

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051820\
 Data File : VX016297.D
 Acq On : 18 May 2020 14:27
 Operator : JC/SP
 Sample : VX0518WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 19 00:43:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	320242	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	513639	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	495462	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	246239	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	179326	42.55	ug/l	0.00
Spiked Amount			Recovery	=	85.10%	
35) Dibromofluoromethane	5.46	113	147064	45.19	ug/l	0.00
Spiked Amount			Recovery	=	90.38%	
50) Toluene-d8	8.70	98	620077	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
62) 4-Bromofluorobenzene	11.12	95	247225	51.84	ug/l	0.00
Spiked Amount			Recovery	=	103.68%	

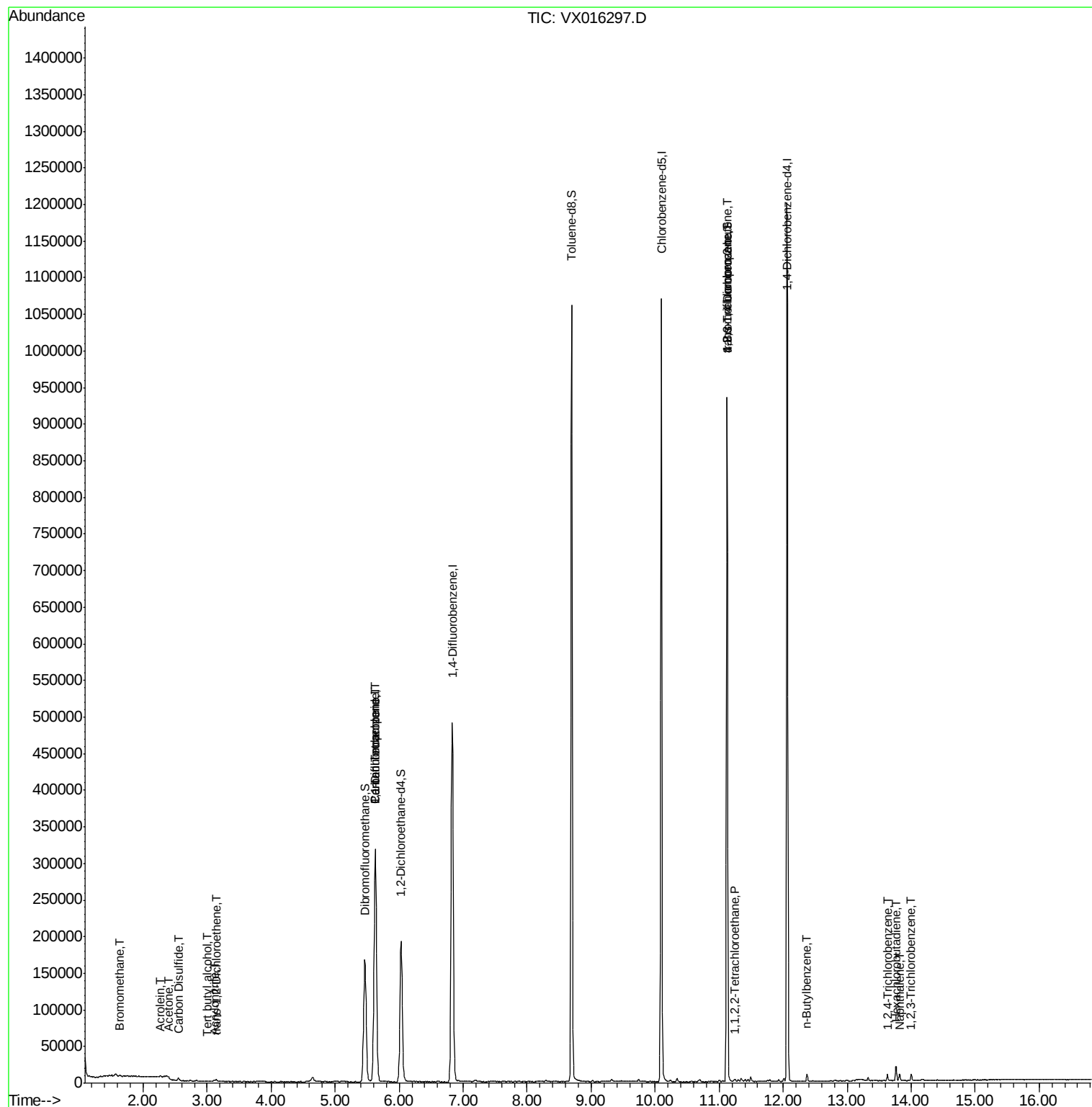
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	680	0.321	ug/l #	62
11) Tert butyl alcohol	3.00	59	308	0.289	ug/l #	75
13) Acrolein	2.27	56	1215	1.822	ug/l #	77
15) Acrylonitrile	3.12	53	1480	0.669	ug/l	96
16) Acetone	2.40	43	585	0.311	ug/l	96
17) Carbon Disulfide	2.55	76	4823	0.277	ug/l #	92
21) trans-1,2-Dichloroethene	3.15	96	1033	0.278	ug/l #	85
36) 1,1-Dichloropropene	5.63	75	22549	4.460	ug/l #	49
38) Carbon Tetrachloride	5.63	117	29812	5.801	ug/l #	14
75) 1,1,2,2-Tetrachloroethane	11.25	83	137	2.090	ug/l #	84
76) 1,2,3-Trichloropropane	11.12	75	118419	21.193	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	118419	50.504	ug/l #	13
89) n-Butylbenzene	12.37	91	3350	0.224	ug/l	95
93) 1,2,4-Trichlorobenzene	13.63	180	2139	0.361	ug/l	95
94) Hexachlorobutadiene	13.77	225	2996	1.687	ug/l	98
95) Naphthalene	13.82	128	5658	0.295	ug/l	99
96) 1,2,3-Trichlorobenzene	14.01	180	2129	0.368	ug/l	97

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016297.D

Acq: 18 May 2020 14:27

Instrument :

MSVOA_X

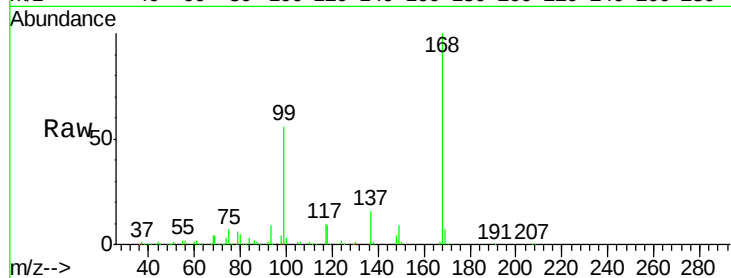
ClientSampleId :

Tot Ion:168 Resp: 320242

Ion Ratio Lower Upper

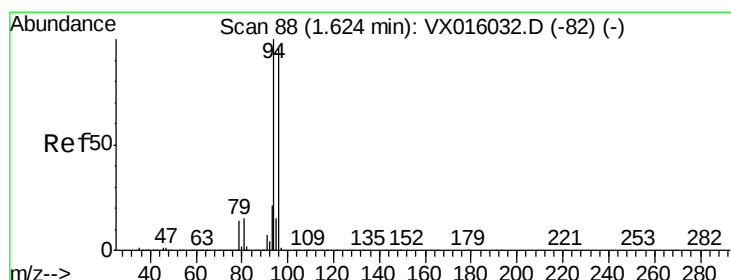
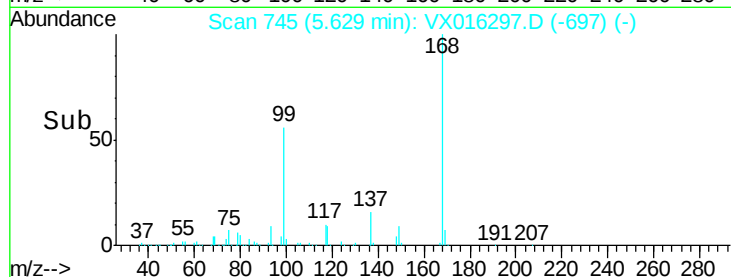
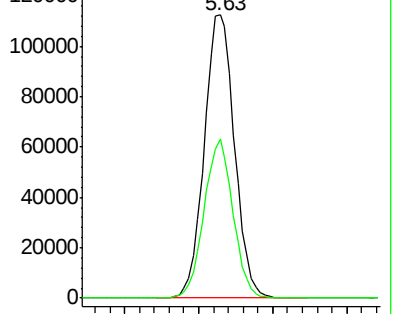
168 100

99 56.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.321 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016297.D

