

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080519\
 Data File : VX011328.D
 Acq On : 05 Aug 2019 16:03
 Operator : JC/SP
 Sample : K4129-21
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 06 02:38:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	188996	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	273464	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	247393	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	109473	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	91559	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	
35) Dibromofluoromethane	5.49	113	82272	46.08	ug/l	0.00
Spiked Amount			Recovery	=	92.16%	
50) Toluene-d8	8.71	98	324493	48.15	ug/l	0.00
Spiked Amount			Recovery	=	96.30%	
62) 4-Bromofluorobenzene	11.13	95	101762	42.29	ug/l	0.00
Spiked Amount			Recovery	=	84.58%	

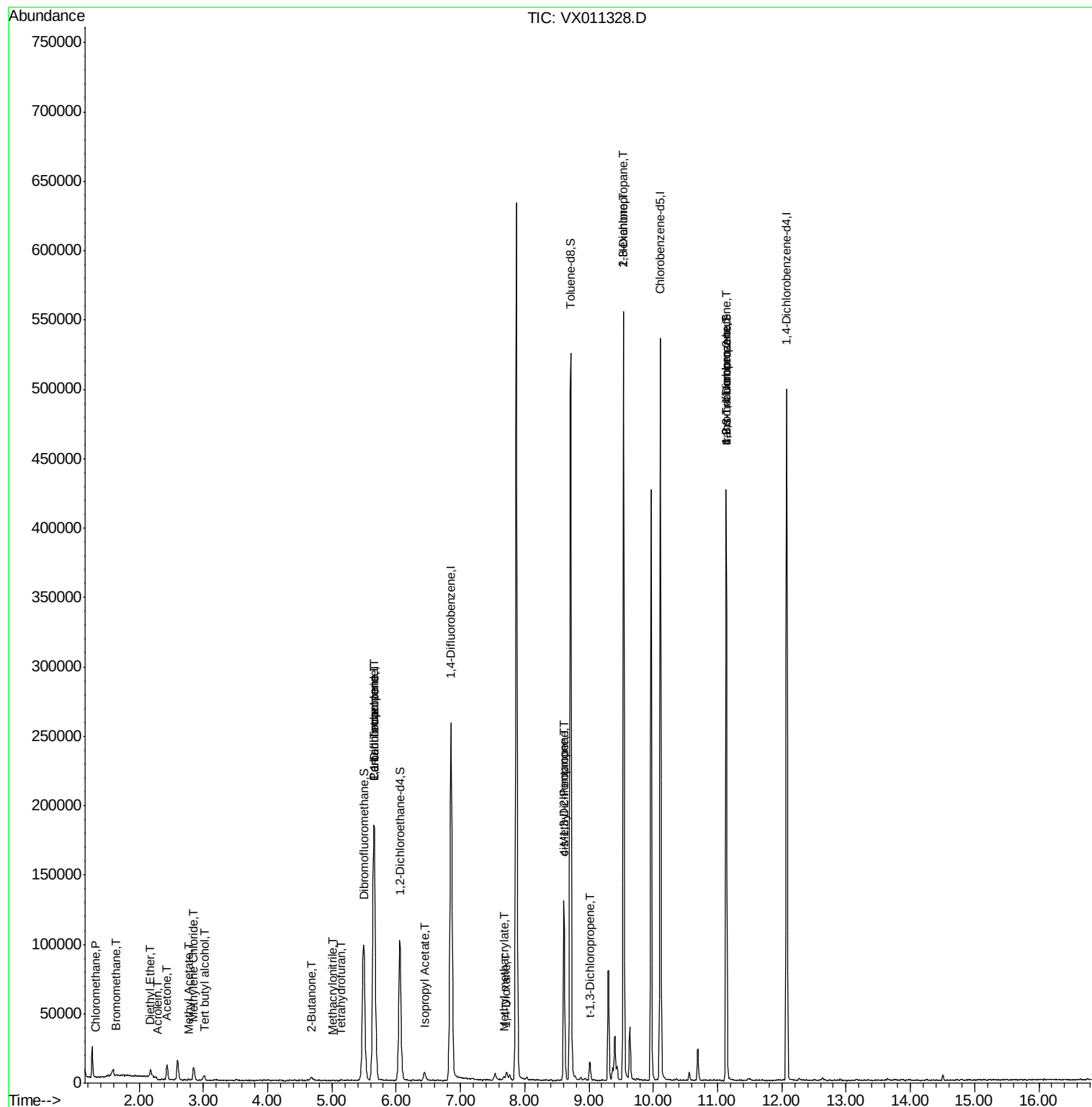
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	333	0.203	ug/l	92
5) Bromomethane	1.64	94	525	0.408	ug/l #	55
6) Chloroethane	1.73	64	188	Below Cal	#	36
8) Diethyl Ether	2.18	74	1987	1.736	ug/l	92
11) Tert butyl alcohol	3.02	59	2169	5.737	ug/l #	75
13) Acrolein	2.29	56	149	0.210	ug/l #	67
16) Acetone	2.43	43	10510	11.601	ug/l	98
18) Methyl Acetate	2.78	43	889	0.429	ug/l #	49
20) Methylene Chloride	2.85	84	4667	2.352	ug/l	89
25) 2-Butanone	4.68	43	1194	0.927	ug/l	90
29) Tetrahydrofuran	5.13	42	365	0.462	ug/l #	71
36) 1,1-Dichloropropene	5.65	75	12239	5.126	ug/l #	50
38) Carbon Tetrachloride	5.65	117	17273	7.191	ug/l #	16
41) Methacrylonitrile	5.02	41	296	0.226	ug/l #	16
43) Isopropyl Acetate	6.45	43	8288	2.165	ug/l	96
48) Methyl methacrylate	7.68	41	3594	1.994	ug/l #	11
49) 1,4-Dioxane	7.71	88	23	0.440	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	41120	16.641	ug/l #	48
53) t-1,3-Dichloropropene	9.01	75	117	2.880	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	21238	7.972	ug/l #	64
57) 1,3-Dichloropropane	9.54	76	4785	1.562	ug/l #	45
59) 2-Hexanone	9.54	43	61449	32.105	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	50610	25.386	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	50610	66.176	ug/l #	10

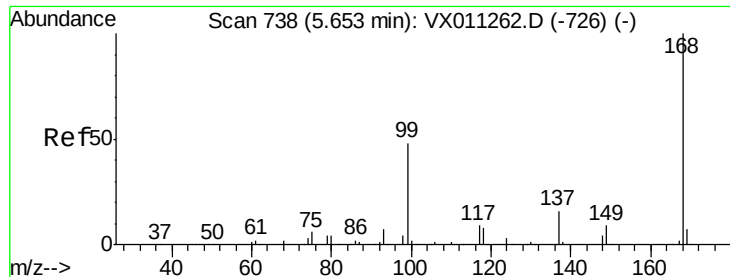
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011328.D

Acq: 05 Aug 2019 16:03

Instrument :

MSVOA_X

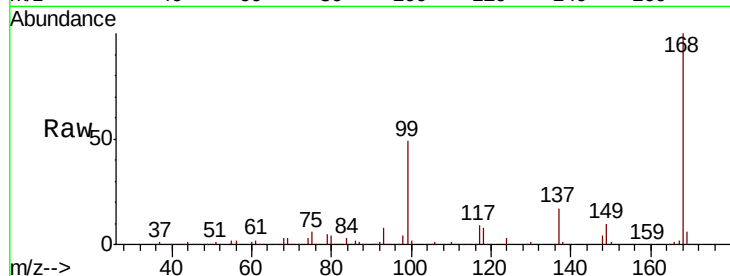
ClientSampleId :

Tot Ion:168 Resp: 188996

Ion Ratio Lower Upper

168 100

99 48.7 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

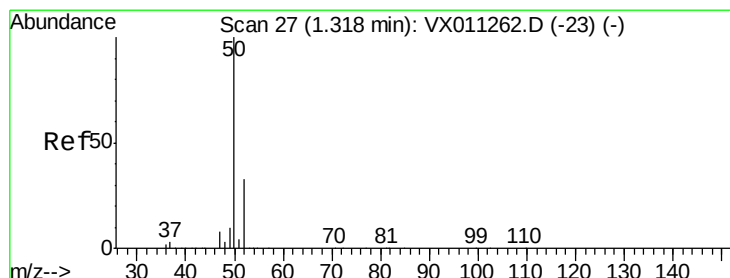
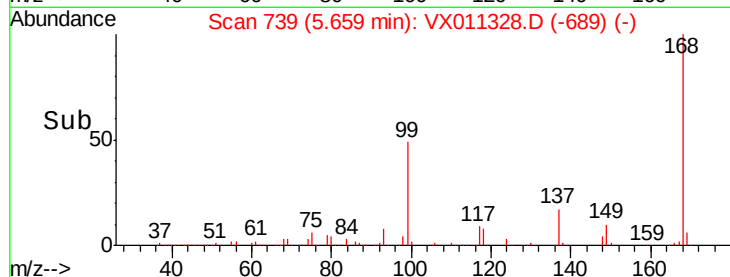
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.203 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX011328.D

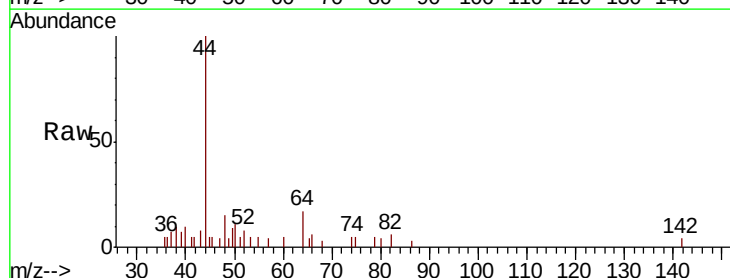
Acq: 05 Aug 2019 16:03

Tgt Ion: 50 Resp: 333

Ion Ratio Lower Upper

50 100

52 37.4 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

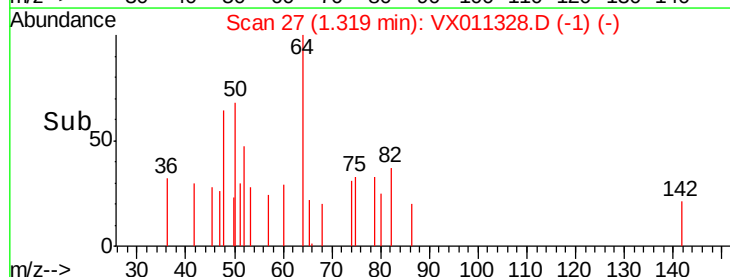
300

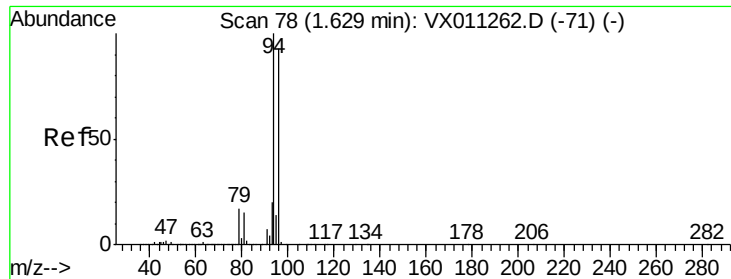
200

100

0

Time--> 1.28 1.30 1.32 1.34





#5

Bromomethane

Concen: 0.408 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX011328.D

Acq: 05 Aug 2019 16:03

Instrument :

