

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102219\
 Data File : VU035355.D
 Acq On : 22 Oct 2019 11:07
 Operator : JC/SP
 Sample : K5461-14MS
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 06:52:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 23 06:48:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	306102	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	293585	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	117581	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	74650	4.00	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.00%
7) Chloroethane-d5	1.93	69	76497	4.48	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.60%
11) 1,1-Dichloroethene-d2	2.60	63	145634	4.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	84.40%
20) 2-Butanone-d5	4.70	46	259292	48.34	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.68%
24) Chloroform-d	5.11	84	155458	4.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.20%
26) 1,2-Dichloroethane-d4	5.75	65	91629	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.00%
32) Benzene-d6	5.77	84	308019	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
36) 1,2-Dichloropropane-d6	6.74	67	108703	5.10	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.00%
41) Toluene-d8	7.93	98	276506	4.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.20%
43) trans-1,3-Dichloropropene-	8.21	79	40398	3.91	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.20%
46) 2-Hexanone-d5	8.68	63	208467	45.69	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.38%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	91202	4.80	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.00%
64) 1,2-Dichlorobenzene-d4	12.22	152	94674	4.42	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.40%

Target Compounds

					Ovalue
5) Vinyl chloride	1.62	62	14353	0.541 ug/L #	37
12) 1,1-Dichloroethene	2.61	96	68905	3.504 ug/L	92
13) Acetone	2.67	43	35046	9.393 ug/L	100
15) Methyl Acetate	2.99	43	7222	0.777 ug/L #	50
16) Methylene chloride	3.08	84	1892	0.080 ug/L	88
17) Methyl tert-butyl Ether	3.43	73	90047	1.701 ug/L #	76
18) trans-1,2-Dichloroethene	3.39	96	7020	0.331 ug/L	92
19) 1,1-Dichloroethane	3.92	63	3891	0.101 ug/L	97
21) 2-Butanone	4.78	43	14582	2.398 ug/L	97
22) cis-1,2-Dichloroethene	4.72	96	123787	5.277 ug/L	100
25) Chloroform	5.13	83	8401	0.199 ug/L	80
27) 1,2-Dichloroethane	5.82	62	3595	0.139 ug/L #	74
33) Benzene	5.82	78	365263	4.228 ug/L	100
34) Trichloroethene	6.58	95	458779	19.755 ug/L	95
37) 1,2-Dichloropropane	6.73	63	11949	0.545 ug/L #	86
42) Toluene	8.01	91	402829	4.224 ug/L	100
47) Tetrachloroethene	8.58	164	15352	0.793 ug/L	94

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QLast Update : Wed Oct 23 06:48:58 2019
Response via : Initial Calibration

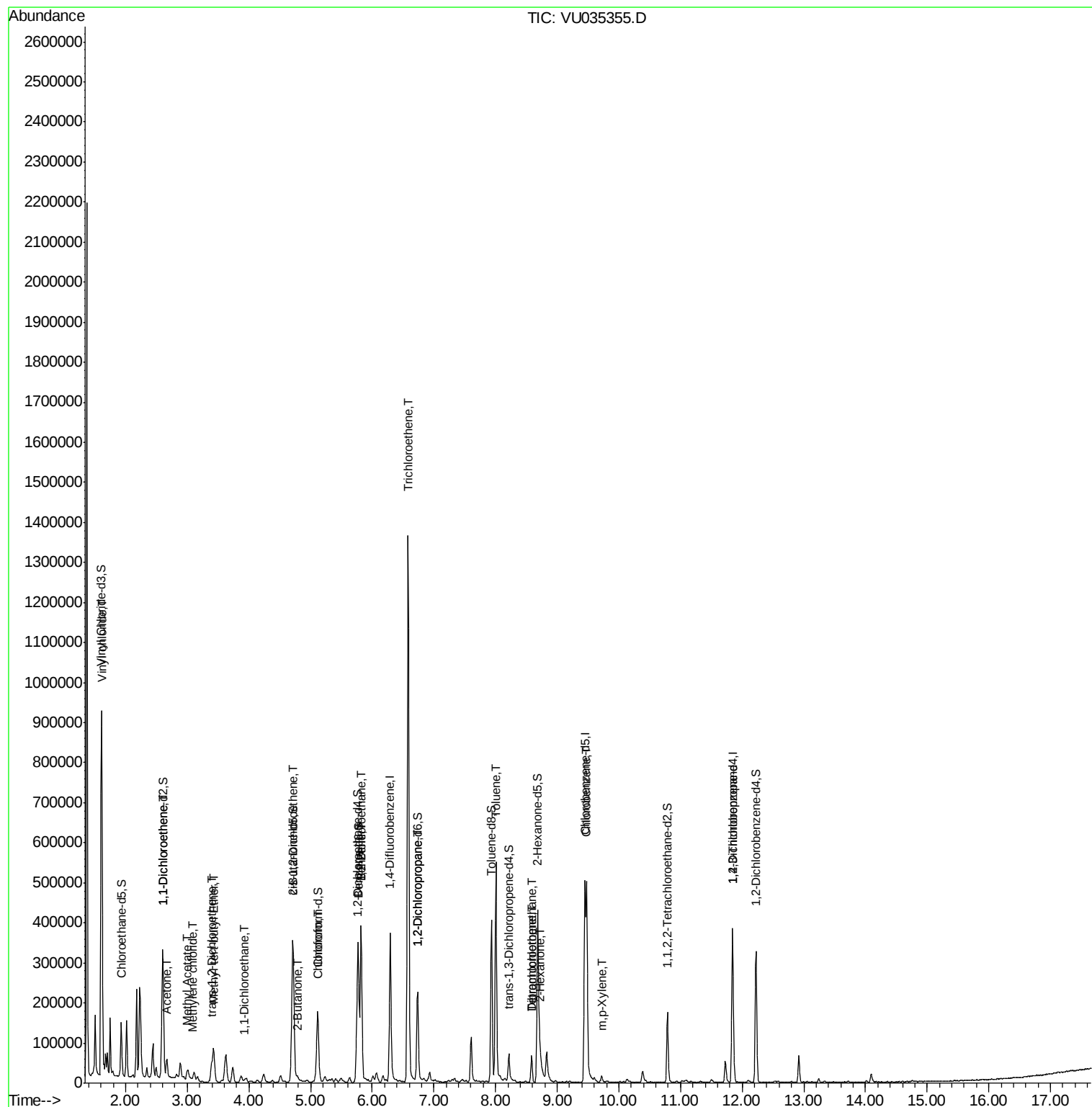
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.73	43	13793	1.329	ug/L #	95
49) Dibromochloromethane	8.58	129	14364	0.696	ug/L #	11
51) Chlorobenzene	9.48	112	266516	4.329	ug/L	99
53) m,p-Xylene	9.72	106	4583	0.112	ug/L	91
59) 1,2,3-Trichloropropane	11.84	75	15100	0.988	ug/L	92

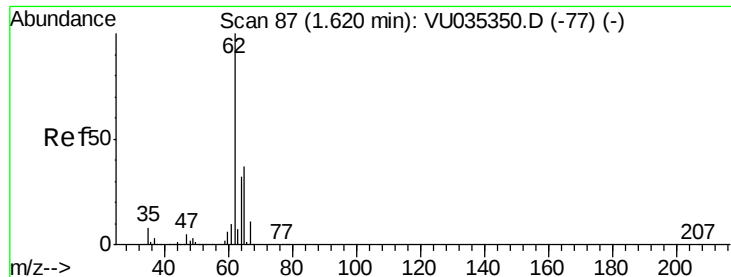
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.541 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VU035355.D

Acq: 22 Oct 2019 11:07

Instrument :

MSVOA_U

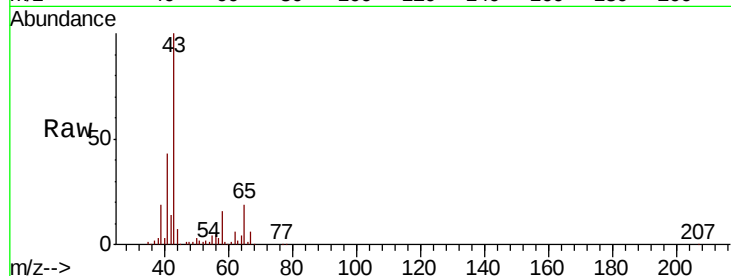
ClientSampled :

