

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091520\
 Data File : VX018406.D
 Acq On : 15 Sep 2020 15:00
 Operator : JC/SP
 Sample : L3952-02 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 40614DL

Quant Time: Sep 16 03:36:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	463119	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	722382	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	709325	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	349874	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	322181	50.11	ug/l	0.00
Spiked Amount			Recovery	=	100.22%	
35) Dibromofluoromethane	5.46	113	247707	50.35	ug/l	0.00
Spiked Amount			Recovery	=	100.70%	
50) Toluene-d8	8.70	98	895366	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
62) 4-Bromofluorobenzene	11.12	95	335522	46.54	ug/l	0.00
Spiked Amount			Recovery	=	93.08%	

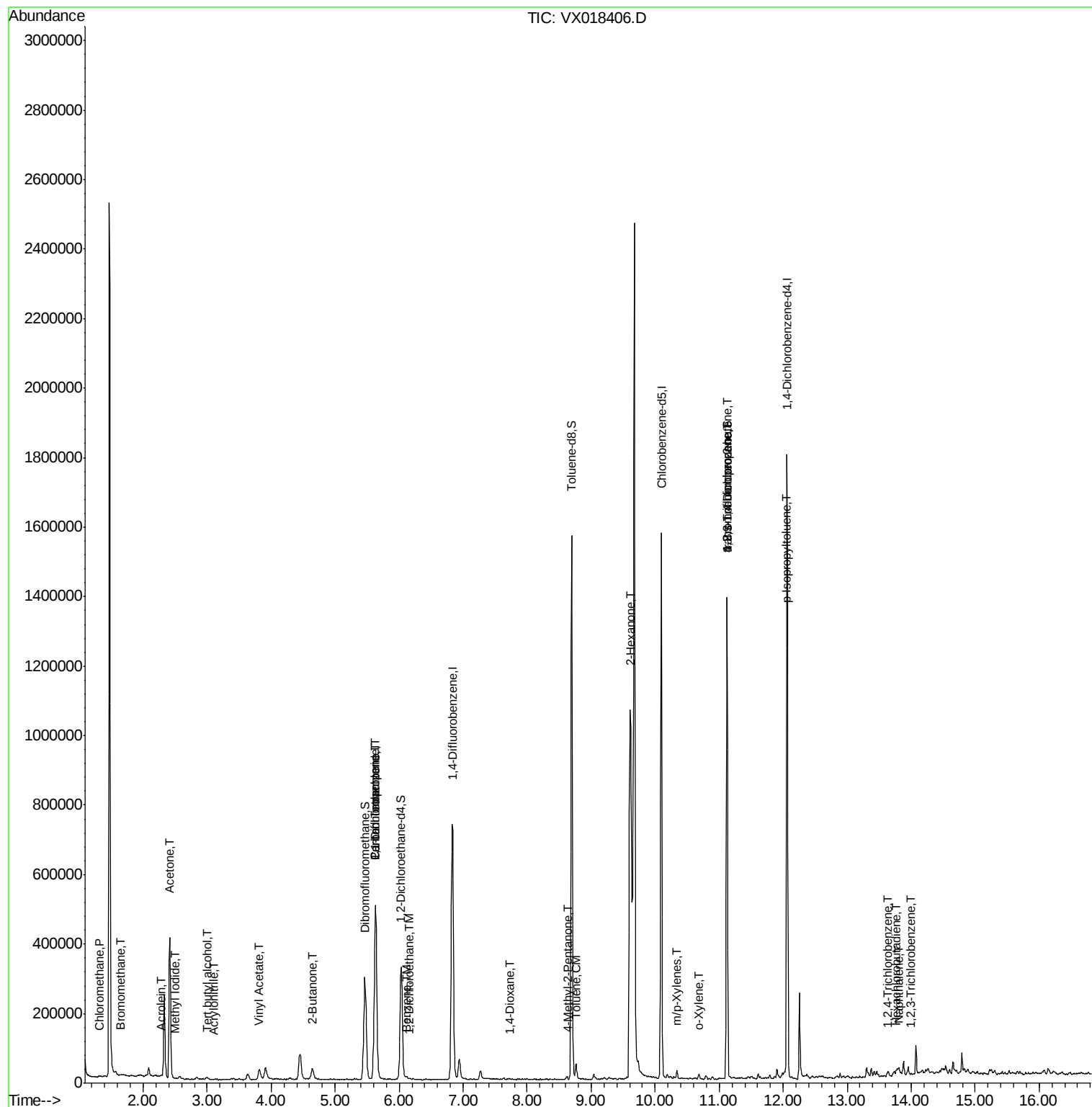
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1302	0.219	ug/l	97
5) Bromomethane	1.65	94	940	0.329	ug/l #	31
10) Methyl Iodide	2.50	142	1327	5.541	ug/l #	85
11) Tert butyl alcohol	3.01	59	4335	3.468	ug/l #	66
13) Acrolein	2.28	56	354	0.683	ug/l #	1
15) Acrylonitrile	3.10	53	613	0.216	ug/l #	69
16) Acetone	2.42	43	426298	170.163	ug/l	95
20) Methylene Chloride	2.84	84	3237	Below Cal	#	64
23) Vinyl Acetate	3.81	43	3627	0.254	ug/l	97
25) 2-Butanone	4.64	43	10116	2.457	ug/l	97
36) 1,1-Dichloropropene	5.63	75	35661	5.352	ug/l #	42
38) Carbon Tetrachloride	5.64	117	47605	6.340	ug/l #	17
40) Benzene	6.12	78	8771	0.448	ug/l	93
42) 1,2-Dichloroethane	6.17	62	1746	0.233	ug/l	91
49) 1,4-Dioxane	7.73	88	356	3.159	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	5158	0.668	ug/l	98
52) Toluene	8.77	92	14912	1.201	ug/l	100
59) 2-Hexanone	9.61	43	338251	57.616	ug/l #	35
68) m/p-Xylenes	10.34	106	5138	0.571	ug/l	94
69) o-Xylene	10.68	106	2635	0.302	ug/l	91
76) 1,2,3-Trichloropropane	11.12	75	173851	22.337	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	173851	60.329	ug/l #	12
86) p-Isopropyltoluene	12.05	119	17630	0.902	ug/l #	82
93) 1,2,4-Trichlorobenzene	13.63	180	1972	0.280	ug/l	87
94) Hexachlorobutadiene	13.76	225	686	0.247	ug/l	88
95) Naphthalene	13.82	128	7182	0.310	ug/l #	65
96) 1,2,3-Trichlorobenzene	14.01	180	1639	0.236	ug/l	91

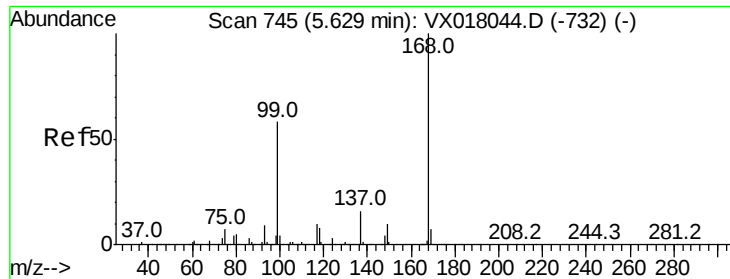
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 16 03:36:41 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 21 03:03:56 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX018406.D

Acq: 15 Sep 2020 15:00

Instrument :

MSVOA_X

ClientSampleId :

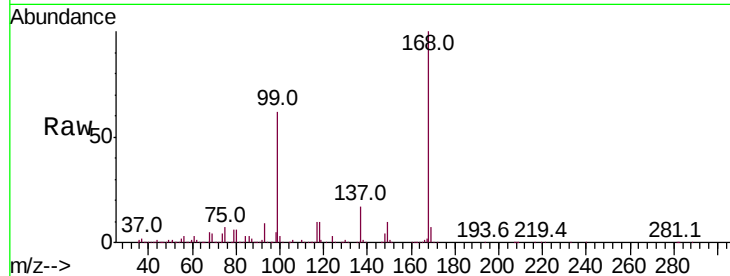
40614DL

Tot Ion:168 Resp: 463119

Ion Ratio Lower Upper

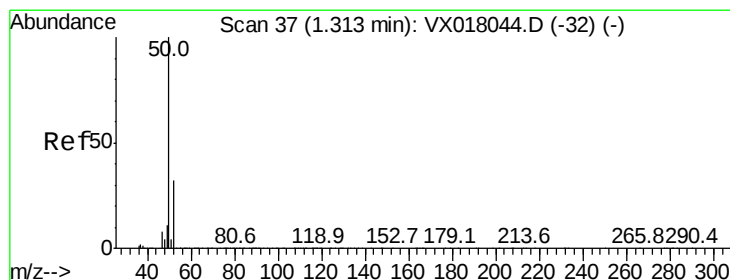
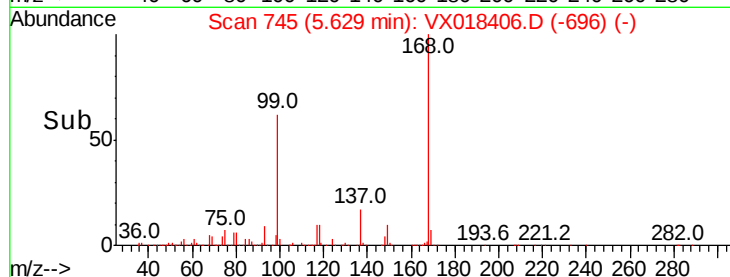
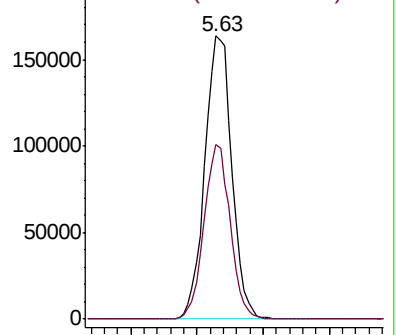
168 100

99 61.5 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.219 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX018406.D

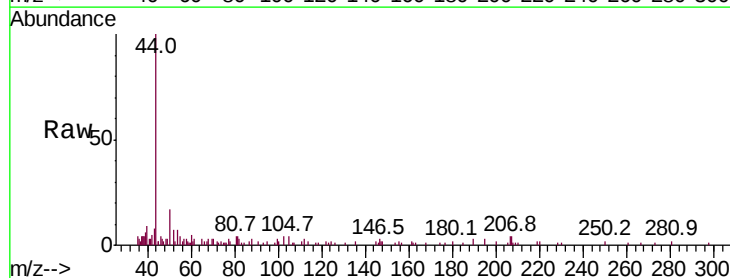
Acq: 15 Sep 2020 15:00

Tgt Ion: 50 Resp: 1302

Ion Ratio Lower Upper

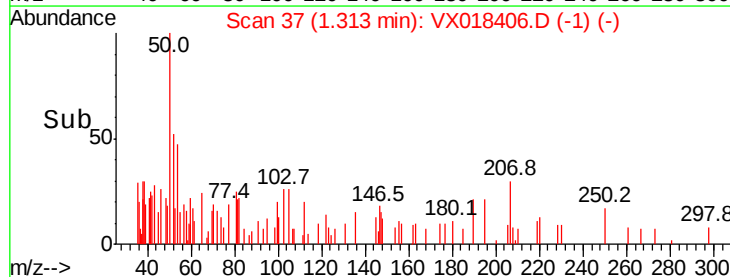
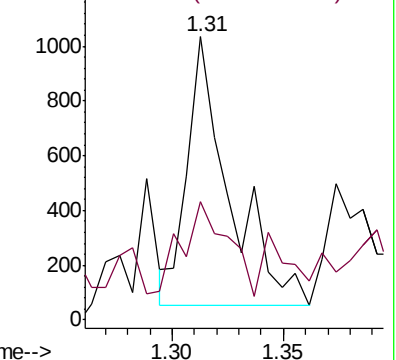
50 100

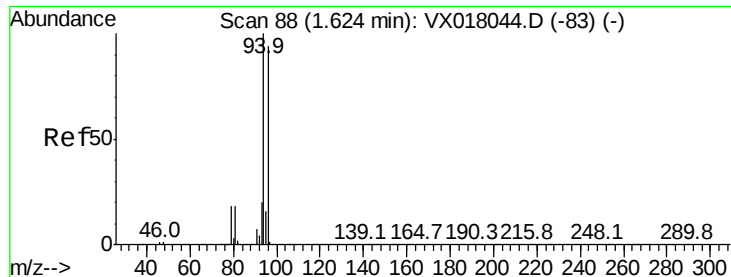
52 33.6 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.329 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX018406.D

Acq: 15 Sep 2020 15:00

Instrument :

MSVOA_X

ClientSampleId :

