

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070919\
 Data File : VX010750.D
 Acq On : 09 Jul 2019 15:01
 Operator : JC/SP
 Sample : K3691-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0535-190704

Quant Time: Jul 10 02:11:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	220014	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	343132	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	315076	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	147362	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	110302	53.47	ug/l	0.00
Spiked Amount			Recovery	=	106.94%	
35) Dibromofluoromethane	5.50	113	106367	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	
50) Toluene-d8	8.71	98	410217	51.07	ug/l	0.00
Spiked Amount			Recovery	=	102.14%	
62) 4-Bromofluorobenzene	11.13	95	137913	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	

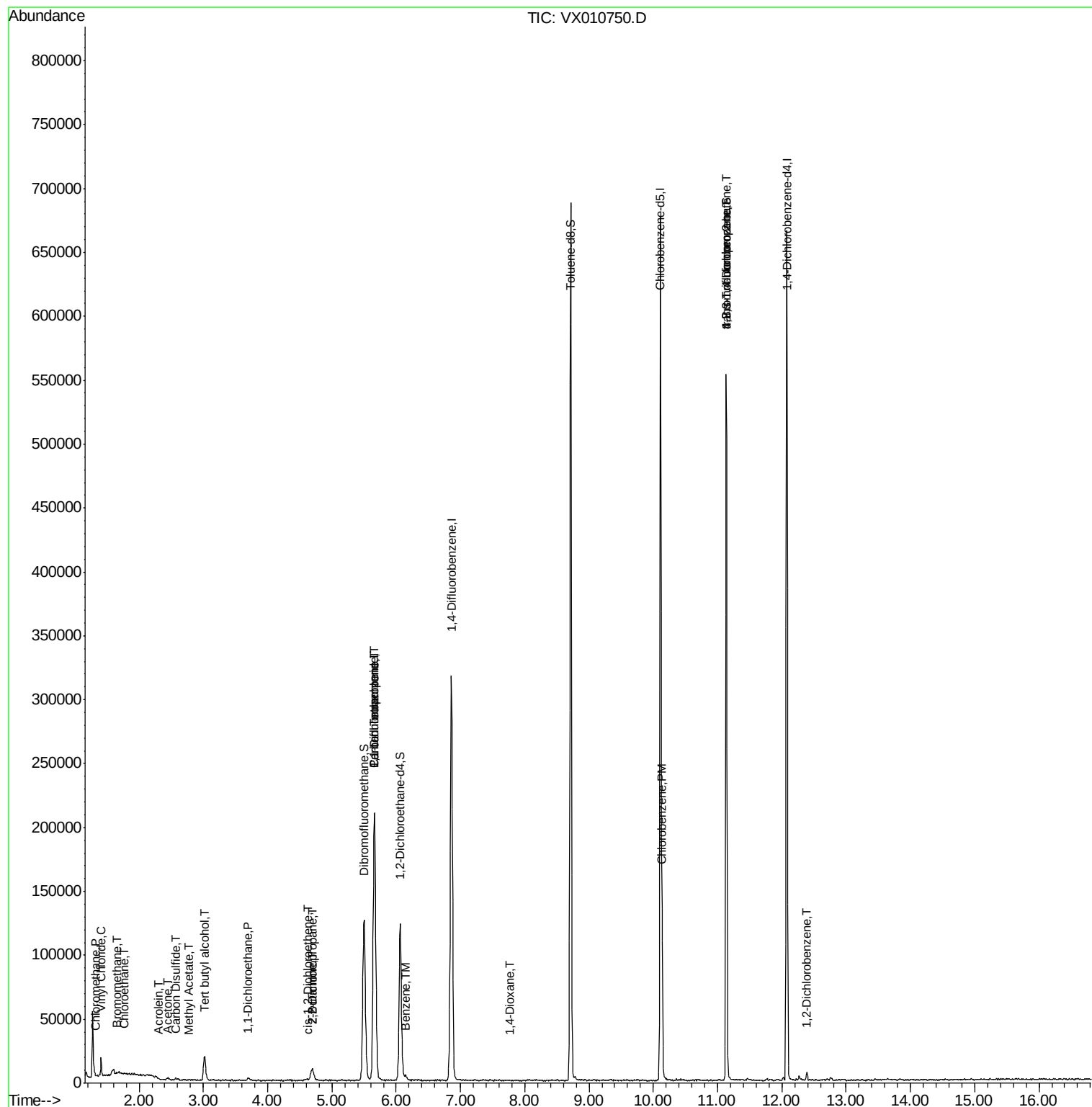
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	439	0.246	ug/l #	56
4) Vinyl Chloride	1.41	62	9182	4.707	ug/l	100
5) Bromomethane	1.65	94	429	0.451	ug/l #	75
6) Chloroethane	1.76	64	834	0.725	ug/l #	41
11) Tert butyl alcohol	3.02	59	11162	20.679	ug/l #	80
13) Acrolein	2.31	56	142	0.397	ug/l	92
16) Acetone	2.45	43	2066	1.998	ug/l	96
17) Carbon Disulfide	2.57	76	1725	0.337	ug/l #	85
18) Methyl Acetate	2.76	43	453	0.220	ug/l #	76
24) 1,1-Dichloroethane	3.69	63	2262	0.691	ug/l #	95
25) 2-Butanone	4.68	43	1070	0.706	ug/l #	88
26) 2,2-Dichloropropane	4.68	77	838	0.295	ug/l #	49
27) cis-1,2-Dichloroethene	4.62	96	591	0.249	ug/l	77
36) 1,1-Dichloropropene	5.67	75	14462	5.304	ug/l #	47
38) Carbon Tetrachloride	5.66	117	19518	6.610	ug/l #	15
40) Benzene	6.14	78	4001	0.471	ug/l #	89
49) 1,4-Dioxane	7.76	88	20	0.322	ug/l #	28
65) Chlorobenzene	10.14	112	49761	7.779	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	67436	25.113	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	67436	58.586	ug/l #	16
91) 1,2-Dichlorobenzene	12.39	146	1508	0.312	ug/l	98

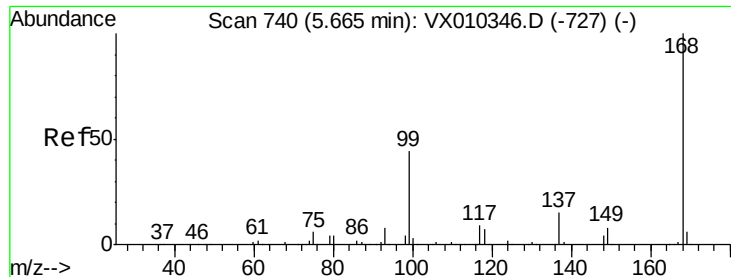
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010750.D

Acq: 09 Jul 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

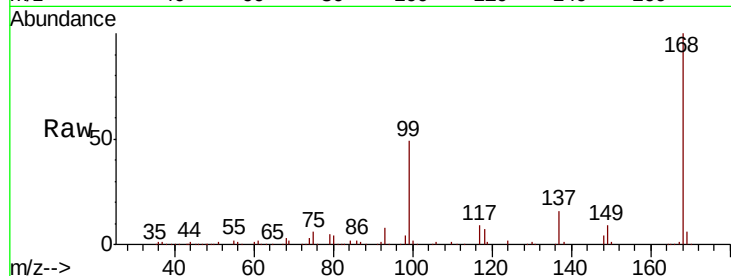
DUP-0535-190704

Tot Ion:168 Resp: 220014

Ion Ratio Lower Upper

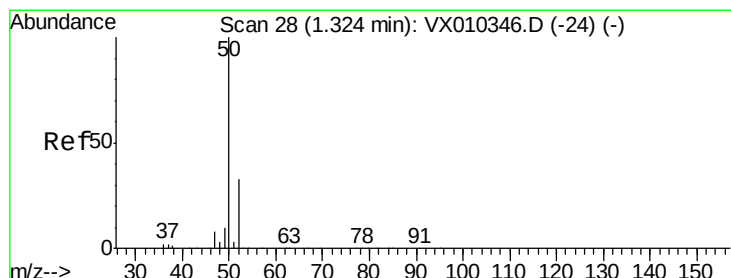
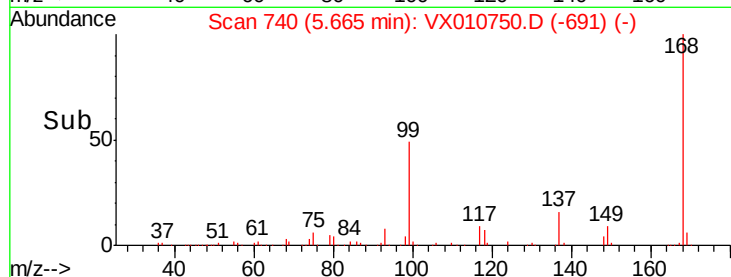
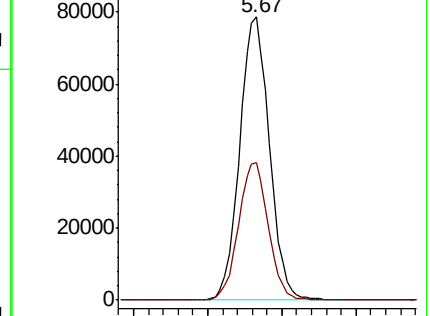
168 100

99 48.6 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.246 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010750.D

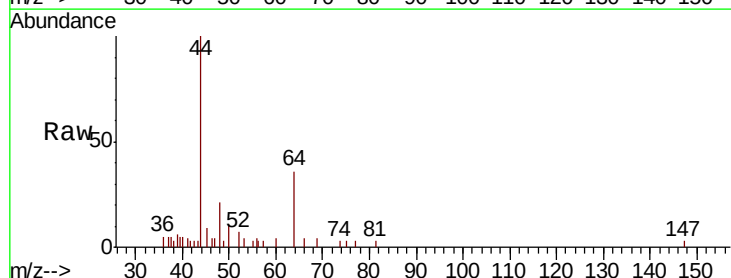
Acq: 09 Jul 2019 15:01

Tgt Ion: 50 Resp: 439

Ion Ratio Lower Upper

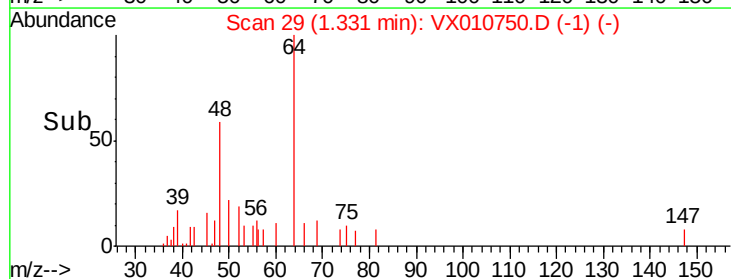
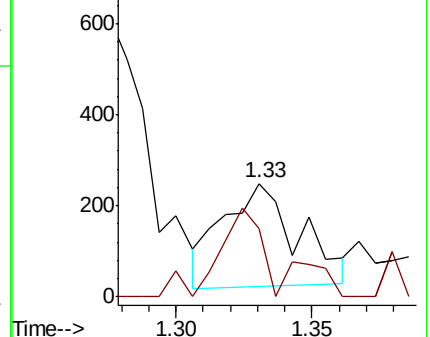
50 100

