

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112320\
 Data File : VX019588.D
 Acq On : 24 Nov 2020 06:38
 Operator : JC/MD
 Sample : L4848-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR5-4-TOP

Quant Time: Nov 24 07:11:24 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	5.63	168	317433	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	517524	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	455702	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	193421	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	195012	47.38	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.76%
35) Dibromofluoromethane	5.46	113	153351	47.21	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.42%
50) Toluene-d8	8.70	98	617596	48.92	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.84%
62) 4-Bromofluorobenzene	11.12	95	209578	46.15	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.30%

Target Compounds

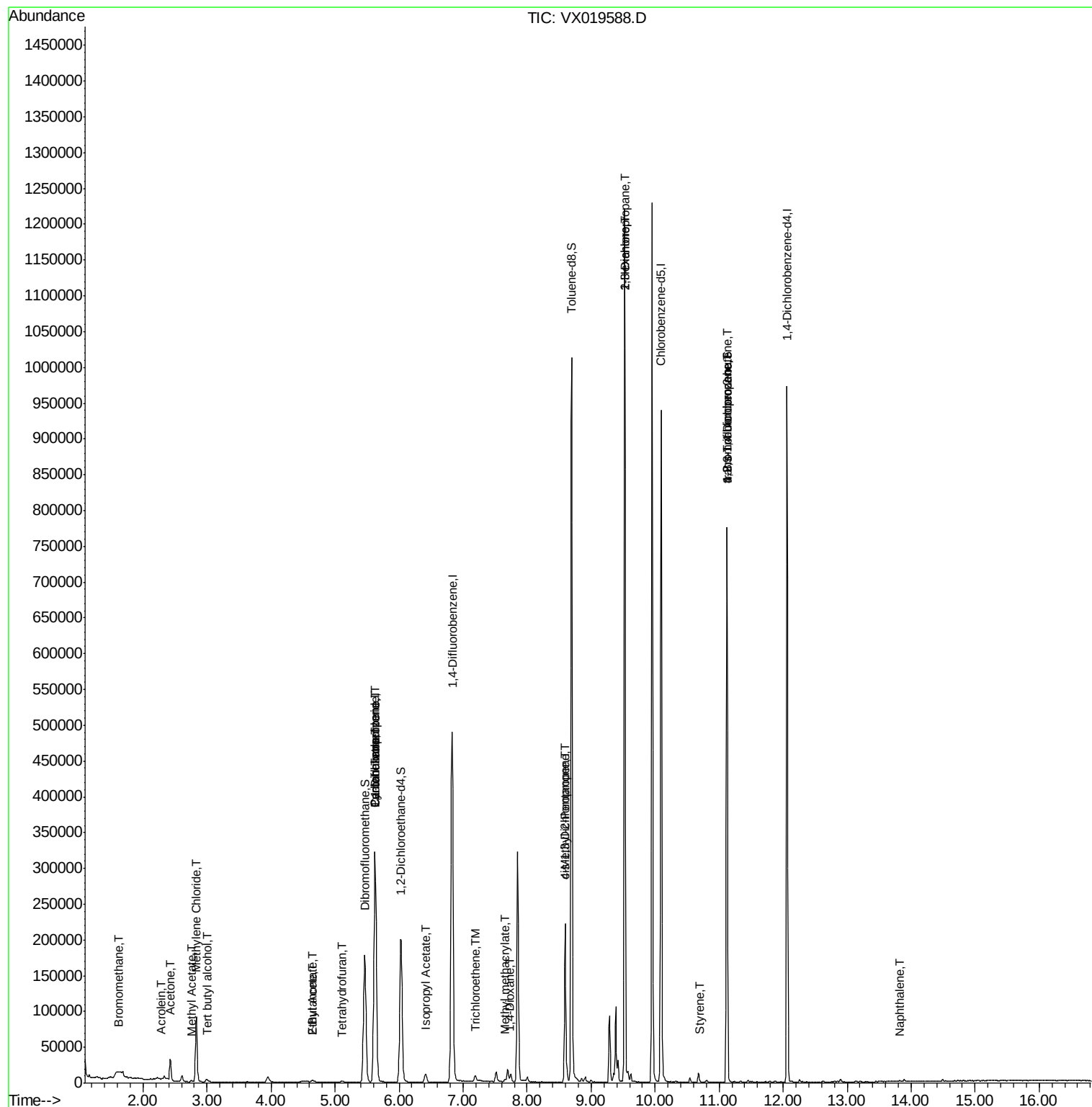
					Qvalue
5) Bromomethane	1.62	94	567	0.393 ug/l	97
6) Chloroethane	1.69	64	341	Below Cal	# 57
11) Tert butyl alcohol	2.99	59	2523	3.239 ug/l	# 75
13) Acrolein	2.28	56	202	0.386 ug/l	# 15
16) Acetone	2.42	43	32478	20.405 ug/l	95
18) Methyl Acetate	2.75	43	2141	1.176 ug/l	97
20) Methylene Chloride	2.83	84	45172	11.355 ug/l	96
25) 2-Butanone	4.65	43	5222	2.184 ug/l	89
29) Tetrahydrofuran	5.10	42	1551	1.017 ug/l	88
31) Cyclohexane	5.62	56	6107	1.141 ug/l	# 1
36) 1,1-Dichloropropene	5.63	75	23653	4.875 ug/l	# 50
37) Ethyl Acetate	4.65	43	5222	1.146 ug/l	# 65
38) Carbon Tetrachloride	5.62	117	30637	6.524 ug/l	# 17
43) Isopropyl Acetate	6.41	43	15765	2.059 ug/l	99
44) Trichloroethene	7.18	130	1668	0.427 ug/l	83
48) Methyl methacrylate	7.65	41	5681	1.584 ug/l	# 16
49) 1,4-Dioxane	7.73	88	38	0.467 ug/l	# 1
51) 4-Methyl-2-Pentanone	8.59	43	73555	16.474 ug/l	# 49
54) cis-1,3-Dichloropropene	8.59	75	39052	6.685 ug/l	# 61
57) 1,3-Dichloropropane	9.52	76	10689	1.719 ug/l	# 43
59) 2-Hexanone	9.52	43	127678	37.705 ug/l	# 48
70) Styrene	10.70	104	89	1.654 ug/l	# 60
76) 1,2,3-Trichloropropane	11.12	75	101899	24.140 ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.12	75	101899	63.914 ug/l	# 12
95) Naphthalene	13.82	128	1004	2.245 ug/l	# 90

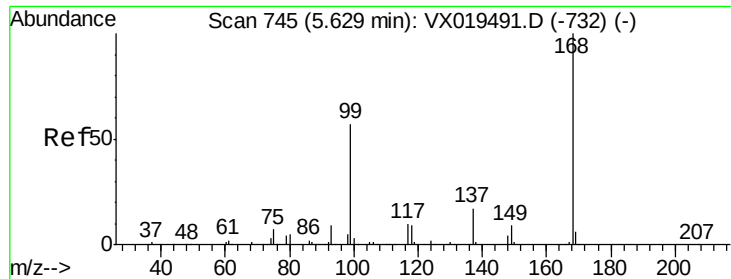
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
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: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

Instrument :

MSVOA_X

ClientSampleId :

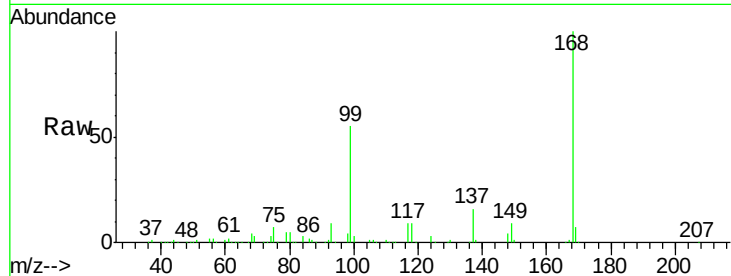
TR5-4-TOP

Tot Ion:168 Resp: 317433

Ion Ratio Lower Upper

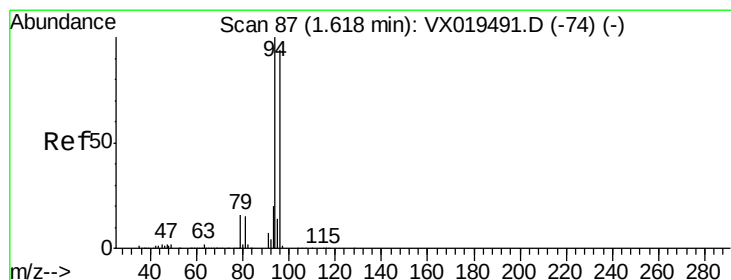
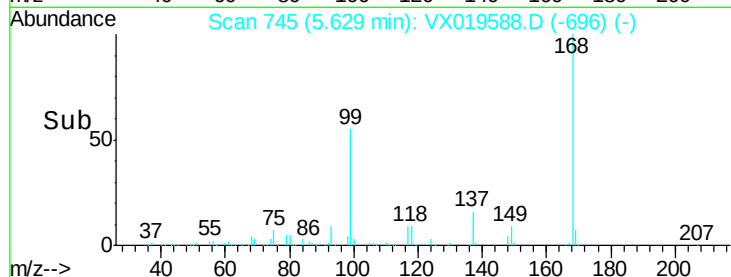
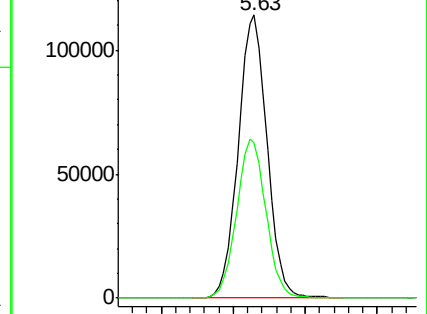
168 100

99 54.7 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: 0.393 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VX019588.D

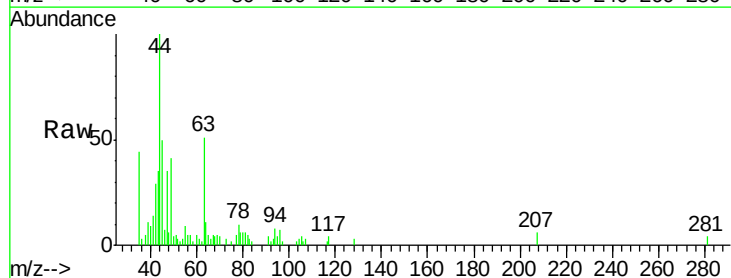
Acq: 24 Nov 2020 06:38

Tgt Ion: 94 Resp: 567

Ion Ratio Lower Upper

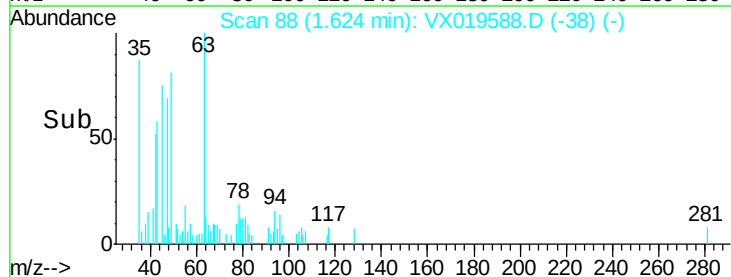
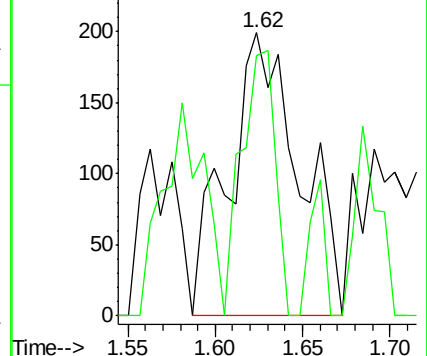
94 100

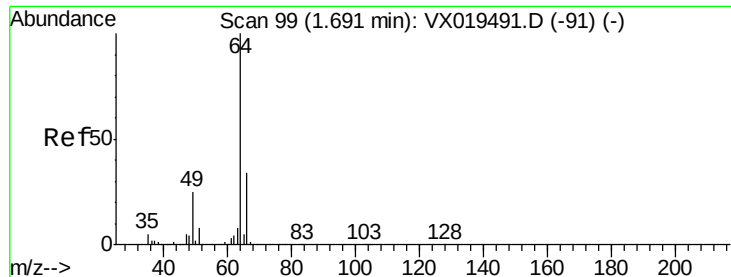
96 92.0 75.6 113.4



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: 1.69 min Scan# 99

Delta R.T. 0.00 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

Instrument :