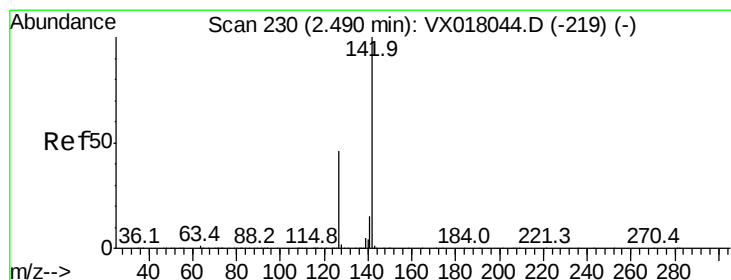
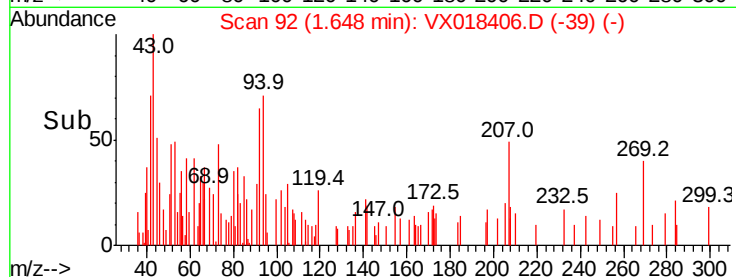
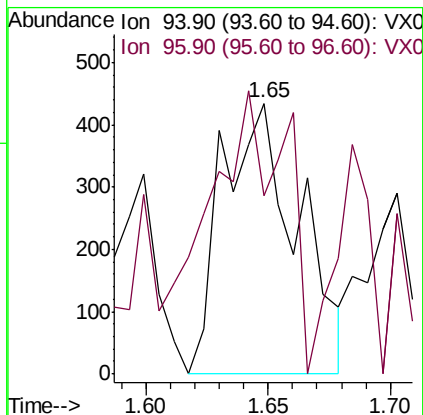
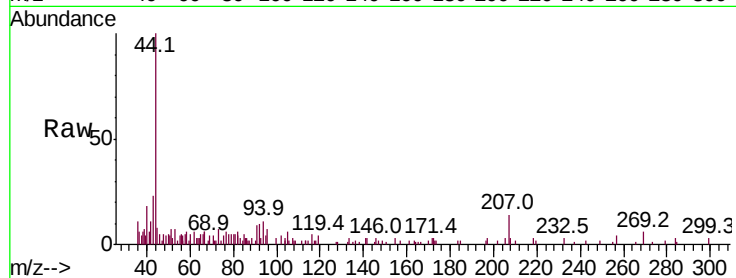
40614DL

Tot Ion: 94 Resp: 940

Ion Ratio Lower Upper

94 100

96 26.9 74.8 112.2#



#10

Methyl Iodide

Concen: 5.541 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX018406.D

Acq: 15 Sep 2020 15:00

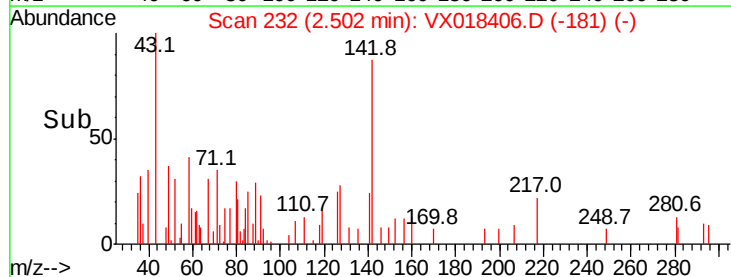
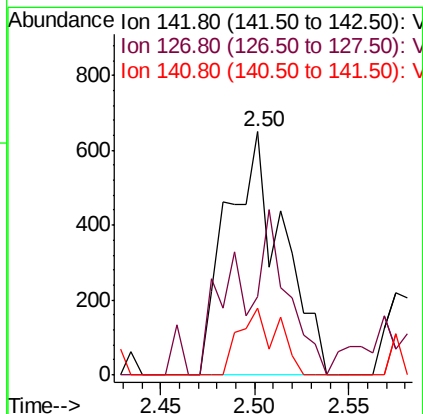
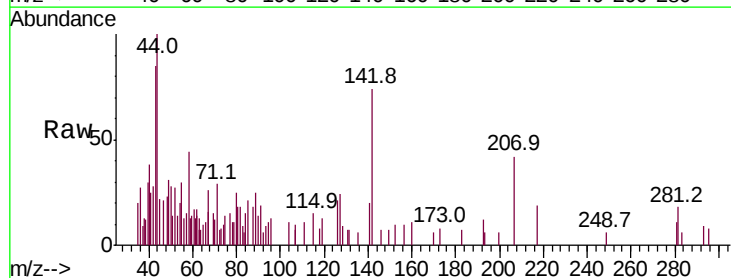
Tgt Ion: 142 Resp: 1327

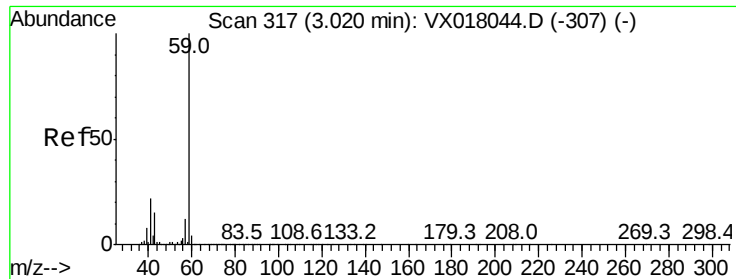
Ion Ratio Lower Upper

142 100

127 35.3 37.0 55.6#

141 19.1 11.5 17.3#

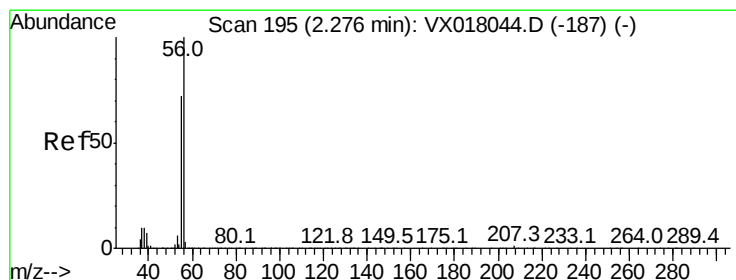
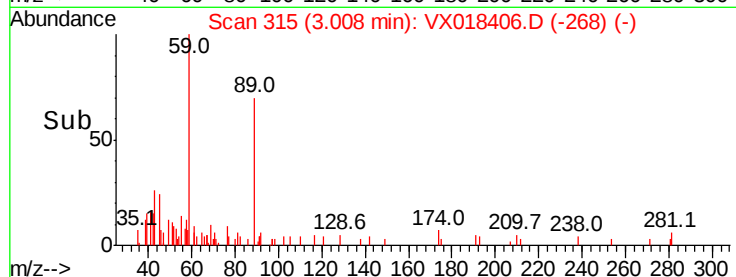
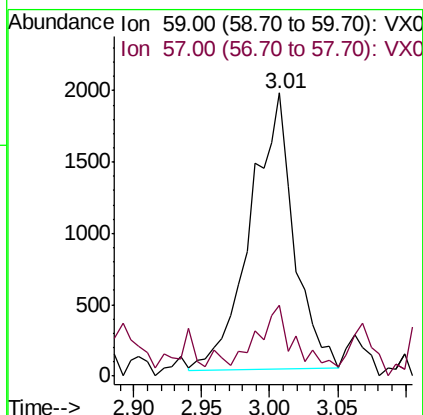
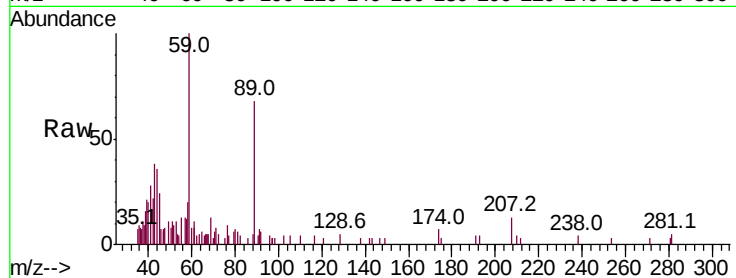




#11
Tert butyl alcohol
Concen: 3.468 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX018406.D
Acq: 15 Sep 2020 15:00

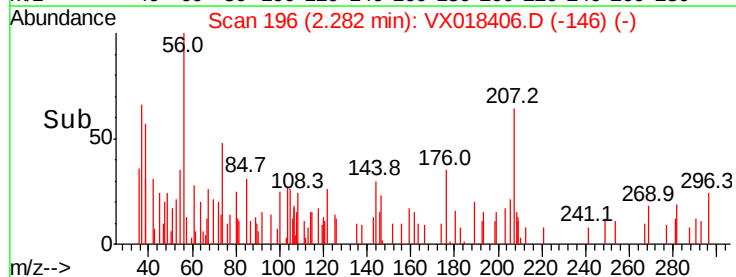
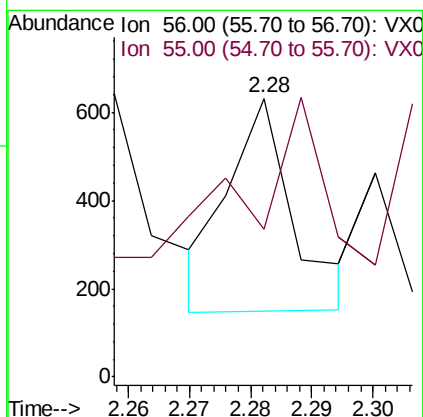
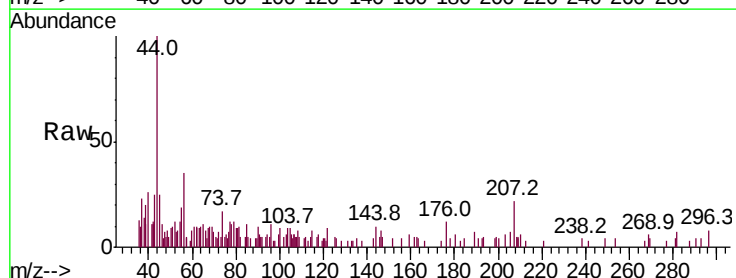
Instrument :
MSVOA_X
ClientSampleId :
40614DL

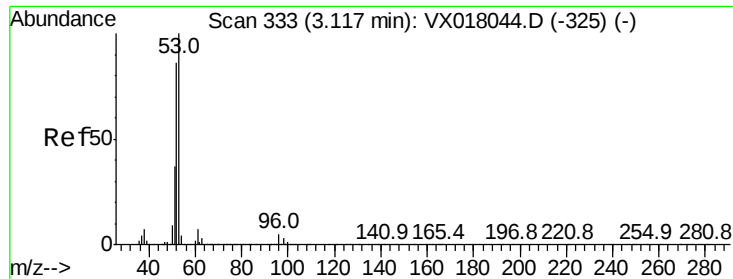
Tot Ion: 59 Resp: 4335
Ion Ratio Lower Upper
59 100
57 23.9 8.9 13.3#



#13
Acrolein
Concen: 0.683 ug/l
RT: 2.28 min Scan# 196
Delta R.T. 0.01 min
Lab File: VX018406.D
Acq: 15 Sep 2020 15:00

Tgt Ion: 56 Resp: 354
Ion Ratio Lower Upper
56 100
55 174.9 57.0 85.6#





#15

Acrylonitrile

Concen: 0.216 ug/l

RT: 3.10 min Scan# 330

Delta R.T. -0.02 min

Lab File: VX018406.D

Acq: 15 Sep 2020 15:00

Instrument :

MSVOA_X

ClientSampled :

40614DL

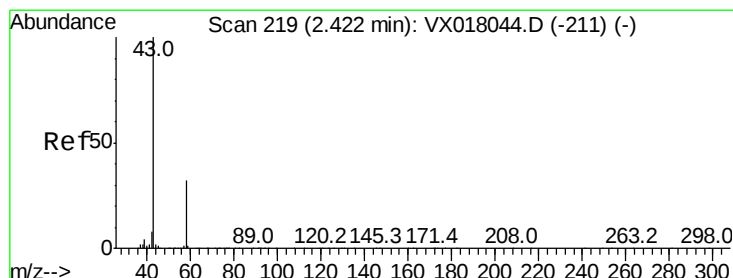
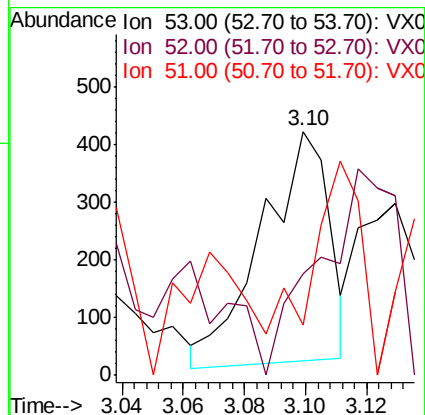
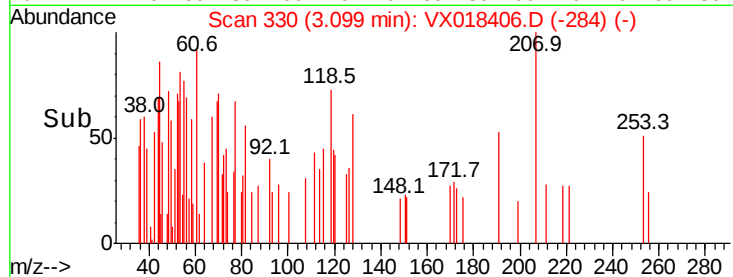
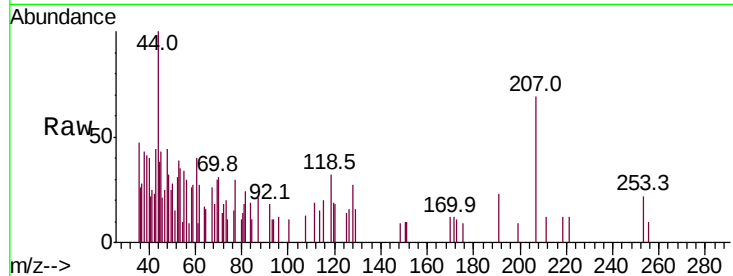
Tot Ion: 53 Resp: 613

