

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073018\
 Data File : VU025721.D
 Acq On : 30 Jul 2018 14:41
 Operator : MD/SY
 Sample : J4176-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SV26835

Quant Time: Jul 31 03:36:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 28 02:19:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	184849	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	288765	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	286142	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	172773	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	142080	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
35) Dibromofluoromethane	4.89	113	120725	48.07	ug/l	0.00
Spiked Amount			Recovery	=	96.14%	
50) Toluene-d8	7.57	98	421673	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	
62) 4-Bromofluorobenzene	10.31	95	164666	48.27	ug/l	0.00
Spiked Amount			Recovery	=	96.54%	

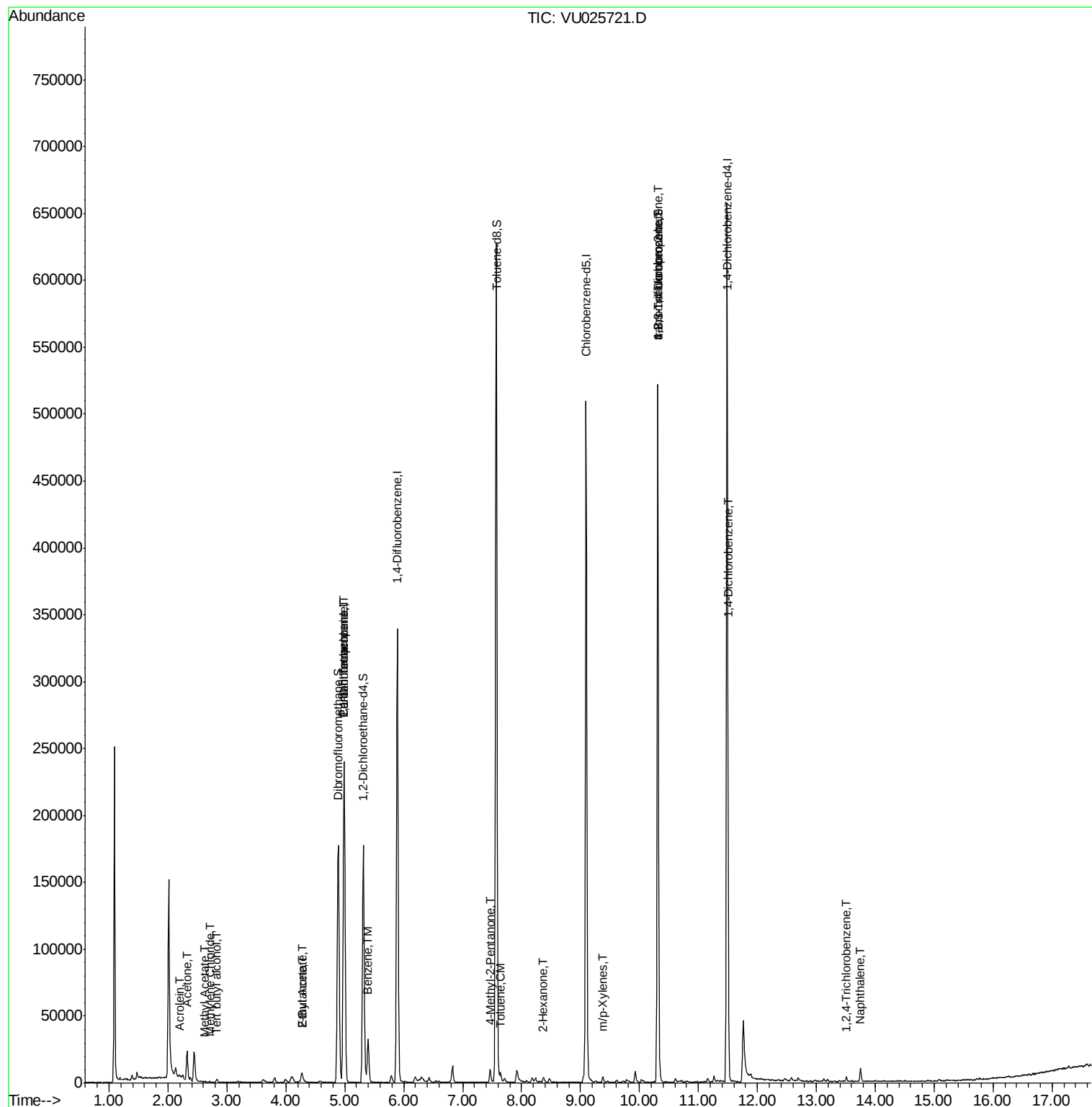
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.82	59	2756	4.37	ug/l #	85
13) Acrolein	2.20	56	547	0.37	ug/l	95
16) Acetone	2.32	43	24158	17.20	ug/l	99
18) Methyl Acetate	2.62	43	729	0.22	ug/l #	52
20) Methylene Chloride	2.71	84	554	0.22	ug/l #	70
25) 2-Butanone	4.27	43	12984	6.79	ug/l	99
31) Cyclohexane	4.99	56	3392	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	12986	3.85	ug/l #	48
37) Ethyl Acetate	4.27	43	12984	3.71	ug/l #	69
38) Carbon Tetrachloride	4.99	117	17094	4.47	ug/l #	16
40) Benzene	5.39	78	30001	3.04	ug/l	96
51) 4-Methyl-2-Pentanone	7.46	43	7115	1.97	ug/l	99
52) Toluene	7.64	92	2266	0.37	ug/l	93
59) 2-Hexanone	8.37	43	3455	1.22	ug/l	85
68) m/p-Xylenes	9.38	106	1365	0.29	ug/l	81
76) 1,2,3-Trichloropropane	10.31	75	85001	22.79	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	85001	61.76	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	1381	0.22	ug/l #	50
93) 1,2,4-Trichlorobenzene	13.51	180	1277	0.32	ug/l	83
95) Naphthalene	13.75	128	9526	1.97	ug/l	99

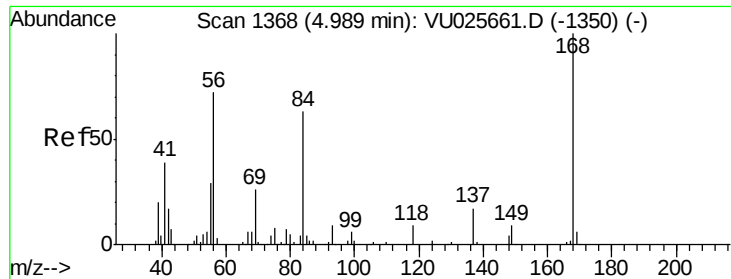
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jul 28 02:19:50 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU025721.D

Acq: 30 Jul 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

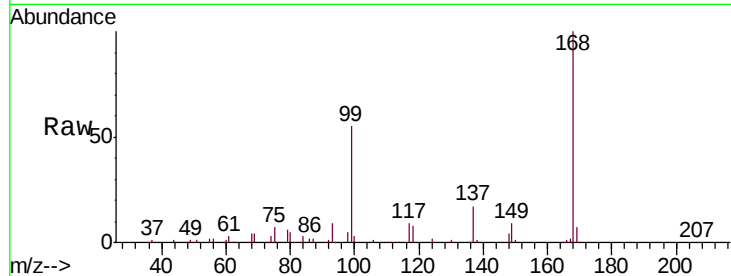
SV26835

Tot Ion:168 Resp: 184849

Ion Ratio Lower Upper

168 100

99 55.5 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025661.D (-1350) (-)

Ion 98.90 (98.60 to 99.60): VU025661.D (-1350) (-)

4.99

80000

60000

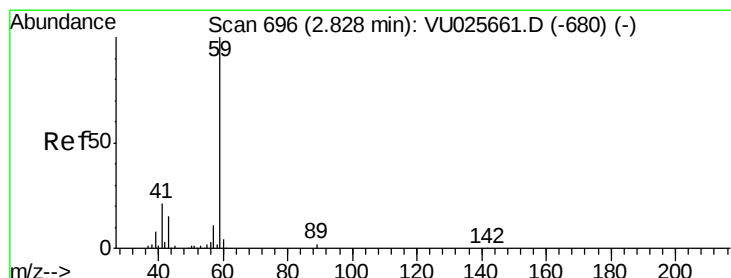
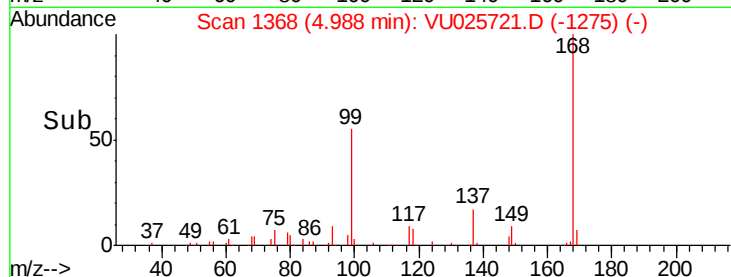
40000

20000

0

4.90 5.00 5.10

Time-->



#11

Tert butyl alcohol

Concen: 4.37 ug/l

RT: 2.82 min Scan# 695

Delta R.T. -0.00 min

Lab File: VU025721.D

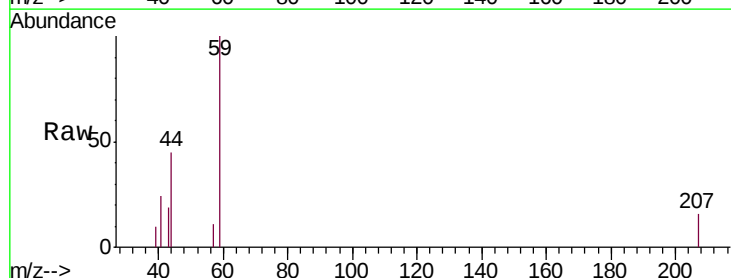
Acq: 30 Jul 2018 14:41

Tgt Ion: 59 Resp: 2756

Ion Ratio Lower Upper

59 100

57 4.8 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VU025661.D (-680) (-)

Ion 57.00 (56.70 to 57.70): VU025661.D (-680) (-)

