

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060320\
 Data File : VX016566.D
 Acq On : 03 Jun 2020 15:12
 Operator : JC/SP
 Sample : L2867-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 04 08:24:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	254669	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	411289	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	419541	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	217038	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	150401	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	
35) Dibromofluoromethane	5.47	113	122657	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
50) Toluene-d8	8.70	98	510056	51.75	ug/l	0.00
Spiked Amount			Recovery	=	103.50%	
62) 4-Bromofluorobenzene	11.12	95	211107	55.43	ug/l	0.00
Spiked Amount			Recovery	=	110.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	622	0.205	ug/l #	88
4) Vinyl Chloride	1.39	62	1008	0.315	ug/l	93
10) Methyl Iodide	2.49	142	105	3.091	ug/l #	40
11) Tert butyl alcohol	3.01	59	774	0.954	ug/l #	72
13) Acrolein	2.26	56	676	1.959	ug/l #	1
16) Acetone	2.42	43	15073	10.878	ug/l	100
17) Carbon Disulfide	2.55	76	5128	0.705	ug/l	99
18) Methyl Acetate	2.75	43	789	0.222	ug/l	95
20) Methylene Chloride	2.83	84	1305	0.455	ug/l	96
24) 1,1-Dichloroethane	3.67	63	1519	0.311	ug/l #	94
25) 2-Butanone	4.64	43	4022	1.713	ug/l	96
27) cis-1,2-Dichloroethene	4.57	96	7220	2.303	ug/l	84
36) 1,1-Dichloropropene	5.64	75	17346	4.454	ug/l #	52
37) Ethyl Acetate	4.79	43	4424	0.946	ug/l #	76
38) Carbon Tetrachloride	5.63	117	24672	6.029	ug/l #	16
42) 1,2-Dichloroethane	6.16	62	861	0.209	ug/l	86
44) Trichloroethene	7.19	130	8989	2.443	ug/l	97
52) Toluene	8.76	92	1929	0.264	ug/l	99
55) 1,1,2-Trichloroethane	9.06	97	853	0.293	ug/l #	14
59) 2-Hexanone	9.48	43	1241	0.351	ug/l	97
74) N-amyl acetate	10.92	43	4231	0.612	ug/l #	28
76) 1,2,3-Trichloropropane	11.12	75	103498	21.695	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	103498	53.366	ug/l #	14

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016566.D

Acq: 03 Jun 2020 15:12

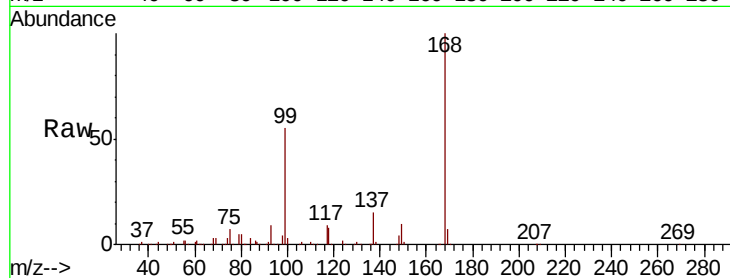
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 254669

Ion Ratio Lower Upper

168 100

99 54.7 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

80000

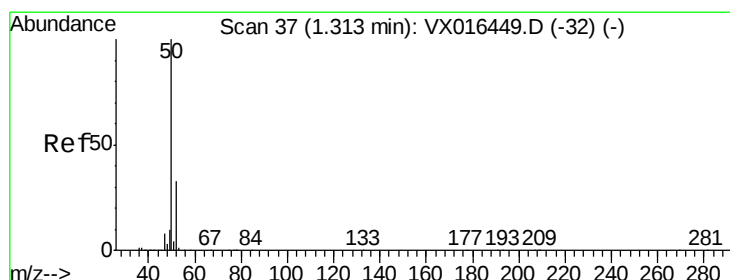
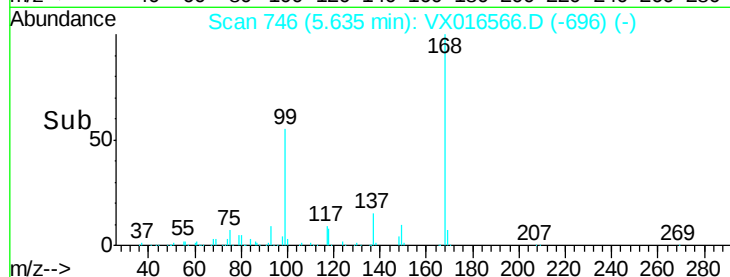
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.205 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016566.D

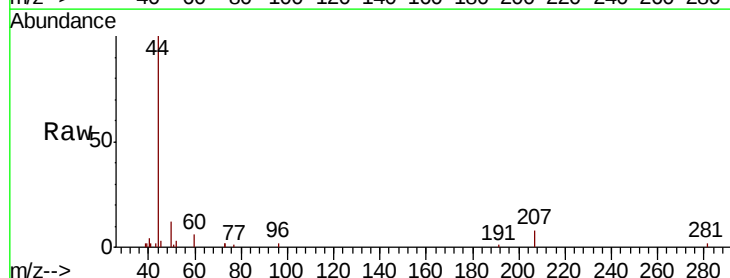
Acq: 03 Jun 2020 15:12

Tgt Ion: 50 Resp: 622

Ion Ratio Lower Upper

50 100

52 26.0 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

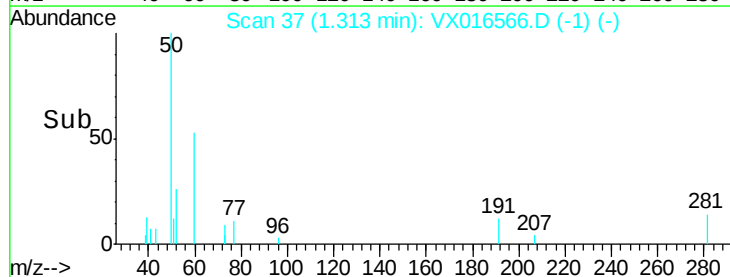
600

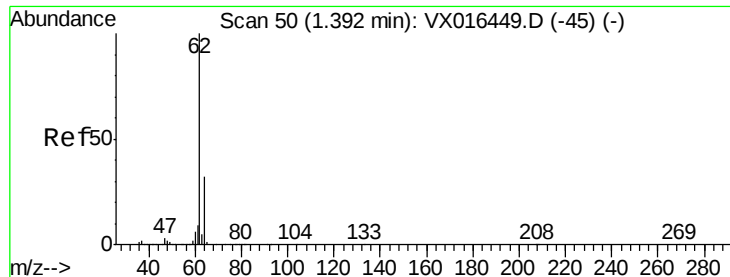
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 0.315 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016566.D

Acq: 03 Jun 2020 15:12

Instrument :

MSVOA_X

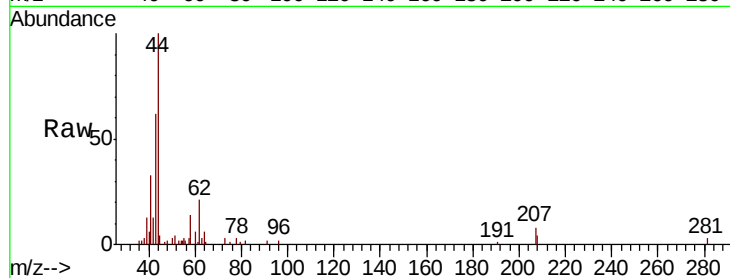
ClientSampled :

Tot Ion: 62 Resp: 1008

Ion Ratio Lower Upper

62 100

64 28.4 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

1000

800

600

400

200

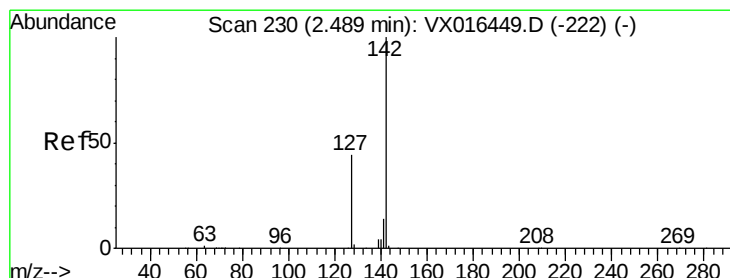
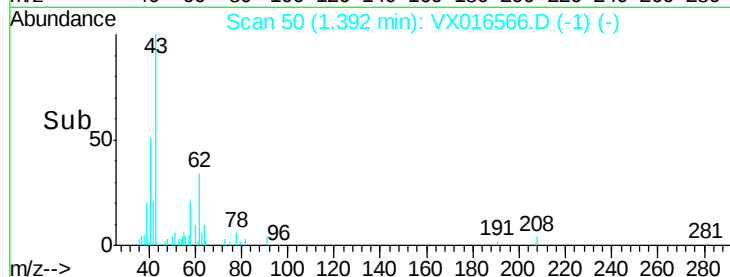
0