Ion Ratio Lower Upper

53 100

52 101.3 66.9 100.3#

51 70.0 28.7 43.1#



#16

Acetone

Concen: 170.163 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX018406.D

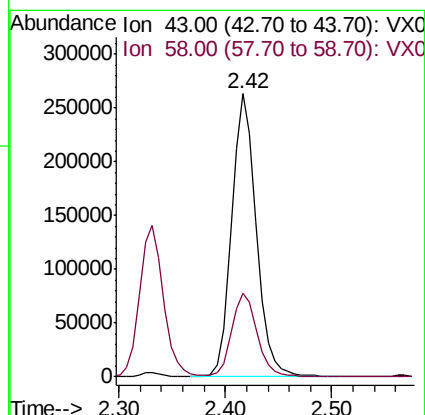
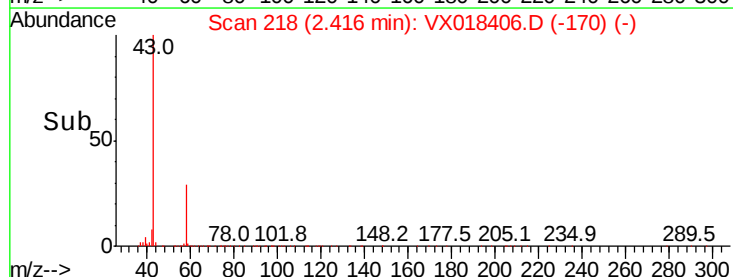
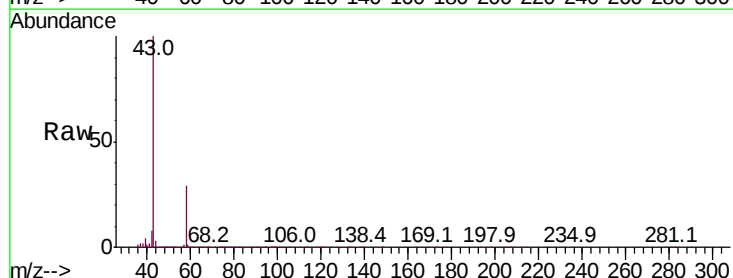
Acq: 15 Sep 2020 15:00

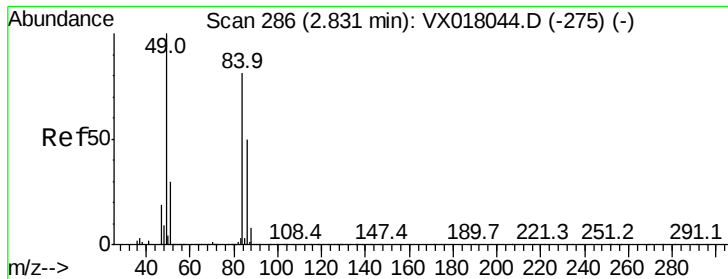
Tgt Ion: 43 Resp: 426298

Ion Ratio Lower Upper

43 100

58 29.3 25.5 38.3

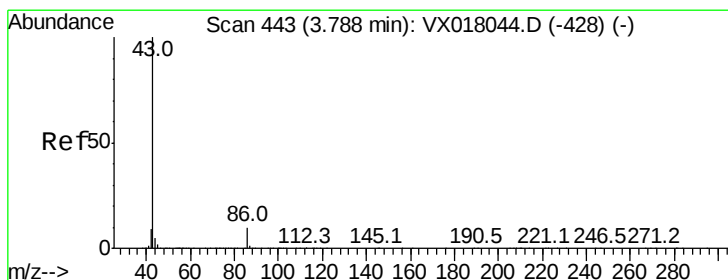
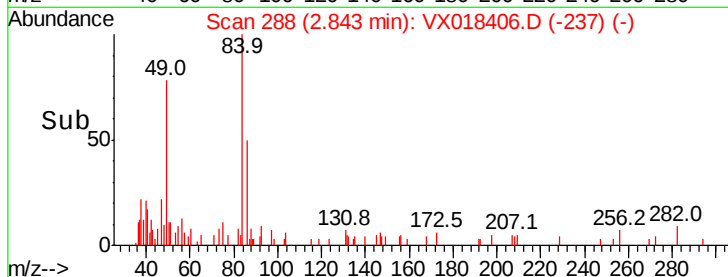
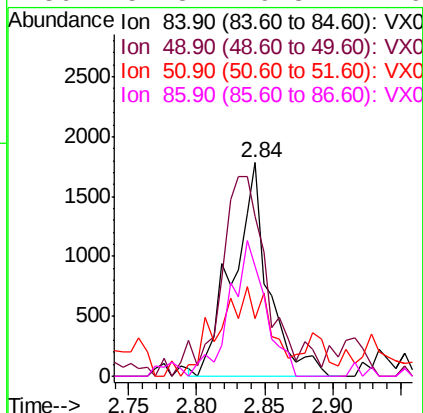
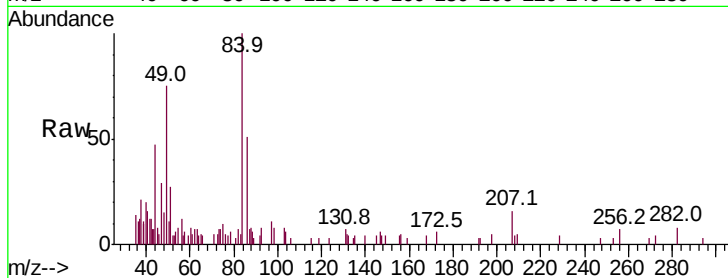




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX018406.D
Acq: 15 Sep 2020 15:00

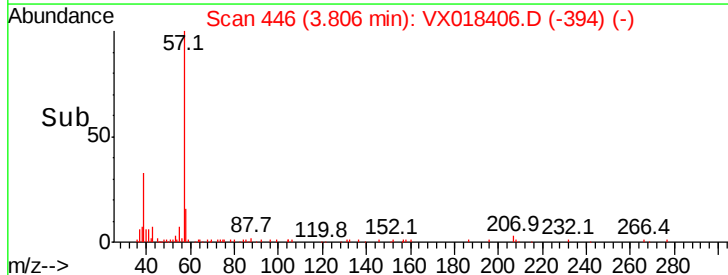
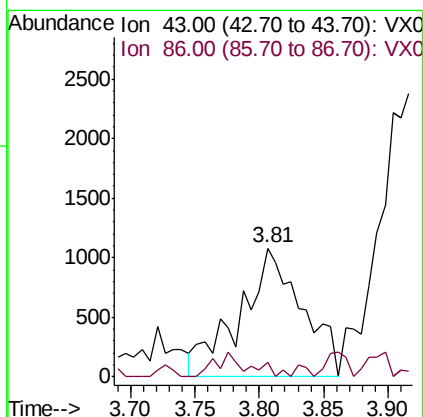
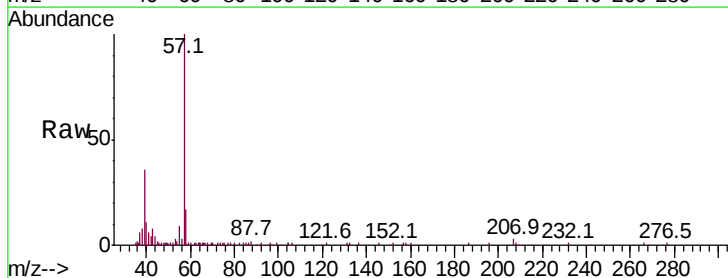
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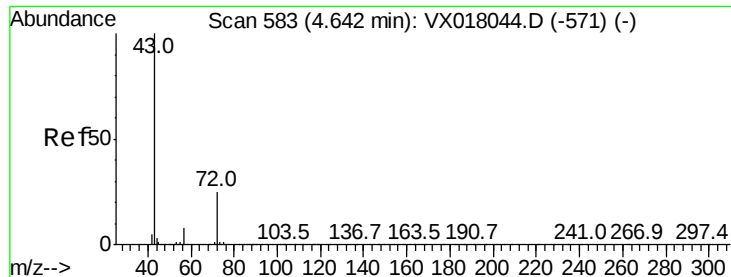
Tot Ion:	84	Resp:	3237
Ion	Ratio	Lower	Upper
84	100		
49	66.2	98.6	148.0#
51	22.4	29.6	44.4#
86	51.3	49.8	74.6



#23
Vinyl Acetate
Concen: 0.254 ug/l
RT: 3.81 min Scan# 446
Delta R.T. 0.02 min
Lab File: VX018406.D
Acq: 15 Sep 2020 15:00

Tgt Ion:	43	Resp:	3627
Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.9	11.9





#25

2-Butanone

Concen: 2.457 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX018406.D

Acq: 15 Sep 2020 15:00

Instrument :

MSVOA_X

ClientSampleId :

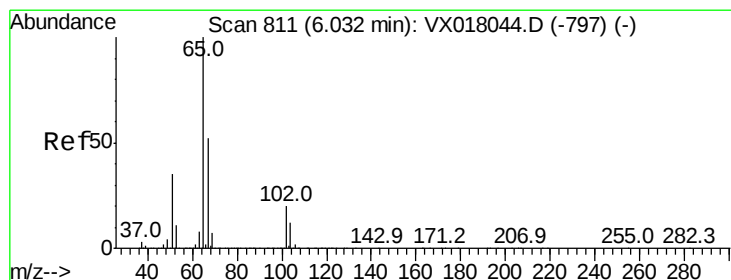
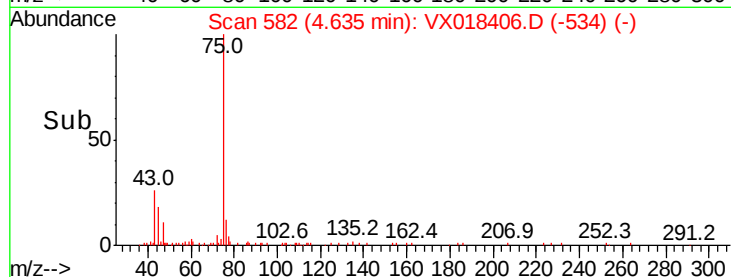
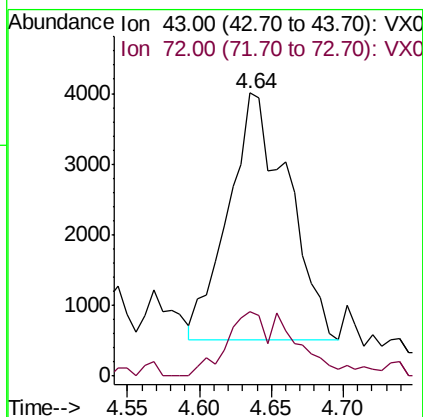
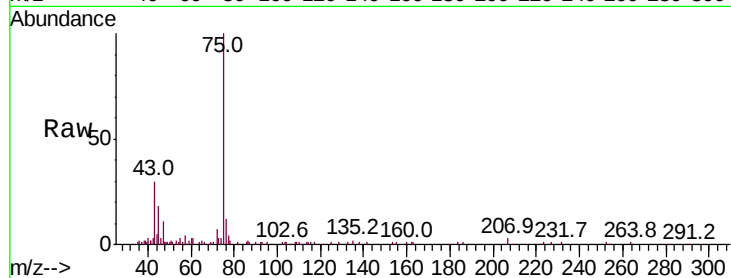
40614DL

