

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101719\
 Data File : VX013116.D
 Acq On : 17 Oct 2019 18:41
 Operator : JC/SP
 Sample : K5414-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RB-02-SRI4

Quant Time: Oct 18 08:05:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 07:26:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	174018	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	280280	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	236784	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	94893	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	106070	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	
35) Dibromofluoromethane	5.49	113	83377	51.83	ug/l	0.00
Spiked Amount			Recovery	=	103.66%	
50) Toluene-d8	8.71	98	325658	51.90	ug/l	0.00
Spiked Amount			Recovery	=	103.80%	
62) 4-Bromofluorobenzene	11.14	95	110057	45.14	ug/l	0.00
Spiked Amount			Recovery	=	90.28%	

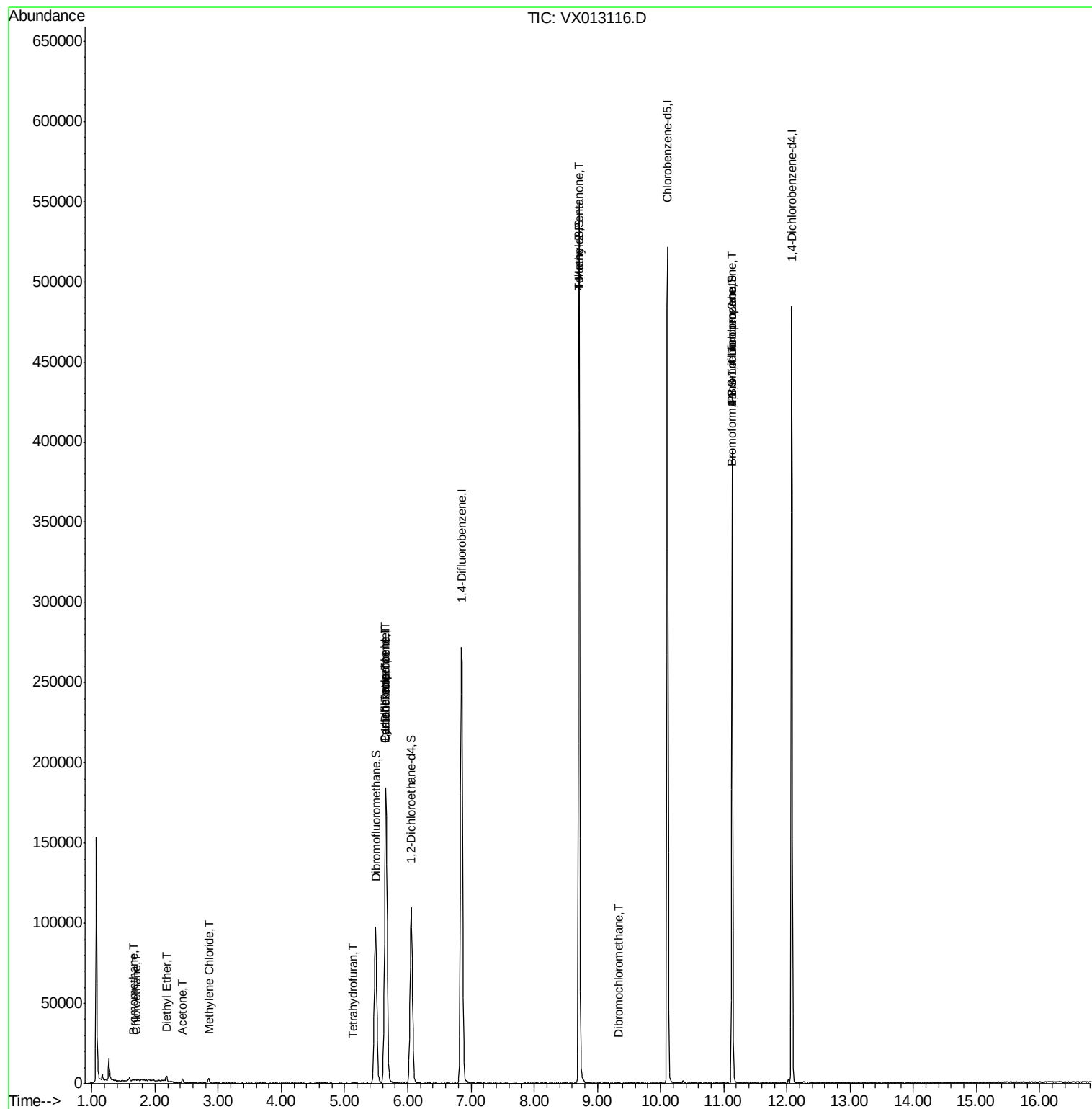
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	203	0.245	ug/l #	61
6) Chloroethane	1.70	64	281	0.597	ug/l	95
8) Diethyl Ether	2.18	74	1109	1.022	ug/l	88
16) Acetone	2.43	43	2143	1.869	ug/l	99
20) Methylene Chloride	2.84	84	1515	0.719	ug/l	94
29) Tetrahydrofuran	5.13	42	208	0.213	ug/l #	32
31) Cyclohexane	5.65	56	3541	1.122	ug/l #	7
36) 1,1-Dichloropropene	5.65	75	13549	5.498	ug/l #	51
38) Carbon Tetrachloride	5.65	117	17231	7.184	ug/l #	16
51) 4-Methyl-2-Pentanone	8.71	43	1350	0.490	ug/l #	1
60) Dibromochloromethane	9.32	129	56	1.883	ug/l #	10
71) Bromoform	11.12	173	116	3.211	ug/l #	29
76) 1,2,3-Trichloropropane	11.14	75	54156	25.731	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	54156	64.846	ug/l #	10

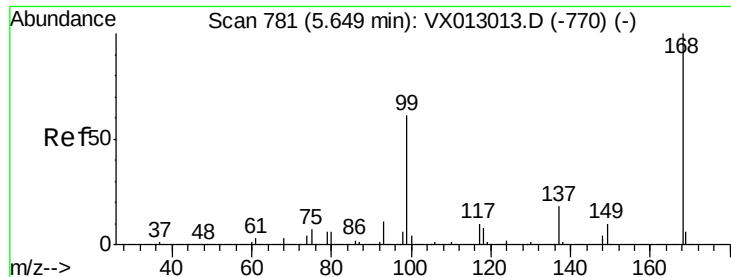
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 18 08:05:26 2019
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Quant Title : SW846 8260
QLast Update : Wed Oct 16 07:26:22 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013116.D

Acq: 17 Oct 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

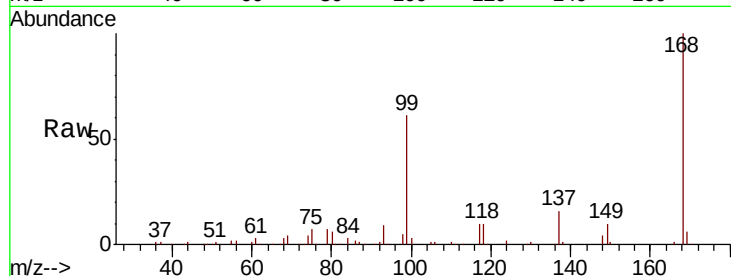
RB-02-SRI4

Tot Ion:168 Resp: 174018

Ion Ratio Lower Upper

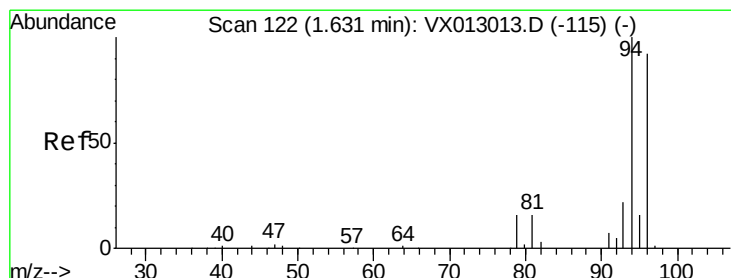
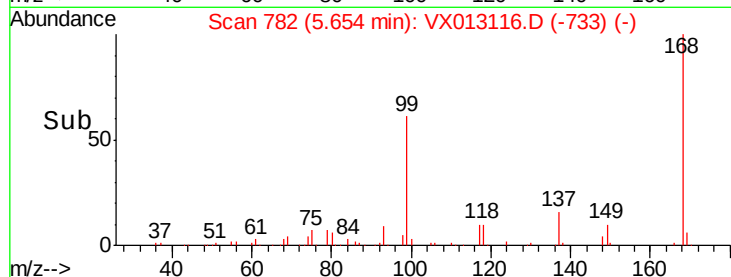
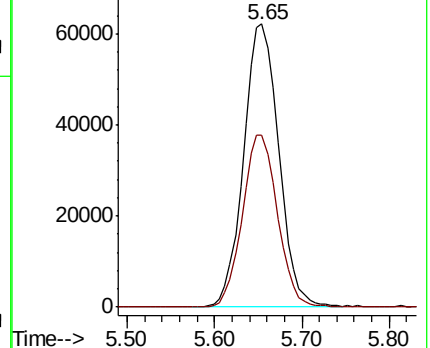
168 100

