

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX100520\
 Data File : VX018774.D
 Acq On : 05 Oct 2020 18:45
 Operator : JC/SP
 Sample : L4239-05DL 100X
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3N5DL

Quant Time: Oct 06 01:47:13 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	147738	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	139830	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	72538	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	42486	4.92	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.40%
7) Chloroethane-d5	1.70	69	36298	5.37	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	107.40%
11) 1,1-Dichloroethene-d2	2.34	63	73408	3.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.40%
20) 2-Butanone-d5	4.56	46	142133	62.79	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	125.58%
24) Chloroform-d	5.14	84	104579	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.20%
26) 1,2-Dichloroethane-d4	6.03	65	60168	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%
32) Benzene-d6	6.05	84	199737	5.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	115.00%
36) 1,2-Dichloropropane-d6	7.37	67	59918	5.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	119.20%
41) Toluene-d8	8.70	98	181303	5.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.80%
45) trans-1,3-Dichloropropene-	8.99	79	26891	4.97	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.40%
48) 2-Hexanone-d5	9.43	63	117766	65.01	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	130.02%#
59) 1,1,2,2-Tetrachloroethane-	11.23	84	48136	5.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	117.80%
65) 1,2-Dichlorobenzene-d4	12.36	152	78291	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
5) Vinyl chloride	1.39	62	2532	0.318	ug/L #	72
8) Chloroethane	1.71	64	504	0.104	ug/L #	1
12) 1,1-Dichloroethene	2.37	96	2631	0.358	ug/L #	12
14) Carbon disulfide	2.55	76	1666	0.072	ug/L	98
15) Methyl Acetate	2.87	43	58479	19.252	ug/L #	48
16) Methylene chloride	2.83	84	3110	0.349	ug/L #	84
18) trans-1,2-Dichloroethene	3.15	96	1569	0.199	ug/L #	47
19) 1,1-Dichloroethane	3.67	63	19883	1.419	ug/L	95
22) cis-1,2-Dichloroethene	4.56	96	139490	17.165	ug/L #	97
29) 1,1,1-Trichloroethane	5.46	97	235994	14.267	ug/L	100
30) Cyclohexane	5.54	56	15266	1.331	ug/L	99
34) Trichloroethene	7.18	95	1096	0.127	ug/L #	62
35) Methylcyclohexane	7.37	83	15879	1.296	ug/L #	20
39) cis-1,3-Dichloropropene	8.37	75	2039	0.174	ug/L #	79
42) Toluene	8.76	91	1574513	49.140	ug/L	98
43) 1,3,5-Trimethylbenzene	11.49	105	278902	9.197	ug/L	98
44) 1,2,4-Trimethylbenzene	11.79	105	960635	31.209	ug/L	97

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 06 01:36:50 2020
Response via : Initial Calibration

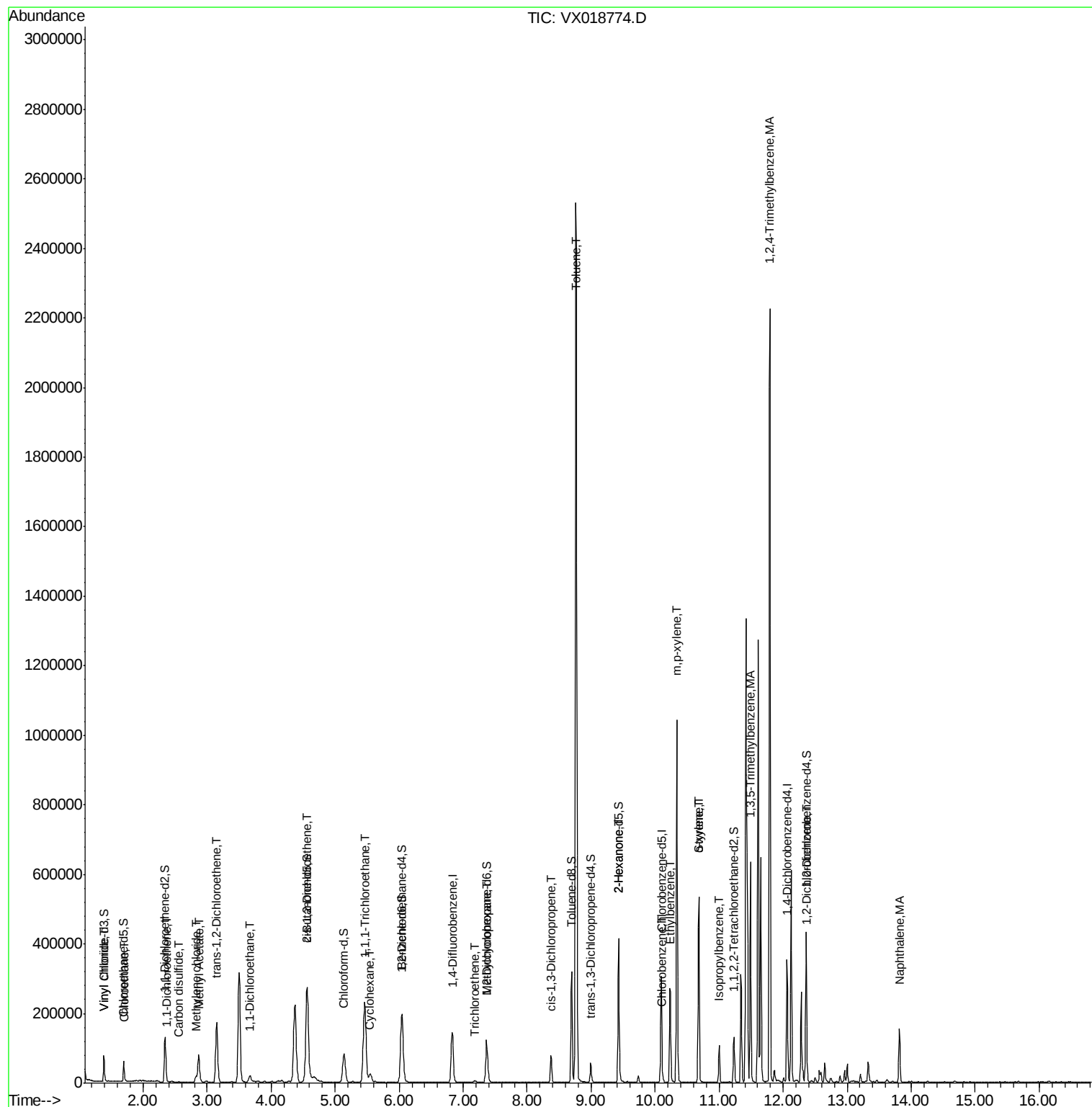
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone	9.43	43	14696	4.761	ug/L #	69
53) Chlorobenzene	10.12	112	4128	0.188	ug/L	93
54) Ethylbenzene	10.24	91	150544	4.191	ug/L	99
55) m,p-xylene	10.34	106	235740	16.826	ug/L	96
56) o-xylene	10.68	106	111024	8.575	ug/L	100
57) Styrene	10.68	104	6441	0.292	ug/L #	1
58) Isopropylbenzene	11.00	105	52243	1.441	ug/L	97
66) 1,2-Dichlorobenzene	12.37	146	6191	0.376	ug/L	98
70) Naphthalene	13.82	128	94283	5.120	ug/L	98

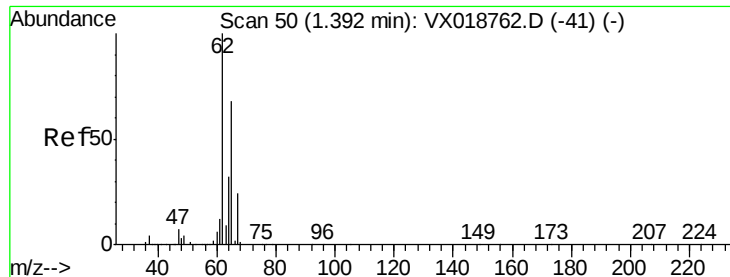
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.318 ug/L

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX018774.D

Acq: 05 Oct 2020 18:45

Instrument :

MSVOA_X

ClientSampleId :

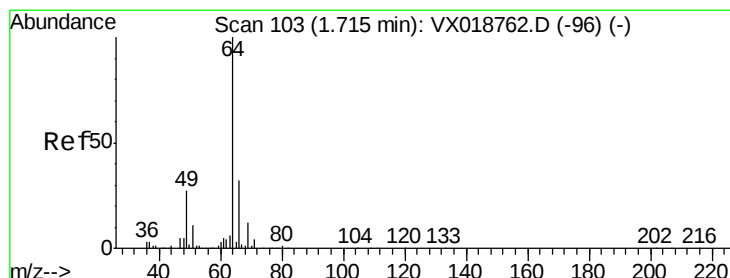
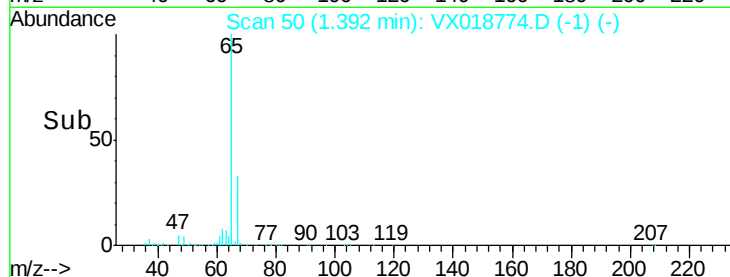
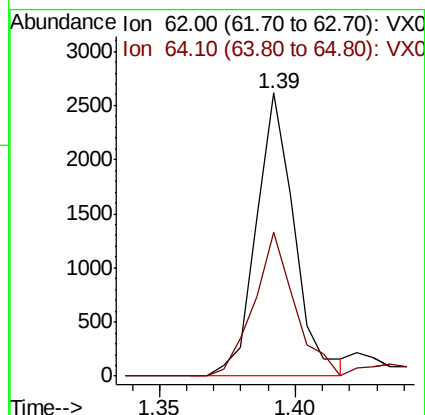
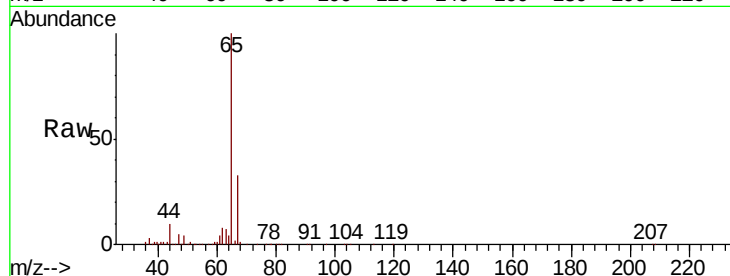
BG3N5DL