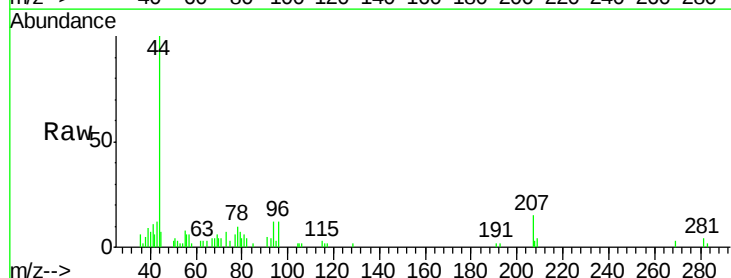
Acq: 18 May 2020 14:27

Tgt Ion: 94 Resp: 680

Ion Ratio Lower Upper

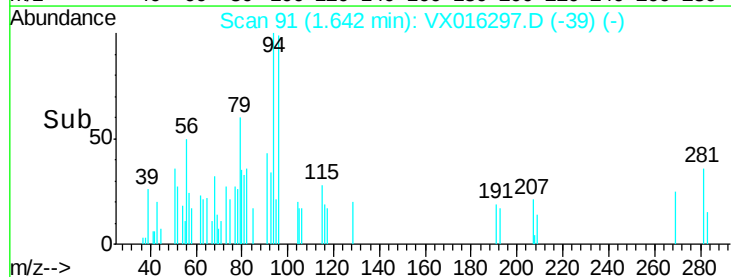
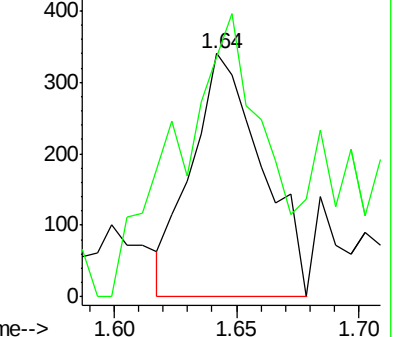
94 100

96 58.8 76.9 115.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

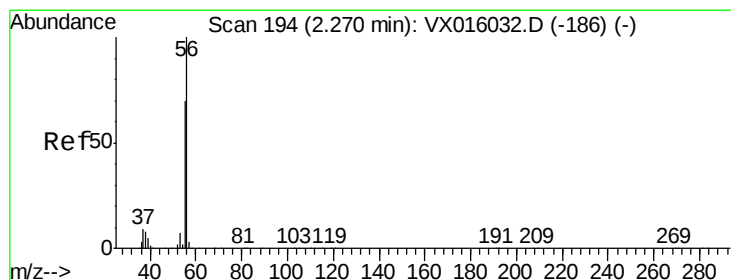
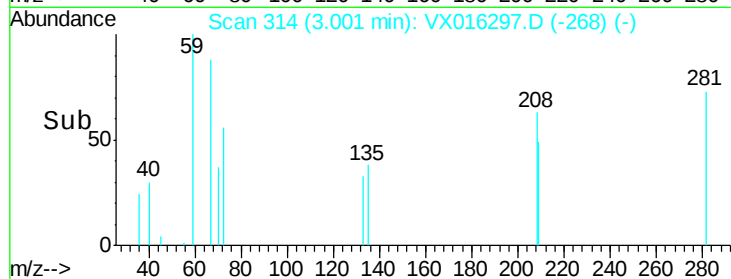
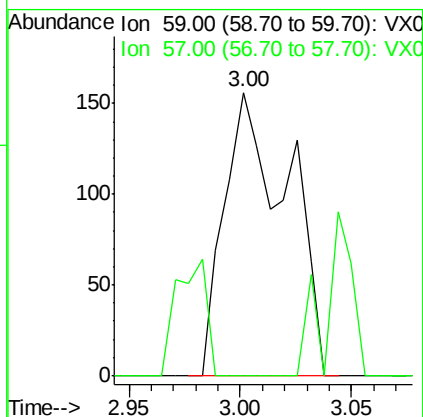
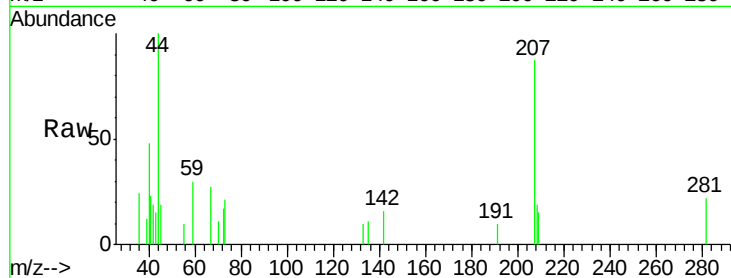




#11
Tert butyl alcohol
Concen: 0.289 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX016297.D
Acq: 18 May 2020 14:27

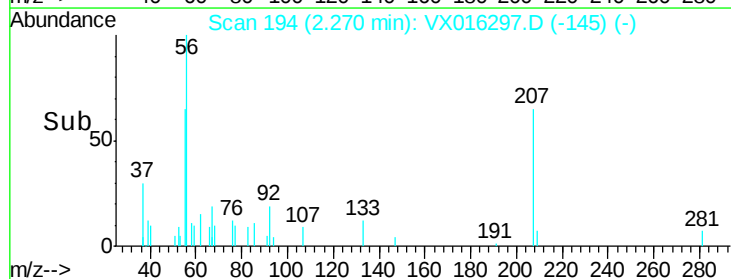
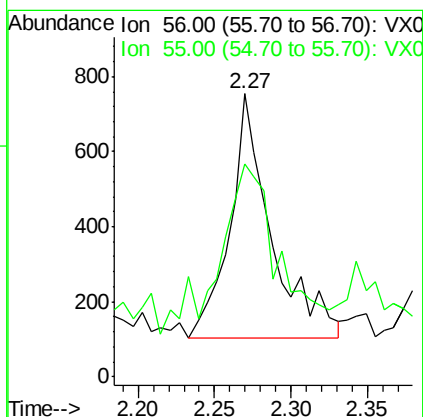
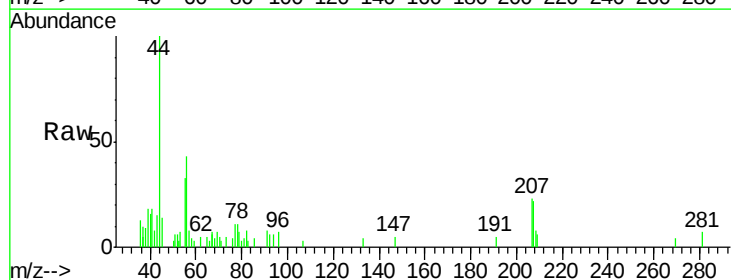
Instrument :
MSVOA_X
ClientSampleId :

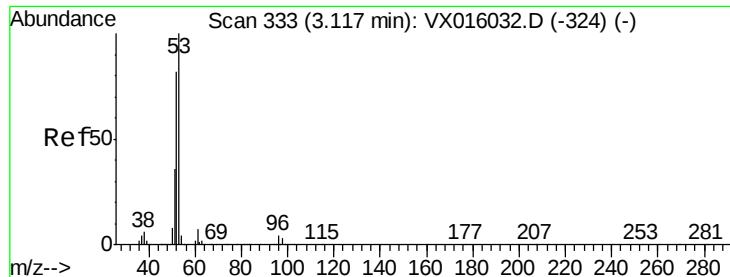
Tot Ion: 59 Resp: 308
Ion Ratio Lower Upper
59 100
57 19.8 8.2 12.4#



#13
Acrolein
Concen: 1.822 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.00 min
Lab File: VX016297.D
Acq: 18 May 2020 14:27

Tgt Ion: 56 Resp: 1215
Ion Ratio Lower Upper
56 100
55 89.7 56.5 84.7#





#15

Acrylonitrile

Concen: 0.669 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX016297.D

Acq: 18 May 2020 14:27

Instrument :

MSVOA_X

ClientSampleId :

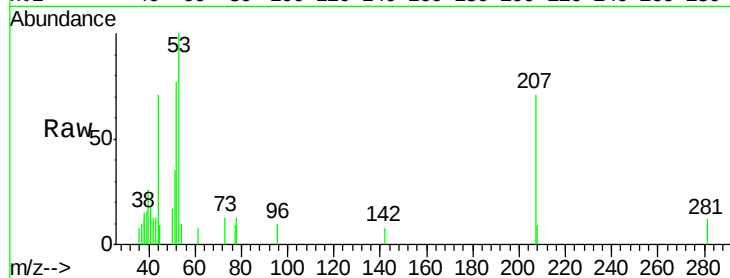
Tot Ion: 53 Resp: 1480

Ion Ratio Lower Upper

53 100

52 85.9 66.1 99.1

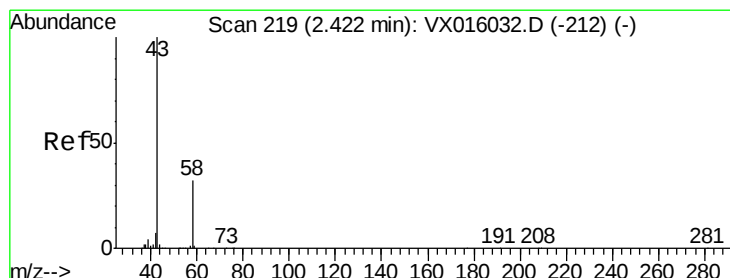
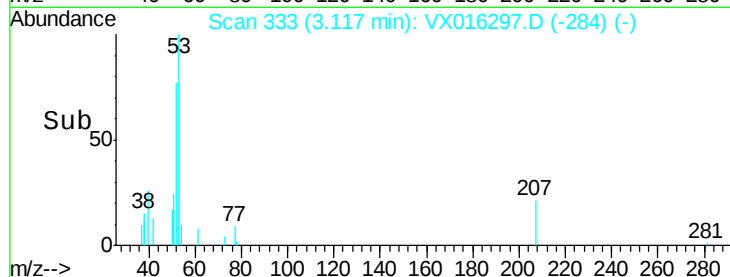
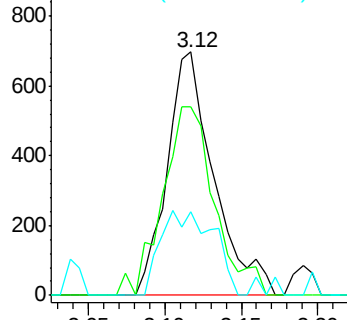
51 39.5 28.8 43.2



