

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061418\
 Data File : VX002573.D
 Acq On : 15 Jun 2018 01:37
 Operator : JC/MD
 Sample : PB110227ZHE#11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 15 03:23:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	229629	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	332432	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	313510	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	182908	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	159065	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
35) Dibromofluoromethane	5.51	113	119318	45.64	ug/l	0.00
Spiked Amount			Recovery	=	91.28%	
50) Toluene-d8	8.72	98	480754	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	
62) 4-Bromofluorobenzene	11.14	95	170942	44.24	ug/l	0.00
Spiked Amount			Recovery	=	88.48%	

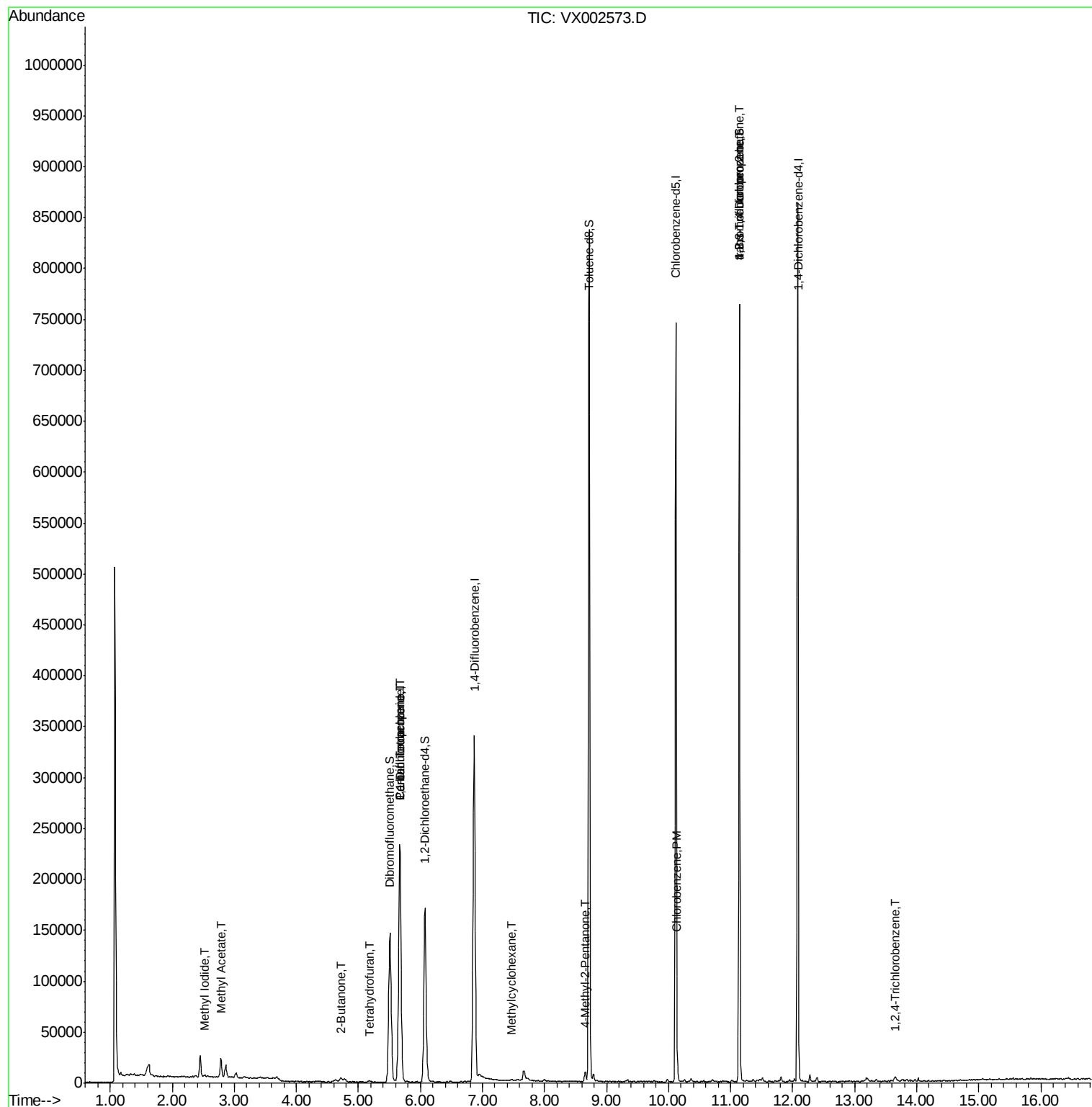
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	440	Below Cal	#	64
5) Bromomethane	1.65	94	1728	Below Cal	#	79
8) Diethyl Ether	2.19	74	76	Below Cal	#	1
10) Methyl Iodide	2.52	142	1791	0.51	ug/l	98
11) Tert butyl alcohol	3.03	59	2750	Below Cal	#	78
13) Acrolein	2.29	56	157	Below Cal		89
15) Acrylonitrile	3.16	53	437	Below Cal	#	60
16) Acetone	2.45	43	24563	Below Cal		97
18) Methyl Acetate	2.78	43	23084	4.56	ug/l	96
19) Methyl tert-butyl Ether	3.20	73	132	Below Cal	#	54
20) Methylene Chloride	2.86	84	6006	Below Cal		92
22) Diisopropyl ether	3.87	45	354	Below Cal	#	45
25) 2-Butanone	4.71	43	7025	3.12	ug/l	90
28) Bromochloromethane	5.01	49	44	Below Cal	#	13
29) Tetrahydrofuran	5.17	42	1318	0.91	ug/l	93
36) 1,1-Dichloropropene	5.67	75	16268	4.65	ug/l	51
38) Carbon Tetrachloride	5.67	117	21122	5.78	ug/l	17
39) Methylcyclohexane	7.46	83	513	0.38	ug/l	89
51) 4-Methyl-2-Pentanone	8.65	43	5664	1.27	ug/l	93
65) Chlorobenzene	10.14	112	3253	0.42	ug/l	100
76) 1,2,3-Trichloropropane	11.14	75	93677	23.34	ug/l	32
81) trans-1,4-Dichloro-2-buten	11.14	75	93677	81.82	ug/l	7
93) 1,2,4-Trichlorobenzene	13.65	180	963	0.21	ug/l	88

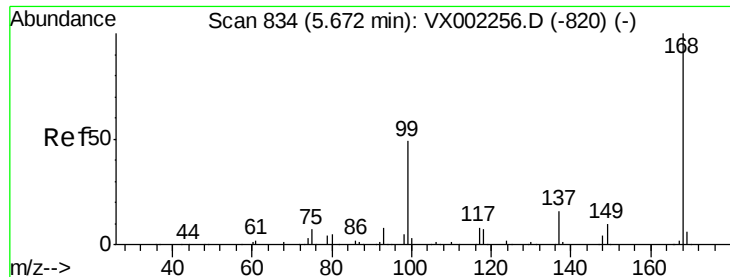
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX061418\
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ClientSampleId :

Quant Time: Jun 15 03:23:00 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

Instrument :

MSVOA_X

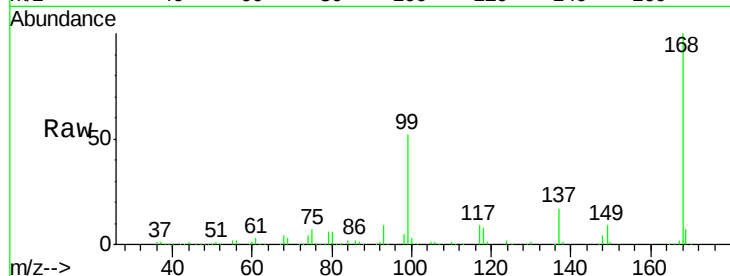
ClientSampleId :

Tot Ion:168 Resp: 229629

Ion Ratio Lower Upper

168 100

99 52.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

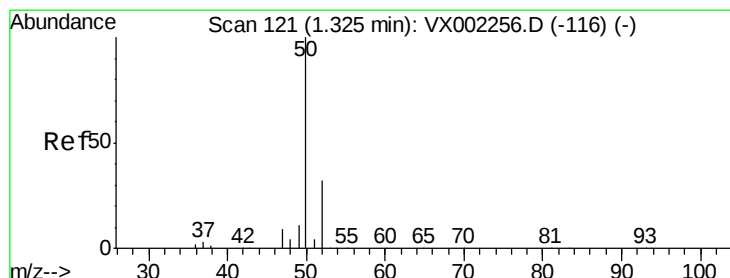
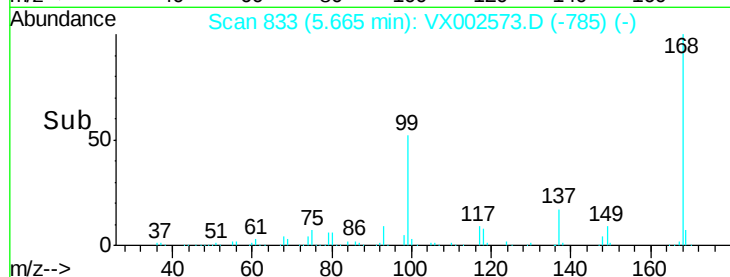
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002573.D

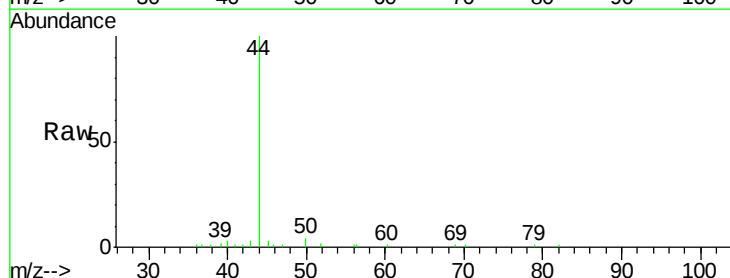
Acq: 15 Jun 2018 01:37

Tgt Ion: 50 Resp: 440

Ion Ratio Lower Upper

50 100

52 52.1 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

250

200

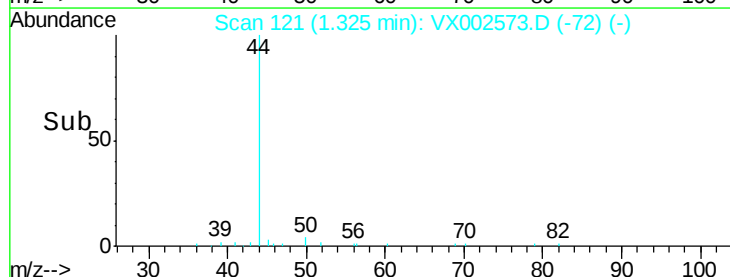
150

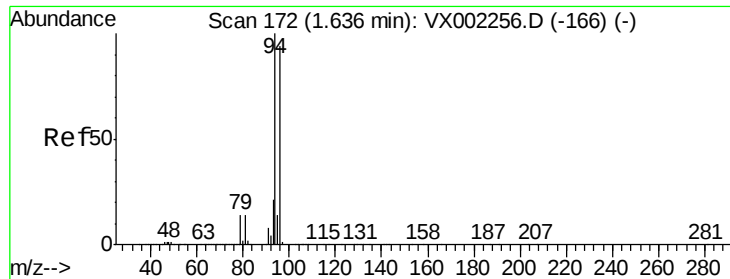
100

50

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

Instrument :

