

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112020\
 Data File : VX019477.D
 Acq On : 19 Nov 2020 19:41
 Operator : JC/MD
 Sample : L4820-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-TB-20201118

Quant Time: Nov 20 01:37:32 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	49365	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.82	114	271837	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	243178	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	109066	30.74	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.47%
60) 4-Bromofluorobenzene	11.12	95	108274	27.30	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	91.00%
63) Toluene-d8	8.70	98	321795	29.69	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.97%

Target Compounds

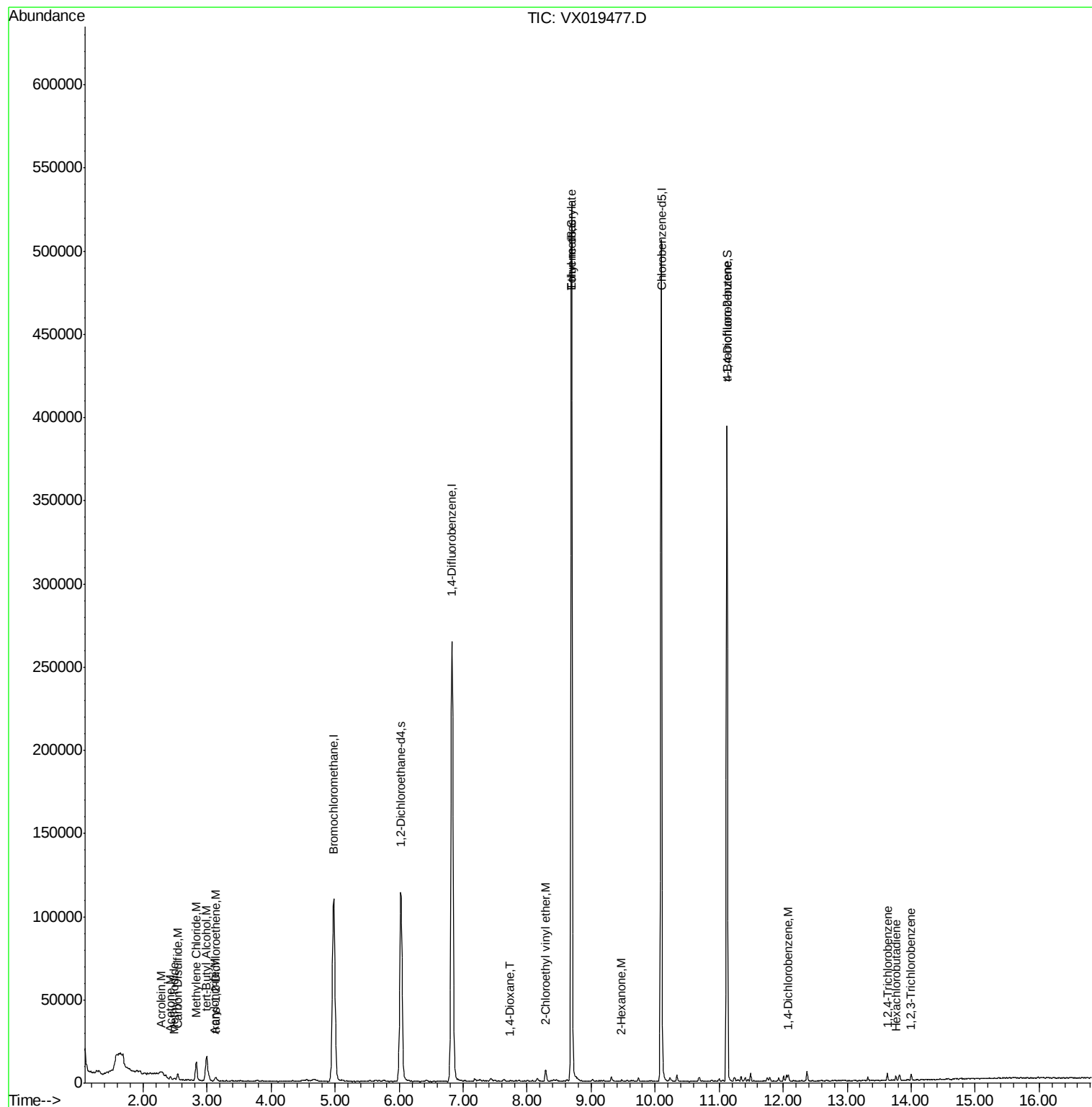
					Ovalue
11) Methyl Iodide	2.48	142	927	0.268	ug/l 90
13) Acrolein	2.28	56	428	0.873	ug/l 93
14) Acrylonitrile	3.11	53	634	0.397	ug/l # 54
15) Acetone	2.43	58	394	0.849	ug/l 79
16) Carbon Disulfide	2.54	76	4316	0.597	ug/l 97
18) Methylene Chloride	2.82	84	5361	1.622	ug/l 98
19) trans-1,2-Dichloroethene	3.14	96	617	0.202	ug/l # 84
23) tert-Butyl Alcohol	2.99	59	9843	14.339	ug/l # 98
45) 1,4-Dioxane	7.73	88	50	0.677	ug/l # 1
51) Ethyl methacrylate	8.70	69	1276	0.267	ug/l 88
55) 2-Chloroethyl vinyl ether	8.29	63	2899	1.103	ug/l 95
59) 2-Hexanone	9.48	43	770	0.257	ug/l # 65
77) t-1,4-Dichloro-2-butene	11.12	75	53305	35.332	ug/l # 11
84) 1,4-Dichlorobenzene	12.08	146	1373	0.206	ug/l 94
89) 1,2,4-Trichlorobenzene	13.63	180	1213	0.279	ug/l 94
90) Hexachlorobutadiene	13.76	225	492	0.251	ug/l 96
92) 1,2,3-Trichlorobenzene	14.00	180	1077	0.247	ug/l 97

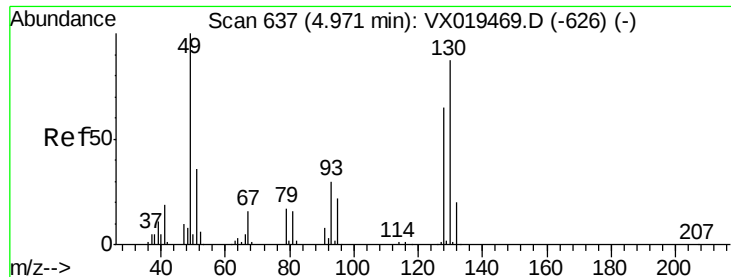
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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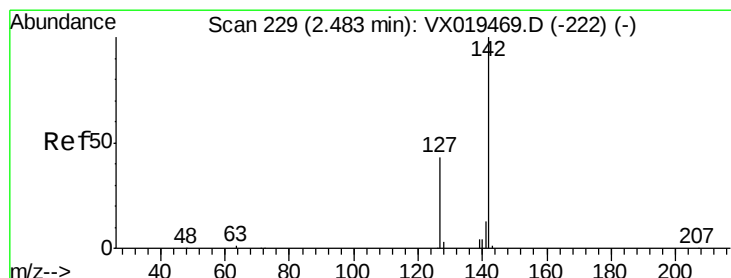
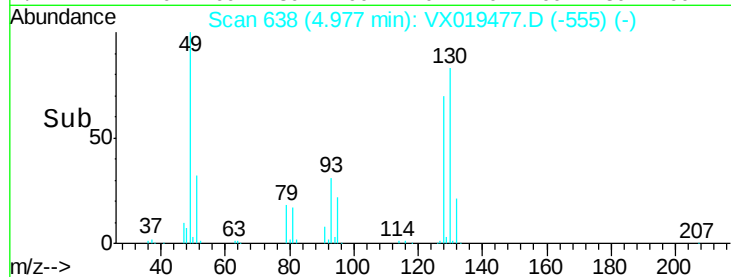
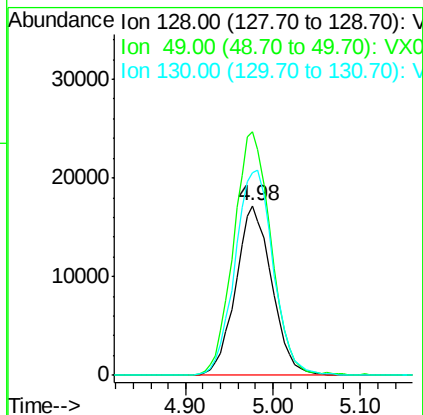
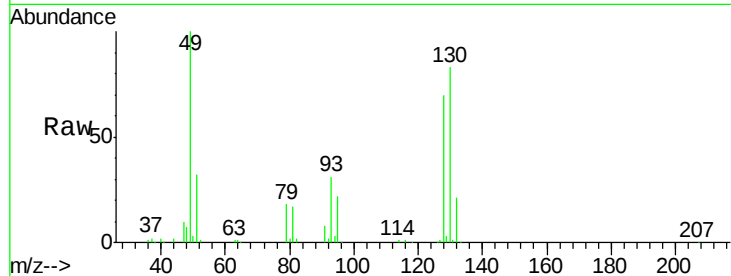


