

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
 Data File : VU032353.D
 Acq On : 29 May 2019 12:01
 Operator : JC/SP
 Sample : K3045-02
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0C46

Quant Time: May 30 05:37:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 30 05:34:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	383053	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	389127	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	203007	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	126563	5.88	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	117.60%
7) Chloroethane-d5	1.68	69	108375	5.40	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	108.00%
11) 1,1-Dichloroethene-d2	2.27	63	179490	4.53	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.60%
20) 2-Butanone-d5	4.19	46	300059	49.45	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.90%
24) Chloroform-d	4.64	84	230788	4.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.00%
26) 1,2-Dichloroethane-d4	5.31	65	115884	3.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.60%
32) Benzene-d6	5.33	84	500488	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.60%
36) 1,2-Dichloropropane-d6	6.32	67	146841	4.09	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	81.80%
41) Toluene-d8	7.56	98	492699	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.80%
43) trans-1,3-Dichloropropene-	7.85	79	55000	3.99	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.80%
46) 2-Hexanone-d5	8.31	63	246432	47.50	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.00%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	118652	3.33	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	66.60%
64) 1,2-Dichlorobenzene-d4	11.85	152	194910	3.48	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	69.60%#

Target Compounds

					Qvalue
3) Chloromethane	1.33	50	3633	0.221 ug/L	87
8) Chloroethane	1.47	64	80793	7.677 ug/L #	54
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	2221	0.164 ug/L #	23
12) 1,1-Dichloroethene	2.27	96	1720	0.126 ug/L #	1
13) Acetone	2.30	43	573659	305.134 ug/L	51
15) Methyl Acetate	2.70	43	2408660	436.627 ug/L #	41
16) Methylene chloride	2.70	84	8699	0.478 ug/L #	1
21) 2-Butanone	4.21	43	84305	29.724 ug/L #	48
27) 1,2-Dichloroethane	5.39	62	10447	0.735 ug/L #	90
30) Cyclohexane	5.07	56	1952805	103.424 ug/L #	15
33) Benzene	5.38	78	1051166	19.970 ug/L	100
34) Trichloroethene	6.28	95	2906	0.206 ug/L #	10
35) Methylcyclohexane	6.39	83	109988	5.286 ug/L #	35
38) Bromodichloromethane	6.73	83	20088	1.220 ug/L #	1
39) cis-1,3-Dichloropropene	7.22	75	3396	0.188 ug/L #	59
40) 4-Methyl-2-pentanone	7.52	43	22984	3.588 ug/L #	66
42) Toluene	7.64	91	8510	0.152 ug/L	97

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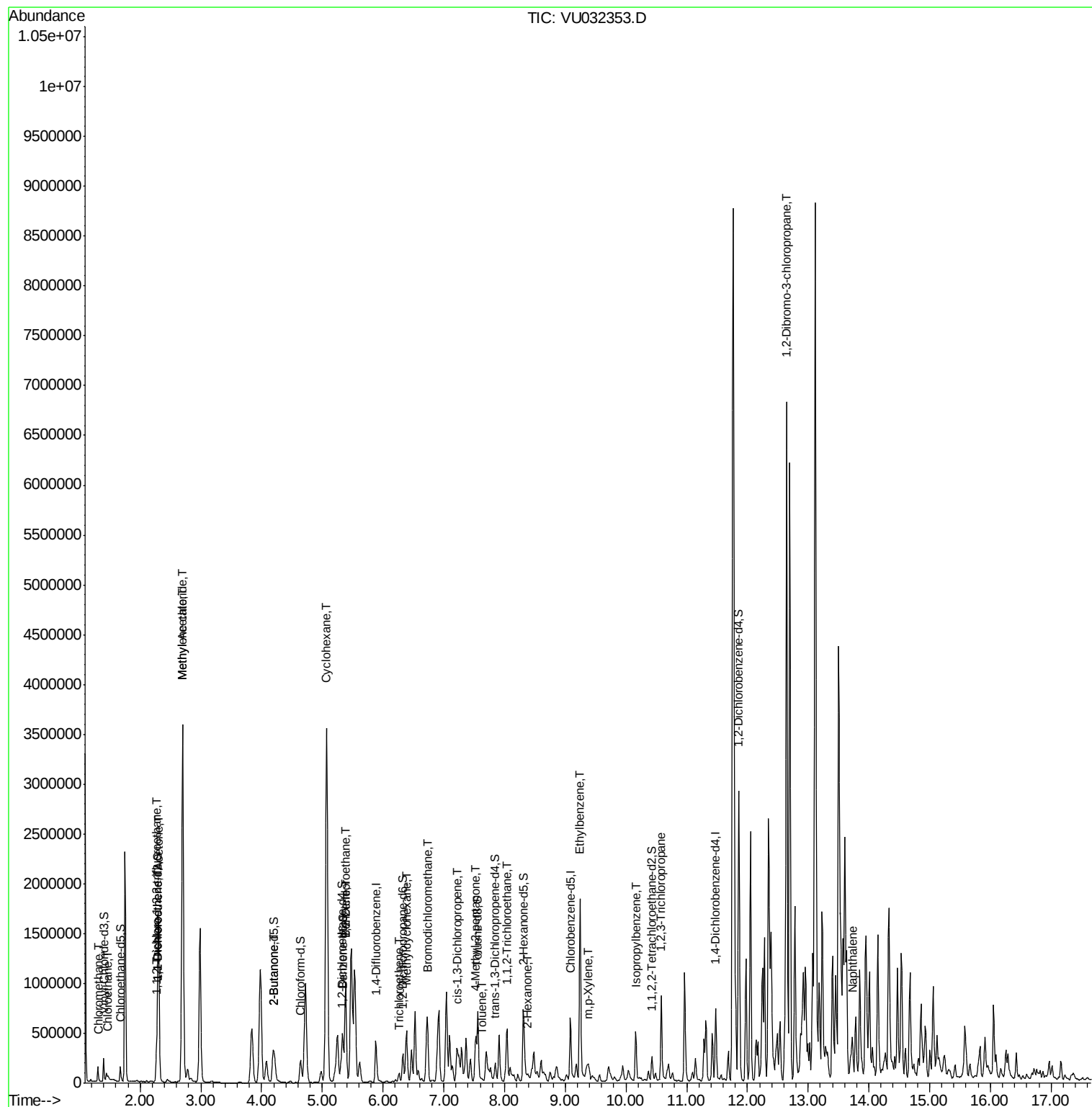
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.04	97	215769	22.048	ug/L #	20
48) 2-Hexanone	8.37	43	11478	2.336	ug/L #	48
52) Ethylbenzene	9.24	91	1287885	22.876	ug/L	98
53) m,p-Xylene	9.38	106	30009	1.433	ug/L	97
56) Isopropylbenzene	10.16	105	324571	6.137	ug/L	99
59) 1,2,3-Trichloropropane	10.58	75	4355	0.528	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	12.65	75	26930	13.708	ug/L #	1
69) Naphthalene	13.73	128	52195	2.120	ug/L #	45

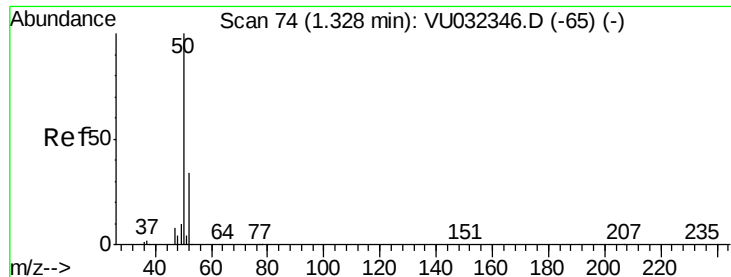
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.221 ug/L

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU032353.D

Acq: 29 May 2019 12:01

Instrument :

MSVOA_U

ClientSampleId :

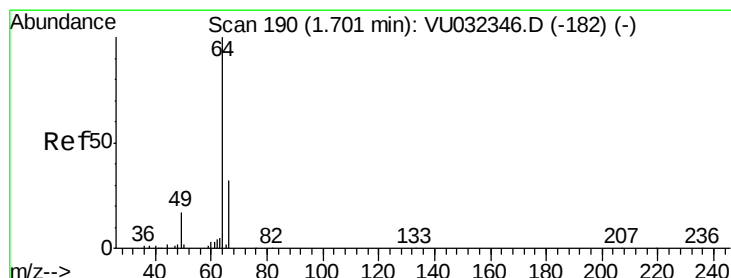
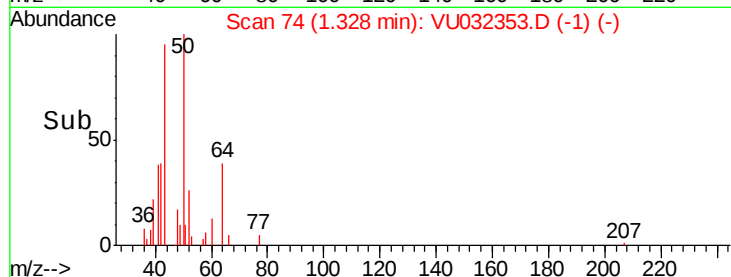
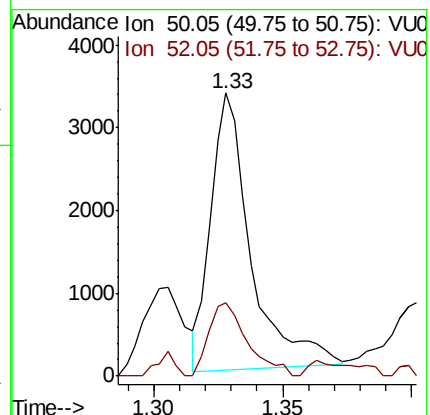
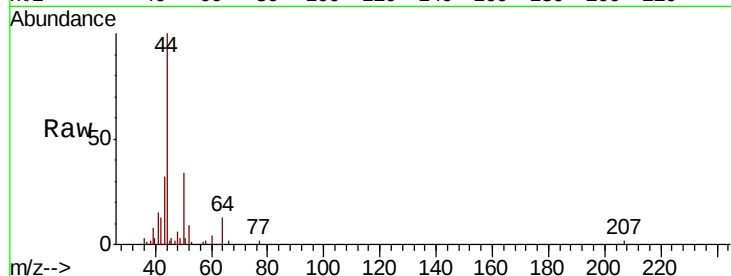
C0C46

