

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011519\
 Data File : VU029189.D
 Acq On : 15 Jan 2019 16:44
 Operator : JC/SP
 Sample : K1139-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S-1

Quant Time: Jan 16 04:36:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 12 01:33:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	108920	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	192269	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	179728	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	70587	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	75821	56.31	ug/l	0.00
Spiked Amount			Recovery	=	112.62%	
35) Dibromofluoromethane	4.88	113	65675	52.69	ug/l	0.00
Spiked Amount			Recovery	=	105.38%	
50) Toluene-d8	7.56	98	248850	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
62) 4-Bromofluorobenzene	10.30	95	77097	43.60	ug/l	0.00
Spiked Amount			Recovery	=	87.20%	

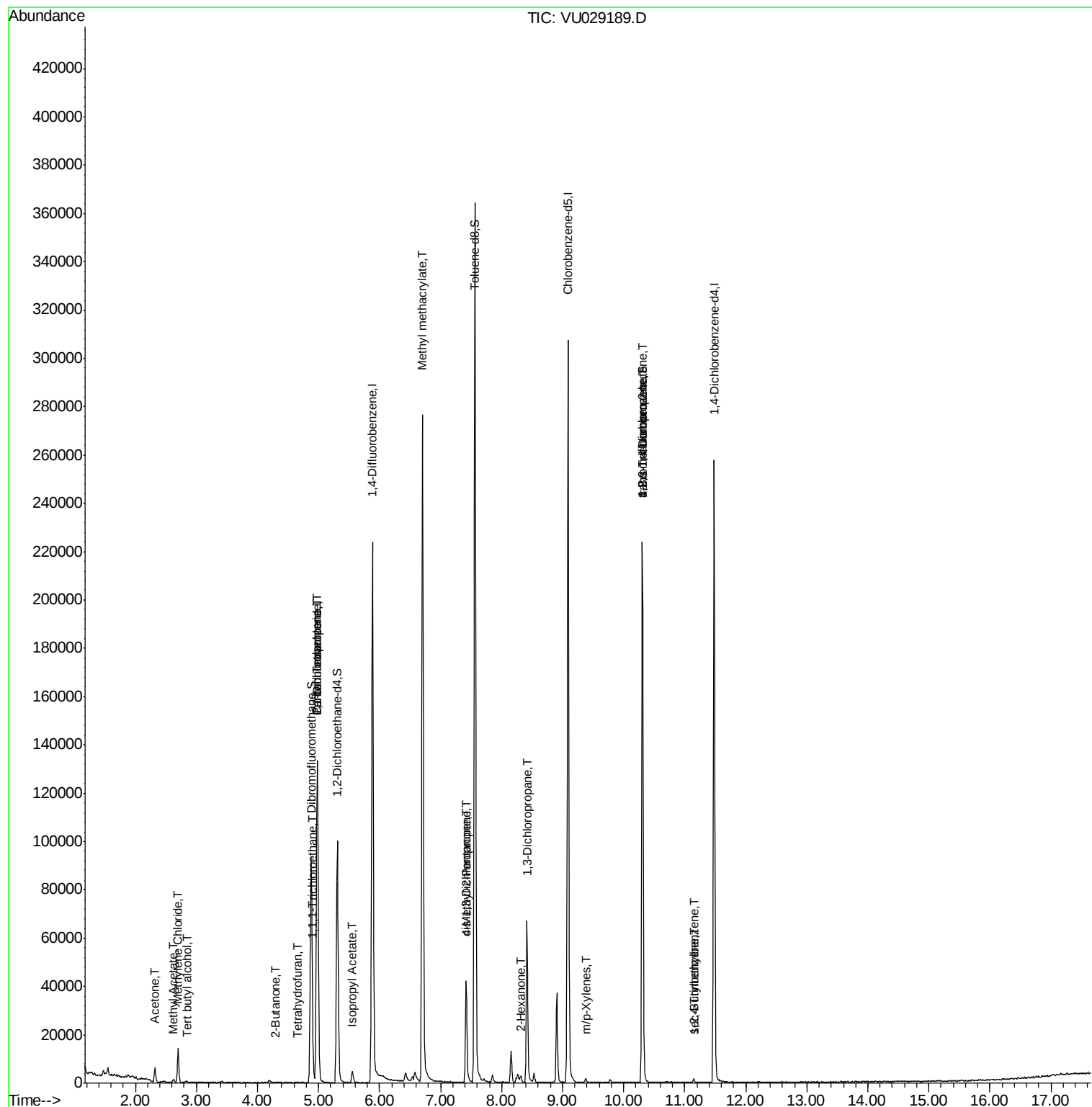
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	750	Below Cal		93
11) Tert butyl alcohol	2.83	59	159	0.465	ug/l #	73
16) Acetone	2.32	43	6585	7.763	ug/l	98
17) Carbon Disulfide	2.48	76	392	Below Cal	#	75
18) Methyl Acetate	2.62	43	1849	0.938	ug/l #	88
20) Methylene Chloride	2.70	84	6106	4.240	ug/l	94
25) 2-Butanone	4.29	43	409	0.357	ug/l #	47
29) Tetrahydrofuran	4.66	42	178	0.256	ug/l #	30
31) Cyclohexane	4.98	56	1958	Below Cal	#	1
32) 1,1,1-Trichloroethane	4.91	97	664	0.357	ug/l #	24
36) 1,1-Dichloropropene	4.98	75	7735	4.025	ug/l #	48
38) Carbon Tetrachloride	4.98	117	9582	5.978	ug/l #	18
43) Isopropyl Acetate	5.55	43	5891	1.820	ug/l #	91
48) Methyl methacrylate	6.70	41	22973	14.580	ug/l #	37
51) 4-Methyl-2-Pentanone	7.42	43	16958	7.700	ug/l #	43
54) cis-1,3-Dichloropropene	7.42	75	8113	3.354	ug/l #	63
57) 1,3-Dichloropropane	8.41	76	634	0.253	ug/l #	42
59) 2-Hexanone	8.31	43	2256	1.305	ug/l #	21
68) m/p-Xylenes	9.38	106	620	0.237	ug/l	100
76) 1,2,3-Trichloropropane	10.30	75	36570	21.145	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.30	75	36570	54.534	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	1229	0.282	ug/l	95
85) sec-Butylbenzene	11.15	105	1229	0.236	ug/l #	57

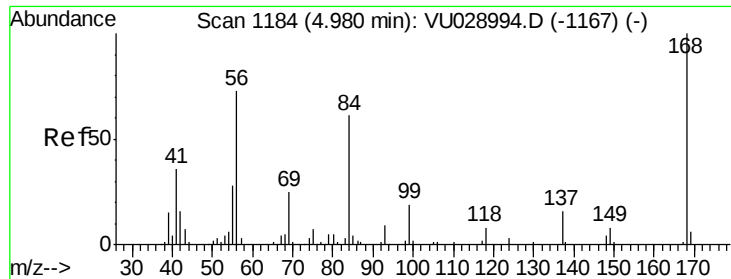
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 16 04:36:02 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 12 01:33:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU029189.D

Acq: 15 Jan 2019 16:44

Instrument :

MSVOA_U

ClientSampled :

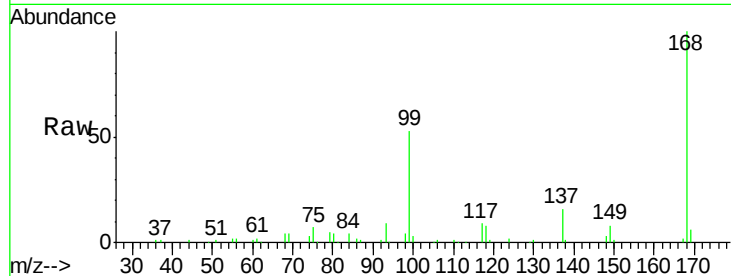
S-1

Tot Ion:168 Resp: 108920

Ion Ratio Lower Upper

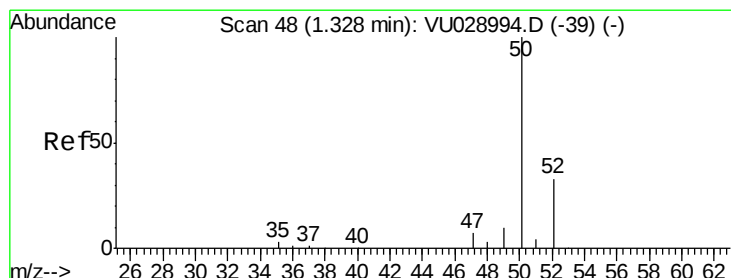
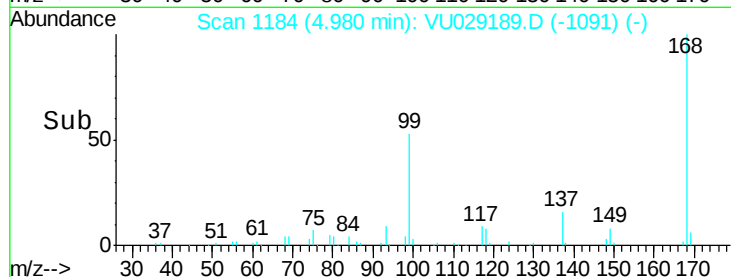
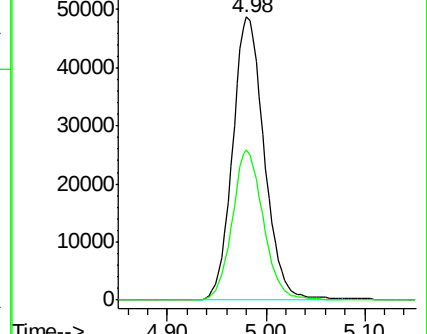
168 100

99 52.8 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029189.D

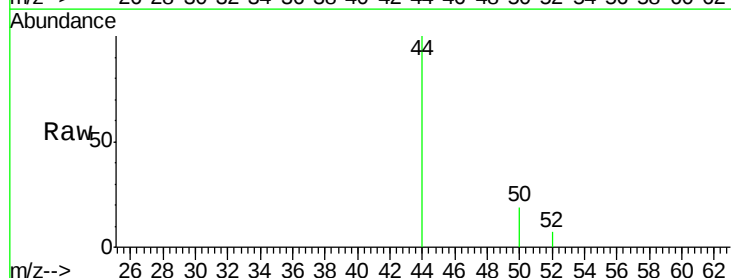
Acq: 15 Jan 2019 16:44

Tgt Ion: 50 Resp: 750

Ion Ratio Lower Upper

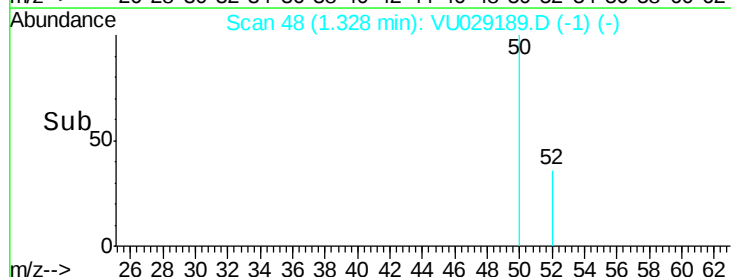
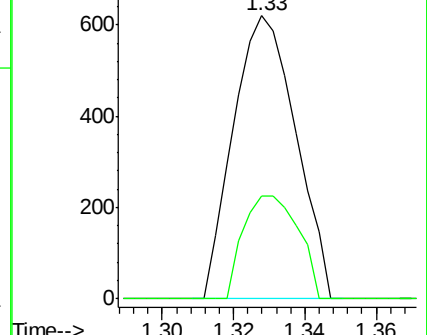
50 100

