

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050820\
 Data File : VX016131.D
 Acq On : 08 May 2020 19:05
 Operator : JC/SP
 Sample : L2554-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 09 01:52:24 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	274126	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	455396	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	446913	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	231670	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	172779	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	
35) Dibromofluoromethane	5.47	113	137180	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	
50) Toluene-d8	8.70	98	566157	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
62) 4-Bromofluorobenzene	11.12	95	227688	53.85	ug/l	0.00
Spiked Amount			Recovery	=	107.70%	

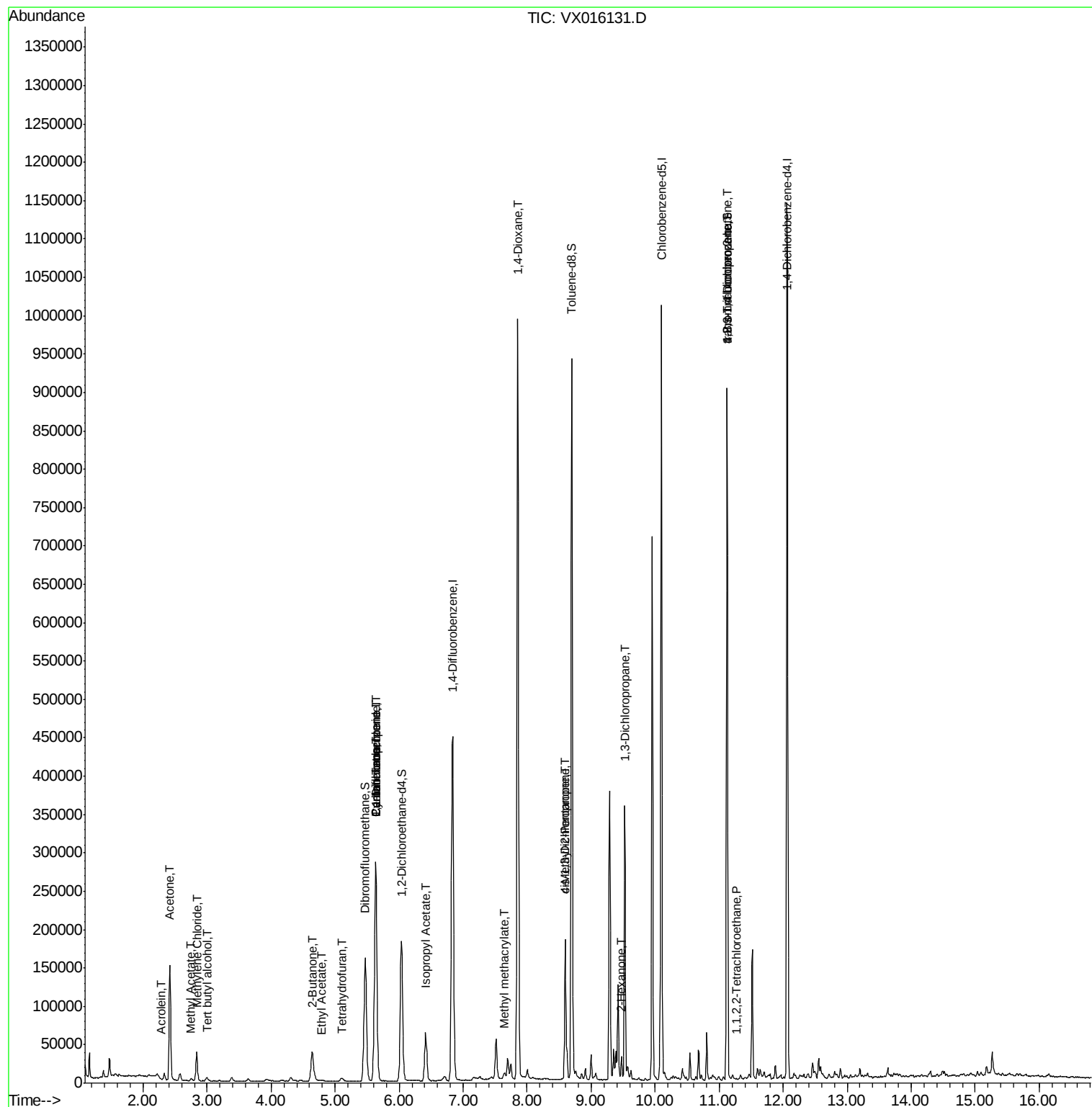
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.00	59	3821	4.189	ug/l #	81
13) Acrolein	2.28	56	233	0.408	ug/l #	14
16) Acetone	2.42	43	155230	96.446	ug/l	100
17) Carbon Disulfide	2.55	76	1371	Below Cal	#	50
18) Methyl Acetate	2.75	43	5011	1.266	ug/l	95
20) Methylene Chloride	2.84	84	16697	5.032	ug/l	98
25) 2-Butanone	4.64	43	58203	22.441	ug/l	98
29) Tetrahydrofuran	5.10	42	3665	2.133	ug/l	96
31) Cyclohexane	5.63	56	5509	1.099	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	20427	4.557	ug/l #	49
37) Ethyl Acetate	4.79	43	2266	0.436	ug/l #	75
38) Carbon Tetrachloride	5.63	117	26487	5.813	ug/l #	14
43) Isopropyl Acetate	6.42	43	80951	9.765	ug/l	100
48) Methyl methacrylate	7.65	41	7322	1.864	ug/l #	14
49) 1,4-Dioxane	7.85	88	186	1.974	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	74936	14.772	ug/l #	34
54) cis-1,3-Dichloropropene	8.60	75	30408	5.316	ug/l #	58
57) 1,3-Dichloropropane	9.52	76	3077	0.548	ug/l #	45
59) 2-Hexanone	9.48	43	13403	3.364	ug/l	88
75) 1,1,2,2-Tetrachloroethane	11.27	83	125	2.089	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	114568	21.793	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	114568	51.934	ug/l #	13

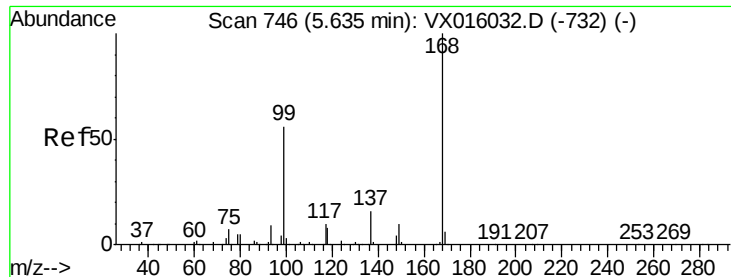
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
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# 746

Delta R.T. -0.00 min

Lab File: VX016131.D

Acq: 08 May 2020 19:05

Instrument :

MSVOA_X

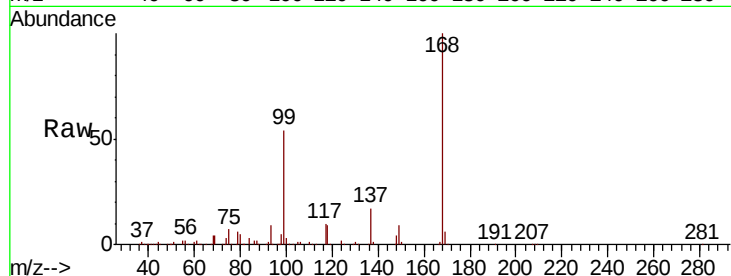
ClientSampled :

Tot Ion:168 Resp: 274126

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

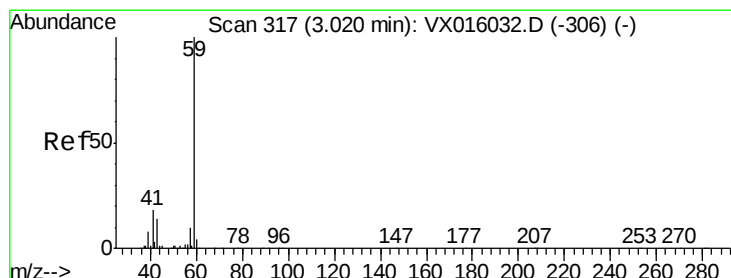
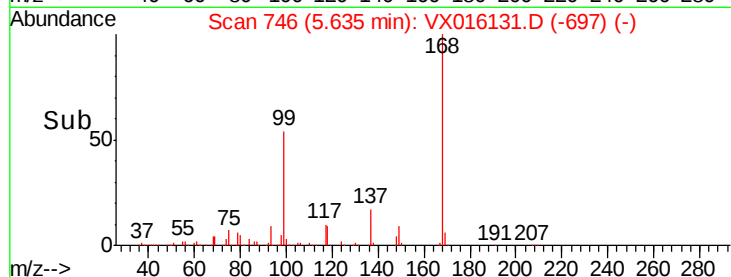
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 4.189 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX016131.D