MSVOA_X

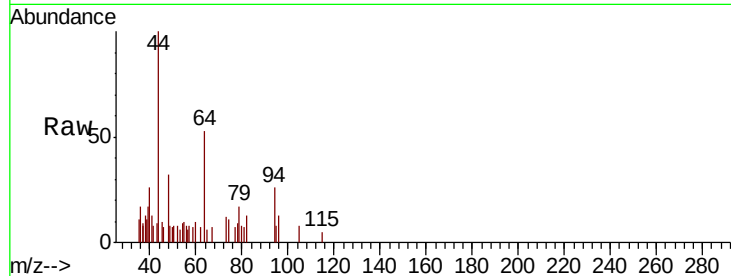
ClientSampled :

Tot Ion: 94 Resp: 525

Ion Ratio Lower Upper

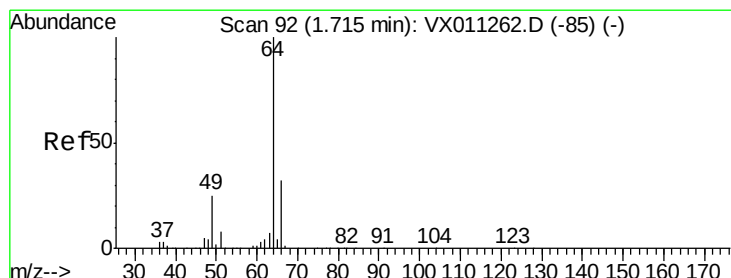
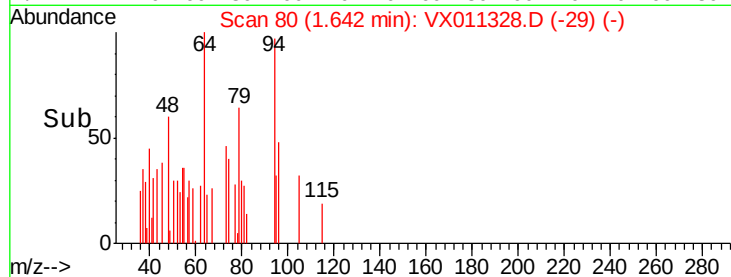
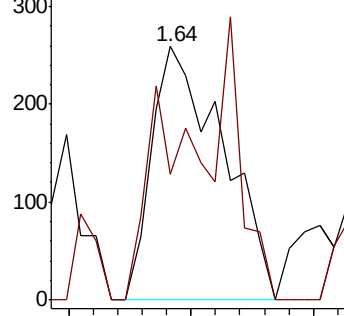
94 100

96 49.8 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX011328.D

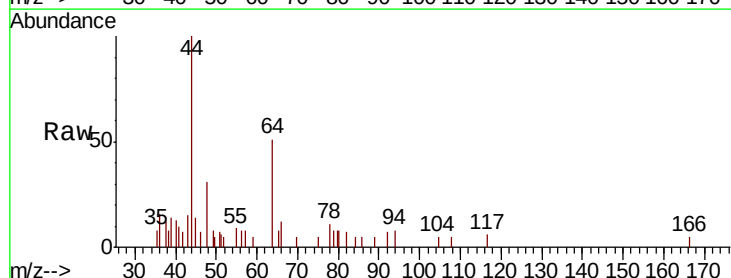
Acq: 05 Aug 2019 16:03

Tgt Ion: 64 Resp: 188

Ion Ratio Lower Upper

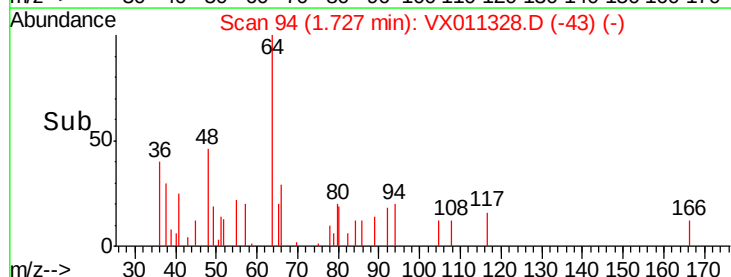
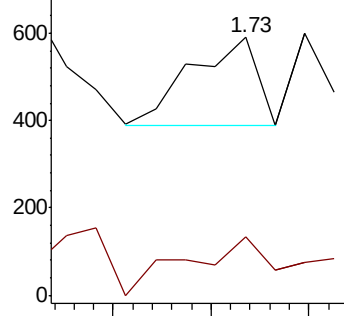
64 100

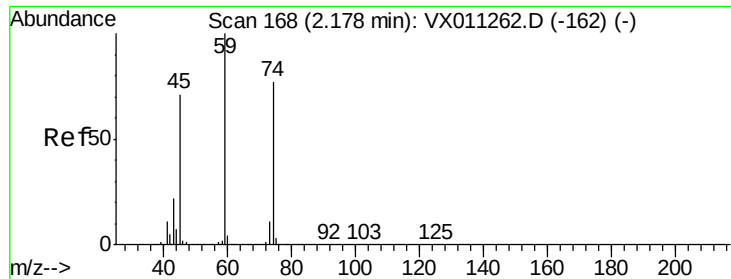
66 66.7 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 1.736 ug/l

RT: 2.18 min Scan# 168

Delta R.T. 0.00 min

Lab File: VX011328.D

Acq: 05 Aug 2019 16:03

Instrument :

MSVOA_X

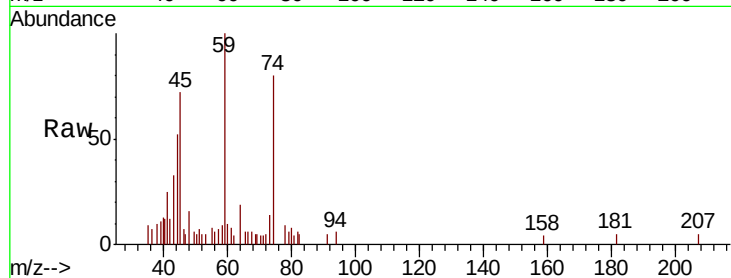
ClientSampleId :

Tot Ion: 74 Resp: 1987

Ion Ratio Lower Upper

74 100

45 84.5 46.1 138.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.18

1000

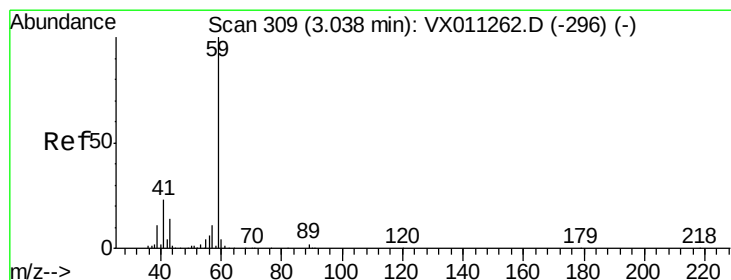
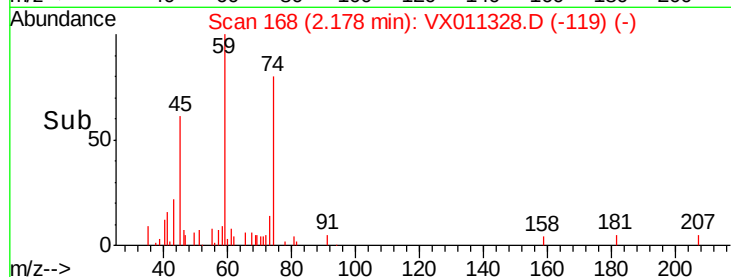
500

0

Time-->

2.15

2.20



#11

Tert butyl alcohol

Concen: 5.737 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.02 min

Lab File: VX011328.D

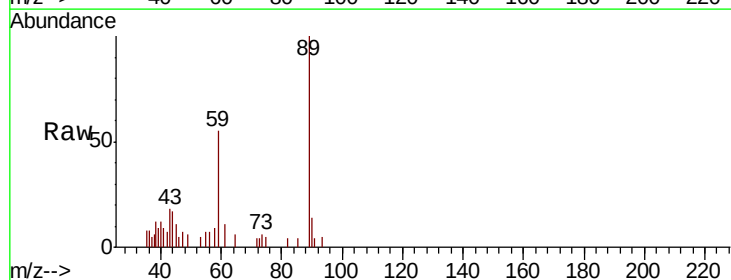
Acq: 05 Aug 2019 16:03

Tgt Ion: 59 Resp: 2169

Ion Ratio Lower Upper

59 100

57 0.9 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.02

800

600

400

200

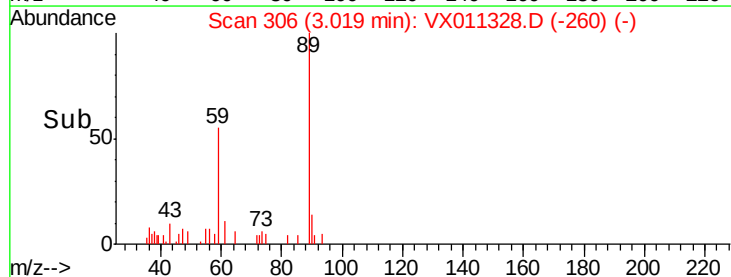
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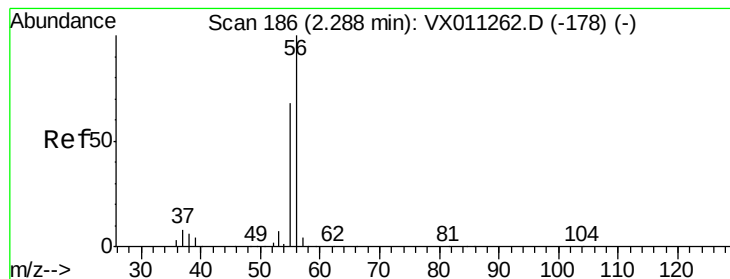
Time-->

2.95

3.00

3.05





#13

Acrolein

Concen: 0.210 ug/l

RT: 2.29 min Scan# 186

Delta R.T. 0.00 min

Lab File: VX011328.D

Acq: 05 Aug 2019 16:03

Instrument :

MSVOA_X

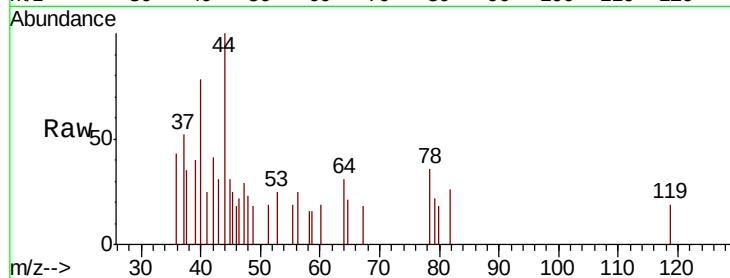
ClientSampled :

