

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081420\
 Data File : VX017901.D
 Acq On : 14 Aug 2020 15:43
 Operator : JC/SP
 Sample : L3697-06
 Misc : 25.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG0N3

Quant Time: Aug 17 01:31:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR080720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Aug 17 01:26:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	284459	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	264909	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	128040	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	96319	4.90	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.00%
7) Chloroethane-d5	1.69	69	82521	5.29	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	105.80%
11) 1,1-Dichloroethene-d2	2.34	63	147053	3.63	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	72.60%
20) 2-Butanone-d5	4.53	46	263207	50.42	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.84%
24) Chloroform-d	5.15	84	175369	4.39	ug/L	0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.80%
26) 1,2-Dichloroethane-d4	6.03	65	102659	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.80%
32) Benzene-d6	6.05	84	350336	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.40%
36) 1,2-Dichloropropane-d6	7.37	67	112107	4.99	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.80%
41) Toluene-d8	8.70	98	311269	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.00%
45) trans-1,3-Dichloropropene-	8.99	79	44765	4.60	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.00%
48) 2-Hexanone-d5	9.43	63	212916	52.62	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.24%
59) 1,1,2,2-Tetrachloroethane-	11.23	84	82774	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.80%
65) 1,2-Dichlorobenzene-d4	12.36	152	127693	5.18	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.60%

Target Compounds

					Qvalue
3) Chloromethane	1.31	50	3822	0.142 ug/L	83
8) Chloroethane	1.72	64	47078	3.142 ug/L	95
13) Acetone	2.42	43	4085	1.071 ug/L	73
17) Methyl tert-butyl Ether	3.17	73	15745	0.270 ug/L #	83
19) 1,1-Dichloroethane	3.67	63	53145	1.204 ug/L	97
22) cis-1,2-Dichloroethene	4.56	96	5912	0.228 ug/L #	76
25) Chloroform	5.18	83	26974	0.568 ug/L	99
29) 1,1,1-Trichloroethane	5.47	97	5627	0.129 ug/L #	87
33) Benzene	6.11	78	96195	1.026 ug/L	100
35) Methylcyclohexane	7.37	83	27882	0.724 ug/L #	20
37) 1,2-Dichloropropane	7.37	63	12970	0.550 ug/L #	91
39) cis-1,3-Dichloropropene	8.38	75	3678	0.101 ug/L	84
42) Toluene	8.77	91	134097	1.317 ug/L	97
44) 1,2,4-Trimethylbenzene	11.79	105	5963	0.063 ug/L	93
49) Tetrachloroethene	9.32	164	4118	0.188 ug/L	88
50) 2-Hexanone	9.43	43	27044	2.457 ug/L #	67
53) Chlorobenzene	10.12	112	19527	0.295 ug/L	94

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Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Aug 17 01:26:51 2020
Response via : Initial Calibration

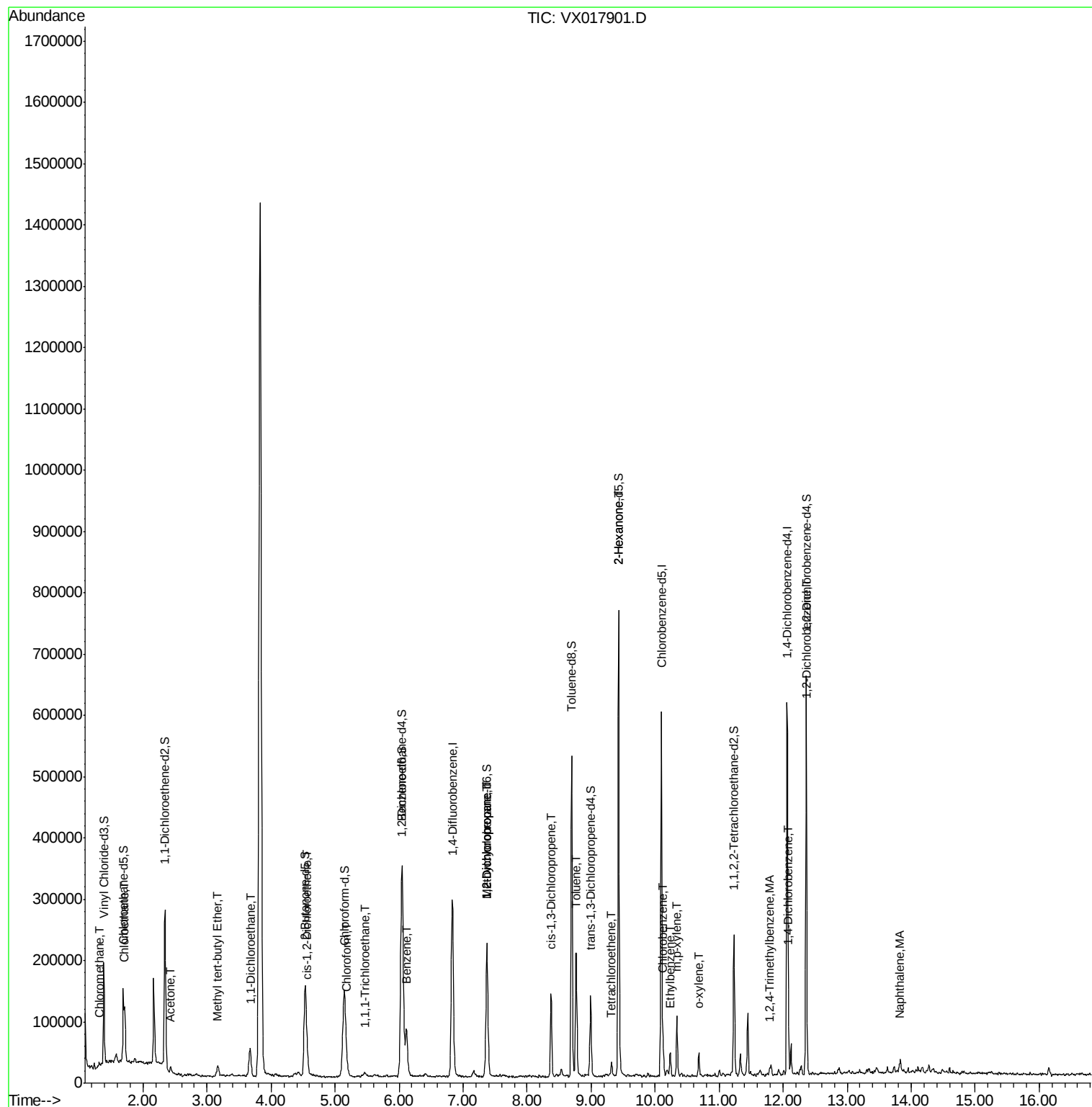
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Ethylbenzene	10.24	91	21356	0.192	ug/L	99
55) m,p-xylene	10.34	106	21998	0.519	ug/L	98
56) o-xylene	10.68	106	7299	0.177	ug/L	96
64) 1,4-Dichlorobenzene	12.09	146	19401	0.391	ug/L	92
66) 1,2-Dichlorobenzene	12.37	146	2423	0.052	ug/L #	68
70) Naphthalene	13.82	128	4304	0.072	ug/L #	70

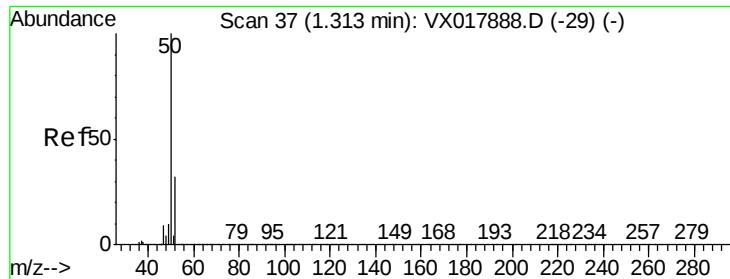
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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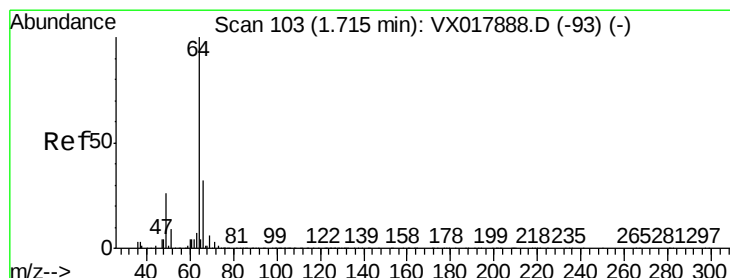
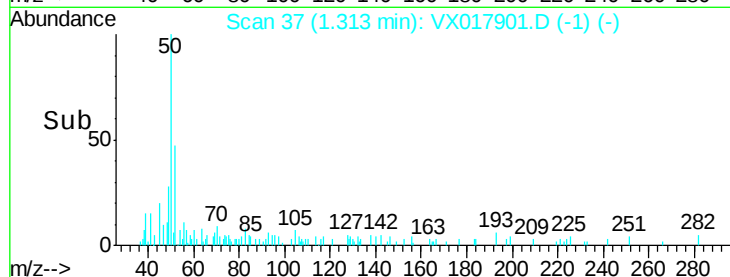
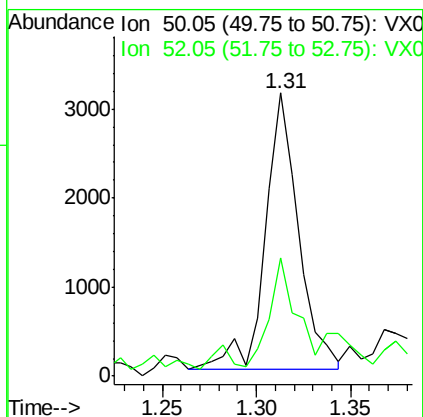
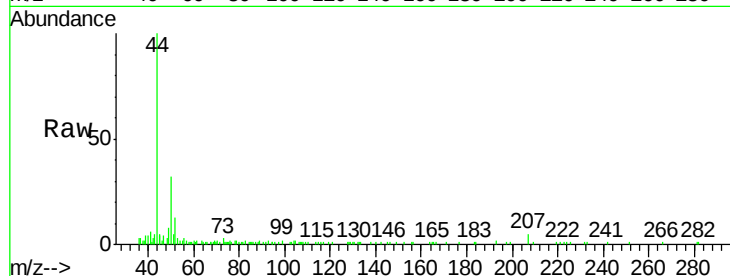




