

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081518\
 Data File : VX004087.D
 Acq On : 15 Aug 2018 21:48
 Operator : JC/MD
 Sample : J4439-20
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-293-SRI3

Quant Time: Aug 16 05:54:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	235113	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	374001	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	364611	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	187888	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	181407	54.76	ug/l	0.00
Spiked Amount			Recovery	=	109.52%	
35) Dibromofluoromethane	5.50	113	153074	54.69	ug/l	0.00
Spiked Amount			Recovery	=	109.38%	
50) Toluene-d8	8.72	98	541161	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
62) 4-Bromofluorobenzene	11.14	95	181280	44.04	ug/l	0.00
Spiked Amount			Recovery	=	88.08%	

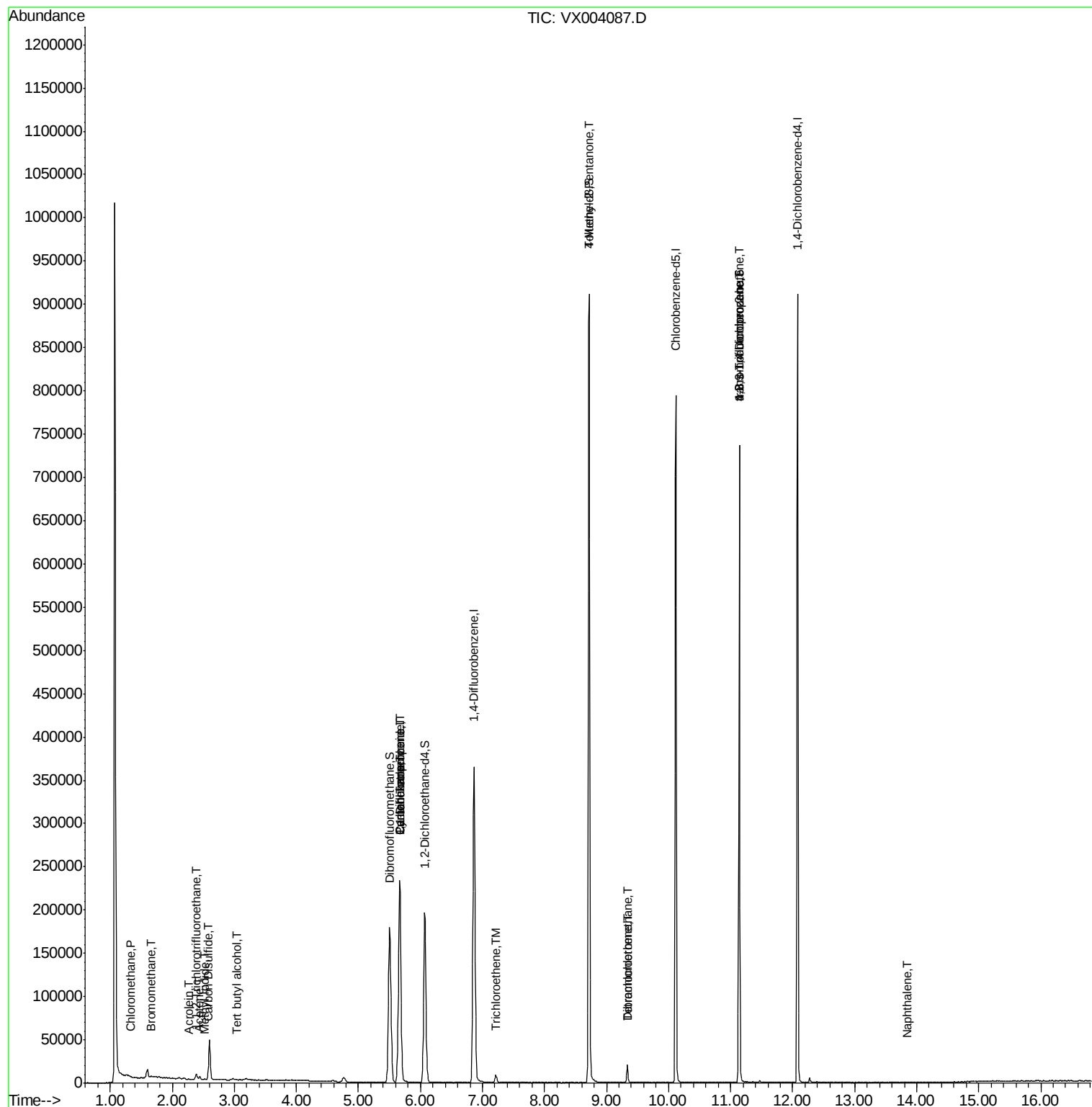
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	697	0.25	ug/l	94
5) Bromomethane	1.65	94	668	0.26	ug/l	97
6) Chloroethane	1.61	64	3195	Below Cal	#	54
9) 1,1,2-Trichlorotrifluoroet	2.39	101	2347	0.88	ug/l	99
10) Methyl Iodide	2.52	142	398	5.14	ug/l	# 86
11) Tert butyl alcohol	3.03	59	584	0.88	ug/l	# 93
13) Acrolein	2.26	56	98	11.16	ug/l	99
16) Acetone	2.44	43	3226	1.87	ug/l	# 87
17) Carbon Disulfide	2.57	76	2124	0.30	ug/l	# 86
20) Methylene Chloride	2.86	84	224	Below Cal	#	89
31) Cyclohexane	5.66	56	4474	0.98	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	16195	3.81	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	21127	5.11	ug/l	# 15
44) Trichloroethene	7.22	130	3418	0.99	ug/l	82
51) 4-Methyl-2-Pentanone	8.71	43	2358	0.42	ug/l	# 1
60) Dibromochloromethane	9.34	129	3745	1.17	ug/l	# 11
64) Tetrachloroethene	9.34	164	4071	1.18	ug/l	# 82
76) 1,2,3-Trichloropropane	11.14	75	87377	23.19	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	87377	71.78	ug/l	# 9
95) Naphthalene	13.83	128	334	1.17	ug/l	# 69

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004087.D

Acq: 15 Aug 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

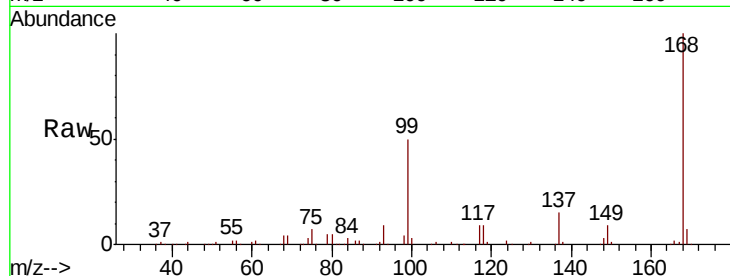
MW-293-SRI3

Tot Ion:168 Resp: 235113

Ion Ratio Lower Upper

168 100

99 50.3 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

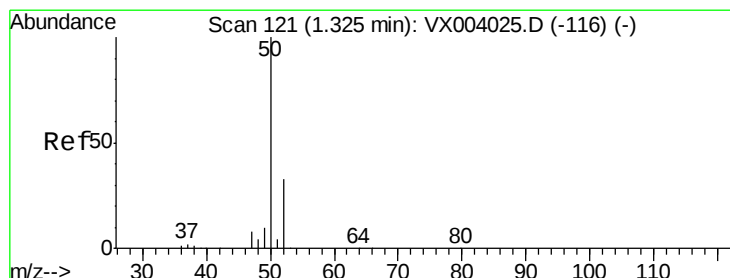
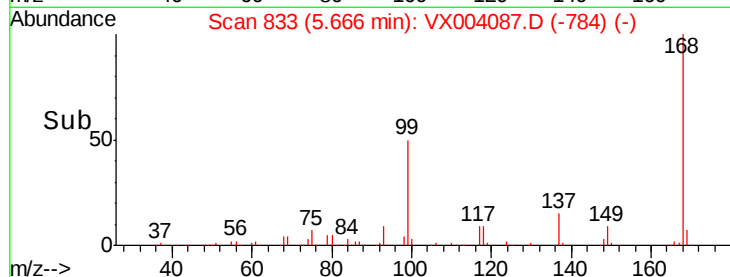
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.25 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004087.D

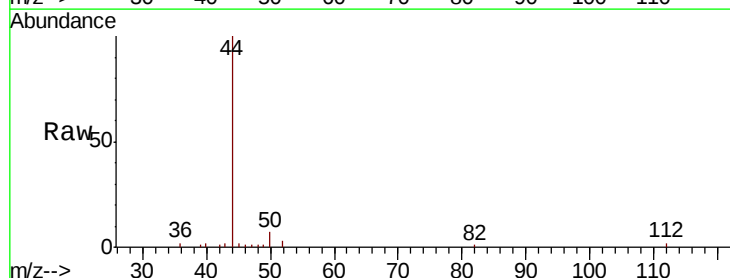
Acq: 15 Aug 2018 21:48

Tgt Ion: 50 Resp: 697

Ion Ratio Lower Upper

50 100

52 36.6 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

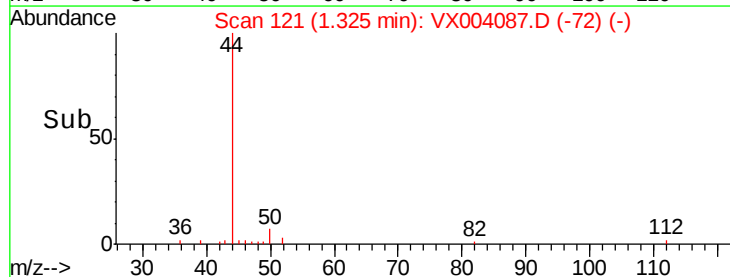
300

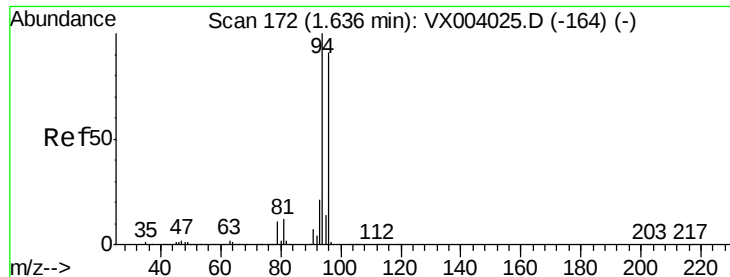
200

100

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.26 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004087.D

