

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062018\
 Data File : VU024791.D
 Acq On : 21 Jun 2018 05:40
 Operator : MD/SY
 Sample : J3585-10
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CKMW20

Quant Time: Jun 21 07:59:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	193189	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	296898	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	279985	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	153137	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	138691	43.98	ug/l	0.00
Spiked Amount			Recovery	=	87.96%	
35) Dibromofluoromethane	4.89	113	116240	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
50) Toluene-d8	7.57	98	437445	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
62) 4-Bromofluorobenzene	10.31	95	159958	44.82	ug/l	0.00
Spiked Amount			Recovery	=	89.64%	

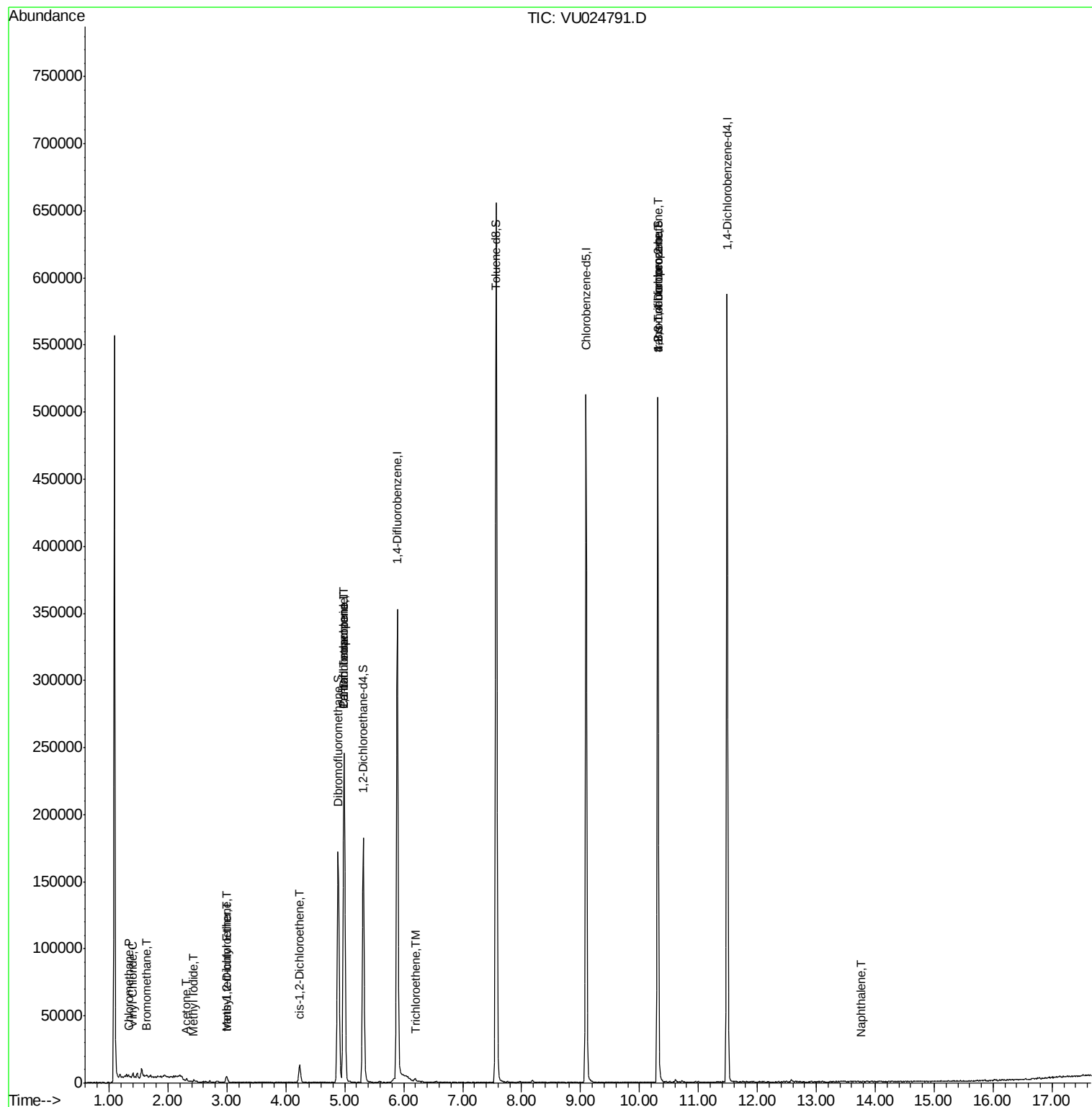
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1163	0.471	ug/l	97
4) Vinyl Chloride	1.40	62	1938	0.761	ug/l	91
5) Bromomethane	1.64	94	518	0.421	ug/l #	79
6) Chloroethane	1.70	64	470	Below Cal	#	74
10) Methyl Iodide	2.42	142	40	5.306	ug/l #	40
16) Acetone	2.32	43	1580	0.932	ug/l	96
19) Methyl tert-butyl Ether	3.00	73	2022	0.245	ug/l #	90
21) trans-1,2-Dichloroethene	2.99	96	1301	0.537	ug/l #	81
27) cis-1,2-Dichloroethene	4.23	96	7603	2.730	ug/l	88
31) Cyclohexane	4.99	56	3824	Below Cal	#	6
36) 1,1-Dichloropropene	4.99	75	13952	3.999	ug/l #	50
38) Carbon Tetrachloride	4.99	117	18731	4.882	ug/l #	16
44) Trichloroethene	6.20	130	873	0.309	ug/l	99
76) 1,2,3-Trichloropropane	10.31	75	82316	24.415	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	82316	56.507	ug/l #	100
95) Naphthalene	13.76	128	106	0.689	ug/l #	69

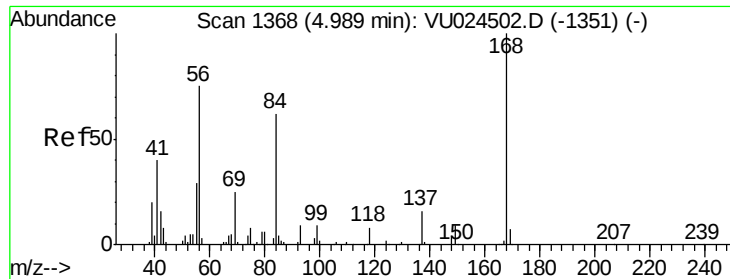
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU024791.D

Acq: 21 Jun 2018 05:40

Instrument :

MSVOA_U

ClientSampleId :

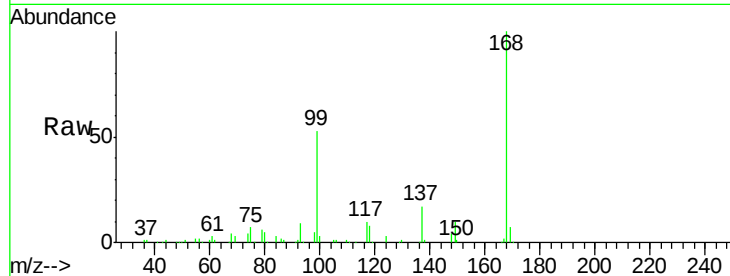
CKMW20

Tgt Ion:168 Resp: 193189

Ion Ratio Lower Upper

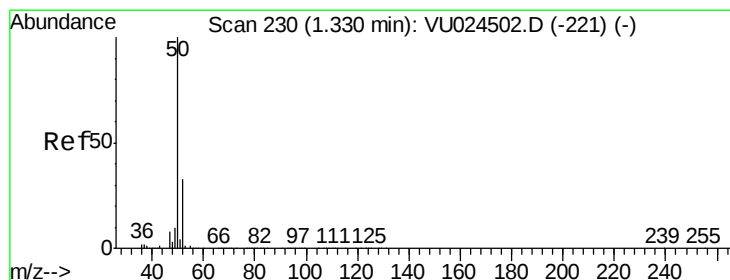
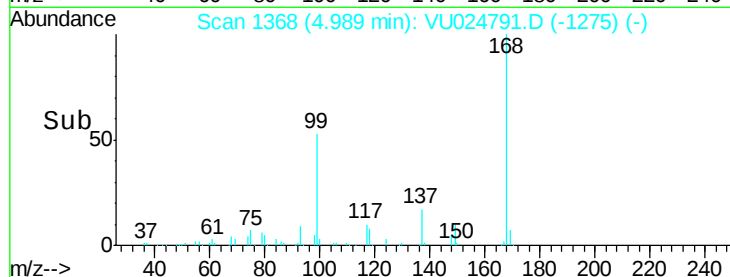
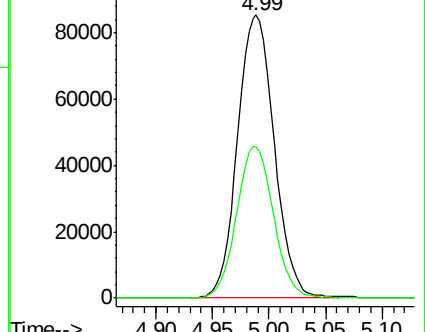
168 100