MSVOA_X

ClientSampled :

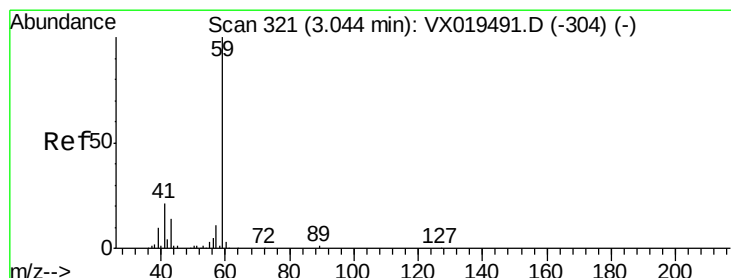
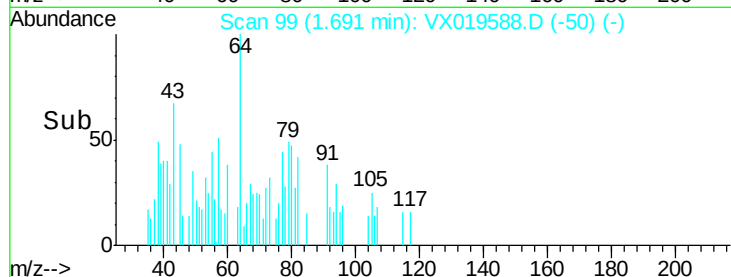
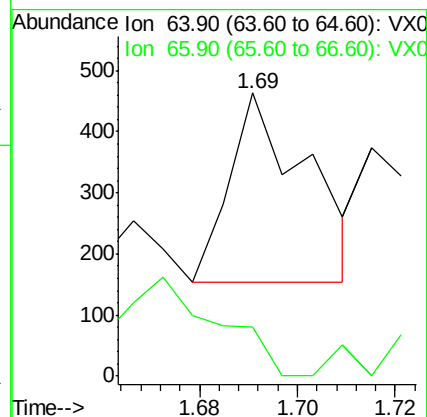
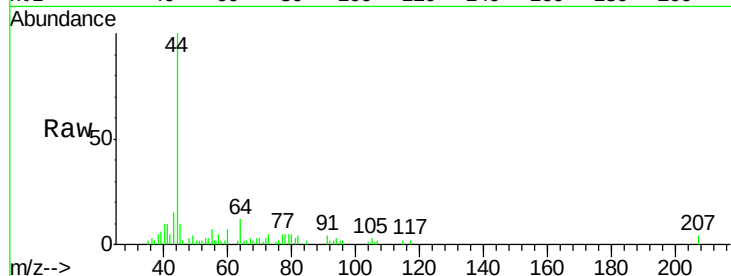
TR5-4-TOP

Tot Ion: 64 Resp: 341

Ion Ratio Lower Upper

64 100

66 9.0 27.1 40.7#



#11

Tert butyl alcohol

Concen: 3.239 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.05 min

Lab File: VX019588.D

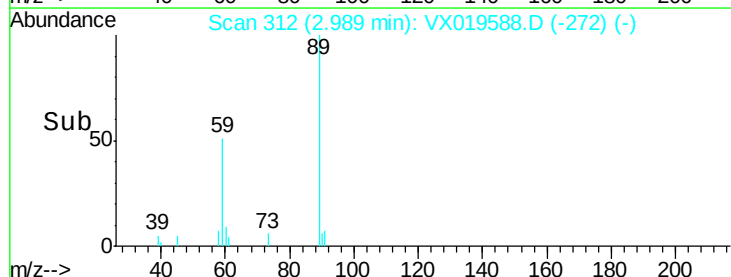
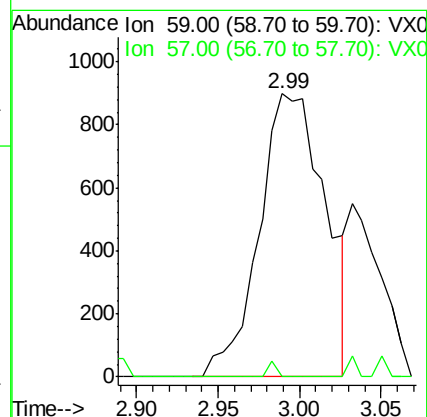
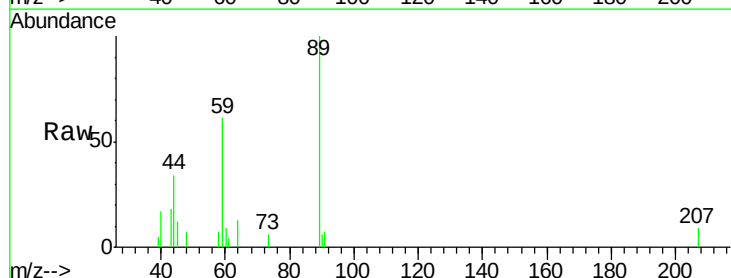
Acq: 24 Nov 2020 06:38

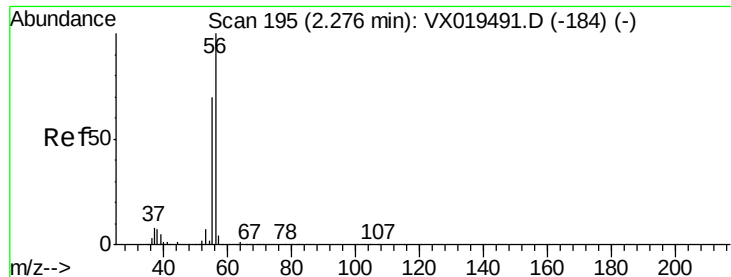
Tgt Ion: 59 Resp: 2523

Ion Ratio Lower Upper

59 100

57 0.8 7.9 11.9#





#13

Acrolein

Concen: 0.386 ug/l

RT: 2.28 min Scan# 195

Delta R.T. -0.00 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

Instrument :

MSVOA_X

ClientSampleId :

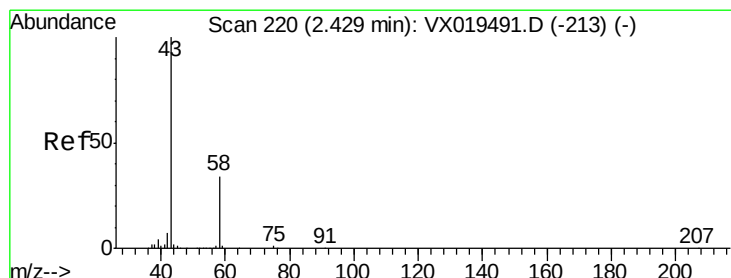
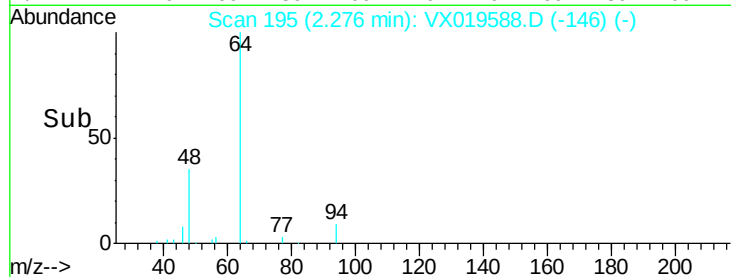
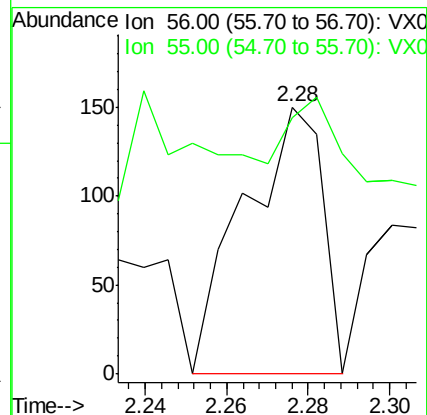
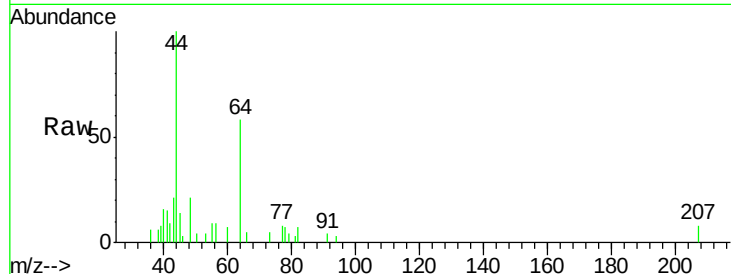
TR5-4-TOP

Tot Ion: 56 Resp: 202

Ion Ratio Lower Upper

56 100

55 0.0 55.5 83.3#



#16

Acetone

Concen: 20.405 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.01 min

Lab File: VX019588.D

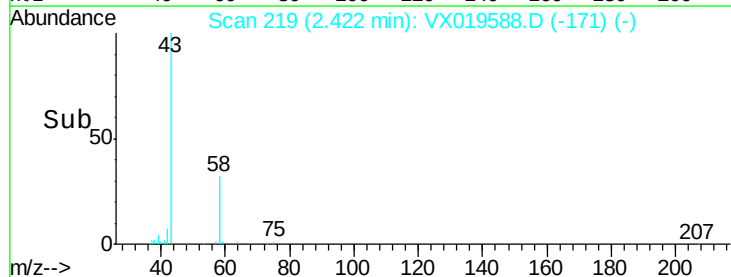
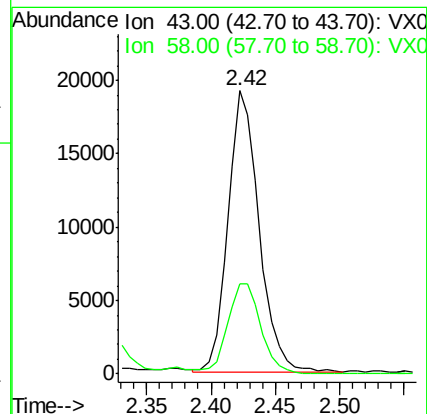
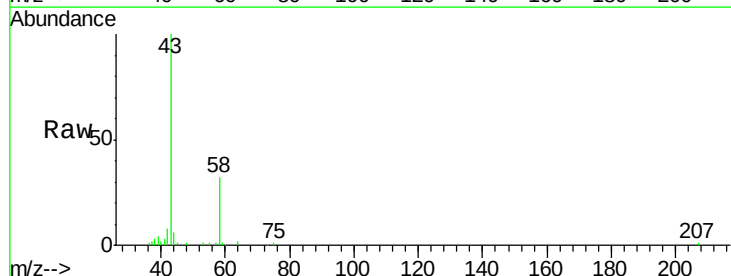
Acq: 24 Nov 2020 06:38

