

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX091919\
 Data File : VX012529.D
 Acq On : 19 Sep 2019 15:34
 Operator : JC/SP
 Sample : K4883-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-20190911

Quant Time: Sep 20 04:33:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	188177	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	305080	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	257150	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	107269	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	127289	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	
35) Dibromofluoromethane	5.49	113	88480	47.92	ug/l	0.00
Spiked Amount			Recovery	=	95.84%	
50) Toluene-d8	8.71	98	349140	51.08	ug/l	0.00
Spiked Amount			Recovery	=	102.16%	
62) 4-Bromofluorobenzene	11.14	95	128511	45.28	ug/l	0.00
Spiked Amount			Recovery	=	90.56%	

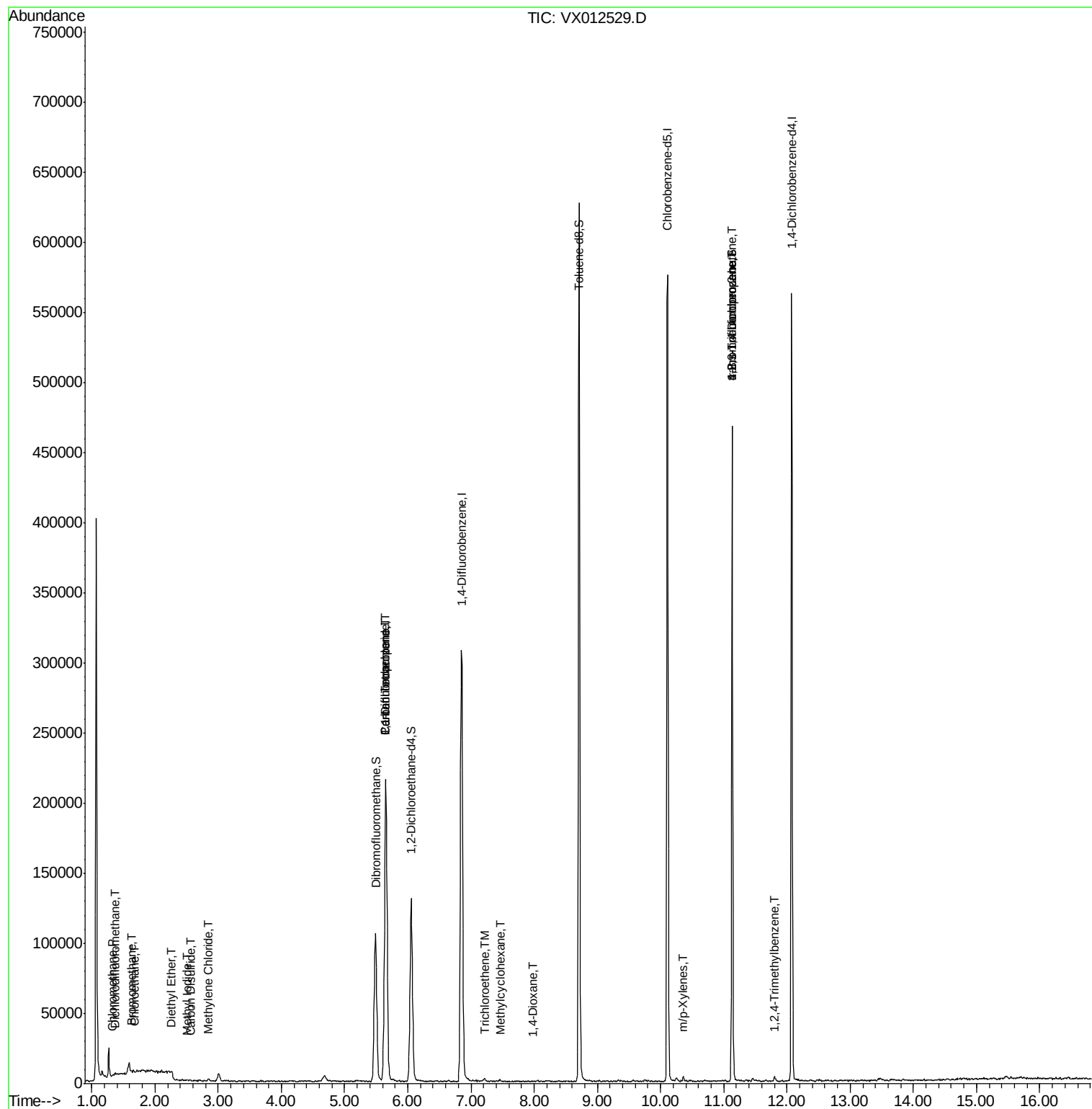
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.36	85	25	0.411	ug/l #	43
3) Chloromethane	1.32	50	325	0.314	ug/l #	43
5) Bromomethane	1.63	94	341	0.776	ug/l #	62
6) Chloroethane	1.67	64	2184	2.496	ug/l #	45
8) Diethyl Ether	2.25	74	301	0.325	ug/l	60
10) Methyl Iodide	2.51	142	177	4.569	ug/l #	84
11) Tert butyl alcohol	3.01	59	3498	Below Cal	#	83
13) Acrolein	2.26	56	106	Below Cal	#	1
16) Acetone	2.43	43	335	Below Cal	#	65
17) Carbon Disulfide	2.56	76	135	1.884	ug/l #	75
20) Methylene Chloride	2.84	84	588	0.360	ug/l #	76
36) 1,1-Dichloropropene	5.65	75	15946	8.600	ug/l #	49
38) Carbon Tetrachloride	5.65	117	21301	9.237	ug/l #	16
39) Methylcyclohexane	7.46	83	607	0.337	ug/l #	74
44) Trichloroethene	7.22	130	709	0.457	ug/l	73
49) 1,4-Dioxane	7.98	88	19	0.324	ug/l #	1
68) m/p-Xylenes	10.36	106	705	0.266	ug/l	89
76) 1,2,3-Trichloropropane	11.14	75	66386	26.942	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	66386	72.481	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.81	105	1488	0.252	ug/l	95

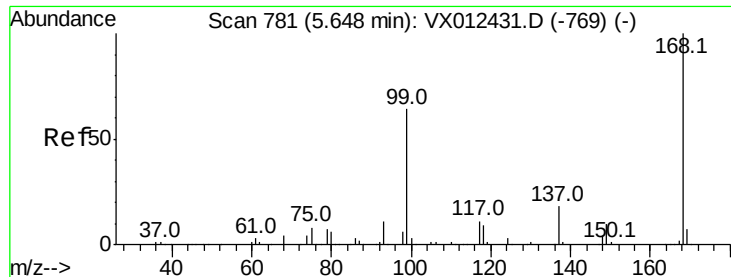
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 17 15:27:10 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012529.D

Acq: 19 Sep 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

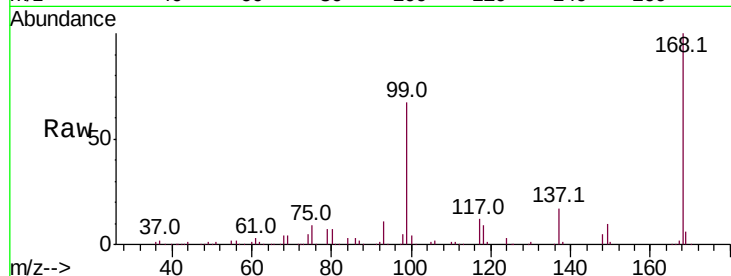
TB-20190911

Tot Ion:168 Resp: 188177

Ion Ratio Lower Upper

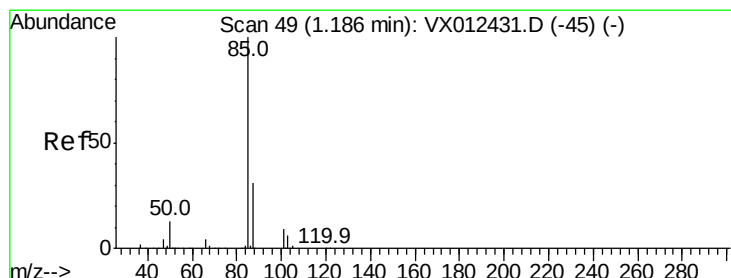
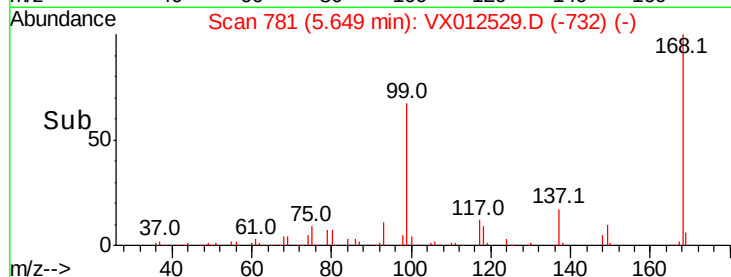
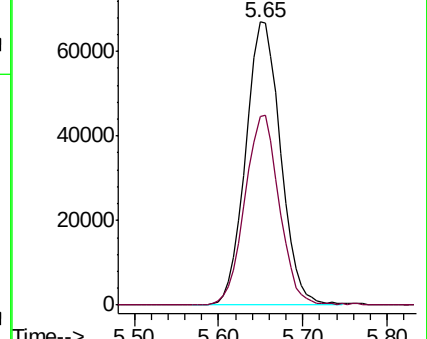
168 100