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.311 ug/l

RT: 2.40 min Scan# 216

Delta R.T. -0.02 min

Lab File: VX016297.D

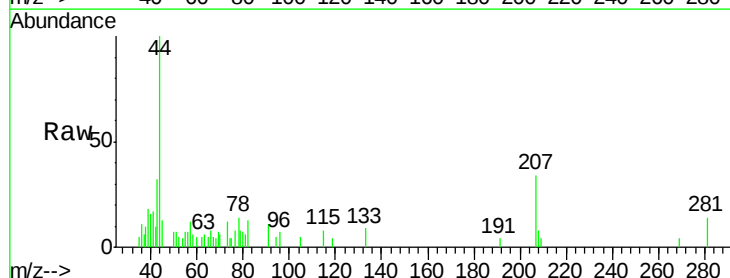
Acq: 18 May 2020 14:27

Tgt Ion: 43 Resp: 585

Ion Ratio Lower Upper

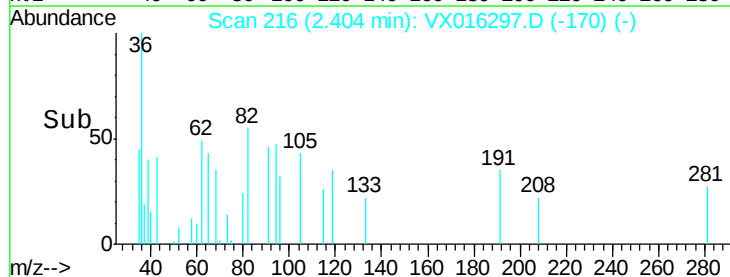
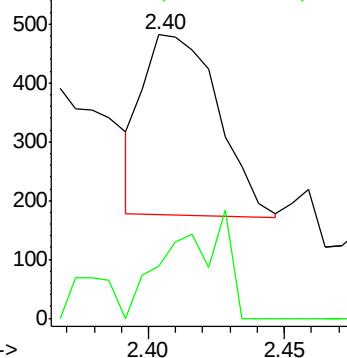
43 100

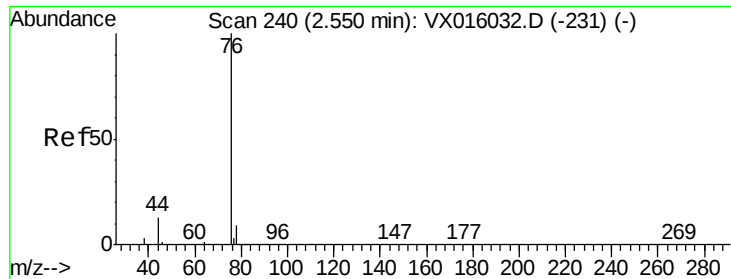
58 29.3 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.277 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX016297.D

Acq: 18 May 2020 14:27

Instrument :

MSVOA_X

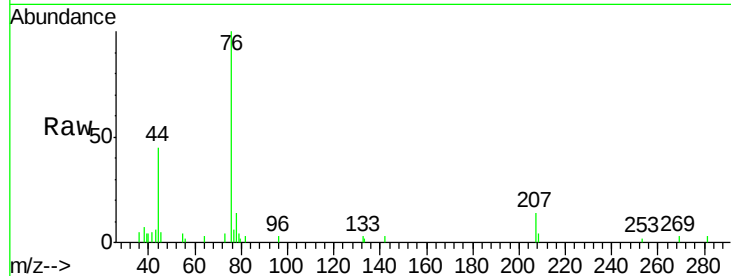
ClientSampleId :

Tot Ion: 76 Resp: 4823

Ion Ratio Lower Upper

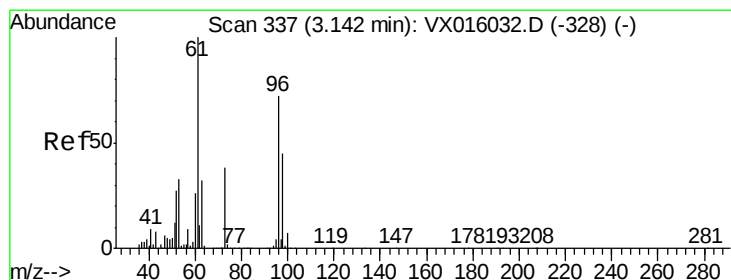
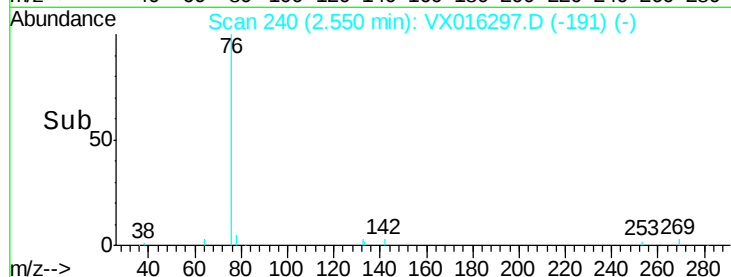
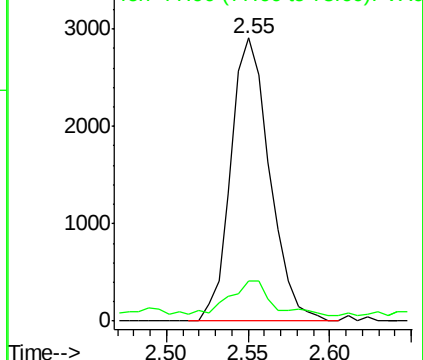
76 100

78 12.2 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#21

trans-1,2-Dichloroethene

Concen: 0.278 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX016297.D

Acq: 18 May 2020 14:27

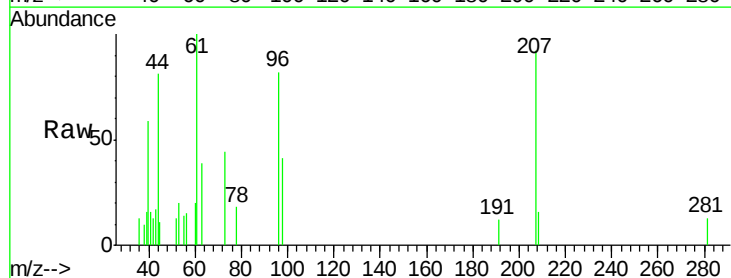
Tgt Ion: 96 Resp: 1033

Ion Ratio Lower Upper

96 100

61 122.3 111.2 166.8

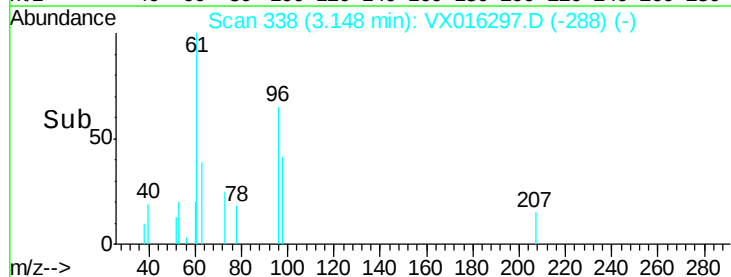
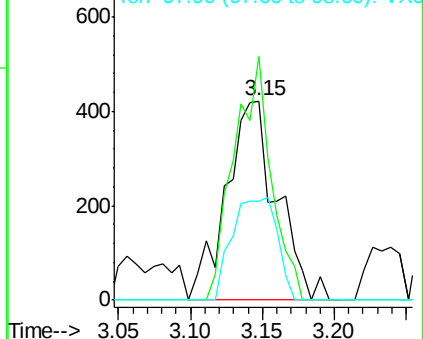
98 49.8 50.2 75.4#

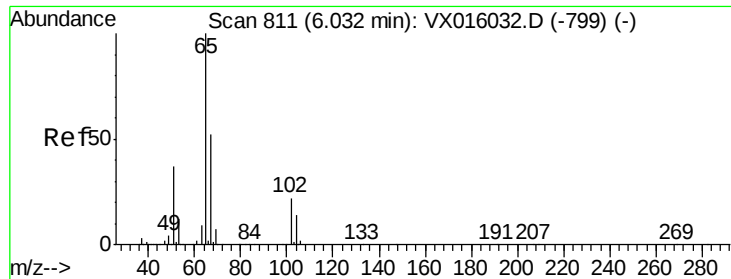


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 42.554 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016297.D