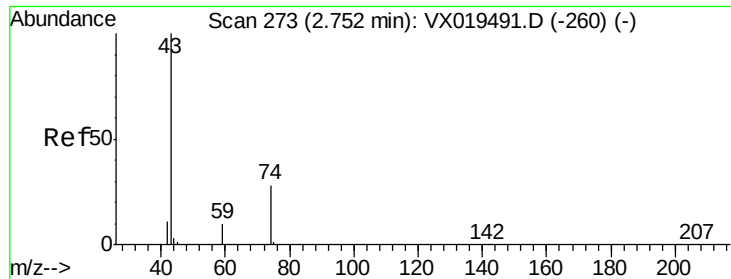
Tgt Ion: 43 Resp: 32478

Ion Ratio Lower Upper

43 100

58 31.7 27.4 41.2

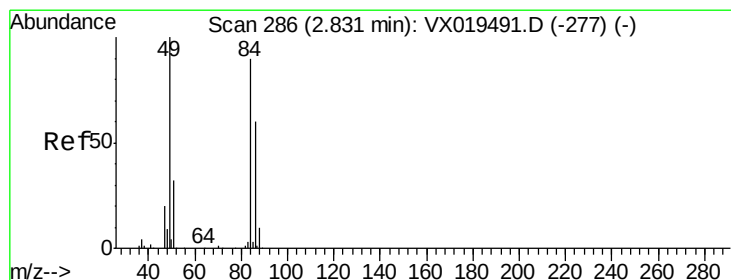
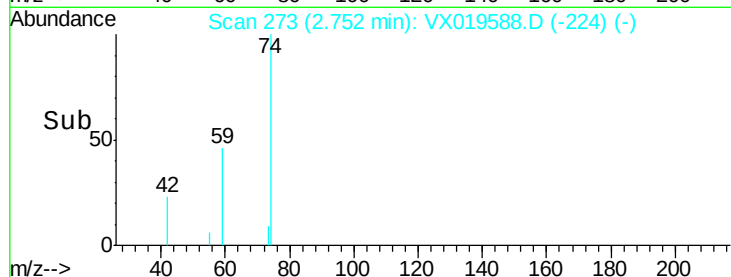
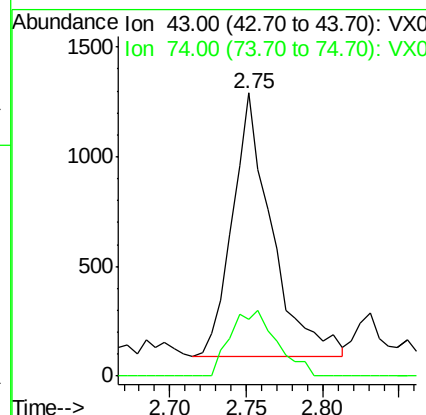
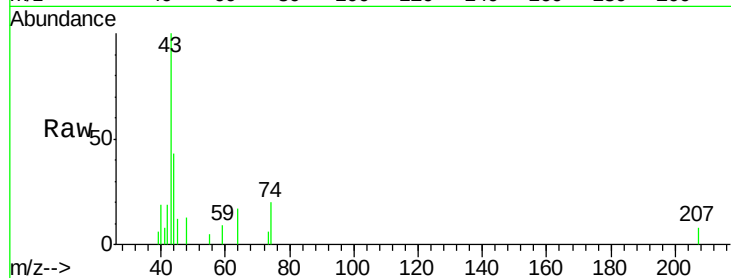




#18
Methvl Acetate
Concen: 1.176 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX019588.D
Acq: 24 Nov 2020 06:38

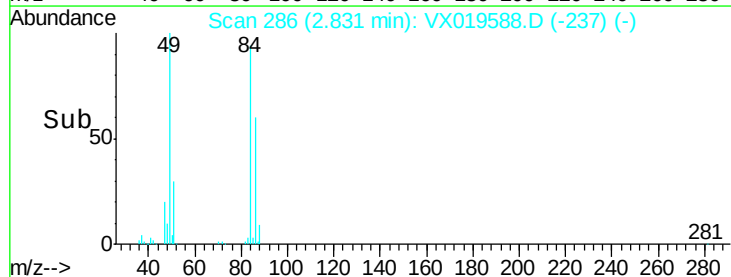
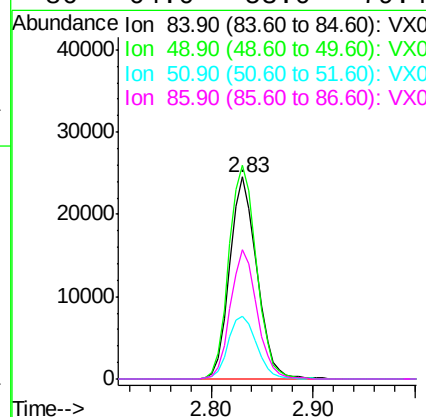
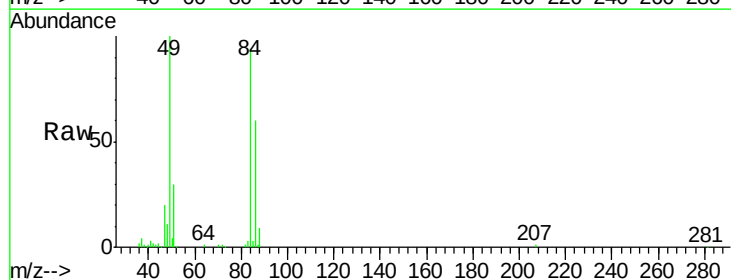
Instrument :
MSVOA_X
ClientSampled :
TR5-4-TOP

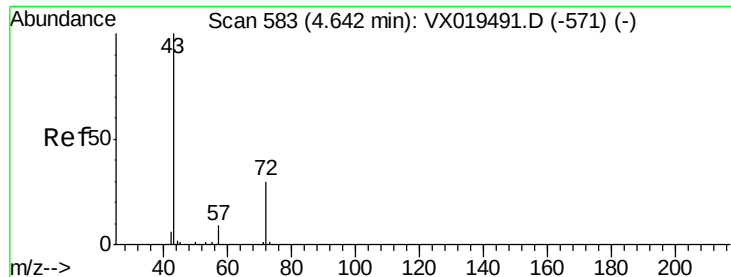
Tot Ion: 43 Resp: 2141
Ion Ratio Lower Upper
43 100
74 29.5 22.2 33.4



#20
Methylene Chloride
Concen: 11.355 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX019588.D
Acq: 24 Nov 2020 06:38

Tgt Ion: 84 Resp: 45172
Ion Ratio Lower Upper
84 100
49 105.9 88.5 132.7
51 31.3 28.0 42.0
86 64.0 53.0 79.4





#25

2-Butanone

Concen: 2.184 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

Instrument :

MSVOA_X

ClientSampled :

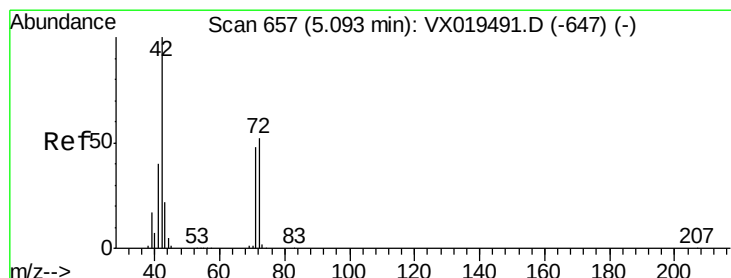
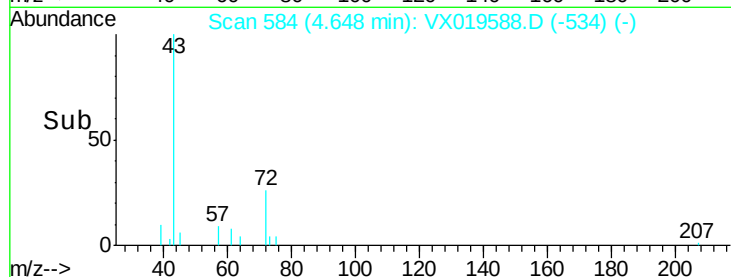
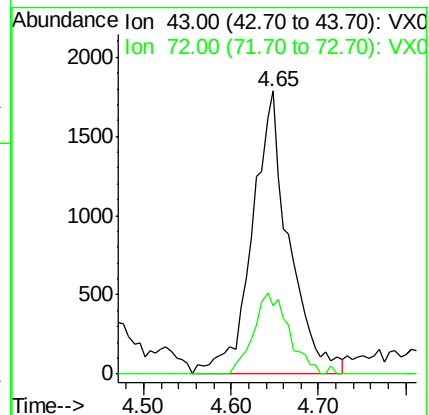
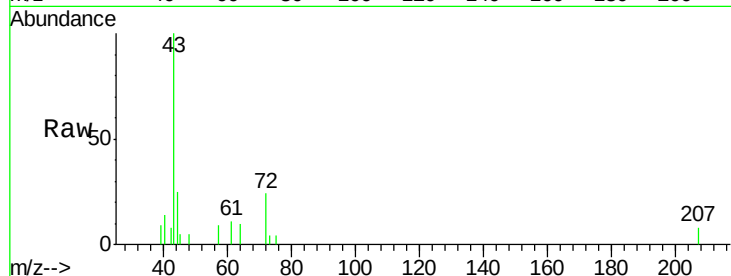
TR5-4-TOP

Tot Ion: 43 Resp: 5222

Ion Ratio Lower Upper

43 100

72 24.2 24.0 36.0



#29

Tetrahydrofuran

Concen: 1.017 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

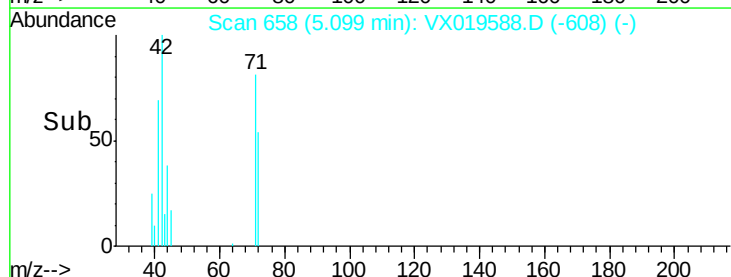
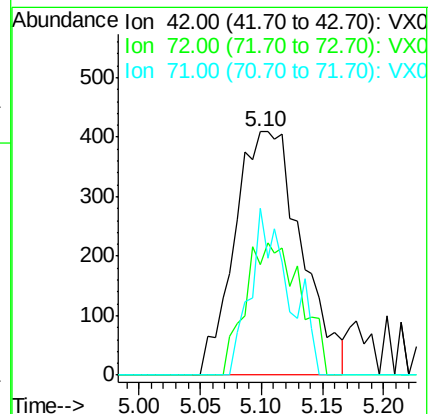
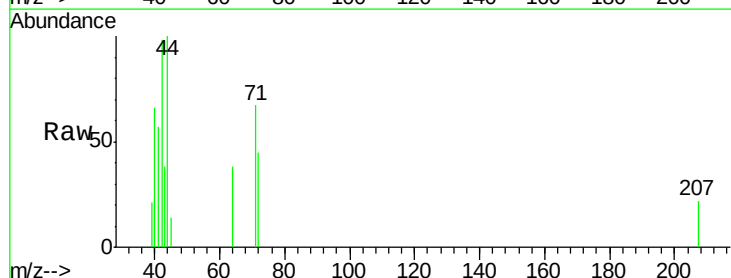
Tgt Ion: 42 Resp: 1551

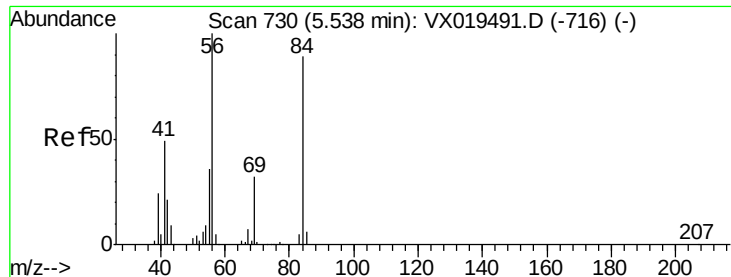
Ion Ratio Lower Upper

42 100

72 45.3 42.6 63.8

71 39.7 39.0 58.6

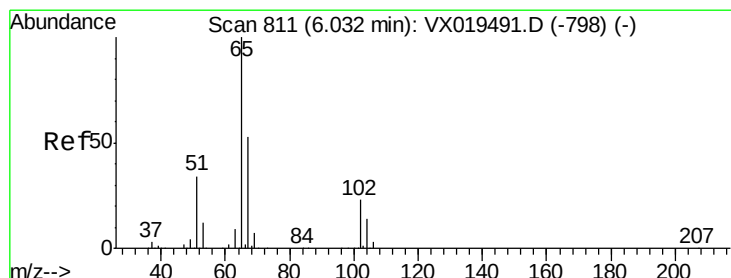
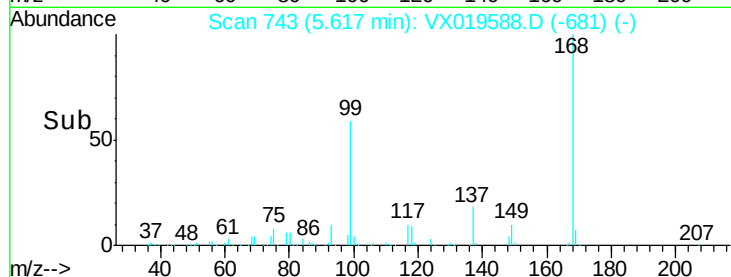
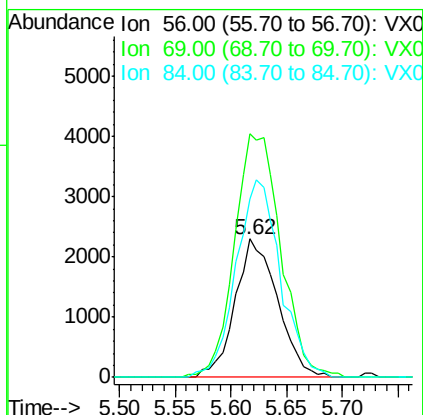
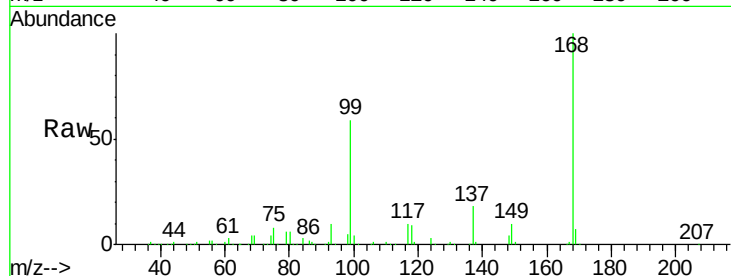