Time-->

1.35

1.40

1.45



#10

Methyl Iodide

Concen: 3.091 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX016566.D

Acq: 03 Jun 2020 15:12

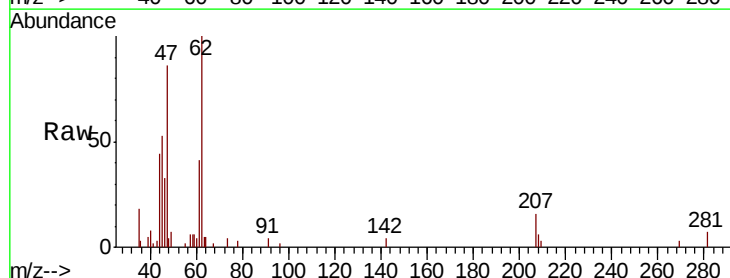
Tgt Ion: 142 Resp: 105

Ion Ratio Lower Upper

142 100

127 0.0 35.3 52.9#

141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

100

80

60

40

20

0

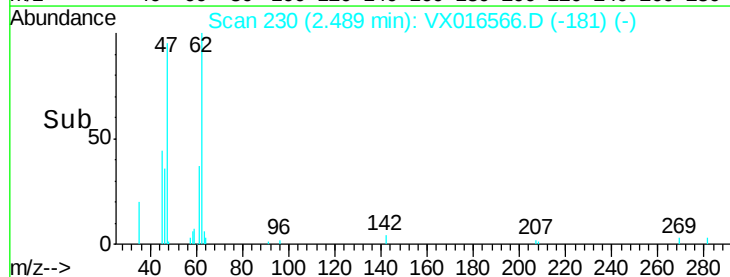
Time-->

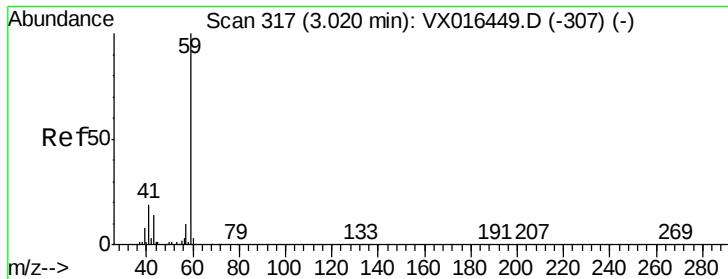
2.46

2.48

2.50

2.52

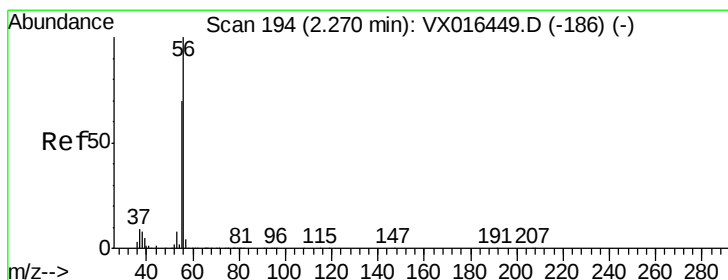
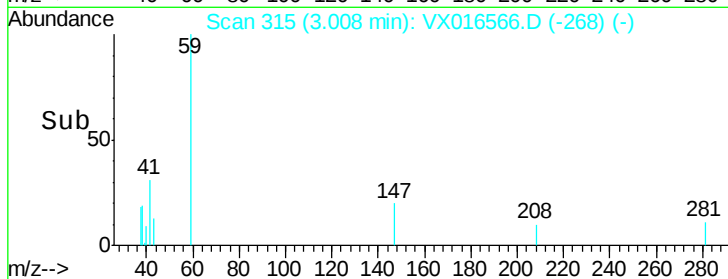
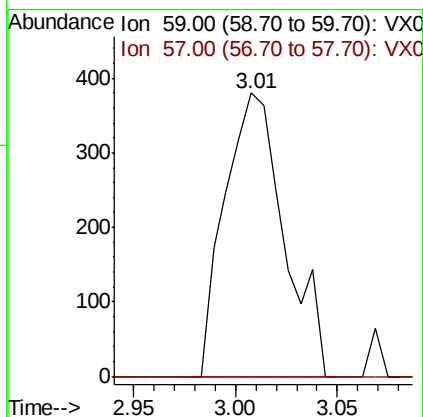
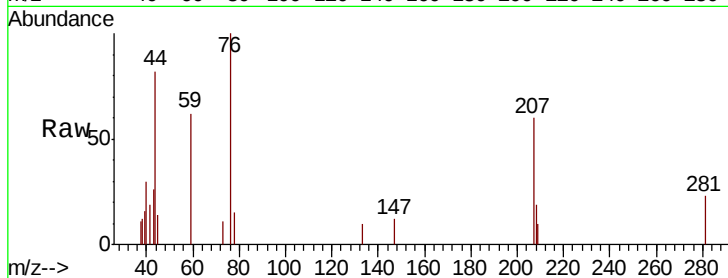




#11
Tert butyl alcohol
Concen: 0.954 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX016566.D
Acq: 03 Jun 2020 15:12

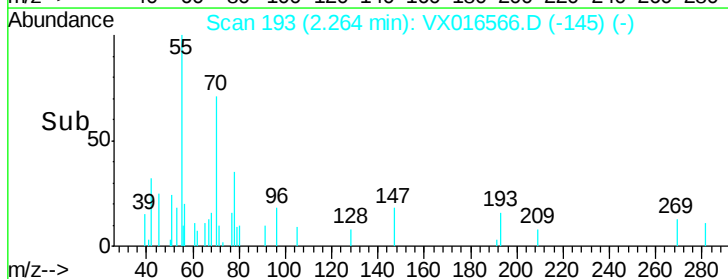
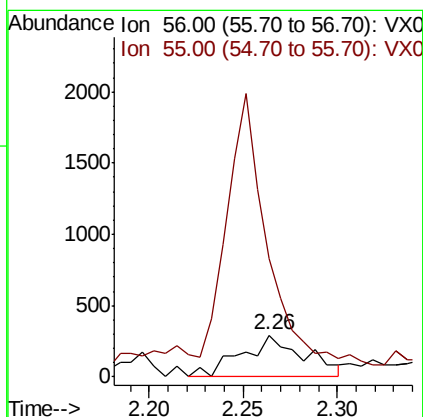
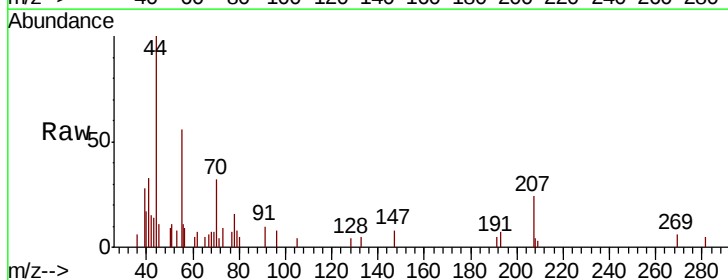
Instrument :
MSVOA_X
ClientSampleId :

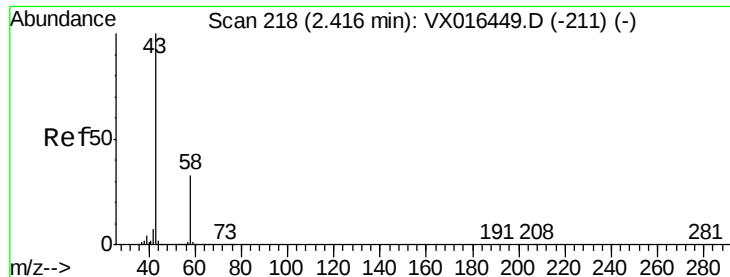
Tot Ion: 59 Resp: 774
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 1.959 ug/l
RT: 2.26 min Scan# 193
Delta R.T. -0.01 min
Lab File: VX016566.D
Acq: 03 Jun 2020 15:12

Tgt Ion: 56 Resp: 676
Ion Ratio Lower Upper
56 100
55 448.2 58.3 87.5#





#16

Acetone

Concen: 10.878 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX016566.D

Acq: 03 Jun 2020 15:12

Instrument :

MSVOA_X

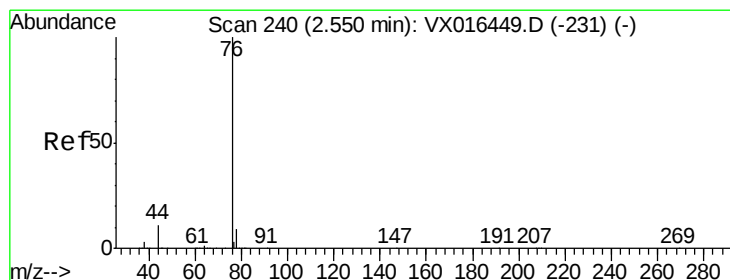
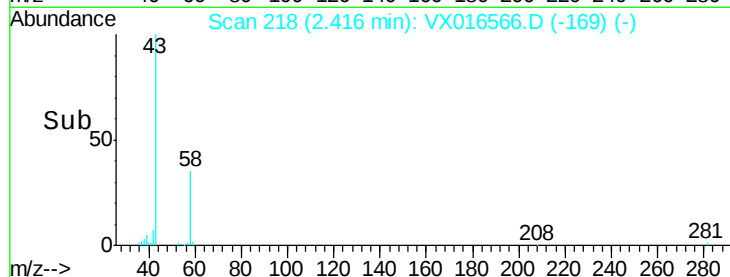
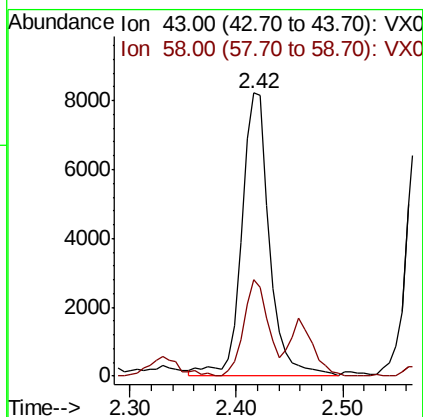
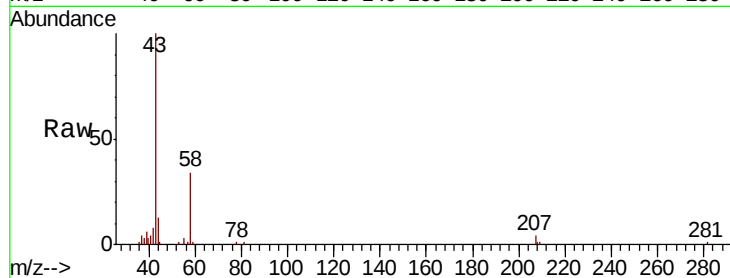
ClientSampleId :

Tot Ion: 43 Resp: 15073

Ion Ratio Lower Upper

43 100

58 32.8 26.1 39.1



#17

Carbon Disulfide

Concen: 0.705 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX016566.D

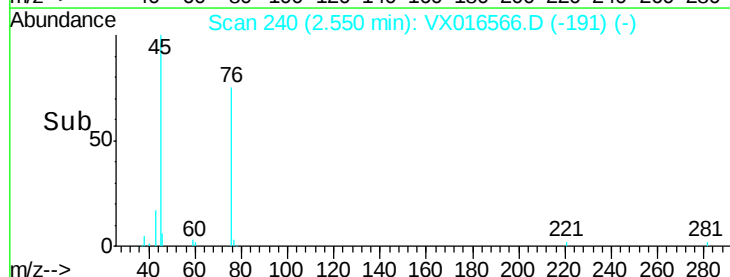
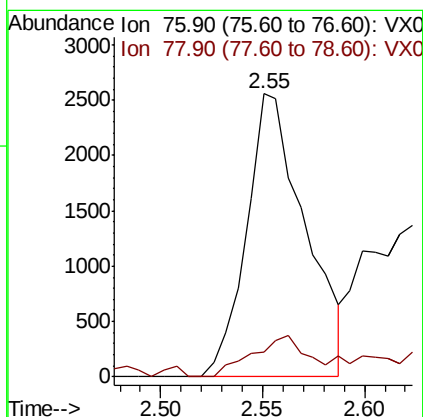
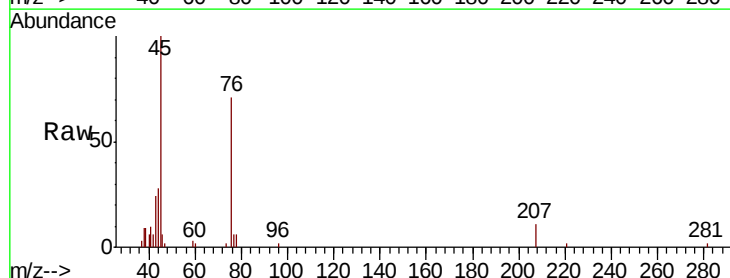
Acq: 03 Jun 2020 15:12