MSVOA_X

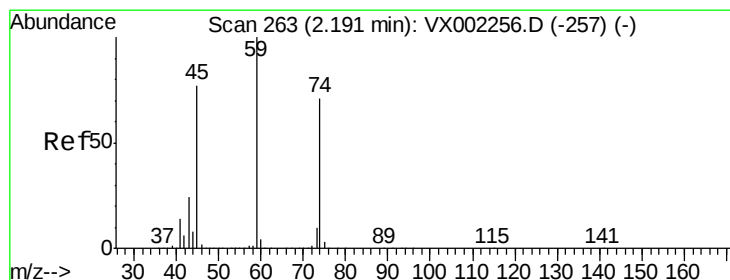
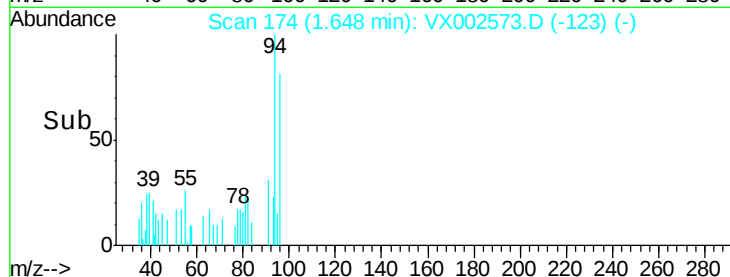
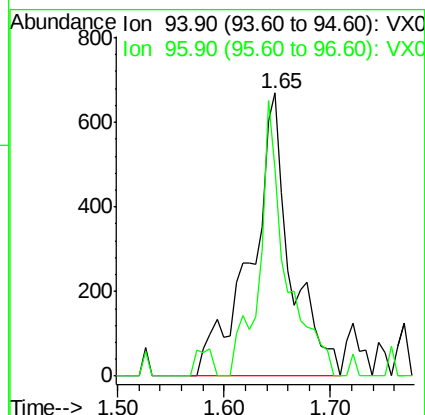
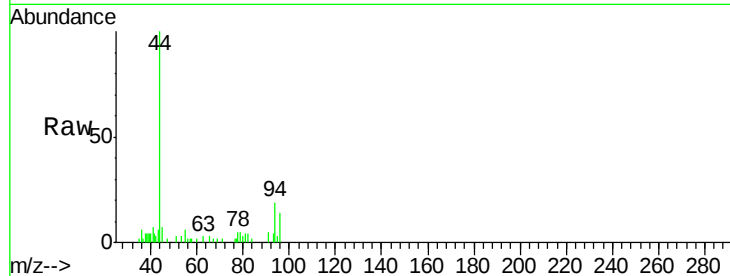
ClientSampleId :

Tot Ion: 94 Resp: 1728

Ion Ratio Lower Upper

94 100

96 73.2 74.9 112.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002573.D

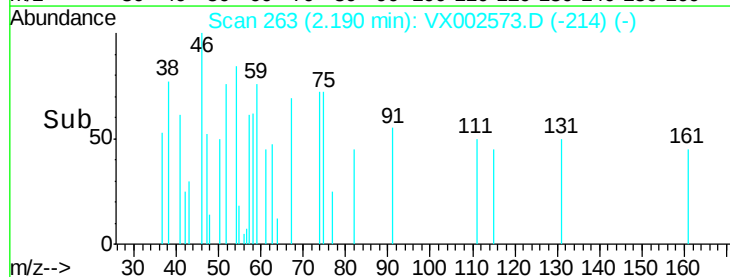
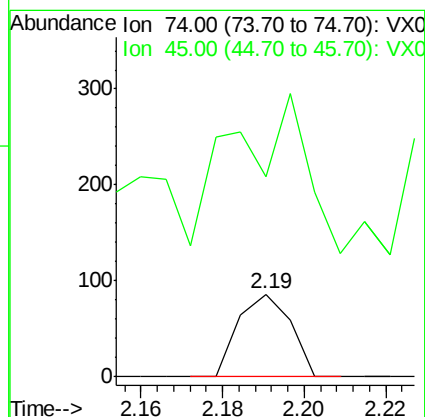
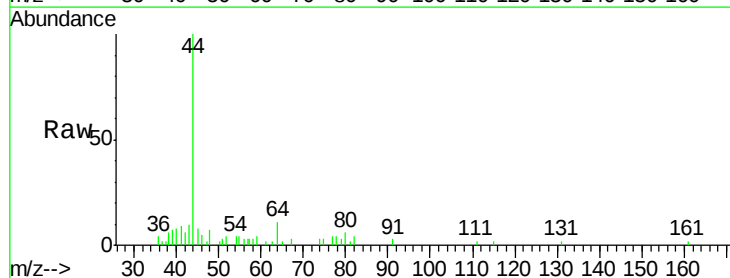
Acq: 15 Jun 2018 01:37

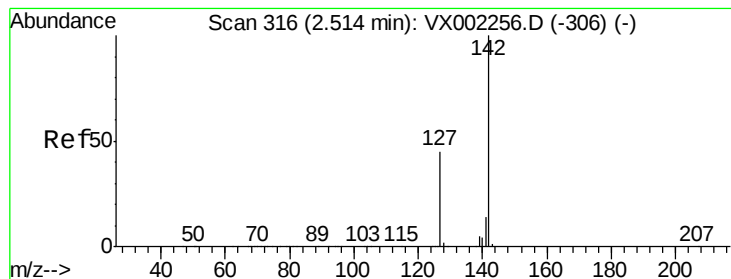
Tgt Ion: 74 Resp: 76

Ion Ratio Lower Upper

74 100

45 267.1 53.1 159.4#





#10

Methvl Iodide

Concen: 0.51 ua/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

Instrument :
MSVOA_X
ClientSampleId :

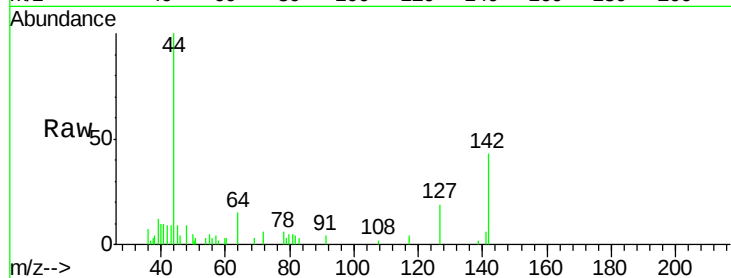
Tot Ion:142 Resp: 1791

Ion Ratio Lower Upper

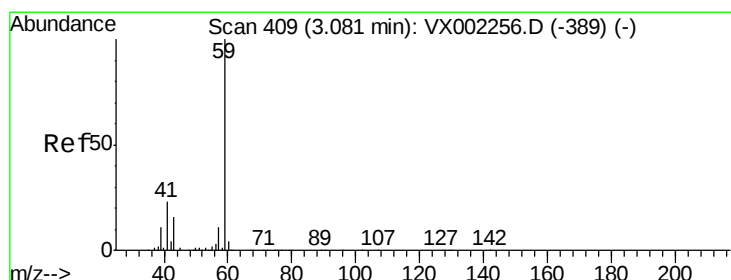
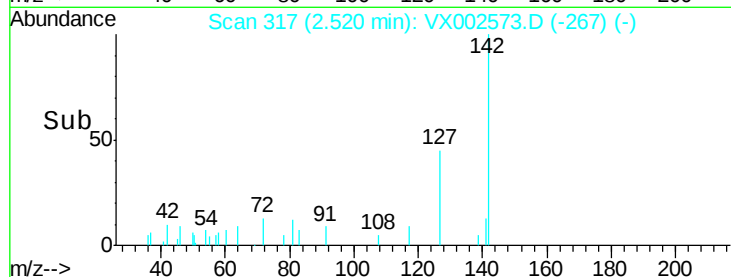
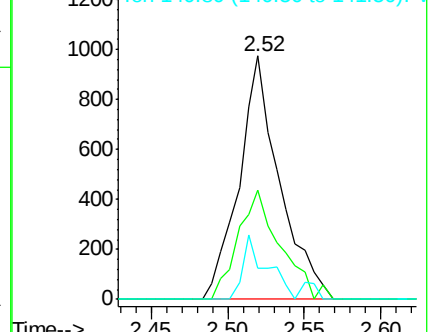
142 100

127 46.7 36.6 55.0

141 15.6 11.3 16.9



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.03 min Scan# 400

Delta R.T. -0.05 min

Lab File: VX002573.D

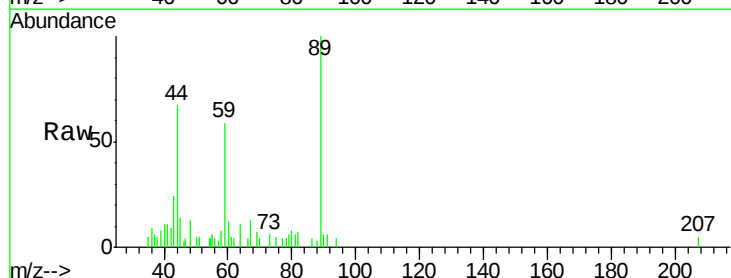
Acq: 15 Jun 2018 01:37

Tgt Ion: 59 Resp: 2750

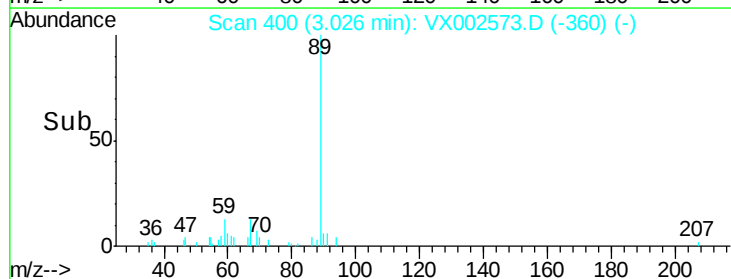
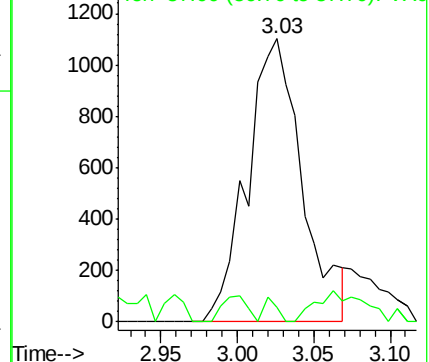
Ion Ratio Lower Upper