99 66.7 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.411 ug/l

RT: 1.36 min Scan# 78

Delta R.T. 0.18 min

Lab File: VX012529.D

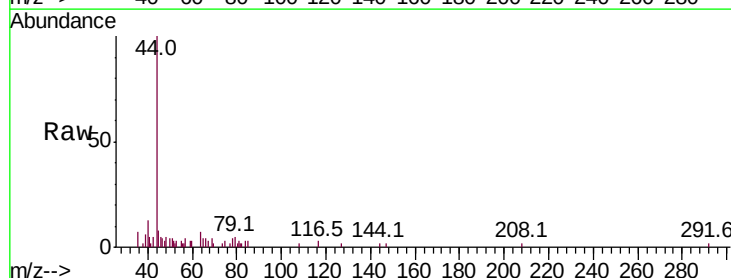
Acq: 19 Sep 2019 15:34

Tgt Ion: 85 Resp: 25

Ion Ratio Lower Upper

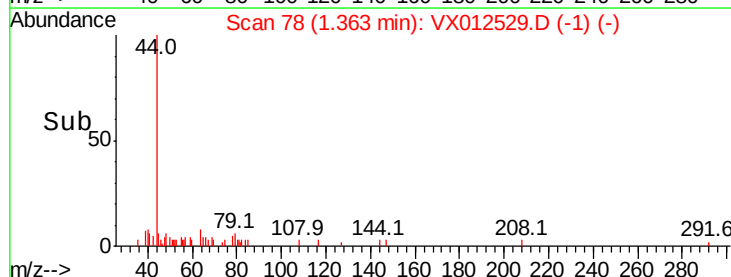
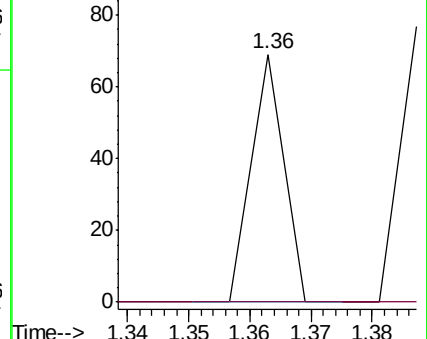
85 100

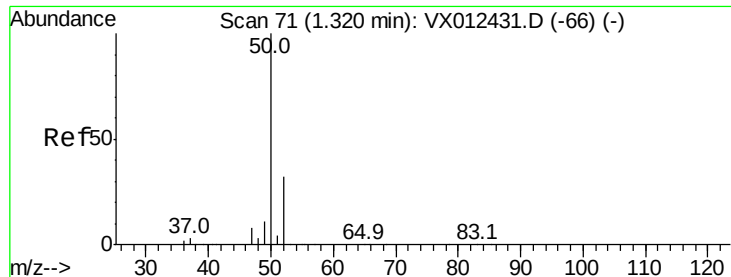
87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.314 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012529.D

Acq: 19 Sep 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

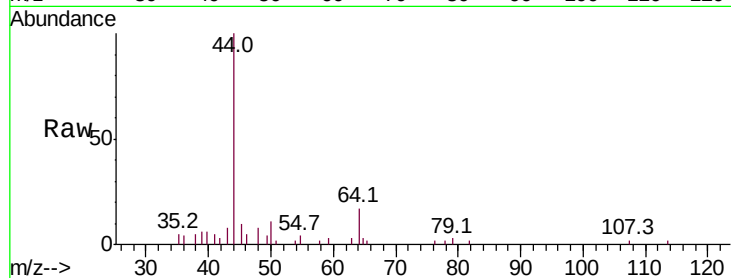
TB-20190911

Tot Ion: 50 Resp: 325

Ion Ratio Lower Upper

50 100

52 0.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

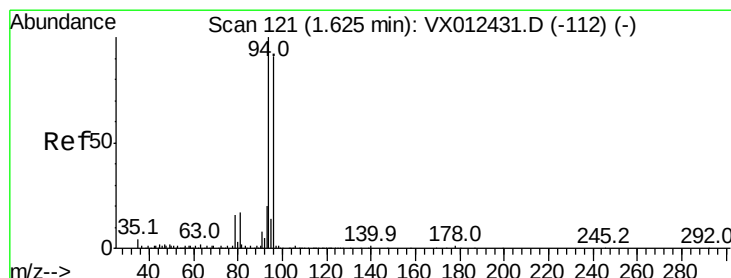
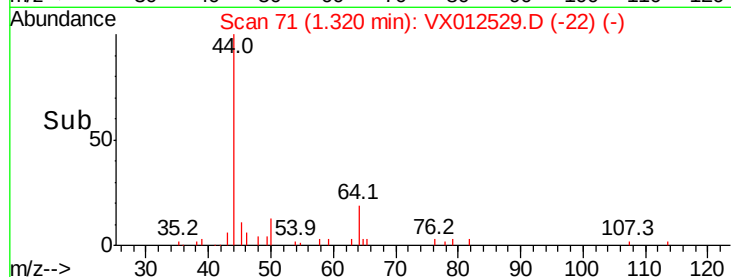
200

100

0

1.30 1.32 1.34 1.36

Time-->



#5

Bromomethane

Concen: 0.776 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX012529.D

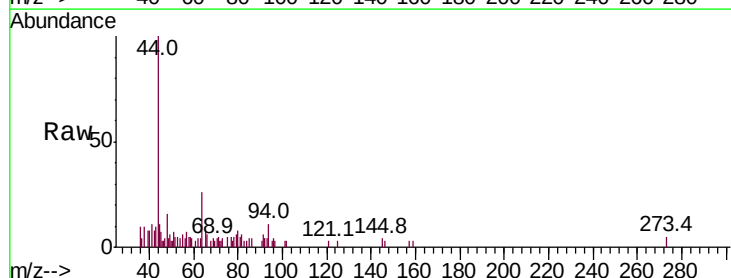
Acq: 19 Sep 2019 15:34

Tgt Ion: 94 Resp: 341

Ion Ratio Lower Upper

94 100

96 54.7 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

200

150

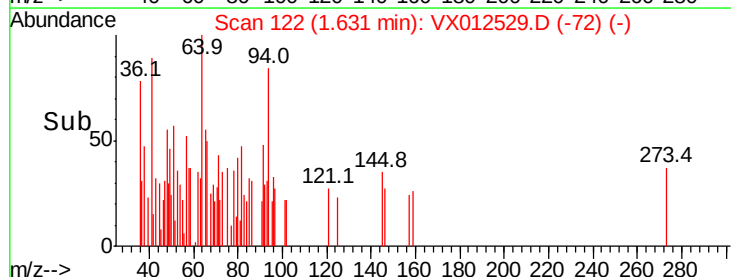
100

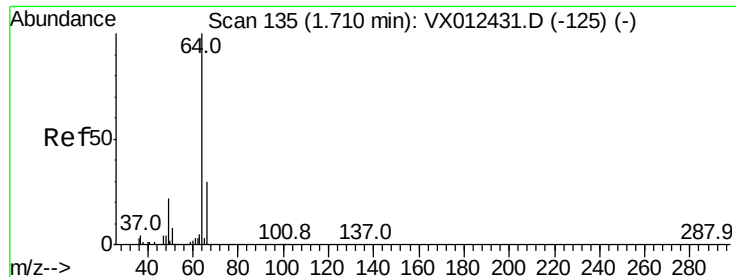
50

0

1.60 1.65

Time-->





#6

Chloroethane

Concen: 2.496 ug/l

RT: 1.67 min Scan# 129

Delta R.T. -0.04 min

Lab File: VX012529.D

Acq: 19 Sep 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

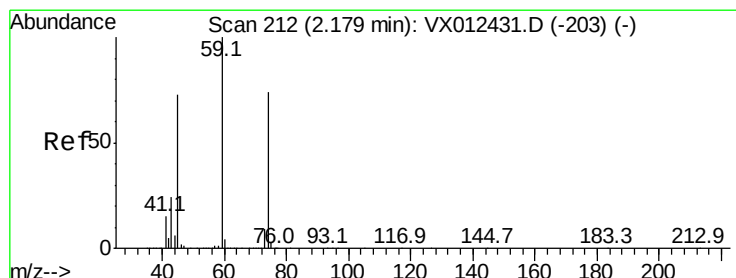
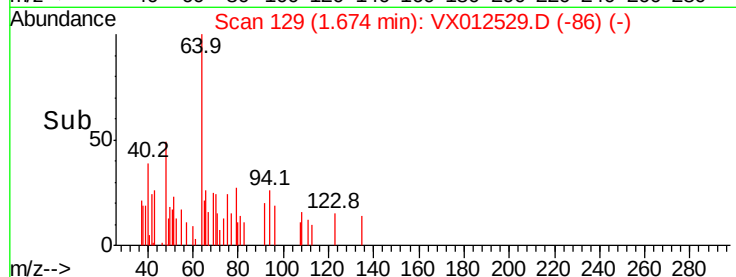
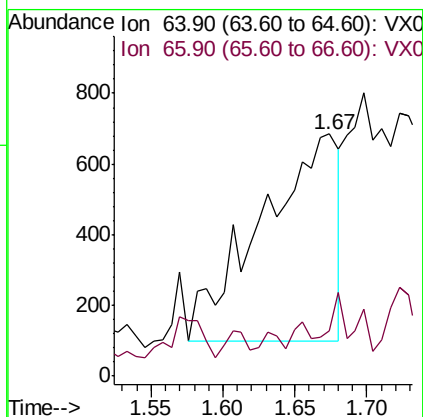
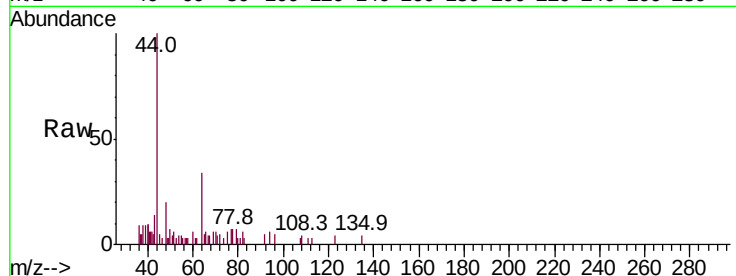
TB-20190911

