

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122018\
 Data File : VN053048.D
 Acq On : 20 Dec 2018 11:27
 Operator : MD\SY
 Sample : VN1220WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 21 00:14:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1024705	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1553316	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1388831	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	652166	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	537785	51.72	ug/l	0.00
Spiked Amount			Recovery	=	103.44%	
35) Dibromofluoromethane	7.59	113	429652	60.55	ug/l	0.00
Spiked Amount			Recovery	=	121.10%	
50) Toluene-d8	10.09	98	1999658	52.50	ug/l	0.00
Spiked Amount			Recovery	=	105.00%	
62) 4-Bromofluorobenzene	12.40	95	688666	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	190199	18.340	ug/l	100
3) Chloromethane	2.06	50	234930	18.694	ug/l	100
4) Vinyl Chloride	2.19	62	235948	18.538	ug/l	97
5) Bromomethane	2.58	94	157532	17.865	ug/l	99
6) Chloroethane	2.71	64	140119	18.588	ug/l	99
7) Trichlorofluoromethane	3.02	101	303641	19.151	ug/l	99
8) Diethyl Ether	3.41	74	118148	19.752	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.77	101	194647	19.254	ug/l	98
10) Methyl Iodide	3.96	142	270960	19.086	ug/l	99
11) Tert butyl alcohol	4.78	59	58909	92.844	ug/l #	93
12) 1,1-Dichloroethene	3.74	96	185635	19.007	ug/l	99
13) Acrolein	3.61	56	51099	88.818	ug/l	97
14) Allyl chloride	4.33	41	282044	18.643	ug/l	99
15) Acrylonitrile	4.99	53	337550	95.761	ug/l	99
16) Acetone	3.82	43	186889	91.663	ug/l	95
17) Carbon Disulfide	4.06	76	511564	16.061	ug/l	99
18) Methyl Acetate	4.32	43	173067	19.323	ug/l	99
19) Methyl tert-butyl Ether	5.04	73	509416	19.490	ug/l	99
20) Methylene Chloride	4.55	84	214584	19.294	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	197720	18.842	ug/l	99
22) Diisopropyl ether	5.95	45	649938	20.127	ug/l	97
23) Vinyl Acetate	5.90	43	1890492	101.810	ug/l	98
24) 1,1-Dichloroethane	5.85	63	376192	19.605	ug/l	99
25) 2-Butanone	6.83	43	338890	99.040	ug/l	99
26) 2,2-Dichloropropane	6.83	77	273534	18.674	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	233880	19.687	ug/l	98
28) Bromochloromethane	7.20	49	163451	19.658	ug/l	95
29) Tetrahydrofuran	7.21	42	249369	97.578	ug/l	97
30) Chloroform	7.37	83	367025	19.471	ug/l	100
31) Cyclohexane	7.65	56	363099	19.535	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	302410	18.833	ug/l	99
36) 1,1-Dichloropropene	7.79	75	287246	19.266	ug/l	99
37) Ethyl Acetate	6.93	43	166218	19.971	ug/l	99
38) Carbon Tetrachloride	7.77	117	259174	18.965	ug/l	99

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	338322	18.680	ug/l	97
40) Benzene	8.04	78	875277	19.737	ug/l	100
41) Methacrylonitrile	7.17	41	98774	20.540	ug/l	96
42) 1,2-Dichloroethane	8.12	62	252554	19.278	ug/l	98
43) Isopropyl Acetate	8.16	43	320423	19.252	ug/l	100
44) Trichloroethene	8.84	130	244289	19.045	ug/l	98
45) 1,2-Dichloropropane	9.12	63	230725	19.974	ug/l	100
46) Dibromomethane	9.21	93	131897	19.601	ug/l	98
47) Bromodichloromethane	9.40	83	275342	19.250	ug/l	99
48) Methyl methacrylate	9.20	41	152819	18.922	ug/l	97
49) 1,4-Dioxane	9.20	88	37140	363.537	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	819388	101.659	ug/l	99
52) Toluene	10.16	92	536192	19.507	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	276191	18.363	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	335235	19.418	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	190347	19.849	ug/l	98
56) Ethyl methacrylate	10.43	69	249495	19.657	ug/l	97
57) 1,3-Dichloropropane	10.71	76	329558	20.041	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	708043	101.610	ug/l	98
59) 2-Hexanone	10.75	43	541678	99.329	ug/l	98
60) Dibromochloromethane	10.90	129	201185	18.328	ug/l	99
61) 1,2-Dibromoethane	11.01	107	189593	19.467	ug/l	100
64) Tetrachloroethene	10.63	164	273741	18.196	ug/l	99
65) Chlorobenzene	11.43	112	631000	20.496	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	203178	18.978	ug/l	98
67) Ethyl Benzene	11.51	91	1039218	19.628	ug/l	99
68) m/p-Xylenes	11.62	106	784697	38.987	ug/l	99
69) o-Xylene	11.95	106	388058	20.092	ug/l	100
70) Styrene	11.96	104	629724	19.996	ug/l	100
71) Bromoform	12.13	173	135746	17.552	ug/l #	99
73) Isopropylbenzene	12.25	105	1023078	20.050	ug/l	100
74) N-amyl acetate	12.07	43	281334	19.859	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	208700	20.848	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	282166	25.702	ug/l #	100
77) Bromobenzene	12.53	156	301953	22.765	ug/l	82
78) n-propylbenzene	12.59	91	1149831	19.786	ug/l	99
79) 2-Chlorotoluene	12.67	91	677837	18.817	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	825234	19.842	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	59890	17.583	ug/l	98
82) 4-Chlorotoluene	12.77	91	691159	19.601	ug/l	99
83) tert-Butylbenzene	12.99	119	714779	19.432	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	839123	20.070	ug/l	100
85) sec-Butylbenzene	13.17	105	950124	19.097	ug/l	99
86) p-Isopropyltoluene	13.29	119	834098	19.402	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	449243	19.137	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	447925	18.841	ug/l	99
89) n-Butylbenzene	13.62	91	683142	18.471	ug/l	99
90) Hexachloroethane	13.88	117	113196	17.158	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	433559	19.623	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	32631	18.852	ug/l	97

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Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
Response via : Initial Calibration

