

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX051820\
 Data File : VX016307.D
 Acq On : 18 May 2020 18:26
 Operator : JC/SP
 Sample : L2649-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 19 00:49:11 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	279537	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	454343	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	448762	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	233652	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	160464	43.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.24%	
35) Dibromofluoromethane	5.47	113	129407	44.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.92%	
50) Toluene-d8	8.70	98	552708	49.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.66%	
62) 4-Bromofluorobenzene	11.12	95	227157	53.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.70%	

Target Compounds

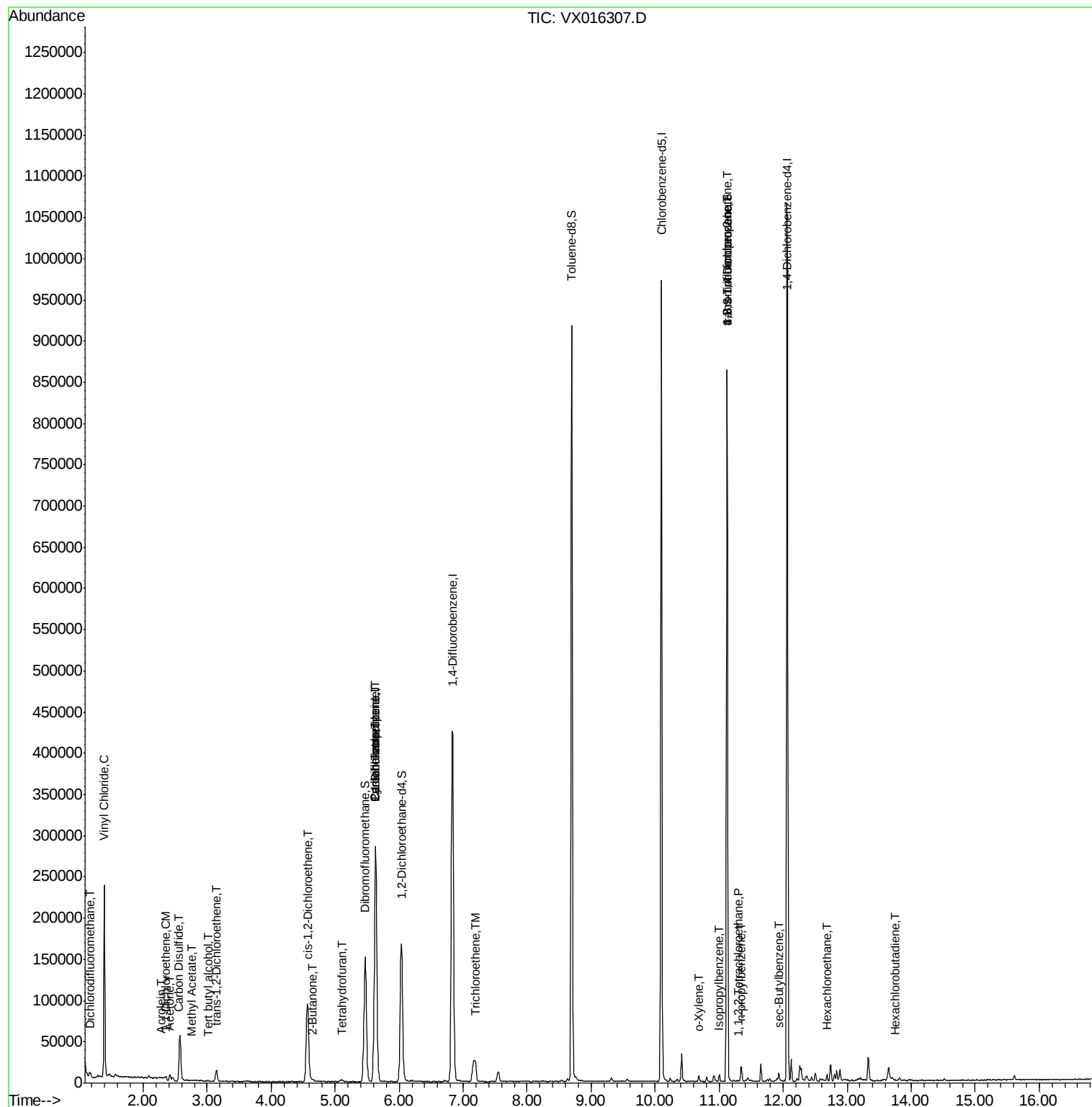
						Qvalue
2) Dichlorodifluoromethane	1.18	85	1624	0.549	ug/l	89
4) Vinyl Chloride	1.39	62	134849	36.783	ug/l	98
11) Tert butyl alcohol	3.01	59	837	0.900	ug/l #	89
12) 1,1-Dichloroethene	2.36	96	864	0.297	ug/l	88
13) Acrolein	2.28	56	522	0.897	ug/l #	60
16) Acetone	2.42	43	7528	4.587	ug/l	99
17) Carbon Disulfide	2.56	76	4598	0.321	ug/l #	84
18) Methyl Acetate	2.76	43	809	0.200	ug/l #	79
21) trans-1,2-Dichloroethene	3.15	96	5972	1.844	ug/l	82
25) 2-Butanone	4.65	43	1457	0.551	ug/l #	85
27) cis-1,2-Dichloroethene	4.57	96	64194	18.133	ug/l	84
29) Tetrahydrofuran	5.10	42	1160	0.662	ug/l #	74
31) Cyclohexane	5.64	56	5160	1.010	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	20175	4.511	ug/l #	50
38) Carbon Tetrachloride	5.63	117	26713	5.876	ug/l #	14
44) Trichloroethene	7.19	130	7673	1.650	ug/l	98
69) o-Xylene	10.68	106	1639	0.271	ug/l	87
73) Isopropylbenzene	11.01	105	4109	0.242	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.30	83	23	2.056	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	110983	20.932	ug/l #	35
78) n-propylbenzene	11.34	91	6695	0.339	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.12	75	110983	49.882	ug/l #	13
85) sec-Butylbenzene	11.93	105	4507	0.270	ug/l #	77
90) Hexachloroethane	12.69	117	2771	1.041	ug/l #	10
94) Hexachlorobutadiene	13.76	225	122	0.573	ug/l #	55

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

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Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
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: VX016307.D

Acq: 18 May 2020 18:26

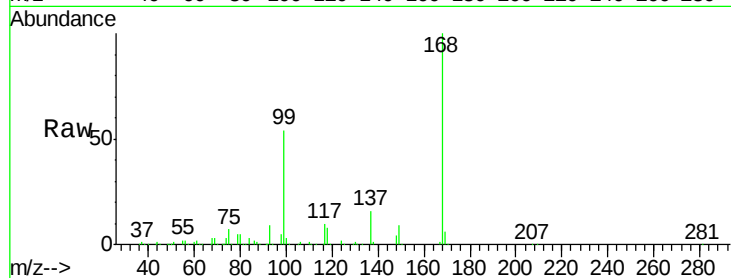
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 279537

Ion Ratio Lower Upper

168 100

99 54.2 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

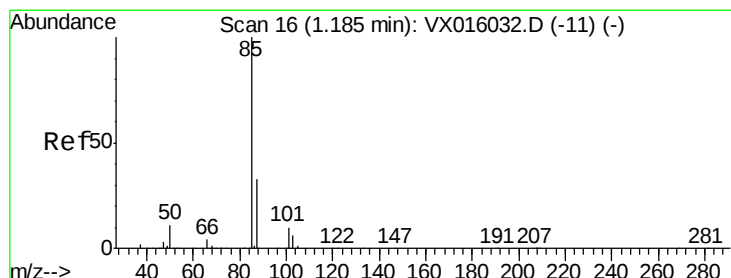
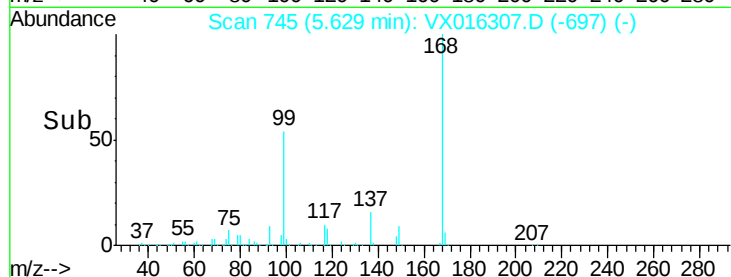
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.549 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX016307.D

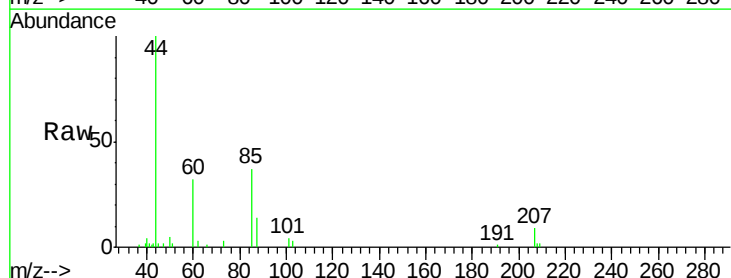
Acq: 18 May 2020 18:26

Tgt Ion: 85 Resp: 1624

Ion Ratio Lower Upper

85 100

87 38.6 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

2000

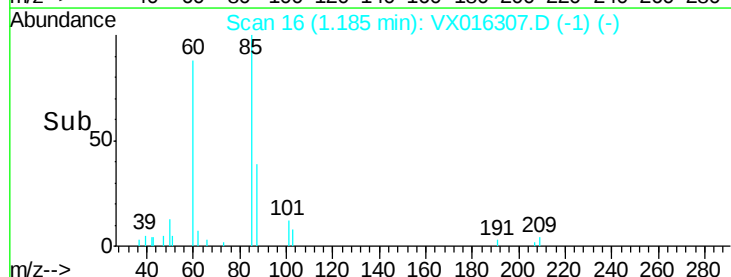
1500

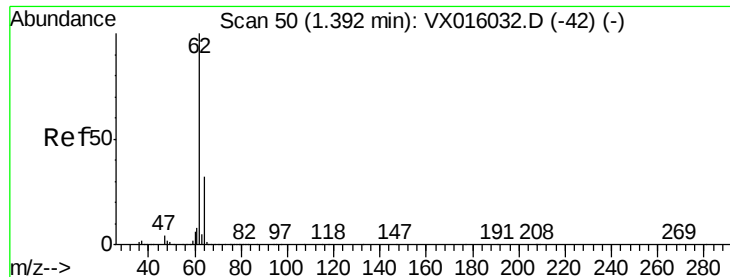
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 36.783 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

Instrument :

