

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073118\
 Data File : VX003774.D
 Acq On : 01 Aug 2018 03:04
 Operator : JC/SP
 Sample : J4136-03
 Misc : 14.93G/5.0mL/MSVOA X/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CON-SB-03-11-13

Quant Time: Aug 01 06:45:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 11:17:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	98634	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	145601	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	111154	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	49245	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	36201	36.29	ug/l	0.00
Spiked Amount			Recovery	=	72.58%	
35) Dibromofluoromethane	5.51	113	35538	41.45	ug/l	0.00
Spiked Amount			Recovery	=	82.90%	
50) Toluene-d8	8.72	98	130313	36.46	ug/l	0.00
Spiked Amount			Recovery	=	72.92%	
62) 4-Bromofluorobenzene	11.14	95	41173	31.24	ug/l	0.00
Spiked Amount			Recovery	=	62.48%	

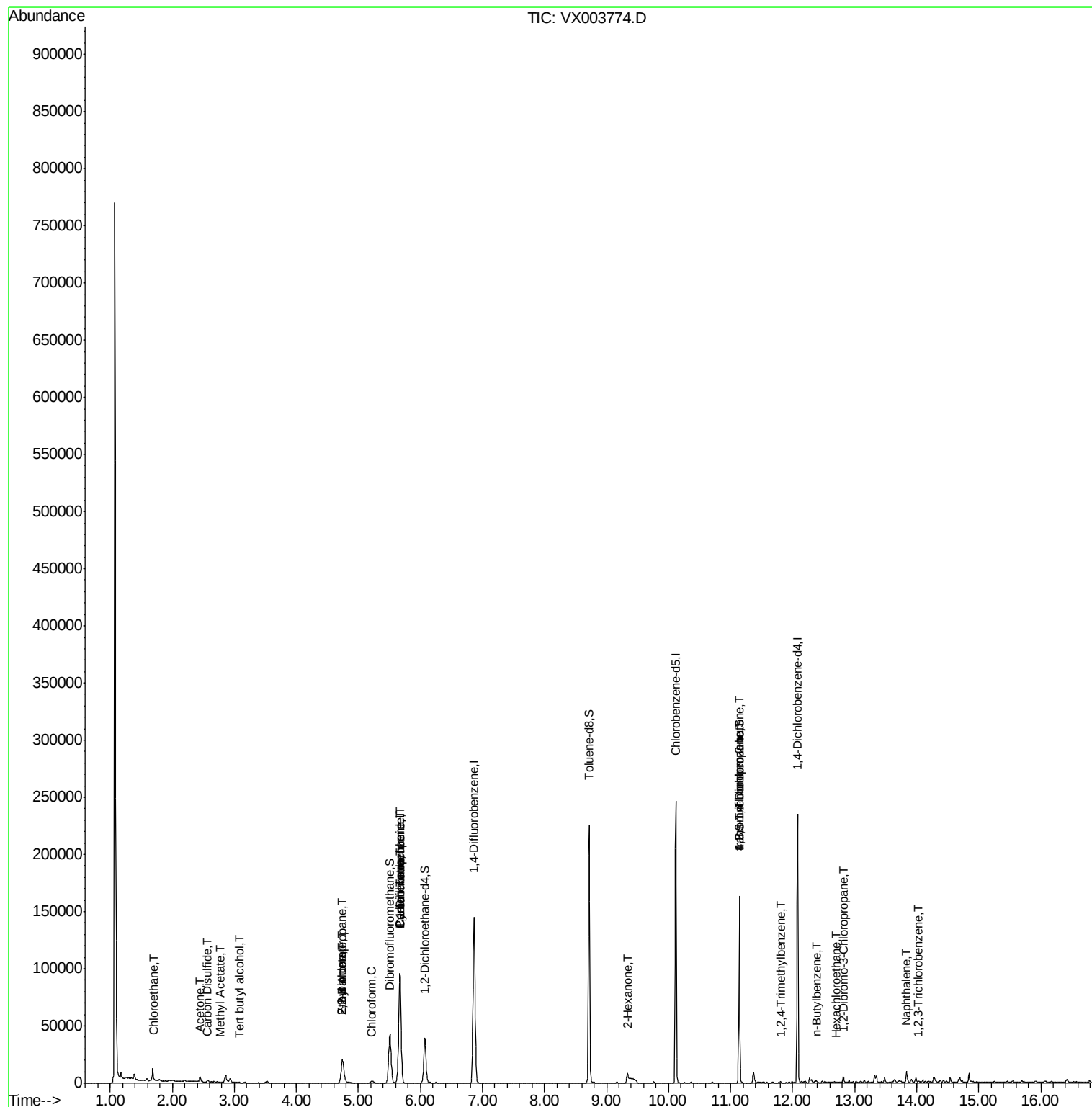
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	111	Below Cal	#	72
6) Chloroethane	1.71	64	1703	2.29	ug/l #	42
11) Tert butyl alcohol	3.08	59	431	2.67	ug/l #	73
16) Acetone	2.45	43	4237	11.12	ug/l #	87
17) Carbon Disulfide	2.57	76	1354	0.47	ug/l #	85
18) Methyl Acetate	2.77	43	606	0.57	ug/l #	83
20) Methylene Chloride	2.86	84	2841	Below Cal		97
25) 2-Butanone	4.73	43	1382	2.49	ug/l #	78
26) 2,2-Dichloropropane	4.75	77	1656	1.28	ug/l #	51
30) Chloroform	5.21	83	2088	1.29	ug/l	94
31) Cyclohexane	5.66	56	1630	1.03	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	6448	4.73	ug/l #	49
37) Ethyl Acetate	4.73	43	1382	1.32	ug/l #	8
38) Carbon Tetrachloride	5.66	117	8978	7.12	ug/l #	15
59) 2-Hexanone	9.35	43	161	0.21	ug/l #	23
76) 1,2,3-Trichloropropane	11.14	75	19468	28.68	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.14	75	19468	84.95	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	563	0.21	ug/l	98
89) n-Butylbenzene	12.39	91	622	0.22	ug/l #	63
90) Hexachloroethane	12.70	117	139	0.31	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	12.82	75	119	0.75	ug/l #	1
95) Naphthalene	13.83	128	6342	2.47	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	247	0.23	ug/l #	36

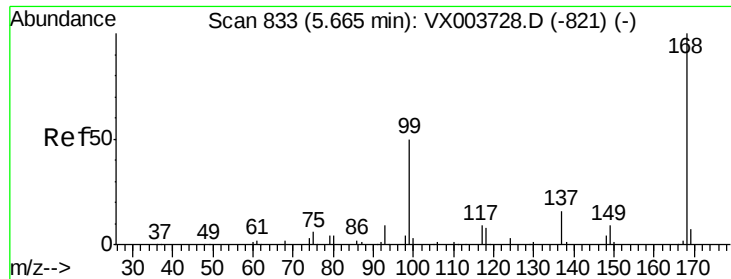
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VX003774.D
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Quant Time: Aug 01 06:45:38 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X073018S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 31 11:17:41 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003774.D

Acq: 01 Aug 2018 03:04

Instrument :

MSVOA_X

ClientSampleId :

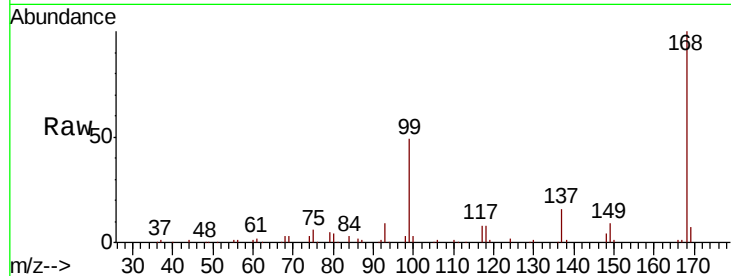
CON-SB-03-11-13

Tot Ion:168 Resp: 98634

Ion Ratio Lower Upper

168 100

99 48.9 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

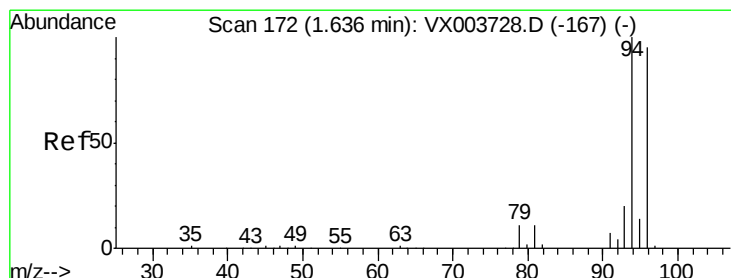
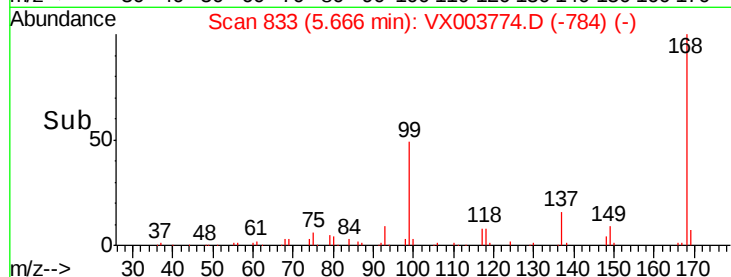
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003774.D

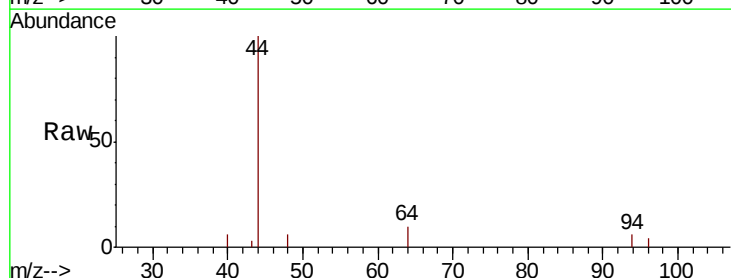
Acq: 01 Aug 2018 03:04

Tgt Ion: 94 Resp: 111

Ion Ratio Lower Upper

94 100

96 67.3 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

100

80

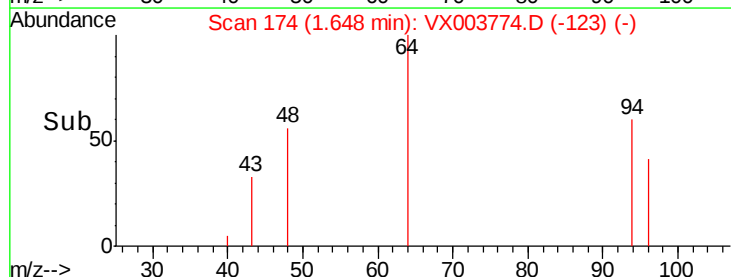
60

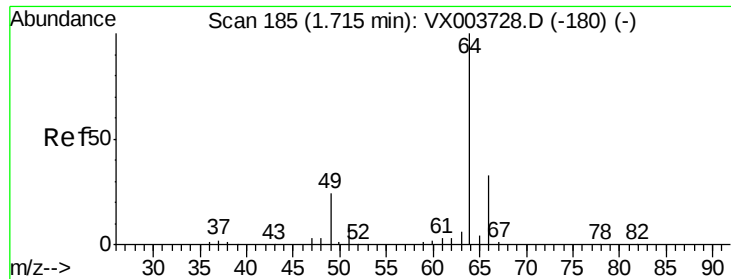
40

20

0

Time--> 1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: 2.29 ug/l

RT: 1.71 min Scan# 184

Delta R.T. -0.00 min

Lab File: VX003774.D

Acq: 01 Aug 2018 03:04

Instrument :