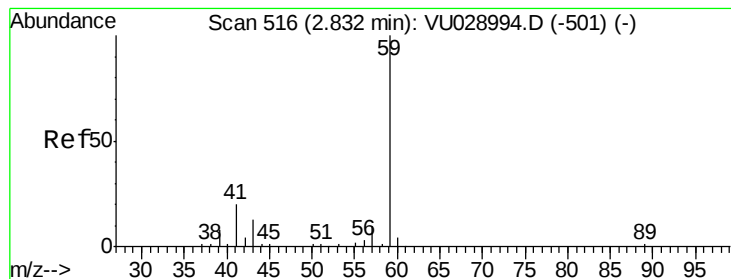
52 36.5 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VU028994.D (-39) (-)

Ion 51.90 (51.60 to 52.60): VU028994.D (-39) (-)





#11

Tert butyl alcohol

Concen: 0.465 ug/l

RT: 2.83 min Scan# 515

Delta R.T. -0.00 min

Lab File: VU029189.D

Acq: 15 Jan 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

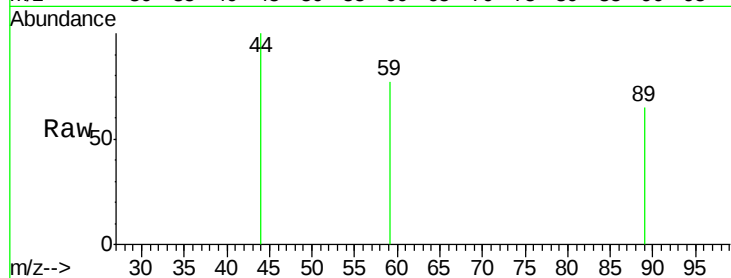
S-1

Tot Ion: 59 Resp: 159

Ion Ratio Lower Upper

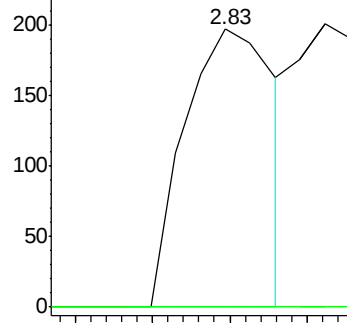
59 100

57 0.0 7.9 11.9#

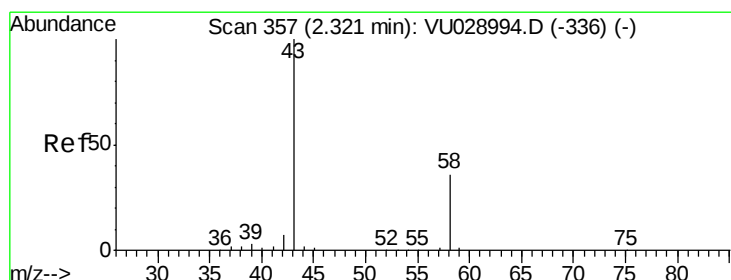
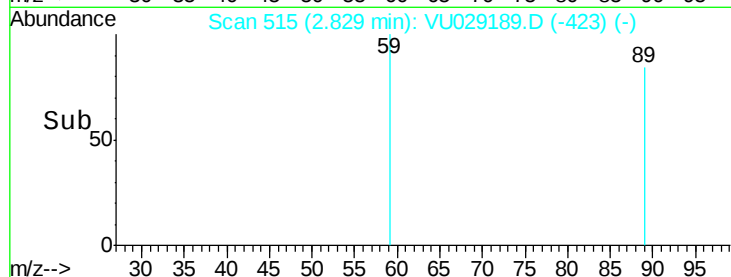


Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



Time-->



#16

Acetone

Concen: 7.763 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029189.D

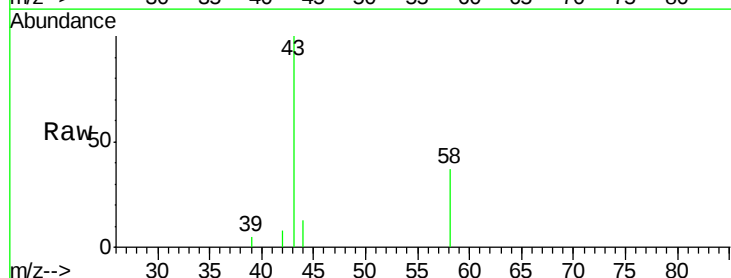
Acq: 15 Jan 2019 16:44

Tgt Ion: 43 Resp: 6585

Ion Ratio Lower Upper

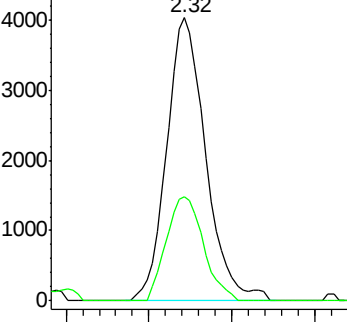
43 100

58 36.8 28.6 42.8

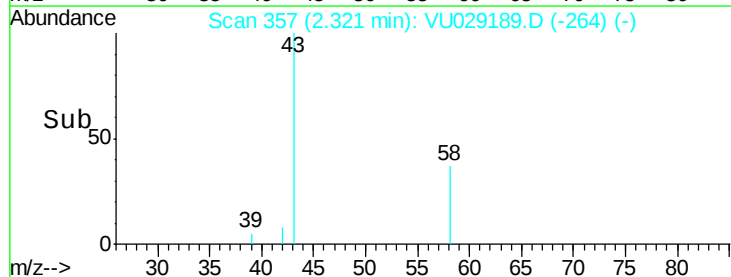


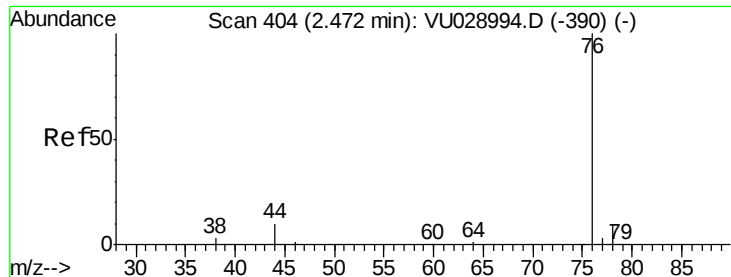
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time-->

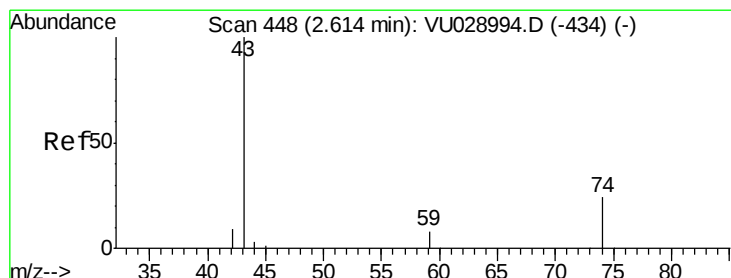
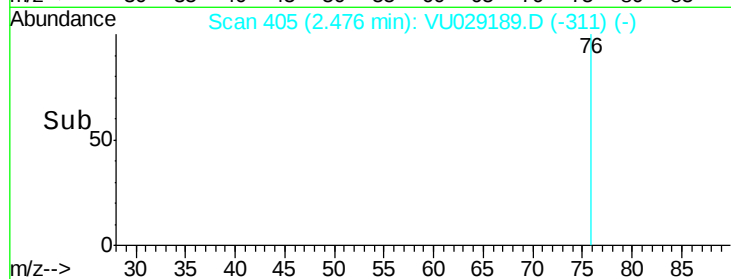
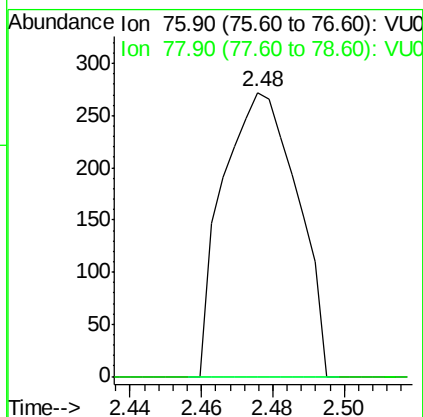
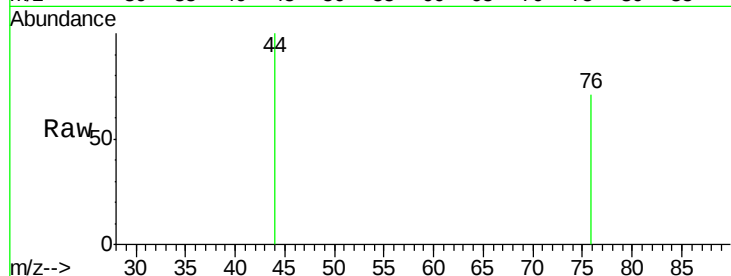




#17
Carbon Disulfide
Concen: Below Cal
RT: 2.48 min Scan# 405
Delta R.T. 0.00 min
Lab File: VU029189.D
Acq: 15 Jan 2019 16:44

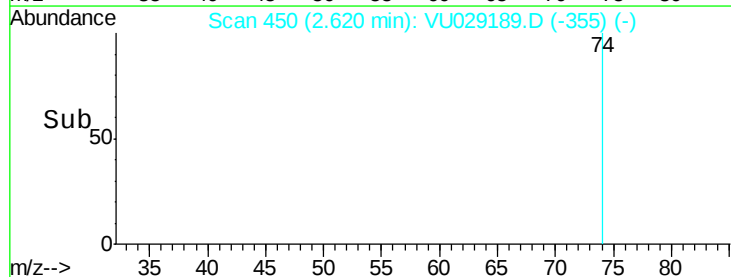
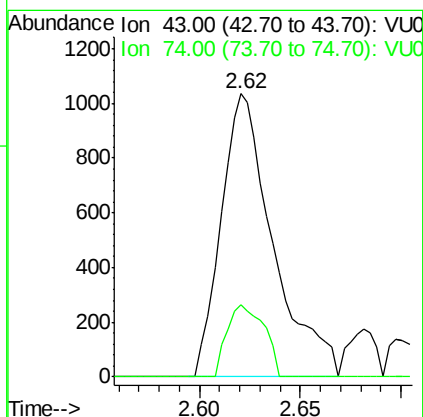
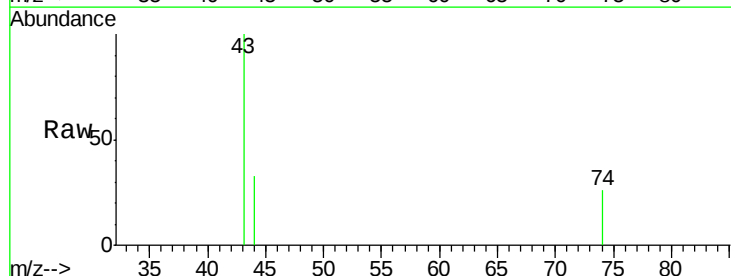
Instrument :
MSVOA_U
ClientSampleId :
S-1

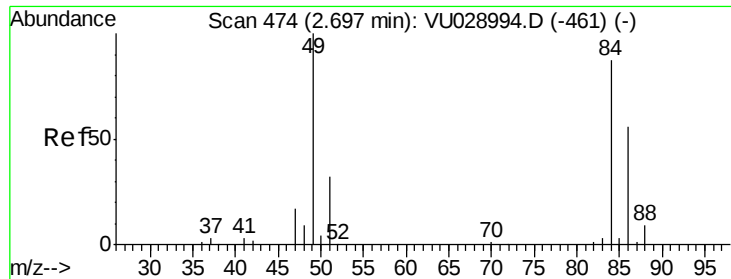
Tot Ion: 76 Resp: 392
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: 0.938 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.01 min
Lab File: VU029189.D
Acq: 15 Jan 2019 16:44