99 53.4 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)



#3

Chloromethane

Concen: 0.471 ug/l

RT: 1.33 min Scan# 229

Delta R.T. -0.00 min

Lab File: VU024791.D

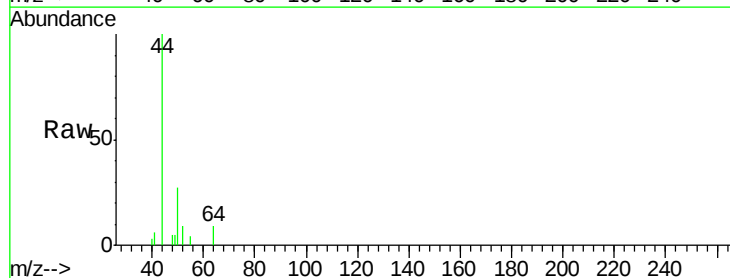
Acq: 21 Jun 2018 05:40

Tgt Ion: 50 Resp: 1163

Ion Ratio Lower Upper

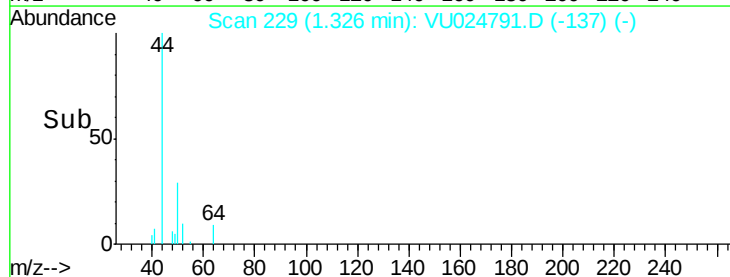
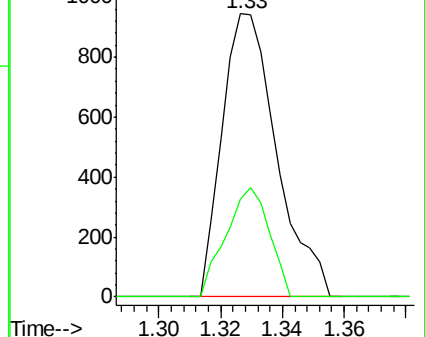
50 100

52 34.4 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU024502.D (-221) (-)





#4

Vinyl Chloride

Concen: 0.761 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU024791.D

Acq: 21 Jun 2018 05:40

Instrument :

MSVOA_U

ClientSampleId :

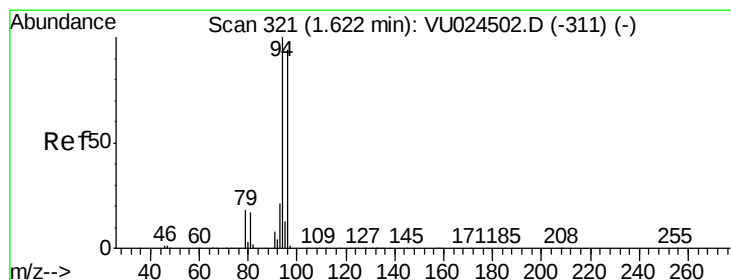
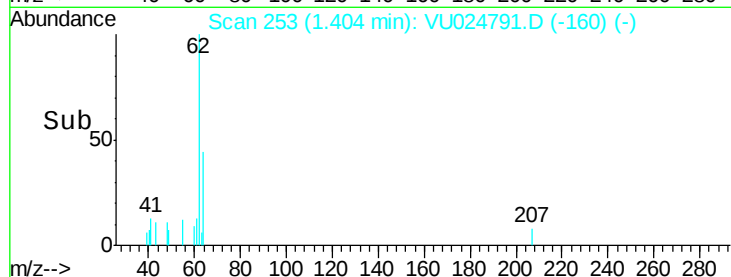
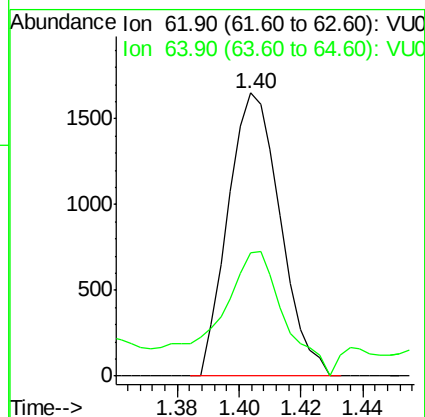
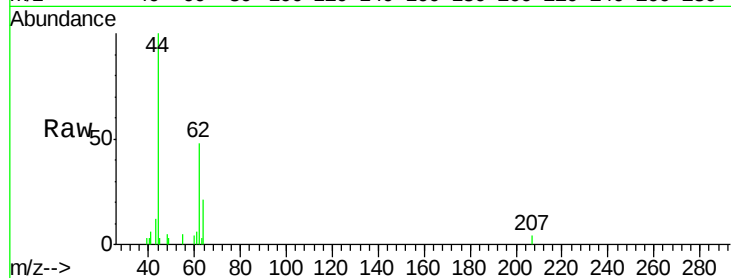
CKMW20

Tgt Ion: 62 Resp: 1938

Ion Ratio Lower Upper

62 100

64 36.2 24.8 37.2



#5

Bromomethane

Concen: 0.421 ug/l

RT: 1.64 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU024791.D

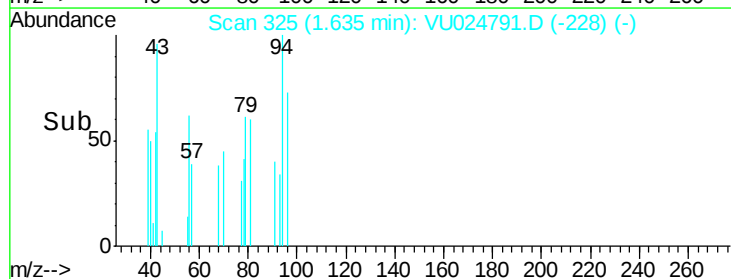
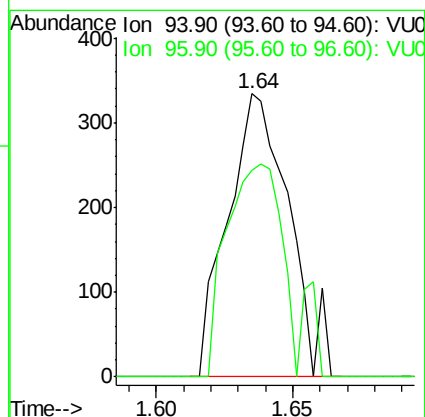
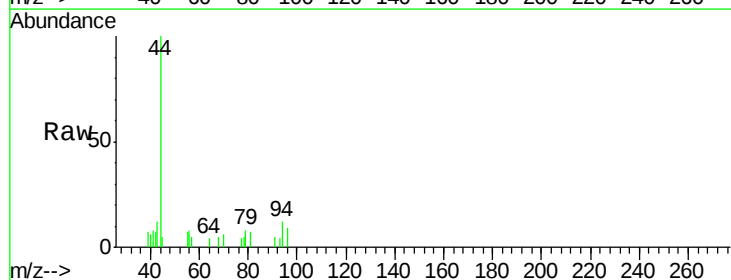
Acq: 21 Jun 2018 05:40

Tgt Ion: 94 Resp: 518

Ion Ratio Lower Upper

94 100

96 73.1 74.5 111.7#





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU024791.D

Acq: 21 Jun 2018 05:40

Instrument :

MSVOA_U

ClientSampleId :