MSVOA_X

ClientSampleId :

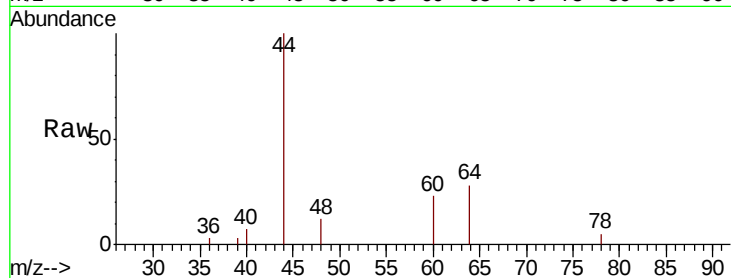
CON-SB-03-11-13

Tot Ion: 64 Resp: 1703

Ion Ratio Lower Upper

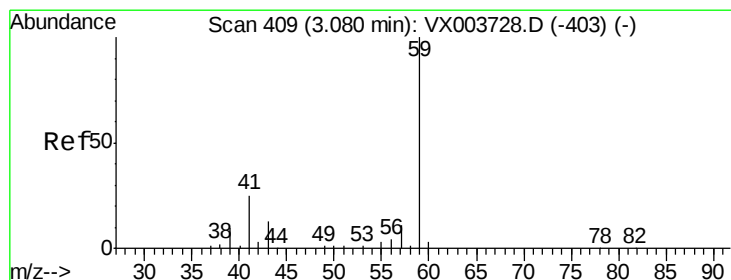
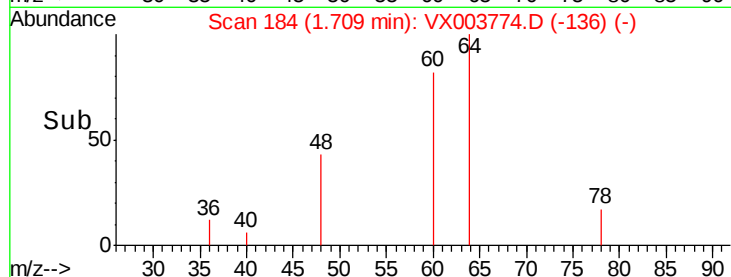
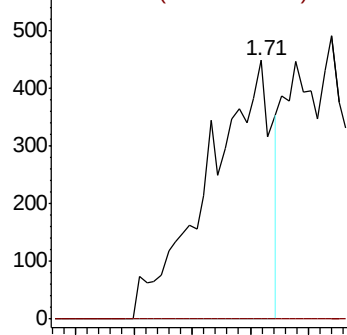
64 100

66 0.0 26.4 39.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 2.67 ug/l

RT: 3.08 min Scan# 409

Delta R.T. 0.00 min

Lab File: VX003774.D

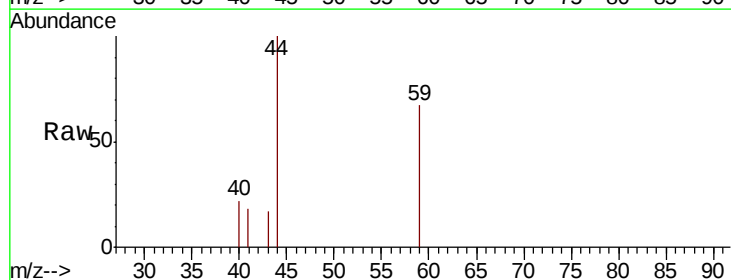
Acq: 01 Aug 2018 03:04

Tgt Ion: 59 Resp: 431

Ion Ratio Lower Upper

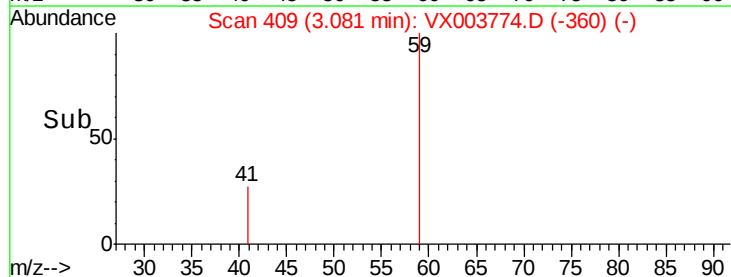
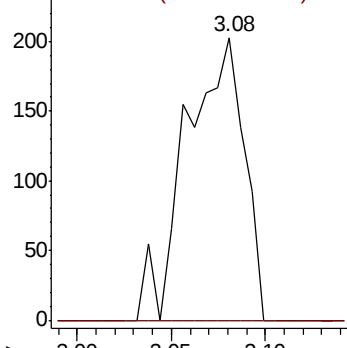
59 100

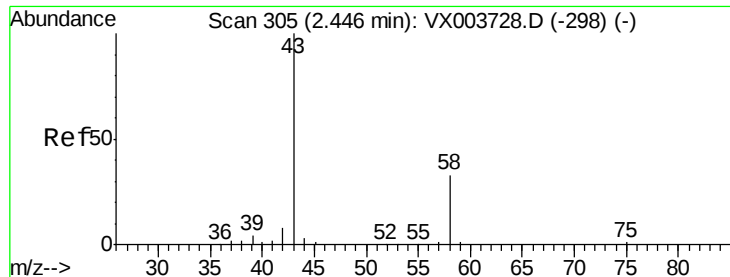
57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 11.12 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003774.D

Acq: 01 Aug 2018 03:04

Instrument :

MSVOA_X

ClientSampleId :

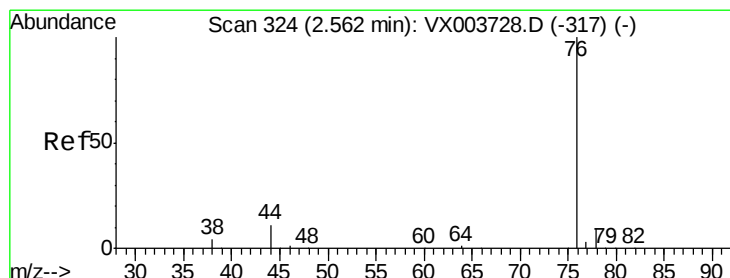
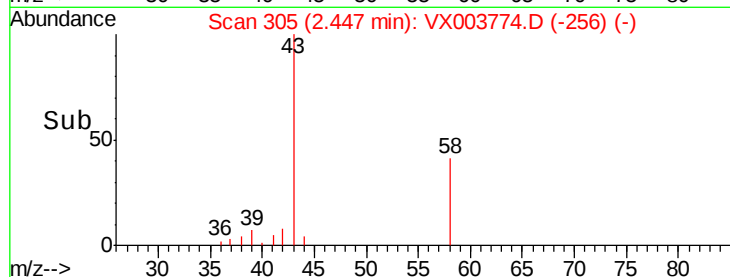
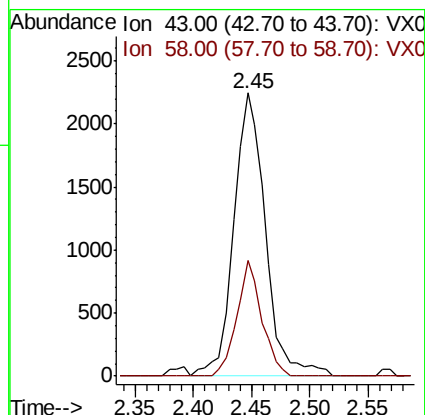
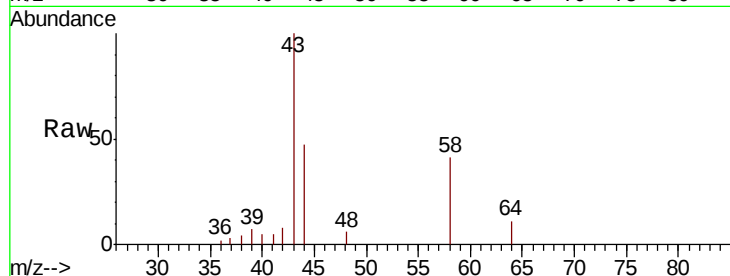
CON-SB-03-11-13

Tot Ion: 43 Resp: 4237

Ion Ratio Lower Upper

43 100

58 41.0 26.7 40.1#



#17

Carbon Disulfide

Concen: 0.47 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003774.D

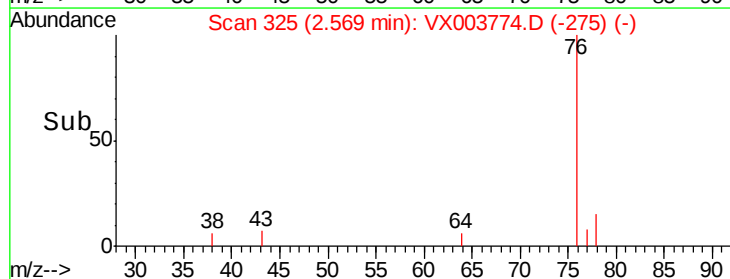
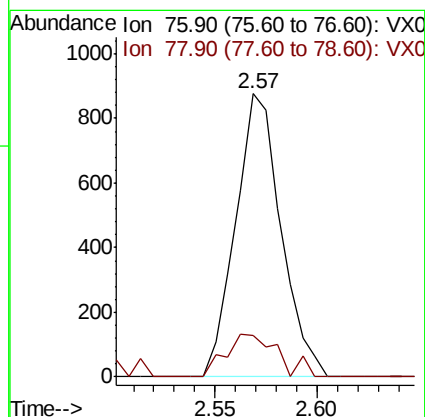
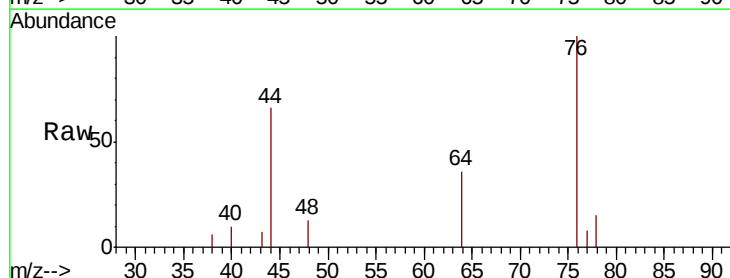
Acq: 01 Aug 2018 03:04

