

Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
DB8J7

Quant Time: Jun 07 07:05:36 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jun 07 07:01:53 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	186477	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	178405	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	93466	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	36611	30.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	60.52%
7) Chloroethane-d5	1.68	69	35654	36.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	73.34%
11) 1,1-Dichloroethene-d2	2.27	63	61270	25.87	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	51.74%#
21) 2-Butanone-d5	4.17	46	129256	127.66	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	127.66%
24) Chloroform-d	4.64	84	100962	44.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.48%
26) 1,2-Dichloroethane-d4	5.30	65	69223	48.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.40%
32) Benzene-d6	5.33	84	202216	43.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.32%
36) 1,2-Dichloropropane-d6	6.32	67	67513	46.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.98%
41) Toluene-d8	7.56	98	189850	43.23	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.46%
43) trans-1,3-Dichloropropene-	7.85	79	29556	42.53	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.06%
47) 2-Hexanone-d5	8.31	63	92882	131.85	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	131.85%#
57) 1,1,2,2-Tetrachloroethane-	10.43	84	115234	54.76	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	109.52%
64) 1,2-Dichlorobenzene-d4	11.85	152	89576	50.04	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.08%

Target Compounds

					Qvalue
5) Vinyl chloride	1.40	62	10557	6.506 ug/L #	67
8) Chloroethane	1.40	64	6561	6.802 ug/L #	70
13) Acetone	2.32	43	12619	12.079 ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	3052	2.545 ug/L	87
19) 1,1-Dichloroethane	3.44	63	8486	3.882 ug/L	95
20) cis-1,2-Dichloroethene	4.22	96	2608	1.922 ug/L	94
33) Benzene	5.39	78	52462	10.466 ug/L	100
37) 1,2-Dichloropropane	6.43	63	2928	2.204 ug/L #	88
39) cis-1,3-Dichloropropene	7.22	75	2035	0.971 ug/L	88
40) 4-Methyl-2-pentanone	7.46	43	48164	22.531 ug/L	99
42) Toluene	7.63	91	73401	13.371 ug/L	100
44) trans-1,3-Dichloropropene	7.85	75	1721	0.925 ug/L	96
51) Chlorobenzene	9.12	112	10340	2.924 ug/L	99
52) Ethylbenzene	9.24	91	60008	9.807 ug/L	99
53) m,p-Xylene	9.37	106	61408	26.392 ug/L	98
54) o-xylene	9.77	106	27610	11.951 ug/L	94
56) Isopropylbenzene	10.16	105	26220	4.304 ug/L	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Fri Jun 07 07:01:53 2019
Response via : Initial Calibration

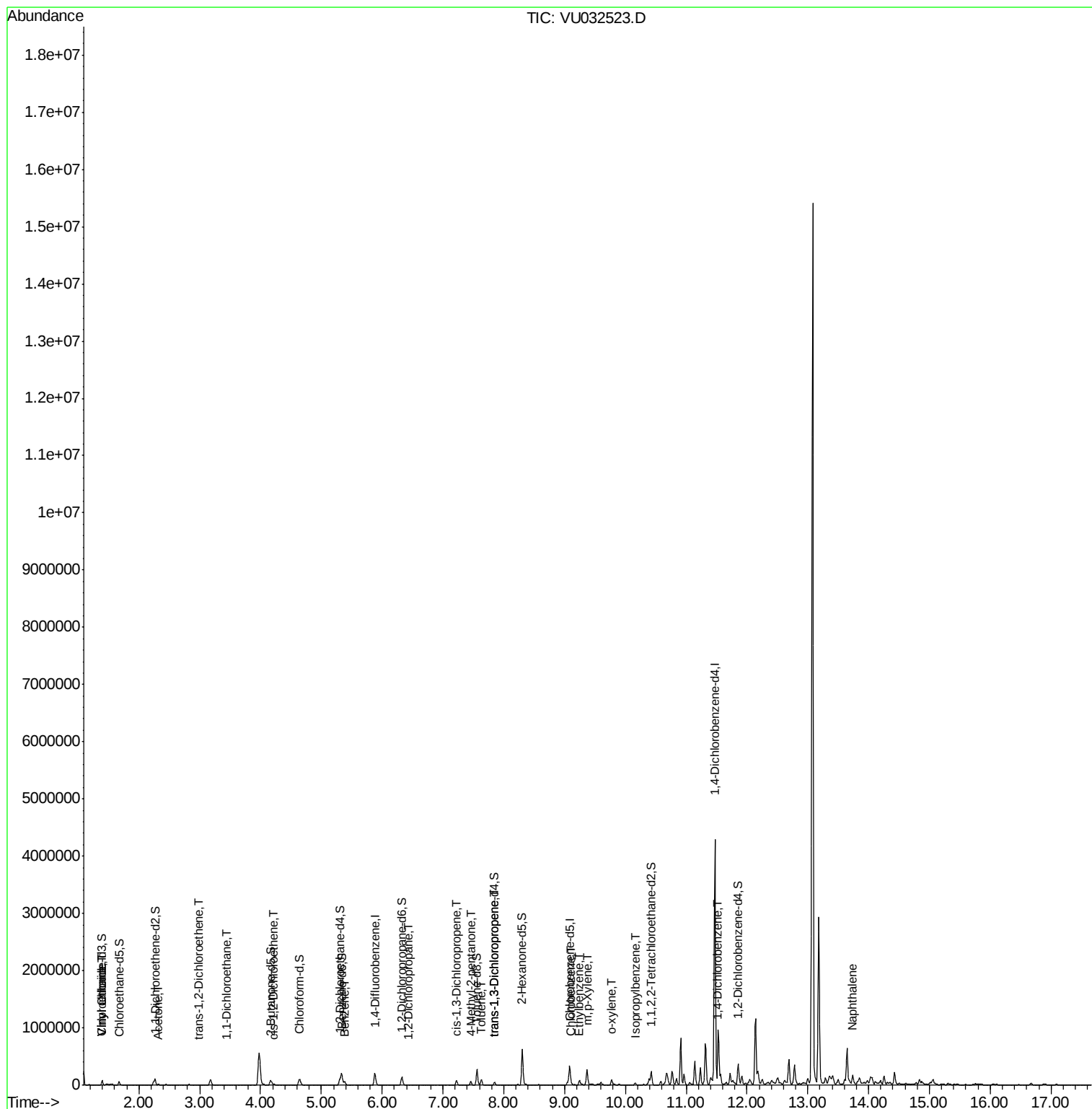
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.50	146	2034	0.704	ug/L	92
69) Naphthalene	13.74	128	102762	17.480	ug/L	100

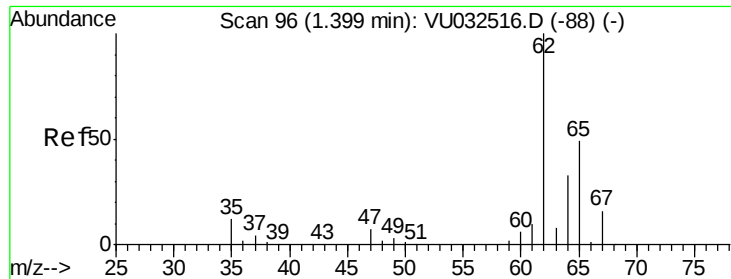
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 6.506 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU032523.D

Acq: 07 Jun 2019 02:07

Instrument :

MSVOA_U

ClientSampleId :