Acq: 15 Aug 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

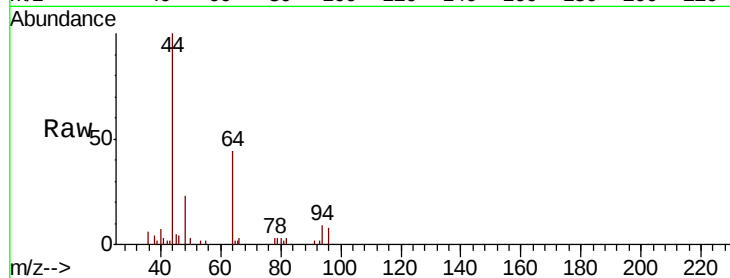
MW-293-SRI3

Tot Ion: 94 Resp: 668

Ion Ratio Lower Upper

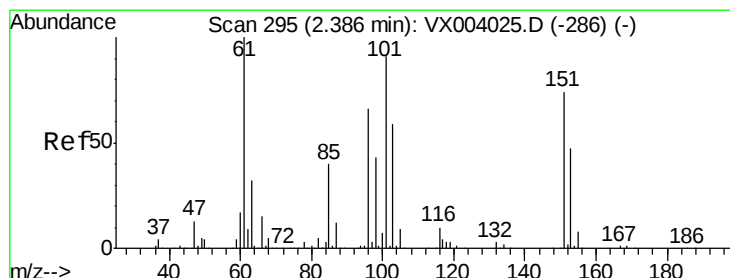
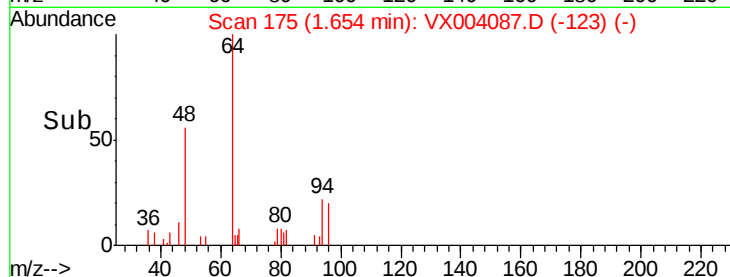
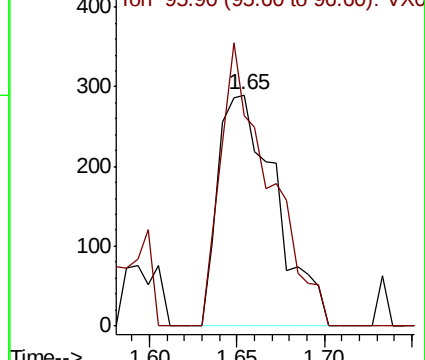
94 100

96 91.0 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.88 ug/l

RT: 2.39 min Scan# 296

Delta R.T. 0.01 min

Lab File: VX004087.D

Acq: 15 Aug 2018 21:48

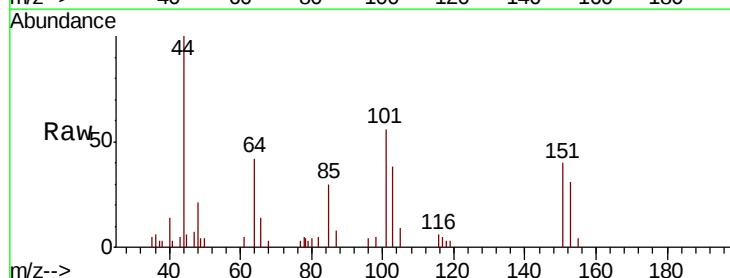
Tgt Ion:101 Resp: 2347

Ion Ratio Lower Upper

101 100

85 42.9 34.2 51.4

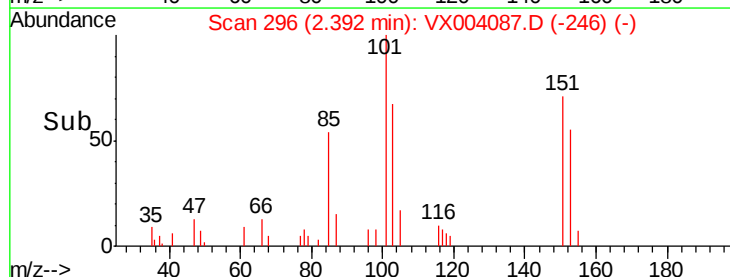
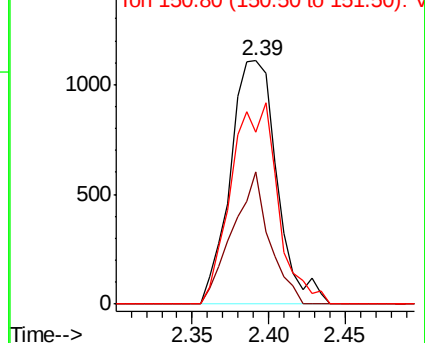
151 82.6 65.0 97.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

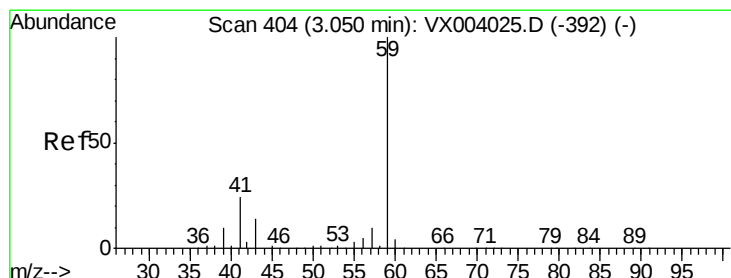
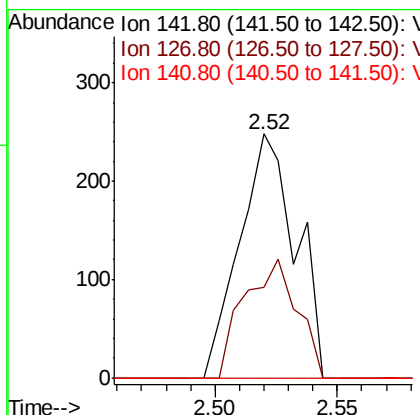
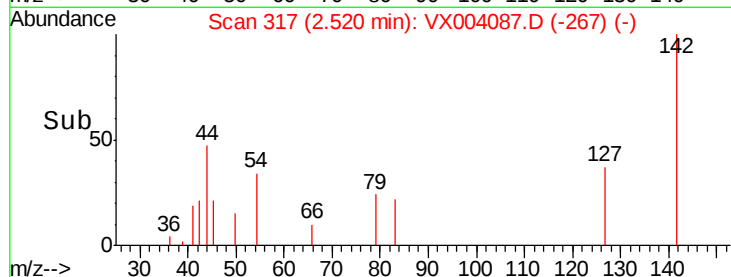
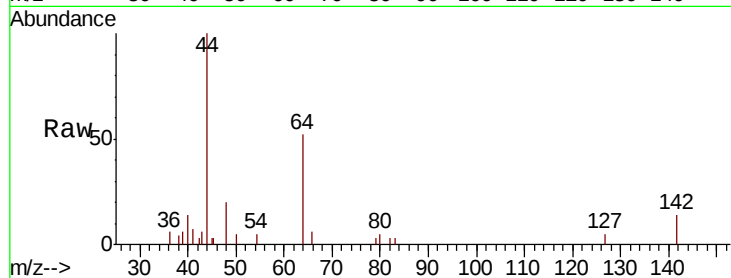




#10
Methyl Iodide
Concen: 5.14 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004087.D
Acq: 15 Aug 2018 21:48

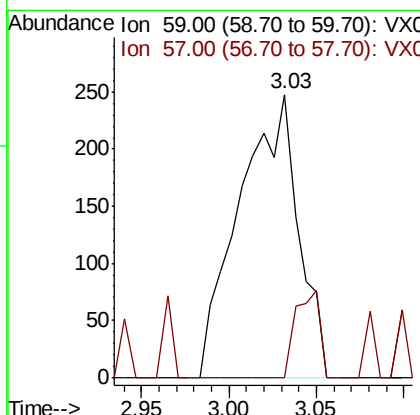
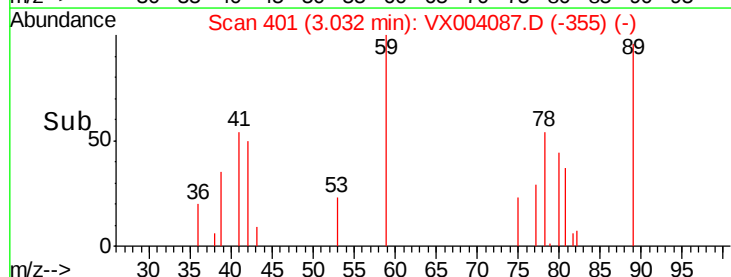
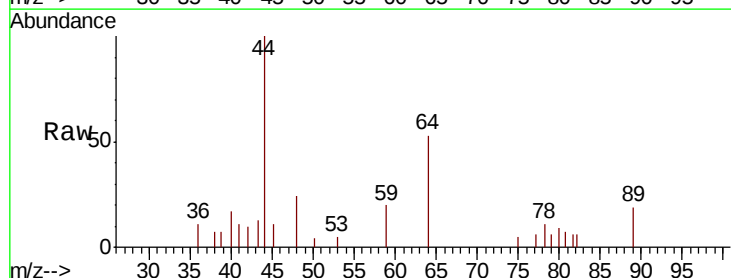
Instrument :
MSVOA_X
ClientSampleId :
MW-293-SRI3