Tgt Ion: 50 Resp: 3633

Ion Ratio Lower Upper

50 100

52 25.9 23.3 43.3



#8

Chloroethane

Concen: 7.677 ug/L

RT: 1.47 min Scan# 118

Delta R.T. -0.23 min

Lab File: VU032353.D

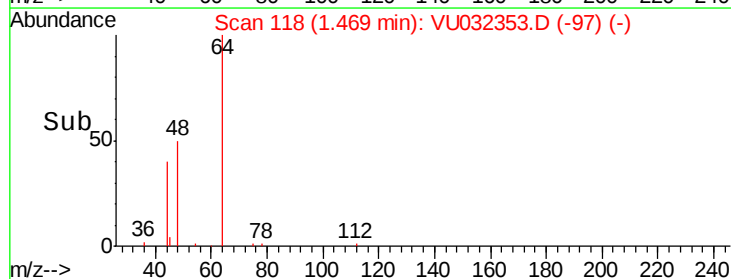
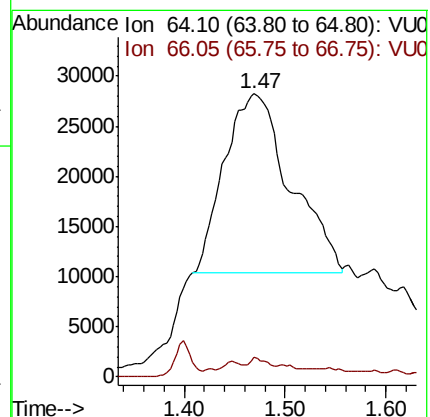
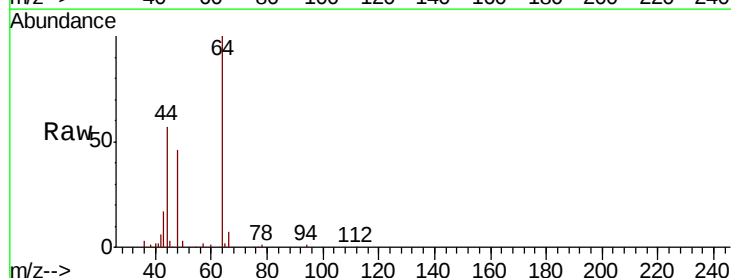
Acq: 29 May 2019 12:01

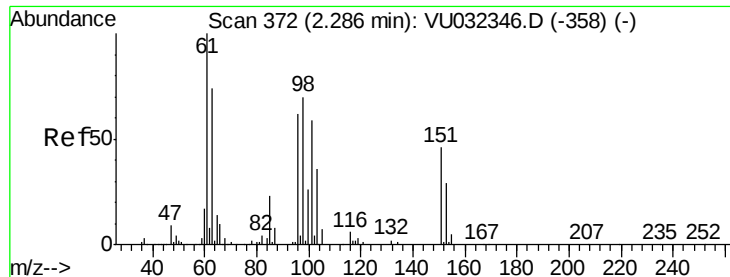
Tgt Ion: 64 Resp: 80793

Ion Ratio Lower Upper

64 100

66 6.8 23.1 42.9#





#10

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

Concen: 0.164 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.02 min

Lab File: VU032353.D

Acq: 29 May 2019 12:01

Instrument :

MSVOA_U

ClientSampleId :

C0C46

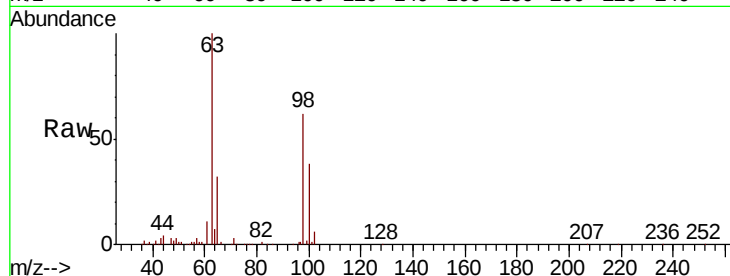
Tgt Ion: 101 Resp: 2221

Ion Ratio Lower Upper

101 100

85 75.6 34.2 51.4#

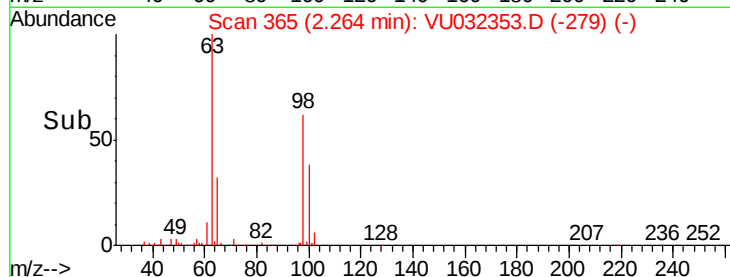
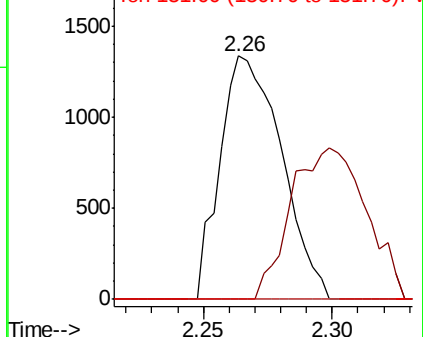
151 0.0 64.4 96.6#



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: 0.126 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032353.D

Acq: 29 May 2019 12:01

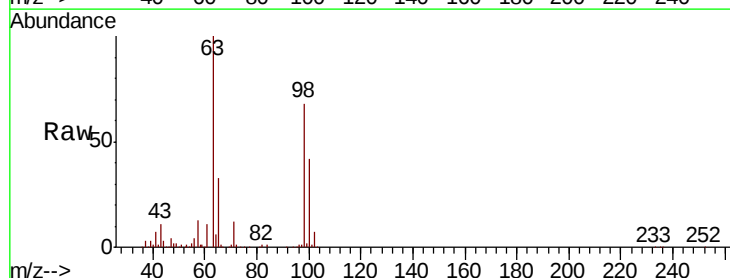
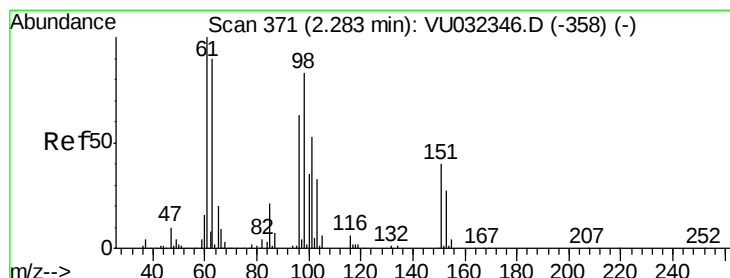
Tgt Ion: 96 Resp: 1720

Ion Ratio Lower Upper

96 100

61 1062.0 113.8 211.3#

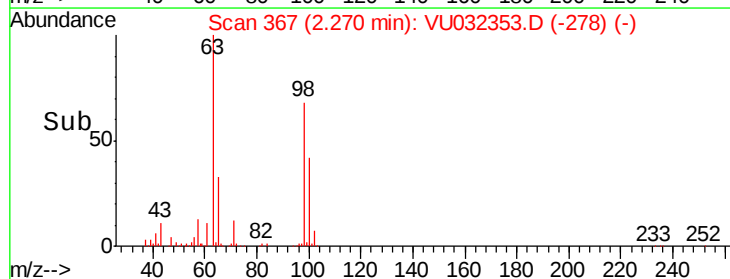
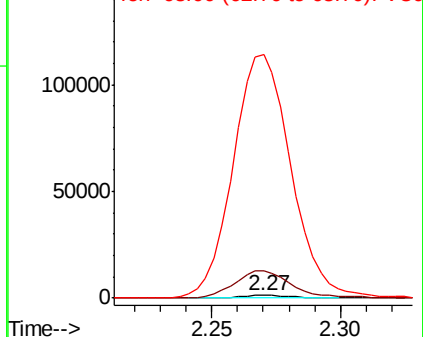
63 9462.7 108.8 202.2#

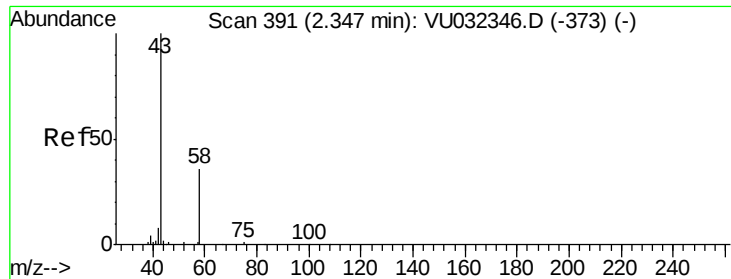


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 305.134 ug/L

RT: 2.30 min Scan# 376

Delta R.T. -0.05 min

Lab File: VU032353.D

Acq: 29 May 2019 12:01

Instrument :

MSVOA_U

ClientSampleId :