#31
Cyclohexane
Concen: 1.141 ug/l
RT: 5.62 min Scan# 743
Delta R.T. 0.08 min
Lab File: VX019588.D
Acq: 24 Nov 2020 06:38

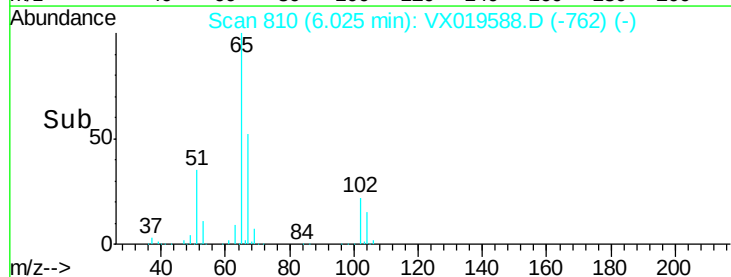
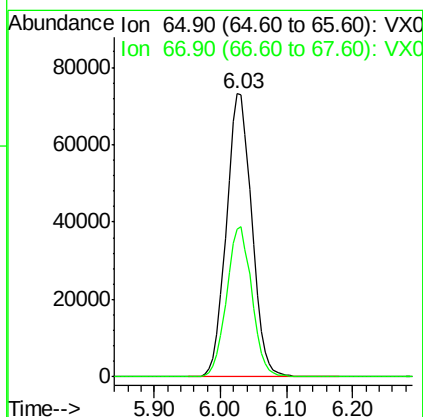
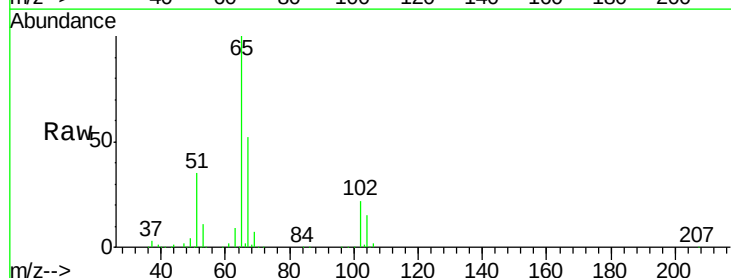
Instrument :
MSVOA_X
ClientSampled :
TR5-4-TOP

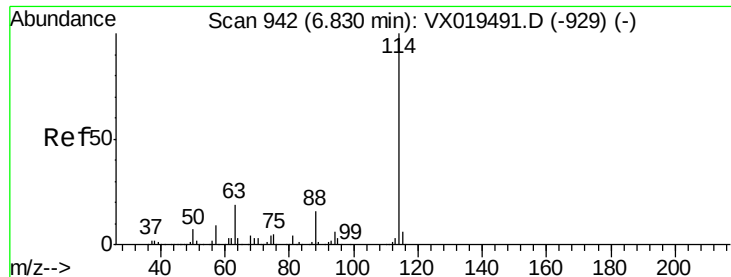
Tot Ion: 56 Resp: 6107
Ion Ratio Lower Upper
56 100
69 173.7 25.5 38.3#
84 129.3 71.1 106.7#



#33
1,2-Dichloroethane-d4
Concen: 47.381 ug/l
RT: 6.03 min Scan# 810
Delta R.T. -0.01 min
Lab File: VX019588.D
Acq: 24 Nov 2020 06:38

Tgt Ion: 65 Resp: 195012
Ion Ratio Lower Upper
65 100
67 52.6 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

Instrument :

MSVOA_X

ClientSampleId :

TR5-4-TOP

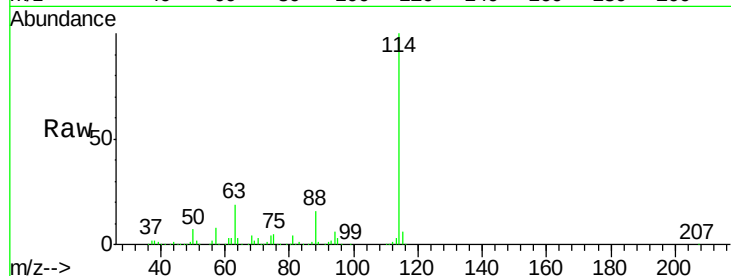
Tot Ion:114 Resp: 517524

Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.8

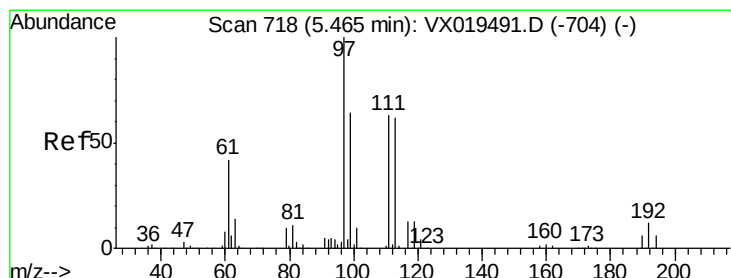
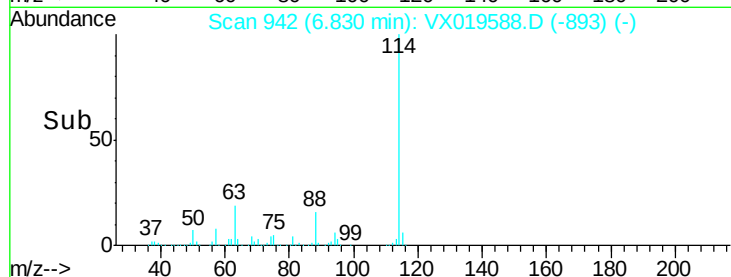
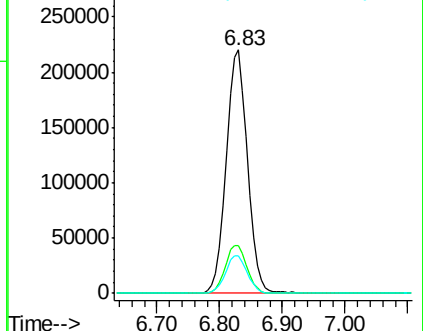
88 15.6 0.0 31.6



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: 47.207 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

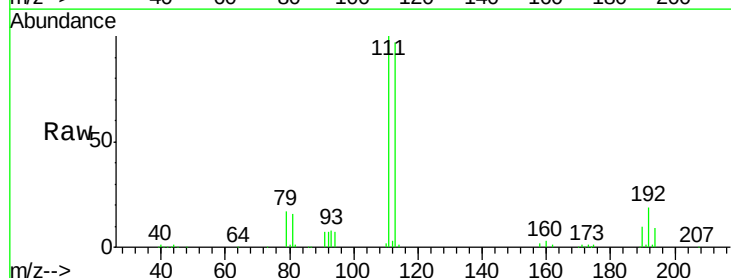
Tgt Ion:113 Resp: 153351

Ion Ratio Lower Upper

113 100

111 103.0 81.5 122.3

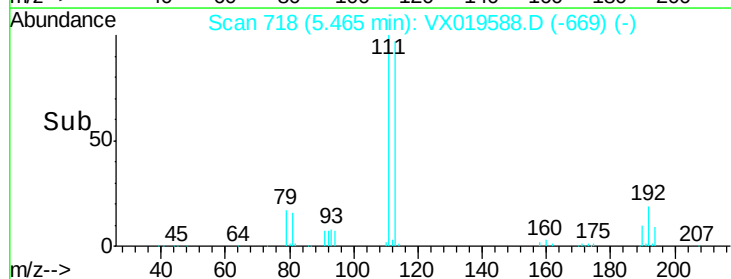
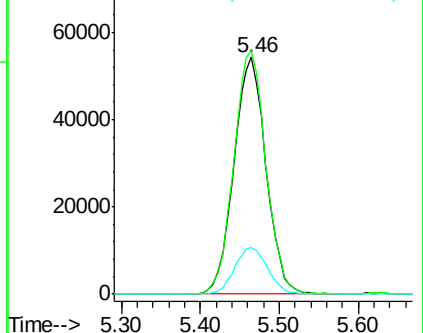
192 20.3 16.2 24.2

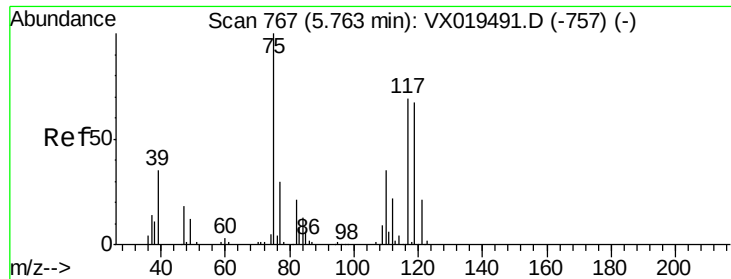


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

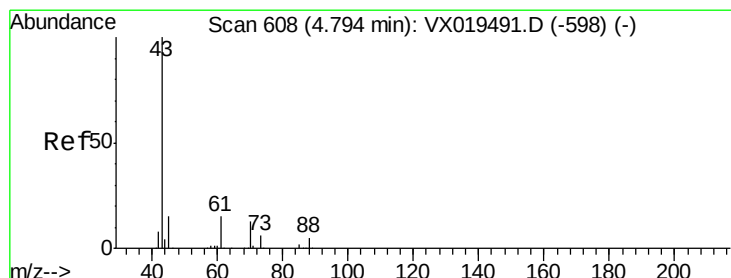
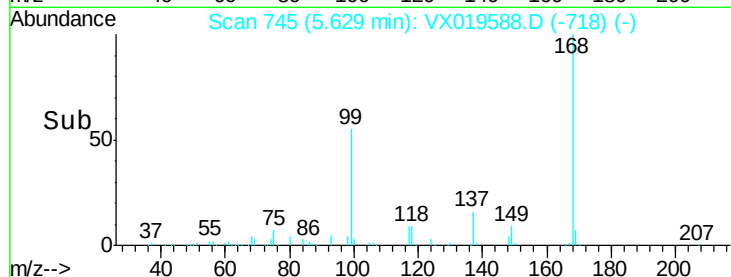
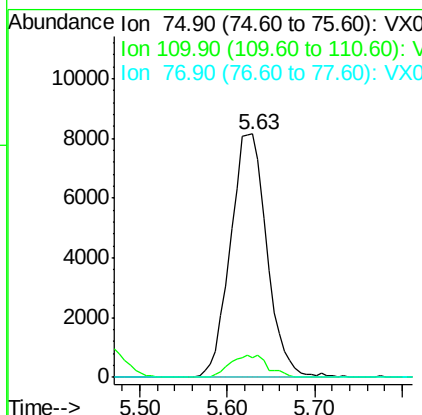
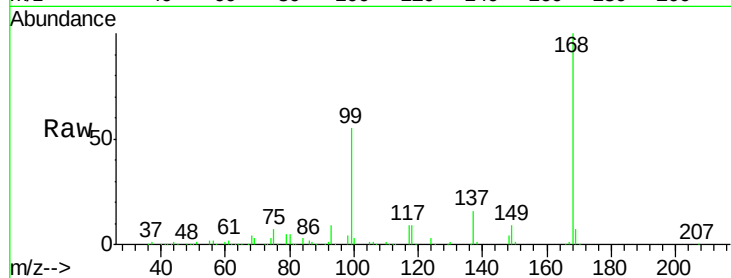