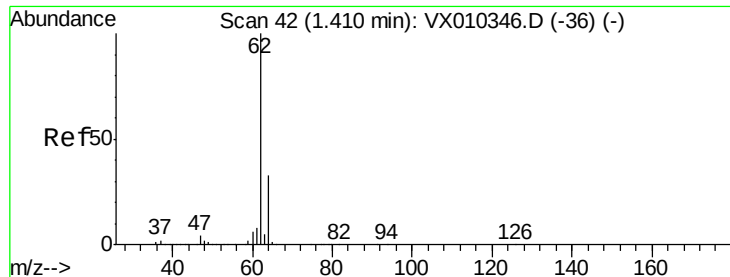
52 57.9 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 4.707 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010750.D

Acq: 09 Jul 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

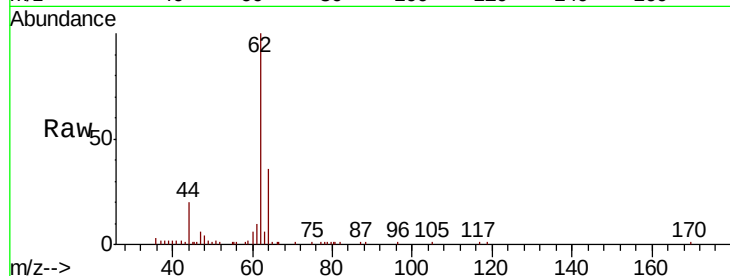
DUP-0535-190704

Tot Ion: 62 Resp: 9182

Ion Ratio Lower Upper

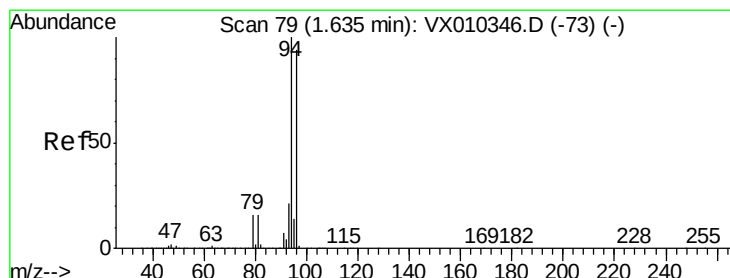
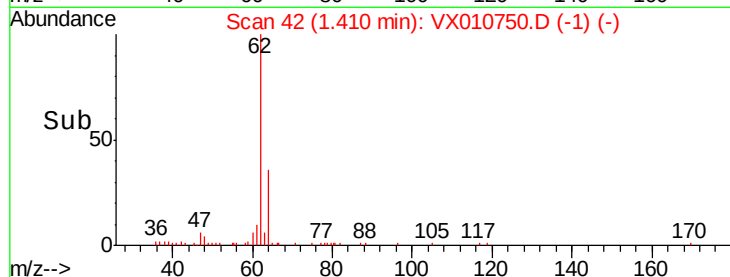
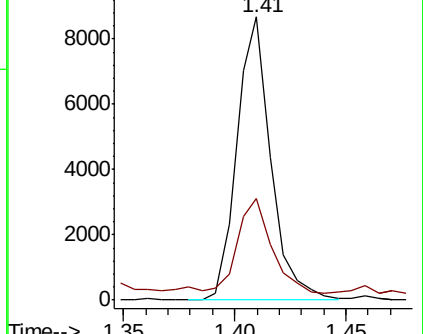
62 100

64 32.8 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.451 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010750.D

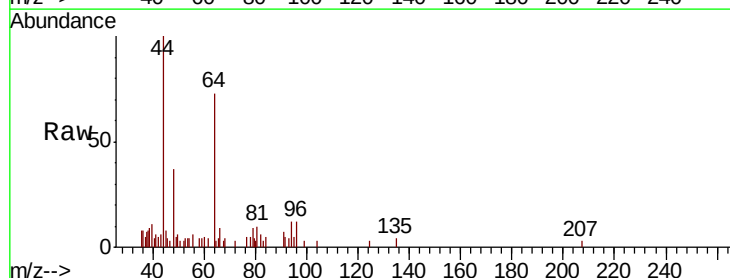
Acq: 09 Jul 2019 15:01

Tgt Ion: 94 Resp: 429

Ion Ratio Lower Upper

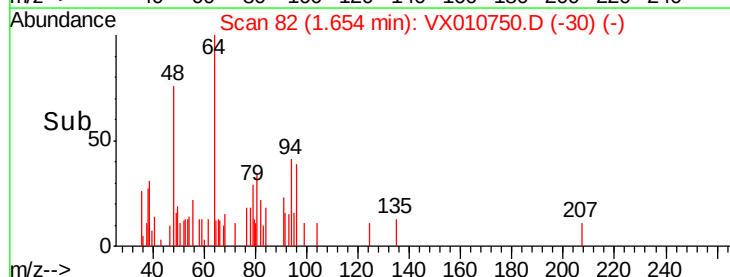
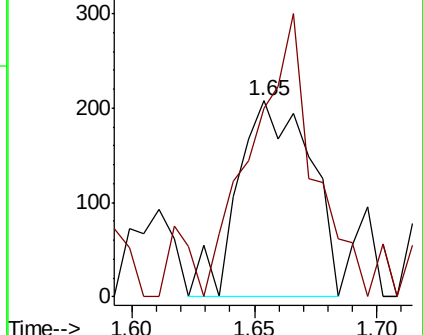
94 100

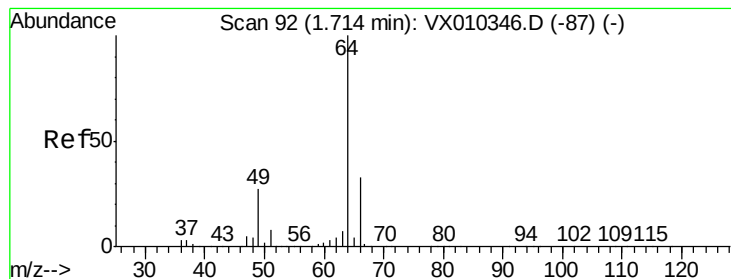
96 70.7 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.725 ug/l

RT: 1.76 min Scan# 100

Delta R.T. 0.05 min

Lab File: VX010750.D

Acq: 09 Jul 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

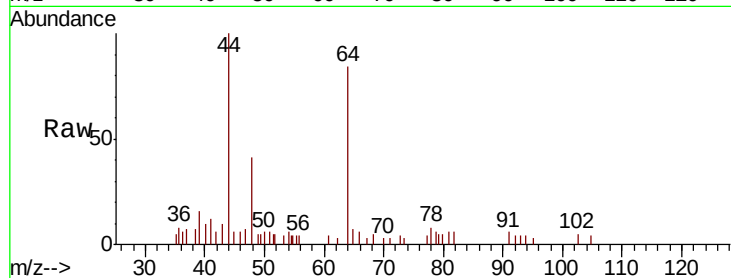
DUP-0535-190704

Tot Ion: 64 Resp: 834

Ion Ratio Lower Upper

64 100

66 0.0 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.76

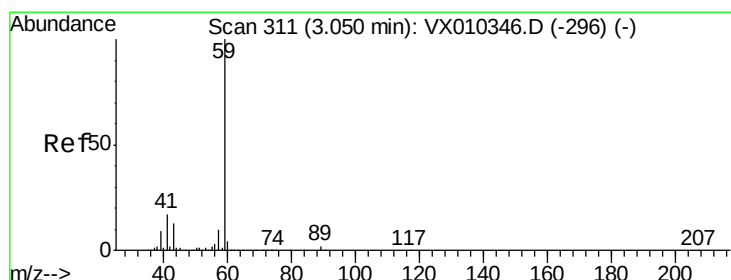
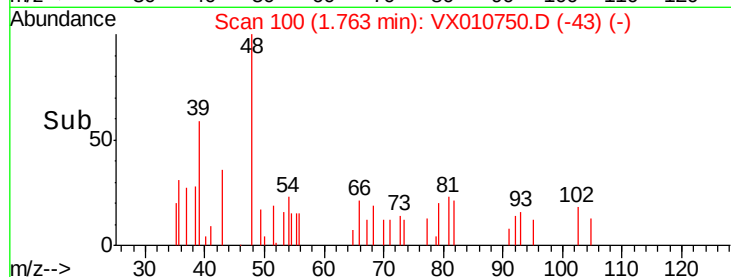
1500

