

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112020\
 Data File : VX019483.D
 Acq On : 19 Nov 2020 22:00
 Operator : JC/MD
 Sample : L4801-02 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

Quant Time: Nov 20 01:39:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 20 01:06:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	44444	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.82	114	237552	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	224430	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	97545	30.54	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.80%
60) 4-Bromofluorobenzene	11.12	95	108050	29.52	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.40%
63) Toluene-d8	8.70	98	290917	29.08	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.93%

Target Compounds

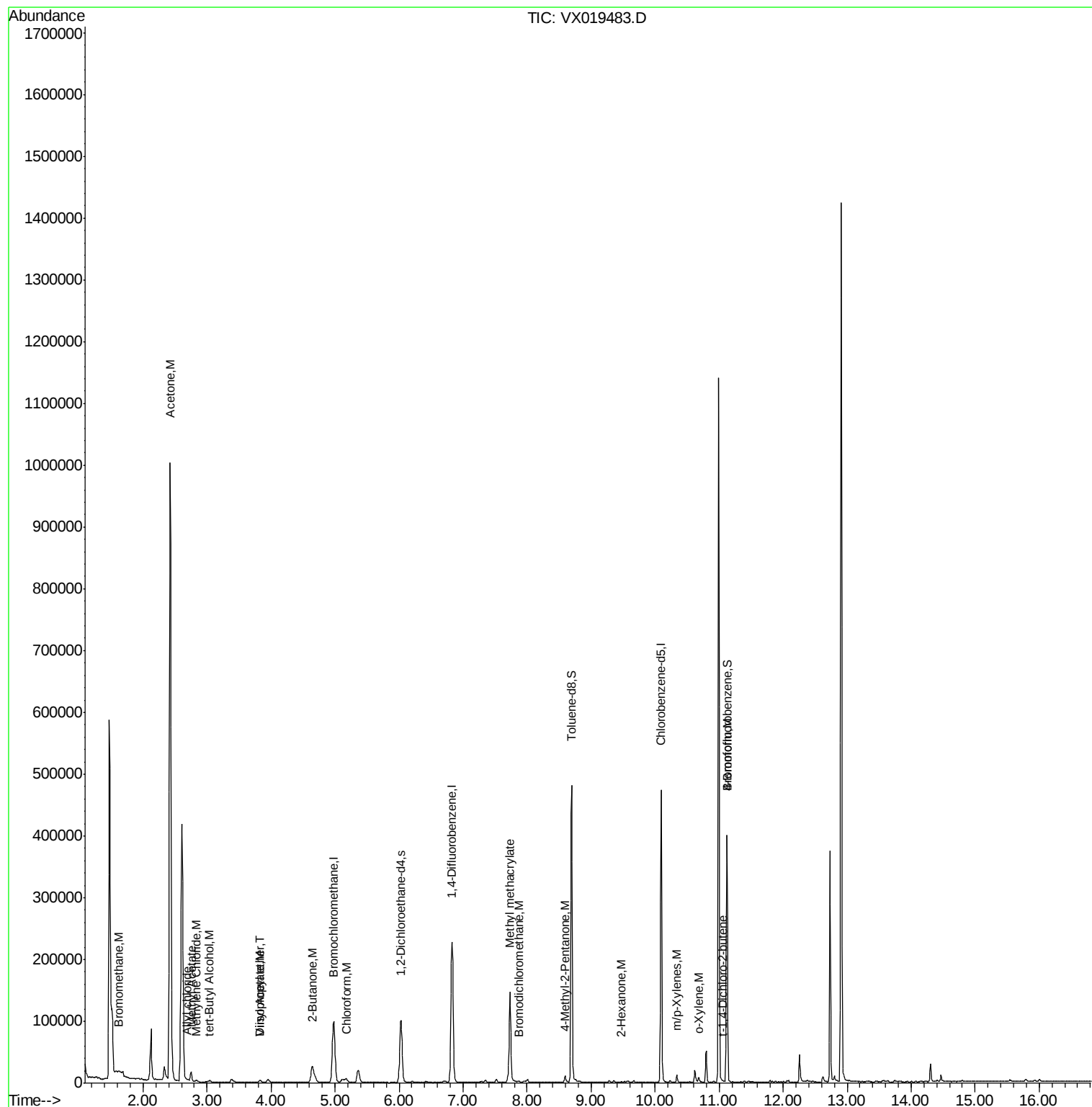
					Ovalue
5) Bromomethane	1.62	94	461	0.400 ug/l	93
12) Methyl Acetate	2.75	43	17533	5.943 ug/l	95
15) Acetone	2.42	58	359476	860.286 ug/l	98
17) Allyl chloride	2.69	41	1724	0.466 ug/l #	39
18) Methylene Chloride	2.83	84	1200	0.403 ug/l	92
20) Diisopropyl ether	3.82	45	3344	0.421 ug/l #	78
23) tert-Butyl Alcohol	3.04	59	3795	6.141 ug/l #	100
25) Chloroform	5.17	83	6706	1.321 ug/l	88
30) 2-Butanone	4.64	43	44326	24.041 ug/l	100
41) Bromodichloromethane	7.87	83	793	0.207 ug/l #	70
42) Vinyl Acetate	3.82	43	2057	0.310 ug/l #	71
46) Methyl methacrylate	7.73	41	2802	0.994 ug/l #	39
56) Bromoform	11.12	173	669	0.325 ug/l #	1
58) 4-Methyl-2-Pentanone	8.59	43	4177	1.165 ug/l #	44
59) 2-Hexanone	9.48	43	680	0.246 ug/l	97
67) m/p-Xylenes	10.34	106	3056	0.593 ug/l	93
68) o-Xylene	10.68	106	1141	0.234 ug/l	96
77) t-1,4-Dichloro-2-butene	11.06	75	431	0.310 ug/l #	40

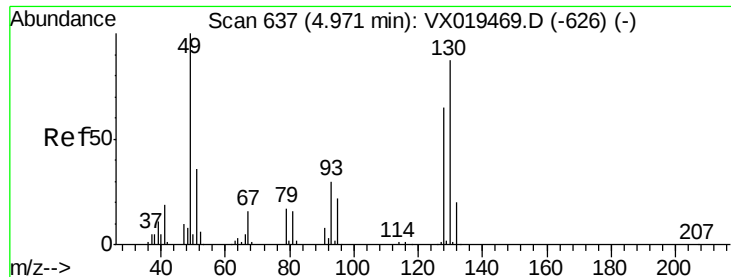
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 20 01:39:22 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 20 01:06:02 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 638

Delta R.T. 0.01 min

Lab File: VX019483.D

Acq: 19 Nov 2020 22:00

Instrument :

MSVOA_X

ClientSampled :

EFF-WW

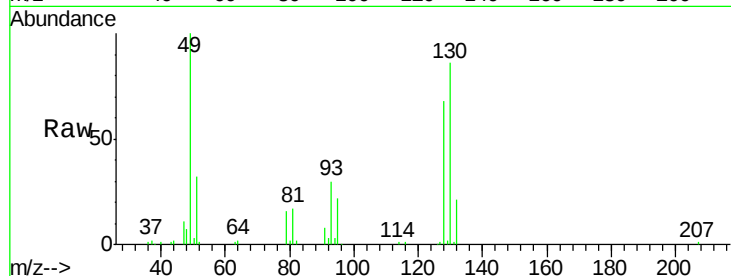
Tot Ion:128 Resp: 44444

Ion Ratio Lower Upper

128 100

49 147.8 0.0 377.8

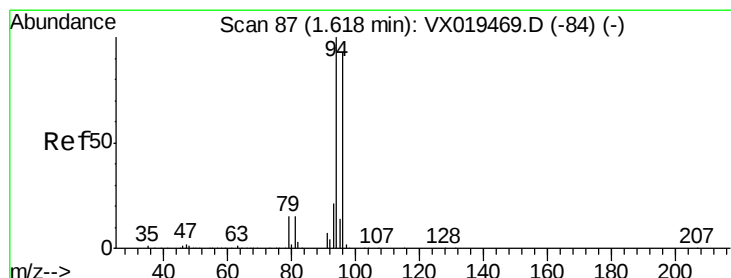
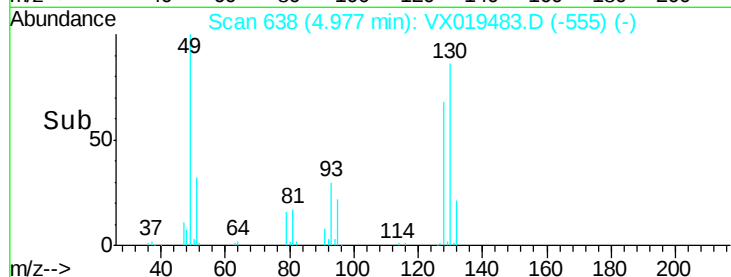
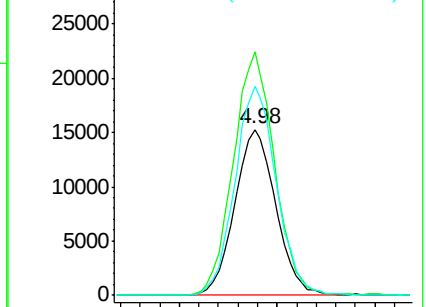
130 127.1 0.0 324.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.400 ug/l

