

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX113020\
 Data File : VX019683.D
 Acq On : 30 Nov 2020 16:20
 Operator : JC/MD
 Sample : L4903-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-3-4-COMP

Quant Time: Dec 01 02:42:45 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	273844	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	461145	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	407346	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	166985	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	175520	49.43	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	98.86%
35) Dibromofluoromethane	5.46	113	139295	48.12	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	96.24%
50) Toluene-d8	8.70	98	546845	48.62	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.24%
62) 4-Bromofluorobenzene	11.12	95	185541	45.85	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.70%

Target Compounds

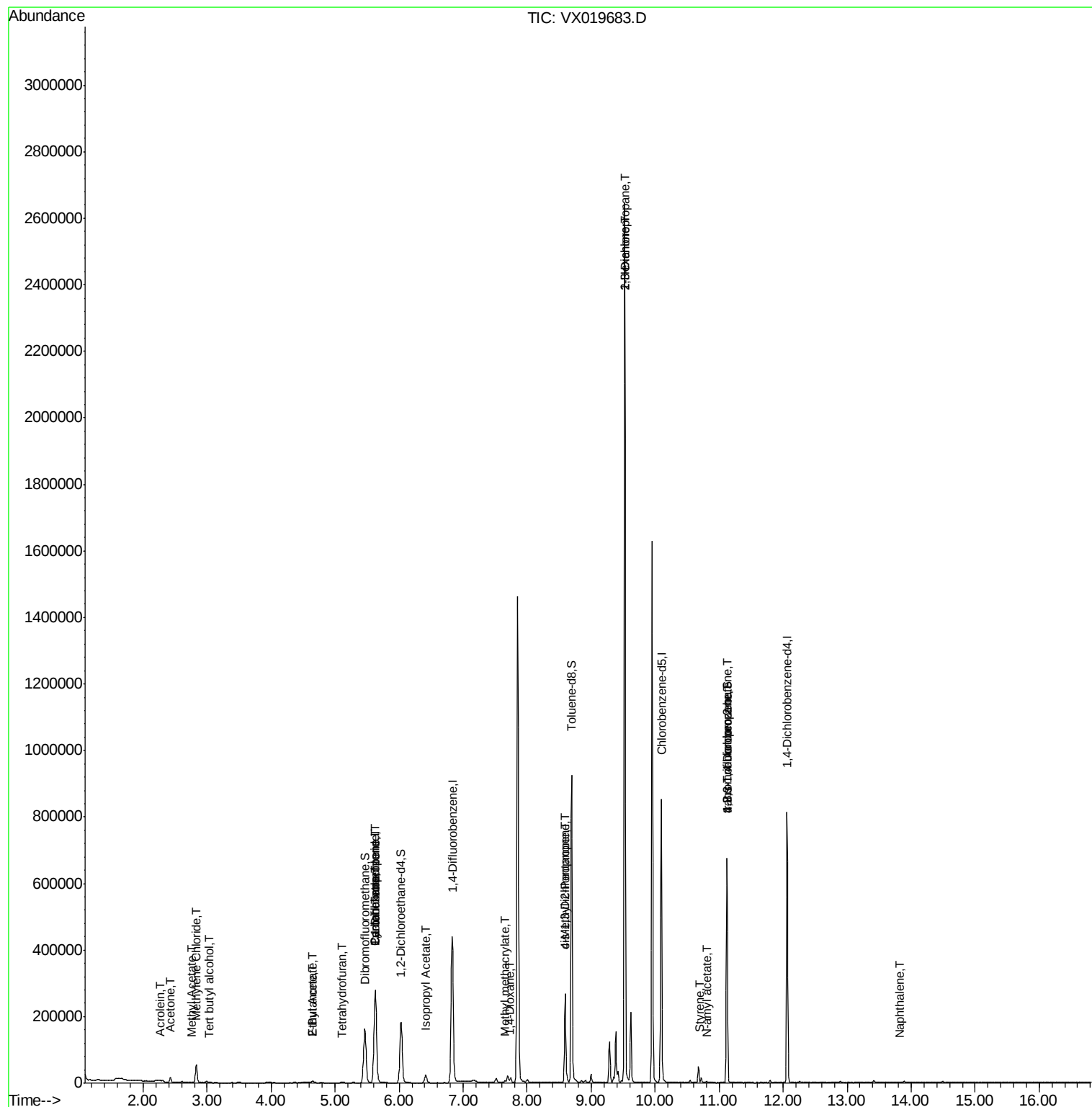
				Qvalue	
6) Chloroethane	1.68	64	1417	Below Cal	# 79
11) Tert butyl alcohol	3.03	59	1594	2.372	ug/l # 92
13) Acrolein	2.28	56	339	0.751	ug/l # 15
16) Acetone	2.43	43	15643	11.393	ug/l # 96
18) Methyl Acetate	2.75	43	3375	1.624	ug/l # 84
20) Methylene Chloride	2.83	84	26020	7.582	ug/l # 98
25) 2-Butanone	4.64	43	9129	4.426	ug/l # 94
29) Tetrahydrofuran	5.10	42	1831	1.391	ug/l # 86
31) Cyclohexane	5.63	56	5496	1.190	ug/l # 1
36) 1,1-Dichloropropene	5.63	75	20918	4.838	ug/l # 49
37) Ethyl Acetate	4.64	43	9129	2.249	ug/l # 65
38) Carbon Tetrachloride	5.63	117	26906	6.430	ug/l # 17
43) Isopropyl Acetate	6.42	43	29996	4.397	ug/l # 99
48) Methyl methacrylate	7.65	41	7113	2.226	ug/l # 9
49) 1,4-Dioxane	7.73	88	23	0.317	ug/l # 25
51) 4-Methyl-2-Pentanone	8.59	43	89806	22.573	ug/l # 47
54) cis-1,3-Dichloropropene	8.60	75	47667	9.158	ug/l # 59
57) 1,3-Dichloropropane	9.52	76	23741	4.285	ug/l # 44
59) 2-Hexanone	9.52	43	272875	90.436	ug/l # 48
70) Styrene	10.70	104	133	1.659	ug/l # 51
74) N-amyl acetate	10.81	43	1810	0.418	ug/l # 44
76) 1,2,3-Trichloropropane	11.12	75	89869	24.661	ug/l # 37
81) trans-1,4-Dichloro-2-buten	11.12	75	89869	65.201	ug/l # 12
95) Naphthalene	13.82	128	317	2.203	ug/l # 69

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

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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: VX019683.D

Acq: 30 Nov 2020 16:20

Instrument :

MSVOA_X

ClientSampleId :

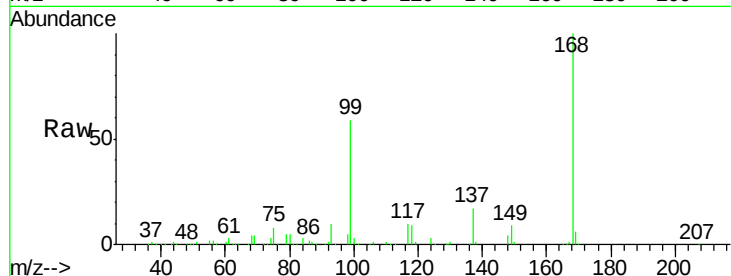
TP-3-4-COMP

Tot Ion:168 Resp: 273844

Ion Ratio Lower Upper

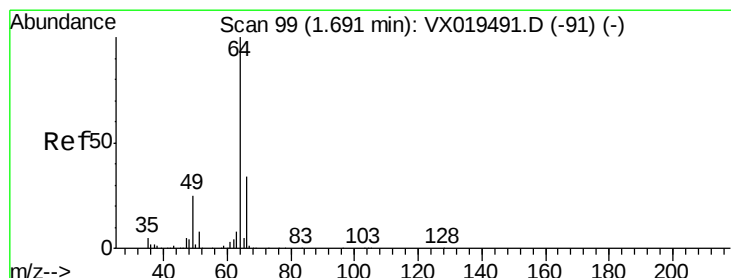
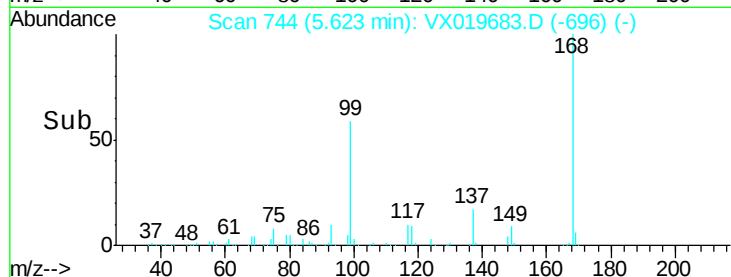
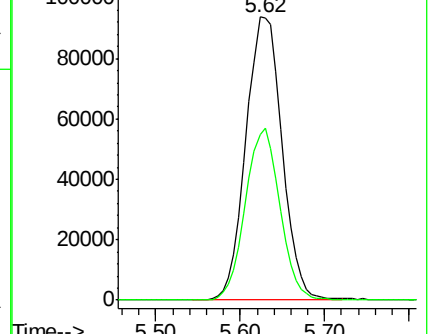
168 100

99 58.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 98

Delta R.T. -0.01 min

Lab File: VX019683.D

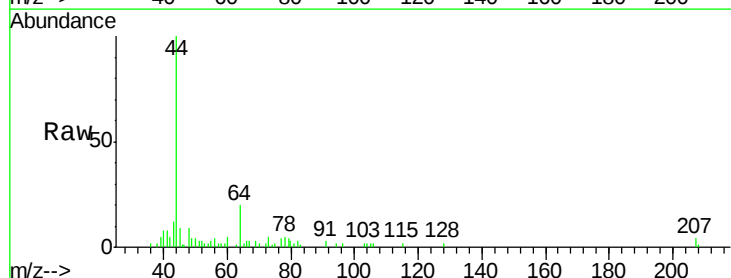
Acq: 30 Nov 2020 16:20

Tgt Ion: 64 Resp: 1417

Ion Ratio Lower Upper

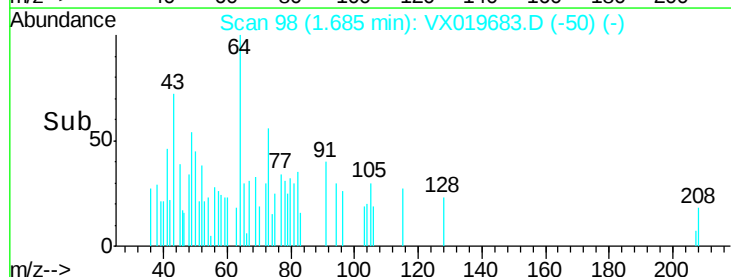
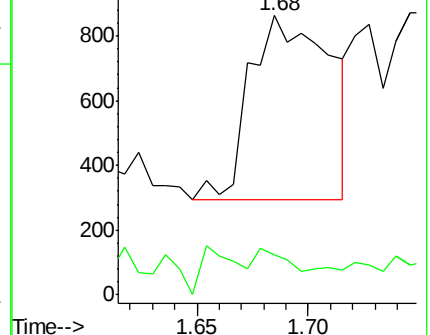
64 100

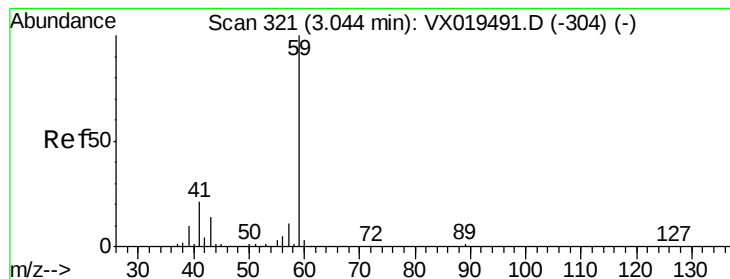
66 21.7 27.1 40.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



