

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120420\
 Data File : VX019741.D
 Acq On : 05 Dec 2020 00:43
 Operator : JC/MD
 Sample : L4953-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ID039-39MWE2S-120320

Quant Time: Dec 05 03:56:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	332423	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	547793	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	493422	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	214827	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	206739	47.32	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.64%
35) Dibromofluoromethane	5.46	113	167330	47.26	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.52%
50) Toluene-d8	8.70	98	653320	48.34	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	96.68%
62) 4-Bromofluorobenzene	11.12	95	231931	45.08	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.16%

Target Compounds

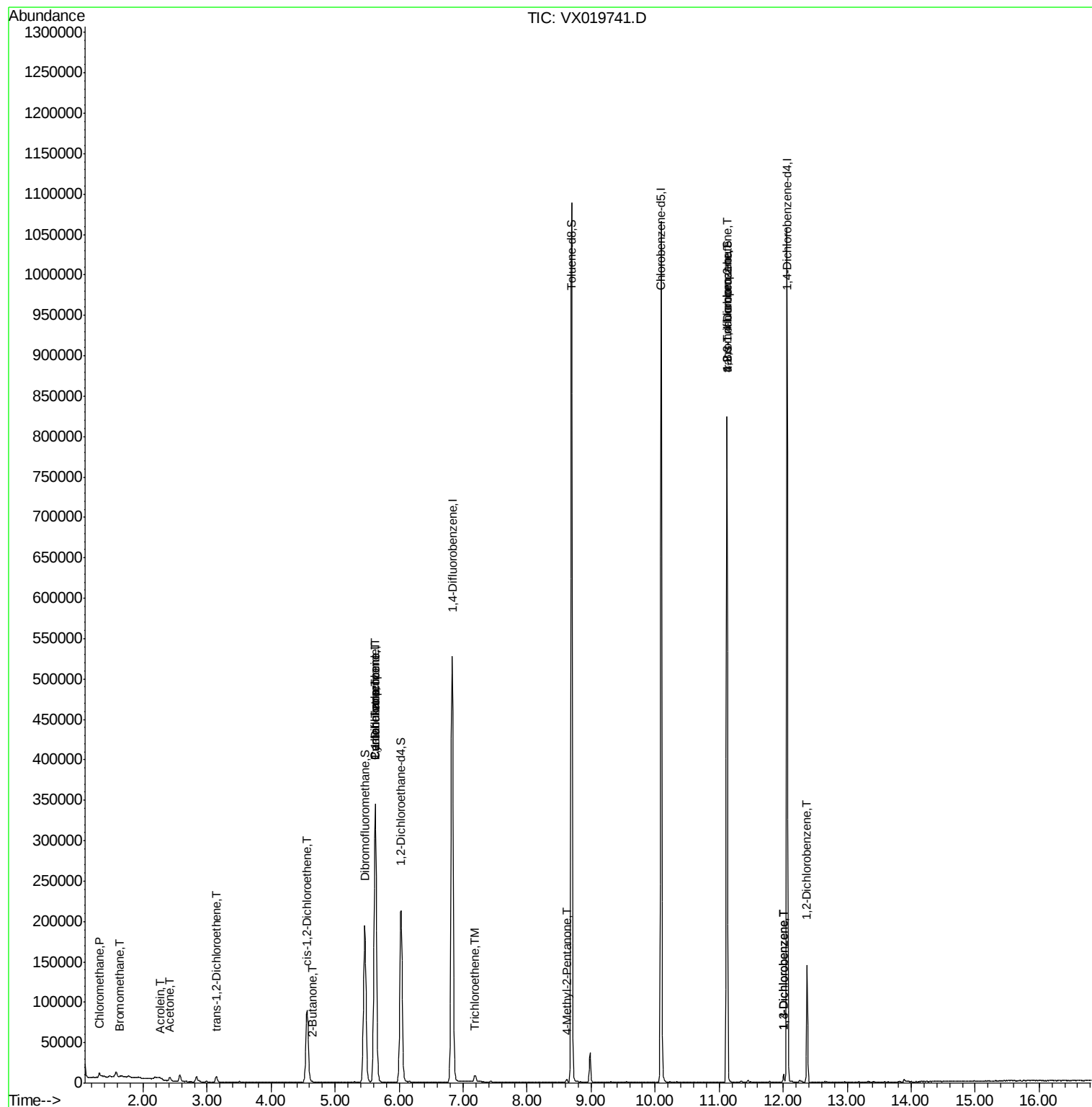
					Qvalue
3) Chloromethane	1.31	50	1658	0.463 ug/l	96
5) Bromomethane	1.63	94	389	0.310 ug/l	91
11) Tert butyl alcohol	3.00	59	645	Below Cal	# 73
13) Acrolein	2.28	56	154	0.319 ug/l	# 14
16) Acetone	2.42	43	4857	2.958 ug/l	99
20) Methylene Chloride	2.84	84	3032	Below Cal	96
21) trans-1,2-Dichloroethene	3.14	96	2560	0.721 ug/l	# 86
25) 2-Butanone	4.65	43	528	0.209 ug/l	# 45
27) cis-1,2-Dichloroethene	4.56	96	59033	14.206 ug/l	90
31) Cyclohexane	5.62	56	6589	1.212 ug/l	# 1
36) 1,1-Dichloropropene	5.62	75	25326	5.116 ug/l	# 48
38) Carbon Tetrachloride	5.63	117	32343	6.672 ug/l	# 16
44) Trichloroethene	7.18	130	2937	0.740 ug/l	100
51) 4-Methyl-2-Pentanone	8.62	43	1819	0.367 ug/l	97
76) 1,2,3-Trichloropropane	11.12	75	111736	23.190 ug/l	# 39
81) trans-1,4-Dichloro-2-buten	11.12	75	111736	67.039 ug/l	# 12
87) 1,3-Dichlorobenzene	12.01	146	3532	0.512 ug/l	96
88) 1,4-Dichlorobenzene	12.01	146	3532	0.503 ug/l	97
91) 1,2-Dichlorobenzene	12.38	146	47899	7.128 ug/l	99

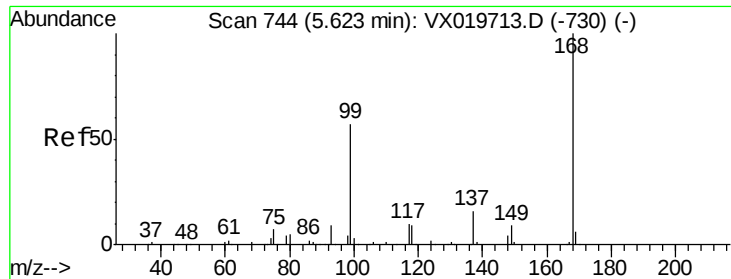
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.00 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

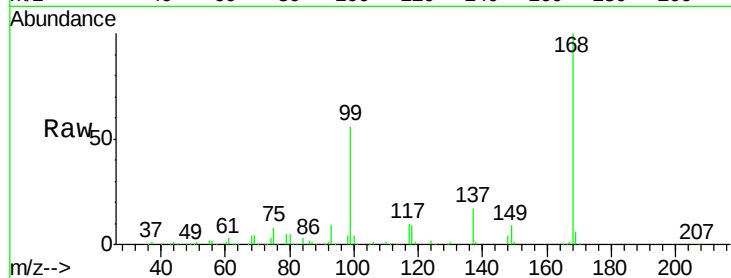
ID039-39MWE2S-120320

Tot Ion:168 Resp: 332423

Ion Ratio Lower Upper

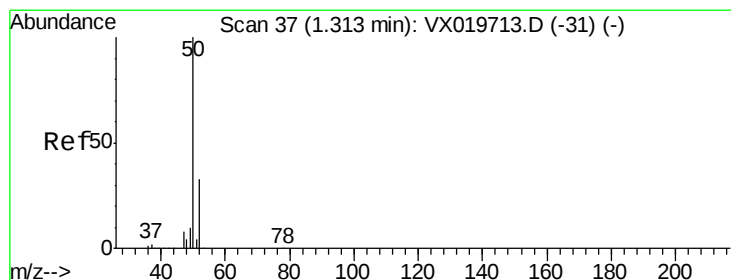
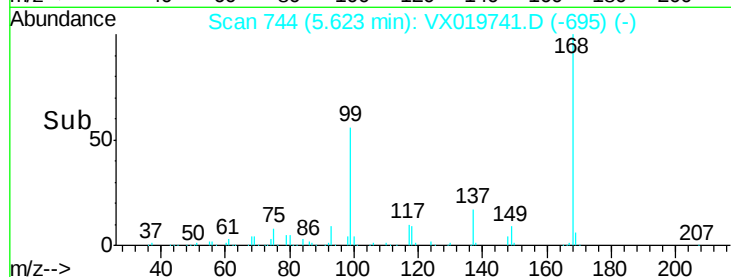
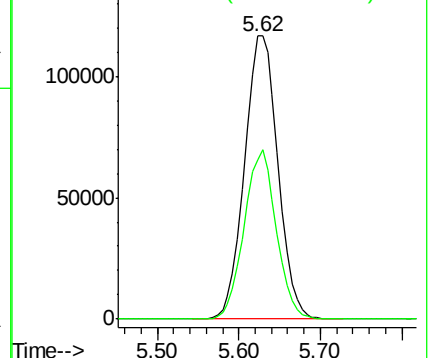
168 100

99 56.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.463 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019741.D

