

Data File : VU035313.D
Acq On : 19 Oct 2019 13:04
Operator : JC/SP
Sample : K5344-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BF6K9

Quant Time: Oct 21 05:47:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM101919WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Oct 21 05:38:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	669913	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	647843	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	275895	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	282619	49.04	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	98.08%
7) Chloroethane-d5	1.93	69	238541	49.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.64%
11) 1,1-Dichloroethene-d2	2.59	63	360424	37.90	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.80%
21) 2-Butanone-d5	4.69	46	410207	107.38	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.38%
24) Chloroform-d	5.11	84	441530	47.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.82%
26) 1,2-Dichloroethane-d4	5.75	65	301696	49.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.84%
32) Benzene-d6	5.77	84	928489	49.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.40%
36) 1,2-Dichloropropane-d6	6.74	67	299252	50.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.24%
41) Toluene-d8	7.93	98	867167	49.14	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.28%
43) trans-1,3-Dichloropropene-	8.21	79	145313	46.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.98%
47) 2-Hexanone-d5	8.68	63	286651	108.06	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.06%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	423556	47.73	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.46%
64) 1,2-Dichlorobenzene-d4	12.22	152	301702	47.17	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.34%

Target Compounds

					Qvalue
5) Vinyl chloride	1.62	62	9597	1.670 ug/L #	23
12) 1,1-Dichloroethene	2.60	96	3386	0.824 ug/L #	1
13) Acetone	2.67	43	67803	19.908 ug/L	99
16) Methylene chloride	3.09	84	16122	3.310 ug/L	98
19) 1,1-Dichloroethane	3.92	63	33808	4.034 ug/L	95
20) cis-1,2-Dichloroethene	4.72	96	6594	1.320 ug/L	99
22) 2-Butanone	4.78	43	21078	5.115 ug/L	92
25) Chloroform	5.14	83	9942	1.149 ug/L	83
29) Cyclohexane	5.43	56	12547	1.732 ug/L	92
33) Benzene	5.82	78	338400	18.475 ug/L	100
34) Trichloroethene	6.58	95	16542	3.505 ug/L	94
35) Methylcyclohexane	6.80	83	16984	2.328 ug/L	90
40) 4-Methyl-2-pentanone	7.84	43	155770	22.229 ug/L	100
42) Toluene	8.01	91	2633084	131.329 ug/L	99
51) Chlorobenzene	9.48	112	28227	2.159 ug/L	92
52) Ethylbenzene	9.60	91	600672	26.879 ug/L	98
53) m,p-Xylene	9.72	106	509132	61.806 ug/L	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101919\
Quantitation Report (Not Reviewed)

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QLast Update : Mon Oct 21 05:38:49 2019
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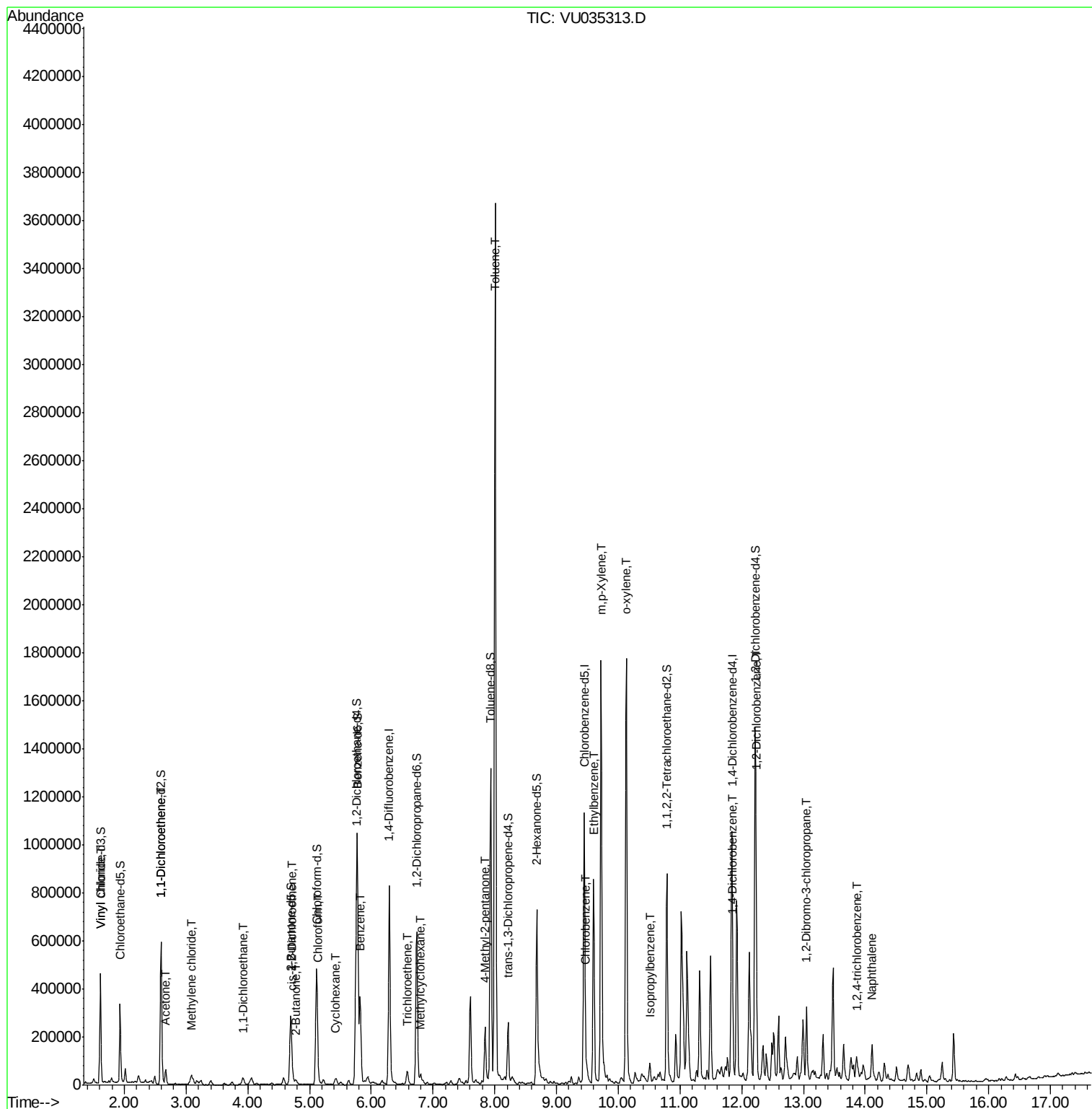
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	10.13	106	471052	57.651	ug/L	99
56) Isopropylbenzene	10.51	105	52809	2.496	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	12582	1.402	ug/L	90
65) 1,2-Dichlorobenzene	12.24	146	112789	12.604	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.05	75	1589	1.123	ug/L #	1
68) 1,2,4-trichlorobenzene	13.86	180	3366	1.018	ug/L #	54
69) Naphthalene	14.11	128	119684	13.150	ug/L	98

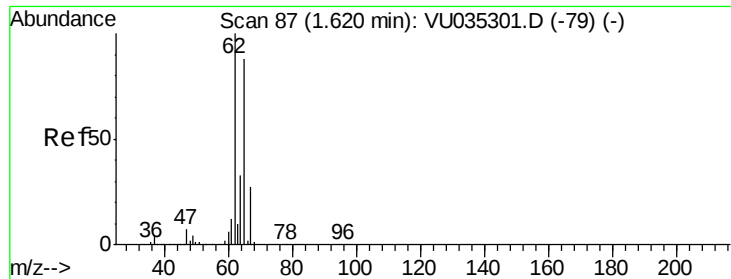
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.670 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035313.D

Acq: 19 Oct 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

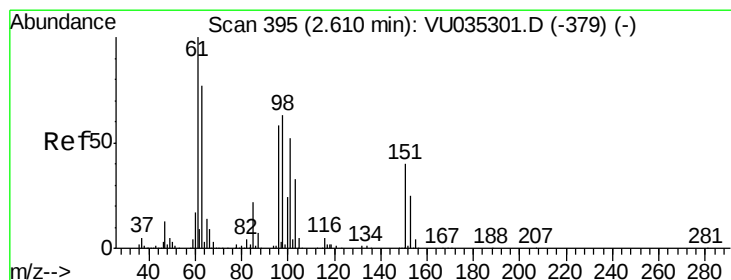
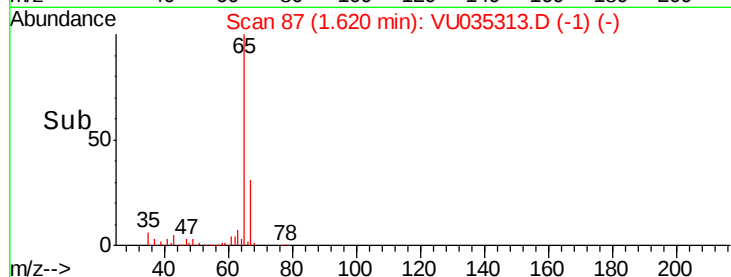
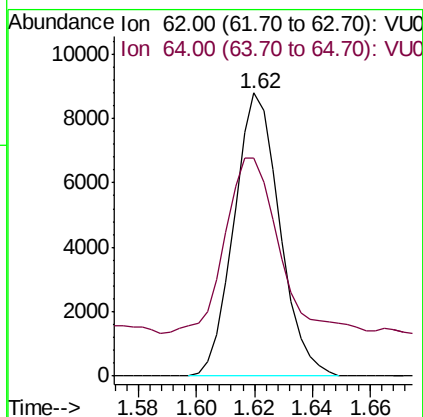
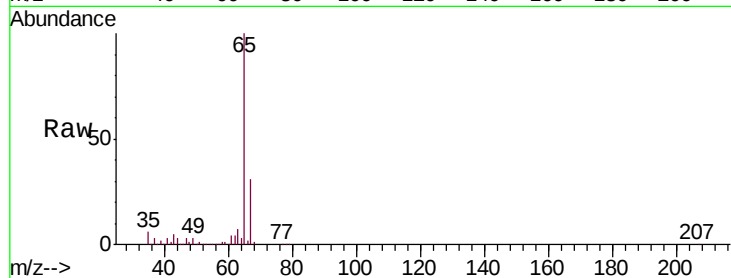
BF6K9

