

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022620\
 Data File : VN060254.D
 Acq On : 26 Feb 2020 16:20
 Operator : JC/MD
 Sample : L1676-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 27 04:34:56 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	214645	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	342536	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	325602	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	160170	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	134985	51.68	ug/l	0.00
Spiked Amount			Recovery	=	103.36%	
35) Dibromofluoromethane	7.57	113	98711	46.88	ug/l	0.00
Spiked Amount			Recovery	=	93.76%	
50) Toluene-d8	10.08	98	422859	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	
62) 4-Bromofluorobenzene	12.40	95	162426	53.31	ug/l	0.00
Spiked Amount			Recovery	=	106.62%	

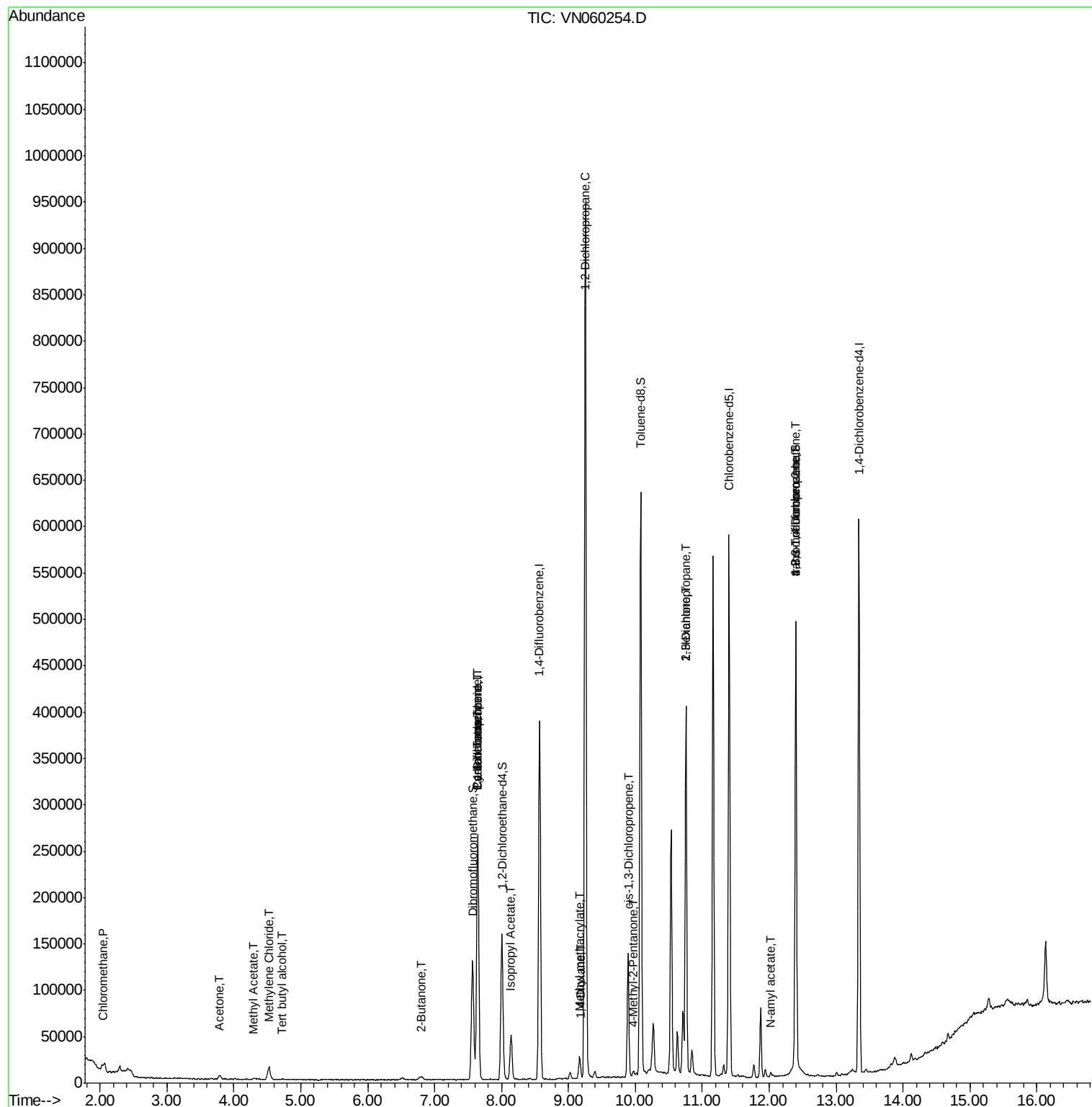
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	612	0.240	ug/l #	67
11) Tert butyl alcohol	4.73	59	431	1.103	ug/l #	72
16) Acetone	3.79	43	6878	6.037	ug/l	94
18) Methyl Acetate	4.28	43	1111	0.519	ug/l	96
20) Methylene Chloride	4.53	84	9495	4.177	ug/l	95
25) 2-Butanone	6.81	43	4697	3.278	ug/l	94
31) Cyclohexane	7.64	56	4330	1.172	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	17122	5.397	ug/l #	48
38) Carbon Tetrachloride	7.64	117	20510	5.952	ug/l #	15
43) Isopropyl Acetate	8.14	43	57981	11.829	ug/l #	88
45) 1,2-Dichloropropane	9.26	63	1076	0.462	ug/l #	43
48) Methyl methacrylate	9.16	41	3570	1.623	ug/l #	9
49) 1,4-Dioxane	9.19	88	59	1.570	ug/l #	25
51) 4-Methyl-2-Pentanone	9.97	43	4120	1.452	ug/l #	82
54) cis-1,3-Dichloropropene	9.89	75	24695	6.206	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	4214	1.085	ug/l #	43
59) 2-Hexanone	10.75	43	60064	27.406	ug/l #	52
74) N-amyl acetate	12.02	43	4052	0.939	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	84591	27.604	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	84591	67.590	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.35	75	57	Below Cal	#	1

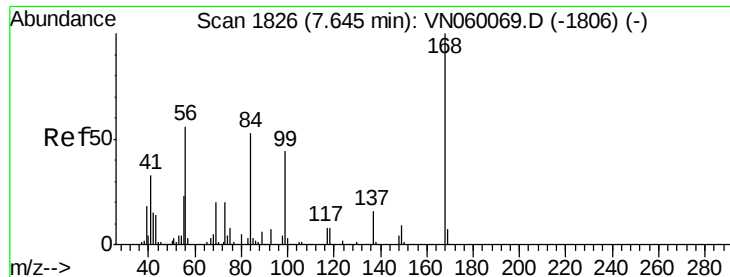
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060254.D

Acq: 26 Feb 2020 16:20

Instrument :

MSVOA_N

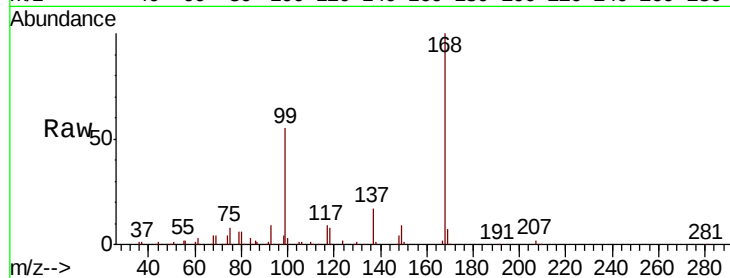
ClientSampleId :

Tot Ion:168 Resp: 214645

Ion Ratio Lower Upper

168 100

99 55.2 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.64

100000

80000

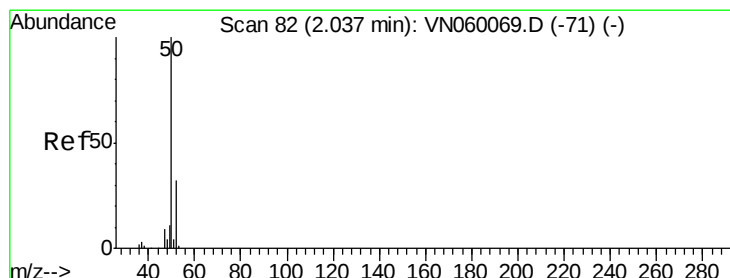
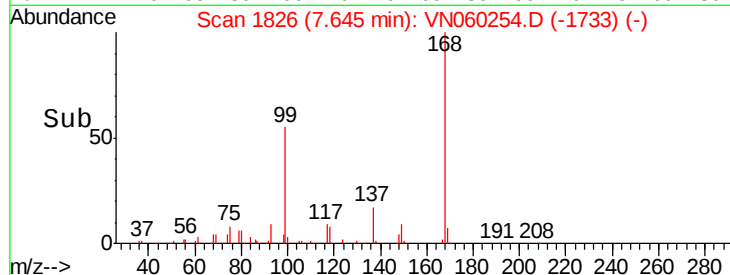
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.240 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN060254.D