1000

500

0

Time-->



#11

Tert butyl alcohol

Concen: 20.679 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.03 min

Lab File: VX010750.D

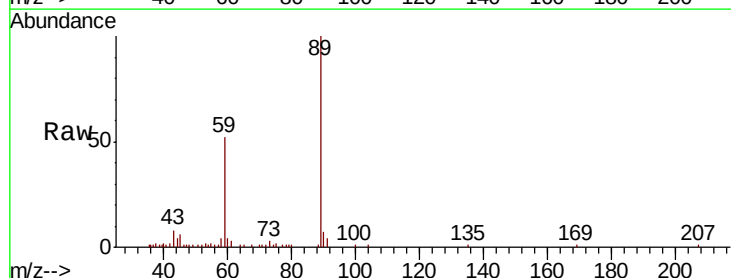
Acq: 09 Jul 2019 15:01

Tgt Ion: 59 Resp: 11162

Ion Ratio Lower Upper

59 100

57 2.1 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.02

5000

4000

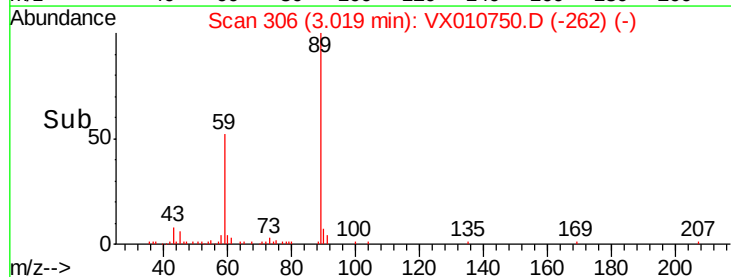
3000

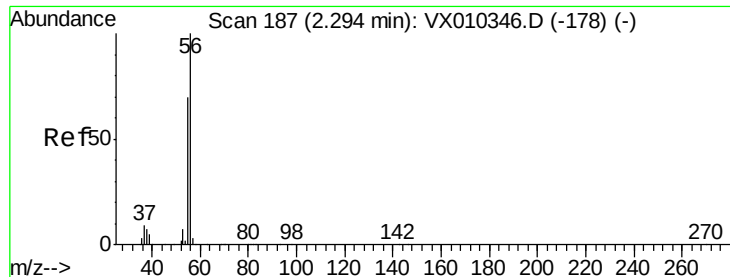
2000

1000

0

Time-->





#13

Acrolein

Concen: 0.397 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX010750.D

Acq: 09 Jul 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

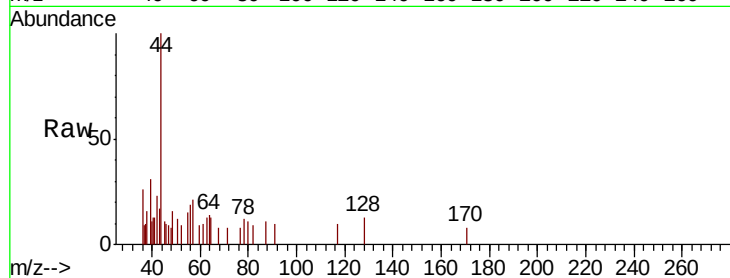
DUP-0535-190704

Tot Ion: 56 Resp: 142

Ion Ratio Lower Upper

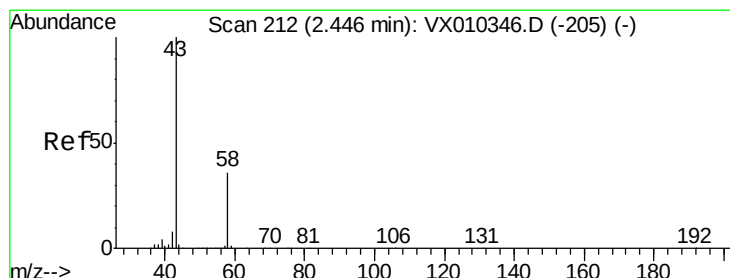
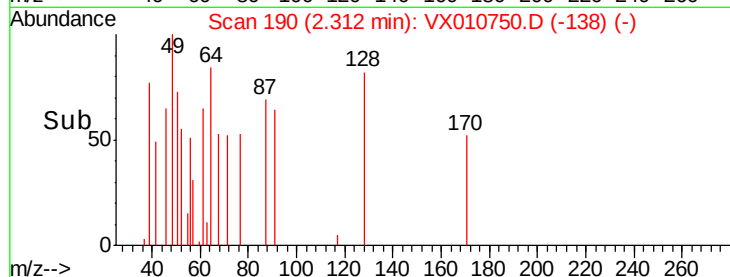
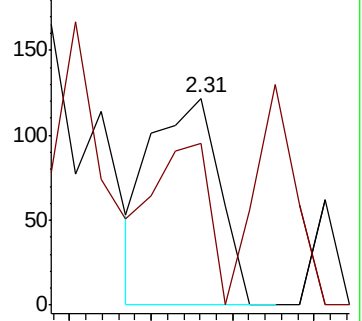
56 100

55 64.1 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 1.998 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010750.D

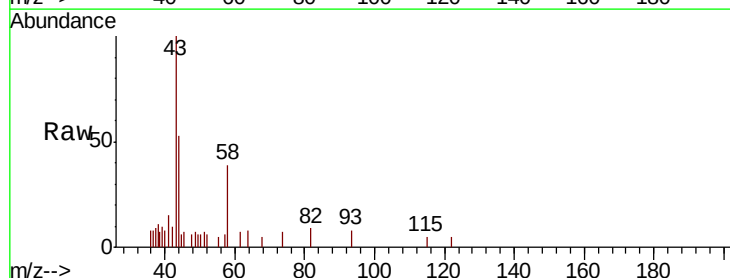
Acq: 09 Jul 2019 15:01

Tgt Ion: 43 Resp: 2066

Ion Ratio Lower Upper

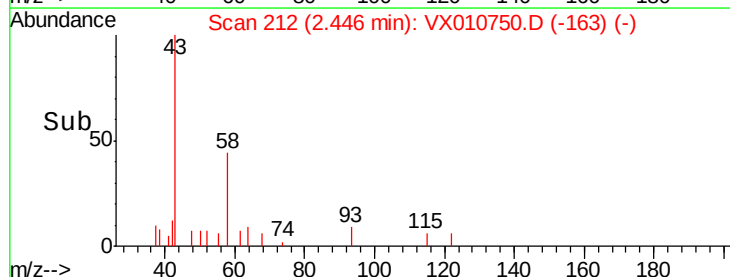
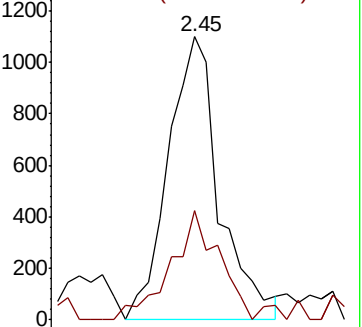
43 100

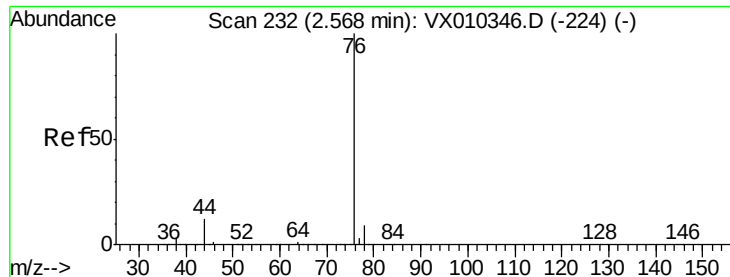
58 33.5 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.337 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX010750.D

Acq: 09 Jul 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

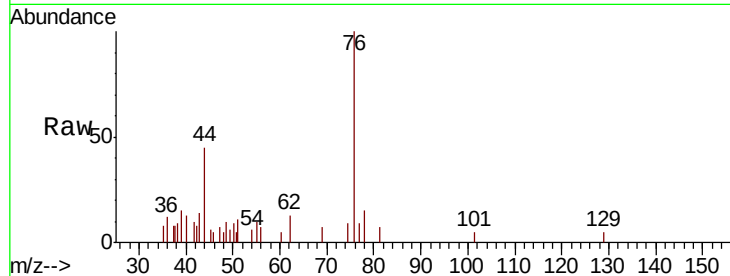
DUP-0535-190704

Tot Ion: 76 Resp: 1725

Ion Ratio Lower Upper

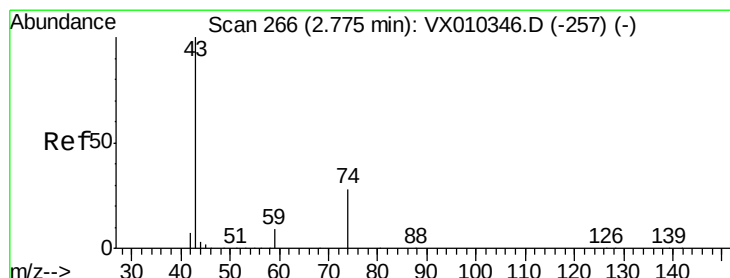
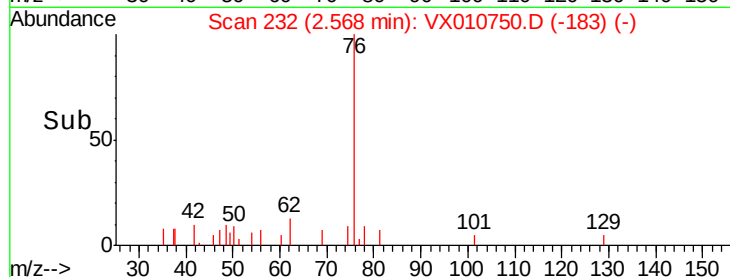
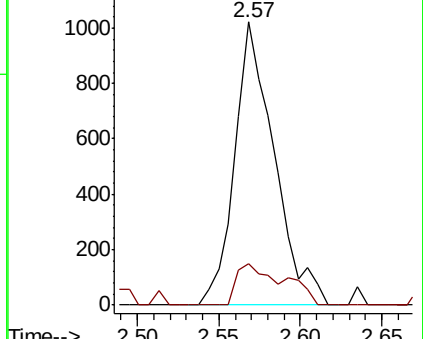
76 100

78 14.7 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.220 ug/l

RT: 2.76 min Scan# 264

Delta R.T. -0.01 min

Lab File: VX010750.D

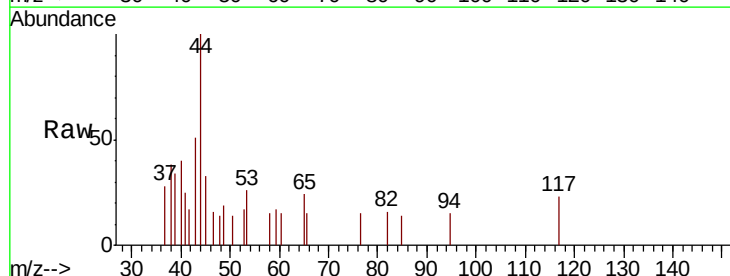
Acq: 09 Jul 2019 15:01

Tgt Ion: 43 Resp: 453

Ion Ratio Lower Upper

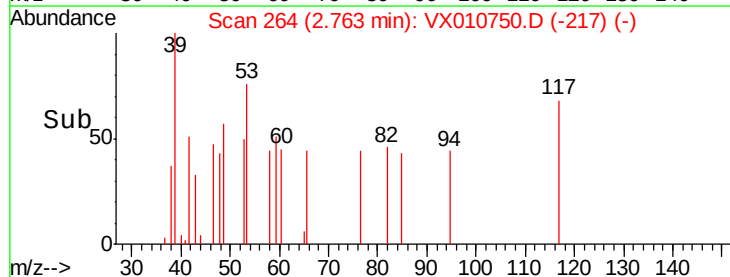
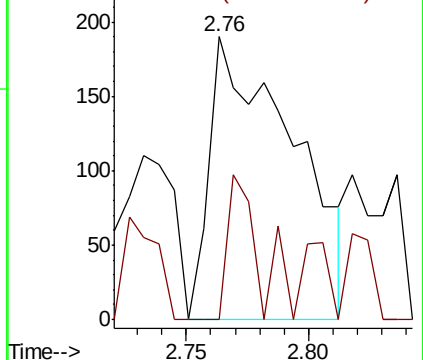
43 100