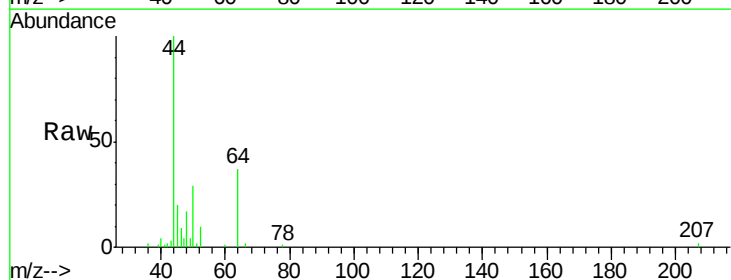
Acq: 05 Dec 2020 00:43

Tgt Ion: 50 Resp: 1658

Ion Ratio Lower Upper

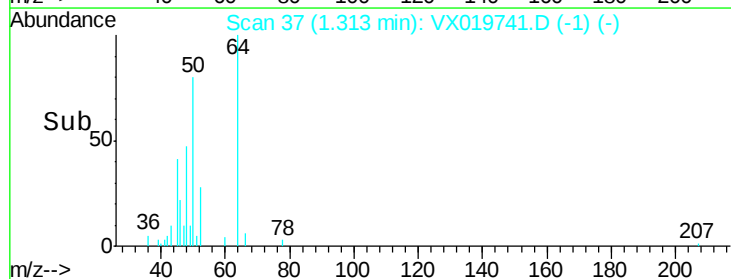
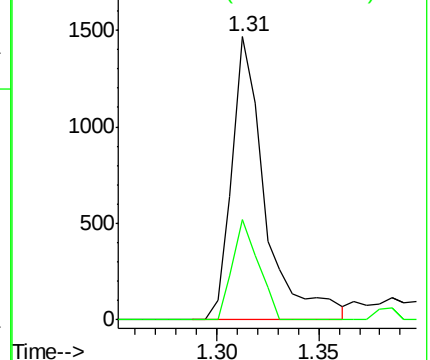
50 100

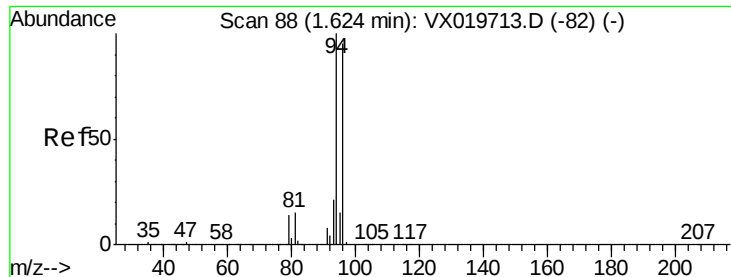
52 35.3 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.310 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

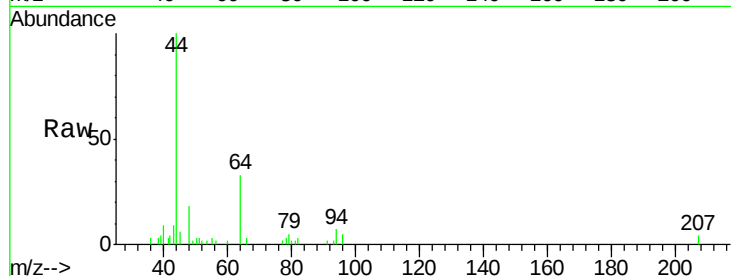
ID039-39MWE2S-120320

Tot Ion: 94 Resp: 389

Ion Ratio Lower Upper

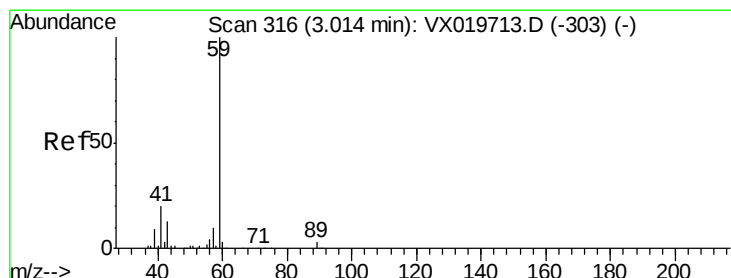
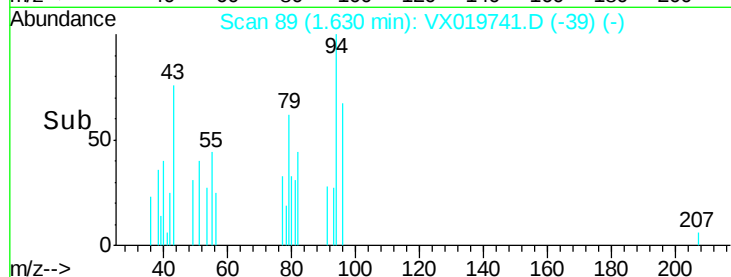
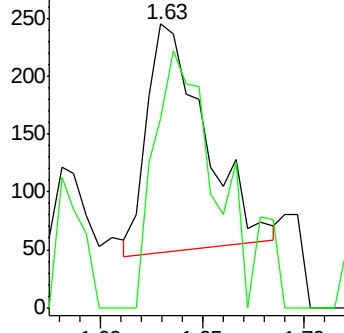
94 100

96 87.2 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX019741.D

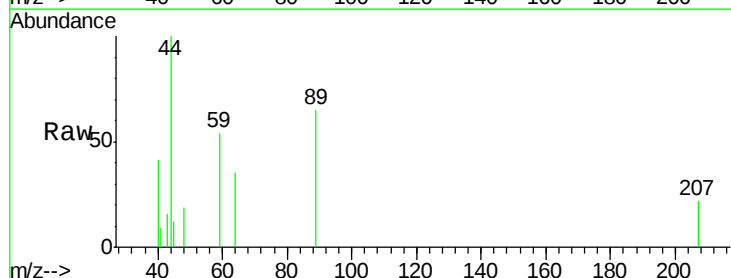
Acq: 05 Dec 2020 00:43

Tgt Ion: 59 Resp: 645

Ion Ratio Lower Upper

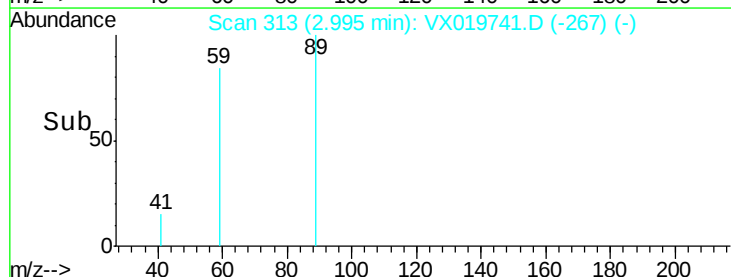
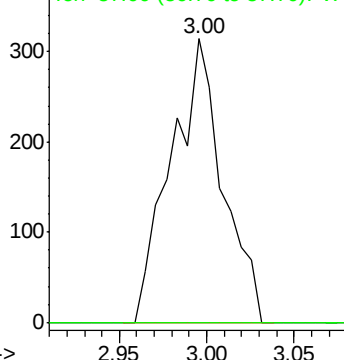
59 100

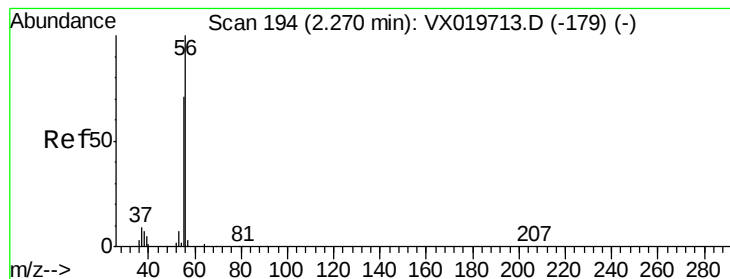
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.319 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

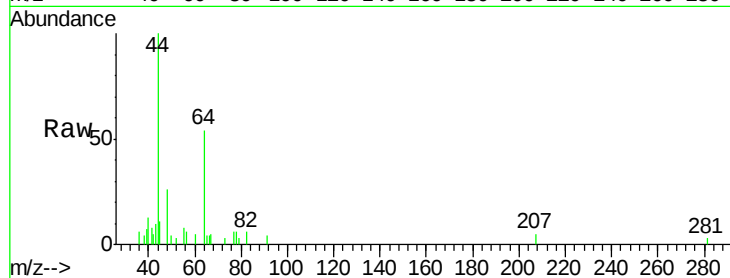
ID039-39MWE2S-120320

Tot Ion: 56 Resp: 154

Ion Ratio Lower Upper

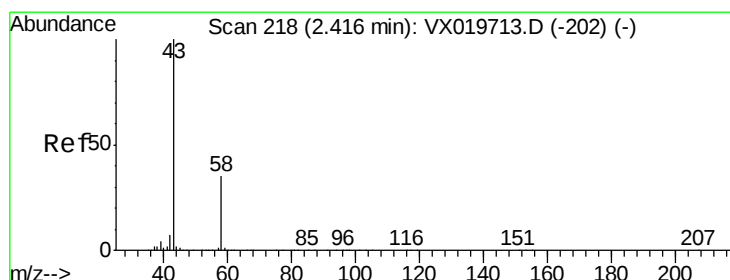
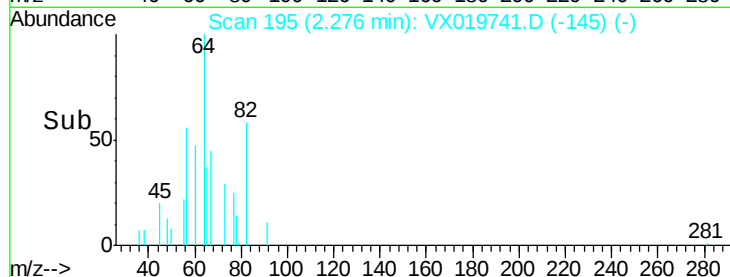
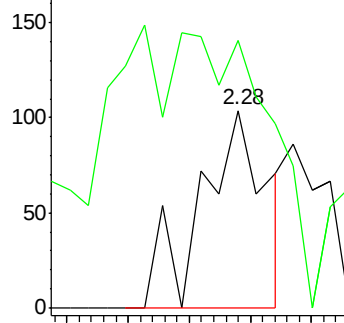
56 100

