

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112120\
 Data File : VX019521.D
 Acq On : 21 Nov 2020 02:47
 Operator : JC/MD
 Sample : L4779-14 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-1605-1607

Quant Time: Nov 21 05:35:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 21 01:57:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	281787	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	461953	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	405771	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	195035	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	173358	47.45	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.90%
35) Dibromofluoromethane	5.46	113	135582	46.76	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.52%
50) Toluene-d8	8.70	98	545443	48.41	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	96.82%
62) 4-Bromofluorobenzene	11.12	95	196760	48.53	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	97.06%

Target Compounds

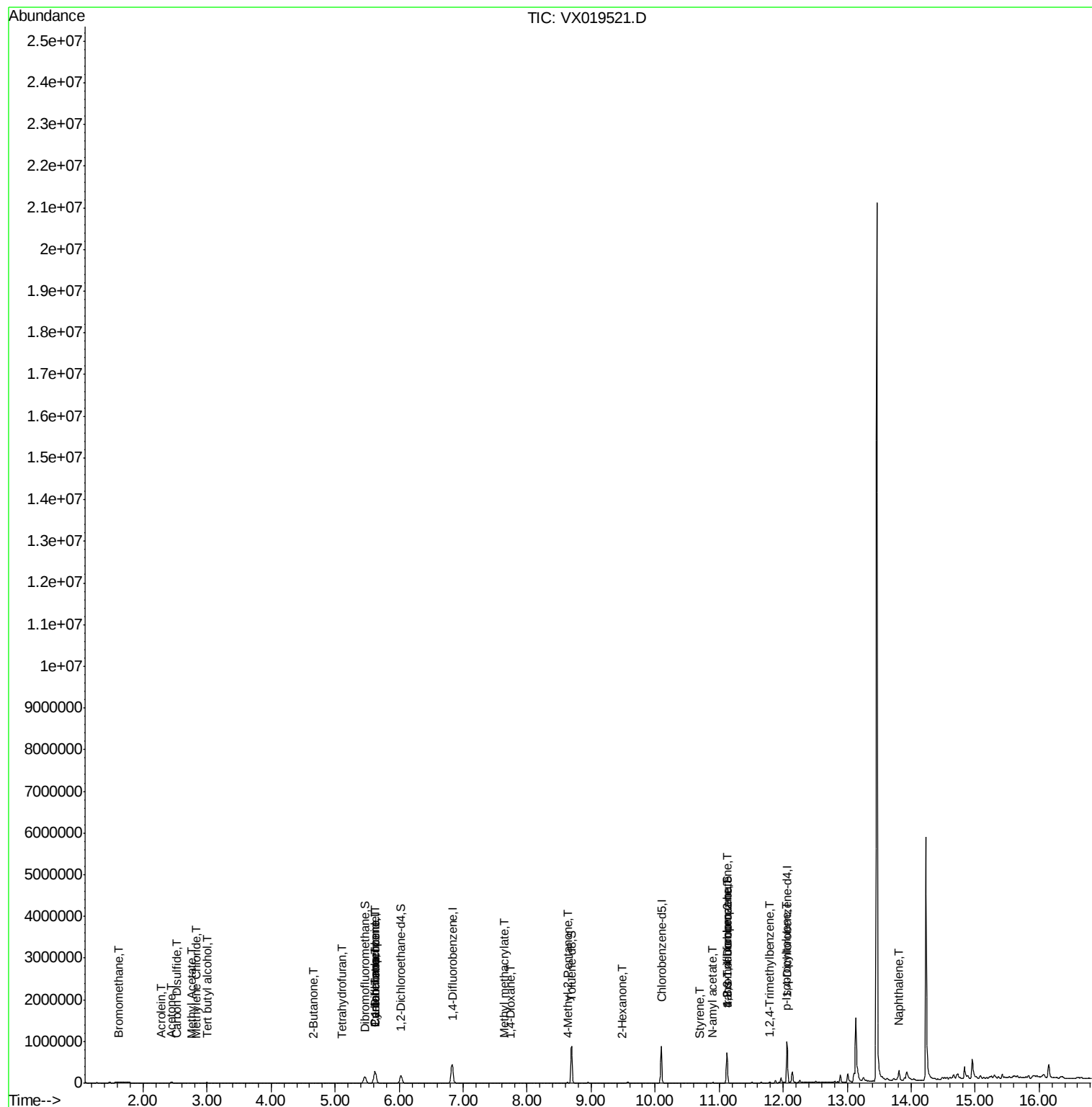
					Qvalue
5) Bromomethane	1.62	94	286	0.223	ug/l 85
6) Chloroethane	1.67	64	160	Below Cal	# 77
11) Tert butyl alcohol	3.00	59	8302	12.007	ug/l # 78
13) Acrolein	2.29	56	260	0.559	ug/l # 55
16) Acetone	2.44	43	22817	16.149	ug/l 96
17) Carbon Disulfide	2.53	76	8427	1.121	ug/l # 94
18) Methyl Acetate	2.76	43	1909	1.179	ug/l 93
20) Methylene Chloride	2.82	84	1898	0.537	ug/l 92
25) 2-Butanone	4.66	43	5386	2.538	ug/l 98
29) Tetrahydrofuran	5.10	42	483	0.357	ug/l # 86
31) Cyclohexane	5.62	56	5968	1.256	ug/l # 1
36) 1,1-Dichloropropene	5.62	75	21988	5.077	ug/l # 49
38) Carbon Tetrachloride	5.62	117	27248	6.500	ug/l # 17
48) Methyl methacrylate	7.63	41	3302	1.032	ug/l # 34
49) 1,4-Dioxane	7.74	88	53	0.729	ug/l # 1
51) 4-Methyl-2-Pentanone	8.63	43	7694	1.931	ug/l 99
59) 2-Hexanone	9.48	43	1185	0.392	ug/l 98
70) Styrene	10.70	104	158	1.662	ug/l # 44
74) N-amyl acetate	10.90	43	2012	0.398	ug/l # 8
76) 1,2,3-Trichloropropane	11.12	75	98916	23.240	ug/l # 38
81) trans-1,4-Dichloro-2-buten	11.12	75	98916	61.688	ug/l # 12
84) 1,2,4-Trimethylbenzene	11.79	105	2860	0.250	ug/l 76
86) p-Isopropyltoluene	12.05	119	6024	0.509	ug/l 92
95) Naphthalene	13.82	128	2146	2.321	ug/l # 83

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

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Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.01 min

Lab File: VX019521.D

Acq: 21 Nov 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

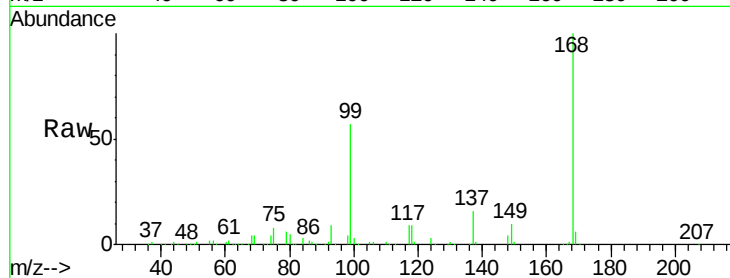
COMP-1605-1607

Tot Ion:168 Resp: 281787

Ion Ratio Lower Upper

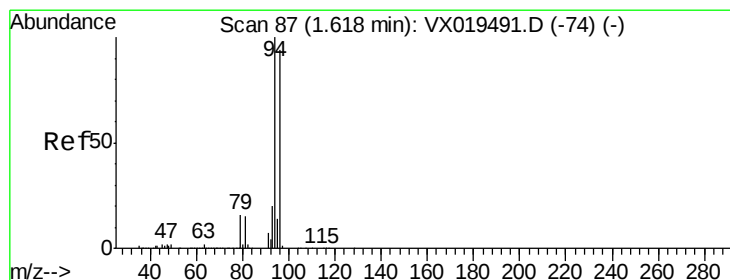
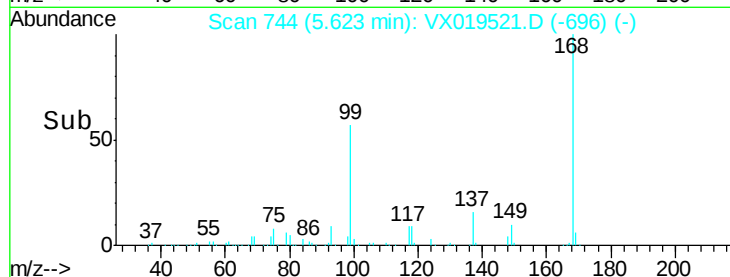
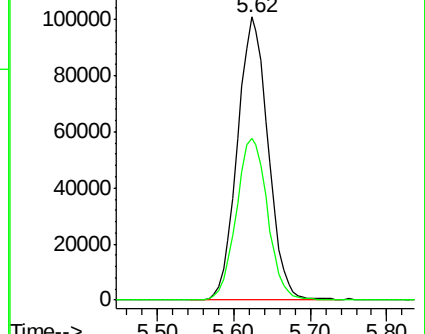
168 100

99 57.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.223 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VX019521.D

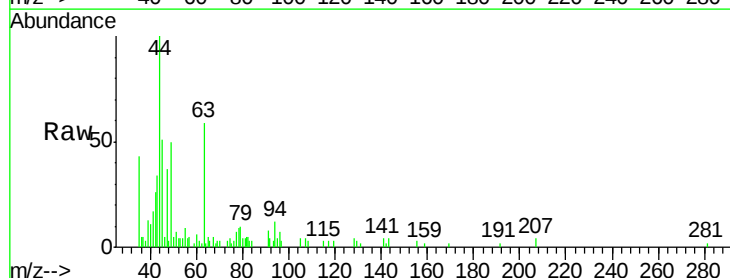
Acq: 21 Nov 2020 02:47

Tgt Ion: 94 Resp: 286

Ion Ratio Lower Upper

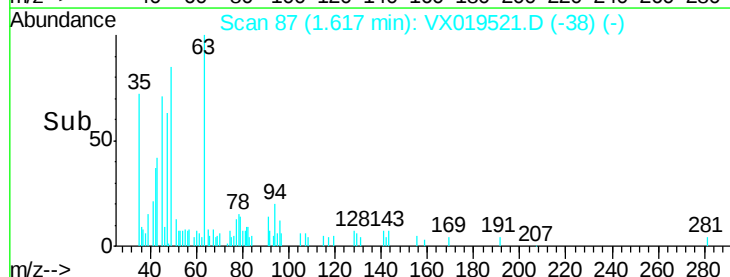
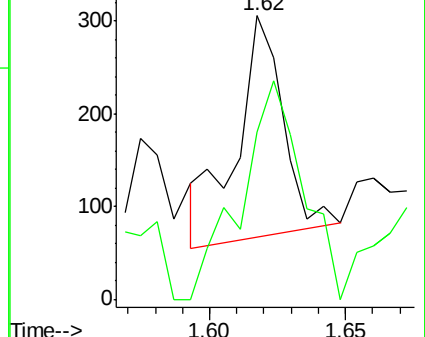
94 100

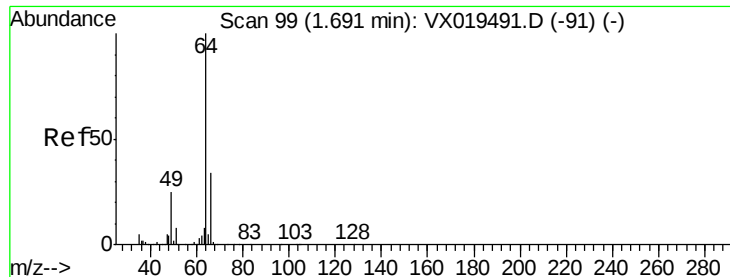
96 80.4 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 96

