

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081119\
 Data File : VX011468.D
 Acq On : 12 Aug 2019 06:38
 Operator : JC/SP
 Sample : K4230-28
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-D3-(1)

Quant Time: Aug 12 08:00:36 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	192940	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	290435	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	268326	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	120601	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	105711	54.41	ug/l	0.00
Spiked Amount			Recovery	=	108.82%	
35) Dibromofluoromethane	5.49	113	88555	46.70	ug/l	0.00
Spiked Amount			Recovery	=	93.40%	
50) Toluene-d8	8.71	98	349268	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
62) 4-Bromofluorobenzene	11.13	95	115989	45.39	ug/l	0.00
Spiked Amount			Recovery	=	90.78%	

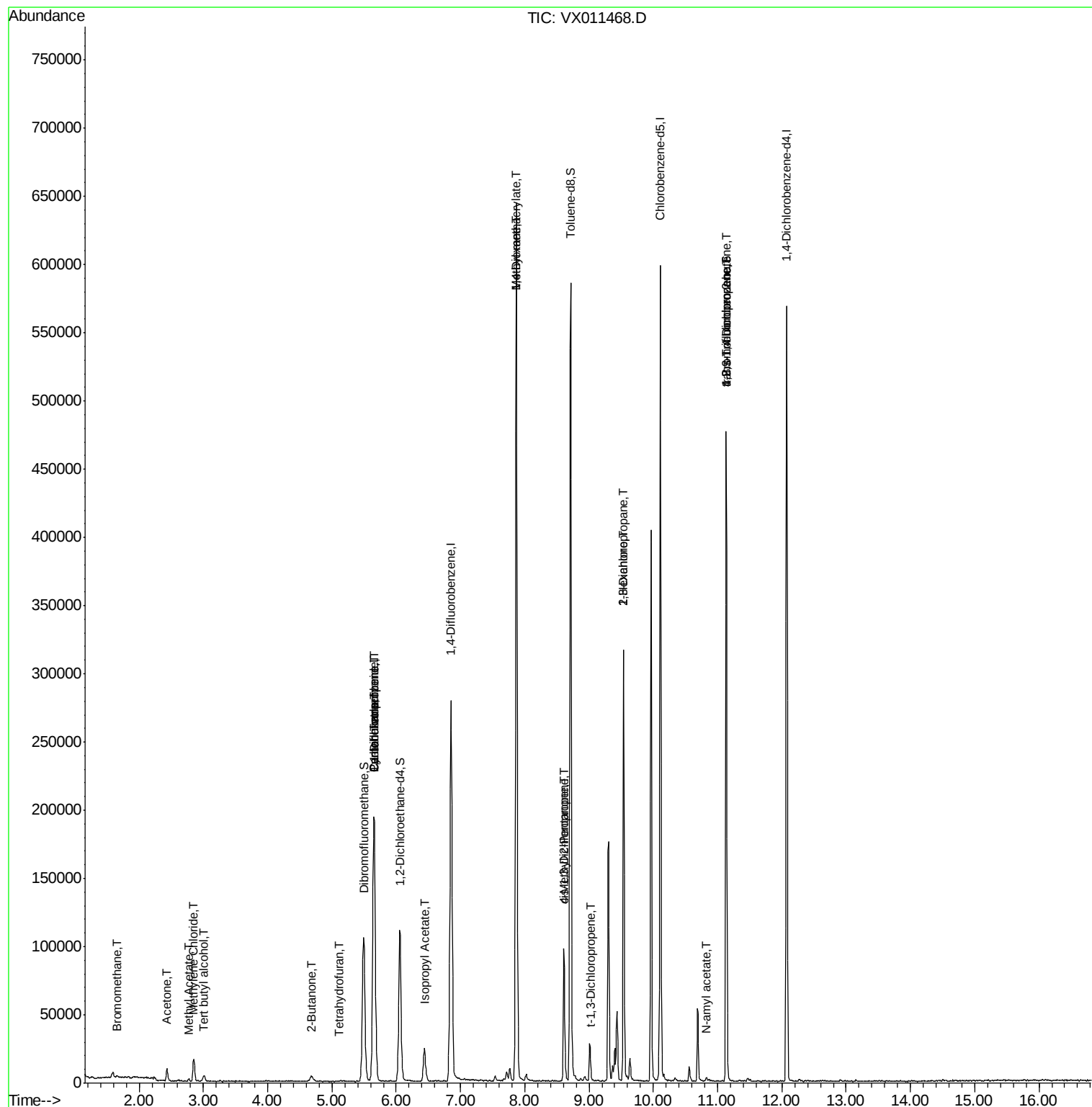
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	310	0.236	ug/l	82
6) Chloroethane	1.73	64	203	Below Cal	#	43
11) Tert butyl alcohol	3.00	59	2682	6.944	ug/l #	75
13) Acrolein	2.29	56	69	Below Cal		85
16) Acetone	2.43	43	8538	9.232	ug/l	96
18) Methyl Acetate	2.76	43	2048	0.969	ug/l	93
20) Methylene Chloride	2.85	84	8031	3.965	ug/l	94
25) 2-Butanone	4.69	43	1249	0.949	ug/l	90
29) Tetrahydrofuran	5.12	42	225	0.279	ug/l #	29
31) Cyclohexane	5.65	56	3596	1.437	ug/l #	29
36) 1,1-Dichloropropene	5.66	75	13293	5.242	ug/l #	50
38) Carbon Tetrachloride	5.66	117	18277	7.164	ug/l #	15
43) Isopropyl Acetate	6.44	43	31551	7.759	ug/l	98
48) Methyl methacrylate	7.87	41	55893	29.205	ug/l #	38
49) 1,4-Dioxane	7.87	88	137	2.469	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	31388	11.960	ug/l #	51
53) t-1,3-Dichloropropene	9.04	75	19	2.845	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	15241	5.387	ug/l #	68
57) 1,3-Dichloropropane	9.54	76	2776	0.853	ug/l #	41
59) 2-Hexanone	9.54	43	35352	17.391	ug/l #	52
74) N-amyl acetate	10.83	43	1527	0.512	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	59445	27.066	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	59445	70.257	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: VX011468.D

Acq: 12 Aug 2019 06:38

Instrument :

MSVOA_X

ClientSampleId :

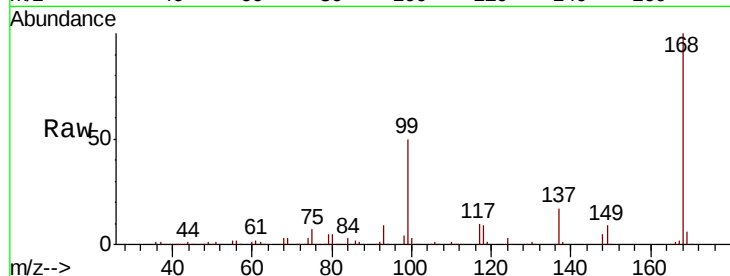
2S-D3-(1)

Tgt Ion:168 Resp: 192940

Ion Ratio Lower Upper

168 100

99 50.0 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

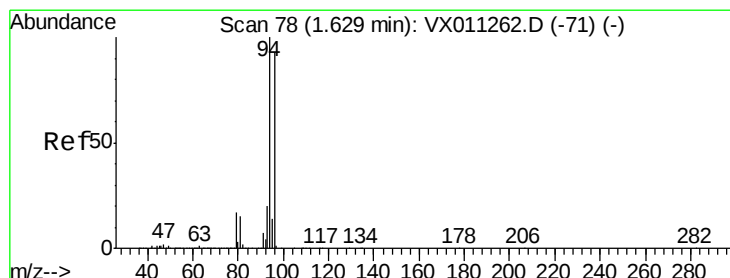
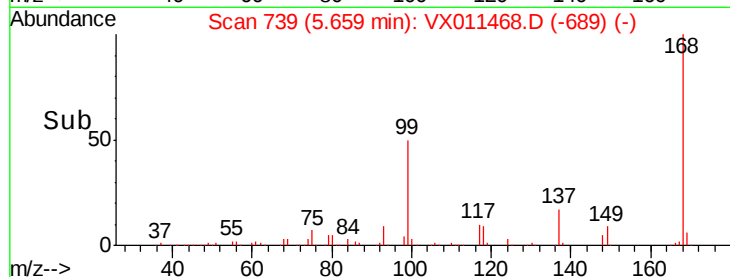
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.236 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX011468.D

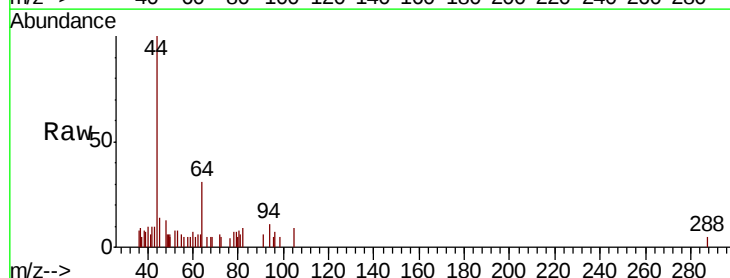
Acq: 12 Aug 2019 06:38

Tgt Ion: 94 Resp: 310

Ion Ratio Lower Upper

94 100

96 110.8 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

150

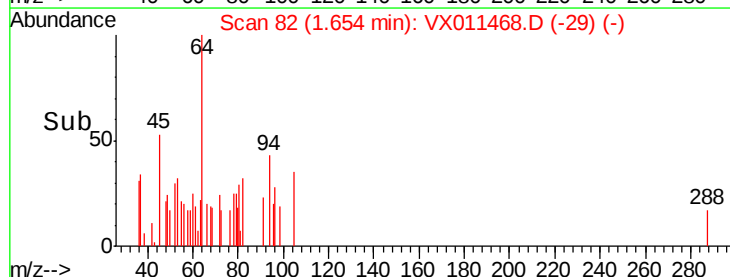
100

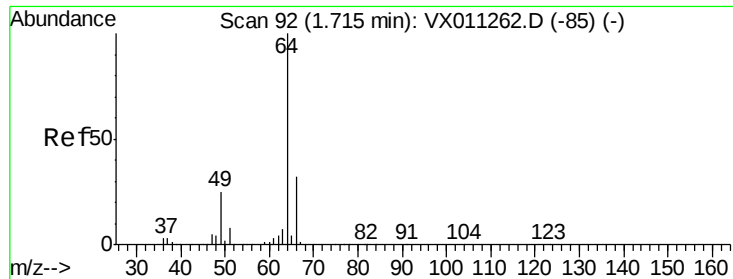
50

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX011468.D

Acq: 12 Aug 2019 06:38

Instrument :

MSVOA_X

ClientSampled :