Tgt Ion: 62 Resp: 9597

Ion Ratio Lower Upper

62 100

64 77.2 23.4 43.4#



#12

1,1-Dichloroethene

Concen: 0.824 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.01 min

Lab File: VU035313.D

Acq: 19 Oct 2019 13:04

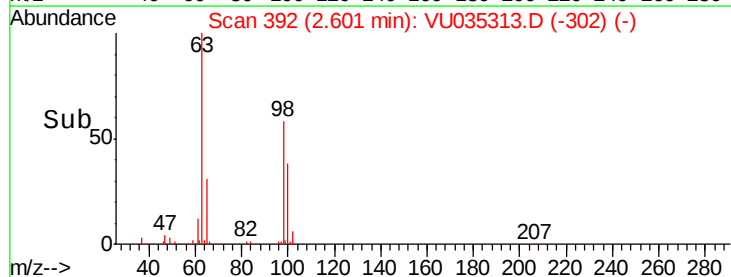
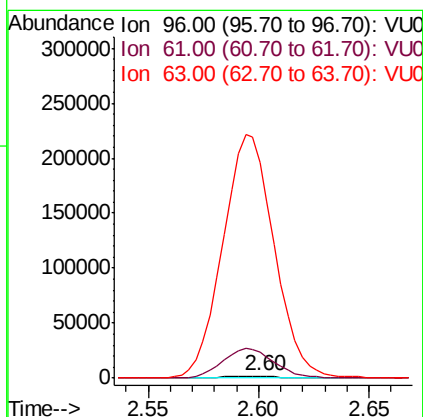
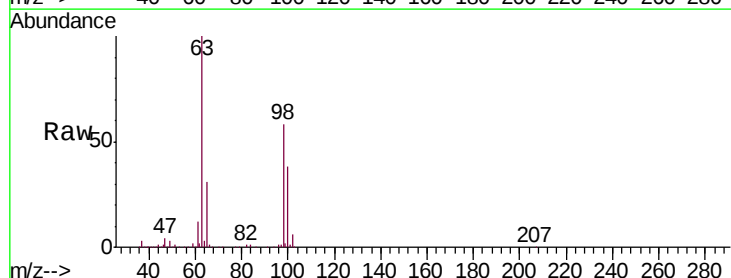
Tgt Ion: 96 Resp: 3386

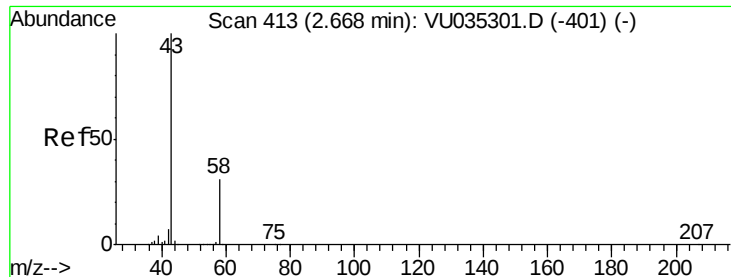
Ion Ratio Lower Upper

96 100

61 1206.5 121.1 224.9#

63 10249.3 93.9 174.3#

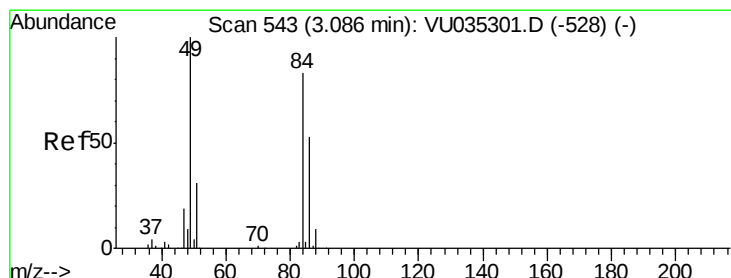
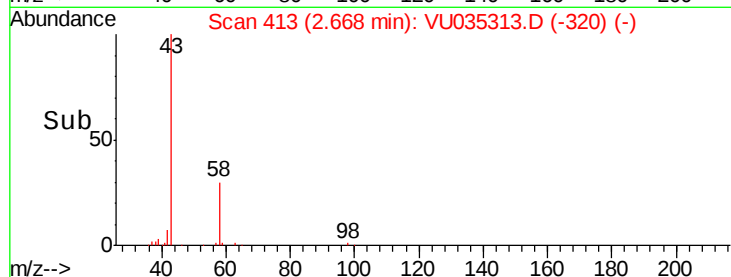
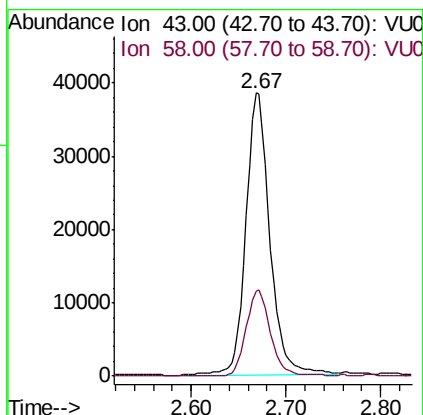
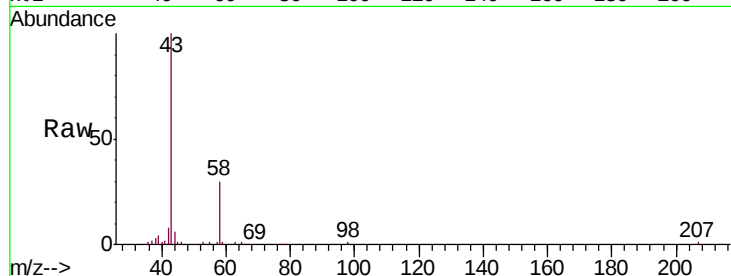




#13
Acetone
Concen: 19.908 ug/L
RT: 2.67 min Scan# 413
Delta R.T. -0.00 min
Lab File: VU035313.D
Acq: 19 Oct 2019 13:04

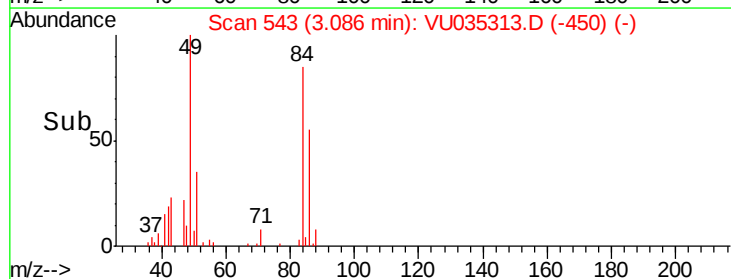
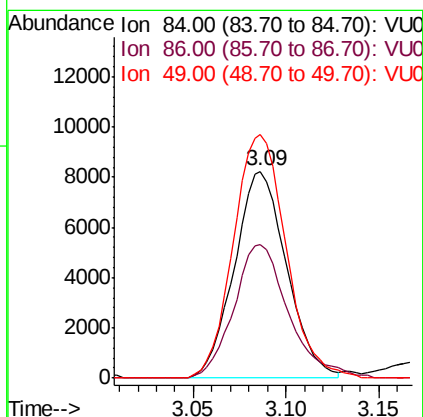
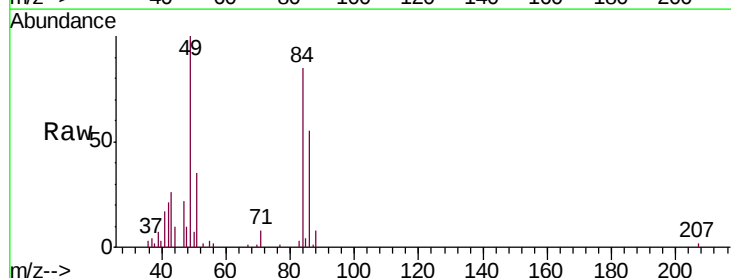
Instrument :
MSVOA_U
ClientSampleId :
BF6K9

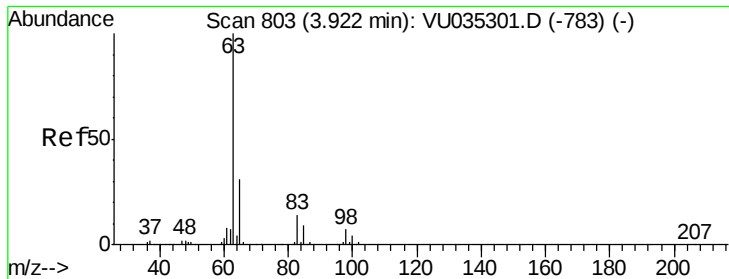
Tgt Ion: 43 Resp: 67803
Ion Ratio Lower Upper
43 100
58 30.7 0.0 62.8



