

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050820\
 Data File : VX016117.D
 Acq On : 08 May 2020 13:47
 Operator : JC/SP
 Sample : L2511-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 001-WILLETS-PT-BLVD-(MAY)

Quant Time: May 09 06:25:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 30 12:42:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	50537	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	279661	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	252711	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	111975	28.83	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.10%
60) 4-Bromofluorobenzene	11.12	95	120590	28.46	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.87%
63) Toluene-d8	8.70	98	335839	30.98	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.27%

Target Compounds

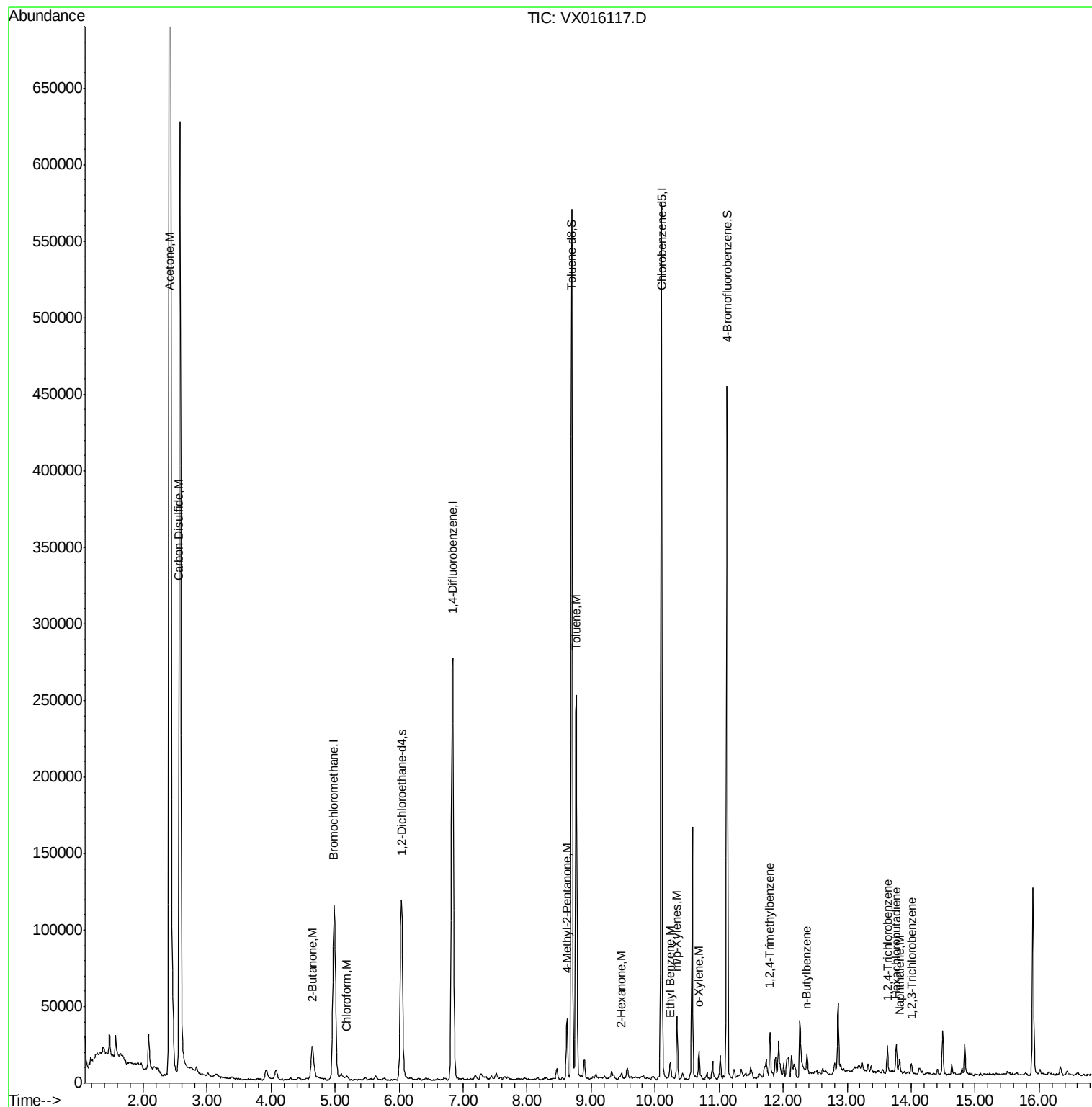
					Ovalue
15) Acetone	2.42	58	1122414	2274.110	ug/l 86
16) Carbon Disulfide	2.56	76	10674	1.213	ug/l 96
25) Chloroform	5.18	83	2496	0.426	ug/l 89
30) 2-Butanone	4.64	43	26601	10.150	ug/l 96
58) 4-Methyl-2-Pentanone	8.62	43	22573	4.530	ug/l 97
59) 2-Hexanone	9.47	43	2199	0.571	ug/l # 93
62) Toluene	8.77	91	160614	11.897	ug/l 99
66) Ethyl Benzene	10.24	91	6315	0.411	ug/l 93
67) m/p-Xylenes	10.34	106	9441	1.612	ug/l 96
68) o-Xylene	10.68	106	3660	0.648	ug/l 100
80) 1,2,4-Trimethylbenzene	11.79	105	7577	0.586	ug/l 60
85) n-Butylbenzene	12.37	91	4008	0.318	ug/l 96
89) 1,2,4-Trichlorobenzene	13.63	180	2074	0.420	ug/l 97
90) Hexachlorobutadiene	13.77	225	1252	0.590	ug/l 88
91) Naphthalene	13.82	128	5084	0.324	ug/l 97
92) 1,2,3-Trichlorobenzene	14.01	180	1769	0.373	ug/l 96

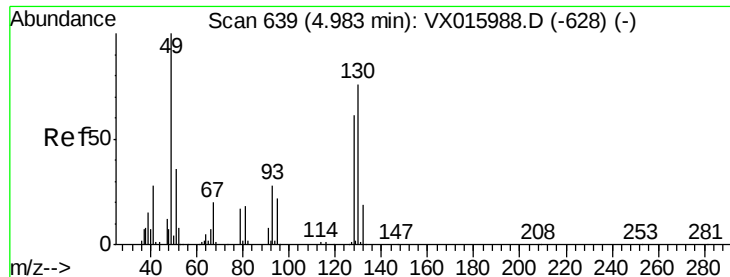
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 30 12:42:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. 0.00 min

Lab File: VX016117.D

Acq: 08 May 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD-(MAY)

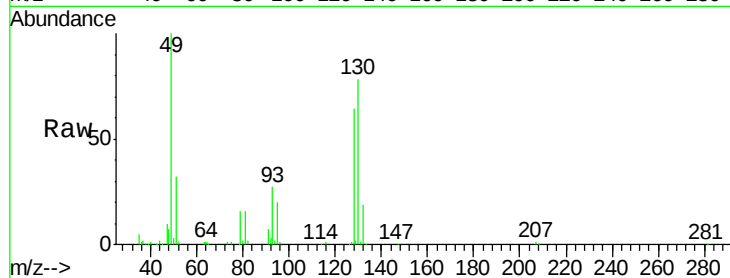
Tot Ion:128 Resp: 50537

Ion Ratio Lower Upper

128 100

49 160.1 0.0 418.5

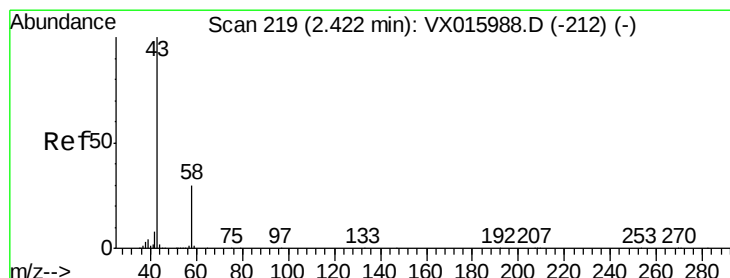
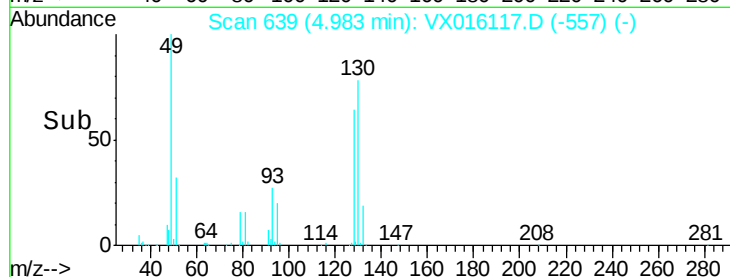
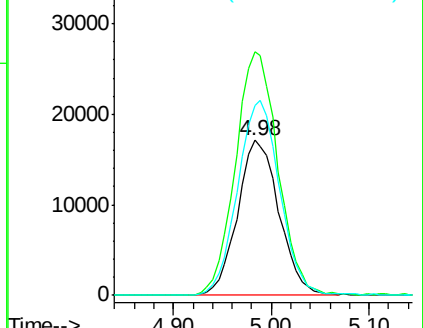
130 127.1 0.0 326.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#15