Tgt Ion: 43 Resp: 1849
Ion Ratio Lower Upper
43 100
74 18.4 19.5 29.3#

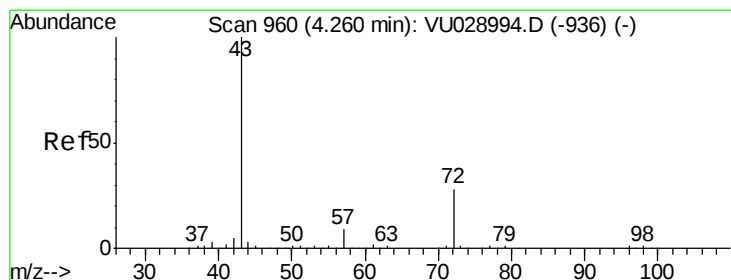
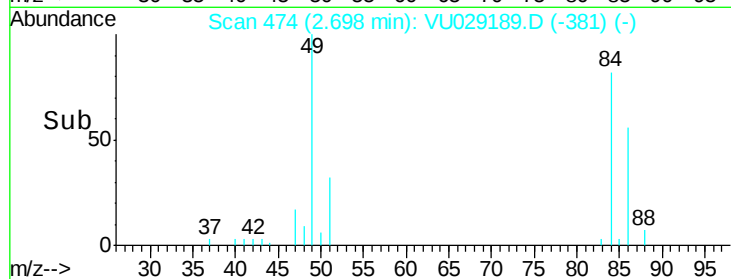
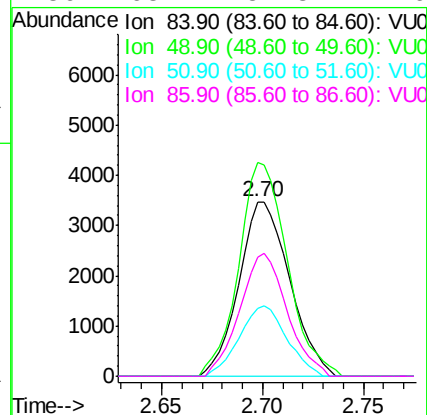
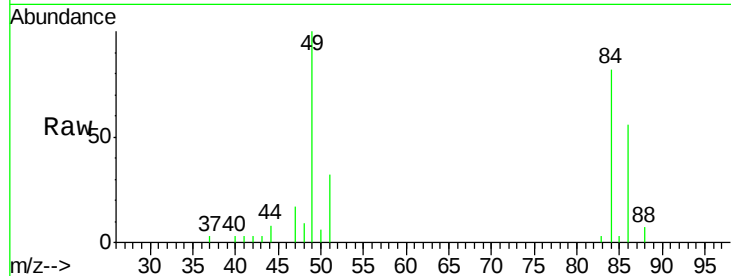




#20
Methvlene Chloride
Concen: 4.240 ug/l
RT: 2.70 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU029189.D
Acq: 15 Jan 2019 16:44

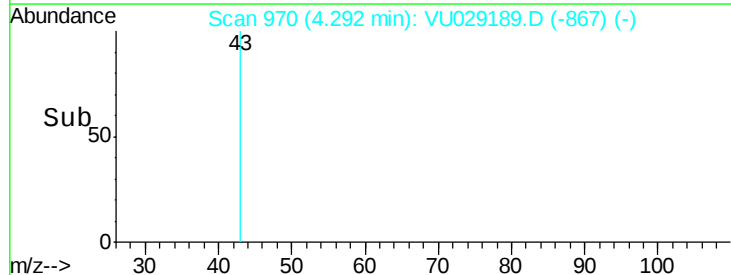
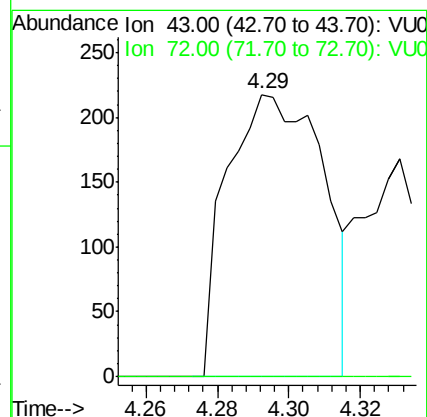
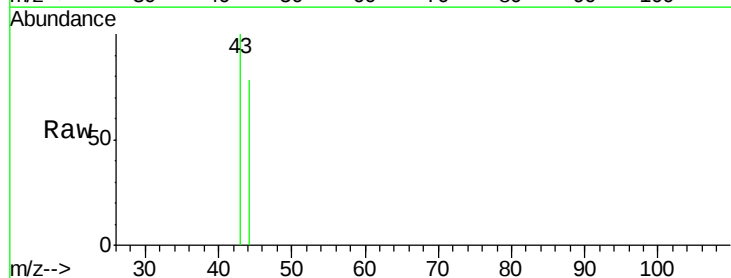
Instrument :
MSVOA_U
ClientSampled :
S-1

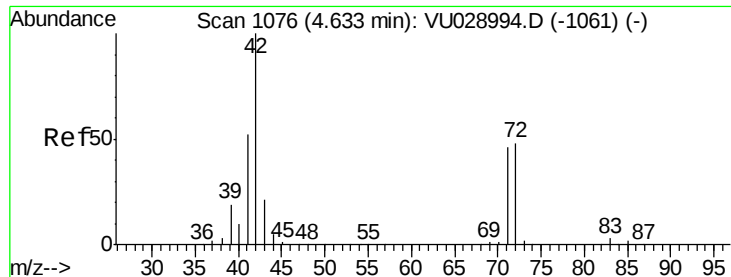
Tot Ion: 84 Resp: 6106
Ion Ratio Lower Upper
84 100
49 122.7 91.9 137.9
51 38.9 29.2 43.8
86 68.7 51.8 77.6



#25
2-Butanone
Concen: 0.357 ug/l
RT: 4.29 min Scan# 970
Delta R.T. 0.03 min
Lab File: VU029189.D
Acq: 15 Jan 2019 16:44

Tgt Ion: 43 Resp: 409
Ion Ratio Lower Upper
43 100
72 0.0 22.6 33.8#





#29

Tetrahydrofuran

Concen: 0.256 ug/l

RT: 4.66 min Scan# 1084

Delta R.T. 0.03 min

Lab File: VU029189.D

Acq: 15 Jan 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

S-1

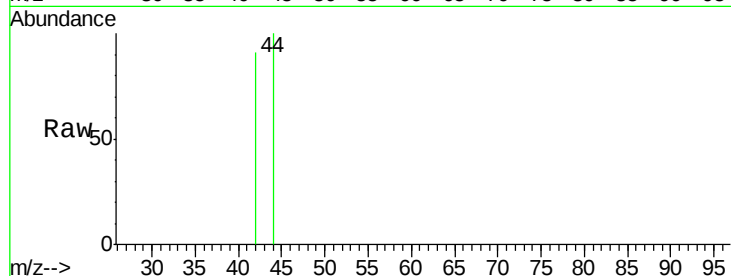
Tot Ion: 42 Resp: 178

Ion Ratio Lower Upper

42 100

72 0.0 38.3 57.5#

71 0.0 36.1 54.1#



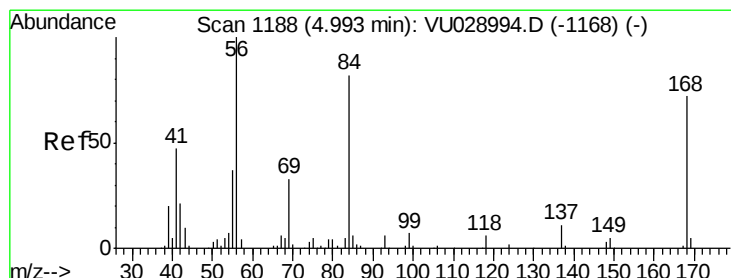
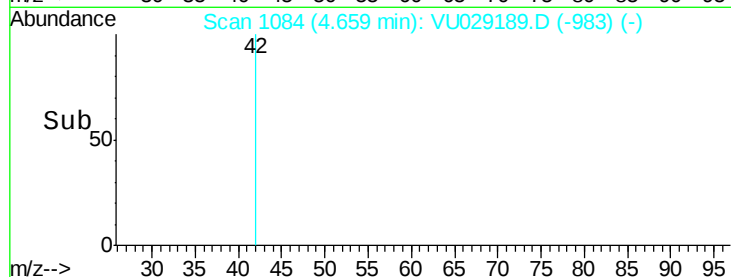
Abundance Ion 42.00 (41.70 to 42.70): VU028994.D (-1061) (-)

Ion 72.00 (71.70 to 72.70): VU028994.D (-1061) (-)

Ion 71.00 (70.70 to 71.70): VU028994.D (-1061) (-)

Time-->

4.64 4.66 4.68



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VU029189.D

Acq: 15 Jan 2019 16:44

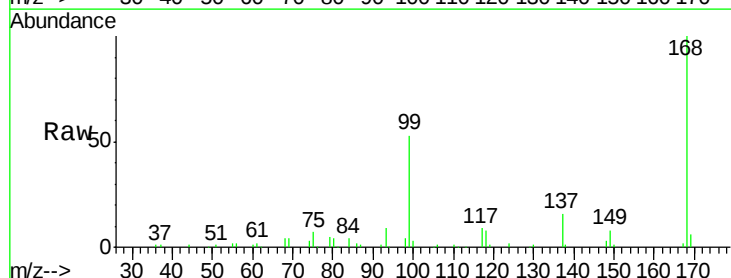
Tgt Ion: 56 Resp: 1958

Ion Ratio Lower Upper

56 100

69 194.4 26.7 40.1#

84 190.0 65.7 98.5#



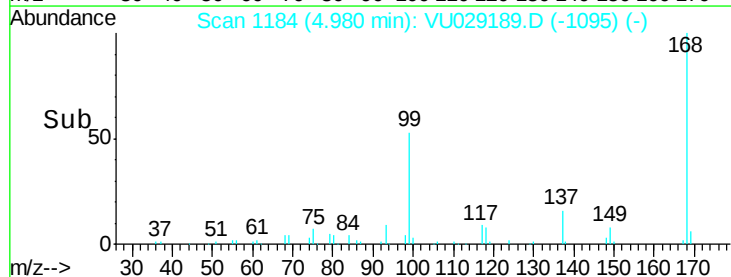
Abundance Ion 56.00 (55.70 to 56.70): VU028994.D (-1168) (-)

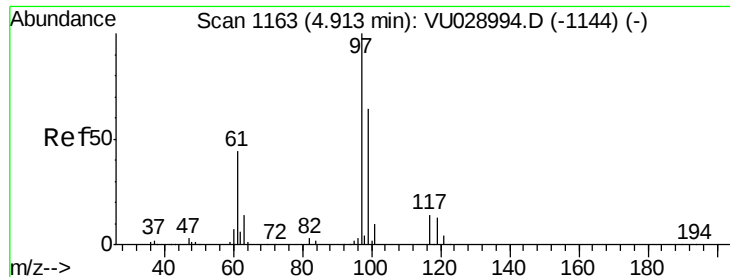
Ion 69.00 (68.70 to 69.70): VU028994.D (-1168) (-)

Ion 84.00 (83.70 to 84.70): VU028994.D (-1168) (-)

