

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100520\
 Data File : VX018778.D
 Acq On : 05 Oct 2020 20:27
 Operator : JC/SP
 Sample : L4240-01 40X
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3Q7

Quant Time: Oct 06 01:48:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR100220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 06 01:36:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	140318	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	132622	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	62201	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	39124	4.77	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.40%
7) Chloroethane-d5	1.70	69	34852	5.43	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	108.60%
11) 1,1-Dichloroethene-d2	2.34	63	69635	3.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.40%
20) 2-Butanone-d5	4.56	46	136654	63.56	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	127.12%
24) Chloroform-d	5.14	84	99781	5.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.60%
26) 1,2-Dichloroethane-d4	6.03	65	57038	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.20%
32) Benzene-d6	6.05	84	186985	5.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	113.40%
36) 1,2-Dichloropropane-d6	7.37	67	56306	5.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	118.20%
41) Toluene-d8	8.70	98	164180	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.00%
45) trans-1,3-Dichloropropene-	8.99	79	24338	4.75	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.00%
48) 2-Hexanone-d5	9.43	63	110110	64.09	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	128.18%
59) 1,1,2,2-Tetrachloroethane-	11.23	84	44318	5.72	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	114.40%
65) 1,2-Dichlorobenzene-d4	12.36	152	67062	5.85	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	117.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1-Dichloroethene	2.34	96	773	0.111	ug/L #	1
15) Methyl Acetate	2.82	43	7867	2.727	ug/L #	48
16) Methylene chloride	2.83	84	2632	0.311	ug/L	96
22) cis-1,2-Dichloroethene	4.57	96	405	0.052	ug/L #	62
29) 1,1,1-Trichloroethane	5.46	97	1588	0.101	ug/L #	76
30) Cyclohexane	5.54	56	8860	0.814	ug/L	96
33) Benzene	6.05	78	1814	0.065	ug/L	100
35) Methylcyclohexane	7.37	83	14516	1.249	ug/L #	20
37) 1,2-Dichloropropane	7.37	63	6633	0.953	ug/L #	84
39) cis-1,3-Dichloropropene	8.37	75	1723	0.155	ug/L	83
42) Toluene	8.76	91	46075	1.516	ug/L	98
43) 1,3,5-Trimethylbenzene	11.49	105	9013	0.313	ug/L	96
44) 1,2,4-Trimethylbenzene	11.79	105	25591	0.877	ug/L	96
53) Chlorobenzene	10.12	112	1385	0.067	ug/L #	84
54) Ethylbenzene	10.24	91	4624	0.136	ug/L	97
55) m,p-xylene	10.34	106	6241	0.470	ug/L	96
56) o-xylene	10.68	106	2398	0.195	ug/L	98

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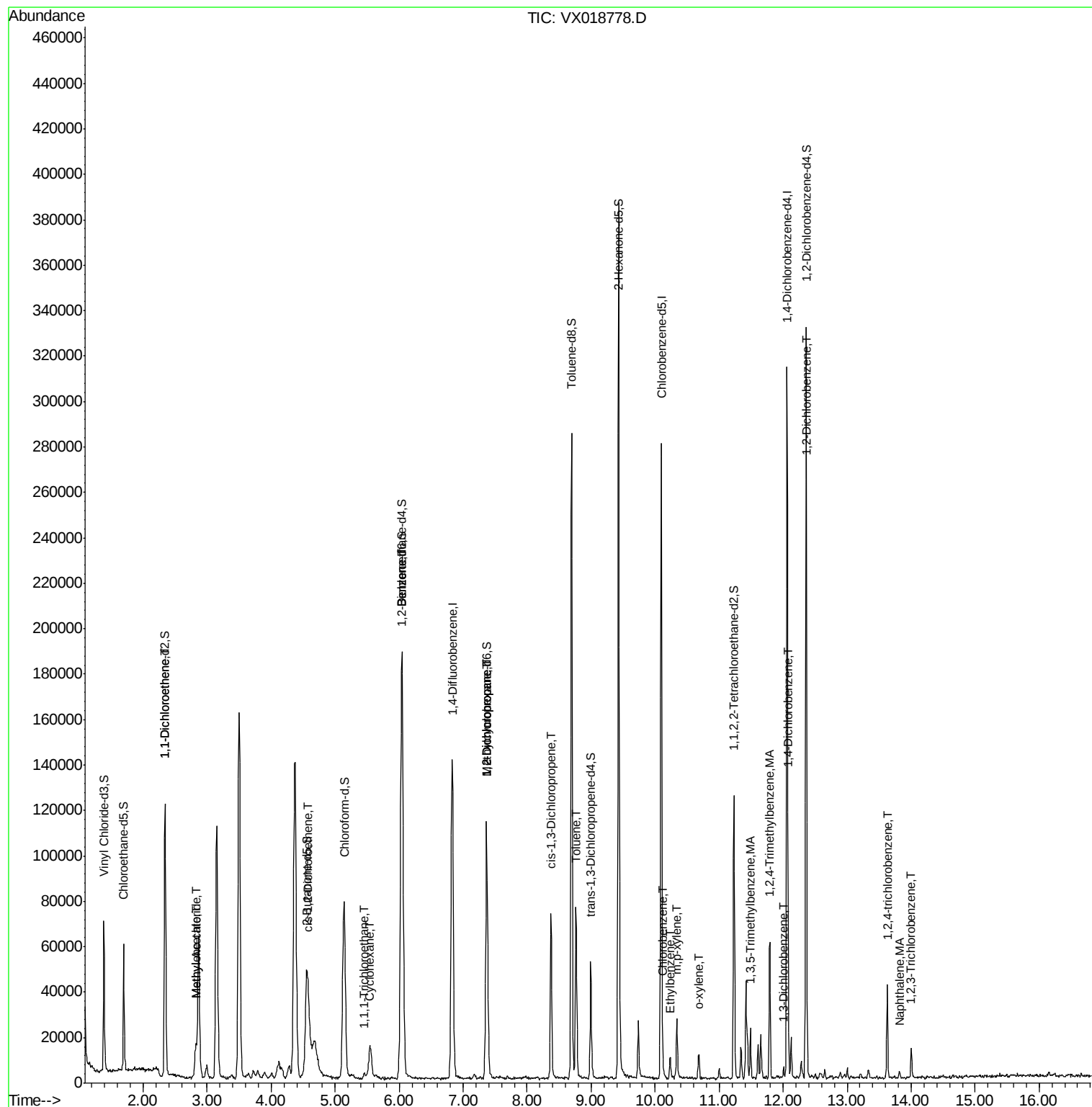
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,3-Dichlorobenzene	12.01	146	1194	0.079	ug/L	83
64) 1,4-Dichlorobenzene	12.08	146	4352	0.289	ug/L	96
66) 1,2-Dichlorobenzene	12.37	146	1483	0.105	ug/L #	61
69) 1,2,4-trichlorobenzene	13.63	180	9074	0.939	ug/L	96
70) Naphthalene	13.82	128	1632	0.103	ug/L #	90
71) 1,2,3-Trichlorobenzene	14.01	180	3141	0.361	ug/L	95

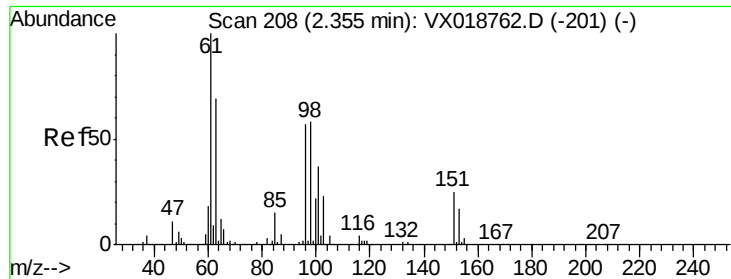
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Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 0.111 ug/L

RT: 2.34 min Scan# 206

Delta R.T. -0.01 min

Lab File: VX018778.D

Acq: 05 Oct 2020 20:27

Instrument :

MSVOA_X

ClientSampled :

