

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050820\
 Data File : VX016117.D
 Acq On : 08 May 2020 13:47
 Operator : JC/SP
 Sample : L2511-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 09 01:41:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 30 12:42:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	50537	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	279661	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	252711	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	111975	28.83	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.10%
60) 4-Bromofluorobenzene	11.12	95	120590	28.46	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.87%
63) Toluene-d8	8.70	98	335839	30.98	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.27%

Target Compounds

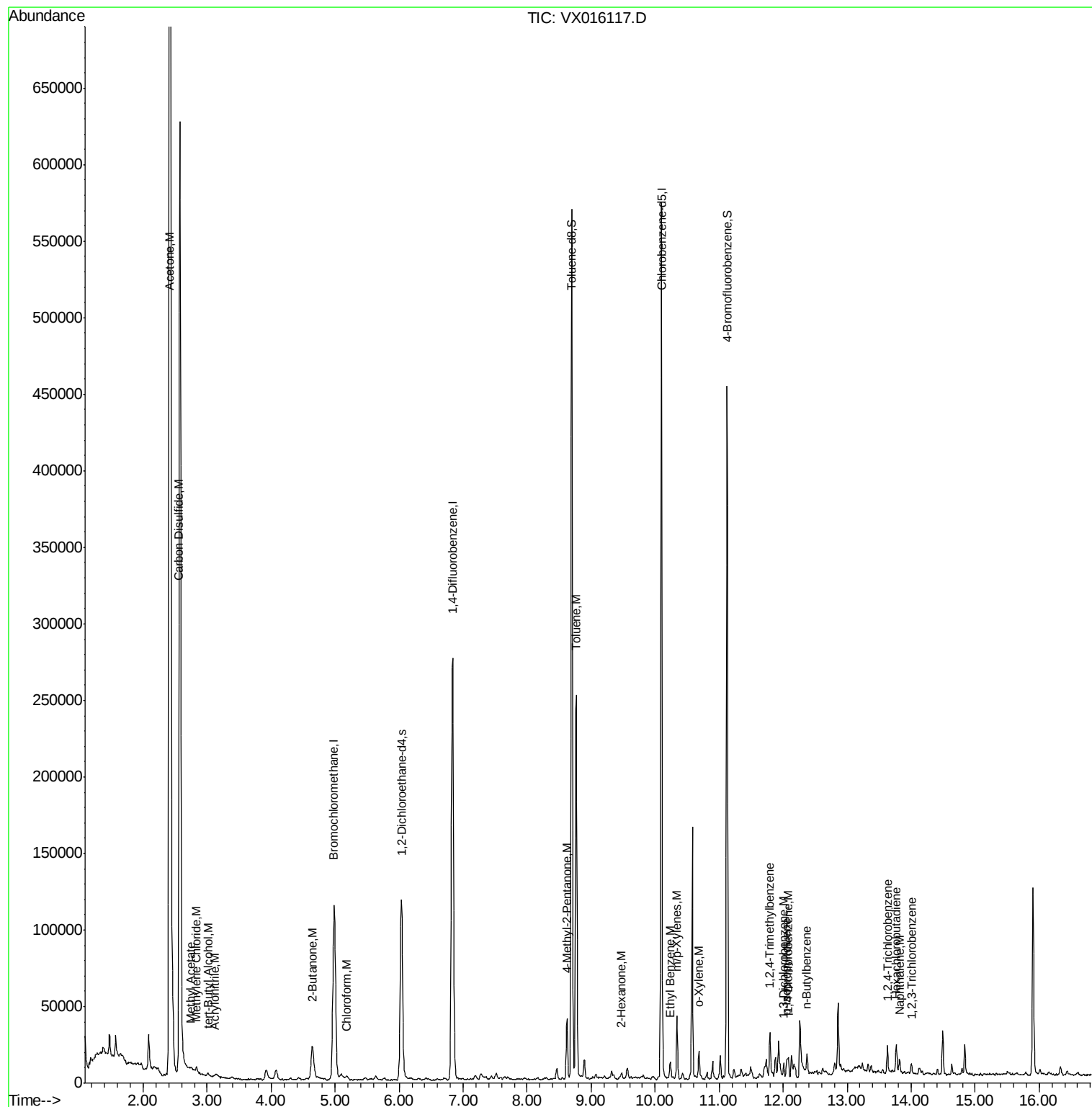
					Ovalue	
12) Methyl Acetate	2.75	43	1785	0.354	ug/l	# 76
14) Acrylonitrile	3.12	53	910	0.488	ug/l	67
15) Acetone	2.42	58	1122414	2274.110	ug/l	86
16) Carbon Disulfide	2.56	76	10674	1.213	ug/l	96
18) Methylene Chloride	2.84	84	1295	0.400	ug/l	93
23) tert-Butyl Alcohol	3.01	59	1862	2.040	ug/l	# 100
25) Chloroform	5.18	83	2496	0.426	ug/l	89
30) 2-Butanone	4.64	43	26601	10.150	ug/l	96
58) 4-Methyl-2-Pentanone	8.62	43	22573	4.530	ug/l	97
59) 2-Hexanone	9.47	43	2199	0.571	ug/l	# 93
62) Toluene	8.77	91	160614	11.897	ug/l	99
66) Ethyl Benzene	10.24	91	6315	0.411	ug/l	93
67) m/p-Xylenes	10.34	106	9441	1.612	ug/l	96
68) o-Xylene	10.68	106	3660	0.648	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	7577	0.586	ug/l	60
82) p-Isopropyltoluene	12.05	119	3054	0.221	ug/l	96
83) 1,3-Dichlorobenzene	12.01	146	1407	0.203	ug/l	89
84) 1,4-Dichlorobenzene	12.09	146	1431	0.208	ug/l	93
85) n-Butylbenzene	12.37	91	4008	0.318	ug/l	96
89) 1,2,4-Trichlorobenzene	13.63	180	2074	0.420	ug/l	97
90) Hexachlorobutadiene	13.77	225	1252	0.590	ug/l	88
91) Naphthalene	13.82	128	5084	0.324	ug/l	97
92) 1,2,3-Trichlorobenzene	14.01	180	1769	0.373	ug/l	96

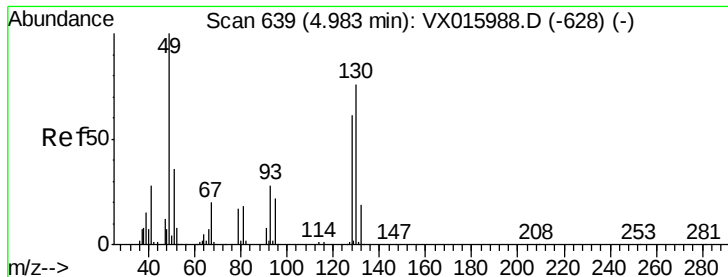
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: May 09 01:41:39 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Response via : Initial Calibration



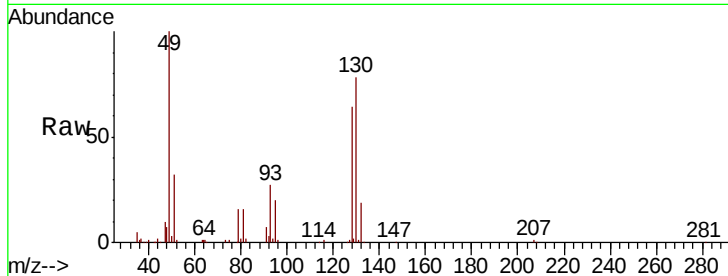


#1

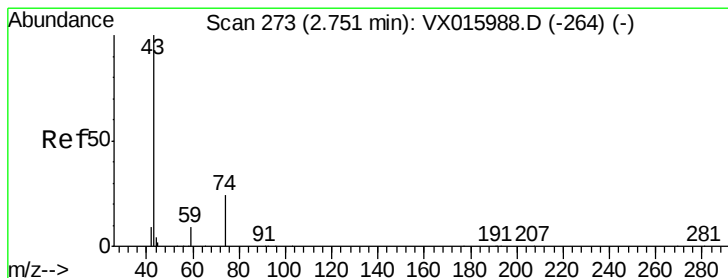
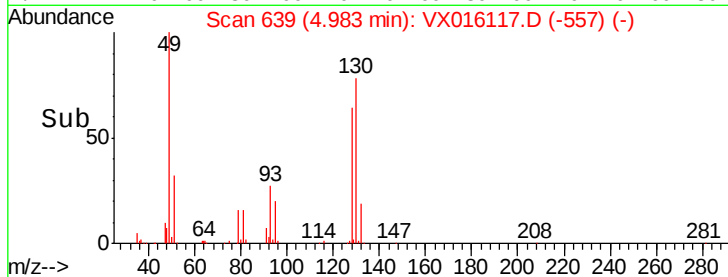
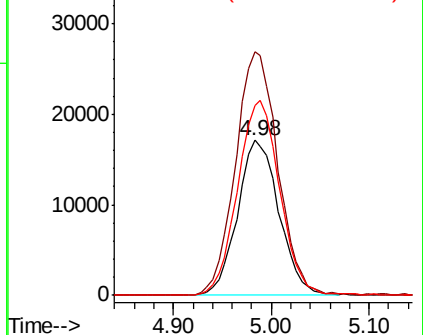
Bromochloromethane
 Concen: 30.000 ug/l
 RT: 4.98 min Scan# 639
 Delta R.T. 0.00 min
 Lab File: VX016117.D
 Acq: 08 May 2020 13:47

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
49	160.1	0.0	418.5
130	127.1	0.0	326.3



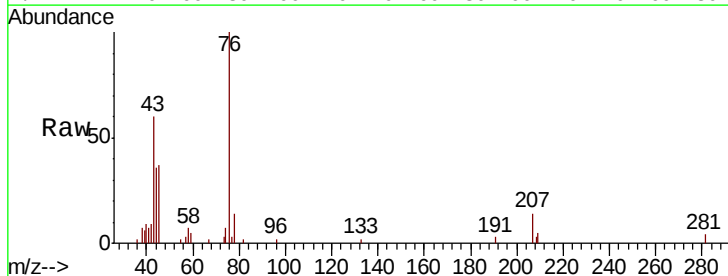
Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VX0
 Ion 130.00 (129.70 to 130.70): V



