

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN060820\
 Data File : VN061696.D
 Acq On : 8 Jun 2020 15:21
 Operator : JC/MD
 Sample : L2890-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CHRT-26160

Quant Time: Jun 09 03:12:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	315055	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	532117	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	533480	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	238335	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	176977	47.15	ug/l	0.00
Spiked Amount			Recovery	=	94.30%	
35) Dibromofluoromethane	7.55	113	153907	57.02	ug/l	0.00
Spiked Amount			Recovery	=	114.04%	
50) Toluene-d8	10.06	98	651592	52.09	ug/l	0.00
Spiked Amount			Recovery	=	104.18%	
62) 4-Bromofluorobenzene	12.38	95	230529	50.51	ug/l	0.00
Spiked Amount			Recovery	=	101.02%	

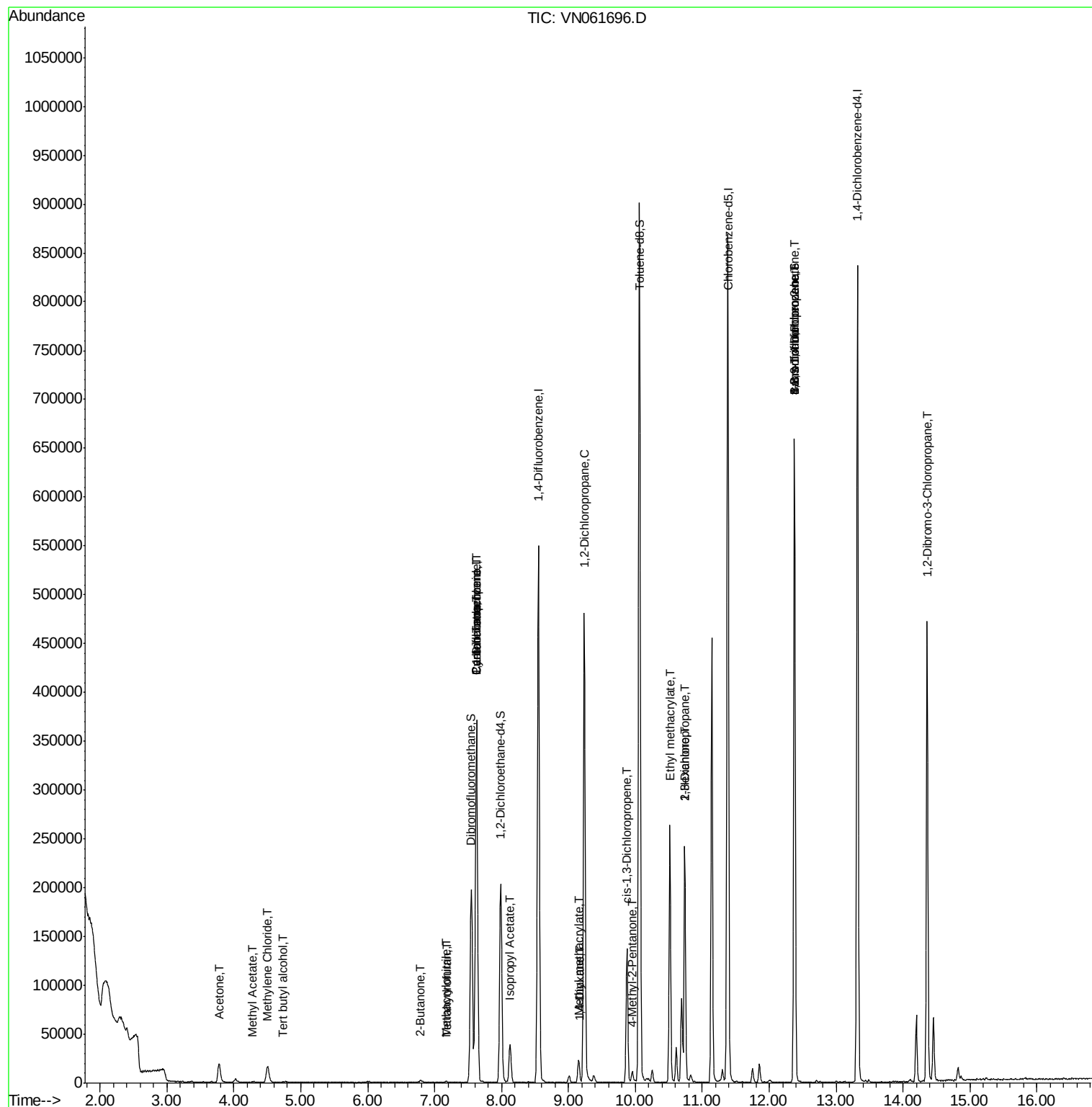
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	129	0.26	ug/l #	72
16) Acetone	3.78	43	32639	25.99	ug/l	97
18) Methyl Acetate	4.27	43	772	0.23	ug/l #	79
20) Methylene Chloride	4.50	84	13815	2.39	ug/l	88
25) 2-Butanone	6.79	43	2513	1.41	ug/l	96
29) Tetrahydrofuran	7.18	42	499	0.43	ug/l #	71
31) Cyclohexane	7.63	56	5747	1.09	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	21473	4.56	ug/l #	45
38) Carbon Tetrachloride	7.62	117	31186	6.86	ug/l #	16
41) Methacrylonitrile	7.17	41	360	0.21	ug/l #	22
43) Isopropyl Acetate	8.13	43	44277	6.49	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	716	0.21	ug/l #	44
48) Methyl methacrylate	9.15	41	2686	0.87	ug/l #	5
49) 1,4-Dioxane	9.17	88	138	2.90	ug/l #	29
51) 4-Methyl-2-Pentanone	9.95	43	6495	1.69	ug/l	89
54) cis-1,3-Dichloropropene	9.88	75	28383	4.67	ug/l #	63
56) Ethyl methacrylate	10.52	69	1079	0.20	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	2417	0.40	ug/l #	42
59) 2-Hexanone	10.74	43	29538	10.69	ug/l #	51
71) Bromoform	12.38	173	1661	0.52	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	112046	25.85	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	112046	66.11	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.35	75	350	0.35	ug/l #	1

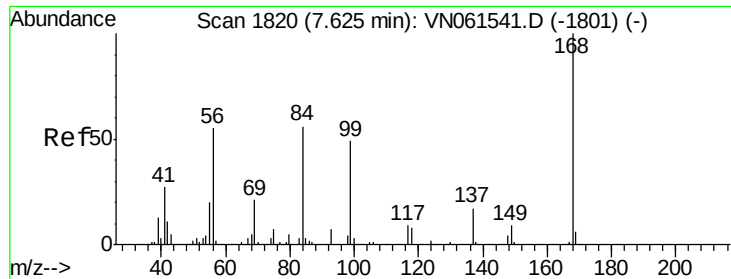
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 29 02:14:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061696.D

Acq: 8 Jun 2020 15:21

Instrument :

MSVOA_N

ClientSampleId :

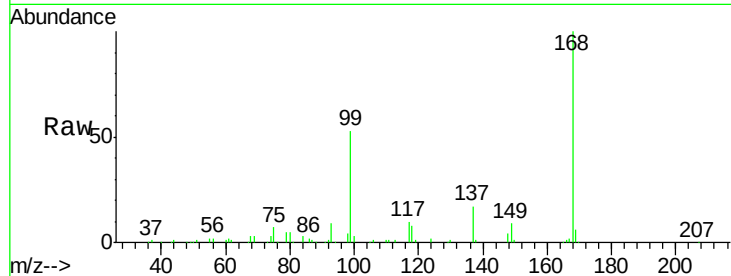
CHRT-26160

Tgt Ion:168 Resp: 315055

Ion Ratio Lower Upper

168 100

99 53.3 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

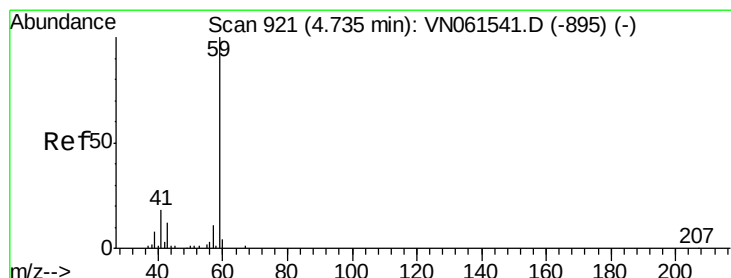
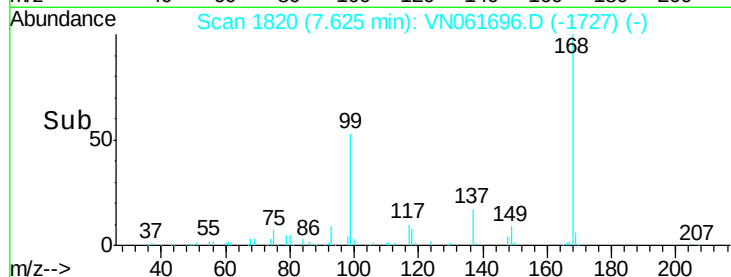
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.26 ug/l