Delta R.T. -0.02 min

Lab File: VX019521.D

Acq: 21 Nov 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

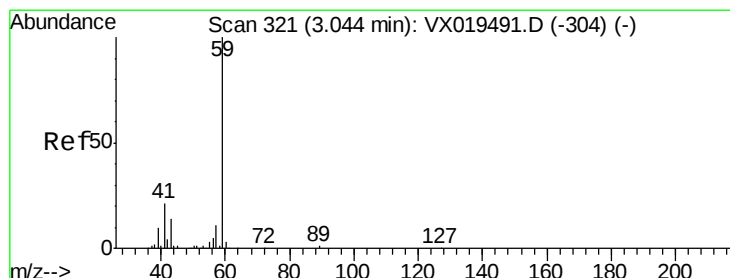
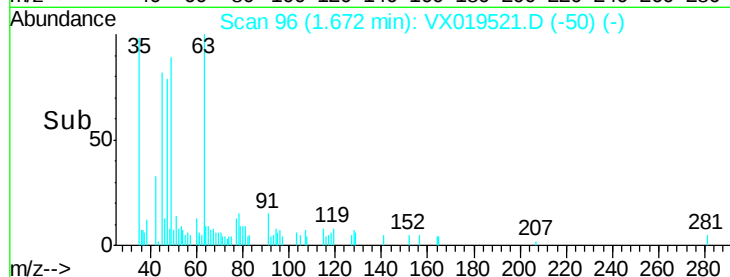
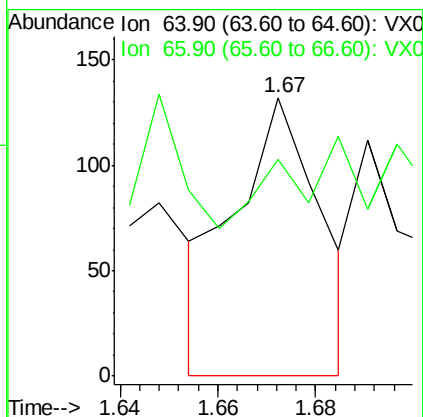
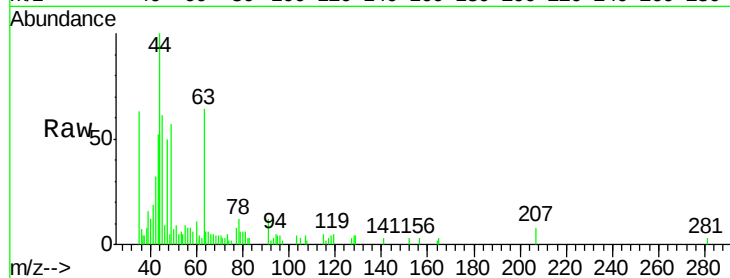
COMP-1605-1607

Tot Ion: 64 Resp: 160

Ion Ratio Lower Upper

64 100

66 20.8 27.1 40.7#



#11

Tert butyl alcohol

Concen: 12.007 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.05 min

Lab File: VX019521.D

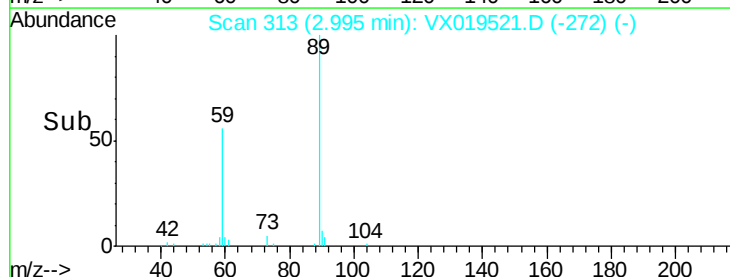
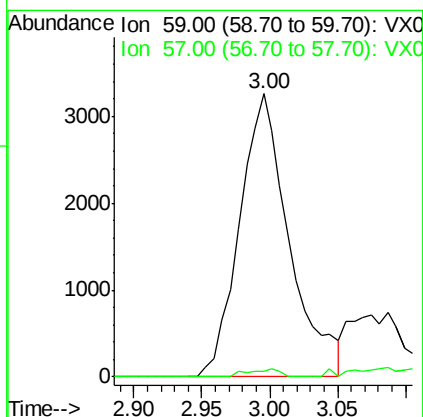
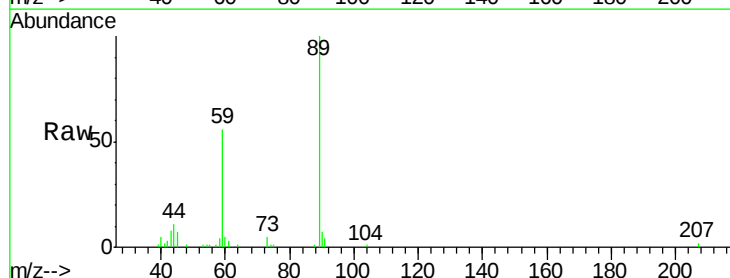
Acq: 21 Nov 2020 02:47

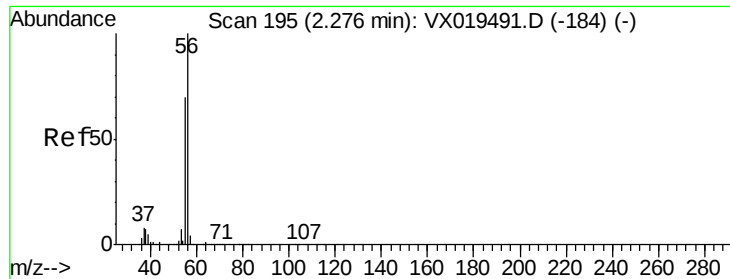
Tgt Ion: 59 Resp: 8302

Ion Ratio Lower Upper

59 100

57 1.7 7.9 11.9#





#13

Acrolein

Concen: 0.559 ug/l

RT: 2.29 min Scan# 197

Delta R.T. 0.01 min

Lab File: VX019521.D

Acq: 21 Nov 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

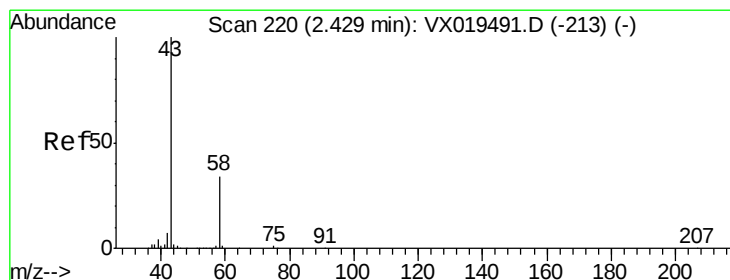
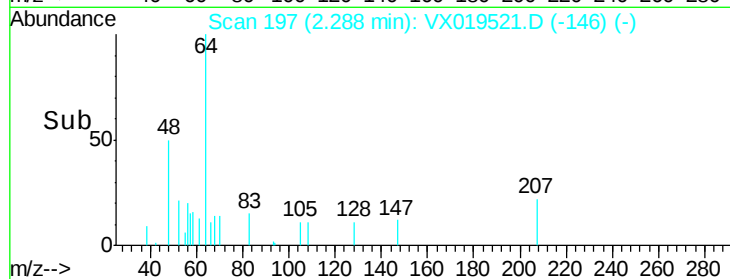
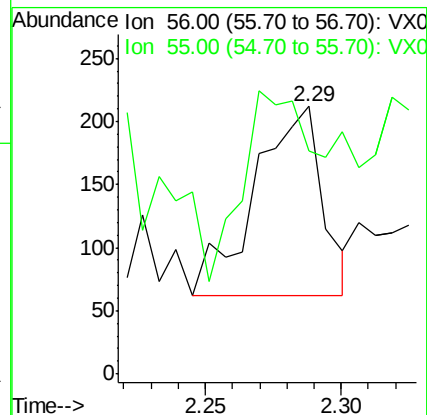
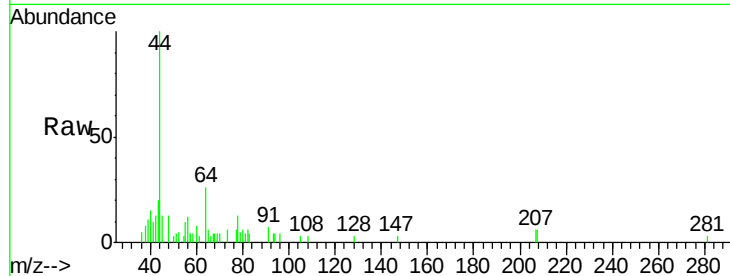
COMP-1605-1607

Tot Ion: 56 Resp: 260

Ion Ratio Lower Upper

56 100

55 105.8 55.5 83.3#



#16

Acetone

Concen: 16.149 ug/l

RT: 2.44 min Scan# 222

Delta R.T. 0.01 min

Lab File: VX019521.D

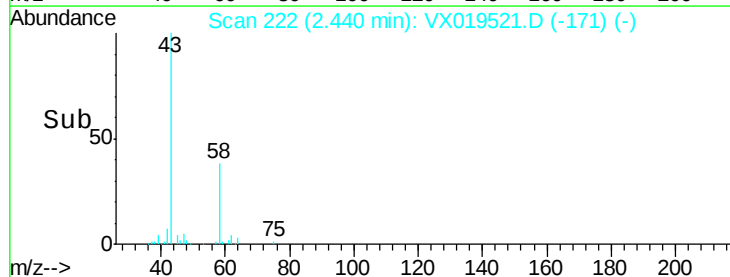
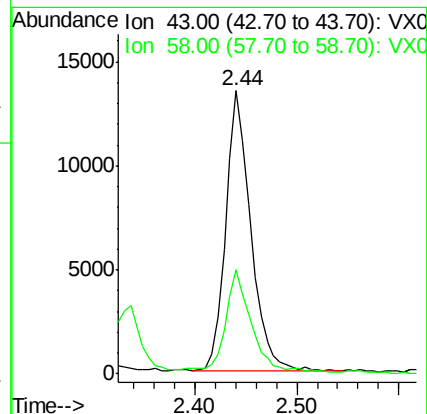
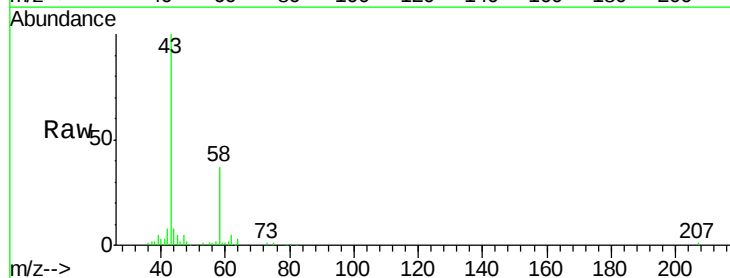
Acq: 21 Nov 2020 02:47

