

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011519\
 Data File : VU029183.D
 Acq On : 15 Jan 2019 14:18
 Operator : JC/SP
 Sample : PB116371ZHE#05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#05

Quant Time: Jan 16 04:34:34 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	112427	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	201013	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	187277	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	73984	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	77547	55.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.60%	
35) Dibromofluoromethane	4.88	113	68518	52.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.16%	
50) Toluene-d8	7.56	98	258085	50.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.34%	
62) 4-Bromofluorobenzene	10.30	95	82307	44.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.04%	

Target Compounds

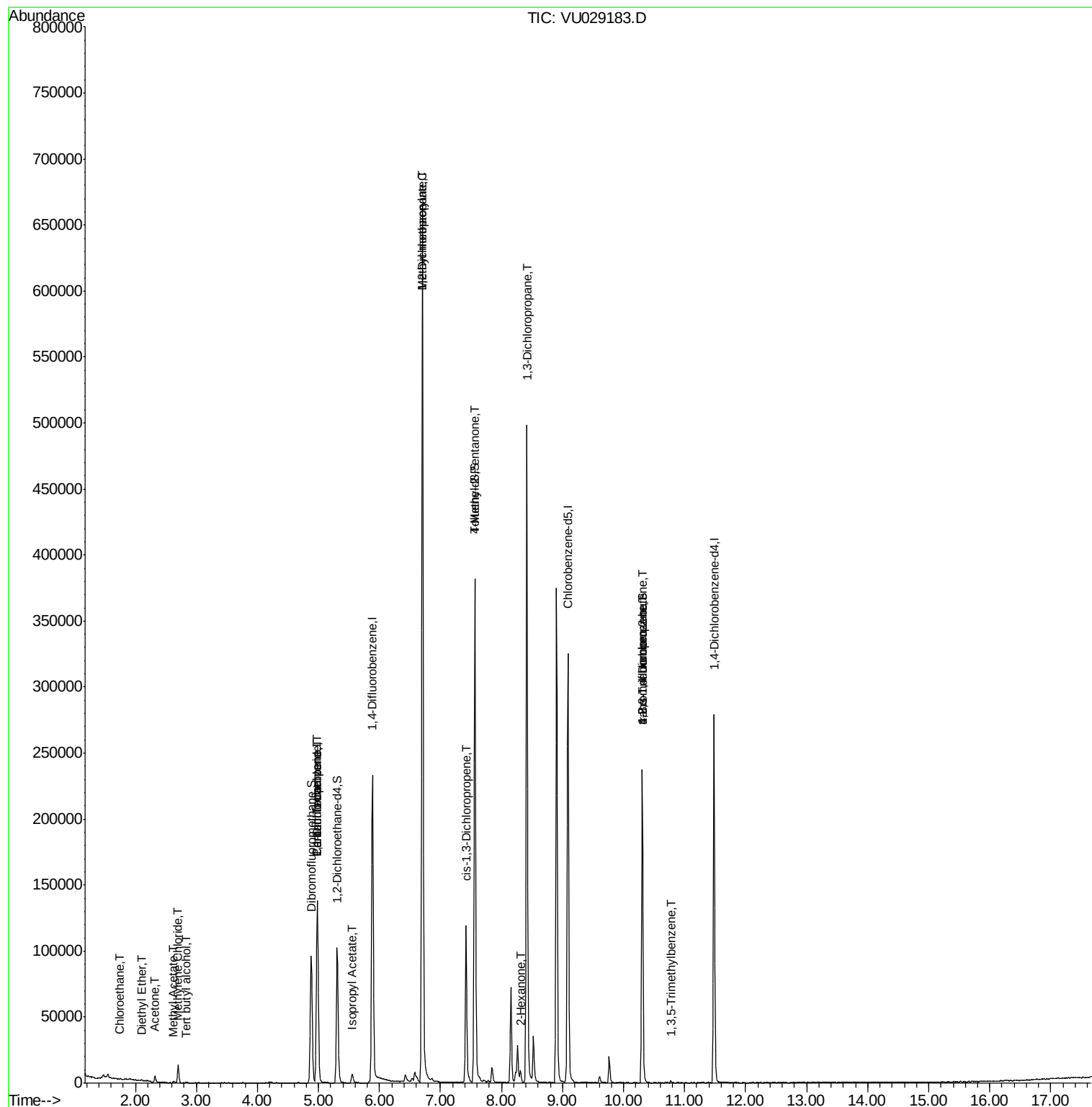
				Qvalue	
3) Chloromethane	1.33	50	875	Below Cal	# 84
6) Chloroethane	1.74	64	210	0.215 ug/l	# 43
8) Diethyl Ether	2.10	74	180	0.209 ug/l	# 14
11) Tert butyl alcohol	2.83	59	330	0.934 ug/l	# 73
16) Acetone	2.32	43	4988	5.697 ug/l	# 86
17) Carbon Disulfide	2.48	76	21	Below Cal	# 75
18) Methyl Acetate	2.63	43	1555	0.764 ug/l	# 81
20) Methylene Chloride	2.70	84	5998	4.035 ug/l	# 96
31) Cyclohexane	4.98	56	1867	Below Cal	# 1
36) 1,1-Dichloropropene	4.98	75	8064	4.014 ug/l	# 46
38) Carbon Tetrachloride	4.98	117	9788	5.841 ug/l	# 16
43) Isopropyl Acetate	5.55	43	8610	2.545 ug/l	# 95
45) 1,2-Dichloropropane	6.70	63	777	0.469 ug/l	# 43
48) Methyl methacrylate	6.70	41	55012	33.394 ug/l	# 36
51) 4-Methyl-2-Pentanone	7.56	43	4940	2.146 ug/l	# 100
54) cis-1,3-Dichloropropene	7.42	75	22388	8.854 ug/l	# 61
57) 1,3-Dichloropropane	8.41	76	5217	1.995 ug/l	# 42
59) 2-Hexanone	8.31	43	6865	3.798 ug/l	# 21
76) 1,2,3-Trichloropropane	10.30	75	38729	21.365 ug/l	# 35
80) 1,3,5-Trimethylbenzene	10.77	105	1204	0.263 ug/l	# 83
81) trans-1,4-Dichloro-2-buten	10.30	75	38729	55.102 ug/l	# 100

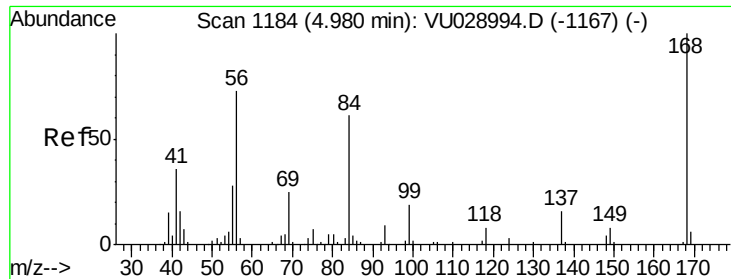
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1185

Delta R.T. 0.00 min

Lab File: VU029183.D

Acq: 15 Jan 2019 14:18

Instrument :

MSVOA_U

ClientSampleId :

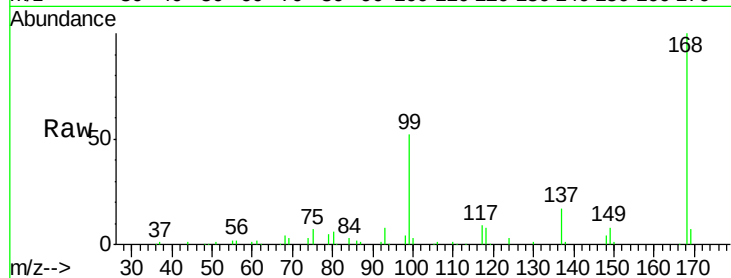
PB116371ZHE#05

Tot Ion:168 Resp: 112427

Ion Ratio Lower Upper

168 100

99 52.5 42.0 63.0

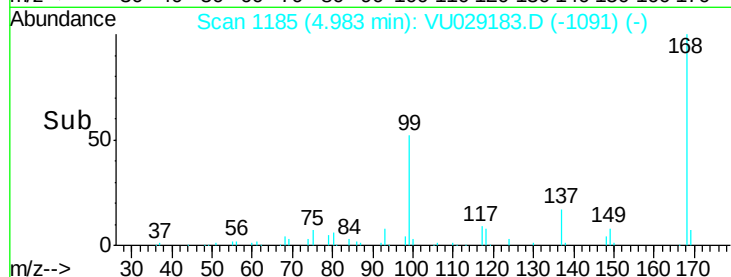


Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

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

4.98

Time-->



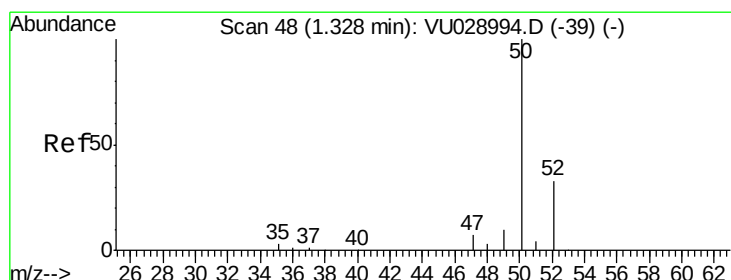
Abundance

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

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

4.98

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU029183.D

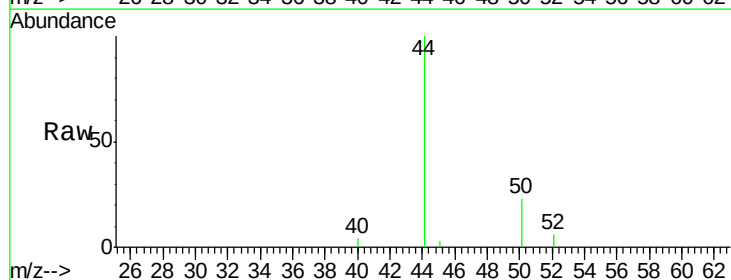
Acq: 15 Jan 2019 14:18

Tgt Ion: 50 Resp: 875

Ion Ratio Lower Upper

50 100

52 23.8 26.1 39.1#

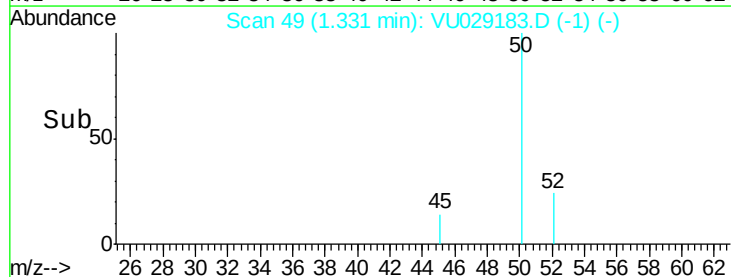


Abundance Ion 49.90 (49.60 to 50.60): VU028994.D (-39) (-)