2.82

1500

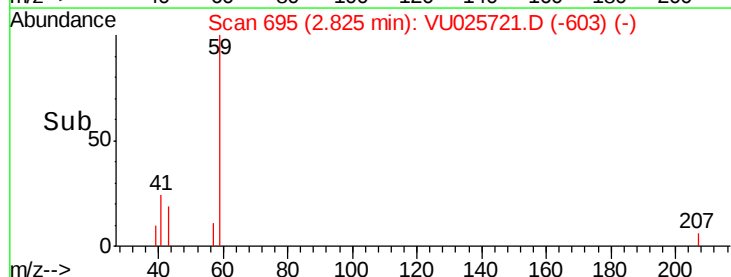
1000

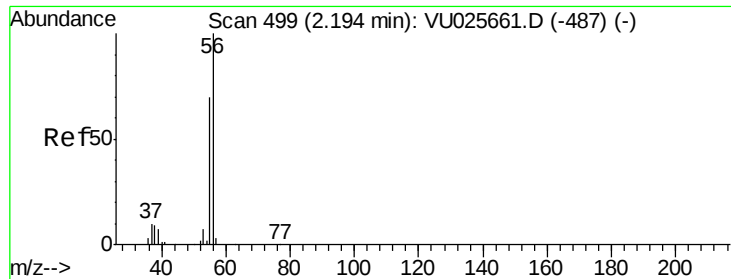
500

0

2.80 2.85

Time-->





#13

Acrolein

Concen: 0.37 ug/l

RT: 2.20 min Scan# 502

Delta R.T. 0.01 min

Lab File: VU025721.D

Acq: 30 Jul 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

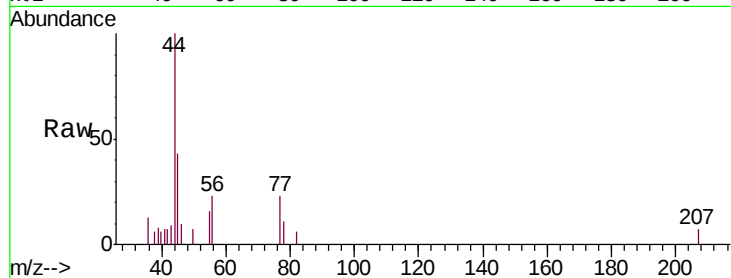
SV26835

Tot Ion: 56 Resp: 547

Ion Ratio Lower Upper

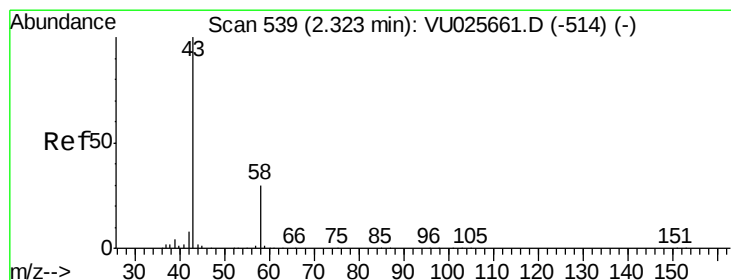
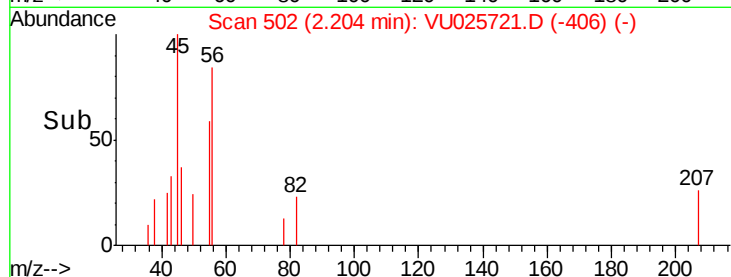
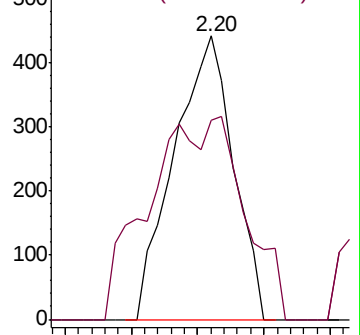
56 100

55 67.1 57.2 85.8



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 17.20 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025721.D

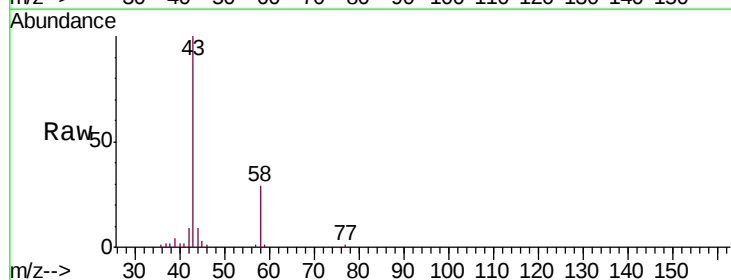
Acq: 30 Jul 2018 14:41

Tgt Ion: 43 Resp: 24158

Ion Ratio Lower Upper

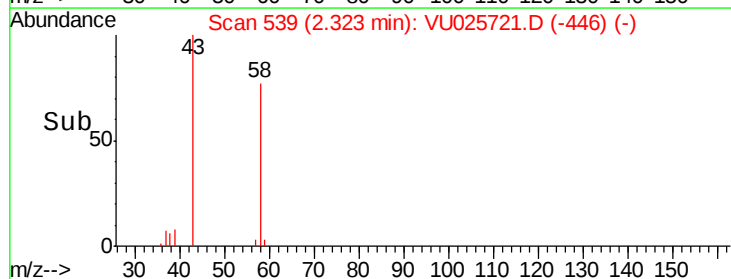
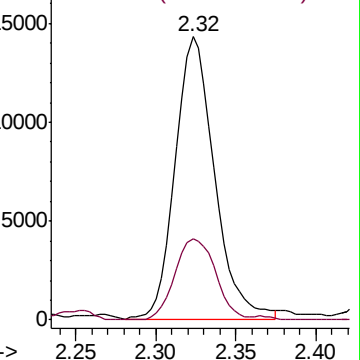
43 100

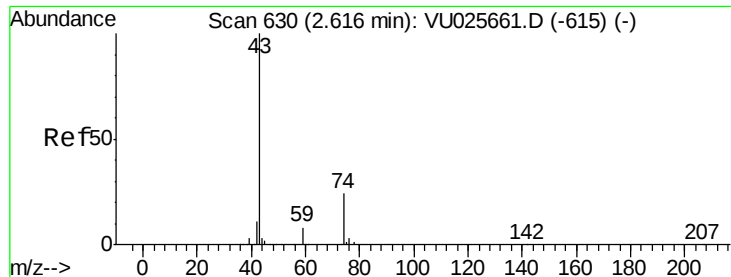
58 28.6 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

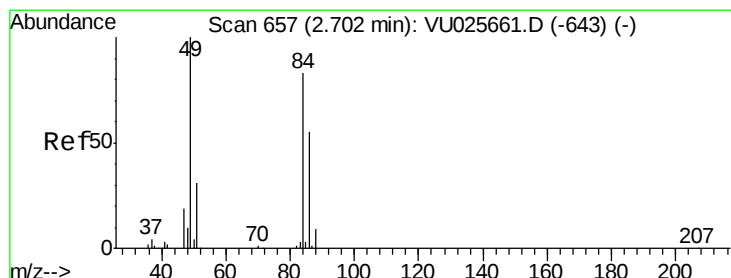
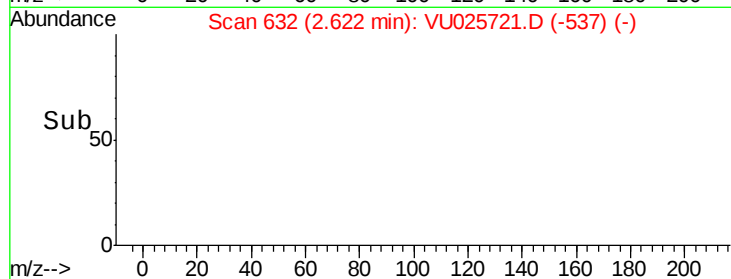
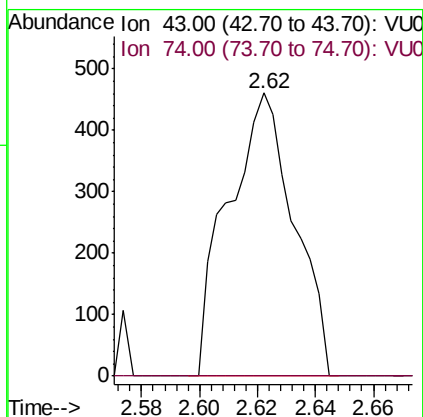
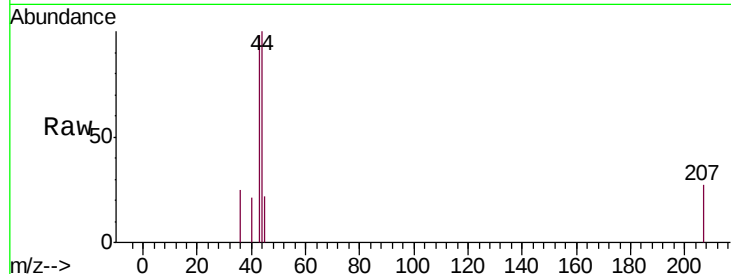




#18
Methyl Acetate
Concen: 0.22 ug/l
RT: 2.62 min Scan# 632
Delta R.T. 0.01 min
Lab File: VU025721.D
Acq: 30 Jul 2018 14:41

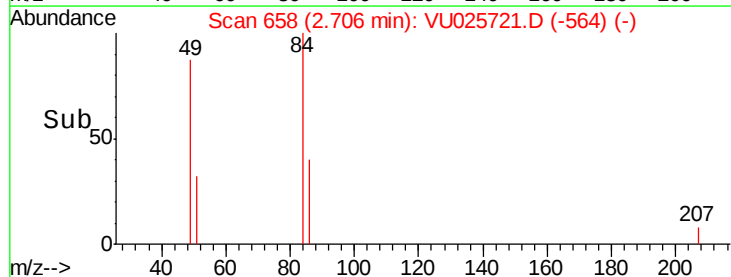
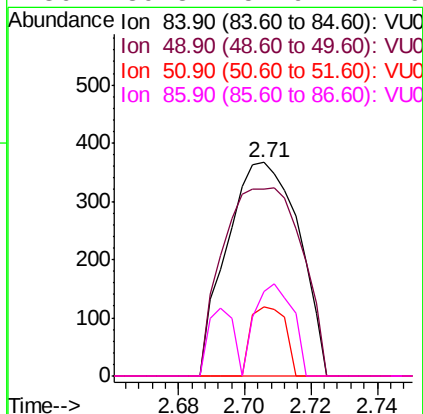
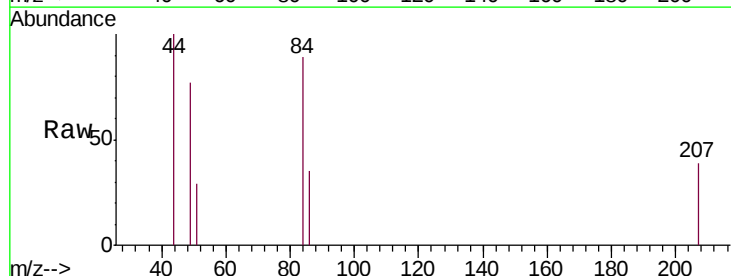
Instrument :
MSVOA_U
ClientSampleId :
SV26835