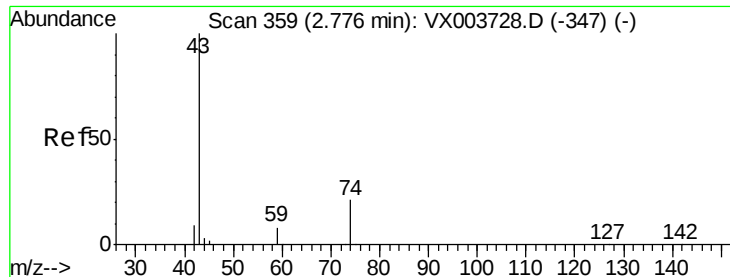
Tgt Ion: 76 Resp: 1354

Ion Ratio Lower Upper

76 100

78 14.6 7.3 10.9#

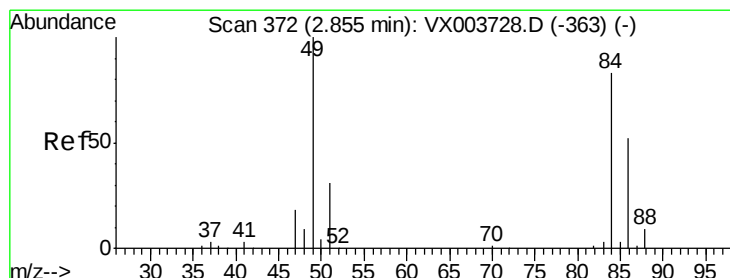
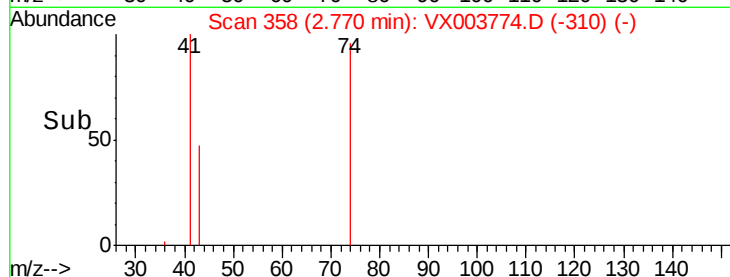
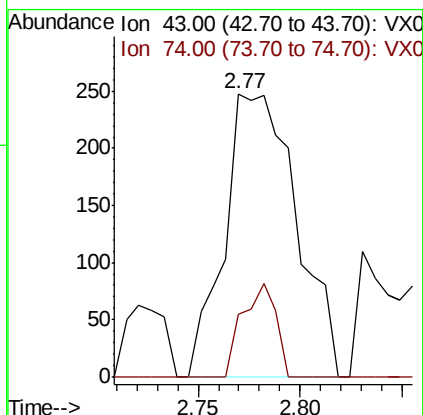
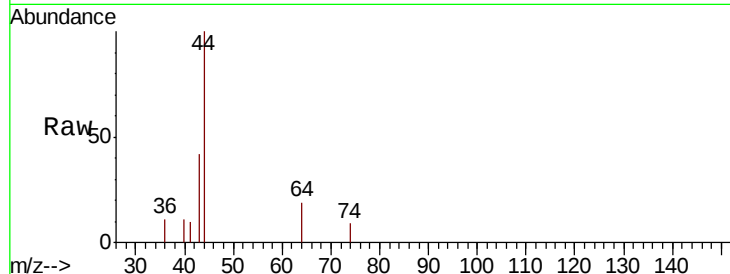




#18
Methyl Acetate
Concen: 0.57 ug/l
RT: 2.77 min Scan# 358
Delta R.T. -0.01 min
Lab File: VX003774.D
Acq: 01 Aug 2018 03:04

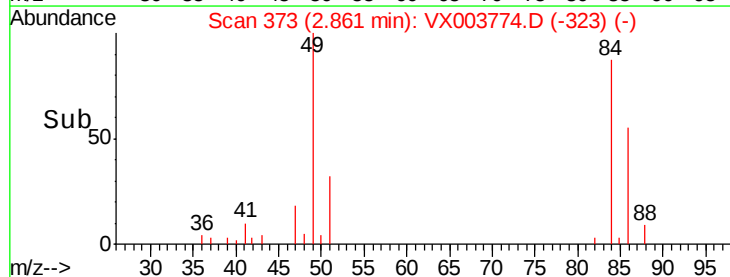
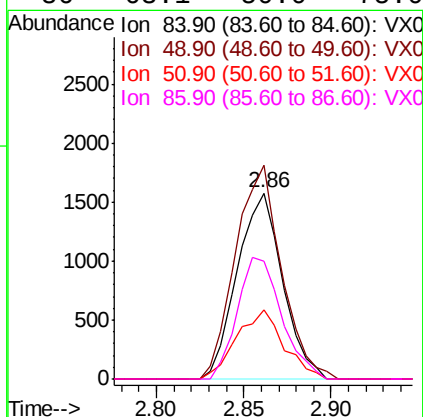
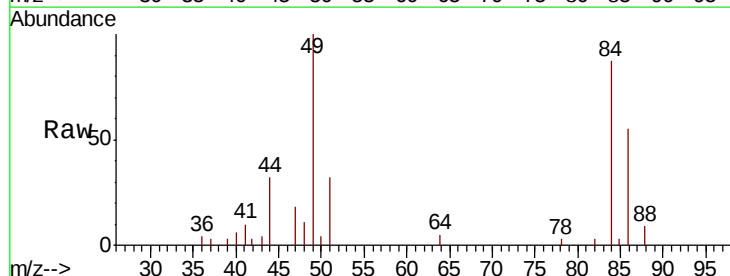
Instrument :
MSVOA_X
ClientSampleId :
CON-SB-03-11-13

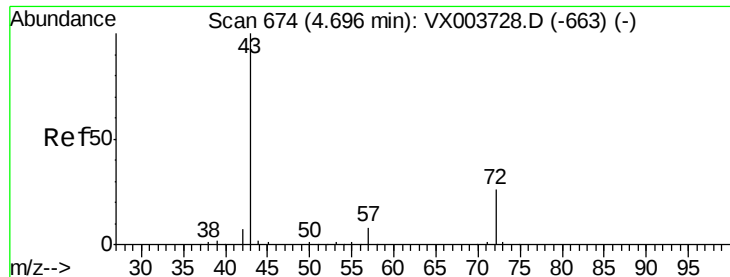
Tot Ion: 43 Resp: 606
Ion Ratio Lower Upper
43 100
74 15.3 18.9 28.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003774.D
Acq: 01 Aug 2018 03:04

Tgt Ion: 84 Resp: 2841
Ion Ratio Lower Upper
84 100
49 114.9 95.8 143.8
51 37.2 29.6 44.4
86 63.1 50.0 75.0





#25

2-Butanone

Concen: 2.49 ug/l

RT: 4.73 min Scan# 680

Delta R.T. 0.04 min

Lab File: VX003774.D

Acq: 01 Aug 2018 03:04

Instrument :

MSVOA_X

ClientSampleId :

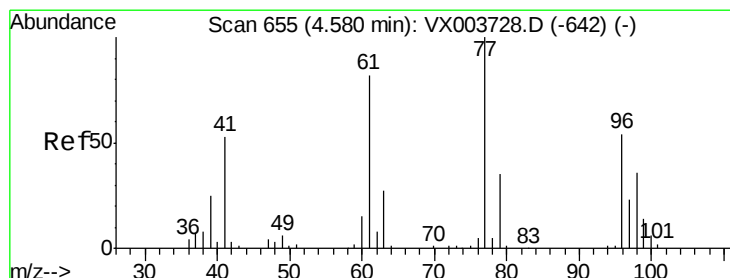
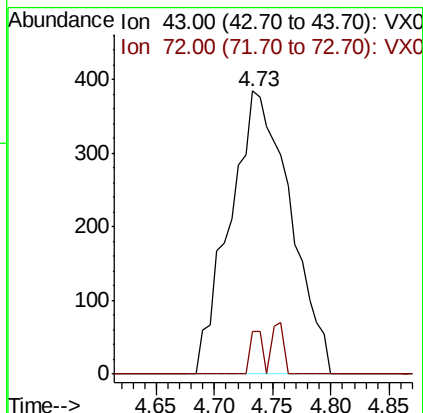
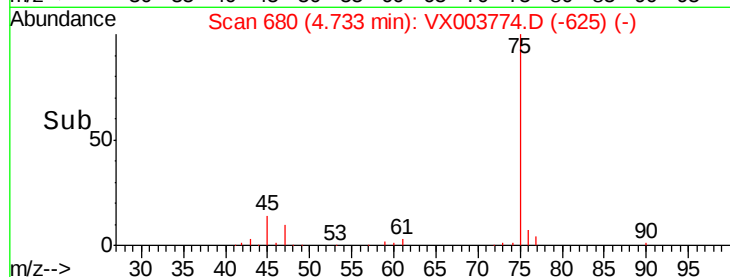
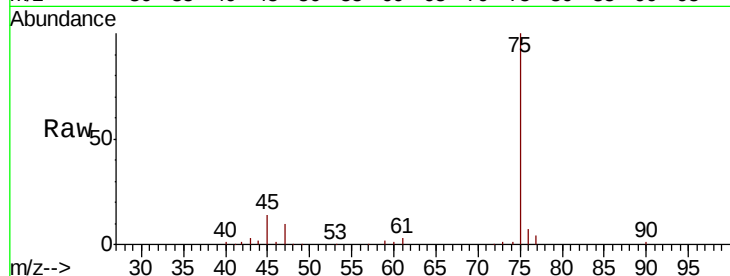
CON-SB-03-11-13

Tot Ion: 43 Resp: 1382

Ion Ratio Lower Upper

43 100

72 15.1 20.9 31.3#



#26

2,2-Dichloropropane

Concen: 1.28 ug/l

RT: 4.75 min Scan# 682

Delta R.T. 0.16 min

Lab File: VX003774.D

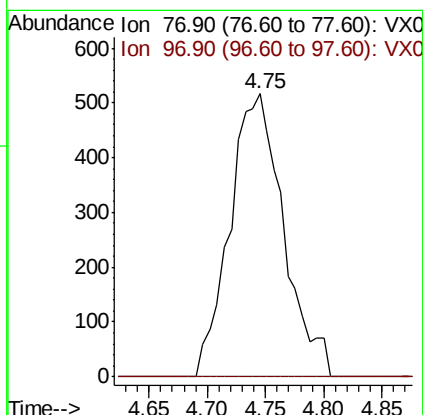
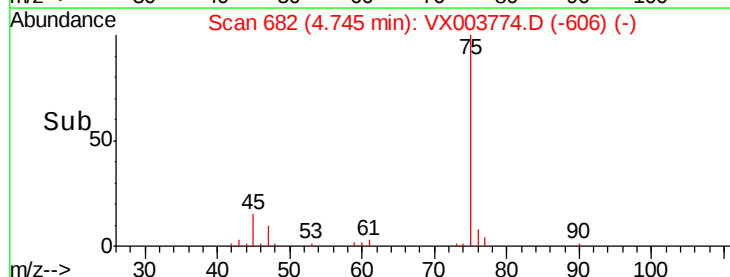
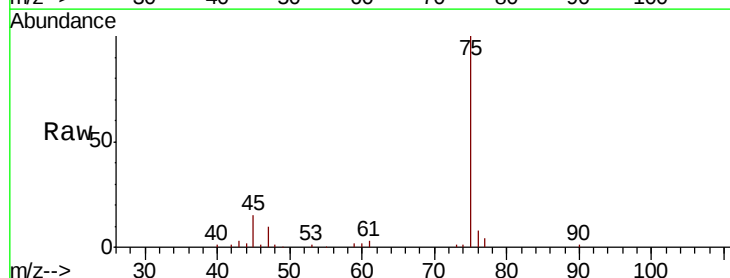
Acq: 01 Aug 2018 03:04

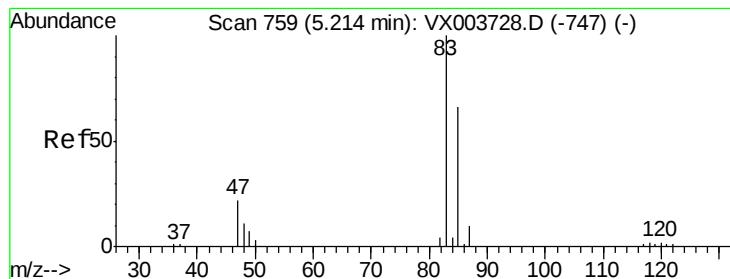
Tgt Ion: 77 Resp: 1656

Ion Ratio Lower Upper

77 100

97 0.0 12.2 36.6#





#30

Chloroform

Concen: 1.29 ug/l

RT: 5.21 min Scan# 759

Delta R.T. 0.00 min

Lab File: VX003774.D

Acq: 01 Aug 2018 03:04

Instrument :

