

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100719\
 Data File : VN058585.D
 Acq On : 7 Oct 2019 22:18
 Operator : JC/SP
 Sample : K5215-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 08 14:08:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	480239	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	743282	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	651288	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	271281	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	324139	46.19	ug/l	0.00
Spiked Amount			Recovery	=	92.38%	
35) Dibromofluoromethane	7.57	113	230545	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
50) Toluene-d8	10.08	98	936815	52.49	ug/l	0.00
Spiked Amount			Recovery	=	104.98%	
62) 4-Bromofluorobenzene	12.41	95	314231	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	

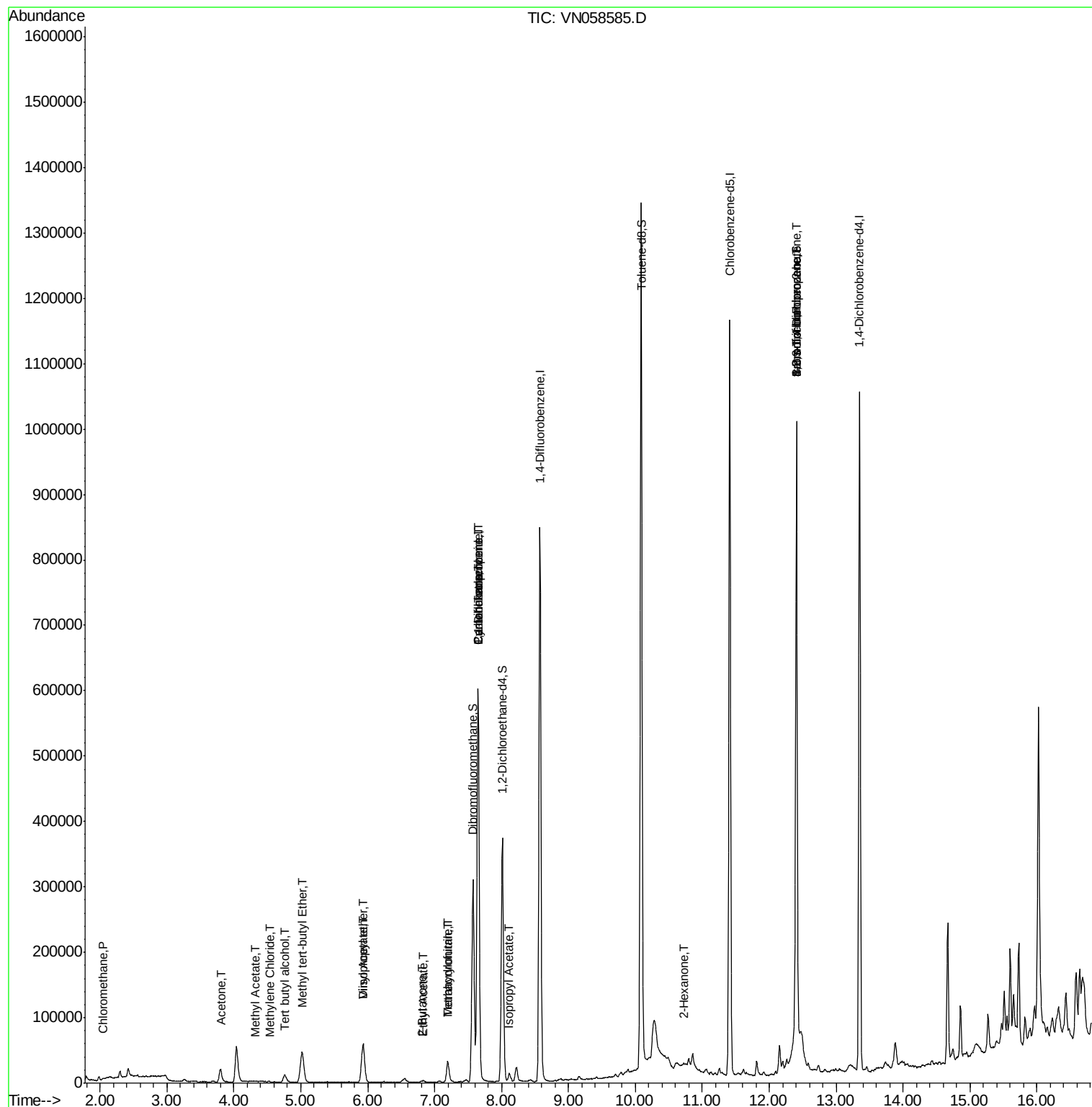
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1749	0.302	ug/l	100
11) Tert butyl alcohol	4.76	59	20355	26.108	ug/l	97
16) Acetone	3.80	43	33098	13.835	ug/l	98
18) Methyl Acetate	4.32	43	2236	0.372	ug/l #	53
19) Methyl tert-butyl Ether	5.02	73	78016	4.881	ug/l	97
20) Methylene Chloride	4.54	84	1156	0.209	ug/l	93
22) Diisopropyl ether	5.93	45	80619	4.544	ug/l	93
23) Vinyl Acetate	5.93	43	41934	3.135	ug/l #	74
25) 2-Butanone	6.81	43	829	0.252	ug/l #	50
29) Tetrahydrofuran	7.20	42	26798	12.855	ug/l	99
31) Cyclohexane	7.65	56	10792	1.111	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	38698	5.445	ug/l #	52
37) Ethyl Acetate	6.83	43	2306	0.383	ug/l #	70
38) Carbon Tetrachloride	7.65	117	48271	7.524	ug/l #	16
41) Methacrylonitrile	7.20	41	16374	5.907	ug/l #	37
43) Isopropyl Acetate	8.11	43	3628	0.320	ug/l #	63
59) 2-Hexanone	10.72	43	5323	1.256	ug/l #	26
60) Dibromochloromethane	10.91	129	62	Below Cal	#	11
71) Bromoform	12.41	173	1741	1.264	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	166573	33.617	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	166573	102.100	ug/l #	8
96) 1,2,3-Trichlorobenzene	15.27	180	101	Below Cal	#	1

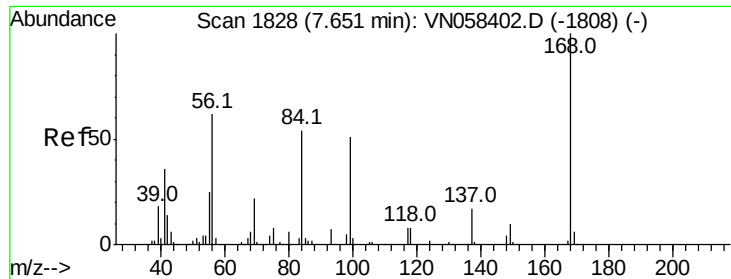
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058585.D

Acq: 7 Oct 2019 22:18

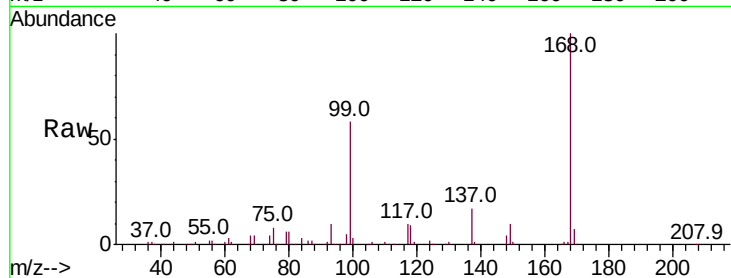
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 480239

Ion Ratio Lower Upper

168 100

99 57.7 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

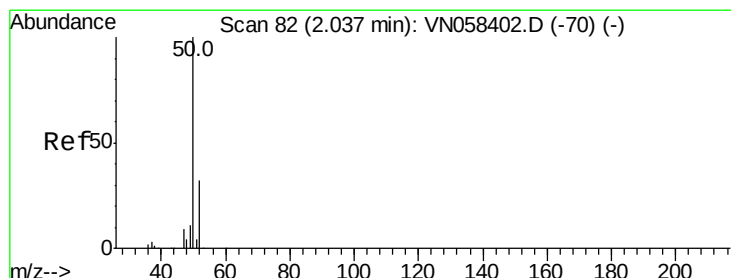
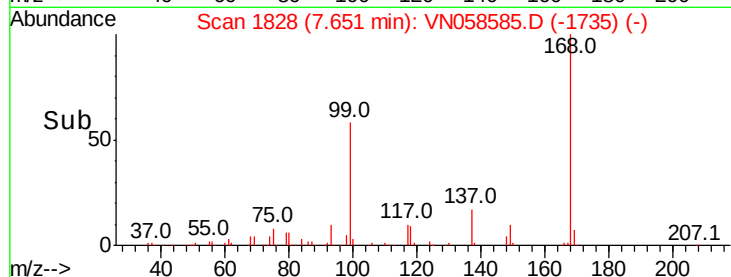
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.302 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.01 min

Lab File: VN058585.D

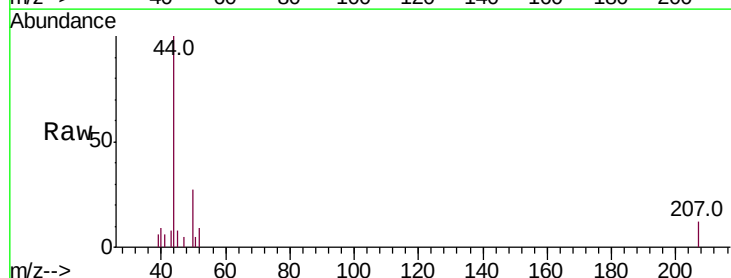
Acq: 7 Oct 2019 22:18

Tgt Ion: 50 Resp: 1749

Ion Ratio Lower Upper

50 100

52 32.3 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1200

1000

800

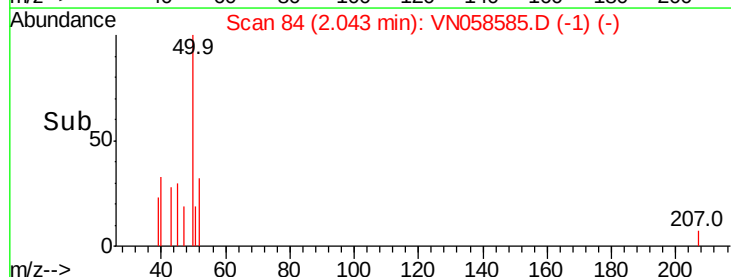
600

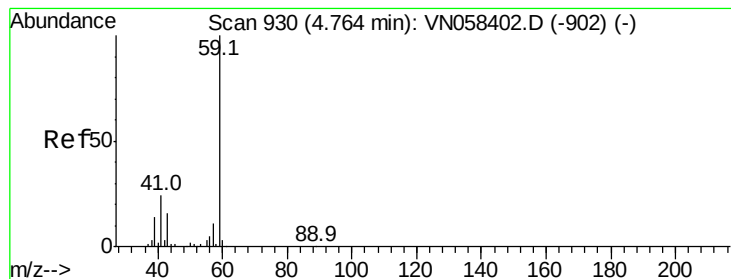
400

200

0

Time-->





#11

Tert butyl alcohol

Concen: 26.108 ug/l

RT: 4.76 min Scan# 930

Delta R.T. 0.00 min

Lab File: VN058585.D

Acq: 7 Oct 2019 22:18

Instrument :

