

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022620\
 Data File : VN060255.D
 Acq On : 26 Feb 2020 16:43
 Operator : JC/MD
 Sample : PB127076ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 27 04:35:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	202423	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	327020	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	306086	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	147975	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	127837	51.90	ug/l	0.00
Spiked Amount			Recovery	=	103.80%	
35) Dibromofluoromethane	7.57	113	90154	44.85	ug/l	0.00
Spiked Amount			Recovery	=	89.70%	
50) Toluene-d8	10.08	98	398578	50.35	ug/l	0.00
Spiked Amount			Recovery	=	100.70%	
62) 4-Bromofluorobenzene	12.40	95	150704	51.81	ug/l	0.00
Spiked Amount			Recovery	=	103.62%	

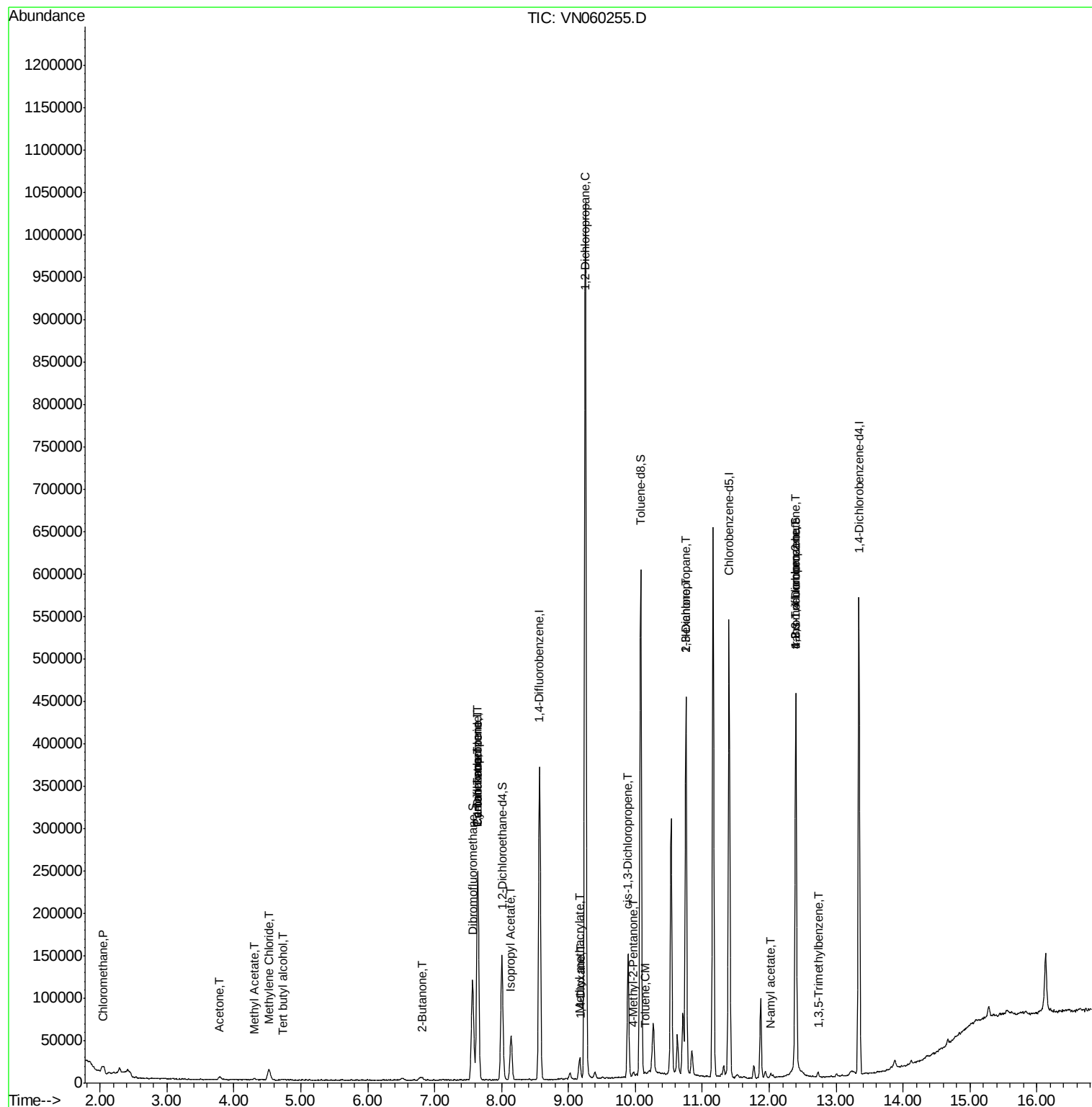
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	749	0.311	ug/l #	76
11) Tert butyl alcohol	4.72	59	422	1.145	ug/l #	72
16) Acetone	3.79	43	6053	5.634	ug/l	97
18) Methyl Acetate	4.30	43	2487	1.232	ug/l #	76
20) Methylene Chloride	4.52	84	9787	4.566	ug/l	94
25) 2-Butanone	6.81	43	4471	3.309	ug/l	91
31) Cyclohexane	7.64	56	4211	1.209	ug/l #	2
36) 1,1-Dichloropropene	7.64	75	15559	5.137	ug/l #	48
38) Carbon Tetrachloride	7.64	117	19342	5.880	ug/l #	15
43) Isopropyl Acetate	8.14	43	61857	13.219	ug/l #	89
45) 1,2-Dichloropropane	9.25	63	1191	0.535	ug/l #	43
48) Methyl methacrylate	9.16	41	3648	1.738	ug/l #	9
49) 1,4-Dioxane	9.19	88	62	1.728	ug/l #	1
51) 4-Methyl-2-Pentanone	9.97	43	4064	1.500	ug/l	91
52) Toluene	10.14	92	1232	0.214	ug/l	97
54) cis-1,3-Dichloropropene	9.89	75	26708	7.031	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	4434	1.195	ug/l #	43
59) 2-Hexanone	10.75	43	67756	32.383	ug/l #	51
74) N-amyl acetate	12.02	43	3914	0.982	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	78723	27.807	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2689	0.293	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	78723	68.085	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.27	75	71	Below Cal	#	1

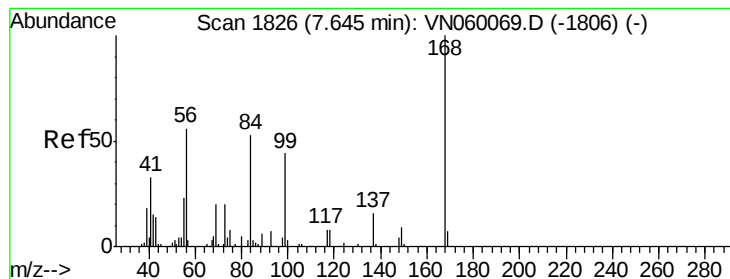
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060255.D

Acq: 26 Feb 2020 16:43

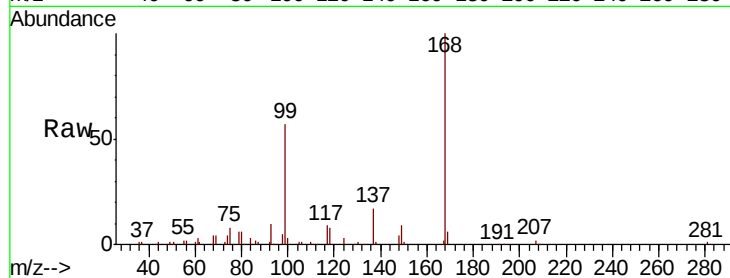
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 202423

Ion Ratio Lower Upper

168 100

99 56.6 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

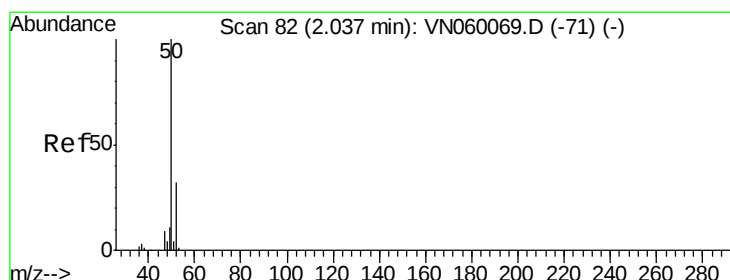
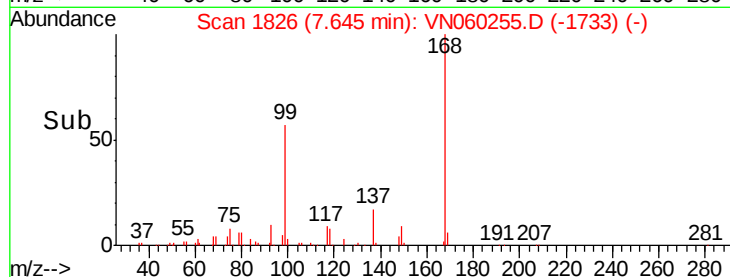
40000

20000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: 0.311 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN060255.D