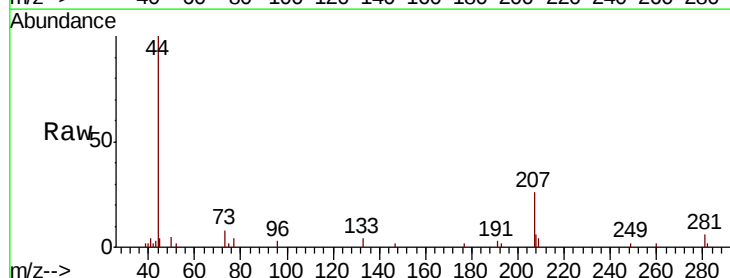
Acq: 26 Feb 2020 16:20

Tgt Ion: 50 Resp: 612

Ion Ratio Lower Upper

50 100

52 50.3 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

500

400

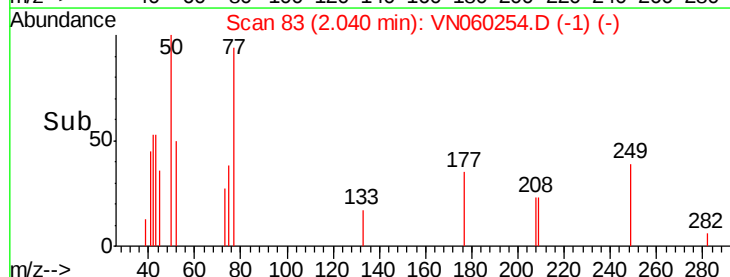
300

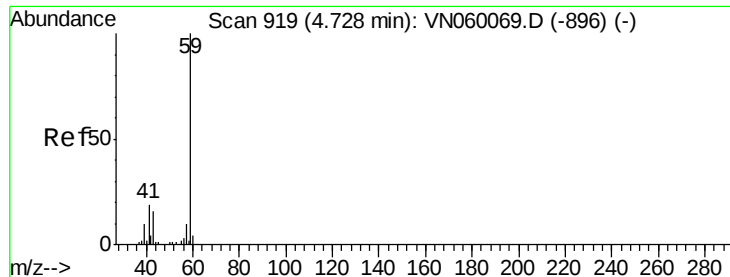
200

100

0

Time-->



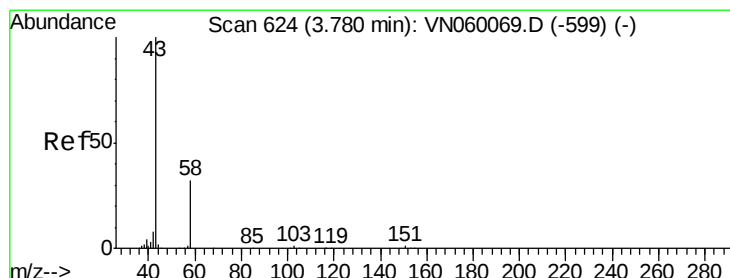
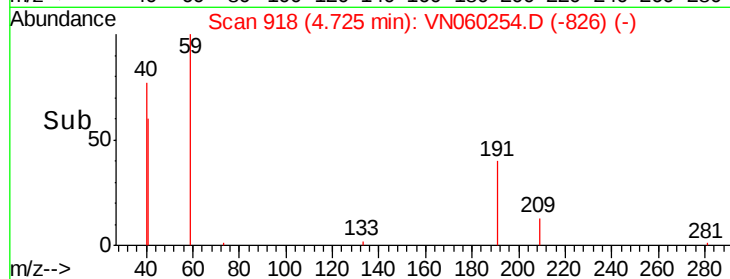
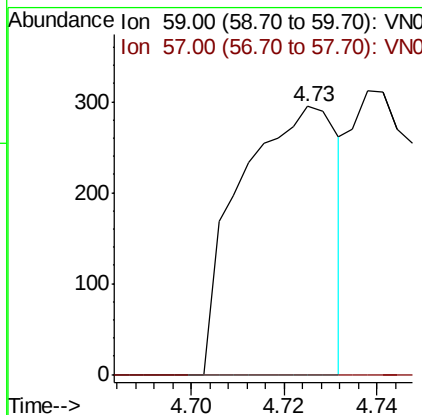
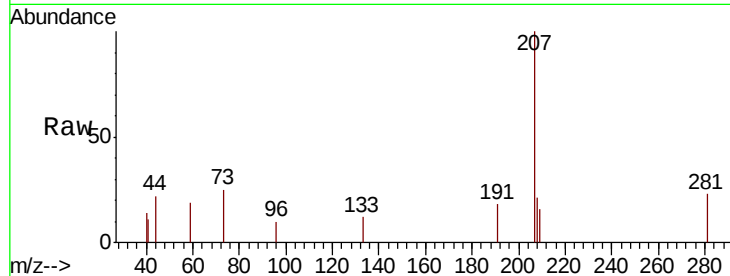


#11

Tert butyl alcohol
 Concen: 1.103 ug/l
 RT: 4.73 min Scan# 918
 Delta R.T. -0.00 min
 Lab File: VN060254.D
 Acq: 26 Feb 2020 16:20

Instrument :
 MSVOA_N
 ClientSampleId :

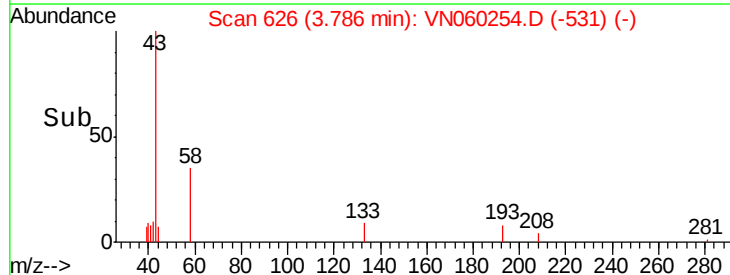
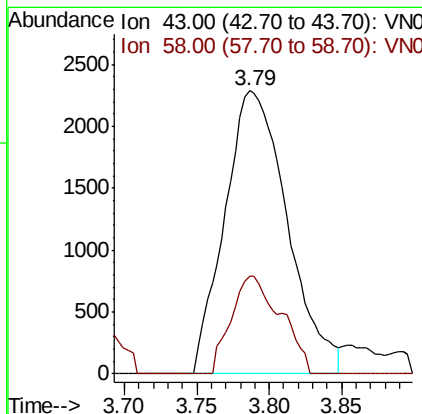
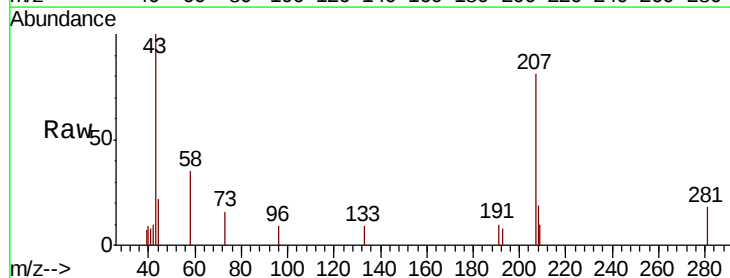
Tot Ion: 59 Resp: 431
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

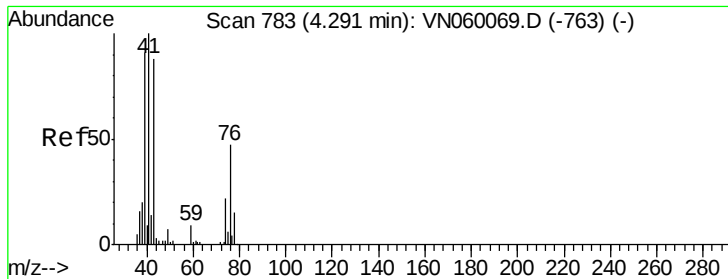


#16

Acetone
 Concen: 6.037 ug/l
 RT: 3.79 min Scan# 626
 Delta R.T. 0.01 min
 Lab File: VN060254.D
 Acq: 26 Feb 2020 16:20

Tgt Ion: 43 Resp: 6878
 Ion Ratio Lower Upper
 43 100
 58 34.6 25.2 37.8

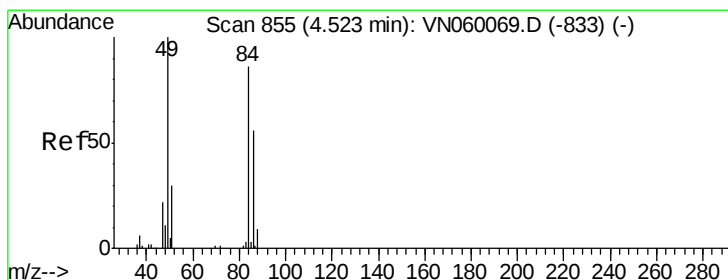
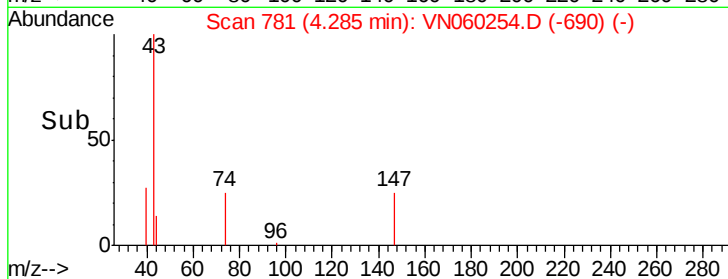
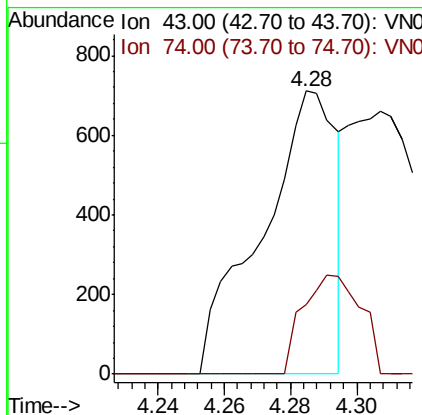
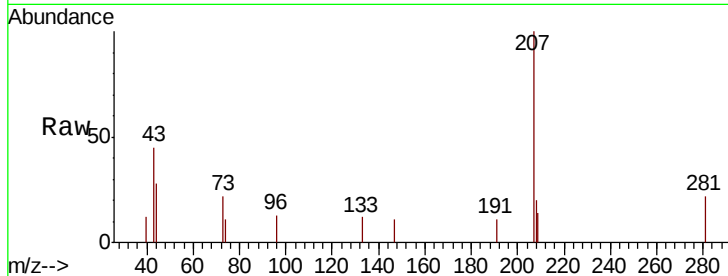




#18
Methyl Acetate
Concen: 0.519 ug/l
RT: 4.28 min Scan# 781
Delta R.T. -0.01 min
Lab File: VN060254.D
Acq: 26 Feb 2020 16:20

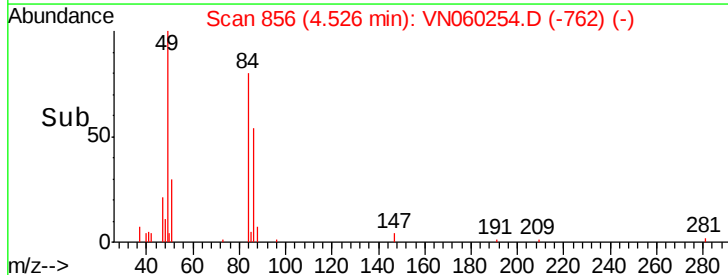
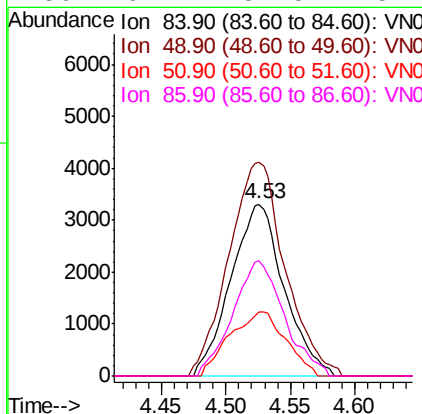
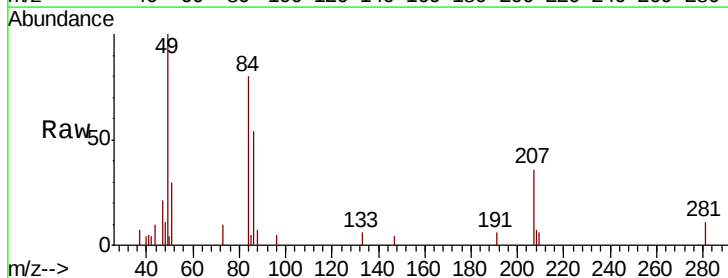
Instrument :
MSVOA_N
ClientSampleId :

