

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030620\
 Data File : VN060375.D
 Acq On : 6 Mar 2020 13:12
 Operator : JC/MD
 Sample : L1828-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 07 00:55:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

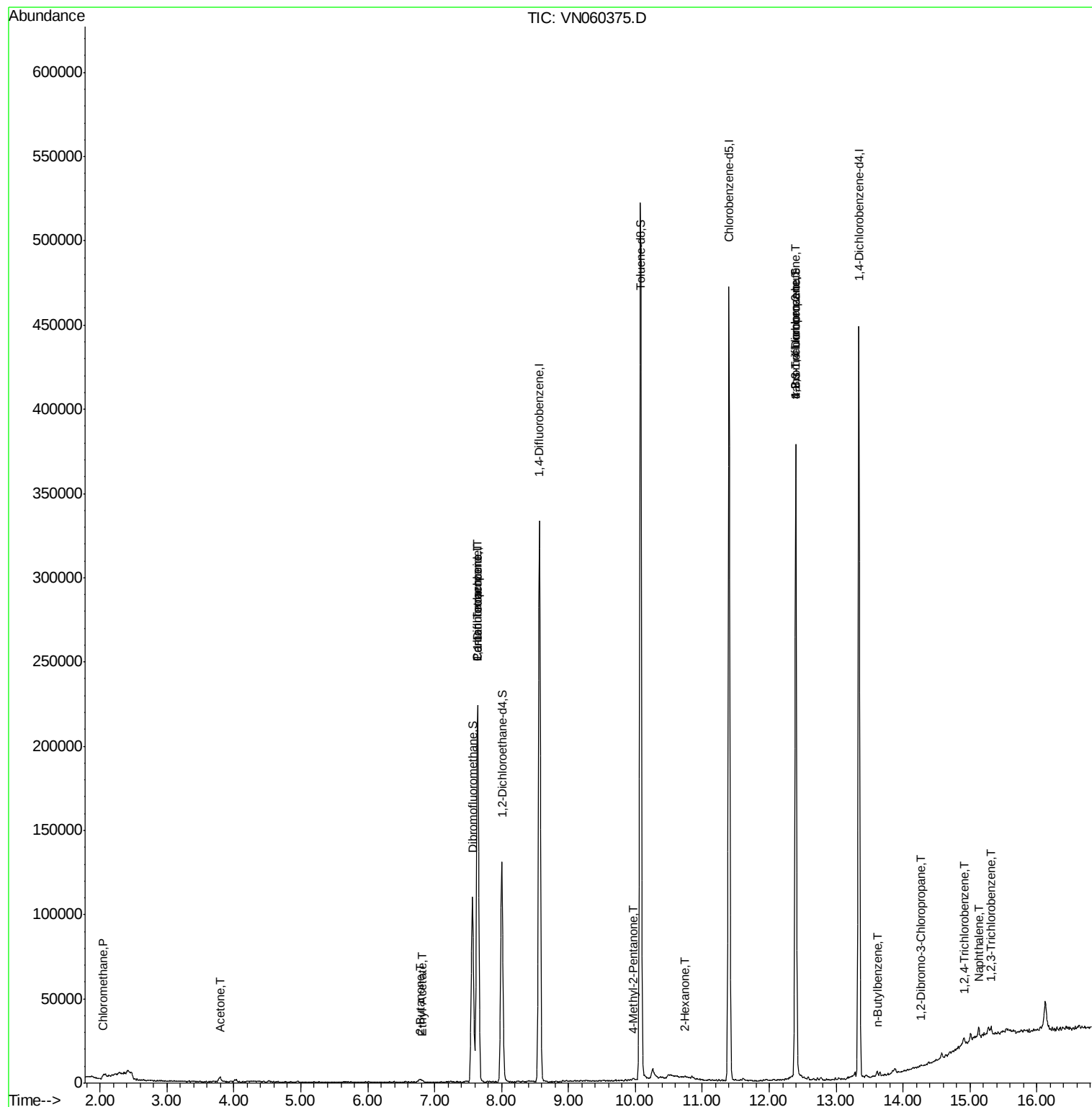
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	183878	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	298017	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	265813	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	116047	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	115558	48.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.96%	
35) Dibromofluoromethane	7.56	113	84259	60.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.82%	
50) Toluene-d8	10.08	98	360791	51.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.06%	
62) 4-Bromofluorobenzene	12.40	95	127587	48.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.14%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.04	50	1007	0.343	ug/l	89
12) 1,1-Dichloroethene	3.71	96	61	Below Cal	#	1
16) Acetone	3.79	43	5303	6.961	ug/l	91
17) Carbon Disulfide	4.02	76	462	Below Cal	#	75
25) 2-Butanone	6.80	43	382	0.310	ug/l #	49
31) Cyclohexane	7.64	56	3903	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	14274	5.026	ug/l #	49
37) Ethyl Acetate	6.81	43	774	0.288	ug/l #	68
38) Carbon Tetrachloride	7.64	117	17247	6.237	ug/l #	16
51) 4-Methyl-2-Pentanone	9.97	43	1040	0.390	ug/l #	83
59) 2-Hexanone	10.74	43	754	0.385	ug/l	86
76) 1,2,3-Trichloropropane	12.40	75	65210	25.612	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	65210	70.701	ug/l #	8
88) 1,4-Dichlorobenzene	13.28	146	1128	Below Cal		86
89) n-Butylbenzene	13.61	91	1988	0.279	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.26	75	272	0.514	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.91	180	1542	0.744	ug/l	96
95) Naphthalene	15.13	128	5319	0.500	ug/l	94
96) 1,2,3-Trichlorobenzene	15.31	180	1547	0.520	ug/l	96

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060375.D

Acq: 6 Mar 2020 13:12

Instrument :

MSVOA_N

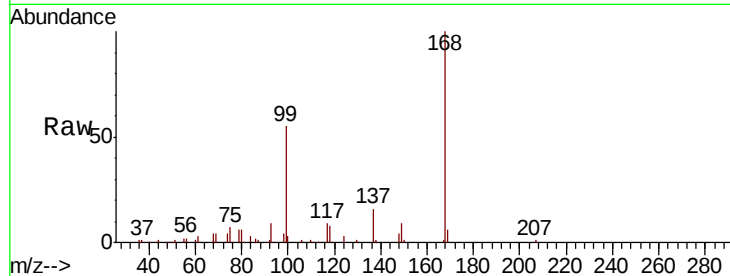
ClientSampleId :

Tot Ion:168 Resp: 183878

Ion Ratio Lower Upper

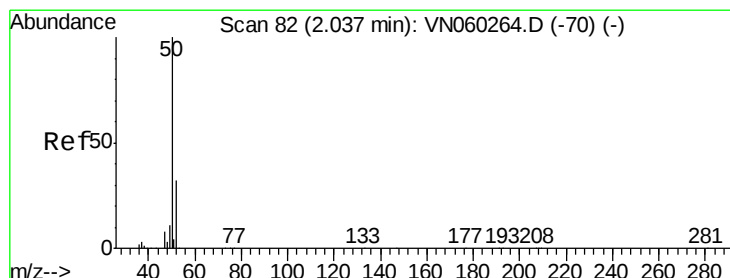
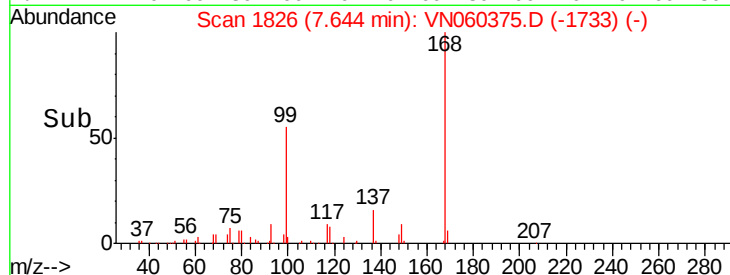
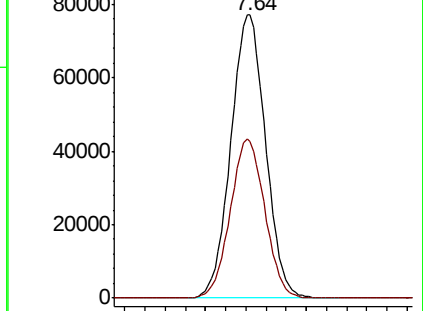
168 100

99 55.2 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.343 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN060375.D