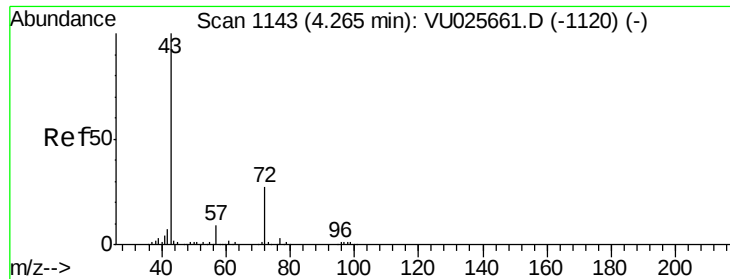
Tot Ion: 43 Resp: 729
Ion Ratio Lower Upper
43 100
74 0.0 18.5 27.7#



#20
Methylene Chloride
Concen: 0.22 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU025721.D
Acq: 30 Jul 2018 14:41

Tgt Ion: 84 Resp: 554
Ion Ratio Lower Upper
84 100
49 87.2 101.8 152.6#
51 32.4 30.8 46.2
86 39.8 51.9 77.9#

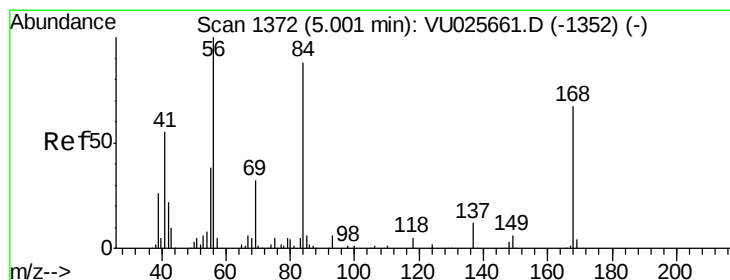
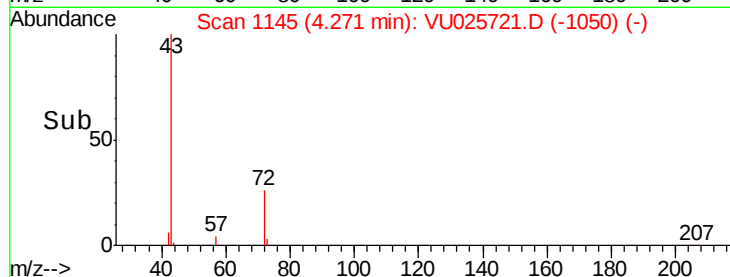
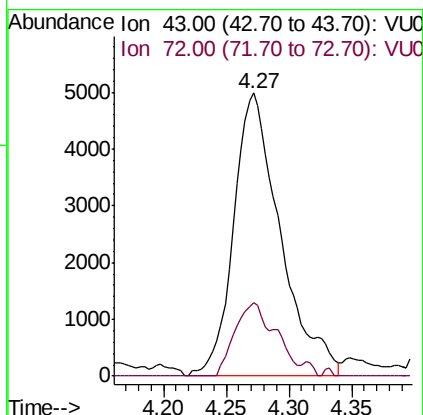
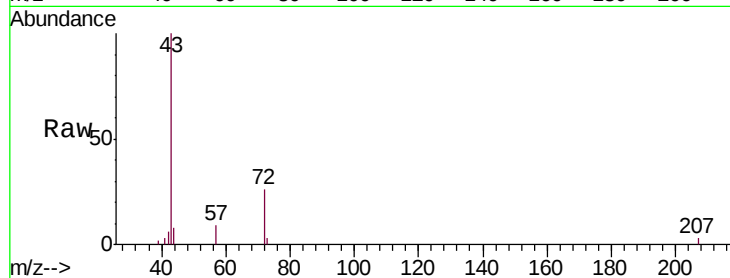




#25
2-Butanone
Concen: 6.79 ug/l
RT: 4.27 min Scan# 1145
Delta R.T. 0.01 min
Lab File: VU025721.D
Acq: 30 Jul 2018 14:41

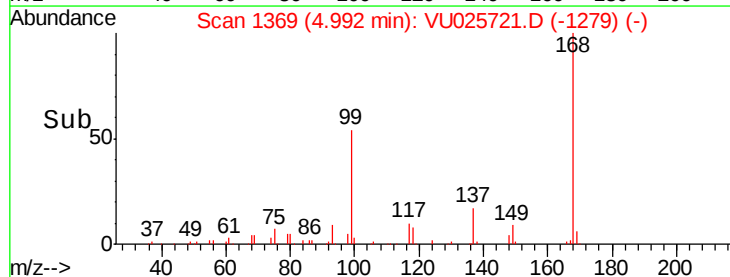
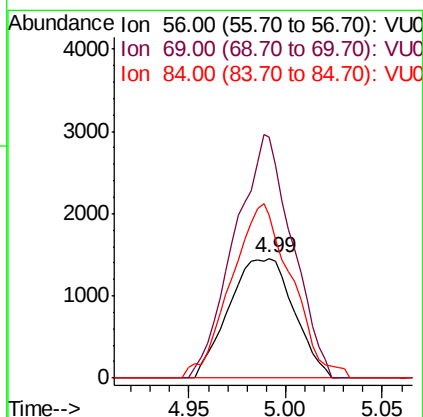
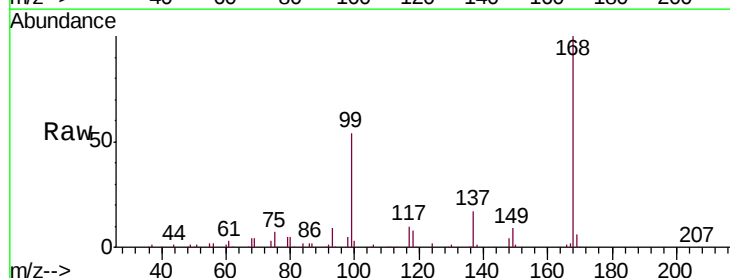
Instrument :
MSVOA_U
ClientSampled :
SV26835

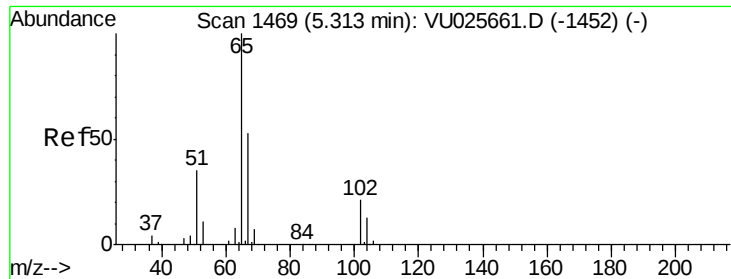
Tot Ion: 43 Resp: 12984
Ion Ratio Lower Upper
43 100
72 25.8 21.0 31.4



#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1369
Delta R.T. -0.01 min
Lab File: VU025721.D
Acq: 30 Jul 2018 14:41

Tgt Ion: 56 Resp: 3392
Ion Ratio Lower Upper
56 100
69 201.0 26.8 40.2#
84 127.2 69.7 104.5#

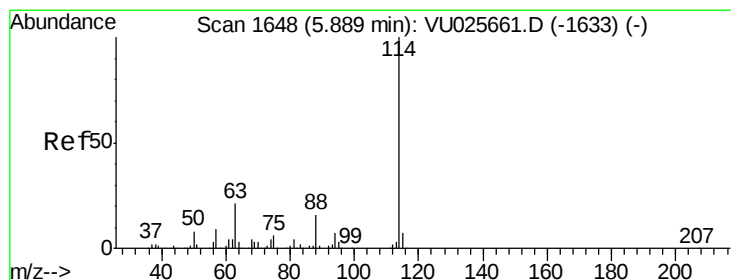
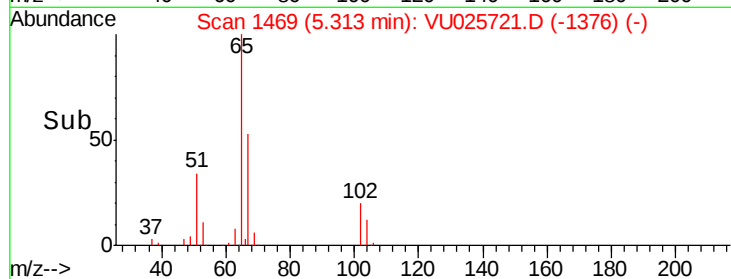
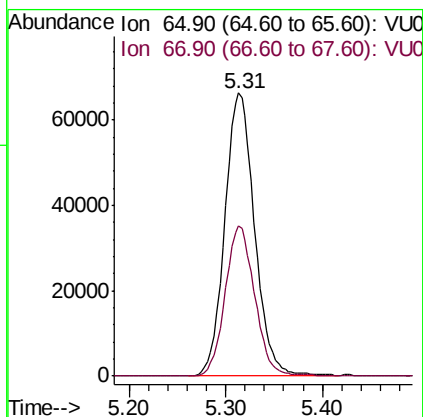
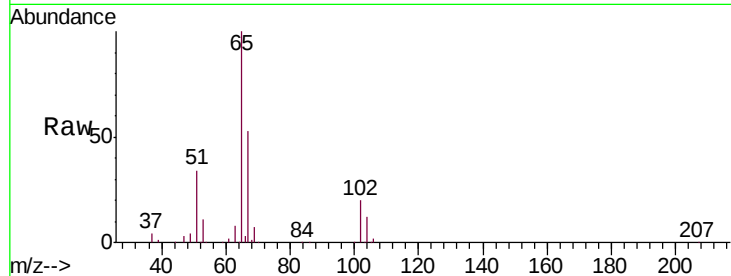




#33
 1,2-Dichloroethane-d4
 Concen: 49.33 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025721.D
 Acq: 30 Jul 2018 14:41