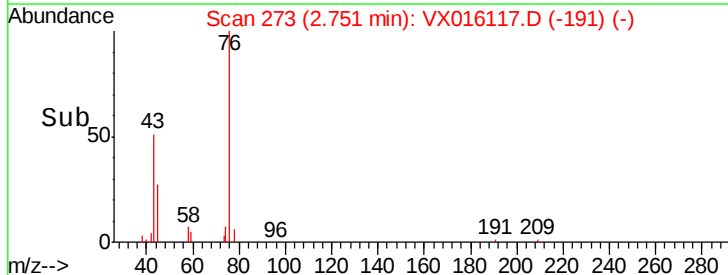
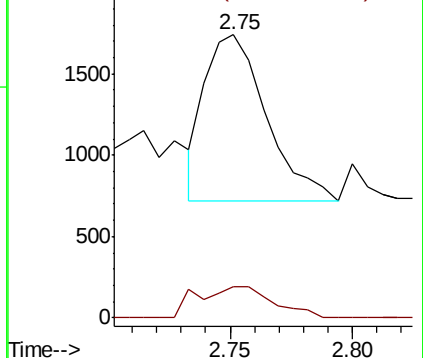
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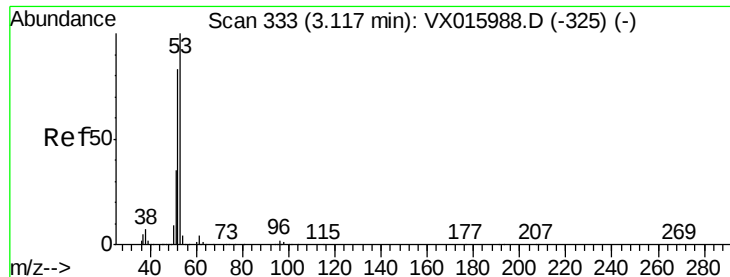
Methyl Acetate
 Concen: 0.354 ug/l
 RT: 2.75 min Scan# 273
 Delta R.T. 0.00 min
 Lab File: VX016117.D
 Acq: 08 May 2020 13:47

Tgt Ion	Ratio	Lower	Upper
43	100		
74	11.7	19.0	28.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 74.00 (73.70 to 74.70): VX0

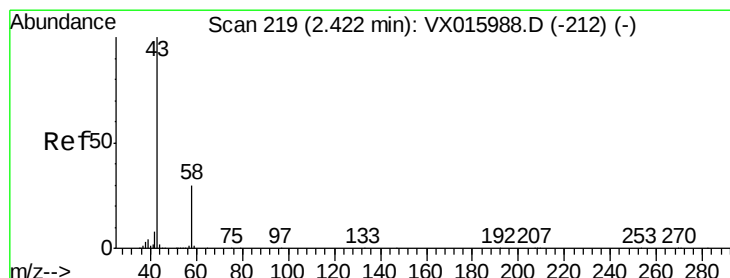
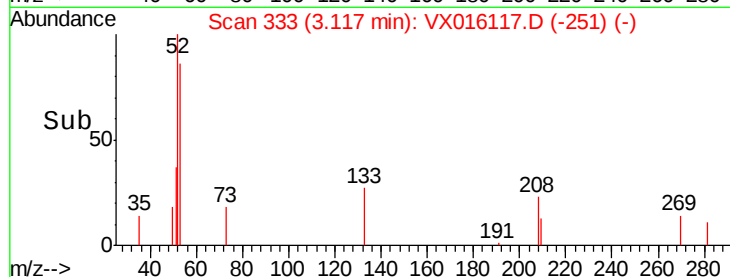
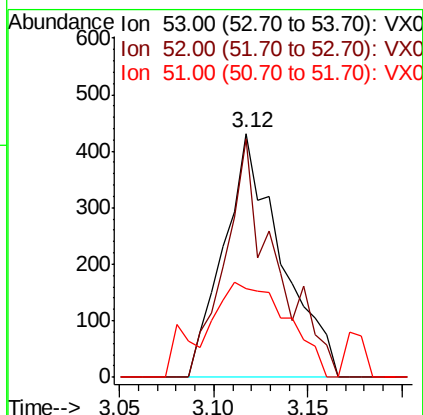
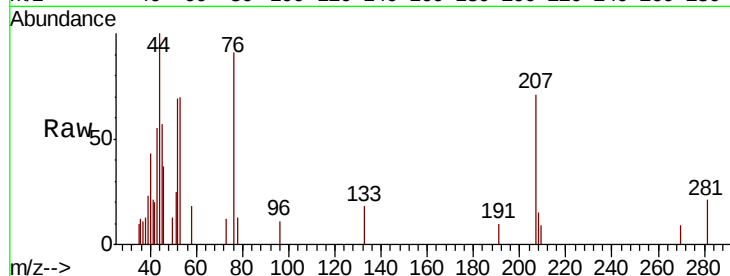




#14
 Acrylonitrile
 Concen: 0.488 ug/l
 RT: 3.12 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VX016117.D
 Acq: 08 May 2020 13:47

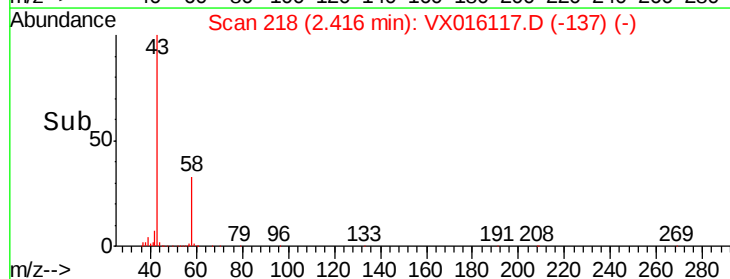
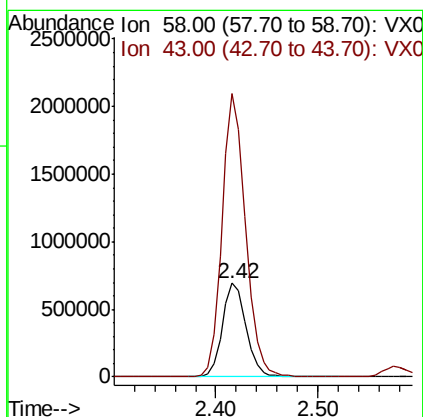
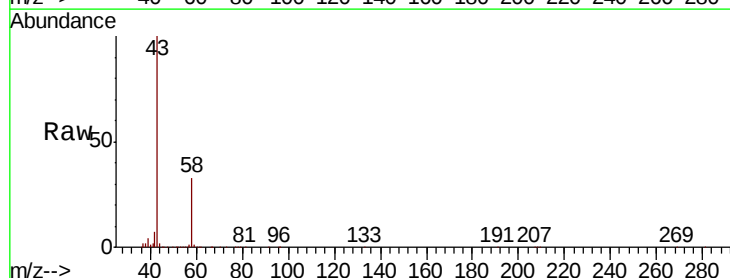
Instrument :
 MSVOA_X
 ClientSampleId :

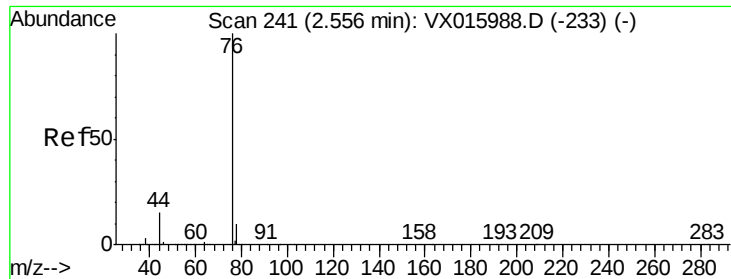
Tot Ion: 53 Resp: 910
 Ion Ratio Lower Upper
 53 100
 52 52.4 41.2 123.6
 51 17.9 17.8 53.5



#15
 Acetone
 Concen: 2274.110 ug/l
 RT: 2.42 min Scan# 218
 Delta R.T. -0.01 min
 Lab File: VX016117.D
 Acq: 08 May 2020 13:47

Tgt Ion: 58 Resp: 1122414
 Ion Ratio Lower Upper
 58 100
 43 301.8 264.2 396.2

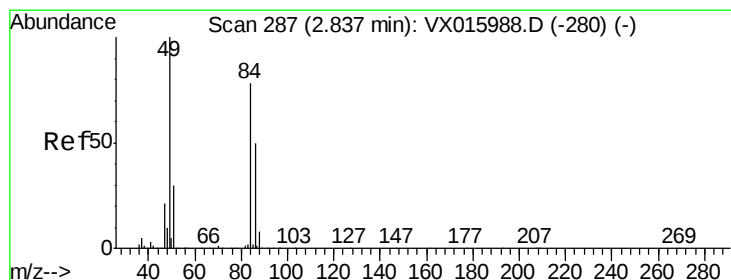
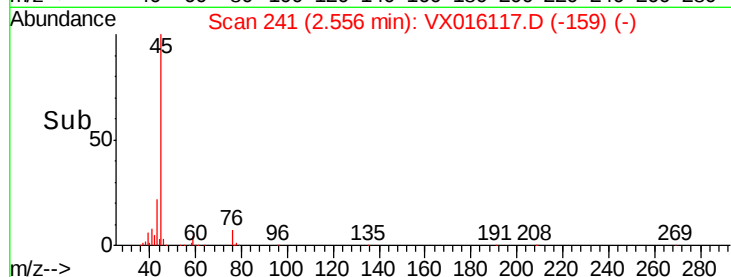
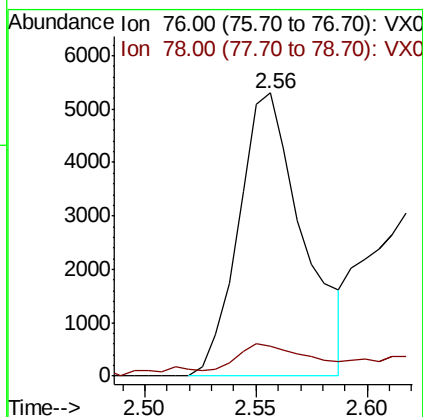
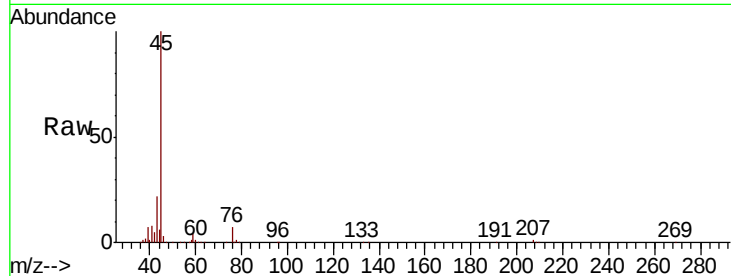




#16
Carbon Disulfide
Concen: 1.213 ug/l
RT: 2.56 min Scan# 241
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