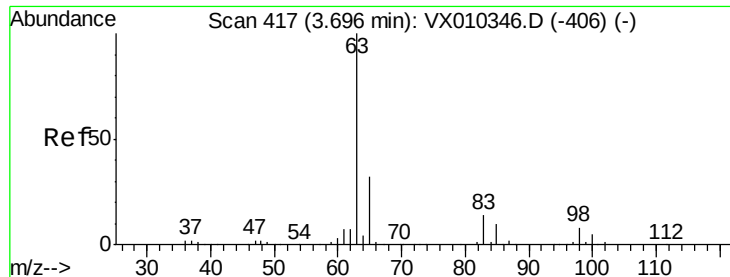
74 14.1 21.3 31.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#24

1,1-Dichloroethane

Concen: 0.691 ug/l

RT: 3.69 min Scan# 416

Delta R.T. -0.01 min

Lab File: VX010750.D

Acq: 09 Jul 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

DUP-0535-190704

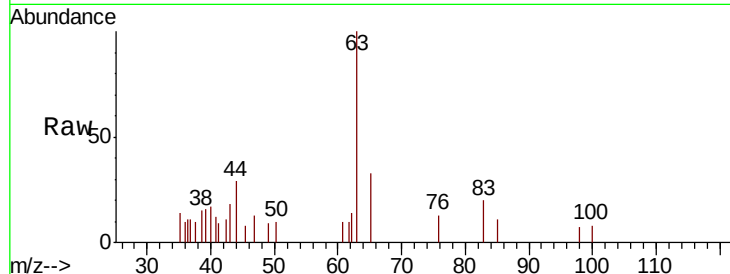
Tot Ion: 63 Resp: 2262

Ion Ratio Lower Upper

63 100

98 6.8 3.9 11.7

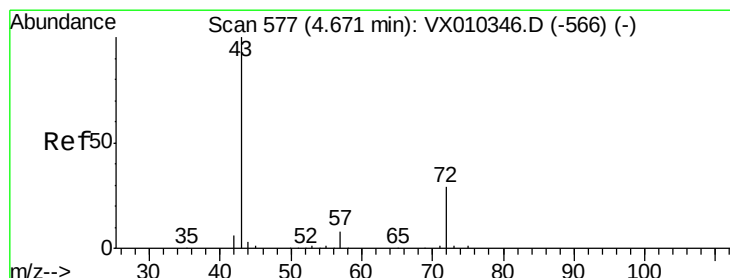
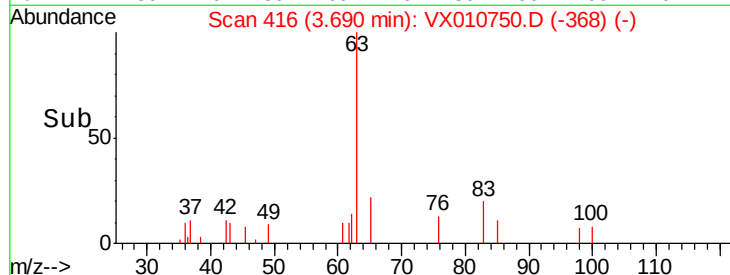
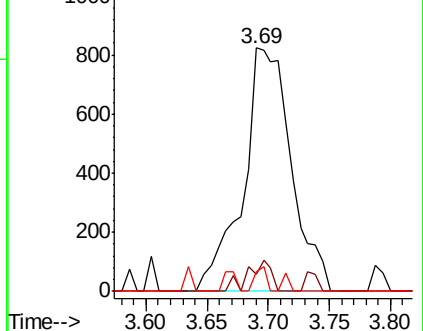
100 7.9 2.4 7.1#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.706 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX010750.D

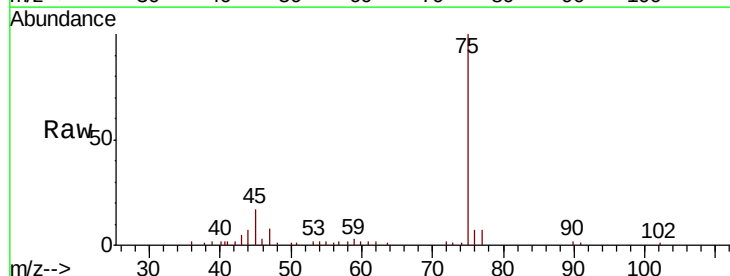
Acq: 09 Jul 2019 15:01

Tgt Ion: 43 Resp: 1070

Ion Ratio Lower Upper

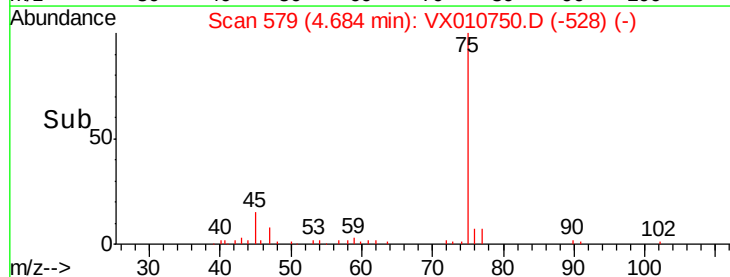
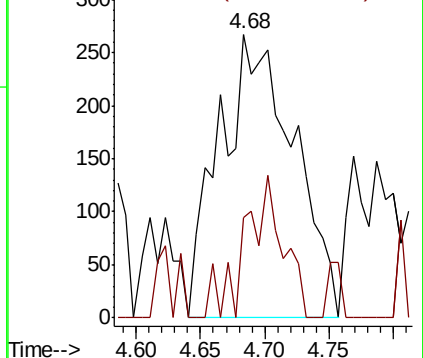
43 100

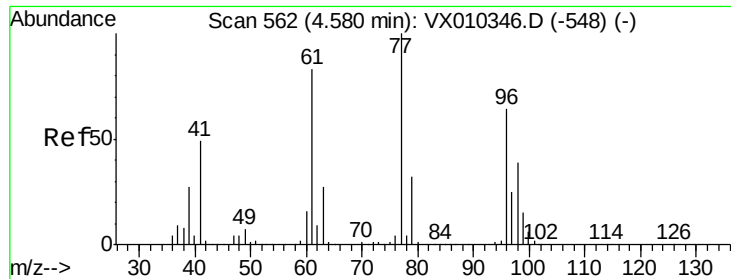
72 35.6 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

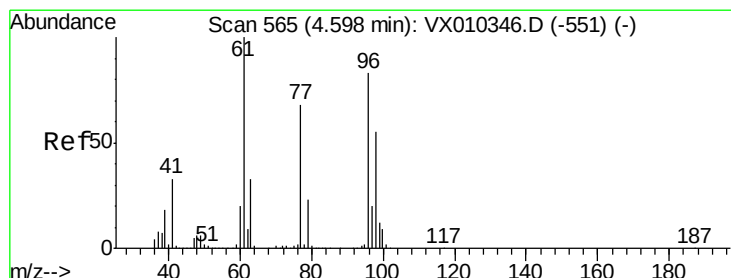
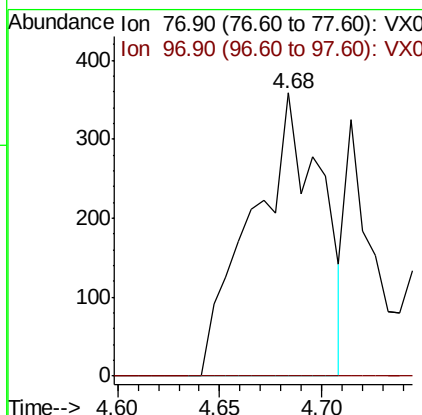
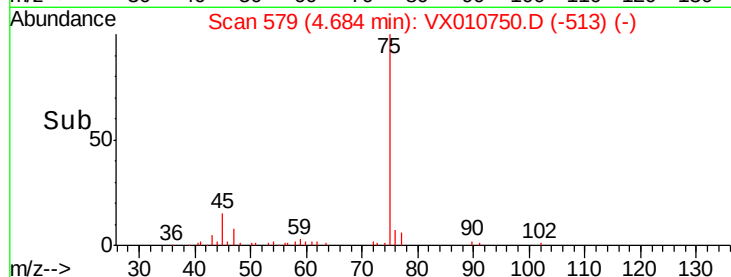
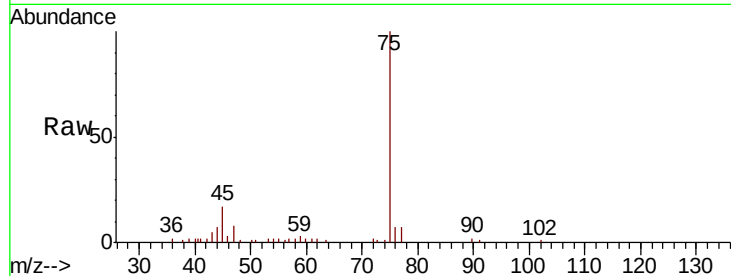




#26
 2,2-Dichloropropane
 Concen: 0.295 ug/l
 RT: 4.68 min Scan# 579
 Delta R.T. 0.10 min
 Lab File: VX010750.D
 Acq: 09 Jul 2019 15:01