Tot Ion: 62 Resp: 2532

Ion Ratio Lower Upper

62 100

64 50.9 24.3 45.1#



#8

Chloroethane

Concen: 0.104 ug/L

RT: 1.71 min Scan# 102

Delta R.T. -0.01 min

Lab File: VX018774.D

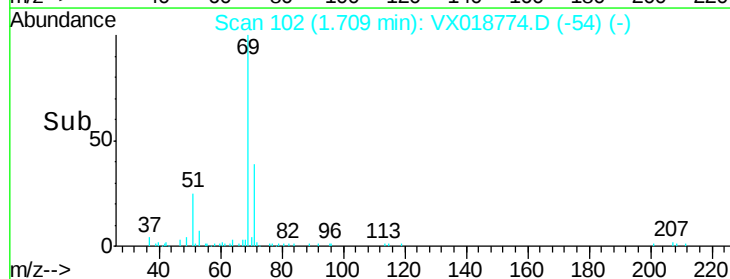
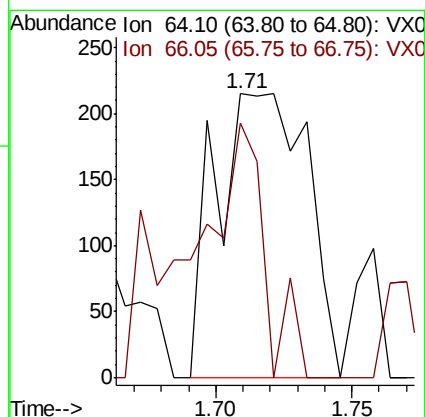
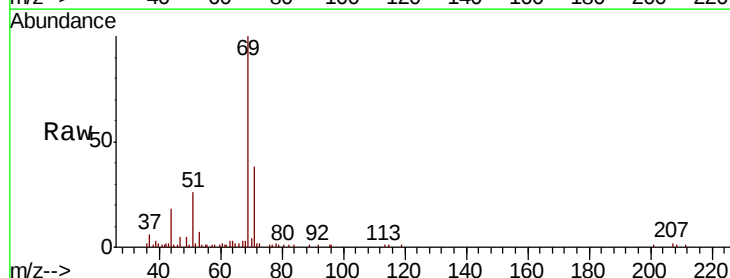
Acq: 05 Oct 2020 18:45

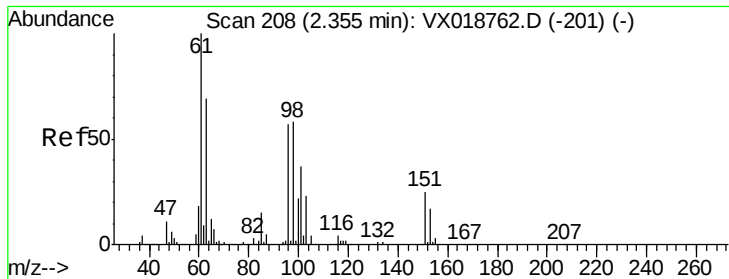
Tgt Ion: 64 Resp: 504

Ion Ratio Lower Upper

64 100

66 89.8 21.5 39.9#





#12

1,1-Dichloroethene

Concen: 0.358 ug/L

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX018774.D

Acq: 05 Oct 2020 18:45

Instrument :

MSVOA_X

ClientSampleId :

BG3N5DL

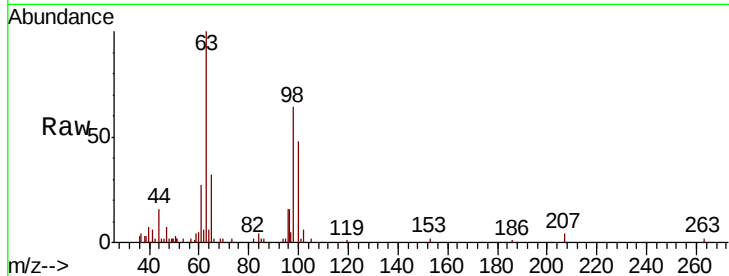
Tot Ion: 96 Resp: 2631

Ion Ratio Lower Upper

96 100

61 82.3 133.2 247.4#

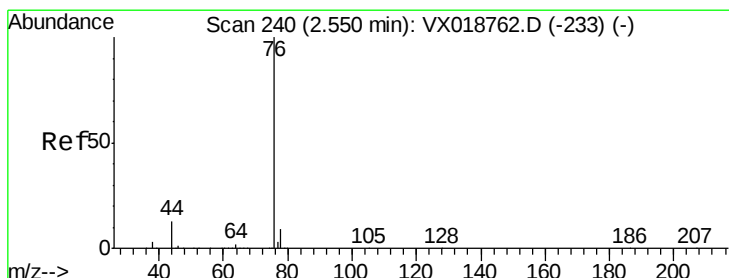
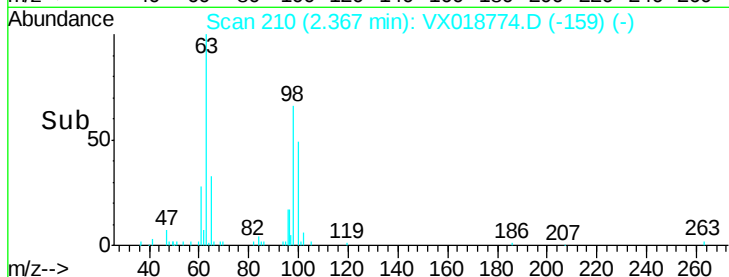
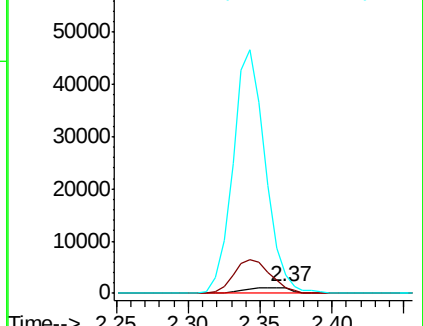
63 304.3 115.1 213.7#



Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.05 (60.75 to 61.75): VX0

Ion 63.00 (62.70 to 63.70): VX0



#14

Carbon disulfide

Concen: 0.072 ug/L

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX018774.D

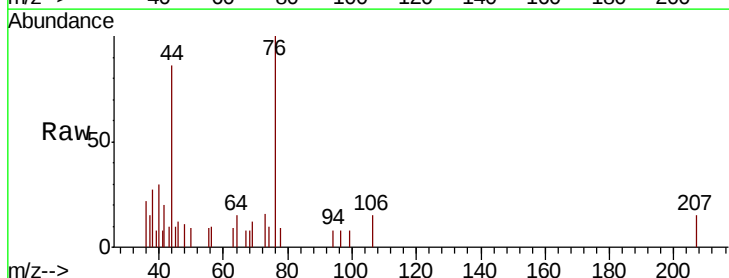
Acq: 05 Oct 2020 18:45

Tgt Ion: 76 Resp: 1666

Ion Ratio Lower Upper

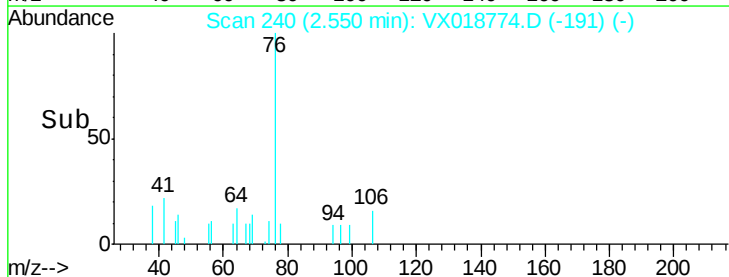
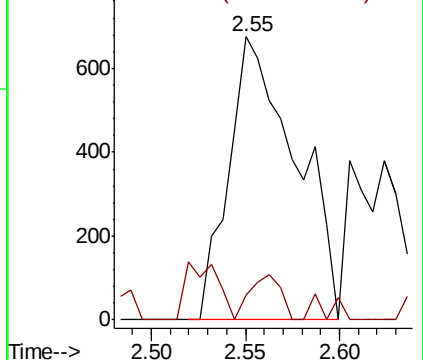
76 100

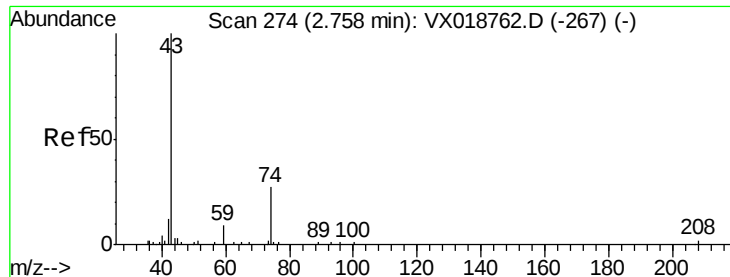
78 8.7 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VX0