MSVOA_N

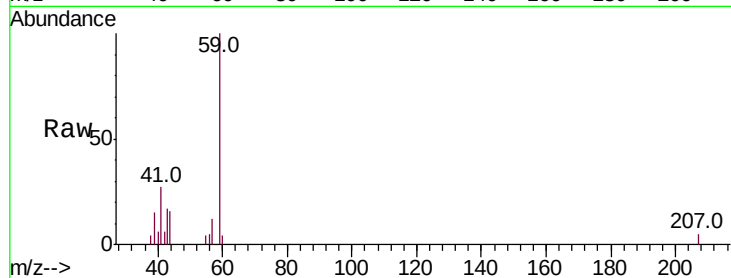
ClientSampled :

Tot Ion: 59 Resp: 20355

Ion Ratio Lower Upper

59 100

57 9.9 9.0 13.4



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.76

6000

5000

4000

3000

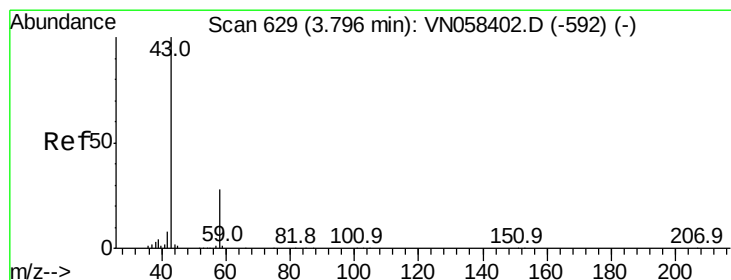
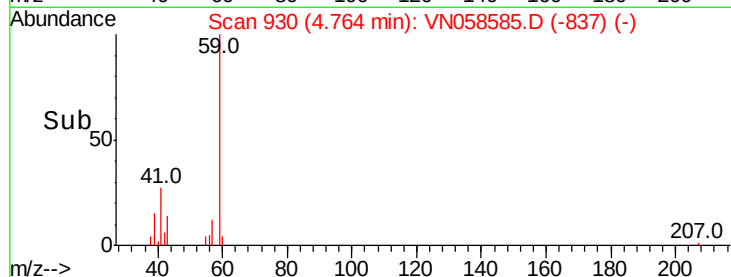
2000

1000

0

4.70 4.80 4.90

Time-->



#16

Acetone

Concen: 13.835 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058585.D

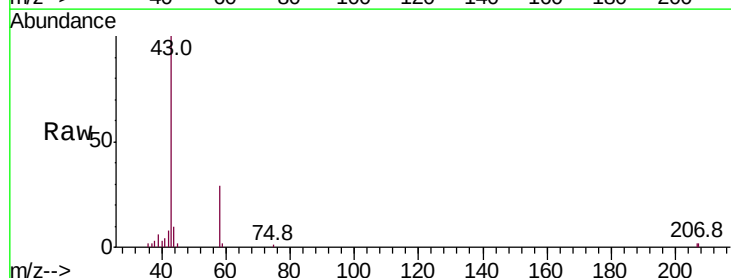
Acq: 7 Oct 2019 22:18

Tgt Ion: 43 Resp: 33098

Ion Ratio Lower Upper

43 100

58 29.1 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.80

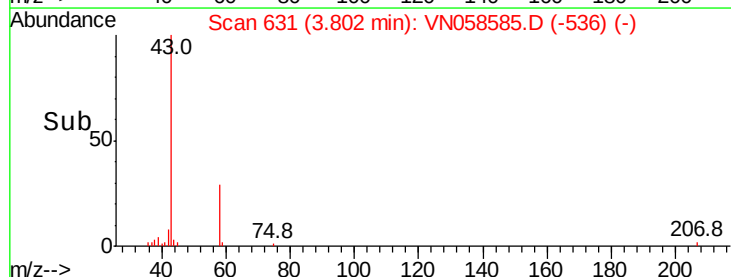
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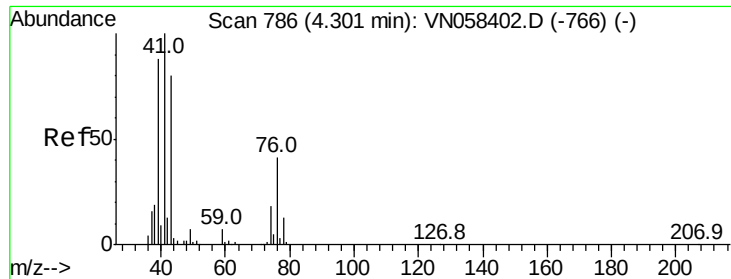
5000

0

3.70 3.75 3.80 3.85 3.90

Time-->

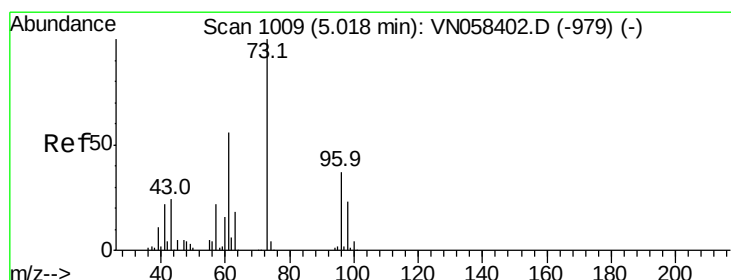
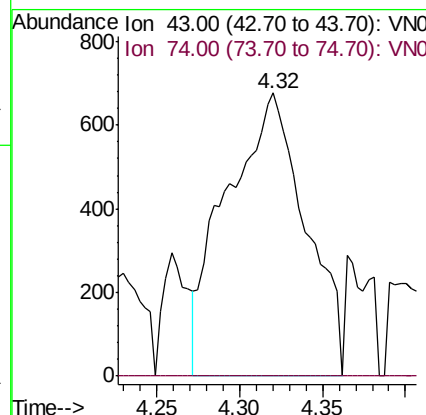
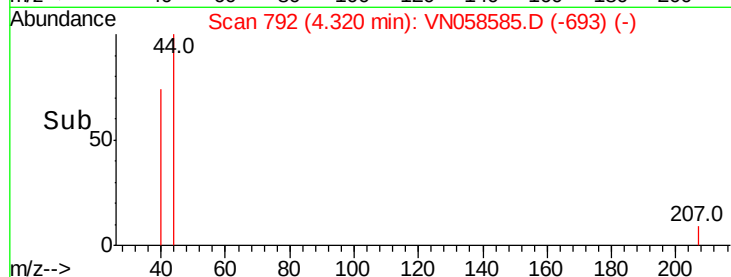
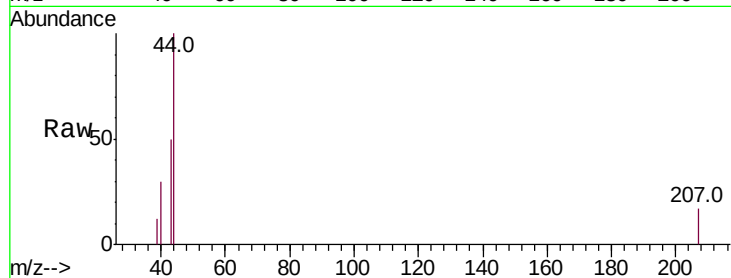




#18
Methyl Acetate
Concen: 0.372 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.02 min
Lab File: VN058585.D
Acq: 7 Oct 2019 22:18

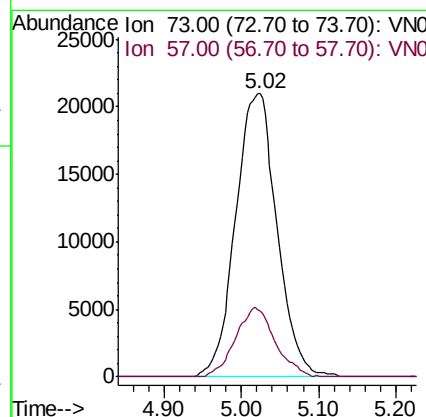
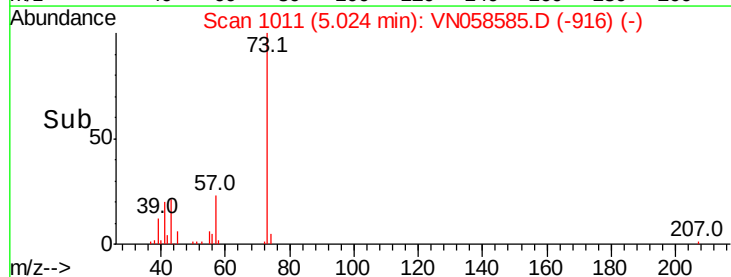
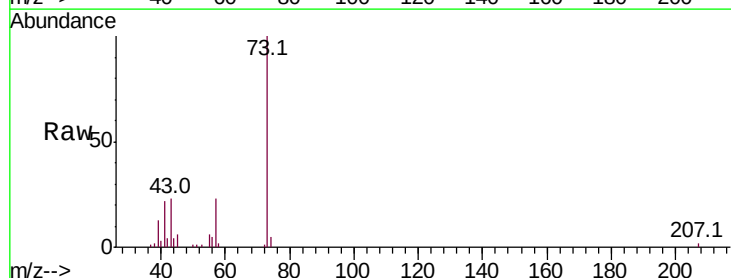
Instrument :
MSVOA_N
ClientSampled :

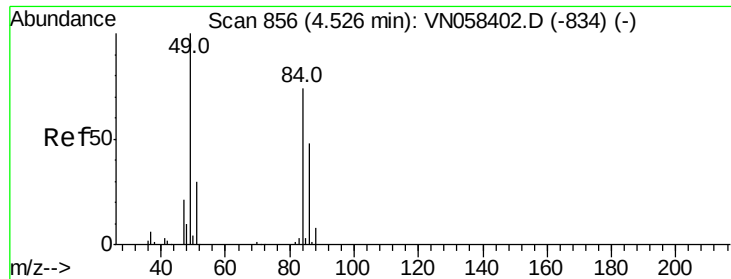
Tot Ion: 43 Resp: 2236
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#19
Methyl tert-butyl Ether
Concen: 4.881 ug/l
RT: 5.02 min Scan# 1011
Delta R.T. 0.01 min
Lab File: VN058585.D
Acq: 7 Oct 2019 22:18