#1

Bromochloromethane
 Concen: 30.000 ug/l
 RT: 4.98 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: VX019477.D
 Acq: 19 Nov 2020 19:41

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-TB-20201118

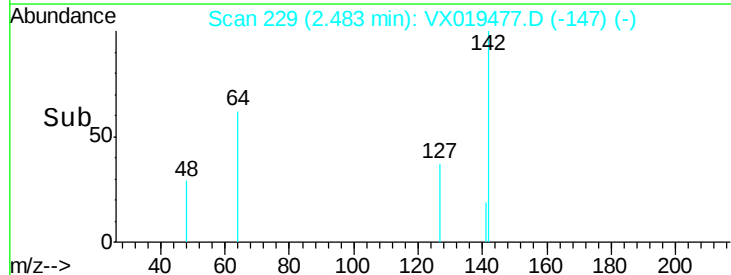
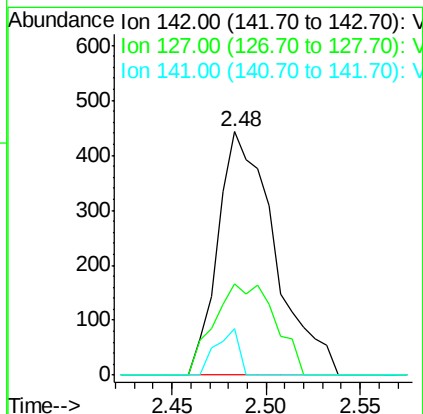
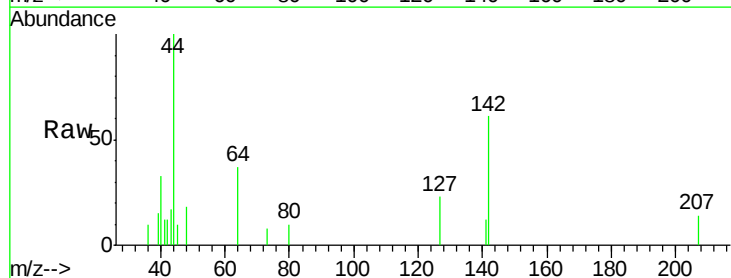
Tot Ion	Ratio	Lower	Upper
128	100		
49	148.1	0.0	377.8
130	128.3	0.0	324.0

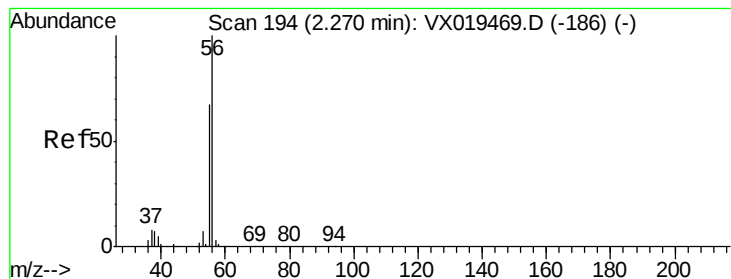


#11

Methyl Iodide
 Concen: 0.268 ug/l
 RT: 2.48 min Scan# 229
 Delta R.T. 0.00 min
 Lab File: VX019477.D
 Acq: 19 Nov 2020 19:41

Tgt Ion	Ratio	Lower	Upper
142	100		
127	37.5	21.3	64.0
141	19.2	6.7	20.0





#13

Acrolein

Concen: 0.873 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019477.D

Acq: 19 Nov 2020 19:41

Instrument :

MSVOA_X

ClientSampleId :

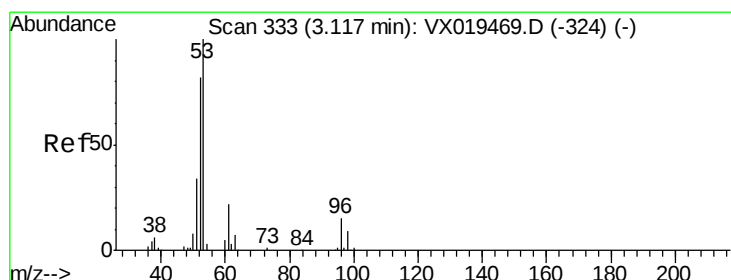
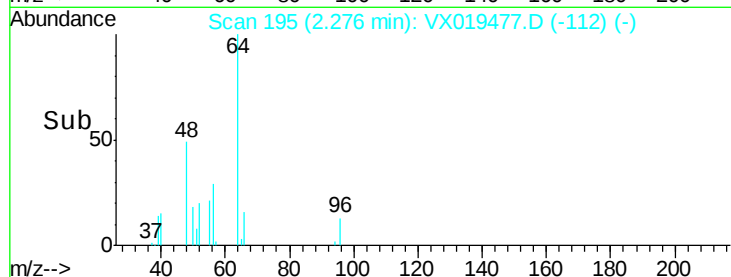
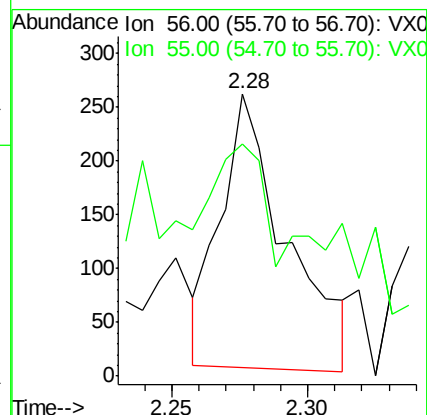
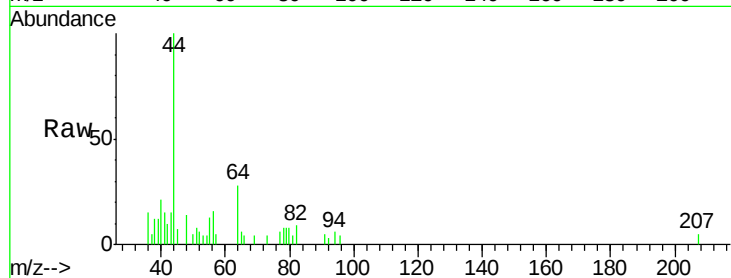
TT-TB-20201118

Tot Ion: 56 Resp: 428

Ion Ratio Lower Upper

56 100

55 65.0 56.5 84.7



#14

Acrylonitrile

Concen: 0.397 ug/l

RT: 3.11 min Scan# 332

Delta R.T. -0.01 min

Lab File: VX019477.D

Acq: 19 Nov 2020 19:41

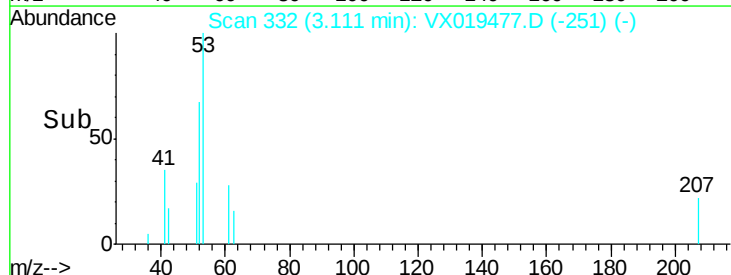
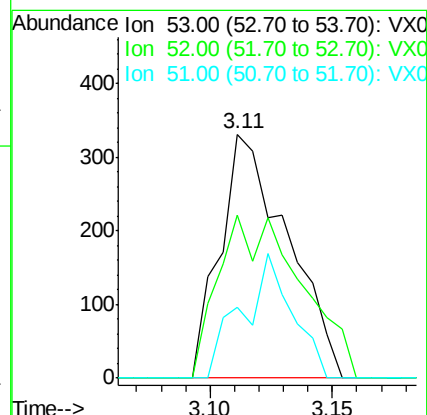
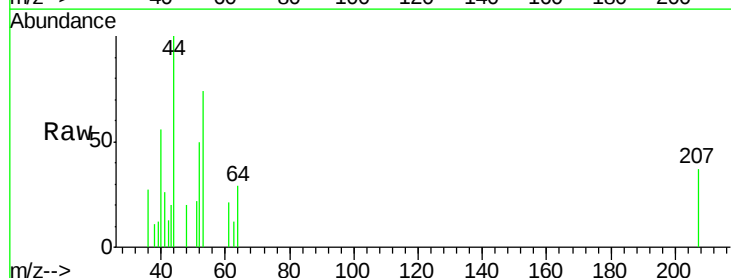
Tgt Ion: 53 Resp: 634