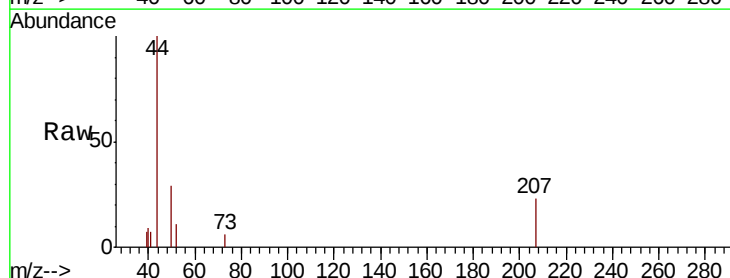
Acq: 6 Mar 2020 13:12

Tgt Ion: 50 Resp: 1007

Ion Ratio Lower Upper

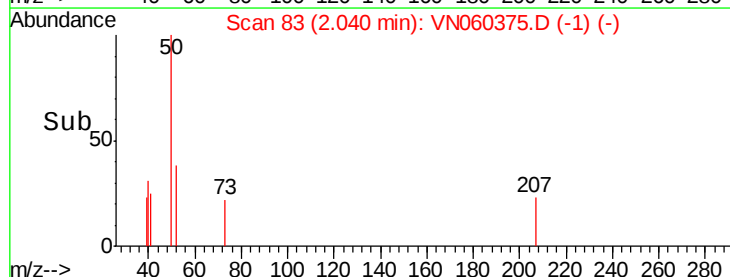
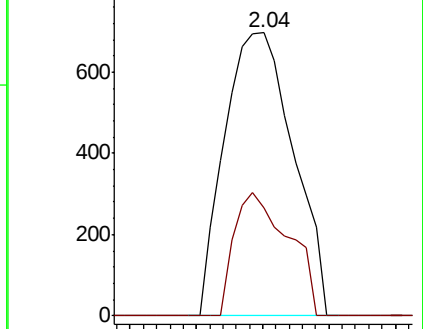
50 100

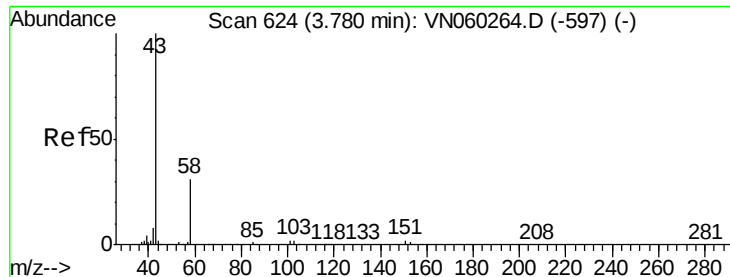
52 38.3 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#16

Acetone

Concen: 6.961 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060375.D

Acq: 6 Mar 2020 13:12

Instrument :

MSVOA_N

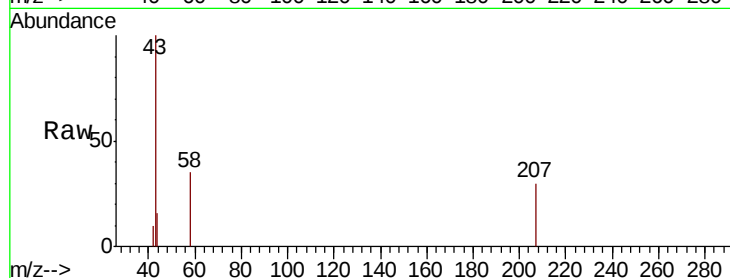
ClientSampleId :

Tot Ion: 43 Resp: 5303

Ion Ratio Lower Upper

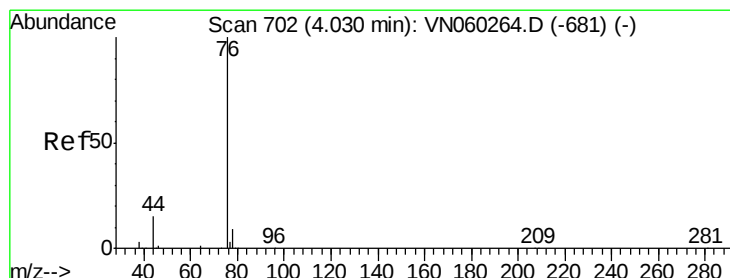
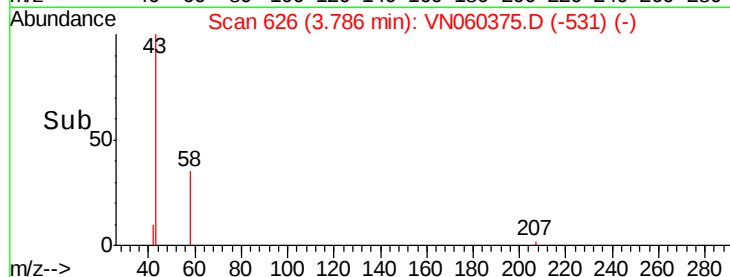
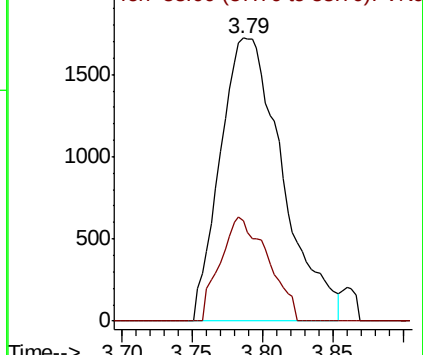
43 100

58 35.4 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060264.D (-597) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.02 min Scan# 699

Delta R.T. -0.01 min

Lab File: VN060375.D

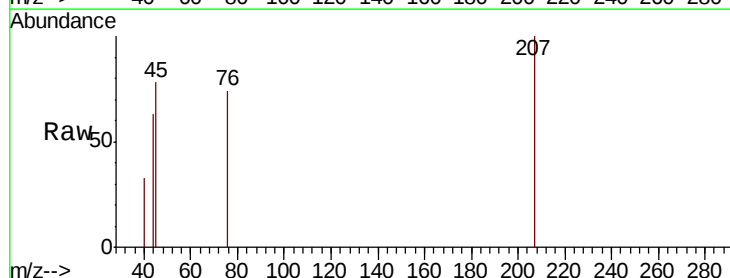
Acq: 6 Mar 2020 13:12

Tgt Ion: 76 Resp: 462

Ion Ratio Lower Upper

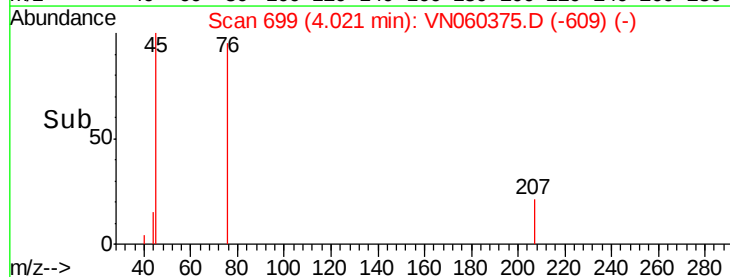
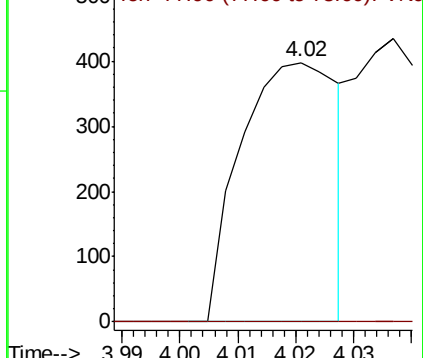
76 100

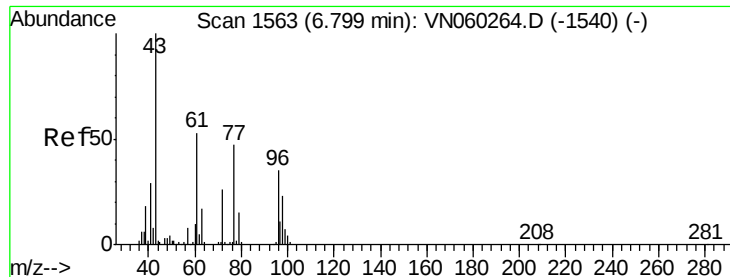
78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN060264.D (-681) (-)

Ion 77.90 (77.60 to 78.60): VN060264.D (-681) (-)





#25

2-Butanone

Concen: 0.310 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VN060375.D

Acq: 6 Mar 2020 13:12

Instrument :

MSVOA_N

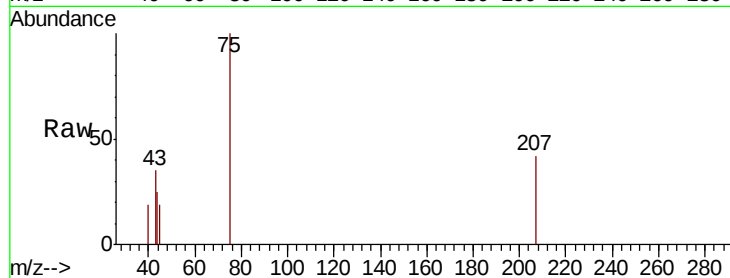
ClientSampleId :