99 60.6 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.245 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX013116.D

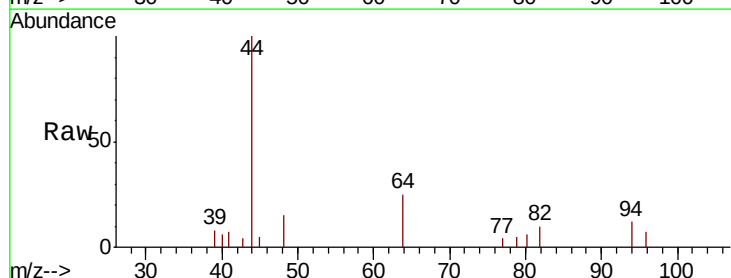
Acq: 17 Oct 2019 18:41

Tgt Ion: 94 Resp: 203

Ion Ratio Lower Upper

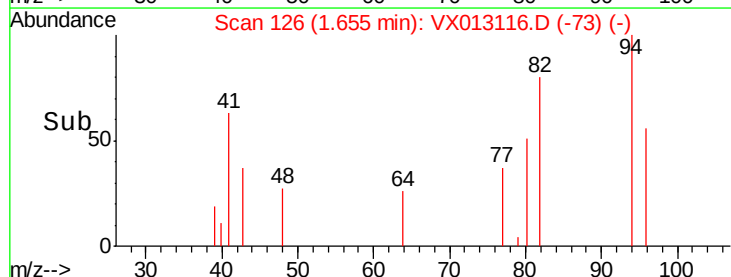
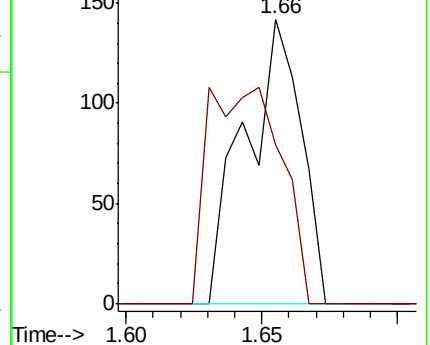
94 100

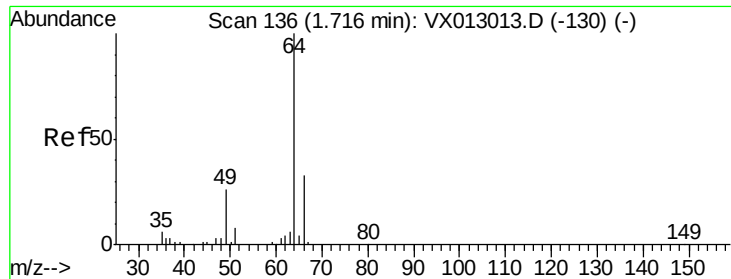
96 55.6 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.597 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX013116.D

Acq: 17 Oct 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

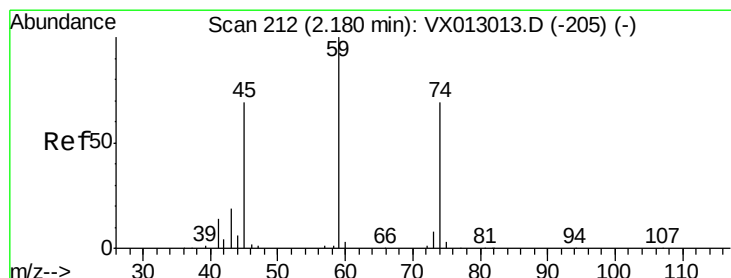
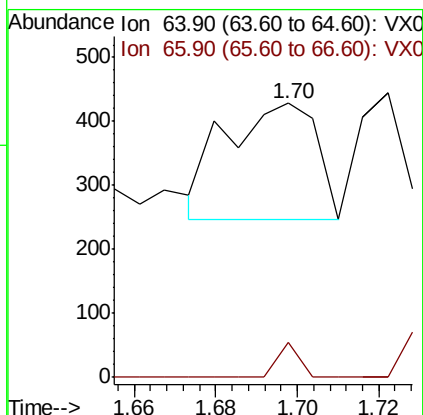
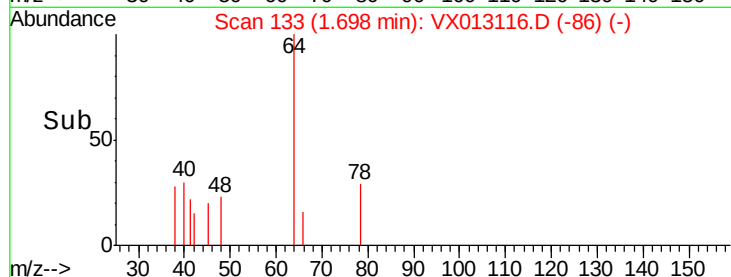
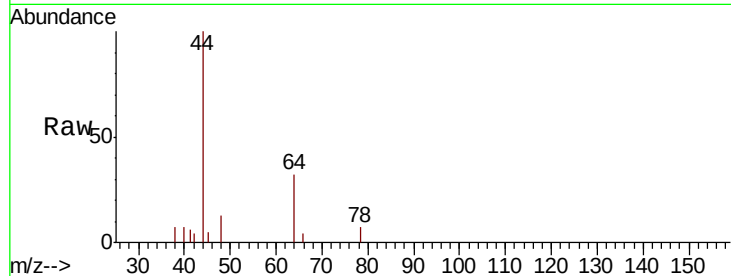
RB-02-SRI4

Tot Ion: 64 Resp: 281

Ion Ratio Lower Upper

64 100

66 29.3 25.6 38.4



#8

Diethyl Ether

Concen: 1.022 ug/l

RT: 2.18 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX013116.D

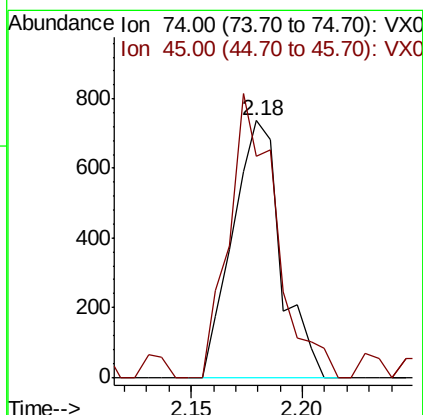
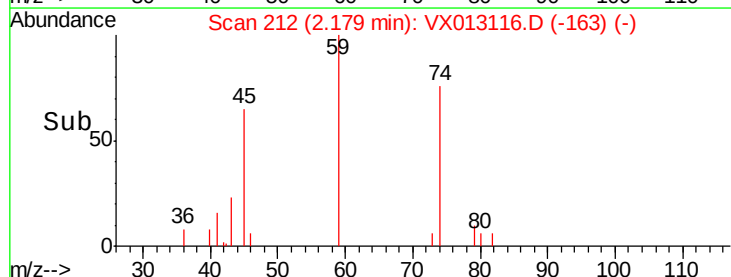
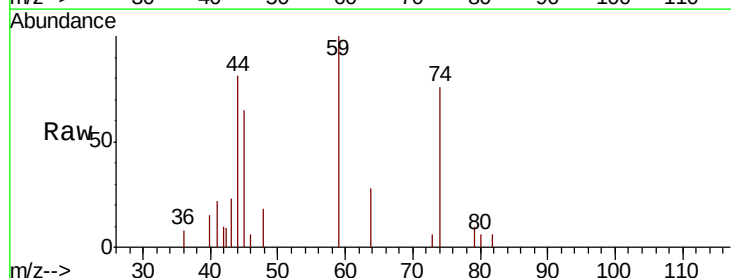
Acq: 17 Oct 2019 18:41