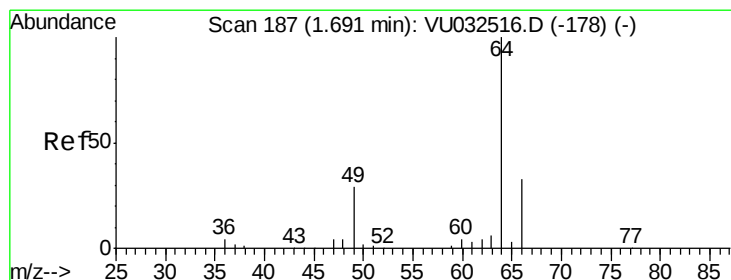
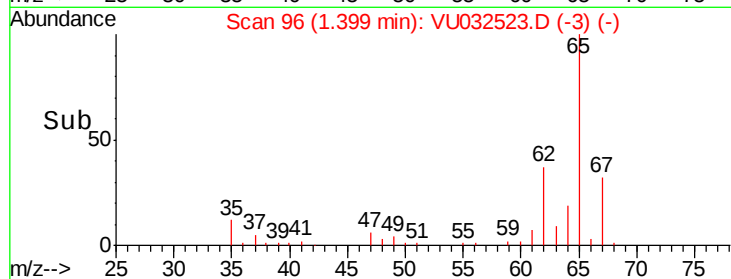
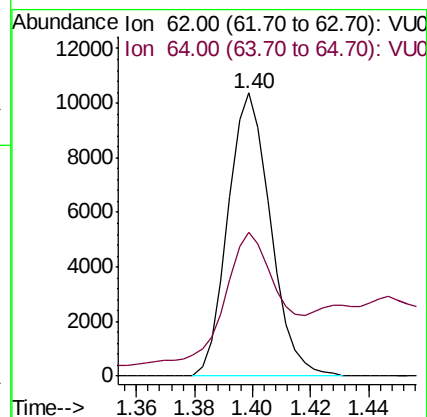
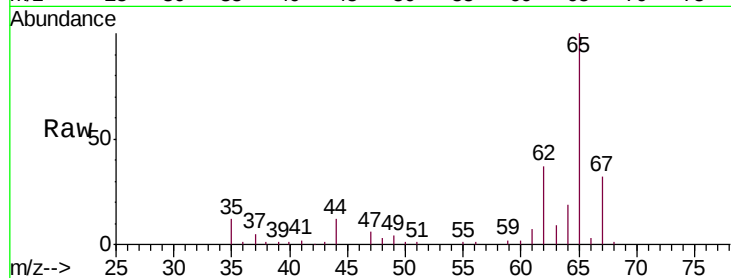
DB8J7

Tgt Ion: 62 Resp: 10557

Ion Ratio Lower Upper

62 100

64 50.9 22.6 42.0#



#8

Chloroethane

Concen: 6.802 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.29 min

Lab File: VU032523.D

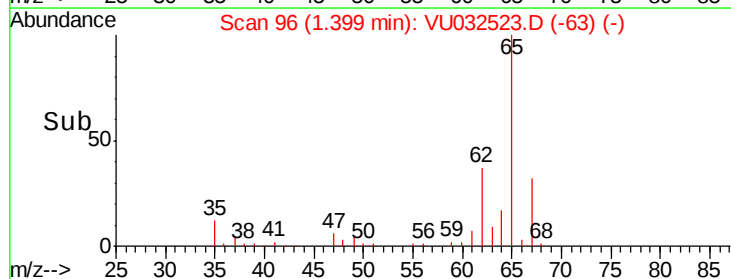
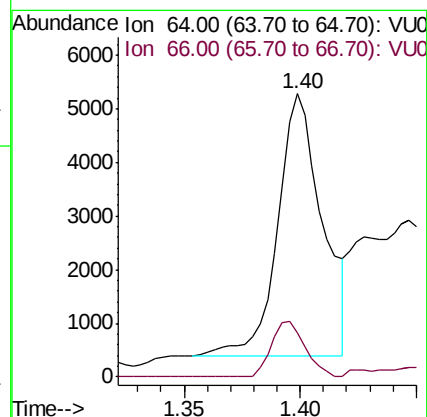
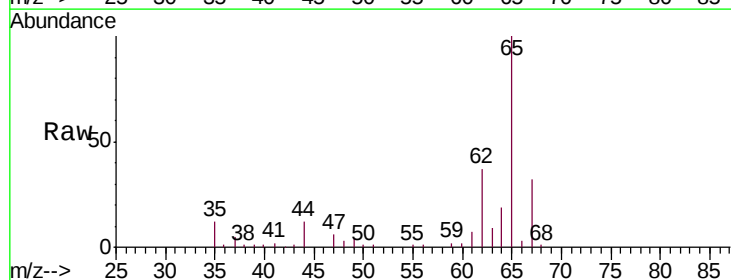
Acq: 07 Jun 2019 02:07

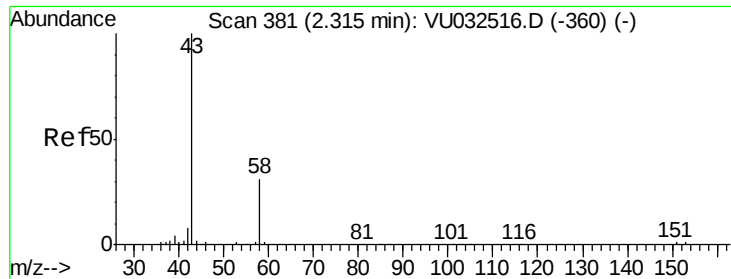
Tgt Ion: 64 Resp: 6561

Ion Ratio Lower Upper

64 100

66 15.7 22.9 42.5#





#13

Acetone

Concen: 12.079 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VU032523.D

Acq: 07 Jun 2019 02:07

Instrument :

MSVOA_U

ClientSampleId :

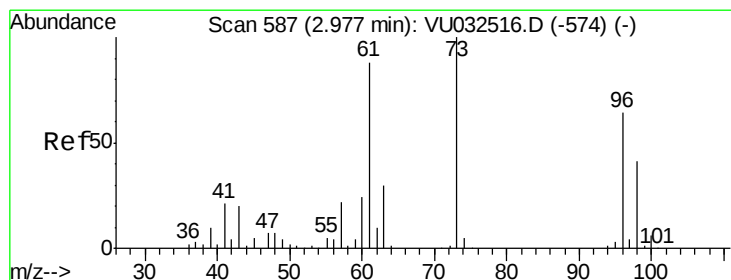
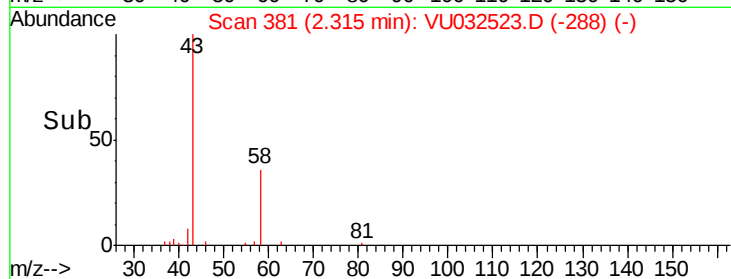
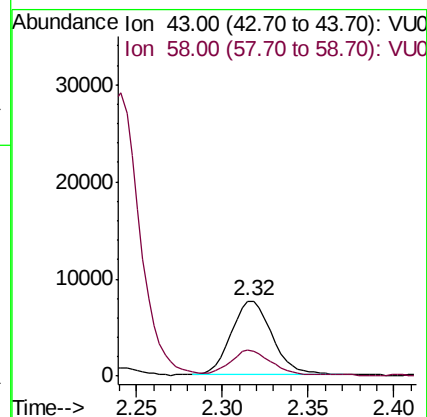
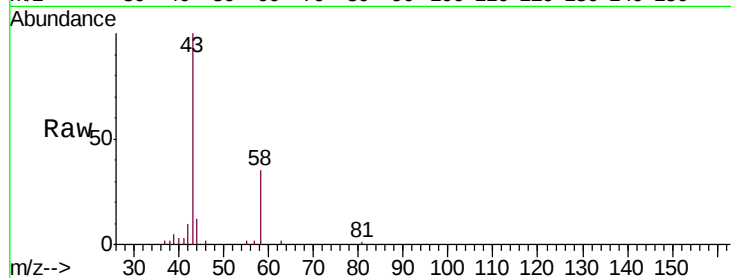
DB8J7