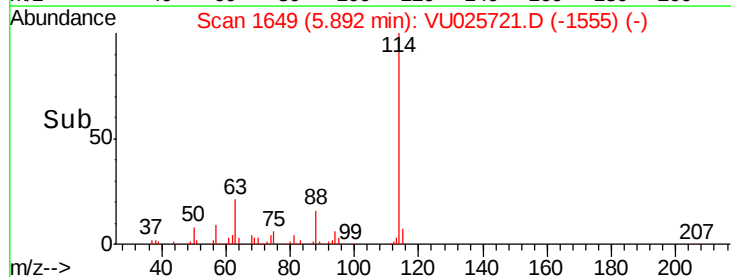
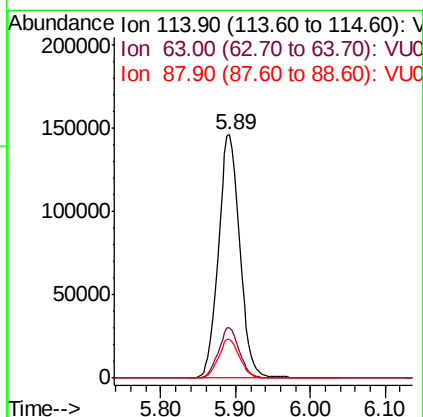
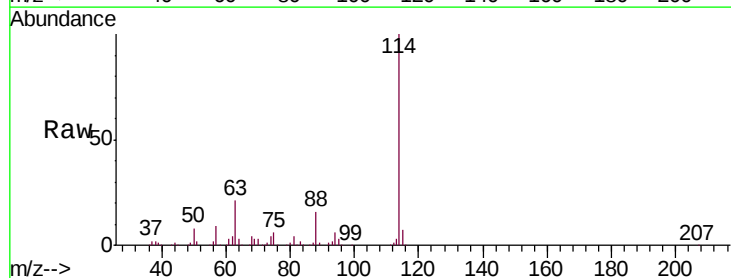
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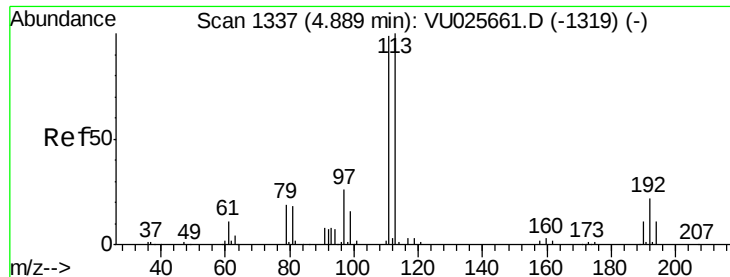
Tot Ion: 65 Resp: 142080
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU025721.D
 Acq: 30 Jul 2018 14:41

Tgt Ion: 114 Resp: 288765
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 41.6
 88 15.8 0.0 32.4

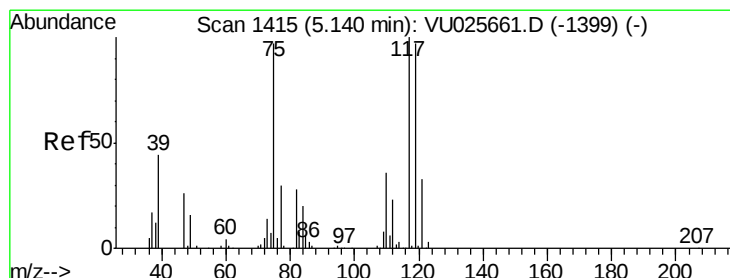
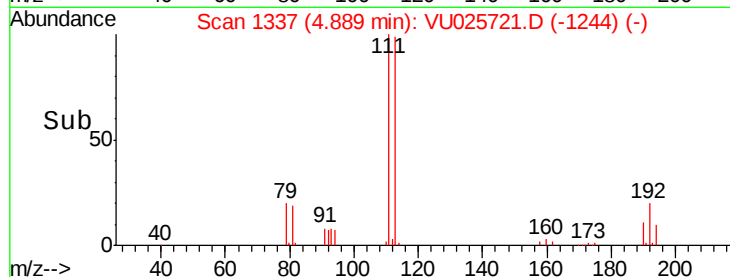
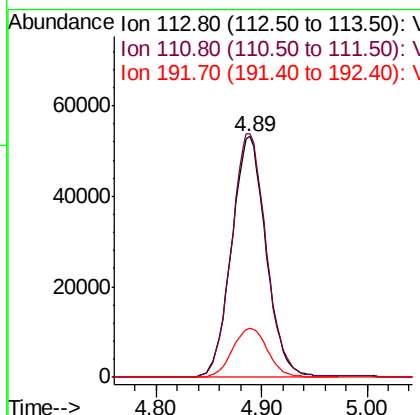
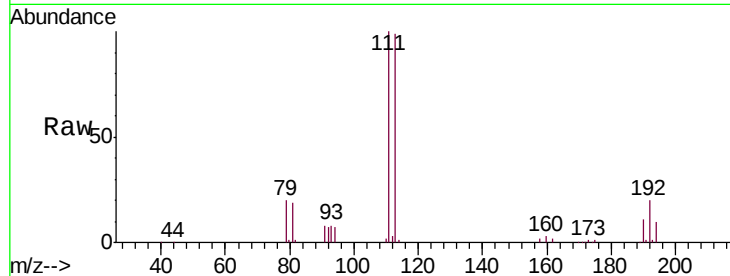




#35
 Dibromofluoromethane
 Concen: 48.07 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025721.D
 Acq: 30 Jul 2018 14:41

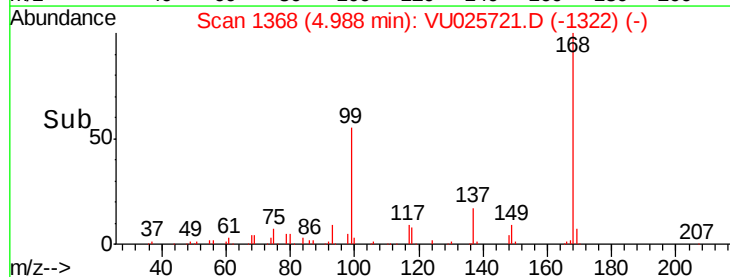
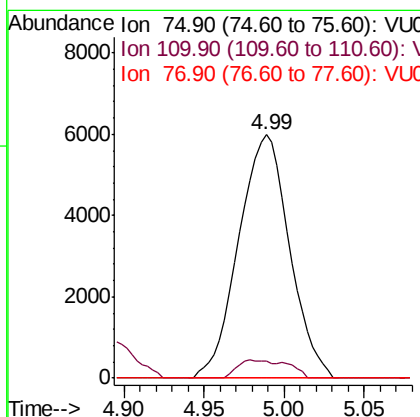
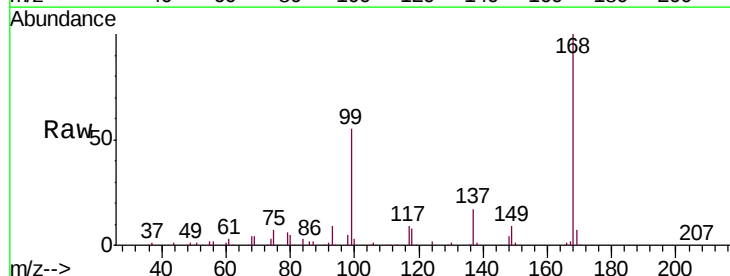
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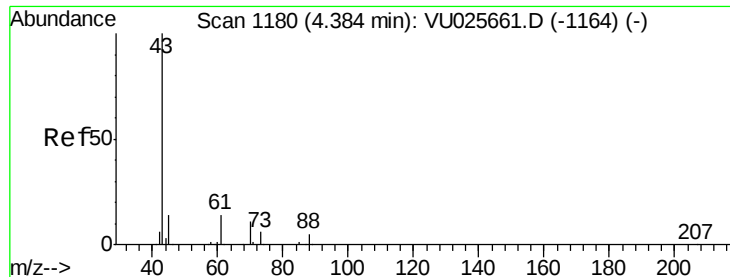
Tot Ion:113 Resp: 120725
 Ion Ratio Lower Upper
 113 100
 111 101.4 81.7 122.5
 192 20.8 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 3.85 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025721.D
 Acq: 30 Jul 2018 14:41

Tgt Ion: 75 Resp: 12986
 Ion Ratio Lower Upper
 75 100
 110 7.4 17.6 52.9#
 77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 3.71 ug/l

RT: 4.27 min Scan# 1145

Delta R.T. -0.11 min

Lab File: VU025721.D

Acq: 30 Jul 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

SV26835

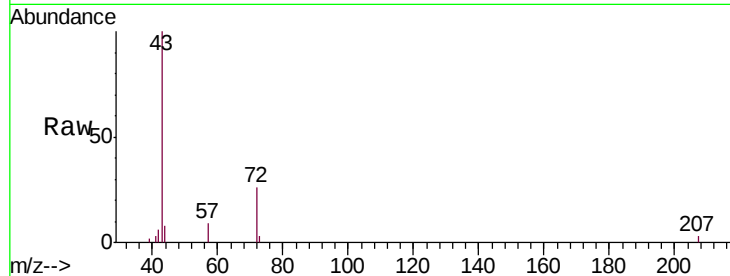
Tot Ion: 43 Resp: 12984

Ion Ratio Lower Upper

43 100

61 0.0 10.7 16.1#

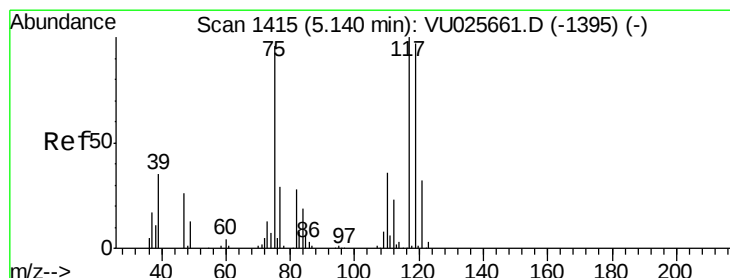
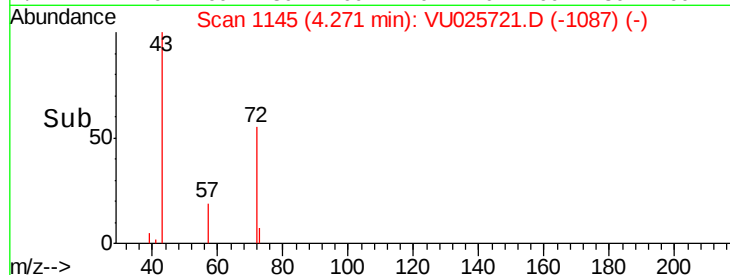
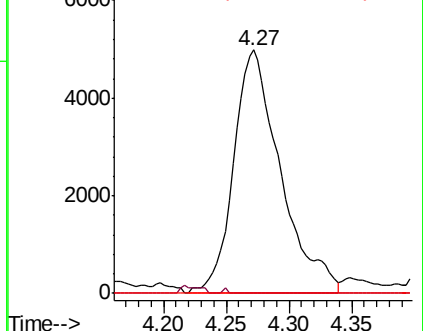
70 0.0 8.4 12.6#