#36
 1,1-Dichloropropene
 Concen: 4.875 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019588.D
 Acq: 24 Nov 2020 06:38

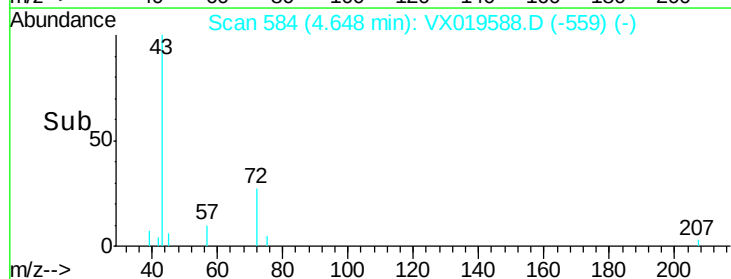
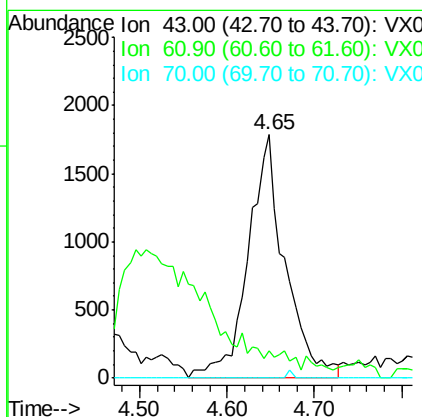
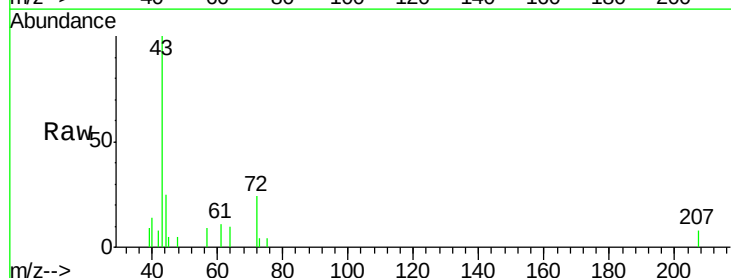
Instrument :
 MSVOA_X
 ClientSampled :
 TR5-4-TOP

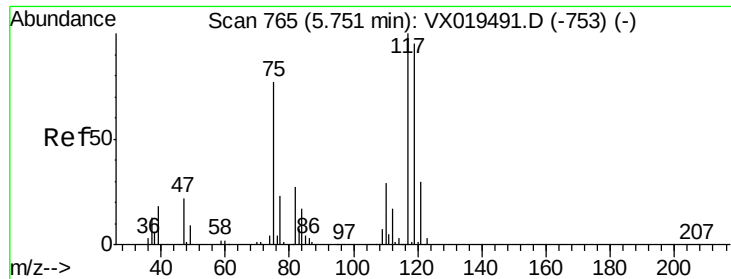
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.1	54.3#
77	0.0	24.2	36.4#



#37
 Ethyl Acetate
 Concen: 1.146 ug/l
 RT: 4.65 min Scan# 584
 Delta R.T. -0.15 min
 Lab File: VX019588.D
 Acq: 24 Nov 2020 06:38

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.7	19.1#
70	0.0	10.2	15.2#





#38

Carbon Tetrachloride

Concen: 6.524 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

Instrument :

MSVOA_X

ClientSampleId :

TR5-4-TOP

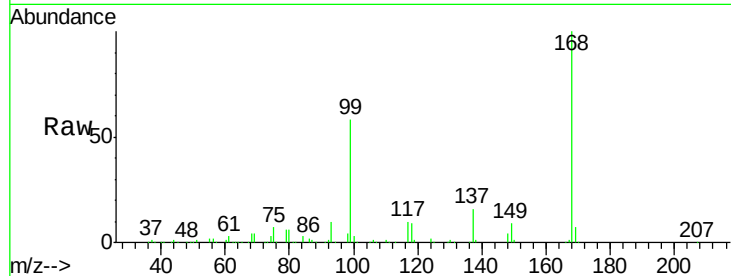
Tot Ion:117 Resp: 30637

Ion Ratio Lower Upper

117 100

119 5.7 75.9 113.9#

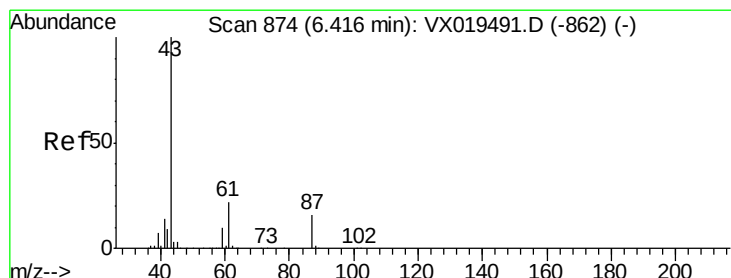
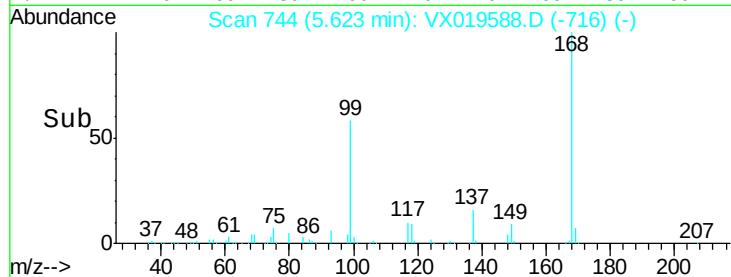
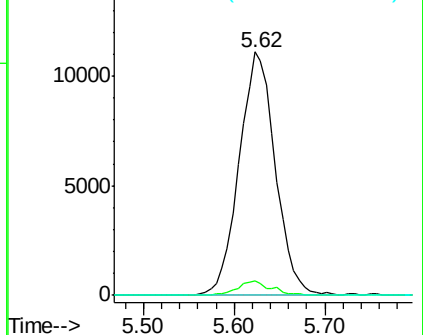
121 0.0 24.0 36.0#



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



#43

Isopropyl Acetate

Concen: 2.059 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.01 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

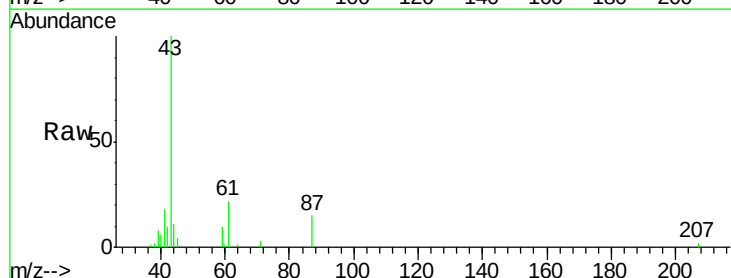
Tgt Ion: 43 Resp: 15765

Ion Ratio Lower Upper

43 100

61 22.7 18.2 27.2

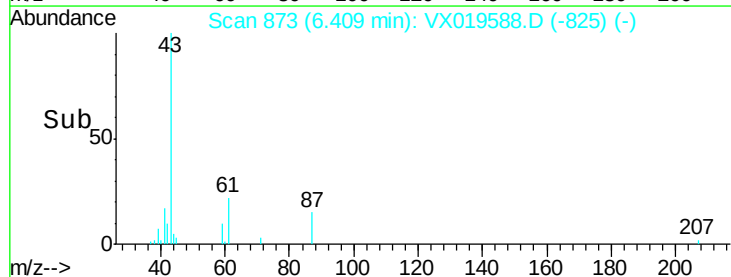
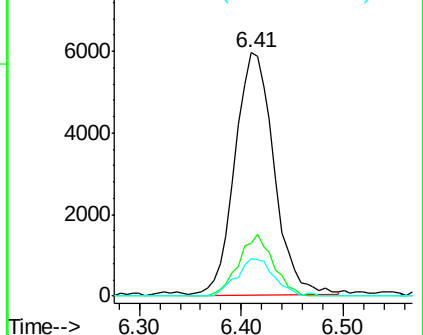
87 14.7 12.6 18.8

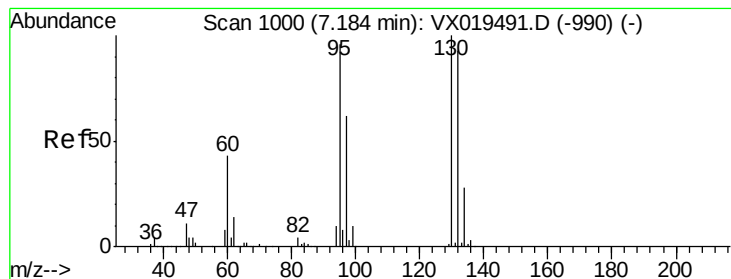


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#44

Trichloroethene

Concen: 0.427 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

Instrument :

MSVOA_X

ClientSampled :

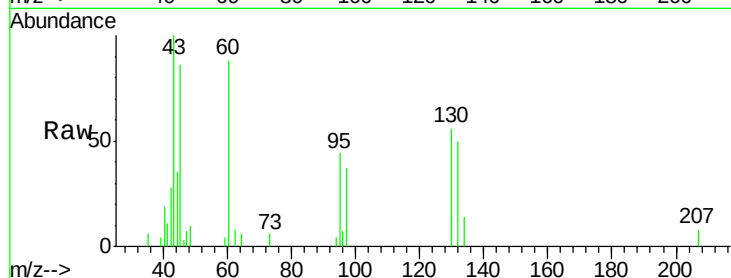
TR5-4-TOP

Tot Ion:130 Resp: 1668

Ion Ratio Lower Upper

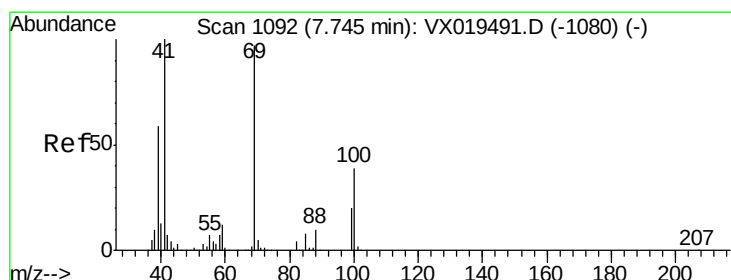
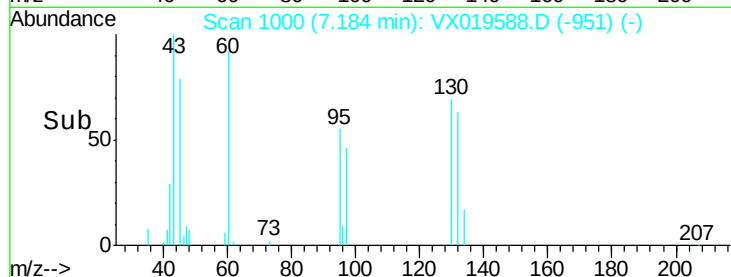
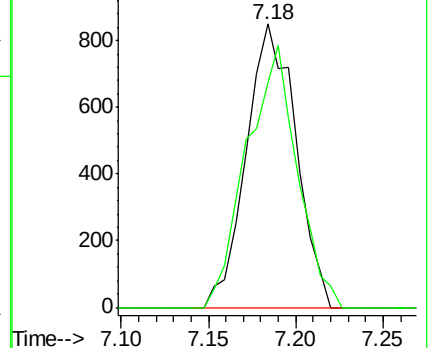
130 100

95 79.4 0.0 191.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#48

Methyl methacrylate

Concen: 1.584 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.09 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