MSVOA_X

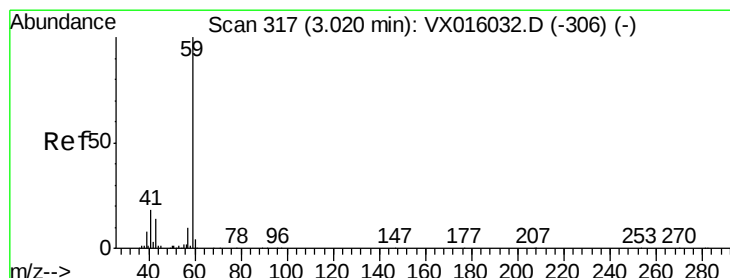
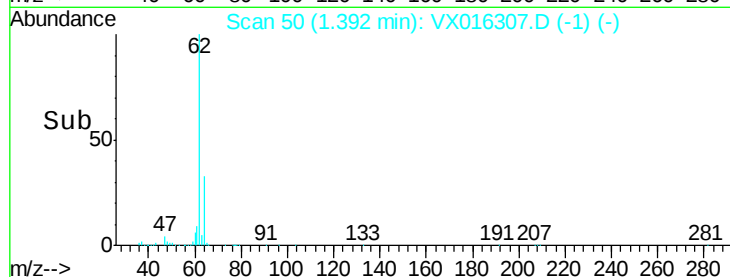
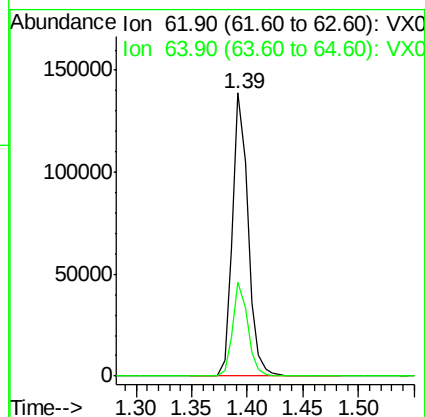
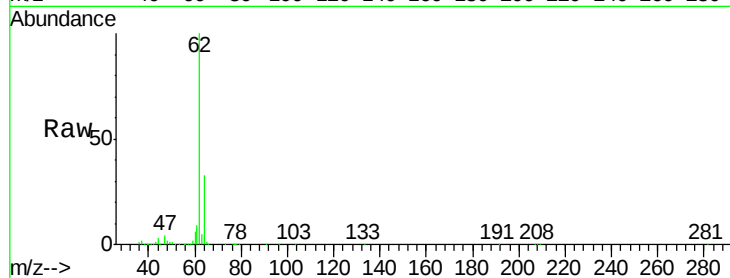
ClientSampled :

Tot Ion: 62 Resp: 134849

Ion Ratio Lower Upper

62 100

64 33.4 25.7 38.5



#11

Tert butyl alcohol

Concen: 0.900 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX016307.D

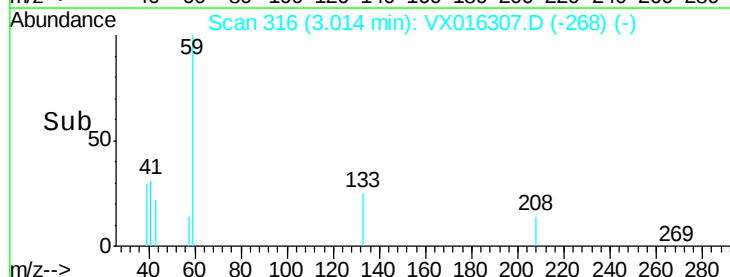
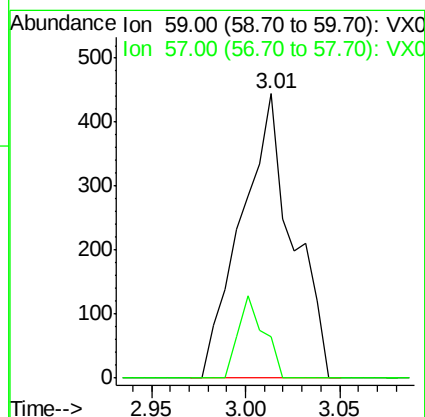
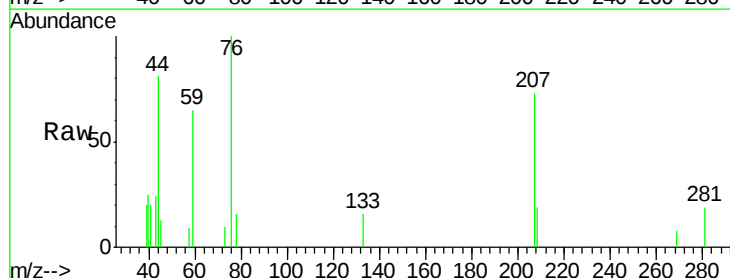
Acq: 18 May 2020 18:26

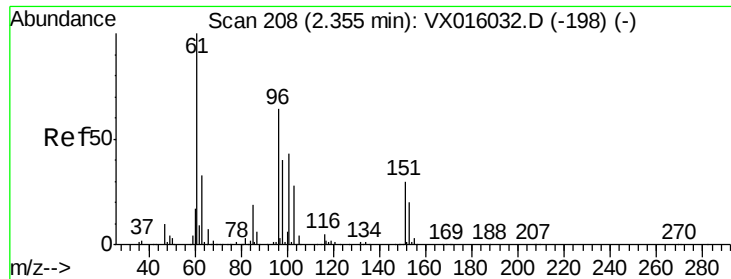
Tgt Ion: 59 Resp: 837

Ion Ratio Lower Upper

59 100

57 14.3 8.2 12.4#





#12

1,1-Dichloroethene

Concen: 0.297 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

Instrument :

MSVOA_X

ClientSampled :

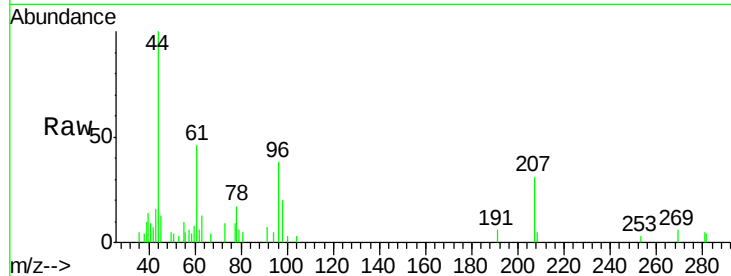
Tot Ion: 96 Resp: 864

Ion Ratio Lower Upper

96 100

61 136.2 124.8 187.2

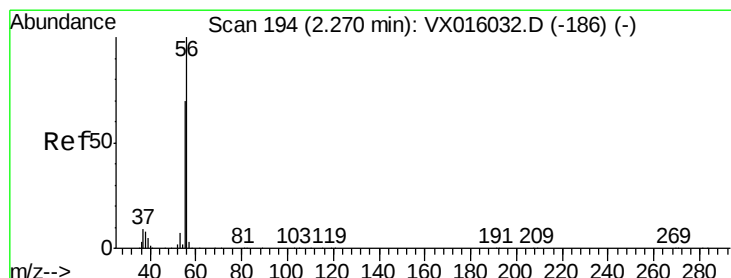
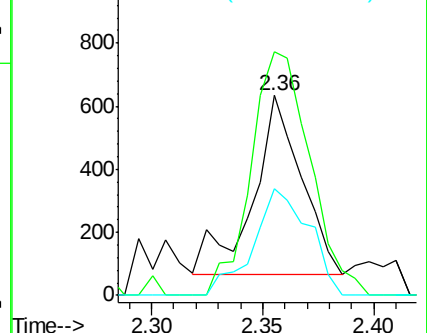
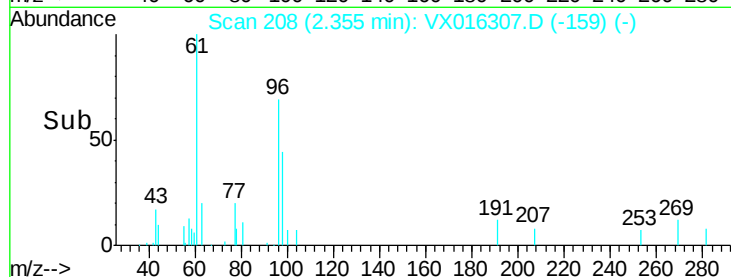
98 59.8 49.7 74.5



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



#13

Acrolein

Concen: 0.897 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016307.D

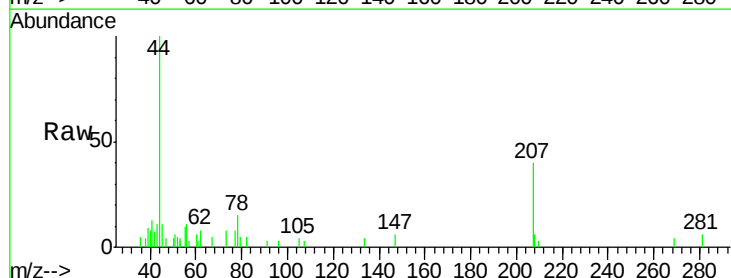
Acq: 18 May 2020 18:26

Tgt Ion: 56 Resp: 522

Ion Ratio Lower Upper

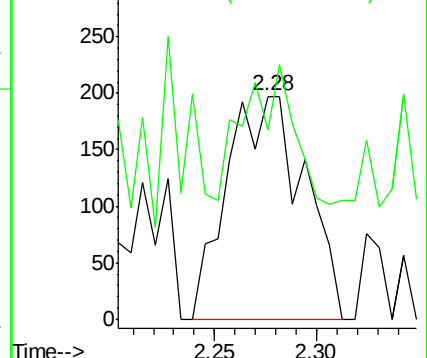
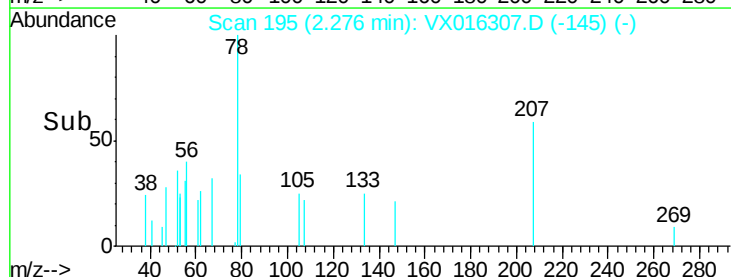
56 100

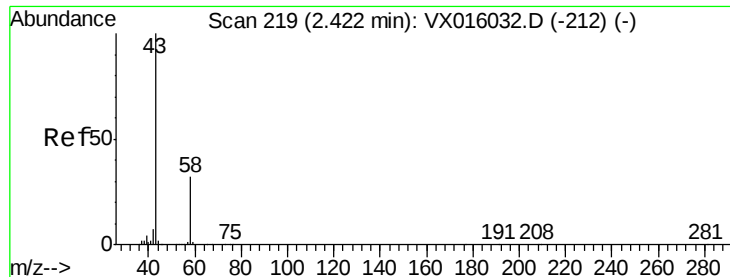
55 103.4 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 4.587 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

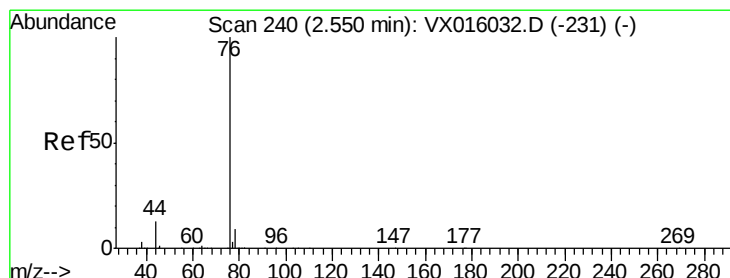
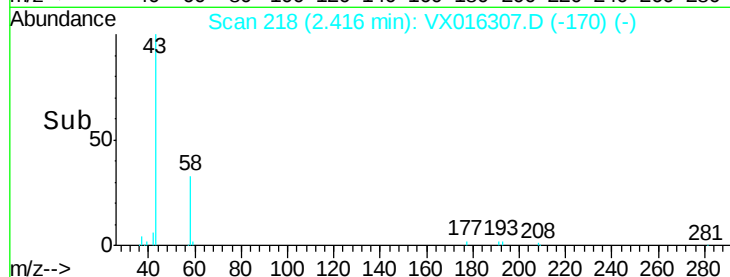
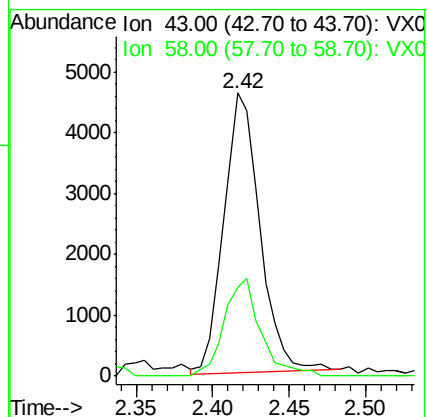
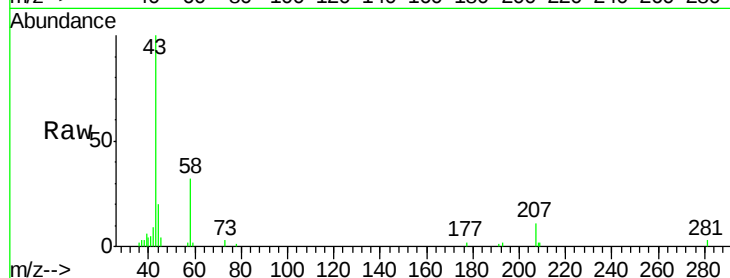
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 7528