Tot Ion: 64 Resp: 2184

Ion Ratio Lower Upper

64 100

66 0.0 24.0 36.0#



#8

Diethyl Ether

Concen: 0.325 ug/l

RT: 2.25 min Scan# 224

Delta R.T. 0.07 min

Lab File: VX012529.D

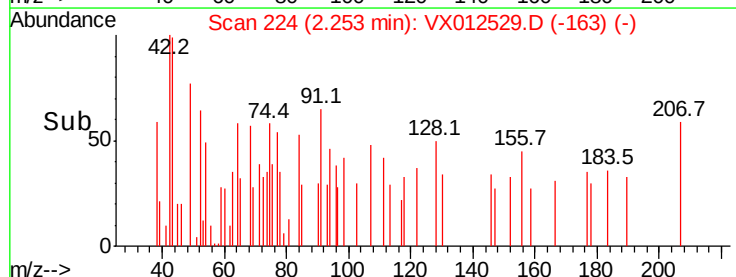
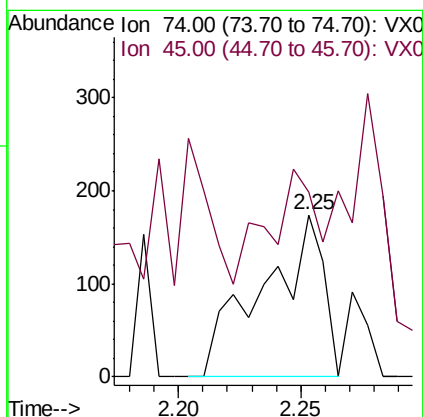
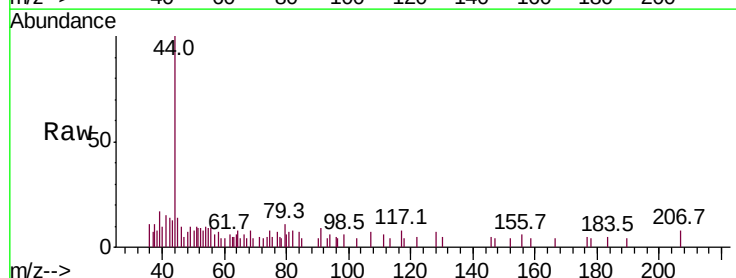
Acq: 19 Sep 2019 15:34

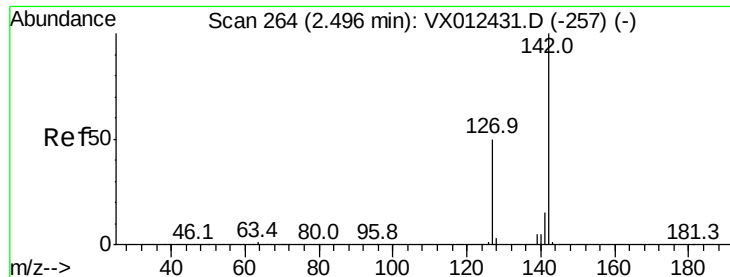
Tgt Ion: 74 Resp: 301

Ion Ratio Lower Upper

74 100

45 60.1 49.9 149.7

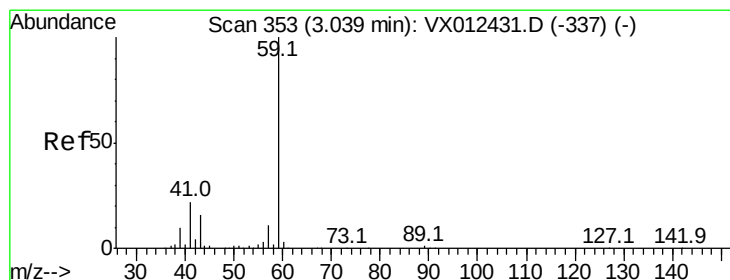
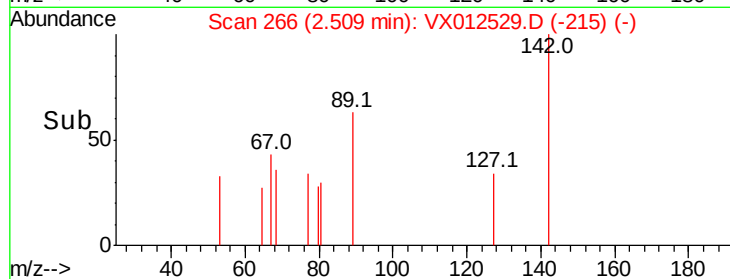
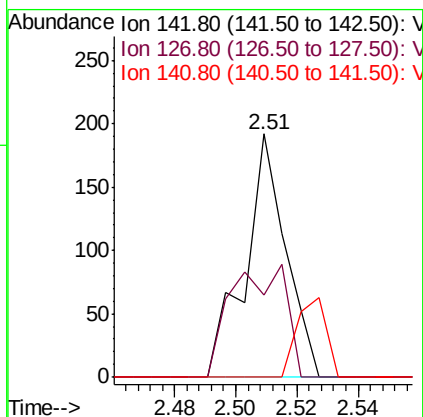
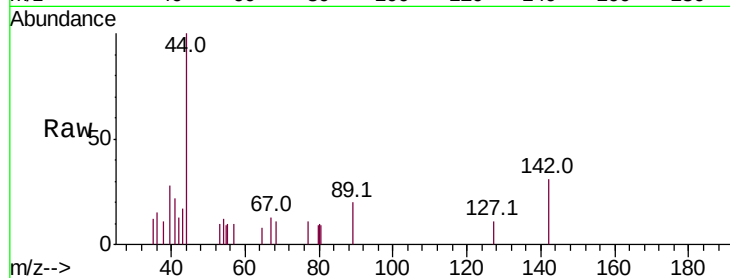




#10
Methvl Iodide
Concen: 4.569 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX012529.D
Acq: 19 Sep 2019 15:34

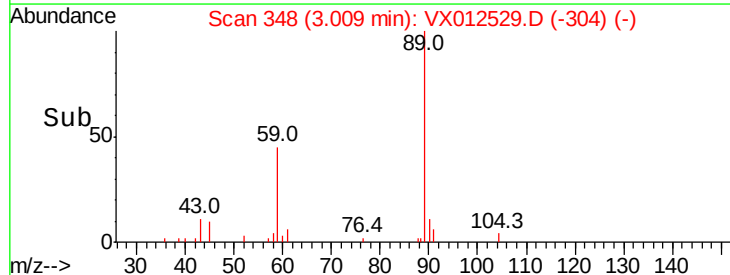
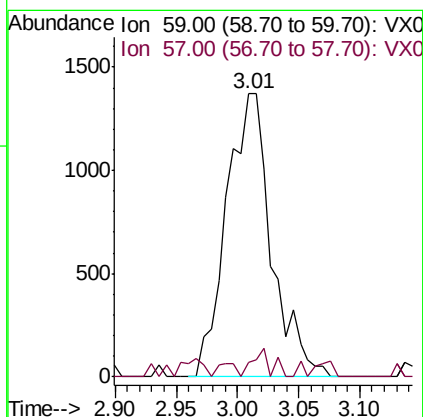
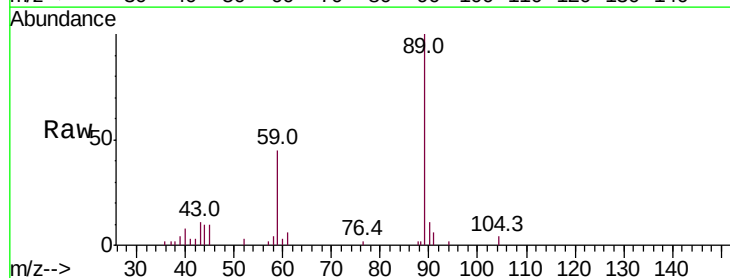
Instrument :
MSVOA_X
ClientSampled :
TB-20190911

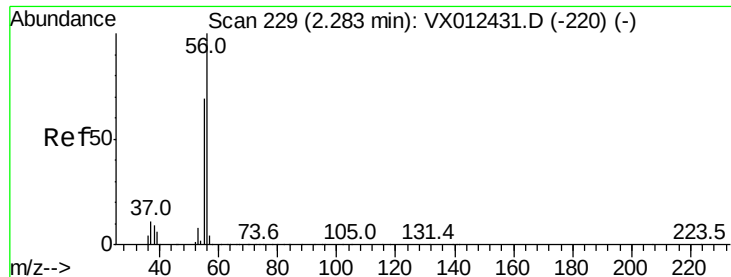
Tot Ion:142 Resp: 177
Ion Ratio Lower Upper
142 100
127 61.6 40.8 61.2#
141 23.7 12.1 18.1#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.01 min Scan# 348
Delta R.T. -0.03 min
Lab File: VX012529.D
Acq: 19 Sep 2019 15:34

Tgt Ion: 59 Resp: 3498
Ion Ratio Lower Upper
59 100
57 4.0 8.3 12.5#





#13

Acrolein

Concen: Below Cal

RT: 2.26 min Scan# 225

Delta R.T. -0.02 min

Lab File: VX012529.D

Acq: 19 Sep 2019 15:34

Instrument :

MSVOA_X

ClientSampled :

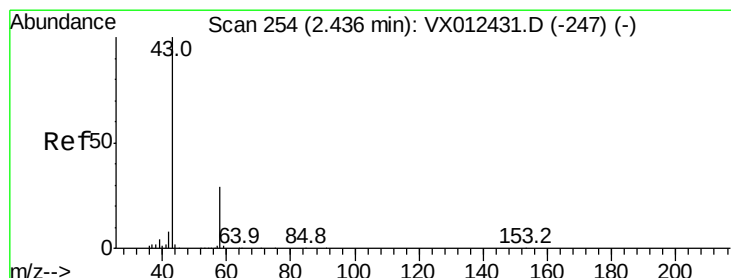
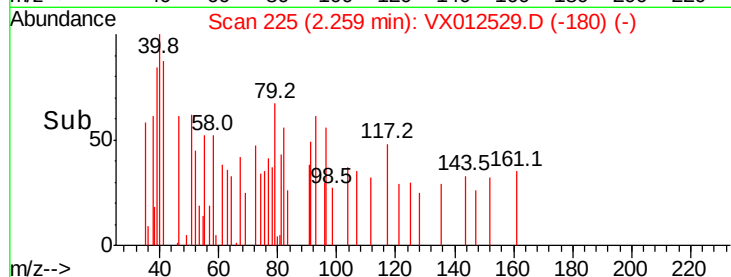
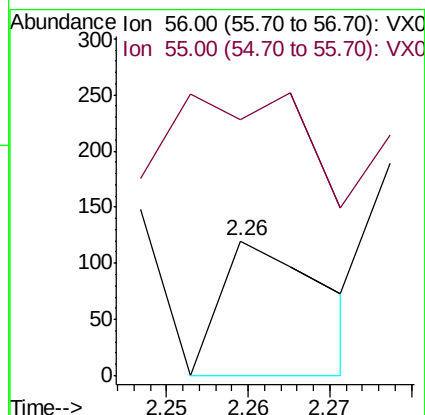
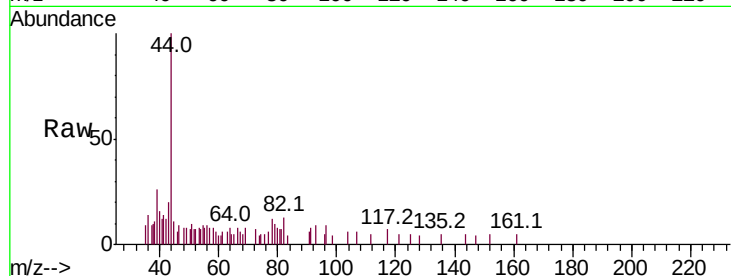
TB-20190911