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

1.33

Time-->



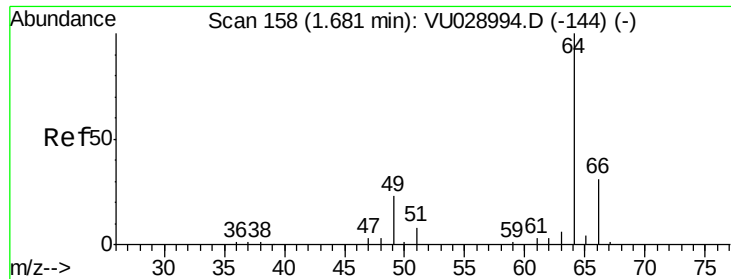
Abundance

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

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

1.33

Time-->



#6

Chloroethane

Concen: 0.215 ug/l

RT: 1.74 min Scan# 176

Delta R.T. 0.06 min

Lab File: VU029183.D

Acq: 15 Jan 2019 14:18

Instrument :

MSVOA_U

ClientSampleId :

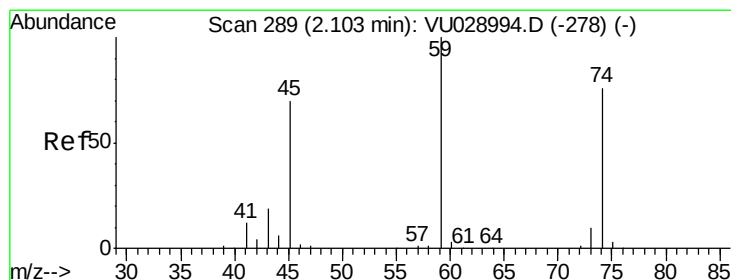
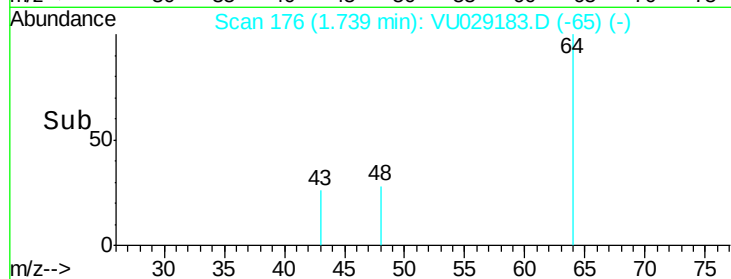
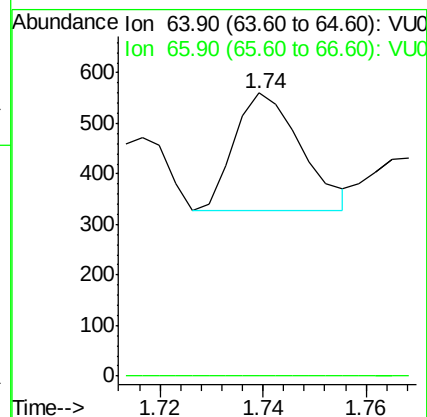
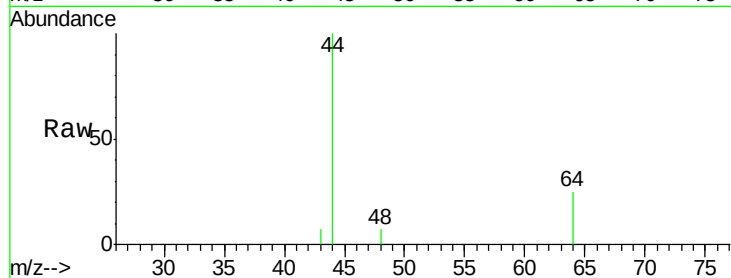
PB116371ZHE#05

Tot Ion: 64 Resp: 210

Ion Ratio Lower Upper

64 100

66 0.0 25.2 37.8#



#8

Diethyl Ether

Concen: 0.209 ug/l

RT: 2.10 min Scan# 289

Delta R.T. 0.00 min

Lab File: VU029183.D

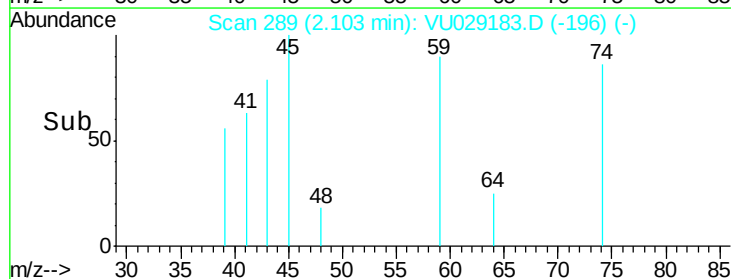
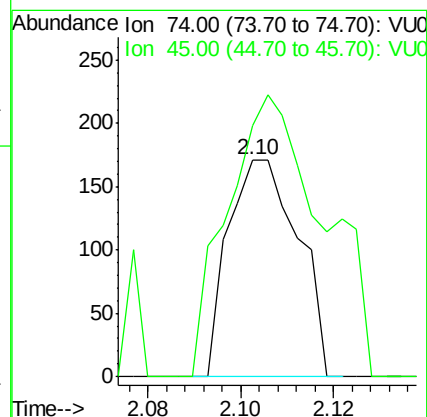
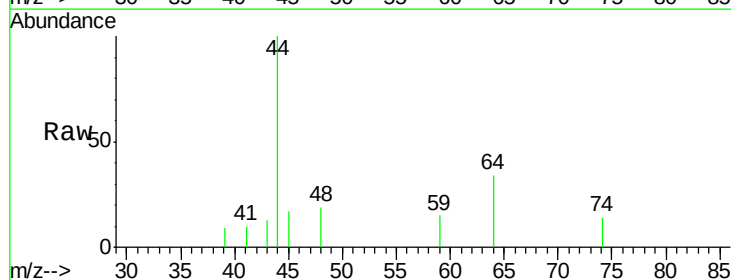
Acq: 15 Jan 2019 14:18

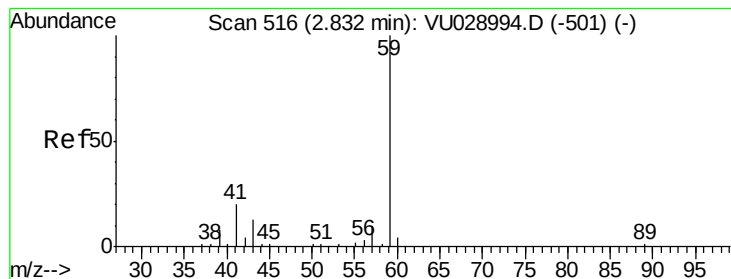
Tgt Ion: 74 Resp: 180

Ion Ratio Lower Upper

74 100

45 176.7 46.9 140.6#





#11

Tert butyl alcohol

Concen: 0.934 ug/l

RT: 2.83 min Scan# 516

Delta R.T. 0.00 min

Lab File: VU029183.D

Acq: 15 Jan 2019 14:18

Instrument :

MSVOA_U

ClientSampleId :

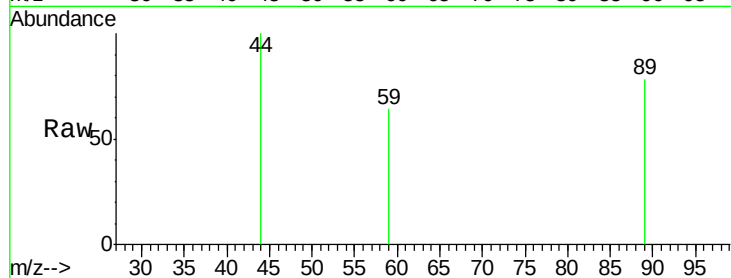
PB116371ZHE#05

Tot Ion: 59 Resp: 330

Ion Ratio Lower Upper

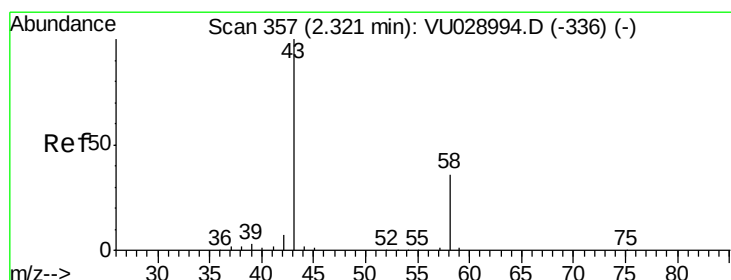
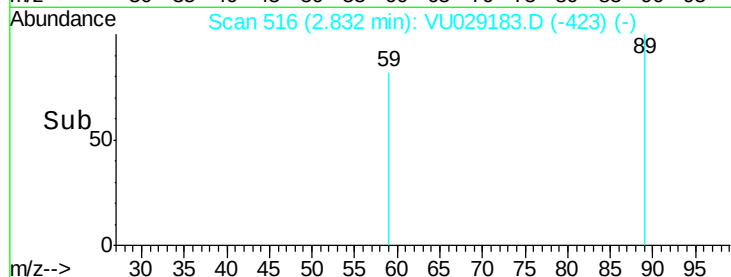
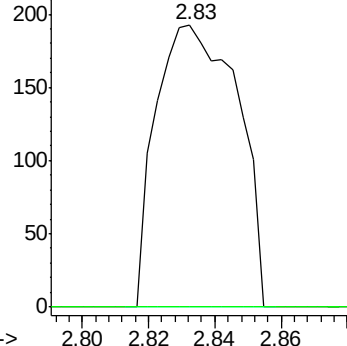
59 100