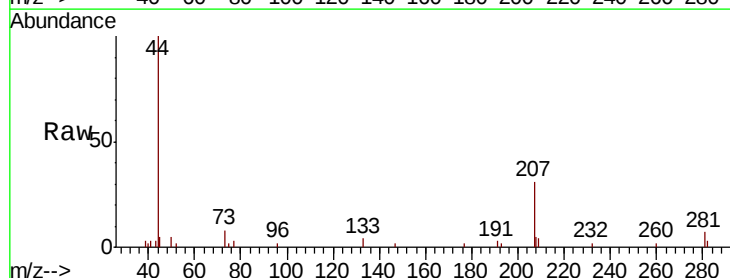
Acq: 26 Feb 2020 16:43

Tgt Ion: 50 Resp: 749

Ion Ratio Lower Upper

50 100

52 45.2 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

500

400

300

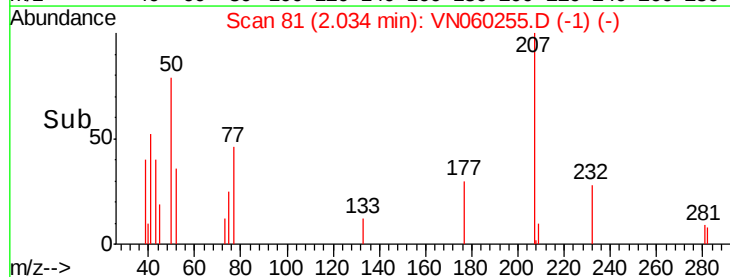
200

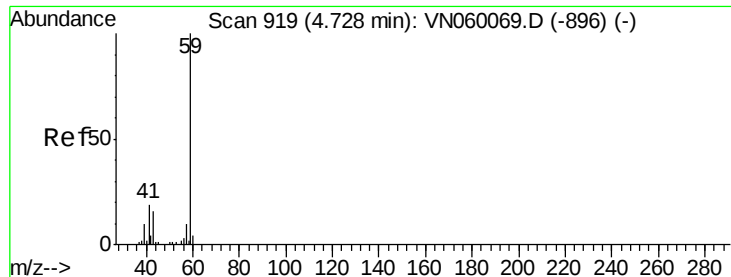
100

0

2.02 2.04 2.06

Time-->

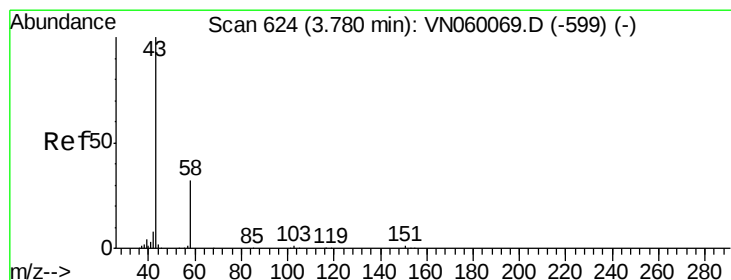
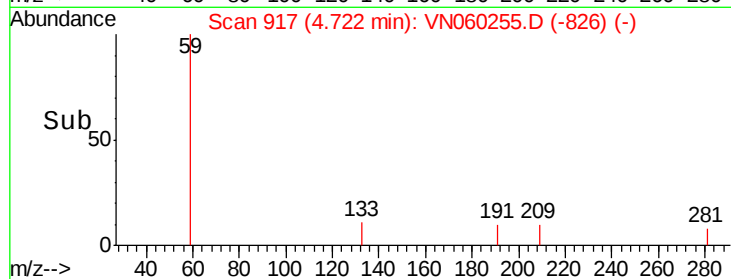
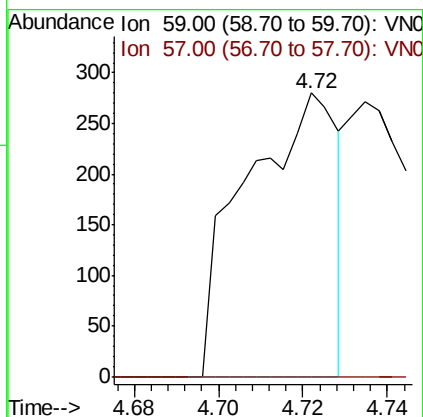
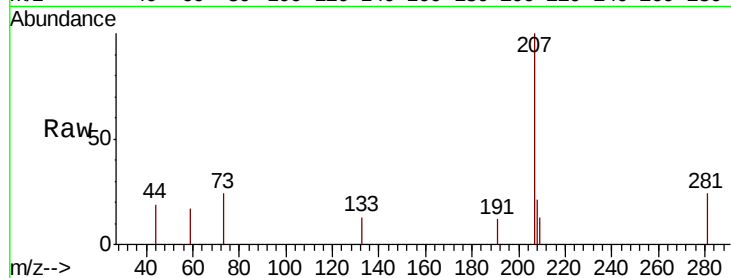




#11
Tert butyl alcohol
Concen: 1.145 ug/l
RT: 4.72 min Scan# 917
Delta R.T. -0.01 min
Lab File: VN060255.D
Acq: 26 Feb 2020 16:43

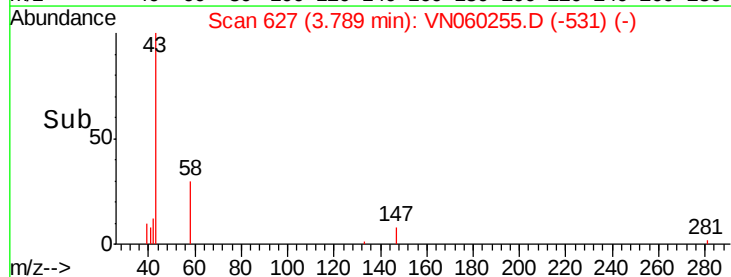
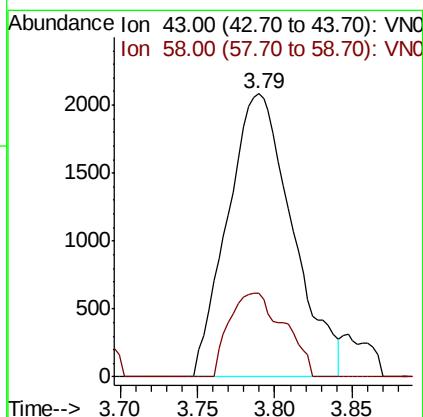
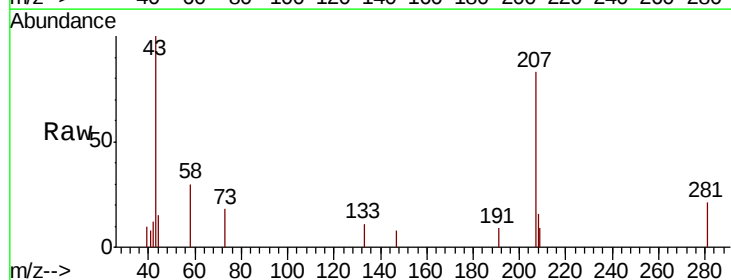
Instrument :
MSVOA_N
ClientSampled :

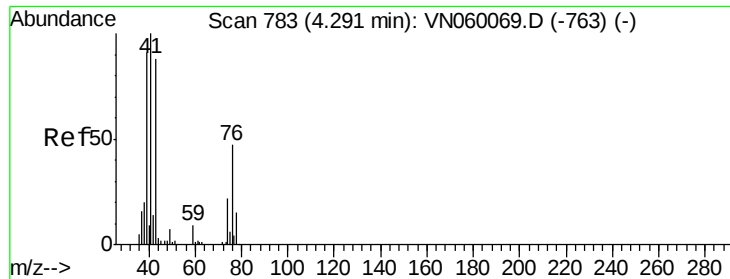
Tot Ion: 59 Resp: 422
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 5.634 ug/l
RT: 3.79 min Scan# 627
Delta R.T. 0.01 min
Lab File: VN060255.D
Acq: 26 Feb 2020 16:43

Tgt Ion: 43 Resp: 6053
Ion Ratio Lower Upper
43 100
58 29.7 25.2 37.8

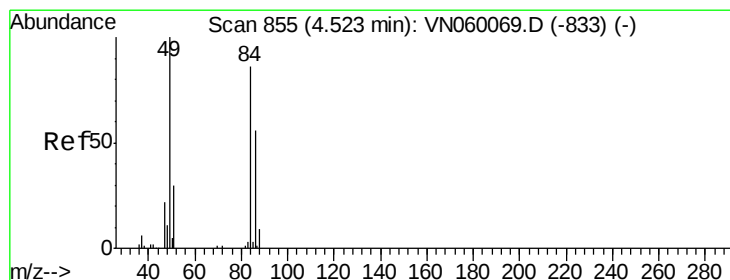
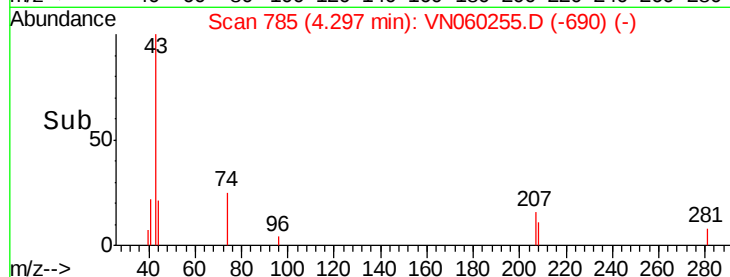
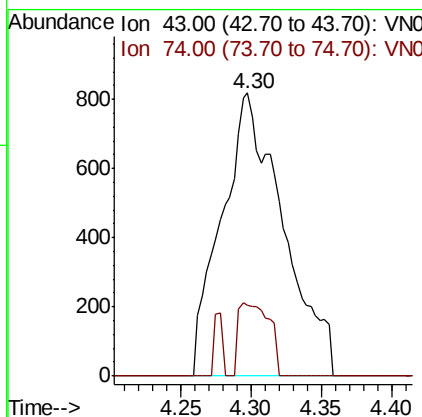
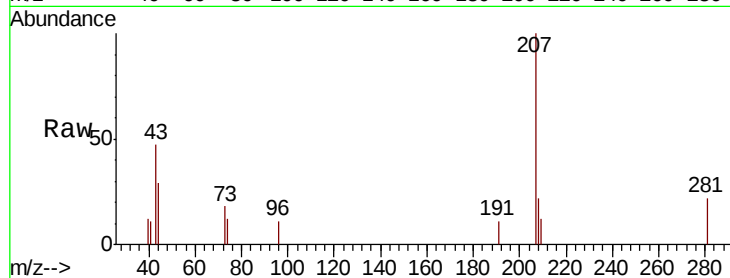




#18
Methyl Acetate
Concen: 1.232 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060255.D
Acq: 26 Feb 2020 16:43

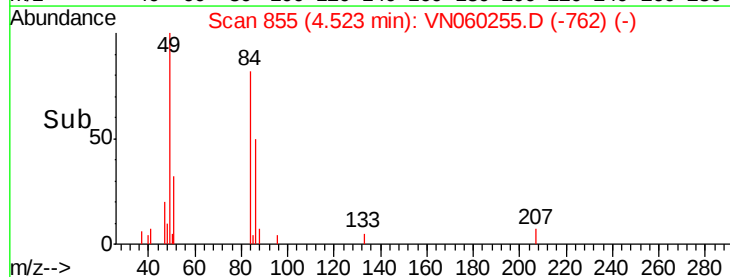
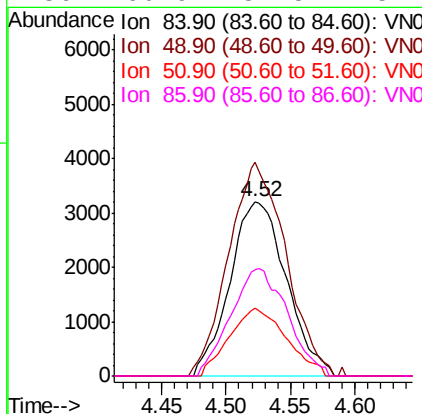
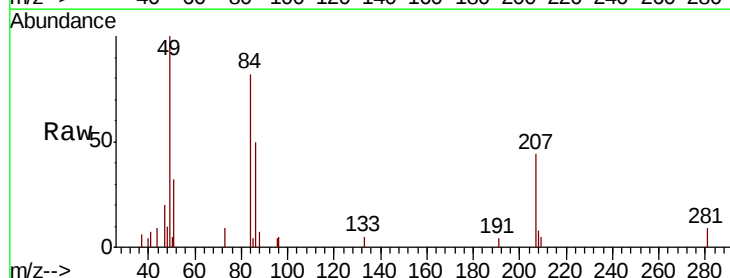
Instrument :
MSVOA_N
ClientSampleId :

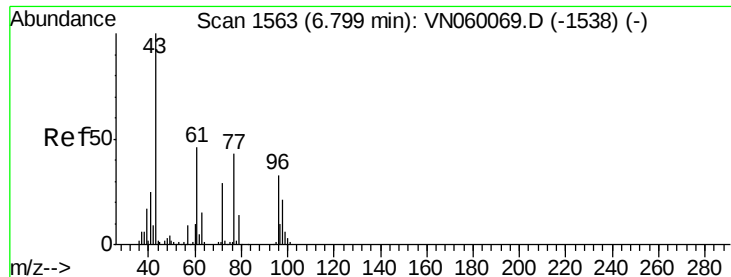
Tot Ion: 43 Resp: 2487
Ion Ratio Lower Upper
43 100
74 13.1 20.3 30.5#



#20
Methylene Chloride
Concen: 4.566 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060255.D
Acq: 26 Feb 2020 16:43