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VX019483.D

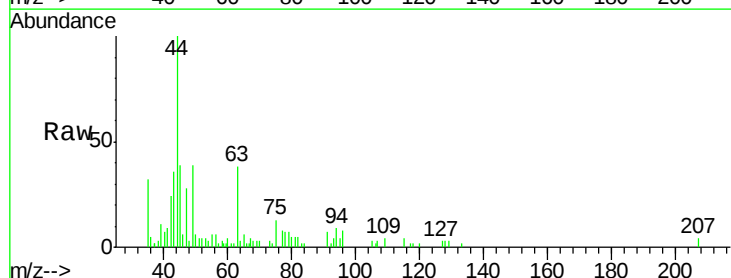
Acq: 19 Nov 2020 22:00

Tgt Ion: 94 Resp: 461

Ion Ratio Lower Upper

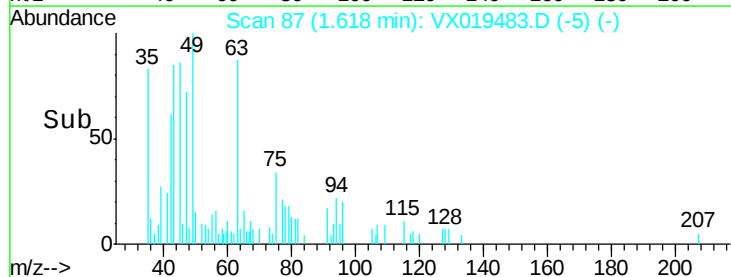
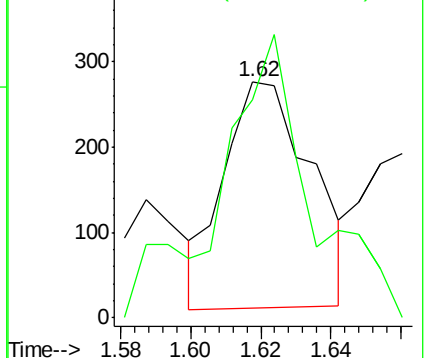
94 100

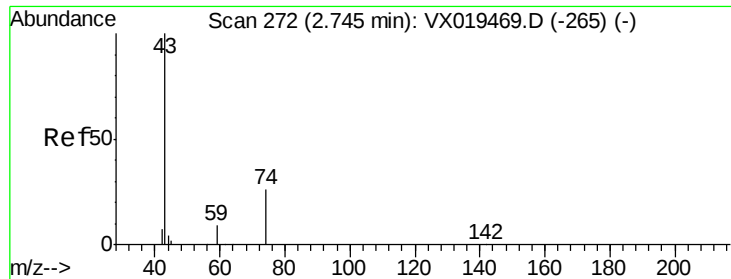
96 99.5 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0

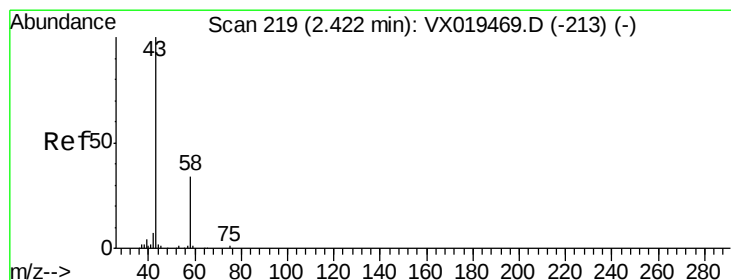
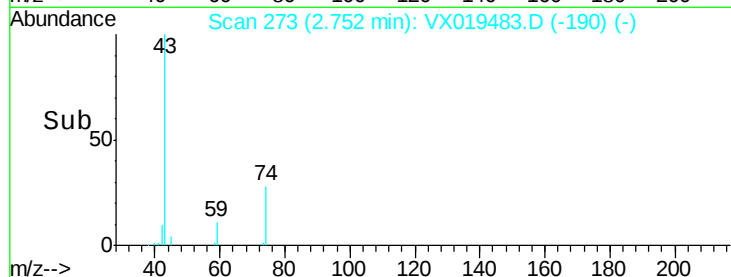
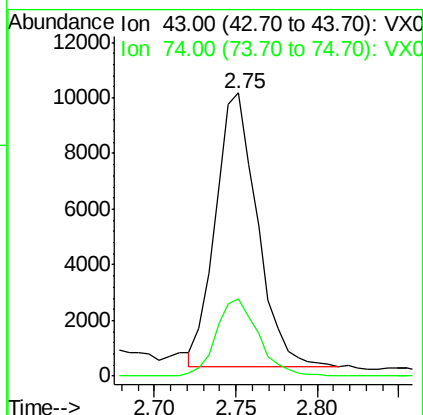
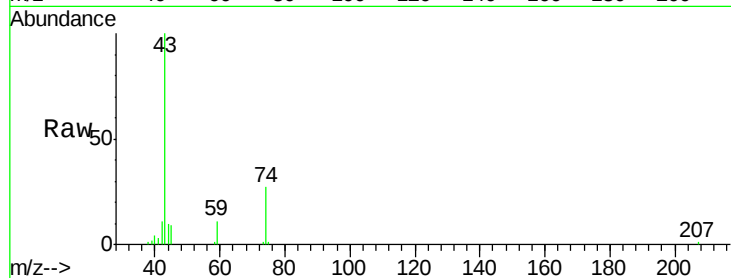




#12
Methvl Acetate
Concen: 5.943 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX019483.D
Acq: 19 Nov 2020 22:00

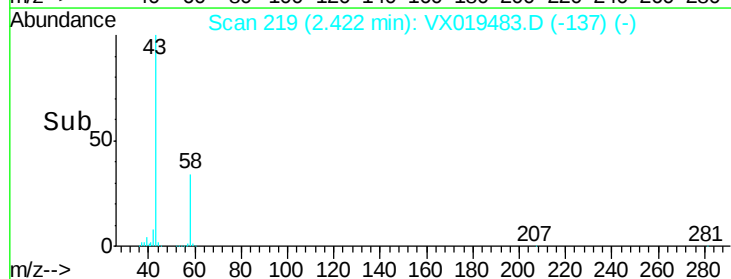
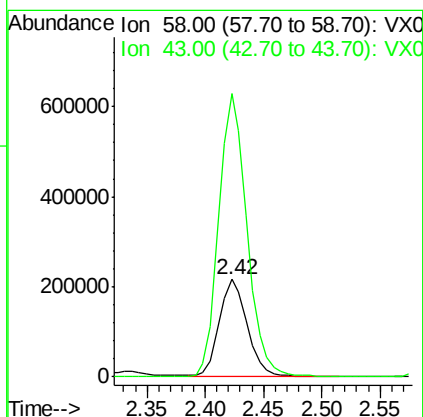
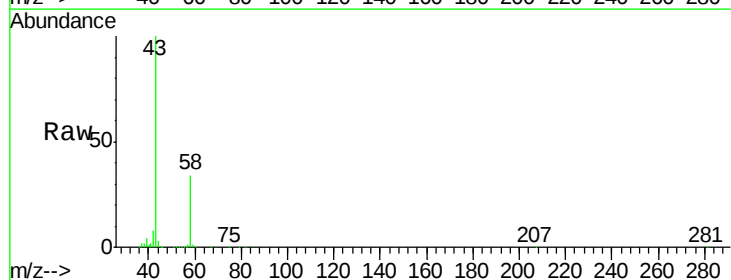
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

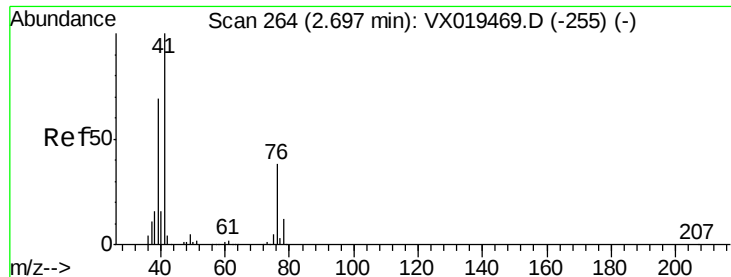
Tot Ion: 43 Resp: 17533
Ion Ratio Lower Upper
43 100
74 28.3 20.7 31.1



#15
Acetone
Concen: 860.286 ug/l
RT: 2.42 min Scan# 219
Delta R.T. 0.00 min
Lab File: VX019483.D
Acq: 19 Nov 2020 22:00