Tgt Ion: 43 Resp: 12619

Ion Ratio Lower Upper

43 100

58 32.9 0.0 64.0



#17

trans-1,2-Dichloroethene

Concen: 2.545 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU032523.D

Acq: 07 Jun 2019 02:07

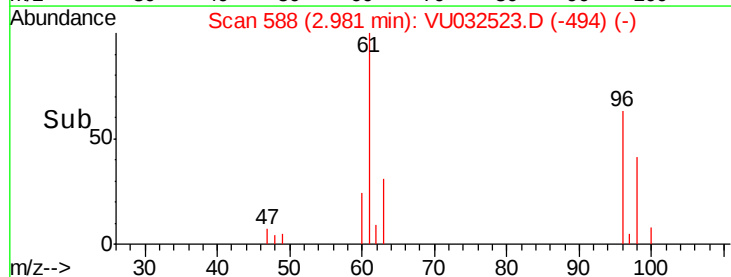
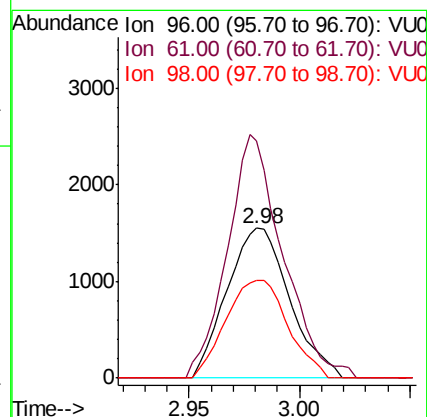
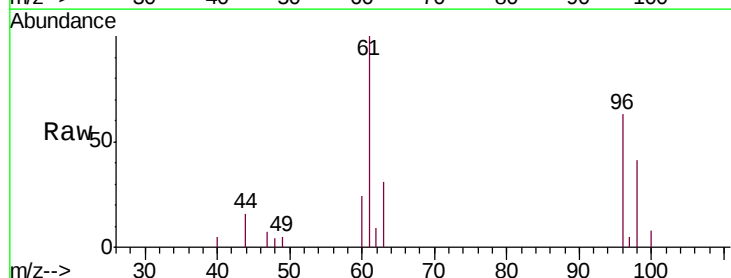
Tgt Ion: 96 Resp: 3052

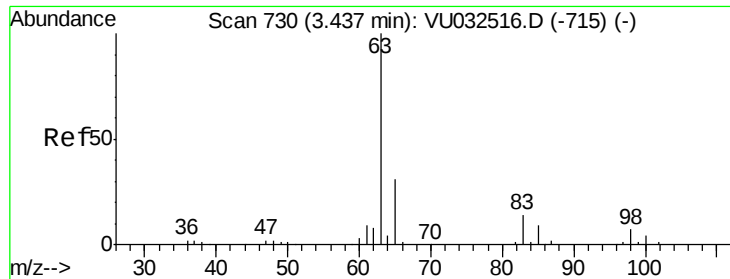
Ion Ratio Lower Upper

96 100

61 157.9 95.7 177.7

98 65.3 44.0 81.6

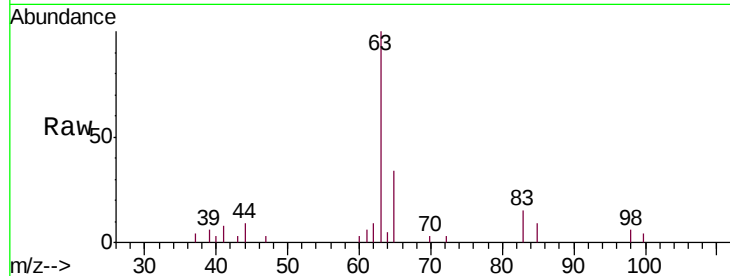




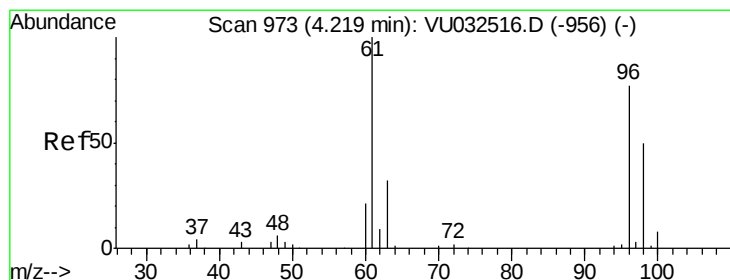
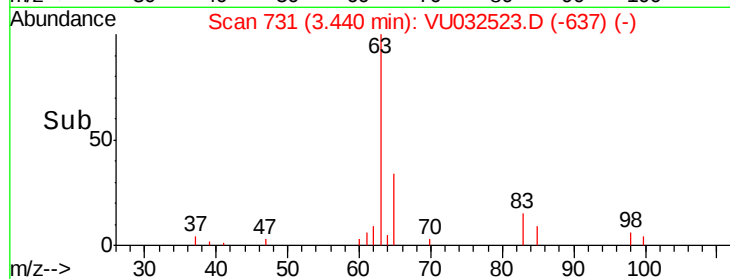
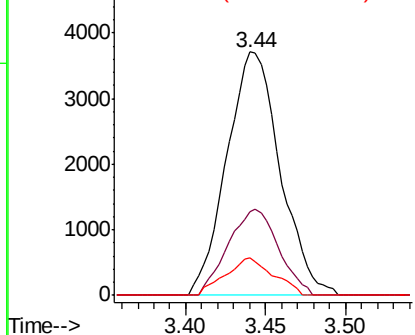
#19
 1,1-Dichloroethane
 Concen: 3.882 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU032523.D
 Acq: 07 Jun 2019 02:07

Instrument :
 MSVOA_U
 ClientSampleID :
 DB8J7

Tgt Ion: 63 Resp: 8486
 Ion Ratio Lower Upper
 63 100
 65 34.2 21.8 40.6
 83 15.2 9.8 18.2

