

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021119\
 Data File : VX007470.D
 Acq On : 11 Feb 2019 16:13
 Operator : JC/SP
 Sample : K1433-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0503-190207

Quant Time: Feb 12 00:04:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	527742	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	807980	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	781089	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	409360	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	269308	48.08	ug/l	0.00
Spiked Amount			Recovery	=	96.16%	
35) Dibromofluoromethane	5.51	113	249576	47.47	ug/l	0.00
Spiked Amount			Recovery	=	94.94%	
50) Toluene-d8	8.71	98	981320	50.31	ug/l	0.00
Spiked Amount			Recovery	=	100.62%	
62) 4-Bromofluorobenzene	11.13	95	401408	56.37	ug/l	0.00
Spiked Amount			Recovery	=	112.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	378	0.235	ug/l	79
3) Chloromethane	1.32	50	6969	1.172	ug/l #	44
5) Bromomethane	1.65	94	458	Below Cal	#	63
6) Chloroethane	1.59	64	77656	20.586	ug/l #	55
11) Tert butyl alcohol	3.06	59	232171	200.278	ug/l #	73
13) Acrolein	2.32	56	193	0.355	ug/l #	14
14) Allyl chloride	2.71	41	8455	1.030	ug/l #	24
15) Acrylonitrile	3.20	53	68032	23.723	ug/l #	30
16) Acetone	2.45	43	14612	5.695	ug/l	96
17) Carbon Disulfide	2.59	76	6132	2.567	ug/l #	75
18) Methyl Acetate	2.84	43	170183	25.747	ug/l #	51
19) Methyl tert-butyl Ether	3.20	73	5307012	325.095	ug/l	98
20) Methylene Chloride	2.87	84	1750	Below Cal	#	23
23) Vinyl Acetate	3.82	43	7212	0.575	ug/l #	71
25) 2-Butanone	4.70	43	3108	0.851	ug/l #	74
29) Tetrahydrofuran	5.15	42	20550	8.948	ug/l	96
30) Chloroform	5.26	83	24819	2.742	ug/l #	33
31) Cyclohexane	5.58	56	396575	50.912	ug/l	96
36) 1,1-Dichloropropene	5.67	75	32330	4.460	ug/l #	48
38) Carbon Tetrachloride	5.67	117	47299	6.725	ug/l #	15
39) Methylcyclohexane	7.46	83	194540	22.179	ug/l #	89
40) Benzene	6.15	78	6600754	309.098	ug/l	100
41) Methacrylonitrile	5.06	41	3488	0.888	ug/l #	26
42) 1,2-Dichloroethane	6.14	62	62935	8.518	ug/l #	74
43) Isopropyl Acetate	6.45	43	83296	7.364	ug/l #	18
46) Dibromomethane	7.63	93	1393	0.358	ug/l #	1
47) Bromodichloromethane	7.84	83	3521	0.534	ug/l #	82
48) Methyl methacrylate	7.73	41	18556	3.280	ug/l #	35
49) 1,4-Dioxane	7.74	88	357	9.634	ug/l #	1
51) 4-Methyl-2-Pentanone	8.65	43	51993	6.982	ug/l	96
52) Toluene	8.79	92	118656	8.612	ug/l	98
55) 1,1,2-Trichloroethane	9.16	97	36266	6.315	ug/l #	20
56) Ethyl methacrylate	9.16	69	7858	0.988	ug/l #	1
59) 2-Hexanone	9.51	43	28241	4.874	ug/l	93

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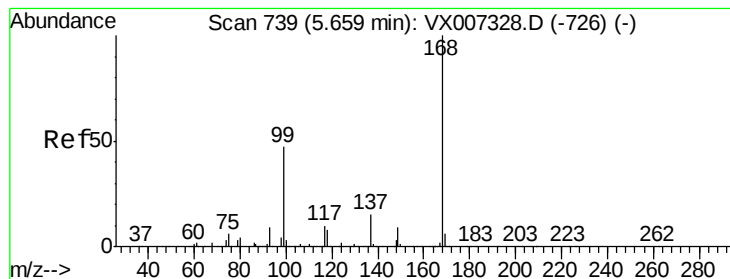
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0503-190207

Quant Time: Feb 12 00:04:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

65) Chlorobenzene	10.34	112	19602	1.150	ug/l #	54
67) Ethyl Benzene	10.25	91	16254388	592.174	ug/l #	52
68) m/p-Xylenes	10.36	106	643117	58.941	ug/l	98
69) o-Xylene	10.70	106	791645	75.400	ug/l	98
70) Styrene	10.70	104	72031	4.230	ug/l #	1
73) Isopropylbenzene	11.02	105	3184018	114.458	ug/l	99
74) N-amyl acetate	10.90	43	8740	0.812	ug/l #	81
75) 1,1,2,2-Tetrachloroethane	11.21	83	57797	6.817	ug/l #	25
76) 1,2,3-Trichloropropane	11.36	75	24541	3.082	ug/l #	1
78) n-propylbenzene	11.36	91	3922094	128.575	ug/l	99
79) 2-Chlorotoluene	11.36	91	3922094	211.897	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.51	105	330733	14.532	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.02	75	35923	16.994	ug/l #	38
82) 4-Chlorotoluene	11.36	91	3922094	183.127	ug/l #	43
83) tert-Butylbenzene	11.77	119	30001	1.331	ug/l	88
84) 1,2,4-Trimethylbenzene	11.80	105	762571	33.004	ug/l	99
85) sec-Butylbenzene	11.94	105	146877	5.386	ug/l	95
86) p-Isopropyltoluene	12.23	119	671273	27.268	ug/l	96
89) n-Butylbenzene	12.38	91	165838	7.831	ug/l #	52
90) Hexachloroethane	12.70	117	309469	83.995	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	12.97	75	8082	4.585	ug/l #	1
95) Naphthalene	13.83	128	8616479	312.107	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

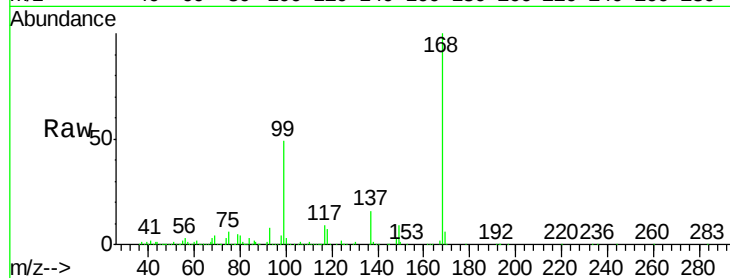
DUP-0503-190207

Tot Ion:168 Resp: 527742

Ion Ratio Lower Upper

168 100

99 48.9 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

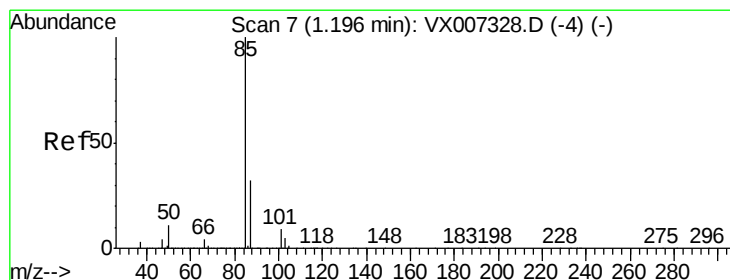
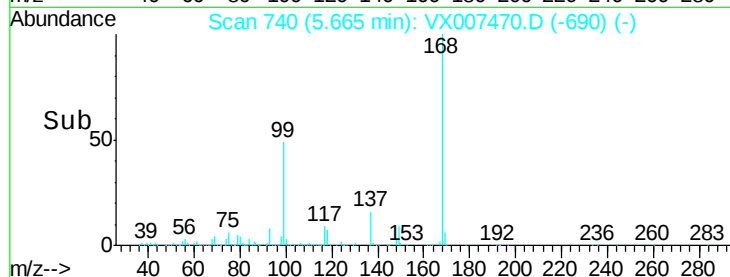
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.235 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007470.D

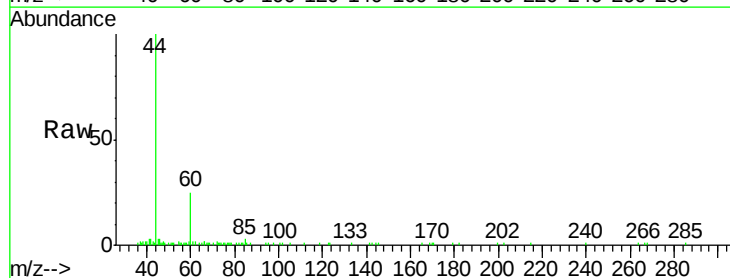
Acq: 11 Feb 2019 16:13

Tgt Ion: 85 Resp: 378

Ion Ratio Lower Upper

85 100

87 20.2 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

400

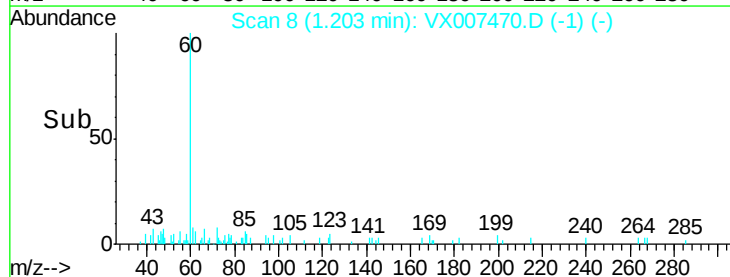
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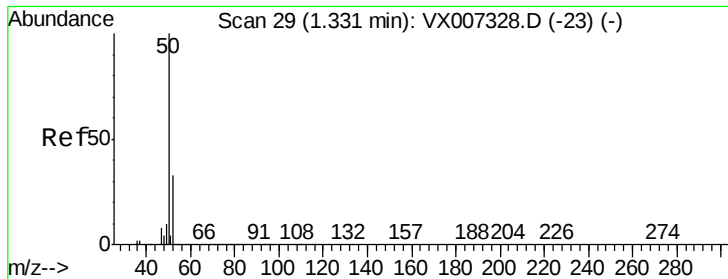
200

100

0

Time--> 1.16 1.18 1.20 1.22 1.24





#3

Chloromethane

Concen: 1.172 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

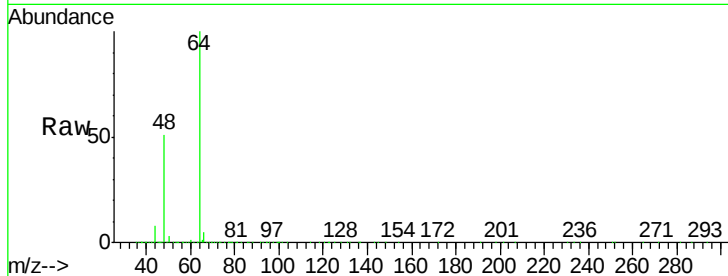
DUP-0503-190207

Tot Ion: 50 Resp: 6969

Ion Ratio Lower Upper

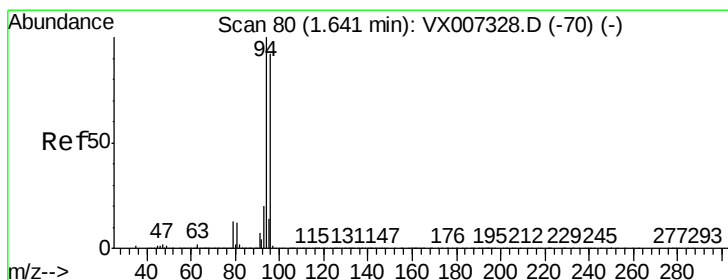
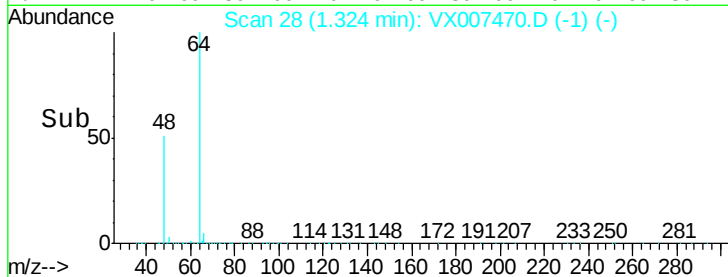
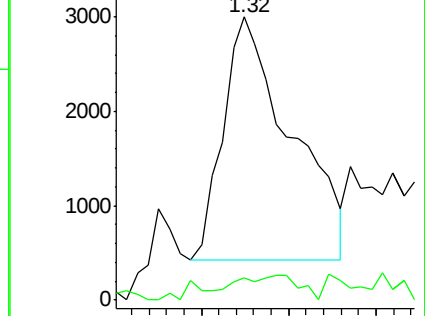
50 100

52 1.1 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007470.D

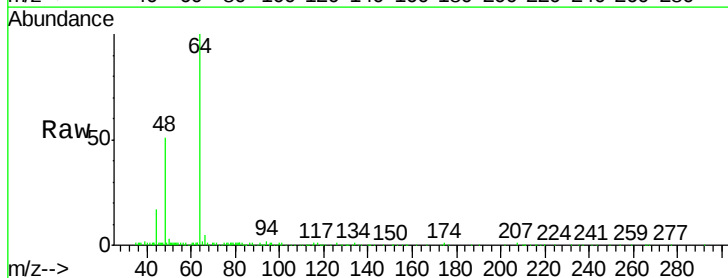
Acq: 11 Feb 2019 16:13

Tgt Ion: 94 Resp: 458

Ion Ratio Lower Upper

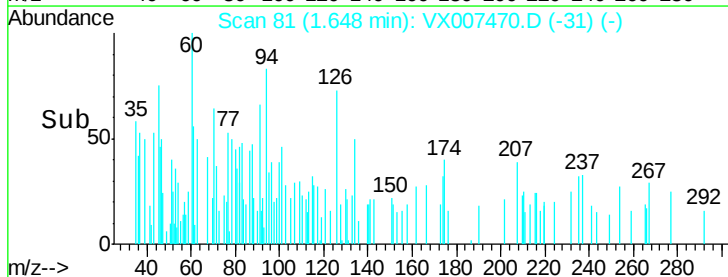
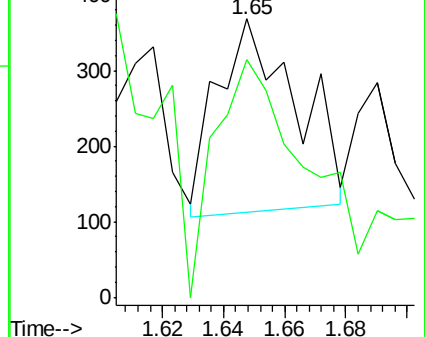
94 100

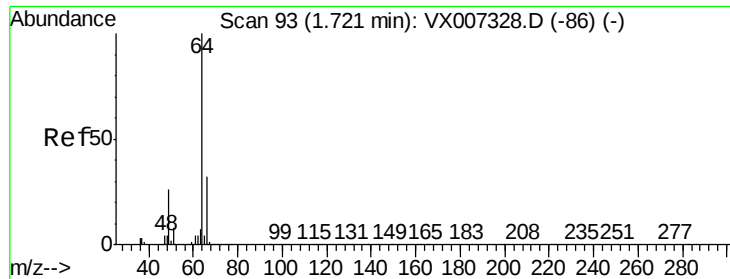
96 128.2 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 20.586 ug/l

RT: 1.59 min Scan# 72

Delta R.T. -0.13 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

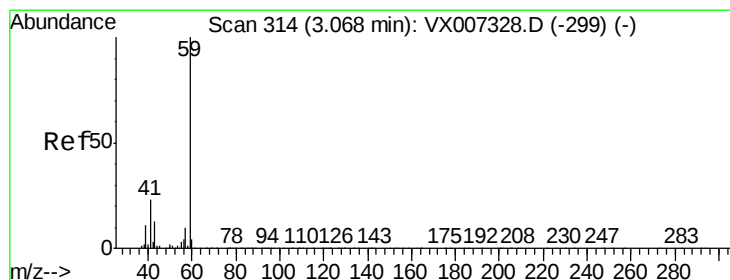
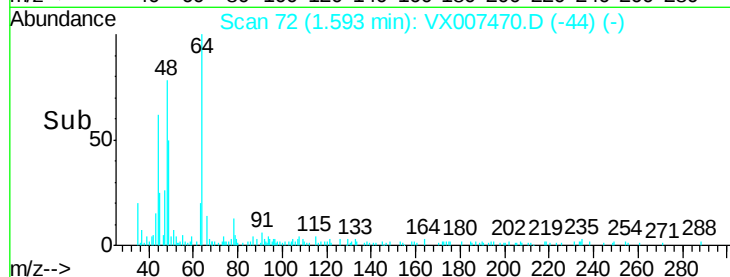
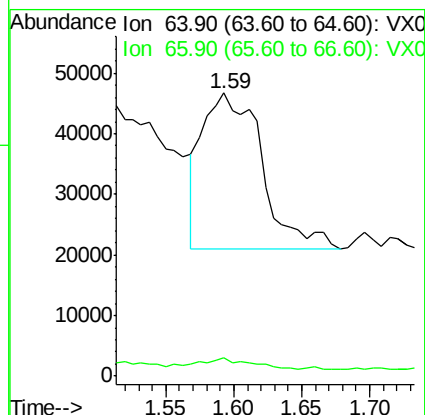
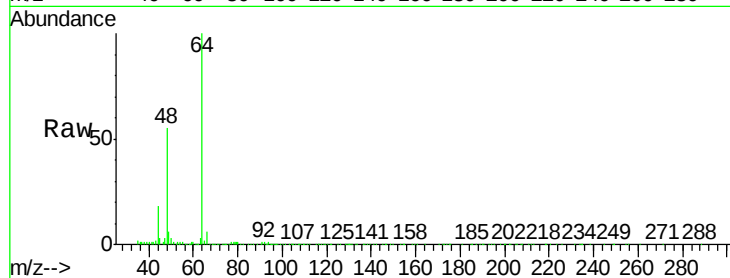
DUP-0503-190207

Tot Ion: 64 Resp: 77656

Ion Ratio Lower Upper

64 100

66 6.7 25.5 38.3#



#11

Tert butyl alcohol

Concen: 200.278 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX007470.D

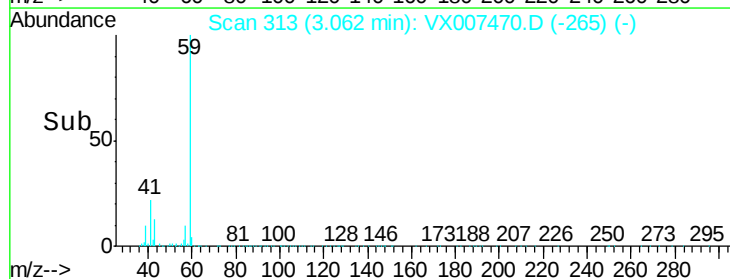
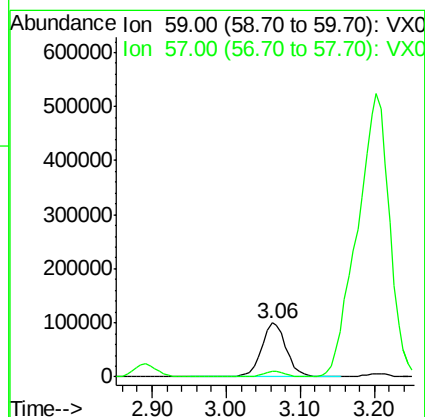
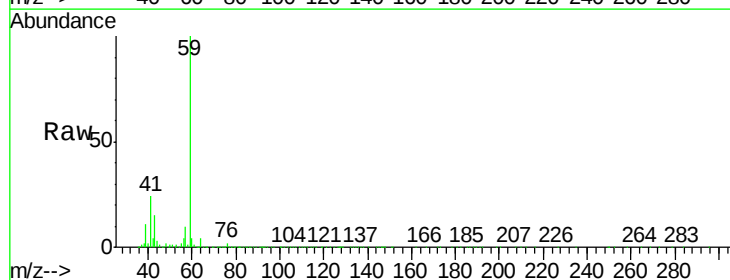
Acq: 11 Feb 2019 16:13

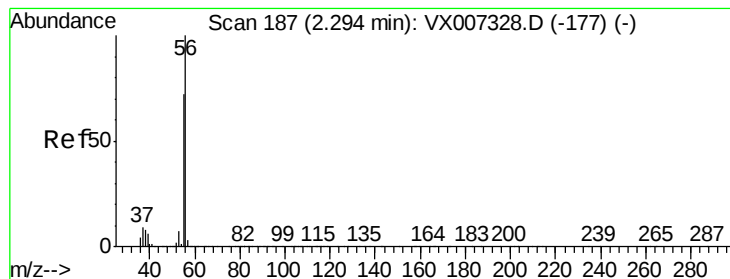
Tgt Ion: 59 Resp: 232171

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#





#13

Acrolein

Concen: 0.355 ug/l

RT: 2.32 min Scan# 191

Delta R.T. 0.02 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

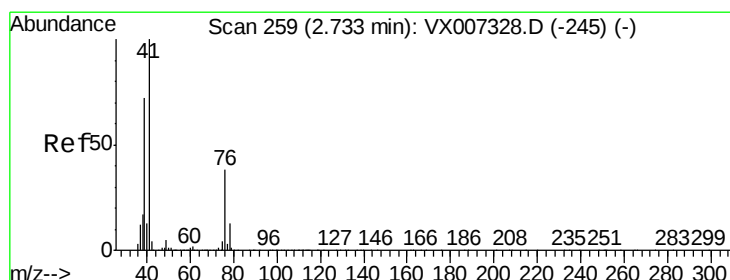
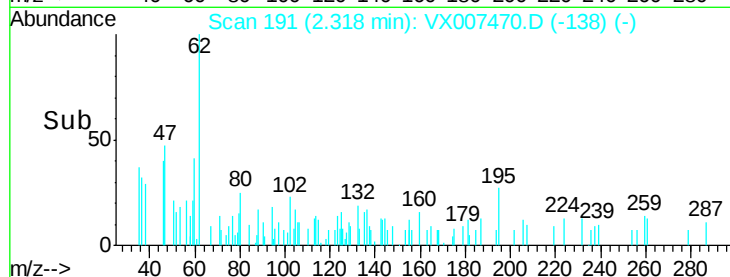
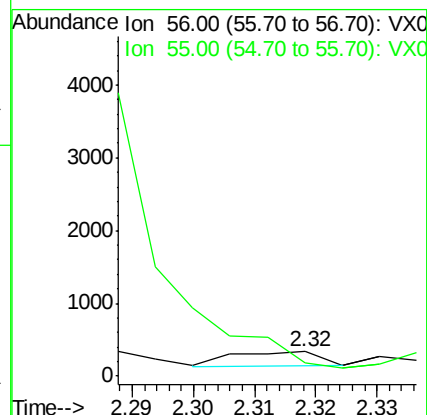
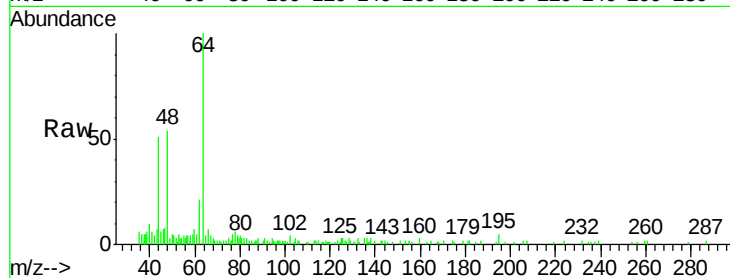
DUP-0503-190207