BG3Q7

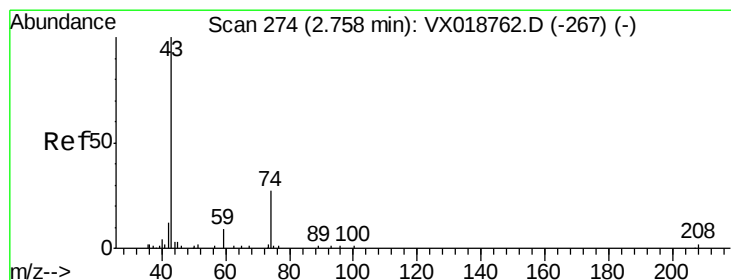
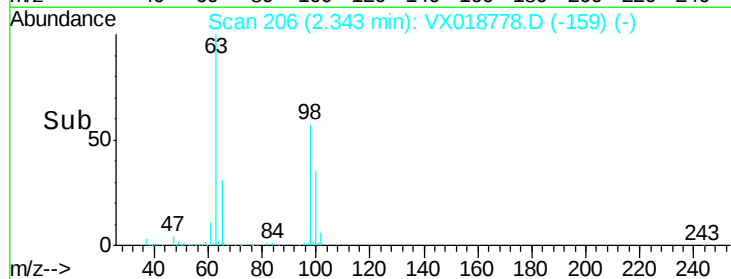
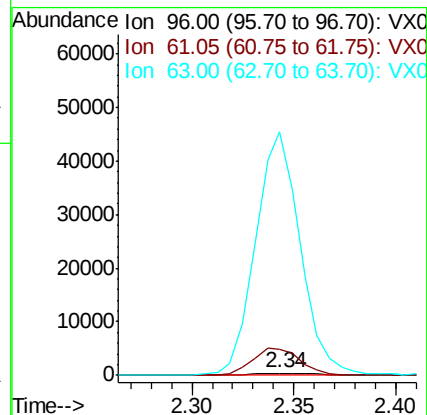
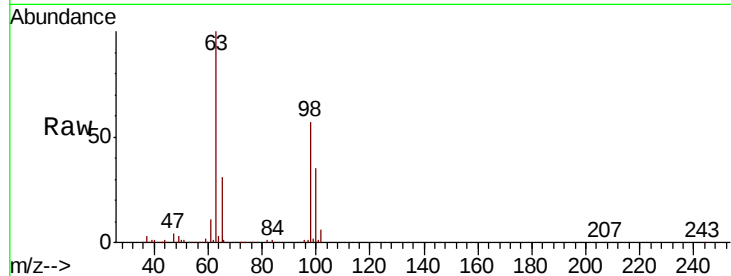
Tot Ion: 96 Resp: 773

Ion Ratio Lower Upper

96 100

61 1372.9 133.2 247.4#

63 12554.7 115.1 213.7#



#15

Methyl Acetate

Concen: 2.727 ug/L

RT: 2.82 min Scan# 285

Delta R.T. 0.07 min

Lab File: VX018778.D

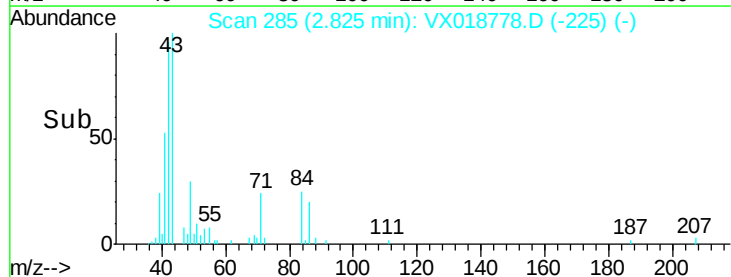
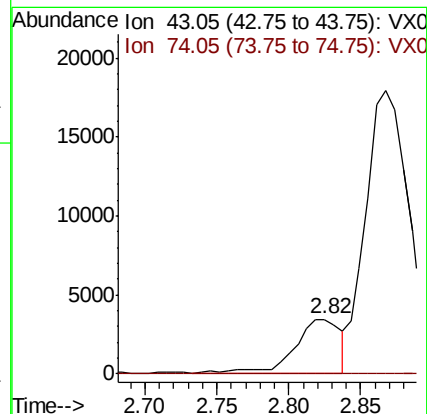
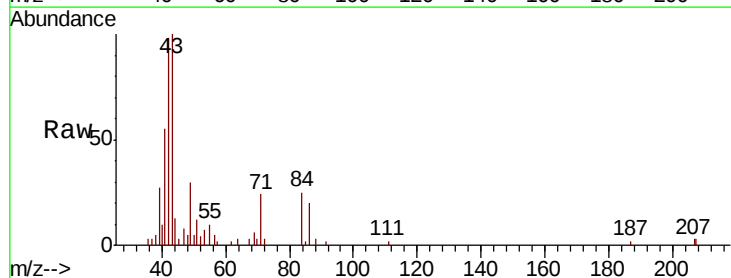
Acq: 05 Oct 2020 20:27

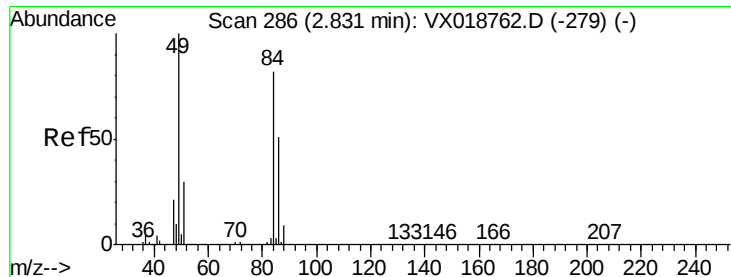
Tgt Ion: 43 Resp: 7867

Ion Ratio Lower Upper

43 100

74 0.3 21.9 32.9#

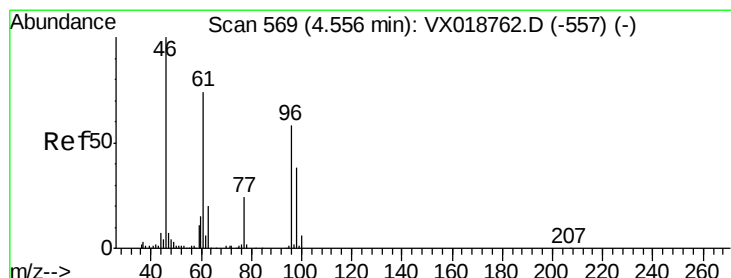
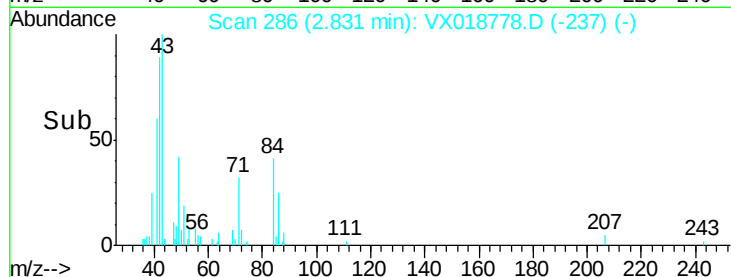
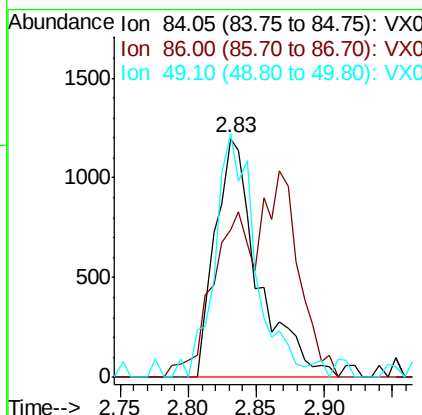
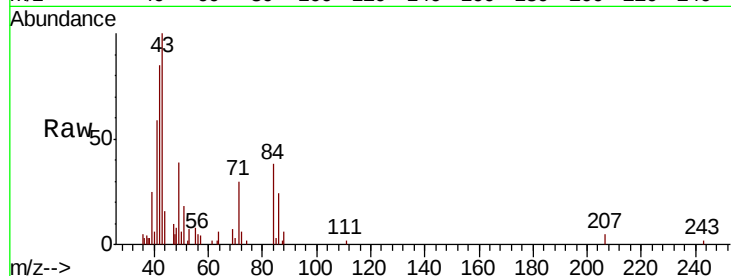




#16
Methylene chloride
Concen: 0.311 ug/L
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX018778.D
Acq: 05 Oct 2020 20:27

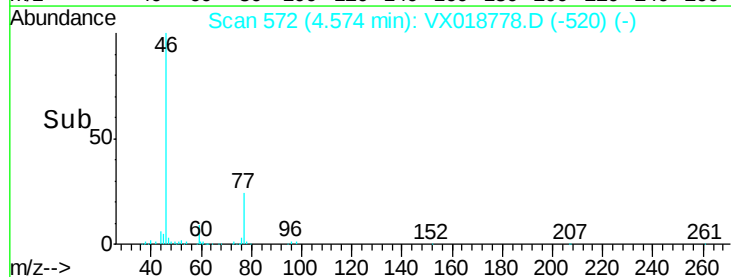
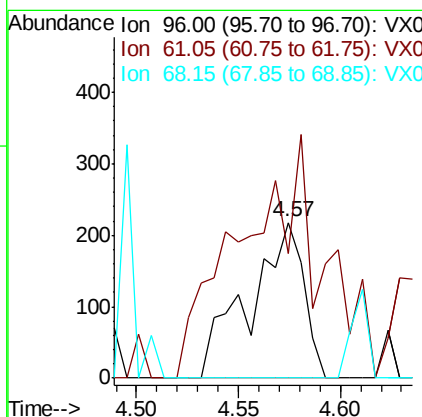
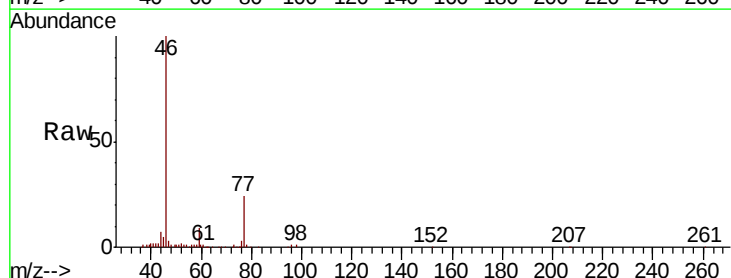
Instrument :
MSVOA_X
ClientSampleId :
BG3Q7