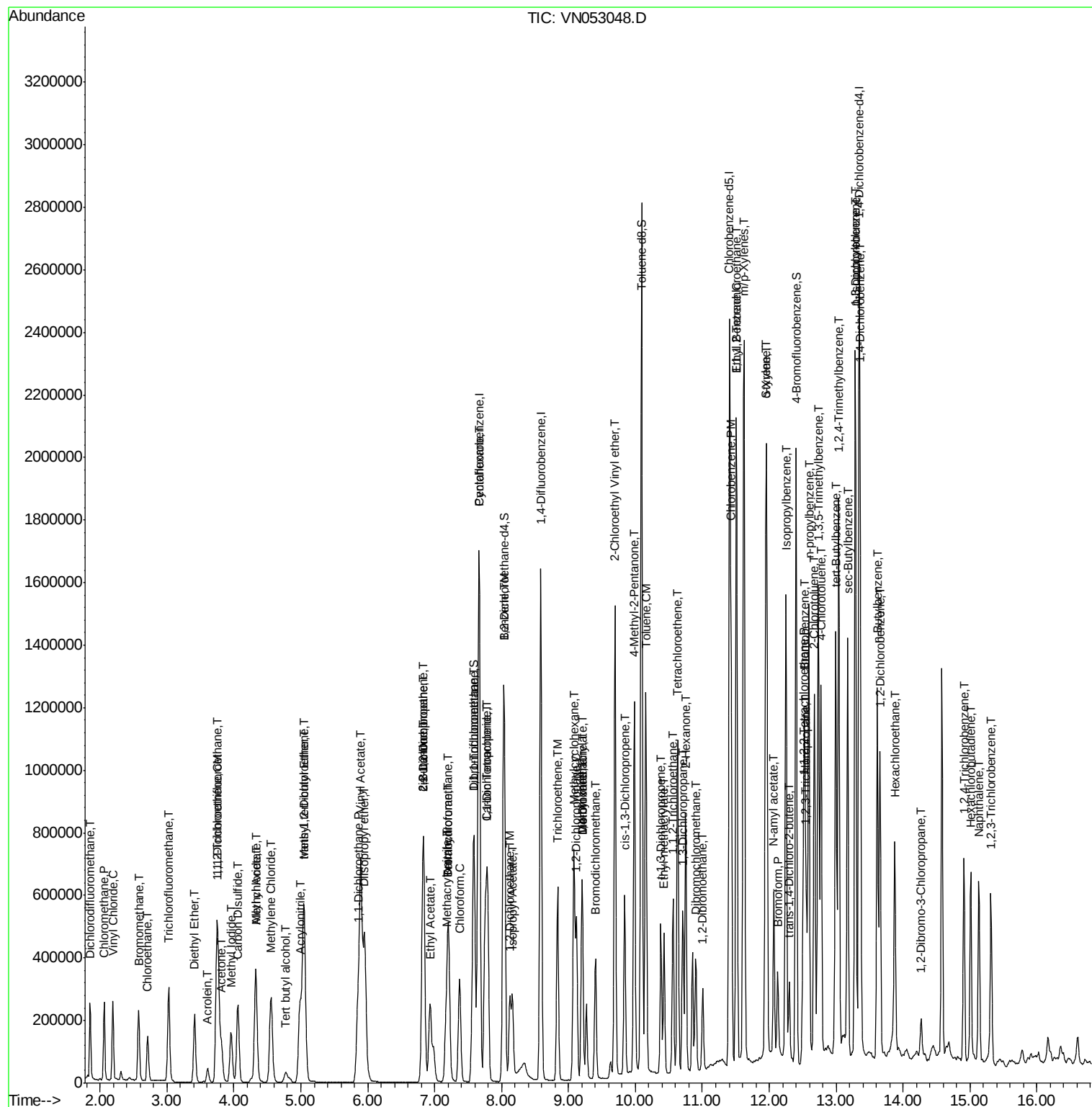
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	223038	19.423	ug/l	98
94) Hexachlorobutadiene	15.01	225	132226	20.099	ug/l	99
95) Naphthalene	15.13	128	502046	20.277	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	204169	19.680	ug/l	99

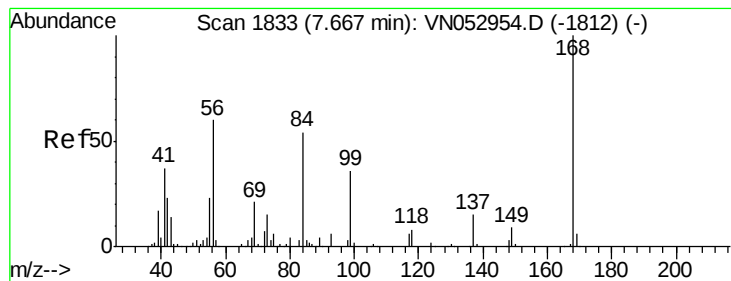
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

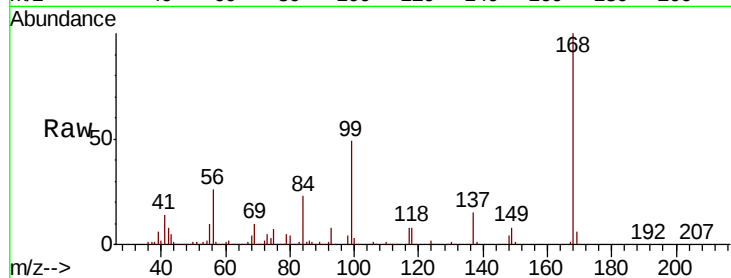
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 1024705

Ion Ratio Lower Upper

168 100

99 48.9 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

300000

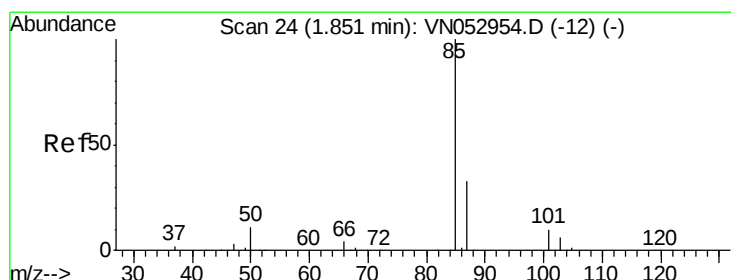
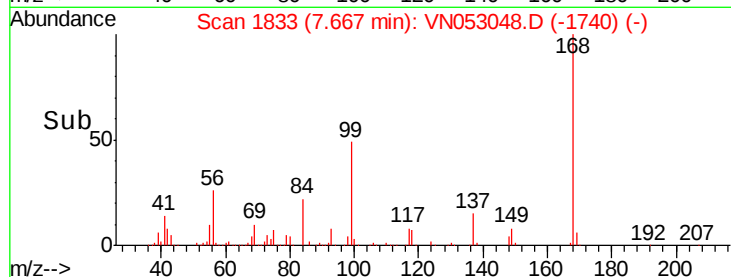
200000

100000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 18.340 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN053048.D