Tot Ion: 56 Resp: 193

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#14

Allyl chloride

Concen: 1.030 ug/l

RT: 2.71 min Scan# 256

Delta R.T. -0.02 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

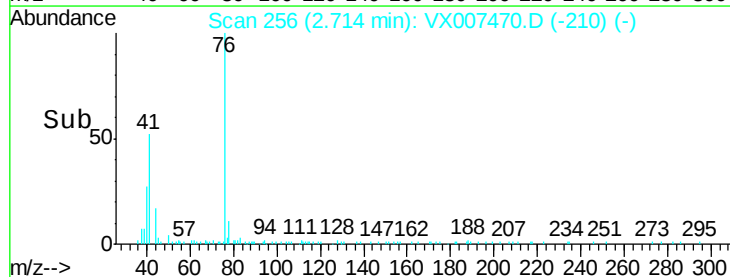
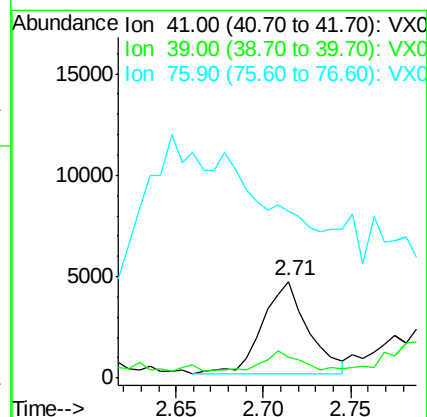
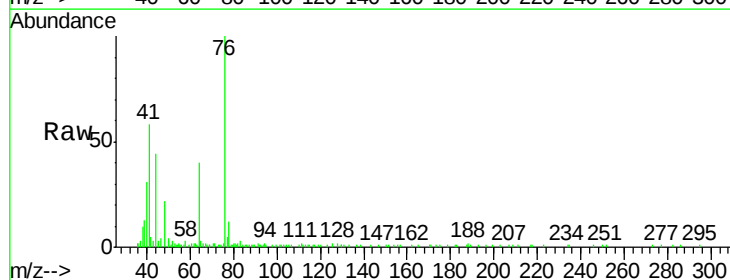
Tgt Ion: 41 Resp: 8455

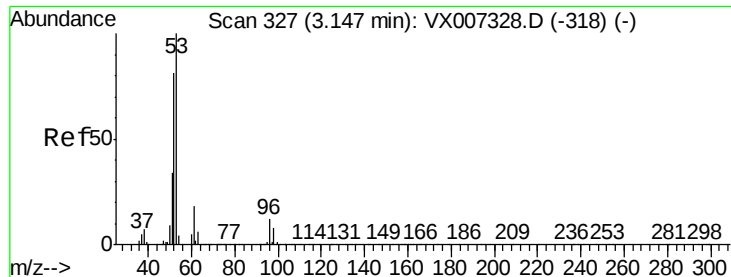
Ion Ratio Lower Upper

41 100

39 0.0 54.1 81.1#

76 0.0 27.8 41.8#





#15

Acrylonitrile

Concen: 23.723 ug/l

RT: 3.20 min Scan# 336

Delta R.T. 0.05 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

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DUP-0503-190207

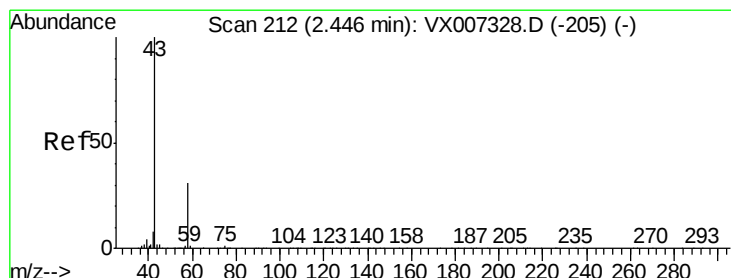
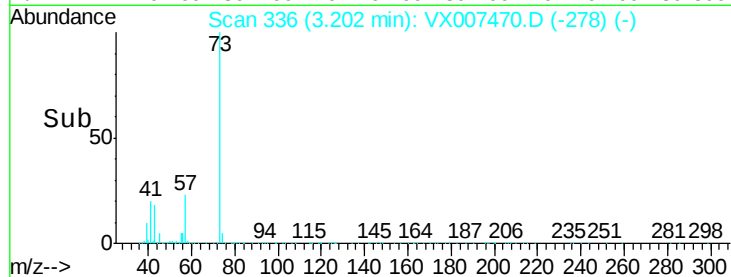
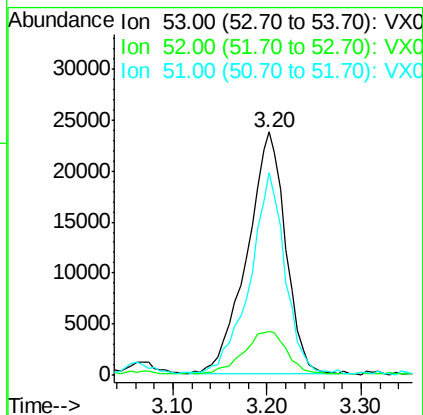
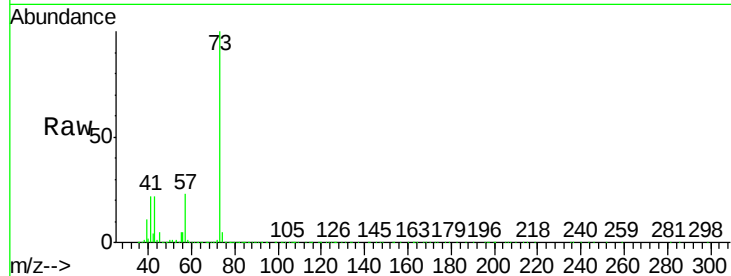
Tot Ion: 53 Resp: 68032

Ion Ratio Lower Upper

53 100

52 19.2 66.4 99.6#

51 75.4 28.4 42.6#



#16

Acetone

Concen: 5.695 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007470.D

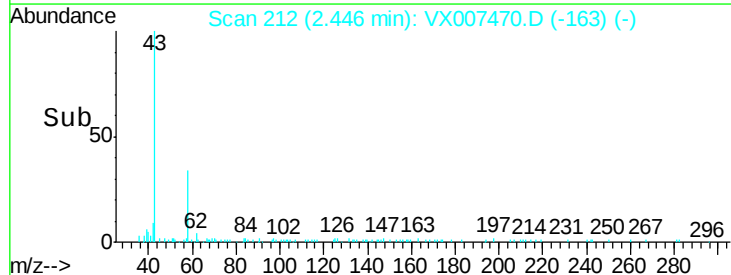
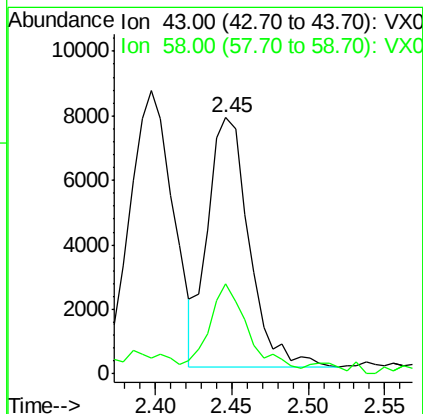
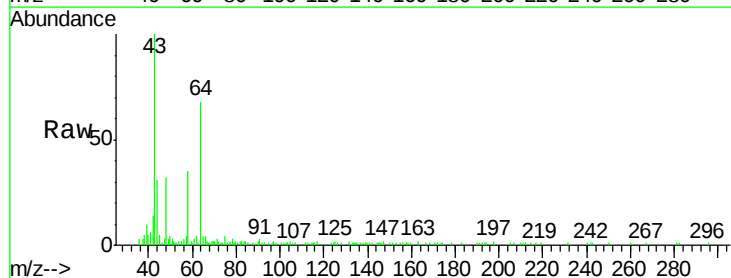
Acq: 11 Feb 2019 16:13

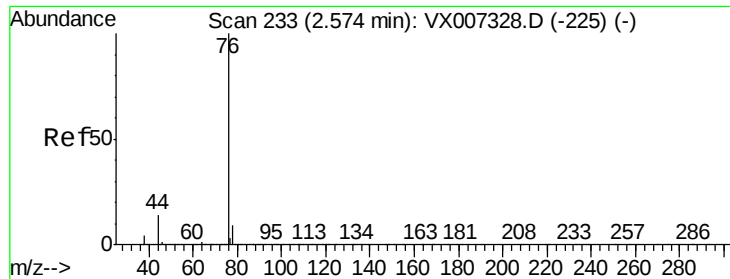
Tgt Ion: 43 Resp: 14612

Ion Ratio Lower Upper

43 100

58 33.1 24.9 37.3

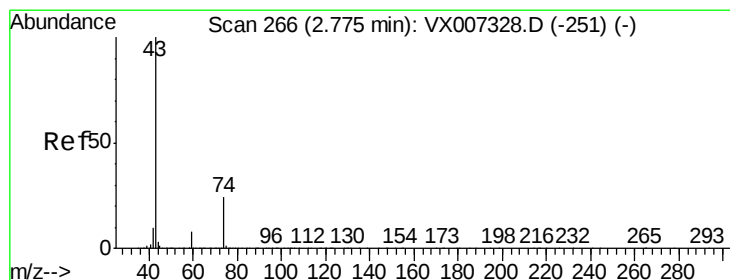
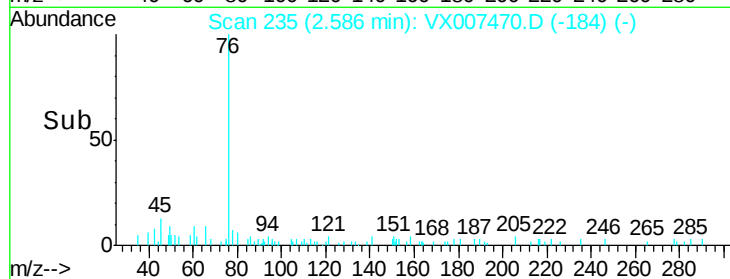
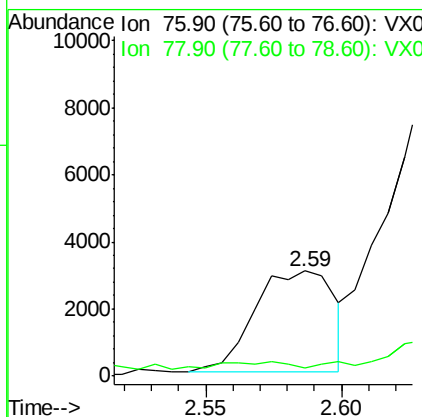
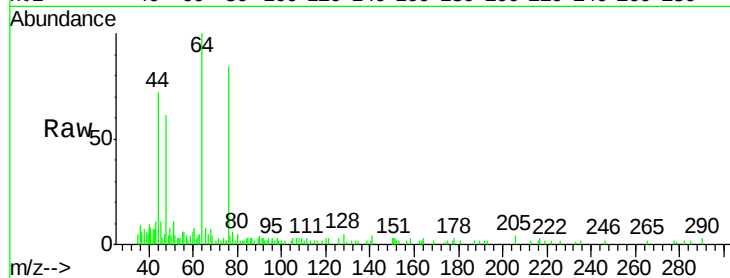




#17
Carbon Disulfide
Concen: 2.567 ug/l
RT: 2.59 min Scan# 235
Delta R.T. 0.01 min
Lab File: VX007470.D
Acq: 11 Feb 2019 16:13

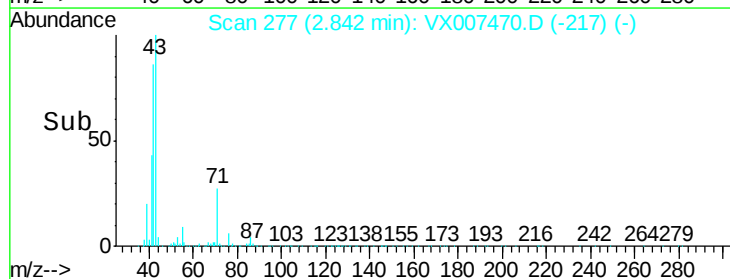
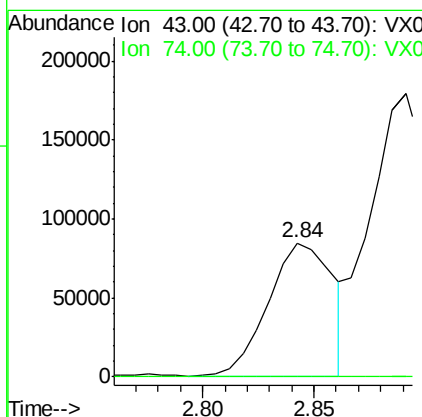
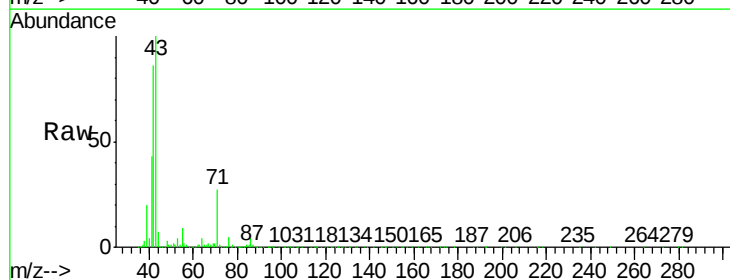
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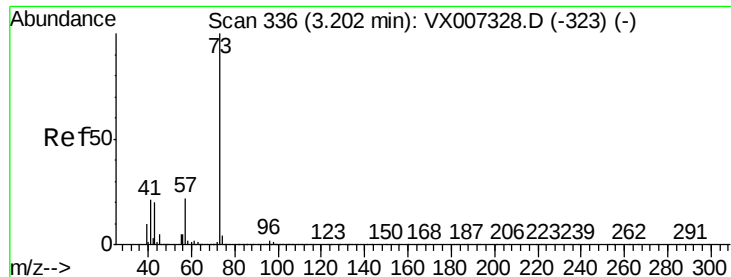
Tot Ion: 76 Resp: 6132
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 25.747 ug/l
RT: 2.84 min Scan# 277
Delta R.T. 0.07 min
Lab File: VX007470.D
Acq: 11 Feb 2019 16:13

Tgt Ion: 43 Resp: 170183
Ion Ratio Lower Upper
43 100
74 0.1 19.4 29.2#

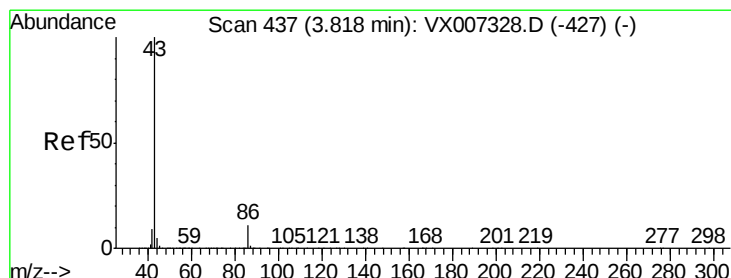
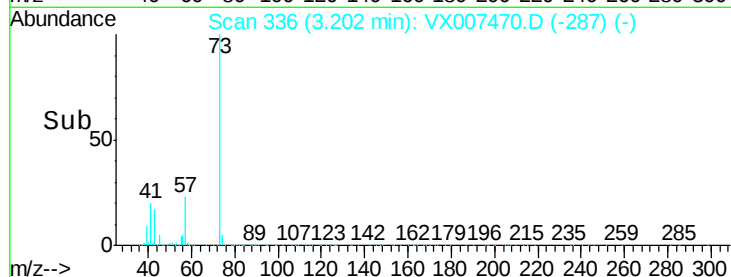
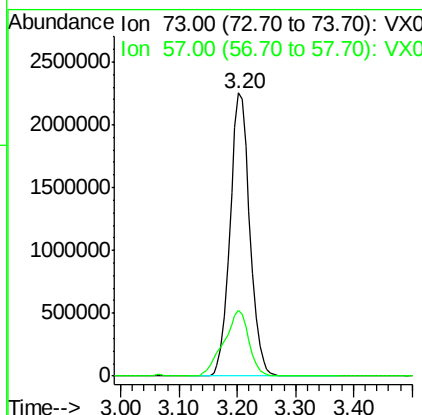
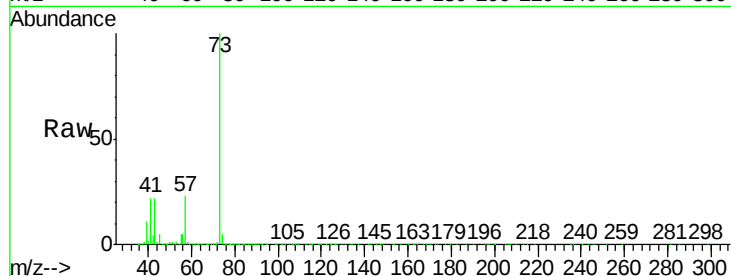




#19
Methvl tert-butvl Ether
Concen: 325.095 ug/l
RT: 3.20 min Scan# 336
Delta R.T. 0.00 min
Lab File: VX007470.D
Acq: 11 Feb 2019 16:13

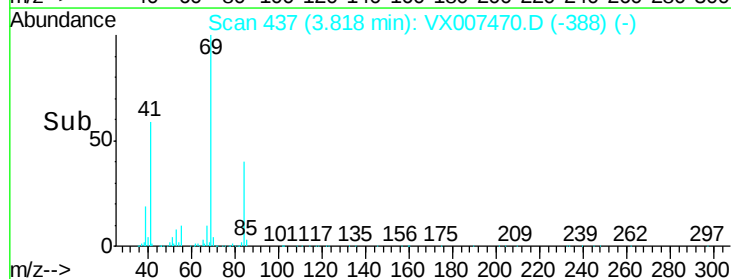
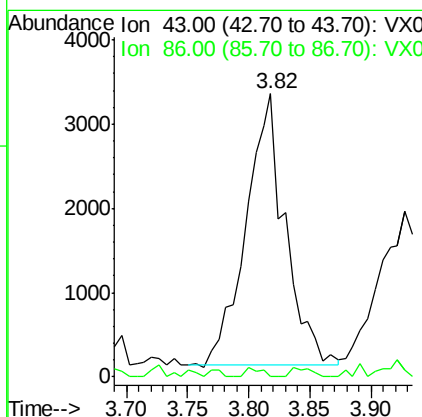
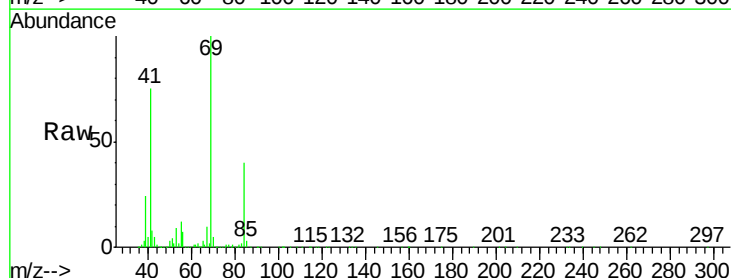
Instrument :
MSVOA_X
ClientSampleId :
DUP-0503-190207

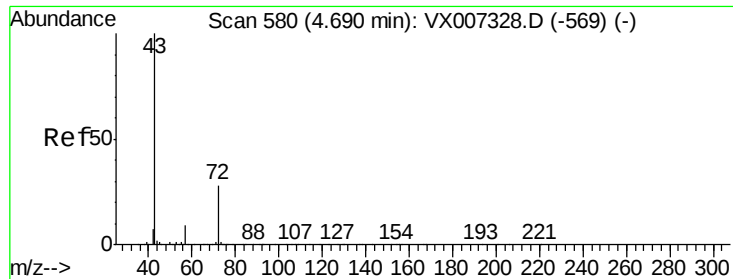
Tot Ion: 73 Resp: 5307012
Ion Ratio Lower Upper
73 100
57 23.2 17.8 26.8



#23
Vinyl Acetate
Concen: 0.575 ug/l
RT: 3.82 min Scan# 437
Delta R.T. 0.00 min
Lab File: VX007470.D
Acq: 11 Feb 2019 16:13