55 0.0 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.958 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019741.D

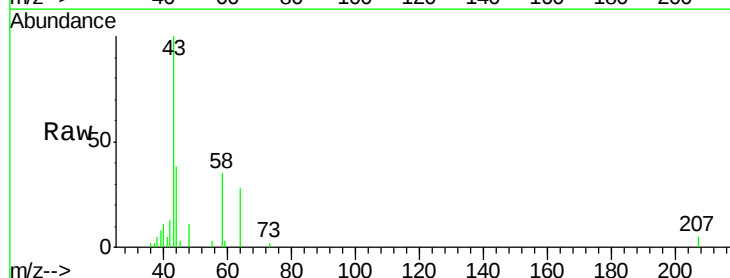
Acq: 05 Dec 2020 00:43

Tgt Ion: 43 Resp: 4857

Ion Ratio Lower Upper

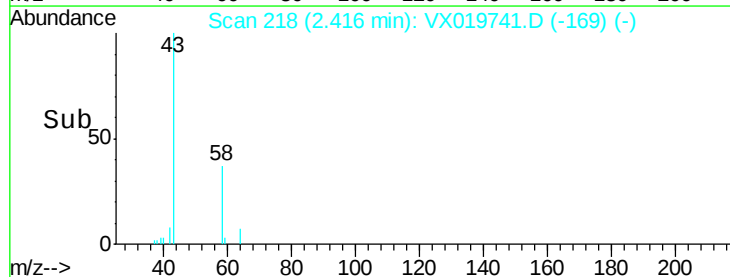
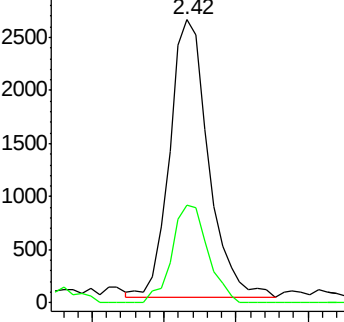
43 100

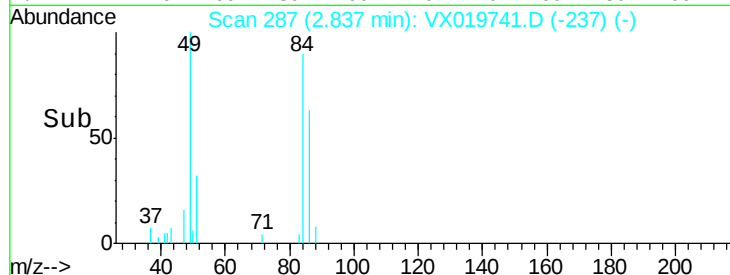
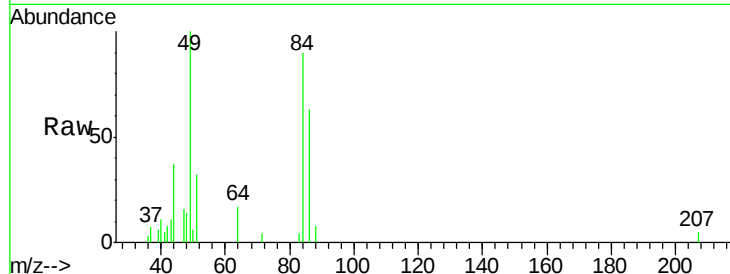
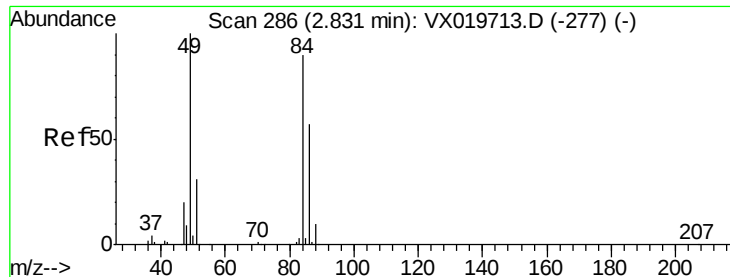
58 35.5 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

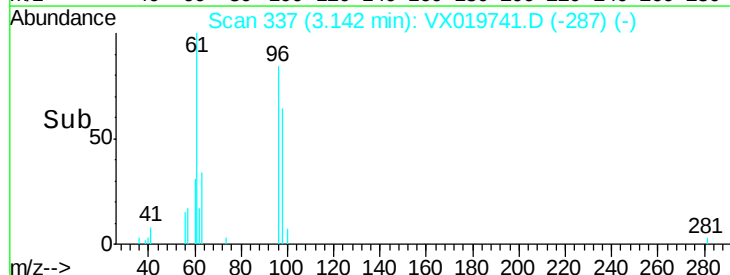
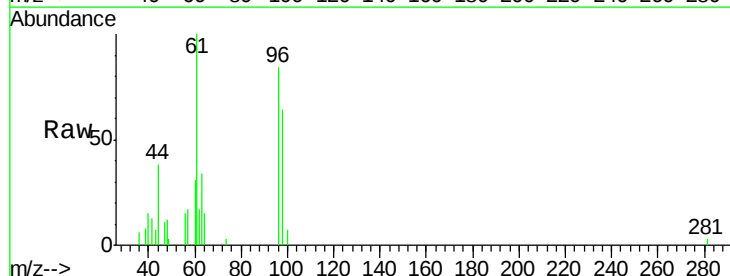
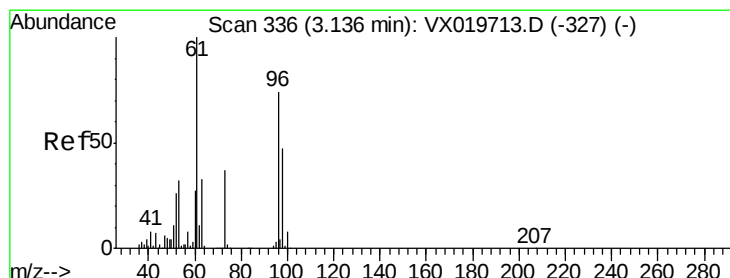
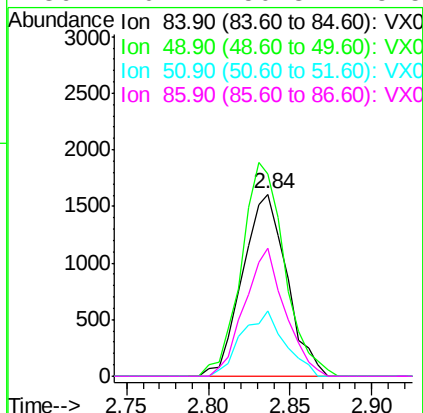




#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019741.D
Acq: 05 Dec 2020 00:43

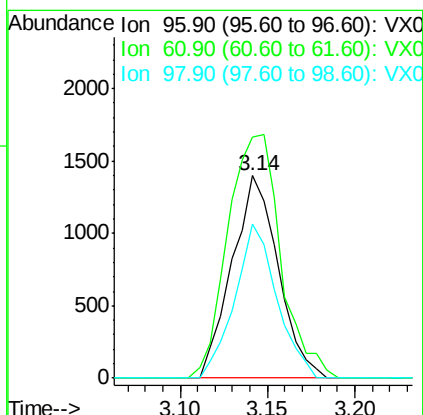
Instrument :
MSVOA_X
ClientSampleId :
ID039-39MWE2S-120320

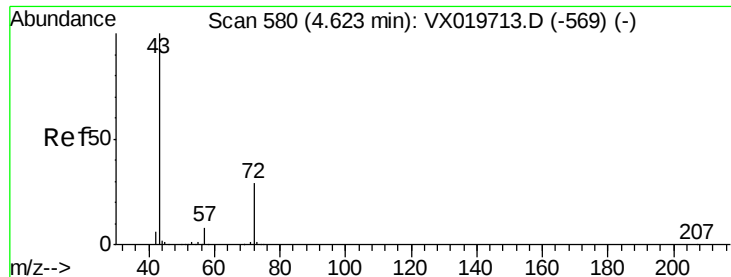
Tot Ion:	84	Resp:	3032
Ion	Ratio	Lower	Upper
84	100		
49	111.1	88.6	132.8
51	35.5	27.0	40.6
86	70.4	50.3	75.5



#21
trans-1,2-Dichloroethene
Concen: 0.721 ug/l
RT: 3.14 min Scan# 337
Delta R.T. 0.01 min
Lab File: VX019741.D
Acq: 05 Dec 2020 00:43

Tgt Ion:	96	Resp:	2560
Ion	Ratio	Lower	Upper
96	100		
61	118.8	107.7	161.5
98	75.8	50.4	75.6#





#25

2-Butanone

Concen: 0.209 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.02 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