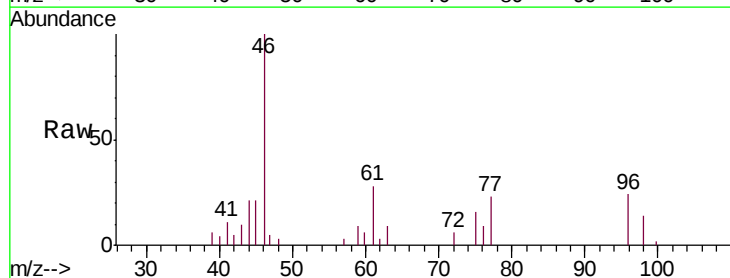


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

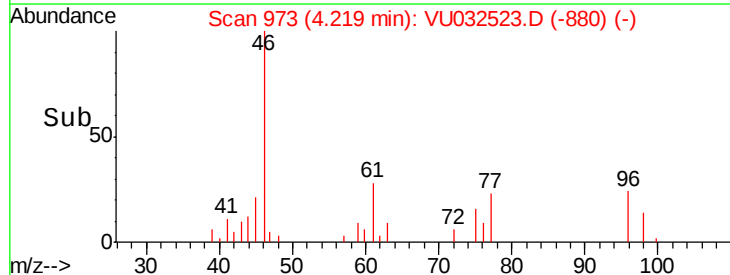
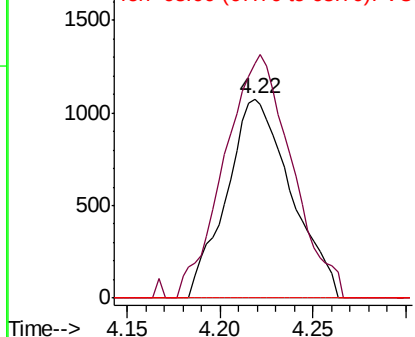


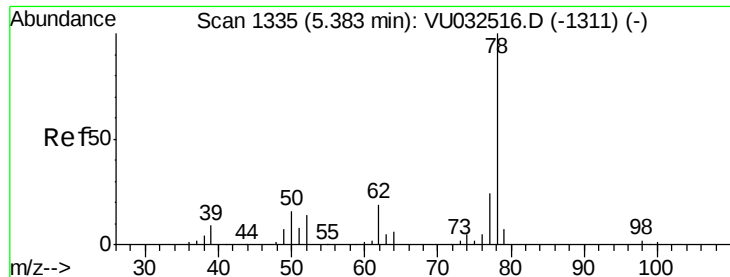
#20
 cis-1,2-Dichloroethene
 Concen: 1.922 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU032523.D
 Acq: 07 Jun 2019 02:07

Tgt Ion: 96 Resp: 2608
 Ion Ratio Lower Upper
 96 100
 61 117.8 87.2 162.0
 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





#33

Benzene

Concen: 10.466 ug/L

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU032523.D

Acq: 07 Jun 2019 02:07

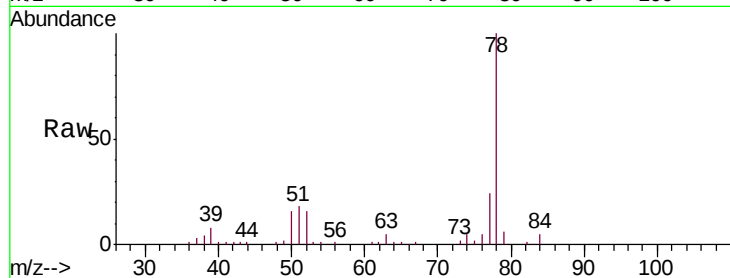
Instrument :

MSVOA_U

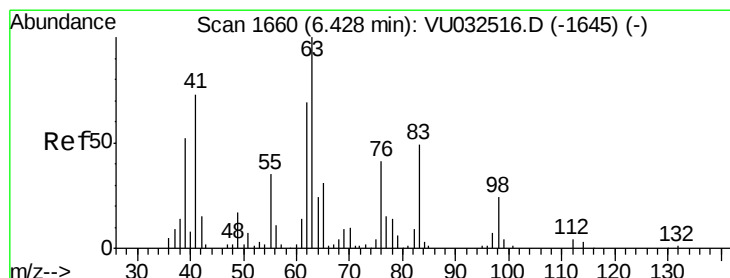
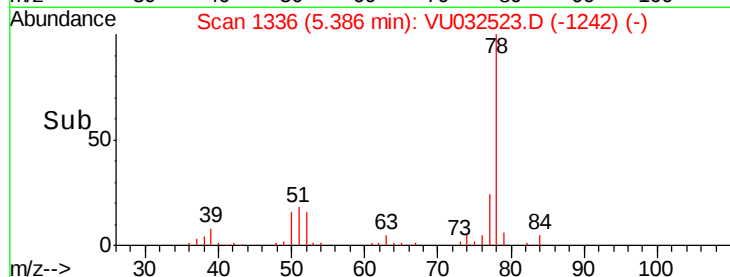
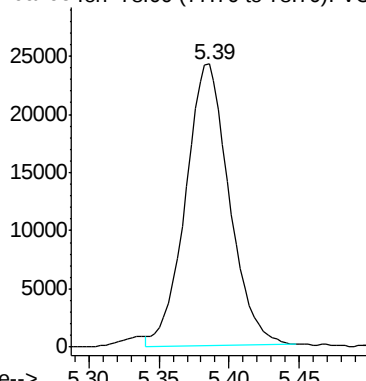
ClientSampleId :

DB8J7

Tgt Ion: 78 Resp: 52462



Abundance Ion 78.00 (77.70 to 78.70): VU0



#37

1,2-Dichloropropane

Concen: 2.204 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU032523.D

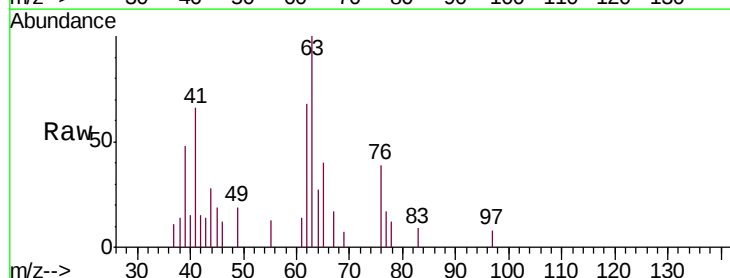
Acq: 07 Jun 2019 02:07

Tgt Ion: 63 Resp: 2928

Ion Ratio Lower Upper

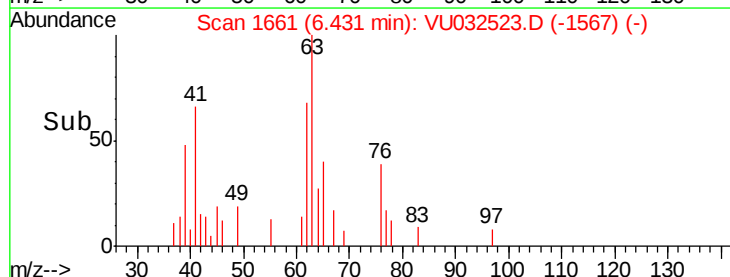
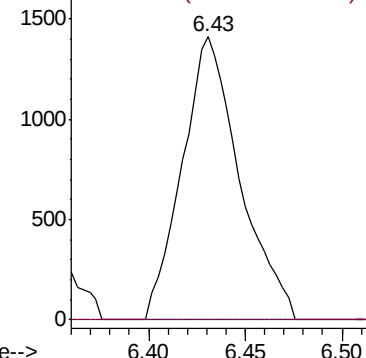
63 100