Tot Ion: 62 Resp: 14353

Ion Ratio Lower Upper

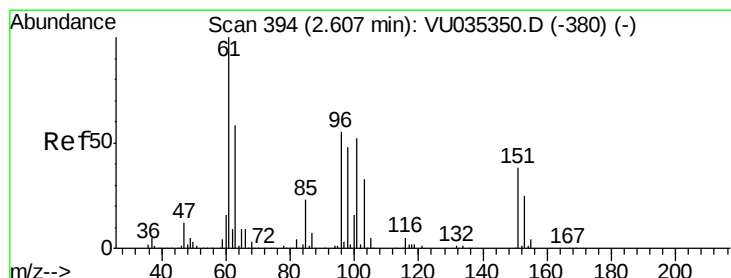
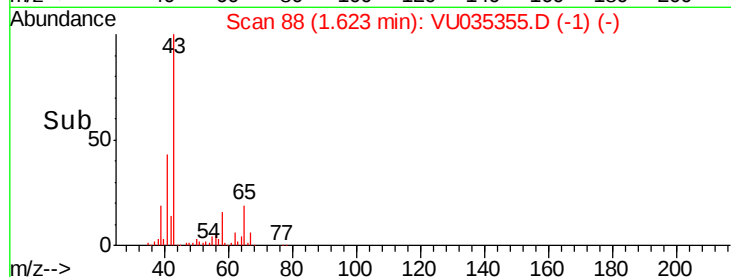
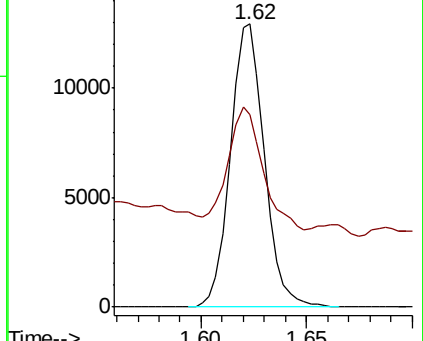
62 100

64 67.9 22.9 42.5#



Abundance Ion 62.00 (61.70 to 62.70): VU035355.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU035355.D (-1) (-)



#12

1,1-Dichloroethene

Concen: 3.504 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035355.D

Acq: 22 Oct 2019 11:07

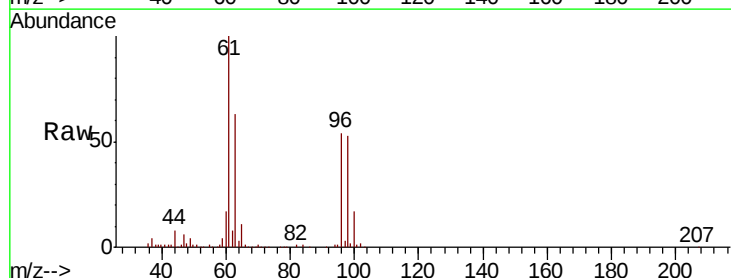
Tgt Ion: 96 Resp: 68905

Ion Ratio Lower Upper

96 100

61 186.4 120.6 224.0

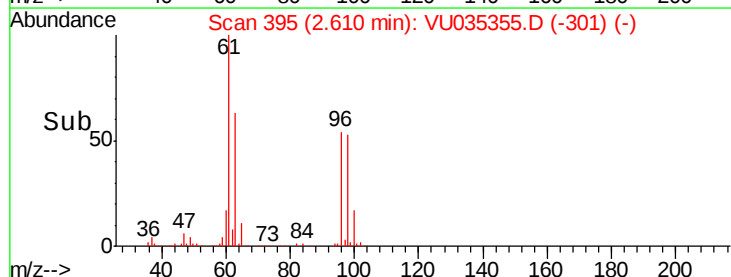
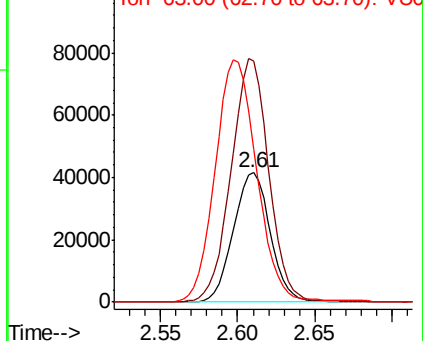
63 118.2 86.8 161.2

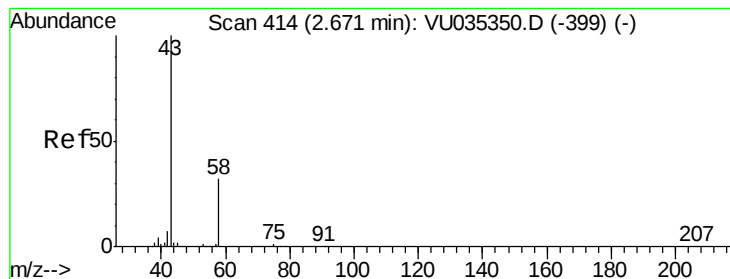


Abundance Ion 96.00 (95.70 to 96.70): VU035355.D (-301) (-)

Ion 61.05 (60.75 to 61.75): VU035355.D (-301) (-)

Ion 63.00 (62.70 to 63.70): VU035355.D (-301) (-)





#13

Acetone

Concen: 9.393 ug/L

RT: 2.67 min Scan# 414

Delta R.T. -0.00 min

Lab File: VU035355.D

Acq: 22 Oct 2019 11:07

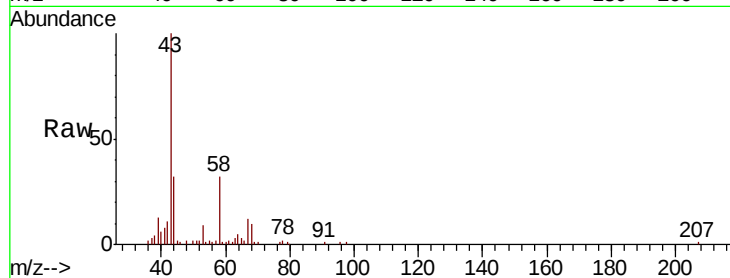
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 35046

Ion Ratio Lower Upper

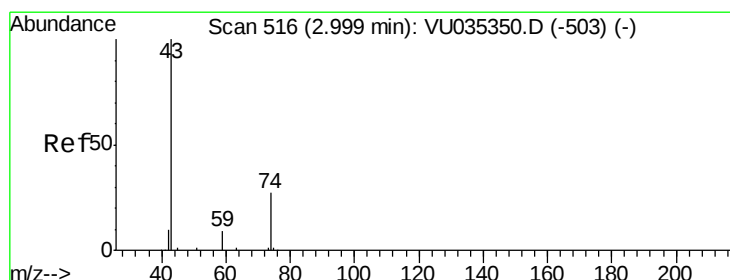
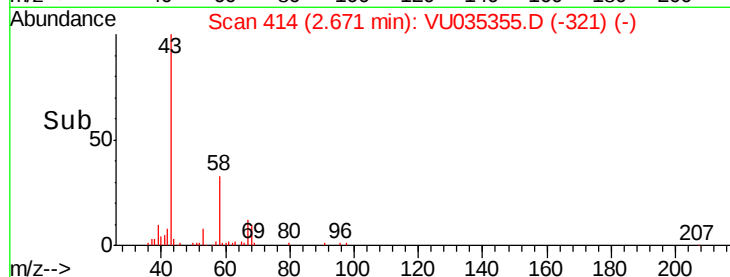
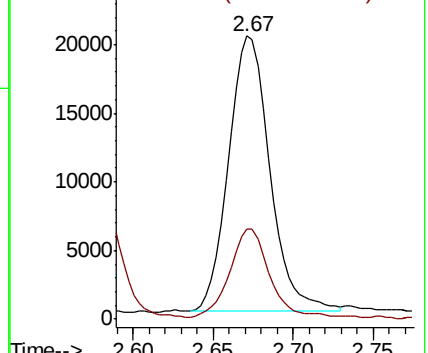
43 100

58 31.1 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU035355.D (-400) (-)

Ion 58.05 (57.75 to 58.75): VU035355.D (-400) (-)