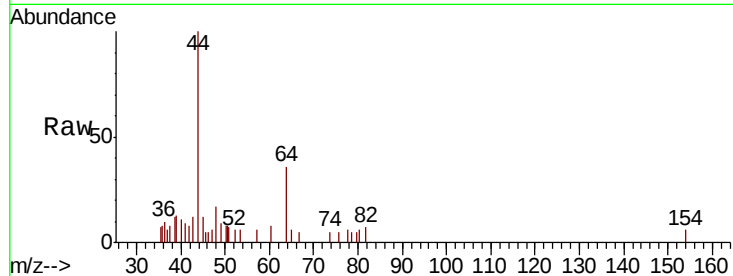
2S-D3-(1)

Tgt Ion: 64 Resp: 203

Ion Ratio Lower Upper

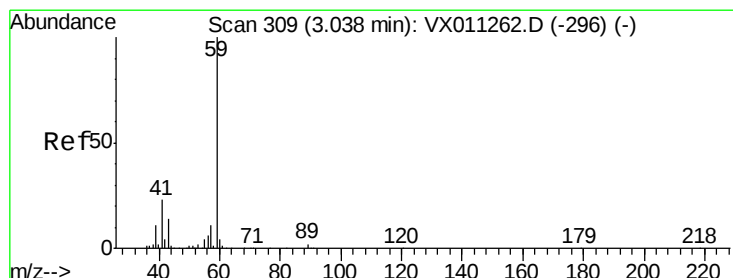
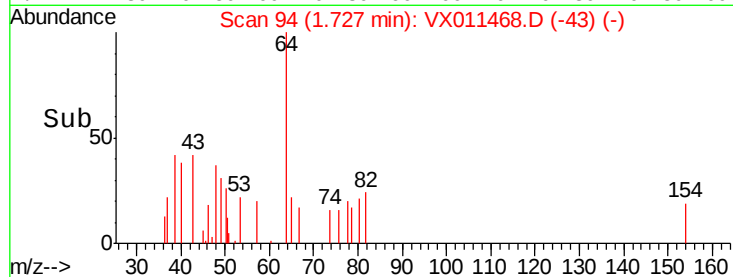
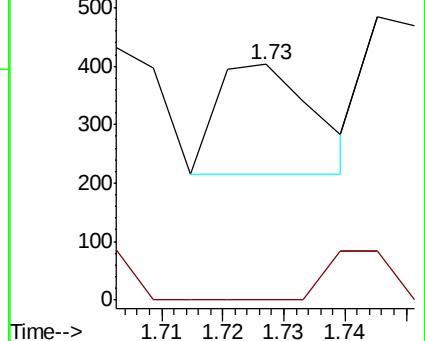
64 100

66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 6.944 ug/l

RT: 3.00 min Scan# 303

Delta R.T. -0.04 min

Lab File: VX011468.D

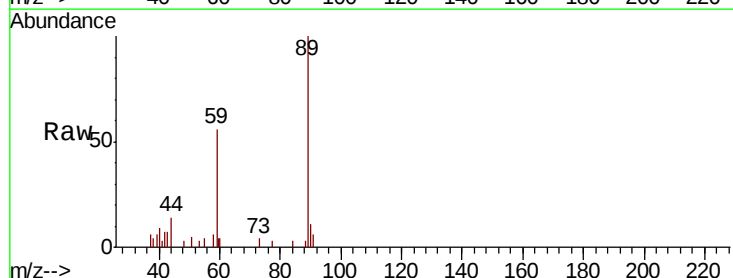
Acq: 12 Aug 2019 06:38

Tgt Ion: 59 Resp: 2682

Ion Ratio Lower Upper

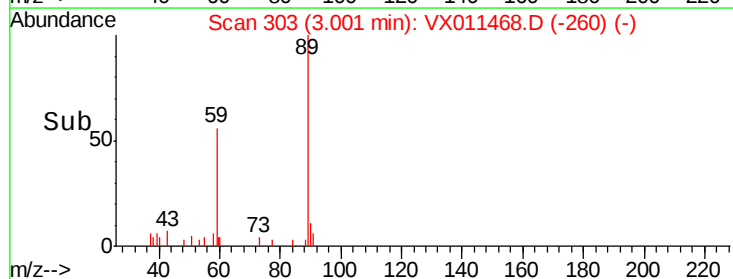
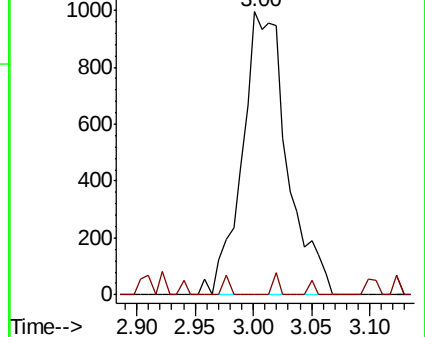
59 100

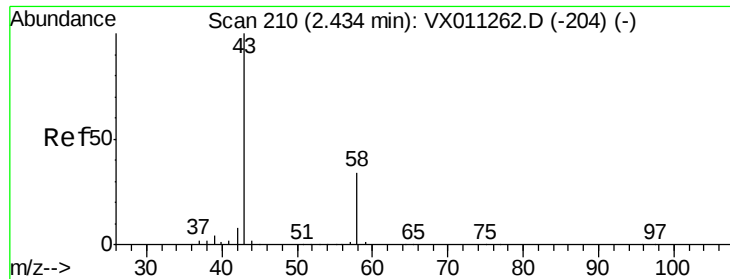
57 1.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 9.232 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011468.D

Acq: 12 Aug 2019 06:38

Instrument :

MSVOA_X

ClientSampleId :

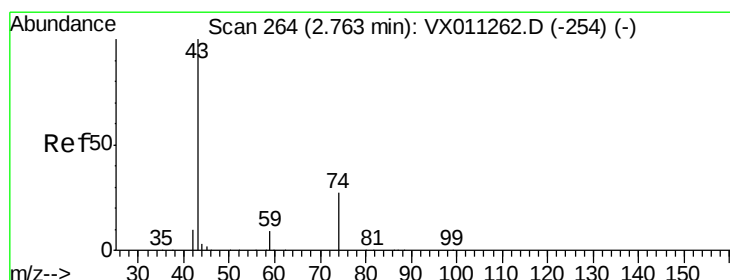
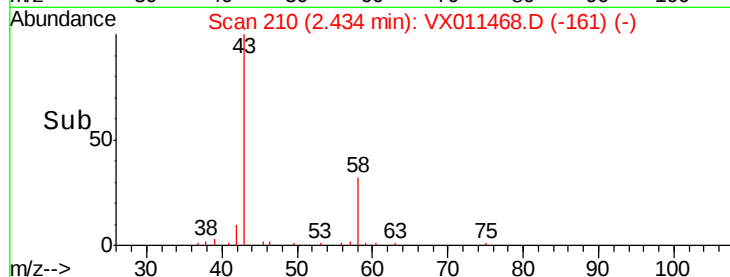
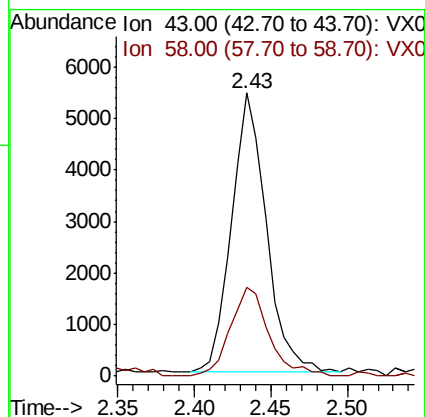
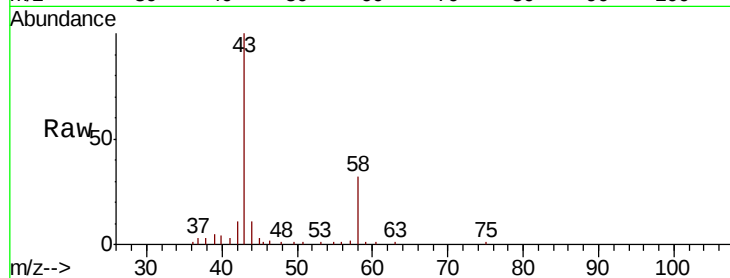
2S-D3-(1)

Tgt Ion: 43 Resp: 8538

Ion Ratio Lower Upper

43 100

58 32.0 27.4 41.0



#18

Methyl Acetate

Concen: 0.969 ug/l

RT: 2.76 min Scan# 264

Delta R.T. 0.00 min

Lab File: VX011468.D

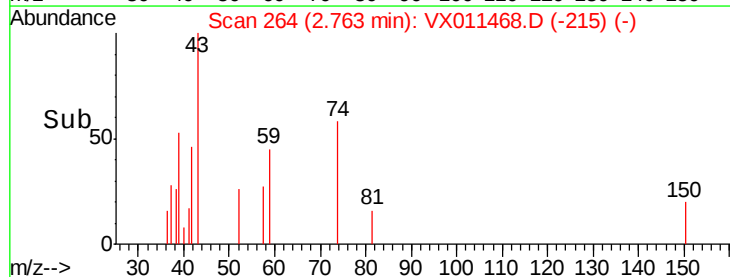
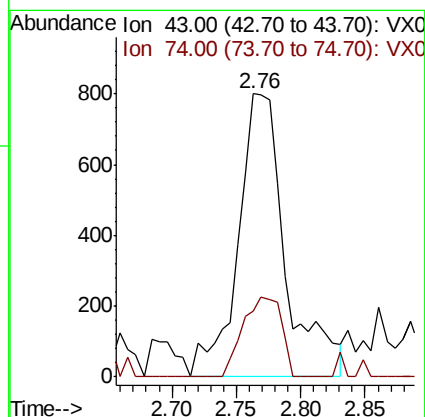
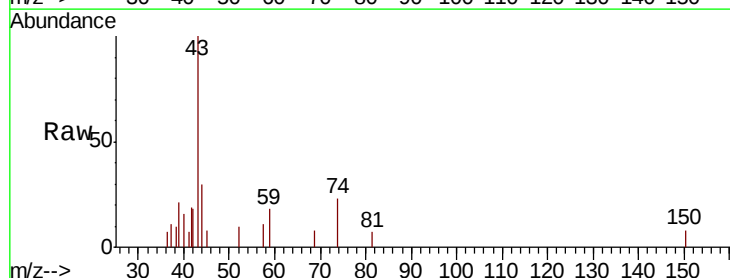
Acq: 12 Aug 2019 06:38