Tgt Ion: 84 Resp: 9787
Ion Ratio Lower Upper
84 100
49 122.7 93.4 140.0
51 39.1 28.4 42.6
86 60.9 52.5 78.7

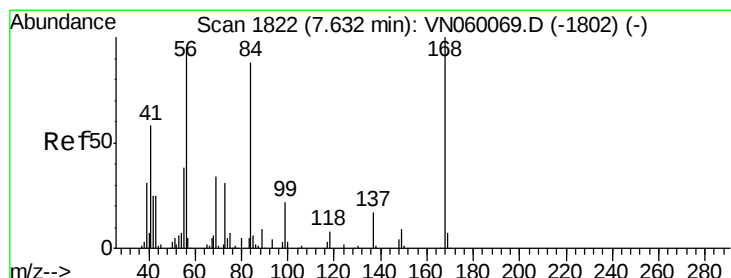
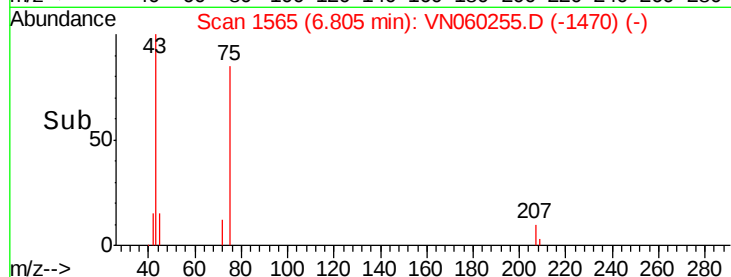
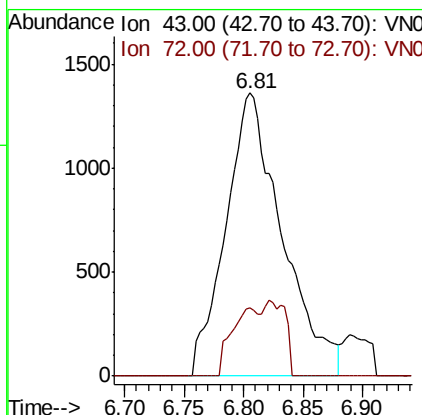
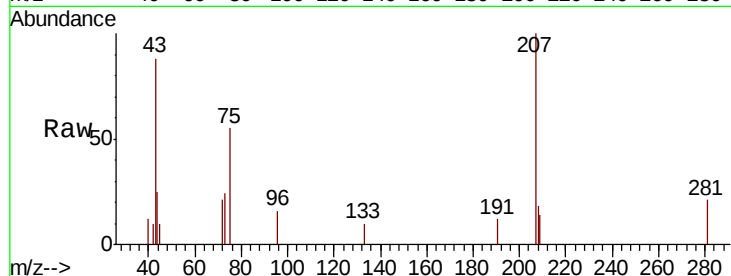




#25
2-Butanone
Concen: 3.309 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060255.D
Acq: 26 Feb 2020 16:43

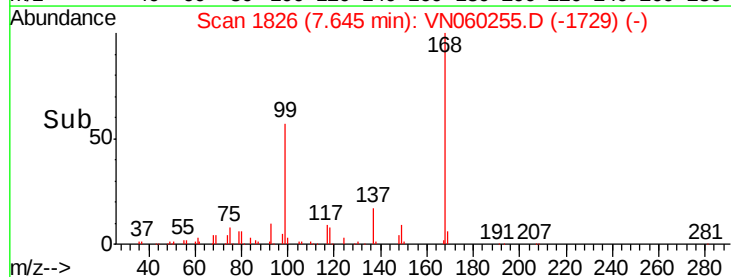
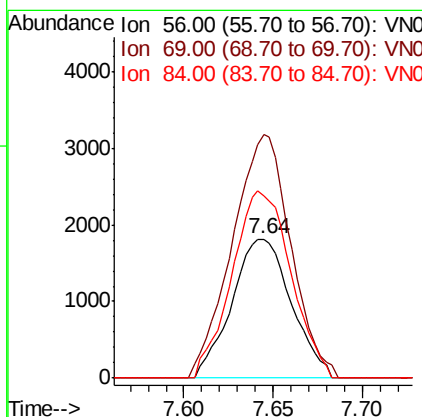
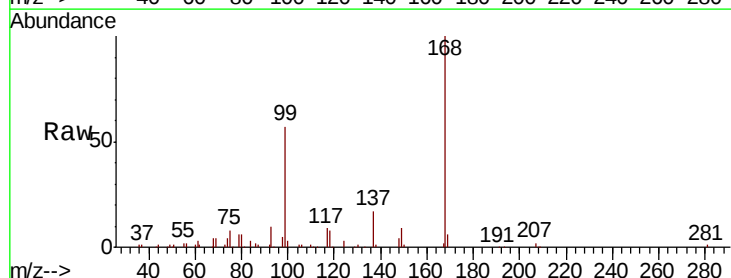
Instrument :
MSVOA_N
ClientSampleId :

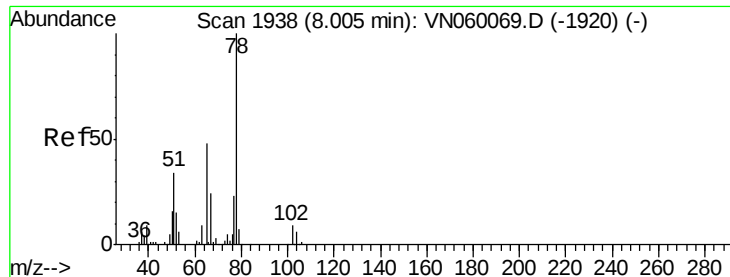
Tot Ion: 43 Resp: 4471
Ion Ratio Lower Upper
43 100
72 24.2 23.3 34.9



#31
Cyclohexane
Concen: 1.209 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060255.D
Acq: 26 Feb 2020 16:43

Tgt Ion: 56 Resp: 4211
Ion Ratio Lower Upper
56 100
69 175.0 28.3 42.5#
84 131.1 72.6 108.8#





#33

1,2-Dichloroethane-d4

Concen: 51.900 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

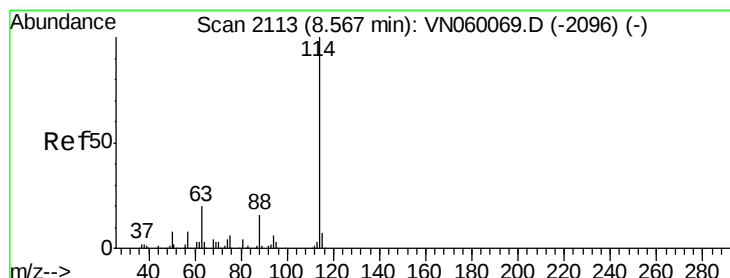
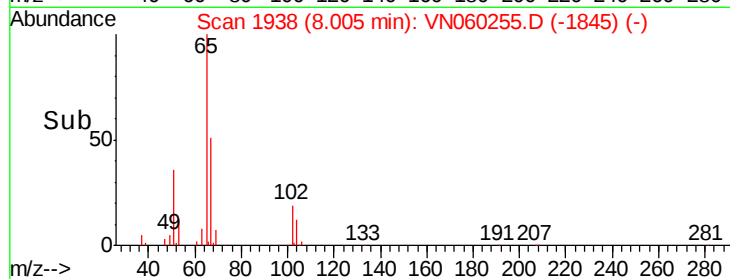
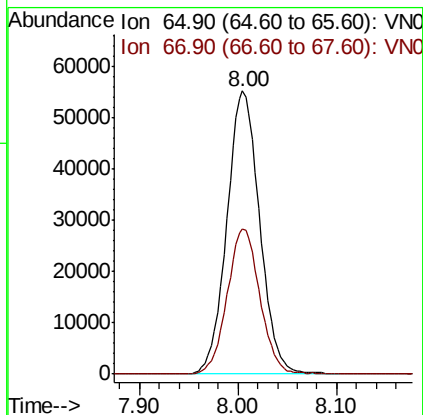
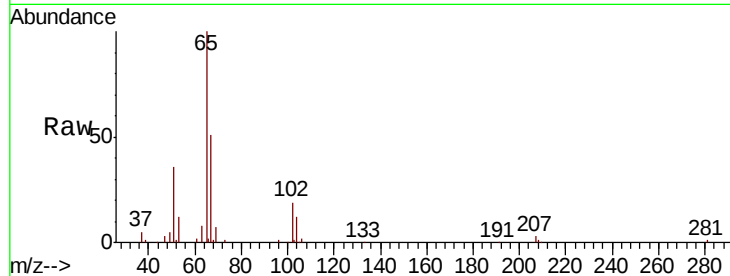
Lab File: VN060255.D

Acq: 26 Feb 2020 16:43

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 127837

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

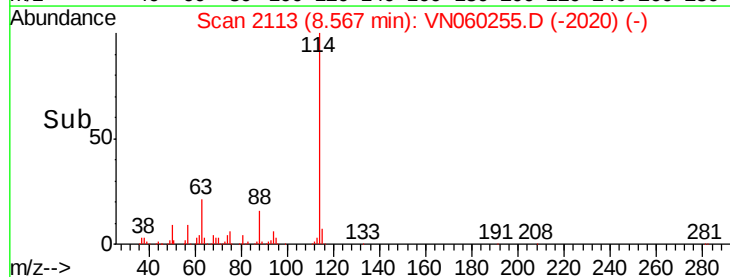
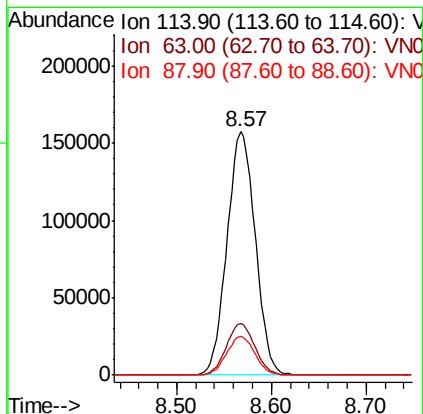
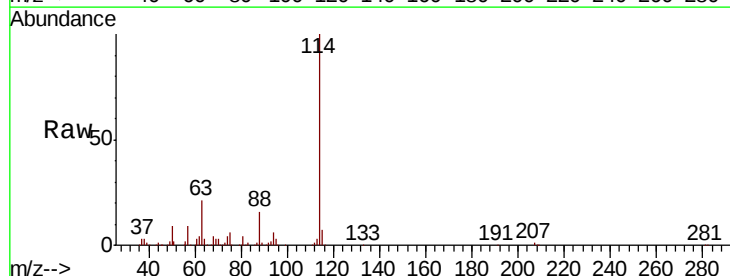
Delta R.T. 0.00 min

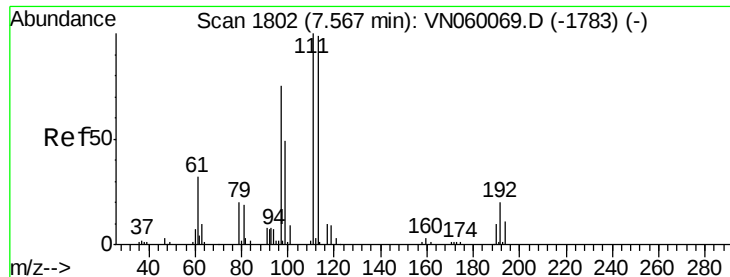
Lab File: VN060255.D

Acq: 26 Feb 2020 16:43

Tgt Ion: 114 Resp: 327020

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	40.0
88	15.8	0.0	31.6





#35

Dibromofluoromethane

Concen: 44.848 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN060255.D

Acq: 26 Feb 2020 16:43

Instrument :
MSVOA_N
ClientSampleId :