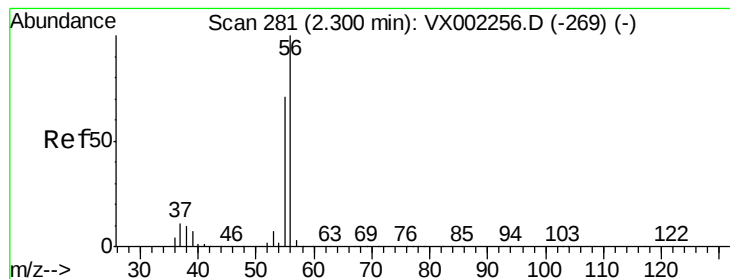
59 100

57 2.1 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

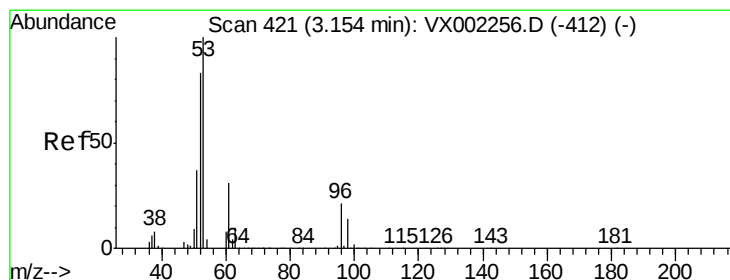
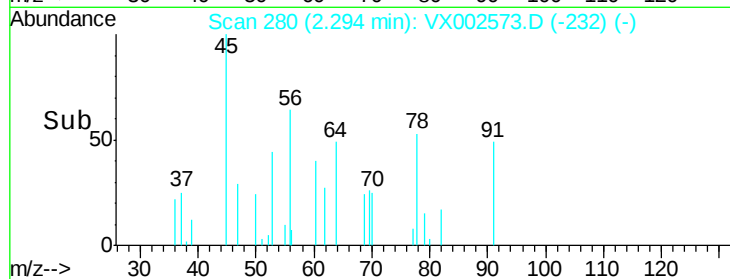
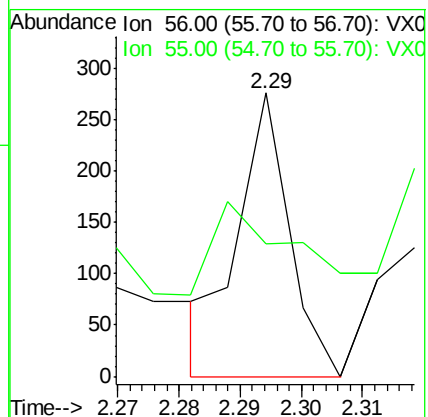
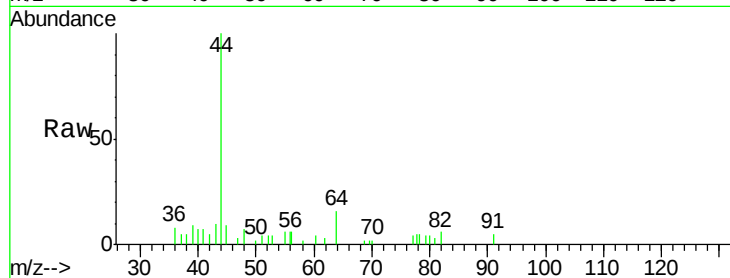
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 157

Ion Ratio Lower Upper

56 100

55 61.8 57.0 85.4



#15

Acrylonitrile

Concen: Below Cal

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

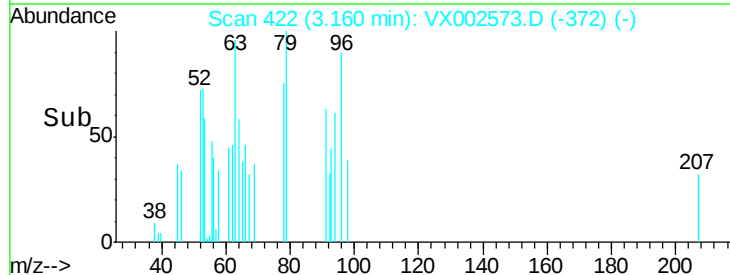
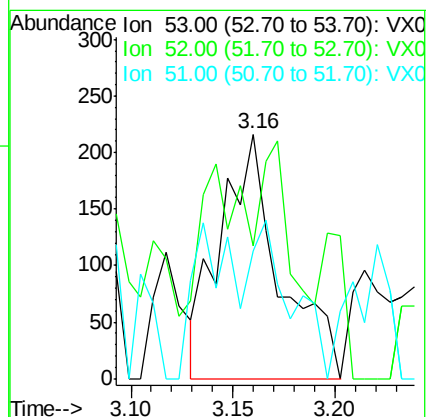
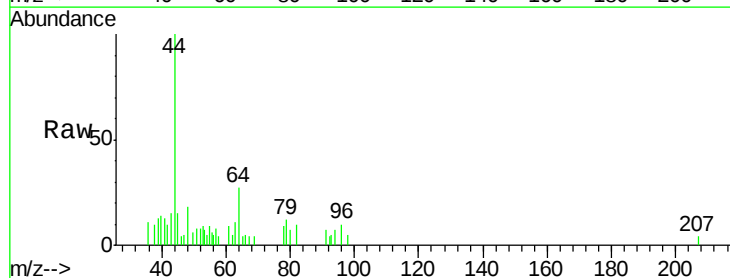
Tgt Ion: 53 Resp: 437

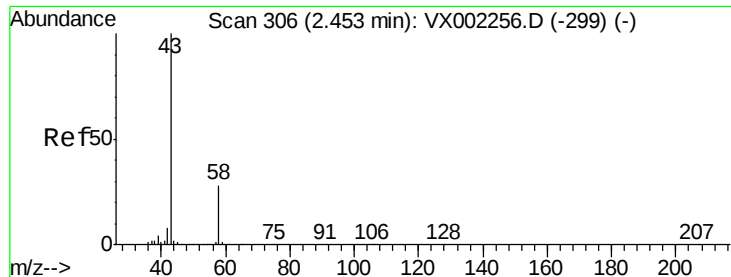
Ion Ratio Lower Upper

53 100

52 35.7 66.7 100.1#

51 44.2 29.9 44.9





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

Instrument :

MSVOA_X

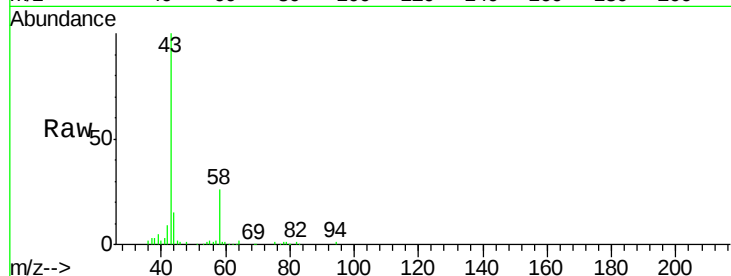
ClientSampleId :

Tot Ion: 43 Resp: 24563

Ion Ratio Lower Upper

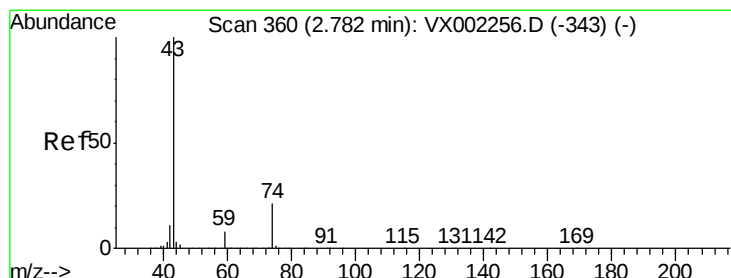
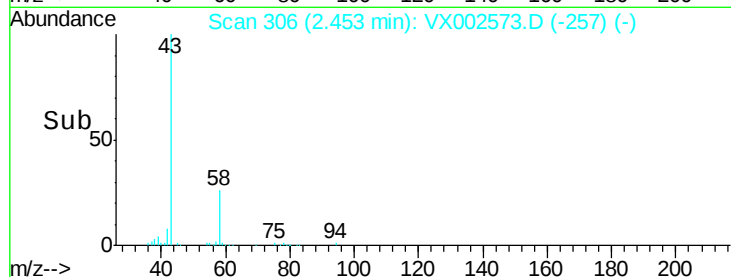
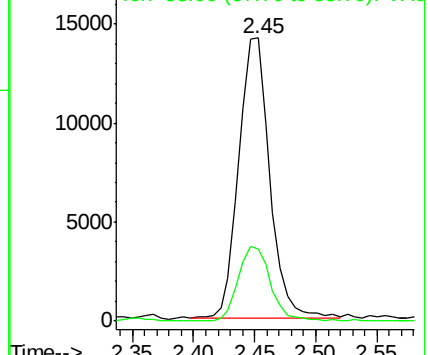
43 100

58 25.8 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 4.56 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002573.D

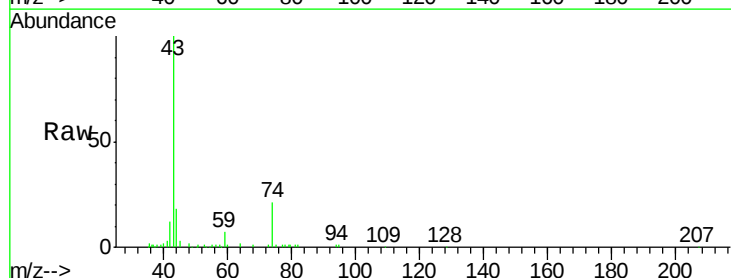
Acq: 15 Jun 2018 01:37

Tgt Ion: 43 Resp: 23084

Ion Ratio Lower Upper

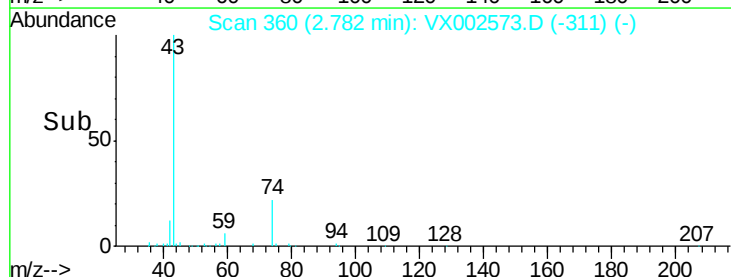
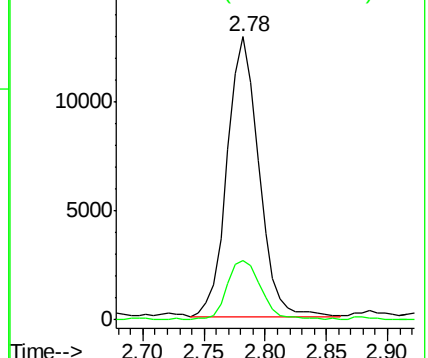
43 100

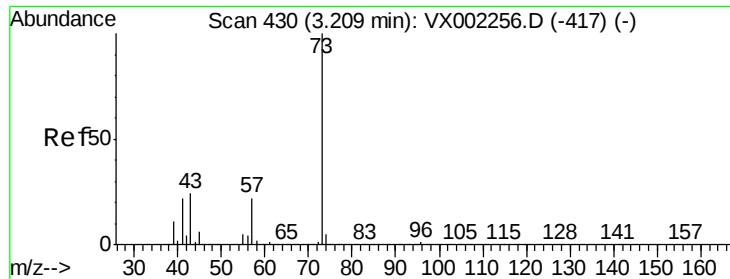
74 22.9 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