Time-->

4.95 5.00





#32

1,1,1-Trichloroethane

Concen: 0.357 ug/l

RT: 4.91 min Scan# 1162

Delta R.T. -0.00 min

Lab File: VU029189.D

Acq: 15 Jan 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

S-1

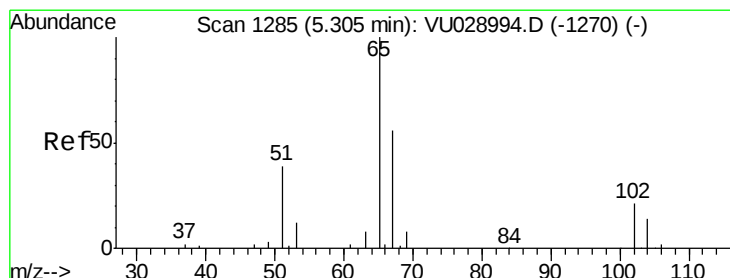
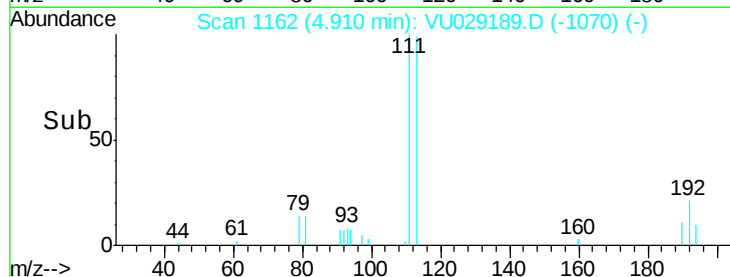
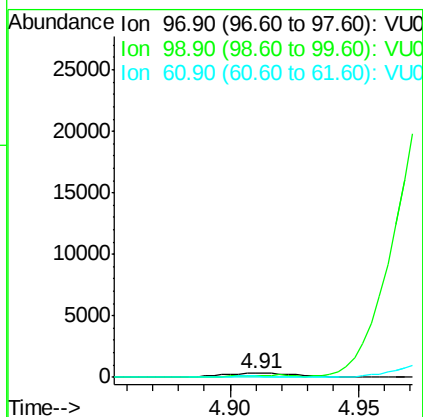
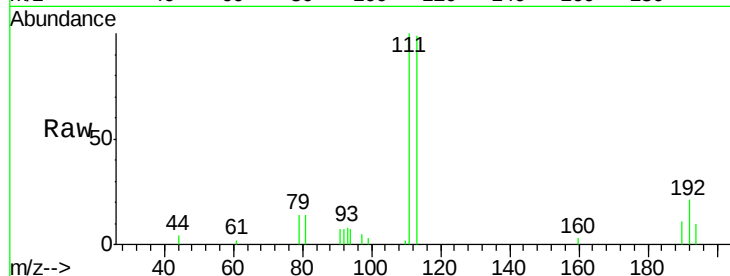
Tot Ion: 97 Resp: 664

Ion Ratio Lower Upper

97 100

99 0.0 51.0 76.4#

61 0.0 34.4 51.6#



#33

1,2-Dichloroethane-d4

Concen: 56.311 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VU029189.D

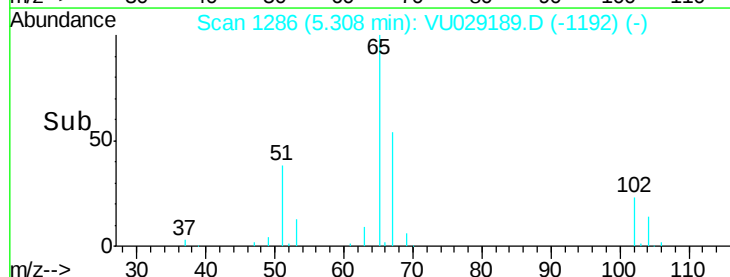
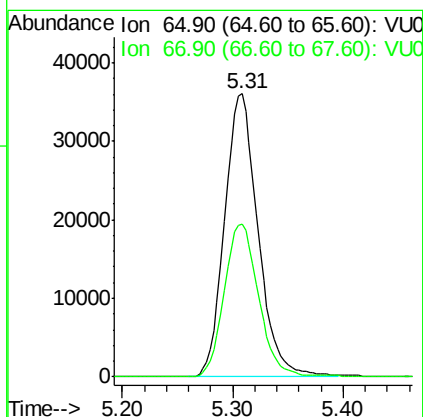
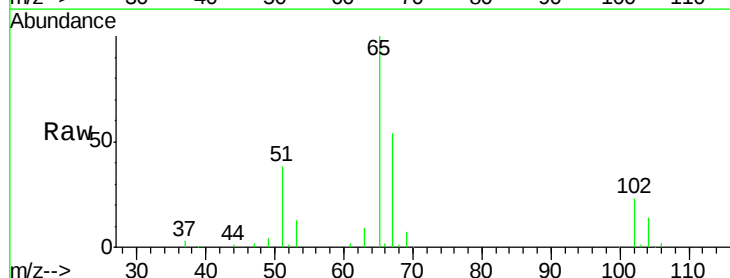
Acq: 15 Jan 2019 16:44

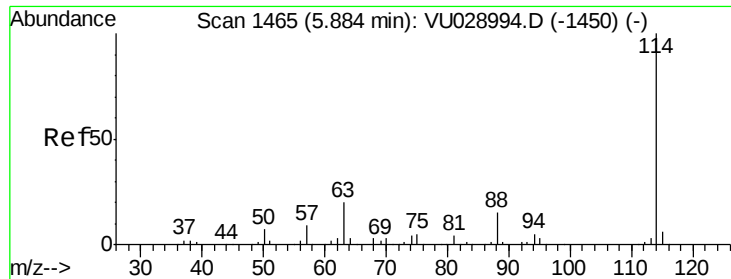
Tgt Ion: 65 Resp: 75821

Ion Ratio Lower Upper

65 100

67 55.6 0.0 111.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.88 min Scan# 1465

Delta R.T. 0.00 min

Lab File: VU029189.D

Acq: 15 Jan 2019 16:44

Instrument :

MSVOA_U

ClientSampled :

S-1

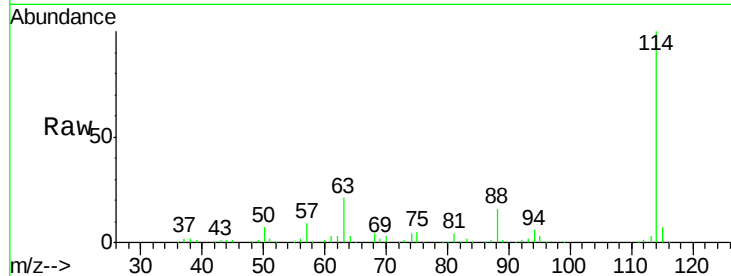
Tot Ion:114 Resp: 192269

Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.2

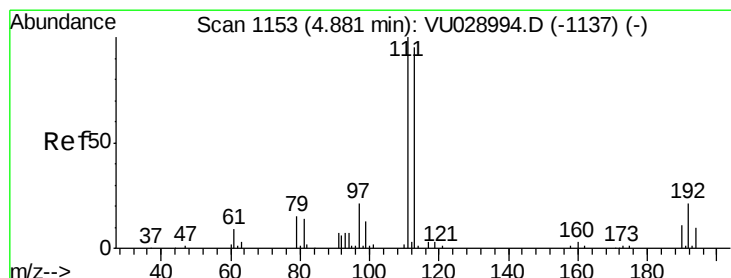
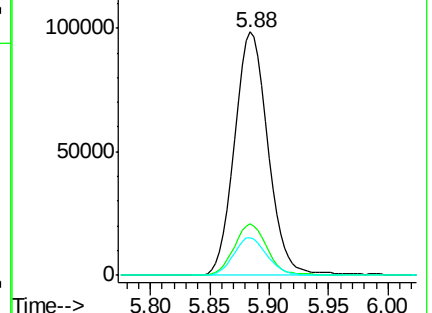
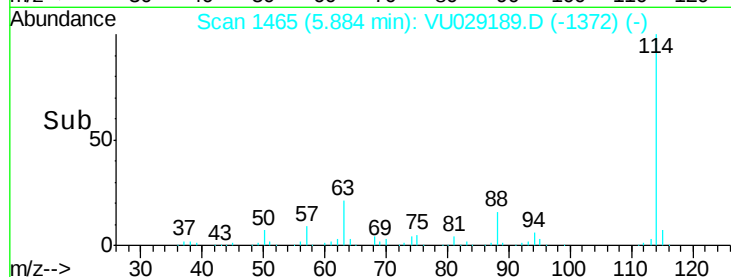
88 15.5 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 52.694 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VU029189.D

Acq: 15 Jan 2019 16:44

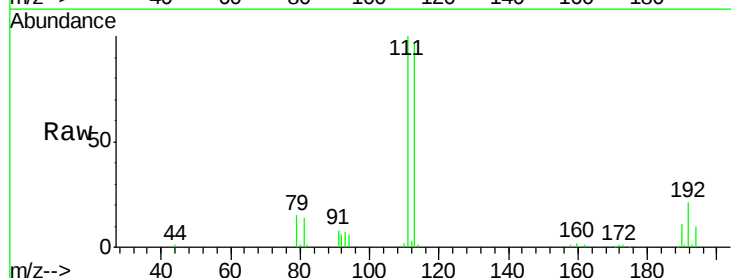
Tgt Ion:113 Resp: 65675

Ion Ratio Lower Upper

113 100

111 104.1 81.4 122.2

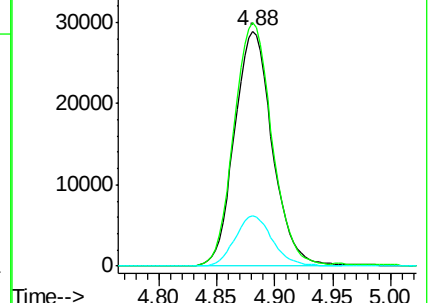
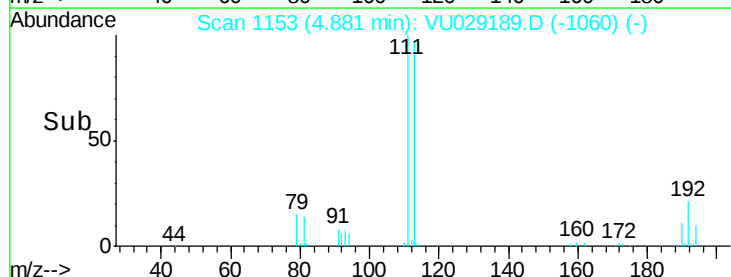
192 21.2 16.8 25.2

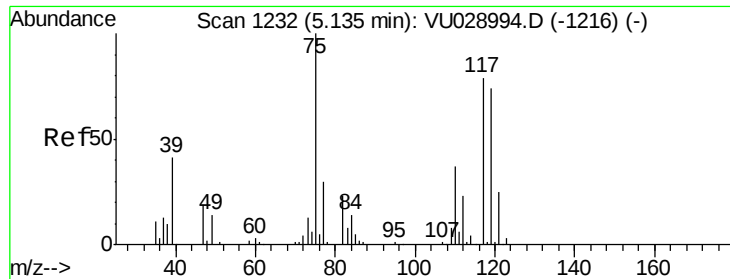


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

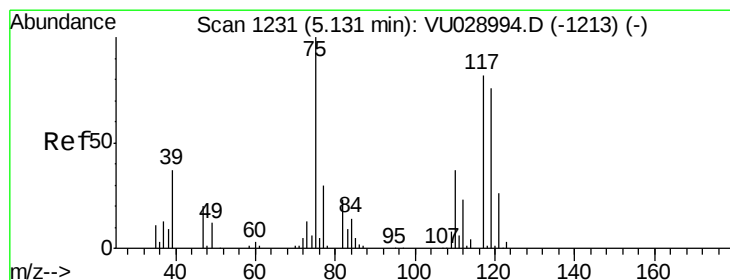
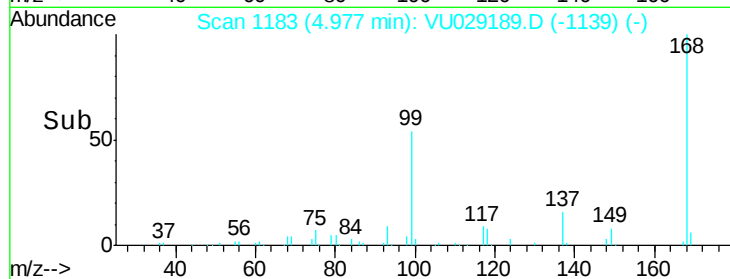
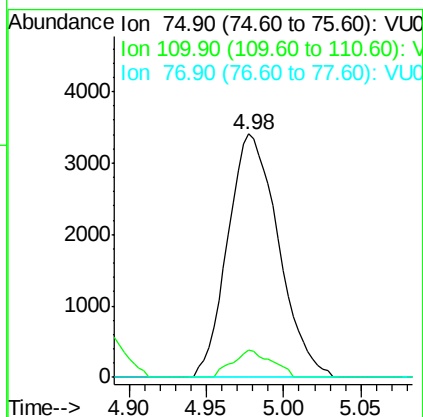
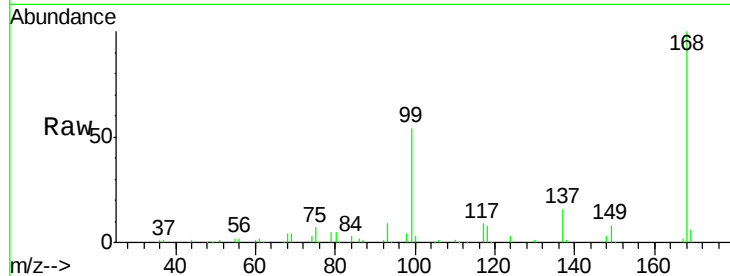




