

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072919\
 Data File : VX011146.D
 Acq On : 29 Jul 2019 15:25
 Operator : JC/SP
 Sample : K4019-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0310

Quant Time: Jul 30 05:06:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	184408	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	296907	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	279143	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	130579	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	102976	52.49	ug/l	0.00
Spiked Amount			Recovery	=	104.98%	
35) Dibromofluoromethane	5.50	113	92968	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
50) Toluene-d8	8.71	98	357366	50.56	ug/l	0.00
Spiked Amount			Recovery	=	101.12%	
62) 4-Bromofluorobenzene	11.13	95	125659	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	

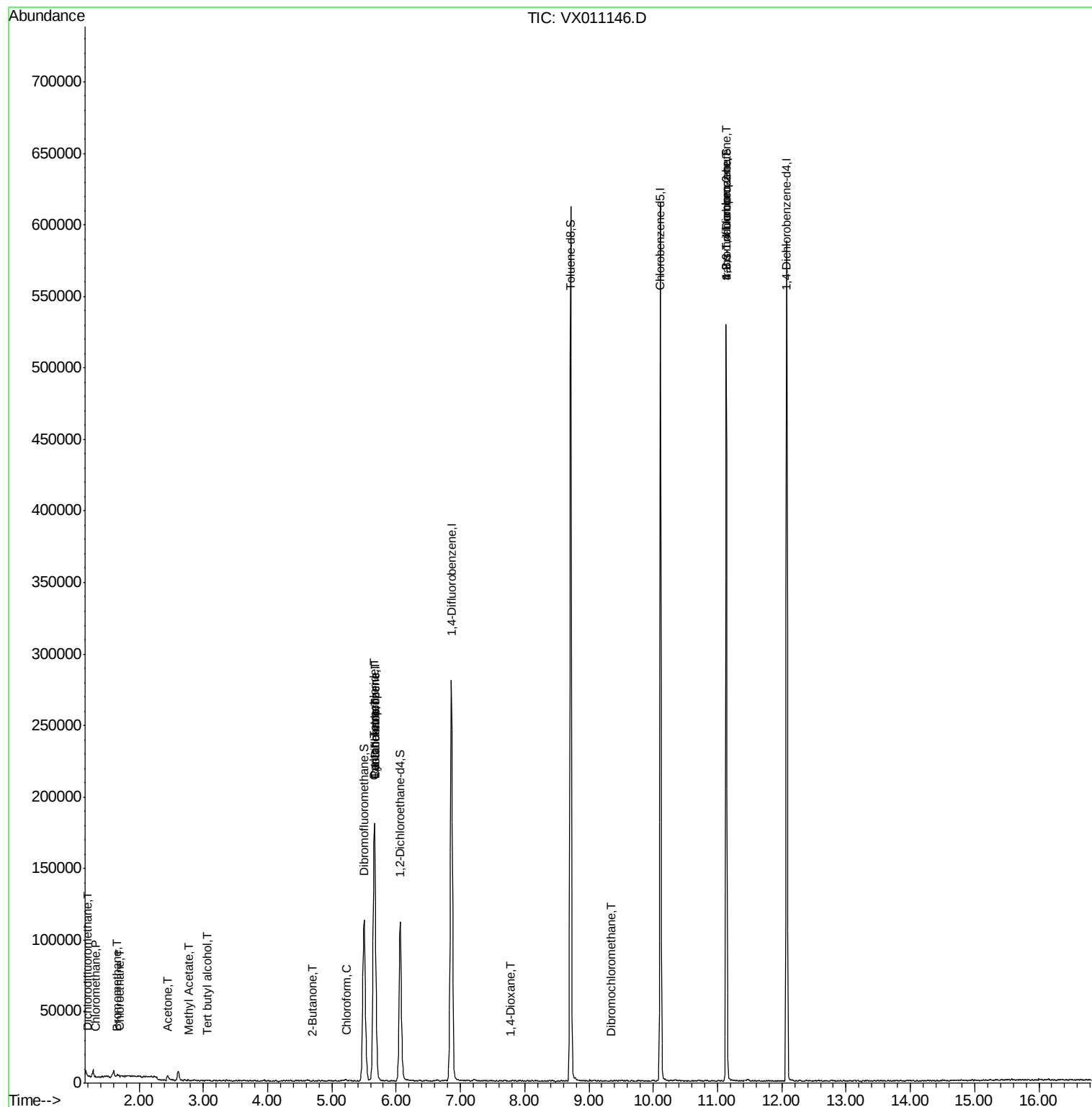
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	45	0.569	ug/l #	43
3) Chloromethane	1.32	50	688	0.406	ug/l #	85
5) Bromomethane	1.65	94	539	0.553	ug/l #	78
6) Chloroethane	1.70	64	226	0.206	ug/l	98
11) Tert butyl alcohol	3.06	59	250	0.547	ug/l #	33
16) Acetone	2.44	43	4045	4.565	ug/l	94
18) Methyl Acetate	2.78	43	420	0.208	ug/l	96
25) 2-Butanone	4.70	43	629	0.495	ug/l #	46
30) Chloroform	5.23	83	1011	0.320	ug/l #	47
31) Cyclohexane	5.66	56	3817	1.433	ug/l #	6
36) 1,1-Dichloropropene	5.66	75	12445	5.103	ug/l #	48
38) Carbon Tetrachloride	5.65	117	16603	6.533	ug/l #	17
49) 1,4-Dioxane	7.78	88	24	0.429	ug/l #	1
60) Dibromochloromethane	9.34	129	56	2.551	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	62993	26.733	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	62993	66.319	ug/l #	11

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

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Quant Time: Jul 30 05:06:36 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX011146.D

Acq: 29 Jul 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

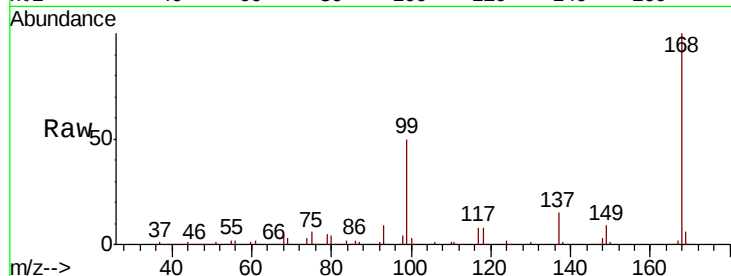
SU19-MSW0310

Tot Ion:168 Resp: 184408

Ion Ratio Lower Upper

168 100

99 50.3 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

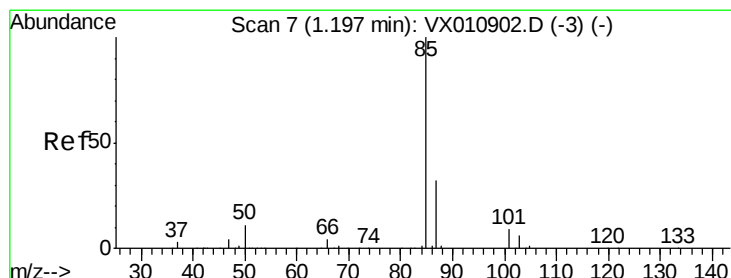
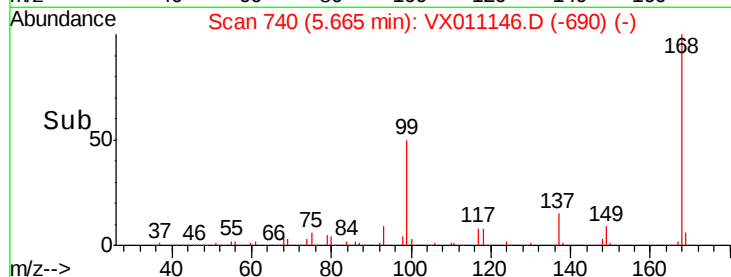
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#2