MSVOA_X

ClientSampleId :

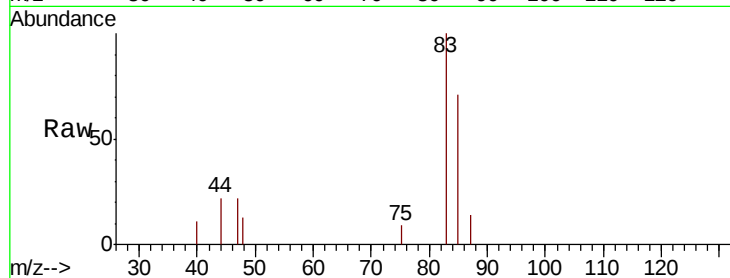
CON-SB-03-11-13

Tot Ion: 83 Resp: 2088

Ion Ratio Lower Upper

83 100

85 71.1 52.8 79.2



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.21

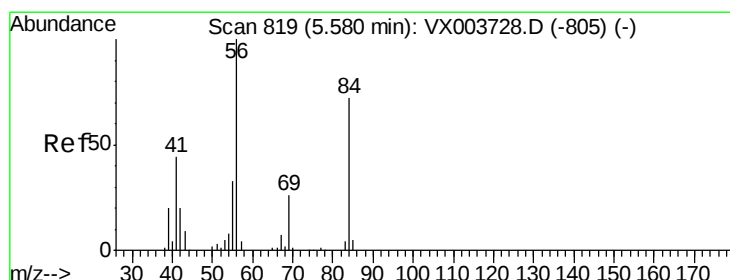
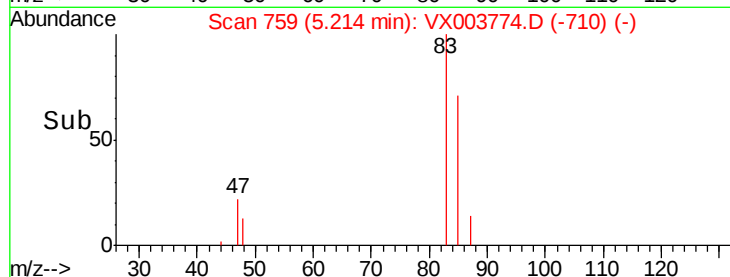
600

400

200

0

Time--> 5.10 5.15 5.20 5.25 5.30



#31

Cyclohexane

Concen: 1.03 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.08 min

Lab File: VX003774.D

Acq: 01 Aug 2018 03:04

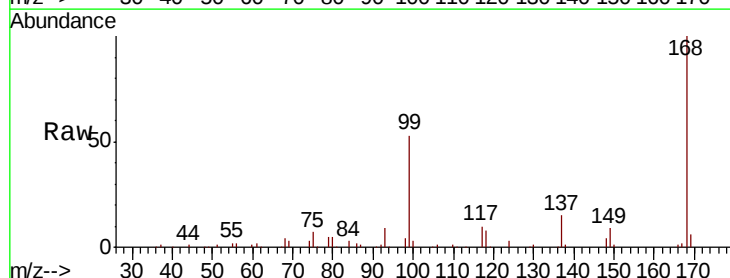
Tgt Ion: 56 Resp: 1630

Ion Ratio Lower Upper

56 100

69 181.9 20.6 30.8#

84 160.3 57.9 86.9#



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

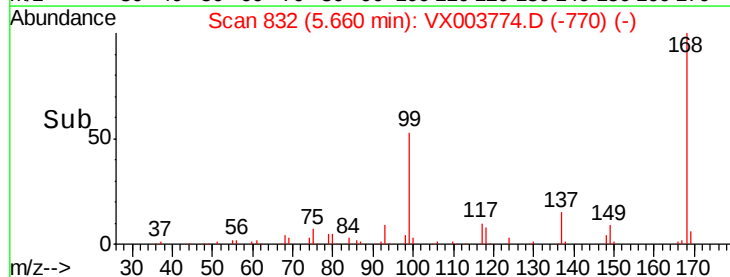
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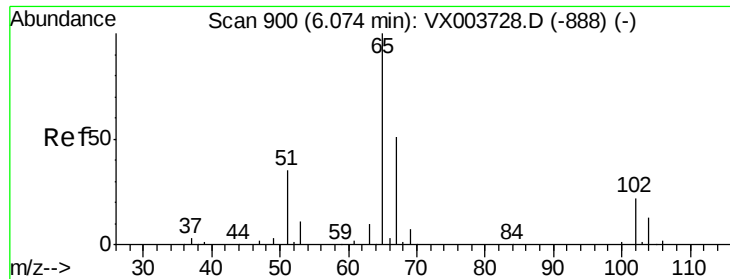
1000

500

0

Time--> 5.60 5.65 5.70 5.75

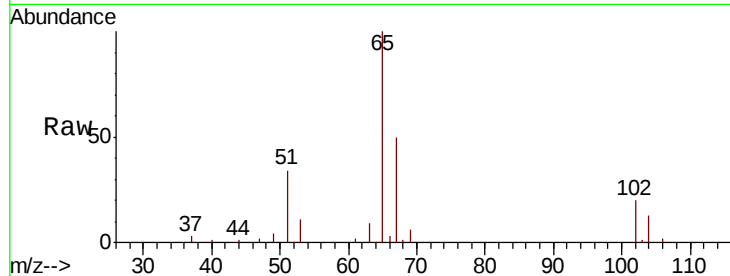




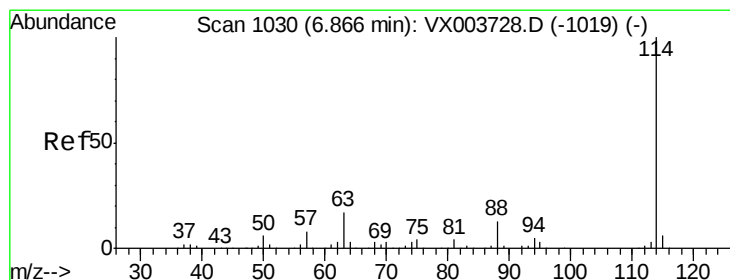
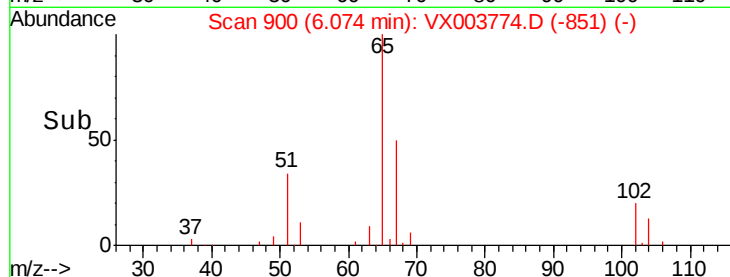
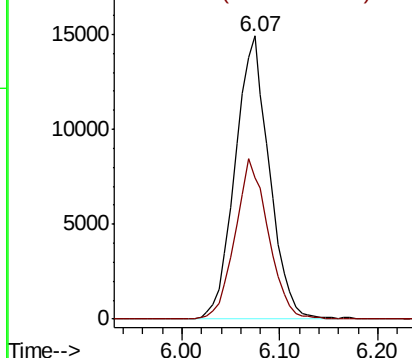
#33
 1,2-Dichloroethane-d4
 Concen: 36.29 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX003774.D
 Acq: 01 Aug 2018 03:04

Instrument :
 MSVOA_X
 ClientSampleId :
 CON-SB-03-11-13

Tot Ion: 65 Resp: 36201
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 107.0

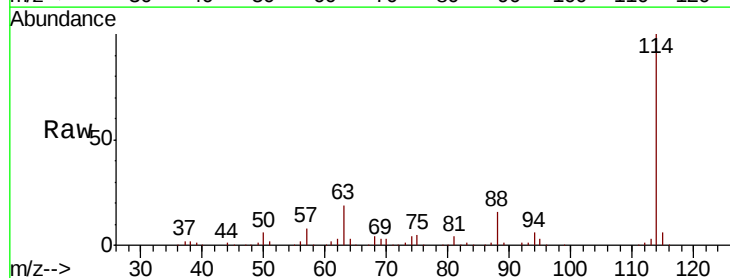


Abundance Ion 64.90 (64.60 to 65.60): VX0
 Ion 66.90 (66.60 to 67.60): VX0

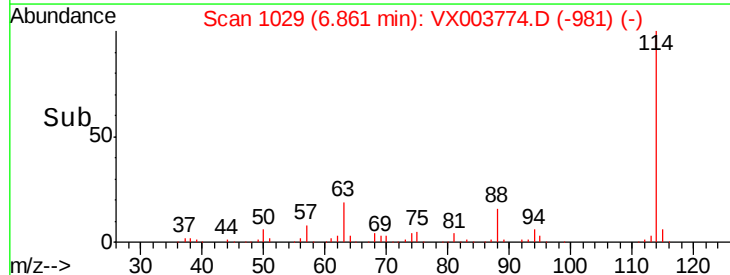
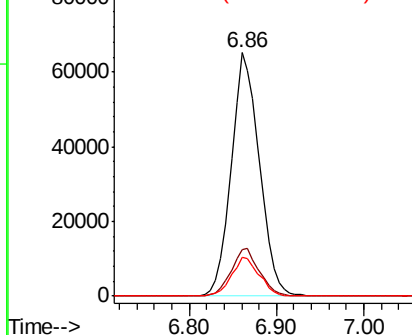


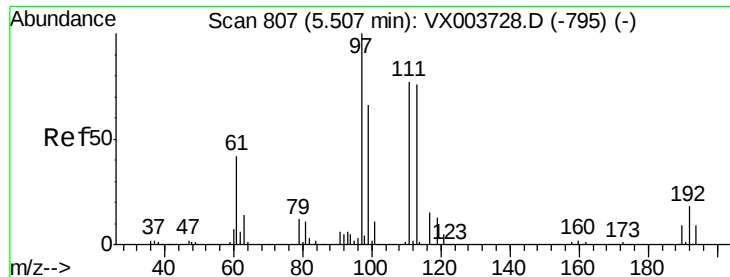
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VX003774.D
 Acq: 01 Aug 2018 03:04

Tgt Ion: 114 Resp: 145601
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 34.0
 88 16.0 0.0 26.4



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: 41.45 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003774.D

Acq: 01 Aug 2018 03:04

Instrument :

MSVOA_X

ClientSampleId :

