

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050219\
 Data File : VX009276.D
 Acq On : 02 May 2019 16:27
 Operator : JC/SP
 Sample : K2659-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z5-TB01-190429

Quant Time: May 03 02:42:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:03:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	193236	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	312112	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	267694	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	110400	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	127867	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
35) Dibromofluoromethane	5.50	113	95130	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
50) Toluene-d8	8.71	98	386424	48.78	ug/l	0.00
Spiked Amount			Recovery	=	97.56%	
62) 4-Bromofluorobenzene	11.13	95	126398	43.91	ug/l	0.00
Spiked Amount			Recovery	=	87.82%	

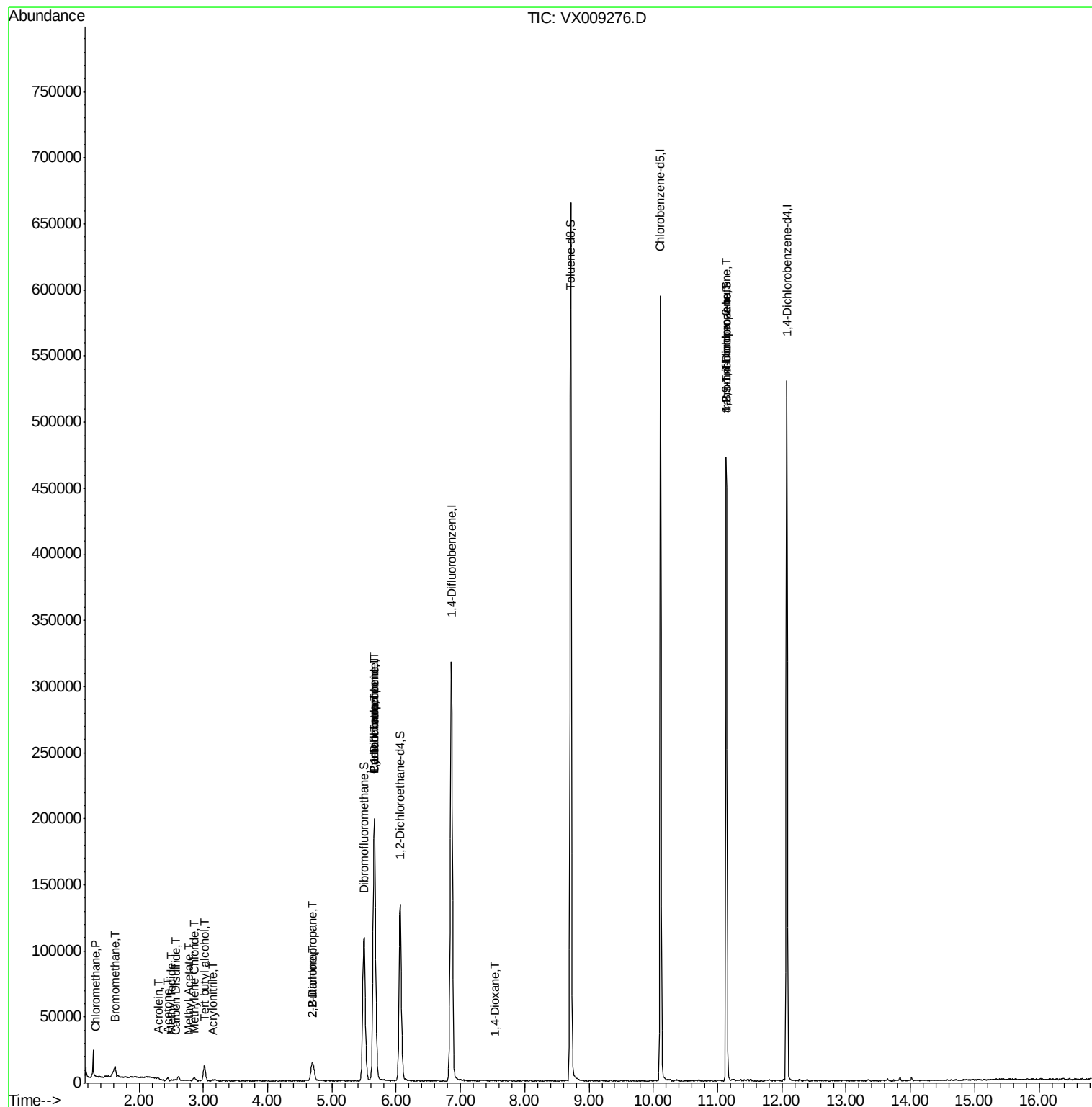
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	505	0.208	ug/l	91
5) Bromomethane	1.64	94	664	0.467	ug/l #	62
10) Methyl Iodide	2.51	142	576	4.843	ug/l #	86
11) Tert butyl alcohol	3.01	59	7193	11.780	ug/l #	81
13) Acrolein	2.29	56	319	0.577	ug/l #	61
15) Acrylonitrile	3.15	53	610	0.409	ug/l	93
16) Acetone	2.45	43	2548	1.799	ug/l #	89
17) Carbon Disulfide	2.57	76	1051	0.206	ug/l #	86
18) Methyl Acetate	2.78	43	820	0.243	ug/l #	75
20) Methylene Chloride	2.85	84	1056	0.460	ug/l	93
25) 2-Butanone	4.71	43	1482	0.673	ug/l #	85
26) 2,2-Dichloropropane	4.69	77	1272	0.408	ug/l #	53
28) Bromochloromethane	5.00	49	121	Below Cal	#	20
31) Cyclohexane	5.66	56	4554	1.168	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15686	5.408	ug/l #	50
38) Carbon Tetrachloride	5.66	117	18564	7.044	ug/l #	15
49) 1,4-Dioxane	7.54	88	20	0.308	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	64081	25.023	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	64081	64.025	ug/l #	10

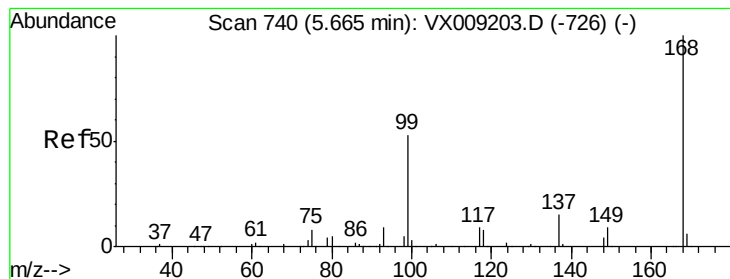
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009276.D

Acq: 02 May 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

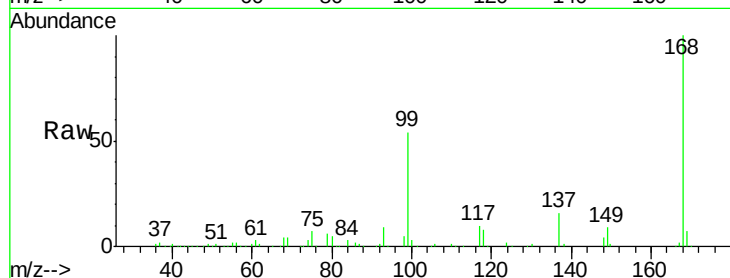
Z5-TB01-190429

Tot Ion:168 Resp: 193236

Ion Ratio Lower Upper

168 100

99 54.1 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

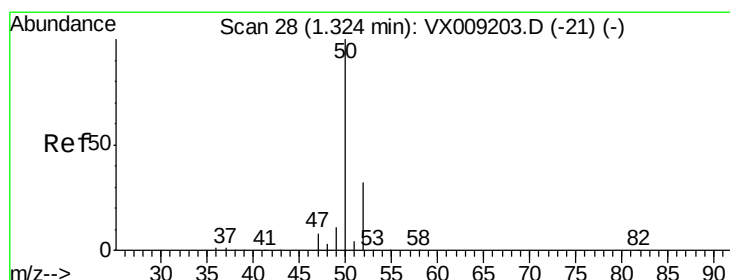
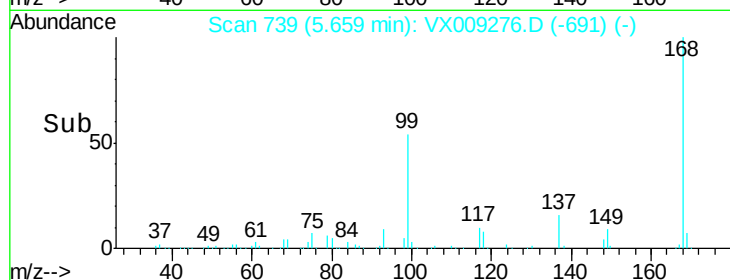
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.208 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009276.D

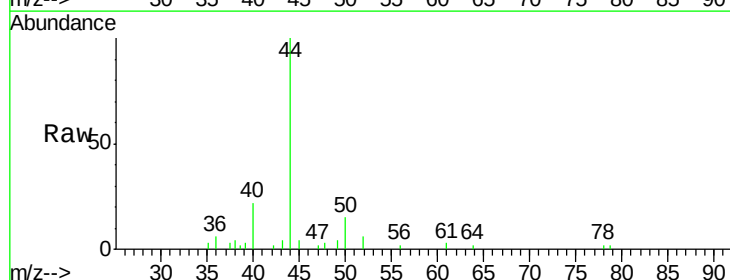
Acq: 02 May 2019 16:27

Tgt Ion: 50 Resp: 505

Ion Ratio Lower Upper

50 100

52 27.6 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

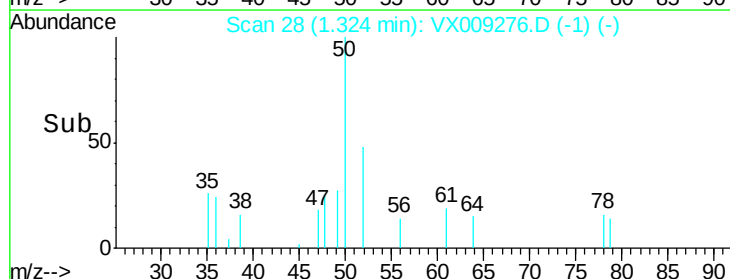
300

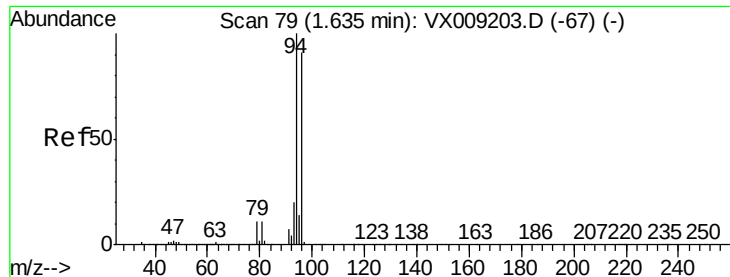
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.467 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.00 min