Ion Ratio Lower Upper

43 100

58 32.3 25.4 38.0



#17

Carbon Disulfide

Concen: 0.321 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX016307.D

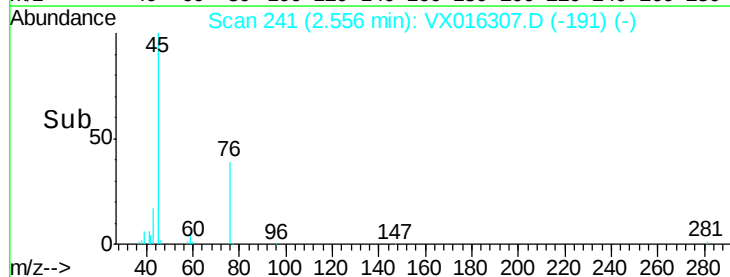
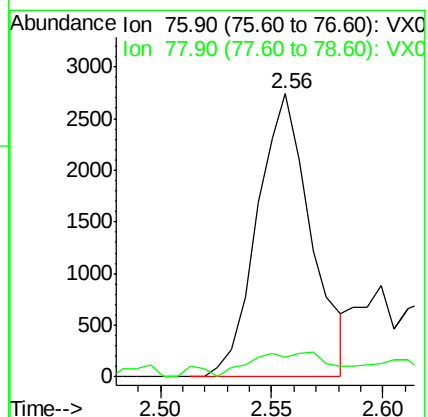
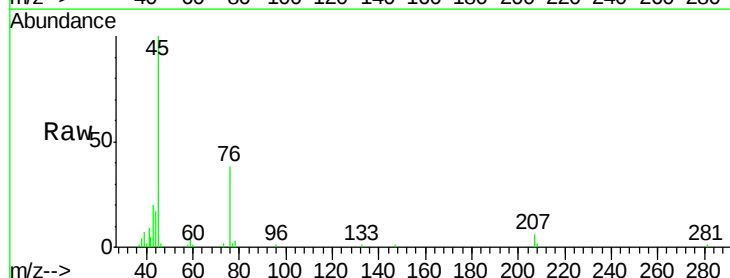
Acq: 18 May 2020 18:26

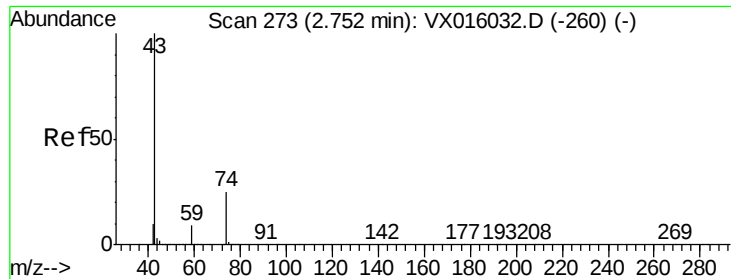
Tgt Ion: 76 Resp: 4598

Ion Ratio Lower Upper

76 100

78 3.4 7.5 11.3#





#18

Methyl Acetate

Concen: 0.200 ug/l

RT: 2.76 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

Instrument :

MSVOA_X

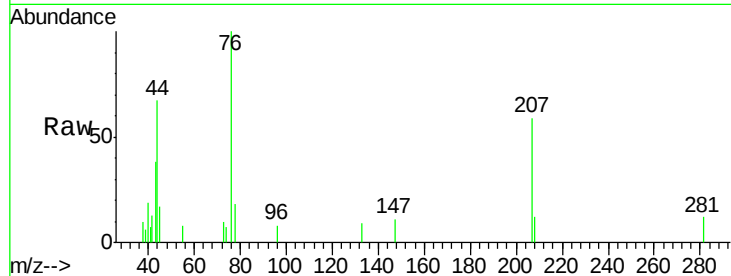
ClientSampleId :

Tot Ion: 43 Resp: 809

Ion Ratio Lower Upper

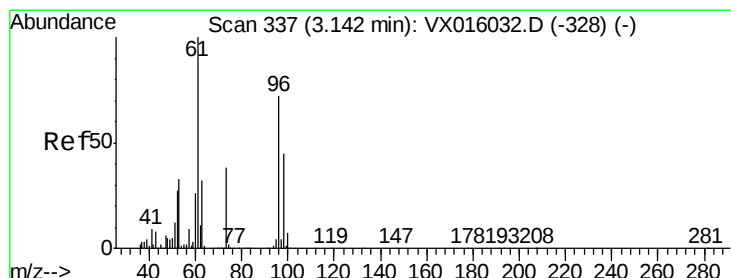
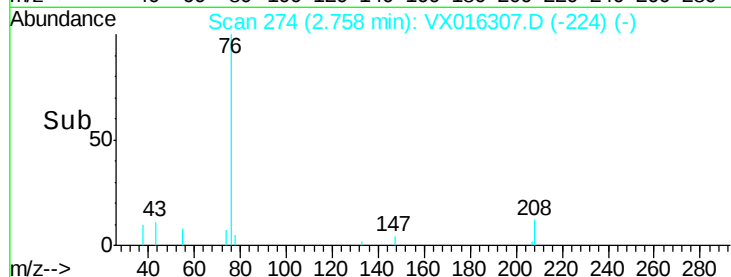
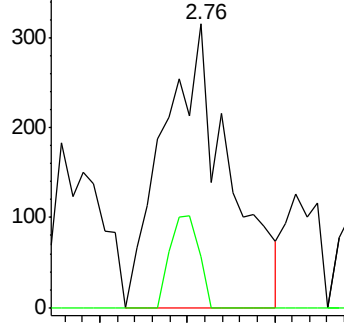
43 100

74 14.6 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#21

trans-1,2-Dichloroethene

Concen: 1.844 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

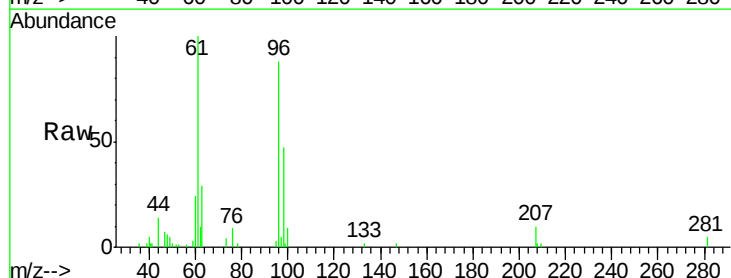
Tgt Ion: 96 Resp: 5972

Ion Ratio Lower Upper

96 100

61 113.6 111.2 166.8

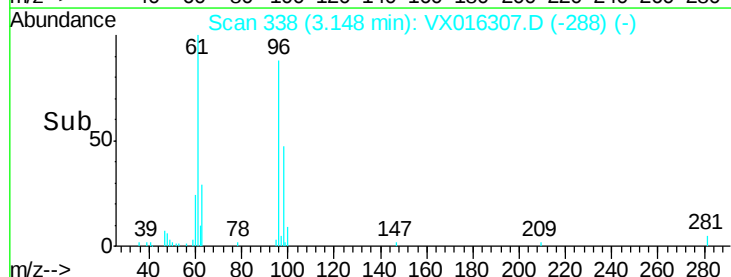
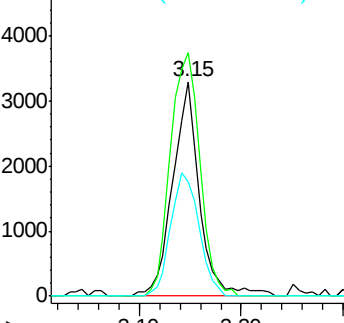
98 53.1 50.2 75.4

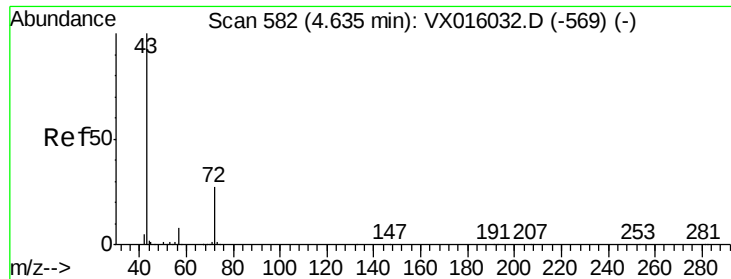


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#25

2-Butanone

Concen: 0.551 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

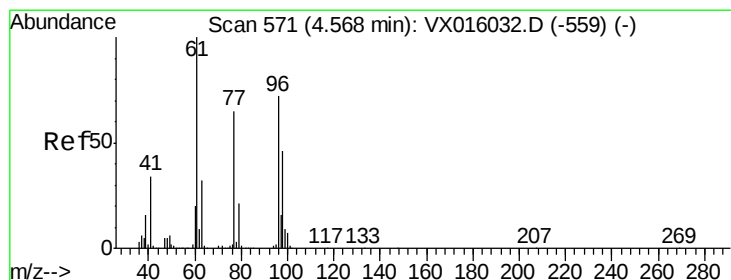
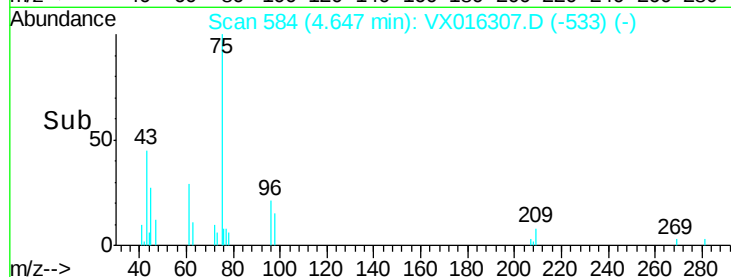
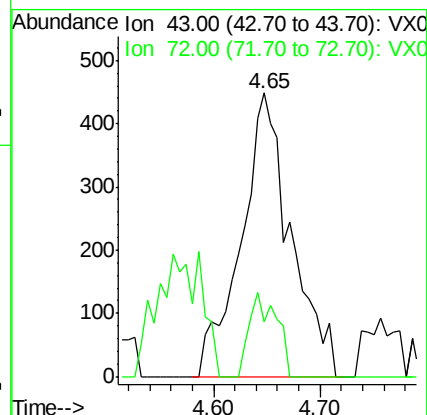
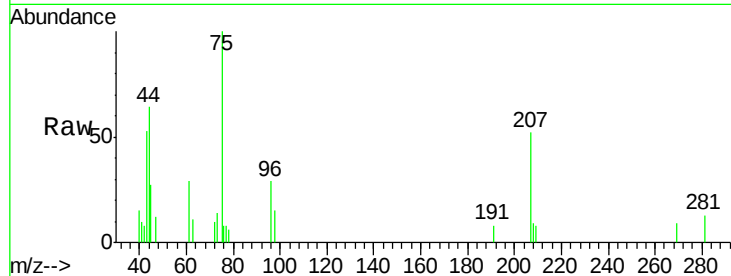
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 1457