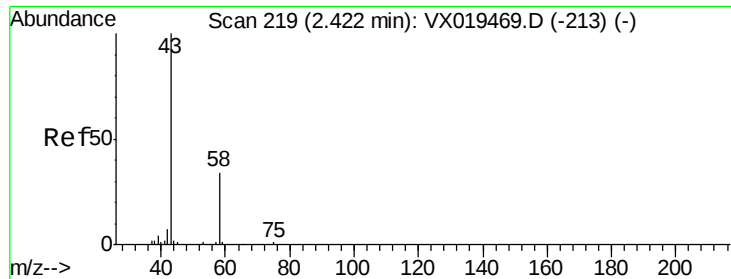
Ion Ratio Lower Upper

53 100

52 36.9 41.3 123.7#

51 14.5 17.8 53.3#

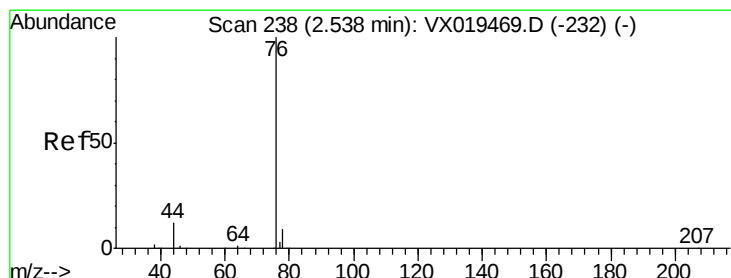
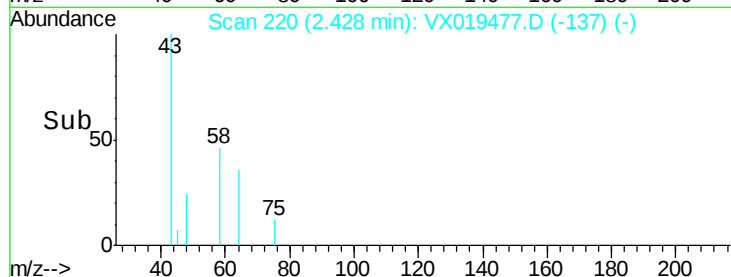
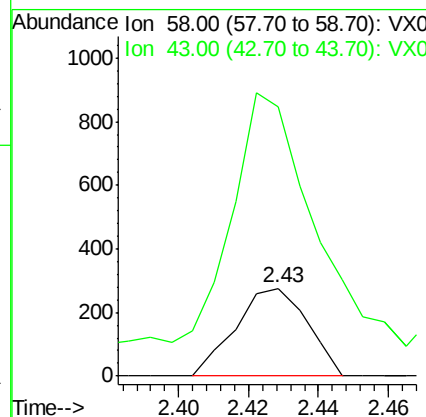
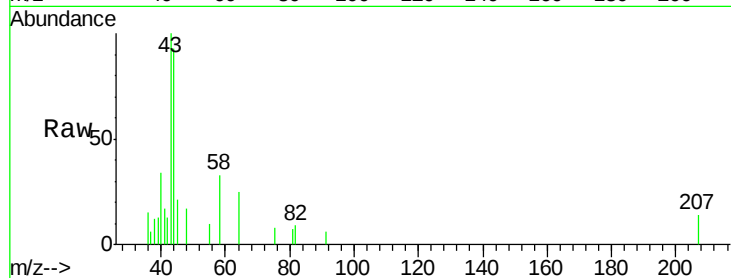




#15
Acetone
Concen: 0.849 ug/l
RT: 2.43 min Scan# 220
Delta R.T. 0.01 min
Lab File: VX019477.D
Acq: 19 Nov 2020 19:41

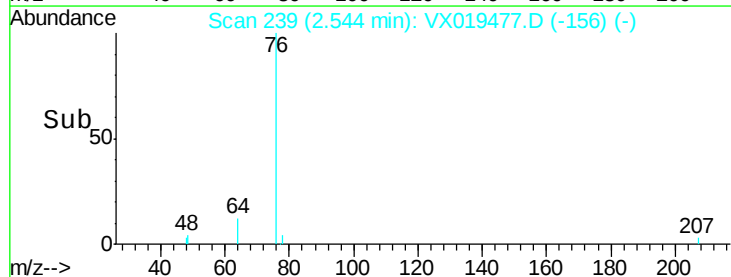
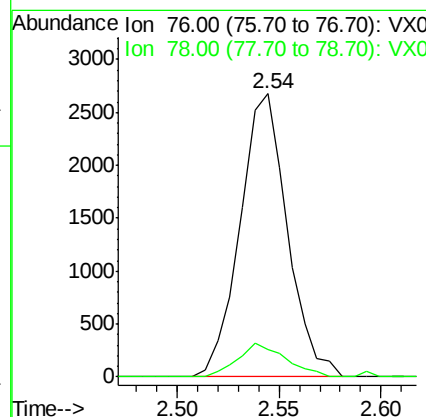
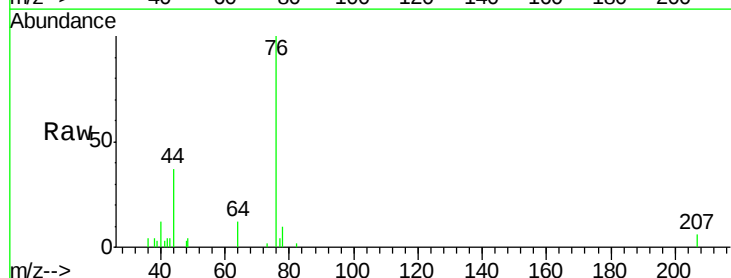
Instrument :
MSVOA_X
ClientSampleId :
TT-TB-20201118

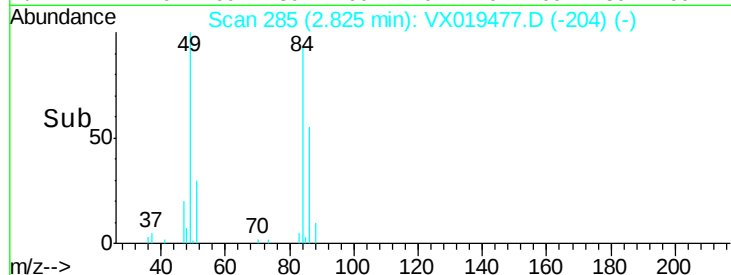
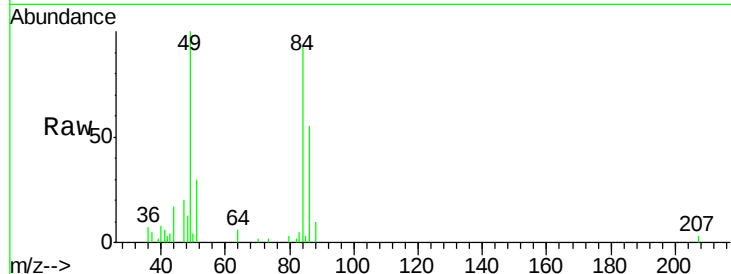
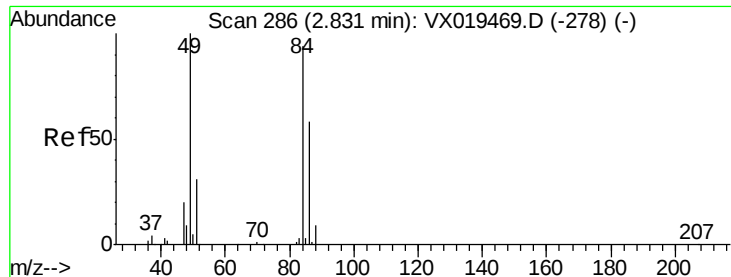
Tot Ion: 58 Resp: 394
Ion Ratio Lower Upper
58 100
43 254.5 236.3 354.5



#16
Carbon Disulfide
Concen: 0.597 ug/l
RT: 2.54 min Scan# 239
Delta R.T. 0.01 min
Lab File: VX019477.D
Acq: 19 Nov 2020 19:41

Tgt Ion: 76 Resp: 4316
Ion Ratio Lower Upper
76 100
78 9.8 7.0 10.6

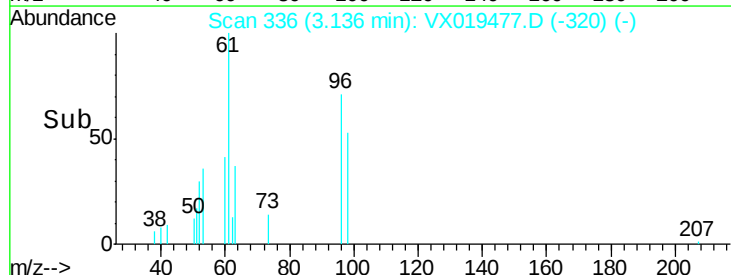
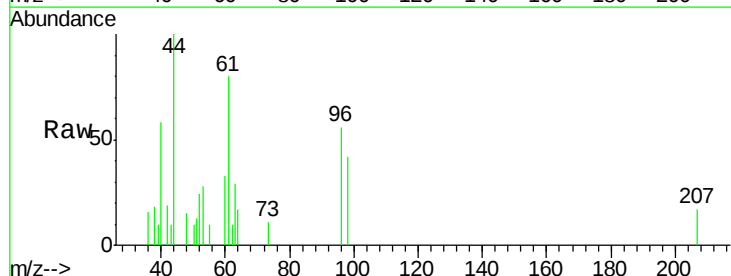
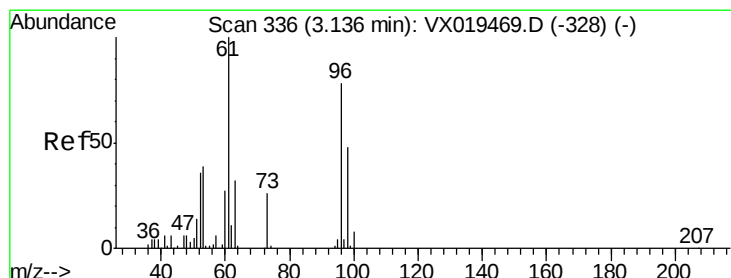
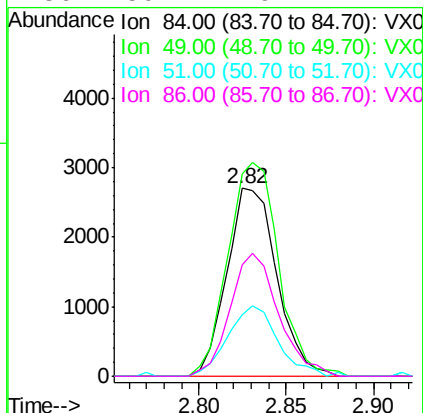