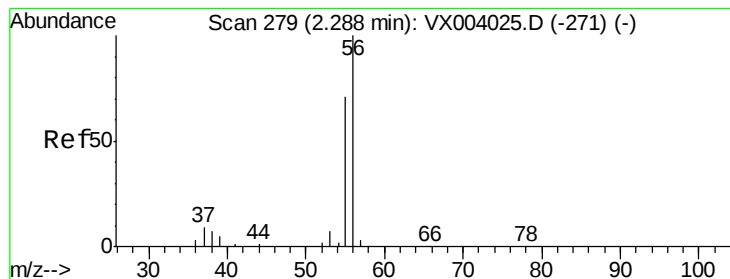
Tot Ion:142 Resp: 398
Ion Ratio Lower Upper
142 100
127 46.0 33.1 49.7
141 0.0 11.1 16.7#



#11
Tert butyl alcohol
Concen: 0.88 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.02 min
Lab File: VX004087.D
Acq: 15 Aug 2018 21:48

Tgt Ion: 59 Resp: 584
Ion Ratio Lower Upper
59 100
57 12.7 8.1 12.1#





#13

Acrolein

Concen: 11.16 ug/l

RT: 2.26 min Scan# 275

Delta R.T. -0.02 min

Lab File: VX004087.D

Acq: 15 Aug 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

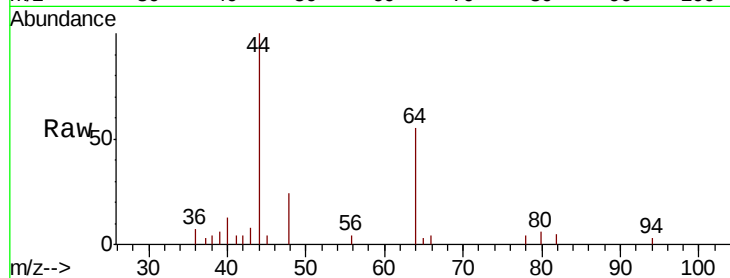
MW-293-SRI3

Tot Ion: 56 Resp: 98

Ion Ratio Lower Upper

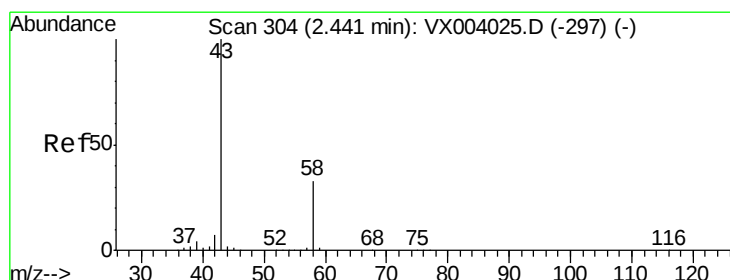
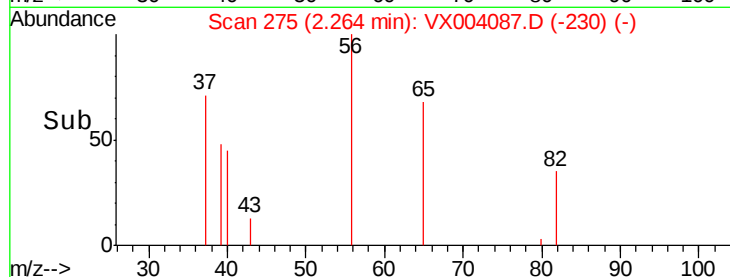
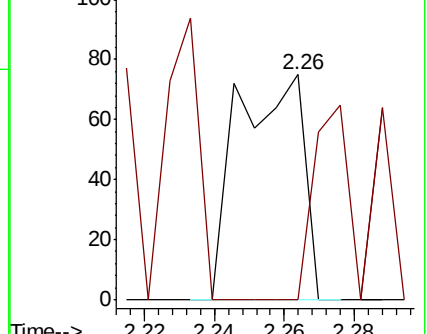
56 100

55 69.4 56.1 84.1



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 1.87 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004087.D

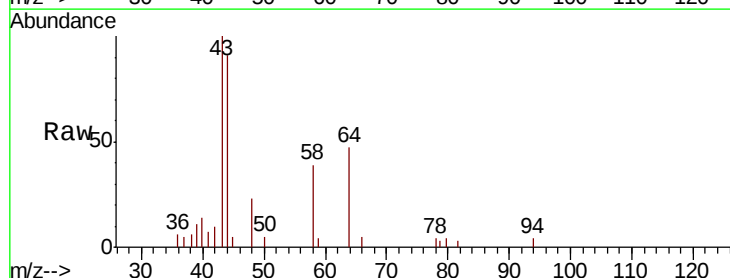
Acq: 15 Aug 2018 21:48

Tgt Ion: 43 Resp: 3226

Ion Ratio Lower Upper

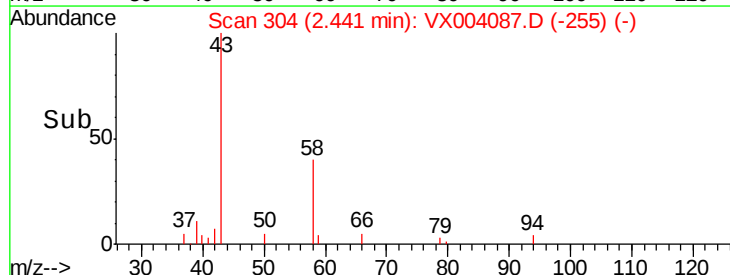
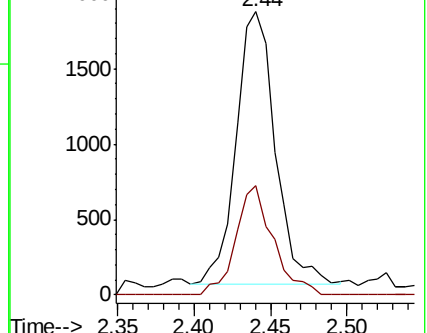
43 100

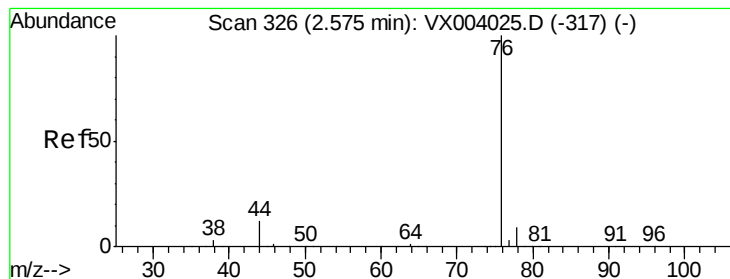
58 40.2 26.4 39.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.30 ua/l

RT: 2.57 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX004087.D

Acq: 15 Aug 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

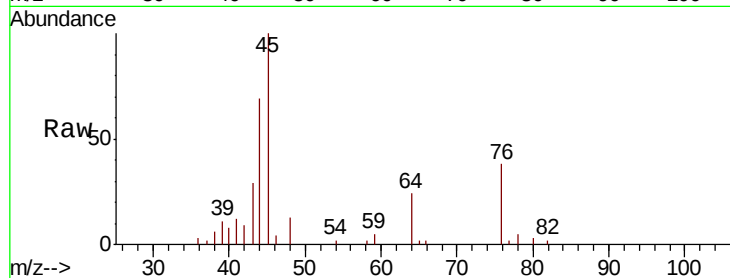
MW-293-SRI3

Tot Ion: 76 Resp: 2124

Ion Ratio Lower Upper

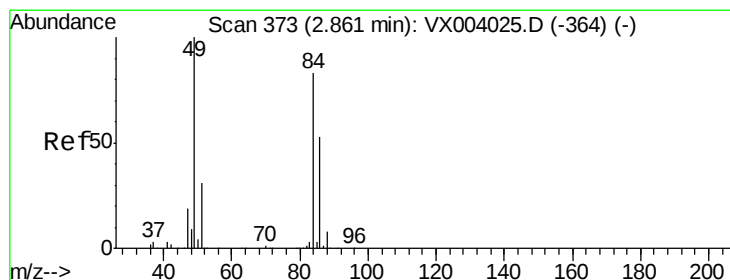
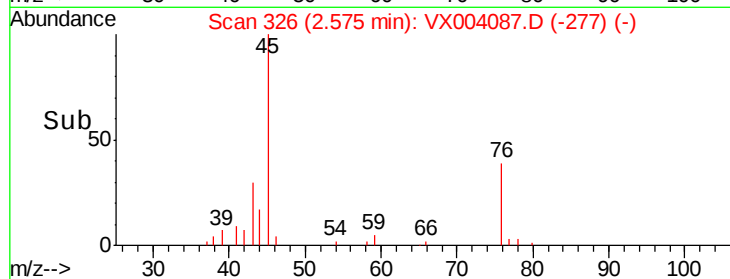
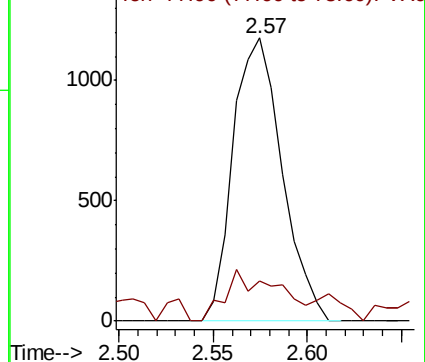
76 100