Dichlorodifluoromethane

Concen: 0.569 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX011146.D

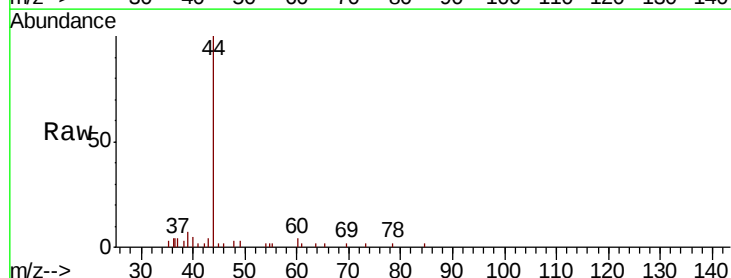
Acq: 29 Jul 2019 15:25

Tgt Ion: 85 Resp: 45

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

80

60

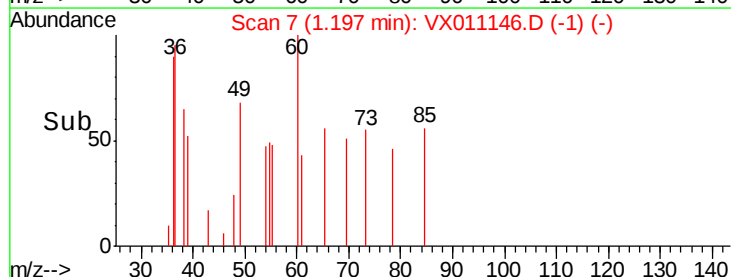
40

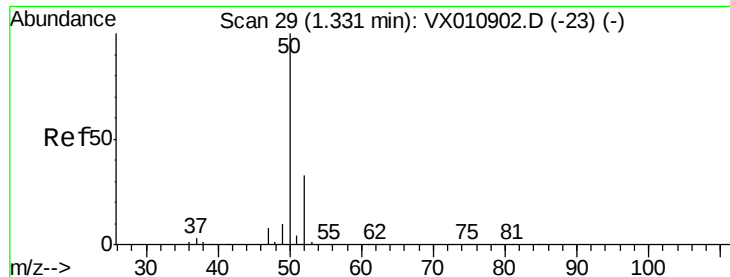
20

0

Time-->

1.18 1.20 1.22





#3

Chloromethane

Concen: 0.406 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX011146.D

Acq: 29 Jul 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

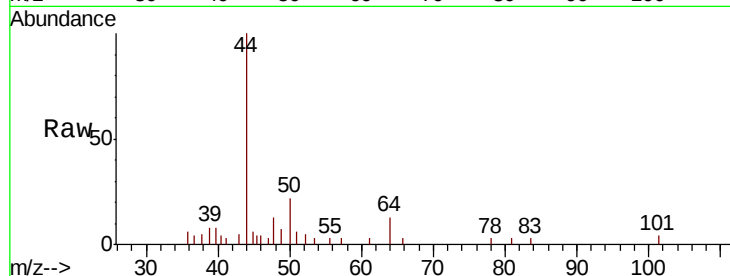
SU19-MSW0310

Tot Ion: 50 Resp: 688

Ion Ratio Lower Upper

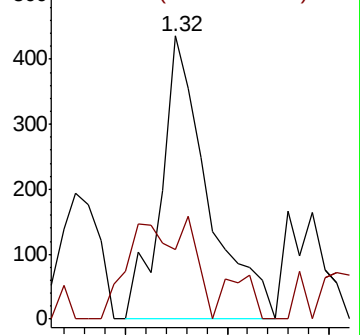
50 100

52 24.5 26.4 39.6#

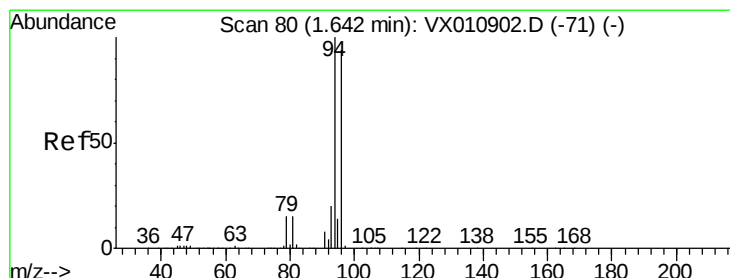
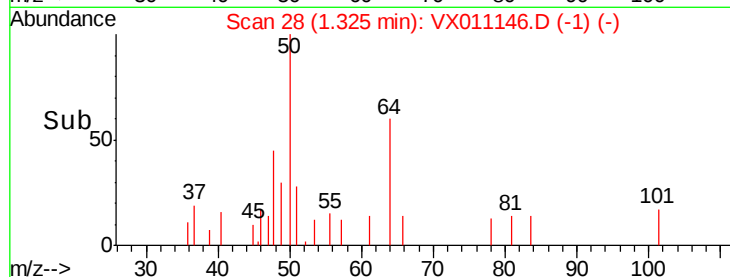


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#5

Bromomethane

Concen: 0.553 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX011146.D

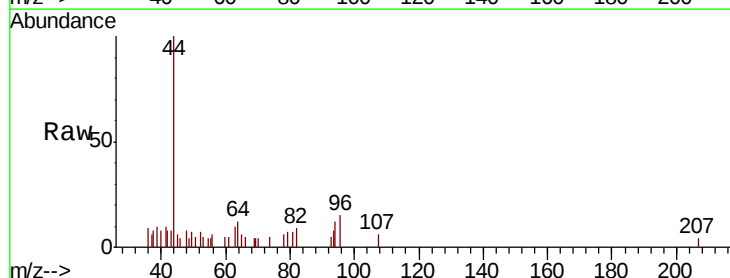
Acq: 29 Jul 2019 15:25

Tgt Ion: 94 Resp: 539

Ion Ratio Lower Upper

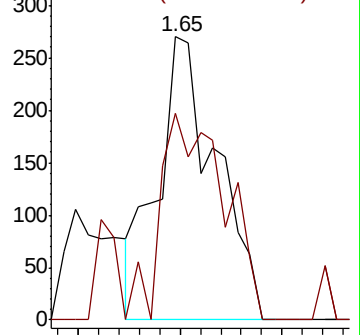
94 100

96 73.0 75.6 113.4#

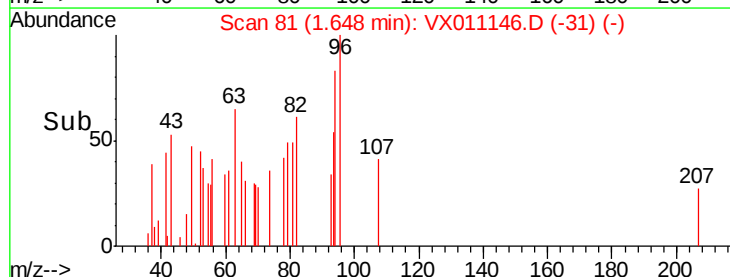


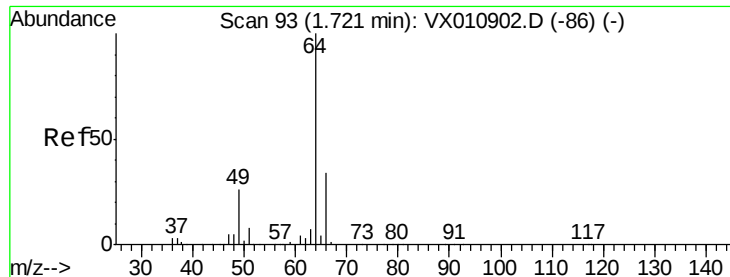
Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->





#6

Chloroethane

Concen: 0.206 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX011146.D

Acq: 29 Jul 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

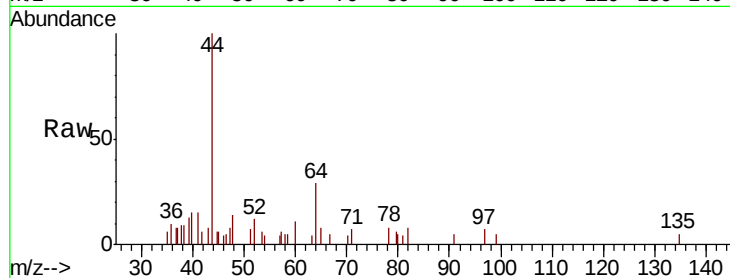
SU19-MSW0310

Tot Ion: 64 Resp: 226

Ion Ratio Lower Upper

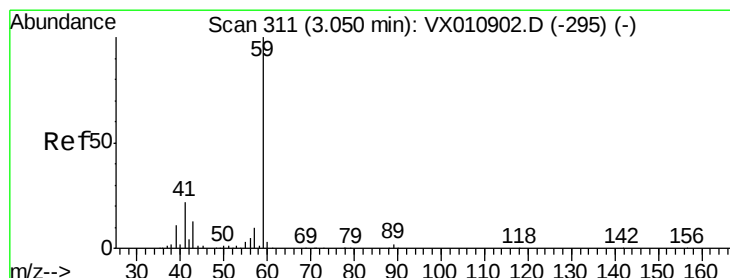
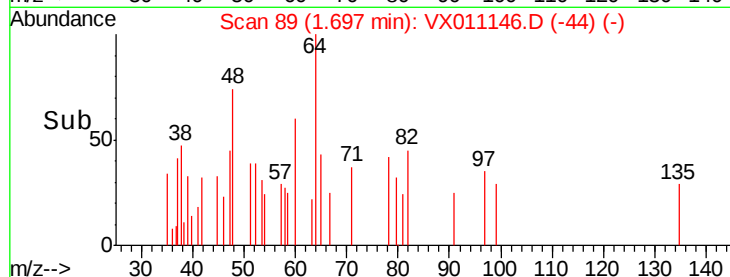
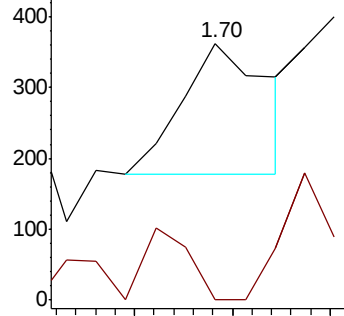
64 100