Tgt Ion: 73 Resp: 78016
Ion Ratio Lower Upper
73 100
57 23.4 17.6 26.4

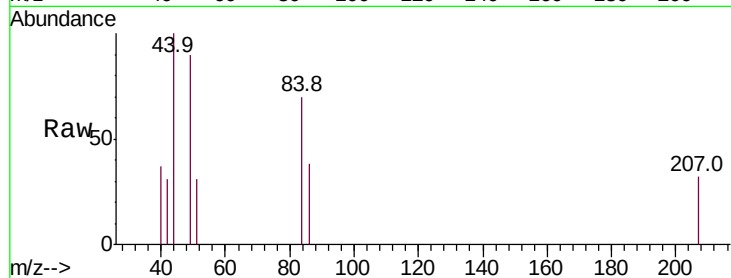




#20
Methylene Chloride
Concen: 0.209 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN058585.D
Acq: 7 Oct 2019 22:18

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	1156
Ion	Ratio	Lower	Upper
84	100		
49	128.8	107.9	161.9
51	44.1	32.8	49.2
86	53.9	51.5	77.3

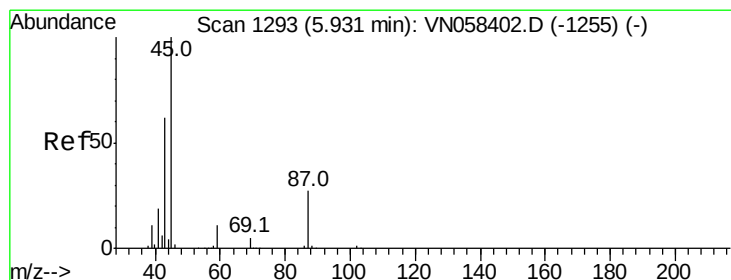
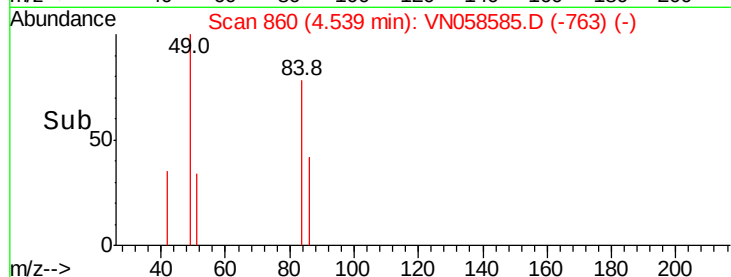
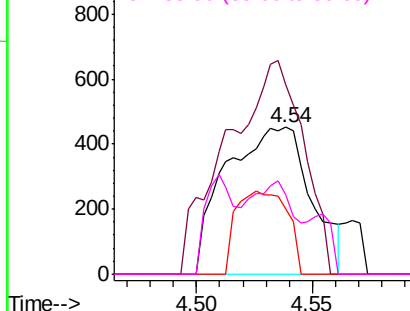


Abundance Ion 83.90 (83.60 to 84.60): VN058402.D (-834) (-)

Ion 48.90 (48.60 to 49.60): VN058402.D (-834) (-)

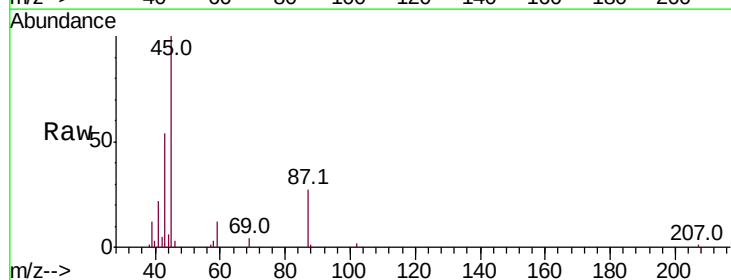
Ion 50.90 (50.60 to 51.60): VN058402.D (-834) (-)

Ion 85.90 (85.60 to 86.60): VN058402.D (-834) (-)



#22
Diisopropyl ether
Concen: 4.544 ug/l
RT: 5.93 min Scan# 1293
Delta R.T. 0.00 min
Lab File: VN058585.D
Acq: 7 Oct 2019 22:18

Tgt Ion:	45	Resp:	80619
Ion	Ratio	Lower	Upper
45	100		
43	53.8	49.7	74.5
87	26.8	21.5	32.3
59	11.7	8.9	13.3

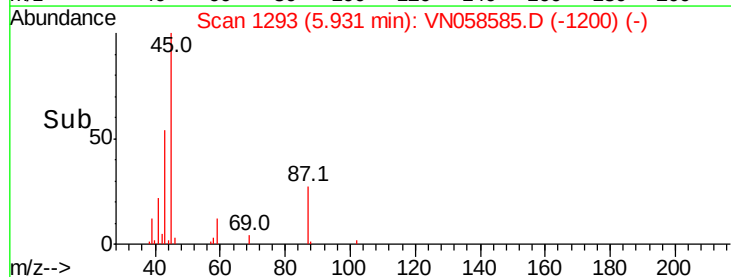
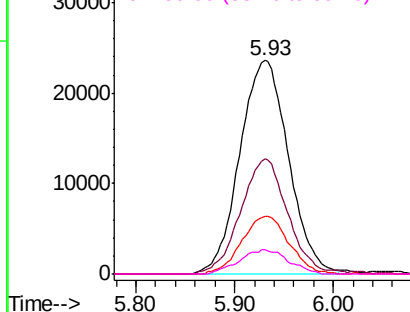


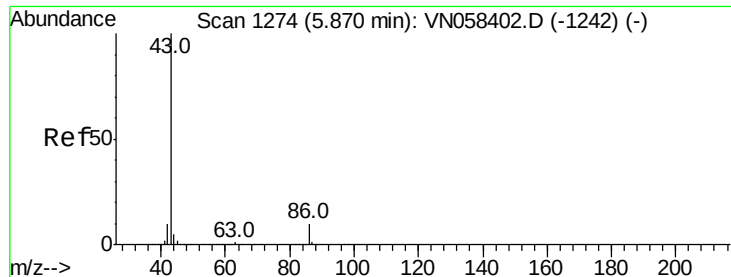
Abundance Ion 45.00 (44.70 to 45.70): VN058402.D (-1255) (-)

Ion 43.00 (42.70 to 43.70): VN058402.D (-1255) (-)

Ion 87.00 (86.70 to 87.70): VN058402.D (-1255) (-)

Ion 59.00 (58.70 to 59.70): VN058402.D (-1255) (-)

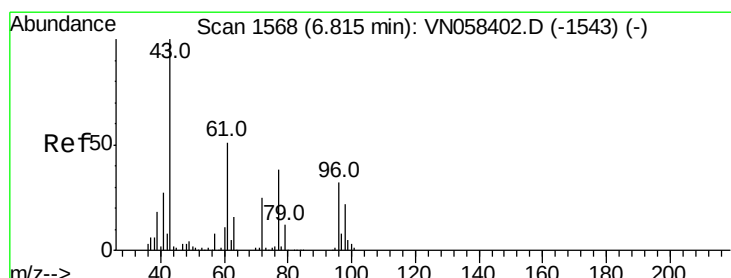
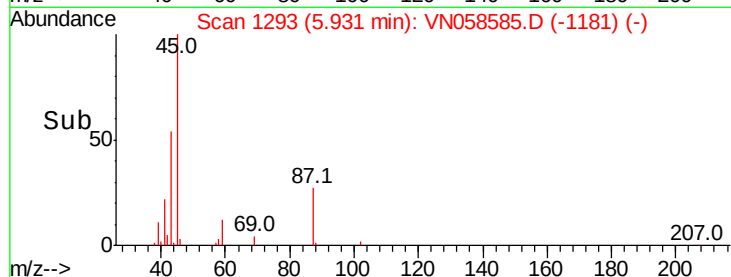
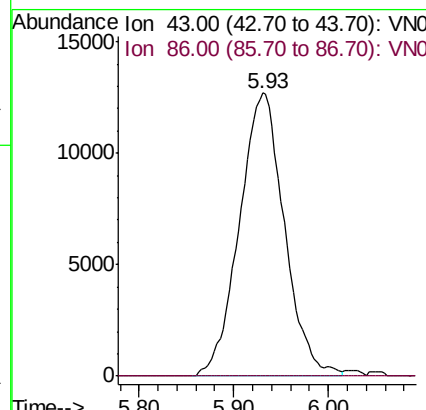
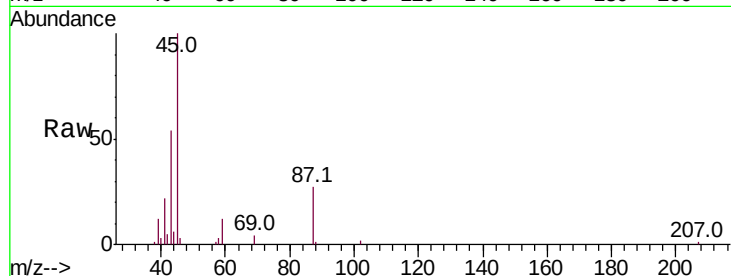




#23
 Vinyl Acetate
 Concen: 3.135 ug/l
 RT: 5.93 min Scan# 1293
 Delta R.T. 0.06 min
 Lab File: VN058585.D
 Acq: 7 Oct 2019 22:18