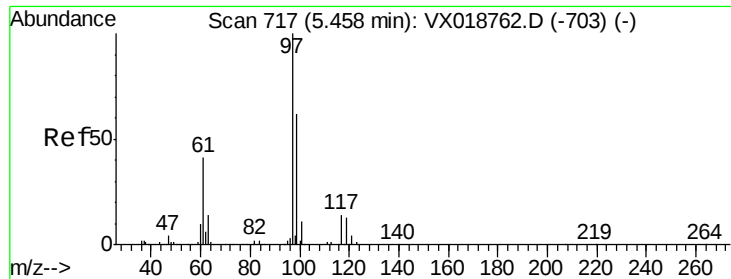
Tot Ion: 84 Resp: 2632
Ion Ratio Lower Upper
84 100
86 61.7 45.6 84.8
49 118.0 85.8 159.3



#22
cis-1,2-Dichloroethene
Concen: 0.052 ug/L
RT: 4.57 min Scan# 572
Delta R.T. 0.02 min
Lab File: VX018778.D
Acq: 05 Oct 2020 20:27

Tgt Ion: 96 Resp: 405
Ion Ratio Lower Upper
96 100
61 80.3 86.2 160.0#
68 0.0 0.3 0.7#

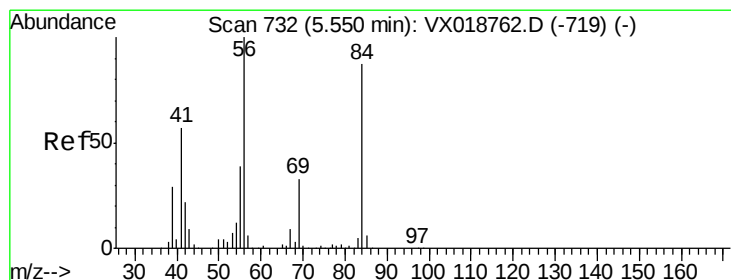
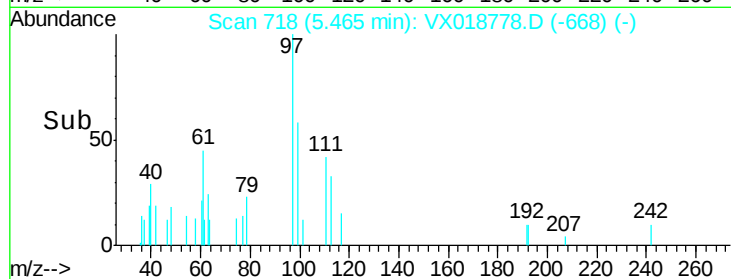
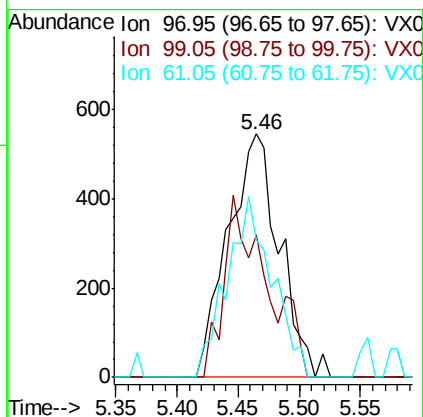
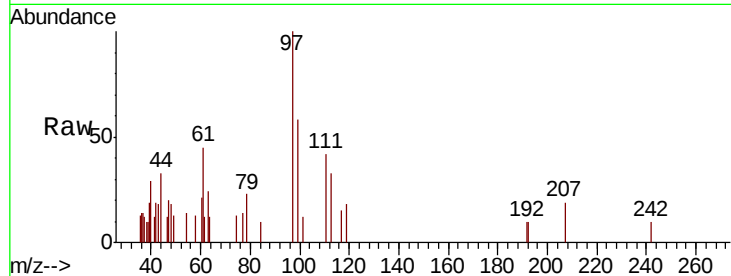




#29
 1,1,1-Trichloroethane
 Concen: 0.101 ug/L
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX018778.D
 Acq: 05 Oct 2020 20:27

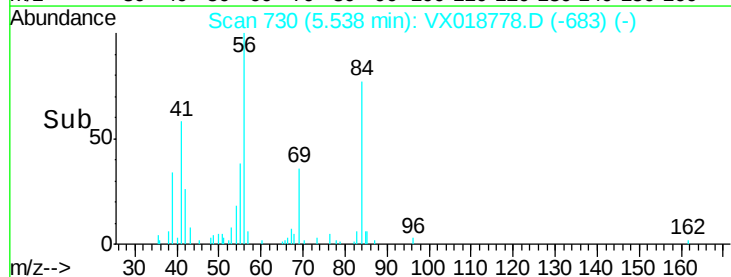
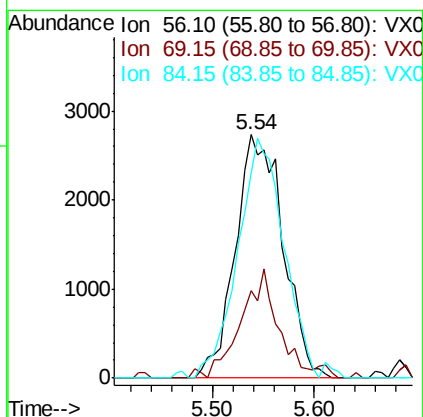
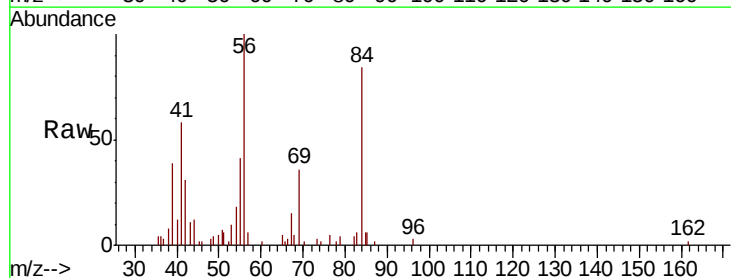
Instrument :
 MSVOA_X
 ClientSampled :
 BG3Q7

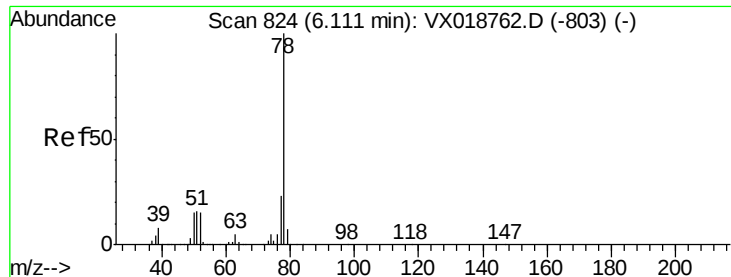
Tot Ion	Ratio	Lower	Upper
97	100		
99	52.4	51.3	76.9
61	65.4	33.3	49.9



#30
 Cyclohexane
 Concen: 0.814 ug/L
 RT: 5.54 min Scan# 730
 Delta R.T. -0.01 min
 Lab File: VX018778.D
 Acq: 05 Oct 2020 20:27

Tgt Ion	Ratio	Lower	Upper
56	100		
69	35.3	26.0	39.0
84	95.2	73.8	110.6





#33

Benzene

Concen: 0.065 ug/L

RT: 6.05 min Scan# 814

Delta R.T. -0.06 min

Lab File: VX018778.D

Acq: 05 Oct 2020 20:27

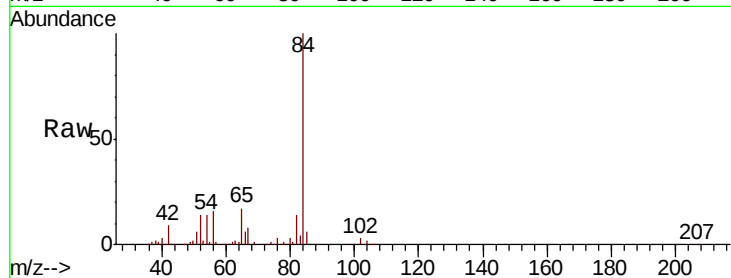
Instrument :