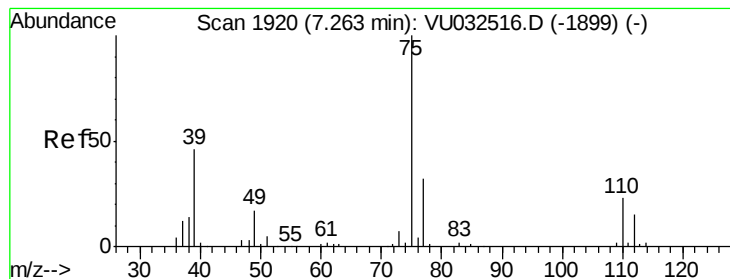
112 0.0 3.1 4.7#



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V



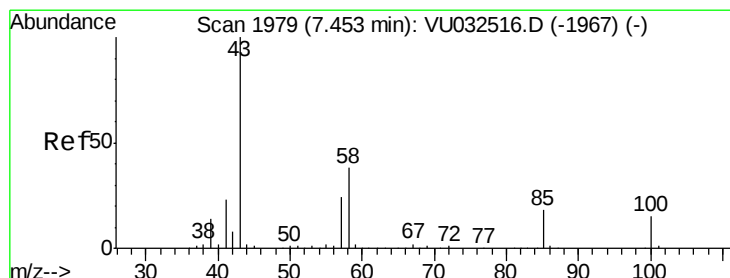
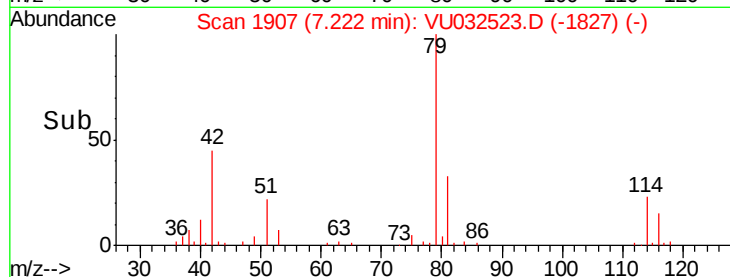
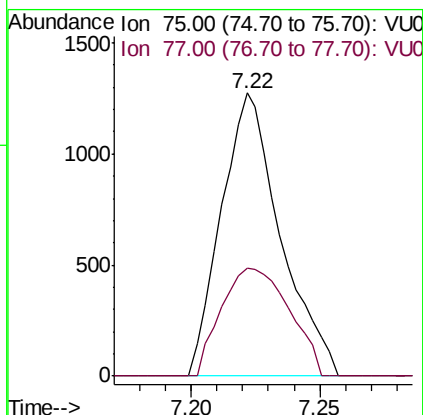
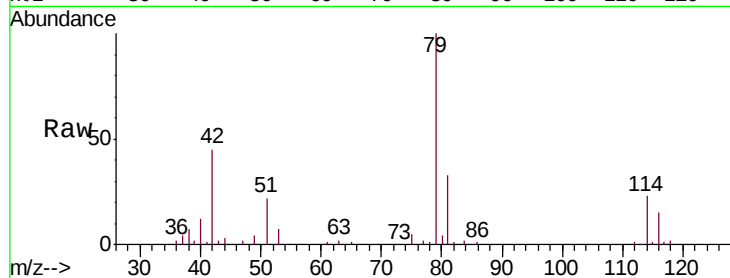


#39

cis-1,3-Dichloropropene
Concen: 0.971 ug/L
RT: 7.22 min Scan# 1907
Delta R.T. -0.04 min
Lab File: VU032523.D
Acq: 07 Jun 2019 02:07

Instrument :
MSVOA_U
ClientSampled :
DB8J7

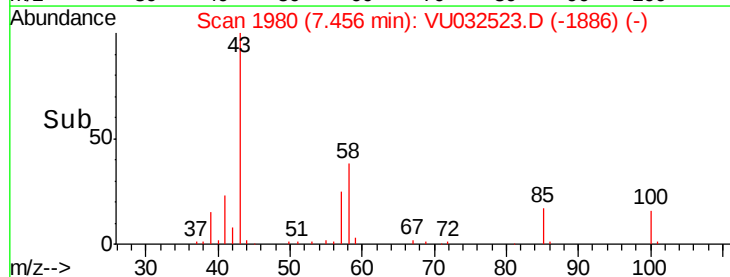
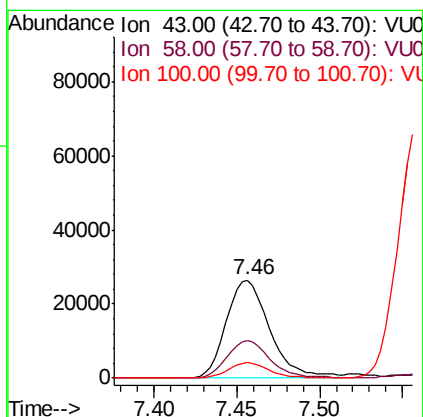
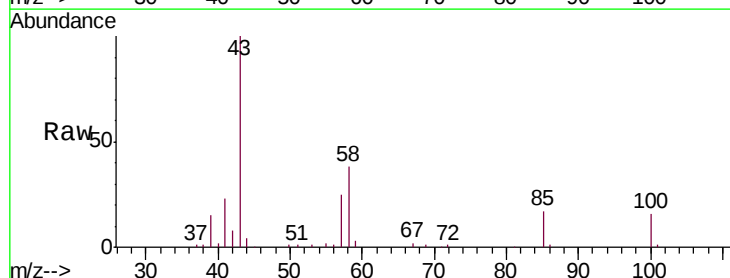
Tgt Ion: 75 Resp: 2035
Ion Ratio Lower Upper
75 100
77 38.1 22.0 41.0

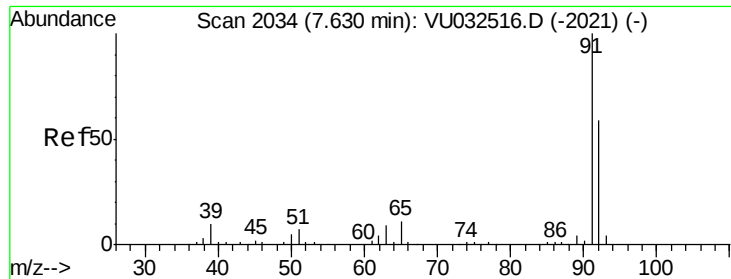


#40

4-Methyl-2-pentanone
Concen: 22.531 ug/L
RT: 7.46 min Scan# 1980
Delta R.T. 0.00 min
Lab File: VU032523.D
Acq: 07 Jun 2019 02:07

Tgt Ion: 43 Resp: 48164
Ion Ratio Lower Upper
43 100
58 38.2 30.8 46.2
100 14.8 12.1 18.1





#42

Toluene

Concen: 13.371 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032523.D

Acq: 07 Jun 2019 02:07

Instrument :

MSVOA_U

ClientSampleId :