#15

Methyl Acetate

Concen: 0.777 ug/L

RT: 2.99 min Scan# 513

Delta R.T. -0.01 min

Lab File: VU035355.D

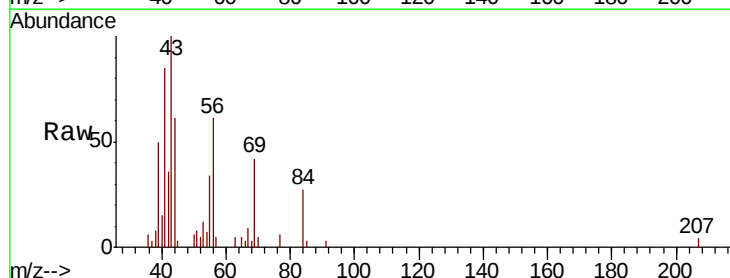
Acq: 22 Oct 2019 11:07

Tgt Ion: 43 Resp: 7222

Ion Ratio Lower Upper

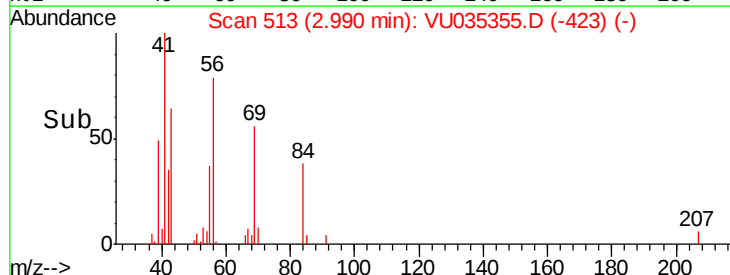
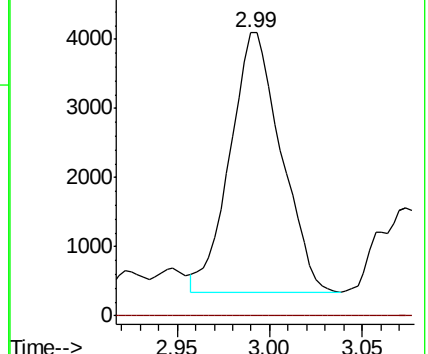
43 100

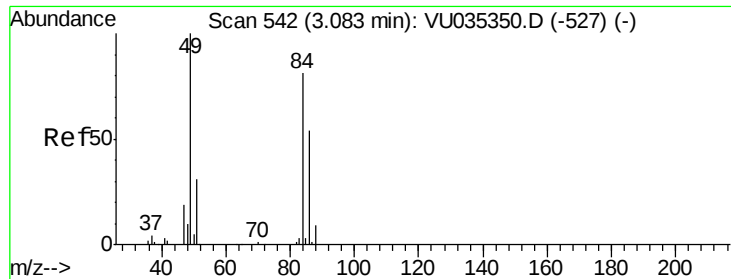
74 0.0 20.3 30.5#



Abundance Ion 43.05 (42.75 to 43.75): VU035355.D (-423) (-)

Ion 74.05 (73.75 to 74.75): VU035355.D (-423) (-)

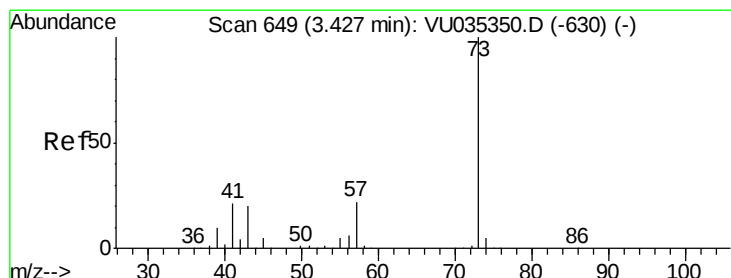
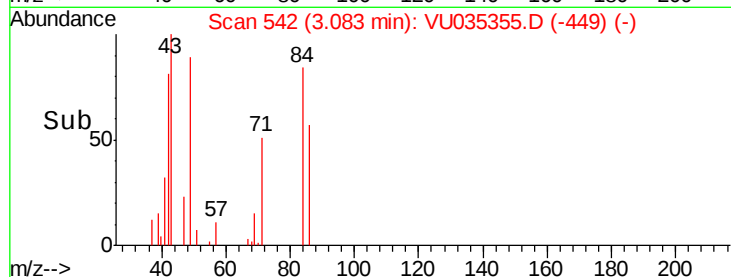
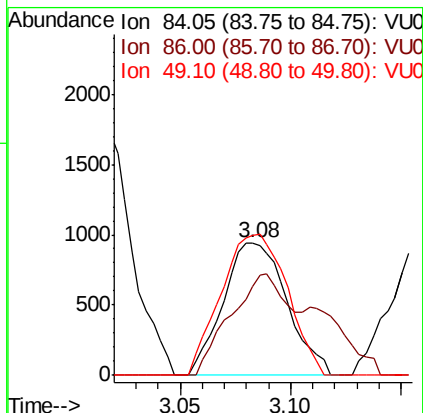
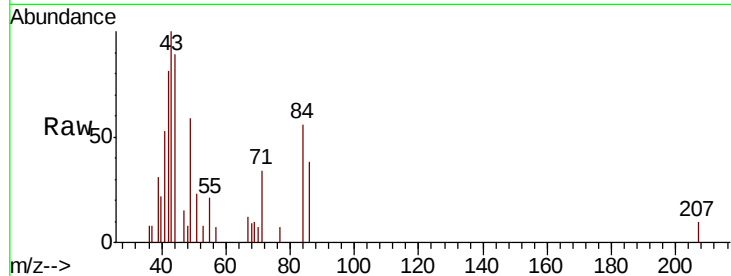




#16
Methylene chloride
Concen: 0.080 ug/L
RT: 3.08 min Scan# 542
Delta R.T. -0.00 min
Lab File: VU035355.D
Acq: 22 Oct 2019 11:07

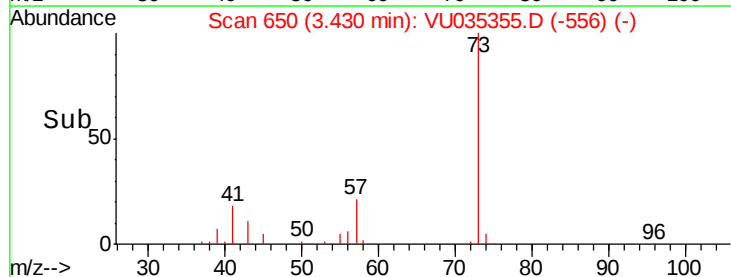
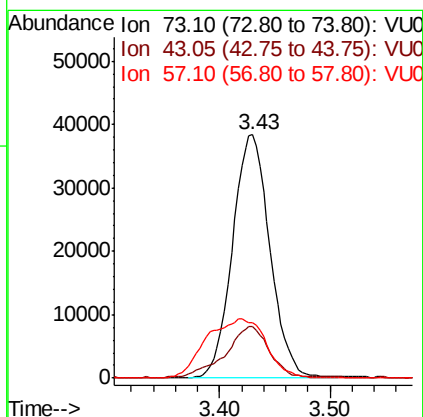
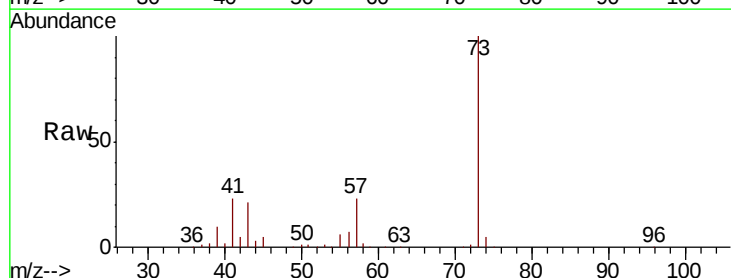
Instrument :
MSVOA_U
ClientSampled :

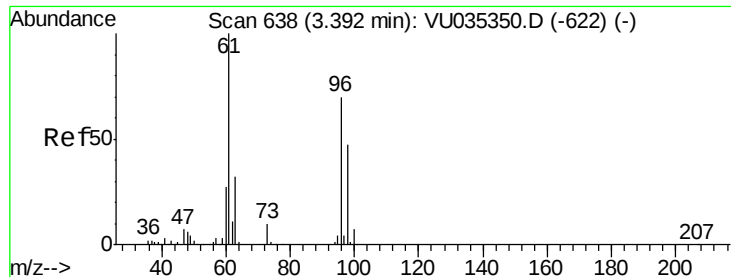
Tot Ion: 84 Resp: 1892
Ion Ratio Lower Upper
84 100
86 67.3 45.4 84.2
49 105.8 86.8 161.2



#17
Methyl tert-butyl Ether
Concen: 1.701 ug/L
RT: 3.43 min Scan# 650
Delta R.T. 0.00 min
Lab File: VU035355.D
Acq: 22 Oct 2019 11:07

Tgt Ion: 73 Resp: 90047
Ion Ratio Lower Upper
73 100
43 25.1 16.0 24.0#
57 38.9 17.4 26.2#