Tot Ion: 56 Resp: 149

Ion Ratio Lower Upper

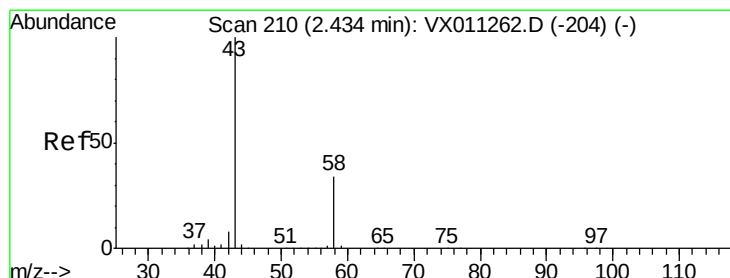
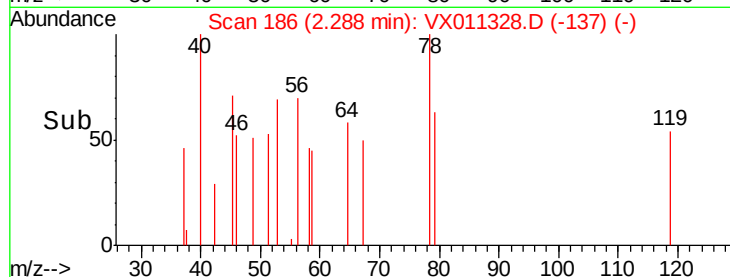
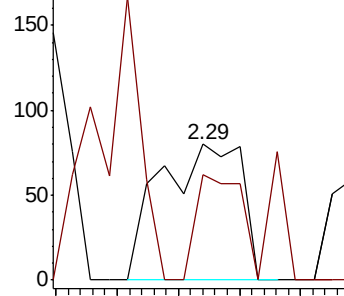
56 100

55 43.0 56.0 84.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 11.601 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011328.D

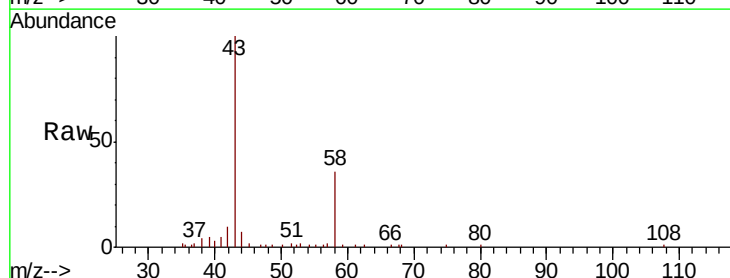
Acq: 05 Aug 2019 16:03

Tgt Ion: 43 Resp: 10510

Ion Ratio Lower Upper

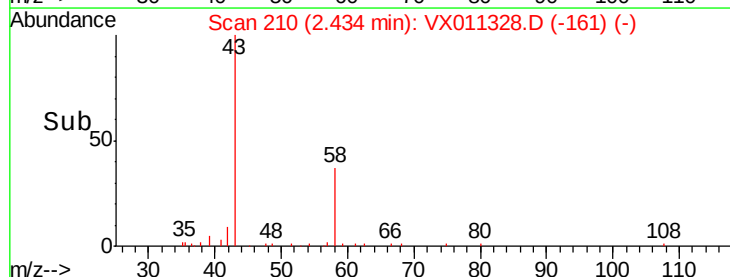
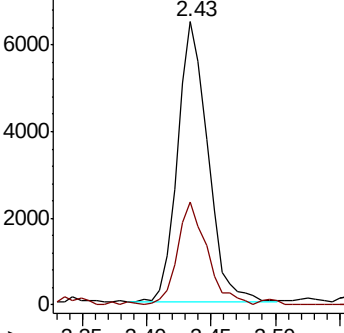
43 100

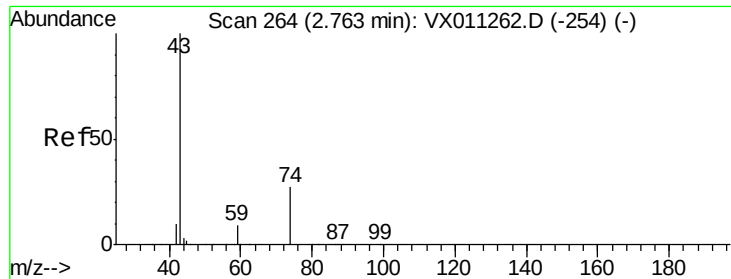
58 35.5 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

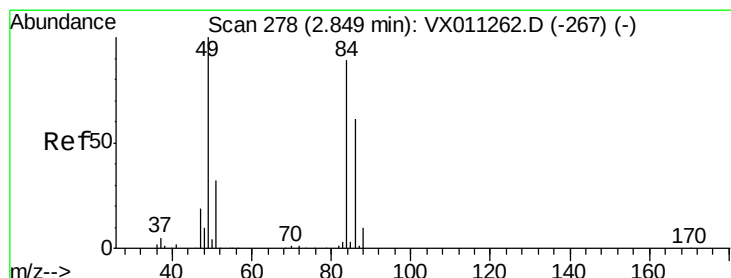
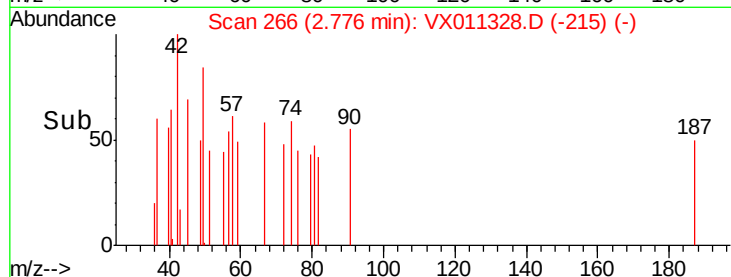
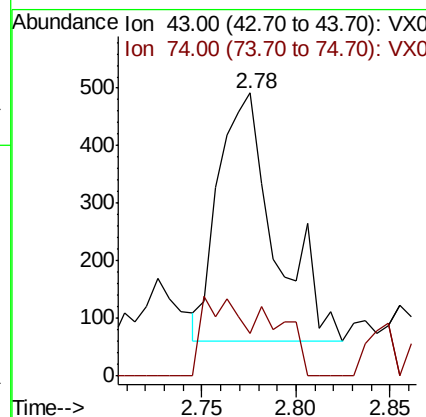
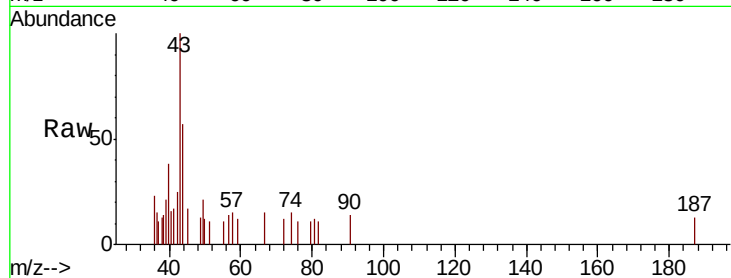




#18
Methvl Acetate
Concen: 0.429 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX011328.D
Acq: 05 Aug 2019 16:03

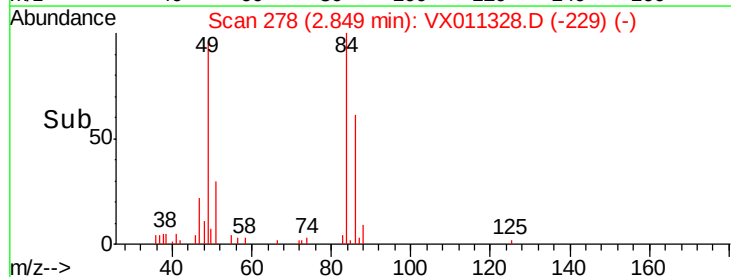
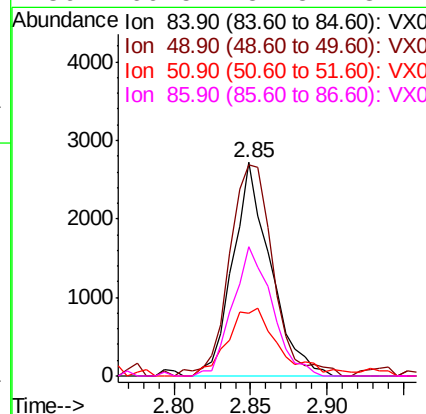
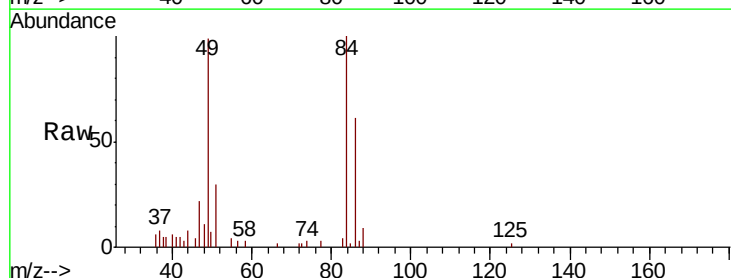
Instrument :
MSVOA_X
ClientSampleId :

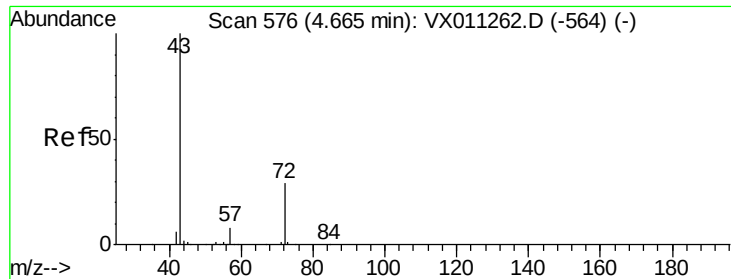
Tot Ion: 43 Resp: 889
Ion Ratio Lower Upper
43 100
74 0.0 21.0 31.6#



#20
Methylene Chloride
Concen: 2.352 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011328.D
Acq: 05 Aug 2019 16:03

Tgt Ion: 84 Resp: 4667
Ion Ratio Lower Upper
84 100
49 98.7 89.3 133.9
51 29.6 28.3 42.5
86 60.5 54.5 81.7





#25

2-Butanone

Concen: 0.927 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011328.D

Acq: 05 Aug 2019 16:03

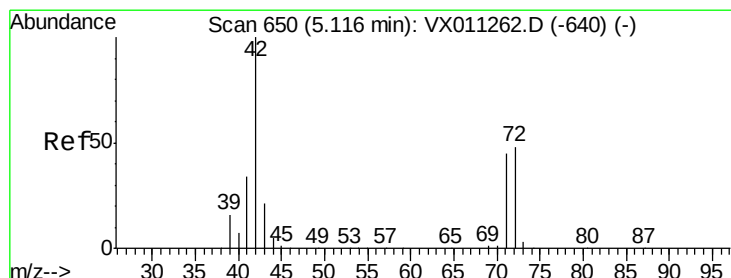
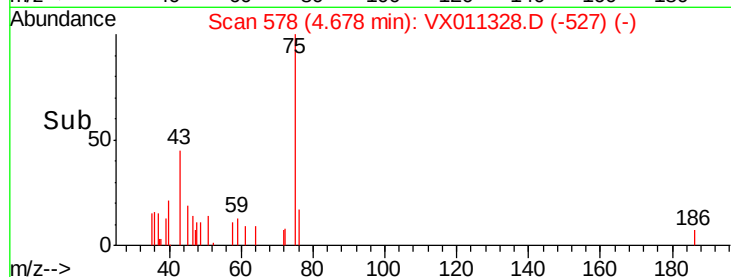
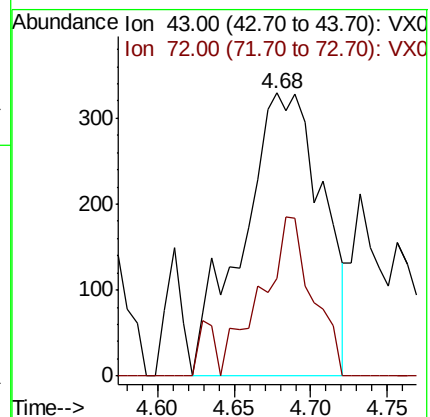
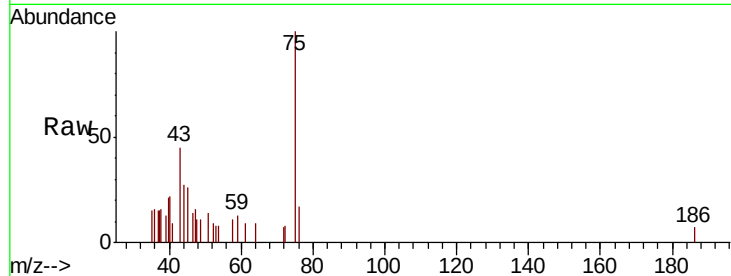
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 1194