MSVOA_X

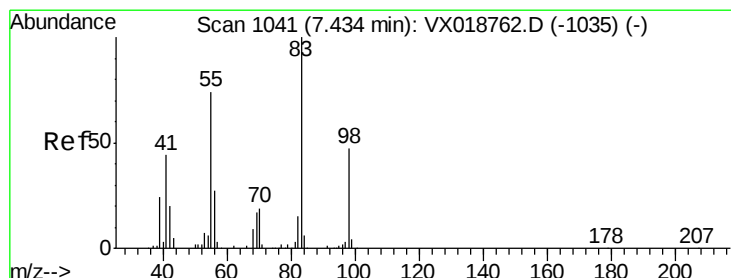
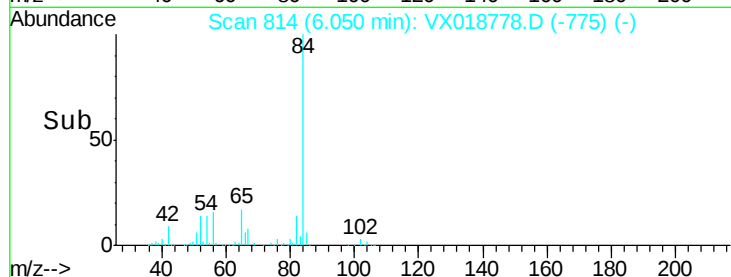
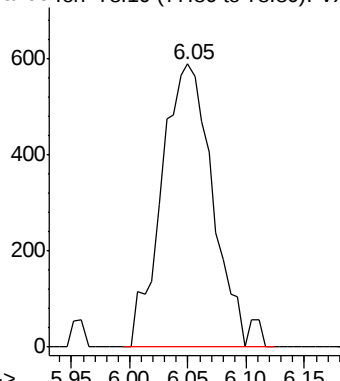
ClientSampleId :

BG3Q7

Tgt Ion: 78 Resp: 1814



Abundance Ion 78.10 (77.80 to 78.80): VX0



#35

Methylcyclohexane

Concen: 1.249 ug/L

RT: 7.37 min Scan# 1030

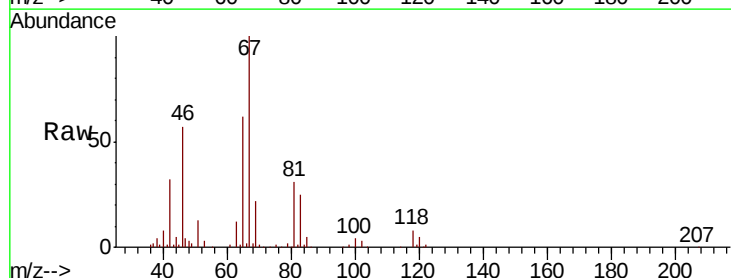
Delta R.T. -0.07 min

Lab File: VX018778.D

Acq: 05 Oct 2020 20:27

Tgt Ion: 83 Resp: 14516

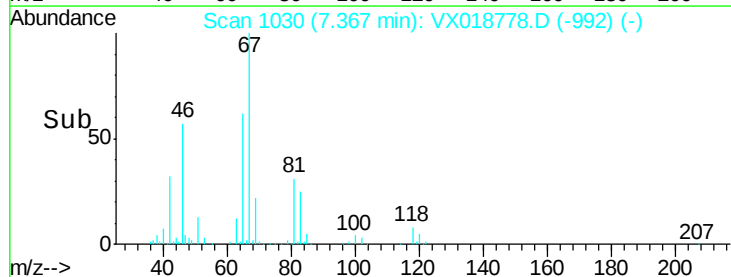
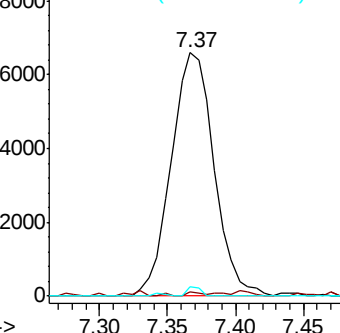
Ion	Ratio	Lower	Upper
83	100		
55	1.0	60.3	90.5#
98	1.1	39.4	59.0#

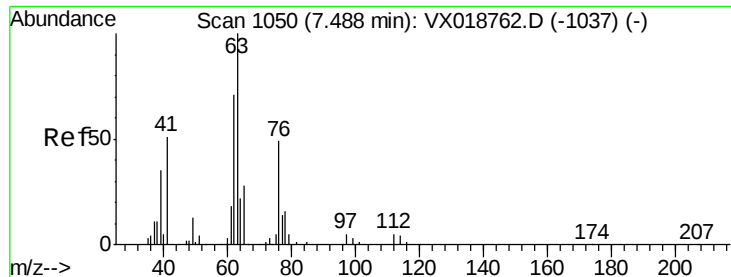


Abundance Ion 83.15 (82.85 to 83.85): VX0

Ion 55.10 (54.80 to 55.80): VX0

Ion 98.15 (97.85 to 98.85): VX0





#37

1,2-Dichloropropane

Concen: 0.953 ug/L

RT: 7.37 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VX018778.D

Acq: 05 Oct 2020 20:27

Instrument :

MSVOA_X

ClientSampled :

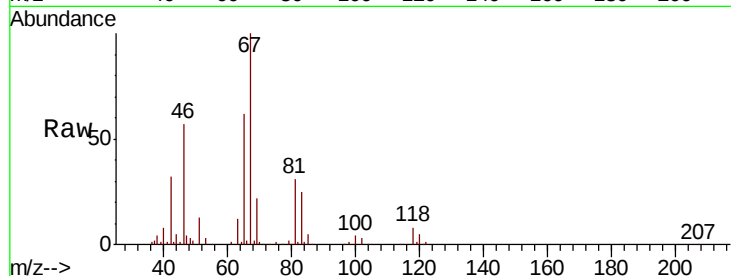
BG3Q7

Tot Ion: 63 Resp: 6633

Ion Ratio Lower Upper

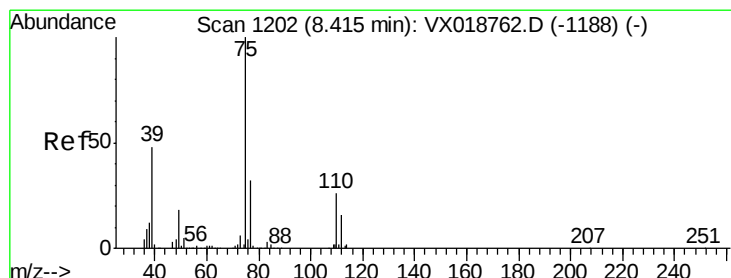
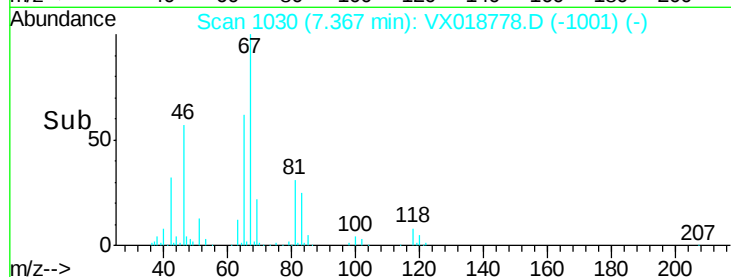
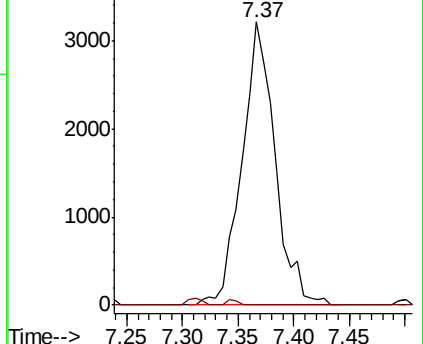
63 100

112 0.7 4.7 7.1#



Abundance Ion 63.10 (62.80 to 63.80): VX0

Ion 112.10 (111.80 to 112.80): V



#39

cis-1,3-Dichloropropene

Concen: 0.155 ug/L

RT: 8.37 min Scan# 1194

Delta R.T. -0.05 min

Lab File: VX018778.D

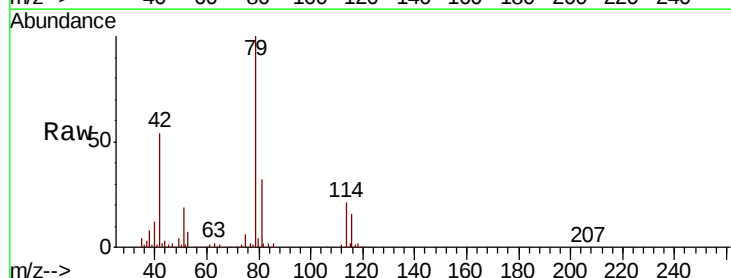
Acq: 05 Oct 2020 20:27

Tgt Ion: 75 Resp: 1723

Ion Ratio Lower Upper

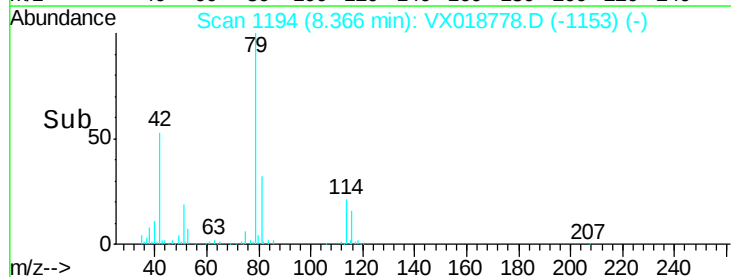
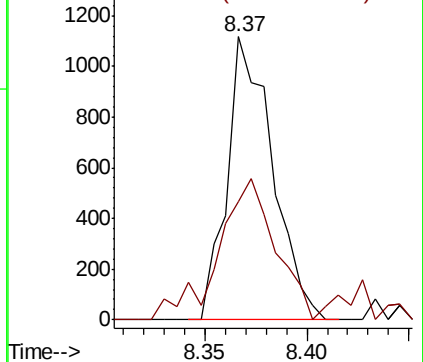
75 100

