

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072718\
 Data File : VU025696.D
 Acq On : 28 Jul 2018 02:38
 Operator : MD/SY
 Sample : J4073-09
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RE117D1-071618

Quant Time: Jul 28 05:32:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 27 13:11:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	177313	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	271892	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	269113	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	159956	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	134167	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
35) Dibromofluoromethane	4.89	113	113900	48.17	ug/l	0.00
Spiked Amount			Recovery	=	96.34%	
50) Toluene-d8	7.57	98	395184	47.76	ug/l	0.00
Spiked Amount			Recovery	=	95.52%	
62) 4-Bromofluorobenzene	10.31	95	152789	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	

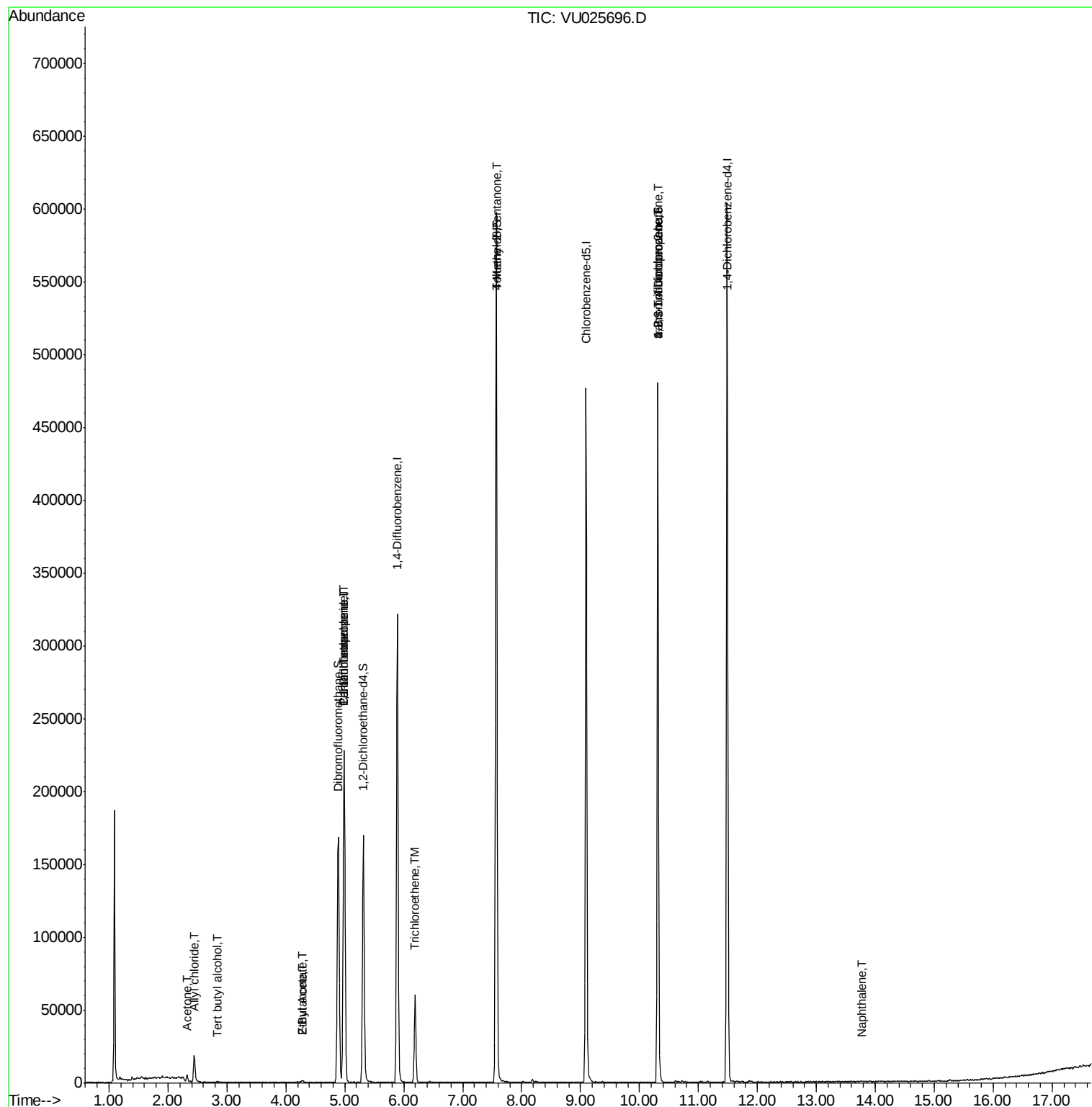
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.83	59	712	1.18	ug/l #	73
13) Acrolein	2.19	56	22	Below Cal	#	1
14) Allyl chloride	2.44	41	1988	0.58	ug/l #	70
16) Acetone	2.32	43	4646	3.45	ug/l	95
25) 2-Butanone	4.28	43	3135	1.71	ug/l #	76
31) Cyclohexane	4.99	56	3460	Below Cal	#	28
36) 1,1-Dichloropropene	4.99	75	12119	3.81	ug/l #	49
37) Ethyl Acetate	4.28	43	3135	0.95	ug/l #	69
38) Carbon Tetrachloride	4.99	117	17299	4.81	ug/l #	18
44) Trichloroethene	6.19	130	21098	8.16	ug/l	94
51) 4-Methyl-2-Pentanone	7.57	43	1677	0.49	ug/l #	1
76) 1,2,3-Trichloropropane	10.31	75	78882	22.38	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.31	75	78882	56.12	ug/l #	100
95) Naphthalene	13.76	128	121	1.26	ug/l #	69

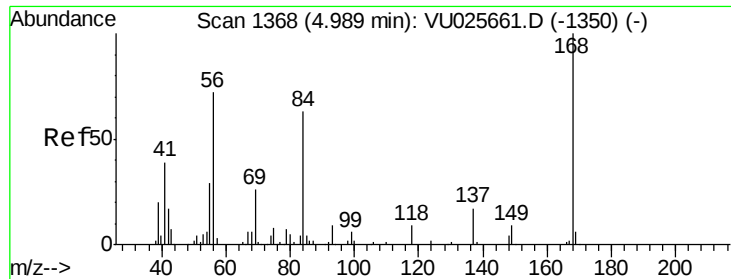
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025696.D

Acq: 28 Jul 2018 02:38

Instrument :

MSVOA_U

ClientSampleId :

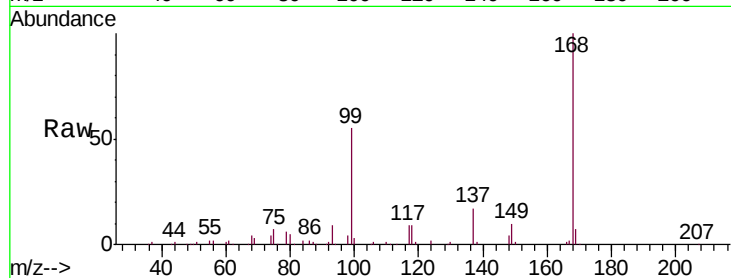
RE117D1-071618

Tot Ion:168 Resp: 177313

Ion Ratio Lower Upper

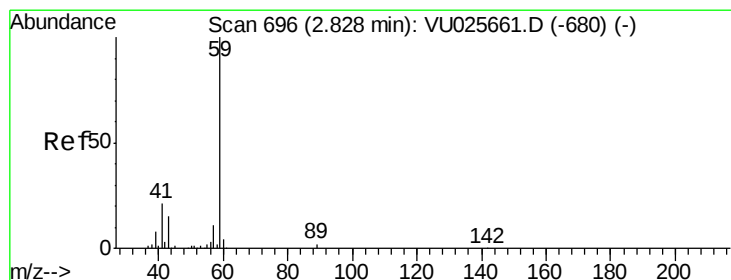
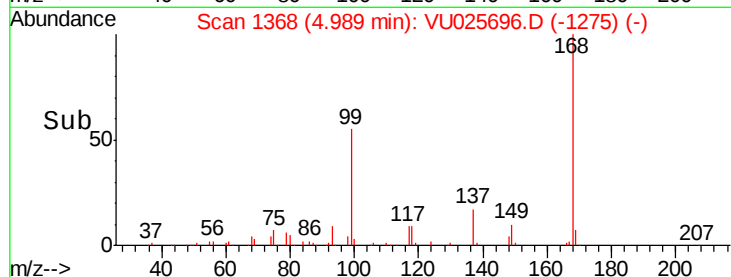
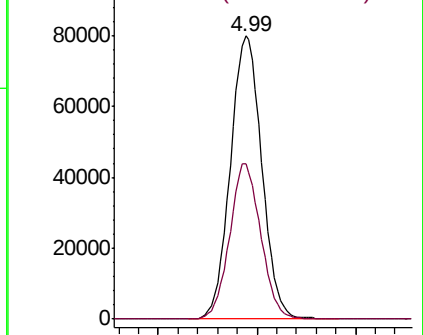
168 100