Tot Ion: 43 Resp: 382

Ion Ratio Lower Upper

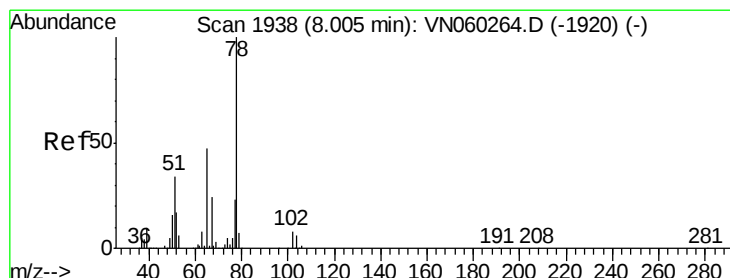
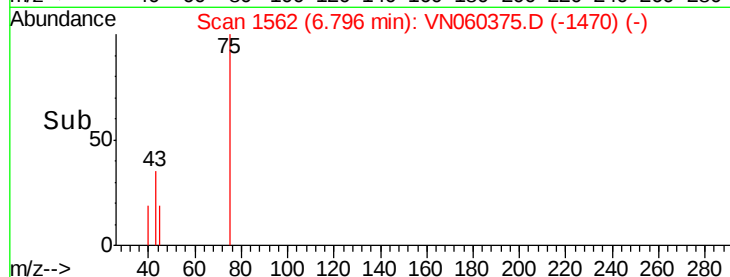
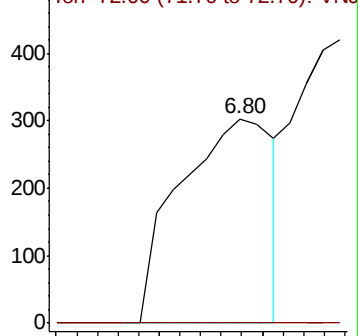
43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 48.982 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060375.D

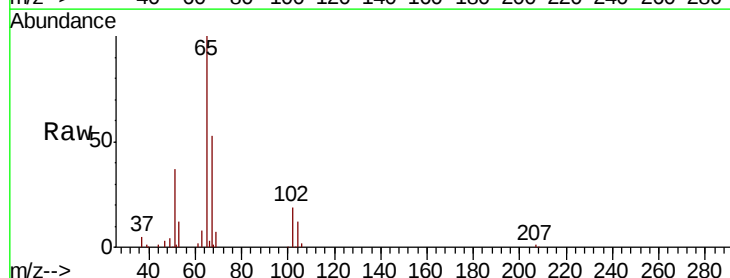
Acq: 6 Mar 2020 13:12

Tgt Ion: 65 Resp: 115558

Ion Ratio Lower Upper

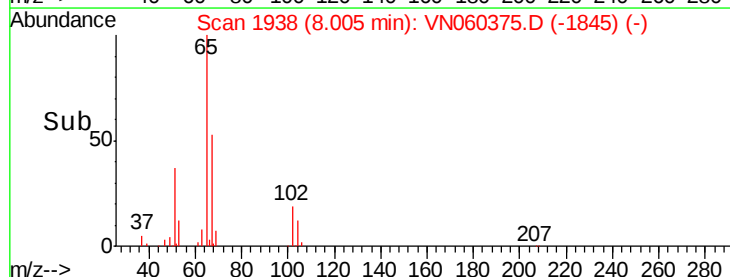
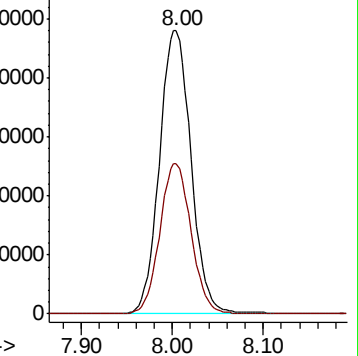
65 100

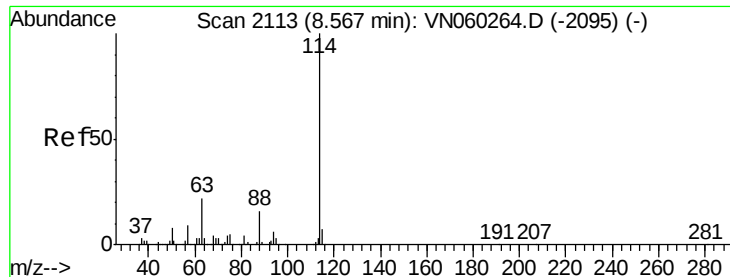
67 52.4 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

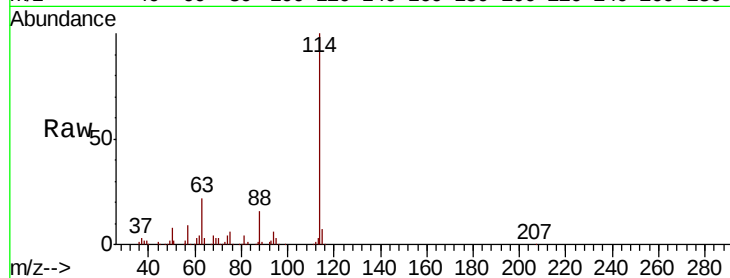




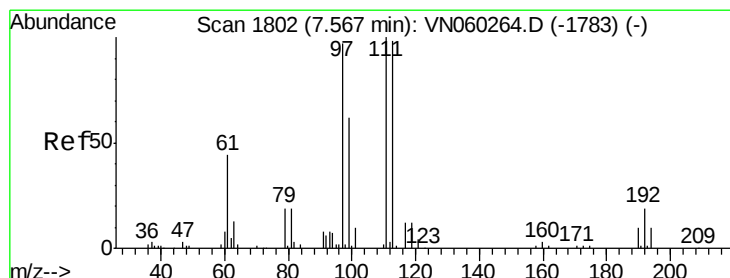
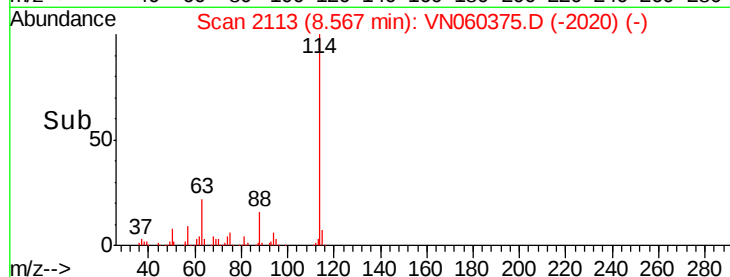
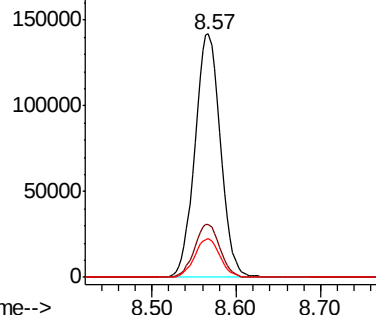
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN060375.D
Acq: 6 Mar 2020 13:12

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	43.2
88	15.8	0.0	31.6

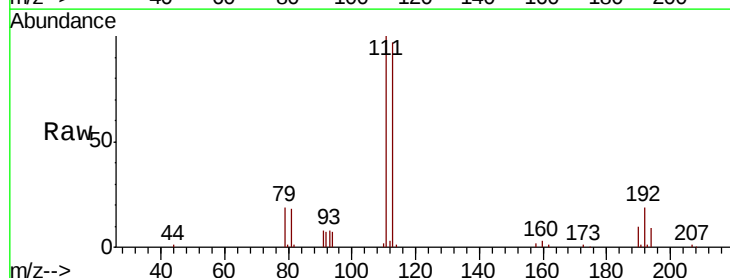


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

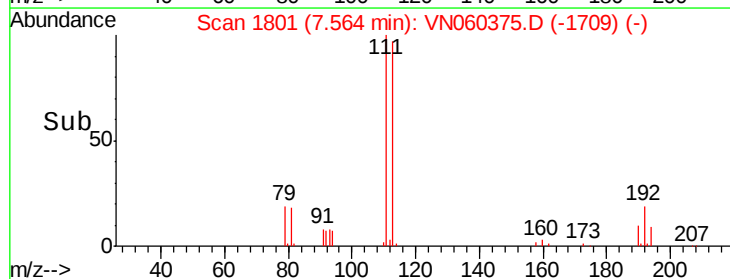
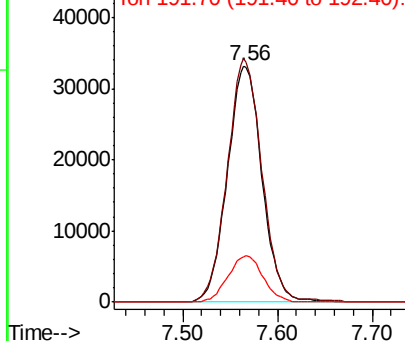