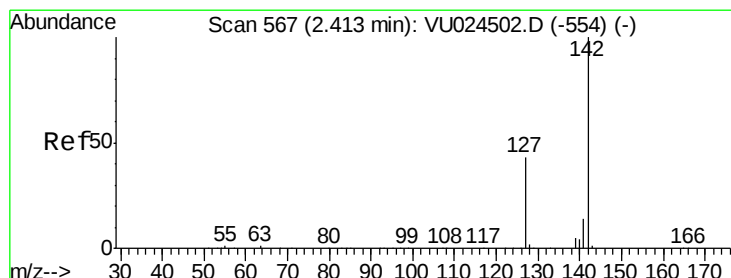
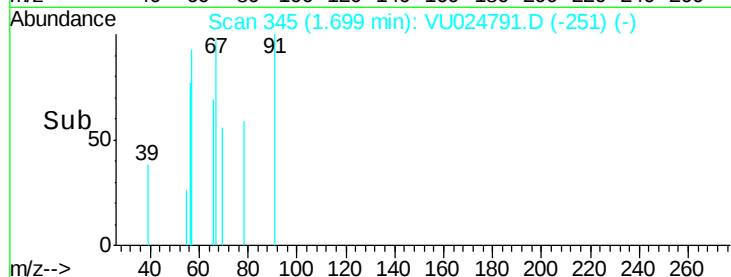
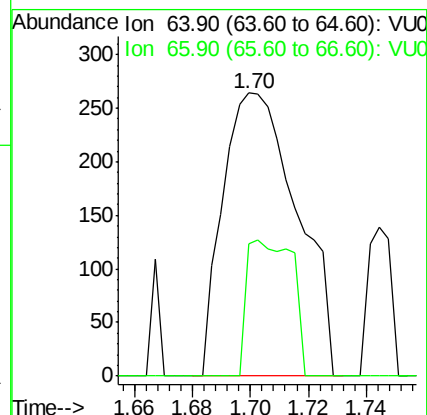
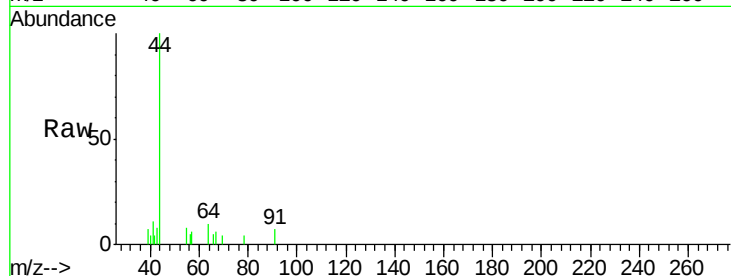
CKMW20

Tgt Ion: 64 Resp: 470

Ion Ratio Lower Upper

64 100

66 46.6 25.5 38.3#



#10

Methyl Iodide

Concen: 5.306 ug/l

RT: 2.42 min Scan# 570

Delta R.T. 0.01 min

Lab File: VU024791.D

Acq: 21 Jun 2018 05:40

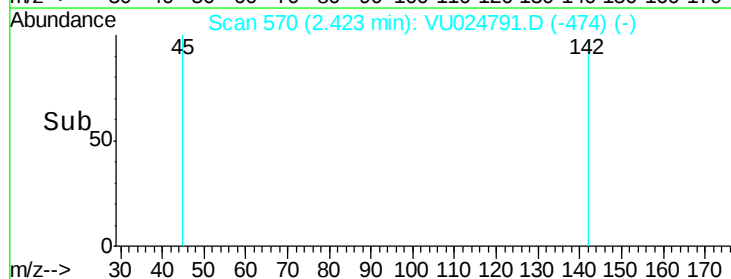
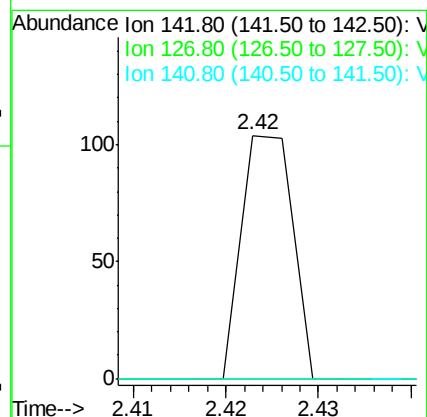
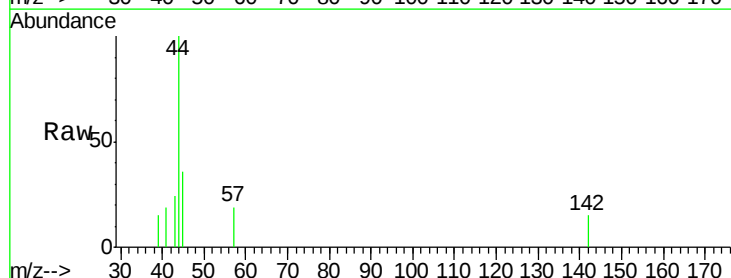
Tgt Ion: 142 Resp: 40

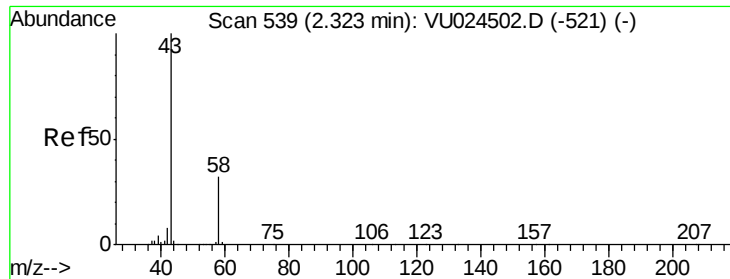
Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

141 0.0 11.7 17.5#





#16

Acetone

Concen: 0.932 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU024791.D

Acq: 21 Jun 2018 05:40

Instrument :

MSVOA_U

ClientSampleId :

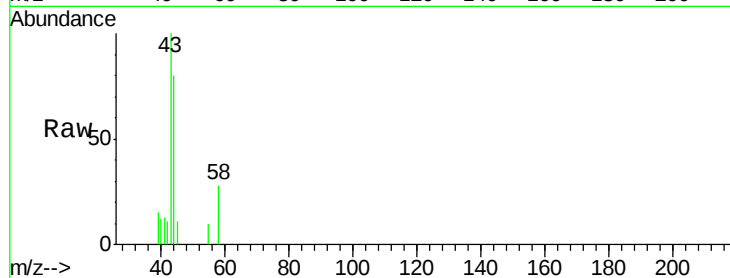
CKMW20

Tgt Ion: 43 Resp: 1580

Ion Ratio Lower Upper

43 100

58 32.6 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

1200

1000

800

600

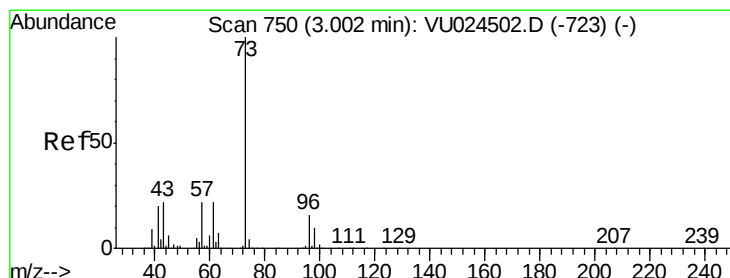
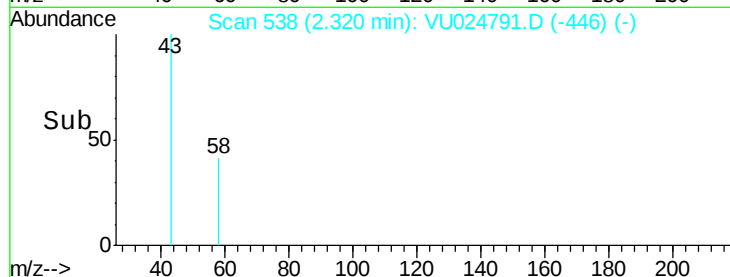
400

200

0

2.30 2.35

Time-->



#19

Methyl tert-butyl Ether

Concen: 0.245 ug/l

RT: 3.00 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU024791.D

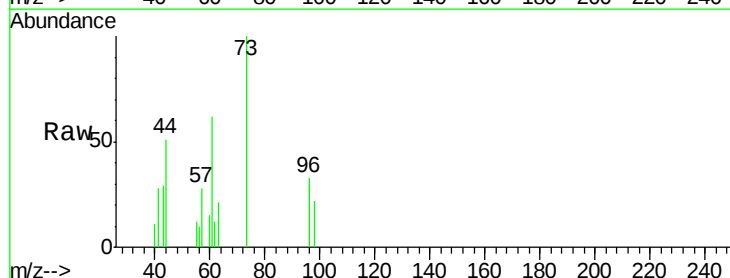
Acq: 21 Jun 2018 05:40

Tgt Ion: 73 Resp: 2022

Ion Ratio Lower Upper

73 100

57 28.2 18.8 28.2#



Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

3.00

1200

1000

800

600

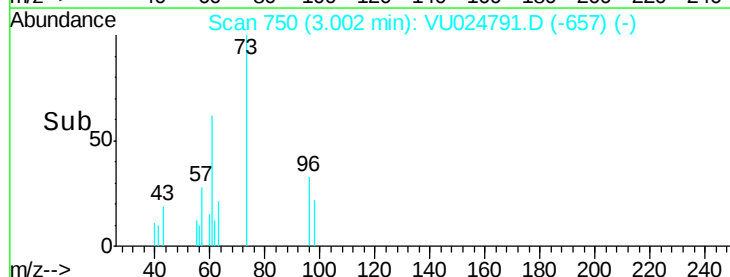
400

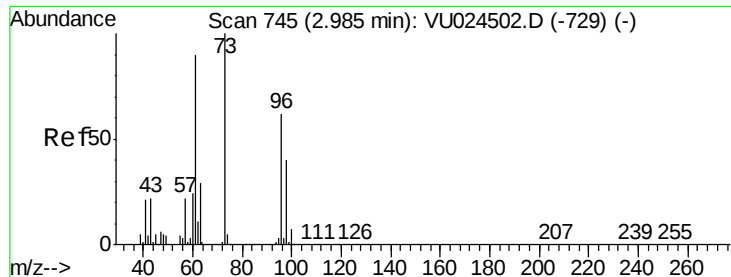
200

0

2.95 3.00 3.05

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.537 ug/l

RT: 2.99 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU024791.D

Acq: 21 Jun 2018 05:40

Instrument :