99 54.7 42.8 64.2



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

Ion 98.90 (98.60 to 99.60): VU025661.D



#11

Tert butyl alcohol

Concen: 1.18 ug/l

RT: 2.83 min Scan# 697

Delta R.T. 0.00 min

Lab File: VU025696.D

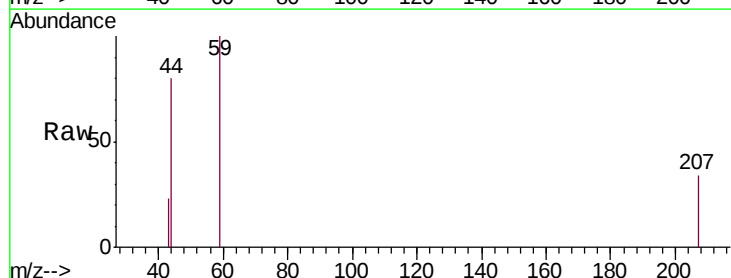
Acq: 28 Jul 2018 02:38

Tgt Ion: 59 Resp: 712

Ion Ratio Lower Upper

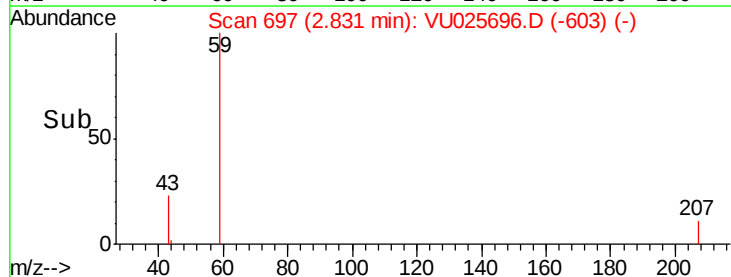
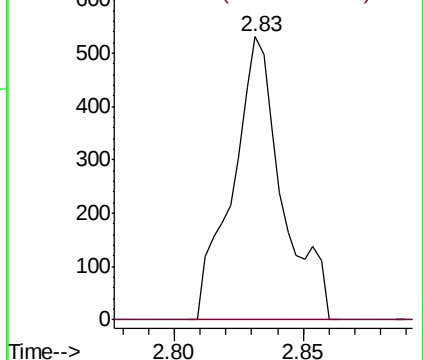
59 100

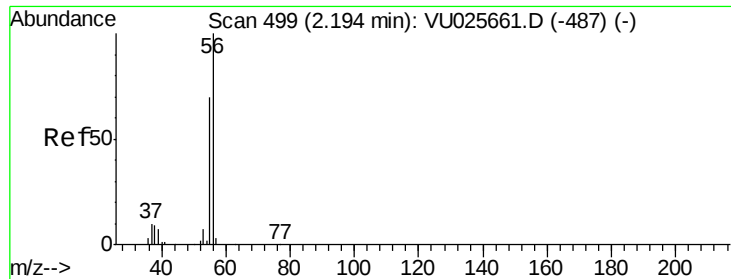
57 0.0 8.2 12.2#



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

Ion 57.00 (56.70 to 57.70): VU025661.D





#13

Acrolein

Concen: Below Cal

RT: 2.19 min Scan# 496

Delta R.T. -0.01 min

Lab File: VU025696.D

Acq: 28 Jul 2018 02:38

Instrument :

MSVOA_U

ClientSampleId :

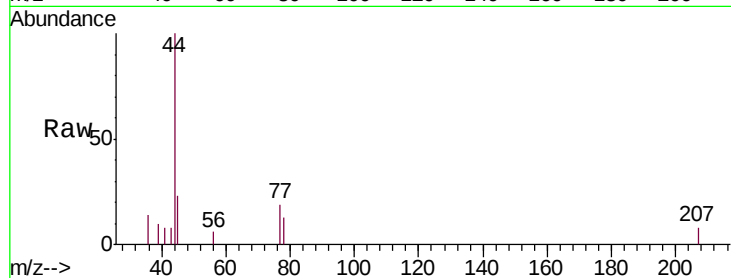
RE117D1-071618

Tot Ion: 56 Resp: 22

Ion Ratio Lower Upper

56 100

55 195.5 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

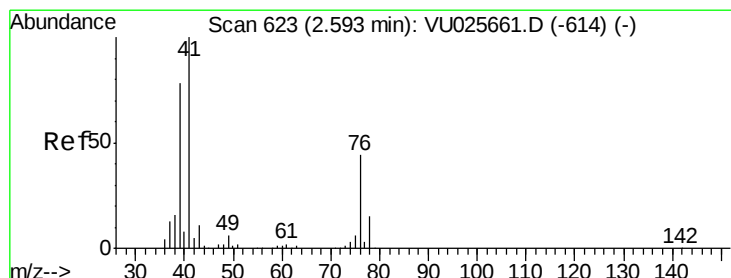
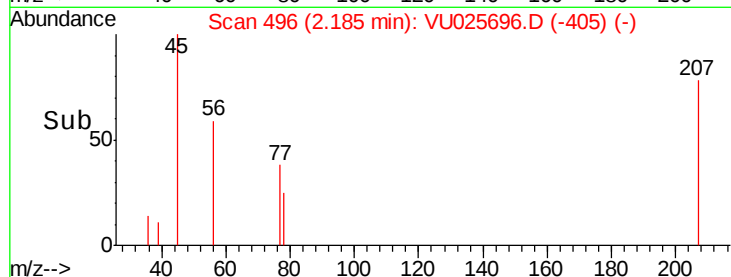
2.19

100

50

0

Time-->



#14

Allyl chloride

Concen: 0.58 ug/l

RT: 2.44 min Scan# 576

Delta R.T. -0.15 min

Lab File: VU025696.D

Acq: 28 Jul 2018 02:38

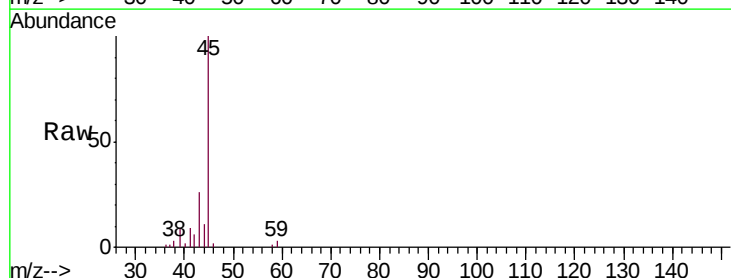
Tgt Ion: 41 Resp: 1988

Ion Ratio Lower Upper

41 100

39 86.8 60.6 91.0

76 0.0 30.5 45.7#



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0

1200

1000

800

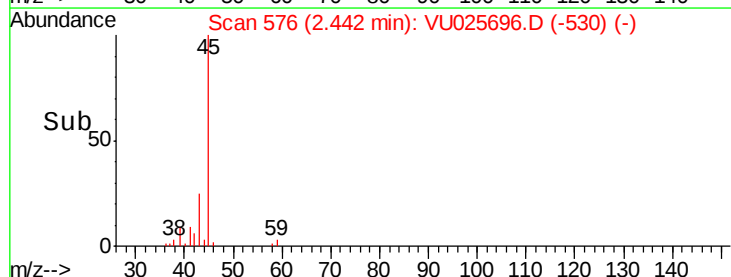
600

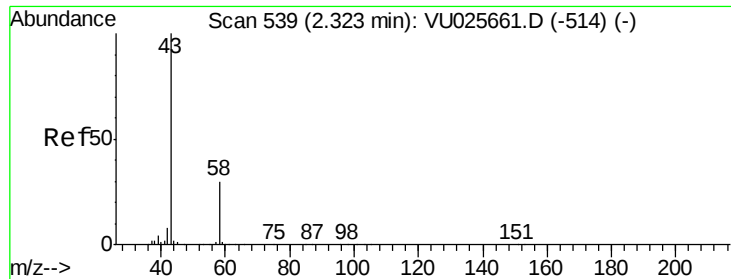
400

200

0

Time-->





#16

Acetone

Concen: 3.45 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025696.D

Acq: 28 Jul 2018 02:38

Instrument :