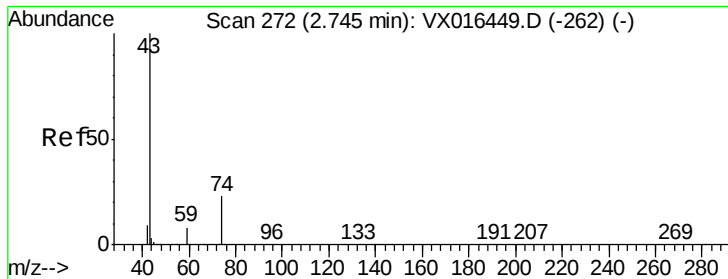
Tgt Ion: 76 Resp: 5128

Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.0

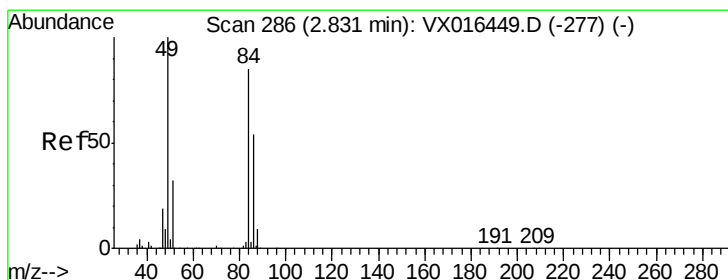
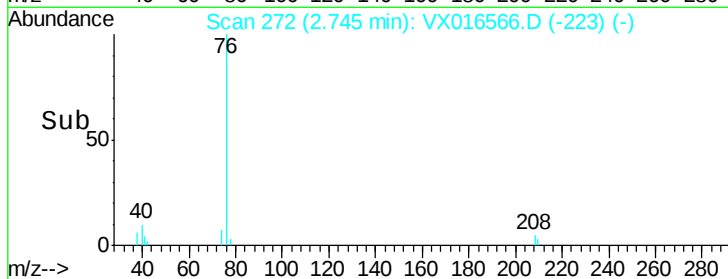
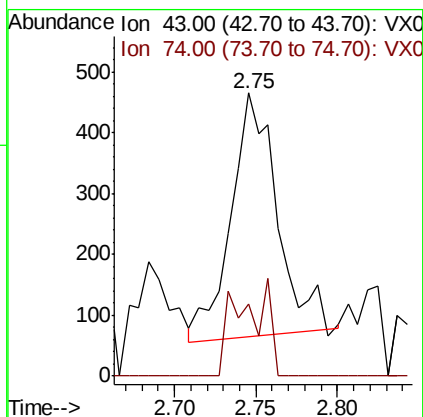
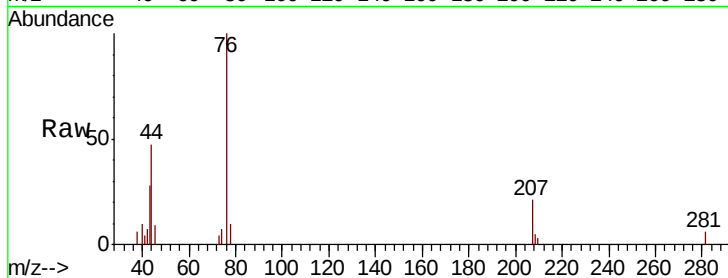




#18
Methyl Acetate
Concen: 0.222 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.00 min
Lab File: VX016566.D
Acq: 03 Jun 2020 15:12

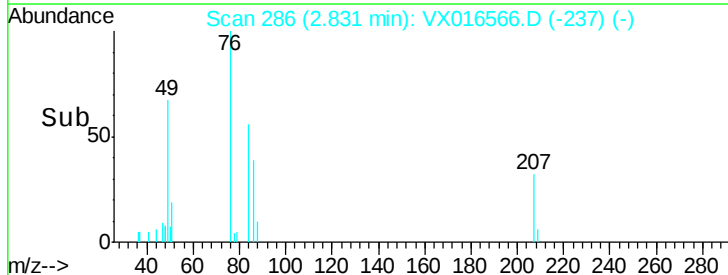
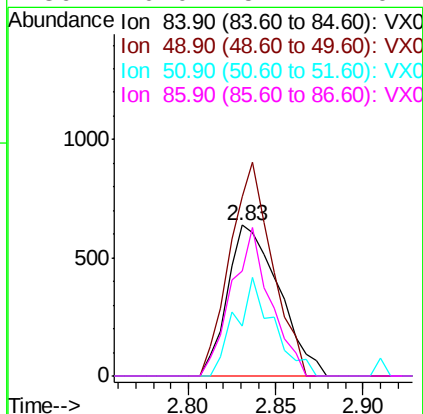
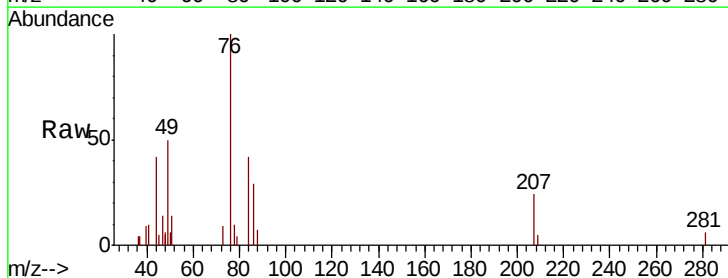
Instrument :
MSVOA_X
ClientSampled :

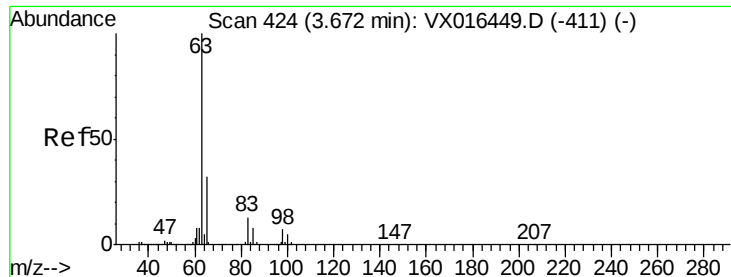
Tot Ion: 43 Resp: 789
Ion Ratio Lower Upper
43 100
74 26.9 19.7 29.5



#20
Methylene Chloride
Concen: 0.455 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX016566.D
Acq: 03 Jun 2020 15:12

Tgt Ion: 84 Resp: 1305
Ion Ratio Lower Upper
84 100
49 118.8 94.5 141.7
51 33.1 30.2 45.4
86 70.0 51.1 76.7





#24

1,1-Dichloroethane

Concen: 0.311 ug/l

RT: 3.67 min Scan# 423

Delta R.T. -0.01 min

Lab File: VX016566.D

Acq: 03 Jun 2020 15:12

Instrument :

MSVOA_X

ClientSampleId :

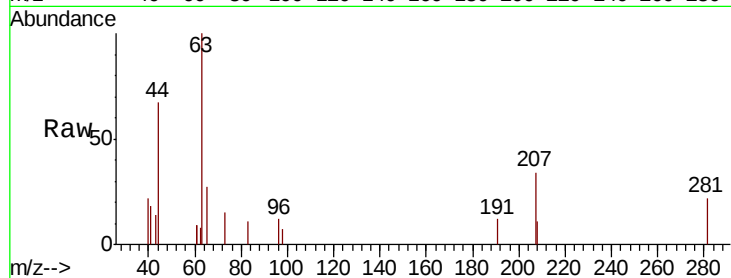
Tot Ion: 63 Resp: 1519

Ion Ratio Lower Upper

63 100

98 7.3 3.6 10.9

100 0.0 2.4 7.1#



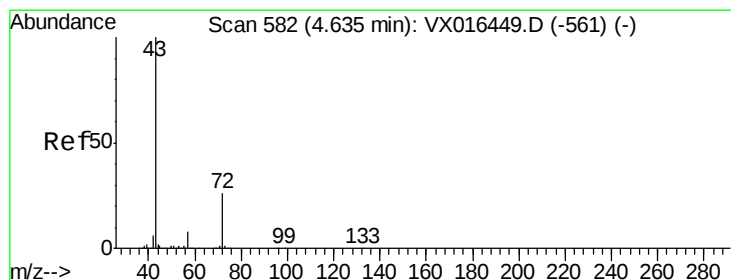
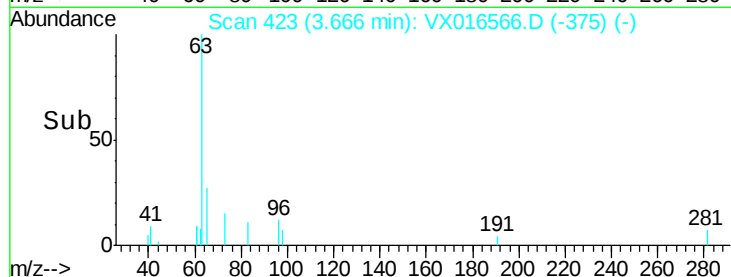
Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