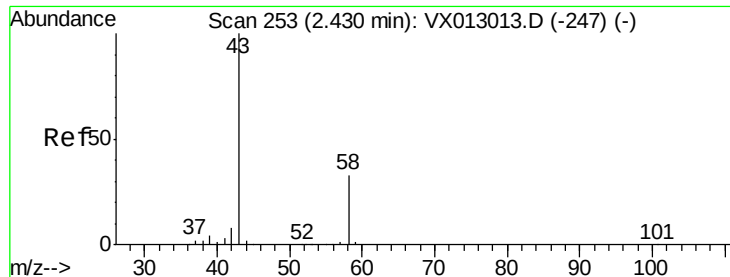
Tgt Ion: 74 Resp: 1109

Ion Ratio Lower Upper

74 100

45 107.8 47.8 143.4





#16

Acetone

Concen: 1.869 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013116.D

Acq: 17 Oct 2019 18:41

Instrument :

MSVOA_X

ClientSampled :

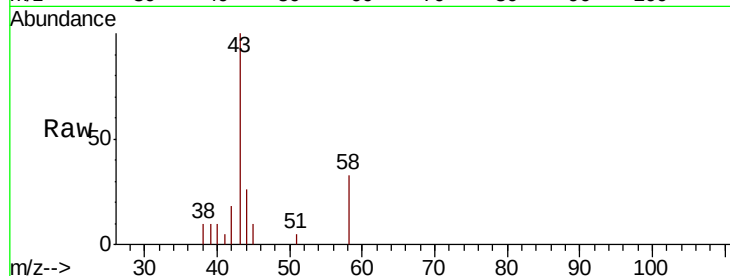
RB-02-SRI4

Tot Ion: 43 Resp: 2143

Ion Ratio Lower Upper

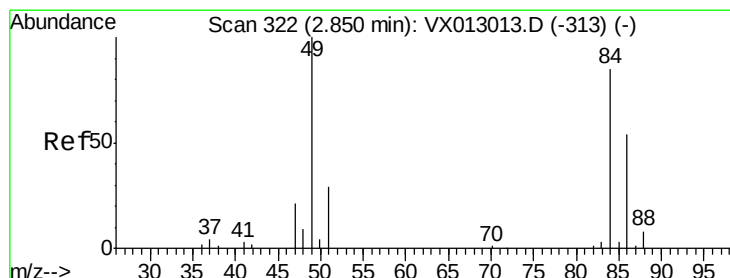
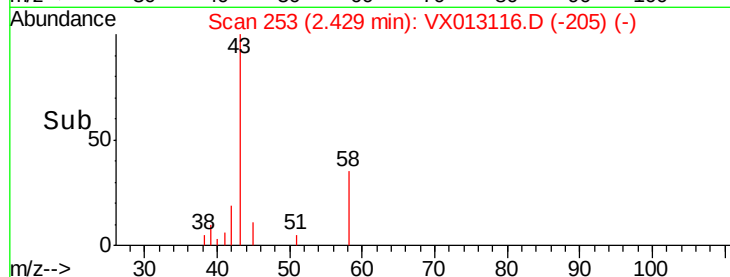
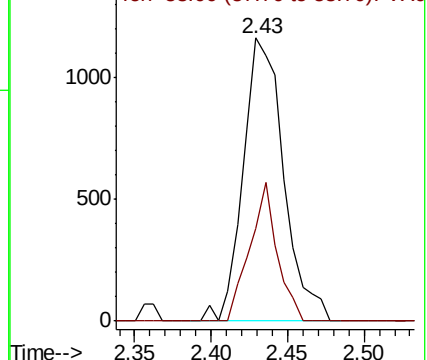
43 100

58 32.6 25.4 38.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 0.719 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.01 min

Lab File: VX013116.D

Acq: 17 Oct 2019 18:41

Tgt Ion: 84 Resp: 1515

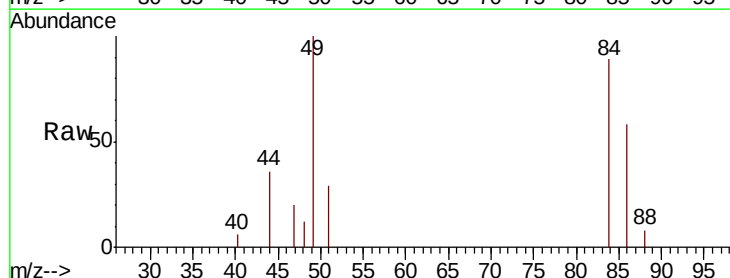
Ion Ratio Lower Upper

84 100

49 112.6 96.6 144.8

51 33.1 30.7 46.1

86 65.6 51.0 76.6

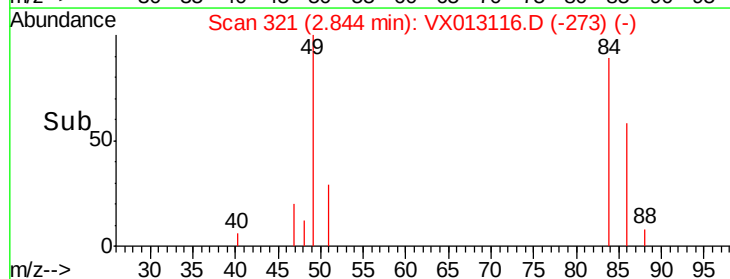
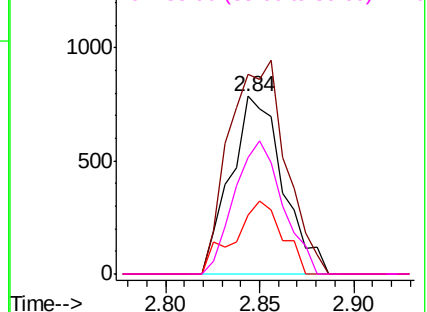


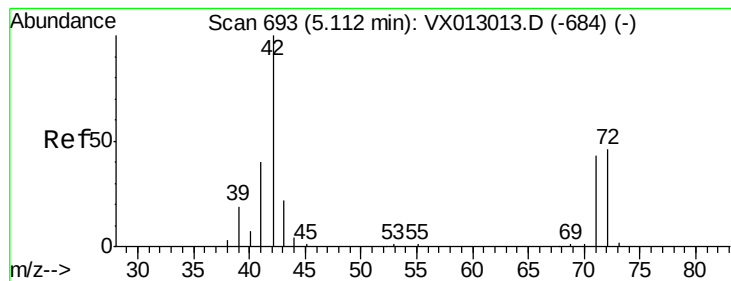
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#29