Tgt Ion: 43 Resp: 7212
Ion Ratio Lower Upper
43 100
86 0.0 8.7 13.1#





#25

2-Butanone

Concen: 0.851 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

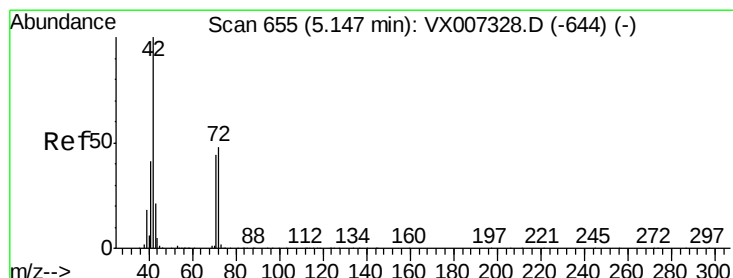
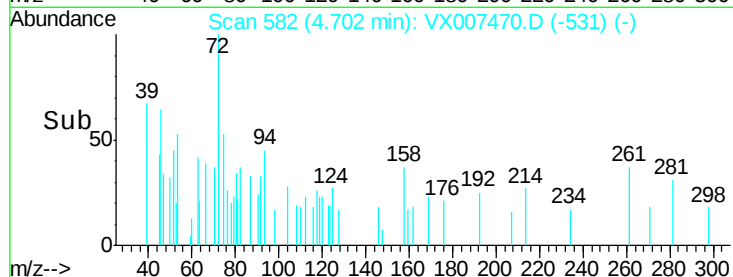
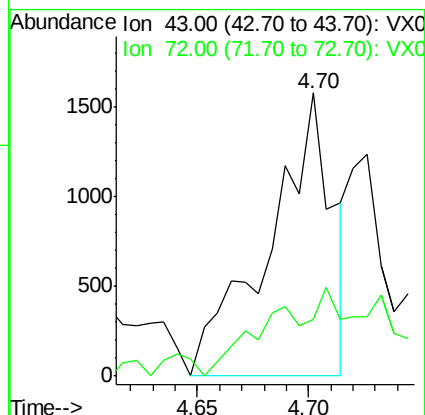
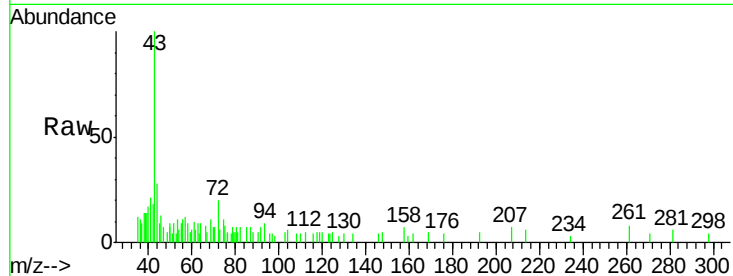
DUP-0503-190207

Tot Ion: 43 Resp: 3108

Ion Ratio Lower Upper

43 100

72 14.1 22.2 33.2#



#29

Tetrahydrofuran

Concen: 8.948 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.01 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

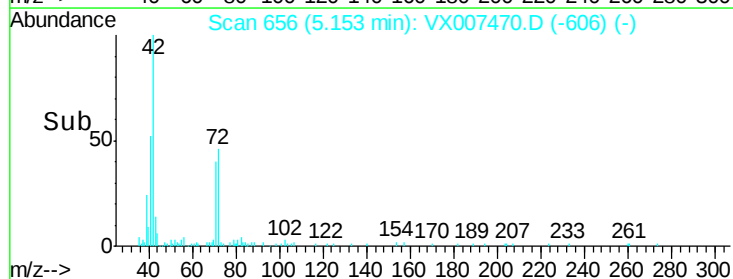
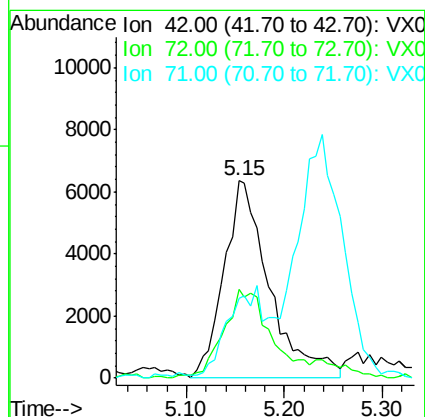
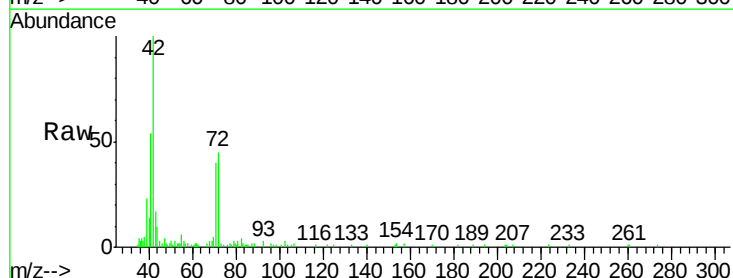
Tgt Ion: 42 Resp: 20550

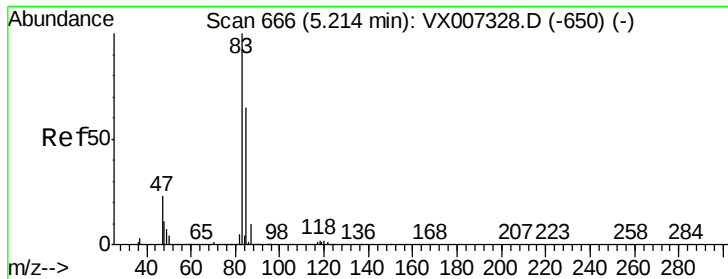
Ion Ratio Lower Upper

42 100

72 46.9 37.6 56.4

71 38.5 34.6 51.8

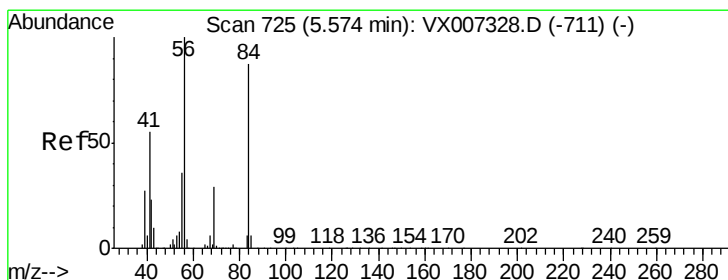
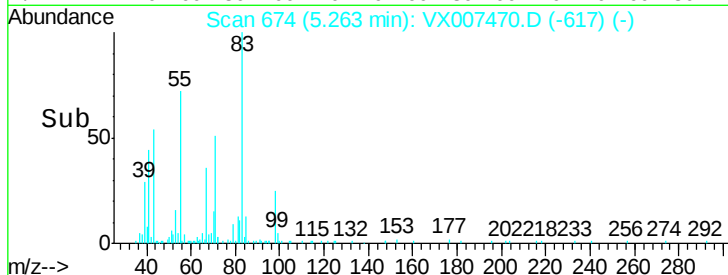
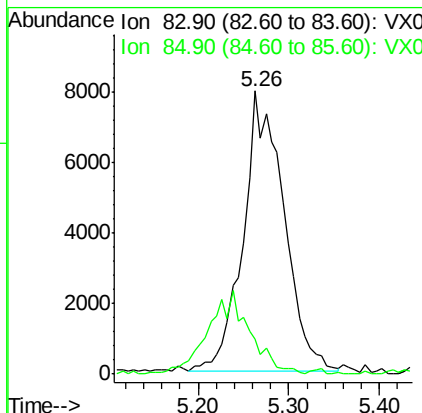
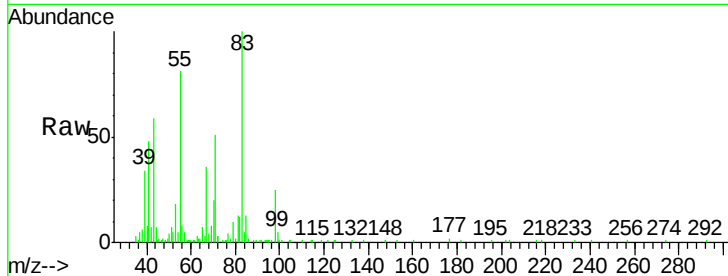




#30
Chloroform
Concen: 2.742 ug/l
RT: 5.26 min Scan# 674
Delta R.T. 0.05 min
Lab File: VX007470.D
Acq: 11 Feb 2019 16:13

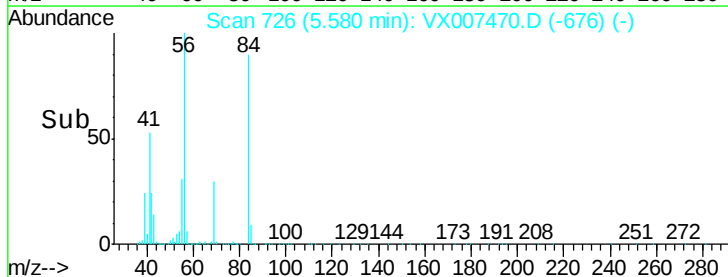
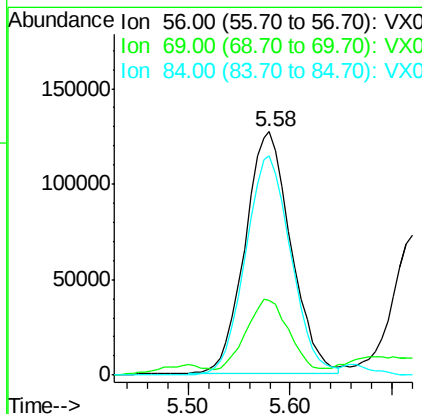
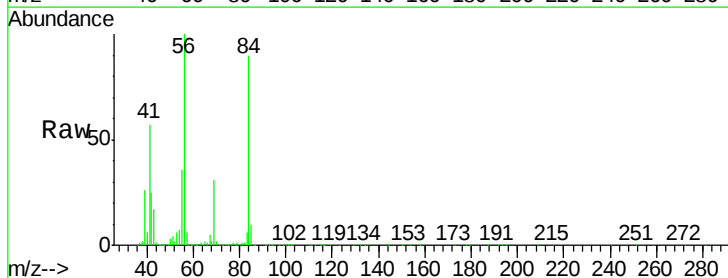
Instrument :
MSVOA_X
ClientSampleId :
DUP-0503-190207

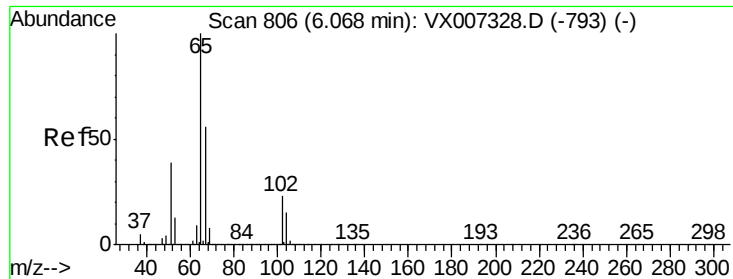
Tot Ion: 83 Resp: 24819
Ion Ratio Lower Upper
83 100
85 11.9 51.6 77.4#



#31
Cyclohexane
Concen: 50.912 ug/l
RT: 5.58 min Scan# 726
Delta R.T. 0.01 min
Lab File: VX007470.D
Acq: 11 Feb 2019 16:13

Tgt Ion: 56 Resp: 396575
Ion Ratio Lower Upper
56 100
69 26.8 23.0 34.6
84 90.6 69.8 104.6

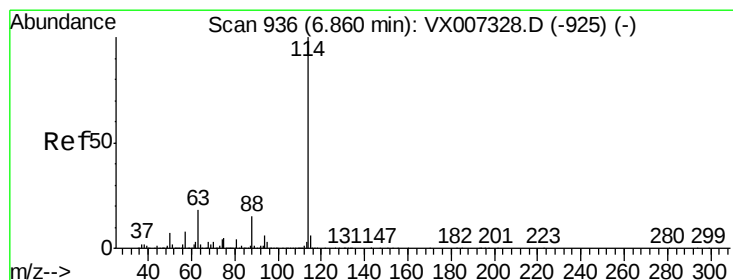
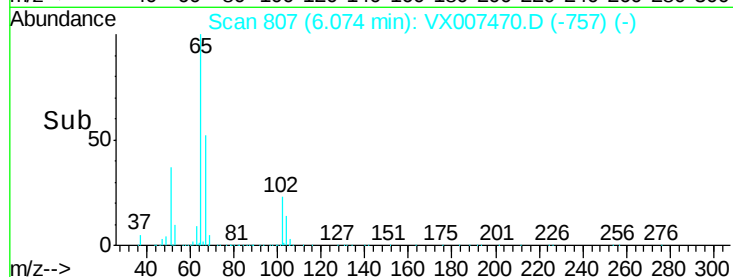
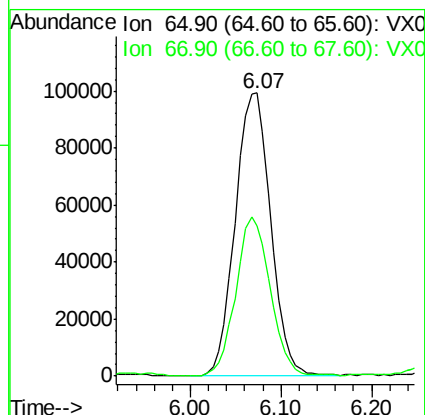
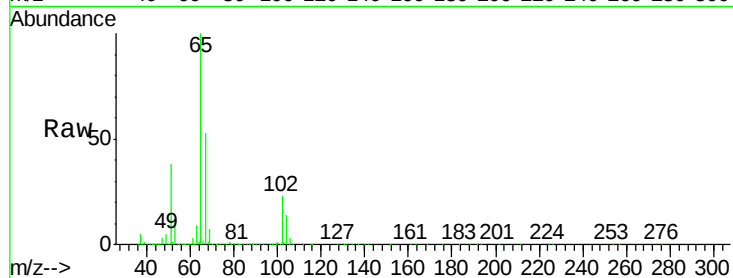




#33
 1,2-Dichloroethane-d4
 Concen: 48.077 ug/l
 RT: 6.07 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX007470.D
 Acq: 11 Feb 2019 16:13

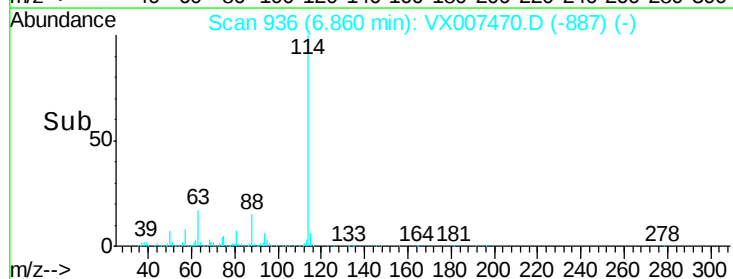
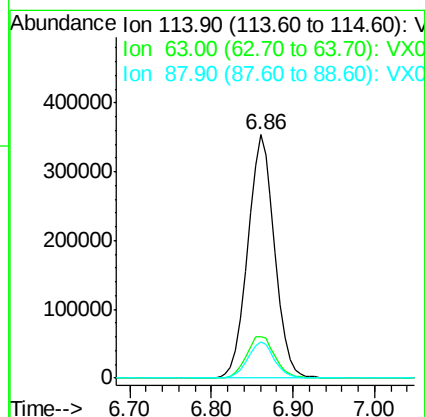
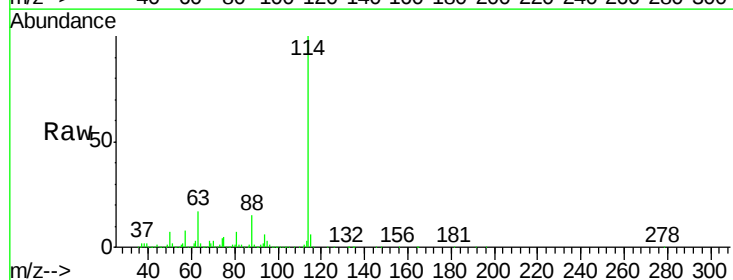
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0503-190207

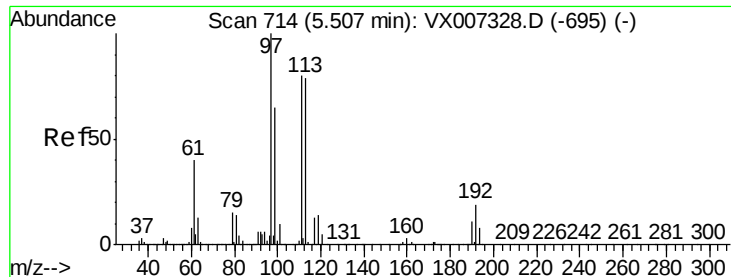
Tot Ion: 65 Resp: 269308
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX007470.D
 Acq: 11 Feb 2019 16:13

Tgt Ion: 114 Resp: 807980
 Ion Ratio Lower Upper
 114 100
 63 17.0 0.0 35.6
 88 14.7 0.0 29.6

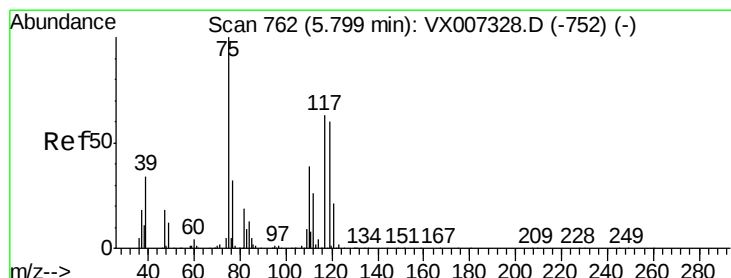
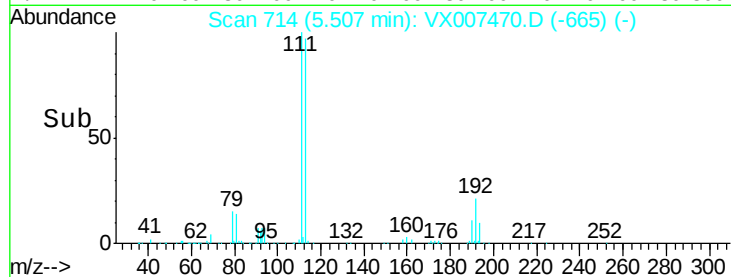
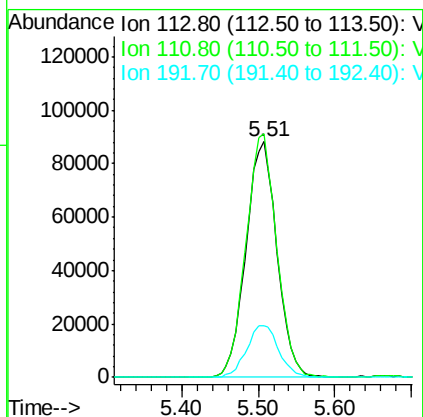
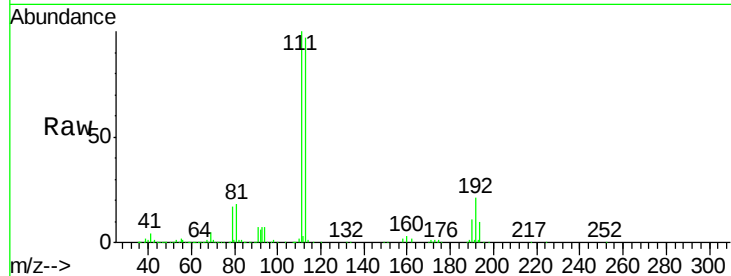




#35
 Dibromofluoromethane
 Concen: 47.473 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.00 min
 Lab File: VX007470.D
 Acq: 11 Feb 2019 16:13

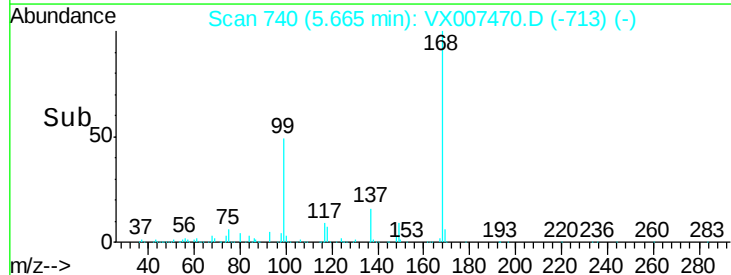
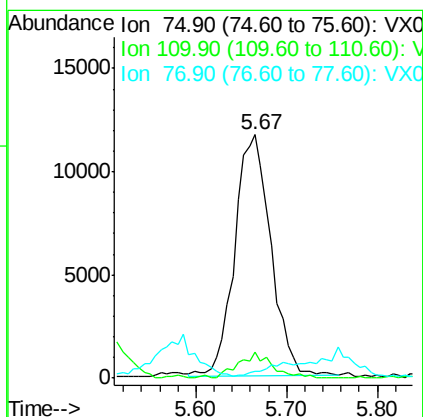
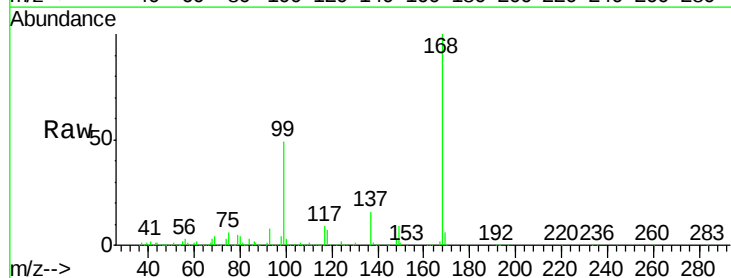
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0503-190207

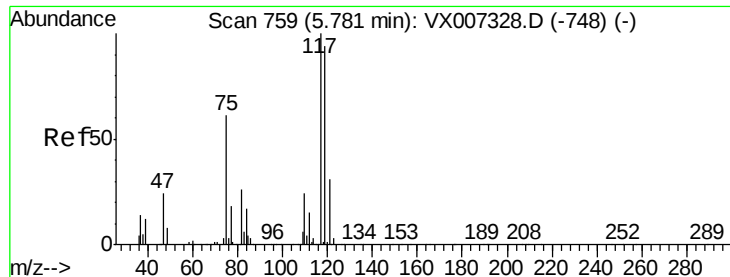
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.8	122.8
192	22.8	18.5	27.7



#36
 1,1-Dichloropropene
 Concen: 4.460 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX007470.D
 Acq: 11 Feb 2019 16:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.0	20.0	59.9#
77	0.0	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 6.725 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