3.67

Time-->



#25

2-Butanone

Concen: 1.713 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016566.D

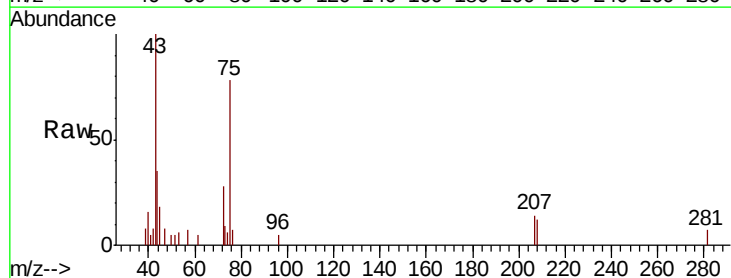
Acq: 03 Jun 2020 15:12

Tgt Ion: 43 Resp: 4022

Ion Ratio Lower Upper

43 100

72 28.4 21.0 31.6

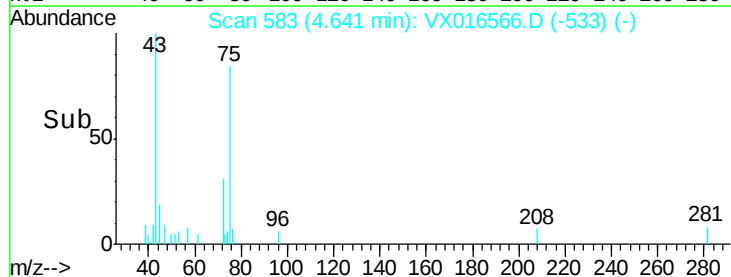


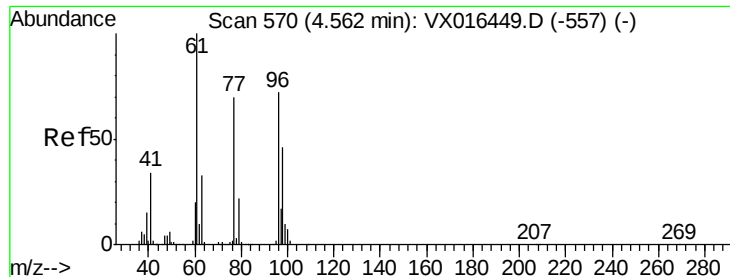
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.64

Time-->



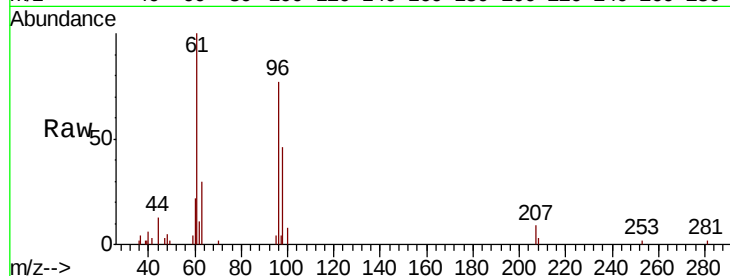


#27

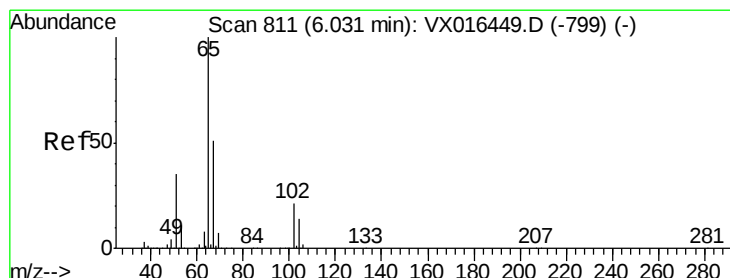
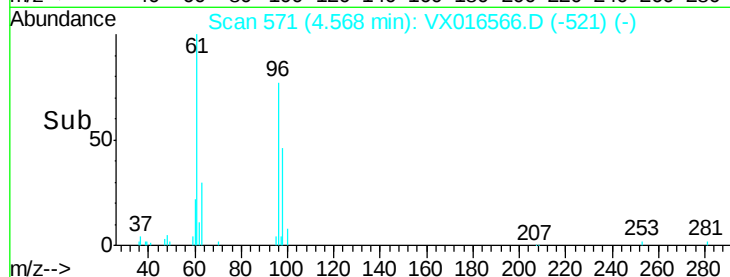
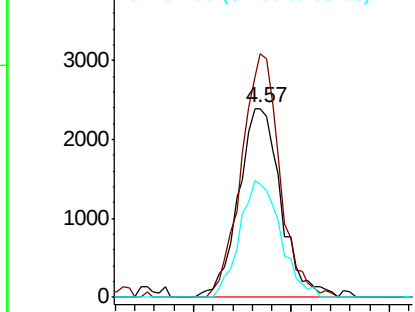
cis-1,2-Dichloroethene
Concen: 2.303 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX016566.D
Acq: 03 Jun 2020 15:12

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 96 Resp: 7220
Ion Ratio Lower Upper
96 100
61 116.3 0.0 284.6
98 59.2 0.0 127.2



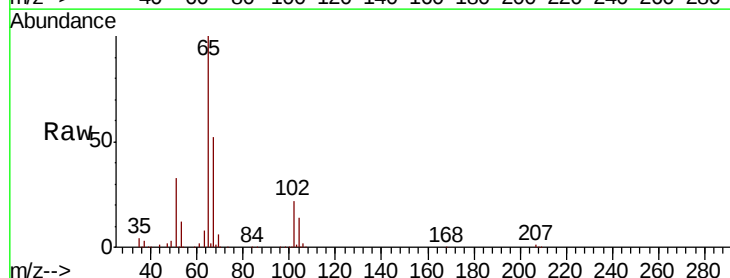
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



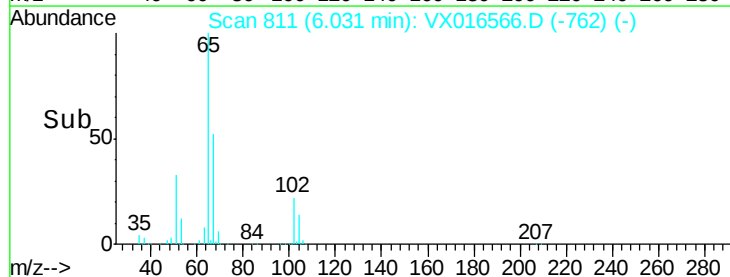
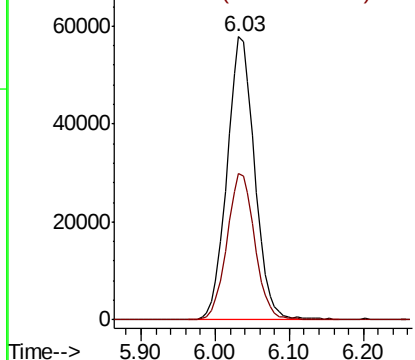
#33

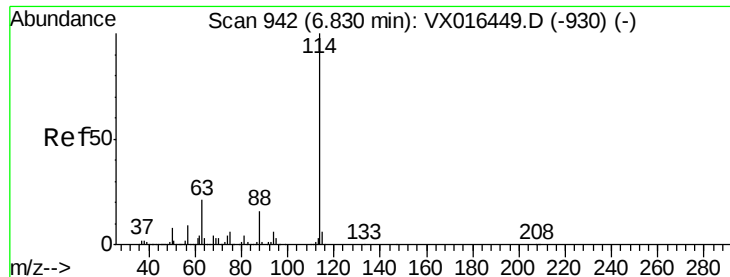
1,2-Dichloroethane-d4
Concen: 47.555 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX016566.D
Acq: 03 Jun 2020 15:12

Tgt Ion: 65 Resp: 150401
Ion Ratio Lower Upper
65 100
67 51.9 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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016566.D

Acq: 03 Jun 2020 15:12

Instrument :

MSVOA_X

ClientSampleId :

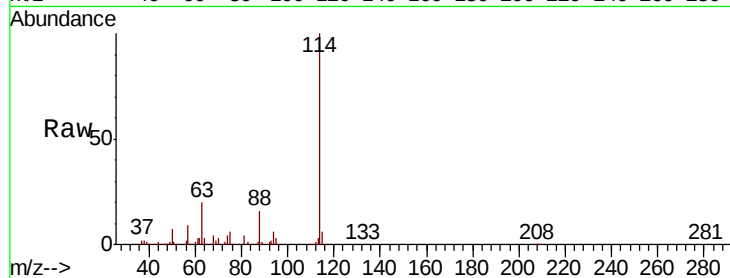
Tot Ion:114 Resp: 411289

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

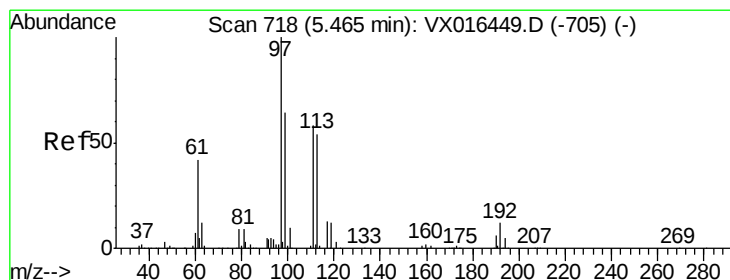
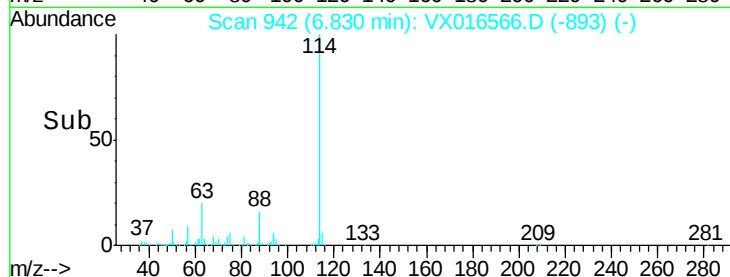
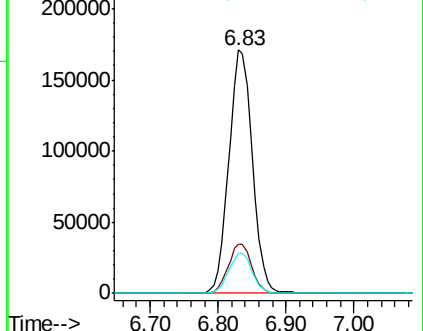
88 16.3 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.433 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016566.D