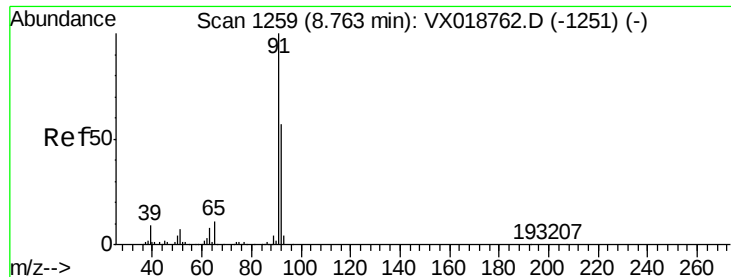
77 41.7 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VX0

Ion 77.05 (76.75 to 77.75): VX0





#42

Toluene

Concen: 1.516 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VX018778.D

Acq: 05 Oct 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

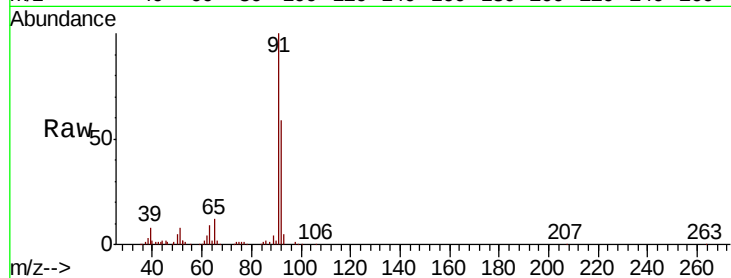
BG3Q7

Tot Ion: 91 Resp: 46075

Ion Ratio Lower Upper

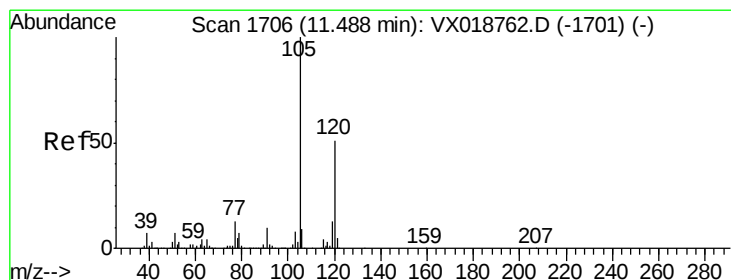
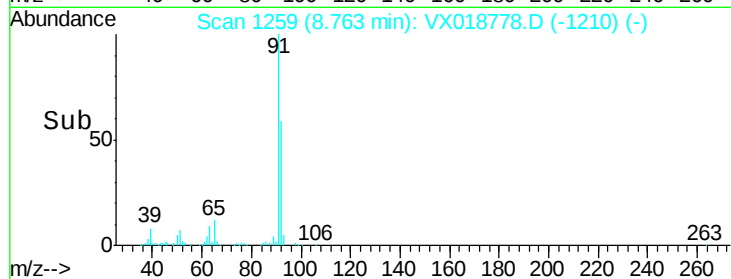
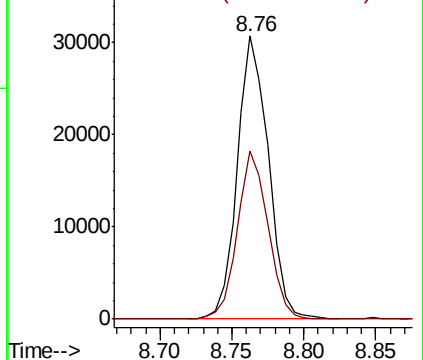
91 100

92 59.3 40.3 74.9



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 92.15 (91.85 to 92.85): VX0



#43

1,3,5-Trimethylbenzene

Concen: 0.313 ug/L

RT: 11.49 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VX018778.D

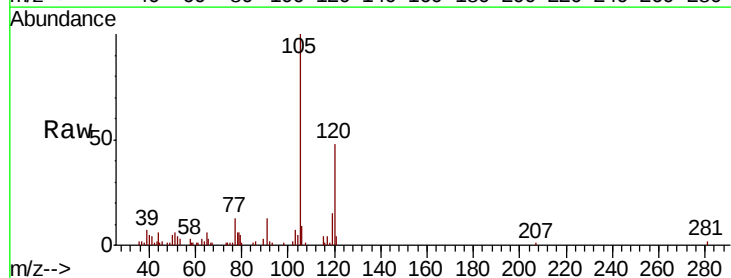
Acq: 05 Oct 2020 20:27

Tgt Ion: 105 Resp: 9013

Ion Ratio Lower Upper

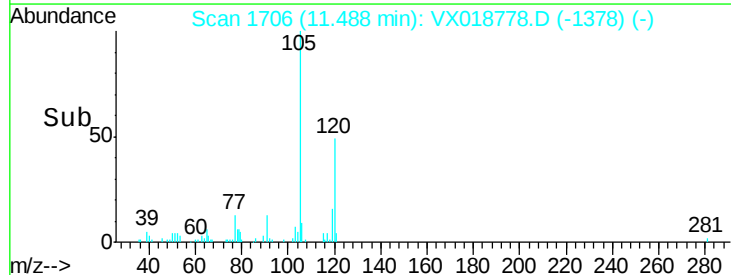
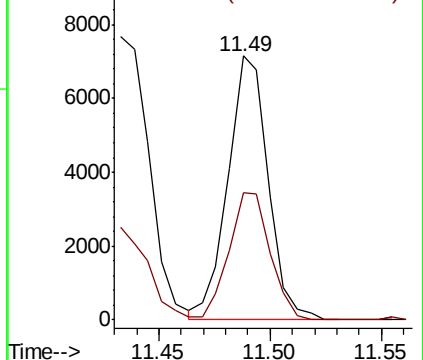
105 100

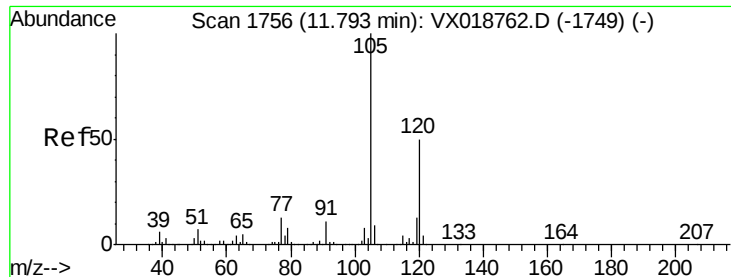
120 49.7 37.7 56.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

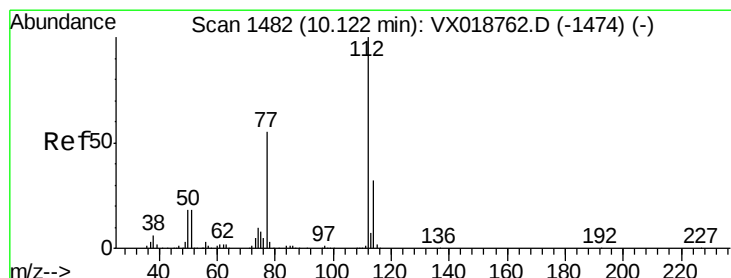
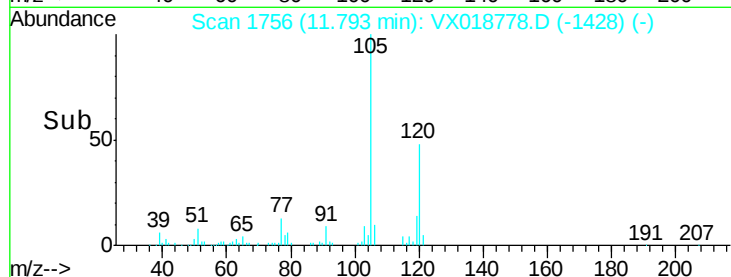
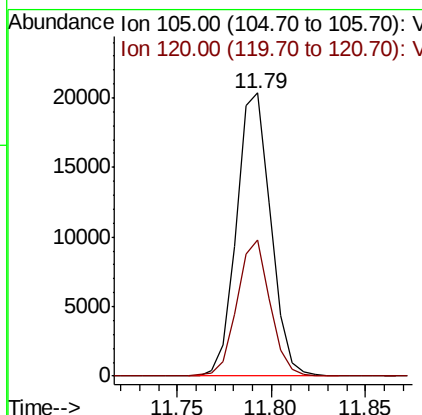
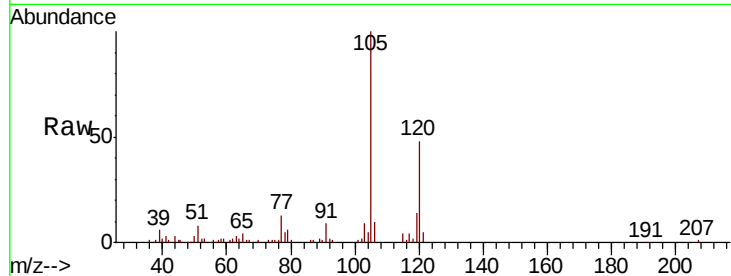