Tot Ion: 43 Resp: 10116

Ion Ratio Lower Upper

43 100

72 26.3 19.8 29.6



#33

1,2-Dichloroethane-d4

Concen: 50.112 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018406.D

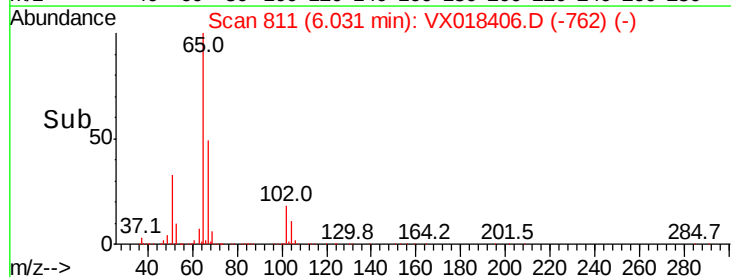
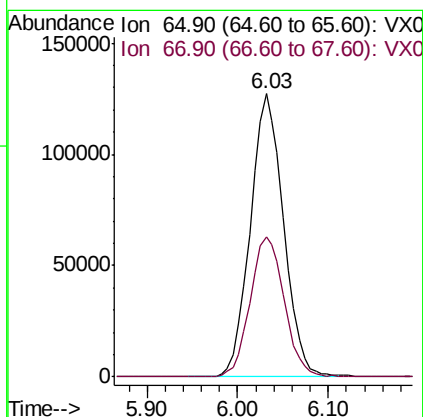
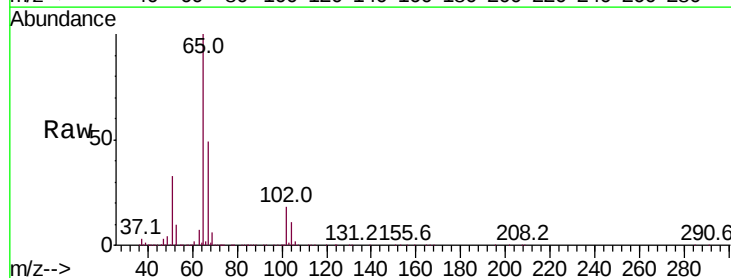
Acq: 15 Sep 2020 15:00

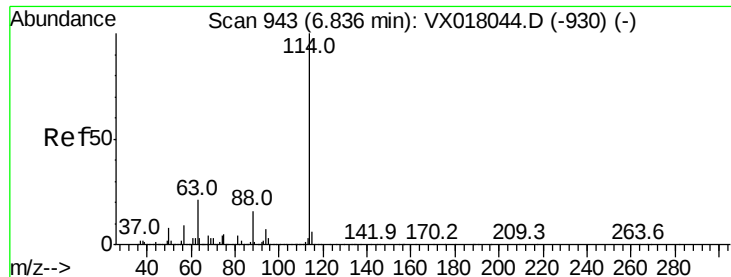
Tgt Ion: 65 Resp: 322181

Ion Ratio Lower Upper

65 100

67 50.9 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. -0.00 min

Lab File: VX018406.D

Acq: 15 Sep 2020 15:00

Instrument :

MSVOA_X

ClientSampleId :

40614DL

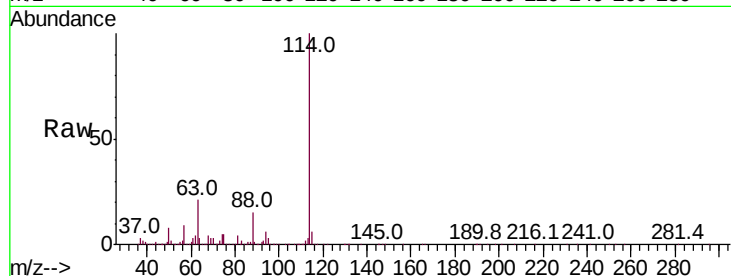
Tot Ion:114 Resp: 722382

Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.6

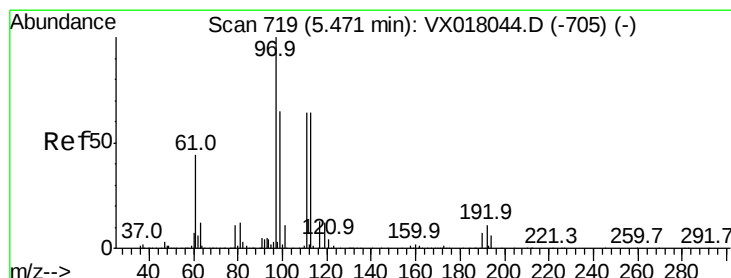
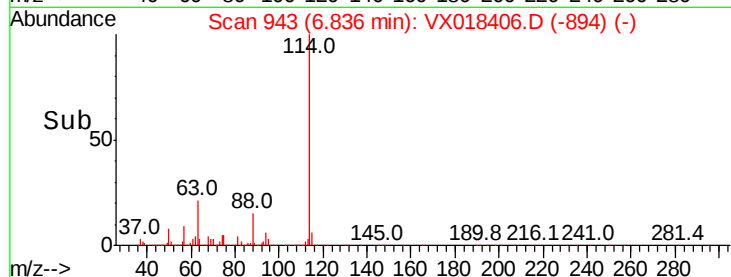
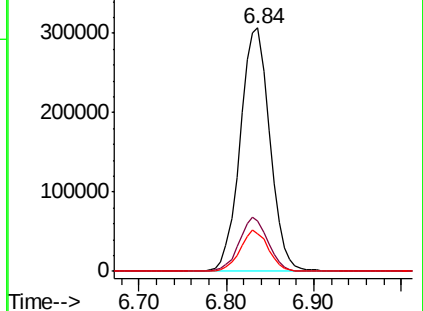
88 15.4 0.0 31.8



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: 50.349 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018406.D

Acq: 15 Sep 2020 15:00

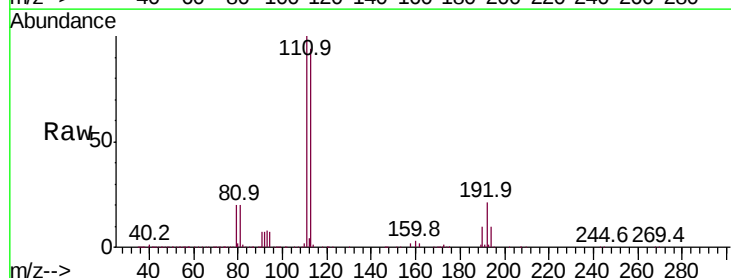
Tgt Ion:113 Resp: 247707

Ion Ratio Lower Upper

113 100

111 102.8 81.6 122.4

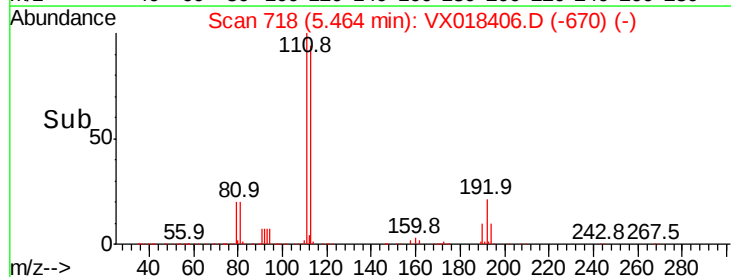
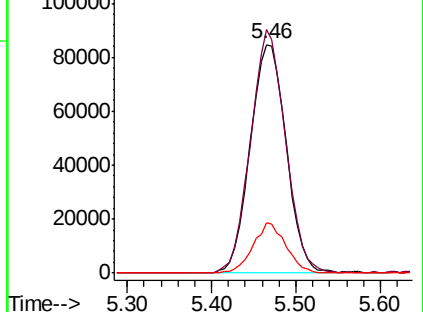
192 20.3 15.8 23.8

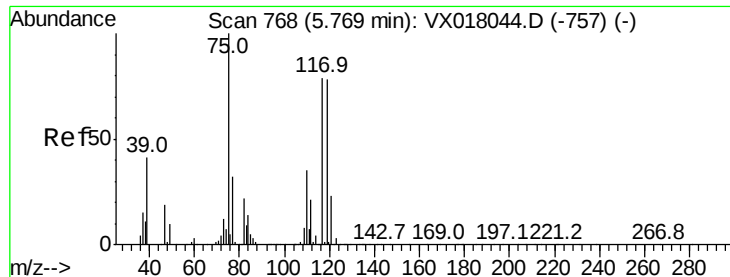


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.352 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018406.D

Acq: 15 Sep 2020 15:00

Instrument :

MSVOA_X

ClientSampleId :

40614DL

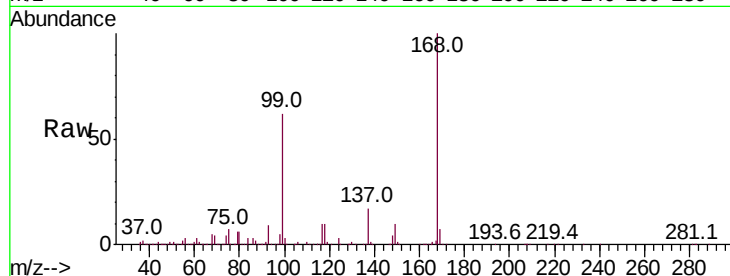
Tot Ion: 75 Resp: 35661

Ion Ratio Lower Upper

75 100

110 0.0 18.0 54.0#

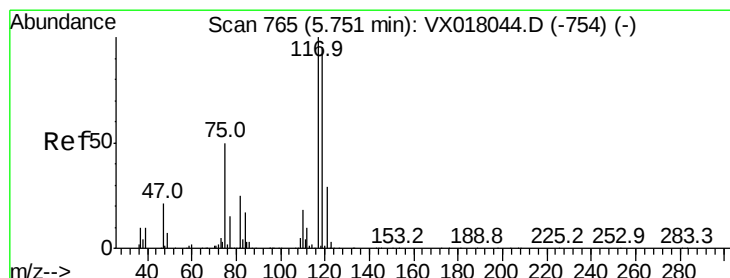
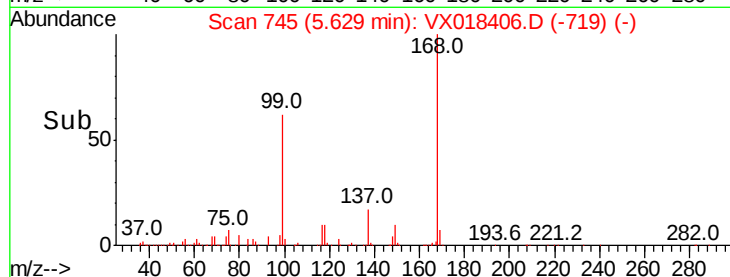
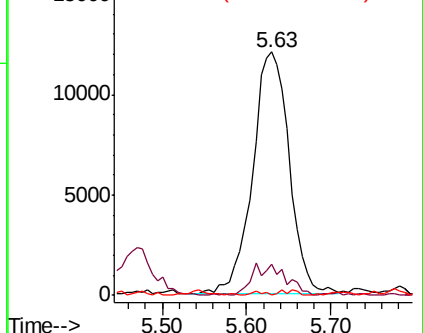
77 0.5 24.4 36.6#



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: 6.340 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018406.D

Acq: 15 Sep 2020 15:00

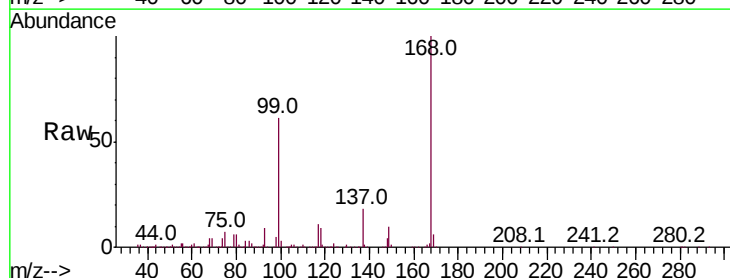
Tgt Ion: 117 Resp: 47605

Ion Ratio Lower Upper

117 100

119 6.0 75.8 113.6#

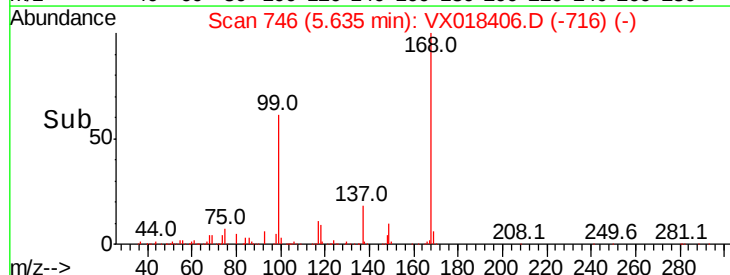
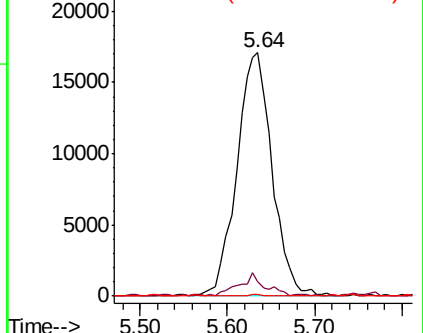
121 0.2 23.4 35.0#

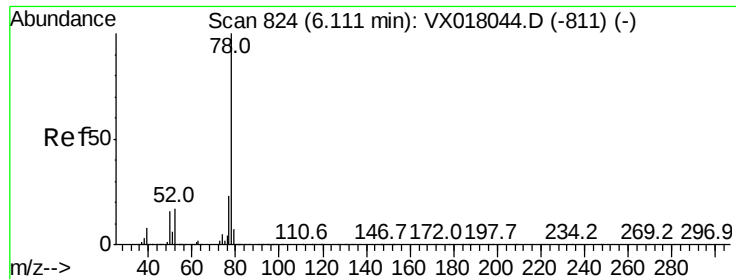


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.448 ug/l

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX018406.D

Acq: 15 Sep 2020 15:00

Instrument :