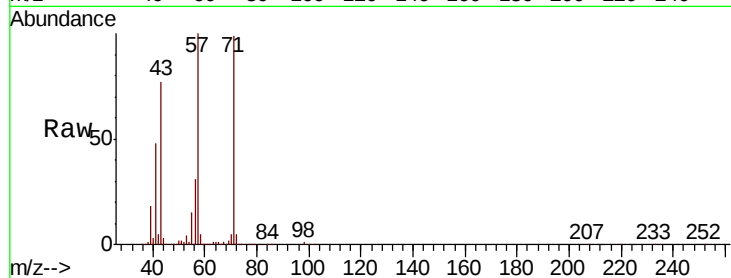
C0C46

Tgt Ion: 43 Resp: 573659

Ion Ratio Lower Upper

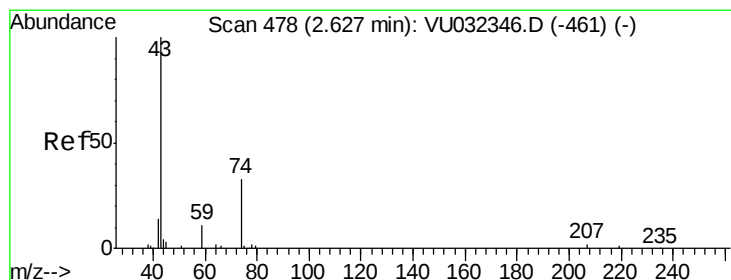
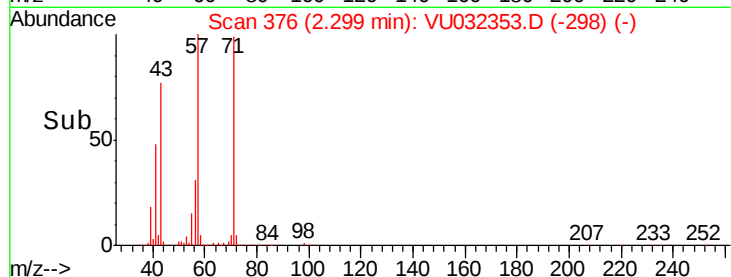
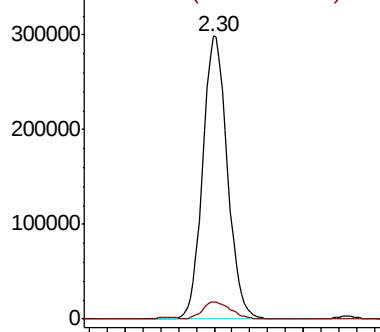
43 100

58 7.1 0.0 72.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#15

Methyl Acetate

Concen: 436.627 ug/L

RT: 2.70 min Scan# 500

Delta R.T. 0.07 min

Lab File: VU032353.D

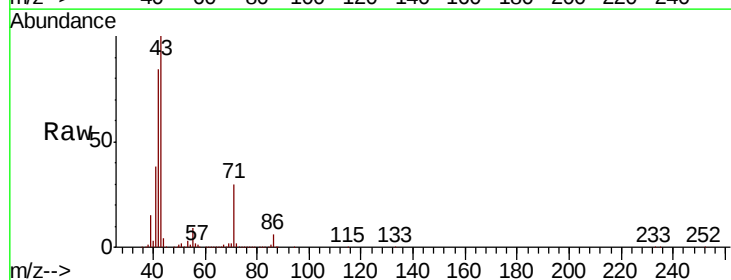
Acq: 29 May 2019 12:01

Tgt Ion: 43 Resp: 2408660

Ion Ratio Lower Upper

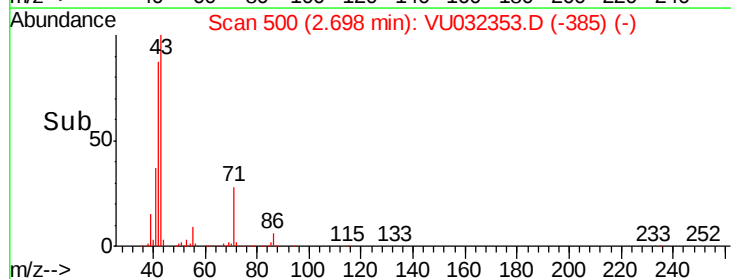
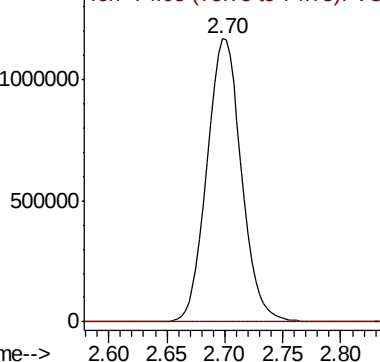
43 100

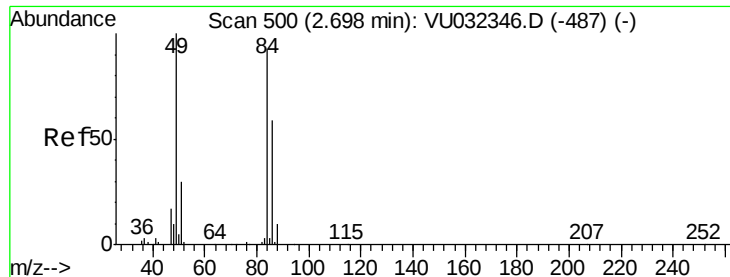
74 0.0 27.3 40.9#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

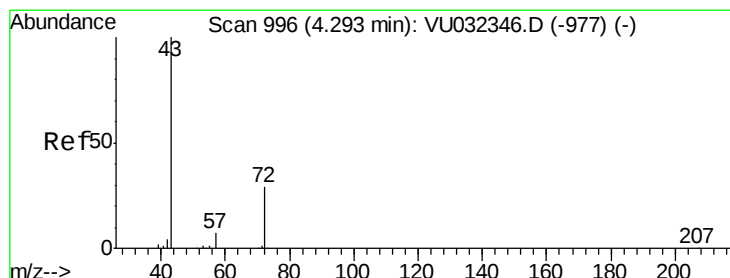
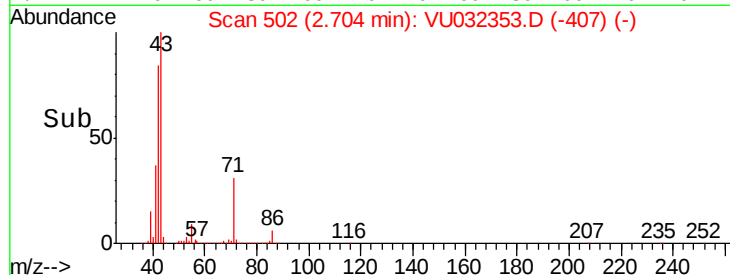
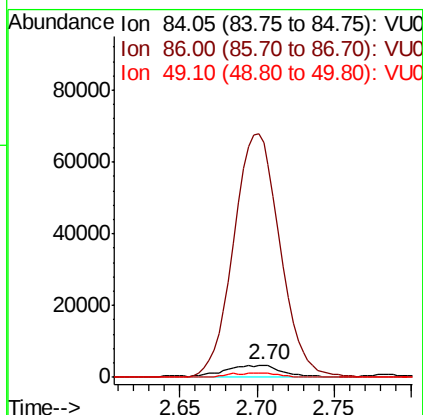
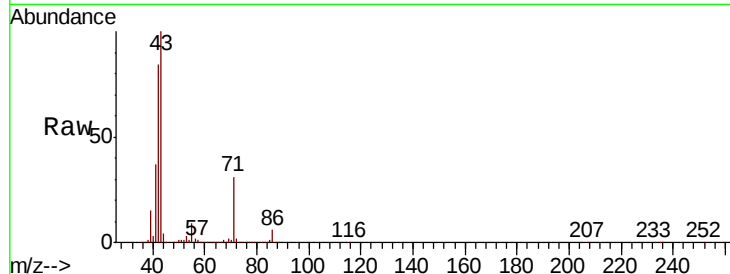




#16
Methylene chloride
Concen: 0.478 ug/L
RT: 2.70 min Scan# 502
Delta R.T. 0.01 min
Lab File: VU032353.D
Acq: 29 May 2019 12:01

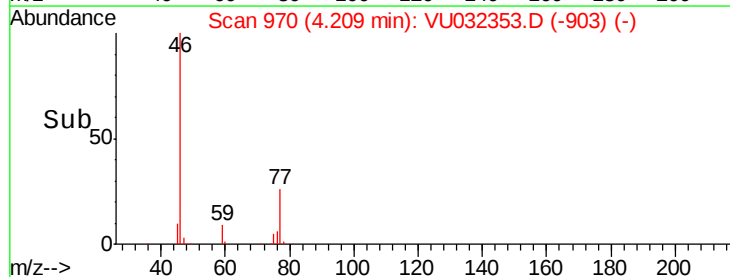
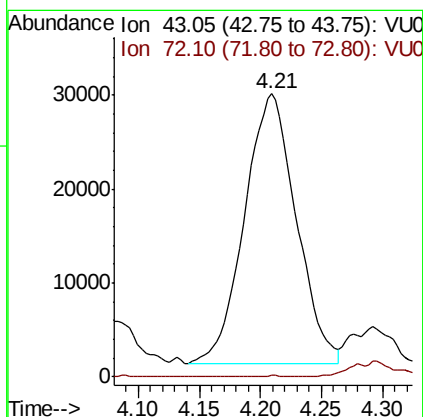
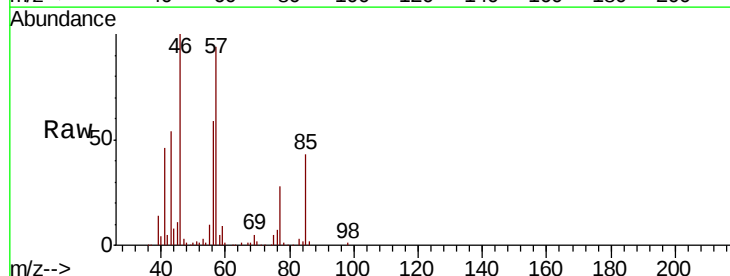
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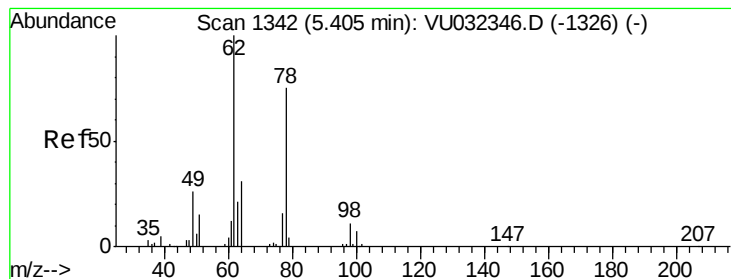
Tgt Ion: 84 Resp: 8699
Ion Ratio Lower Upper
84 100
86 1927.3 43.6 81.0#
49 36.2 71.1 132.1#