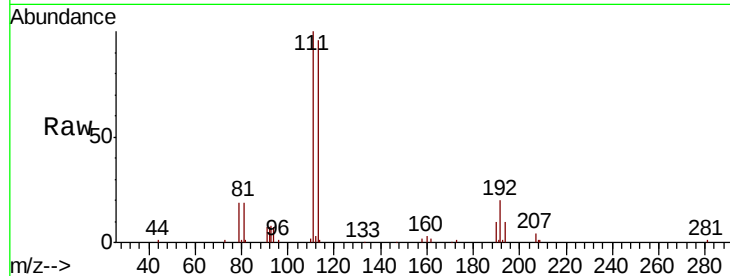
Tot Ion:113 Resp: 90154

Ion Ratio Lower Upper

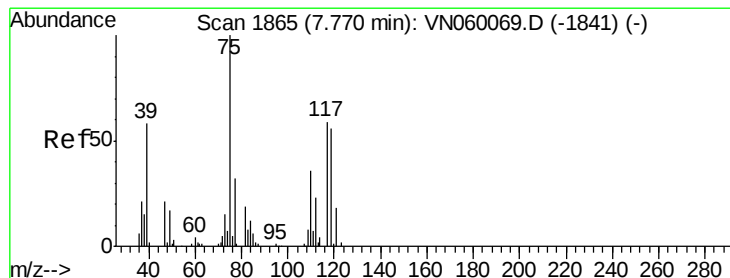
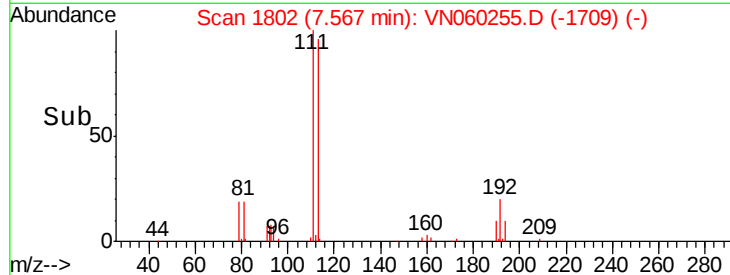
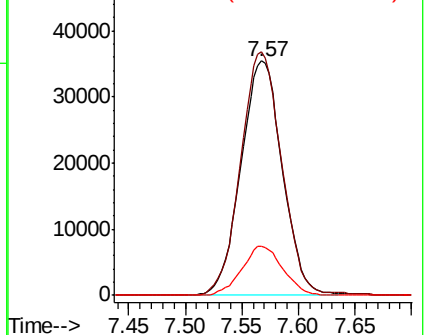
113 100

111 102.3 81.4 122.2

192 20.7 16.2 24.2



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: 5.137 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060255.D

Acq: 26 Feb 2020 16:43

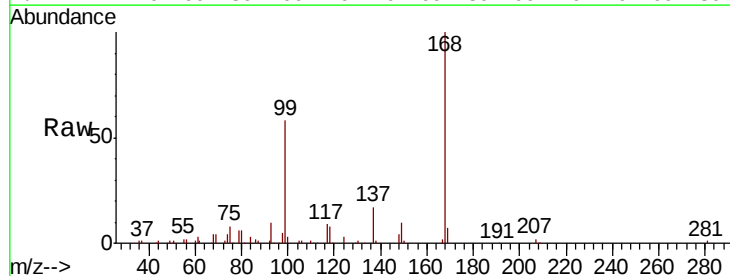
Tgt Ion: 75 Resp: 15559

Ion Ratio Lower Upper

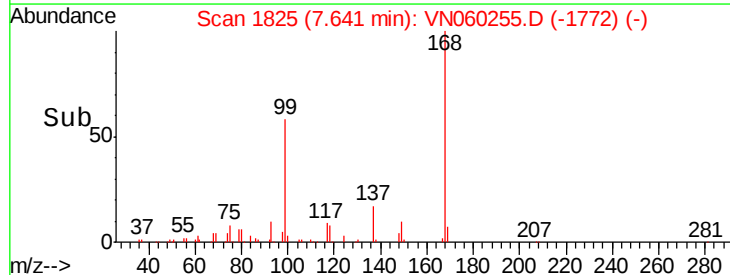
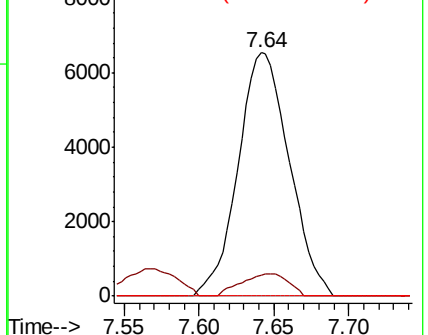
75 100

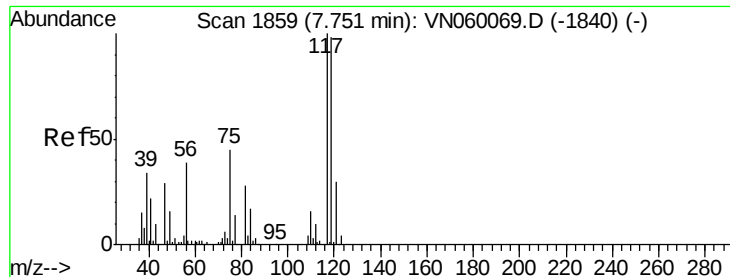
110 8.4 18.1 54.3#

77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.880 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060255.D

Acq: 26 Feb 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

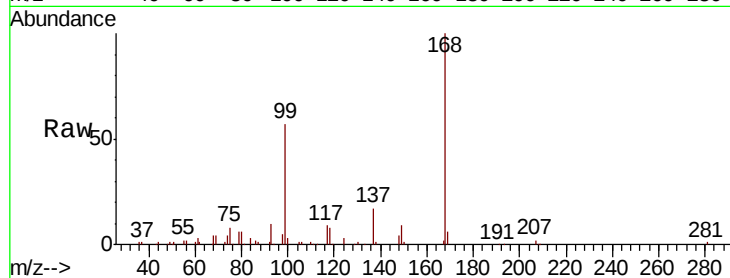
Tot Ion:117 Resp: 19342

Ion Ratio Lower Upper

117 100

119 5.2 78.2 117.4#

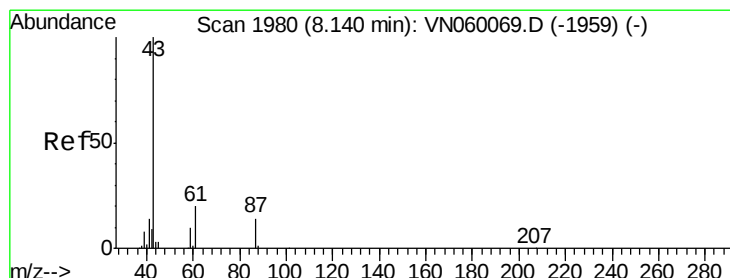
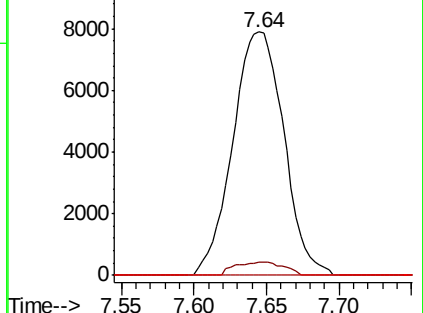
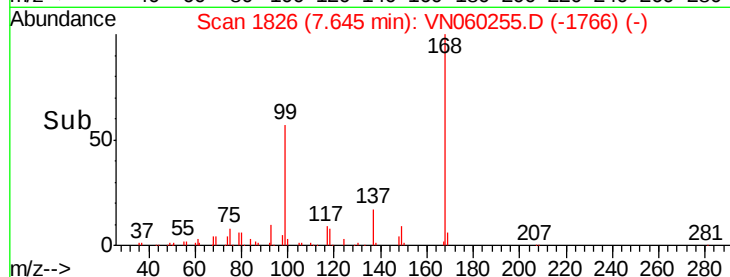
121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 13.219 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060255.D

Acq: 26 Feb 2020 16:43

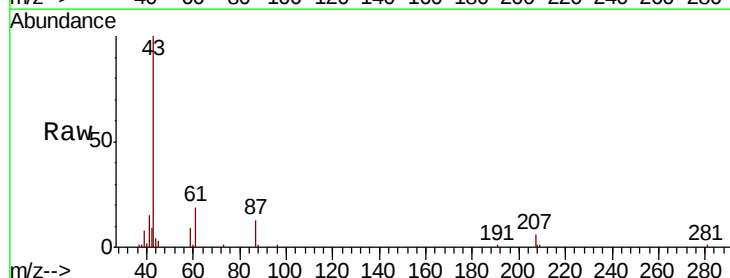
Tgt Ion: 43 Resp: 61857

Ion Ratio Lower Upper

43 100

61 18.9 21.8 32.6#

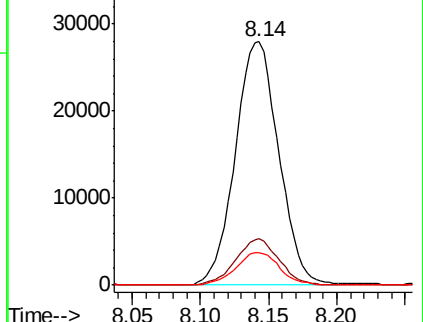
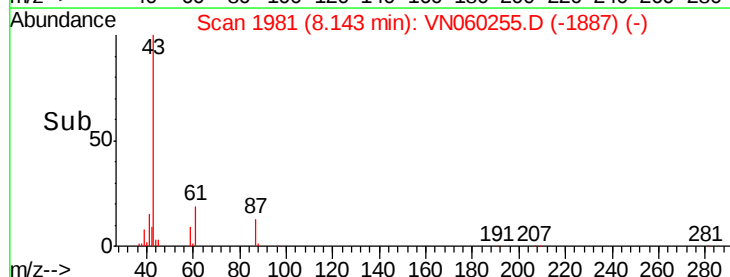
87 13.3 11.4 17.2