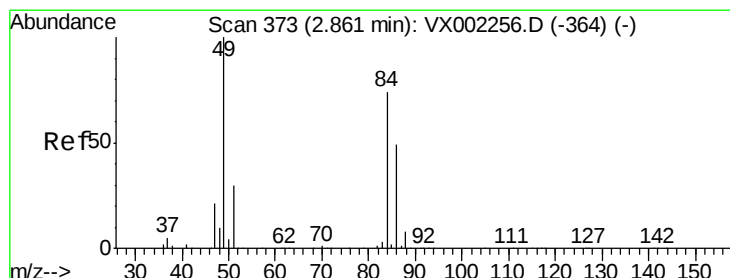
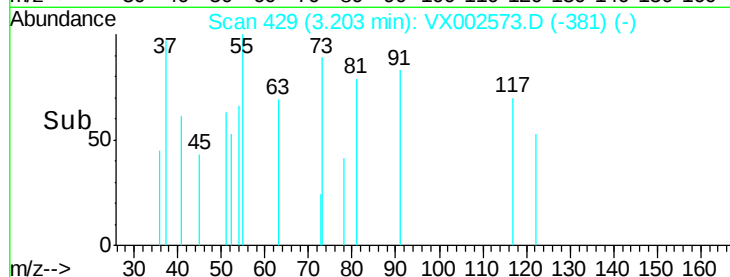
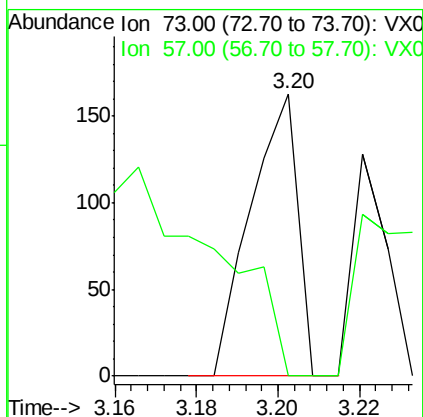
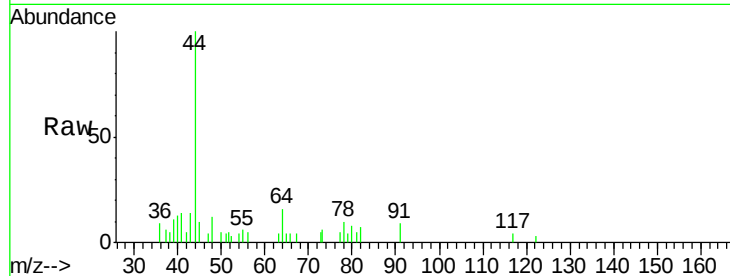




#19
Methvl tert-butvl Ether
Concen: Below Cal
RT: 3.20 min Scan# 429
Delta R.T. -0.01 min
Lab File: VX002573.D
Acq: 15 Jun 2018 01:37

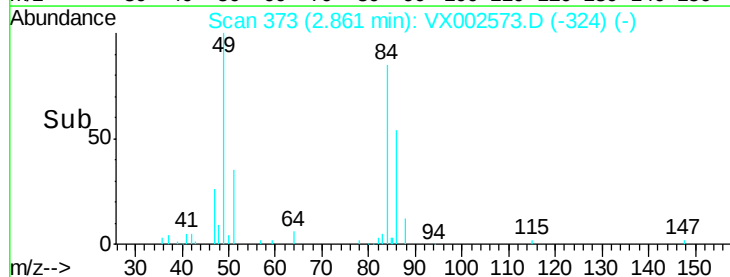
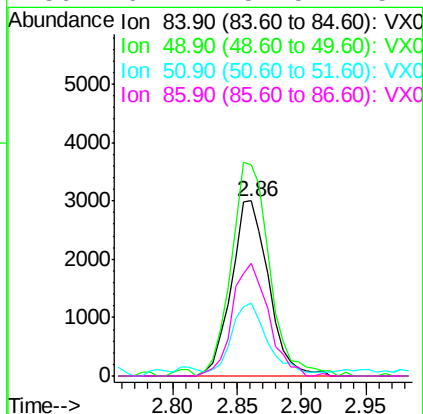
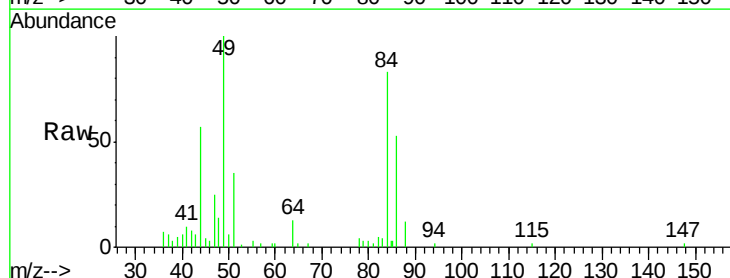
Instrument :
MSVOA_X
ClientSampleId :

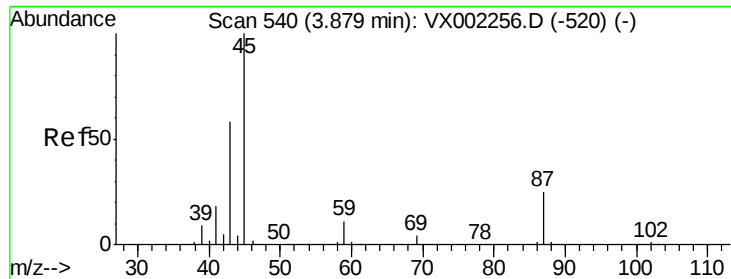
Tot Ion: 73 Resp: 132
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002573.D
Acq: 15 Jun 2018 01:37

Tgt Ion: 84 Resp: 6006
Ion Ratio Lower Upper
84 100
49 120.7 107.8 161.6
51 38.6 32.8 49.2
86 64.4 52.5 78.7

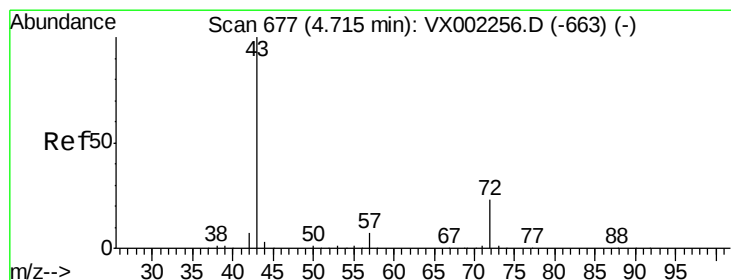
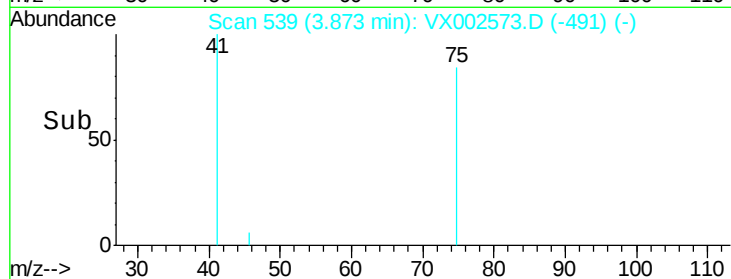
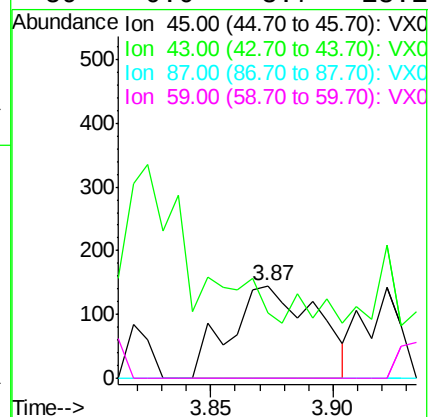
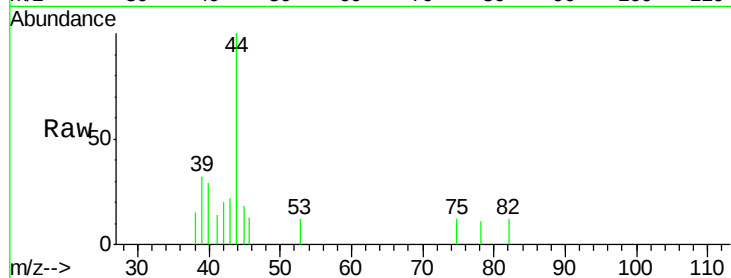




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 539
Delta R.T. -0.01 min
Lab File: VX002573.D
Acq: 15 Jun 2018 01:37

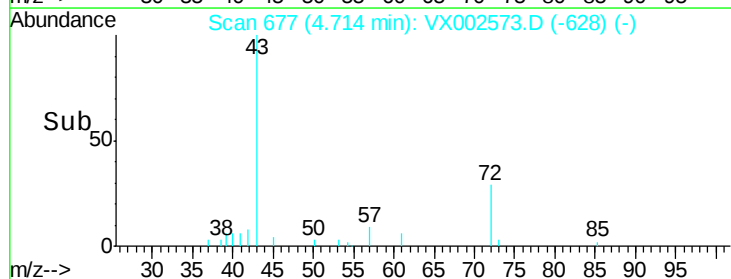
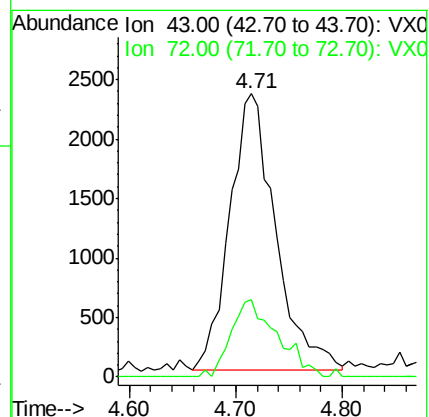
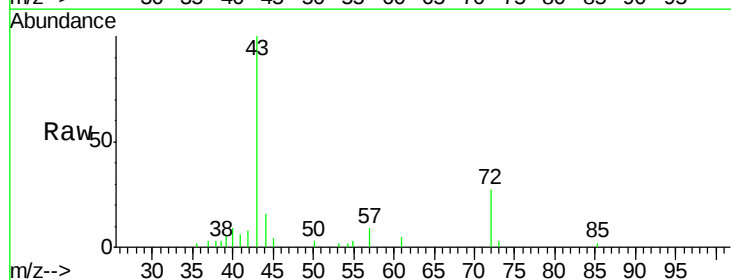
Instrument :
MSVOA_X
ClientSampleId :

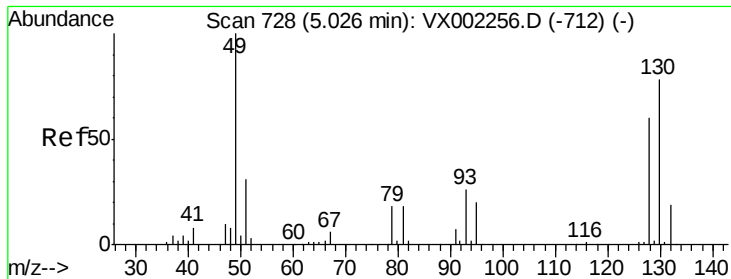
Tot Ion:	45	Resp:	354
Ion	Ratio	Lower	Upper
45	100		
43	11.7	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#