#16
Methylene chloride
Concen: 3.310 ug/L
RT: 3.09 min Scan# 543
Delta R.T. -0.00 min
Lab File: VU035313.D
Acq: 19 Oct 2019 13:04

Tgt Ion: 84 Resp: 16122
Ion Ratio Lower Upper
84 100
86 64.7 44.4 82.5
49 117.8 84.0 156.0

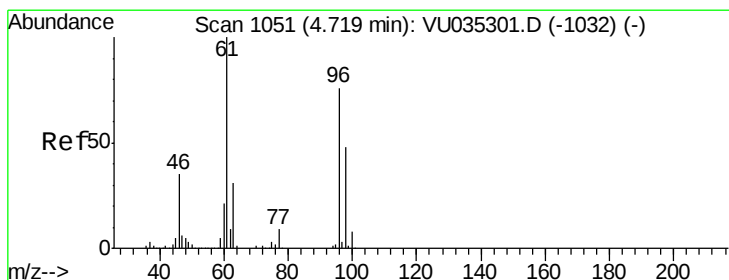
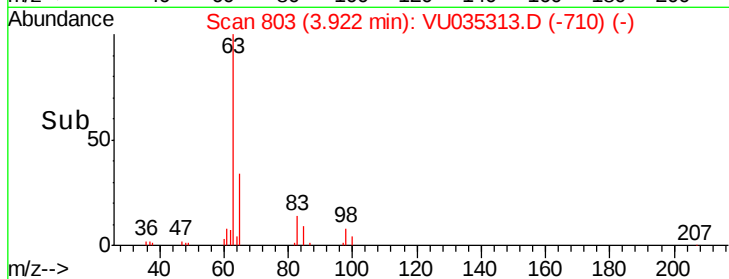
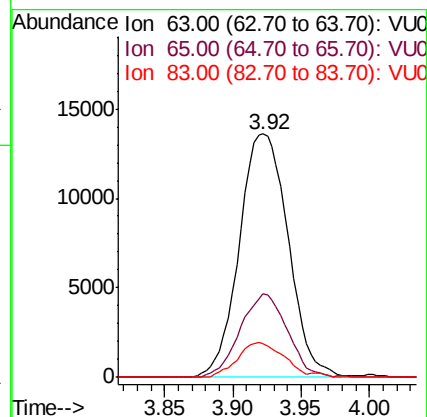
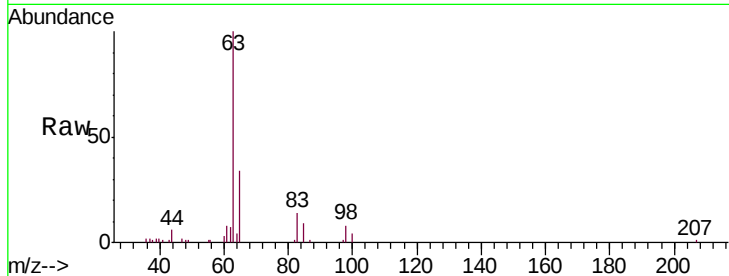




#19
 1,1-Dichloroethane
 Concen: 4.034 ug/L
 RT: 3.92 min Scan# 803
 Delta R.T. -0.00 min
 Lab File: VU035313.D
 Acq: 19 Oct 2019 13:04

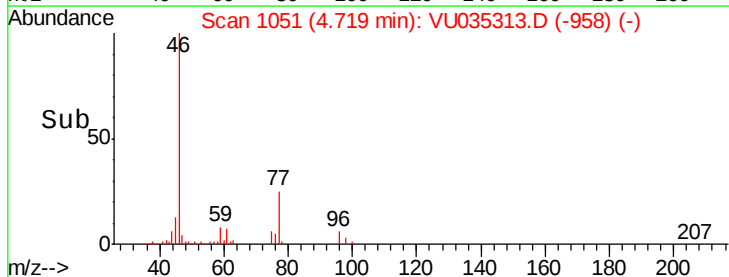
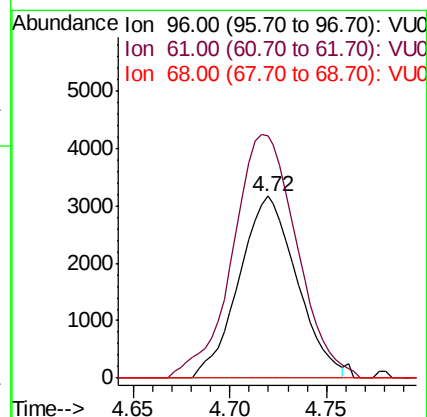
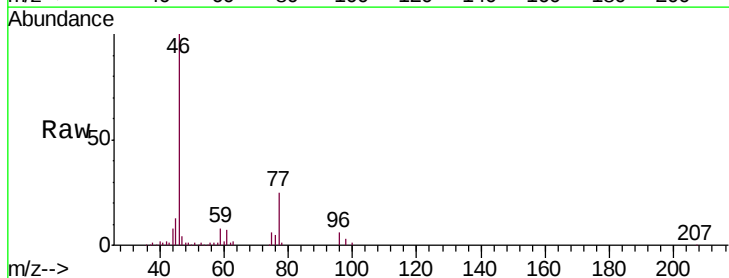
Instrument :
 MSVOA_U
 ClientSampleId :
 BF6K9

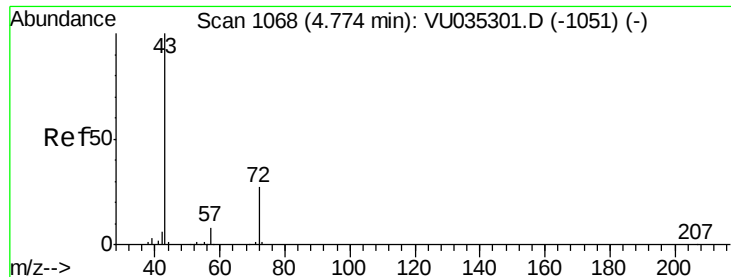
Tgt Ion	Ratio	Lower	Upper
63	100		
65	34.3	21.6	40.0
83	13.7	9.4	17.6



#20
 cis-1,2-Dichloroethene
 Concen: 1.320 ug/L
 RT: 4.72 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: VU035313.D
 Acq: 19 Oct 2019 13:04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	133.2	92.7	172.3
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 5.115 ug/L

RT: 4.78 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU035313.D

Acq: 19 Oct 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

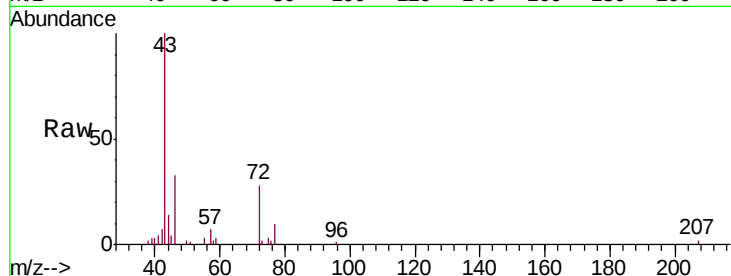
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Tgt Ion: 43 Resp: 21078

Ion Ratio Lower Upper

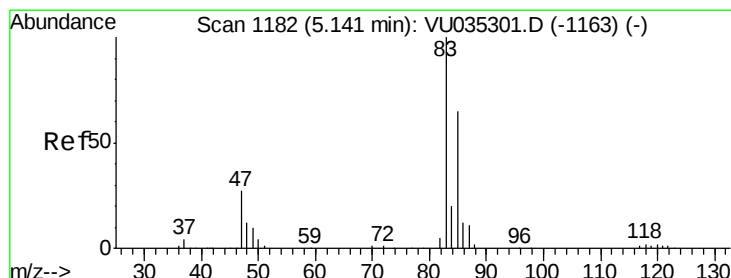
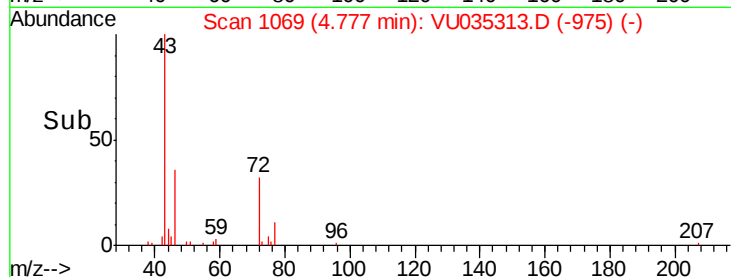
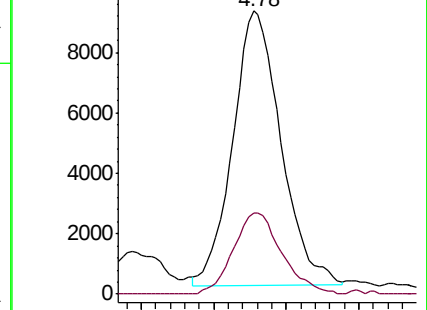
43 100

72 29.6 12.9 38.6



Abundance Ion 43.00 (42.70 to 43.70): VU035313.D (-1068) (-)

Ion 72.00 (71.70 to 72.70): VU035313.D (-1068) (-)



