resp: 18036
Ion Ratio Lower Upper
43 100
58 48.4 45.5 68.3
57 0.0 16.3 24.5#
100 9.5 10.5 15.7#



#51
Chlorobenzene
Concen: 52.233 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. -0.00 min
Lab File: VU038360.D
Acq: 28 May 2020 20:41

Tgt Ion: 112 Resp: 587572
Ion Ratio Lower Upper
112 100
114 32.0 22.6 42.0
77 60.8 48.8 73.2





#52

Ethylbenzene

Concen: 4.143 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU038360.D

Acq: 28 May 2020 20:41

Instrument :

MSVOA_U

ClientSampleId :

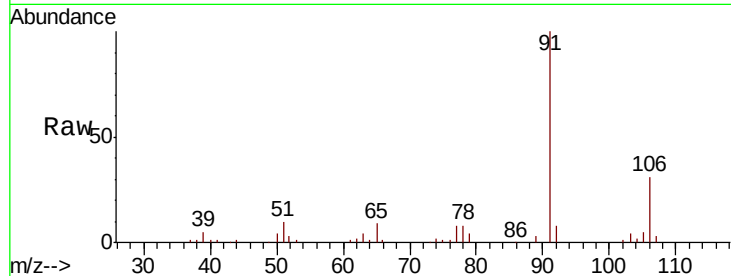
ETKW8MSD

Tot Ion: 91 Resp: 81248

Ion Ratio Lower Upper

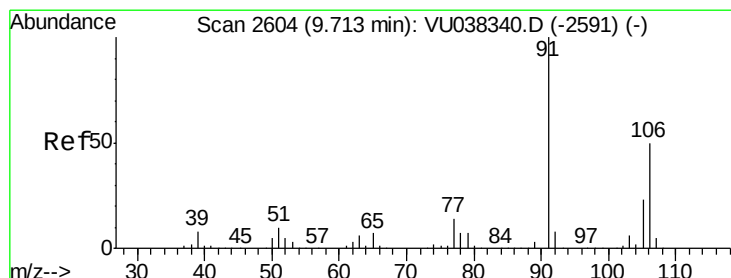
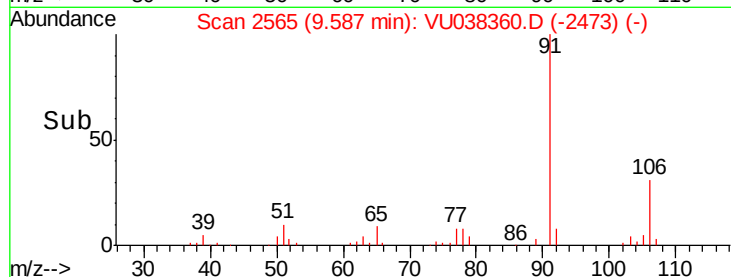
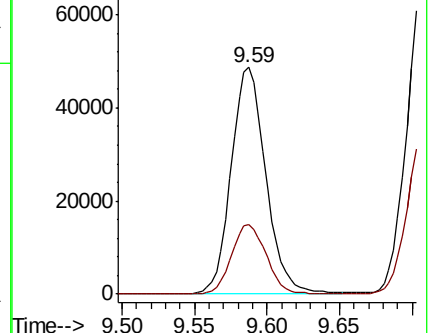
91 100

106 30.6 21.2 39.4



Abundance Ion 91.00 (90.70 to 91.70): VU038340.D (-2551) (-)

Ion 106.00 (105.70 to 106.70): VU038360.D (-2473) (-)



