

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100919\
 Data File : VX012948.D
 Acq On : 09 Oct 2019 17:19
 Operator : JC/SP
 Sample : K5238-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-COMP

Quant Time: Oct 10 01:38:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 01:51:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	175863	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	294799	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	248945	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	90362	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	115334	52.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.94%	
35) Dibromofluoromethane	5.49	113	87609	51.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.56%	
50) Toluene-d8	8.71	98	345615	52.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.74%	
62) 4-Bromofluorobenzene	11.14	95	112869	44.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.04%	

Target Compounds

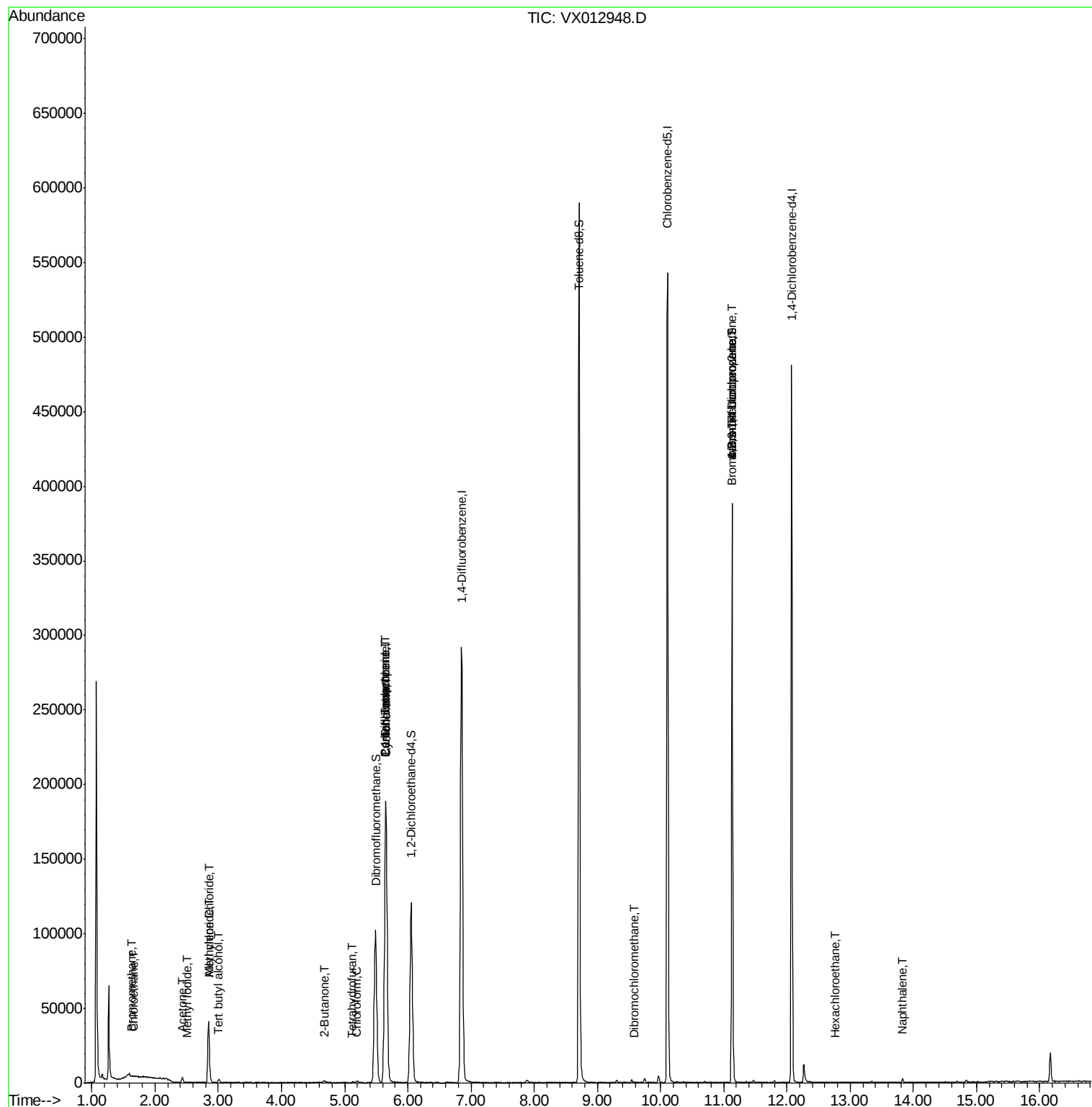
						Qvalue
5) Bromomethane	1.64	94	249	0.297	ug/l #	80
6) Chloroethane	1.66	64	544	0.807	ug/l #	49
10) Methyl Iodide	2.51	142	45	5.102	ug/l #	40
11) Tert butyl alcohol	3.01	59	1642	2.818	ug/l #	72
14) Allyl chloride	2.84	41	923	0.292	ug/l #	29
16) Acetone	2.43	43	4034	3.482	ug/l	94
20) Methylene Chloride	2.84	84	19724	9.263	ug/l	96
25) 2-Butanone	4.69	43	417	0.259	ug/l #	49
29) Tetrahydrofuran	5.12	42	217	0.219	ug/l #	63
30) Chloroform	5.20	83	1230	0.351	ug/l #	70
31) Cyclohexane	5.66	56	3894	1.221	ug/l #	32
36) 1,1-Dichloropropene	5.65	75	14199	5.478	ug/l #	49
38) Carbon Tetrachloride	5.65	117	18559	7.357	ug/l #	19
60) Dibromochloromethane	9.58	129	70	1.888	ug/l #	10
71) Bromoform	11.12	173	135	3.219	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	56407	28.144	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	56407	70.545	ug/l #	10
90) Hexachloroethane	12.75	117	186	2.283	ug/l #	13
95) Naphthalene	13.83	128	1963	0.317	ug/l	96

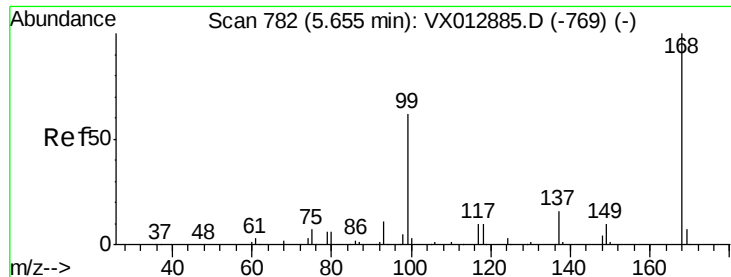
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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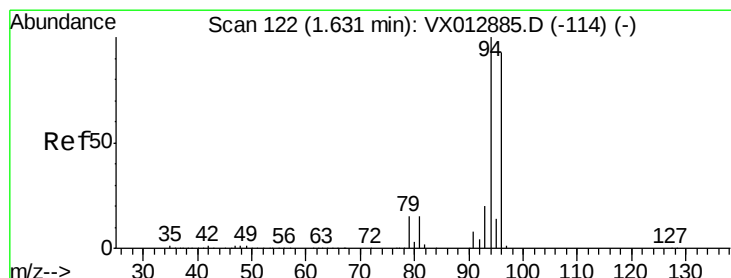
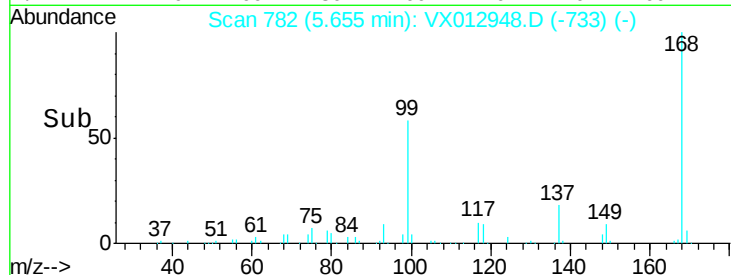
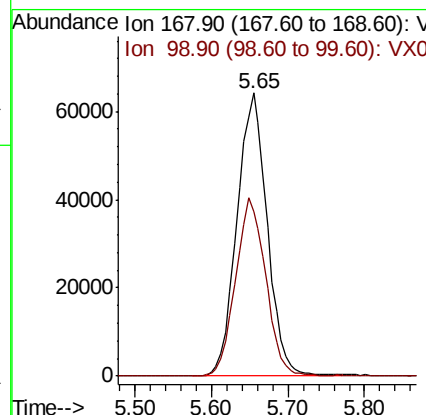
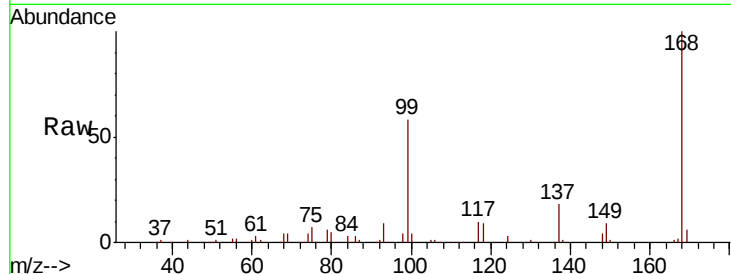




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.00 min
Lab File: VX012948.D
Acq: 09 Oct 2019 17:19