#18

trans-1,2-Dichloroethene

Concen: 0.331 ug/L

RT: 3.39 min Scan# 638

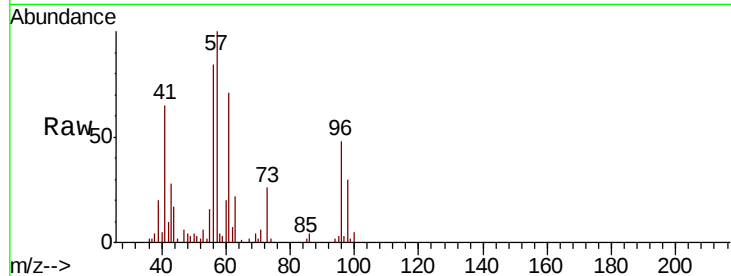
Delta R.T. -0.00 min

Lab File: VU035355.D

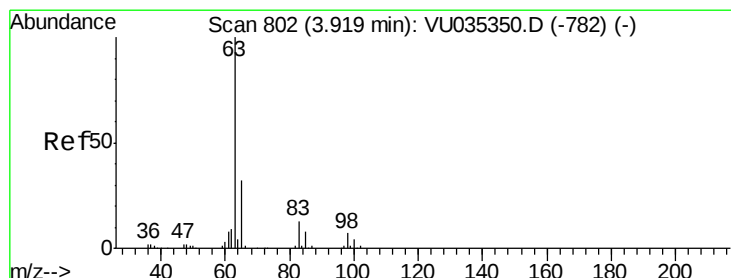
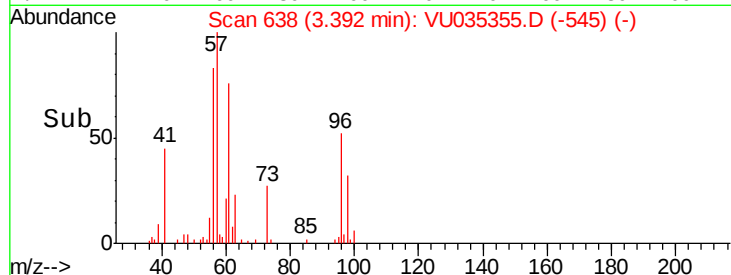
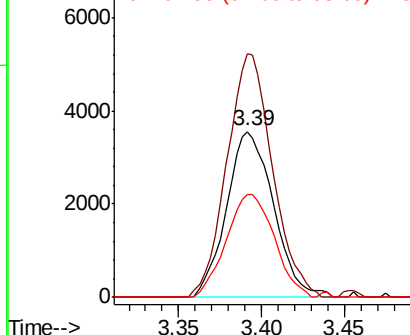
Acq: 22 Oct 2019 11:07

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:	96	Resp:	7020
Ion	Ratio	Lower	Upper
96	100		
61	147.0	93.0	172.6
98	62.0	43.7	81.1



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0



#19

1,1-Dichloroethane

Concen: 0.101 ug/L

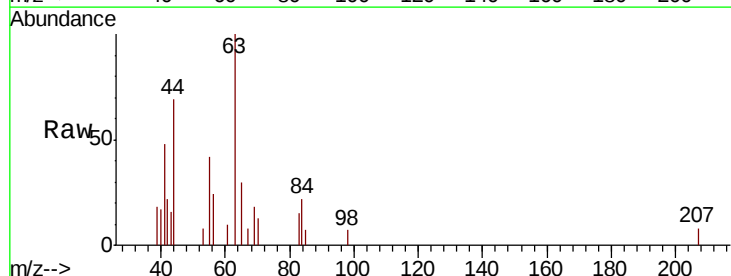
RT: 3.92 min Scan# 802

Delta R.T. -0.00 min

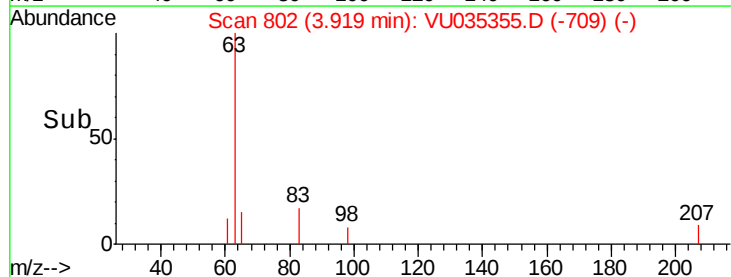
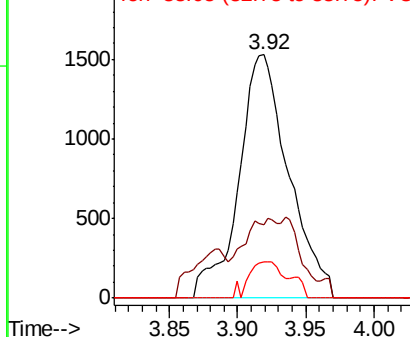
Lab File: VU035355.D

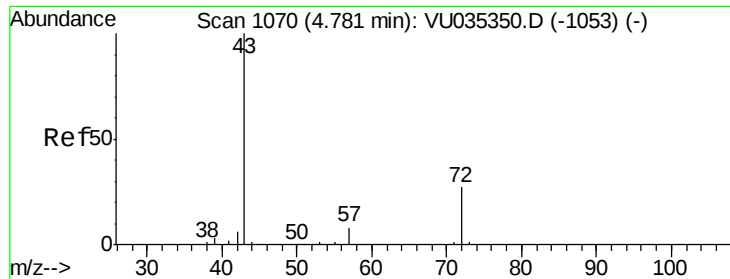
Acq: 22 Oct 2019 11:07

Tgt Ion:	63	Resp:	3891
Ion	Ratio	Lower	Upper
63	100		
65	30.3	22.4	41.6
83	14.8	9.3	17.3



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





#21

2-Butanone

Concen: 2.398 ug/L

RT: 4.78 min Scan# 1071

Delta R.T. 0.00 min

Lab File: VU035355.D

Acq: 22 Oct 2019 11:07

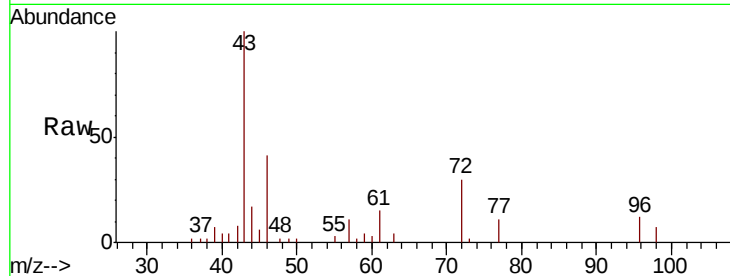
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 14582

Ion Ratio Lower Upper

43 100

72 28.9 13.6 40.8



Abundance Ion 43.05 (42.75 to 43.75): VU035355.D (-977) (-)

Ion 72.10 (71.80 to 72.80): VU035355.D (-977) (-)

4.78

6000

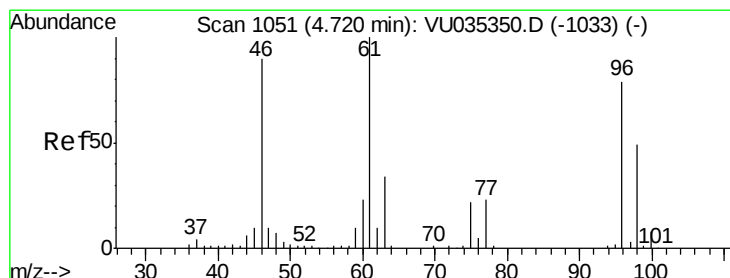
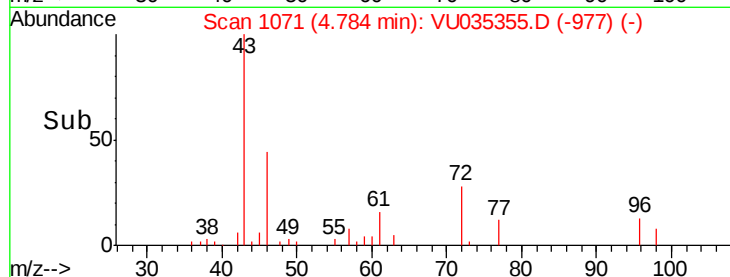
4000

2000

0

Time-->

4.70 4.75 4.80 4.85



#22

cis-1,2-Dichloroethene

Concen: 5.277 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VU035355.D

Acq: 22 Oct 2019 11:07

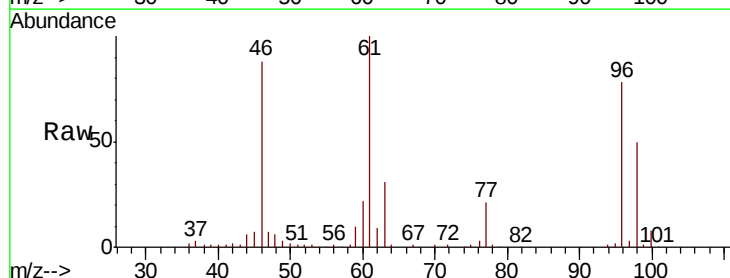
Tgt Ion: 96 Resp: 123787

Ion Ratio Lower Upper

96 100

61 128.6 89.7 166.5

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035355.D (-958) (-)