Tgt Ion: 58 Resp: 359476
Ion Ratio Lower Upper
58 100
43 290.8 236.3 354.5





#17

Allvl chloride

Concen: 0.466 ug/l

RT: 2.69 min Scan# 263

Delta R.T. -0.01 min

Lab File: VX019483.D

Acq: 19 Nov 2020 22:00

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

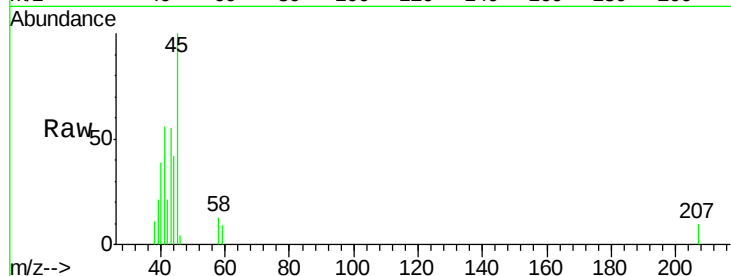
Tot Ion: 41 Resp: 1724

Ion Ratio Lower Upper

41 100

39 20.6 34.5 103.6#

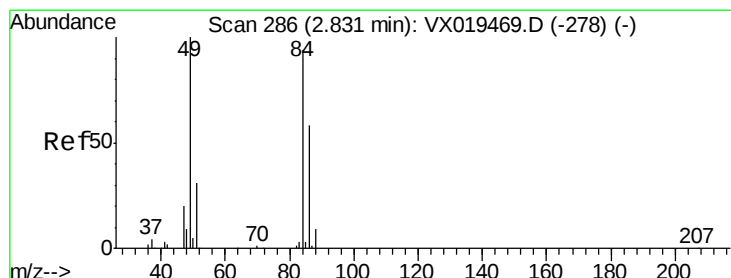
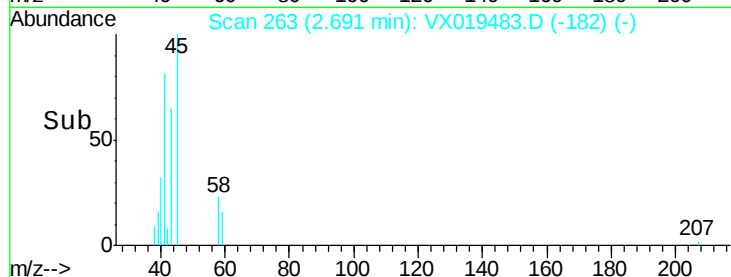
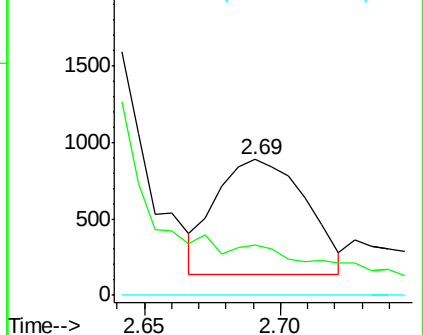
76 0.0 19.3 57.8#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 76.00 (75.70 to 76.70): VX0



#18

Methylene Chloride

Concen: 0.403 ug/l

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX019483.D

Acq: 19 Nov 2020 22:00

Tgt Ion: 84 Resp: 1200

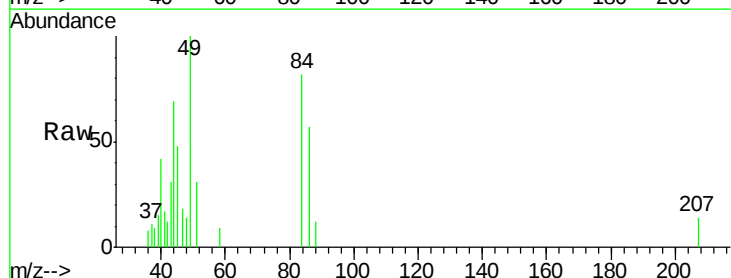
Ion Ratio Lower Upper

84 100

49 113.7 85.4 128.0

51 38.1 26.7 40.1

86 69.3 49.4 74.2

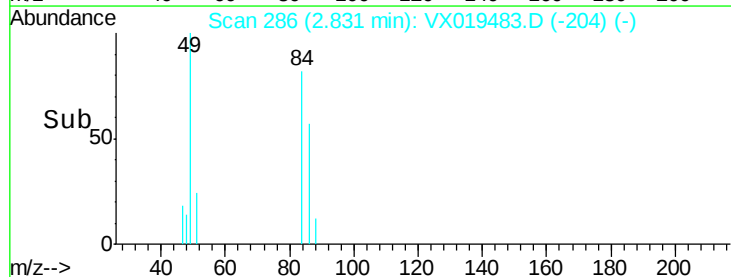
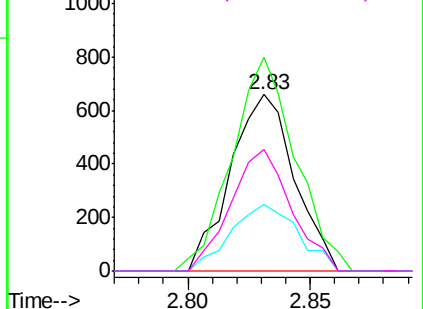


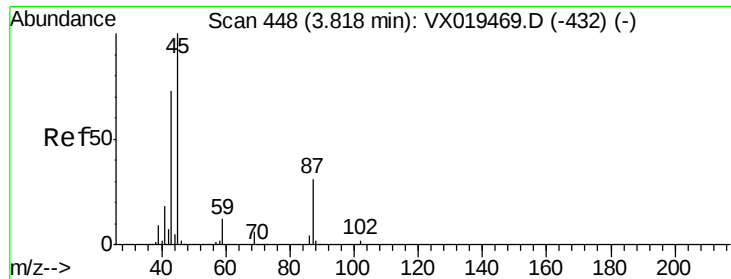
Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

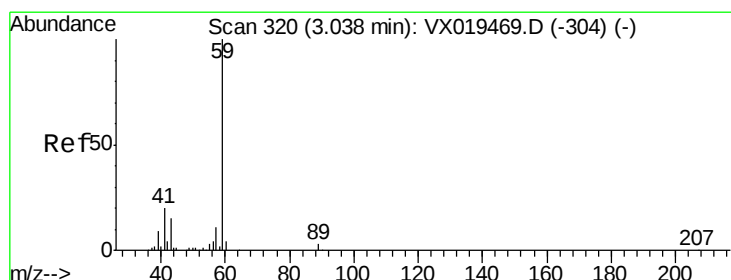
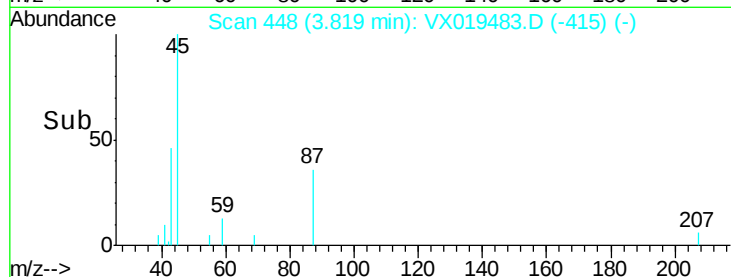
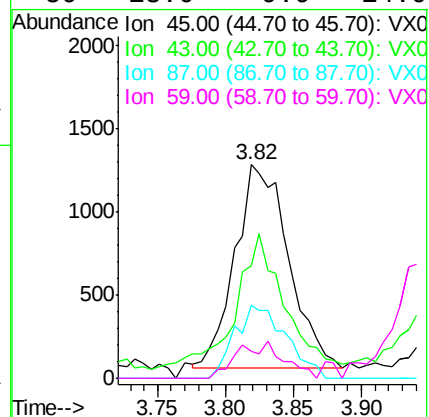
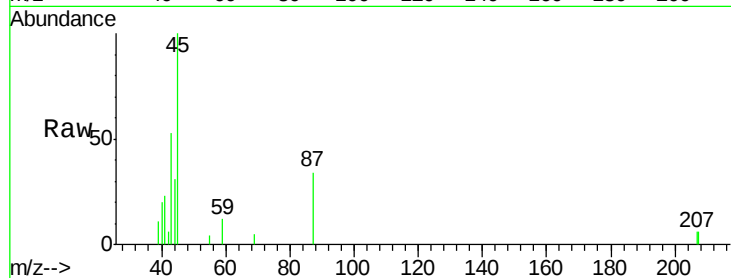




#20
Diisopropyl ether
Concen: 0.421 ug/l
RT: 3.82 min Scan# 448
Delta R.T. 0.00 min
Lab File: VX019483.D
Acq: 19 Nov 2020 22:00