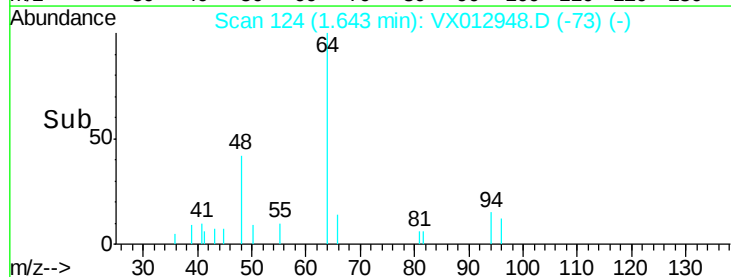
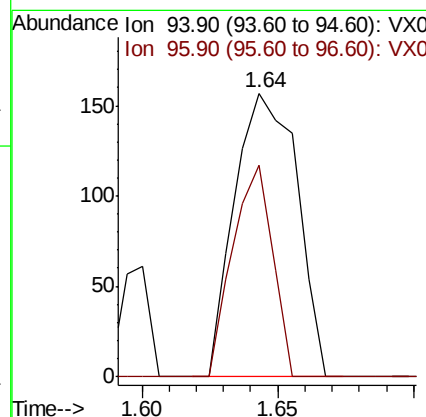
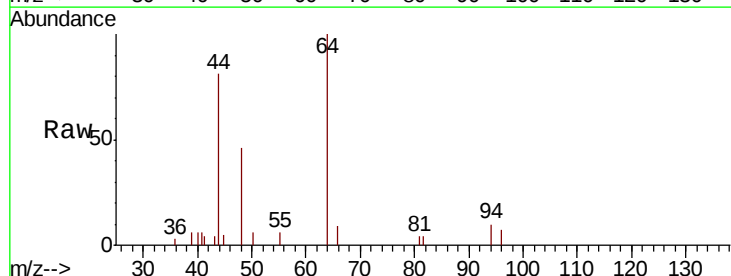
Instrument :
MSVOA_X
ClientSampleId :
TP-COMP

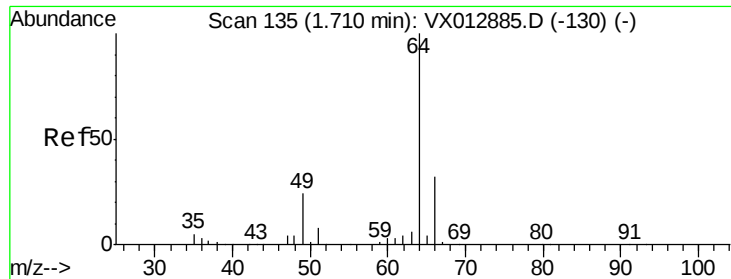
Tot Ion:168 Resp: 175863
Ion Ratio Lower Upper
168 100
99 58.3 49.4 74.0



#5
Bromomethane
Concen: 0.297 ug/l
RT: 1.64 min Scan# 124
Delta R.T. 0.01 min
Lab File: VX012948.D
Acq: 09 Oct 2019 17:19

Tgt Ion: 94 Resp: 249
Ion Ratio Lower Upper
94 100
96 74.5 74.7 112.1#





#6

Chloroethane

Concen: 0.807 ug/l

RT: 1.66 min Scan# 126

Delta R.T. -0.05 min

Lab File: VX012948.D

Acq: 09 Oct 2019 17:19

Instrument :

MSVOA_X

ClientSampleId :

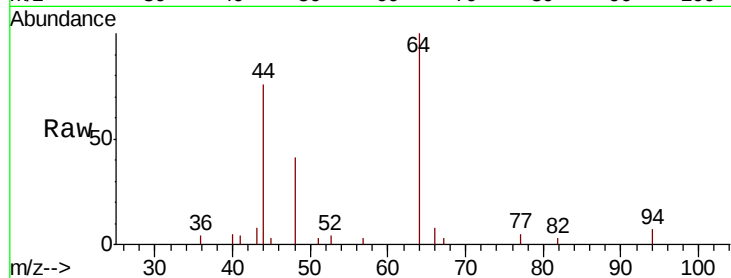
TP-COMP

Tot Ion: 64 Resp: 544

Ion Ratio Lower Upper

64 100

66 3.8 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX012885.D (-130) (-)

Ion 65.90 (65.60 to 66.60): VX012885.D (-130) (-)

1.66

1.64

1.66

1.68

1.70

1.72

1.74

1.76

1.78

1.80

1.82

1.84

1.86

1.88

1.90

1.92

1.94

1.96

1.98

2.00

2.02

2.04

2.06

2.08

2.10

2.12

2.14

2.16

2.18

2.20

2.22

2.24

2.26

2.28

2.30

2.32

2.34

2.36

2.38

2.40

2.42

2.44

2.46

2.48

2.50

2.52

2.54

2.56

2.58

2.60

2.62

2.64

2.66

2.68

2.70

2.72

2.74

2.76

2.78

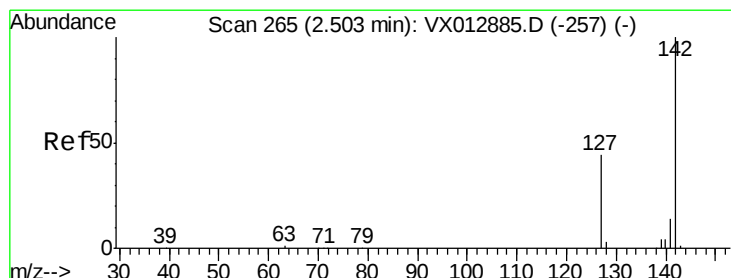
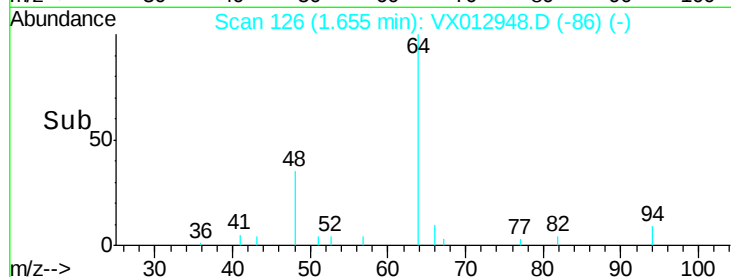
2.80

2.82

2.84

2.86

2.88



#10

Methyl Iodide

Concen: 5.102 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012948.D

Acq: 09 Oct 2019 17:19

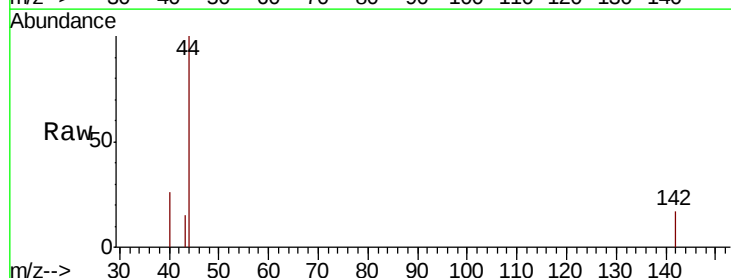
Tgt Ion: 142 Resp: 45

Ion Ratio Lower Upper

142 100

127 0.0 34.9 52.3#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): VX012885.D (-257) (-)

Ion 126.80 (126.50 to 127.50): VX012885.D (-257) (-)

Ion 140.80 (140.50 to 141.50): VX012885.D (-257) (-)

2.51

2.50

2.52

2.54

2.56

2.58

2.60

2.62

2.64

2.66

2.68

2.70

2.72

2.74

2.76

2.78

2.80

2.82

2.84

2.86

2.88

2.90

2.92

2.94

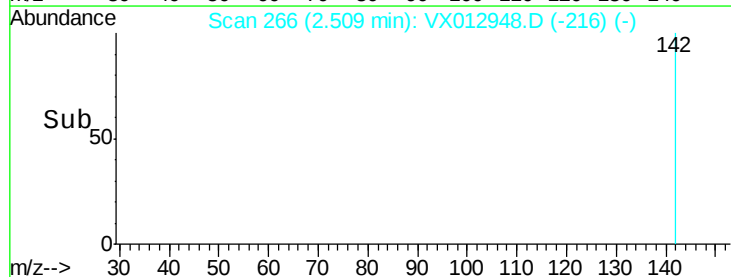
2.96

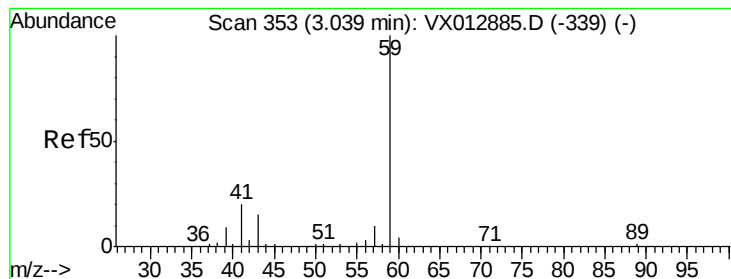
2.98

3.00

3.02

3.04



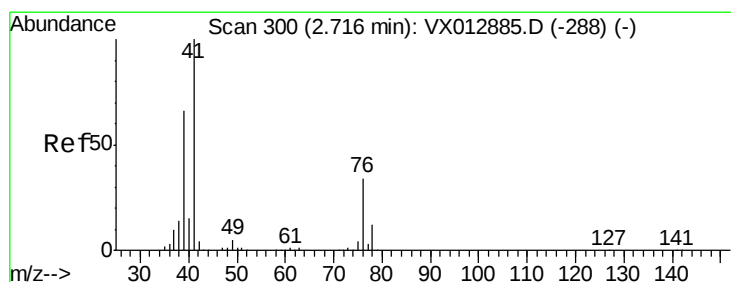
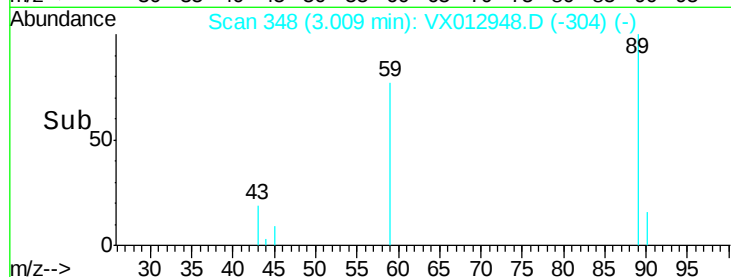
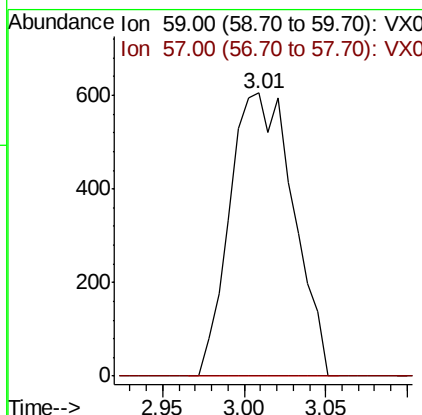
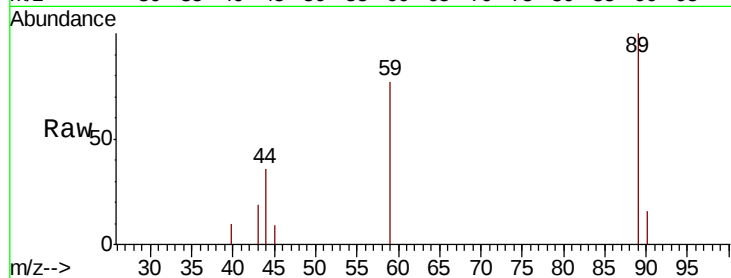