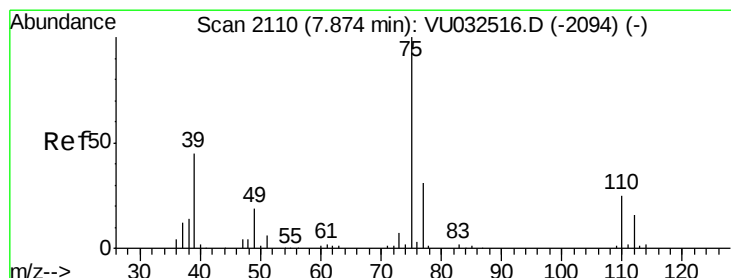
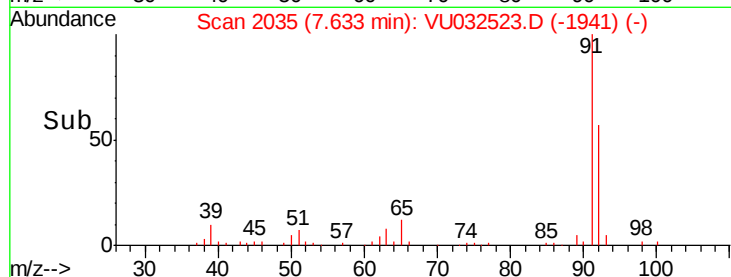
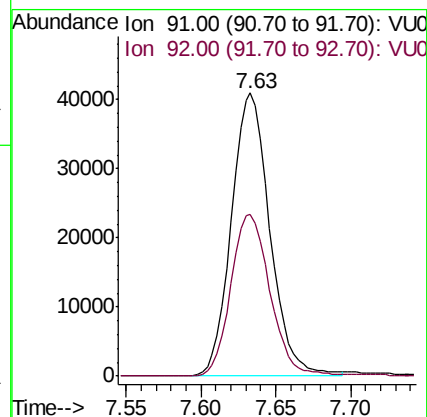
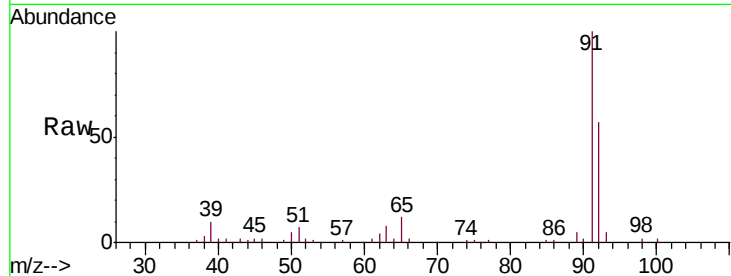
DB8J7

Tgt Ion: 91 Resp: 73401

Ion Ratio Lower Upper

91 100

92 57.1 39.7 73.7



#44

trans-1,3-Dichloropropene

Concen: 0.925 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU032523.D

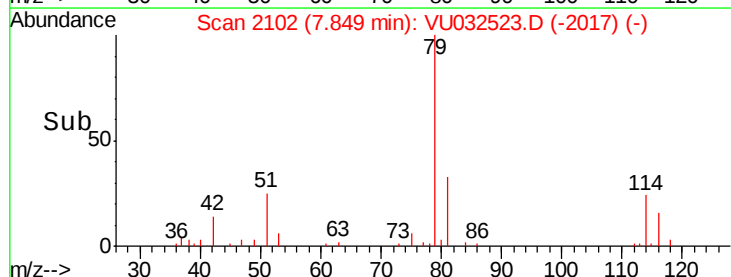
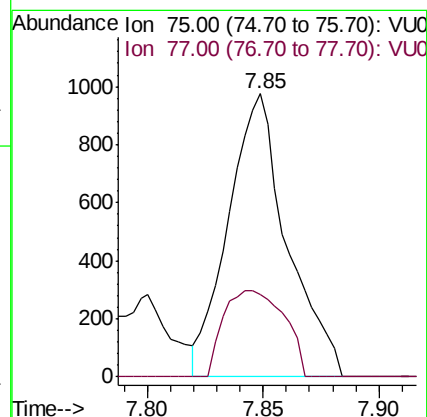
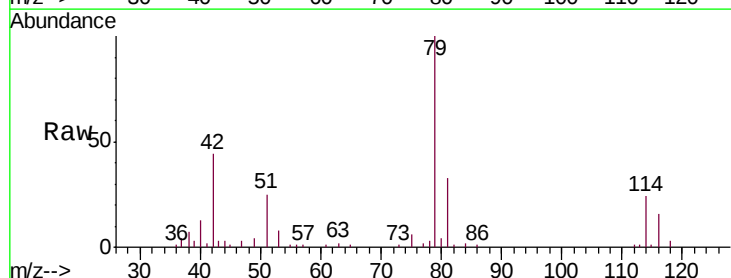
Acq: 07 Jun 2019 02:07

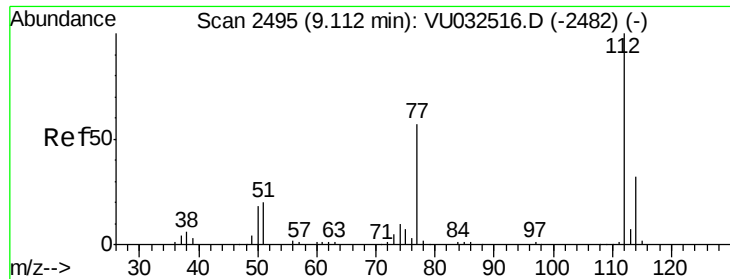
Tgt Ion: 75 Resp: 1721

Ion Ratio Lower Upper

75 100

77 29.2 22.1 41.1

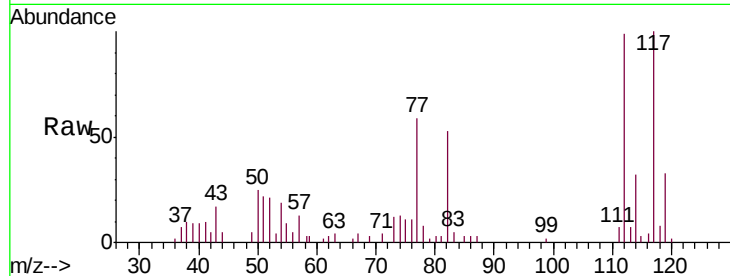




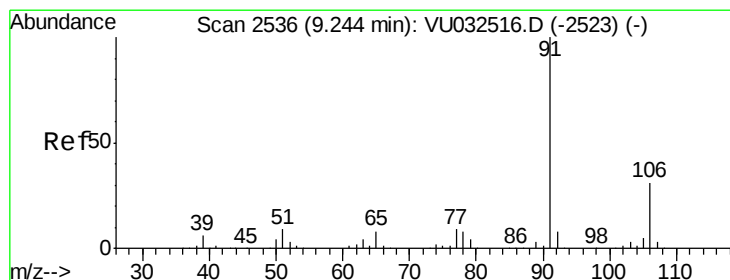
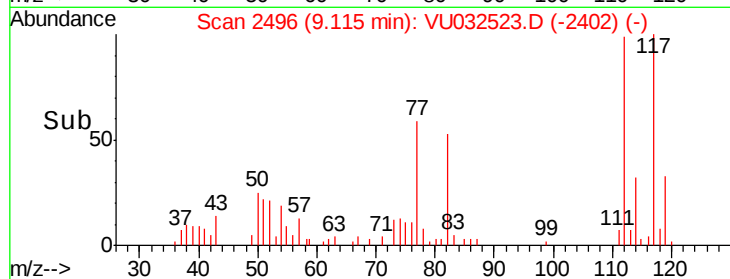
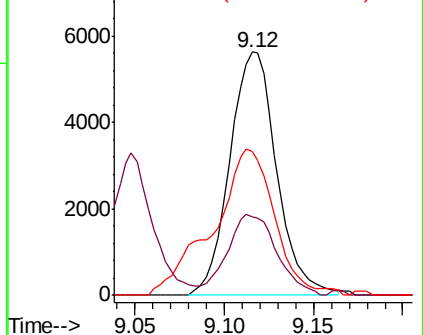
#51
Chlorobenzene
Concen: 2.924 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU032523.D
Acq: 07 Jun 2019 02:07

Instrument :
MSVOA_U
ClientSampleId :
DB8J7

Tgt Ion: 112 Resp: 10340
Ion Ratio Lower Upper
112 100
114 32.3 22.6 42.0
77 59.2 46.1 69.1