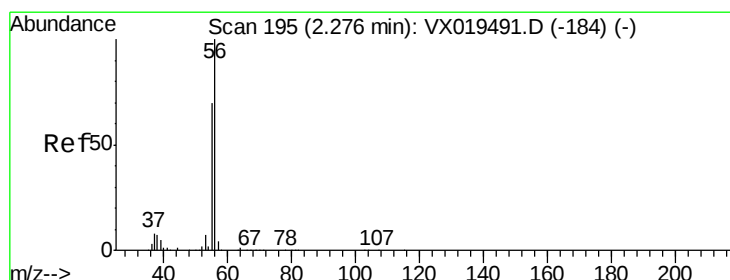
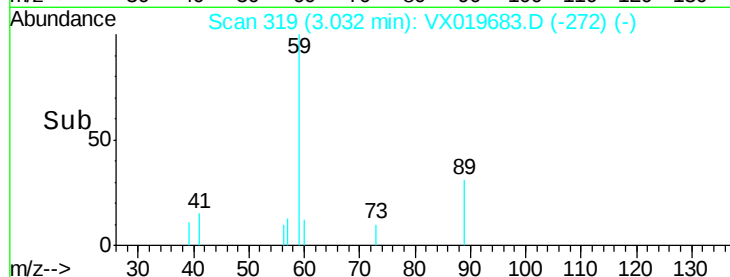
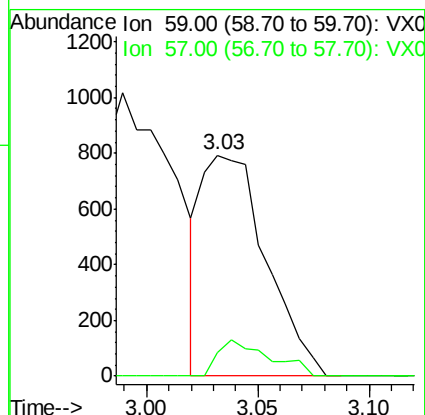
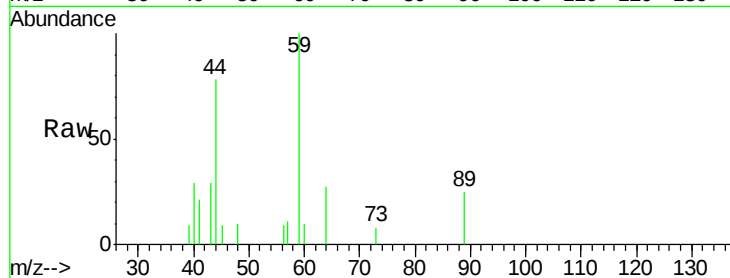


#11

Tert butyl alcohol
 Concen: 2.372 ug/l
 RT: 3.03 min Scan# 319
 Delta R.T. -0.01 min
 Lab File: VX019683.D
 Acq: 30 Nov 2020 16:20

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-3-4-COMP

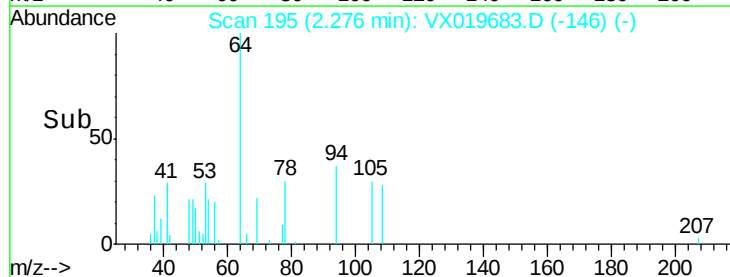
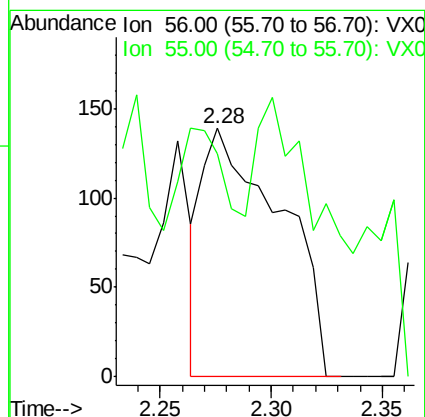
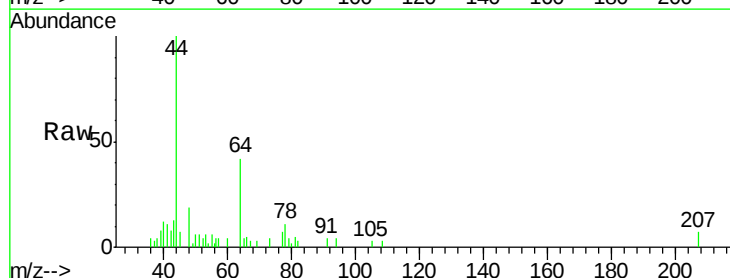
Tot Ion: 59 Resp: 1594
 Ion Ratio Lower Upper
 59 100
 57 13.0 7.9 11.9#

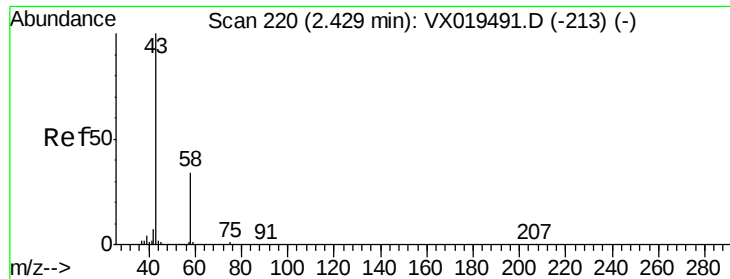


#13

Acrolein
 Concen: 0.751 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. -0.00 min
 Lab File: VX019683.D
 Acq: 30 Nov 2020 16:20

Tgt Ion: 56 Resp: 339
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.5 83.3#





#16

Acetone

Concen: 11.393 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019683.D

Acq: 30 Nov 2020 16:20

Instrument :

MSVOA_X

ClientSampled :

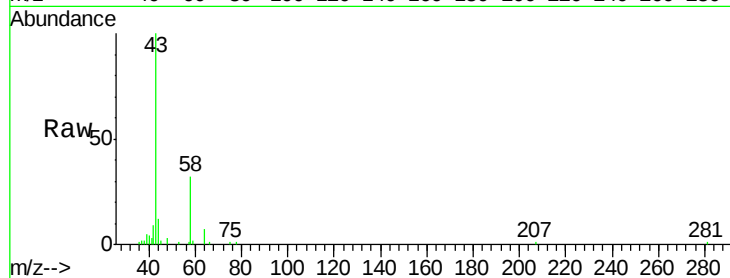
TP-3-4-COMP

Tot Ion: 43 Resp: 15643

Ion Ratio Lower Upper

43 100

58 32.0 27.4 41.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

10000

8000

6000

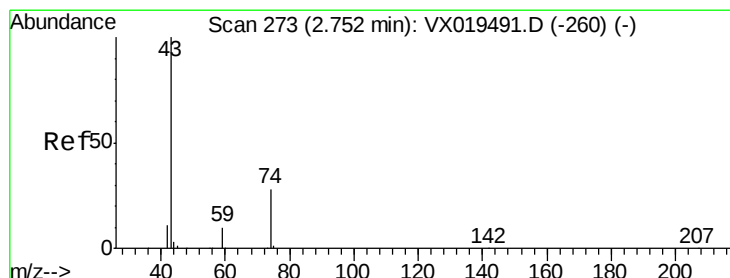
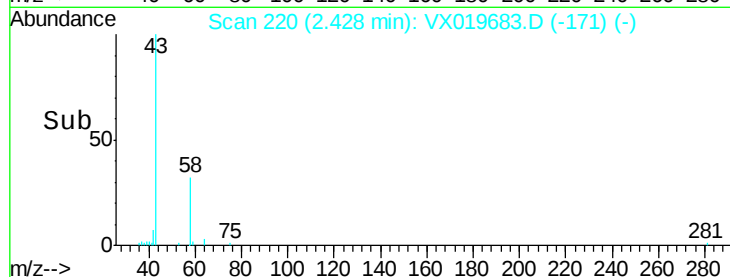
4000

2000

0

Time--> 2.30 2.40 2.50

2.43



#18

Methyl Acetate

Concen: 1.624 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX019683.D

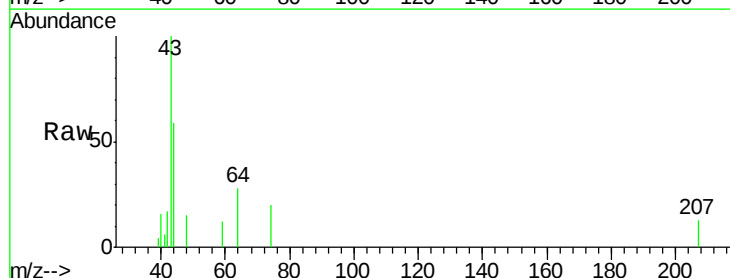
Acq: 30 Nov 2020 16:20

Tgt Ion: 43 Resp: 3375

Ion Ratio Lower Upper

43 100

74 19.6 22.2 33.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

1500

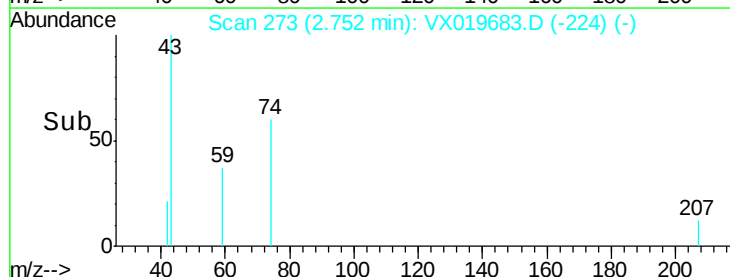
1000

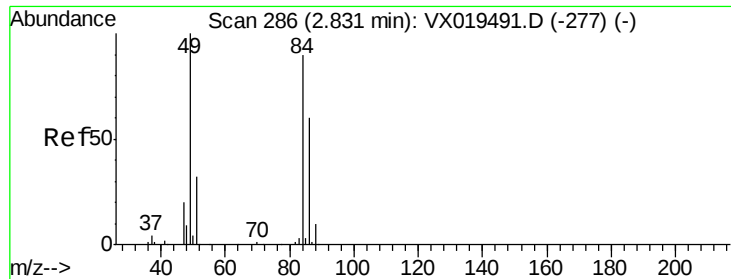
500

0

Time--> 2.65 2.70 2.75 2.80 2.85

2.75

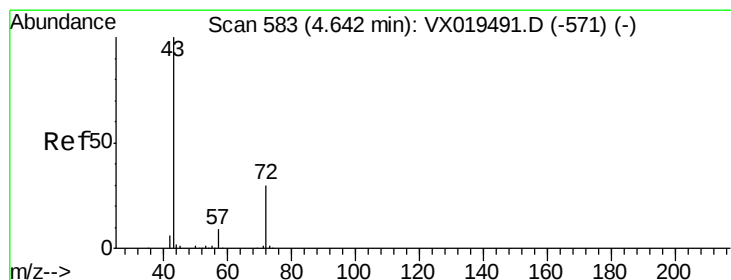
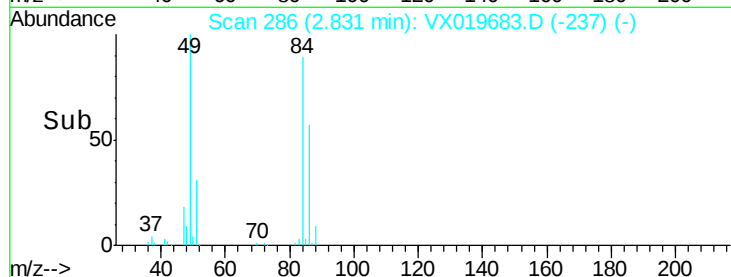
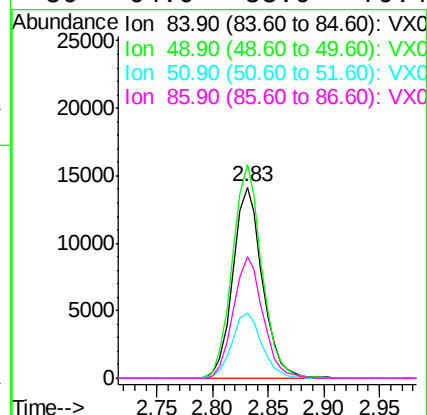
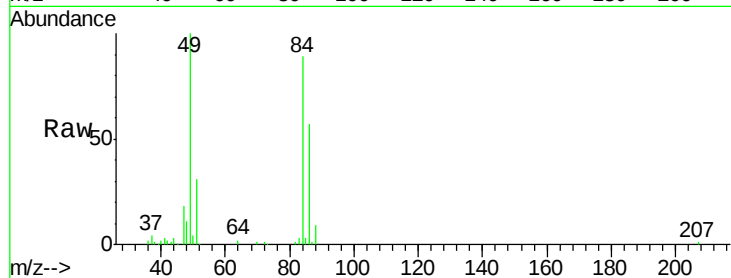