DUP-0503-190207

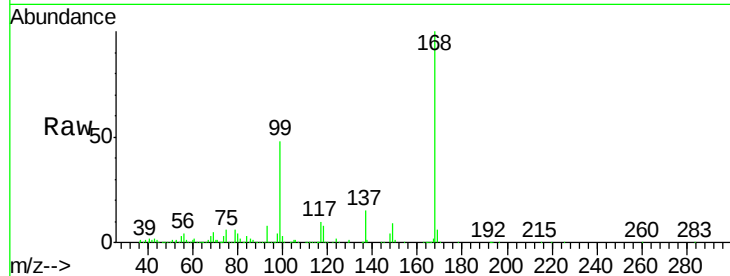
Tot Ion:117 Resp: 47299

Ion Ratio Lower Upper

117 100

119 3.0 75.3 112.9#

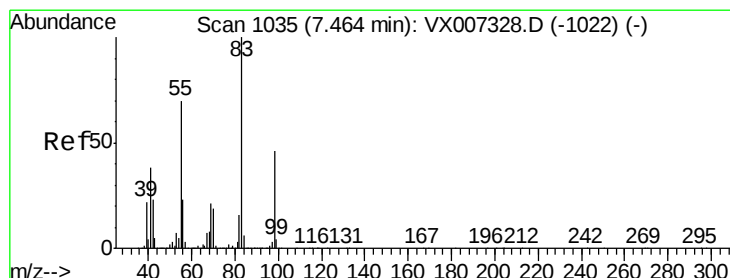
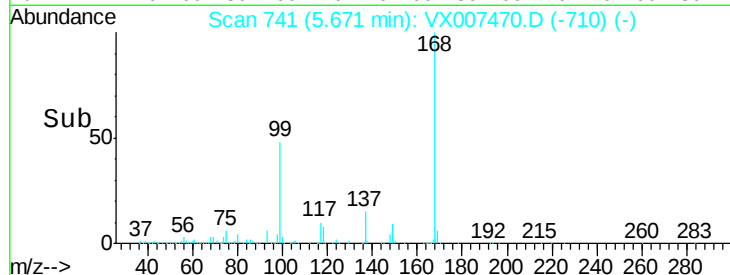
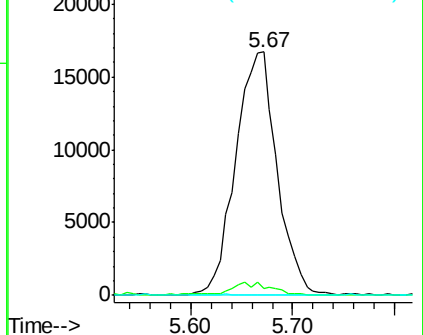
121 0.0 25.0 37.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 22.179 ug/l

RT: 7.46 min Scan# 1034

Delta R.T. -0.01 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

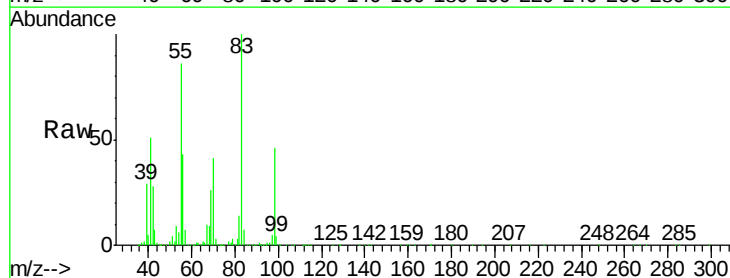
Tgt Ion: 83 Resp: 194540

Ion Ratio Lower Upper

83 100

55 85.2 56.2 84.2#

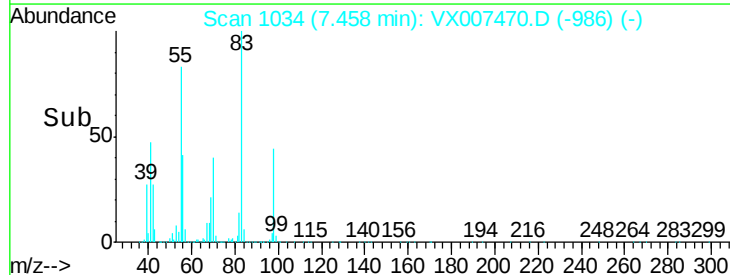
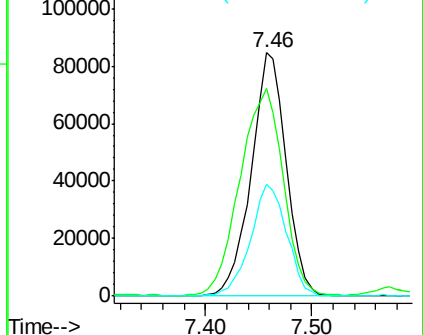
98 45.7 36.8 55.2

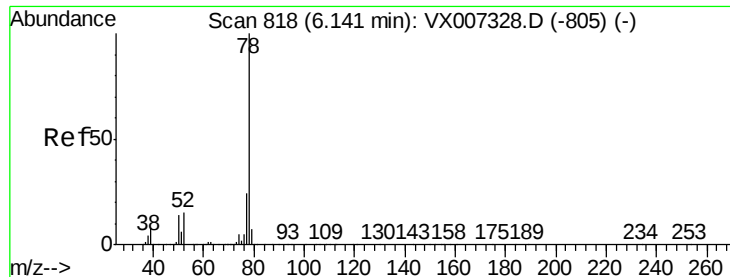


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#40

Benzene

Concen: 309.098 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

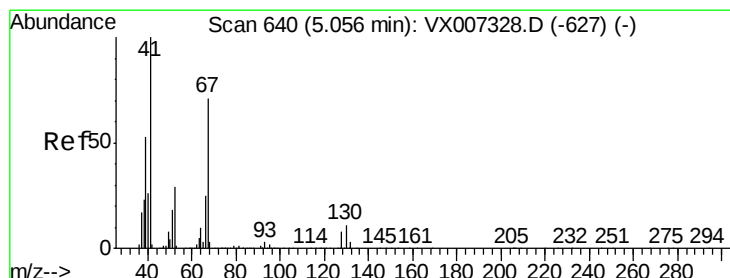
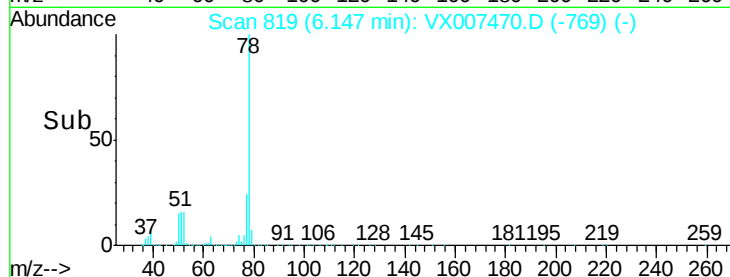
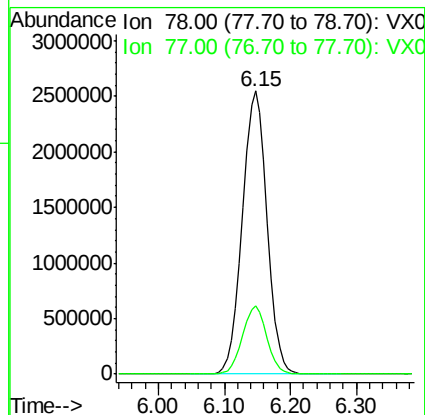
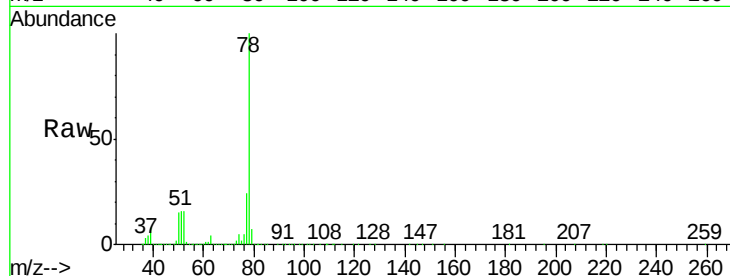
DUP-0503-190207

Tot Ion: 78 Resp: 6600754

Ion Ratio Lower Upper

78 100

77 23.9 19.3 28.9



#41

Methacrylonitrile

Concen: 0.888 ug/l

RT: 5.06 min Scan# 640

Delta R.T. 0.00 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Tgt Ion: 41 Resp: 3488

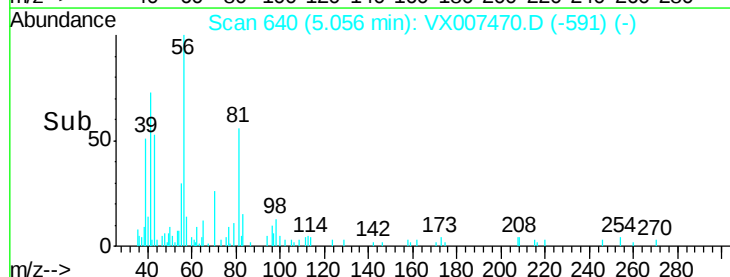
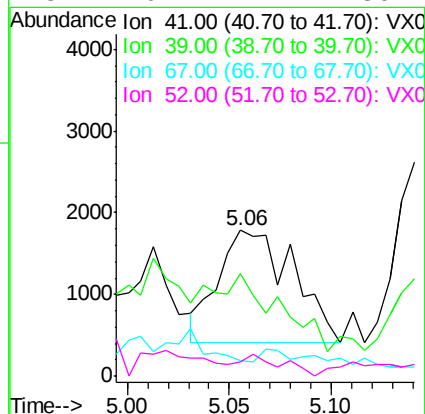
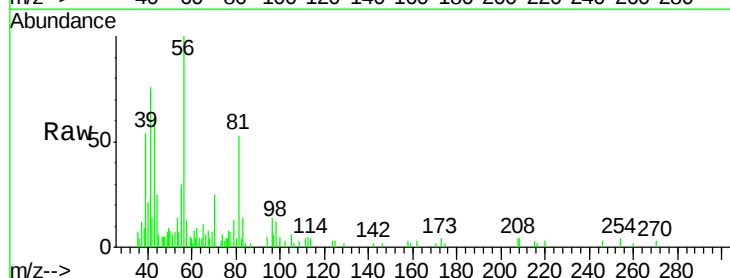
Ion Ratio Lower Upper

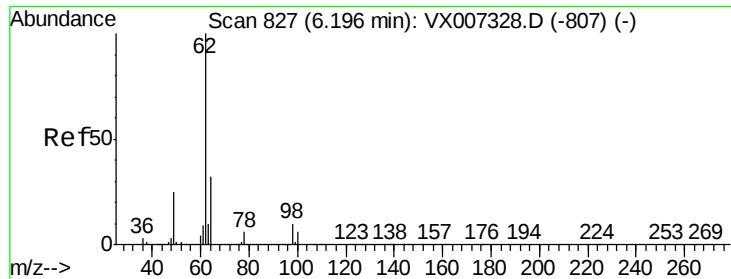
41 100

39 0.0 44.5 66.7#

67 0.0 60.4 90.6#

52 10.7 24.1 36.1#





#42

1,2-Dichloroethane

Concen: 8.518 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.05 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

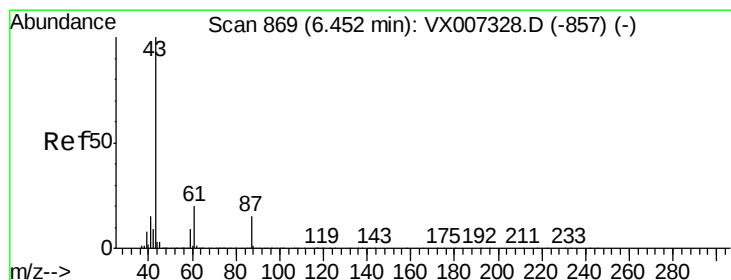
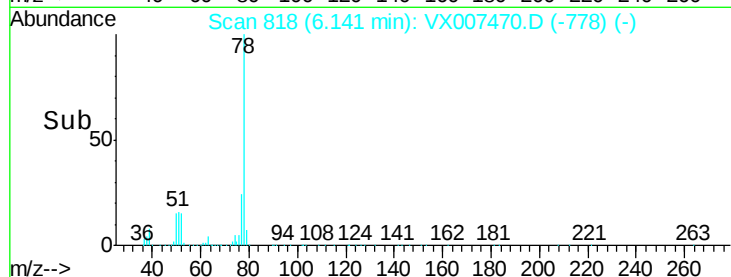
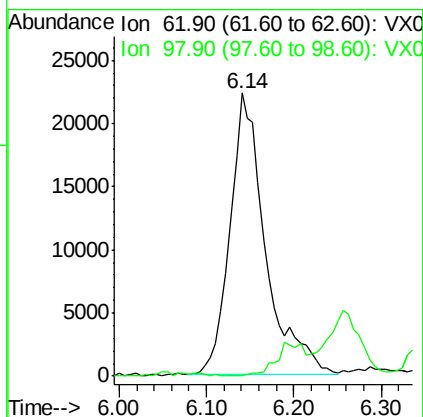
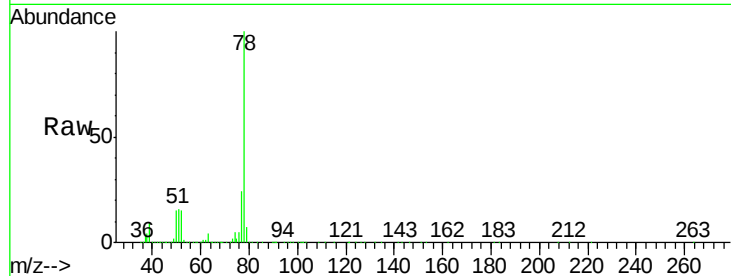
DUP-0503-190207

Tot Ion: 62 Resp: 62935

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.0



#43

Isopropyl Acetate

Concen: 7.364 ug/l

RT: 6.45 min Scan# 868

Delta R.T. -0.01 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

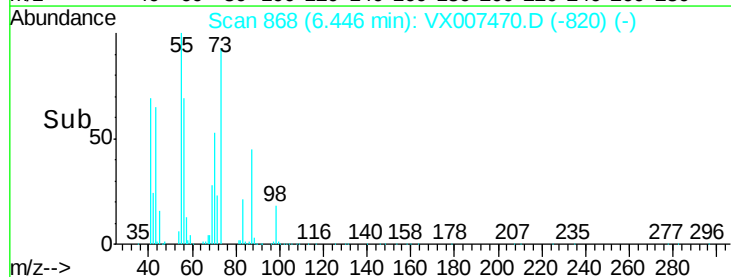
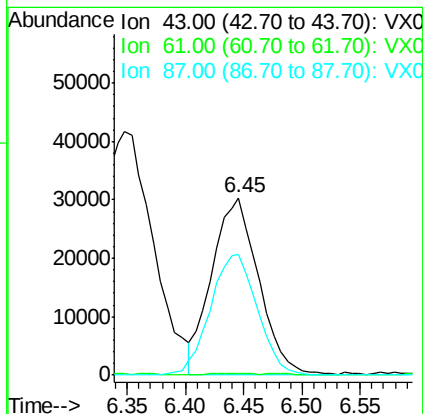
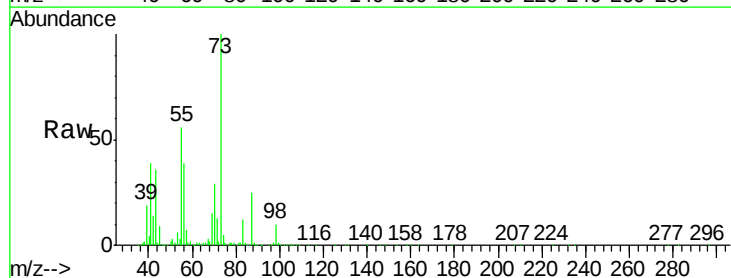
Tgt Ion: 43 Resp: 83296

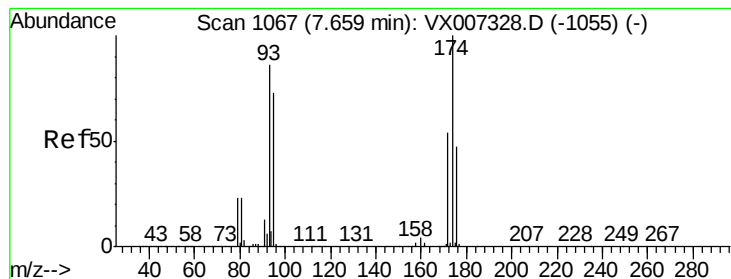
Ion Ratio Lower Upper

43 100

61 0.0 16.1 24.1#

87 69.7 11.5 17.3#





#46

Dibromomethane

Concen: 0.358 ug/l

RT: 7.63 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

DUP-0503-190207

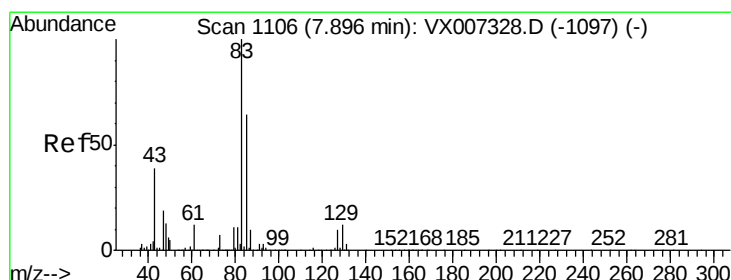
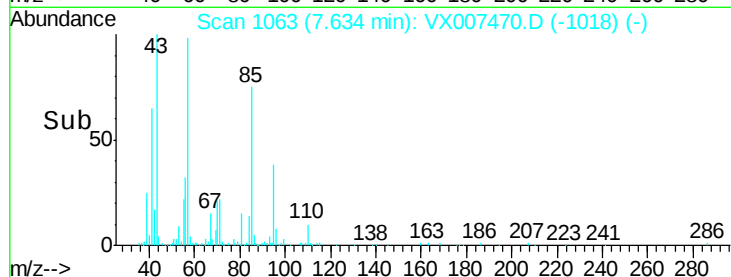
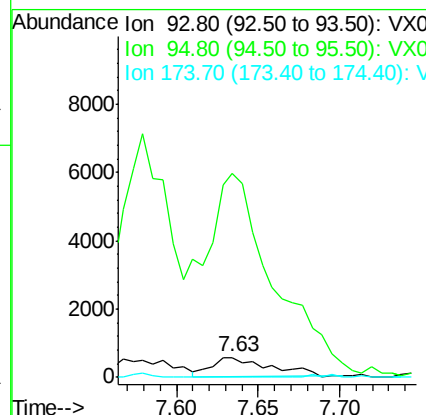
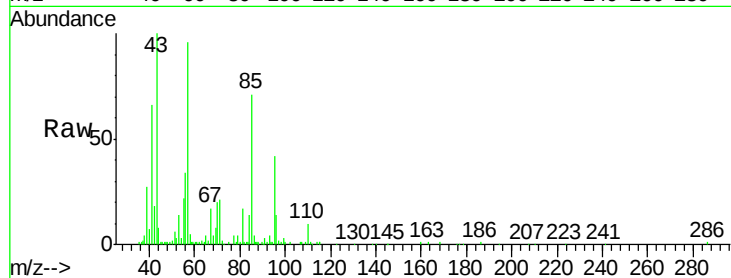
Tot Ion: 93 Resp: 1393

Ion Ratio Lower Upper

93 100

95 1056.6 67.6 101.4#

174 0.0 94.2 141.4#



#47

Bromodichloromethane

Concen: 0.534 ug/l

RT: 7.84 min Scan# 1097

Delta R.T. -0.05 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

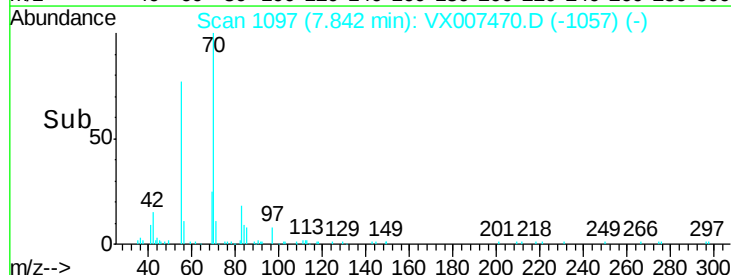
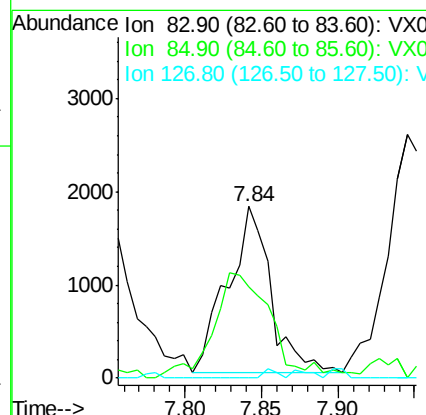
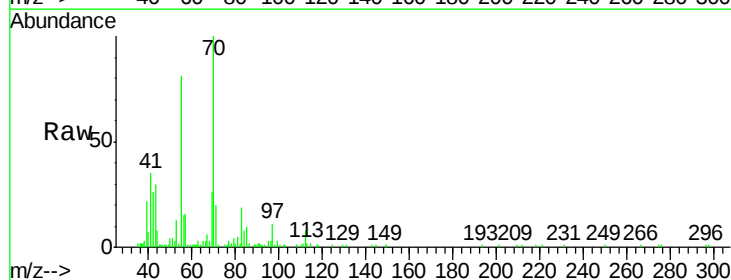
Tgt Ion: 83 Resp: 3521

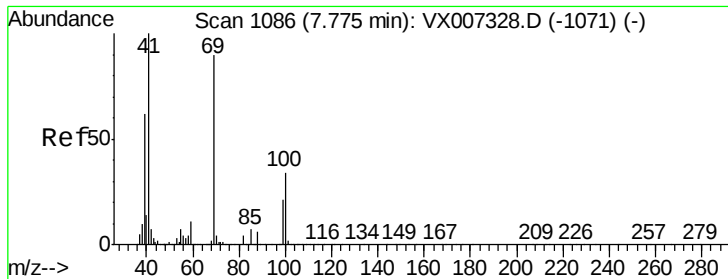
Ion Ratio Lower Upper

83 100

85 51.3 51.4 77.0#

127 0.0 8.1 12.1#





#48

Methvl methacrylate

Concen: 3.280 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.04 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