66 32.4 27.0 40.6



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 0.547 ug/l

RT: 3.06 min Scan# 313

Delta R.T. 0.01 min

Lab File: VX011146.D

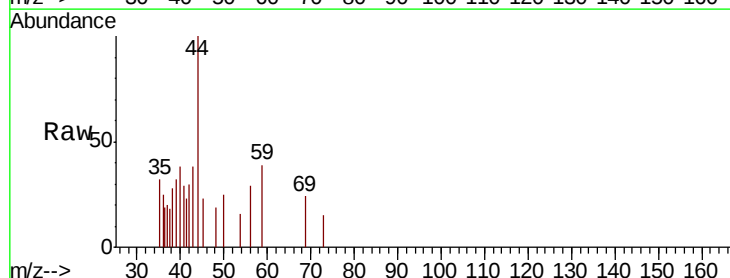
Acq: 29 Jul 2019 15:25

Tgt Ion: 59 Resp: 250

Ion Ratio Lower Upper

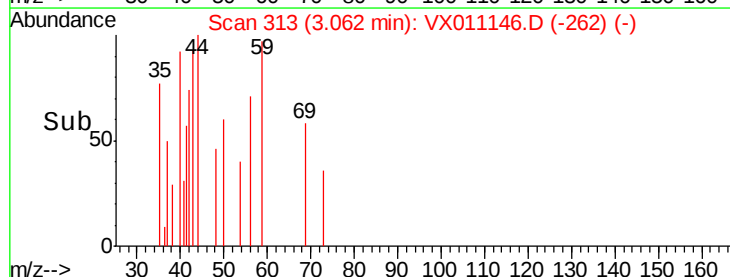
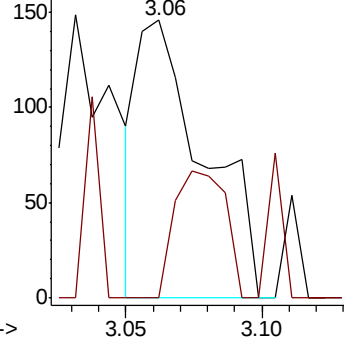
59 100

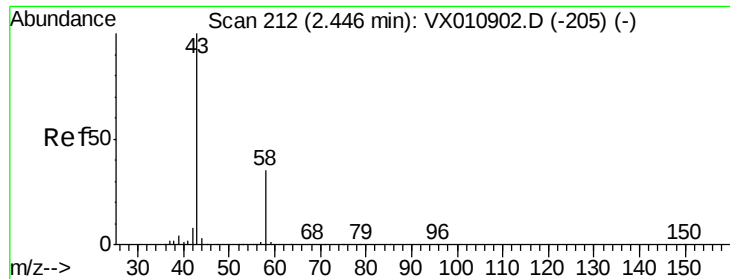
57 34.8 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 4.565 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011146.D

Acq: 29 Jul 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

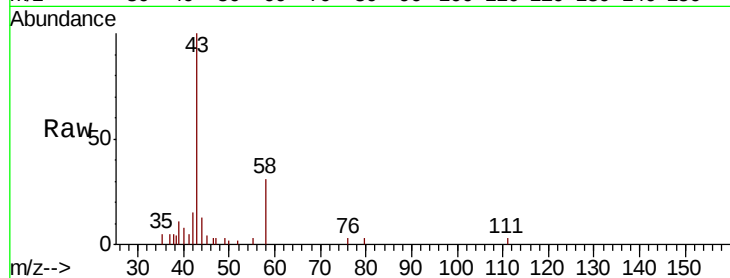
SU19-MSW0310

Tot Ion: 43 Resp: 4045

Ion Ratio Lower Upper

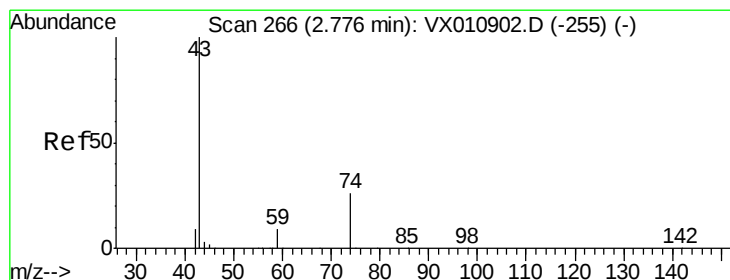
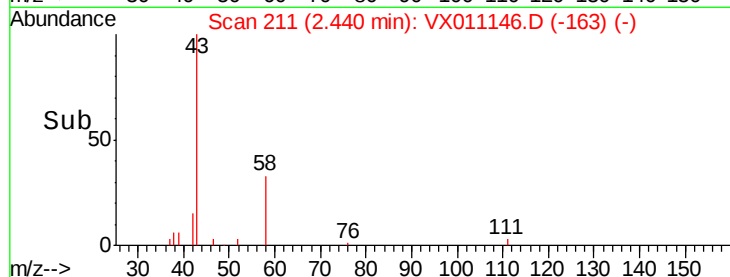
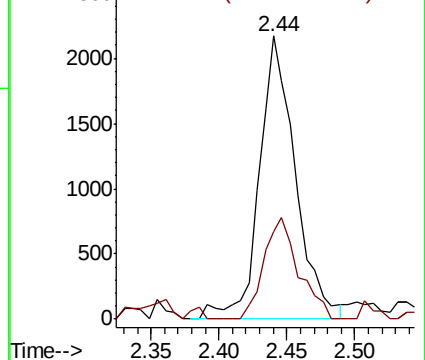
43 100

58 30.9 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.208 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX011146.D

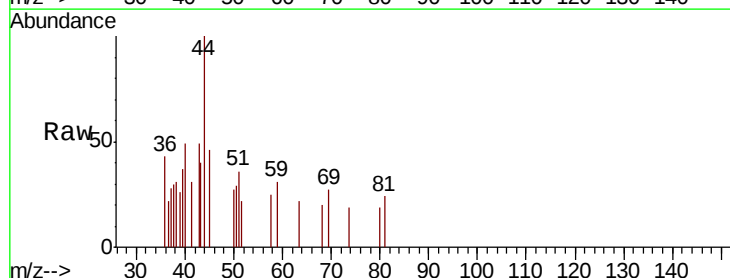
Acq: 29 Jul 2019 15:25

Tgt Ion: 43 Resp: 420

Ion Ratio Lower Upper

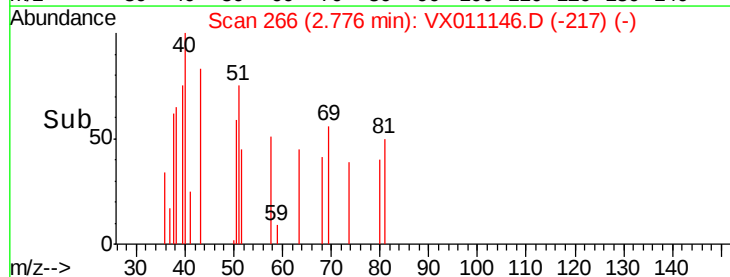
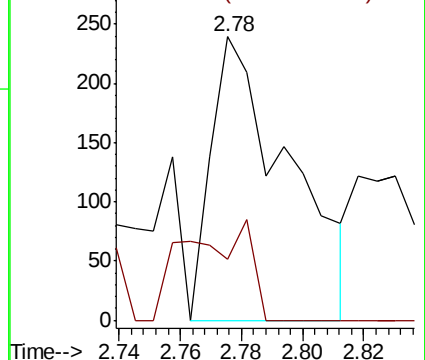
43 100