#21
2-Butanone
Concen: 29.724 ug/L
RT: 4.21 min Scan# 970
Delta R.T. -0.08 min
Lab File: VU032353.D
Acq: 29 May 2019 12:01

Tgt Ion: 43 Resp: 84305
Ion Ratio Lower Upper
43 100
72 2.0 15.2 45.6#





#27

1,2-Dichloroethane

Concen: 0.735 ug/L

RT: 5.39 min Scan# 1336

Delta R.T. -0.02 min

Lab File: VU032353.D

Acq: 29 May 2019 12:01

Instrument :

MSVOA_U

ClientSampleId :

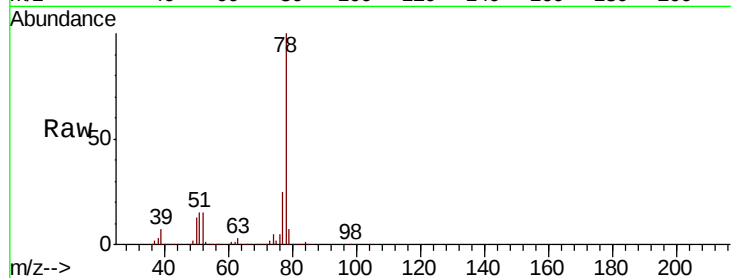
C0C46

Tgt Ion: 62 Resp: 10447

Ion Ratio Lower Upper

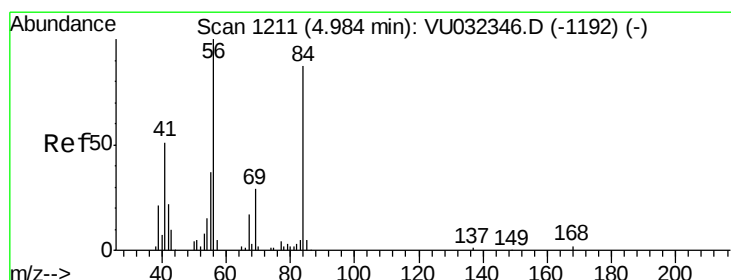
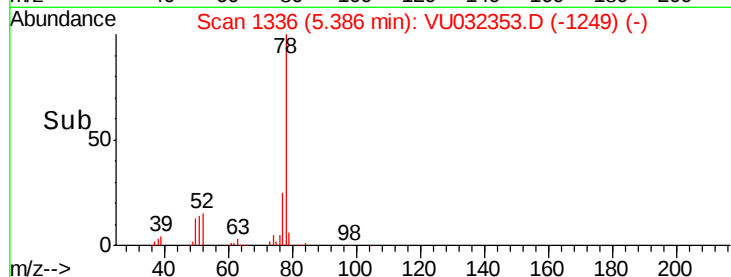
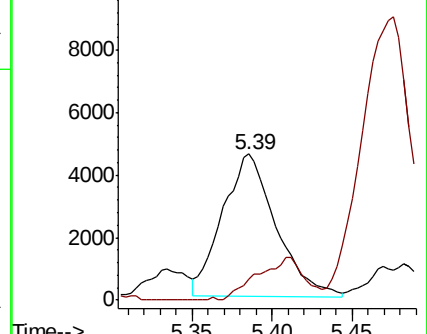
62 100

98 14.0 8.2 12.2#



Abundance Ion 62.00 (61.70 to 62.70): VU032346.D (-1326) (-)

Ion 98.05 (97.75 to 98.75): VU032346.D (-1326) (-)



#30

Cyclohexane

Concen: 103.424 ug/L

RT: 5.07 min Scan# 1238

Delta R.T. 0.09 min

Lab File: VU032353.D

Acq: 29 May 2019 12:01

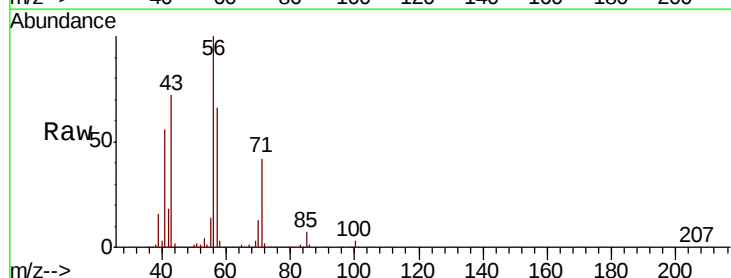
Tgt Ion: 56 Resp: 1952805

Ion Ratio Lower Upper

56 100

69 3.6 26.6 39.8#

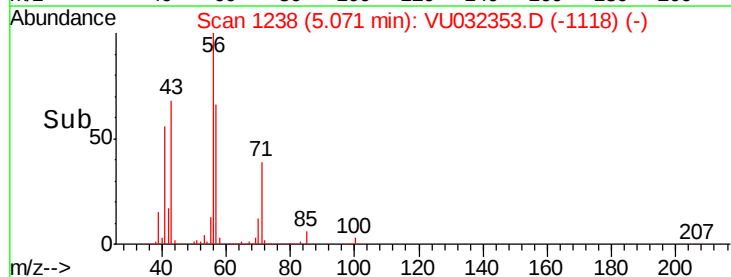
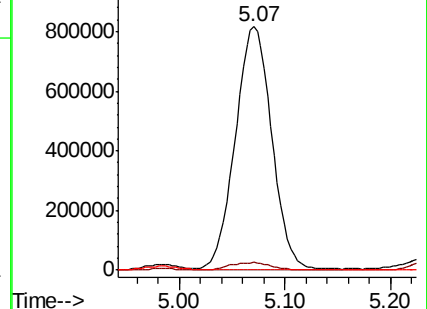
84 0.4 75.0 112.6#

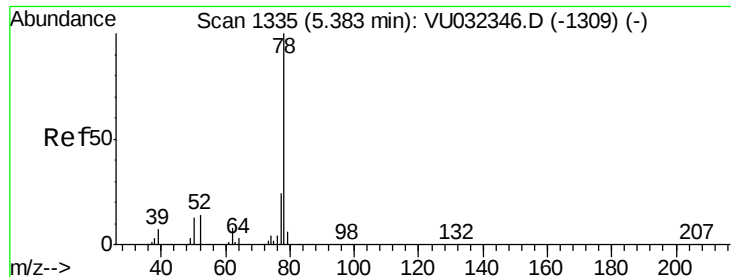


Abundance Ion 56.10 (55.80 to 56.80): VU032346.D (-1192) (-)

Ion 69.15 (68.85 to 69.85): VU032346.D (-1192) (-)

Ion 84.15 (83.85 to 84.85): VU032346.D (-1192) (-)





#33

Benzene

Concen: 19.970 ug/L

RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU032353.D

Acq: 29 May 2019 12:01

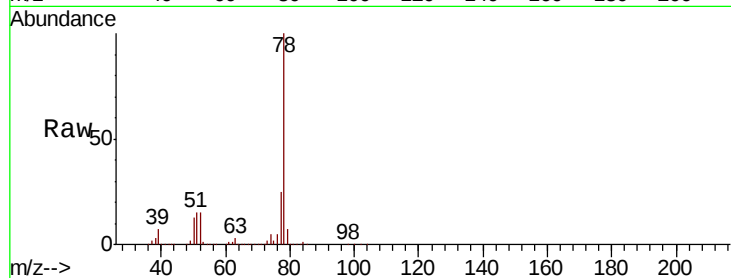
Instrument :

MSVOA_U

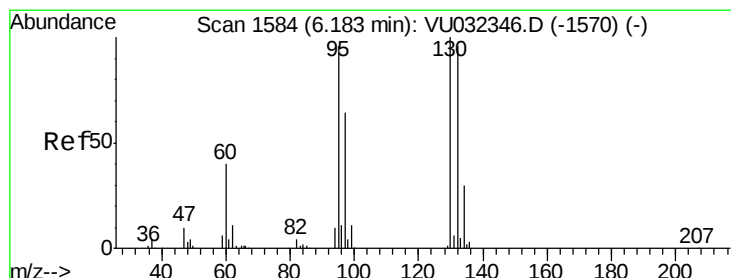
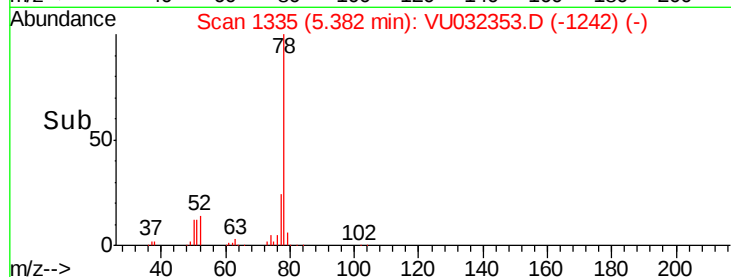
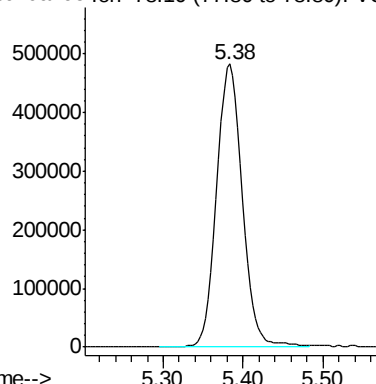
ClientSampleId :