Acetone

Concen: 2274.110 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016117.D

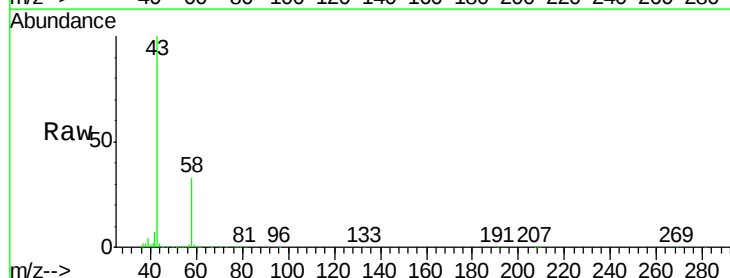
Acq: 08 May 2020 13:47

Tgt Ion: 58 Resp: 1122414

Ion Ratio Lower Upper

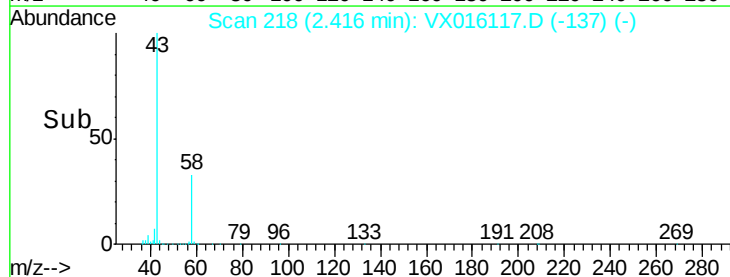
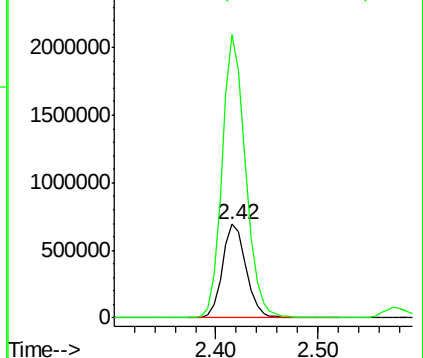
58 100

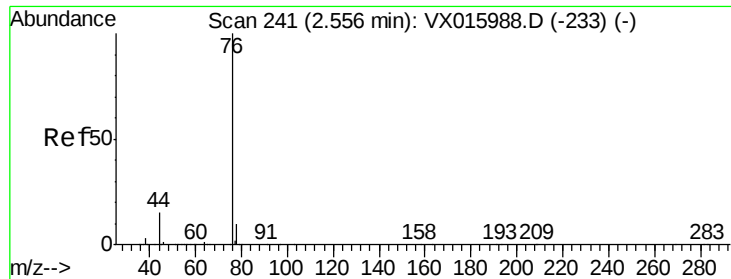
43 301.8 264.2 396.2



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

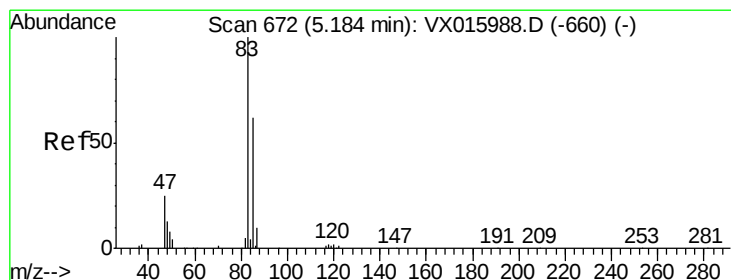
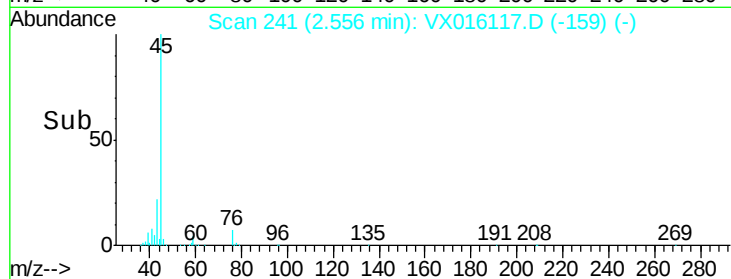
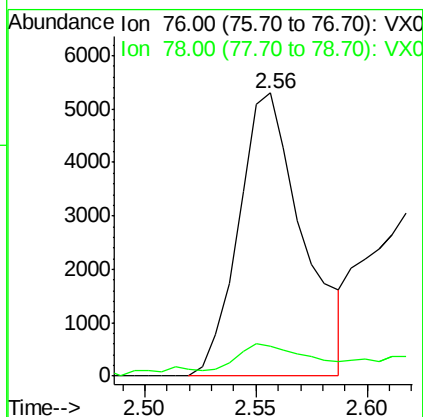
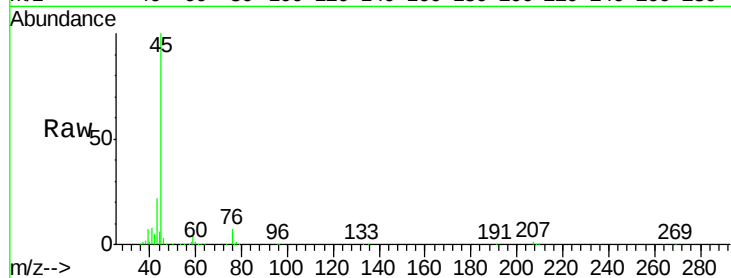




#16
Carbon Disulfide
Concen: 1.213 ug/l
RT: 2.56 min Scan# 241
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

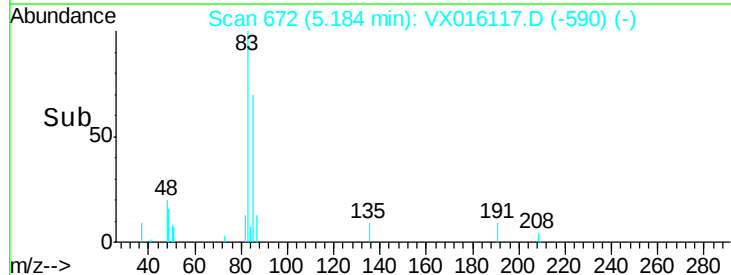
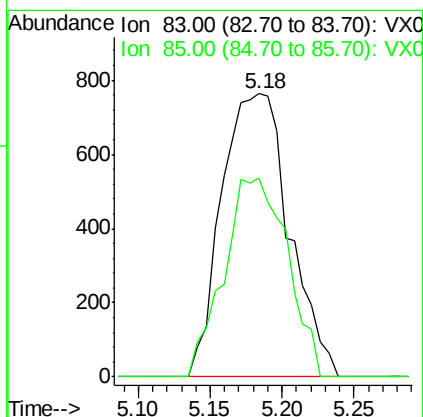
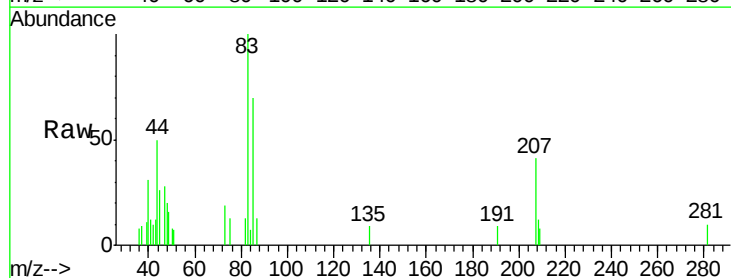
Instrument :
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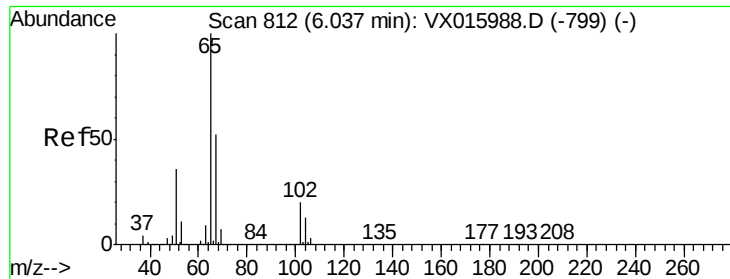
Tot Ion: 76 Resp: 10674
Ion Ratio Lower Upper
76 100
78 8.0 7.7 11.5