#25
2-Butanone
Concen: 3.12 ug/l
RT: 4.71 min Scan# 677
Delta R.T. -0.00 min
Lab File: VX002573.D
Acq: 15 Jun 2018 01:37

Tgt Ion:	43	Resp:	7025
Ion	Ratio	Lower	Upper
43	100		
72	28.0	18.5	27.7#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 726

Delta R.T. -0.01 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

Instrument :

MSVOA_X

ClientSampled :

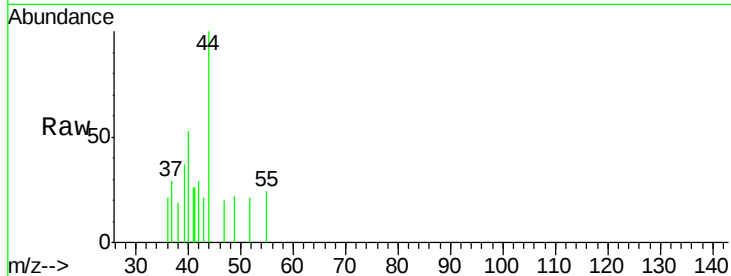
Tot Ion: 49 Resp: 44

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

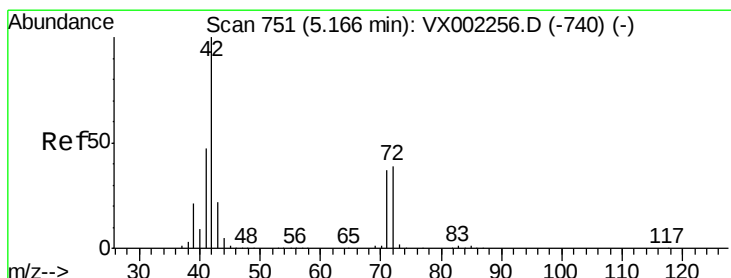
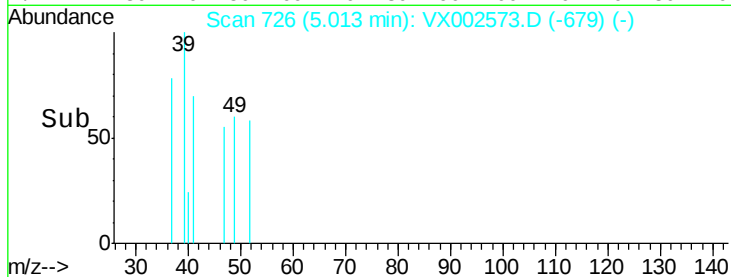
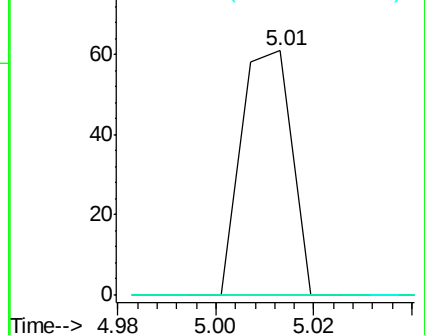
130 0.0 61.2 91.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.91 ug/l

RT: 5.17 min Scan# 751

Delta R.T. -0.00 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

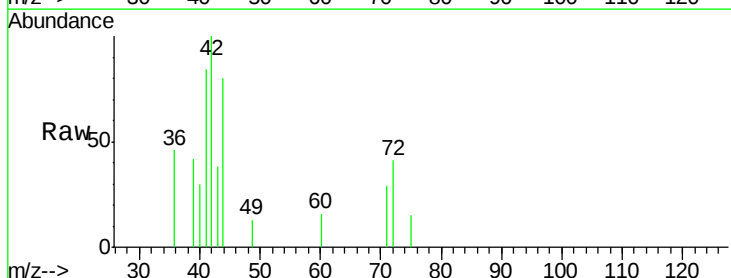
Tgt Ion: 42 Resp: 1318

Ion Ratio Lower Upper

42 100

72 42.0 32.0 48.0

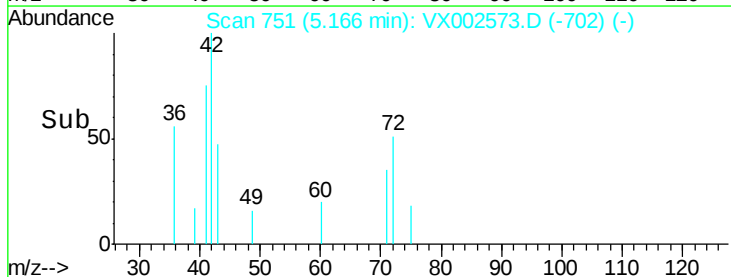
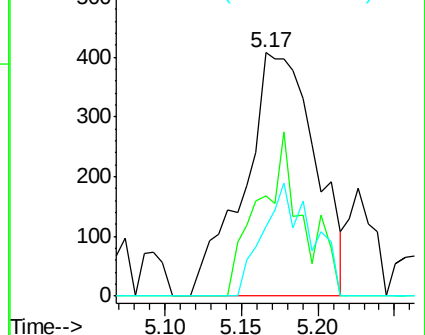
71 31.6 30.1 45.1

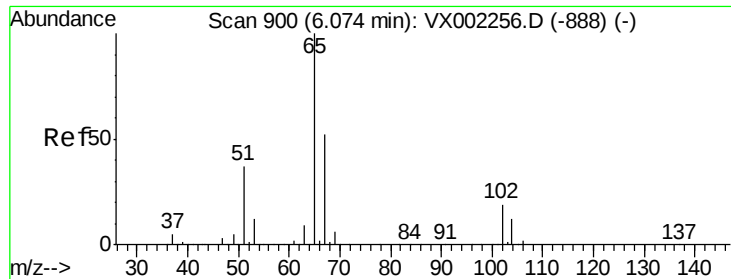


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.33 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

Instrument :

MSVOA_X

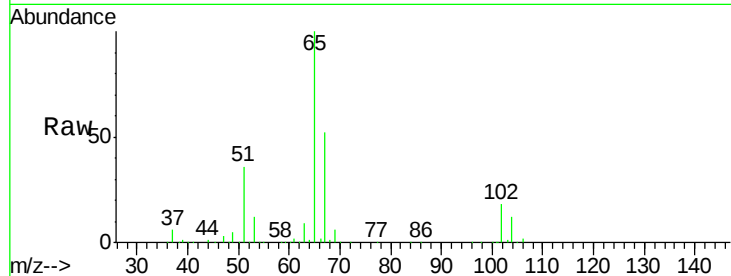
ClientSampleId :

Tot Ion: 65 Resp: 159065

Ion Ratio Lower Upper

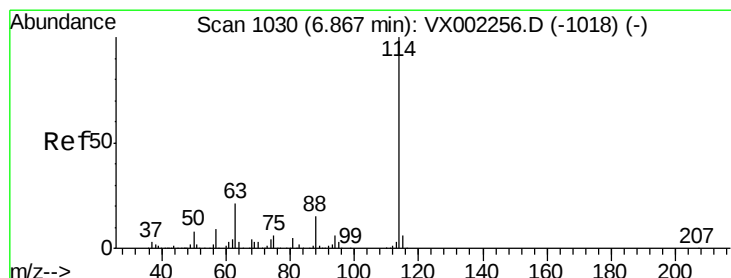
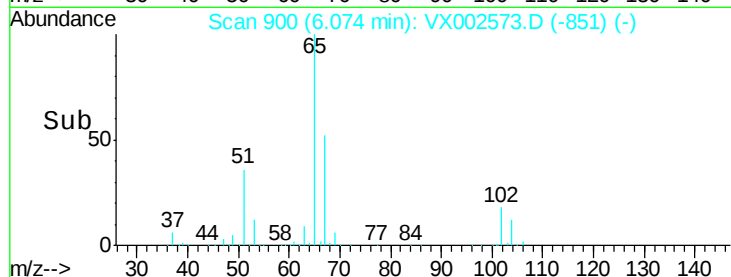
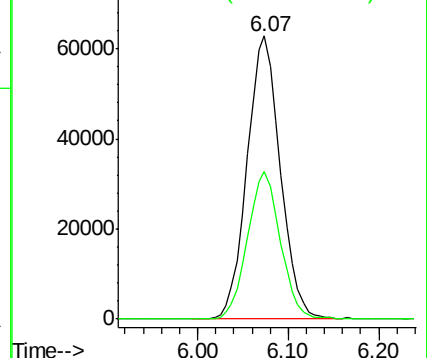
65 100

67 51.7 0.0 102.6



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: VX002573.D

Acq: 15 Jun 2018 01:37

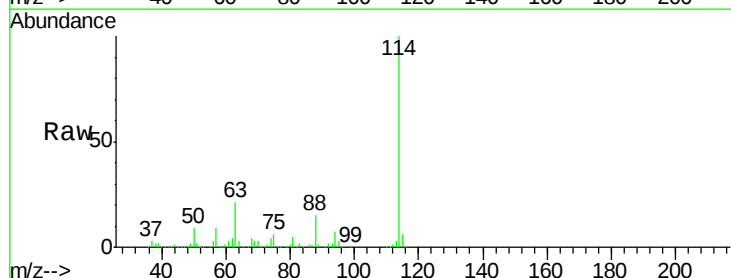
Tgt Ion: 114 Resp: 332432

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.4

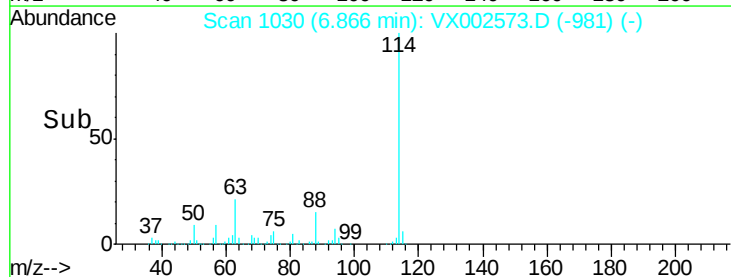
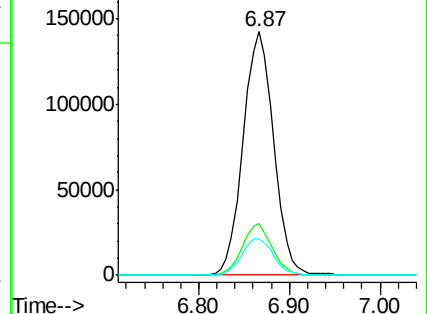
88 15.1 0.0 30.0

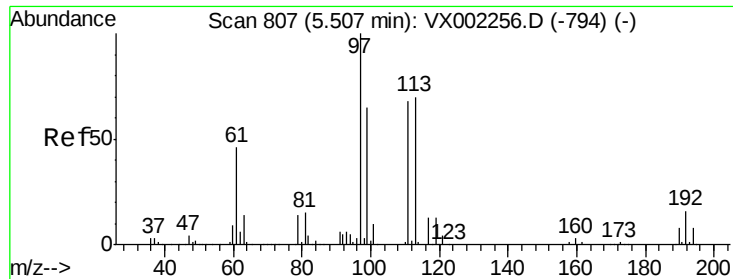


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 45.64 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

Instrument :

MSVOA_X

ClientSampled :