Ion Ratio Lower Upper

43 100

72 19.4 21.8 32.8#



#27

cis-1,2-Dichloroethene

Concen: 18.133 ug/l

RT: 4.57 min Scan# 571

Delta R.T. -0.00 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

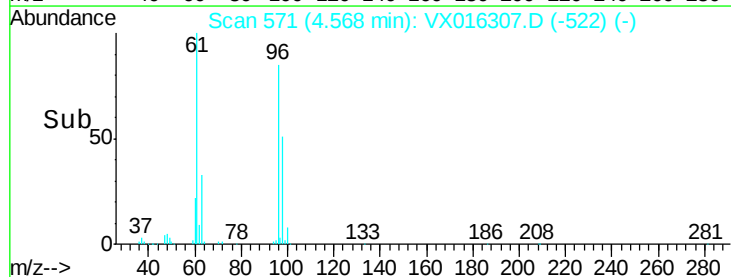
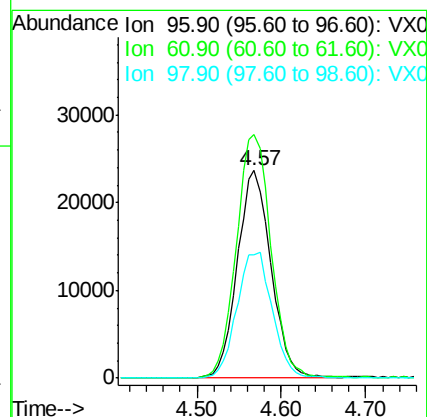
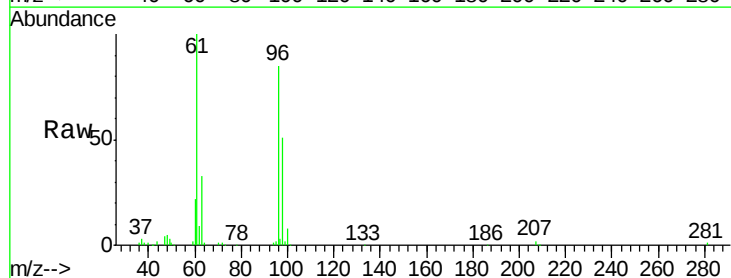
Tgt Ion: 96 Resp: 64194

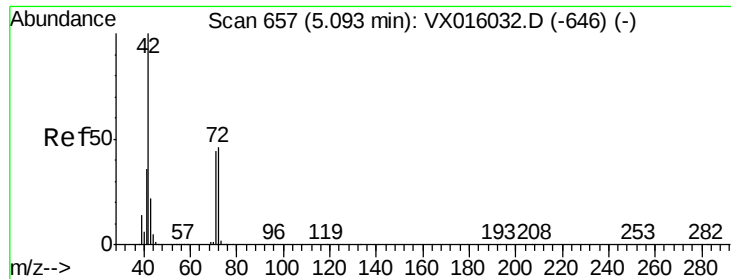
Ion Ratio Lower Upper

96 100

61 120.8 0.0 296.2

98 63.4 0.0 129.4

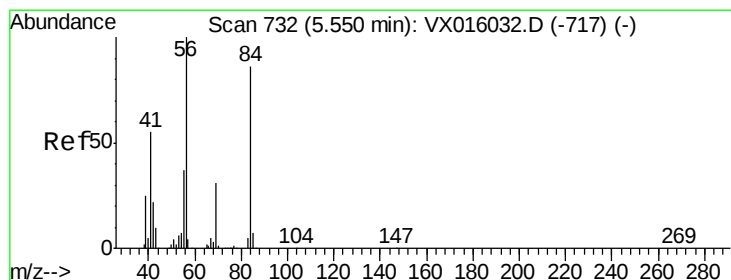
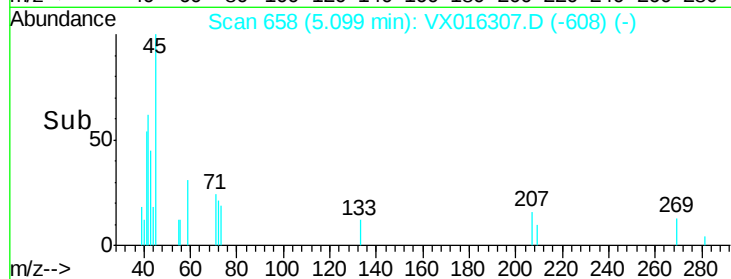
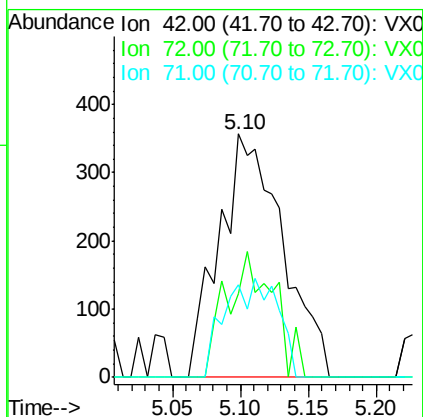
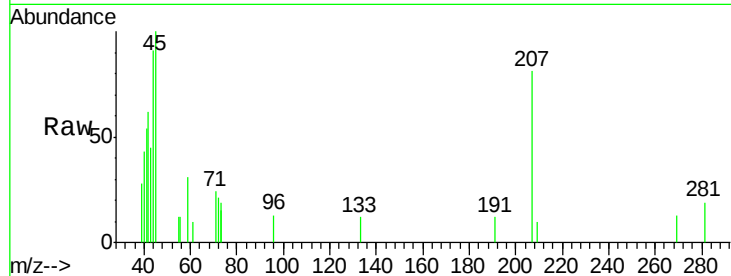




#29
Tetrahydrofuran
Concen: 0.662 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX016307.D
Acq: 18 May 2020 18:26

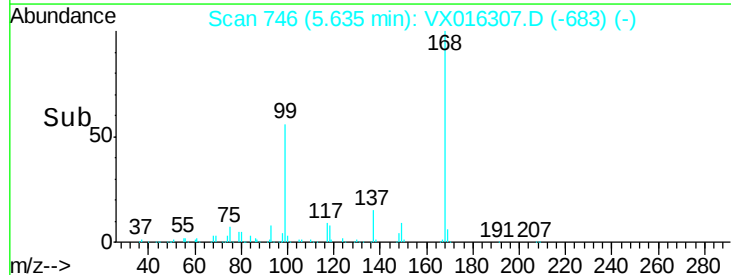
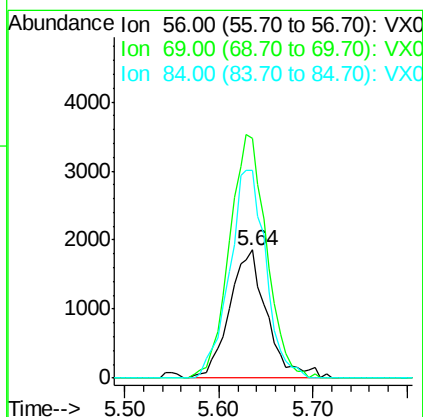
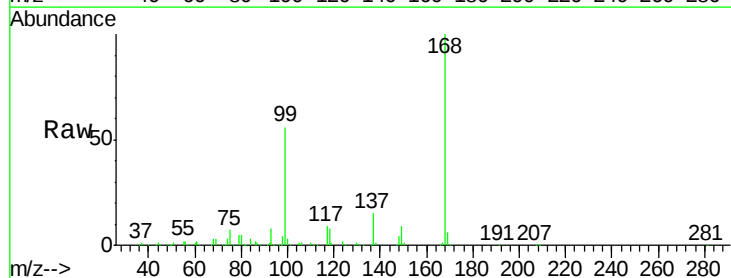
Instrument :
MSVOA_X
ClientSampled :

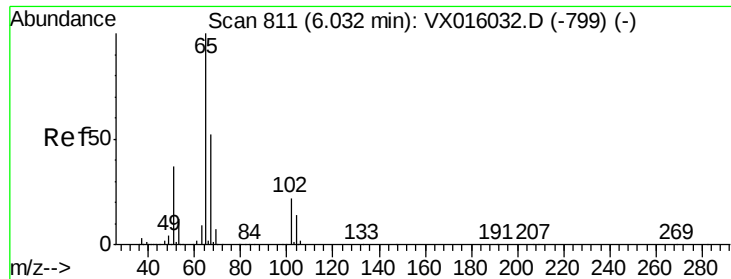
Tot Ion: 42 Resp: 1160
Ion Ratio Lower Upper
42 100
72 38.4 37.1 55.7
71 16.4 34.5 51.7#



#31
Cyclohexane
Concen: 1.010 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX016307.D
Acq: 18 May 2020 18:26

Tgt Ion: 56 Resp: 5160
Ion Ratio Lower Upper
56 100
69 187.1 25.0 37.6#
84 162.5 69.0 103.6#





#33

1,2-Dichloroethane-d4

Concen: 43.623 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

Instrument :

MSVOA_X

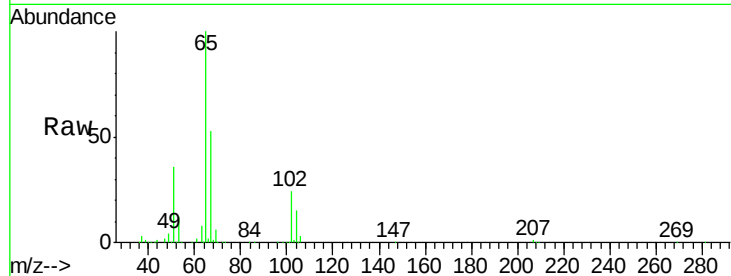
ClientSampleId :

Tot Ion: 65 Resp: 160464

Ion Ratio Lower Upper

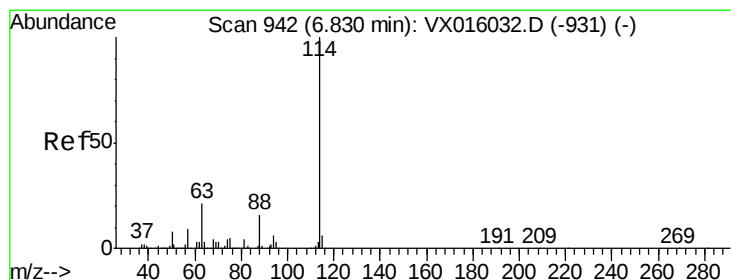
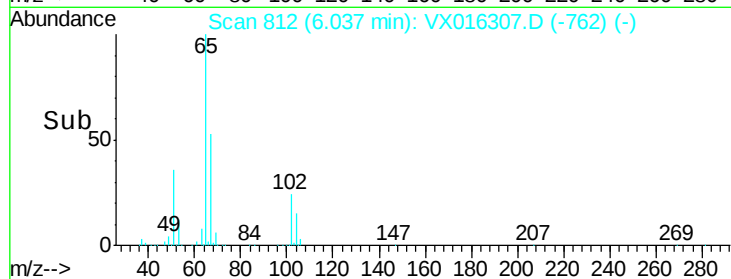
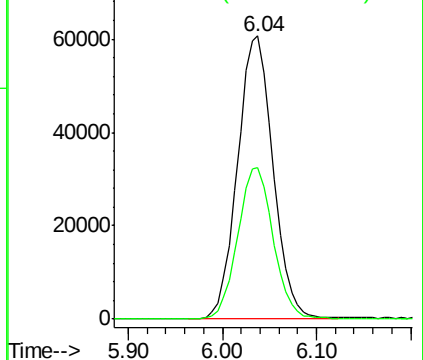
65 100