RT: 4.73 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN061696.D

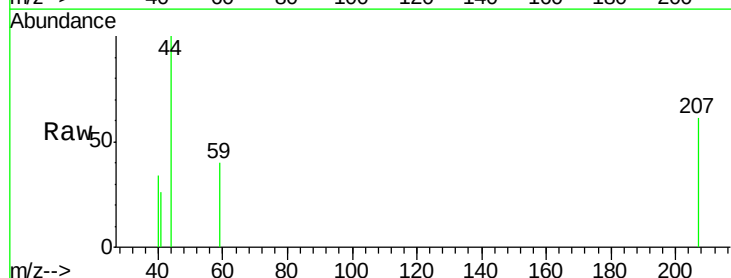
Acq: 8 Jun 2020 15:21

Tgt Ion: 59 Resp: 129

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.73

250

200

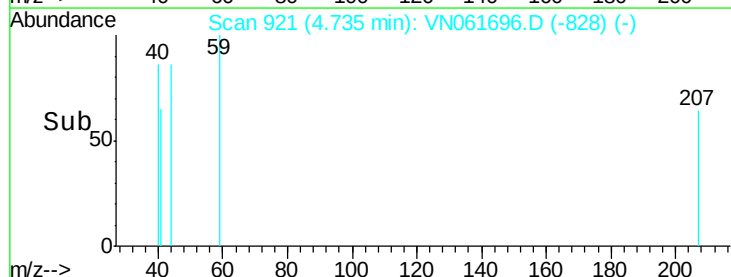
150

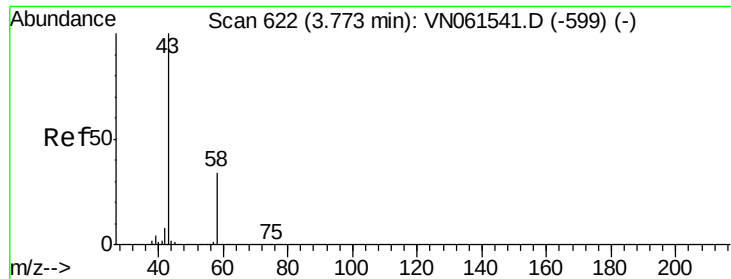
100

50

0

Time--> 4.73 4.74 4.75

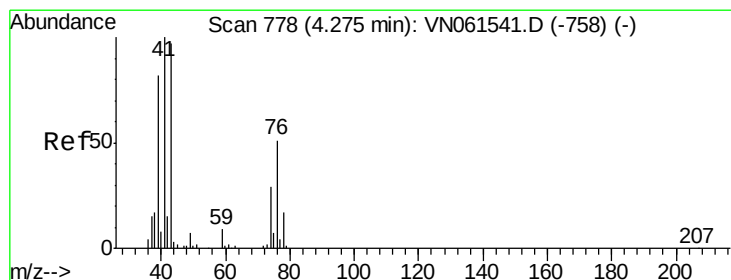
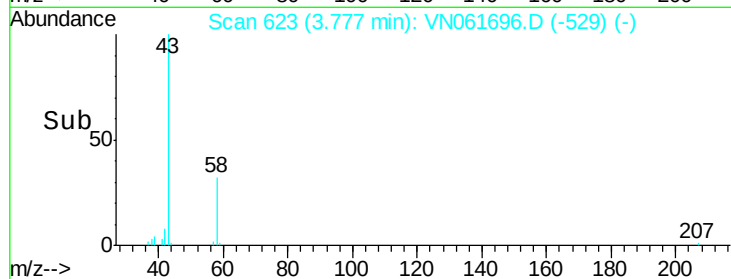
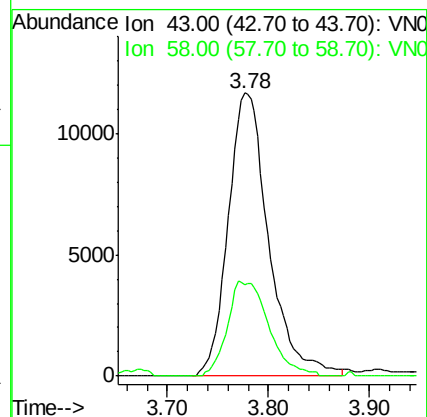
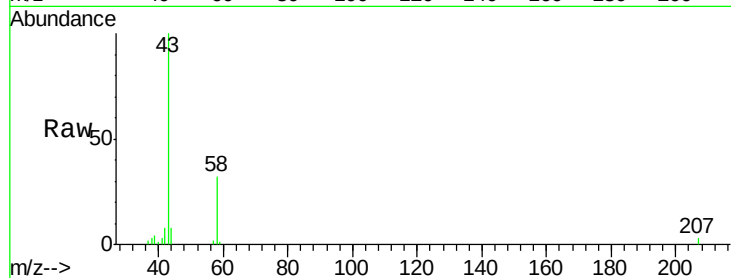




#16
Acetone
Concen: 25.99 ug/l
RT: 3.78 min Scan# 623
Delta R.T. 0.00 min
Lab File: VN061696.D
Acq: 8 Jun 2020 15:21

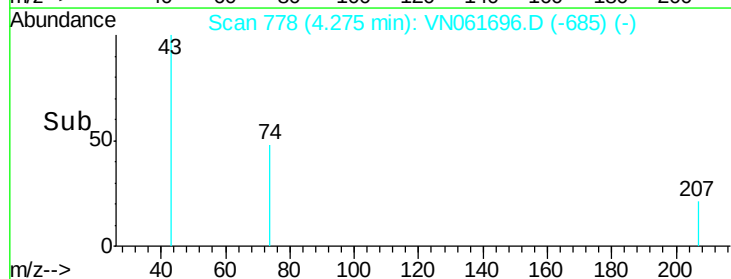
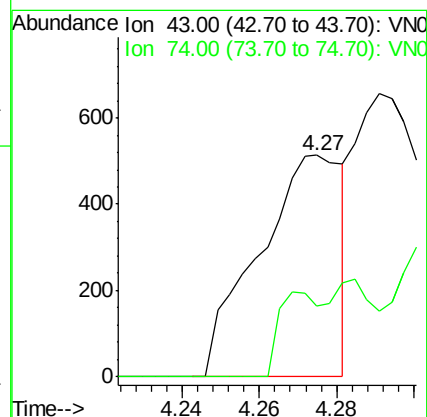
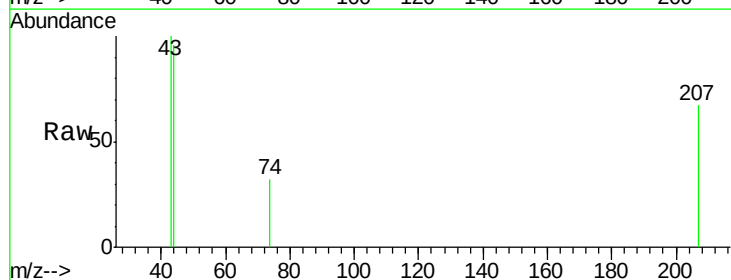
Instrument :
MSVOA_N
ClientSampled :
CHRT-26160

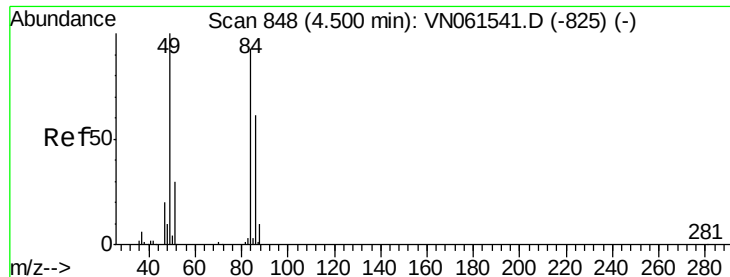
Tgt Ion: 43 Resp: 32639
Ion Ratio Lower Upper
43 100
58 32.4 27.2 40.8



#18
Methyl Acetate
Concen: 0.23 ug/l
RT: 4.27 min Scan# 778
Delta R.T. 0.00 min
Lab File: VN061696.D
Acq: 8 Jun 2020 15:21

Tgt Ion: 43 Resp: 772
Ion Ratio Lower Upper
43 100
74 17.9 23.2 34.8#

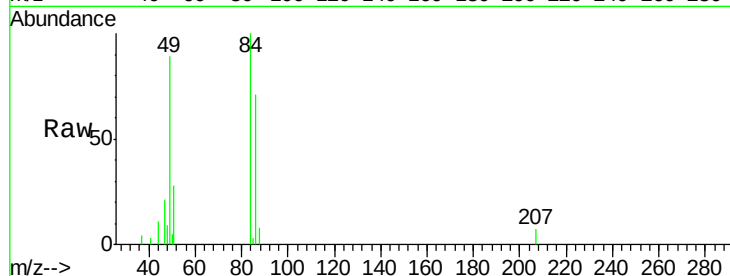




#20
Methylene Chloride
Concen: 2.39 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN061696.D
Acq: 8 Jun 2020 15:21

Instrument :
MSVOA_N
ClientSampleId :
CHRT-26160

Tgt Ion:	84	Resp:	13815
Ion	Ratio	Lower	Upper
84	100		
49	89.4	85.8	128.8
51	28.5	26.2	39.2
86	70.8	52.6	78.8

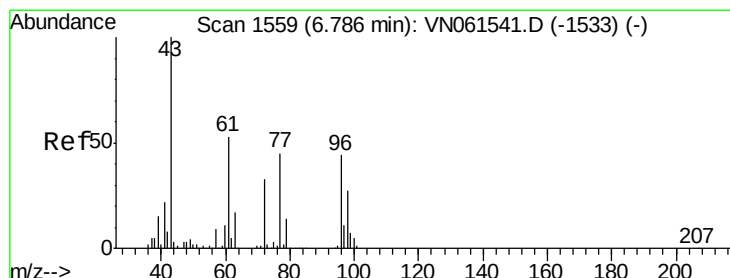
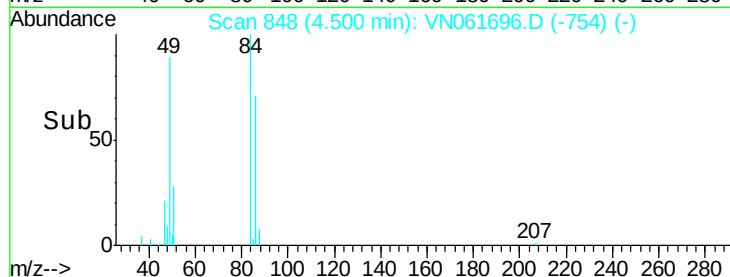
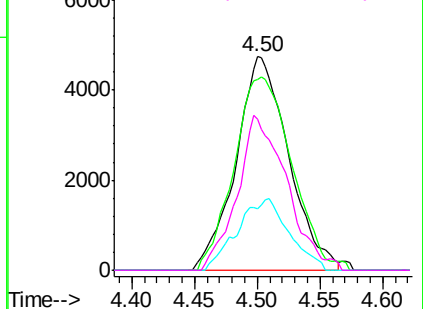


Abundance Ion 83.90 (83.60 to 84.60): VN061696.D (-754) (-)

Ion 48.90 (48.60 to 49.60): VN061696.D (-754) (-)

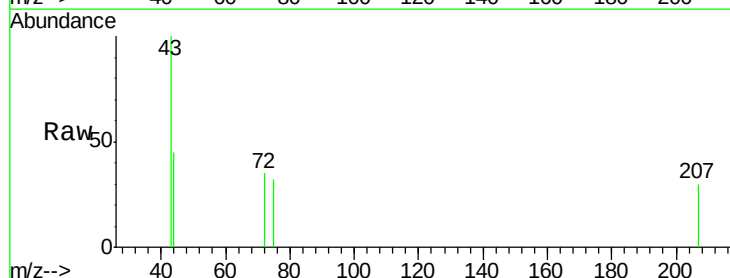
Ion 50.90 (50.60 to 51.60): VN061696.D (-754) (-)

Ion 85.90 (85.60 to 86.60): VN061696.D (-754) (-)



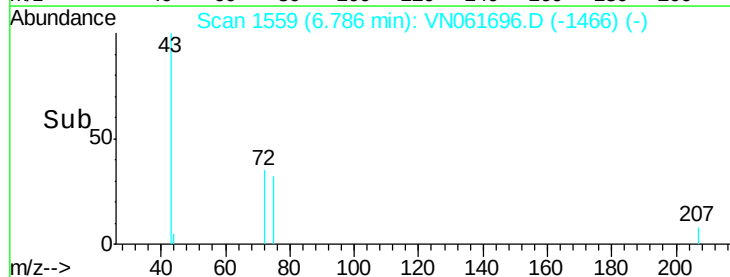
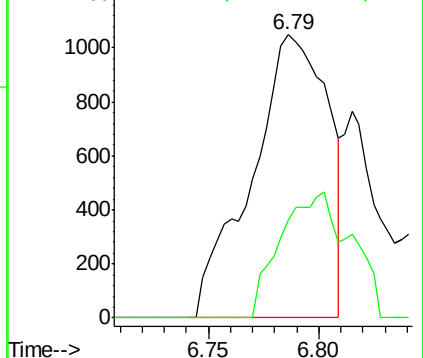
#25
2-Butanone
Concen: 1.41 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. 0.00 min
Lab File: VN061696.D
Acq: 8 Jun 2020 15:21