#25

Chloroform

Concen: 1.149 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VU035313.D

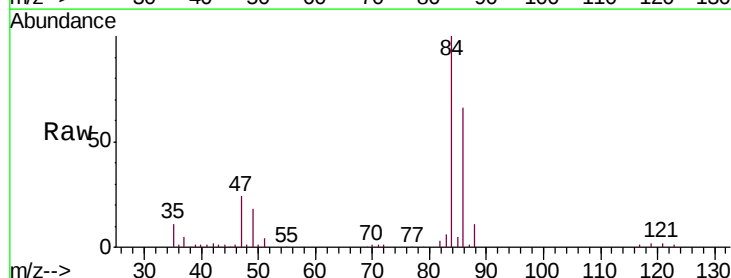
Acq: 19 Oct 2019 13:04

Tgt Ion: 83 Resp: 9942

Ion Ratio Lower Upper

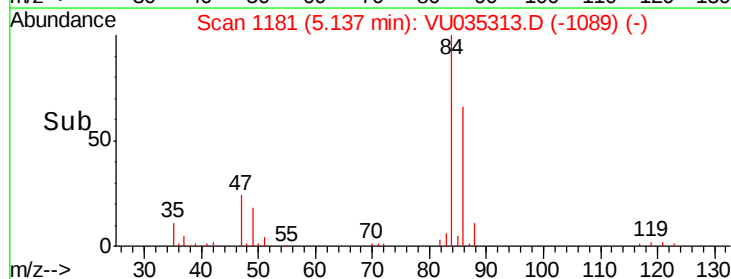
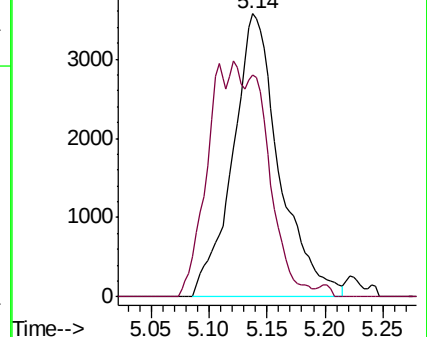
83 100

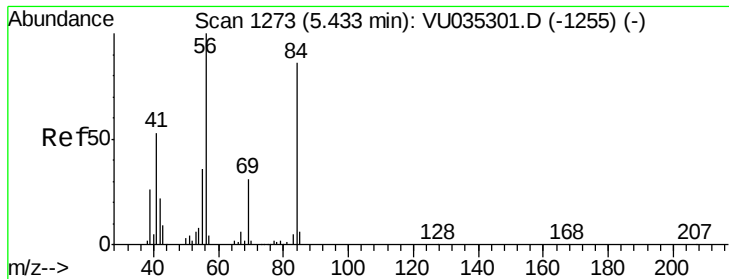
85 78.6 45.5 84.5



Abundance Ion 83.00 (82.70 to 83.70): VU035313.D (-1182) (-)

Ion 85.00 (84.70 to 85.70): VU035313.D (-1182) (-)

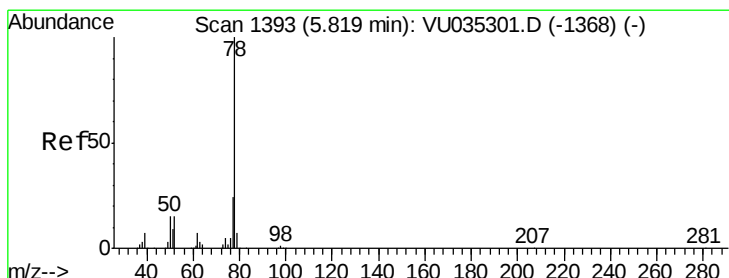
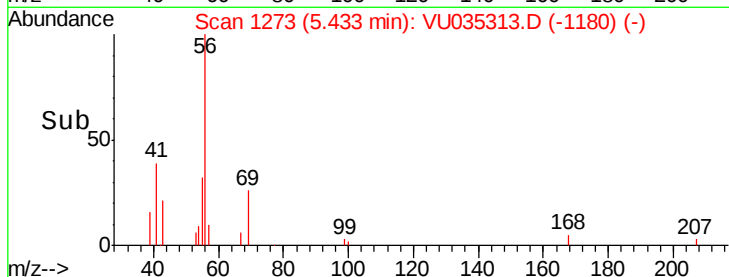
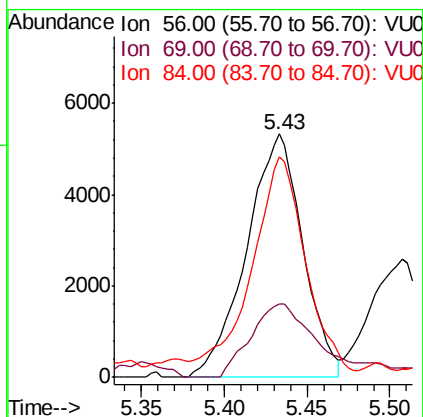
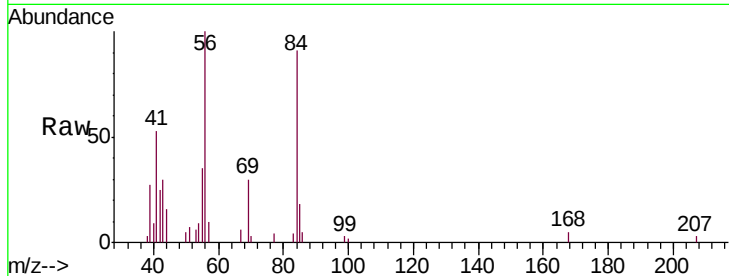




#29
Cyclohexane
Concen: 1.732 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. -0.00 min
Lab File: VU035313.D
Acq: 19 Oct 2019 13:04

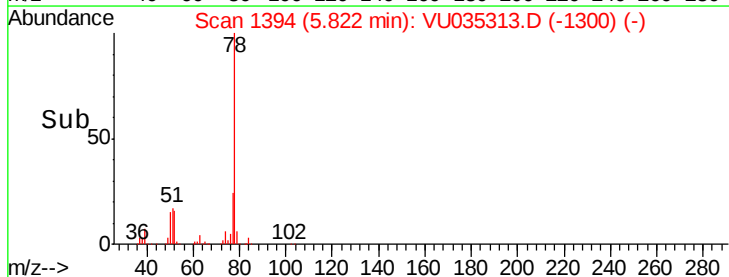
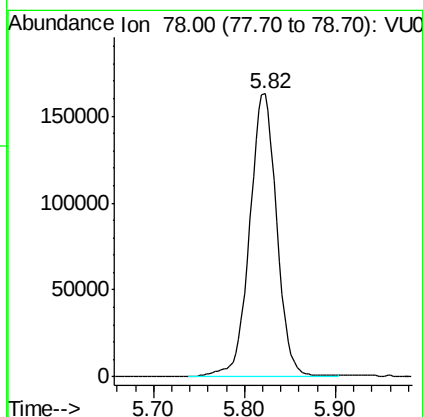
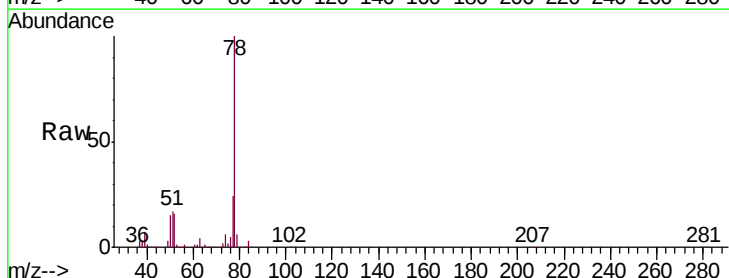
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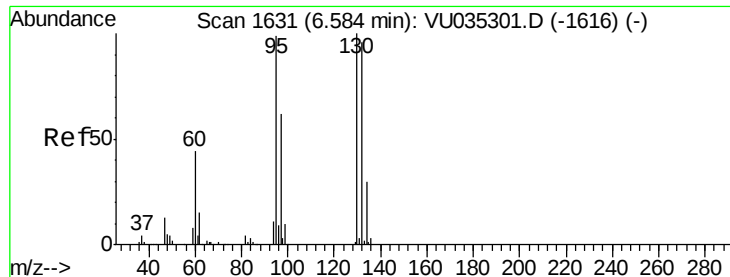
Tgt Ion: 56 Resp: 12547
Ion Ratio Lower Upper
56 100
69 34.7 24.2 36.4
84 81.4 71.1 106.7



#33
Benzene
Concen: 18.475 ug/L
RT: 5.82 min Scan# 1394
Delta R.T. 0.00 min
Lab File: VU035313.D
Acq: 19 Oct 2019 13:04