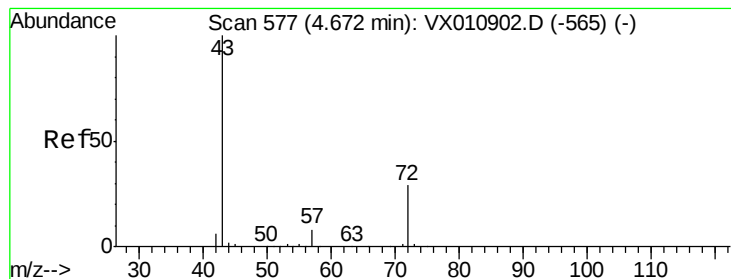
74 28.8 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#25

2-Butanone

Concen: 0.495 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX011146.D

Acq: 29 Jul 2019 15:25

Instrument :

MSVOA_X

ClientSampled :

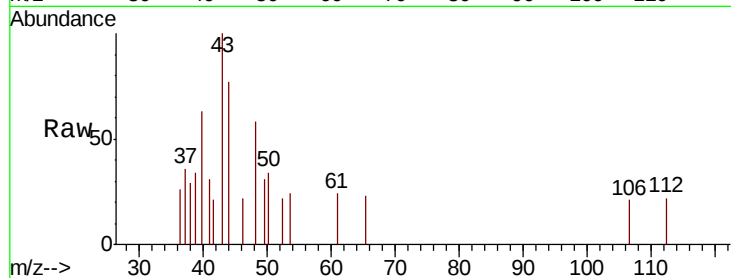
SU19-MSW0310

Tot Ion: 43 Resp: 629

Ion Ratio Lower Upper

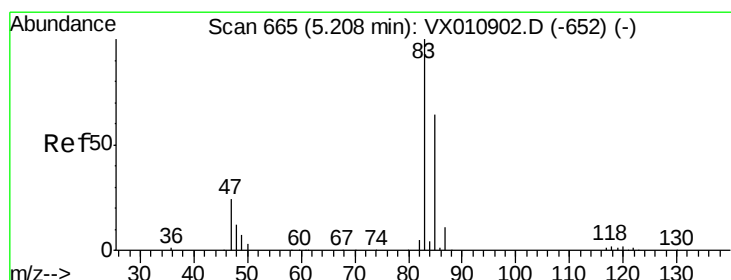
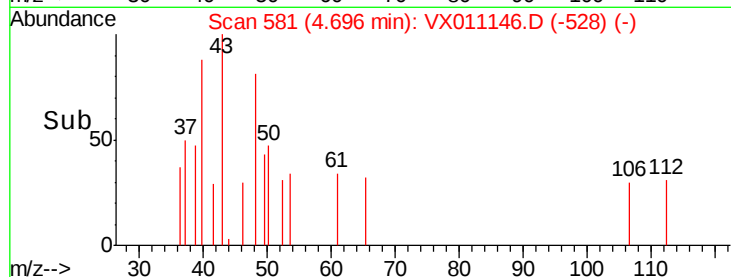
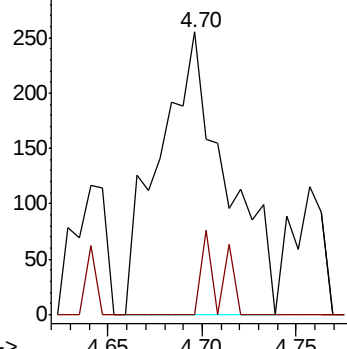
43 100

72 0.0 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#30

Chloroform

Concen: 0.320 ug/l

RT: 5.23 min Scan# 668

Delta R.T. 0.02 min

Lab File: VX011146.D

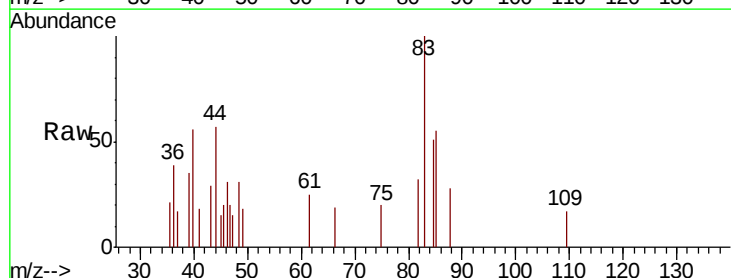
Acq: 29 Jul 2019 15:25

Tgt Ion: 83 Resp: 1011

Ion Ratio Lower Upper

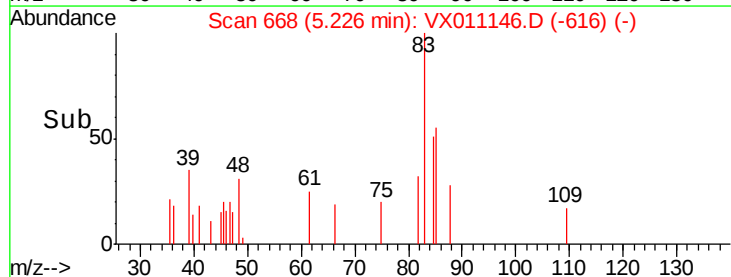
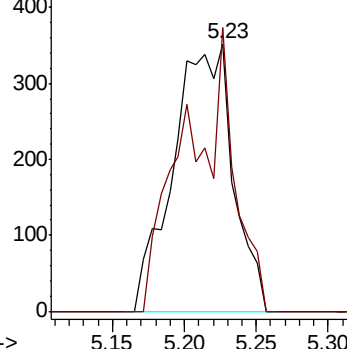
83 100

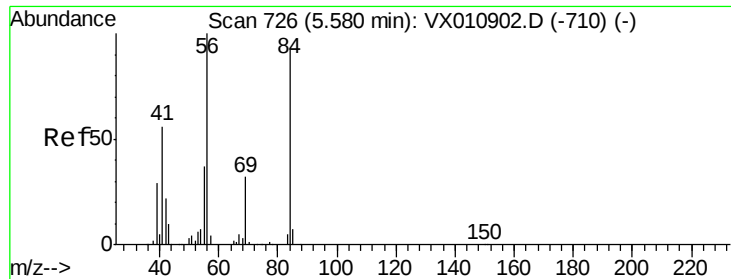
85 106.0 51.4 77.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

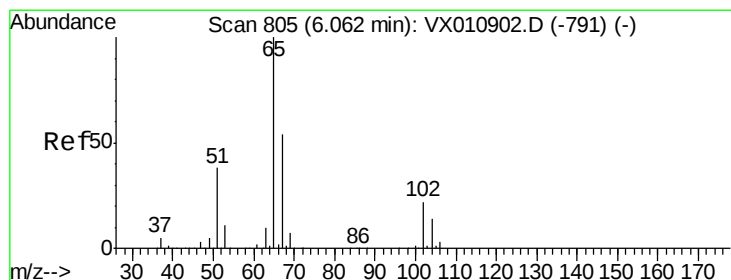
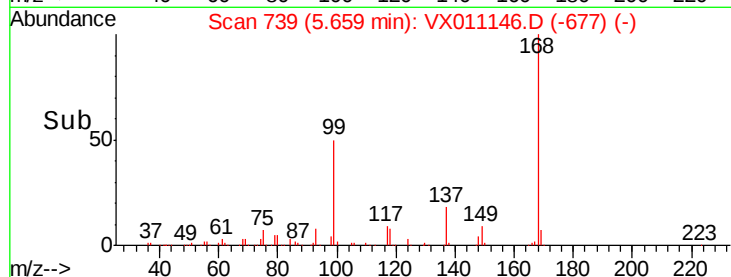
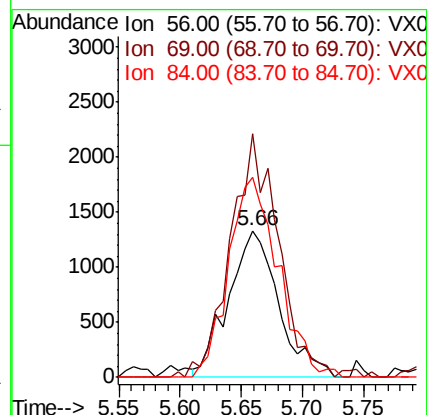
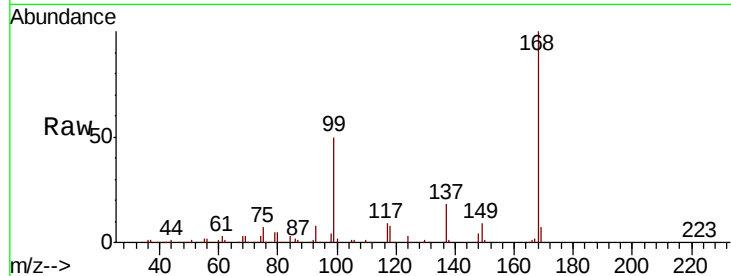