#25
Chloroform
Concen: 0.426 ug/l
RT: 5.18 min Scan# 672
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

Tgt Ion: 83 Resp: 2496
Ion Ratio Lower Upper
83 100
85 70.4 49.6 74.4





#27

1,2-Dichloroethane-d4

Concen: 28.830 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.00 min

Lab File: VX016117.D

Acq: 08 May 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

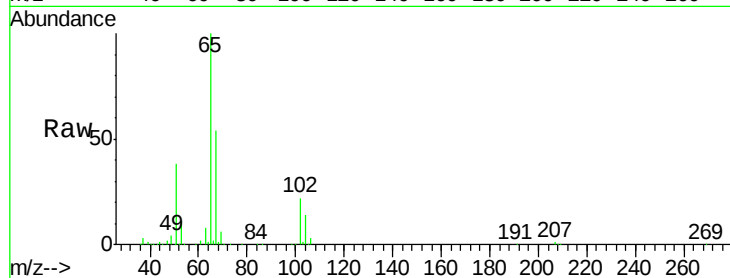
001-WILLETS-PT-BLVD-(MAY)

Tot Ion: 65 Resp: 111975

Ion Ratio Lower Upper

65 100

67 52.7 41.0 61.4



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

6.04

40000

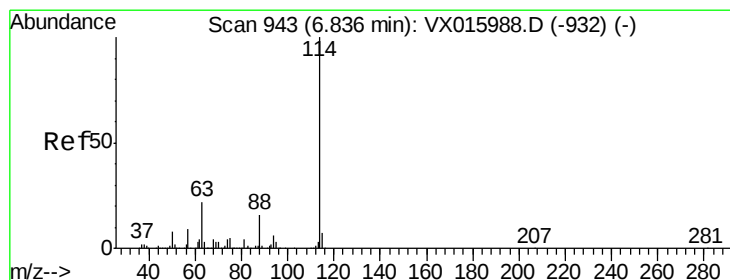
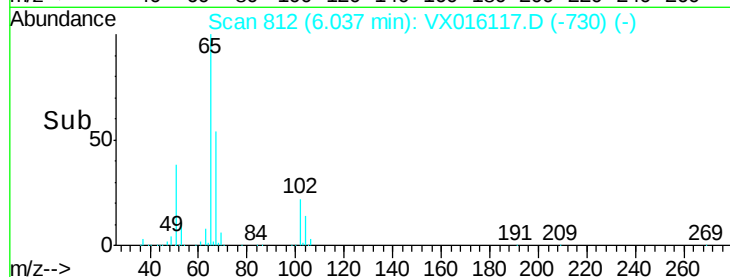
30000

20000

10000

0

Time--> 5.90 6.00 6.10



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.00 min

Lab File: VX016117.D

Acq: 08 May 2020 13:47

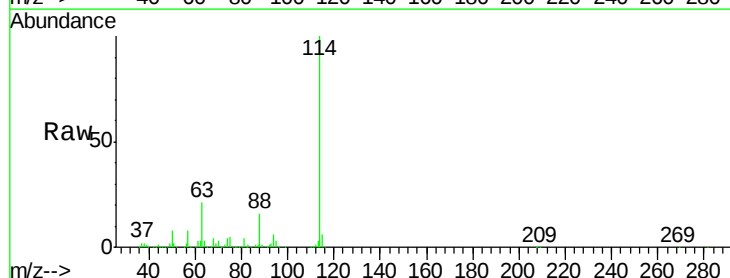
Tgt Ion: 114 Resp: 279661

Ion Ratio Lower Upper

114 100

63 21.0 17.1 25.7

88 16.1 13.0 19.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

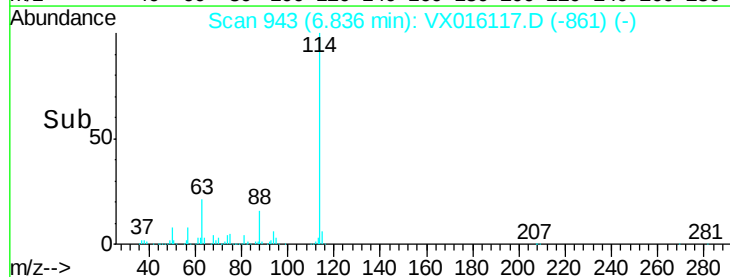
150000

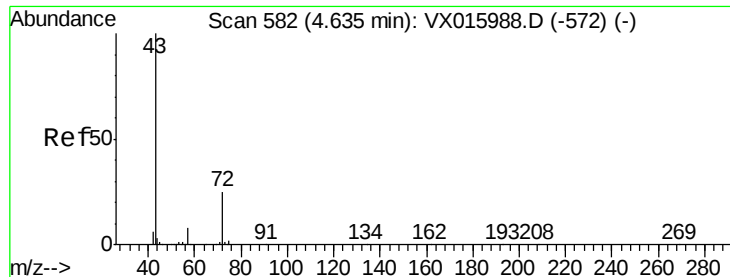
100000

50000

0

Time--> 6.70 6.80 6.90

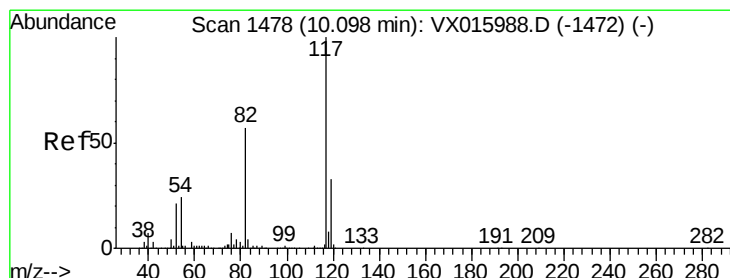
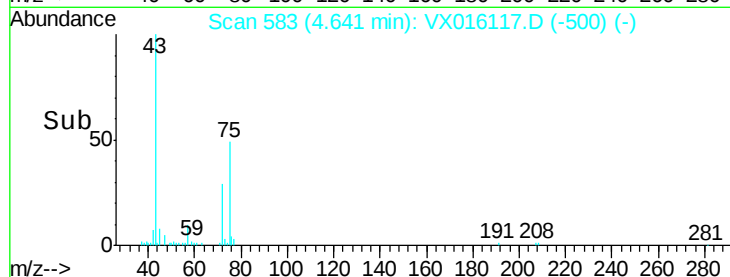
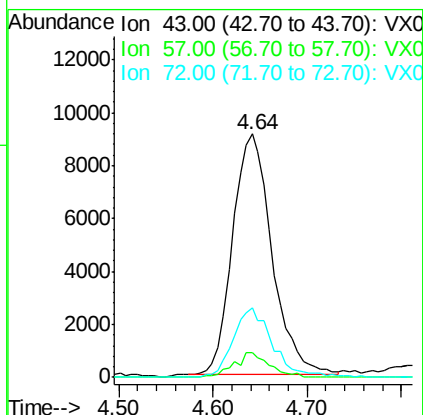
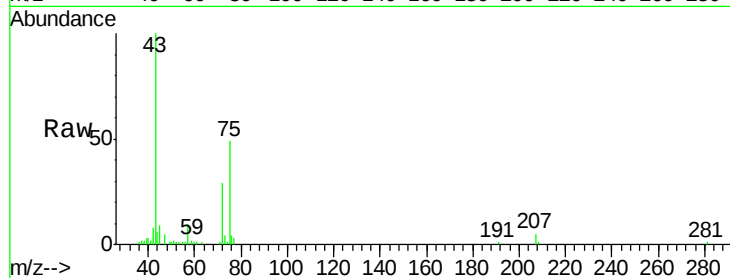