MSVOA_U

ClientSampleId :

CKMW20

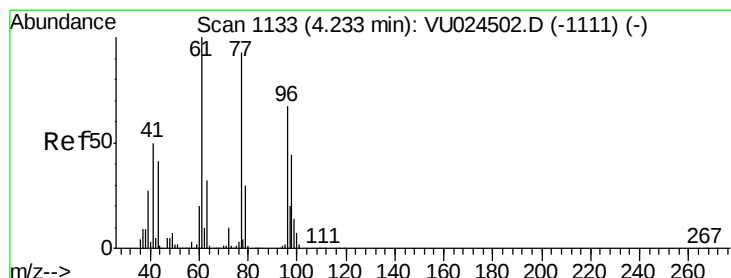
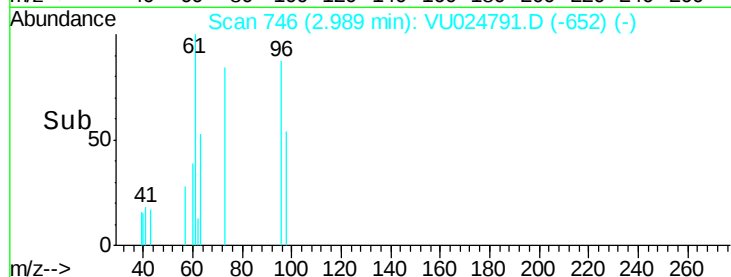
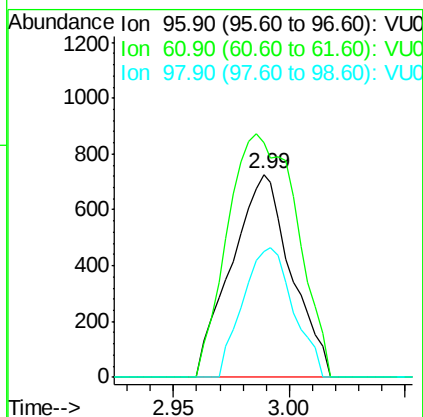
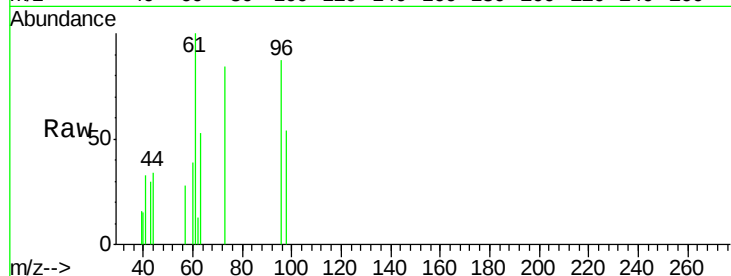
Tgt Ion: 96 Resp: 1301

Ion Ratio Lower Upper

96 100

61 115.5 119.4 179.0#

98 62.2 51.1 76.7



#27

cis-1,2-Dichloroethene

Concen: 2.730 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VU024791.D

Acq: 21 Jun 2018 05:40

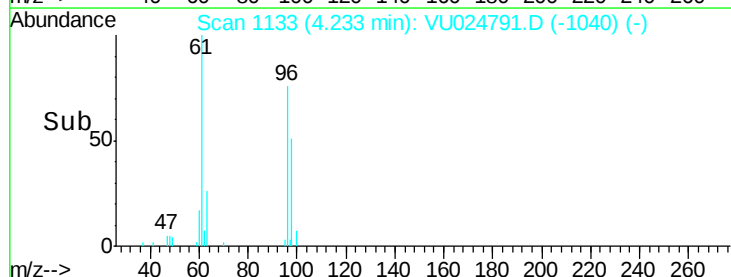
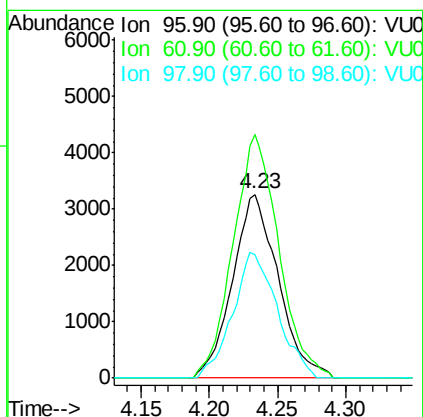
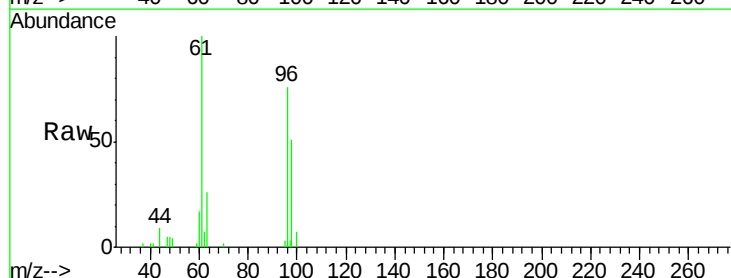
Tgt Ion: 96 Resp: 7603

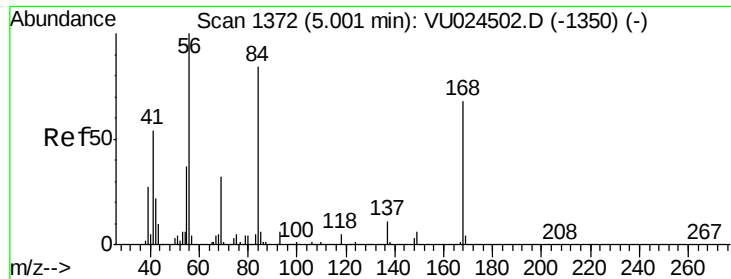
Ion Ratio Lower Upper

96 100

61 132.2 0.0 306.6

98 66.4 0.0 128.8

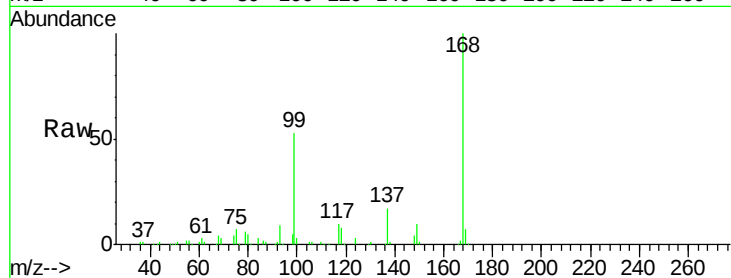




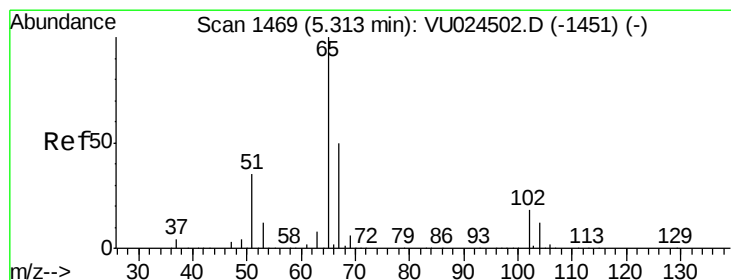
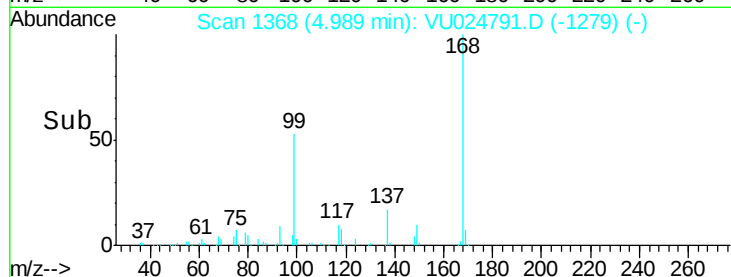
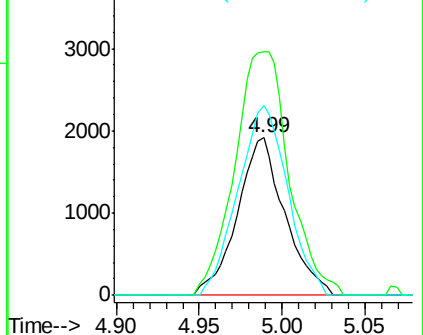
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU024791.D
Acq: 21 Jun 2018 05:40