#53

m,p-Xylene

Concen: 8.303 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU038360.D

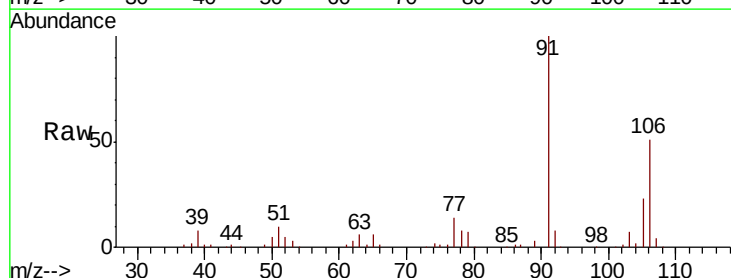
Acq: 28 May 2020 20:41

Tgt Ion: 106 Resp: 62274

Ion Ratio Lower Upper

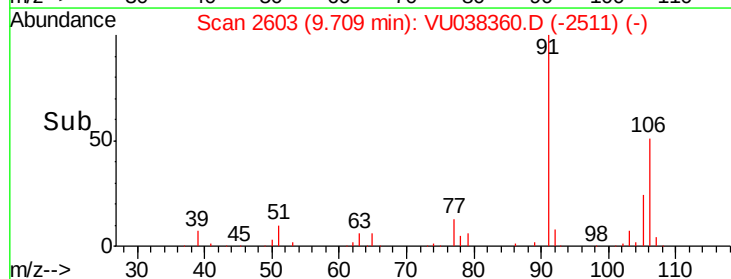
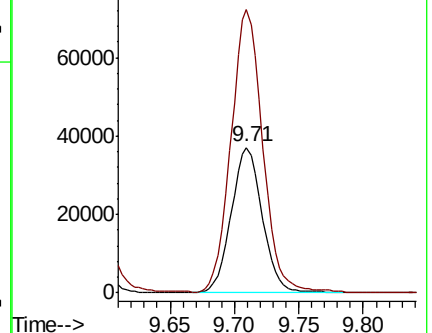
106 100

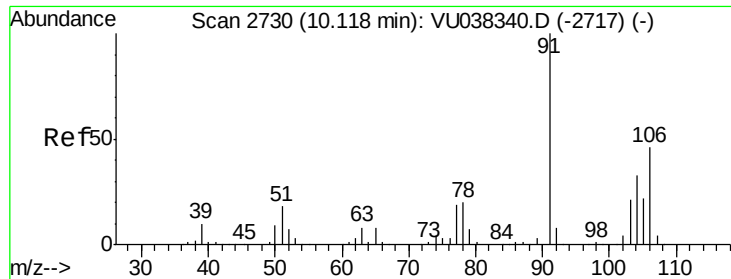
91 195.0 140.8 261.4



Abundance Ion 106.00 (105.70 to 106.70): VU038360.D (-2511) (-)

Ion 91.00 (90.70 to 91.70): VU038340.D (-2591) (-)





#54

o-xylene

Concen: 3.159 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU038360.D

Acq: 28 May 2020 20:41

Instrument :

MSVOA_U

ClientSampleId :

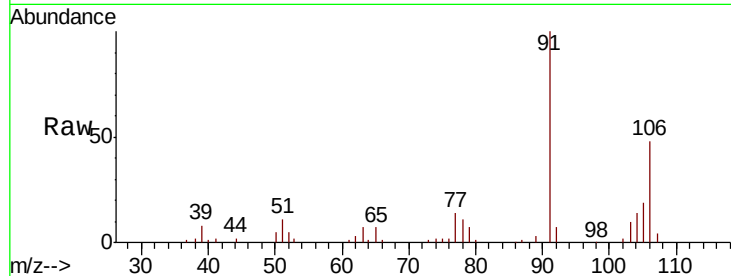
ETKW8MSD

Tot Ion:106 Resp: 23032

Ion Ratio Lower Upper

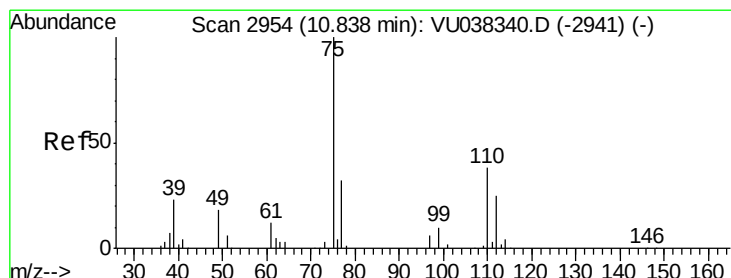
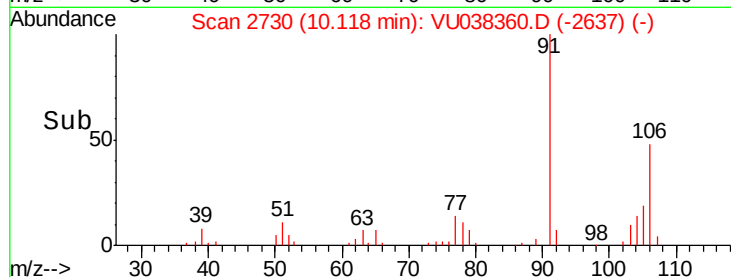
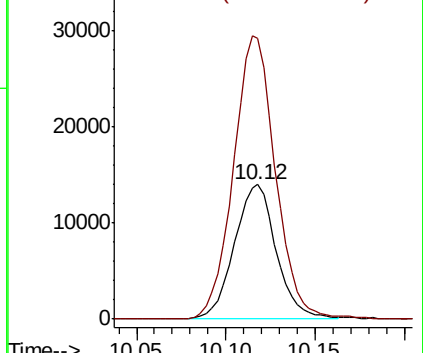
106 100