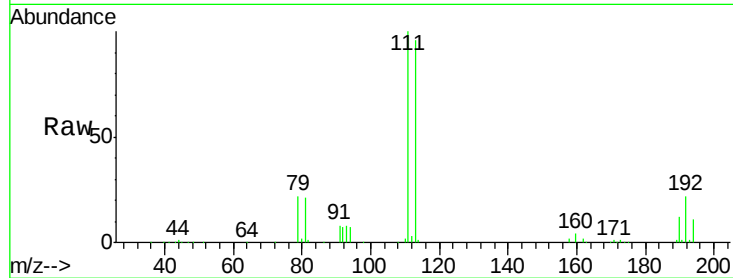
Tot Ion:113 Resp: 119318

Ion Ratio Lower Upper

113 100

111 101.4 81.4 122.0

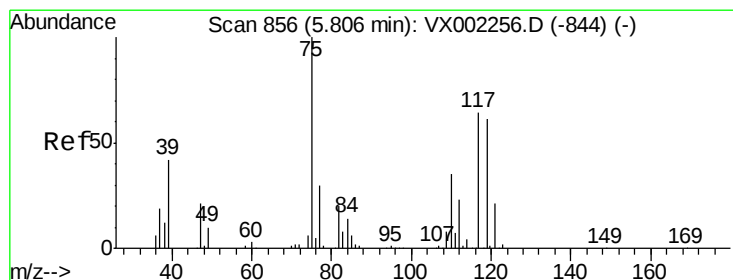
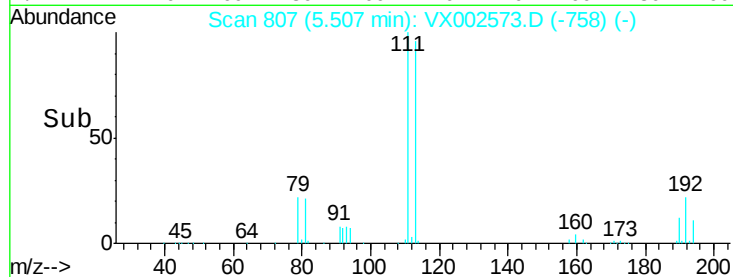
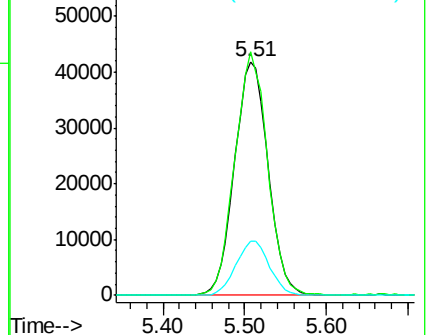
192 23.1 19.1 28.7



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: 4.65 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

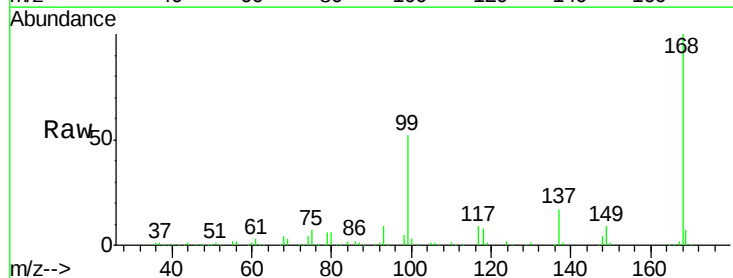
Tgt Ion: 75 Resp: 16268

Ion Ratio Lower Upper

75 100

110 10.3 18.1 54.4#

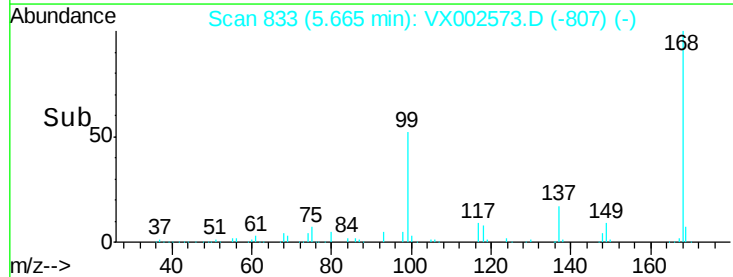
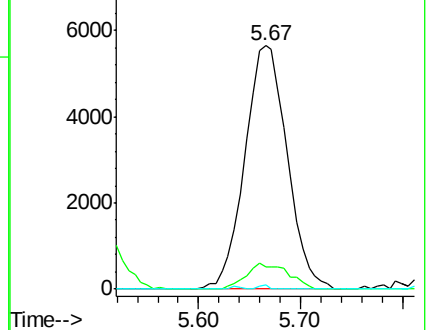
77 0.4 24.3 36.5#

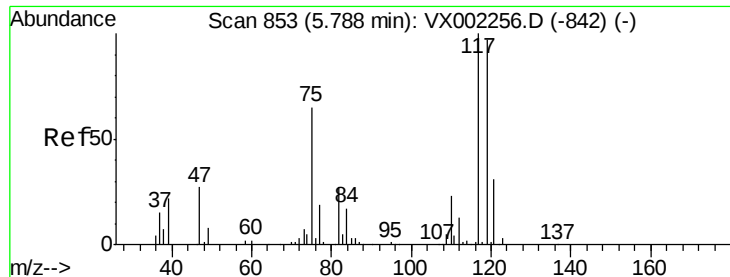


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

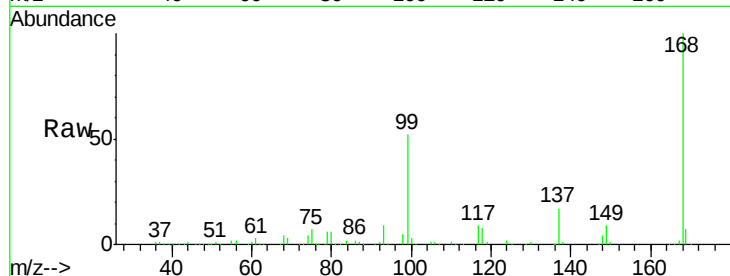




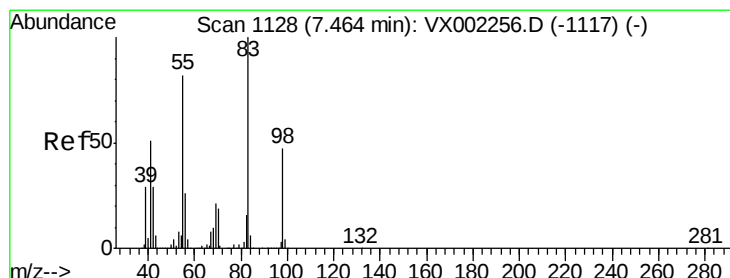
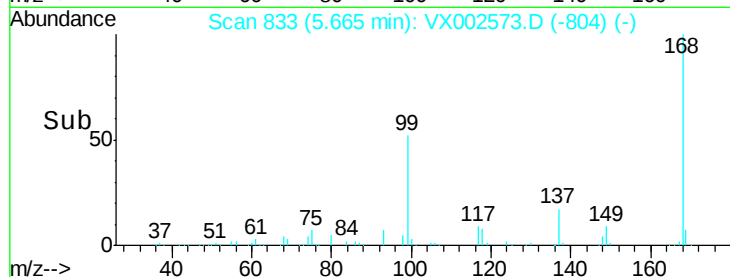
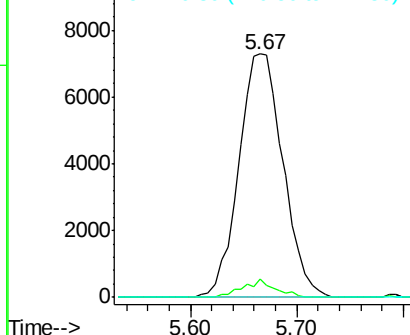
#38
Carbon Tetrachloride
Concen: 5.78 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX002573.D
Acq: 15 Jun 2018 01:37

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 21122
Ion Ratio Lower Upper
117 100
119 7.3 77.4 116.0#
121 0.0 24.4 36.6#

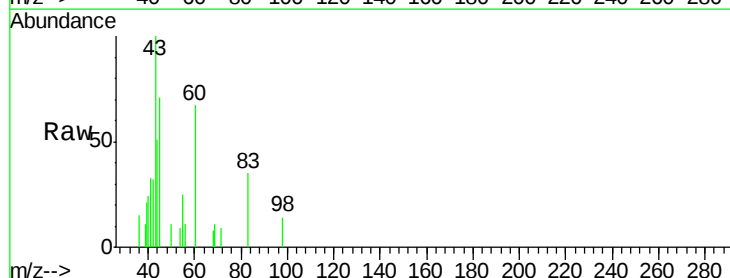


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

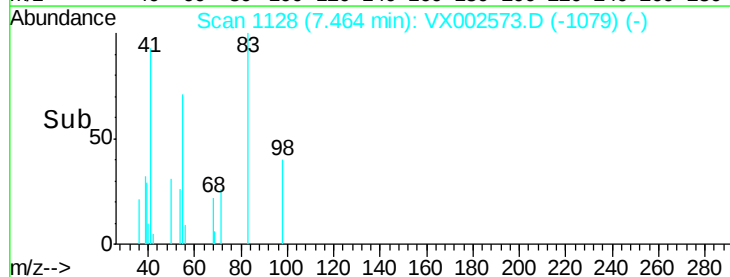
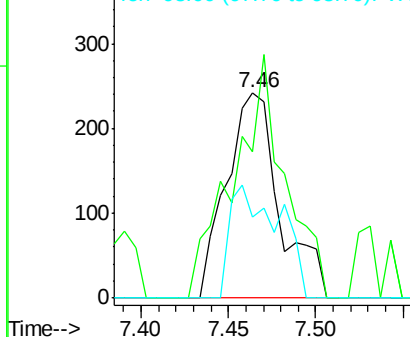


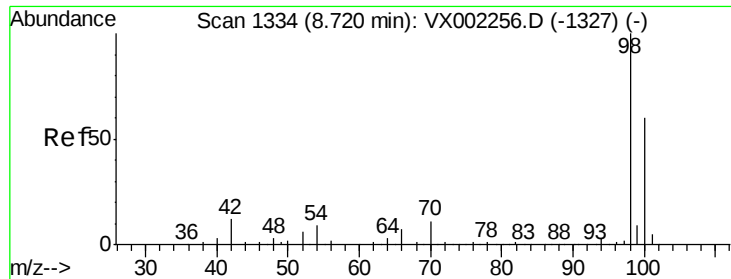
#39
Methylcyclohexane
Concen: 0.38 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VX002573.D
Acq: 15 Jun 2018 01:37

Tgt Ion: 83 Resp: 513
Ion Ratio Lower Upper
83 100
55 71.1 65.4 98.0
98 39.7 37.4 56.0



Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 47.98 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

Instrument :

MSVOA_X

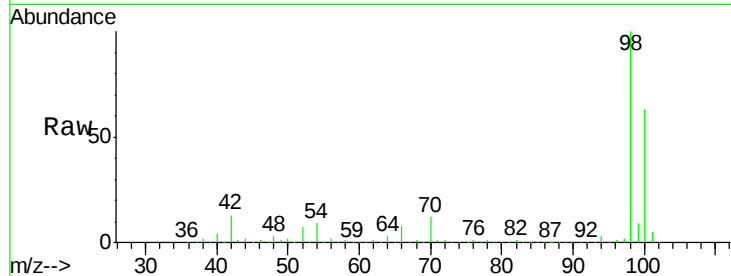
ClientSampleId :