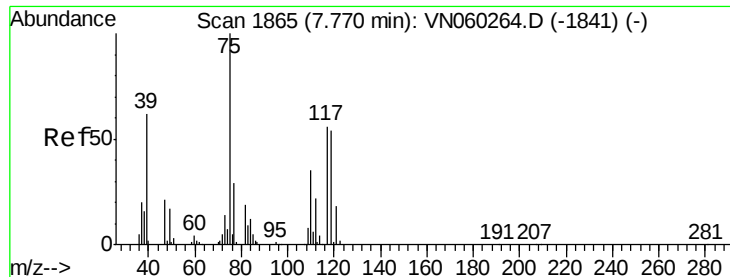
#35
Dibromofluoromethane
Concen: 60.912 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. -0.00 min
Lab File: VN060375.D
Acq: 6 Mar 2020 13:12

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.4	123.6
192	19.7	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: 5.026 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060375.D

Acq: 6 Mar 2020 13:12

Instrument :

MSVOA_N

ClientSampled :

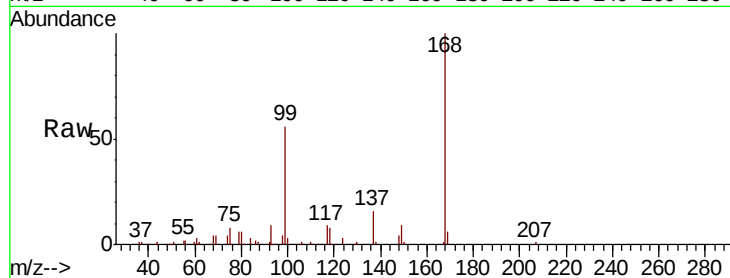
Tot Ion: 75 Resp: 14274

Ion Ratio Lower Upper

75 100

110 7.1 17.3 52.0#

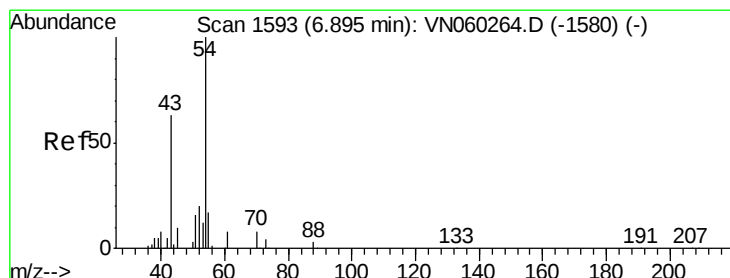
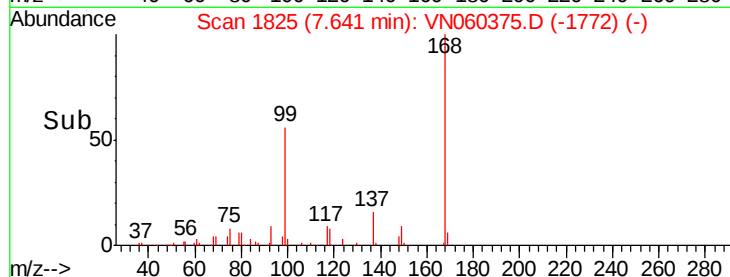
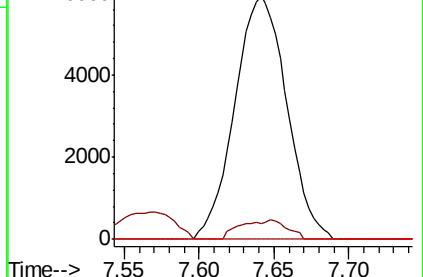
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-1841) (-)

Ion 109.90 (109.60 to 110.60): VN060264.D (-1841) (-)

Ion 76.90 (76.60 to 77.60): VN060264.D (-1841) (-)



#37

Ethyl Acetate

Concen: 0.288 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. -0.08 min

Lab File: VN060375.D

Acq: 6 Mar 2020 13:12

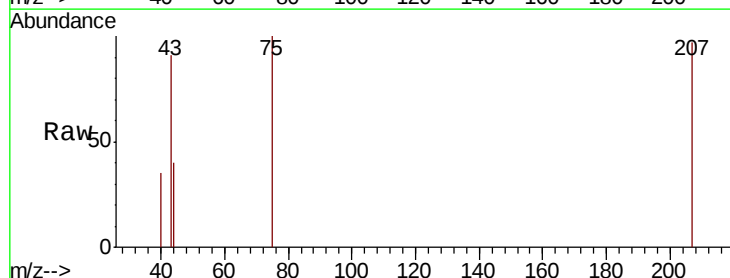
Tgt Ion: 43 Resp: 774

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

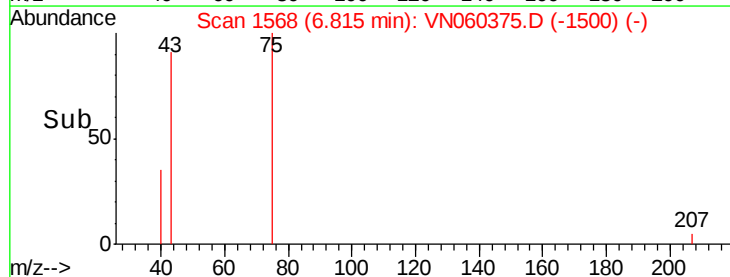
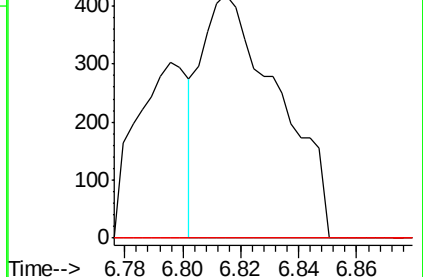
70 0.0 8.4 12.6#

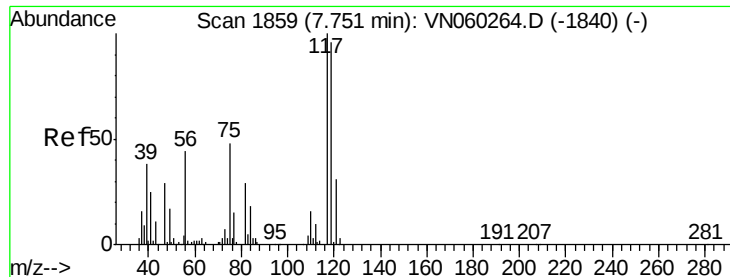


Abundance Ion 43.00 (42.70 to 43.70): VN060375.D (-1500) (-)

Ion 60.90 (60.60 to 61.60): VN060375.D (-1500) (-)

Ion 70.00 (69.70 to 70.70): VN060375.D (-1500) (-)

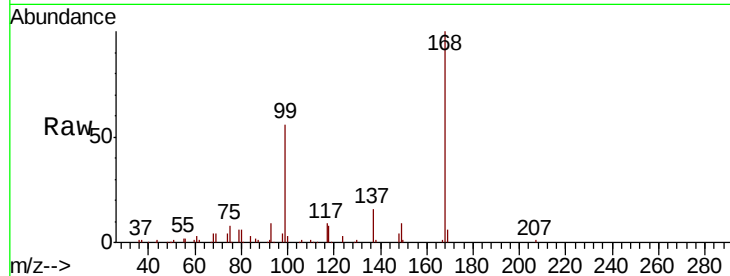




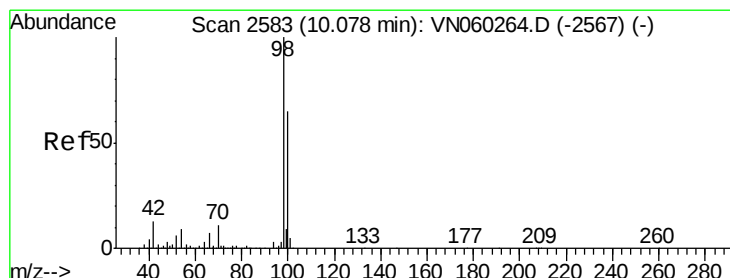
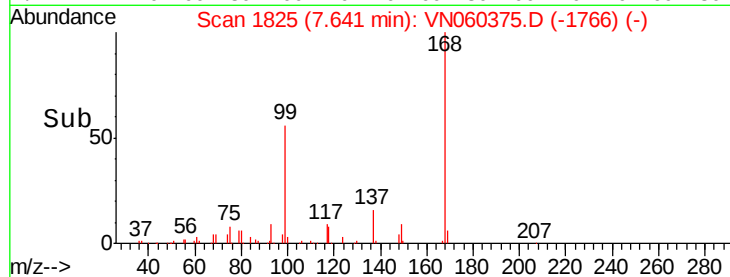
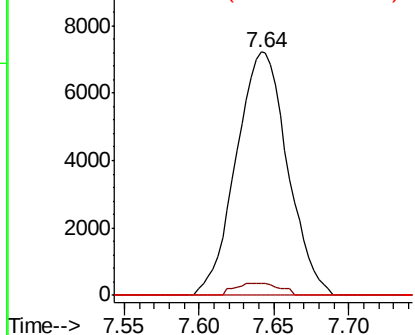
#38
Carbon Tetrachloride
Concen: 6.237 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060375.D
Acq: 6 Mar 2020 13:12