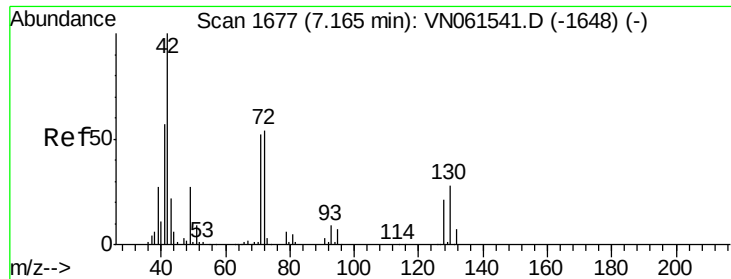
Tgt Ion:	43	Resp:	2513
Ion	Ratio	Lower	Upper
43	100		
72	34.5	26.0	39.0



Abundance Ion 43.00 (42.70 to 43.70): VN061696.D (-1466) (-)

Ion 72.00 (71.70 to 72.70): VN061696.D (-1466) (-)

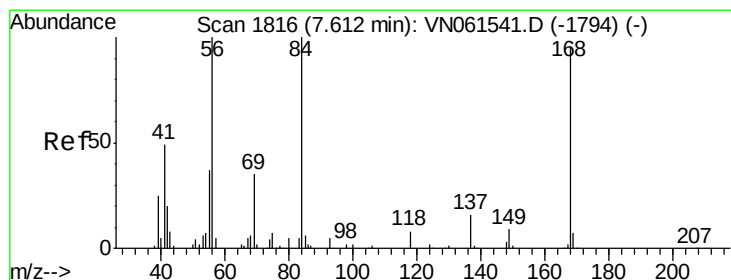
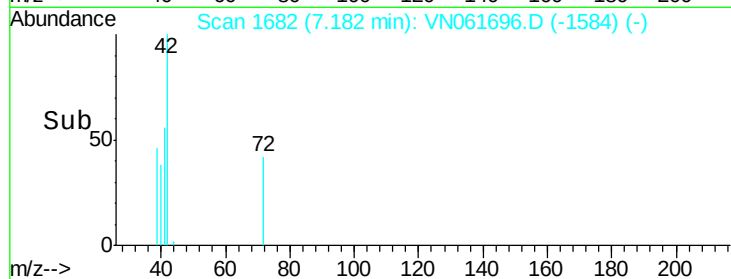
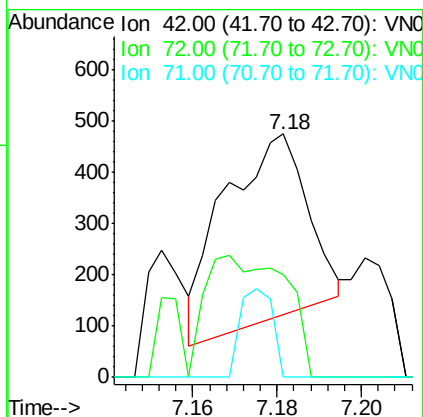
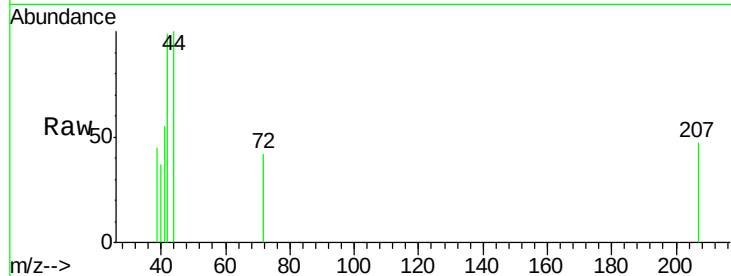




#29
Tetrahydrofuran
Concen: 0.43 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.02 min
Lab File: VN061696.D
Acq: 8 Jun 2020 15:21

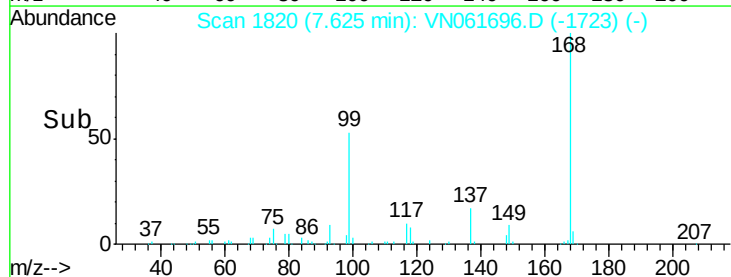
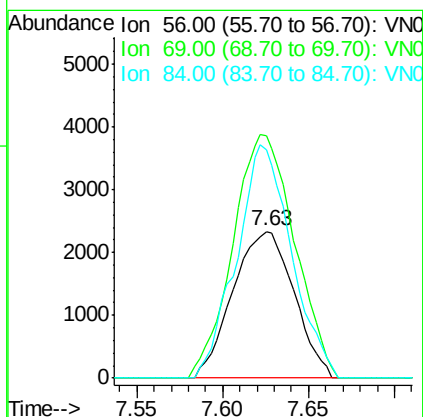
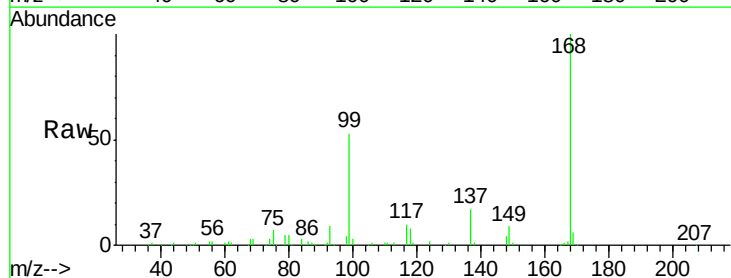
Instrument :
MSVOA_N
ClientSampled :
CHRT-26160

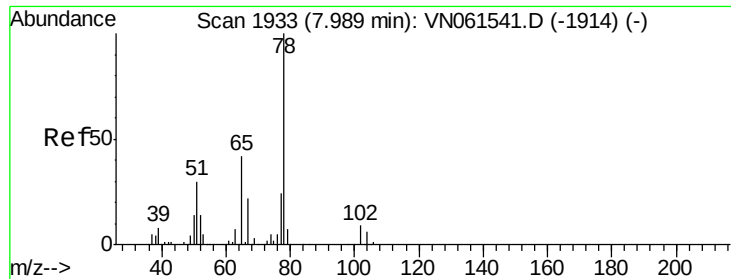
Tgt Ion: 42 Resp: 499
Ion Ratio Lower Upper
42 100
72 62.9 43.6 65.4
71 18.6 41.2 61.8#



#31
Cyclohexane
Concen: 1.09 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061696.D
Acq: 8 Jun 2020 15:21

Tgt Ion: 56 Resp: 5747
Ion Ratio Lower Upper
56 100
69 164.9 27.8 41.8#
84 155.5 79.9 119.9#

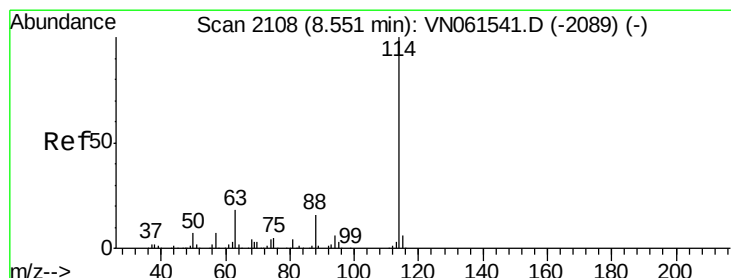
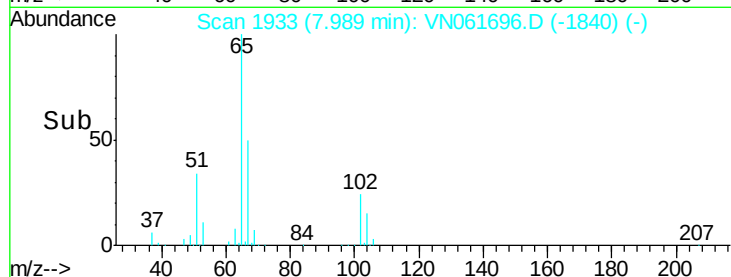
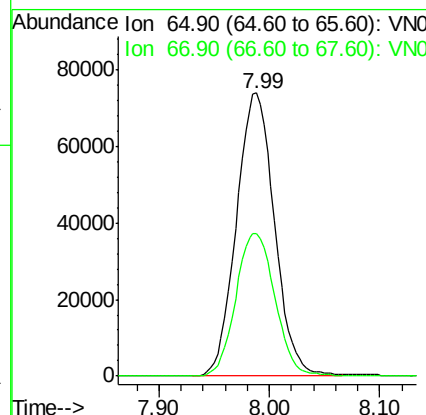
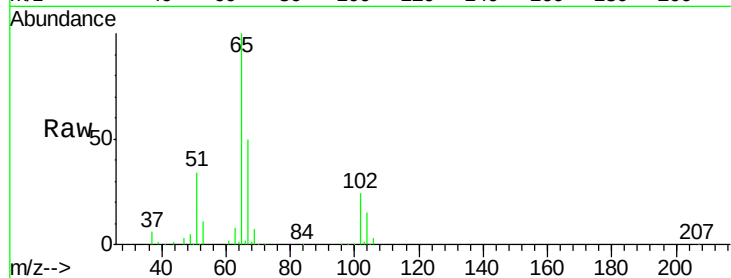




#33
 1,2-Dichloroethane-d4
 Concen: 47.15 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061696.D
 Acq: 8 Jun 2020 15:21

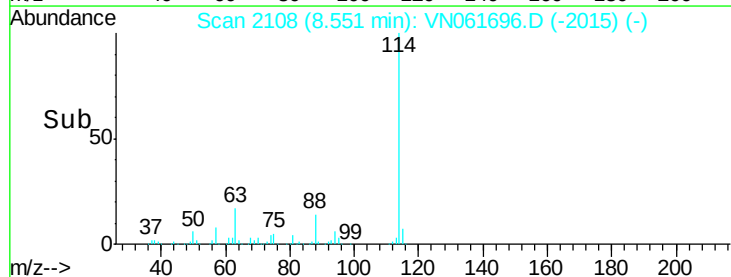
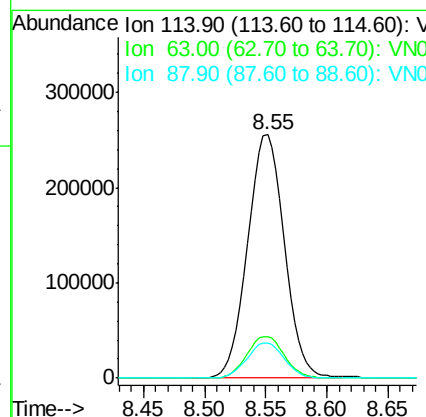
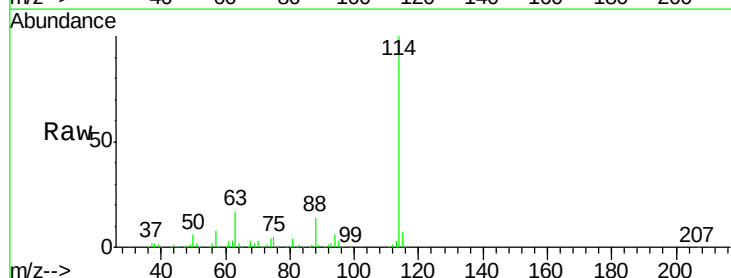
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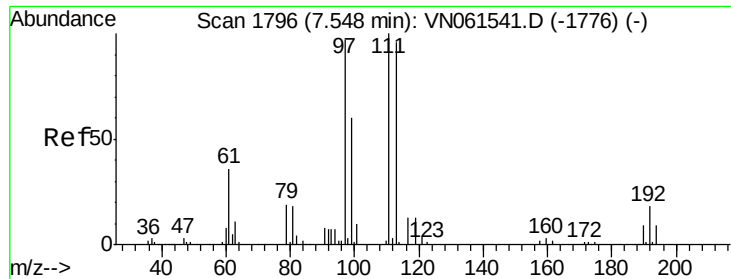
Tgt Ion: 65 Resp: 176977
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061696.D
 Acq: 8 Jun 2020 15:21