#36
 1,1-Dichloropropene
 Concen: 4.025 ug/l
 RT: 4.98 min Scan# 1183
 Delta R.T. -0.16 min
 Lab File: VU029189.D
 Acq: 15 Jan 2019 16:44

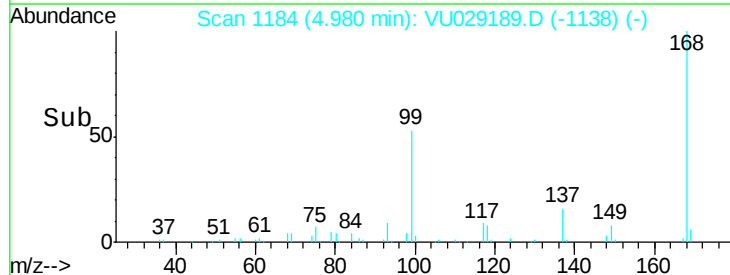
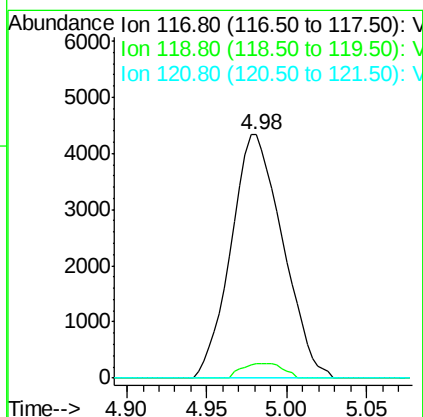
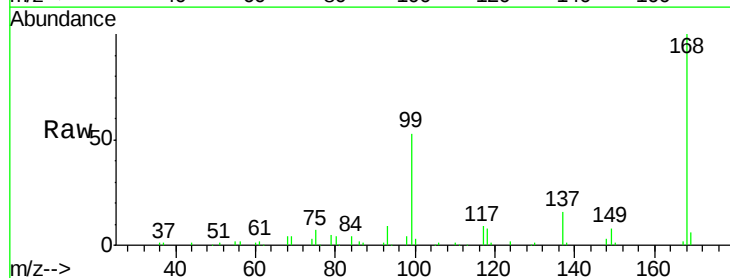
Instrument :
 MSVOA_U
 ClientSampleId :
 S-1

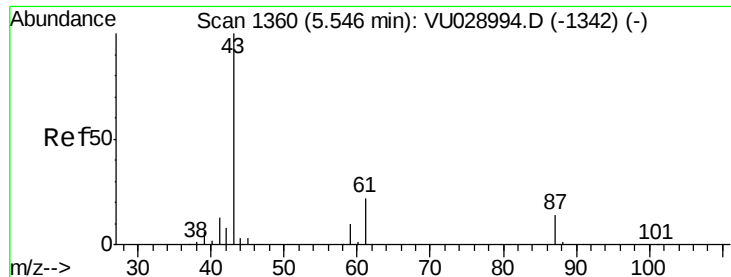
Tot Ion: 75 Resp: 7735
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.4 55.4#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.978 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029189.D
 Acq: 15 Jan 2019 16:44

Tgt Ion: 117 Resp: 9582
 Ion Ratio Lower Upper
 117 100
 119 6.1 74.6 111.8#
 121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 1.820 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. 0.00 min

Lab File: VU029189.D

Acq: 15 Jan 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

S-1

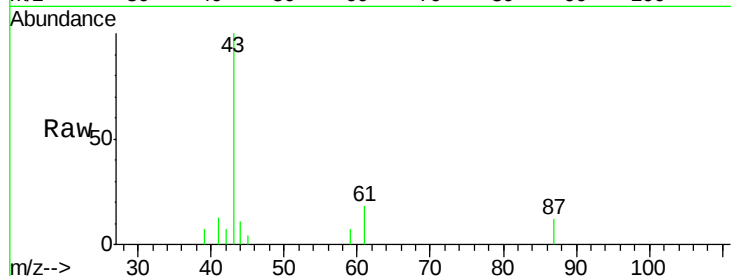
Tot Ion: 43 Resp: 5891

Ion Ratio Lower Upper

43 100

61 18.2 17.8 26.6

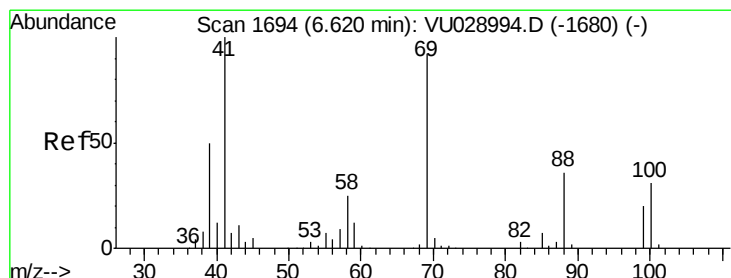
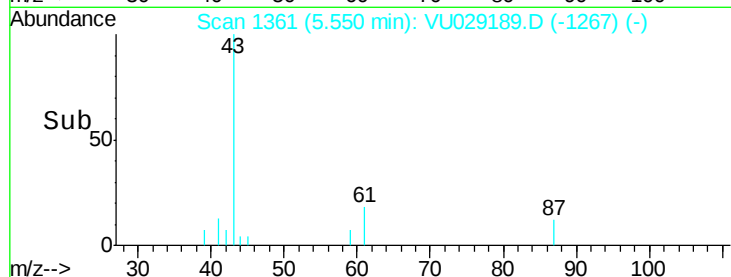
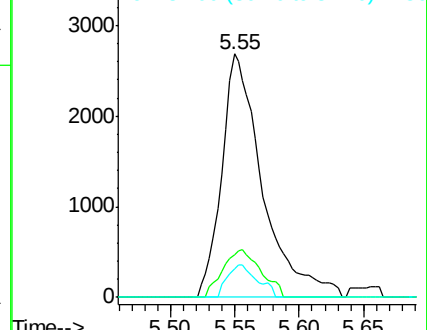
87 9.7 11.3 16.9#



Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-1342) (-)

Ion 61.00 (60.70 to 61.70): VU028994.D (-1342) (-)

Ion 87.00 (86.70 to 87.70): VU028994.D (-1342) (-)



#48

Methyl methacrylate

Concen: 14.580 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

Lab File: VU029189.D

Acq: 15 Jan 2019 16:44

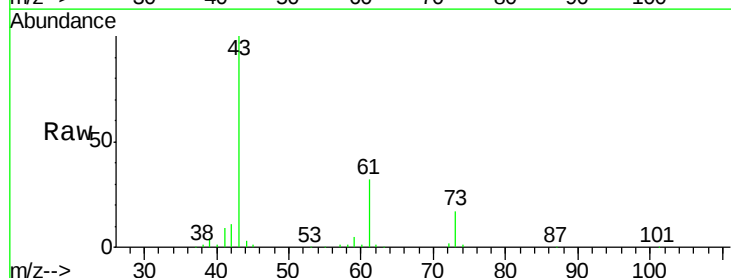
Tgt Ion: 41 Resp: 22973

Ion Ratio Lower Upper

41 100

69 0.0 73.6 110.4#

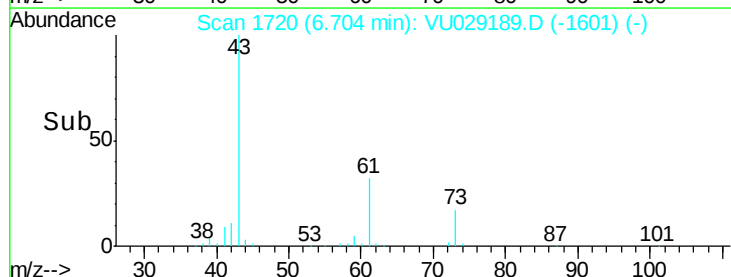
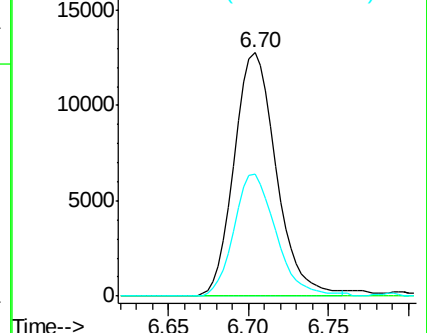
39 49.4 39.6 59.4

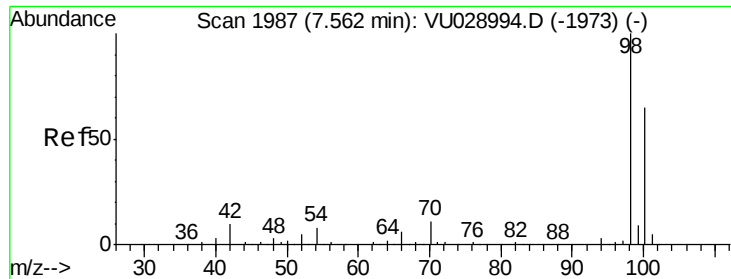


Abundance Ion 41.00 (40.70 to 41.70): VU028994.D (-1680) (-)

Ion 69.00 (68.70 to 69.70): VU028994.D (-1680) (-)

Ion 39.00 (38.70 to 39.70): VU028994.D (-1680) (-)