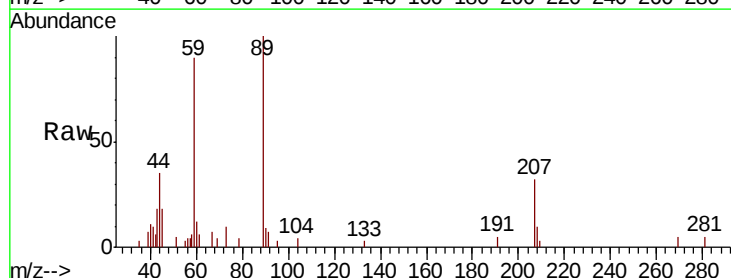
Acq: 08 May 2020 19:05

Tgt Ion: 59 Resp: 3821

Ion Ratio Lower Upper

59 100

57 3.3 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

1500

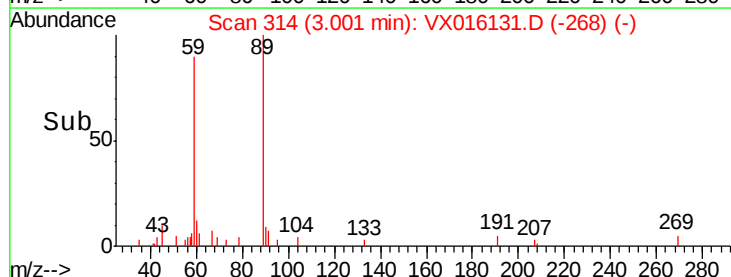
1000

500

0

Time-->

2.90 2.95 3.00 3.05

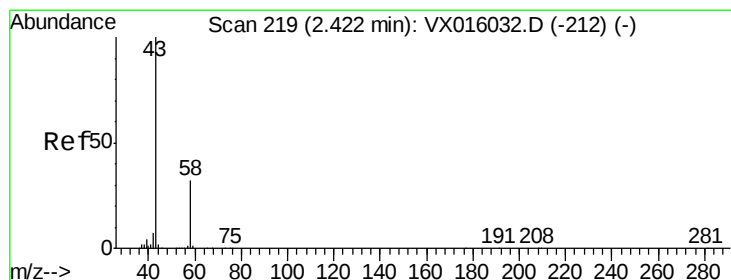
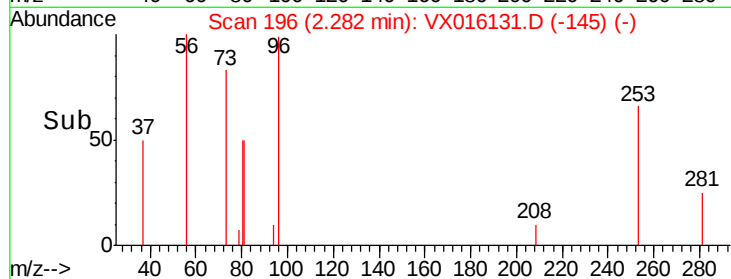
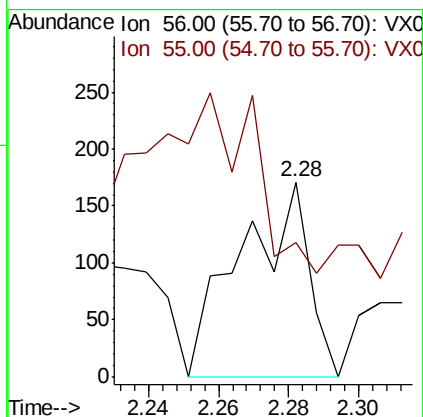
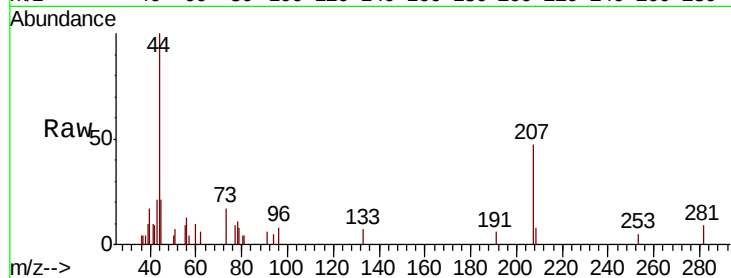




#13
Acrolein
Concen: 0.408 ug/l
RT: 2.28 min Scan# 196
Delta R.T. 0.01 min
Lab File: VX016131.D
Acq: 08 May 2020 19:05

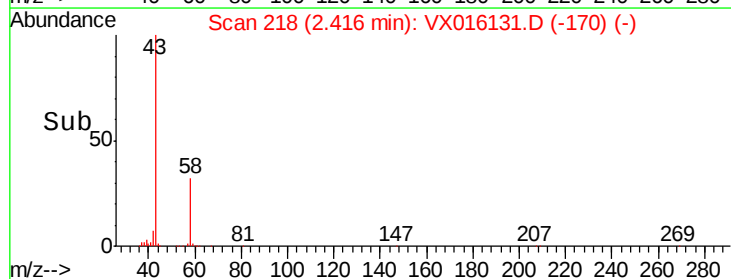
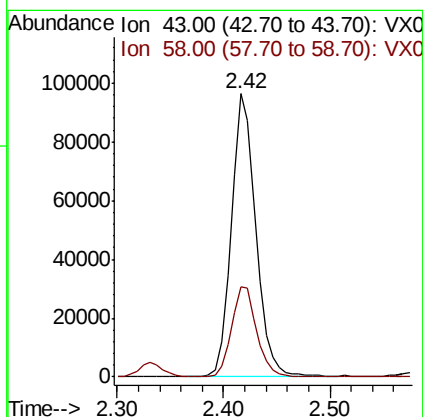
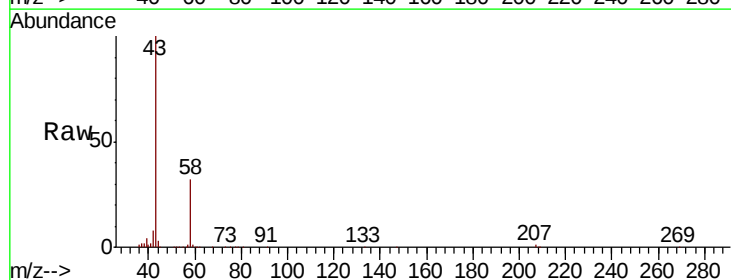
Instrument :
MSVOA_X
ClientSampleId :

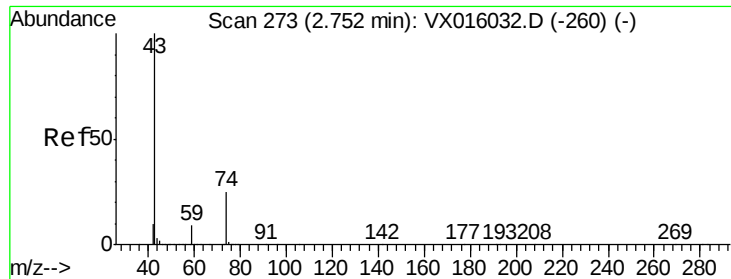
Tot Ion: 56 Resp: 233
Ion Ratio Lower Upper
56 100
55 0.0 56.5 84.7#



#16
Acetone
Concen: 96.446 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX016131.D
Acq: 08 May 2020 19:05

Tgt Ion: 43 Resp: 155230
Ion Ratio Lower Upper
43 100
58 31.7 25.4 38.0

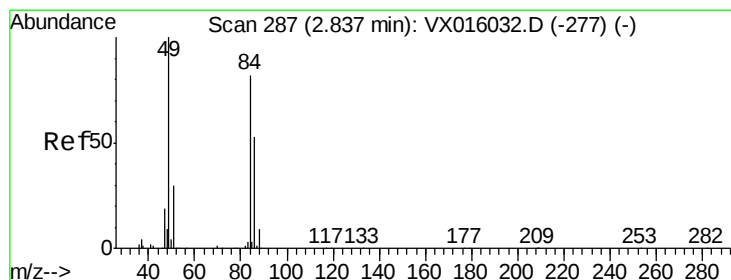
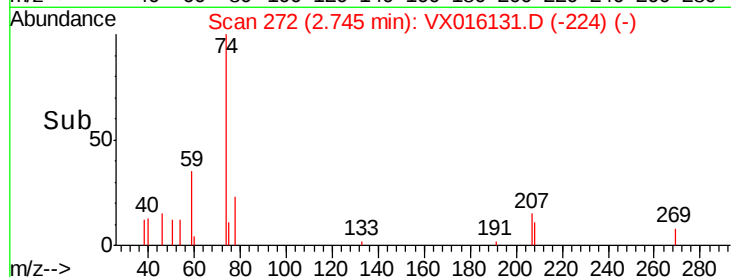
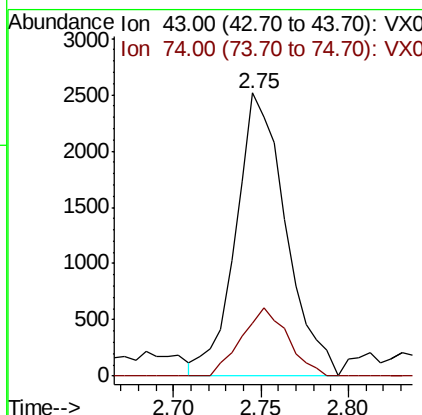
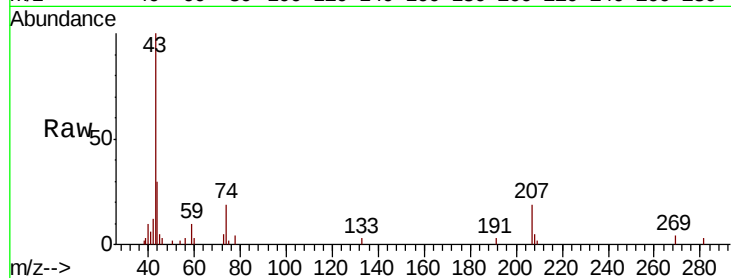




#18
Methyl Acetate
Concen: 1.266 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX016131.D
Acq: 08 May 2020 19:05

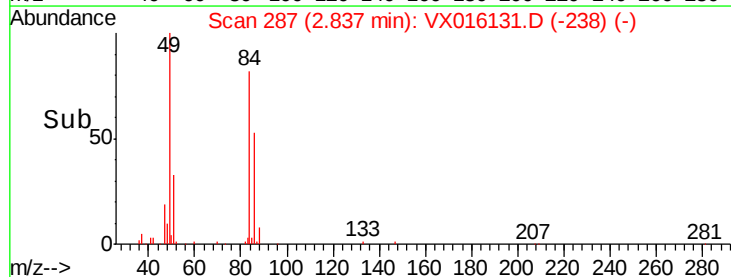
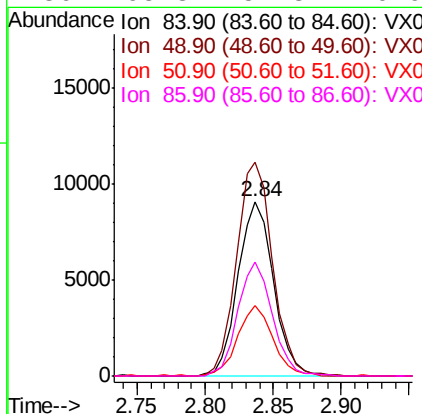
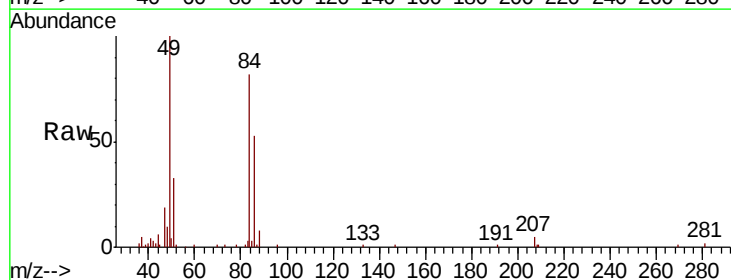
Instrument :
MSVOA_X
ClientSampled :

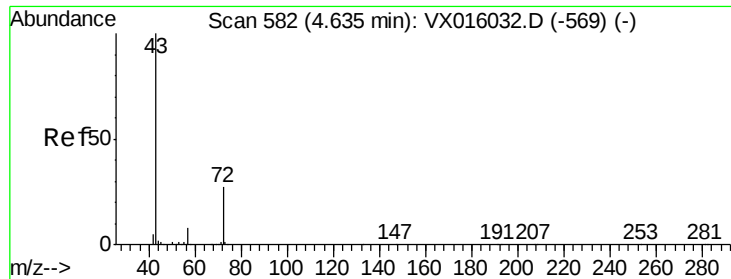
Tot Ion: 43 Resp: 5011
Ion Ratio Lower Upper
43 100
74 22.5 20.2 30.2