Instrument :
MSVOA_U
ClientSampleId :
CKMW20

Tgt Ion: 56 Resp: 3824
Ion Ratio Lower Upper
56 100
69 154.6 24.8 37.2#
84 121.0 65.2 97.8#

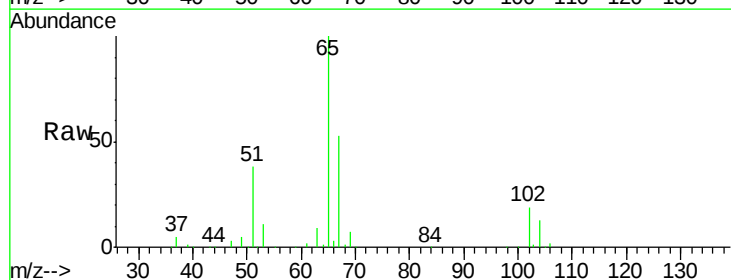


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

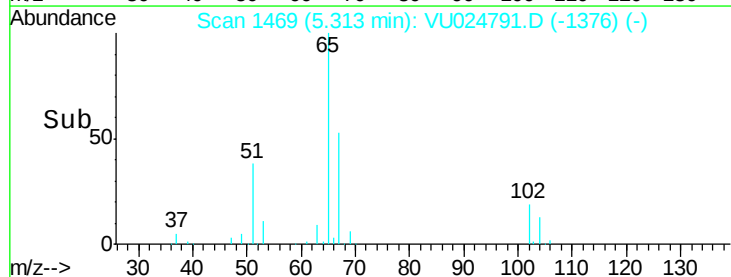
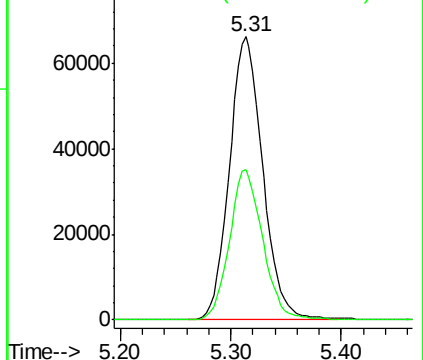


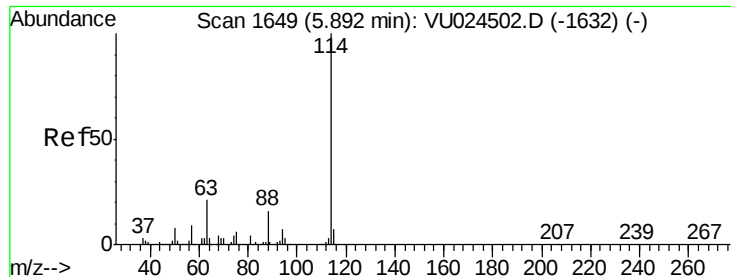
#33
1,2-Dichloroethane-d4
Concen: 43.975 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU024791.D
Acq: 21 Jun 2018 05:40

Tgt Ion: 65 Resp: 138691
Ion Ratio Lower Upper
65 100
67 53.0 0.0 107.0



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: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU024791.D

Acq: 21 Jun 2018 05:40

Instrument :

MSVOA_U

ClientSampleId :

CKMW20

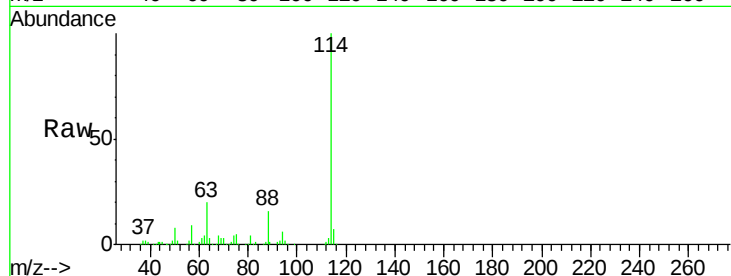
Tgt Ion:114 Resp: 296898

Ion Ratio Lower Upper

114 100

63 20.2 0.0 45.4

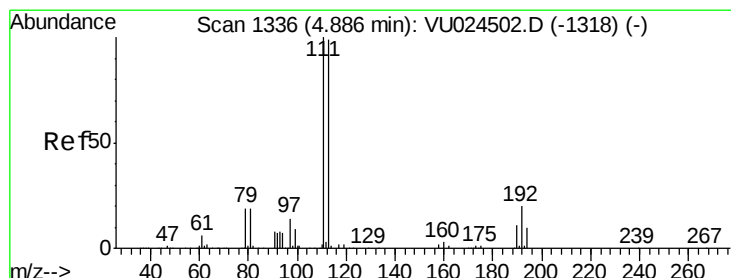
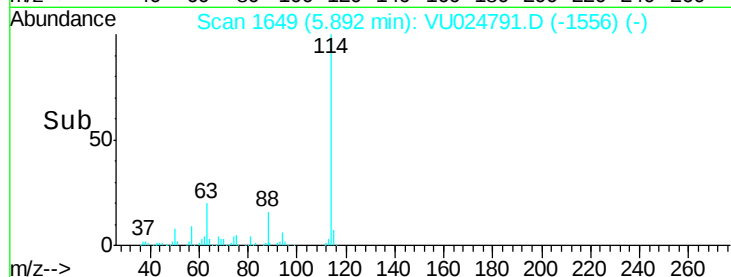
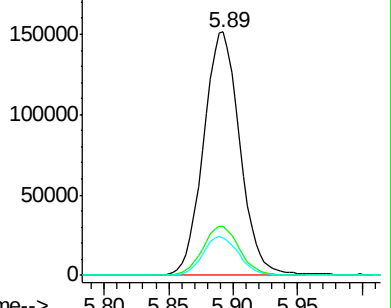
88 15.6 0.0 31.0



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: 47.175 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU024791.D

Acq: 21 Jun 2018 05:40

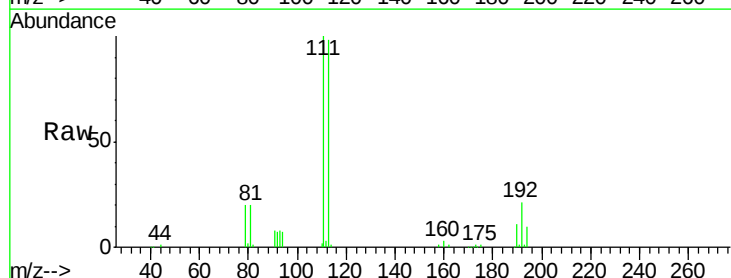
Tgt Ion:113 Resp: 116240

Ion Ratio Lower Upper

113 100

111 102.1 82.2 123.4

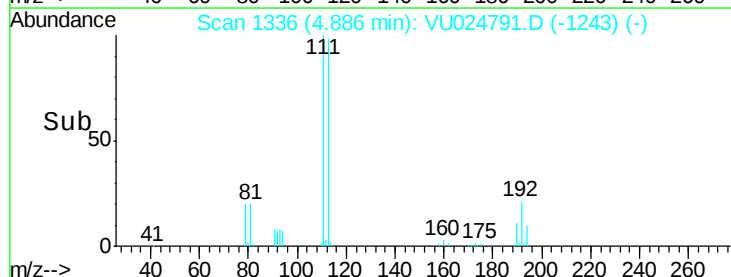
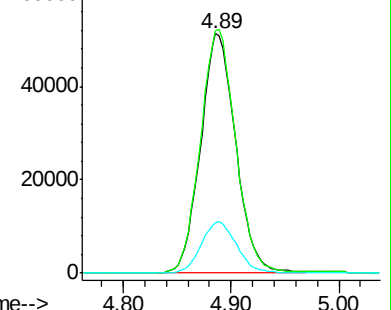
192 21.5 16.2 24.4