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



#16

Acetone

Concen: 5.697 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029183.D

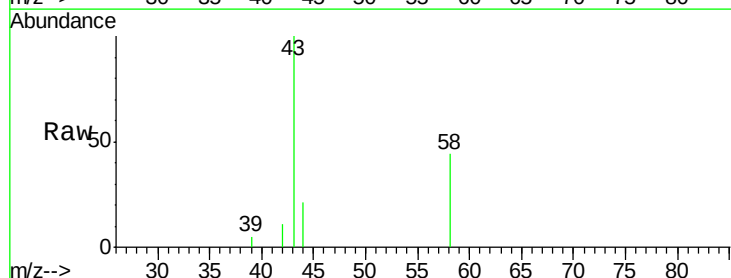
Acq: 15 Jan 2019 14:18

Tgt Ion: 43 Resp: 4988

Ion Ratio Lower Upper

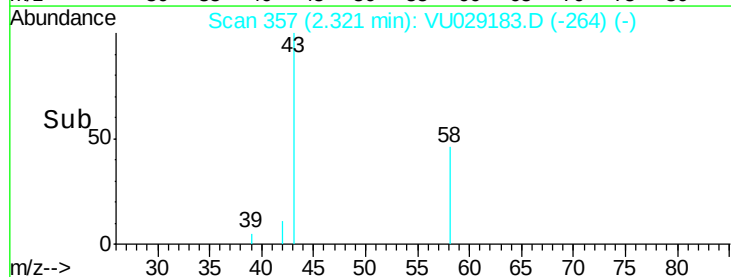
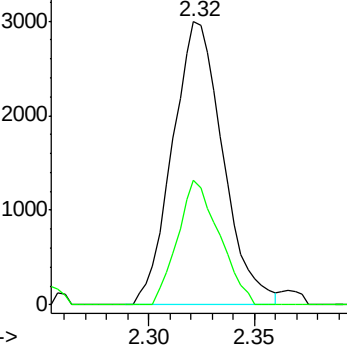
43 100

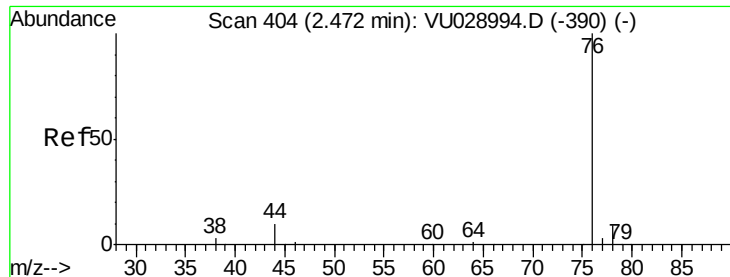
58 44.1 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 406

Delta R.T. 0.01 min

Lab File: VU029183.D

Acq: 15 Jan 2019 14:18

Instrument :

MSVOA_U

ClientSampleId :

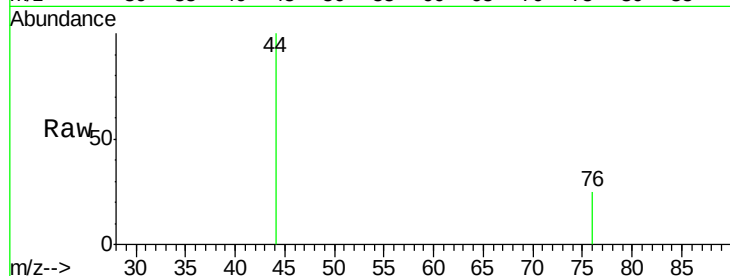
PB116371ZHE#05

Tot Ion: 76 Resp: 21

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

2.48

120

100

80

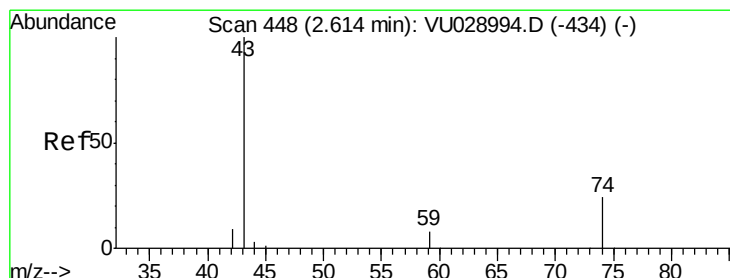
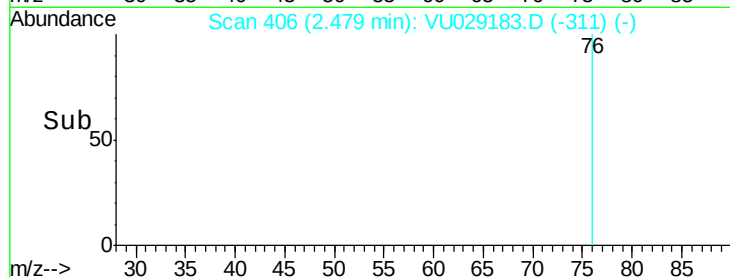
60

40

20

0

Time-->



#18

Methyl Acetate

Concen: 0.764 ug/l

RT: 2.63 min Scan# 452

Delta R.T. 0.01 min

Lab File: VU029183.D

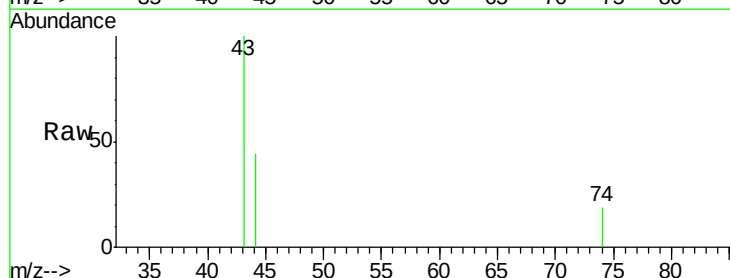
Acq: 15 Jan 2019 14:18

Tgt Ion: 43 Resp: 1555

Ion Ratio Lower Upper

43 100

74 14.9 19.5 29.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.63

800

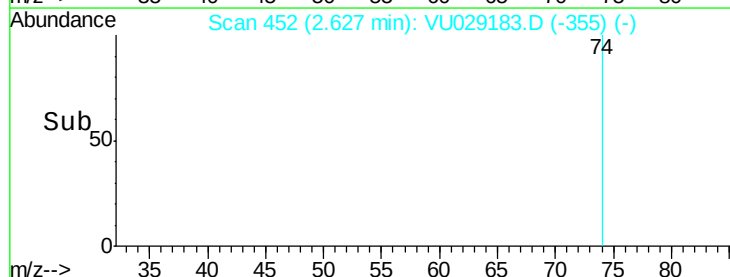
600

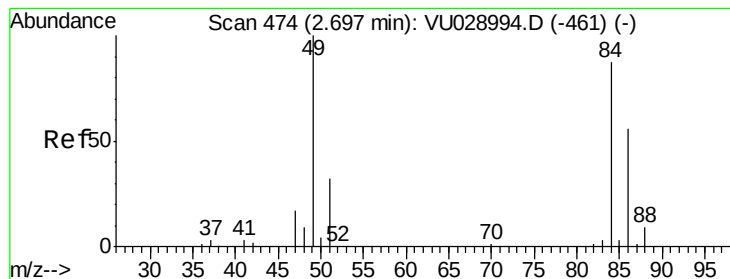
400

200

0

Time-->





#20

Methylene Chloride

Concen: 4.035 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.01 min

Lab File: VU029183.D

Acq: 15 Jan 2019 14:18

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#05

Tot Ion: 84 Resp: 5998

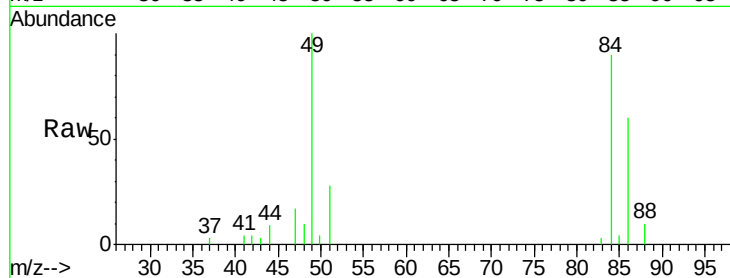
Ion Ratio Lower Upper

84 100

49 110.9 91.9 137.9

51 31.2 29.2 43.8

86 66.4 51.8 77.6

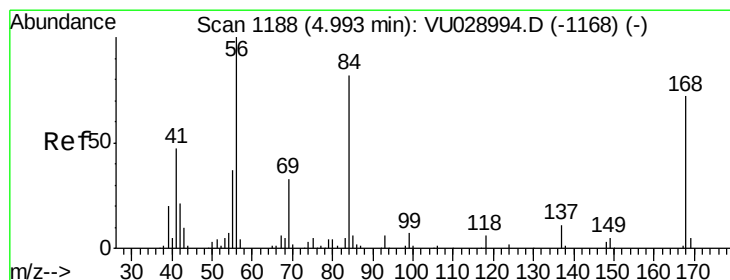
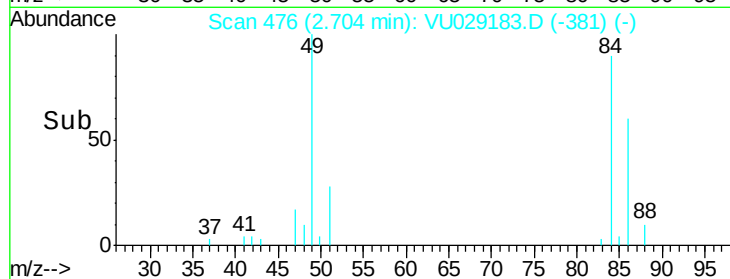
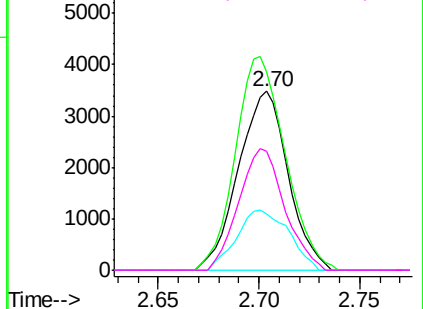


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VU029183.D

Acq: 15 Jan 2019 14:18

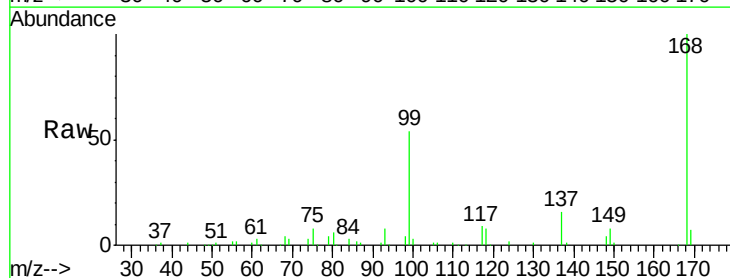
Tgt Ion: 56 Resp: 1867

Ion Ratio Lower Upper

56 100

69 172.4 26.7 40.1#

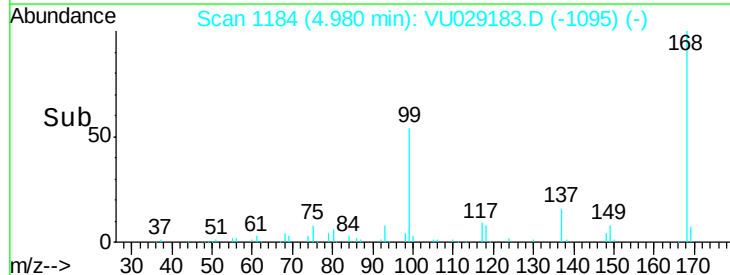
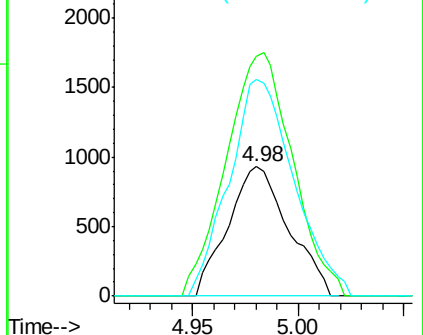
84 167.2 65.7 98.5#