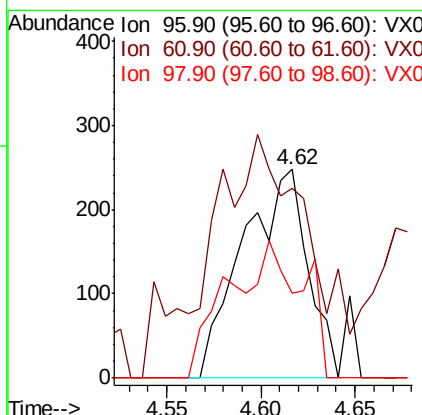
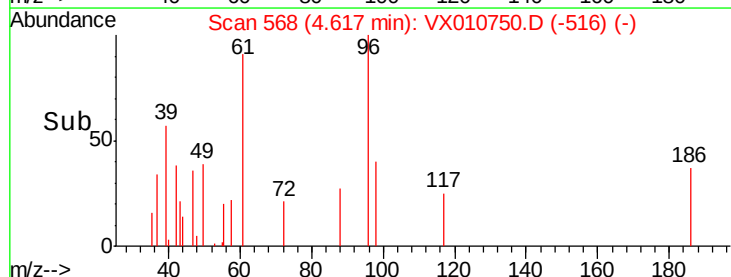
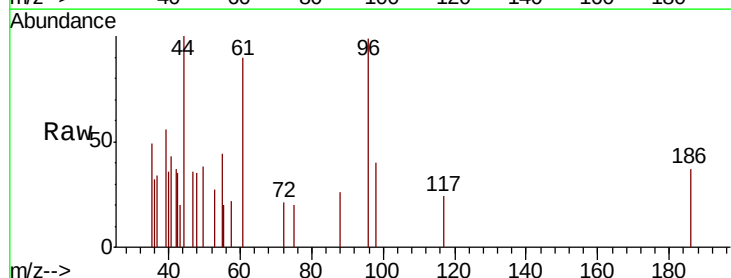
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0535-190704

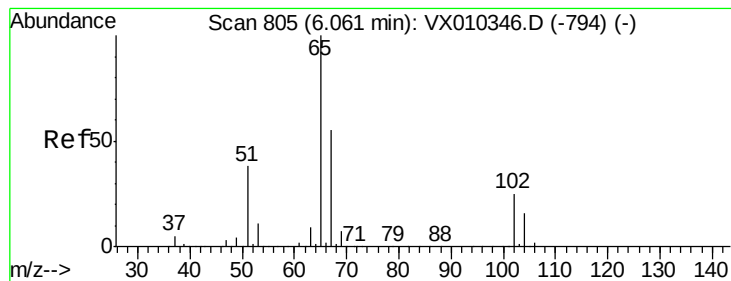
Tot Ion: 77 Resp: 838
 Ion Ratio Lower Upper
 77 100
 97 0.0 13.1 39.3#



#27
 cis-1,2-Dichloroethene
 Concen: 0.249 ug/l
 RT: 4.62 min Scan# 568
 Delta R.T. 0.02 min
 Lab File: VX010750.D
 Acq: 09 Jul 2019 15:01

Tgt Ion: 96 Resp: 591
 Ion Ratio Lower Upper
 96 100
 61 157.2 0.0 251.8
 98 75.5 0.0 129.4





#33

1,2-Dichloroethane-d4

Concen: 53.471 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010750.D

Acq: 09 Jul 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

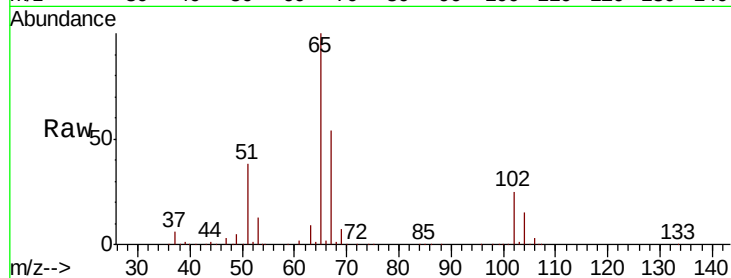
DUP-0535-190704

Tot Ion: 65 Resp: 110302

Ion Ratio Lower Upper

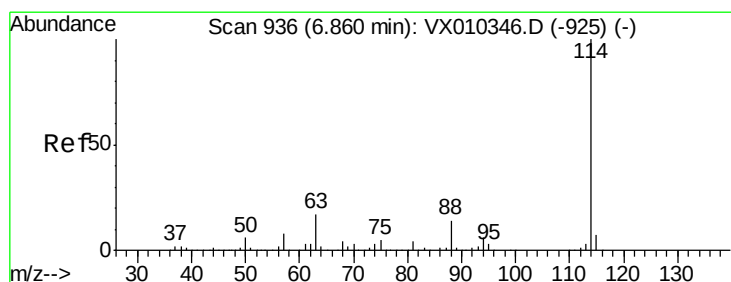
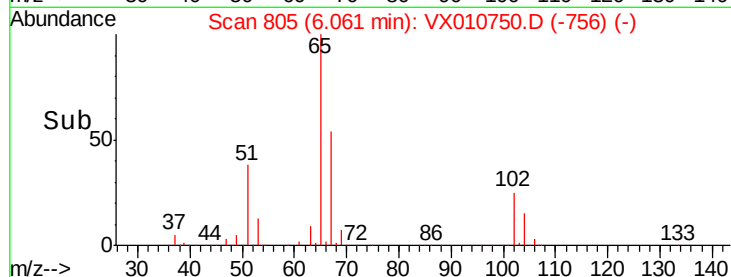
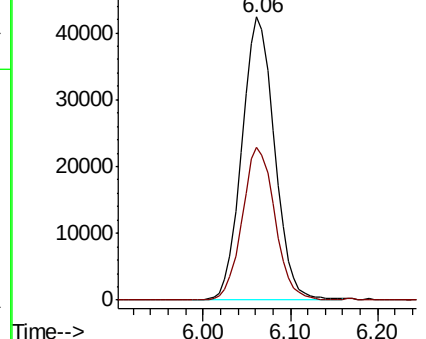
65 100

67 53.8 0.0 110.2



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: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010750.D

Acq: 09 Jul 2019 15:01

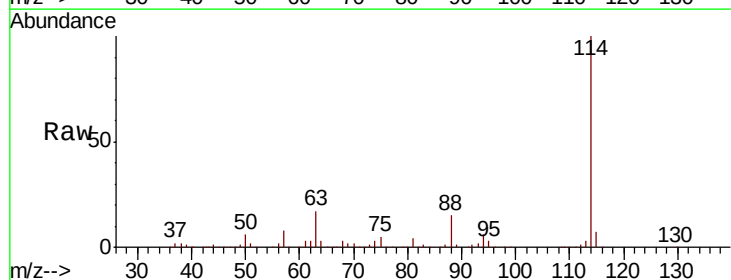
Tgt Ion: 114 Resp: 343132

Ion Ratio Lower Upper

114 100

63 17.2 0.0 33.8

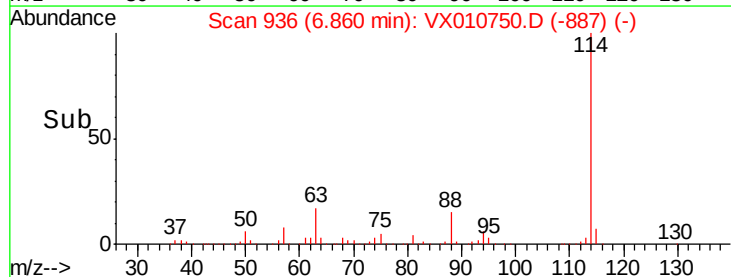
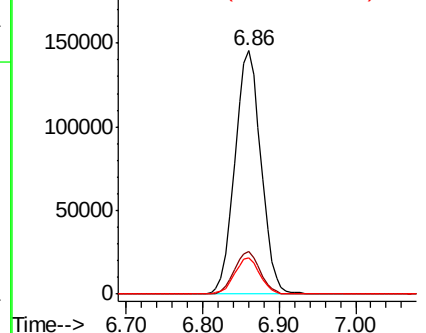
88 15.0 0.0 27.6

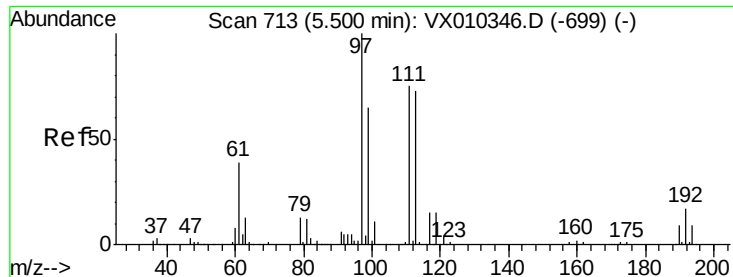


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.665 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010750.D

Acq: 09 Jul 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

DUP-0535-190704

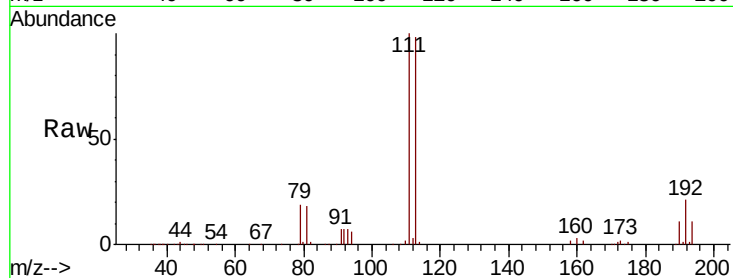
Tot Ion:113 Resp: 106367

Ion Ratio Lower Upper

113 100

111 102.0 81.2 121.8

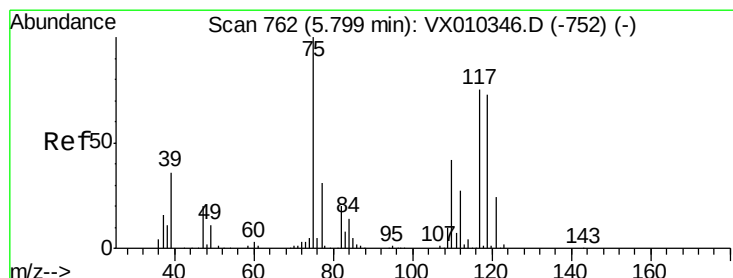
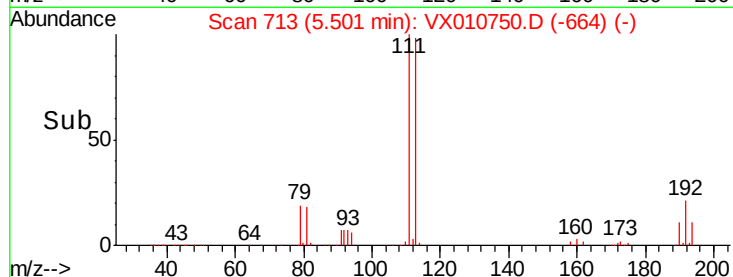
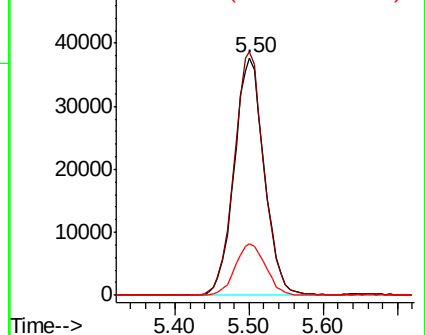
192 22.2 18.6 27.8