#31
Cyclohexane
Concen: 1.433 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX011146.D
Acq: 29 Jul 2019 15:25

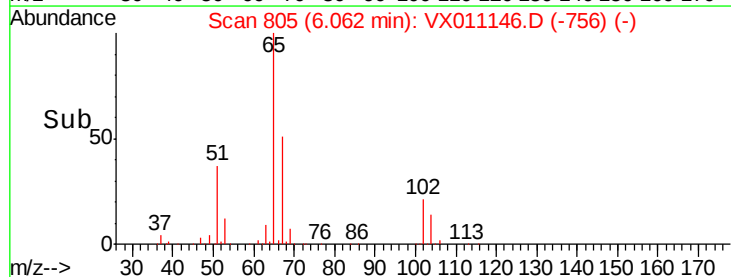
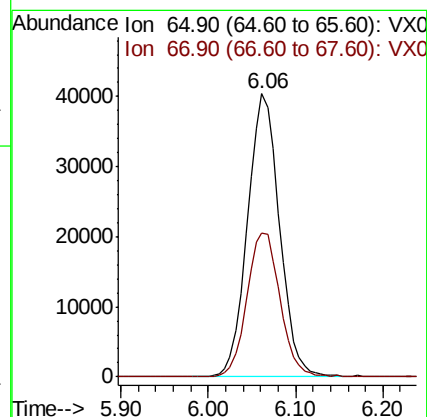
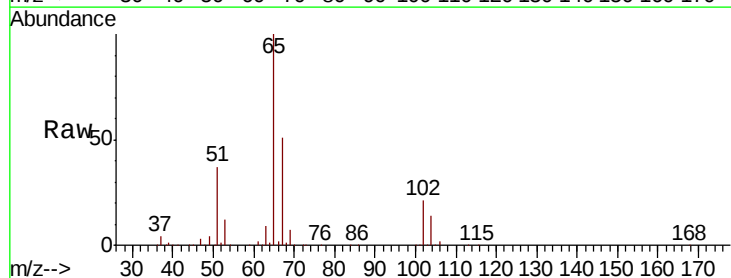
Instrument :
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SU19-MSW0310

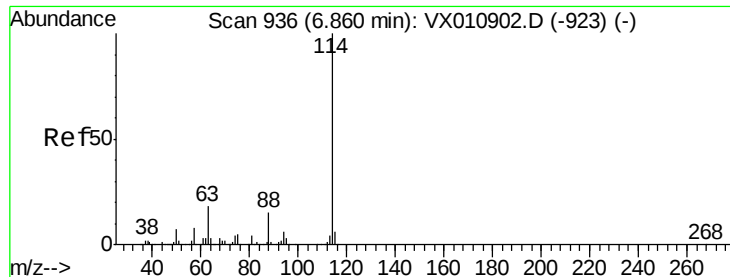
Tot Ion: 56 Resp: 3817
Ion Ratio Lower Upper
56 100
69 161.3 25.8 38.8#
84 136.6 73.8 110.6#



#33
1,2-Dichloroethane-d4
Concen: 52.490 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX011146.D
Acq: 29 Jul 2019 15:25

Tgt Ion: 65 Resp: 102976
Ion Ratio Lower Upper
65 100
67 52.7 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX011146.D

Acq: 29 Jul 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0310

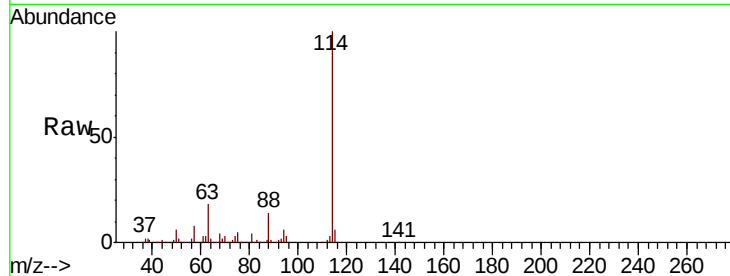
Tot Ion:114 Resp: 296907

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.6

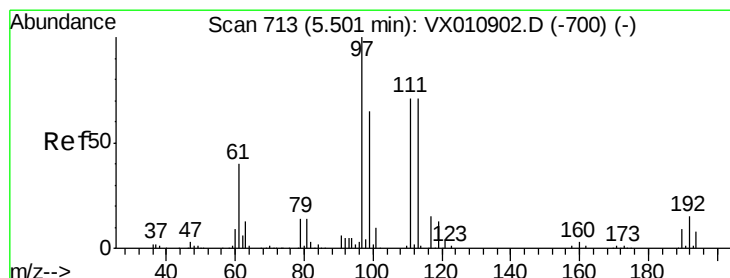
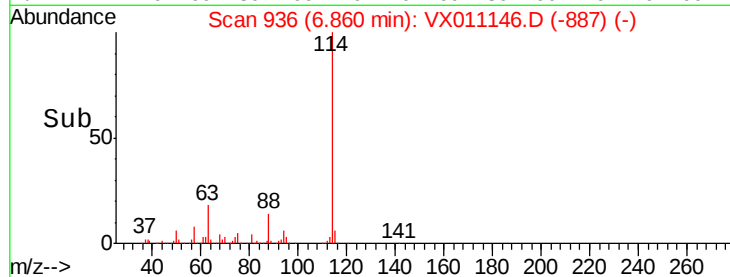
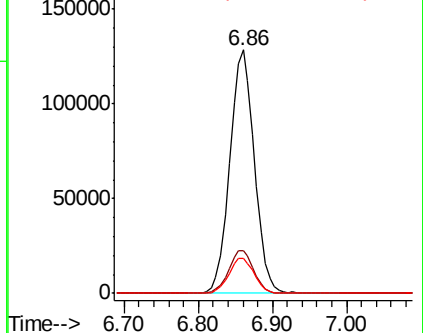
88 14.2 0.0 29.8



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: 49.332 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX011146.D

Acq: 29 Jul 2019 15:25

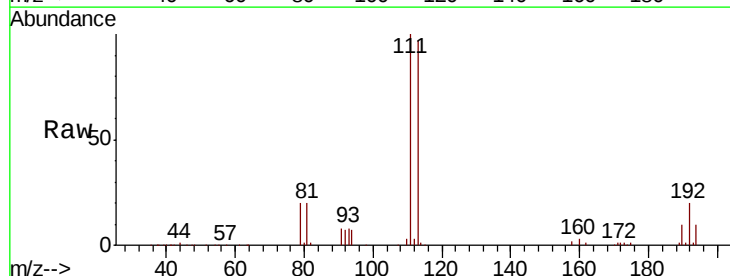
Tgt Ion:113 Resp: 92968

Ion Ratio Lower Upper

113 100

111 103.2 82.3 123.5

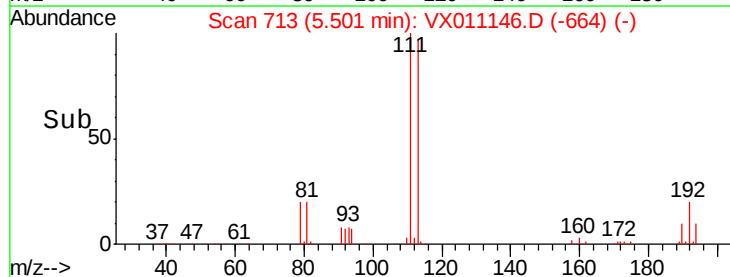
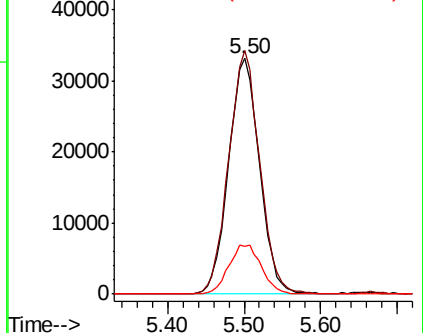
192 22.1 17.4 26.2