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 17247
Ion Ratio Lower Upper
117 100
119 4.9 76.7 115.1#
121 0.0 24.5 36.7#

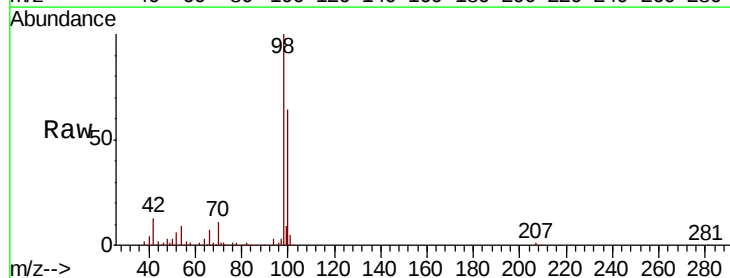


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

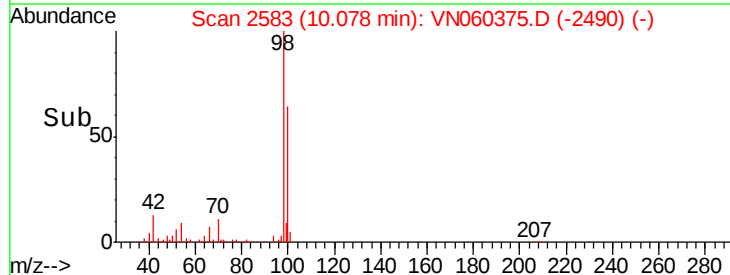
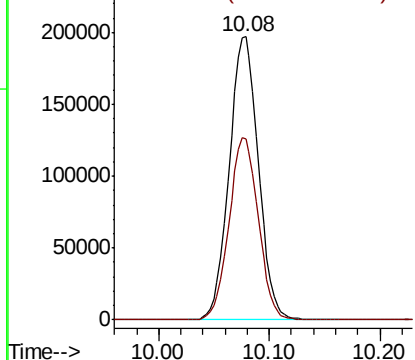


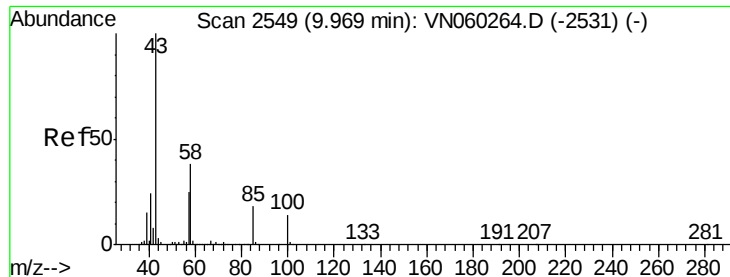
#50
Toluene-d8
Concen: 51.534 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060375.D
Acq: 6 Mar 2020 13:12

Tgt Ion: 98 Resp: 360791
Ion Ratio Lower Upper
98 100
100 64.6 52.2 78.2



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





#51

4-Methyl-2-Pentanone

Concen: 0.390 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060375.D

Acq: 6 Mar 2020 13:12

Instrument :

MSVOA_N

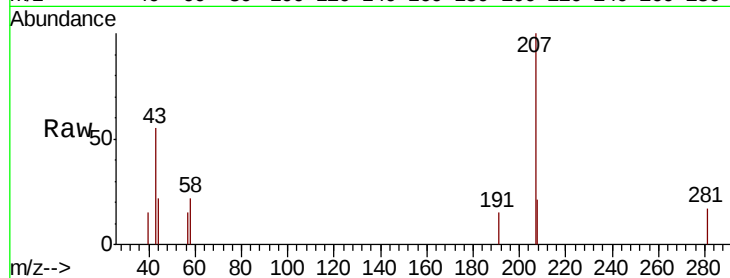
ClientSampled :

Tot Ion: 43 Resp: 1040

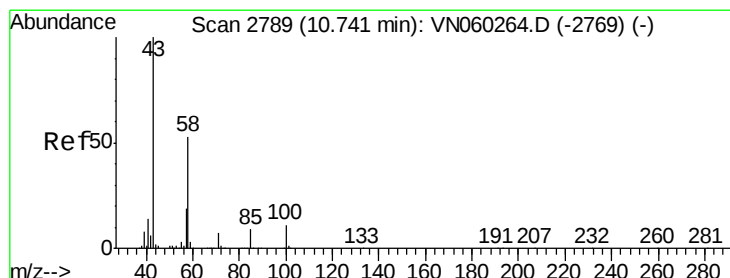
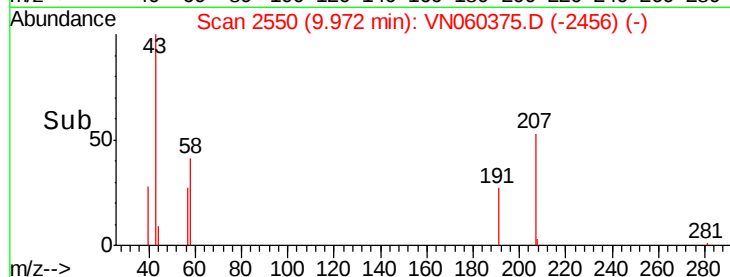
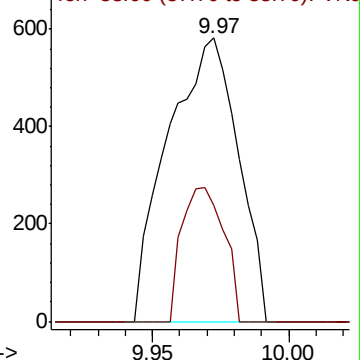
Ion Ratio Lower Upper

43 100

58 28.2 30.9 46.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2531) (-)



#59

2-Hexanone

Concen: 0.385 ug/l

RT: 10.74 min Scan# 2789

Delta R.T. 0.00 min

Lab File: VN060375.D

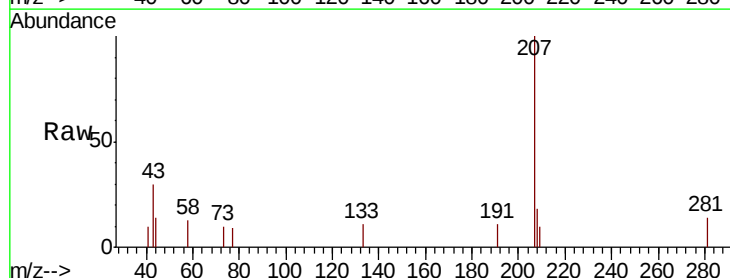
Acq: 6 Mar 2020 13:12

Tgt Ion: 43 Resp: 754

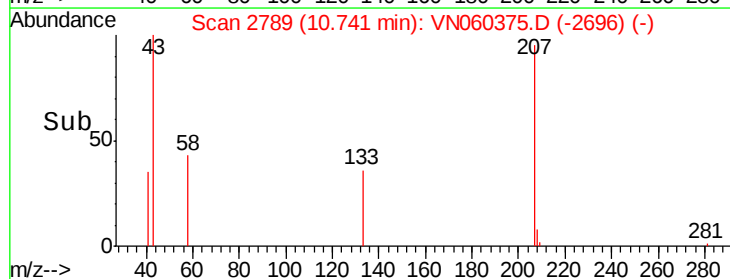
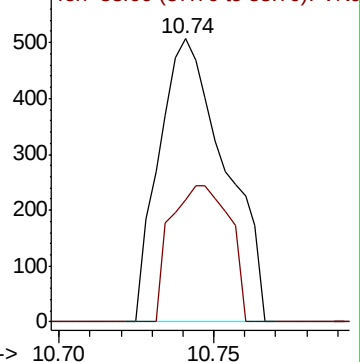
Ion Ratio Lower Upper

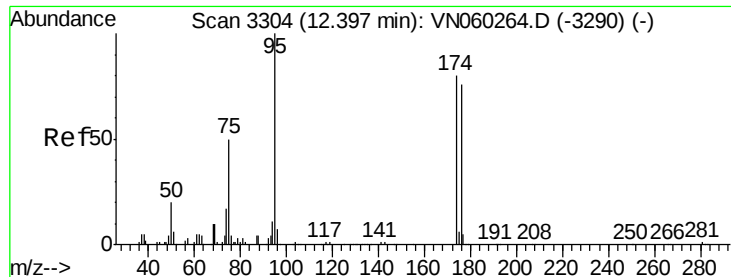
43 100

58 42.8 26.5 79.5



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2769) (-)