Tetrahydrofuran

Concen: 0.213 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.01 min

Lab File: VX013116.D

Acq: 17 Oct 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

RB-02-SRI4

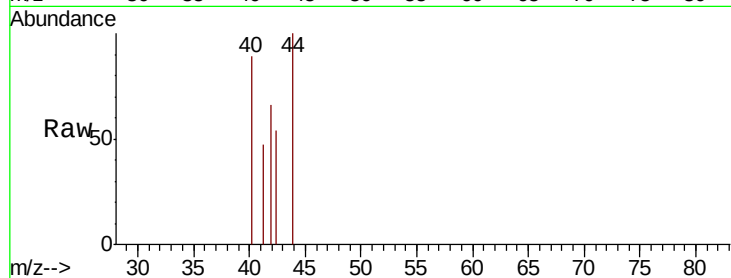
Tot Ion: 42 Resp: 208

Ion Ratio Lower Upper

42 100

72 0.0 36.9 55.3#

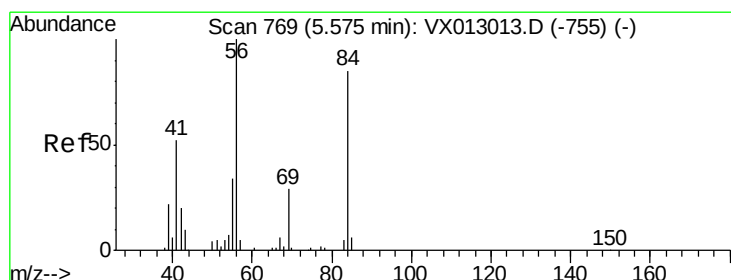
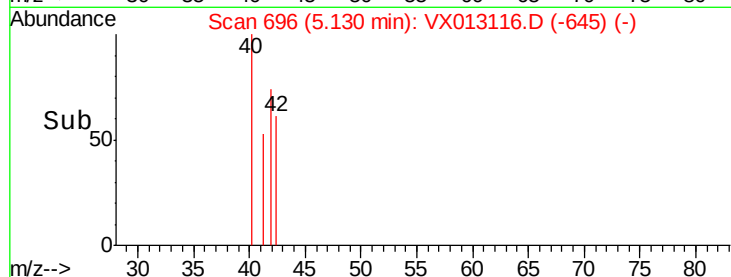
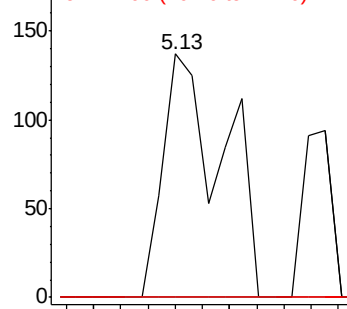
71 0.0 33.5 50.3#



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



#31

Cyclohexane

Concen: 1.122 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX013116.D

Acq: 17 Oct 2019 18:41

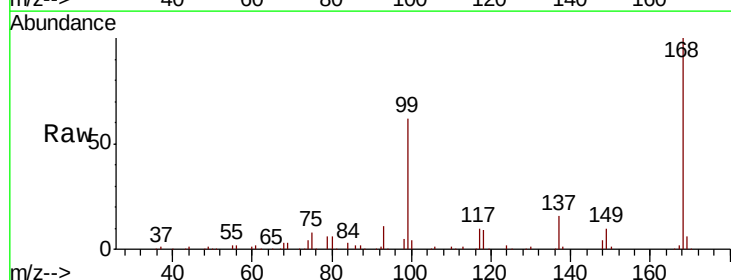
Tgt Ion: 56 Resp: 3541

Ion Ratio Lower Upper

56 100

69 166.2 25.2 37.8#

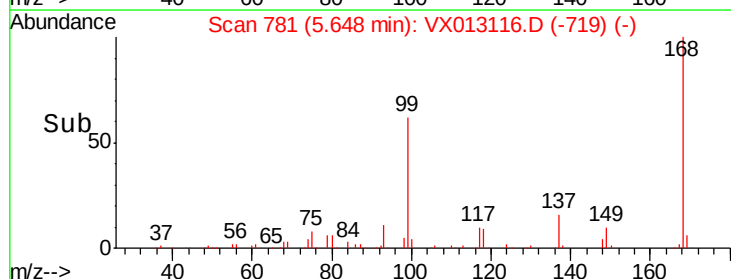
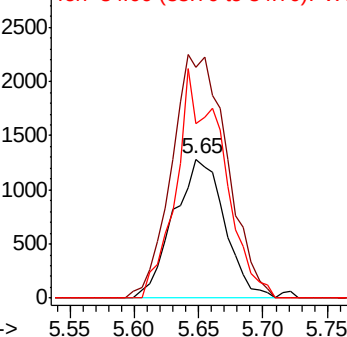
84 126.0 71.3 106.9#

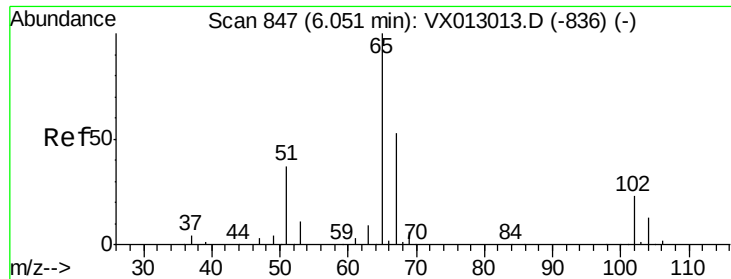


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

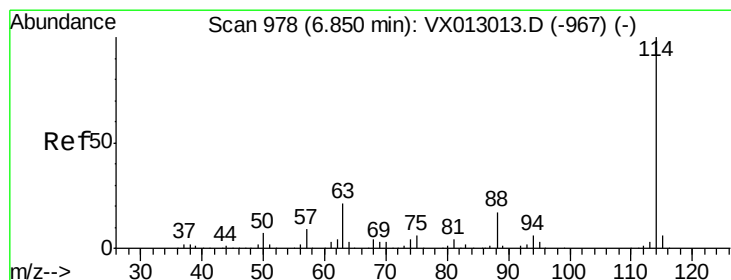
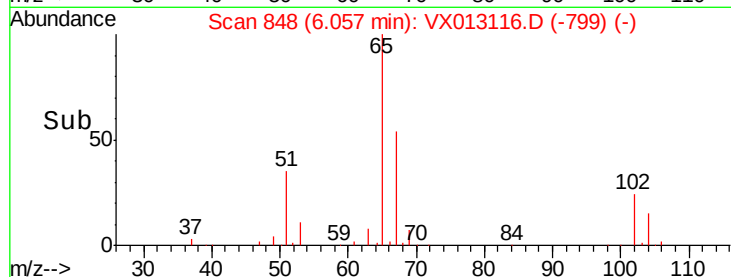
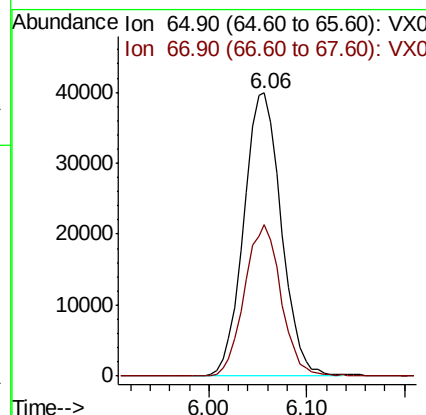
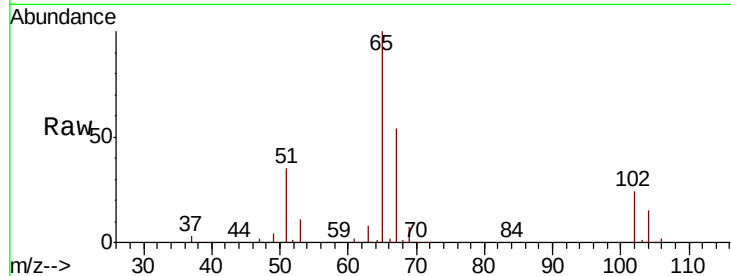




#33
 1,2-Dichloroethane-d4
 Concen: 48.768 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. -0.00 min
 Lab File: VX013116.D
 Acq: 17 Oct 2019 18:41

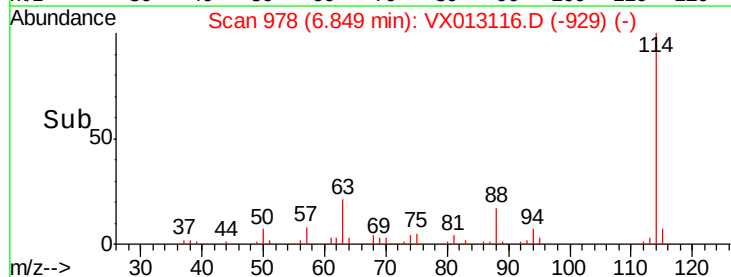
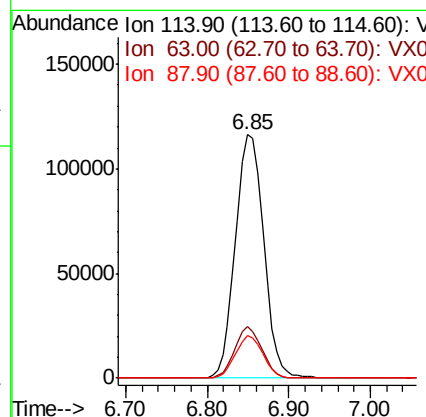
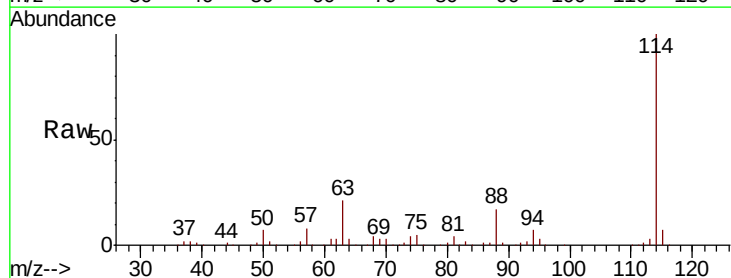
Instrument :
 MSVOA_X
 ClientSampleId :
 RB-02-SRI4