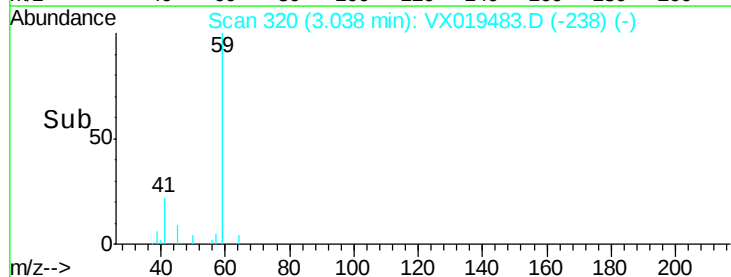
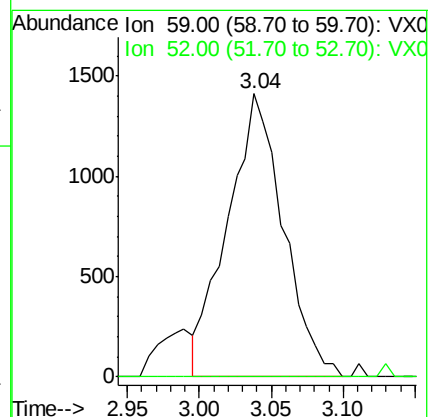
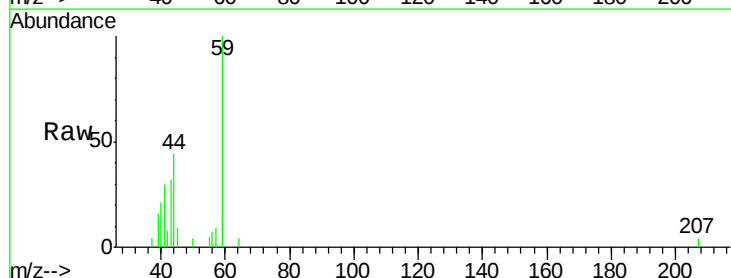
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

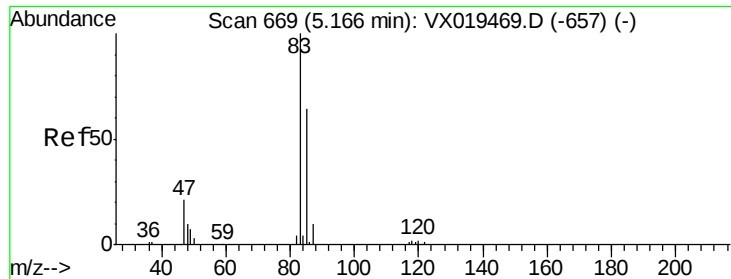
Tot Ion:	45	Resp:	3344
Ion	Ratio	Lower	Upper
45	100		
43	48.2	58.7	88.1#
87	36.0	24.5	36.7
59	13.0	9.9	14.9



#23
tert-Butyl Alcohol
Concen: 6.141 ug/l
RT: 3.04 min Scan# 320
Delta R.T. 0.00 min
Lab File: VX019483.D
Acq: 19 Nov 2020 22:00

Tgt Ion:	59	Resp:	3795
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.2	0.2#





#25

Chloroform

Concen: 1.321 ug/l

RT: 5.17 min Scan# 670

Delta R.T. 0.01 min

Lab File: VX019483.D

Acq: 19 Nov 2020 22:00

Instrument :

MSVOA_X

ClientSampled :

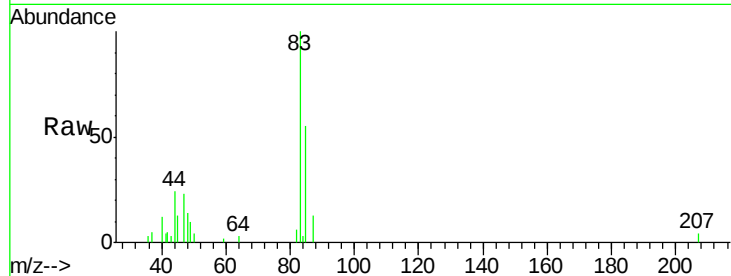
EFF-WW

Tot Ion: 83 Resp: 6706

Ion Ratio Lower Upper

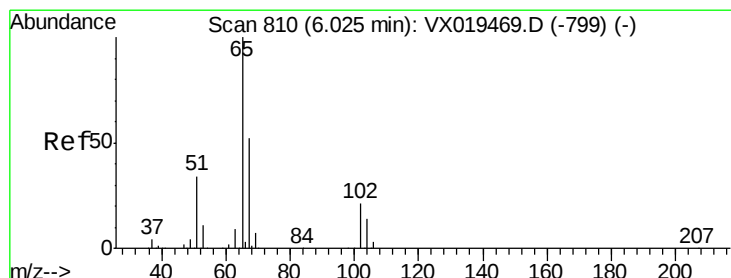
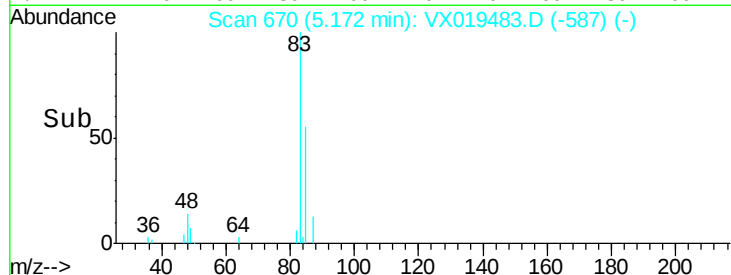
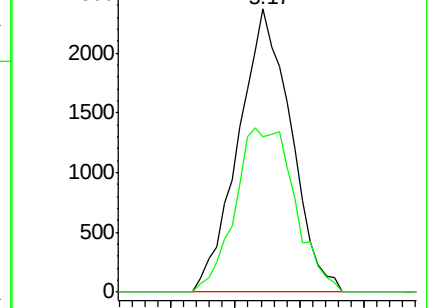
83 100

85 54.9 51.4 77.0



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0



#27

1,2-Dichloroethane-d4

Concen: 30.538 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX019483.D

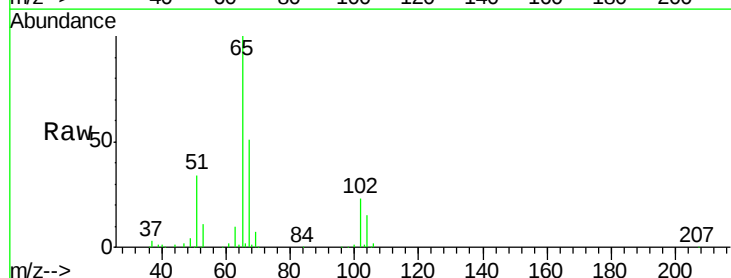
Acq: 19 Nov 2020 22:00

Tgt Ion: 65 Resp: 97545

Ion Ratio Lower Upper

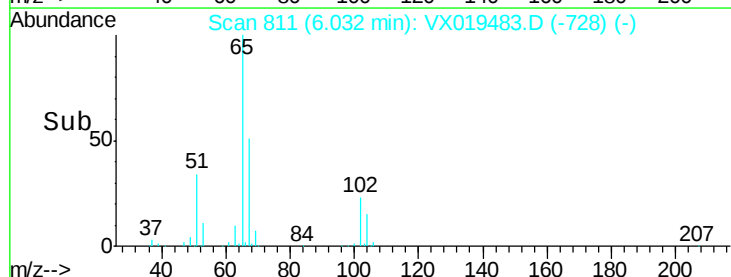
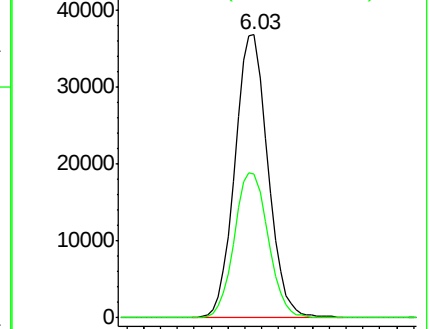
65 100