DUP-0503-190207

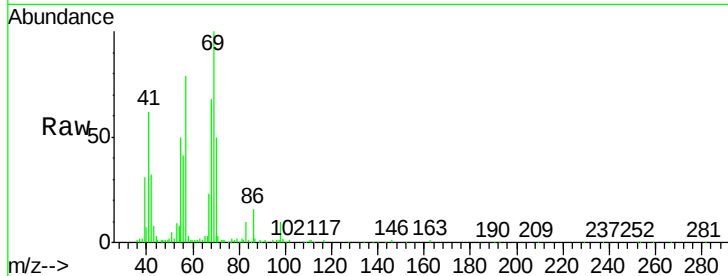
Tot Ion: 41 Resp: 18556

Ion Ratio Lower Upper

41 100

69 187.9 70.2 105.4#

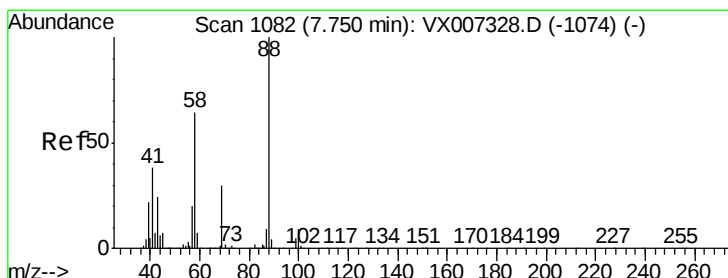
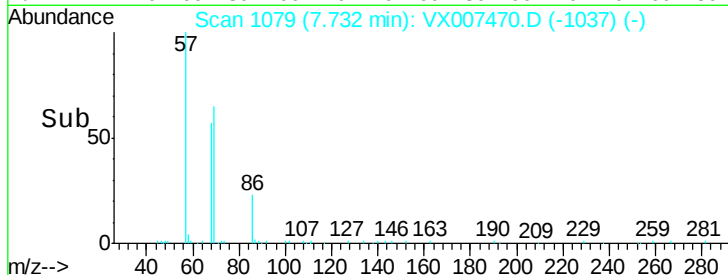
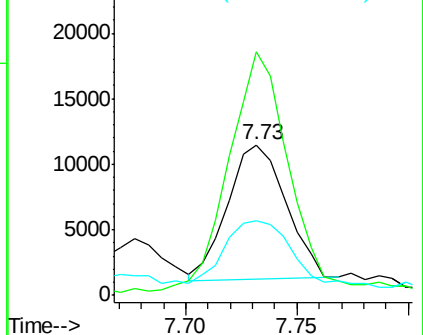
39 58.8 47.4 71.0



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: 9.634 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. -0.01 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

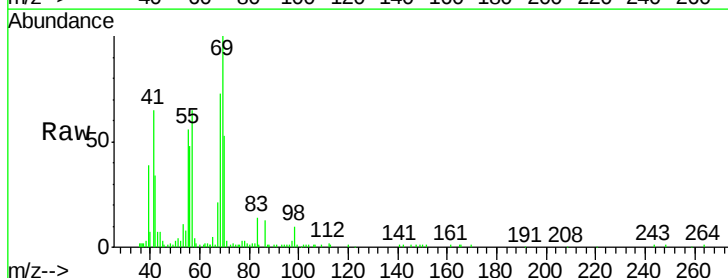
Tgt Ion: 88 Resp: 357

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

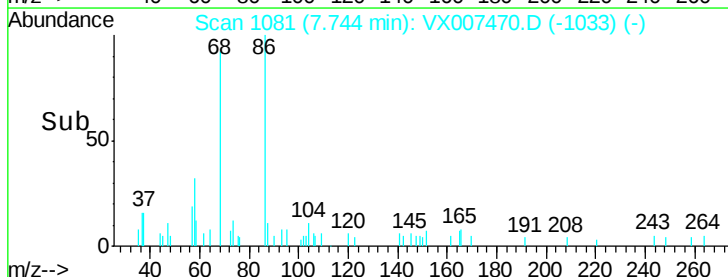
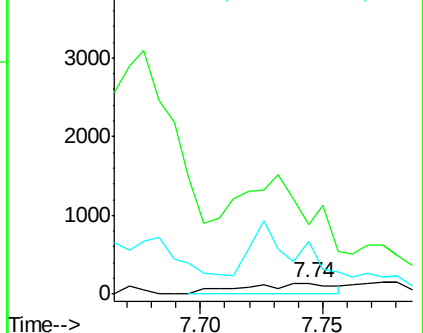
58 252.7 53.0 79.4#

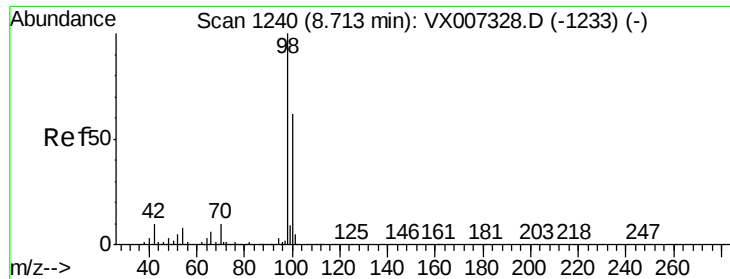


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.311 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

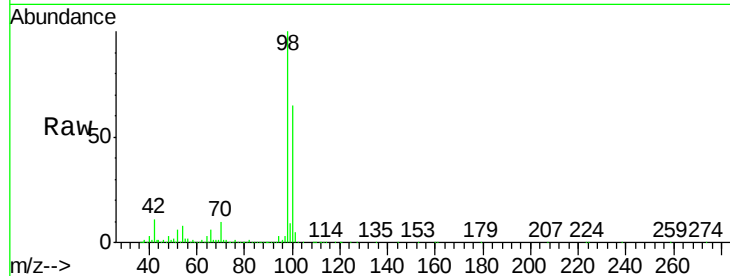
DUP-0503-190207

Tot Ion: 98 Resp: 981320

Ion Ratio Lower Upper

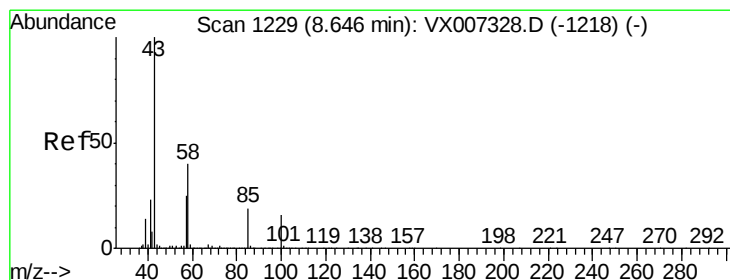
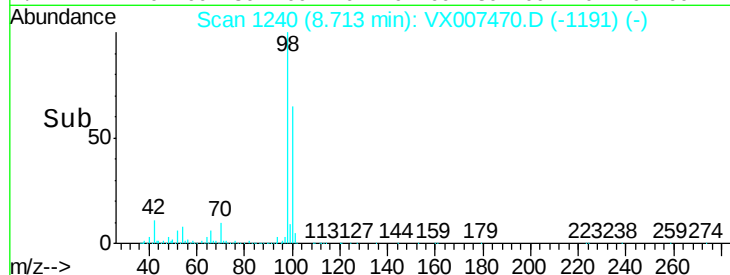
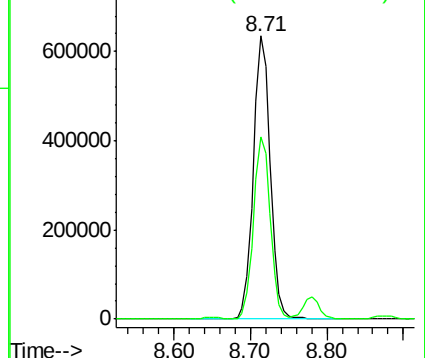
98 100

100 63.9 51.6 77.4



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: 6.982 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VX007470.D

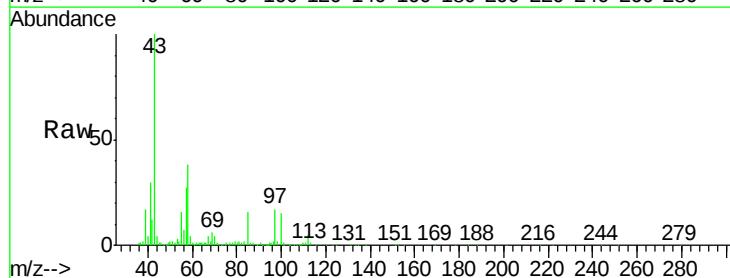
Acq: 11 Feb 2019 16:13

Tgt Ion: 43 Resp: 51993

Ion Ratio Lower Upper

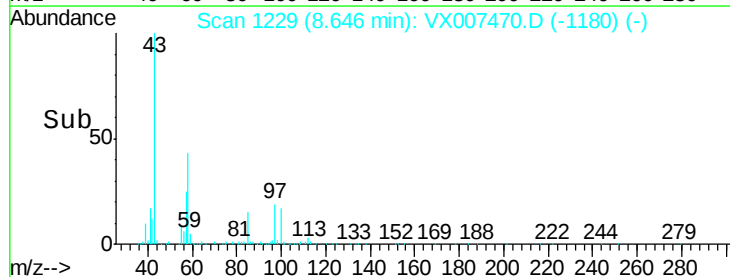
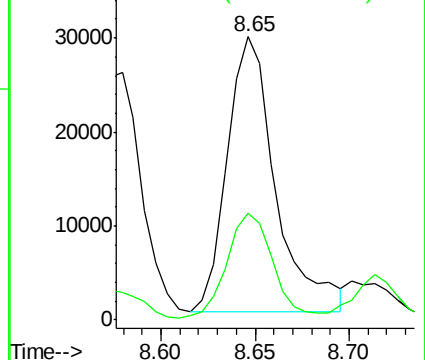
43 100

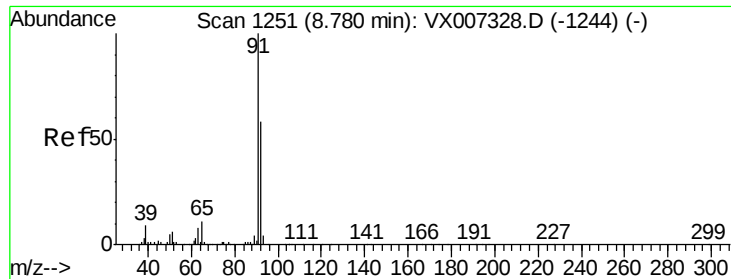
58 36.4 31.2 46.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#52

Toluene

Concen: 8.612 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

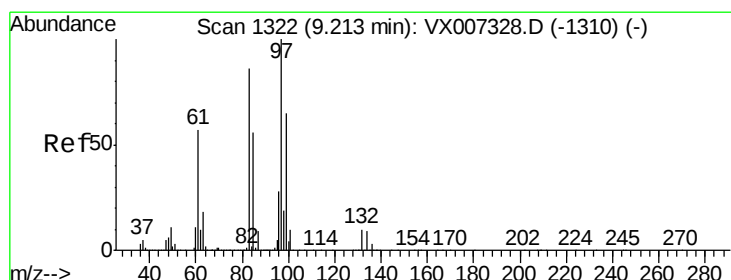
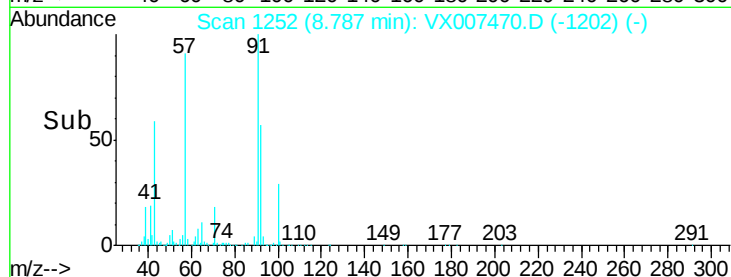
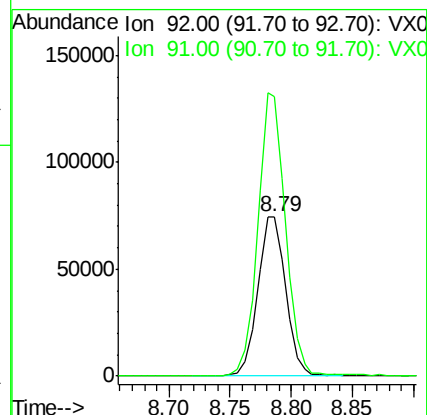
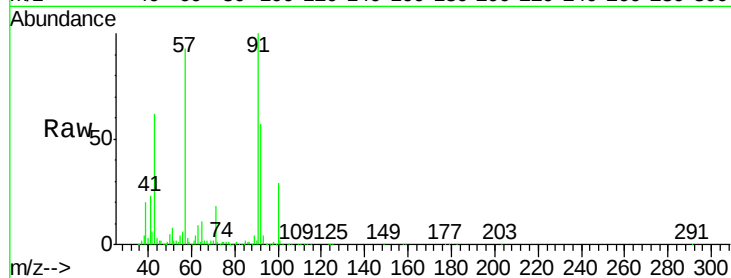
DUP-0503-190207

Tot Ion: 92 Resp: 118656

Ion Ratio Lower Upper

92 100

91 176.5 139.1 208.7



#55

1,1,2-Trichloroethane

Concen: 6.315 ug/l

RT: 9.16 min Scan# 1314

Delta R.T. -0.05 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Tgt Ion: 97 Resp: 36266

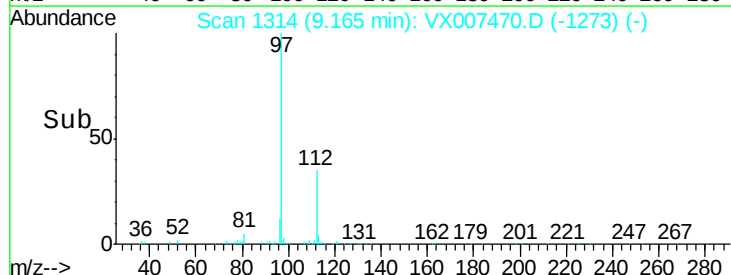
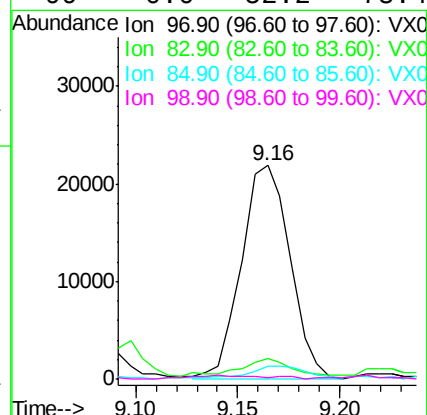
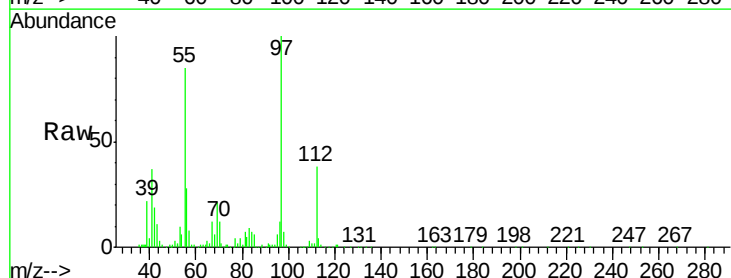
Ion Ratio Lower Upper

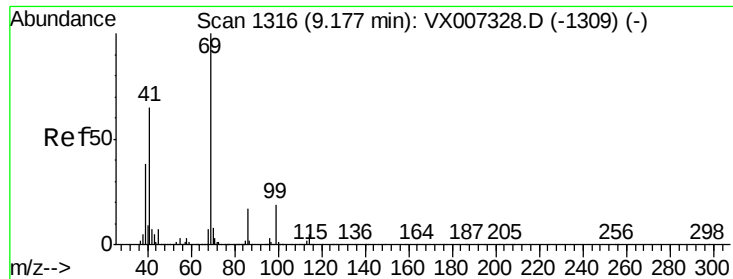
97 100

83 7.9 68.6 102.8#

85 5.4 44.5 66.7#

99 0.0 52.2 78.4#





#56

Ethyl methacrylate

Concen: 0.988 ug/l

RT: 9.16 min Scan# 1313

Delta R.T. -0.02 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

DUP-0503-190207

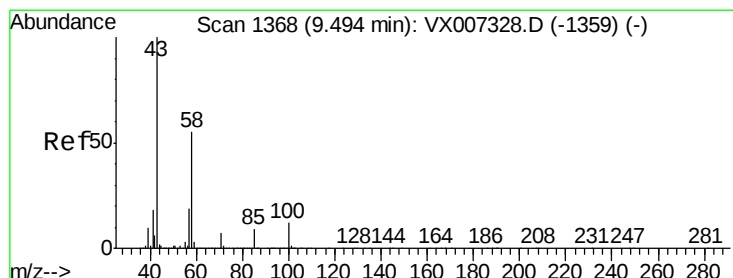
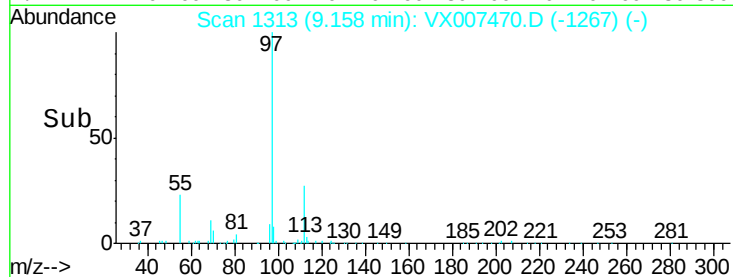
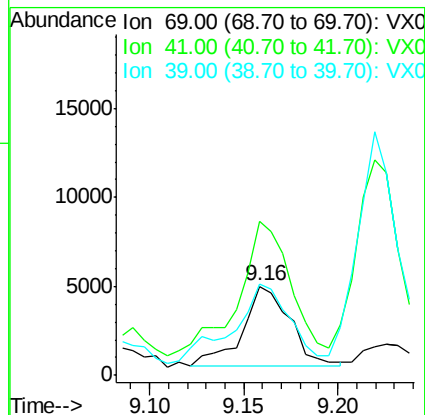
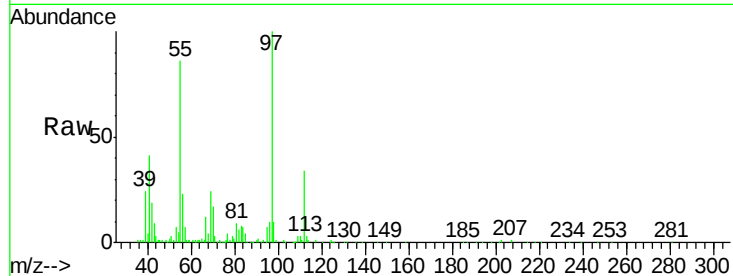
Tot Ion: 69 Resp: 7858

Ion Ratio Lower Upper

69 100

41 186.0 52.1 78.1#

39 120.4 30.1 45.1#



#59

2-Hexanone

Concen: 4.874 ug/l

RT: 9.51 min Scan# 1371

Delta R.T. 0.02 min

Lab File: VX007470.D

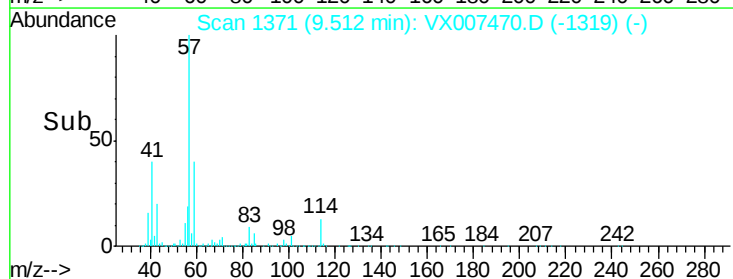
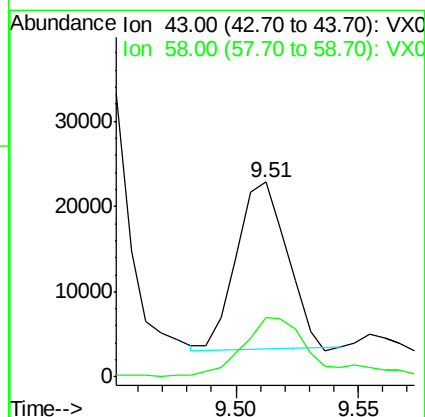
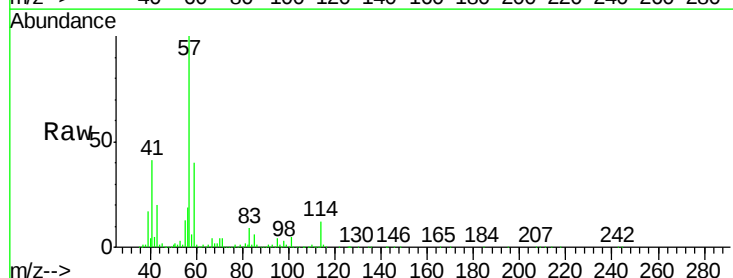
Acq: 11 Feb 2019 16:13