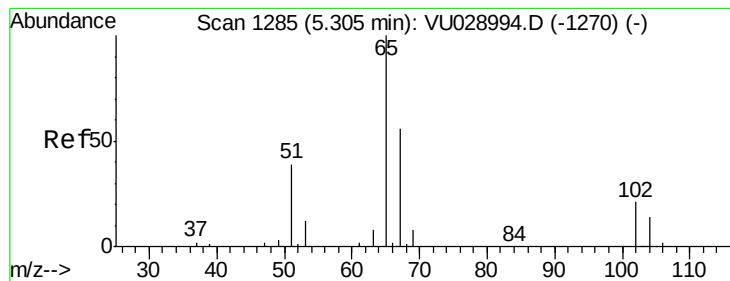


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0





#33

1,2-Dichloroethane-d4

Concen: 55.796 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VU029183.D

Acq: 15 Jan 2019 14:18

Instrument :

MSVOA_U

ClientSampleId :

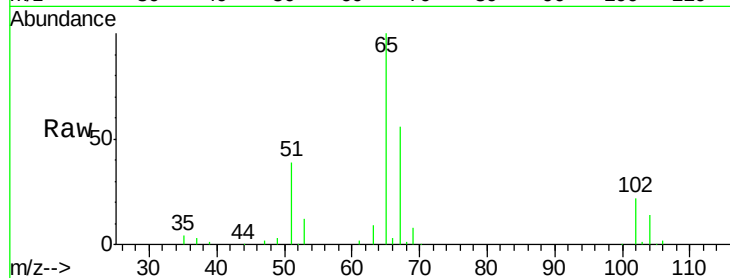
PB116371ZHE#05

Tot Ion: 65 Resp: 77547

Ion Ratio Lower Upper

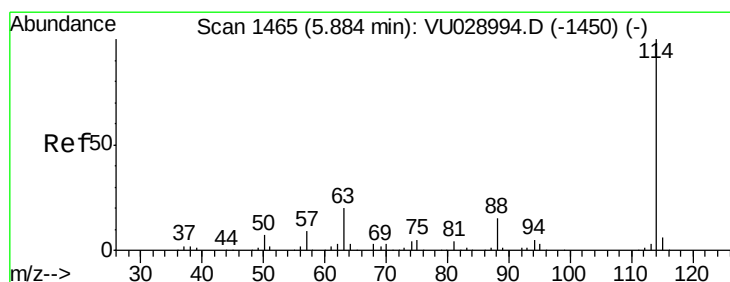
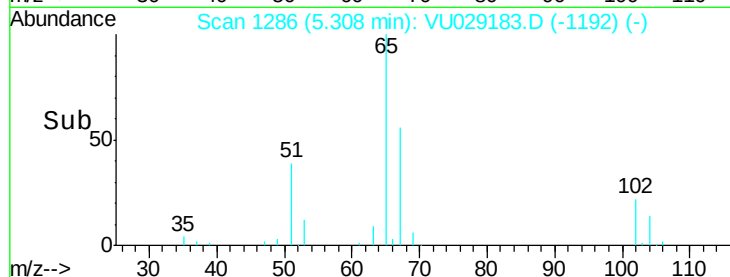
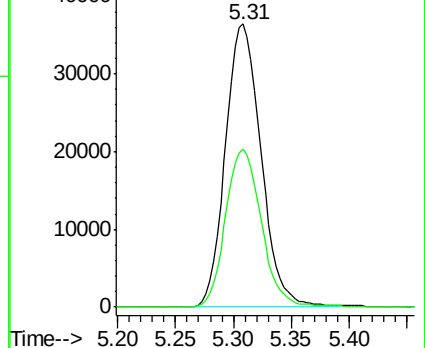
65 100

67 56.0 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.88 min Scan# 1465

Delta R.T. 0.00 min

Lab File: VU029183.D

Acq: 15 Jan 2019 14:18

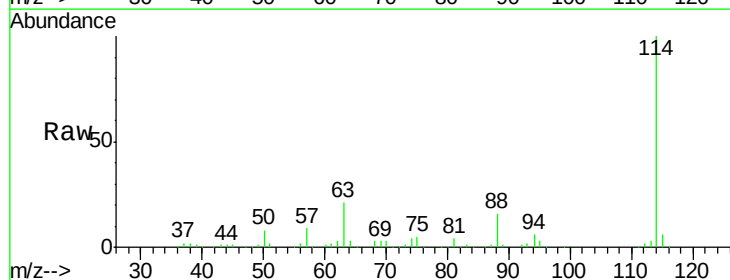
Tgt Ion: 114 Resp: 201013

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.2

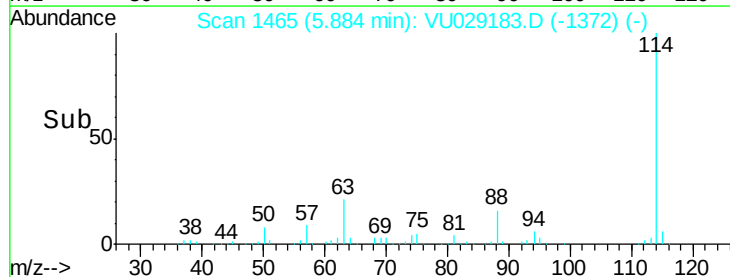
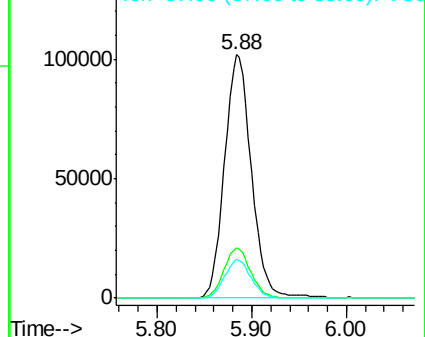
88 15.9 0.0 30.4

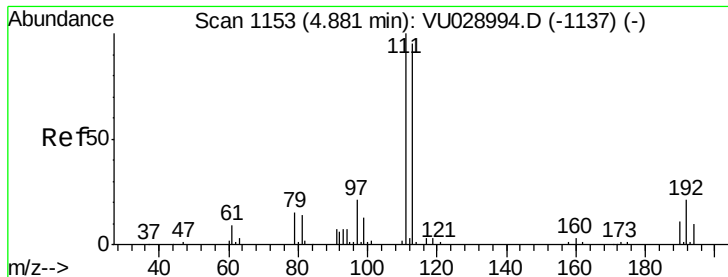


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0

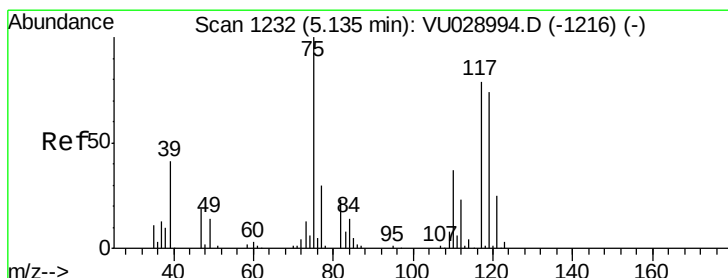
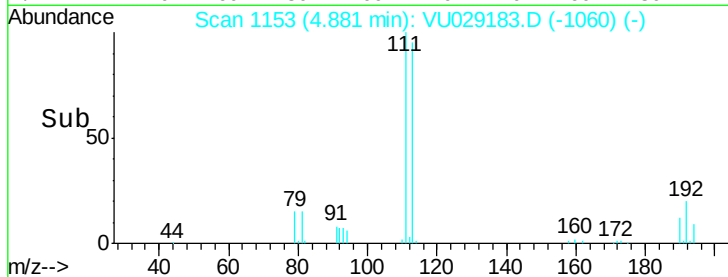
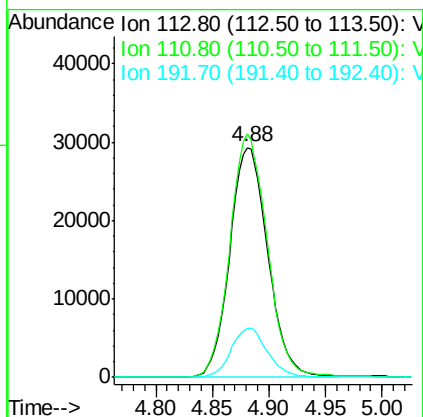
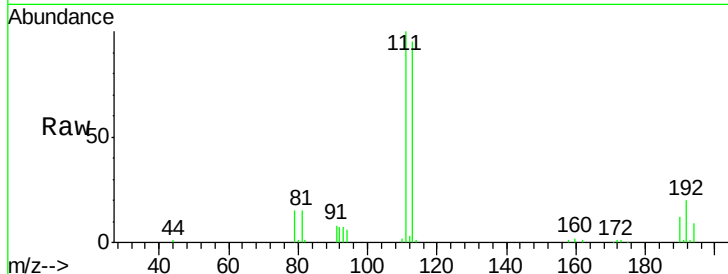




#35
 Dibromofluoromethane
 Concen: 52.584 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029183.D
 Acq: 15 Jan 2019 14:18

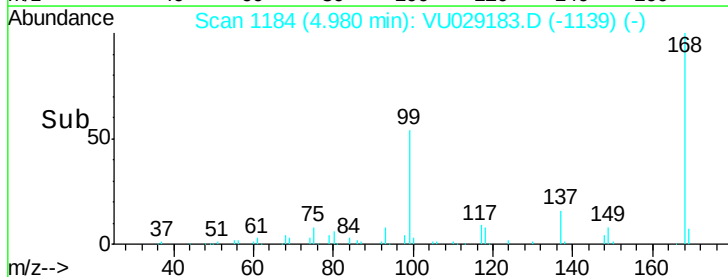
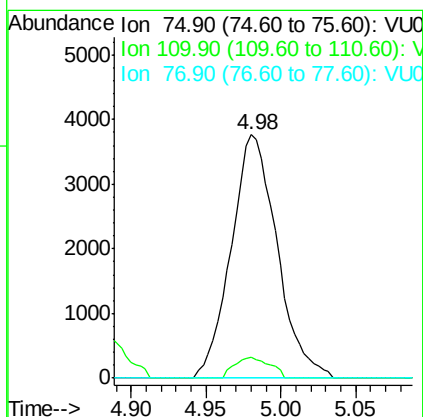
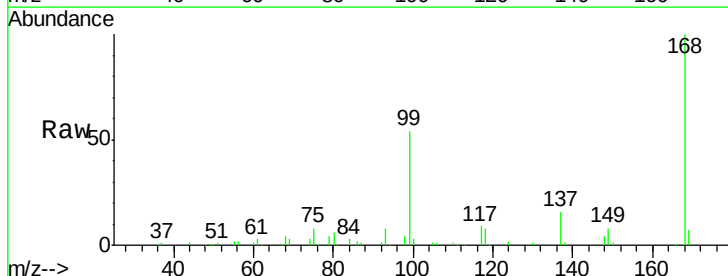
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#05