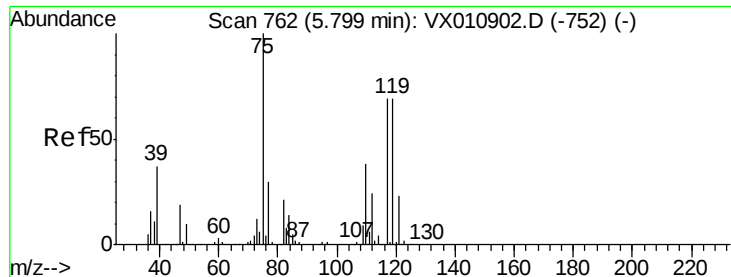


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.103 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX011146.D

Acq: 29 Jul 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0310

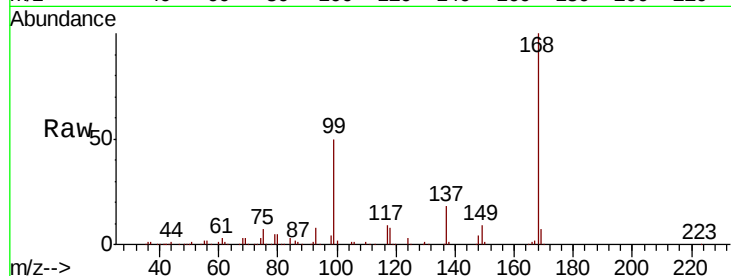
Tot Ion: 75 Resp: 12445

Ion Ratio Lower Upper

75 100

110 10.0 19.9 59.7#

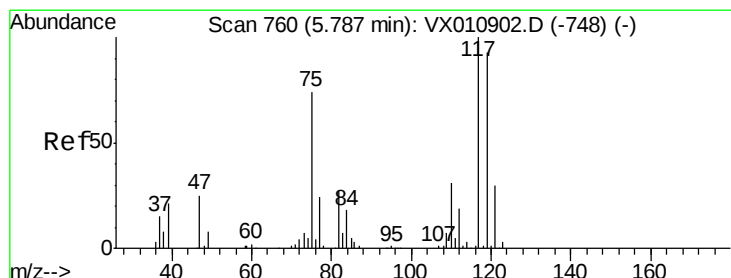
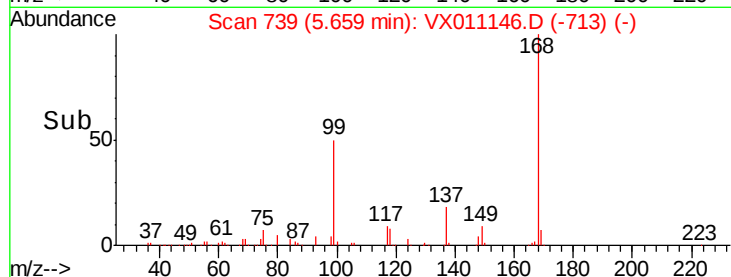
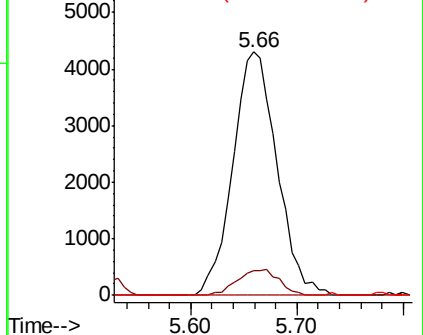
77 0.0 25.0 37.4#



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: 6.533 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011146.D

Acq: 29 Jul 2019 15:25

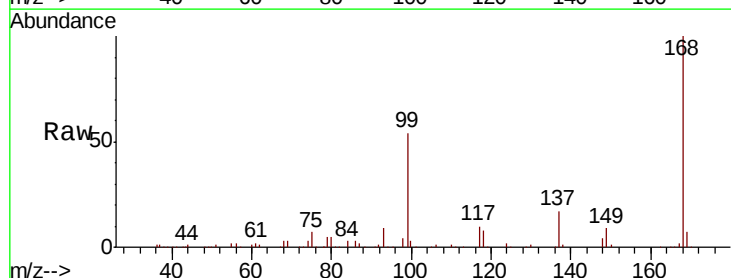
Tgt Ion: 117 Resp: 16603

Ion Ratio Lower Upper

117 100

119 4.1 74.2 111.2#

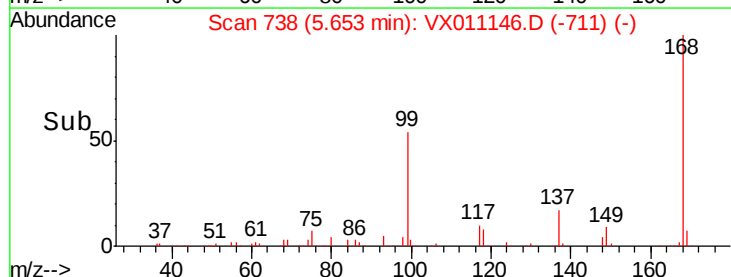
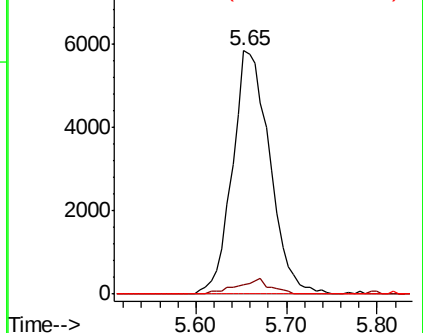
121 0.0 24.2 36.2#

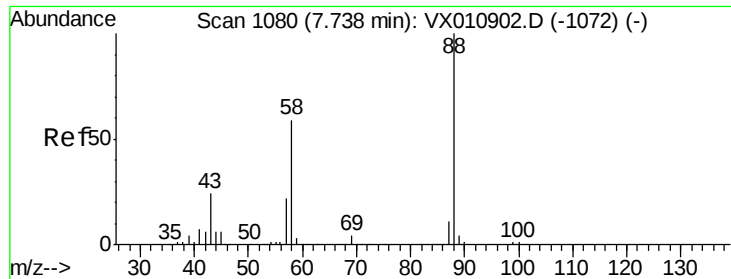


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

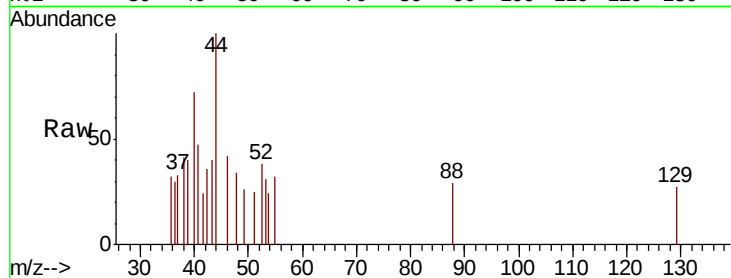




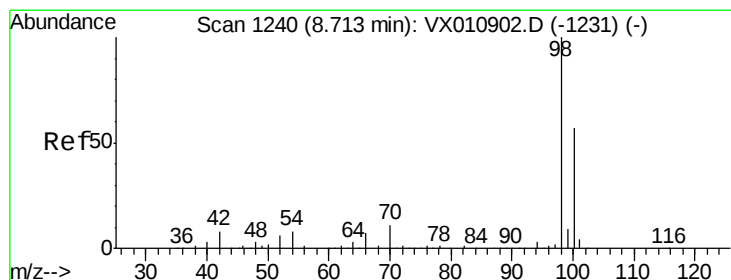
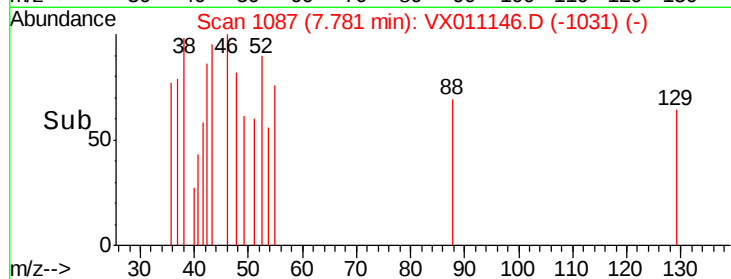
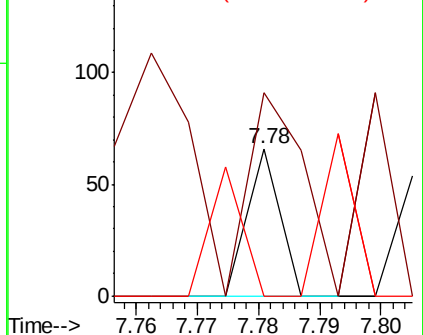
#49
1,4-Dioxane
Concen: 0.429 ug/l
RT: 7.78 min Scan# 1087
Delta R.T. 0.04 min
Lab File: VX011146.D
Acq: 29 Jul 2019 15:25