Ion 61.05 (60.75 to 61.75): VU035355.D (-958) (-)

Ion 68.15 (67.85 to 68.85): VU035355.D (-958) (-)

4.72

80000

60000

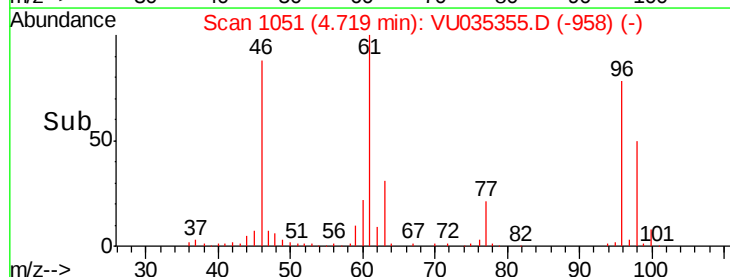
40000

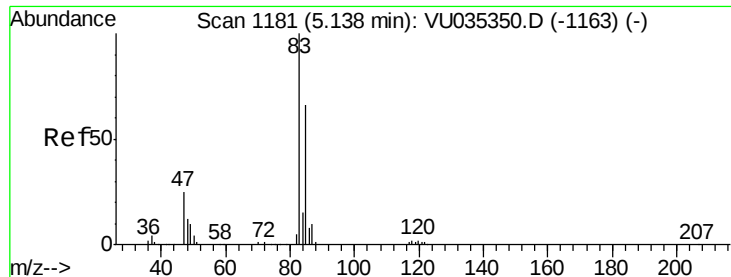
20000

0

Time-->

4.60 4.70 4.80

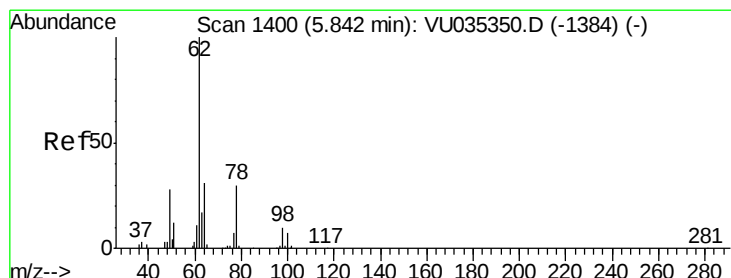
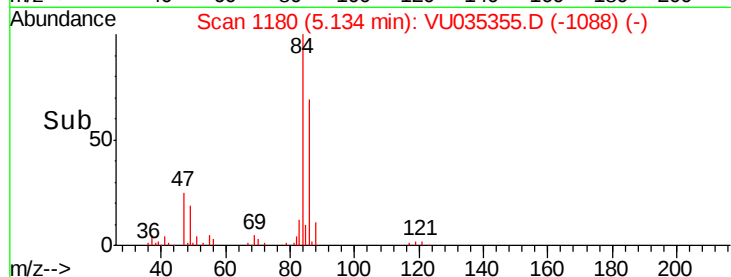
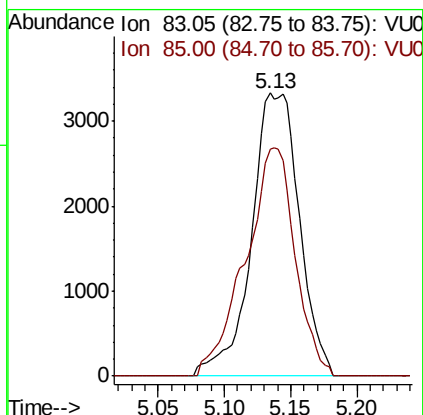
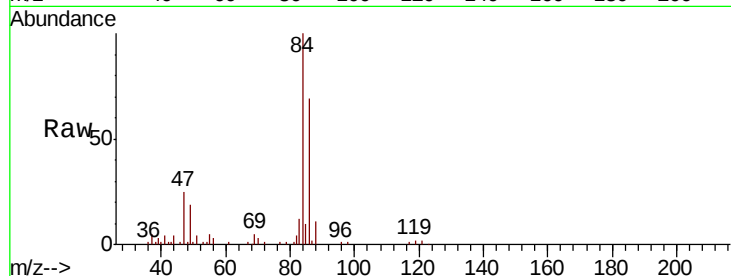




#25
Chloroform
Concen: 0.199 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VU035355.D
Acq: 22 Oct 2019 11:07

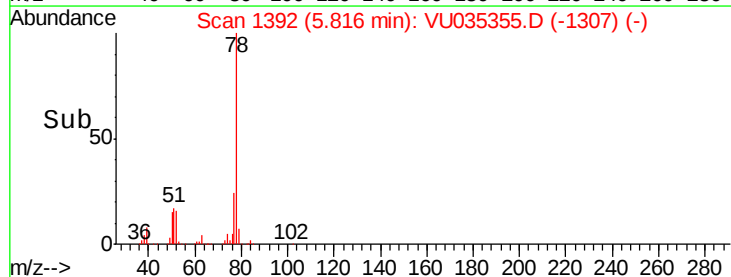
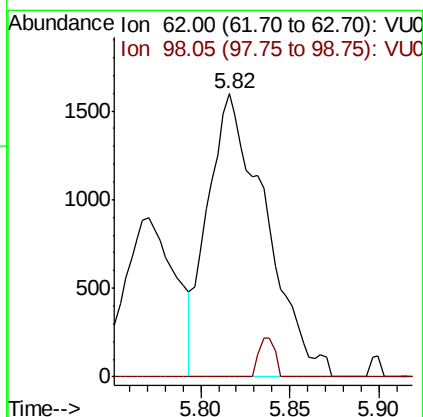
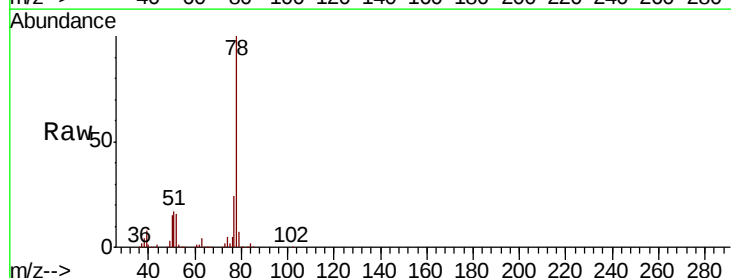
Instrument :
MSVOA_U
ClientSampled :

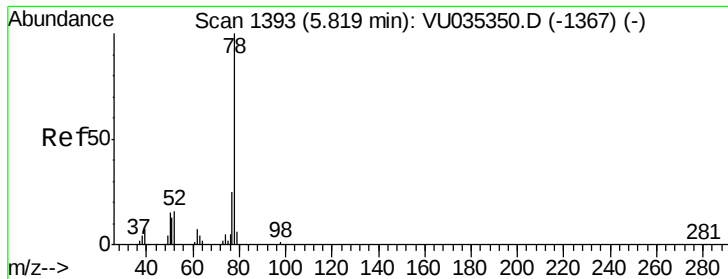
Tot Ion: 83 Resp: 8401
Ion Ratio Lower Upper
83 100
85 80.2 45.1 83.9



#27
1,2-Dichloroethane
Concen: 0.139 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. -0.03 min
Lab File: VU035355.D
Acq: 22 Oct 2019 11:07