#18
Methvlene Chloride
Concen: 1.622 ug/l
RT: 2.82 min Scan# 285
Delta R.T. -0.01 min
Lab File: VX019477.D
Acq: 19 Nov 2020 19:41

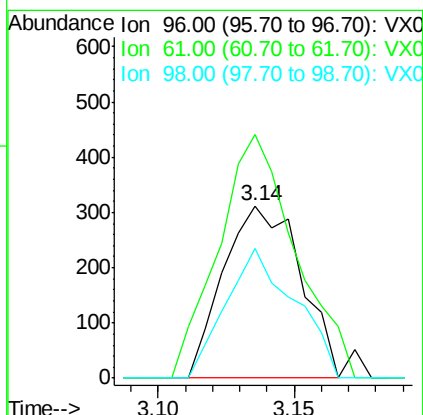
Instrument :
MSVOA_X
ClientSampleId :
TT-TB-20201118

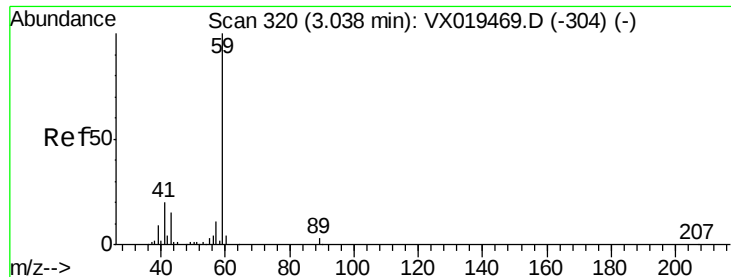
Tot Ion:	84	Resp:	5361
Ion	Ratio	Lower	Upper
84	100		
49	107.5	85.4	128.0
51	32.6	26.7	40.1
86	59.2	49.4	74.2



#19
trans-1,2-Dichloroethene
Concen: 0.202 ug/l
RT: 3.14 min Scan# 336
Delta R.T. 0.00 min
Lab File: VX019477.D
Acq: 19 Nov 2020 19:41

Tgt Ion:	96	Resp:	617
Ion	Ratio	Lower	Upper
96	100		
61	111.5	103.2	154.8
98	75.3	49.2	73.8#





#23

tert-Butyl Alcohol

Concen: 14.339 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.05 min

Lab File: VX019477.D

Acq: 19 Nov 2020 19:41

Instrument :

MSVOA_X

ClientSampleId :

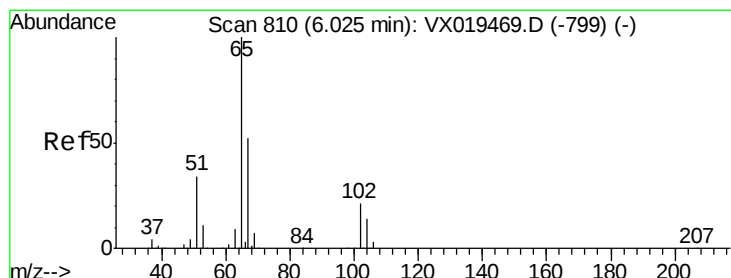
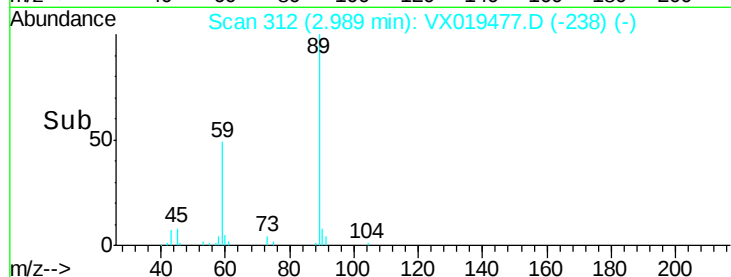
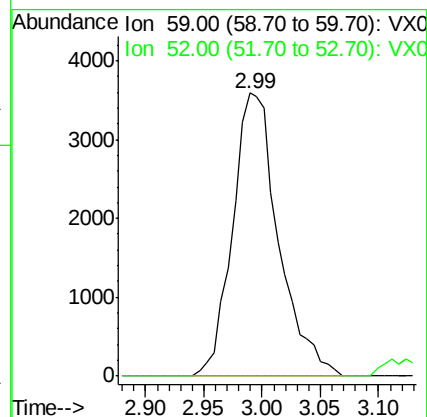
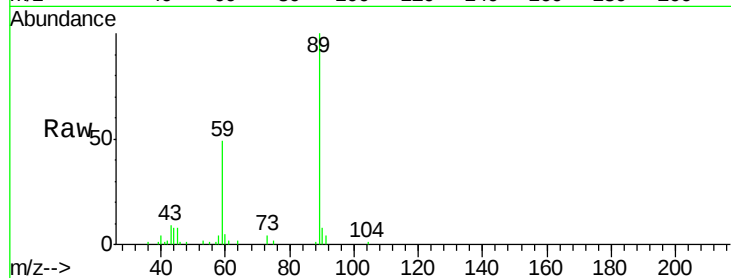
TT-TB-20201118

Tot Ion: 59 Resp: 9843

Ion Ratio Lower Upper

59 100

52 2.4 0.2 0.2#



#27

1,2-Dichloroethane-d4

Concen: 30.741 ug/l

RT: 6.03 min Scan# 810

Delta R.T. 0.00 min

Lab File: VX019477.D

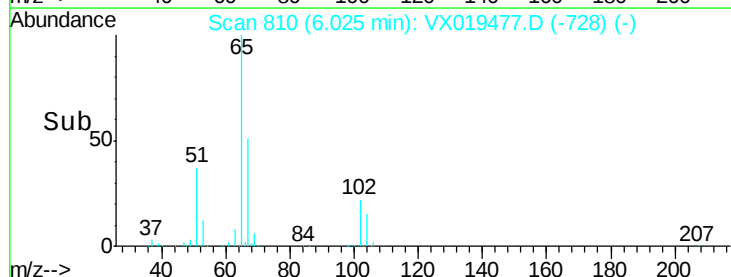
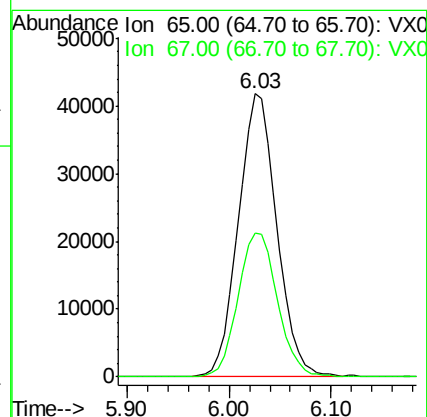
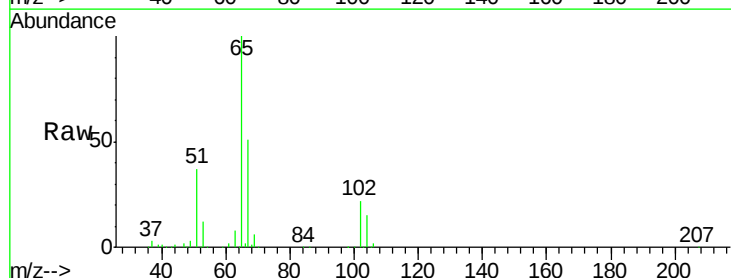
Acq: 19 Nov 2020 19:41