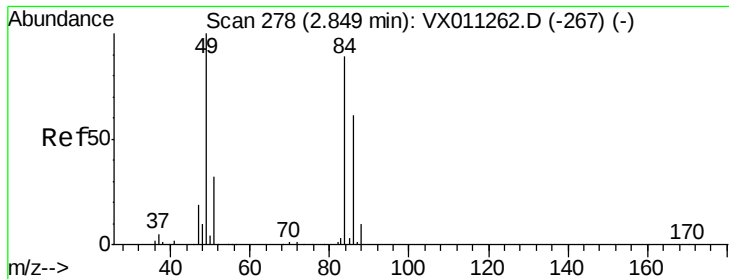
Tgt Ion: 43 Resp: 2048

Ion Ratio Lower Upper

43 100

74 22.9 21.0 31.6

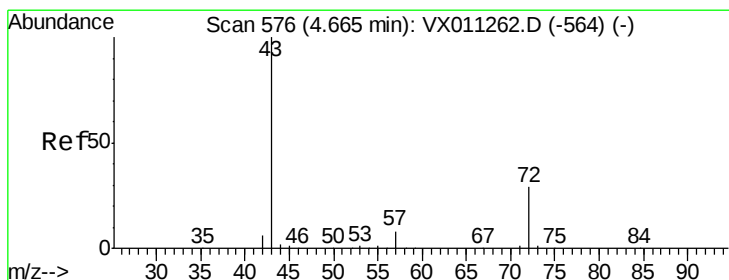
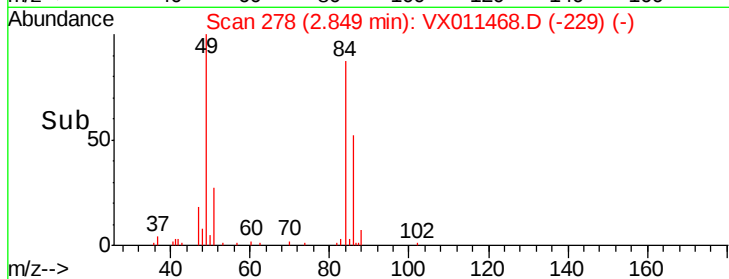
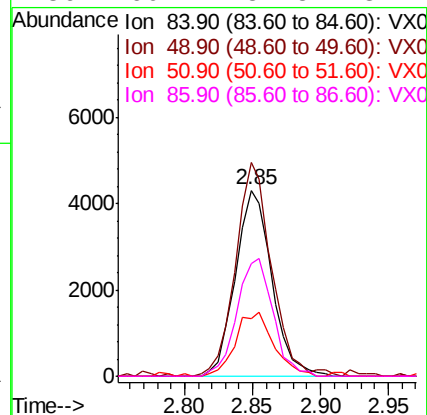
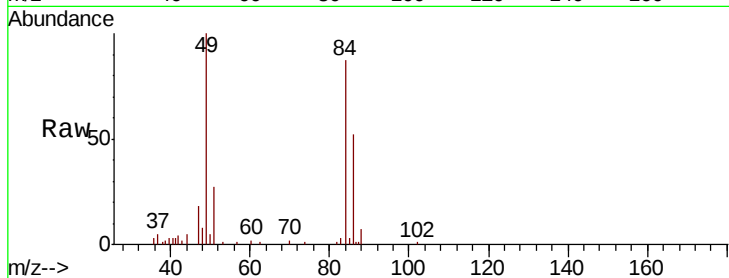




#20
Methylene Chloride
Concen: 3.965 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011468.D
Acq: 12 Aug 2019 06:38

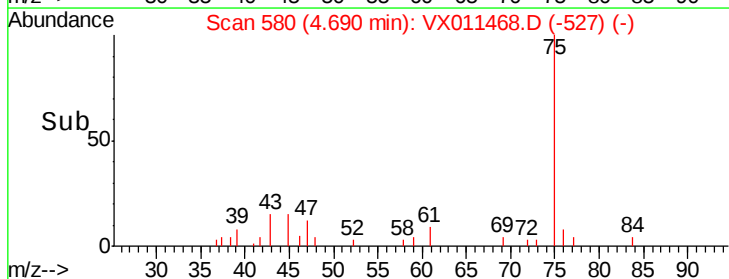
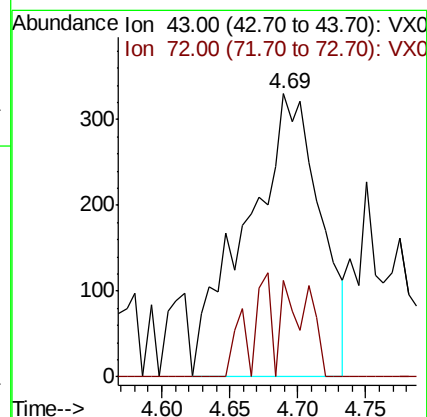
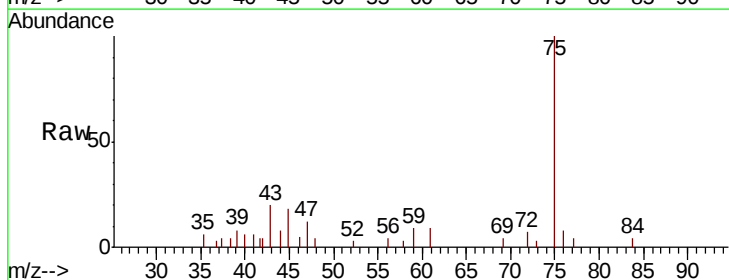
Instrument :
MSVOA_X
ClientSampleId :
2S-D3-(1)

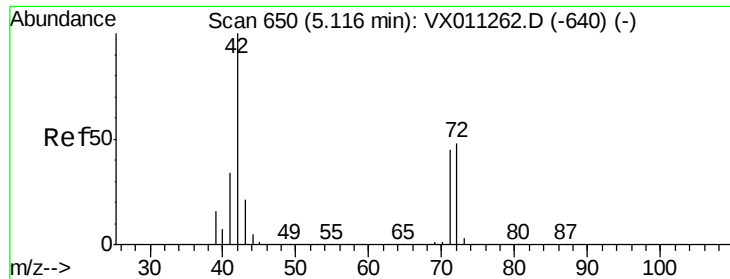
Tgt Ion:	84	Resp:	8031
Ion	Ratio	Lower	Upper
84	100		
49	114.8	89.3	133.9
51	30.9	28.3	42.5
86	60.2	54.5	81.7



#25
2-Butanone
Concen: 0.949 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.02 min
Lab File: VX011468.D
Acq: 12 Aug 2019 06:38

Tgt Ion:	43	Resp:	1249
Ion	Ratio	Lower	Upper
43	100		
72	34.2	23.2	34.8





#29

Tetrahydrofuran

Concen: 0.279 ug/l

RT: 5.12 min Scan# 650

Delta R.T. 0.00 min

Lab File: VX011468.D

Acq: 12 Aug 2019 06:38

Instrument :

MSVOA_X

ClientSampled :

2S-D3-(1)

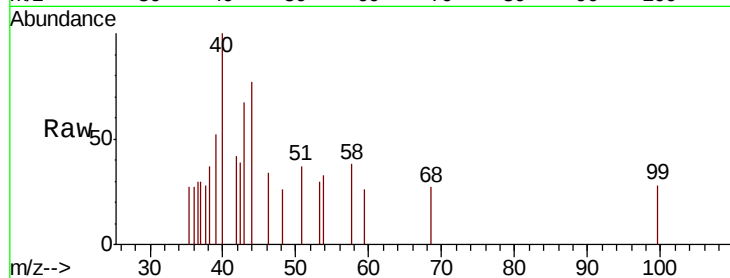
Tgt Ion: 42 Resp: 225

Ion Ratio Lower Upper

42 100

72 0.0 39.9 59.9#

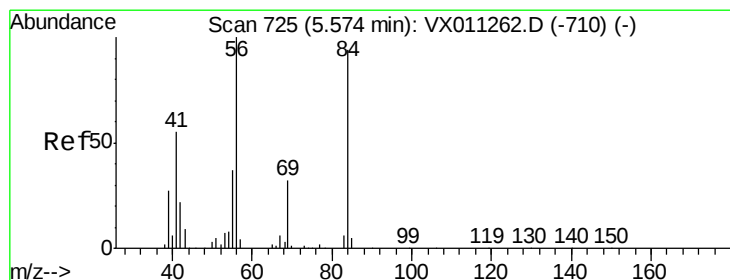
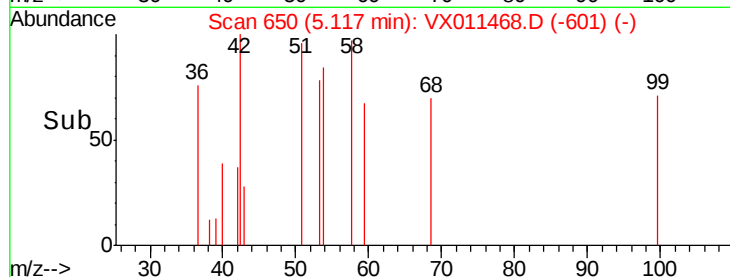
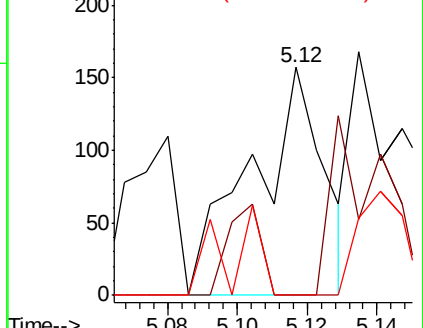
71 0.0 36.9 55.3#



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



#31

Cyclohexane

Concen: 1.437 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX011468.D

Acq: 12 Aug 2019 06:38

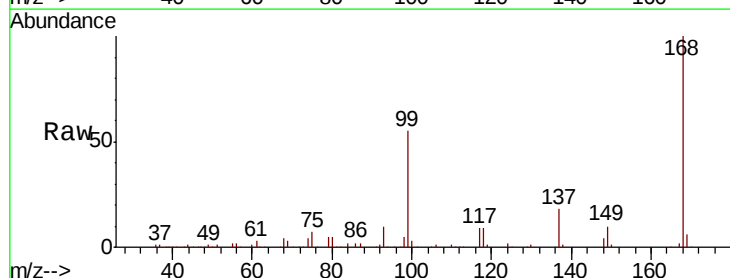
Tgt Ion: 56 Resp: 3596

Ion Ratio Lower Upper

56 100

69 165.9 25.5 38.3#

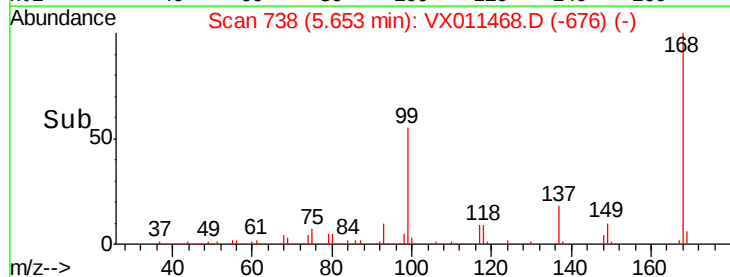
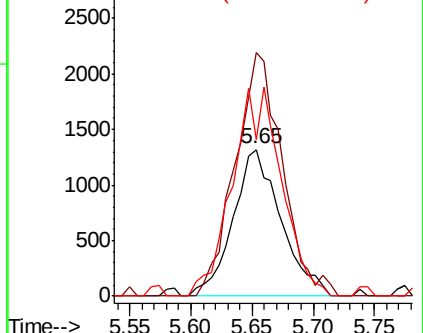
84 106.3 75.0 112.4