#20
Methylene Chloride
Concen: 5.032 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016131.D
Acq: 08 May 2020 19:05

Tgt Ion: 84 Resp: 16697
Ion Ratio Lower Upper
84 100
49 122.2 97.3 145.9
51 40.5 29.3 43.9
86 65.3 51.3 76.9





#25

2-Butanone

Concen: 22.441 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016131.D

Acq: 08 May 2020 19:05

Instrument :

MSVOA_X

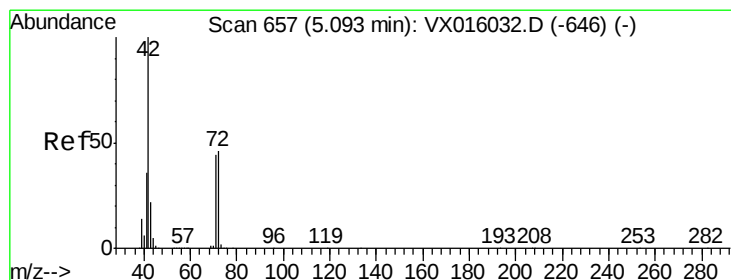
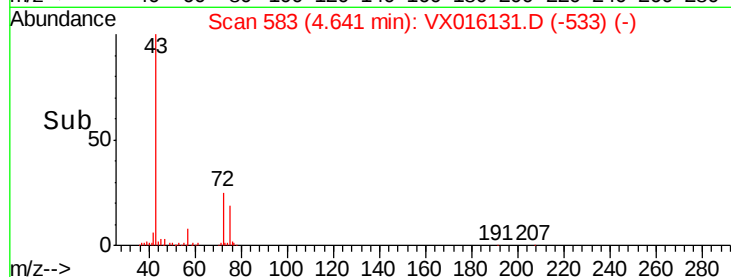
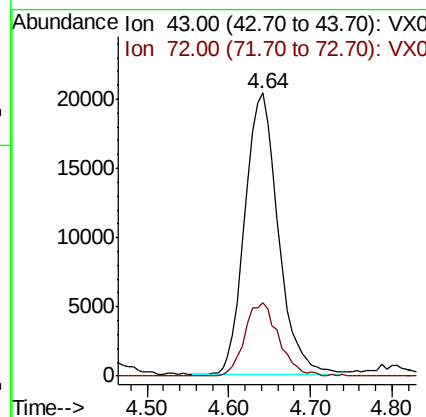
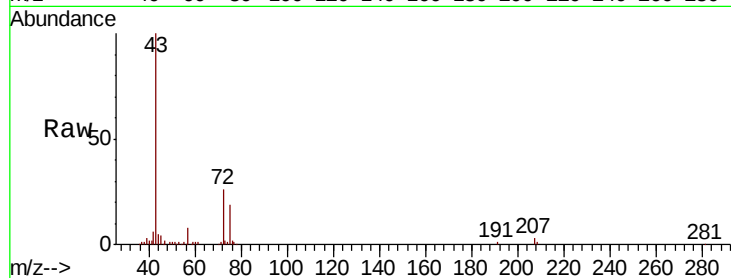
ClientSampleId :

Tot Ion: 43 Resp: 58203

Ion Ratio Lower Upper

43 100

72 26.2 21.8 32.8



#29

Tetrahydrofuran

Concen: 2.133 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX016131.D

Acq: 08 May 2020 19:05

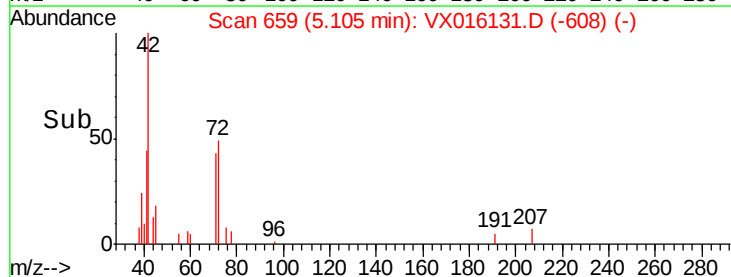
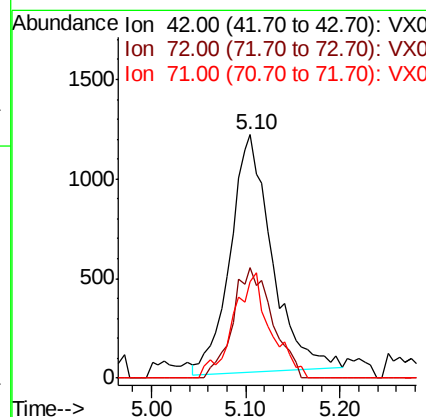
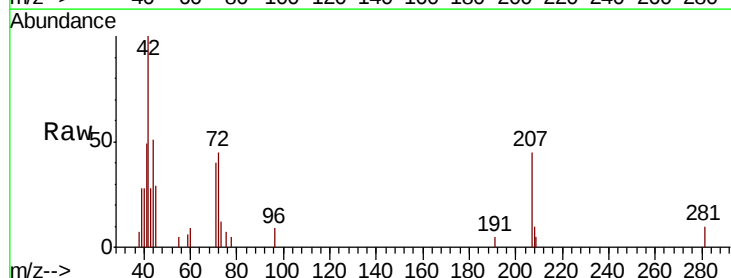
Tgt Ion: 42 Resp: 3665

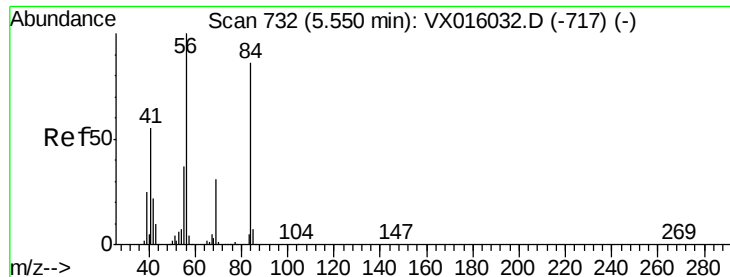
Ion Ratio Lower Upper

42 100

72 43.9 37.1 55.7

71 39.7 34.5 51.7

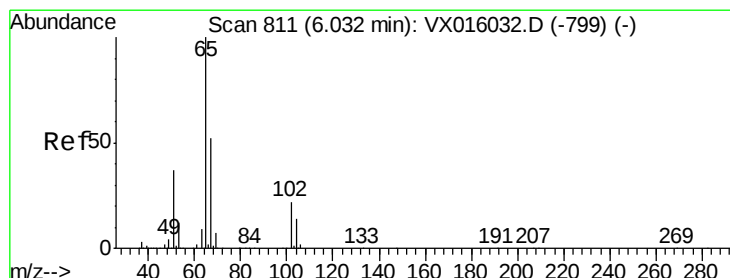
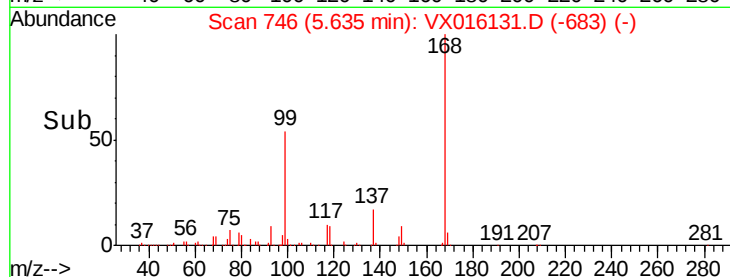
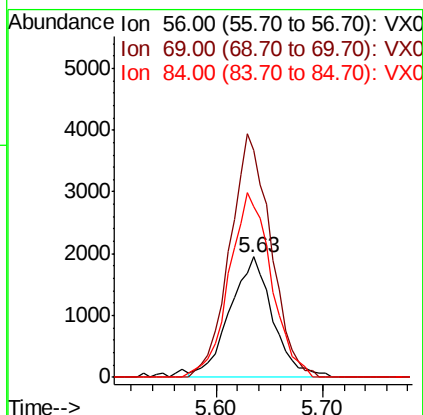
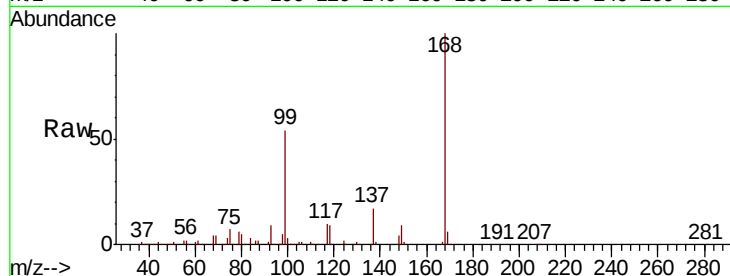




#31
Cyclohexane
Concen: 1.099 ug/l
RT: 5.63 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX016131.D
Acq: 08 May 2020 19:05

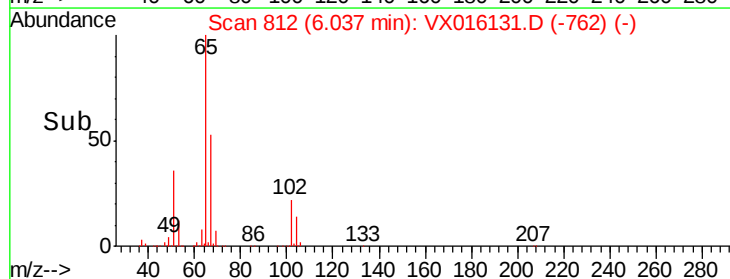
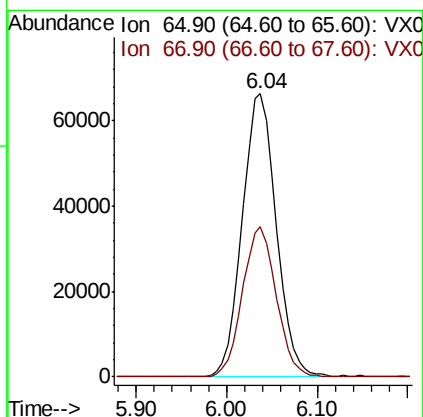
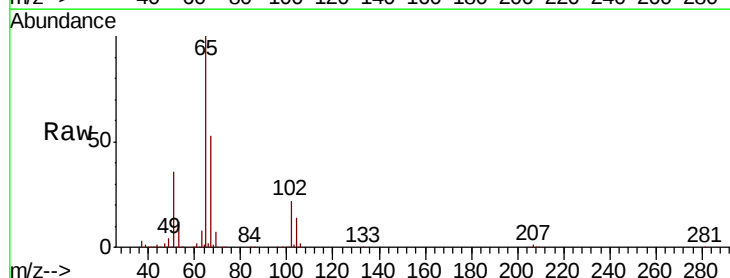
Instrument :
MSVOA_X
ClientSampled :