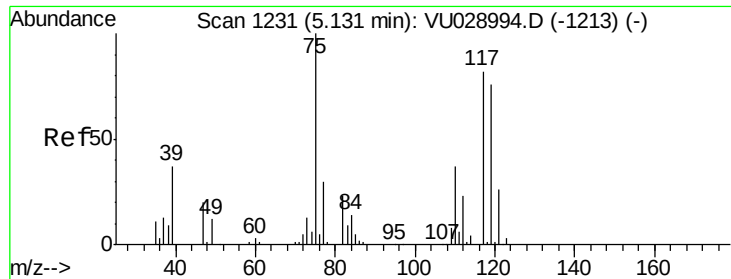
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.0	81.4	122.2
192	20.4	16.8	25.2



#36
 1,1-Dichloropropene
 Concen: 4.014 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029183.D
 Acq: 15 Jan 2019 14:18

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.6	18.4	55.4#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 5.841 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU029183.D

Acq: 15 Jan 2019 14:18

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#05

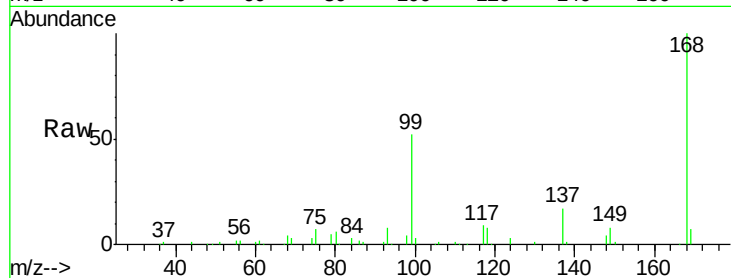
Tot Ion:117 Resp: 9788

Ion Ratio Lower Upper

117 100

119 3.4 74.6 111.8#

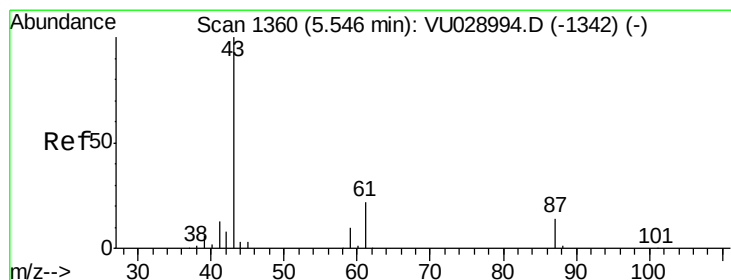
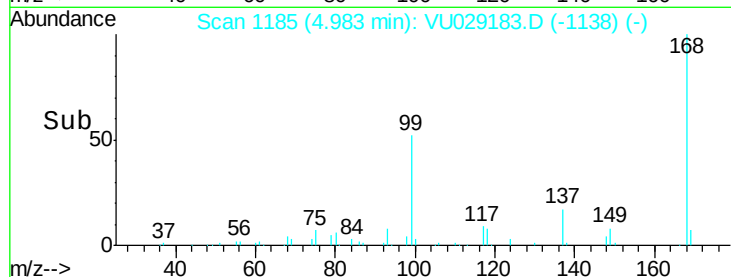
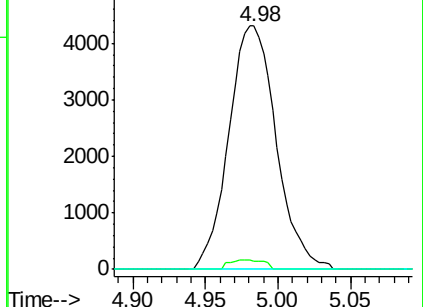
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.545 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029183.D

Acq: 15 Jan 2019 14:18

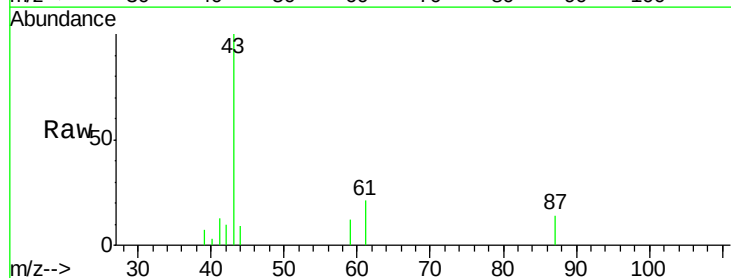
Tgt Ion: 43 Resp: 8610

Ion Ratio Lower Upper

43 100

61 19.1 17.8 26.6

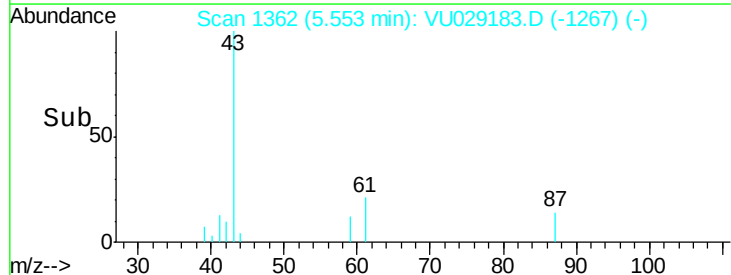
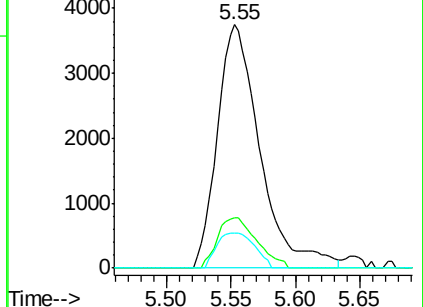
87 12.7 11.3 16.9

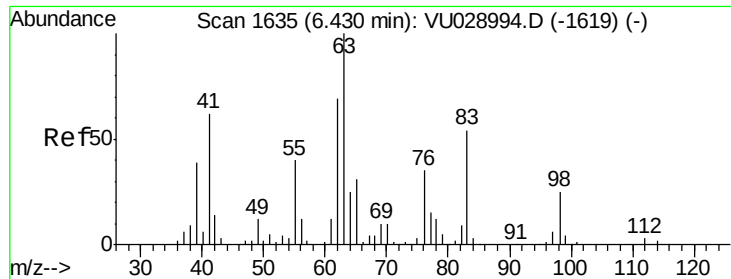


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

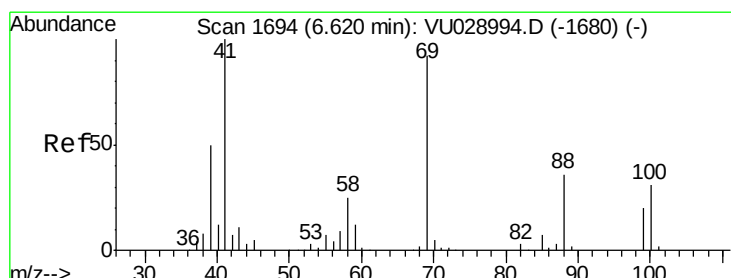
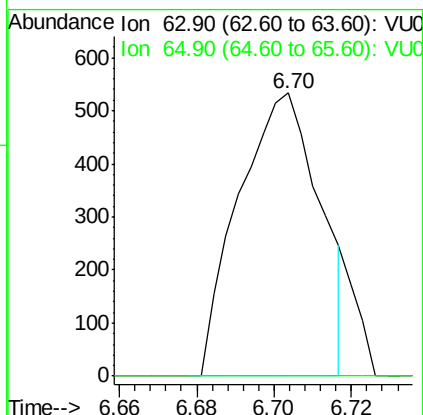
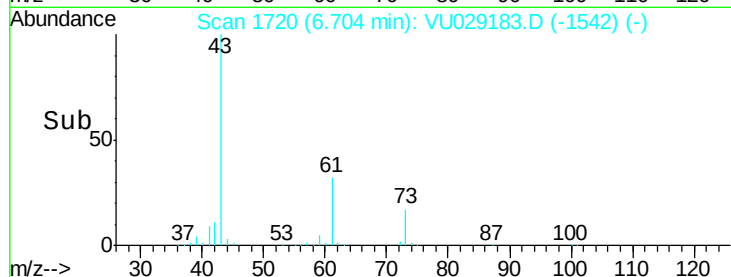
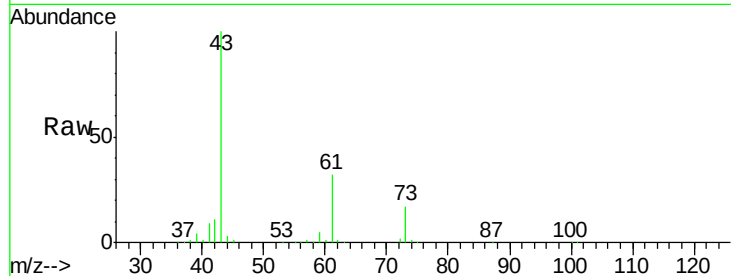




#45
 1,2-Dichloropropane
 Concen: 0.469 ug/l
 RT: 6.70 min Scan# 1720
 Delta R.T. 0.27 min
 Lab File: VU029183.D
 Acq: 15 Jan 2019 14:18