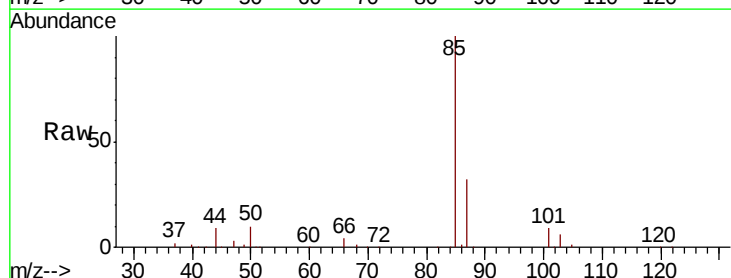
Acq: 20 Dec 2018 11:27

Tgt Ion: 85 Resp: 190199

Ion Ratio Lower Upper

85 100

87 32.5 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

150000

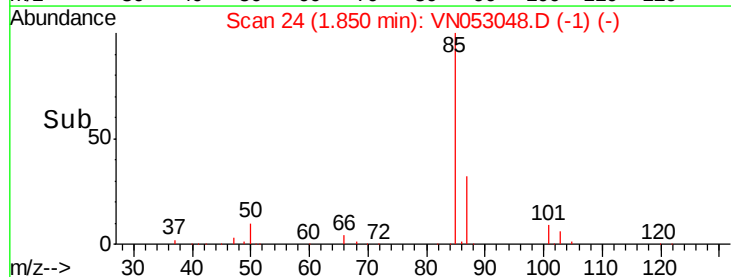
100000

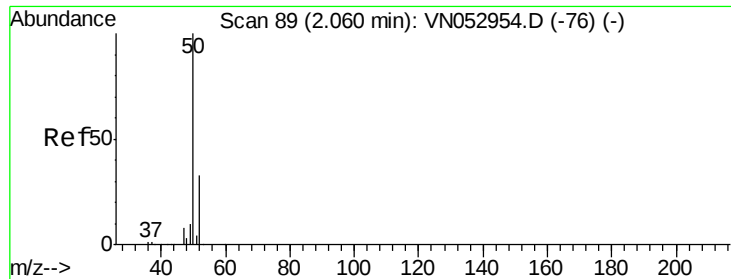
50000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 18.694 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

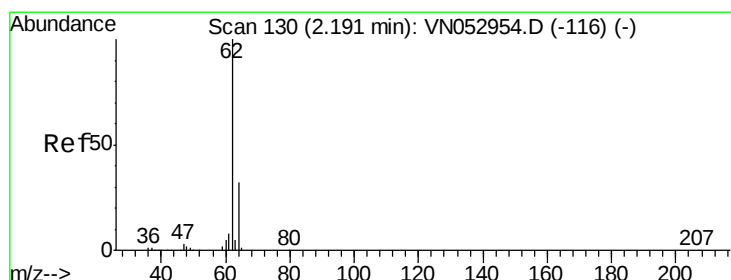
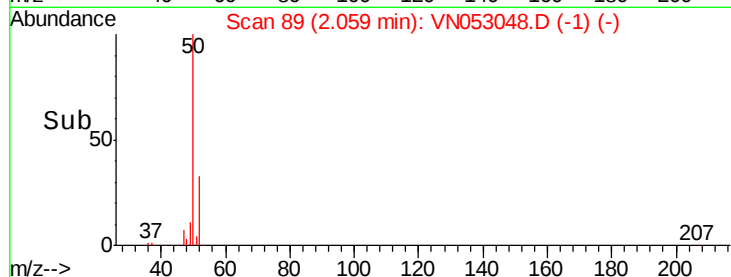
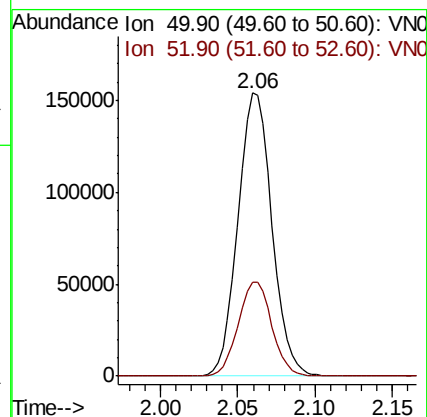
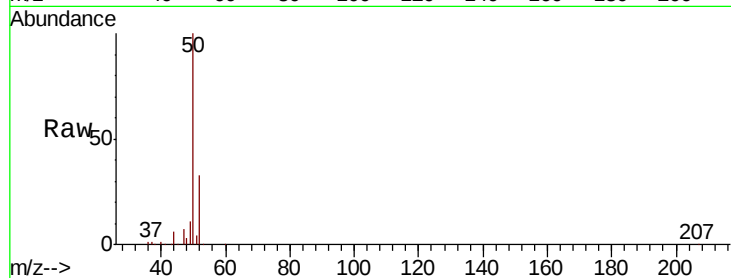
ClientSampleId :

Tot Ion: 50 Resp: 234930

Ion Ratio Lower Upper

50 100

52 33.1 26.2 39.4



#4

Vinyl Chloride

Concen: 18.538 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN053048.D

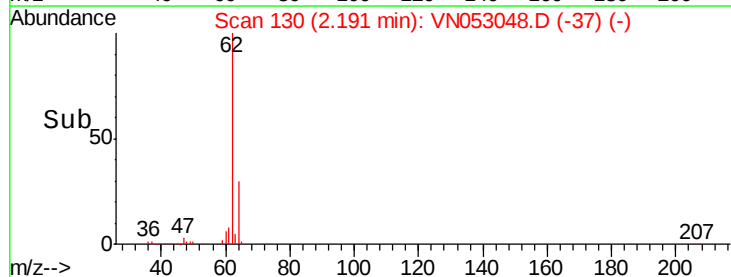
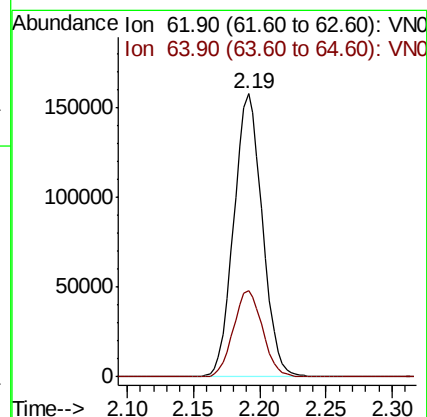
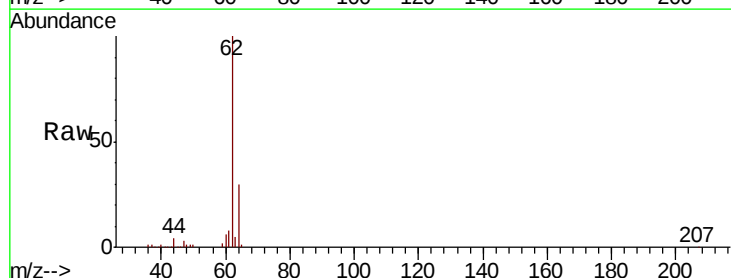
Acq: 20 Dec 2018 11:27

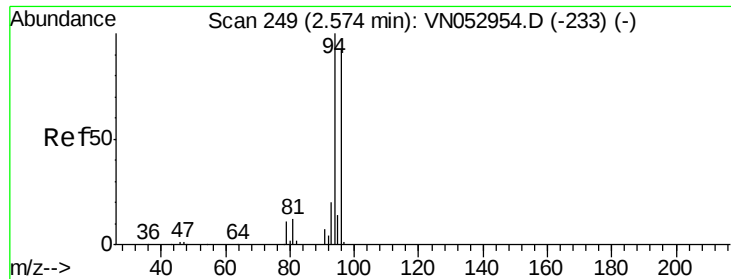
Tgt Ion: 62 Resp: 235948

Ion Ratio Lower Upper

62 100

64 30.4 25.5 38.3





#5

Bromomethane

Concen: 17.865 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

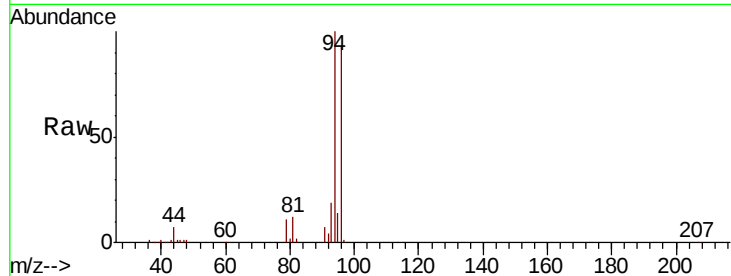
ClientSampleId :