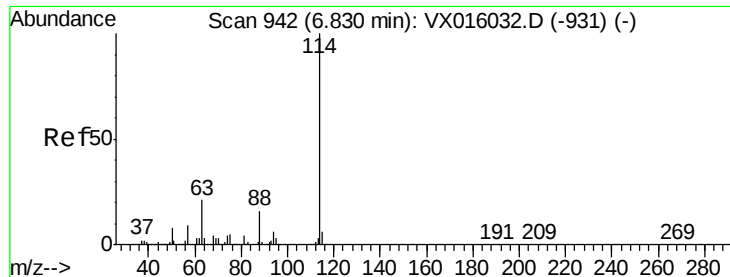
Tot Ion: 56 Resp: 5509
Ion Ratio Lower Upper
56 100
69 187.9 25.0 37.6#
84 141.0 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 47.898 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX016131.D
Acq: 08 May 2020 19:05

Tgt Ion: 65 Resp: 172779
Ion Ratio Lower Upper
65 100
67 52.7 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016131.D

Acq: 08 May 2020 19:05

Instrument :

MSVOA_X

ClientSampleId :

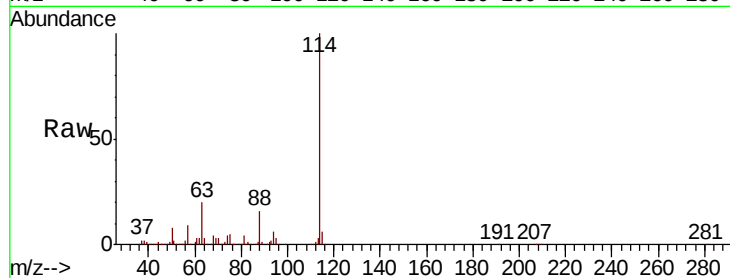
Tot Ion:114 Resp: 455396

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.8

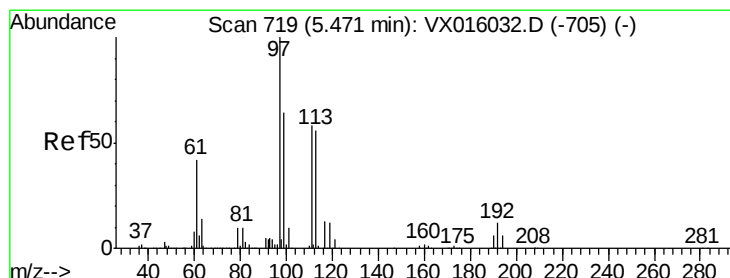
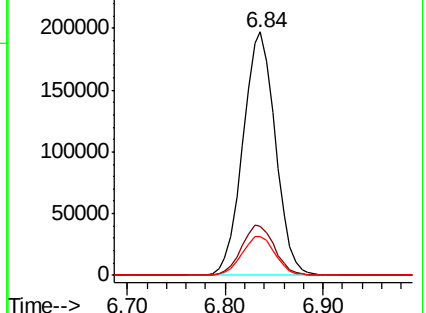
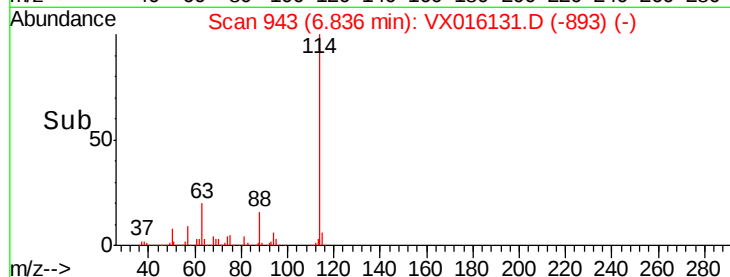
88 15.9 0.0 31.4



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



#35

Dibromofluoromethane

Concen: 47.547 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016131.D

Acq: 08 May 2020 19:05

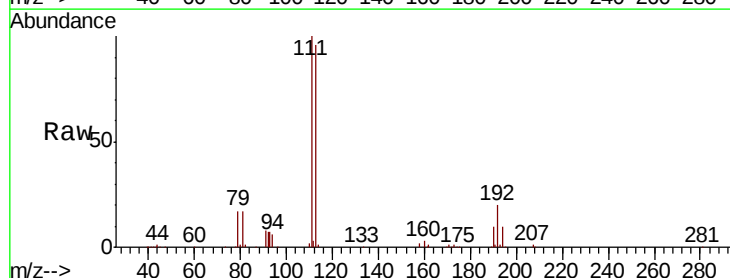
Tgt Ion:113 Resp: 137180

Ion Ratio Lower Upper

113 100

111 104.1 81.6 122.4

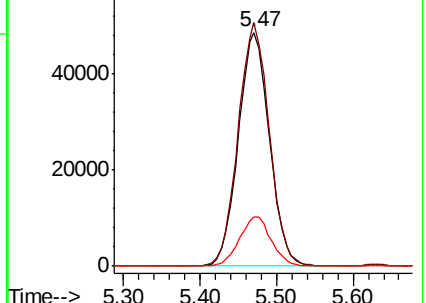
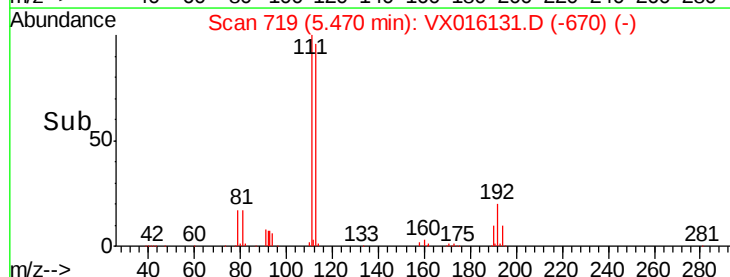
192 21.5 17.0 25.4

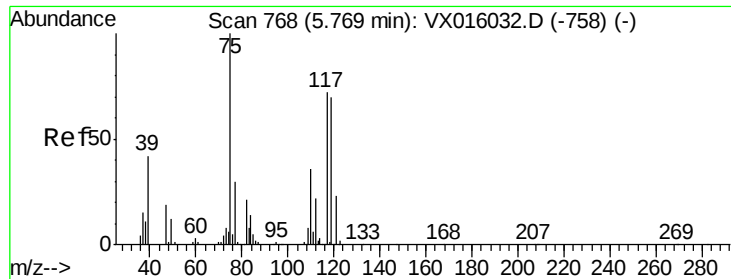


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.557 ug/l

RT: 5.63 min Scan# 745

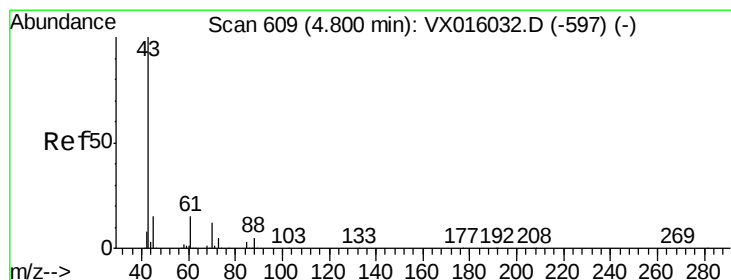
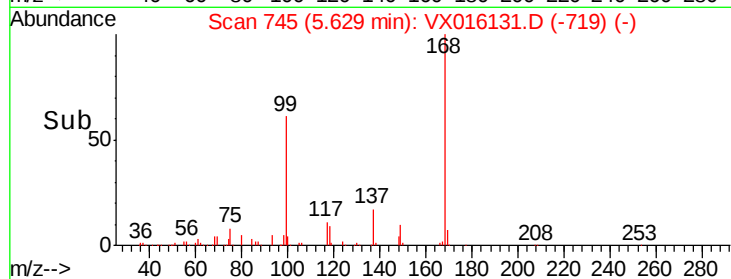
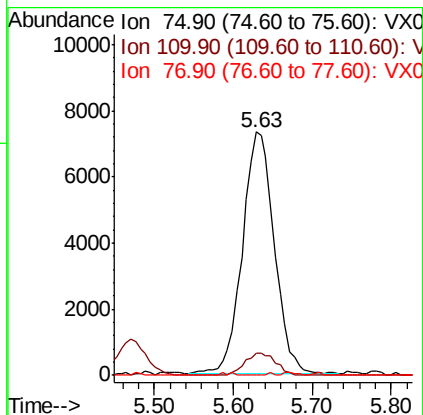
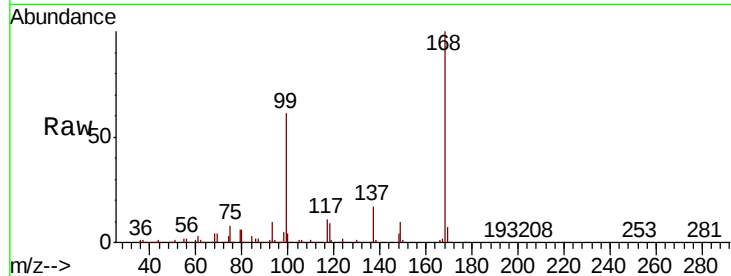
Delta R.T. -0.14 min

Lab File: VX016131.D

Acq: 08 May 2020 19:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	75	Resp:	20427
Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.1	54.1#
77	0.1	25.0	37.6#



#37

Ethyl Acetate

Concen: 0.436 ug/l

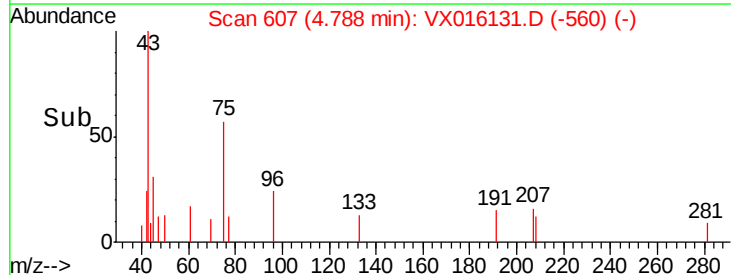
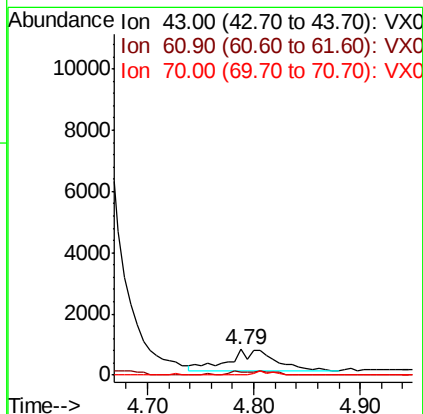
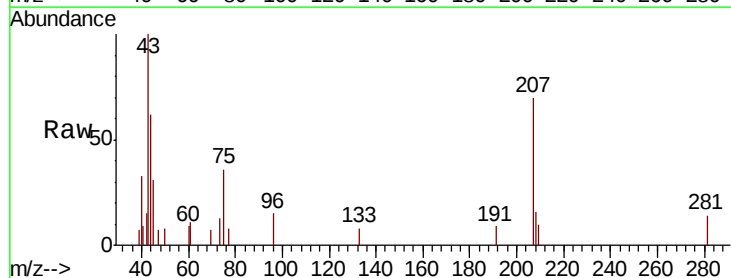
RT: 4.79 min Scan# 607