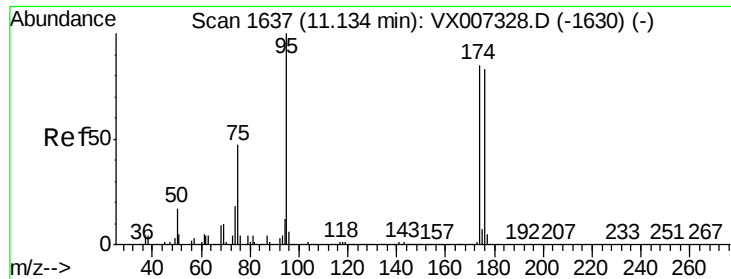
Tgt Ion: 43 Resp: 28241

Ion Ratio Lower Upper

43 100

58 49.5 27.1 81.3





#62

4-Bromofluorobenzene

Concen: 56.367 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

DUP-0503-190207

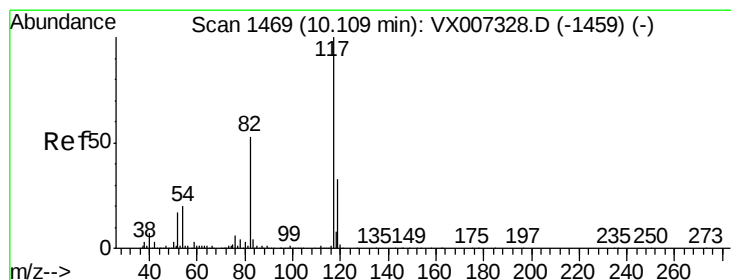
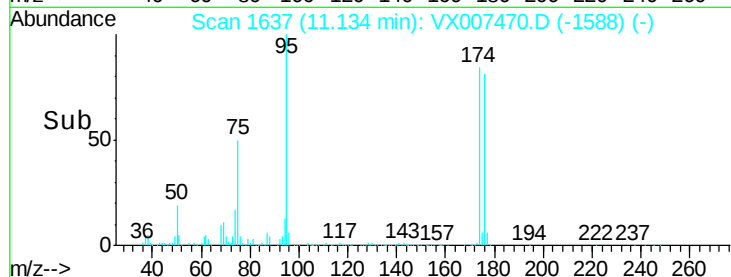
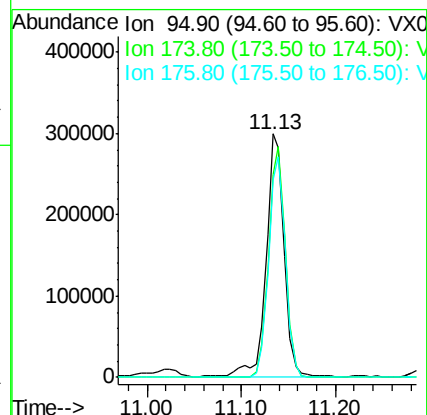
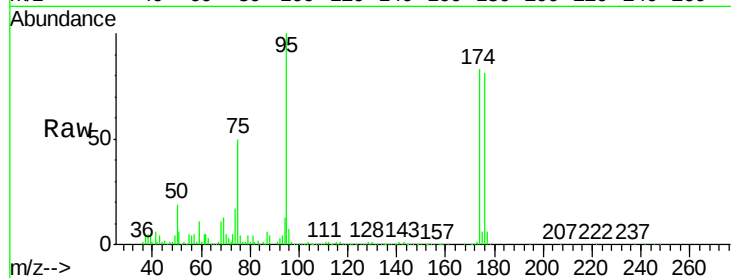
Tot Ion: 95 Resp: 401408

Ion Ratio Lower Upper

95 100

174 88.7 0.0 189.2

176 85.6 0.0 186.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

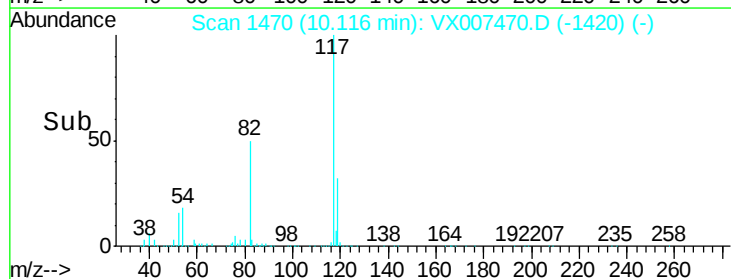
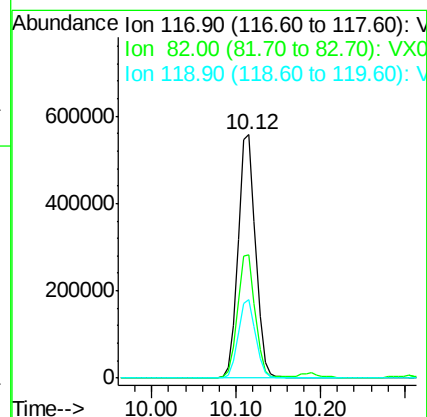
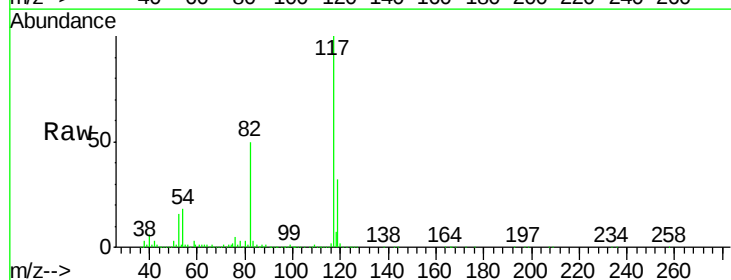
Tgt Ion: 117 Resp: 781089

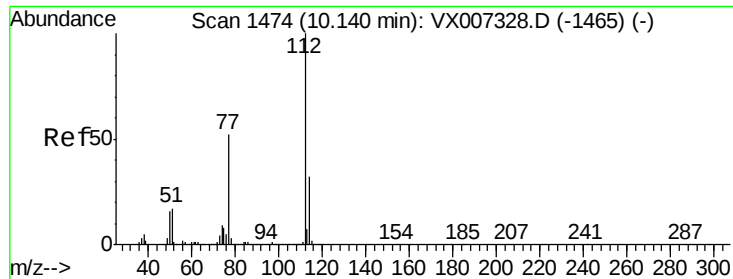
Ion Ratio Lower Upper

117 100

82 50.4 42.1 63.1

119 32.4 26.5 39.7

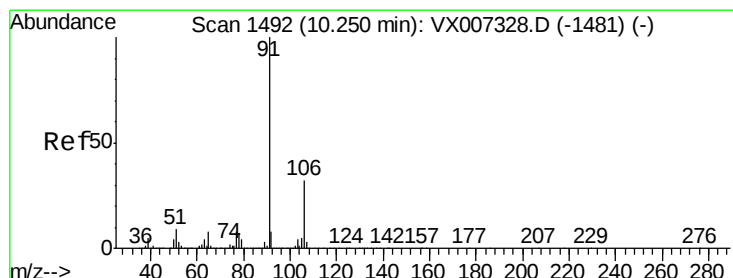
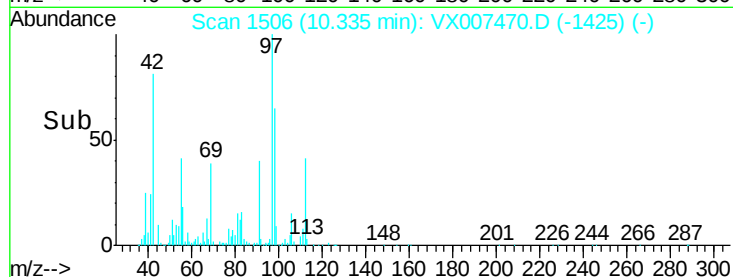
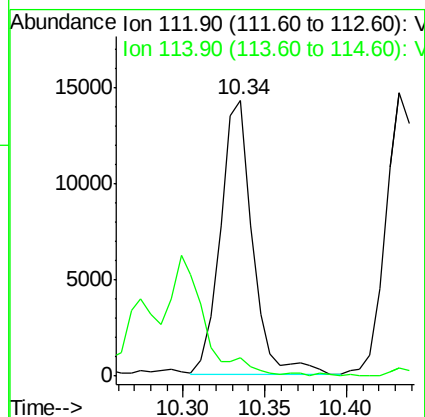
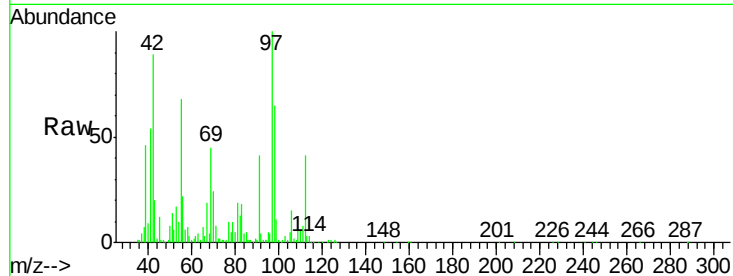




#65
Chlorobenzene
Concen: 1.150 ug/l
RT: 10.34 min Scan# 1506
Delta R.T. 0.20 min
Lab File: VX007470.D
Acq: 11 Feb 2019 16:13

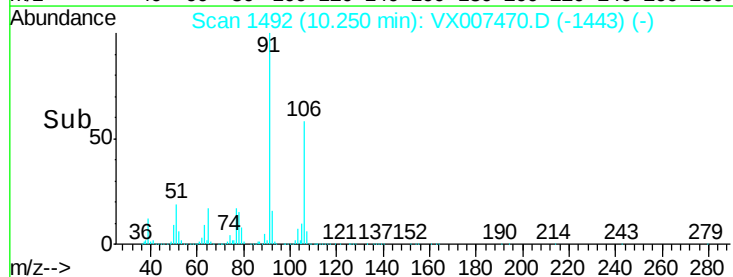
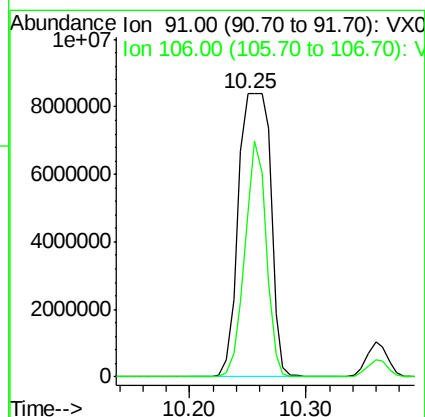
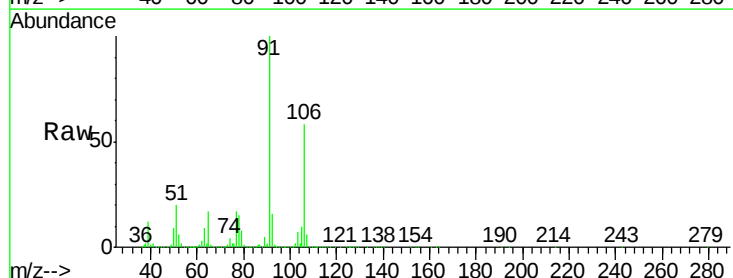
Instrument :
MSVOA_X
ClientSampleId :
DUP-0503-190207

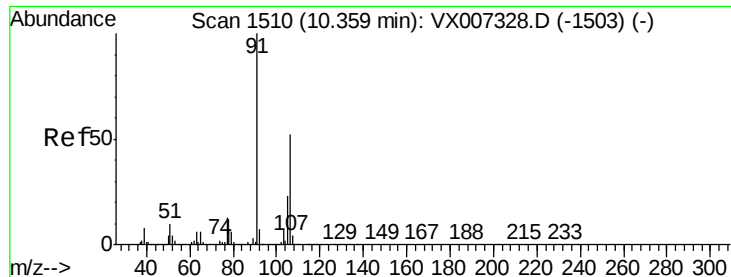
Tot Ion:112 Resp: 19602
Ion Ratio Lower Upper
112 100
114 6.5 25.8 38.6#



#67
Ethyl Benzene
Concen: 592.174 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX007470.D
Acq: 11 Feb 2019 16:13

Tgt Ion: 91 Resp:16254388
Ion Ratio Lower Upper
91 100
106 58.5 25.4 38.0#





#68

m/p-Xylenes

Concen: 58.941 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

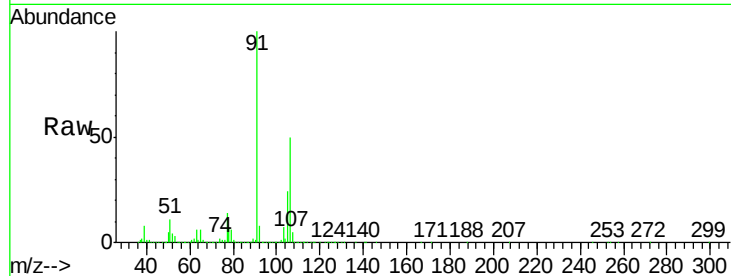
DUP-0503-190207

Tot Ion:106 Resp: 643117

Ion Ratio Lower Upper

106 100

91 198.2 156.6 234.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

2000000

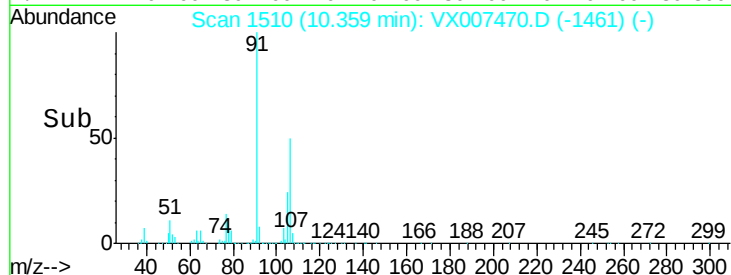
1500000

1000000

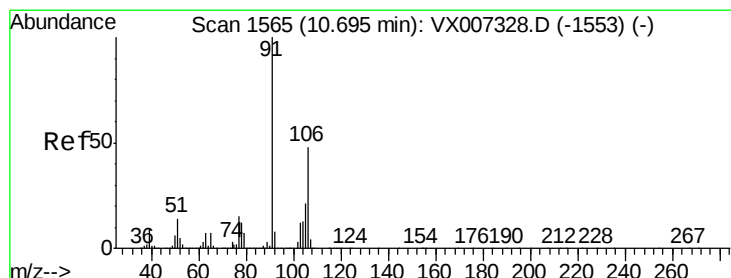
500000

0

10.30 10.35 10.40 10.45



Time-->



#69

o-Xylene

Concen: 75.400 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VX007470.D

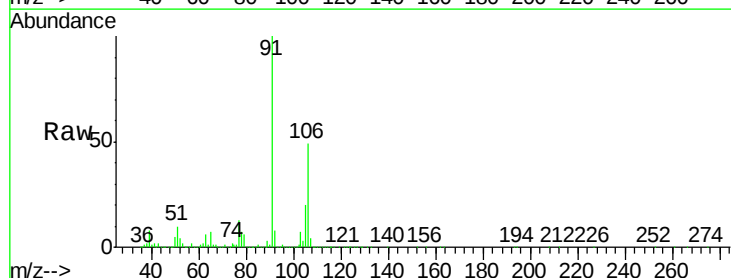
Acq: 11 Feb 2019 16:13

Tgt Ion:106 Resp: 791645

Ion Ratio Lower Upper

106 100

91 208.9 102.9 308.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

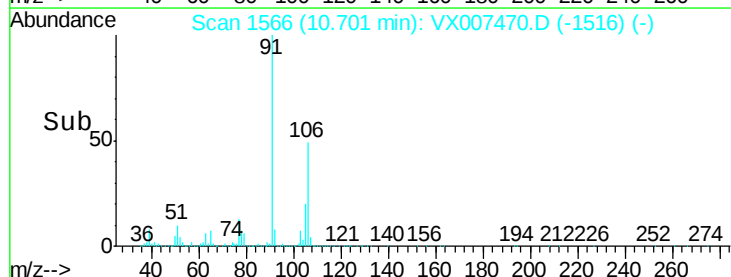
1500000

1000000

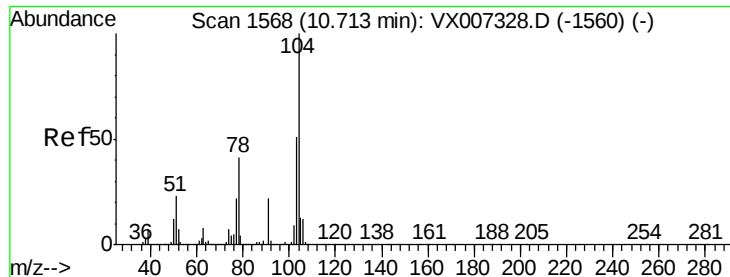
500000

0

10.60 10.70 10.80



Time-->



#70

Stvrene

Concen: 4.230 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. -0.01 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

DUP-0503-190207

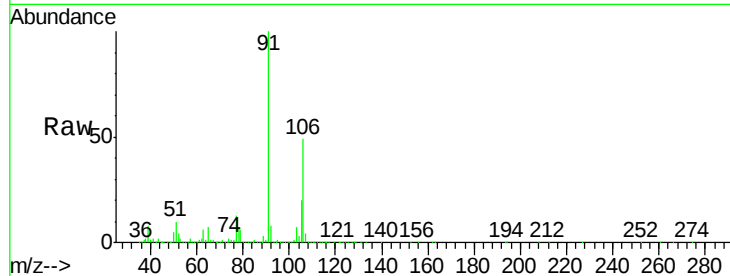
Tot Ion:104 Resp: 72031

Ion Ratio Lower Upper

104 100

78 175.4 38.3 57.5#

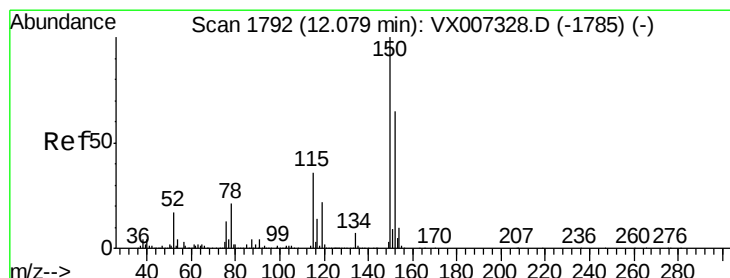
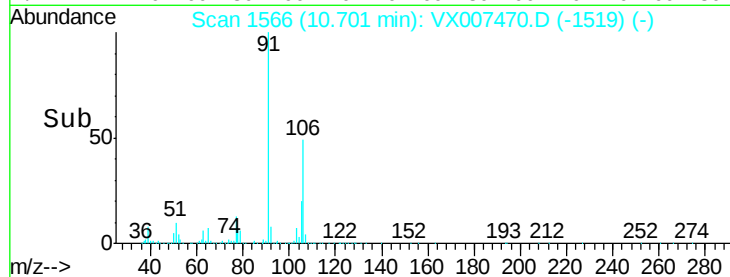
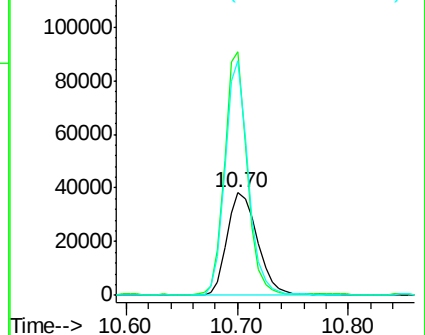
103 174.5 44.6 67.0#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

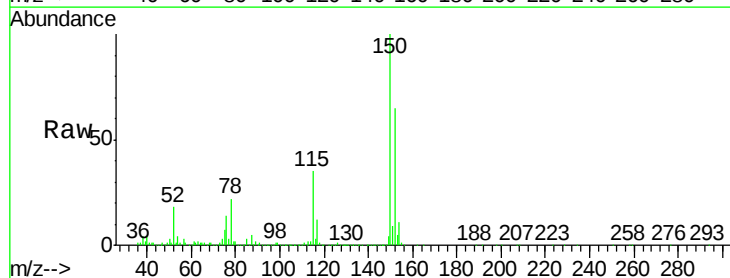
Tgt Ion:152 Resp: 409360

Ion Ratio Lower Upper

152 100

115 55.5 38.0 114.0

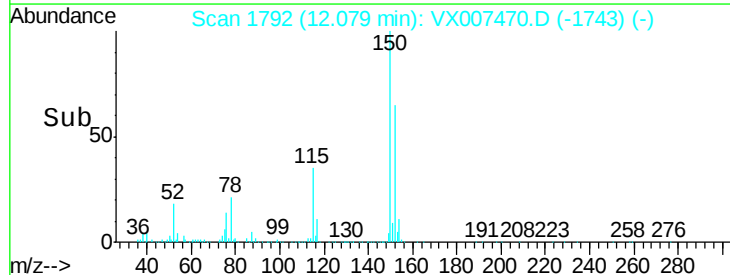
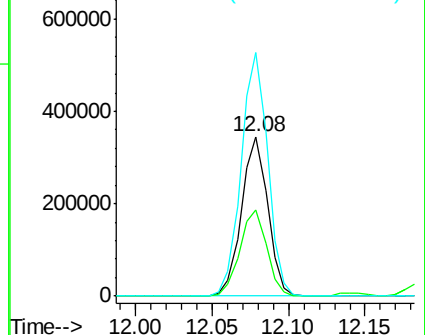
150 154.7 0.0 346.4

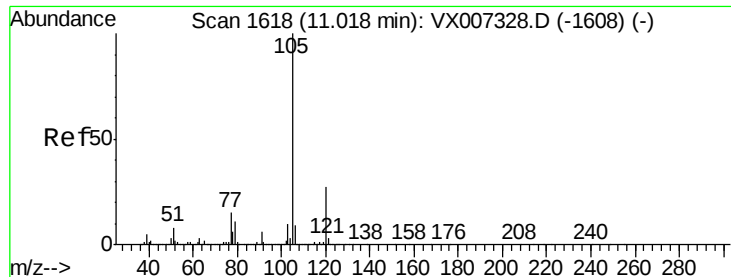


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 114.458 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

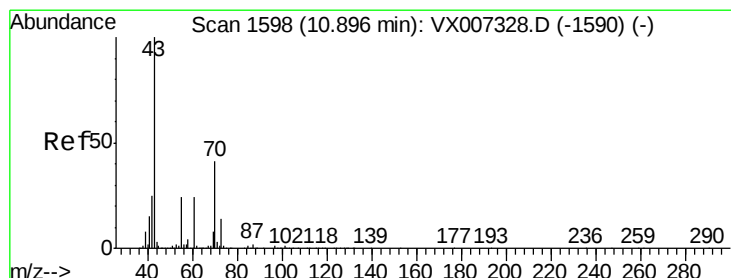
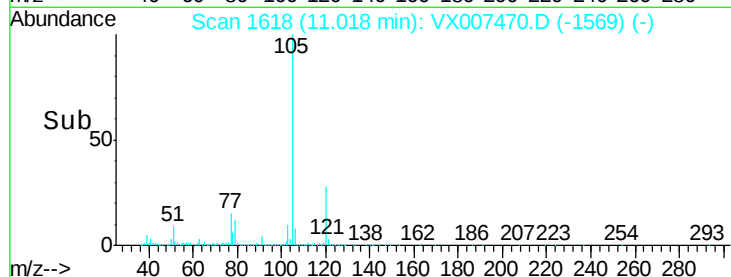
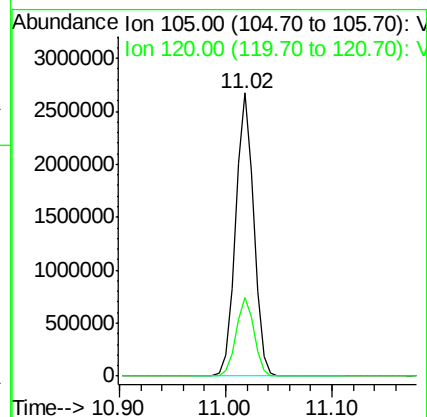
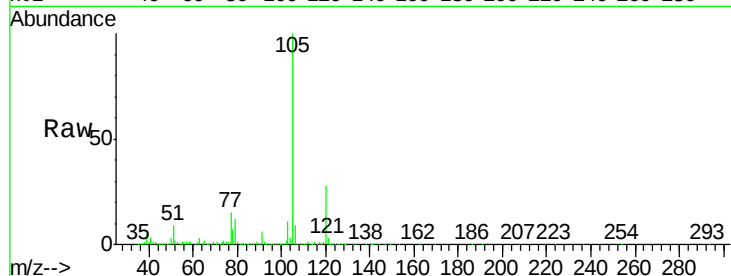
DUP-0503-190207