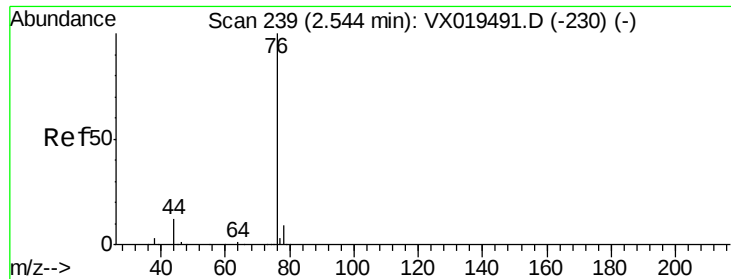
Tgt Ion: 43 Resp: 22817

Ion Ratio Lower Upper

43 100

58 36.4 27.4 41.2

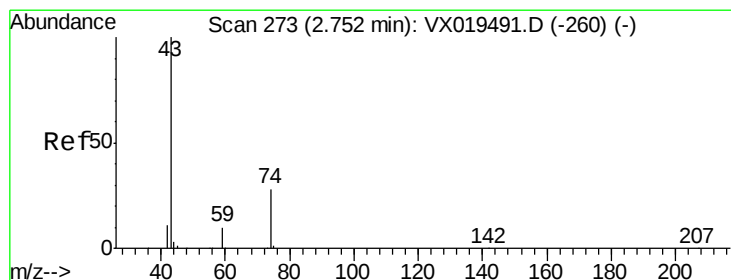
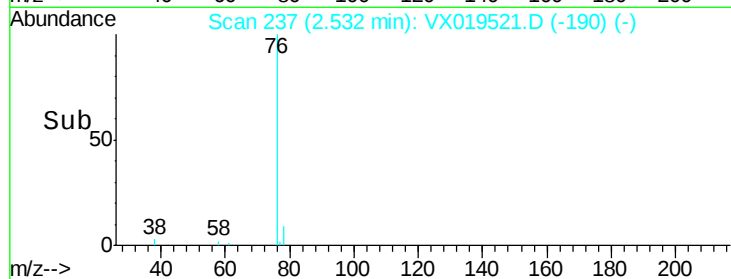
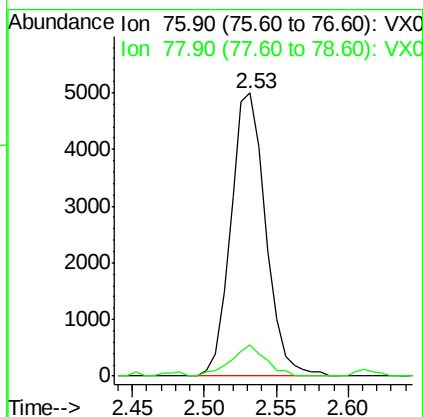
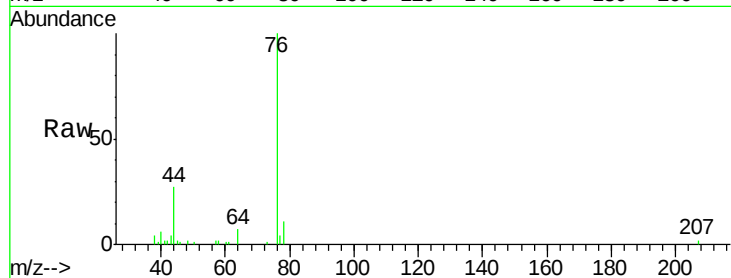




#17
Carbon Disulfide
Concen: 1.121 ug/l
RT: 2.53 min Scan# 237
Delta R.T. -0.01 min
Lab File: VX019521.D
Acq: 21 Nov 2020 02:47

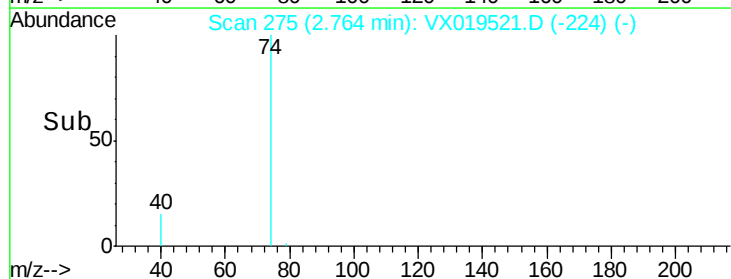
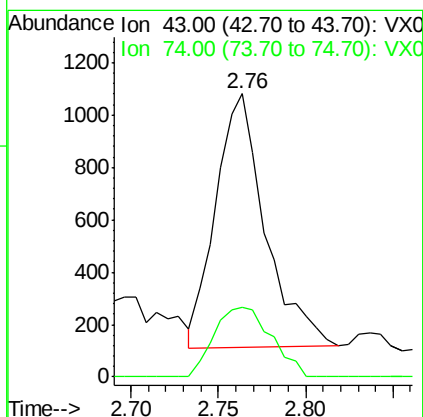
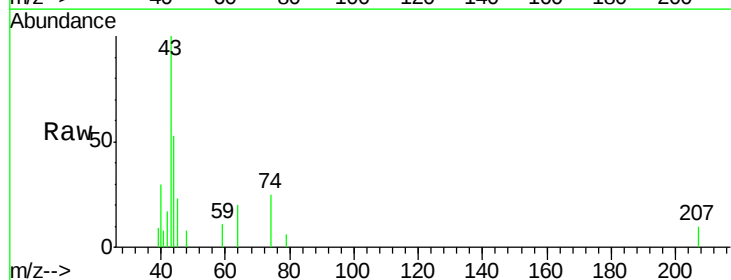
Instrument :
MSVOA_X
ClientSampleId :
COMP-1605-1607

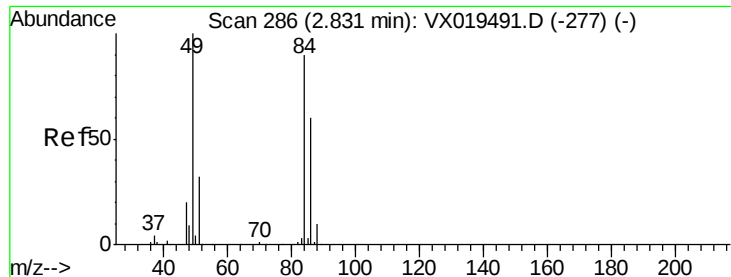
Tot Ion: 76 Resp: 8427
Ion Ratio Lower Upper
76 100
78 11.1 7.2 10.8#



#18
Methyl Acetate
Concen: 1.179 ug/l
RT: 2.76 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX019521.D
Acq: 21 Nov 2020 02:47

Tgt Ion: 43 Resp: 1909
Ion Ratio Lower Upper
43 100
74 31.5 22.2 33.4

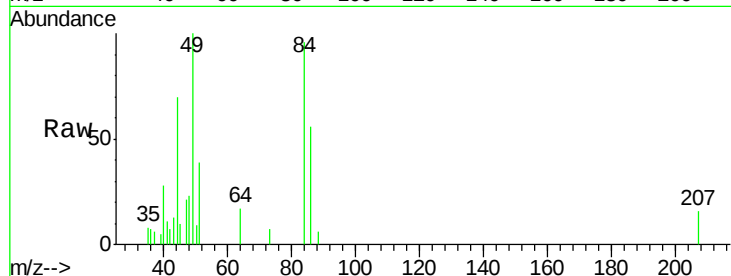




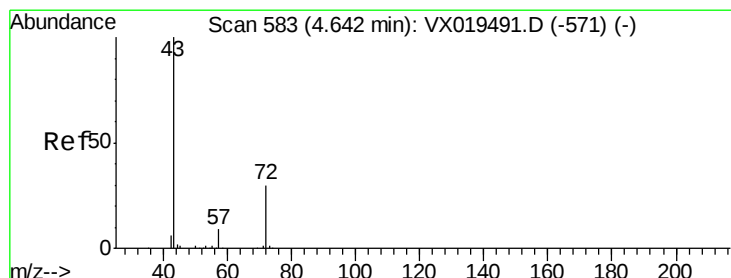
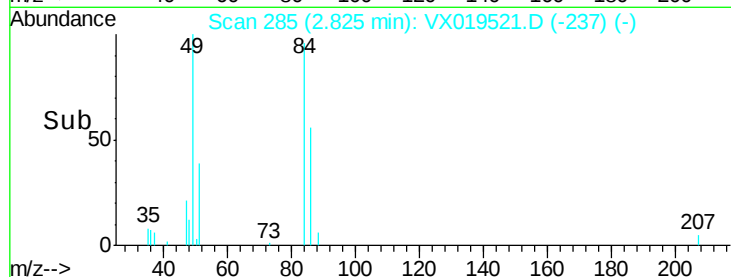
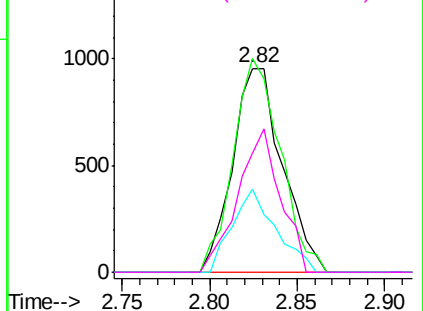
#20
Methvlene Chloride
Concen: 0.537 ug/l
RT: 2.82 min Scan# 285
Delta R.T. -0.01 min
Lab File: VX019521.D
Acq: 21 Nov 2020 02:47

Instrument :
MSVOA_X
ClientSampleId :
COMP-1605-1607

Tot Ion:	84	Resp:	1898
Ion	Ratio	Lower	Upper
84	100		
49	104.6	88.5	132.7
51	40.6	28.0	42.0
86	58.2	53.0	79.4

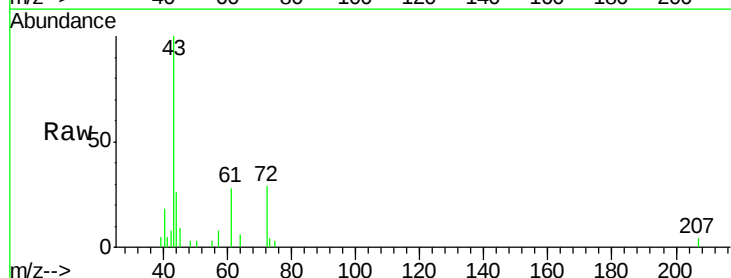


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

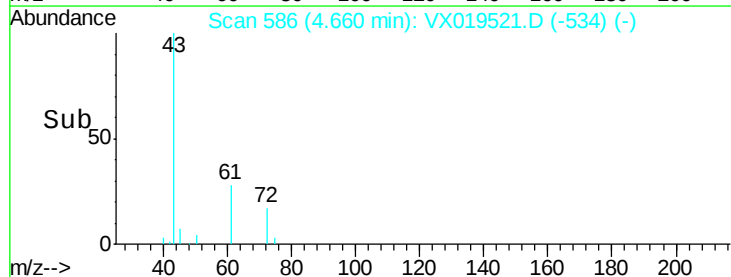
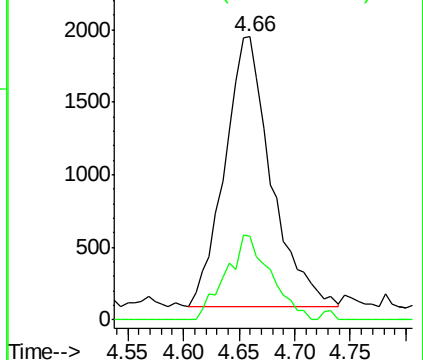


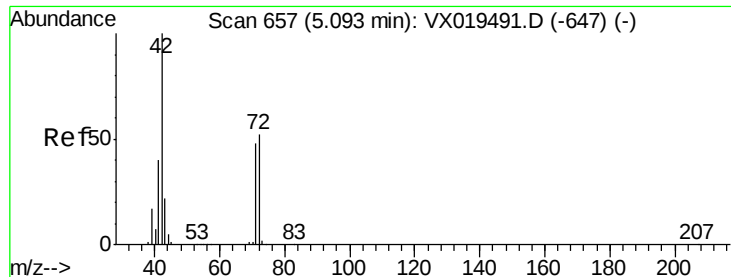
#25
2-Butanone
Concen: 2.538 ug/l
RT: 4.66 min Scan# 586
Delta R.T. 0.02 min
Lab File: VX019521.D
Acq: 21 Nov 2020 02:47