Acq: 18 May 2020 14:27

Instrument :

MSVOA_X

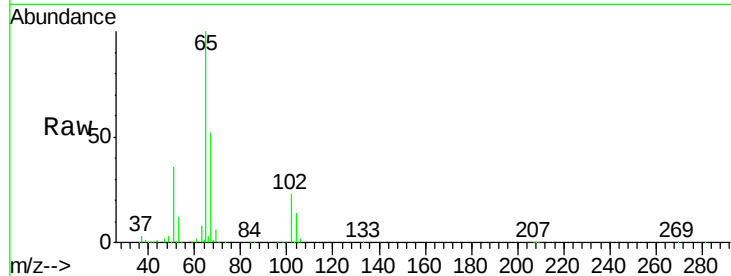
ClientSampleId :

Tot Ion: 65 Resp: 179326

Ion Ratio Lower Upper

65 100

67 53.4 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

80000

60000

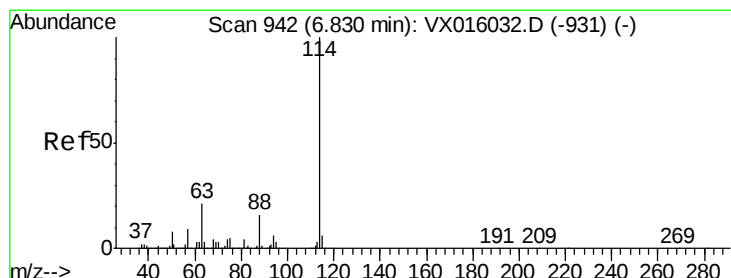
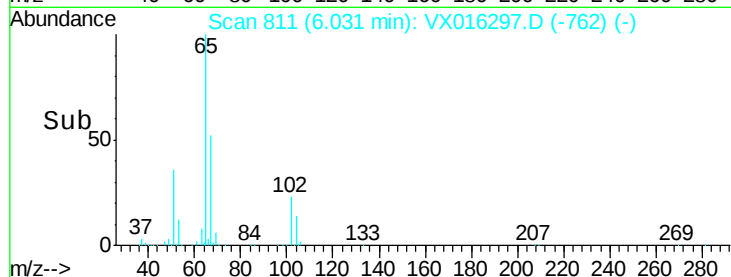
40000

20000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016297.D

Acq: 18 May 2020 14:27

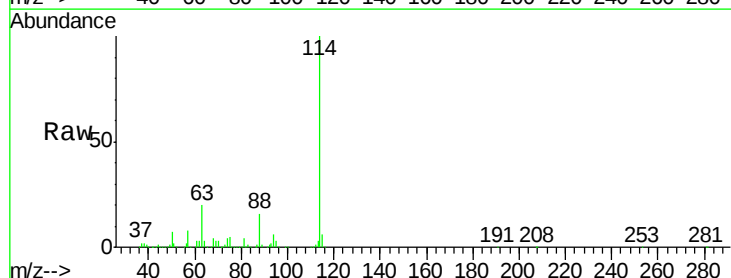
Tgt Ion: 114 Resp: 513639

Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.8

88 15.9 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

300000

250000

200000

150000

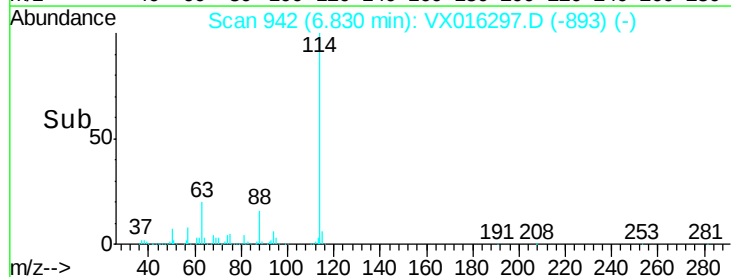
100000

50000

0

Time-->

6.70 6.80 6.90





#35

Dibromofluoromethane

Concen: 45.193 ug/l

RT: 5.46 min Scan# 718

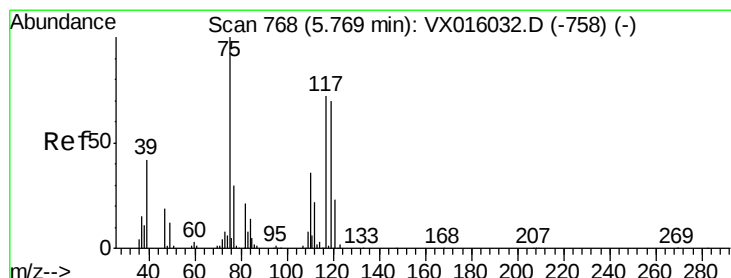
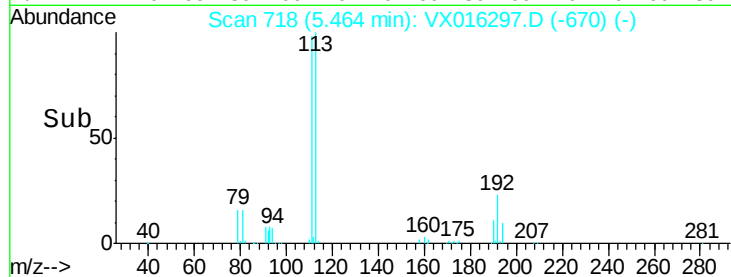
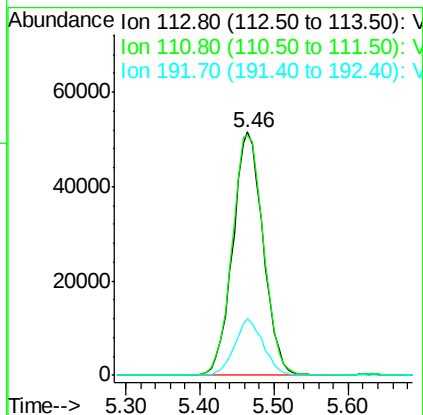
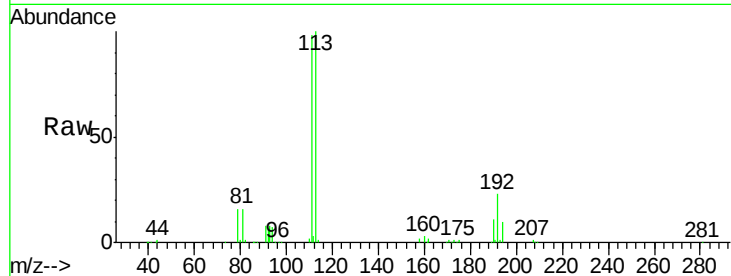
Delta R.T. -0.01 min

Lab File: VX016297.D

Acq: 18 May 2020 14:27

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:113 Resp: 147064
Ion Ratio Lower Upper
113 100
111 102.0 81.6 122.4
192 22.2 17.0 25.4



#36

1,1-Dichloropropene

Concen: 4.460 ug/l

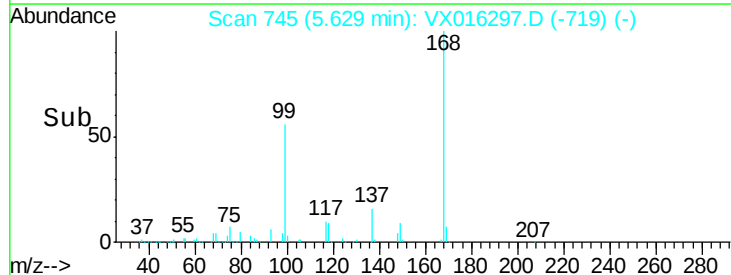
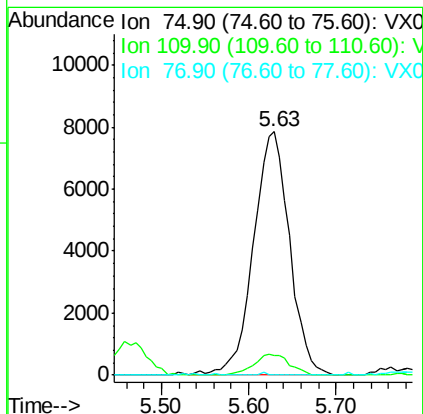
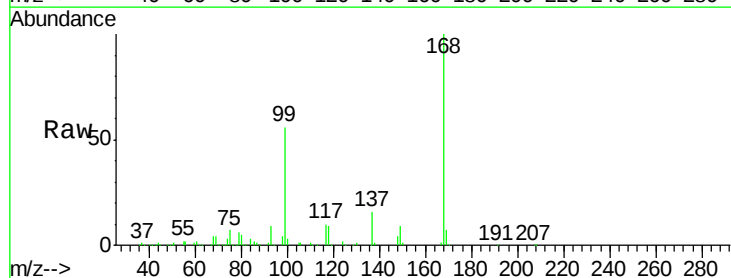
RT: 5.63 min Scan# 745