Ion Ratio Lower Upper

43 100

72 34.3 23.2 34.8



#29

Tetrahydrofuran

Concen: 0.462 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.02 min

Lab File: VX011328.D

Acq: 05 Aug 2019 16:03

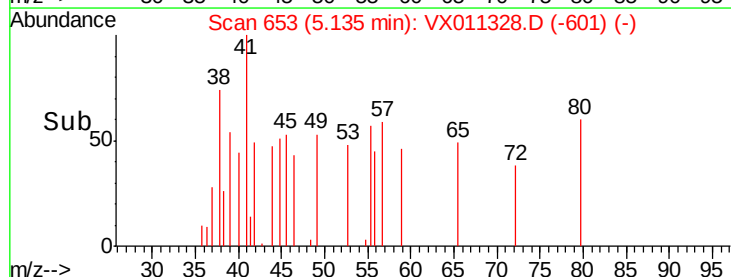
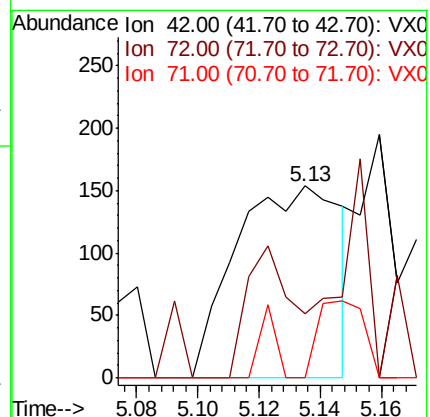
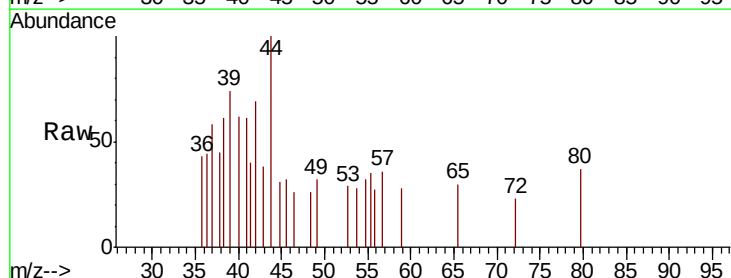
Tgt Ion: 42 Resp: 365

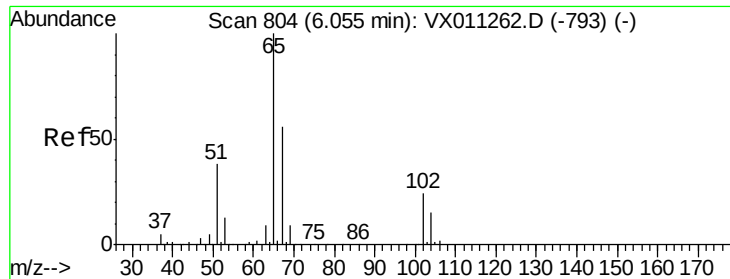
Ion Ratio Lower Upper

42 100

72 38.9 39.9 59.9#

71 17.8 36.9 55.3#

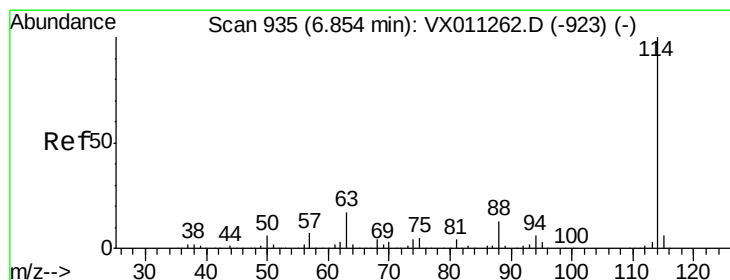
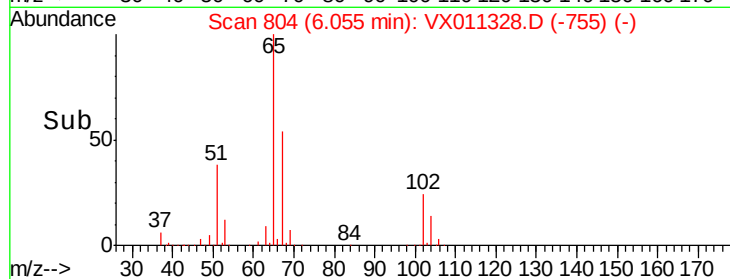
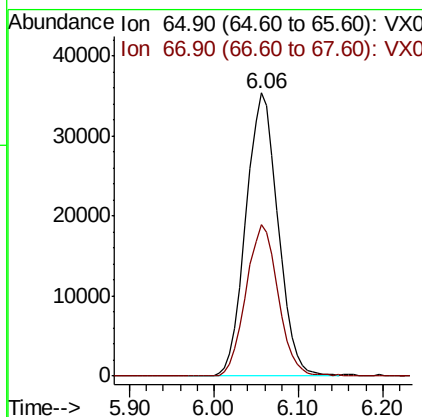
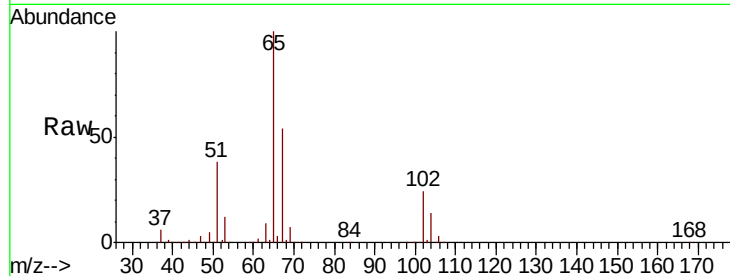




#33
 1,2-Dichloroethane-d4
 Concen: 48.106 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. 0.00 min
 Lab File: VX011328.D
 Acq: 05 Aug 2019 16:03

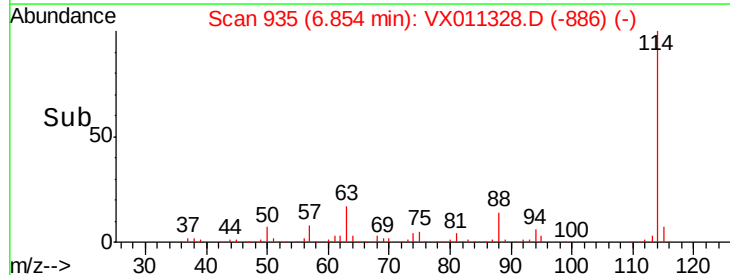
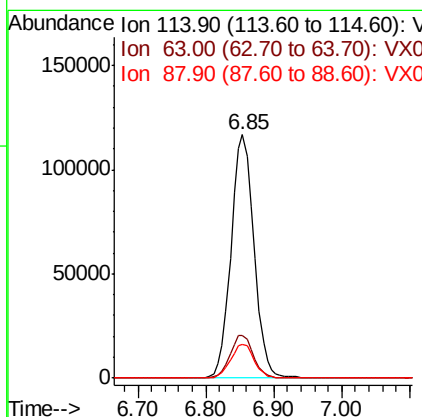
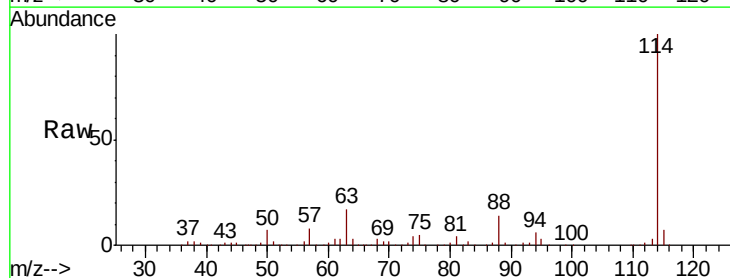
Instrument :
 MSVOA_X
 ClientSampleId :

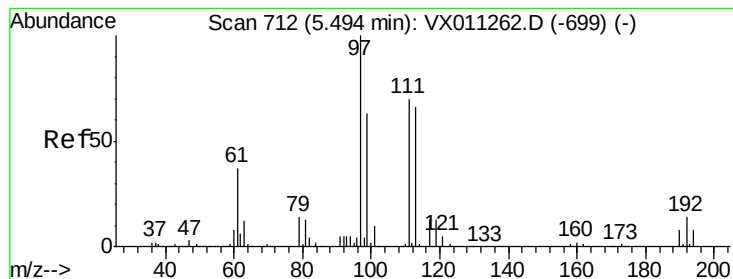
Tot Ion: 65 Resp: 91559
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011328.D
 Acq: 05 Aug 2019 16:03

Tgt Ion: 114 Resp: 273464
 Ion Ratio Lower Upper
 114 100
 63 17.3 0.0 34.0
 88 14.0 0.0 26.4





#35

Dibromofluoromethane

Concen: 46.081 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011328.D

Acq: 05 Aug 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

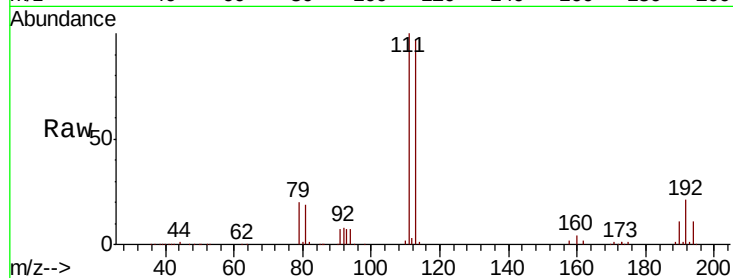
Tot Ion:113 Resp: 82272

Ion Ratio Lower Upper

113 100

111 102.1 81.9 122.9

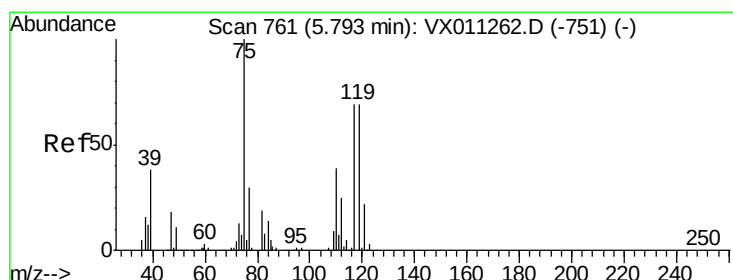
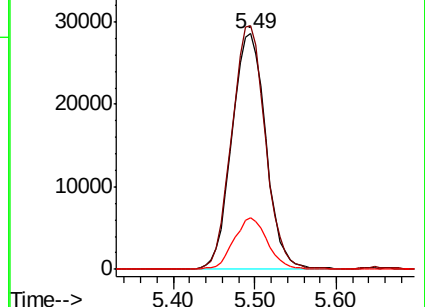
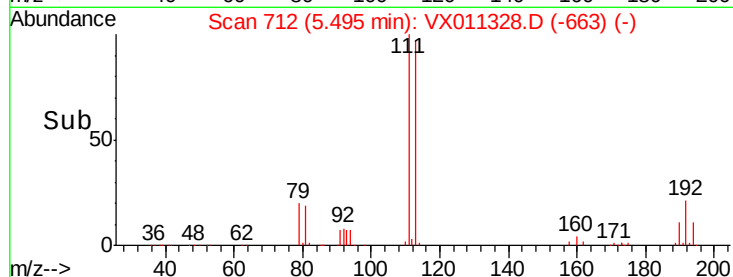
192 21.8 17.8 26.8