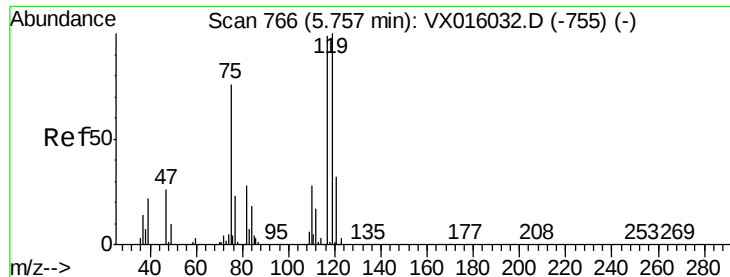
Delta R.T. -0.01 min

Lab File: VX016131.D

Acq: 08 May 2020 19:05

Tgt Ion:	43	Resp:	2266
Ion	Ratio	Lower	Upper
43	100		
61	6.3	11.7	17.5#
70	0.0	9.3	13.9#





#38

Carbon Tetrachloride

Concen: 5.813 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016131.D

Acq: 08 May 2020 19:05

Instrument :

MSVOA_X

ClientSampleId :

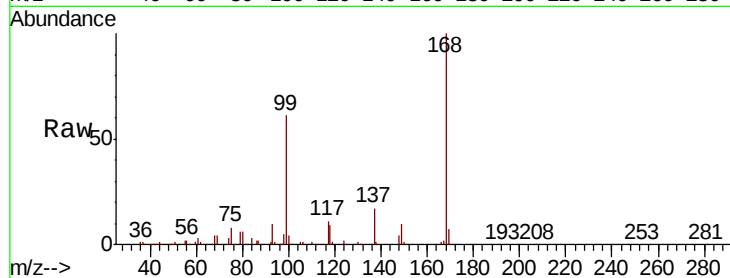
Tot Ion:117 Resp: 26487

Ion Ratio Lower Upper

117 100

119 4.9 80.3 120.5#

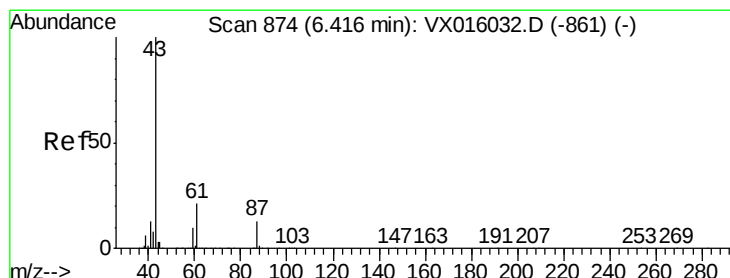
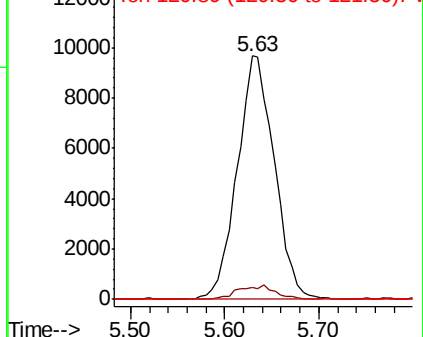
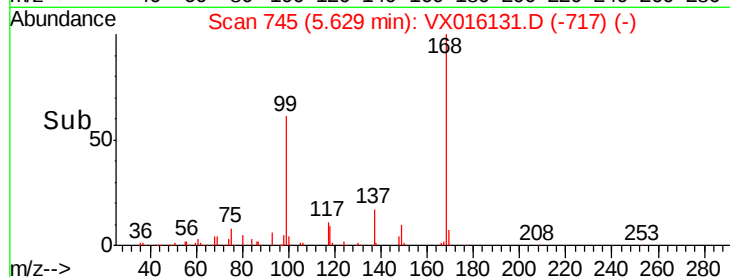
121 0.0 25.7 38.5#



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



#43

Isopropyl Acetate

Concen: 9.765 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX016131.D

Acq: 08 May 2020 19:05

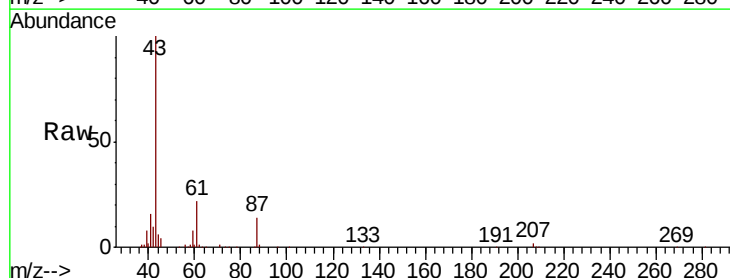
Tgt Ion: 43 Resp: 80951

Ion Ratio Lower Upper

43 100

61 21.1 17.0 25.4

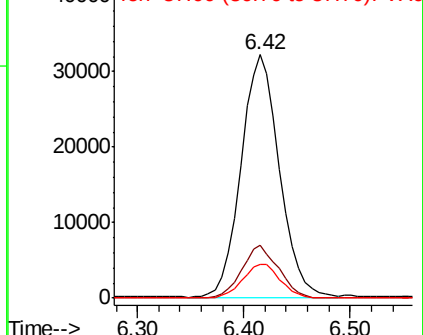
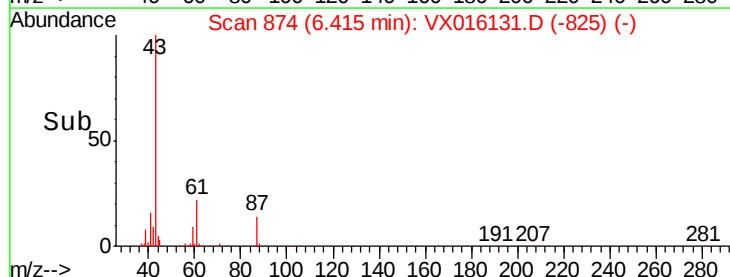
87 13.8 11.0 16.6

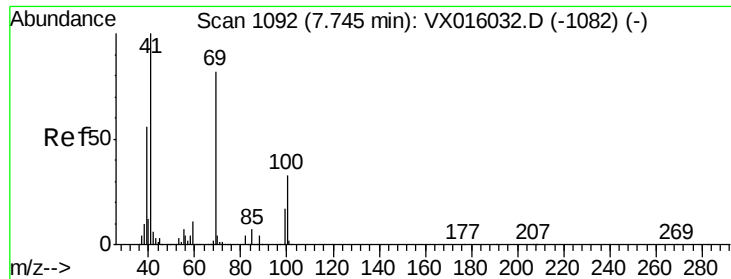


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

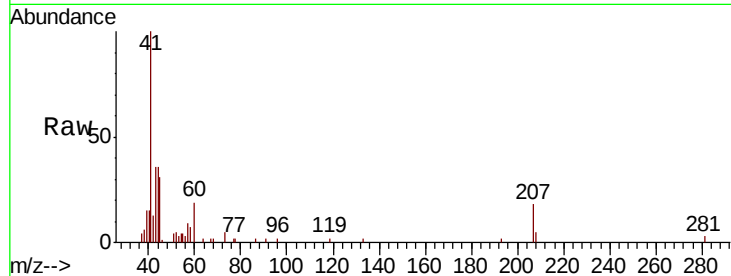




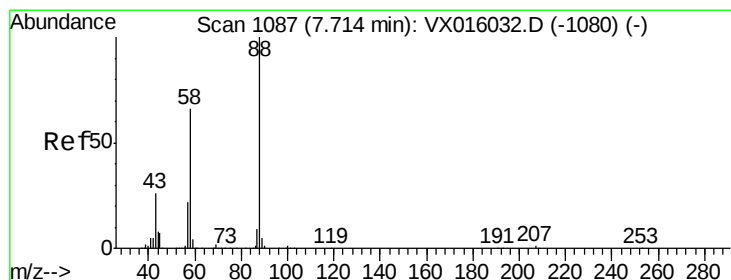
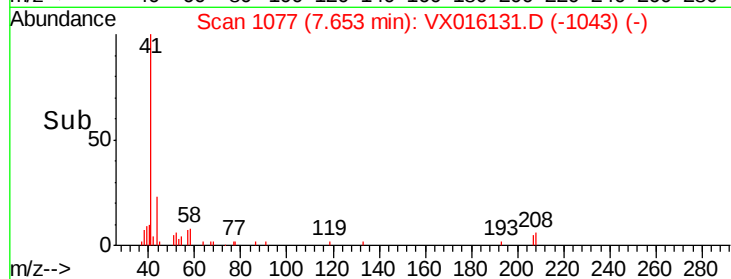
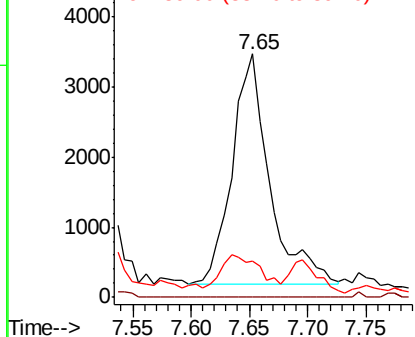
#48
Methvl methacrylate
Concen: 1.864 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX016131.D
Acq: 08 May 2020 19:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 41 Resp: 7322
Ion Ratio Lower Upper
41 100
69 0.0 67.8 101.6#
39 0.0 44.6 67.0#