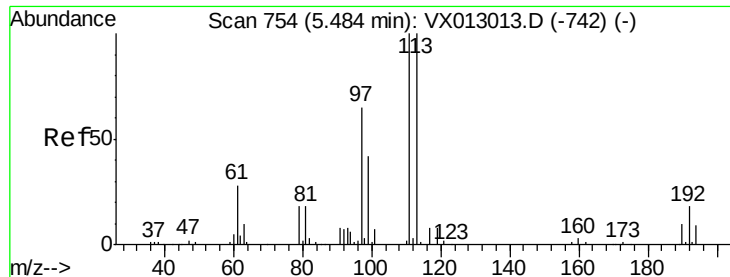
Tot Ion: 65 Resp: 106070
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013116.D
 Acq: 17 Oct 2019 18:41

Tgt Ion: 114 Resp: 280280
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 40.8
 88 17.5 0.0 33.8





#35

Dibromofluoromethane

Concen: 51.830 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013116.D

Acq: 17 Oct 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

RB-02-SRI4

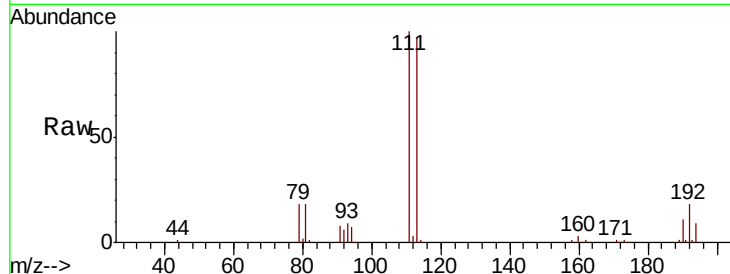
Tot Ion:113 Resp: 83377

Ion Ratio Lower Upper

113 100

111 103.1 83.2 124.8

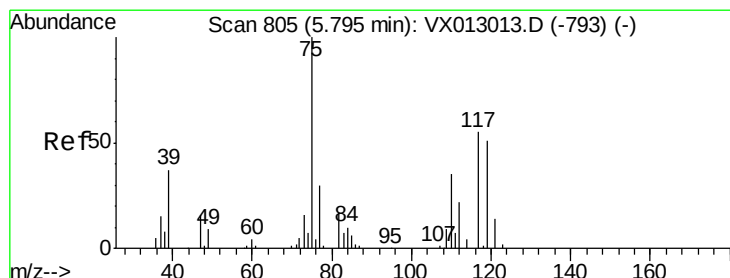
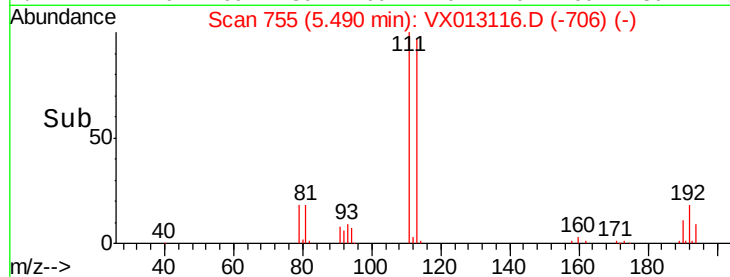
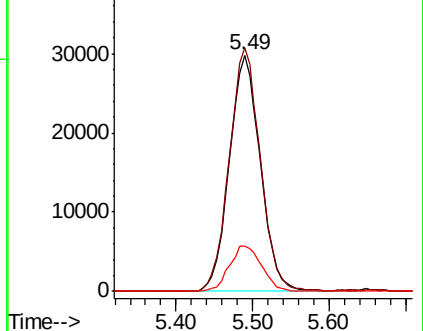
192 20.0 15.4 23.2



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: 5.498 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013116.D

Acq: 17 Oct 2019 18:41

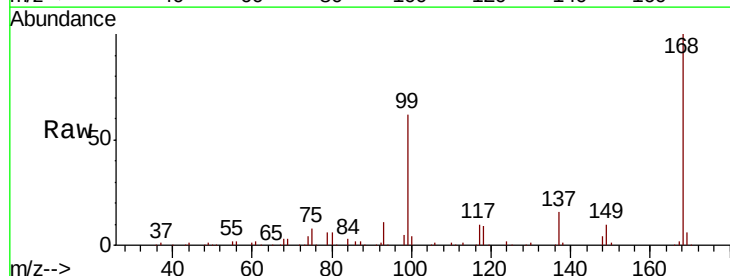
Tgt Ion: 75 Resp: 13549

Ion Ratio Lower Upper

75 100

110 10.2 17.6 52.9#

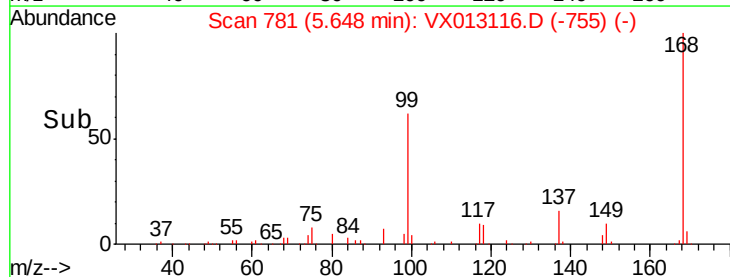
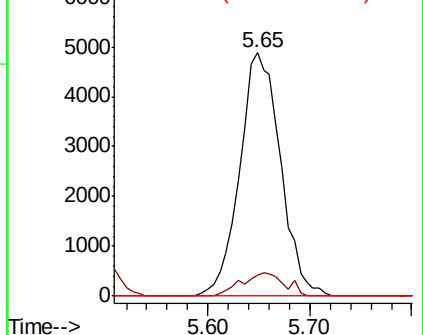
77 0.0 24.4 36.6#