Acq: 03 Jun 2020 15:12

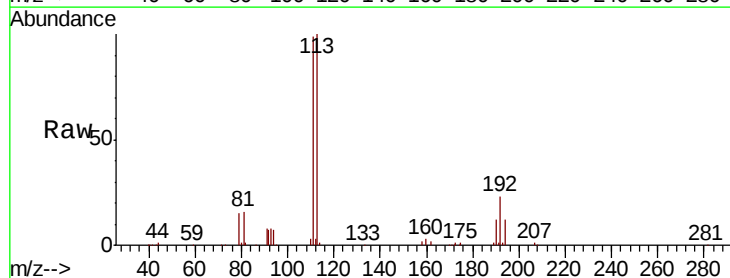
Tgt Ion:113 Resp: 122657

Ion Ratio Lower Upper

113 100

111 102.0 83.0 124.6

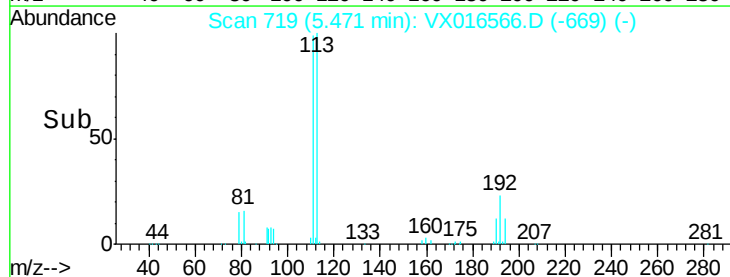
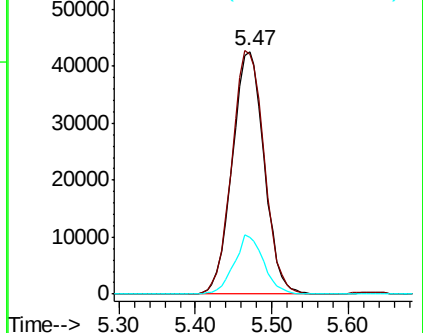
192 22.5 17.7 26.5

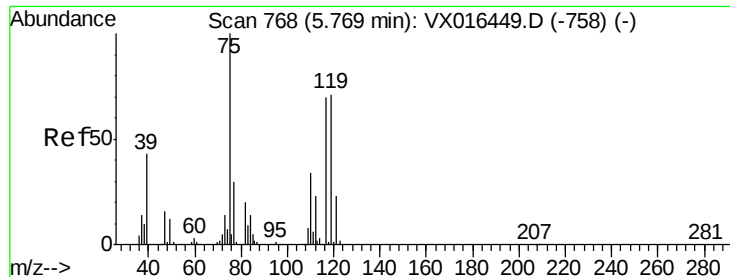


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

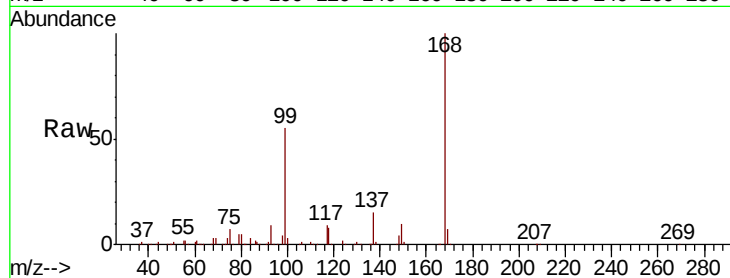




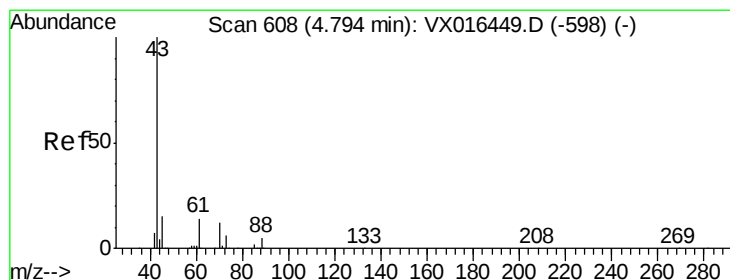
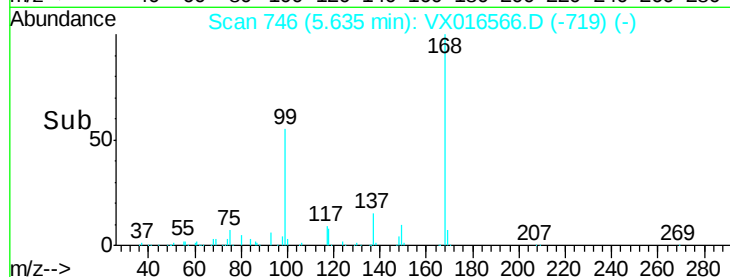
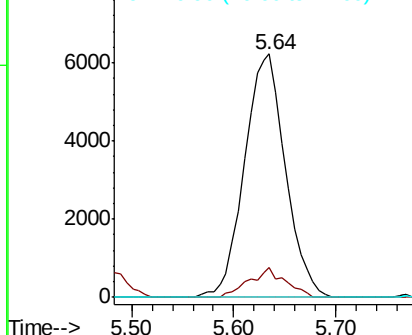
#36
 1,1-Dichloropropene
 Concen: 4.454 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX016566.D
 Acq: 03 Jun 2020 15:12

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	10.8	17.4	52.3#
77	0.0	24.2	36.4#

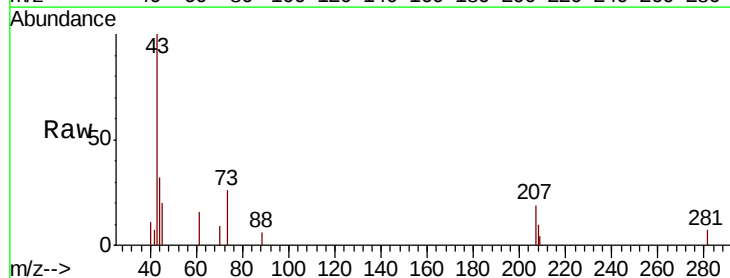


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

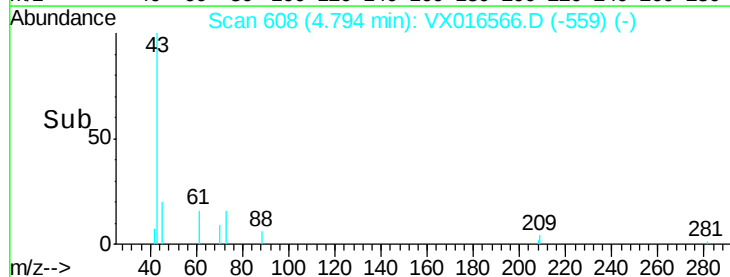
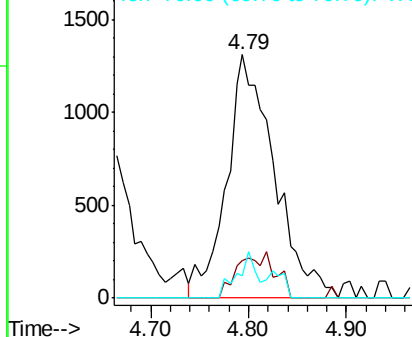


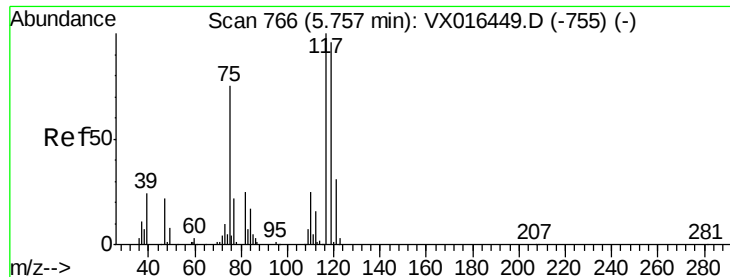
#37
 Ethyl Acetate
 Concen: 0.946 ug/l
 RT: 4.79 min Scan# 608
 Delta R.T. -0.00 min
 Lab File: VX016566.D
 Acq: 03 Jun 2020 15:12

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.3	16.9#
70	7.6	9.3	13.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 6.029 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016566.D

Acq: 03 Jun 2020 15:12

Instrument :

MSVOA_X

ClientSampled :

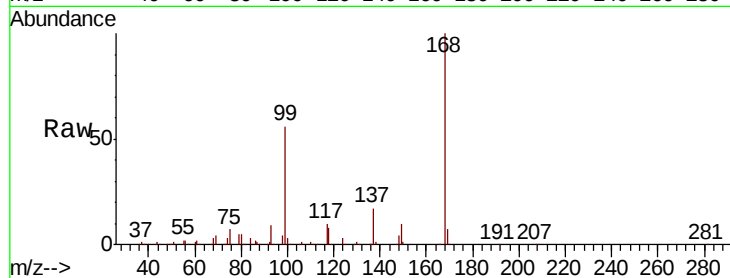
Tot Ion:117 Resp: 24672

Ion Ratio Lower Upper

117 100

119 5.0 76.3 114.5#

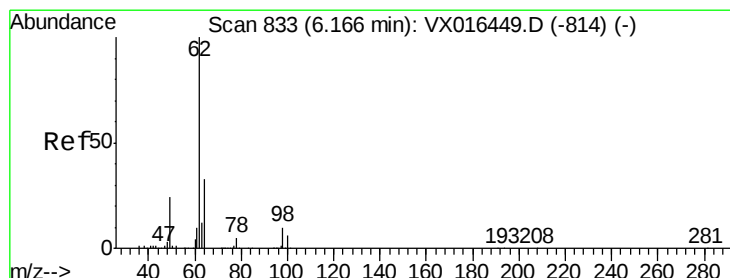
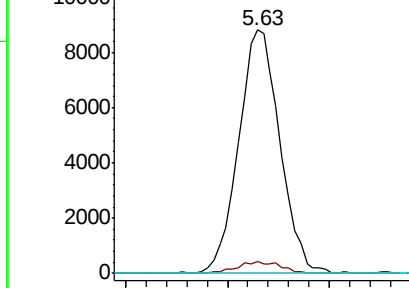
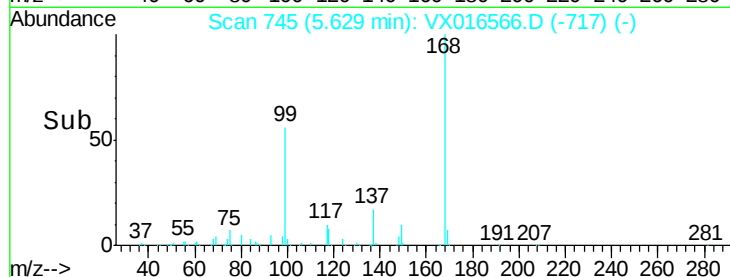
121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#42