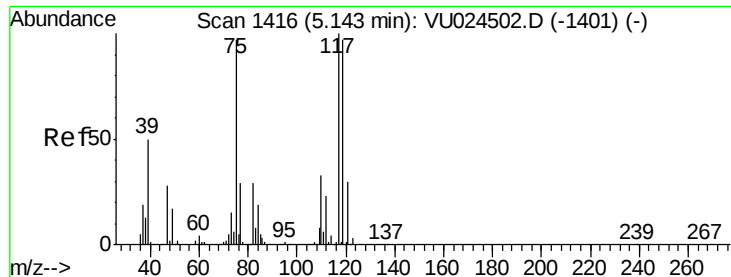


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

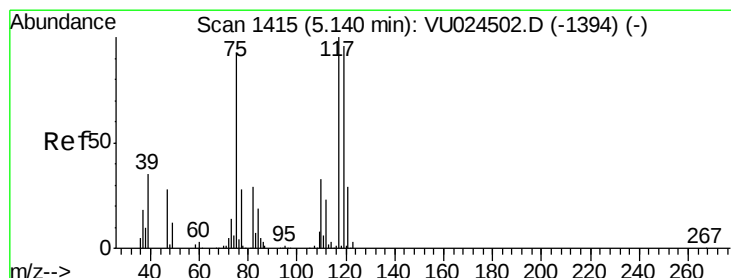
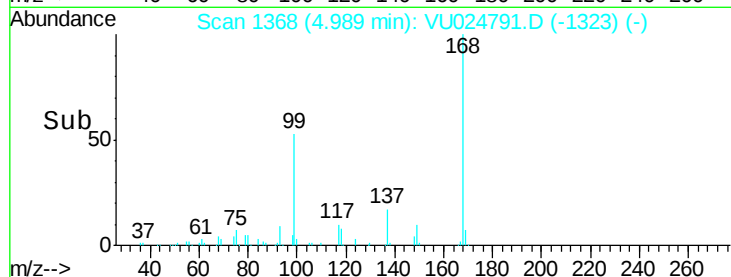
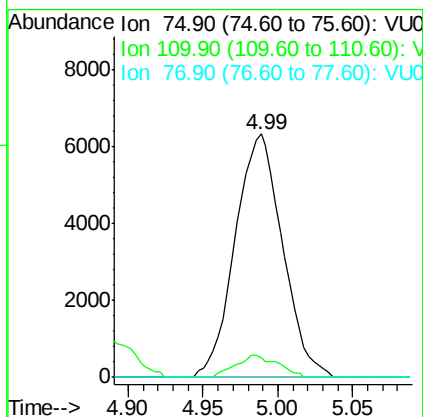
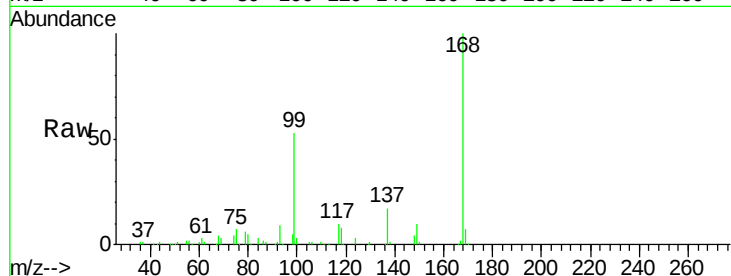




#36
 1,1-Dichloropropene
 Concen: 3.999 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024791.D
 Acq: 21 Jun 2018 05:40

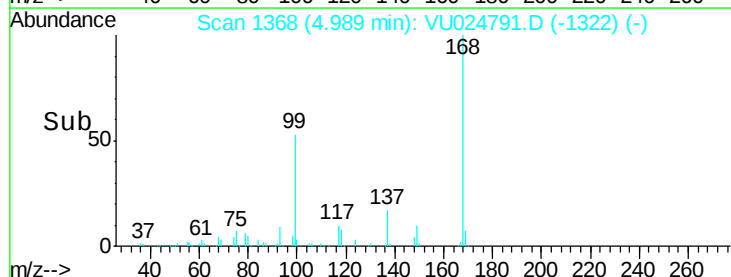
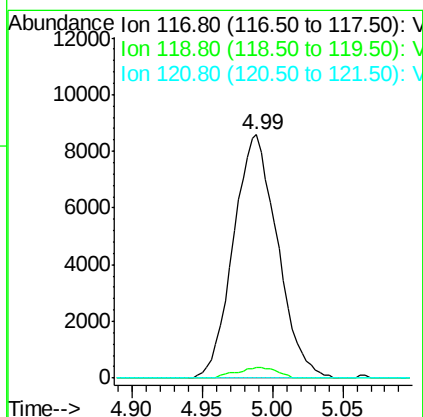
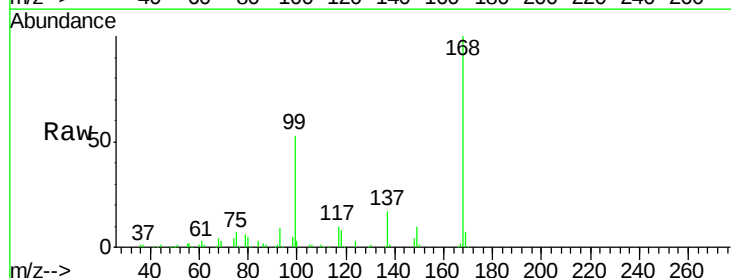
Instrument :
 MSVOA_U
 ClientSampled :
 CKMW20

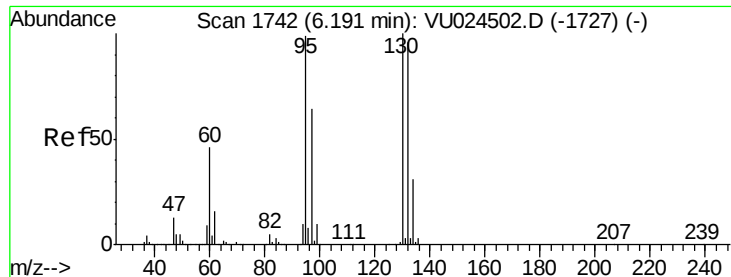
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 4.882 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024791.D
 Acq: 21 Jun 2018 05:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	76.1	114.1#
121	0.0	23.7	35.5#





#44

Trichloroethene

Concen: 0.309 ug/l

RT: 6.20 min Scan# 1744

Delta R.T. 0.01 min

Lab File: VU024791.D

Acq: 21 Jun 2018 05:40

Instrument :

MSVOA_U

ClientSampleId :

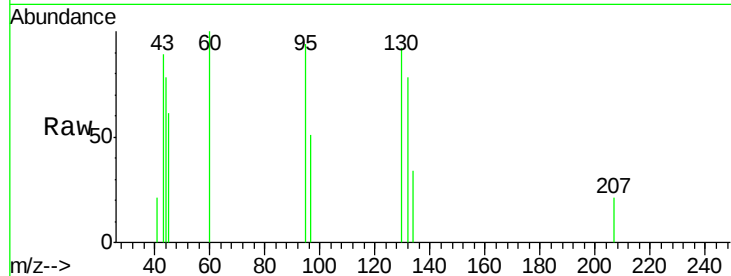
CKMW20

Tgt Ion:130 Resp: 873

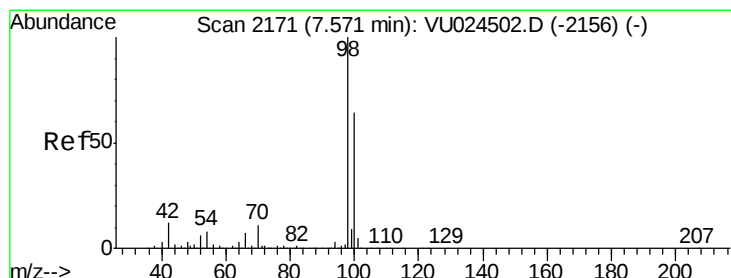
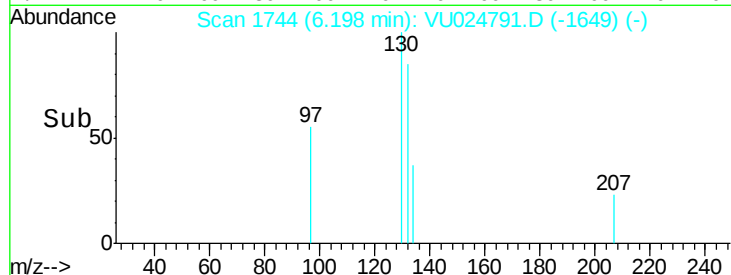
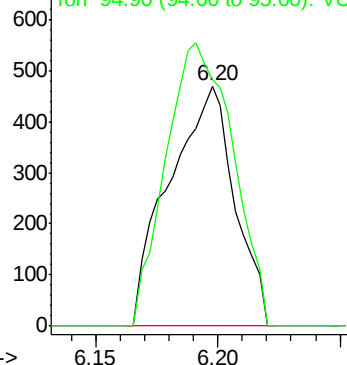
Ion Ratio Lower Upper

130 100

95 102.3 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): VU024791.D (-1649) (-)



