

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121318\
 Data File : VU028625.D
 Acq On : 11 Dec 2018 22:28
 Operator : MD/SY
 Sample : J6195-06
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 OR-02-121018-A

Quant Time: Dec 12 04:14:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	82554	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	149813	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	137532	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	56323	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	71065	56.41	ug/l	0.00
Spiked Amount			Recovery	=	112.82%	
35) Dibromofluoromethane	4.88	113	50924	54.01	ug/l	0.00
Spiked Amount			Recovery	=	108.02%	
50) Toluene-d8	7.57	98	197390	52.93	ug/l	0.00
Spiked Amount			Recovery	=	105.86%	
62) 4-Bromofluorobenzene	10.30	95	66571	47.76	ug/l	0.00
Spiked Amount			Recovery	=	95.52%	

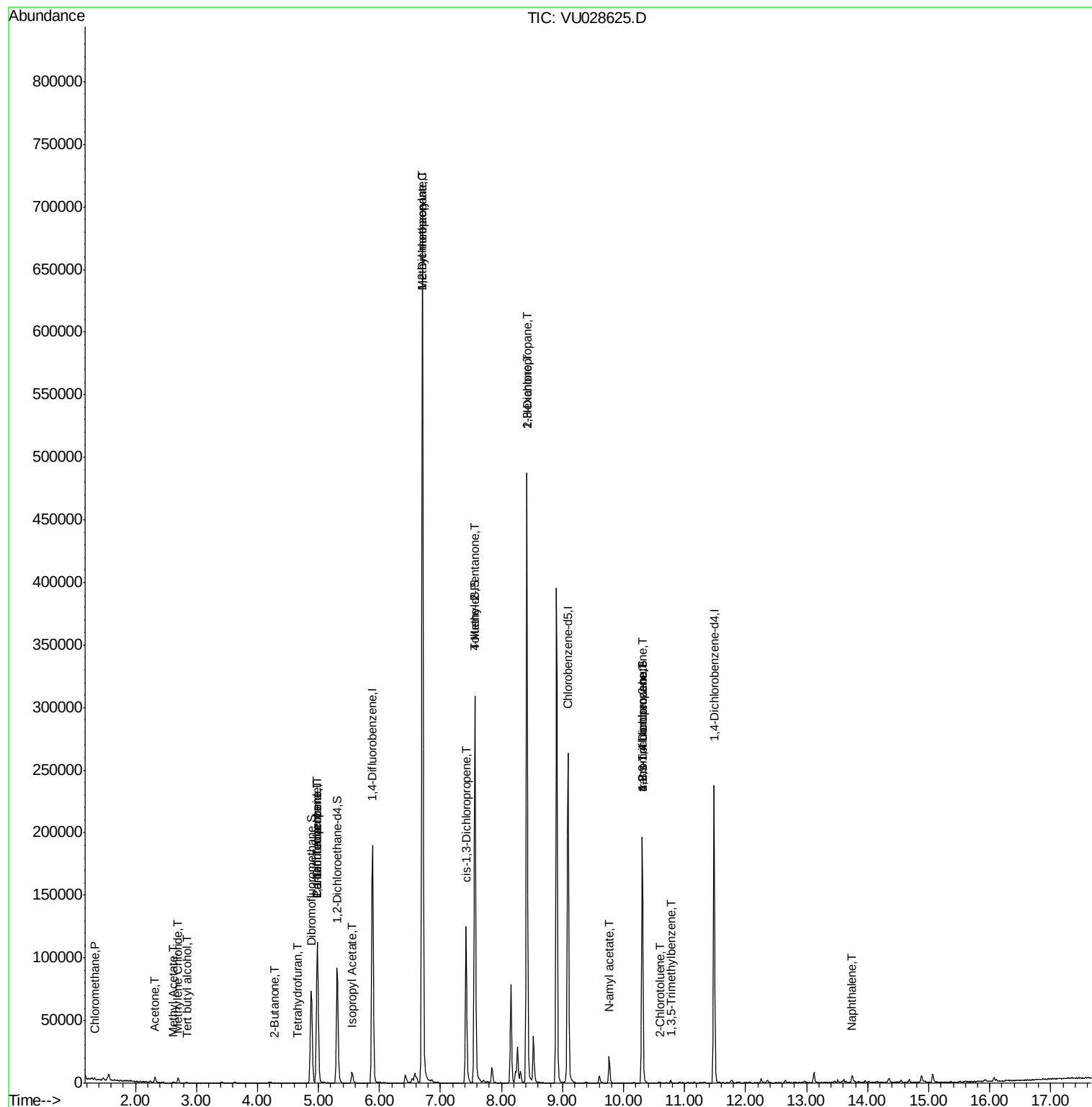
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1029	0.506	ug/l	93
11) Tert butyl alcohol	2.83	59	337	1.201	ug/l #	73
16) Acetone	2.32	43	5315	6.465	ug/l	93
18) Methyl Acetate	2.62	43	1201	0.564	ug/l #	64
20) Methylene Chloride	2.70	84	1677	1.384	ug/l	91
25) 2-Butanone	4.30	43	288	0.256	ug/l #	52
29) Tetrahydrofuran	4.66	42	226	0.313	ug/l #	37
31) Cyclohexane	4.98	56	2056	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7436	4.536	ug/l #	47
38) Carbon Tetrachloride	4.98	117	8407	6.362	ug/l #	15
43) Isopropyl Acetate	5.55	43	10258	3.060	ug/l	97
45) 1,2-Dichloropropane	6.70	63	755	0.556	ug/l #	44
48) Methyl methacrylate	6.70	41	60568	36.334	ug/l #	46
51) 4-Methyl-2-Pentanone	7.56	43	4841	2.290	ug/l	96
54) cis-1,3-Dichloropropene	7.42	75	20345	10.044	ug/l #	62
57) 1,3-Dichloropropane	8.41	76	4263	2.045	ug/l #	43
59) 2-Hexanone	8.41	43	71623	42.743	ug/l #	53
74) N-amyl acetate	9.76	43	7296	2.927	ug/l #	53
76) 1,2,3-Trichloropropane	10.30	75	35332	24.566	ug/l #	36
79) 2-Chlorotoluene	10.59	91	889	0.287	ug/l #	43
80) 1,3,5-Trimethylbenzene	10.77	105	1603	0.448	ug/l	83
81) trans-1,4-Dichloro-2-buten	10.30	75	35332	60.292	ug/l #	100
95) Naphthalene	13.75	128	5977	1.305	ug/l	96

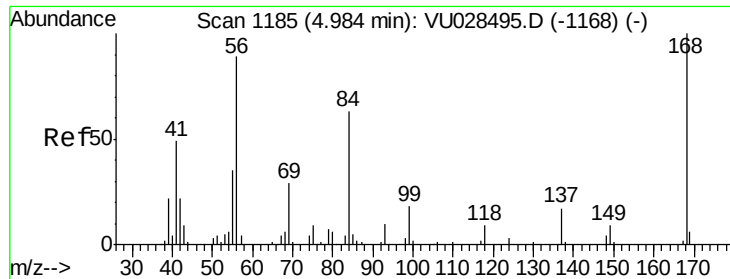
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 07 00:39:42 2018
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: VU028625.D

Acq: 11 Dec 2018 22:28

Instrument :

MSVOA_U

ClientSampleId :

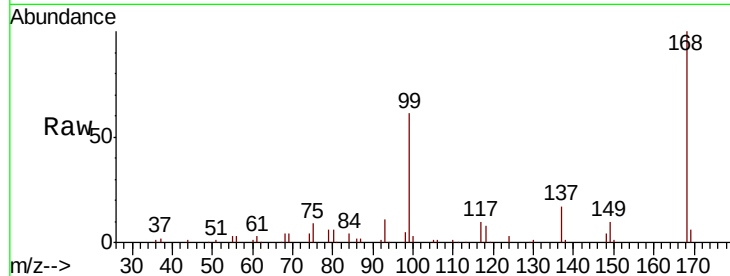
OR-02-121018-A

Tot Ion:168 Resp: 82554

Ion Ratio Lower Upper

168 100

99 61.4 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

40000

30000

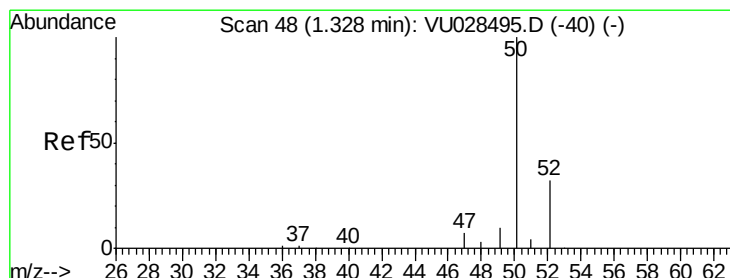
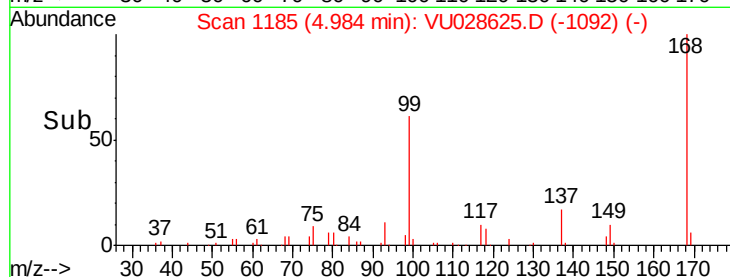
20000

10000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: 0.506 ug/l

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU028625.D

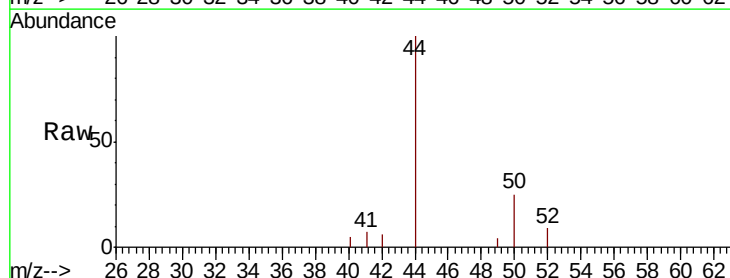
Acq: 11 Dec 2018 22:28

Tgt Ion: 50 Resp: 1029

Ion Ratio Lower Upper

50 100

52 35.8 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VU028495.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU028495.D (-40) (-)