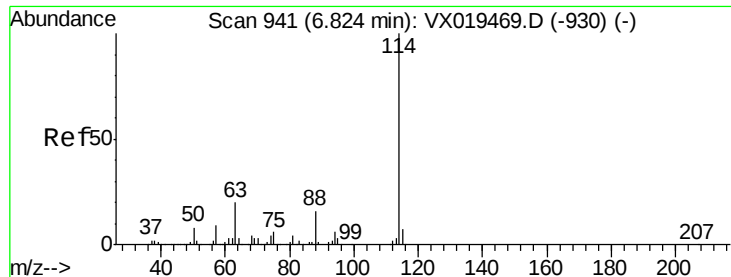
67 52.8 42.2 63.2



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.82 min Scan# 941

Delta R.T. 0.00 min

Lab File: VX019483.D

Acq: 19 Nov 2020 22:00

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

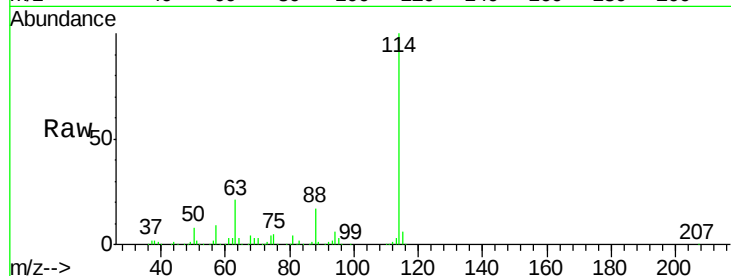
Tot Ion:114 Resp: 237552

Ion Ratio Lower Upper

114 100

63 20.8 16.2 24.2

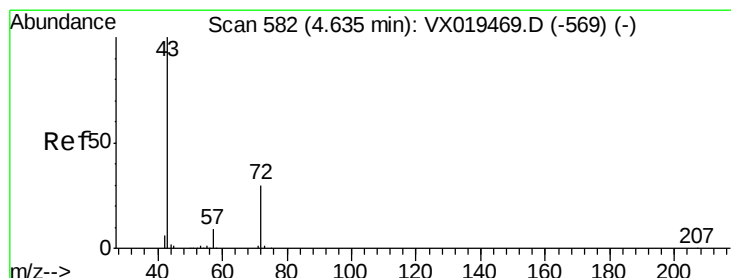
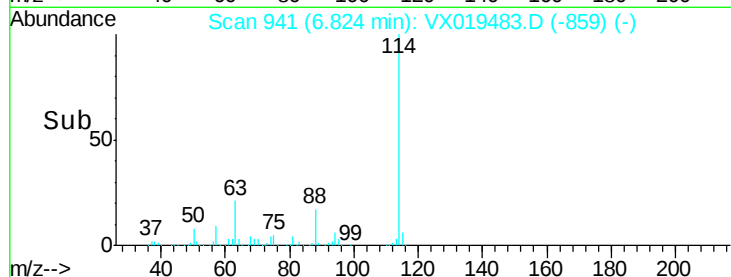
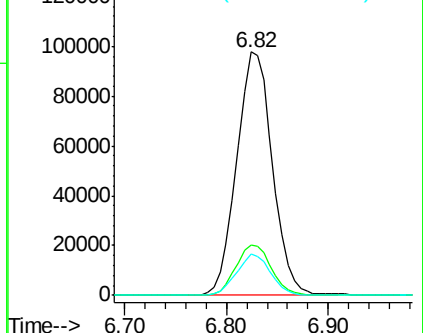
88 16.2 12.9 19.3



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0



#30

2-Butanone

Concen: 24.041 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX019483.D

Acq: 19 Nov 2020 22:00

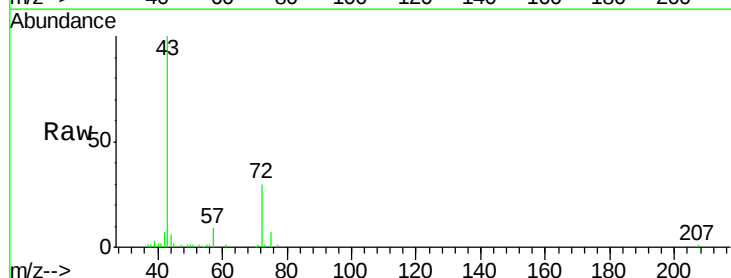
Tgt Ion: 43 Resp: 44326

Ion Ratio Lower Upper

43 100

57 9.4 7.4 11.0

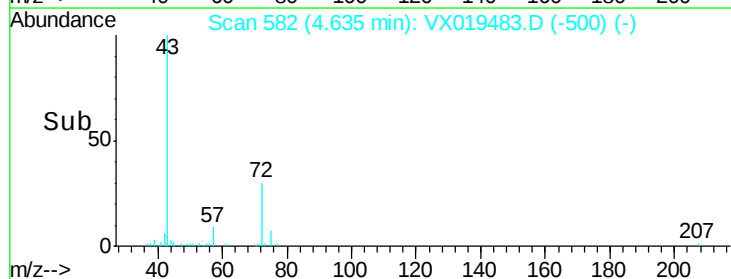
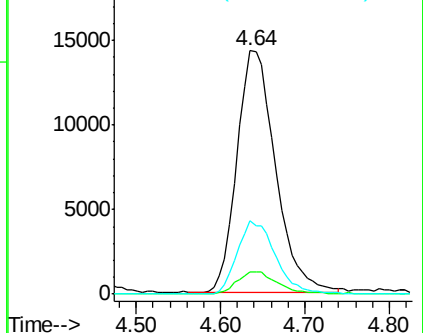
72 30.1 24.2 36.2

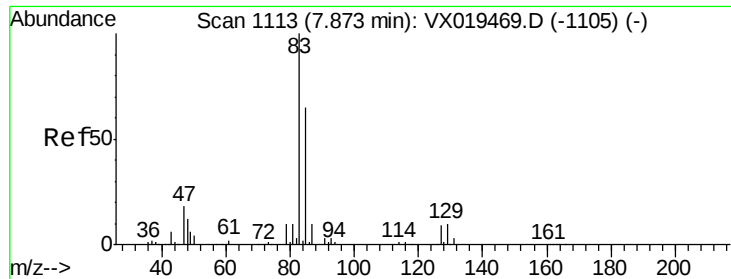


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#41

Bromodichloromethane

Concen: 0.207 ug/l

RT: 7.87 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VX019483.D

Acq: 19 Nov 2020 22:00

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

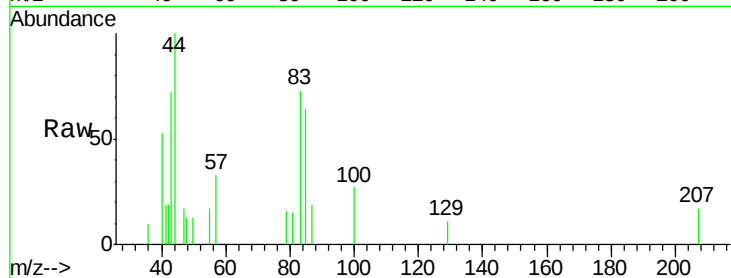
Tot Ion: 83 Resp: 793

Ion Ratio Lower Upper

83 100

85 88.5 51.7 77.5#

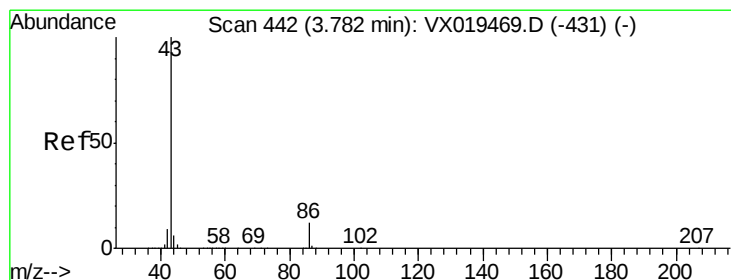
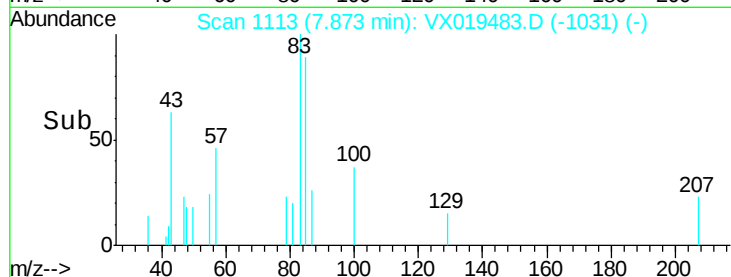
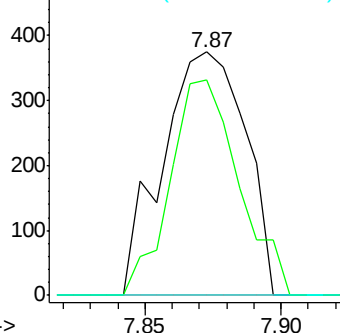
127 0.0 7.0 10.6#



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V



#42

Vinyl Acetate

Concen: 0.310 ug/l

RT: 3.82 min Scan# 449

Delta R.T. 0.04 min

Lab File: VX019483.D

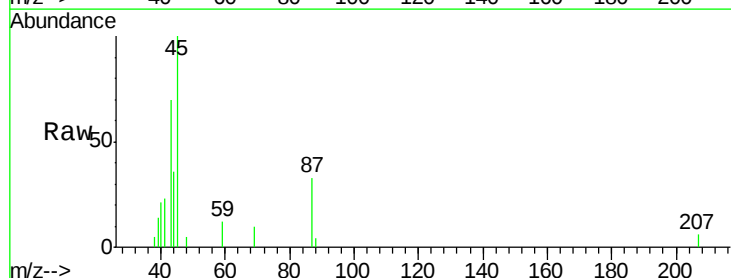
Acq: 19 Nov 2020 22:00

Tgt Ion: 43 Resp: 2057

Ion Ratio Lower Upper

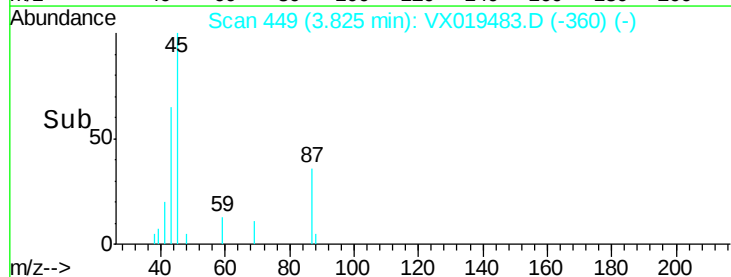
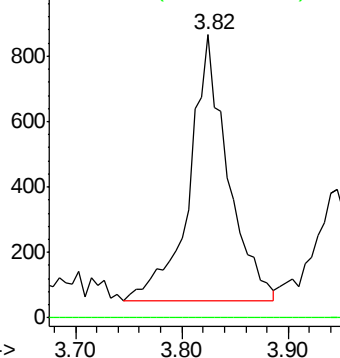
43 100