CON-SB-03-11-13

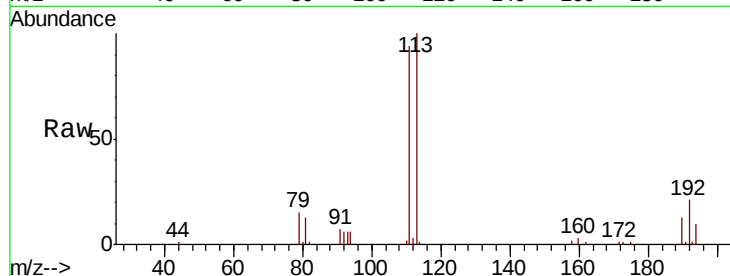
Tot Ion:113 Resp: 35538

Ion Ratio Lower Upper

113 100

111 104.9 81.8 122.6

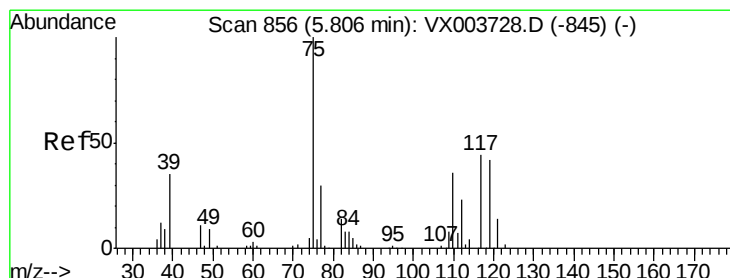
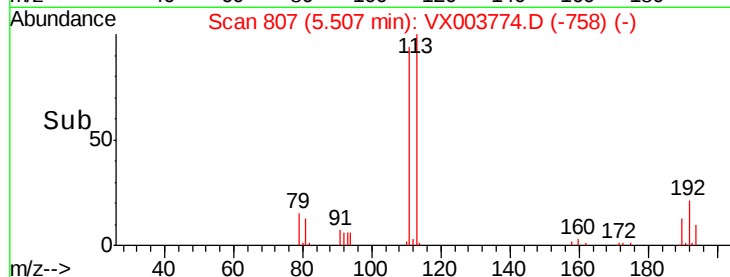
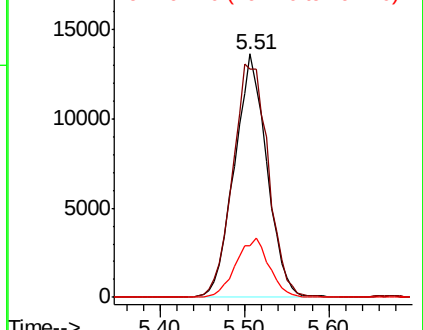
192 24.8 18.8 28.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.73 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX003774.D

Acq: 01 Aug 2018 03:04

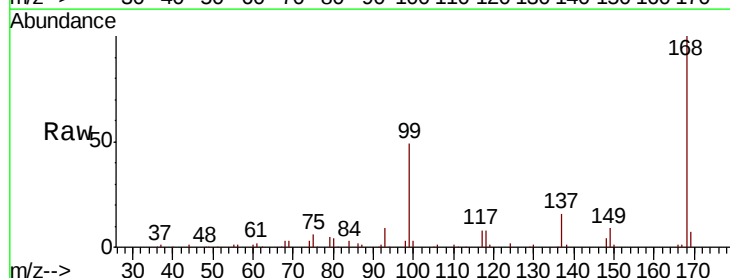
Tgt Ion: 75 Resp: 6448

Ion Ratio Lower Upper

75 100

110 9.6 18.3 54.8#

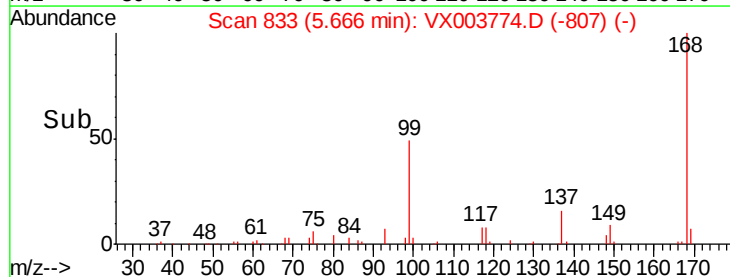
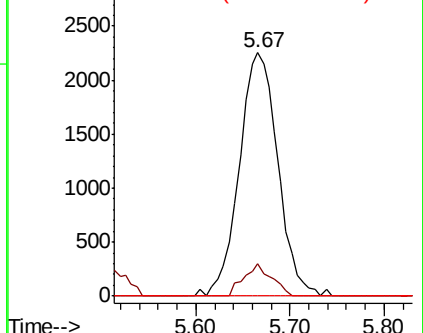
77 0.0 25.1 37.7#

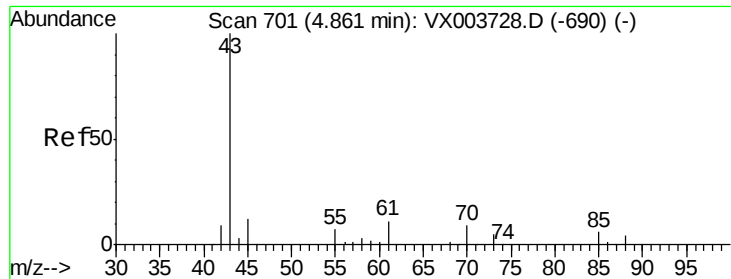


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

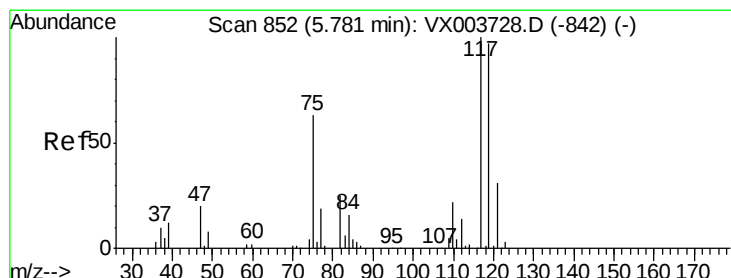
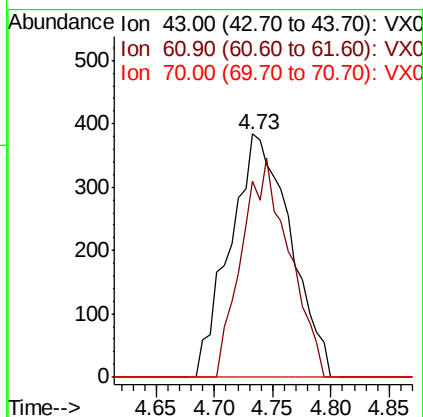
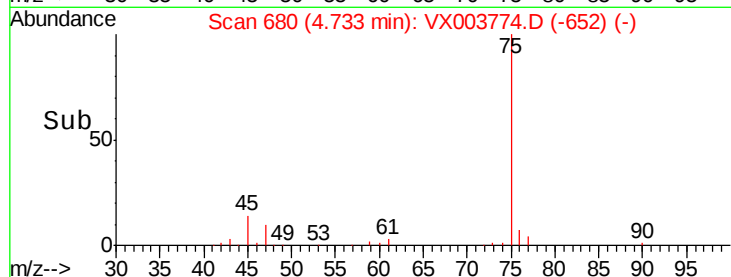
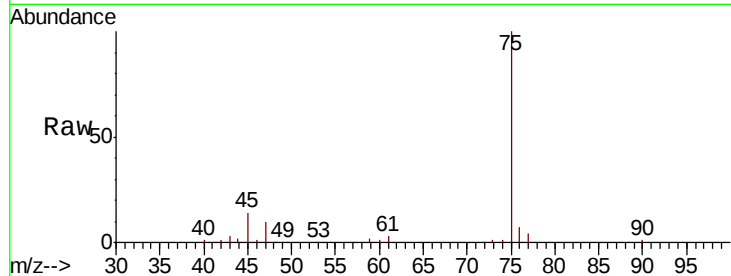




#37
Ethyl Acetate
Concen: 1.32 ug/l
RT: 4.73 min Scan# 680
Delta R.T. -0.13 min
Lab File: VX003774.D
Acq: 01 Aug 2018 03:04

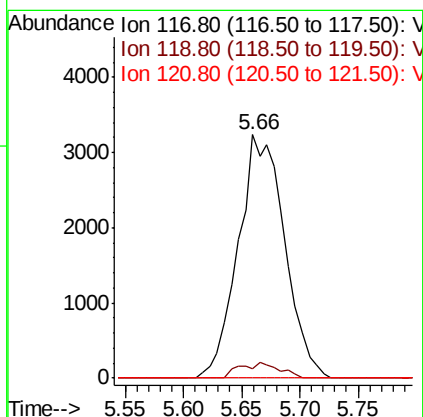
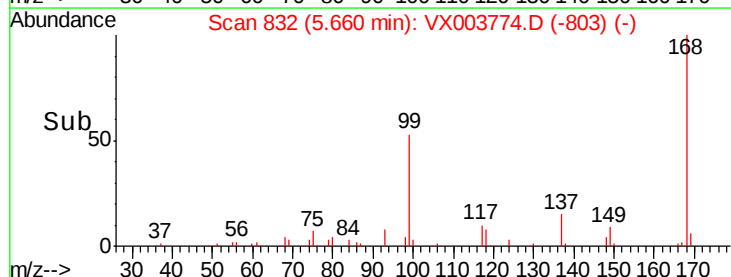
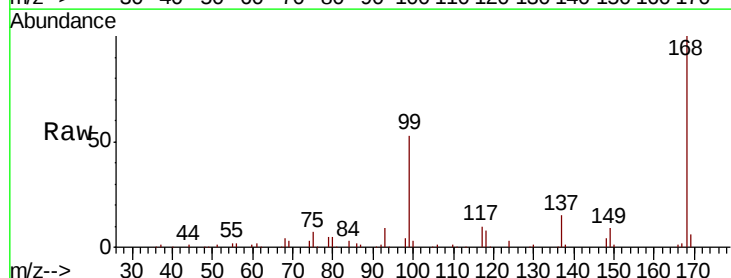
Instrument :
MSVOA_X
ClientSampleId :
CON-SB-03-11-13

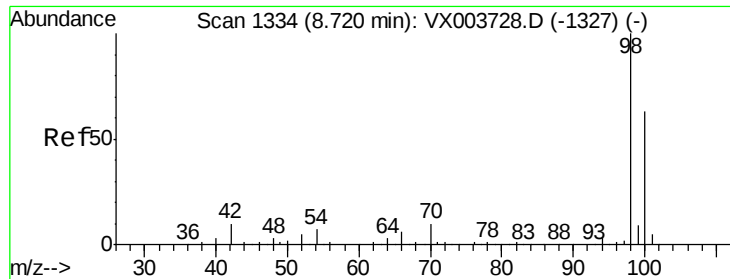
Tot Ion: 43 Resp: 1382
Ion Ratio Lower Upper
43 100
61 70.9 11.4 17.0#
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: 7.12 ug/l
RT: 5.66 min Scan# 832
Delta R.T. -0.12 min
Lab File: VX003774.D
Acq: 01 Aug 2018 03:04

Tgt Ion: 117 Resp: 8978
Ion Ratio Lower Upper
117 100
119 4.1 77.2 115.8#
121 0.0 25.0 37.4#





#50

Toluene-d8

Concen: 36.46 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003774.D

Acq: 01 Aug 2018 03:04

Instrument :

MSVOA_X

ClientSampleId :