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: 5.126 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011328.D

Acq: 05 Aug 2019 16:03

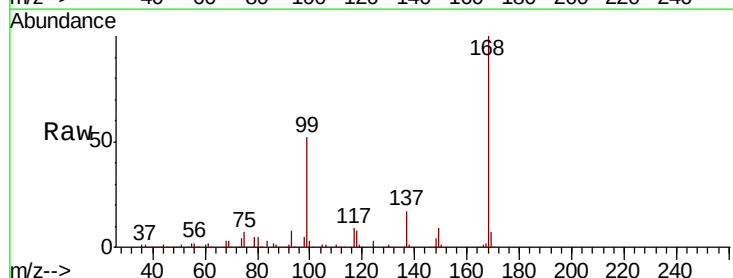
Tgt Ion: 75 Resp: 12239

Ion Ratio Lower Upper

75 100

110 11.7 20.0 59.9#

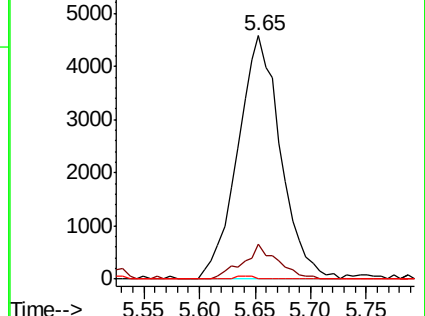
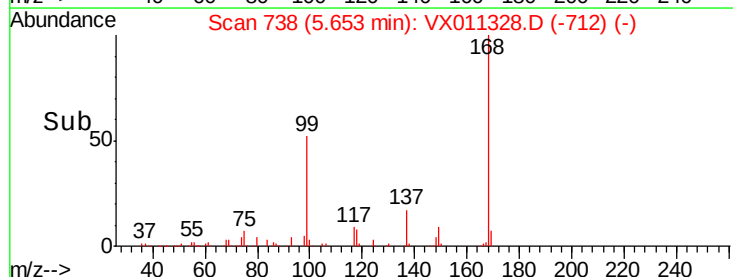
77 0.5 24.8 37.2#

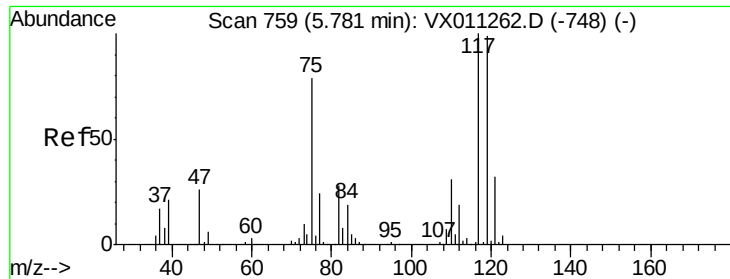


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



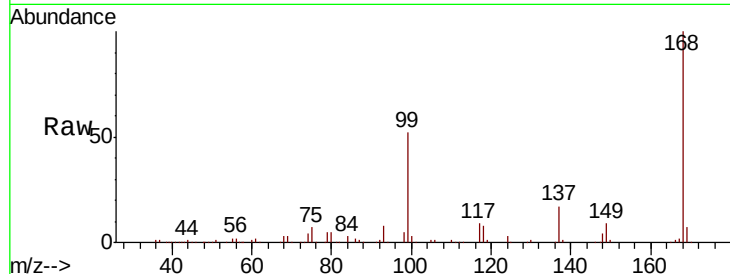


#38

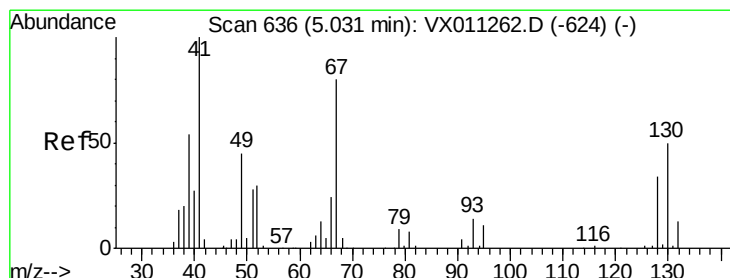
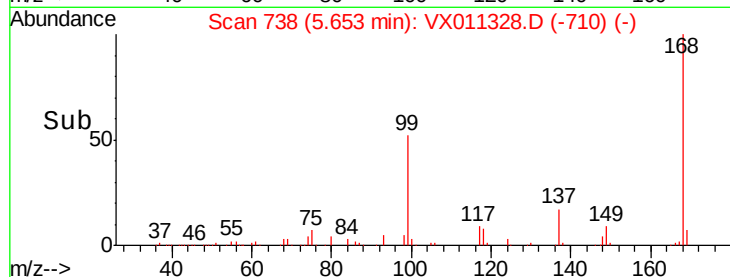
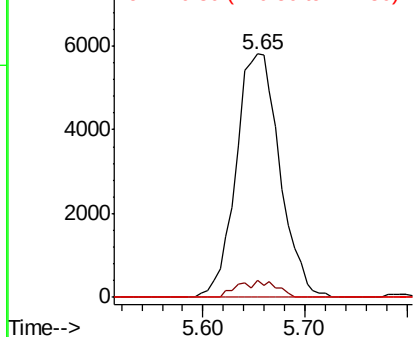
Carbon Tetrachloride
 Concen: 7.191 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.13 min
 Lab File: VX011328.D
 Acq: 05 Aug 2019 16:03

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:117 Resp: 17273
 Ion Ratio Lower Upper
 117 100
 119 7.1 79.0 118.4#
 121 0.0 25.9 38.9#



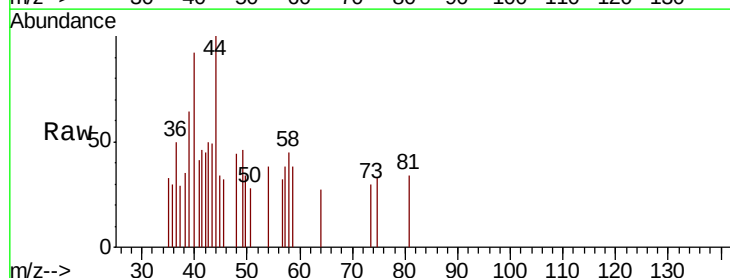
Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V



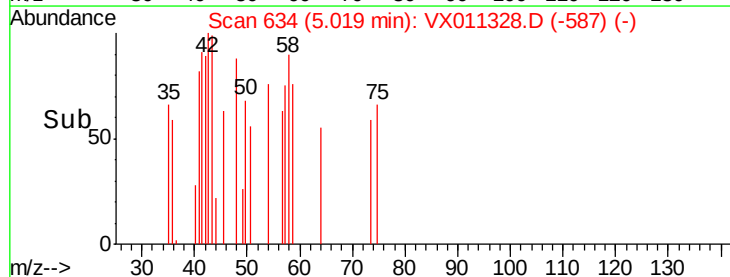
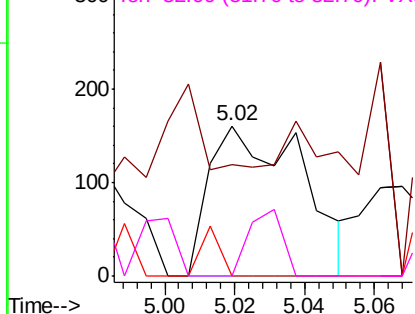
#41

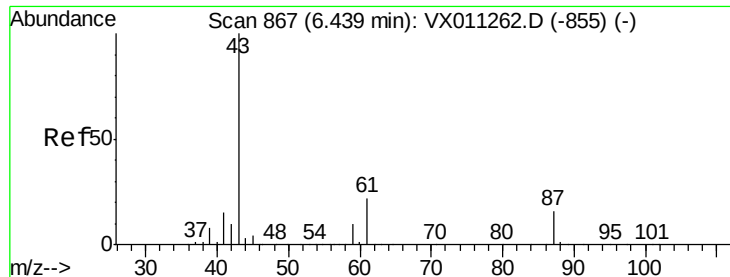
Methacrylonitrile
 Concen: 0.226 ug/l
 RT: 5.02 min Scan# 634
 Delta R.T. -0.01 min
 Lab File: VX011328.D
 Acq: 05 Aug 2019 16:03

Tgt Ion: 41 Resp: 296
 Ion Ratio Lower Upper
 41 100
 39 137.2 43.0 64.6#
 67 6.8 65.1 97.7#
 52 14.9 24.8 37.2#



Abundance Ion 41.00 (40.70 to 41.70): VX0
 Ion 39.00 (38.70 to 39.70): VX0
 Ion 67.00 (66.70 to 67.70): VX0
 Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 2.165 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.01 min

Lab File: VX011328.D

Acq: 05 Aug 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

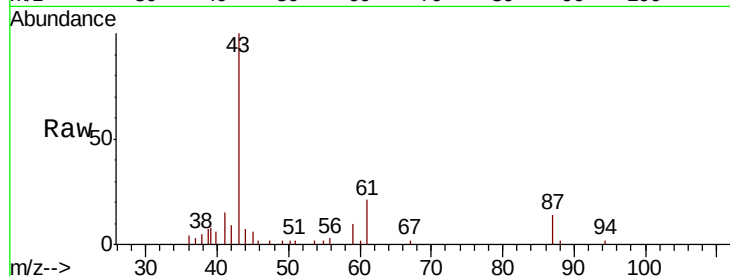
Tot Ion: 43 Resp: 8288

Ion Ratio Lower Upper

43 100

61 23.3 16.5 24.7

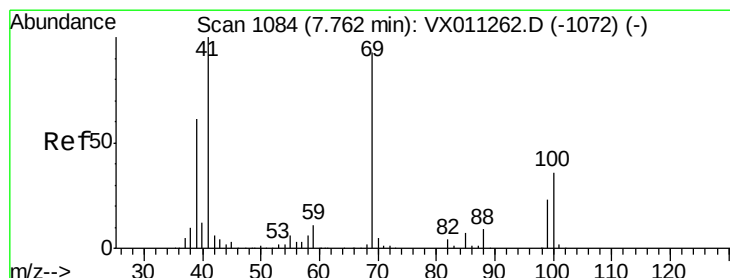
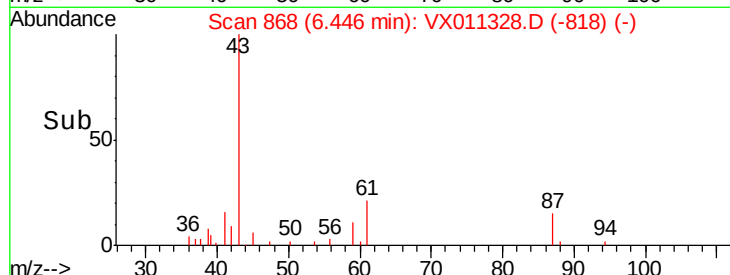
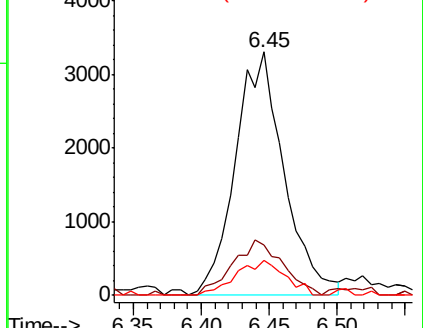
87 14.5 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.994 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011328.D