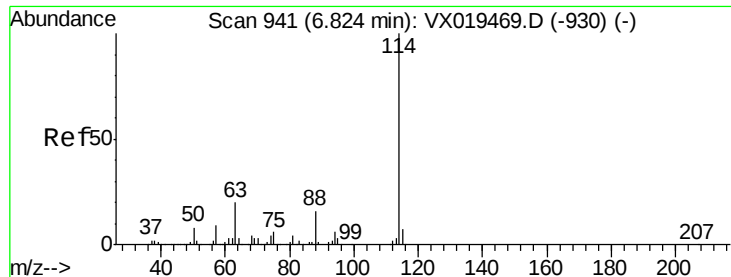
Tgt Ion: 65 Resp: 109066

Ion Ratio Lower Upper

65 100

67 52.2 42.2 63.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.82 min Scan# 941

Delta R.T. 0.00 min

Lab File: VX019477.D

Acq: 19 Nov 2020 19:41

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20201118

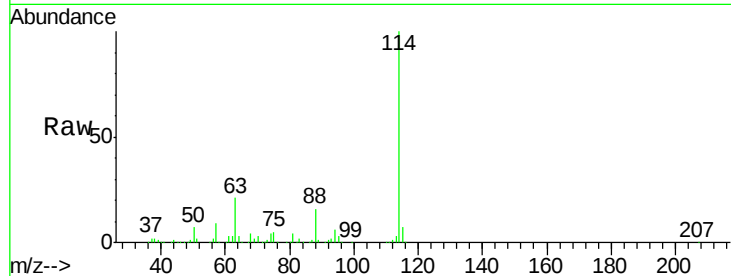
Tot Ion:114 Resp: 271837

Ion Ratio Lower Upper

114 100

63 20.4 16.2 24.2

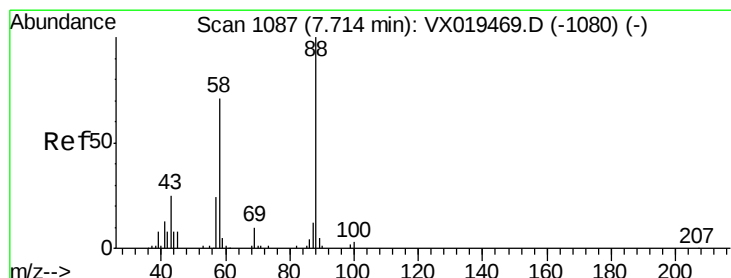
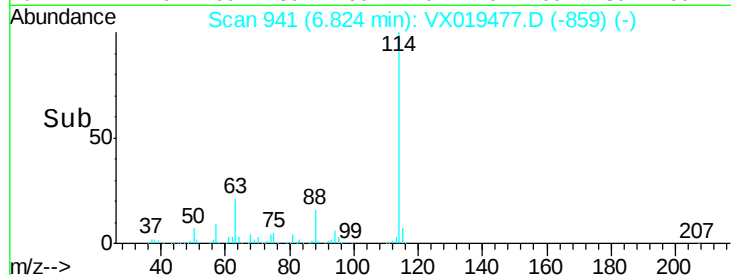
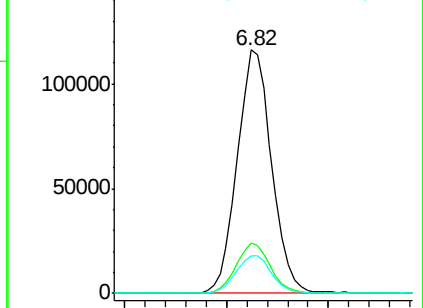
88 15.9 12.9 19.3



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



#45

1,4-Dioxane

Concen: 0.677 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX019477.D

Acq: 19 Nov 2020 19:41

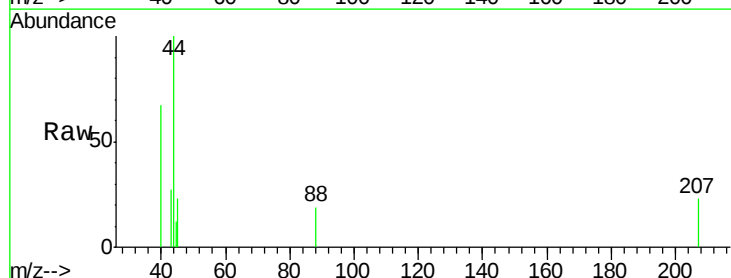
Tgt Ion: 88 Resp: 50

Ion Ratio Lower Upper

88 100

43 166.0 24.2 36.4#

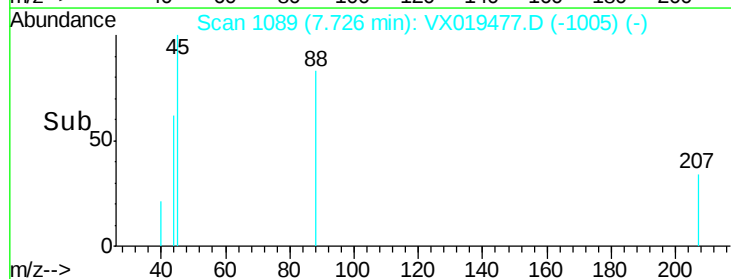
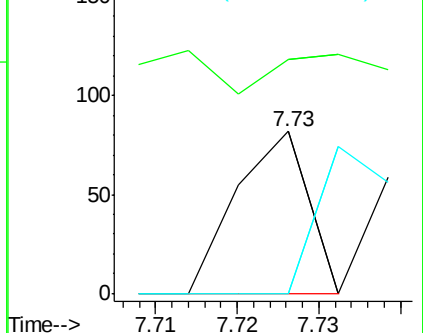
58 0.0 56.6 84.8#

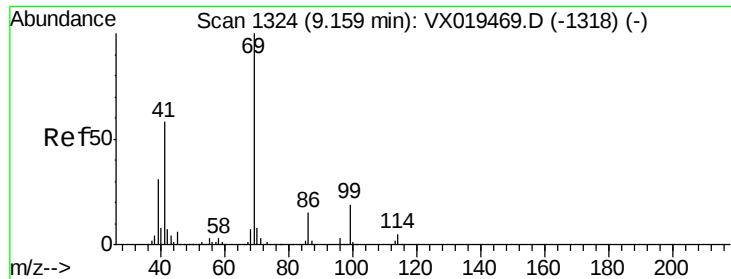


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#51

Ethyl methacrylate

Concen: 0.267 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.46 min

Lab File: VX019477.D

Acq: 19 Nov 2020 19:41

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20201118

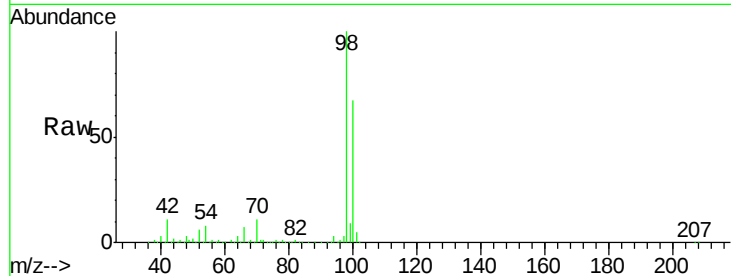
Tot Ion: 69 Resp: 1276

Ion Ratio Lower Upper

69 100

41 67.1 29.0 87.1

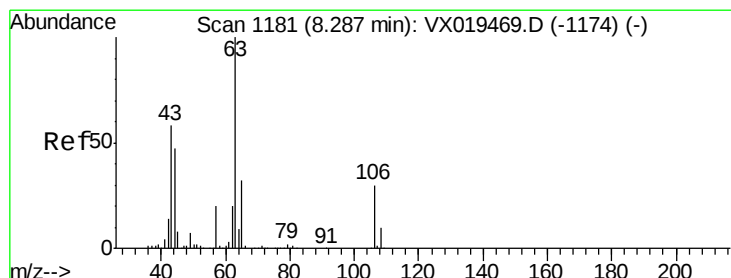
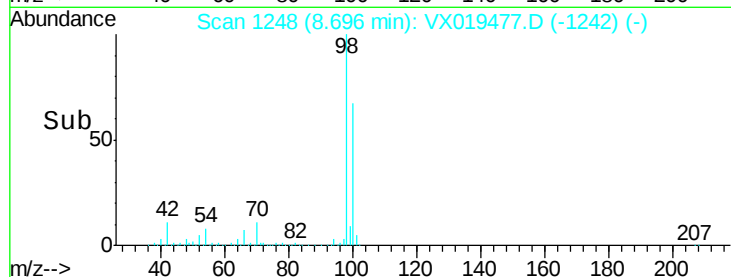
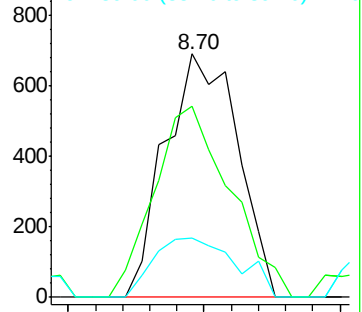
39 24.3 15.4 46.4