78 14.4 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX004087.D

Acq: 15 Aug 2018 21:48

Tgt Ion: 84 Resp: 224

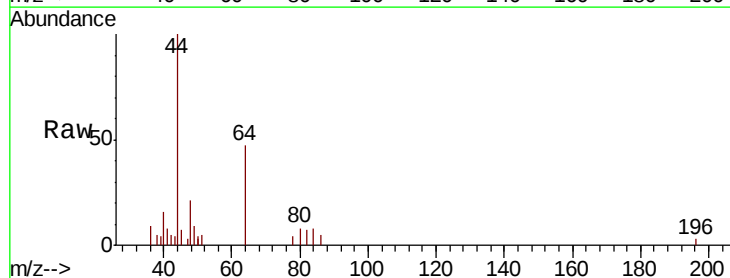
Ion Ratio Lower Upper

84 100

49 113.4 98.9 148.3

51 55.9 29.9 44.9#

86 61.4 51.0 76.6

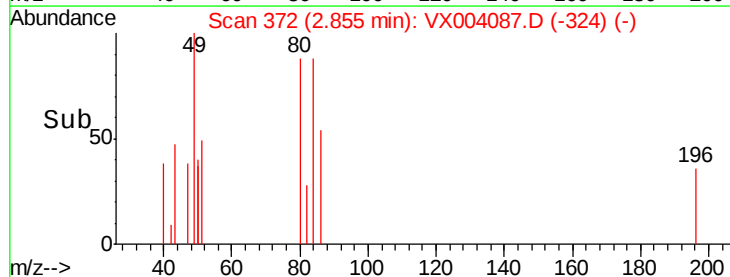
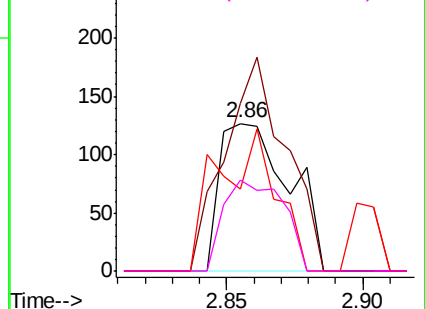


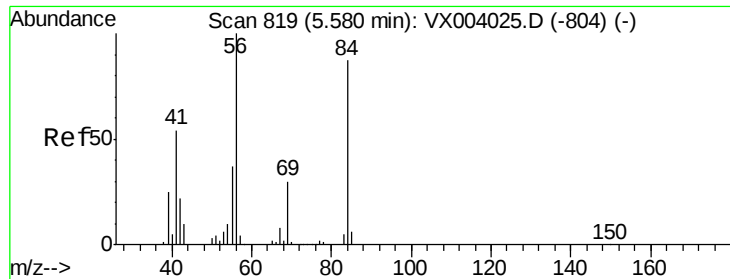
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

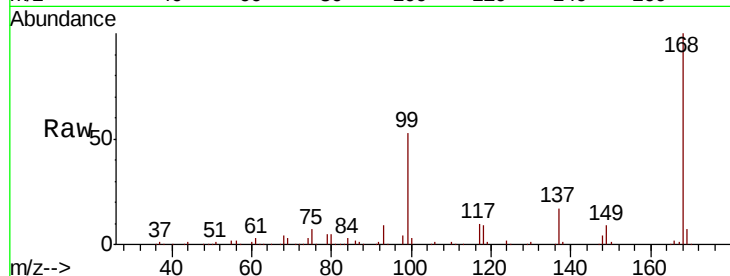




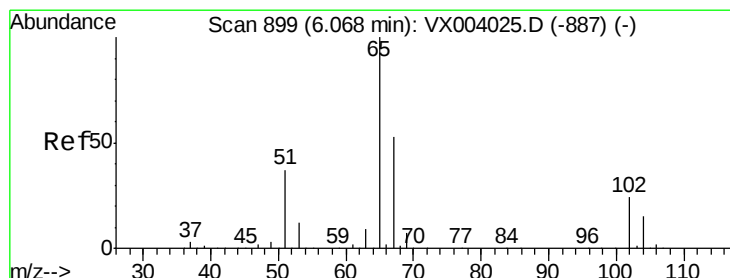
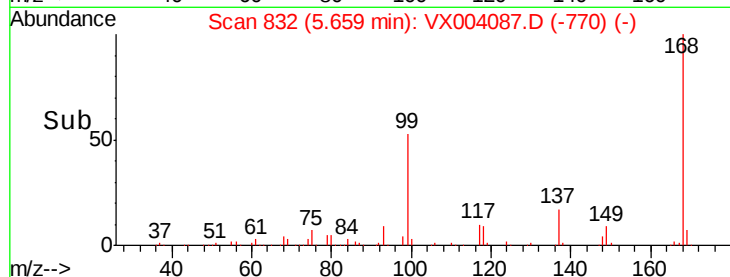
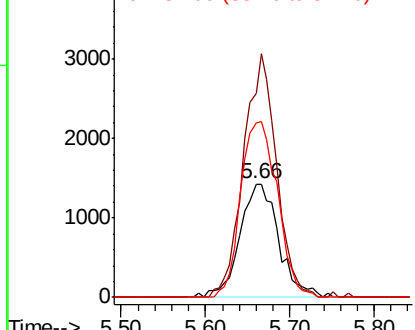
#31
Cyclohexane
Concen: 0.98 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.08 min
Lab File: VX004087.D
Acq: 15 Aug 2018 21:48

Instrument :
MSVOA_X
ClientSampleId :
MW-293-SRI3

Tot Ion: 56 Resp: 4474
Ion Ratio Lower Upper
56 100
69 180.0 24.9 37.3#
84 154.5 71.7 107.5#

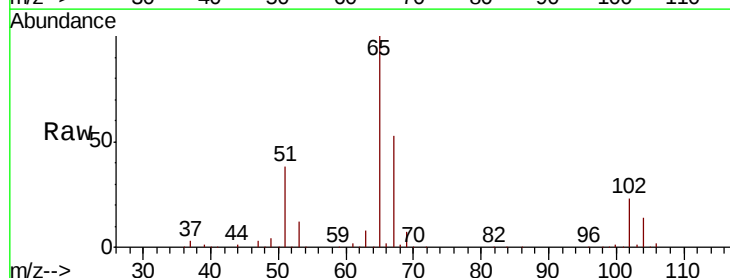


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

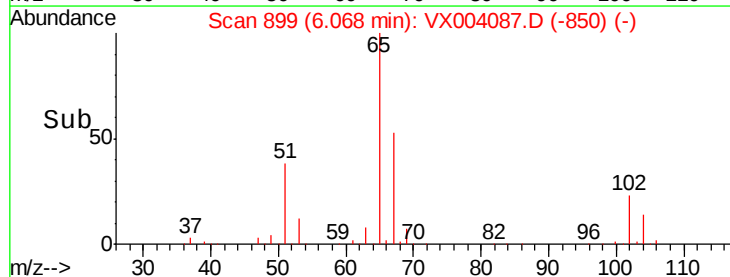
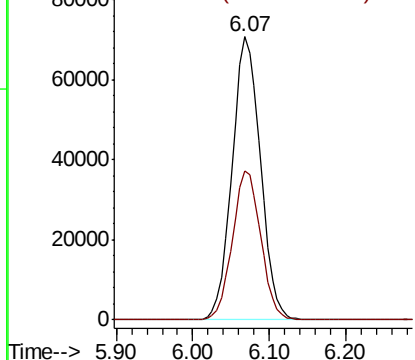


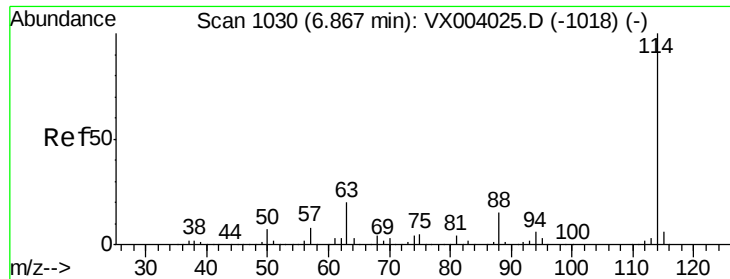
#33
1,2-Dichloroethane-d4
Concen: 54.76 ug/l
RT: 6.07 min Scan# 899
Delta R.T. -0.00 min
Lab File: VX004087.D
Acq: 15 Aug 2018 21:48

Tgt Ion: 65 Resp: 181407
Ion Ratio Lower Upper
65 100
67 52.6 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

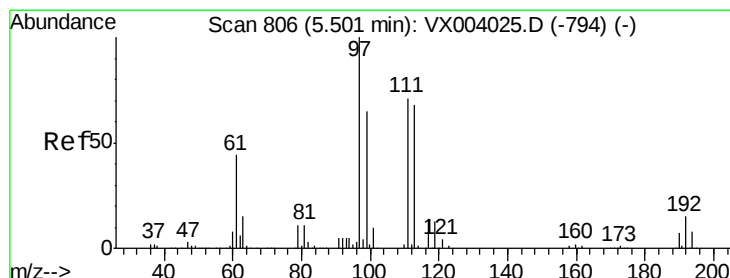
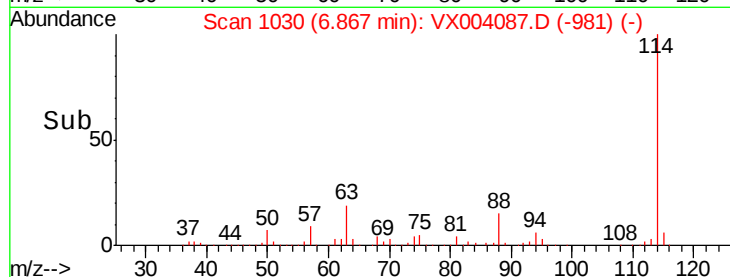
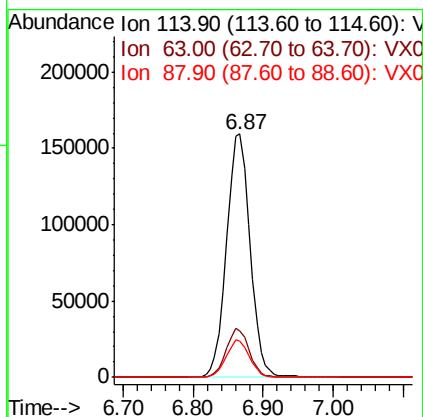
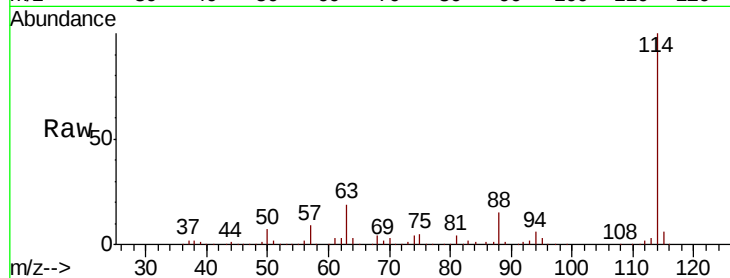