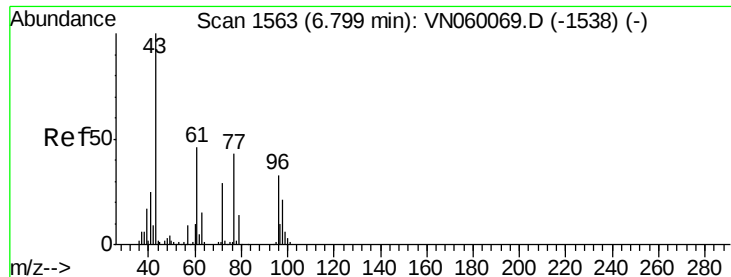
Tot Ion: 43 Resp: 1111
Ion Ratio Lower Upper
43 100
74 27.2 20.3 30.5



#20
Methylene Chloride
Concen: 4.177 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060254.D
Acq: 26 Feb 2020 16:20

Tgt Ion: 84 Resp: 9495
Ion Ratio Lower Upper
84 100
49 124.3 93.4 140.0
51 37.1 28.4 42.6
86 67.1 52.5 78.7

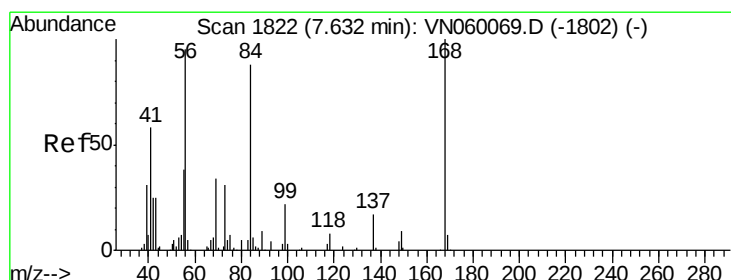
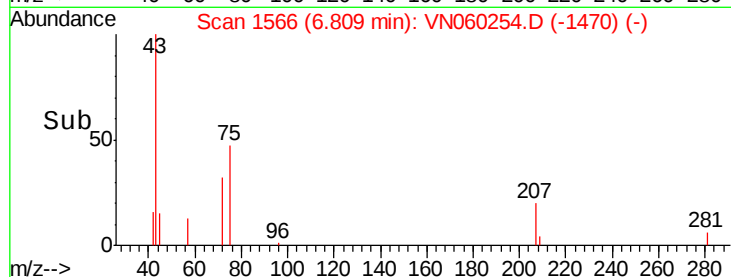
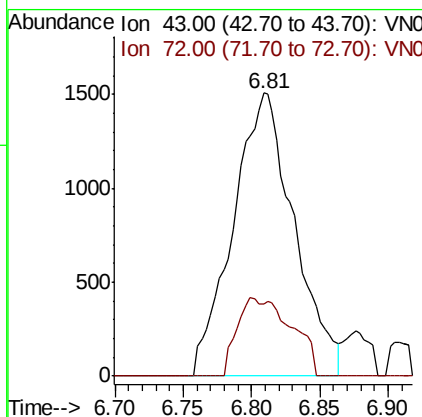
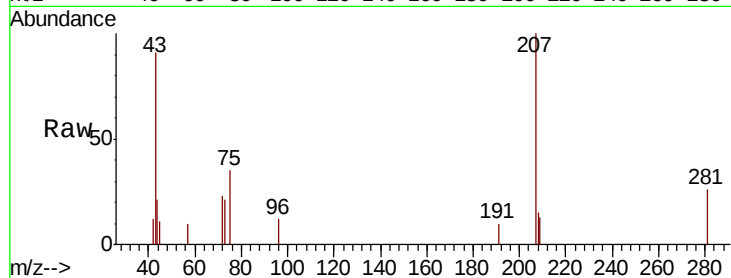




#25
2-Butanone
Concen: 3.278 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VN060254.D
Acq: 26 Feb 2020 16:20

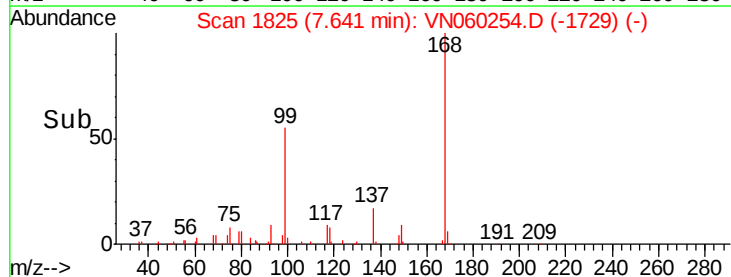
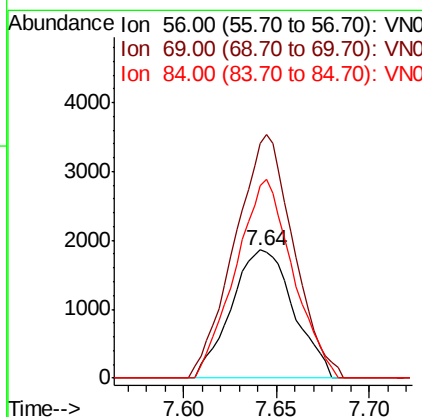
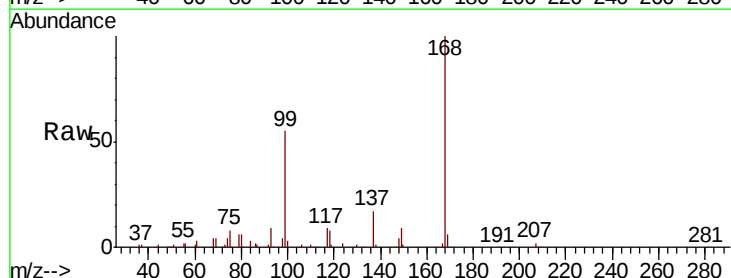
Instrument :
MSVOA_N
ClientSampleId :

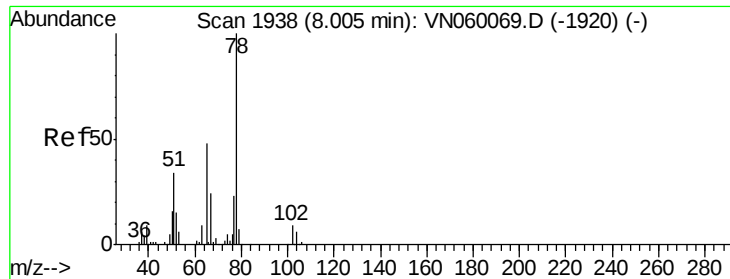
Tot Ion: 43 Resp: 4697
Ion Ratio Lower Upper
43 100
72 25.7 23.3 34.9



#31
Cyclohexane
Concen: 1.172 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060254.D
Acq: 26 Feb 2020 16:20

Tgt Ion: 56 Resp: 4330
Ion Ratio Lower Upper
56 100
69 184.1 28.3 42.5#
84 151.0 72.6 108.8#

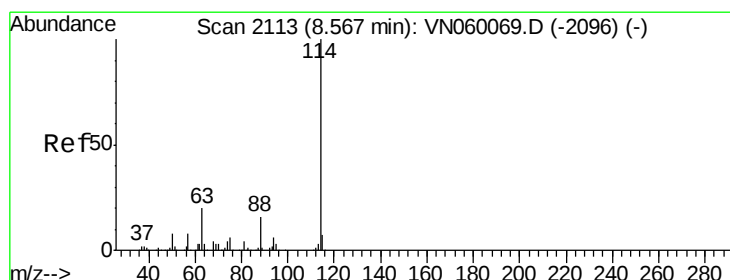
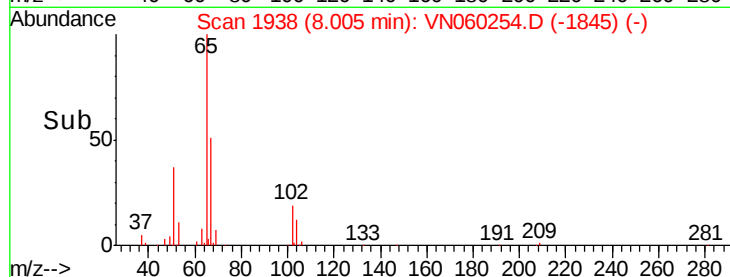
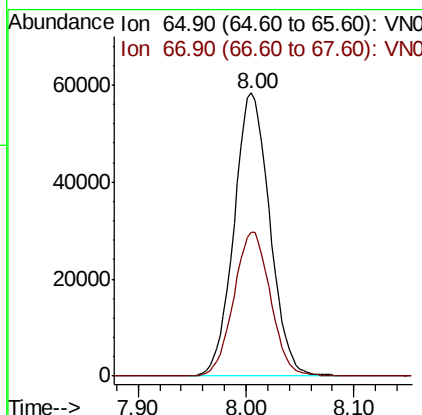
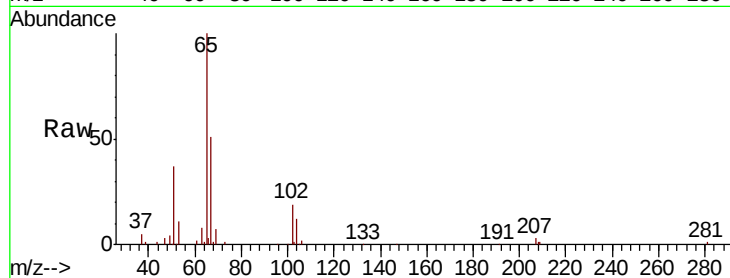




#33
 1,2-Dichloroethane-d4
 Concen: 51.681 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060254.D
 Acq: 26 Feb 2020 16:20