67 53.5 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

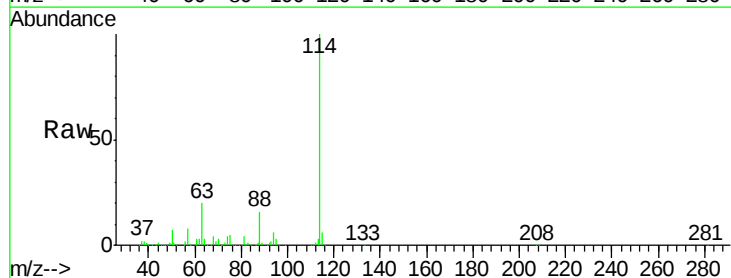
Tgt Ion: 114 Resp: 454343

Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.8

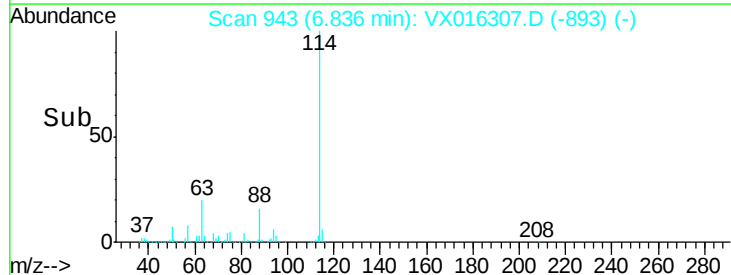
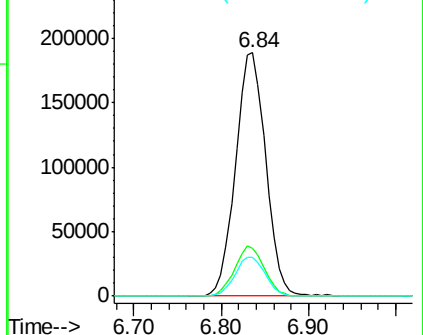
88 16.0 0.0 31.4

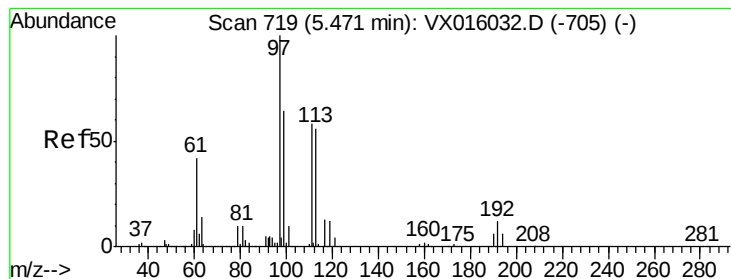


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 44.957 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

Instrument :

MSVOA_X

ClientSampleId :

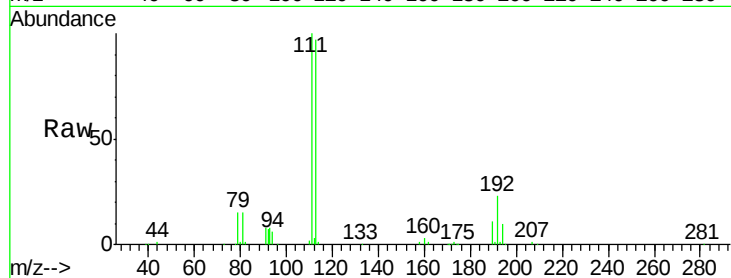
Tot Ion:113 Resp: 129407

Ion Ratio Lower Upper

113 100

111 103.1 81.6 122.4

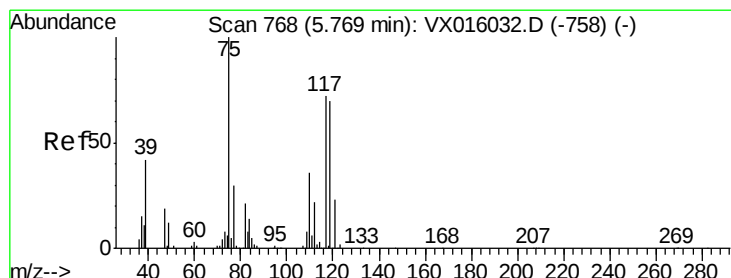
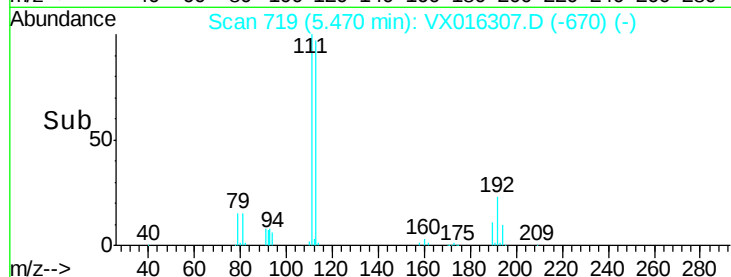
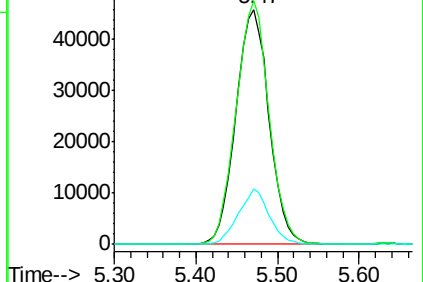
192 22.0 17.0 25.4



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: 4.511 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

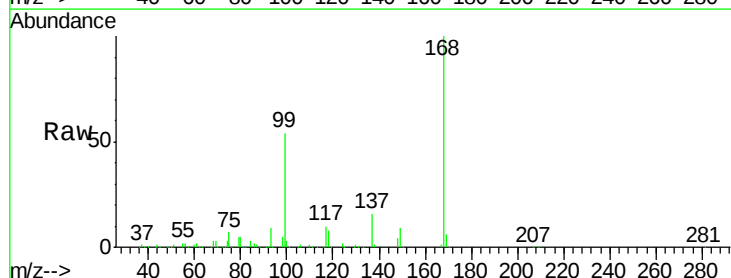
Tgt Ion: 75 Resp: 20175

Ion Ratio Lower Upper

75 100

110 9.6 18.1 54.1#

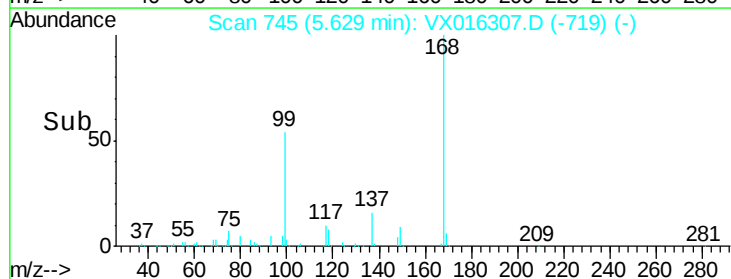
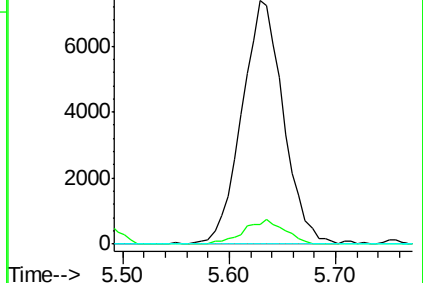
77 0.0 25.0 37.6#

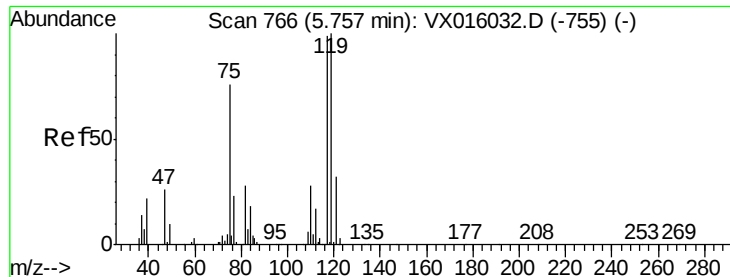


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.876 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

Instrument :

MSVOA_X

ClientSampled :

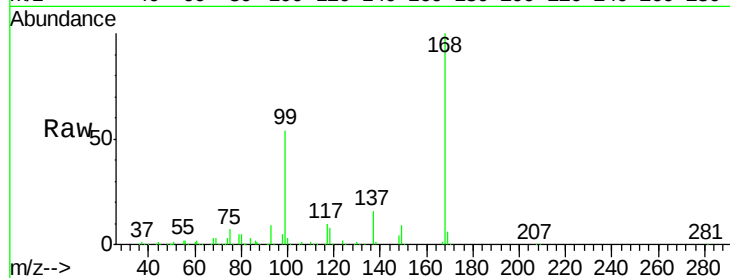
Tot Ion:117 Resp: 26713

Ion Ratio Lower Upper

117 100

119 5.1 80.3 120.5#

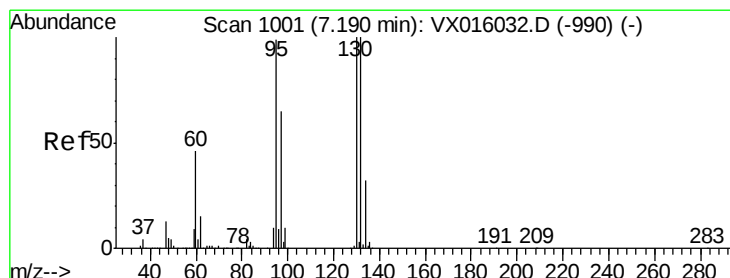
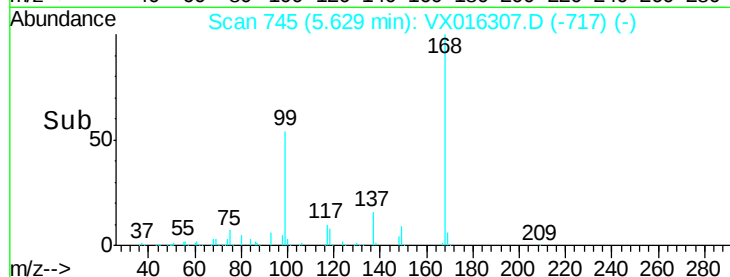
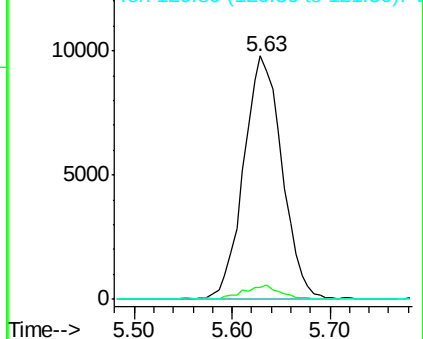
121 0.0 25.7 38.5#