MSVOA_U

ClientSampleId :

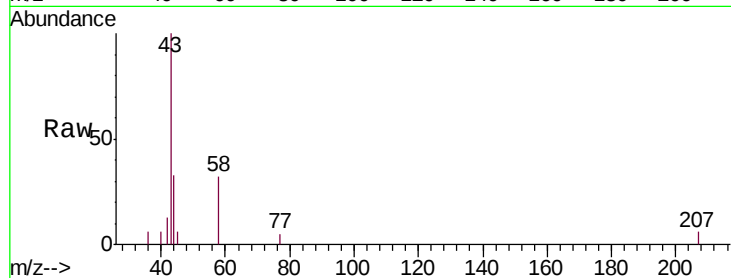
RE117D1-071618

Tot Ion: 43 Resp: 4646

Ion Ratio Lower Upper

43 100

58 31.7 23.1 34.7



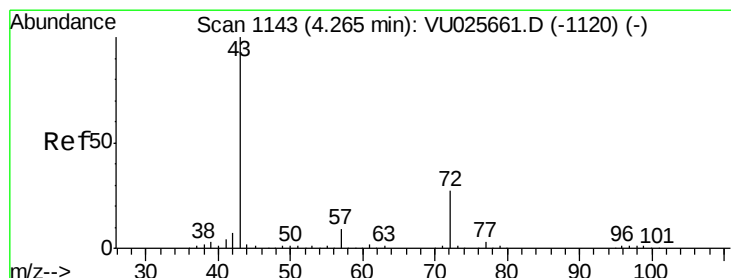
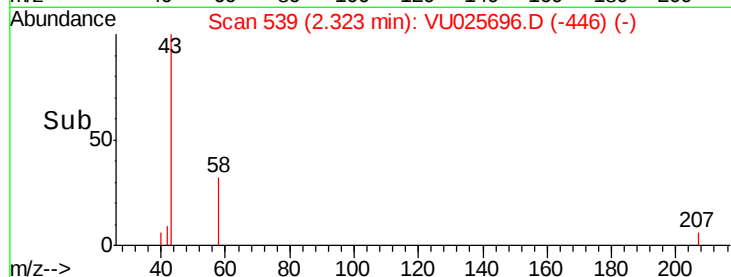
Abundance Ion 43.00 (42.70 to 43.70): VU025661.D (-514) (-)

Ion 58.00 (57.70 to 58.70): VU025661.D (-514) (-)

2.32

2.25 2.30 2.35

Time-->



#25

2-Butanone

Concen: 1.71 ug/l

RT: 4.28 min Scan# 1147

Delta R.T. 0.01 min

Lab File: VU025696.D

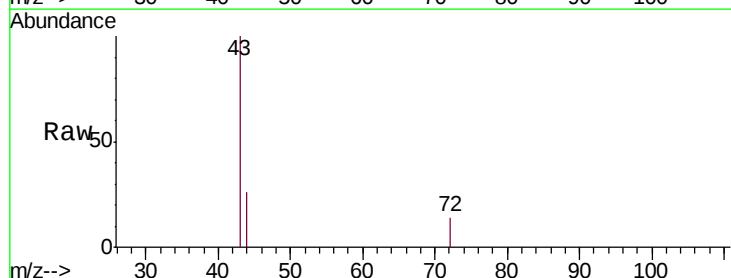
Acq: 28 Jul 2018 02:38

Tgt Ion: 43 Resp: 3135

Ion Ratio Lower Upper

43 100

72 14.0 21.0 31.4#



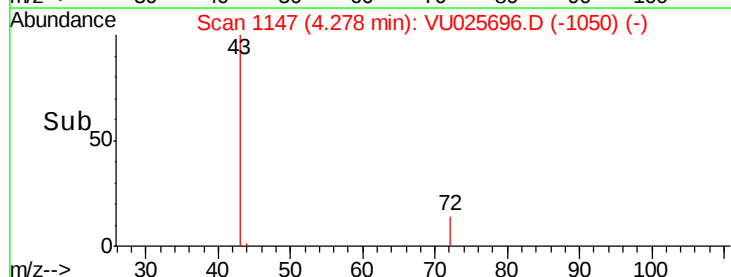
Abundance Ion 43.00 (42.70 to 43.70): VU025661.D (-1120) (-)

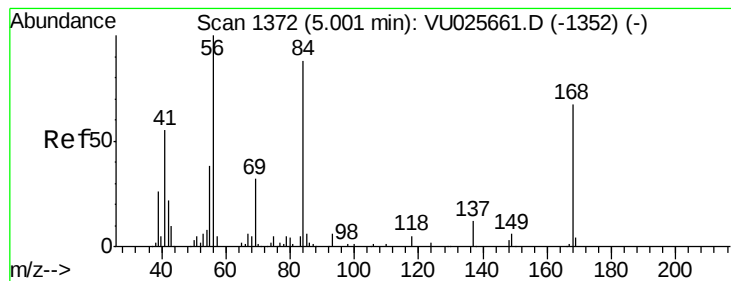
Ion 72.00 (71.70 to 72.70): VU025661.D (-1120) (-)

4.28

4.20 4.25 4.30 4.35

Time-->





#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU025696.D

Acq: 28 Jul 2018 02:38

Instrument :

MSVOA_U

ClientSampleId :

RE117D1-071618

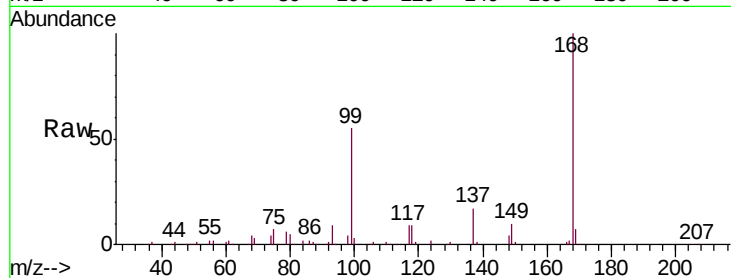
Tot Ion: 56 Resp: 3460

Ion Ratio Lower Upper

56 100

69 154.9 26.8 40.2#

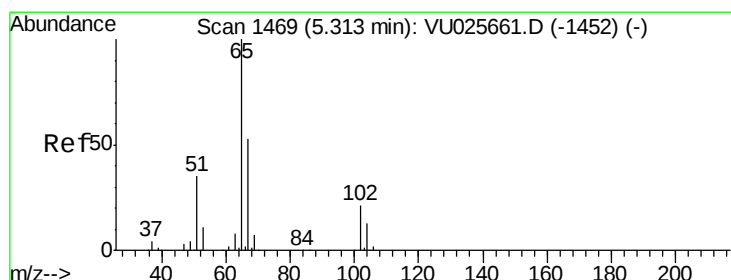
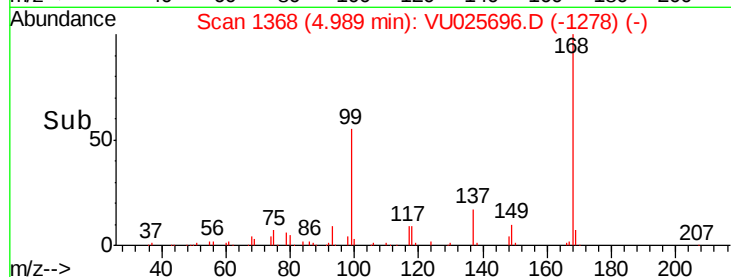
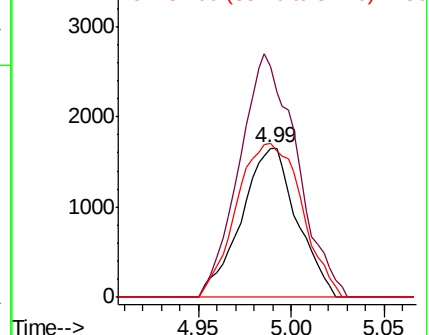
84 103.5 69.7 104.5