C0C46

Tgt Ion: 78 Resp: 1051166



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.206 ug/L

RT: 6.28 min Scan# 1614

Delta R.T. 0.10 min

Lab File: VU032353.D

Acq: 29 May 2019 12:01

Tgt Ion: 95 Resp: 2906

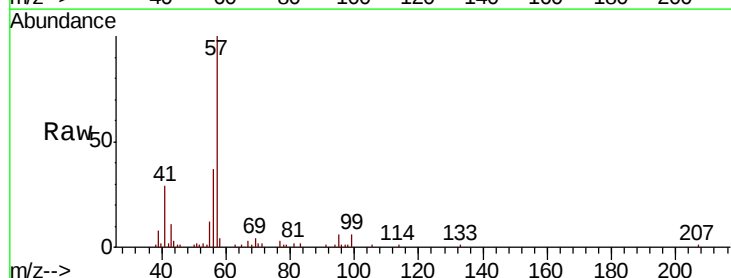
Ion Ratio Lower Upper

95 100

97 14.5 39.9 74.1#

132 0.0 65.9 122.5#

130 0.0 70.6 131.2#

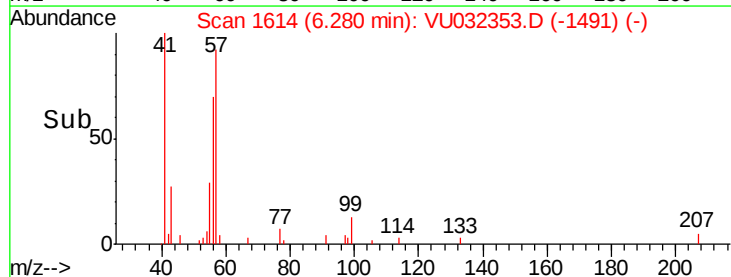
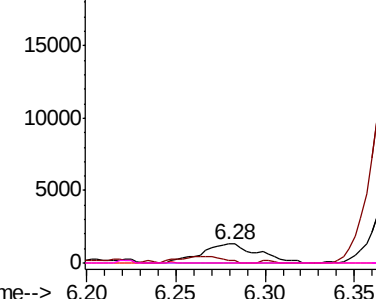


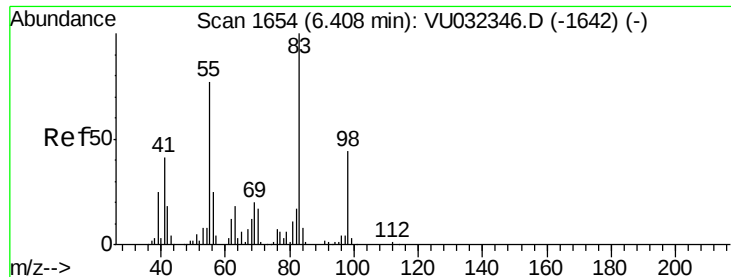
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

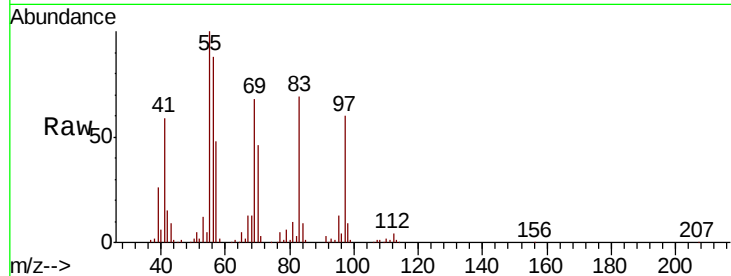




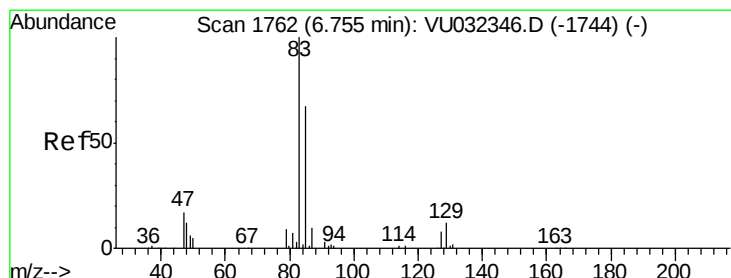
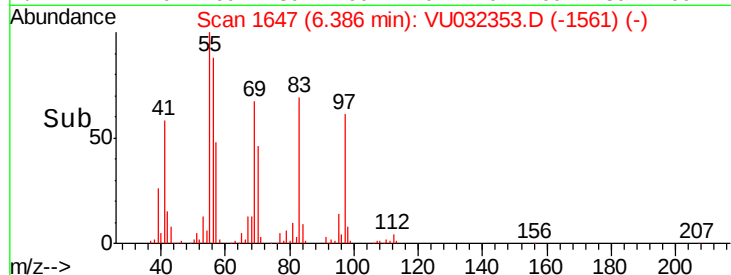
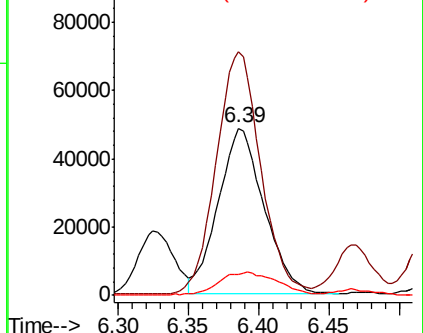
#35
Methylcyclohexane
Concen: 5.286 ug/L
RT: 6.39 min Scan# 1647
Delta R.T. -0.02 min
Lab File: VU032353.D
Acq: 29 May 2019 12:01

Instrument :
MSVOA_U
ClientSampleId :
C0C46

Tgt Ion: 83 Resp: 109988
Ion Ratio Lower Upper
83 100
55 140.9 59.7 89.5#
98 17.8 37.5 56.3#

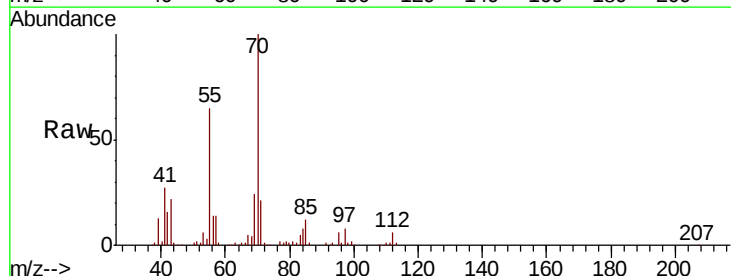


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

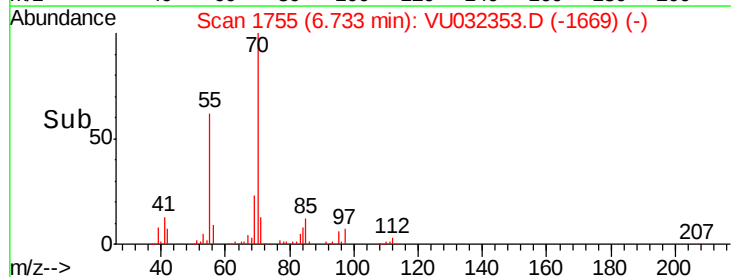
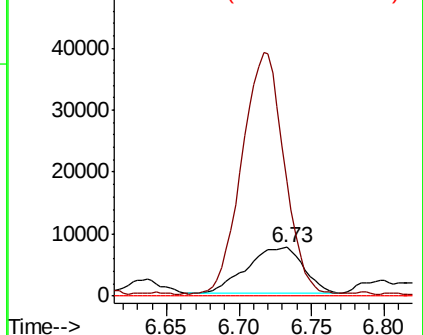


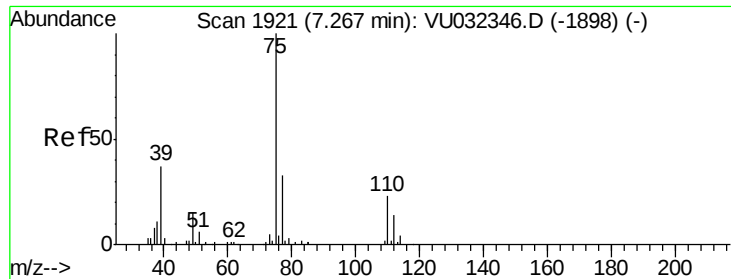
#38
Bromodichloromethane
Concen: 1.220 ug/L
RT: 6.73 min Scan# 1755
Delta R.T. -0.02 min
Lab File: VU032353.D
Acq: 29 May 2019 12:01

Tgt Ion: 83 Resp: 20088
Ion Ratio Lower Upper
83 100
85 234.7 44.4 82.4#
127 0.0 7.0 10.6#



Abundance Ion 82.95 (82.65 to 83.65): VU0
Ion 85.00 (84.70 to 85.70): VU0
Ion 126.90 (126.60 to 127.60): V