Tgt Ion: 114 Resp: 532117
 Ion Ratio Lower Upper
 114 100
 63 17.0 0.0 35.8
 88 14.2 0.0 31.0

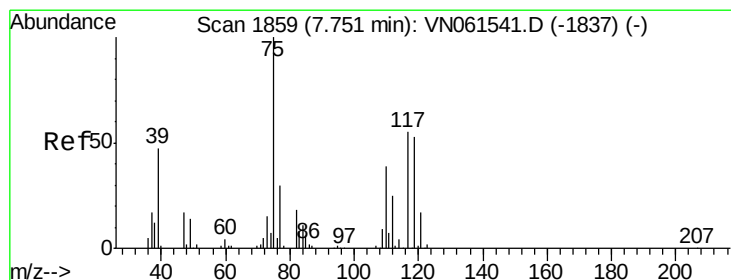
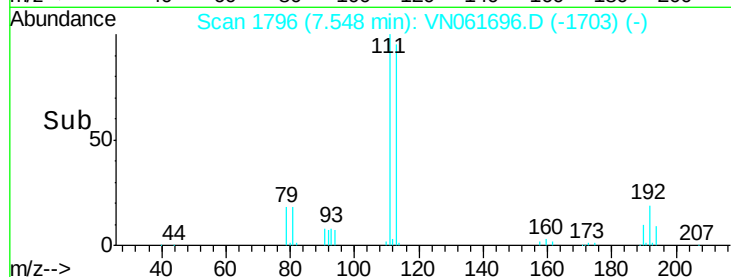
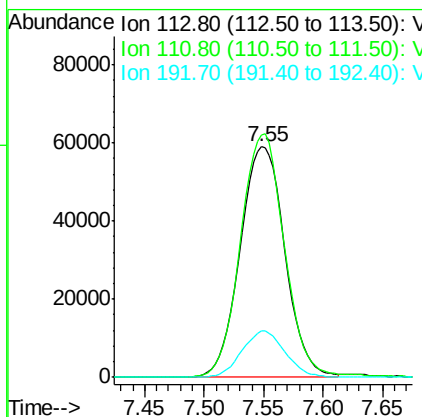
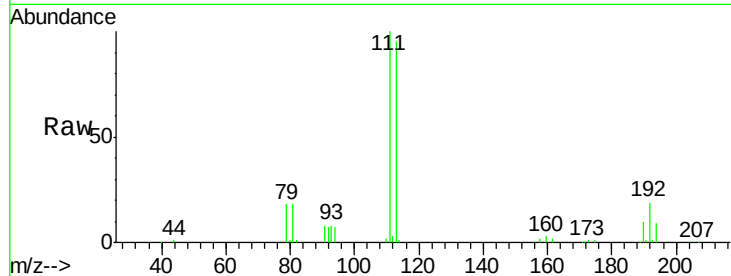




#35
 Dibromofluoromethane
 Concen: 57.02 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061696.D
 Acq: 8 Jun 2020 15:21

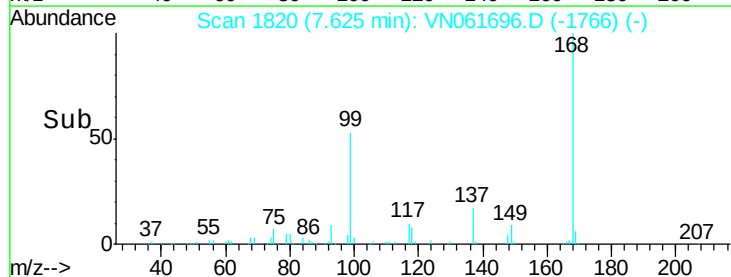
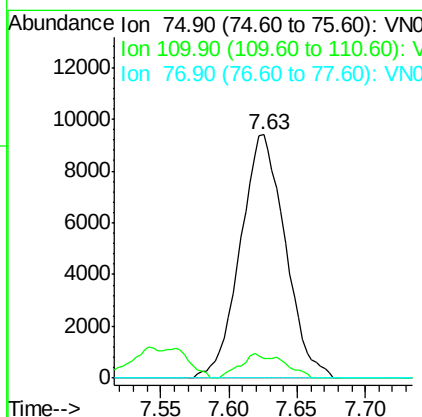
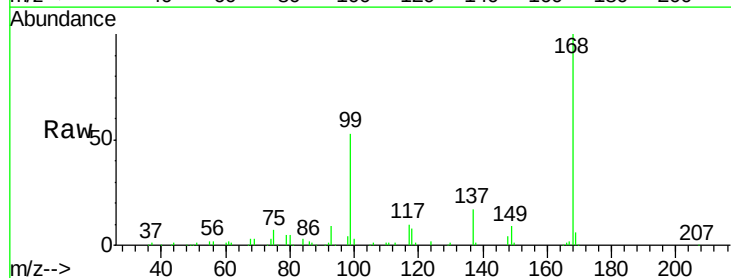
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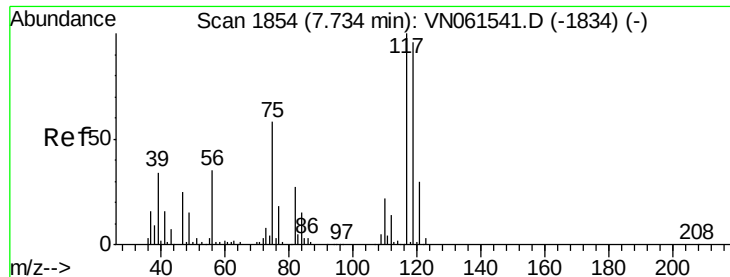
Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.3	83.4	125.0
192	19.3	15.4	23.2



#36
 1,1-Dichloropropene
 Concen: 4.56 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061696.D
 Acq: 8 Jun 2020 15:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.9	19.5	58.5#
77	0.0	24.7	37.1#

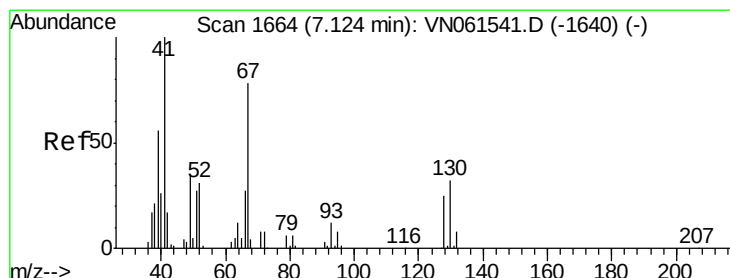
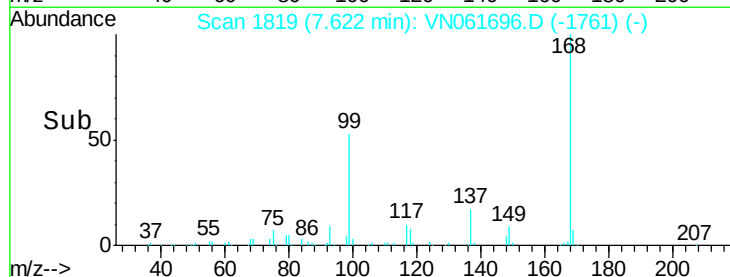
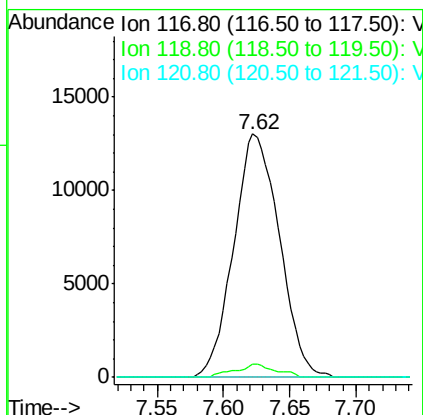
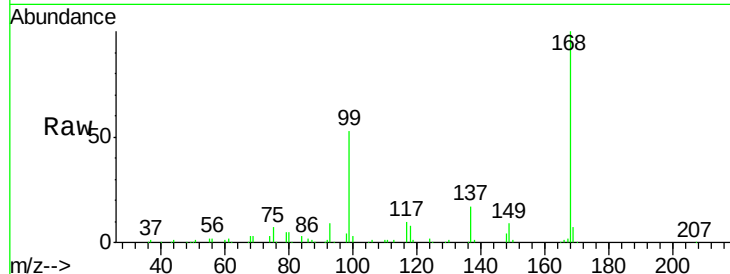




#38
Carbon Tetrachloride
Concen: 6.86 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. -0.11 min
Lab File: VN061696.D
Acq: 8 Jun 2020 15:21

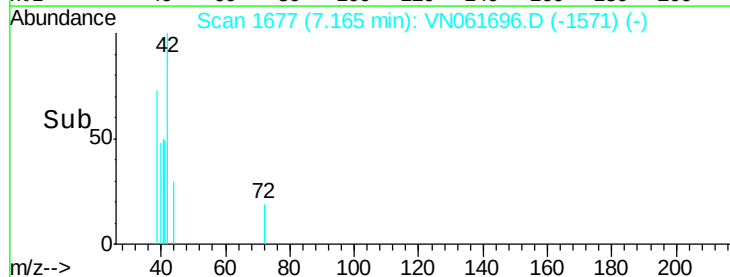
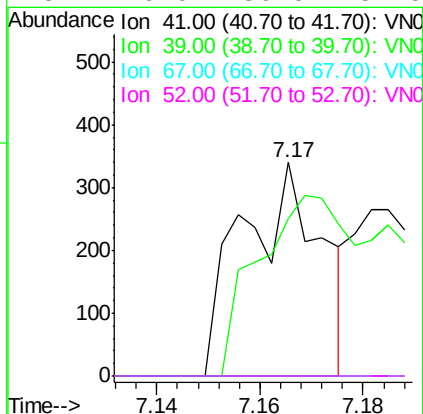
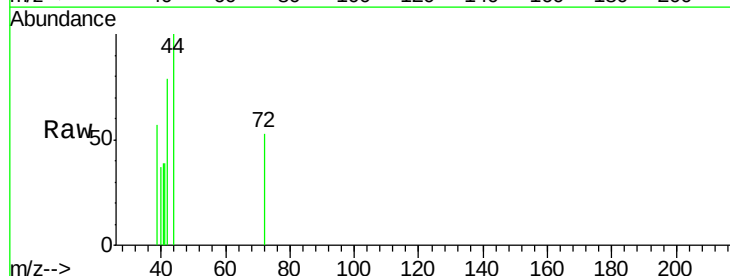
Instrument :
MSVOA_N
ClientSampled :
CHRT-26160