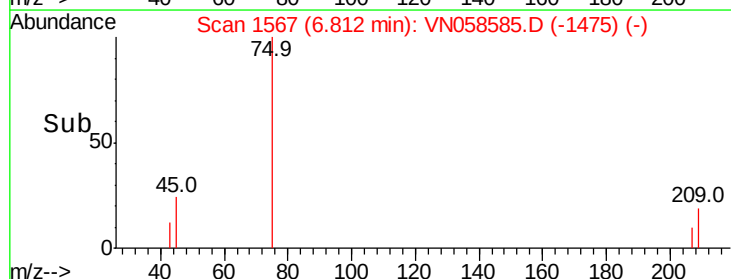
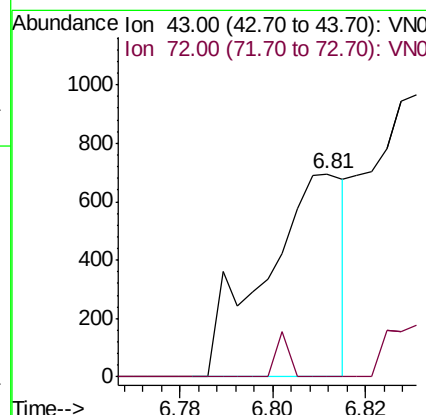
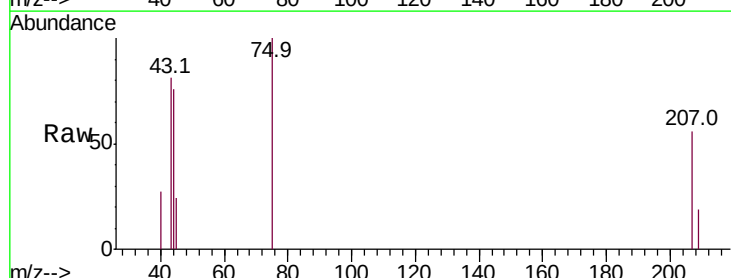
Instrument :
 MSVOA_N
 ClientSampleId :

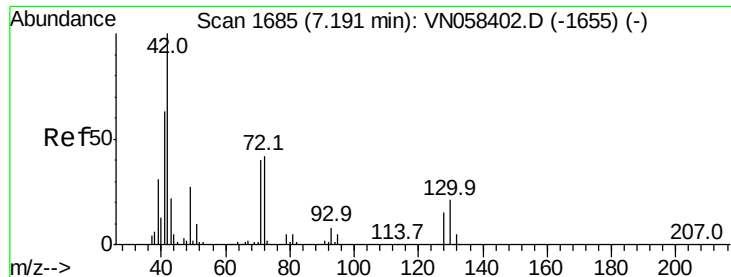
Tot Ion: 43 Resp: 41934
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.7 11.5#



#25
 2-Butanone
 Concen: 0.252 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. -0.00 min
 Lab File: VN058585.D
 Acq: 7 Oct 2019 22:18

Tgt Ion: 43 Resp: 829
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.2 30.4#

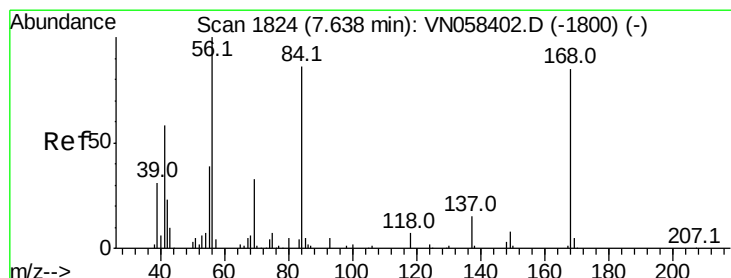
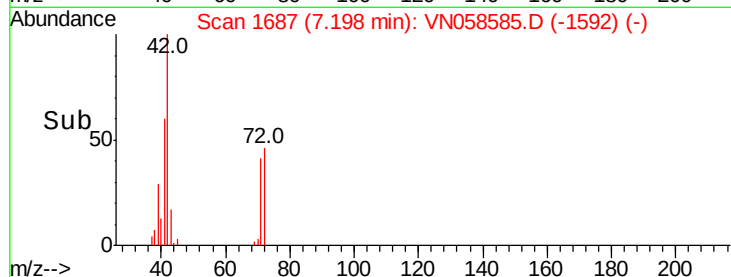
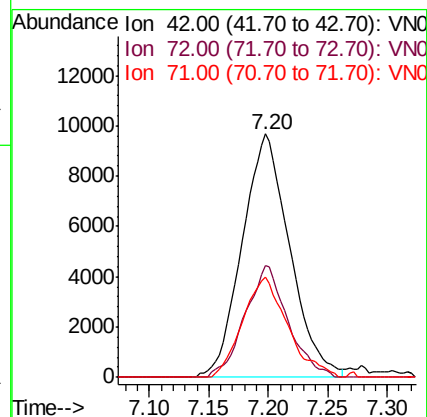
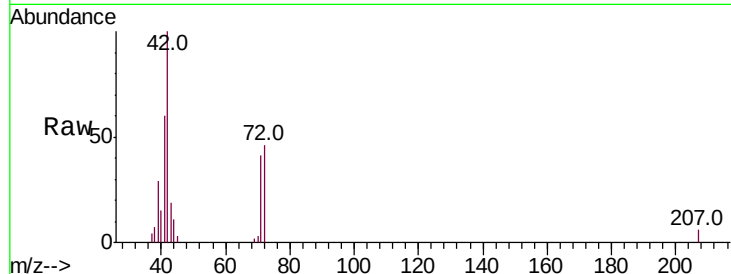




#29
Tetrahydrofuran
Concen: 12.855 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.01 min
Lab File: VN058585.D
Acq: 7 Oct 2019 22:18

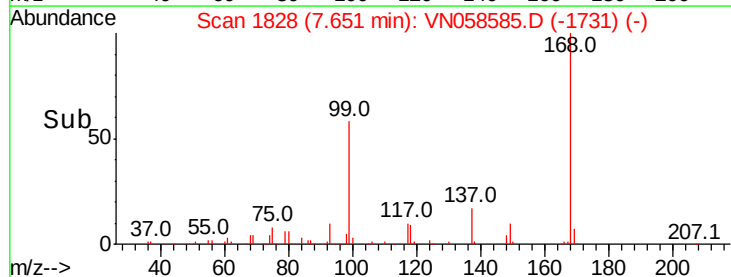
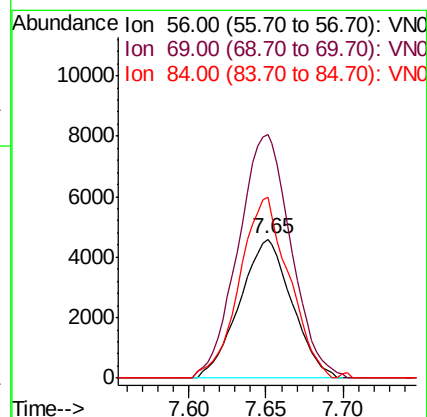
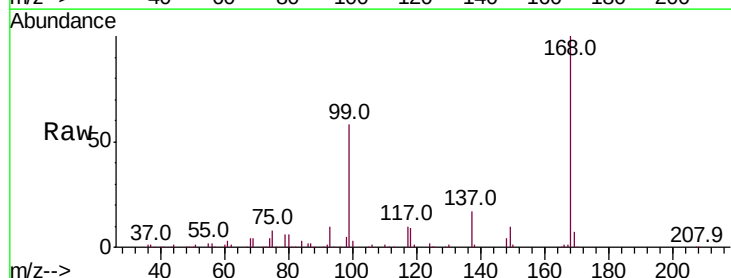
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MSVOA_N
ClientSampleId :

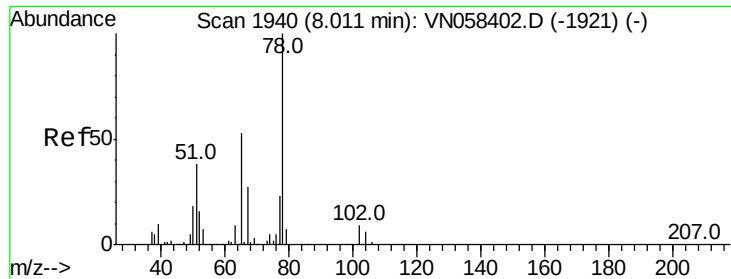
Tot Ion: 42 Resp: 26798
Ion Ratio Lower Upper
42 100
72 41.2 33.7 50.5
71 39.0 31.8 47.6



#31
Cyclohexane
Concen: 1.111 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN058585.D
Acq: 7 Oct 2019 22:18

Tgt Ion: 56 Resp: 10792
Ion Ratio Lower Upper
56 100
69 175.3 26.2 39.4#
84 130.0 67.6 101.4#

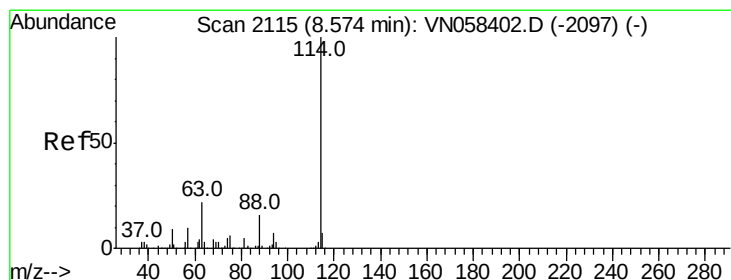
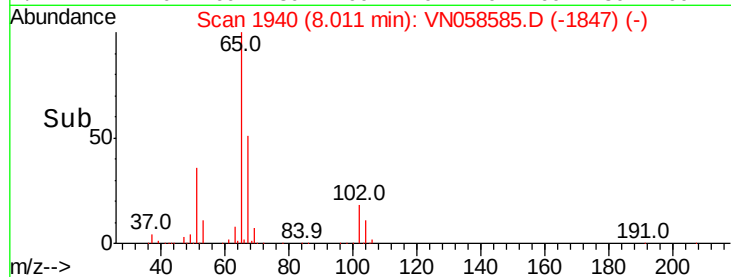
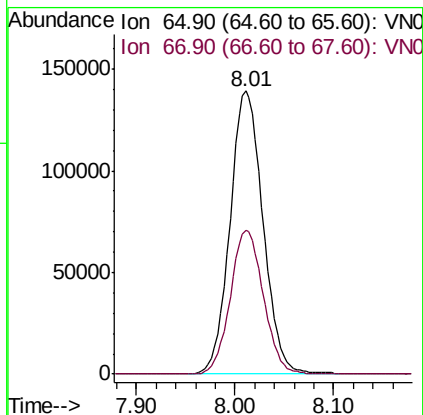
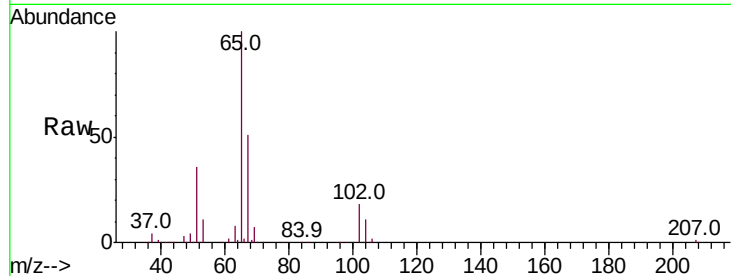