Lab File: VX009276.D

Acq: 02 May 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

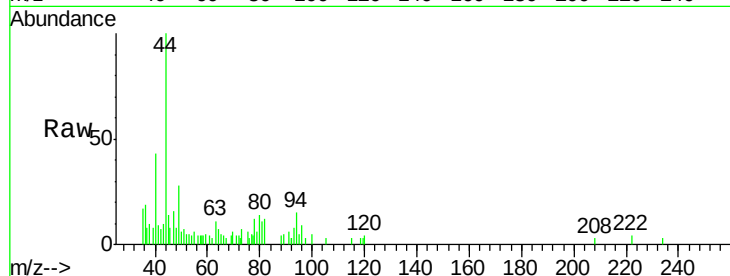
Z5-TB01-190429

Tot Ion: 94 Resp: 664

Ion Ratio Lower Upper

94 100

96 55.3 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

250

200

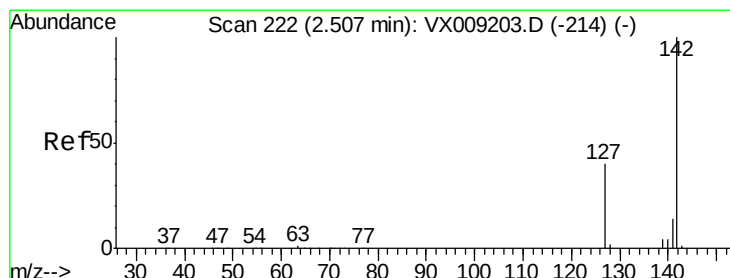
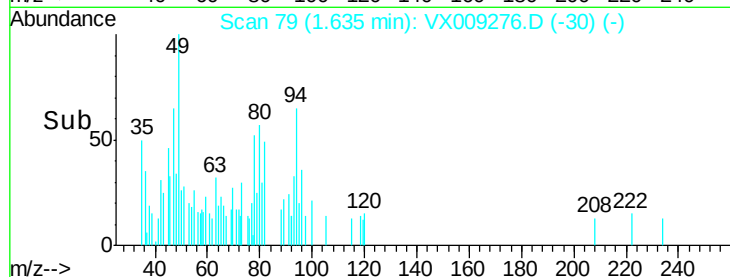
150

100

50

0

Time--> 1.55 1.60 1.65 1.70



#10

Methyl Iodide

Concen: 4.843 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009276.D

Acq: 02 May 2019 16:27

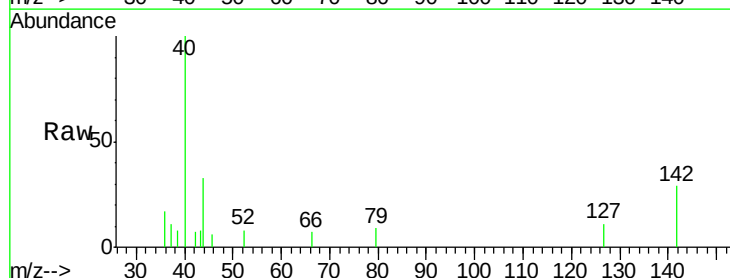
Tgt Ion: 142 Resp: 576

Ion Ratio Lower Upper

142 100

127 37.2 32.7 49.1

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

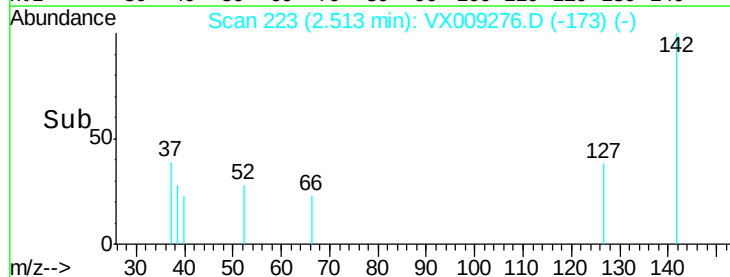
300

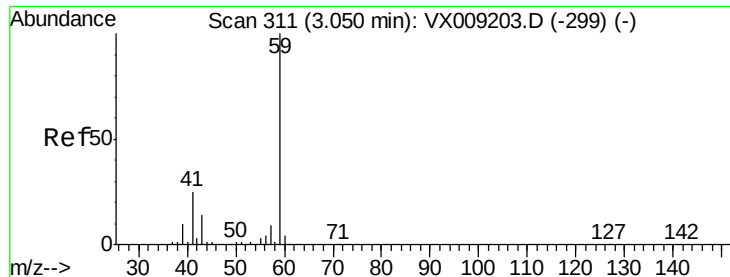
200

100

0

Time--> 2.45 2.50 2.55

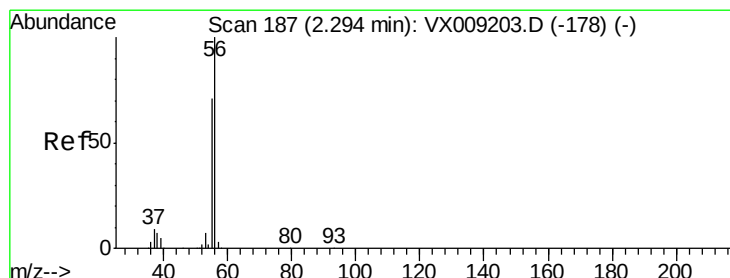
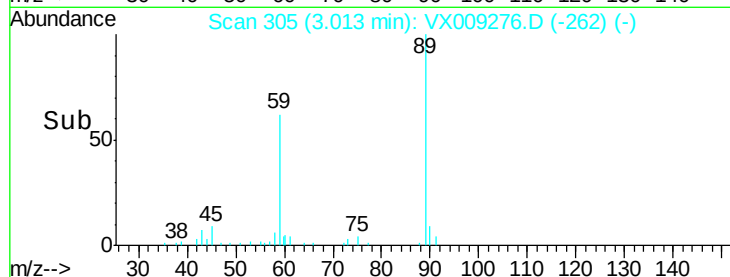
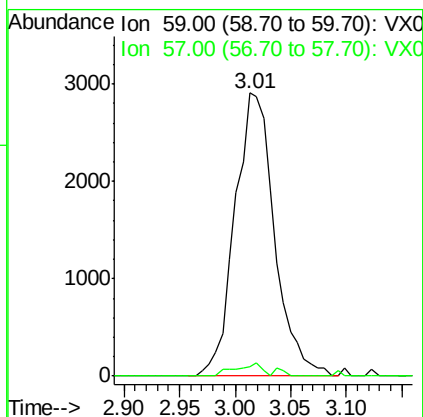
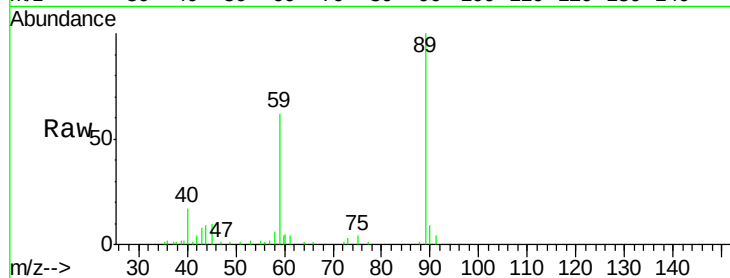




#11
Tert butyl alcohol
Concen: 11.780 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX009276.D
Acq: 02 May 2019 16:27

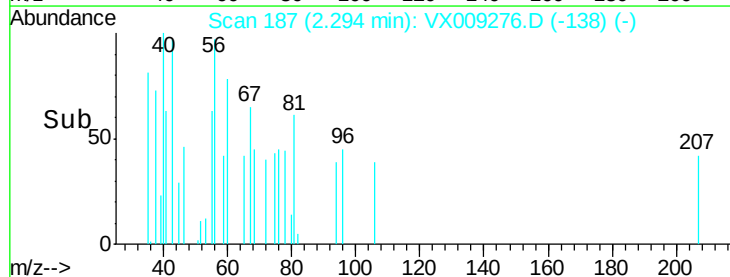
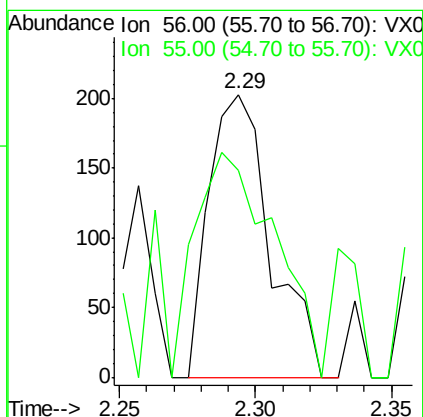
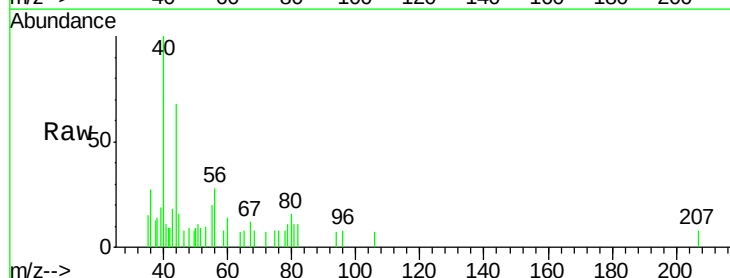
Instrument :
MSVOA_X
ClientSampleId :
Z5-TB01-190429