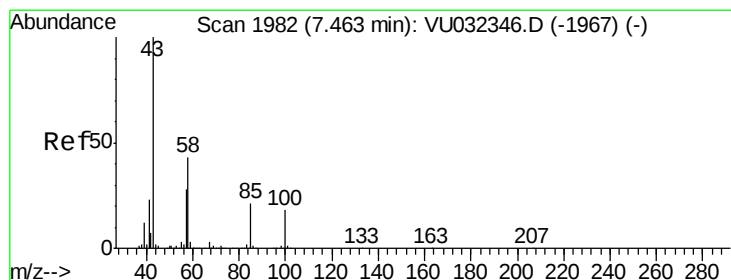
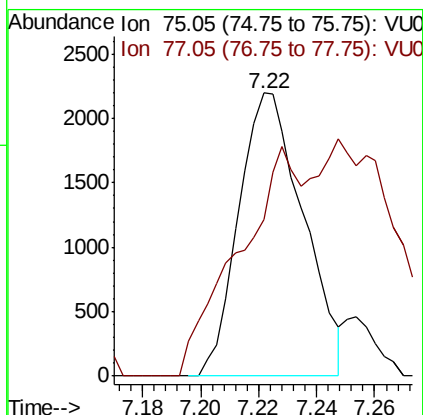
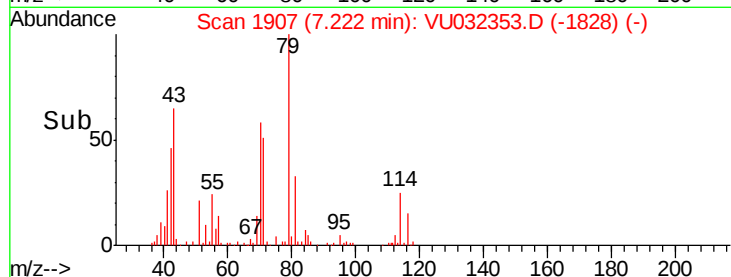
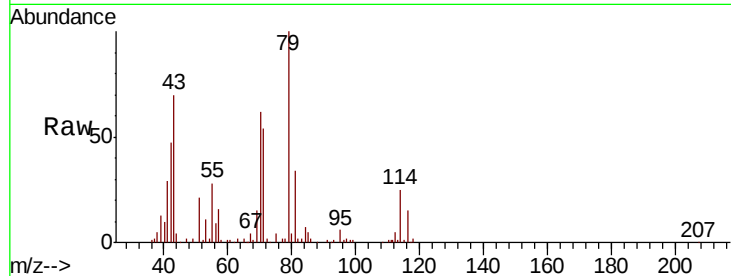




#39
 cis-1,3-Dichloropropene
 Concen: 0.188 ug/L
 RT: 7.22 min Scan# 1907
 Delta R.T. -0.05 min
 Lab File: VU032353.D
 Acq: 29 May 2019 12:01

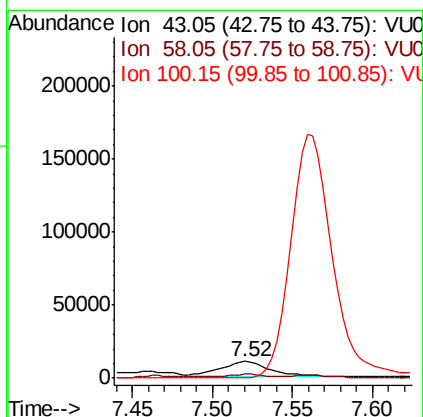
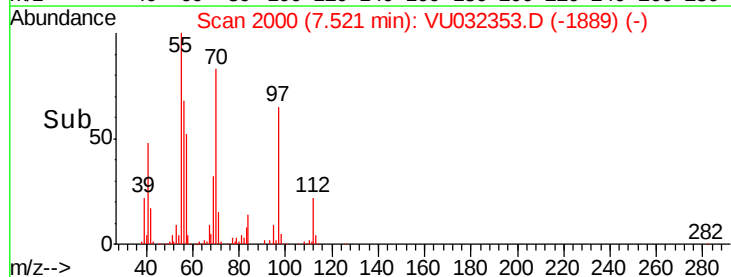
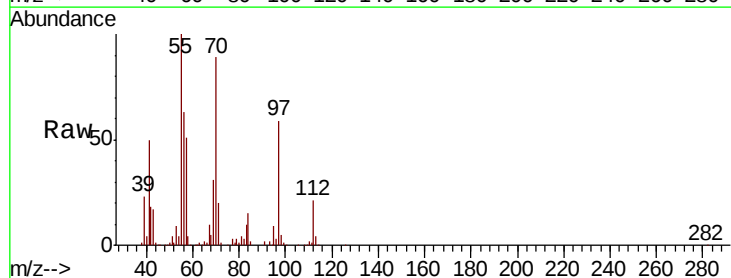
Instrument :
 MSVOA_U
 ClientSampleId :
 C0C46

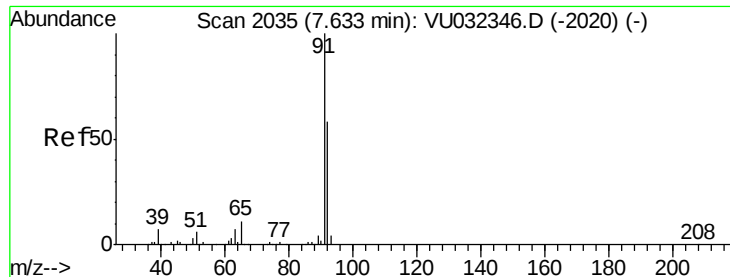
Tgt Ion: 75 Resp: 3396
 Ion Ratio Lower Upper
 75 100
 77 55.1 22.6 42.0#



#40
 4-Methyl-2-pentanone
 Concen: 3.588 ug/L
 RT: 7.52 min Scan# 2000
 Delta R.T. 0.06 min
 Lab File: VU032353.D
 Acq: 29 May 2019 12:01

Tgt Ion: 43 Resp: 22984
 Ion Ratio Lower Upper
 43 100
 58 24.6 35.8 53.6#
 100 0.0 14.6 22.0#





#42

Toluene

Concen: 0.152 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. 0.01 min

Lab File: VU032353.D

Acq: 29 May 2019 12:01

Instrument :

MSVOA_U

ClientSampleId :

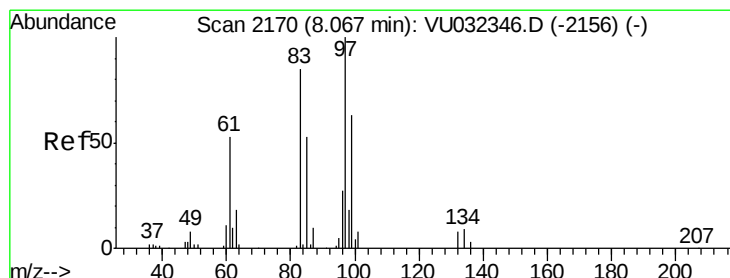
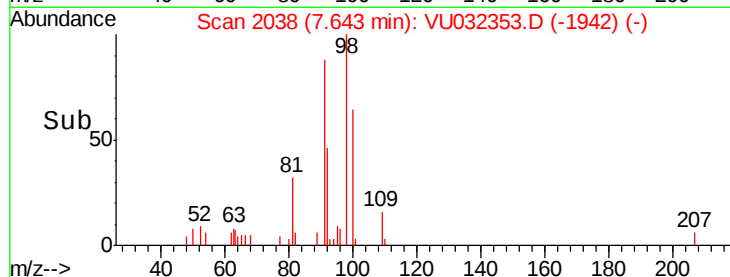
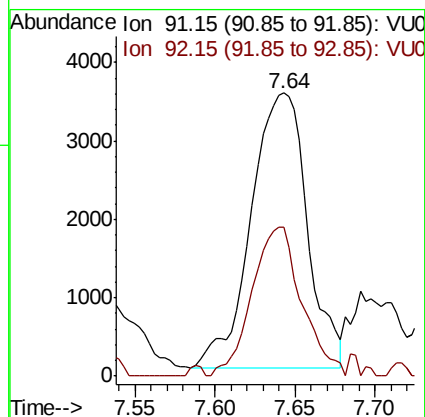
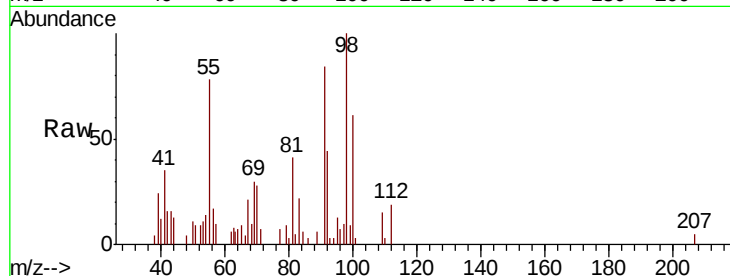
C0C46

Tgt Ion: 91 Resp: 8510

Ion Ratio Lower Upper

91 100

92 52.6 38.5 71.5



#45

1,1,2-Trichloroethane

Concen: 22.048 ug/L

RT: 8.04 min Scan# 2162

Delta R.T. -0.03 min

Lab File: VU032353.D

Acq: 29 May 2019 12:01

Tgt Ion: 97 Resp: 215769

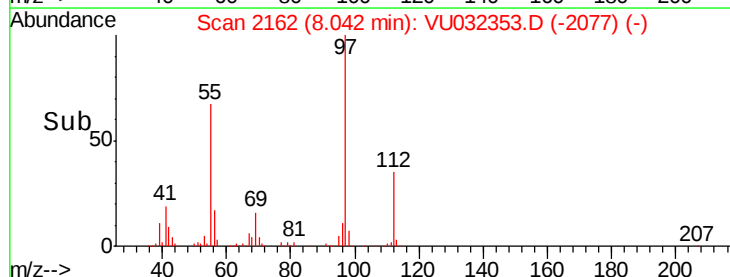
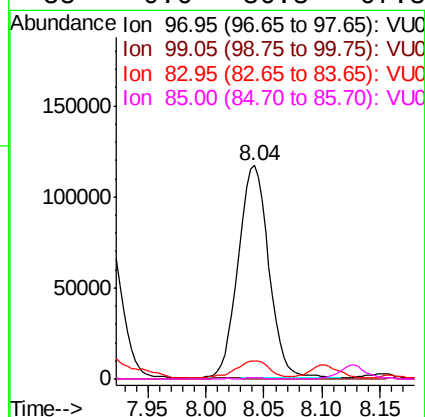
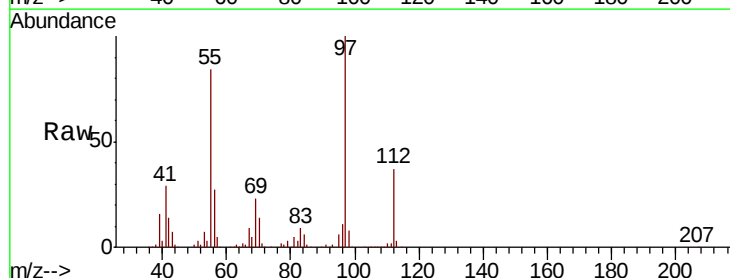
Ion Ratio Lower Upper