Tgt Ion:	43	Resp:	5386
Ion	Ratio	Lower	Upper
43	100		
72	30.9	24.0	36.0



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

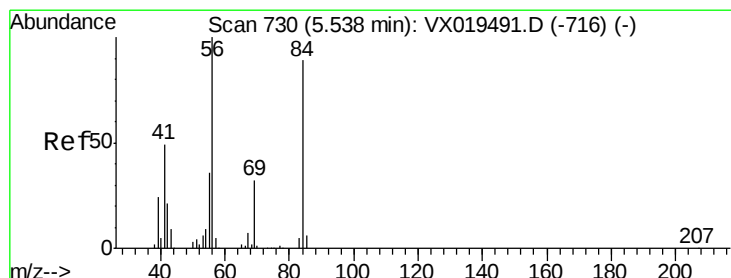
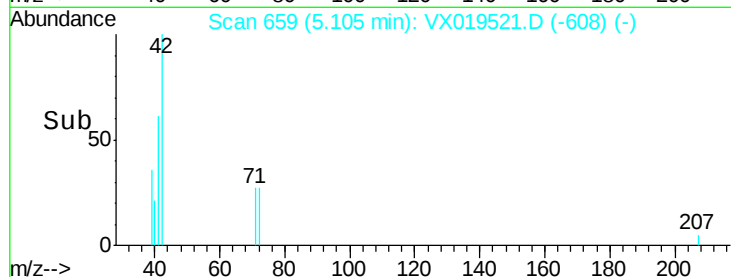
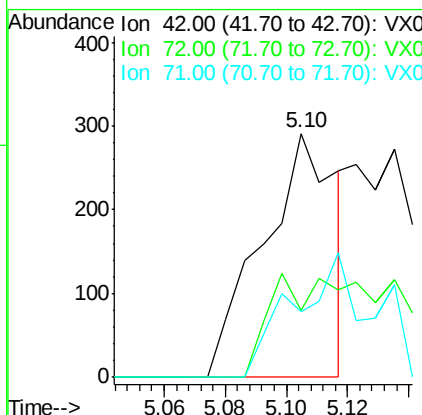
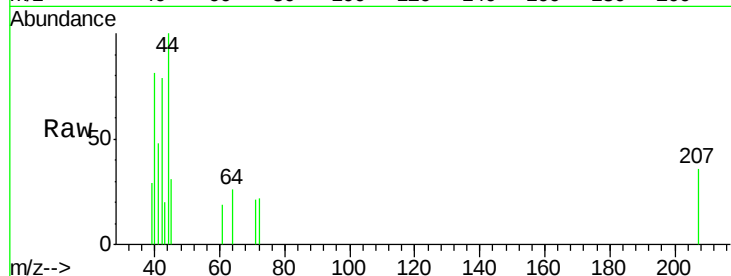




#29
Tetrahydrofuran
Concen: 0.357 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX019521.D
Acq: 21 Nov 2020 02:47

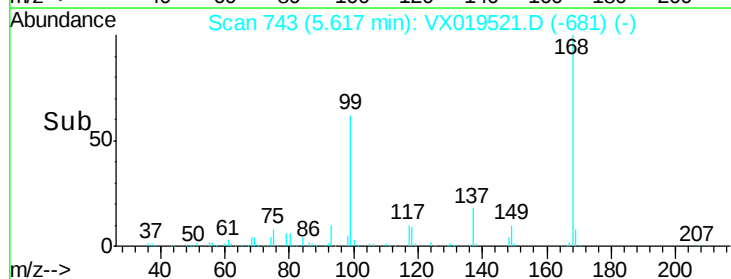
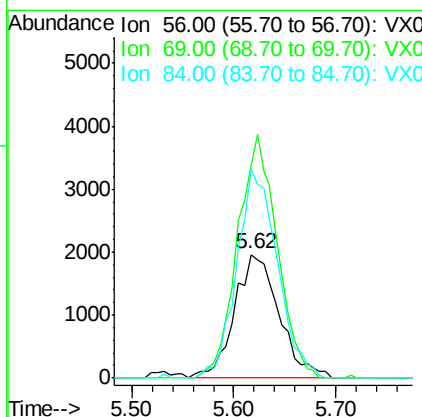
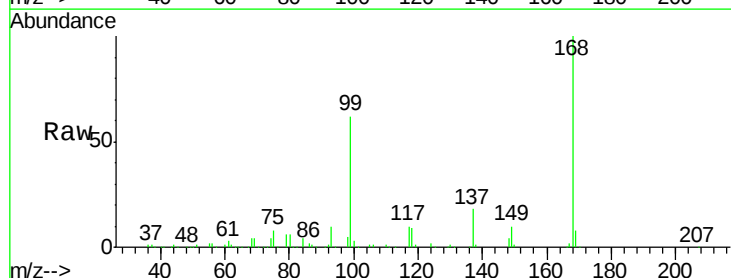
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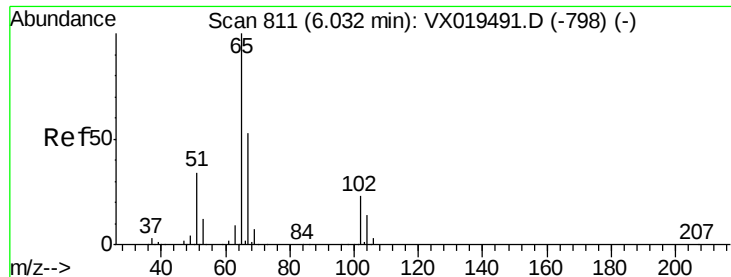
Tot Ion: 42 Resp: 483
Ion Ratio Lower Upper
42 100
72 67.5 42.6 63.8#
71 54.5 39.0 58.6



#31
Cyclohexane
Concen: 1.256 ug/l
RT: 5.62 min Scan# 743
Delta R.T. 0.08 min
Lab File: VX019521.D
Acq: 21 Nov 2020 02:47

Tgt Ion: 56 Resp: 5968
Ion Ratio Lower Upper
56 100
69 171.7 25.5 38.3#
84 169.3 71.1 106.7#





#33

1,2-Dichloroethane-d4

Concen: 47.448 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019521.D

Acq: 21 Nov 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

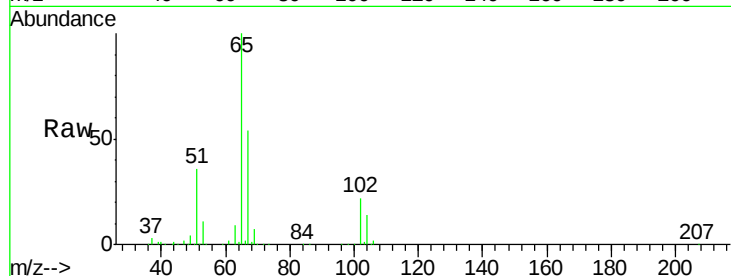
COMP-1605-1607

Tot Ion: 65 Resp: 173358

Ion Ratio Lower Upper

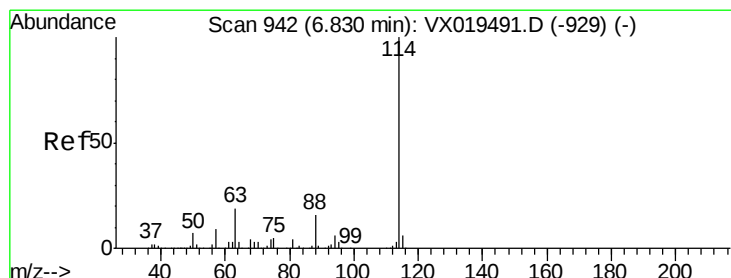
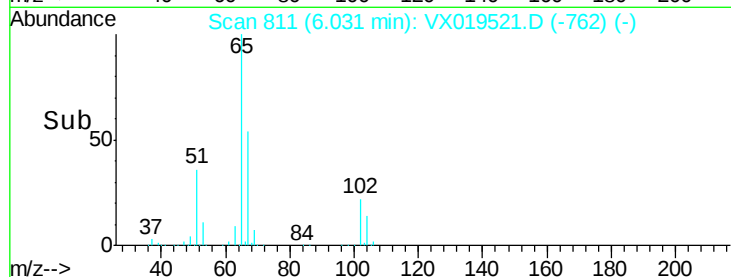
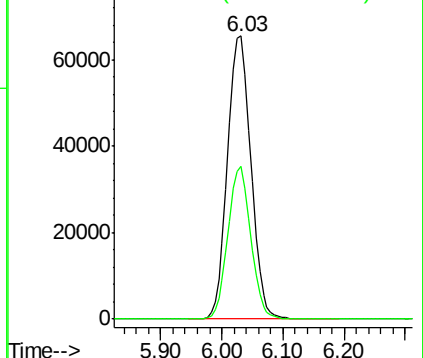
65 100

67 52.4 0.0 105.0



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: VX019521.D

Acq: 21 Nov 2020 02:47

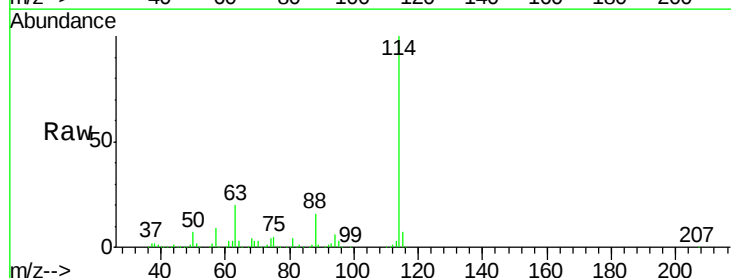
Tgt Ion: 114 Resp: 461953

Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.8

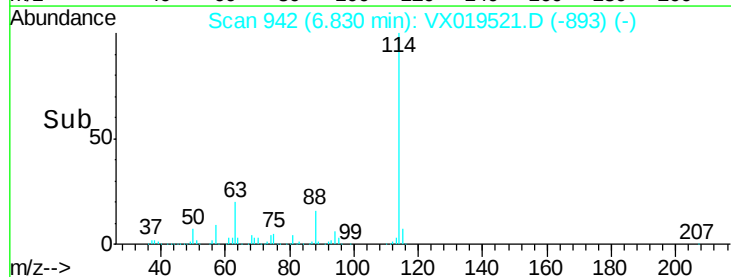
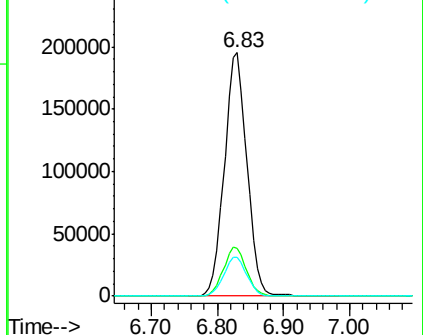
88 15.9 0.0 31.6

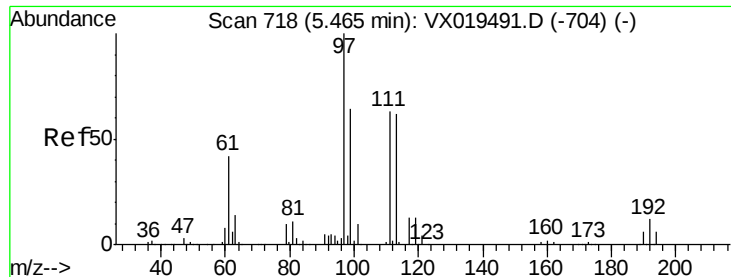


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

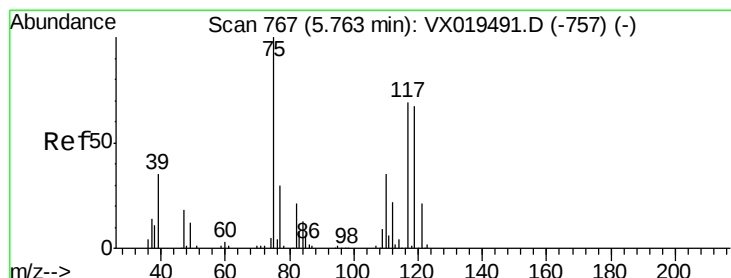
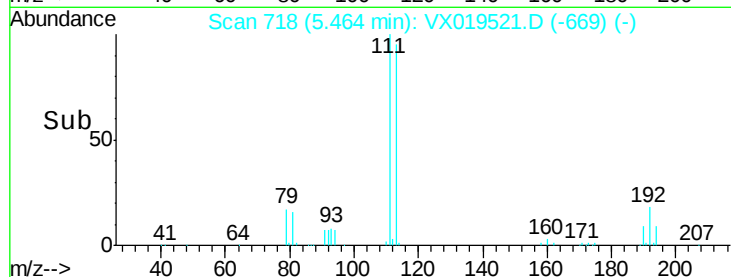
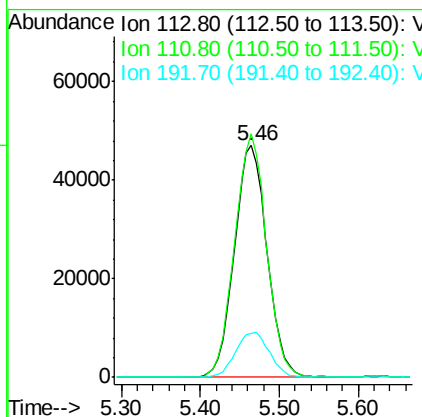
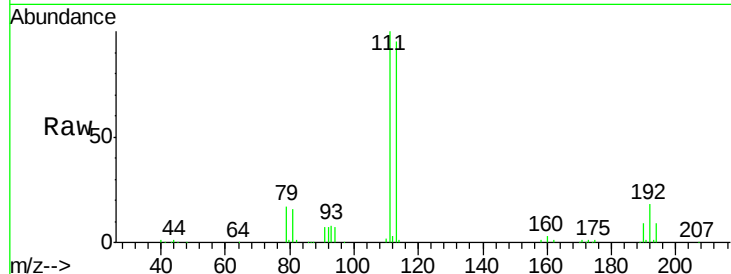