#20
Methvlene Chloride
Concen: 7.582 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX019683.D
Acq: 30 Nov 2020 16:20

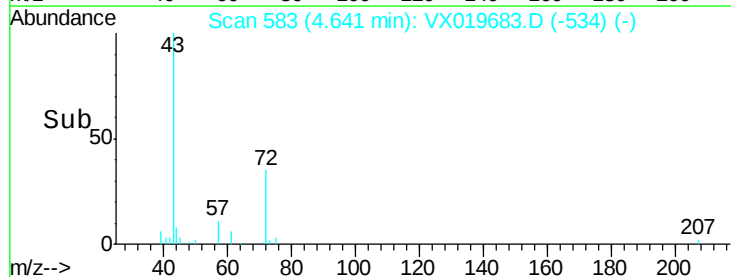
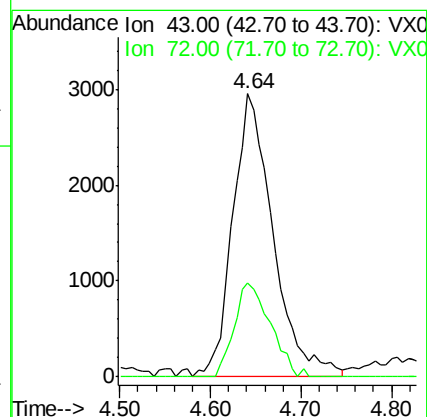
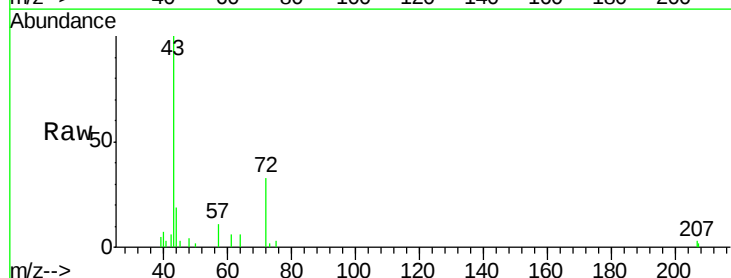
Instrument :
MSVOA_X
ClientSampleId :
TP-3-4-COMP

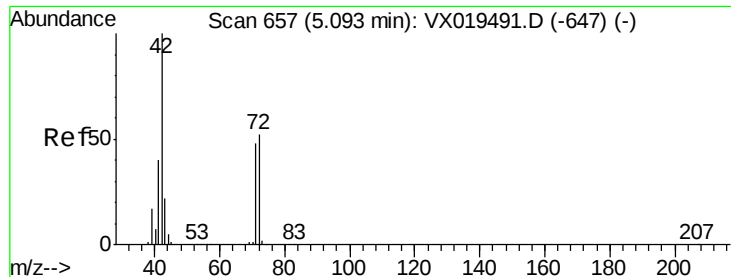
Tot Ion:	84	Resp:	26020
Ion	Ratio	Lower	Upper
84	100		
49	111.8	88.5	132.7
51	34.5	28.0	42.0
86	64.0	53.0	79.4



#25
2-Butanone
Concen: 4.426 ug/l
RT: 4.64 min Scan# 583
Delta R.T. -0.00 min
Lab File: VX019683.D
Acq: 30 Nov 2020 16:20

Tgt Ion:	43	Resp:	9129
Ion	Ratio	Lower	Upper
43	100		
72	33.4	24.0	36.0

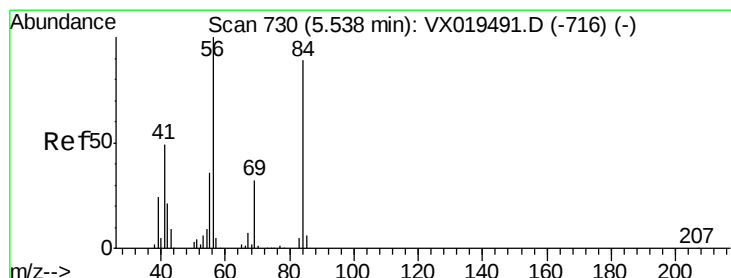
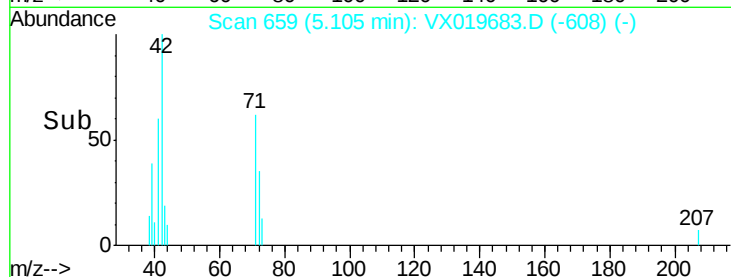
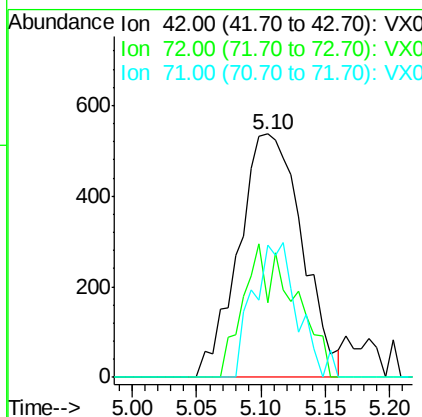
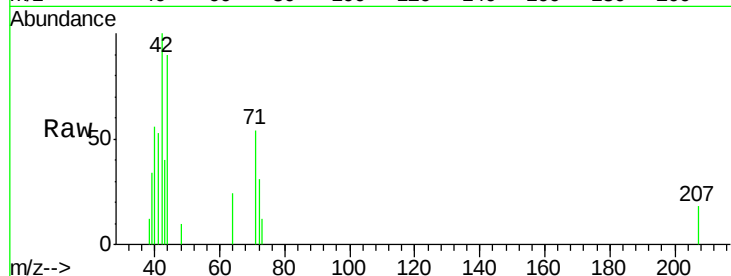




#29
Tetrahydrofuran
Concen: 1.391 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX019683.D
Acq: 30 Nov 2020 16:20

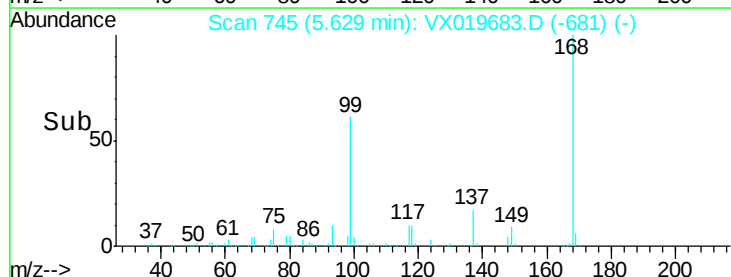
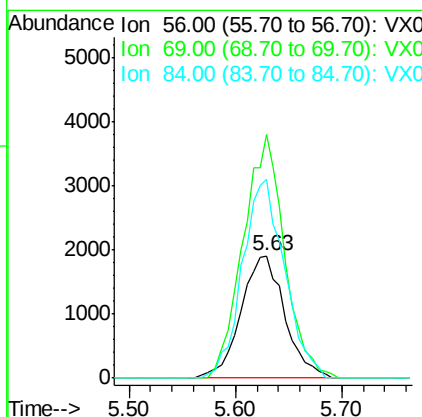
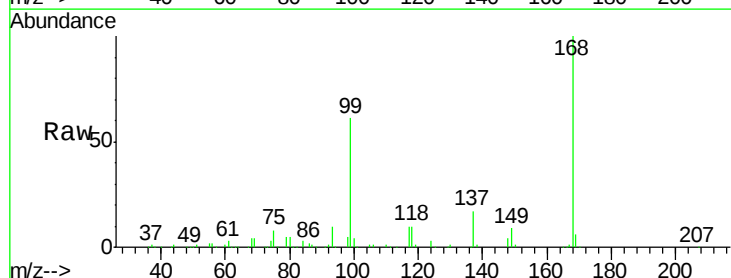
Instrument :
MSVOA_X
ClientSampleId :
TP-3-4-COMP

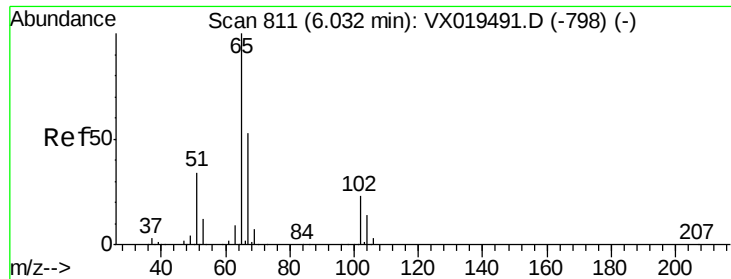
Tot Ion: 42 Resp: 1831
Ion Ratio Lower Upper
42 100
72 43.8 42.6 63.8
71 38.4 39.0 58.6#



#31
Cyclohexane
Concen: 1.190 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX019683.D
Acq: 30 Nov 2020 16:20

Tgt Ion: 56 Resp: 5496
Ion Ratio Lower Upper
56 100
69 199.2 25.5 38.3#
84 163.1 71.1 106.7#





#33

1,2-Dichloroethane-d4

Concen: 49.434 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019683.D

Acq: 30 Nov 2020 16:20

Instrument :

MSVOA_X

ClientSampleId :

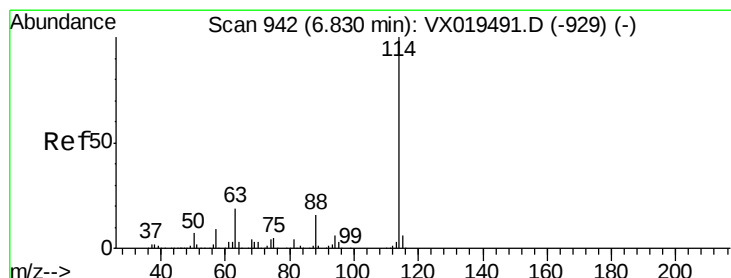
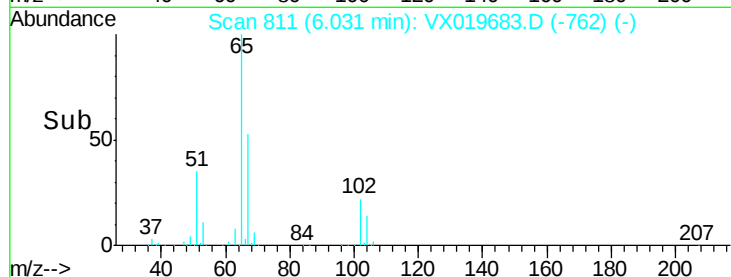
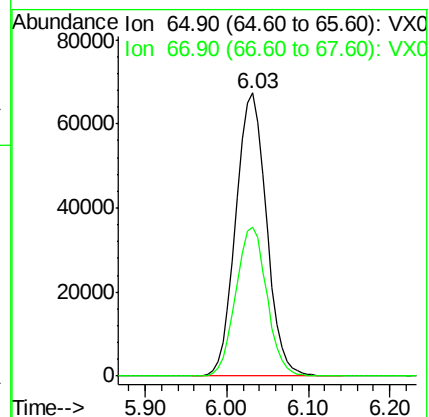
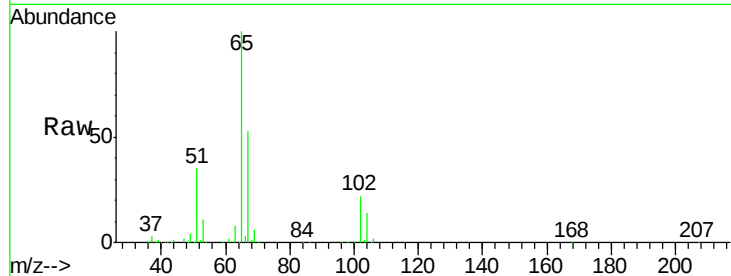
TP-3-4-COMP