Tot Ion: 98 Resp: 480754

Ion Ratio Lower Upper

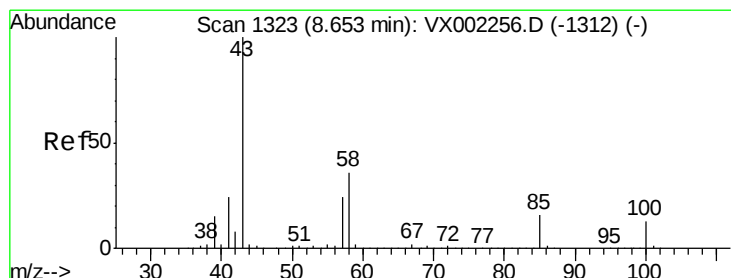
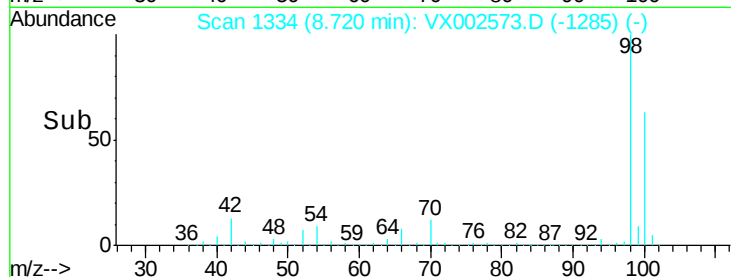
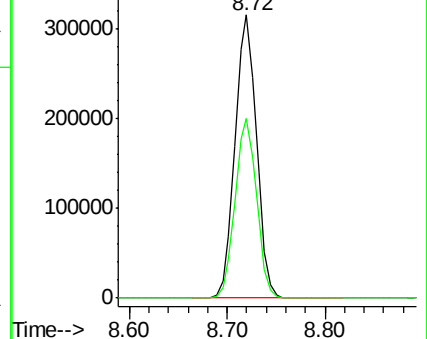
98 100

100 63.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 1.27 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX002573.D

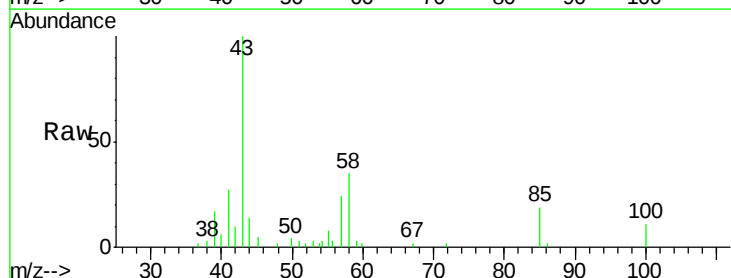
Acq: 15 Jun 2018 01:37

Tgt Ion: 43 Resp: 5664

Ion Ratio Lower Upper

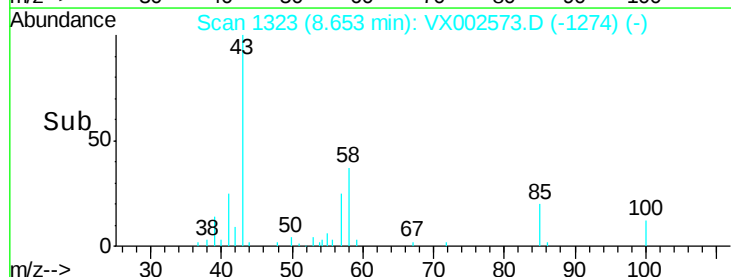
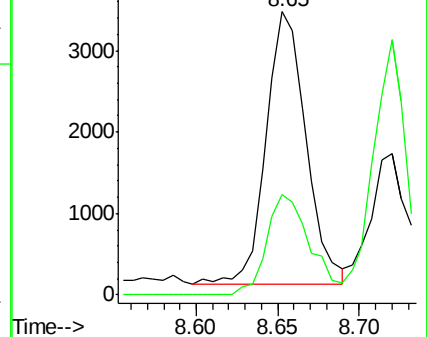
43 100

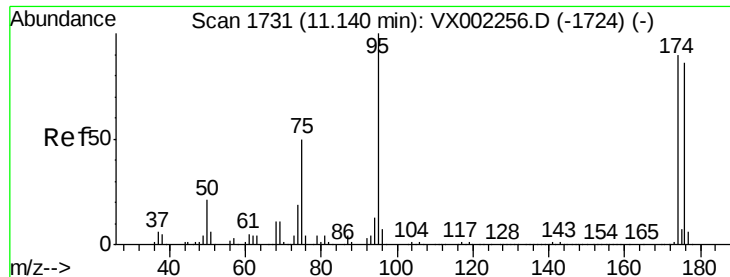
58 39.8 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.24 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

Instrument :

MSVOA_X

ClientSampleId :

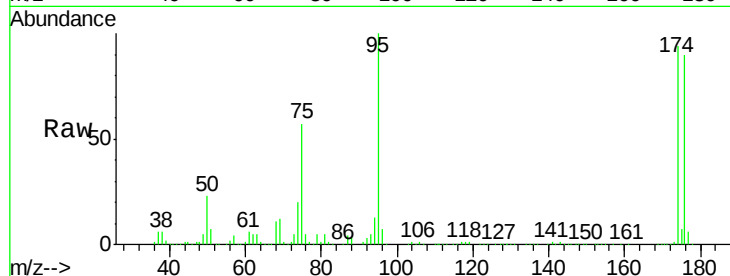
Tot Ion: 95 Resp: 170942

Ion Ratio Lower Upper

95 100

174 96.0 0.0 187.4

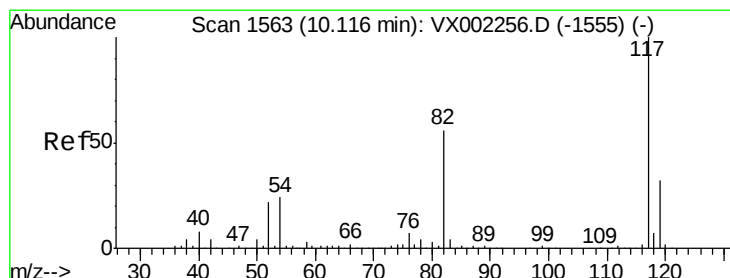
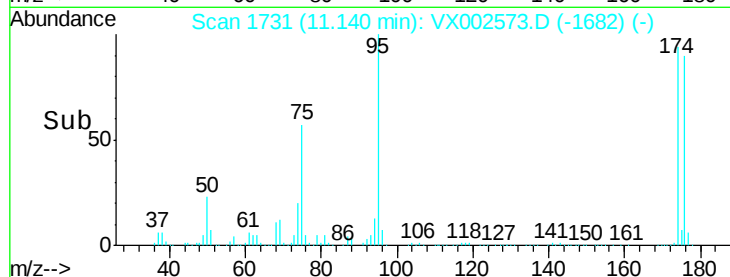
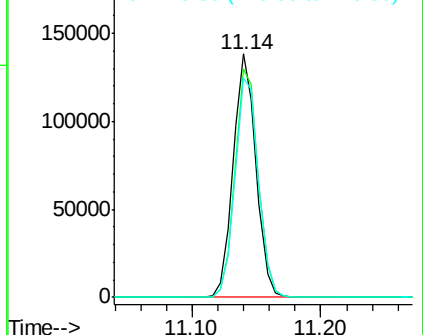
176 92.9 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002256.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002256.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002256.D (-1724) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

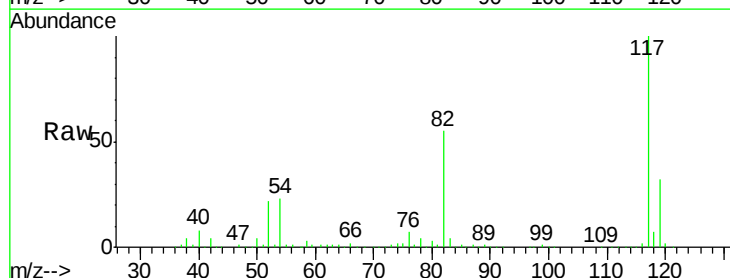
Tgt Ion: 117 Resp: 313510

Ion Ratio Lower Upper

117 100

82 54.7 45.0 67.4

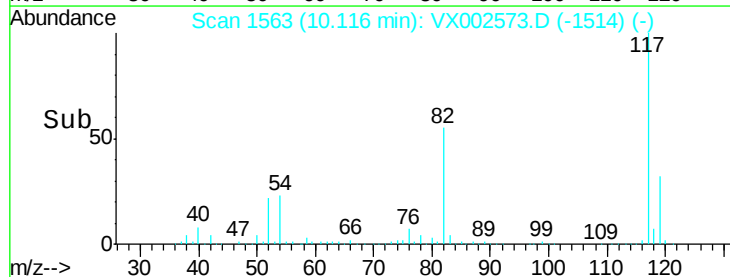
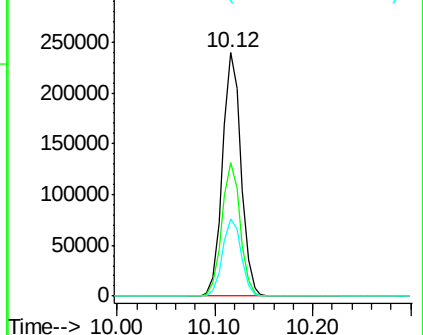
119 31.9 25.8 38.6

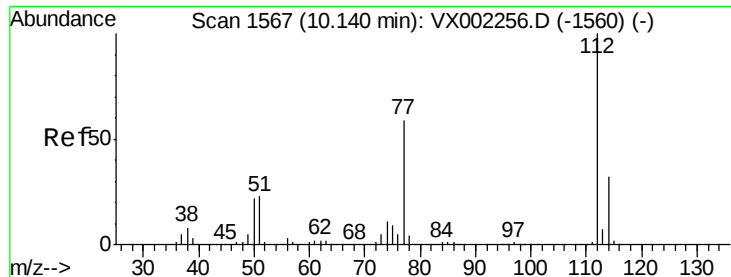


Abundance Ion 116.90 (116.60 to 117.60): VX002256.D (-1555) (-)

Ion 82.00 (81.70 to 82.70): VX002256.D (-1555) (-)

Ion 118.90 (118.60 to 119.60): VX002256.D (-1555) (-)





#65

Chlorobenzene

Concen: 0.42 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

Instrument :

MSVOA_X

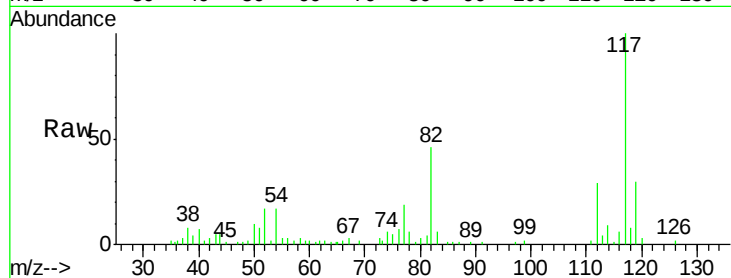
ClientSampled :