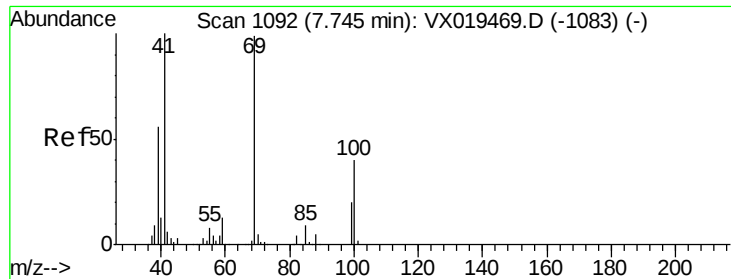
86 0.0 8.8 13.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

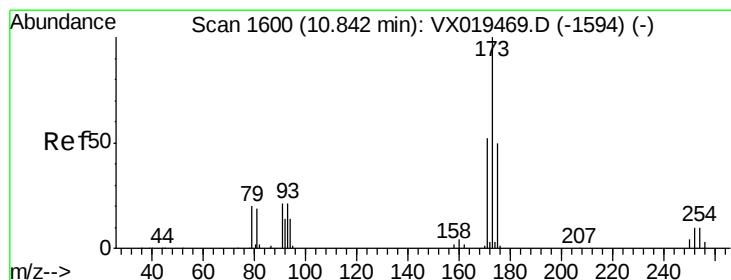
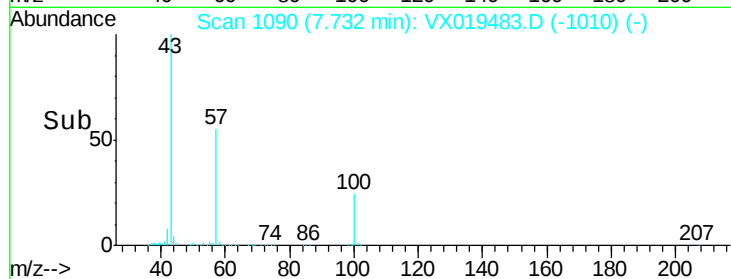
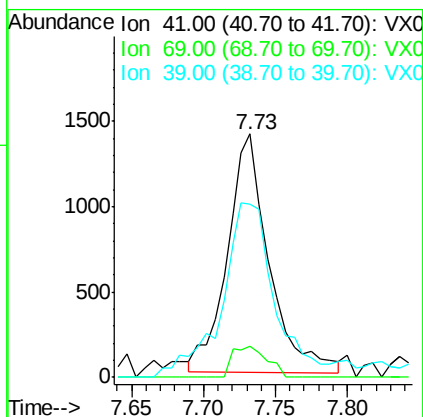
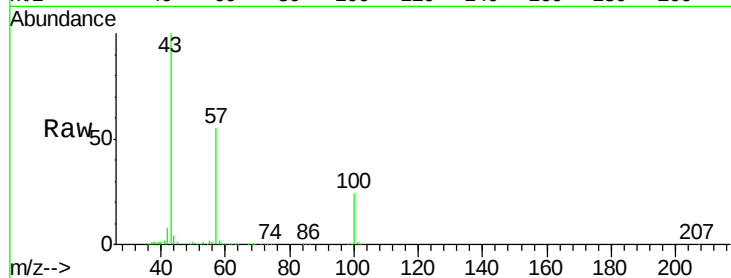




#46
Methvl methacrylate
Concen: 0.994 ug/l
RT: 7.73 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VX019483.D
Acq: 19 Nov 2020 22:00

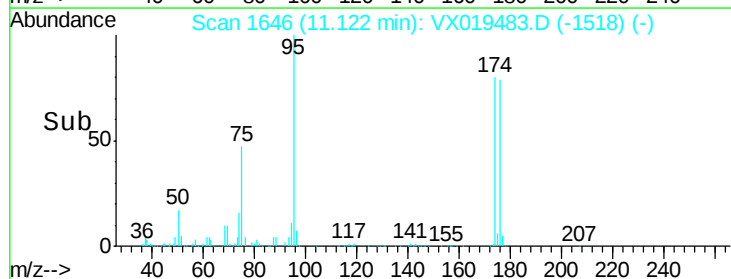
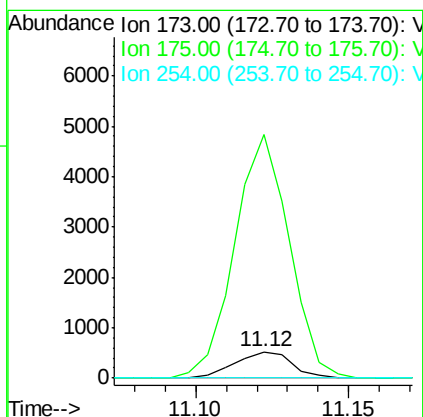
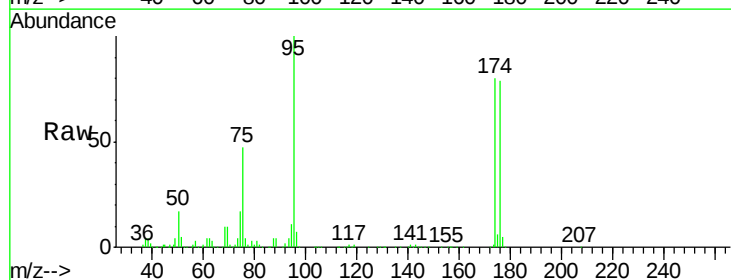
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

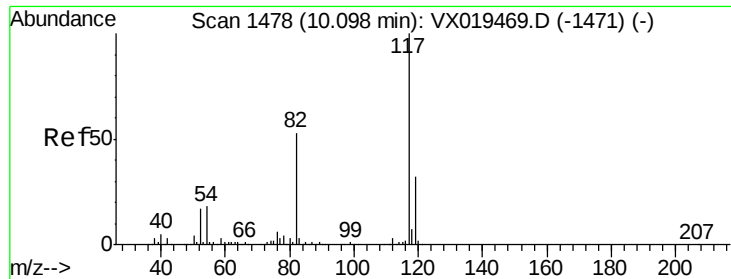
Tot Ion: 41 Resp: 2802
Ion Ratio Lower Upper
41 100
69 13.6 49.7 149.1#
39 69.1 28.1 84.4



#56
Bromoform
Concen: 0.325 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.28 min
Lab File: VX019483.D
Acq: 19 Nov 2020 22:00

Tgt Ion: 173 Resp: 669
Ion Ratio Lower Upper
173 100
175 892.2 39.7 59.5#
254 0.0 8.0 12.0#

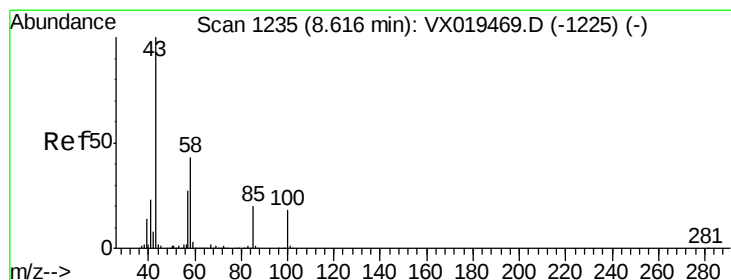
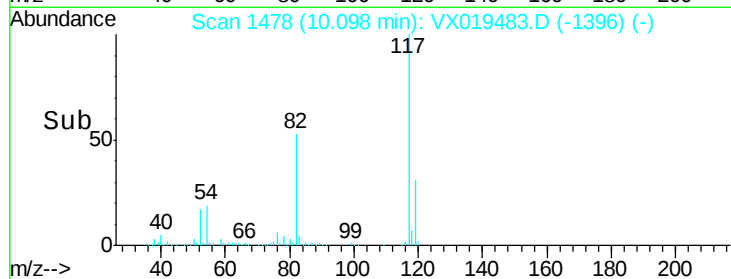
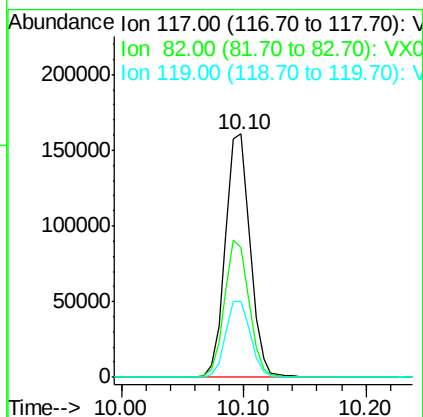
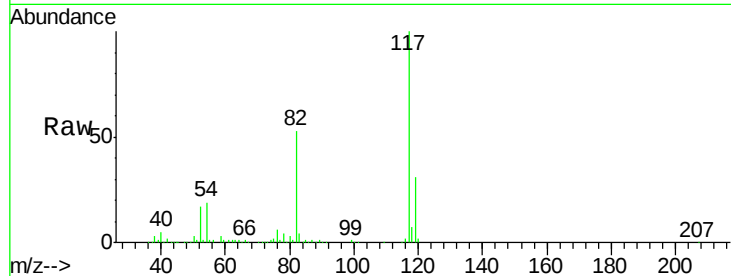