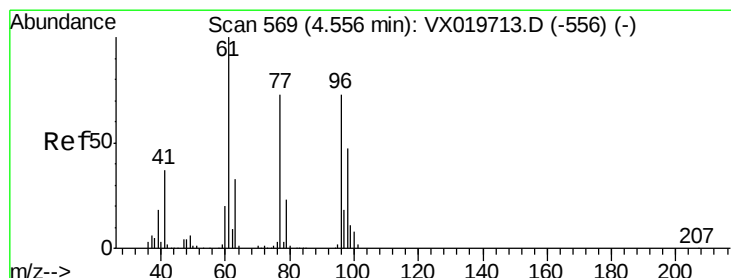
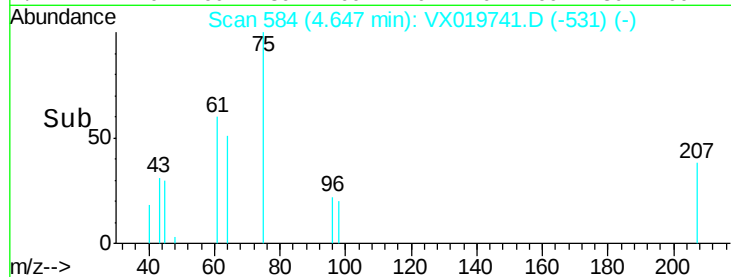
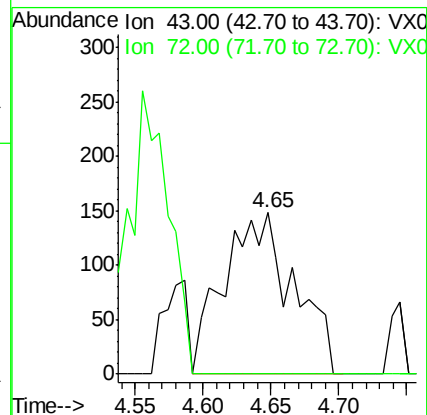
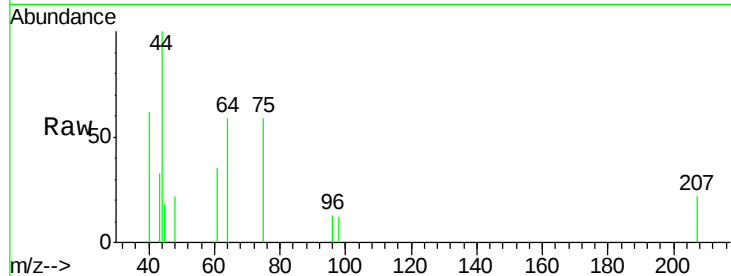
ID039-39MWE2S-120320

Tot Ion: 43 Resp: 528

Ion Ratio Lower Upper

43 100

72 0.0 23.7 35.5#



#27

cis-1,2-Dichloroethene

Concen: 14.206 ug/l

RT: 4.56 min Scan# 570

Delta R.T. 0.01 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

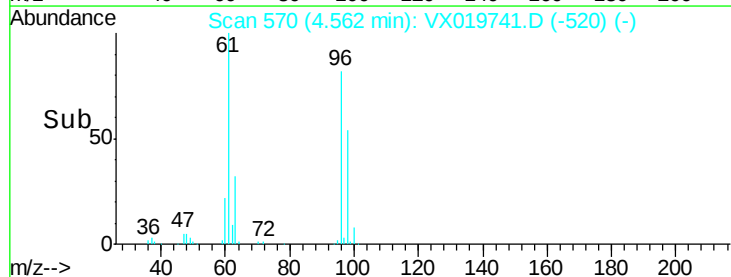
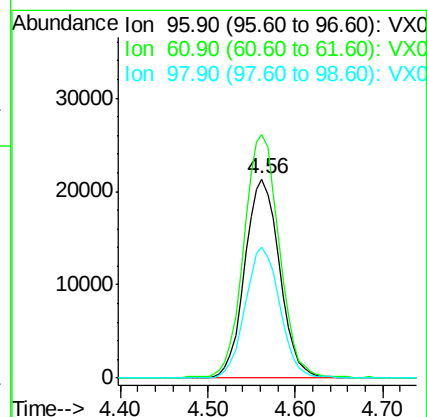
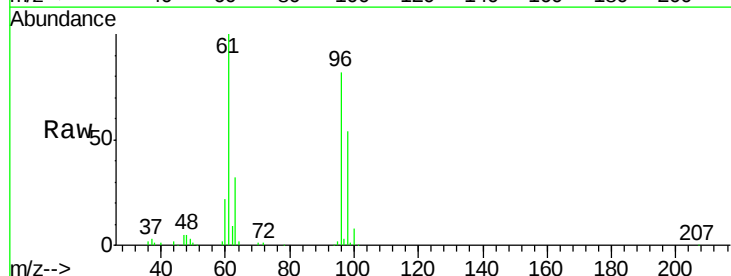
Tgt Ion: 96 Resp: 59033

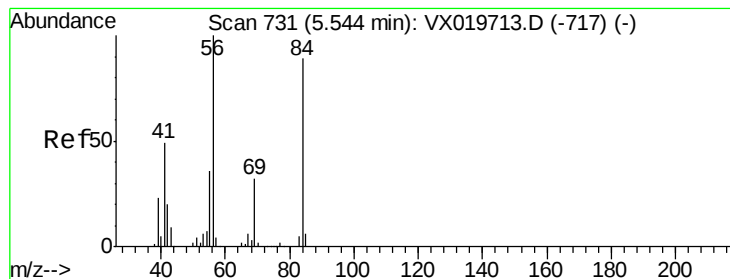
Ion Ratio Lower Upper

96 100

61 125.3 0.0 285.6

98 65.5 0.0 129.6





#31

Cvclohexane

Concen: 1.212 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

Instrument :

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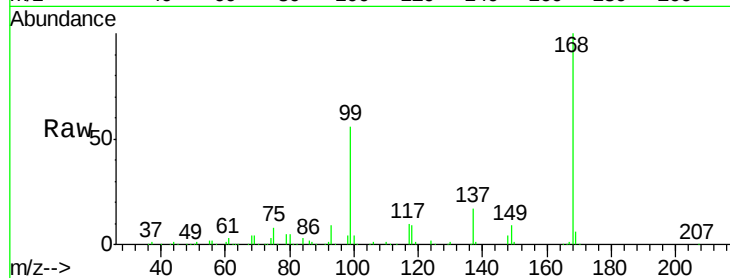
Tot Ion: 56 Resp: 6589

Ion Ratio Lower Upper

56 100

69 173.7 25.3 37.9#

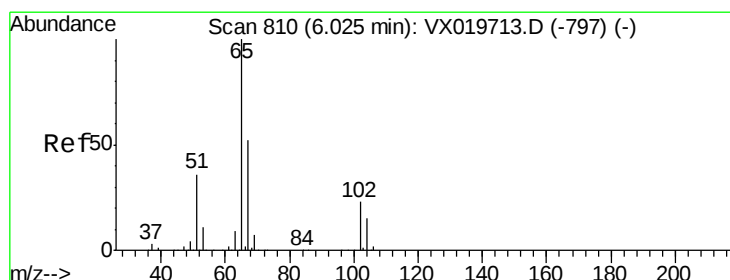
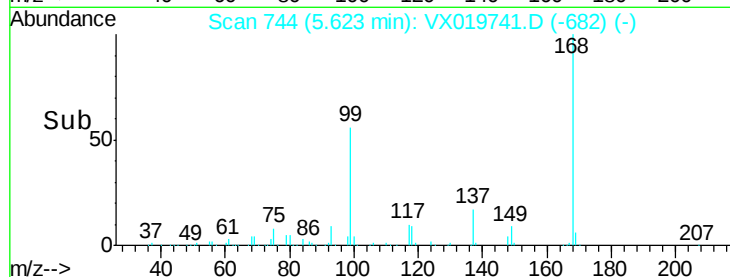
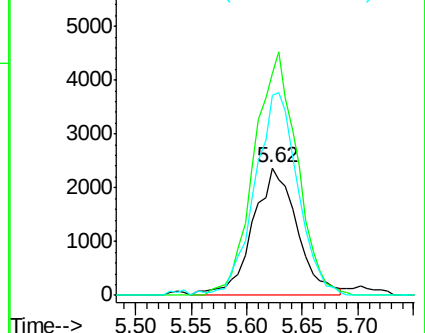
84 157.3 71.4 107.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.319 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX019741.D

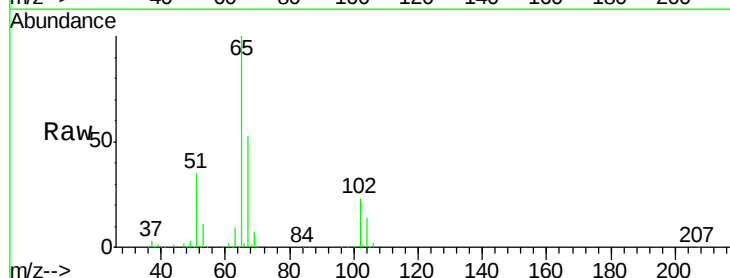
Acq: 05 Dec 2020 00:43

Tgt Ion: 65 Resp: 206739

Ion Ratio Lower Upper

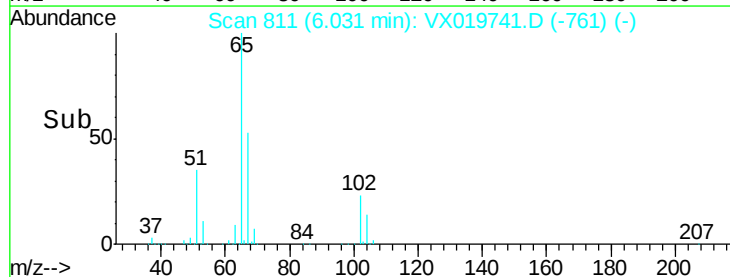
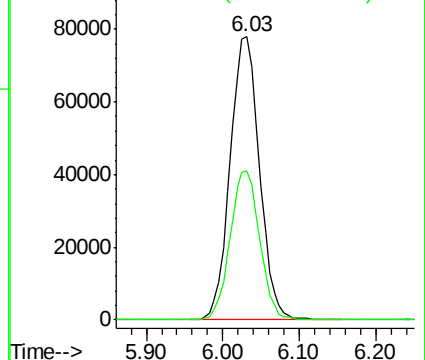
65 100

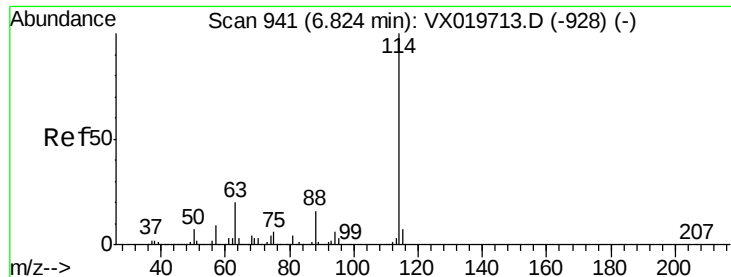
67 52.9 0.0 105.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