#3
Chloromethane
Concen: 0.142 ug/L
RT: 1.31 min Scan# 37
Delta R.T. 0.00 min
Lab File: VX017901.D
Acq: 14 Aug 2020 15:43

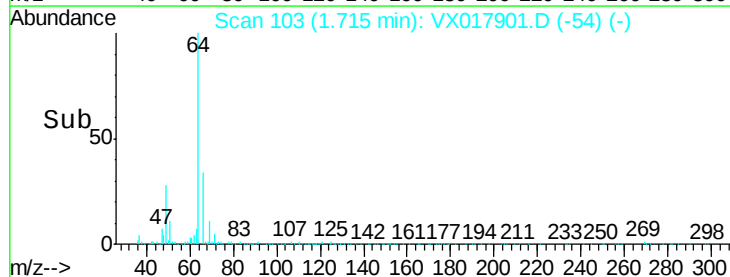
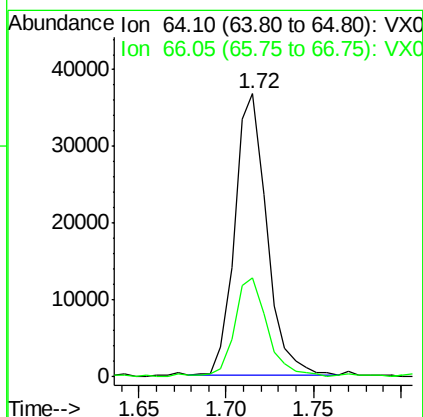
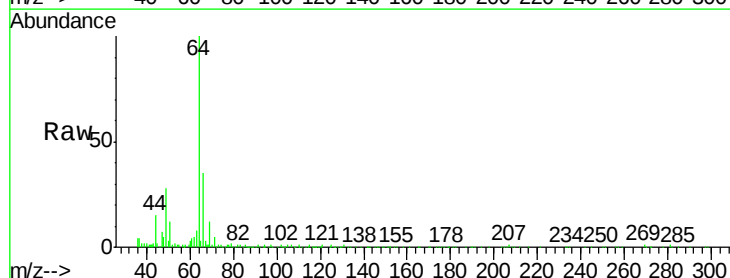
Instrument :
MSVOA_X
ClientSampleId :
BG0N3

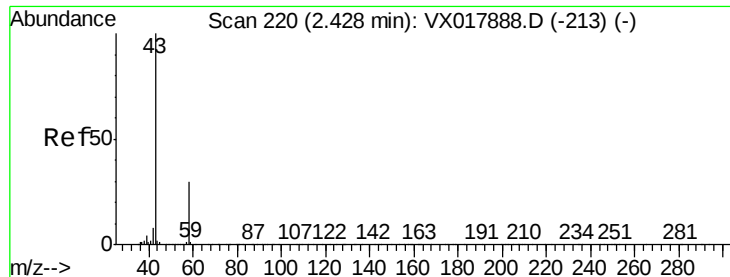
Tgt Ion: 50 Resp: 3822
Ion Ratio Lower Upper
50 100
52 41.6 22.5 41.9



#8
Chloroethane
Concen: 3.142 ug/L
RT: 1.72 min Scan# 103
Delta R.T. 0.00 min
Lab File: VX017901.D
Acq: 14 Aug 2020 15:43

Tgt Ion: 64 Resp: 47078
Ion Ratio Lower Upper
64 100
66 35.2 22.6 42.0





#13

Acetone

Concen: 1.071 ug/L

RT: 2.42 min Scan# 219

Delta R.T. -0.01 min

Lab File: VX017901.D

Acq: 14 Aug 2020 15:43

Instrument :

MSVOA_X

ClientSampled :

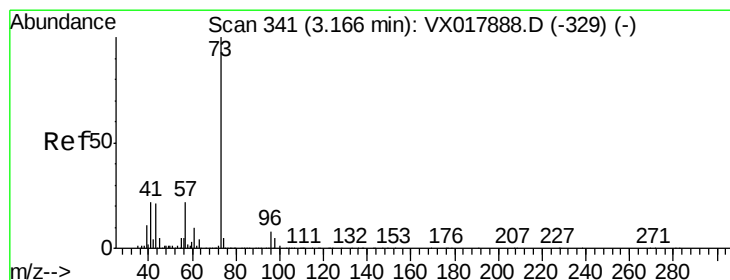
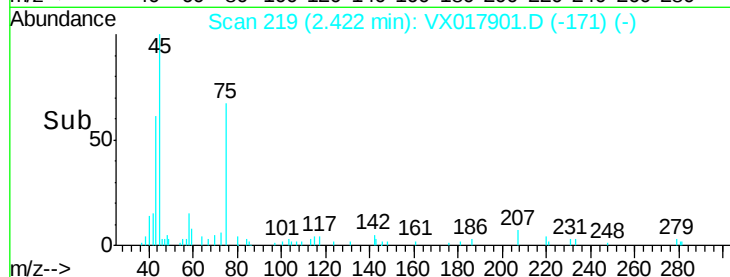
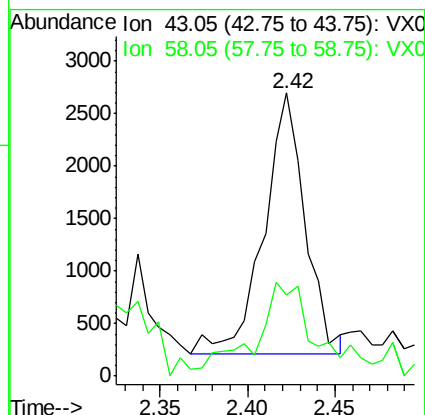
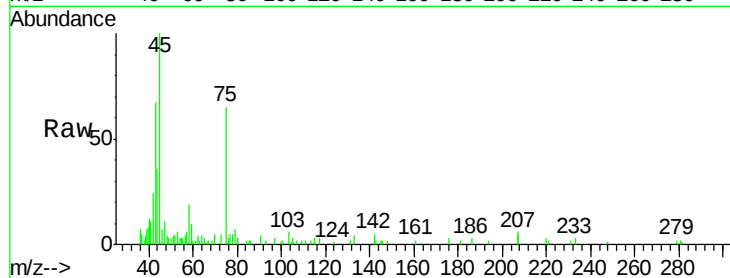
BG0N3

Tgt Ion: 43 Resp: 4085

Ion Ratio Lower Upper

43 100

58 45.2 0.0 60.8



#17

Methyl tert-butyl Ether

Concen: 0.270 ug/L

RT: 3.17 min Scan# 342

Delta R.T. 0.01 min

Lab File: VX017901.D

Acq: 14 Aug 2020 15:43

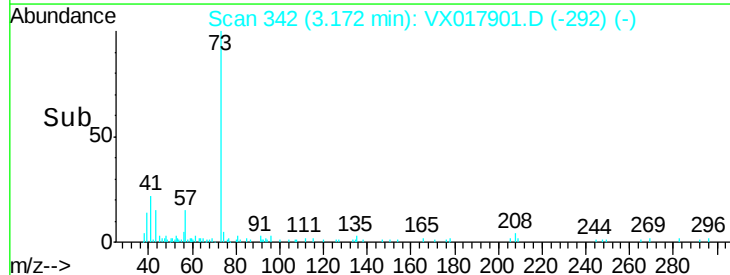
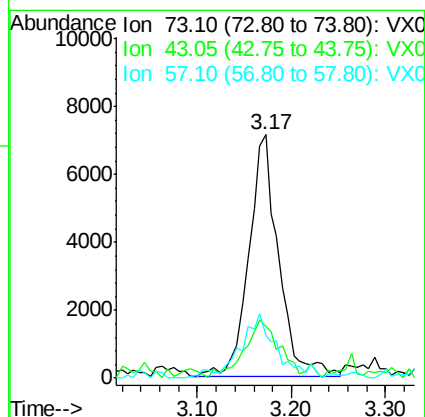
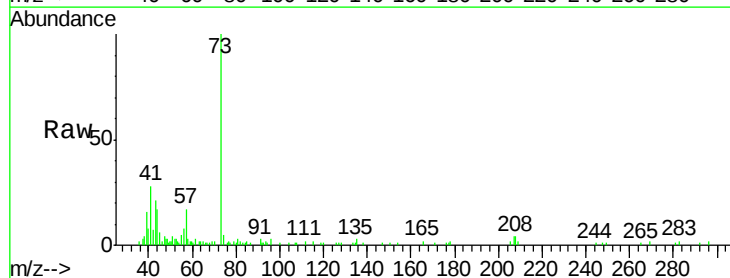
Tgt Ion: 73 Resp: 15745