1.33

800

600

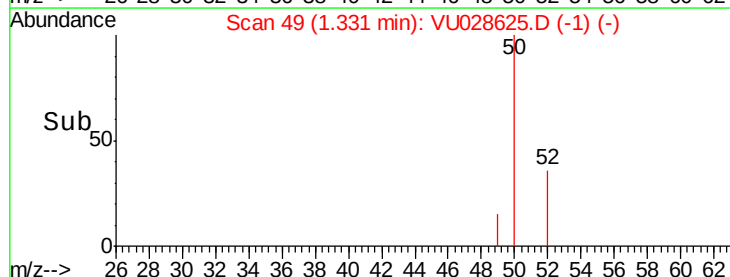
400

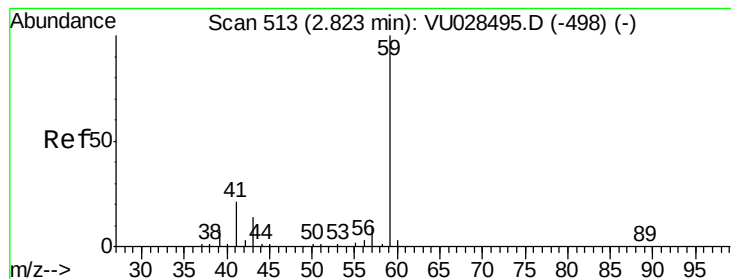
200

0

1.30 1.32 1.34 1.36

Time-->



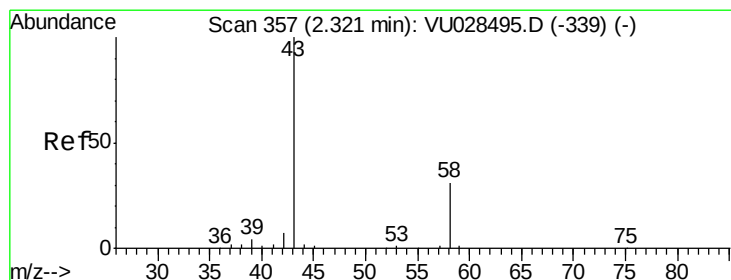
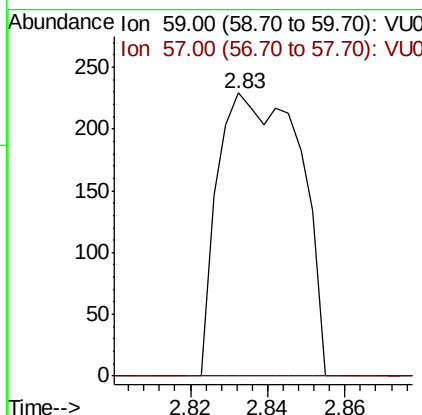
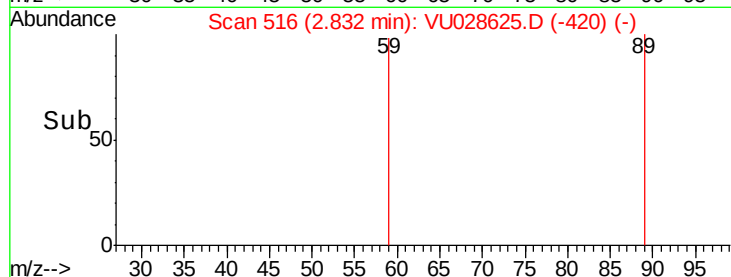
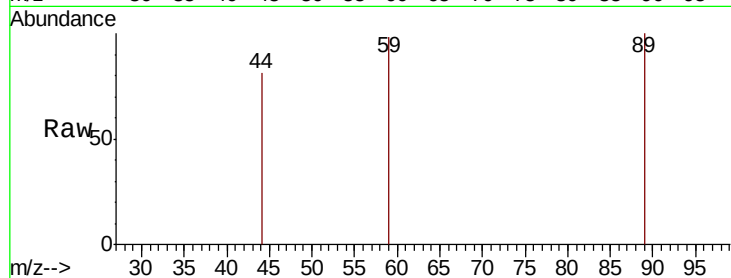


#11

Tert butyl alcohol
 Concen: 1.201 ug/l
 RT: 2.83 min Scan# 516
 Delta R.T. 0.01 min
 Lab File: VU028625.D
 Acq: 11 Dec 2018 22:28

Instrument :
 MSVOA_U
 ClientSampleId :
 OR-02-121018-A

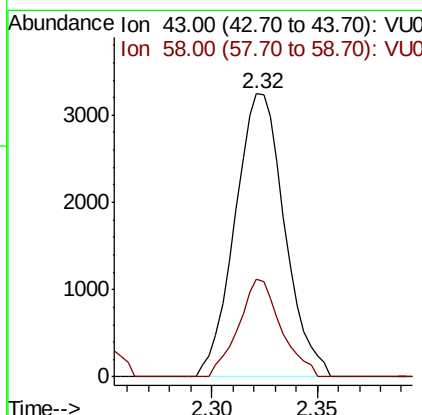
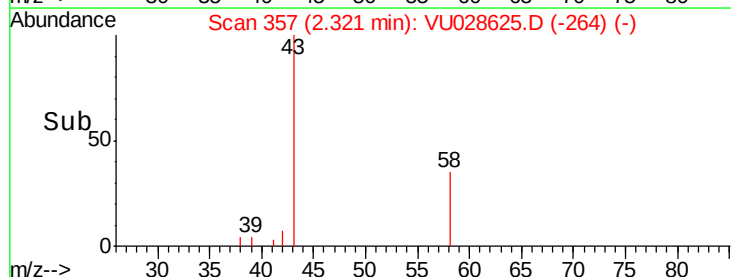
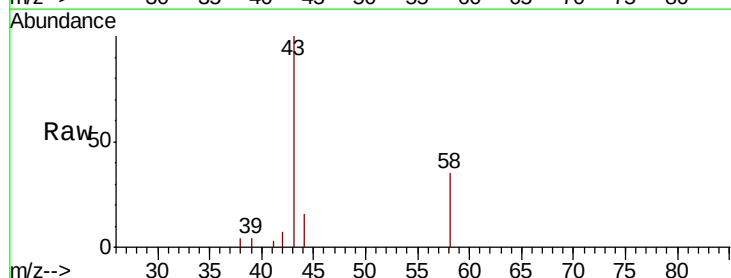
Tot Ion: 59 Resp: 337
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

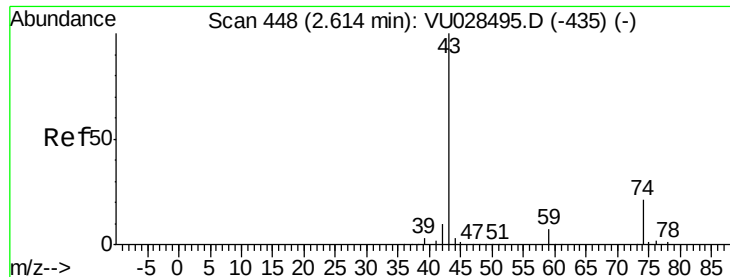


#16

Acetone
 Concen: 6.465 ug/l
 RT: 2.32 min Scan# 357
 Delta R.T. -0.00 min
 Lab File: VU028625.D
 Acq: 11 Dec 2018 22:28

Tgt Ion: 43 Resp: 5315
 Ion Ratio Lower Upper
 43 100
 58 34.8 24.6 37.0

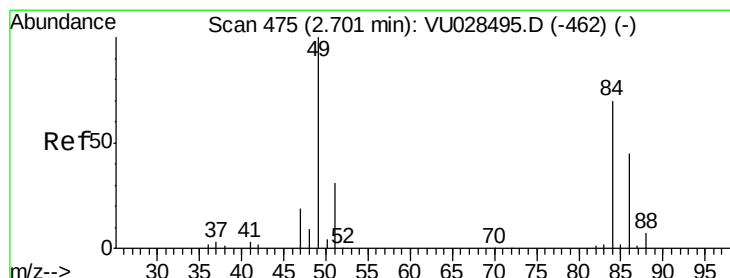
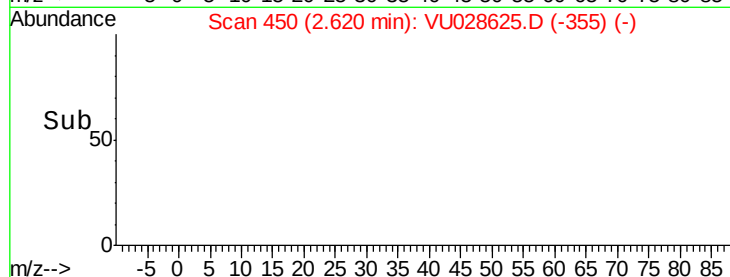
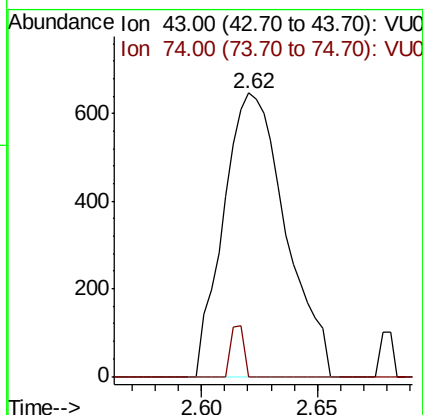
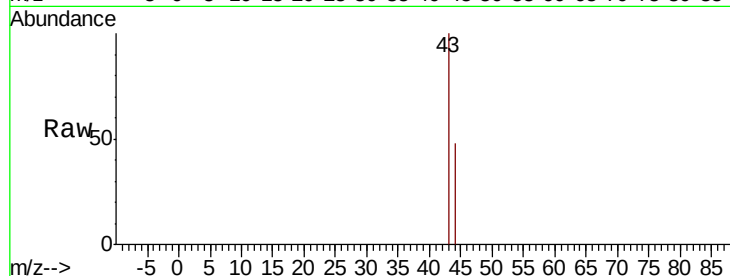




#18
Methyl Acetate
Concen: 0.564 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.01 min
Lab File: VU028625.D
Acq: 11 Dec 2018 22:28

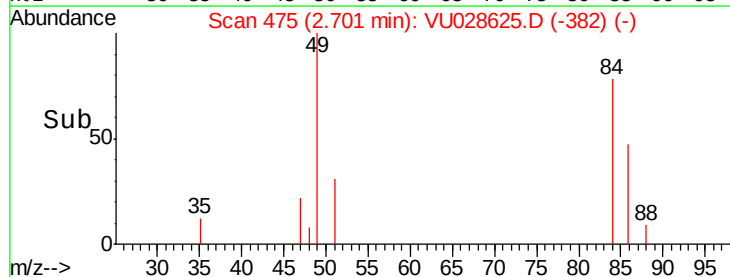
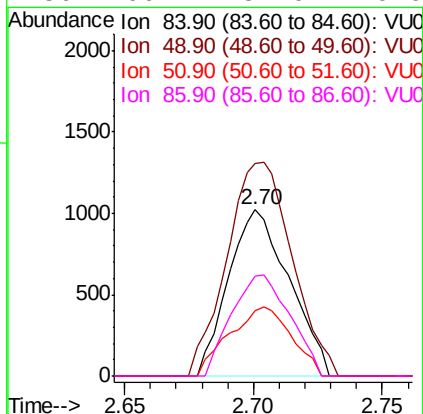
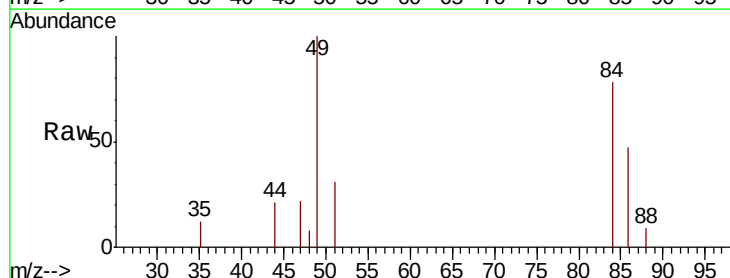
Instrument :
MSVOA_U
ClientSampleId :
OR-02-121018-A

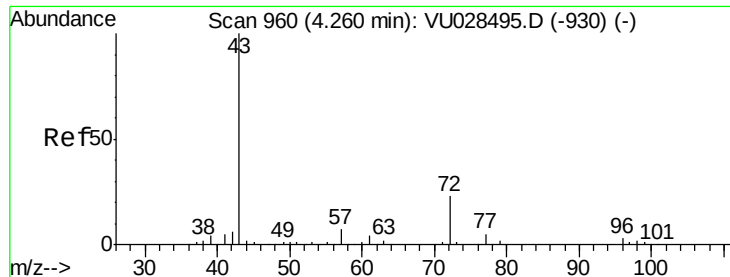
Tot Ion: 43 Resp: 1201
Ion Ratio Lower Upper
43 100
74 3.7 16.4 24.6#