#11

Tert butyl alcohol
 Concen: 2.818 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.03 min
 Lab File: VX012948.D
 Acq: 09 Oct 2019 17:19

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-COMP

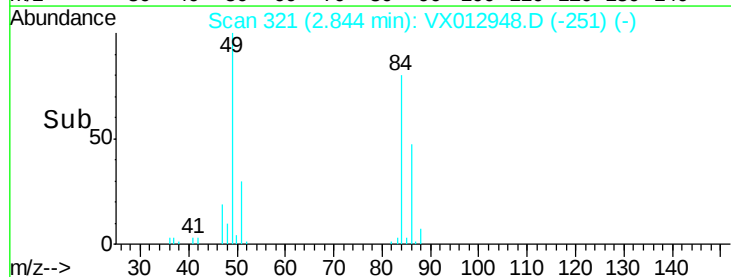
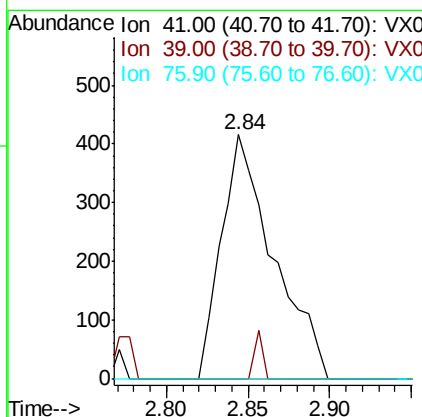
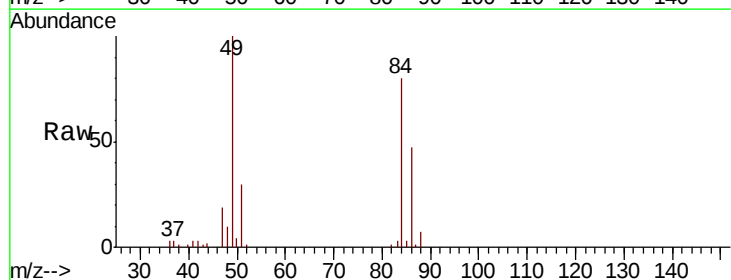
Tot Ion: 59 Resp: 1642
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

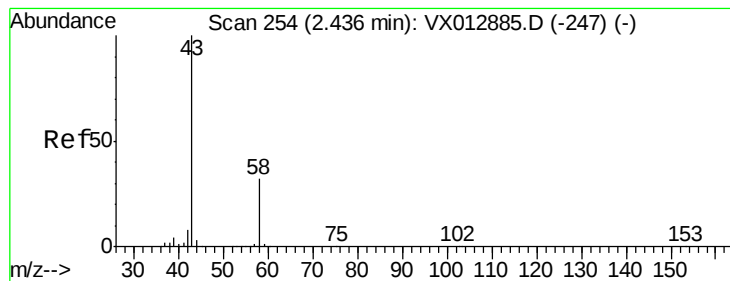


#14

Allyl chloride
 Concen: 0.292 ug/l
 RT: 2.84 min Scan# 321
 Delta R.T. 0.13 min
 Lab File: VX012948.D
 Acq: 09 Oct 2019 17:19

Tgt Ion: 41 Resp: 923
 Ion Ratio Lower Upper
 41 100
 39 3.3 51.0 76.6#
 76 0.0 26.2 39.4#





#16

Acetone

Concen: 3.482 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012948.D

Acq: 09 Oct 2019 17:19

Instrument :

MSVOA_X

ClientSampled :

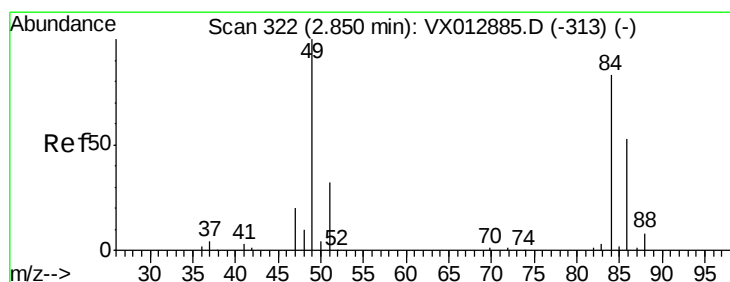
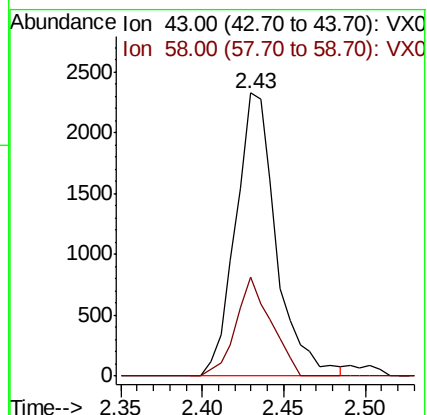
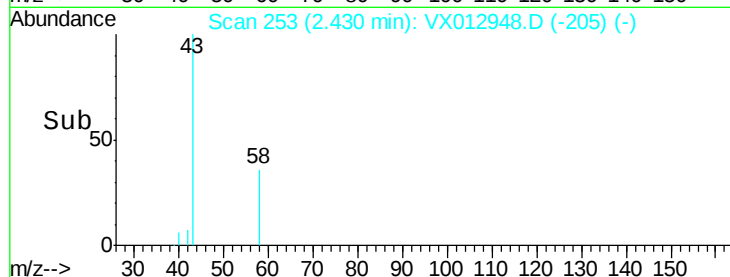
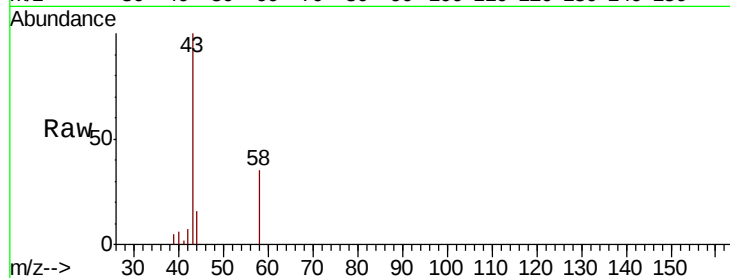
TP-COMP

Tot Ion: 43 Resp: 4034

Ion Ratio Lower Upper

43 100

58 35.2 25.4 38.2



#20

Methylene Chloride

Concen: 9.263 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.01 min

Lab File: VX012948.D

Acq: 09 Oct 2019 17:19

Tgt Ion: 84 Resp: 19724

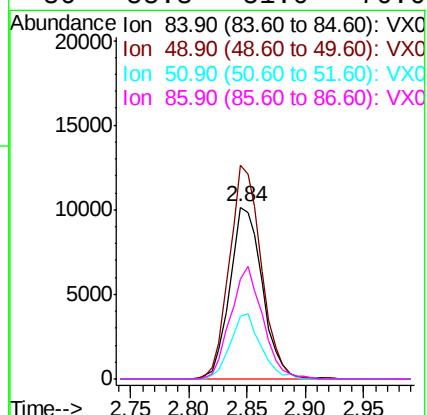
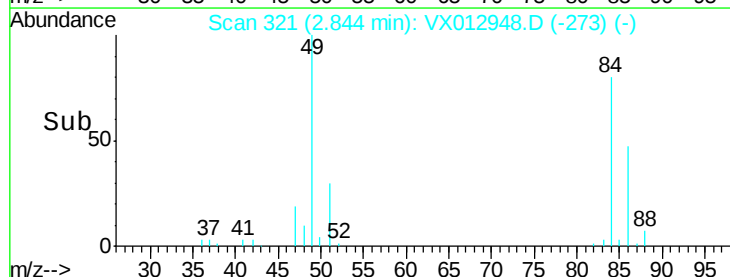
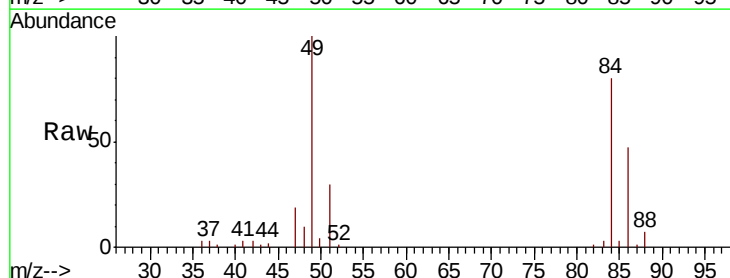
Ion Ratio Lower Upper