Tot Ion: 65 Resp: 175520

Ion Ratio Lower Upper

65 100

67 53.1 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: VX019683.D

Acq: 30 Nov 2020 16:20

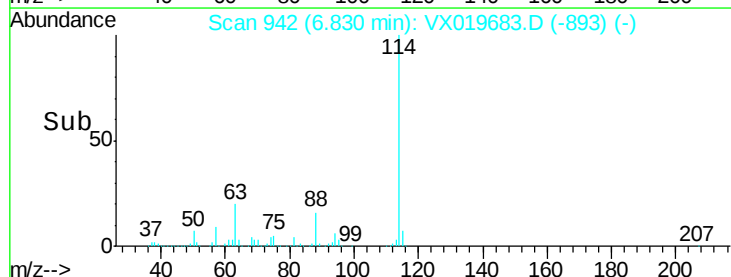
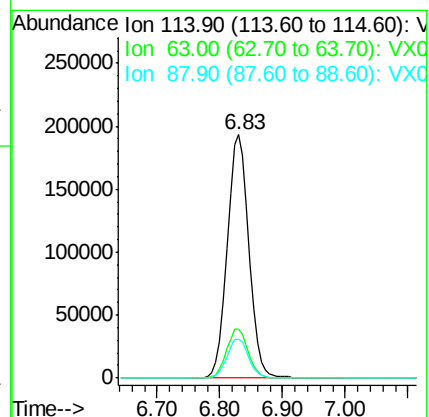
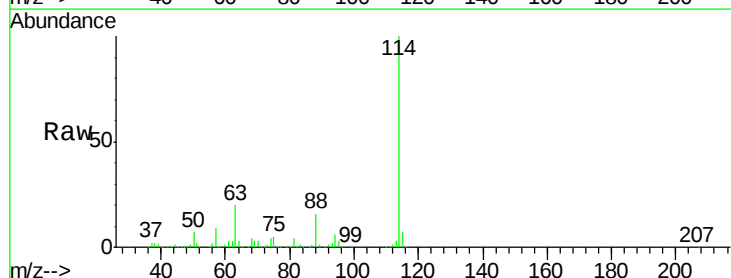
Tgt Ion: 114 Resp: 461145

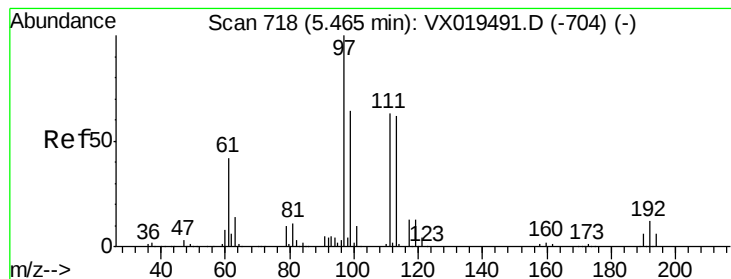
Ion Ratio Lower Upper

114 100

63 19.9 0.0 38.8

88 16.1 0.0 31.6





#35

Dibromofluoromethane

Concen: 48.122 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019683.D

Acq: 30 Nov 2020 16:20

Instrument :

MSVOA_X

ClientSampleId :

TP-3-4-COMP

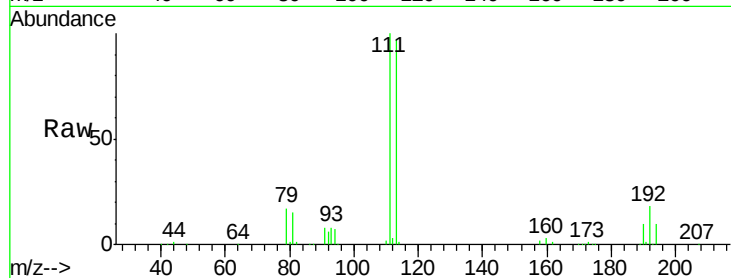
Tot Ion:113 Resp: 139295

Ion Ratio Lower Upper

113 100

111 102.7 81.5 122.3

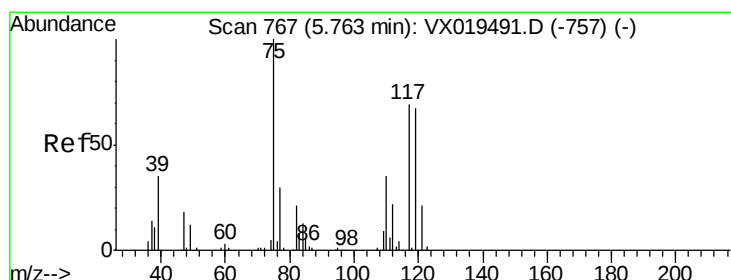
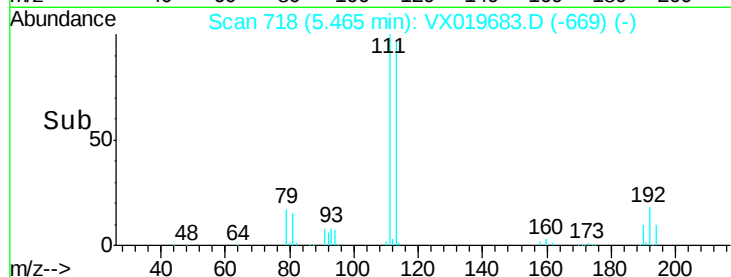
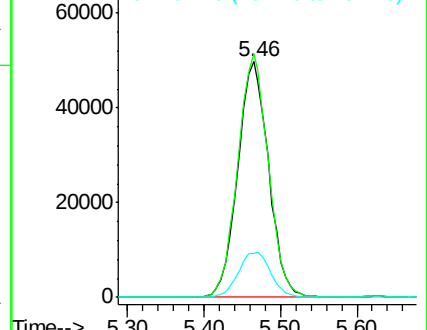
192 20.2 16.2 24.2



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: 4.838 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019683.D

Acq: 30 Nov 2020 16:20

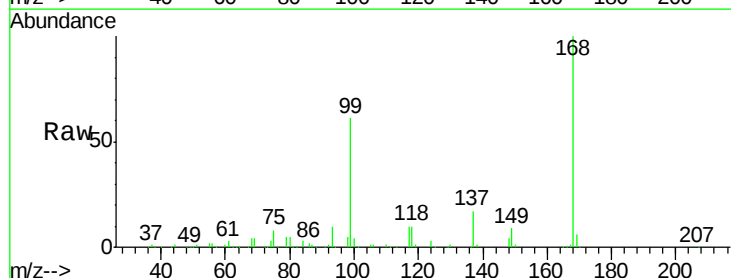
Tgt Ion: 75 Resp: 20918

Ion Ratio Lower Upper

75 100

110 8.5 18.1 54.3#

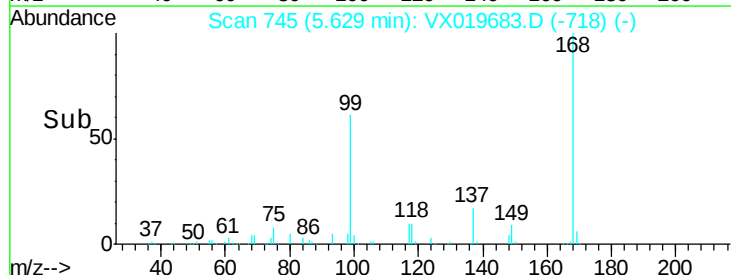
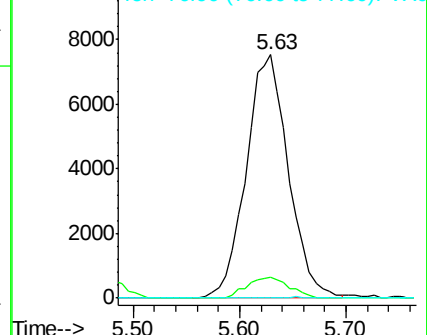
77 0.0 24.2 36.4#

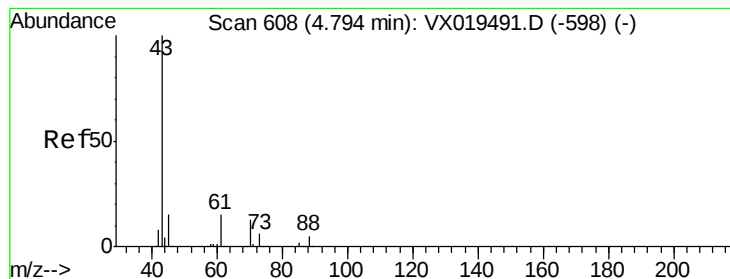


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 2.249 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.15 min

Lab File: VX019683.D

Acq: 30 Nov 2020 16:20

Instrument :

MSVOA_X

ClientSampleId :

TP-3-4-COMP

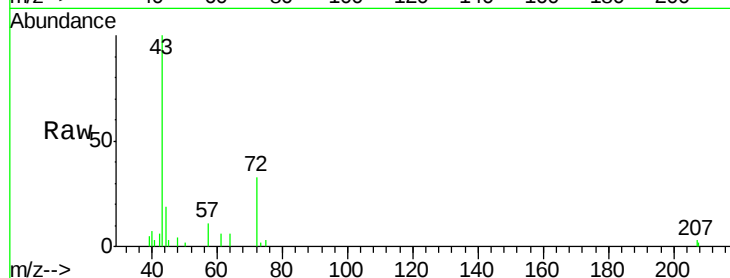
Tot Ion: 43 Resp: 9129

Ion Ratio Lower Upper

43 100

61 0.0 12.7 19.1#

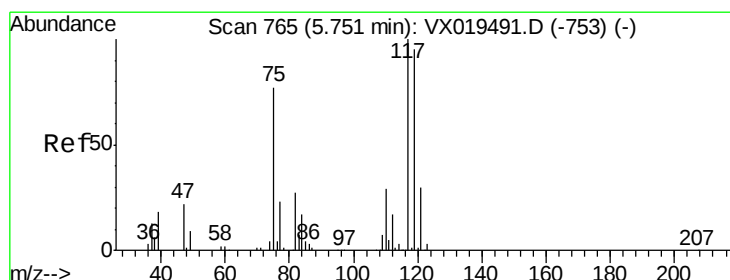
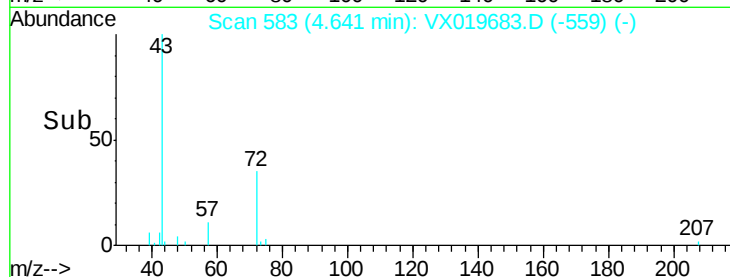
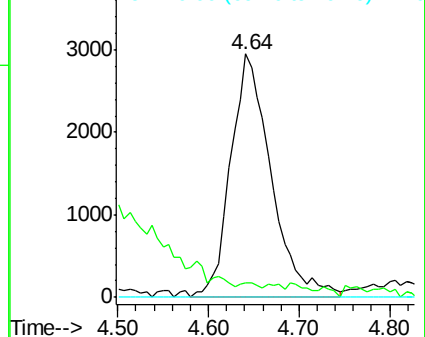
70 0.0 10.2 15.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 6.430 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019683.D