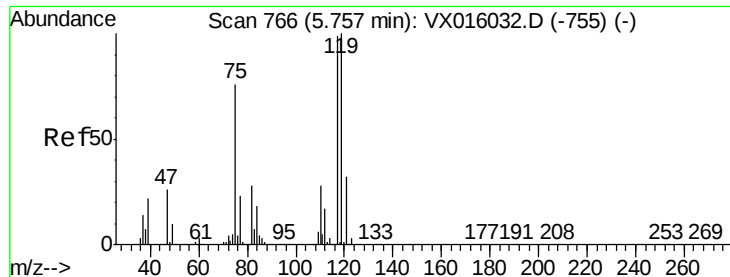
Delta R.T. -0.14 min

Lab File: VX016297.D

Acq: 18 May 2020 14:27

Tgt Ion: 75 Resp: 22549
Ion Ratio Lower Upper
75 100
110 8.4 18.1 54.1#
77 0.1 25.0 37.6#





#38

Carbon Tetrachloride

Concen: 5.801 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016297.D

Acq: 18 May 2020 14:27

Instrument :

MSVOA_X

ClientSampleId :

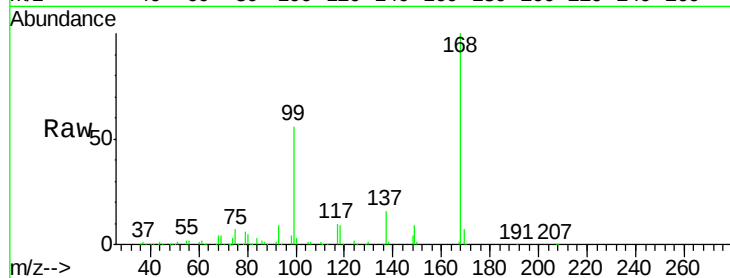
Tot Ion:117 Resp: 29812

Ion Ratio Lower Upper

117 100

119 4.7 80.3 120.5#

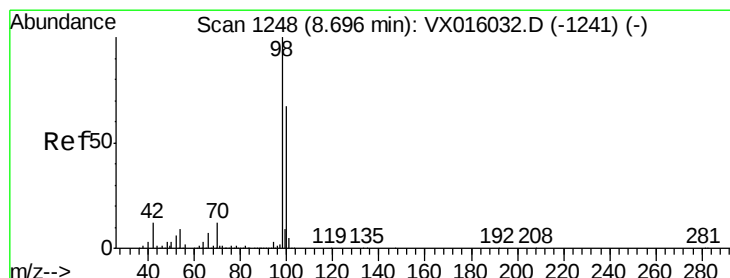
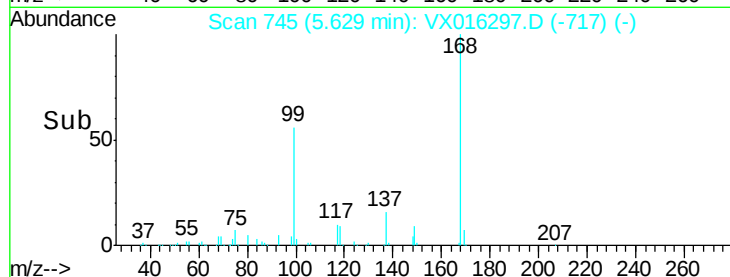
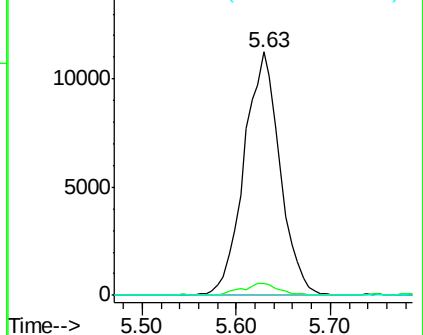
121 0.0 25.7 38.5#



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



#50

Toluene-d8

Concen: 49.454 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016297.D

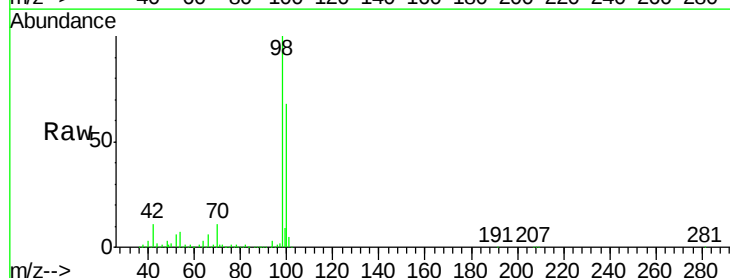
Acq: 18 May 2020 14:27

Tgt Ion: 98 Resp: 620077

Ion Ratio Lower Upper

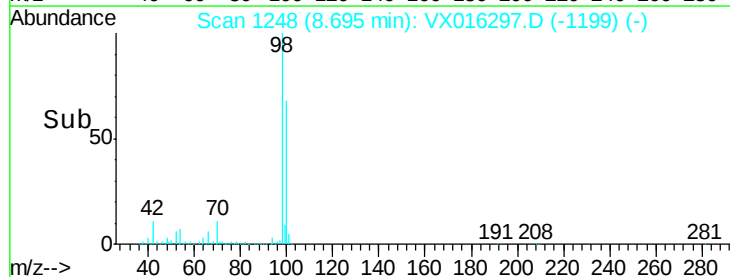
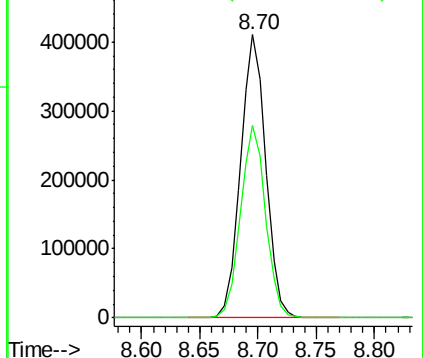
98 100

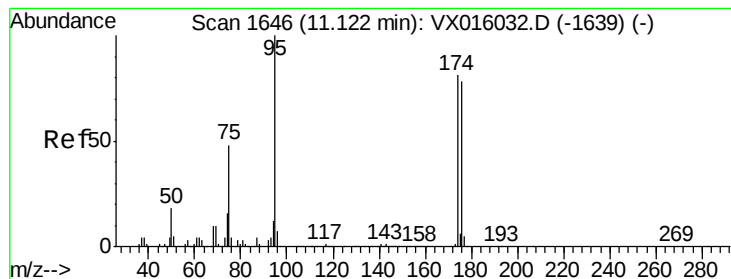
100 67.6 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 51.840 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016297.D

Acq: 18 May 2020 14:27

Instrument :

MSVOA_X

ClientSampled :

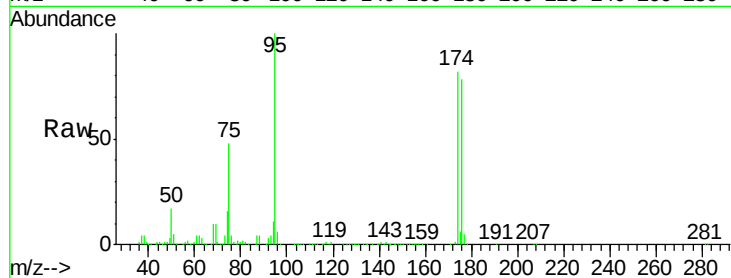
Tot Ion: 95 Resp: 247225

Ion Ratio Lower Upper

95 100

174 82.0 0.0 159.4

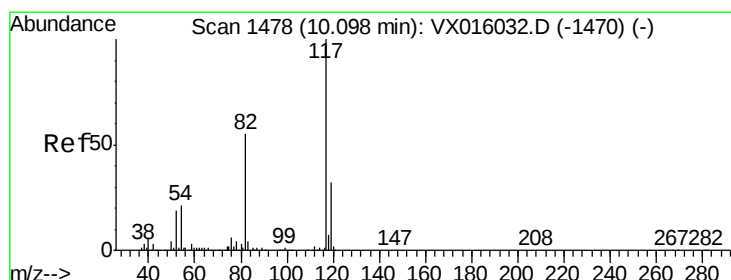
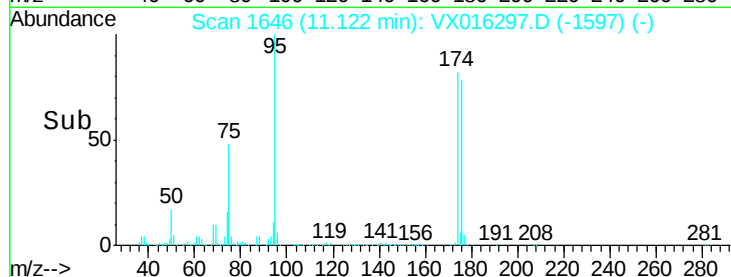
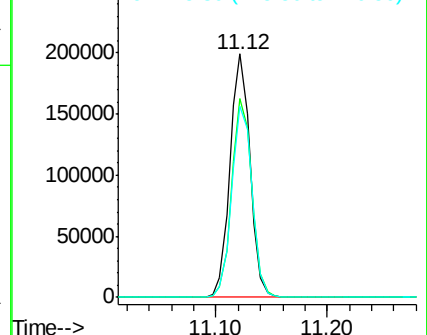
176 80.2 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016297.D