Tgt Ion: 62 Resp: 3595
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.6#





#33

Benzene

Concen: 4.228 ug/L

RT: 5.82 min Scan# 1393

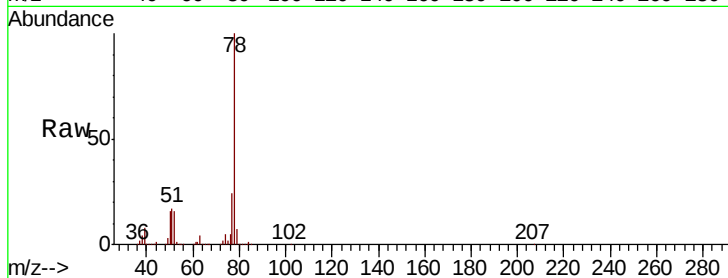
Delta R.T. -0.00 min

Lab File: VU035355.D

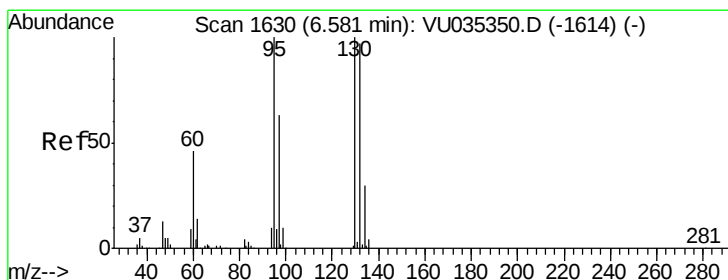
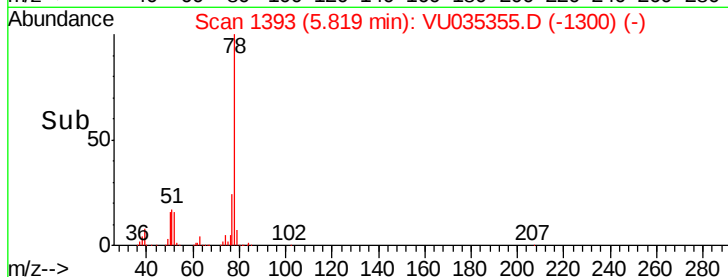
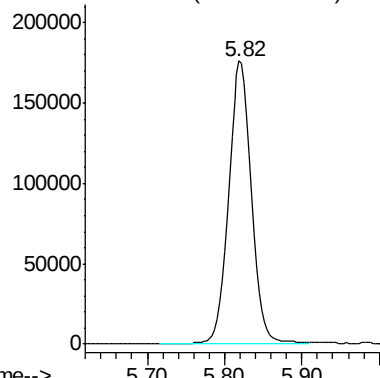
Acq: 22 Oct 2019 11:07

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 78 Resp: 365263



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 19.755 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU035355.D

Acq: 22 Oct 2019 11:07

Tgt Ion: 95 Resp: 458779

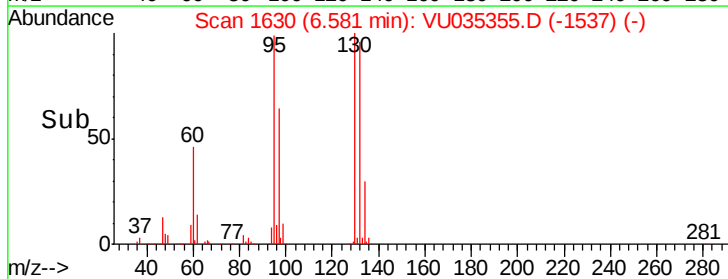
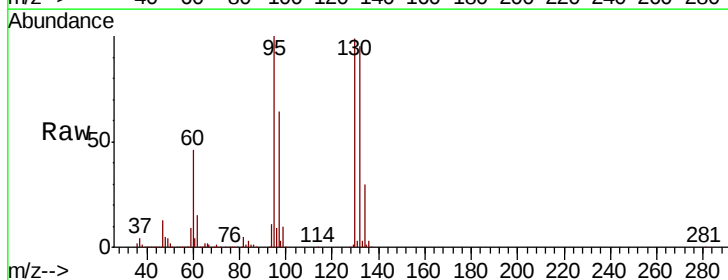
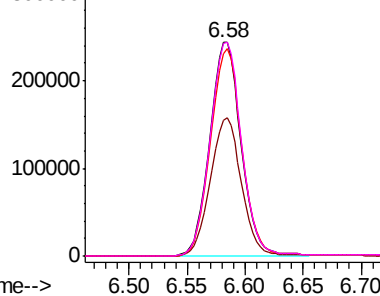
Ion	Ratio	Lower	Upper
95	100		
97	63.6	46.6	86.6
132	94.9	68.7	127.7
130	99.3	73.9	137.3

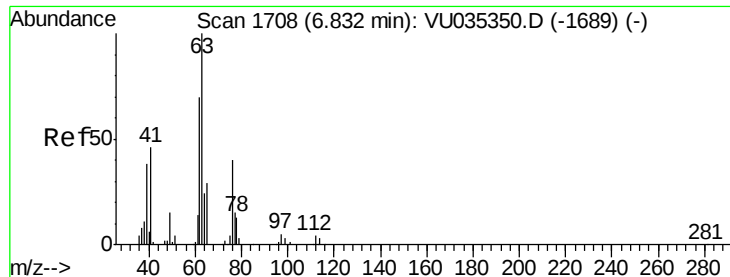
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V





#37

1,2-Dichloropropane

Concen: 0.545 ug/L

RT: 6.73 min Scan# 1677

Delta R.T. -0.10 min

Lab File: VU035355.D

Acq: 22 Oct 2019 11:07

Instrument :

MSVOA_U

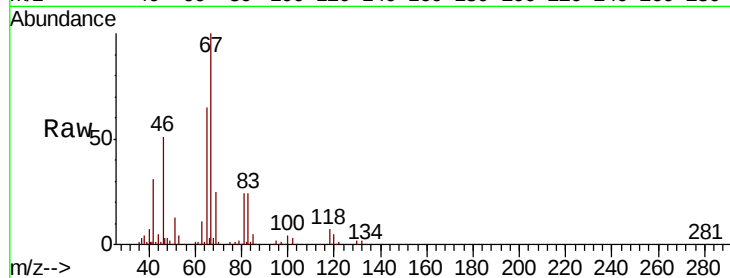
ClientSampleId :

Tot Ion: 63 Resp: 11949

Ion Ratio Lower Upper

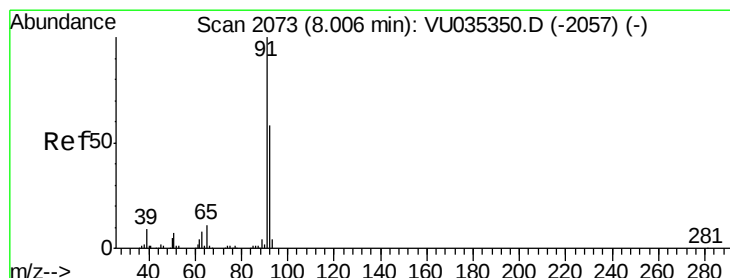
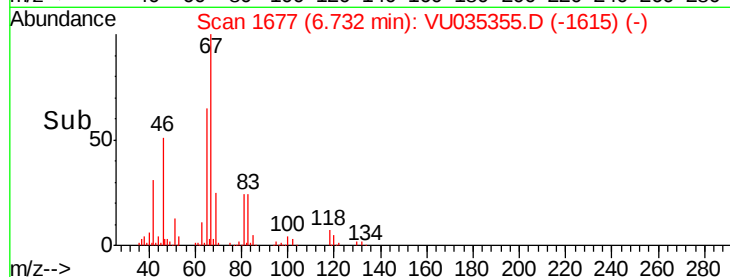
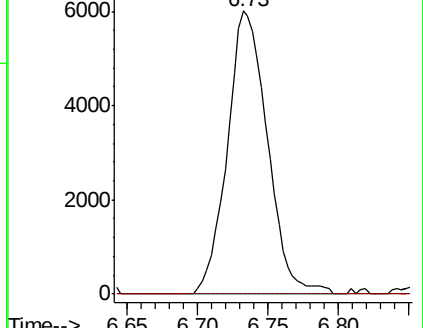
63 100

112 0.0 3.7 5.5#



Abundance Ion 63.10 (62.80 to 63.80): VU035355.D (-1689) (-)

Ion 112.10 (111.80 to 112.80): VU035355.D (-1689) (-)