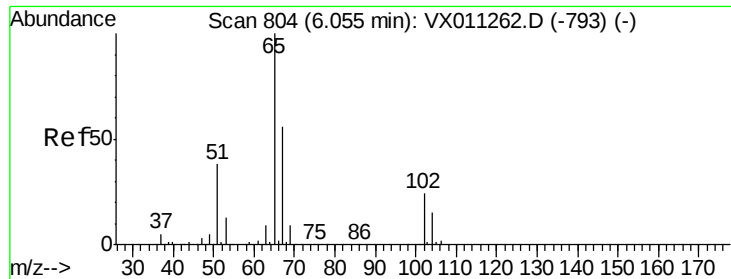


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 54.406 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011468.D

Acq: 12 Aug 2019 06:38

Instrument :

MSVOA_X

ClientSampleId :

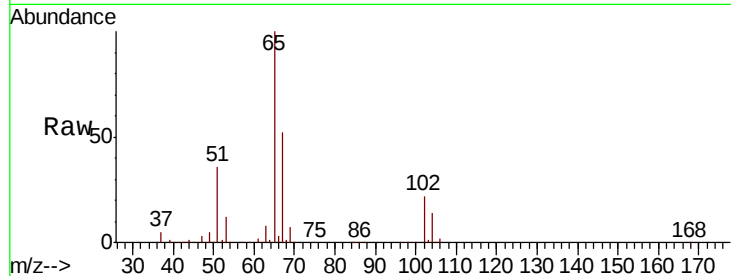
2S-D3-(1)

Tgt Ion: 65 Resp: 105711

Ion Ratio Lower Upper

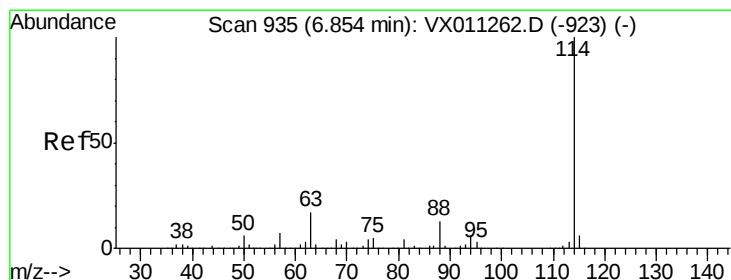
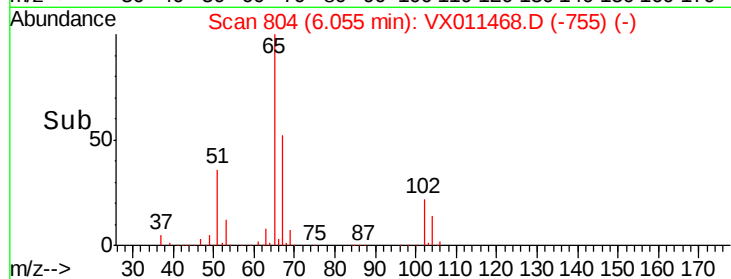
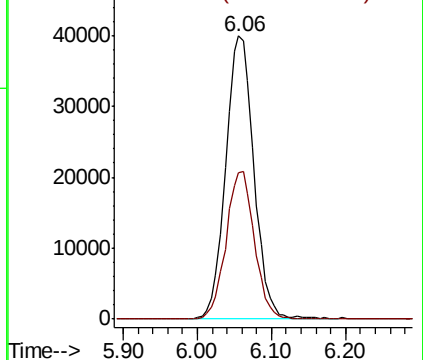
65 100

67 52.6 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011468.D

Acq: 12 Aug 2019 06:38

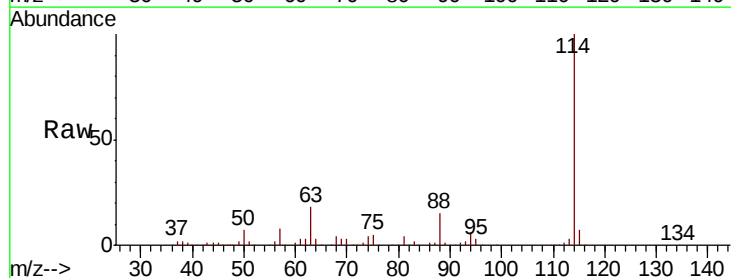
Tgt Ion: 114 Resp: 290435

Ion Ratio Lower Upper

114 100

63 17.8 0.0 34.0

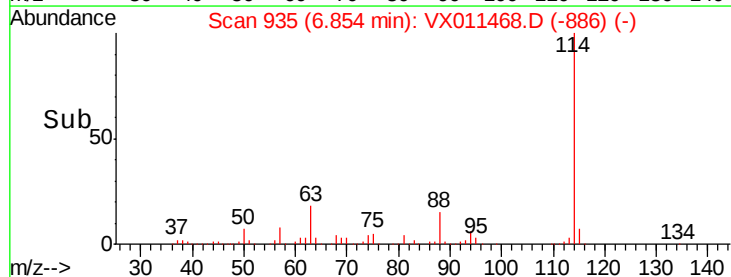
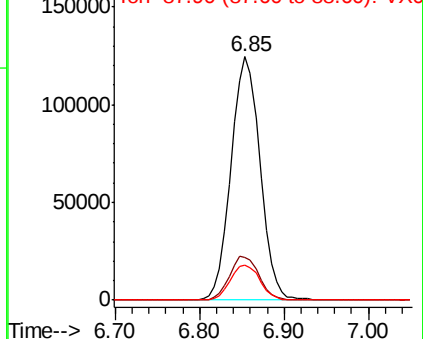
88 14.5 0.0 26.4

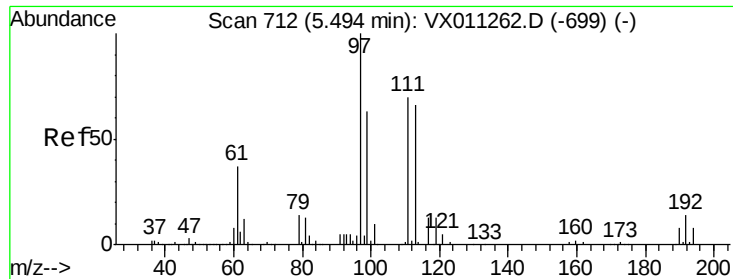


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 46.702 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011468.D

Acq: 12 Aug 2019 06:38

Instrument :

MSVOA_X

ClientSampleId :

2S-D3-(1)

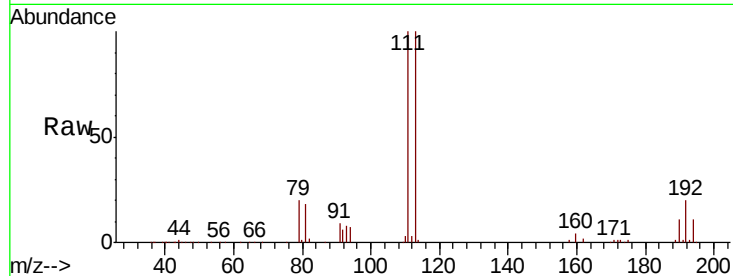
Tgt Ion:113 Resp: 88555

Ion Ratio Lower Upper

113 100

111 102.1 81.9 122.9

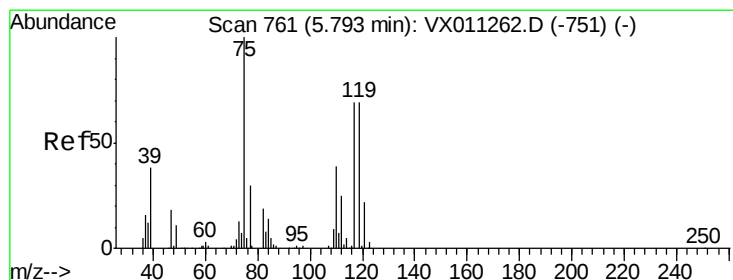
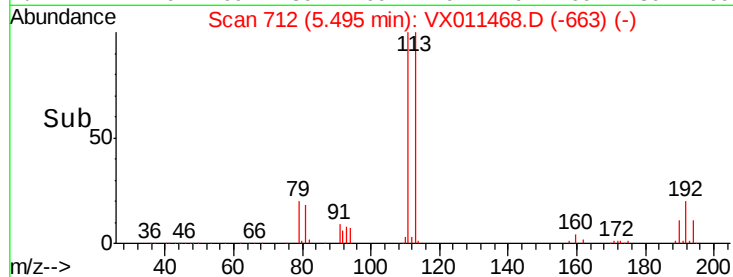
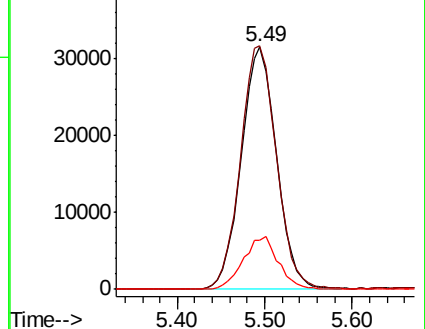
192 21.5 17.8 26.8



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: 5.242 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011468.D

Acq: 12 Aug 2019 06:38

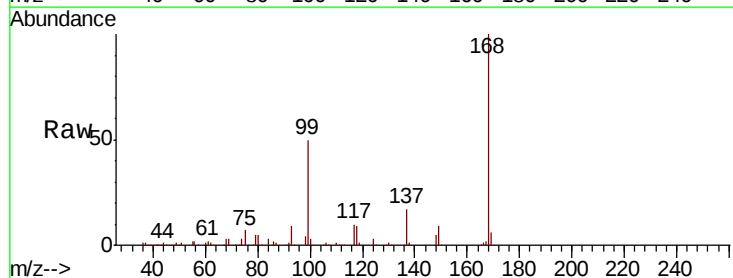
Tgt Ion: 75 Resp: 13293

Ion Ratio Lower Upper

75 100

110 11.9 20.0 59.9#

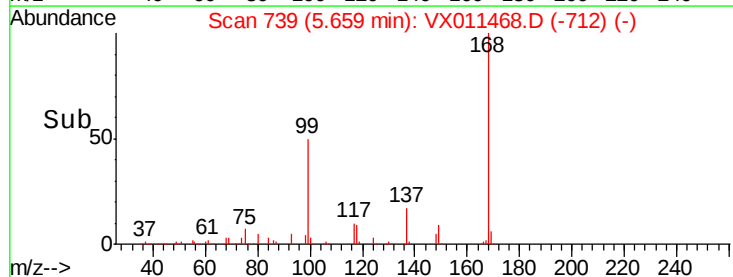
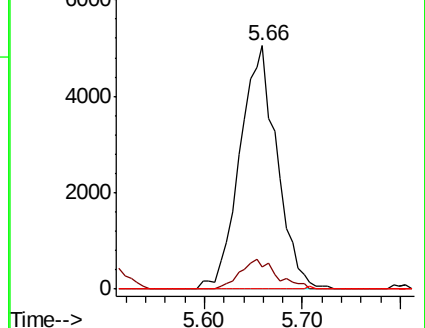
77 0.0 24.8 37.2#