MSVOA_X

ClientSampleId :

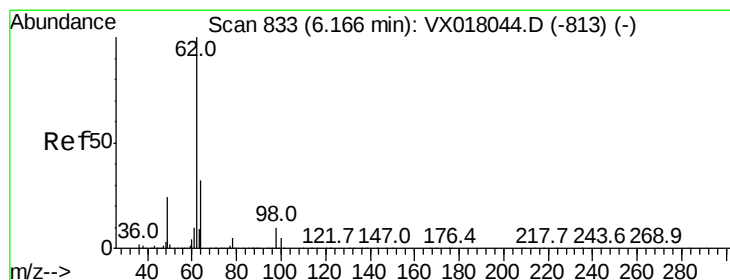
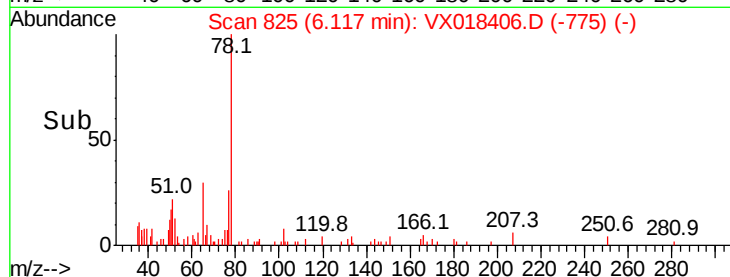
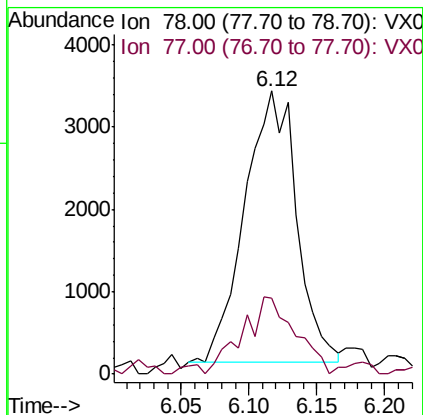
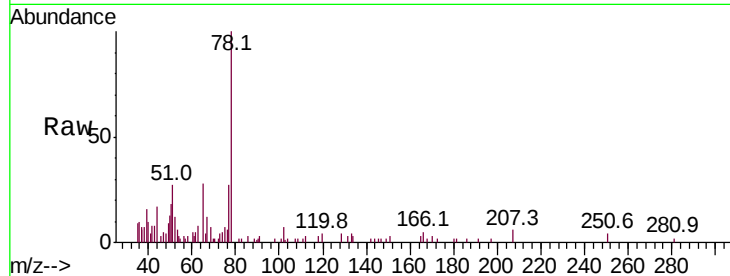
40614DL

Tot Ion: 78 Resp: 8771

Ion Ratio Lower Upper

78 100

77 25.9 18.2 27.2



#42

1,2-Dichloroethane

Concen: 0.233 ug/l

RT: 6.17 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX018406.D

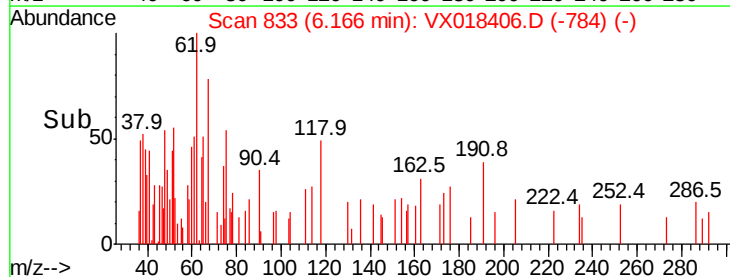
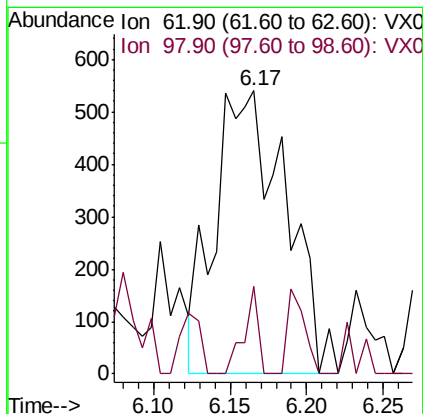
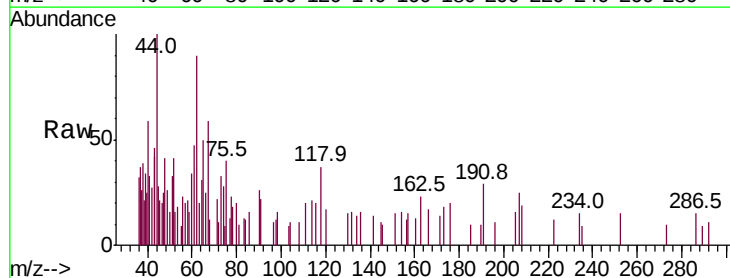
Acq: 15 Sep 2020 15:00

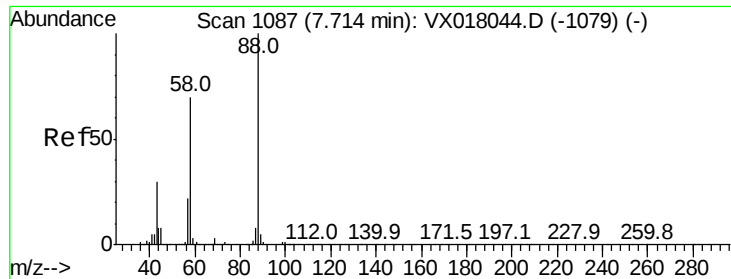
Tgt Ion: 62 Resp: 1746

Ion Ratio Lower Upper

62 100

98 6.0 0.0 18.2

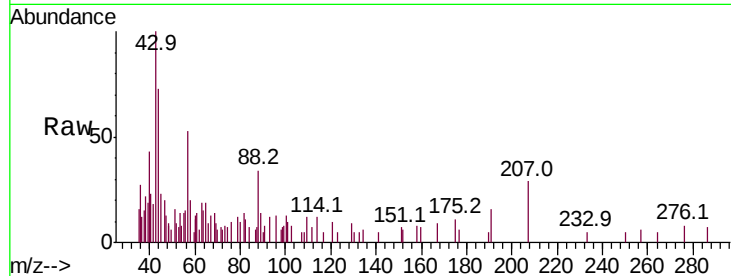




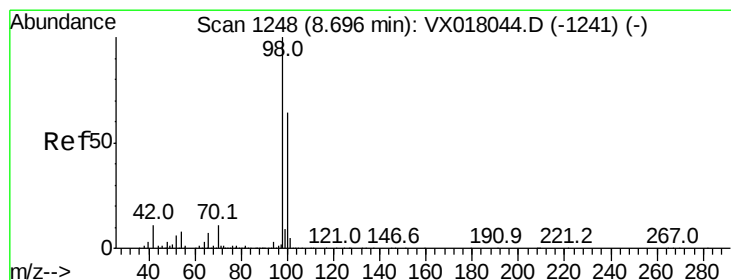
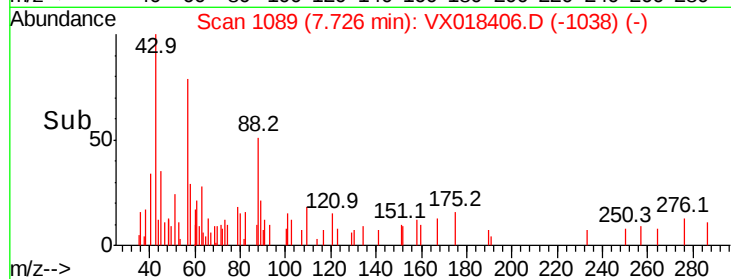
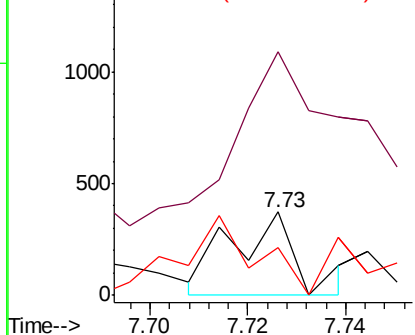
#49
1,4-Dioxane
Concen: 3.159 ug/l
RT: 7.73 min Scan# 1089
Delta R.T. 0.01 min
Lab File: VX018406.D
Acq: 15 Sep 2020 15:00

Instrument :
MSVOA_X
ClientSampled :
40614DL

Tot Ion: 88 Resp: 356
Ion Ratio Lower Upper
88 100
43 392.1 27.4 41.0#
58 51.7 56.4 84.6#

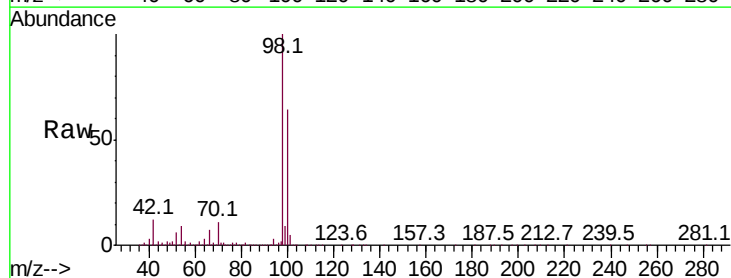


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

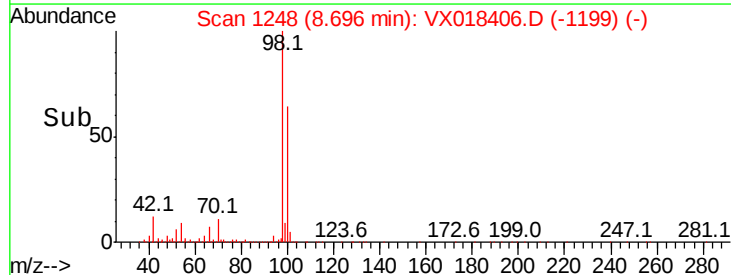
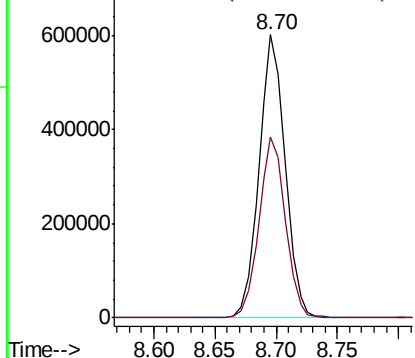


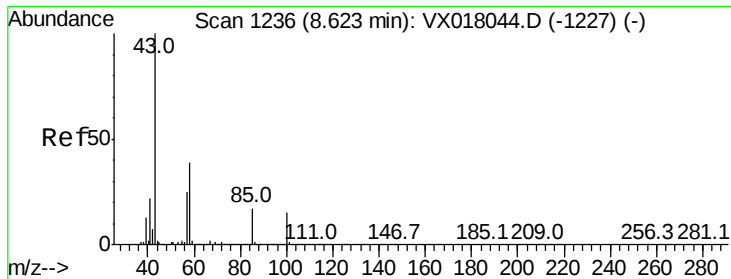
#50
Toluene-d8
Concen: 48.863 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX018406.D
Acq: 15 Sep 2020 15:00

Tgt Ion: 98 Resp: 895366
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.4



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

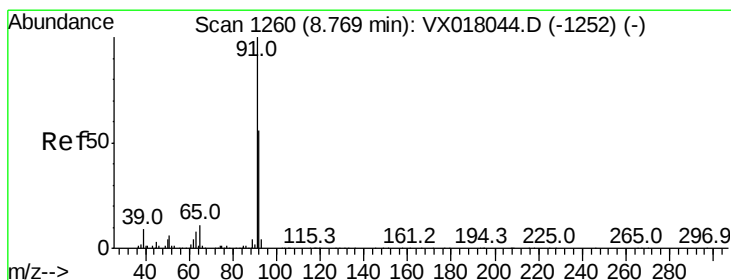
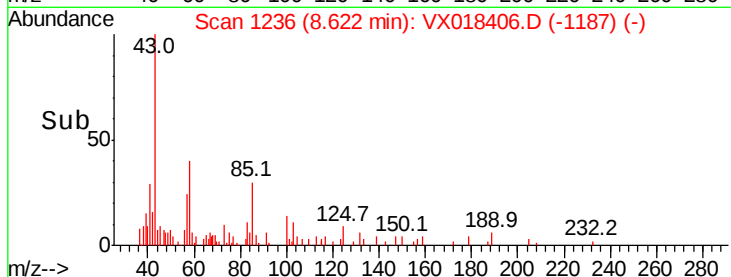
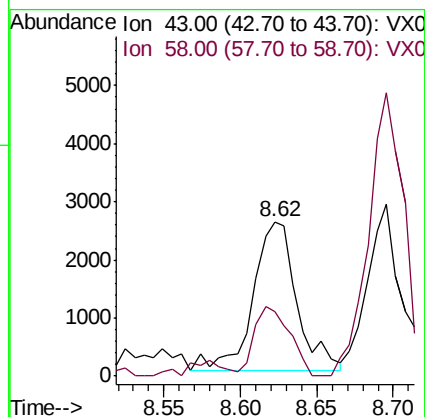
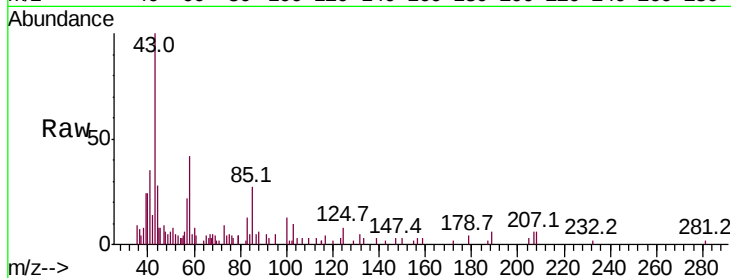