#44
 1,2,4-Trimethylbenzene
 Concen: 0.877 ug/L
 RT: 11.79 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VX018778.D
 Acq: 05 Oct 2020 20:27

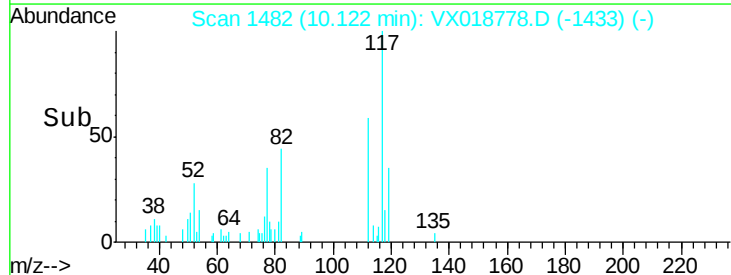
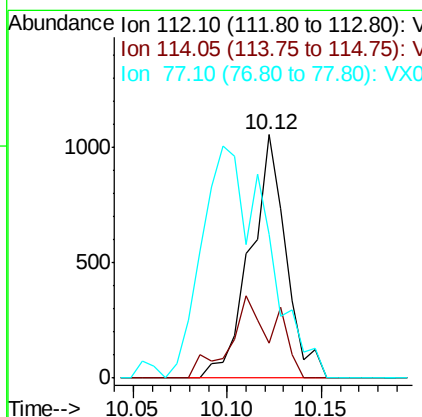
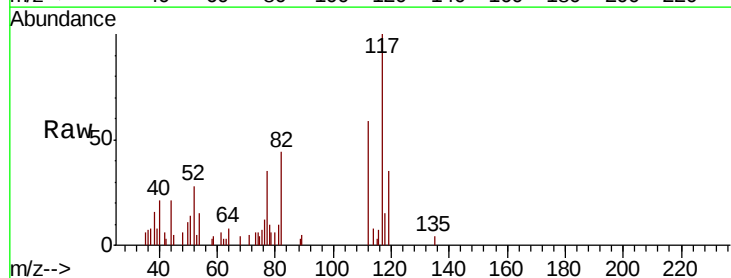
Instrument :
 MSVOA_X
 ClientSampleId :
 BG3Q7

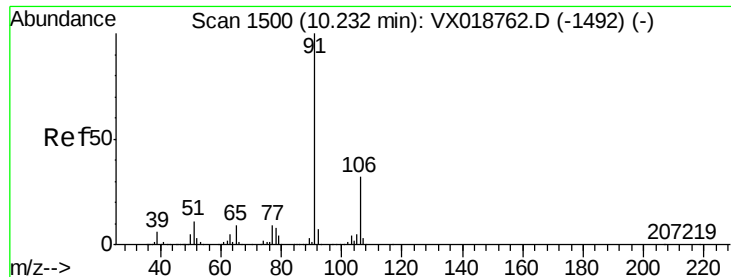
Tot Ion:105 Resp: 25591
 Ion Ratio Lower Upper
 105 100
 120 46.3 35.1 52.7



#53
 Chlorobenzene
 Concen: 0.067 ug/L
 RT: 10.12 min Scan# 1482
 Delta R.T. 0.00 min
 Lab File: VX018778.D
 Acq: 05 Oct 2020 20:27

Tgt Ion:112 Resp: 1385
 Ion Ratio Lower Upper
 112 100
 114 14.1 21.3 39.5#
 77 58.8 42.4 63.6





#54

Ethylbenzene

Concen: 0.136 ug/L

RT: 10.24 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VX018778.D

Acq: 05 Oct 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

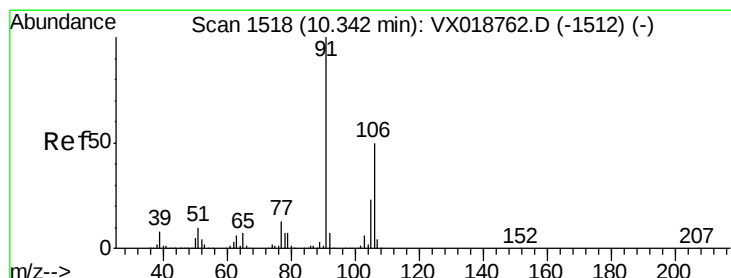
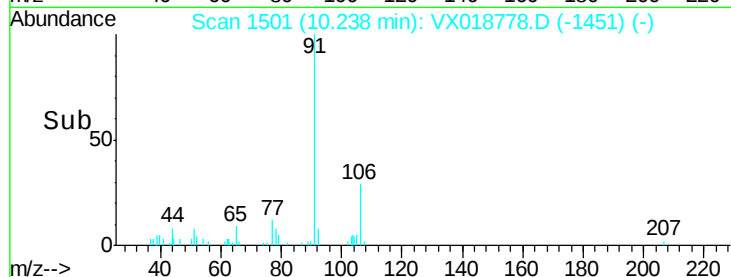
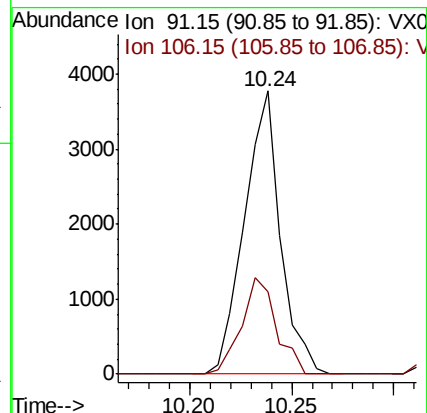
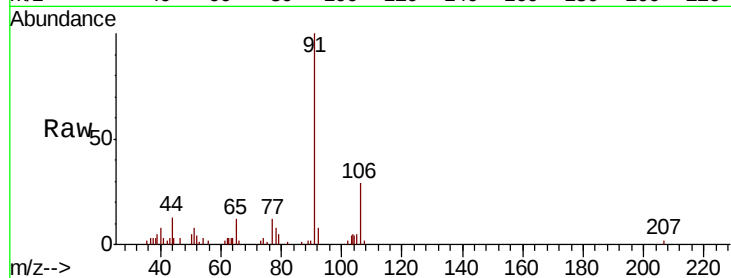
BG3Q7

Tot Ion: 91 Resp: 4624

Ion Ratio Lower Upper

91 100

106 29.2 21.5 39.9



#55

m,p-xylene

Concen: 0.470 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX018778.D

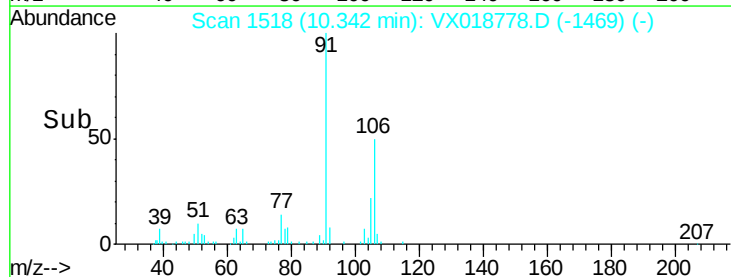
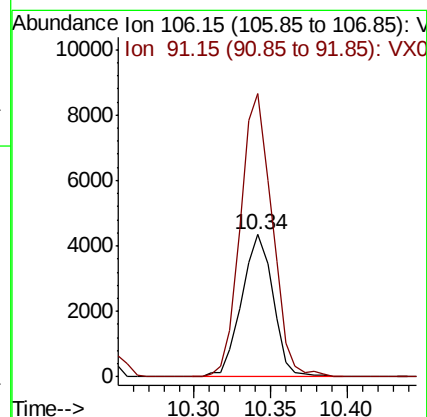
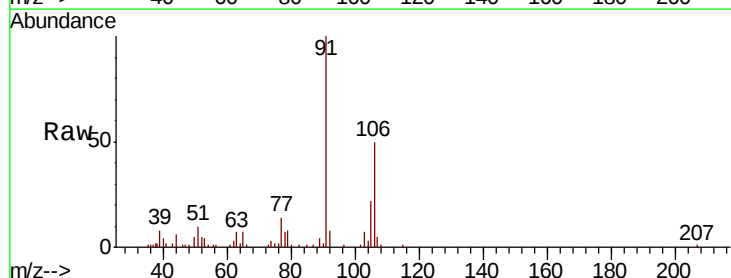
Acq: 05 Oct 2020 20:27