Ion 78.00 (77.70 to 78.70): VX0

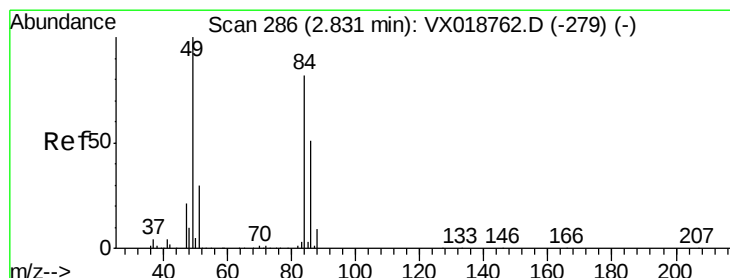
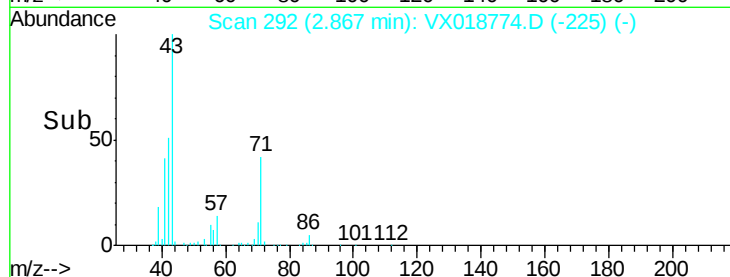
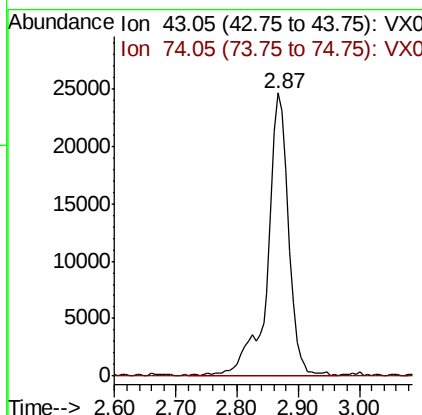
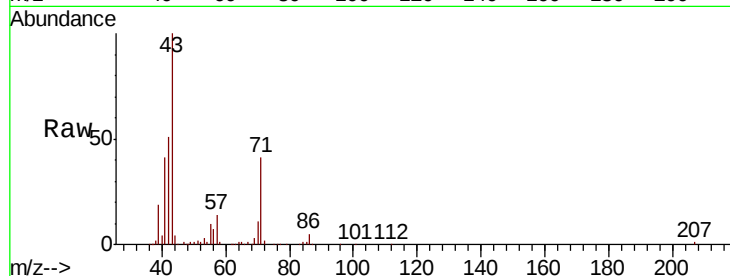




#15
Methyl Acetate
Concen: 19.252 ug/L
RT: 2.87 min Scan# 292
Delta R.T. 0.11 min
Lab File: VX018774.D
Acq: 05 Oct 2020 18:45

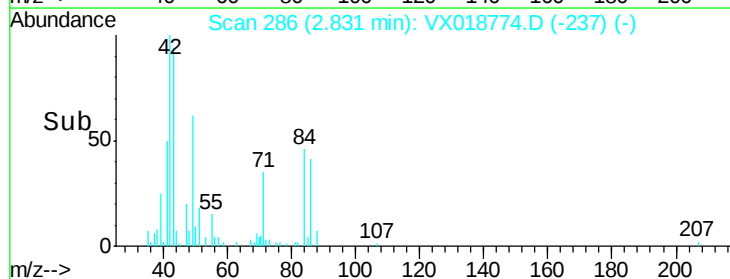
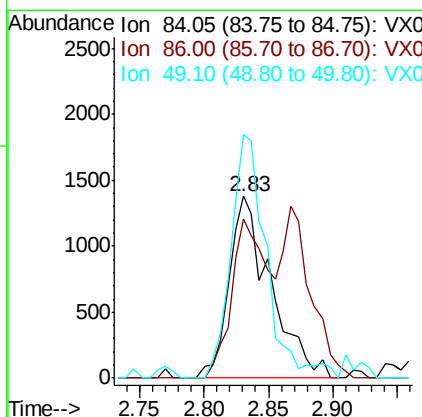
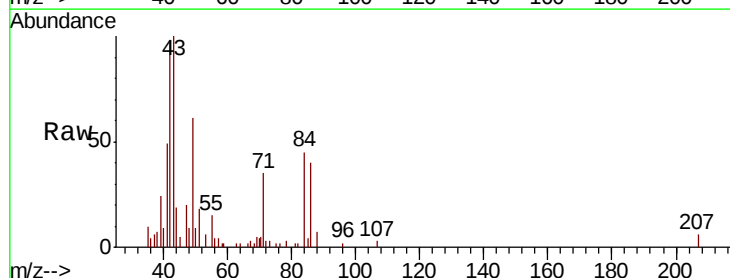
Instrument :
MSVOA_X
ClientSampled :
BG3N5DL

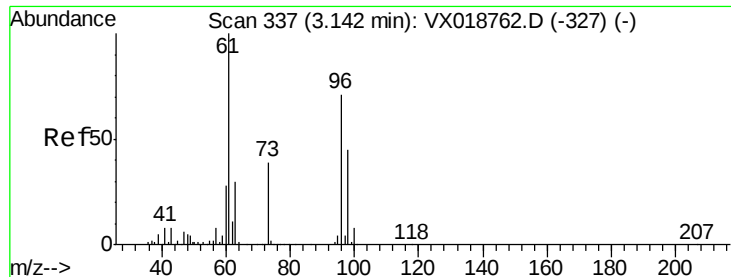
Tot Ion: 43 Resp: 58479
Ion Ratio Lower Upper
43 100
74 0.1 21.9 32.9#



#16
Methylene chloride
Concen: 0.349 ug/L
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX018774.D
Acq: 05 Oct 2020 18:45

Tgt Ion: 84 Resp: 3110
Ion Ratio Lower Upper
84 100
86 87.5 45.6 84.8#
49 133.8 85.8 159.3





#18

trans-1,2-Dichloroethene

Concen: 0.199 ug/L

RT: 3.15 min Scan# 339

Delta R.T. 0.01 min

Lab File: VX018774.D

Acq: 05 Oct 2020 18:45

Instrument :

MSVOA_X

ClientSampleId :

BG3N5DL

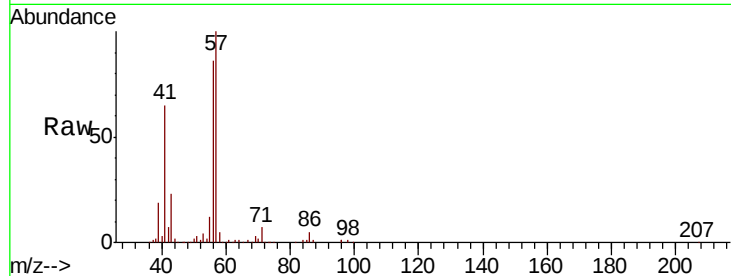
Tot Ion: 96 Resp: 1569

Ion Ratio Lower Upper

96 100

61 66.4 97.6 181.4#

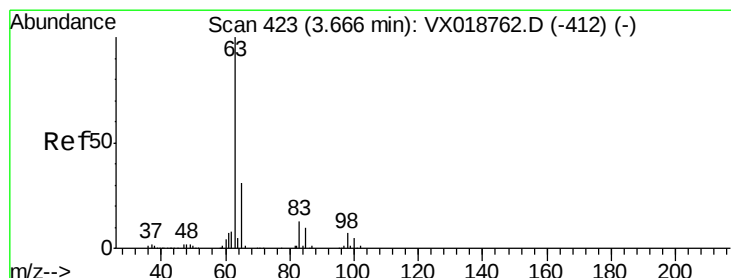
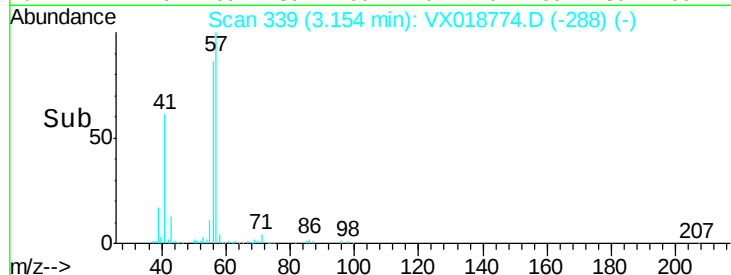
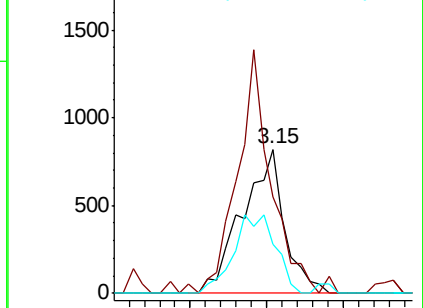
98 33.9 43.1 80.1#



Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.05 (60.75 to 61.75): VX0

Ion 97.95 (97.65 to 98.65): VX0



#19

1,1-Dichloroethane

Concen: 1.419 ug/L

RT: 3.67 min Scan# 423

Delta R.T. 0.00 min

Lab File: VX018774.D

Acq: 05 Oct 2020 18:45

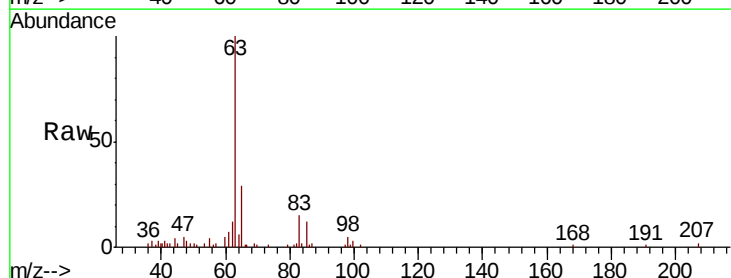
Tgt Ion: 63 Resp: 19883

Ion Ratio Lower Upper

63 100

65 28.8 21.6 40.2

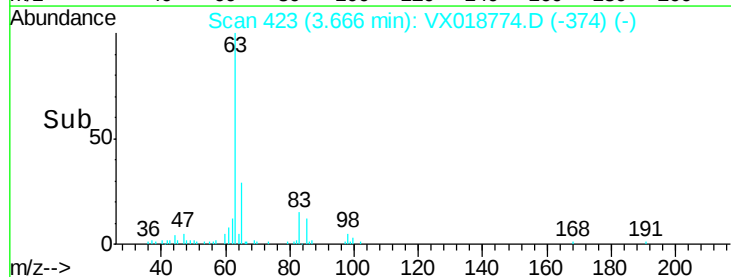
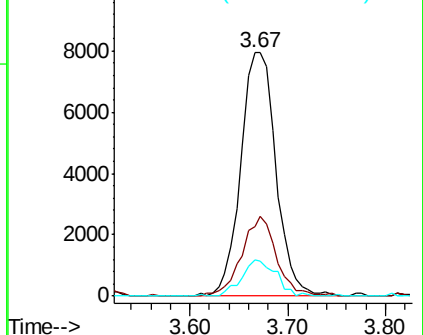
83 14.8 8.7 16.1