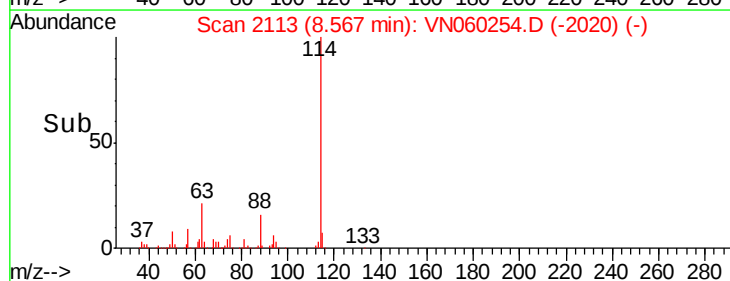
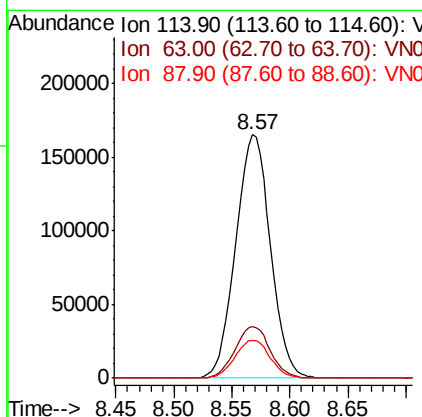
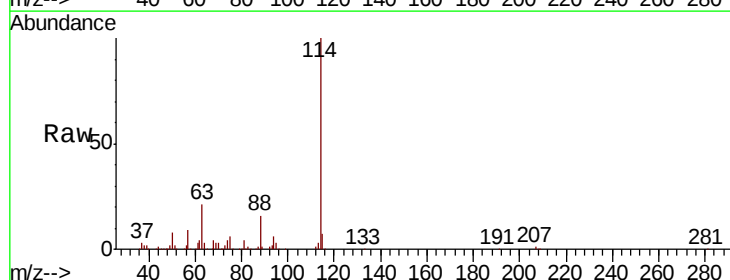
Instrument :
 MSVOA_N
 ClientSampleId :

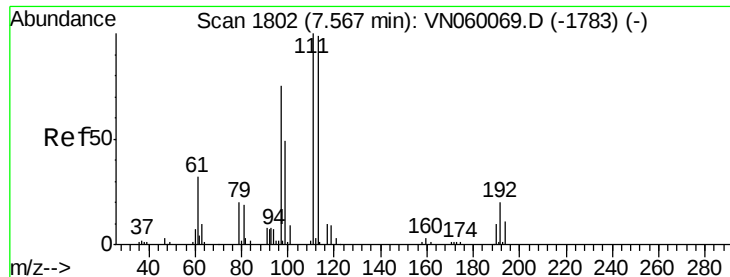
Tot Ion: 65 Resp: 134985
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060254.D
 Acq: 26 Feb 2020 16:20

Tgt Ion: 114 Resp: 342536
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 40.0
 88 15.7 0.0 31.6

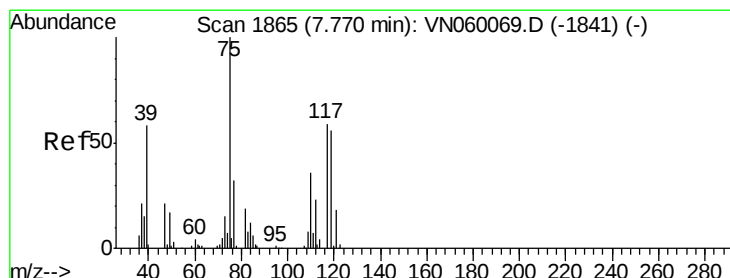
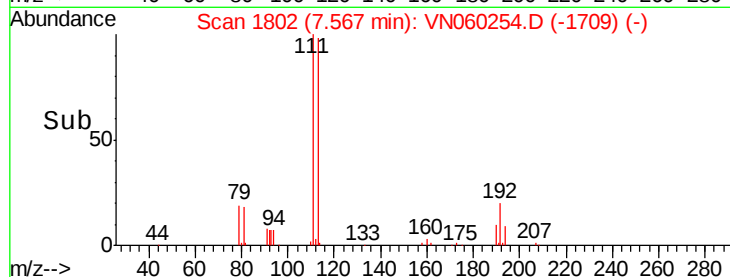
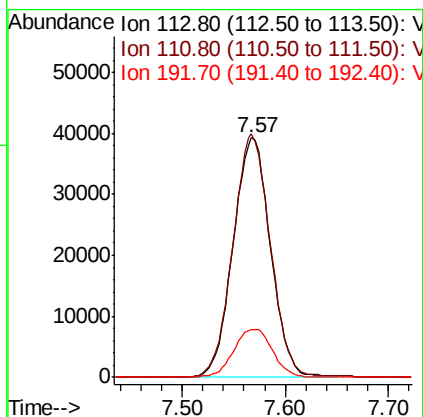
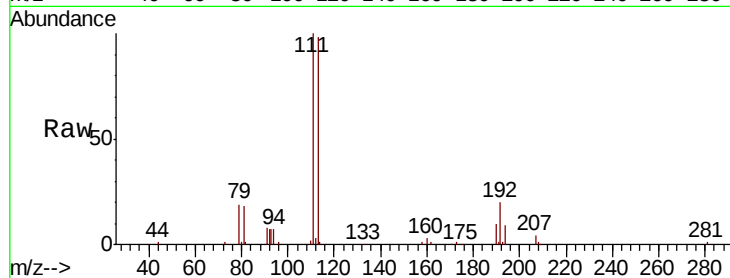




#35
 Dibromofluoromethane
 Concen: 46.881 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060254.D
 Acq: 26 Feb 2020 16:20

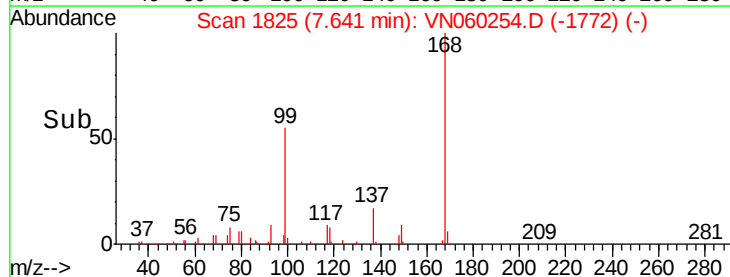
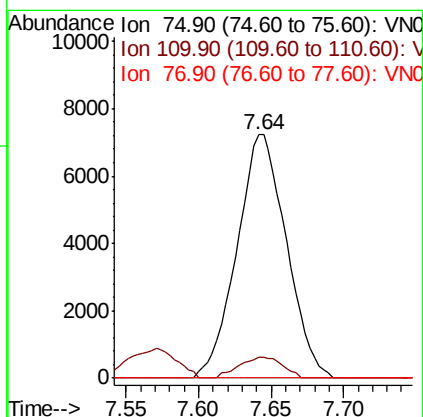
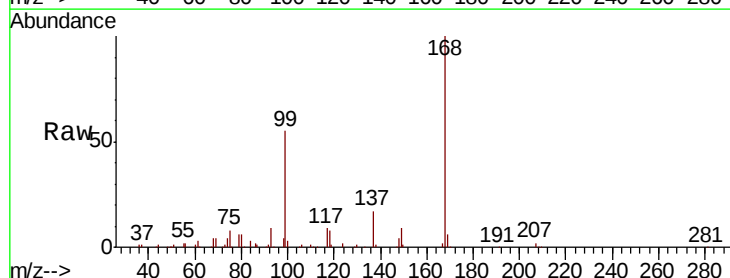
Instrument :
 MSVOA_N
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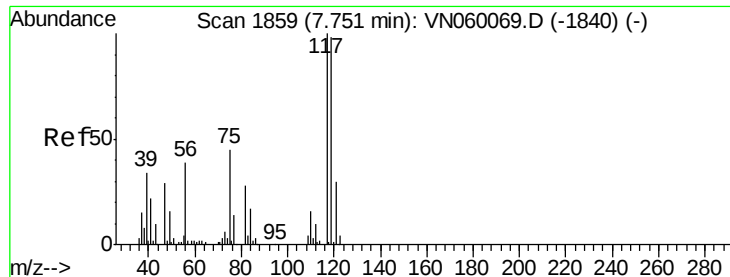
Tot Ion:113 Resp: 98711
 Ion Ratio Lower Upper
 113 100
 111 101.3 81.4 122.2
 192 20.7 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 5.397 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060254.D
 Acq: 26 Feb 2020 16:20

Tgt Ion: 75 Resp: 17122
 Ion Ratio Lower Upper
 75 100
 110 7.6 18.1 54.3#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 5.952 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060254.D

Acq: 26 Feb 2020 16:20

Instrument :

MSVOA_N

ClientSampleId :

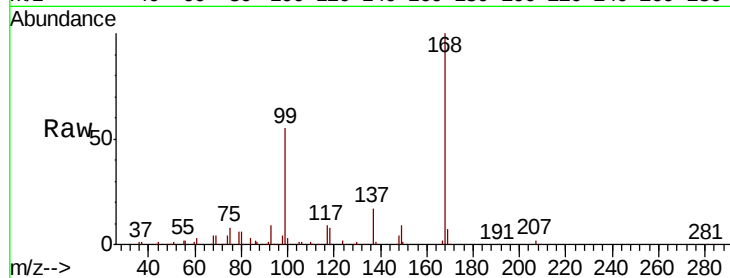
Tot Ion:117 Resp: 20510

Ion Ratio Lower Upper

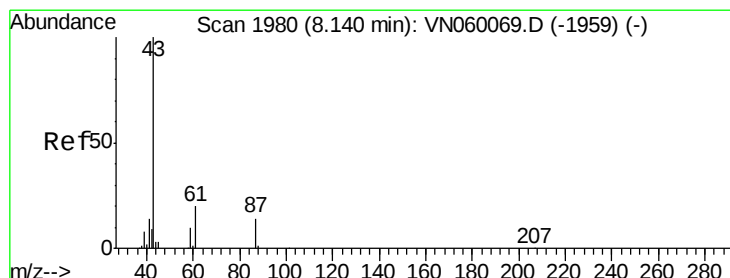
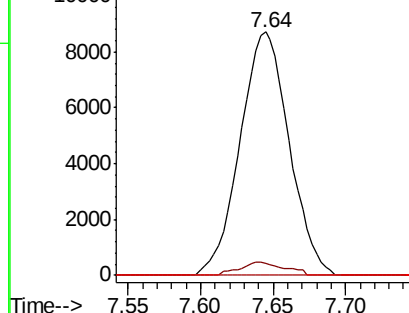
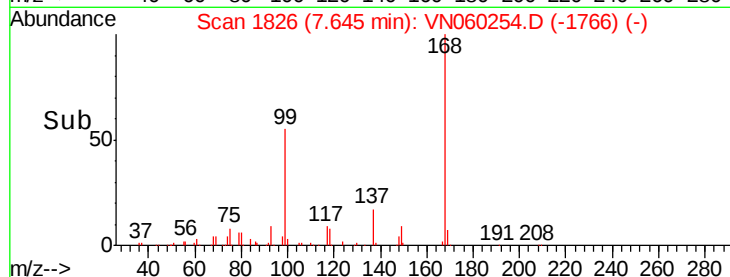
117 100