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: 48.56 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025696.D

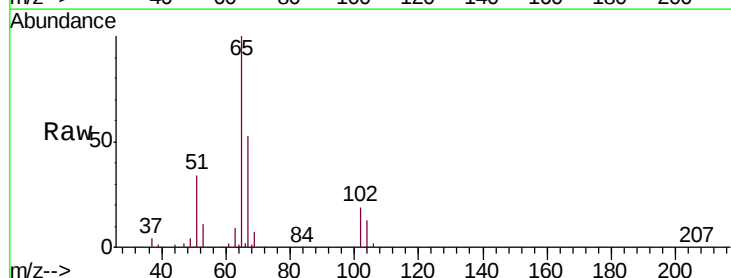
Acq: 28 Jul 2018 02:38

Tgt Ion: 65 Resp: 134167

Ion Ratio Lower Upper

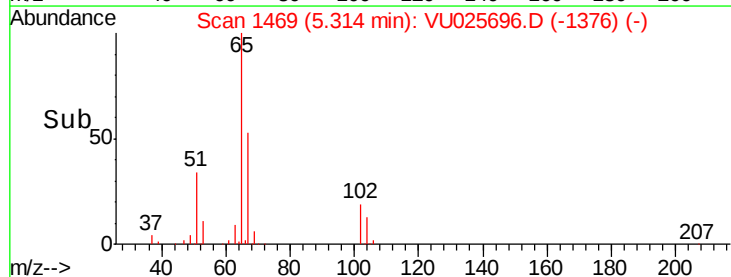
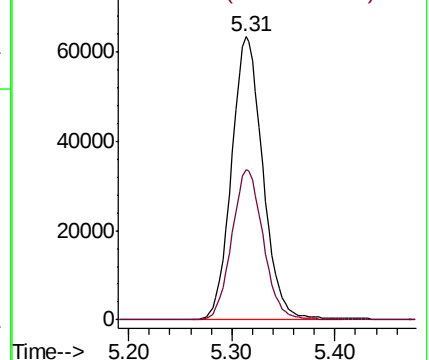
65 100

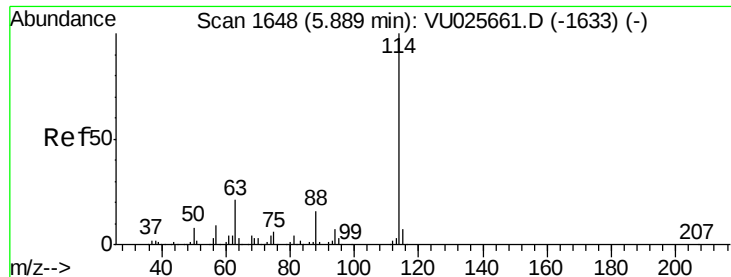
67 53.2 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

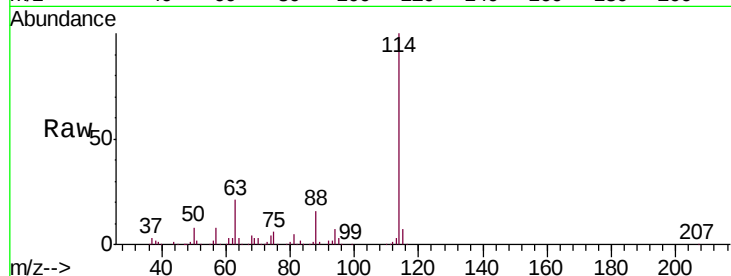




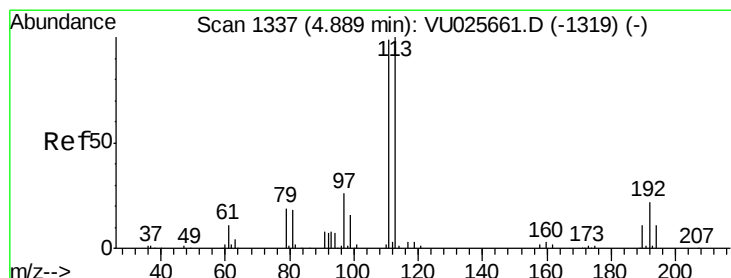
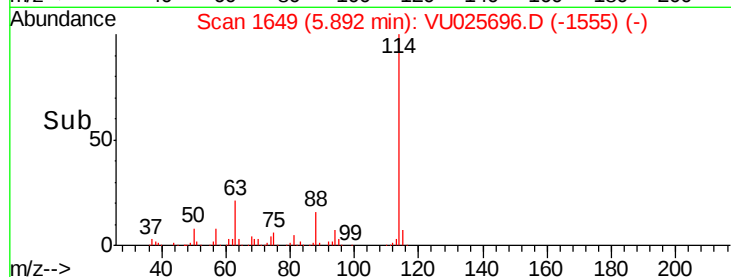
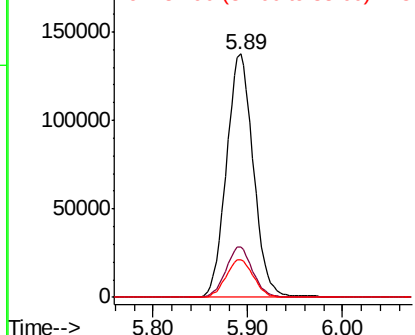
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 5.89 min Scan# 1649
Delta R.T. 0.00 min
Lab File: VU025696.D
Acq: 28 Jul 2018 02:38

Instrument :
MSVOA_U
ClientSampleId :
RE117D1-071618

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	41.6
88	15.6	0.0	32.4

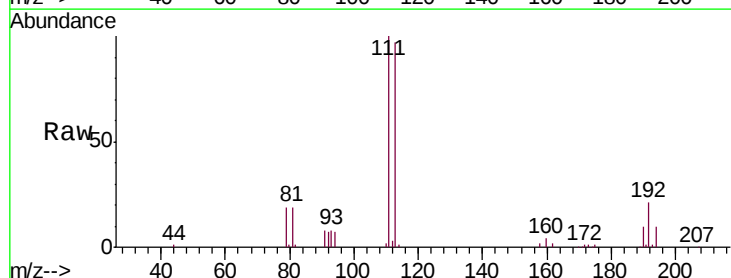


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VU0
Ion 87.90 (87.60 to 88.60): VU0

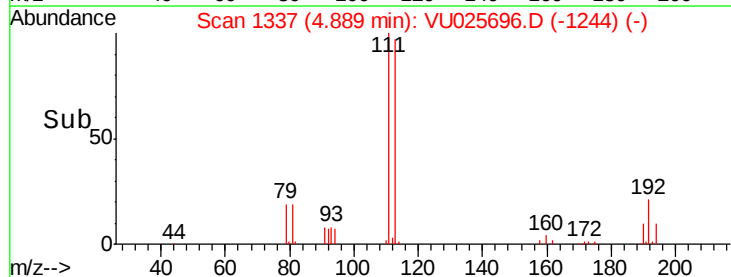
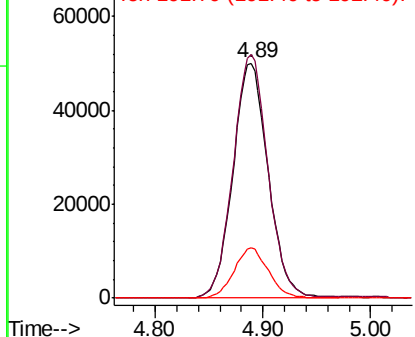