Instrument :
MSVOA_X
ClientSampled :
SU19-MSW0310

Tot Ion: 88 Resp: 24
Ion Ratio Lower Upper
88 100
43 237.5 22.9 34.3#
58 87.5 49.8 74.8#

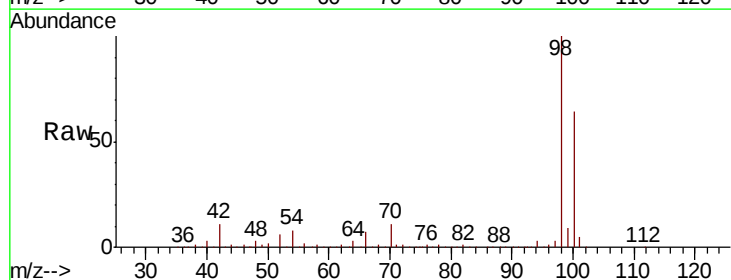


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

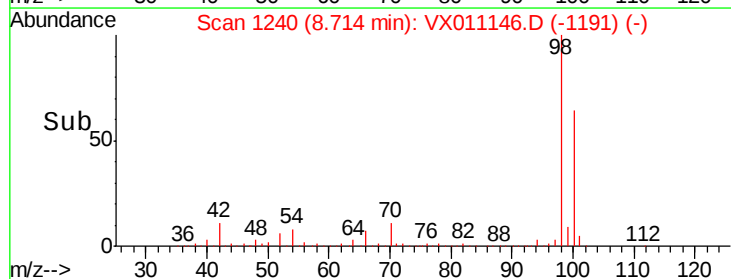
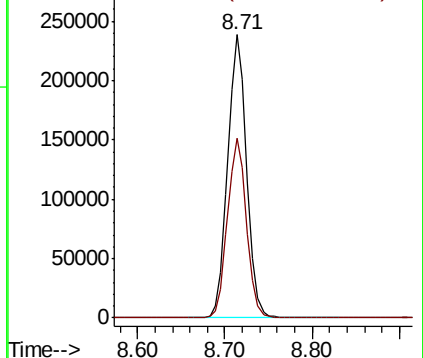


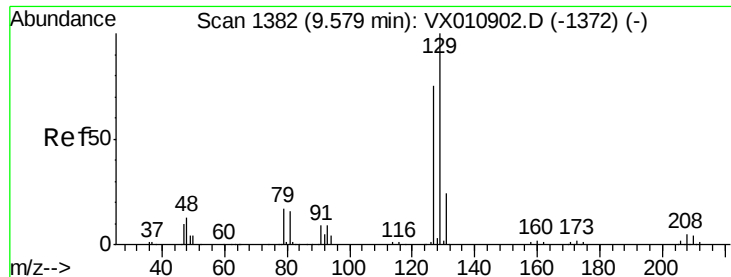
#50
Toluene-d8
Concen: 50.560 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011146.D
Acq: 29 Jul 2019 15:25

Tgt Ion: 98 Resp: 357366
Ion Ratio Lower Upper
98 100
100 63.6 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 2.551 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX011146.D

Acq: 29 Jul 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

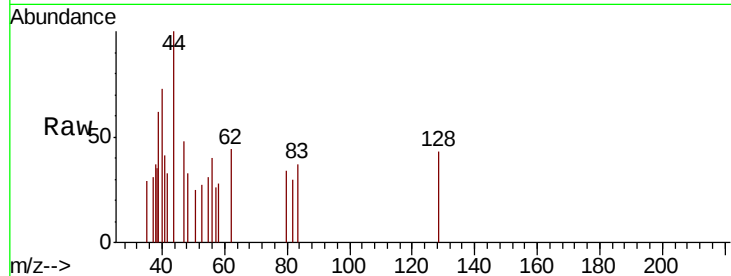
SU19-MSW0310

Tot Ion:129 Resp: 56

Ion Ratio Lower Upper

129 100

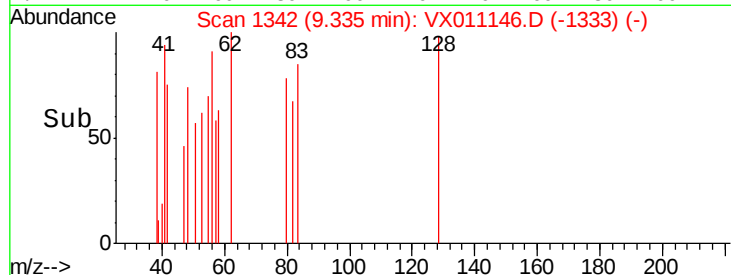
127 0.0 38.6 115.8#



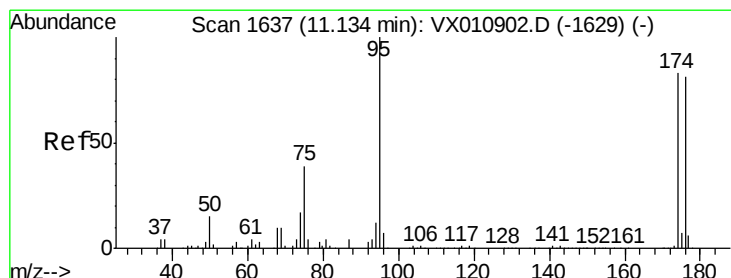
Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34



Time-->



#62

4-Bromofluorobenzene

Concen: 48.367 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011146.D

Acq: 29 Jul 2019 15:25

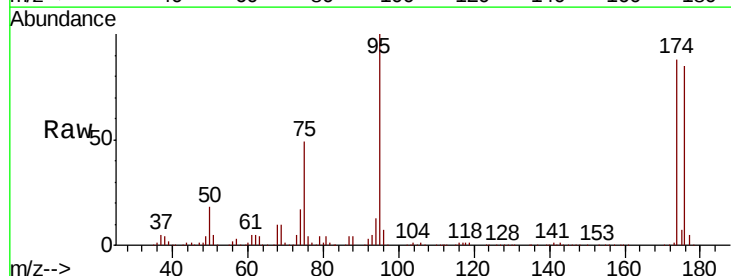
Tgt Ion: 95 Resp: 125659

Ion Ratio Lower Upper

95 100

174 92.2 0.0 180.6

176 89.8 0.0 173.8

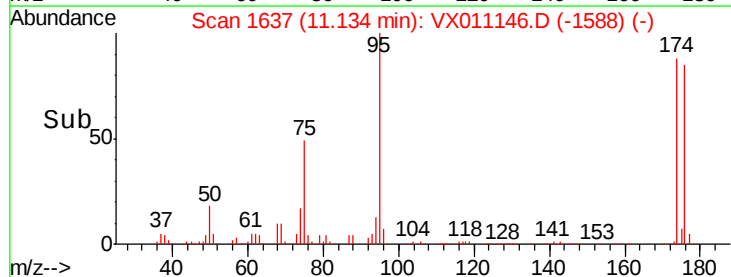


Abundance Ion 94.90 (94.60 to 95.60): VX0

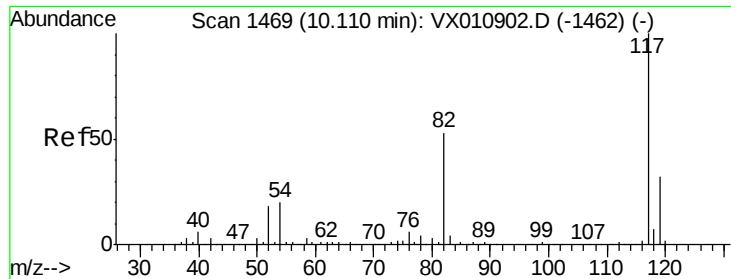
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.13