#30
2-Butanone
Concen: 10.150 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

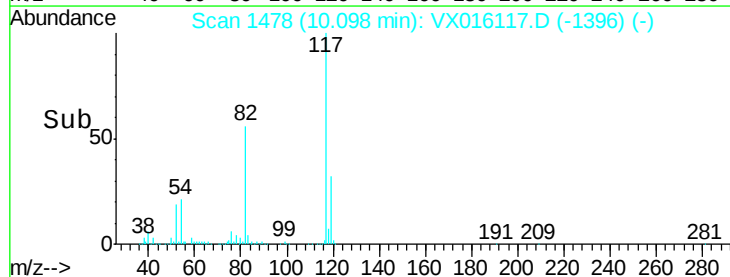
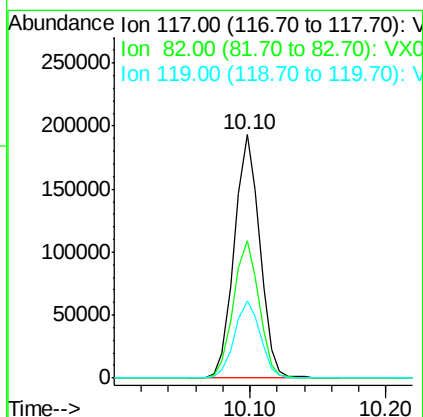
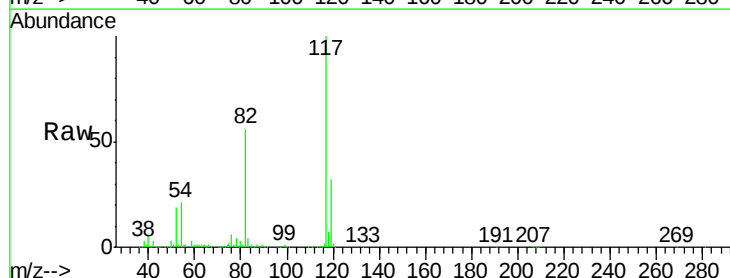
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD-(MAY)

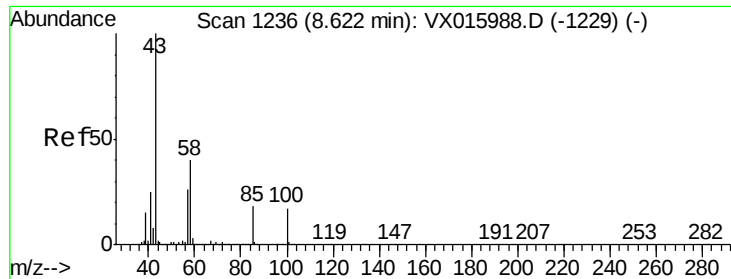
Tot Ion: 43 Resp: 26601
Ion Ratio Lower Upper
43 100
57 9.4 6.3 9.5
72 27.9 20.8 31.2



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

Tgt Ion: 117 Resp: 252711
Ion Ratio Lower Upper
117 100
82 56.6 45.1 67.7
119 32.1 25.6 38.4

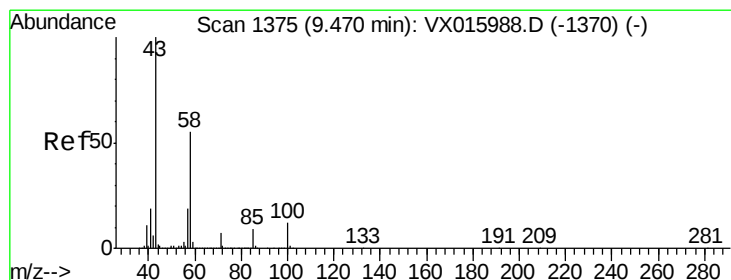
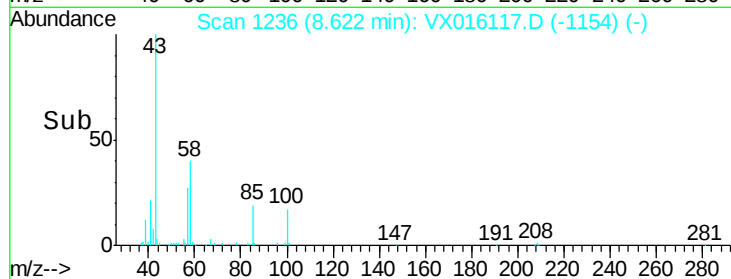
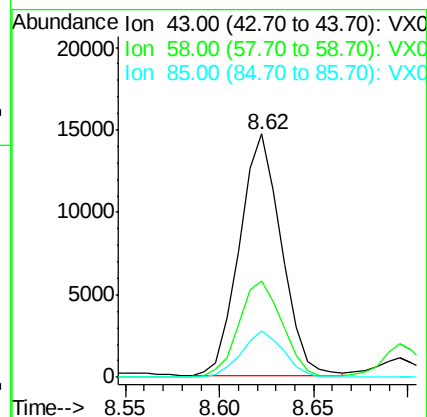
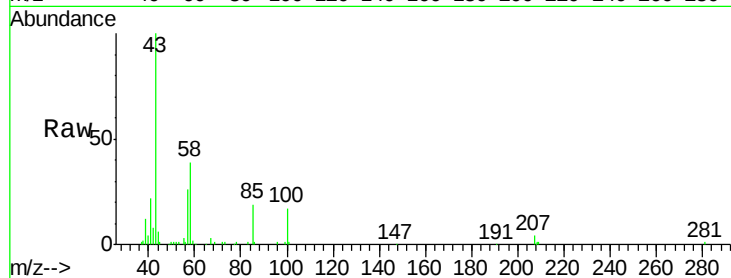




#58
4-Methyl-2-Pentanone
Concen: 4.530 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

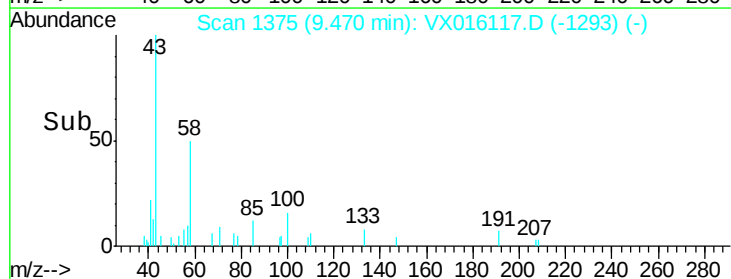
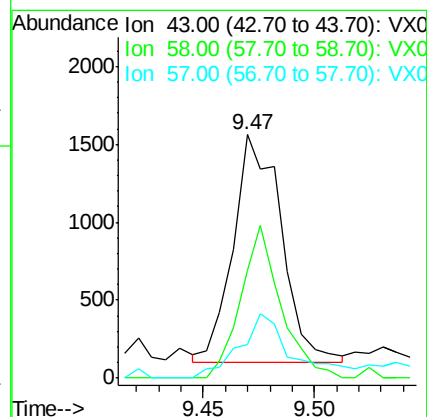
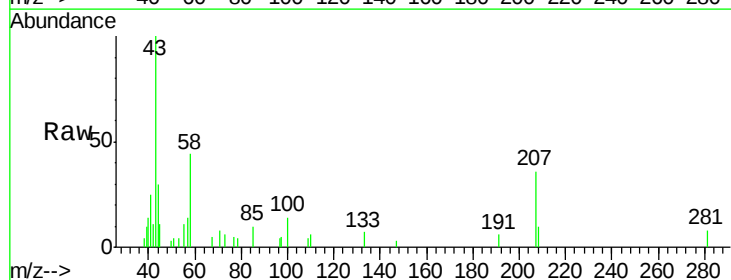
Instrument :
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001-WILLETS-PT-BLVD-(MAY)

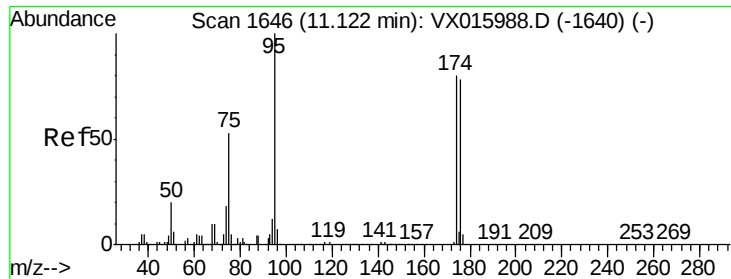
Tot Ion	Ratio	Lower	Upper
43	100		
58	41.7	31.8	47.6
85	19.3	14.5	21.7