ID039-39MWE2S-120320

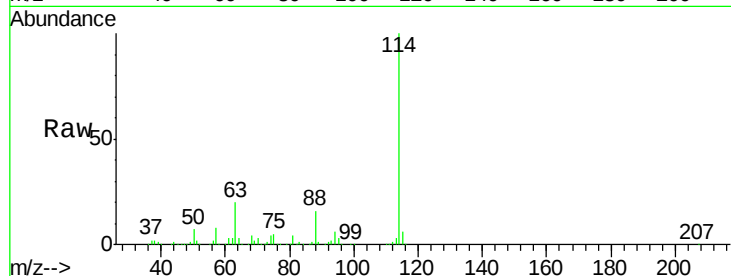
Tot Ion:114 Resp: 547793

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.8

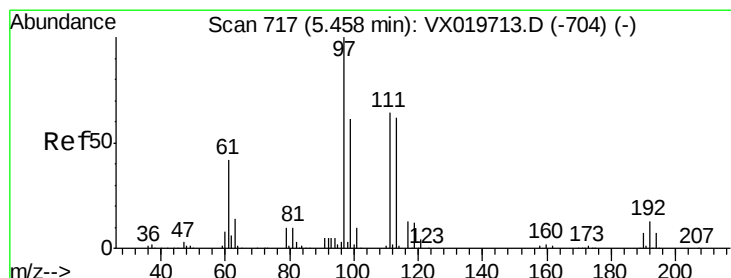
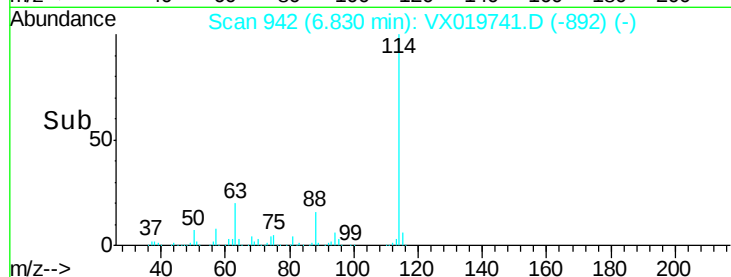
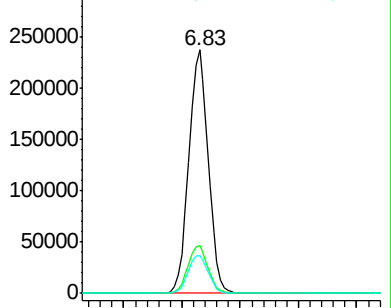
88 15.6 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.264 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

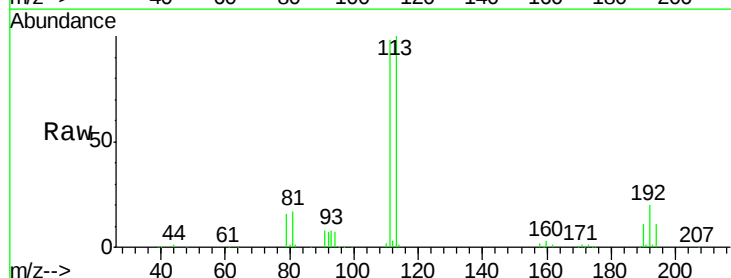
Tgt Ion:113 Resp: 167330

Ion Ratio Lower Upper

113 100

111 102.2 81.9 122.9

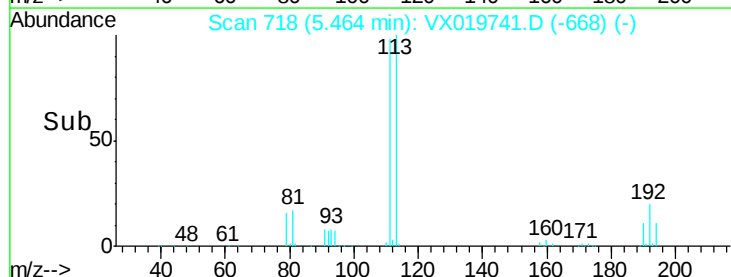
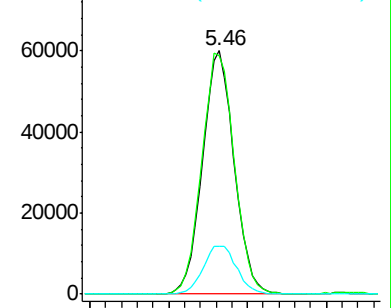
192 20.8 16.7 25.1

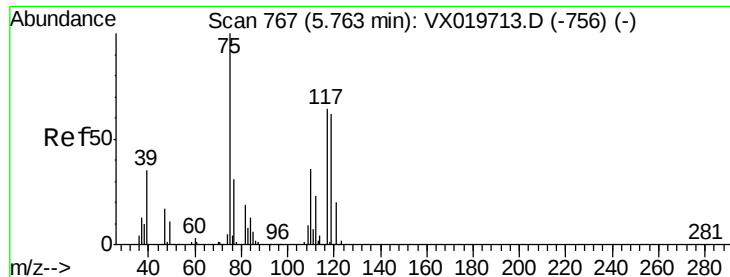


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

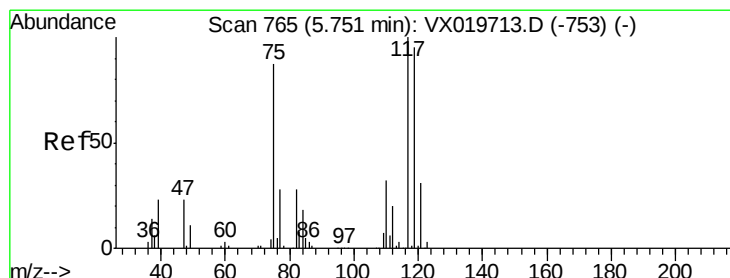
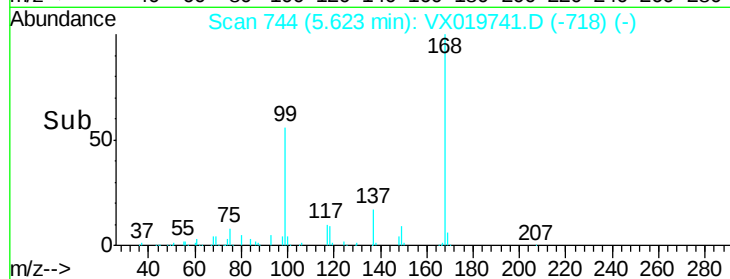
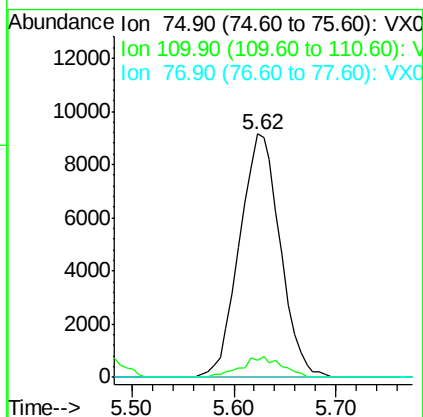
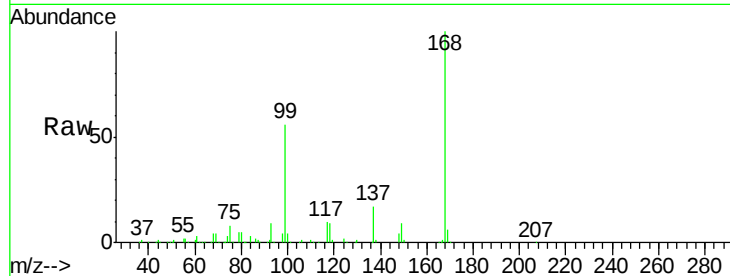




#36
 1,1-Dichloropropene
 Concen: 5.116 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019741.D
 Acq: 05 Dec 2020 00:43

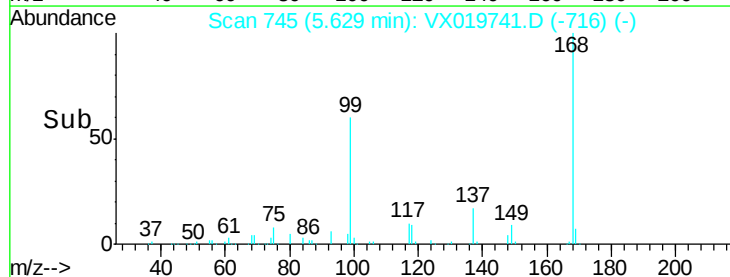
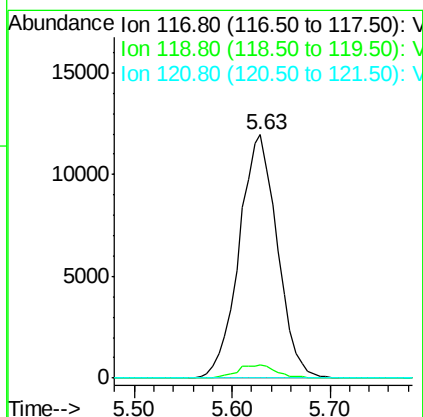
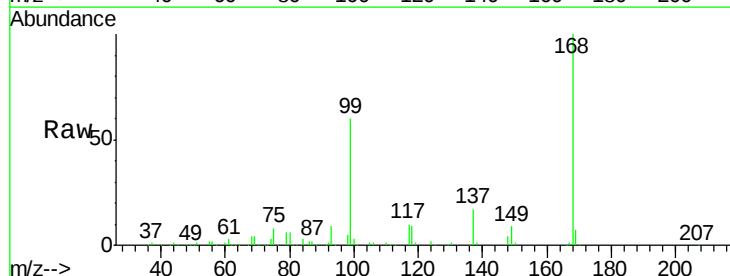
Instrument :
 MSVOA_X
 ClientSampleId :
 ID039-39MWE2S-120320