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



#44

Trichloroethene

Concen: 1.650 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016307.D

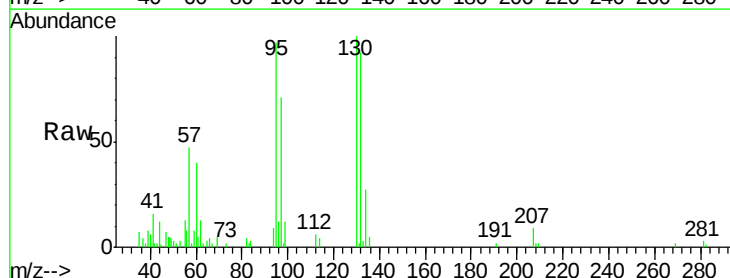
Acq: 18 May 2020 18:26

Tgt Ion:130 Resp: 7673

Ion Ratio Lower Upper

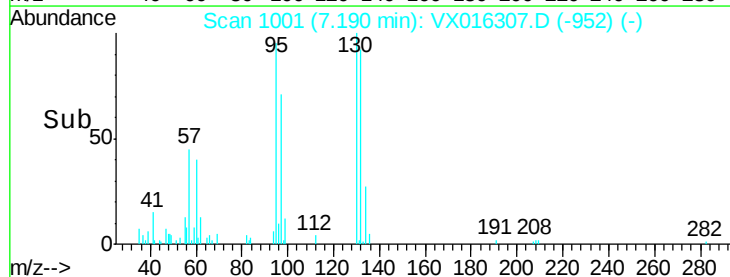
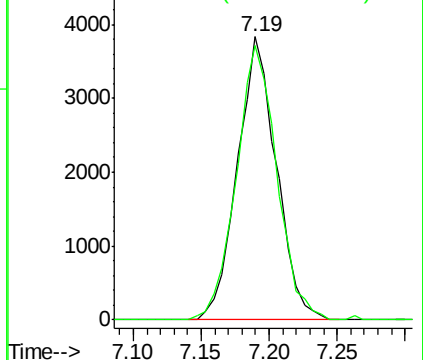
130 100

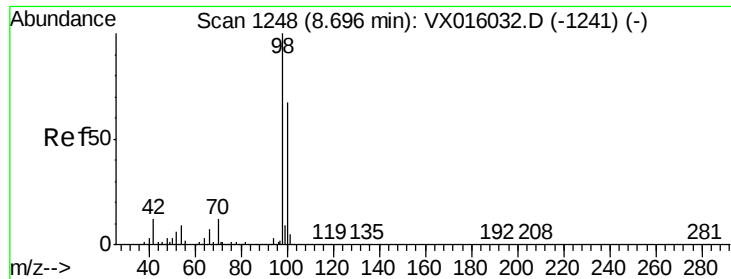
95 96.9 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 49.834 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

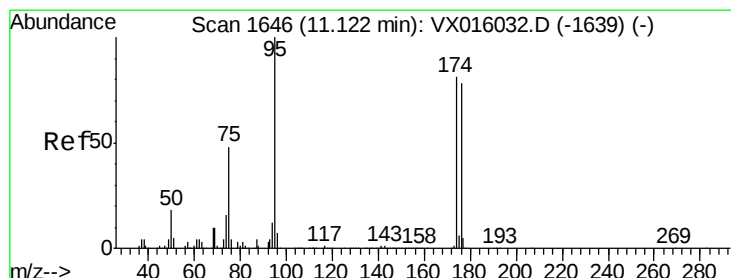
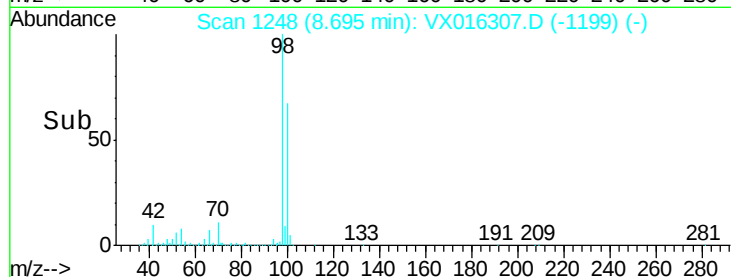
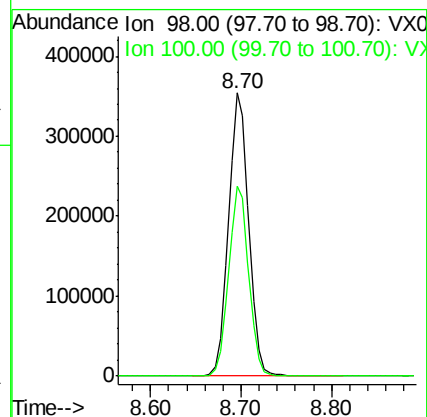
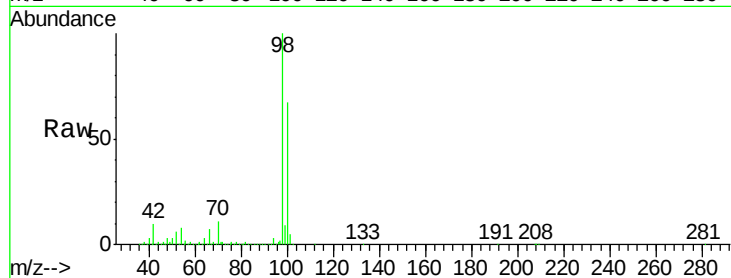
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 552708

Ion Ratio Lower Upper

98 100

100 67.0 53.7 80.5



#62

4-Bromofluorobenzene

Concen: 53.848 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

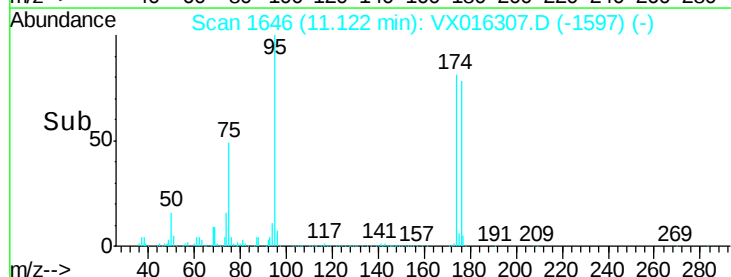
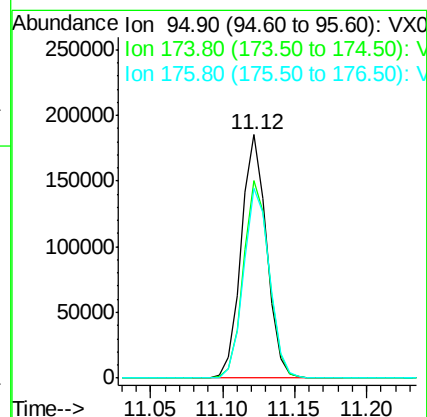
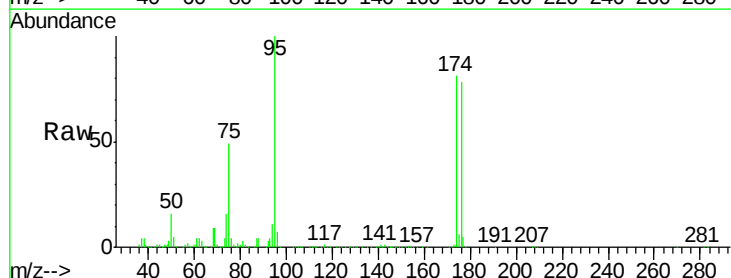
Tgt Ion: 95 Resp: 227157

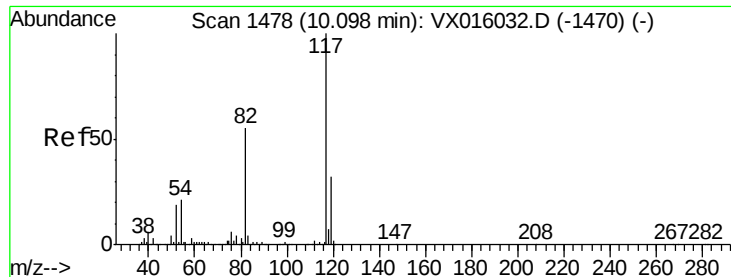
Ion Ratio Lower Upper

95 100

174 81.6 0.0 159.4

176 79.7 0.0 157.6

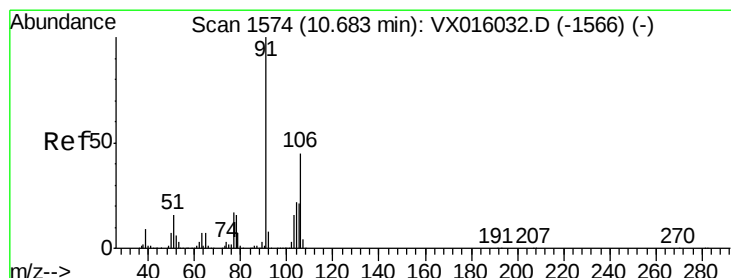
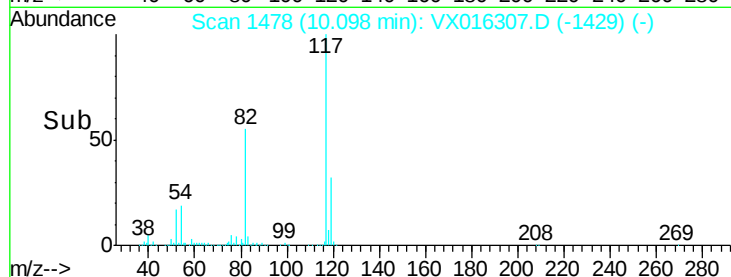
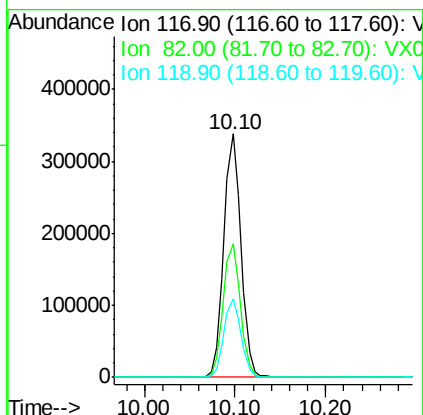
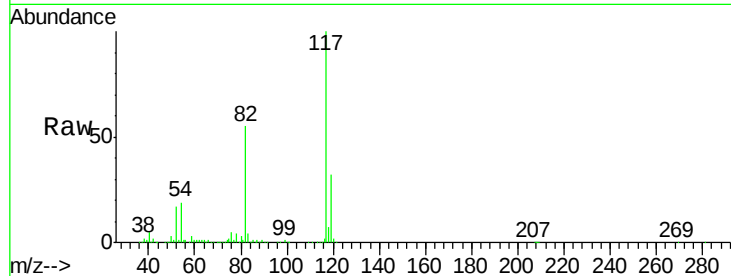




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016307.D
Acq: 18 May 2020 18:26

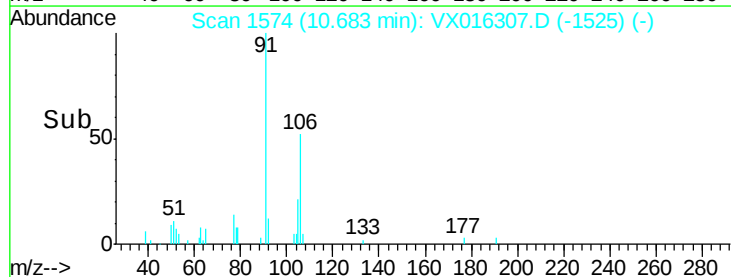
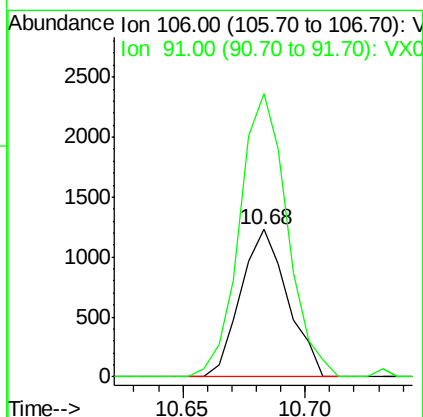
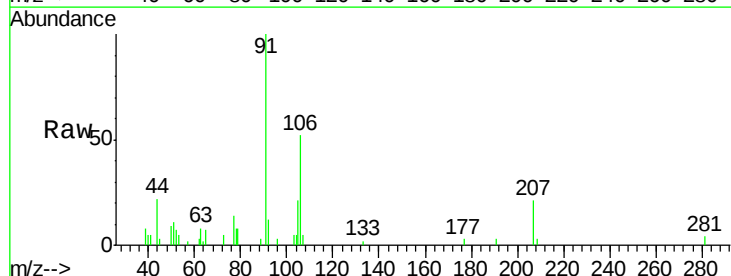
Instrument :
MSVOA_X
ClientSampled :