Tot Ion: 56 Resp: 106

Ion Ratio Lower Upper

56 100

55 371.7 55.8 83.8#



#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012529.D

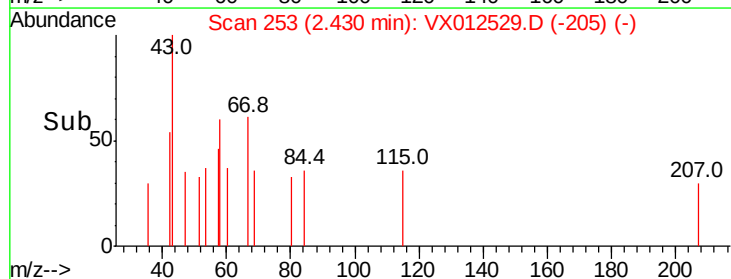
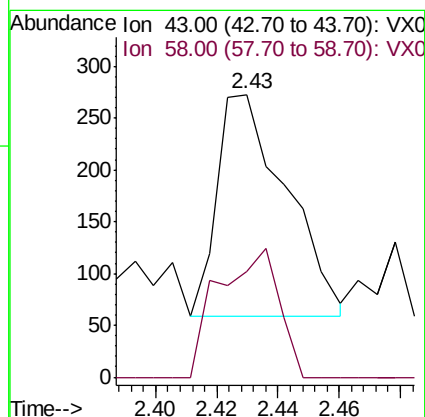
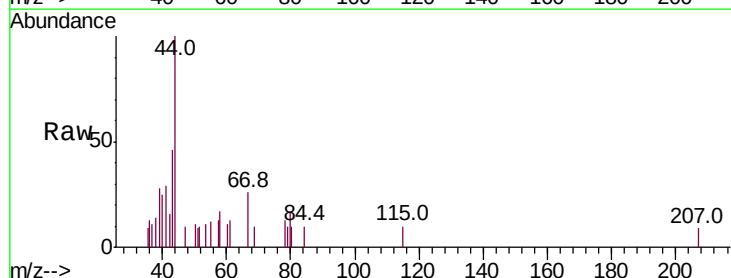
Acq: 19 Sep 2019 15:34

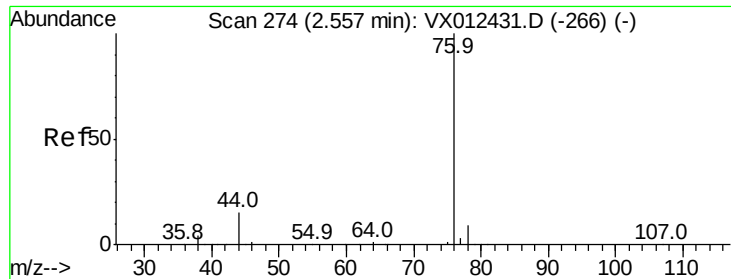
Tgt Ion: 43 Resp: 335

Ion Ratio Lower Upper

43 100

58 47.7 23.3 34.9#





#17

Carbon Disulfide

Concen: 1.884 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX012529.D

Acq: 19 Sep 2019 15:34

Instrument :

MSVOA_X

ClientSampled :

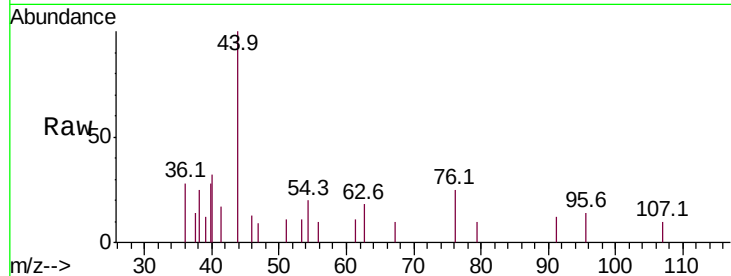
TB-20190911

Tot Ion: 76 Resp: 135

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

150

100

50

0

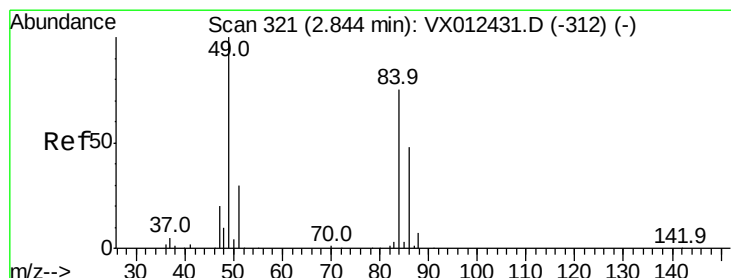
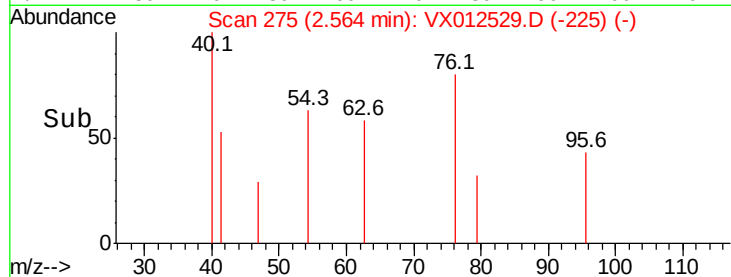
2.54

2.56

2.58

2.60

Time-->



#20

Methylene Chloride

Concen: 0.360 ug/l

RT: 2.84 min Scan# 321

Delta R.T. 0.00 min

Lab File: VX012529.D

Acq: 19 Sep 2019 15:34

Tgt Ion: 84 Resp: 588

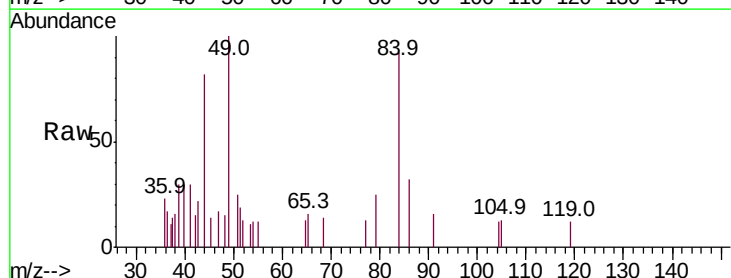
Ion Ratio Lower Upper

84 100

49 108.5 106.8 160.2

51 48.6 32.3 48.5#

86 34.9 51.3 76.9#



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

600

400

200

0

2.80

2.84

2.85

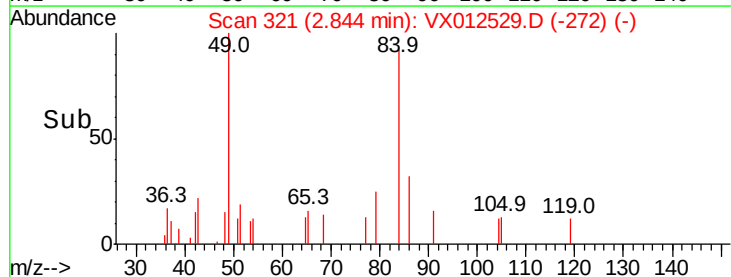
2.86

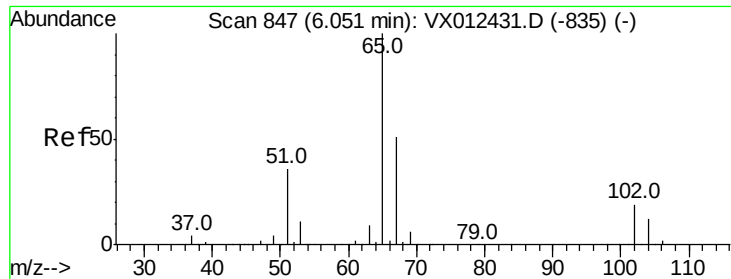
2.87

2.88

2.89

Time-->

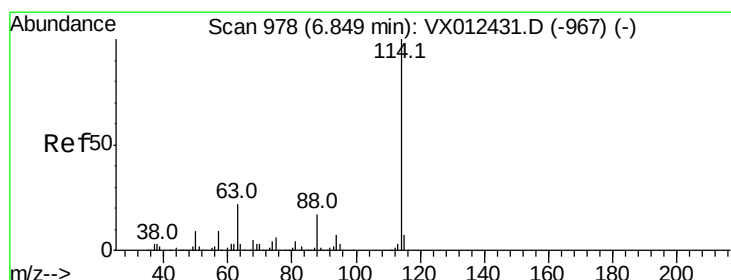
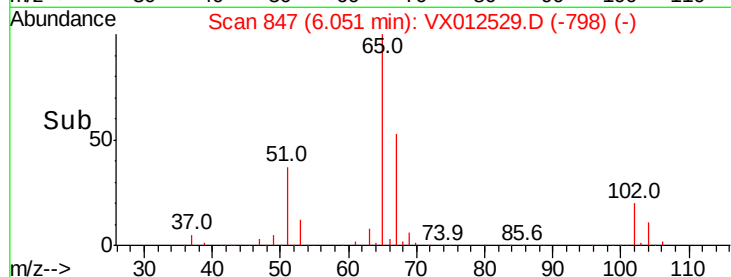
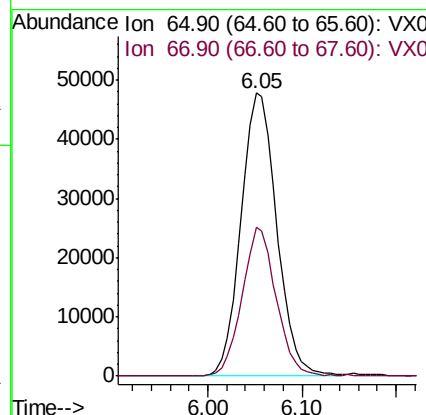
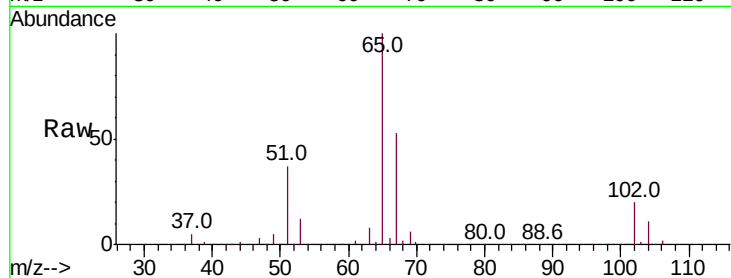