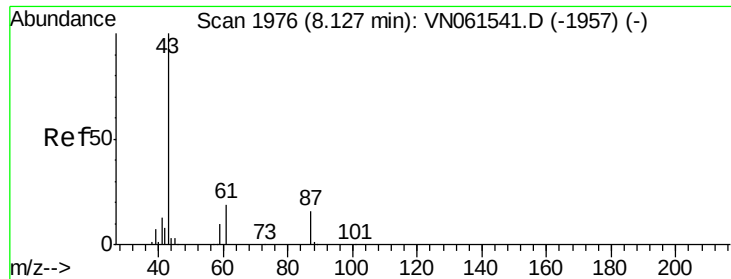
Tgt Ion:117 Resp: 31186
Ion Ratio Lower Upper
117 100
119 5.3 76.5 114.7#
121 0.0 24.1 36.1#



#41
Methacrylonitrile
Concen: 0.21 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. 0.04 min
Lab File: VN061696.D
Acq: 8 Jun 2020 15:21

Tgt Ion: 41 Resp: 360
Ion Ratio Lower Upper
41 100
39 97.2 53.8 80.6#
67 0.0 91.1 136.7#
52 0.0 36.0 54.0#





#43

Isopropyl Acetate

Concen: 6.49 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061696.D

Acq: 8 Jun 2020 15:21

Instrument :

MSVOA_N

ClientSampleId :

CHRT-26160

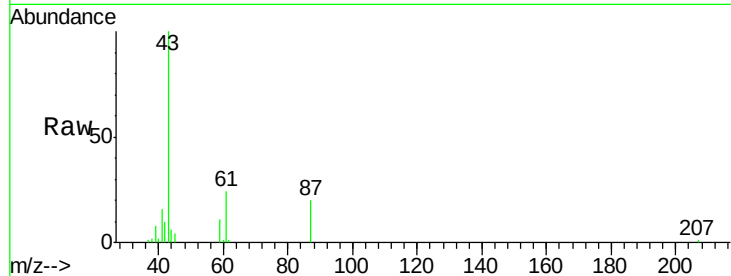
Tgt Ion: 43 Resp: 44277

Ion Ratio Lower Upper

43 100

61 22.2 23.6 35.4#

87 17.6 13.0 19.6



Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-1957) (-)

Ion 61.00 (60.70 to 61.70): VN061541.D (-1957) (-)

Ion 87.00 (86.70 to 87.70): VN061541.D (-1957) (-)

8.13

25000

20000

15000

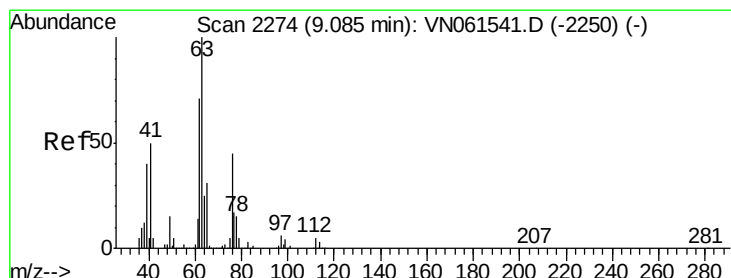
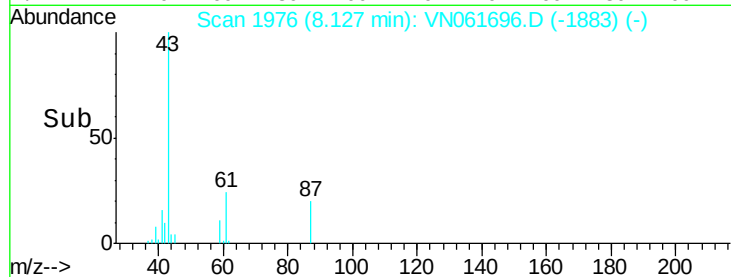
10000

5000

0

8.05 8.10 8.15 8.20

Time-->



#45

1,2-Dichloropropane

Concen: 0.21 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN061696.D

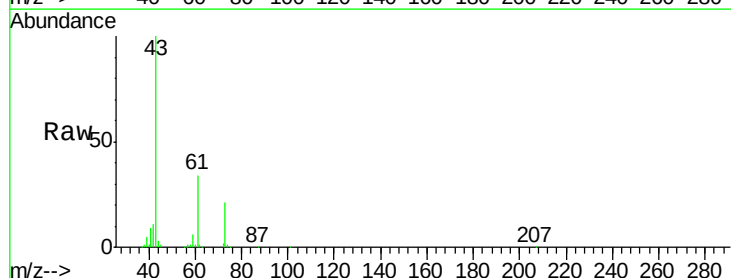
Acq: 8 Jun 2020 15:21

Tgt Ion: 63 Resp: 716

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN061541.D (-2250) (-)

Ion 64.90 (64.60 to 65.60): VN061541.D (-2250) (-)

9.23

600

500

400

300

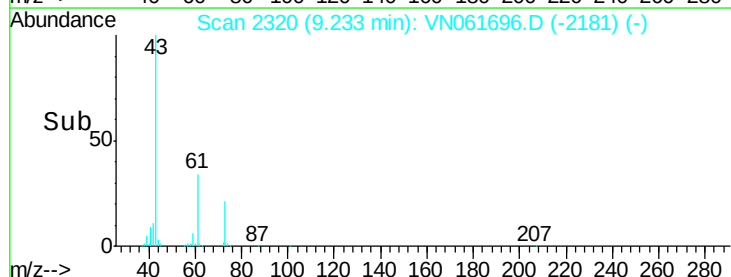
200

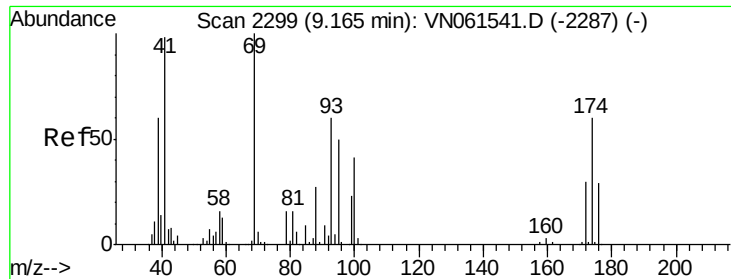
100

0

9.20 9.22 9.24 9.26

Time-->

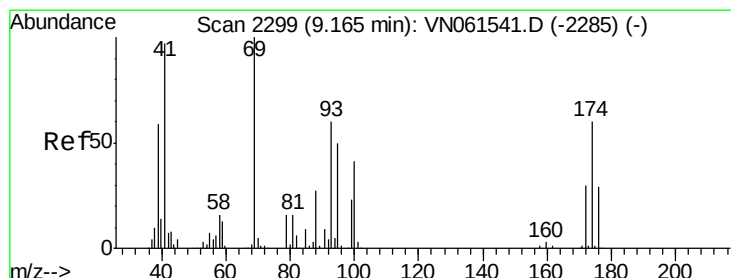
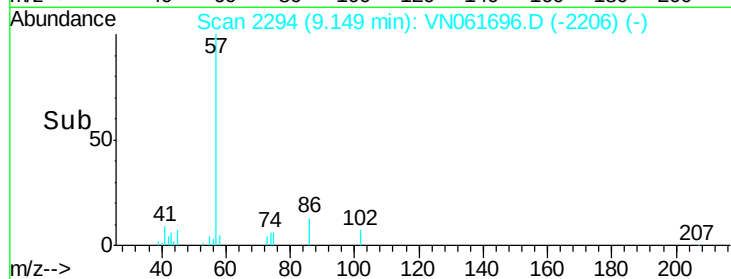
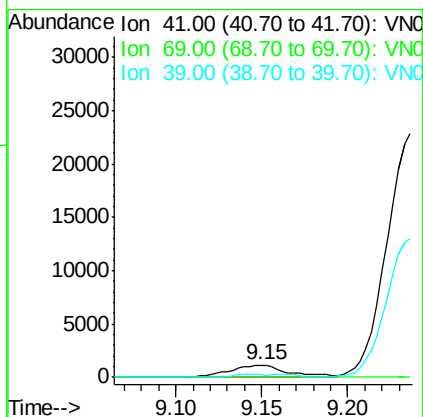
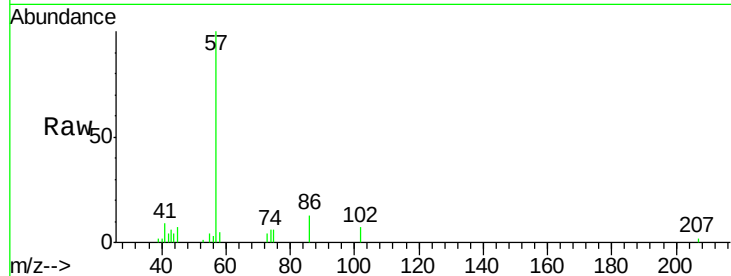




#48
Methyl methacrylate
Concen: 0.87 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN061696.D
Acq: 8 Jun 2020 15:21

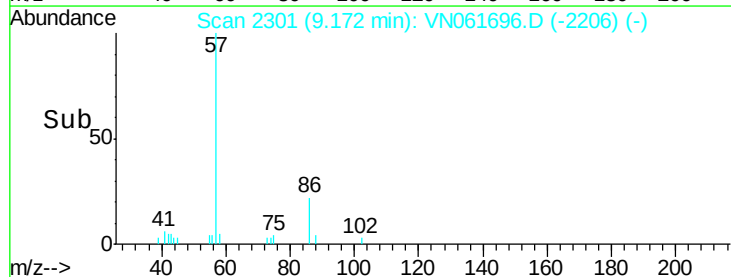
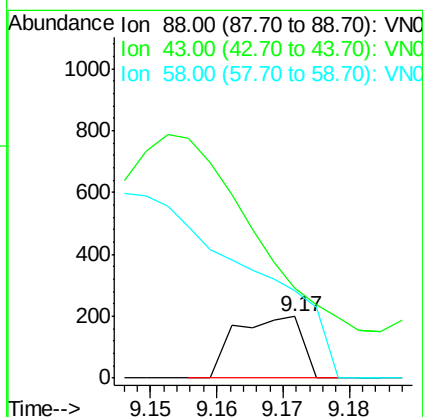
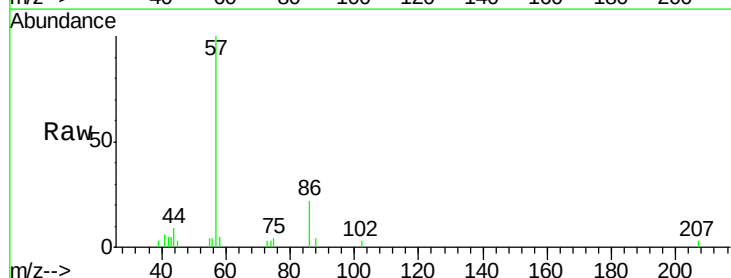
Instrument :
MSVOA_N
ClientSampled :
CHRT-26160

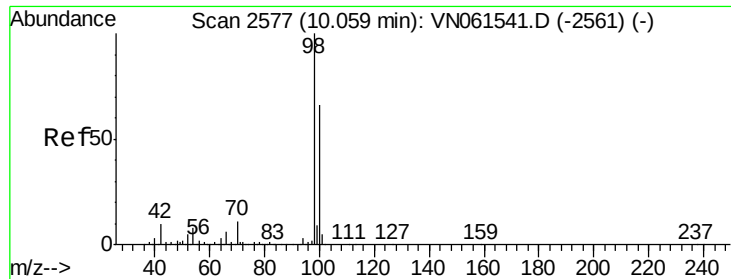
Tgt Ion: 41 Resp: 2686
Ion Ratio Lower Upper
41 100
69 0.0 83.9 125.9#
39 0.0 52.1 78.1#