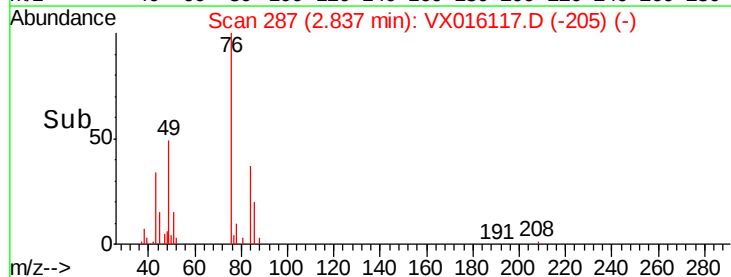
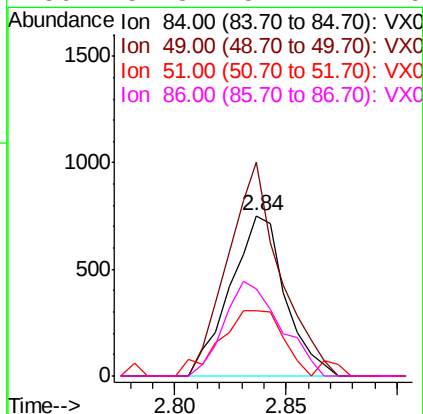
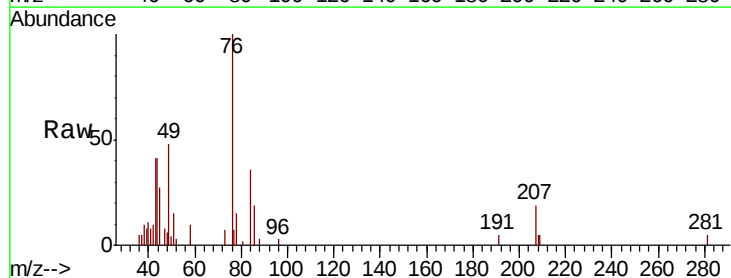
Instrument :
MSVOA_X
ClientSampleId :

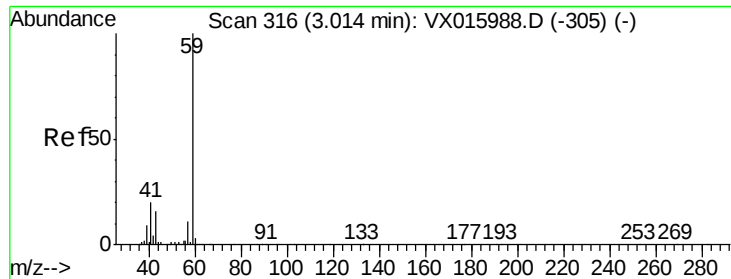
Tot Ion: 76 Resp: 10674
Ion Ratio Lower Upper
76 100
78 8.0 7.7 11.5



#18
Methylene Chloride
Concen: 0.400 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

Tgt Ion: 84 Resp: 1295
Ion Ratio Lower Upper
84 100
49 133.4 103.0 154.4
51 33.4 31.4 47.0
86 54.3 51.7 77.5

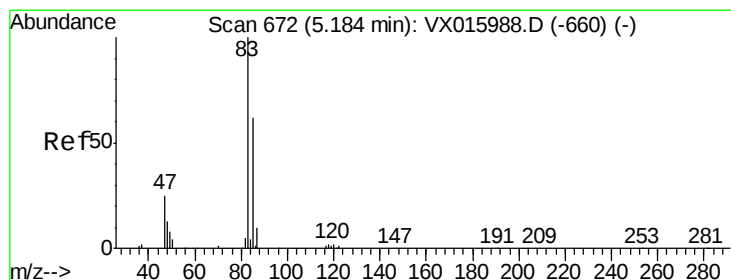
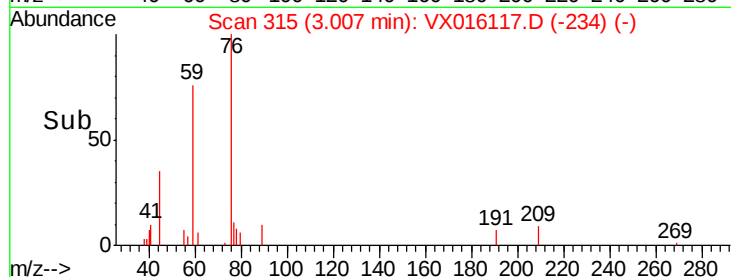
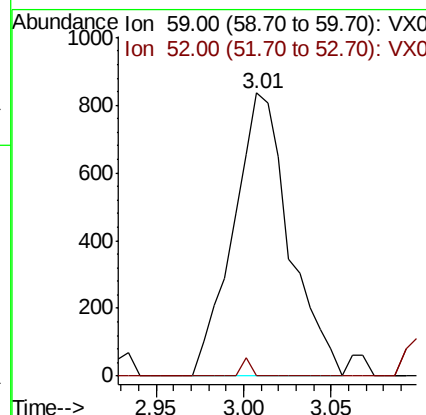
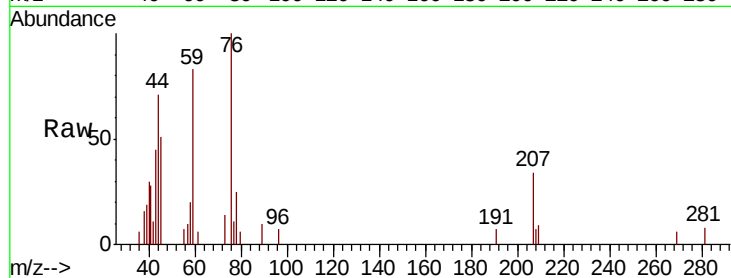




#23
tert-Butyl Alcohol
Concen: 2.040 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

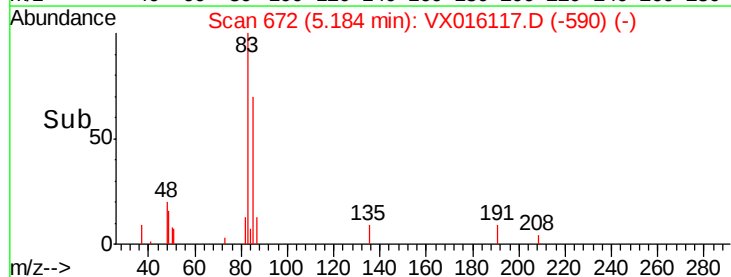
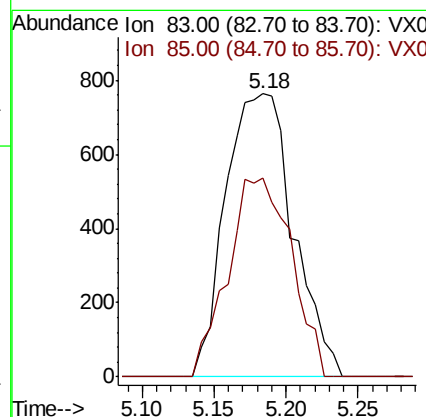
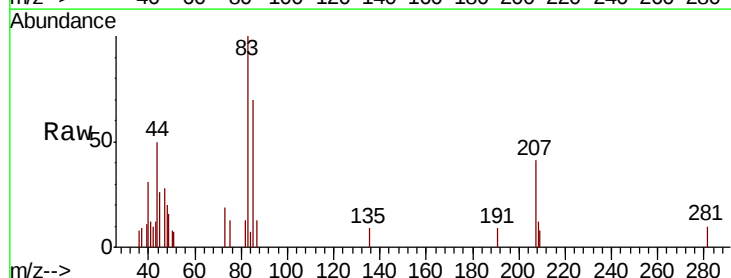
Instrument :
MSVOA_X
ClientSampleId :

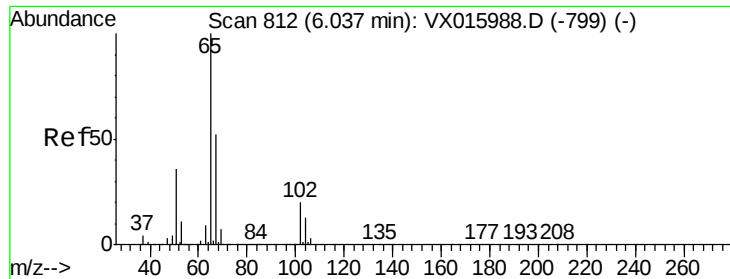
Tot Ion: 59 Resp: 1862
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#25
Chloroform
Concen: 0.426 ug/l
RT: 5.18 min Scan# 672
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

Tgt Ion: 83 Resp: 2496
Ion Ratio Lower Upper
83 100
85 70.4 49.6 74.4





#27

1,2-Dichloroethane-d4

Concen: 28.830 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.00 min

Lab File: VX016117.D

Acq: 08 May 2020 13:47

Instrument :

MSVOA_X

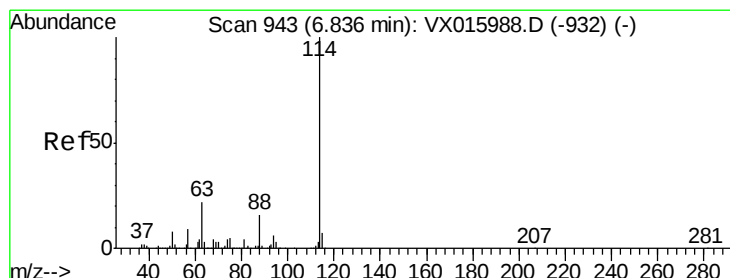
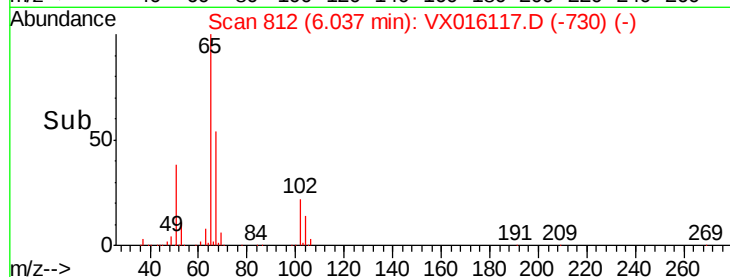
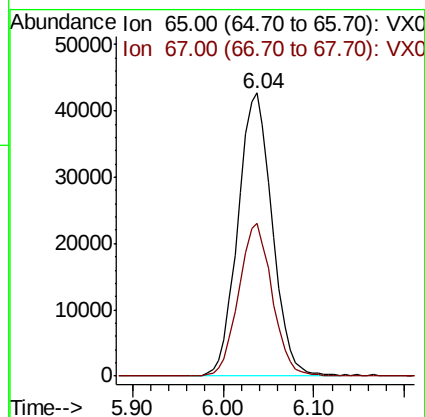
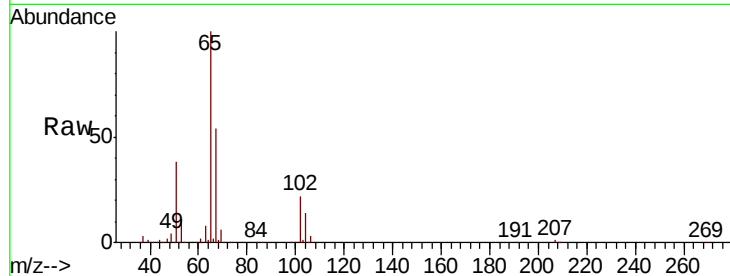
ClientSampleId :