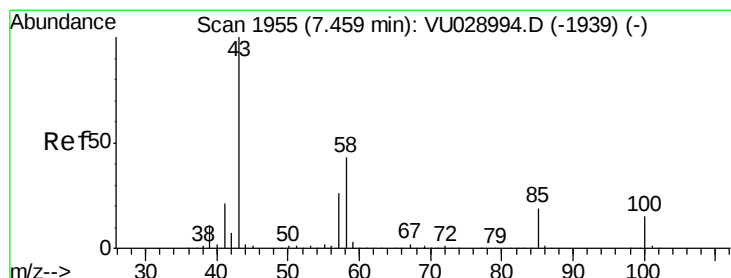
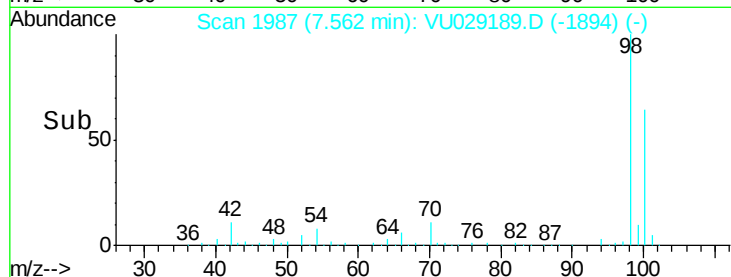
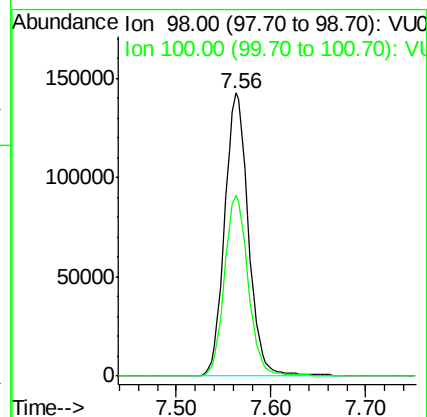
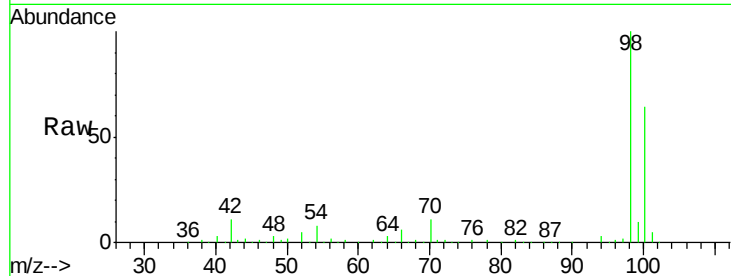




#50
Toluene-d8
Concen: 50.575 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029189.D
Acq: 15 Jan 2019 16:44

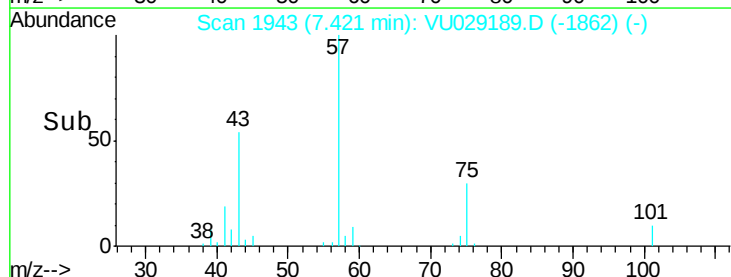
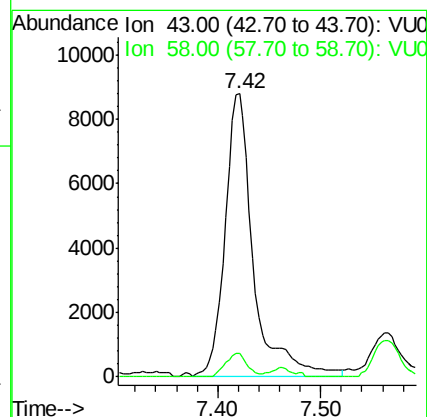
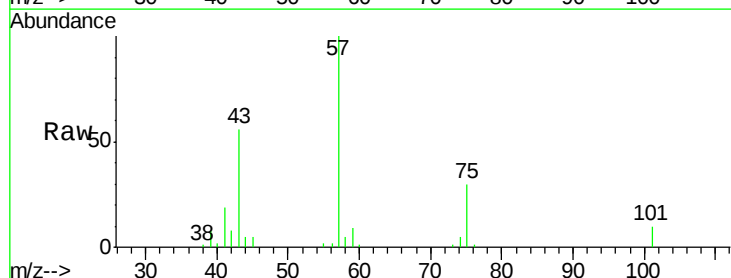
Instrument :
MSVOA_U
ClientSampled :
S-1

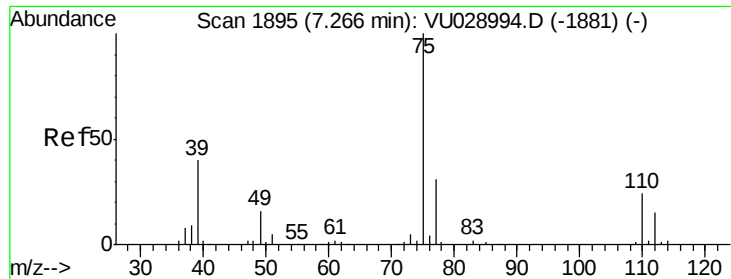
Tot Ion: 98 Resp: 248850
Ion Ratio Lower Upper
98 100
100 64.1 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 7.700 ug/l
RT: 7.42 min Scan# 1943
Delta R.T. -0.04 min
Lab File: VU029189.D
Acq: 15 Jan 2019 16:44

Tgt Ion: 43 Resp: 16958
Ion Ratio Lower Upper
43 100
58 6.4 33.9 50.9#

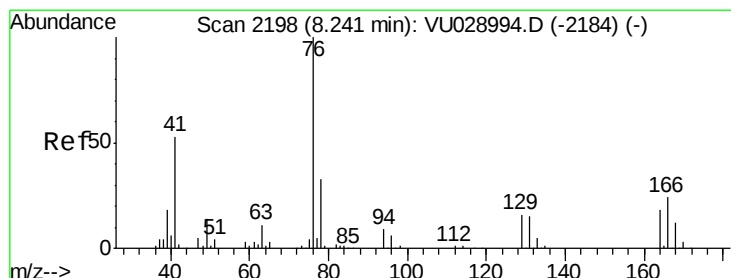
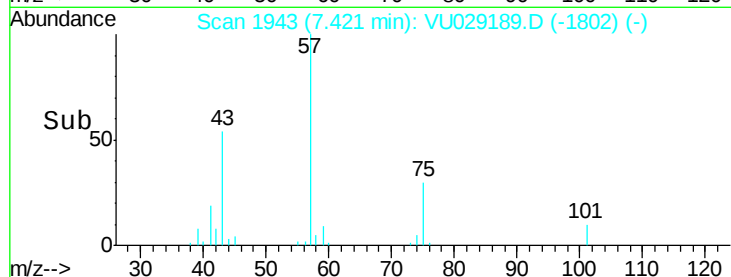
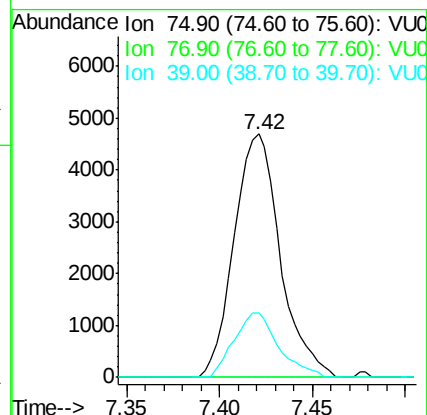
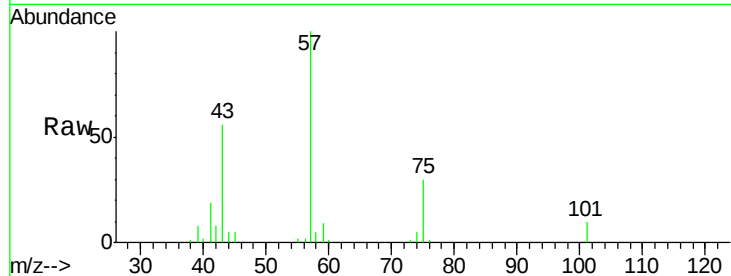




#54
 cis-1,3-Dichloropropene
 Concen: 3.354 ug/l
 RT: 7.42 min Scan# 1943
 Delta R.T. 0.15 min
 Lab File: VU029189.D
 Acq: 15 Jan 2019 16:44

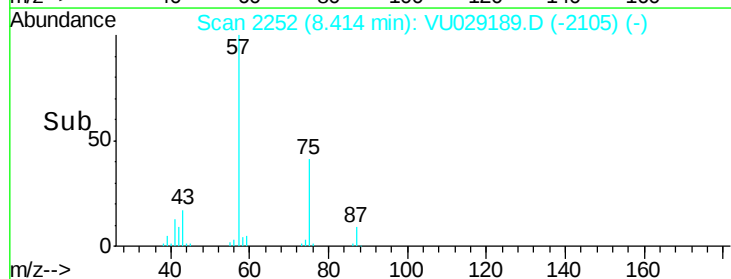
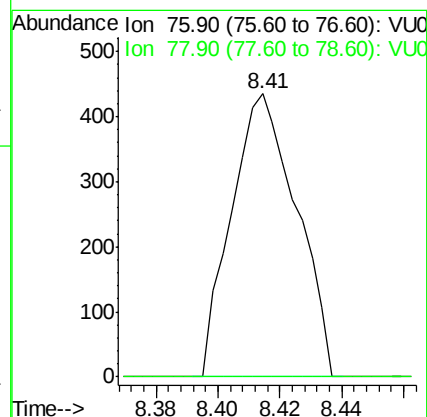
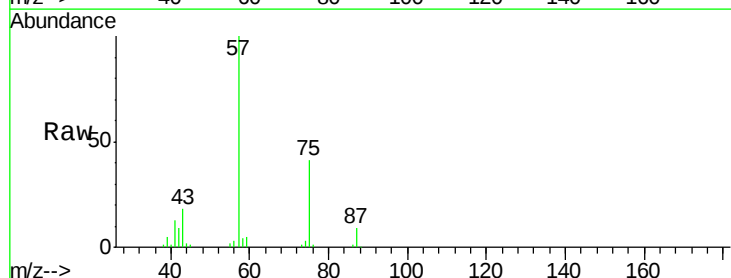
Instrument :
 MSVOA_U
 ClientSampled :
 S-1

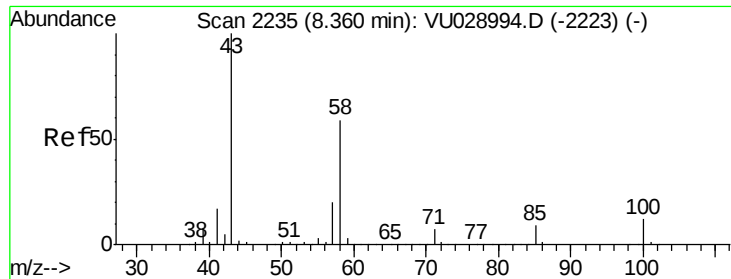
Tot Ion: 75 Resp: 8113
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 26.7 32.2 48.4#



#57
 1,3-Dichloropropane
 Concen: 0.253 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.17 min
 Lab File: VU029189.D
 Acq: 15 Jan 2019 16:44