#35
Dibromofluoromethane
Concen: 46.758 ug/l
RT: 5.46 min Scan# 718
Delta R.T. -0.00 min
Lab File: VX019521.D
Acq: 21 Nov 2020 02:47

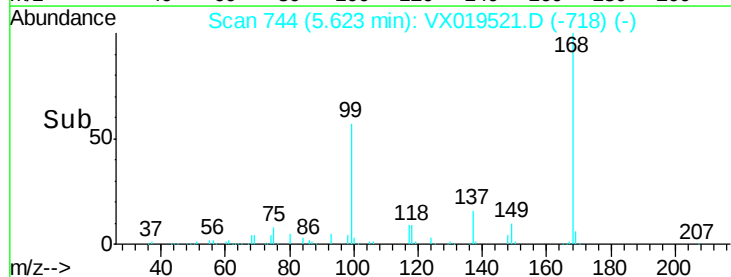
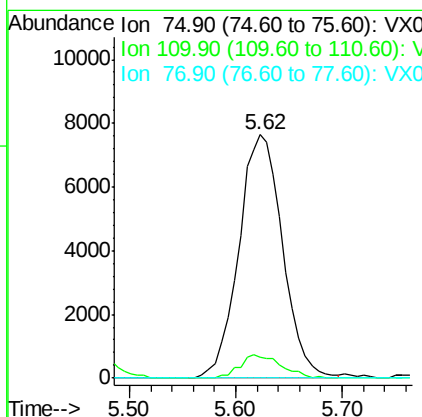
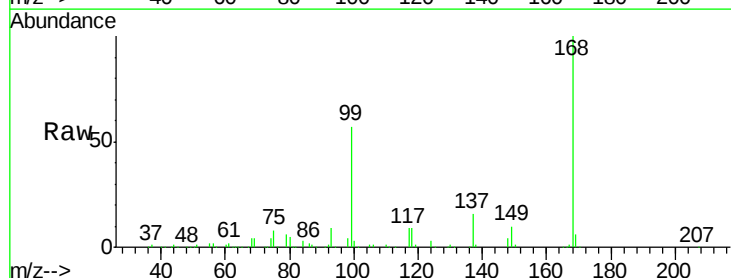
Instrument :
MSVOA_X
ClientSampleId :
COMP-1605-1607

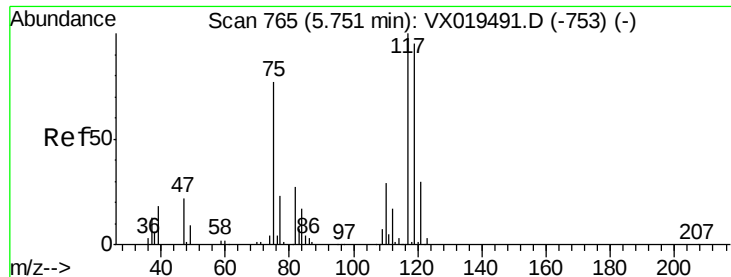
Tot Ion:113 Resp: 135582
Ion Ratio Lower Upper
113 100
111 102.2 81.5 122.3
192 20.1 16.2 24.2



#36
1,1-Dichloropropene
Concen: 5.077 ug/l
RT: 5.62 min Scan# 744
Delta R.T. -0.14 min
Lab File: VX019521.D
Acq: 21 Nov 2020 02:47

Tgt Ion: 75 Resp: 21988
Ion Ratio Lower Upper
75 100
110 8.9 18.1 54.3#
77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 6.500 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019521.D

Acq: 21 Nov 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

COMP-1605-1607

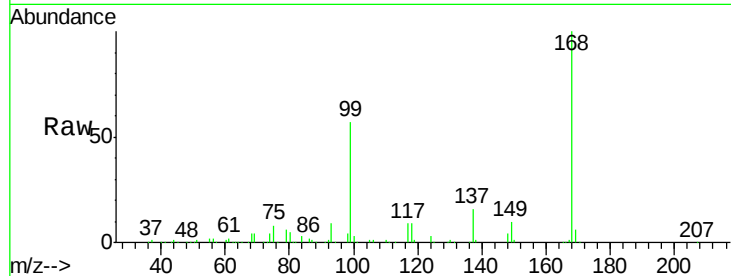
Tot Ion:117 Resp: 27248

Ion Ratio Lower Upper

117 100

119 5.7 75.9 113.9#

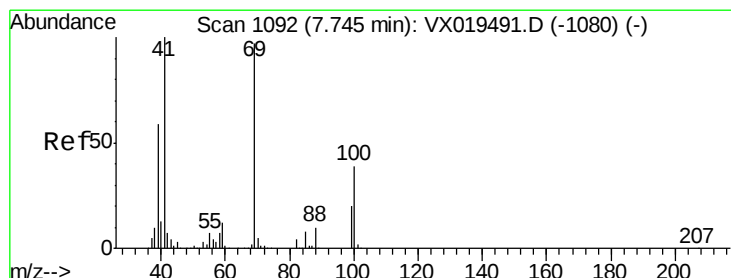
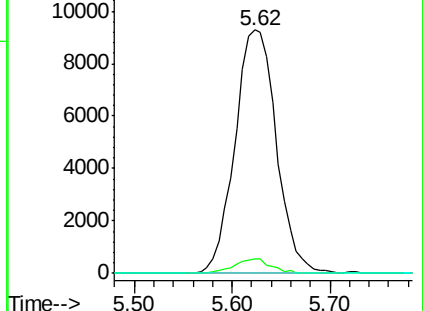
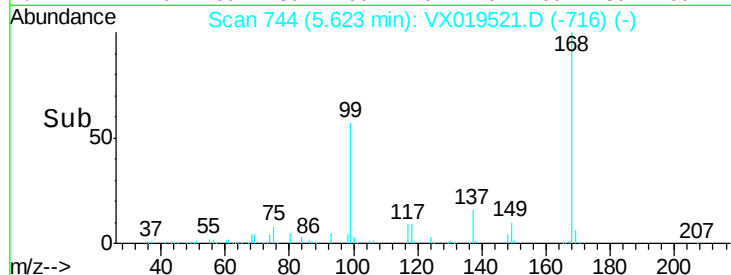
121 0.0 24.0 36.0#



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



#48

Methyl methacrylate

Concen: 1.032 ug/l

RT: 7.63 min Scan# 1074

Delta R.T. -0.11 min

Lab File: VX019521.D

Acq: 21 Nov 2020 02:47

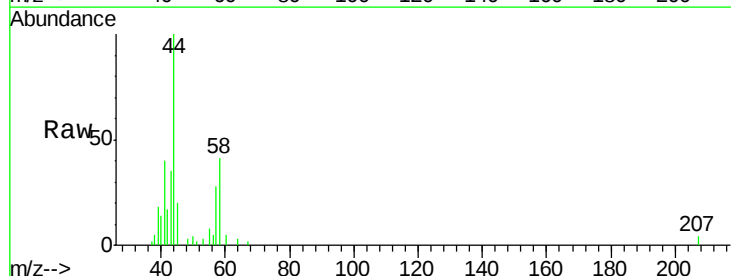
Tgt Ion: 41 Resp: 3302

Ion Ratio Lower Upper

41 100

69 0.0 77.0 115.6#

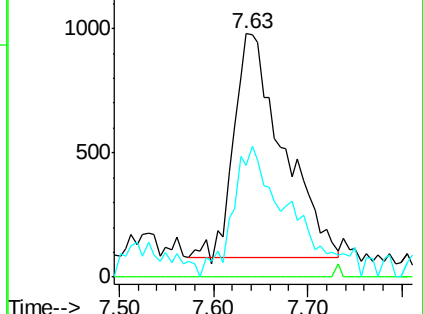
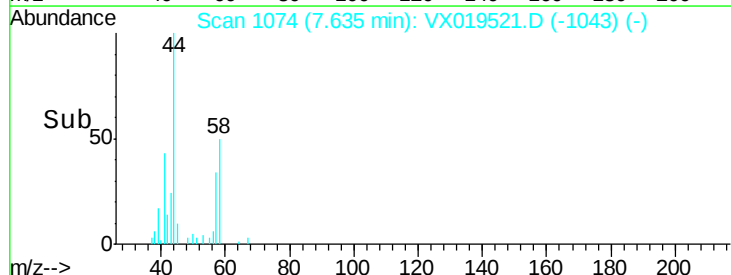
39 64.5 45.6 68.4

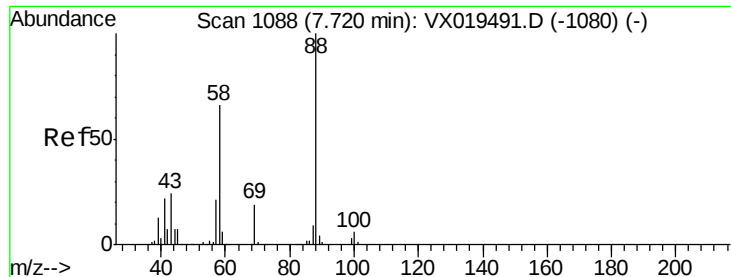


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

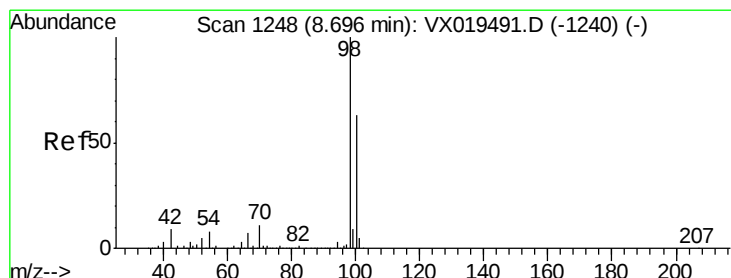
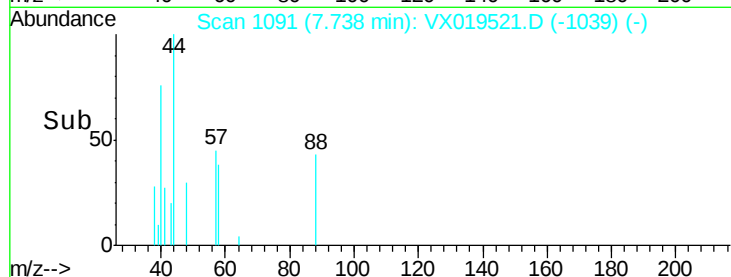
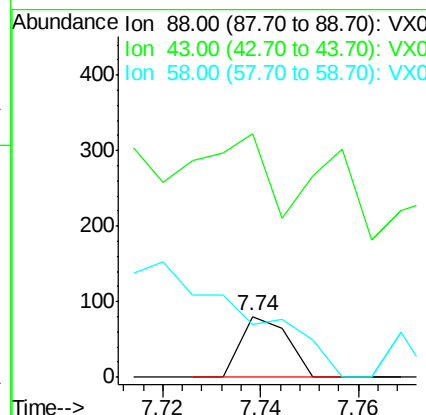
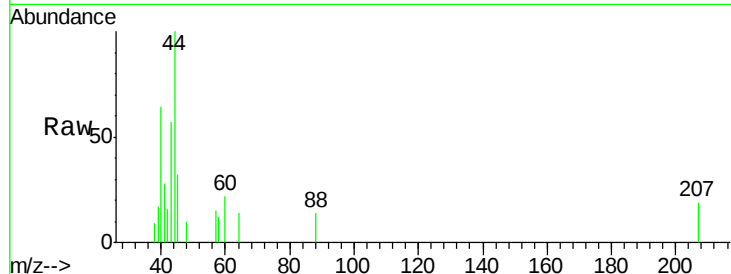