#50

Toluene-d8

Concen: 48.671 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024791.D

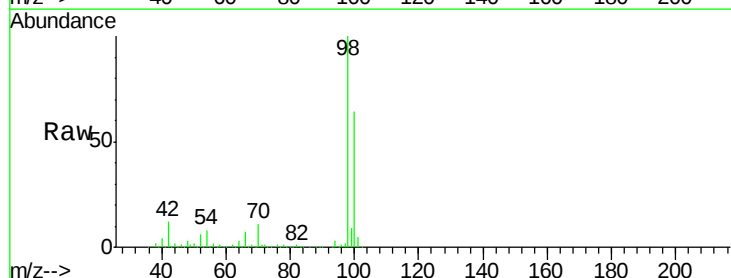
Acq: 21 Jun 2018 05:40

Tgt Ion: 98 Resp: 437445

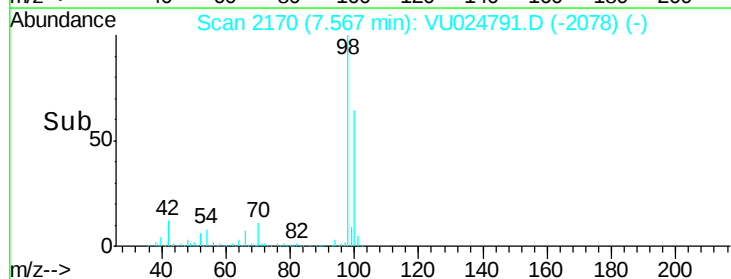
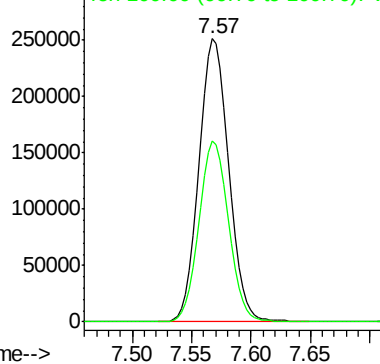
Ion Ratio Lower Upper

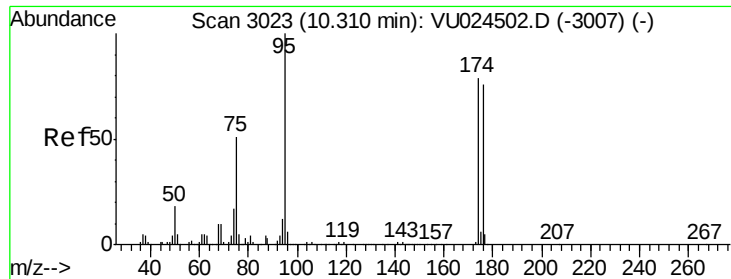
98 100

100 63.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU024791.D (-2078) (-)

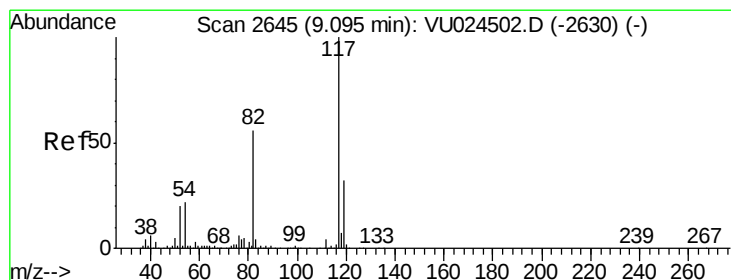
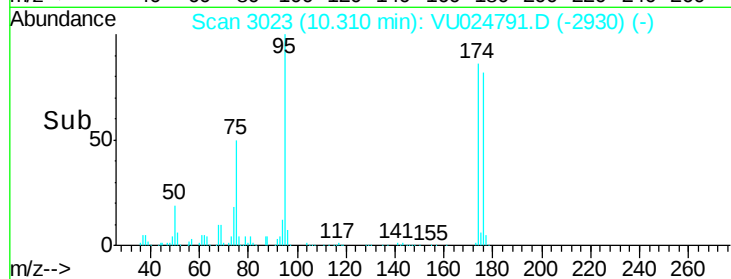
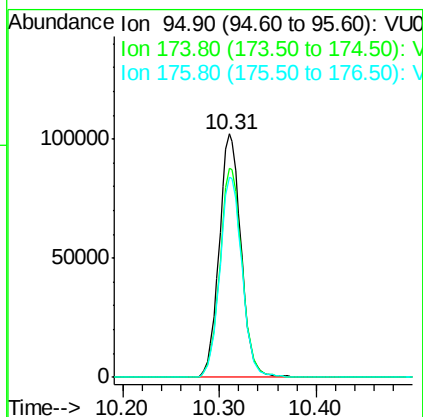
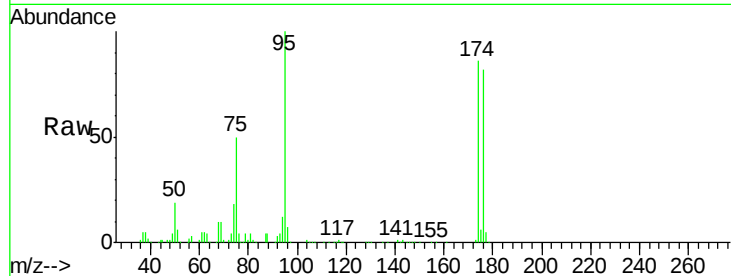




#62
4-Bromofluorobenzene
Concen: 44.825 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU024791.D
Acq: 21 Jun 2018 05:40

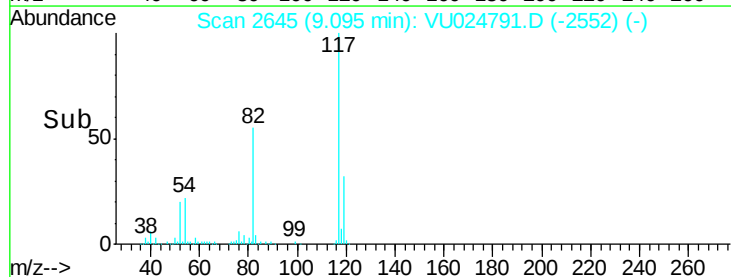
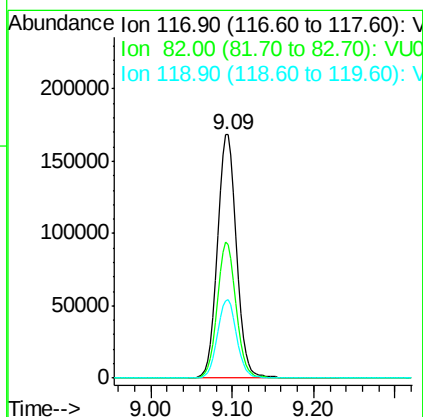
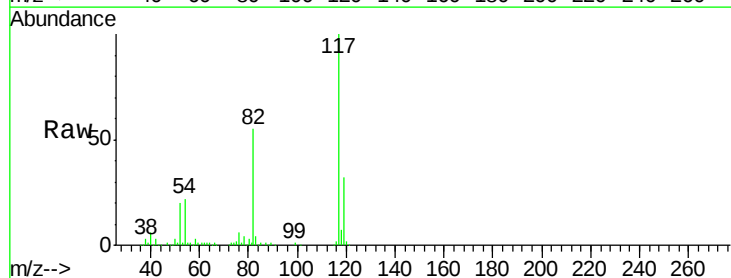
Instrument :
MSVOA_U
ClientSampleId :
CKMW20

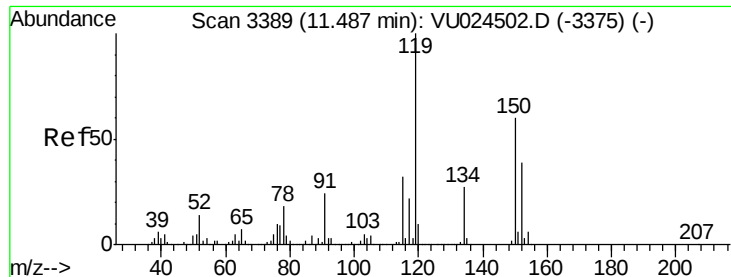
Tgt Ion	Ratio	Lower	Upper
95	100		
174	86.9	0.0	165.8
176	83.5	0.0	159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024791.D
Acq: 21 Jun 2018 05:40

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.9	44.3	66.5
119	32.3	25.4	38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024791.D

Acq: 21 Jun 2018 05:40

Instrument :

MSVOA_U

ClientSampleId :