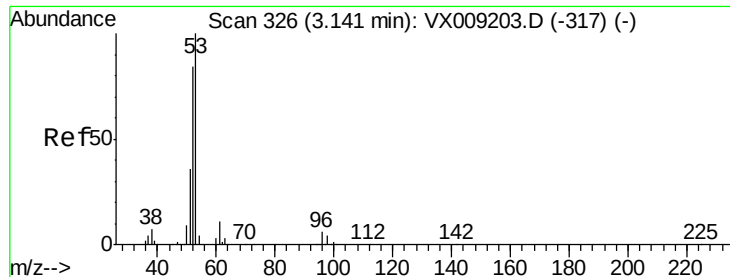
Tot Ion: 59 Resp: 7193
Ion Ratio Lower Upper
59 100
57 3.0 8.2 12.2#



#13
Acrolein
Concen: 0.577 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX009276.D
Acq: 02 May 2019 16:27

Tgt Ion: 56 Resp: 319
Ion Ratio Lower Upper
56 100
55 102.8 56.6 85.0#





#15

Acrylonitrile

Concen: 0.409 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX009276.D

Acq: 02 May 2019 16:27

Instrument :

MSVOA_X

ClientSampled :

Z5-TB01-190429

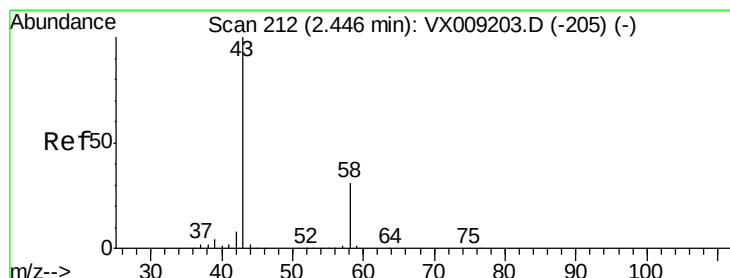
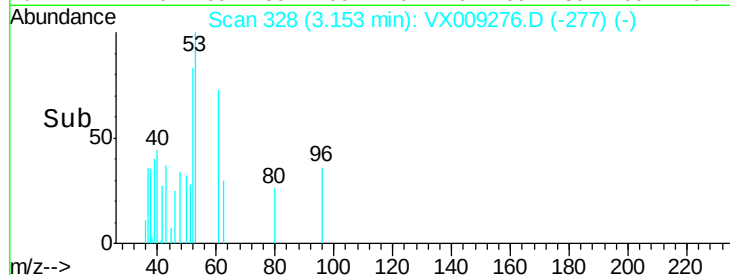
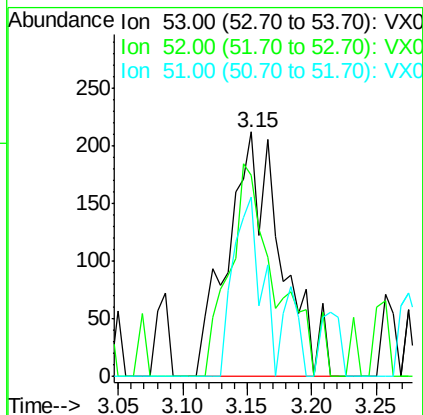
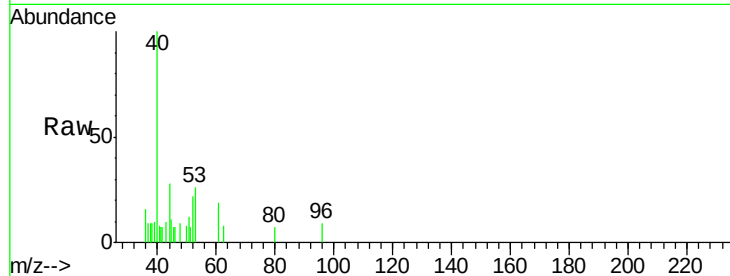
Tot Ion: 53 Resp: 610

Ion Ratio Lower Upper

53 100

52 76.2 66.9 100.3

51 38.5 28.2 42.2



#16

Acetone

Concen: 1.799 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009276.D

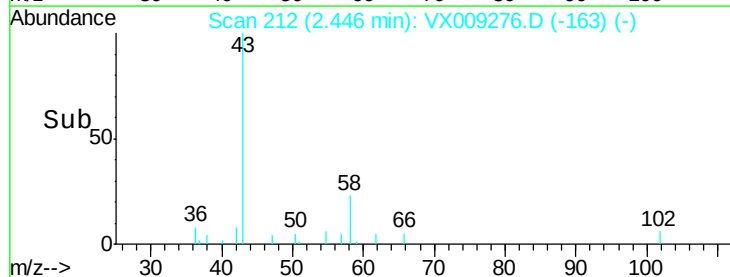
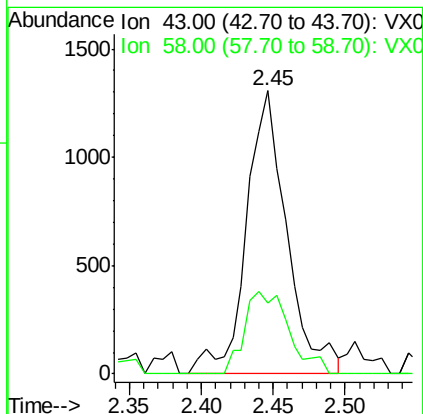
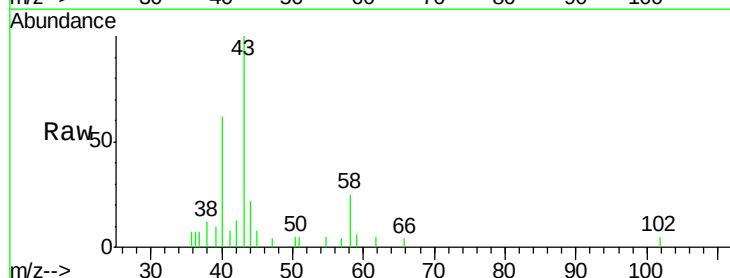
Acq: 02 May 2019 16:27

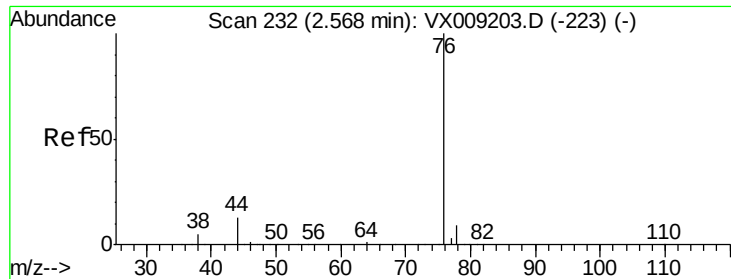
Tgt Ion: 43 Resp: 2548

Ion Ratio Lower Upper

43 100

58 24.9 24.9 37.3#





#17

Carbon Disulfide

Concen: 0.206 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX009276.D

Acq: 02 May 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

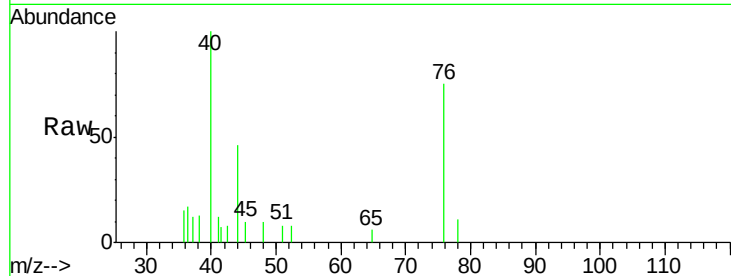
Z5-TB01-190429

Tot Ion: 76 Resp: 1051

Ion Ratio Lower Upper

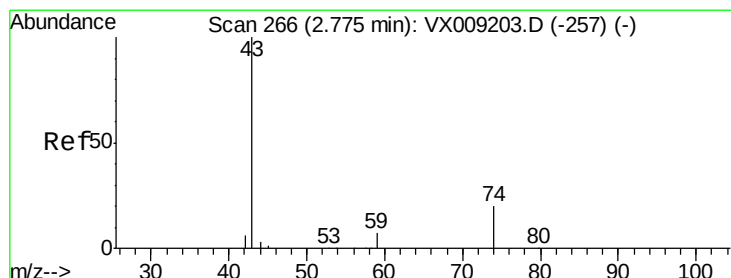
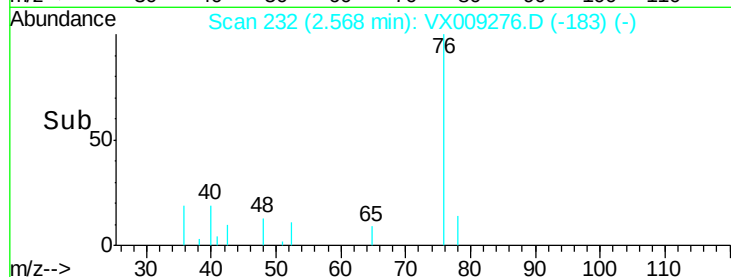
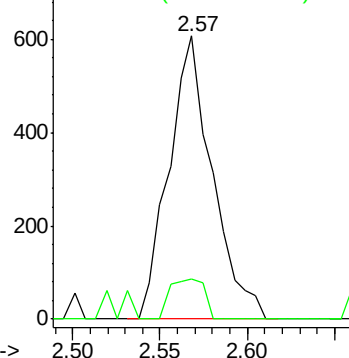
76 100