Abundance Ion 43.00 (42.70 to 43.70): VU025721.D (-1145) (-)

Ion 60.90 (60.60 to 61.60): VU025721.D (-1145) (-)

Ion 70.00 (69.70 to 70.70): VU025721.D (-1145) (-)



#38

Carbon Tetrachloride

Concen: 4.47 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. -0.15 min

Lab File: VU025721.D

Acq: 30 Jul 2018 14:41

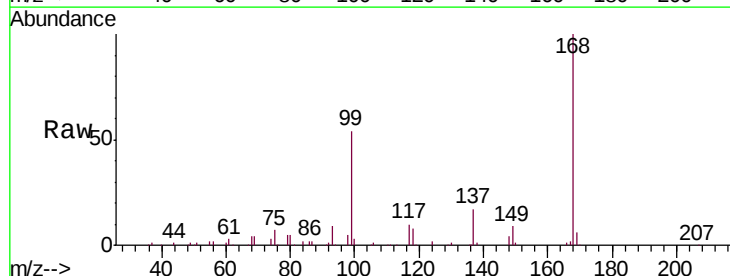
Tgt Ion: 117 Resp: 17094

Ion Ratio Lower Upper

117 100

119 4.7 75.7 113.5#

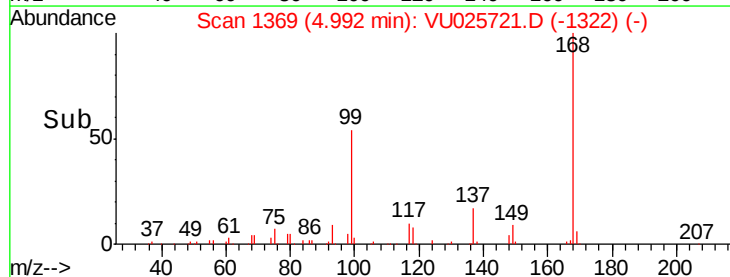
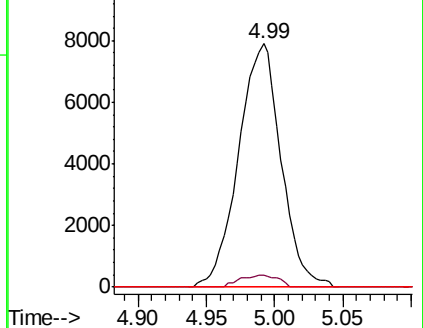
121 0.0 24.6 36.8#

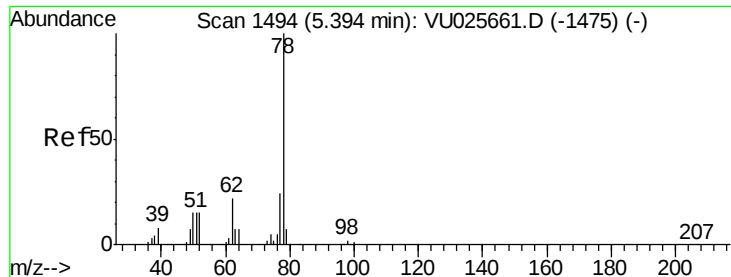


Abundance Ion 116.80 (116.50 to 117.50): VU025721.D (-1369) (-)

Ion 118.80 (118.50 to 119.50): VU025721.D (-1369) (-)

Ion 120.80 (120.50 to 121.50): VU025721.D (-1369) (-)





#40

Benzene

Concen: 3.04 ug/l

RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VU025721.D

Acq: 30 Jul 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

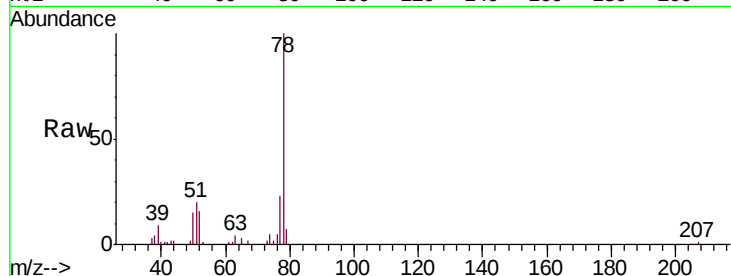
SV26835

Tot Ion: 78 Resp: 30001

Ion Ratio Lower Upper

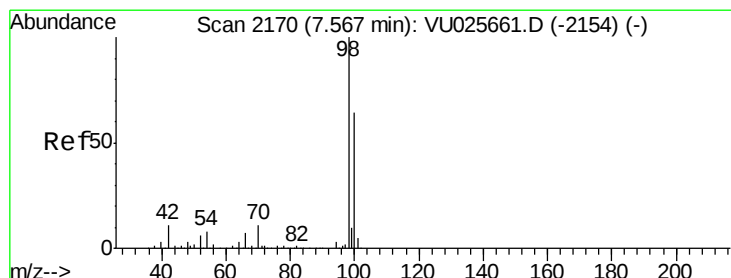
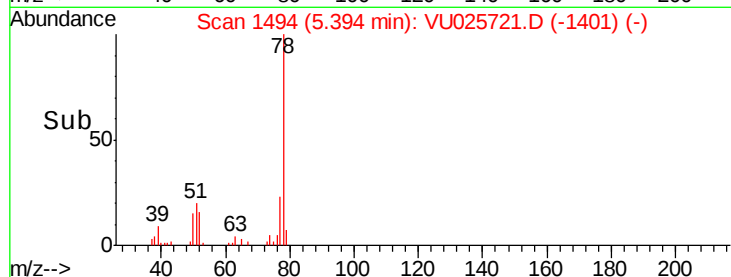
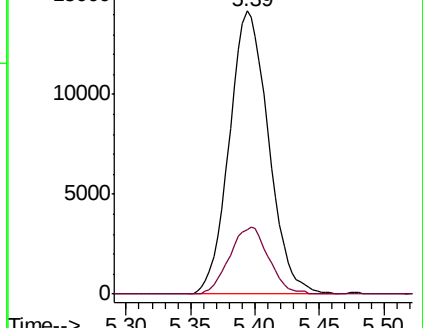
78 100

77 22.9 19.8 29.6



Abundance Ion 78.00 (77.70 to 78.70): VU025661.D (-1475) (-)

Ion 77.00 (76.70 to 77.70): VU025661.D (-1475) (-)



#50

Toluene-d8

Concen: 47.98 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025721.D

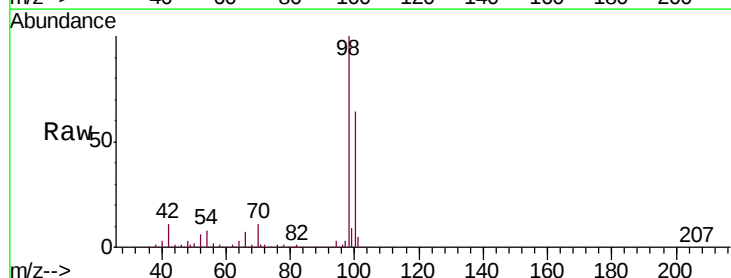
Acq: 30 Jul 2018 14:41

Tgt Ion: 98 Resp: 421673

Ion Ratio Lower Upper

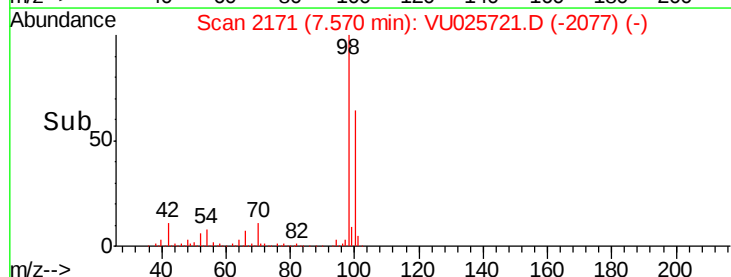
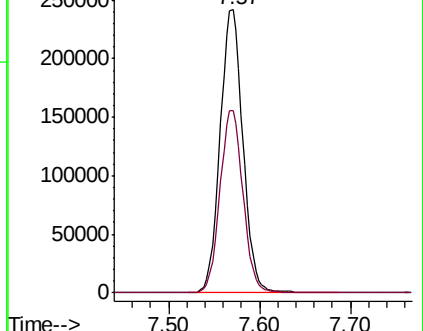
98 100

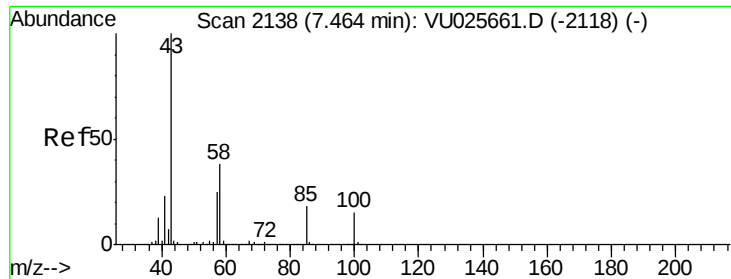
100 64.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU025661.D (-2154) (-)

Ion 100.00 (99.70 to 100.70): VU025661.D (-2154) (-)