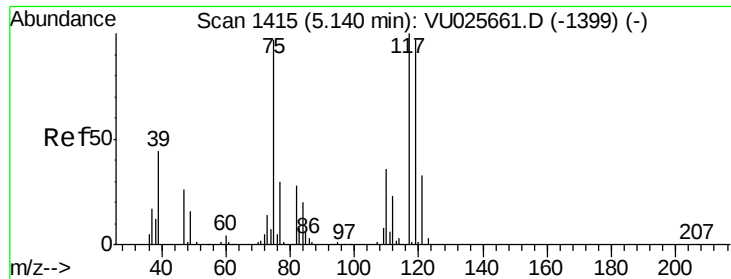
#35
Dibromofluoromethane
Concen: 48.17 ug/l
RT: 4.89 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VU025696.D
Acq: 28 Jul 2018 02:38

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.7	122.5
192	20.9	17.1	25.7



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: 3.81 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025696.D

Acq: 28 Jul 2018 02:38

Instrument :

MSVOA_U

ClientSampleId :

RE117D1-071618

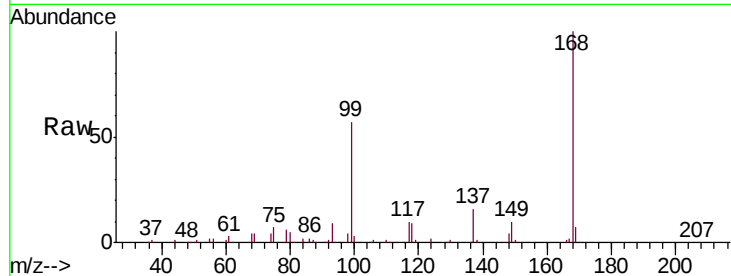
Tot Ion: 75 Resp: 12119

Ion Ratio Lower Upper

75 100

110 8.3 17.6 52.9#

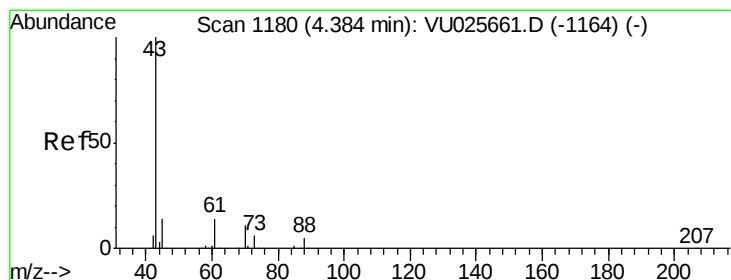
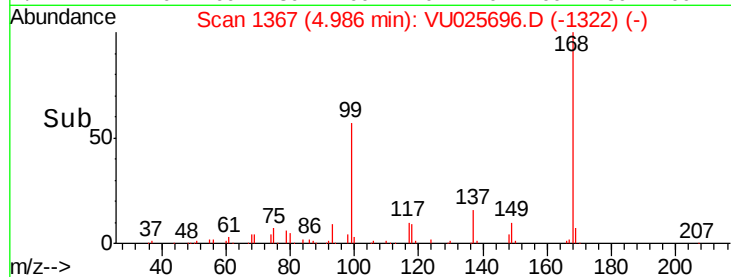
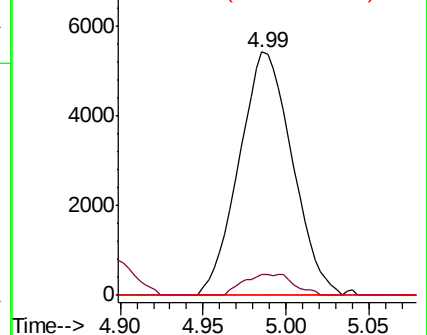
77 0.0 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): VU0

Ion 76.90 (76.60 to 77.60): VU0



#37

Ethyl Acetate

Concen: 0.95 ug/l

RT: 4.28 min Scan# 1147

Delta R.T. -0.11 min

Lab File: VU025696.D

Acq: 28 Jul 2018 02:38

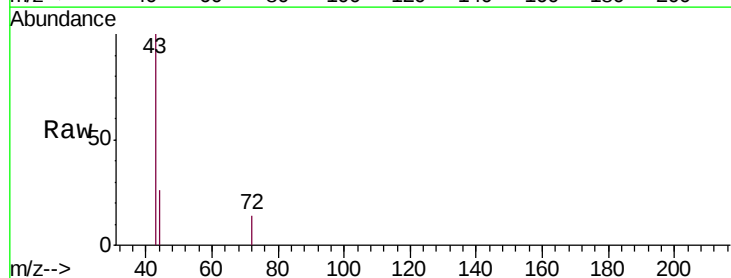
Tgt Ion: 43 Resp: 3135

Ion Ratio Lower Upper

43 100

61 0.0 10.7 16.1#

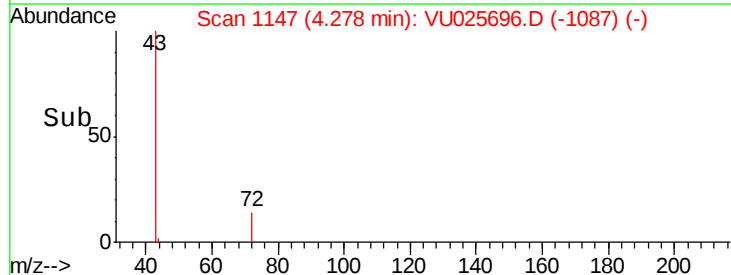
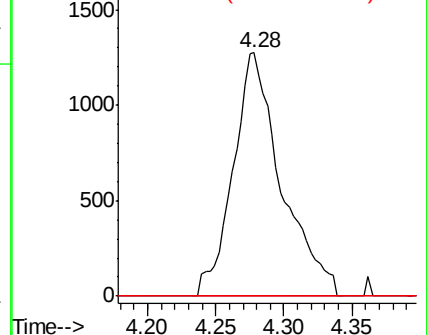
70 0.0 8.4 12.6#

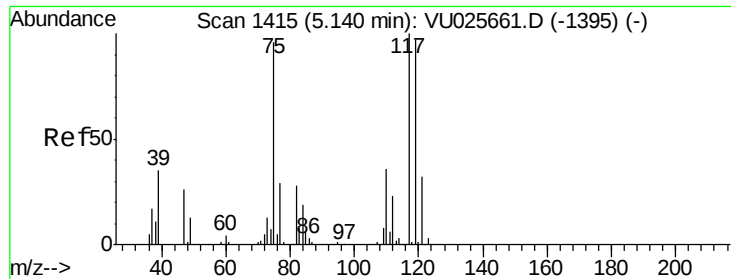


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 70.00 (69.70 to 70.70): VU0





#38

Carbon Tetrachloride

Concen: 4.81 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025696.D

Acq: 28 Jul 2018 02:38

Instrument :

MSVOA_U

ClientSampleId :

RE117D1-071618

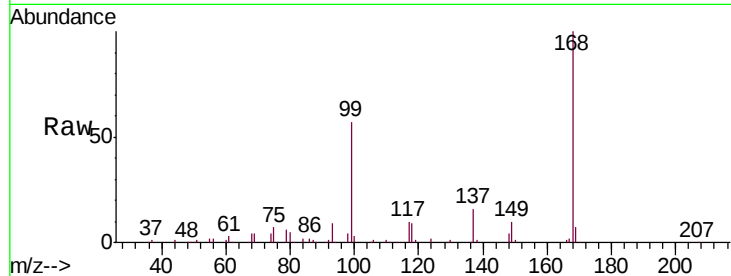
Tot Ion:117 Resp: 17299

Ion Ratio Lower Upper

117 100

119 7.3 75.7 113.5#

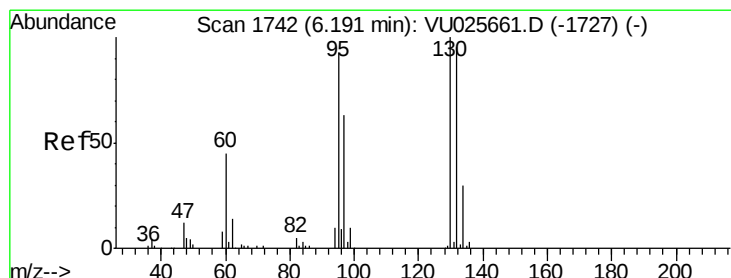
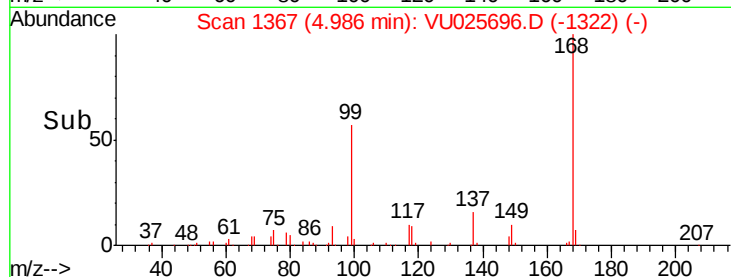
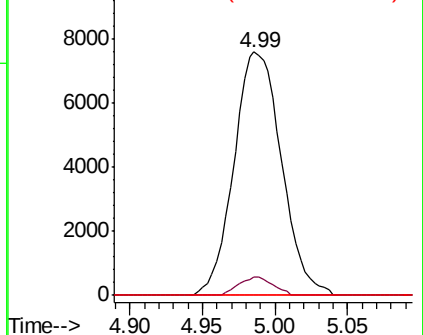
121 0.0 24.6 36.8#