#49
1,4-Dioxane
Concen: 0.729 ug/l
RT: 7.74 min Scan# 1091
Delta R.T. 0.02 min
Lab File: VX019521.D
Acq: 21 Nov 2020 02:47

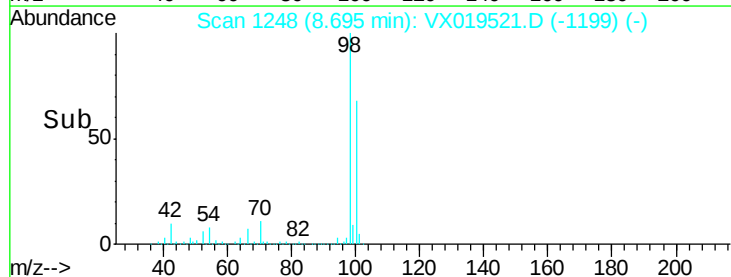
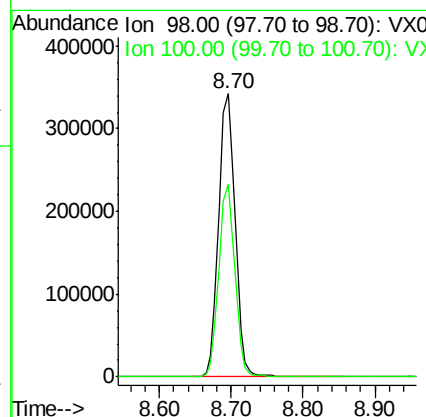
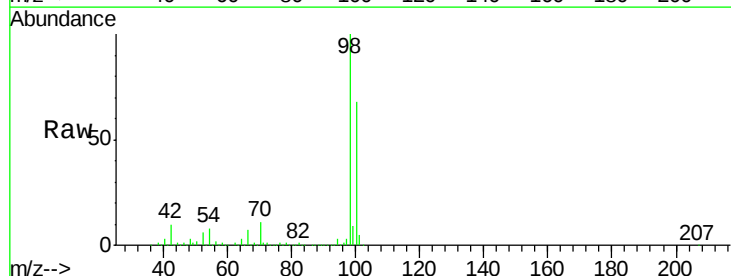
Instrument :
MSVOA_X
ClientSampleId :
COMP-1605-1607

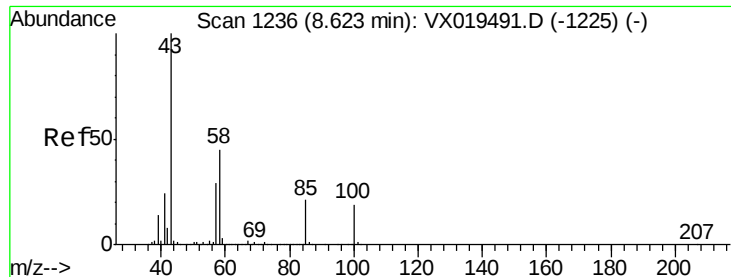
Tot Ion: 88 Resp: 53
Ion Ratio Lower Upper
88 100
43 186.8 23.8 35.6#
58 0.0 54.2 81.2#



#50
Toluene-d8
Concen: 48.407 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019521.D
Acq: 21 Nov 2020 02:47

Tgt Ion: 98 Resp: 545443
Ion Ratio Lower Upper
98 100
100 66.4 52.4 78.6

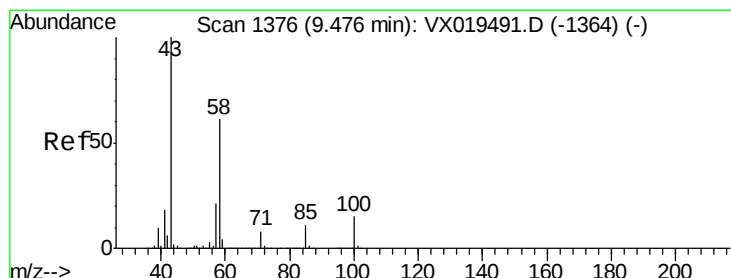
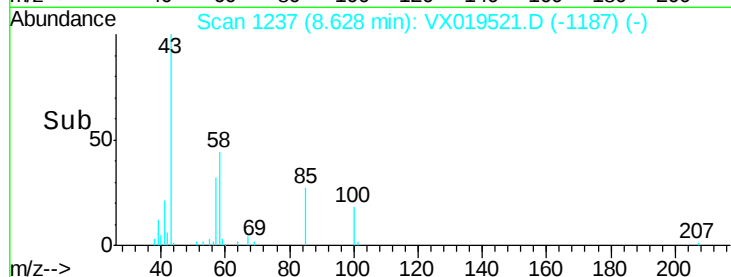
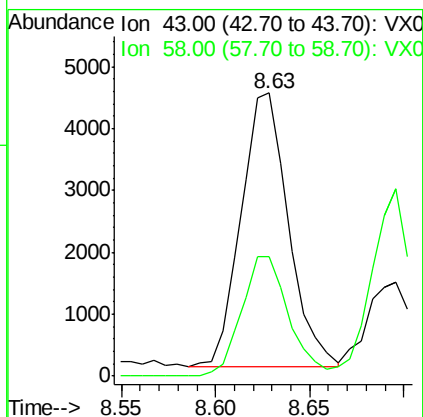
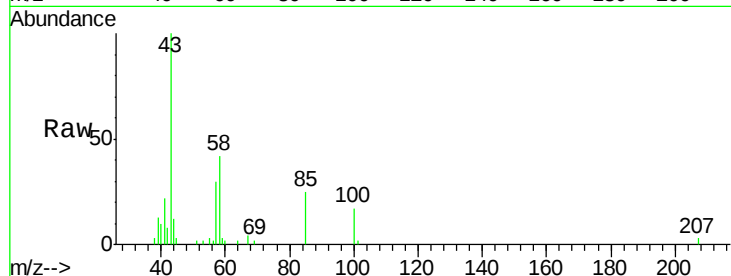




#51
 4-Methyl-2-Pentanone
 Concen: 1.931 ug/l
 RT: 8.63 min Scan# 1237
 Delta R.T. 0.01 min
 Lab File: VX019521.D
 Acq: 21 Nov 2020 02:47

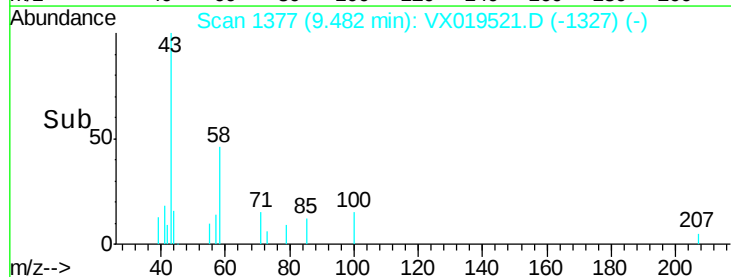
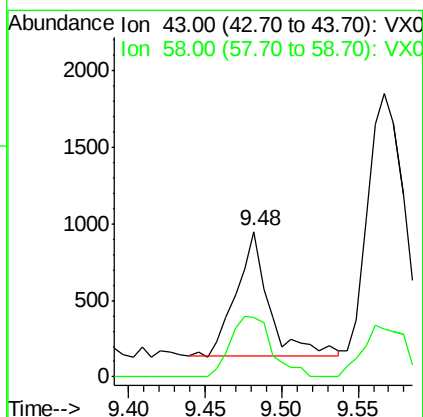
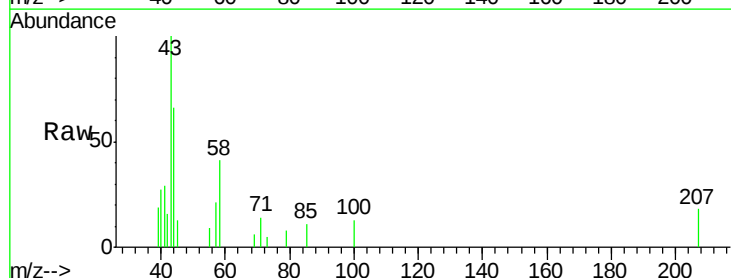
Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-1605-1607

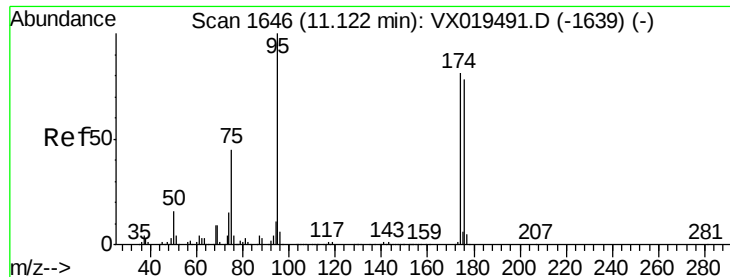
Tot Ion: 43 Resp: 7694
 Ion Ratio Lower Upper
 43 100
 58 43.4 35.1 52.7



#59
 2-Hexanone
 Concen: 0.392 ug/l
 RT: 9.48 min Scan# 1377
 Delta R.T. 0.01 min
 Lab File: VX019521.D
 Acq: 21 Nov 2020 02:47

Tgt Ion: 43 Resp: 1185
 Ion Ratio Lower Upper
 43 100
 58 62.6 30.6 91.6





#62

4-Bromofluorobenzene

Concen: 48.535 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019521.D

Acq: 21 Nov 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

COMP-1605-1607

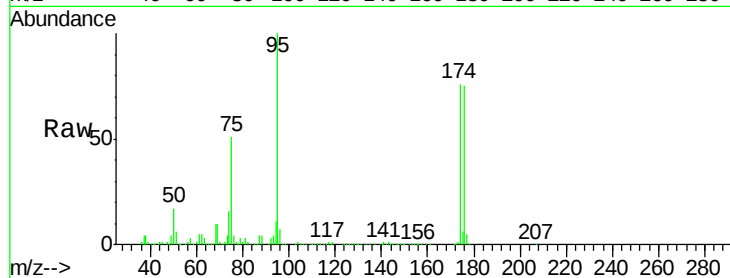
Tot Ion: 95 Resp: 196760

Ion Ratio Lower Upper

95 100

174 74.7 0.0 156.2

176 74.1 0.0 151.4

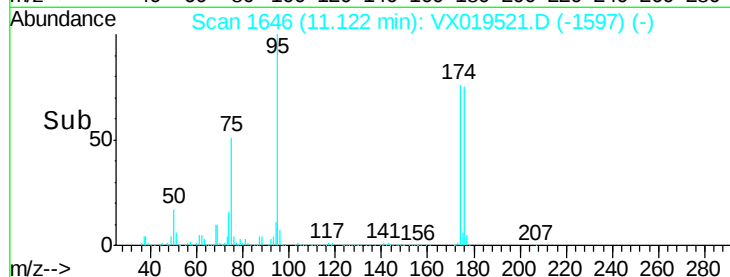


Abundance Ion 94.90 (94.60 to 95.60): VX019491.D (-1639) (-)