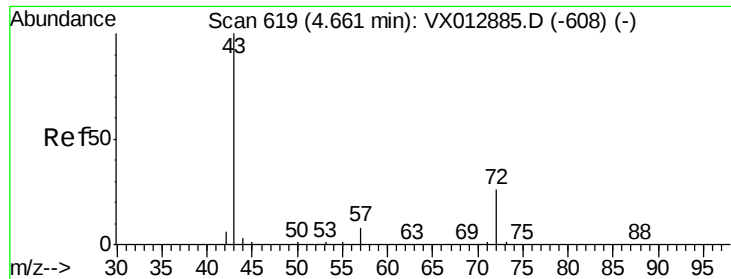
84 100

49 124.3 96.6 144.8

51 36.9 30.7 46.1

86 58.3 51.0 76.6





#25

2-Butanone

Concen: 0.259 ug/l

RT: 4.69 min Scan# 624

Delta R.T. 0.03 min

Lab File: VX012948.D

Acq: 09 Oct 2019 17:19

Instrument :

MSVOA_X

ClientSampleId :

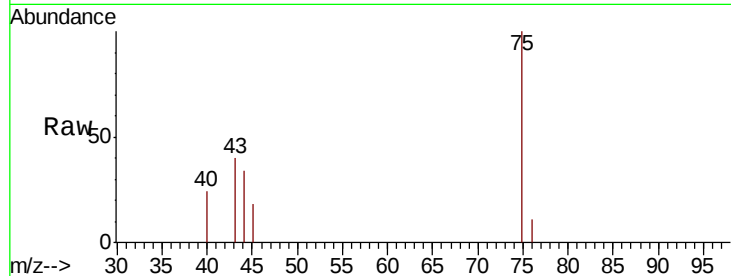
TP-COMP

Tot Ion: 43 Resp: 417

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

250

200

150

100

50

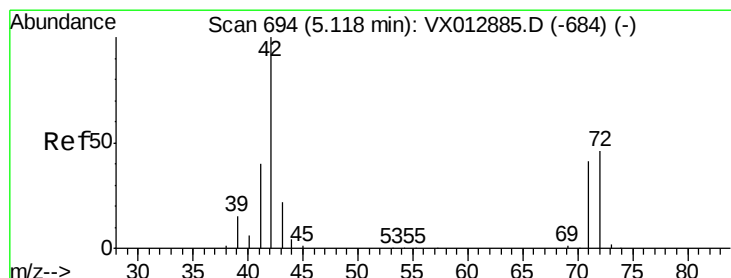
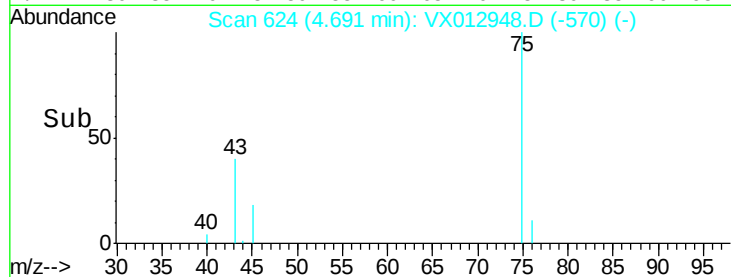
0

4.65

4.69

4.70

Time-->



#29

Tetrahydrofuran

Concen: 0.219 ug/l

RT: 5.12 min Scan# 694

Delta R.T. -0.00 min

Lab File: VX012948.D

Acq: 09 Oct 2019 17:19

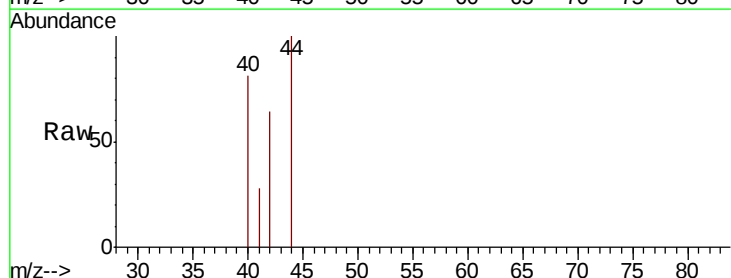
Tgt Ion: 42 Resp: 217

Ion Ratio Lower Upper

42 100

72 10.1 36.9 55.3#

71 53.5 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

250

200

150

100

50

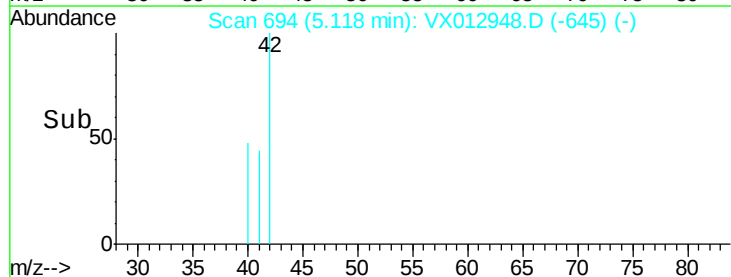
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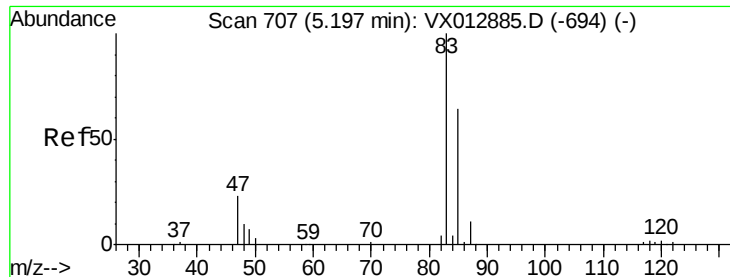
5.10

5.12

5.14

Time-->

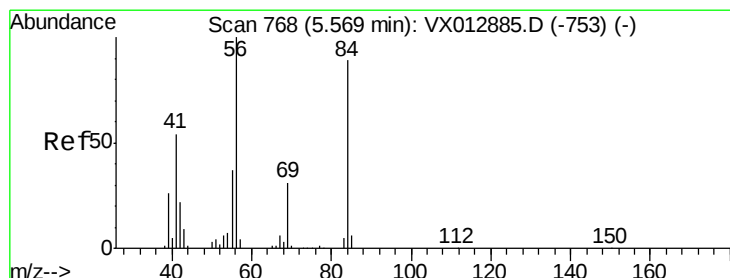
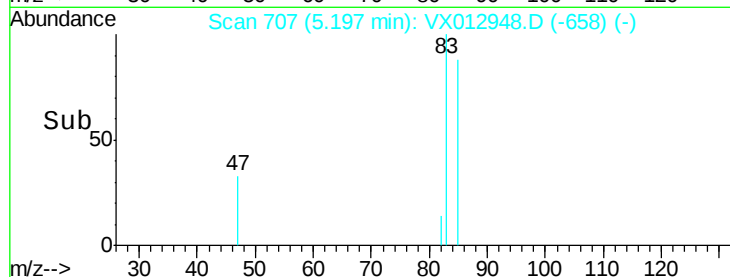
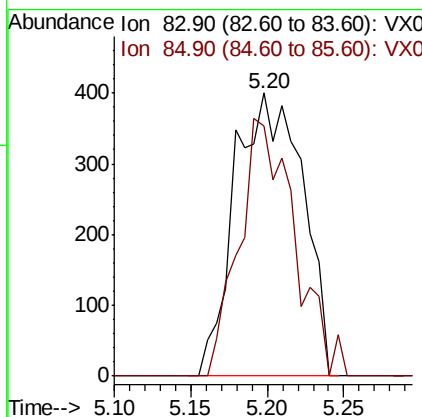
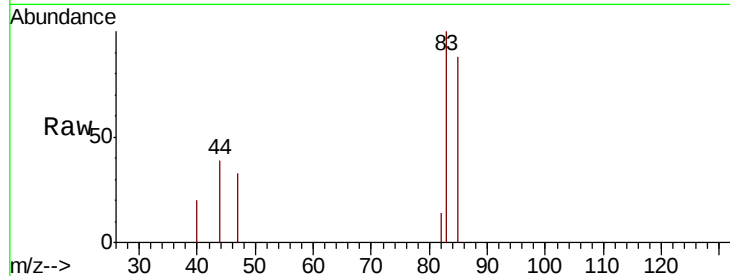




#30
Chloroform
Concen: 0.351 ug/l
RT: 5.20 min Scan# 707
Delta R.T. -0.00 min
Lab File: VX012948.D
Acq: 09 Oct 2019 17:19

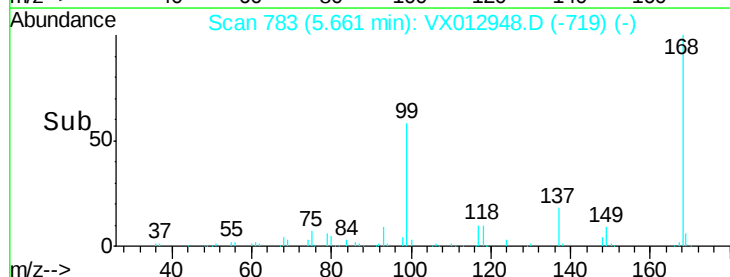
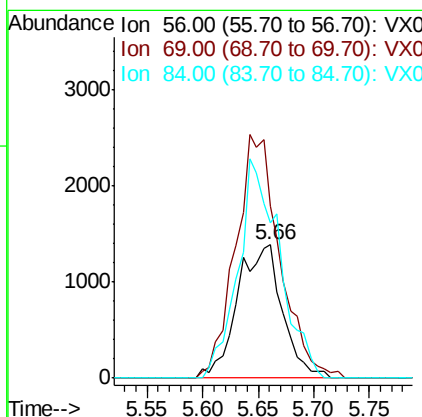
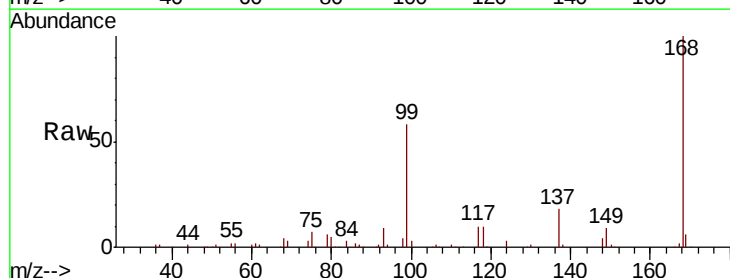
Instrument :
MSVOA_X
ClientSampleId :
TP-COMP