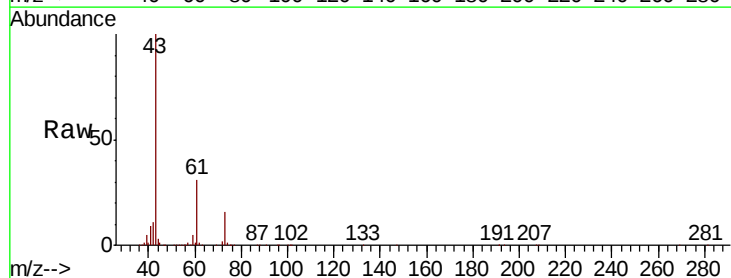


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

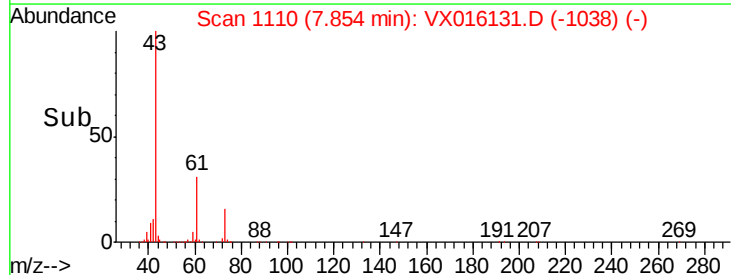
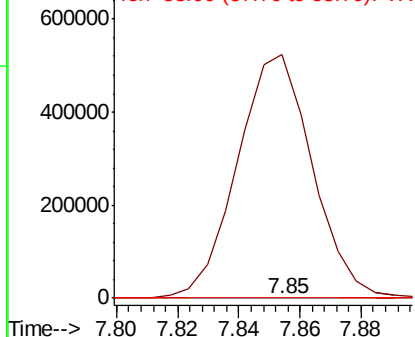


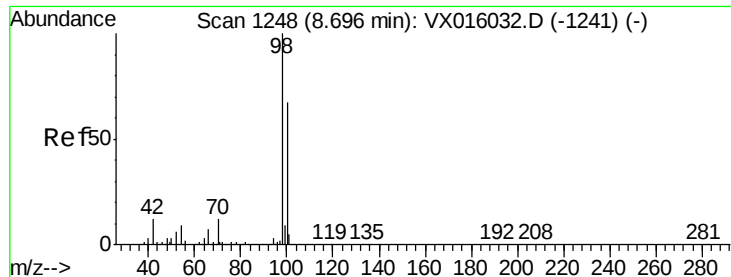
#49
1,4-Dioxane
Concen: 1.974 ug/l
RT: 7.85 min Scan# 1110
Delta R.T. 0.14 min
Lab File: VX016131.D
Acq: 08 May 2020 19:05

Tgt Ion: 88 Resp: 186
Ion Ratio Lower Upper
88 100
43 479759.1 25.3 37.9#
58 2125.8 55.9 83.9#



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





#50

Toluene-d8

Concen: 50.929 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016131.D

Acq: 08 May 2020 19:05

Instrument :

MSVOA_X

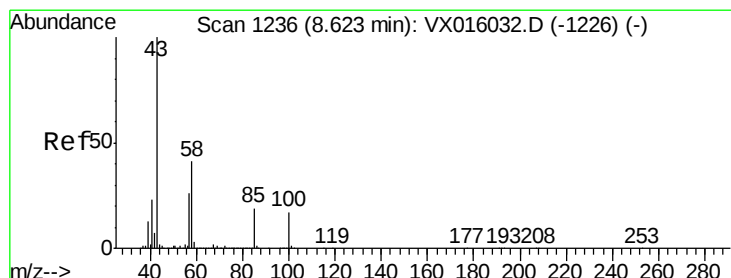
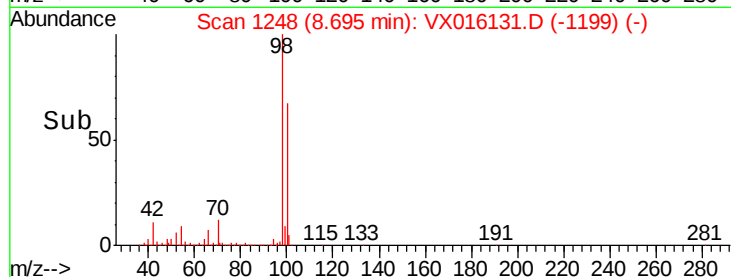
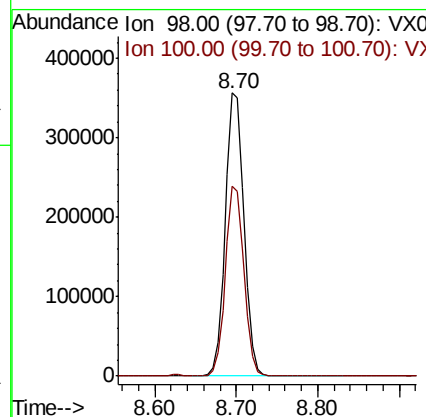
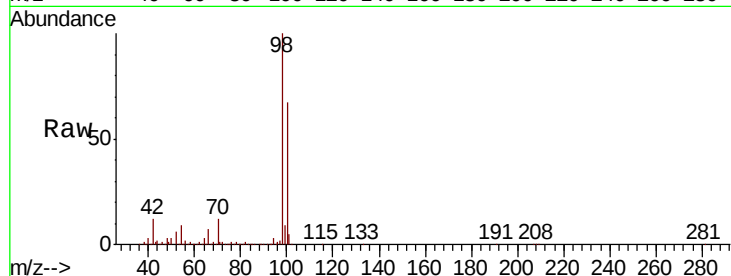
ClientSampleId :

Tot Ion: 98 Resp: 566157

Ion Ratio Lower Upper

98 100

100 66.8 53.7 80.5



#51

4-Methyl-2-Pentanone

Concen: 14.772 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX016131.D

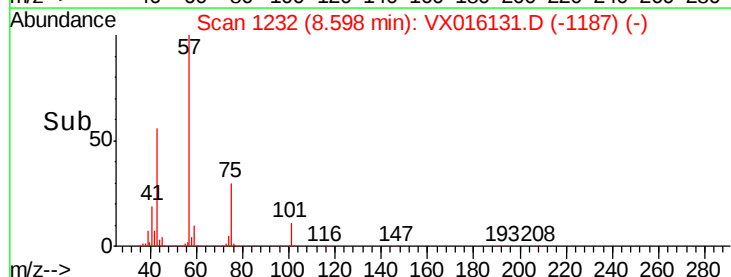
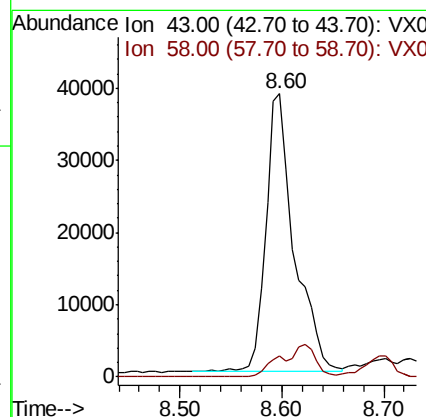
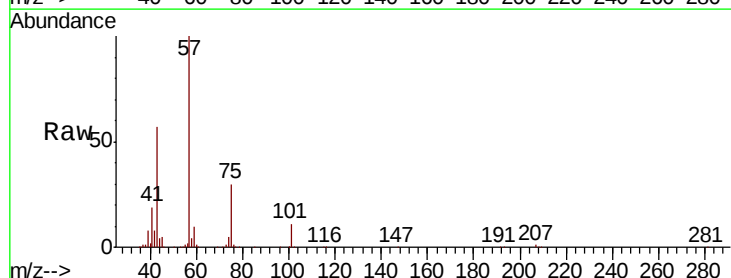
Acq: 08 May 2020 19:05

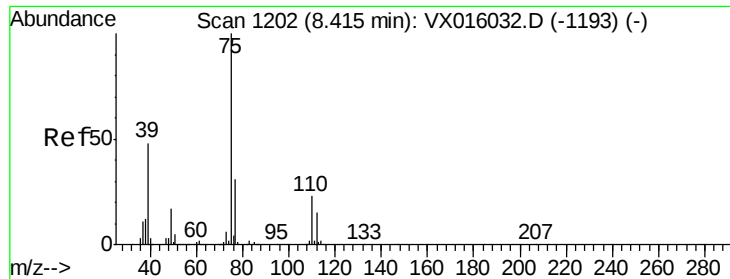
Tgt Ion: 43 Resp: 74936

Ion Ratio Lower Upper

43 100

58 0.0 33.0 49.4#



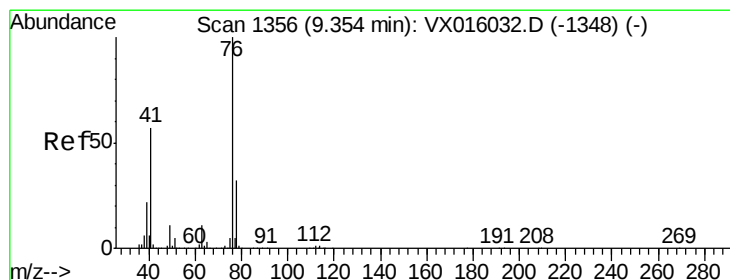
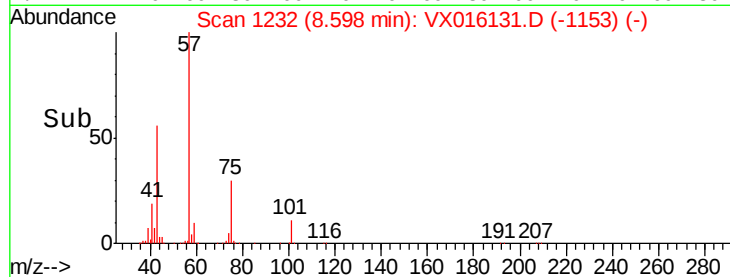
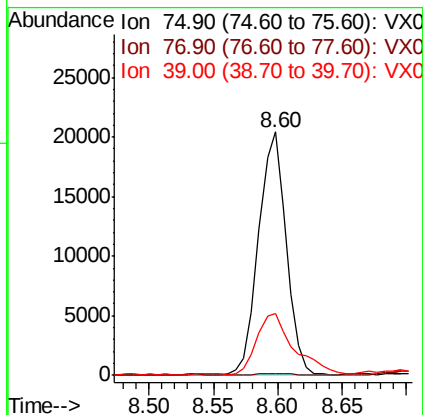
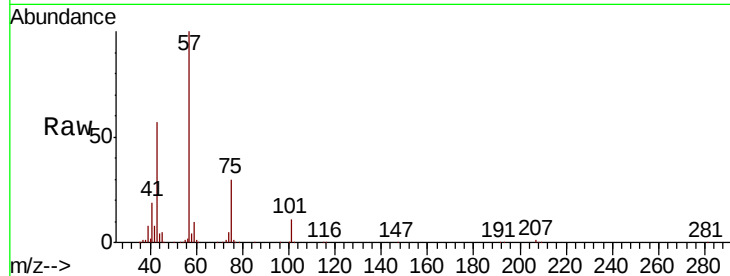


#54

cis-1,3-Dichloropropene
 Concen: 5.316 ug/l
 RT: 8.60 min Scan# 1232
 Delta R.T. 0.18 min
 Lab File: VX016131.D
 Acq: 08 May 2020 19:05

Instrument :
 MSVOA_X
 ClientSampled :