Tot Ion: 65 Resp: 111975

Ion Ratio Lower Upper

65 100

67 52.7 41.0 61.4



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.00 min

Lab File: VX016117.D

Acq: 08 May 2020 13:47

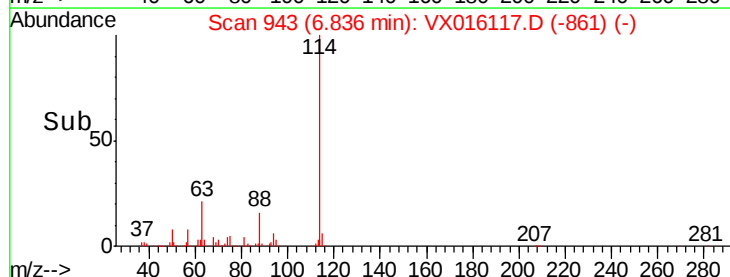
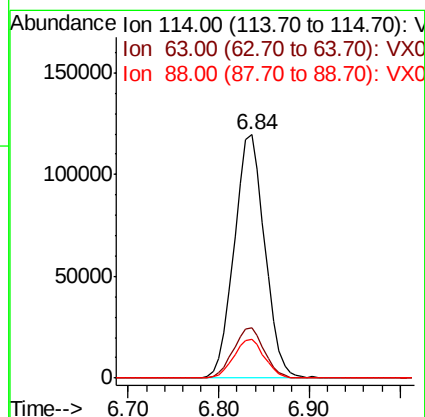
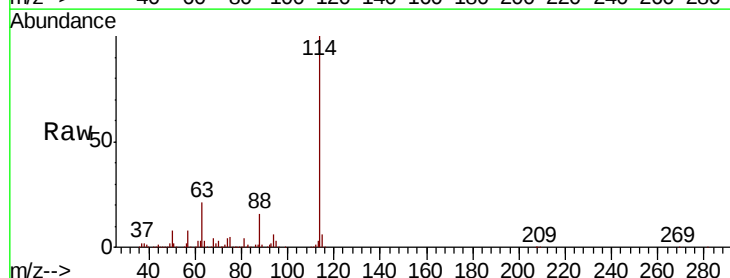
Tgt Ion: 114 Resp: 279661

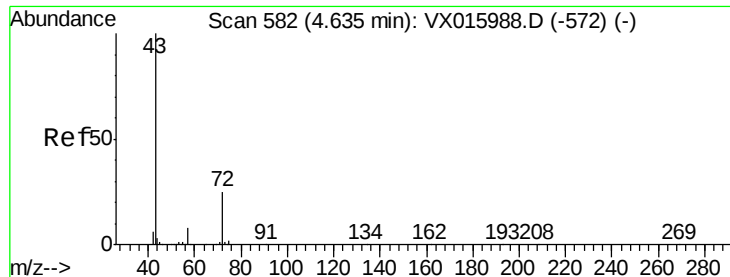
Ion Ratio Lower Upper

114 100

63 21.0 17.1 25.7

88 16.1 13.0 19.4

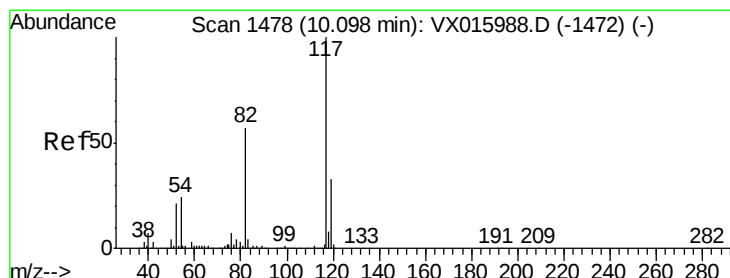
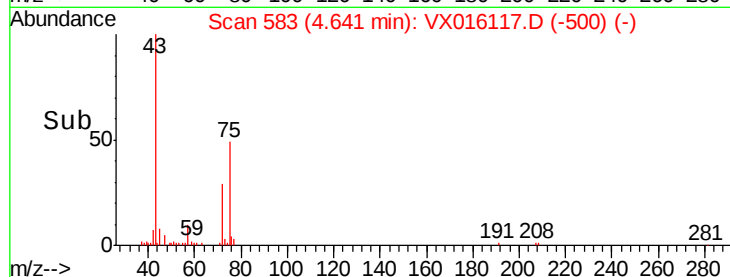
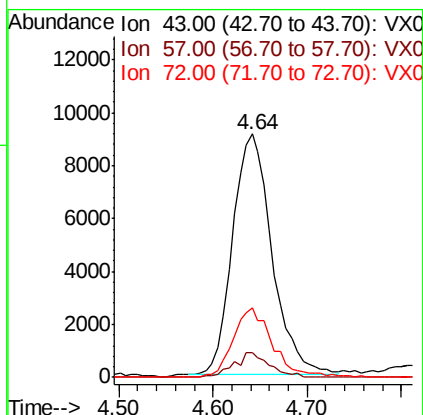
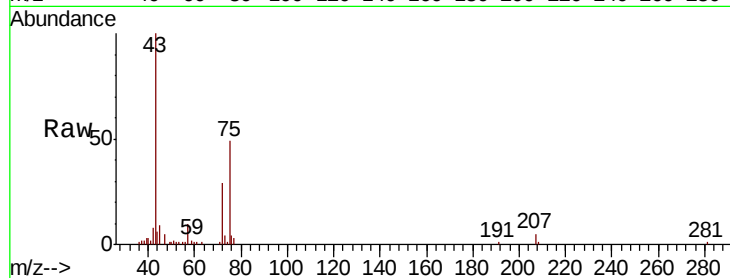




#30
2-Butanone
Concen: 10.150 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

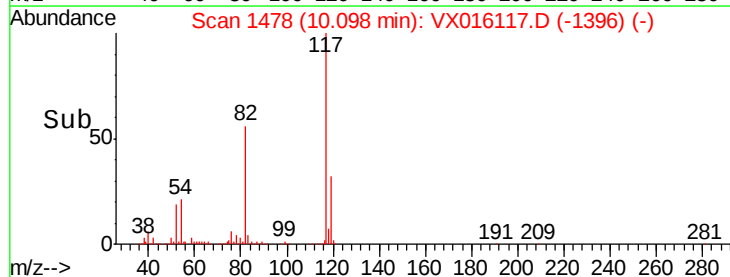
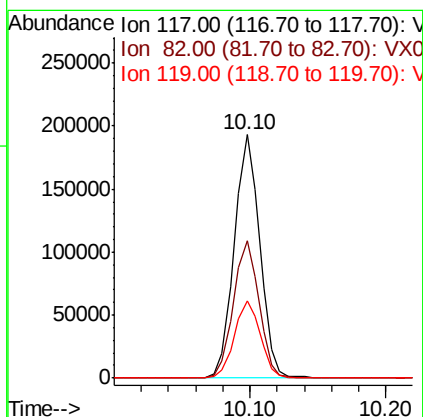
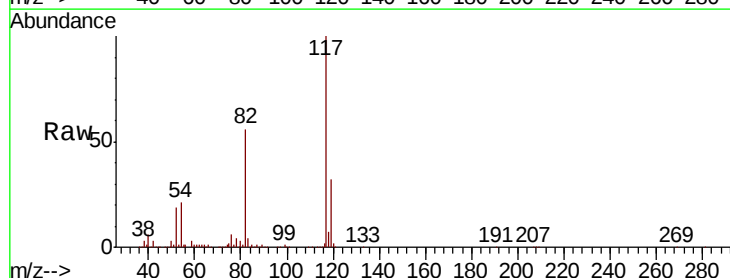
Instrument :
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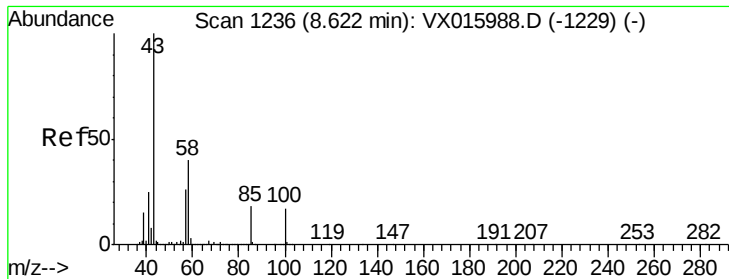
Tot Ion: 43 Resp: 26601
Ion Ratio Lower Upper
43 100
57 9.4 6.3 9.5
72 27.9 20.8 31.2



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

Tgt Ion: 117 Resp: 252711
Ion Ratio Lower Upper
117 100
82 56.6 45.1 67.7
119 32.1 25.6 38.4

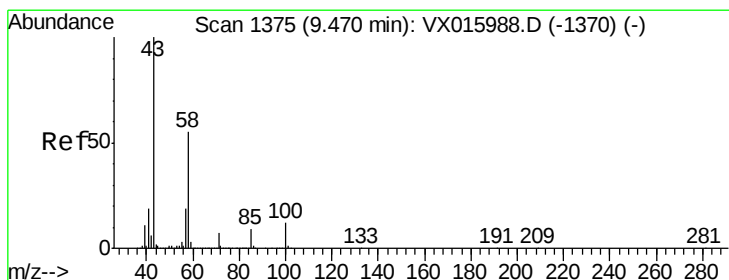
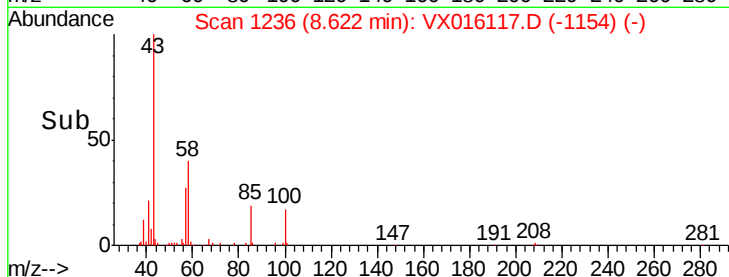
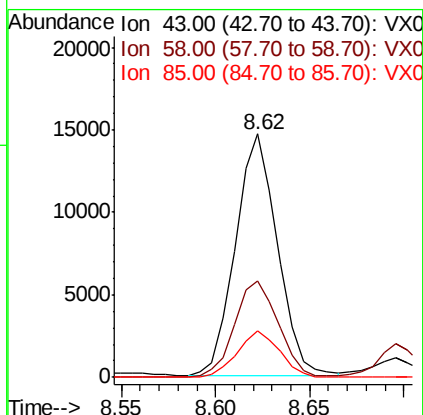
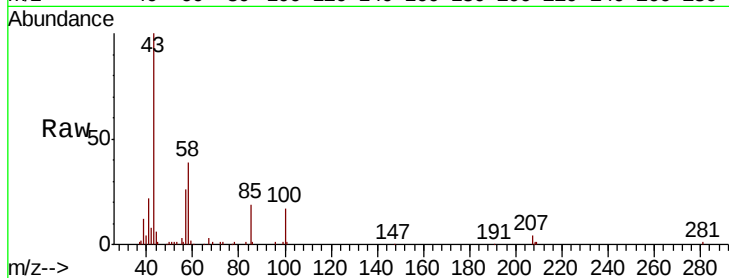