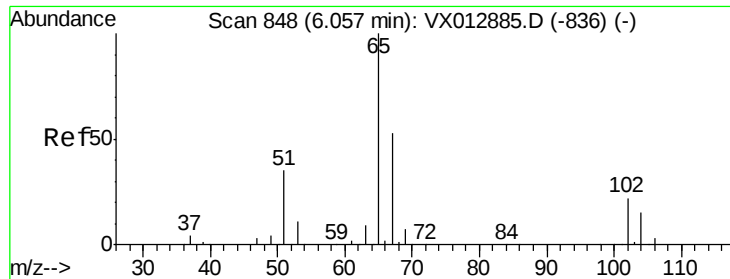
Tot Ion: 83 Resp: 1230
Ion Ratio Lower Upper
83 100
85 88.3 51.5 77.3#



#31
Cyclohexane
Concen: 1.221 ug/l
RT: 5.66 min Scan# 783
Delta R.T. 0.09 min
Lab File: VX012948.D
Acq: 09 Oct 2019 17:19

Tgt Ion: 56 Resp: 3894
Ion Ratio Lower Upper
56 100
69 128.8 25.2 37.8#
84 116.8 71.3 106.9#





#33

1,2-Dichloroethane-d4

Concen: 52.471 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.01 min

Lab File: VX012948.D

Acq: 09 Oct 2019 17:19

Instrument :

MSVOA_X

ClientSampleId :

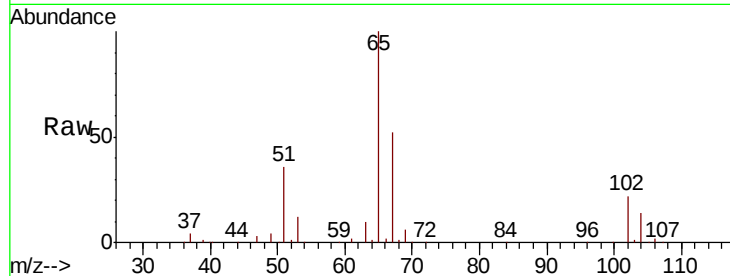
TP-COMP

Tot Ion: 65 Resp: 115334

Ion Ratio Lower Upper

65 100

67 52.3 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

50000

40000

30000

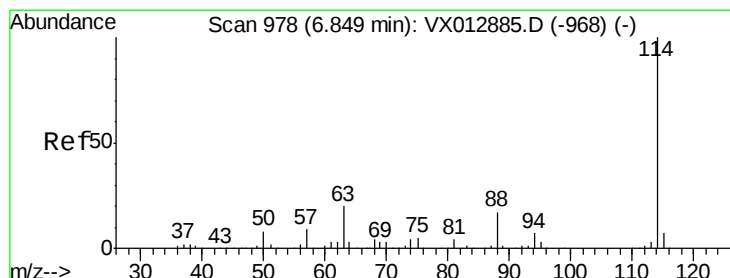
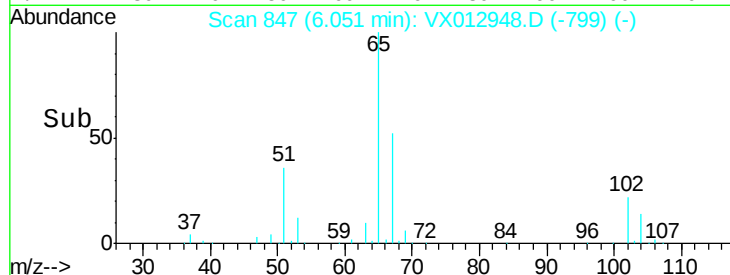
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012948.D

Acq: 09 Oct 2019 17:19

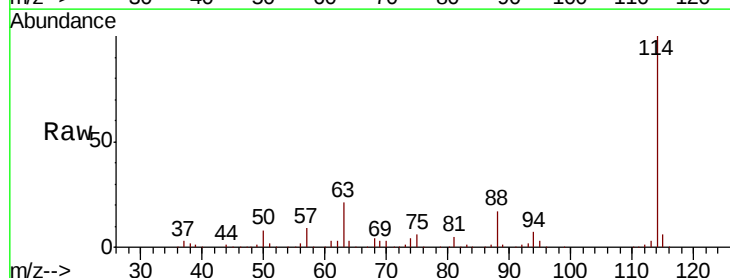
Tgt Ion: 114 Resp: 294799

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.8

88 17.4 0.0 33.8



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

6.85

150000

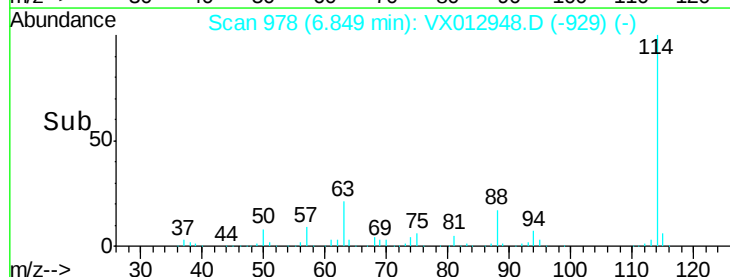
100000

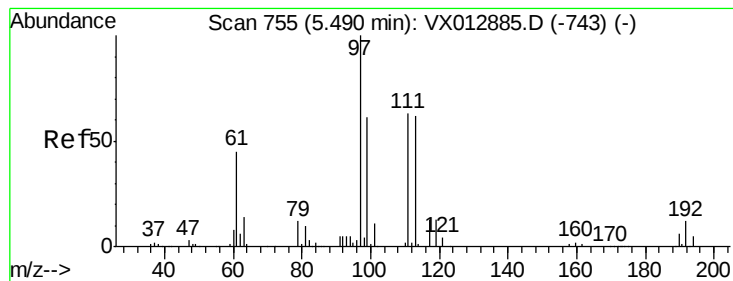
50000

0

Time-->

6.70 6.80 6.90 7.00 7.10





#35

Dibromofluoromethane

Concen: 51.779 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX012948.D

Acq: 09 Oct 2019 17:19

Instrument :

MSVOA_X

ClientSampleId :

TP-COMP

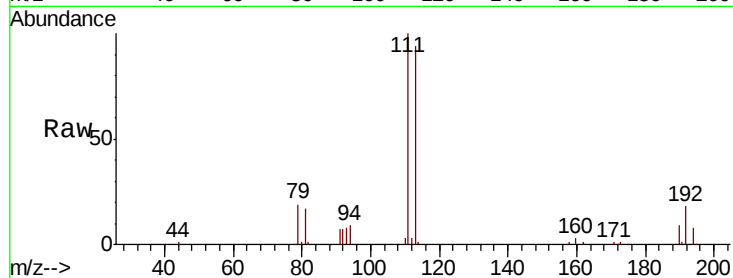
Tot Ion:113 Resp: 87609

Ion Ratio Lower Upper

113 100

111 102.5 83.2 124.8

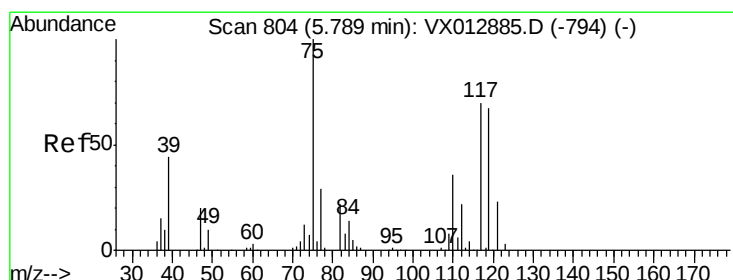
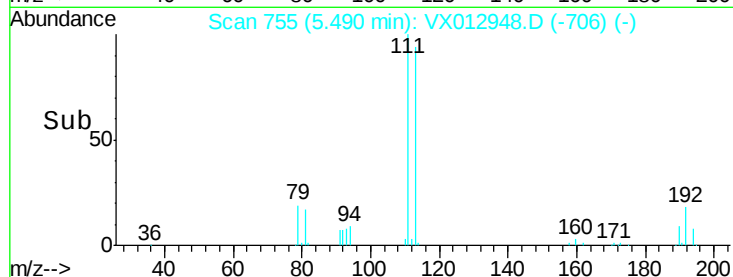
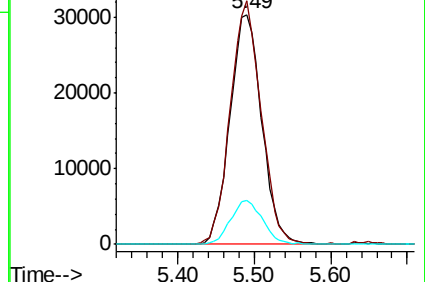
192 19.4 15.4 23.2



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: 5.478 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012948.D