Tot Ion: 94 Resp: 157532

Ion Ratio Lower Upper

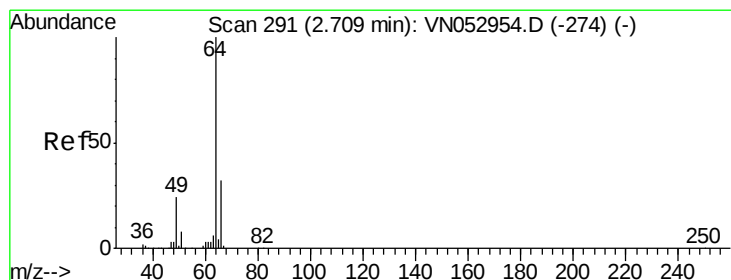
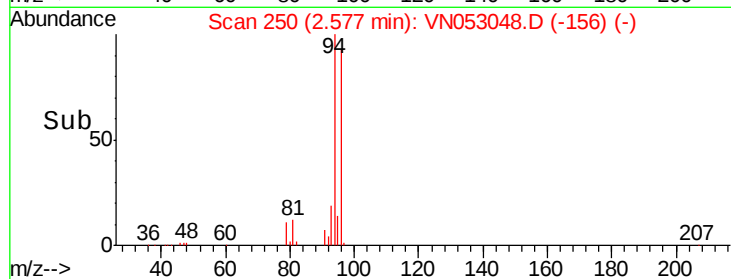
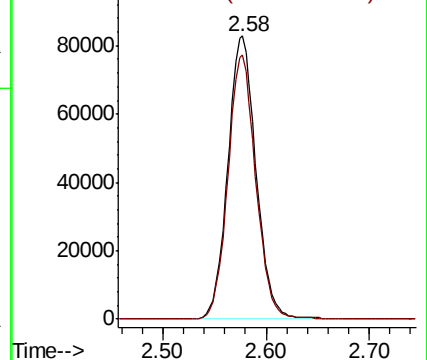
94 100

96 93.1 75.0 112.4



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 18.588 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN053048.D

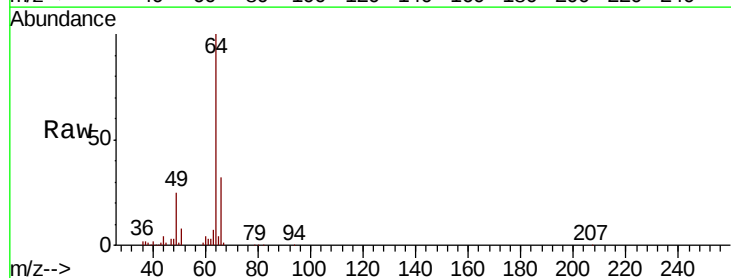
Acq: 20 Dec 2018 11:27

Tgt Ion: 64 Resp: 140119

Ion Ratio Lower Upper

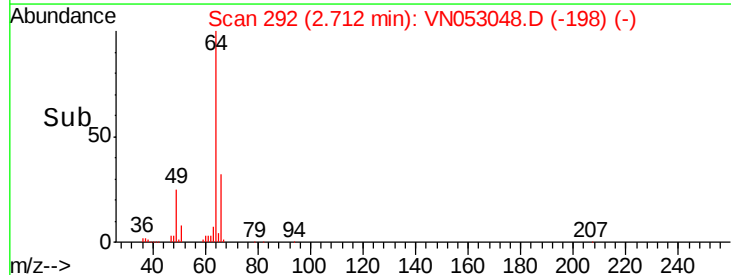
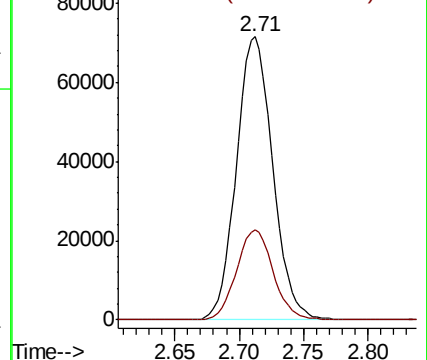
64 100

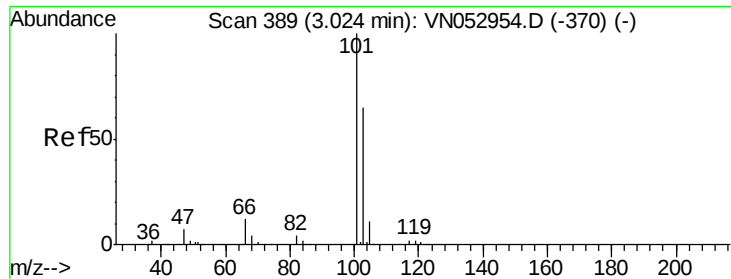
66 31.9 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



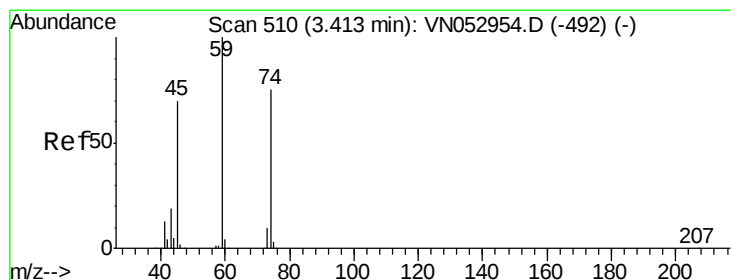
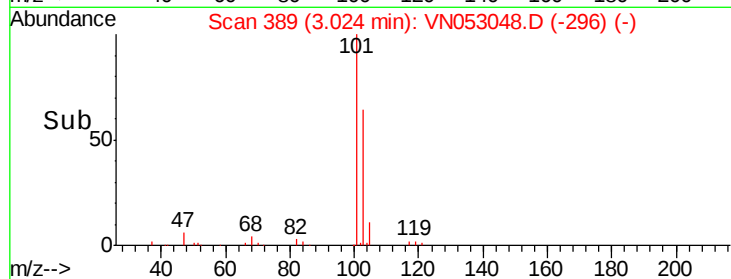
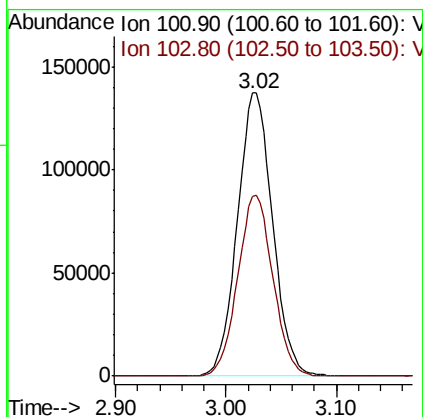
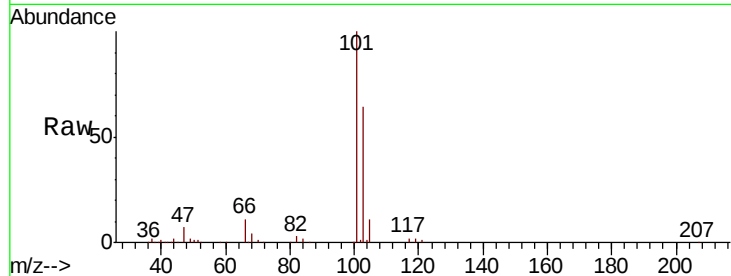