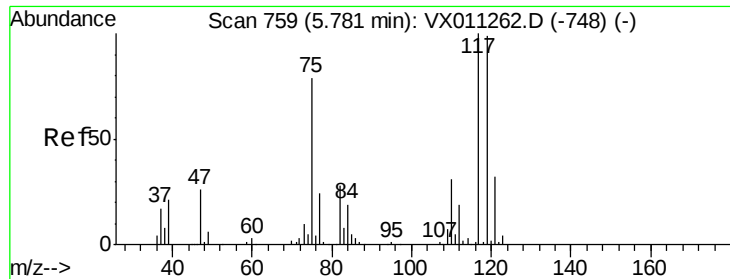


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

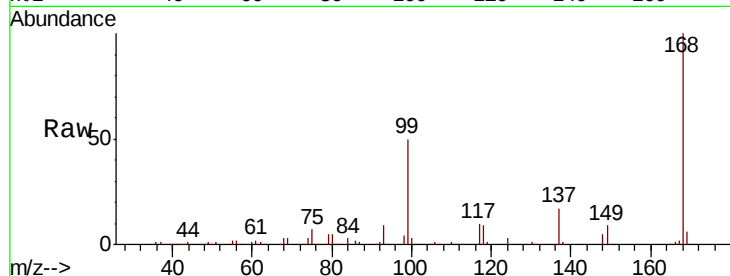




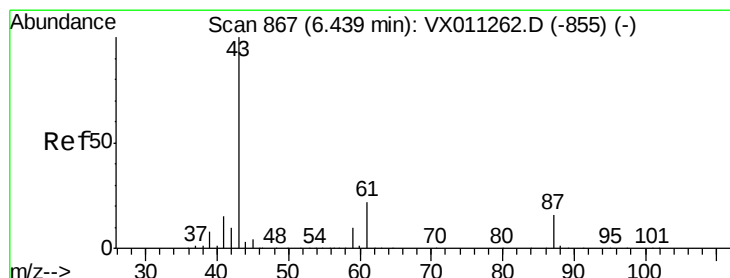
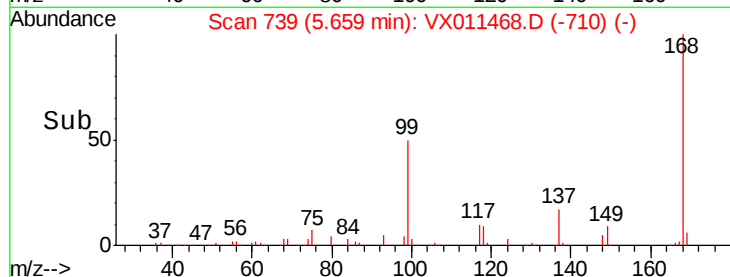
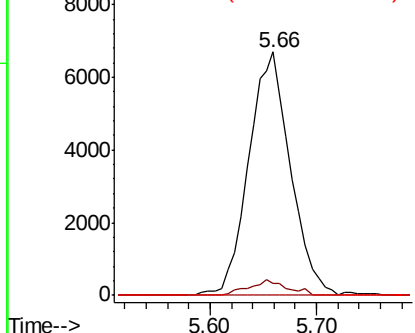
#38
Carbon Tetrachloride
Concen: 7.164 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX011468.D
Acq: 12 Aug 2019 06:38

Instrument :
MSVOA_X
ClientSampleId :
2S-D3-(1)

Tgt Ion:117 Resp: 18277
Ion Ratio Lower Upper
117 100
119 5.1 79.0 118.4#
121 0.0 25.9 38.9#

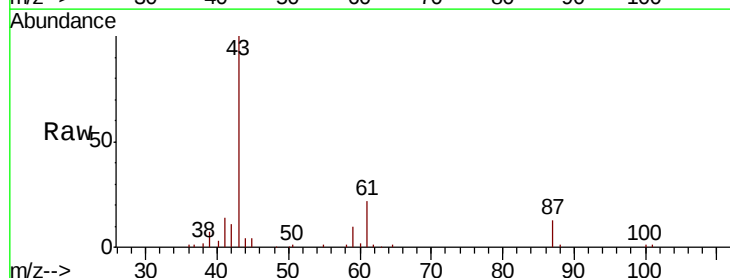


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

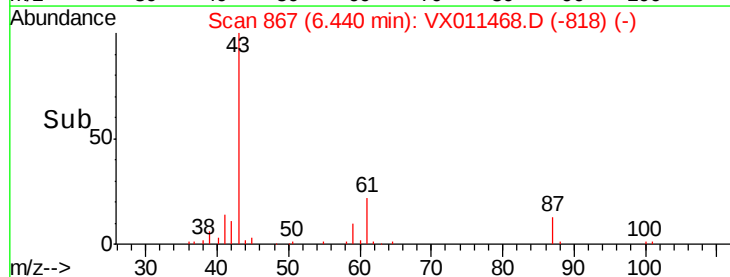
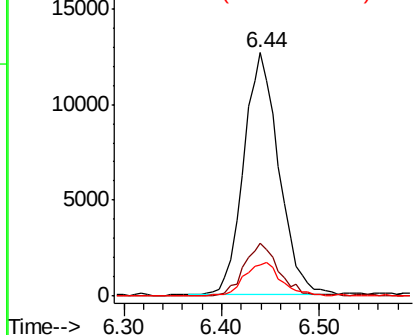


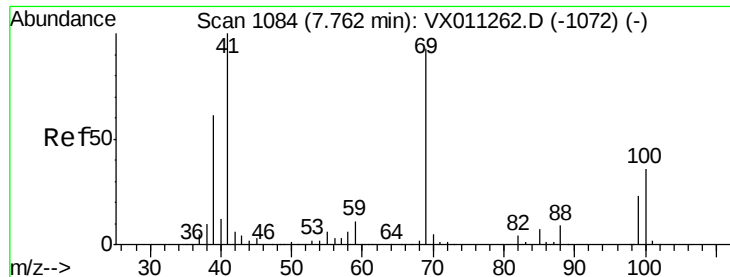
#43
Isopropyl Acetate
Concen: 7.759 ug/l
RT: 6.44 min Scan# 867
Delta R.T. 0.00 min
Lab File: VX011468.D
Acq: 12 Aug 2019 06:38

Tgt Ion: 43 Resp: 31551
Ion Ratio Lower Upper
43 100
61 21.6 16.5 24.7
87 14.7 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

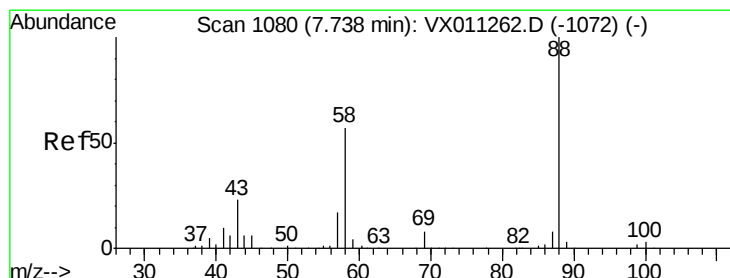
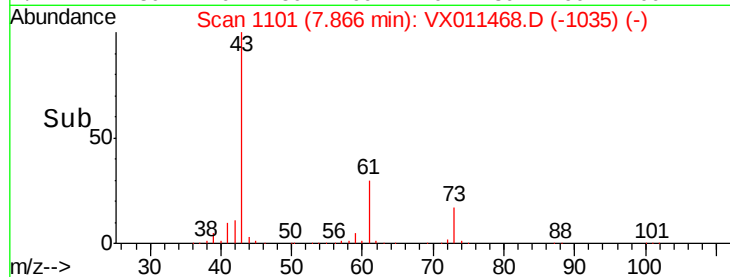
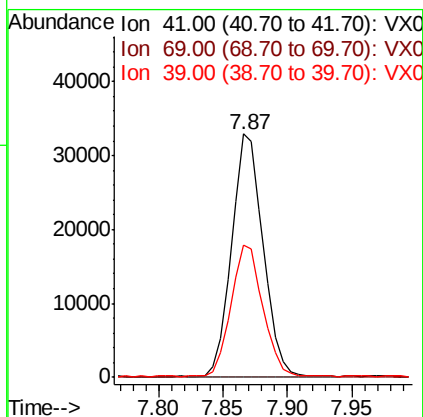
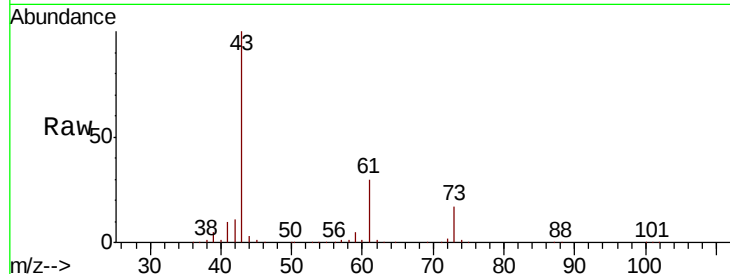




#48
Methyl methacrylate
Concen: 29.205 ug/l
RT: 7.87 min Scan# 1101
Delta R.T. 0.10 min
Lab File: VX011468.D
Acq: 12 Aug 2019 06:38

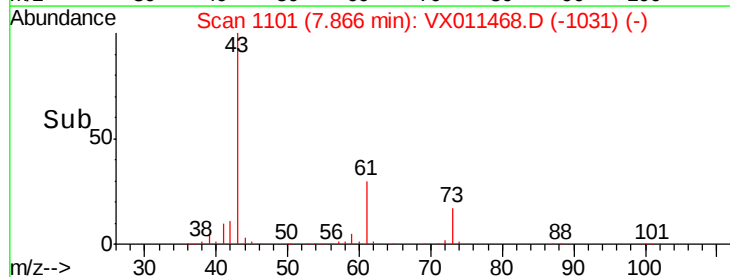
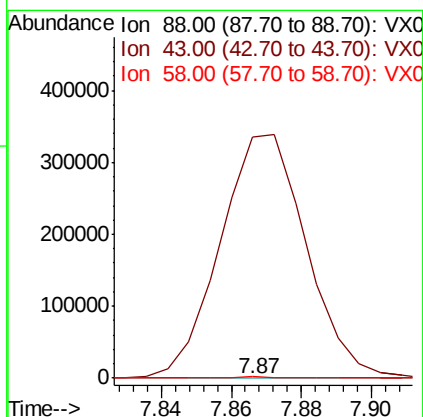
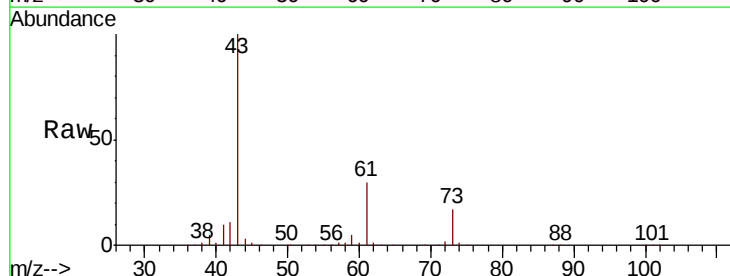
Instrument :
MSVOA_X
ClientSampleId :
2S-D3-(1)