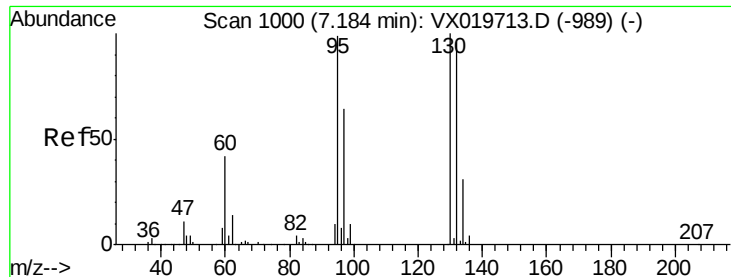
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.1	54.4#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 6.672 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX019741.D
 Acq: 05 Dec 2020 00:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.2	114.2#
121	0.0	24.8	37.2#





#44

Trichloroethene

Concen: 0.740 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

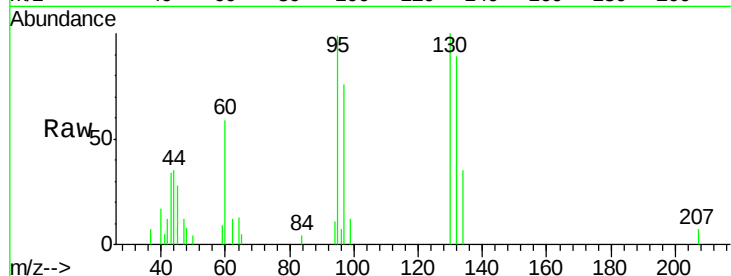
ID039-39MWE2S-120320

Tot Ion:130 Resp: 2937

Ion Ratio Lower Upper

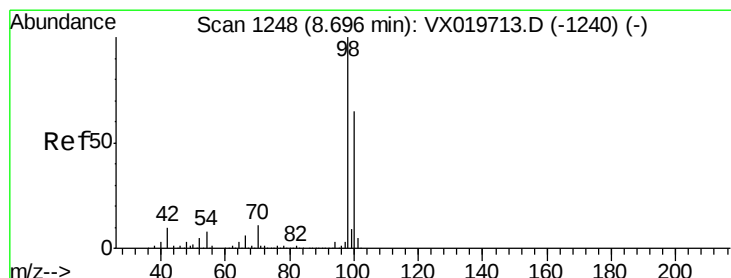
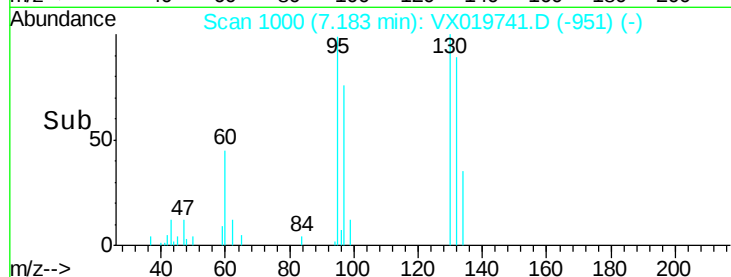
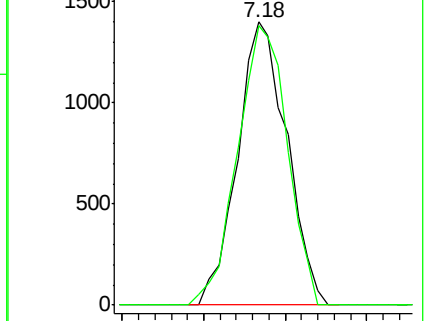
130 100

95 98.8 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 48.337 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019741.D

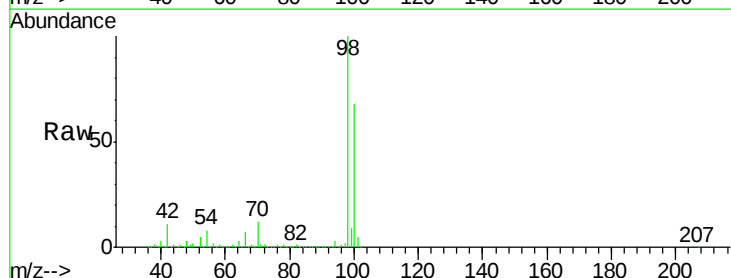
Acq: 05 Dec 2020 00:43

Tgt Ion: 98 Resp: 653320

Ion Ratio Lower Upper

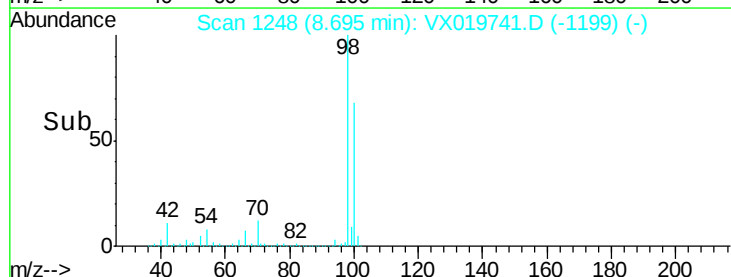
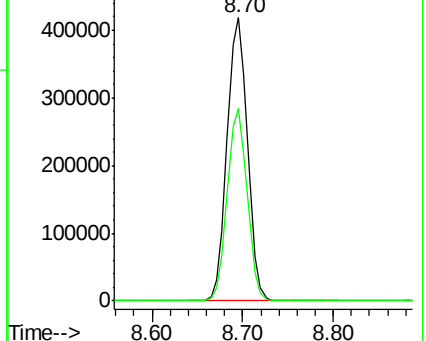
98 100

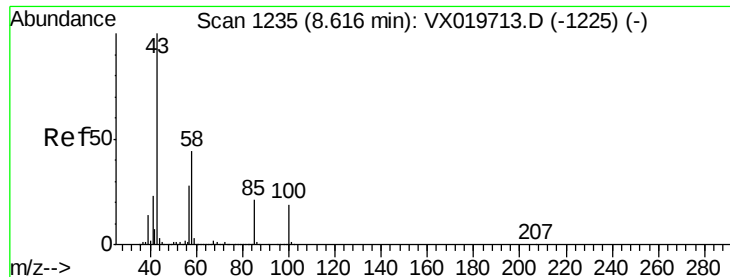
100 66.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.367 ug/l

RT: 8.62 min Scan# 1235

Delta R.T. -0.00 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

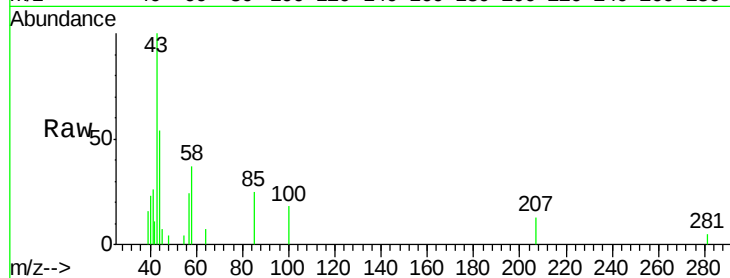
ID039-39MWE2S-120320

Tot Ion: 43 Resp: 1819

Ion Ratio Lower Upper

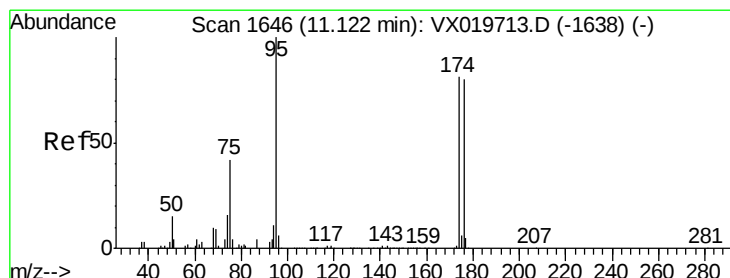
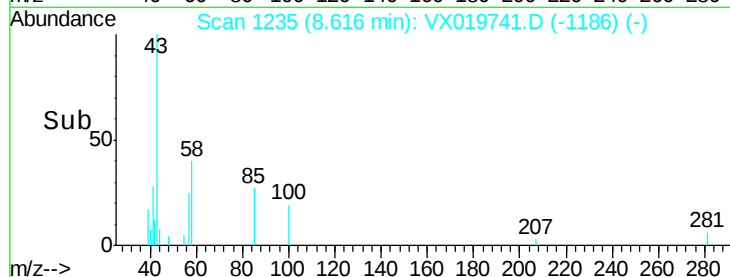
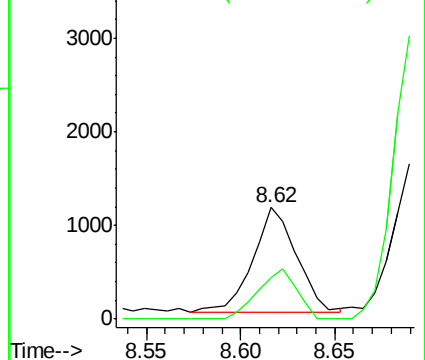
43 100

58 41.9 35.4 53.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.085 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