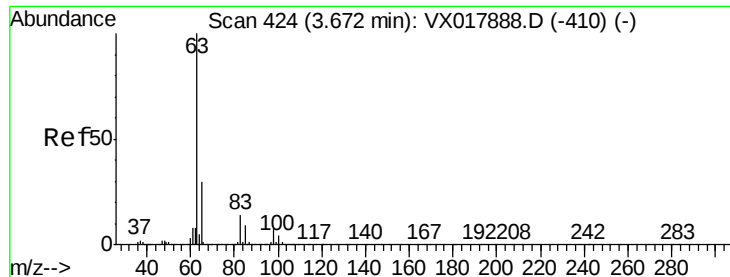
Ion Ratio Lower Upper

73 100

43 28.1 17.7 26.5#

57 31.0 17.0 25.6#





#19

1,1-Dichloroethane

Concen: 1.204 ug/L

RT: 3.67 min Scan# 424

Delta R.T. 0.00 min

Lab File: VX017901.D

Acq: 14 Aug 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

BG0N3

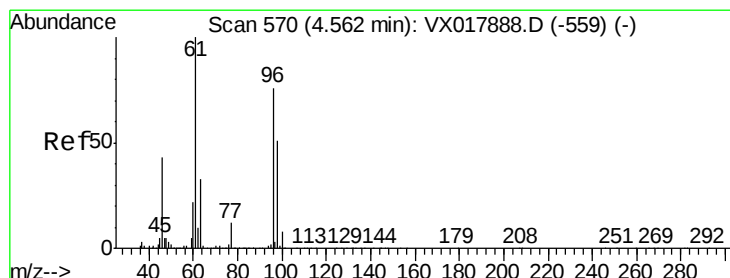
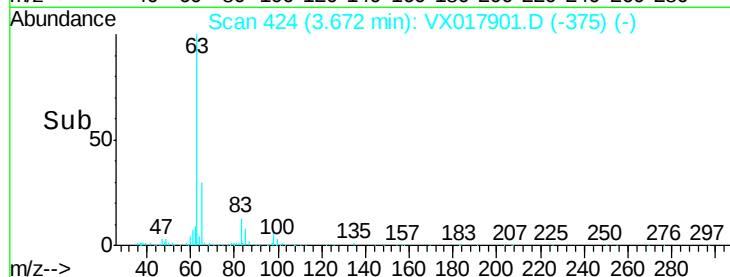
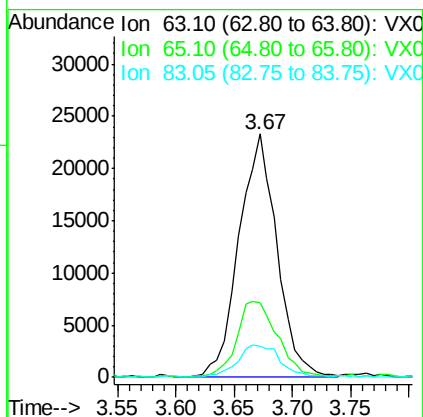
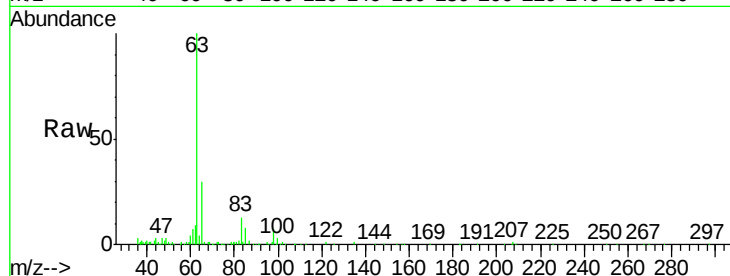
Tgt Ion: 63 Resp: 53145

Ion Ratio Lower Upper

63 100

65 30.5 22.6 42.0

83 13.0 9.5 17.7



#22

cis-1,2-Dichloroethene

Concen: 0.228 ug/L

RT: 4.56 min Scan# 570

Delta R.T. 0.00 min

Lab File: VX017901.D

Acq: 14 Aug 2020 15:43

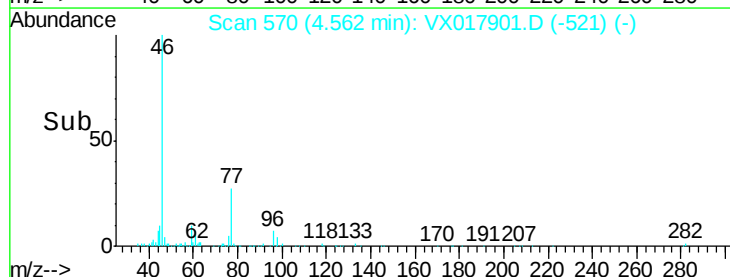
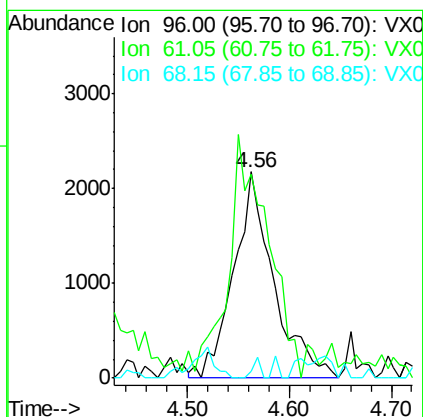
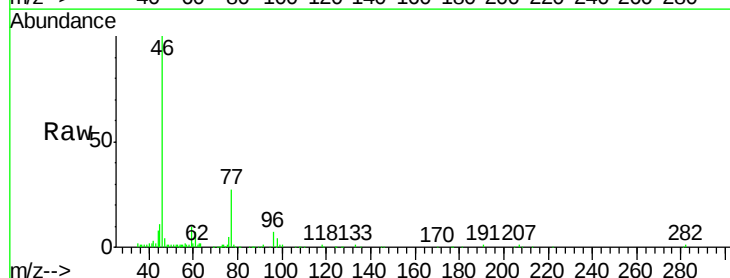
Tgt Ion: 96 Resp: 5912

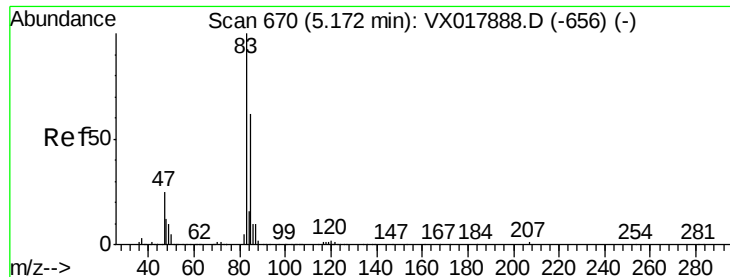
Ion Ratio Lower Upper

96 100

61 99.1 88.8 165.0

68 3.5 0.2 0.4#





#25

Chloroform

Concen: 0.568 ug/L

RT: 5.18 min Scan# 671

Delta R.T. 0.01 min

Lab File: VX017901.D

Acq: 14 Aug 2020 15:43

Instrument :

MSVOA_X

ClientSampled :