#62

4-Bromofluorobenzene

Concen: 48.075 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060375.D

Acq: 6 Mar 2020 13:12

Instrument :

MSVOA_N

ClientSampleId :

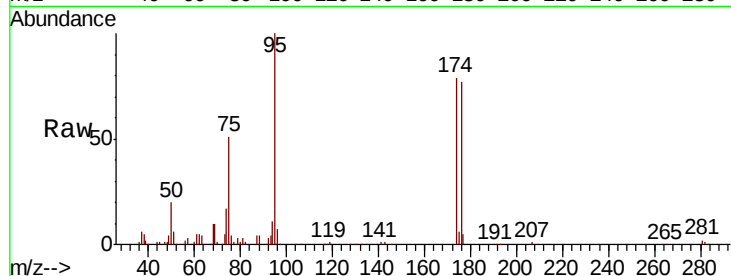
Tot Ion: 95 Resp: 127587

Ion Ratio Lower Upper

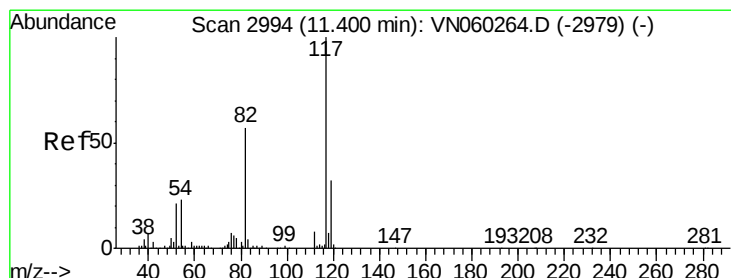
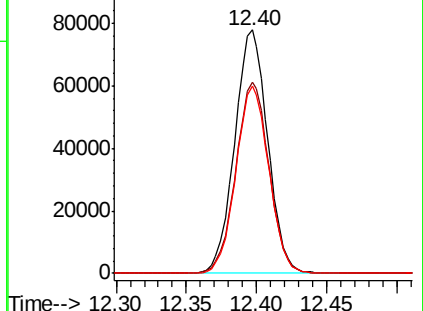
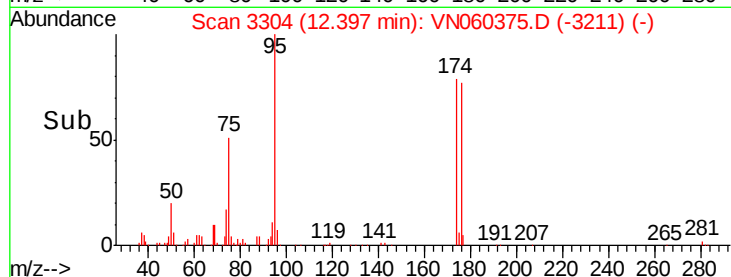
95 100

174 79.0 0.0 159.2

176 76.9 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060375.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060375.D

Acq: 6 Mar 2020 13:12

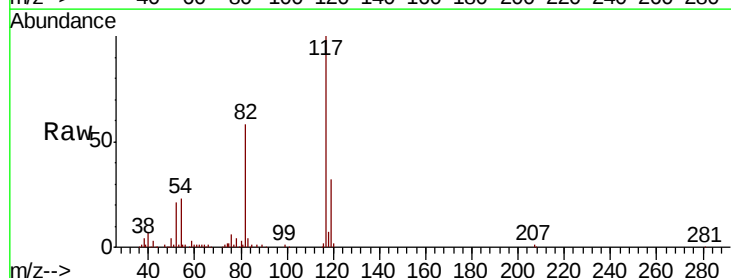
Tgt Ion: 117 Resp: 265813

Ion Ratio Lower Upper

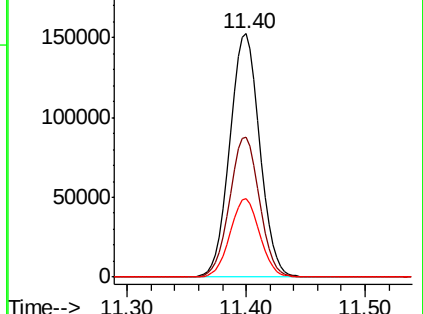
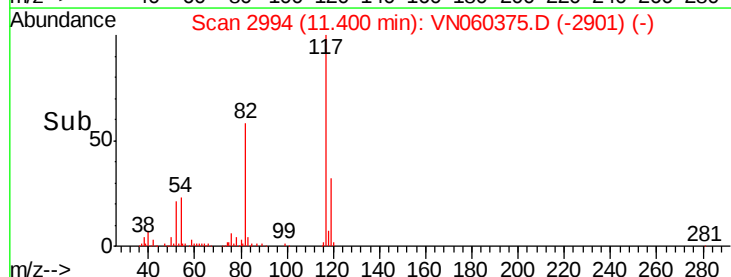
117 100

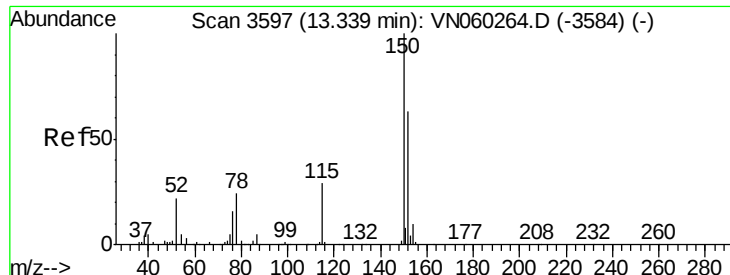
82 57.5 45.8 68.6

119 32.1 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): VN060375.D (-2901) (-)



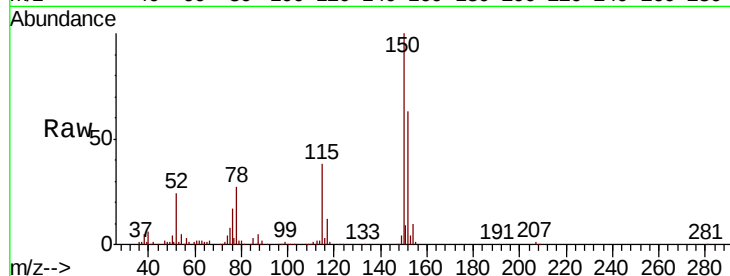


#72

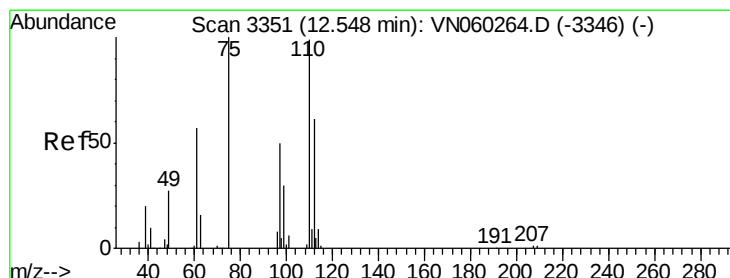
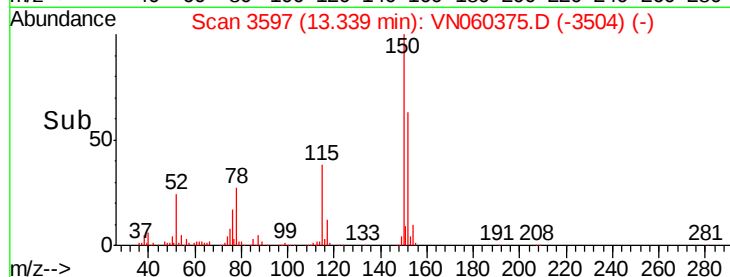
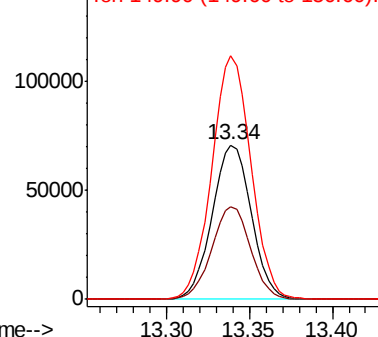
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060375.D
Acq: 6 Mar 2020 13:12

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.0	30.0	90.0
150	158.2	0.0	349.6



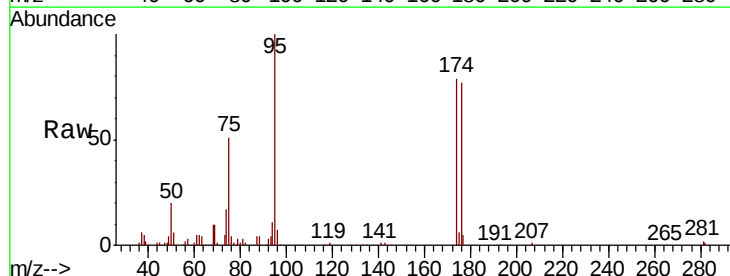
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