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: 5.304 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010750.D

Acq: 09 Jul 2019 15:01

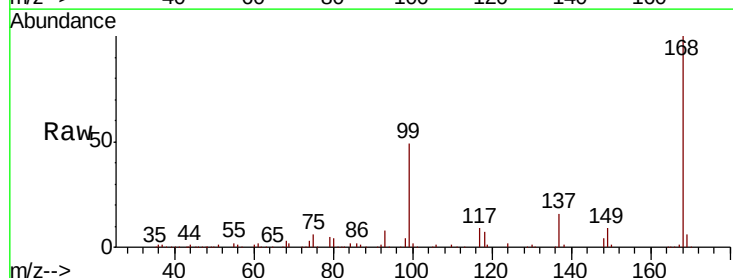
Tgt Ion: 75 Resp: 14462

Ion Ratio Lower Upper

75 100

110 9.8 20.8 62.2#

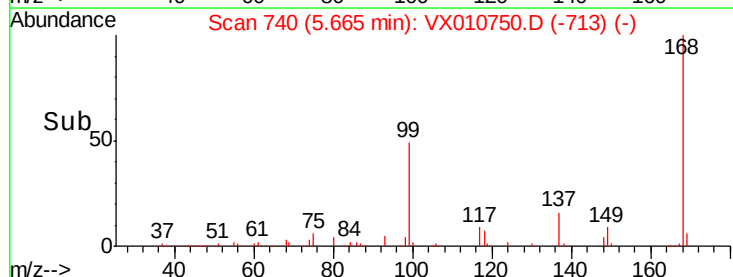
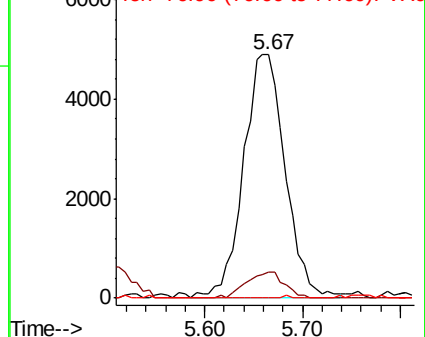
77 0.2 25.4 38.0#

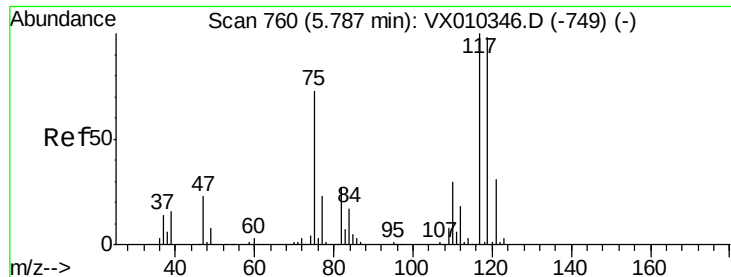


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

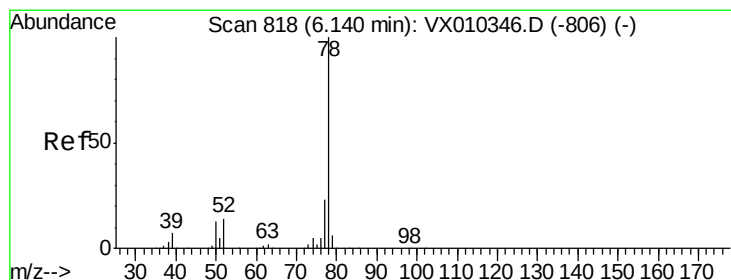
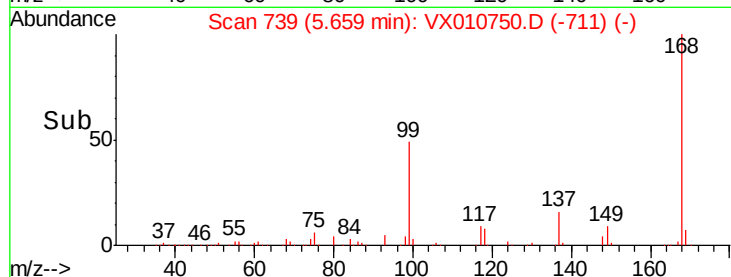
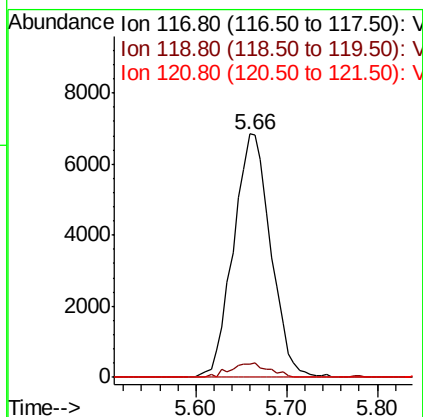
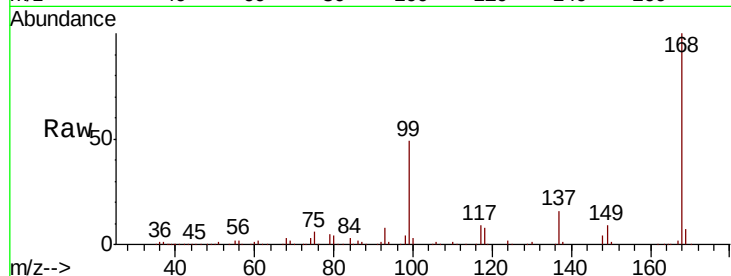




#38
Carbon Tetrachloride
Concen: 6.610 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX010750.D
Acq: 09 Jul 2019 15:01

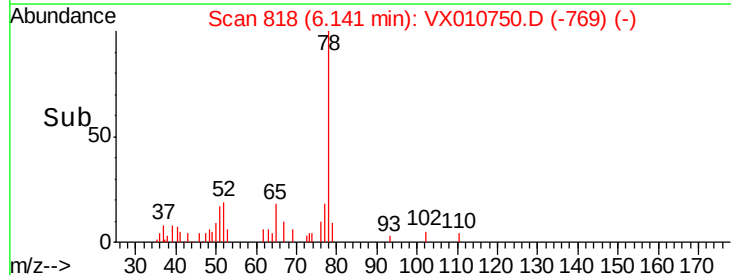
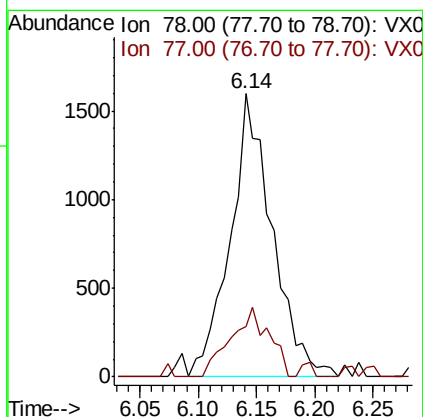
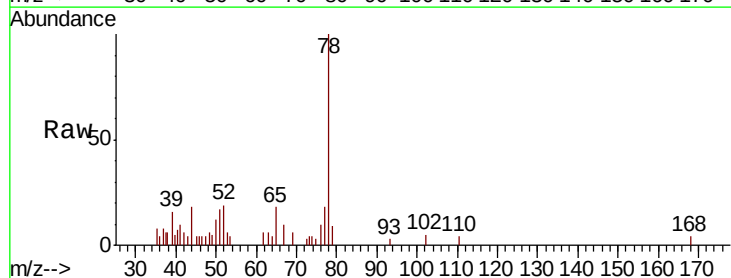
Instrument :
MSVOA_X
ClientSampleId :
DUP-0535-190704

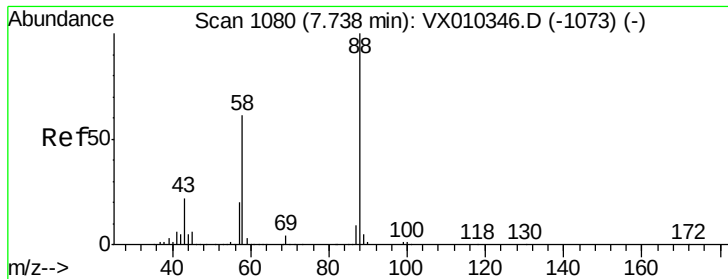
Tot Ion:117 Resp: 19518
Ion Ratio Lower Upper
117 100
119 5.5 78.2 117.4#
121 0.0 24.7 37.1#



#40
Benzene
Concen: 0.471 ug/l
RT: 6.14 min Scan# 818
Delta R.T. 0.00 min
Lab File: VX010750.D
Acq: 09 Jul 2019 15:01

Tgt Ion: 78 Resp: 4001
Ion Ratio Lower Upper
78 100
77 17.8 18.6 28.0#

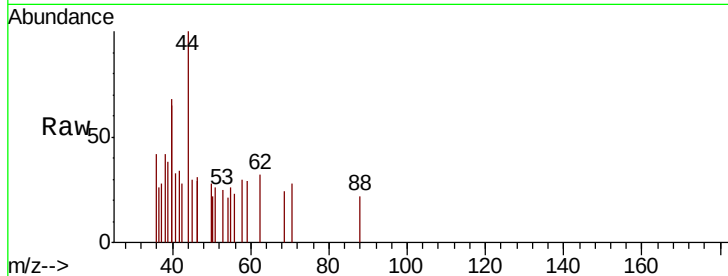




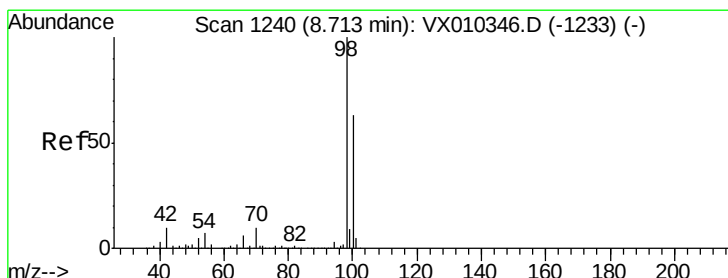
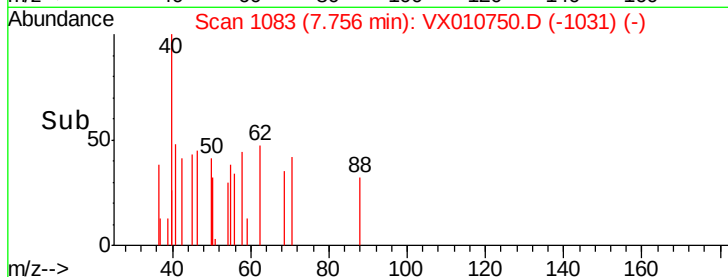
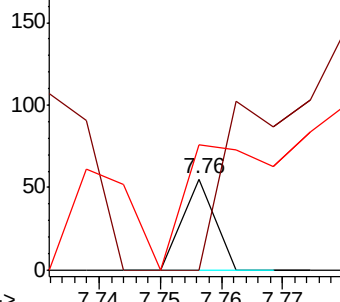
#49
1,4-Dioxane
Concen: 0.322 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.02 min
Lab File: VX010750.D
Acq: 09 Jul 2019 15:01