#51

4-Methyl-2-Pentanone

Concen: 1.97 ug/l

RT: 7.46 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU025721.D

Acq: 30 Jul 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

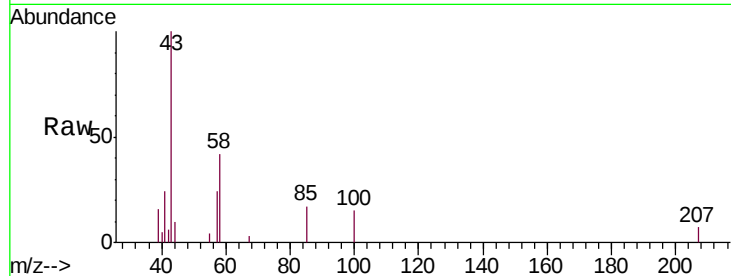
SV26835

Tot Ion: 43 Resp: 7115

Ion Ratio Lower Upper

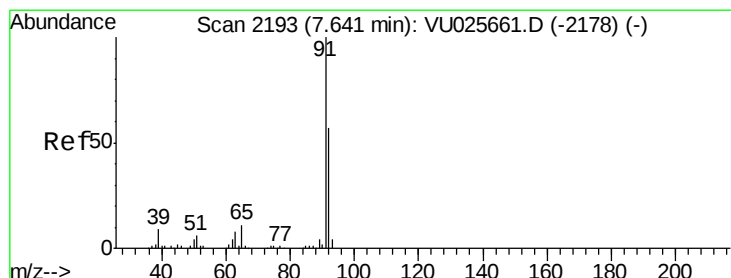
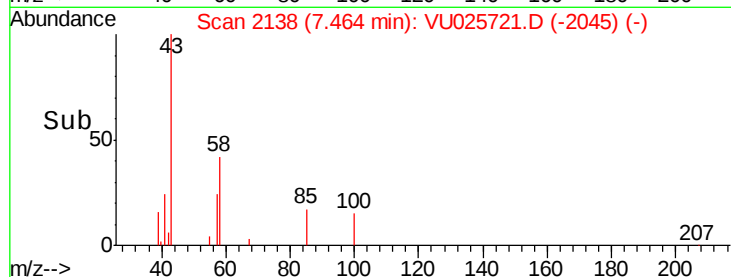
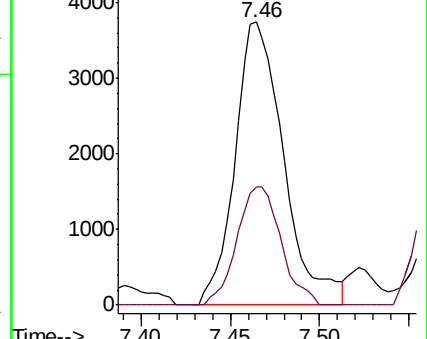
43 100

58 37.8 31.0 46.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#52

Toluene

Concen: 0.37 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU025721.D

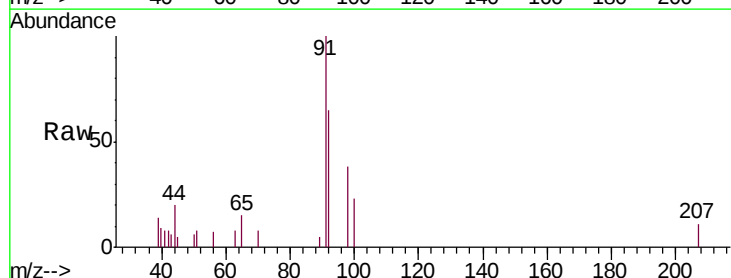
Acq: 30 Jul 2018 14:41

Tgt Ion: 92 Resp: 2266

Ion Ratio Lower Upper

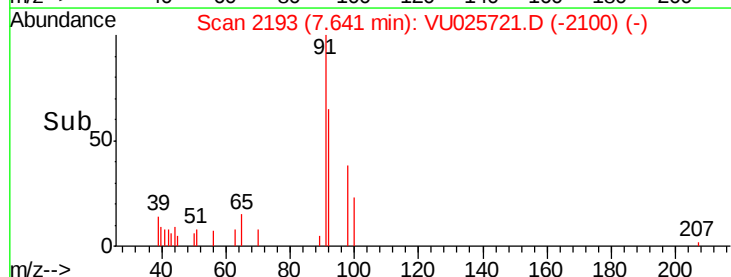
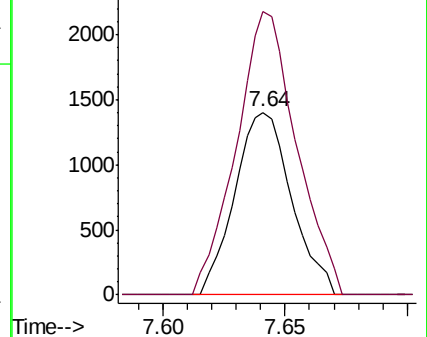
92 100

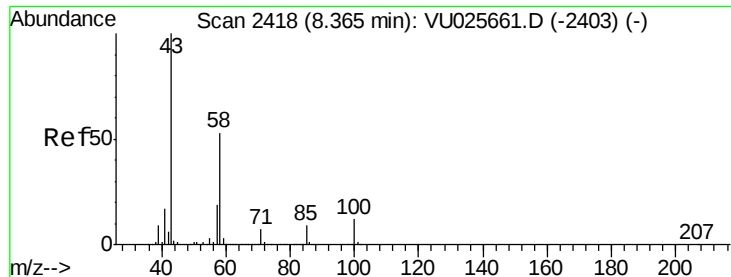
91 164.3 139.2 208.8



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0

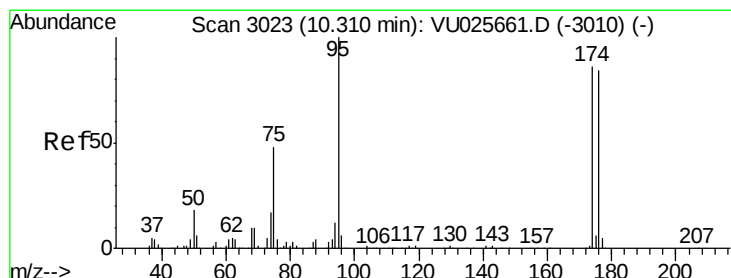
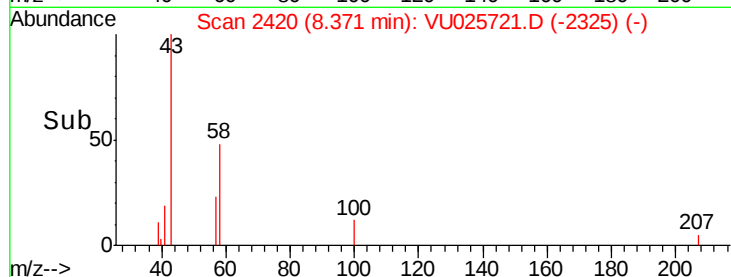
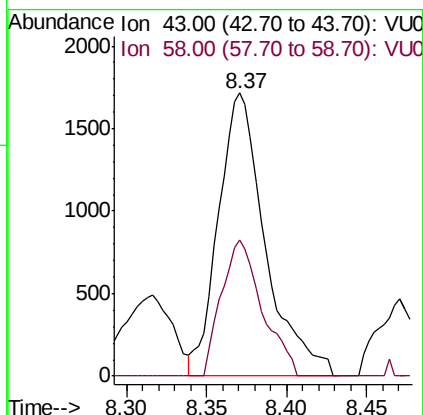
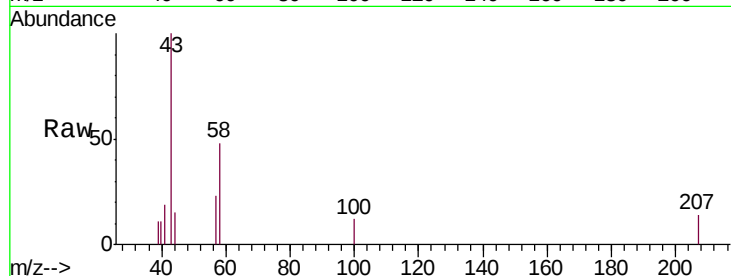




#59
2-Hexanone
Concen: 1.22 ug/l
RT: 8.37 min Scan# 2420
Delta R.T. 0.01 min
Lab File: VU025721.D
Acq: 30 Jul 2018 14:41

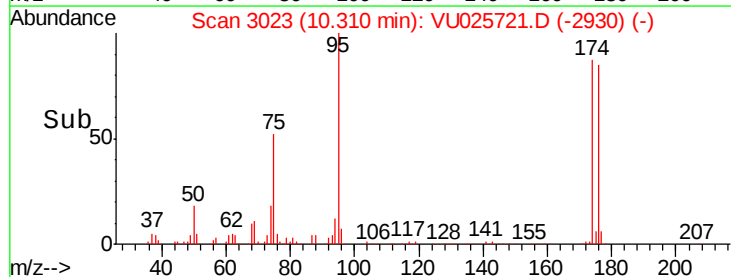
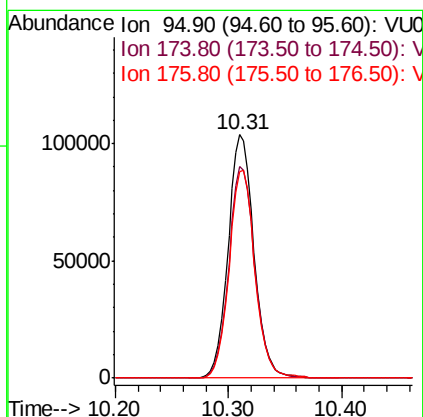
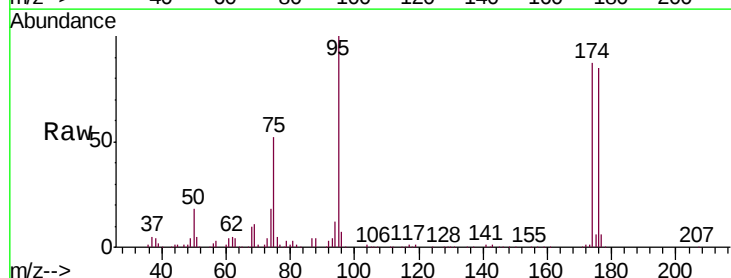
Instrument :
MSVOA_U
ClientSampleId :
SV26835

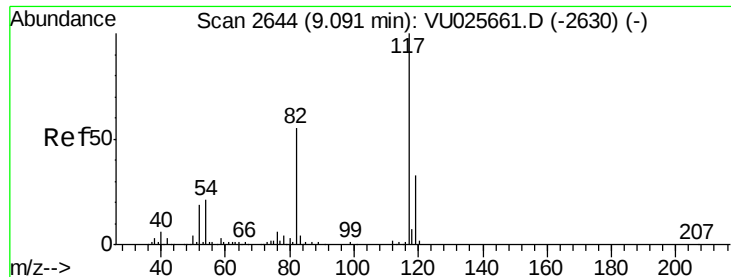
Tot Ion: 43 Resp: 3455
Ion Ratio Lower Upper
43 100
58 41.7 26.2 78.5