Acq: 09 Oct 2019 17:19

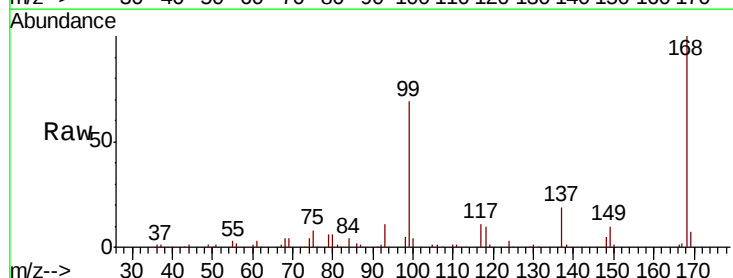
Tgt Ion: 75 Resp: 14199

Ion Ratio Lower Upper

75 100

110 7.7 17.6 52.9#

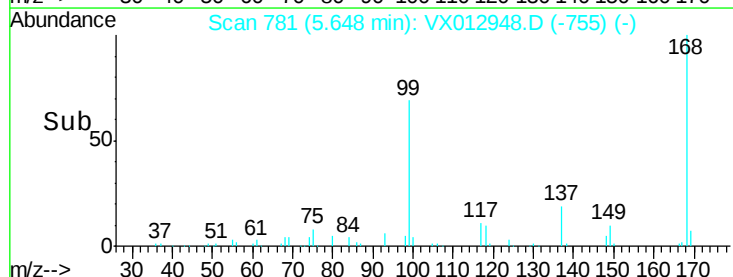
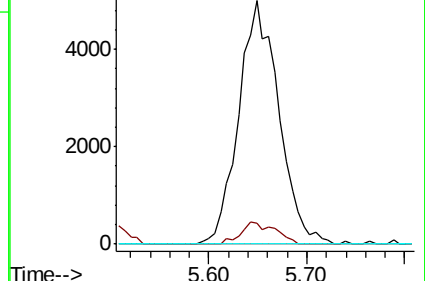
77 0.0 24.4 36.6#

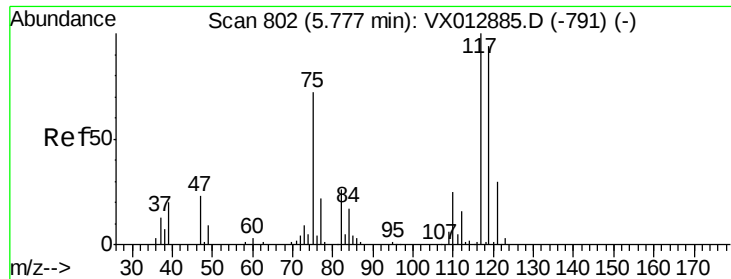


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

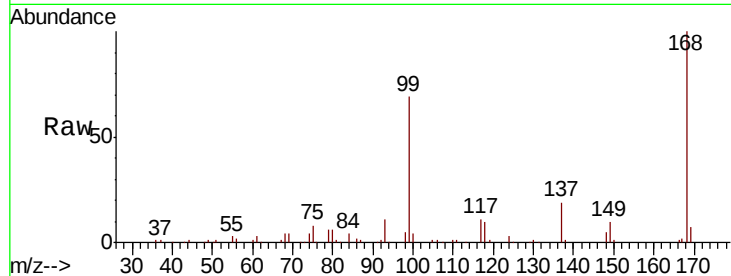




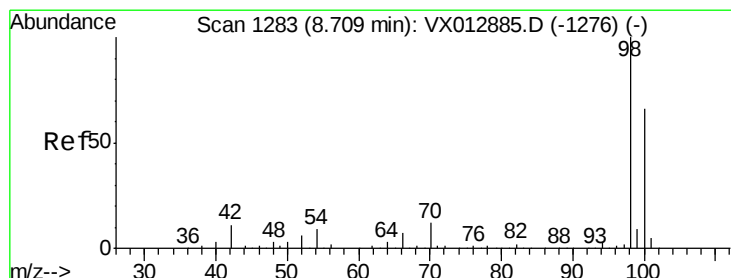
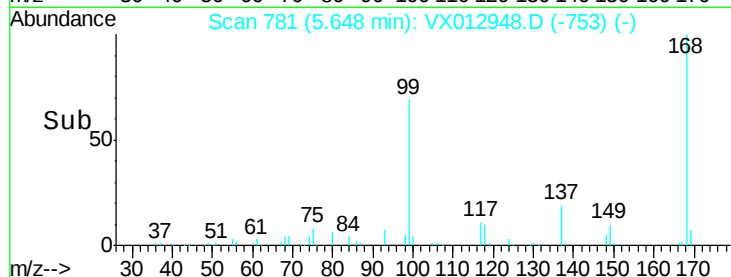
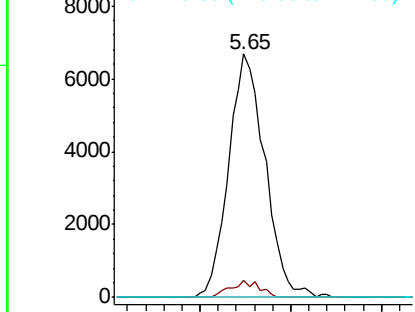
#38
Carbon Tetrachloride
Concen: 7.357 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX012948.D
Acq: 09 Oct 2019 17:19

Instrument :
MSVOA_X
ClientSampleId :
TP-COMP

Tot Ion:117 Resp: 18559
Ion Ratio Lower Upper
117 100
119 7.0 74.5 111.7#
121 0.0 24.2 36.4#

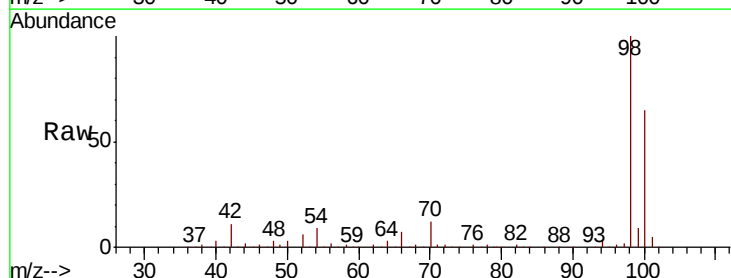


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

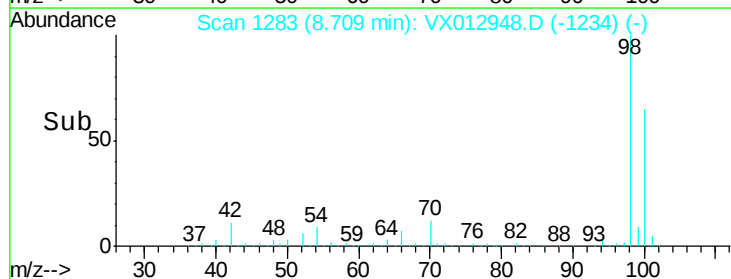
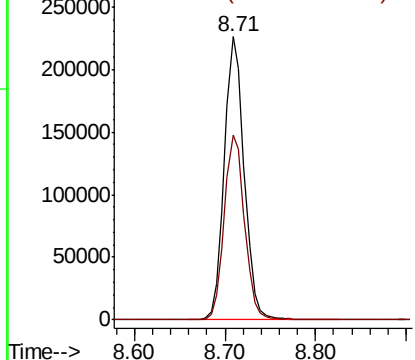


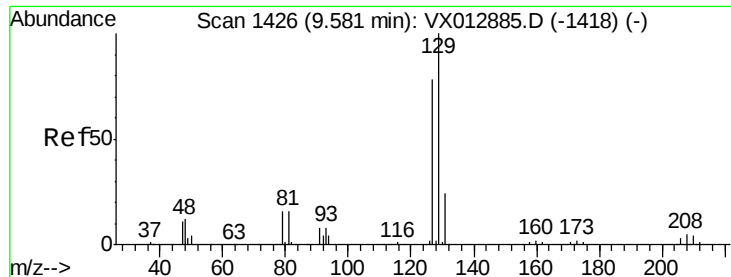
#50
Toluene-d8
Concen: 52.372 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX012948.D
Acq: 09 Oct 2019 17:19

Tgt Ion: 98 Resp: 345615
Ion Ratio Lower Upper
98 100
100 66.9 53.4 80.2



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





#60

Dibromochloromethane

Concen: 1.888 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.00 min

Lab File: VX012948.D

Acq: 09 Oct 2019 17:19

Instrument :

MSVOA_X

ClientSampleId :

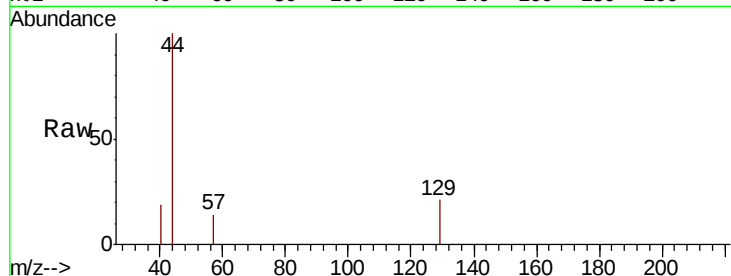
TP-COMP

Tot Ion:129 Resp: 70

Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.58

80

60

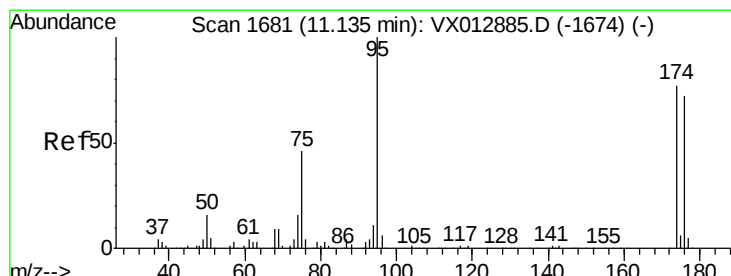
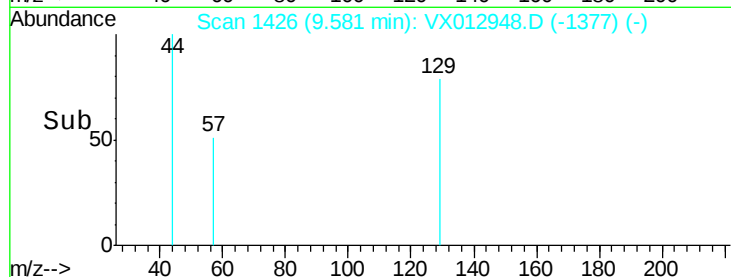
40