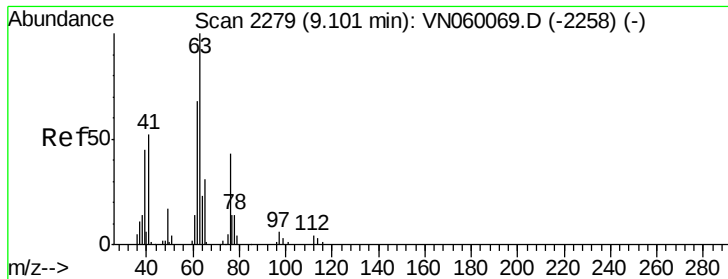


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

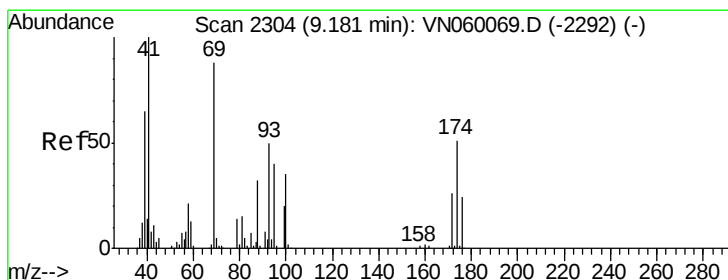
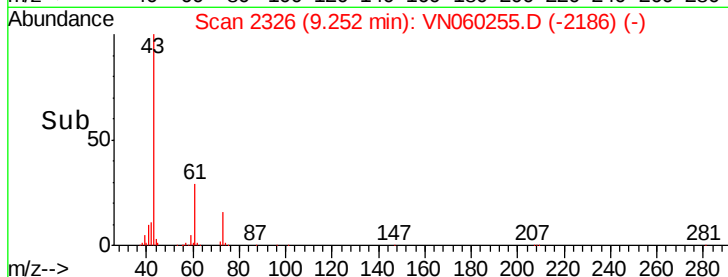
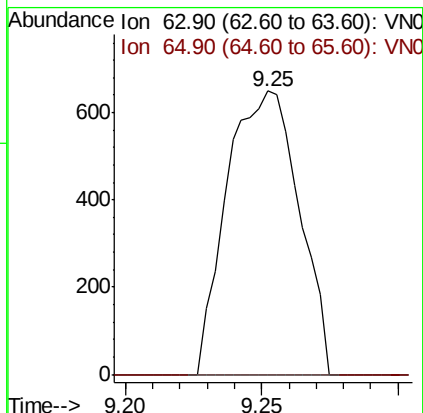
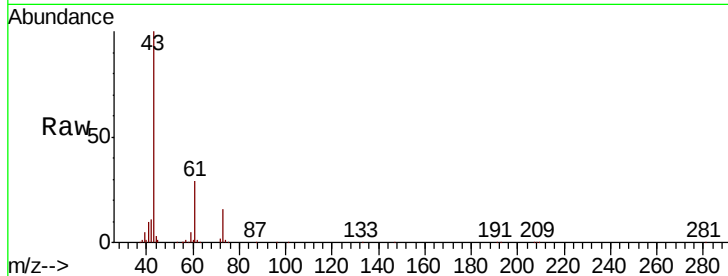




#45
 1,2-Dichloropropane
 Concen: 0.535 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.15 min
 Lab File: VN060255.D
 Acq: 26 Feb 2020 16:43

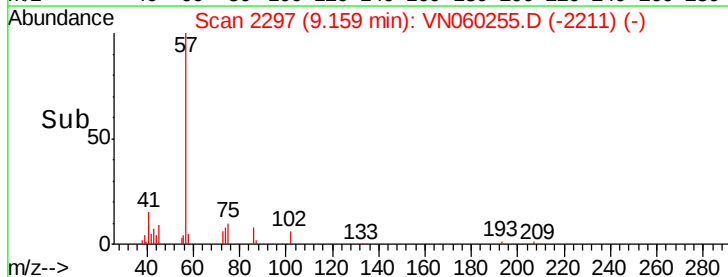
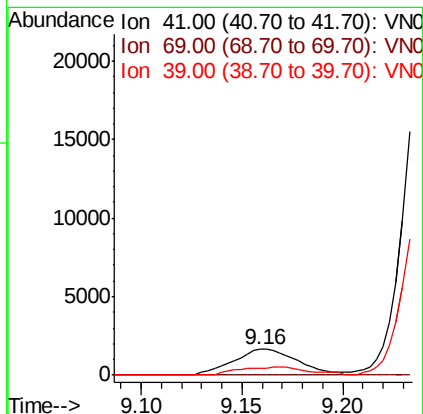
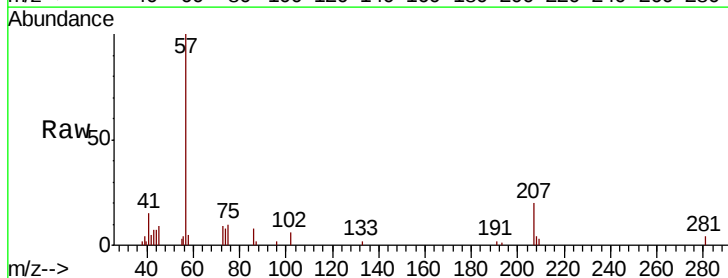
Instrument :
 MSVOA_N
 ClientSampleId :

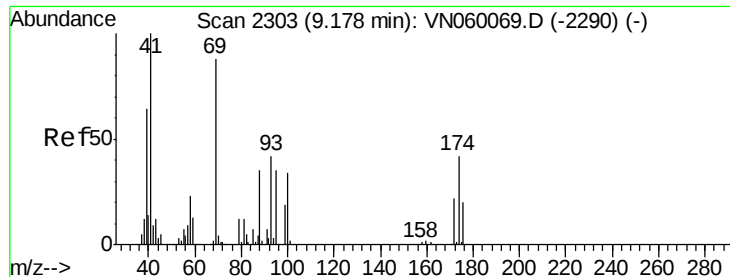
Tot Ion: 63 Resp: 1191
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.738 ug/l
 RT: 9.16 min Scan# 2297
 Delta R.T. -0.02 min
 Lab File: VN060255.D
 Acq: 26 Feb 2020 16:43

Tgt Ion: 41 Resp: 3648
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.0 108.0#
 39 0.0 54.1 81.1#

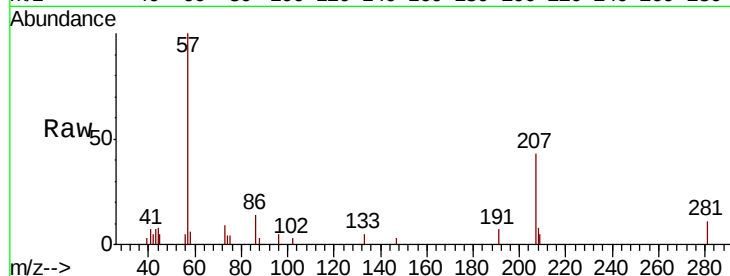




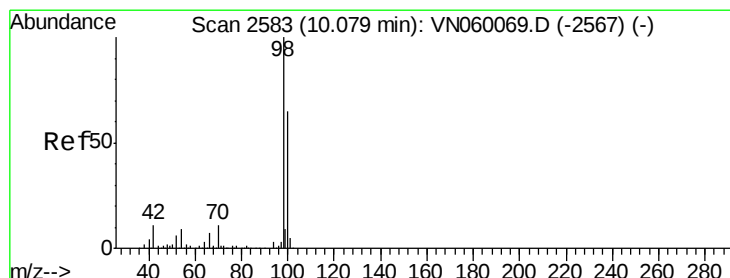
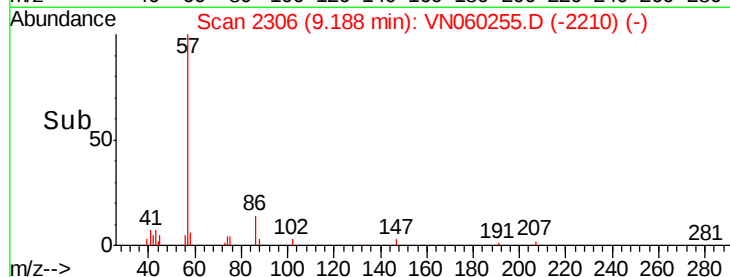
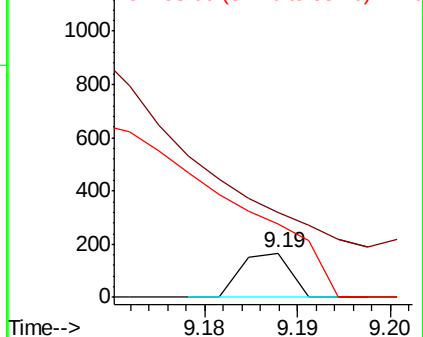
#49
 1,4-Dioxane
 Concen: 1.728 ug/l
 RT: 9.19 min Scan# 2306
 Delta R.T. 0.01 min
 Lab File: VN060255.D
 Acq: 26 Feb 2020 16:43

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 88 Resp: 62
 Ion Ratio Lower Upper
 88 100
 43 0.0 26.2 39.2#
 58 2511.3 53.2 79.8#

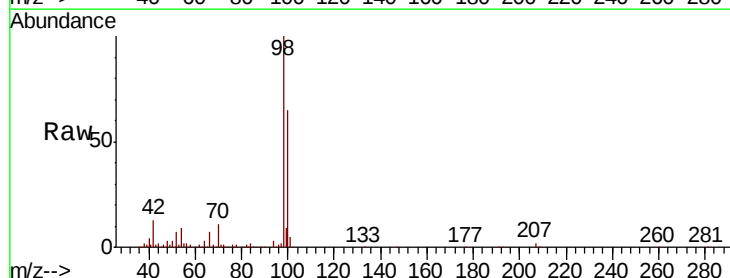


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

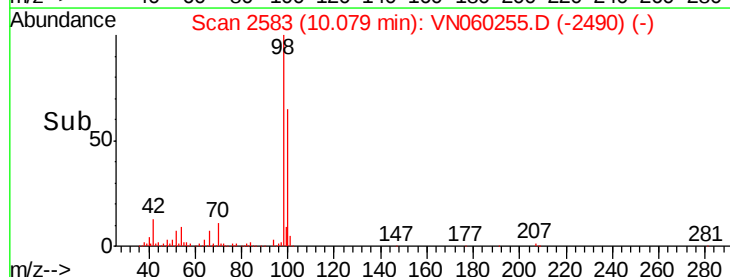
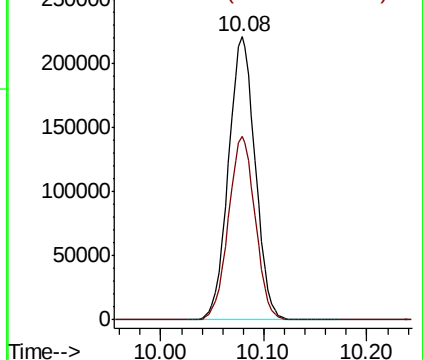


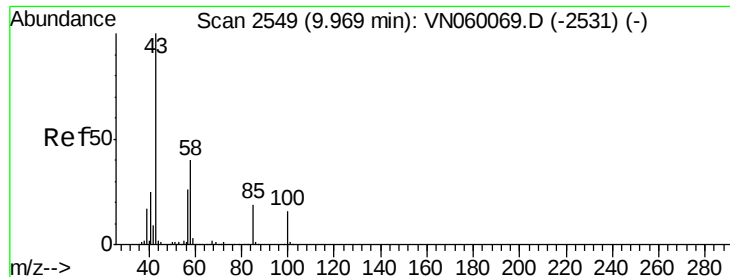
#50
 Toluene-d8
 Concen: 50.351 ug/l
 RT: 10.08 min Scan# 2583
 Delta R.T. -0.00 min
 Lab File: VN060255.D
 Acq: 26 Feb 2020 16:43

Tgt Ion: 98 Resp: 398578
 Ion Ratio Lower Upper
 98 100
 100 64.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
 Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.500 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060255.D

Acq: 26 Feb 2020 16:43

Instrument :