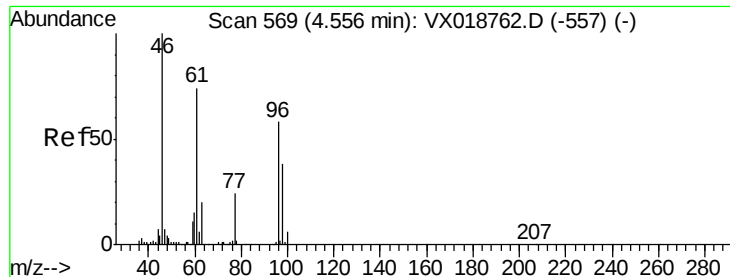


Abundance Ion 63.10 (62.80 to 63.80): VX0

Ion 65.10 (64.80 to 65.80): VX0

Ion 83.05 (82.75 to 83.75): VX0





#22

cis-1,2-Dichloroethene

Concen: 17.165 ug/L

RT: 4.56 min Scan# 570

Delta R.T. 0.01 min

Lab File: VX018774.D

Acq: 05 Oct 2020 18:45

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ClientSampleId :

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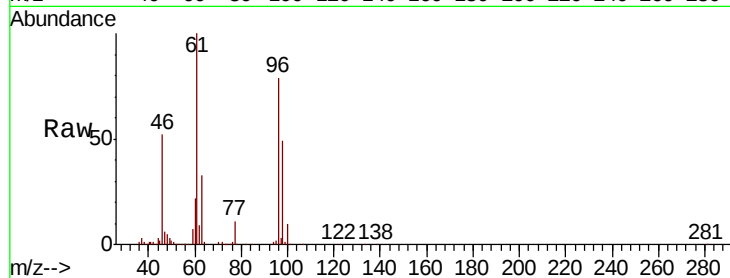
Tot Ion: 96 Resp: 139490

Ion Ratio Lower Upper

96 100

61 126.0 86.2 160.0

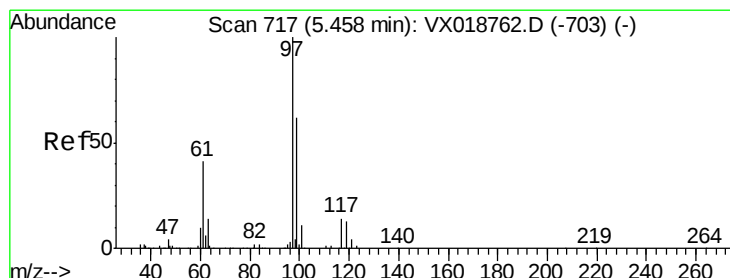
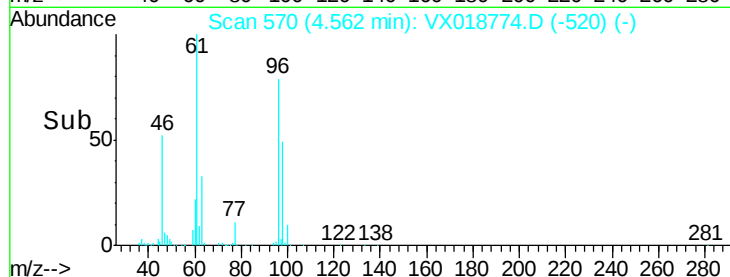
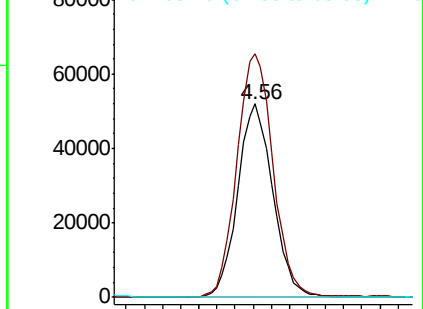
68 0.0 0.3 0.7#



Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.05 (60.75 to 61.75): VX0

Ion 68.15 (67.85 to 68.85): VX0



#29

1,1,1-Trichloroethane

Concen: 14.267 ug/L

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX018774.D

Acq: 05 Oct 2020 18:45

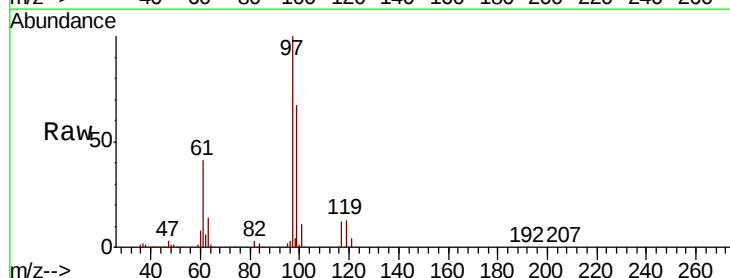
Tgt Ion: 97 Resp: 235994

Ion Ratio Lower Upper

97 100

99 63.9 51.3 76.9

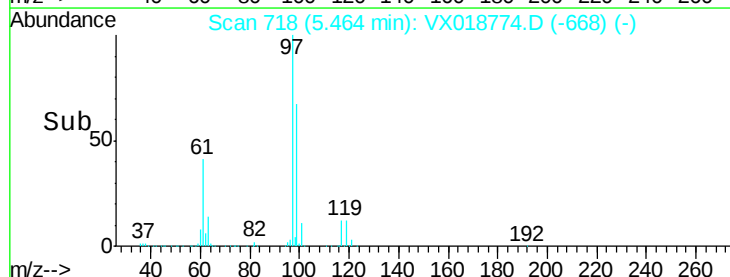
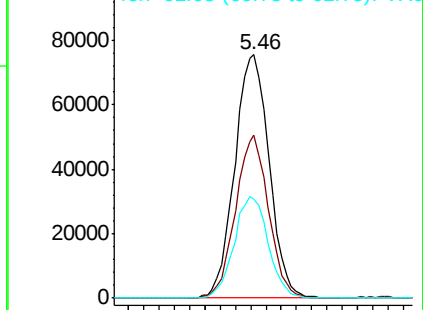
61 41.5 33.3 49.9

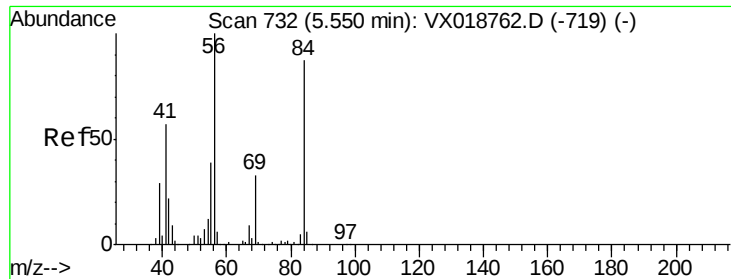


Abundance Ion 96.95 (96.65 to 97.65): VX0

Ion 99.05 (98.75 to 99.75): VX0

Ion 61.05 (60.75 to 61.75): VX0

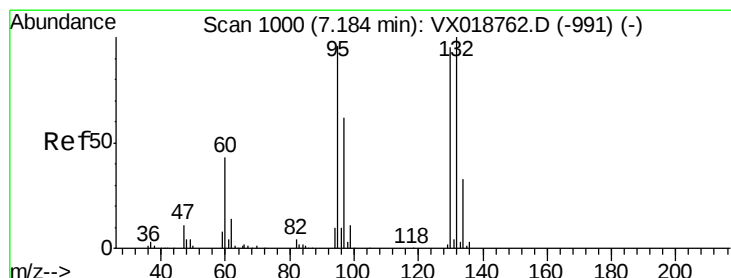
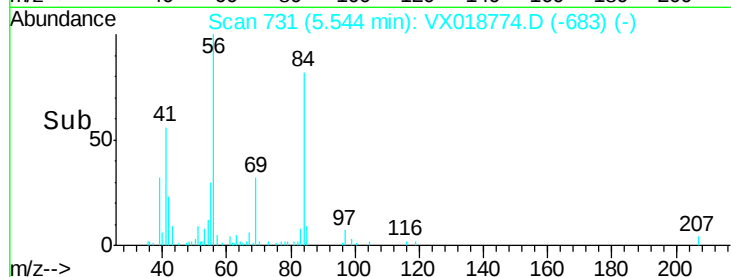
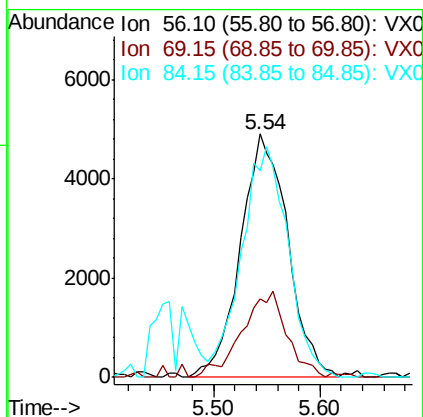
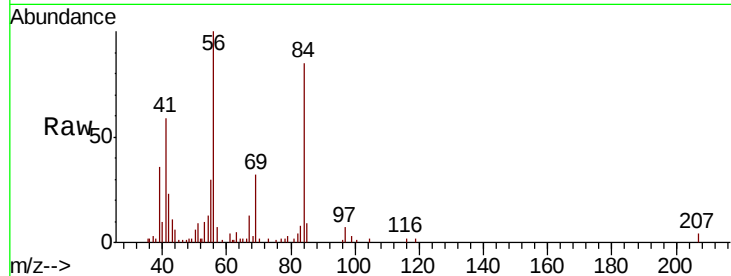




#30
Cvclohexane
Concen: 1.331 ug/L
RT: 5.54 min Scan# 731
Delta R.T. -0.01 min
Lab File: VX018774.D
Acq: 05 Oct 2020 18:45