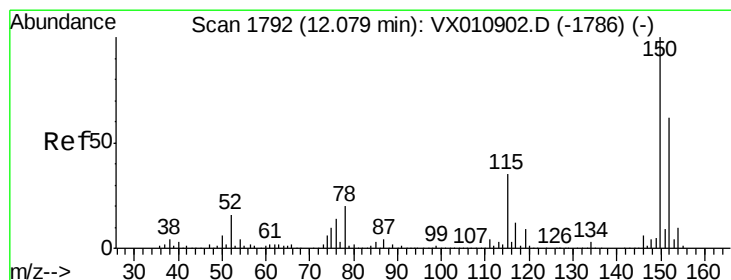
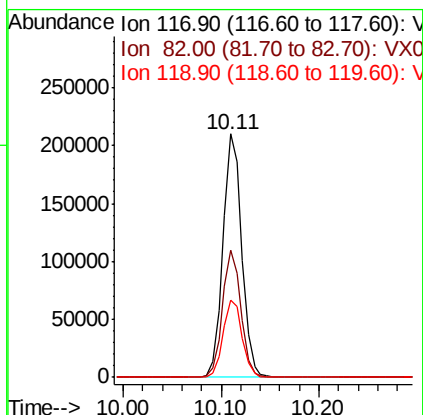
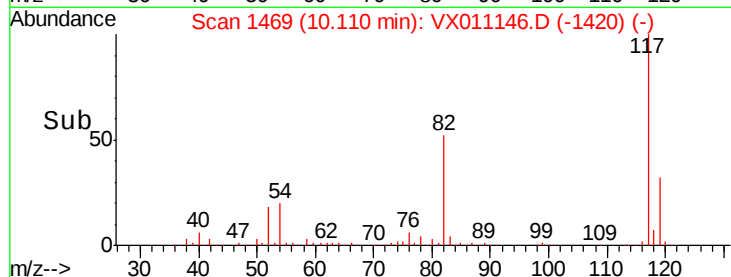
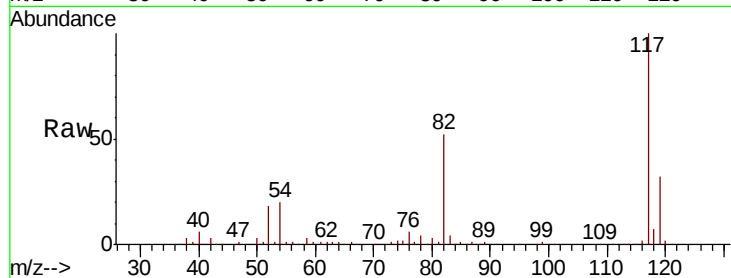
Time-->



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011146.D
Acq: 29 Jul 2019 15:25

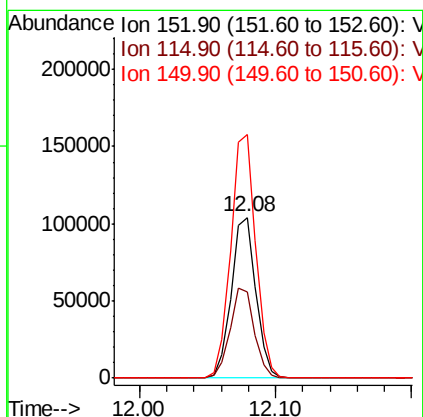
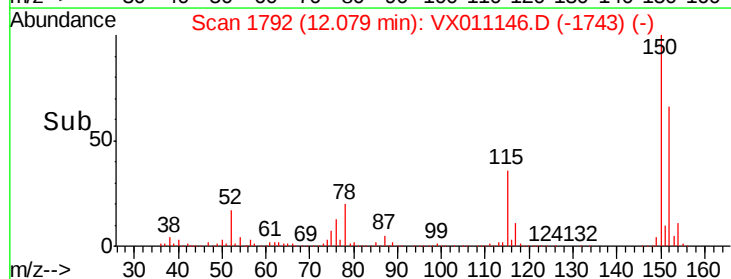
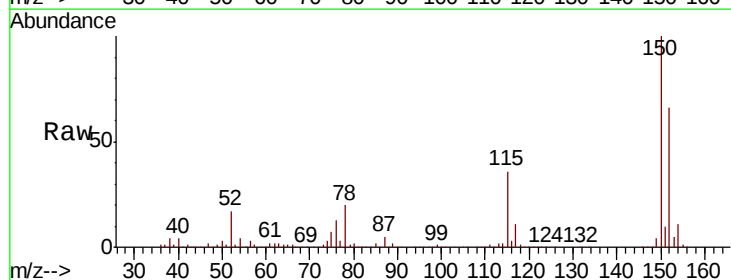
Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0310

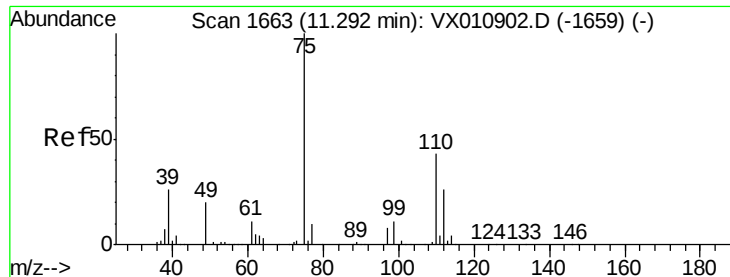
Tot Ion:117 Resp: 279143
Ion Ratio Lower Upper
117 100
82 52.4 42.6 63.8
119 31.5 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX011146.D
Acq: 29 Jul 2019 15:25

Tgt Ion:152 Resp: 130579
Ion Ratio Lower Upper
152 100
115 55.8 39.7 119.1
150 154.5 0.0 345.6





#76

1,2,3-Trichloropropane

Concen: 26.733 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011146.D

Acq: 29 Jul 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

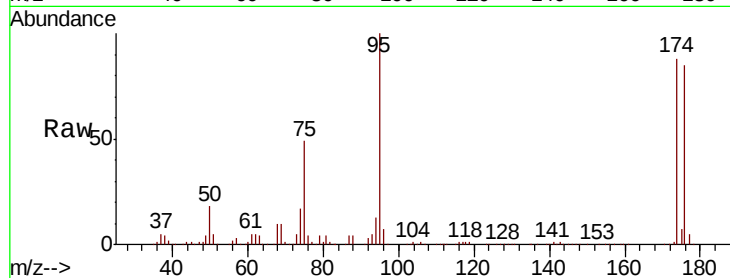
SU19-MSW0310

Tot Ion: 75 Resp: 62993

Ion Ratio Lower Upper

75 100

77 1.4 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

60000

50000

40000

30000

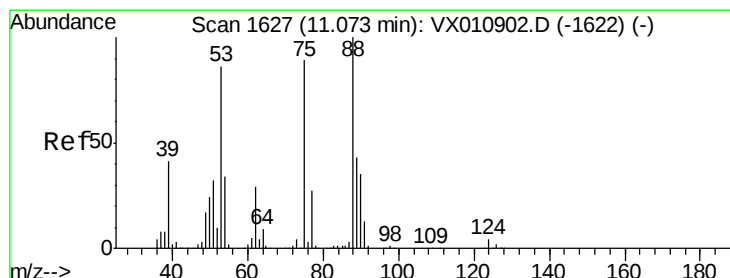
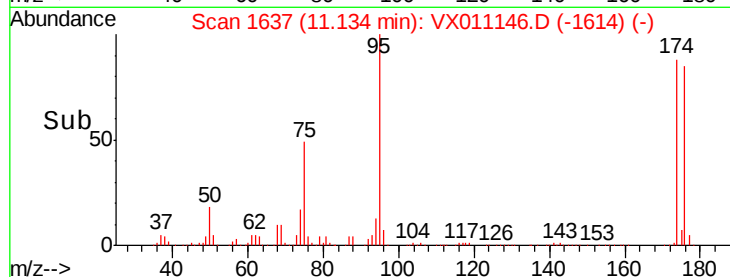
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 66.319 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011146.D

Acq: 29 Jul 2019 15:25

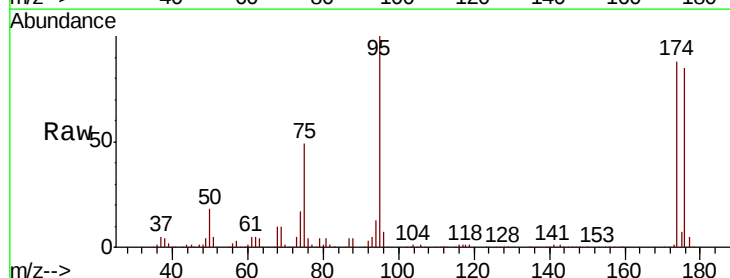
Tgt Ion: 75 Resp: 62993

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.0 38.5 57.7#



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

11.13

60000

40000

20000

0

Time-->

11.10 11.20