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX019483.D
Acq: 19 Nov 2020 22:00

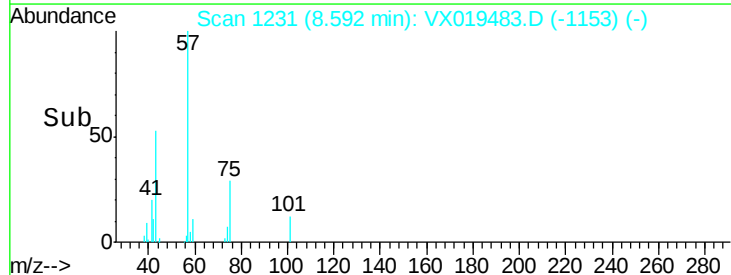
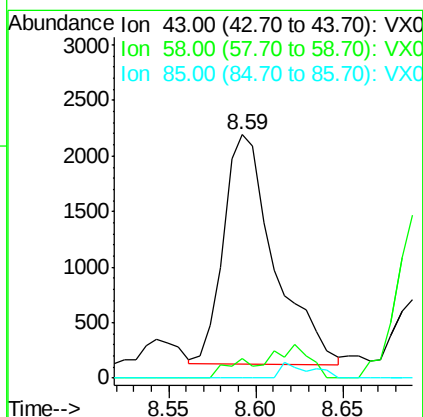
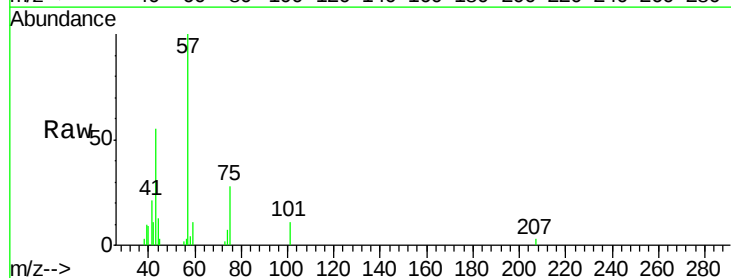
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

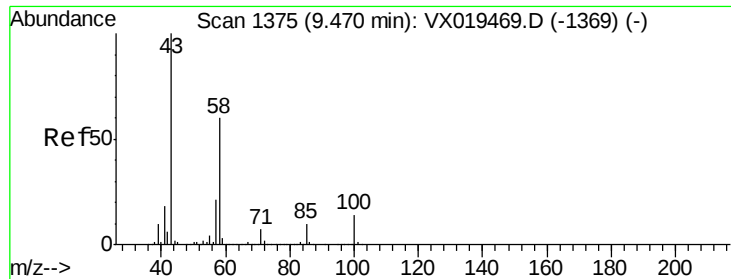
Tot Ion:117 Resp: 224430
Ion Ratio Lower Upper
117 100
82 55.8 44.5 66.7
119 31.6 25.9 38.9



#58
4-Methyl-2-Pentanone
Concen: 1.165 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.02 min
Lab File: VX019483.D
Acq: 19 Nov 2020 22:00

Tgt Ion: 43 Resp: 4177
Ion Ratio Lower Upper
43 100
58 4.4 35.1 52.7#
85 0.0 16.7 25.1#

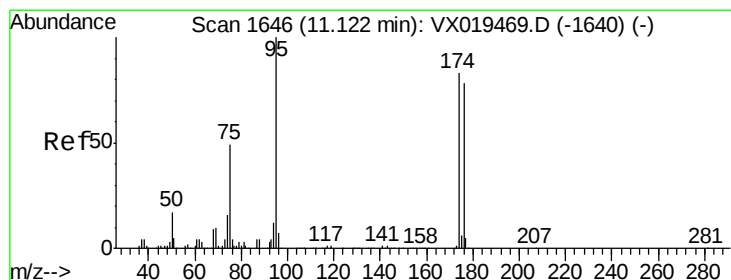
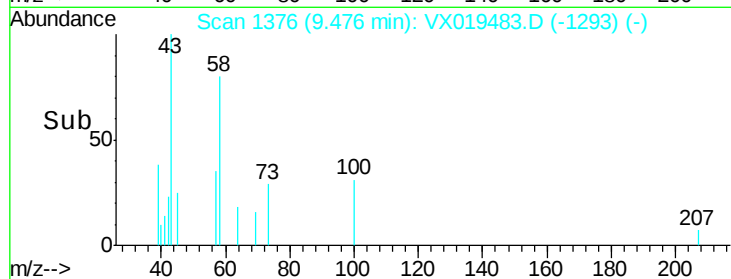
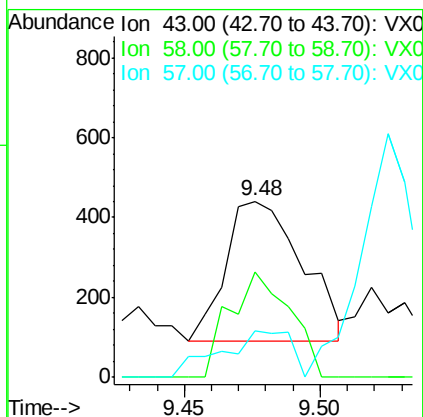
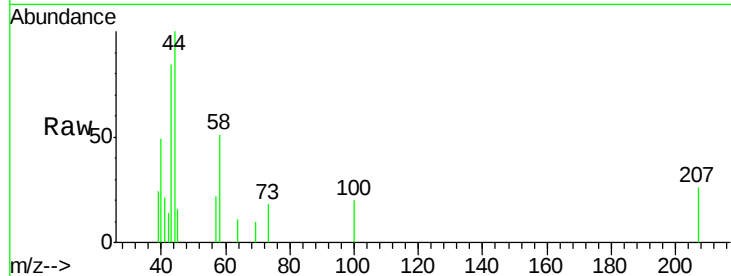




#59
2-Hexanone
Concen: 0.246 ug/l
RT: 9.48 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VX019483.D
Acq: 19 Nov 2020 22:00

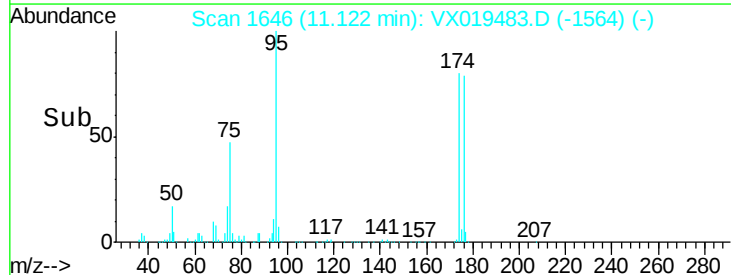
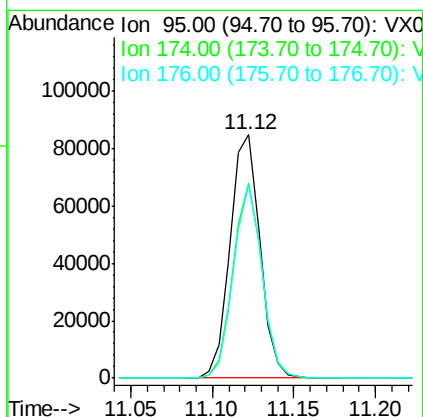
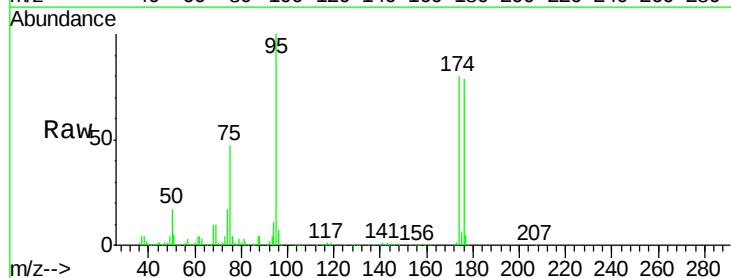
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

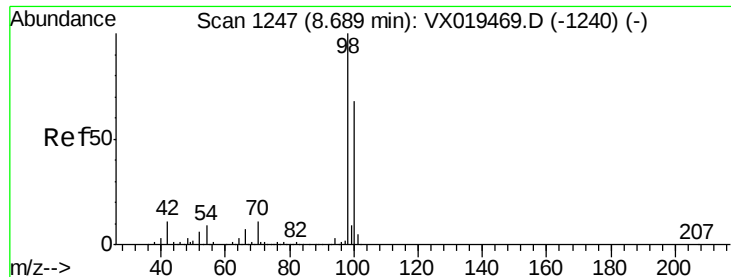
Tot Ion: 43 Resp: 680
Ion Ratio Lower Upper
43 100
58 59.6 49.0 73.6
57 18.1 17.0 25.4