#51
4-Methyl-2-Pentanone
Concen: 0.668 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. -0.00 min
Lab File: VX018406.D
Acq: 15 Sep 2020 15:00

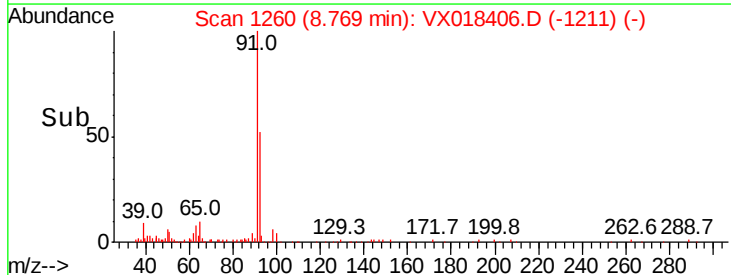
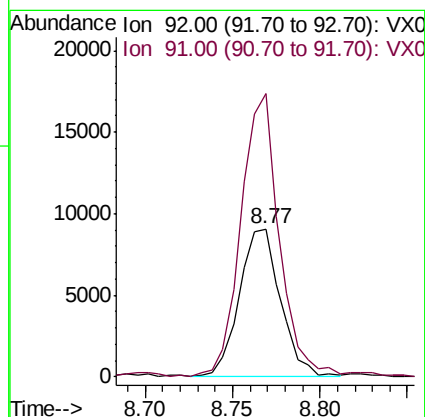
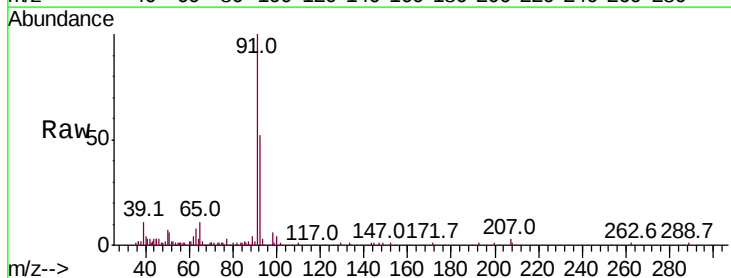
Instrument :
MSVOA_X
ClientSampleID :
40614DL

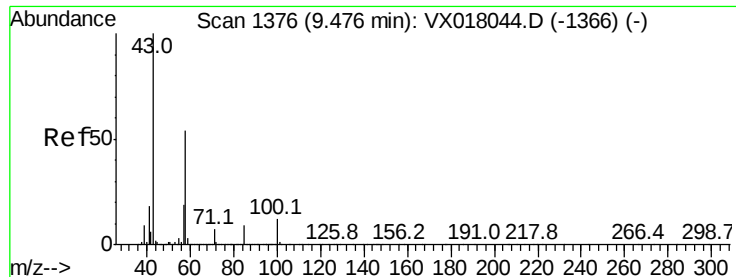
Tot Ion: 43 Resp: 5158
Ion Ratio Lower Upper
43 100
58 37.5 30.7 46.1



#52
Toluene
Concen: 1.201 ug/l
RT: 8.77 min Scan# 1260
Delta R.T. -0.00 min
Lab File: VX018406.D
Acq: 15 Sep 2020 15:00

Tgt Ion: 92 Resp: 14912
Ion Ratio Lower Upper
92 100
91 175.6 140.3 210.5

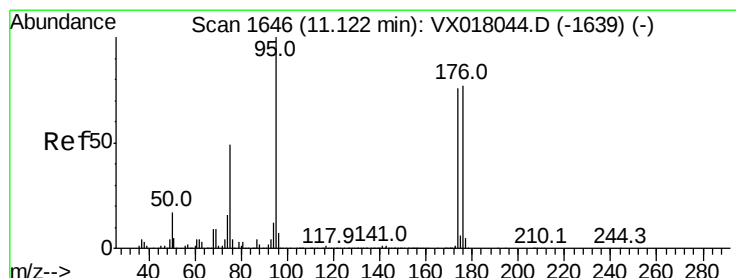
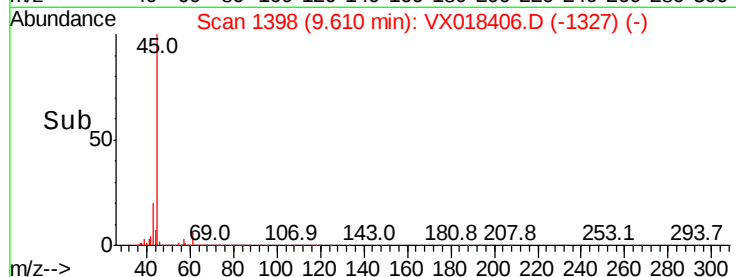
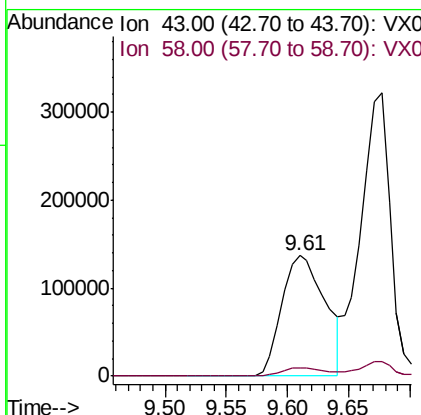
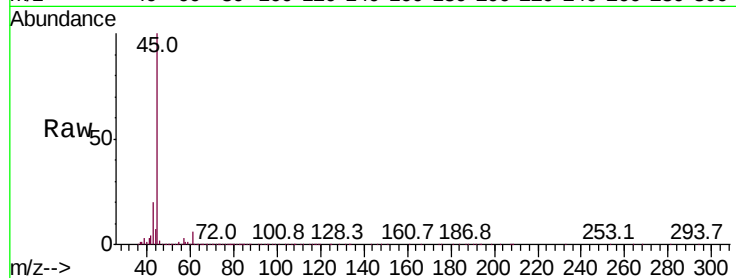




#59
2-Hexanone
Concen: 57.616 ug/l
RT: 9.61 min Scan# 1398
Delta R.T. 0.13 min
Lab File: VX018406.D
Acq: 15 Sep 2020 15:00

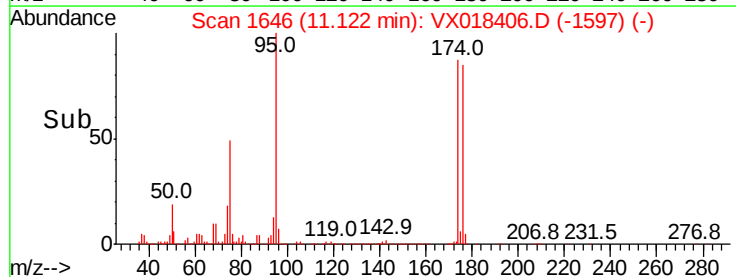
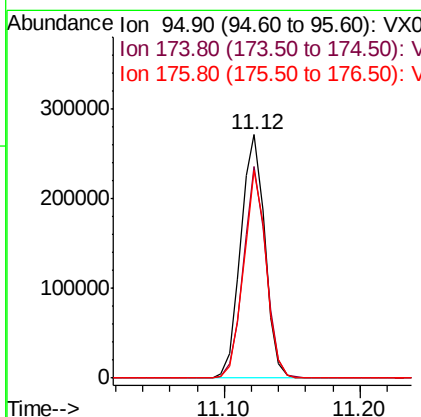
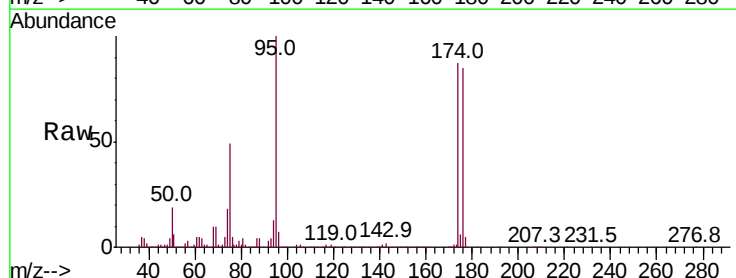
Instrument :
MSVOA_X
ClientSampleId :
40614DL

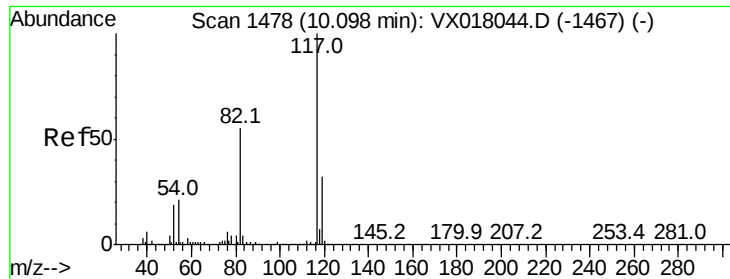
Tot Ion: 43 Resp: 338251
Ion Ratio Lower Upper
43 100
58 7.2 26.6 79.7#



#62
4-Bromofluorobenzene
Concen: 46.540 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX018406.D
Acq: 15 Sep 2020 15:00

Tgt Ion: 95 Resp: 335522
Ion Ratio Lower Upper
95 100
174 82.0 0.0 160.2
176 79.8 0.0 155.8

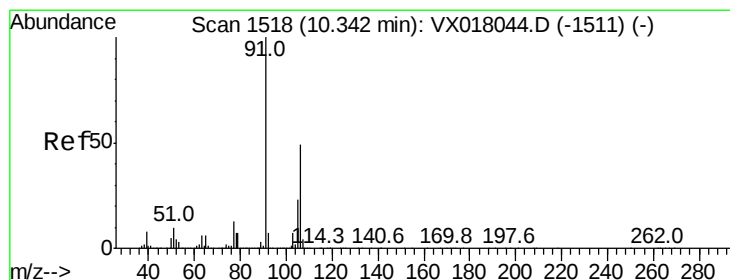
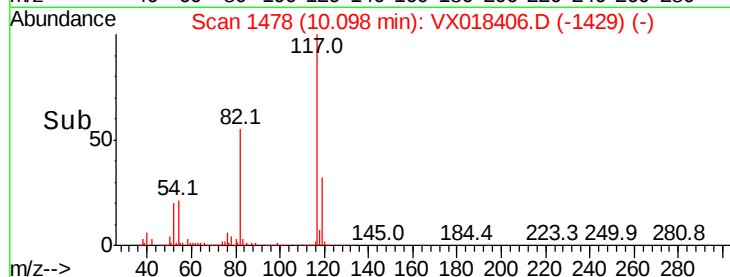
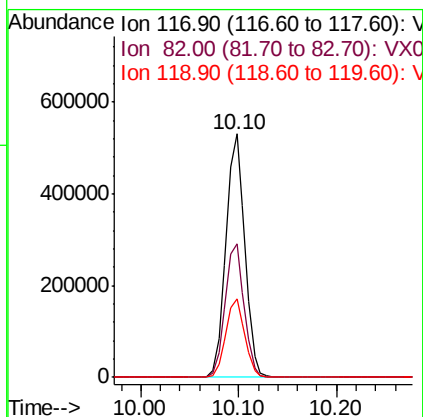
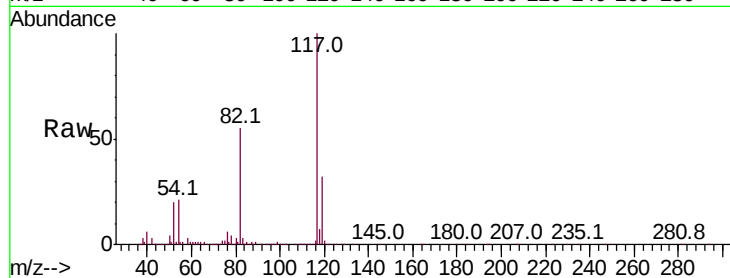




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018406.D
Acq: 15 Sep 2020 15:00