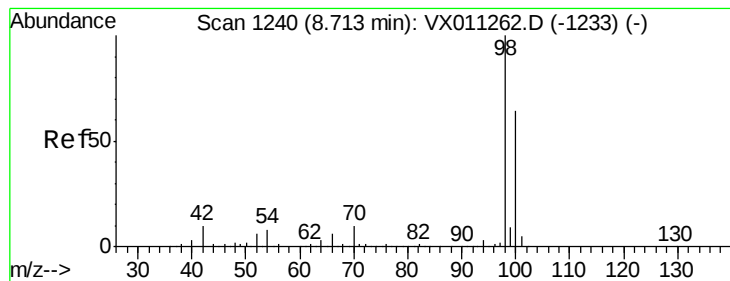
Tgt Ion: 41 Resp: 55893
Ion Ratio Lower Upper
41 100
69 0.3 74.5 111.7#
39 54.6 48.6 72.8



#49
1,4-Dioxane
Concen: 2.469 ug/l
RT: 7.87 min Scan# 1101
Delta R.T. 0.13 min
Lab File: VX011468.D
Acq: 12 Aug 2019 06:38

Tgt Ion: 88 Resp: 137
Ion Ratio Lower Upper
88 100
43 425819.0 22.2 33.2#
58 2208.0 47.8 71.8#





#50

Toluene-d8

Concen: 48.797 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011468.D

Acq: 12 Aug 2019 06:38

Instrument :

MSVOA_X

ClientSampled :

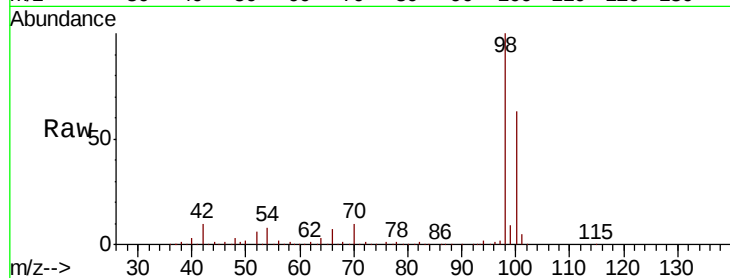
2S-D3-(1)

Tgt Ion: 98 Resp: 349268

Ion Ratio Lower Upper

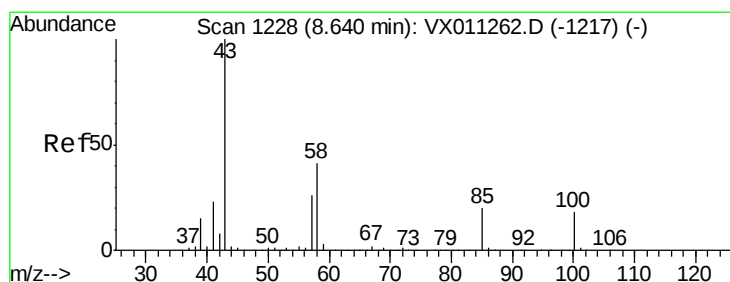
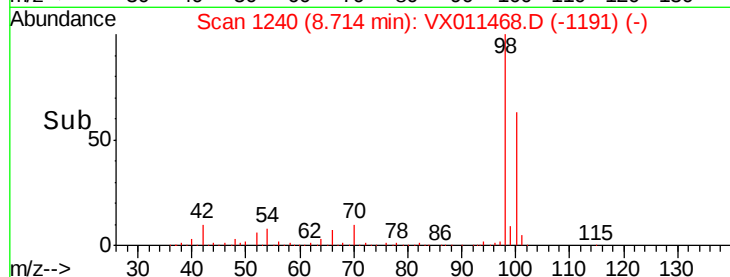
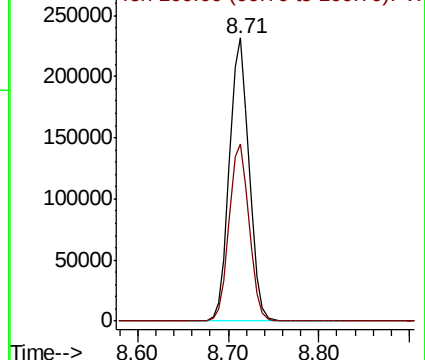
98 100

100 63.6 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 11.960 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011468.D

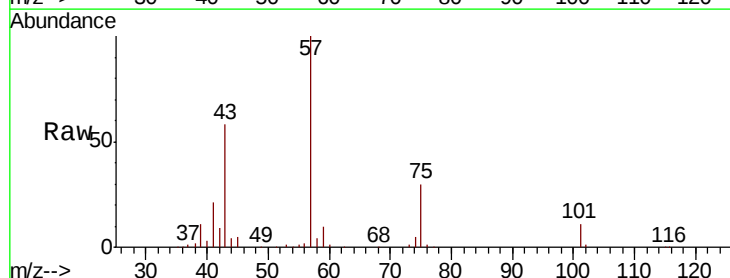
Acq: 12 Aug 2019 06:38

Tgt Ion: 43 Resp: 31388

Ion Ratio Lower Upper

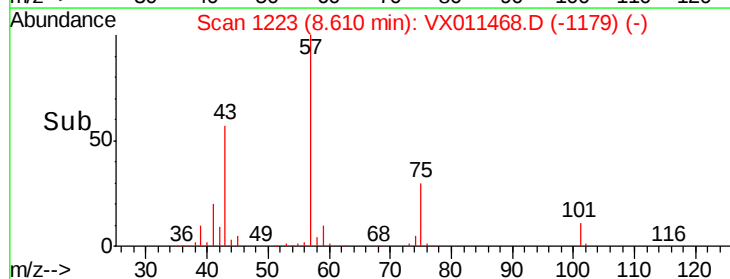
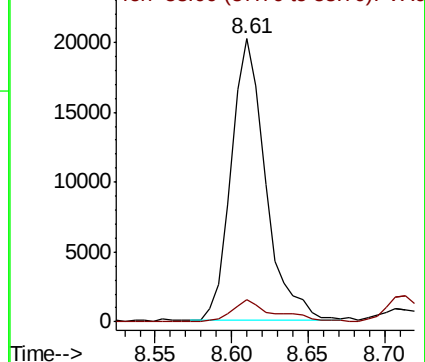
43 100

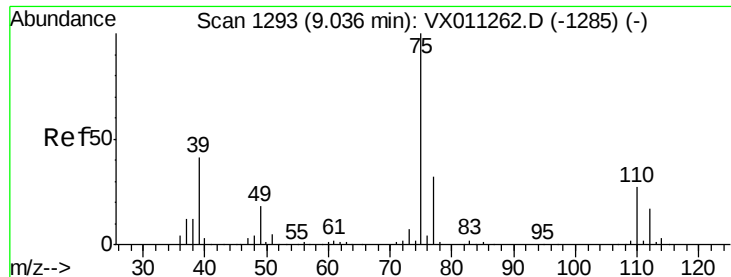
58 9.8 32.3 48.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

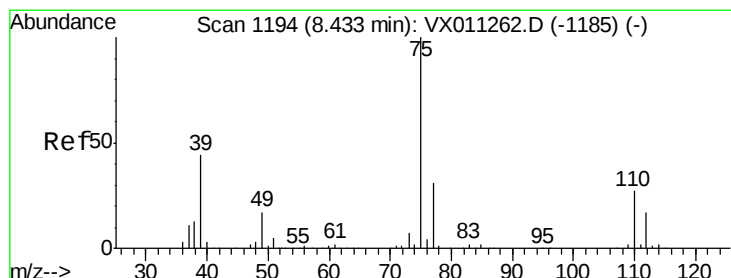
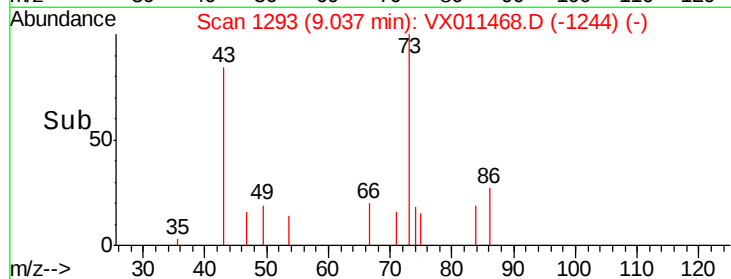
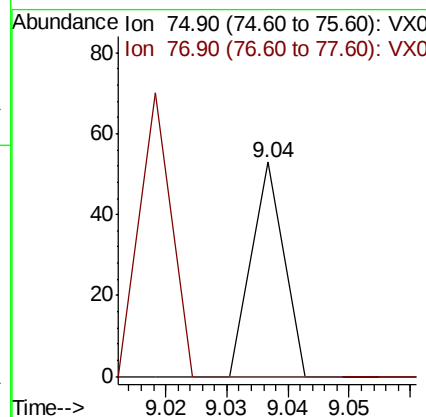
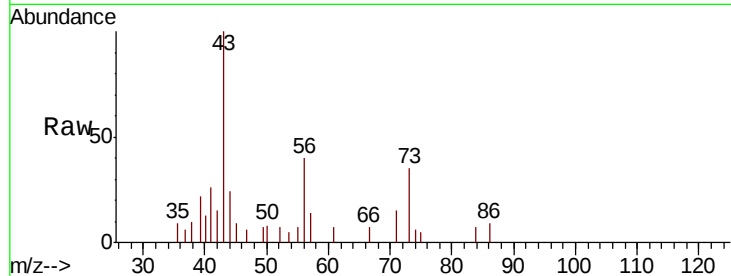




#53
 t-1,3-Dichloropropene
 Concen: 2.845 ug/l
 RT: 9.04 min Scan# 1293
 Delta R.T. 0.00 min
 Lab File: VX011468.D
 Acq: 12 Aug 2019 06:38