Acq: 30 Nov 2020 16:20

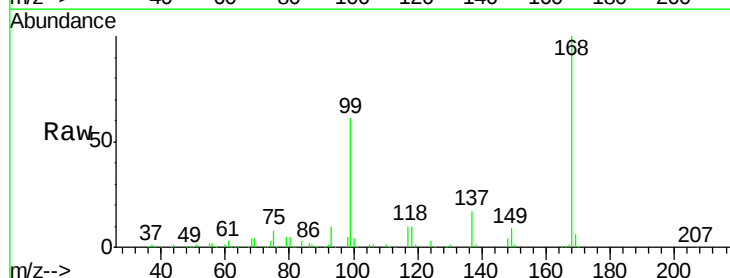
Tgt Ion: 117 Resp: 26906

Ion Ratio Lower Upper

117 100

119 5.6 75.9 113.9#

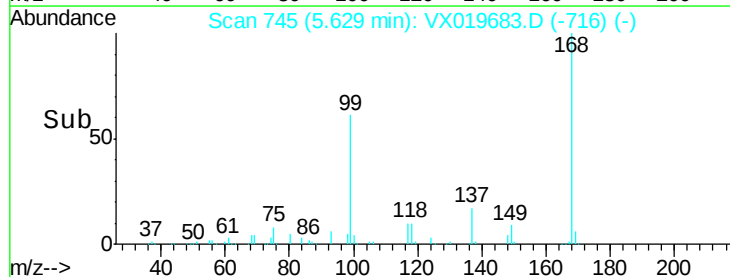
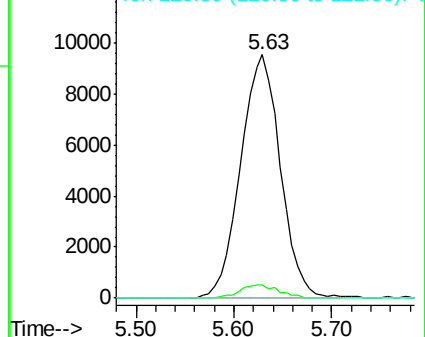
121 0.0 24.0 36.0#

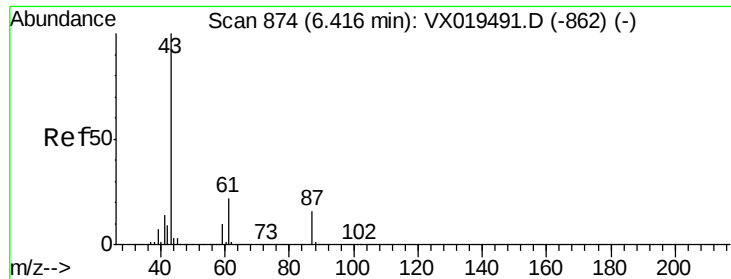


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



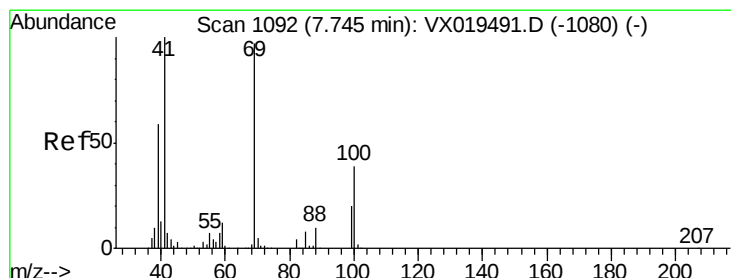
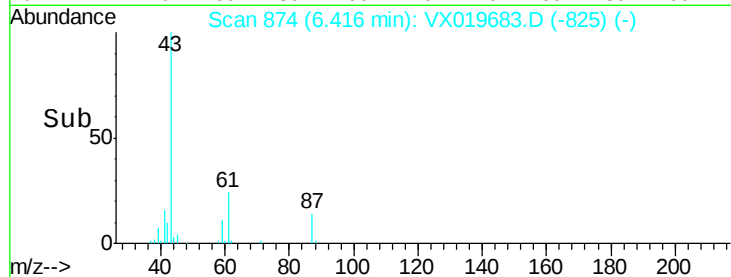
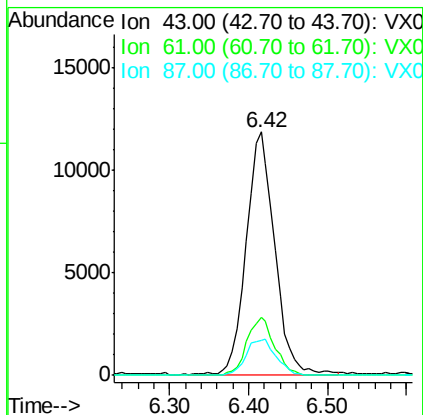
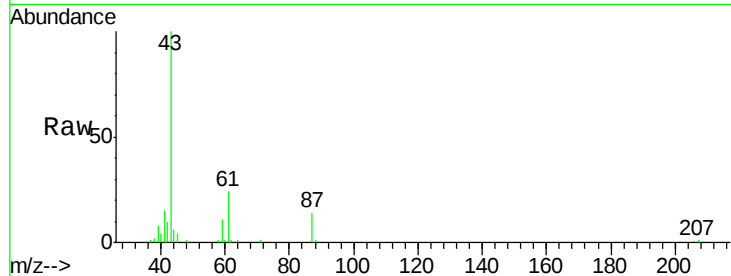


#43

Isopropyl Acetate
 Concen: 4.397 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. -0.00 min
 Lab File: VX019683.D
 Acq: 30 Nov 2020 16:20

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-3-4-COMP

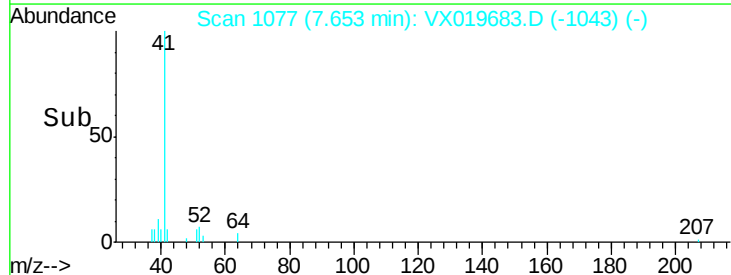
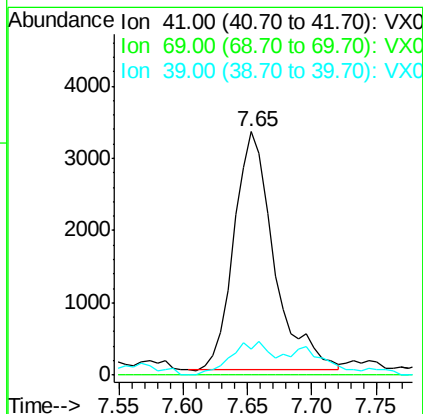
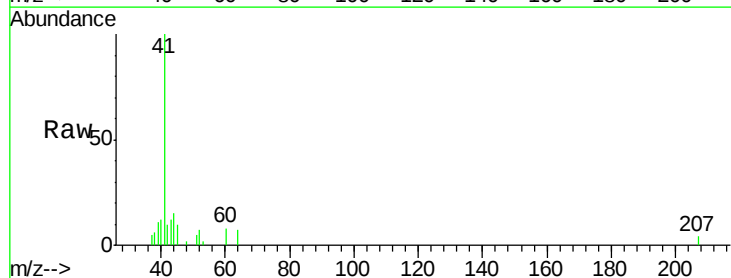
Tot Ion	43	Resp	29996
Ion Ratio	Lower	Upper	
43	100		
61	22.9	18.2	27.2
87	15.2	12.6	18.8

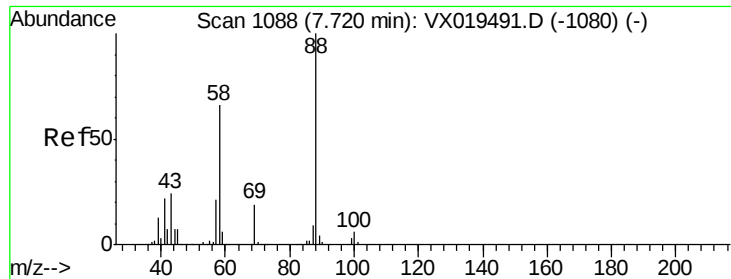


#48

Methyl methacrylate
 Concen: 2.226 ug/l
 RT: 7.65 min Scan# 1077
 Delta R.T. -0.09 min
 Lab File: VX019683.D
 Acq: 30 Nov 2020 16:20

Tgt Ion	41	Resp	7113
Ion Ratio	Lower	Upper	
41	100		
69	0.0	77.0	115.6#
39	0.0	45.6	68.4#

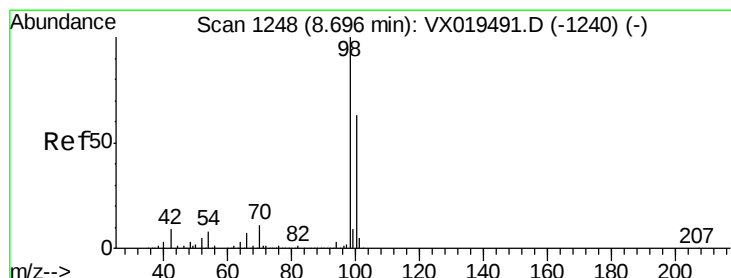
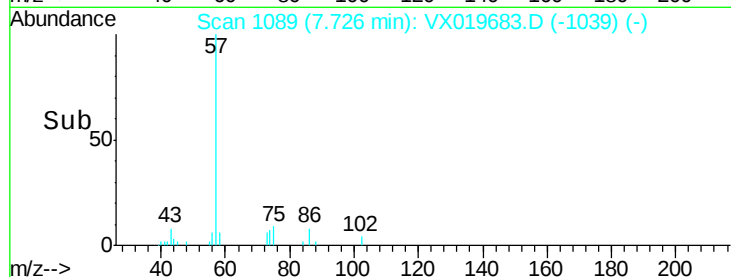
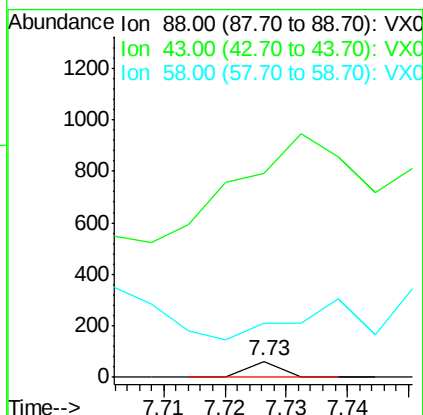
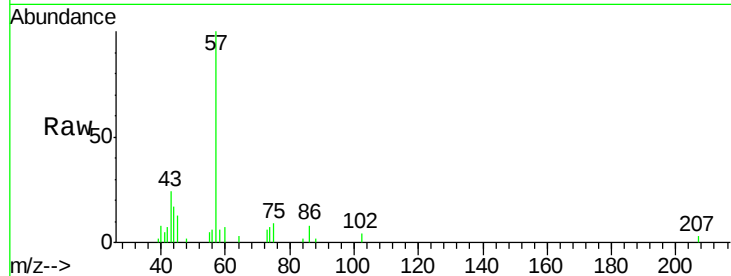