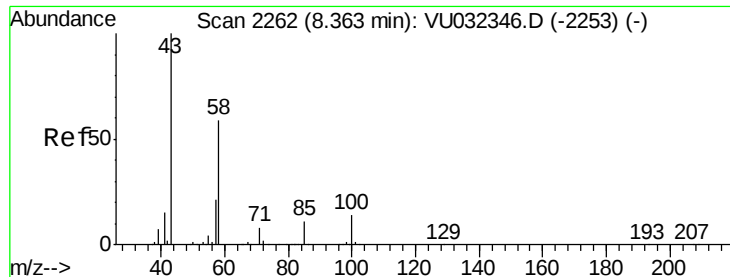
97 100

99 0.2 44.2 82.0#

83 8.6 60.5 112.3#

85 0.6 36.3 67.3#

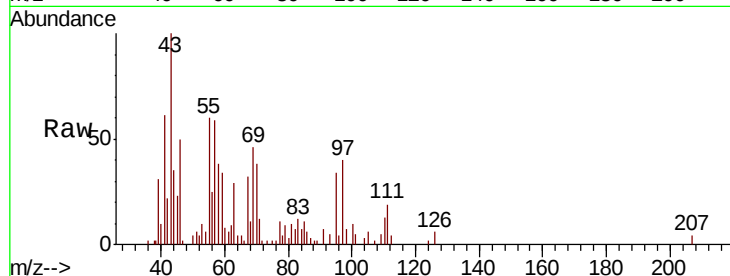




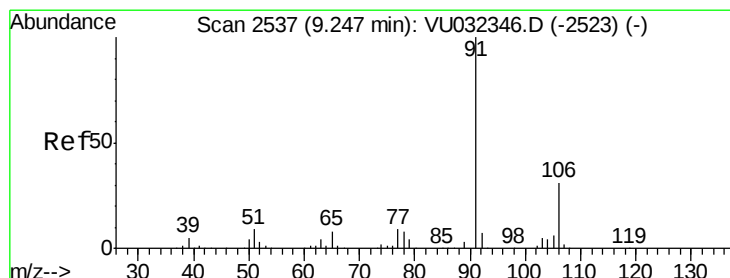
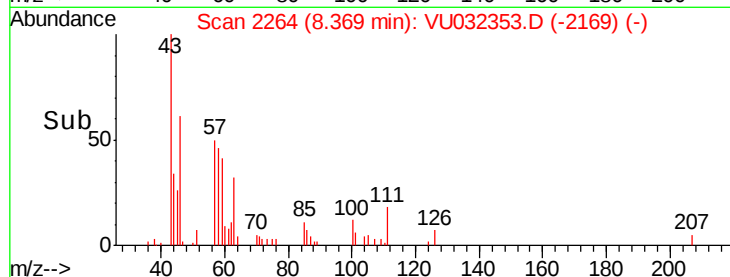
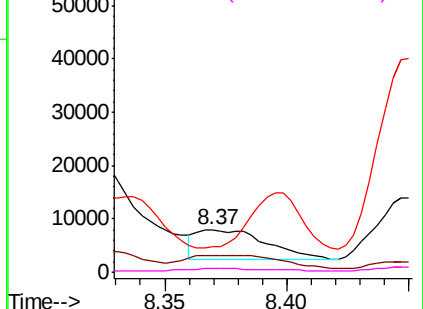
#48
2-Hexanone
Concen: 2.336 ug/L
RT: 8.37 min Scan# 2264
Delta R.T. 0.01 min
Lab File: VU032353.D
Acq: 29 May 2019 12:01

Instrument :
MSVOA_U
ClientSampleId :
C0C46

Tgt Ion: 43 Resp: 11478
Ion Ratio Lower Upper
43 100
58 59.7 49.7 74.5
57 129.8 17.1 25.7#
100 14.8 11.6 17.4

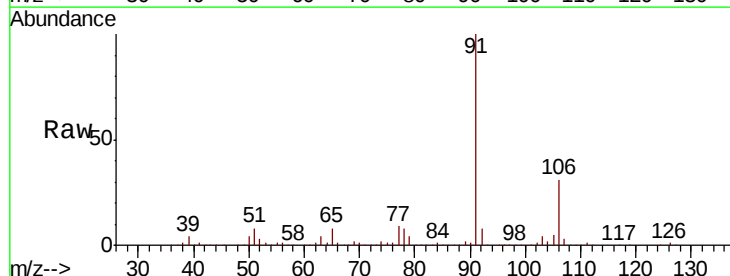


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

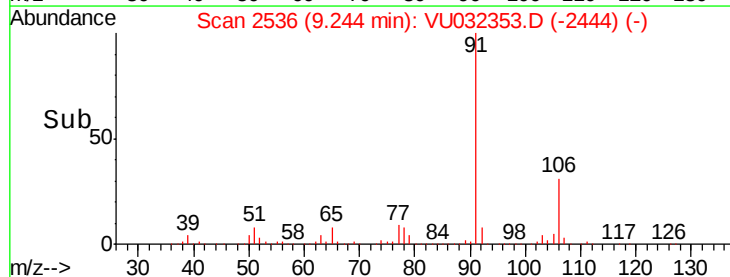
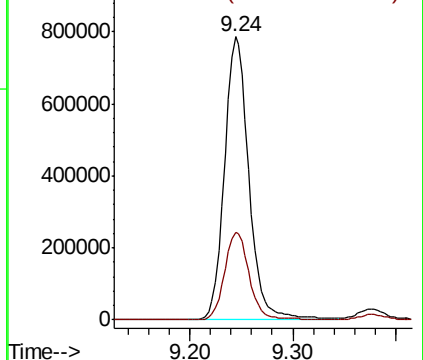


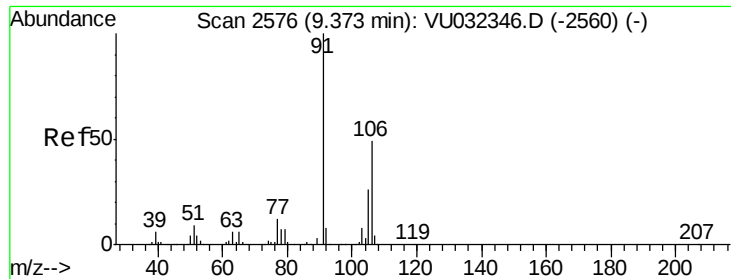
#52
Ethylbenzene
Concen: 22.876 ug/L
RT: 9.24 min Scan# 2536
Delta R.T. -0.00 min
Lab File: VU032353.D
Acq: 29 May 2019 12:01

Tgt Ion: 91 Resp: 1287885
Ion Ratio Lower Upper
91 100
106 31.0 20.9 38.9



Abundance Ion 91.15 (90.85 to 91.85): VU0
Ion 106.15 (105.85 to 106.85): VU0

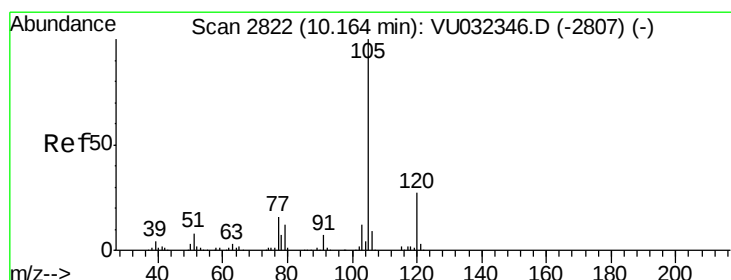
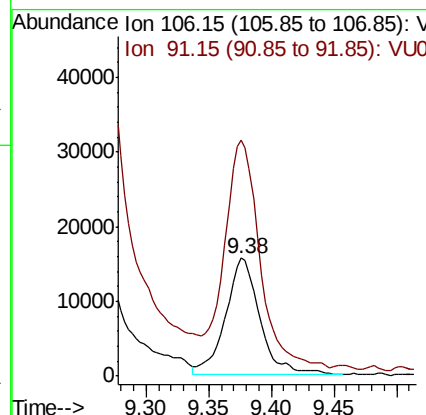
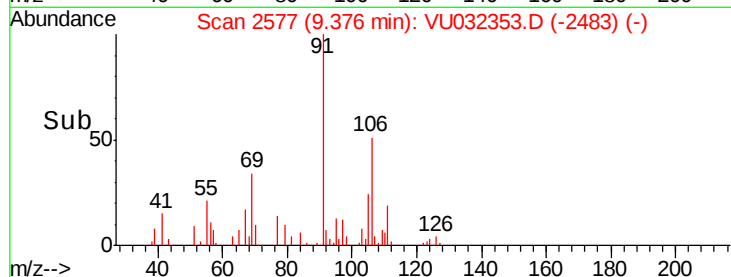
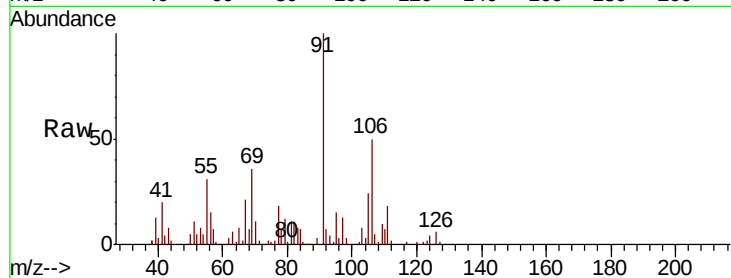