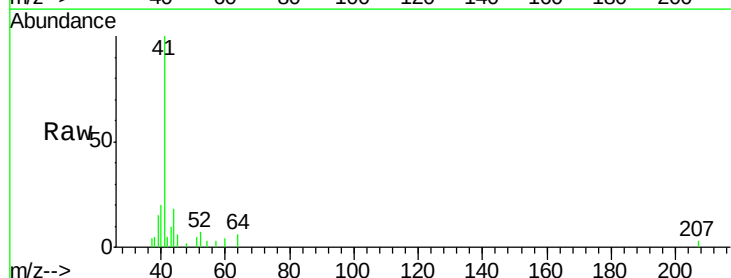
Tgt Ion: 41 Resp: 5681

Ion Ratio Lower Upper

41 100

69 0.0 77.0 115.6#

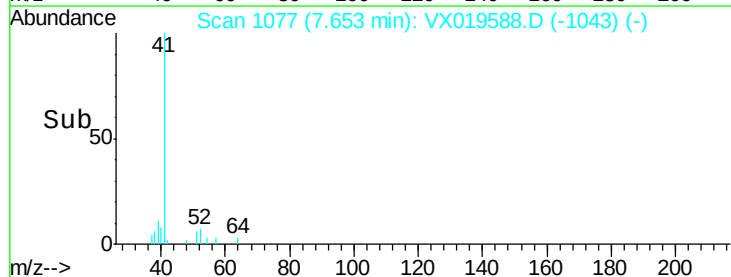
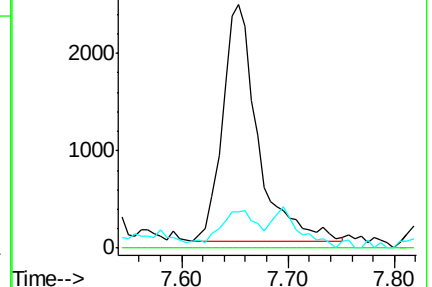
39 13.3 45.6 68.4#

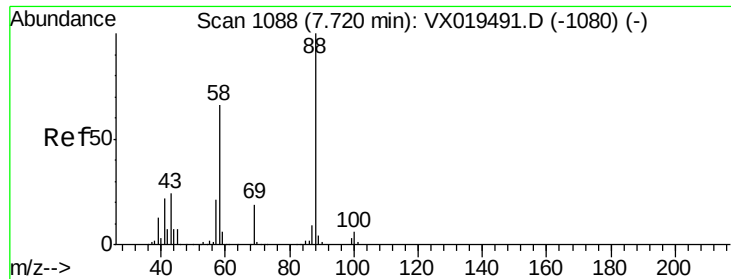


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

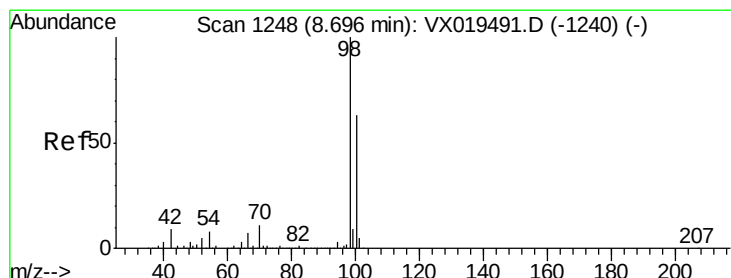
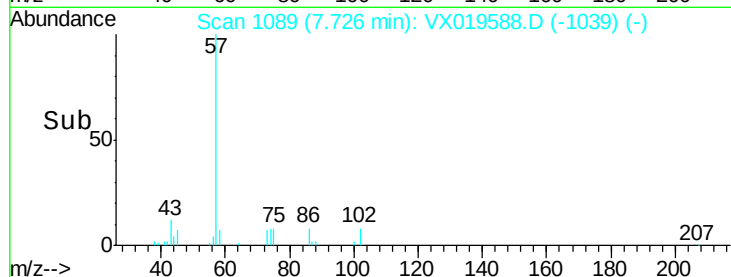
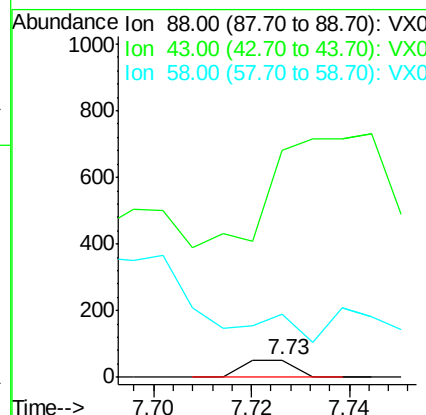
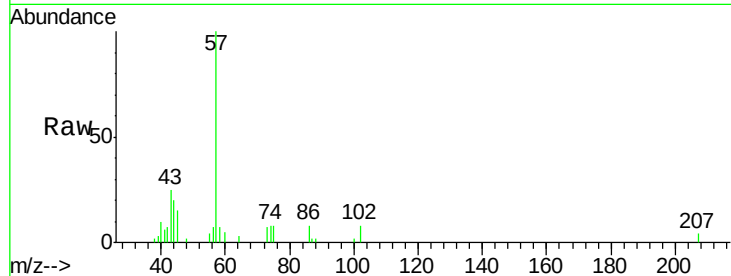




#49
1,4-Dioxane
Concen: 0.467 ug/l
RT: 7.73 min Scan# 1089
Delta R.T. 0.01 min
Lab File: VX019588.D
Acq: 24 Nov 2020 06:38

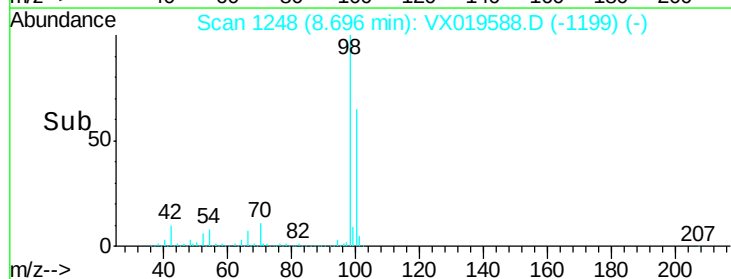
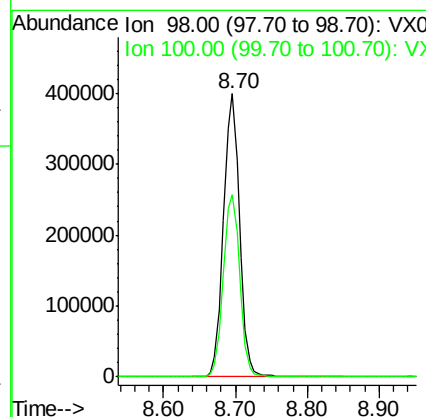
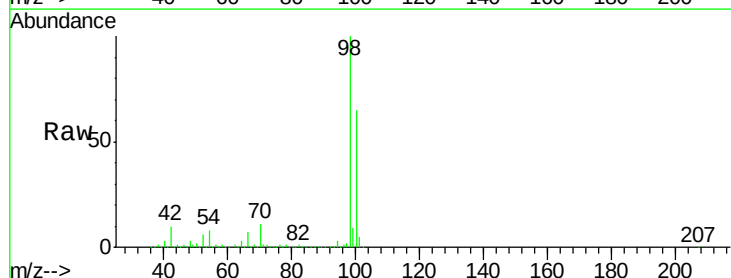
Instrument :
MSVOA_X
ClientSampleId :
TR5-4-TOP

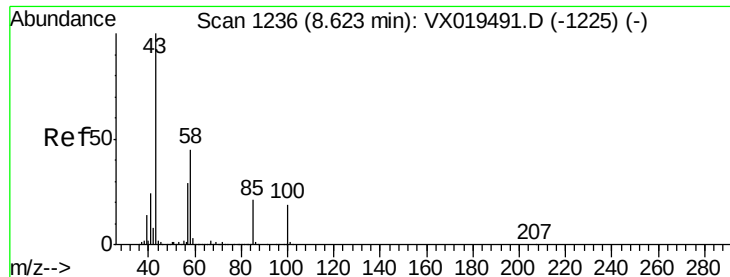
Tot Ion: 88 Resp: 38
Ion Ratio Lower Upper
88 100
43 0.0 23.8 35.6#
58 684.2 54.2 81.2#



#50
Toluene-d8
Concen: 48.925 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019588.D
Acq: 24 Nov 2020 06:38

Tgt Ion: 98 Resp: 617596
Ion Ratio Lower Upper
98 100
100 66.0 52.4 78.6





#51

4-Methyl-2-Pentanone

Concen: 16.474 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

Instrument :

MSVOA_X

ClientSampled :

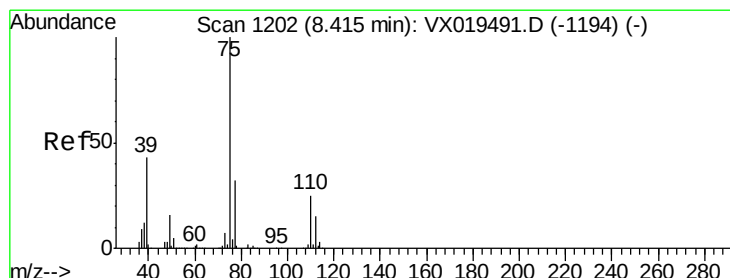
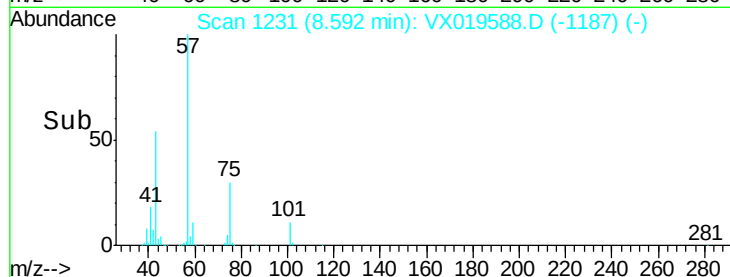
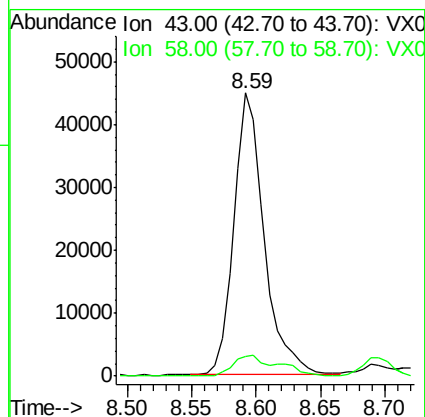
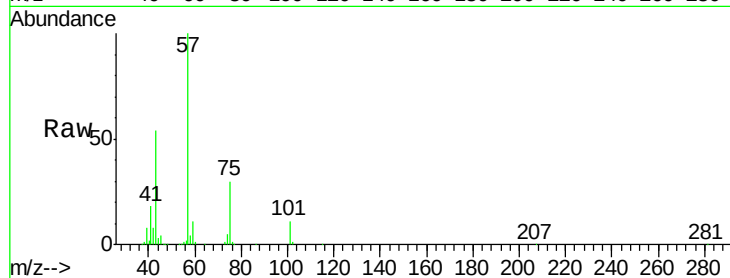
TR5-4-TOP

Tot Ion: 43 Resp: 73555

Ion Ratio Lower Upper

43 100

58 11.0 35.1 52.7#



#54

cis-1,3-Dichloropropene

Concen: 6.685 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

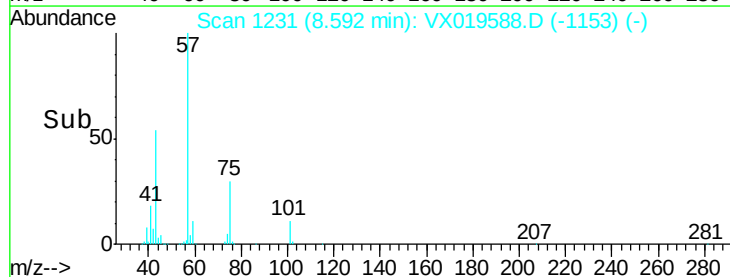
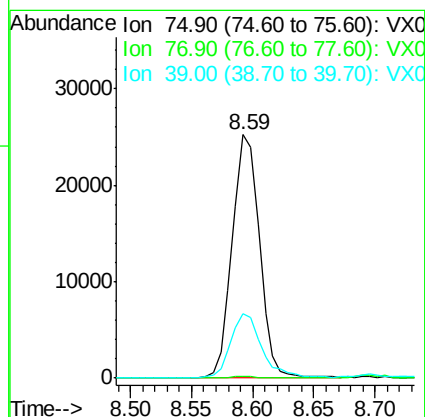
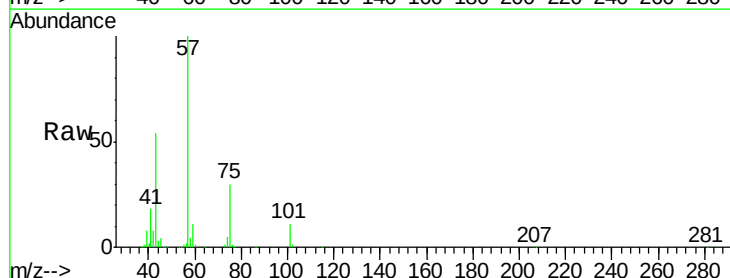
Tgt Ion: 75 Resp: 39052