#49
1,4-Dioxane
Concen: 0.317 ug/l
RT: 7.73 min Scan# 1089
Delta R.T. 0.01 min
Lab File: VX019683.D
Acq: 30 Nov 2020 16:20

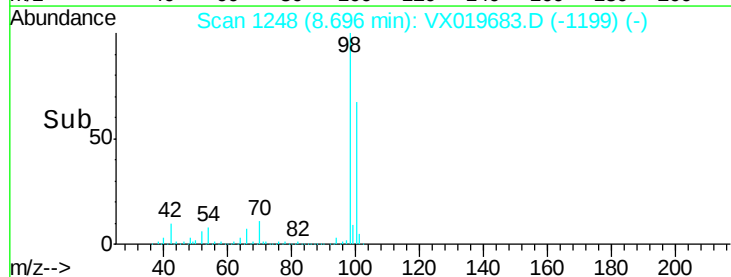
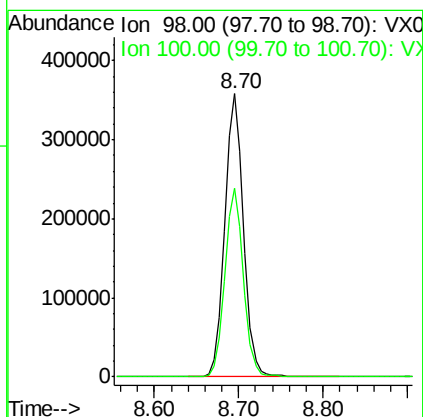
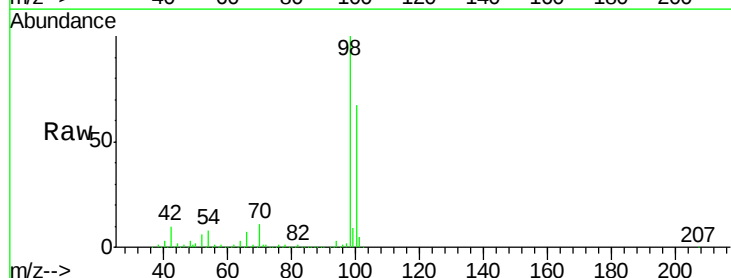
Instrument :
MSVOA_X
ClientSampleId :
TP-3-4-COMP

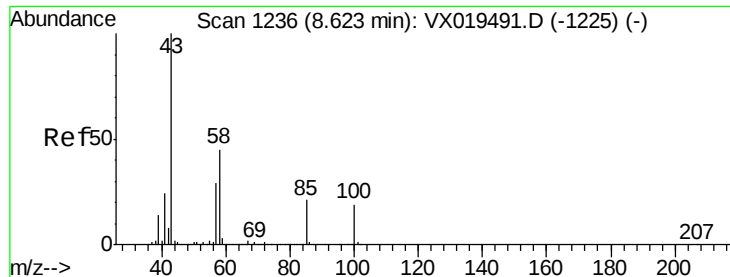
Tot Ion: 88 Resp: 23
Ion Ratio Lower Upper
88 100
43 0.0 23.8 35.6#
58 0.0 54.2 81.2#



#50
Toluene-d8
Concen: 48.616 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019683.D
Acq: 30 Nov 2020 16:20

Tgt Ion: 98 Resp: 546845
Ion Ratio Lower Upper
98 100
100 66.4 52.4 78.6





#51

4-Methyl-2-Pentanone

Concen: 22.573 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX019683.D

Acq: 30 Nov 2020 16:20

Instrument :

MSVOA_X

ClientSampleId :

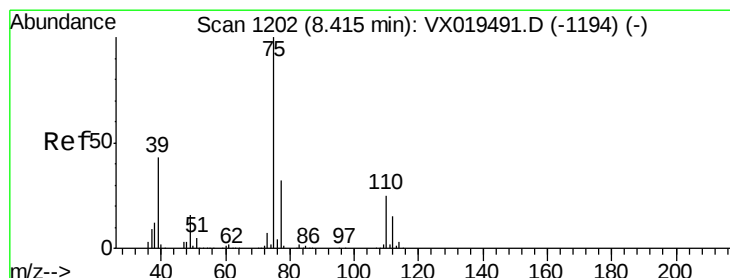
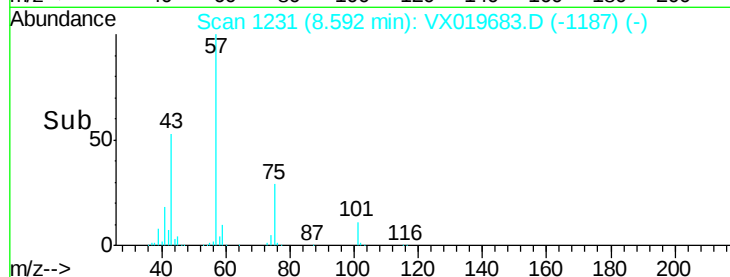
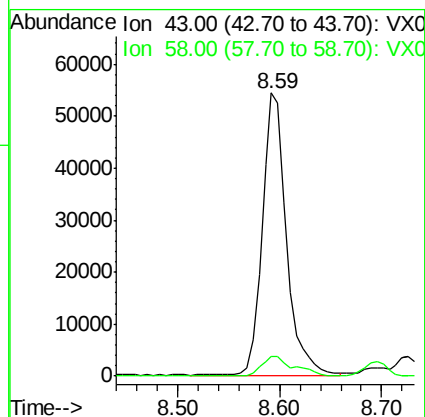
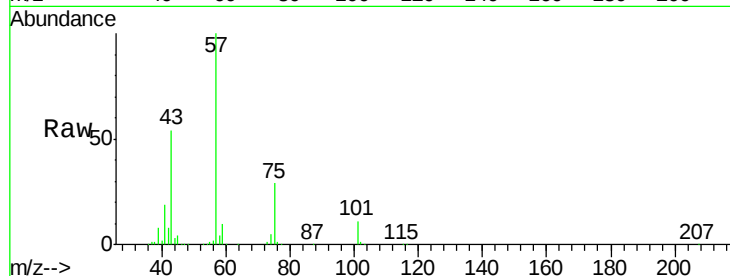
TP-3-4-COMP

Tot Ion: 43 Resp: 89806

Ion Ratio Lower Upper

43 100

58 9.4 35.1 52.7#



#54

cis-1,3-Dichloropropene

Concen: 9.158 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX019683.D

Acq: 30 Nov 2020 16:20

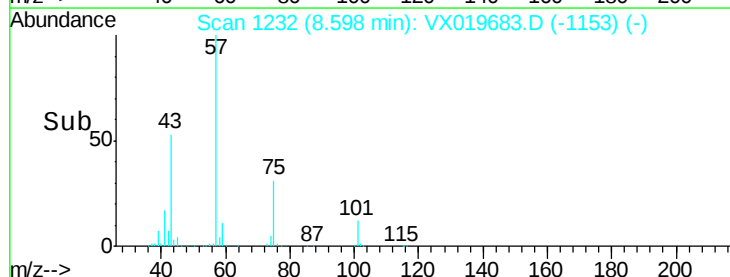
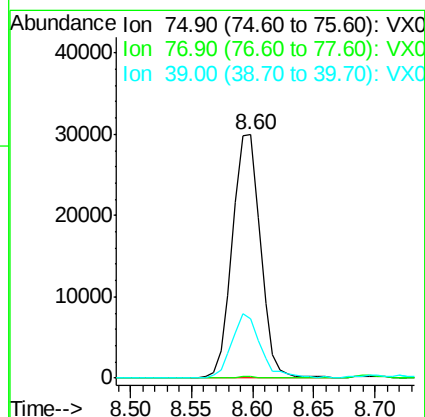
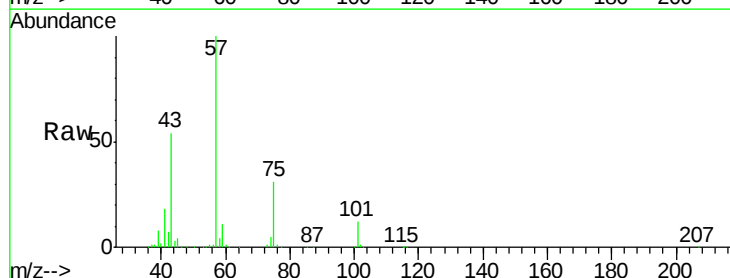
Tgt Ion: 75 Resp: 47667

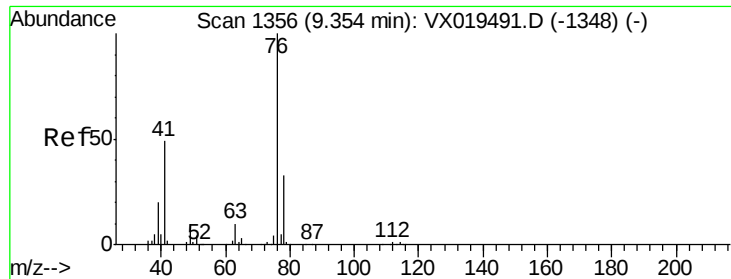
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

39 24.6 34.6 51.8#

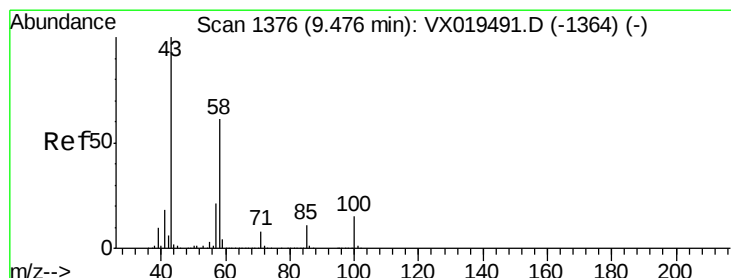
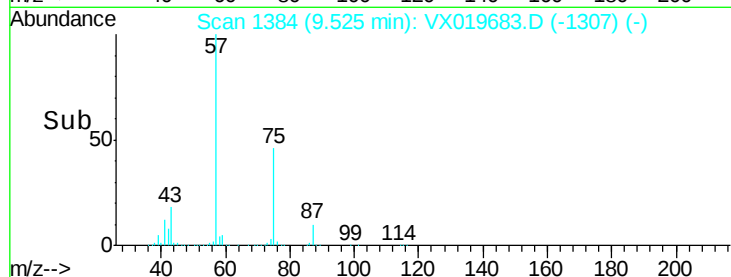
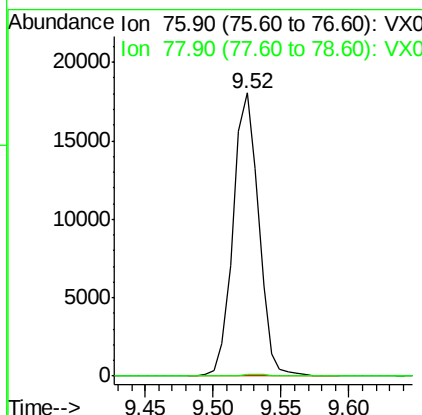
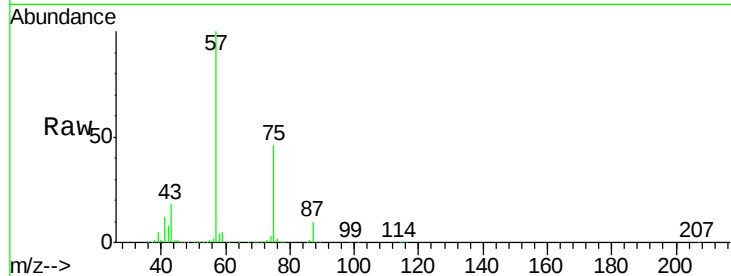