78 14.2 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.243 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX009276.D

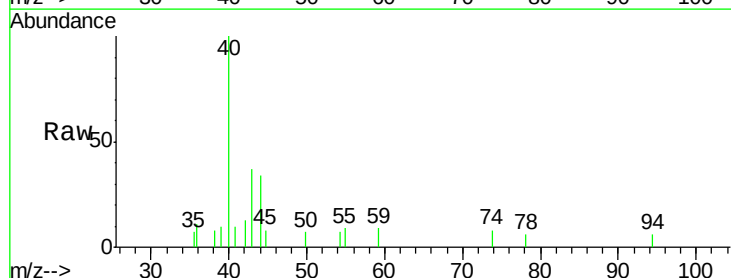
Acq: 02 May 2019 16:27

Tgt Ion: 43 Resp: 820

Ion Ratio Lower Upper

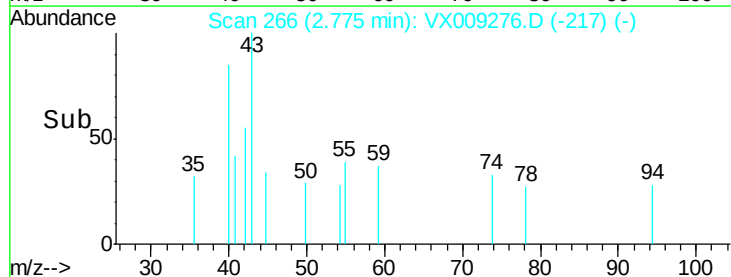
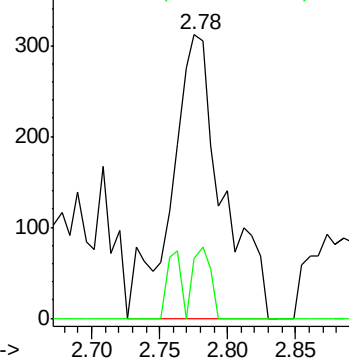
43 100

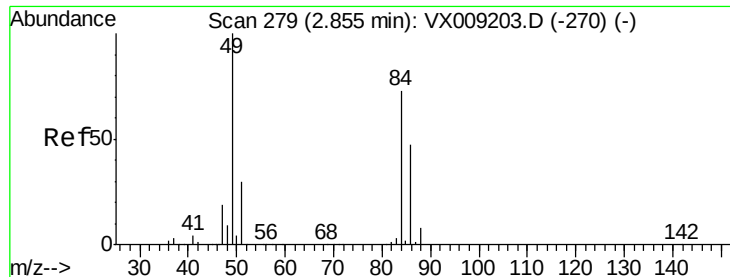
74 8.9 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

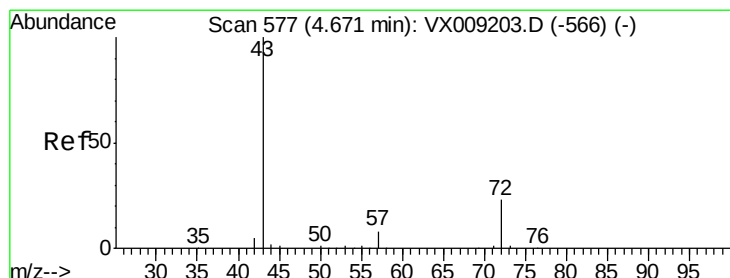
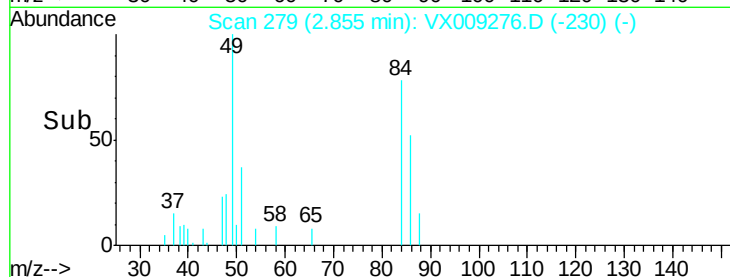
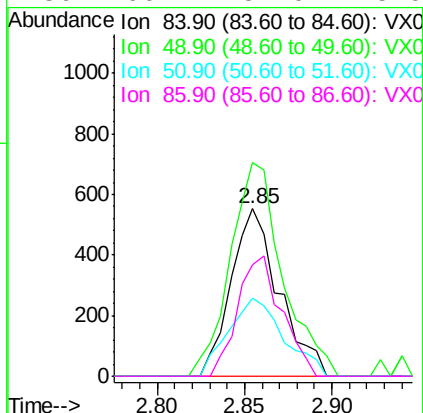
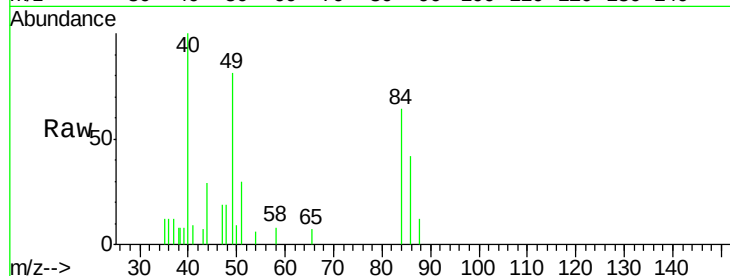




#20
Methvlene Chloride
Concen: 0.460 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX009276.D
Acq: 02 May 2019 16:27

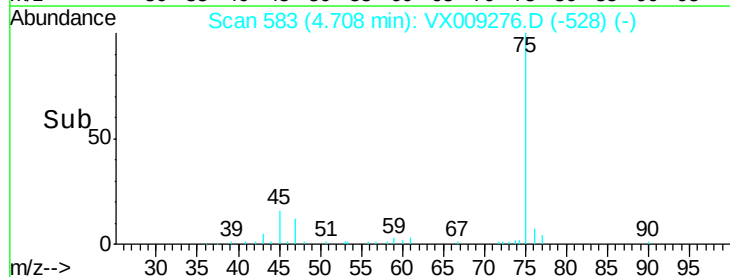
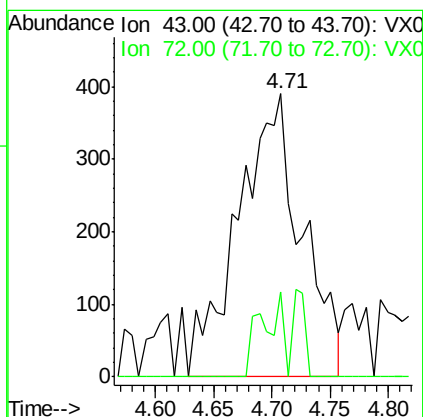
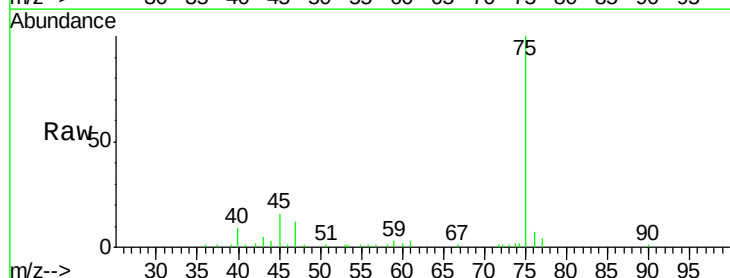
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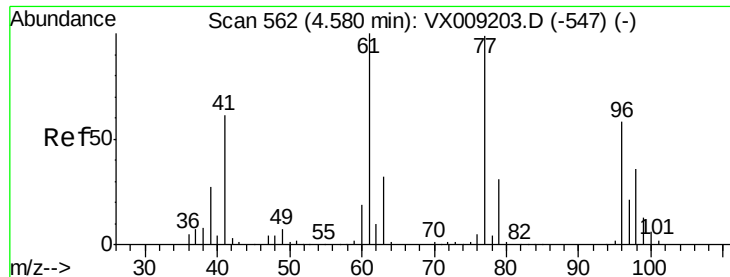
Tot Ion:	84	Resp:	1056
Ion	Ratio	Lower	Upper
84	100		
49	127.5	109.9	164.9
51	46.7	32.7	49.1
86	66.7	52.0	78.0



#25
2-Butanone
Concen: 0.673 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.04 min
Lab File: VX009276.D
Acq: 02 May 2019 16:27