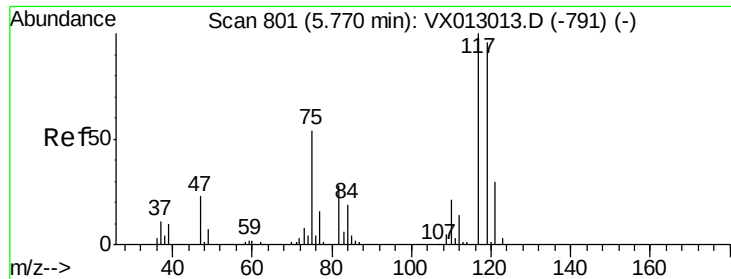


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

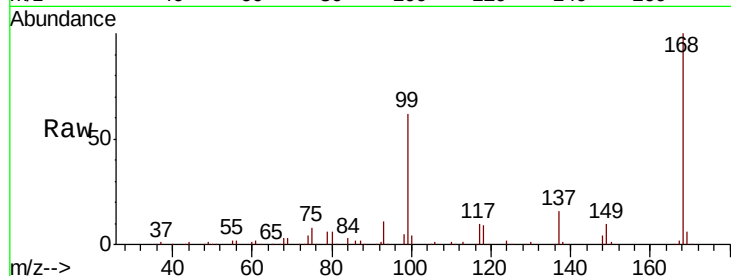




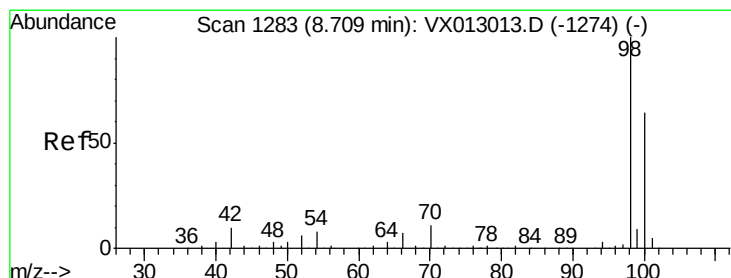
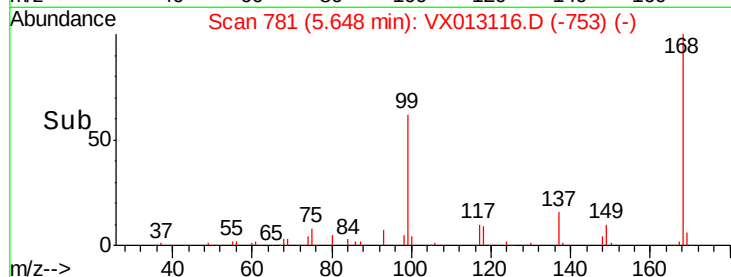
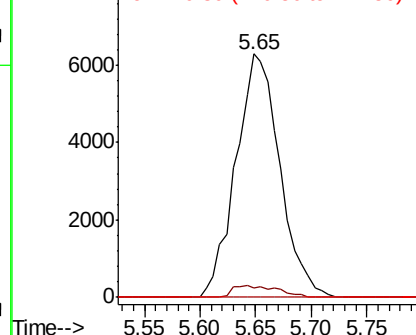
#38
Carbon Tetrachloride
Concen: 7.184 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX013116.D
Acq: 17 Oct 2019 18:41

Instrument :
MSVOA_X
ClientSampled :
RB-02-SRI4

Tot Ion:117 Resp: 17231
Ion Ratio Lower Upper
117 100
119 4.1 74.5 111.7#
121 0.0 24.2 36.4#

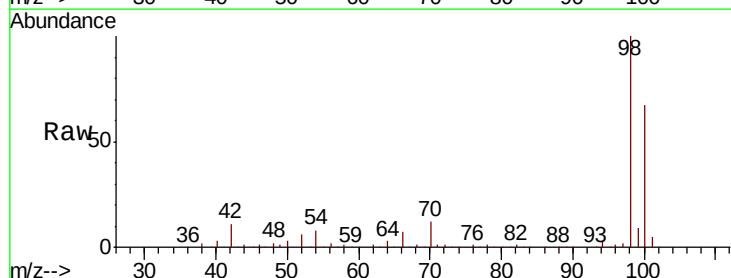


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

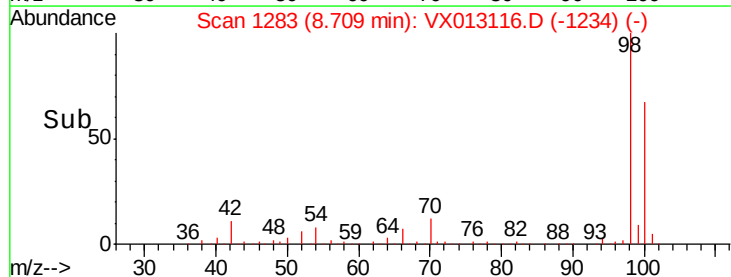
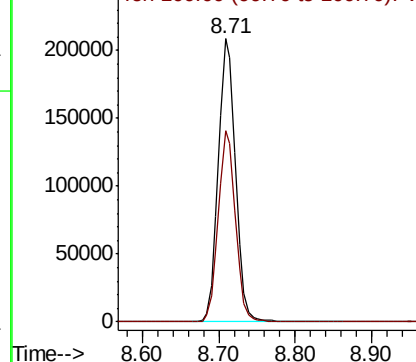


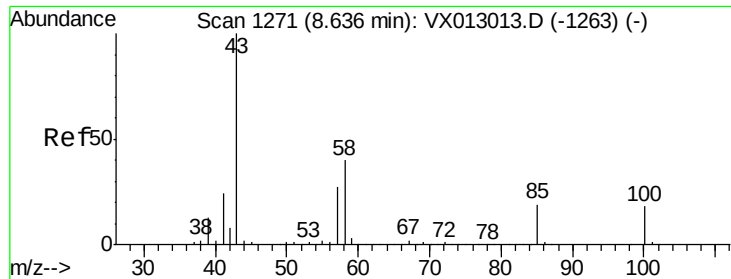
#50
Toluene-d8
Concen: 51.905 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013116.D
Acq: 17 Oct 2019 18:41

Tgt Ion: 98 Resp: 325658
Ion Ratio Lower Upper
98 100
100 67.4 53.4 80.2



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: 0.490 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX013116.D

Acq: 17 Oct 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

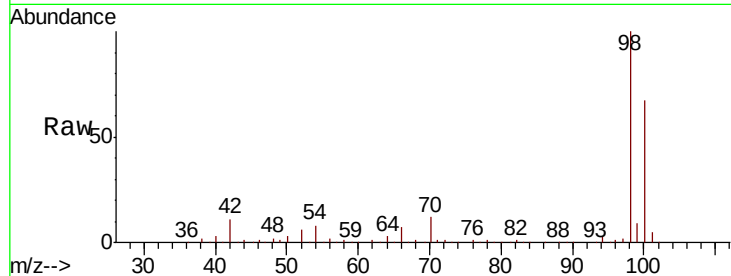
RB-02-SRI4

Tot Ion: 43 Resp: 1350

Ion Ratio Lower Upper

43 100

58 194.3 32.4 48.6#

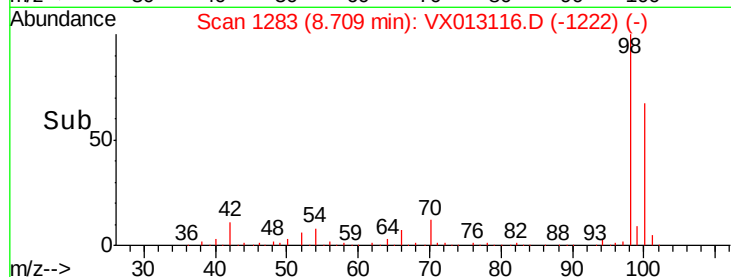


Abundance Ion 43.00 (42.70 to 43.70): VX013013.D (-1263) (-)

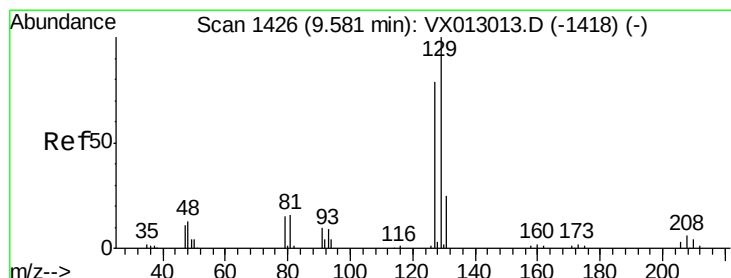
Ion 58.00 (57.70 to 58.70): VX013013.D (-1263) (-)

8.71

8.65 8.70 8.75



Time-->



#60

Dibromochloromethane

Concen: 1.883 ug/l

RT: 9.32 min Scan# 1384

Delta R.T. -0.26 min

Lab File: VX013116.D

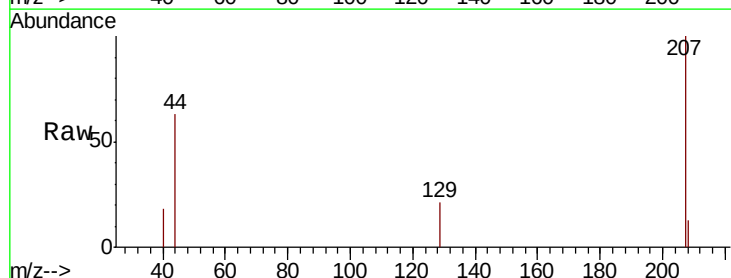
Acq: 17 Oct 2019 18:41

Tgt Ion: 129 Resp: 56

Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.7#

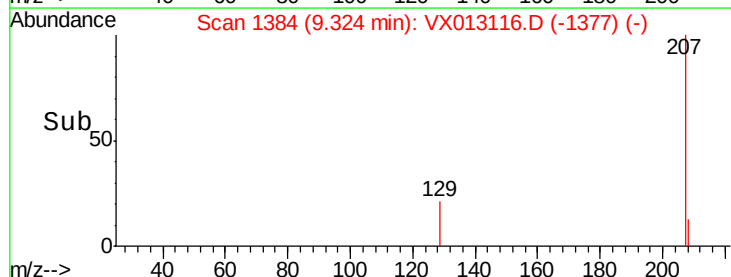


Abundance Ion 128.80 (128.50 to 129.50): VX013013.D (-1418) (-)