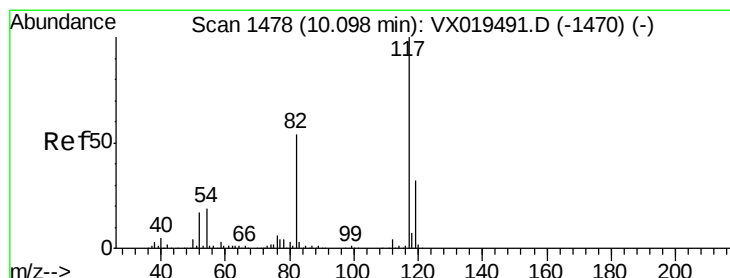
Ion 173.80 (173.50 to 174.50): VX019491.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX019491.D (-1639) (-)

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019521.D

Acq: 21 Nov 2020 02:47

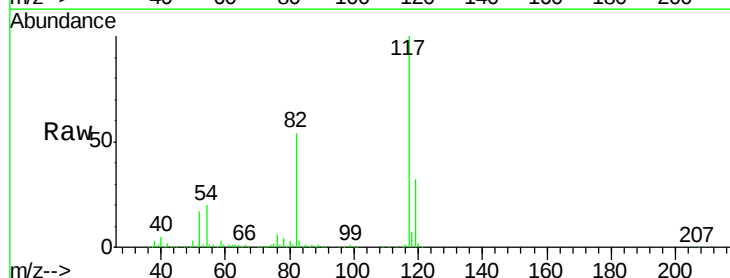
Tgt Ion: 117 Resp: 405771

Ion Ratio Lower Upper

117 100

82 54.3 43.0 64.4

119 31.5 25.6 38.4

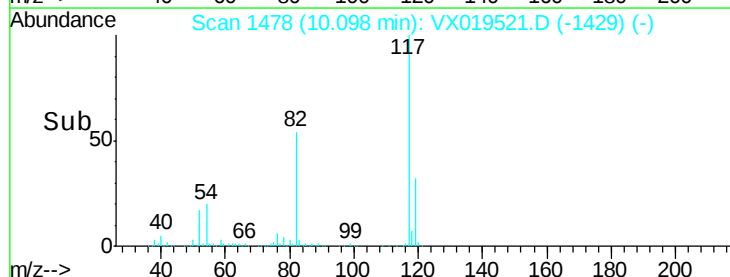


Abundance Ion 116.90 (116.60 to 117.60): VX019491.D (-1470) (-)

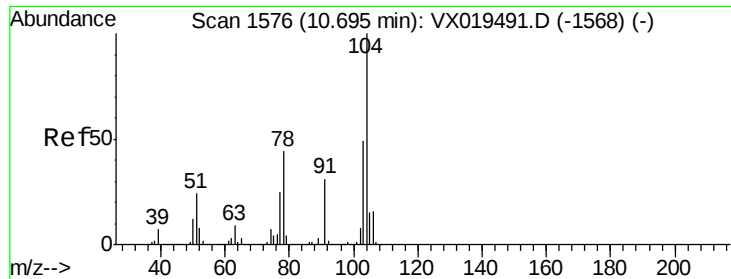
Ion 82.00 (81.70 to 82.70): VX019491.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX019491.D (-1470) (-)

Time-->



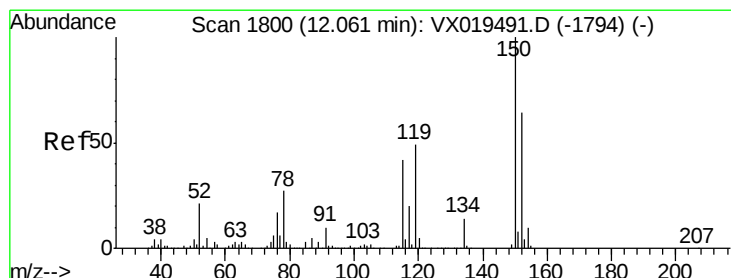
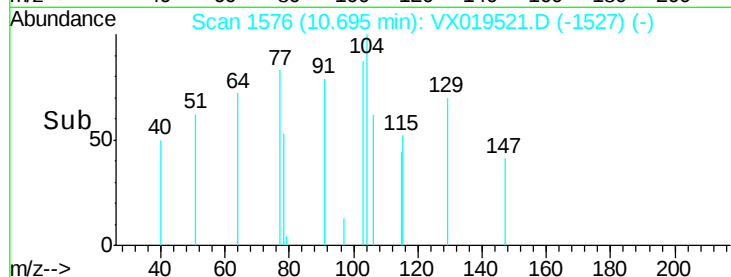
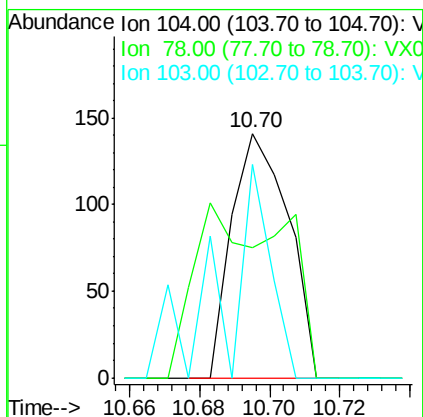
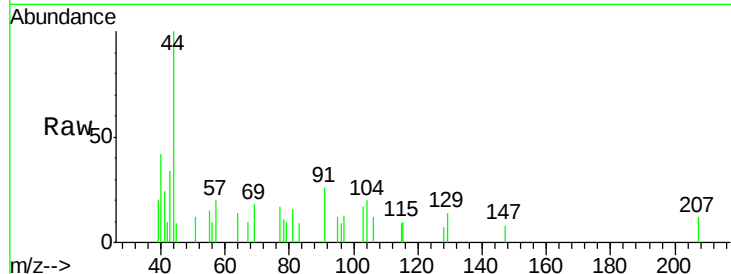
Time-->



#70
Stvrene
Concen: 1.662 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019521.D
Acq: 21 Nov 2020 02:47

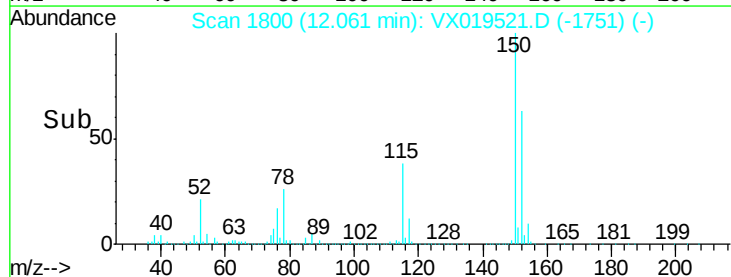
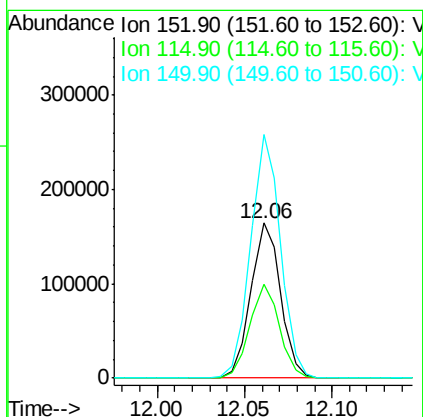
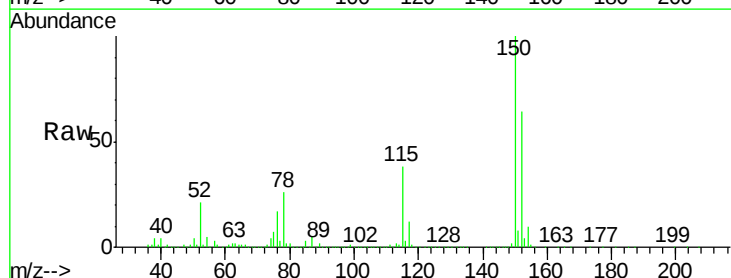
Instrument :
MSVOA_X
ClientSampleId :
COMP-1605-1607

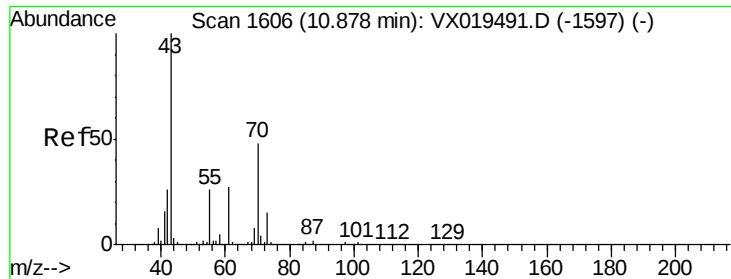
Tot Ion:104 Resp: 158
Ion Ratio Lower Upper
104 100
78 111.4 39.5 59.3#
103 72.8 43.6 65.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019521.D
Acq: 21 Nov 2020 02:47

Tgt Ion:152 Resp: 195035
Ion Ratio Lower Upper
152 100
115 60.2 41.8 125.4
150 157.1 0.0 348.2





#74

N-amvl acetate

Concen: 0.398 ug/l

RT: 10.90 min Scan# 1609

Delta R.T. 0.02 min

Lab File: VX019521.D

Acq: 21 Nov 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

COMP-1605-1607

Tot Ion: 43 Resp: 2012

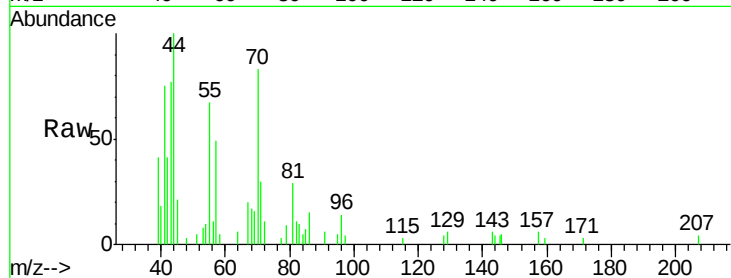
Ion Ratio Lower Upper

43 100

70 111.8 39.7 59.5#

55 96.4 21.8 32.6#

61 0.0 22.2 33.4#

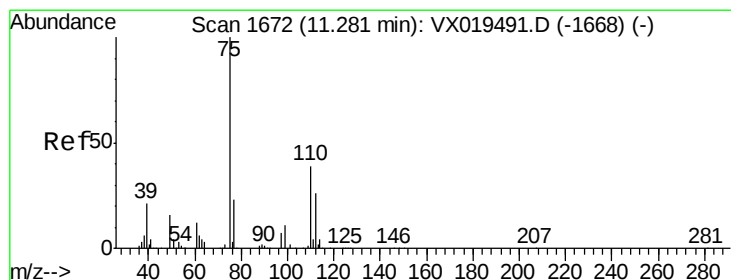
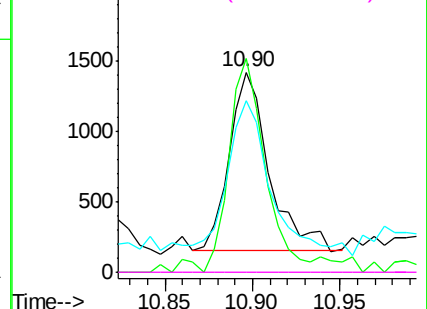
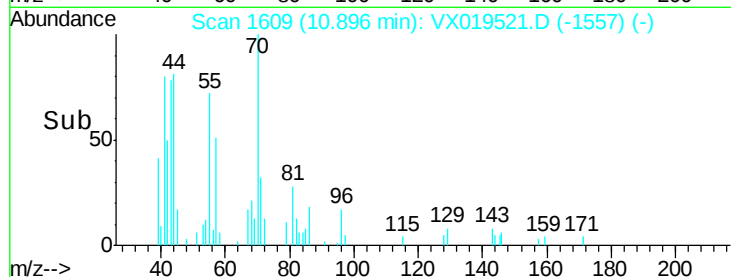