Tgt Ion:	43	Resp:	1482
Ion	Ratio	Lower	Upper
43	100		
72	29.7	18.2	27.2#





#26

2,2-Dichloropropane

Concen: 0.408 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.11 min

Lab File: VX009276.D

Acq: 02 May 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

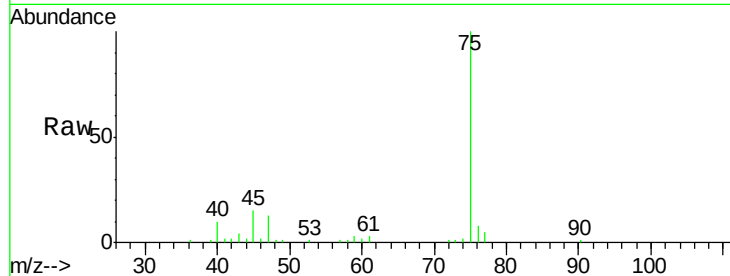
Z5-TB01-190429

Tot Ion: 77 Resp: 1272

Ion Ratio Lower Upper

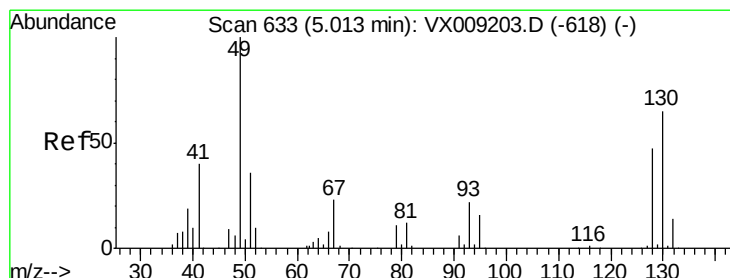
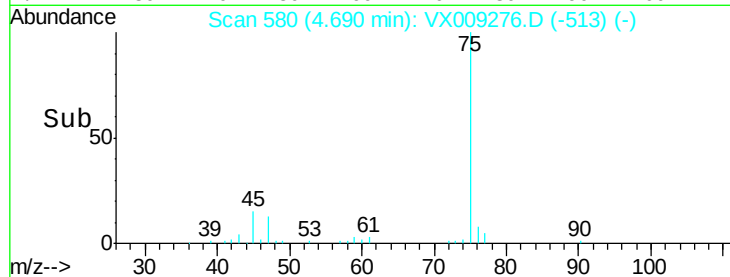
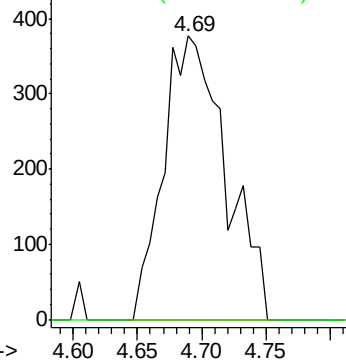
77 100

97 0.0 11.5 34.4#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 631

Delta R.T. -0.01 min

Lab File: VX009276.D

Acq: 02 May 2019 16:27

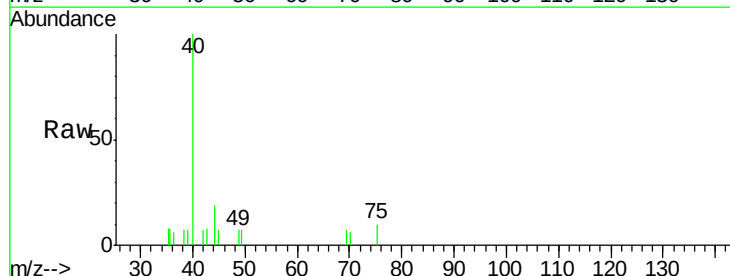
Tgt Ion: 49 Resp: 121

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

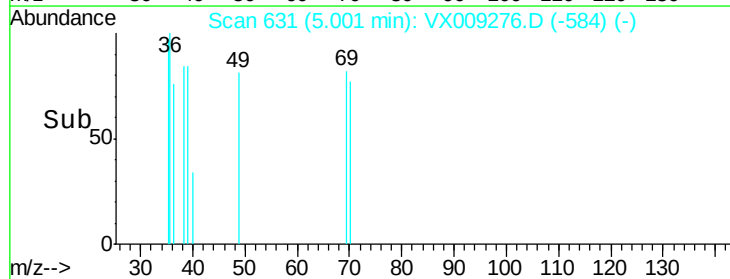
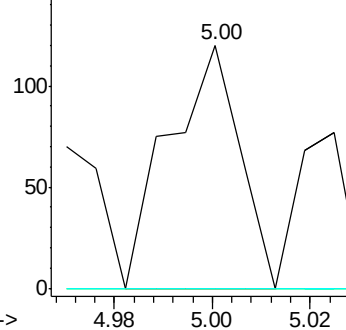
130 0.0 51.2 76.8#

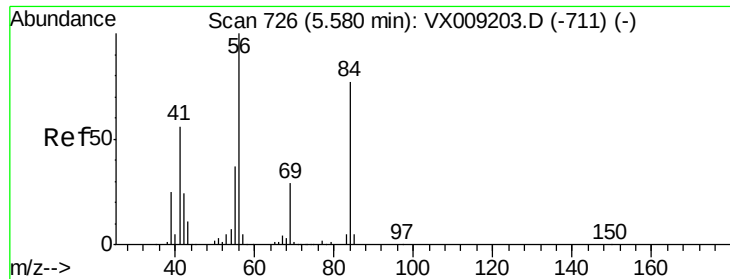


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

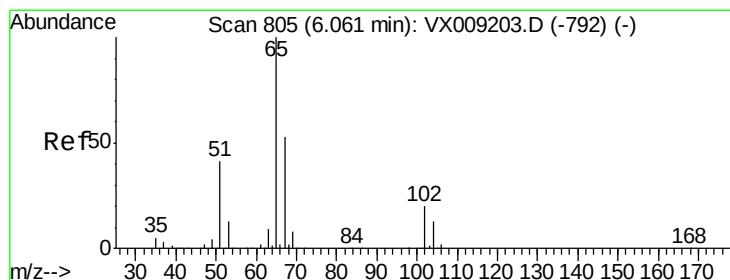
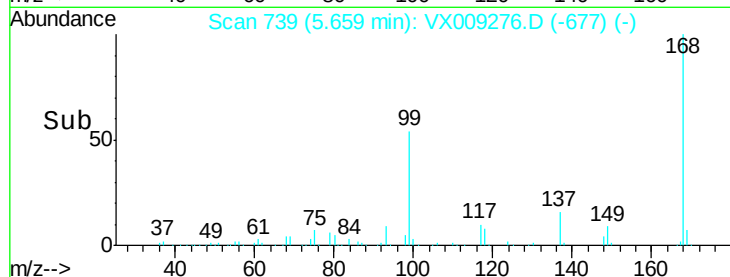
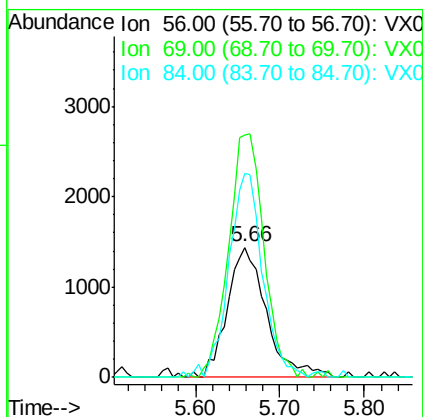
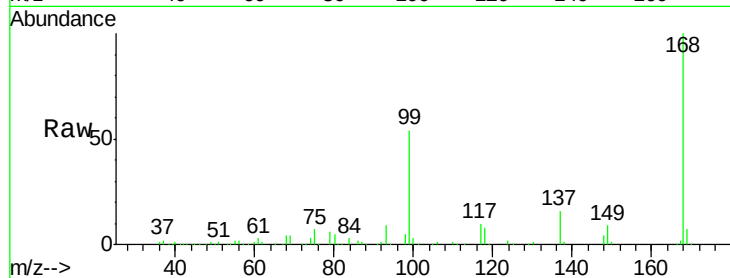




#31
Cyclohexane
Concen: 1.168 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009276.D
Acq: 02 May 2019 16:27

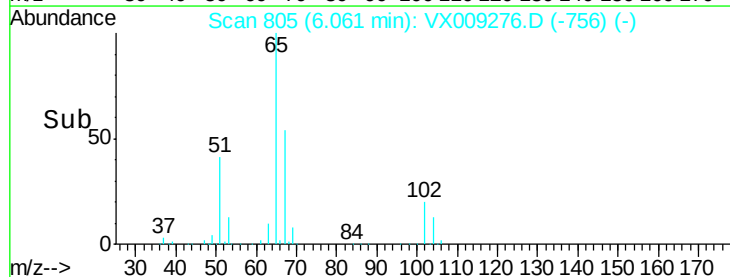
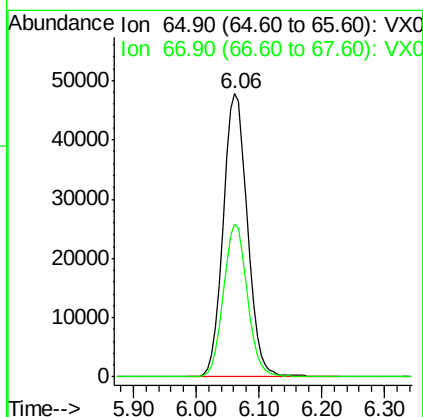
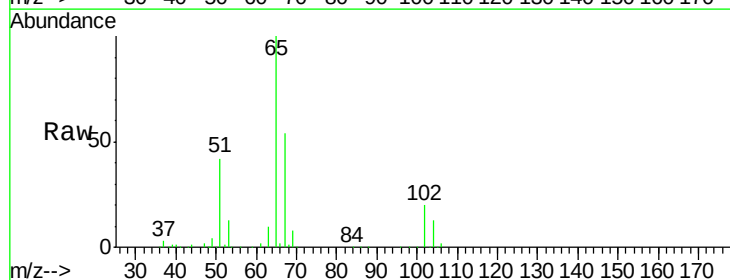
Instrument :
MSVOA_X
ClientSampleId :
Z5-TB01-190429

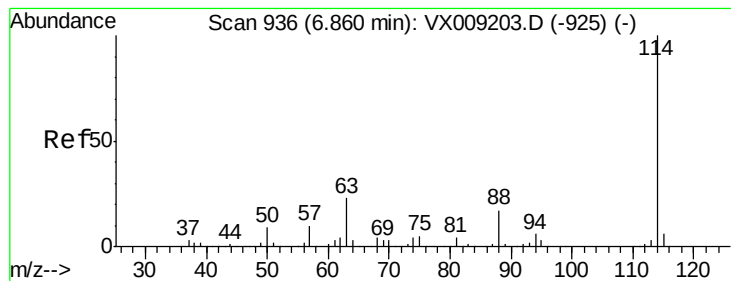
Tot Ion: 56 Resp: 4554
Ion Ratio Lower Upper
56 100
69 186.9 23.4 35.0#
84 156.5 61.9 92.9#