#59
2-Hexanone
Concen: 0.571 ug/l
RT: 9.47 min Scan# 1375
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

Tgt Ion	Ratio	Lower	Upper
43	100		
58	55.6	44.0	66.0
57	31.2	15.5	23.3#

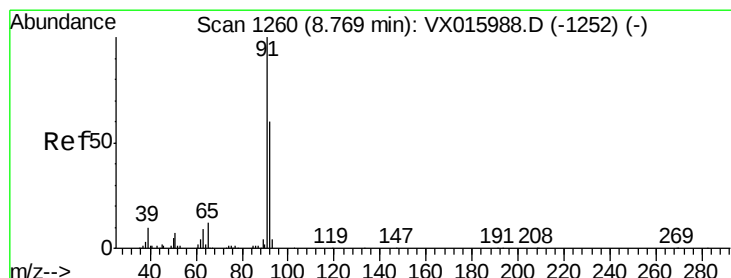
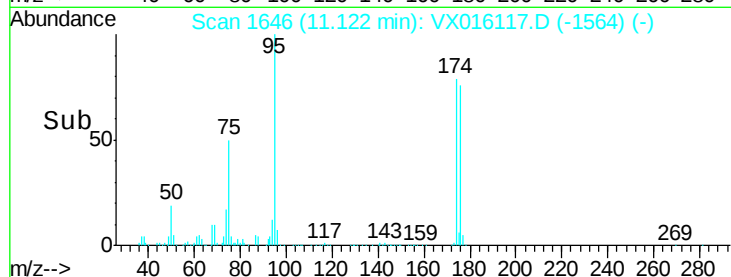
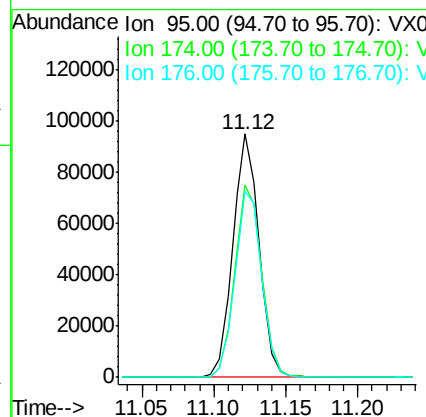
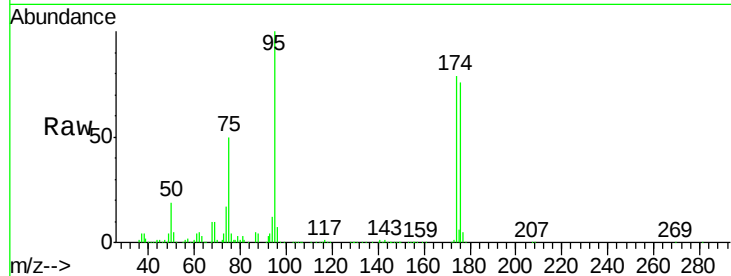




#60
4-Bromofluorobenzene
Concen: 28.455 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

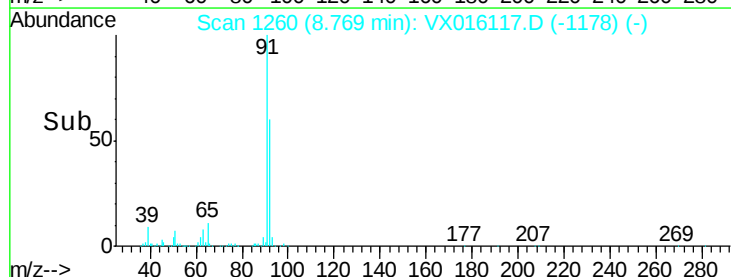
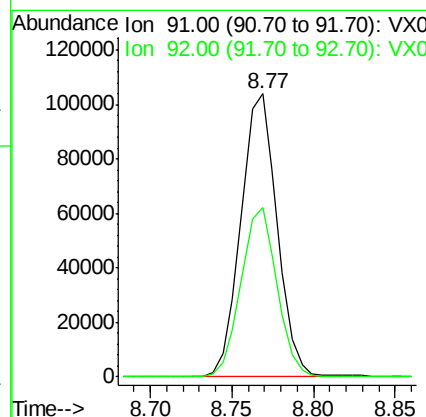
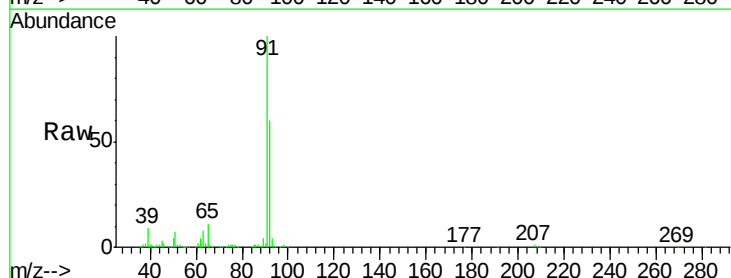
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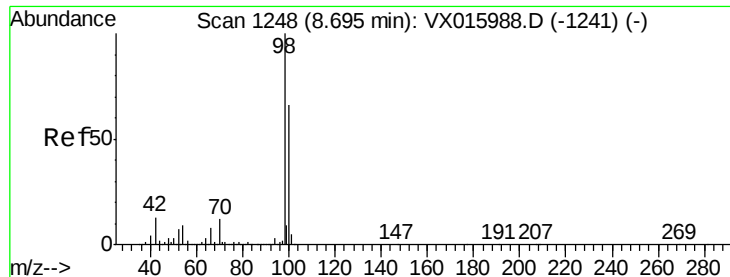
Tot Ion	95	Resp	120590
Ion Ratio	Lower	Upper	
95	100		
174	81.0	64.8	97.2
176	78.7	62.4	93.6



#62
Toluene
Concen: 11.897 ug/l
RT: 8.77 min Scan# 1260
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

Tgt Ion	91	Resp	160614
Ion Ratio	Lower	Upper	
91	100		
92	59.6	47.2	70.8





#63

Toluene-d8

Concen: 30.979 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016117.D

Acq: 08 May 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

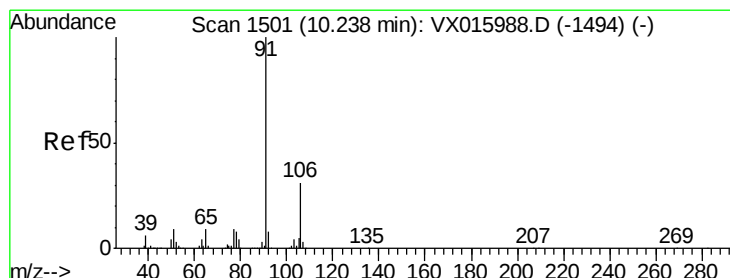
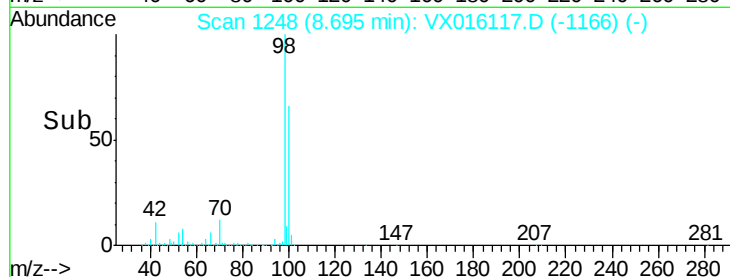
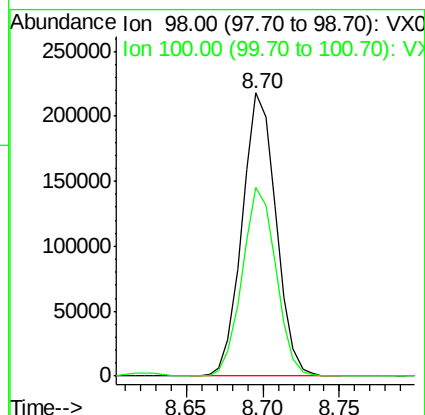
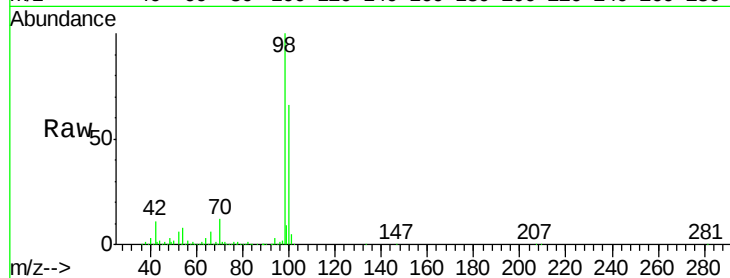
001-WILLETS-PT-BLVD-(MAY)