Acq: 18 May 2020 14:27

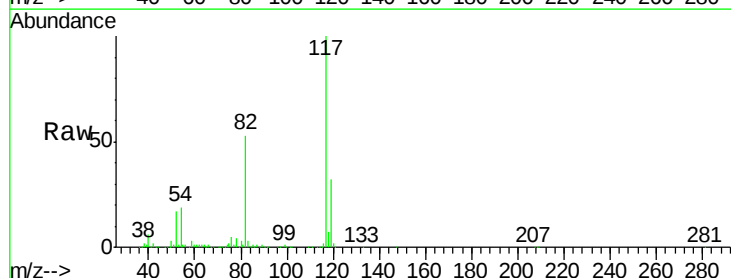
Tgt Ion: 117 Resp: 495462

Ion Ratio Lower Upper

117 100

82 53.2 44.4 66.6

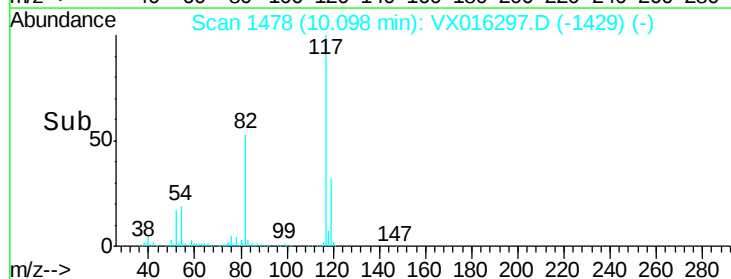
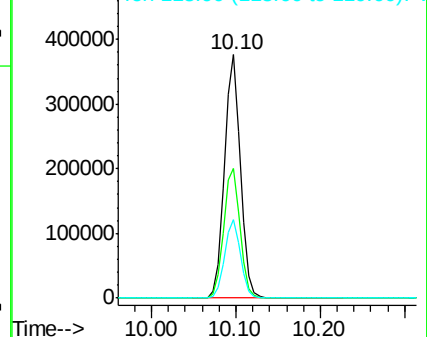
119 32.4 25.5 38.3

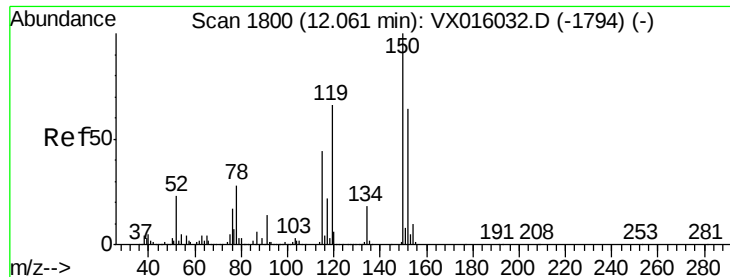


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016297.D

Acq: 18 May 2020 14:27

Instrument :

MSVOA_X

ClientSampleId :

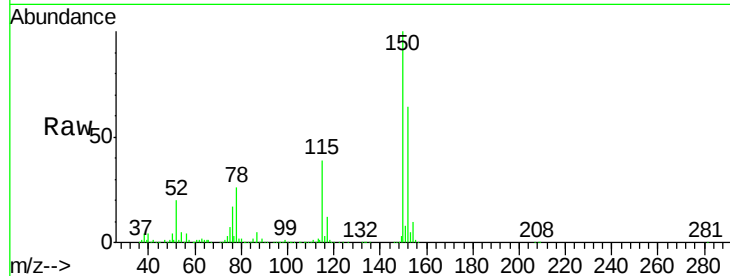
Tot Ion:152 Resp: 246239

Ion Ratio Lower Upper

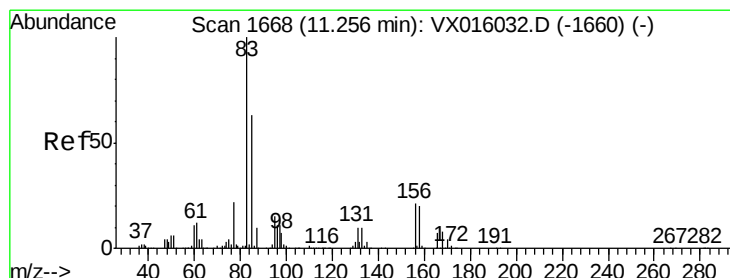
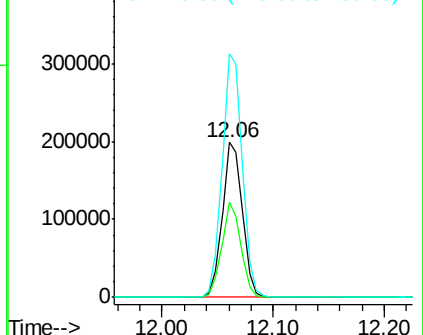
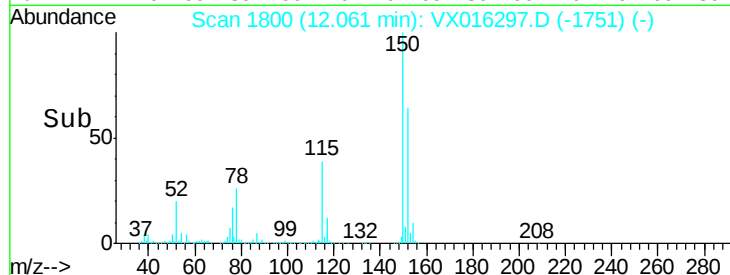
152 100

115 58.6 41.3 124.1

150 158.0 0.0 352.2



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



#75

1,1,2,2-Tetrachloroethane

Concen: 2.090 ug/l

RT: 11.25 min Scan# 1667

Delta R.T. -0.01 min

Lab File: VX016297.D

Acq: 18 May 2020 14:27

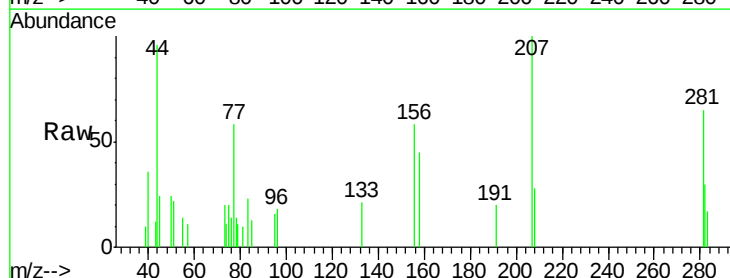
Tgt Ion: 83 Resp: 137

Ion Ratio Lower Upper

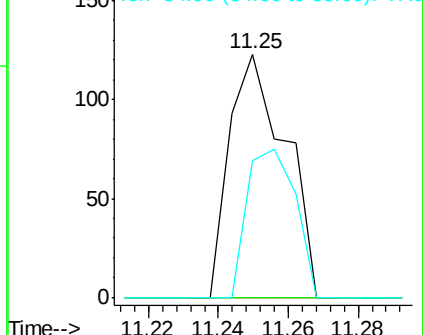
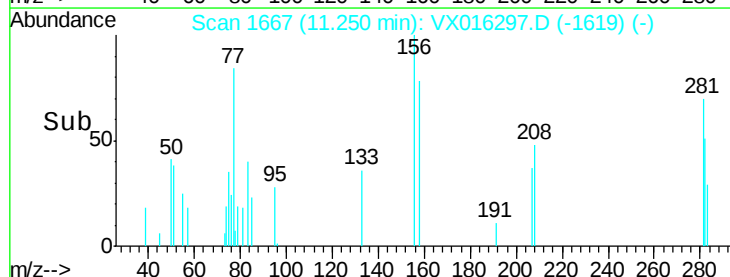
83 100

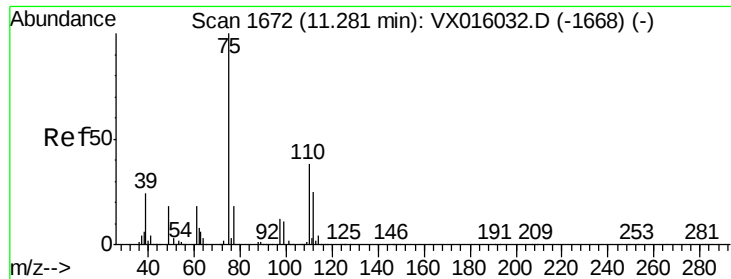
131 0.0 5.1 15.4#

85 52.6 32.0 96.0



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: 21.193 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016297.D

Acq: 18 May 2020 14:27

Instrument :