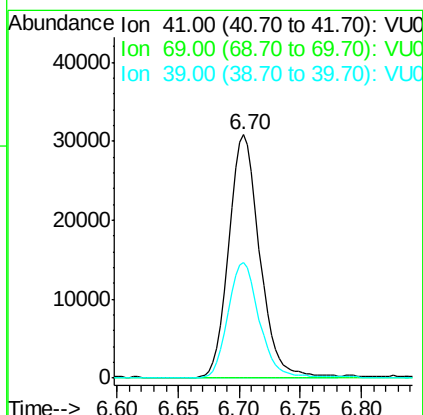
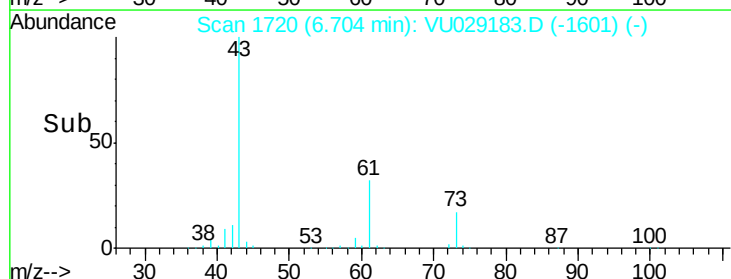
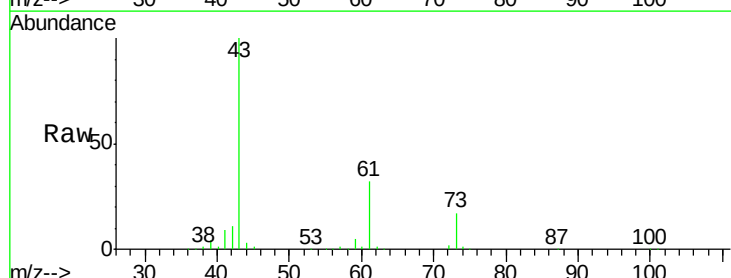
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#05

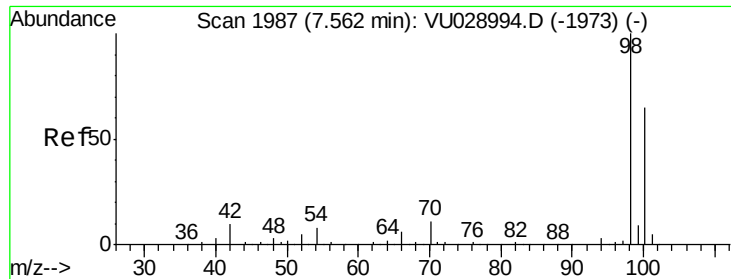
Tot Ion: 63 Resp: 777
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.1 37.7#



#48
 Methyl methacrylate
 Concen: 33.394 ug/l
 RT: 6.70 min Scan# 1720
 Delta R.T. 0.08 min
 Lab File: VU029183.D
 Acq: 15 Jan 2019 14:18

Tgt Ion: 41 Resp: 55012
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.6 110.4#
 39 47.9 39.6 59.4

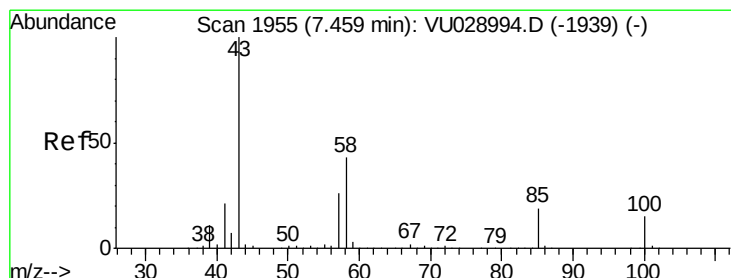
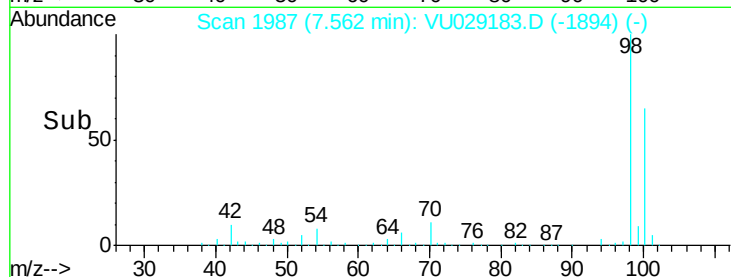
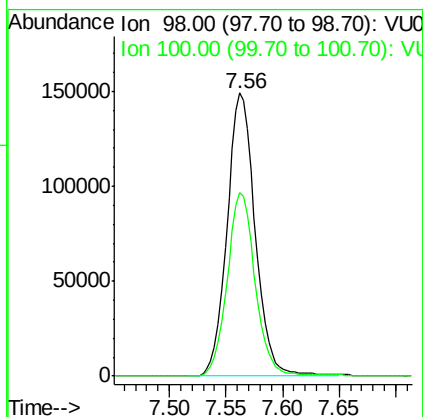
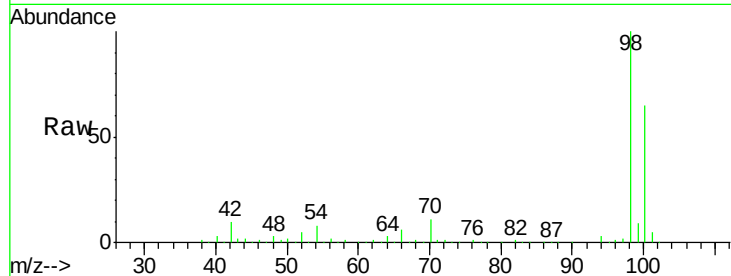




#50
Toluene-d8
Concen: 50.170 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029183.D
Acq: 15 Jan 2019 14:18

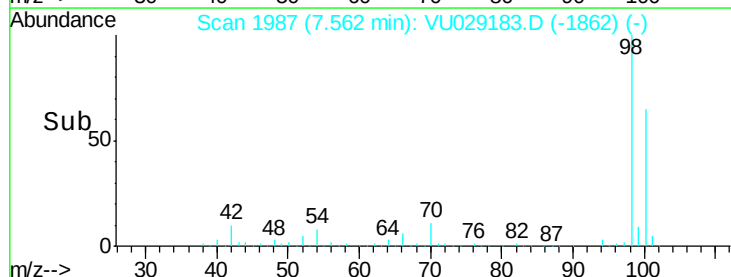
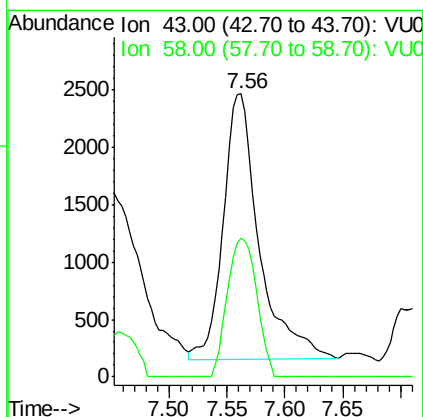
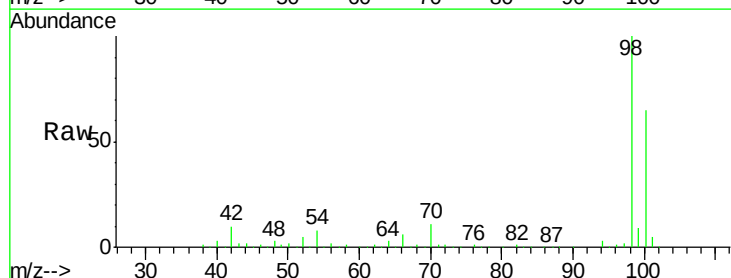
Instrument :
MSVOA_U
ClientSampleId :
PB116371ZHE#05

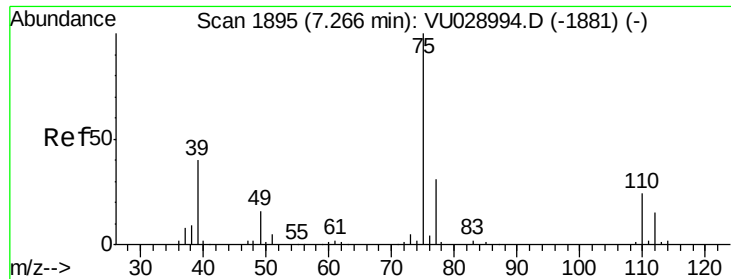
Tot Ion: 98 Resp: 258085
Ion Ratio Lower Upper
98 100
100 64.2 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 2.146 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.10 min
Lab File: VU029183.D
Acq: 15 Jan 2019 14:18

Tgt Ion: 43 Resp: 4940
Ion Ratio Lower Upper
43 100
58 42.7 33.9 50.9

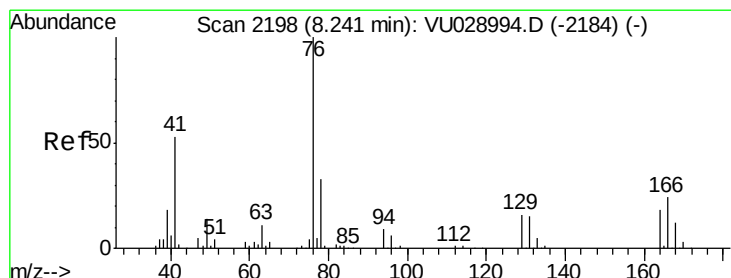
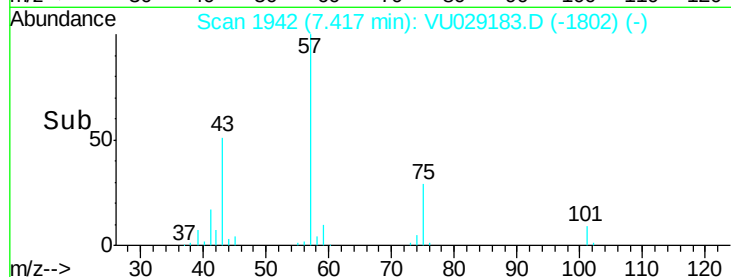
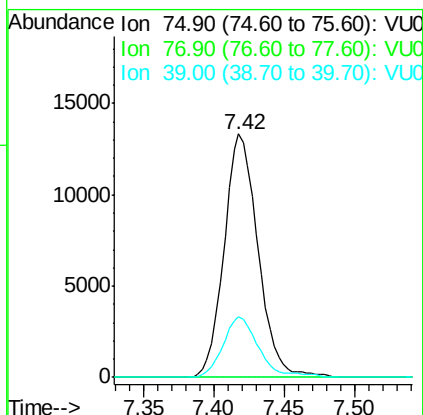
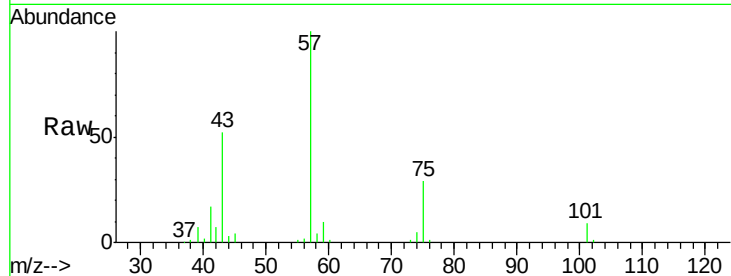