Tgt Ion: 78 Resp: 338400

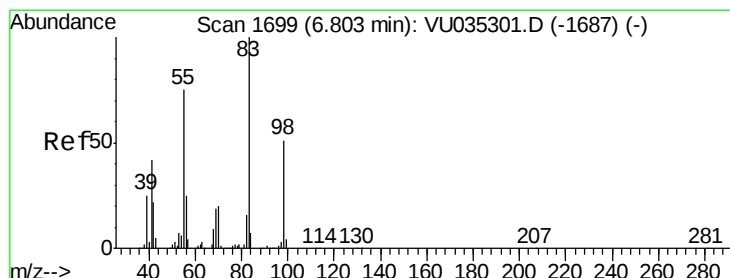
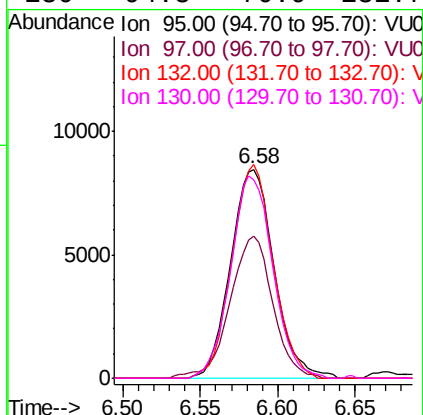
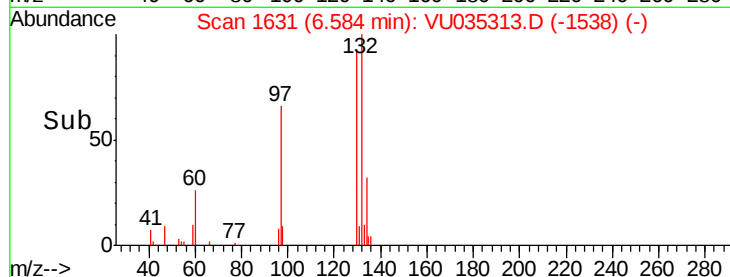
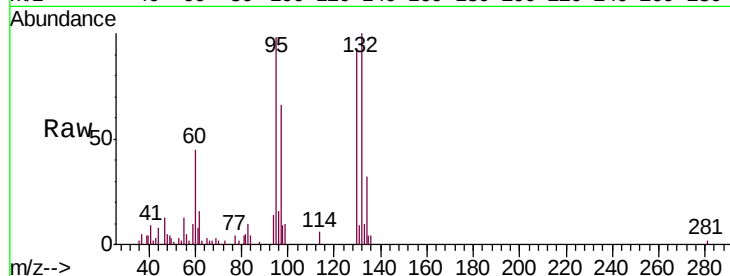




#34
 Trichloroethene
 Concen: 3.505 ug/L
 RT: 6.58 min Scan# 1631
 Delta R.T. -0.00 min
 Lab File: VU035313.D
 Acq: 19 Oct 2019 13:04

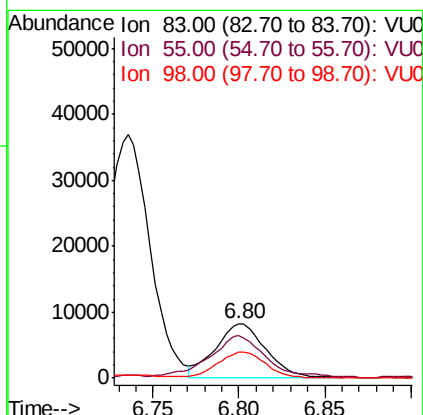
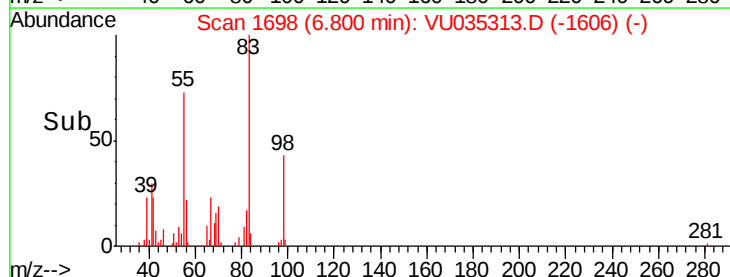
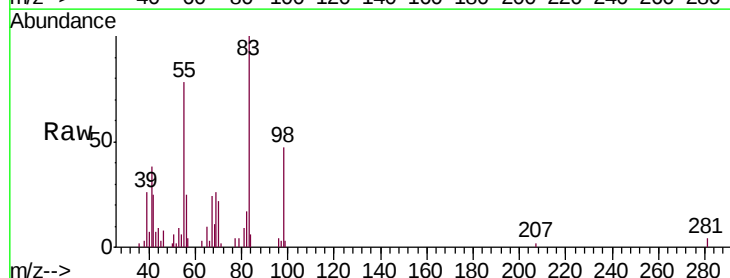
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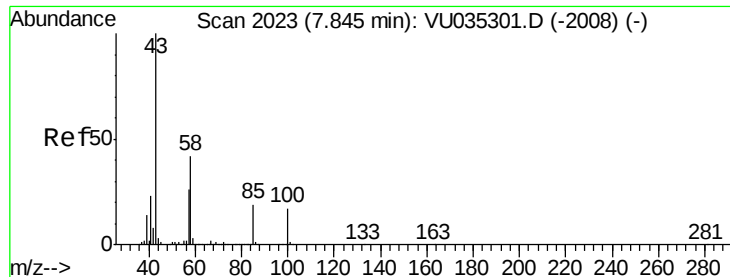
Tgt Ion: 95 Resp: 16542
 Ion Ratio Lower Upper
 95 100
 97 67.9 44.2 82.2
 132 102.3 67.8 125.8
 130 94.8 70.9 131.7



#35
 Methylcyclohexane
 Concen: 2.328 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VU035313.D
 Acq: 19 Oct 2019 13:04

Tgt Ion: 83 Resp: 16984
 Ion Ratio Lower Upper
 83 100
 55 85.5 59.5 89.3
 98 45.8 39.9 59.9

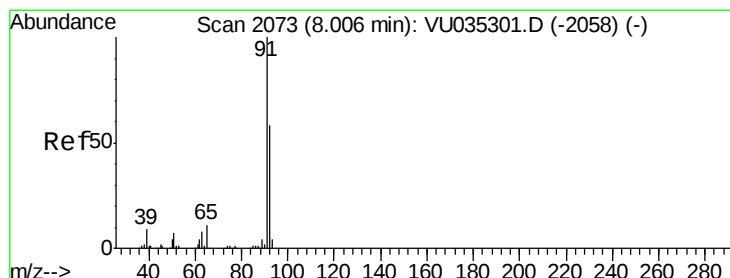
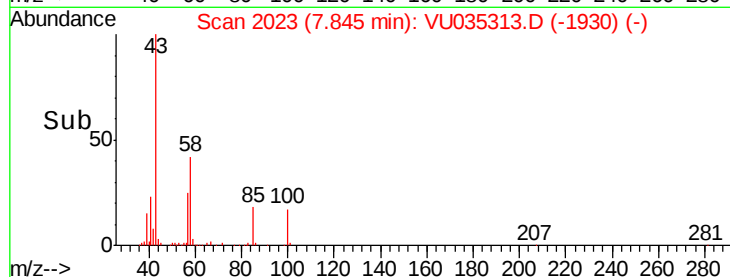
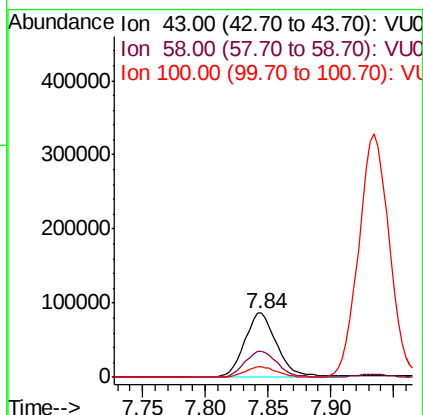
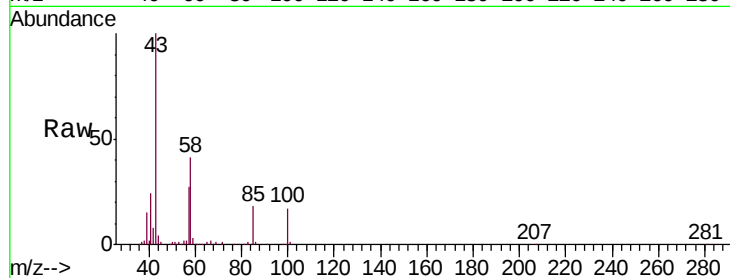




#40
 4-Methyl-2-pentanone
 Concen: 22.229 ug/L
 RT: 7.84 min Scan# 2023
 Delta R.T. -0.00 min
 Lab File: VU035313.D
 Acq: 19 Oct 2019 13:04

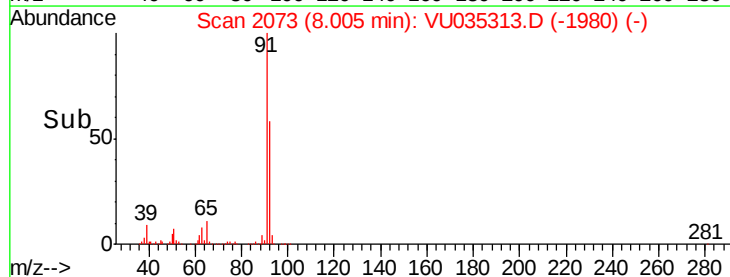
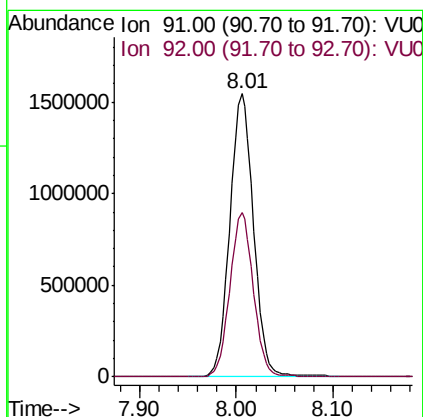
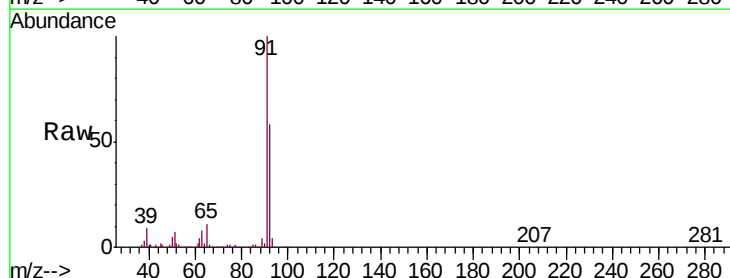
Instrument :
 MSVOA_U
 ClientSampleId :
 BF6K9