Tgt Ion: 76 Resp: 634
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#

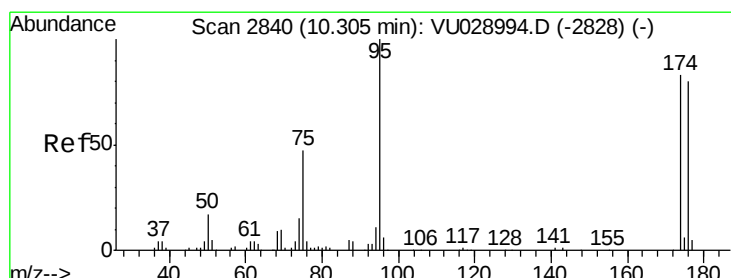
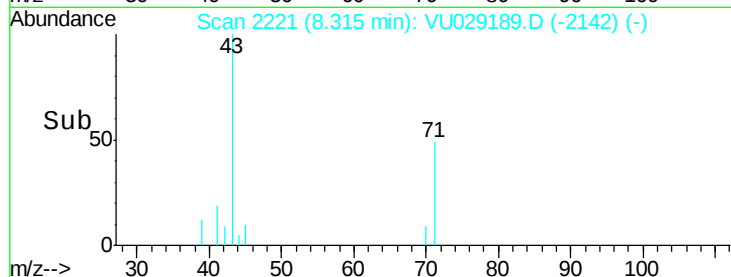
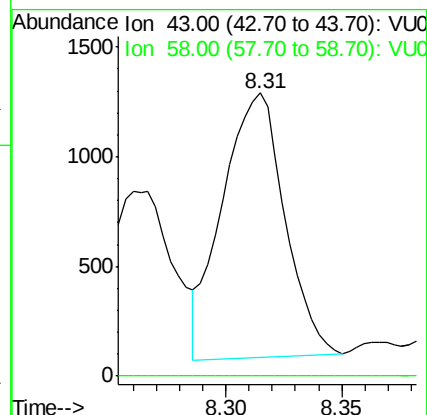
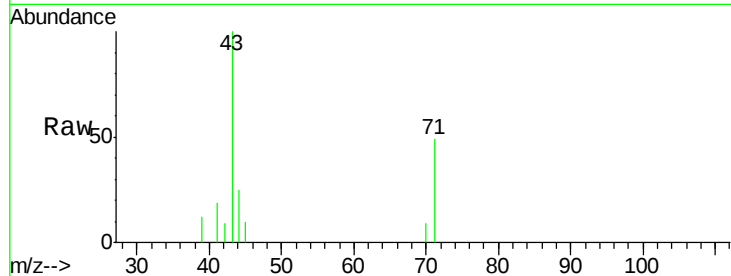




#59
2-Hexanone
Concen: 1.305 ug/l
RT: 8.31 min Scan# 2221
Delta R.T. -0.04 min
Lab File: VU029189.D
Acq: 15 Jan 2019 16:44

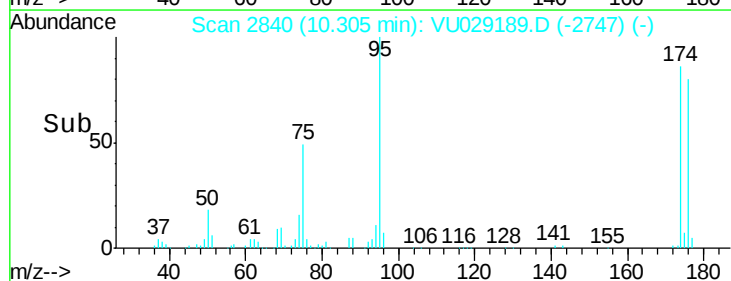
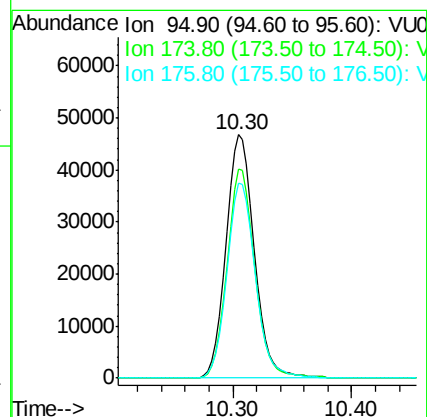
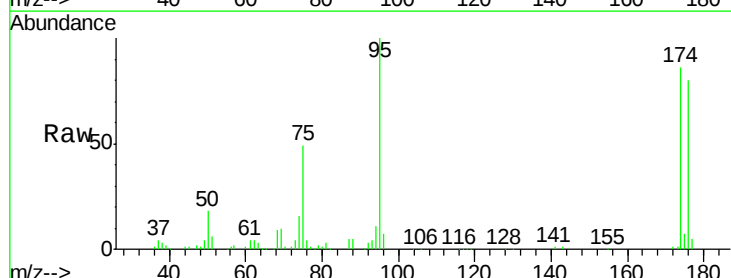
Instrument :
MSVOA_U
ClientSampleId :
S-1

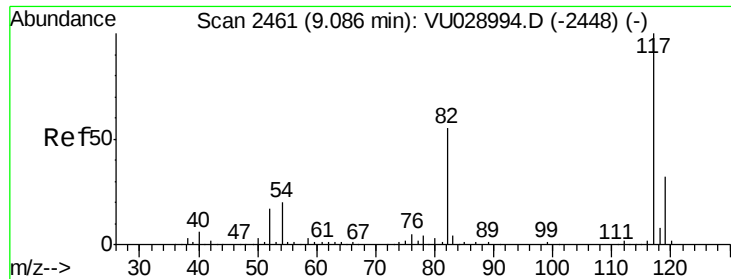
Tot Ion: 43 Resp: 2256
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.4#



#62
4-Bromofluorobenzene
Concen: 43.599 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029189.D
Acq: 15 Jan 2019 16:44

Tgt Ion: 95 Resp: 77097
Ion Ratio Lower Upper
95 100
174 84.4 0.0 170.6
176 80.4 0.0 165.0

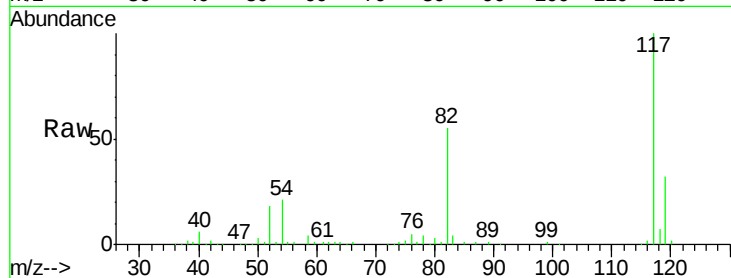




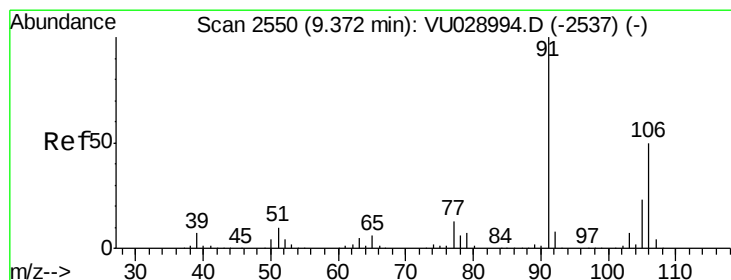
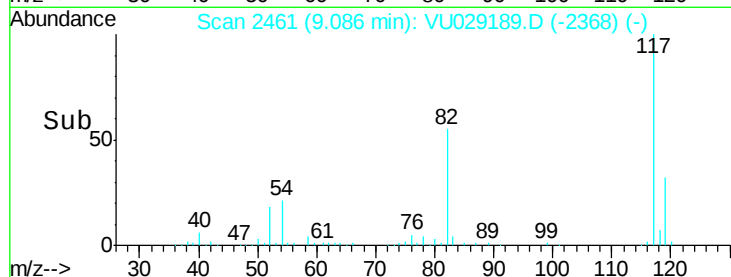
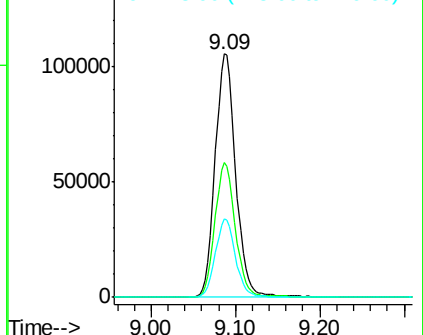
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029189.D
Acq: 15 Jan 2019 16:44

Instrument :
MSVOA_U
ClientSampleId :
S-1

Tot Ion:117 Resp: 179728
Ion Ratio Lower Upper
117 100
82 55.4 43.9 65.9
119 32.1 26.0 39.0

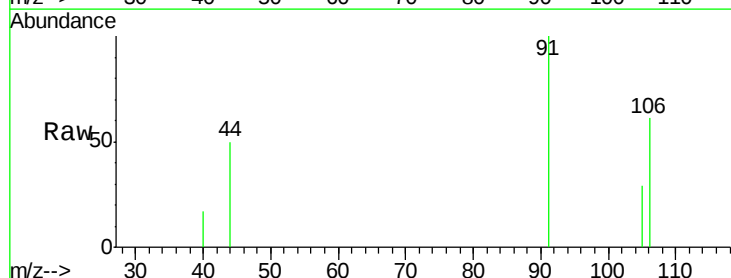


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

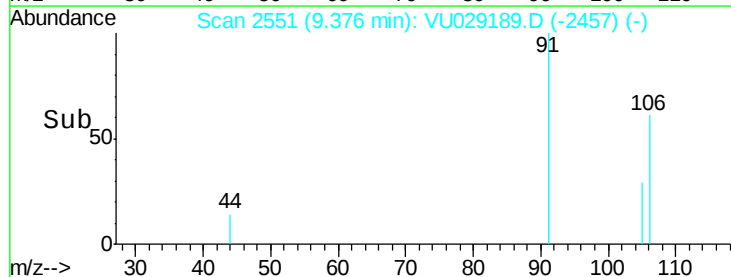
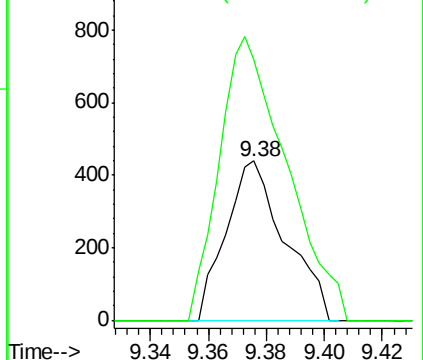


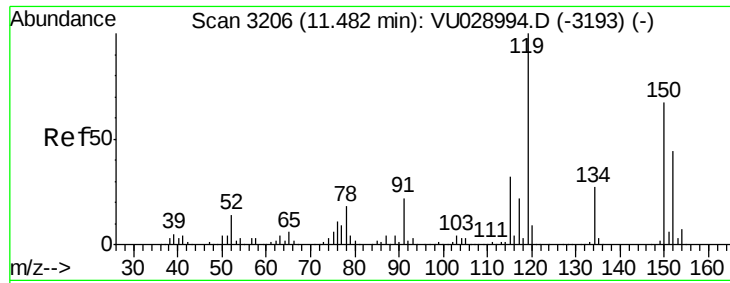
#68
m/p-Xylenes
Concen: 0.237 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU029189.D
Acq: 15 Jan 2019 16:44

Tgt Ion:106 Resp: 620
Ion Ratio Lower Upper
106 100
91 202.3 161.7 242.5



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: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029189.D