#49
1,4-Dioxane
Concen: 2.90 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. 0.01 min
Lab File: VN061696.D
Acq: 8 Jun 2020 15:21

Tgt Ion: 88 Resp: 138
Ion Ratio Lower Upper
88 100
43 0.0 23.1 34.7#
58 0.0 48.3 72.5#





#50

Toluene-d8

Concen: 52.09 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061696.D

Acq: 8 Jun 2020 15:21

Instrument :

MSVOA_N

ClientSampled :

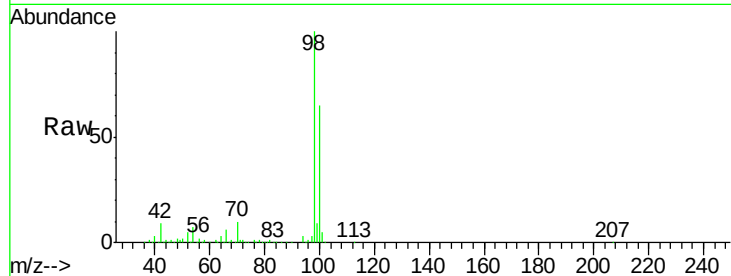
CHRT-26160

Tgt Ion: 98 Resp: 651592

Ion Ratio Lower Upper

98 100

100 65.6 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061541.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061541.D (-2561) (-)

10.06

400000

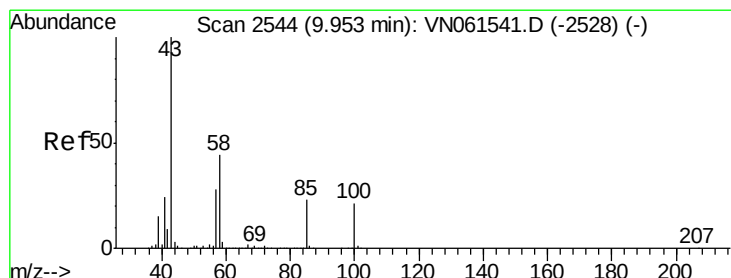
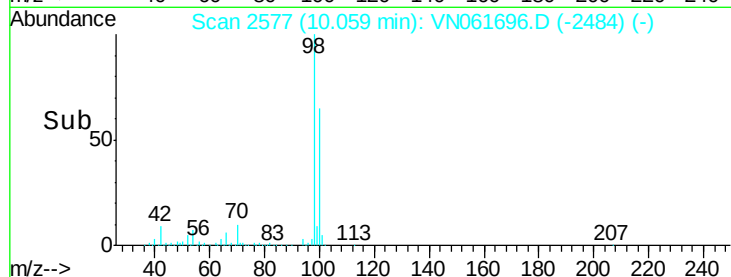
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.69 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061696.D

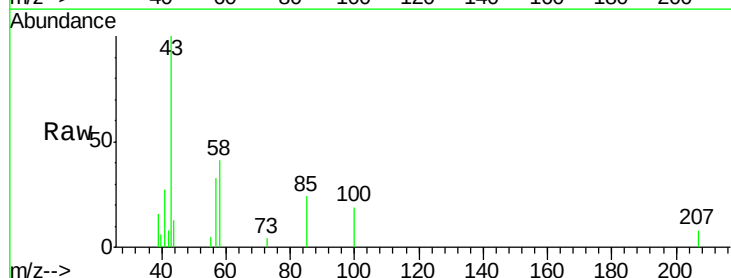
Acq: 8 Jun 2020 15:21

Tgt Ion: 43 Resp: 6495

Ion Ratio Lower Upper

43 100

58 50.7 35.0 52.6



Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-2528) (-)

Ion 58.00 (57.70 to 58.70): VN061541.D (-2528) (-)

12000

10000

8000

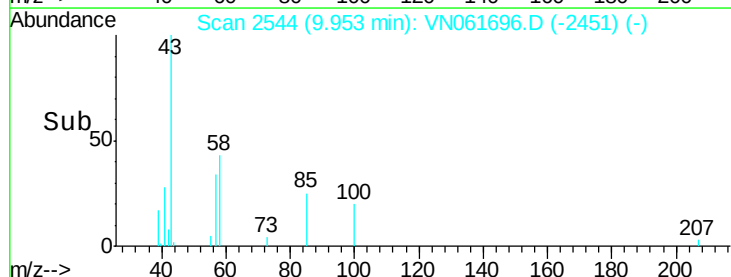
6000

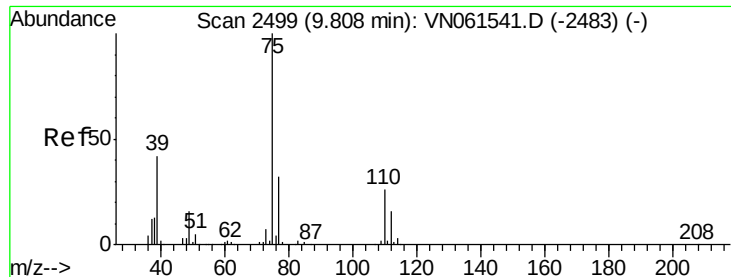
4000

2000

0

Time-->

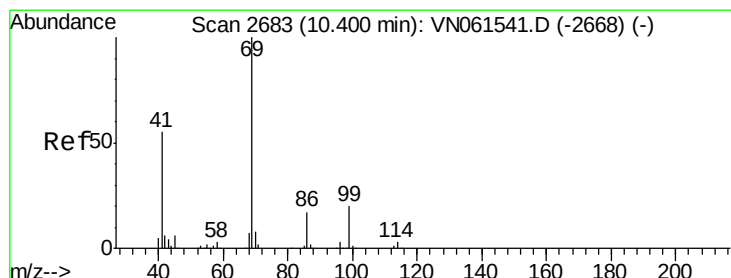
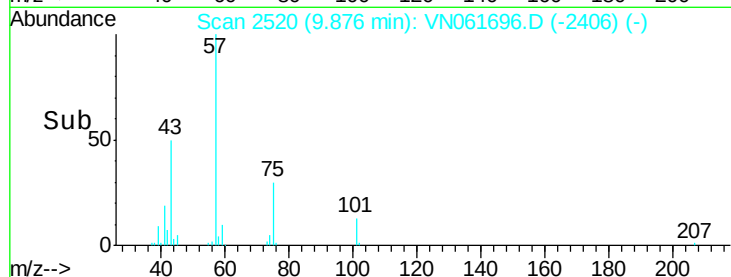
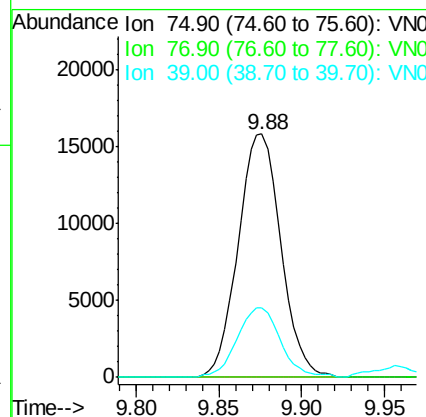
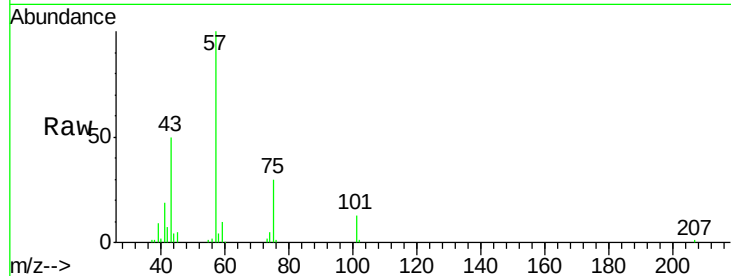




#54
 cis-1,3-Dichloropropene
 Concen: 4.67 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN061696.D
 Acq: 8 Jun 2020 15:21

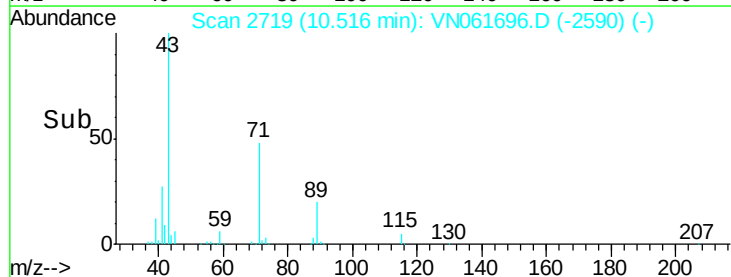
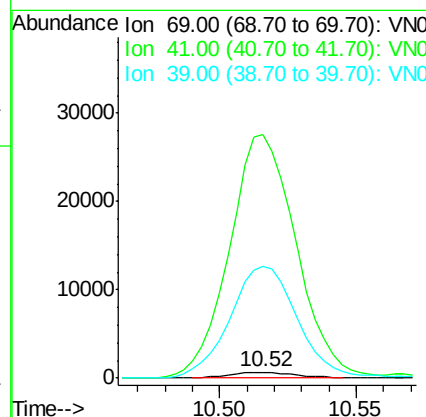
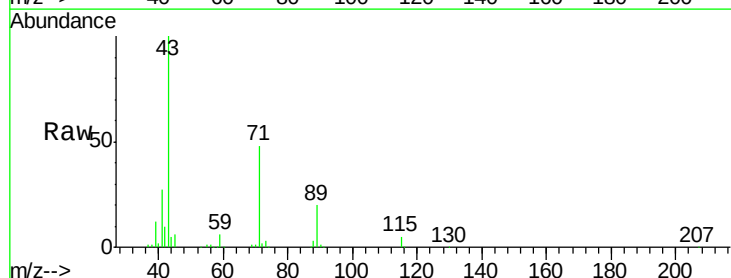
Instrument :
 MSVOA_N
 ClientSampleId :
 CHRT-26160

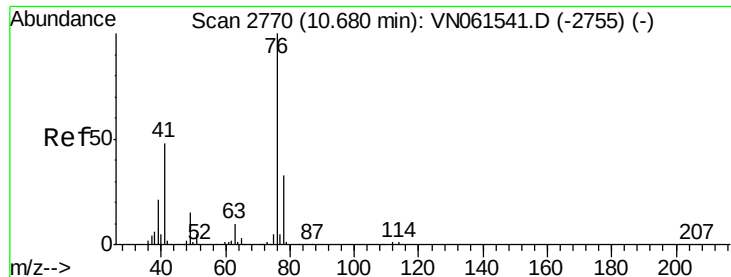
Tgt Ion: 75 Resp: 28383
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 28.7 33.8 50.6#



#56
 Ethyl methacrylate
 Concen: 0.20 ug/l
 RT: 10.52 min Scan# 2719
 Delta R.T. 0.12 min
 Lab File: VN061696.D
 Acq: 8 Jun 2020 15:21

Tgt Ion: 69 Resp: 1079
 Ion Ratio Lower Upper
 69 100
 41 4341.7 43.5 65.3#
 39 2019.6 27.0 40.6#