1,2-Dichloroethane

Concen: 0.209 ug/l

RT: 6.16 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX016566.D

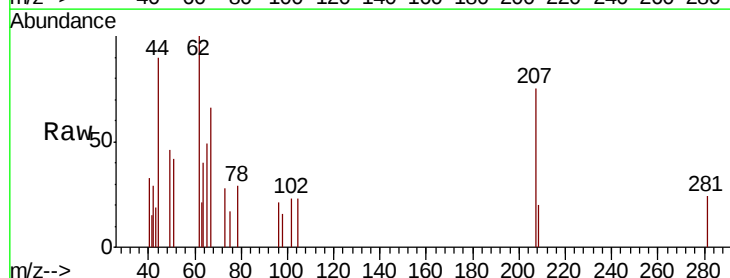
Acq: 03 Jun 2020 15:12

Tgt Ion: 62 Resp: 861

Ion Ratio Lower Upper

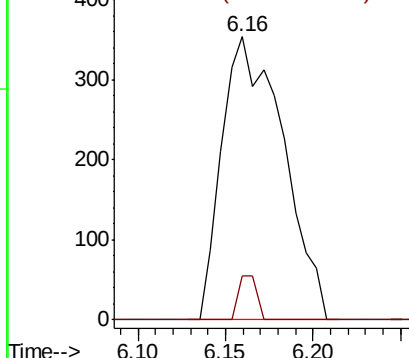
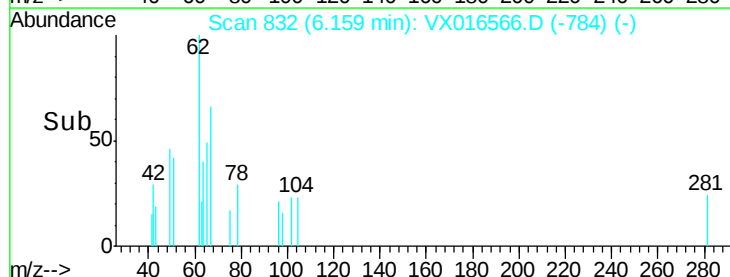
62 100

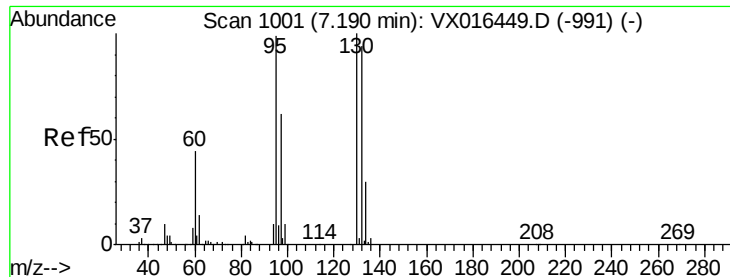
98 4.6 0.0 19.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

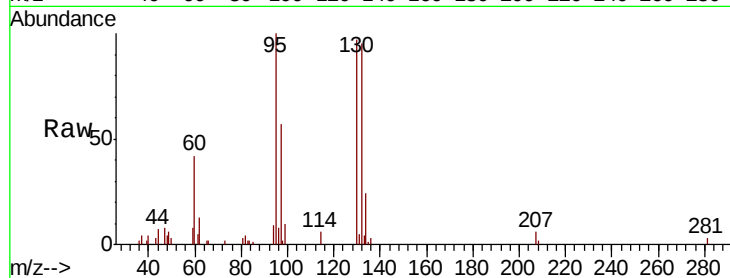




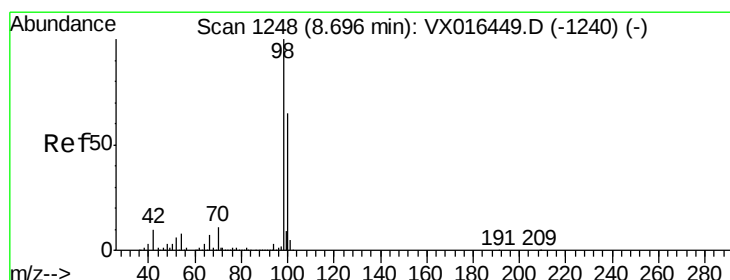
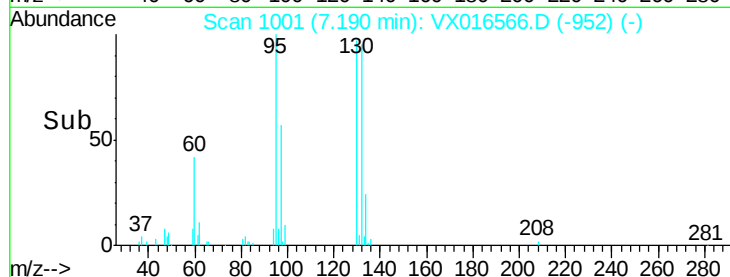
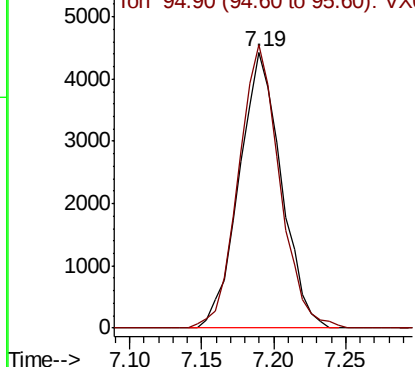
#44
 Trichloroethene
 Concen: 2.443 ug/l
 RT: 7.19 min Scan# 1001
 Delta R.T. -0.00 min
 Lab File: VX016566.D
 Acq: 03 Jun 2020 15:12

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:130 Resp: 8989
 Ion Ratio Lower Upper
 130 100
 95 102.6 0.0 198.2

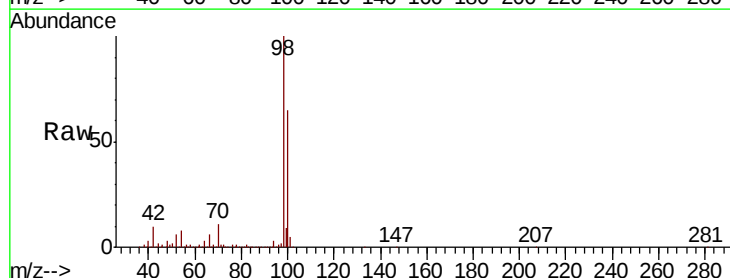


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

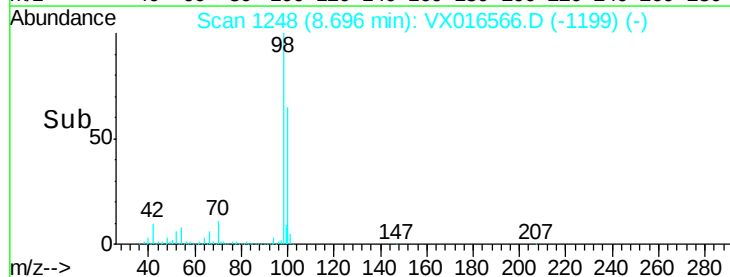
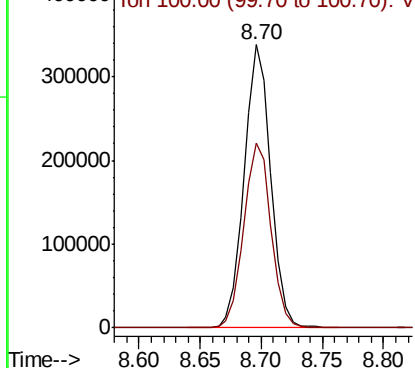


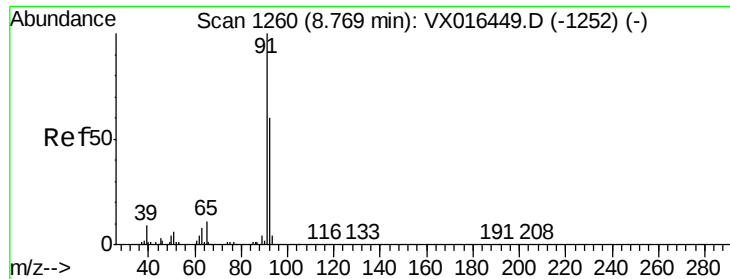
#50
 Toluene-d8
 Concen: 51.746 ug/l
 RT: 8.70 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VX016566.D
 Acq: 03 Jun 2020 15:12

Tgt Ion: 98 Resp: 510056
 Ion Ratio Lower Upper
 98 100
 100 67.1 53.8 80.6



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





#52

Toluene

Concen: 0.264 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VX016566.D

Acq: 03 Jun 2020 15:12

Instrument :

MSVOA_X

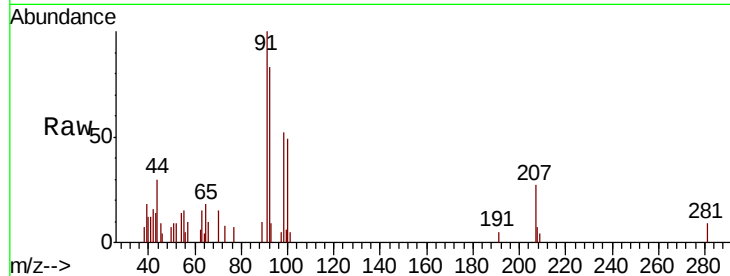
ClientSampleId :

Tot Ion: 92 Resp: 1929

Ion Ratio Lower Upper

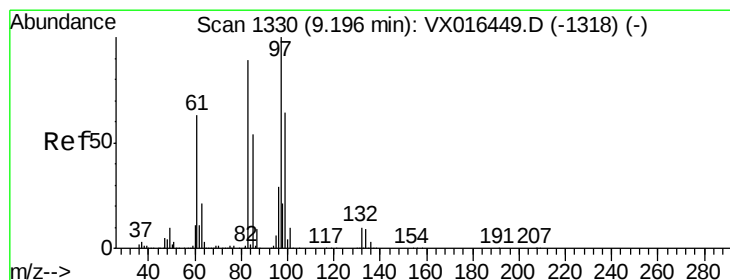
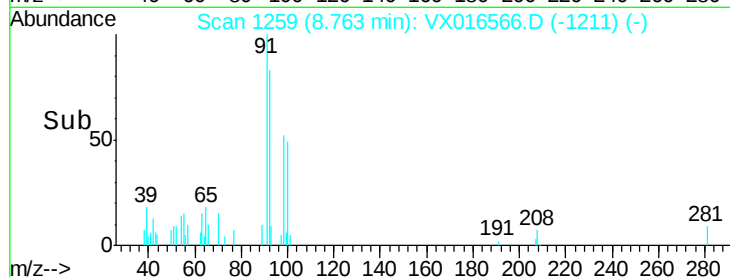
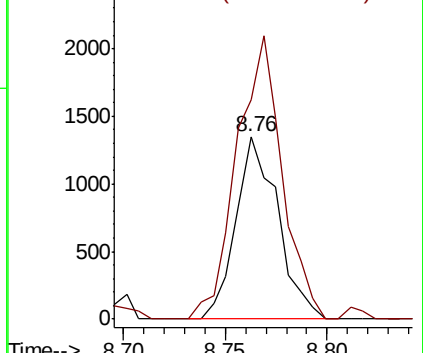
92 100