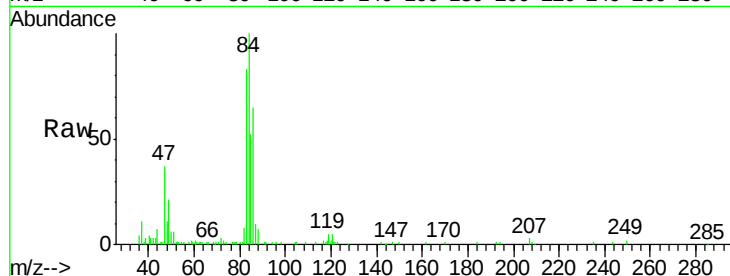
BG0N3

Tgt Ion: 83 Resp: 26974

Ion Ratio Lower Upper

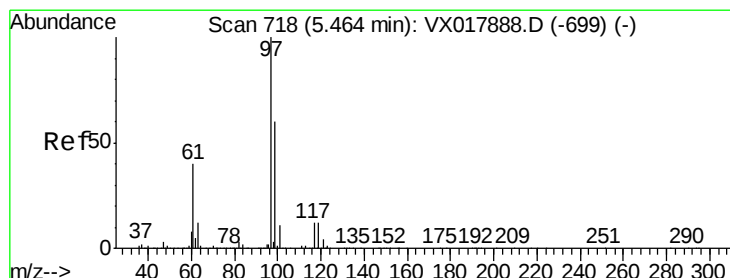
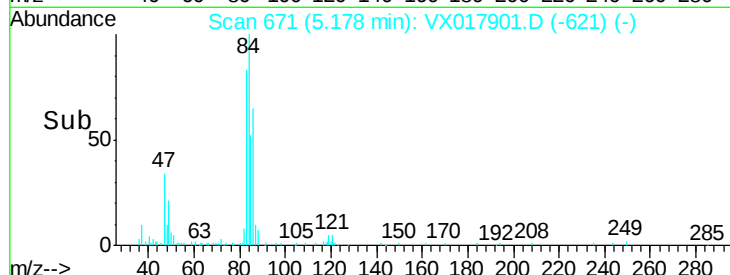
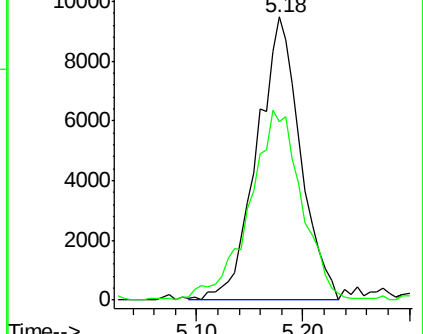
83 100

85 63.1 44.7 83.1



Abundance Ion 83.05 (82.75 to 83.75): VX0

Ion 85.00 (84.70 to 85.70): VX0



#29

1,1,1-Trichloroethane

Concen: 0.129 ug/L

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017901.D

Acq: 14 Aug 2020 15:43

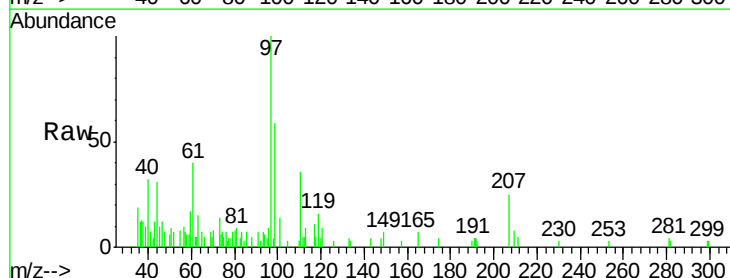
Tgt Ion: 97 Resp: 5627

Ion Ratio Lower Upper

97 100

99 71.2 52.2 78.2

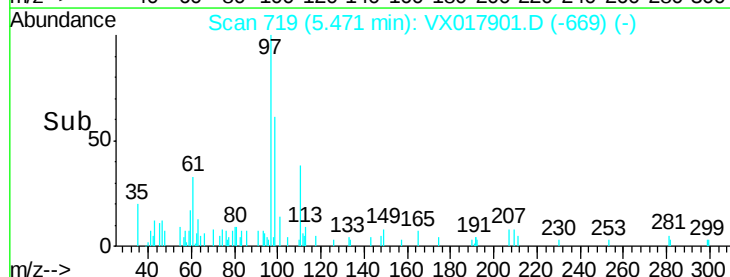
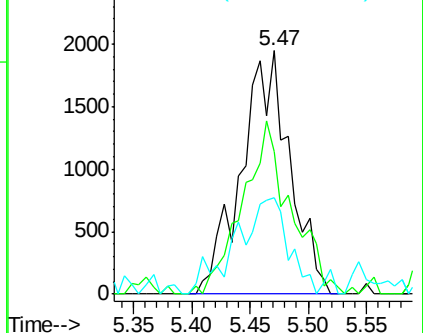
61 28.1 33.8 50.6#

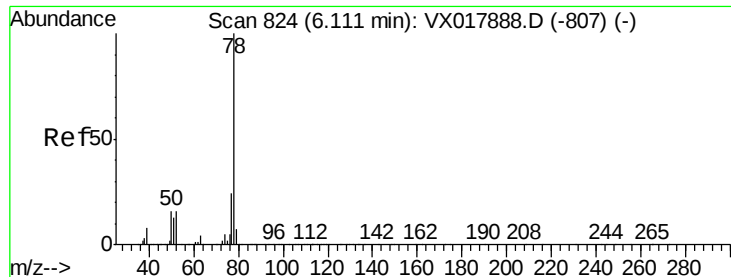


Abundance Ion 96.95 (96.65 to 97.65): VX0

Ion 99.05 (98.75 to 99.75): VX0

Ion 61.05 (60.75 to 61.75): VX0





#33

Benzene

Concen: 1.026 ug/L

RT: 6.11 min Scan# 824

Delta R.T. 0.00 min

Lab File: VX017901.D

Acq: 14 Aug 2020 15:43

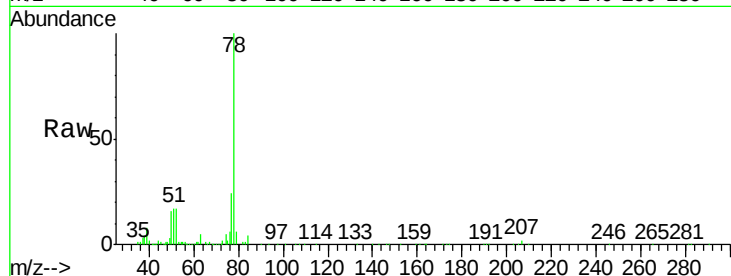
Instrument :

MSVOA_X

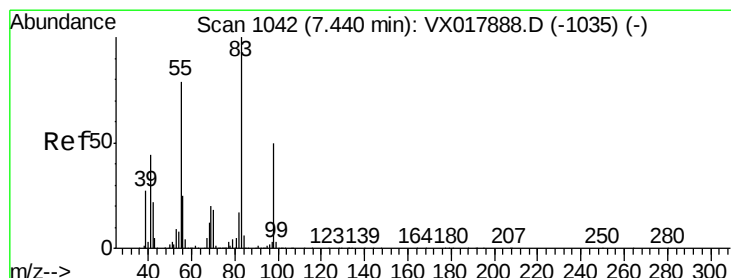
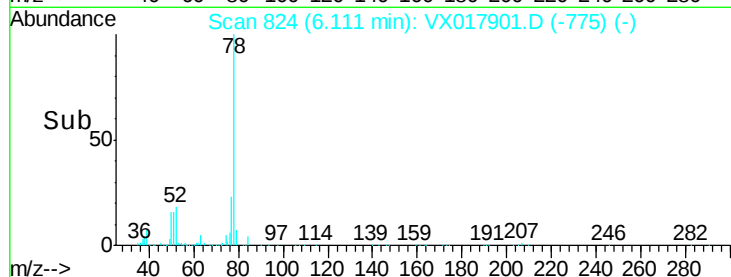
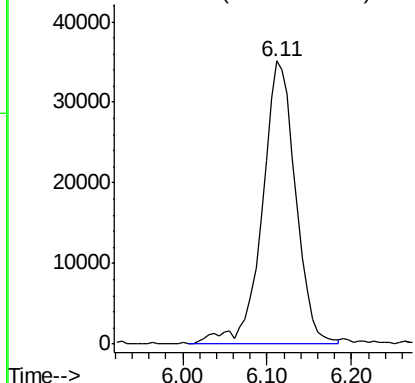
ClientSampleId :

BG0N3

Tgt Ion: 78 Resp: 96195



Abundance Ion 78.10 (77.80 to 78.80): VX0



#35

Methylcyclohexane

Concen: 0.724 ug/L

RT: 7.37 min Scan# 1031

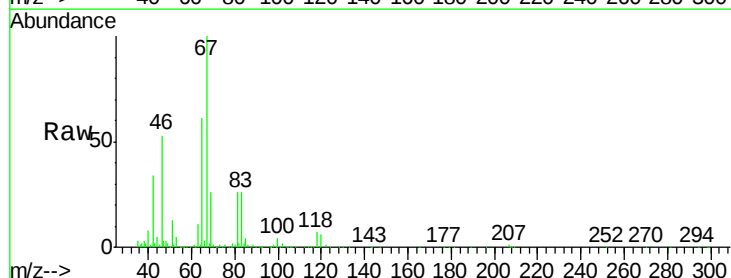
Delta R.T. -0.07 min

Lab File: VX017901.D

Acq: 14 Aug 2020 15:43

Tgt Ion: 83 Resp: 27882

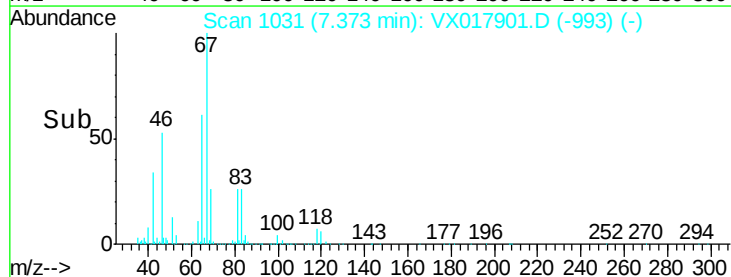
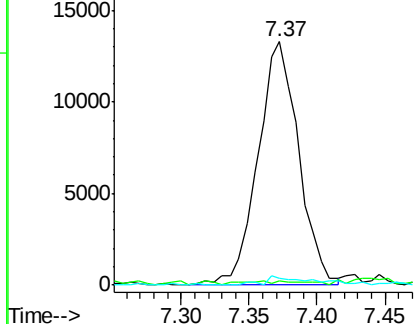
Ion	Ratio	Lower	Upper
83	100		
55	0.7	62.4	93.6#
98	3.2	38.0	57.0#