Tot Ion: 98 Resp: 335839

Ion Ratio Lower Upper

98 100

100 66.1 52.5 78.7



#66

Ethyl Benzene

Concen: 0.411 ug/l

RT: 10.24 min Scan# 1501

Delta R.T. 0.00 min

Lab File: VX016117.D

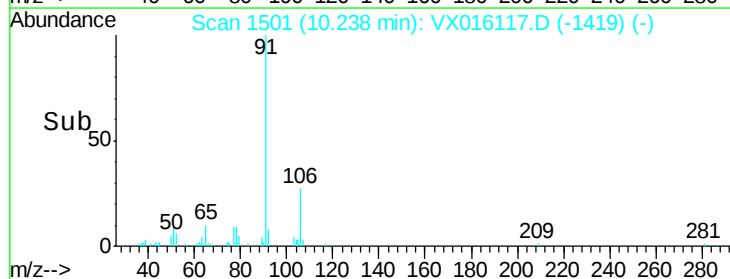
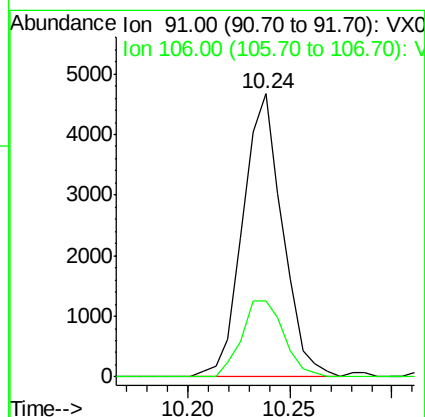
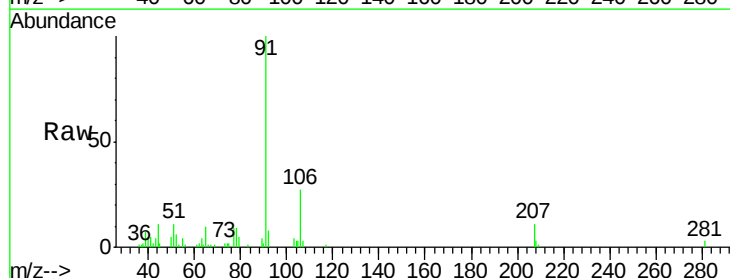
Acq: 08 May 2020 13:47

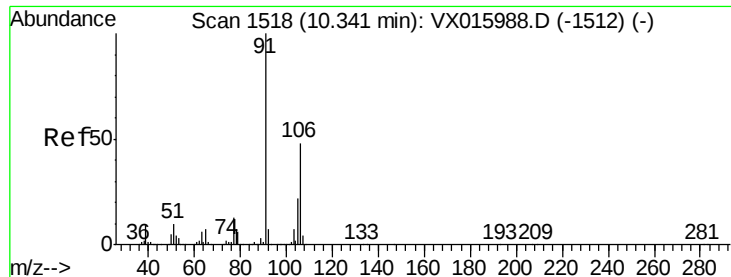
Tgt Ion: 91 Resp: 6315

Ion Ratio Lower Upper

91 100

106 26.9 24.8 37.2





#67

m/p-Xylenes

Concen: 1.612 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX016117.D

Acq: 08 May 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

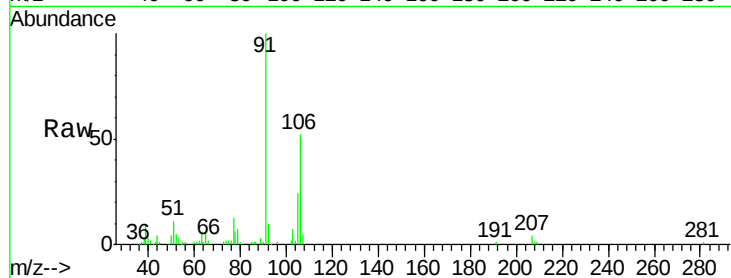
001-WILLETS-PT-BLVD-(MAY)

Tot Ion:106 Resp: 9441

Ion Ratio Lower Upper

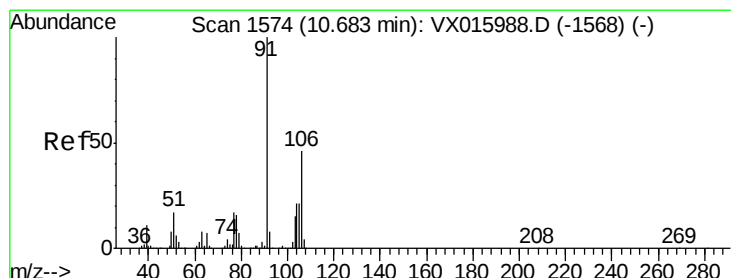
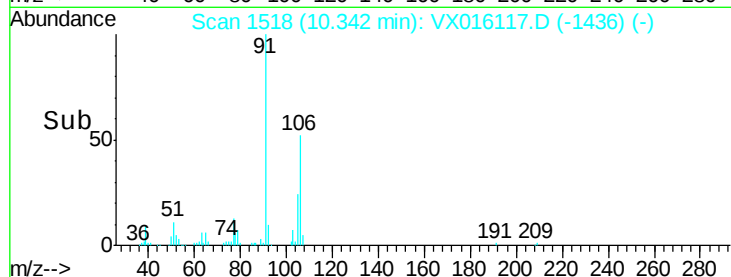
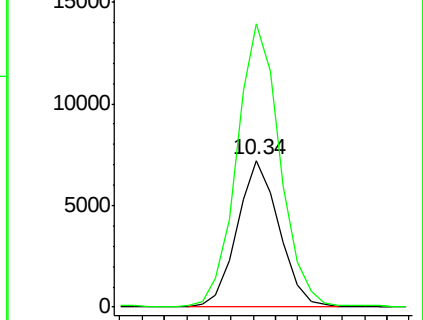
106 100

91 199.5 164.2 246.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#68

o-Xylene

Concen: 0.648 ug/l

RT: 10.68 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VX016117.D

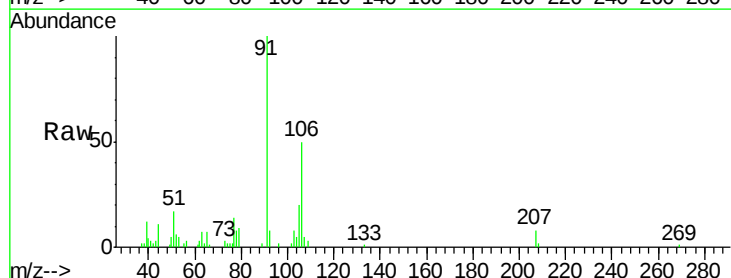
Acq: 08 May 2020 13:47

Tgt Ion:106 Resp: 3660

Ion Ratio Lower Upper

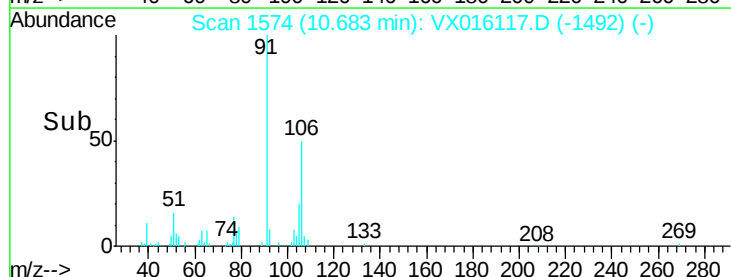
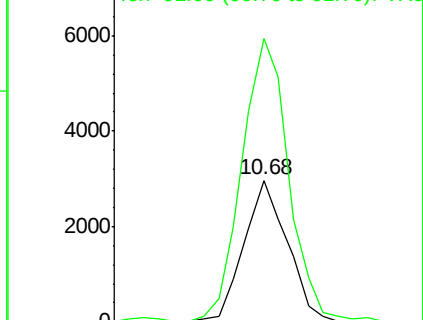
106 100