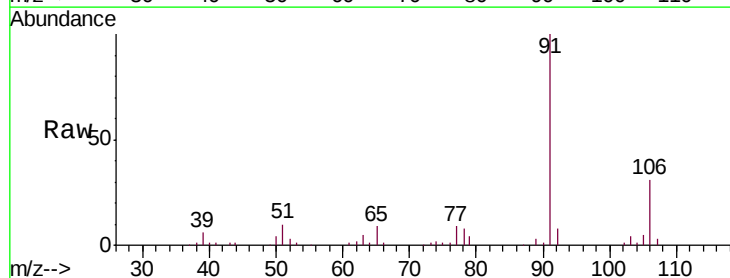


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V

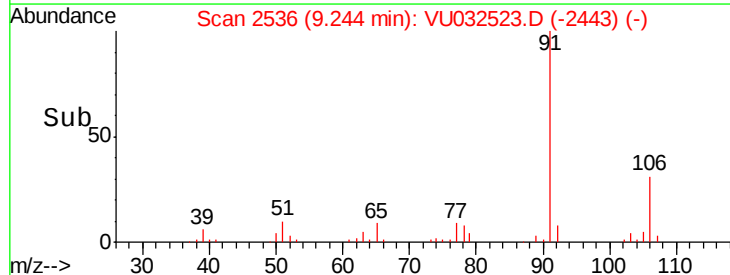
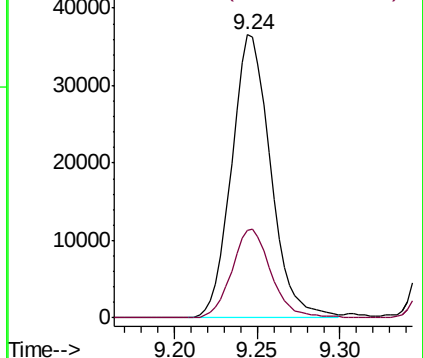


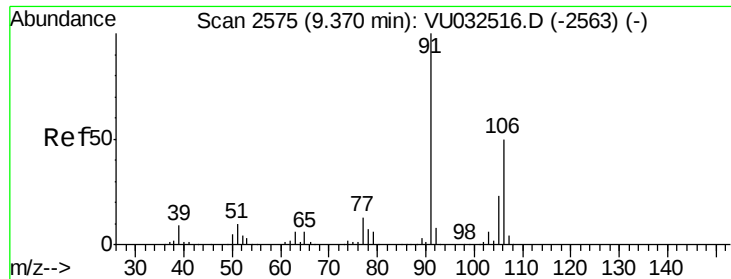
#52
Ethylbenzene
Concen: 9.807 ug/L
RT: 9.24 min Scan# 2536
Delta R.T. -0.00 min
Lab File: VU032523.D
Acq: 07 Jun 2019 02:07

Tgt Ion: 91 Resp: 60008
Ion Ratio Lower Upper
91 100
106 31.2 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 26.392 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU032523.D

Acq: 07 Jun 2019 02:07

Instrument :

MSVOA_U

ClientSampleId :

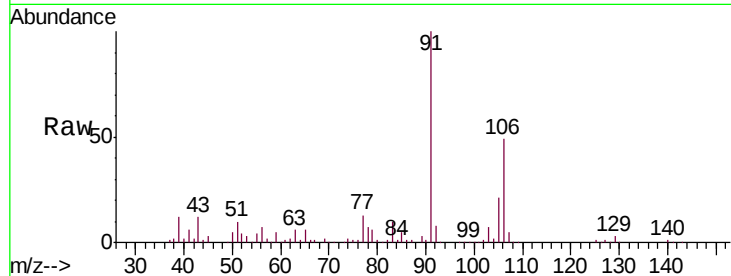
DB8J7

Tgt Ion:106 Resp: 61408

Ion Ratio Lower Upper

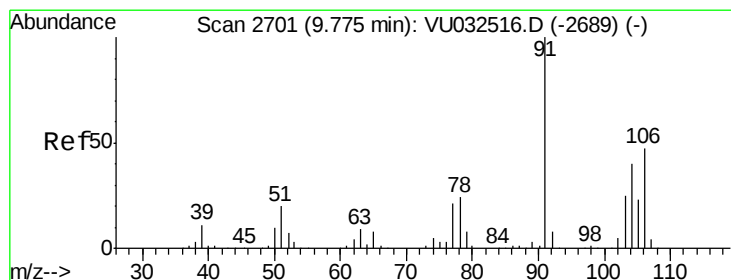
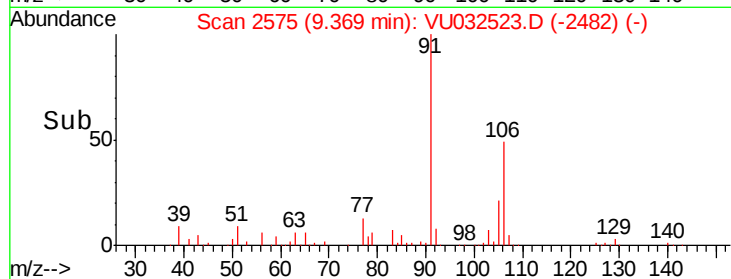
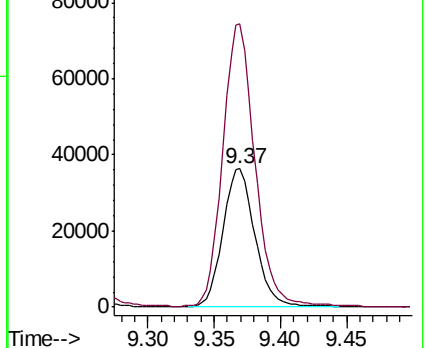
106 100

91 204.8 141.7 263.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 11.951 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU032523.D

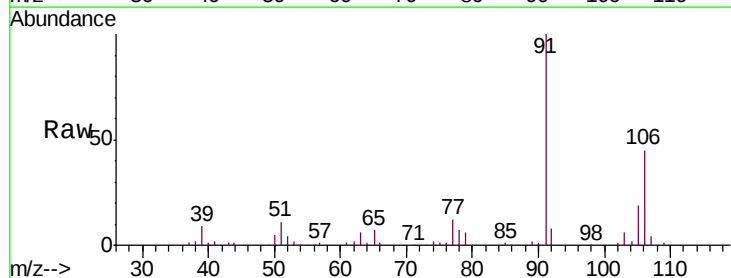
Acq: 07 Jun 2019 02:07

Tgt Ion:106 Resp: 27610

Ion Ratio Lower Upper

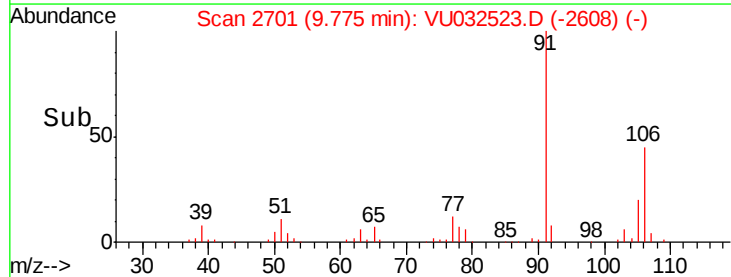
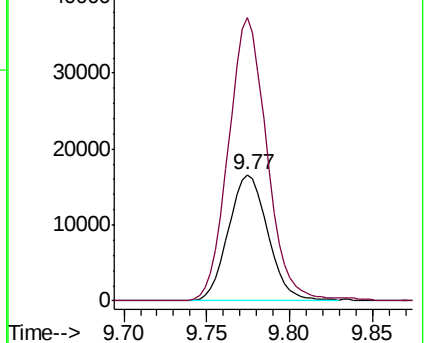
106 100