#20
Methylene Chloride
Concen: 1.384 ug/l
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU028625.D
Acq: 11 Dec 2018 22:28

Tgt Ion: 84 Resp: 1677
Ion Ratio Lower Upper
84 100
49 128.2 114.0 171.0
51 39.1 35.1 52.7
86 60.4 51.0 76.6





#25

2-Butanone

Concen: 0.256 ug/l

RT: 4.30 min Scan# 972

Delta R.T. 0.04 min

Lab File: VU028625.D

Acq: 11 Dec 2018 22:28

Instrument :

MSVOA_U

ClientSampleId :

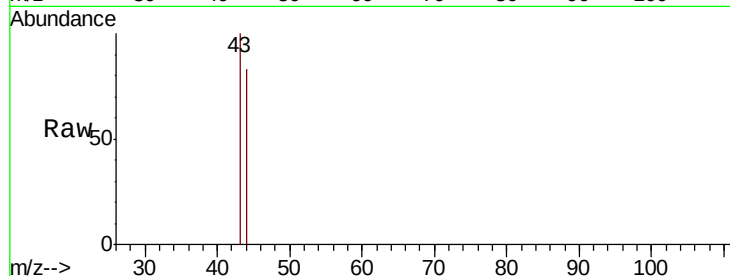
OR-02-121018-A

Tot Ion: 43 Resp: 288

Ion Ratio Lower Upper

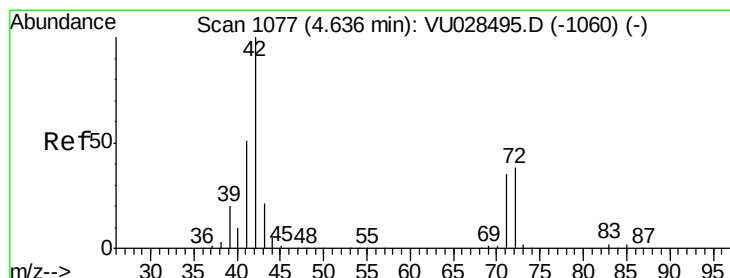
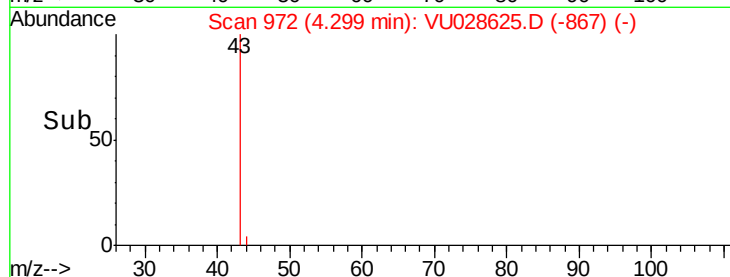
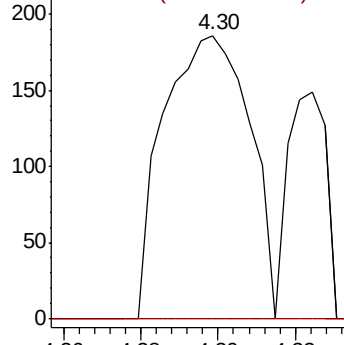
43 100

72 0.0 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#29

Tetrahydrofuran

Concen: 0.313 ug/l

RT: 4.66 min Scan# 1085

Delta R.T. 0.03 min

Lab File: VU028625.D

Acq: 11 Dec 2018 22:28

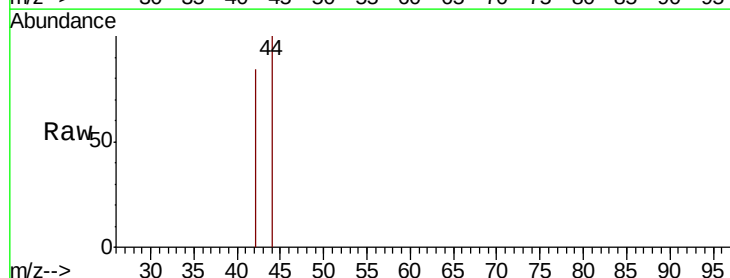
Tgt Ion: 42 Resp: 226

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

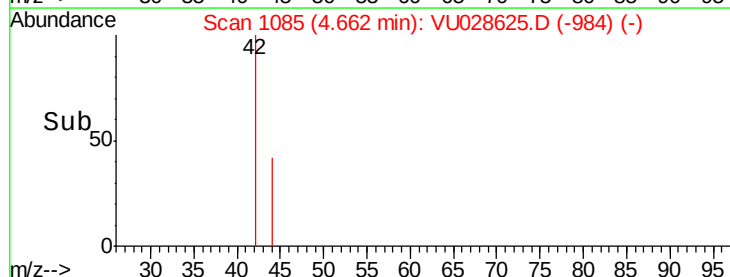
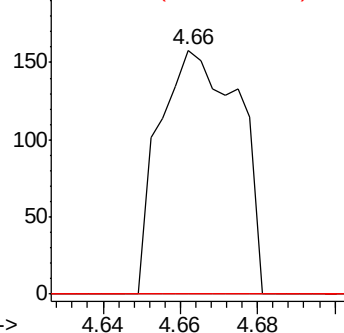
71 0.0 28.6 43.0#

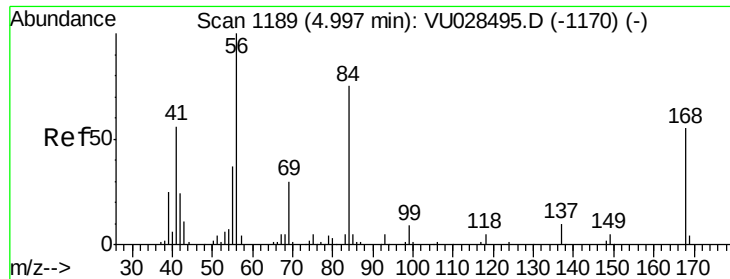


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

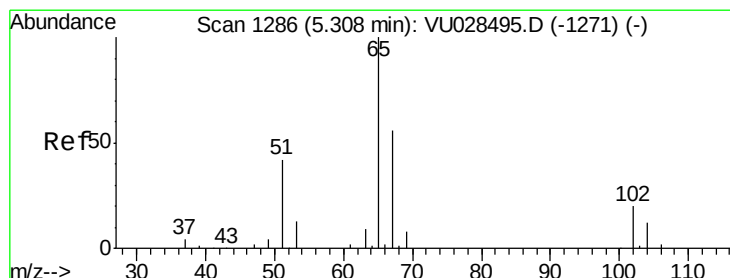
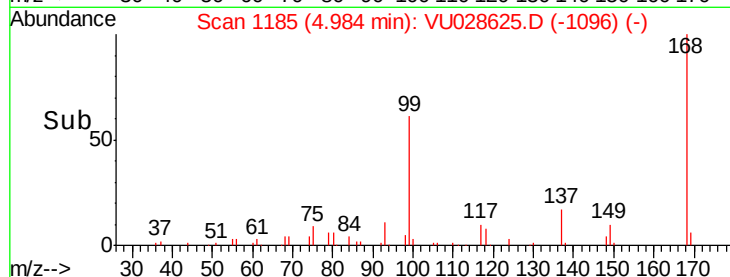
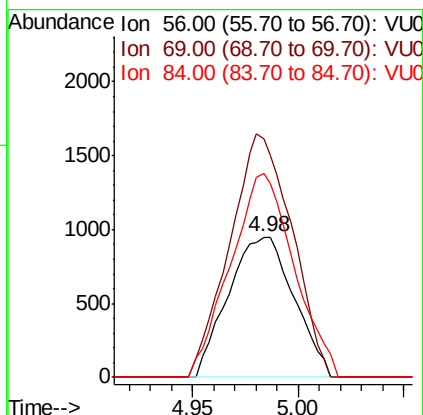
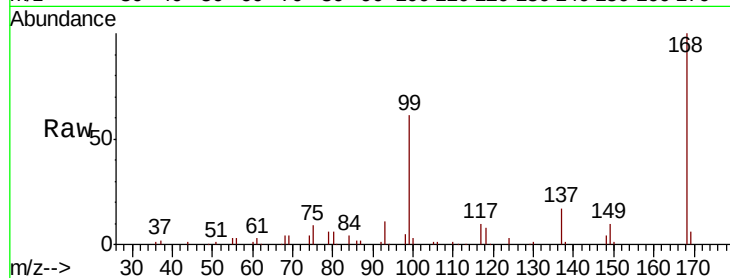




#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU028625.D
Acq: 11 Dec 2018 22:28

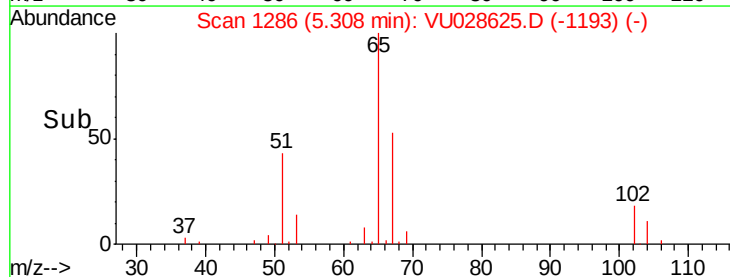
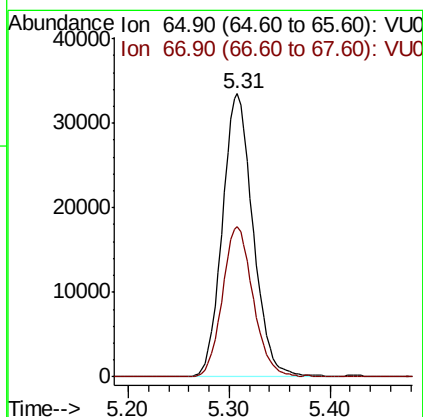
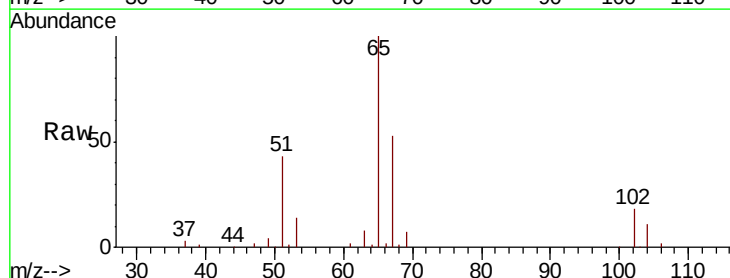
Instrument :
MSVOA_U
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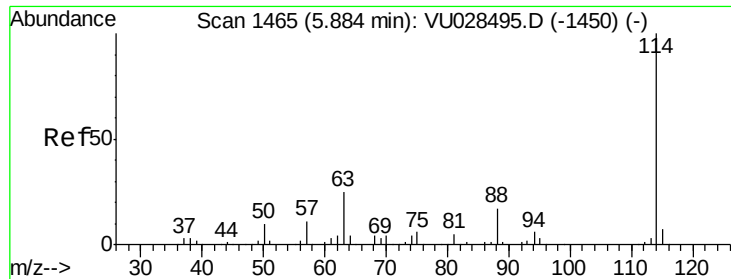
Tot Ion: 56 Resp: 2056
Ion Ratio Lower Upper
56 100
69 170.0 24.0 36.0#
84 145.6 59.7 89.5#