#33
1,2-Dichloroethane-d4
Concen: 48.473 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX009276.D
Acq: 02 May 2019 16:27

Tgt Ion: 65 Resp: 127867
Ion Ratio Lower Upper
65 100
67 53.2 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX009276.D

Acq: 02 May 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

Z5-TB01-190429

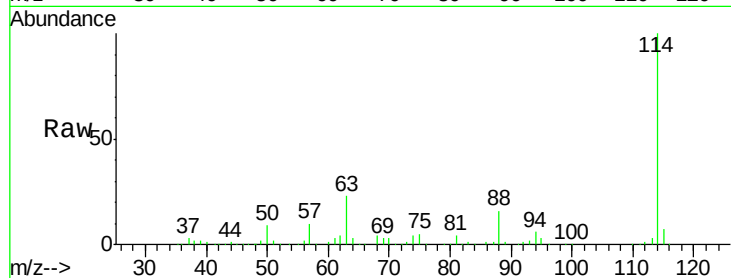
Tot Ion:114 Resp: 312112

Ion Ratio Lower Upper

114 100

63 22.6 0.0 45.6

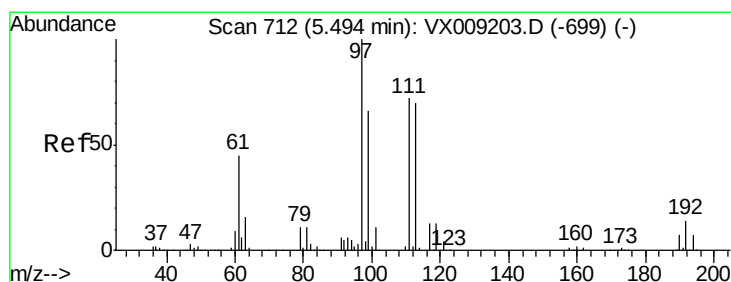
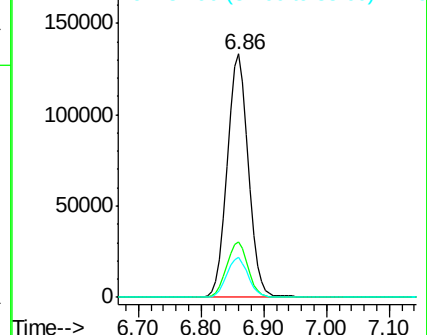
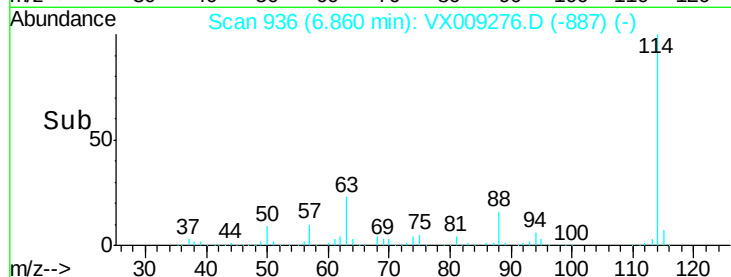
88 16.3 0.0 33.2



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: 48.485 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009276.D

Acq: 02 May 2019 16:27

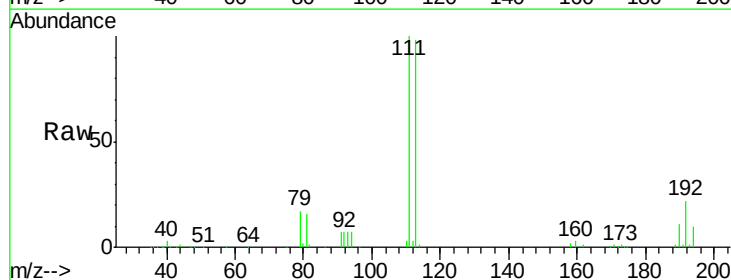
Tgt Ion:113 Resp: 95130

Ion Ratio Lower Upper

113 100

111 101.4 82.8 124.2

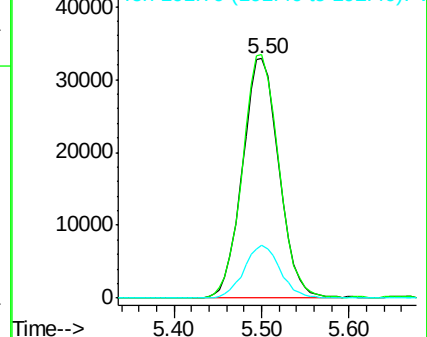
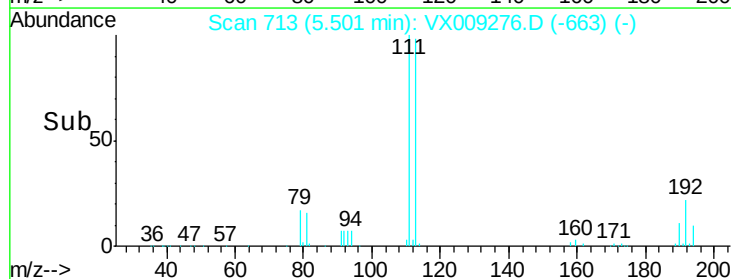
192 21.7 17.0 25.6

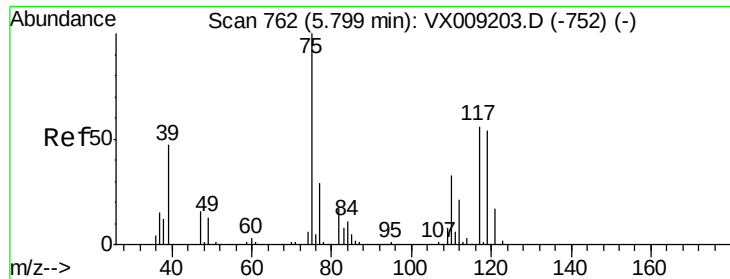


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.408 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009276.D

Acq: 02 May 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

Z5-TB01-190429

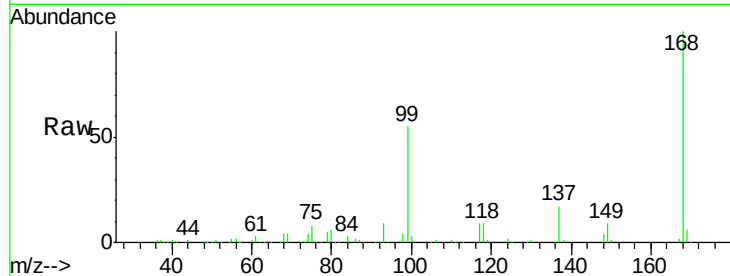
Tot Ion: 75 Resp: 15686

Ion Ratio Lower Upper

75 100

110 8.5 16.9 50.6#

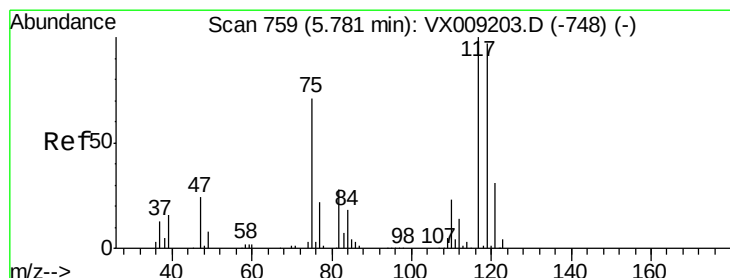
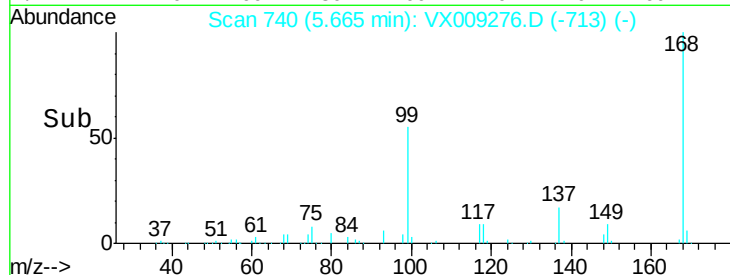
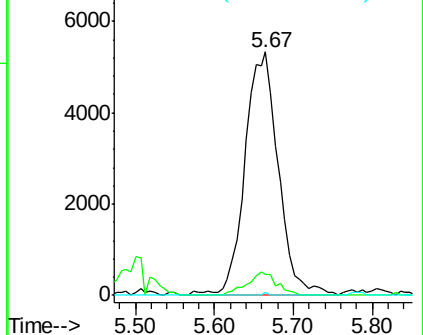
77 0.1 24.8 37.2#



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: 7.044 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009276.D