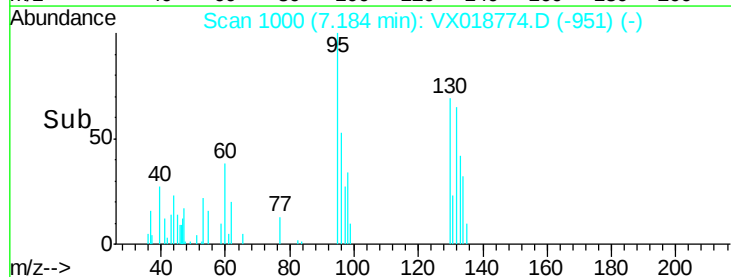
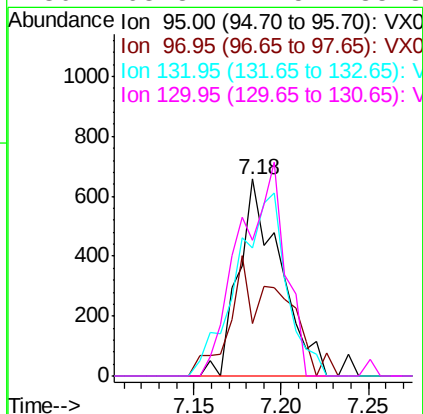
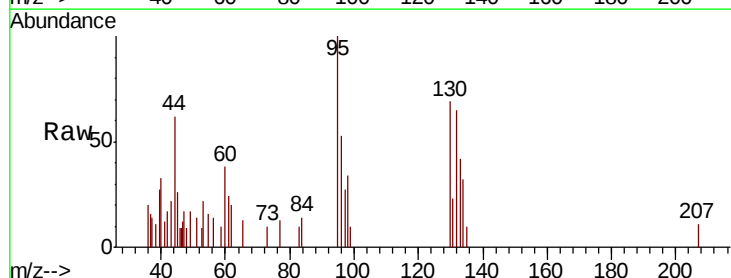
Instrument :
MSVOA_X
ClientSampleId :
BG3N5DL

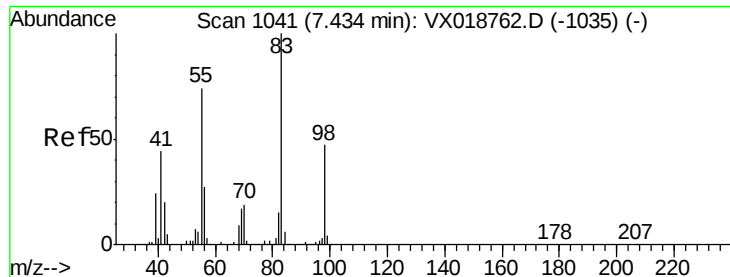
Tot Ion: 56 Resp: 15266
Ion Ratio Lower Upper
56 100
69 33.3 26.0 39.0
84 93.0 73.8 110.6



#34
Trichloroethene
Concen: 0.127 ug/L
RT: 7.18 min Scan# 1000
Delta R.T. 0.00 min
Lab File: VX018774.D
Acq: 05 Oct 2020 18:45

Tgt Ion: 95 Resp: 1096
Ion Ratio Lower Upper
95 100
97 26.7 45.3 84.1#
132 65.0 68.6 127.4#
130 68.8 74.5 138.3#

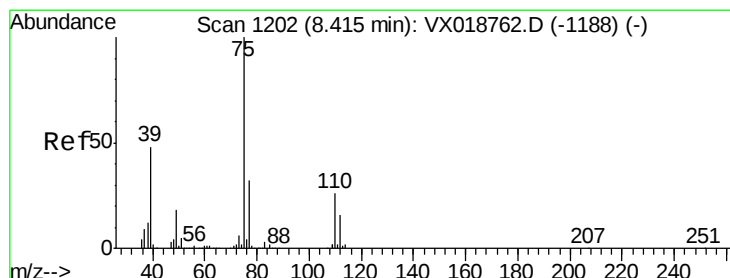
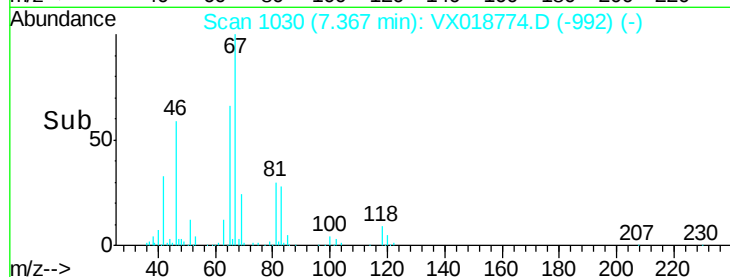
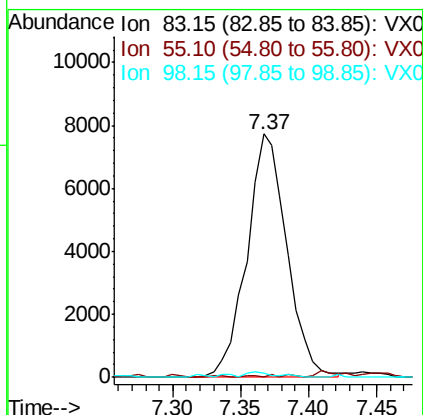
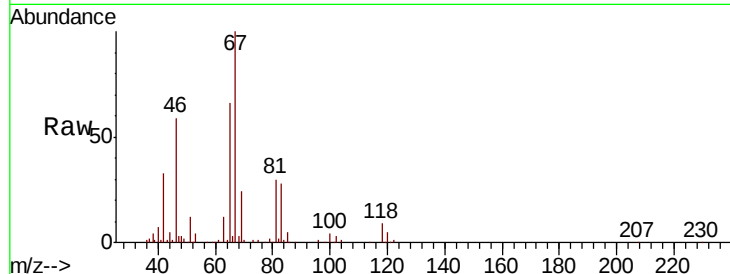




#35
Methvlcvclohexane
Concen: 1.296 ug/L
RT: 7.37 min Scan# 1030
Delta R.T. -0.07 min
Lab File: VX018774.D
Acq: 05 Oct 2020 18:45

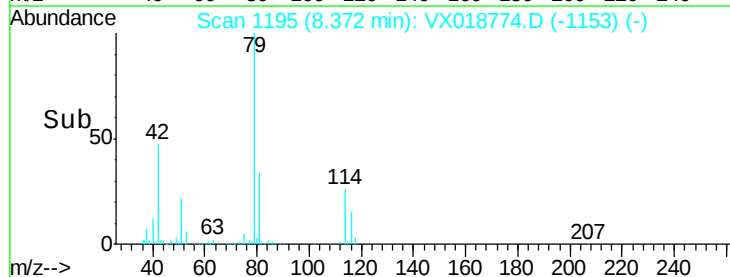
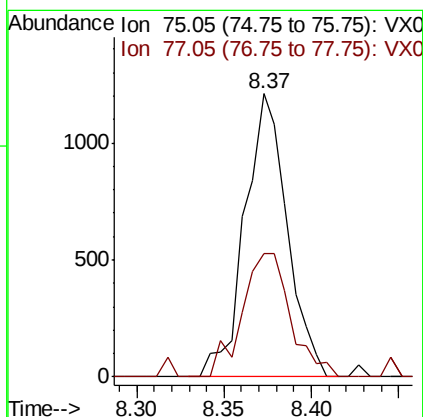
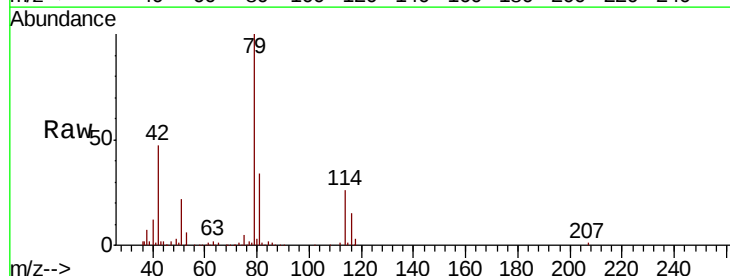
Instrument :
MSVOA_X
ClientSampleId :
BG3N5DL

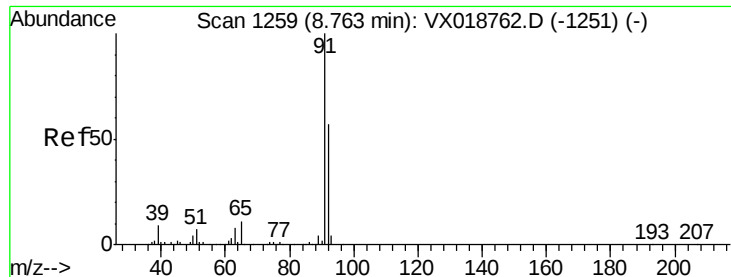
Tot Ion: 83 Resp: 15879
Ion Ratio Lower Upper
83 100
55 0.2 60.3 90.5#
98 2.1 39.4 59.0#



#39
cis-1,3-Dichloropropene
Concen: 0.174 ug/L
RT: 8.37 min Scan# 1195
Delta R.T. -0.04 min
Lab File: VX018774.D
Acq: 05 Oct 2020 18:45

Tgt Ion: 75 Resp: 2039
Ion Ratio Lower Upper
75 100
77 43.7 22.5 41.7#





#42

Toluene

Concen: 49.140 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VX018774.D

Acq: 05 Oct 2020 18:45

Instrument :

MSVOA_X

ClientSampleId :

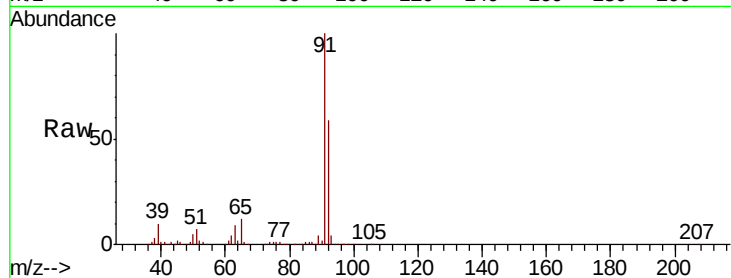
BG3N5DL

Tot Ion: 91 Resp: 1574513

Ion Ratio Lower Upper

91 100

92 59.4 40.3 74.9



Abundance Ion 91.15 (90.85 to 91.85): VX018762.D (-1251) (-)

Ion 92.15 (91.85 to 92.85): VX018762.D (-1251) (-)