91 167.6 135.0 202.4



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#55

1,1,2-Trichloroethane

Concen: 0.293 ug/l

RT: 9.06 min Scan# 1308

Delta R.T. -0.13 min

Lab File: VX016566.D

Acq: 03 Jun 2020 15:12

Tgt Ion: 97 Resp: 853

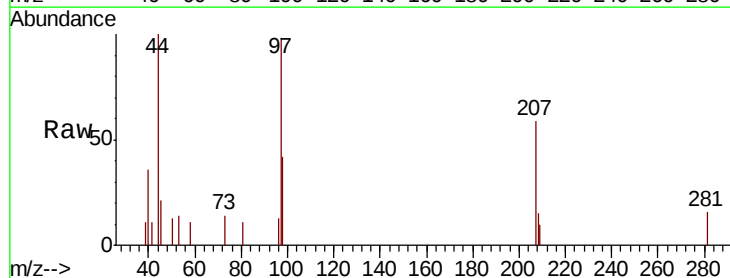
Ion Ratio Lower Upper

97 100

83 0.0 70.9 106.3#

85 0.0 43.4 65.2#

99 0.0 51.0 76.6#

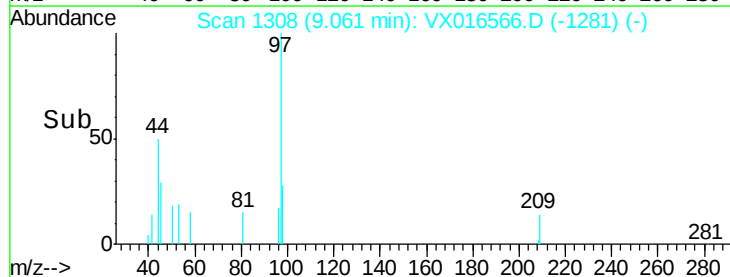
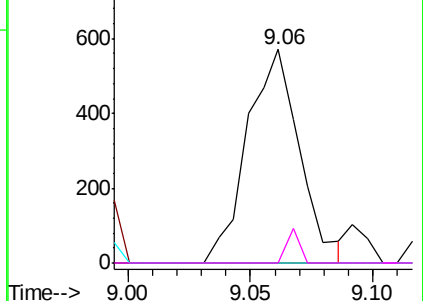


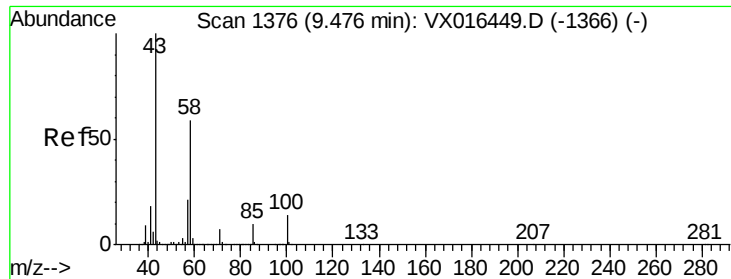
Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

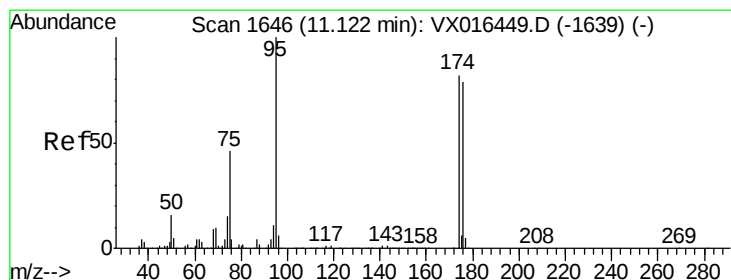
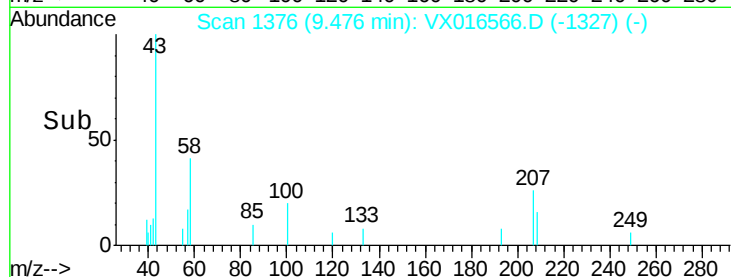
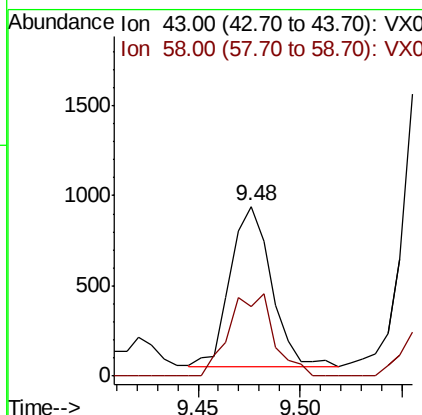
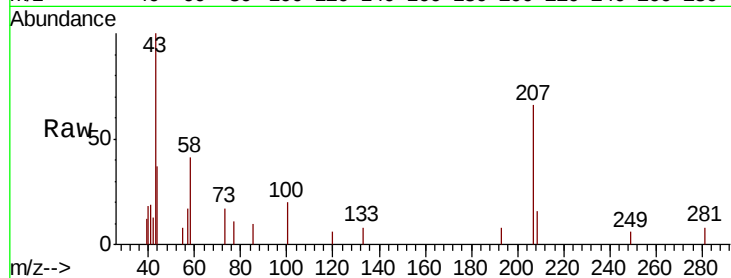




#59
2-Hexanone
Concen: 0.351 ug/l
RT: 9.48 min Scan# 1376
Delta R.T. -0.00 min
Lab File: VX016566.D
Acq: 03 Jun 2020 15:12

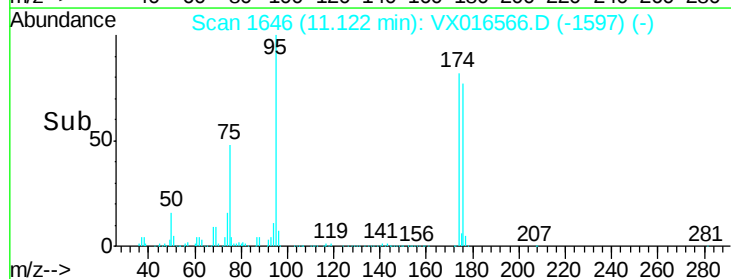
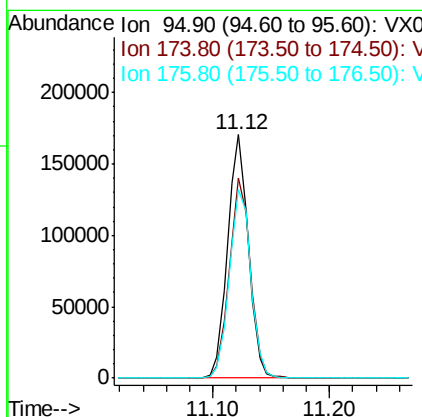
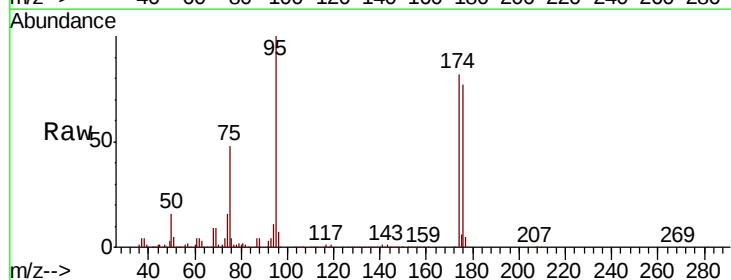
Instrument :
MSVOA_X
ClientSampleId :

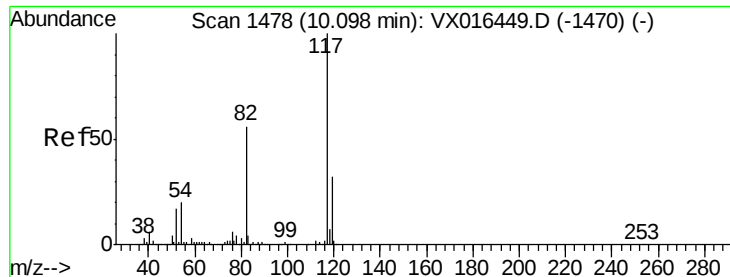
Tot Ion: 43 Resp: 1241
Ion Ratio Lower Upper
43 100
58 55.7 28.8 86.4



#62
4-Bromofluorobenzene
Concen: 55.427 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016566.D
Acq: 03 Jun 2020 15:12

Tgt Ion: 95 Resp: 211107
Ion Ratio Lower Upper
95 100
174 83.6 0.0 163.0
176 80.2 0.0 156.8