CKMW20

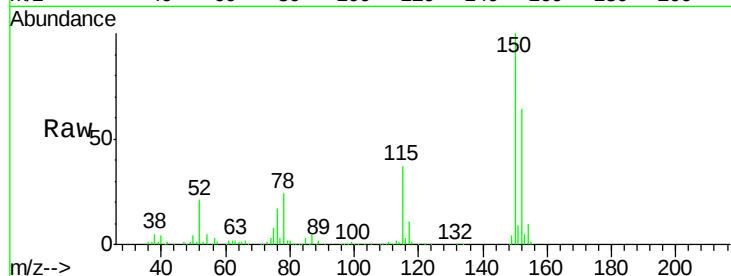
Tgt Ion:152 Resp: 153137

Ion Ratio Lower Upper

152 100

115 56.6 43.0 129.0

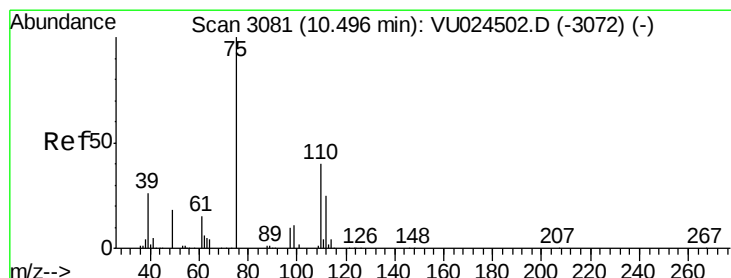
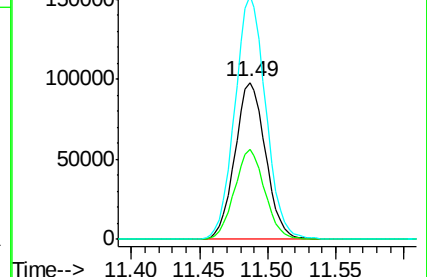
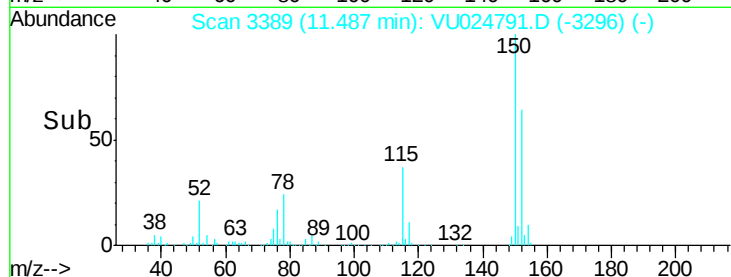
150 155.9 0.0 354.0



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



#76

1,2,3-Trichloropropane

Concen: 24.415 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024791.D

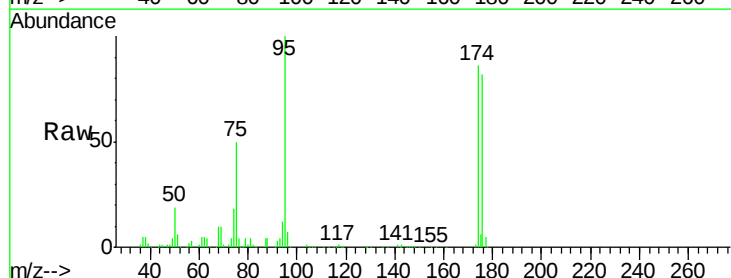
Acq: 21 Jun 2018 05:40

Tgt Ion: 75 Resp: 82316

Ion Ratio Lower Upper

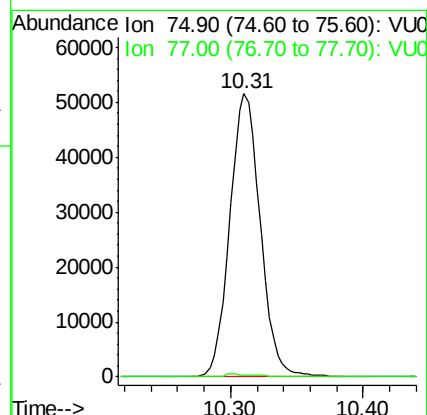
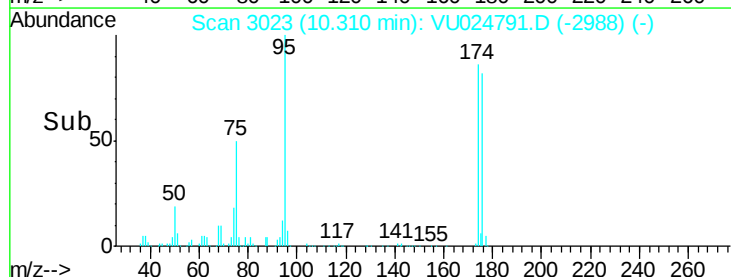
75 100

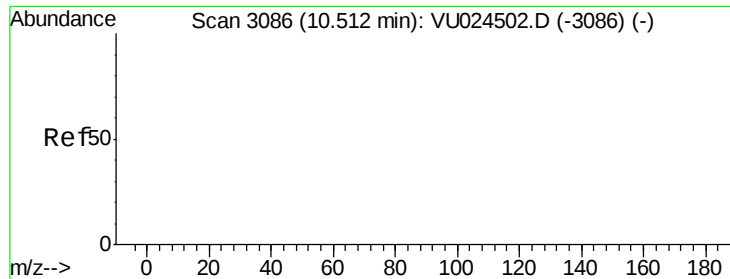
77 0.7 20.9 62.7#



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: 56.507 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024791.D

Acq: 21 Jun 2018 05:40

Instrument :

MSVOA_U

ClientSampleId :

CKMW20

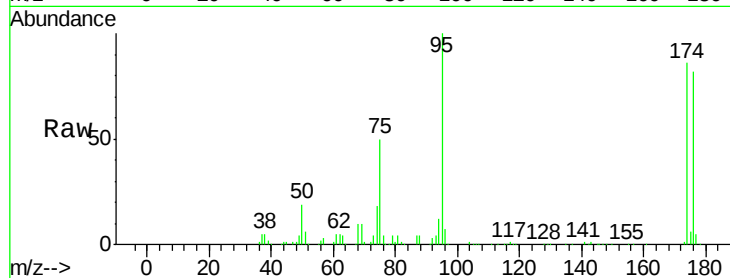
Tgt Ion: 75 Resp: 82316

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

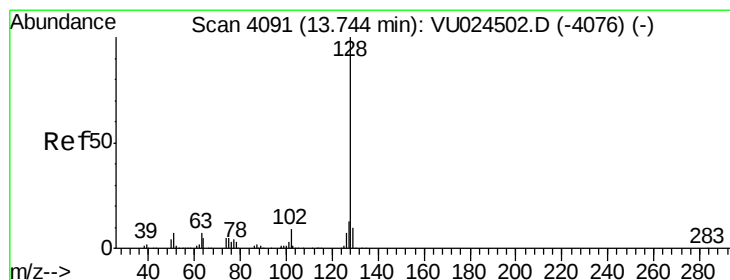
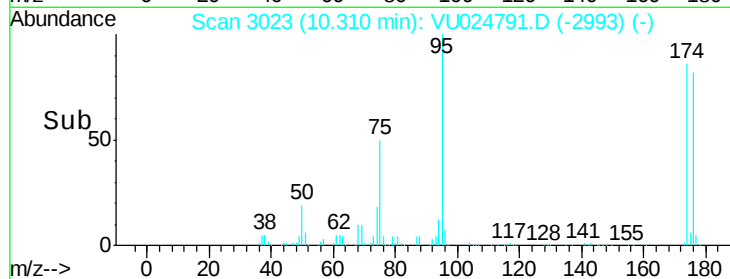
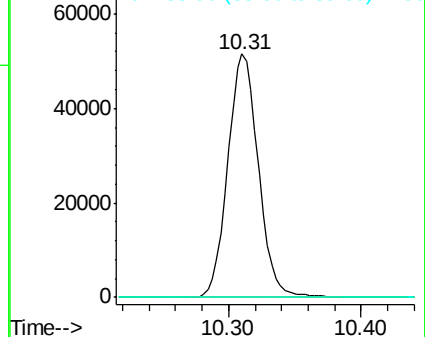
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024791.D (-2993) (-)

Ion 53.00 (52.70 to 53.70): VU024791.D (-2993) (-)

Ion 88.90 (88.60 to 89.60): VU024791.D (-2993) (-)



#95

Naphthalene

Concen: 0.689 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU024791.D

Acq: 21 Jun 2018 05:40

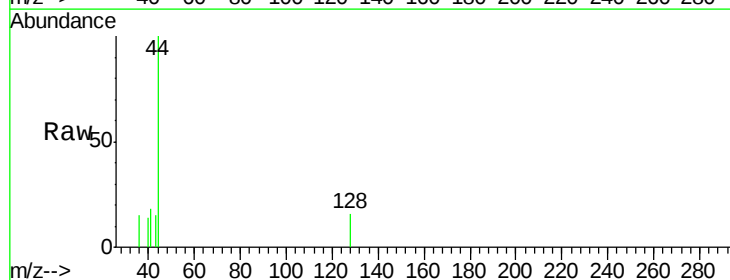
Tgt Ion: 128 Resp: 106

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU024791.D (-3997) (-)

Ion 127.00 (126.70 to 127.70): VU024791.D (-3997) (-)

Ion 129.00 (128.70 to 129.70): VU024791.D (-3997) (-)