#62
4-Bromofluorobenzene
Concen: 48.27 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025721.D
Acq: 30 Jul 2018 14:41

Tgt Ion: 95 Resp: 164666
Ion Ratio Lower Upper
95 100
174 87.8 0.0 172.2
176 85.8 0.0 162.6

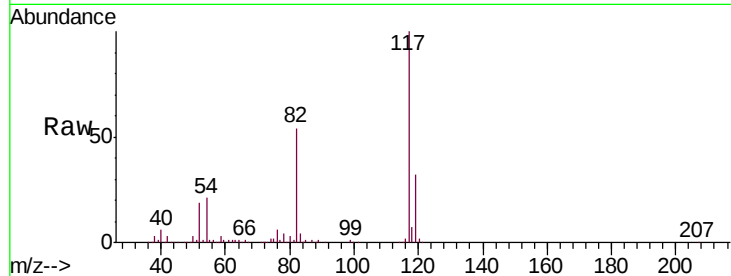




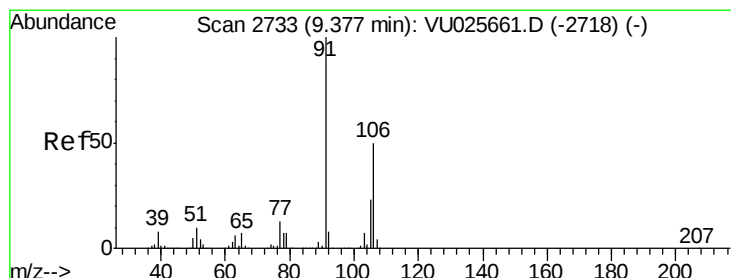
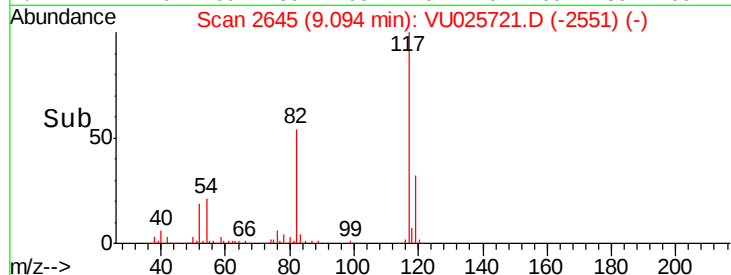
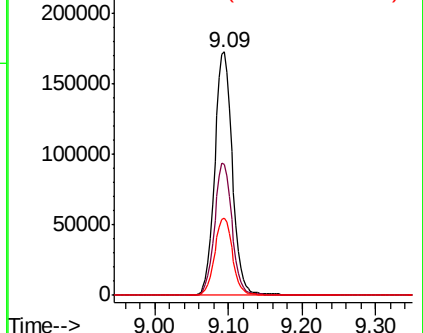
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025721.D
Acq: 30 Jul 2018 14:41

Instrument :
MSVOA_U
ClientSampleId :
SV26835

Tot Ion:117 Resp: 286142
Ion Ratio Lower Upper
117 100
82 54.0 46.0 69.0
119 31.9 26.0 39.0

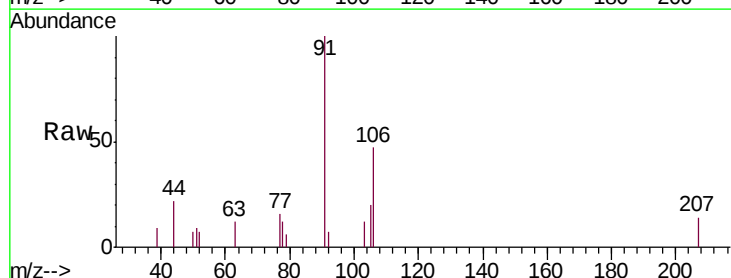


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

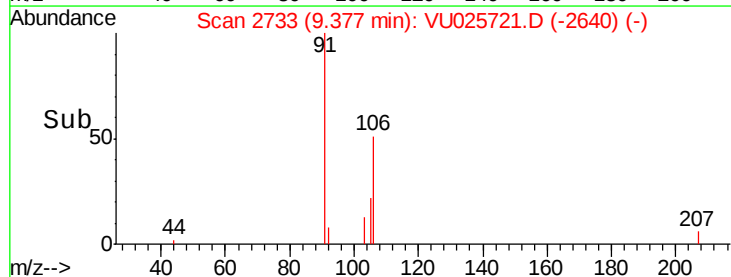
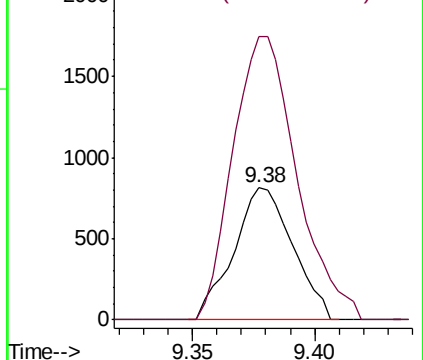


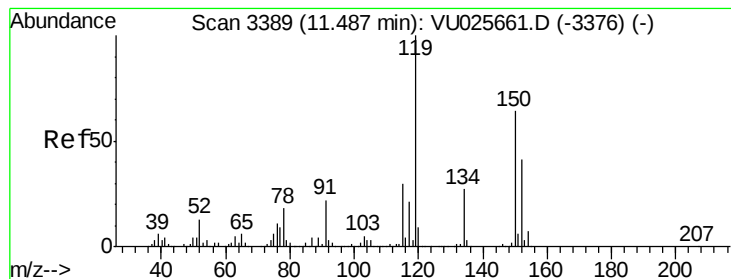
#68
m/p-Xylenes
Concen: 0.29 ug/l
RT: 9.38 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU025721.D
Acq: 30 Jul 2018 14:41

Tgt Ion:106 Resp: 1365
Ion Ratio Lower Upper
106 100
91 232.6 162.3 243.5



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025721.D

Acq: 30 Jul 2018 14:41

Instrument :

MSVOA_U

ClientSampleId :

SV26835

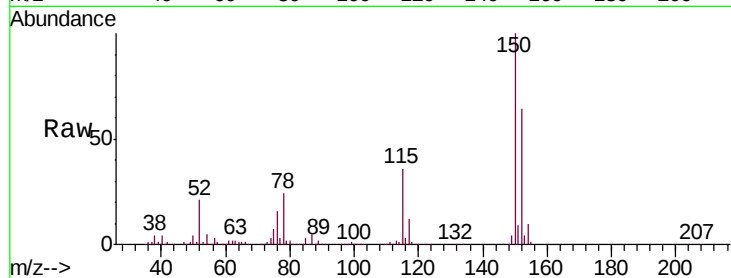
Tot Ion:152 Resp: 172773

Ion Ratio Lower Upper

152 100

115 56.4 40.1 120.3

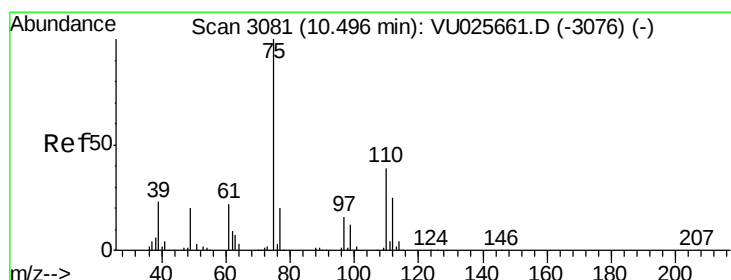
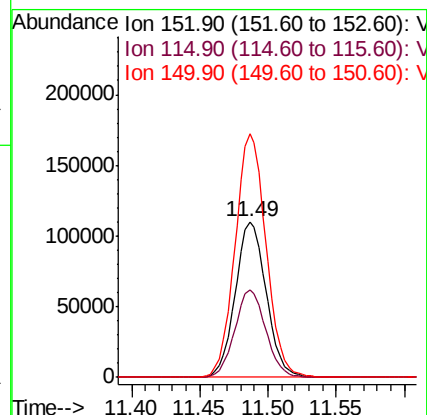
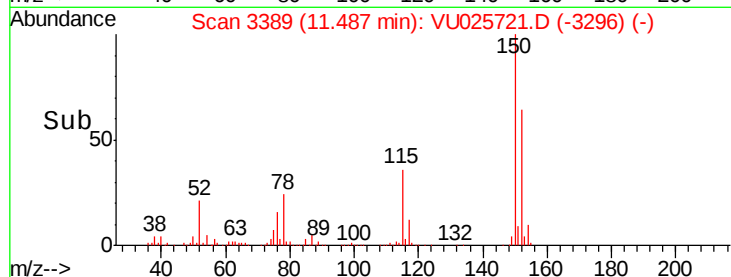
150 157.0 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.79 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025721.D

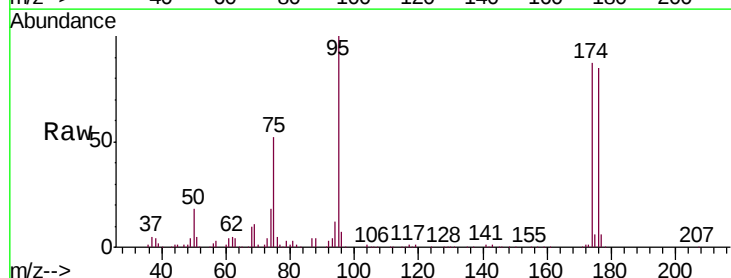
Acq: 30 Jul 2018 14:41

Tgt Ion: 75 Resp: 85001

Ion Ratio Lower Upper

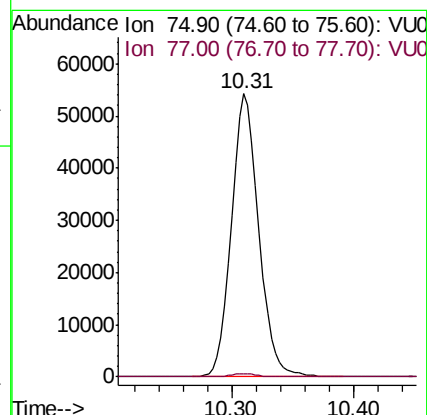
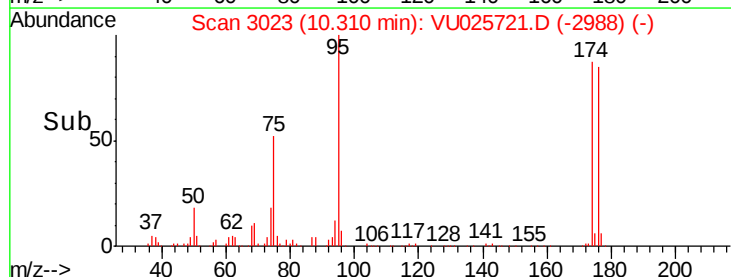
75 100