Tot Ion:112 Resp: 3253

Ion Ratio Lower Upper

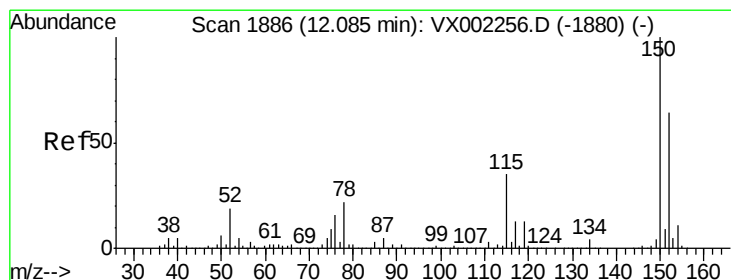
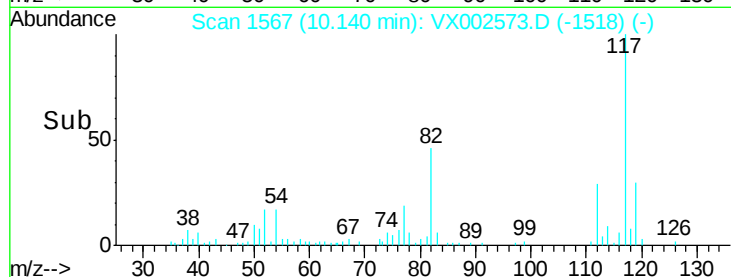
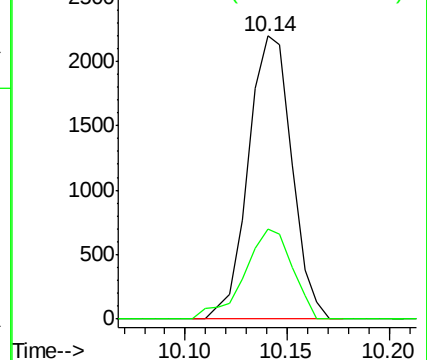
112 100

114 31.8 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

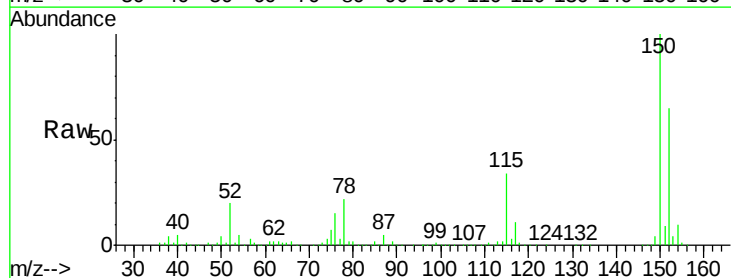
Tgt Ion:152 Resp: 182908

Ion Ratio Lower Upper

152 100

115 54.7 40.1 120.2

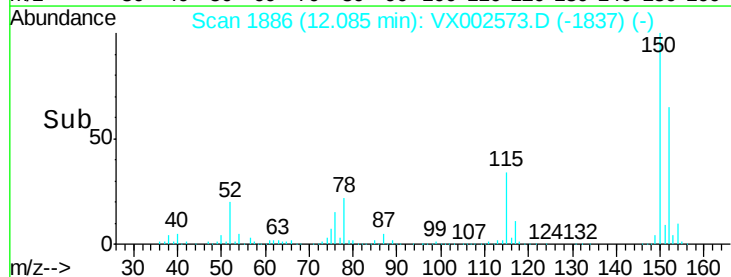
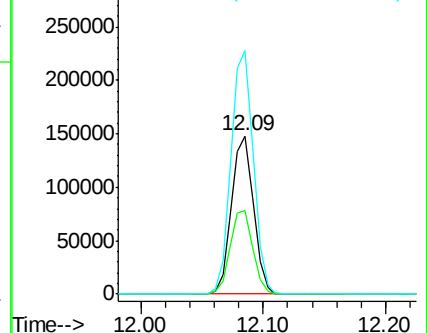
150 156.4 0.0 347.2

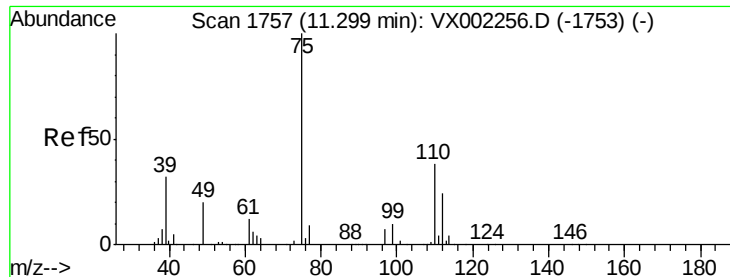


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.34 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

Instrument :

MSVOA_X

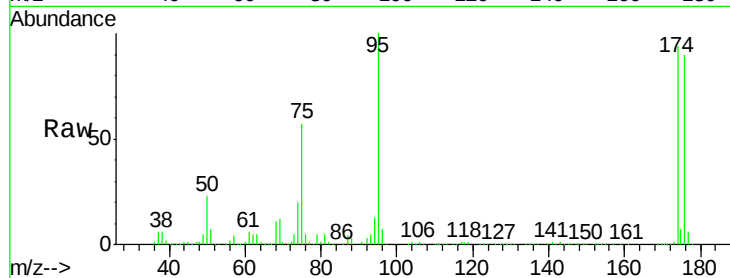
ClientSampleId :

Tot Ion: 75 Resp: 93677

Ion Ratio Lower Upper

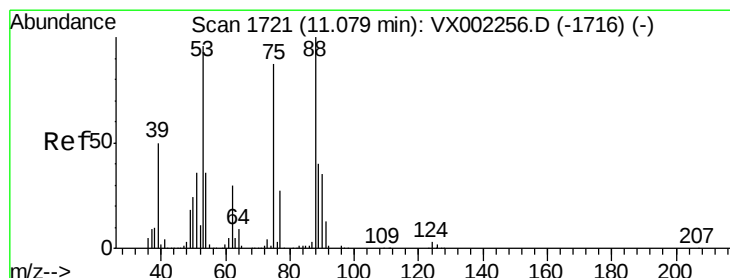
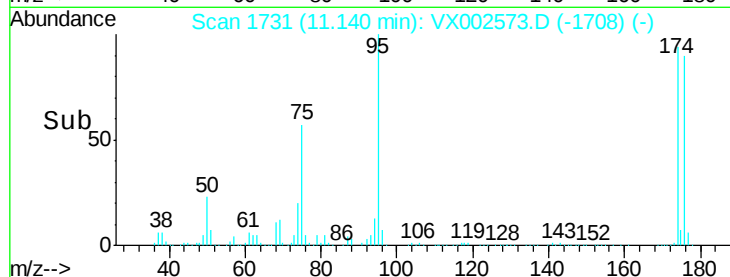
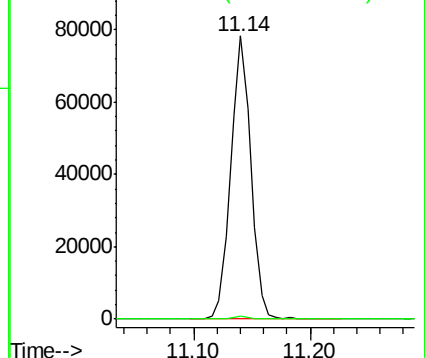
75 100

77 1.1 22.8 68.3#



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: 81.82 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002573.D

Acq: 15 Jun 2018 01:37

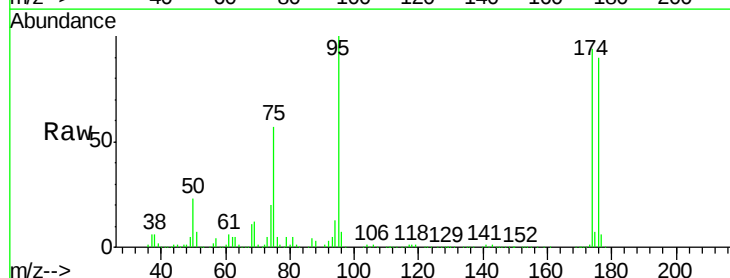
Tgt Ion: 75 Resp: 93677

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

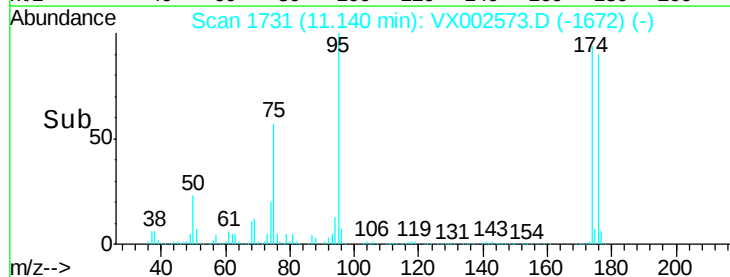
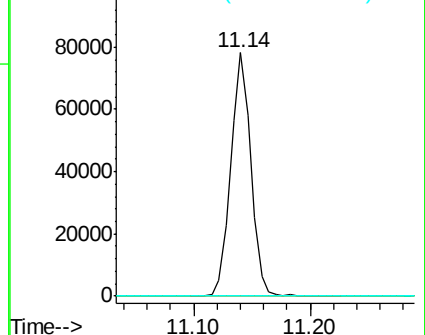
89 0.0 38.2 57.2#

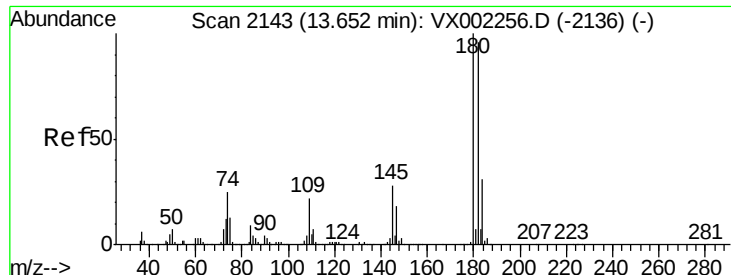


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

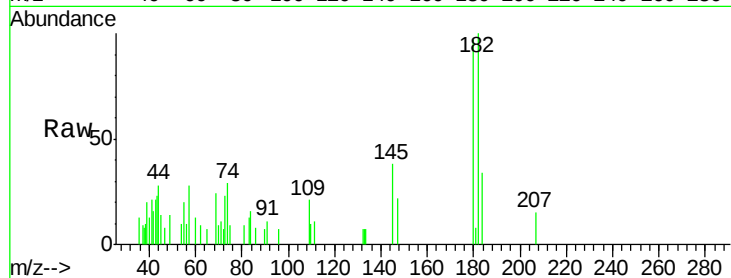




#93
 1,2,4-Trichlorobenzene
 Concen: 0.21 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. -0.00 min
 Lab File: VX002573.D
 Acq: 15 Jun 2018 01:37

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	84.3	47.7	143.1
145	36.8	14.1	42.4



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