#33
 1,2-Dichloroethane-d4
 Concen: 46.187 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058585.D
 Acq: 7 Oct 2019 22:18

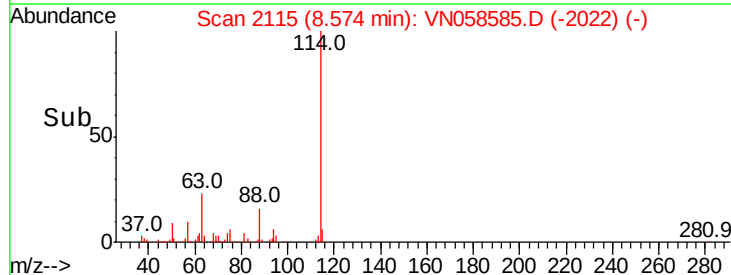
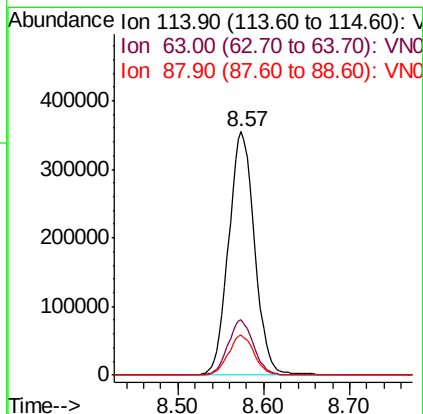
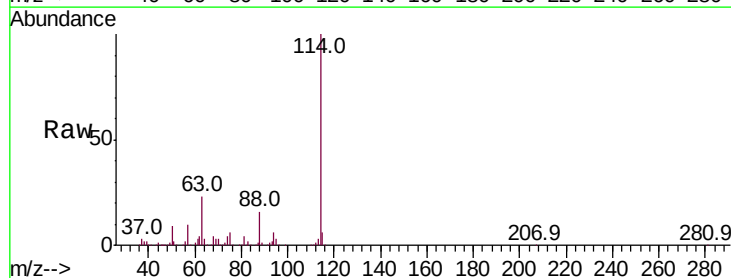
Instrument :
 MSVOA_N
 ClientSampleId :

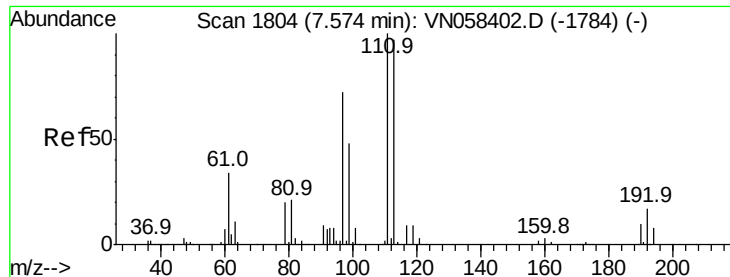
Tot Ion: 65 Resp: 324139
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058585.D
 Acq: 7 Oct 2019 22:18

Tgt Ion: 114 Resp: 743282
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 45.0
 88 16.3 0.0 32.2





#35

Dibromofluoromethane

Concen: 50.608 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058585.D

Acq: 7 Oct 2019 22:18

Instrument :
MSVOA_N
ClientSampleId :

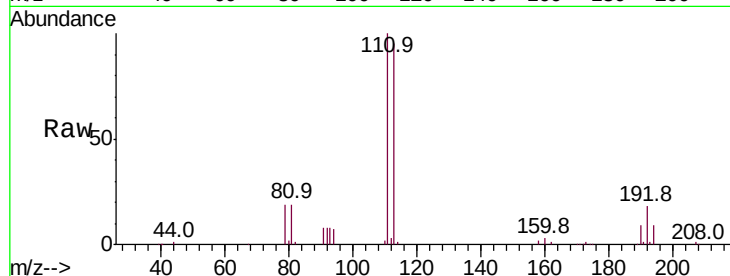
Tot Ion:113 Resp: 230545

Ion Ratio Lower Upper

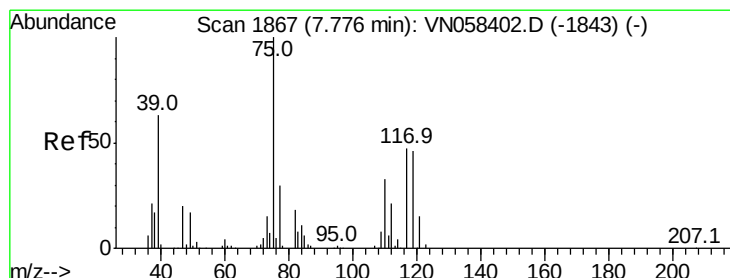
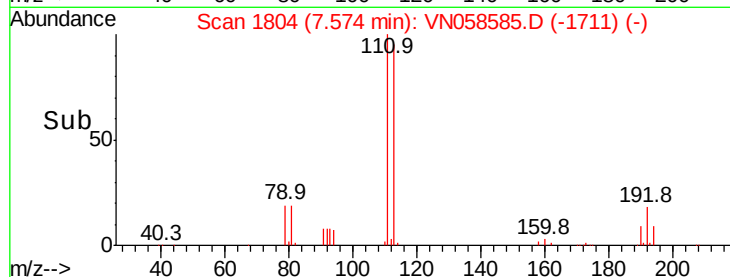
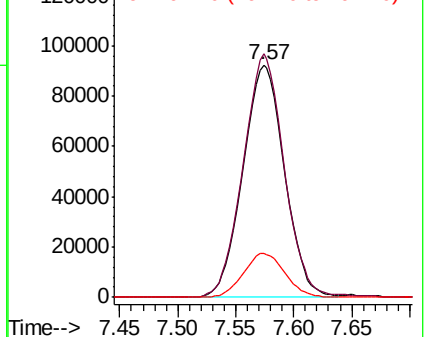
113 100

111 104.0 83.4 125.2

192 19.0 14.9 22.3



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: 5.445 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.13 min

Lab File: VN058585.D

Acq: 7 Oct 2019 22:18

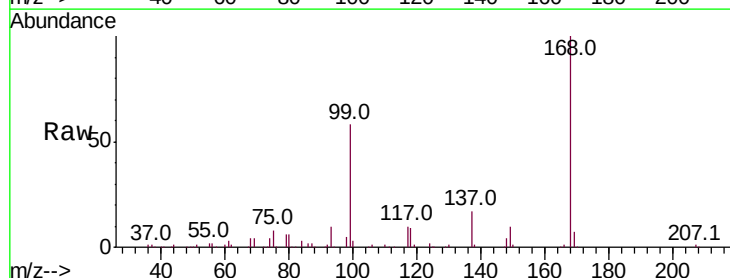
Tgt Ion: 75 Resp: 38698

Ion Ratio Lower Upper

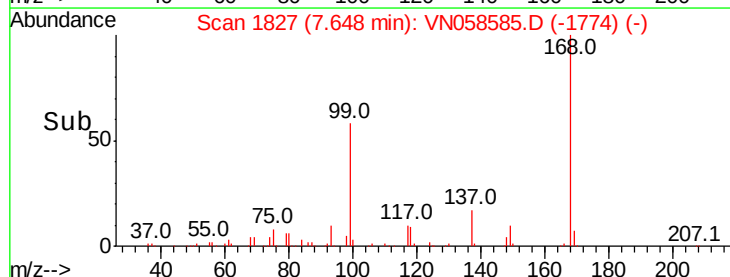
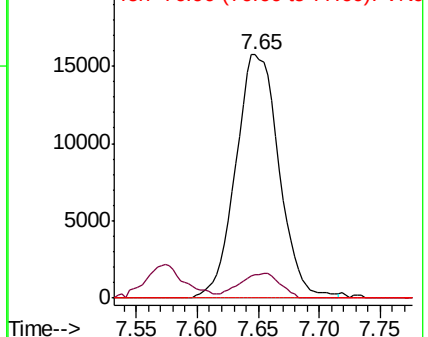
75 100

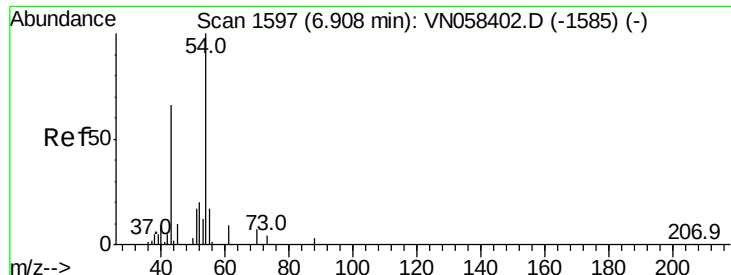
110 9.7 16.4 49.2#

77 0.0 24.3 36.5#



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

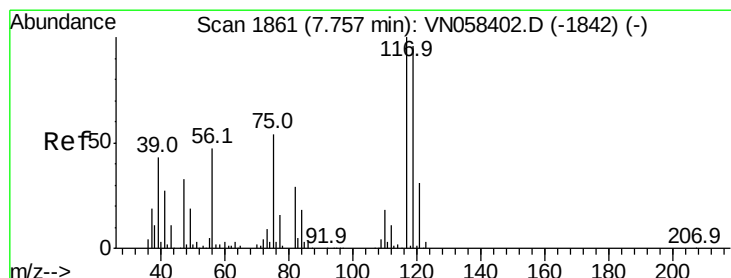
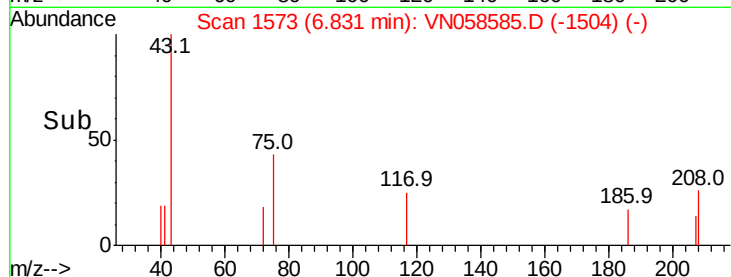
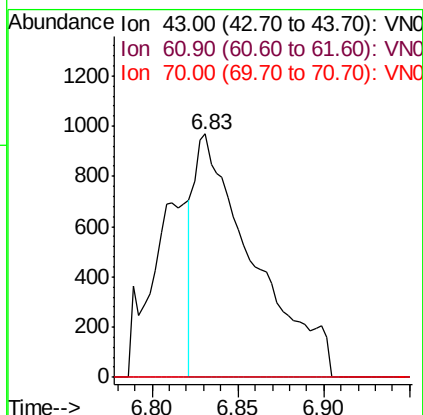
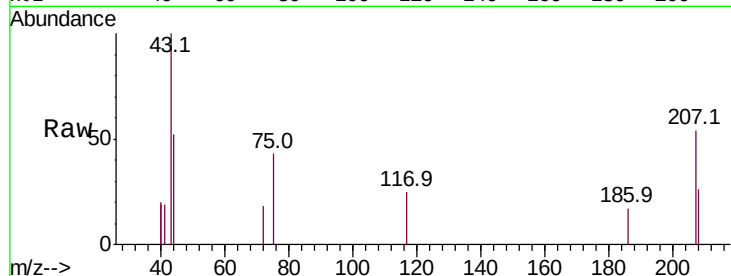