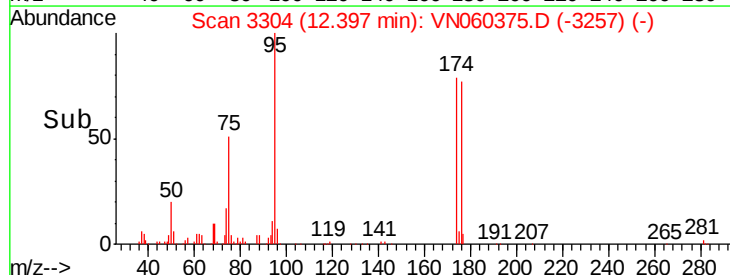
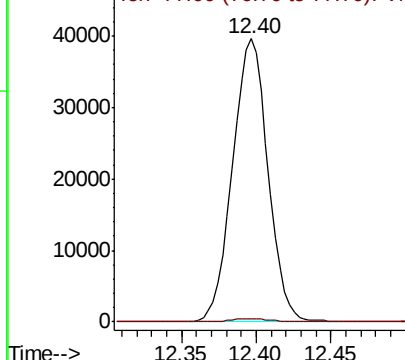
#76

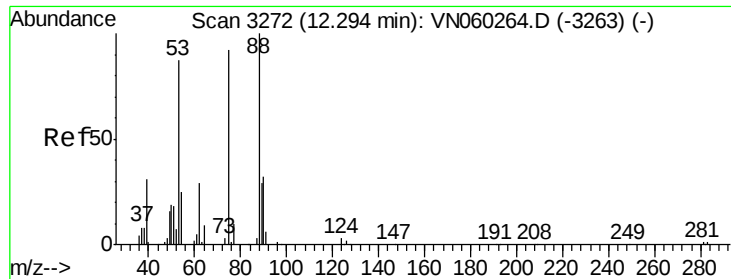
1,2,3-Trichloropropane
Concen: 25.612 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060375.D
Acq: 6 Mar 2020 13:12

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 70.701 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060375.D

Acq: 6 Mar 2020 13:12

Instrument :

MSVOA_N

ClientSampled :

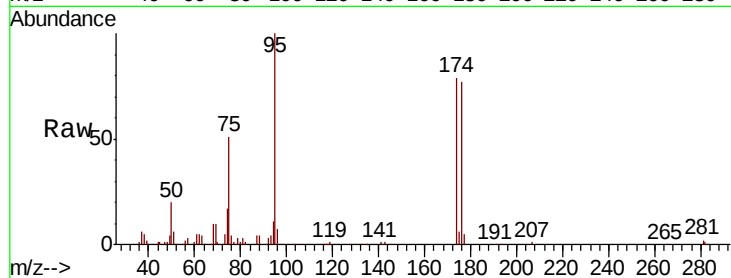
Tot Ion: 75 Resp: 65210

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

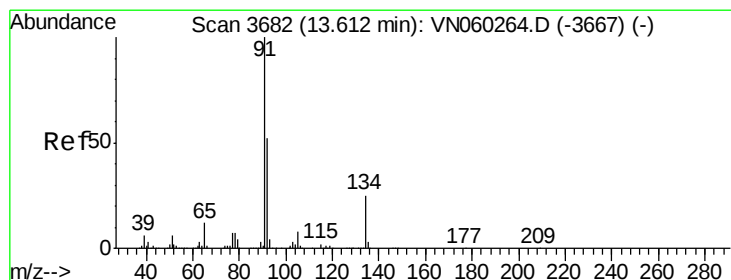
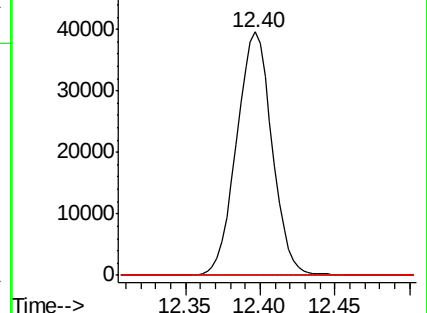
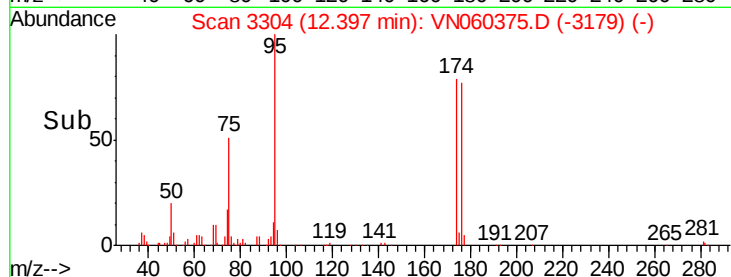
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060375.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060375.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060375.D (-3179) (-)



#89

n-Butylbenzene

Concen: 0.279 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN060375.D

Acq: 6 Mar 2020 13:12

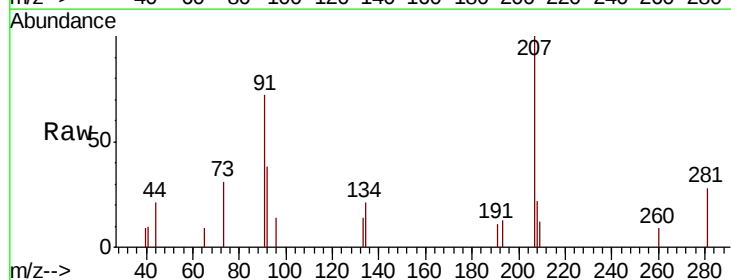
Tgt Ion: 91 Resp: 1988

Ion Ratio Lower Upper

91 100

92 50.8 26.0 78.0

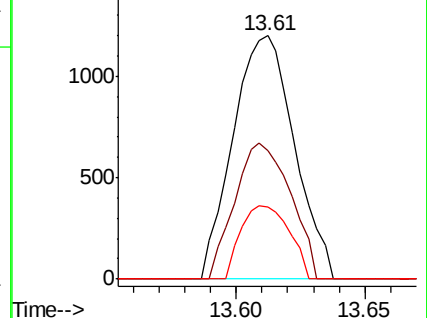
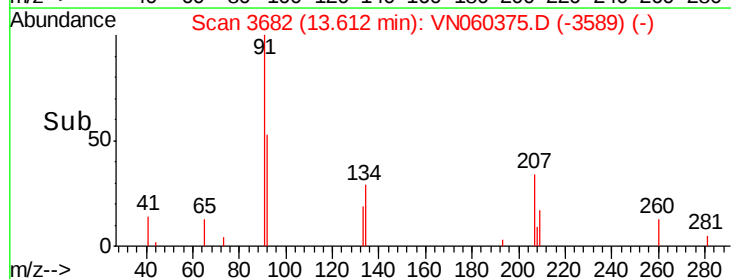
134 23.8 12.7 38.1

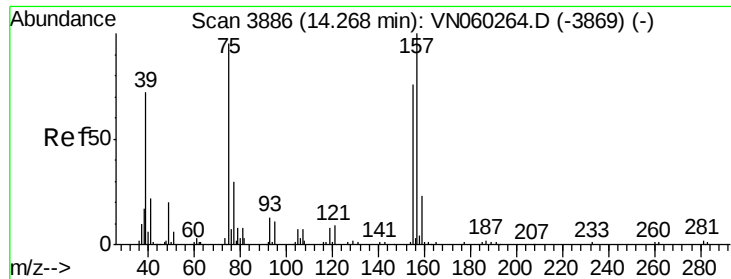


Abundance Ion 91.00 (90.70 to 91.70): VN060375.D (-3589) (-)

Ion 92.00 (91.70 to 92.70): VN060375.D (-3589) (-)

Ion 134.00 (133.70 to 134.70): VN060375.D (-3589) (-)