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX004087.D
 Acq: 15 Aug 2018 21:48

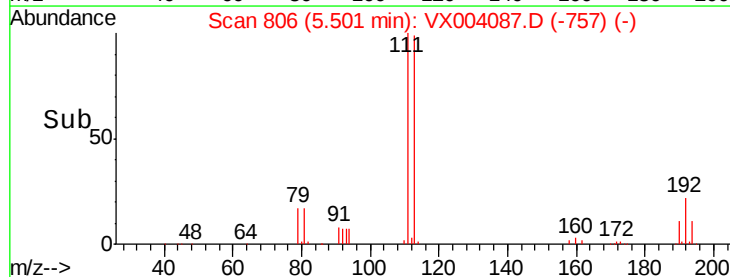
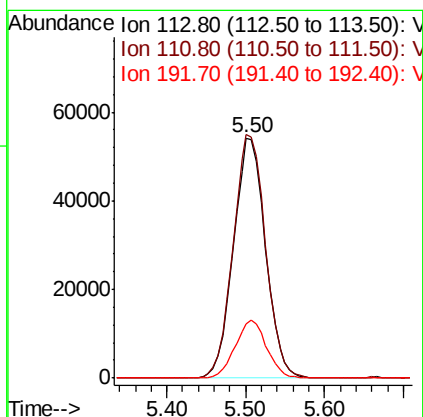
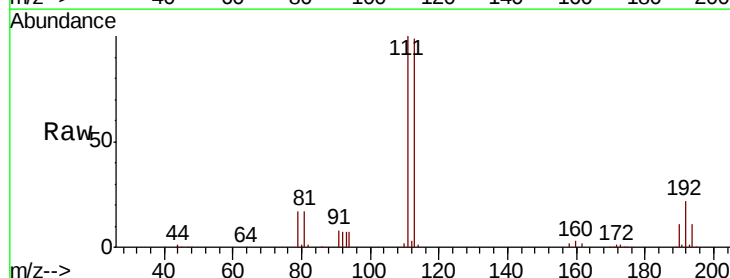
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-293-SRI3

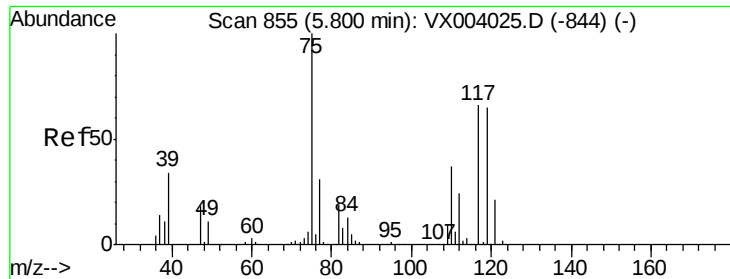
Tot Ion:114 Resp: 374001
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.0
 88 15.0 0.0 32.0



#35
 Dibromofluoromethane
 Concen: 54.69 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004087.D
 Acq: 15 Aug 2018 21:48

Tgt Ion:113 Resp: 153074
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.0 123.0
 192 23.6 19.0 28.4





#36

1,1-Dichloropropene

Concen: 3.81 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX004087.D

Acq: 15 Aug 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

MW-293-SRI3

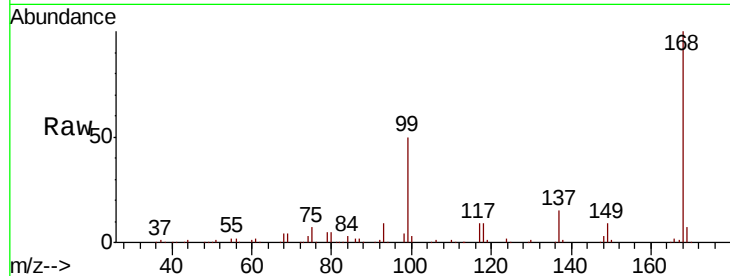
Tot Ion: 75 Resp: 16195

Ion Ratio Lower Upper

75 100

110 9.7 18.2 54.6#

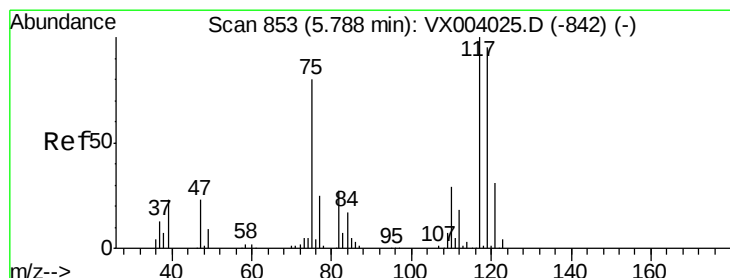
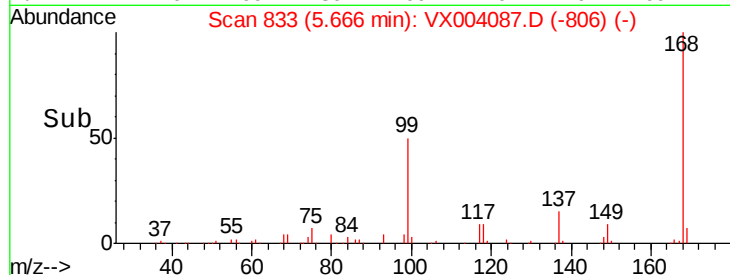
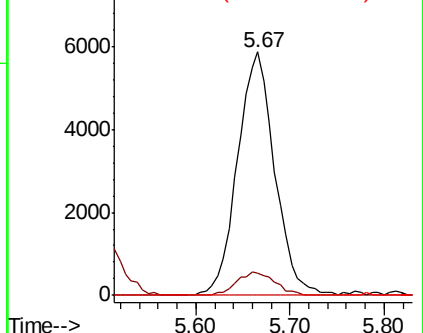
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.11 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004087.D

Acq: 15 Aug 2018 21:48

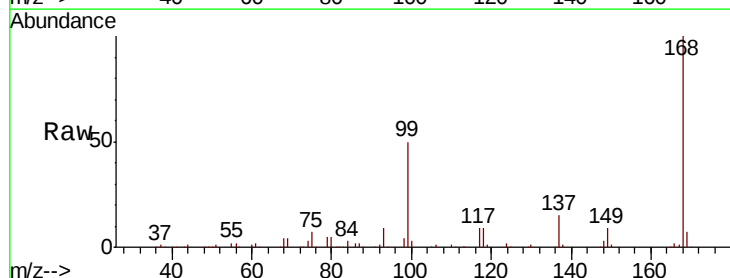
Tgt Ion: 117 Resp: 21127

Ion Ratio Lower Upper

117 100

119 5.9 79.5 119.3#

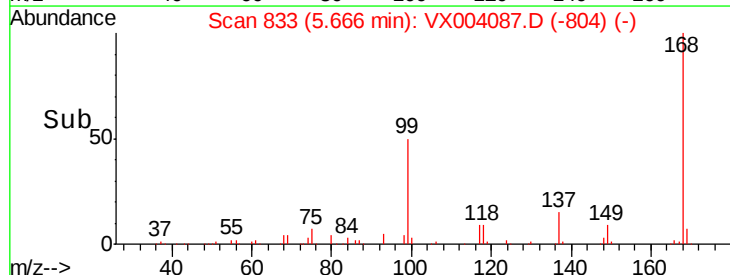
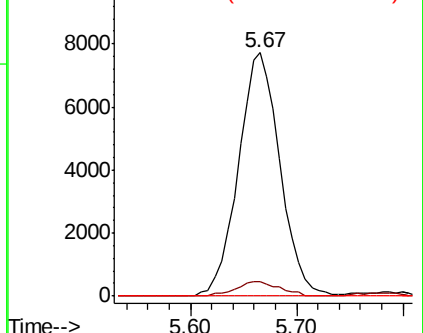
121 0.0 25.0 37.4#

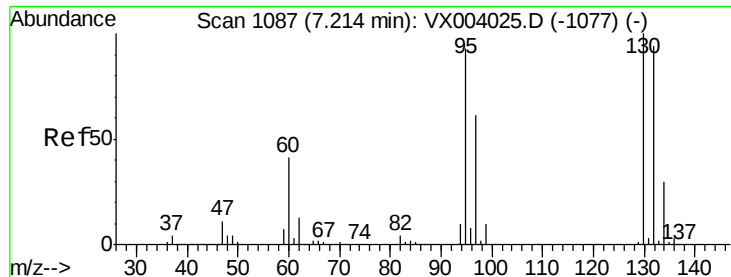


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.99 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX004087.D