#37
Ethyl Acetate
Concen: 0.383 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. -0.08 min
Lab File: VN058585.D
Acq: 7 Oct 2019 22:18

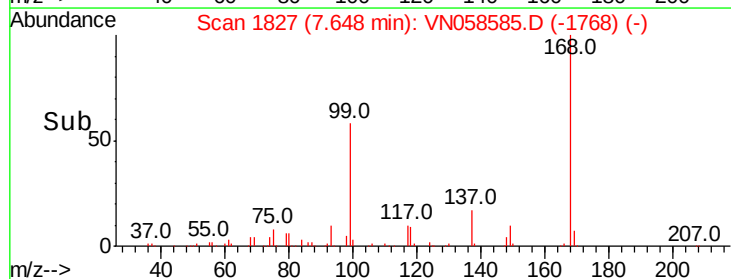
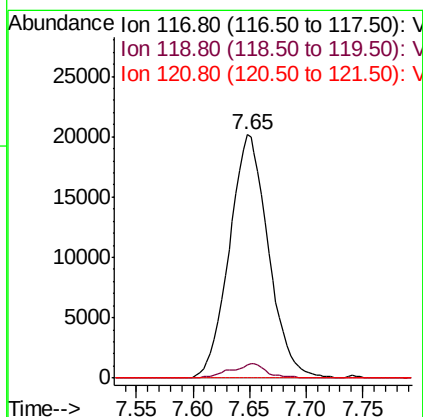
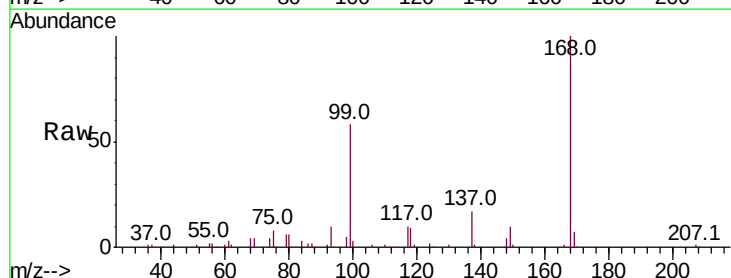
Instrument :
MSVOA_N
ClientSampleId :

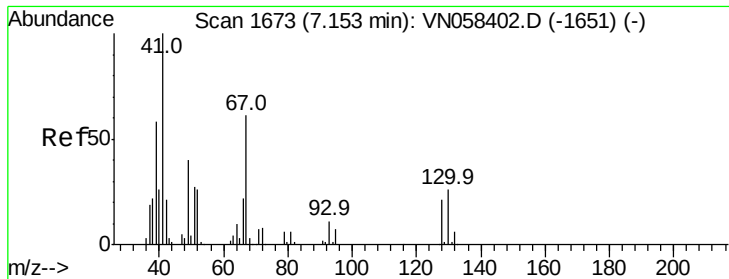
Tot Ion: 43 Resp: 2306
Ion Ratio Lower Upper
43 100
61 0.0 10.5 15.7#
70 0.0 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 7.524 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN058585.D
Acq: 7 Oct 2019 22:18

Tgt Ion: 117 Resp: 48271
Ion Ratio Lower Upper
117 100
119 5.2 76.6 115.0#
121 0.0 24.7 37.1#





#41

Methacrylonitrile

Concen: 5.907 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.05 min

Lab File: VN058585.D

Acq: 7 Oct 2019 22:18

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 16374

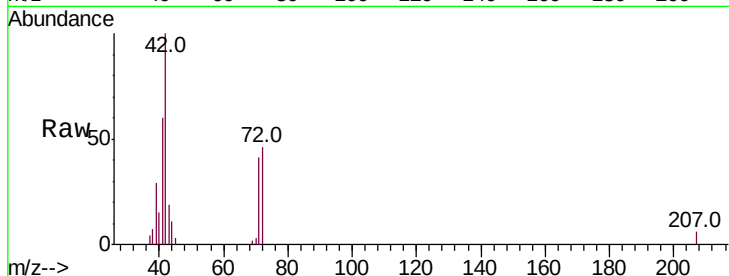
Ion Ratio Lower Upper

41 100

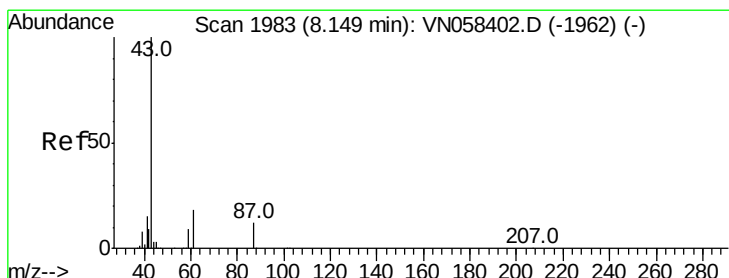
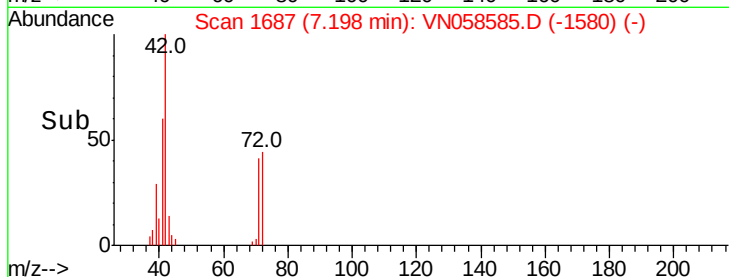
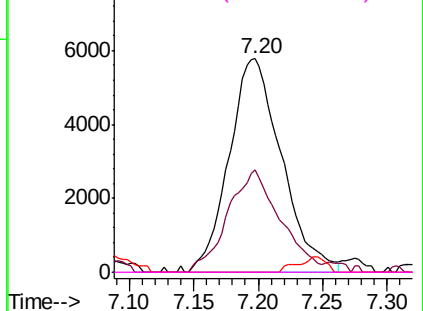
39 47.8 50.2 75.4#

67 0.0 70.2 105.4#

52 0.0 31.4 47.0#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO



#43

Isopropyl Acetate

Concen: 0.320 ug/l

RT: 8.11 min Scan# 1972

Delta R.T. -0.04 min

Lab File: VN058585.D

Acq: 7 Oct 2019 22:18

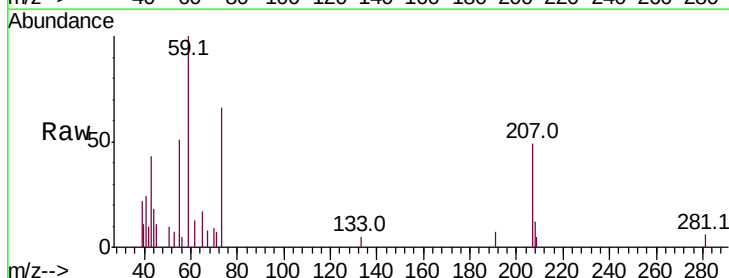
Tgt Ion: 43 Resp: 3628

Ion Ratio Lower Upper

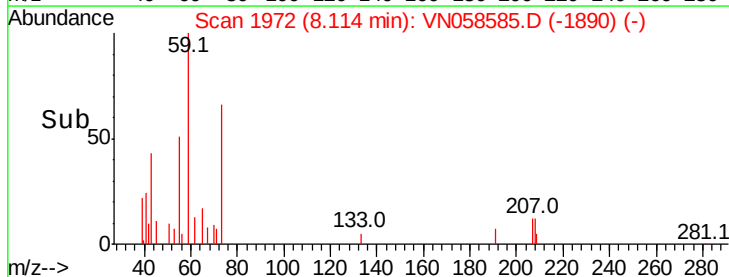
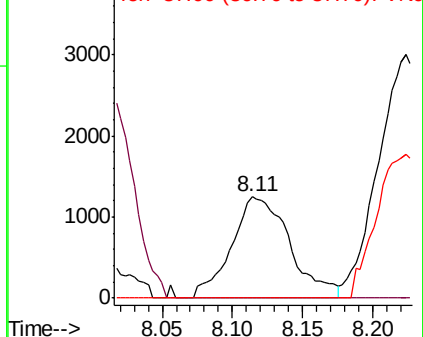
43 100

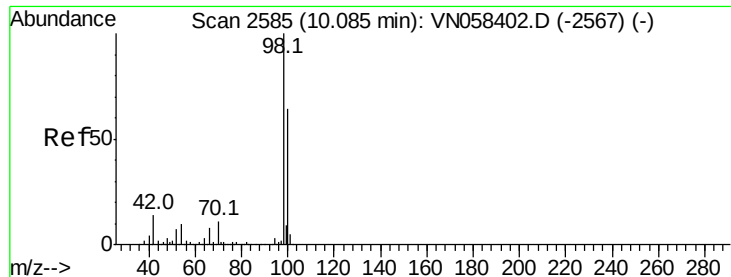
61 0.0 14.8 22.2#

87 0.0 9.7 14.5#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO





#50

Toluene-d8

Concen: 52.495 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058585.D

Acq: 7 Oct 2019 22:18

Instrument :