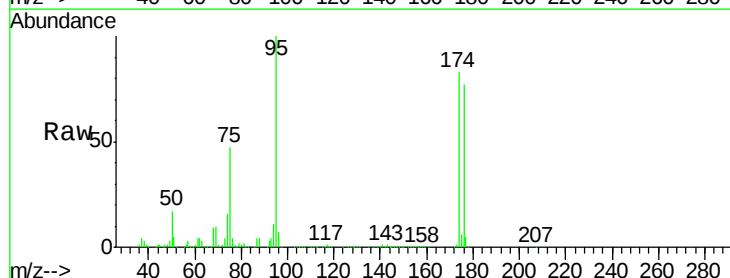
Tgt Ion: 95 Resp: 231931

Ion Ratio Lower Upper

95 100

174 78.6 0.0 154.6

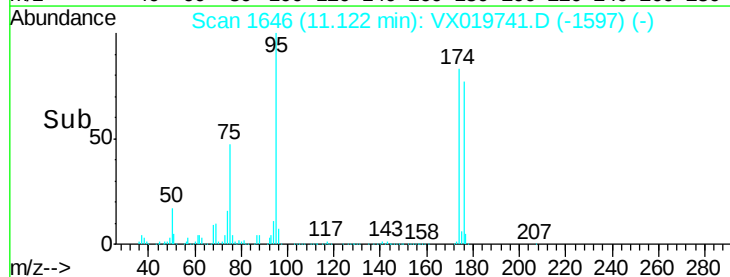
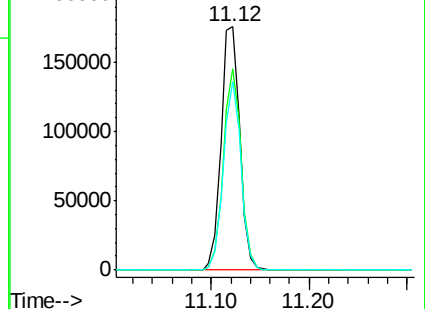
176 73.3 0.0 155.8

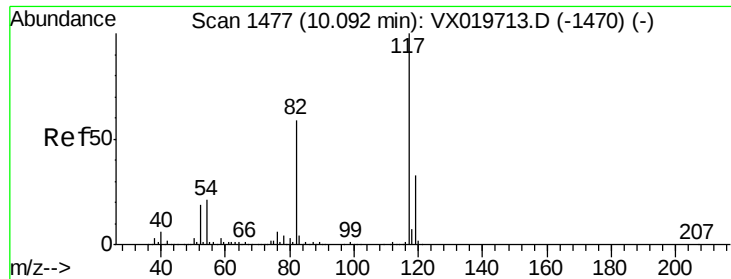


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

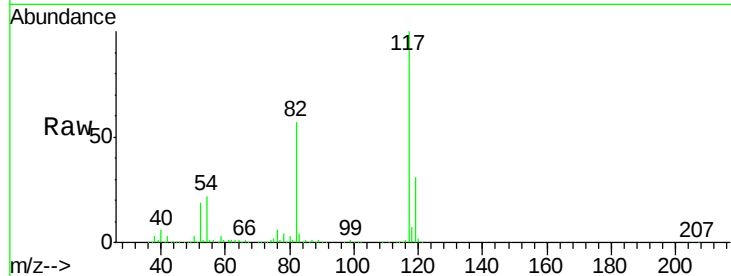




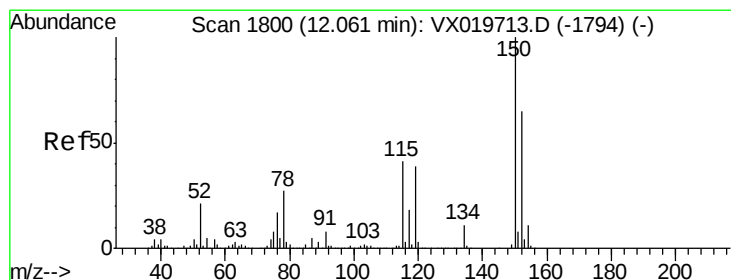
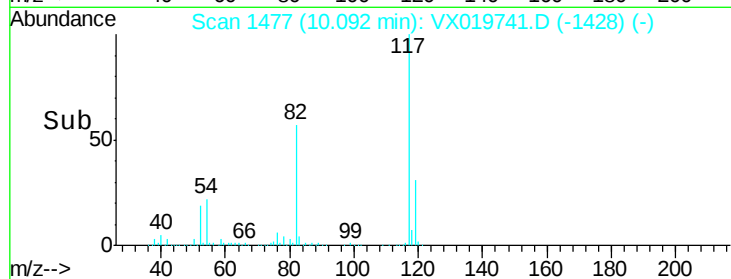
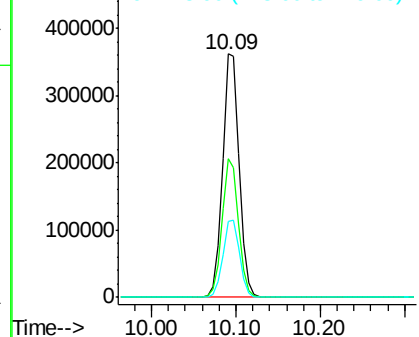
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. -0.00 min
Lab File: VX019741.D
Acq: 05 Dec 2020 00:43

Instrument :
MSVOA_X
ClientSampleId :
ID039-39MWE2S-120320

Tot Ion:117 Resp: 493422
Ion Ratio Lower Upper
117 100
82 57.2 47.4 71.2
119 30.9 26.6 39.8

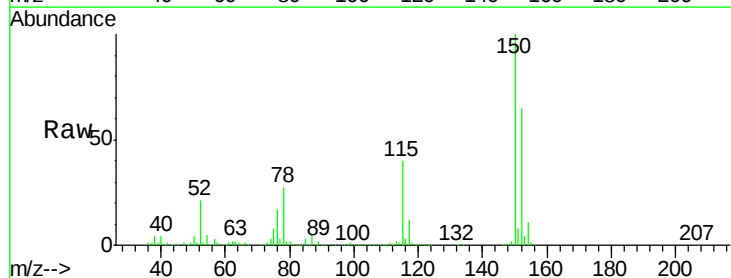


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

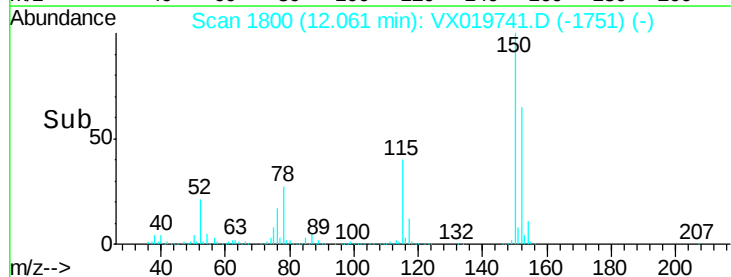
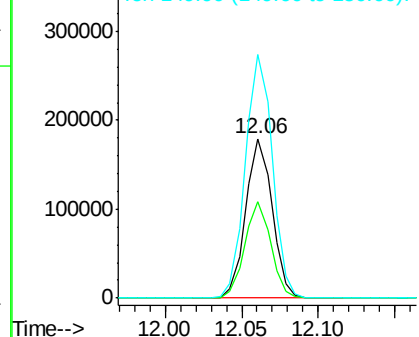


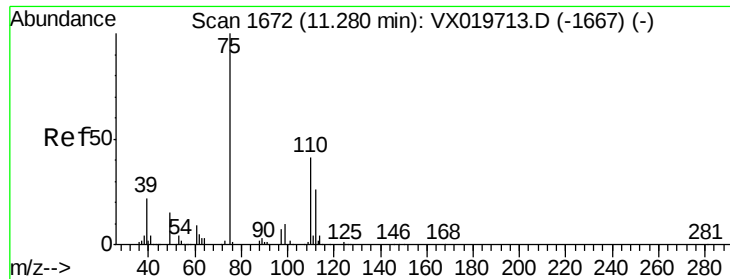
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019741.D
Acq: 05 Dec 2020 00:43

Tgt Ion:152 Resp: 214827
Ion Ratio Lower Upper
152 100
115 59.8 41.1 123.3
150 156.6 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.190 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

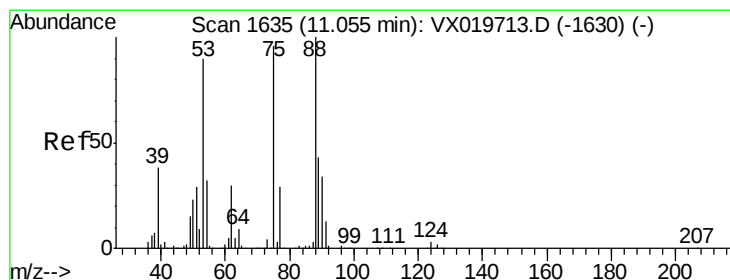
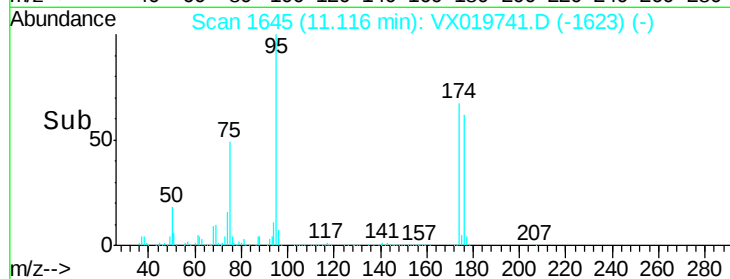
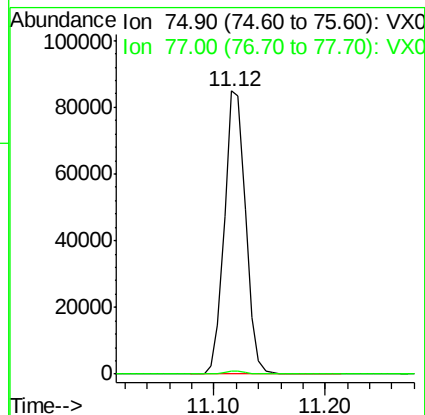
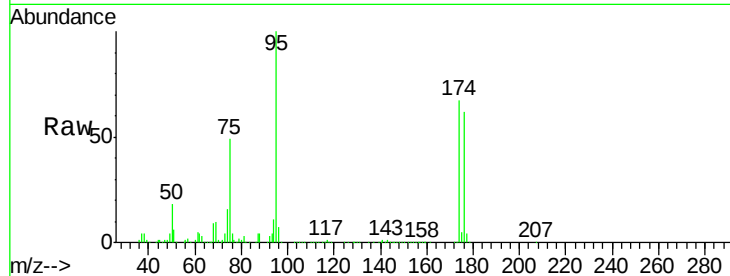
ID039-39MWE2S-120320