#33
1,2-Dichloroethane-d4
Concen: 56.409 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VU028625.D
Acq: 11 Dec 2018 22:28

Tgt Ion: 65 Resp: 71065
Ion Ratio Lower Upper
65 100
67 53.0 0.0 110.6

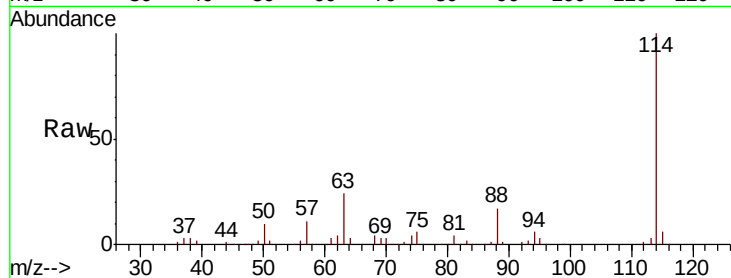




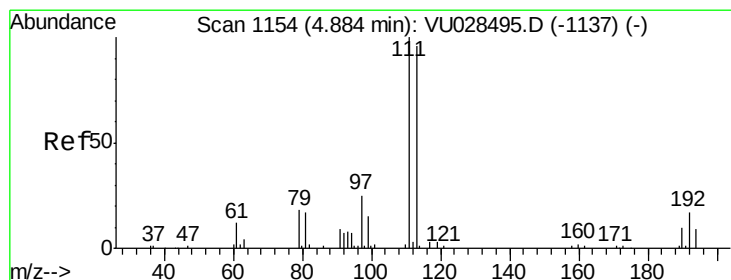
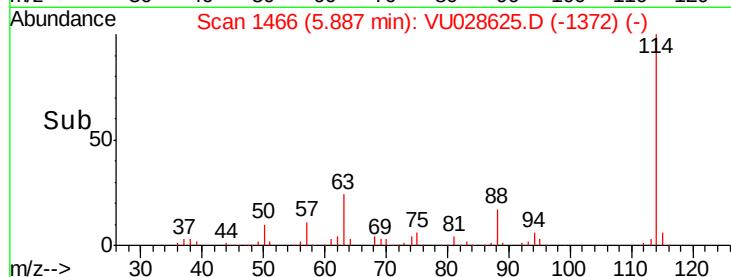
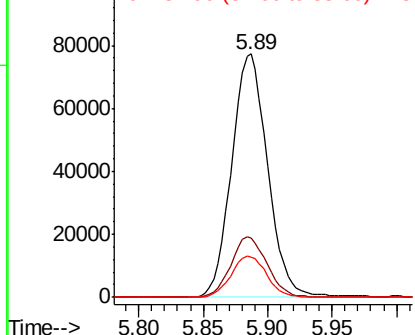
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028625.D
 Acq: 11 Dec 2018 22:28

Instrument :
 MSVOA_U
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 OR-02-121018-A

Tot Ion:114 Resp: 149813
 Ion Ratio Lower Upper
 114 100
 63 24.3 0.0 49.2
 88 16.7 0.0 33.4

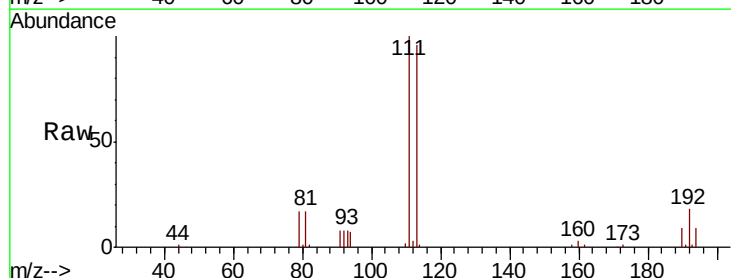


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

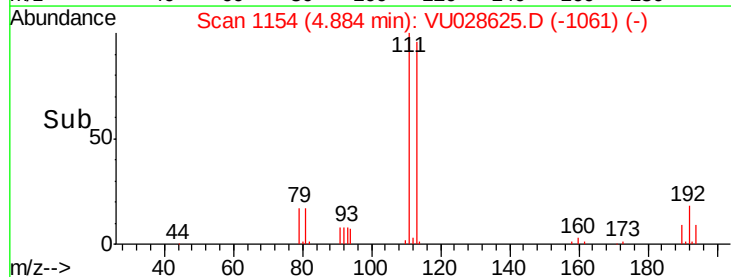
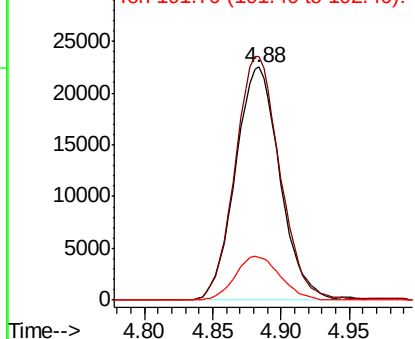


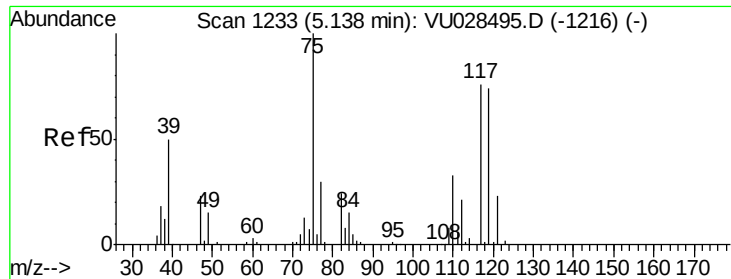
#35
 Dibromofluoromethane
 Concen: 54.015 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VU028625.D
 Acq: 11 Dec 2018 22:28

Tgt Ion:113 Resp: 50924
 Ion Ratio Lower Upper
 113 100
 111 105.4 83.4 125.0
 192 18.9 14.8 22.2



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

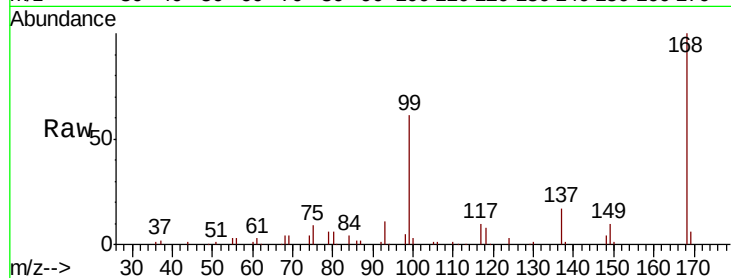




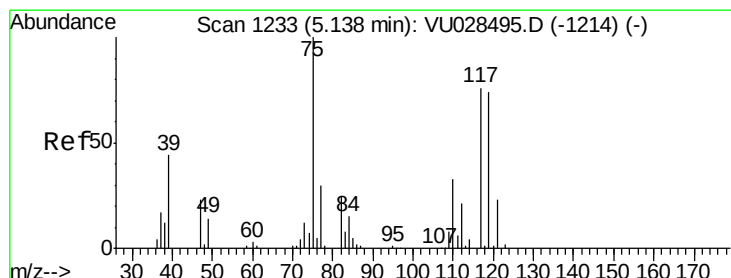
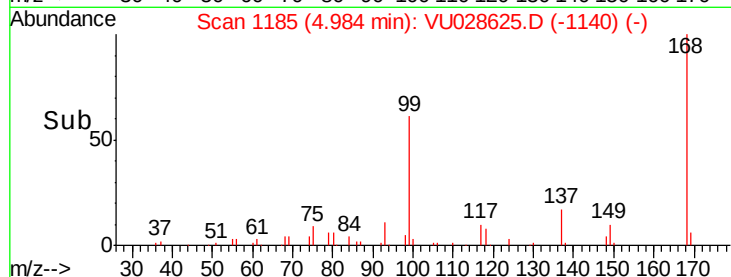
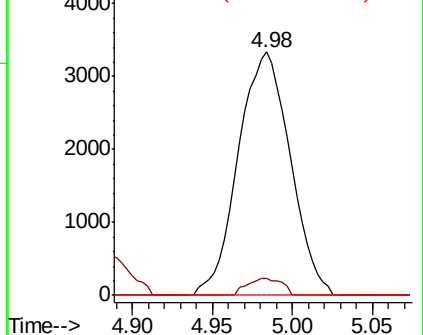
#36
 1,1-Dichloropropene
 Concen: 4.536 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028625.D
 Acq: 11 Dec 2018 22:28

Instrument :
 MSVOA_U
 ClientSampleId :
 OR-02-121018-A

Tot Ion	Ratio	Lower	Upper
75	100		
110	4.6	16.1	48.2#
77	0.0	24.5	36.7#

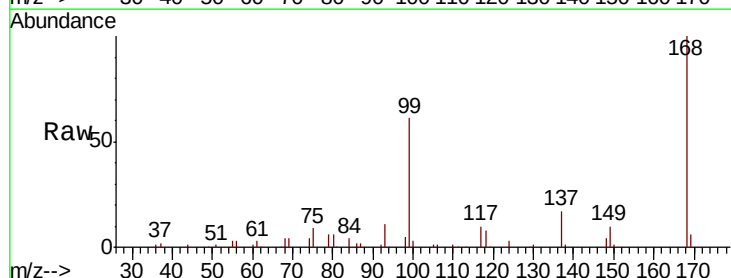


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

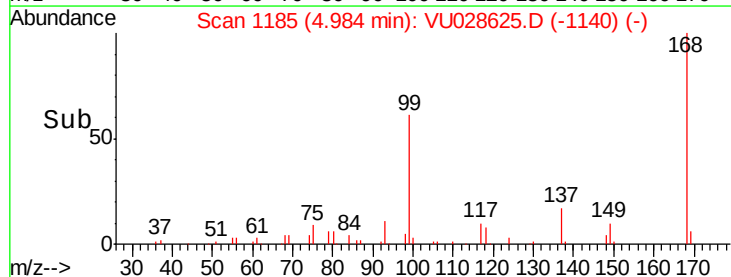
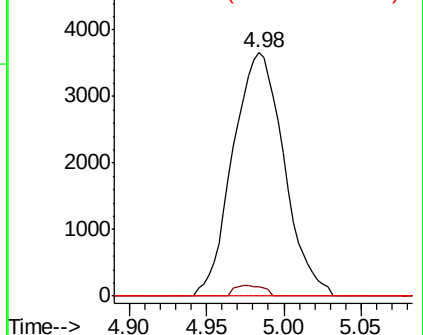


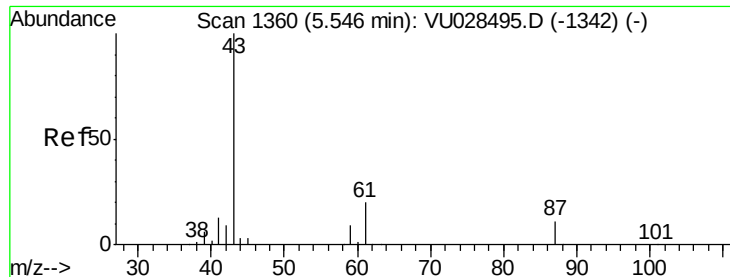
#38
 Carbon Tetrachloride
 Concen: 6.362 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028625.D
 Acq: 11 Dec 2018 22:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.0	77.6	116.4#
121	0.0	24.6	36.8#



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: 3.060 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. 0.00 min

Lab File: VU028625.D

Acq: 11 Dec 2018 22:28

Instrument :