#33
 1,2-Dichloroethane-d4
 Concen: 47.197 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX012529.D
 Acq: 19 Sep 2019 15:34

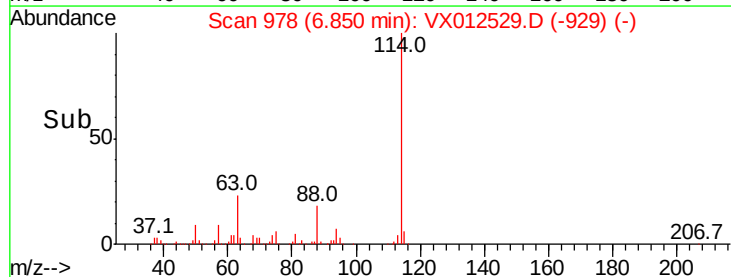
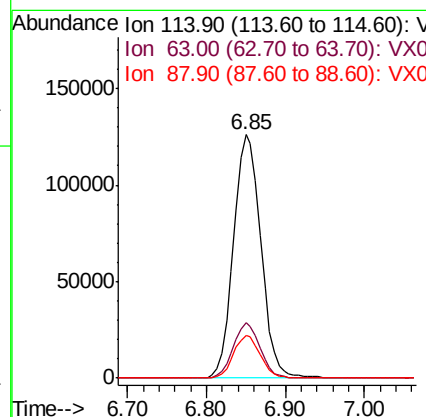
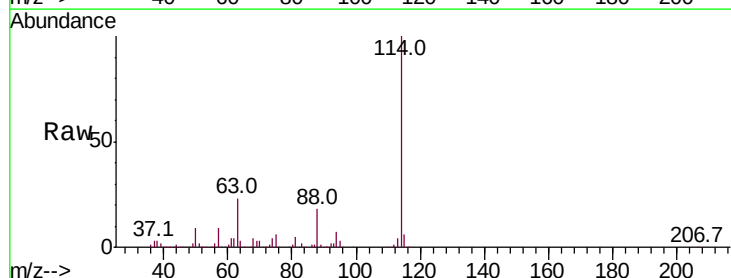
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 TB-20190911

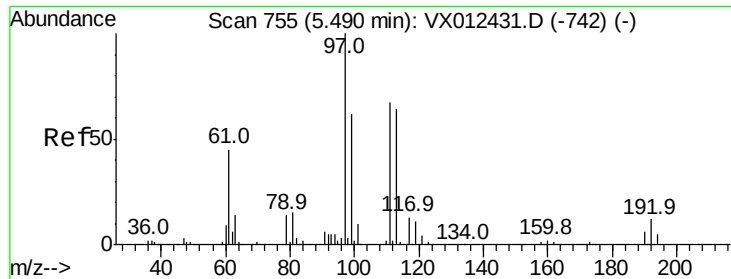
Tot Ion: 65 Resp: 127289
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012529.D
 Acq: 19 Sep 2019 15:34

Tgt Ion: 114 Resp: 305080
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 43.2
 88 17.6 0.0 33.2

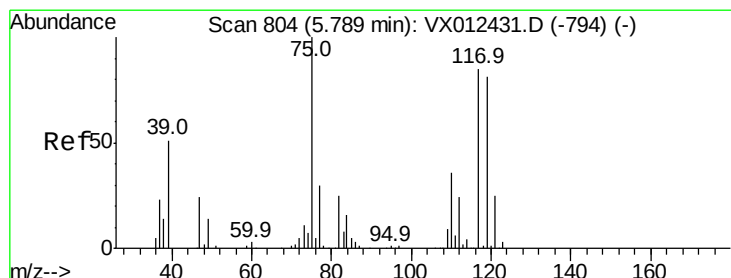
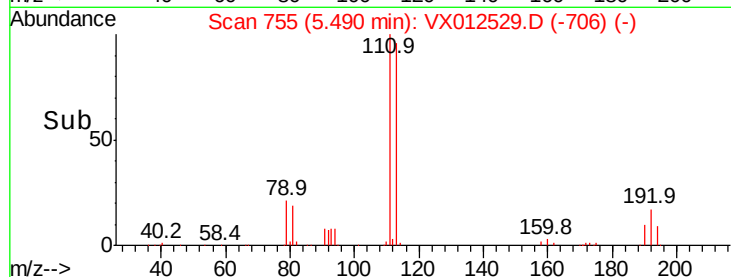
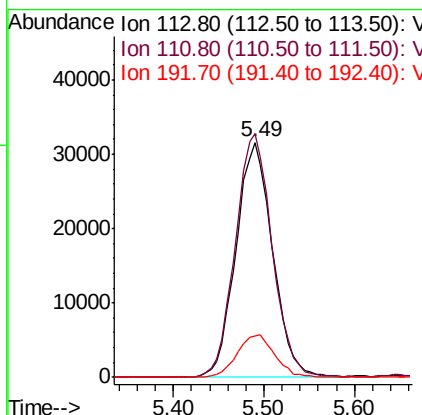
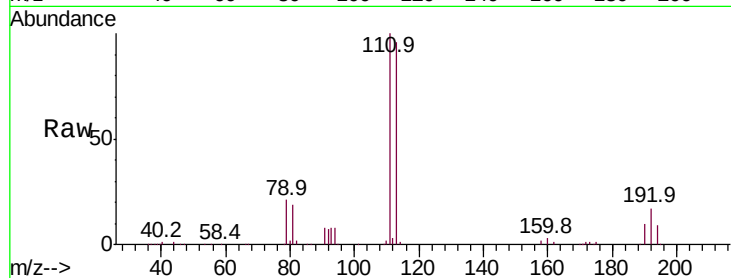




#35
 Dibromofluoromethane
 Concen: 47.917 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012529.D
 Acq: 19 Sep 2019 15:34

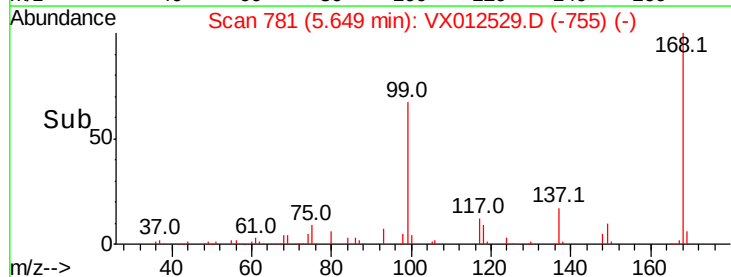
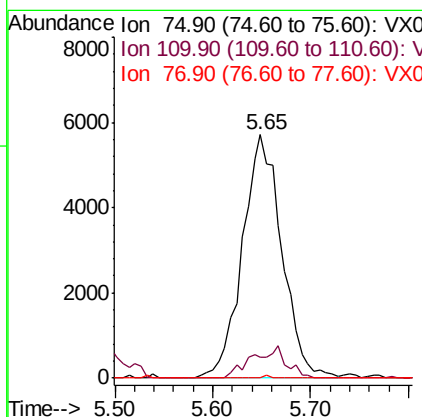
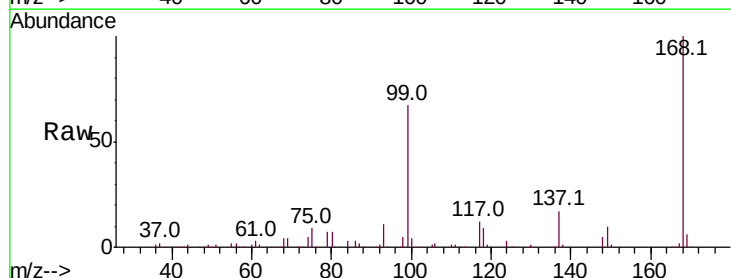
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-20190911

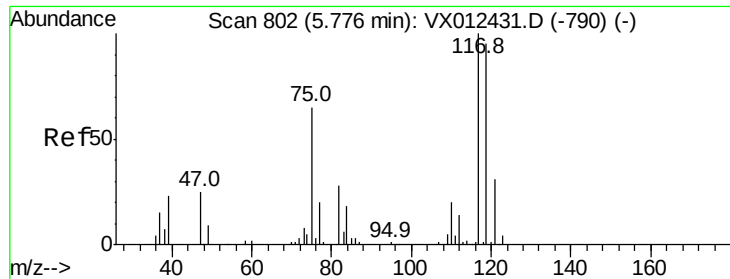
Tot Ion:113 Resp: 88480
 Ion Ratio Lower Upper
 113 100
 111 104.4 83.4 125.2
 192 18.6 14.4 21.6



#36
 1,1-Dichloropropene
 Concen: 8.600 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012529.D
 Acq: 19 Sep 2019 15:34

Tgt Ion: 75 Resp: 15946
 Ion Ratio Lower Upper
 75 100
 110 6.1 16.7 50.0#
 77 0.2 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 9.237 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012529.D

Acq: 19 Sep 2019 15:34

Instrument :

MSVOA_X

ClientSampled :