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#55

2-Chloroethyl vinyl ether

Concen: 1.103 ug/l

RT: 8.29 min Scan# 1182

Delta R.T. 0.01 min

Lab File: VX019477.D

Acq: 19 Nov 2020 19:41

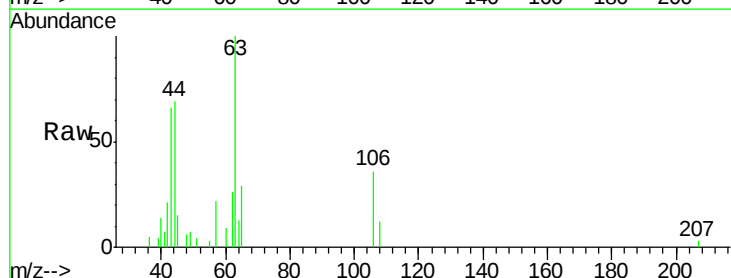
Tgt Ion: 63 Resp: 2899

Ion Ratio Lower Upper

63 100

65 32.0 25.7 38.5

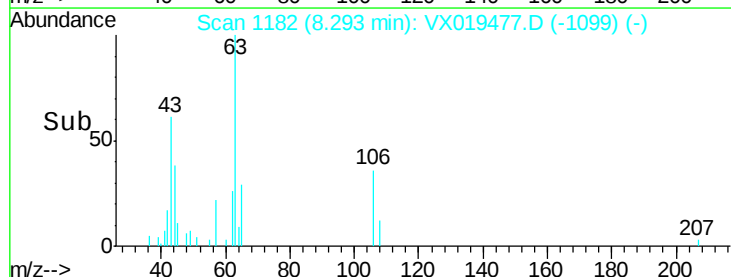
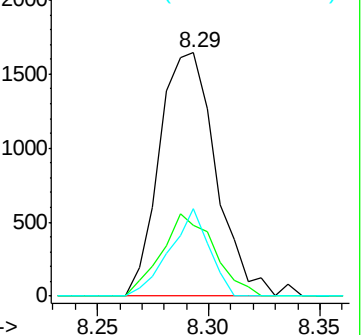
106 25.0 24.2 36.4

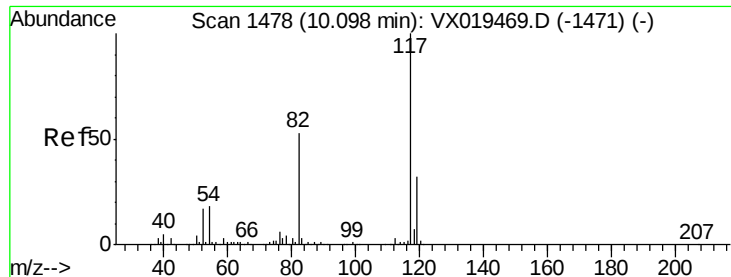


Abundance Ion 63.00 (62.70 to 63.70): VX0

Ion 65.00 (64.70 to 65.70): VX0

Ion 106.00 (105.70 to 106.70): V

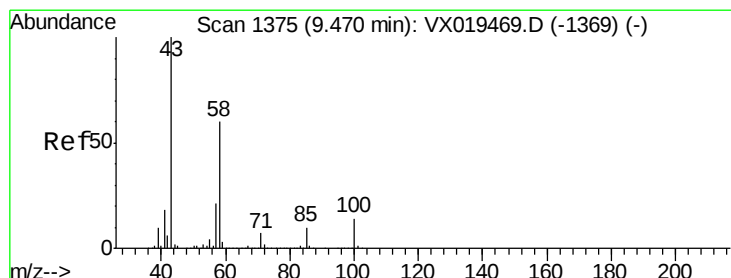
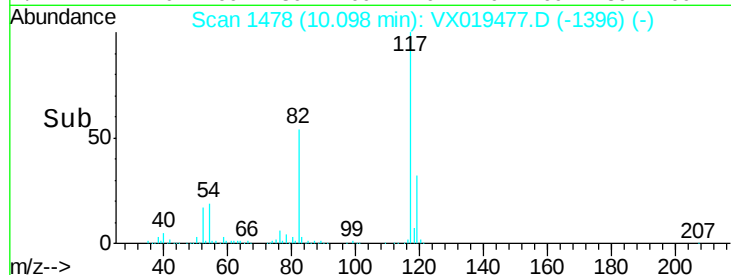
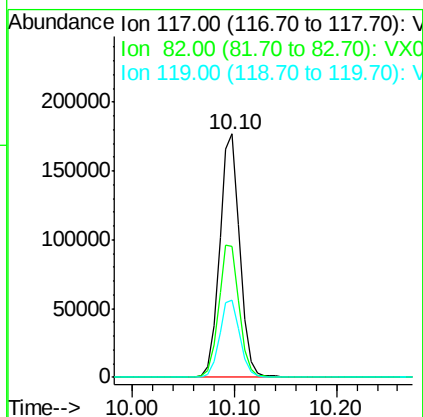
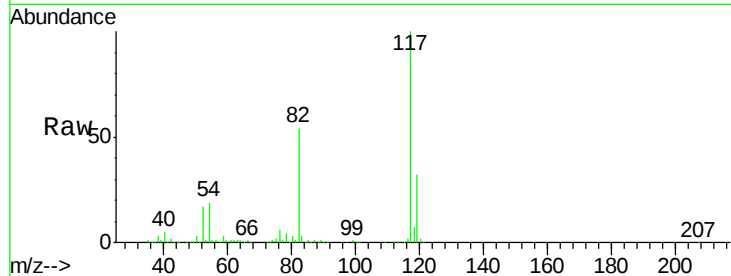




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX019477.D
Acq: 19 Nov 2020 19:41

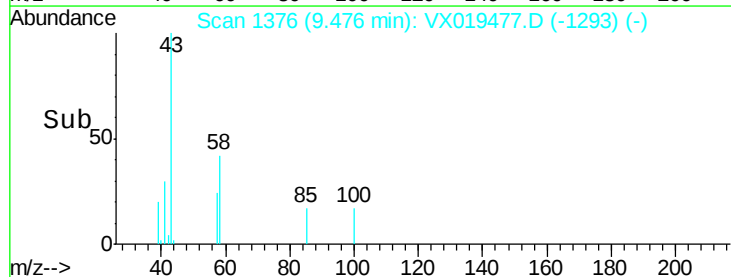
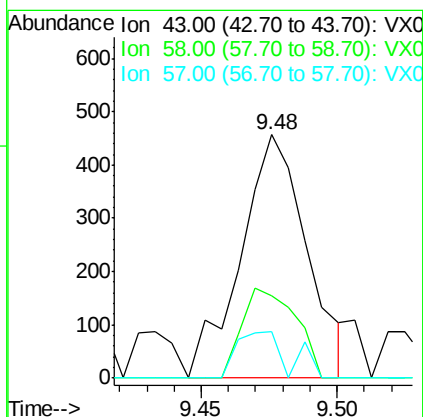
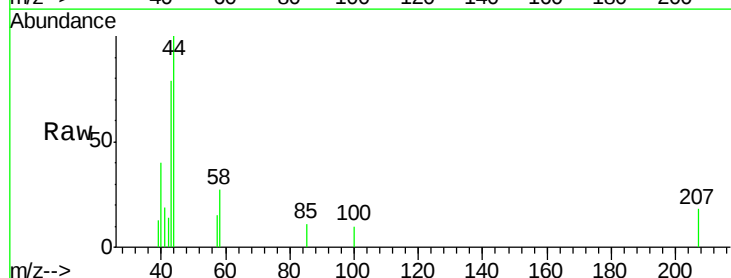
Instrument :
MSVOA_X
ClientSampleId :
TT-TB-20201118

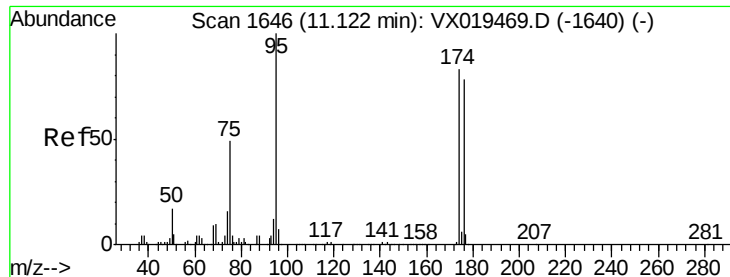
Tot Ion:117 Resp: 243178
Ion Ratio Lower Upper
117 100
82 55.8 44.5 66.7
119 32.0 25.9 38.9



#59
2-Hexanone
Concen: 0.257 ug/l
RT: 9.48 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VX019477.D
Acq: 19 Nov 2020 19:41

Tgt Ion: 43 Resp: 770
Ion Ratio Lower Upper
43 100
58 30.1 49.0 73.6#
57 11.7 17.0 25.4#