MSVOA_U

ClientSampleId :

OR-02-121018-A

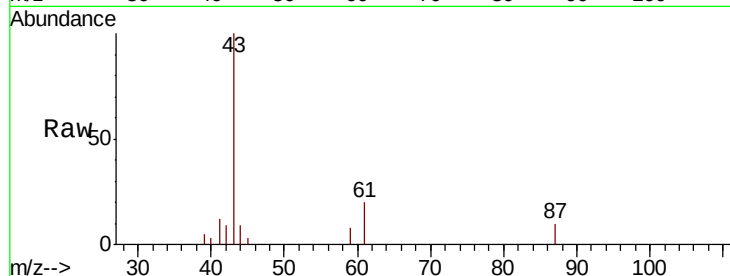
Tot Ion: 43 Resp: 10258

Ion Ratio Lower Upper

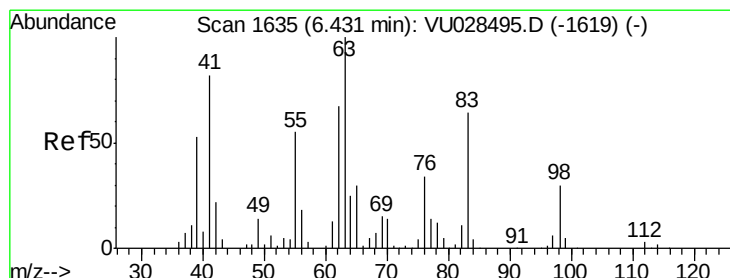
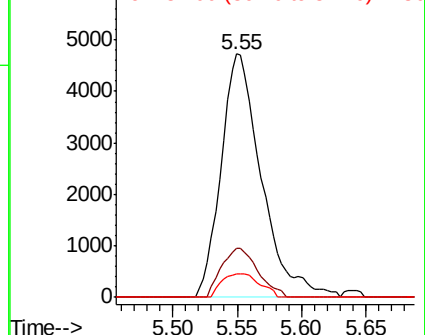
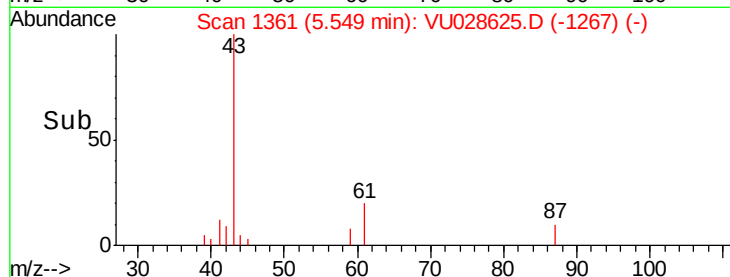
43 100

61 18.2 15.5 23.3

87 9.2 8.7 13.1



Abundance Ion 43.00 (42.70 to 43.70): VU028625.D (-1267) (-)



#45

1,2-Dichloropropane

Concen: 0.556 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU028625.D

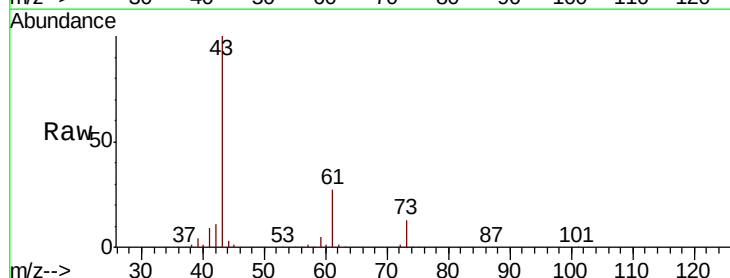
Acq: 11 Dec 2018 22:28

Tgt Ion: 63 Resp: 755

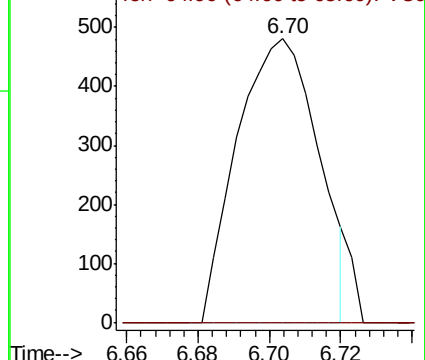
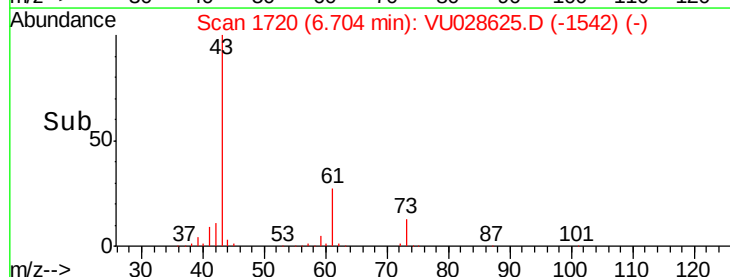
Ion Ratio Lower Upper

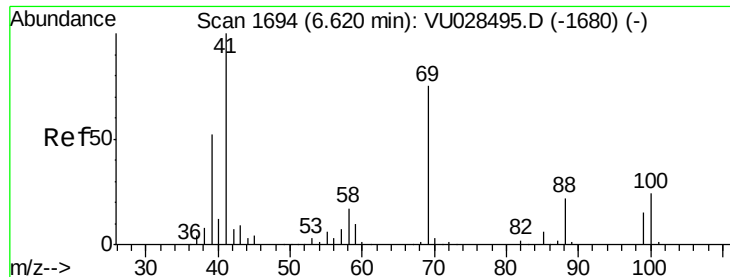
63 100

65 0.0 24.2 36.4#



Abundance Ion 62.90 (62.60 to 63.60): VU028625.D (-1542) (-)

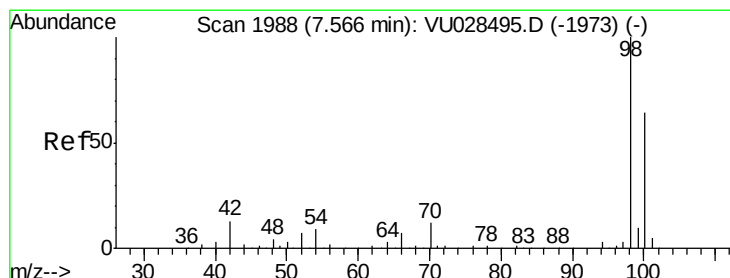
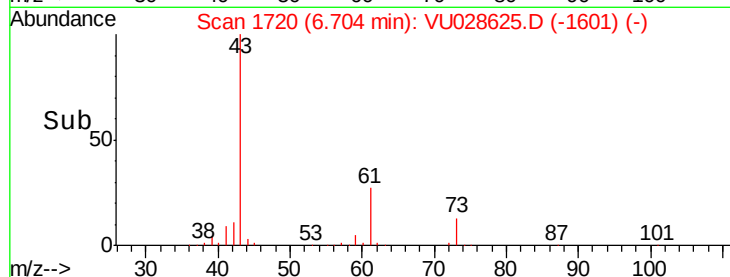
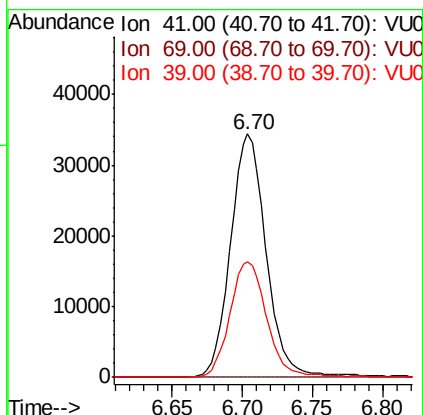
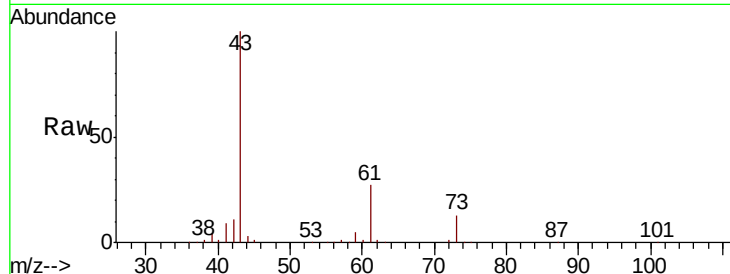




#48
Methvl methacrylate
Concen: 36.334 ug/l
RT: 6.70 min Scan# 1720
Delta R.T. 0.08 min
Lab File: VU028625.D
Acq: 11 Dec 2018 22:28

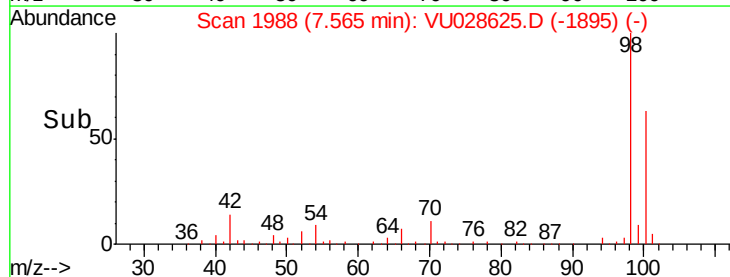
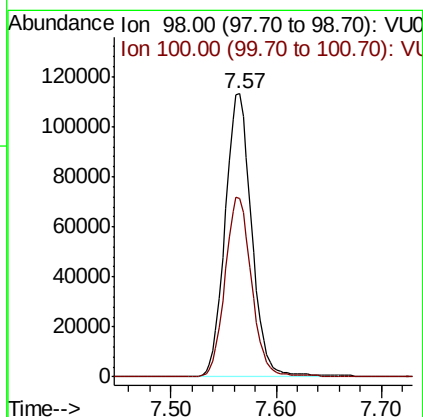
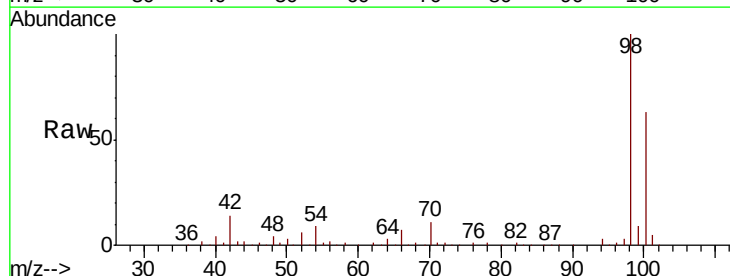
Instrument :
MSVOA_U
ClientSampleId :
OR-02-121018-A

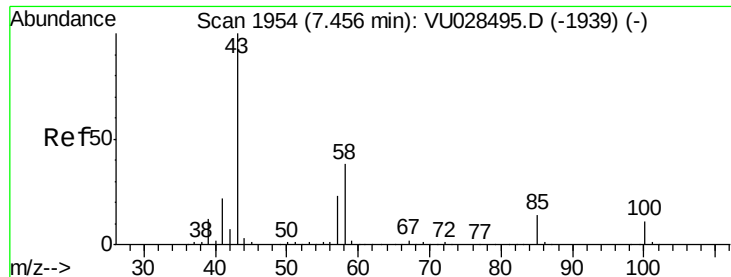
Tot Ion: 41 Resp: 60568
Ion Ratio Lower Upper
41 100
69 0.0 60.4 90.6#
39 49.3 41.1 61.7



#50
Toluene-d8
Concen: 52.927 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028625.D
Acq: 11 Dec 2018 22:28