#7

Trichlorofluoromethane
Concen: 19.151 ug/l
RT: 3.02 min Scan# 389
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Instrument :
MSVOA_N
ClientSampled :

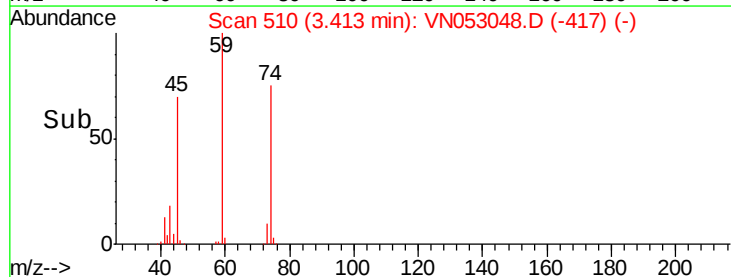
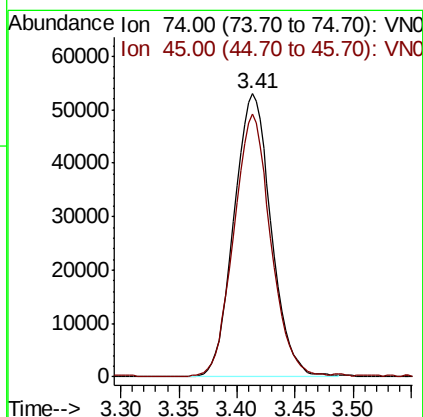
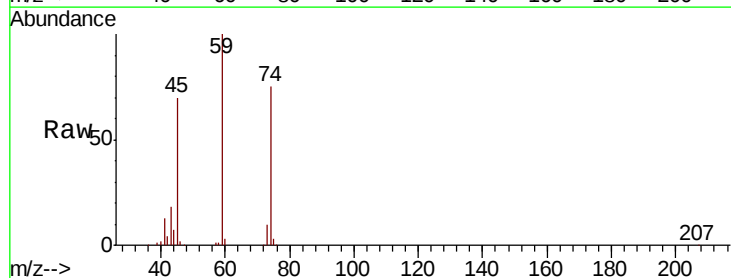
Tot Ion:101 Resp: 303641
Ion Ratio Lower Upper
101 100
103 63.5 51.8 77.6

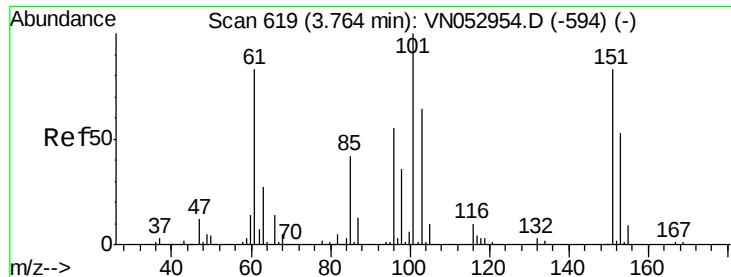


#8

Diethyl Ether
Concen: 19.752 ug/l
RT: 3.41 min Scan# 510
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Tgt Ion: 74 Resp: 118148
Ion Ratio Lower Upper
74 100
45 92.2 49.4 148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.254 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

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ClientSampleId :

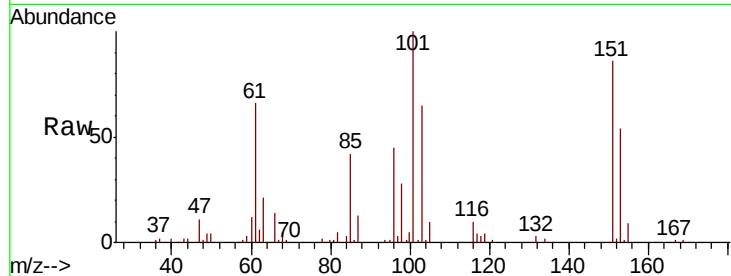
Tot Ion:101 Resp: 194647

Ion Ratio Lower Upper

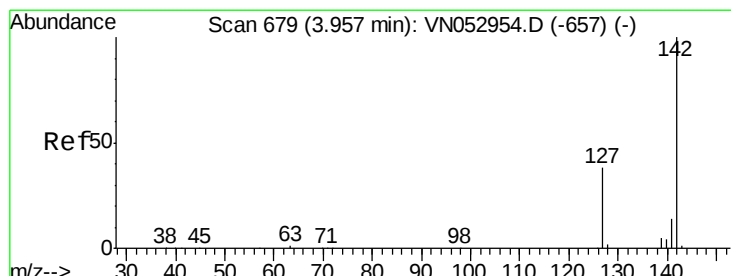
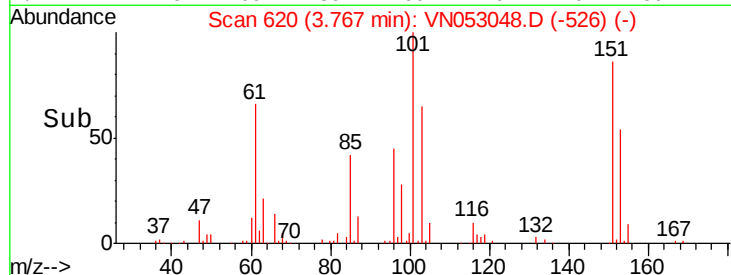
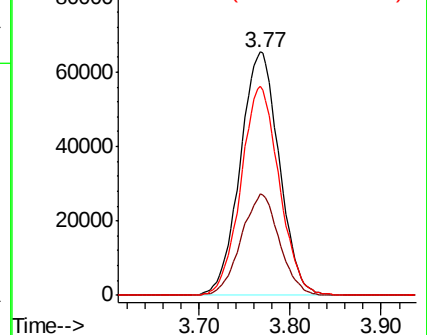
101 100