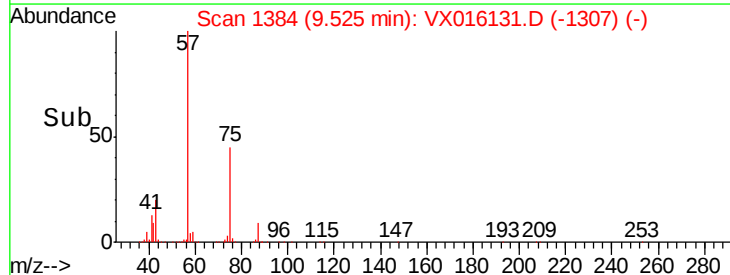
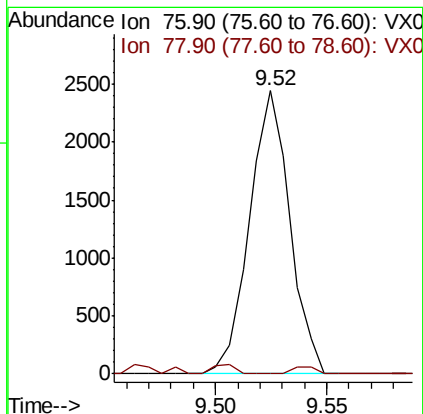
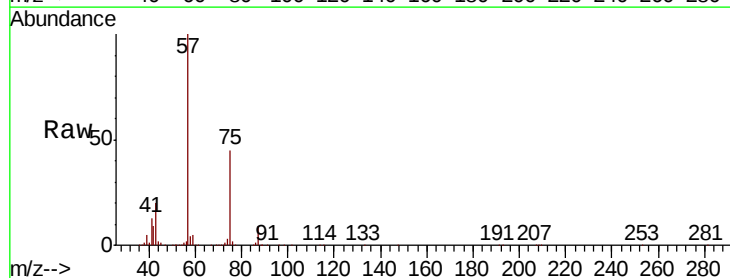
Tot Ion: 75 Resp: 30408
 Ion Ratio Lower Upper
 75 100
 77 0.6 24.7 37.1#
 39 25.2 38.7 58.1#

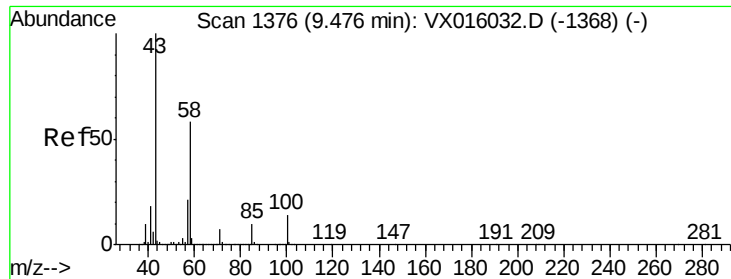


#57

1,3-Dichloropropane
 Concen: 0.548 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX016131.D
 Acq: 08 May 2020 19:05

Tgt Ion: 76 Resp: 3077
 Ion Ratio Lower Upper
 76 100
 78 1.4 25.9 38.9#

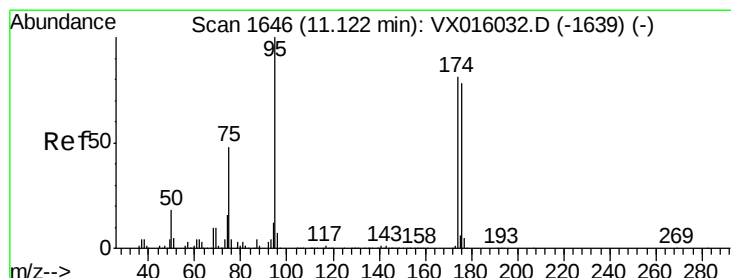
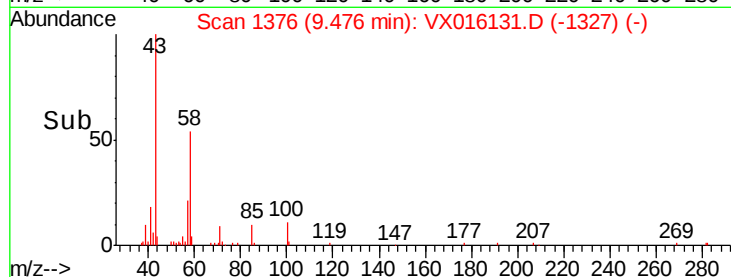
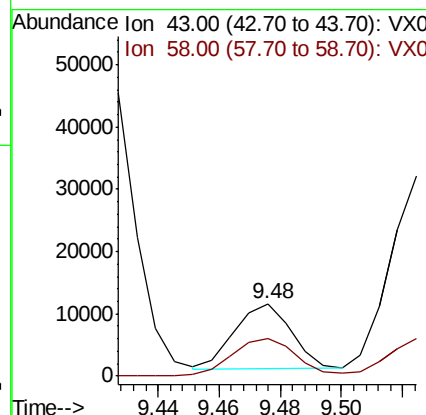
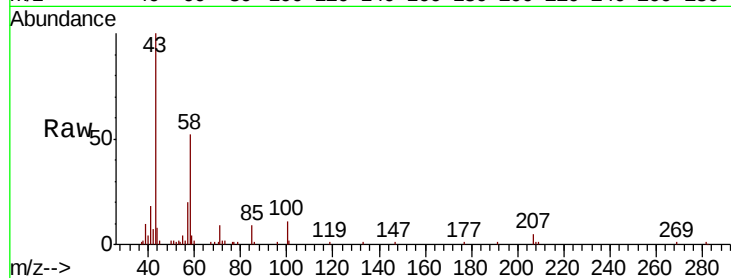




#59
2-Hexanone
Concen: 3.364 ug/l
RT: 9.48 min Scan# 1376
Delta R.T. -0.00 min
Lab File: VX016131.D
Acq: 08 May 2020 19:05

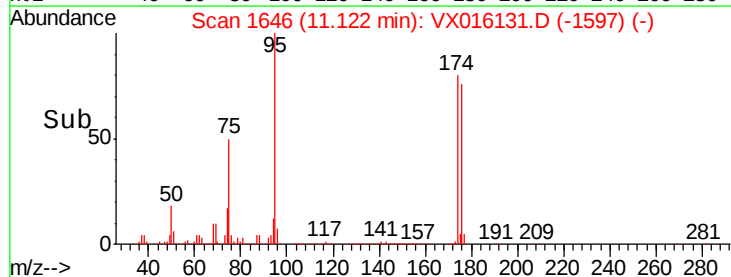
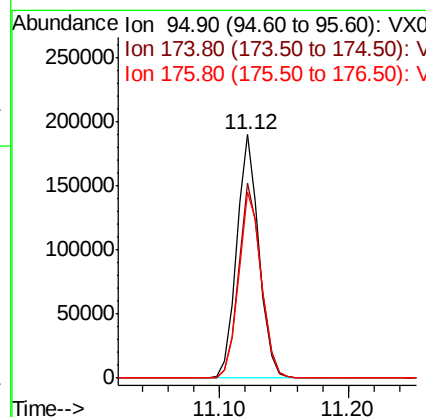
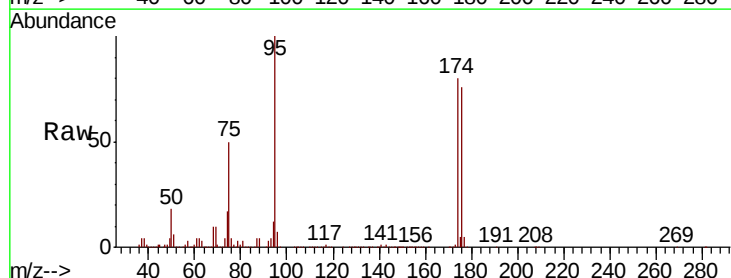
Instrument :
MSVOA_X
ClientSampleId :

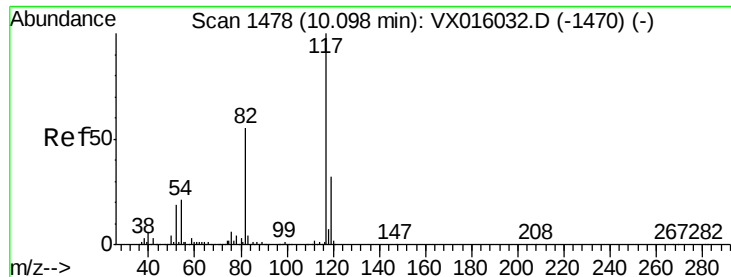
Tot Ion: 43 Resp: 13403
Ion Ratio Lower Upper
43 100
58 66.3 28.6 85.9



#62
4-Bromofluorobenzene
Concen: 53.850 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016131.D
Acq: 08 May 2020 19:05

Tgt Ion: 95 Resp: 227688
Ion Ratio Lower Upper
95 100
174 80.4 0.0 159.4
176 78.4 0.0 157.6

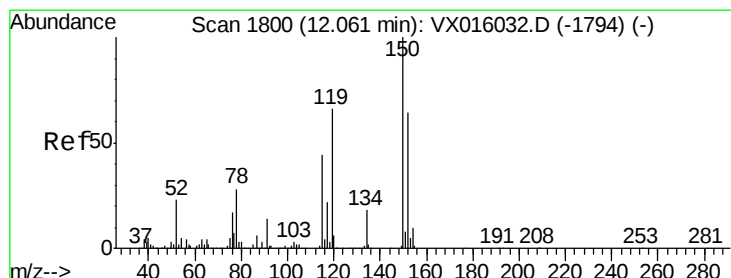
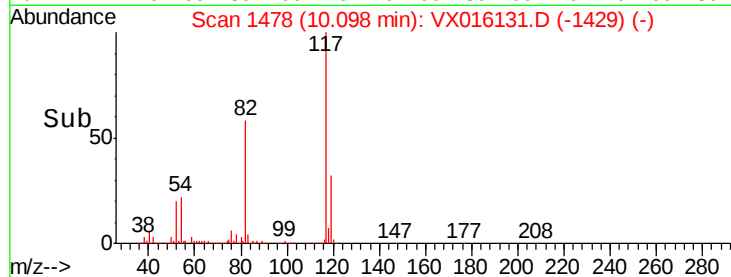
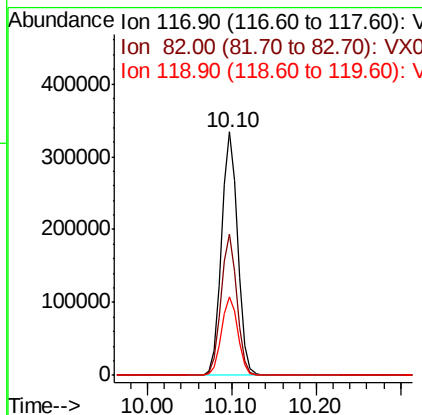
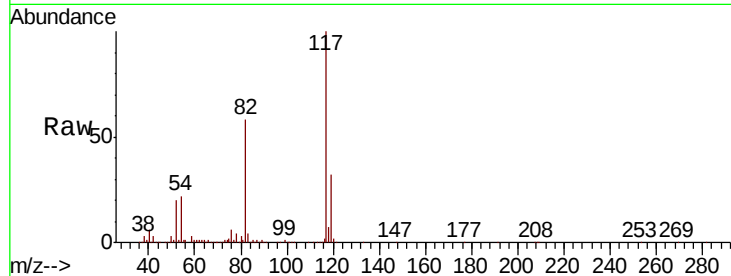