Tgt Ion: 98 Resp: 197390
Ion Ratio Lower Upper
98 100
100 63.6 51.0 76.6





#51

4-Methyl-2-Pentanone

Concen: 2.290 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU028625.D

Acq: 11 Dec 2018 22:28

Instrument :

MSVOA_U

ClientSampleId :

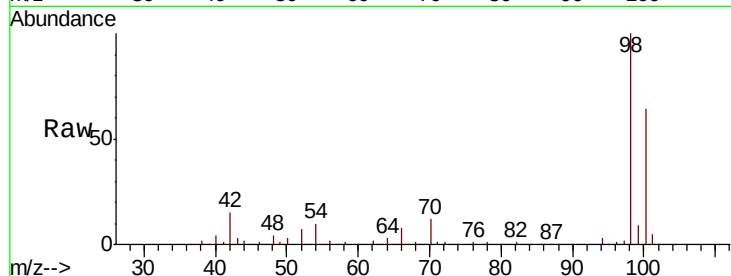
OR-02-121018-A

Tot Ion: 43 Resp: 4841

Ion Ratio Lower Upper

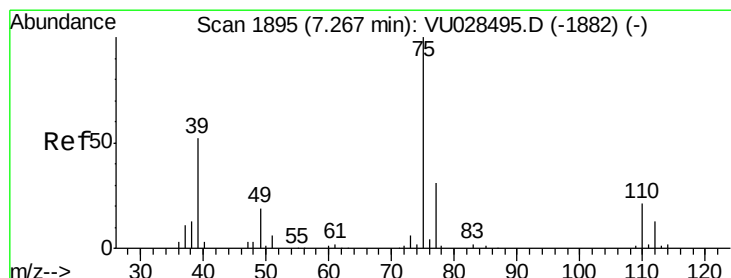
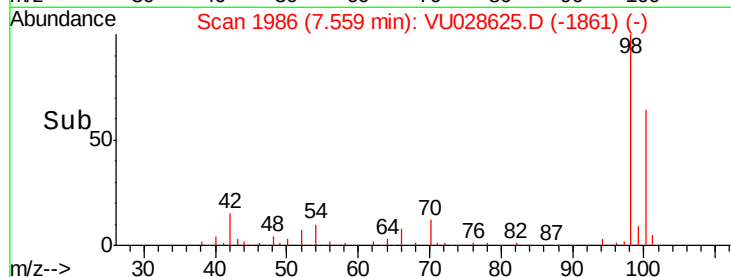
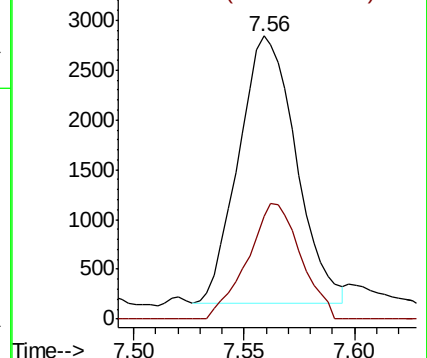
43 100

58 40.2 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#54

cis-1,3-Dichloropropene

Concen: 10.044 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU028625.D

Acq: 11 Dec 2018 22:28

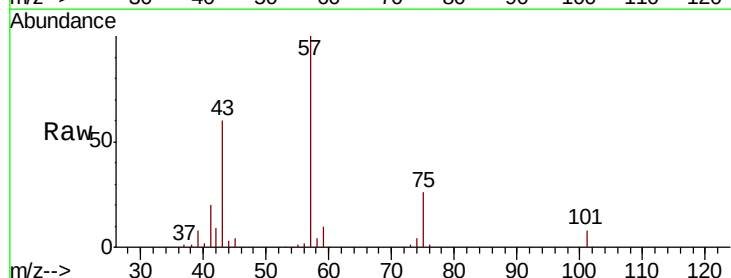
Tgt Ion: 75 Resp: 20345

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

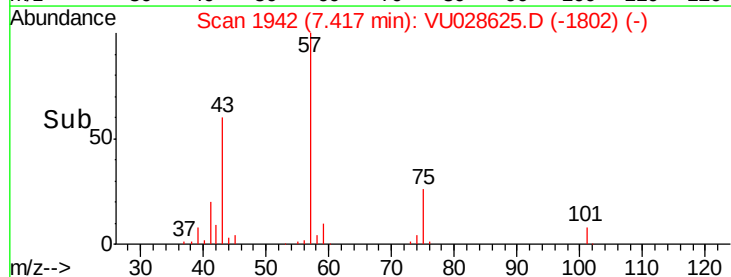
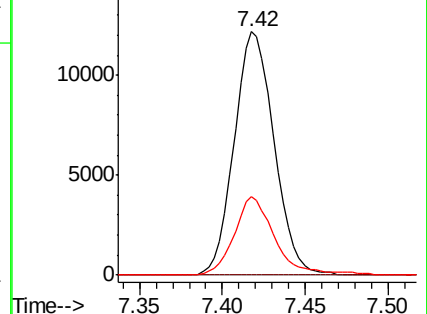
39 32.3 41.3 61.9#

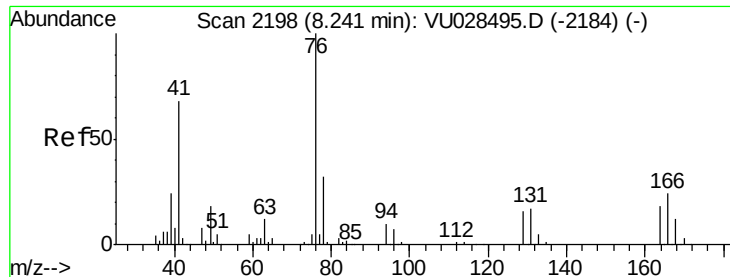


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0

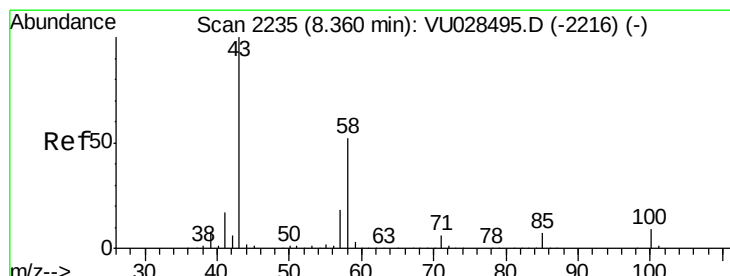
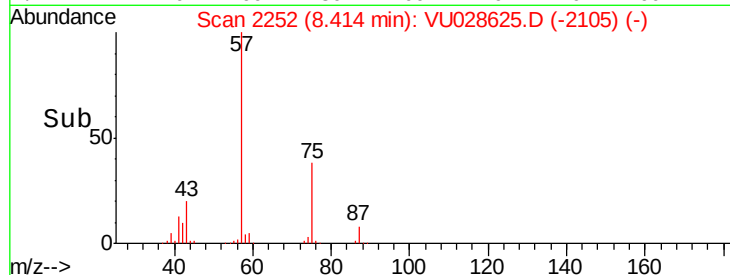
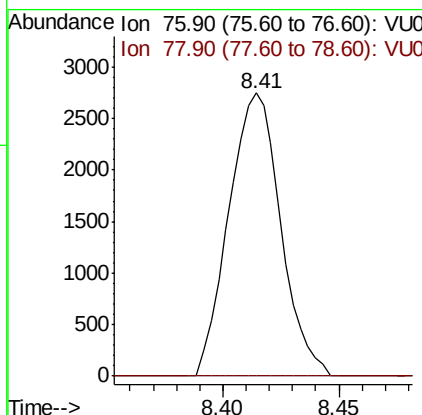
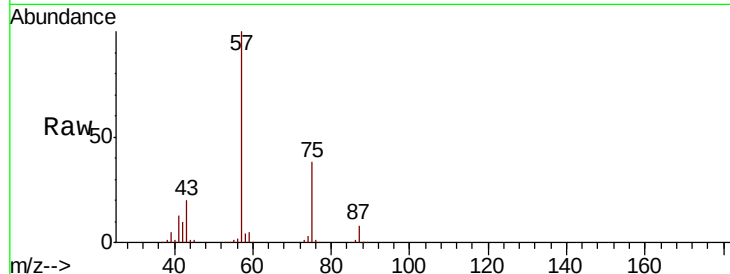




#57
 1,3-Dichloropropane
 Concen: 2.045 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.17 min
 Lab File: VU028625.D
 Acq: 11 Dec 2018 22:28

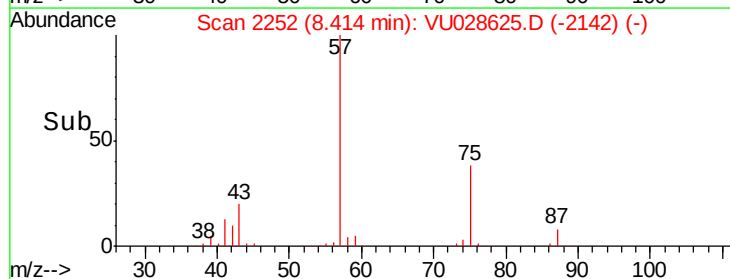
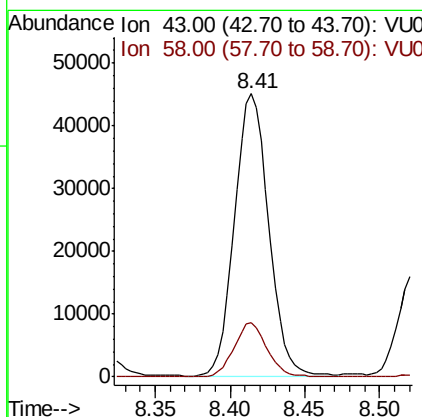
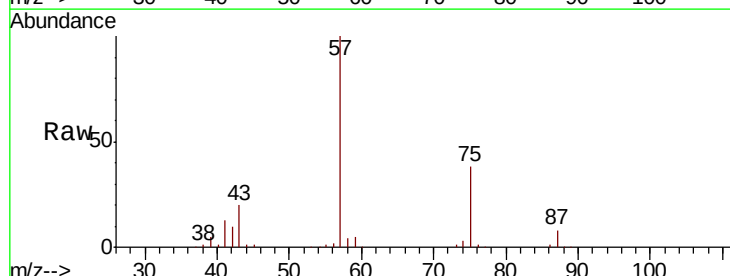
Instrument :
 MSVOA_U
 ClientSampleId :
 OR-02-121018-A

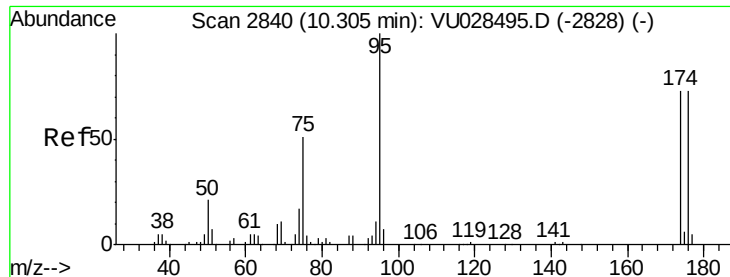
Tot Ion: 76 Resp: 4263
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#



#59
 2-Hexanone
 Concen: 42.743 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.05 min
 Lab File: VU028625.D
 Acq: 11 Dec 2018 22:28