#60

4-Bromofluorobenzene

Concen: 27.301 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019477.D

Acq: 19 Nov 2020 19:41

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20201118

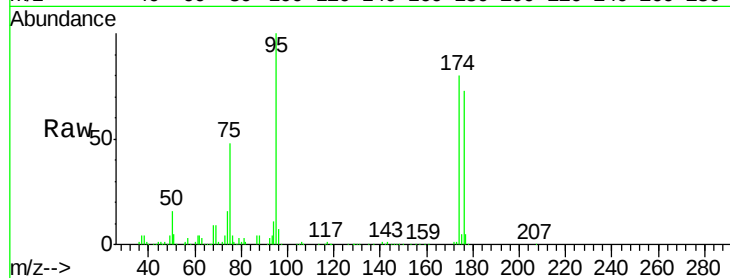
Tot Ion: 95 Resp: 108274

Ion Ratio Lower Upper

95 100

174 79.4 63.5 95.3

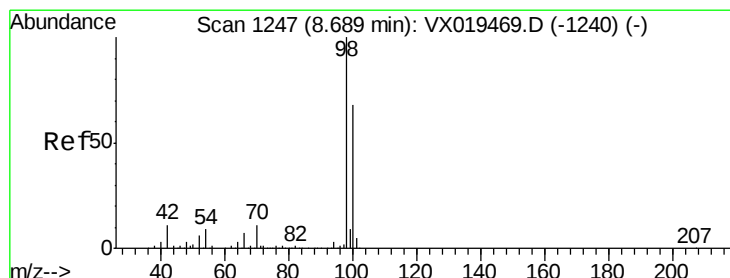
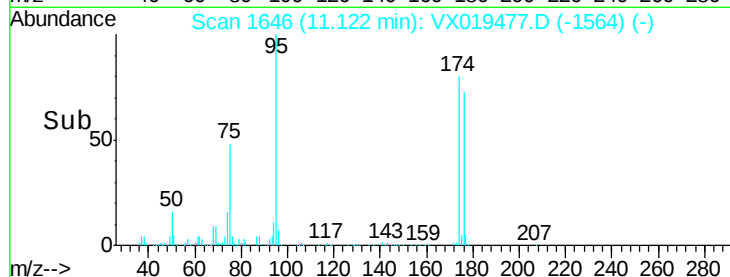
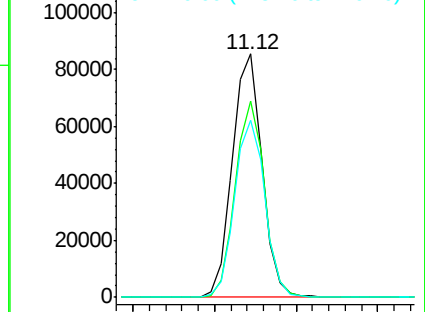
176 74.3 59.8 89.6



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Toluene-d8

Concen: 29.687 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VX019477.D

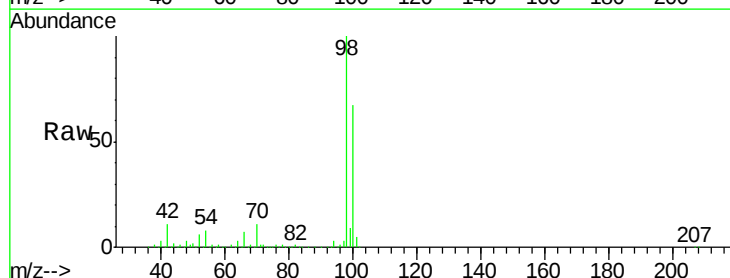
Acq: 19 Nov 2020 19:41

Tgt Ion: 98 Resp: 321795

Ion Ratio Lower Upper

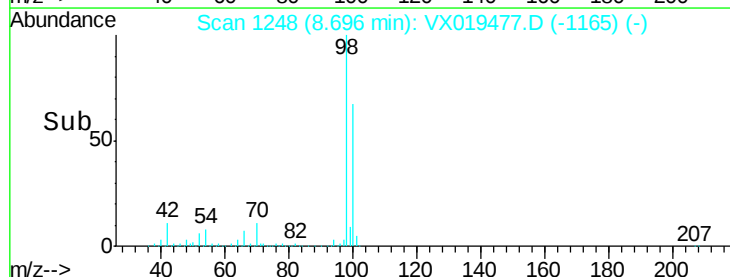
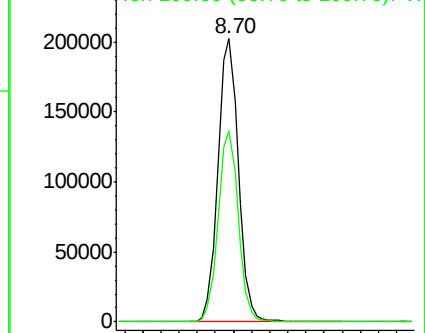
98 100

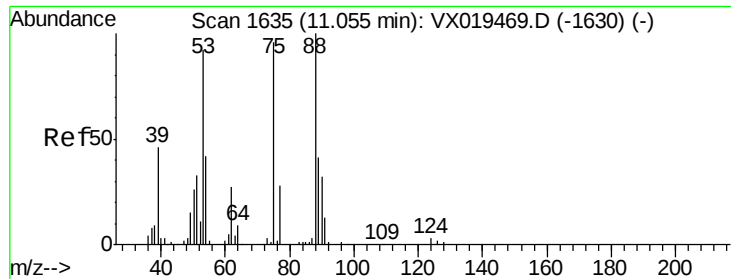
100 66.3 53.6 80.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

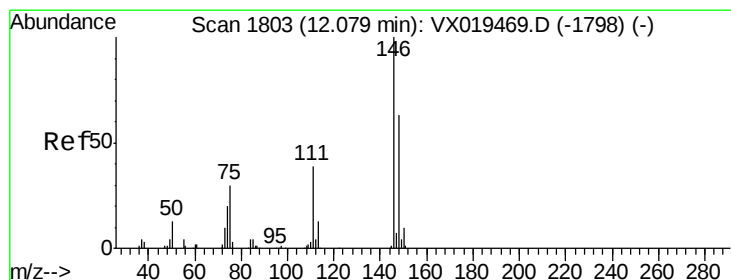
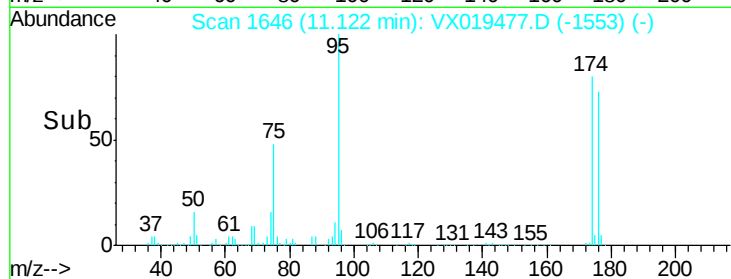
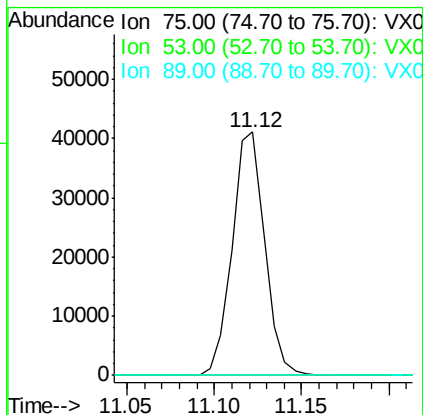
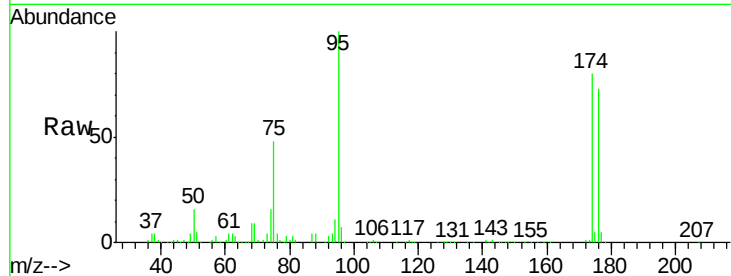




#77
t-1,4-Dichloro-2-butene
Concen: 35.332 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX019477.D
Acq: 19 Nov 2020 19:41

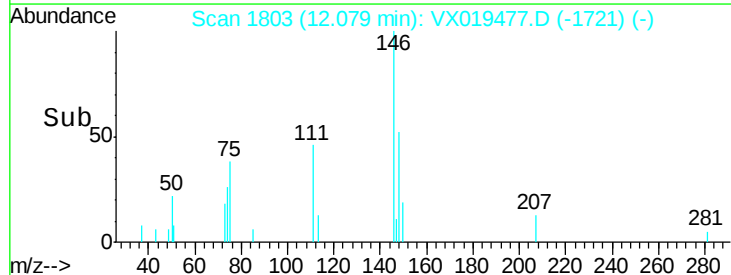
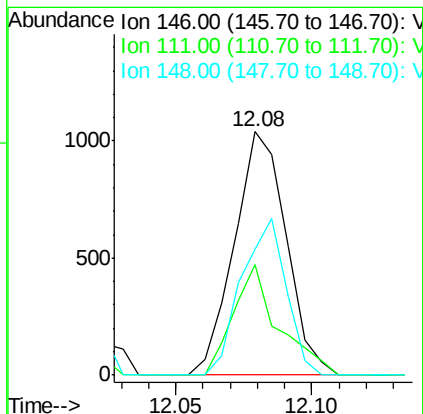
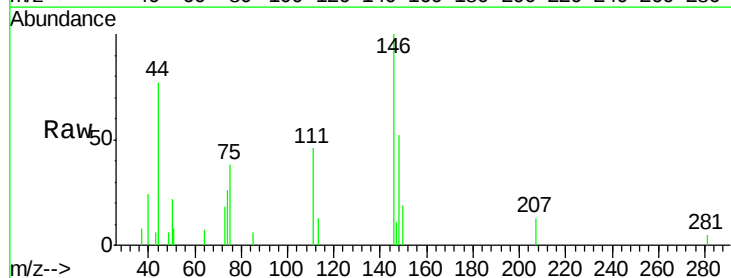
Instrument :
MSVOA_X
ClientSampleId :
TT-TB-20201118