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



#44

Trichloroethene

Concen: 8.16 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU025696.D

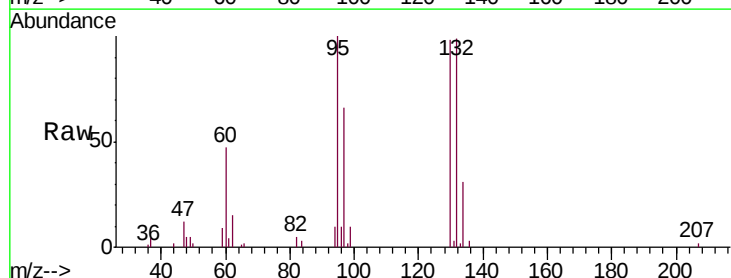
Acq: 28 Jul 2018 02:38

Tgt Ion:130 Resp: 21098

Ion Ratio Lower Upper

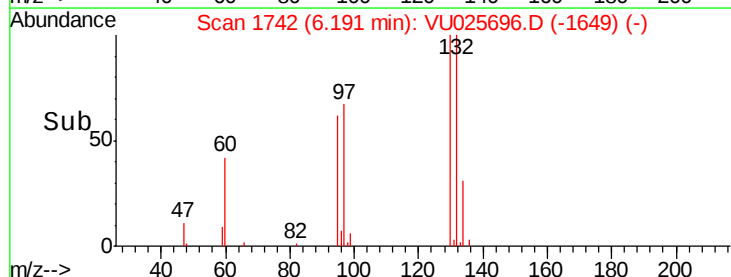
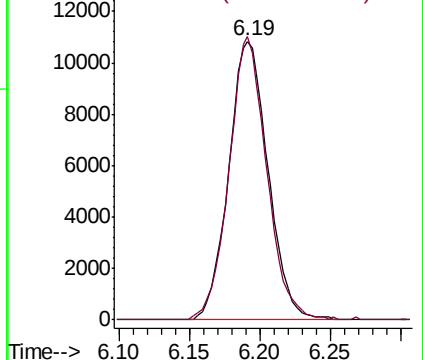
130 100

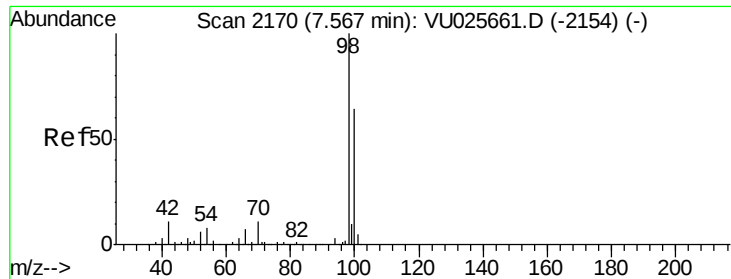
95 101.7 0.0 192.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0





#50

Toluene-d8

Concen: 47.76 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025696.D

Acq: 28 Jul 2018 02:38

Instrument :

MSVOA_U

ClientSampleId :

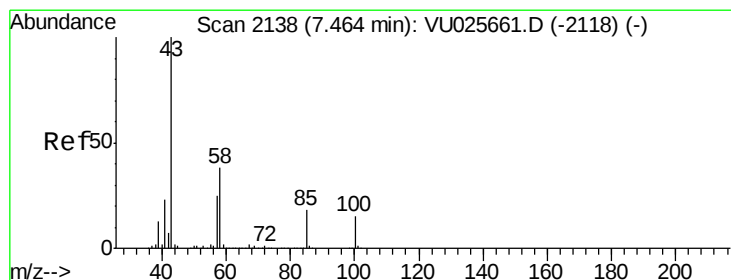
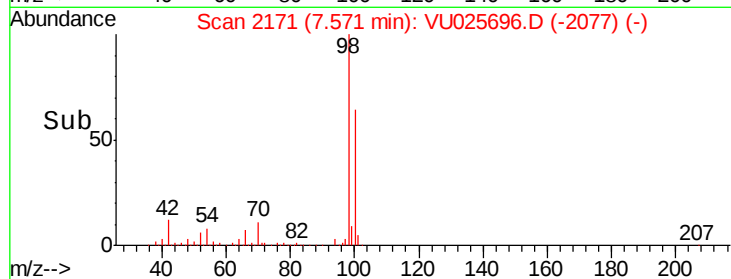
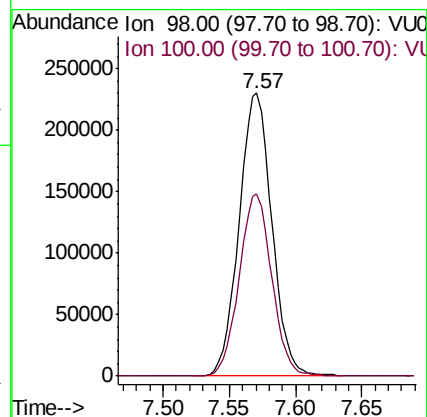
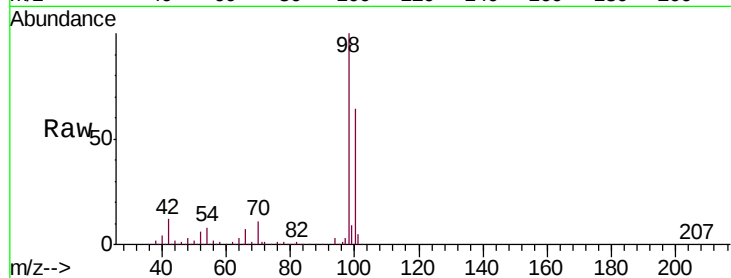
RE117D1-071618

Tot Ion: 98 Resp: 395184

Ion Ratio Lower Upper

98 100

100 64.4 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.49 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.11 min

Lab File: VU025696.D

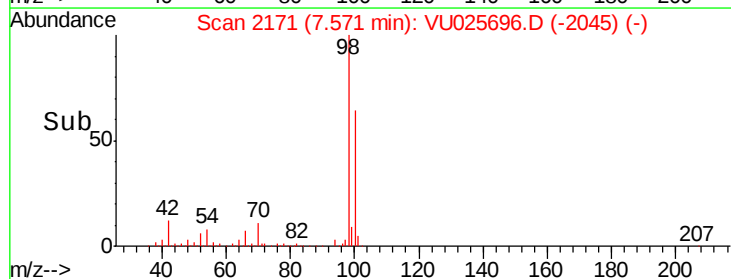
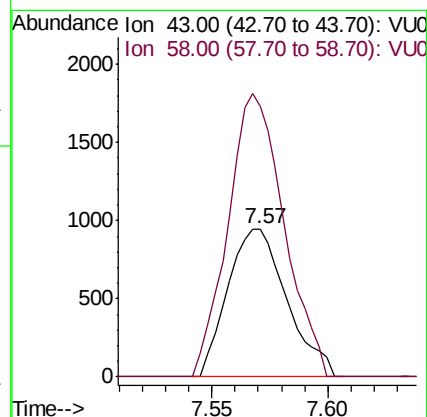
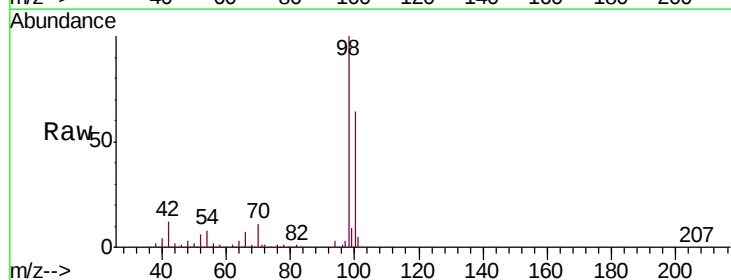
Acq: 28 Jul 2018 02:38