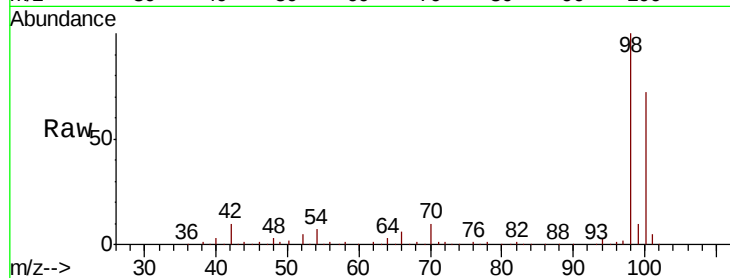
CON-SB-03-11-13

Tot Ion: 98 Resp: 130313

Ion Ratio Lower Upper

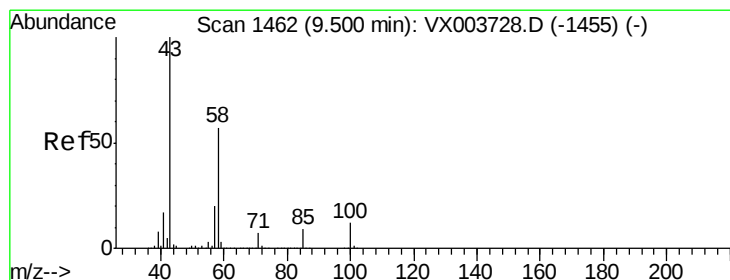
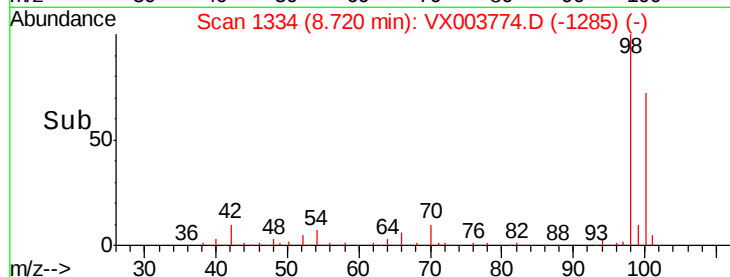
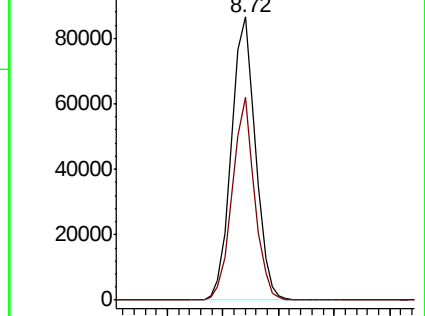
98 100

100 65.9 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#59

2-Hexanone

Concen: 0.21 ug/l

RT: 9.35 min Scan# 1437

Delta R.T. -0.15 min

Lab File: VX003774.D

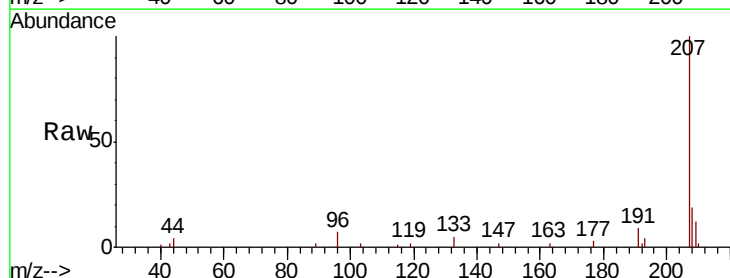
Acq: 01 Aug 2018 03:04

Tgt Ion: 43 Resp: 161

Ion Ratio Lower Upper

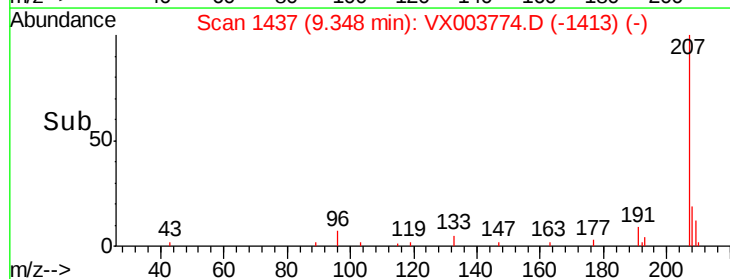
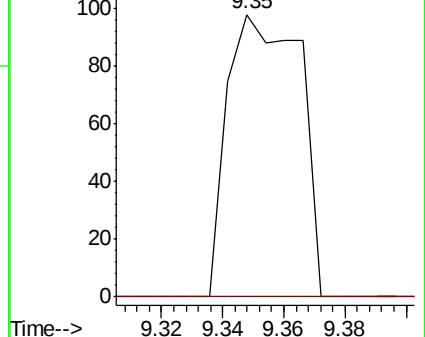
43 100

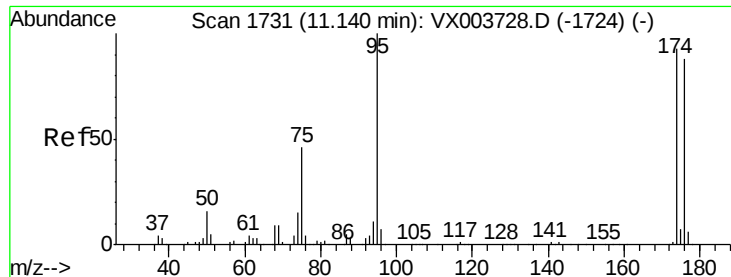
58 0.0 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

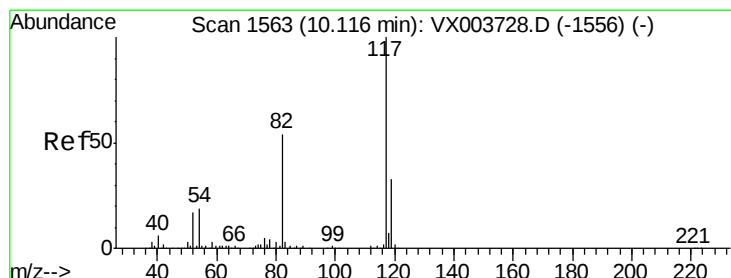
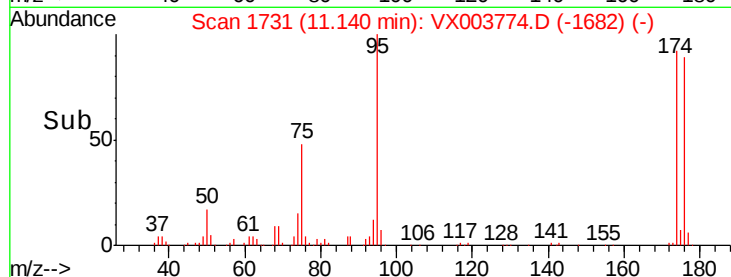
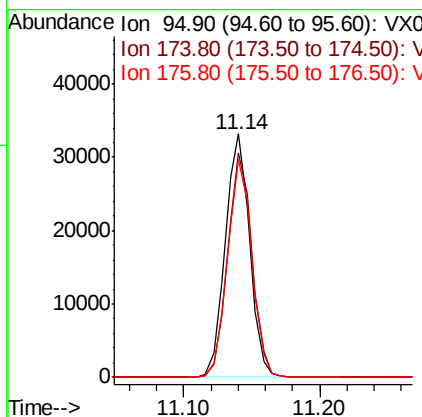
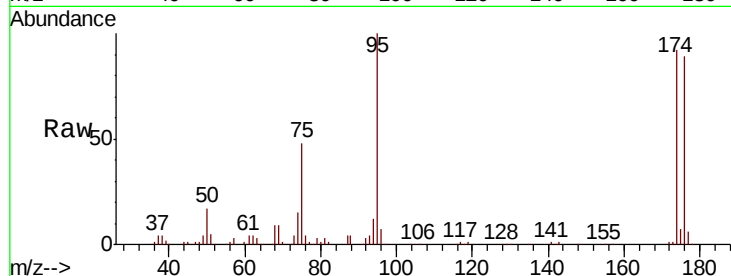




#62
4-Bromofluorobenzene
Concen: 31.24 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003774.D
Acq: 01 Aug 2018 03:04

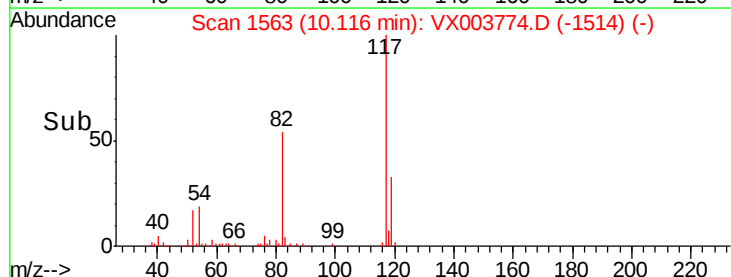
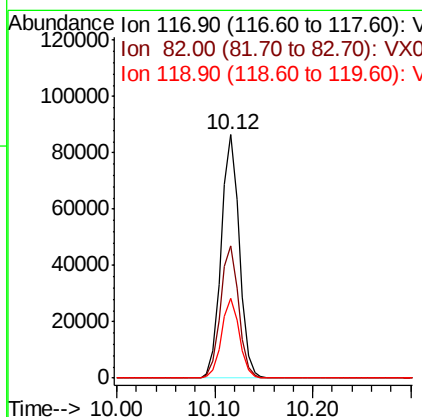
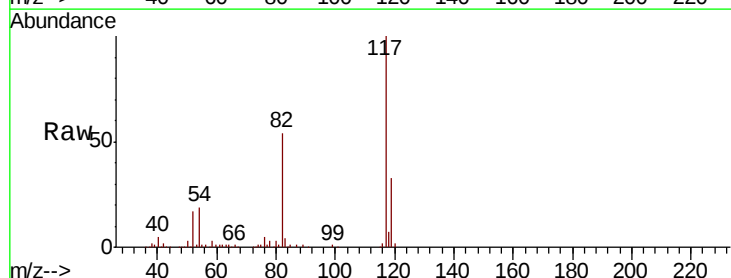
Instrument :
MSVOA_X
ClientSampleId :
CON-SB-03-11-13

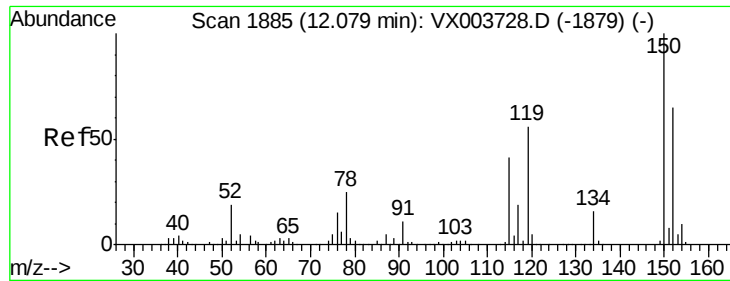
Tot Ion: 95 Resp: 41173
Ion Ratio Lower Upper
95 100
174 92.0 0.0 186.2
176 89.1 0.0 179.2



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003774.D
Acq: 01 Aug 2018 03:04

Tgt Ion: 117 Resp: 111154
Ion Ratio Lower Upper
117 100
82 54.1 43.2 64.8
119 33.0 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003774.D

Acq: 01 Aug 2018 03:04

Instrument :

MSVOA_X

ClientSampleId :