20

0

9.56 9.58 9.60

Time-->



#62

4-Bromofluorobenzene

Concen: 44.018 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012948.D

Acq: 09 Oct 2019 17:19

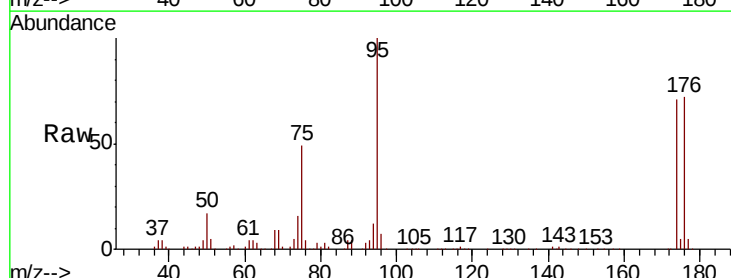
Tgt Ion: 95 Resp: 112869

Ion Ratio Lower Upper

95 100

174 70.5 0.0 143.4

176 68.0 0.0 136.0



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

11.14

100000

80000

60000

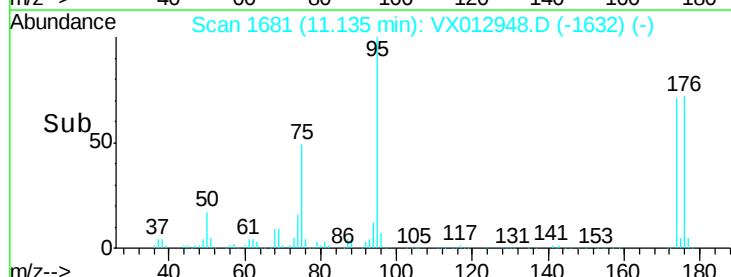
40000

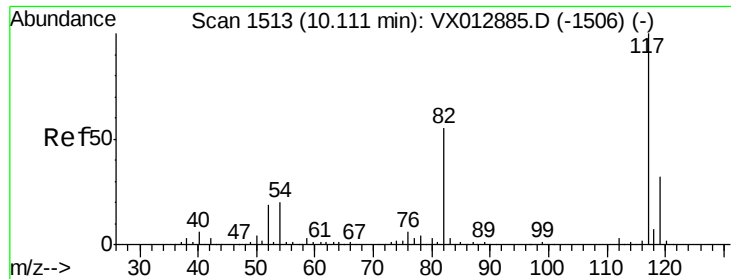
20000

0

11.10 11.14 11.20

Time-->

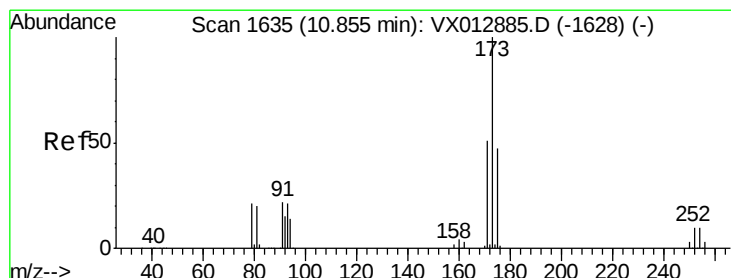
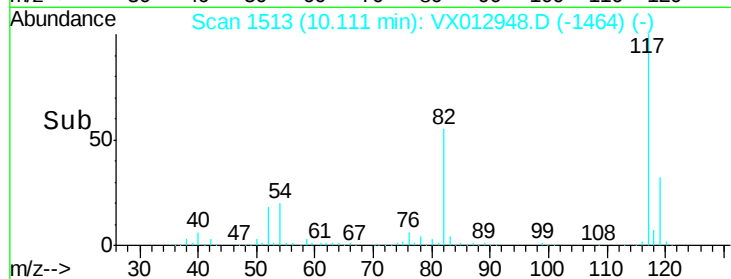
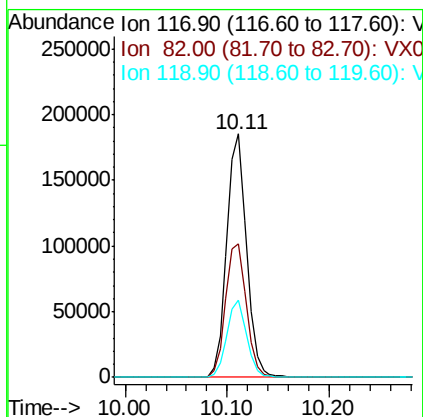
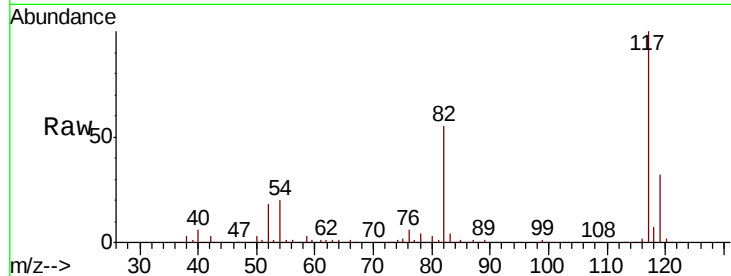




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012948.D
Acq: 09 Oct 2019 17:19

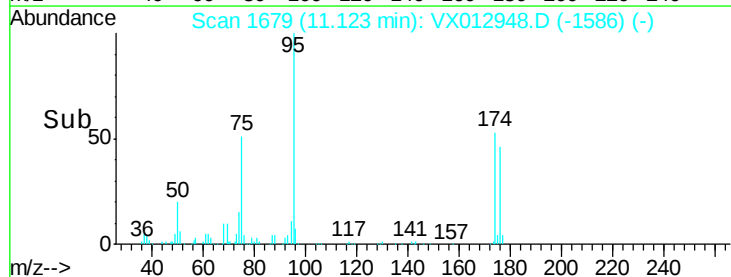
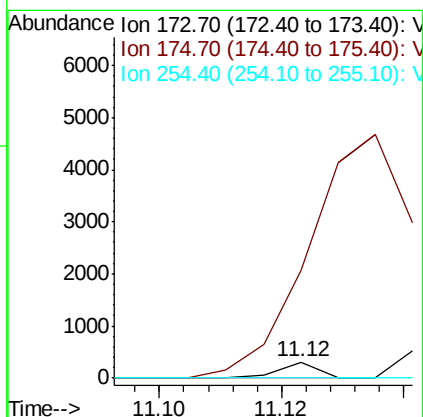
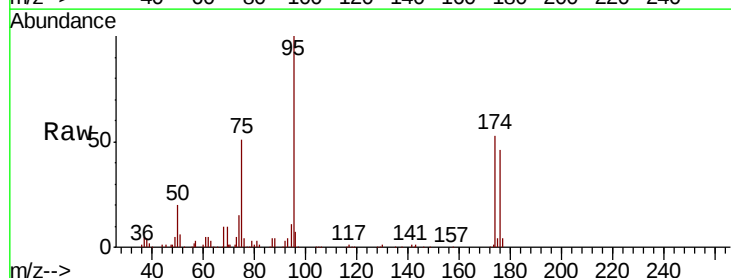
Instrument :
MSVOA_X
ClientSampleId :
TP-COMP

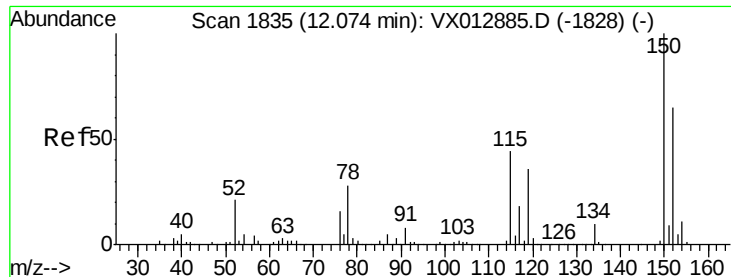
Tot Ion:117 Resp: 248945
Ion Ratio Lower Upper
117 100
82 55.0 44.1 66.1
119 31.6 25.8 38.8



#71
Bromoform
Concen: 3.219 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.27 min
Lab File: VX012948.D
Acq: 09 Oct 2019 17:19

Tgt Ion:173 Resp: 135
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.3#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012948.D

Acq: 09 Oct 2019 17:19

Instrument :

MSVOA_X

ClientSampleId :

TP-COMP

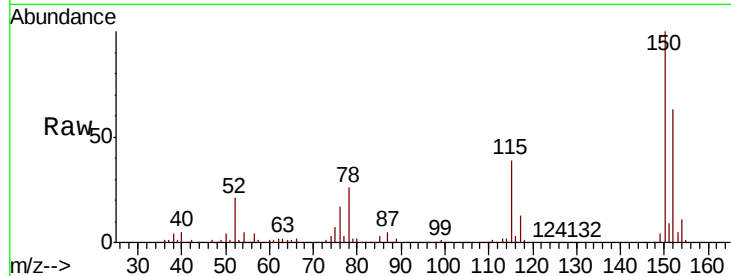
Tot Ion:152 Resp: 90362

Ion Ratio Lower Upper

152 100

115 64.4 44.5 133.5

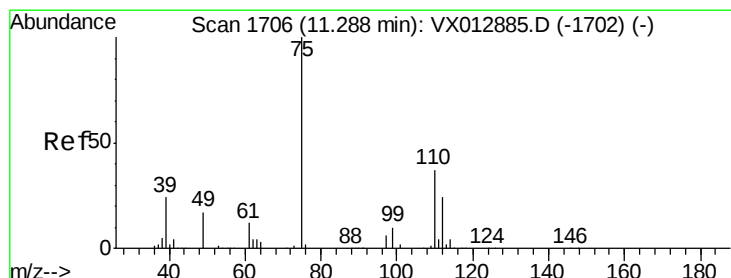
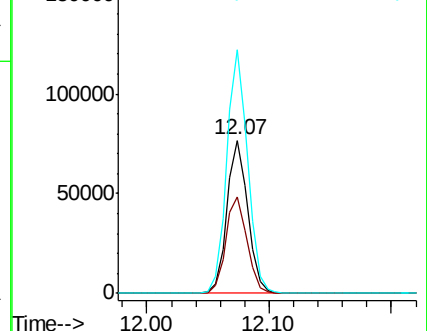
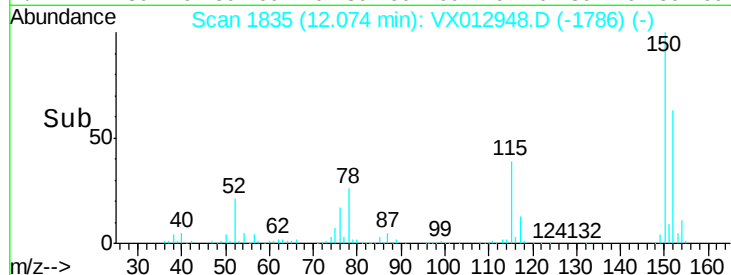
150 160.0 0.0 353.4