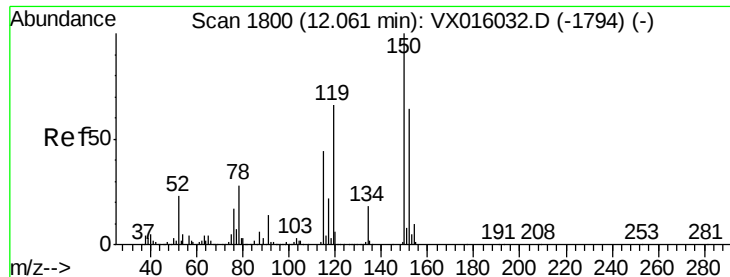
Tot Ion:117 Resp: 448762
Ion Ratio Lower Upper
117 100
82 55.1 44.4 66.6
119 32.3 25.5 38.3



#69
o-Xylene
Concen: 0.271 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX016307.D
Acq: 18 May 2020 18:26

Tgt Ion:106 Resp: 1639
Ion Ratio Lower Upper
106 100
91 194.8 107.5 322.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

Instrument :

MSVOA_X

ClientSampleId :

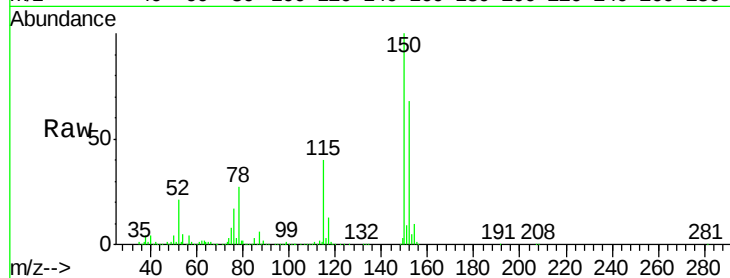
Tot Ion:152 Resp: 233652

Ion Ratio Lower Upper

152 100

115 57.4 41.3 124.1

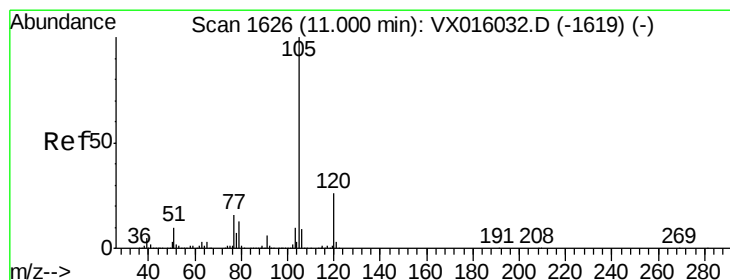
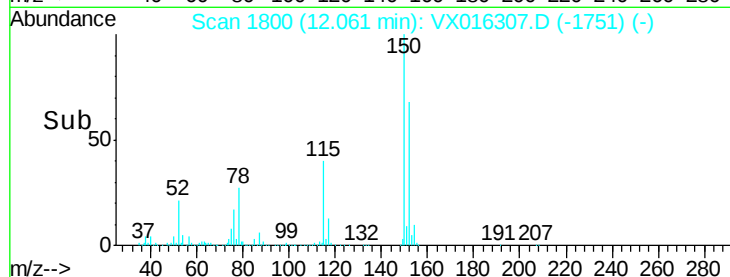
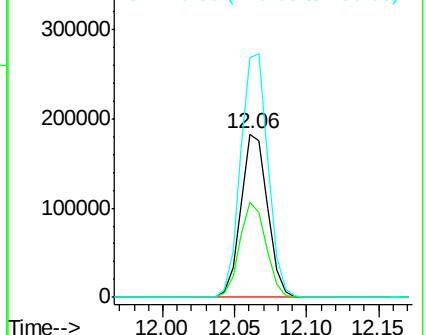
150 153.3 0.0 352.2



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



#73

Isopropylbenzene

Concen: 0.242 ug/l

RT: 11.01 min Scan# 1627

Delta R.T. 0.01 min

Lab File: VX016307.D

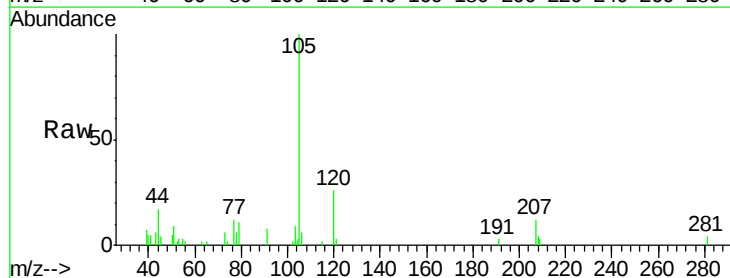
Acq: 18 May 2020 18:26

Tgt Ion:105 Resp: 4109

Ion Ratio Lower Upper

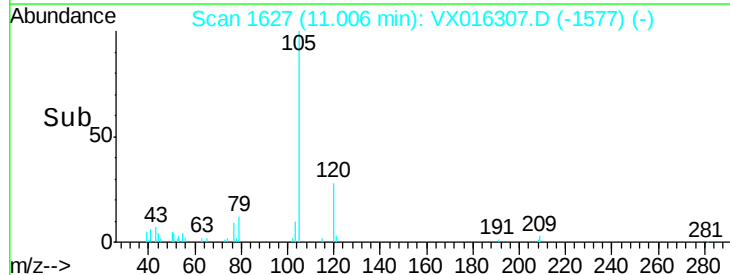
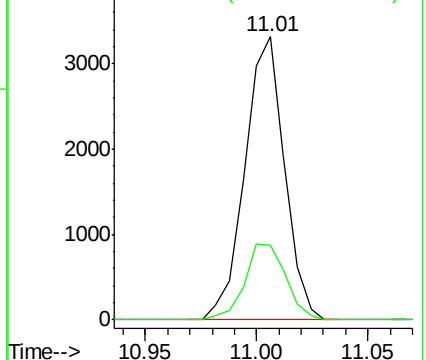
105 100

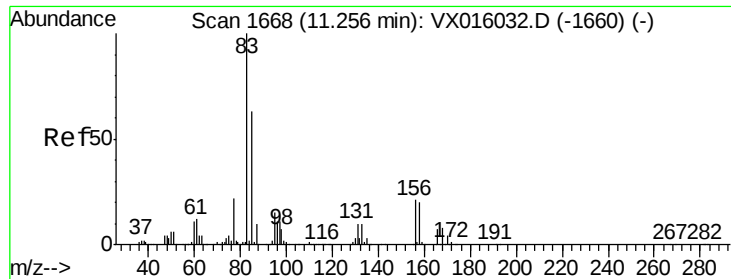
120 27.9 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 2.056 ug/l

RT: 11.30 min Scan# 1676

Delta R.T. 0.05 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

Instrument :

MSVOA_X

ClientSampleId :

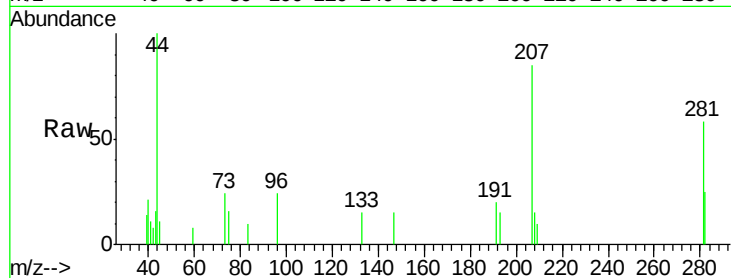
Tot Ion: 83 Resp: 23

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

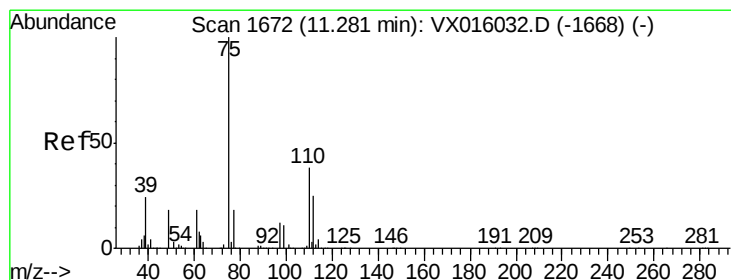
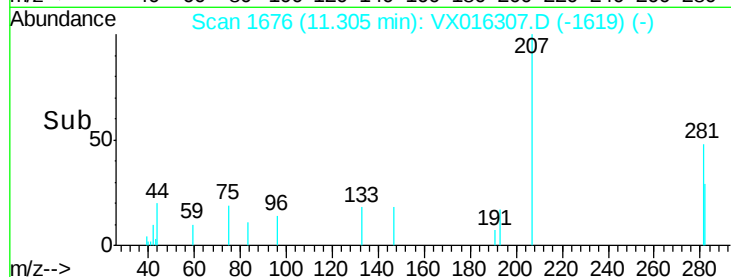
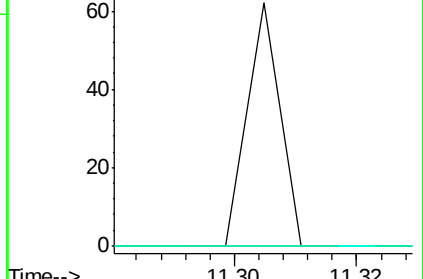
85 0.0 32.0 96.0#



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: 20.932 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016307.D

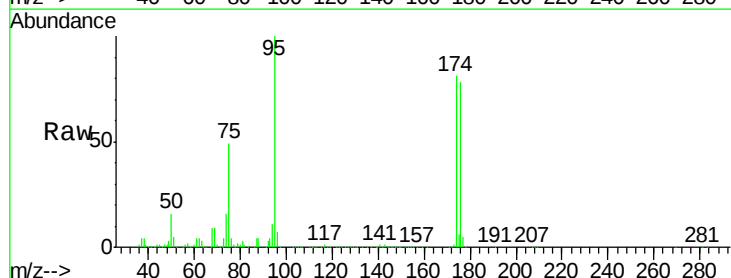
Acq: 18 May 2020 18:26

Tgt Ion: 75 Resp: 110983

Ion Ratio Lower Upper

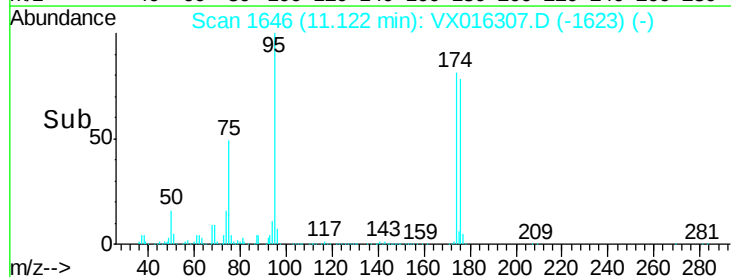
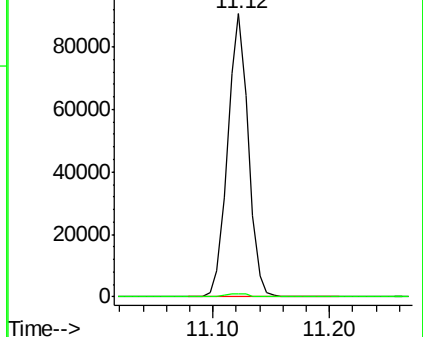
75 100