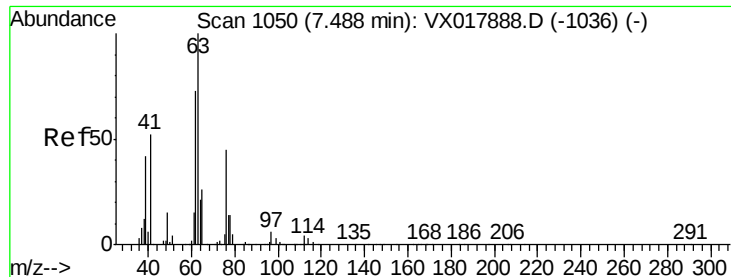


Abundance Ion 83.15 (82.85 to 83.85): VX0

Ion 55.10 (54.80 to 55.80): VX0

Ion 98.15 (97.85 to 98.85): VX0

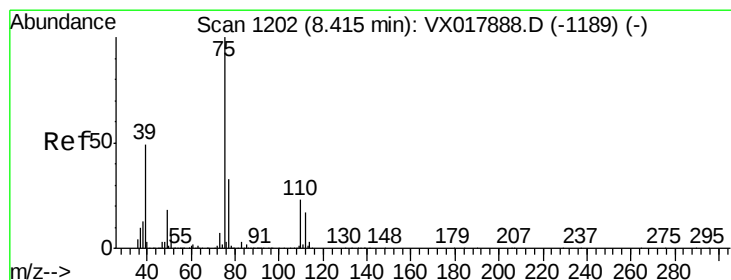
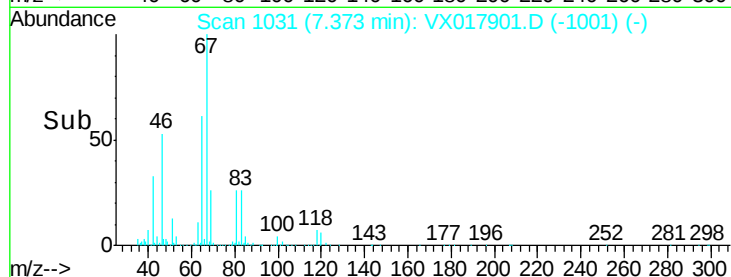
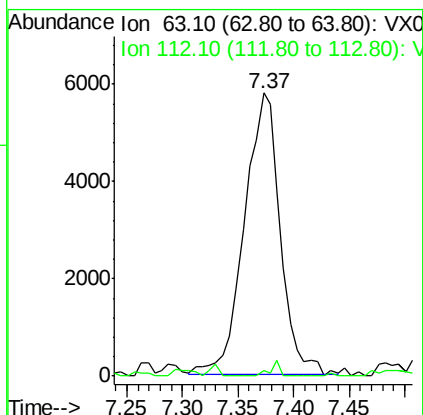
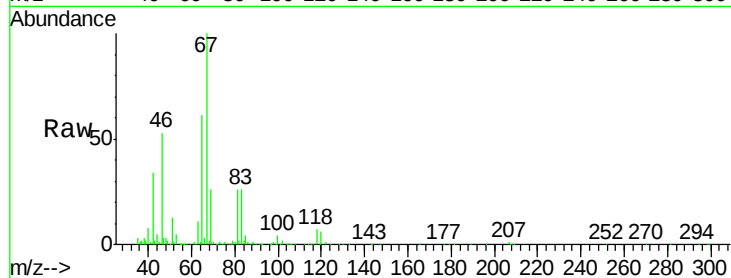




#37
 1,2-Dichloropropane
 Concen: 0.550 ug/L
 RT: 7.37 min Scan# 1031
 Delta R.T. -0.12 min
 Lab File: VX017901.D
 Acq: 14 Aug 2020 15:43

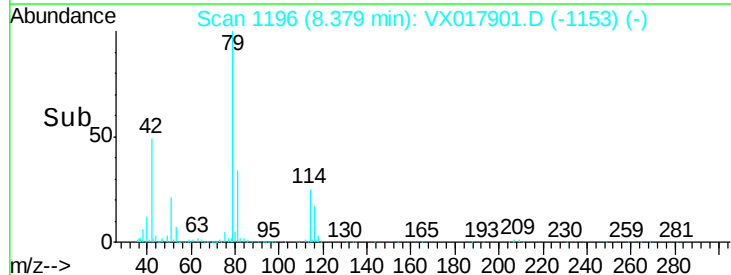
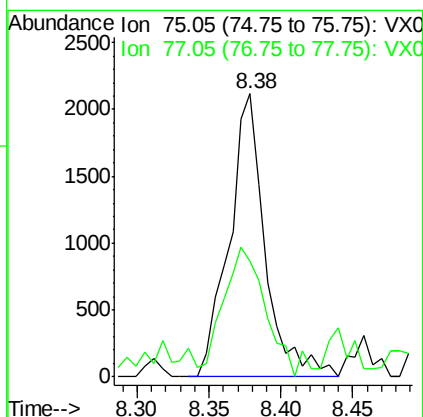
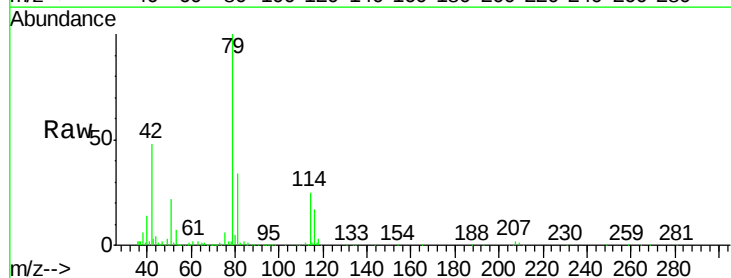
Instrument :
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 BG0N3

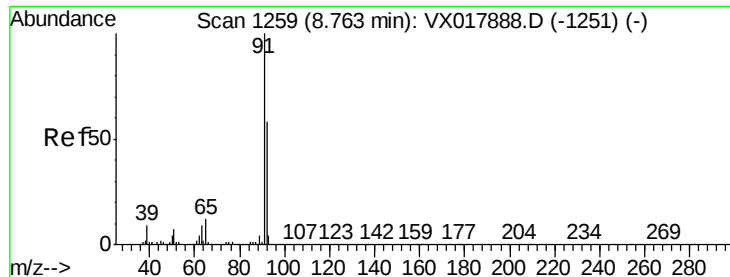
Tgt Ion: 63 Resp: 12970
 Ion Ratio Lower Upper
 63 100
 112 1.4 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.101 ug/L
 RT: 8.38 min Scan# 1196
 Delta R.T. -0.04 min
 Lab File: VX017901.D
 Acq: 14 Aug 2020 15:43

Tgt Ion: 75 Resp: 3678
 Ion Ratio Lower Upper
 75 100
 77 40.9 22.2 41.2





#42

Toluene

Concen: 1.317 ug/L

RT: 8.77 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VX017901.D

Acq: 14 Aug 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

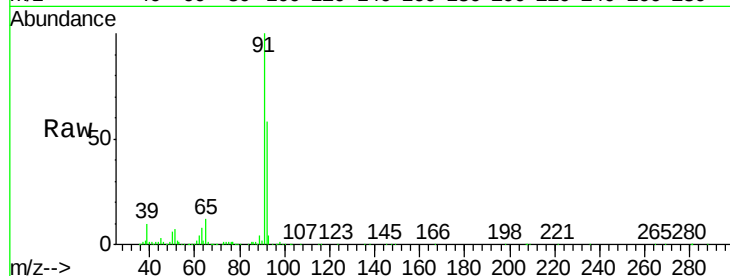
BG0N3

Tgt Ion: 91 Resp: 134097

Ion Ratio Lower Upper

91 100

92 57.9 38.8 72.0



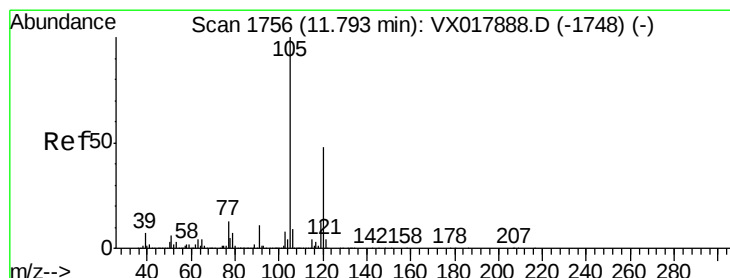
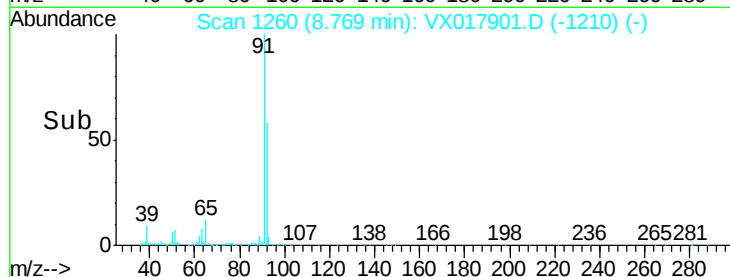
Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 92.15 (91.85 to 92.85): VX0