Tgt Ion: 43 Resp: 71623
 Ion Ratio Lower Upper
 43 100
 58 18.5 25.9 77.6#

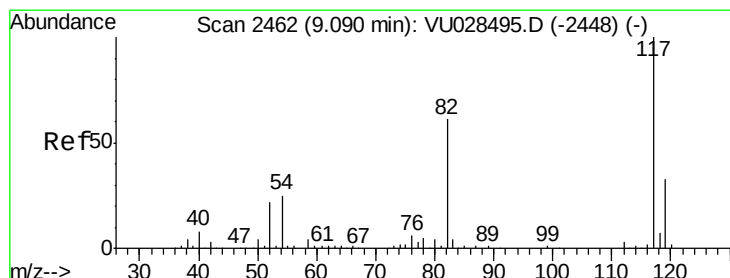
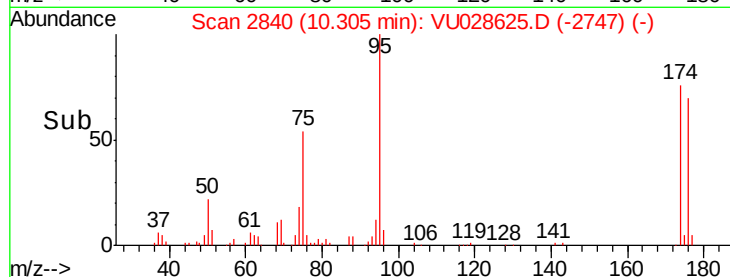
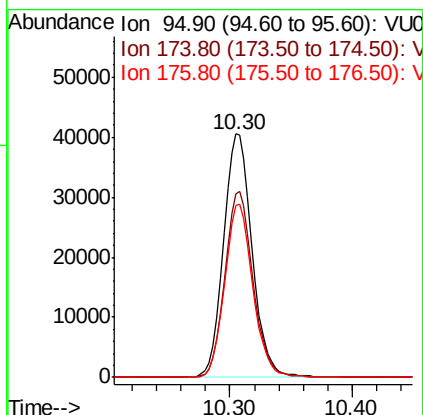
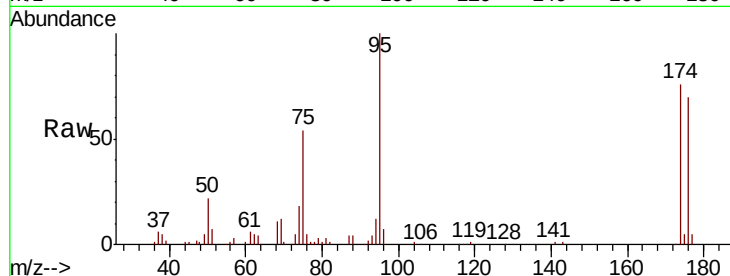




#62
4-Bromofluorobenzene
Concen: 47.757 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.00 min
Lab File: VU028625.D
Acq: 11 Dec 2018 22:28

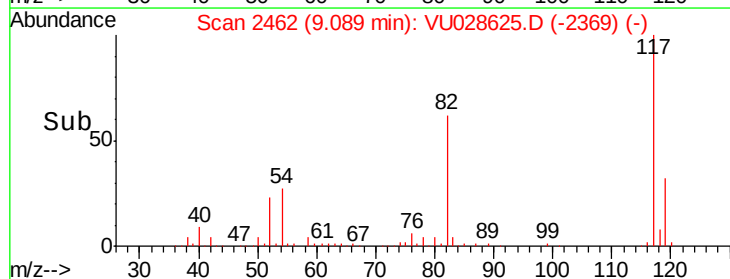
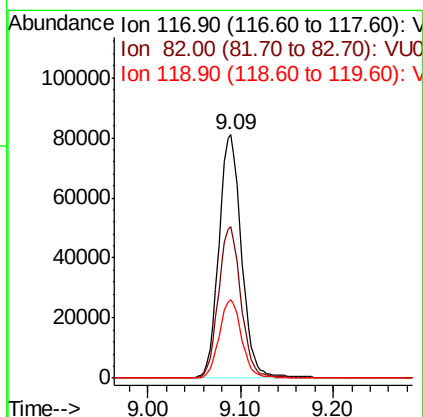
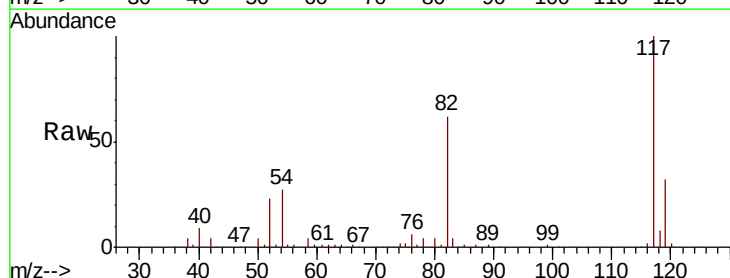
Instrument :
MSVOA_U
ClientSampleId :
OR-02-121018-A

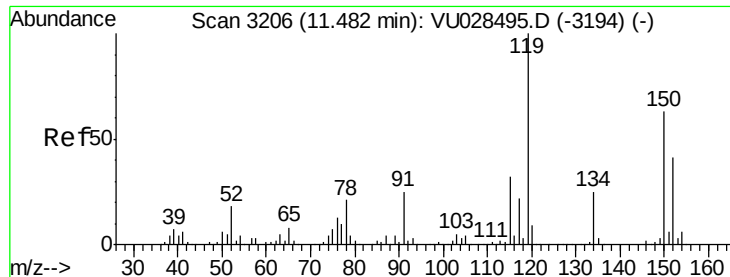
Tot Ion: 95 Resp: 66571
Ion Ratio Lower Upper
95 100
174 75.4 0.0 150.4
176 70.3 0.0 145.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028625.D
Acq: 11 Dec 2018 22:28

Tgt Ion: 117 Resp: 137532
Ion Ratio Lower Upper
117 100
82 62.0 48.9 73.3
119 32.3 26.2 39.4



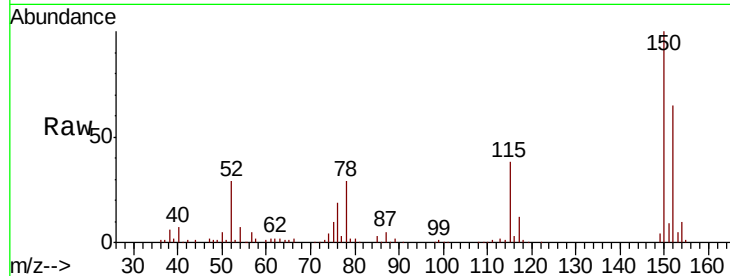


#72

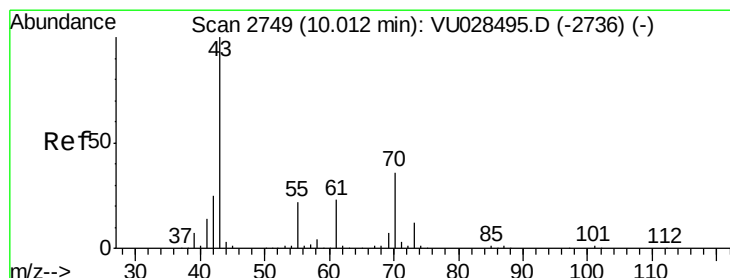
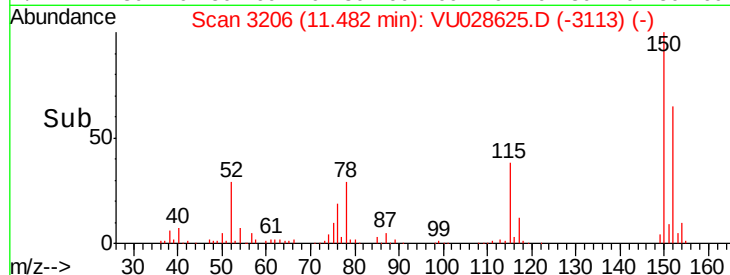
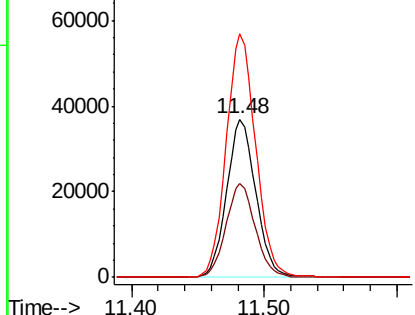
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028625.D
Acq: 11 Dec 2018 22:28

Instrument :
MSVOA_U
ClientSampleId :
OR-02-121018-A

Tot Ion:152 Resp: 56323
Ion Ratio Lower Upper
152 100
115 59.6 42.7 128.1
150 156.1 0.0 346.0



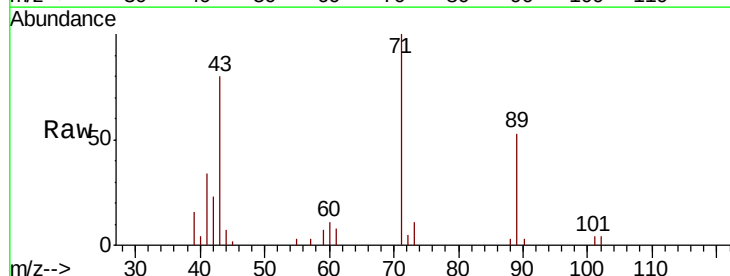
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



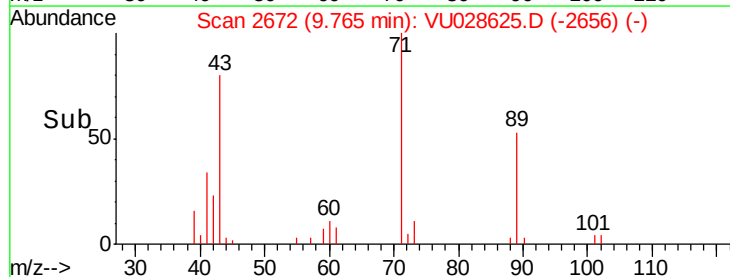
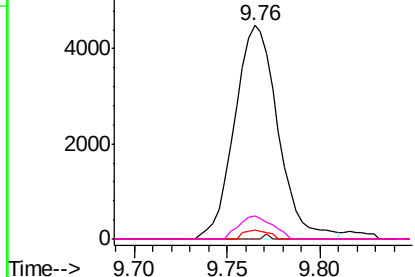
#74

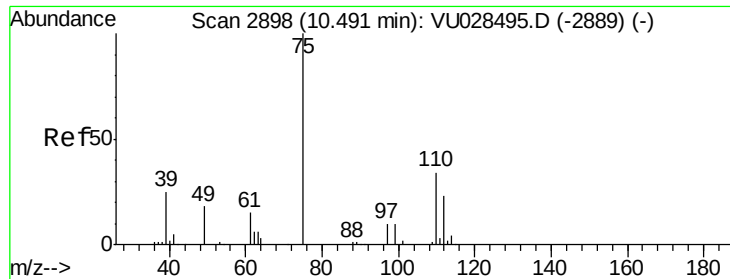
N-ethyl acetate
Concen: 2.927 ug/l
RT: 9.76 min Scan# 2672
Delta R.T. -0.25 min
Lab File: VU028625.D
Acq: 11 Dec 2018 22:28

Tgt Ion: 43 Resp: 7296
Ion Ratio Lower Upper
43 100
70 0.3 29.3 43.9#
55 2.4 18.0 27.0#
61 8.3 18.3 27.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 70.00 (69.70 to 70.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 61.00 (60.70 to 61.70): VU0





#76

1,2,3-Trichloropropane

Concen: 24.566 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028625.D

Acq: 11 Dec 2018 22:28

Instrument :