85 40.9 33.6 50.4

151 84.2 65.5 98.3



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 19.086 ug/l

RT: 3.96 min Scan# 679

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

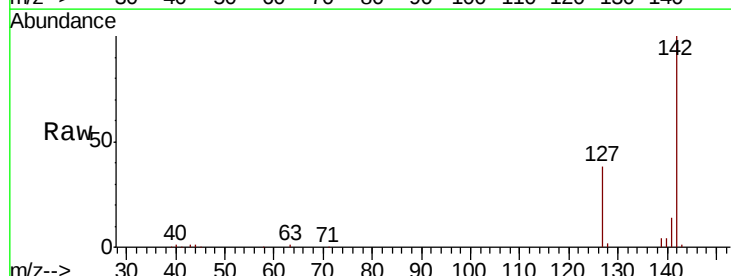
Tgt Ion:142 Resp: 270960

Ion Ratio Lower Upper

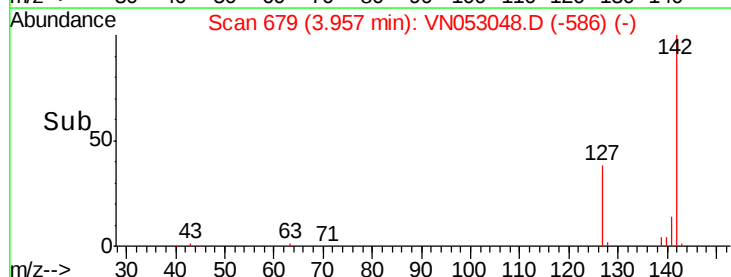
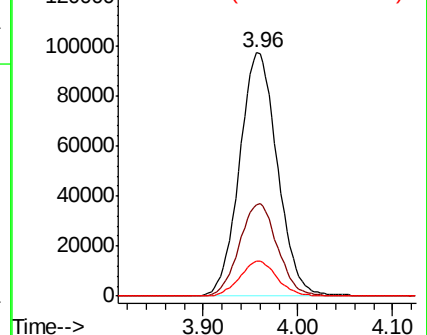
142 100

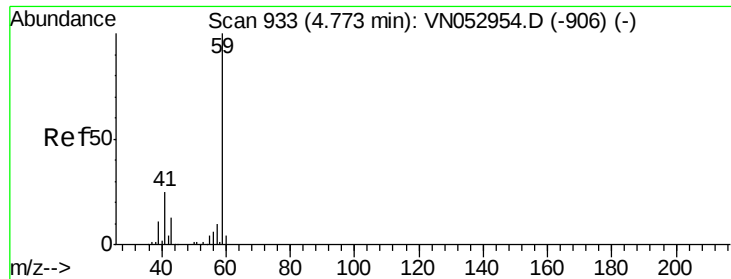
127 38.2 31.0 46.6

141 14.1 11.2 16.8



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V



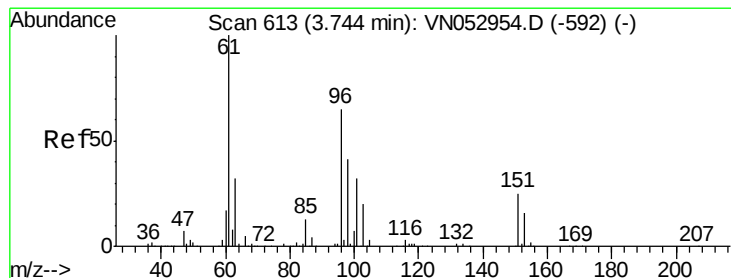
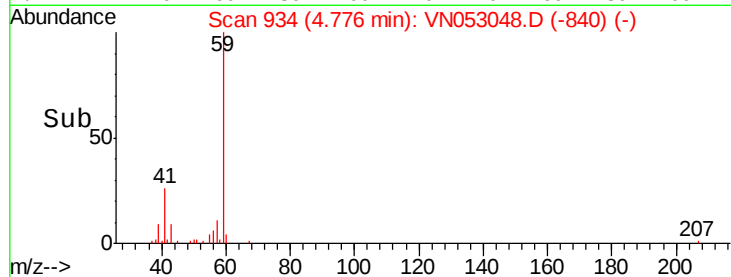
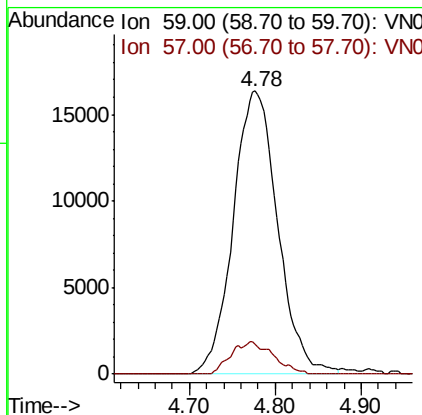
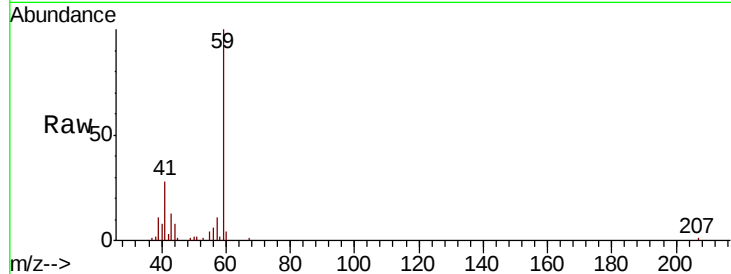


#11

Tert butyl alcohol
Concen: 92.844 ug/l
RT: 4.78 min Scan# 934
Delta R.T. 0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Instrument :
MSVOA_N
ClientSampleId :

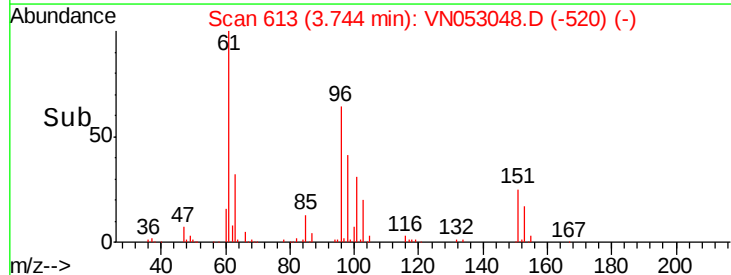
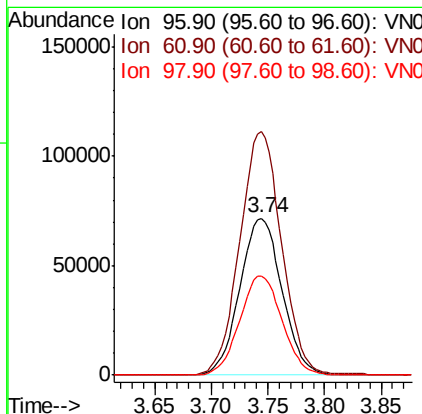
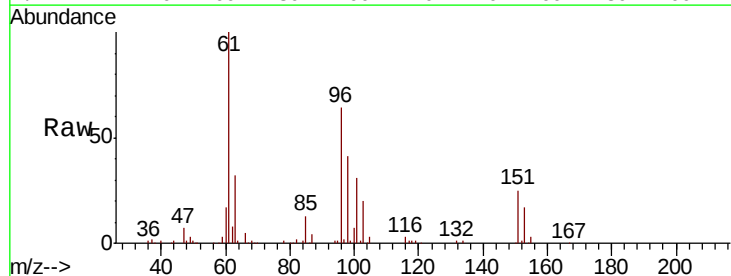
Tot Ion: 59 Resp: 58909
Ion Ratio Lower Upper
59 100
57 7.1 7.7 11.5#