Acq: 05 Aug 2019 16:03

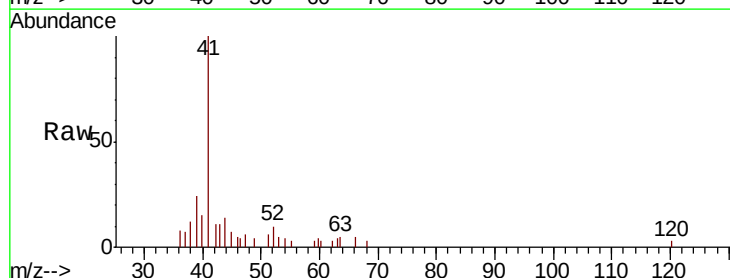
Tgt Ion: 41 Resp: 3594

Ion Ratio Lower Upper

41 100

69 1.4 74.5 111.7#

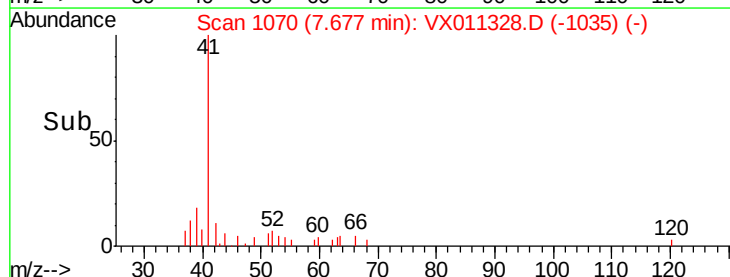
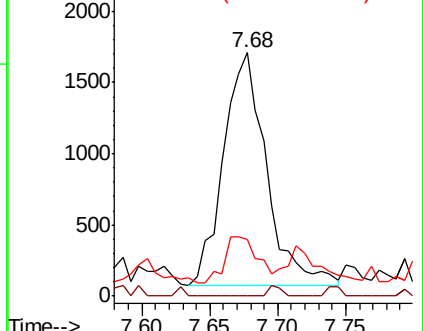
39 0.0 48.6 72.8#

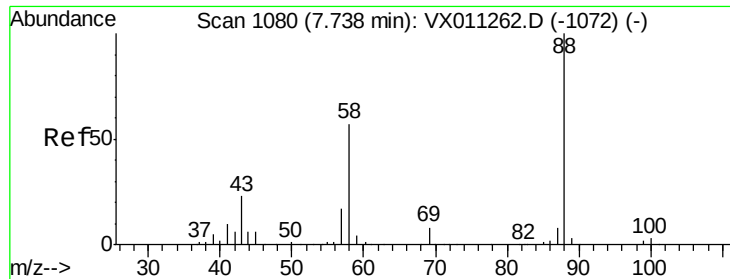


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

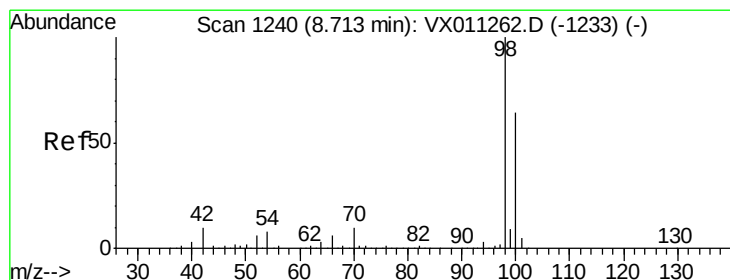
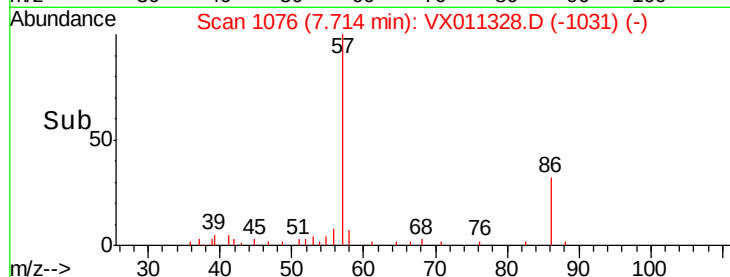
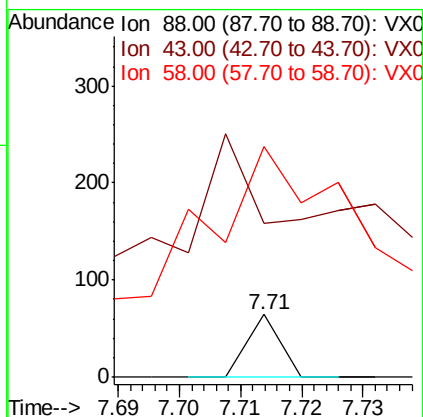
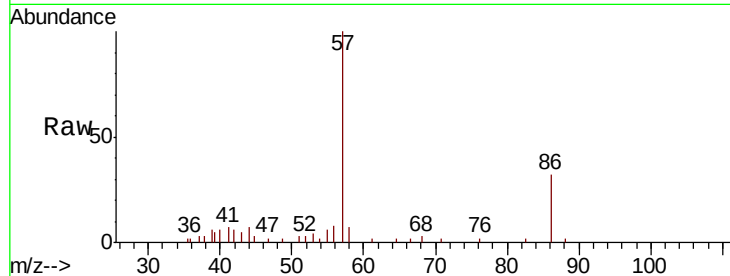




#49
1,4-Dioxane
Concen: 0.440 ug/l
RT: 7.71 min Scan# 1076
Delta R.T. -0.02 min
Lab File: VX011328.D
Acq: 05 Aug 2019 16:03

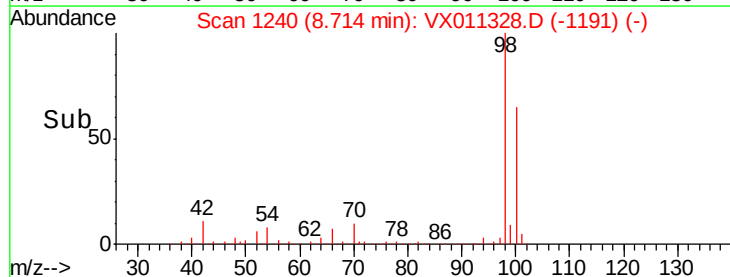
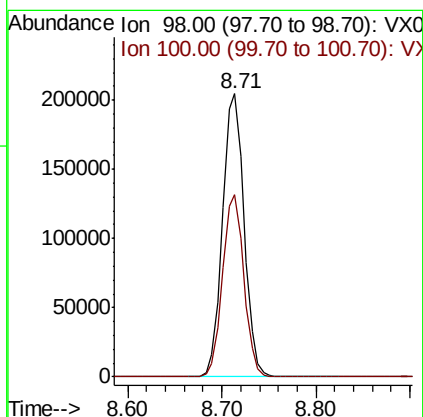
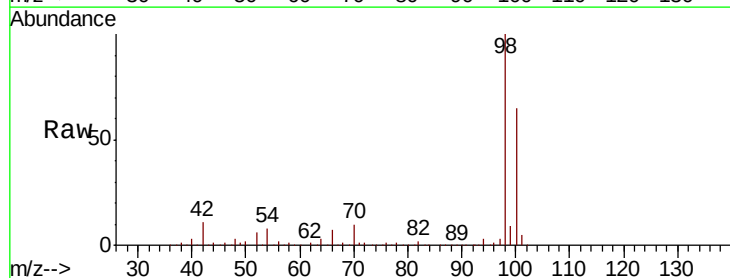
Instrument :
MSVOA_X
ClientSampled :

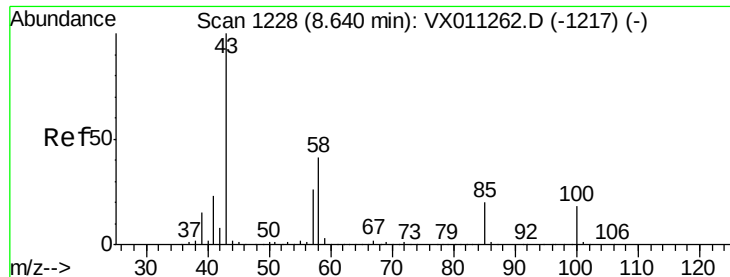
Tot Ion: 88 Resp: 23
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 2269.6 47.8 71.8#



#50
Toluene-d8
Concen: 48.149 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011328.D
Acq: 05 Aug 2019 16:03

Tgt Ion: 98 Resp: 324493
Ion Ratio Lower Upper
98 100
100 63.7 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 16.641 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011328.D

Acq: 05 Aug 2019 16:03

Instrument :

MSVOA_X

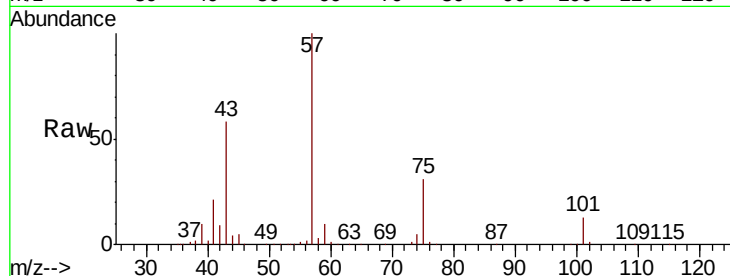
ClientSampled :

Tot Ion: 43 Resp: 41120

Ion Ratio Lower Upper

43 100

58 8.4 32.3 48.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.61

25000

20000

15000

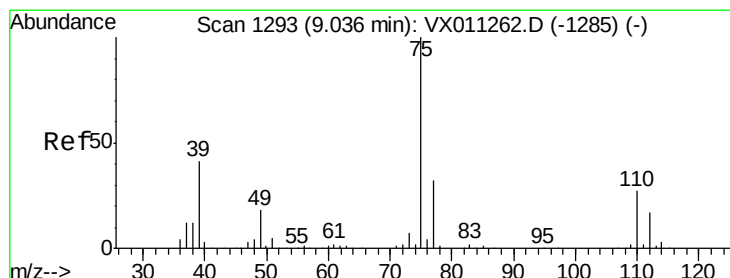
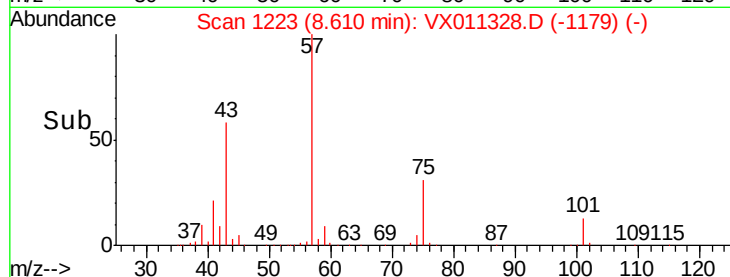
10000