MSVOA_N

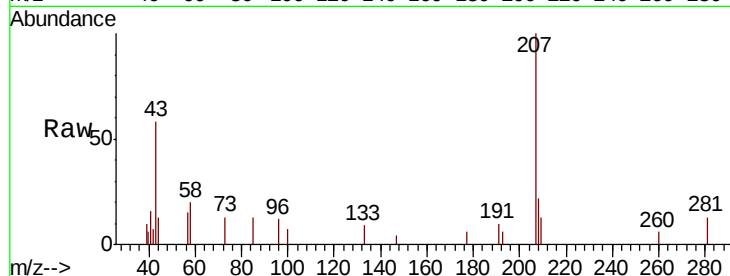
ClientSampled :

Tot Ion: 43 Resp: 4064

Ion Ratio Lower Upper

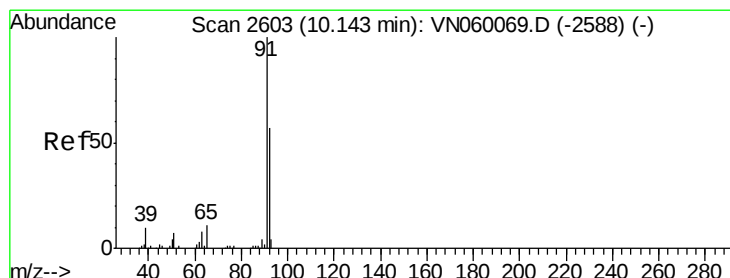
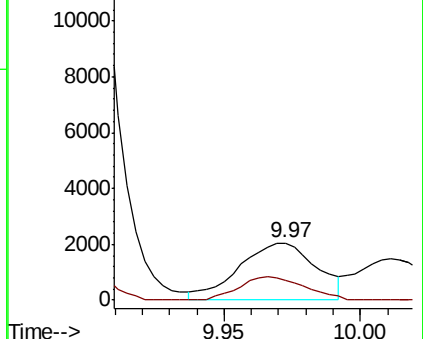
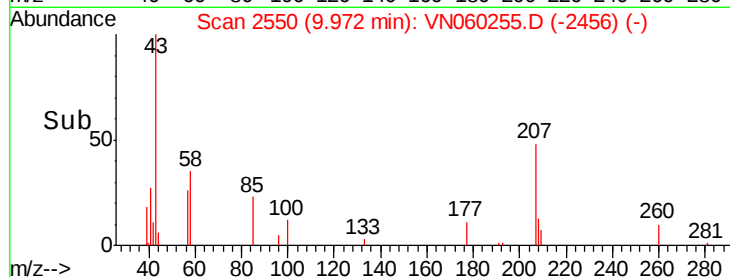
43 100

58 34.4 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN060069.D (-2531) (-)



#52

Toluene

Concen: 0.214 ug/l

RT: 10.14 min Scan# 2602

Delta R.T. -0.00 min

Lab File: VN060255.D

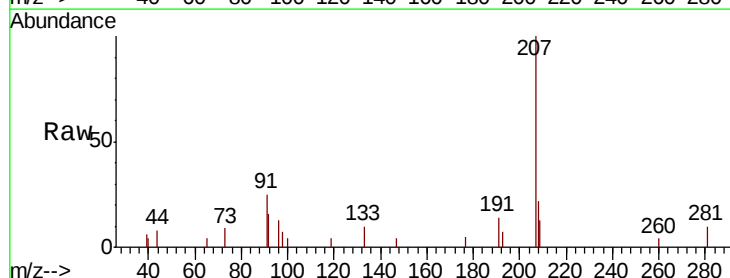
Acq: 26 Feb 2020 16:43

Tgt Ion: 92 Resp: 1232

Ion Ratio Lower Upper

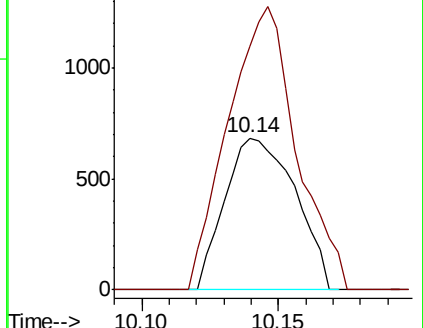
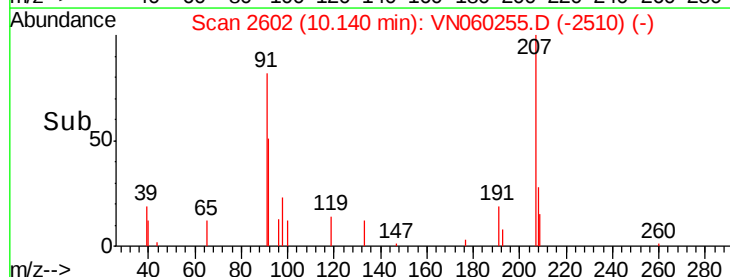
92 100

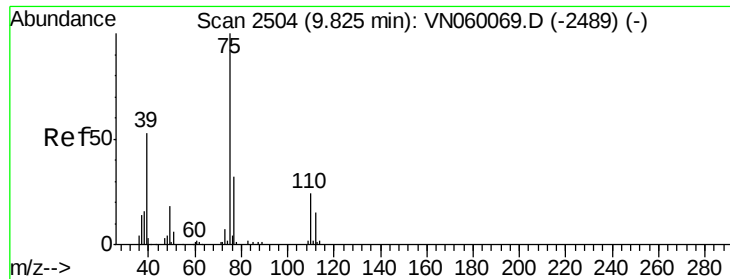
91 180.4 140.9 211.3



Abundance Ion 92.00 (91.70 to 92.70): VN060069.D (-2588) (-)

Ion 91.00 (90.70 to 91.70): VN060069.D (-2588) (-)





#54

cis-1,3-Dichloropropene

Concen: 7.031 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060255.D

Acq: 26 Feb 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

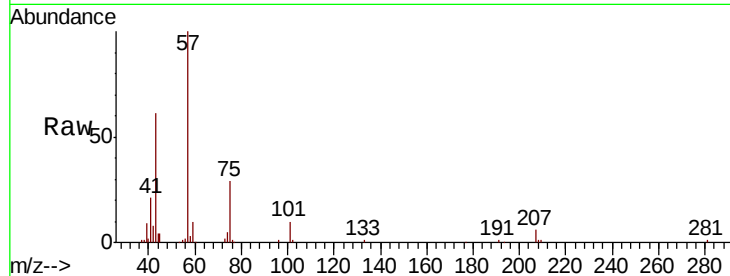
Tot Ion: 75 Resp: 26708

Ion Ratio Lower Upper

75 100

77 1.0 25.6 38.4#

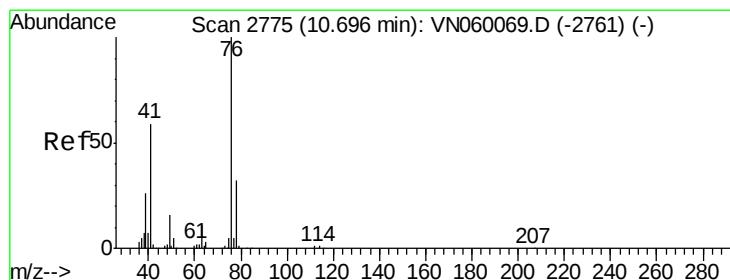
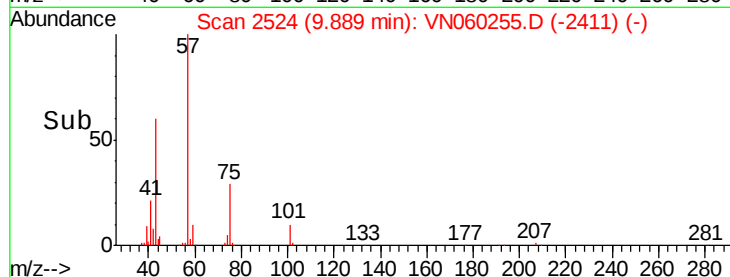
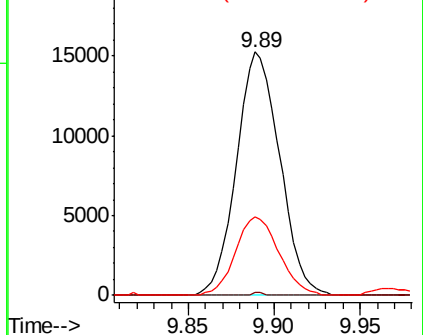
39 32.3 42.2 63.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060069.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN060069.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN060069.D (-2489) (-)



#57

1,3-Dichloropropane

Concen: 1.195 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060255.D

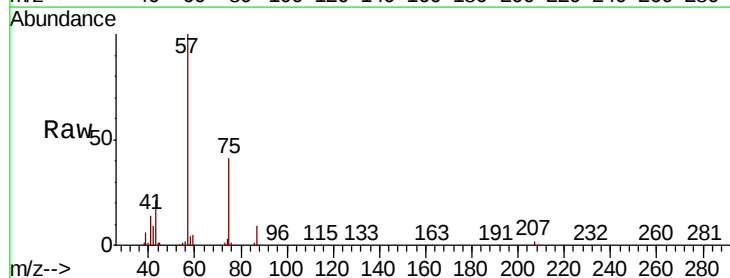
Acq: 26 Feb 2020 16:43

Tgt Ion: 76 Resp: 4434

Ion Ratio Lower Upper

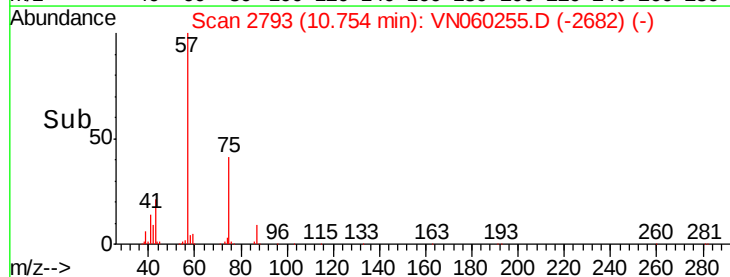
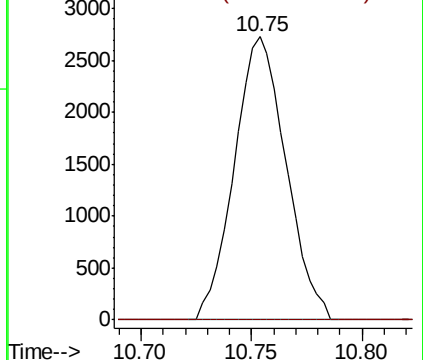
76 100

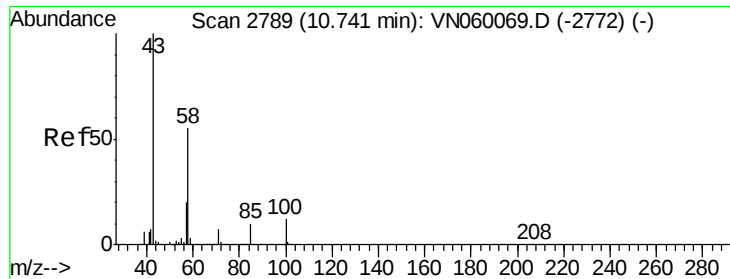
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN060069.D (-2761) (-)

Ion 77.90 (77.60 to 78.60): VN060069.D (-2761) (-)