#42

Toluene

Concen: 4.224 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. -0.00 min

Lab File: VU035355.D

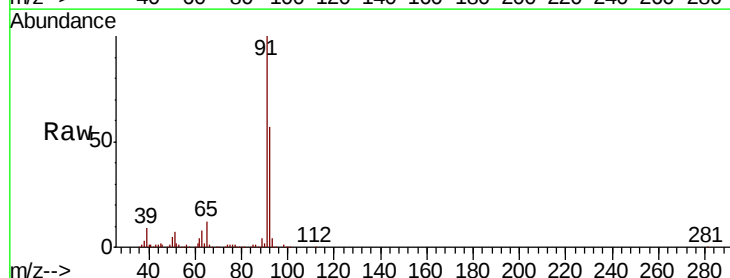
Acq: 22 Oct 2019 11:07

Tgt Ion: 91 Resp: 402829

Ion Ratio Lower Upper

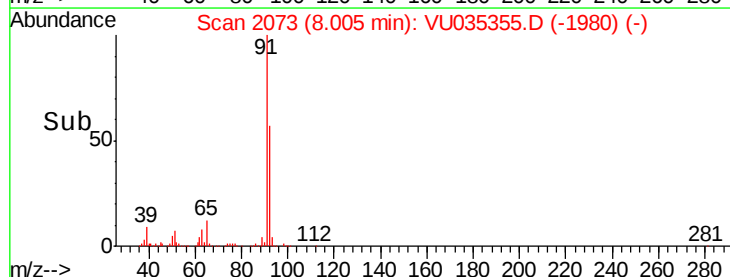
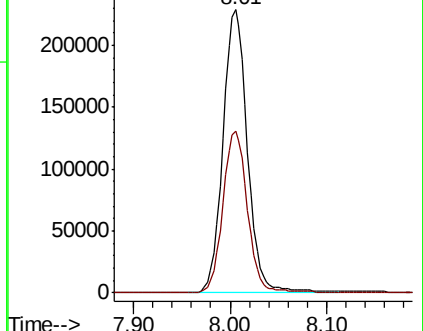
91 100

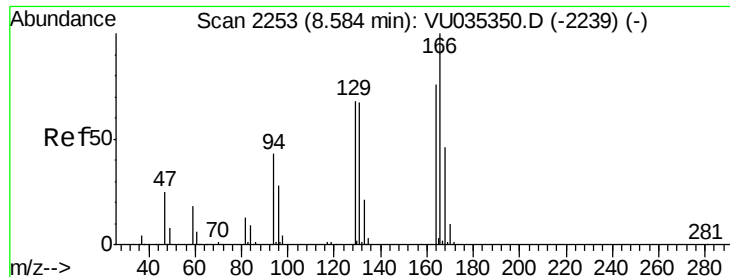
92 57.0 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VU035355.D (-1980) (-)

Ion 92.15 (91.85 to 92.85): VU035355.D (-1980) (-)





#47

Tetrachloroethene

Concen: 0.793 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU035355.D

Acq: 22 Oct 2019 11:07

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:164 Resp: 15352

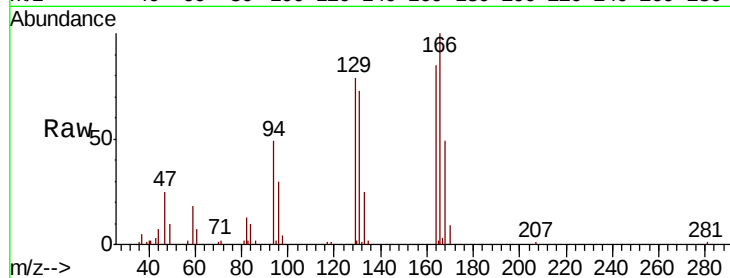
Ion Ratio Lower Upper

164 100

129 92.9 65.2 121.0

131 86.0 62.9 116.9

166 117.3 91.5 169.9

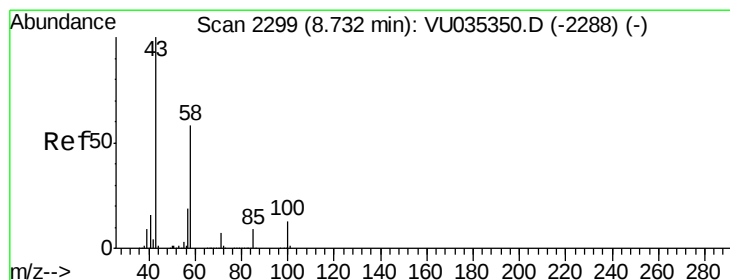
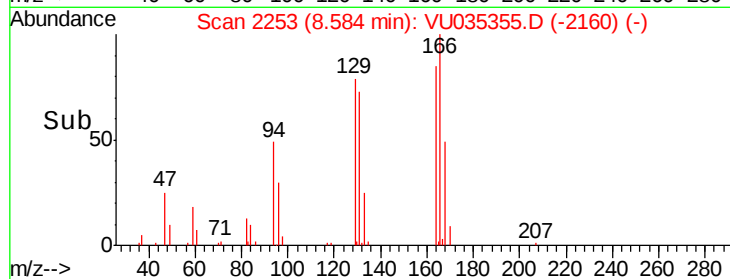
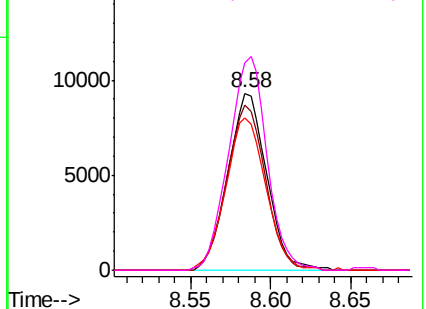


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 1.329 ug/L

RT: 8.73 min Scan# 2299

Delta R.T. -0.00 min

Lab File: VU035355.D

Acq: 22 Oct 2019 11:07

Tgt Ion: 43 Resp: 13793

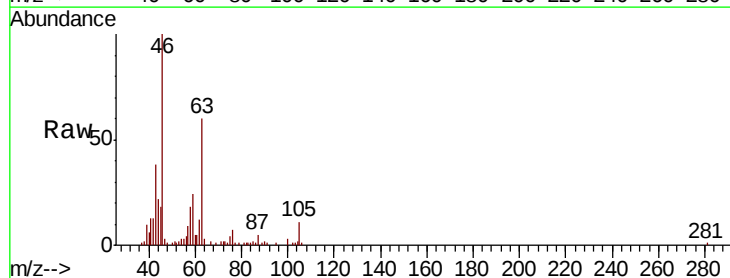
Ion Ratio Lower Upper

43 100

58 56.9 45.1 67.7

57 13.9 16.0 24.0#

100 8.4 10.4 15.6#

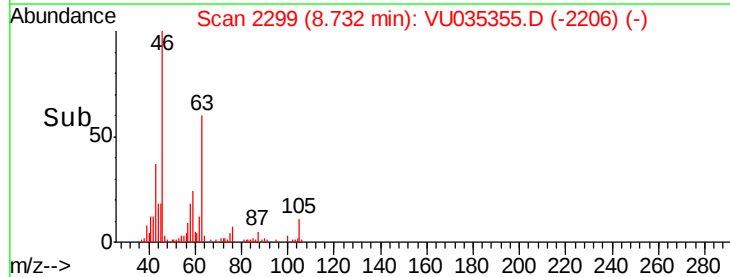
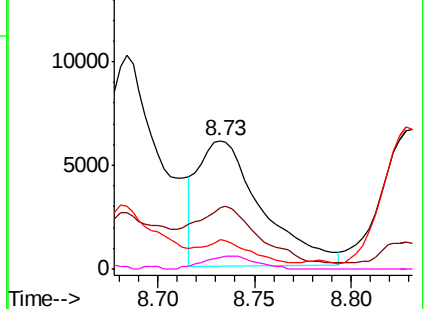


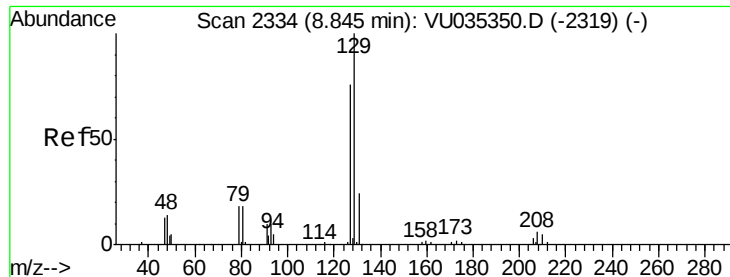
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 0.696 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.26 min

Lab File: VU035355.D

Acq: 22 Oct 2019 11:07

Instrument :

MSVOA_U

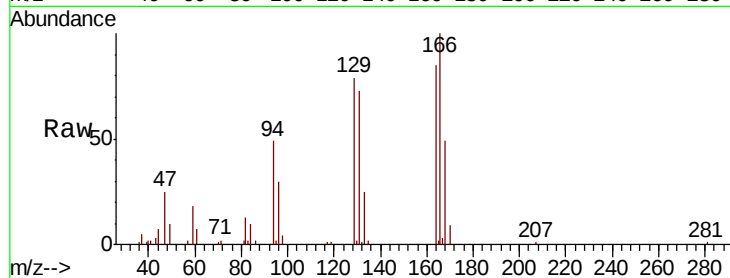
ClientSampled :