Acq: 02 May 2019 16:27

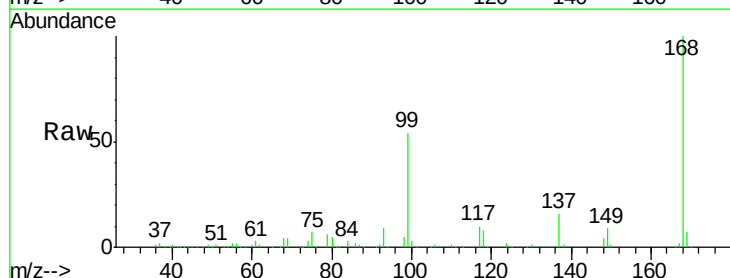
Tgt Ion: 117 Resp: 18564

Ion Ratio Lower Upper

117 100

119 4.0 77.5 116.3#

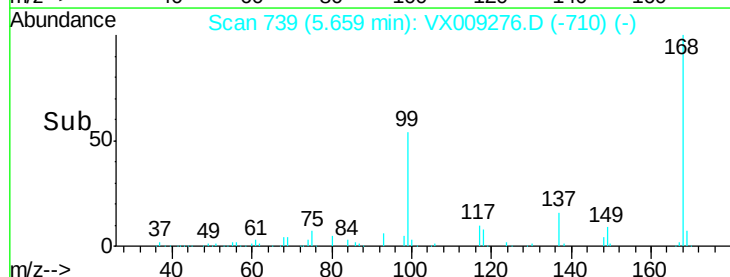
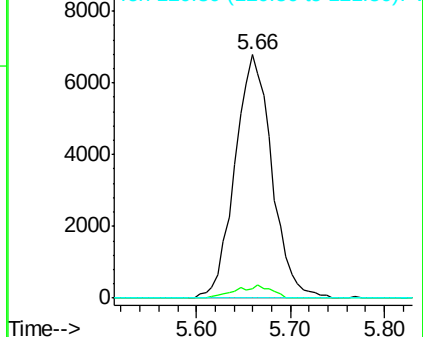
121 0.0 24.7 37.1#

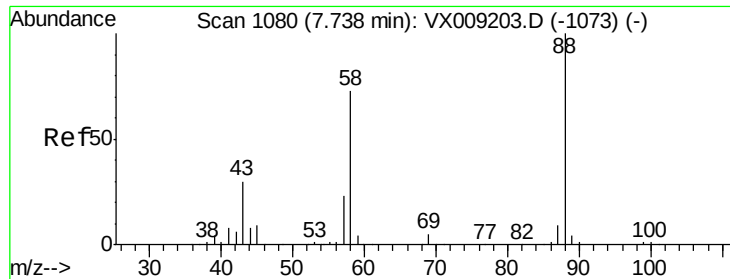


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.308 ug/l

RT: 7.54 min Scan# 1048

Delta R.T. -0.20 min

Lab File: VX009276.D

Acq: 02 May 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

Z5-TB01-190429

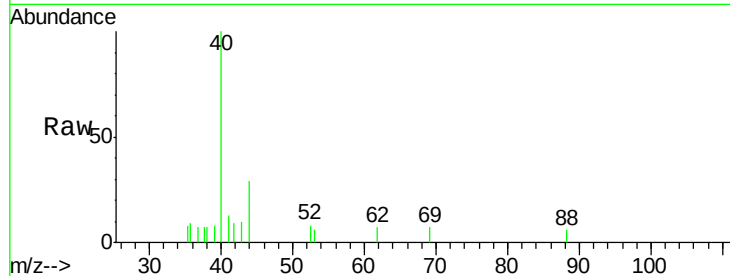
Tot Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 350.0 28.6 42.8#

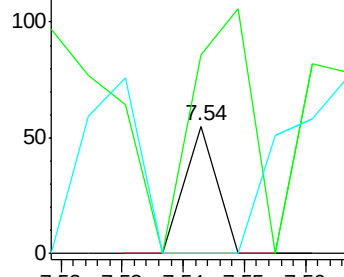
58 245.0 61.7 92.5#



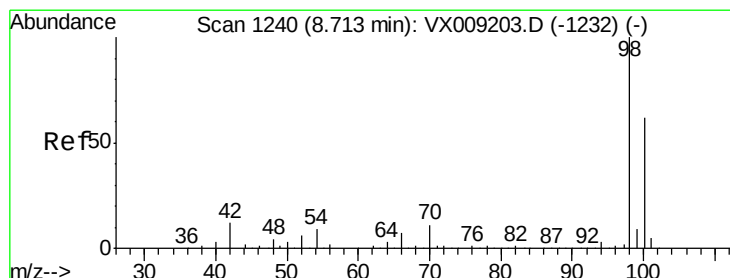
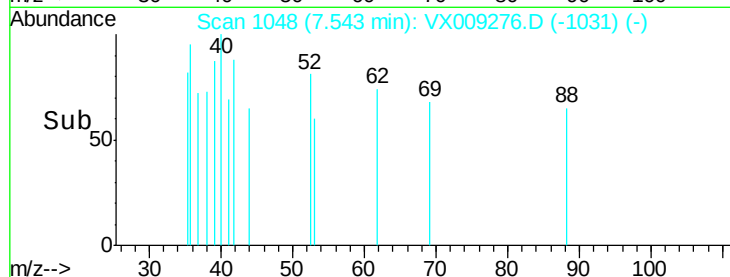
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time--> 7.52 7.53 7.54 7.55 7.56



#50

Toluene-d8

Concen: 48.783 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009276.D

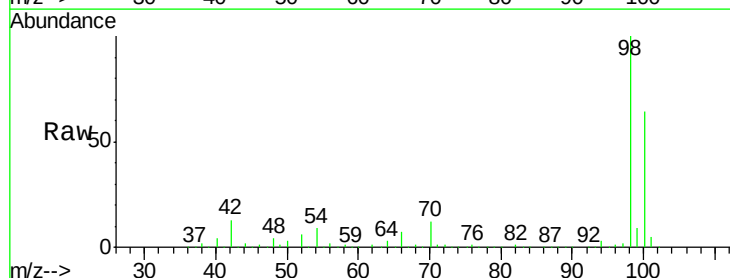
Acq: 02 May 2019 16:27

Tgt Ion: 98 Resp: 386424

Ion Ratio Lower Upper

98 100

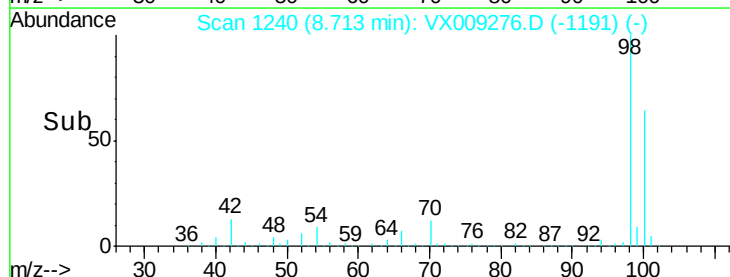
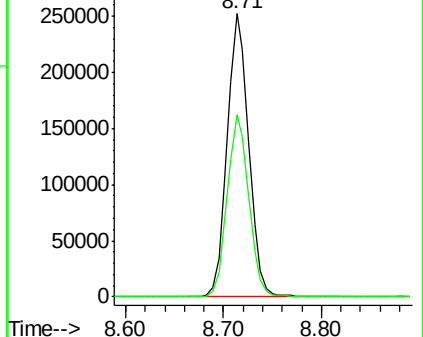
100 64.6 51.2 76.8

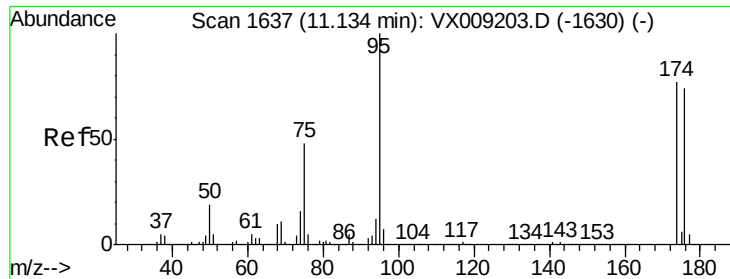


Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71





#62

4-Bromofluorobenzene

Concen: 43.914 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009276.D

Acq: 02 May 2019 16:27

Instrument :

MSVOA_X

ClientSampled :

Z5-TB01-190429

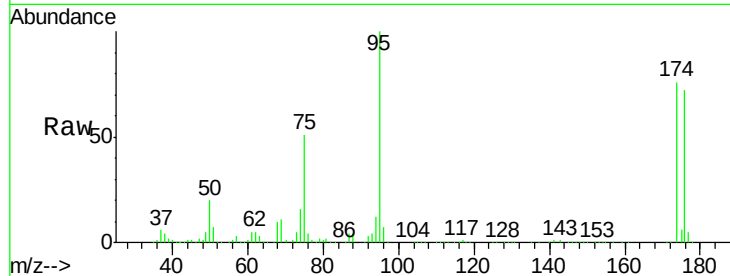
Tot Ion: 95 Resp: 126398

Ion Ratio Lower Upper

95 100

174 81.7 0.0 161.6

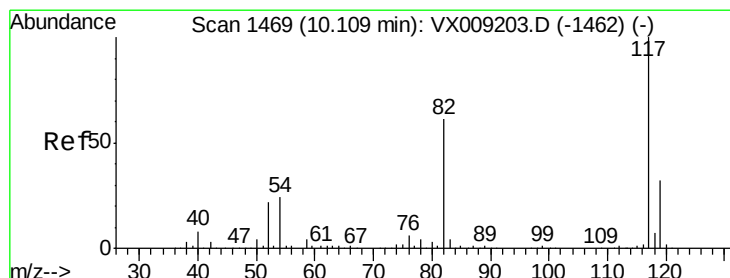
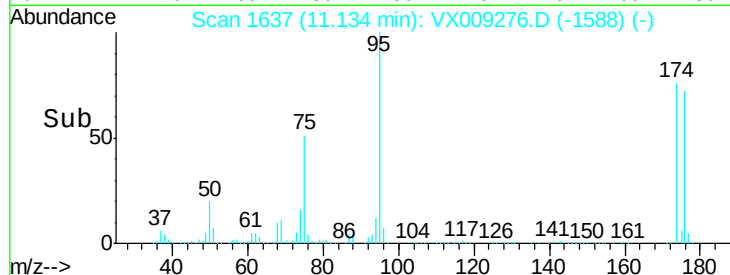
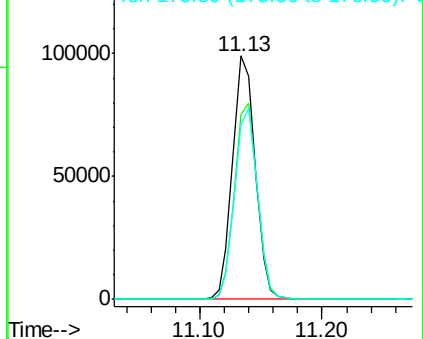
176 78.9 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009276.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009276.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009276.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009276.D