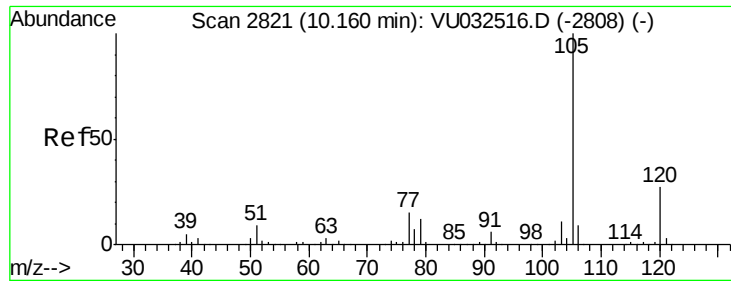
91 224.1 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#56

Isopropylbenzene

Concen: 4.304 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU032523.D

Acq: 07 Jun 2019 02:07

Instrument :

MSVOA_U

ClientSampleId :

DB8J7

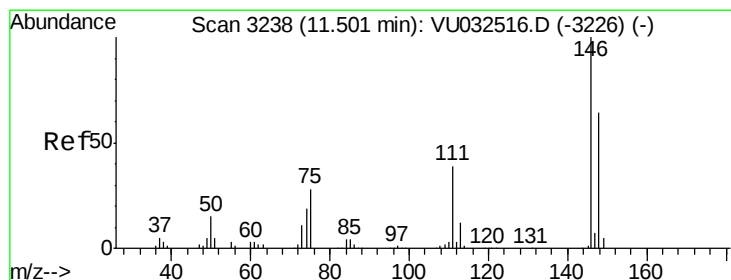
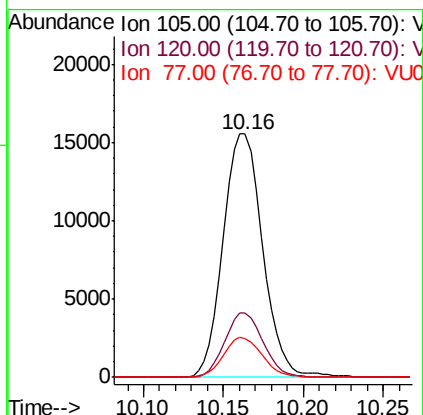
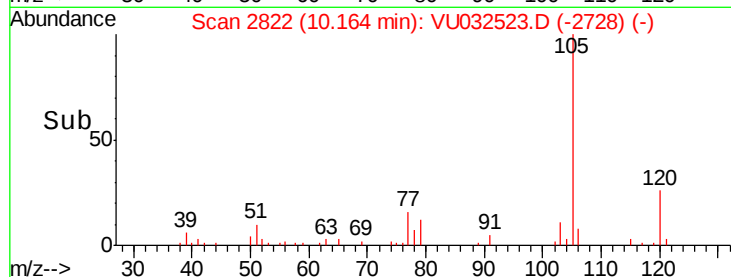
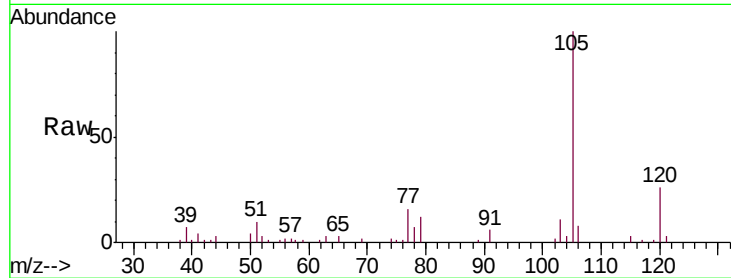
Tgt Ion:105 Resp: 26220

Ion Ratio Lower Upper

105 100

120 25.5 21.6 32.4

77 16.0 12.4 18.6



#63

1,4-Dichlorobenzene

Concen: 0.704 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU032523.D

Acq: 07 Jun 2019 02:07

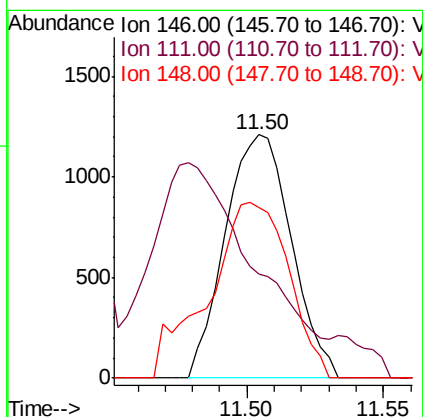
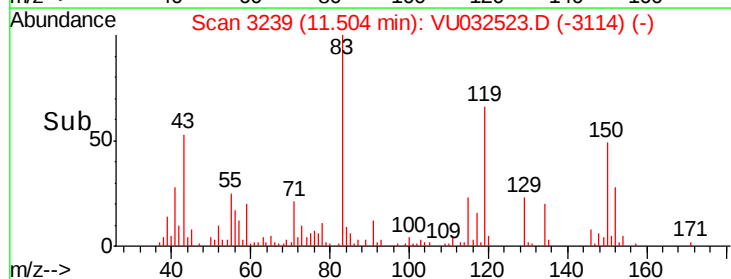
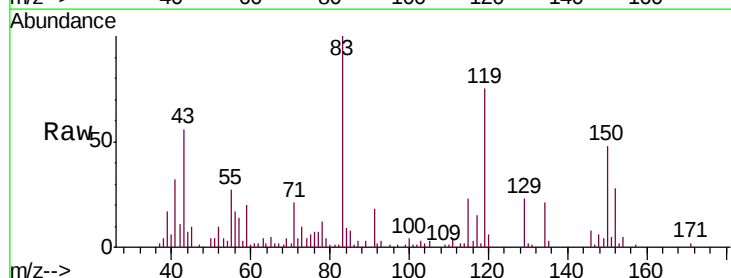
Tgt Ion:146 Resp: 2034

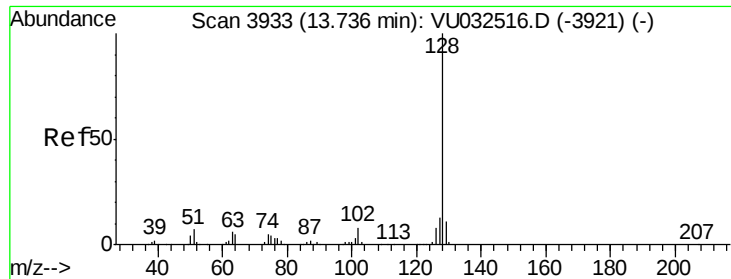
Ion Ratio Lower Upper

146 100

111 42.7 26.6 49.4

148 70.3 44.9 83.5





#69

Naphthalene

Concen: 17.480 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU032523.D

Acq: 07 Jun 2019 02:07

Instrument :

MSVOA_U

ClientSampleId :

DB8J7

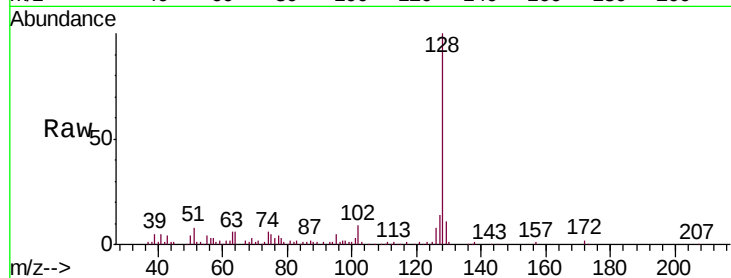
Tgt Ion:128 Resp: 102762

Ion Ratio Lower Upper

128 100

127 12.7 10.4 15.6

129 10.6 8.5 12.7



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