MSVOA_X

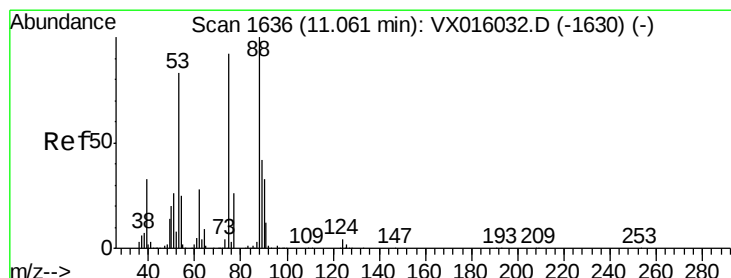
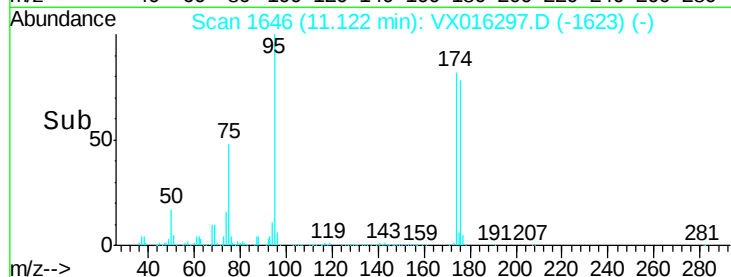
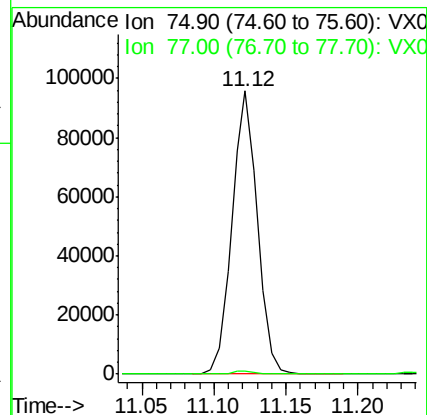
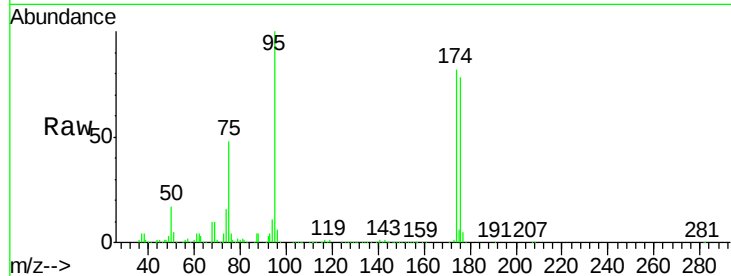
ClientSampled :

Tot Ion: 75 Resp: 118419

Ion Ratio Lower Upper

75 100

77 1.1 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 50.504 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016297.D

Acq: 18 May 2020 14:27

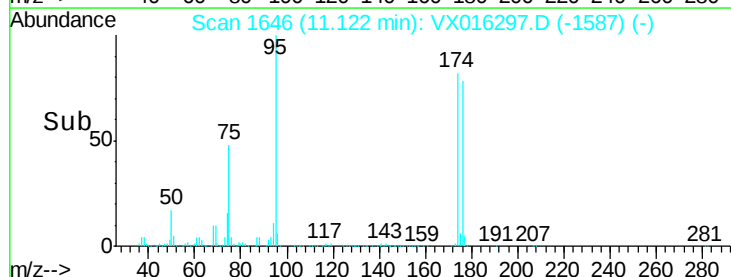
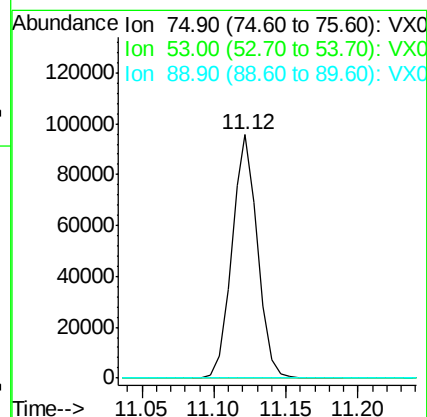
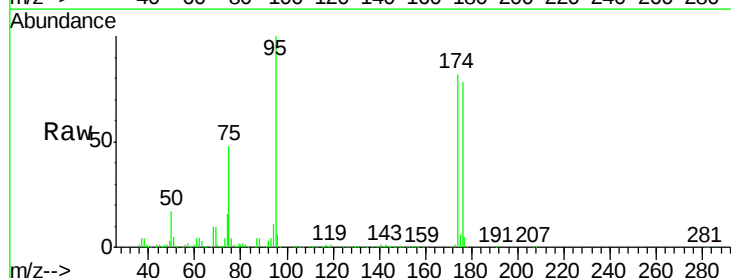
Tgt Ion: 75 Resp: 118419

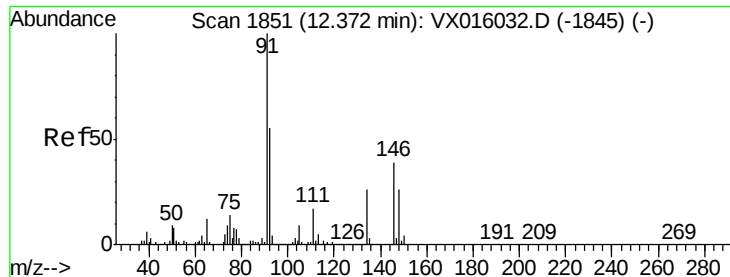
Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#

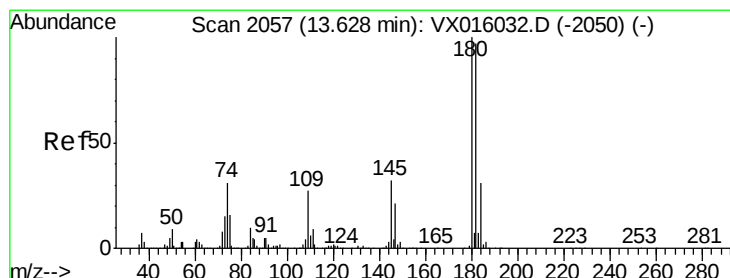
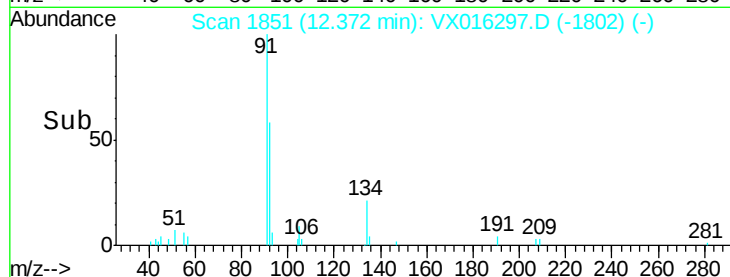
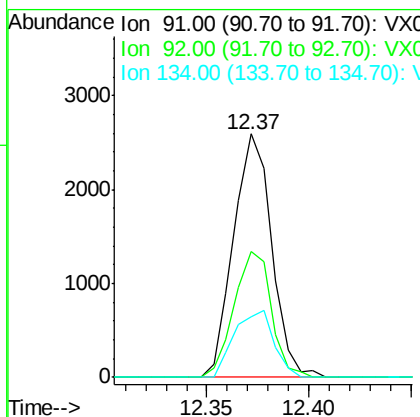
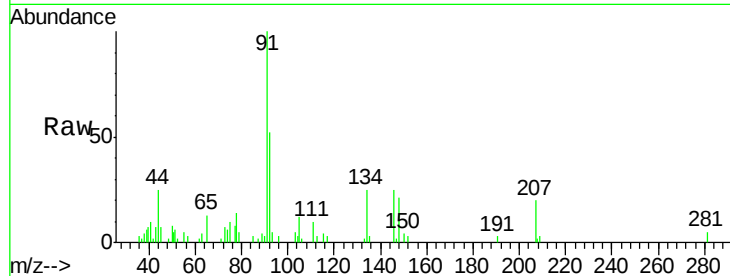




#89
n-Butylbenzene
Concen: 0.224 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. -0.00 min
Lab File: VX016297.D
Acq: 18 May 2020 14:27

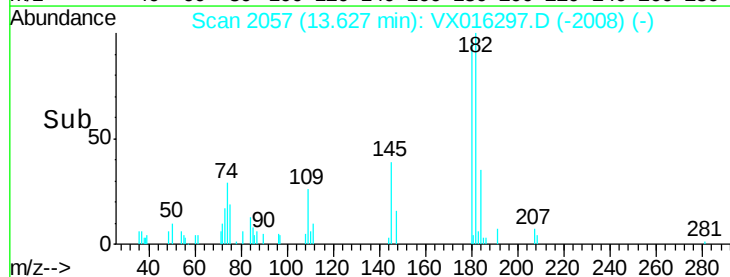
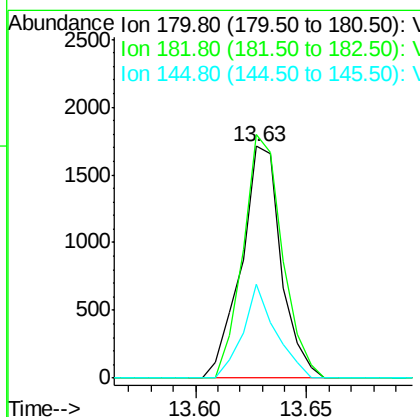
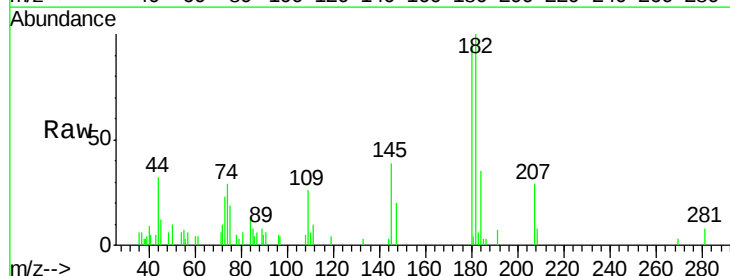
Instrument :
MSVOA_X
ClientSampleId :