Acq: 02 May 2019 16:27

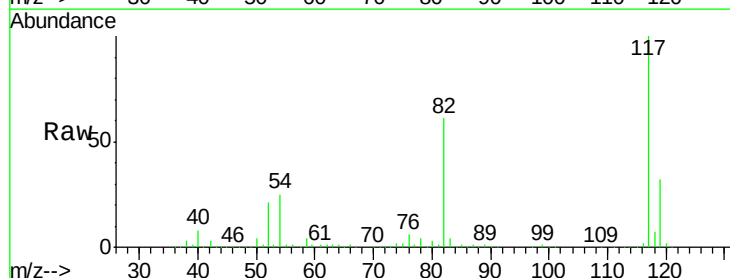
Tgt Ion: 117 Resp: 267694

Ion Ratio Lower Upper

117 100

82 61.4 48.8 73.2

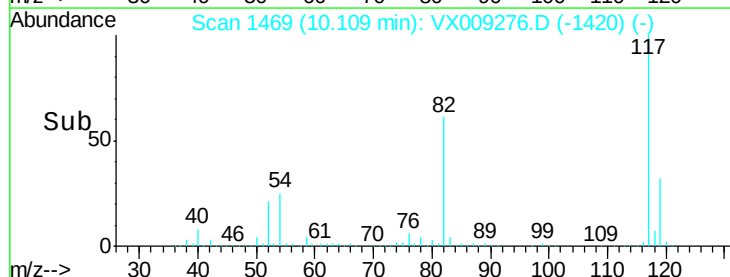
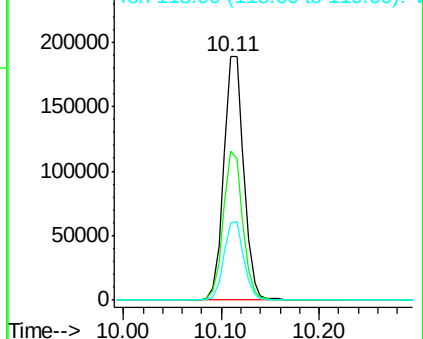
119 31.8 25.8 38.6

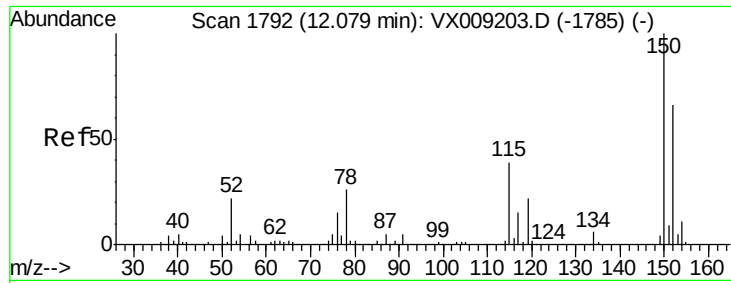


Abundance Ion 116.90 (116.60 to 117.60): VX009276.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009276.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009276.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009276.D

Acq: 02 May 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

Z5-TB01-190429

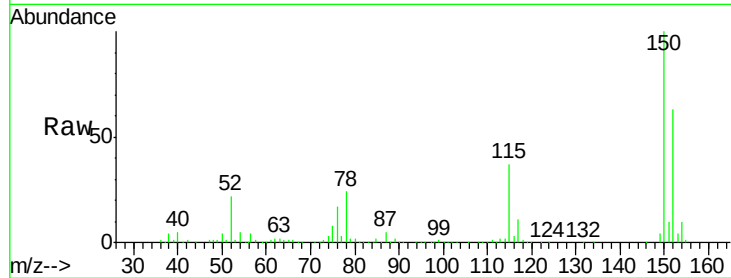
Tot Ion:152 Resp: 110400

Ion Ratio Lower Upper

152 100

115 59.6 41.2 123.6

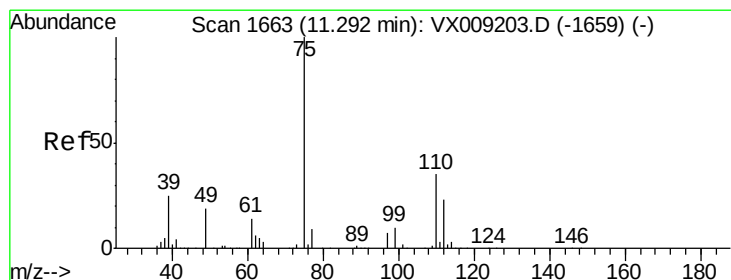
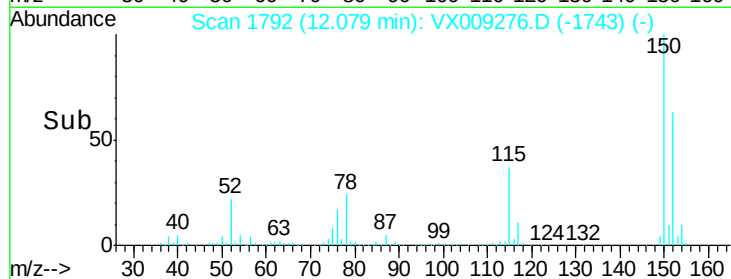
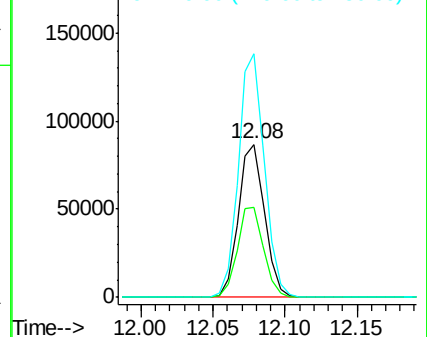
150 158.4 0.0 346.4



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: 25.023 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009276.D

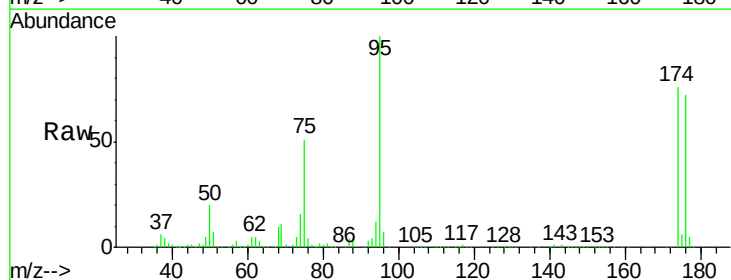
Acq: 02 May 2019 16:27

Tgt Ion: 75 Resp: 64081

Ion Ratio Lower Upper

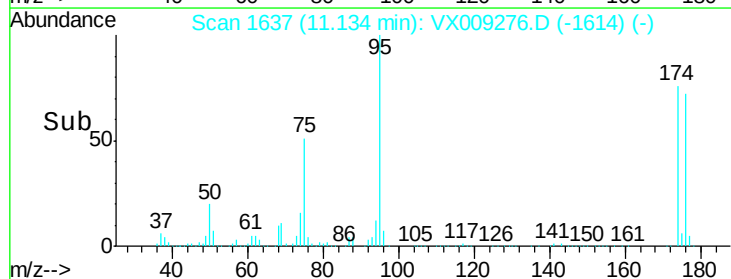
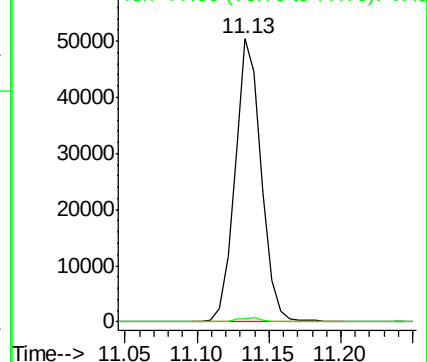
75 100

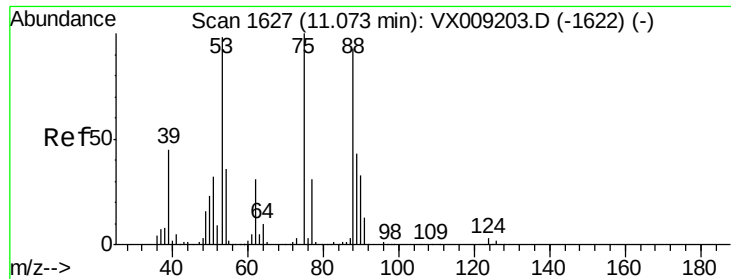
77 1.5 22.1 66.1#



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: 64.025 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009276.D

Acq: 02 May 2019 16:27

Instrument :

MSVOA_X

ClientSampleId :

Z5-TB01-190429

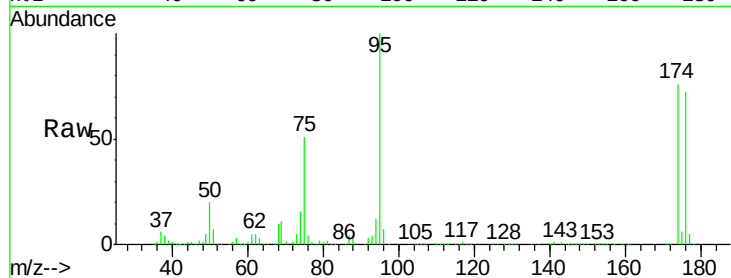
Tot Ion: 75 Resp: 64081

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#



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