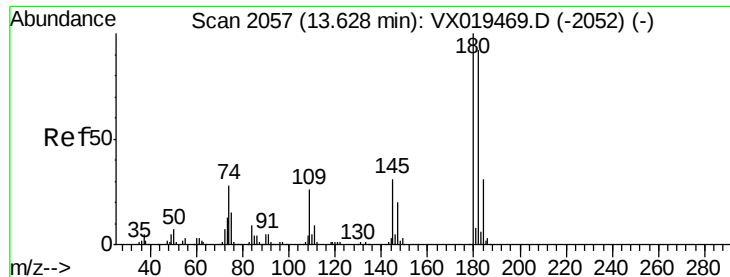
Tot Ion: 75 Resp: 53305
Ion Ratio Lower Upper
75 100
53 0.0 47.9 143.6#
89 0.0 21.4 64.2#



#84
1,4-Dichlorobenzene
Concen: 0.206 ug/l
RT: 12.08 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VX019477.D
Acq: 19 Nov 2020 19:41

Tgt Ion: 146 Resp: 1373
Ion Ratio Lower Upper
146 100
111 39.7 19.3 57.9
148 55.6 31.4 94.2

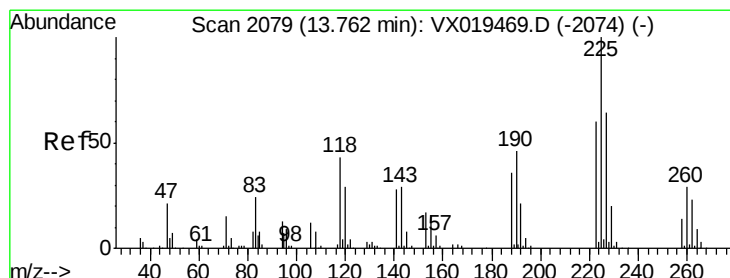
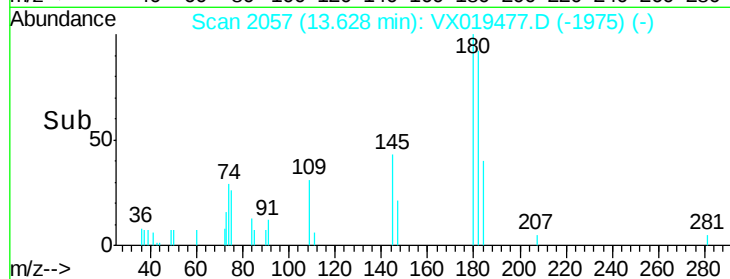
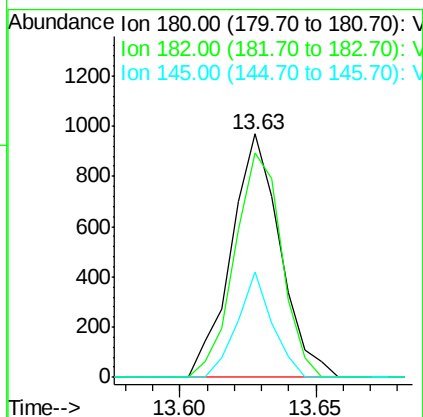
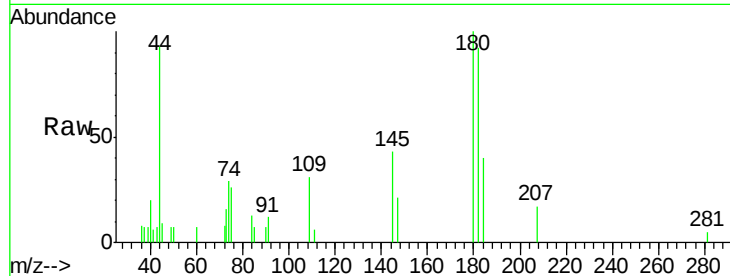




#89
 1,2,4-Trichlorobenzene
 Concen: 0.279 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX019477.D
 Acq: 19 Nov 2020 19:41

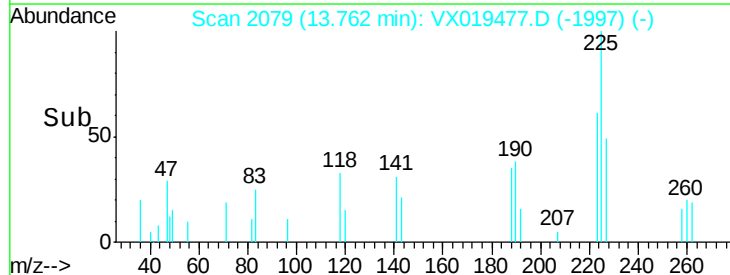
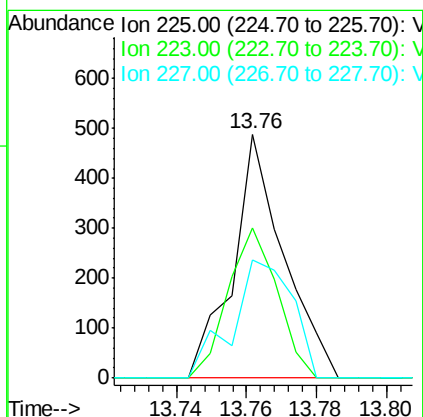
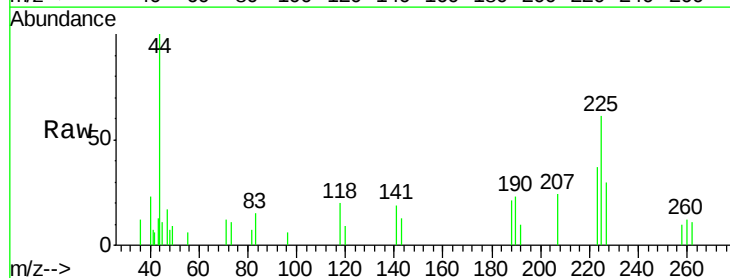
Instrument :
 MSVOA_X
 ClientSampleId :
 TT-TB-20201118

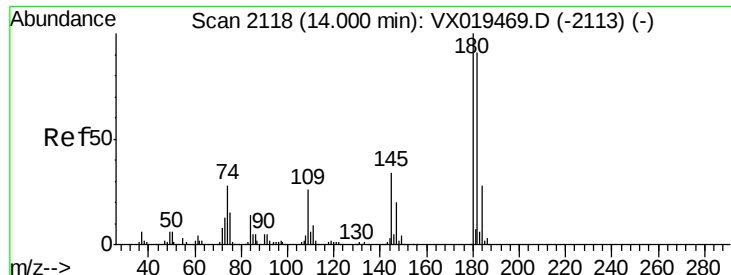
Tot Ion:180 Resp: 1213
 Ion Ratio Lower Upper
 180 100
 182 88.0 76.1 114.1
 145 30.8 24.7 37.1



#90
 Hexachlorobutadiene
 Concen: 0.251 ug/l
 RT: 13.76 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VX019477.D
 Acq: 19 Nov 2020 19:41

Tgt Ion:225 Resp: 492
 Ion Ratio Lower Upper
 225 100
 223 59.6 0.0 119.2
 227 57.1 0.0 126.4

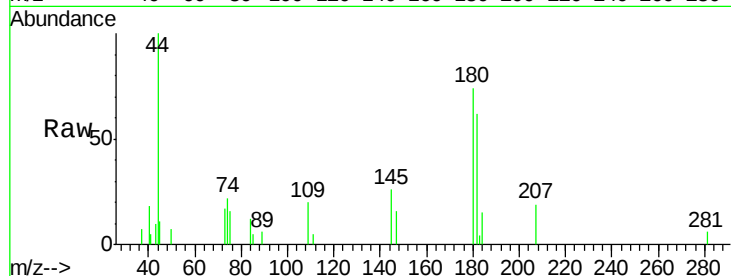




#92
 1,2,3-Trichlorobenzene
 Concen: 0.247 ug/l
 RT: 14.00 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VX019477.D
 Acq: 19 Nov 2020 19:41

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-TB-20201118

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.4	0.0	192.2
145	32.9	0.0	63.6



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