91 208.5 151.3 280.9



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: 5.769 ug/L

RT: 11.83 min Scan# 3261

Delta R.T. 0.99 min

Lab File: VU038360.D

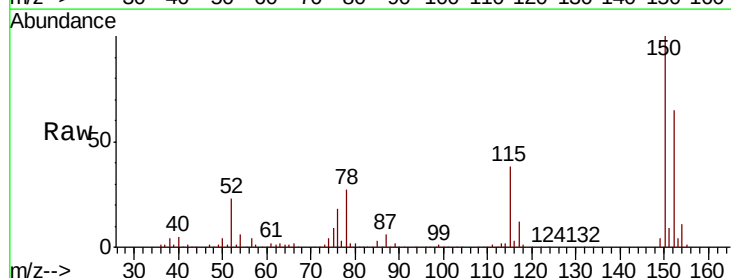
Acq: 28 May 2020 20:41

Tgt Ion: 75 Resp: 34879

Ion Ratio Lower Upper

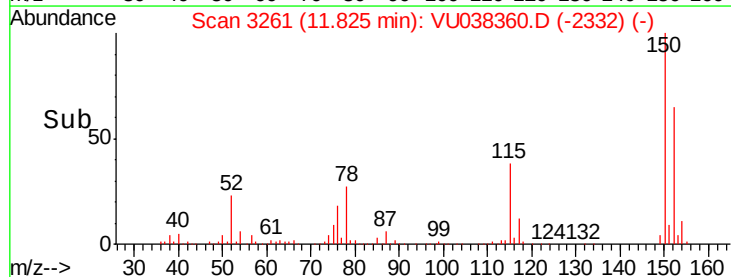
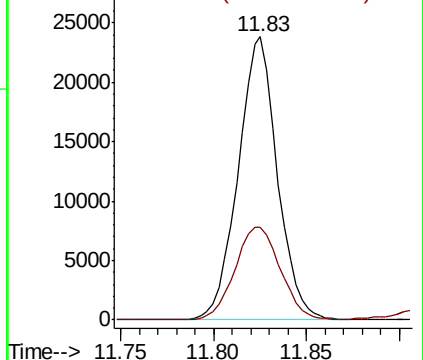
75 100

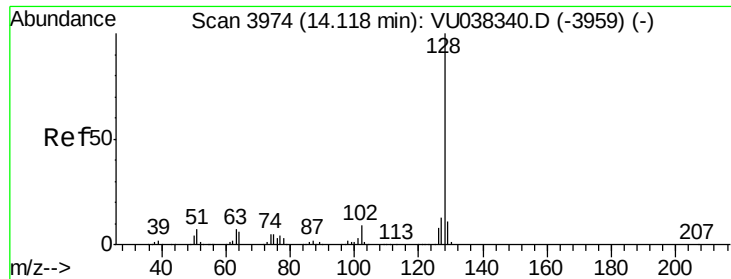
77 38.0 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#69

Naphthalene

Concen: 41.932 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.01 min

Lab File: VU038360.D

Acq: 28 May 2020 20:41

Instrument :

MSVOA_U

ClientSampleId :

ETKW8MSD

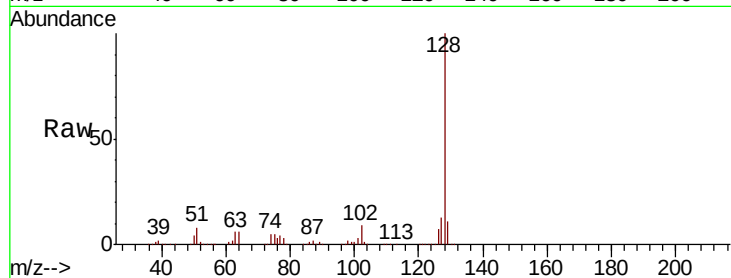
Tot Ion:128 Resp: 834270

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

129 10.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