Tot Ion:105 Resp: 3184018

Ion Ratio Lower Upper

105 100

120 27.8 13.6 40.7



#74

N-ethyl acetate

Concen: 0.812 ug/l

RT: 10.90 min Scan# 1599

Delta R.T. 0.01 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Tgt Ion: 43 Resp: 8740

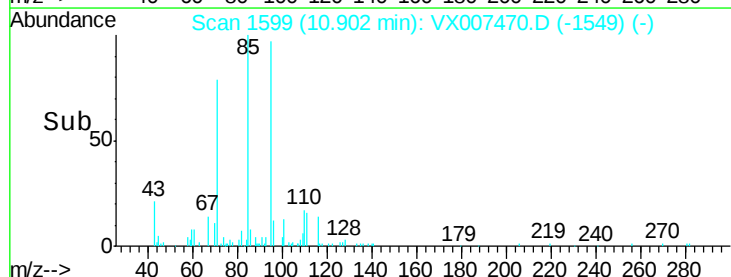
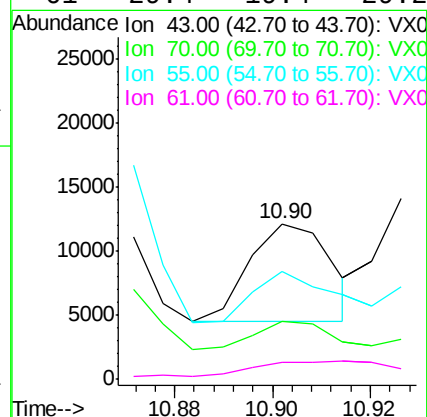
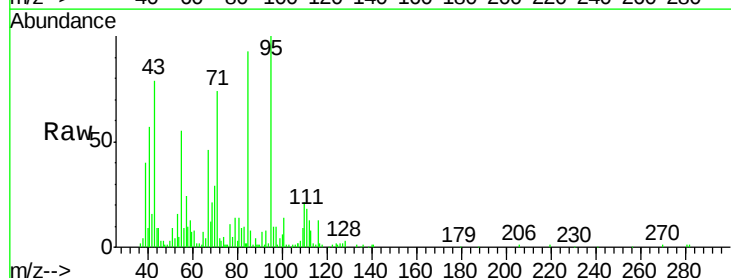
Ion Ratio Lower Upper

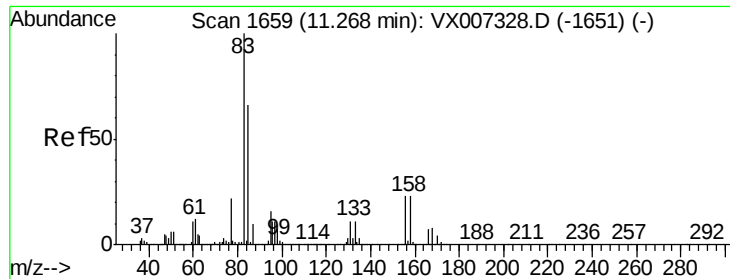
43 100

70 39.5 33.8 50.6

55 51.6 19.5 29.3#

61 29.4 19.4 29.2#





#75

1,1,2,2-Tetrachloroethane

Concen: 6.817 ug/l

RT: 11.21 min Scan# 1650

Delta R.T. -0.05 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

DUP-0503-190207

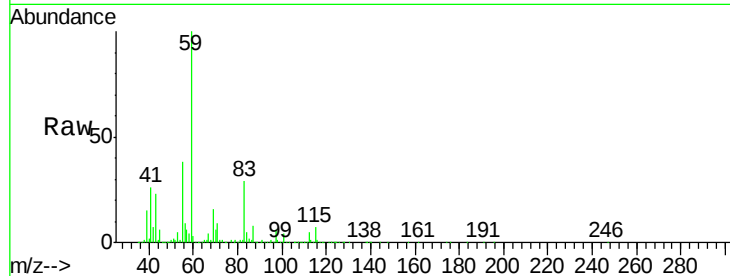
Tot Ion: 83 Resp: 57797

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

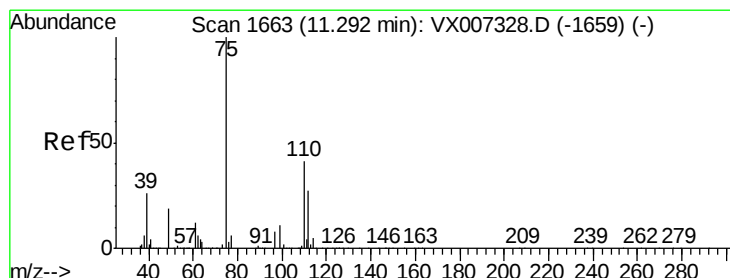
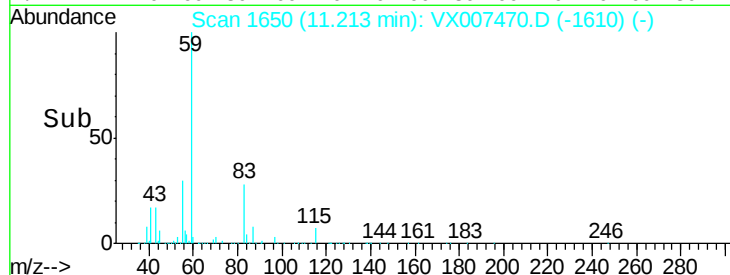
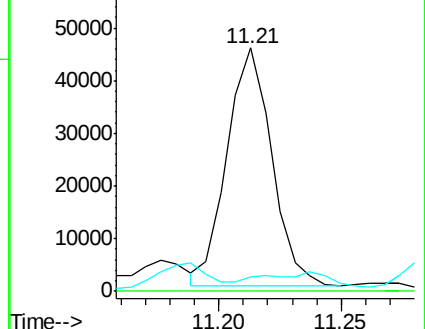
85 0.0 32.8 98.3#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 3.082 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.07 min

Lab File: VX007470.D

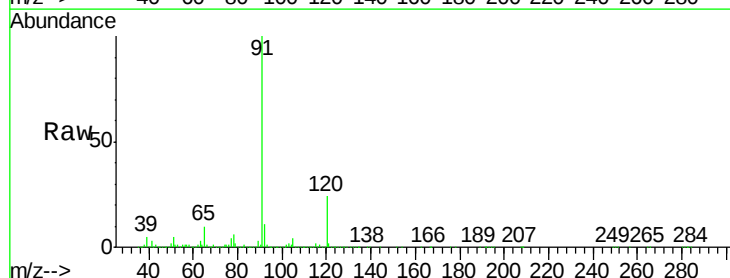
Acq: 11 Feb 2019 16:13

Tgt Ion: 75 Resp: 24541

Ion Ratio Lower Upper

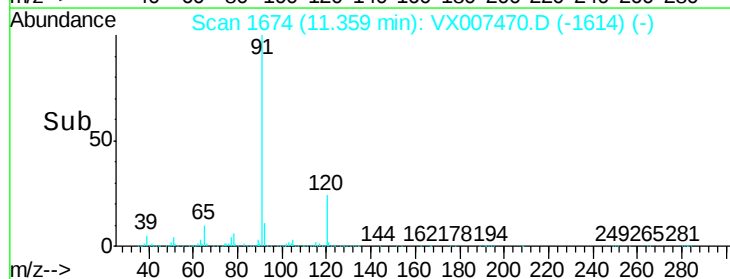
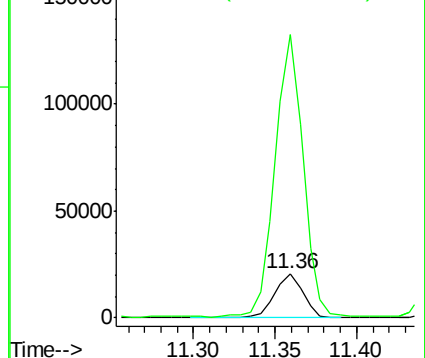
75 100

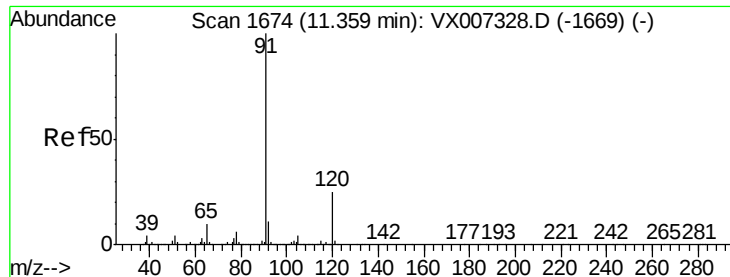
77 636.6 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

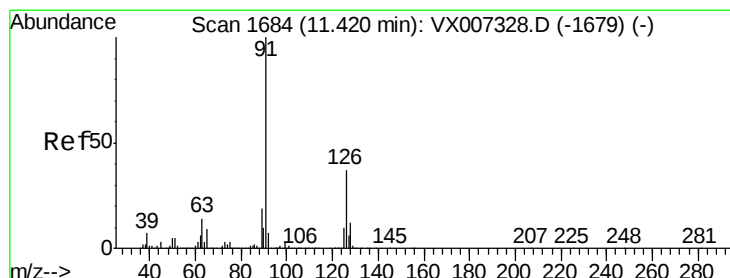
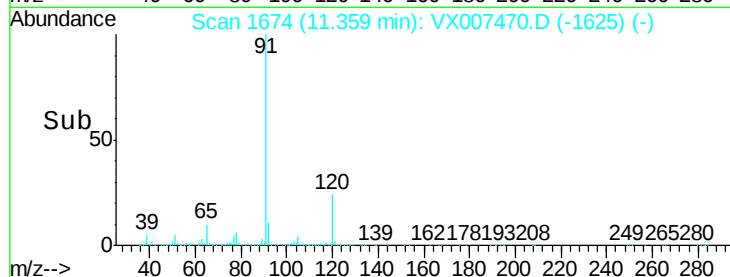
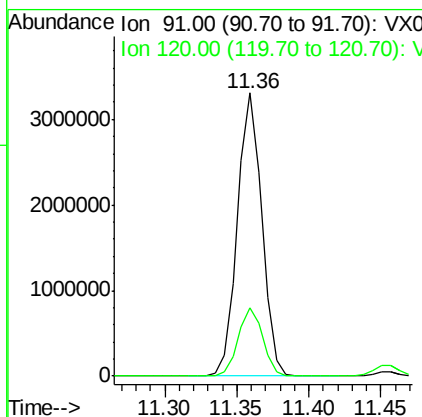
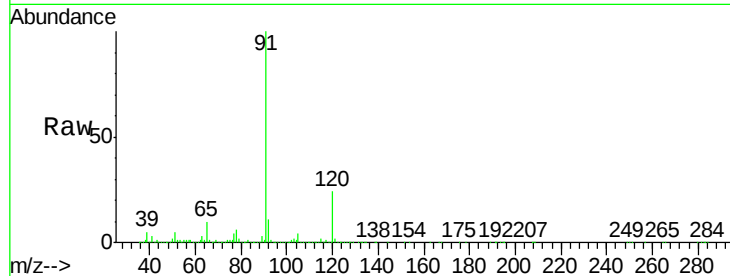




#78
n-propylbenzene
Concen: 128.575 ug/l
RT: 11.36 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VX007470.D
Acq: 11 Feb 2019 16:13

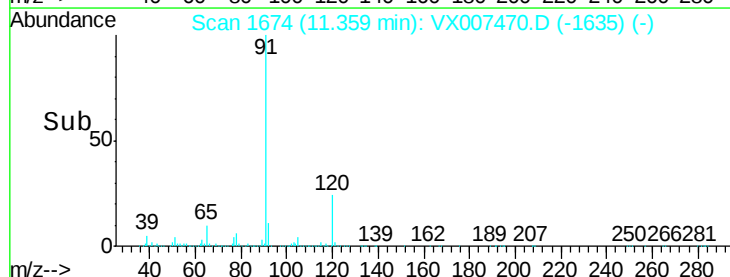
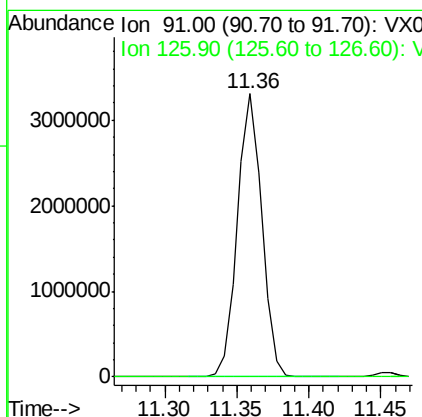
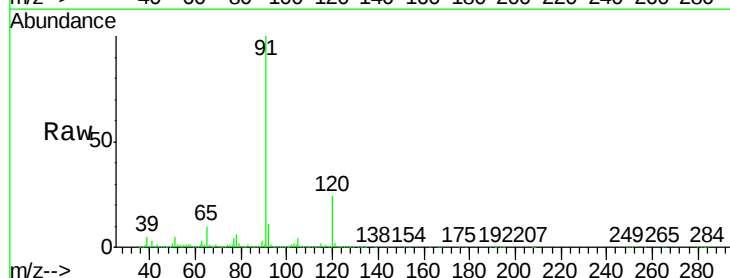
Instrument :
MSVOA_X
ClientSampleId :
DUP-0503-190207

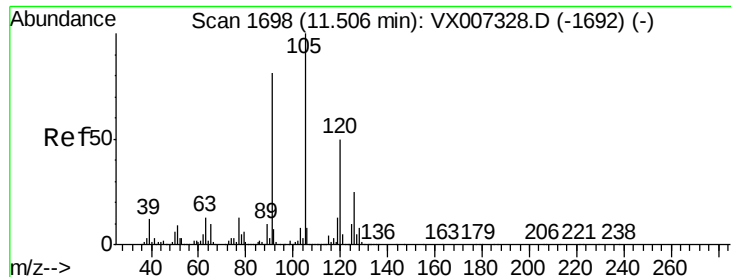
Tot Ion: 91 Resp: 3922094
Ion Ratio Lower Upper
91 100
120 24.1 12.4 37.2



#79
2-Chlorotoluene
Concen: 211.897 ug/l
RT: 11.36 min Scan# 1674
Delta R.T. -0.06 min
Lab File: VX007470.D
Acq: 11 Feb 2019 16:13

Tgt Ion: 91 Resp: 3922094
Ion Ratio Lower Upper
91 100
126 0.4 18.7 56.1#





#80

1,3,5-Trimethylbenzene

Concen: 14.532 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

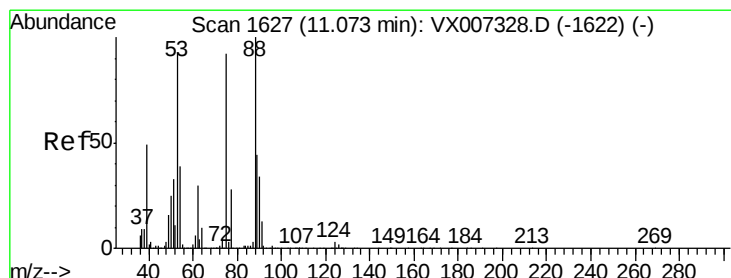
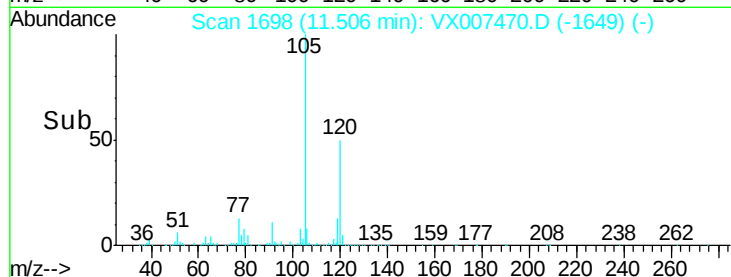
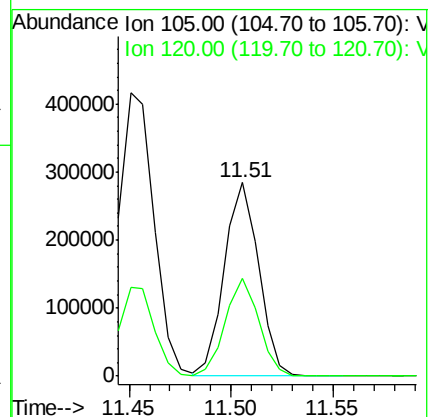
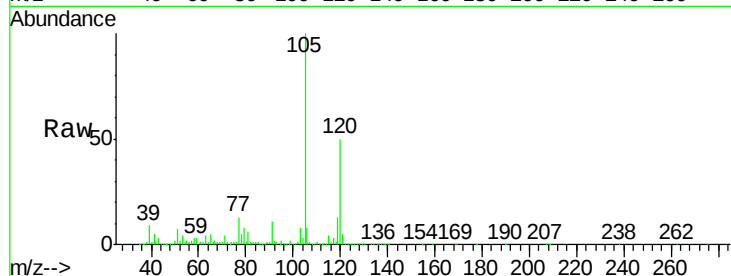
DUP-0503-190207

Tot Ion:105 Resp: 330733

Ion Ratio Lower Upper

105 100

120 49.6 25.3 75.8



#81

trans-1,4-Dichloro-2-butene

Concen: 16.994 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.05 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

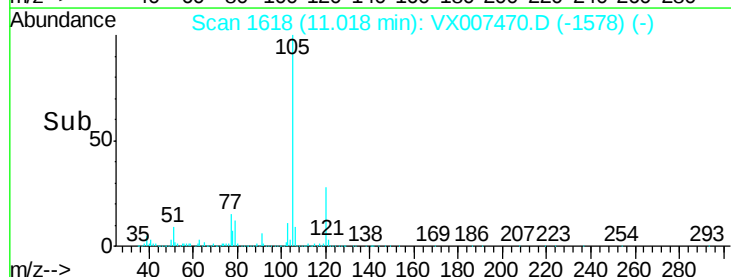
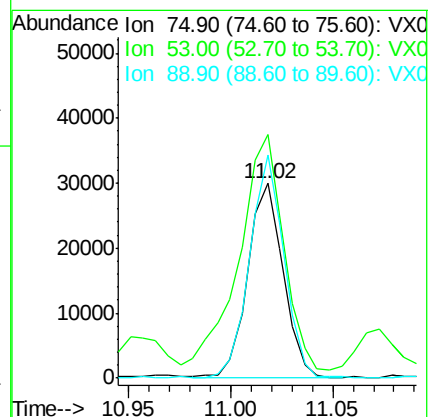
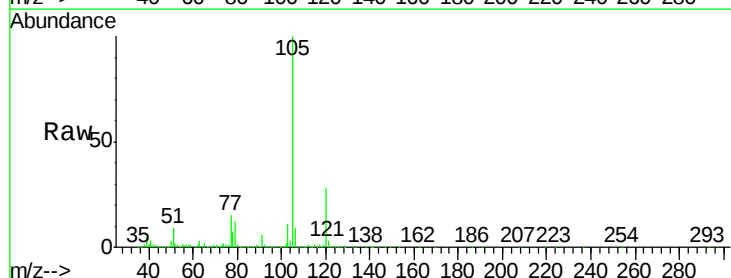
Tgt Ion: 75 Resp: 35923

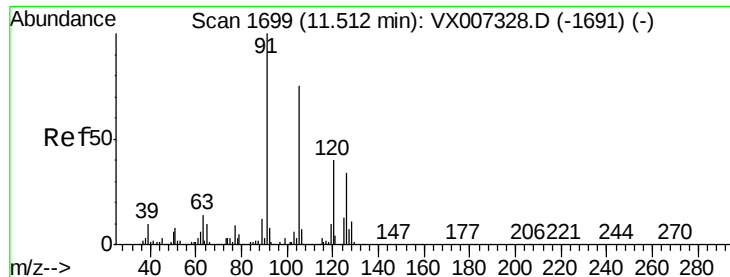
Ion Ratio Lower Upper

75 100

53 152.0 81.0 121.6#

89 110.6 41.4 62.0#





#82

4-Chlorotoluene

Concen: 183.127 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.15 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