8.76

1000000

800000

600000

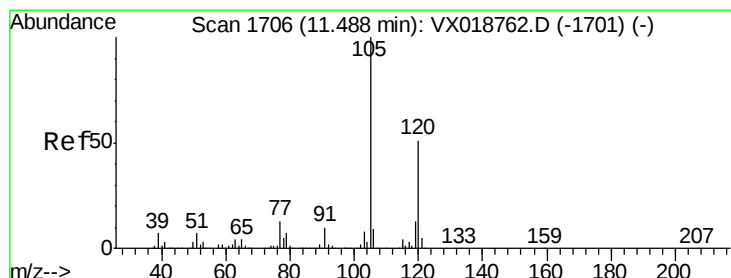
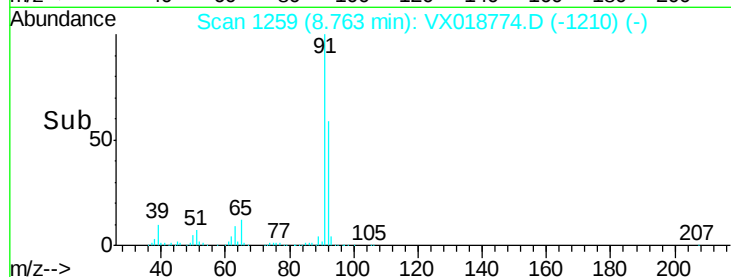
400000

200000

0

8.70 8.80 8.90

Time-->



#43

1,3,5-Trimethylbenzene

Concen: 9.197 ug/L

RT: 11.49 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VX018774.D

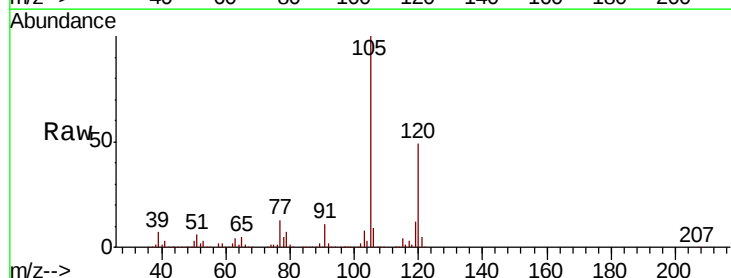
Acq: 05 Oct 2020 18:45

Tgt Ion:105 Resp: 278902

Ion Ratio Lower Upper

105 100

120 48.4 37.7 56.5



Abundance Ion 105.00 (104.70 to 105.70): VX018762.D (-1701) (-)

Ion 120.00 (119.70 to 120.70): VX018762.D (-1701) (-)

11.49

600000

500000

400000

300000

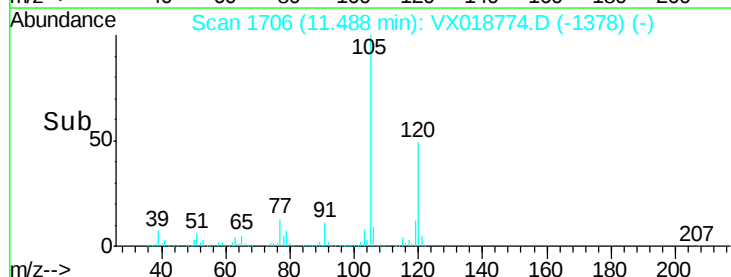
200000

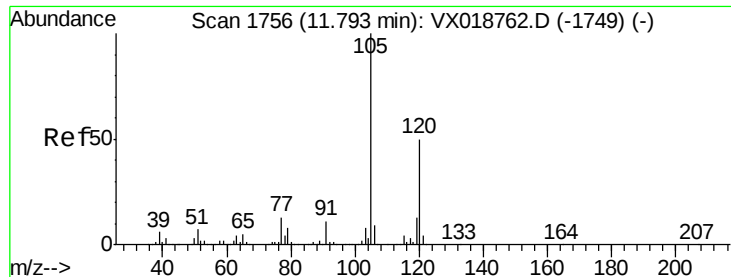
100000

0

11.50 11.60

Time-->





#44

1,2,4-Trimethylbenzene

Concen: 31.209 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX018774.D

Acq: 05 Oct 2020 18:45

Instrument :

MSVOA_X

ClientSampled :

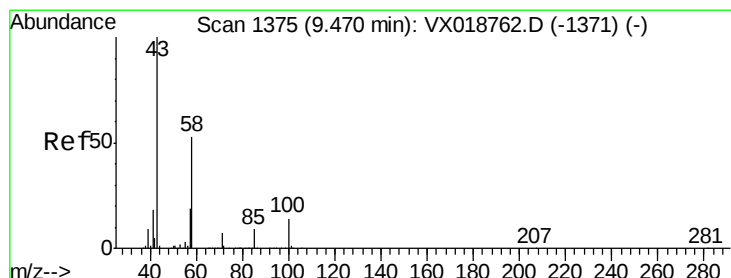
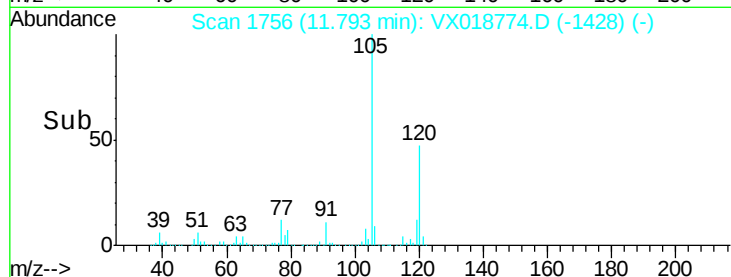
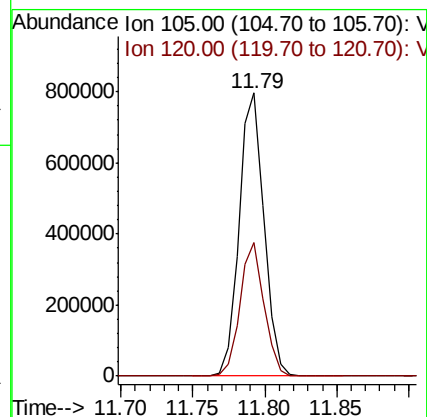
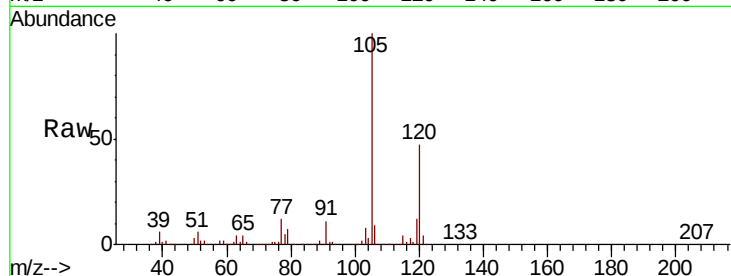
BG3N5DL

Tot Ion:105 Resp: 960635

Ion Ratio Lower Upper

105 100

120 45.5 35.1 52.7



#50

2-Hexanone

Concen: 4.761 ug/L

RT: 9.43 min Scan# 1368

Delta R.T. -0.04 min

Lab File: VX018774.D

Acq: 05 Oct 2020 18:45

Tgt Ion: 43 Resp: 14696

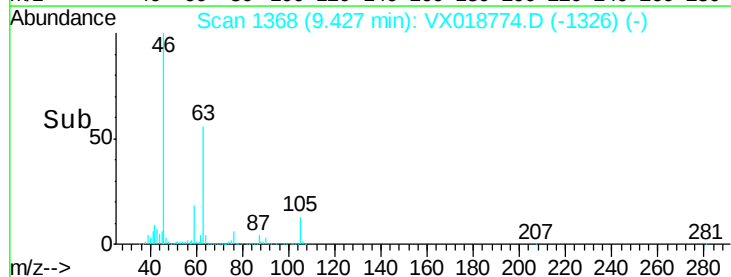
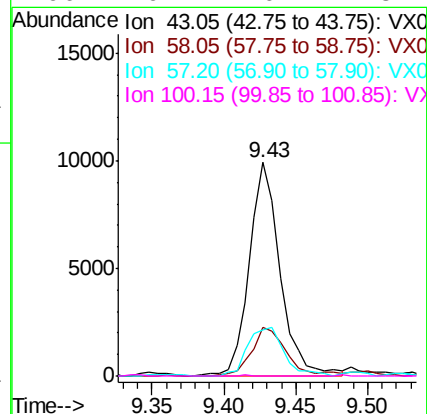
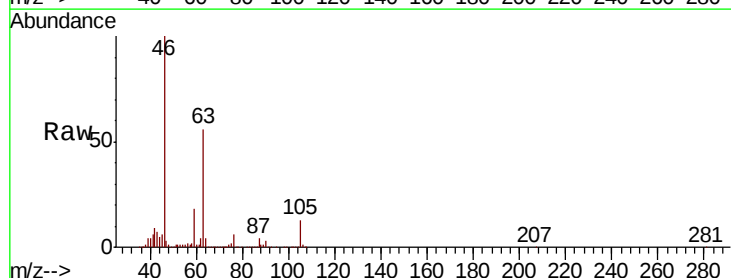
Ion Ratio Lower Upper

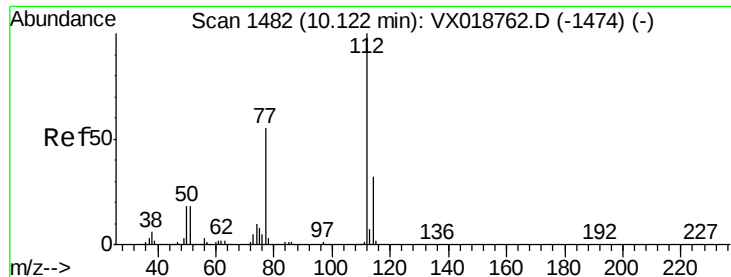
43 100

58 25.0 41.0 61.4#

57 27.0 15.9 23.9#

100 0.1 10.1 15.1#





#53

Chlorobenzene

Concen: 0.188 ug/L

RT: 10.12 min Scan# 1481

Delta R.T. -0.01 min

Lab File: VX018774.D

Acq: 05 Oct 2020 18:45

Instrument :

MSVOA_X

ClientSampleId :