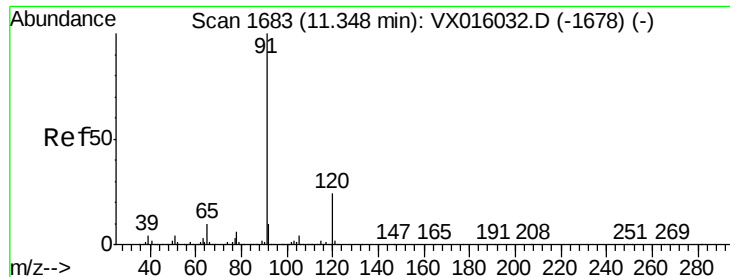
77 1.3 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#78

n-propylbenzene

Concen: 0.339 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. -0.01 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

Instrument :

MSVOA_X

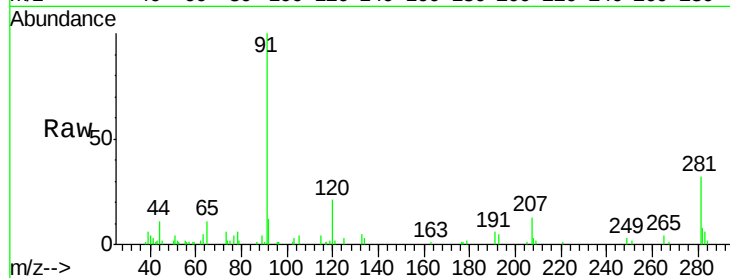
ClientSampleId :

Tot Ion: 91 Resp: 6695

Ion Ratio Lower Upper

91 100

120 24.5 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

11.34

6000

5000

4000

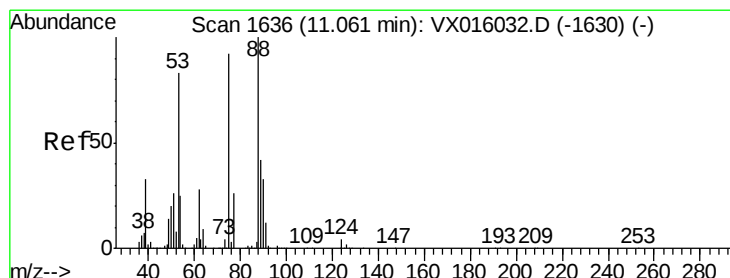
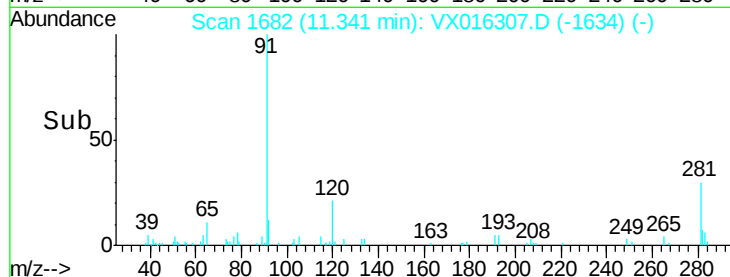
3000

2000

1000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 49.882 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

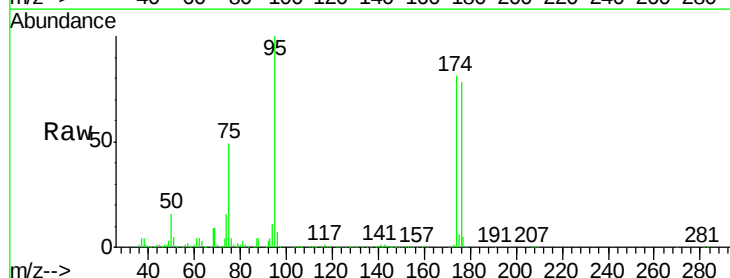
Tgt Ion: 75 Resp: 110983

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#



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

120000

100000

80000

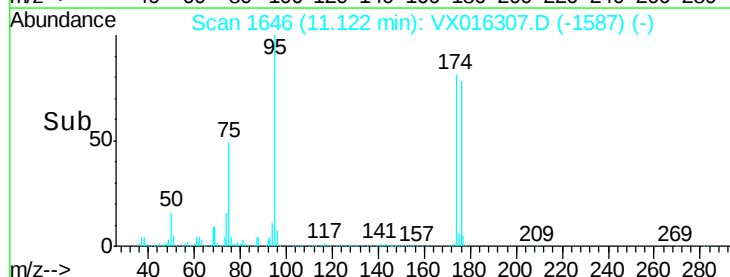
60000

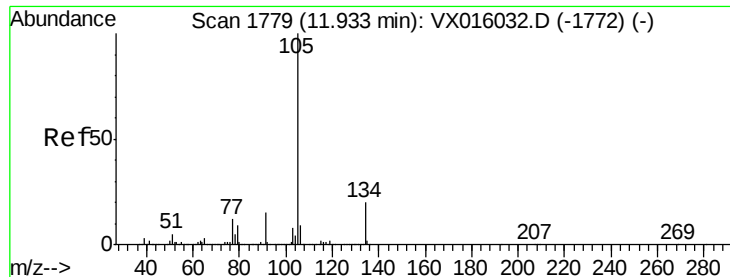
40000

20000

0

Time-->





#85

sec-Butylbenzene

Concen: 0.270 ug/l

RT: 11.93 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VX016307.D

Acq: 18 May 2020 18:26

Instrument :

MSVOA_X

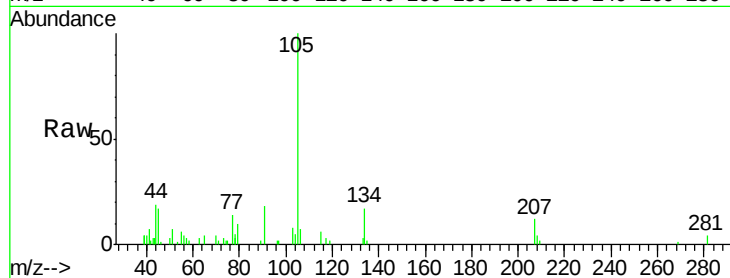
ClientSampleId :

Tot Ion:105 Resp: 4507

Ion Ratio Lower Upper

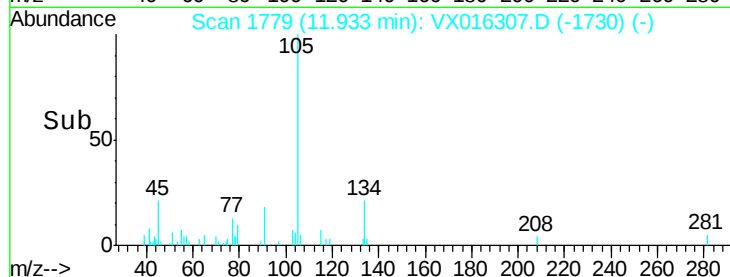
105 100

134 31.0 10.1 30.3#

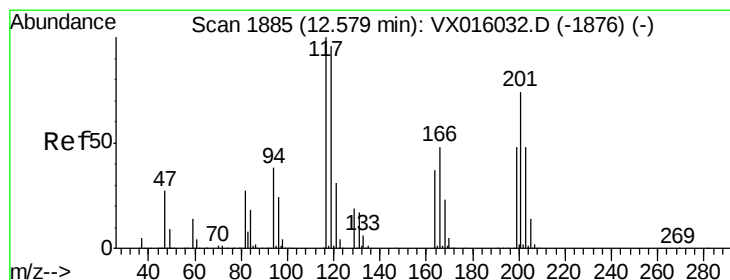


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#90

Hexachloroethane

Concen: 1.041 ug/l

RT: 12.69 min Scan# 1903

Delta R.T. 0.11 min

Lab File: VX016307.D

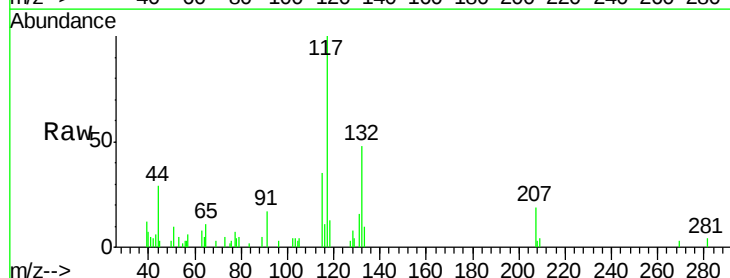
Acq: 18 May 2020 18:26

Tgt Ion:117 Resp: 2771

Ion Ratio Lower Upper

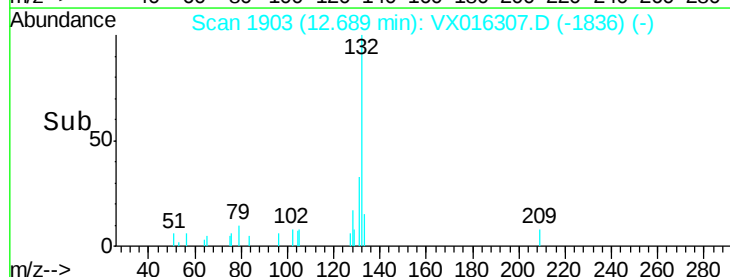
117 100

201 0.0 39.8 119.3#

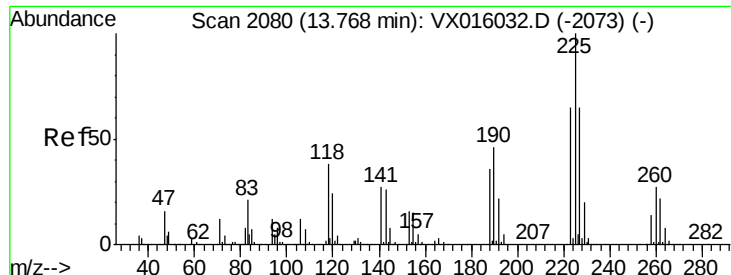


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



Time-->



#94

Hexachlorobutadiene

Concen: 0.573 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

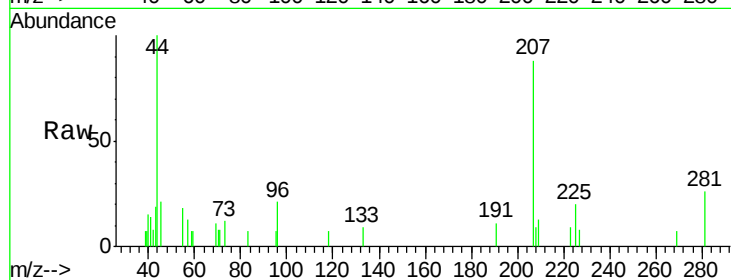
Lab File: VX016307.D

Acq: 18 May 2020 18:26

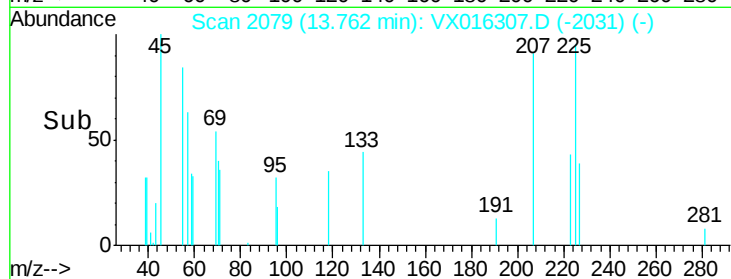
Instrument :

MSVOA_X

ClientSampleId :



Tot Ion:	225	Resp:	122
Ion Ratio	Lower	Upper	
225	100		
223	20.5	32.3	96.9#
227	36.9	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