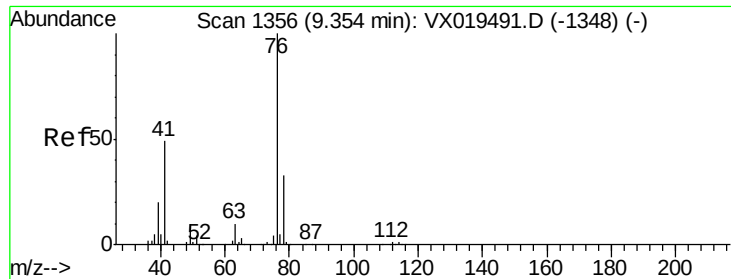
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

39 26.5 34.6 51.8#

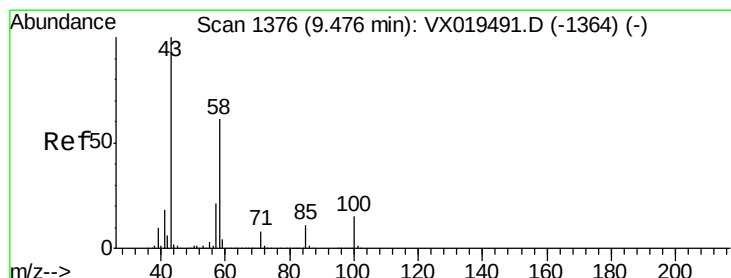
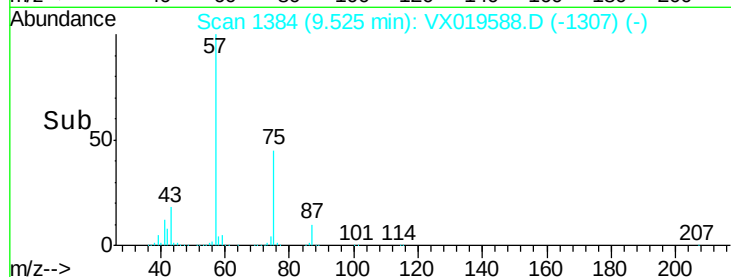
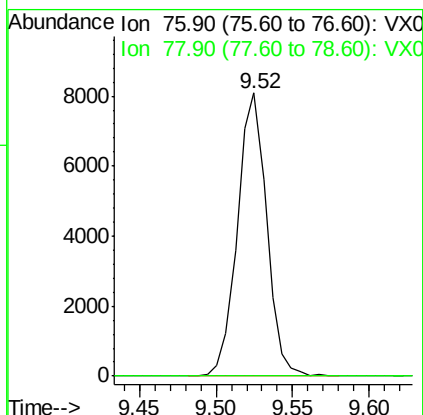
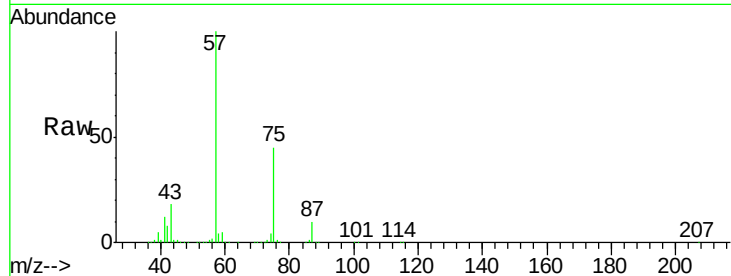




#57
 1,3-Dichloropropane
 Concen: 1.719 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX019588.D
 Acq: 24 Nov 2020 06:38

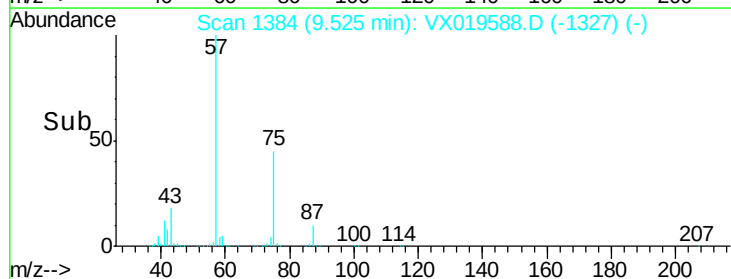
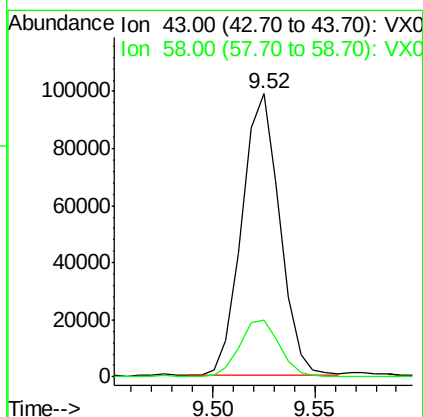
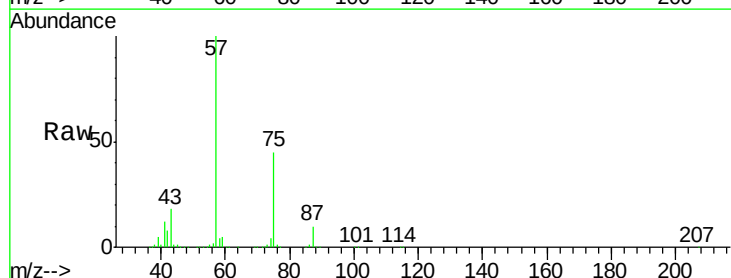
Instrument :
 MSVOA_X
 ClientSampleId :
 TR5-4-TOP

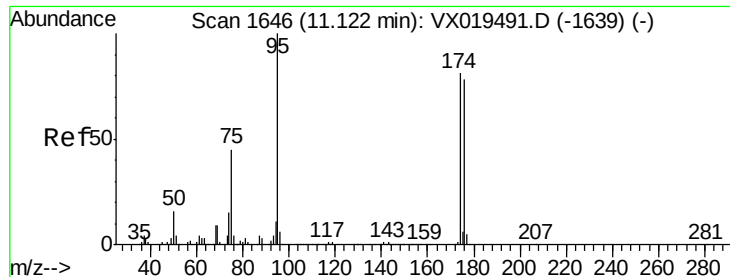
Tot Ion: 76 Resp: 10689
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 37.705 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX019588.D
 Acq: 24 Nov 2020 06:38

Tgt Ion: 43 Resp: 127678
 Ion Ratio Lower Upper
 43 100
 58 21.4 30.6 91.6#

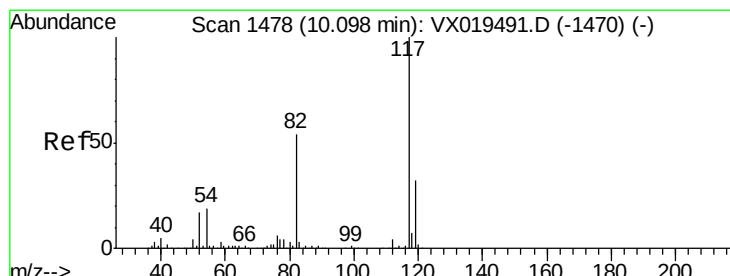
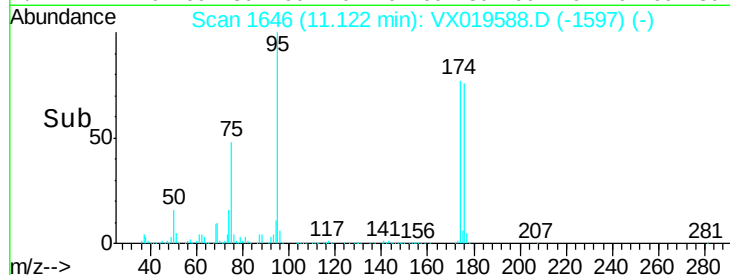
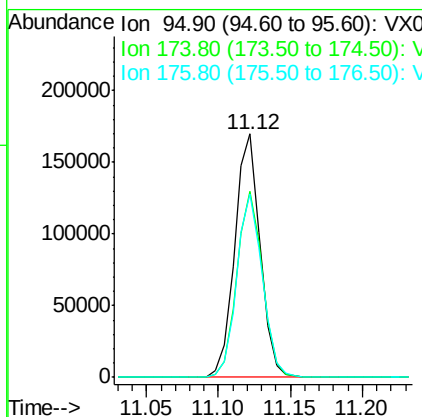
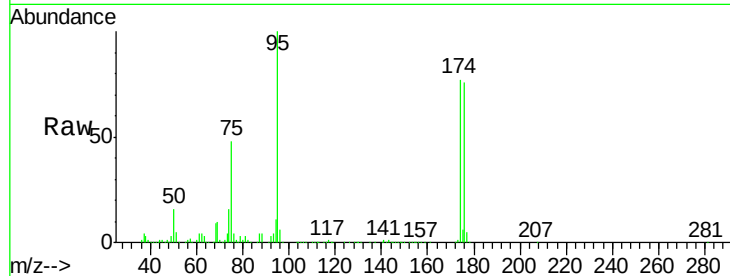




#62
4-Bromofluorobenzene
Concen: 46.145 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019588.D
Acq: 24 Nov 2020 06:38

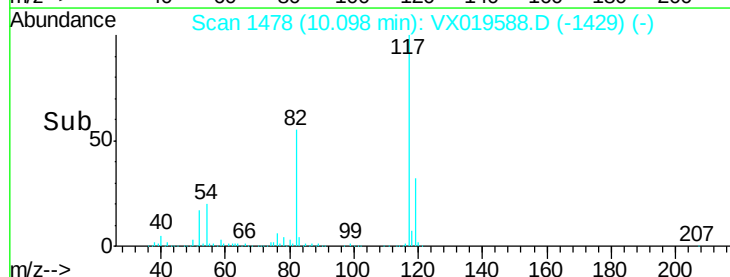
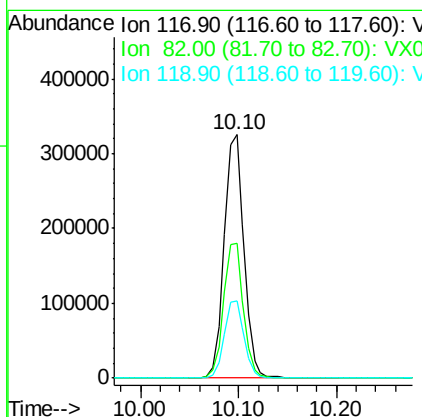
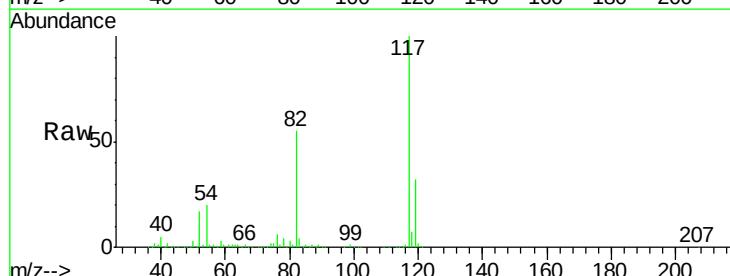
Instrument :
MSVOA_X
ClientSampleId :
TR5-4-TOP

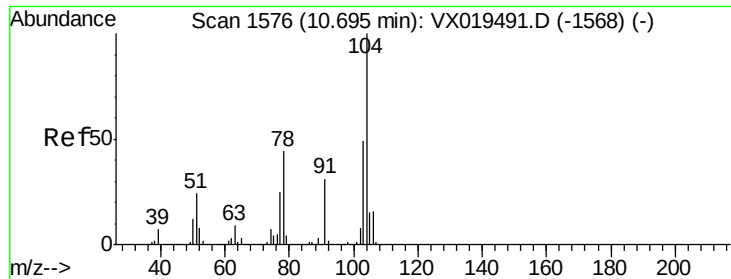
Tot Ion: 95 Resp: 209578
Ion Ratio Lower Upper
95 100
174 77.1 0.0 156.2
176 75.7 0.0 151.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019588.D
Acq: 24 Nov 2020 06:38