BG3N5DL

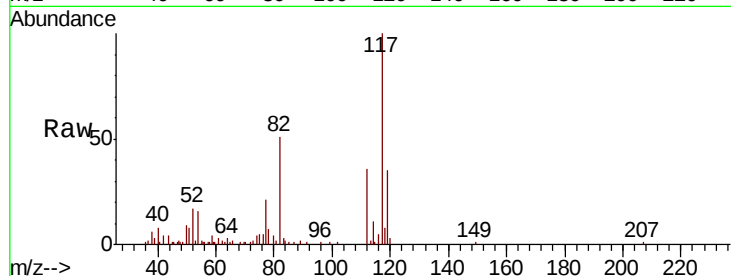
Tot Ion:112 Resp: 4128

Ion Ratio Lower Upper

112 100

114 31.7 21.3 39.5

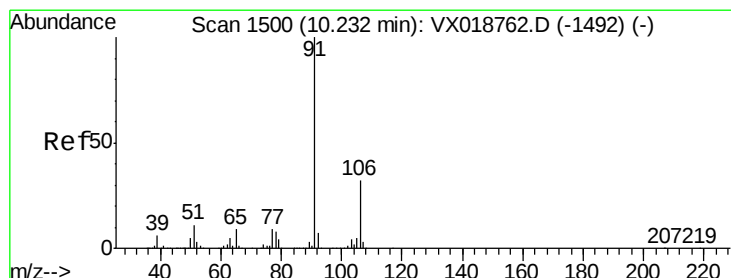
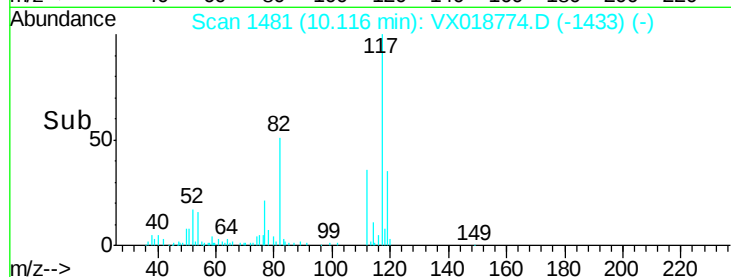
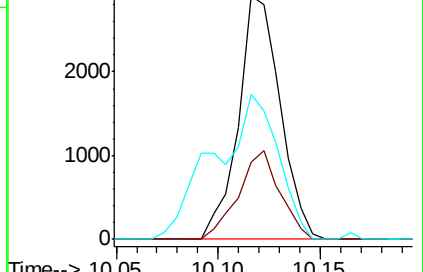
77 59.5 42.4 63.6



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): V



#54

Ethylbenzene

Concen: 4.191 ug/L

RT: 10.24 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VX018774.D

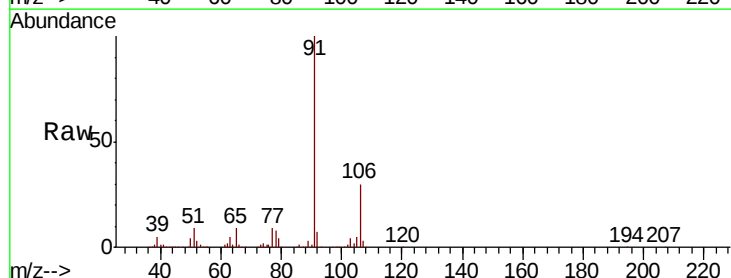
Acq: 05 Oct 2020 18:45

Tgt Ion: 91 Resp: 150544

Ion Ratio Lower Upper

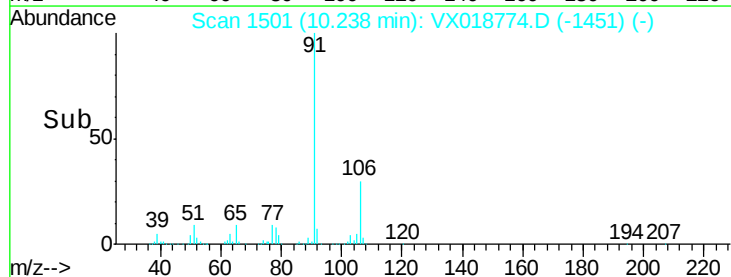
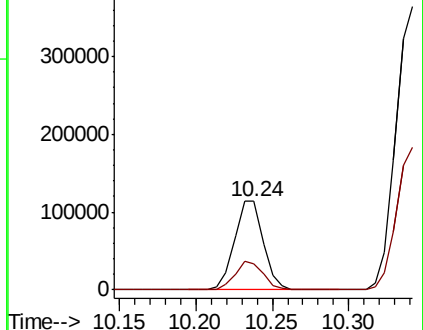
91 100

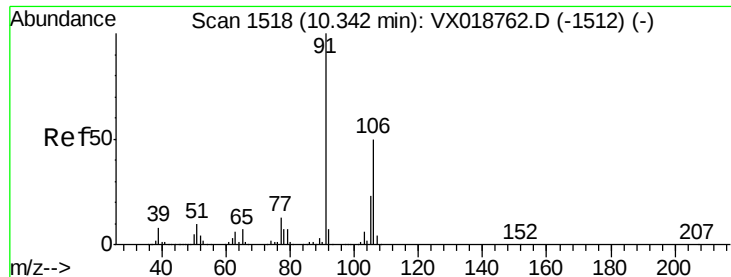
106 30.0 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 106.15 (105.85 to 106.85): V





#55

m,p-xylene

Concen: 16.826 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX018774.D

Acq: 05 Oct 2020 18:45

Instrument :

MSVOA_X

ClientSampled :

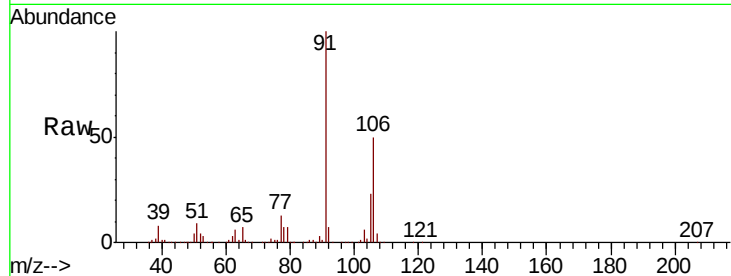
BG3N5DL

Tot Ion:106 Resp: 235740

Ion Ratio Lower Upper

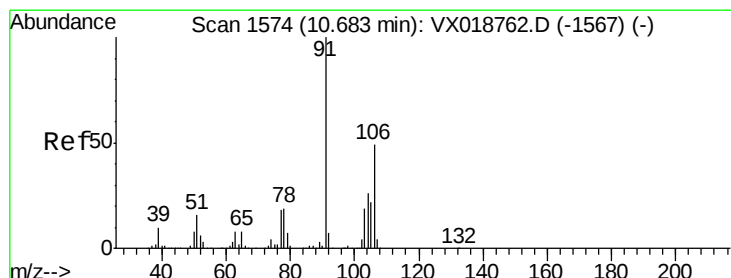
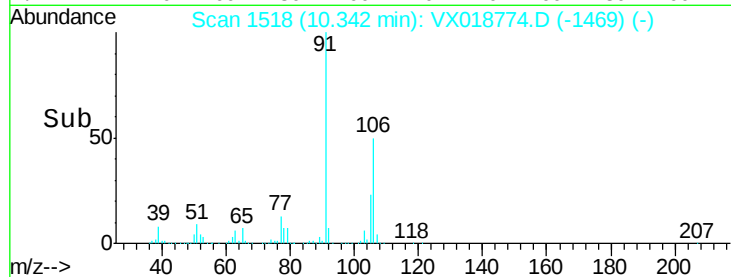
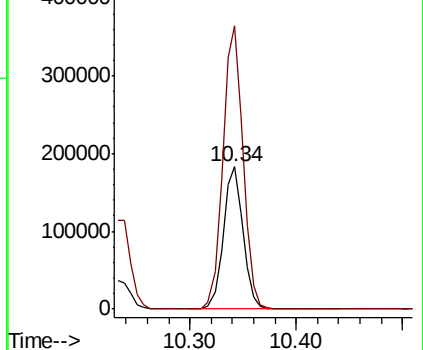
106 100

91 199.1 143.4 266.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0



#56

o-xylene

Concen: 8.575 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VX018774.D

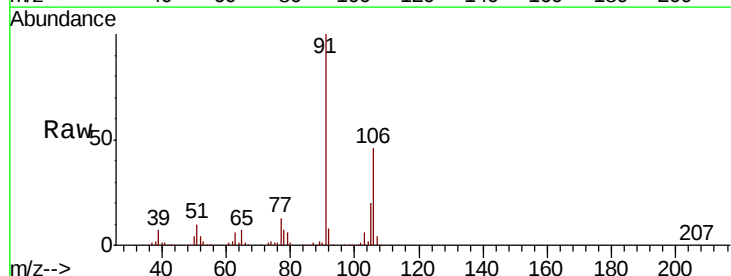
Acq: 05 Oct 2020 18:45

Tgt Ion:106 Resp: 111024

Ion Ratio Lower Upper

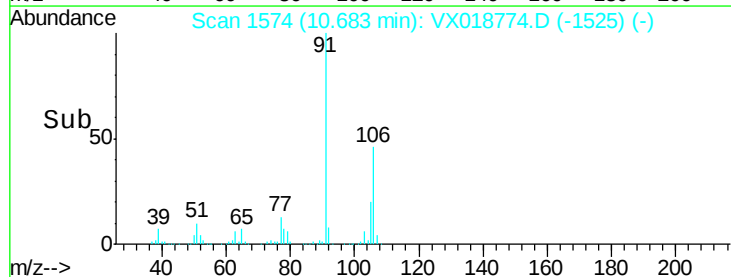
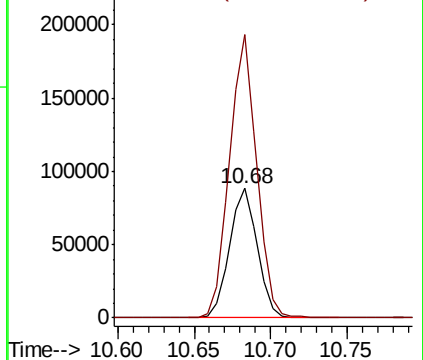
106 100