CON-SB-03-11-13

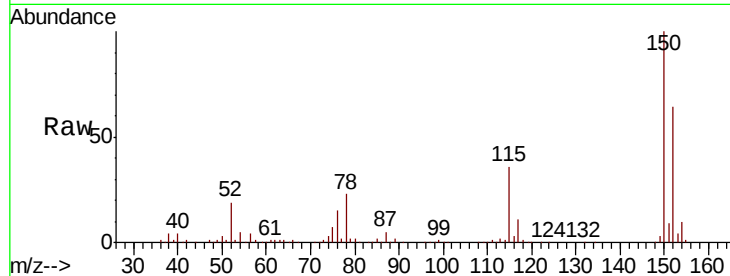
Tot Ion:152 Resp: 49245

Ion Ratio Lower Upper

152 100

115 55.8 38.5 115.3

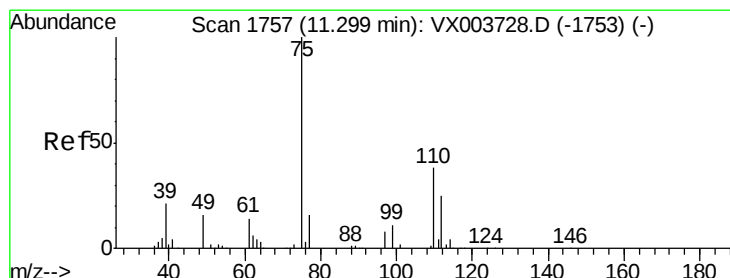
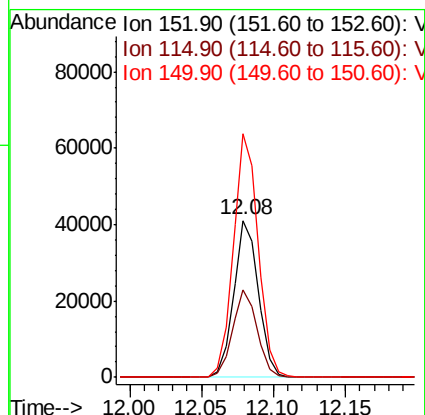
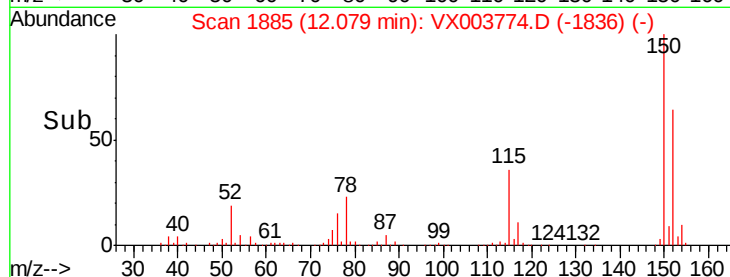
150 156.4 0.0 346.2



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: 28.68 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003774.D

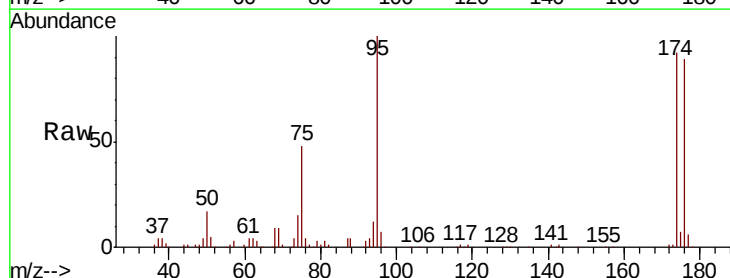
Acq: 01 Aug 2018 03:04

Tgt Ion: 75 Resp: 19468

Ion Ratio Lower Upper

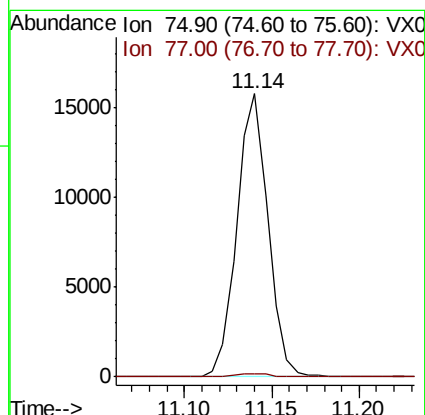
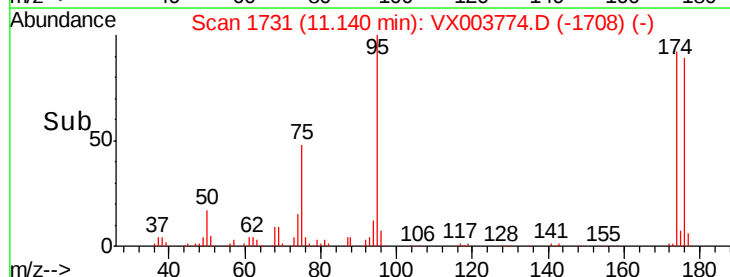
75 100

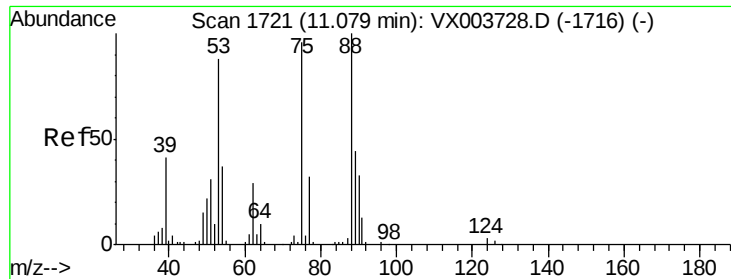
77 1.1 21.6 65.0#



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: 84.95 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003774.D

Acq: 01 Aug 2018 03:04

Instrument :

MSVOA_X

ClientSampleId :

CON-SB-03-11-13

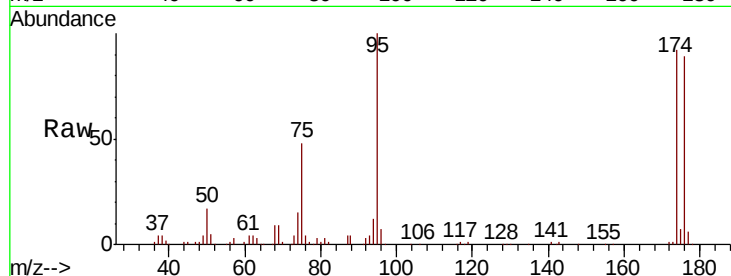
Tot Ion: 75 Resp: 19468

Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.8#

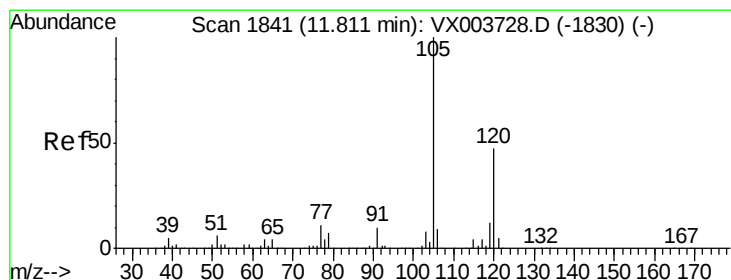
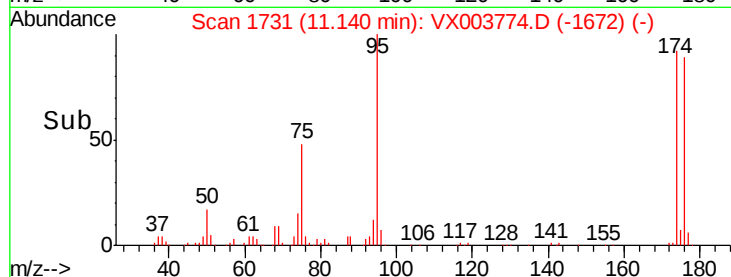
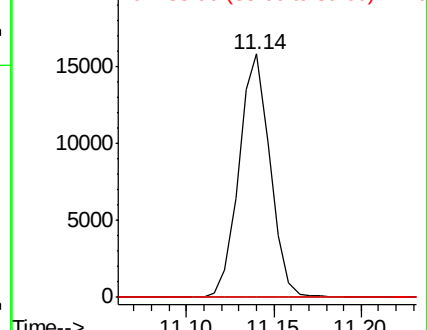
89 0.0 39.1 58.7#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.21 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX003774.D

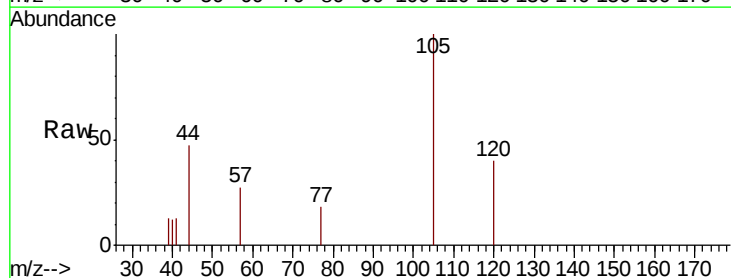
Acq: 01 Aug 2018 03:04

Tgt Ion:105 Resp: 563

Ion Ratio Lower Upper

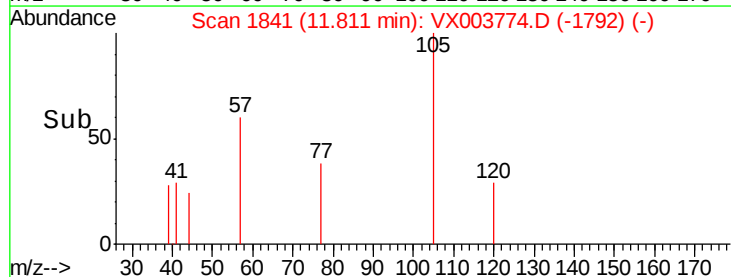
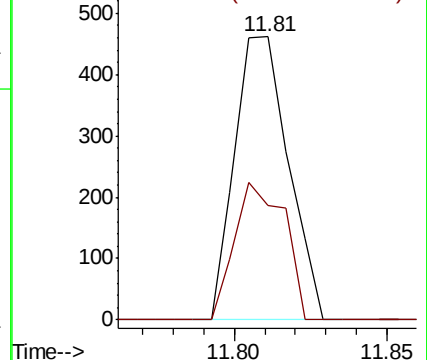
105 100

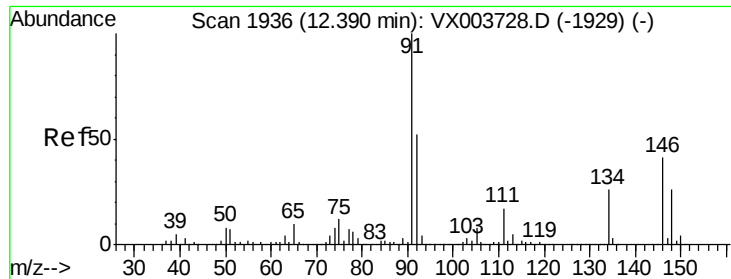
120 44.9 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#89

n-Butylbenzene

Concen: 0.22 ug/l

RT: 12.39 min Scan# 1936

Delta R.T. 0.00 min

Lab File: VX003774.D

Acq: 01 Aug 2018 03:04

Instrument :

MSVOA_X

ClientSampleId :