119 5.0 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: 11.829 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060254.D

Acq: 26 Feb 2020 16:20

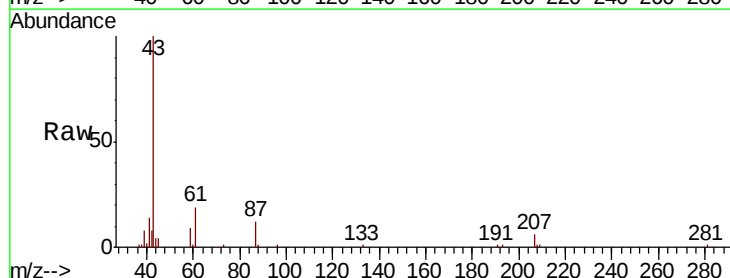
Tgt Ion: 43 Resp: 57981

Ion Ratio Lower Upper

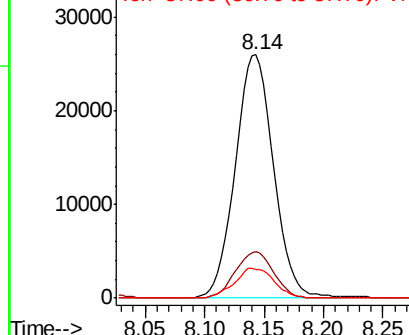
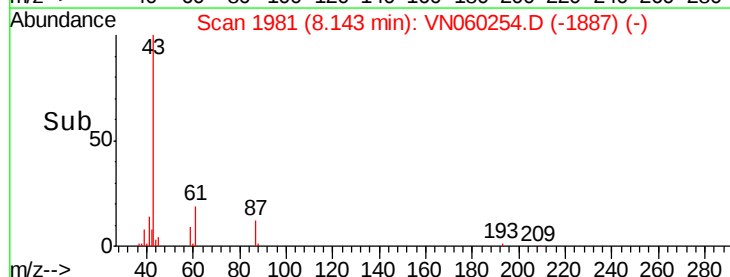
43 100

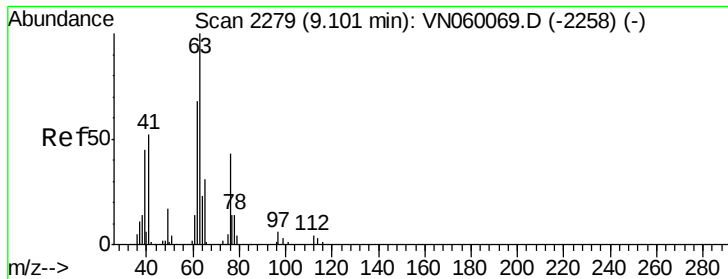
61 18.9 21.8 32.6#

87 12.7 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: 0.462 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.15 min

Lab File: VN060254.D

Acq: 26 Feb 2020 16:20

Instrument :

MSVOA_N

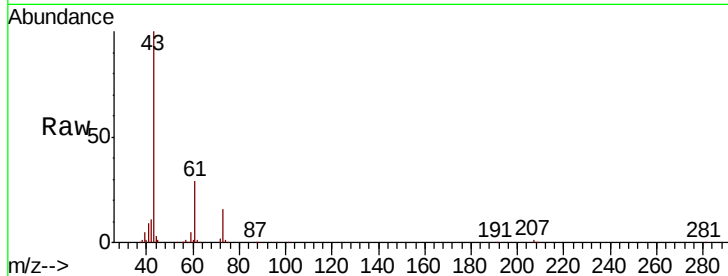
ClientSampleId :

Tot Ion: 63 Resp: 1076

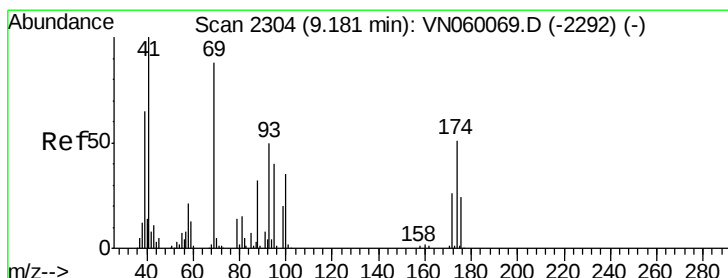
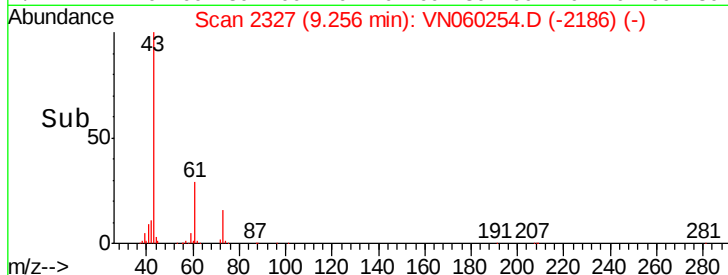
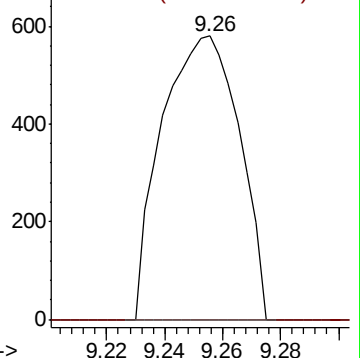
Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN060069.D (-2258) (-)



#48

Methyl methacrylate

Concen: 1.623 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060254.D

Acq: 26 Feb 2020 16:20

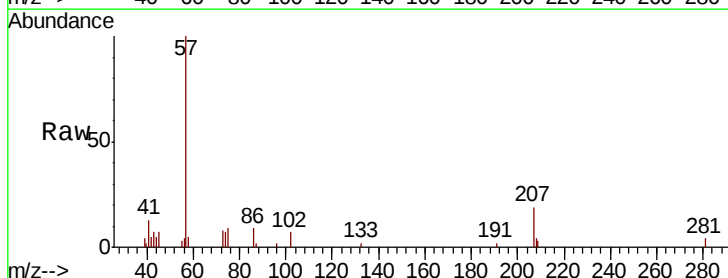
Tgt Ion: 41 Resp: 3570

Ion Ratio Lower Upper

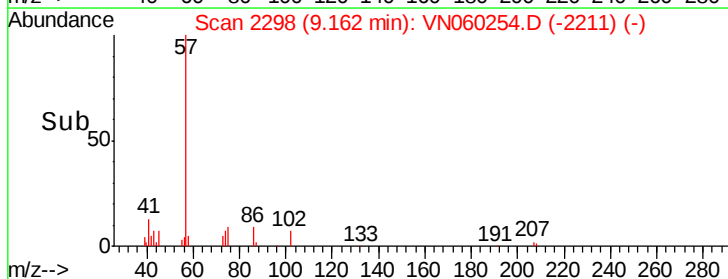
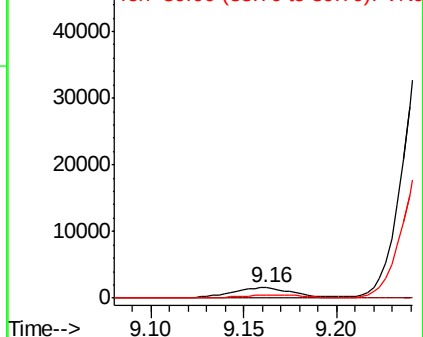
41 100

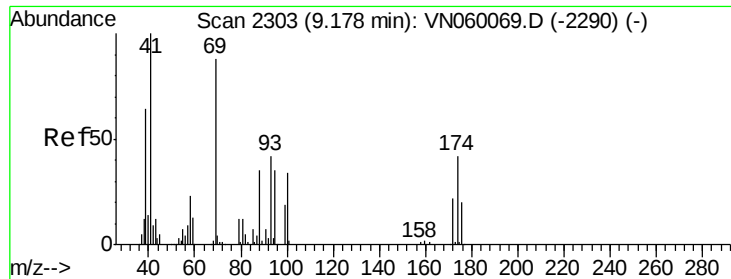
69 0.0 72.0 108.0#

39 0.0 54.1 81.1#



Abundance Ion 41.00 (40.70 to 41.70): VN060069.D (-2292) (-)

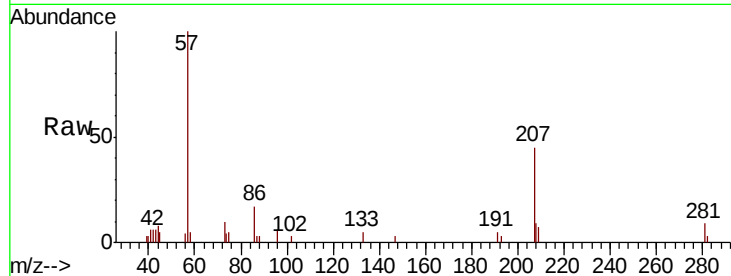




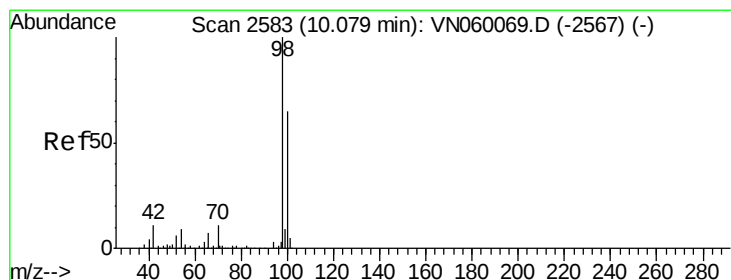
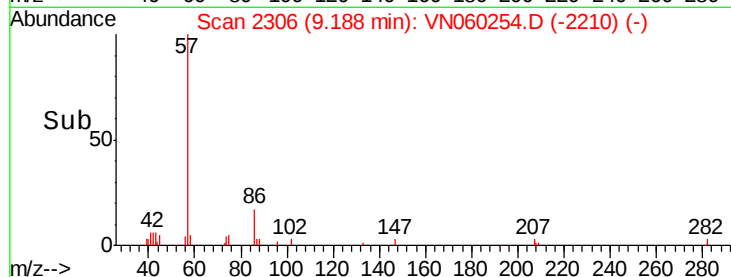
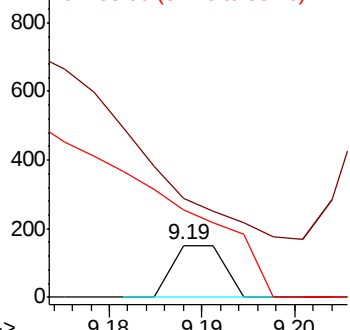
#49
1,4-Dioxane
Concen: 1.570 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. 0.01 min
Lab File: VN060254.D
Acq: 26 Feb 2020 16:20