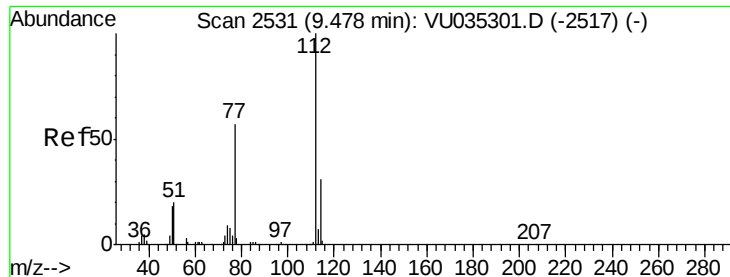
Tgt Ion: 43 Resp: 155770
 Ion Ratio Lower Upper
 43 100
 58 41.5 33.1 49.7
 100 16.5 13.2 19.8



#42
 Toluene
 Concen: 131.329 ug/L
 RT: 8.01 min Scan# 2073
 Delta R.T. -0.00 min
 Lab File: VU035313.D
 Acq: 19 Oct 2019 13:04

Tgt Ion: 91 Resp: 2633084
 Ion Ratio Lower Upper
 91 100
 92 58.2 40.3 74.9





#51

Chlorobenzene

Concen: 2.159 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU035313.D

Acq: 19 Oct 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

BF6K9

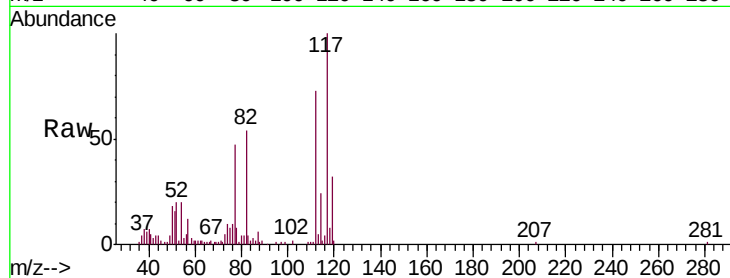
Tgt Ion: 112 Resp: 28227

Ion Ratio Lower Upper

112 100

114 33.4 21.9 40.7

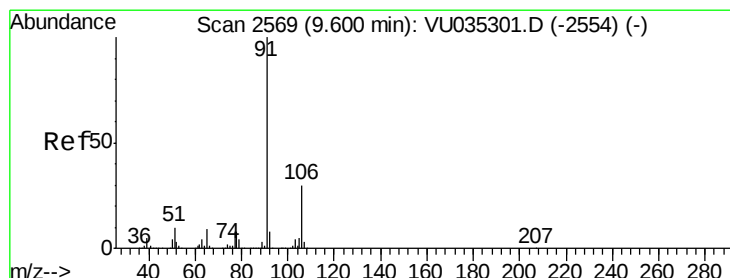
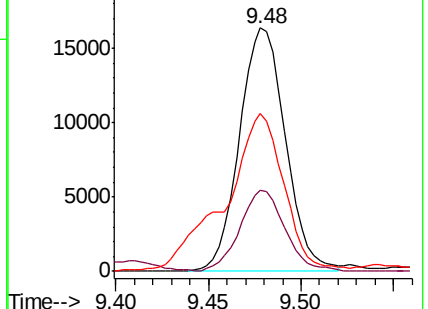
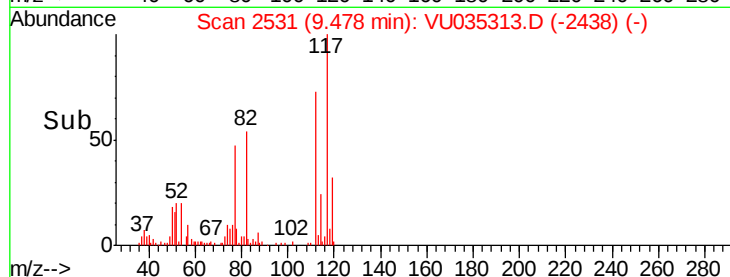
77 64.9 46.2 69.2



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 26.879 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU035313.D

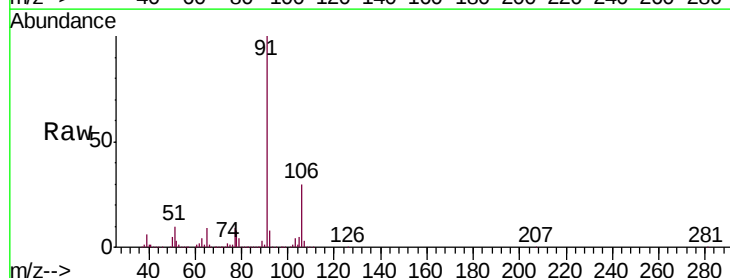
Acq: 19 Oct 2019 13:04

Tgt Ion: 91 Resp: 600672

Ion Ratio Lower Upper

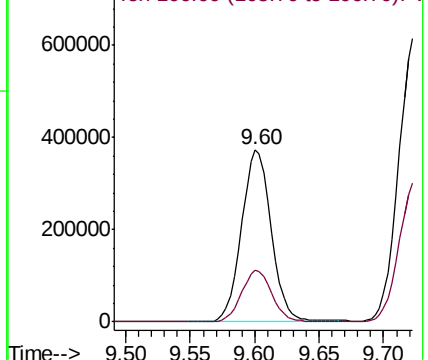
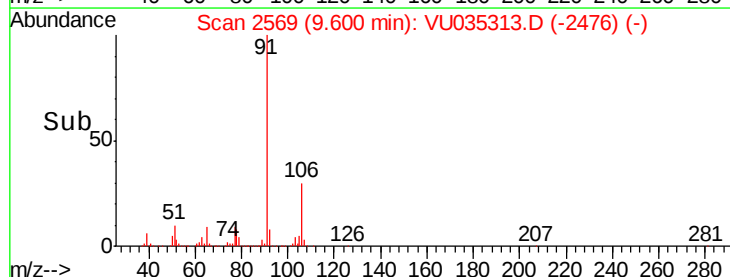
91 100

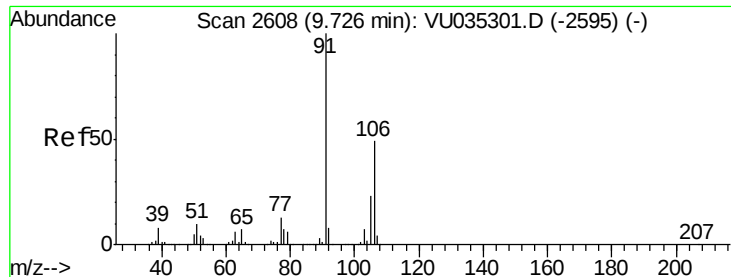
106 29.7 21.3 39.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 61.806 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035313.D

Acq: 19 Oct 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

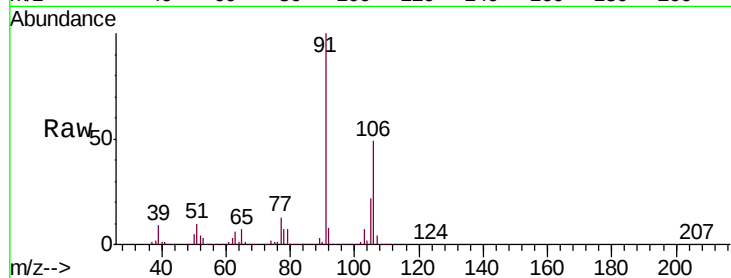
BF6K9

Tgt Ion:106 Resp: 509132

Ion Ratio Lower Upper

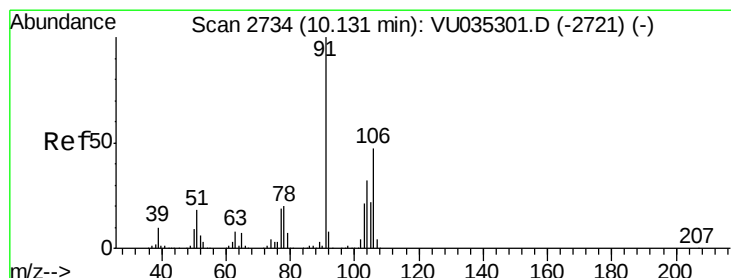
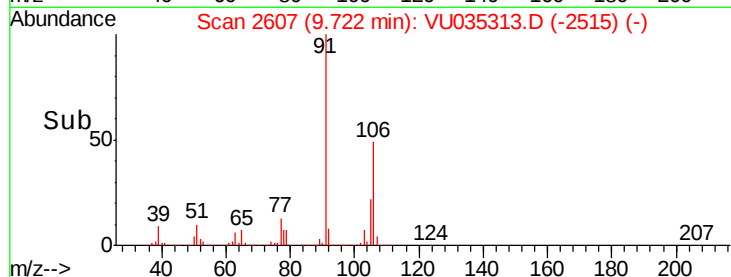
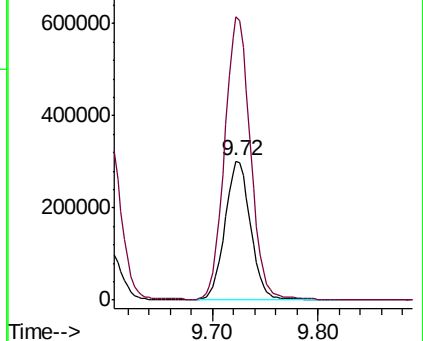
106 100