8.77

8.65 8.70 8.75 8.80 8.85

Time-->



#44

1,2,4-Trimethylbenzene

Concen: 0.063 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX017901.D

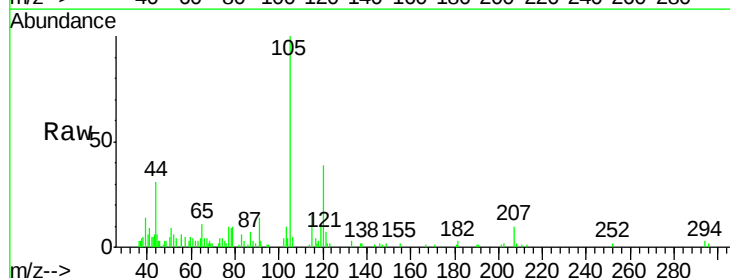
Acq: 14 Aug 2020 15:43

Tgt Ion:105 Resp: 5963

Ion Ratio Lower Upper

105 100

120 40.3 35.8 53.8



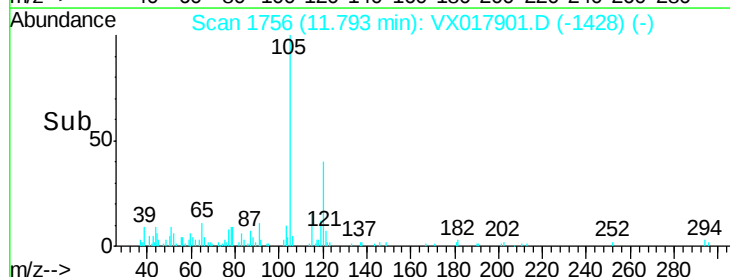
Abundance Ion 105.00 (104.70 to 105.70): V

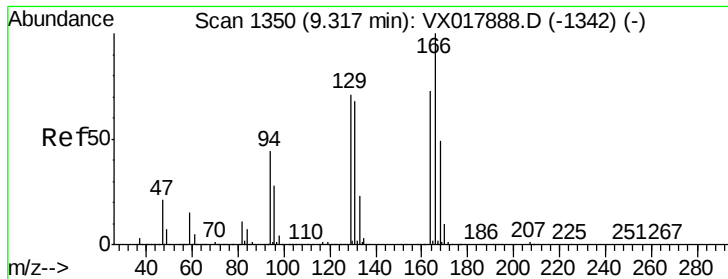
Ion 120.00 (119.70 to 120.70): V

11.79

11.75 11.80 11.85

Time-->

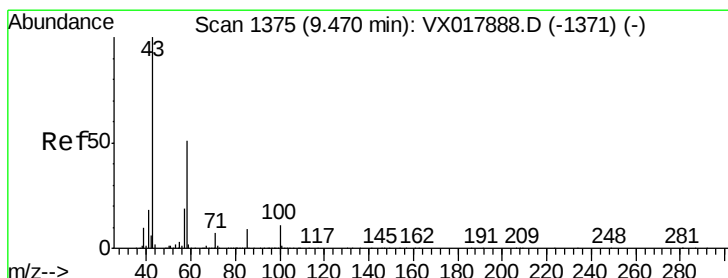
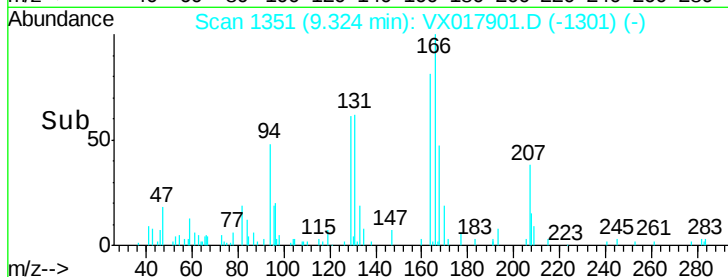
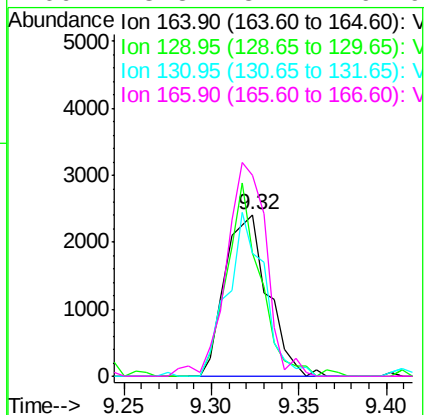
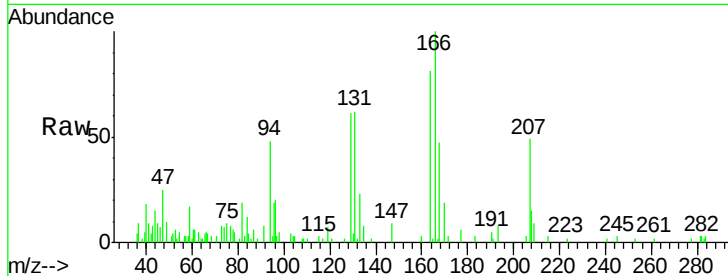




#49
Tetrachloroethene
Concen: 0.188 ug/L
RT: 9.32 min Scan# 1351
Delta R.T. 0.01 min
Lab File: VX017901.D
Acq: 14 Aug 2020 15:43

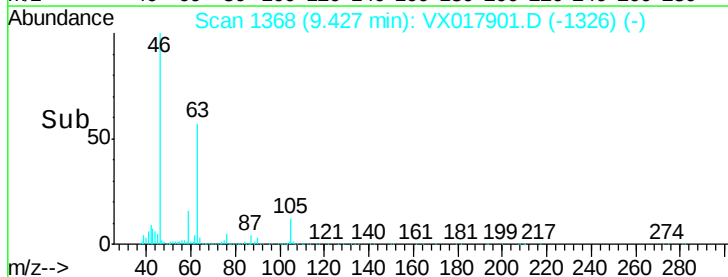
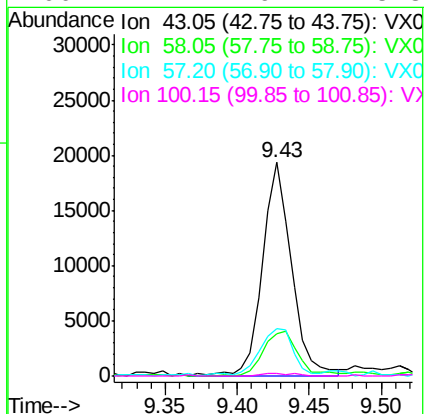
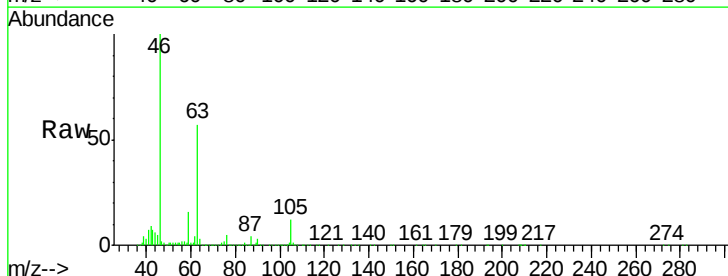
Instrument :
MSVOA_X
ClientSampleId :
BG0N3

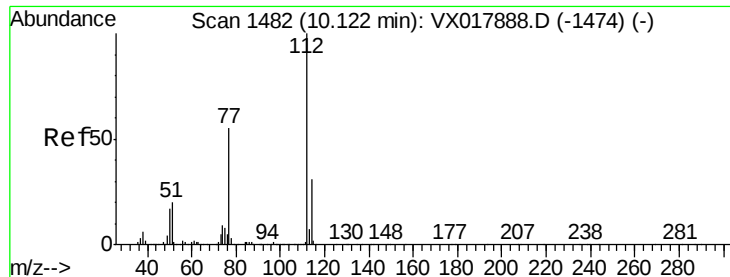
Tgt Ion:	164	Resp:	4118
Ion	Ratio	Lower	Upper
164	100		
129	75.9	67.4	125.2
131	76.2	65.3	121.3
166	123.8	87.2	161.9



#50
2-Hexanone
Concen: 2.457 ug/L
RT: 9.43 min Scan# 1368
Delta R.T. -0.04 min
Lab File: VX017901.D
Acq: 14 Aug 2020 15:43

Tgt Ion:	43	Resp:	27044
Ion	Ratio	Lower	Upper
43	100		
58	25.3	43.0	64.6#
57	26.1	15.0	22.4#
100	1.4	9.2	13.8#