Acq: 15 Aug 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

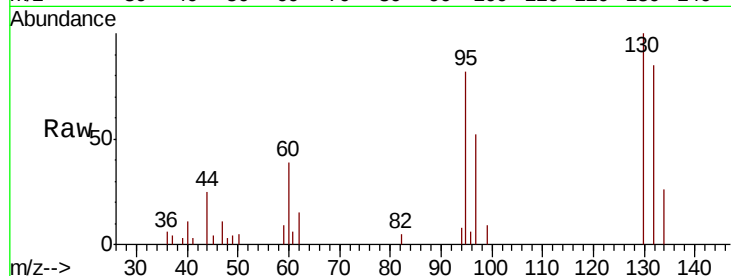
MW-293-SRI3

Tot Ion:130 Resp: 3418

Ion Ratio Lower Upper

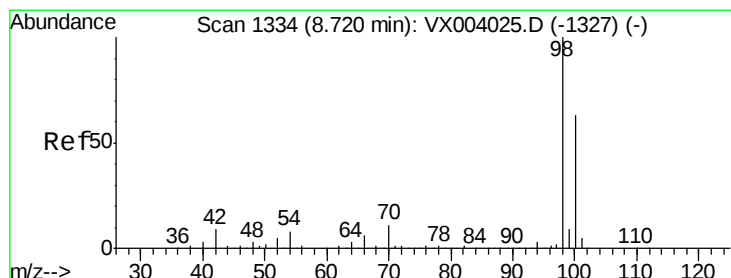
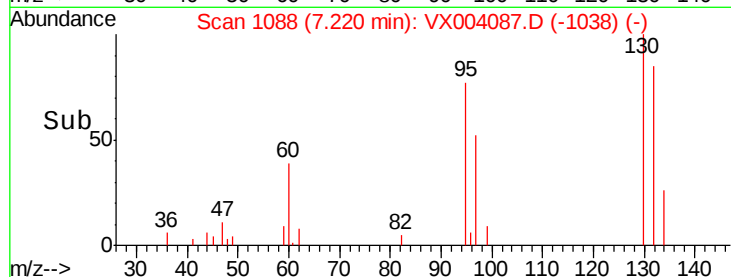
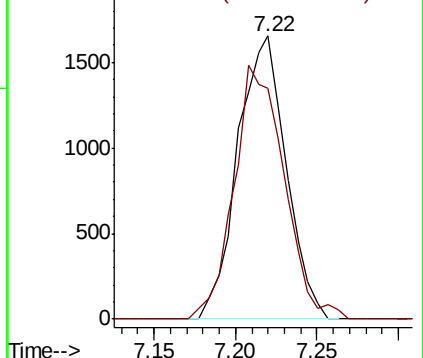
130 100

95 81.8 0.0 199.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 47.68 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004087.D

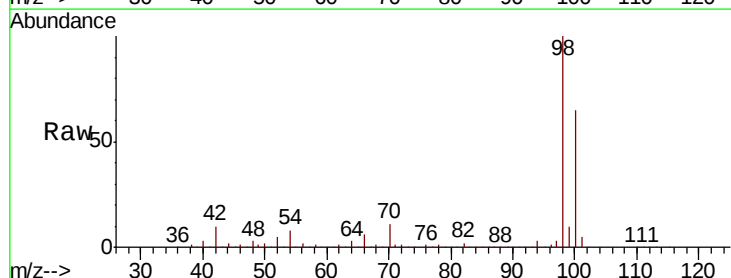
Acq: 15 Aug 2018 21:48

Tgt Ion: 98 Resp: 541161

Ion Ratio Lower Upper

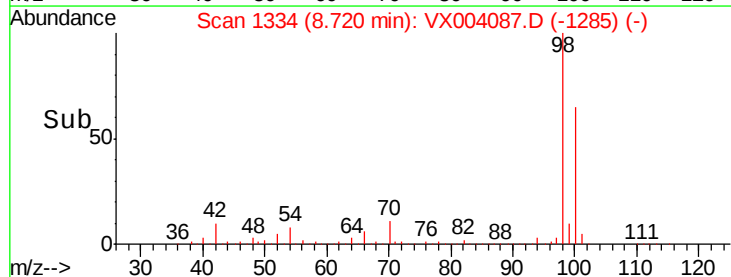
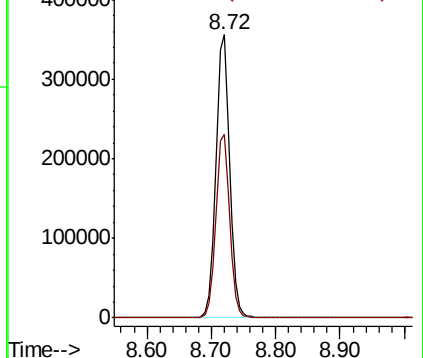
98 100

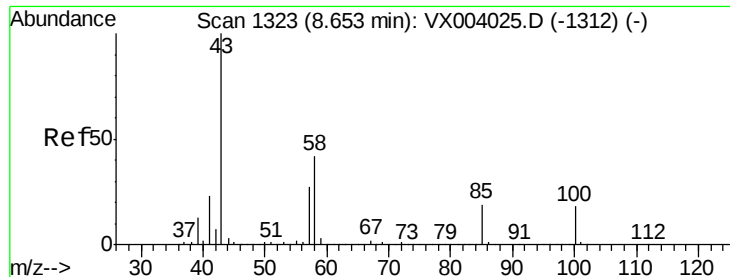
100 65.1 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.42 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. 0.06 min

Lab File: VX004087.D

Acq: 15 Aug 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

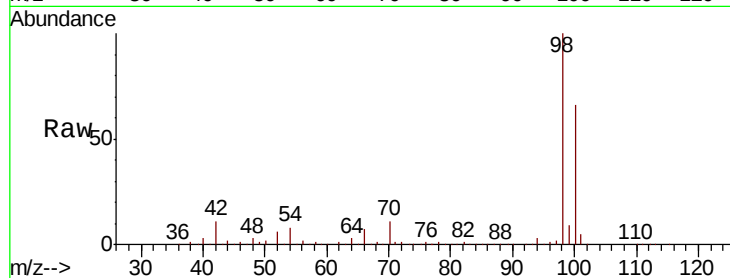
MW-293-SRI3

Tot Ion: 43 Resp: 2358

Ion Ratio Lower Upper

43 100

58 179.9 33.0 49.6#



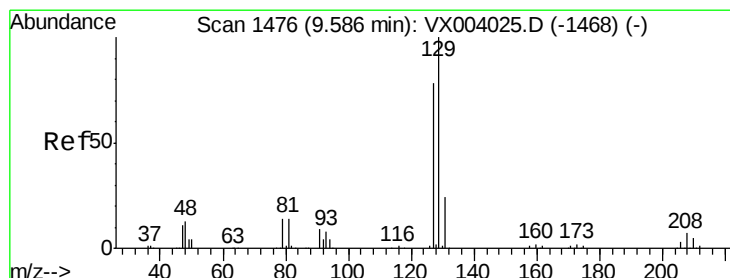
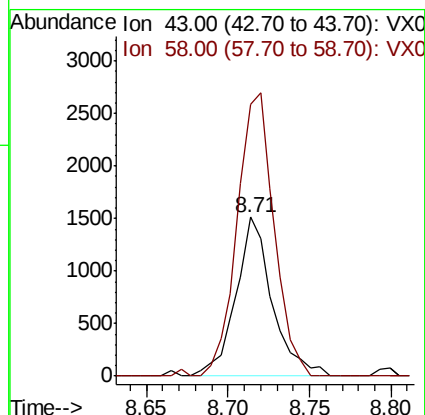
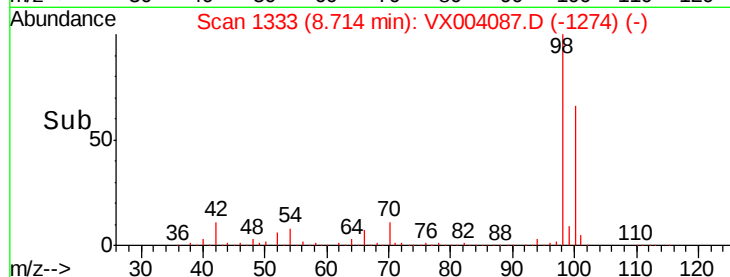
Abundance Ion 43.00 (42.70 to 43.70): VX004025.D (-1312) (-)

Ion 58.00 (57.70 to 58.70): VX004025.D (-1312) (-)

8.71

8.75

8.80



#60

Dibromochloromethane

Concen: 1.17 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX004087.D

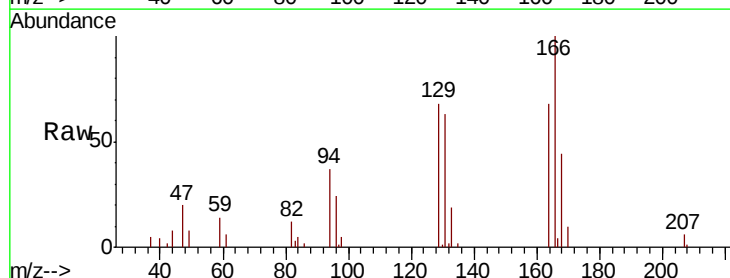
Acq: 15 Aug 2018 21:48

Tgt Ion: 129 Resp: 3745

Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.3#



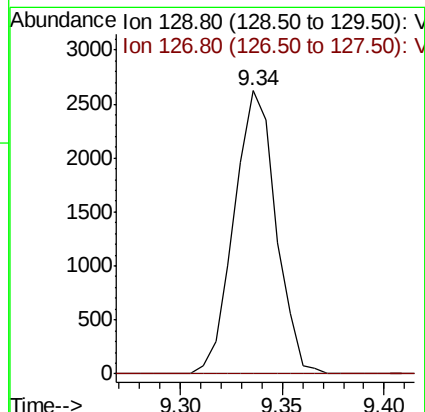
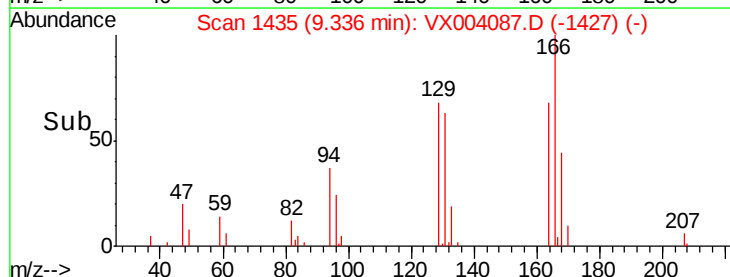
Abundance Ion 128.80 (128.50 to 129.50): VX004025.D (-1468) (-)