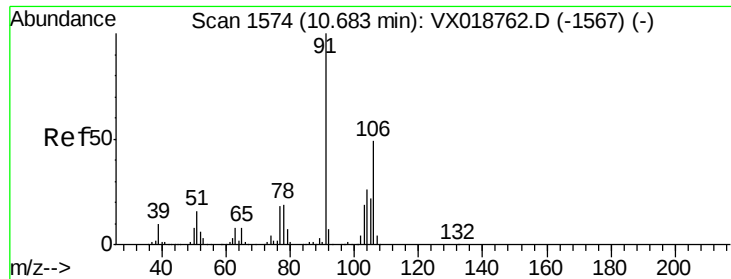
Tgt Ion: 106 Resp: 6241

Ion Ratio Lower Upper

106 100

91 198.9 143.4 266.2





#56

o-xylene

Concen: 0.195 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VX018778.D

Acq: 05 Oct 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

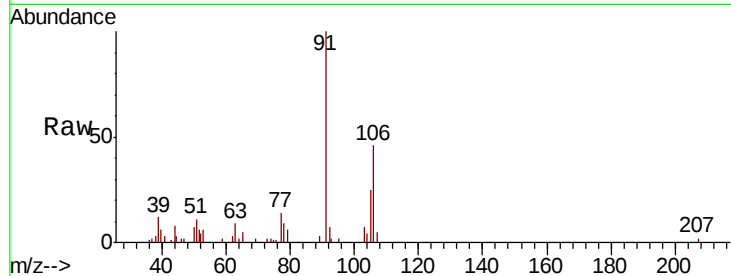
BG3Q7

Tot Ion:106 Resp: 2398

Ion Ratio Lower Upper

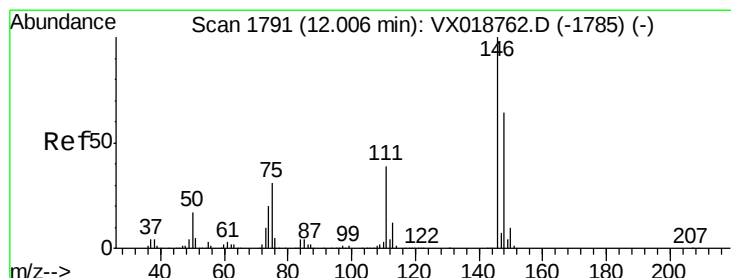
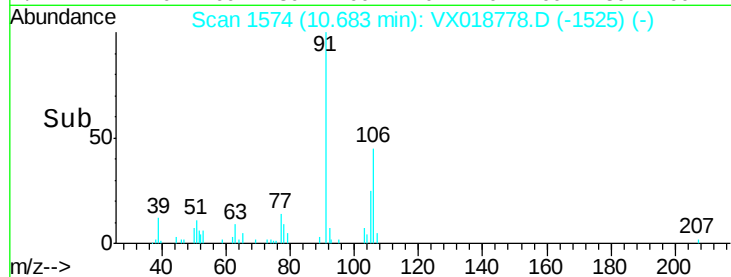
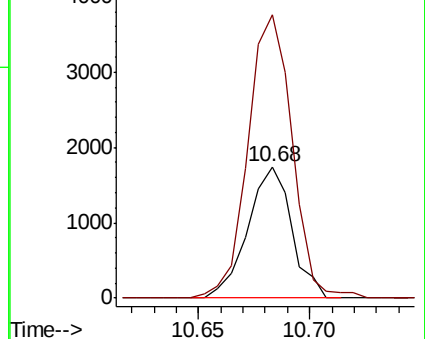
106 100

91 215.3 153.4 284.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0



#63

1,3-Dichlorobenzene

Concen: 0.079 ug/L

RT: 12.01 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VX018778.D

Acq: 05 Oct 2020 20:27

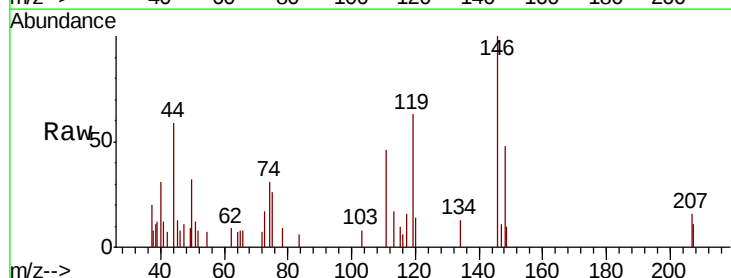
Tgt Ion:146 Resp: 1194

Ion Ratio Lower Upper

146 100

111 46.2 28.4 52.8

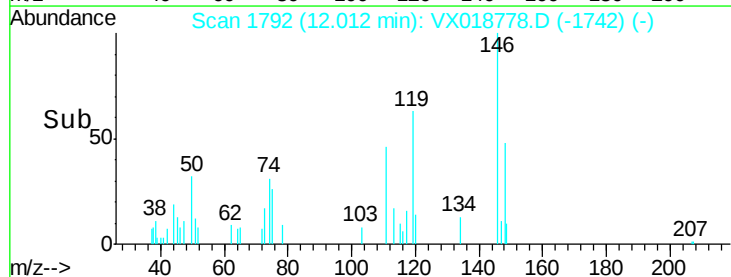
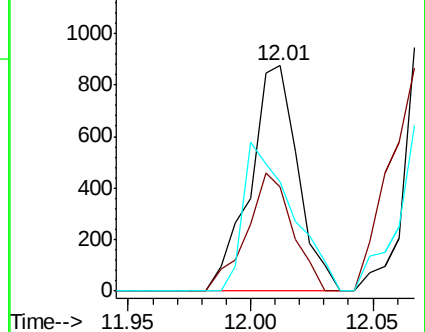
148 48.3 45.9 85.3

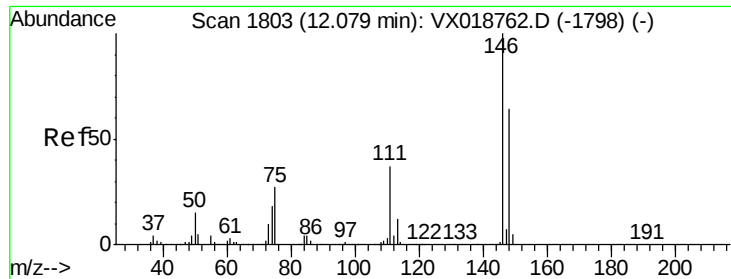


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 0.289 ug/L

RT: 12.08 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VX018778.D

Acq: 05 Oct 2020 20:27

Instrument :

MSVOA_X

ClientSampleId :

BG3Q7

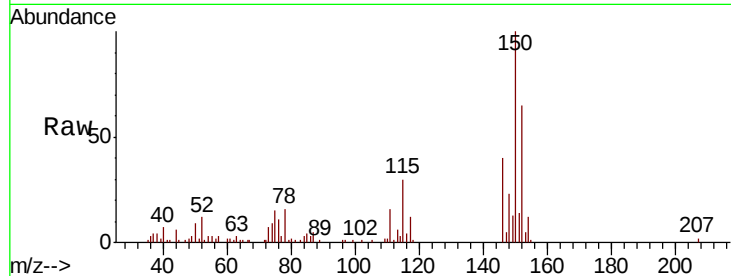
Tot Ion:146 Resp: 4352

Ion Ratio Lower Upper

146 100

111 40.2 28.6 53.2

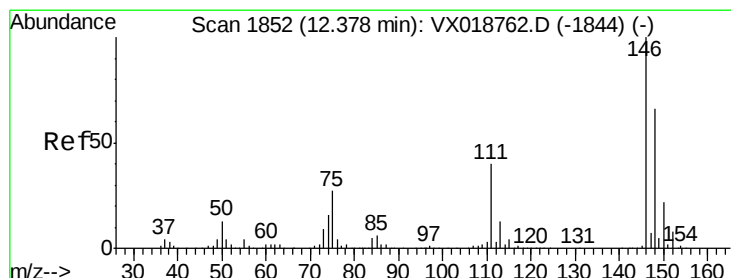
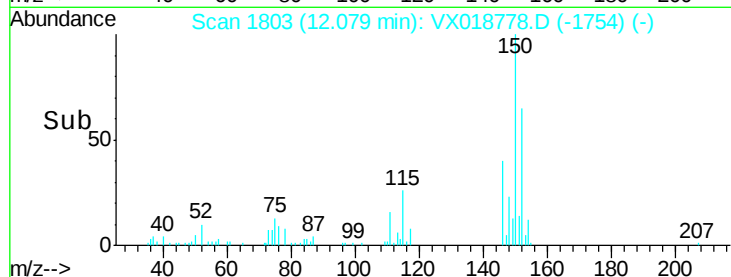
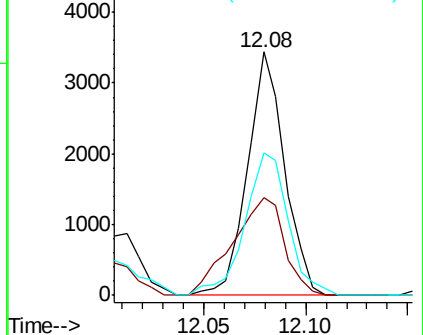
148 58.6 44.2 82.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dichlorobenzene