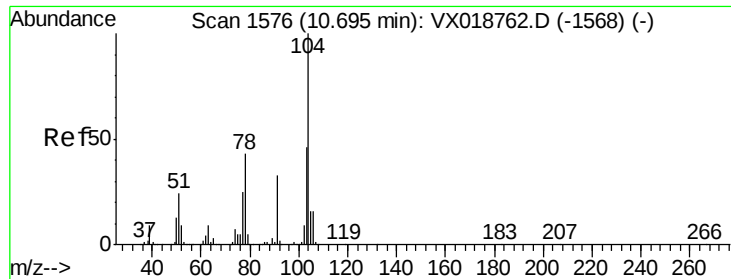
91 218.6 153.4 284.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0

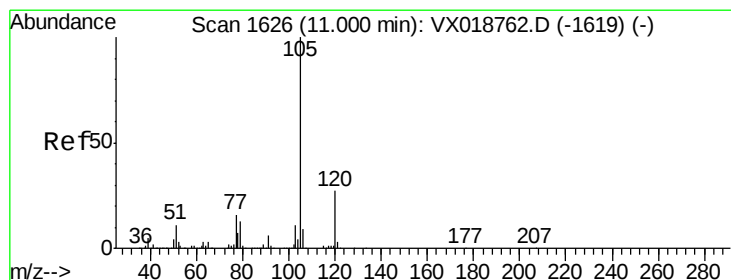
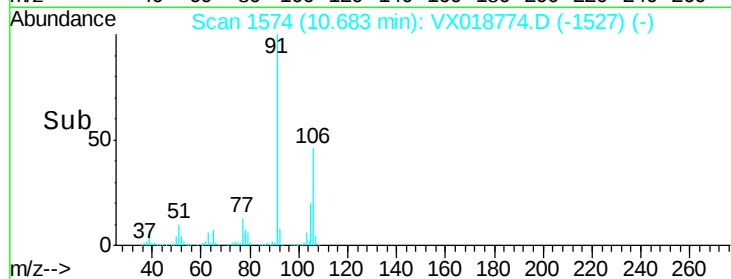
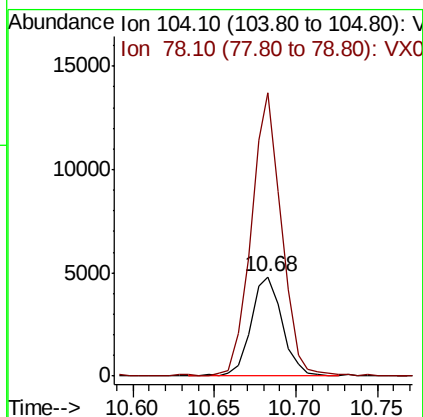
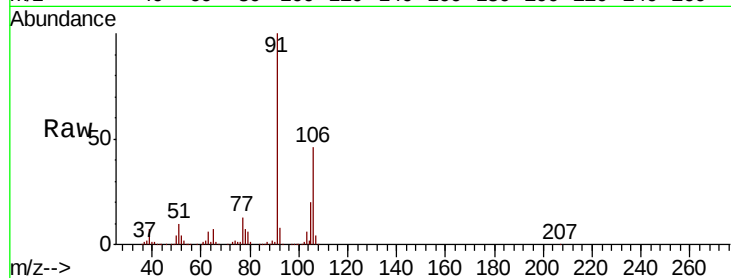




#57
Stvrene
Concen: 0.292 ug/L
RT: 10.68 min Scan# 1574
Delta R.T. -0.01 min
Lab File: VX018774.D
Acq: 05 Oct 2020 18:45

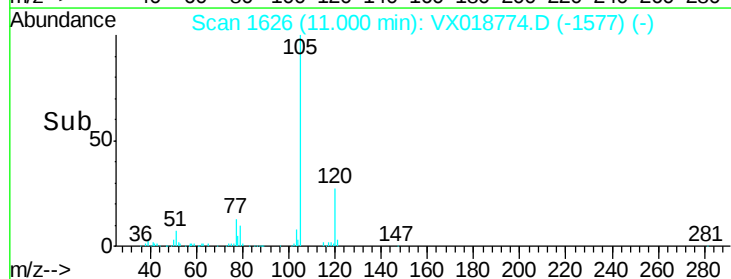
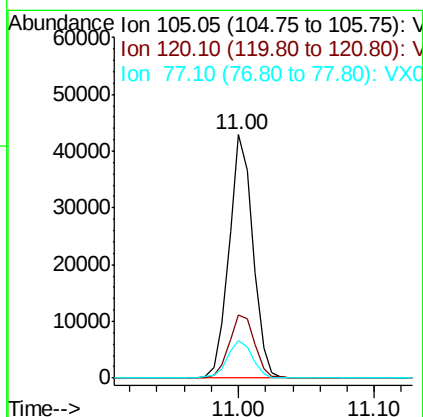
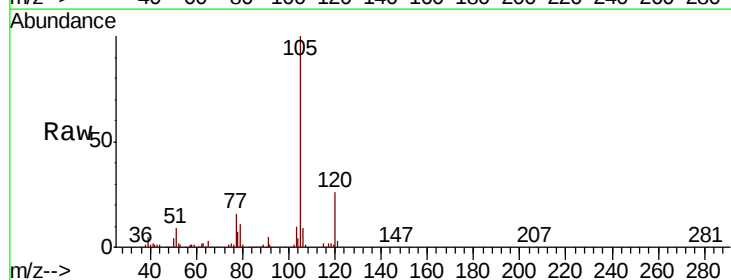
Instrument :
MSVOA_X
ClientSampleId :
BG3N5DL

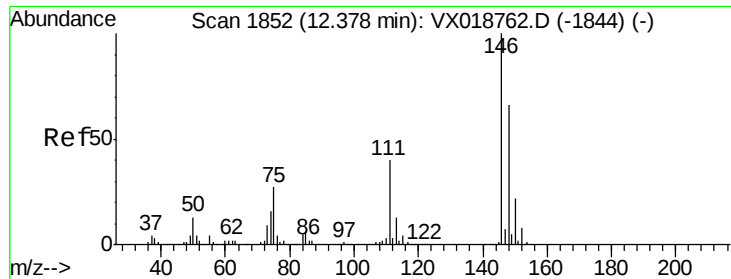
Tot Ion:104 Resp: 6441
Ion Ratio Lower Upper
104 100
78 285.3 37.1 68.9#



#58
Isopropylbenzene
Concen: 1.441 ug/L
RT: 11.00 min Scan# 1626
Delta R.T. 0.00 min
Lab File: VX018774.D
Acq: 05 Oct 2020 18:45

Tgt Ion:105 Resp: 52243
Ion Ratio Lower Upper
105 100
120 27.6 20.2 30.2
77 16.2 13.3 19.9

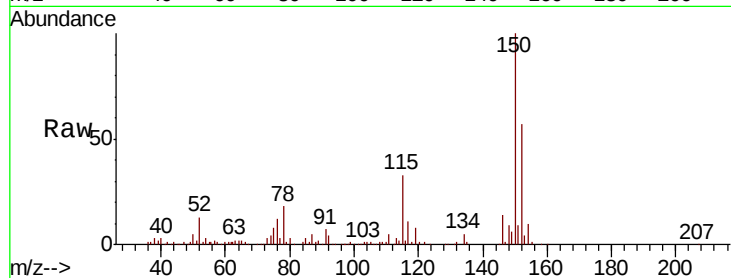




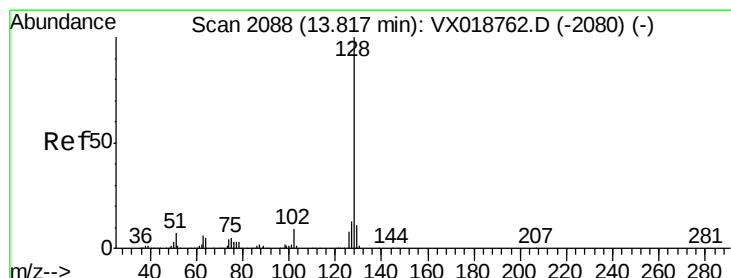
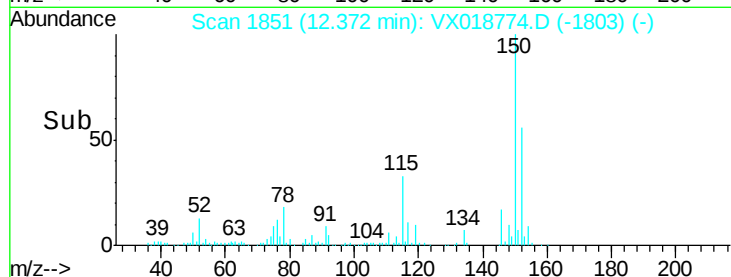
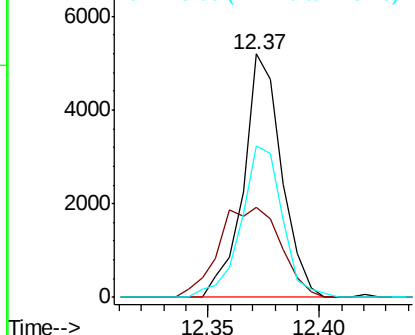
#66
 1,2-Dichlorobenzene
 Concen: 0.376 ug/L
 RT: 12.37 min Scan# 1851
 Delta R.T. -0.01 min
 Lab File: VX018774.D
 Acq: 05 Oct 2020 18:45

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3N5DL

Tot Ion:146 Resp: 6191
 Ion Ratio Lower Upper
 146 100
 111 37.1 31.7 47.5
 148 62.2 49.0 73.6

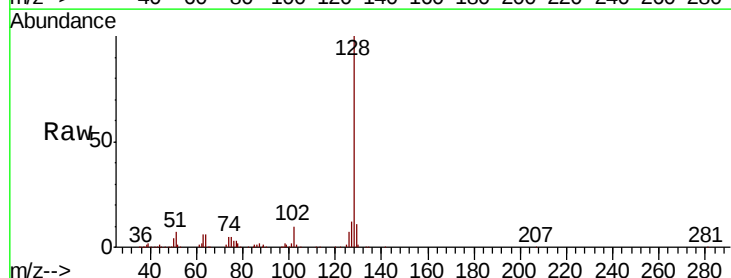


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V



#70
 Naphthalene
 Concen: 5.120 ug/L
 RT: 13.82 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VX018774.D
 Acq: 05 Oct 2020 18:45

Tgt Ion:128 Resp: 94283
 Ion Ratio Lower Upper
 128 100
 129 10.5 9.0 13.4
 127 12.1 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V