5000

0

8.55 8.60 8.65 8.70

Time-->



#53

t-1,3-Dichloropropene

Concen: 2.880 ug/l

RT: 9.01 min Scan# 1289

Delta R.T. -0.02 min

Lab File: VX011328.D

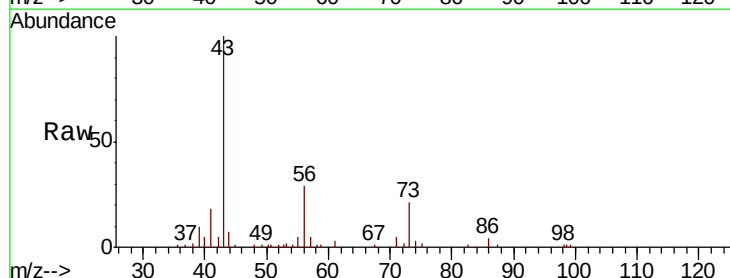
Acq: 05 Aug 2019 16:03

Tgt Ion: 75 Resp: 117

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

9.01

100

80

60

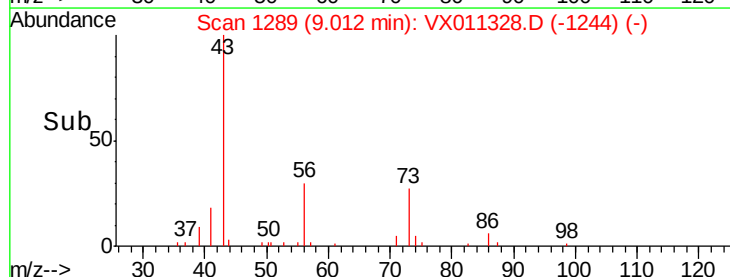
40

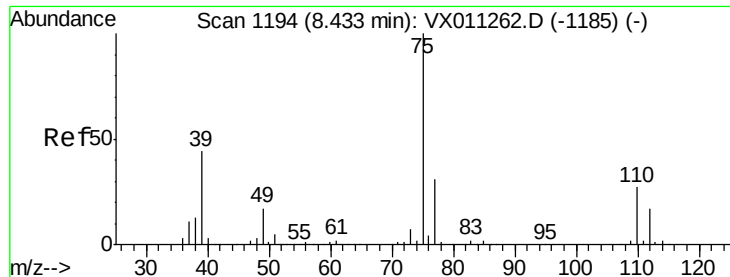
20

0

8.98 9.00 9.02 9.04

Time-->



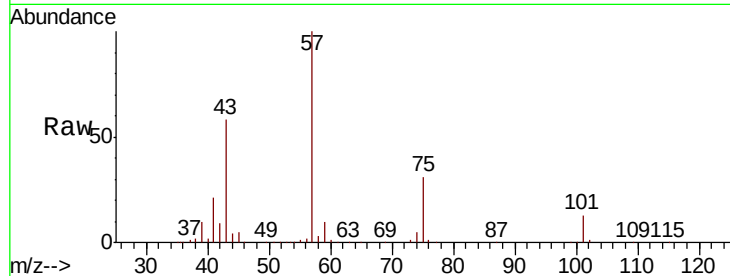


#54

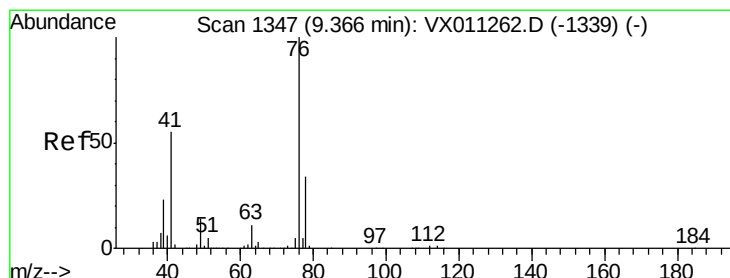
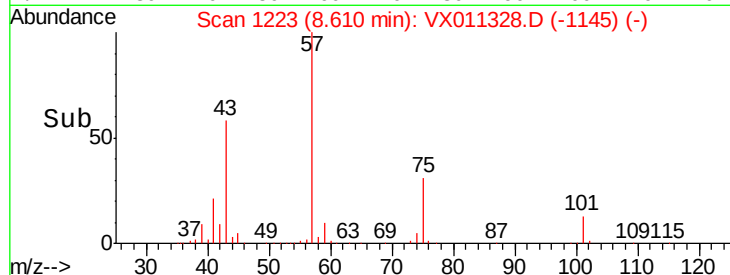
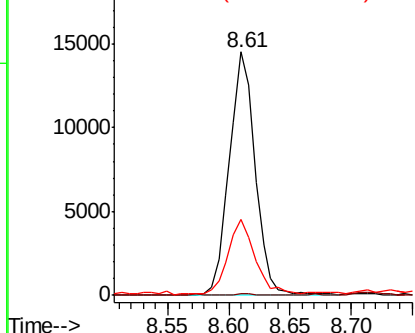
cis-1,3-Dichloropropene
 Concen: 7.972 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011328.D
 Acq: 05 Aug 2019 16:03

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.8	25.0	37.6#
39	30.0	35.3	52.9#



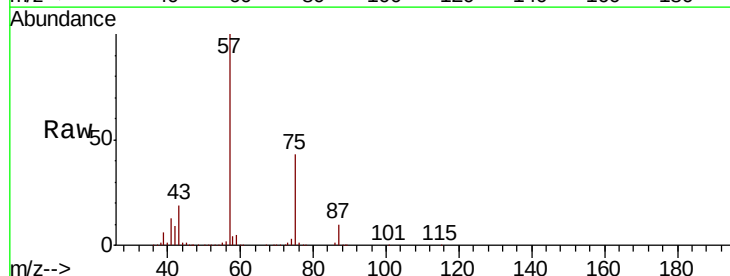
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



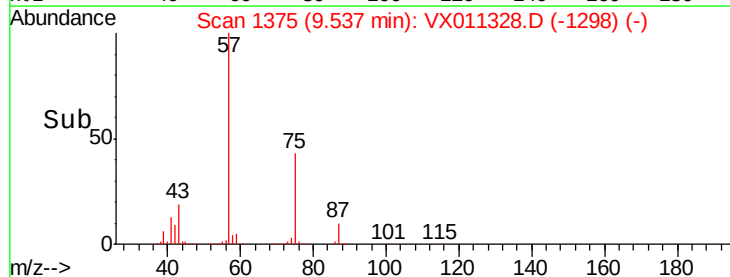
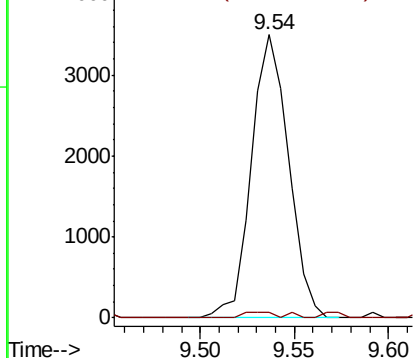
#57

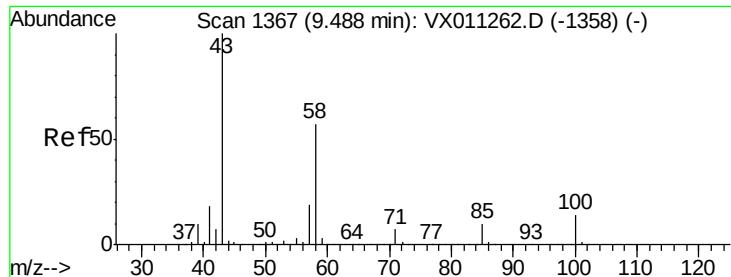
1,3-Dichloropropane
 Concen: 1.562 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.17 min
 Lab File: VX011328.D
 Acq: 05 Aug 2019 16:03

Tgt Ion	Ratio	Lower	Upper
76	100		
78	2.1	26.6	40.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0
 Ion 77.90 (77.60 to 78.60): VX0

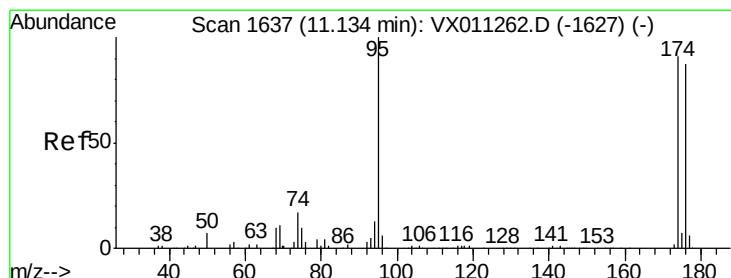
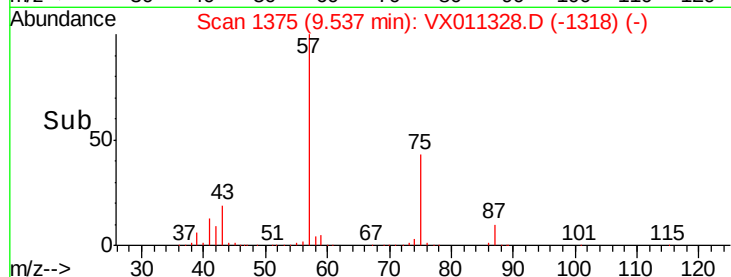
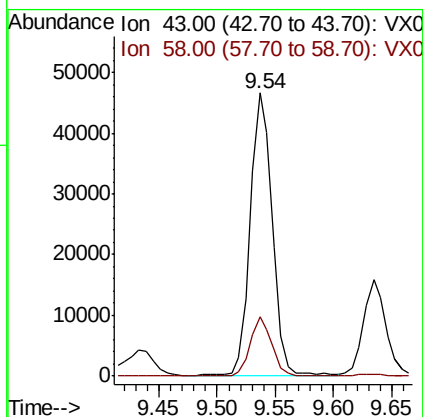
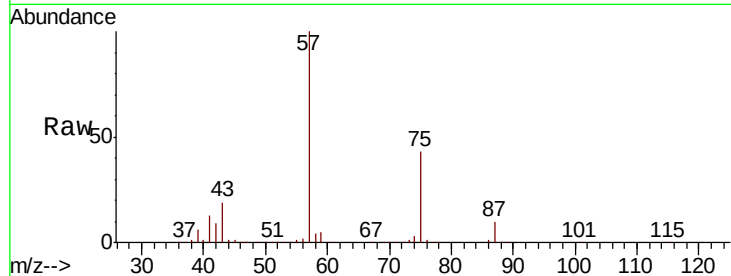




#59
2-Hexanone
Concen: 32.105 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011328.D
Acq: 05 Aug 2019 16:03