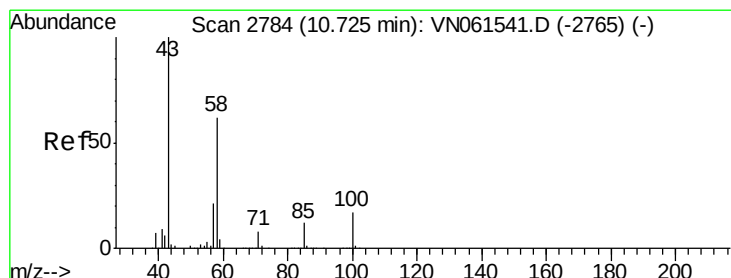
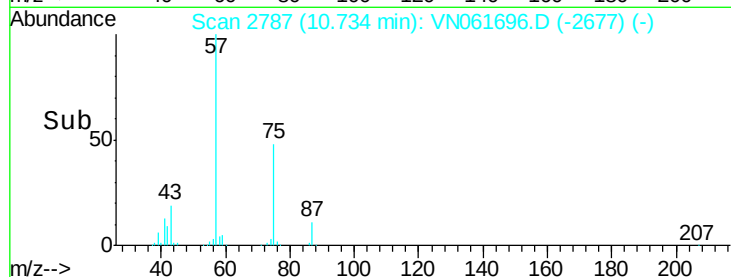
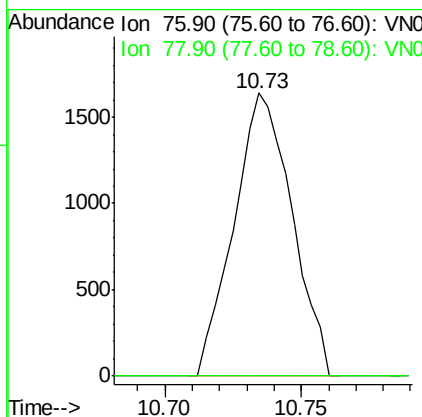
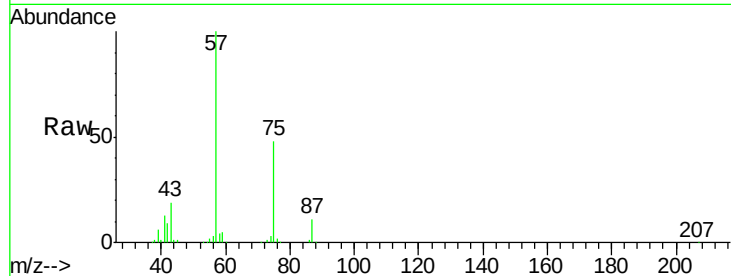




#57
 1,3-Dichloropropane
 Concen: 0.40 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.05 min
 Lab File: VN061696.D
 Acq: 8 Jun 2020 15:21

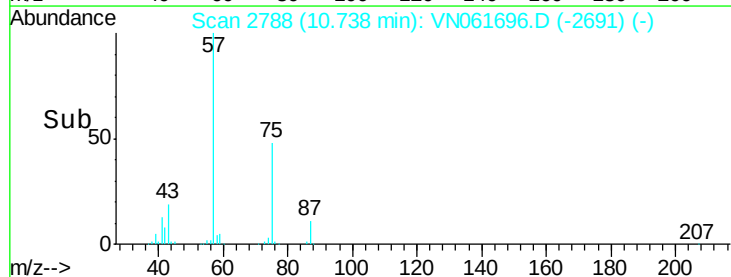
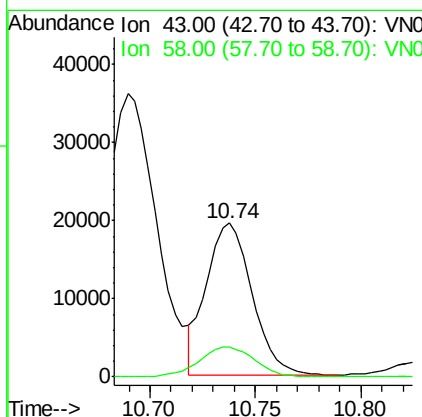
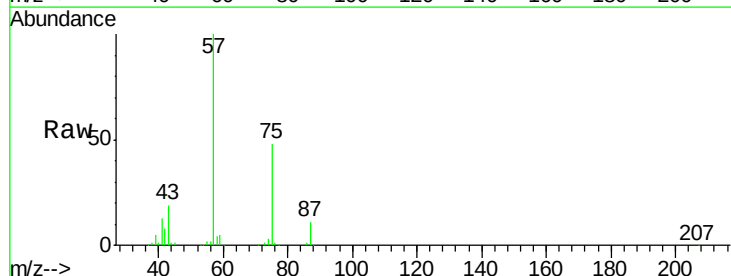
Instrument :
 MSVOA_N
 ClientSampled :
 CHRT-26160

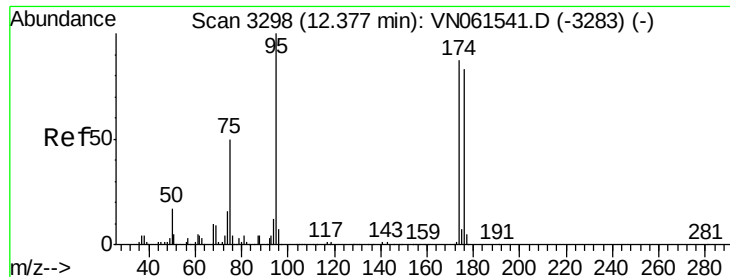
Tgt Ion: 76 Resp: 2417
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 10.69 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.01 min
 Lab File: VN061696.D
 Acq: 8 Jun 2020 15:21

Tgt Ion: 43 Resp: 29538
 Ion Ratio Lower Upper
 43 100
 58 23.6 30.7 92.1#





#62

4-Bromofluorobenzene

Concen: 50.51 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061696.D

Acq: 8 Jun 2020 15:21

Instrument :

MSVOA_N

ClientSampleId :

CHRT-26160

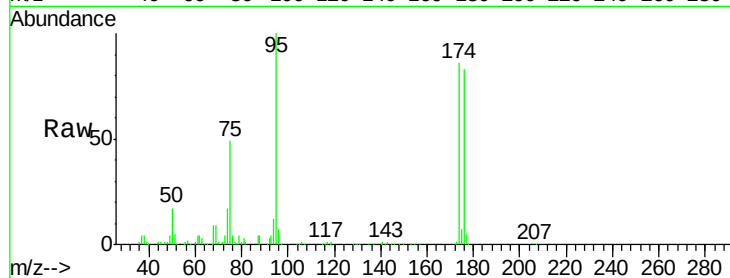
Tgt Ion: 95 Resp: 230529

Ion Ratio Lower Upper

95 100

174 86.2 0.0 172.8

176 83.2 0.0 164.8

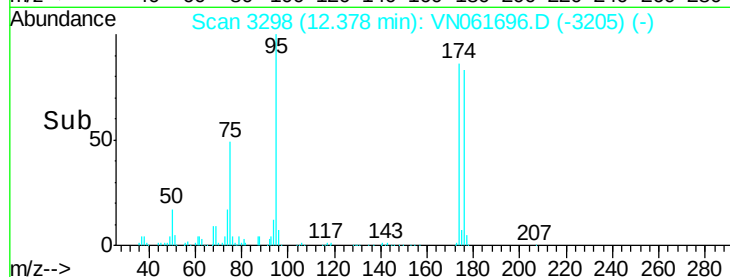


Abundance Ion 94.90 (94.60 to 95.60): VN061541.D (-3283) (-)

Ion 173.80 (173.50 to 174.50): VN061541.D (-3283) (-)

Ion 175.80 (175.50 to 176.50): VN061541.D (-3283) (-)

Time-->

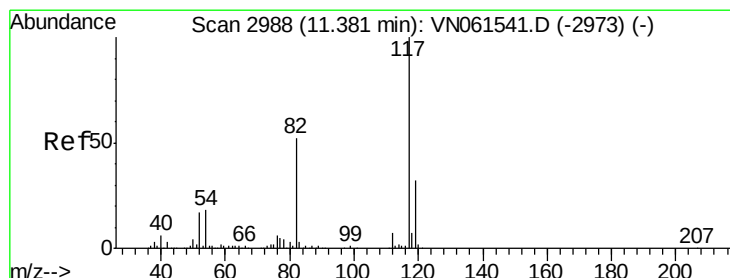


Abundance Ion 94.90 (94.60 to 95.60): VN061696.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN061696.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN061696.D (-3205) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN061696.D

Acq: 8 Jun 2020 15:21

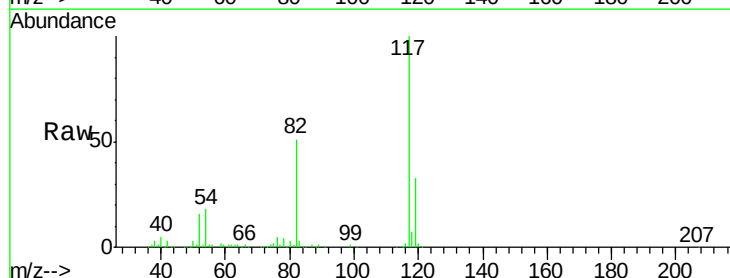
Tgt Ion: 117 Resp: 533480

Ion Ratio Lower Upper

117 100

82 51.3 41.5 62.3

119 32.8 25.6 38.4

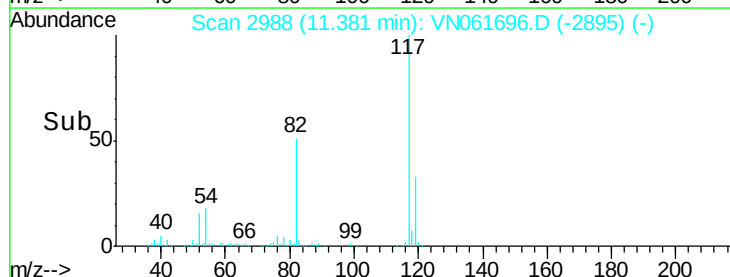


Abundance Ion 116.90 (116.60 to 117.60): VN061541.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN061541.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN061541.D (-2973) (-)

Time-->

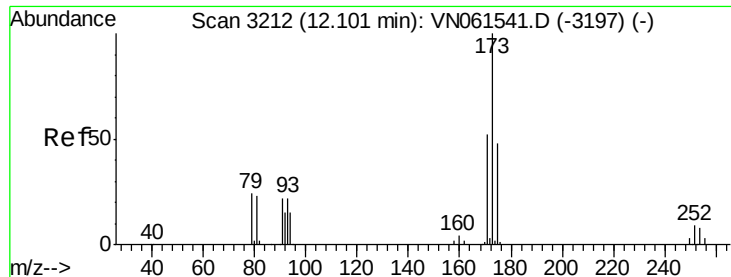


Abundance Ion 116.90 (116.60 to 117.60): VN061696.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN061696.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN061696.D (-2895) (-)

Time-->



#71

Bromoform

Concen: 0.52 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.28 min

Lab File: VN061696.D

Acq: 8 Jun 2020 15:21

Instrument :

MSVOA_N

ClientSampleId :