#58
4-Methyl-2-Pentanone
Concen: 4.530 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

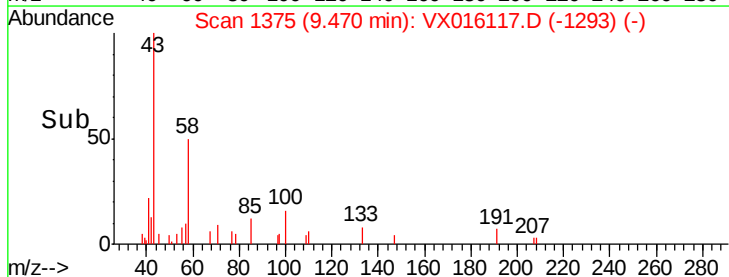
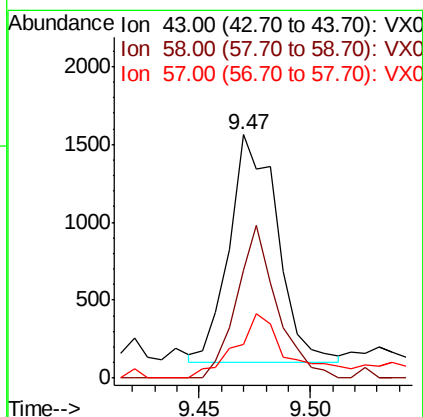
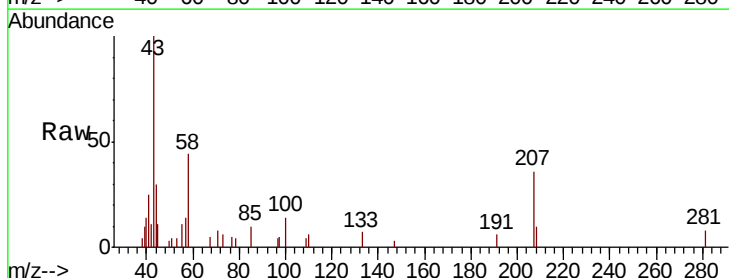
Instrument :
MSVOA_X
ClientSampleId :

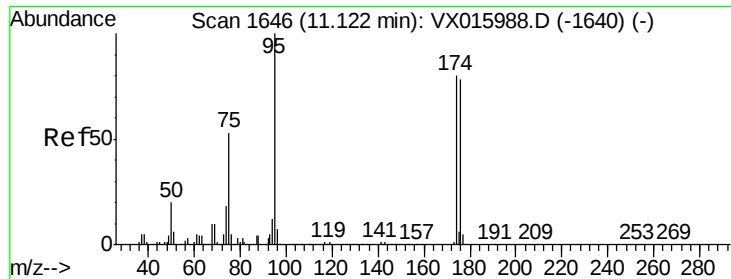
Tot Ion	Ratio	Lower	Upper
43	100		
58	41.7	31.8	47.6
85	19.3	14.5	21.7



#59
2-Hexanone
Concen: 0.571 ug/l
RT: 9.47 min Scan# 1375
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

Tgt Ion	Ratio	Lower	Upper
43	100		
58	55.6	44.0	66.0
57	31.2	15.5	23.3#

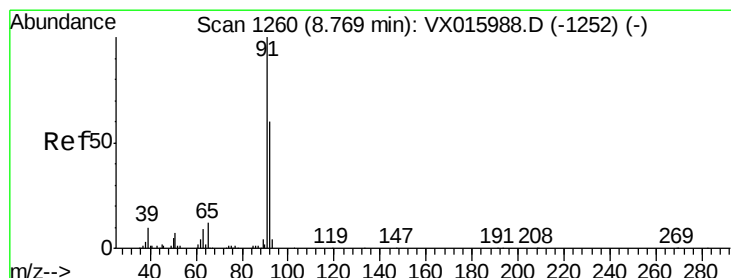
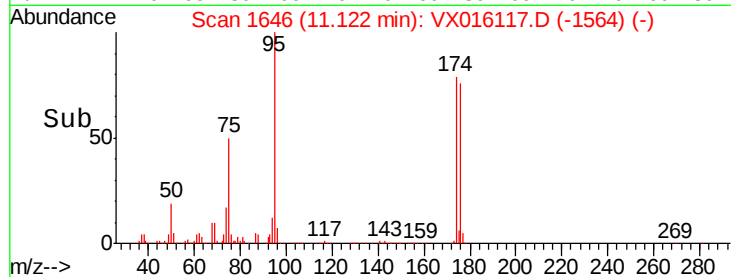
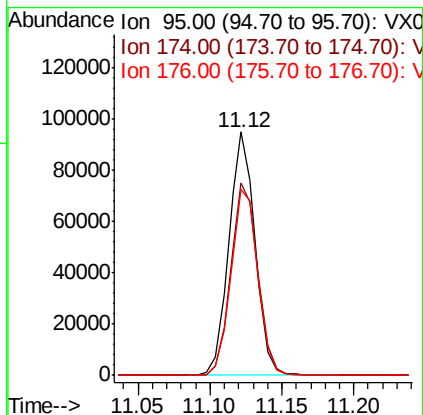
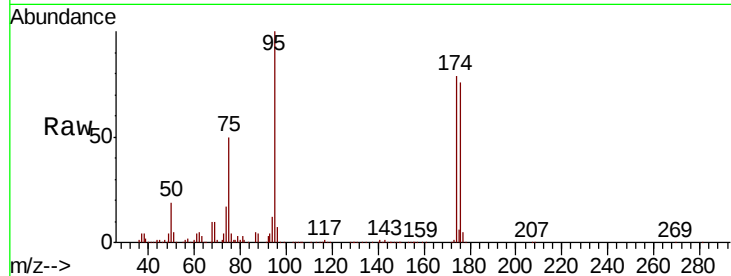




#60
4-Bromofluorobenzene
Concen: 28.455 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

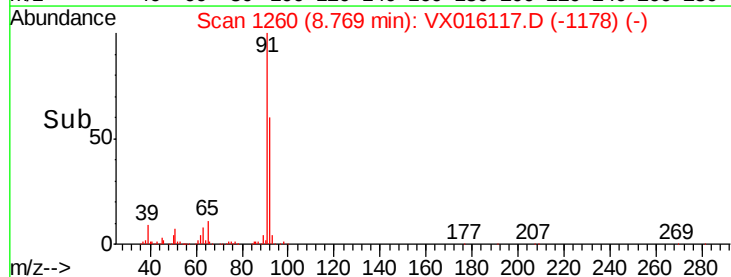
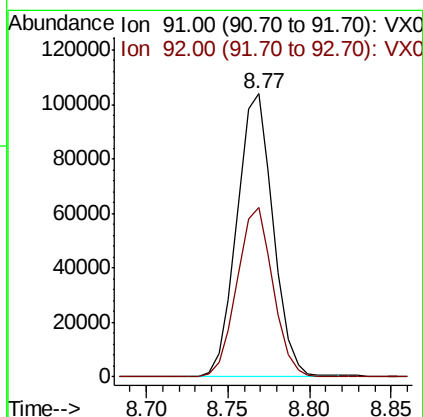
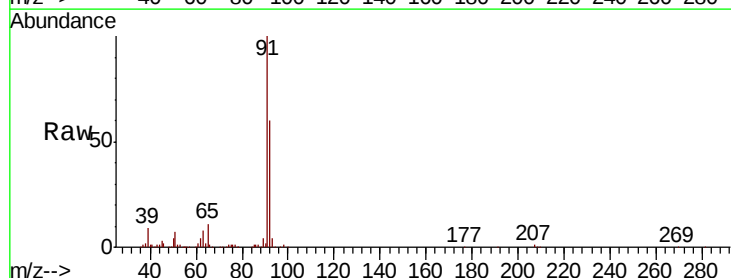
Instrument :
MSVOA_X
ClientSampleId :

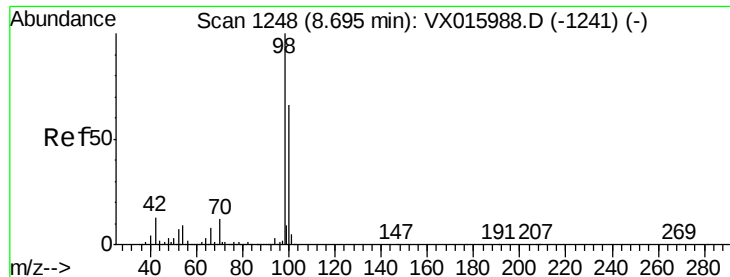
Tot Ion	95	Resp	120590
Ion Ratio	Lower	Upper	
95	100		
174	81.0	64.8	97.2
176	78.7	62.4	93.6



#62
Toluene
Concen: 11.897 ug/l
RT: 8.77 min Scan# 1260
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

Tgt Ion	91	Resp	160614
Ion Ratio	Lower	Upper	
91	100		
92	59.6	47.2	70.8





#63

Toluene-d8

Concen: 30.979 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016117.D

Acq: 08 May 2020 13:47

Instrument :

MSVOA_X

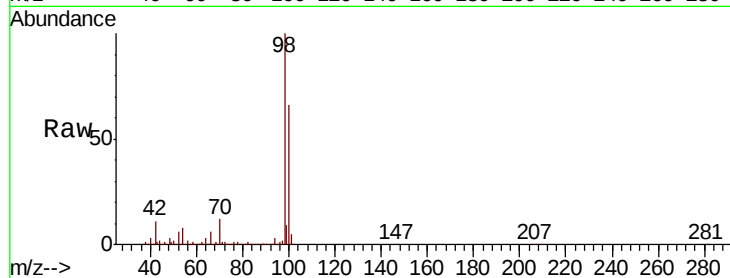
ClientSampleId :

Tot Ion: 98 Resp: 335839

Ion Ratio Lower Upper

98 100

100 66.1 52.5 78.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

150000

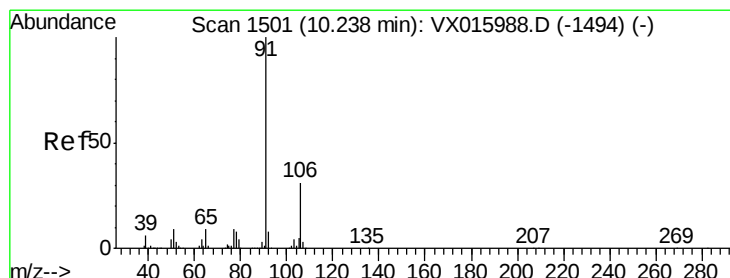
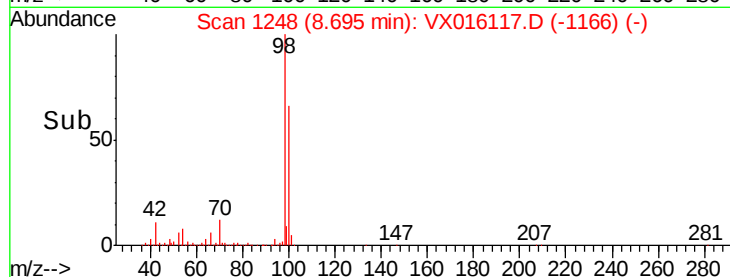
100000