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 0.0 26.2 39.2#
58 0.0 53.2 79.8#

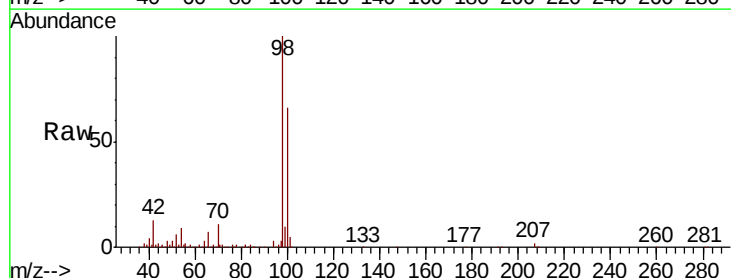


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

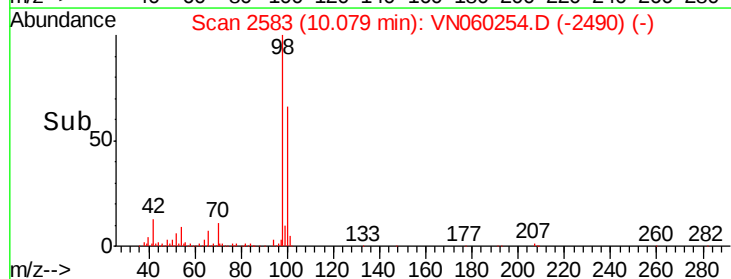
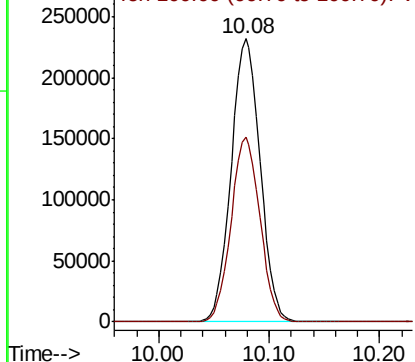


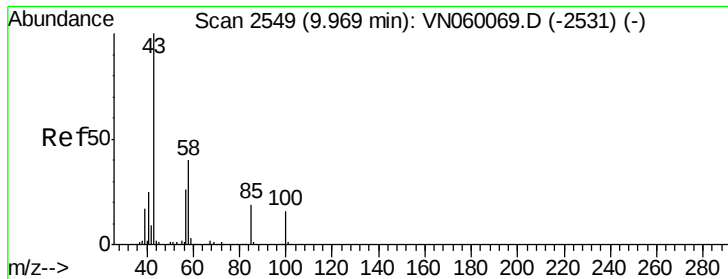
#50
Toluene-d8
Concen: 50.998 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060254.D
Acq: 26 Feb 2020 16:20

Tgt Ion: 98 Resp: 422859
Ion Ratio Lower Upper
98 100
100 65.1 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: 1.452 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060254.D

Acq: 26 Feb 2020 16:20

Instrument :

MSVOA_N

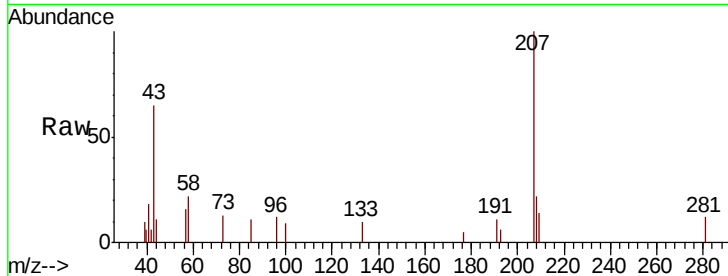
ClientSampled :

Tot Ion: 43 Resp: 4120

Ion Ratio Lower Upper

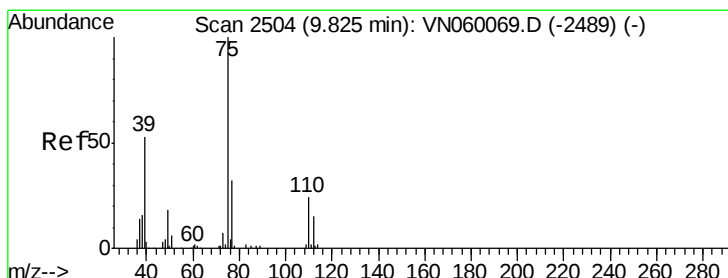
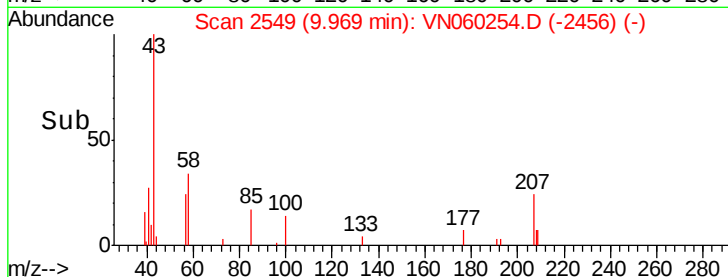
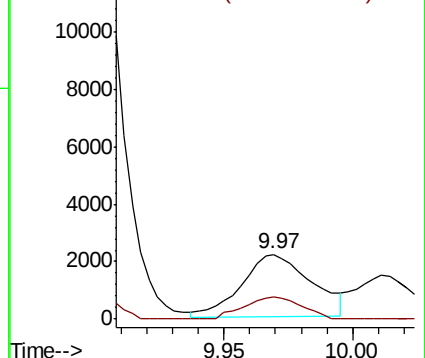
43 100

58 29.0 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) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.206 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060254.D

Acq: 26 Feb 2020 16:20

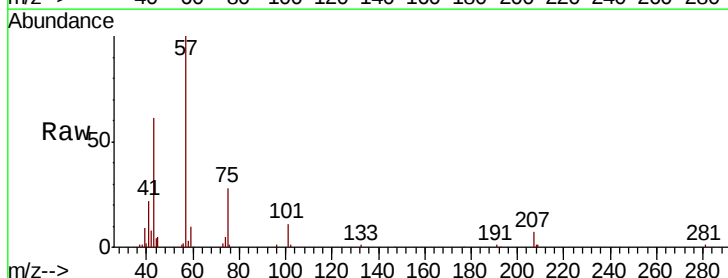
Tgt Ion: 75 Resp: 24695

Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

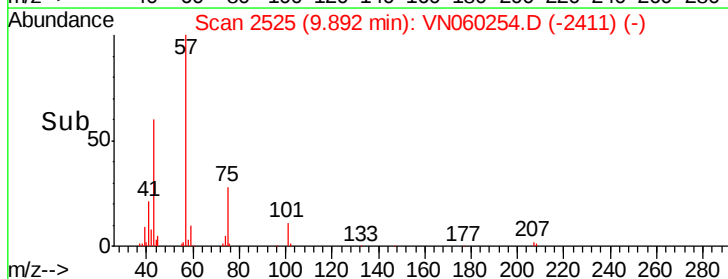
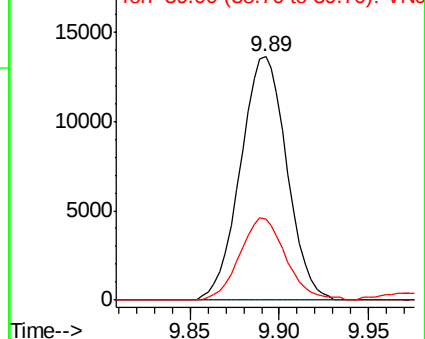
39 33.5 42.2 63.4#

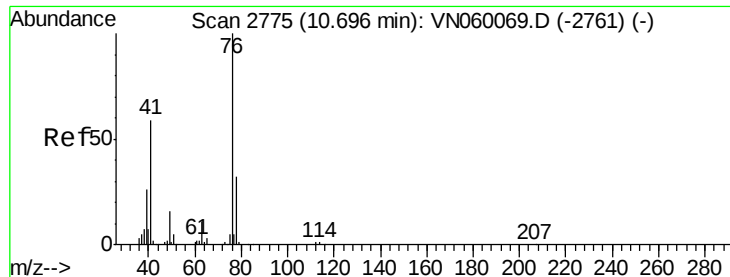


Abundance Ion 74.90 (74.60 to 75.60): VN060069.D (-2489) (-)