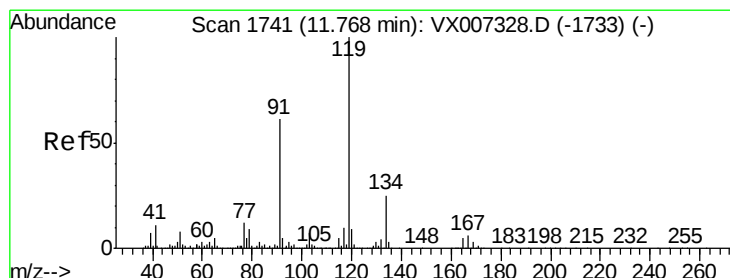
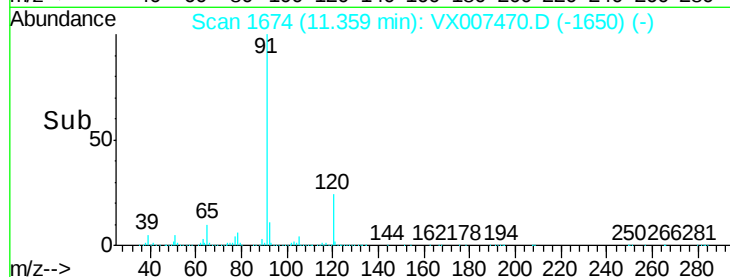
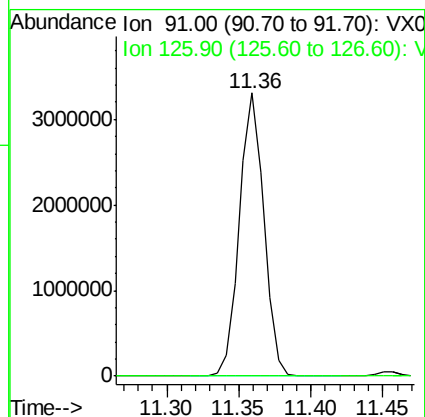
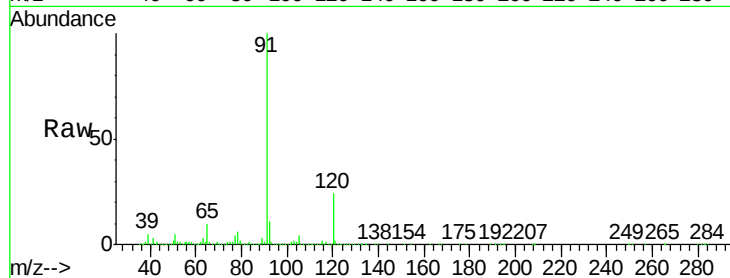
DUP-0503-190207

Tot Ion: 91 Resp: 3922094

Ion Ratio Lower Upper

91 100

126 0.4 16.2 48.5#



#83

tert-Butylbenzene

Concen: 1.331 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

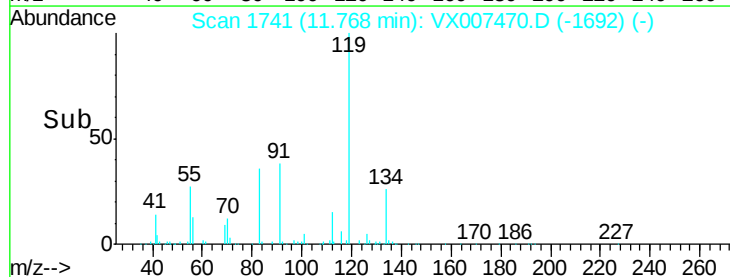
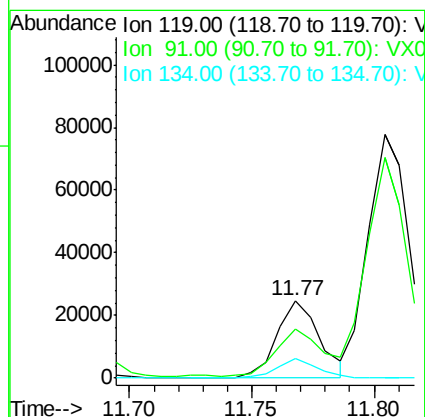
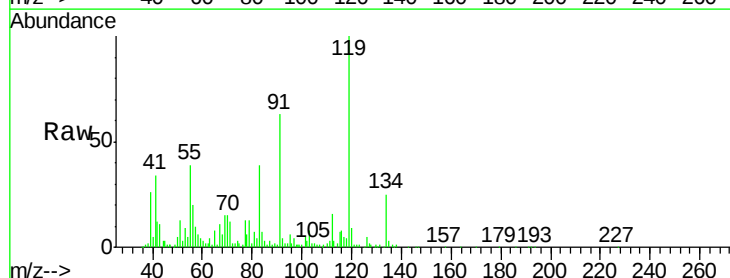
Tgt Ion: 119 Resp: 30001

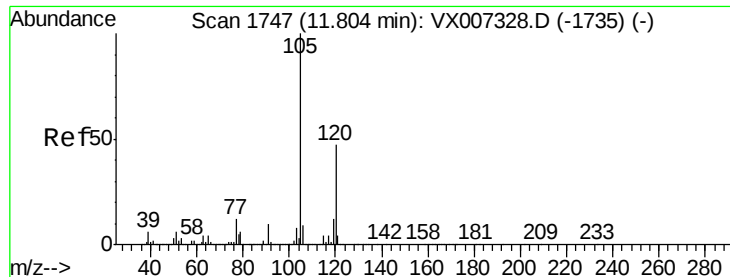
Ion Ratio Lower Upper

119 100

91 69.4 28.5 85.6

134 24.6 12.0 36.0





#84

1,2,4-Trimethylbenzene

Concen: 33.004 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. -0.00 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

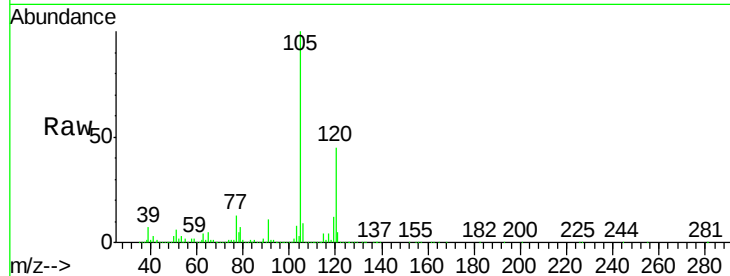
DUP-0503-190207

Tot Ion:105 Resp: 762571

Ion Ratio Lower Upper

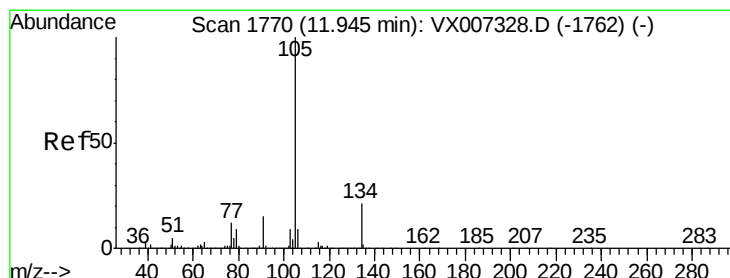
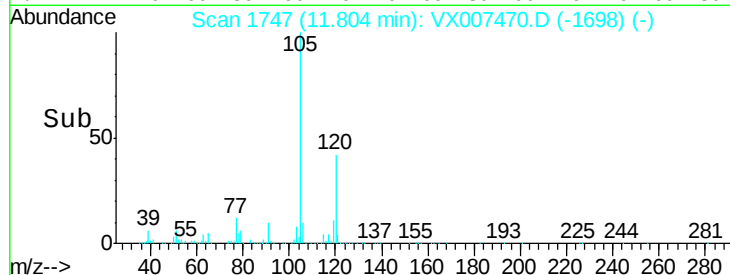
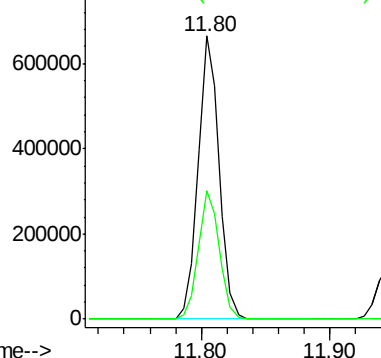
105 100

120 45.8 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 5.386 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX007470.D

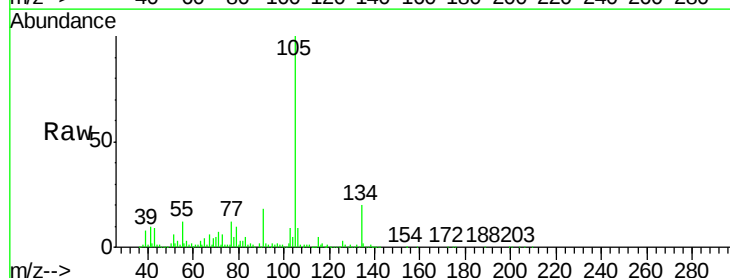
Acq: 11 Feb 2019 16:13

Tgt Ion:105 Resp: 146877

Ion Ratio Lower Upper

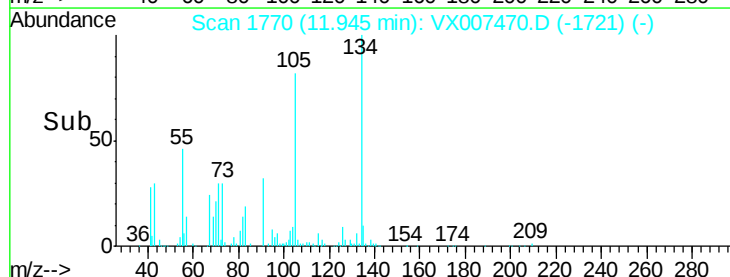
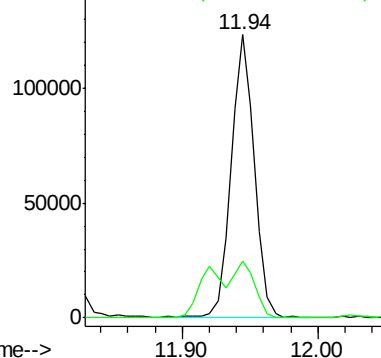
105 100

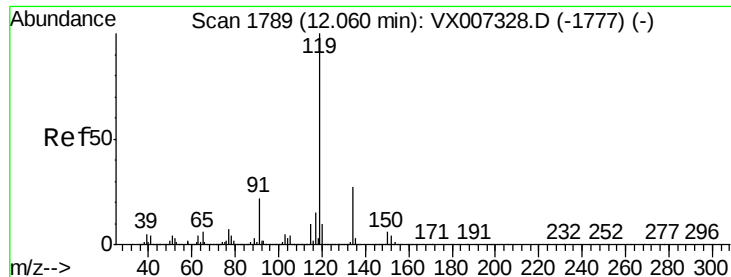
134 18.9 10.6 31.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

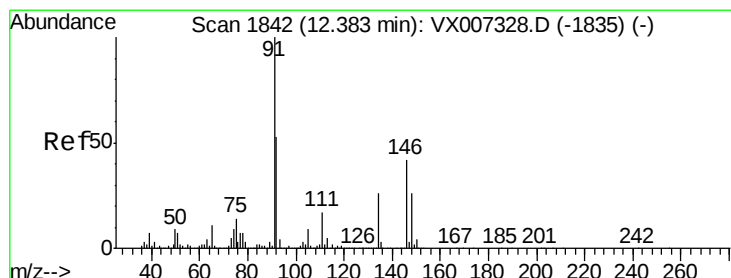
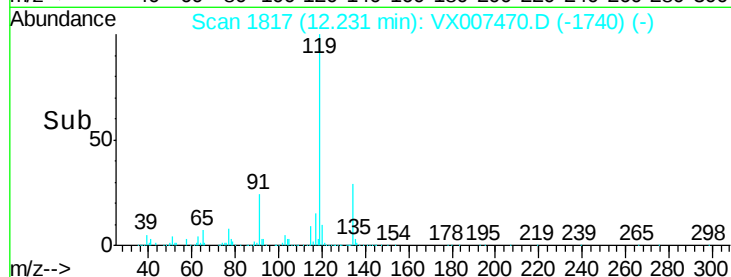
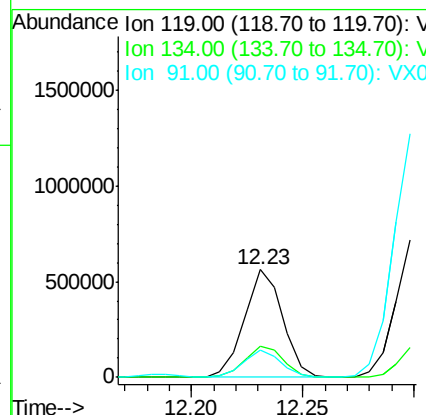
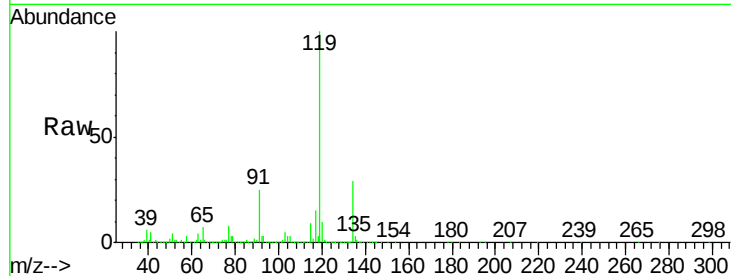




#86
 p-Isopropyltoluene
 Concen: 27.268 ug/l
 RT: 12.23 min Scan# 1817
 Delta R.T. 0.17 min
 Lab File: VX007470.D
 Acq: 11 Feb 2019 16:13

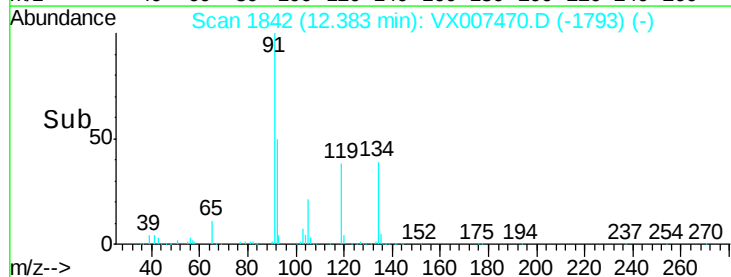
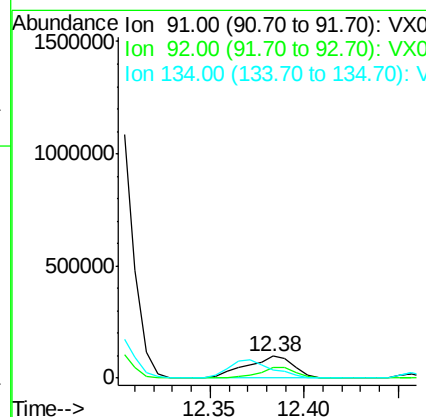
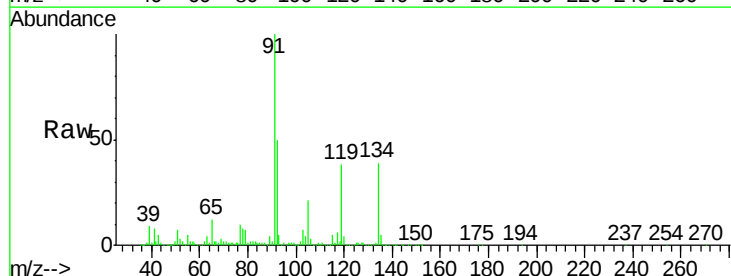
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0503-190207

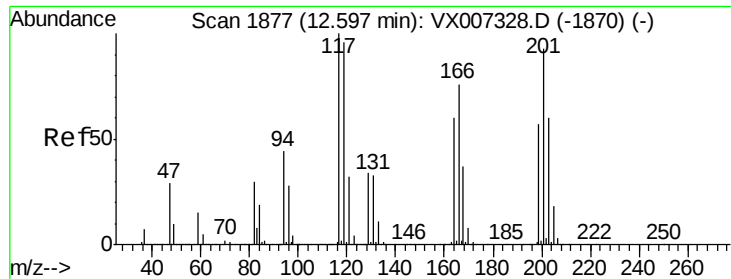
Tot Ion: 119 Resp: 671273
 Ion Ratio Lower Upper
 119 100
 134 29.4 13.7 41.1
 91 24.6 11.2 33.5



#89
 n-Butylbenzene
 Concen: 7.831 ug/l
 RT: 12.38 min Scan# 1842
 Delta R.T. -0.00 min
 Lab File: VX007470.D
 Acq: 11 Feb 2019 16:13

Tgt Ion: 91 Resp: 165838
 Ion Ratio Lower Upper
 91 100
 92 37.8 26.3 78.9
 134 79.2 13.9 41.6#





#90

Hexachloroethane

Concen: 83.995 ug/l

RT: 12.70 min Scan# 1894

Delta R.T. 0.10 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

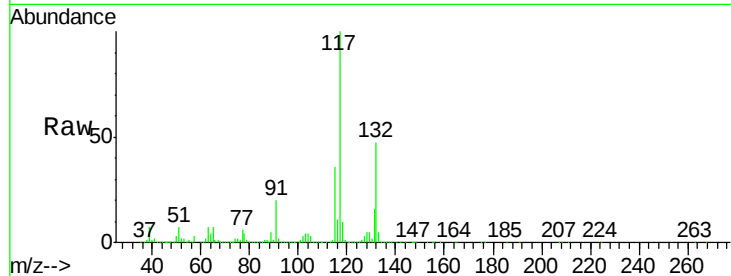
DUP-0503-190207

Tot Ion:117 Resp: 309469

Ion Ratio Lower Upper

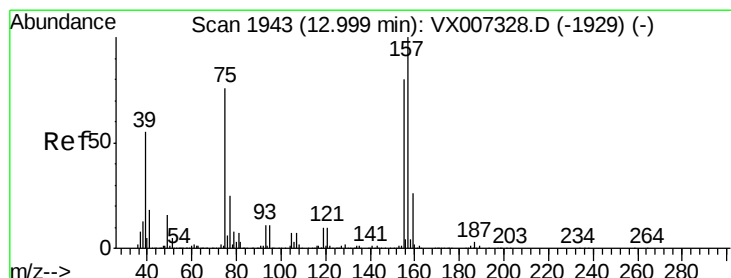
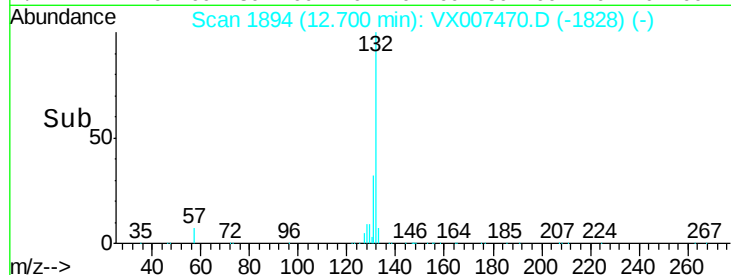
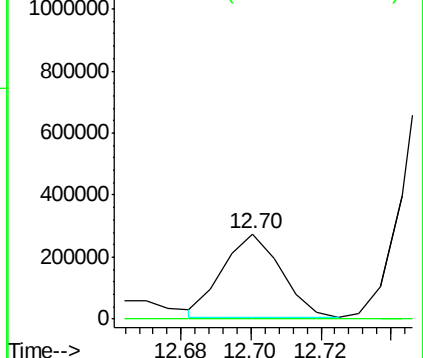
117 100

201 0.0 44.9 134.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.585 ug/l

RT: 12.97 min Scan# 1939

Delta R.T. -0.02 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

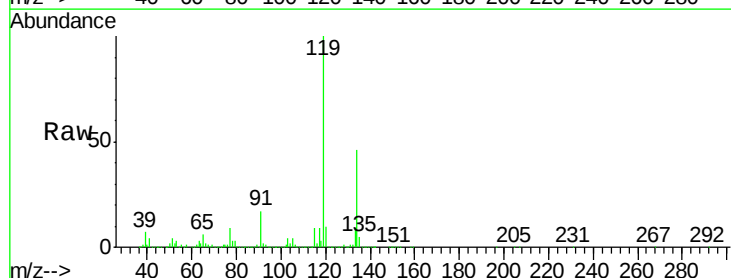
Tgt Ion: 75 Resp: 8082

Ion Ratio Lower Upper

75 100

155 1.1 49.6 149.0#

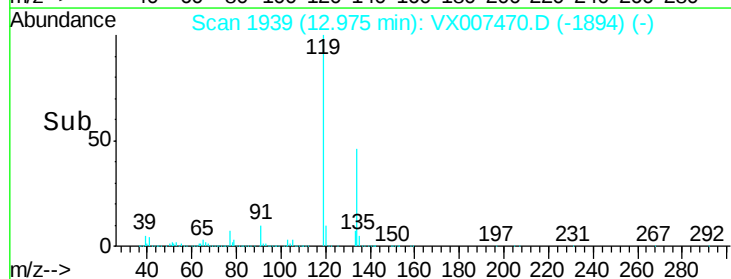
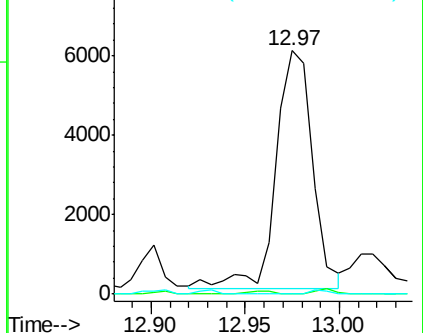
157 0.8 65.1 195.3#

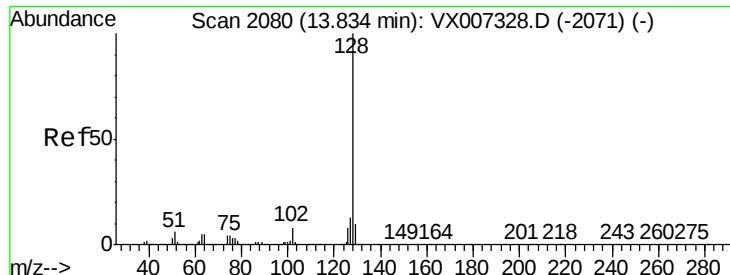


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 312.107 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX007470.D

Acq: 11 Feb 2019 16:13

Instrument :

MSVOA_X

ClientSampleId :

DUP-0503-190207

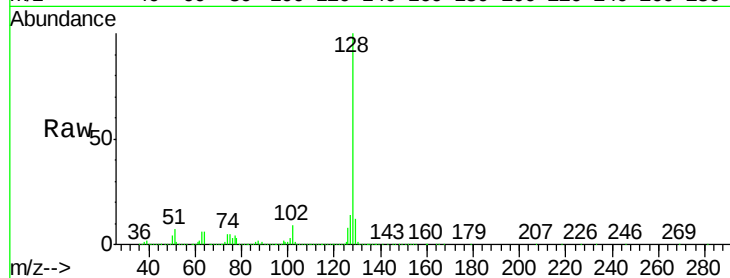
Tot Ion:128 Resp: 8616479

Ion Ratio Lower Upper

128 100

127 13.6 10.5 15.7

129 11.5 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