50000

0

8.65 8.70 8.75

Time-->



#66

Ethyl Benzene

Concen: 0.411 ug/l

RT: 10.24 min Scan# 1501

Delta R.T. 0.00 min

Lab File: VX016117.D

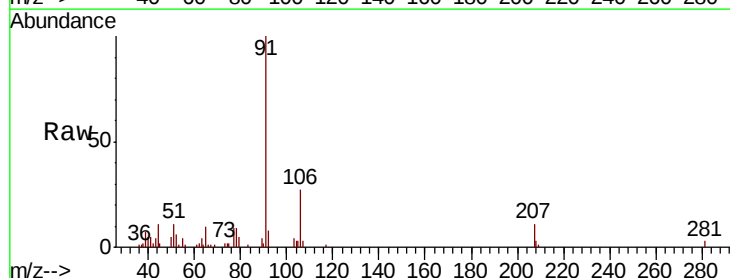
Acq: 08 May 2020 13:47

Tgt Ion: 91 Resp: 6315

Ion Ratio Lower Upper

91 100

106 26.9 24.8 37.2



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

5000

4000

3000

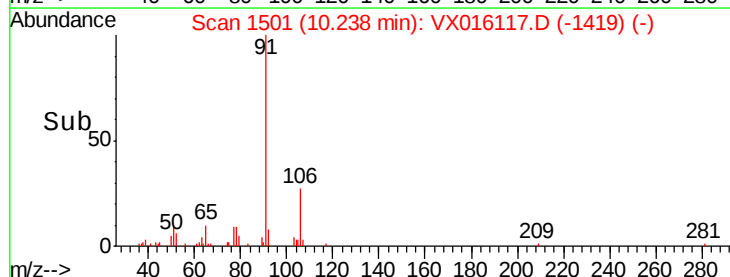
2000

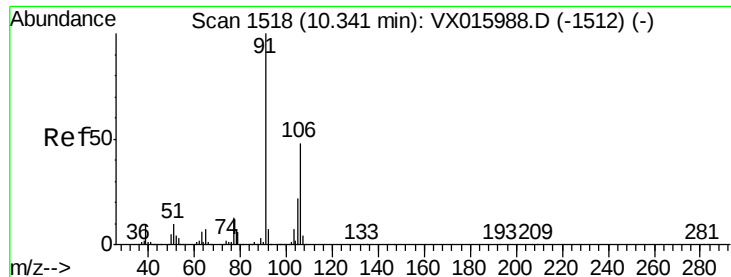
1000

0

10.20 10.25

Time-->





#67

m/p-Xylenes

Concen: 1.612 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX016117.D

Acq: 08 May 2020 13:47

Instrument :

MSVOA_X

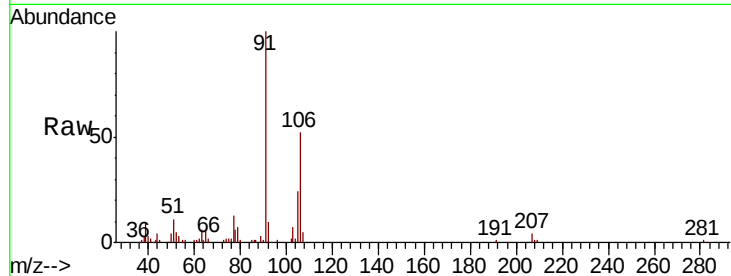
ClientSampled :

Tot Ion:106 Resp: 9441

Ion Ratio Lower Upper

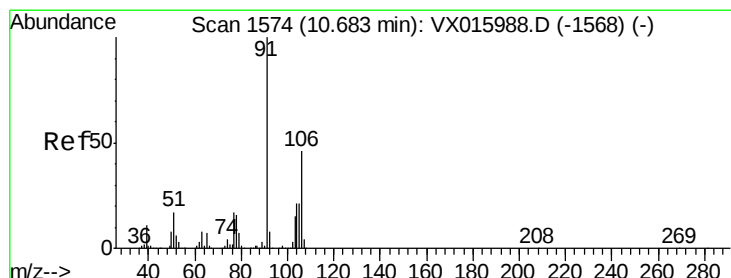
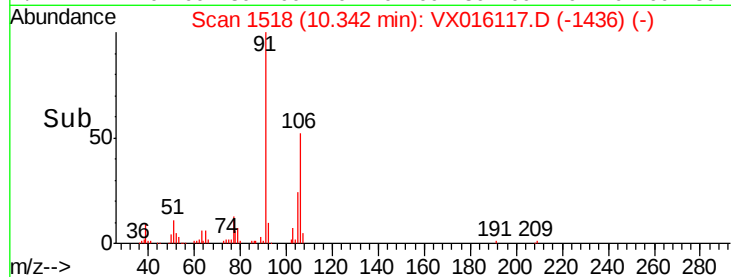
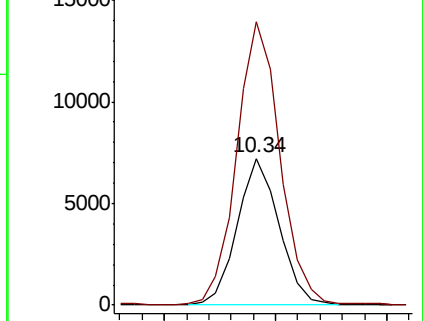
106 100

91 199.5 164.2 246.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#68

o-Xylene

Concen: 0.648 ug/l

RT: 10.68 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VX016117.D

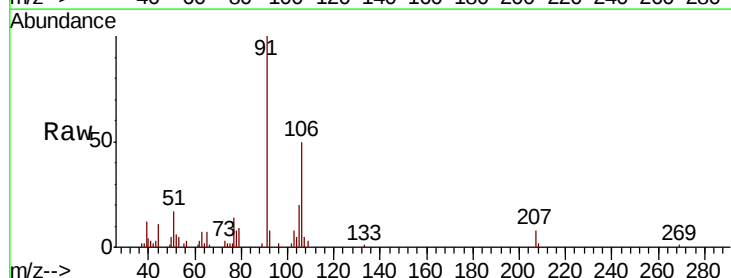
Acq: 08 May 2020 13:47

Tgt Ion:106 Resp: 3660

Ion Ratio Lower Upper

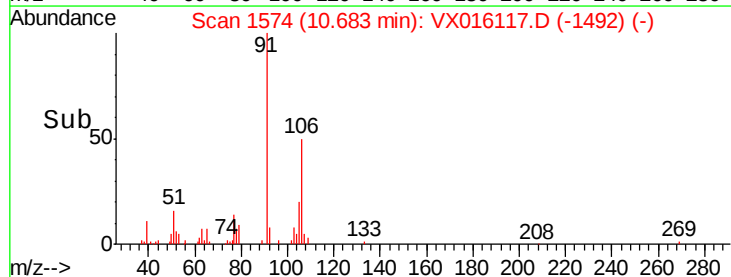
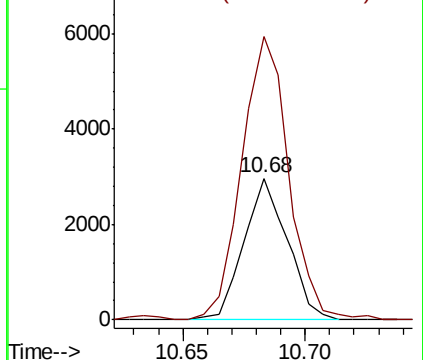
106 100

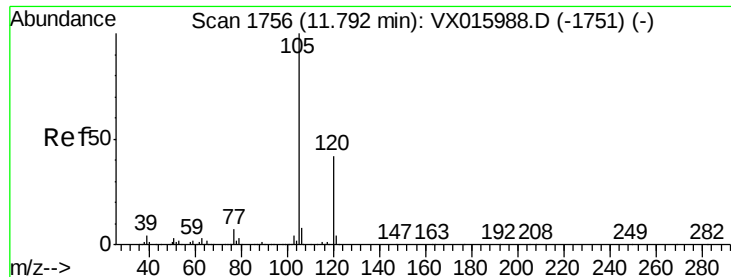
91 216.4 108.3 325.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

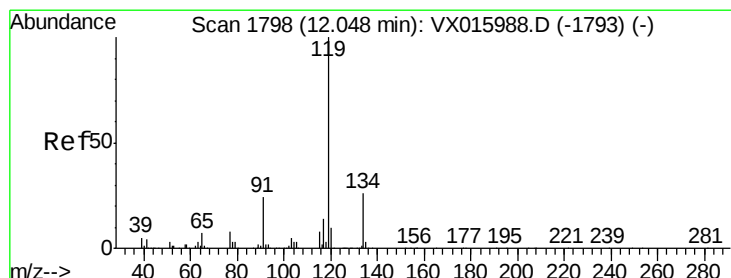
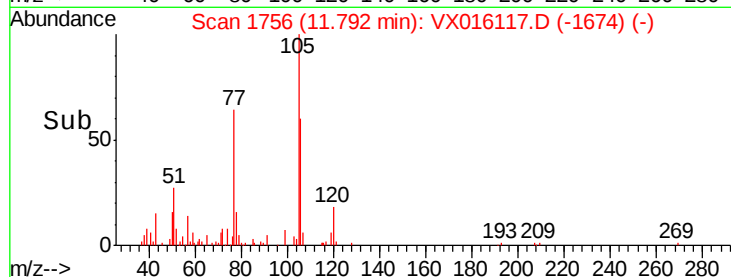
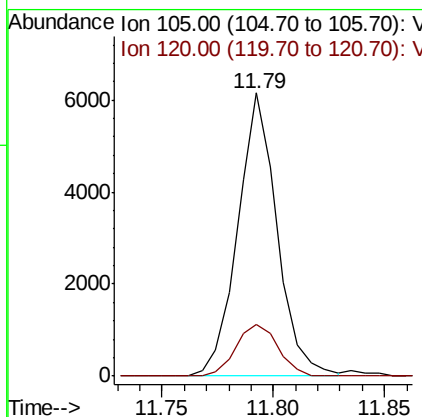
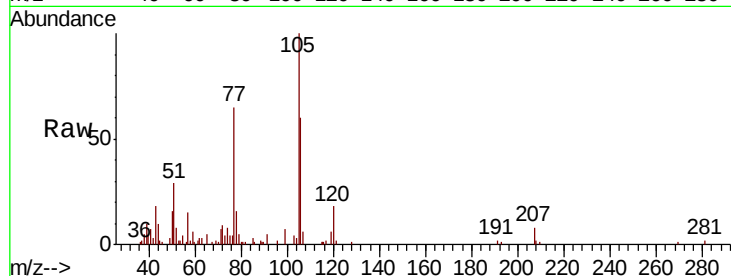