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: 28.144 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012948.D

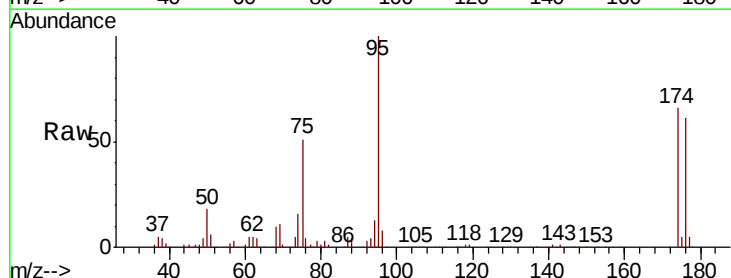
Acq: 09 Oct 2019 17:19

Tgt Ion: 75 Resp: 56407

Ion Ratio Lower Upper

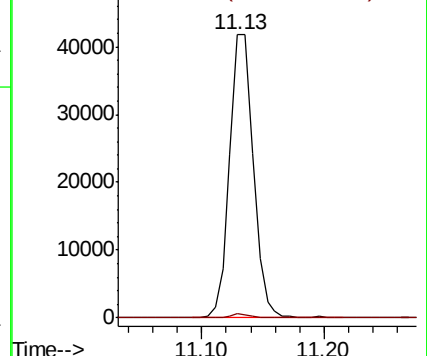
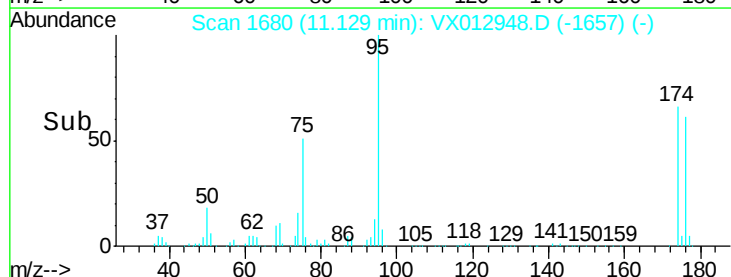
75 100

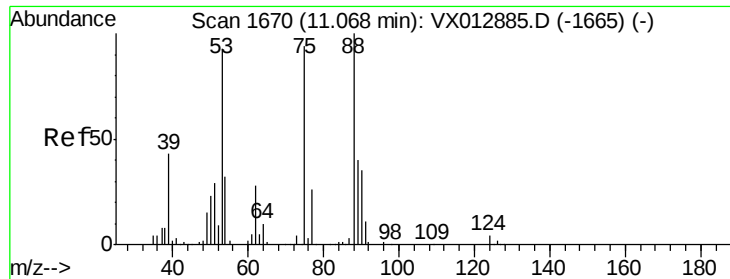
77 1.1 22.9 68.8#



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: 70.545 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012948.D

Acq: 09 Oct 2019 17:19

Instrument :

MSVOA_X

ClientSampleId :

TP-COMP

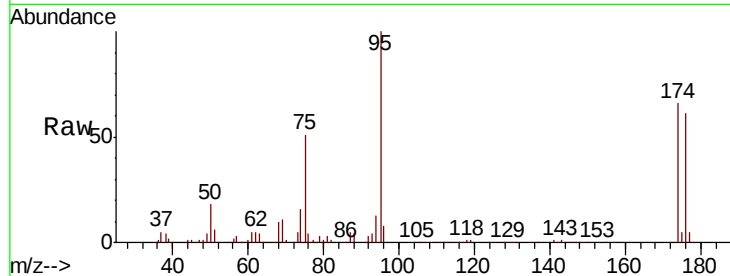
Tot Ion: 75 Resp: 56407

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

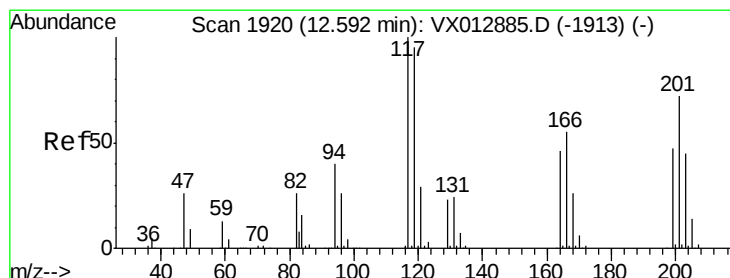
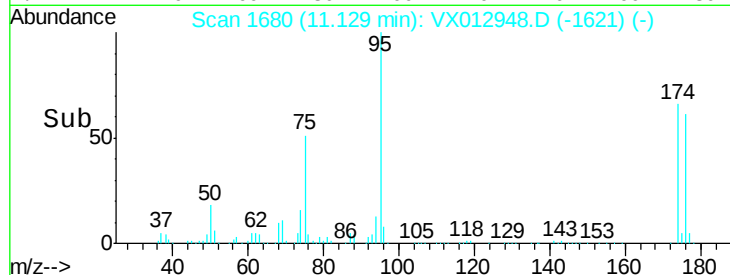
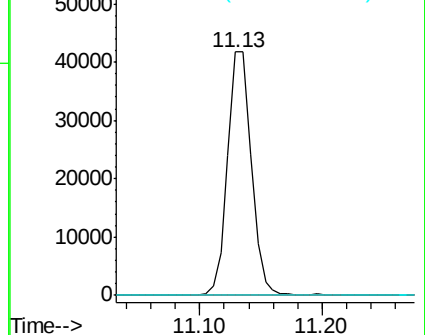
89 0.0 37.4 56.2#



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



#90

Hexachloroethane

Concen: 2.283 ug/l

RT: 12.75 min Scan# 1946

Delta R.T. 0.16 min

Lab File: VX012948.D

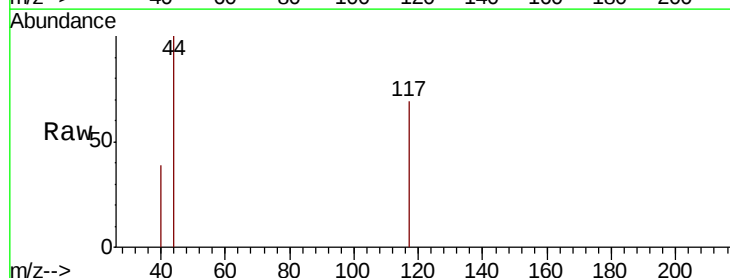
Acq: 09 Oct 2019 17:19

Tgt Ion: 117 Resp: 186

Ion Ratio Lower Upper

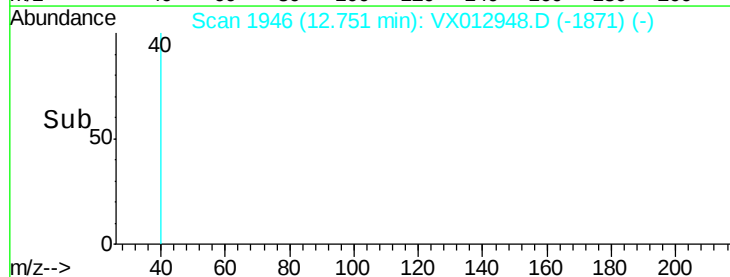
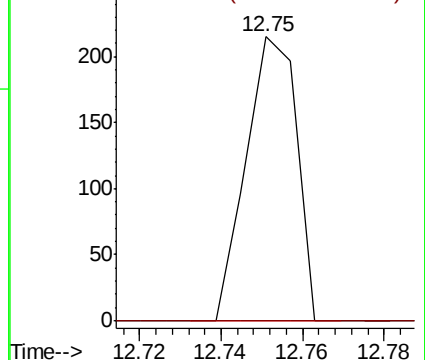
117 100

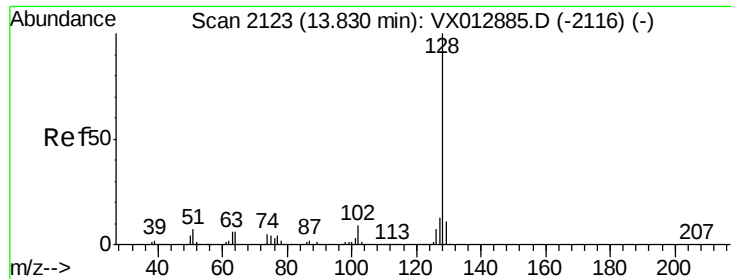
201 0.0 36.9 110.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#95
Naphthalene
Concen: 0.317 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX012948.D
Acq: 09 Oct 2019 17:19

Instrument :
MSVOA_X
ClientSampleId :
TP-COMP

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.2	15.4
129	9.3	8.8	13.2