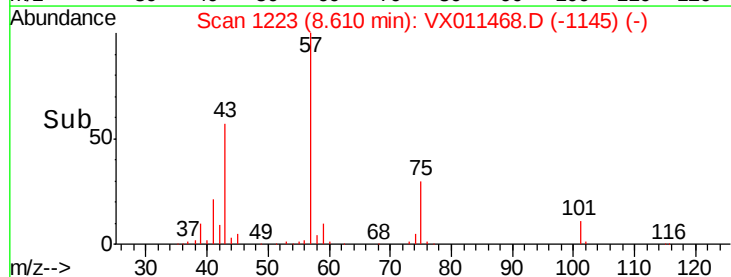
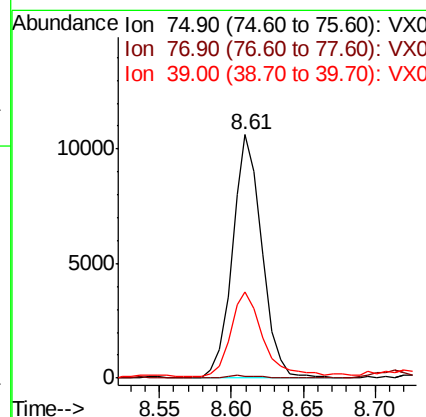
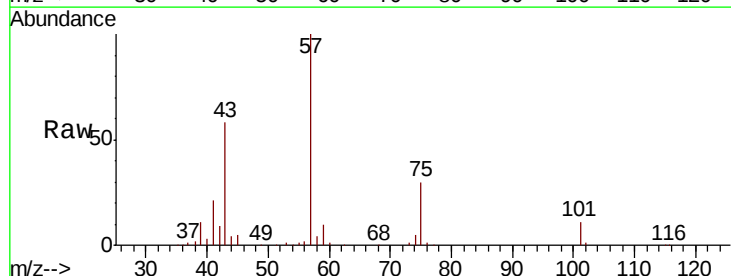
Instrument :
 MSVOA_X
 ClientSampleId :
 2S-D3-(1)

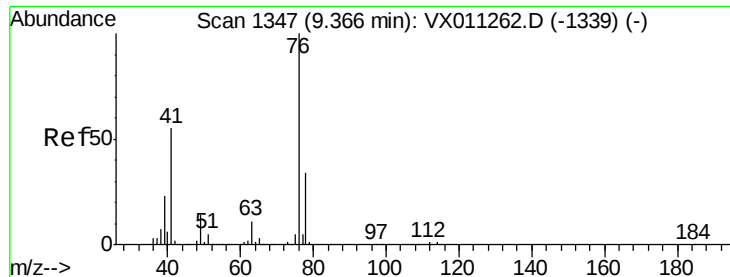
Tgt Ion: 75 Resp: 19
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 5.387 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011468.D
 Acq: 12 Aug 2019 06:38

Tgt Ion: 75 Resp: 15241
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.0 37.6#
 39 34.7 35.3 52.9#





#57

1,3-Dichloropropane

Concen: 0.853 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011468.D

Acq: 12 Aug 2019 06:38

Instrument :

MSVOA_X

ClientSampleId :

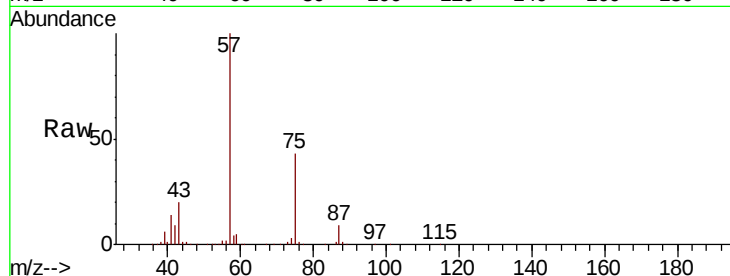
2S-D3-(1)

Tgt Ion: 76 Resp: 2776

Ion Ratio Lower Upper

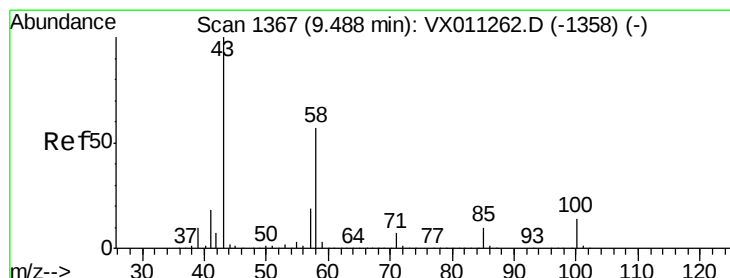
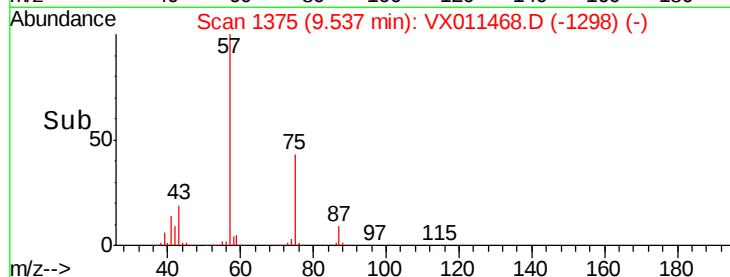
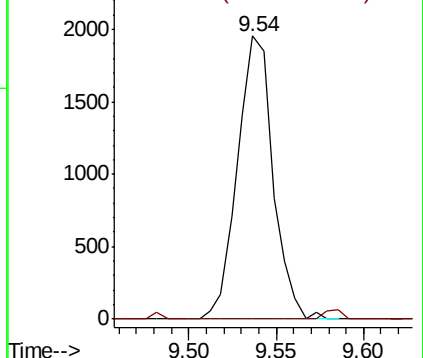
76 100

78 0.0 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: 17.391 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011468.D

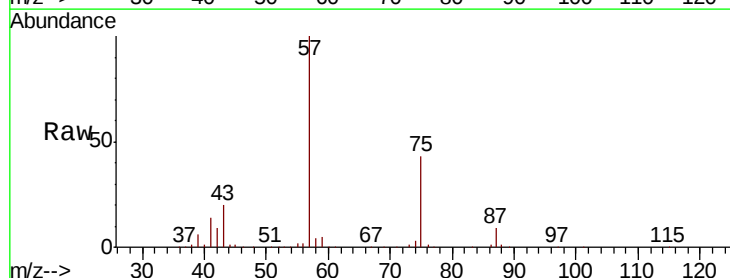
Acq: 12 Aug 2019 06:38

Tgt Ion: 43 Resp: 35352

Ion Ratio Lower Upper

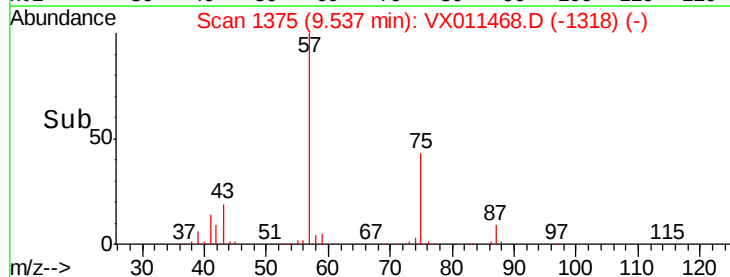
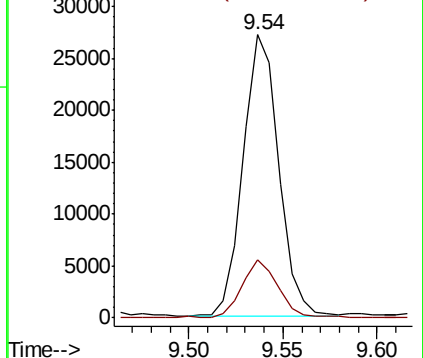
43 100

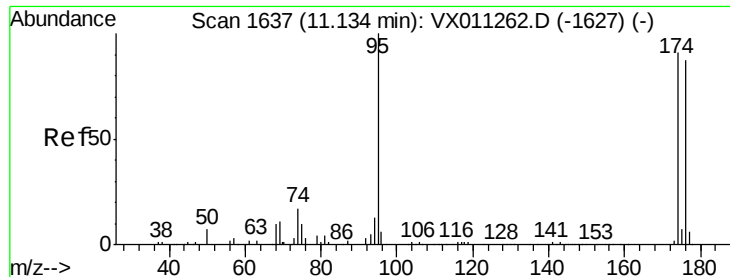
58 21.4 28.2 84.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

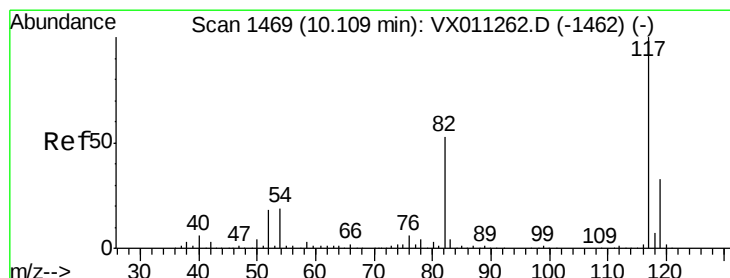
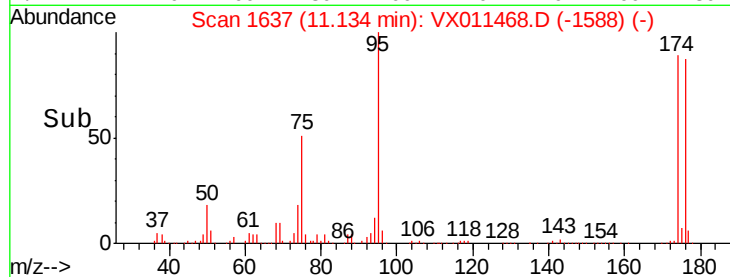
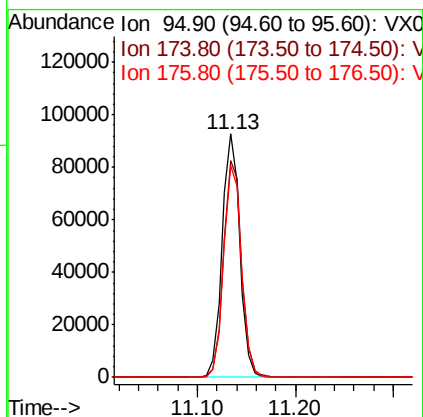
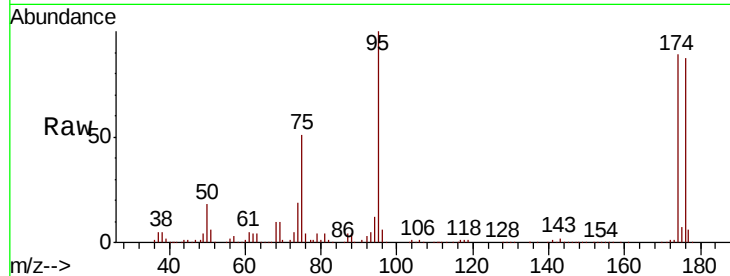




#62
4-Bromofluorobenzene
Concen: 45.389 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011468.D
Acq: 12 Aug 2019 06:38