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

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

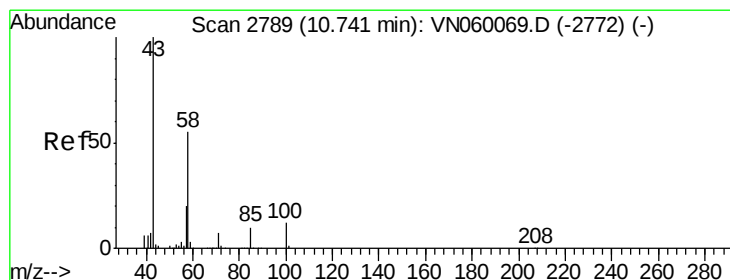
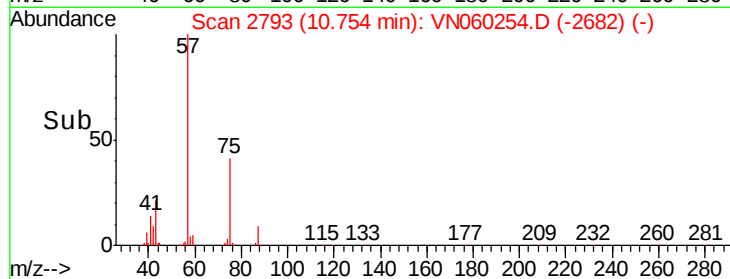
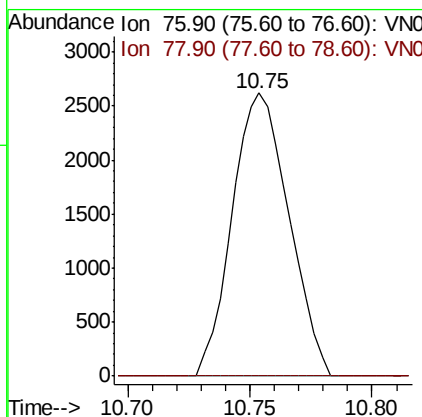
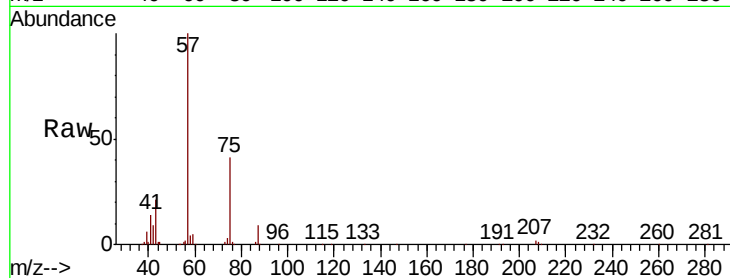




#57
 1,3-Dichloropropane
 Concen: 1.085 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060254.D
 Acq: 26 Feb 2020 16:20

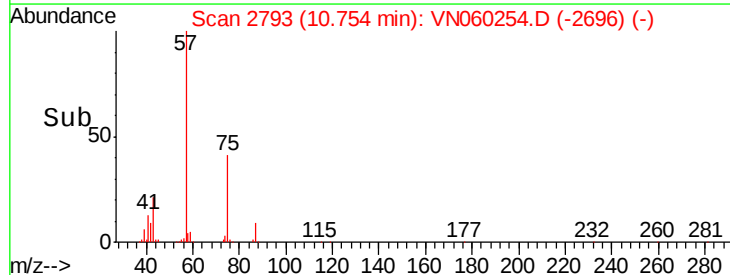
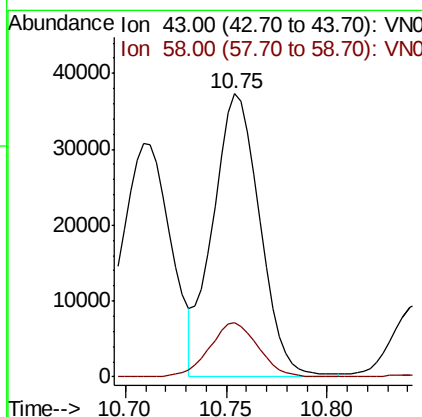
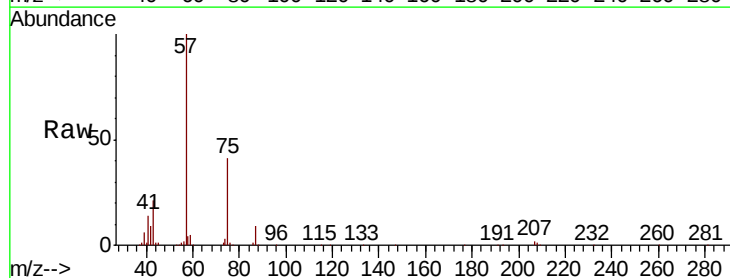
Instrument :
 MSVOA_N
 ClientSampled :

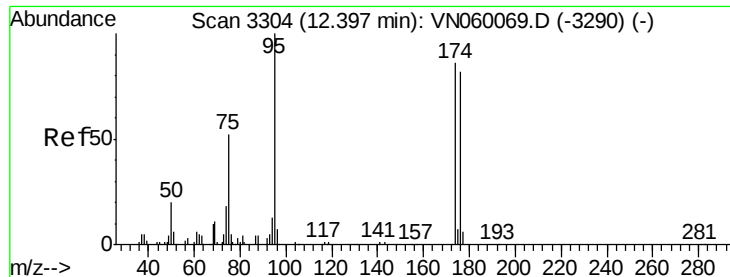
Tot Ion: 76 Resp: 4214
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 27.406 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060254.D
 Acq: 26 Feb 2020 16:20

Tgt Ion: 43 Resp: 60064
 Ion Ratio Lower Upper
 43 100
 58 19.9 27.5 82.4#





#62

4-Bromofluorobenzene

Concen: 53.311 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060254.D

Acq: 26 Feb 2020 16:20

Instrument :

MSVOA_N

ClientSampleId :

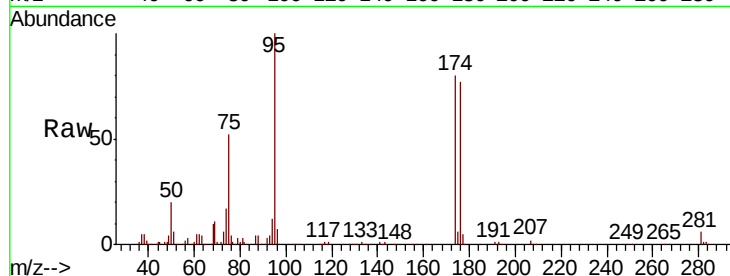
Tot Ion: 95 Resp: 162426

Ion Ratio Lower Upper

95 100

174 80.5 0.0 169.8

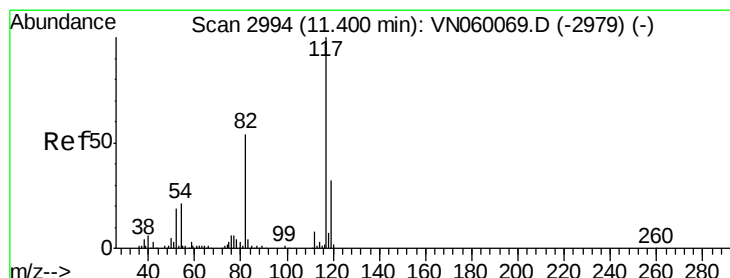
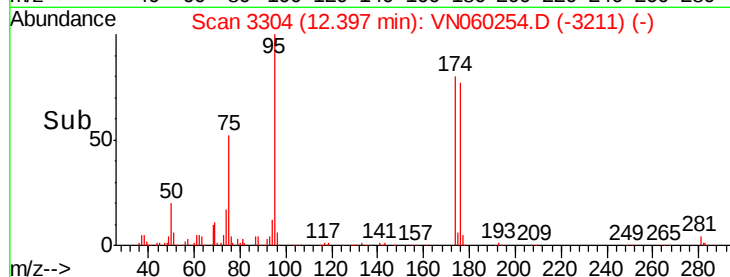
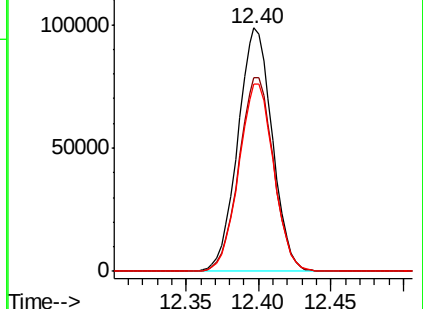
176 78.3 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN060069.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060069.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060069.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060254.D

Acq: 26 Feb 2020 16:20

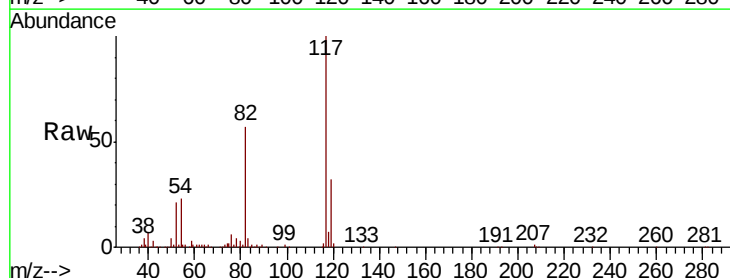
Tgt Ion: 117 Resp: 325602

Ion Ratio Lower Upper

117 100

82 56.7 43.4 65.0

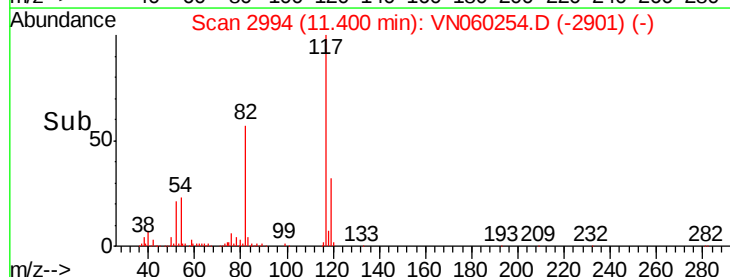
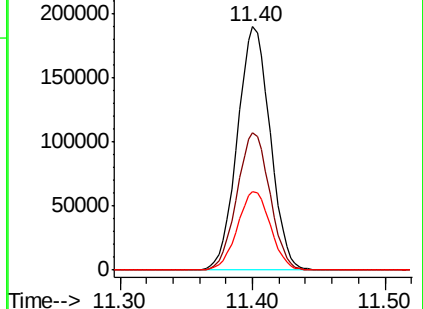
119 32.2 25.8 38.6

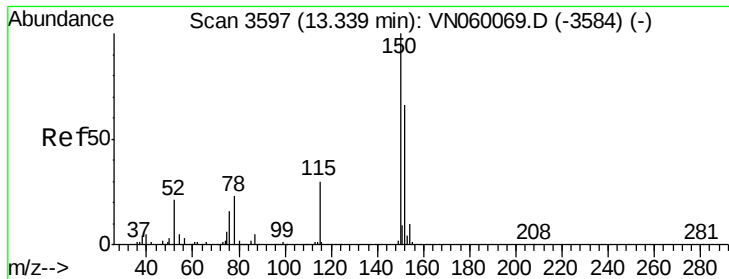


Abundance Ion 116.90 (116.60 to 117.60): VN060069.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060069.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060069.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN060254.D

Acq: 26 Feb 2020 16:20

Instrument :

MSVOA_N

ClientSampleId :