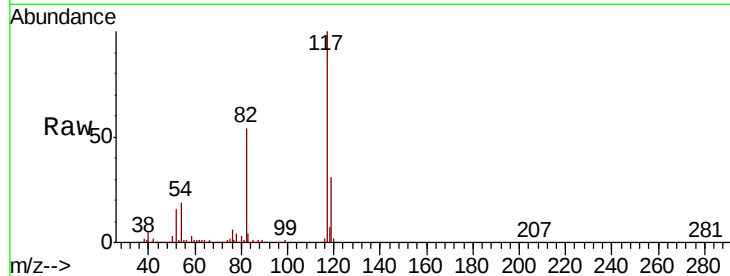




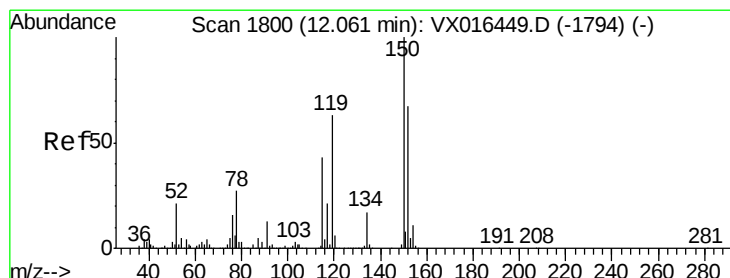
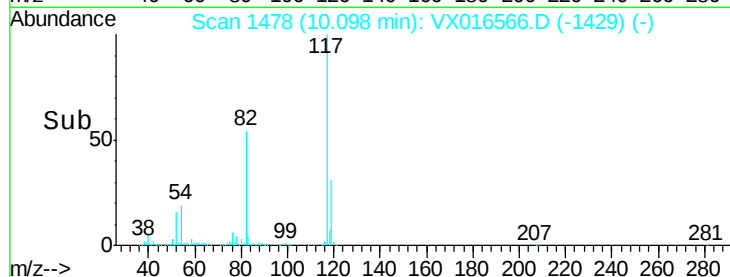
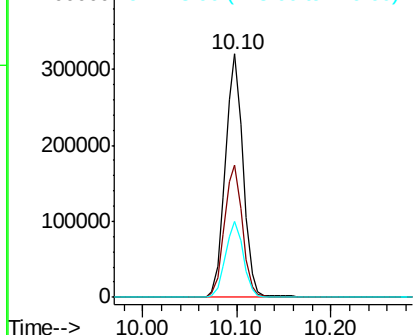
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016566.D
Acq: 03 Jun 2020 15:12

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 419541
Ion Ratio Lower Upper
117 100
82 54.4 45.0 67.6
119 31.1 25.8 38.8

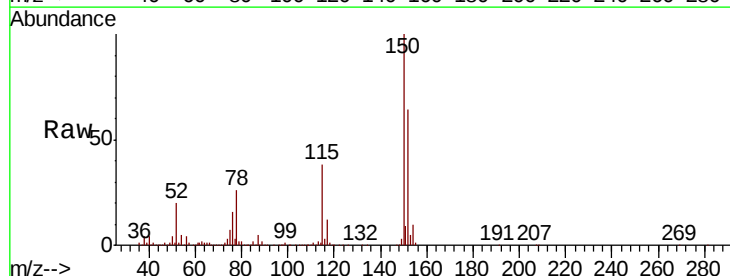


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

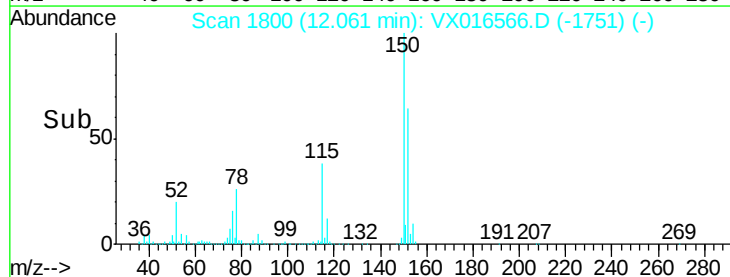
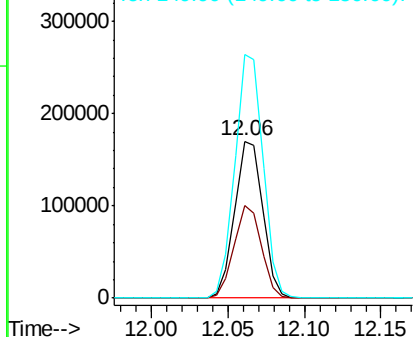


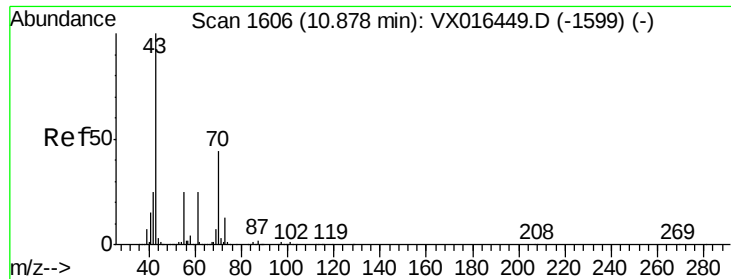
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016566.D
Acq: 03 Jun 2020 15:12

Tgt Ion:152 Resp: 217038
Ion Ratio Lower Upper
152 100
115 58.0 39.9 119.6
150 155.7 0.0 341.0



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





#74

N-amvl acetate

Concen: 0.612 ug/l

RT: 10.92 min Scan# 1613

Delta R.T. 0.04 min

Lab File: VX016566.D

Acq: 03 Jun 2020 15:12

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 43 Resp: 4231

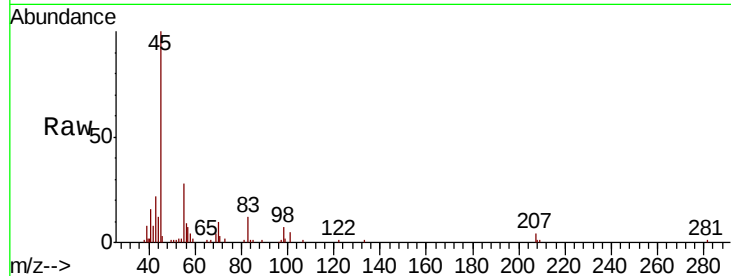
Ion Ratio Lower Upper

43 100

70 56.6 36.1 54.1#

55 122.3 20.2 30.4#

61 0.0 20.3 30.5#

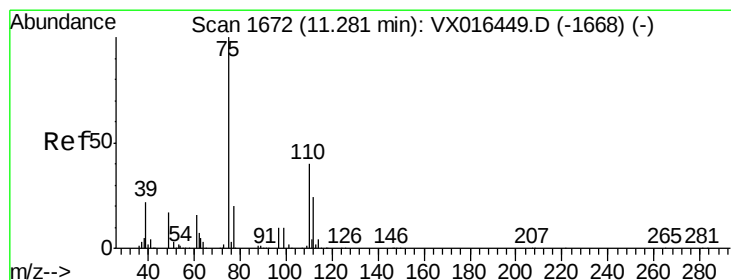
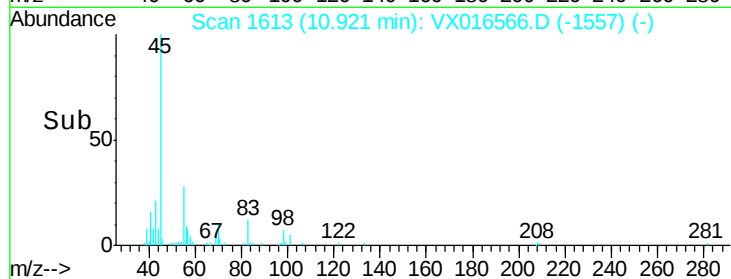
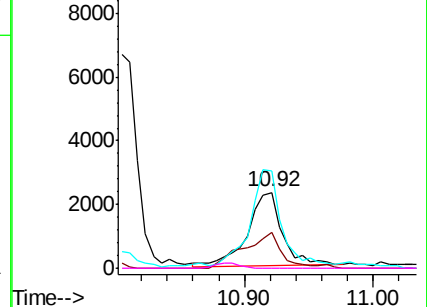


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 21.695 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016566.D

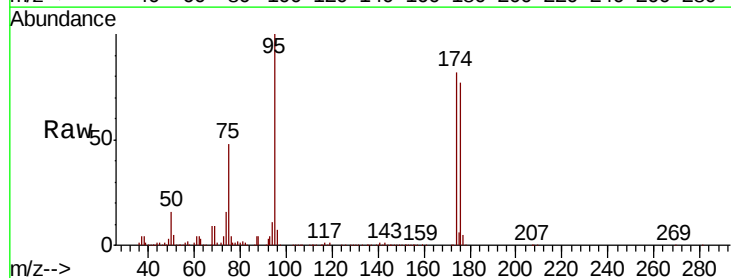
Acq: 03 Jun 2020 15:12

Tgt Ion: 75 Resp: 103498

Ion Ratio Lower Upper

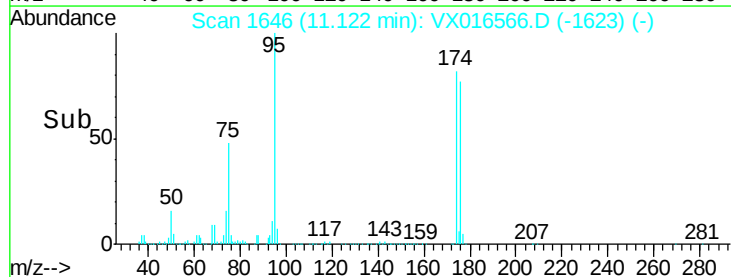
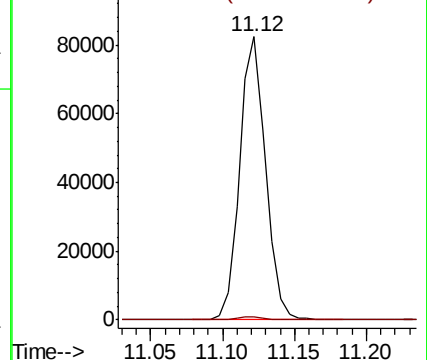
75 100

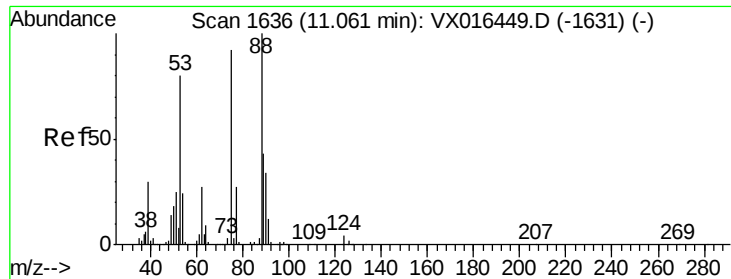
77 1.3 21.3 63.7#



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: 53.366 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016566.D
 Acq: 03 Jun 2020 15:12

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 103498
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.3 106.9#
 89 0.0 36.6 55.0#