Acq: 15 Jan 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

S-1

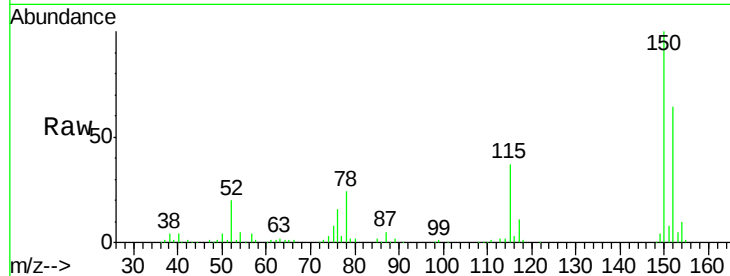
Tot Ion:152 Resp: 70587

Ion Ratio Lower Upper

152 100

115 56.7 40.1 120.3

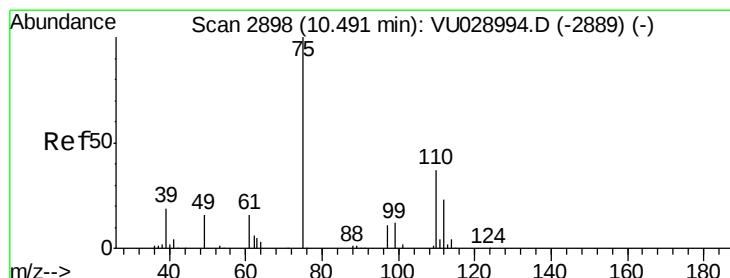
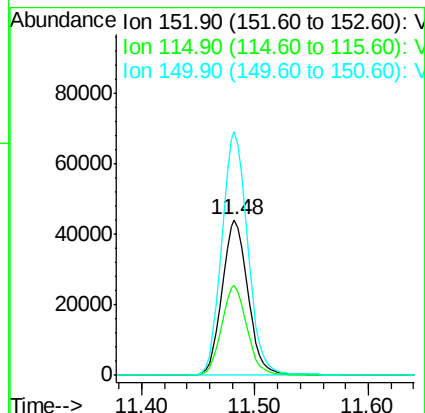
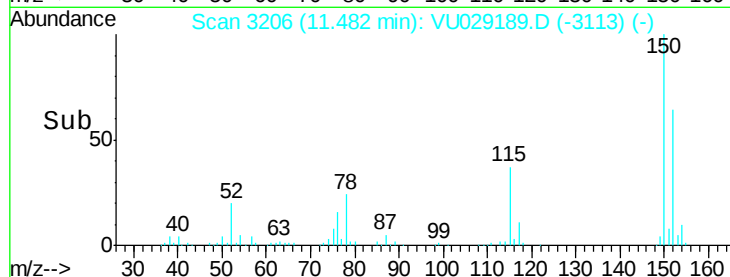
150 157.7 0.0 345.2



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: 21.145 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029189.D

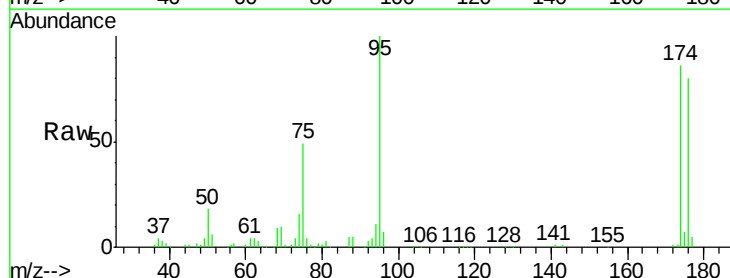
Acq: 15 Jan 2019 16:44

Tgt Ion: 75 Resp: 36570

Ion Ratio Lower Upper

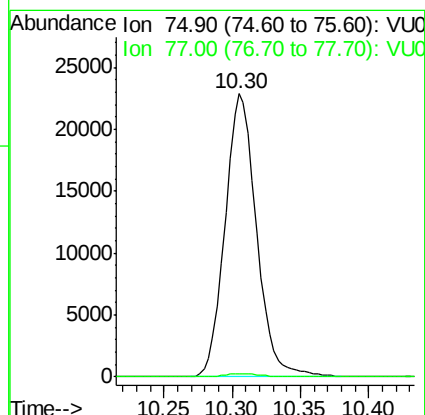
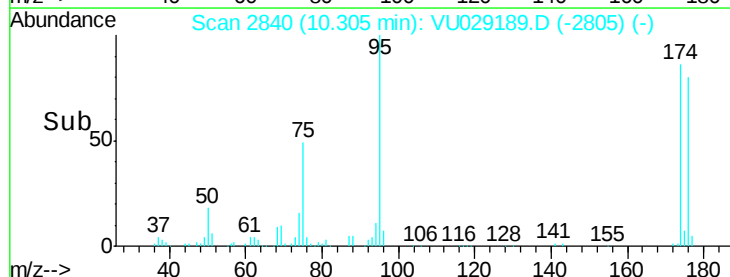
75 100

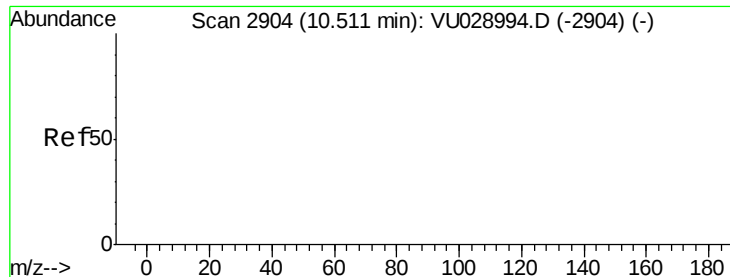
77 1.1 20.9 62.8#



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: 54.534 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029189.D

Acq: 15 Jan 2019 16:44

Instrument :

MSVOA_U

ClientSampled :

S-1

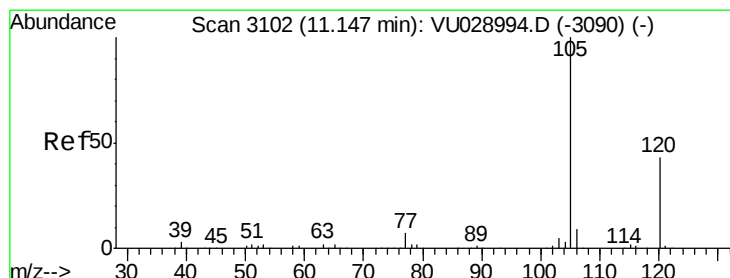
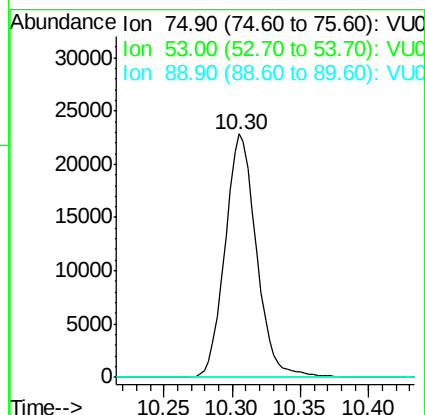
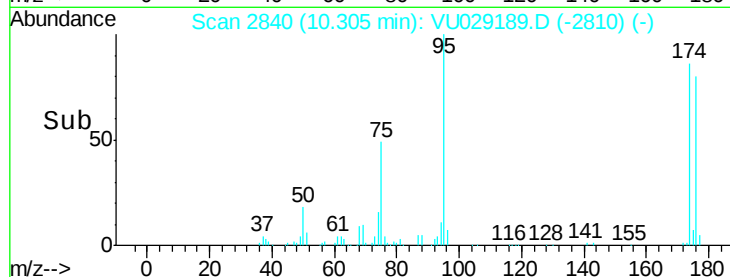
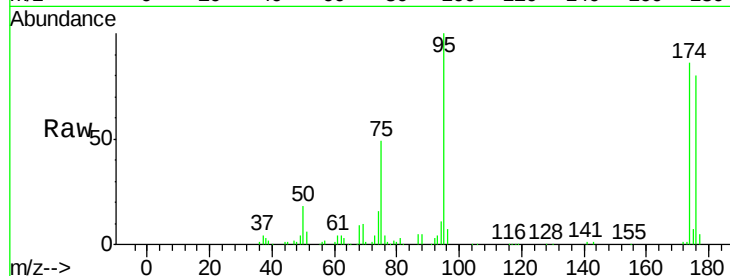
Tot Ion: 75 Resp: 36570

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



#84

1,2,4-Trimethylbenzene

Concen: 0.282 ug/l

RT: 11.15 min Scan# 3103

Delta R.T. 0.00 min

Lab File: VU029189.D

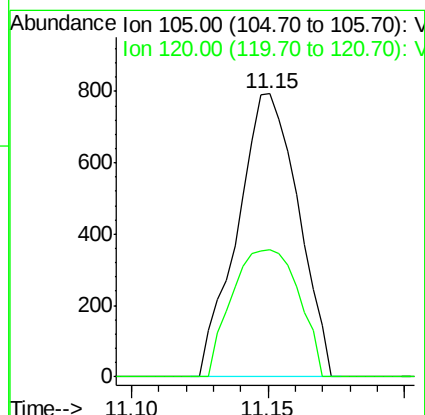
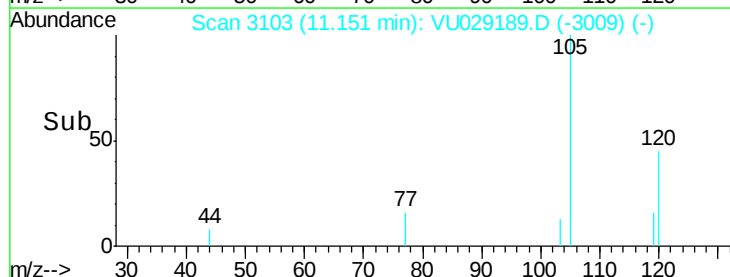
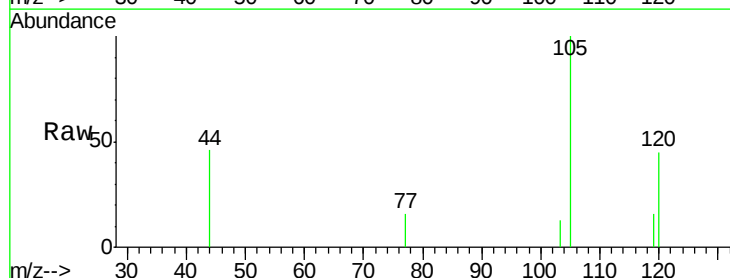
Acq: 15 Jan 2019 16:44

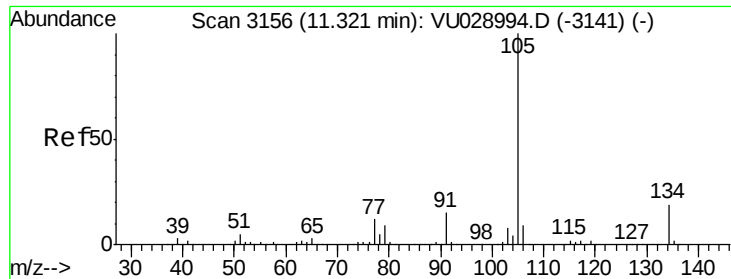
Tgt Ion: 105 Resp: 1229

Ion Ratio Lower Upper

105 100

120 49.4 23.1 69.3





#85

sec-Butylbenzene

Concen: 0.236 ug/l

RT: 11.15 min Scan# 3103

Delta R.T. -0.17 min

Lab File: VU029189.D

Acq: 15 Jan 2019 16:44

Instrument :

MSVOA_U

ClientSampleId :

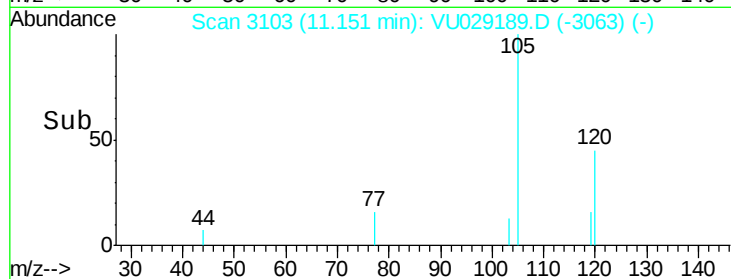
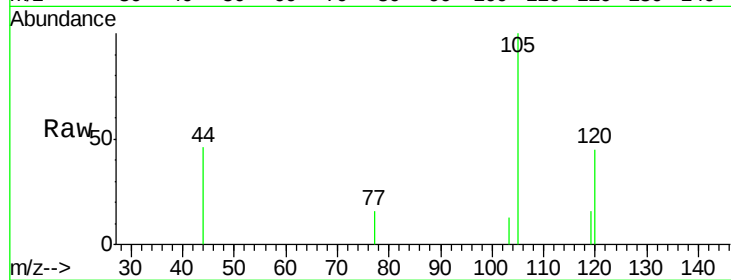
S-1

Tot Ion:105 Resp: 1229

Ion Ratio Lower Upper

105 100

134 0.0 9.7 29.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