Instrument :
MSVOA_X
ClientSampleId :
DUP-0535-190704

Tot Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.2#
58 0.0 49.5 74.3#

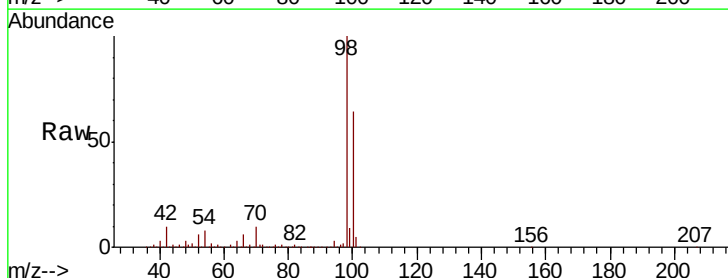


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

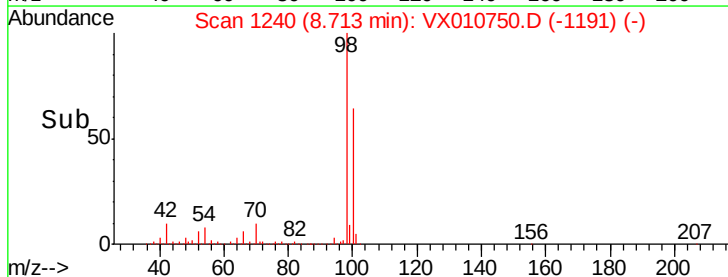
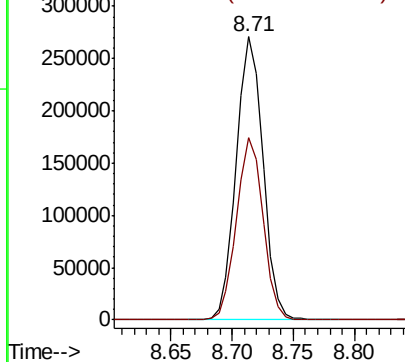


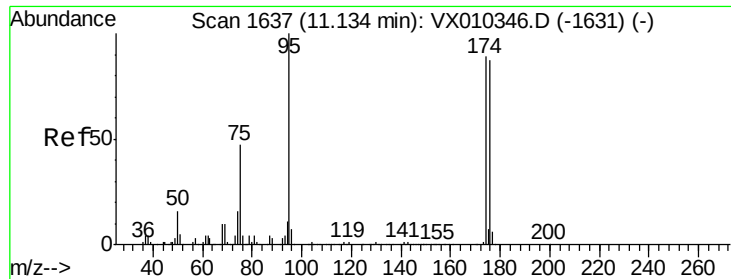
#50
Toluene-d8
Concen: 51.073 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010750.D
Acq: 09 Jul 2019 15:01

Tgt Ion: 98 Resp: 410217
Ion Ratio Lower Upper
98 100
100 64.1 51.6 77.4



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





#62

4-Bromofluorobenzene

Concen: 47.560 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010750.D

Acq: 09 Jul 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

DUP-0535-190704

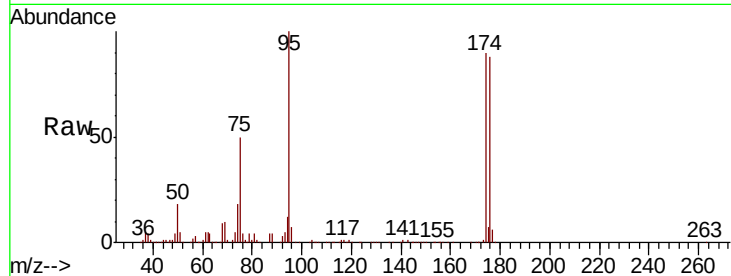
Tot Ion: 95 Resp: 137913

Ion Ratio Lower Upper

95 100

174 94.3 0.0 187.6

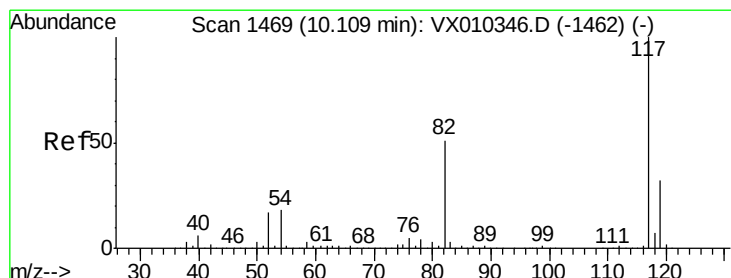
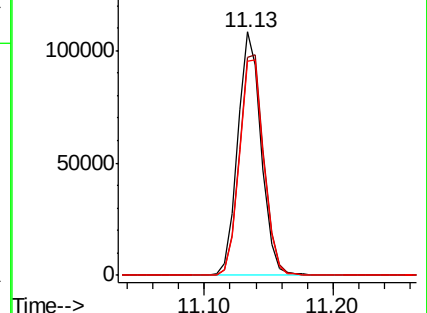
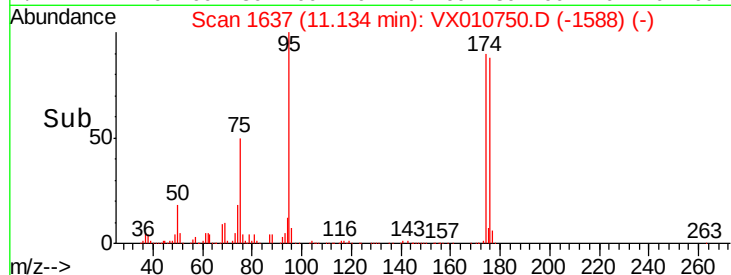
176 91.8 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX010750.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX010750.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX010750.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010750.D

Acq: 09 Jul 2019 15:01

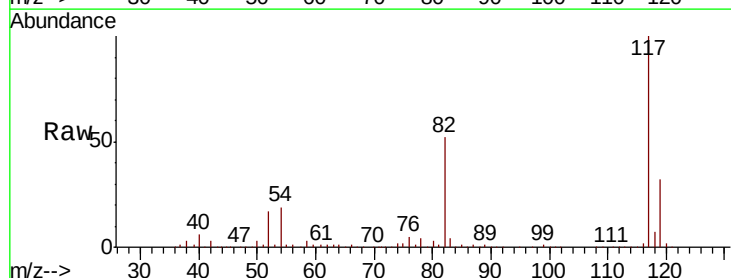
Tgt Ion: 117 Resp: 315076

Ion Ratio Lower Upper

117 100

82 52.2 41.2 61.8

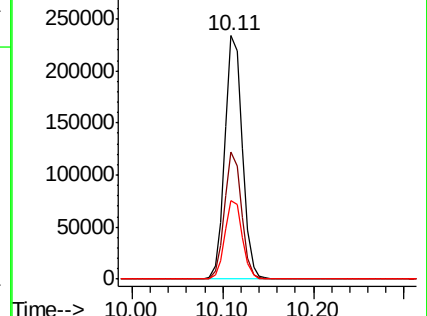
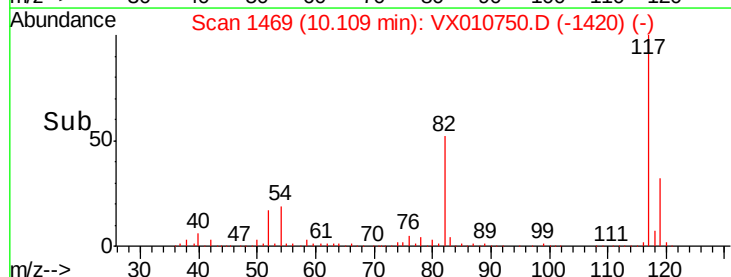
119 32.2 25.5 38.3

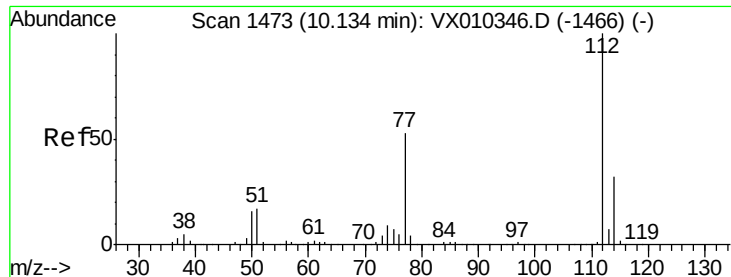


Abundance Ion 116.90 (116.60 to 117.60): VX010750.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX010750.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX010750.D (-1420) (-)