MSVOA_U

ClientSampleId :

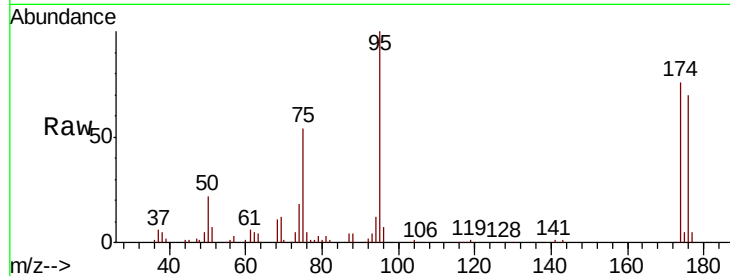
OR-02-121018-A

Tot Ion: 75 Resp: 35332

Ion Ratio Lower Upper

75 100

77 1.3 20.8 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.30

25000

20000

15000

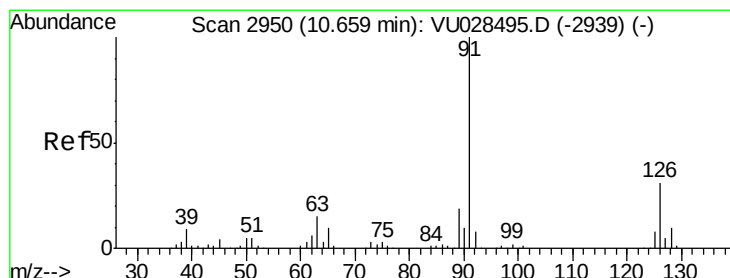
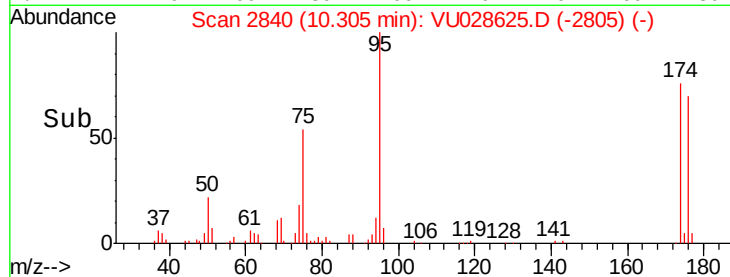
10000

5000

0

Time-->

10.25 10.30 10.35 10.40



#79

2-Chlorotoluene

Concen: 0.287 ug/l

RT: 10.59 min Scan# 2929

Delta R.T. -0.07 min

Lab File: VU028625.D

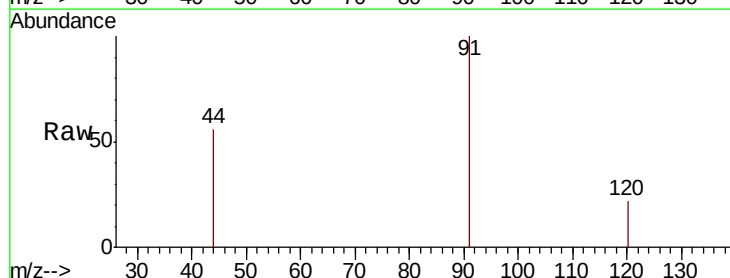
Acq: 11 Dec 2018 22:28

Tgt Ion: 91 Resp: 889

Ion Ratio Lower Upper

91 100

126 0.0 15.6 46.8#



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V

10.59

600

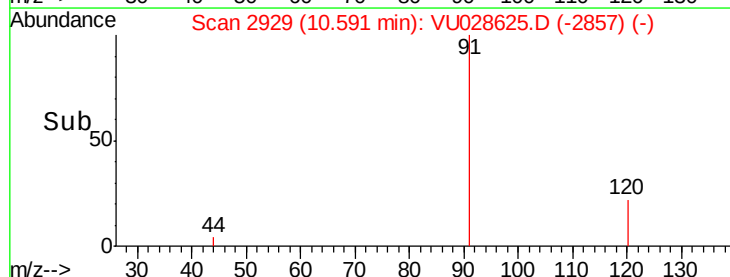
400

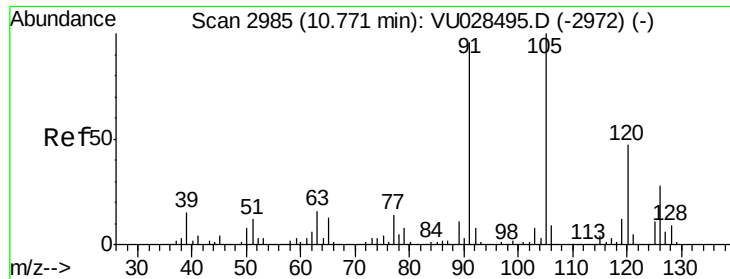
200

0

Time-->

10.55 10.60

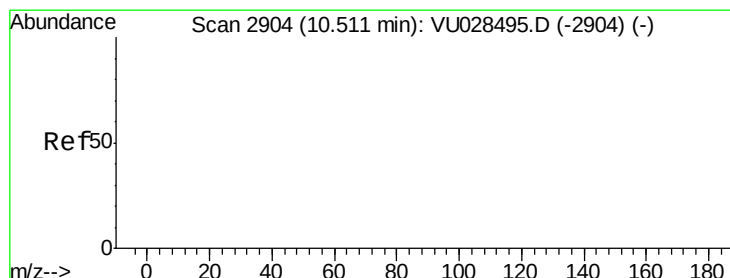
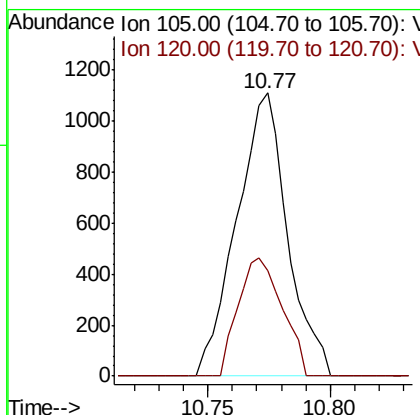
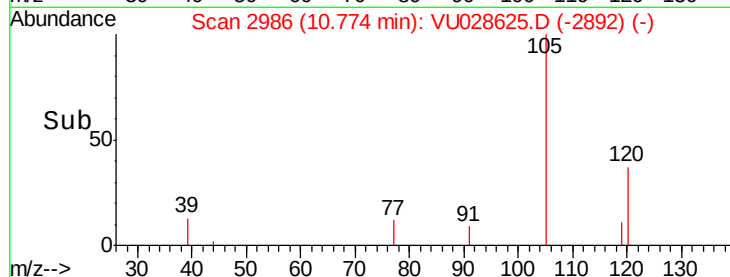
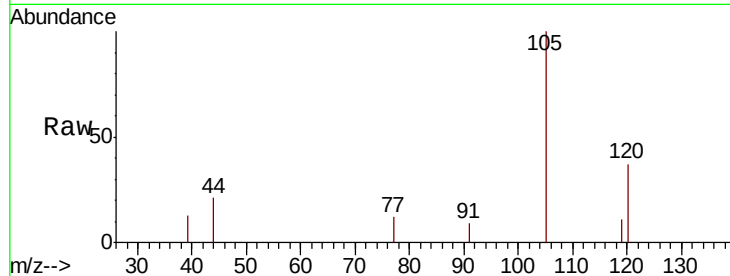




#80
 1,3,5-Trimethylbenzene
 Concen: 0.448 ug/l
 RT: 10.77 min Scan# 2986
 Delta R.T. 0.00 min
 Lab File: VU028625.D
 Acq: 11 Dec 2018 22:28

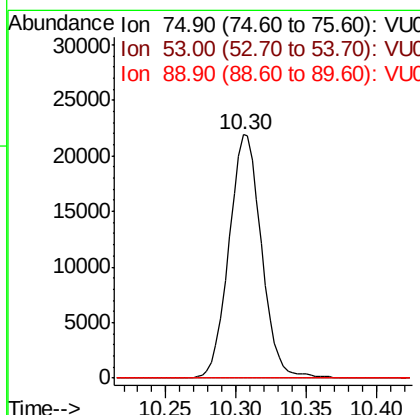
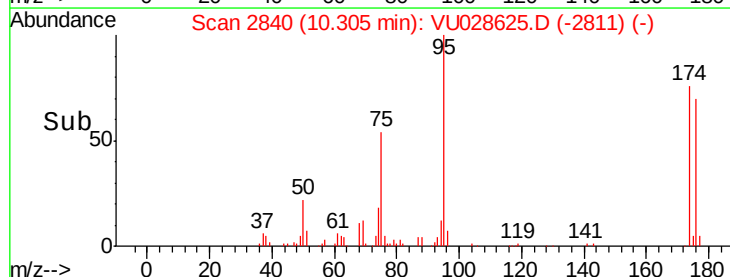
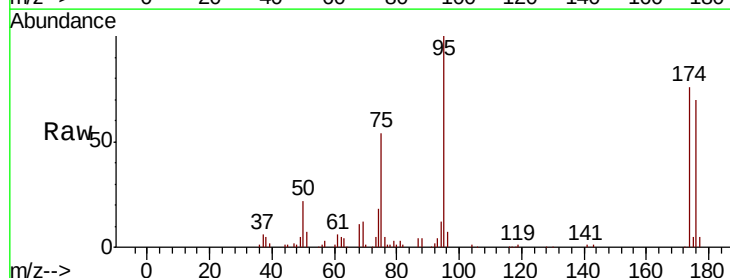
Instrument :
 MSVOA_U
 ClientSampleId :
 OR-02-121018-A

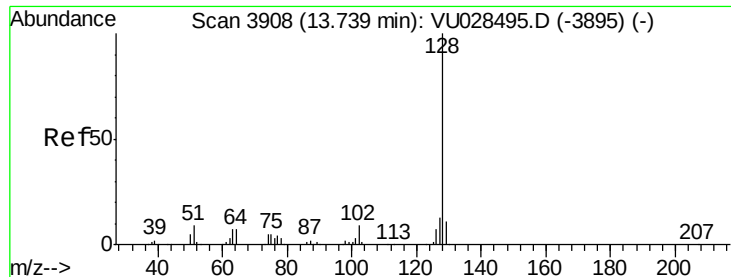
Tot Ion:105 Resp: 1603
 Ion Ratio Lower Upper
 105 100
 120 36.2 23.7 71.1



#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.292 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.21 min
 Lab File: VU028625.D
 Acq: 11 Dec 2018 22:28

Tgt Ion: 75 Resp: 35332
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

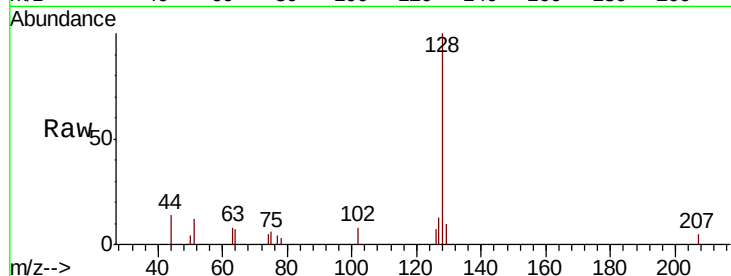




#95
 Naphthalene
 Concen: 1.305 ug/l
 RT: 13.75 min Scan# 3910
 Delta R.T. 0.01 min
 Lab File: VU028625.D
 Acq: 11 Dec 2018 22:28

Instrument :
 MSVOA_U
 ClientSampleId :
 OR-02-121018-A

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.6	10.4	15.6
129	8.8	8.6	13.0



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