Tot Ion: 75 Resp: 111736

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.039 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

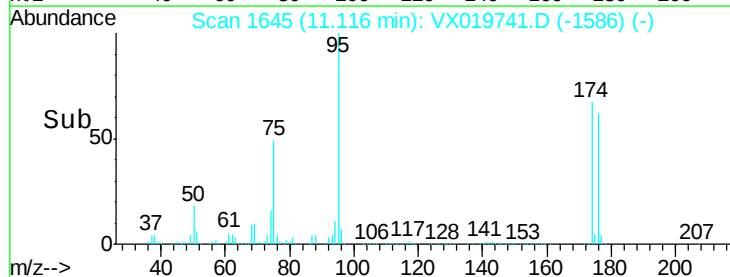
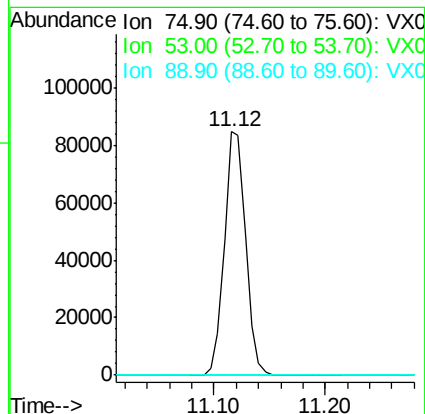
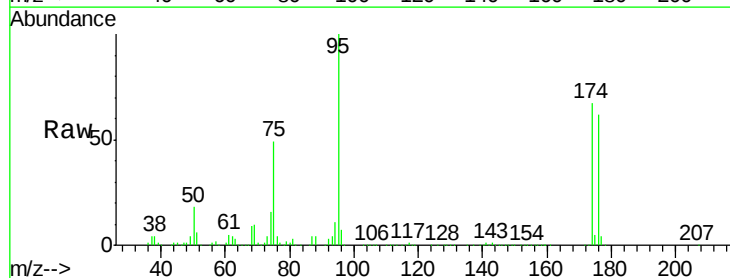
Tgt Ion: 75 Resp: 111736

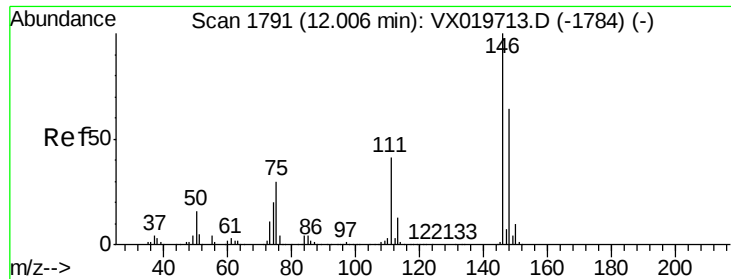
Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

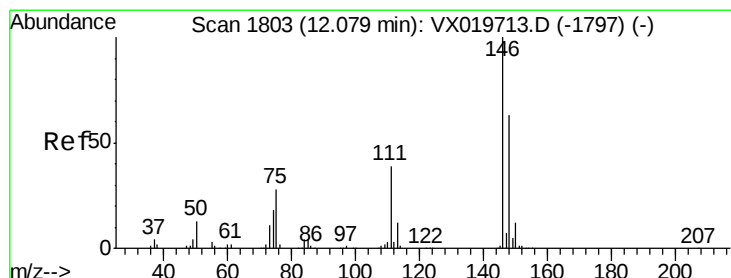
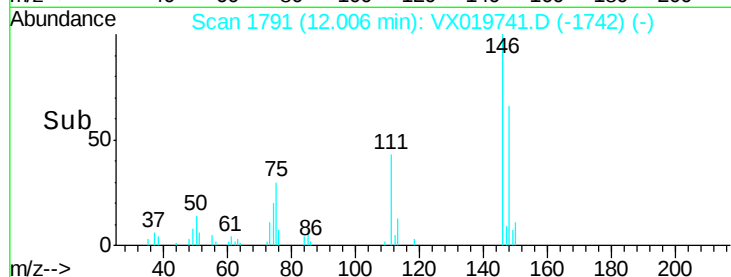
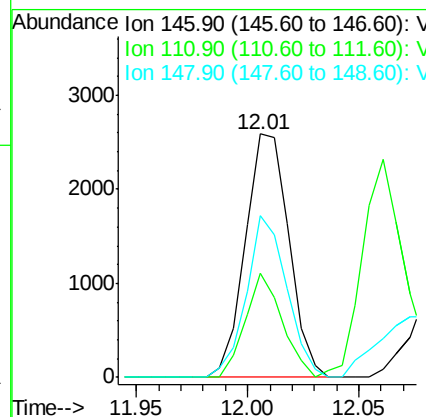
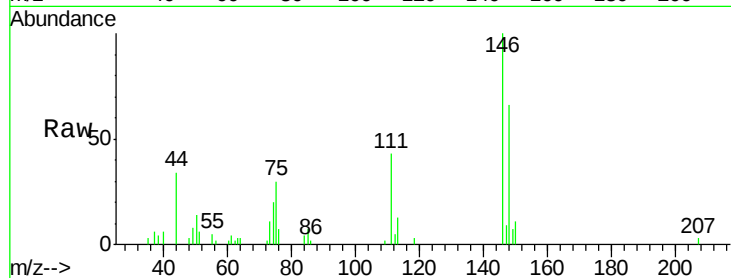




#87
 1,3-Dichlorobenzene
 Concen: 0.512 ug/l
 RT: 12.01 min Scan# 1791
 Delta R.T. -0.00 min
 Lab File: VX019741.D
 Acq: 05 Dec 2020 00:43

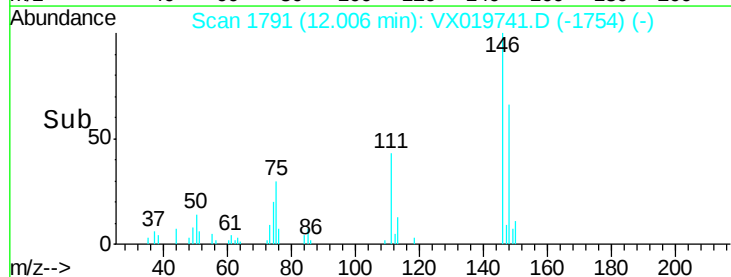
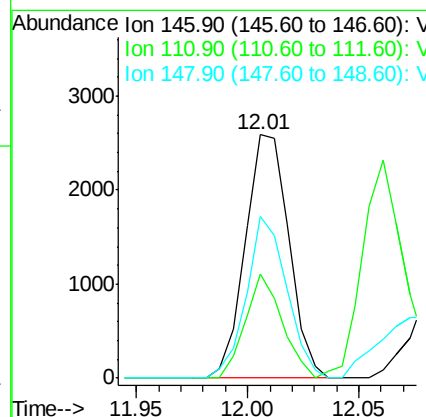
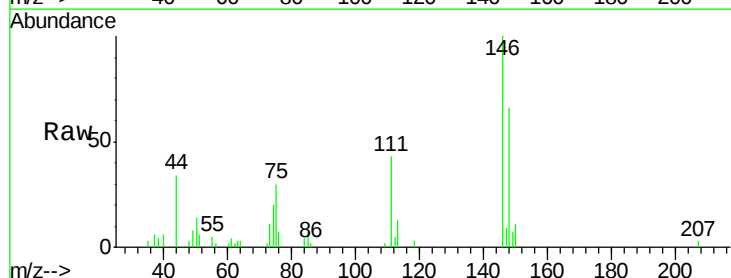
Instrument :
 MSVOA_X
 ClientSampleId :
 ID039-39MWE2S-120320

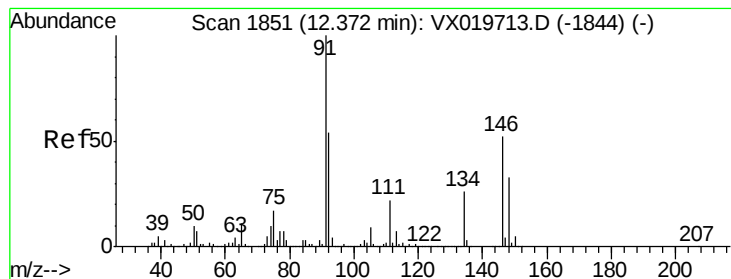
Tot Ion:146 Resp: 3532
 Ion Ratio Lower Upper
 146 100
 111 36.2 20.2 60.5
 148 61.6 31.9 95.7



#88
 1,4-Dichlorobenzene
 Concen: 0.503 ug/l
 RT: 12.01 min Scan# 1791
 Delta R.T. -0.07 min
 Lab File: VX019741.D
 Acq: 05 Dec 2020 00:43

Tgt Ion:146 Resp: 3532
 Ion Ratio Lower Upper
 146 100
 111 36.2 19.6 58.8
 148 61.6 31.6 95.0





#91

1,2-Dichlorobenzene

Concen: 7.128 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. 0.01 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

ID039-39MWE2S-120320

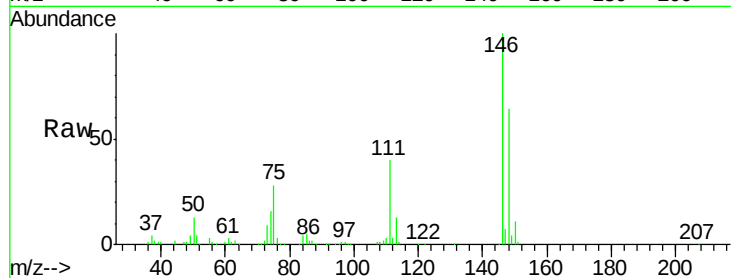
Tot Ion:146 Resp: 47899

Ion Ratio Lower Upper

146 100

111 42.4 20.8 62.2

148 64.4 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