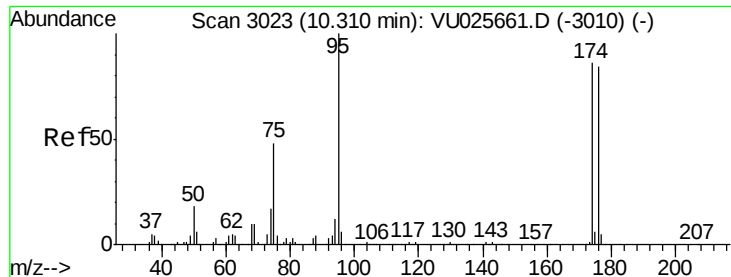
Tgt Ion: 43 Resp: 1677

Ion Ratio Lower Upper

43 100

58 181.1 31.0 46.4#

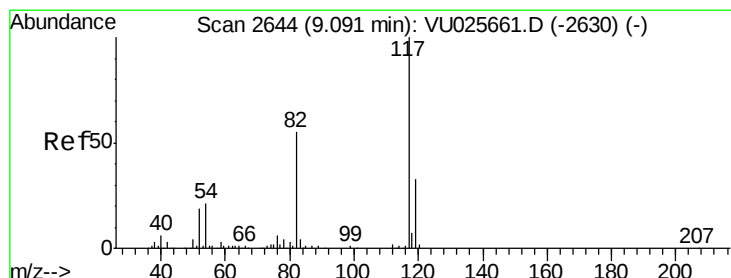
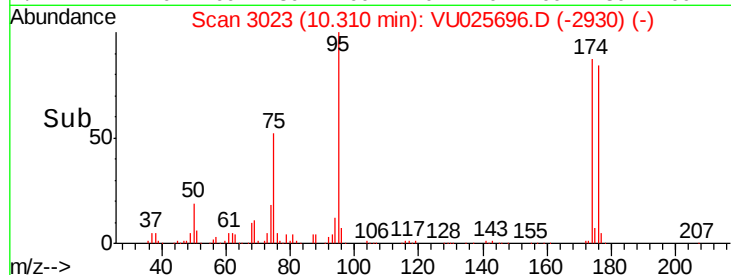
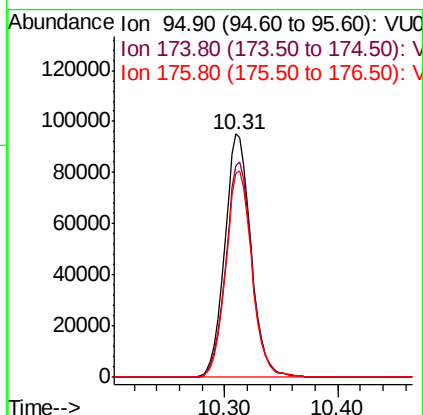
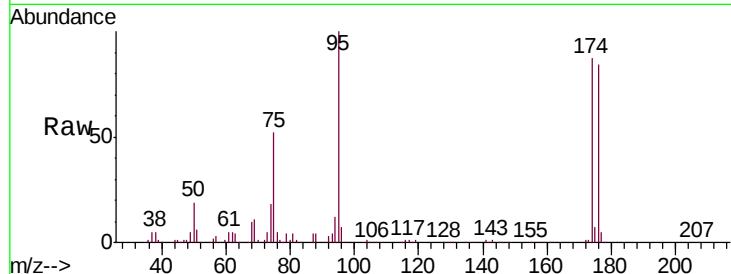




#62
4-Bromofluorobenzene
Concen: 47.57 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025696.D
Acq: 28 Jul 2018 02:38

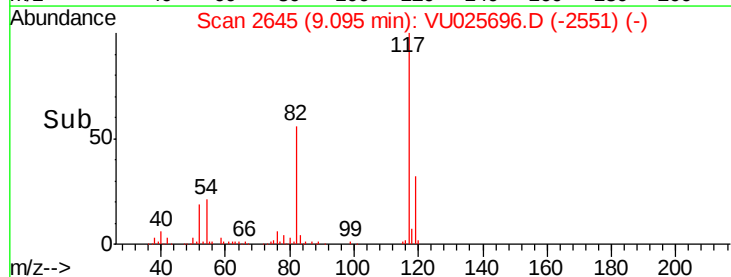
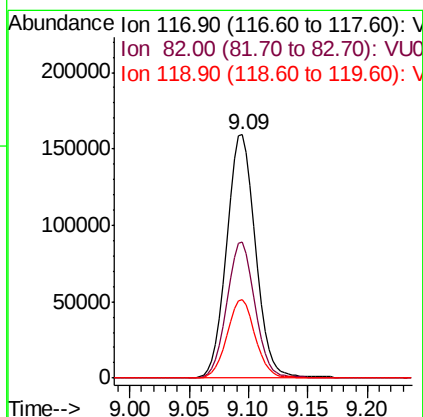
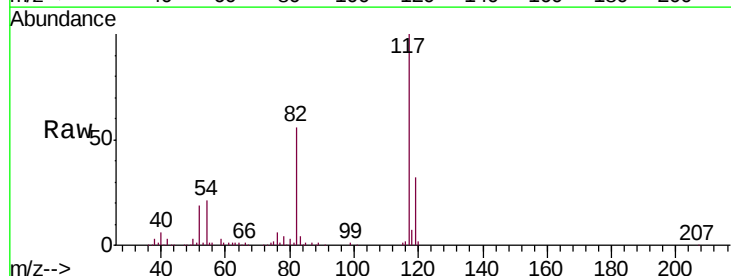
Instrument :
MSVOA_U
ClientSampleId :
RE117D1-071618

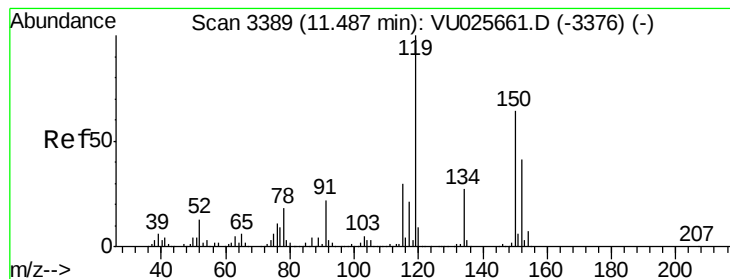
Tot Ion: 95 Resp: 152789
Ion Ratio Lower Upper
95 100
174 89.1 0.0 172.2
176 84.8 0.0 162.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025696.D
Acq: 28 Jul 2018 02:38

Tgt Ion: 117 Resp: 269113
Ion Ratio Lower Upper
117 100
82 55.7 46.0 69.0
119 32.3 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025696.D

Acq: 28 Jul 2018 02:38

Instrument :

MSVOA_U

ClientSampleId :