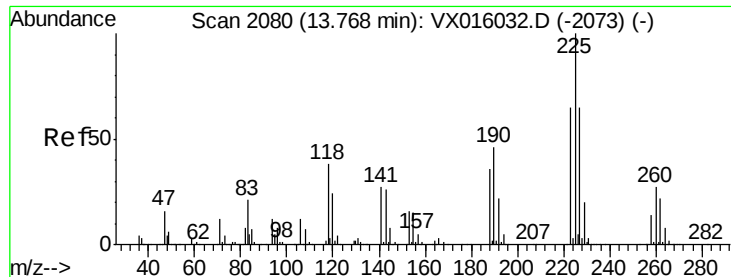
Tot Ion: 91 Resp: 3350
Ion Ratio Lower Upper
91 100
92 50.6 27.6 82.7
134 28.3 13.4 40.1



#93
1,2,4-Trichlorobenzene
Concen: 0.361 ug/l
RT: 13.63 min Scan# 2057
Delta R.T. -0.00 min
Lab File: VX016297.D
Acq: 18 May 2020 14:27

Tgt Ion: 180 Resp: 2139
Ion Ratio Lower Upper
180 100
182 102.8 48.7 146.1
145 33.2 15.7 47.1





#94

Hexachlorobutadiene

Concen: 1.687 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016297.D

Acq: 18 May 2020 14:27

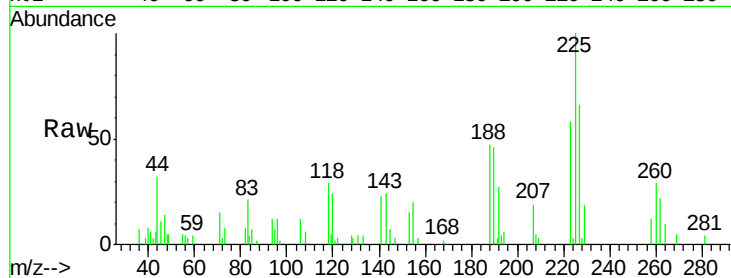
Instrument :

MSVOA_X

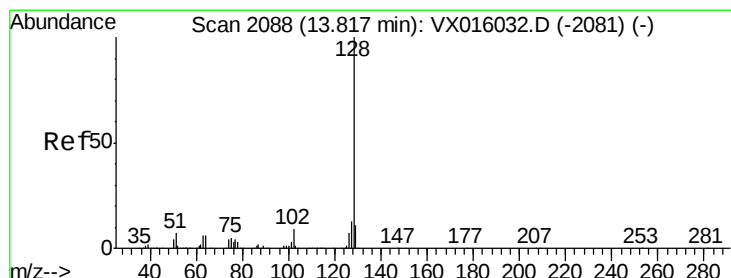
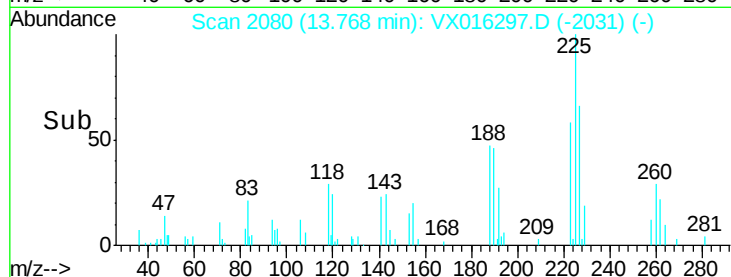
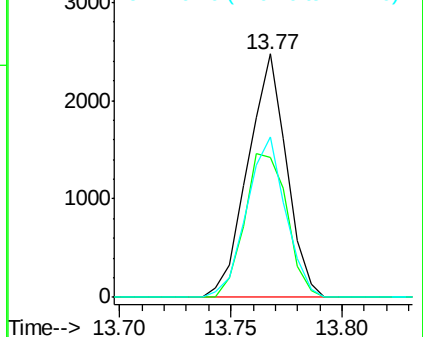
ClientSampleId :

Tot Ion:225 Resp: 2996

Ion	Ratio	Lower	Upper
225	100		
223	64.9	32.3	96.9
227	66.3	31.8	95.4



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: 0.295 ug/l

RT: 13.82 min Scan# 2088

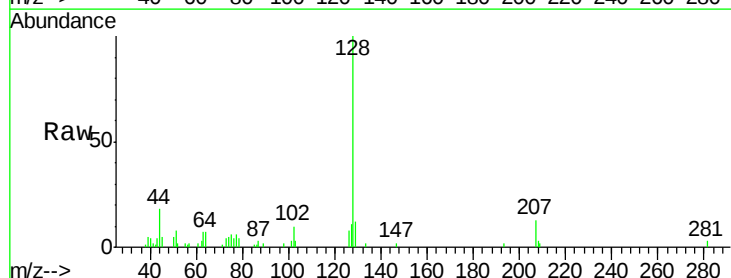
Delta R.T. -0.00 min

Lab File: VX016297.D

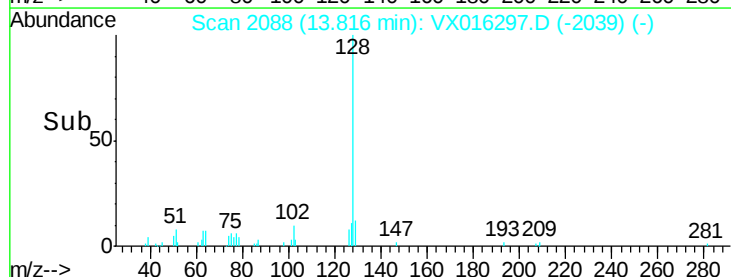
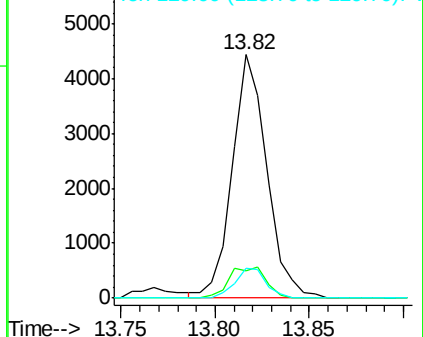
Acq: 18 May 2020 14:27

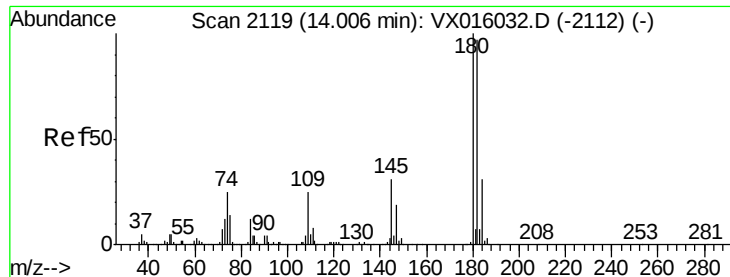
Tgt Ion:128 Resp: 5658

Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.2	15.4
129	10.9	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: 0.368 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. -0.00 min

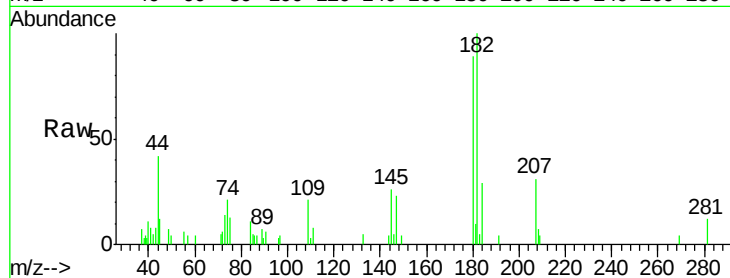
Lab File: VX016297.D

Acq: 18 May 2020 14:27

Instrument :

MSVOA_X

ClientSampleId :



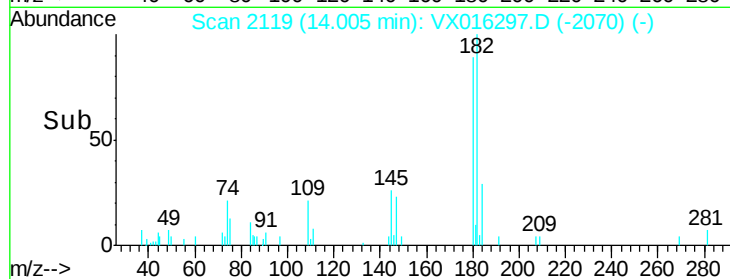
Tot Ion:180 Resp: 2129

Ion Ratio Lower Upper

180 100

182 100.2 48.4 145.0

145 31.5 16.4 49.1



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