#53

Chlorobenzene

Concen: 0.295 ug/L

RT: 10.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VX017901.D

Acq: 14 Aug 2020 15:43

Instrument :

MSVOA_X

ClientSampled :

BG0N3

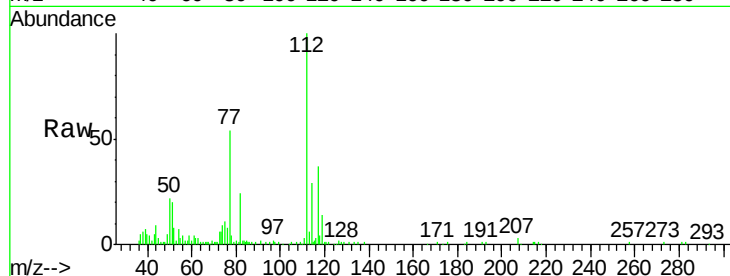
Tgt Ion: 112 Resp: 19527

Ion Ratio Lower Upper

112 100

114 29.4 23.5 43.7

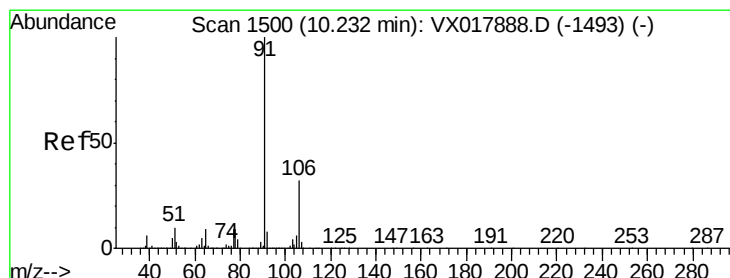
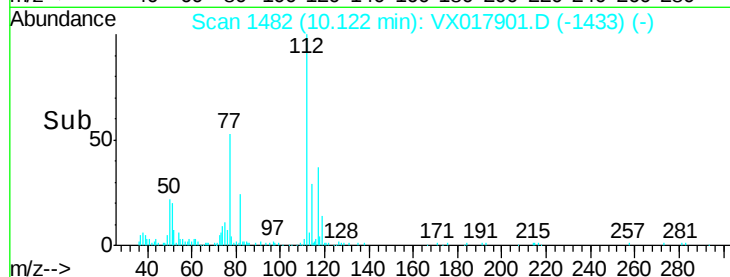
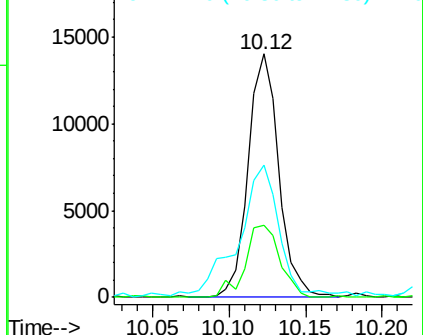
77 54.1 46.7 70.1



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: 0.192 ug/L

RT: 10.24 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VX017901.D

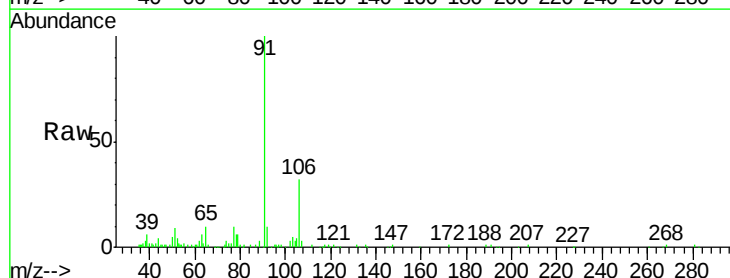
Acq: 14 Aug 2020 15:43

Tgt Ion: 91 Resp: 21356

Ion Ratio Lower Upper

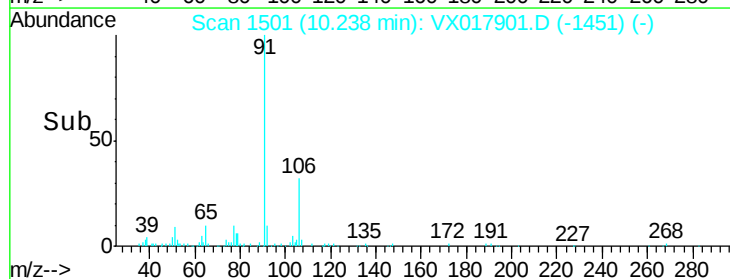
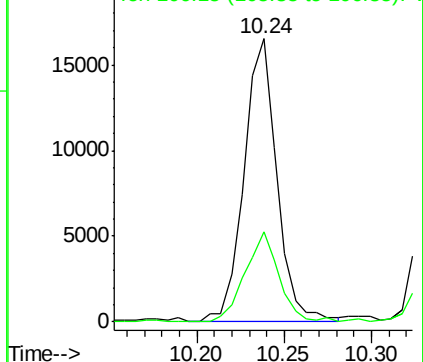
91 100

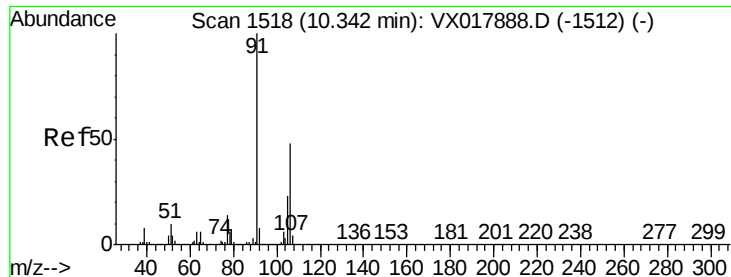
106 31.7 22.5 41.9



Abundance Ion 91.15 (90.85 to 91.85): V

Ion 106.15 (105.85 to 106.85): V





#55

m,p-xylene

Concen: 0.519 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX017901.D

Acq: 14 Aug 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

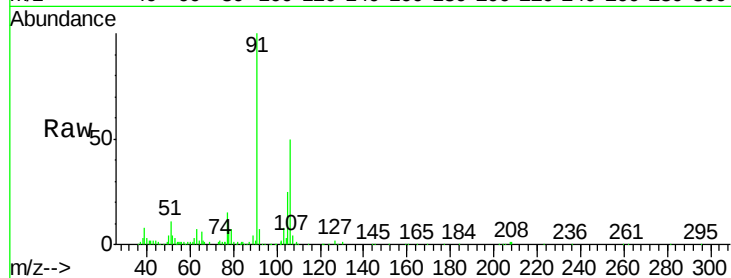
BG0N3

Tgt Ion:106 Resp: 21998

Ion Ratio Lower Upper

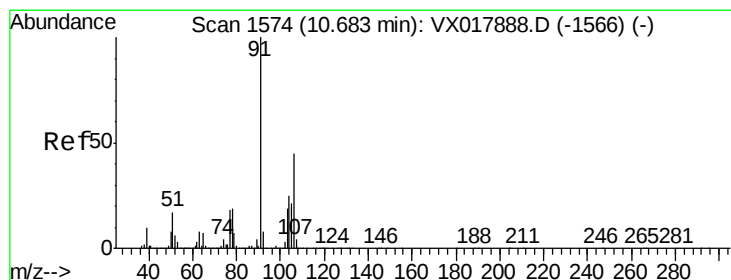
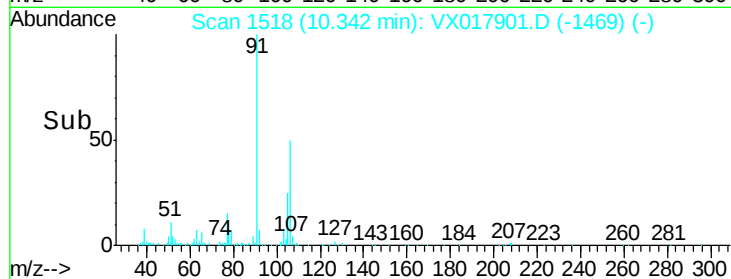
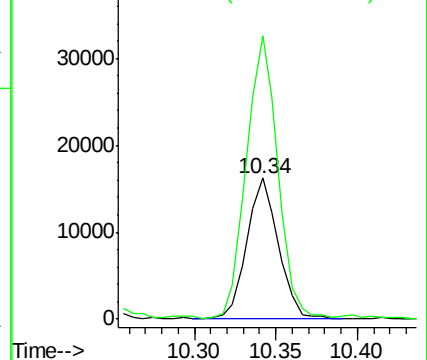
106 100