#53
m,p-Xylene
Concen: 1.433 ug/L
RT: 9.38 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VU032353.D
Acq: 29 May 2019 12:01

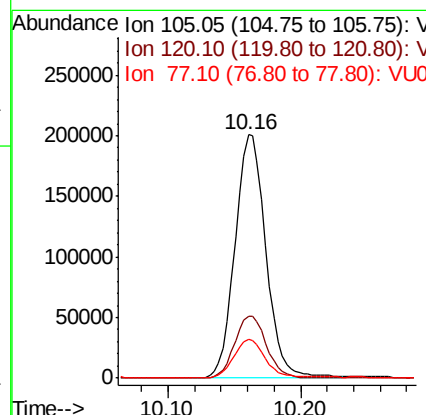
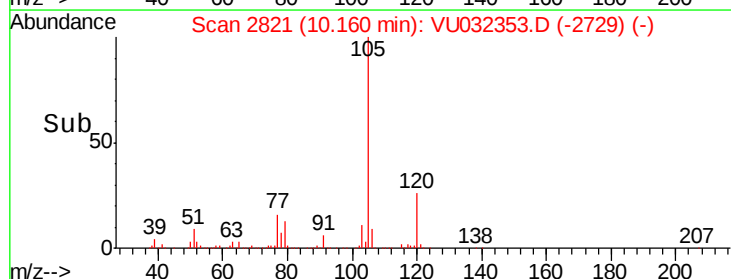
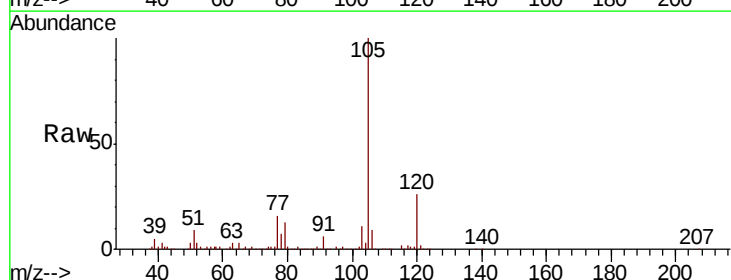
Instrument :
MSVOA_U
ClientSampleId :
C0C46

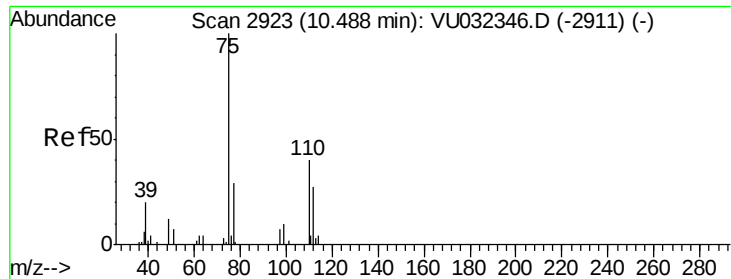
Tgt Ion:106 Resp: 30009
Ion Ratio Lower Upper
106 100
91 200.3 143.9 267.2



#56
Isopropylbenzene
Concen: 6.137 ug/L
RT: 10.16 min Scan# 2821
Delta R.T. -0.00 min
Lab File: VU032353.D
Acq: 29 May 2019 12:01

Tgt Ion:105 Resp: 324571
Ion Ratio Lower Upper
105 100
120 26.2 21.0 31.6
77 16.0 11.9 17.9





#59

1,2,3-Trichloropropane

Concen: 0.528 ug/L

RT: 10.58 min Scan# 2952

Delta R.T. 0.09 min

Lab File: VU032353.D

Acq: 29 May 2019 12:01

Instrument :

MSVOA_U

ClientSampleId :

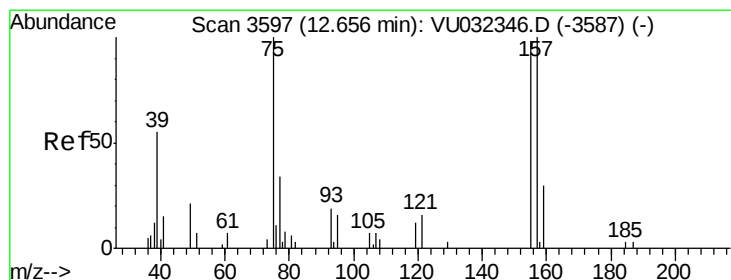
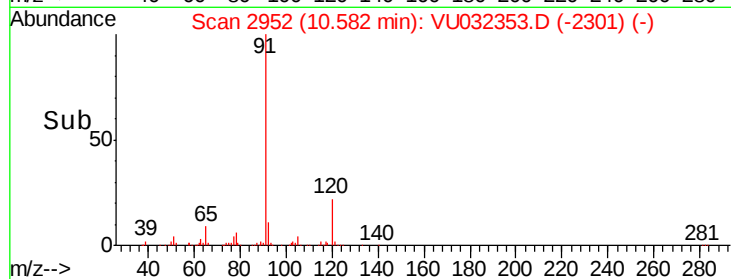
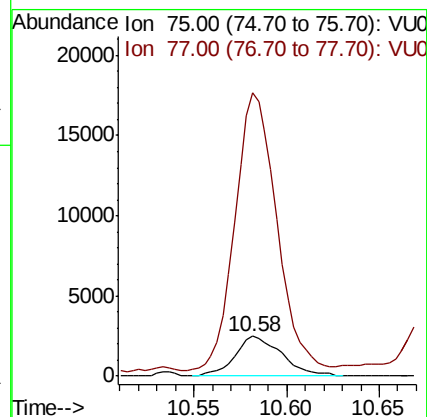
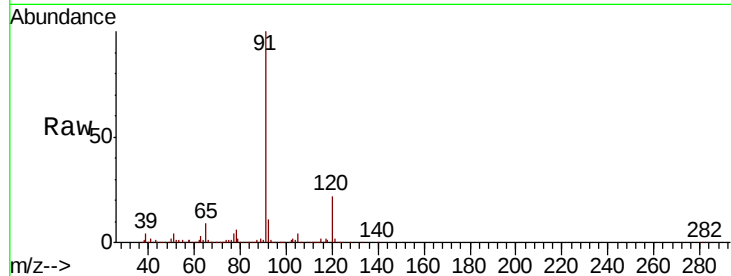
C0C46

Tgt Ion: 75 Resp: 4355

Ion Ratio Lower Upper

75 100

77 624.5 28.2 42.4#



#66

1,2-Dibromo-3-chloropropane

Concen: 13.708 ug/L

RT: 12.65 min Scan# 3594

Delta R.T. -0.01 min

Lab File: VU032353.D

Acq: 29 May 2019 12:01

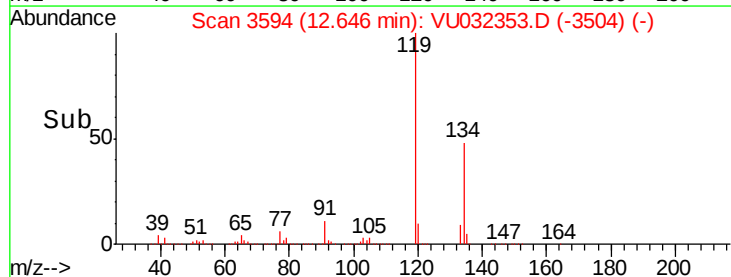
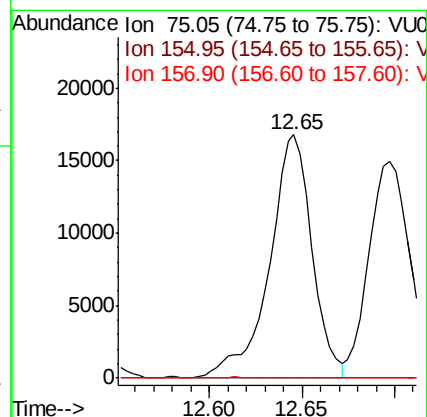
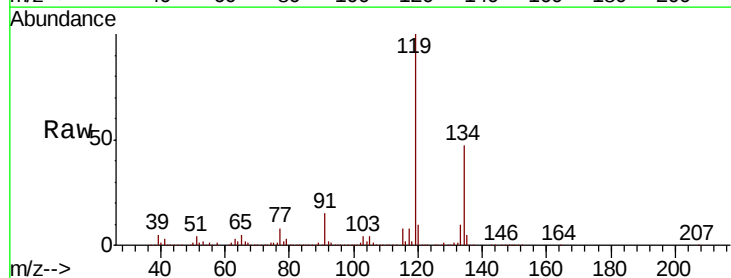
Tgt Ion: 75 Resp: 26930

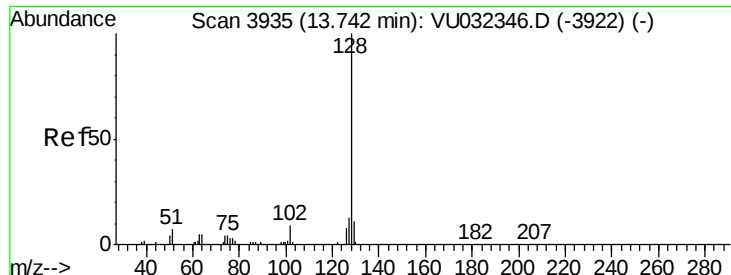
Ion Ratio Lower Upper

75 100

155 0.0 69.3 103.9#

157 0.0 90.6 135.8#





#69

Naphthalene

Concen: 2.120 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. -0.01 min

Lab File: VU032353.D

Acq: 29 May 2019 12:01

Instrument :

MSVOA_U

ClientSampleId :

C0C46

Tgt Ion:128 Resp: 52195

Ion Ratio Lower Upper

128 100

129 47.3 9.2 13.8#

127 23.6 11.1 16.7#