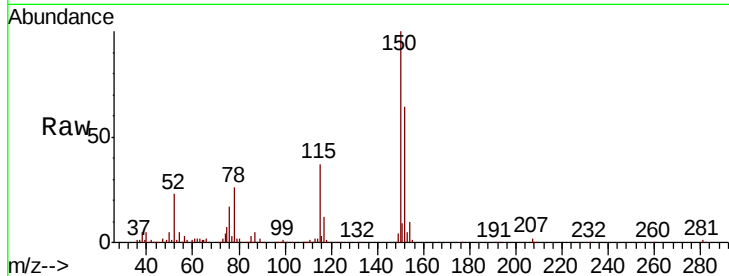
Tot Ion:152 Resp: 160170

Ion Ratio Lower Upper

152 100

115 58.9 28.9 86.8

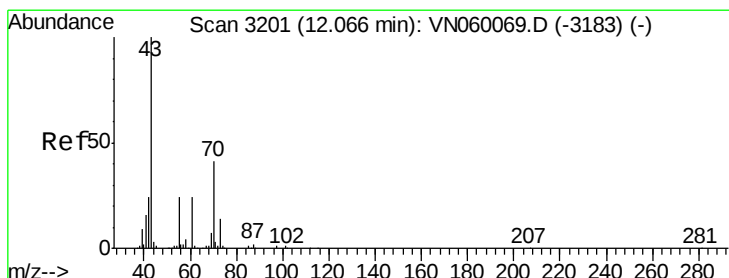
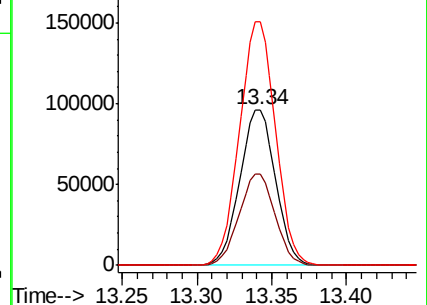
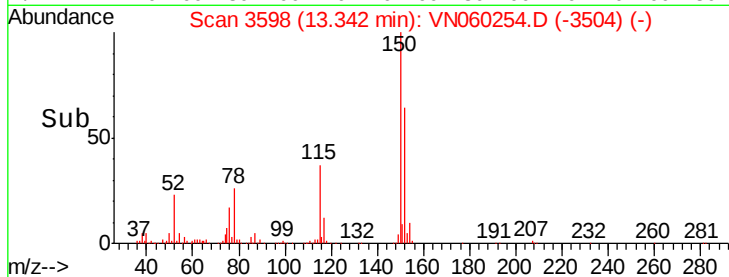
150 157.5 0.0 342.4



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-ethyl acetate

Concen: 0.939 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060254.D

Acq: 26 Feb 2020 16:20

Tgt Ion: 43 Resp: 4052

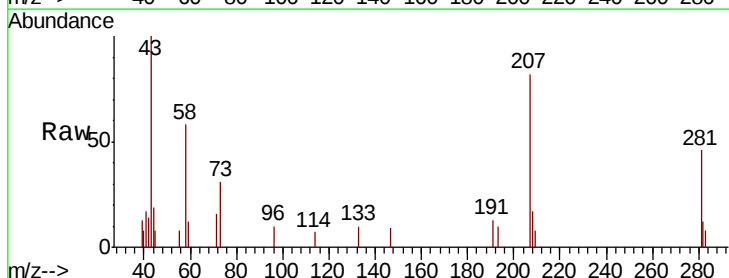
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 2.5 18.8 28.2#

61 0.0 19.2 28.8#

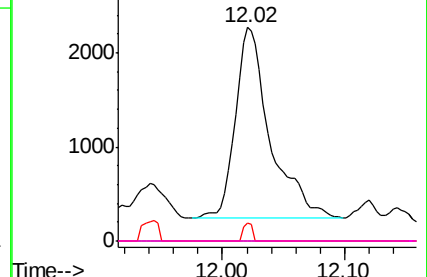
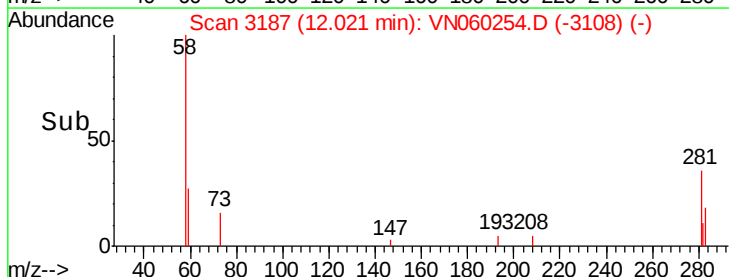


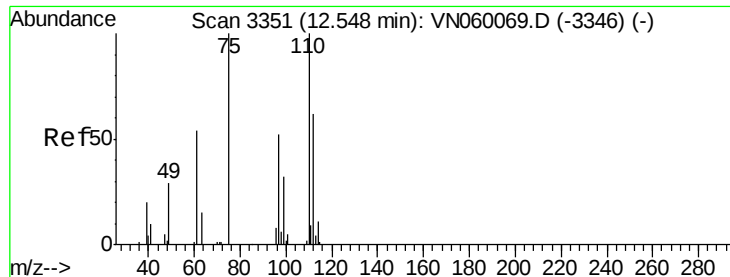
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 27.604 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060254.D

Acq: 26 Feb 2020 16:20

Instrument :

MSVOA_N

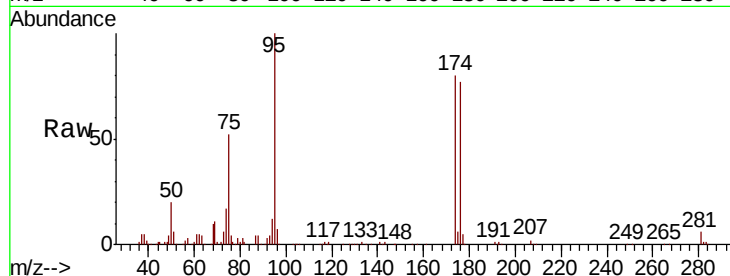
ClientSampled :

Tot Ion: 75 Resp: 84591

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

12.40

60000

50000

40000

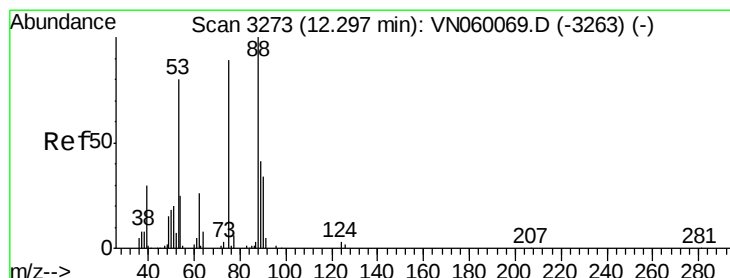
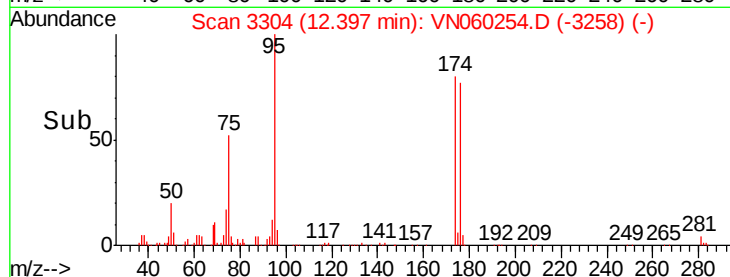
30000

20000

10000

0

Time--> 12.30 12.40



#81

trans-1,4-Dichloro-2-butene

Concen: 67.590 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060254.D

Acq: 26 Feb 2020 16:20

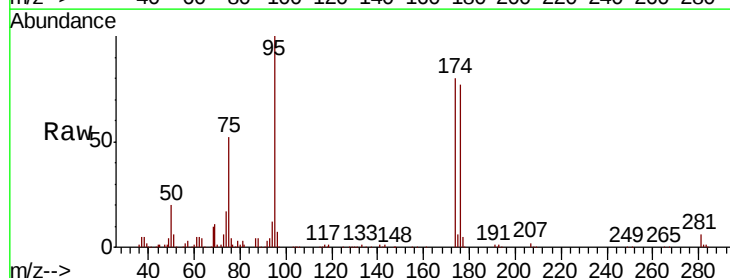
Tgt Ion: 75 Resp: 84591

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

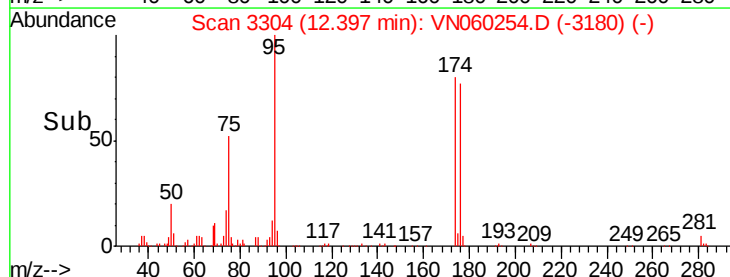
60000

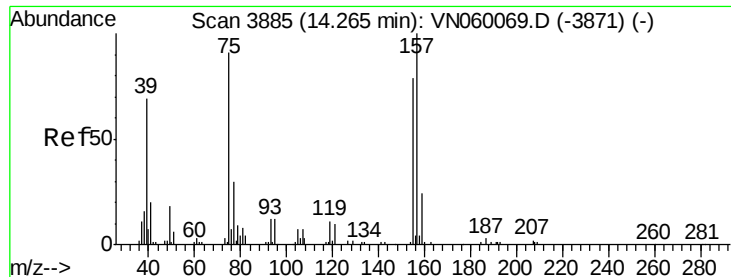
40000

20000

0

Time--> 12.30 12.40





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.35 min Scan# 3912

Delta R.T. 0.09 min

Lab File: VN060254.D

Acq: 26 Feb 2020 16:20

Instrument :

MSVOA_N

ClientSampleId :

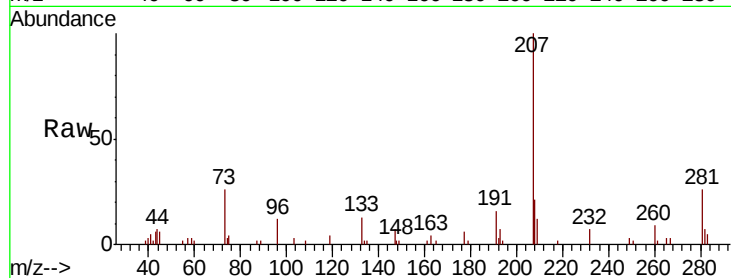
Tot Ion: 75 Resp: 57

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): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