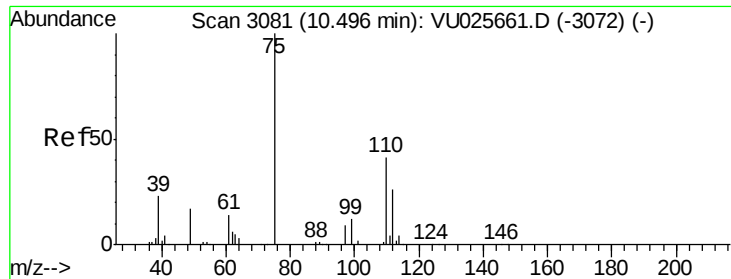
77 1.1 20.4 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

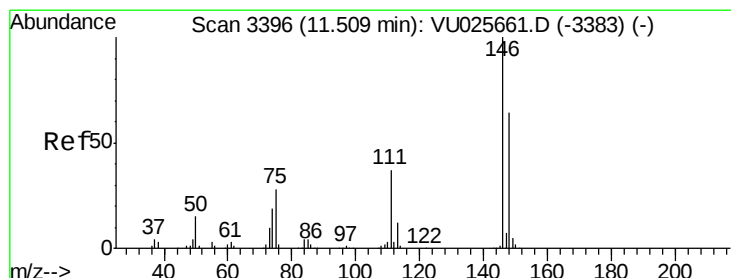
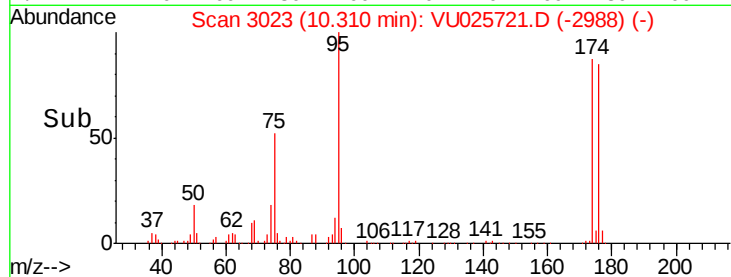
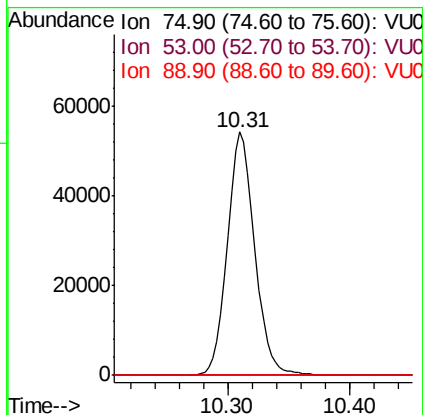
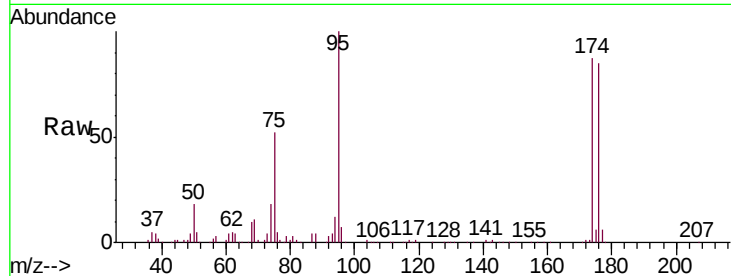




#81
trans-1,4-Dichloro-2-butene
Concen: 61.76 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.19 min
Lab File: VU025721.D
Acq: 30 Jul 2018 14:41

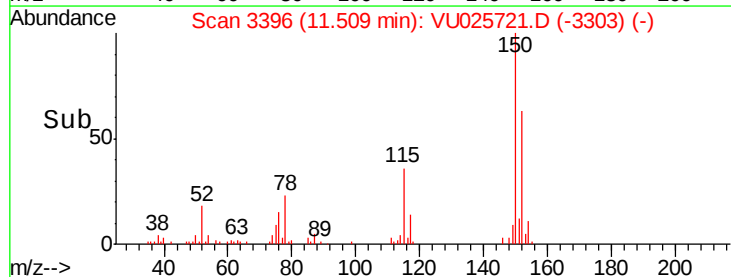
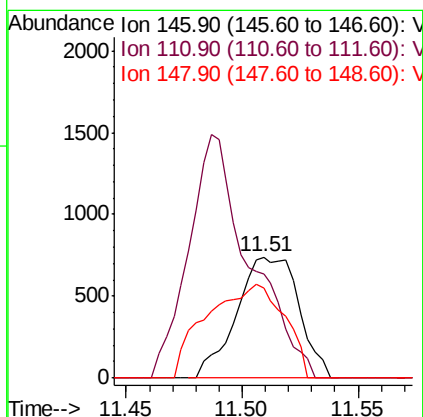
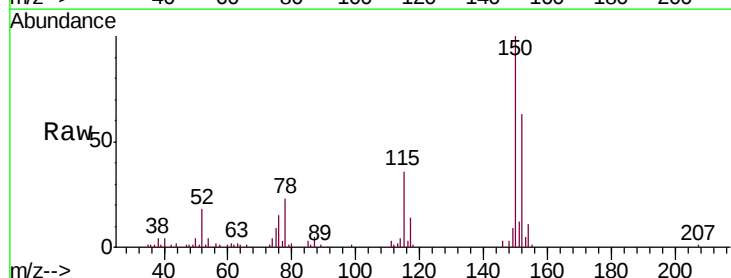
Instrument :
MSVOA_U
ClientSampleId :
SV26835

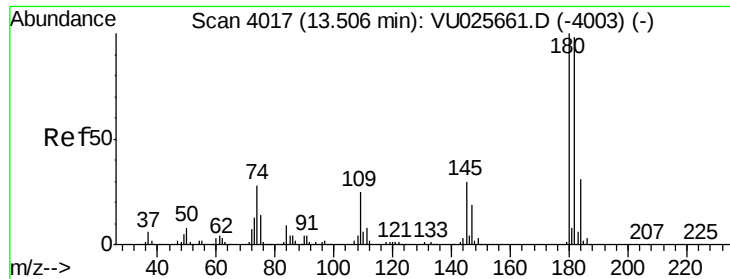
Tot Ion: 75 Resp: 85001
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#88
1,4-Dichlorobenzene
Concen: 0.22 ug/l
RT: 11.51 min Scan# 3396
Delta R.T. 0.00 min
Lab File: VU025721.D
Acq: 30 Jul 2018 14:41

Tgt Ion: 146 Resp: 1381
Ion Ratio Lower Upper
146 100
111 0.0 19.4 58.1#
148 95.9 31.7 95.1#

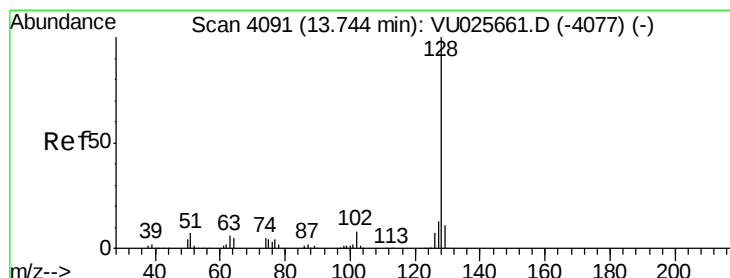
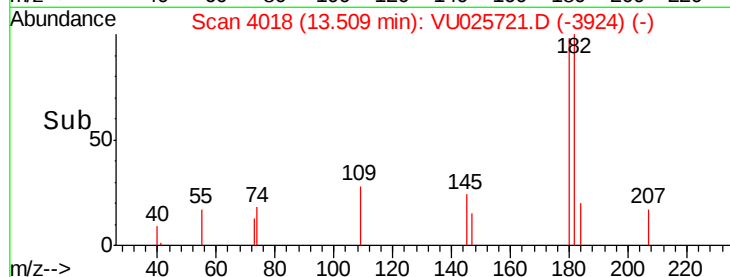
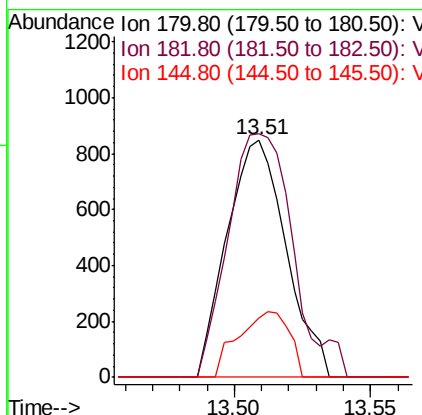
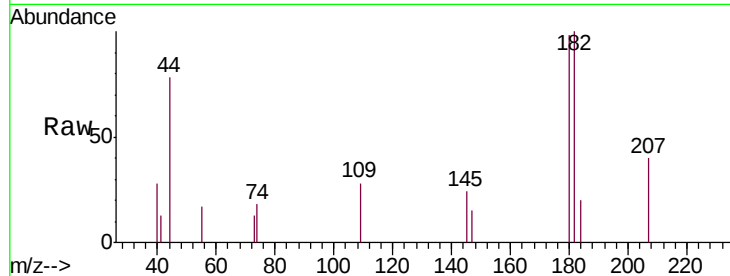




#93
 1,2,4-Trichlorobenzene
 Concen: 0.32 ug/l
 RT: 13.51 min Scan# 4018
 Delta R.T. 0.00 min
 Lab File: VU025721.D
 Acq: 30 Jul 2018 14:41

Instrument :
 MSVOA_U
 ClientSampleId :
 SV26835

Tot Ion:180 Resp: 1277
 Ion Ratio Lower Upper
 180 100
 182 112.7 47.3 141.9
 145 23.8 14.9 44.7



#95
 Naphthalene
 Concen: 1.97 ug/l
 RT: 13.75 min Scan# 4094
 Delta R.T. 0.01 min
 Lab File: VU025721.D
 Acq: 30 Jul 2018 14:41

Tgt Ion:128 Resp: 9526
 Ion Ratio Lower Upper
 128 100
 127 13.3 10.5 15.7
 129 10.6 8.3 12.5