Tot Ion:129 Resp: 14364

Ion Ratio Lower Upper

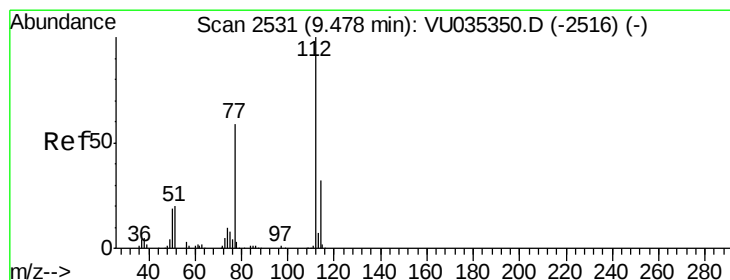
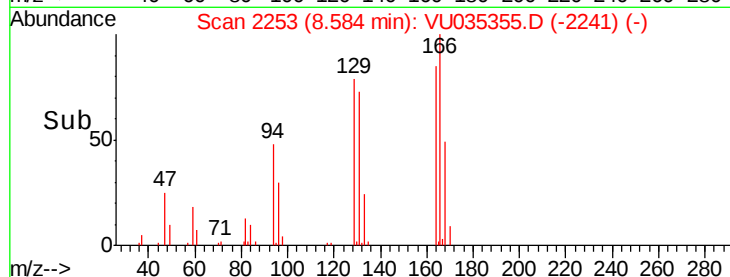
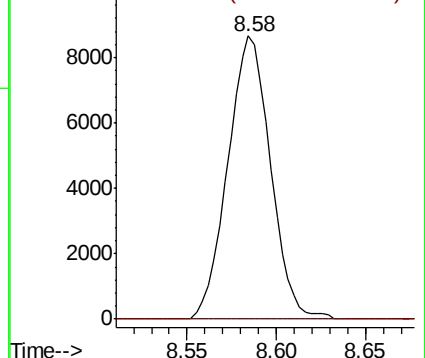
129 100

127 0.0 53.8 99.8#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#51

Chlorobenzene

Concen: 4.329 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU035355.D

Acq: 22 Oct 2019 11:07

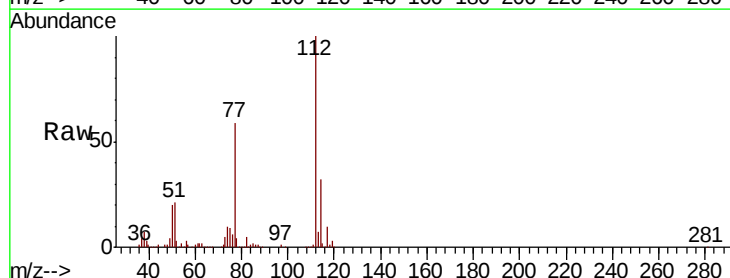
Tgt Ion:112 Resp: 266516

Ion Ratio Lower Upper

112 100

114 31.9 23.0 42.8

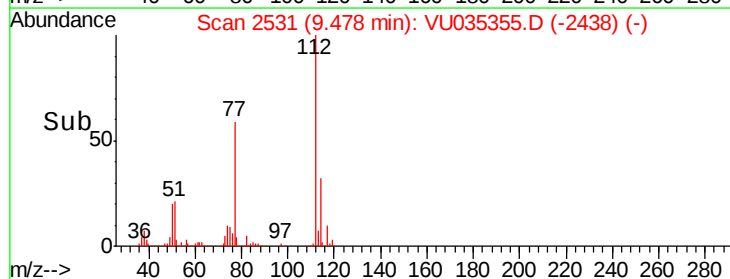
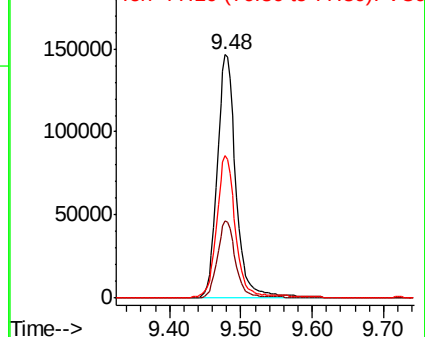
77 58.7 47.5 71.3

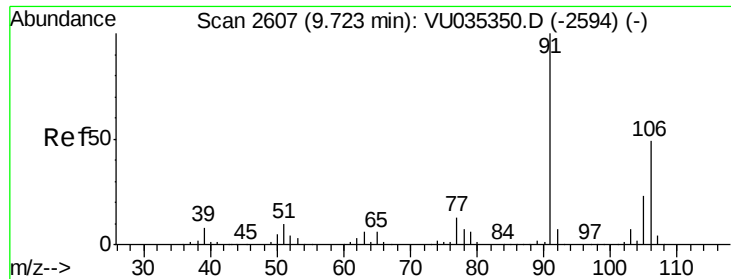


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0





#53

m,p-Xylene

Concen: 0.112 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035355.D

Acq: 22 Oct 2019 11:07

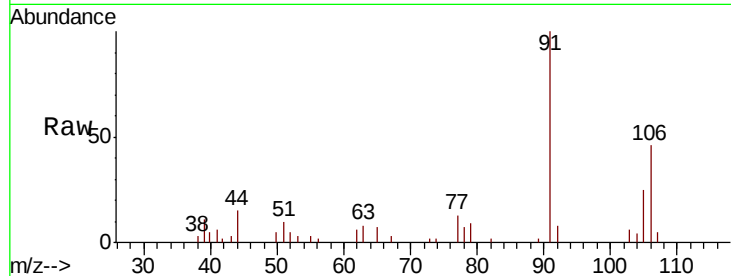
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 4583

Ion Ratio Lower Upper

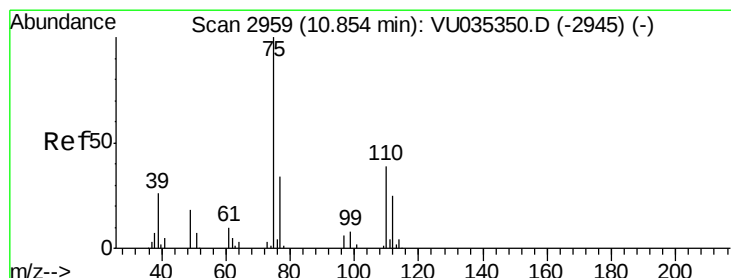
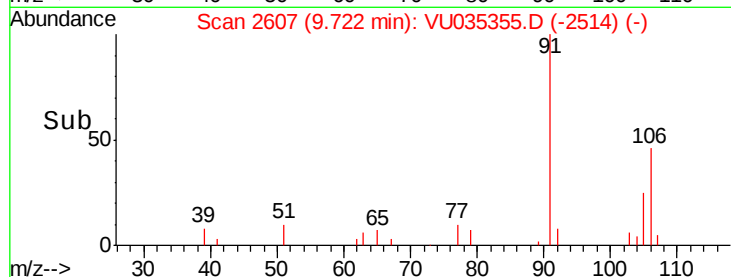
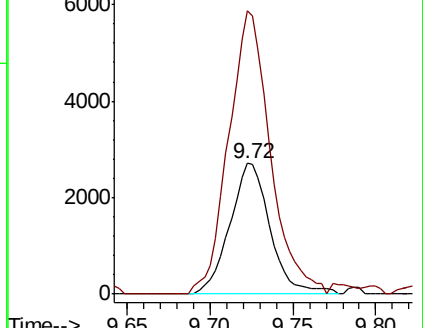
106 100

91 216.6 142.0 263.6



Abundance Ion 106.15 (105.85 to 106.85): VU035355.D (-2594) (-)

Ion 91.15 (90.85 to 91.85): VU035355.D (-2594) (-)



#59

1,2,3-Trichloropropane

Concen: 0.988 ug/L

RT: 11.84 min Scan# 3267

Delta R.T. 0.99 min

Lab File: VU035355.D

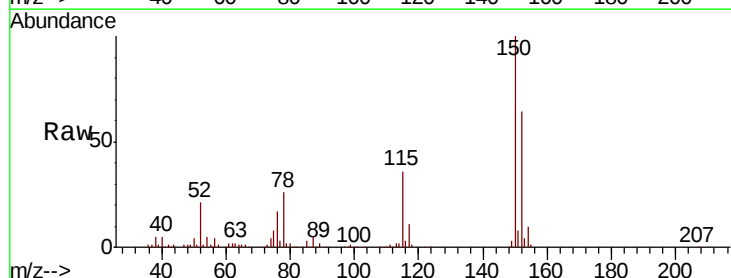
Acq: 22 Oct 2019 11:07

Tgt Ion: 75 Resp: 15100

Ion Ratio Lower Upper

75 100

77 37.1 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU035355.D (-2945) (-)

Ion 77.00 (76.70 to 77.70): VU035355.D (-2945) (-)