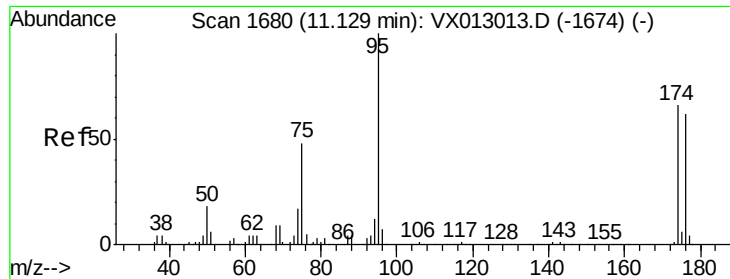
Ion 126.80 (126.50 to 127.50): VX013013.D (-1418) (-)

9.32

9.30 9.32 9.34



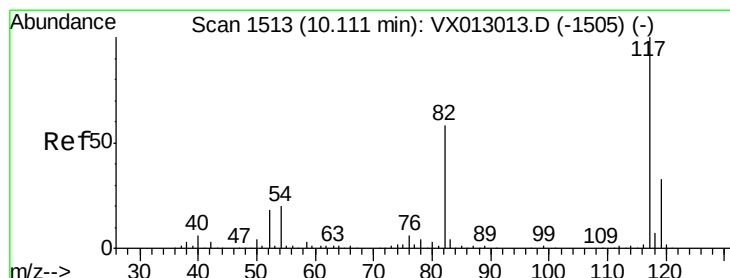
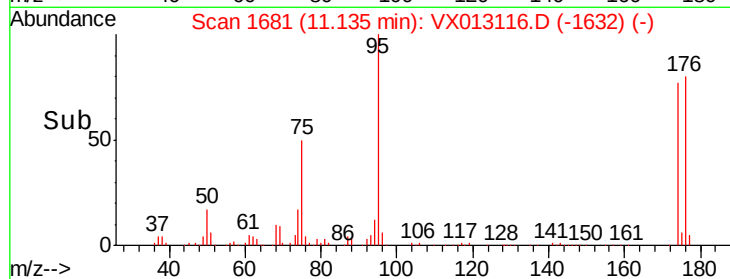
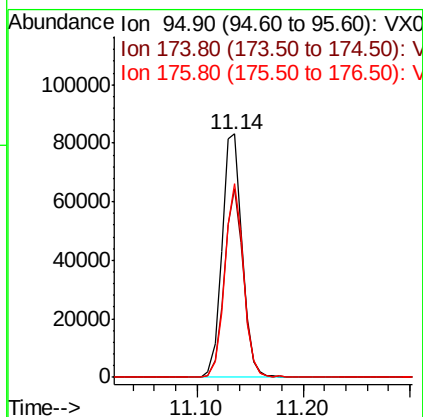
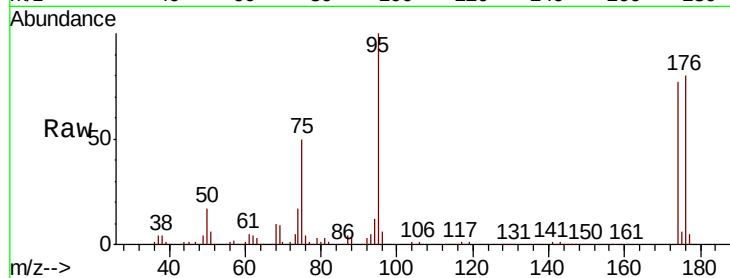
Time-->



#62
4-Bromofluorobenzene
Concen: 45.145 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013116.D
Acq: 17 Oct 2019 18:41

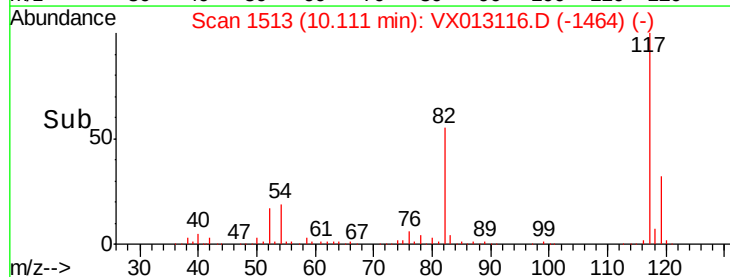
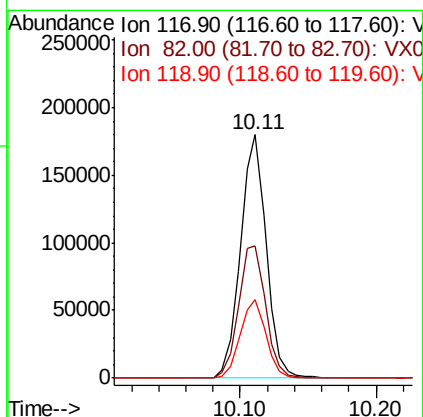
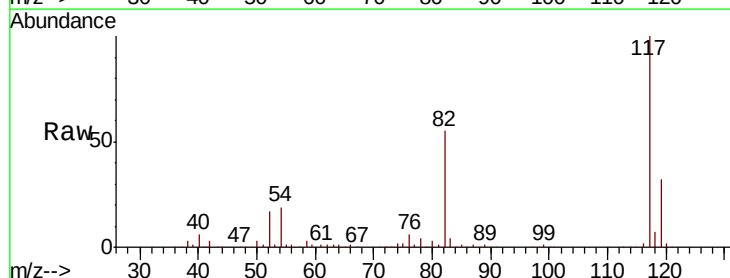
Instrument :
MSVOA_X
ClientSampled :
RB-02-SRI4

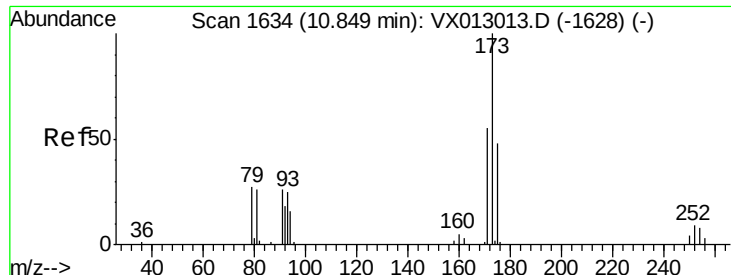
Tot Ion: 95 Resp: 110057
Ion Ratio Lower Upper
95 100
174 74.0 0.0 143.4
176 73.9 0.0 136.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013116.D
Acq: 17 Oct 2019 18:41

Tgt Ion: 117 Resp: 236784
Ion Ratio Lower Upper
117 100
82 54.6 44.1 66.1
119 32.2 25.8 38.8





#71

Bromoform

Concen: 3.211 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.27 min

Lab File: VX013116.D

Acq: 17 Oct 2019 18:41

Instrument :

MSVOA_X

ClientSampled :