#57
 1,3-Dichloropropane
 Concen: 4.285 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX019683.D
 Acq: 30 Nov 2020 16:20

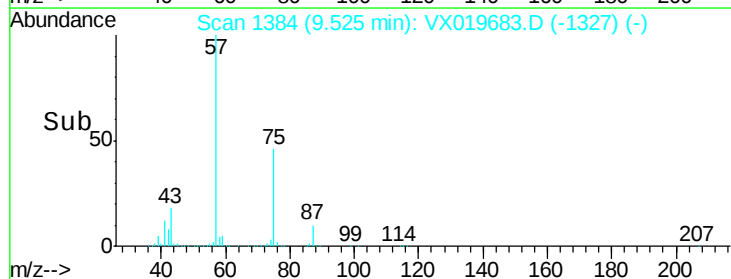
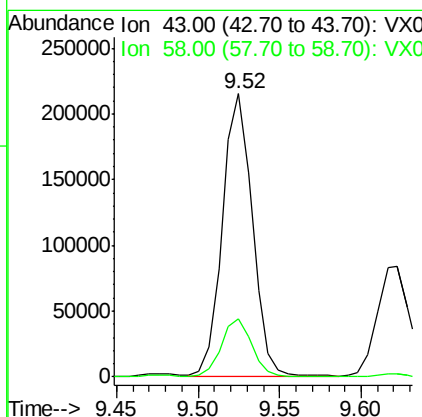
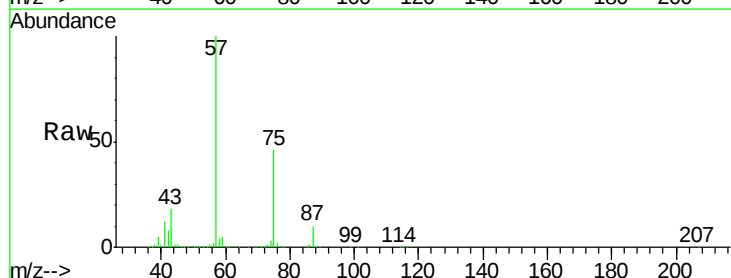
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-3-4-COMP

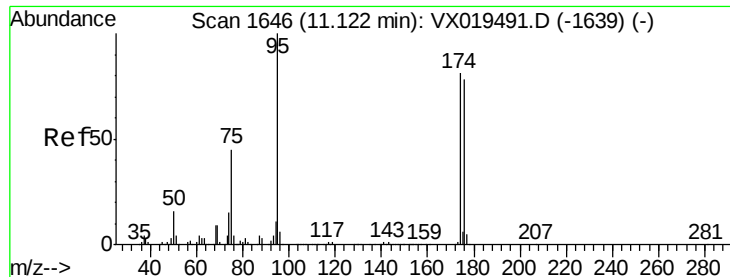
Tot Ion: 76 Resp: 23741
 Ion Ratio Lower Upper
 76 100
 78 0.8 25.7 38.5#



#59
 2-Hexanone
 Concen: 90.436 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX019683.D
 Acq: 30 Nov 2020 16:20

Tgt Ion: 43 Resp: 272875
 Ion Ratio Lower Upper
 43 100
 58 21.2 30.6 91.6#





#62

4-Bromofluorobenzene

Concen: 45.847 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019683.D

Acq: 30 Nov 2020 16:20

Instrument :

MSVOA_X

ClientSampleId :

TP-3-4-COMP

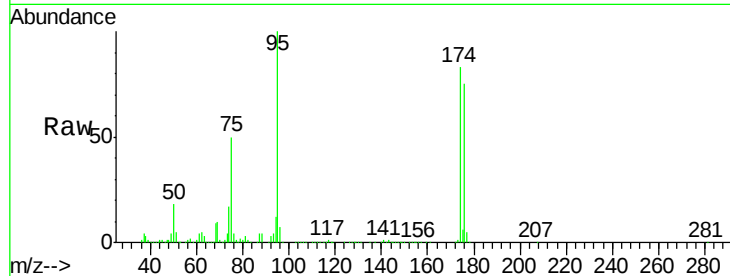
Tot Ion: 95 Resp: 185541

Ion Ratio Lower Upper

95 100

174 78.9 0.0 156.2

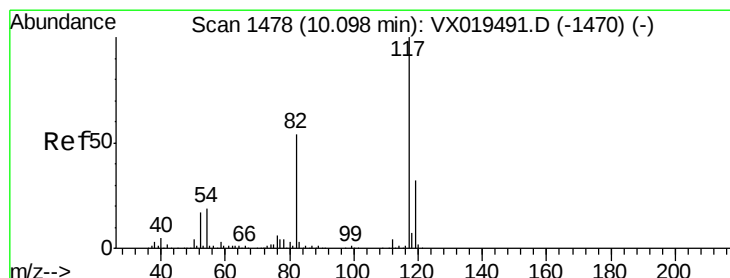
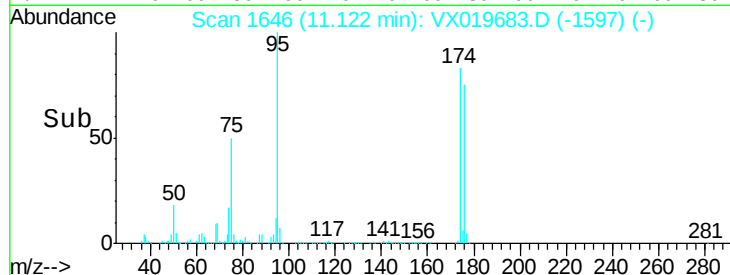
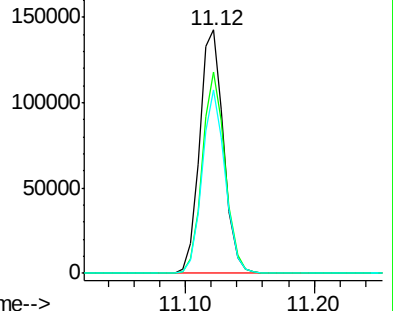
176 72.1 0.0 151.4



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) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019683.D

Acq: 30 Nov 2020 16:20

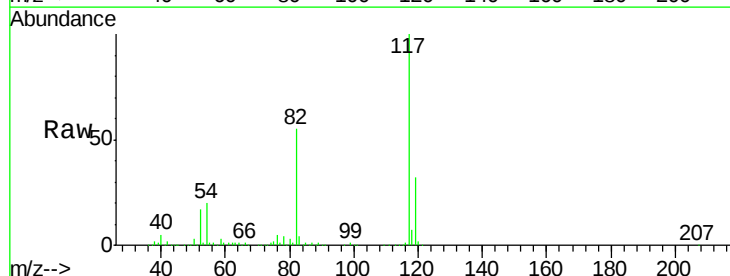
Tgt Ion: 117 Resp: 407346

Ion Ratio Lower Upper

117 100

82 54.7 43.0 64.4

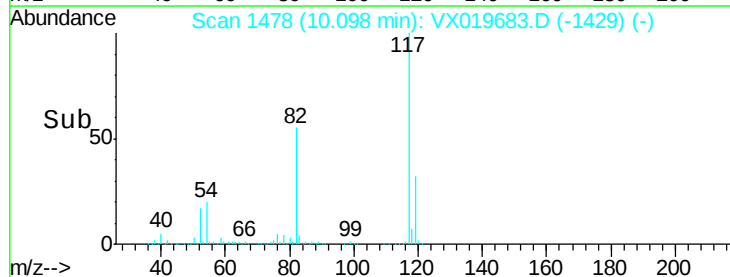
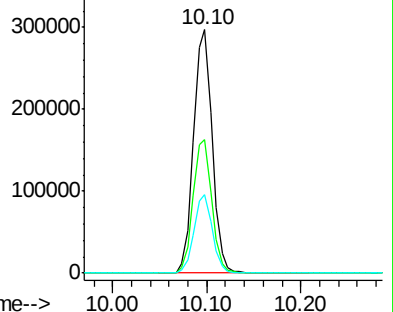
119 32.0 25.6 38.4

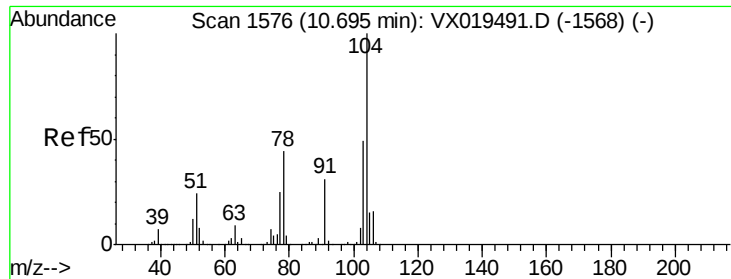


Abundance Ion 116.90 (116.60 to 117.60): VX019491.D (-1470) (-)

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

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

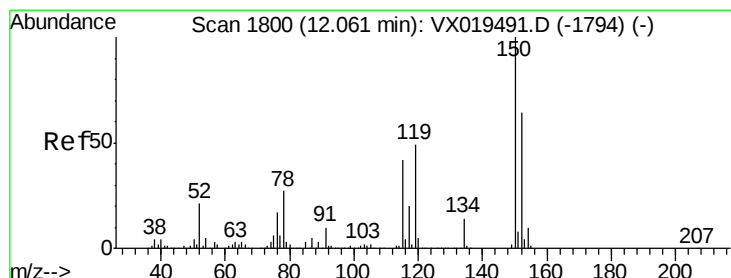
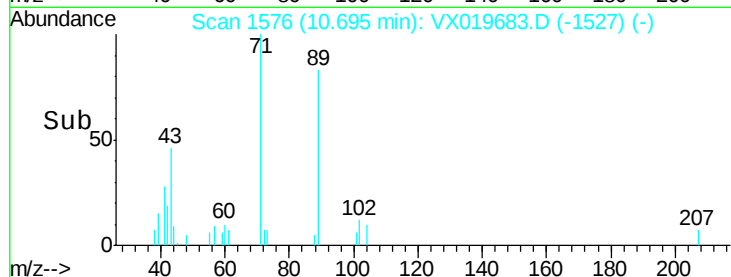
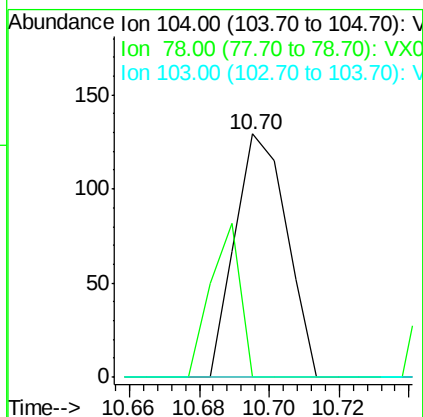
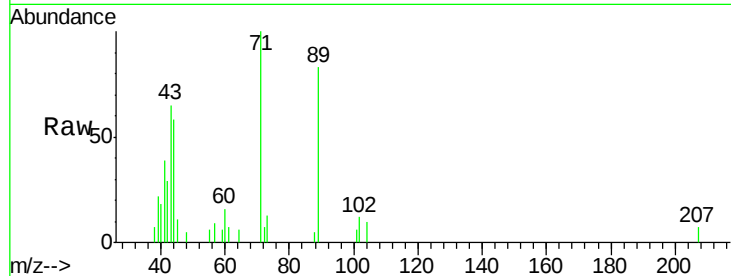




#70
Stvrene
Concen: 1.659 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019683.D
Acq: 30 Nov 2020 16:20