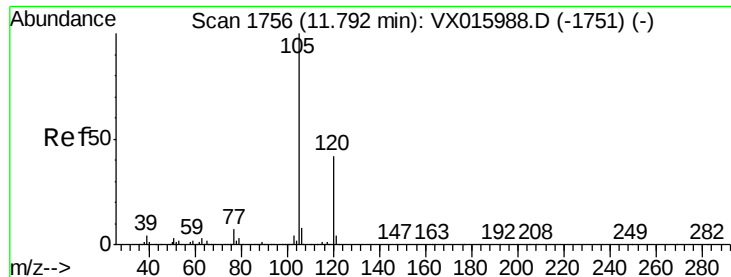
91 216.4 108.3 325.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

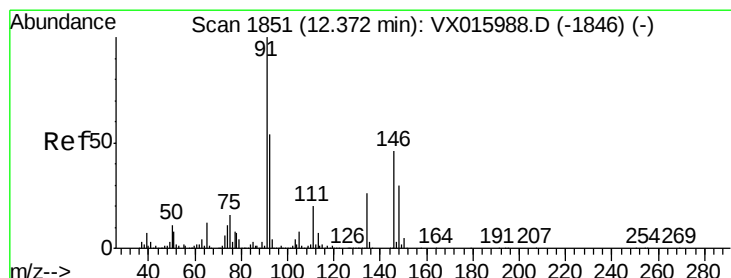
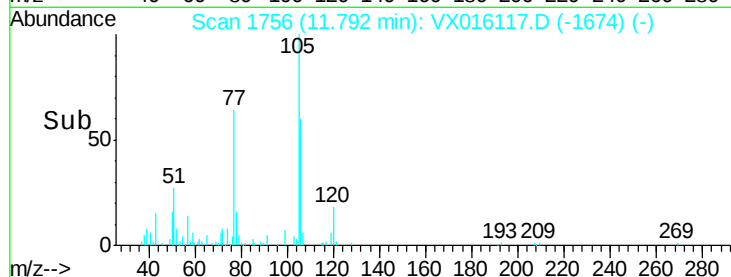
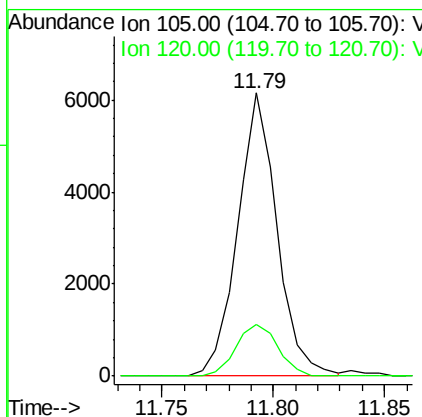
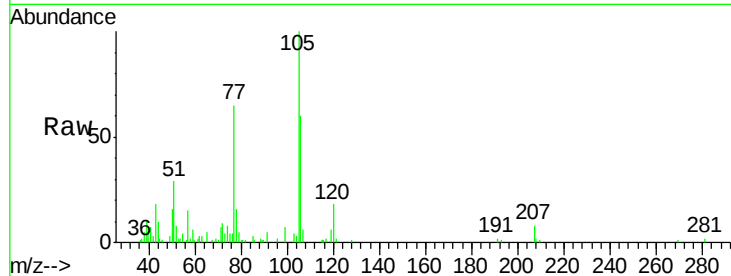




#80
 1,2,4-Trimethylbenzene
 Concen: 0.586 ug/l
 RT: 11.79 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VX016117.D
 Acq: 08 May 2020 13:47

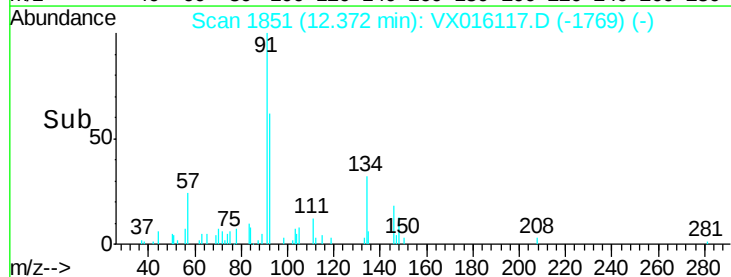
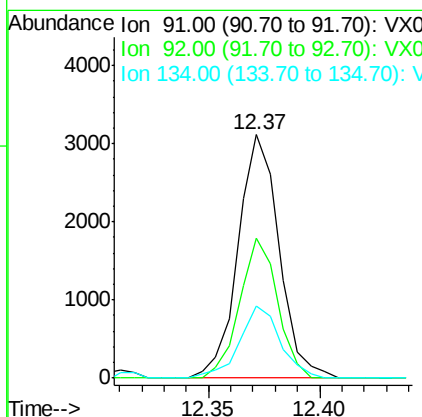
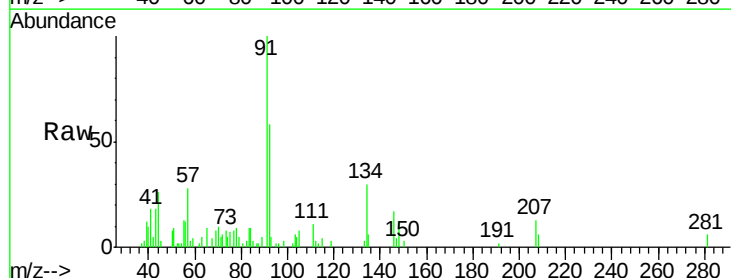
Instrument :
 MSVOA_X
 ClientSampleId :
 001-WILLETS-PT-BLVD-(MAY)

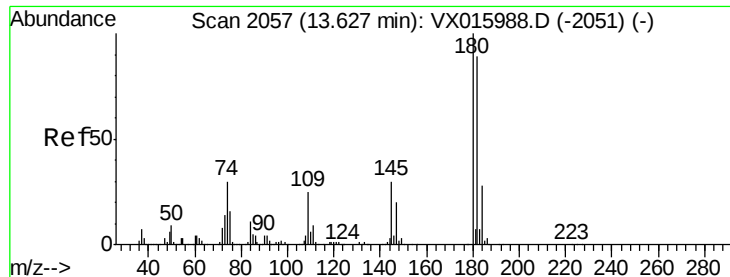
Tot Ion:105 Resp: 7577
 Ion Ratio Lower Upper
 105 100
 120 19.4 0.0 91.0



#85
 n-Butylbenzene
 Concen: 0.318 ug/l
 RT: 12.37 min Scan# 1851
 Delta R.T. 0.00 min
 Lab File: VX016117.D
 Acq: 08 May 2020 13:47

Tgt Ion: 91 Resp: 4008
 Ion Ratio Lower Upper
 91 100
 92 53.0 0.0 110.2
 134 29.5 0.0 53.4