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.240 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019521.D

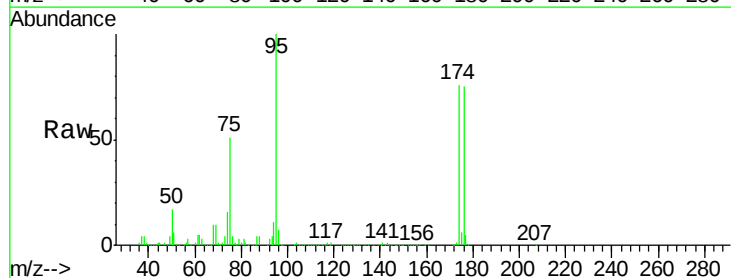
Acq: 21 Nov 2020 02:47

Tgt Ion: 75 Resp: 98916

Ion Ratio Lower Upper

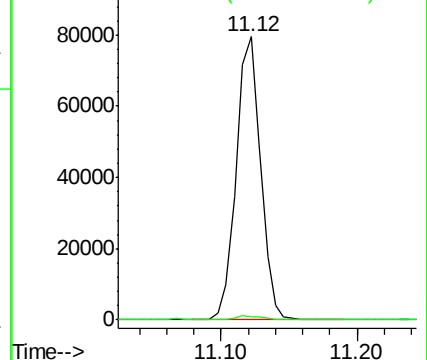
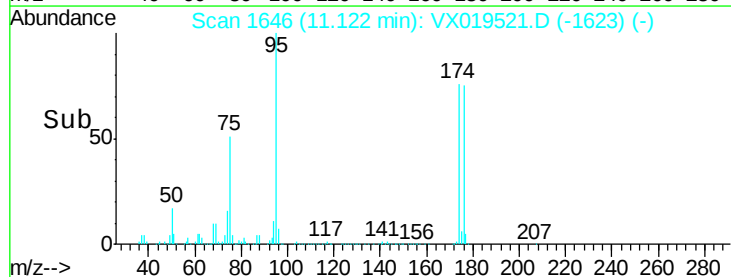
75 100

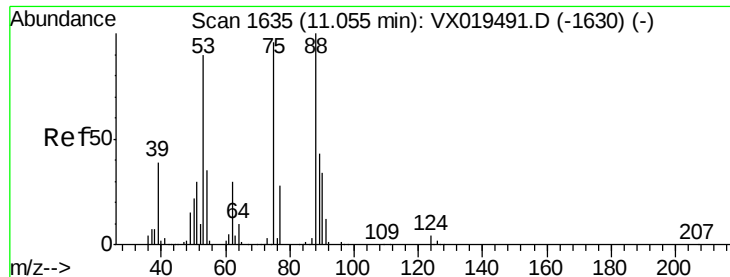
77 1.5 20.0 60.0#



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: 61.688 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019521.D

Acq: 21 Nov 2020 02:47

Instrument :

MSVOA_X

ClientSampleId :

COMP-1605-1607

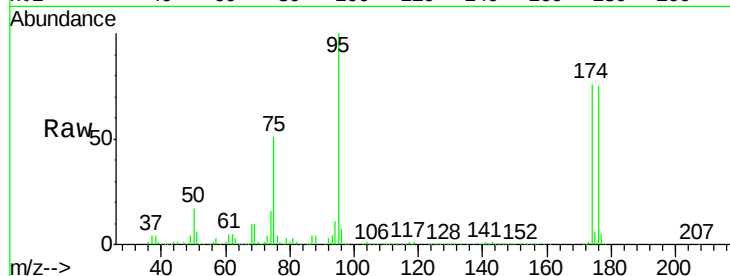
Tot Ion: 75 Resp: 98916

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

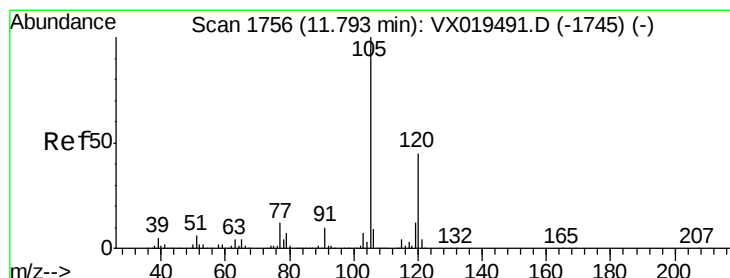
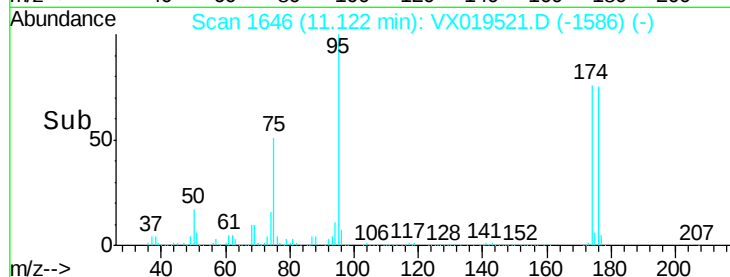
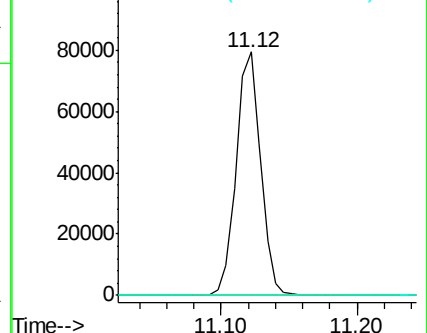
89 0.0 37.3 55.9#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.250 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX019521.D

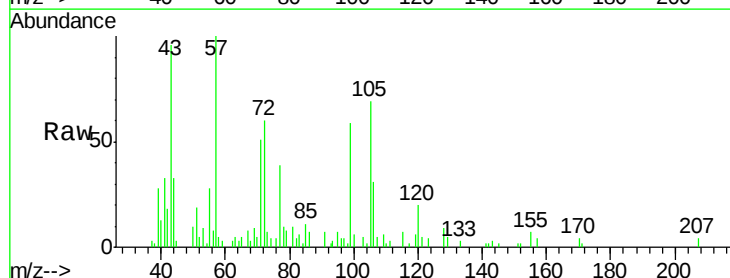
Acq: 21 Nov 2020 02:47

Tgt Ion: 105 Resp: 2860

Ion Ratio Lower Upper

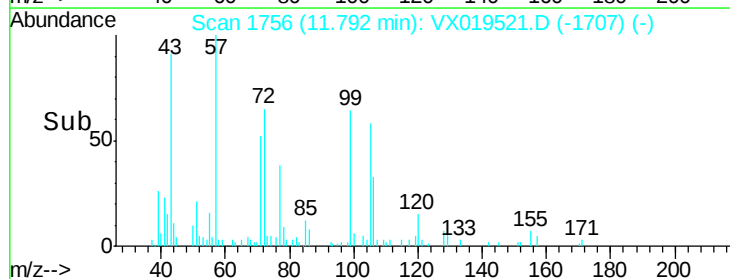
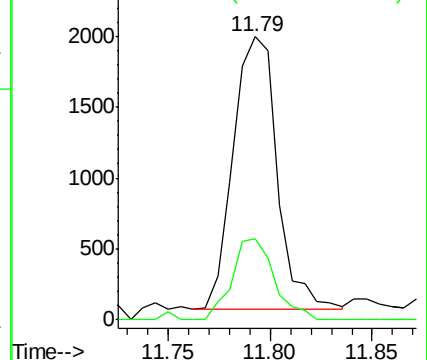
105 100

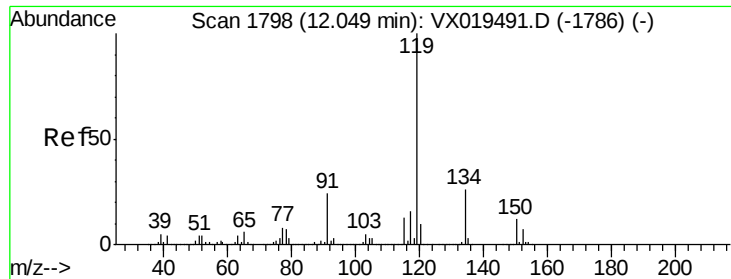
120 28.7 22.2 66.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

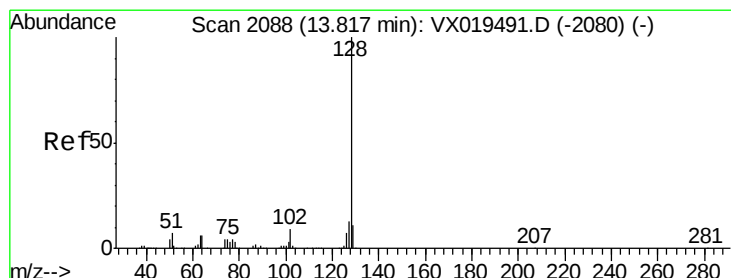
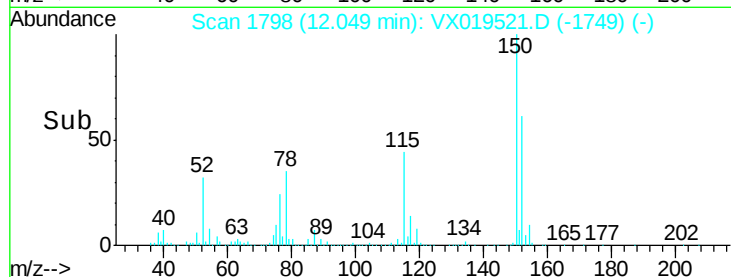
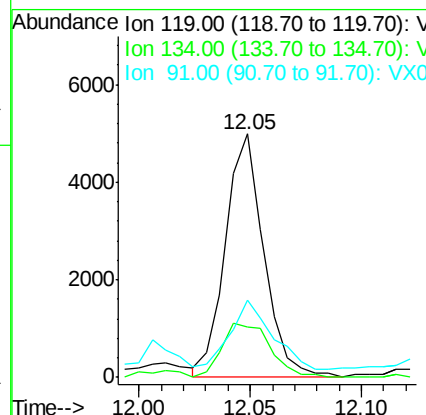
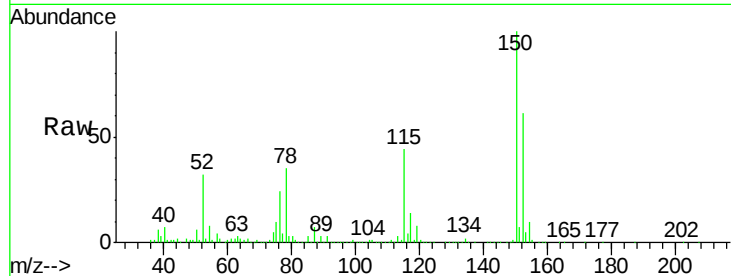




#86
p-Isopropyltoluene
Concen: 0.509 ug/l
RT: 12.05 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VX019521.D
Acq: 21 Nov 2020 02:47

Instrument :
MSVOA_X
ClientSampleId :
COMP-1605-1607

Tot Ion:119 Resp: 6024
Ion Ratio Lower Upper
119 100
134 27.7 13.1 39.3
91 30.7 11.8 35.4



#95
Naphthalene
Concen: 2.321 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019521.D
Acq: 21 Nov 2020 02:47

Tgt Ion:128 Resp: 2146
Ion Ratio Lower Upper
128 100
127 21.1 10.3 15.5#
129 15.4 8.7 13.1#