91 203.8 141.5 262.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 57.651 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU035313.D

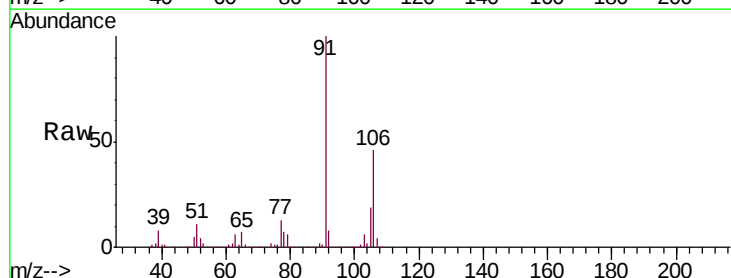
Acq: 19 Oct 2019 13:04

Tgt Ion:106 Resp: 471052

Ion Ratio Lower Upper

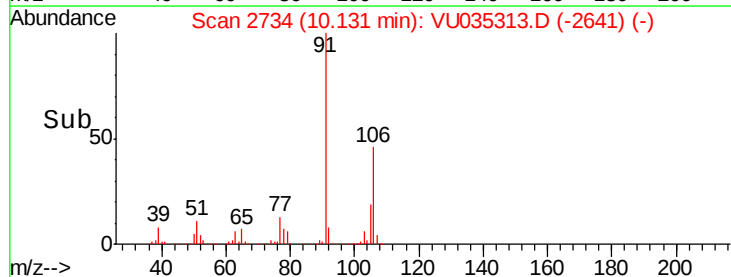
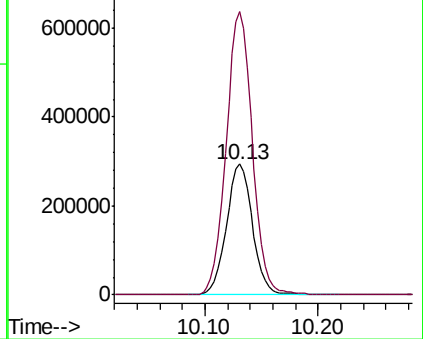
106 100

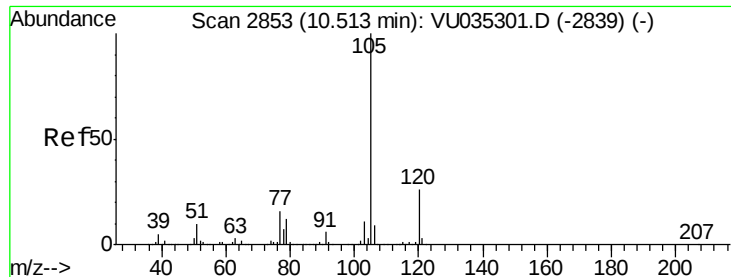
91 216.8 150.6 279.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

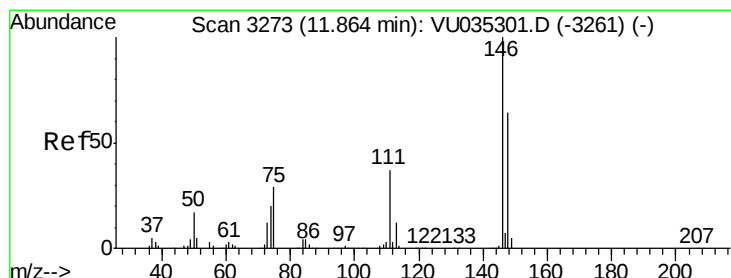
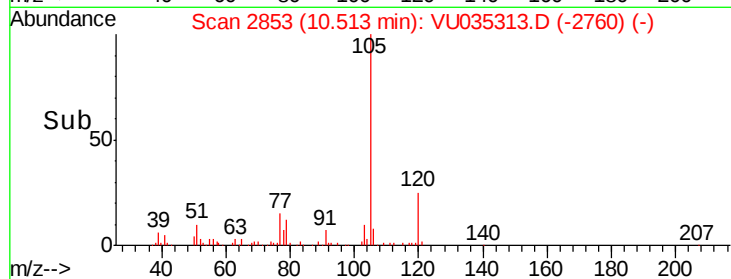
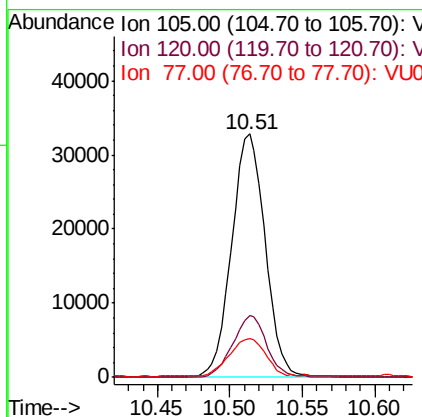
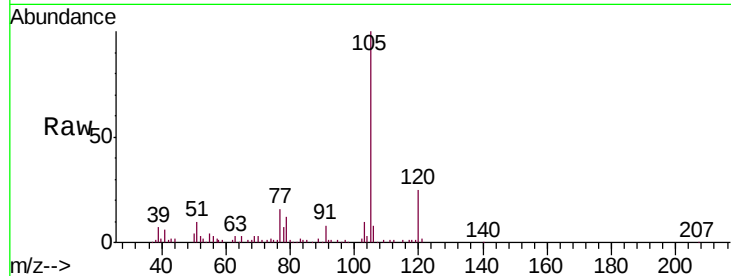




#56
Isopropylbenzene
Concen: 2.496 ug/L
RT: 10.51 min Scan# 2853
Delta R.T. -0.00 min
Lab File: VU035313.D
Acq: 19 Oct 2019 13:04

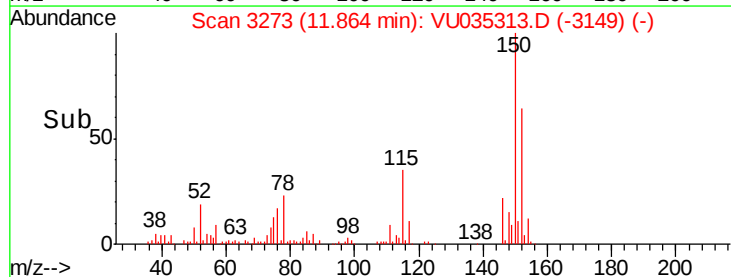
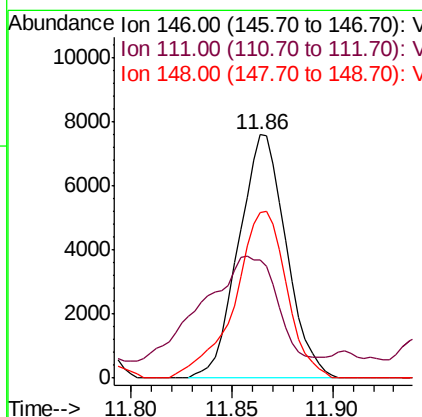
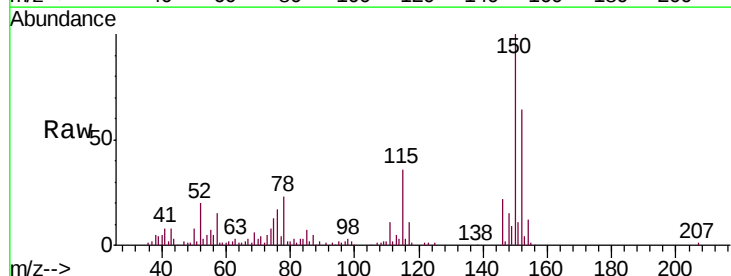
Instrument :
MSVOA_U
ClientSampleId :
BF6K9

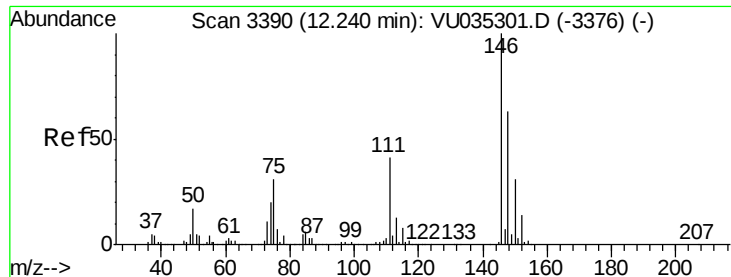
Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	21.1	31.7
77	16.8	12.7	19.1



#63
1,4-Dichlorobenzene
Concen: 1.402 ug/L
RT: 11.86 min Scan# 3273
Delta R.T. -0.00 min
Lab File: VU035313.D
Acq: 19 Oct 2019 13:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.5	26.2	48.8
148	68.0	44.5	82.7