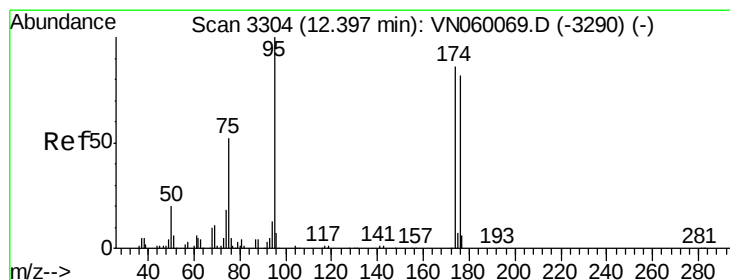
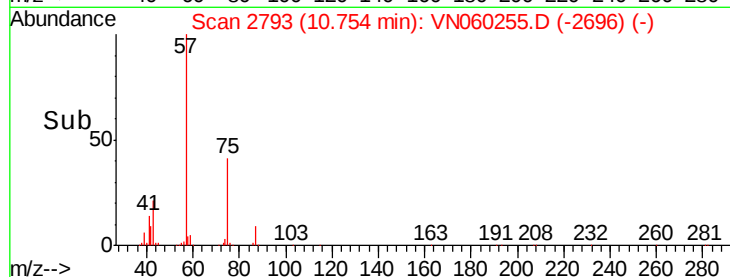
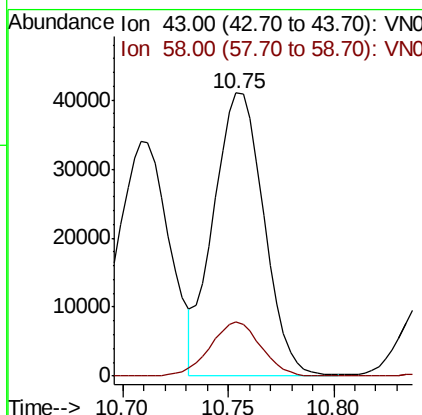
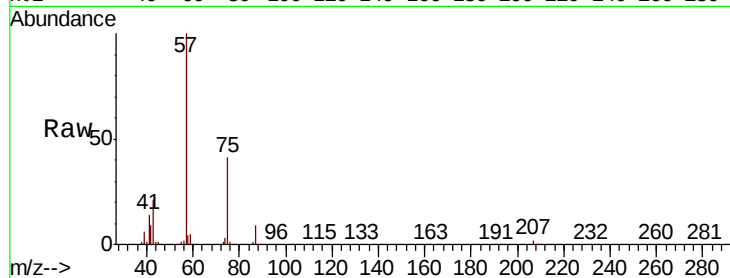




#59
2-Hexanone
Concen: 32.383 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060255.D
Acq: 26 Feb 2020 16:43

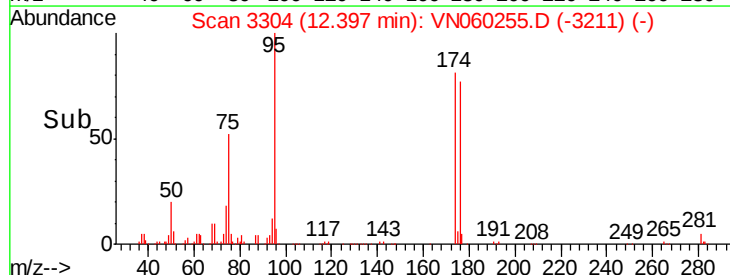
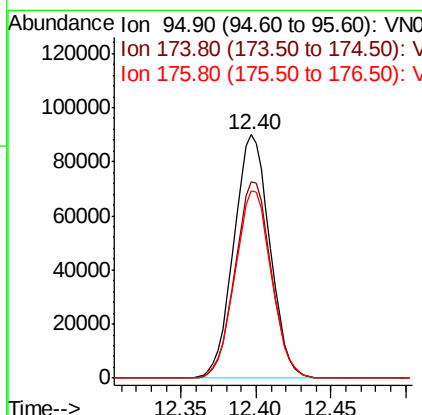
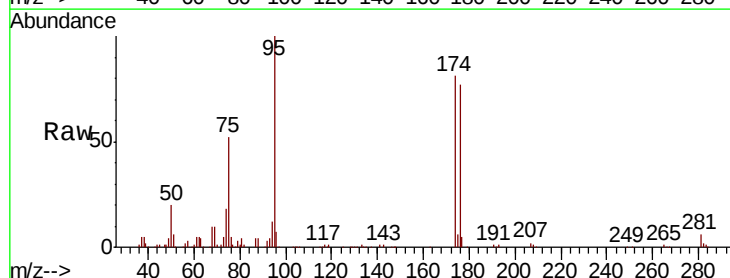
Instrument :
MSVOA_N
ClientSampled :

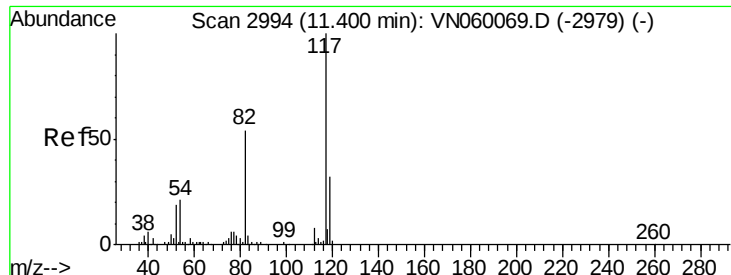
Tot Ion: 43 Resp: 67756
Ion Ratio Lower Upper
43 100
58 19.4 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 51.810 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060255.D
Acq: 26 Feb 2020 16:43

Tgt Ion: 95 Resp: 150704
Ion Ratio Lower Upper
95 100
174 81.1 0.0 169.8
176 78.2 0.0 164.8

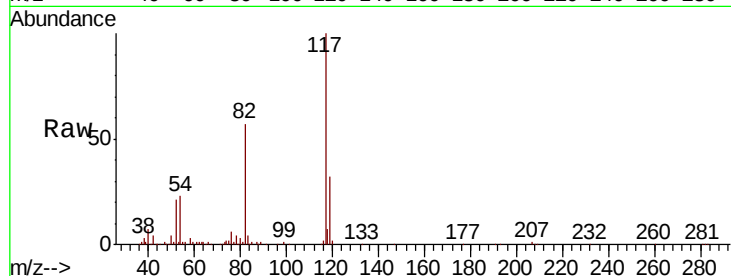




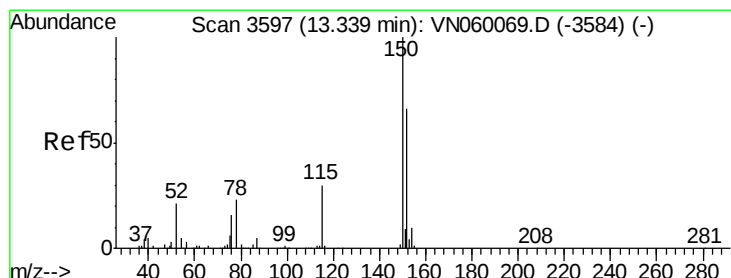
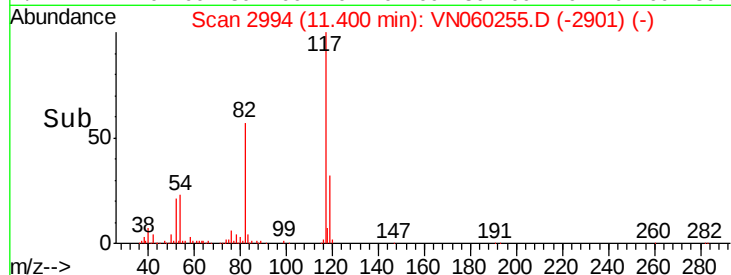
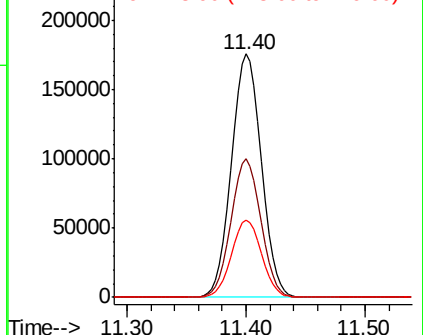
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060255.D
Acq: 26 Feb 2020 16:43

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 306086
Ion Ratio Lower Upper
117 100
82 56.8 43.4 65.0
119 31.7 25.8 38.6

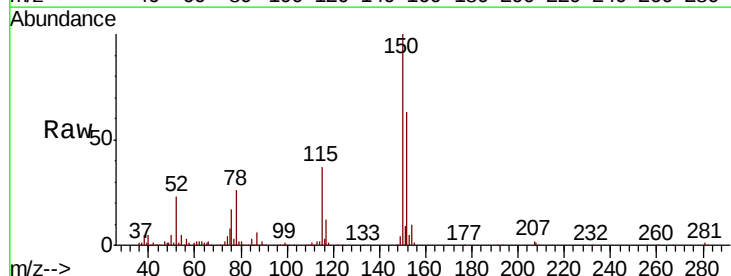


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

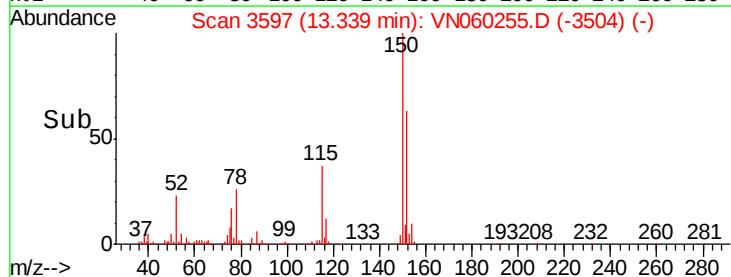
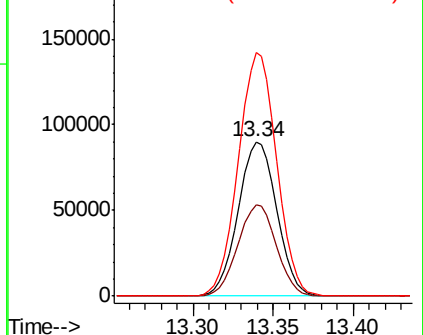


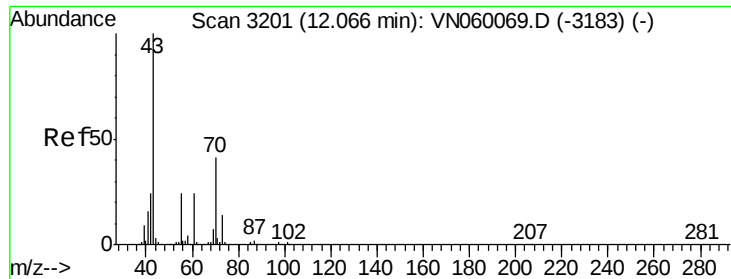
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060255.D
Acq: 26 Feb 2020 16:43

Tgt Ion:152 Resp: 147975
Ion Ratio Lower Upper
152 100
115 59.1 28.9 86.8
150 156.6 0.0 342.4