#60
4-Bromofluorobenzene
Concen: 29.521 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019483.D
Acq: 19 Nov 2020 22:00

Tgt Ion: 95 Resp: 108050
Ion Ratio Lower Upper
95 100
174 77.6 63.5 95.3
176 75.9 59.8 89.6





#63

Toluene-d8

Concen: 29.081 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VX019483.D

Acq: 19 Nov 2020 22:00

Instrument :

MSVOA_X

ClientSampleId :

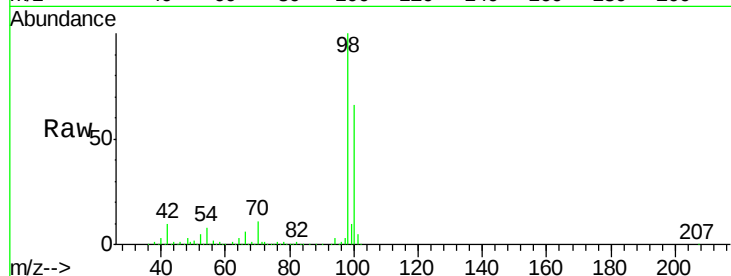
EFF-WW

Tot Ion: 98 Resp: 290917

Ion Ratio Lower Upper

98 100

100 65.5 53.6 80.4



Abundance Ion 98.00 (97.70 to 98.70): VX019469.D (-1240) (-)

Ion 100.00 (99.70 to 100.70): VX019483.D (-1165) (-)

8.70

200000

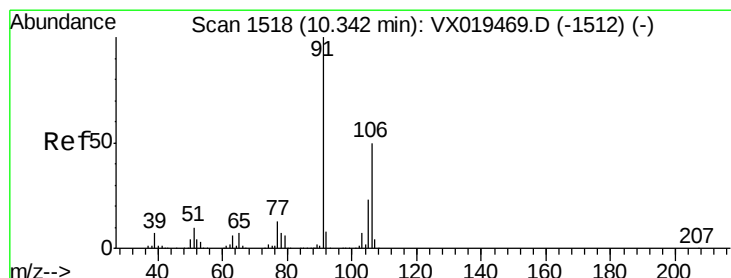
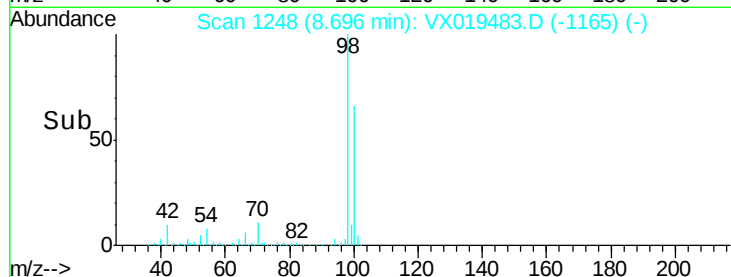
150000

100000

50000

0

Time-->



#67

m/p-Xylenes

Concen: 0.593 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX019483.D

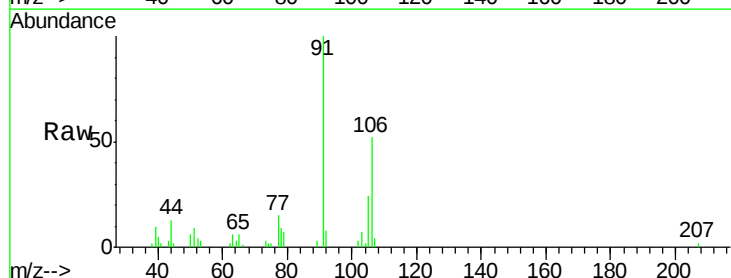
Acq: 19 Nov 2020 22:00

Tgt Ion: 106 Resp: 3056

Ion Ratio Lower Upper

106 100

91 193.3 162.7 244.1



Abundance Ion 106.00 (105.70 to 106.70): VX019469.D (-1512) (-)

Ion 91.00 (90.70 to 91.70): VX019483.D (-1436) (-)

10.34

4000

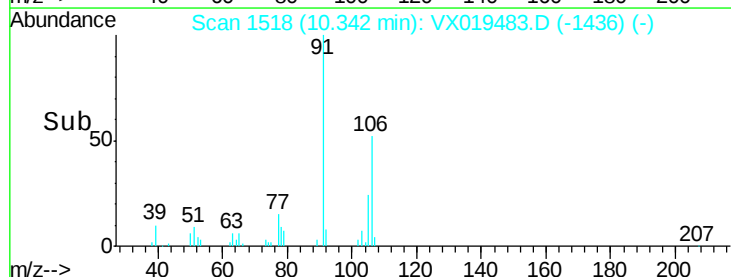
3000

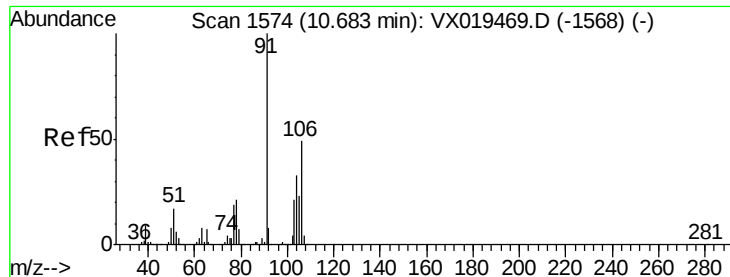
2000

1000

0

Time-->

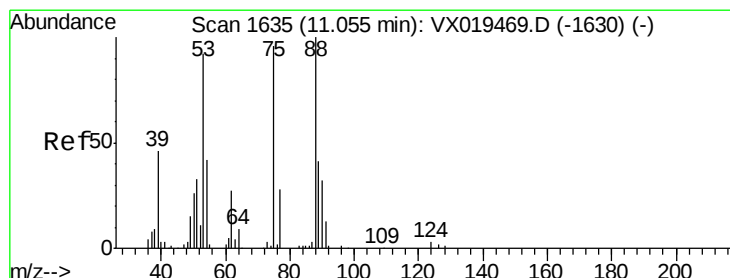
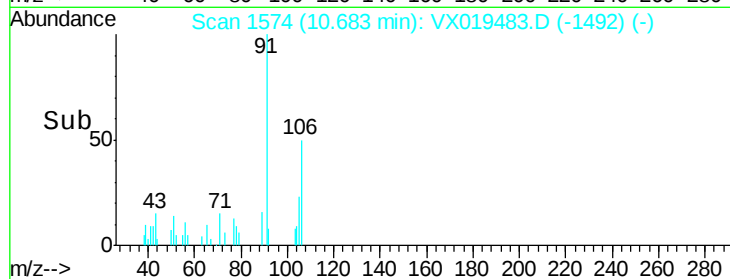
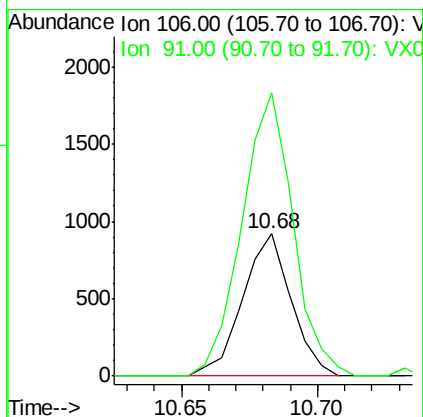
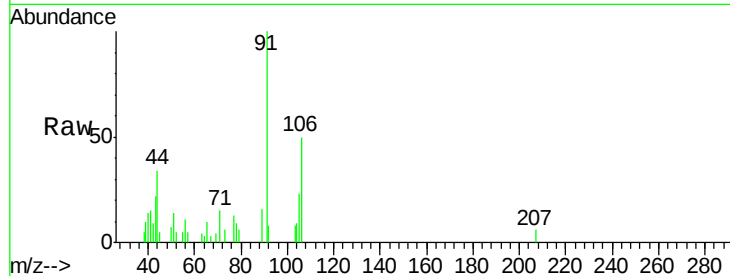




#68
o-Xylene
Concen: 0.234 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VX019483.D
Acq: 19 Nov 2020 22:00

Instrument :
MSVOA_X
ClientSampled :
EFF-WW

Tot Ion: 106 Resp: 1141
Ion Ratio Lower Upper
106 100
91 209.7 108.3 324.9



#77
t-1,4-Dichloro-2-butene
Concen: 0.310 ug/l
RT: 11.06 min Scan# 1635
Delta R.T. 0.00 min
Lab File: VX019483.D
Acq: 19 Nov 2020 22:00

Tgt Ion: 75 Resp: 431
Ion Ratio Lower Upper
75 100
53 39.7 47.9 143.6#
89 0.0 21.4 64.2#