#65

1,2-Dichlorobenzene

Concen: 12.604 ug/L

RT: 12.24 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VU035313.D

Acq: 19 Oct 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

BF6K9

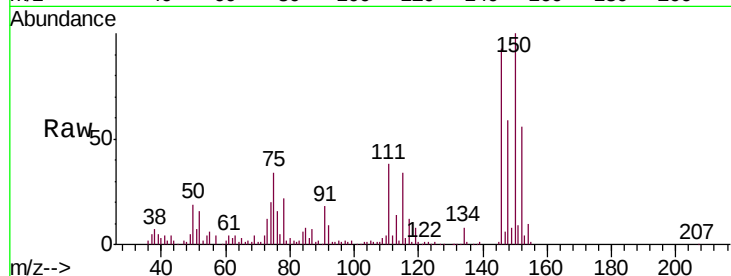
Tgt Ion:146 Resp: 112789

Ion Ratio Lower Upper

146 100

111 40.4 32.8 49.2

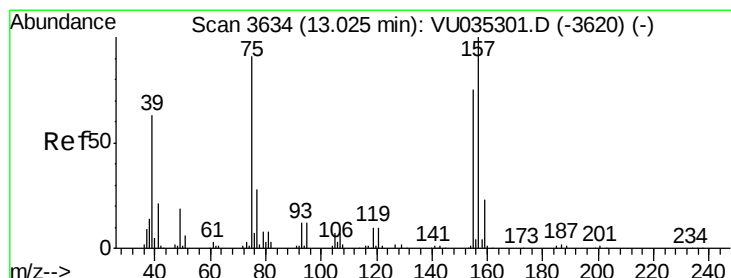
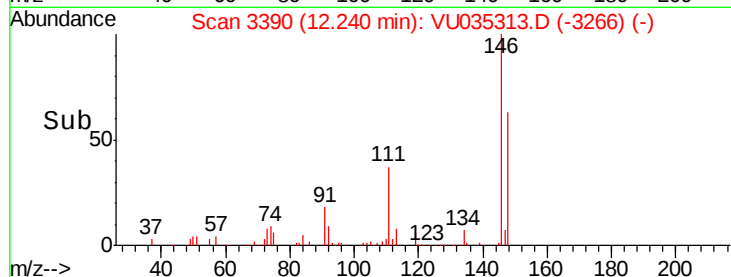
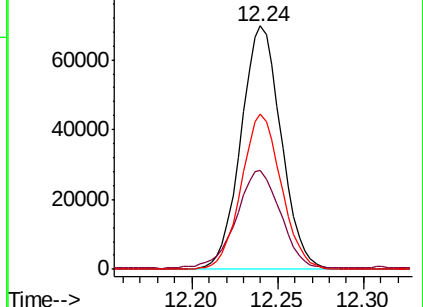
148 63.7 50.2 75.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 1.123 ug/L

RT: 13.05 min Scan# 3642

Delta R.T. 0.03 min

Lab File: VU035313.D

Acq: 19 Oct 2019 13:04

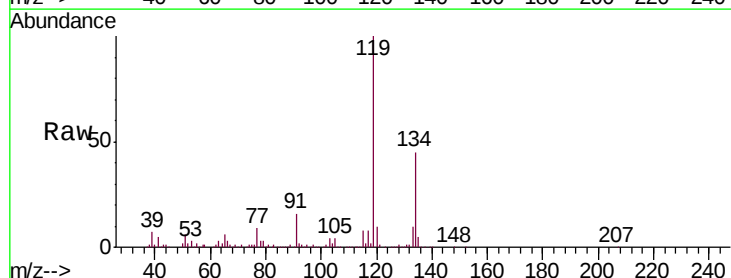
Tgt Ion: 75 Resp: 1589

Ion Ratio Lower Upper

75 100

155 0.0 66.2 99.2#

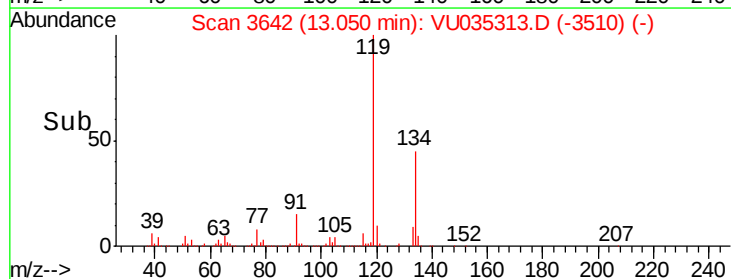
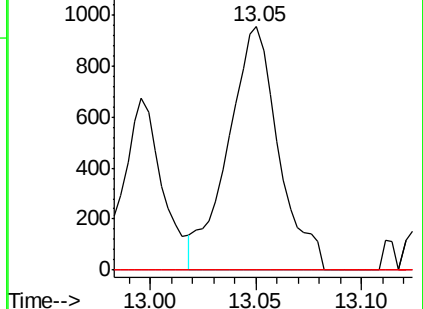
157 0.0 88.2 132.2#

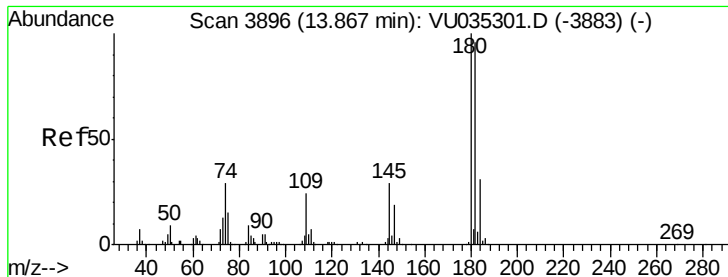


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#68

1,2,4-trichlorobenzene

Concen: 1.018 ug/L

RT: 13.86 min Scan# 3895

Delta R.T. -0.00 min

Lab File: VU035313.D

Acq: 19 Oct 2019 13:04

Instrument :

MSVOA_U

ClientSampleId :

BF6K9

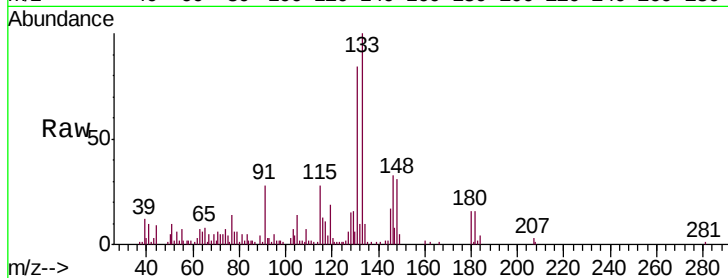
Tgt Ion:180 Resp: 3366

Ion Ratio Lower Upper

180 100

182 106.1 76.2 114.2

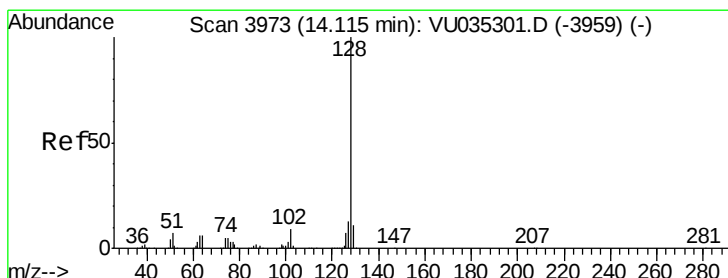
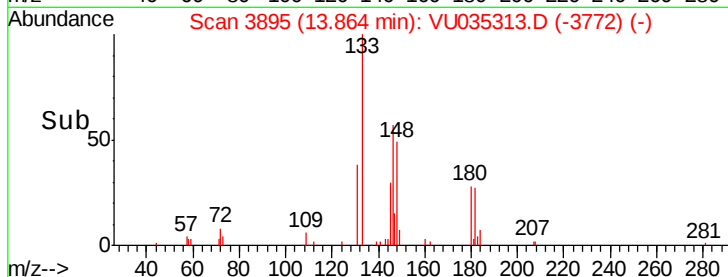
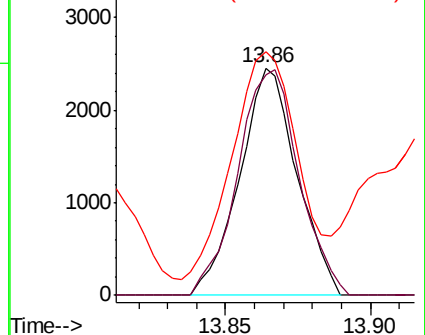
145 114.8 22.8 34.2#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#69

Naphthalene

Concen: 13.150 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VU035313.D

Acq: 19 Oct 2019 13:04

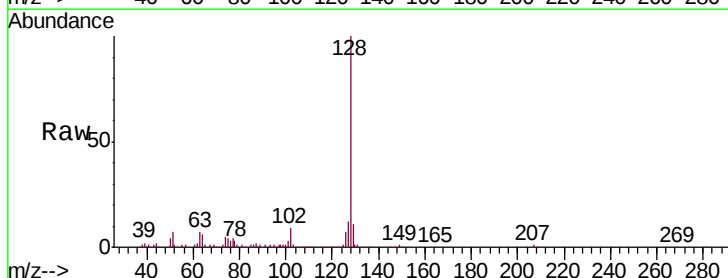
Tgt Ion:128 Resp: 119684

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.4

129 11.9 8.6 13.0



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