91 201.2 143.3 266.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0



#56

o-xylene

Concen: 0.177 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VX017901.D

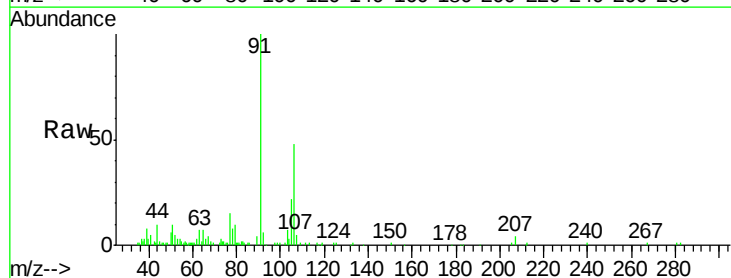
Acq: 14 Aug 2020 15:43

Tgt Ion:106 Resp: 7299

Ion Ratio Lower Upper

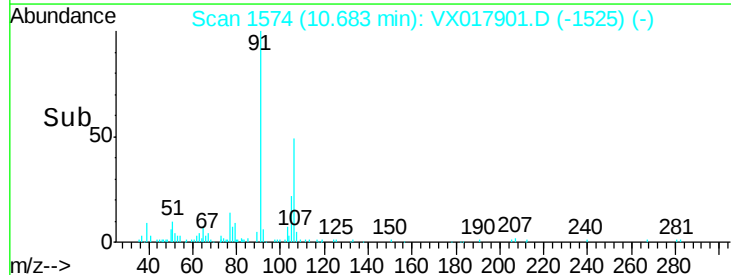
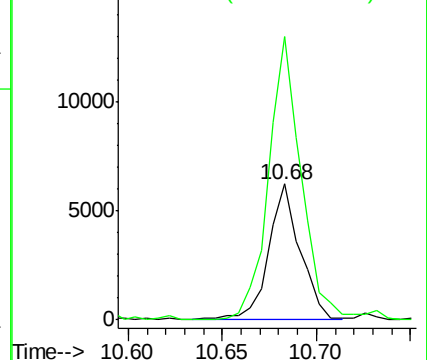
106 100

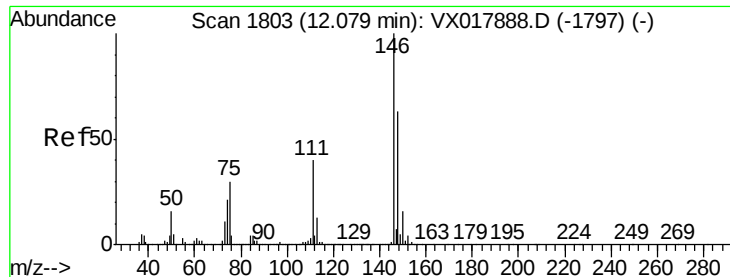
91 208.1 149.8 278.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0

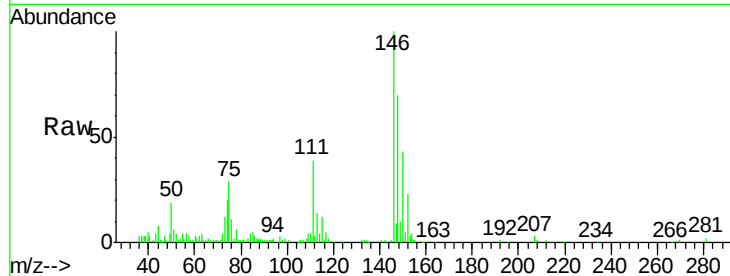




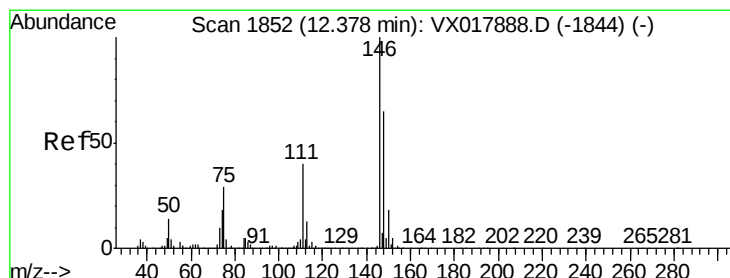
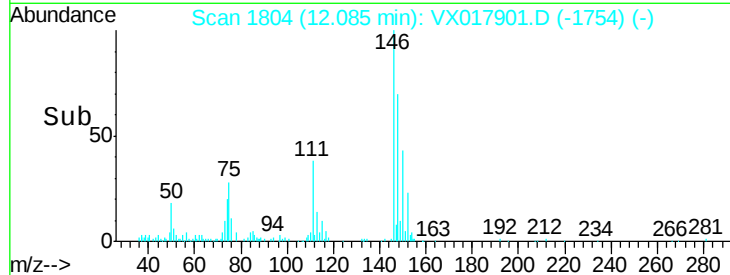
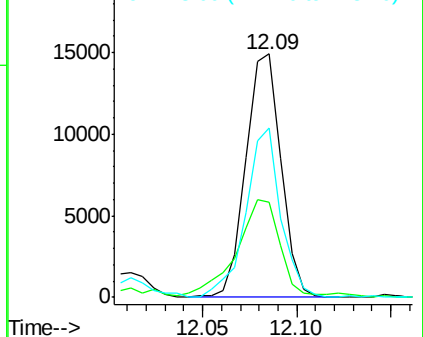
#64
 1,4-Dichlorobenzene
 Concen: 0.391 ug/L
 RT: 12.09 min Scan# 1804
 Delta R.T. 0.01 min
 Lab File: VX017901.D
 Acq: 14 Aug 2020 15:43

Instrument :
 MSVOA_X
 ClientSampleId :
 BG0N3

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.1	26.0	48.2
148	69.8	43.2	80.2

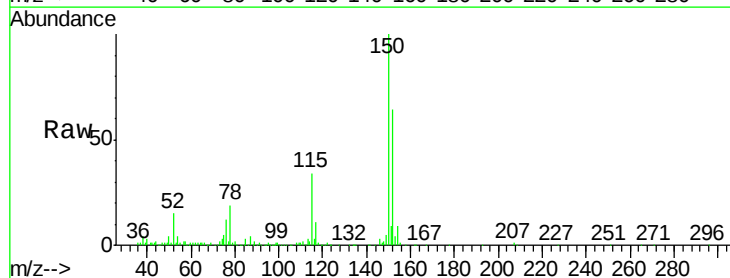


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

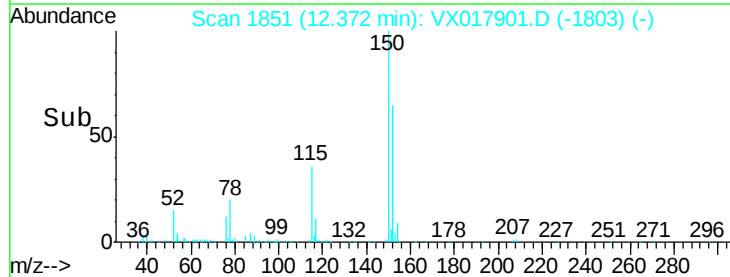
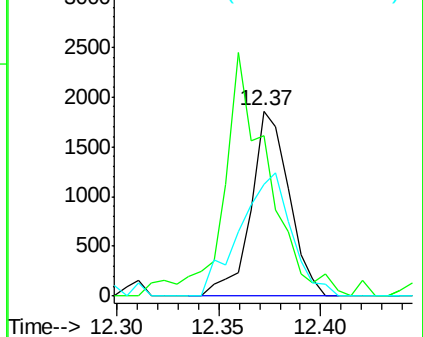


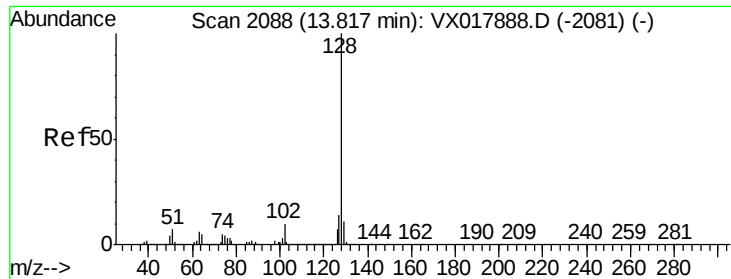
#66
 1,2-Dichlorobenzene
 Concen: 0.052 ug/L
 RT: 12.37 min Scan# 1851
 Delta R.T. -0.01 min
 Lab File: VX017901.D
 Acq: 14 Aug 2020 15:43

Tgt Ion	Ratio	Lower	Upper
146	100		
111	86.4	32.2	48.4#
148	60.6	52.3	78.5



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: 0.072 ug/L

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX017901.D

Acq: 14 Aug 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

BG0N3

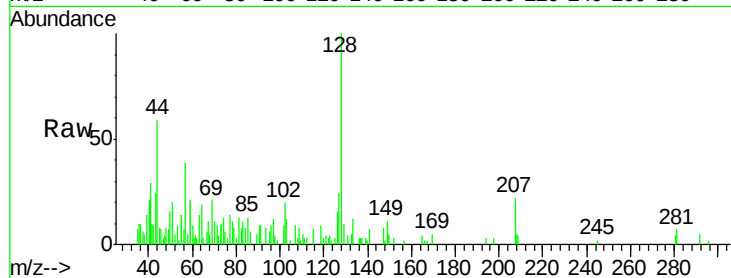
Tgt Ion:128 Resp: 4304

Ion Ratio Lower Upper

128 100

129 19.1 8.4 12.6#

127 27.9 11.0 16.4#



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