CON-SB-03-11-13

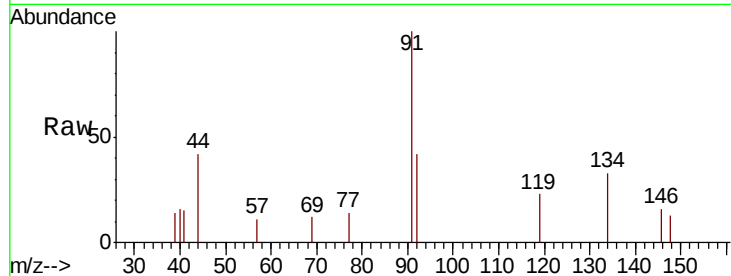
Tot Ion: 91 Resp: 622

Ion Ratio Lower Upper

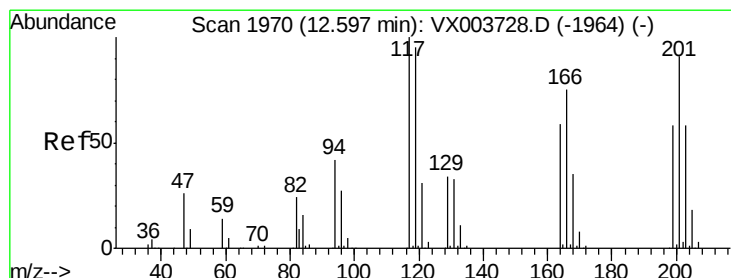
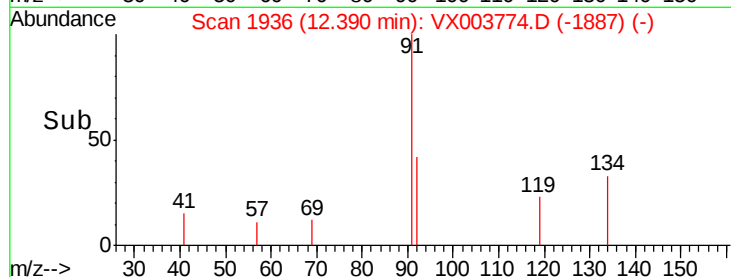
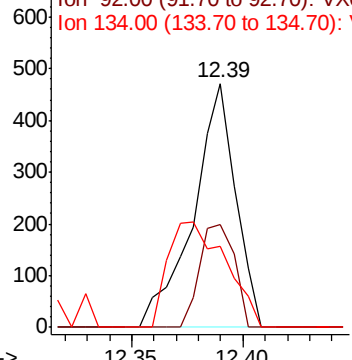
91 100

92 34.7 26.2 78.5

134 58.8 13.6 40.7#



Abundance Ion 91.00 (90.70 to 91.70): VX003774.D (-1887) (-)



#90

Hexachloroethane

Concen: 0.31 ug/l

RT: 12.70 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VX003774.D

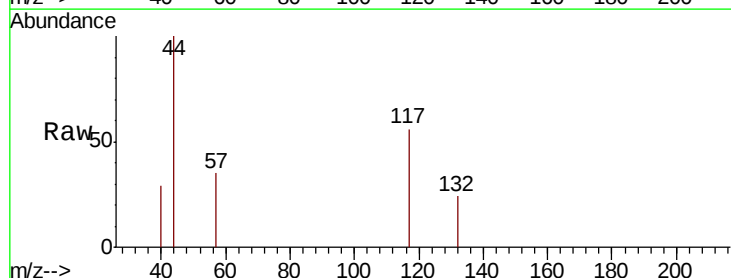
Acq: 01 Aug 2018 03:04

Tgt Ion: 117 Resp: 139

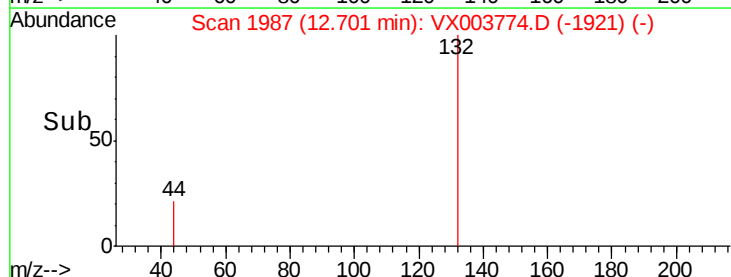
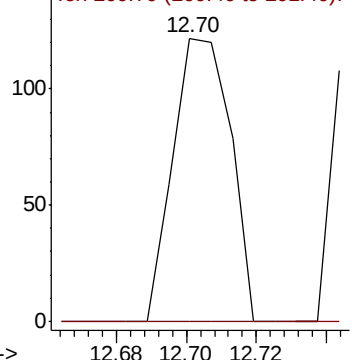
Ion Ratio Lower Upper

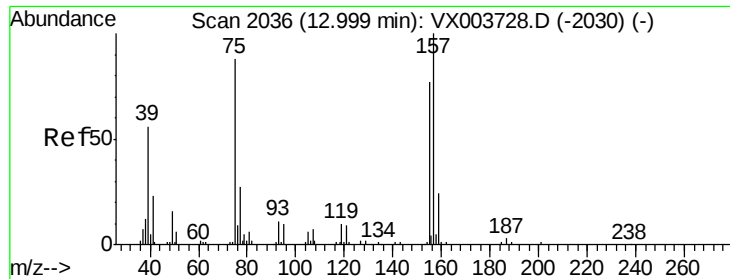
117 100

201 0.0 49.3 147.8#



Abundance Ion 116.80 (116.50 to 117.50): VX003774.D (-1921) (-)





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.75 ug/l

RT: 12.82 min Scan# 2006

Delta R.T. -0.18 min

Lab File: VX003774.D

Acq: 01 Aug 2018 03:04

Instrument :

MSVOA_X

ClientSampleId :

CON-SB-03-11-13

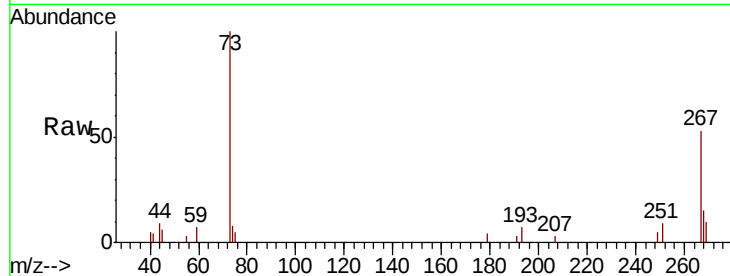
Tot Ion: 75 Resp: 119

Ion Ratio Lower Upper

75 100

155 0.0 48.9 146.7#

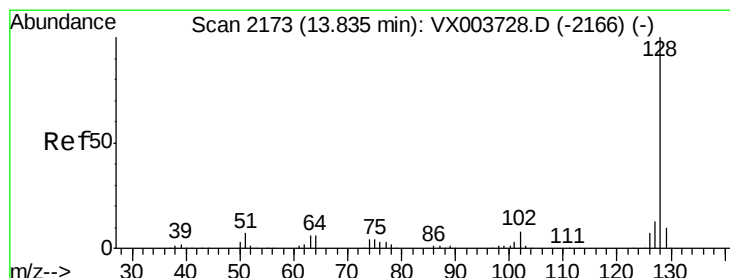
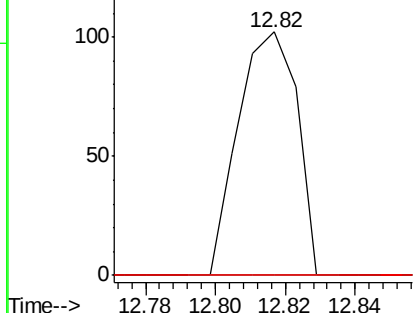
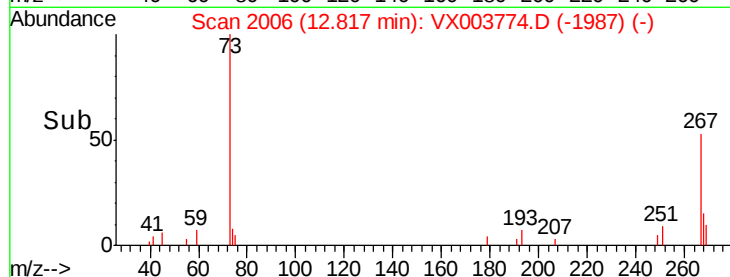
157 0.0 63.7 191.1#



Abundance Ion 74.90 (74.60 to 75.60): VX003774.D (-1987) (-)

Ion 154.80 (154.50 to 155.50): VX003774.D (-1987) (-)

Ion 156.80 (156.50 to 157.50): VX003774.D (-1987) (-)



#95

Naphthalene

Concen: 2.47 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX003774.D

Acq: 01 Aug 2018 03:04

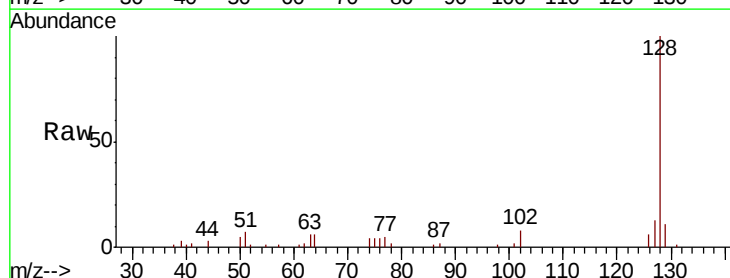
Tgt Ion: 128 Resp: 6342

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.2

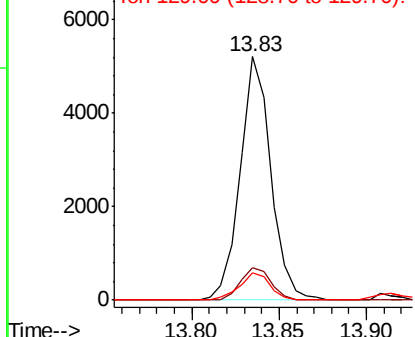
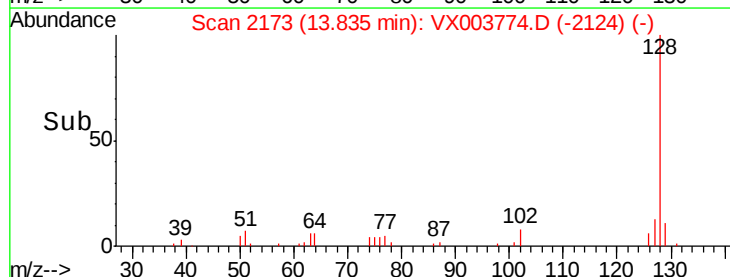
129 11.1 8.7 13.1

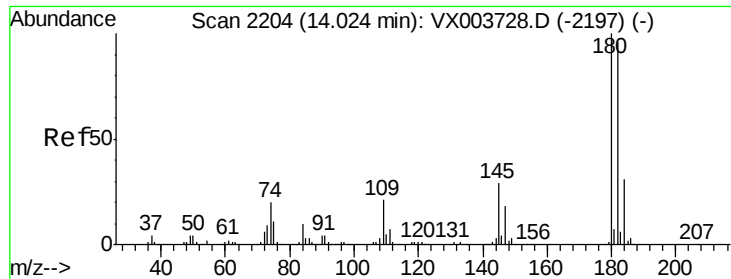


Abundance Ion 128.00 (127.70 to 128.70): VX003774.D (-2124) (-)

Ion 127.00 (126.70 to 127.70): VX003774.D (-2124) (-)

Ion 129.00 (128.70 to 129.70): VX003774.D (-2124) (-)





#96
 1,2,3-Trichlorobenzene
 Concen: 0.23 ug/l
 RT: 14.02 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VX003774.D
 Acq: 01 Aug 2018 03:04

Instrument :
 MSVOA_X
 ClientSampleId :
 CON-SB-03-11-13

Tot Ion:180 Resp: 247
 Ion Ratio Lower Upper
 180 100
 182 66.4 47.9 143.8
 145 122.3 14.7 44.1#