TB-20190911

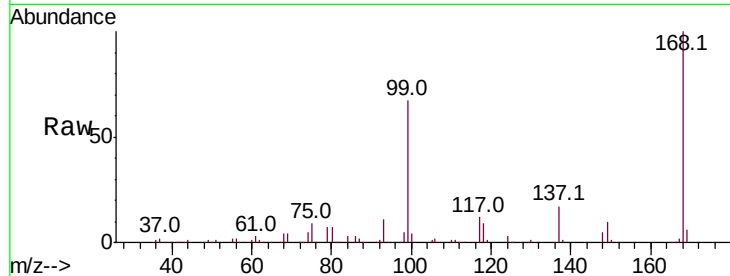
Tot Ion:117 Resp: 21301

Ion Ratio Lower Upper

117 100

119 4.7 75.7 113.5#

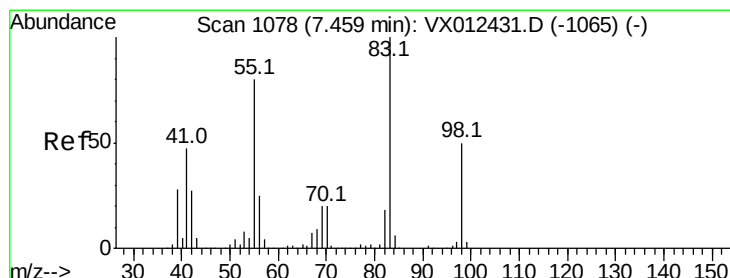
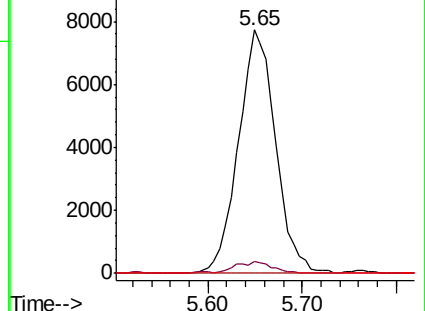
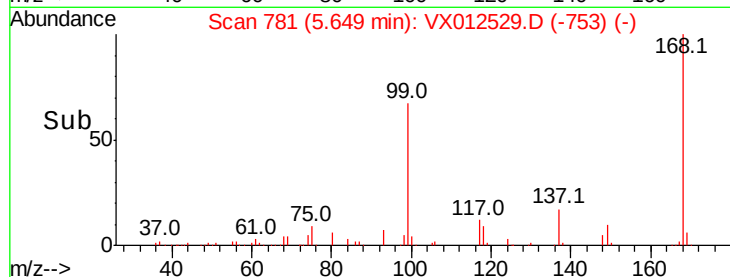
121 0.0 24.2 36.4#



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: 0.337 ug/l

RT: 7.46 min Scan# 1078

Delta R.T. 0.00 min

Lab File: VX012529.D

Acq: 19 Sep 2019 15:34

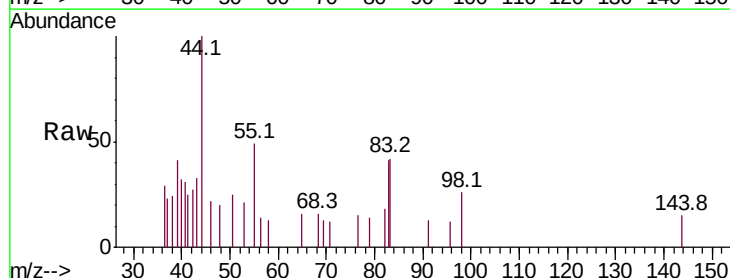
Tgt Ion: 83 Resp: 607

Ion Ratio Lower Upper

83 100

55 59.2 64.4 96.6#

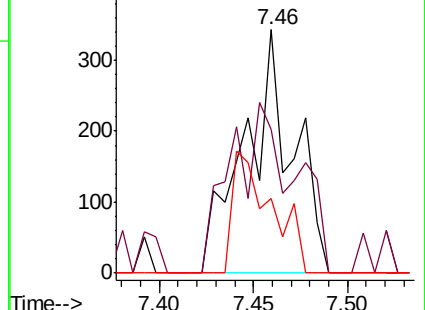
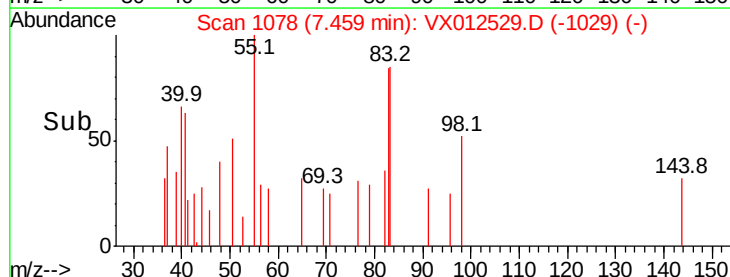
98 30.9 40.1 60.1#

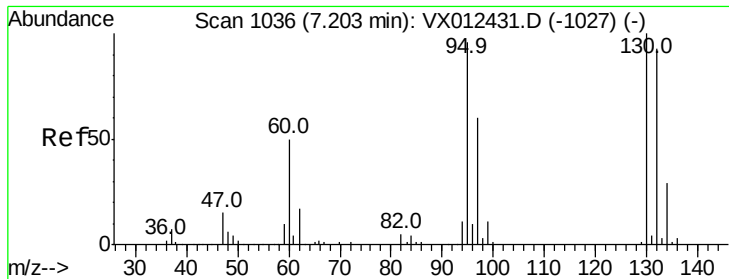


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 0.457 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX012529.D

Acq: 19 Sep 2019 15:34

Instrument :

MSVOA_X

ClientSampled :

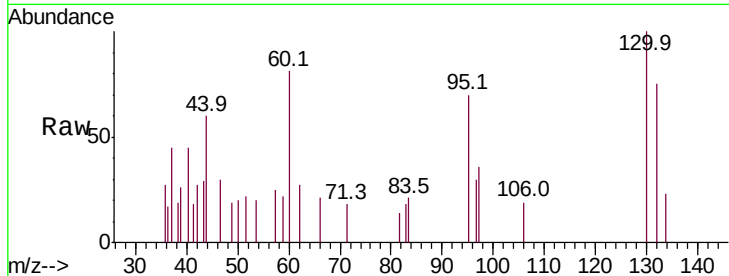
TB-20190911

Tot Ion:130 Resp: 709

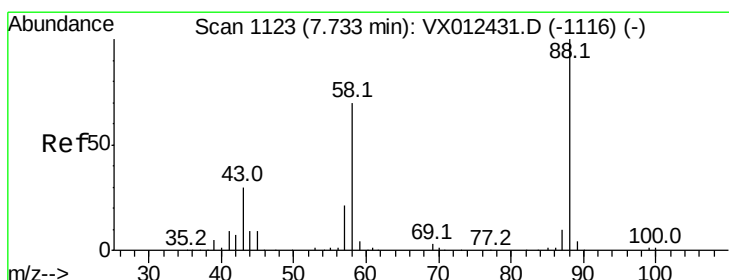
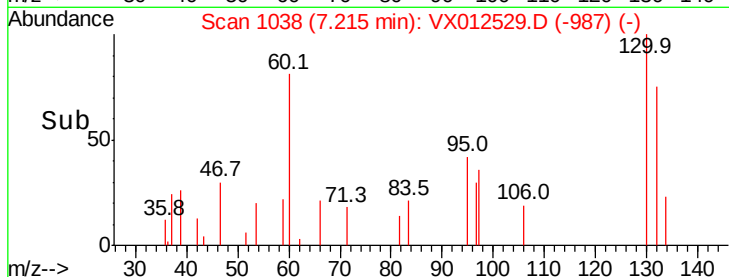
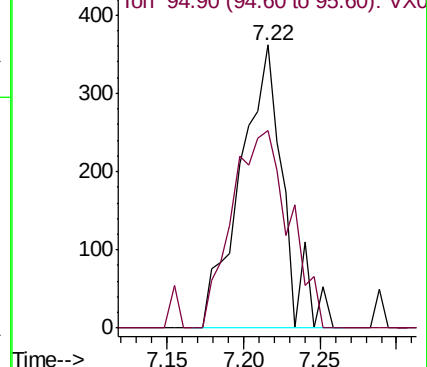
Ion Ratio Lower Upper

130 100

95 69.9 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V



#49

1,4-Dioxane

Concen: 0.324 ug/l

RT: 7.98 min Scan# 1164

Delta R.T. 0.25 min

Lab File: VX012529.D

Acq: 19 Sep 2019 15:34

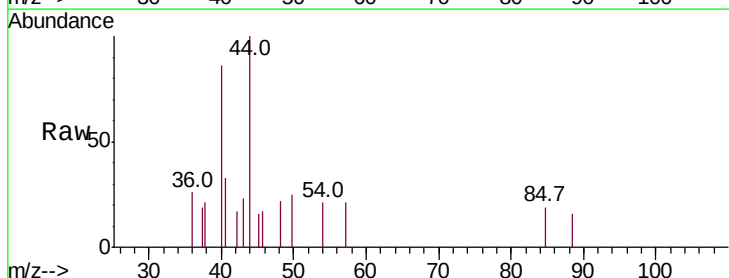
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

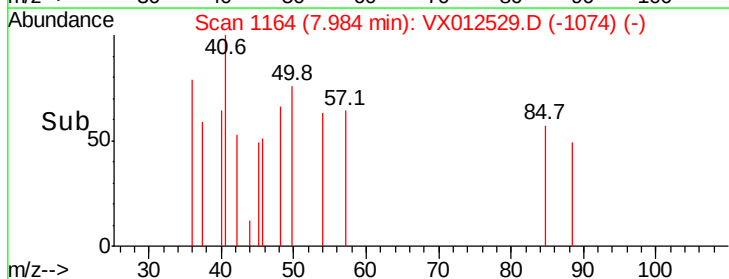
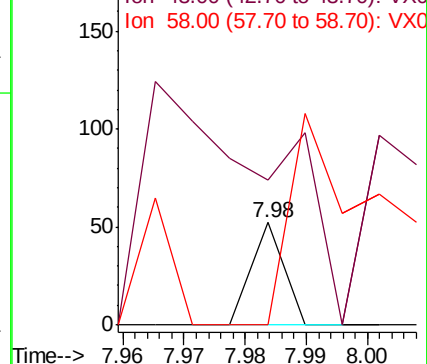
88 100