Concen: 0.105 ug/L

RT: 12.37 min Scan# 1851

Delta R.T. -0.01 min

Lab File: VX018778.D

Acq: 05 Oct 2020 20:27

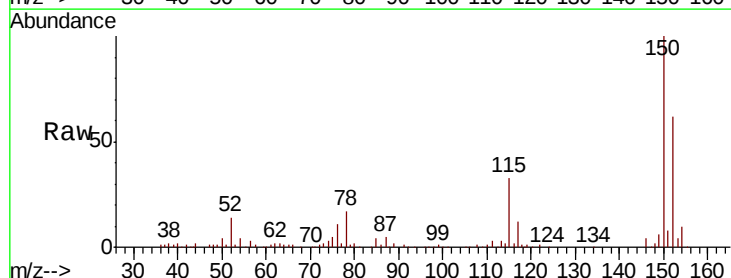
Tgt Ion:146 Resp: 1483

Ion Ratio Lower Upper

146 100

111 67.8 31.7 47.5#

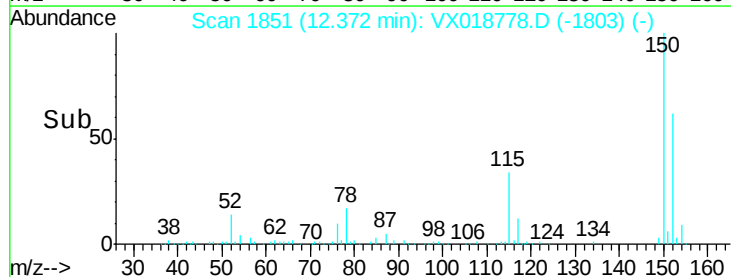
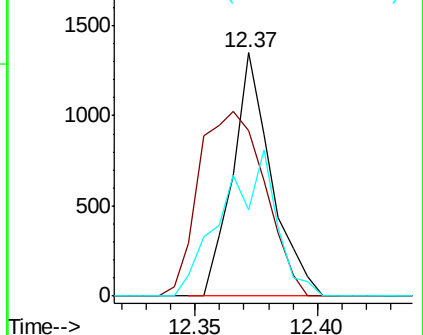
148 35.3 49.0 73.6#

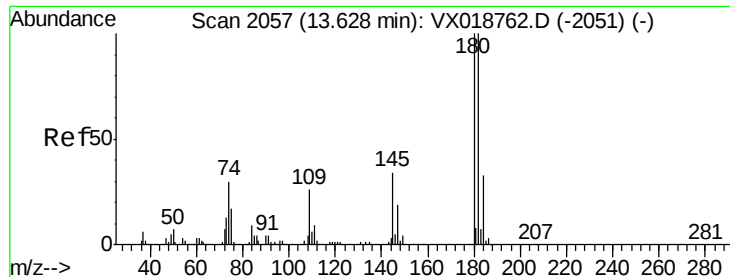


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

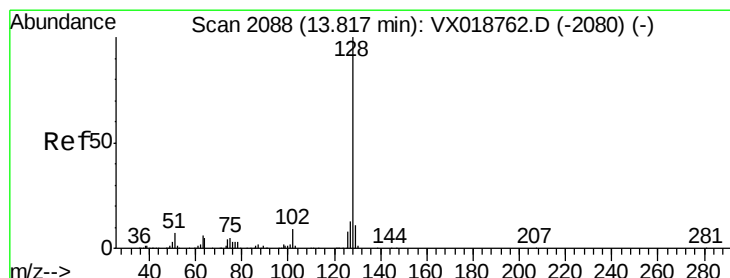
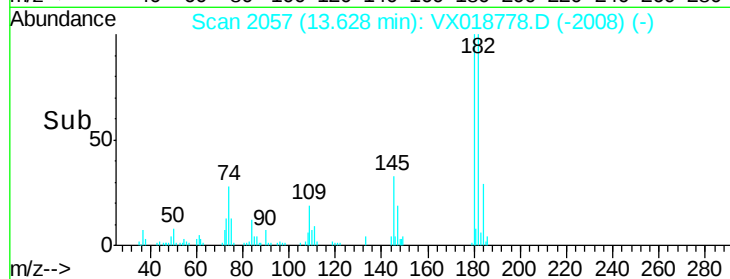
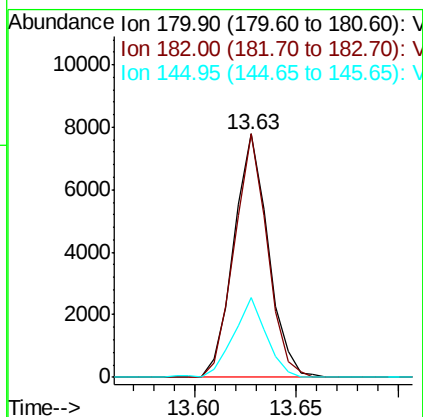
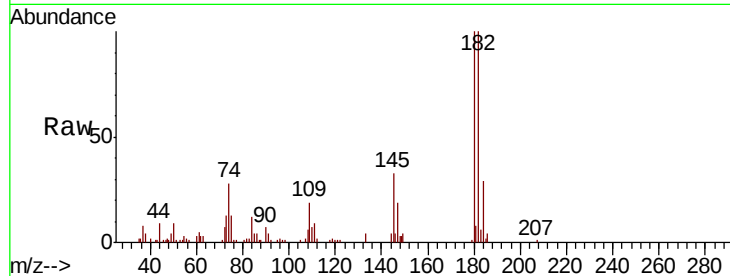




#69
 1,2,4-trichlorobenzene
 Concen: 0.939 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX018778.D
 Acq: 05 Oct 2020 20:27

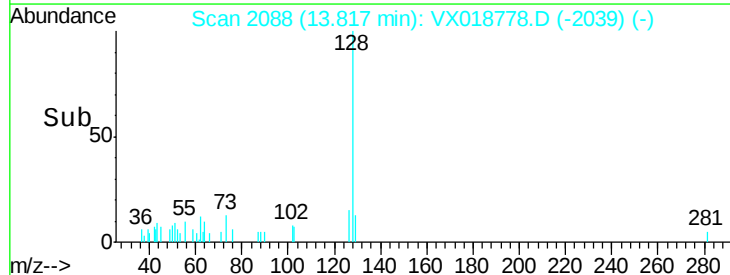
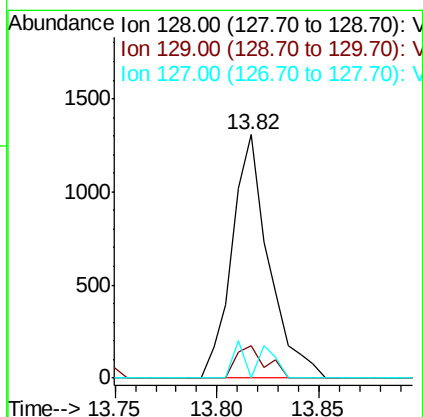
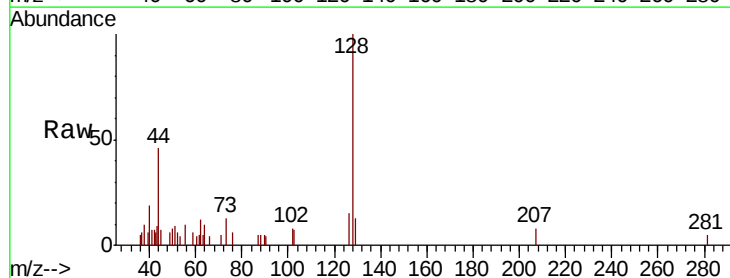
Instrument :
 MSVOA_X
 ClientSampled :
 BG3Q7

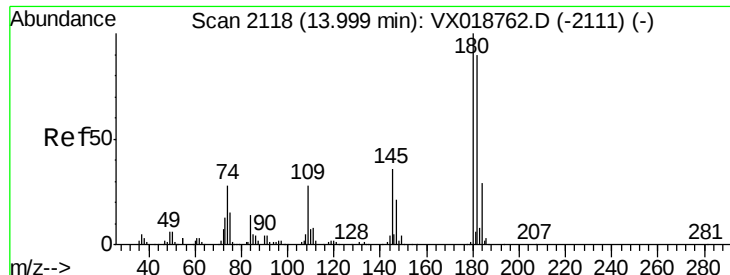
Tot Ion:180 Resp: 9074
 Ion Ratio Lower Upper
 180 100
 182 95.4 80.2 120.4
 145 31.5 25.2 37.8



#70
 Naphthalene
 Concen: 0.103 ug/L
 RT: 13.82 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VX018778.D
 Acq: 05 Oct 2020 20:27

Tgt Ion:128 Resp: 1632
 Ion Ratio Lower Upper
 128 100
 129 10.4 9.0 13.4
 127 6.4 10.5 15.7#

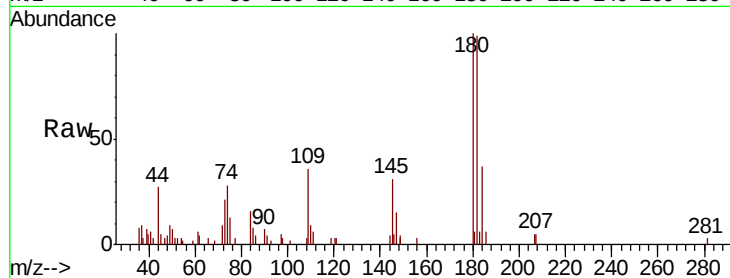




#71
 1,2,3-Trichlorobenzene
 Concen: 0.361 ug/L
 RT: 14.01 min Scan# 2119
 Delta R.T. 0.01 min
 Lab File: VX018778.D
 Acq: 05 Oct 2020 20:27

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3Q7

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	73.6	110.4
145	37.0	26.6	40.0



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 181.90 (181.60 to 182.60): V
 Ion 144.95 (144.65 to 145.65): V