MSVOA_N

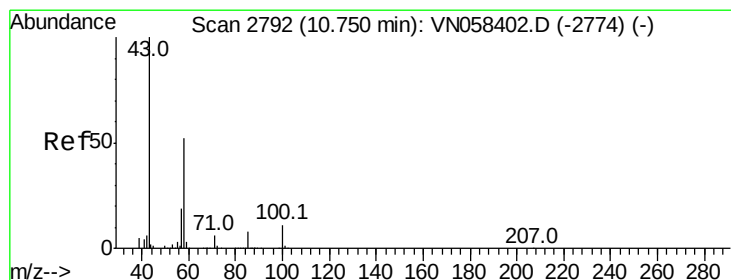
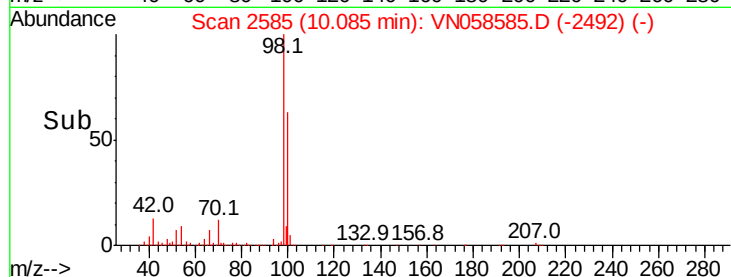
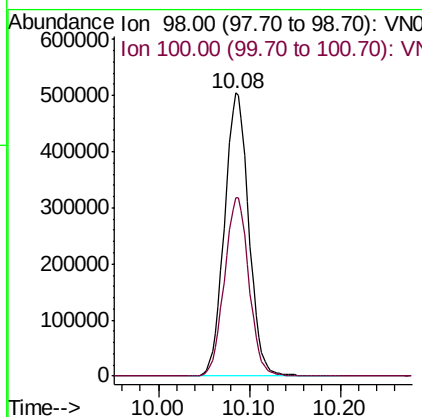
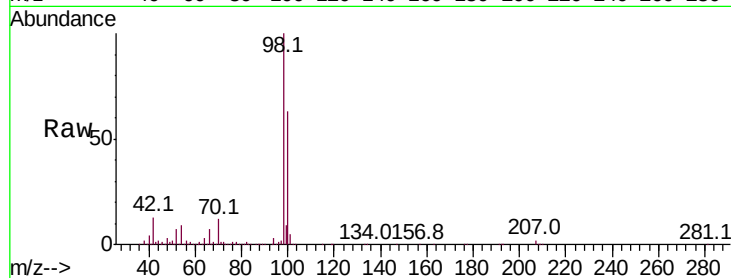
ClientSampled :

Tot Ion: 98 Resp: 936815

Ion Ratio Lower Upper

98 100

100 63.6 51.0 76.6



#59

2-Hexanone

Concen: 1.256 ug/l

RT: 10.72 min Scan# 2782

Delta R.T. -0.03 min

Lab File: VN058585.D

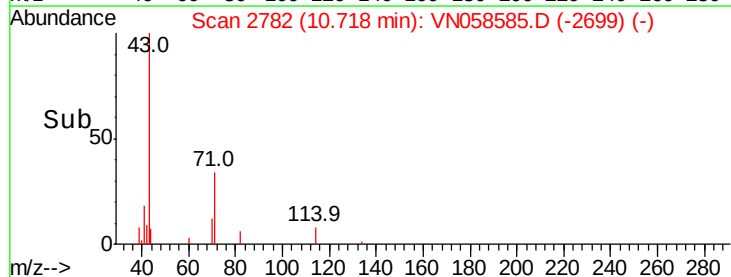
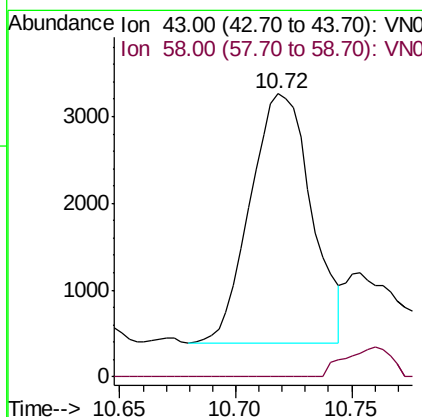
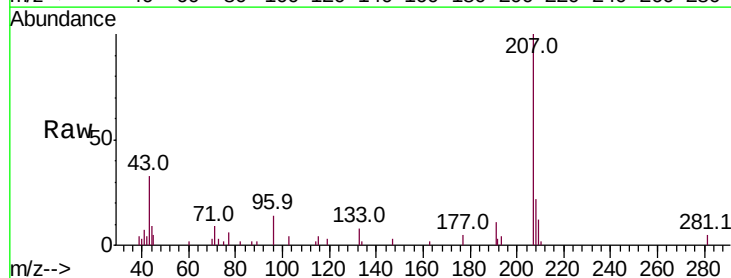
Acq: 7 Oct 2019 22:18

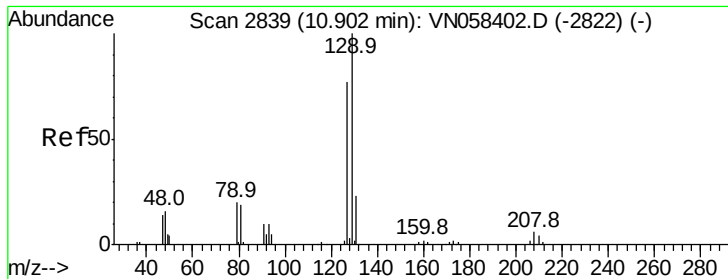
Tgt Ion: 43 Resp: 5323

Ion Ratio Lower Upper

43 100

58 0.0 25.8 77.3#





#60

Dibromochloromethane

Concen: Below Cal

RT: 10.91 min Scan# 2842

Delta R.T. 0.01 min

Lab File: VN058585.D

Acq: 7 Oct 2019 22:18

Instrument :

MSVOA_N

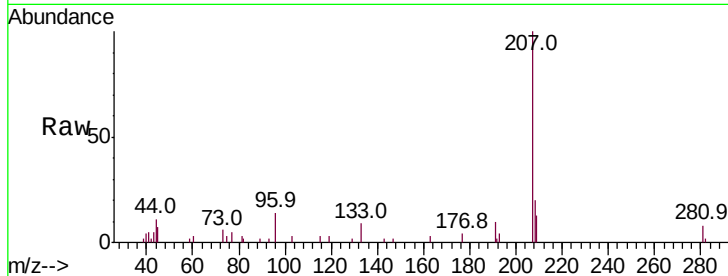
ClientSampled :

Tot Ion:129 Resp: 62

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.91

150

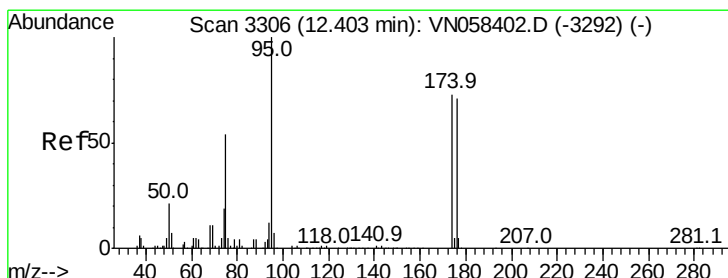
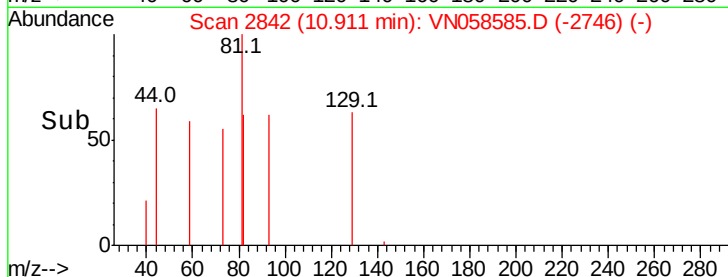
100