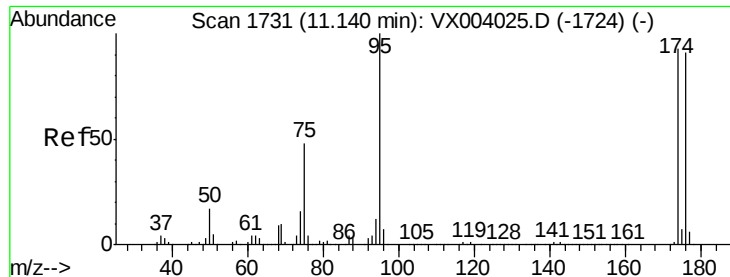
Ion 126.80 (126.50 to 127.50): VX004025.D (-1468) (-)

9.34

9.35

9.40

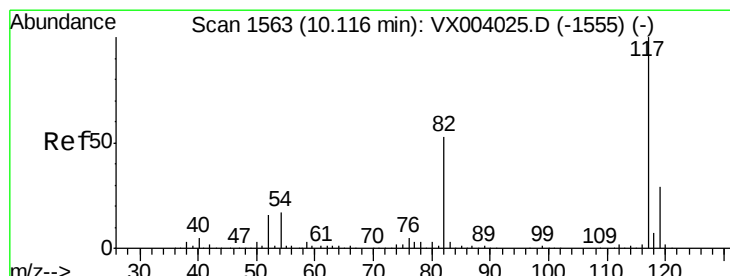
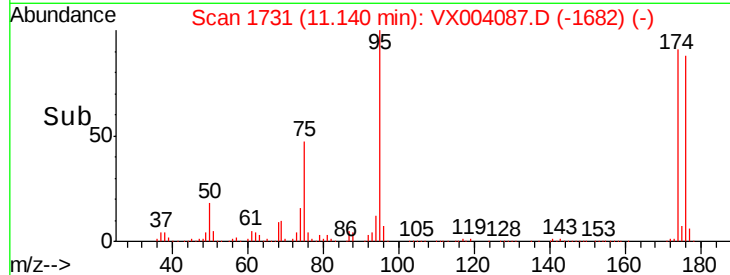
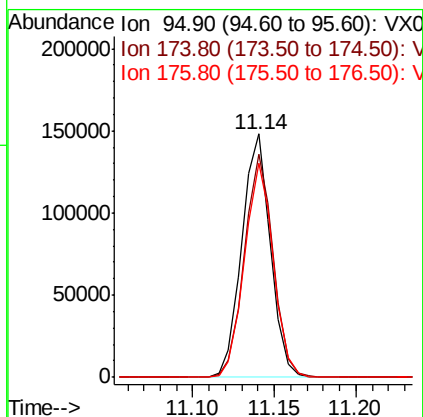
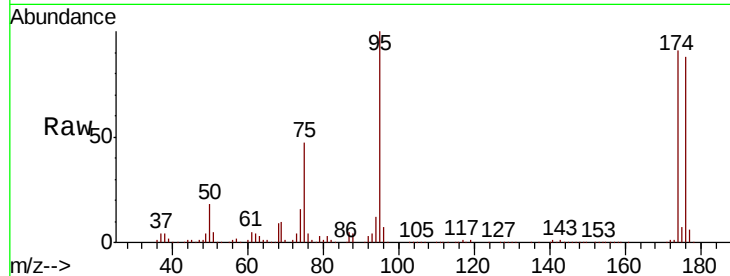




#62
4-Bromofluorobenzene
Concen: 44.04 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX004087.D
Acq: 15 Aug 2018 21:48

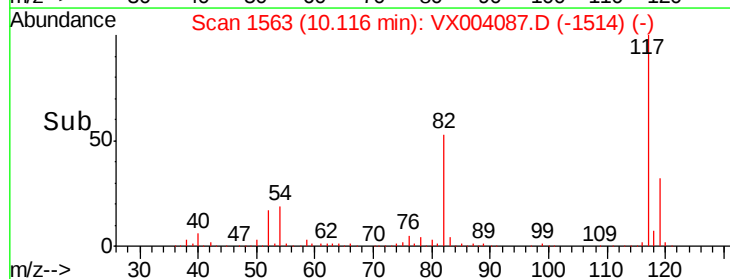
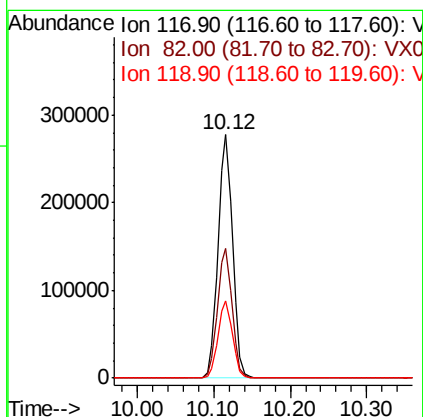
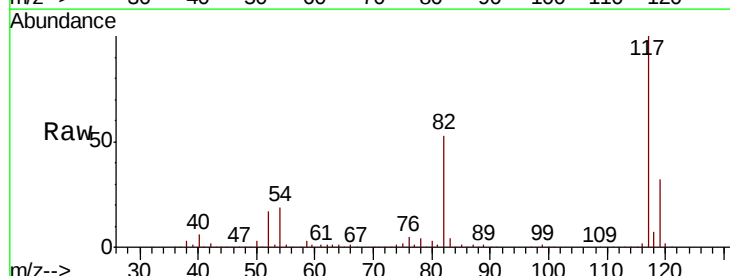
Instrument :
MSVOA_X
ClientSampleId :
MW-293-SRI3

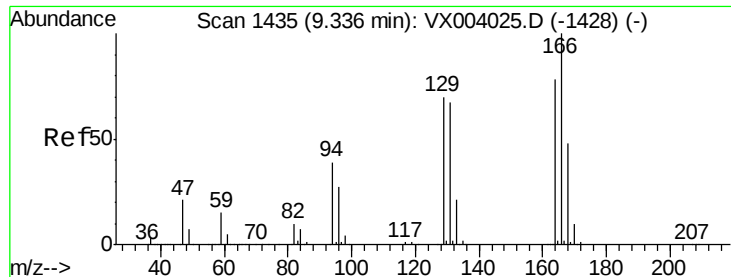
Tot Ion	Ratio	Lower	Upper
95	100		
174	92.4	0.0	182.8
176	88.9	0.0	179.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004087.D
Acq: 15 Aug 2018 21:48

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.4	45.4	68.0
119	31.7	26.6	40.0

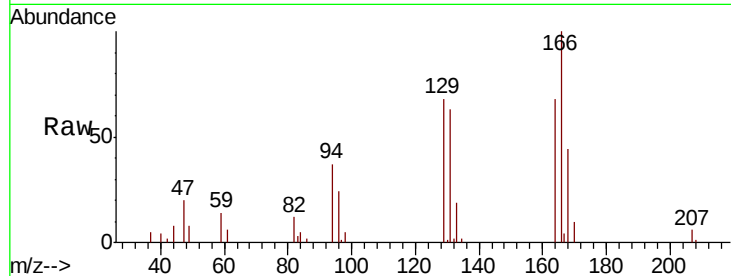




#64
Tetrachloroethene
Concen: 1.18 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.00 min
Lab File: VX004087.D
Acq: 15 Aug 2018 21:48

Instrument :
MSVOA_X
ClientSampleId :
MW-293-SRI3

Tot Ion	Ratio	Lower	Upper
164	100		
166	147.2	98.0	147.0#
129	99.9	64.3	96.5#
131	92.0	66.8	100.2



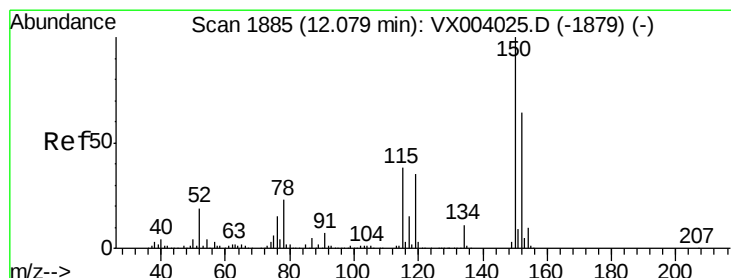
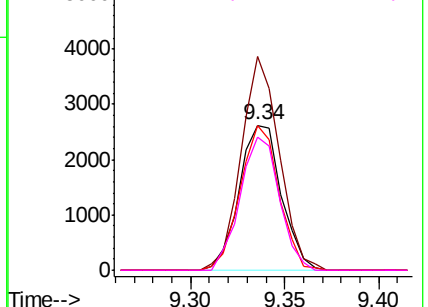
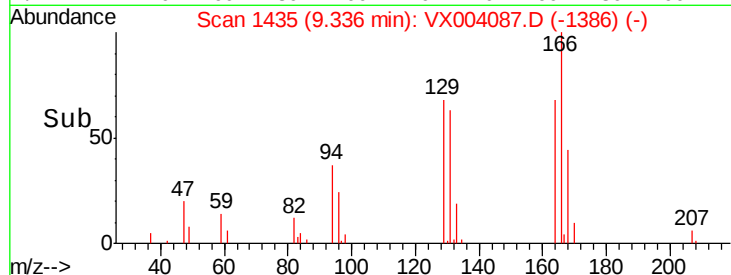
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