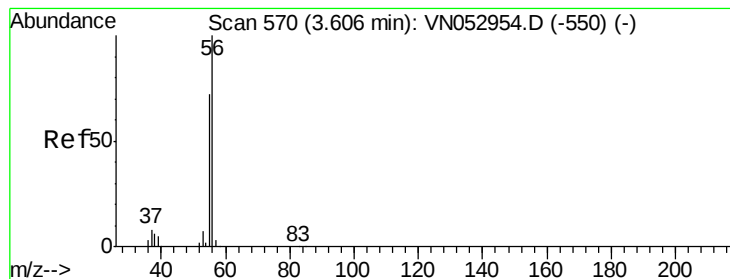


#12

1,1-Dichloroethene
Concen: 19.007 ug/l
RT: 3.74 min Scan# 613
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Tgt Ion: 96 Resp: 185635
Ion Ratio Lower Upper
96 100
61 155.5 125.6 188.4
98 63.3 50.6 75.8





#13

Acrolein

Concen: 88.818 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

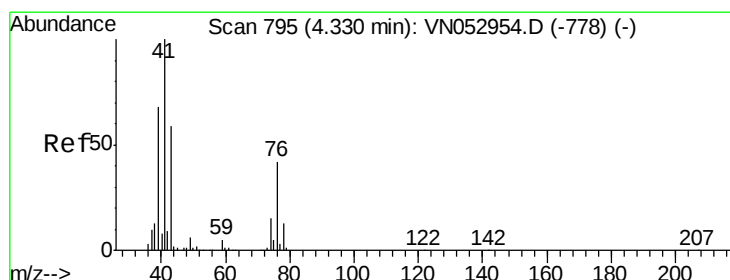
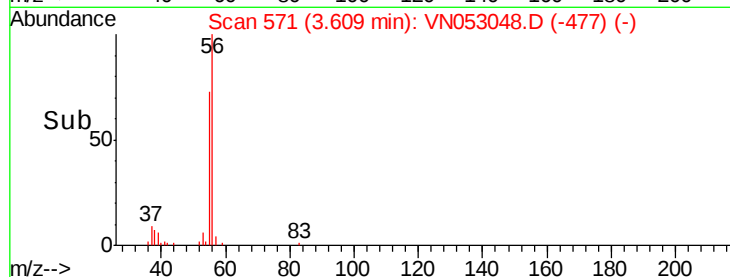
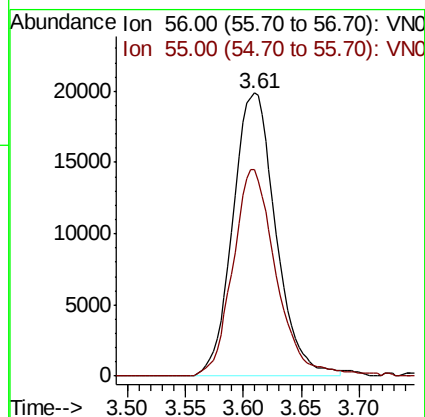
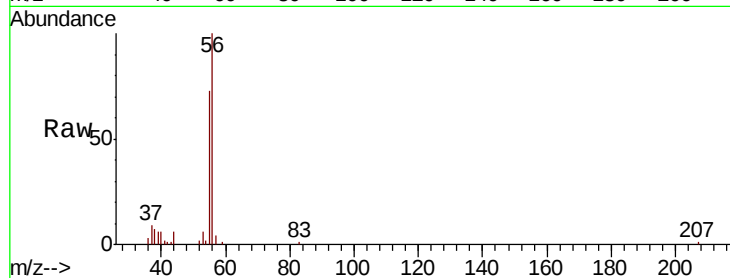
ClientSampled :

Tot Ion: 56 Resp: 51099

Ion Ratio Lower Upper

56 100

55 73.3 56.6 85.0



#14

Allyl chloride

Concen: 18.643 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

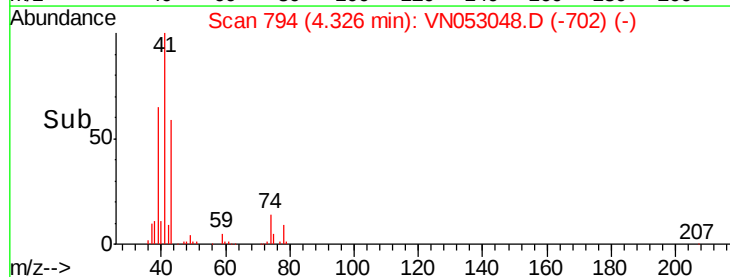
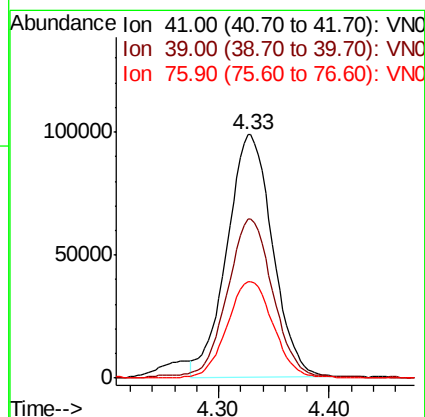
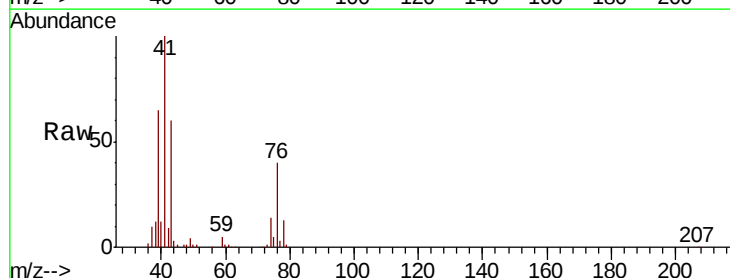
Tgt Ion: 41 Resp: 282044

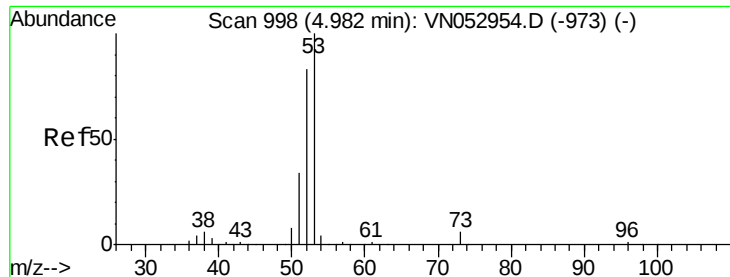
Ion Ratio Lower Upper

41 100

39 67.2 54.1 81.1

76 39.8 30.3 45.5





#15

Acrylonitrile

Concen: 95.761 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

ClientSampleId :