50

0

10.90 10.91 10.92

Time-->



#62

4-Bromofluorobenzene

Concen: 48.698 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058585.D

Acq: 7 Oct 2019 22:18

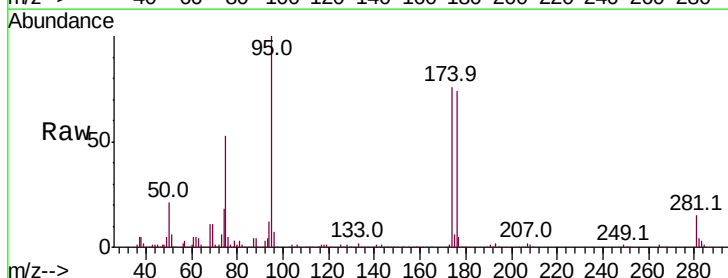
Tgt Ion: 95 Resp: 314231

Ion Ratio Lower Upper

95 100

174 75.1 0.0 150.6

176 73.9 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

250000

200000

150000

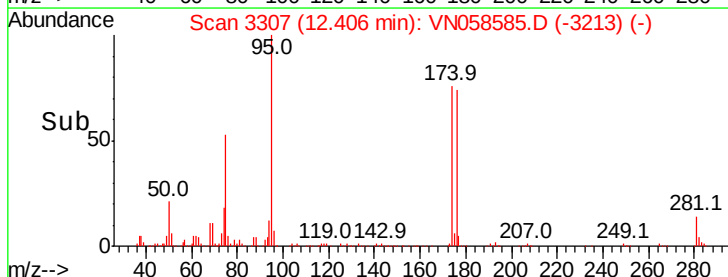
100000

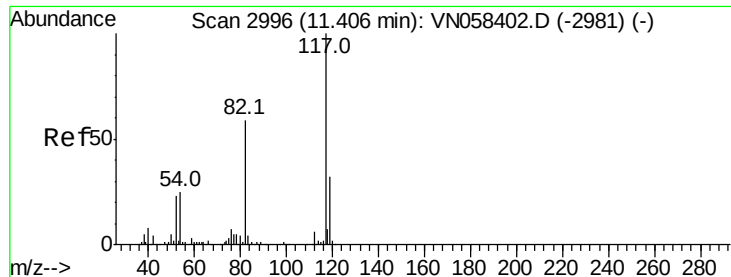
50000

0

12.30 12.40 12.50

Time-->

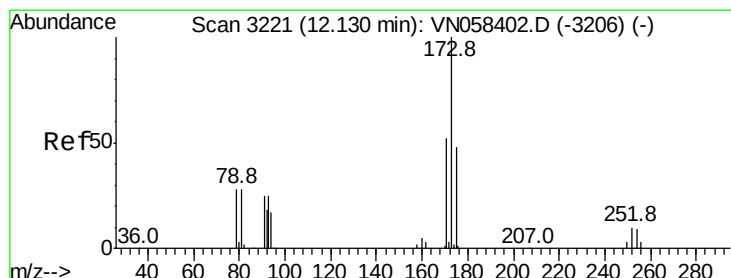
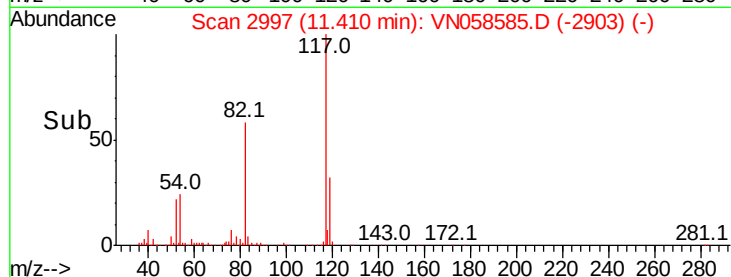
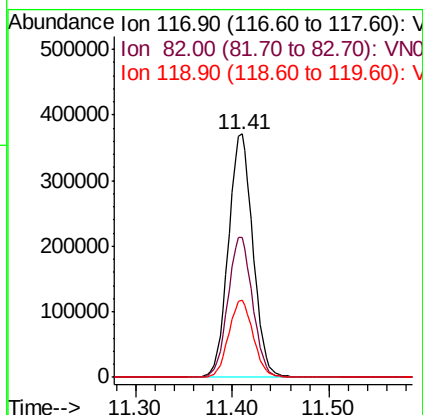
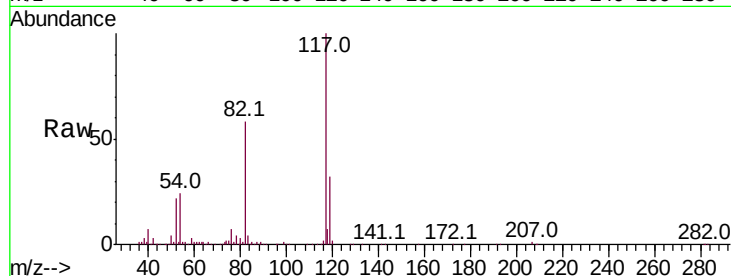




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058585.D
Acq: 7 Oct 2019 22:18

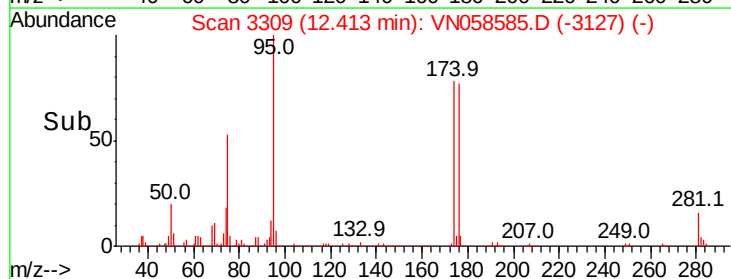
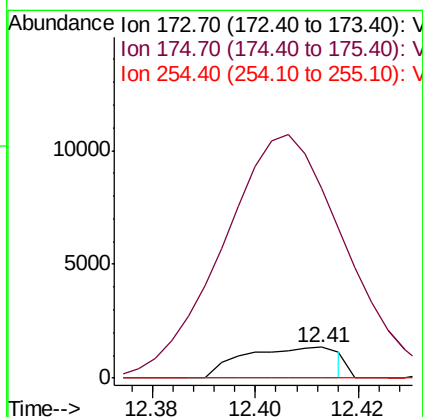
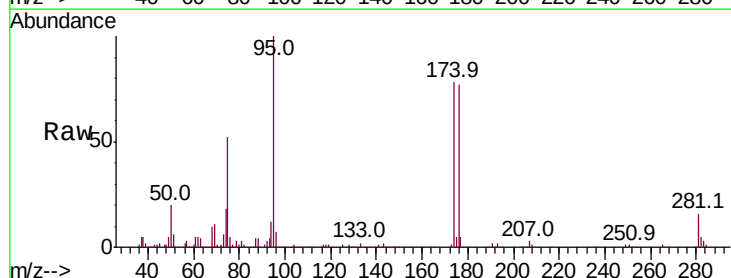
Instrument :
MSVOA_N
ClientSampleId :

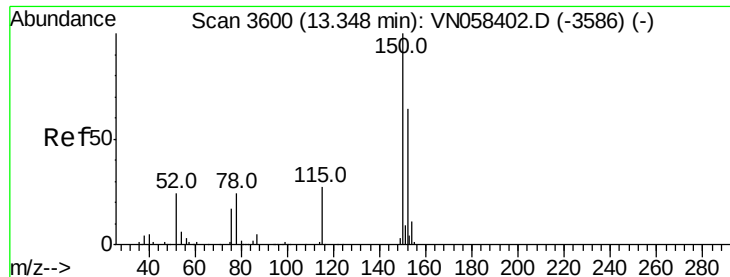
Tot Ion:117 Resp: 651288
Ion Ratio Lower Upper
117 100
82 57.6 47.4 71.0
119 31.8 25.5 38.3



#71
Bromoform
Concen: 1.264 ug/l
RT: 12.41 min Scan# 3309
Delta R.T. 0.28 min
Lab File: VN058585.D
Acq: 7 Oct 2019 22:18

Tgt Ion:173 Resp: 1741
Ion Ratio Lower Upper
173 100
175 867.8 24.3 73.0#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058585.D

Acq: 7 Oct 2019 22:18

Instrument :

MSVOA_N

ClientSampleId :

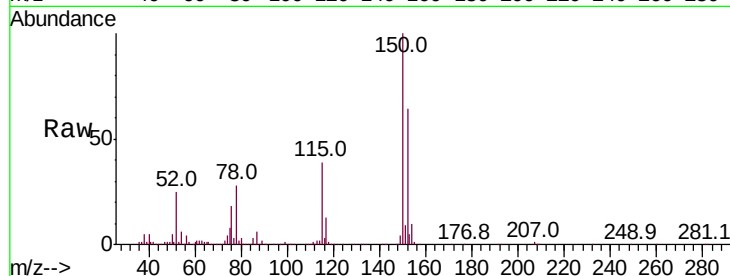
Tot Ion:152 Resp: 271281

Ion Ratio Lower Upper

152 100

115 60.7 30.0 90.0

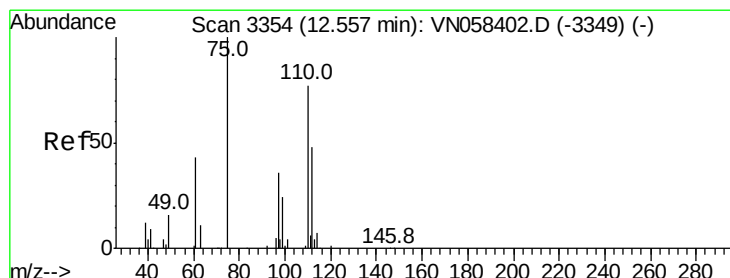
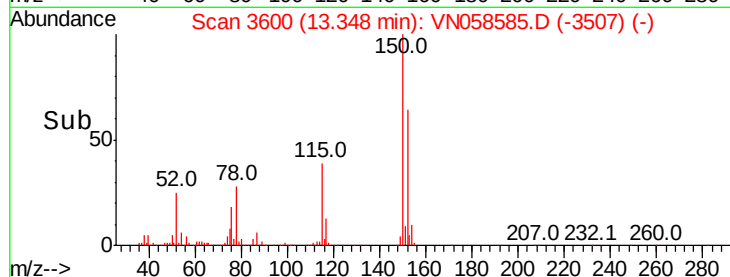
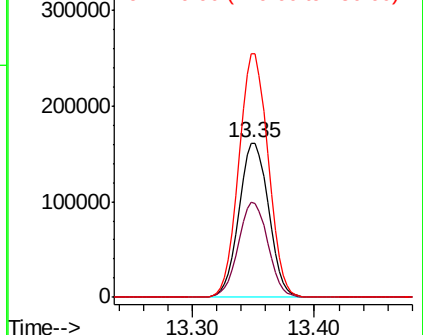
150 155.6 0.0 348.2



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: 33.617 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058585.D

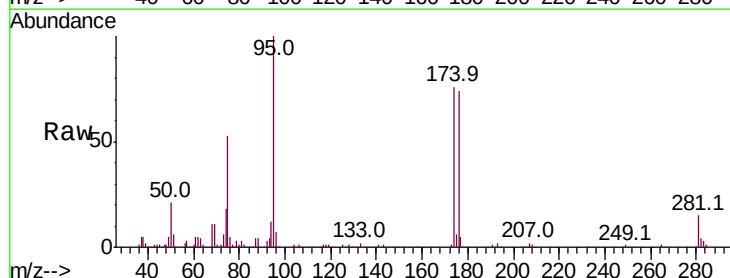
Acq: 7 Oct 2019 22:18

Tgt Ion: 75 Resp: 166573

Ion Ratio Lower Upper

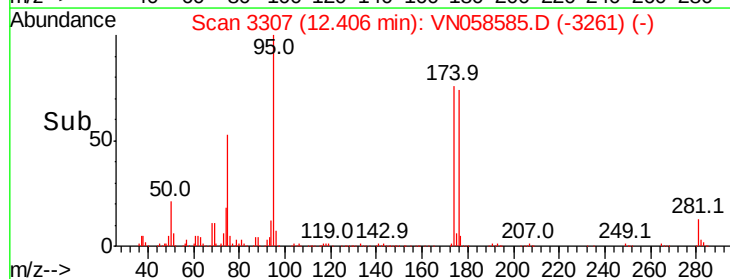
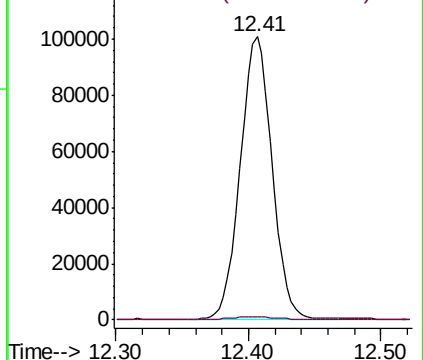
75 100

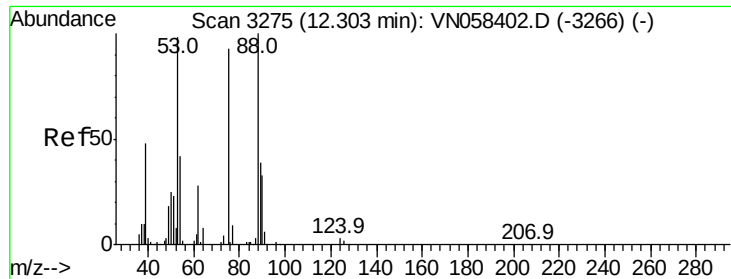
77 1.2 0.0 0.0#



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: 102.100 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN058585.D
 Acq: 7 Oct 2019 22:18

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 166573
 Ion Ratio Lower Upper
 75 100
 53 0.2 85.4 128.0#
 89 0.3 35.0 52.4#