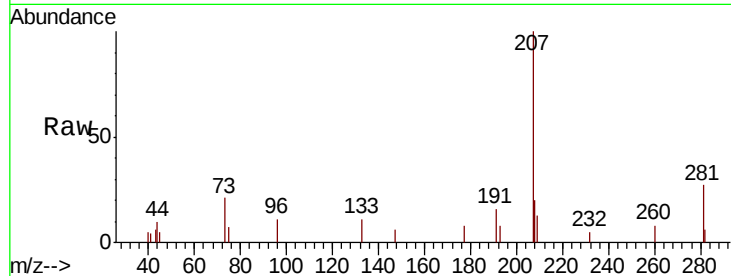




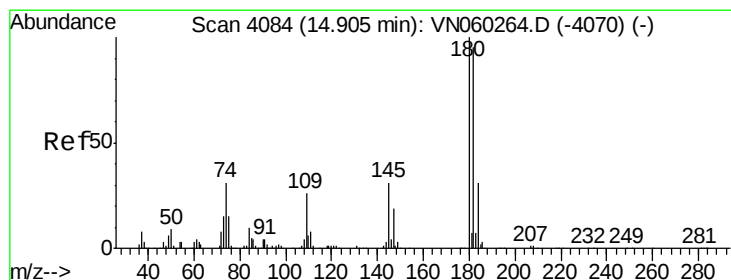
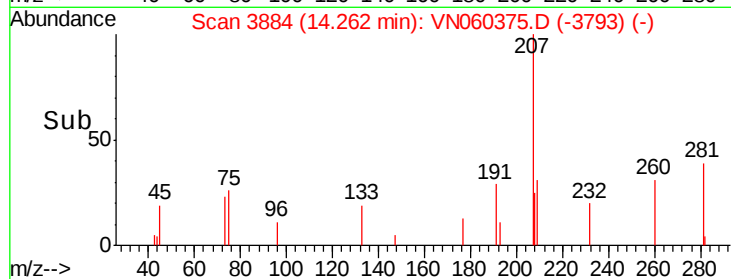
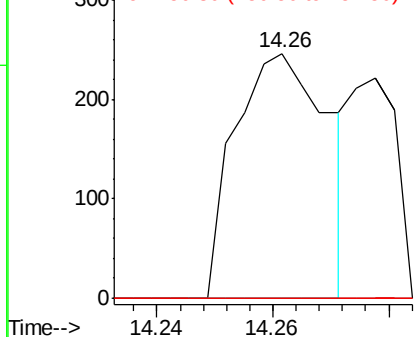
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.514 ug/l
 RT: 14.26 min Scan# 3884
 Delta R.T. -0.01 min
 Lab File: VN060375.D
 Acq: 6 Mar 2020 13:12

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 272
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.4 121.2#
 157 0.0 52.5 157.5#

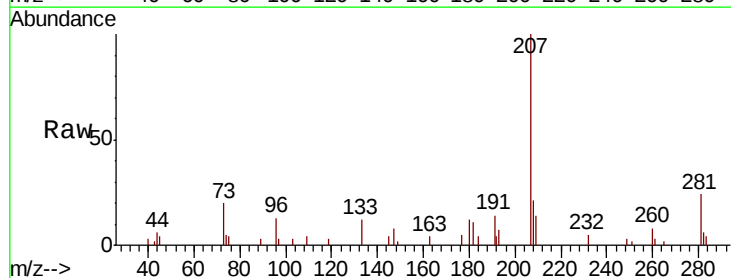


Abundance Ion 74.90 (74.60 to 75.60): VN060375.D (-3793) (-)
 Ion 154.80 (154.50 to 155.50): VN060375.D (-3793) (-)
 Ion 156.80 (156.50 to 157.50): VN060375.D (-3793) (-)

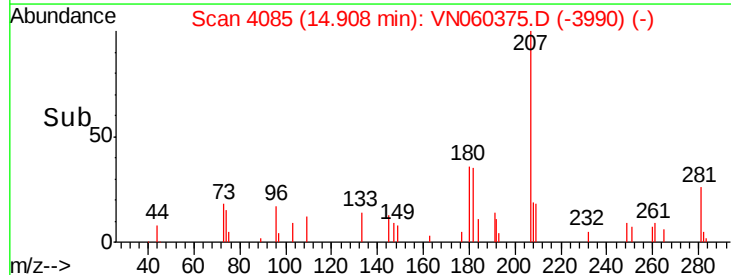
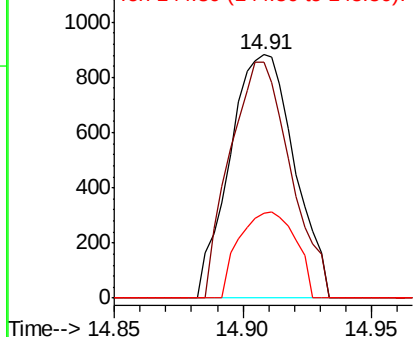


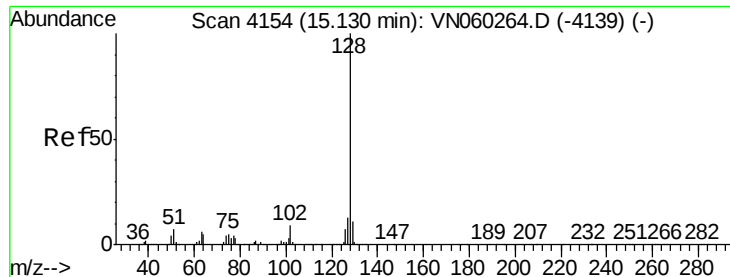
#93
 1,2,4-Trichlorobenzene
 Concen: 0.744 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN060375.D
 Acq: 6 Mar 2020 13:12

Tgt Ion: 180 Resp: 1542
 Ion Ratio Lower Upper
 180 100
 182 90.5 47.8 143.3
 145 30.9 15.4 46.1



Abundance Ion 179.80 (179.50 to 180.50): VN060375.D (-3990) (-)
 Ion 181.80 (181.50 to 182.50): VN060375.D (-3990) (-)
 Ion 144.80 (144.50 to 145.50): VN060375.D (-3990) (-)





#95

Naphthalene

Concen: 0.500 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060375.D

Acq: 6 Mar 2020 13:12

Instrument :

MSVOA_N

ClientSampled :

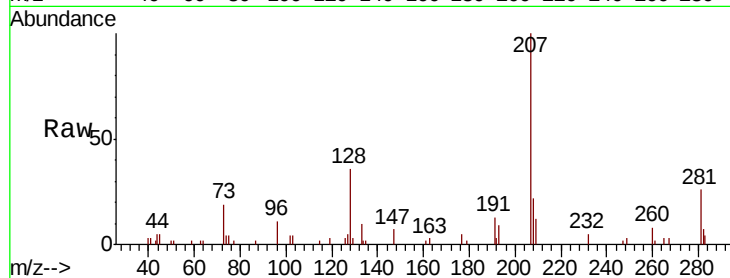
Tot Ion:128 Resp: 5319

Ion Ratio Lower Upper

128 100

127 10.5 10.4 15.6

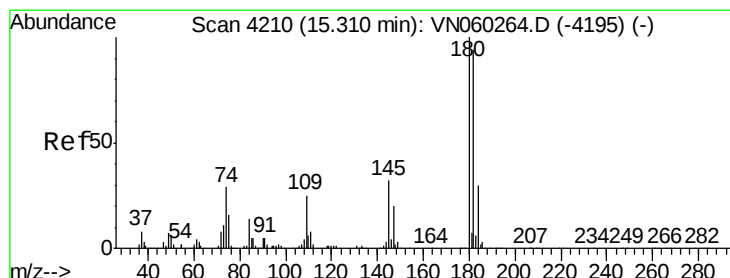
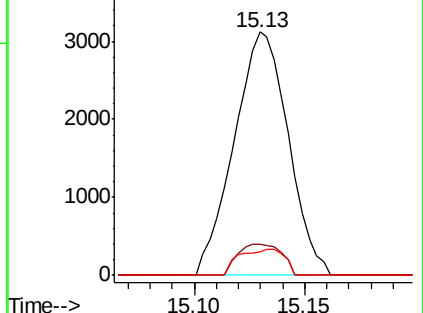
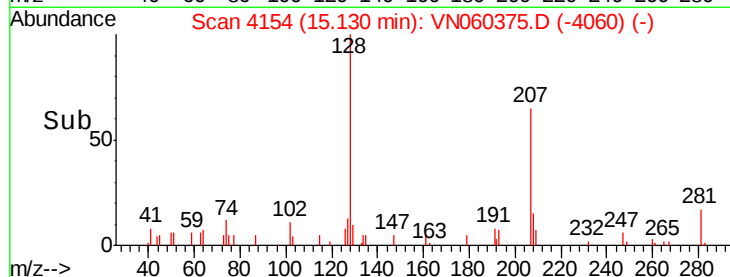
129 9.0 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.520 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN060375.D

Acq: 6 Mar 2020 13:12

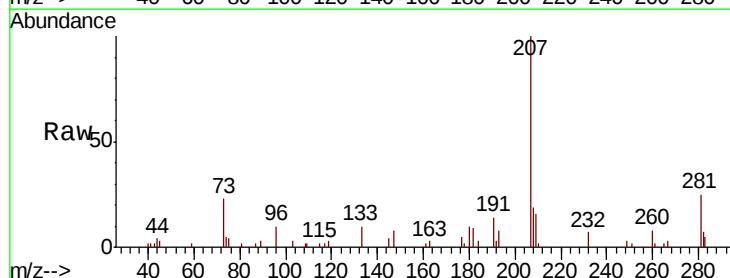
Tgt Ion:180 Resp: 1547

Ion Ratio Lower Upper

180 100

182 96.6 47.3 142.0

145 37.2 16.2 48.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