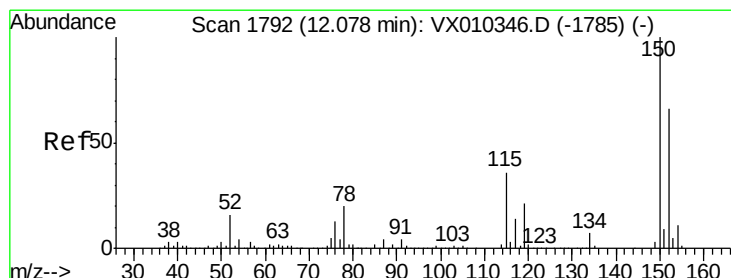
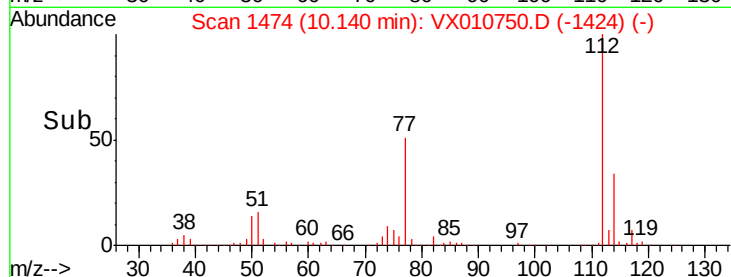
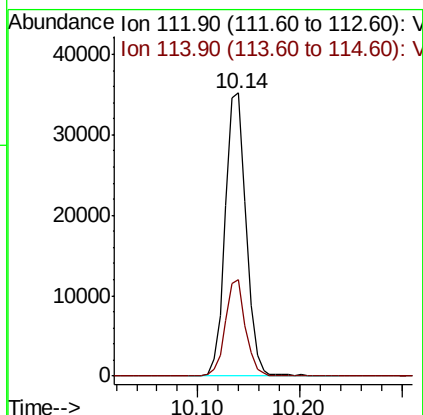
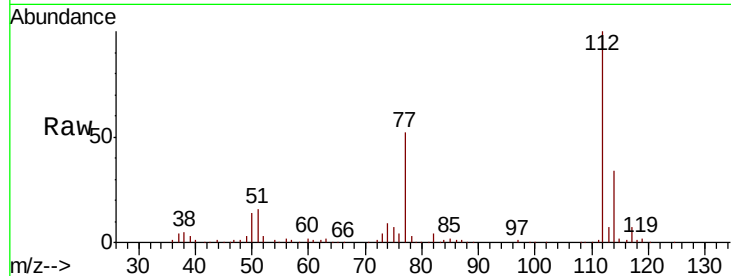




#65
Chlorobenzene
Concen: 7.779 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX010750.D
Acq: 09 Jul 2019 15:01

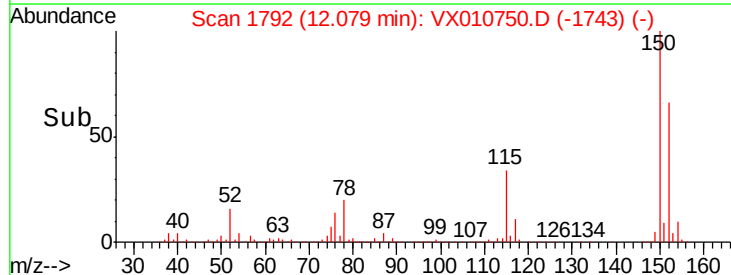
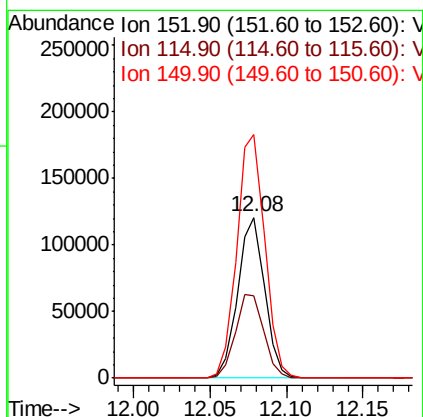
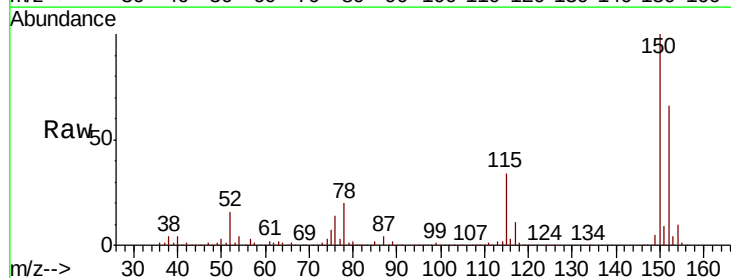
Instrument :
MSVOA_X
ClientSampleId :
DUP-0535-190704

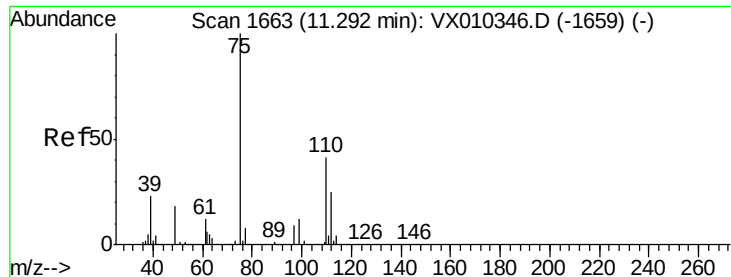
Tot Ion:112 Resp: 49761
Ion Ratio Lower Upper
112 100
114 34.0 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010750.D
Acq: 09 Jul 2019 15:01

Tgt Ion:152 Resp: 147362
Ion Ratio Lower Upper
152 100
115 55.0 38.6 115.7
150 157.4 0.0 347.4





#76

1,2,3-Trichloropropane

Concen: 25.113 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010750.D

Acq: 09 Jul 2019 15:01

Instrument :

MSVOA_X

ClientSampleId :

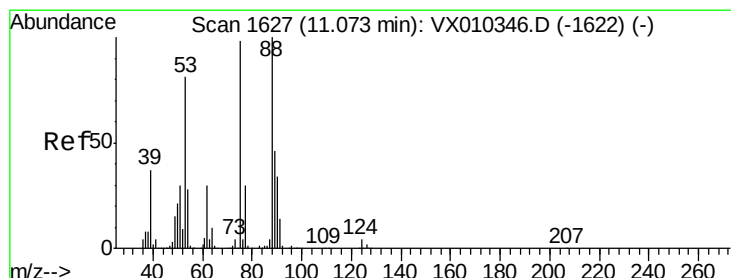
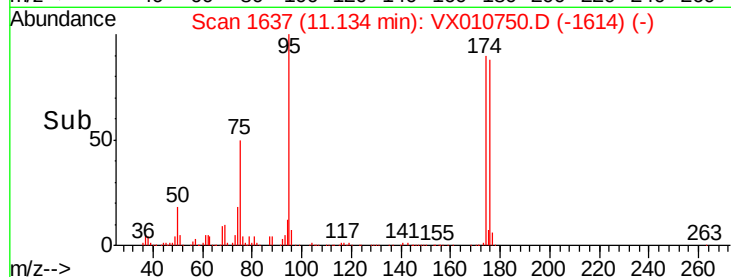
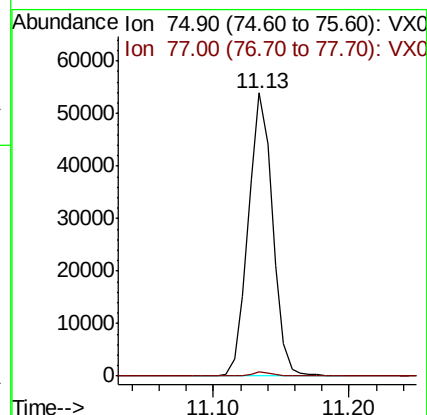
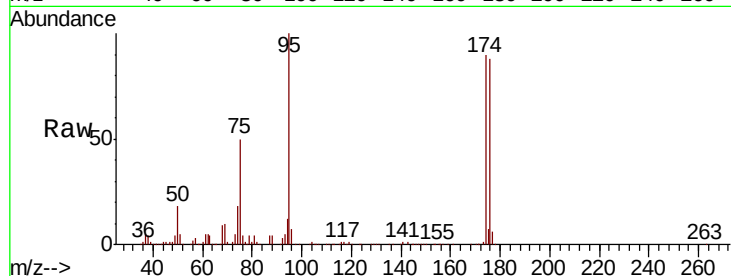
DUP-0535-190704

Tot Ion: 75 Resp: 67436

Ion Ratio Lower Upper

75 100

77 1.4 22.6 67.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.586 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010750.D

Acq: 09 Jul 2019 15:01

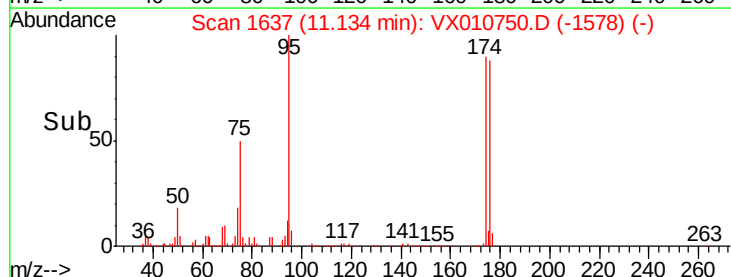
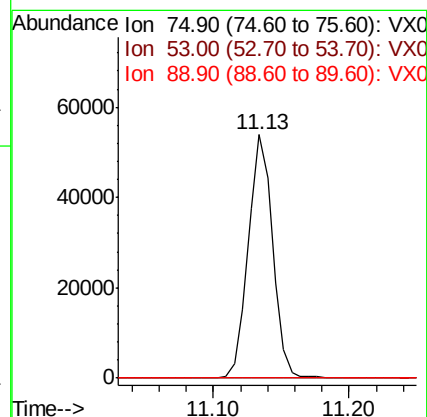
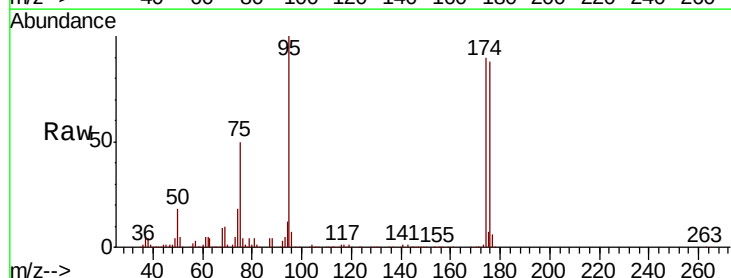
Tgt Ion: 75 Resp: 67436

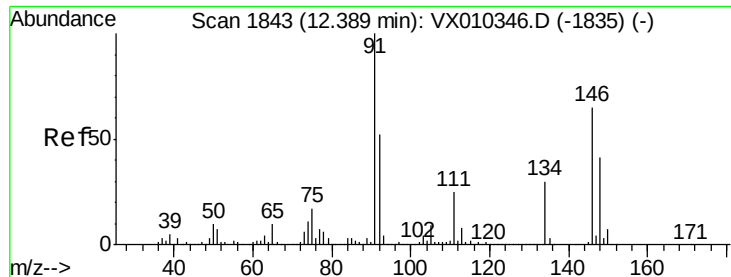
Ion Ratio Lower Upper

75 100

53 0.0 66.1 99.1#

89 0.0 37.8 56.6#





#91
 1,2-Dichlorobenzene
 Concen: 0.312 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX010750.D
 Acq: 09 Jul 2019 15:01

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0535-190704

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.7	19.2	57.6
148	63.9	32.0	96.0