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016131.D
Acq: 08 May 2020 19:05

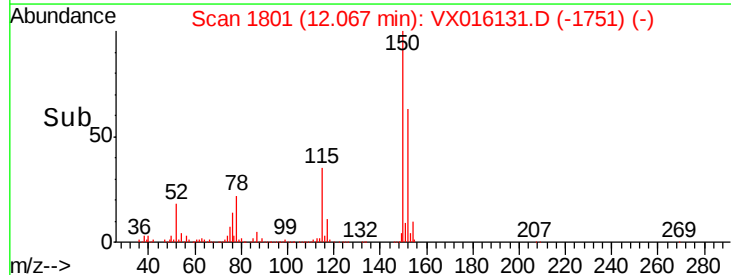
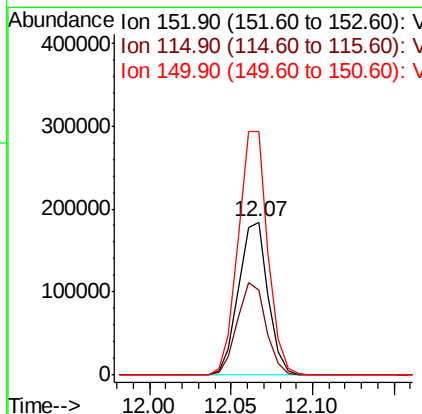
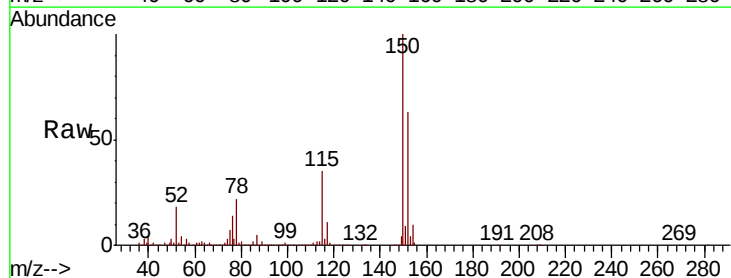
Instrument :
MSVOA_X
ClientSampleId :

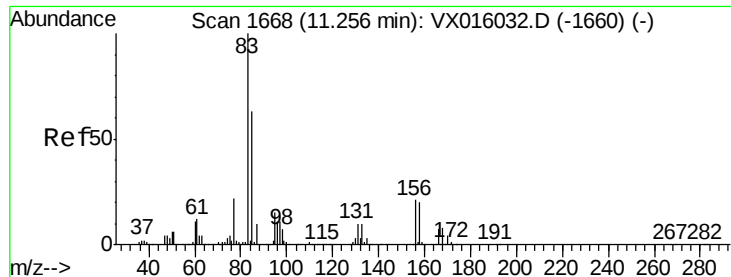
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.8	44.4	66.6
119	32.4	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1801
Delta R.T. 0.01 min
Lab File: VX016131.D
Acq: 08 May 2020 19:05

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.3	41.3	124.1
150	159.6	0.0	352.2





#75

1,1,2,2-Tetrachloroethane

Concen: 2.089 ug/l

RT: 11.27 min Scan# 1670

Delta R.T. 0.01 min

Lab File: VX016131.D

Acq: 08 May 2020 19:05

Instrument :

MSVOA_X

ClientSampleId :

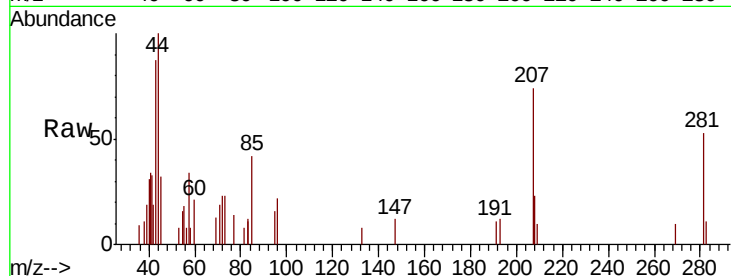
Tot Ion: 83 Resp: 125

Ion Ratio Lower Upper

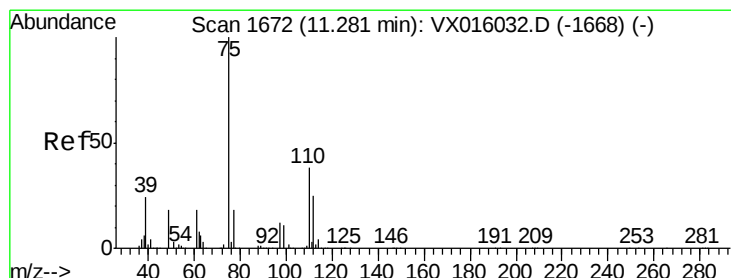
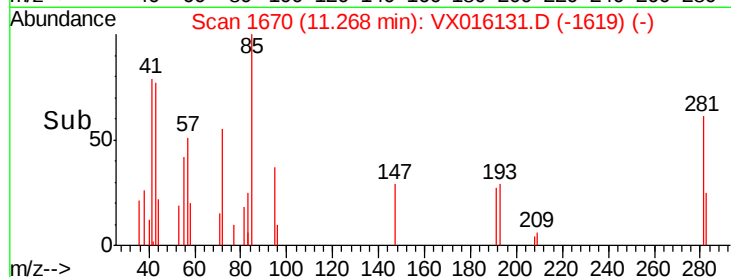
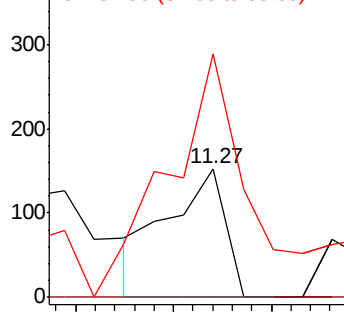
83 100

131 0.0 5.1 15.4#

85 257.6 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: 21.793 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016131.D

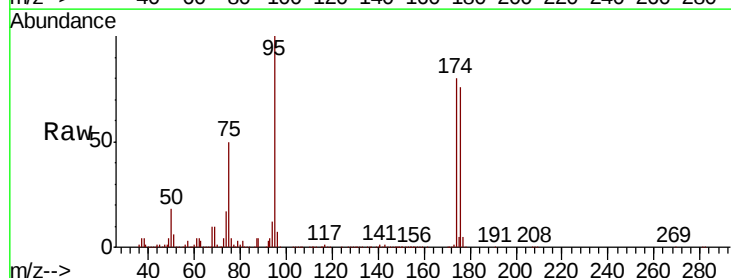
Acq: 08 May 2020 19:05

Tgt Ion: 75 Resp: 114568

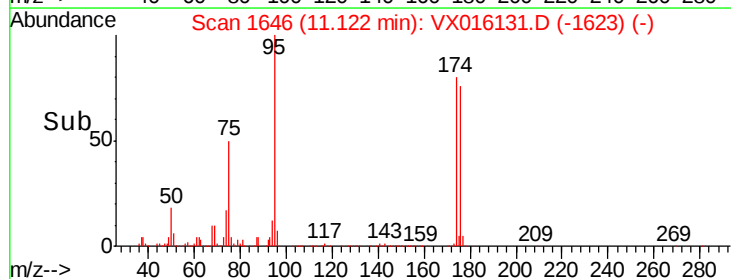
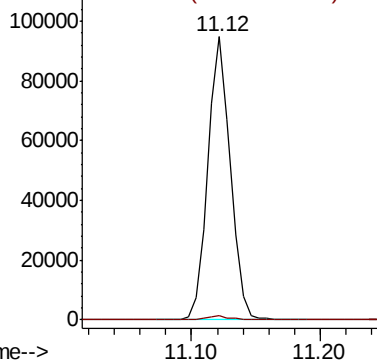
Ion Ratio Lower Upper

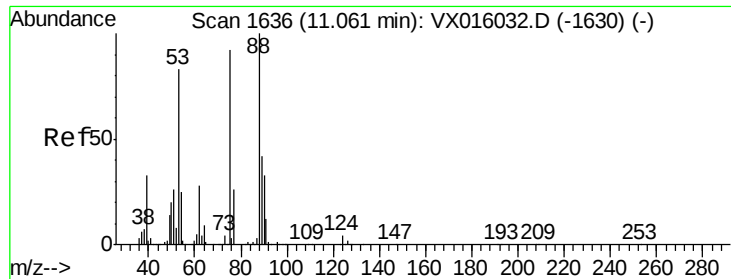
75 100

77 1.4 21.2 63.6#



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: 51.934 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016131.D

Acq: 08 May 2020 19:05

Instrument :

MSVOA_X

ClientSampleId :

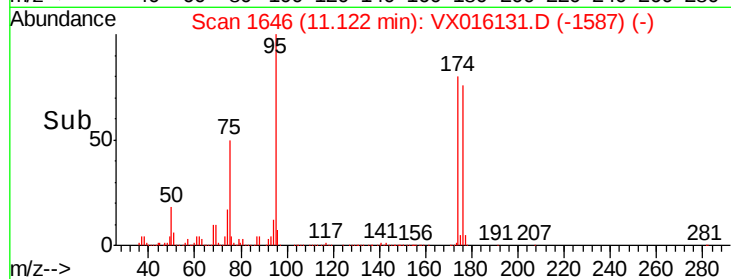
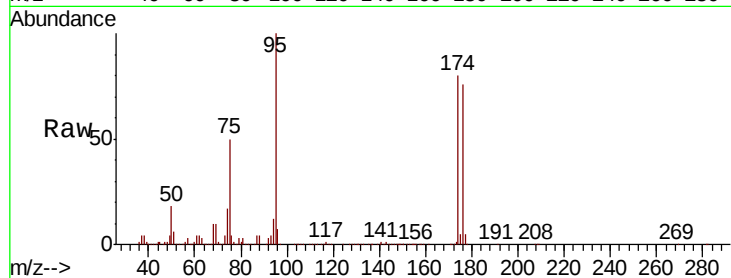
Tot Ion: 75 Resp: 114568

Ion Ratio Lower Upper

75 100

53 0.2 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