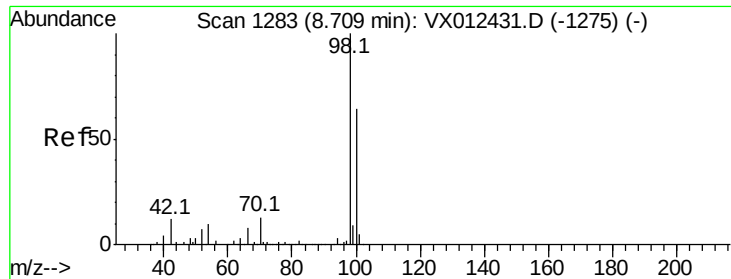
43 347.4 29.4 44.0#

58 547.4 57.5 86.3#



Abundance Ion 88.00 (87.70 to 88.70): VX0

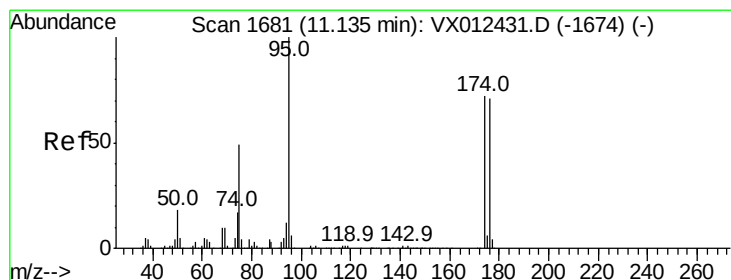
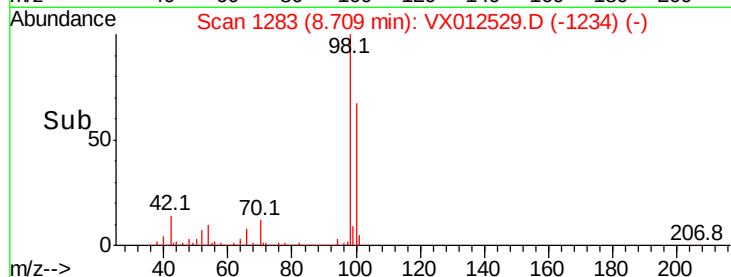
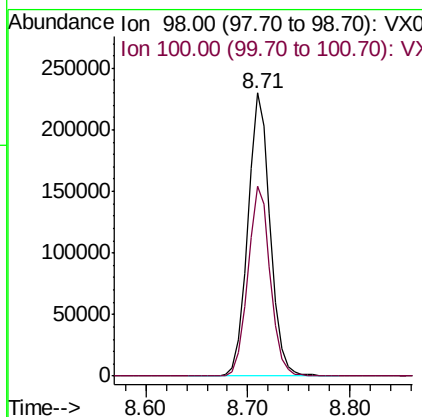
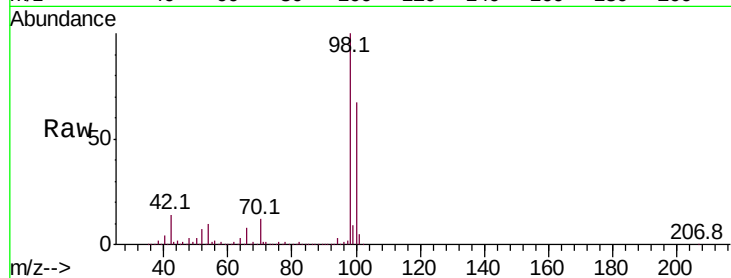




#50
Toluene-d8
Concen: 51.083 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012529.D
Acq: 19 Sep 2019 15:34

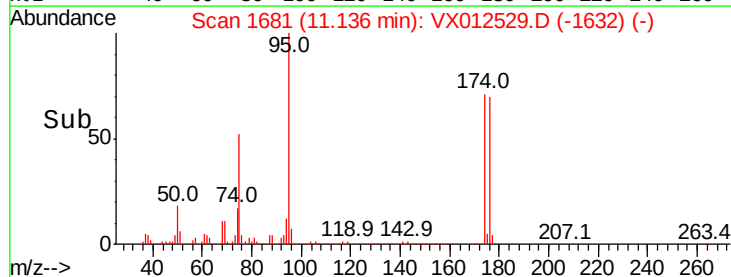
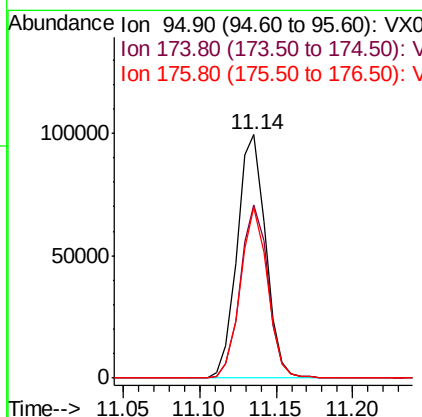
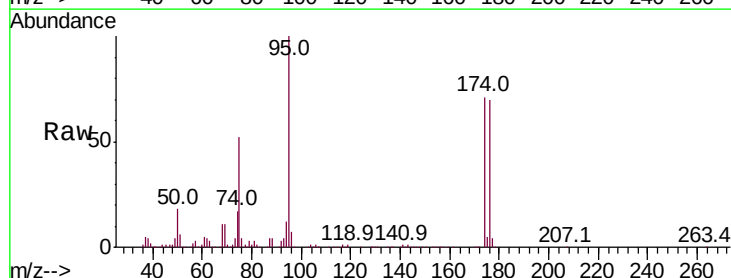
Instrument :
MSVOA_X
ClientSampled :
TB-20190911

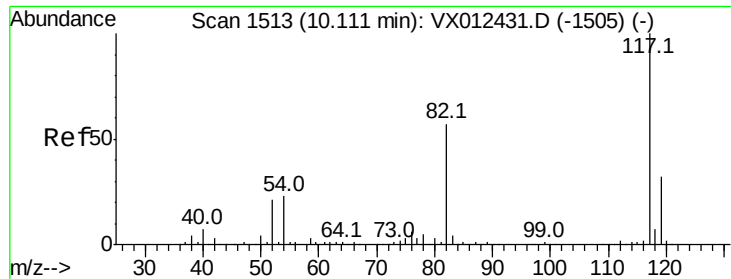
Tot Ion: 98 Resp: 349140
Ion Ratio Lower Upper
98 100
100 67.3 53.4 80.2



#62
4-Bromofluorobenzene
Concen: 45.284 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX012529.D
Acq: 19 Sep 2019 15:34

Tgt Ion: 95 Resp: 128511
Ion Ratio Lower Upper
95 100
174 69.6 0.0 140.0
176 67.1 0.0 135.4

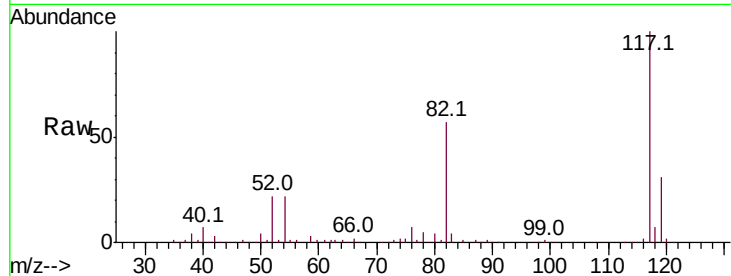




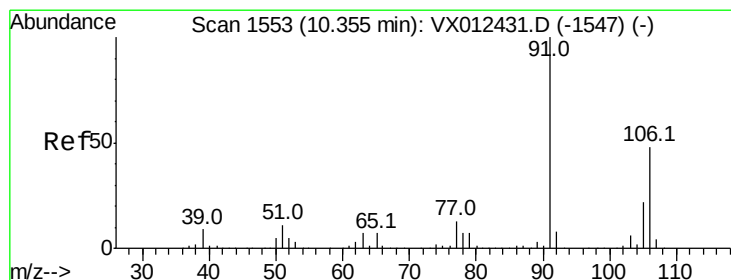
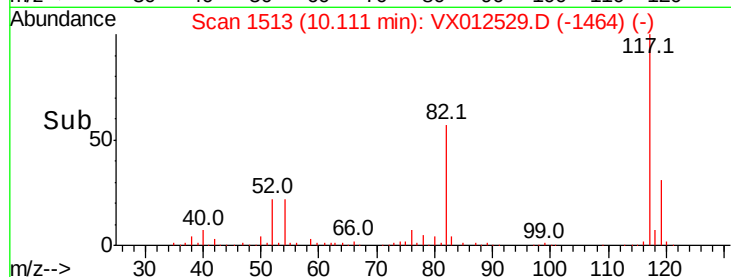
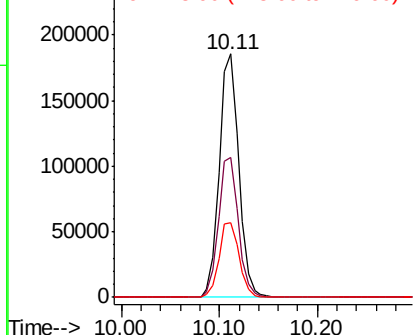
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012529.D
Acq: 19 Sep 2019 15:34

Instrument :
MSVOA_X
ClientSampleId :
TB-20190911

Tot Ion:117 Resp: 257150
Ion Ratio Lower Upper
117 100
82 57.3 45.9 68.9
119 30.9 25.3 37.9

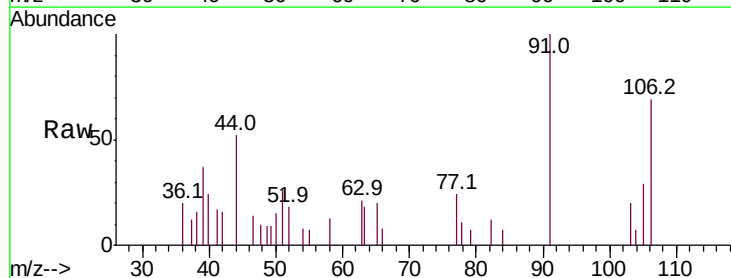


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

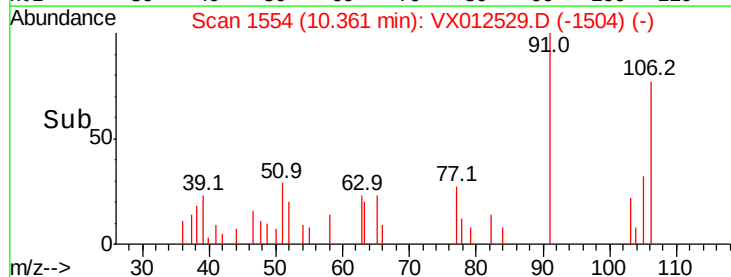
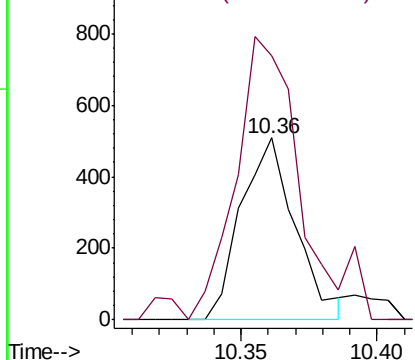