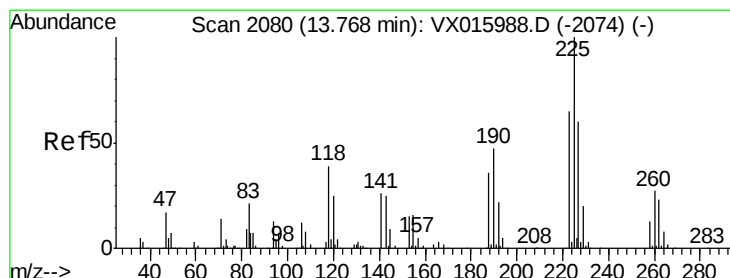
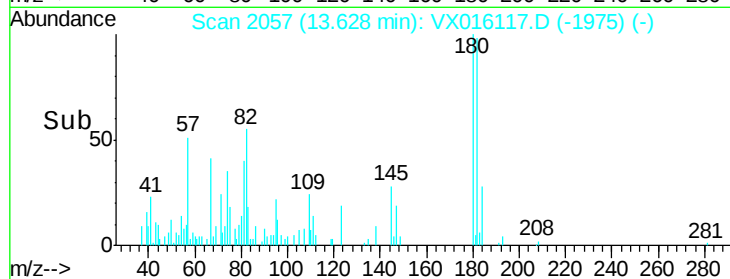
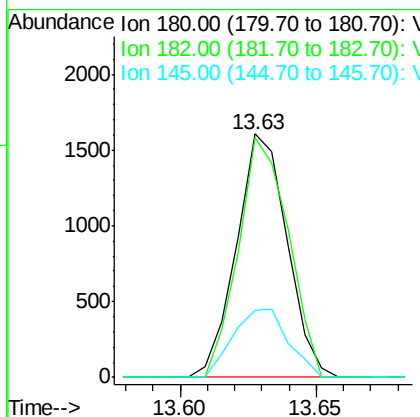
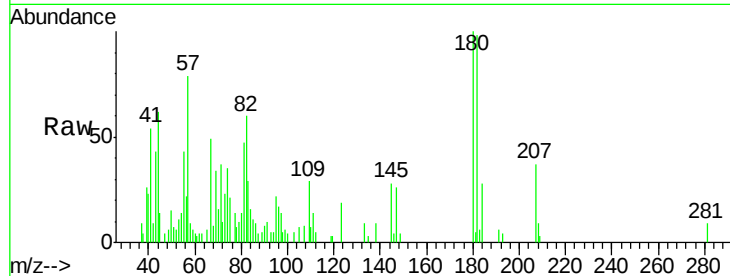




#89
 1,2,4-Trichlorobenzene
 Concen: 0.420 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX016117.D
 Acq: 08 May 2020 13:47

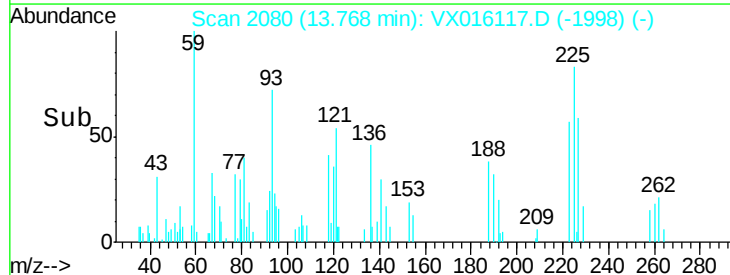
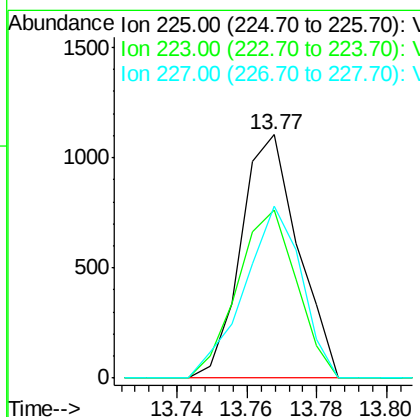
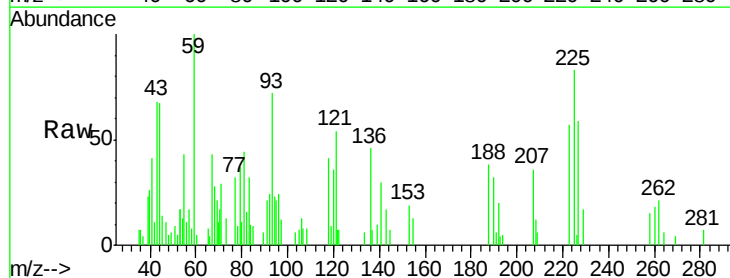
Instrument :
 MSVOA_X
 ClientSampleId :
 001-WILLETS-PT-BLVD-(MAY)

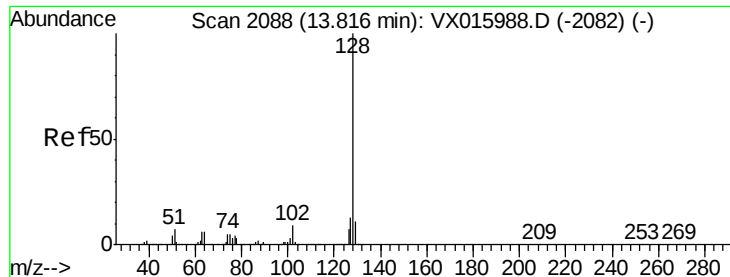
Tot Ion:180 Resp: 2074
 Ion Ratio Lower Upper
 180 100
 182 96.9 75.0 112.6
 145 30.6 23.9 35.9



#90
 Hexachlorobutadiene
 Concen: 0.590 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX016117.D
 Acq: 08 May 2020 13:47

Tgt Ion:225 Resp: 1252
 Ion Ratio Lower Upper
 225 100
 223 71.7 0.0 123.6
 227 70.7 0.0 123.6





#91

Naphthalene

Concen: 0.324 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX016117.D

Acq: 08 May 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD-(MAY)

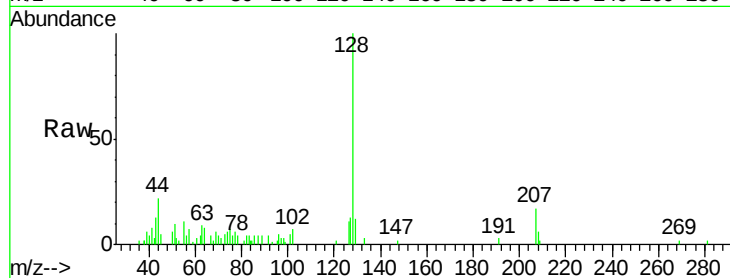
Tot Ion:128 Resp: 5084

Ion Ratio Lower Upper

128 100

127 14.6 10.5 15.7

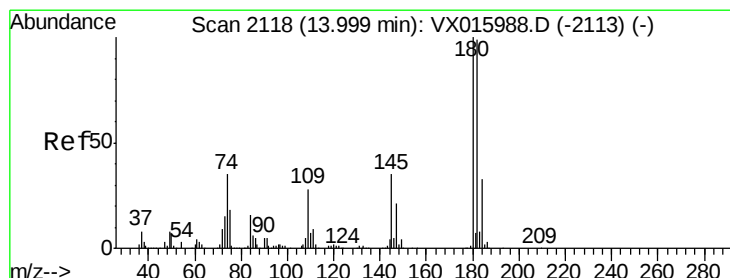
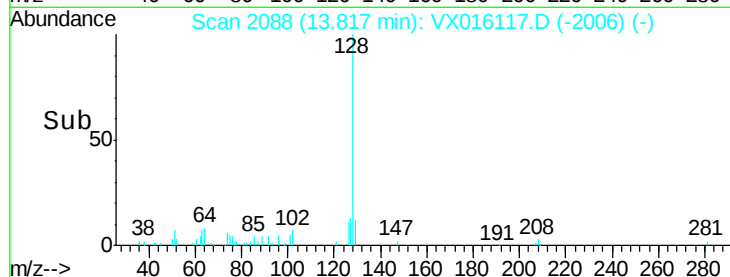
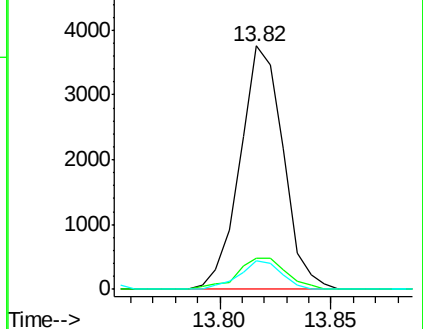
129 11.5 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 0.373 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. 0.01 min

Lab File: VX016117.D

Acq: 08 May 2020 13:47

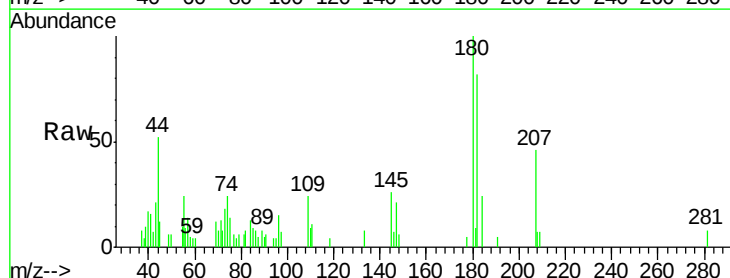
Tgt Ion:180 Resp: 1769

Ion Ratio Lower Upper

180 100

182 93.4 0.0 197.2

145 33.0 0.0 66.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