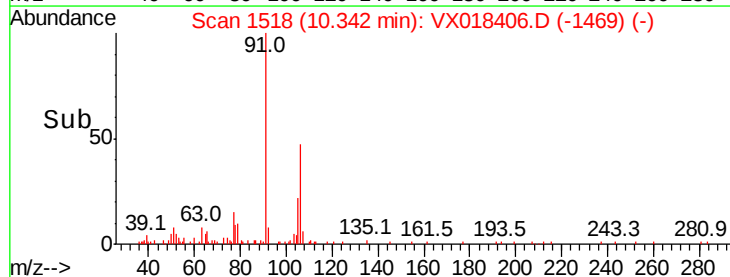
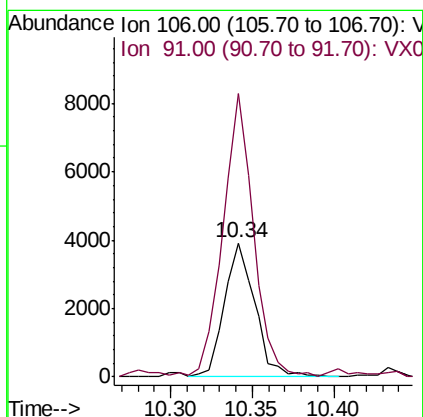
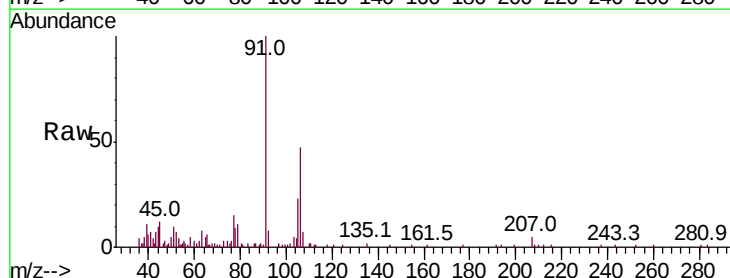
Instrument :
MSVOA_X
ClientSampleId :
40614DL

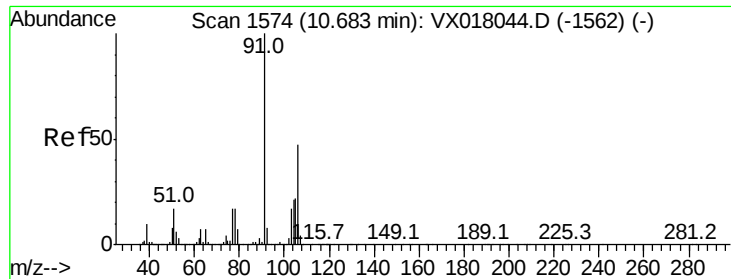
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.0	44.2	66.2
119	32.1	25.7	38.5



#68
m/p-Xylenes
Concen: 0.571 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VX018406.D
Acq: 15 Sep 2020 15:00

Tgt Ion	Ratio	Lower	Upper
106	100		
91	211.1	162.2	243.2

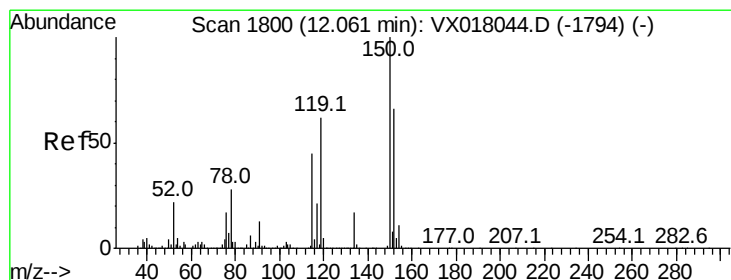
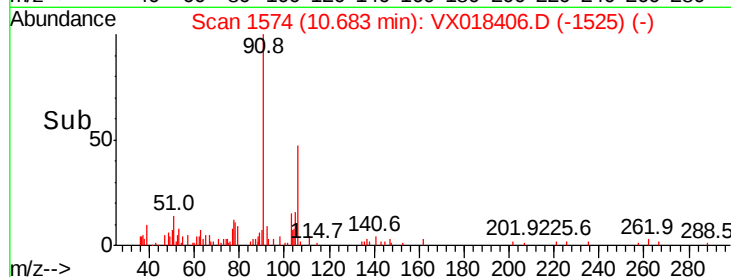
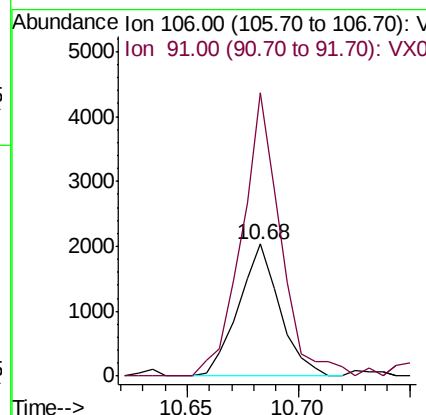
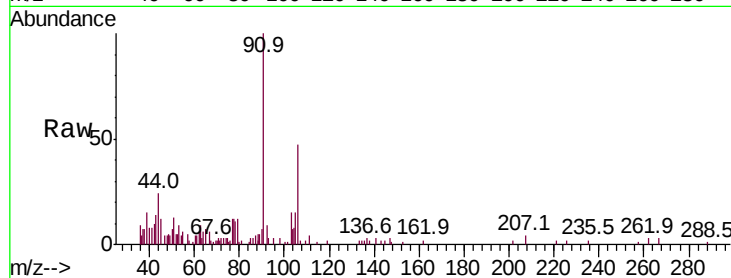




#69
o-Xylene
Concen: 0.302 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX018406.D
Acq: 15 Sep 2020 15:00

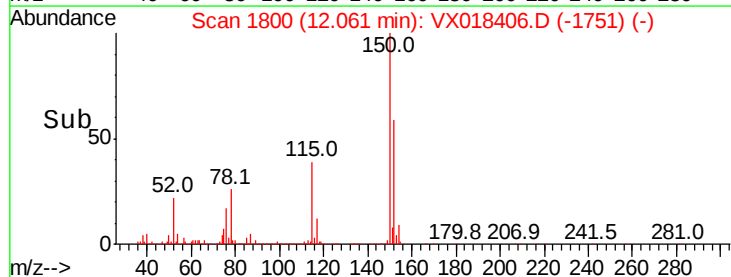
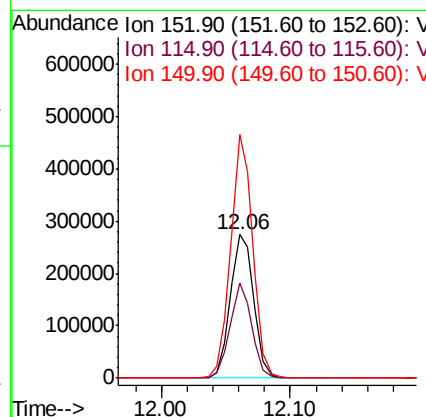
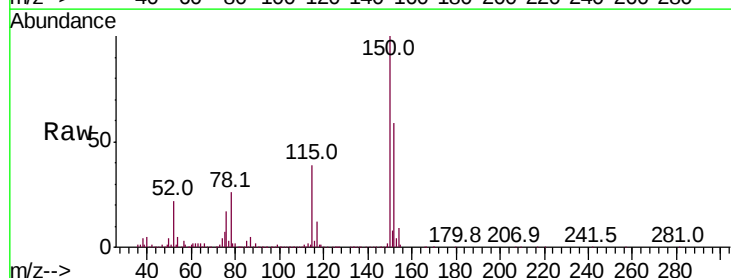
Instrument :
MSVOA_X
ClientSampleID :
40614DL

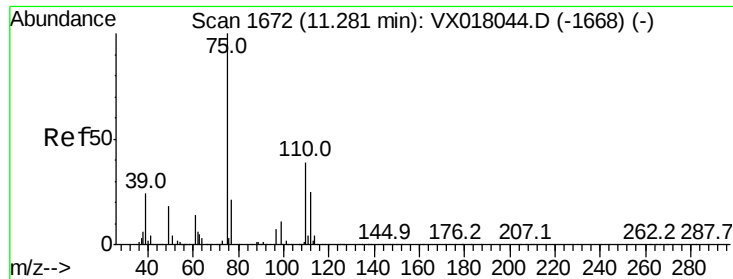
Tot Ion:106 Resp: 2635
Ion Ratio Lower Upper
106 100
91 200.3 107.1 321.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX018406.D
Acq: 15 Sep 2020 15:00

Tgt Ion:152 Resp: 349874
Ion Ratio Lower Upper
152 100
115 61.9 41.5 124.5
150 160.9 0.0 343.8





#76

1,2,3-Trichloropropane

Concen: 22.337 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018406.D

Acq: 15 Sep 2020 15:00

Instrument :

MSVOA_X

ClientSampleId :

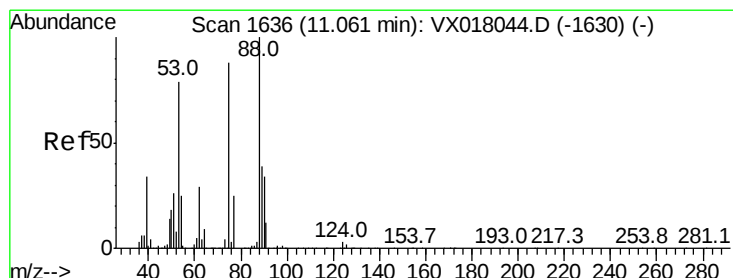
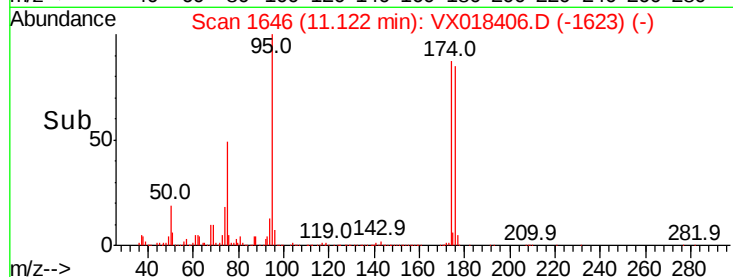
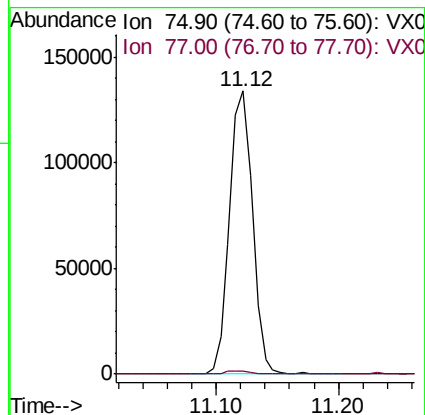
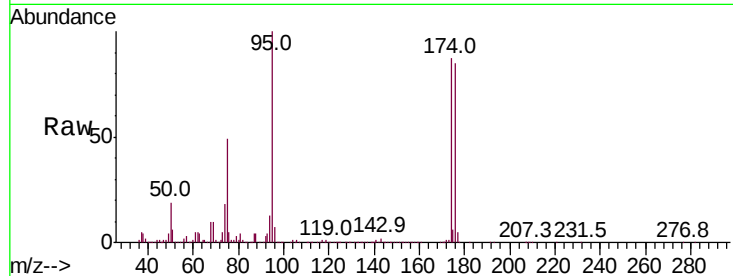
40614DL

Tot Ion: 75 Resp: 173851

Ion Ratio Lower Upper

75 100

77 1.4 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.329 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018406.D

Acq: 15 Sep 2020 15:00

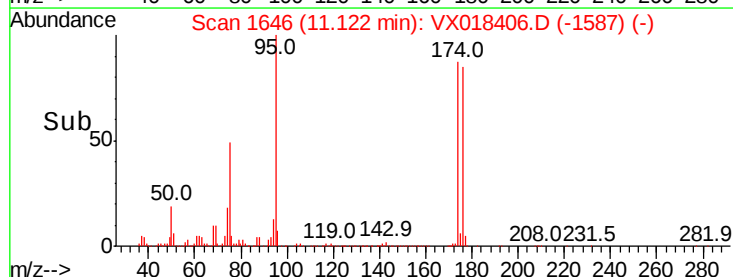
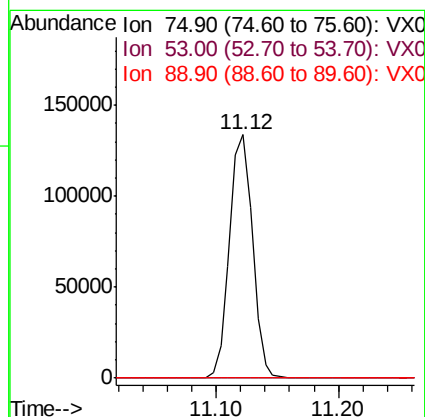
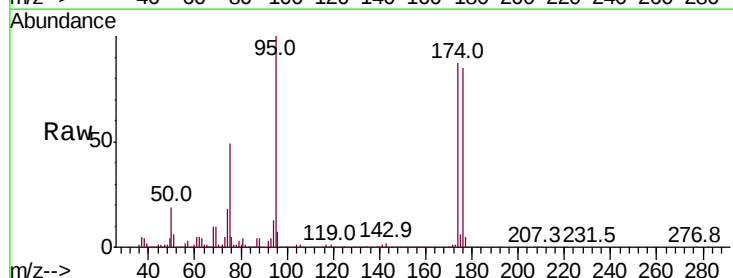
Tgt Ion: 75 Resp: 173851