Tgt Ion: 117 Resp: 455702
Ion Ratio Lower Upper
117 100
82 55.1 43.0 64.4
119 31.8 25.6 38.4





#70

Stvrene

Concen: 1.654 ug/l

RT: 10.70 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

Instrument :

MSVOA_X

ClientSampled :

TR5-4-TOP

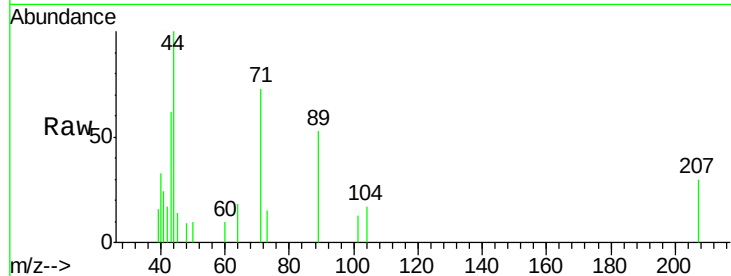
Tot Ion:104 Resp: 89

Ion Ratio Lower Upper

104 100

78 27.0 39.5 59.3#

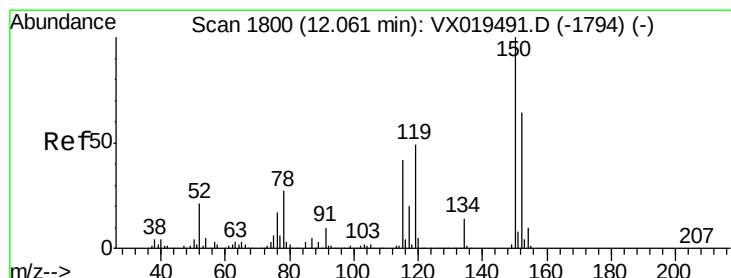
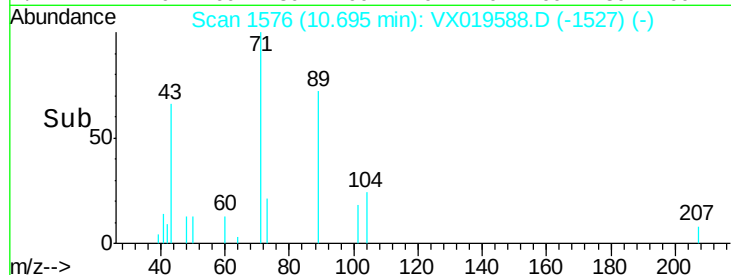
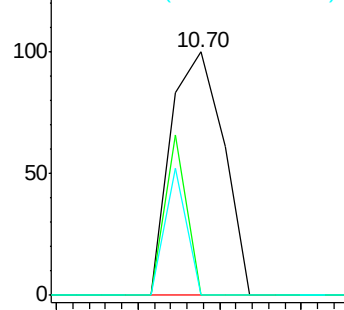
103 21.3 43.6 65.4#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): 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: VX019588.D

Acq: 24 Nov 2020 06:38

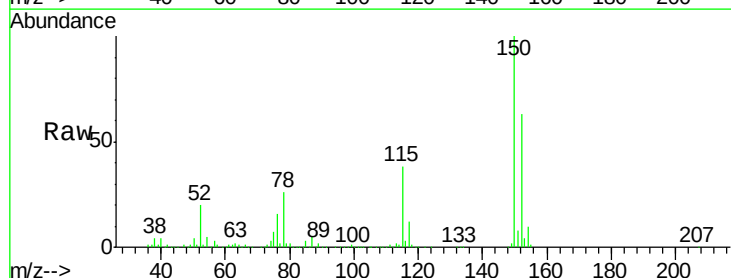
Tgt Ion:152 Resp: 193421

Ion Ratio Lower Upper

152 100

115 59.9 41.8 125.4

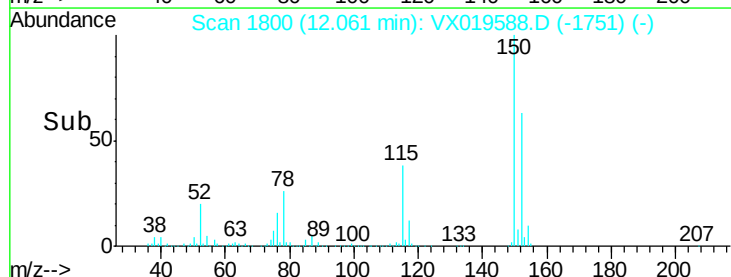
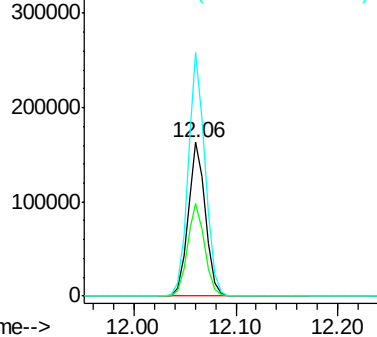
150 156.1 0.0 348.2

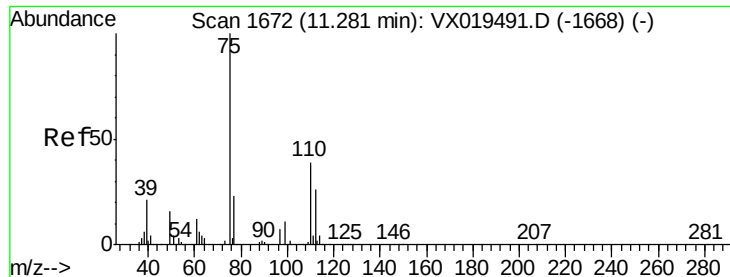


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.140 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

Instrument :

MSVOA_X

ClientSampleId :

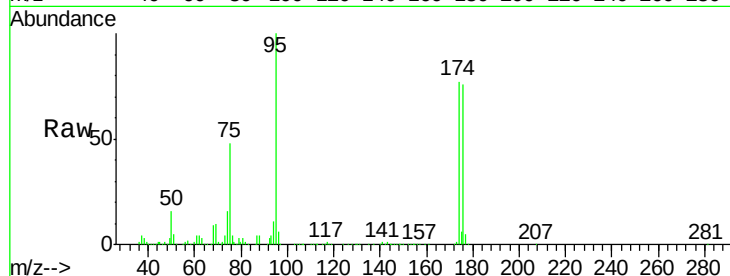
TR5-4-TOP

Tot Ion: 75 Resp: 101899

Ion Ratio Lower Upper

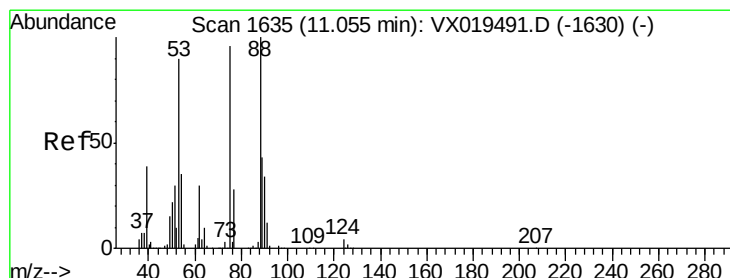
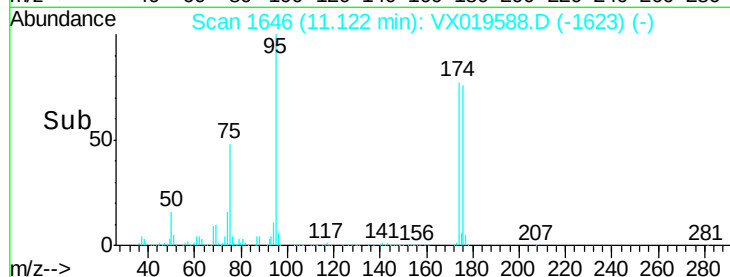
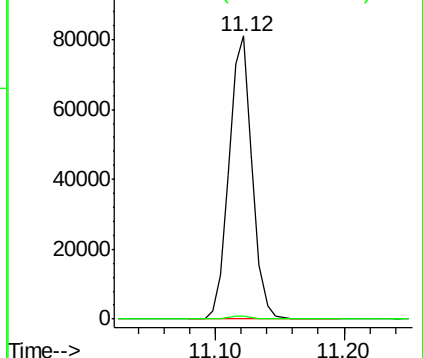
75 100

77 1.2 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: 63.914 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

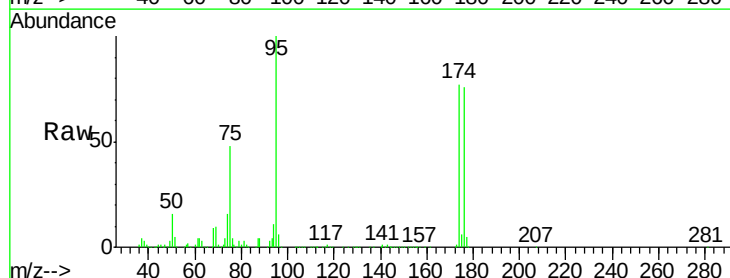
Tgt Ion: 75 Resp: 101899

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

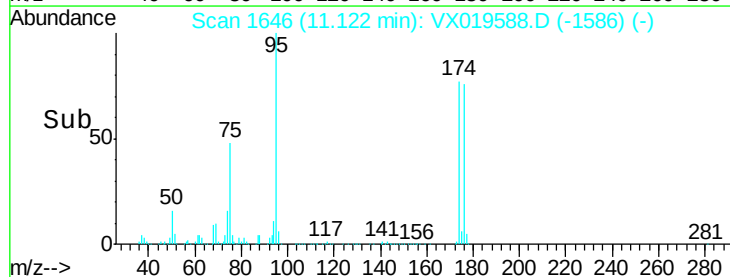
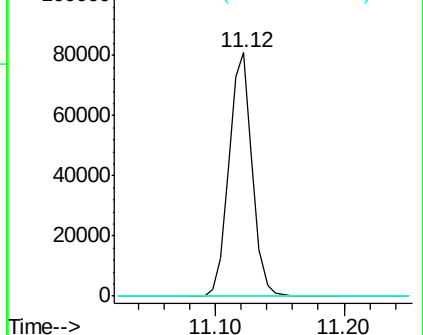
89 0.1 37.3 55.9#

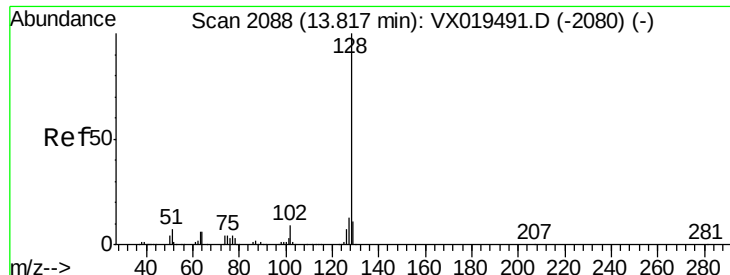


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 2.245 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019588.D

Acq: 24 Nov 2020 06:38

Instrument :

MSVOA_X

ClientSampleId :

TR5-4-TOP

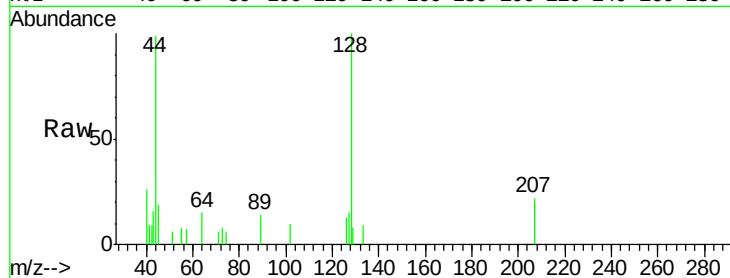
Tot Ion:128 Resp: 1004

Ion Ratio Lower Upper

128 100

127 14.3 10.3 15.5

129 4.6 8.7 13.1#



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