RB-02-SRI4

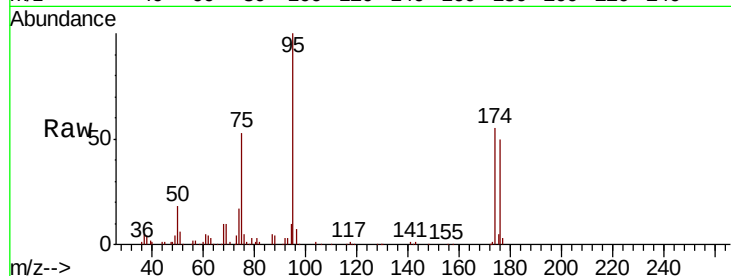
Tot Ion:173 Resp: 116

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.3#

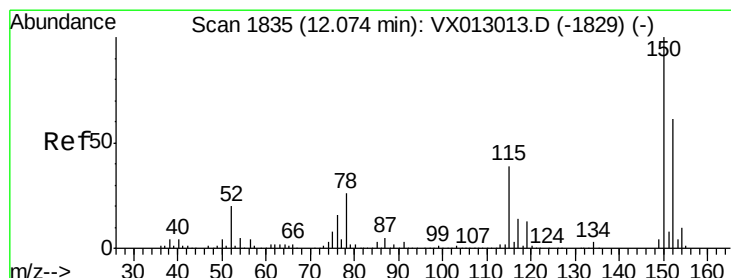
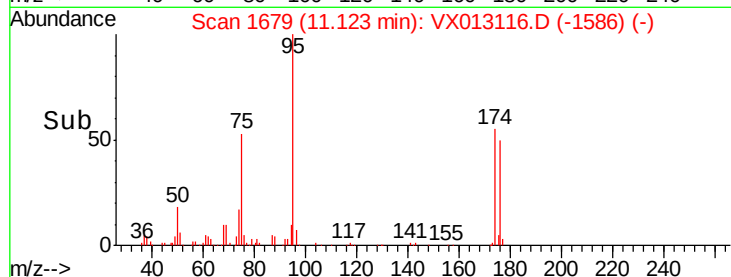
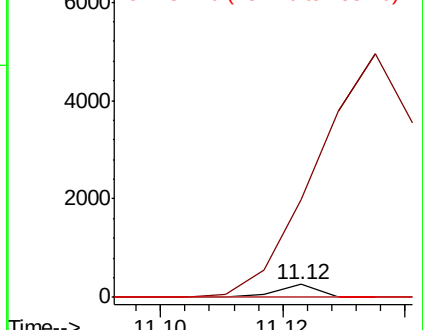
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013116.D

Acq: 17 Oct 2019 18:41

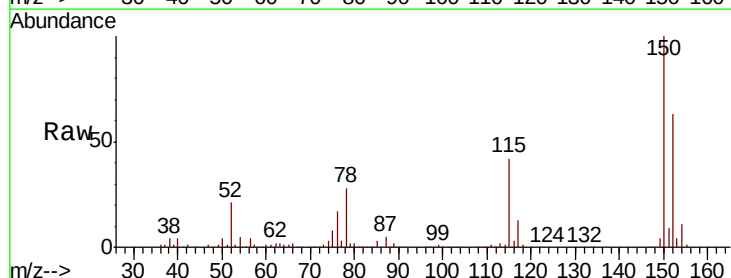
Tgt Ion:152 Resp: 94893

Ion Ratio Lower Upper

152 100

115 64.6 44.5 133.5

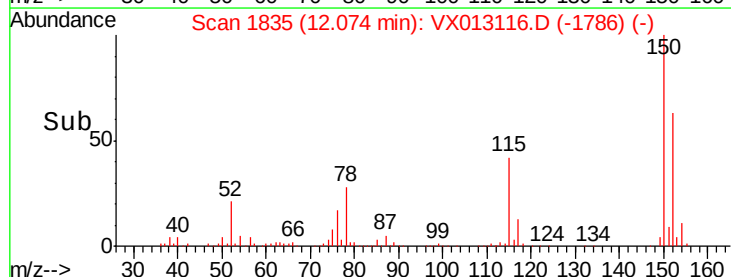
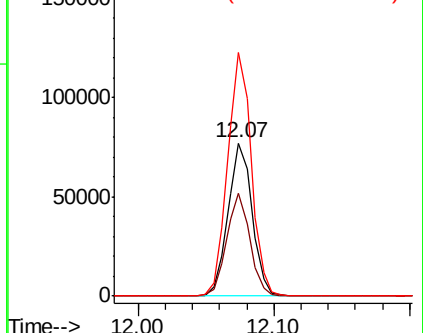
150 156.5 0.0 353.4

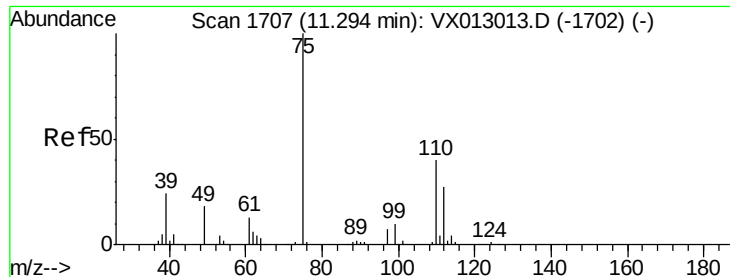


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.731 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013116.D

Acq: 17 Oct 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

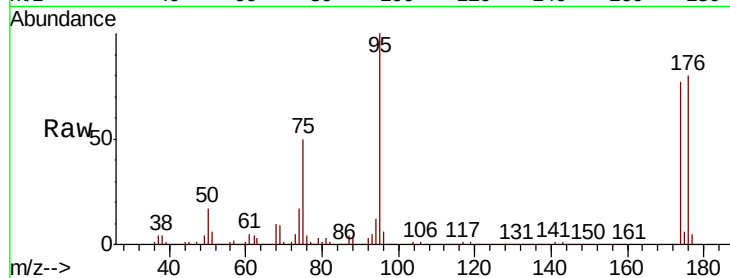
RB-02-SRI4

Tot Ion: 75 Resp: 54156

Ion Ratio Lower Upper

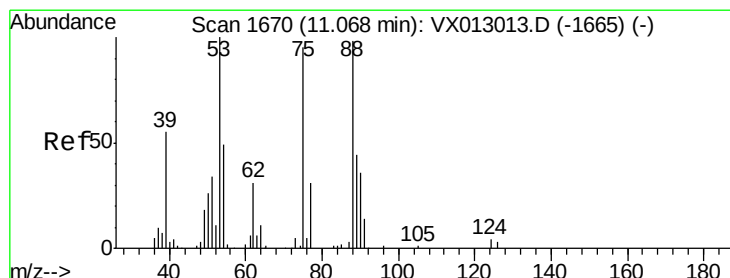
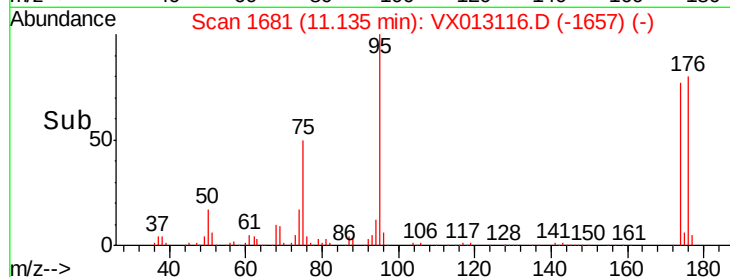
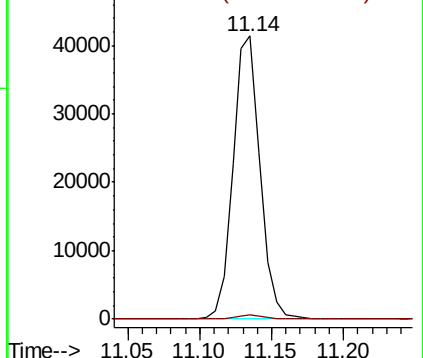
75 100

77 1.3 22.9 68.8#



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: 64.846 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013116.D

Acq: 17 Oct 2019 18:41

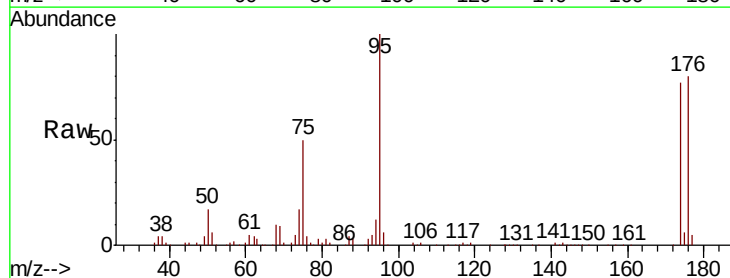
Tgt Ion: 75 Resp: 54156

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#



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