#54
 cis-1,3-Dichloropropene
 Concen: 8.854 ug/l
 RT: 7.42 min Scan# 1942
 Delta R.T. 0.15 min
 Lab File: VU029183.D
 Acq: 15 Jan 2019 14:18

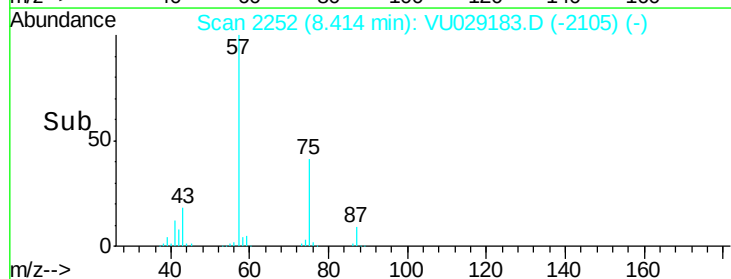
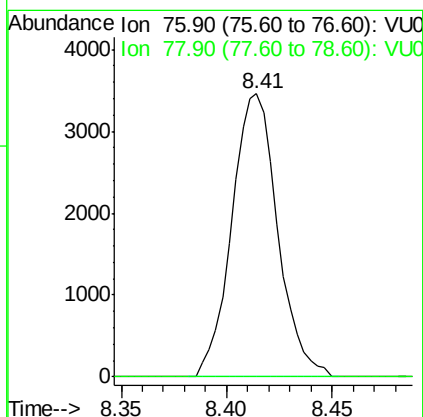
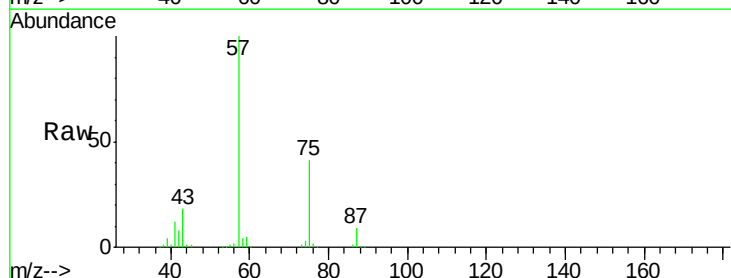
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#05

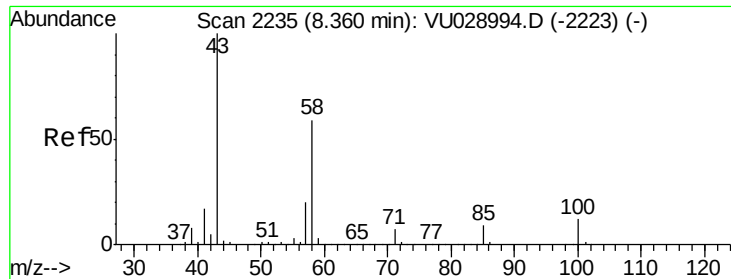
Tot Ion: 75 Resp: 22388
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 24.9 32.2 48.4#



#57
 1,3-Dichloropropane
 Concen: 1.995 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.17 min
 Lab File: VU029183.D
 Acq: 15 Jan 2019 14:18

Tgt Ion: 76 Resp: 5217
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#

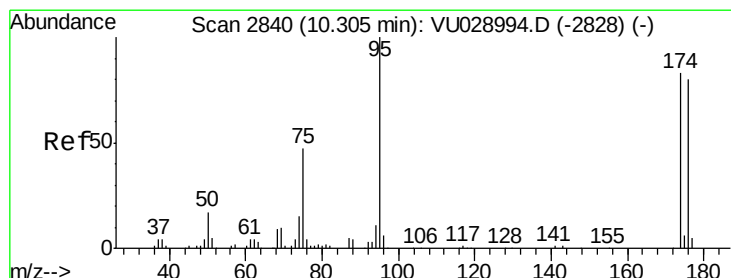
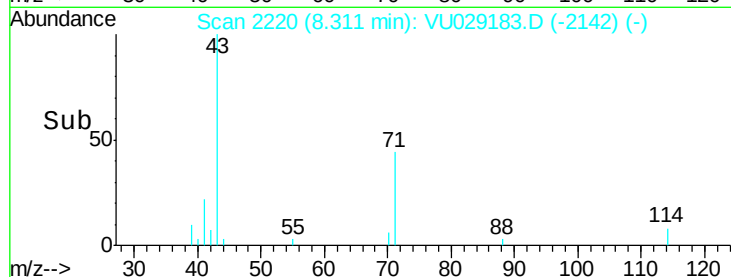
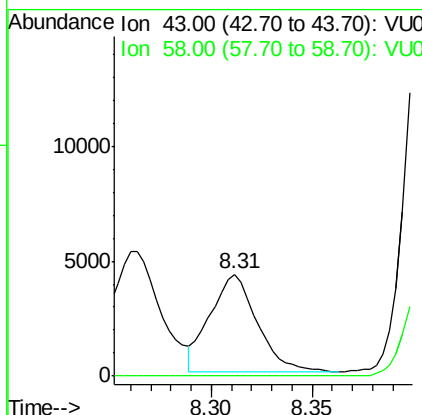
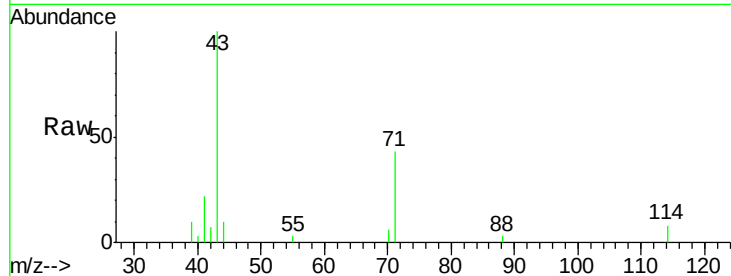




#59
2-Hexanone
Concen: 3.798 ug/l
RT: 8.31 min Scan# 2220
Delta R.T. -0.05 min
Lab File: VU029183.D
Acq: 15 Jan 2019 14:18

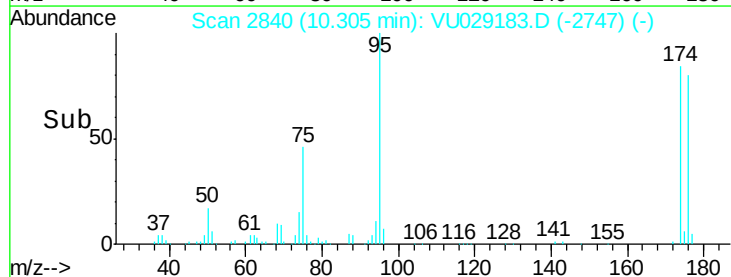
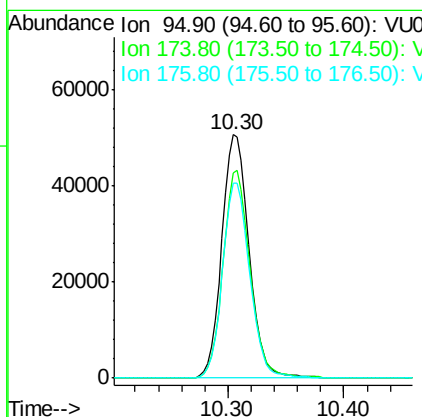
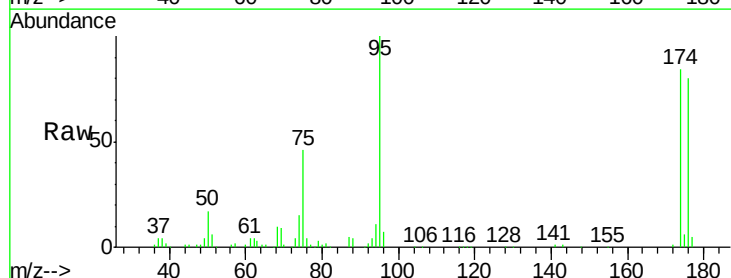
Instrument :
MSVOA_U
ClientSampleId :
PB116371ZHE#05

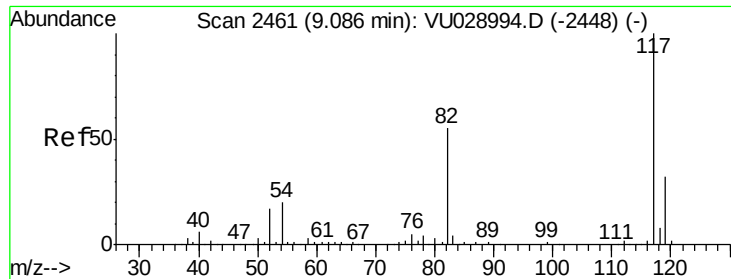
Tot Ion: 43 Resp: 6865
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.4#



#62
4-Bromofluorobenzene
Concen: 44.521 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029183.D
Acq: 15 Jan 2019 14:18

Tgt Ion: 95 Resp: 82307
Ion Ratio Lower Upper
95 100
174 84.4 0.0 170.6
176 80.1 0.0 165.0

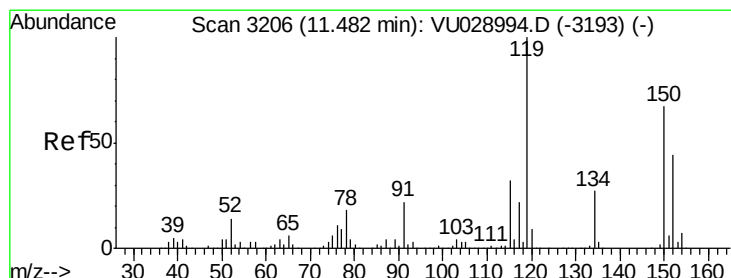
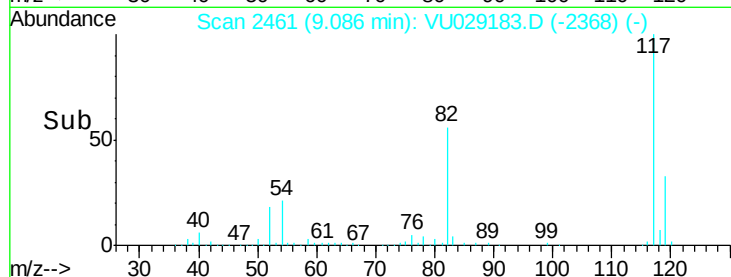
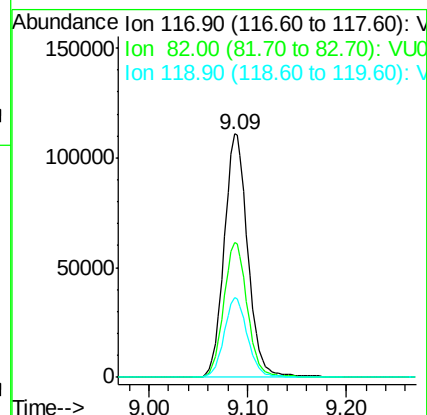
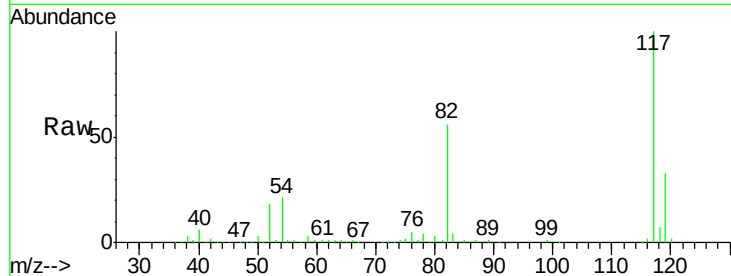