#80
 1,2,4-Trimethylbenzene
 Concen: 0.586 ug/l
 RT: 11.79 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VX016117.D
 Acq: 08 May 2020 13:47

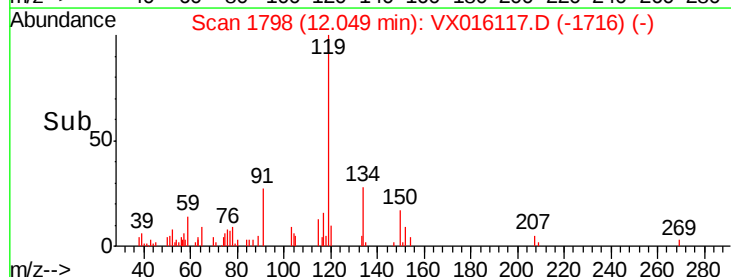
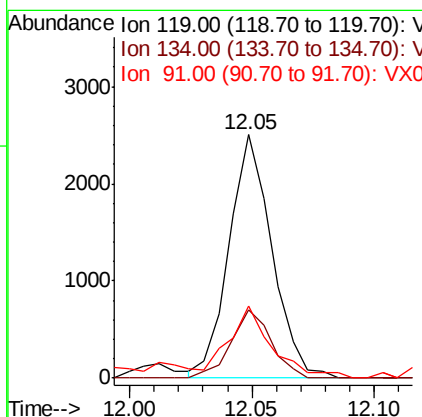
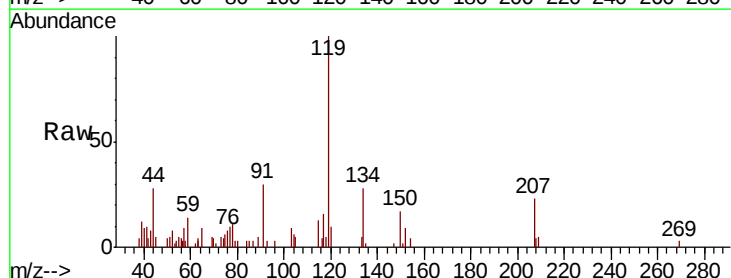
Instrument :
 MSVOA_X
 ClientSampleId :

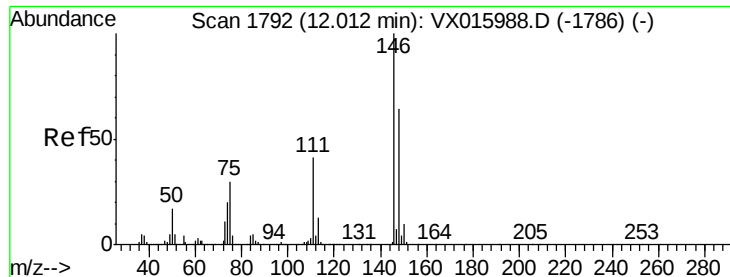
Tot Ion:105 Resp: 7577
 Ion Ratio Lower Upper
 105 100
 120 19.4 0.0 91.0



#82
 p-Isopropyltoluene
 Concen: 0.221 ug/l
 RT: 12.05 min Scan# 1798
 Delta R.T. 0.00 min
 Lab File: VX016117.D
 Acq: 08 May 2020 13:47

Tgt Ion:119 Resp: 3054
 Ion Ratio Lower Upper
 119 100
 134 26.3 0.0 52.6
 91 28.1 0.0 47.6





#83

1,3-Dichlorobenzene

Concen: 0.203 ug/l

RT: 12.01 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX016117.D

Acq: 08 May 2020 13:47

Instrument :

MSVOA_X

ClientSampled :

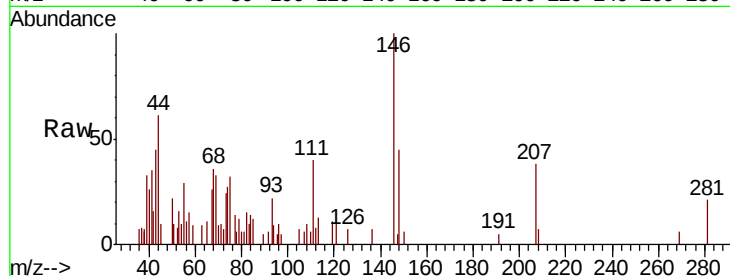
Tot Ion:146 Resp: 1407

Ion Ratio Lower Upper

146 100

111 46.7 20.4 61.3

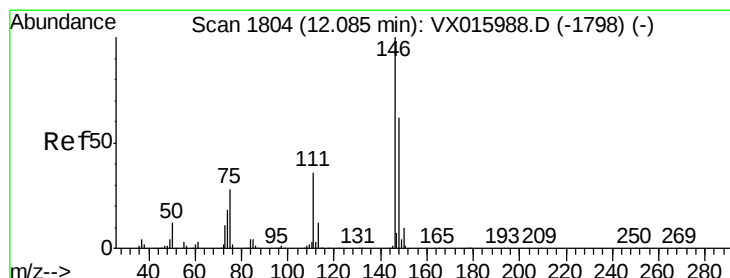
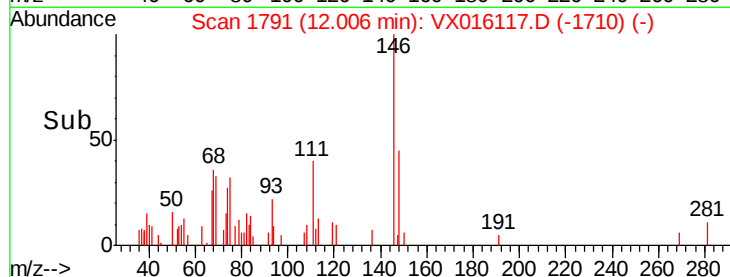
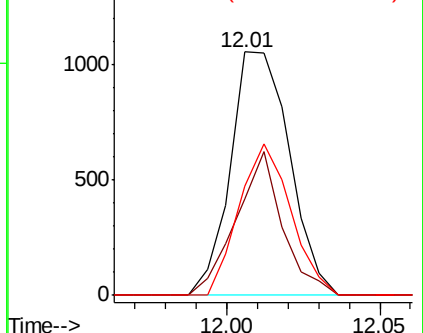
148 54.8 31.9 95.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#84

1,4-Dichlorobenzene

Concen: 0.208 ug/l

RT: 12.09 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VX016117.D

Acq: 08 May 2020 13:47

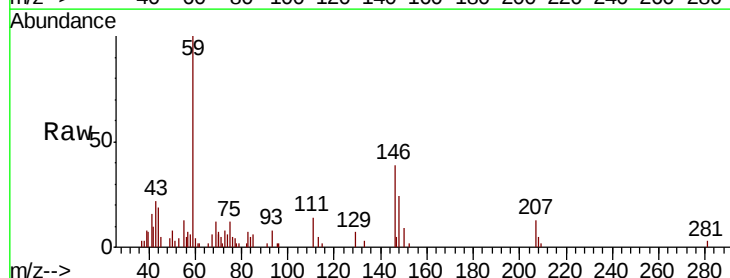
Tgt Ion:146 Resp: 1431

Ion Ratio Lower Upper

146 100

111 39.0 19.7 59.0

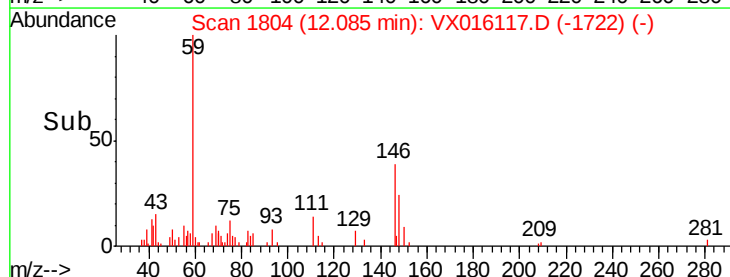
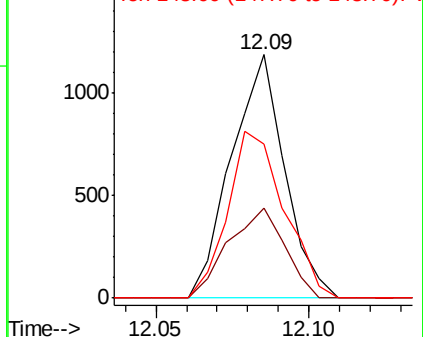
148 72.4 32.0 96.0

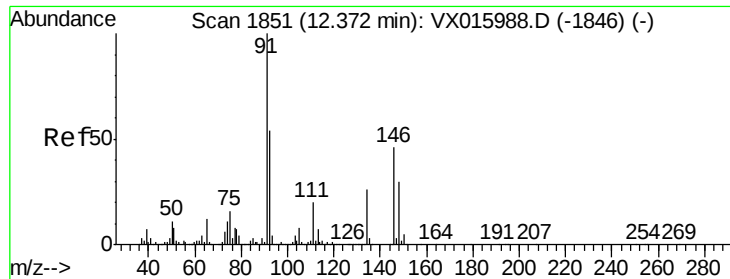


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

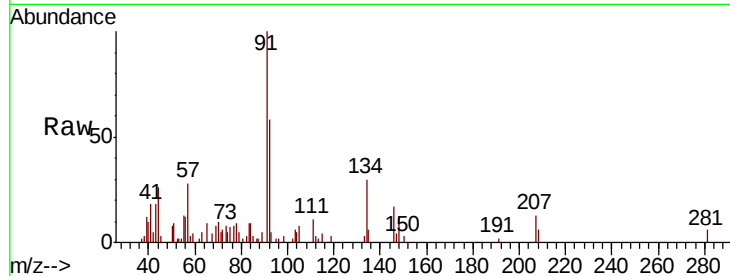




#85
n-Butylbenzene
Concen: 0.318 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.0	0.0	110.2
134	29.5	0.0	53.4