CHRT-26160

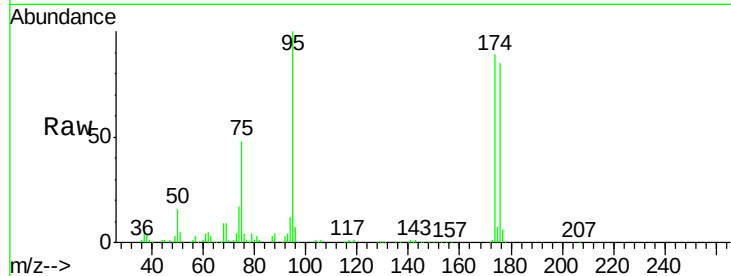
Tgt Ion:173 Resp: 1661

Ion Ratio Lower Upper

173 100

175 756.8 24.4 73.2#

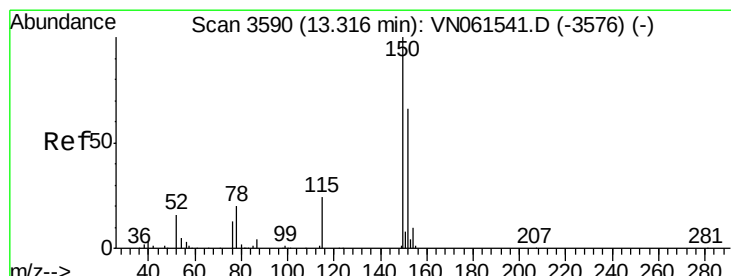
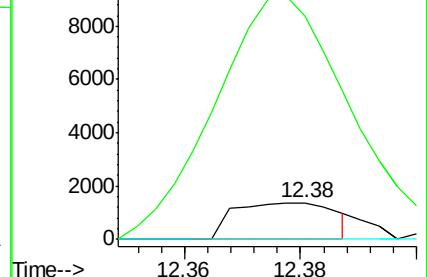
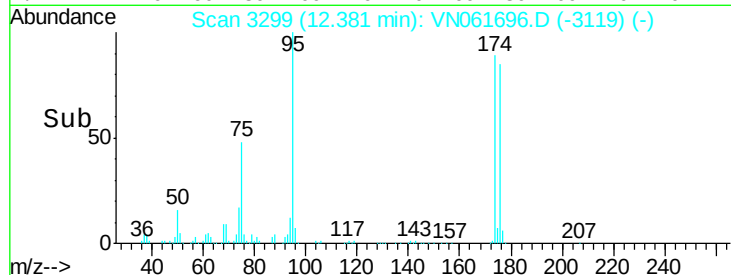
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061696.D

Acq: 8 Jun 2020 15:21

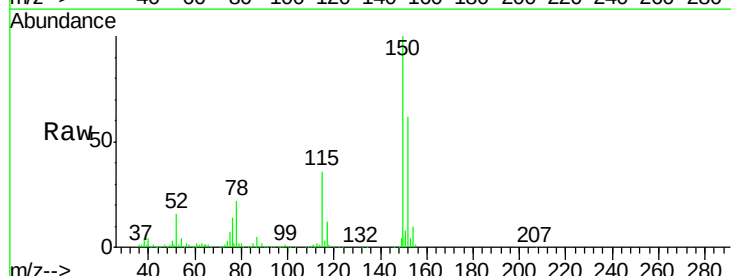
Tgt Ion:152 Resp: 238335

Ion Ratio Lower Upper

152 100

115 56.8 28.0 84.0

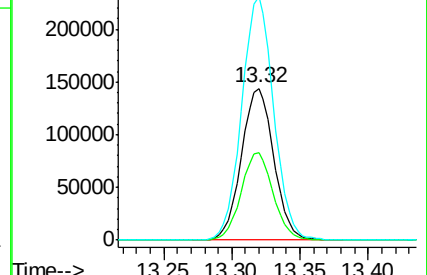
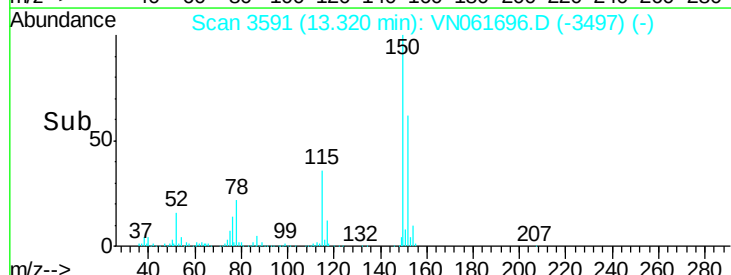
150 157.8 0.0 344.0

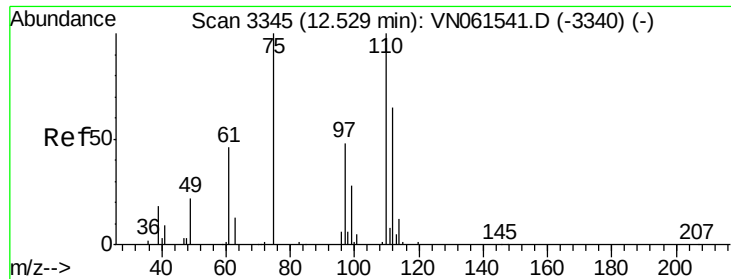


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.85 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061696.D

Acq: 8 Jun 2020 15:21

Instrument :

MSVOA_N

ClientSampled :

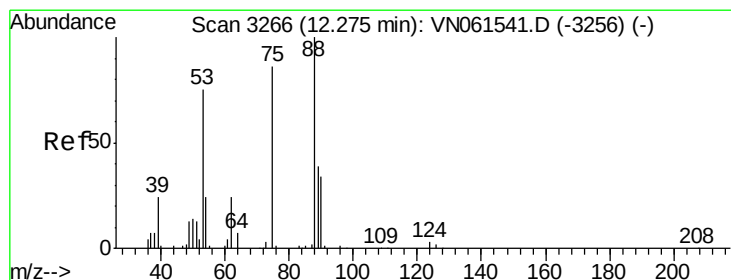
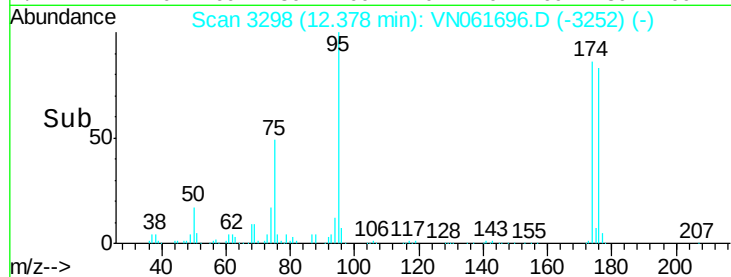
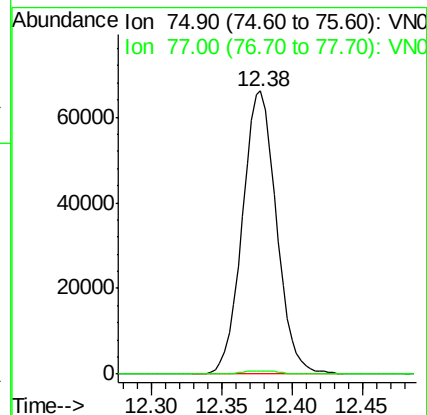
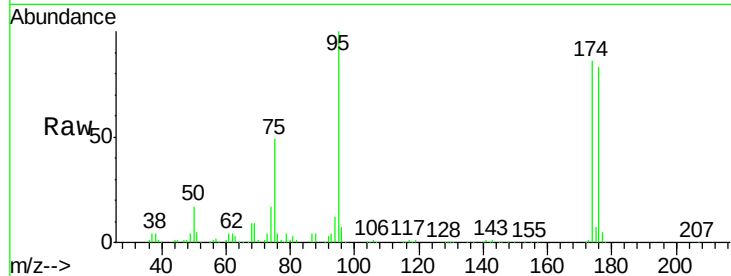
CHRT-26160

Tgt Ion: 75 Resp: 112046

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.11 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061696.D

Acq: 8 Jun 2020 15:21

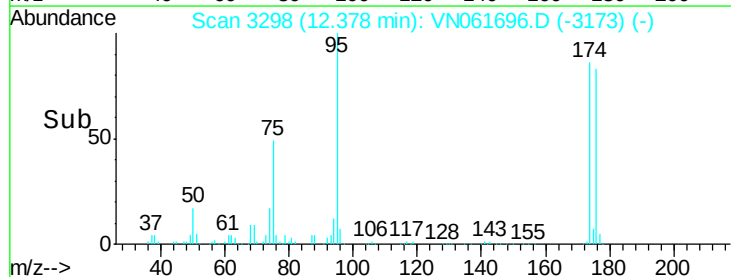
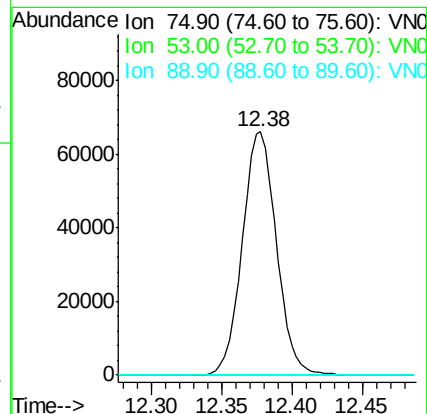
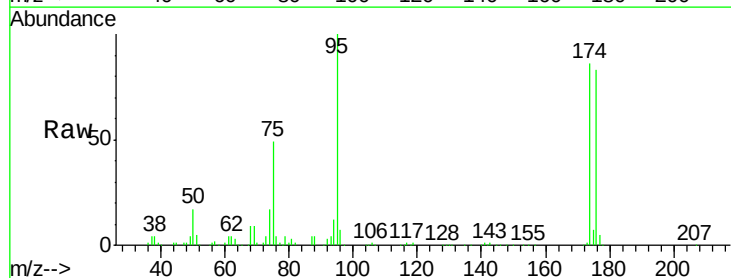
Tgt Ion: 75 Resp: 112046

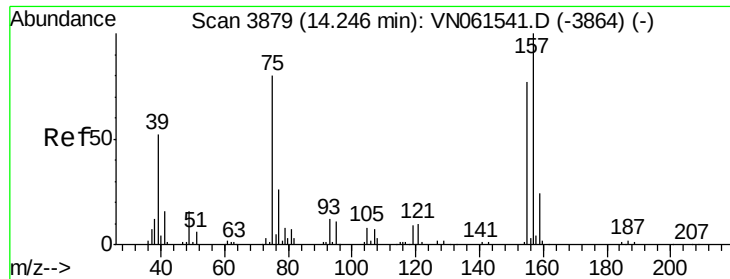
Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.35 ug/l

RT: 14.35 min Scan# 3913

Delta R.T. 0.11 min

Lab File: VN061696.D

Acq: 8 Jun 2020 15:21

Instrument :

MSVOA_N

ClientSampleId :

CHRT-26160

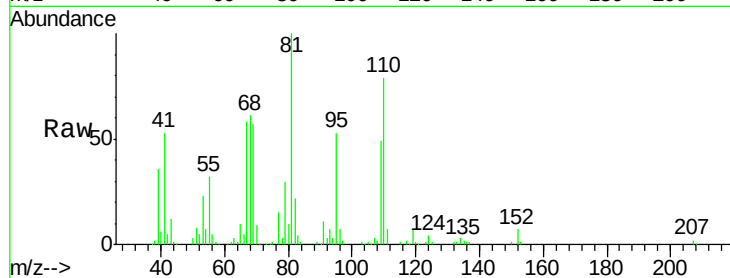
Tgt Ion: 75 Resp: 350

Ion Ratio Lower Upper

75 100

155 0.0 47.1 141.4#

157 0.0 60.3 180.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