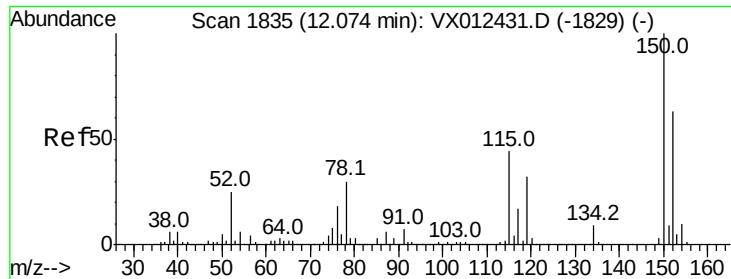
#68
m/p-Xylenes
Concen: 0.266 ug/l
RT: 10.36 min Scan# 1554
Delta R.T. 0.01 min
Lab File: VX012529.D
Acq: 19 Sep 2019 15:34

Tgt Ion:106 Resp: 705
Ion Ratio Lower Upper
106 100
91 191.2 166.6 250.0



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012529.D

Acq: 19 Sep 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

TB-20190911

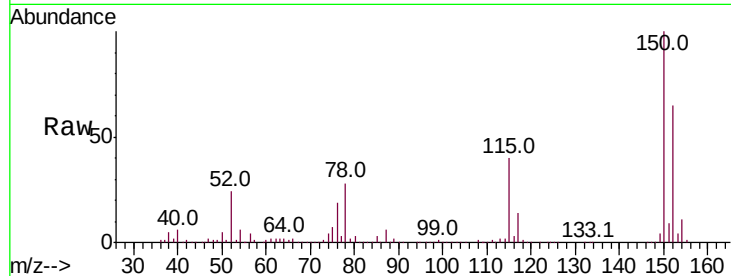
Tot Ion:152 Resp: 107269

Ion Ratio Lower Upper

152 100

115 62.9 44.1 132.3

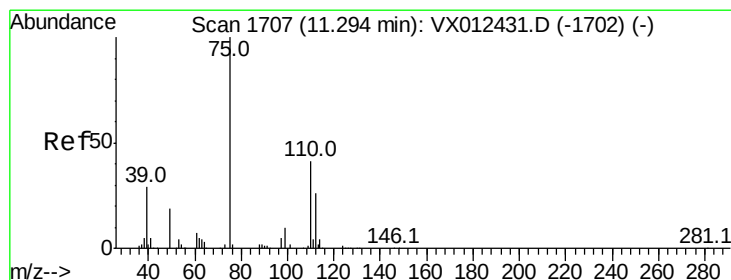
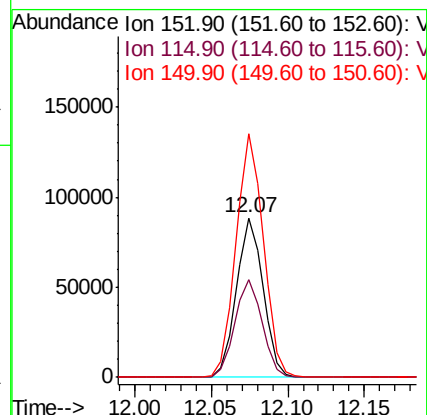
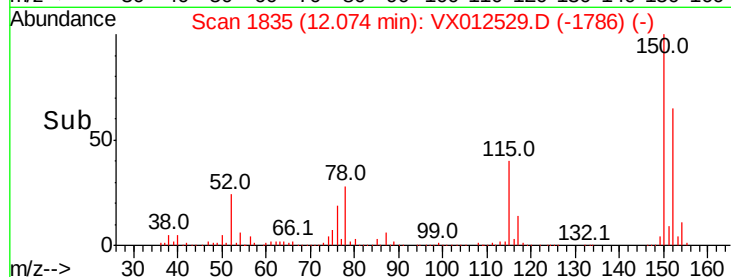
150 156.4 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.942 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012529.D

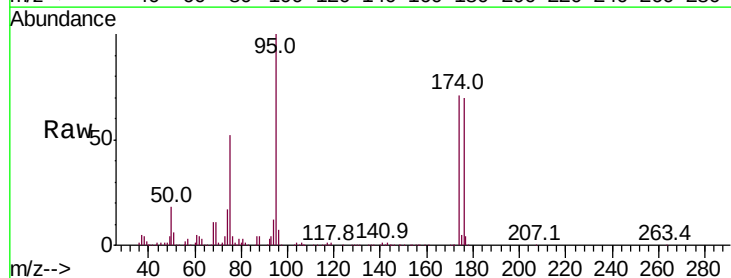
Acq: 19 Sep 2019 15:34

Tgt Ion: 75 Resp: 66386

Ion Ratio Lower Upper

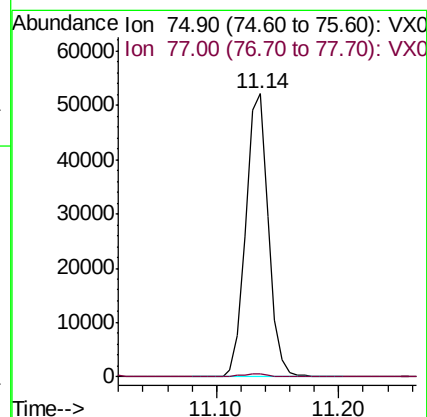
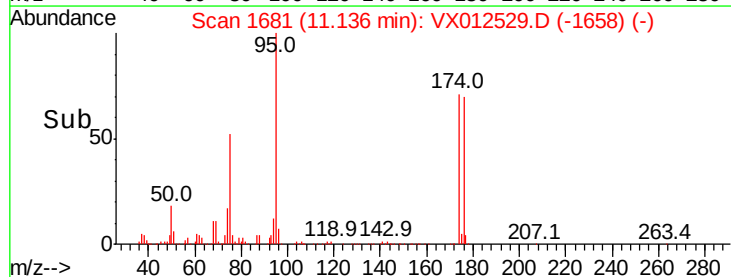
75 100

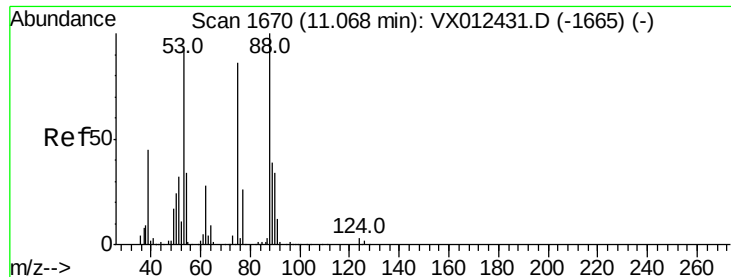
77 1.3 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 72.481 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012529.D

Acq: 19 Sep 2019 15:34

Instrument :

MSVOA_X

ClientSampled :

TB-20190911

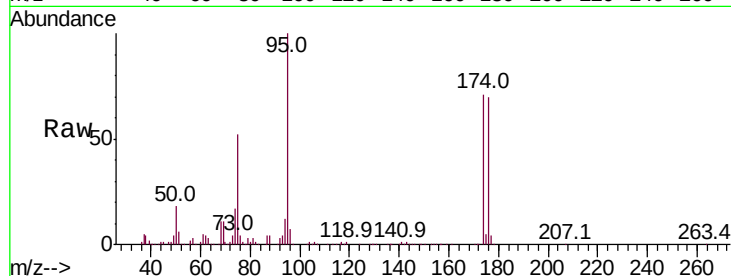
Tot Ion: 75 Resp: 66386

Ion Ratio Lower Upper

75 100

53 0.1 83.6 125.4#

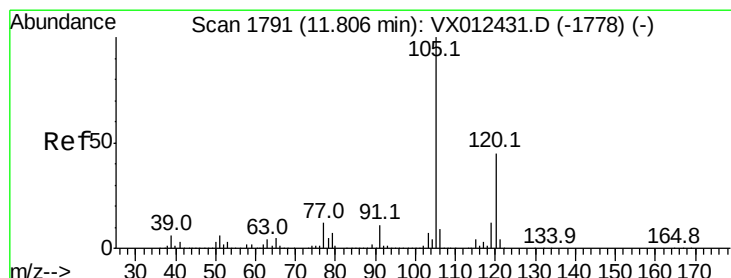
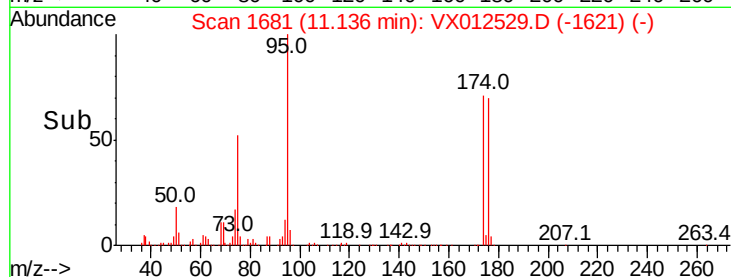
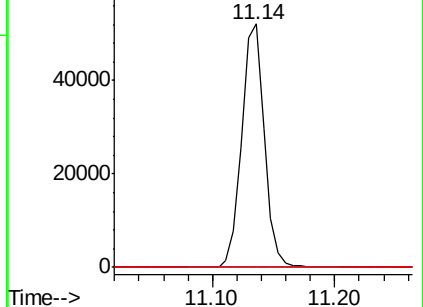
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 0.252 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX012529.D

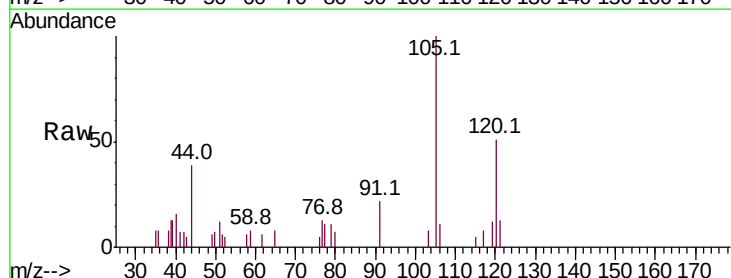
Acq: 19 Sep 2019 15:34

Tgt Ion:105 Resp: 1488

Ion Ratio Lower Upper

105 100

120 47.8 22.2 66.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