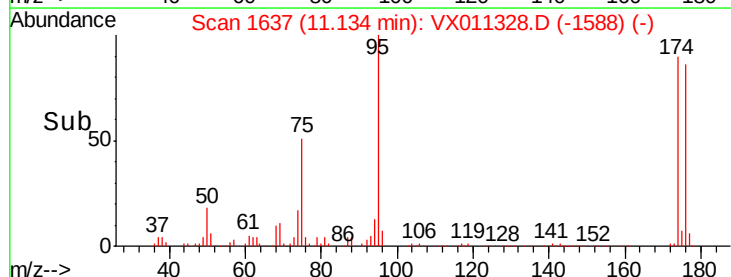
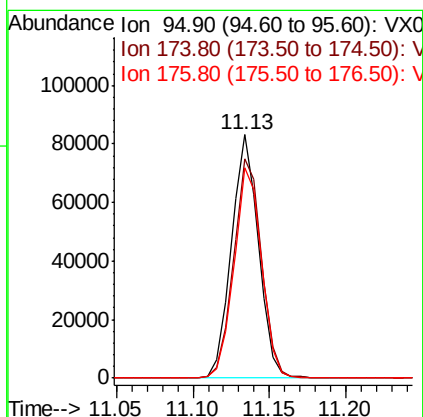
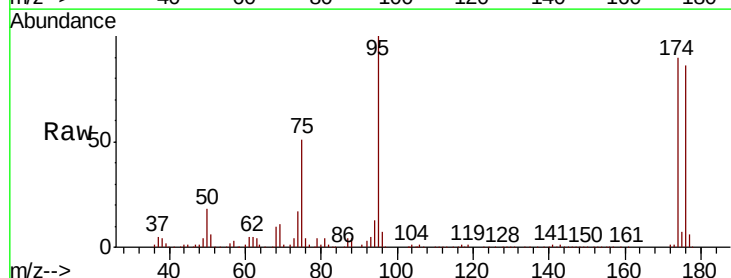
Instrument :
MSVOA_X
ClientSampleId :

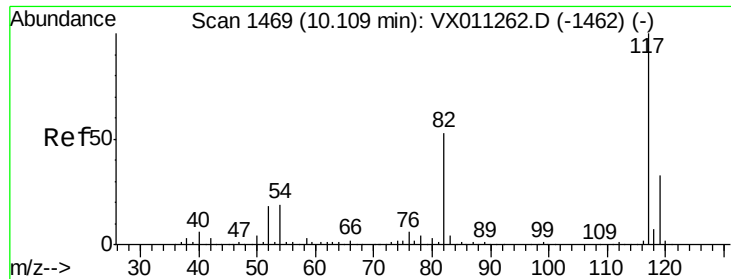
Tot Ion: 43 Resp: 61449
Ion Ratio Lower Upper
43 100
58 20.7 28.2 84.6#



#62
4-Bromofluorobenzene
Concen: 42.293 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011328.D
Acq: 05 Aug 2019 16:03

Tgt Ion: 95 Resp: 101762
Ion Ratio Lower Upper
95 100
174 93.1 0.0 191.2
176 88.3 0.0 184.8

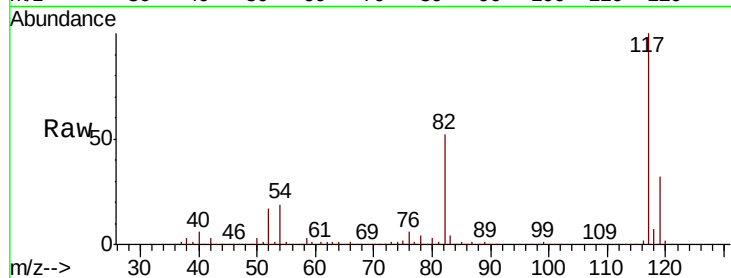




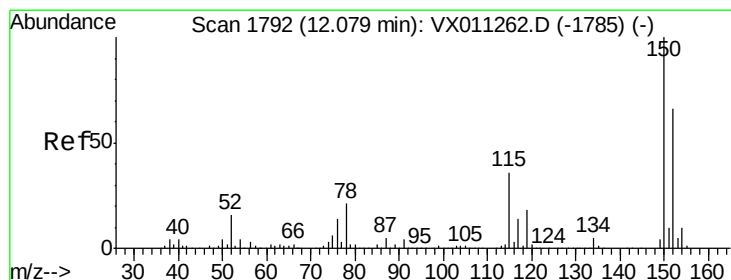
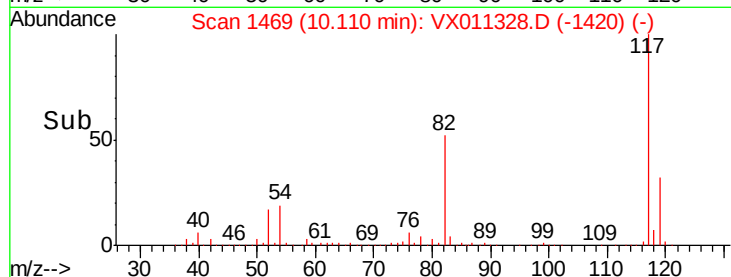
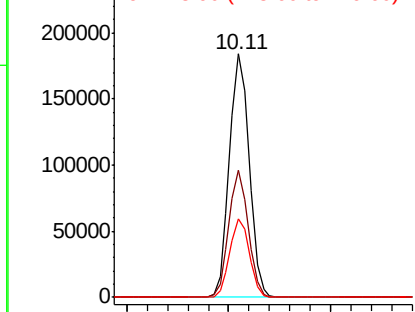
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011328.D
Acq: 05 Aug 2019 16:03

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.2	42.2	63.2
119	32.3	26.6	39.8

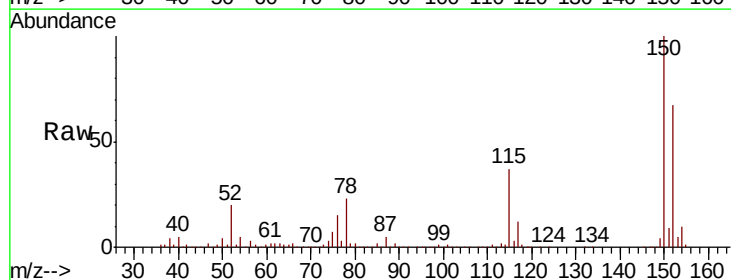


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

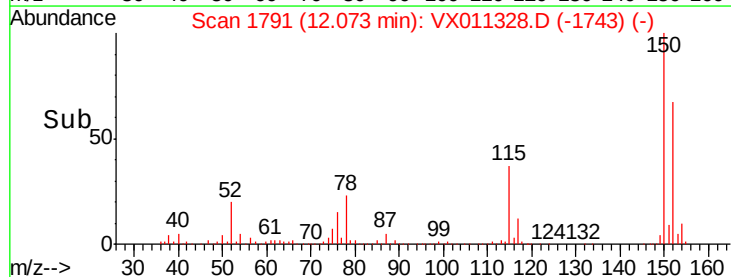
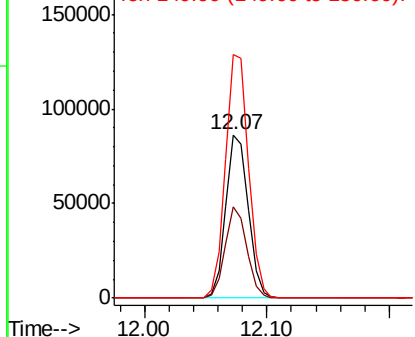


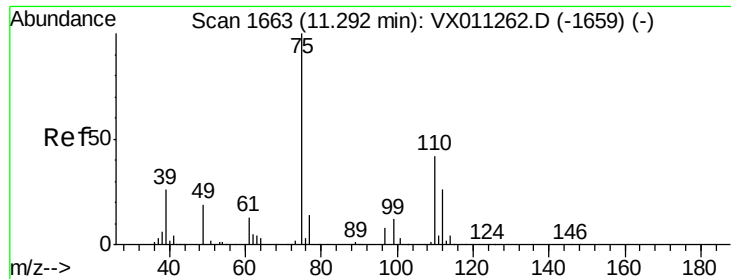
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011328.D
Acq: 05 Aug 2019 16:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.4	40.0	119.9
150	152.6	0.0	350.4



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: 25.386 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011328.D

Acq: 05 Aug 2019 16:03

Instrument :

MSVOA_X

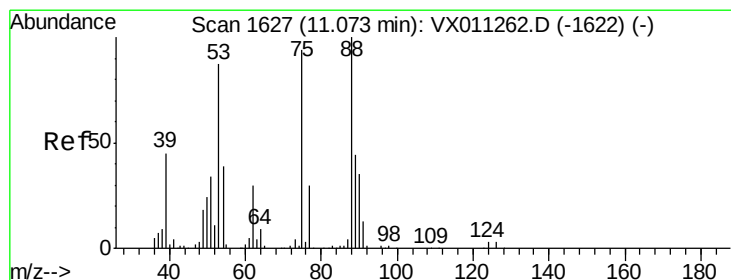
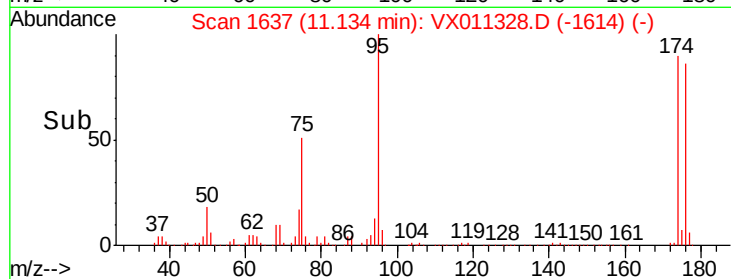
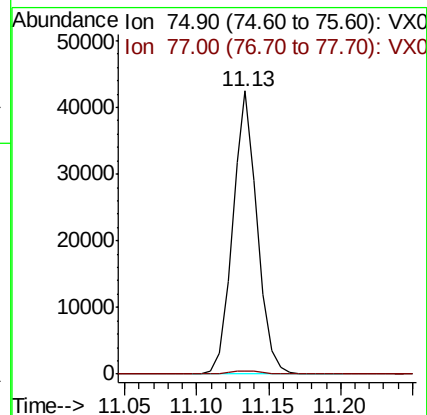
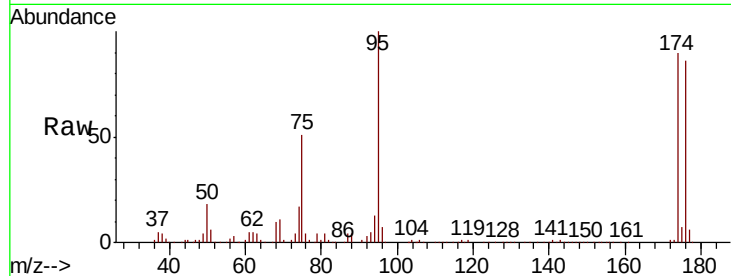
ClientSampled :

Tot Ion: 75 Resp: 50610

Ion Ratio Lower Upper

75 100

77 1.3 21.1 63.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.176 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011328.D

Acq: 05 Aug 2019 16:03

Tgt Ion: 75 Resp: 50610

Ion Ratio Lower Upper

75 100

53 0.3 78.2 117.4#

89 0.1 37.9 56.9#