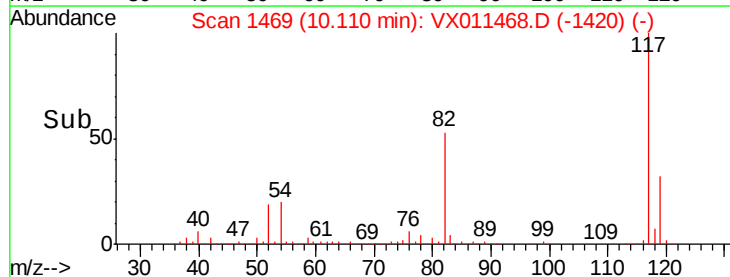
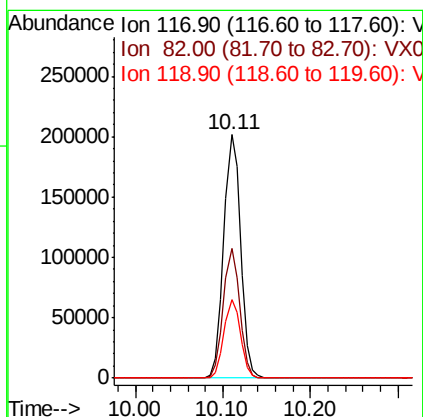
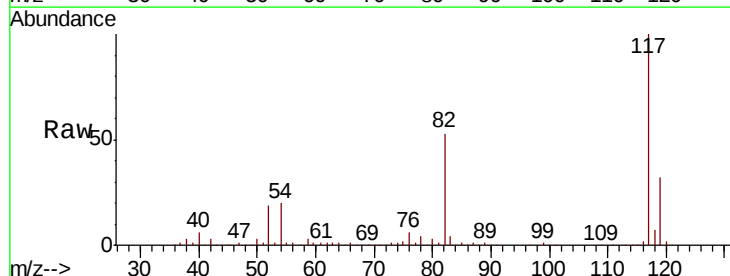
Instrument :
MSVOA_X
ClientSampleId :
2S-D3-(1)

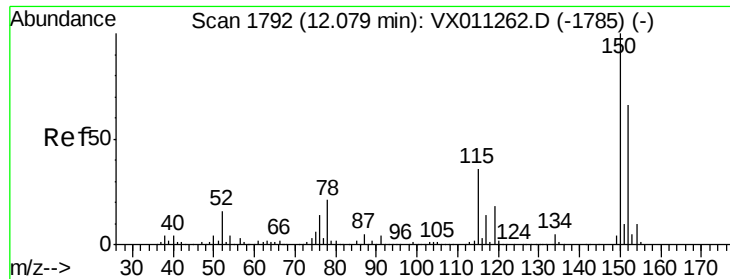
Tgt Ion: 95 Resp: 115989
Ion Ratio Lower Upper
95 100
174 90.4 0.0 191.2
176 88.0 0.0 184.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011468.D
Acq: 12 Aug 2019 06:38

Tgt Ion: 117 Resp: 268326
Ion Ratio Lower Upper
117 100
82 53.5 42.2 63.2
119 32.4 26.6 39.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX011468.D

Acq: 12 Aug 2019 06:38

Instrument :

MSVOA_X

ClientSampleId :

2S-D3-(1)

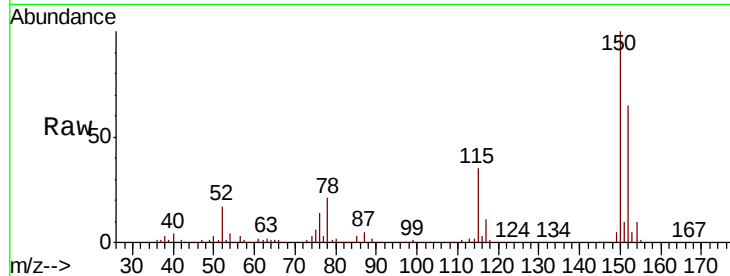
Tgt Ion:152 Resp: 120601

Ion Ratio Lower Upper

152 100

115 55.6 40.0 119.9

150 157.8 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

200000

150000

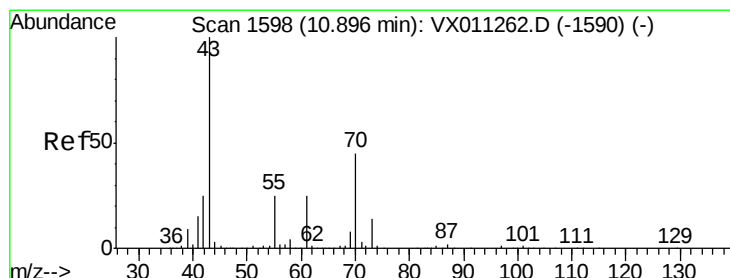
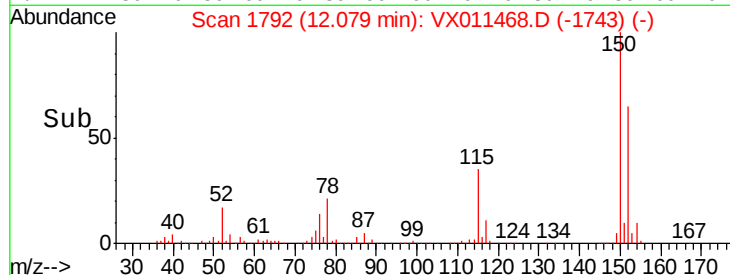
100000

50000

0

12.08

Time-->



#74

N-ethyl acetate

Concen: 0.512 ug/l

RT: 10.83 min Scan# 1587

Delta R.T. -0.07 min

Lab File: VX011468.D

Acq: 12 Aug 2019 06:38

Tgt Ion: 43 Resp: 1527

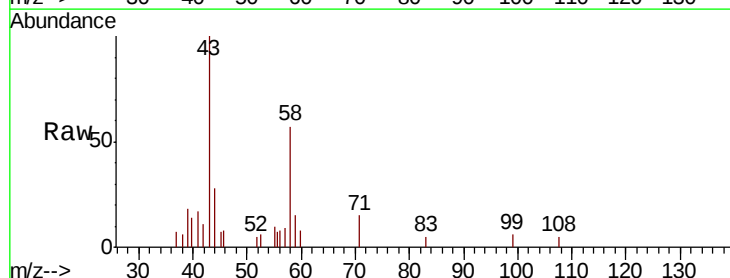
Ion Ratio Lower Upper

43 100

70 0.0 35.9 53.9#

55 24.8 19.8 29.6

61 0.0 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

1500

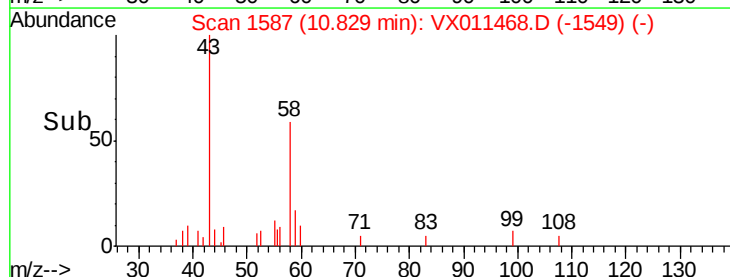
1000

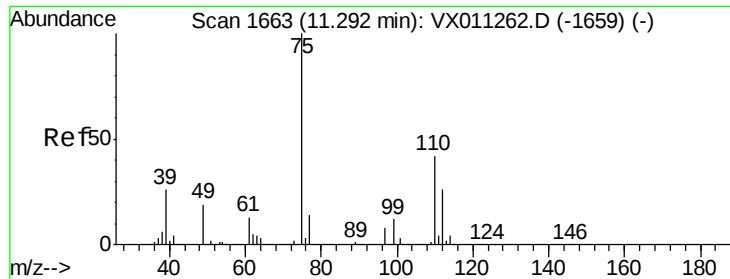
500

0

10.83

Time-->

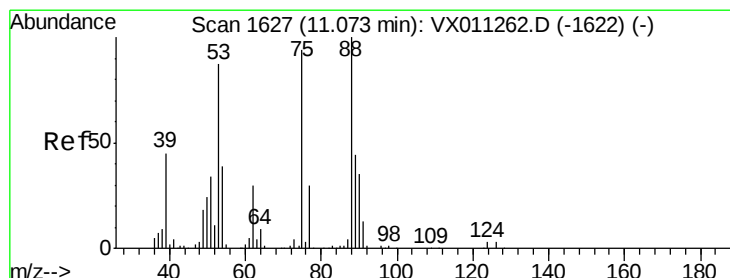
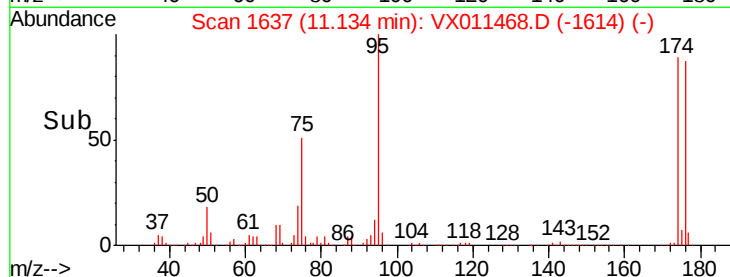
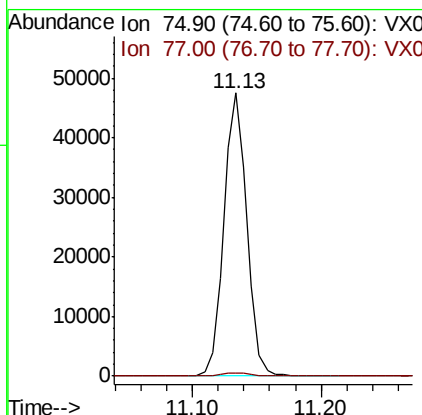
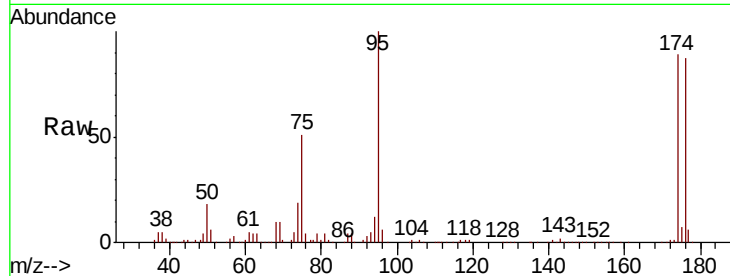




#76
 1,2,3-Trichloropropane
 Concen: 27.066 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011468.D
 Acq: 12 Aug 2019 06:38

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-D3-(1)

Tgt Ion: 75 Resp: 59445
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.1 63.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.257 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011468.D
 Acq: 12 Aug 2019 06:38

Tgt Ion: 75 Resp: 59445
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.2 117.4#
 89 0.2 37.9 56.9#