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





#74

N-amvl acetate

Concen: 0.982 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060255.D

Acq: 26 Feb 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3914

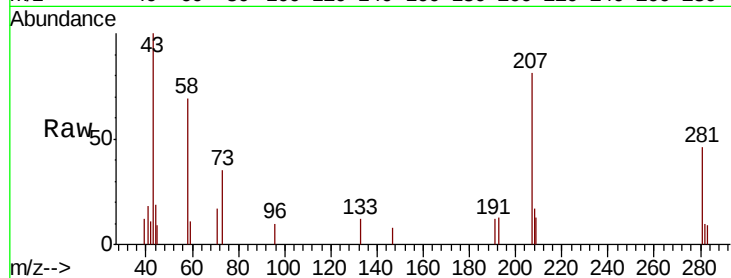
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 18.8 28.2#

61 0.0 19.2 28.8#

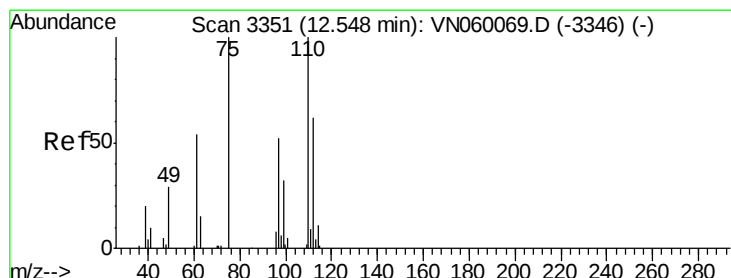
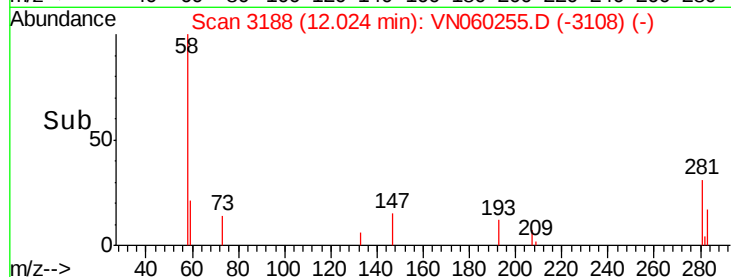
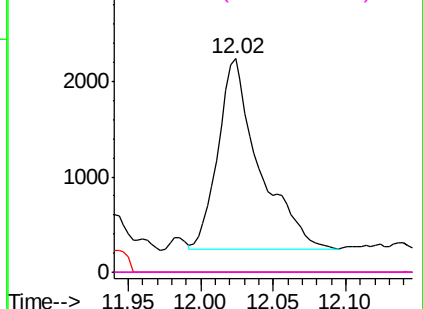


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 27.807 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060255.D

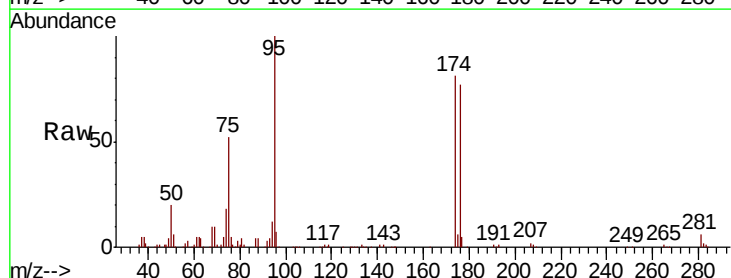
Acq: 26 Feb 2020 16:43

Tgt Ion: 75 Resp: 78723

Ion Ratio Lower Upper

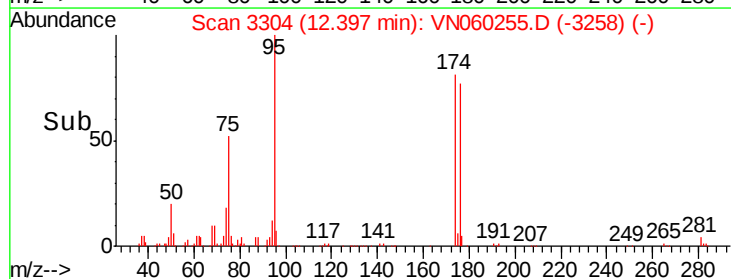
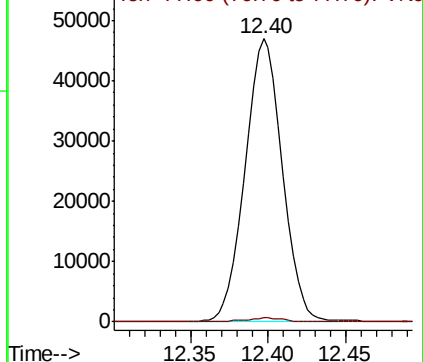
75 100

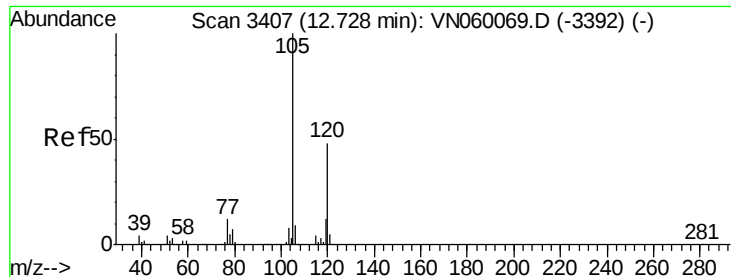
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.293 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060255.D

Acq: 26 Feb 2020 16:43

Instrument :

MSVOA_N

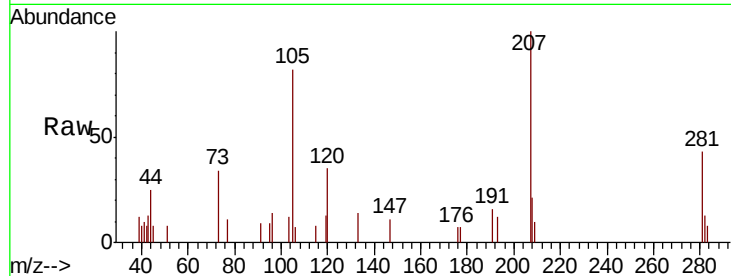
ClientSampleId :

Tot Ion:105 Resp: 2689

Ion Ratio Lower Upper

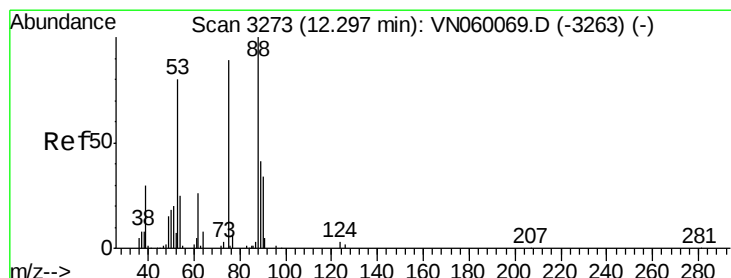
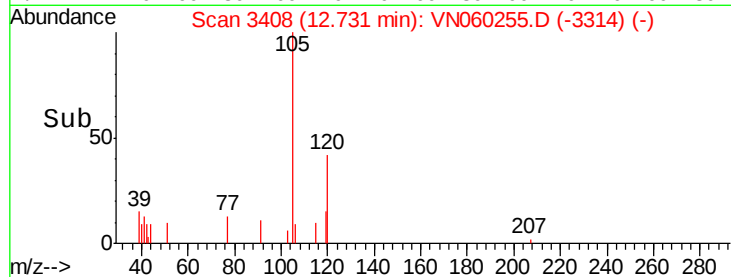
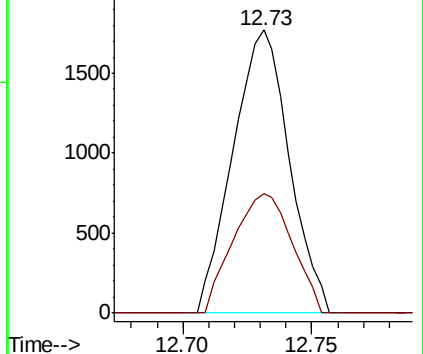
105 100

120 44.3 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 68.085 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060255.D

Acq: 26 Feb 2020 16:43

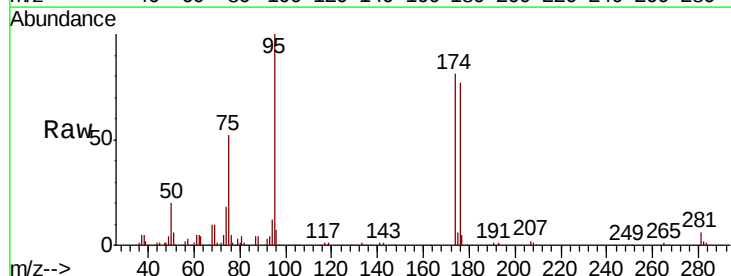
Tgt Ion: 75 Resp: 78723

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

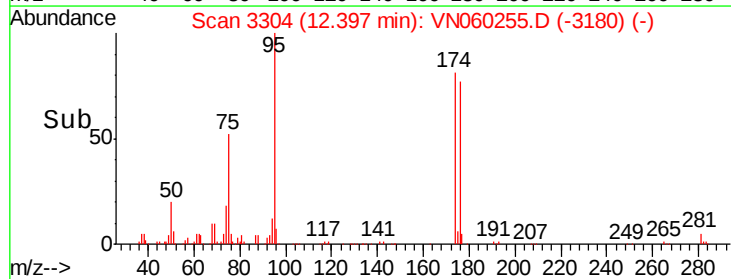
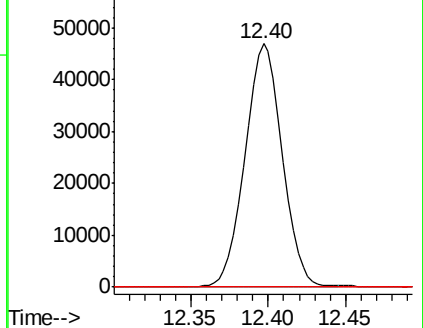
89 0.0 37.0 55.4#

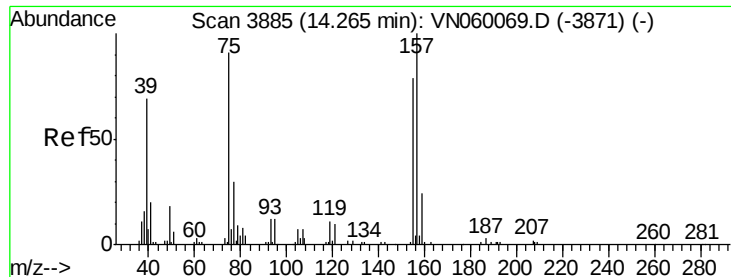


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3887

Delta R.T. 0.01 min

Lab File: VN060255.D

Acq: 26 Feb 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

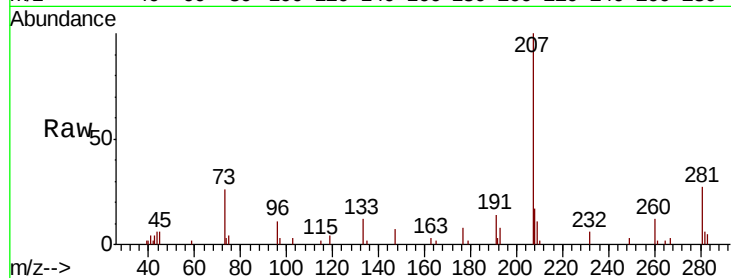
Tot Ion: 75 Resp: 71

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

157 0.0 54.9 164.5#



Abundance Ion 74.90 (74.60 to 75.60): VN060255.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN060255.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN060255.D (-3791) (-)