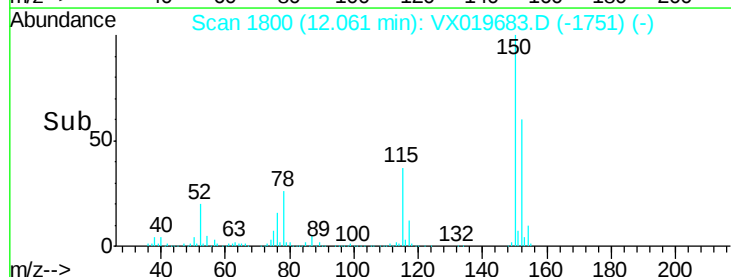
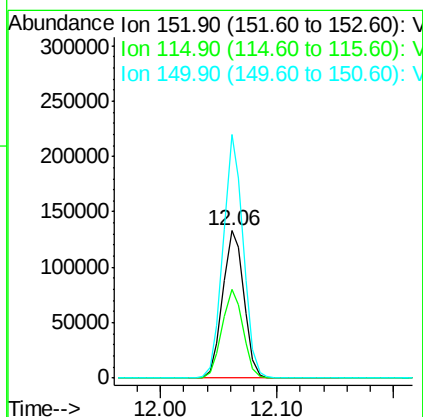
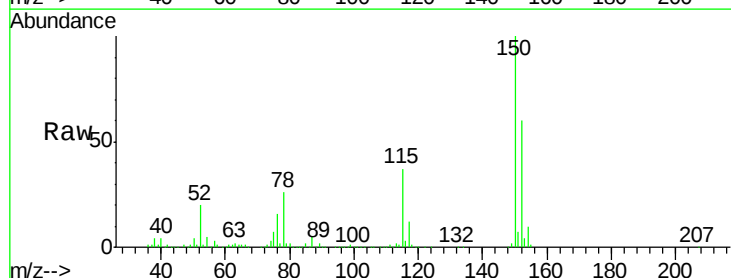
Instrument :
MSVOA_X
ClientSampleId :
TP-3-4-COMP

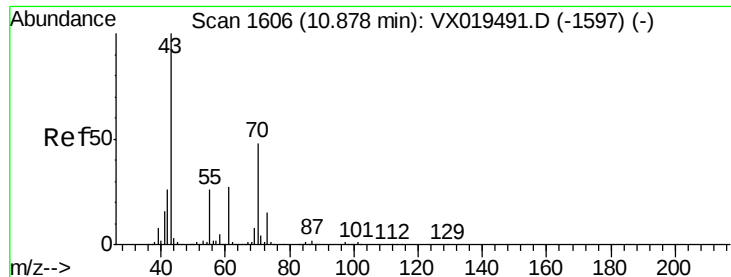
Tot Ion:104 Resp: 133
Ion Ratio Lower Upper
104 100
78 36.1 39.5 59.3#
103 0.0 43.6 65.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019683.D
Acq: 30 Nov 2020 16:20

Tgt Ion:152 Resp: 166985
Ion Ratio Lower Upper
152 100
115 59.9 41.8 125.4
150 156.9 0.0 348.2





#74

N-amvl acetate

Concen: 0.418 ug/l

RT: 10.81 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019683.D

Acq: 30 Nov 2020 16:20

Instrument :

MSVOA_X

ClientSampleId :

TP-3-4-COMP

Tot Ion: 43 Resp: 1810

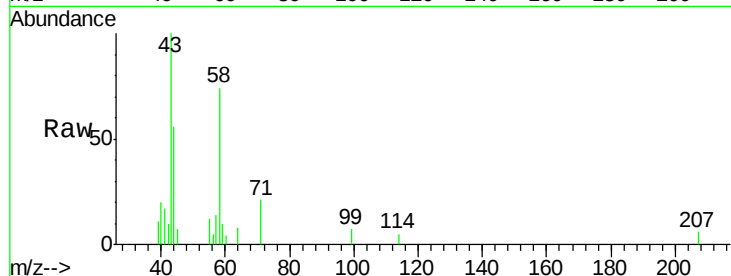
Ion Ratio Lower Upper

43 100

70 0.0 39.7 59.5#

55 12.7 21.8 32.6#

61 0.0 22.2 33.4#

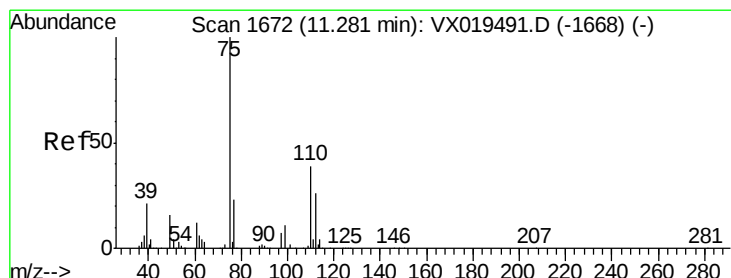
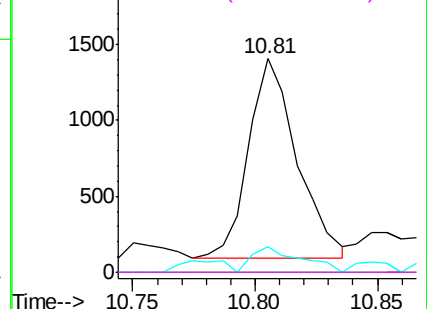
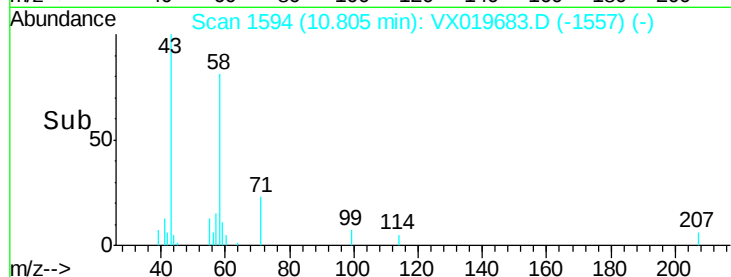


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.661 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019683.D

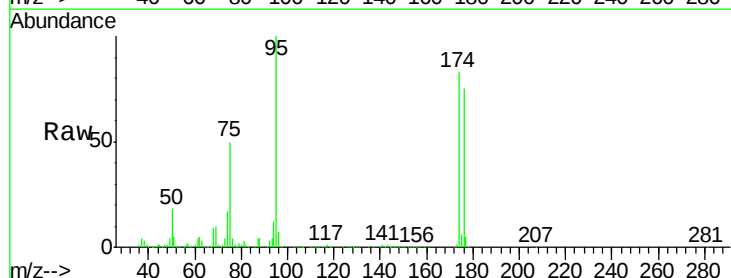
Acq: 30 Nov 2020 16:20

Tgt Ion: 75 Resp: 89869

Ion Ratio Lower Upper

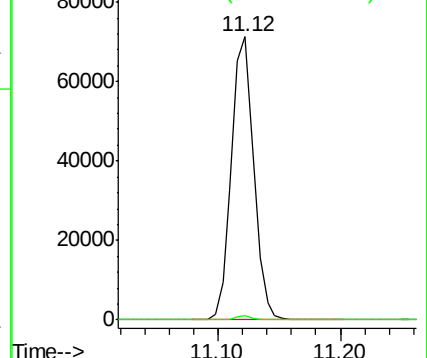
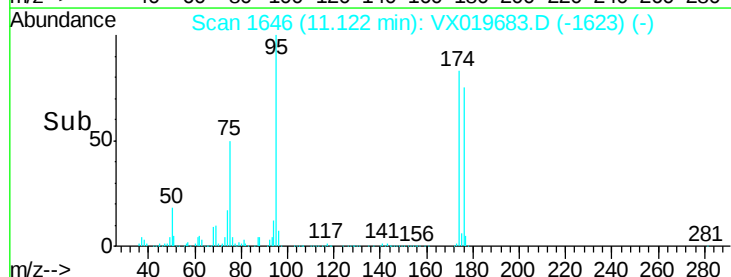
75 100

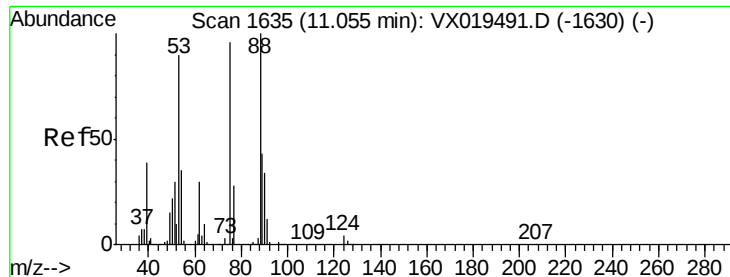
77 1.2 20.0 60.0#



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: 65.201 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019683.D

Acq: 30 Nov 2020 16:20

Instrument :

MSVOA_X

ClientSampleId :

TP-3-4-COMP

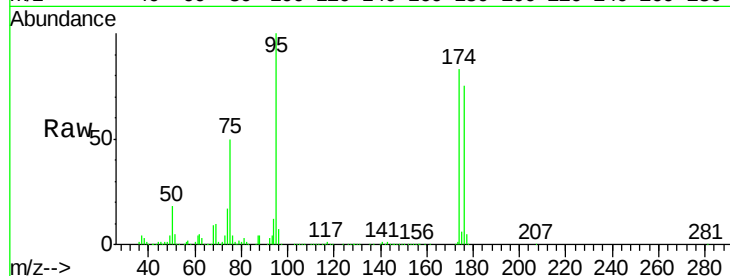
Tot Ion: 75 Resp: 89869

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

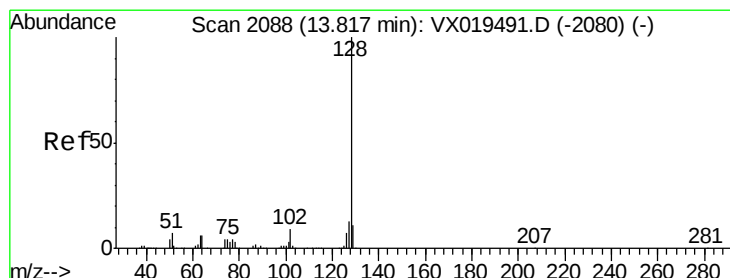
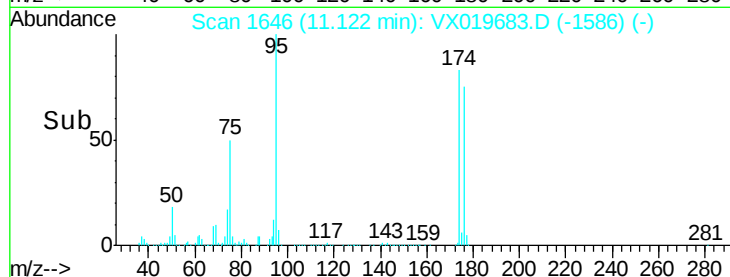
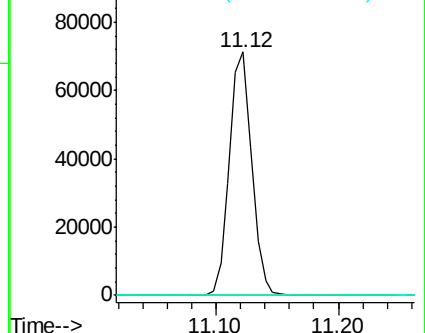
89 0.0 37.3 55.9#



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



#95

Naphthalene

Concen: 2.203 ug/l

RT: 13.82 min Scan# 2089

Delta R.T. 0.01 min

Lab File: VX019683.D

Acq: 30 Nov 2020 16:20

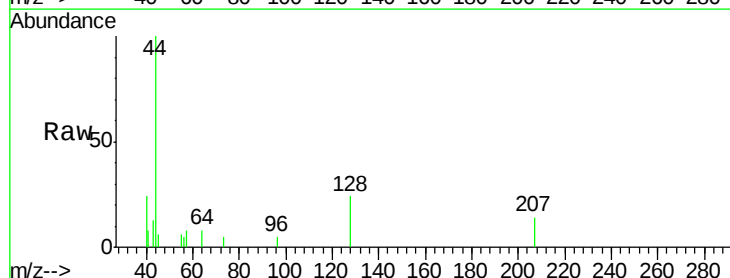
Tgt Ion: 128 Resp: 317

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 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