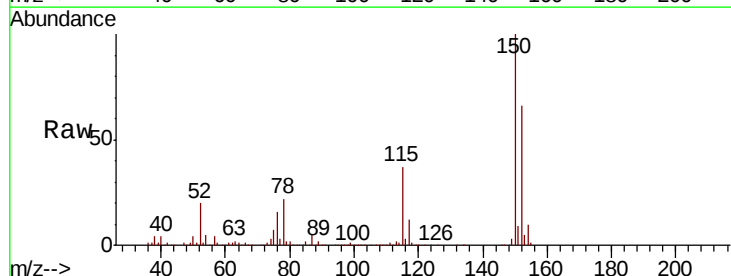
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX004087.D
Acq: 15 Aug 2018 21:48

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.3	39.1	117.3
150	157.2	0.0	349.2

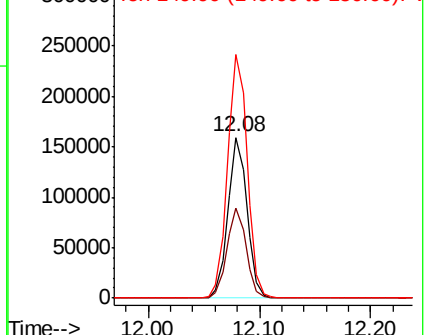
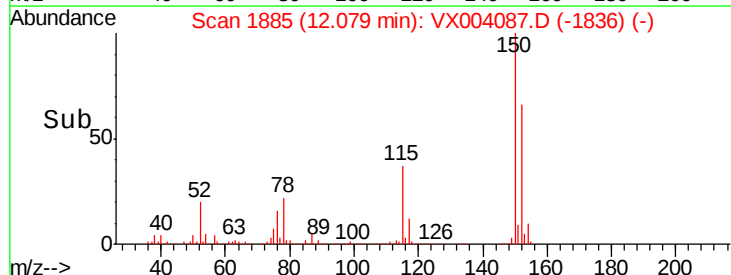


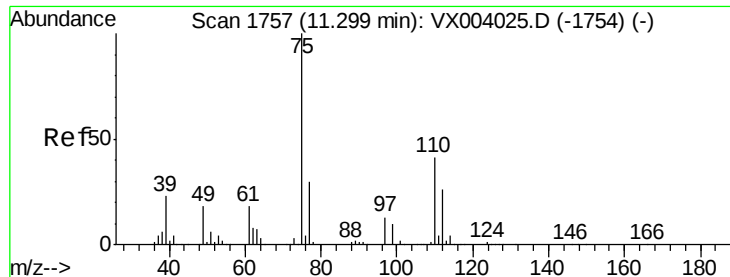
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.19 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004087.D

Acq: 15 Aug 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

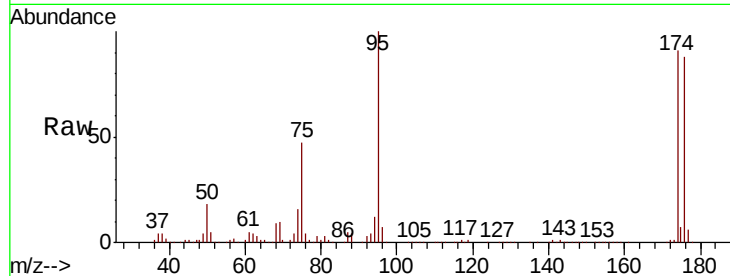
MW-293-SRI3

Tot Ion: 75 Resp: 87377

Ion Ratio Lower Upper

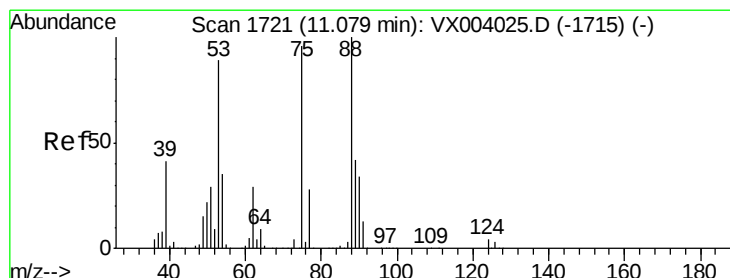
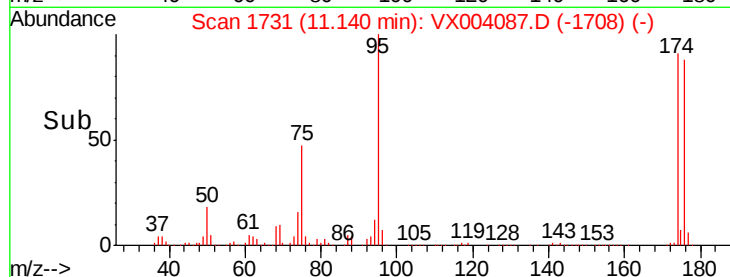
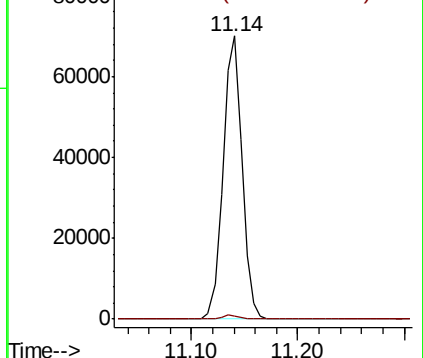
75 100

77 1.4 20.8 62.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 71.78 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004087.D

Acq: 15 Aug 2018 21:48

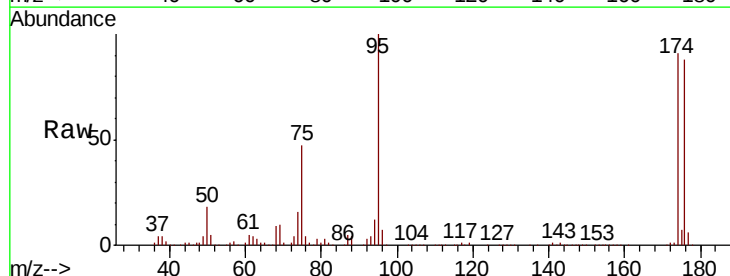
Tgt Ion: 75 Resp: 87377

Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

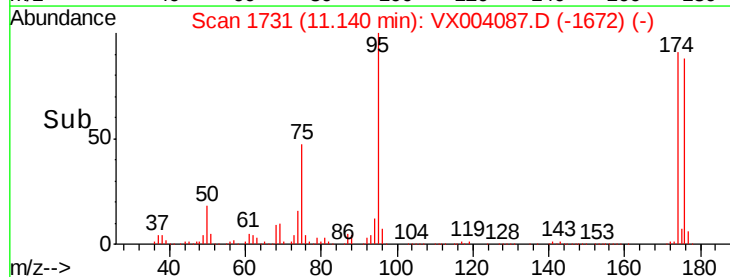
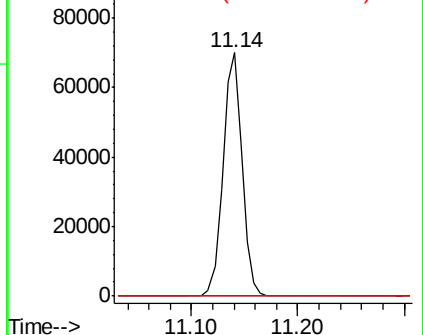
89 0.0 37.8 56.8#

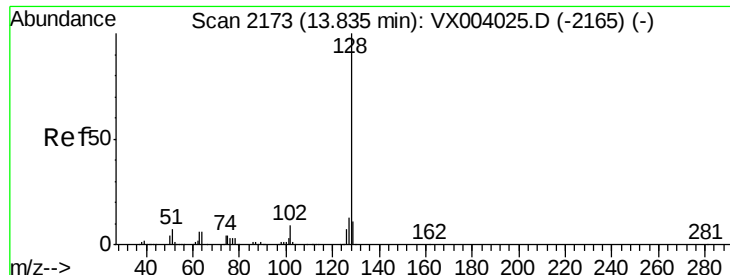


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 1.17 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX004087.D

Acq: 15 Aug 2018 21:48

Instrument :

MSVOA_X

ClientSampleId :

MW-293-SRI3

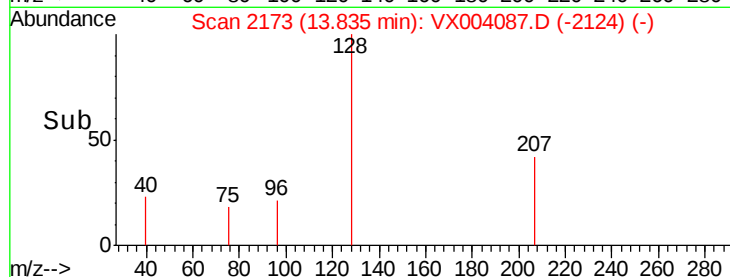
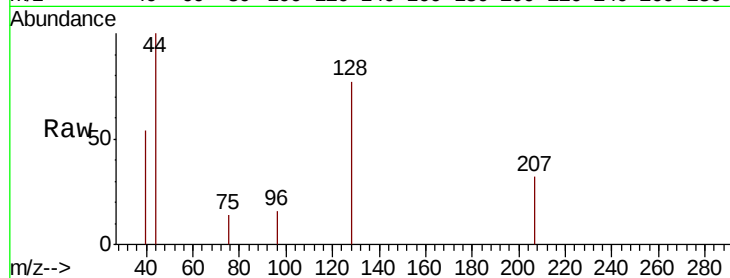
Tot Ion:128 Resp: 334

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

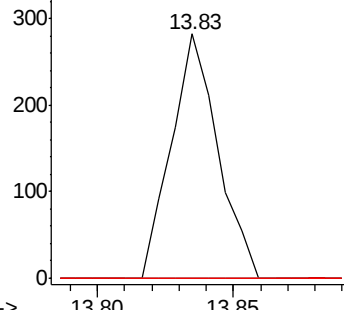
129 0.0 8.8 13.2#



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



Time-->