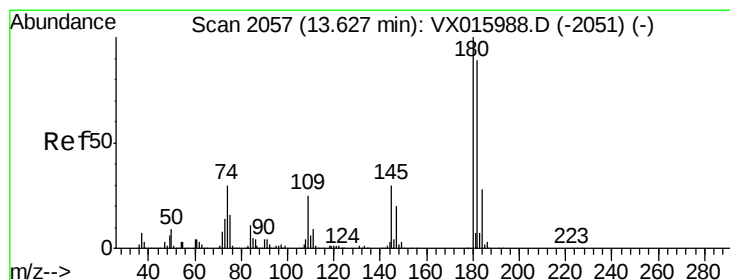
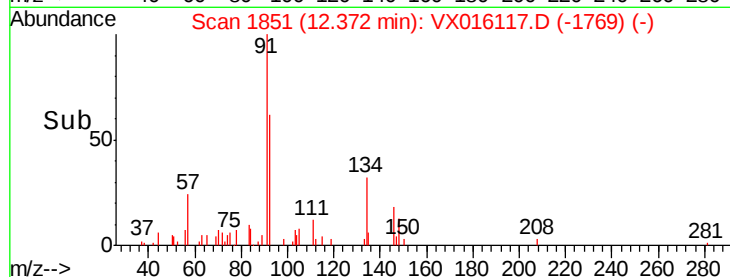
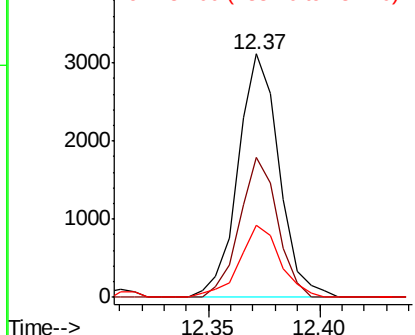


Abundance

Ion 91.00 (90.70 to 91.70): VX015988.D (-1846) (-)

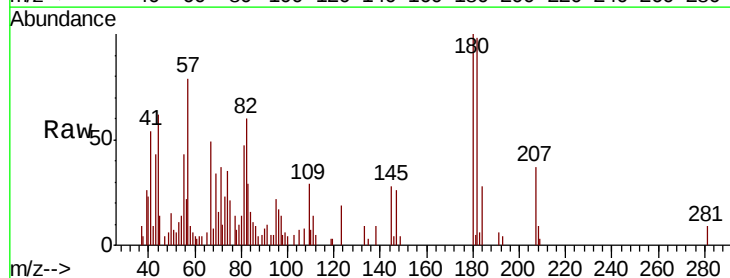
Ion 92.00 (91.70 to 92.70): VX015988.D (-1846) (-)

Ion 134.00 (133.70 to 134.70): VX015988.D (-1846) (-)



#89
1,2,4-Trichlorobenzene
Concen: 0.420 ug/l
RT: 13.63 min Scan# 2057
Delta R.T. 0.00 min
Lab File: VX016117.D
Acq: 08 May 2020 13:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.9	75.0	112.6
145	30.6	23.9	35.9

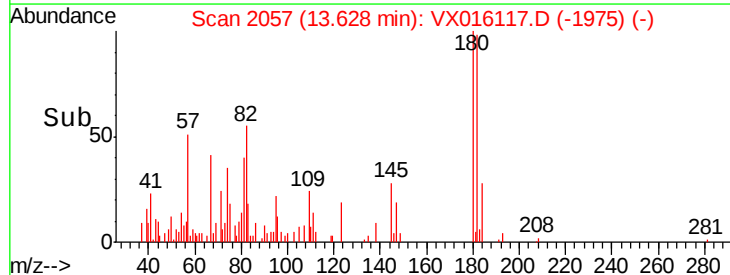
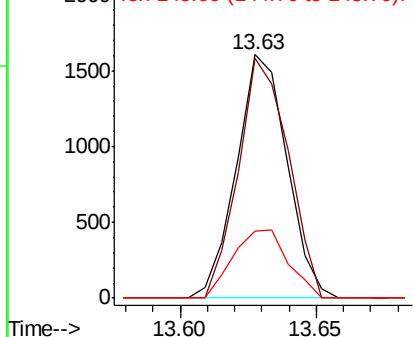


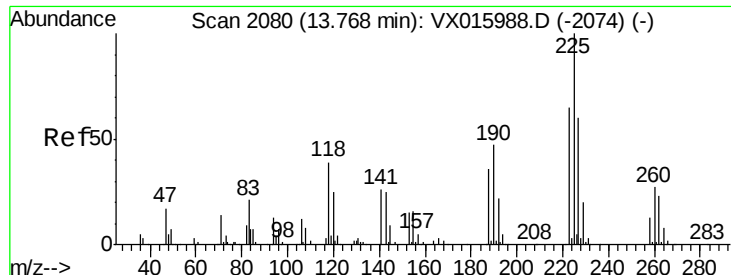
Abundance

Ion 180.00 (179.70 to 180.70): VX015988.D (-2051) (-)

Ion 182.00 (181.70 to 182.70): VX015988.D (-2051) (-)

Ion 145.00 (144.70 to 145.70): VX015988.D (-2051) (-)





#90

Hexachlorobutadiene

Concen: 0.590 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016117.D

Acq: 08 May 2020 13:47

Instrument :

MSVOA_X

ClientSampled :

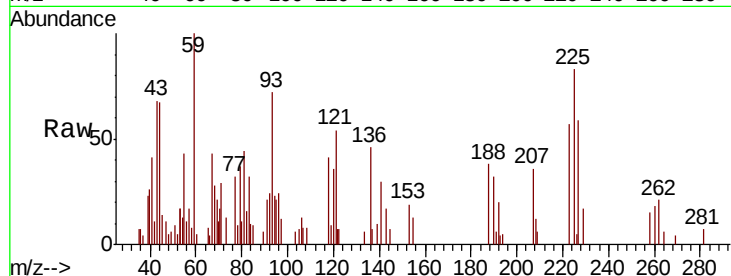
Tot Ion:225 Resp: 1252

Ion Ratio Lower Upper

225 100

223 71.7 0.0 123.6

227 70.7 0.0 123.6

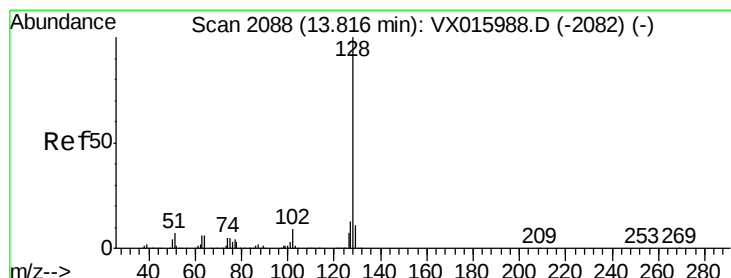
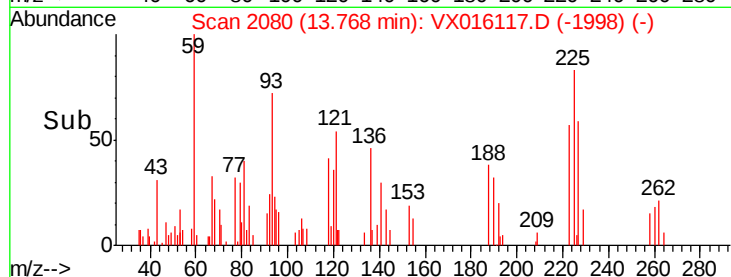
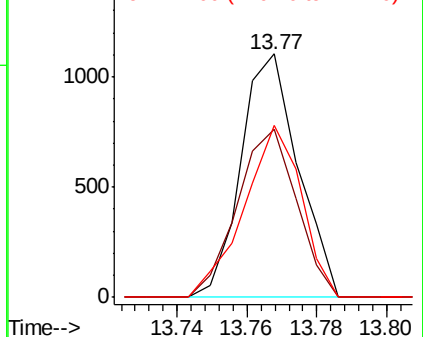


Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 0.324 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX016117.D

Acq: 08 May 2020 13:47

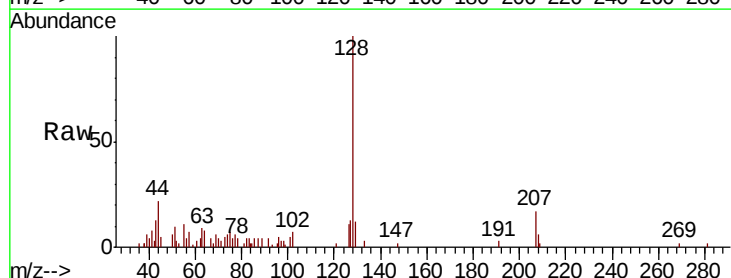
Tgt Ion:128 Resp: 5084

Ion Ratio Lower Upper

128 100

127 14.6 10.5 15.7

129 11.5 8.6 13.0

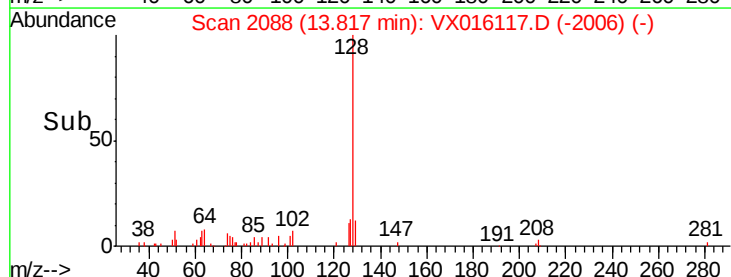
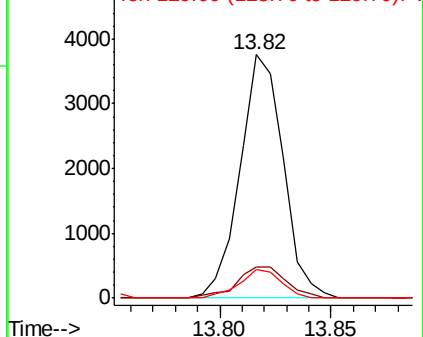


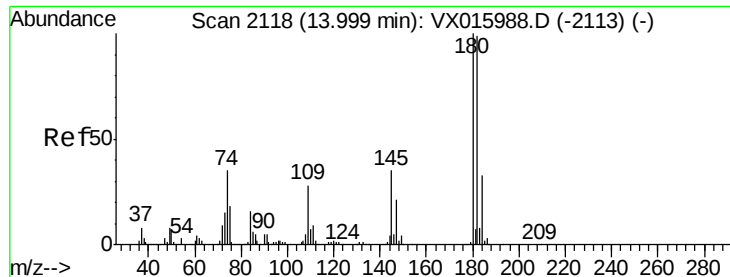
Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

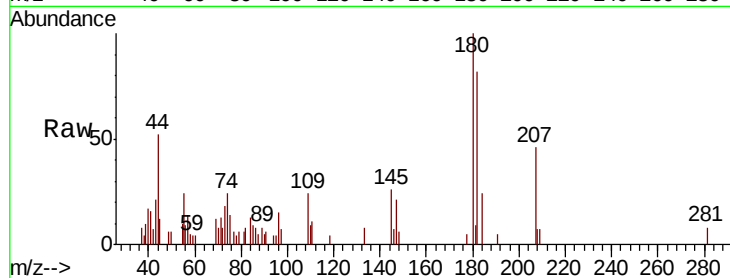




#92
 1,2,3-Trichlorobenzene
 Concen: 0.373 ug/l
 RT: 14.01 min Scan# 2119
 Delta R.T. 0.01 min
 Lab File: VX016117.D
 Acq: 08 May 2020 13:47

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.4	0.0	197.2
145	33.0	0.0	66.0



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