RE117D1-071618

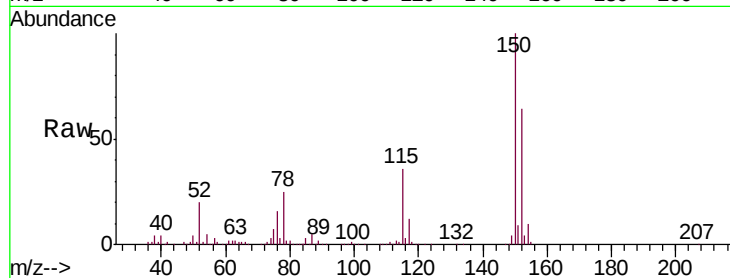
Tot Ion:152 Resp: 159956

Ion Ratio Lower Upper

152 100

115 58.0 40.1 120.3

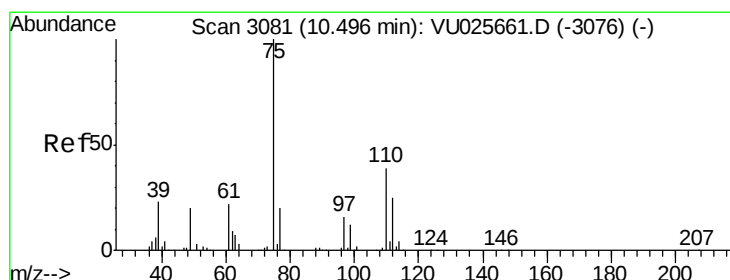
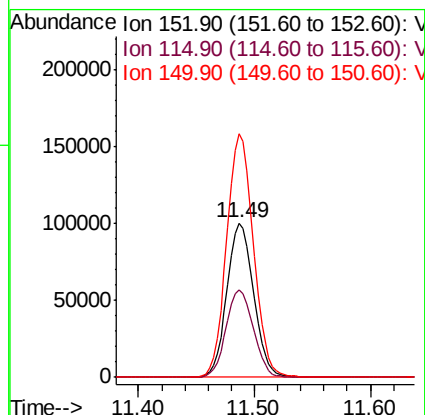
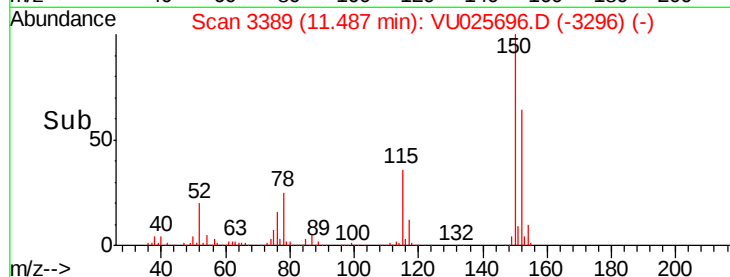
150 157.8 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.38 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025696.D

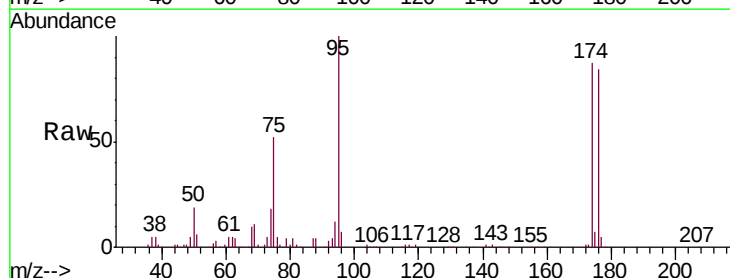
Acq: 28 Jul 2018 02:38

Tgt Ion: 75 Resp: 78882

Ion Ratio Lower Upper

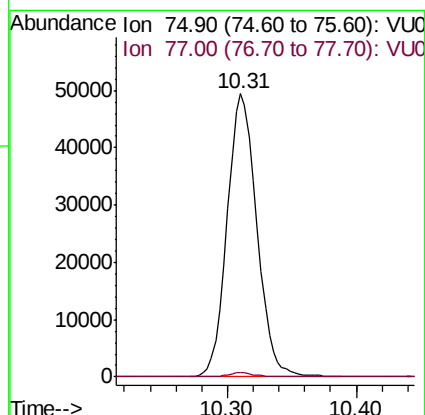
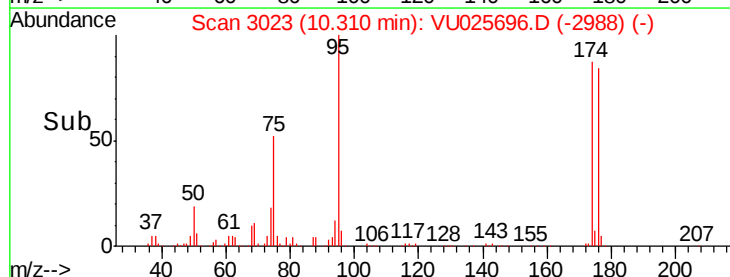
75 100

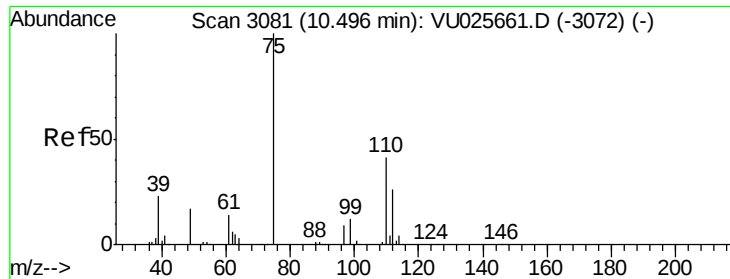
77 1.3 20.4 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

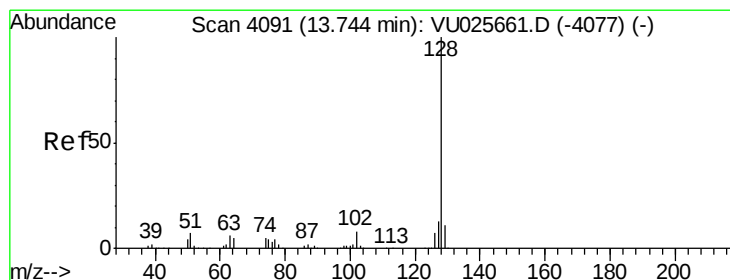
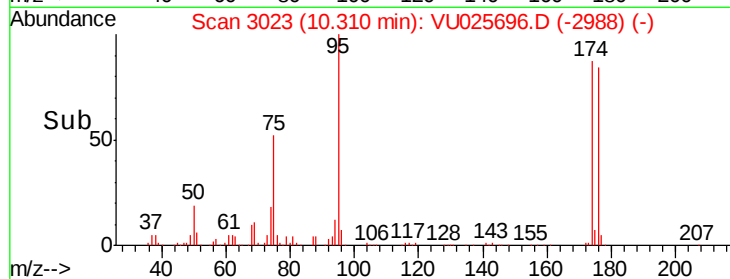
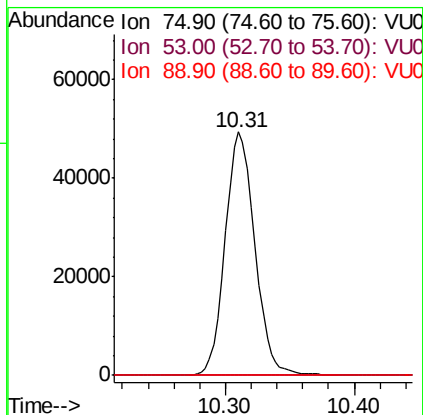
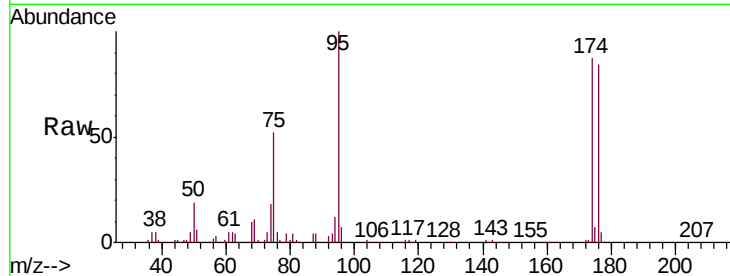




#81
trans-1,4-Dichloro-2-butene
Concen: 56.12 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.19 min
Lab File: VU025696.D
Acq: 28 Jul 2018 02:38

Instrument :
MSVOA_U
ClientSampleId :
RE117D1-071618

Tot Ion: 75 Resp: 78882
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 1.26 ug/l
RT: 13.76 min Scan# 4097
Delta R.T. 0.02 min
Lab File: VU025696.D
Acq: 28 Jul 2018 02:38

Tgt Ion: 128 Resp: 121
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.3 12.5#