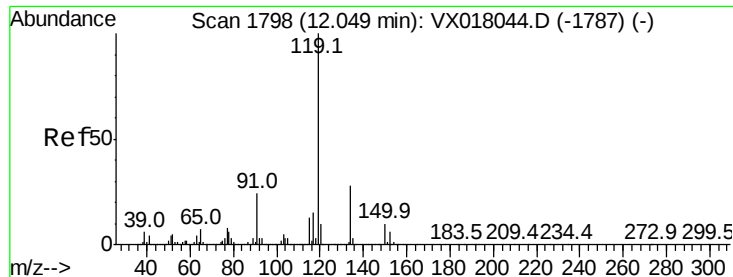
Ion Ratio Lower Upper

75 100

53 0.5 74.7 112.1#

89 0.0 36.6 54.8#

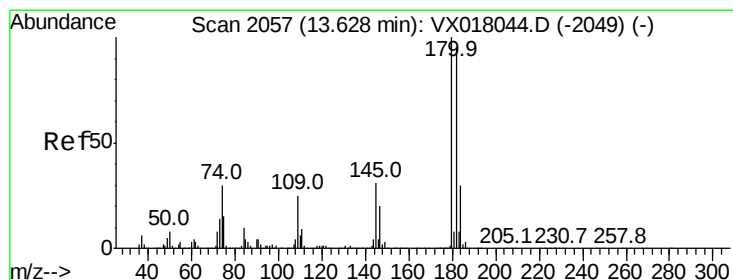
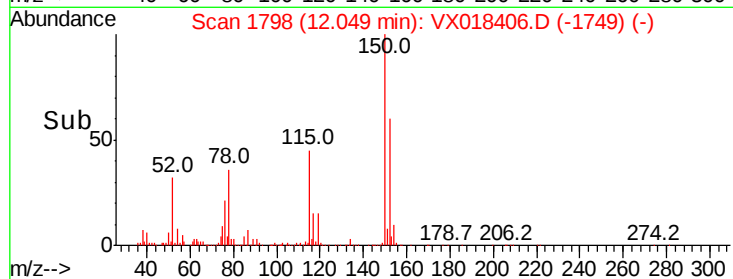
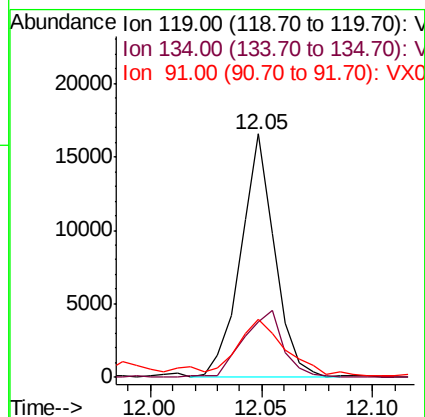
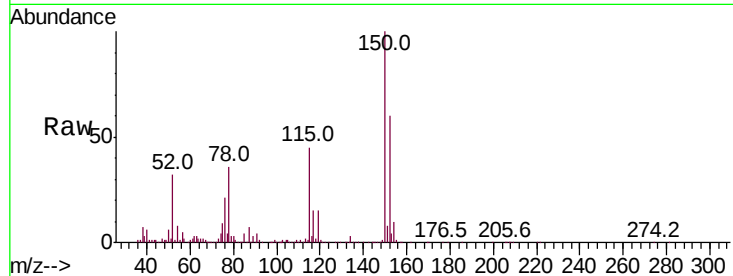




#86
 p-Isopropyltoluene
 Concen: 0.902 ug/l
 RT: 12.05 min Scan# 1798
 Delta R.T. -0.00 min
 Lab File: VX018406.D
 Acq: 15 Sep 2020 15:00

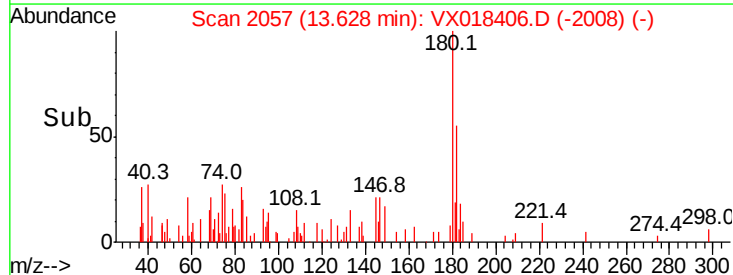
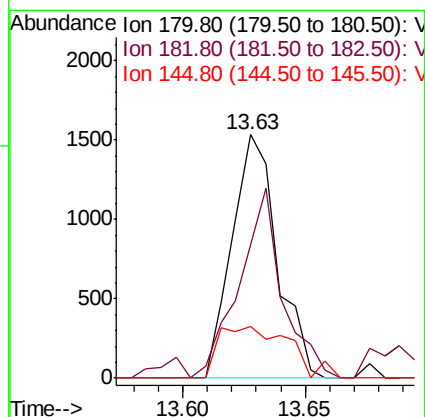
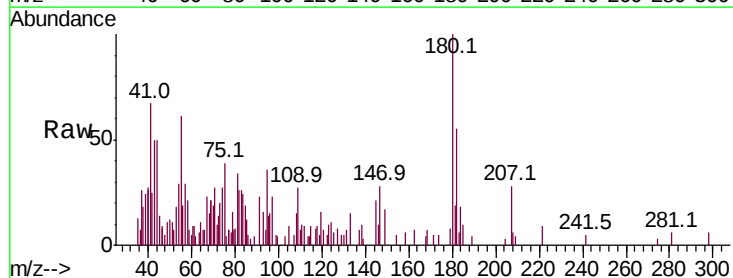
Instrument :
 MSVOA_X
 ClientSampleID :
 40614DL

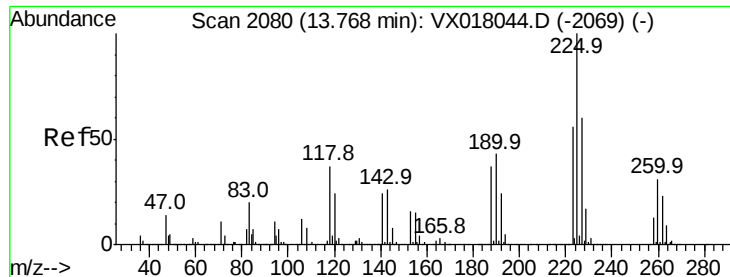
Tot Ion	Ratio	Lower	Upper
119	100		
134	32.5	13.2	39.5
91	36.0	11.8	35.4



#93
 1,2,4-Trichlorobenzene
 Concen: 0.280 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX018406.D
 Acq: 15 Sep 2020 15:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	79.3	47.5	142.6
145	33.3	15.7	47.1





#94

Hexachlorobutadiene

Concen: 0.247 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX018406.D

Acq: 15 Sep 2020 15:00

Instrument :

MSVOA_X

ClientSampleID :

40614DL

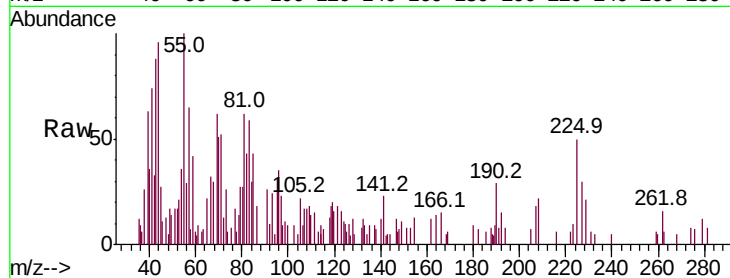
Tot Ion:225 Resp: 686

Ion Ratio Lower Upper

225 100

223 44.0 30.7 92.1

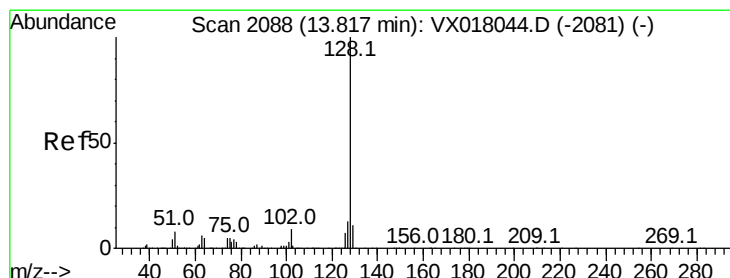
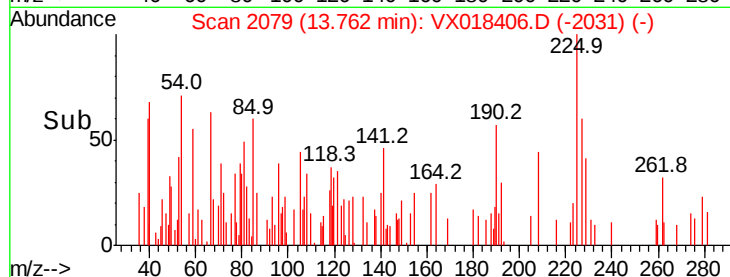
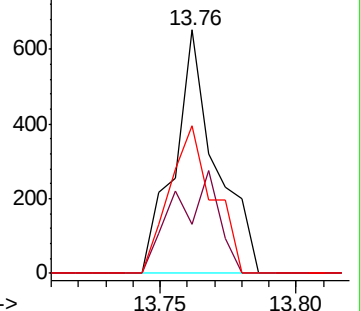
227 63.7 32.6 97.8



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.310 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX018406.D

Acq: 15 Sep 2020 15:00

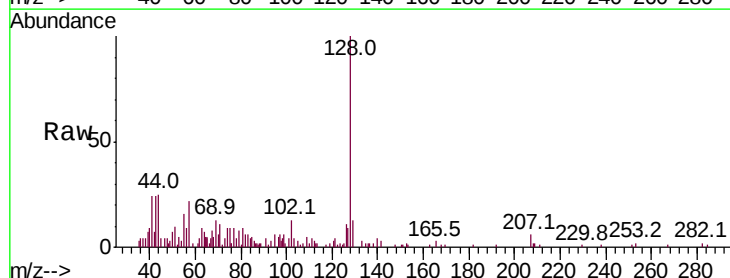
Tgt Ion:128 Resp: 7182

Ion Ratio Lower Upper

128 100

127 20.5 10.2 15.2#

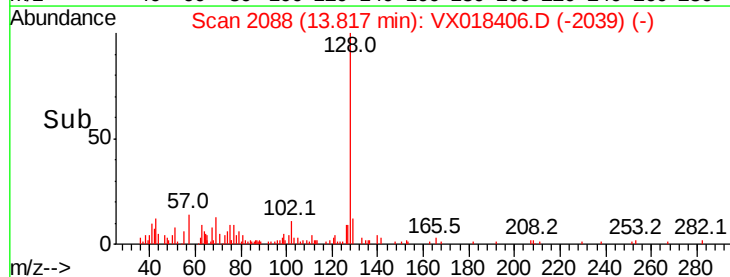
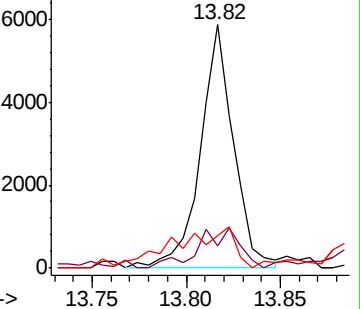
129 31.0 8.7 13.1#

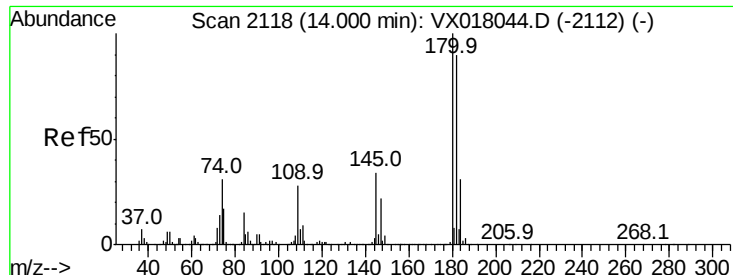


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 0.236 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. 0.01 min

Lab File: VX018406.D

Acq: 15 Sep 2020 15:00

Instrument :

MSVOA_X

ClientSampleId :

40614DL

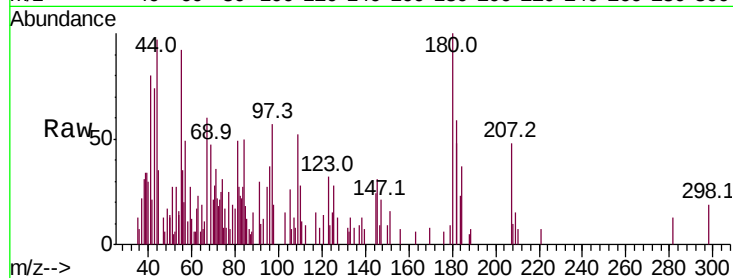
Tot Ion:180 Resp: 1639

Ion Ratio Lower Upper

180 100

182 102.7 47.3 142.0

145 41.8 17.5 52.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