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029183.D
Acq: 15 Jan 2019 14:18

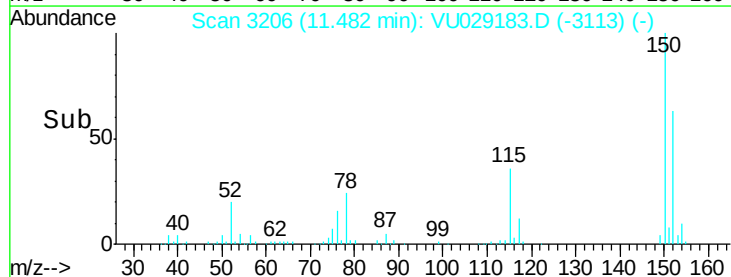
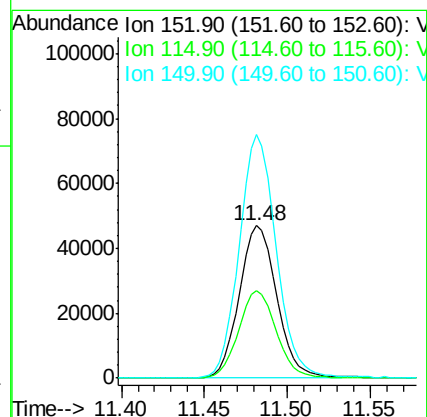
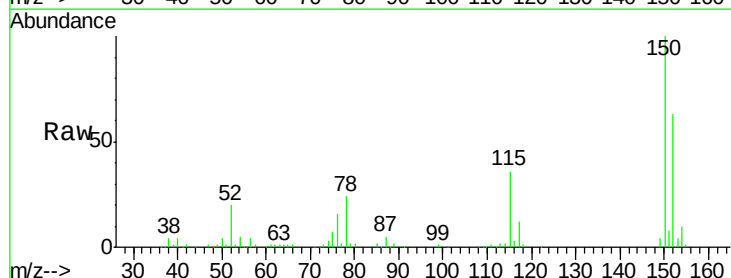
Instrument :
MSVOA_U
ClientSampleId :
PB116371ZHE#05

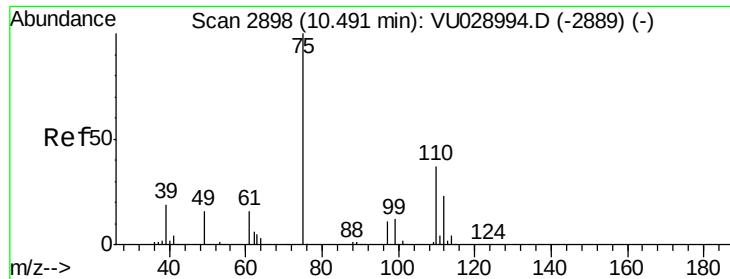
Tot Ion:117 Resp: 187277
Ion Ratio Lower Upper
117 100
82 55.6 43.9 65.9
119 32.8 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU029183.D
Acq: 15 Jan 2019 14:18

Tgt Ion:152 Resp: 73984
Ion Ratio Lower Upper
152 100
115 57.8 40.1 120.3
150 158.8 0.0 345.2

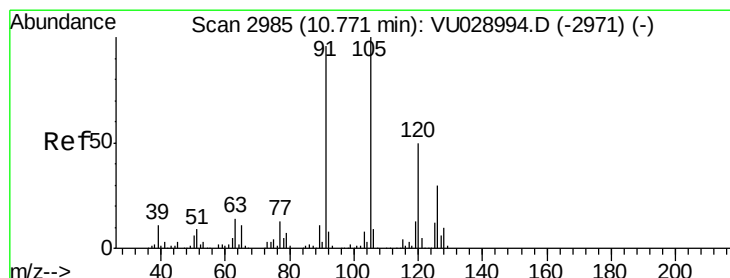
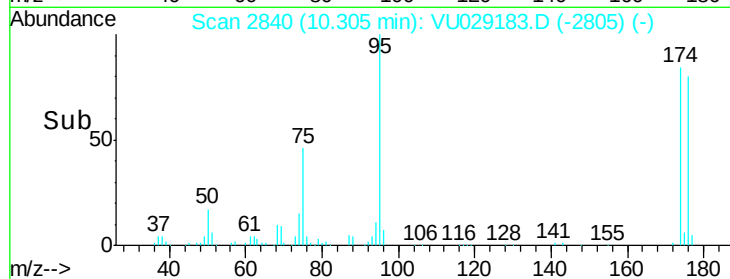
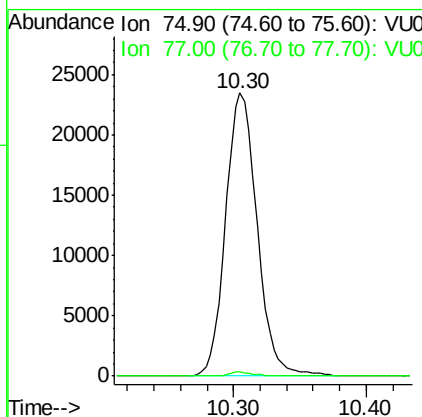
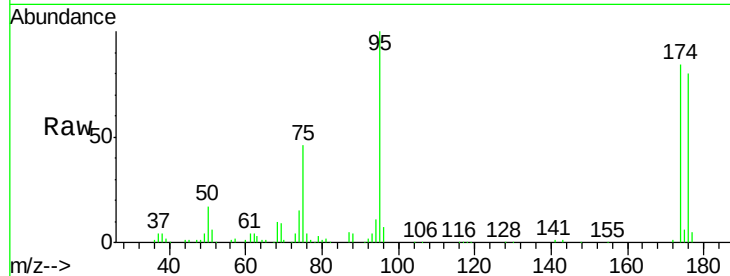




#76
 1,2,3-Trichloropropane
 Concen: 21.365 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU029183.D
 Acq: 15 Jan 2019 14:18

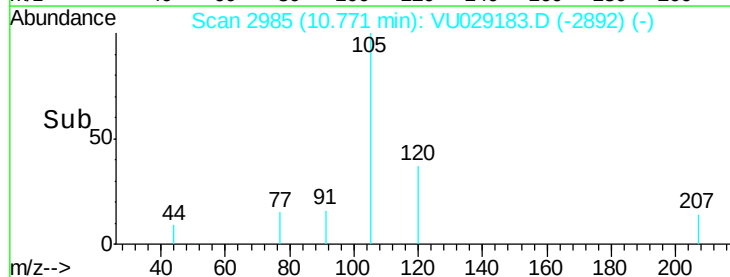
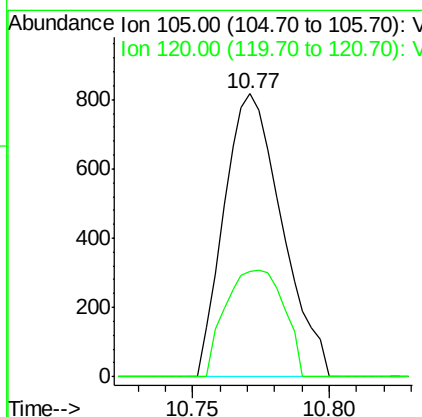
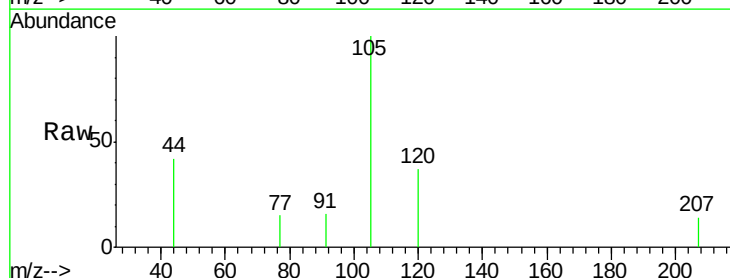
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116371ZHE#05

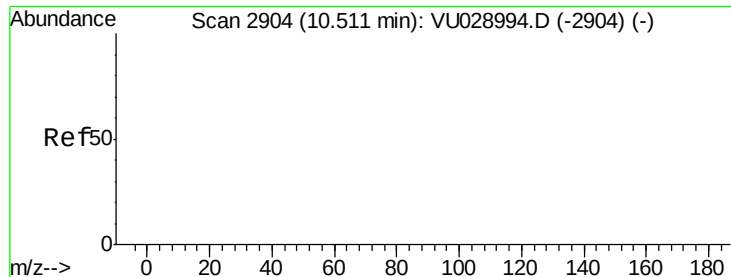
Tot Ion: 75 Resp: 38729
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.9 62.8#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.263 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. 0.00 min
 Lab File: VU029183.D
 Acq: 15 Jan 2019 14:18

Tgt Ion: 105 Resp: 1204
 Ion Ratio Lower Upper
 105 100
 120 38.0 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 55.102 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029183.D

Acq: 15 Jan 2019 14:18

Instrument :

MSVOA_U

ClientSampleId :

PB116371ZHE#05

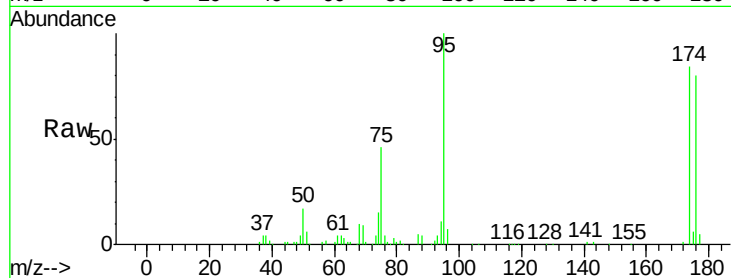
Tot Ion: 75 Resp: 38729

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 53.00 (52.70 to 53.70): VU0
Ion 88.90 (88.60 to 89.60): VU0