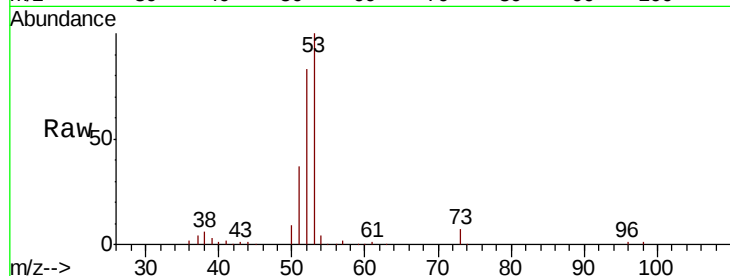
Tot Ion: 53 Resp: 337550

Ion Ratio Lower Upper

53 100

52 81.1 65.1 97.7

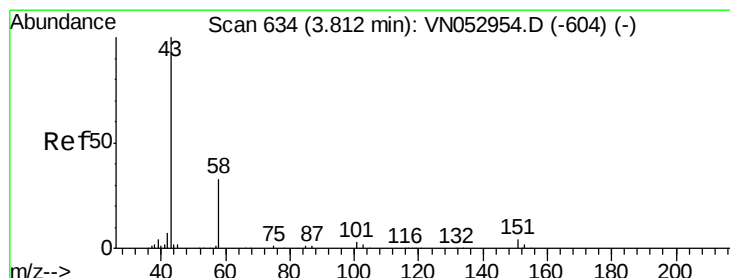
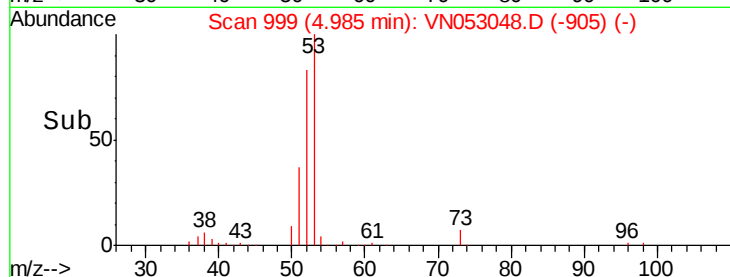
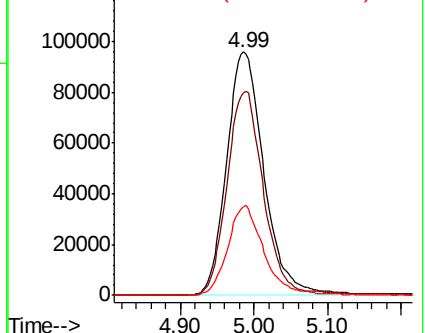
51 35.8 28.1 42.1



Abundance Ion 53.00 (52.70 to 53.70): VN052954.D (-973) (-)

Ion 52.00 (51.70 to 52.70): VN052954.D (-973) (-)

Ion 51.00 (50.70 to 51.70): VN052954.D (-973) (-)



#16

Acetone

Concen: 91.663 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053048.D

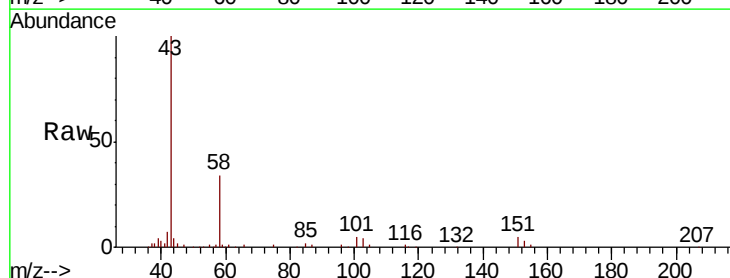
Acq: 20 Dec 2018 11:27

Tgt Ion: 43 Resp: 186889

Ion Ratio Lower Upper

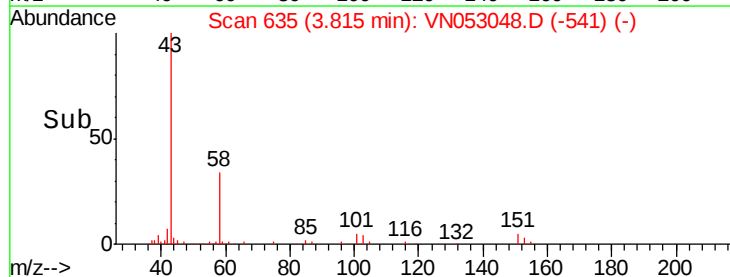
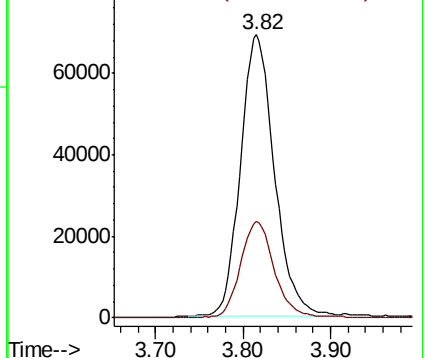
43 100

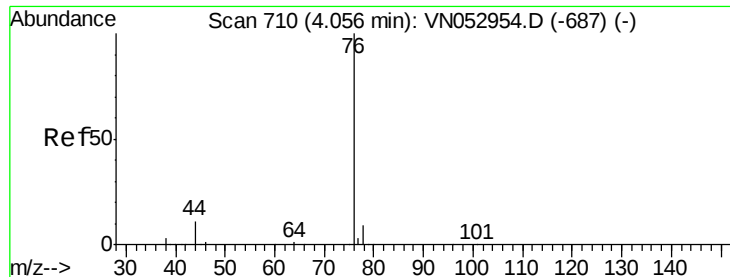
58 34.3 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-604) (-)

Ion 58.00 (57.70 to 58.70): VN052954.D (-604) (-)

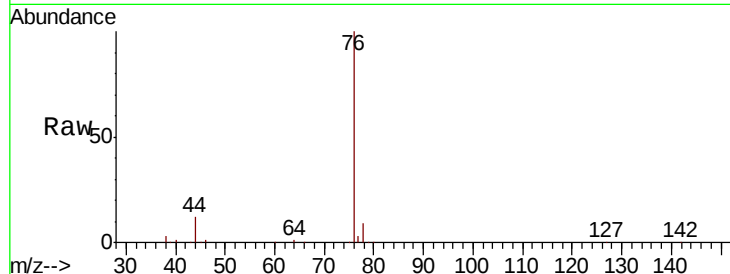




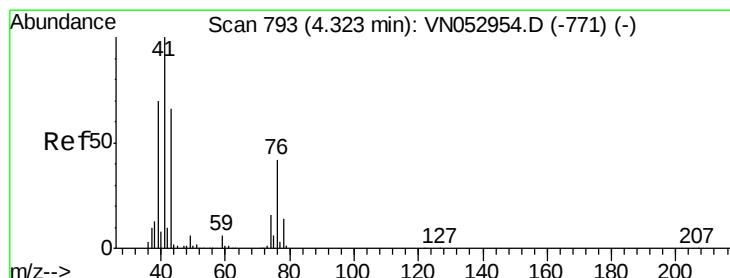
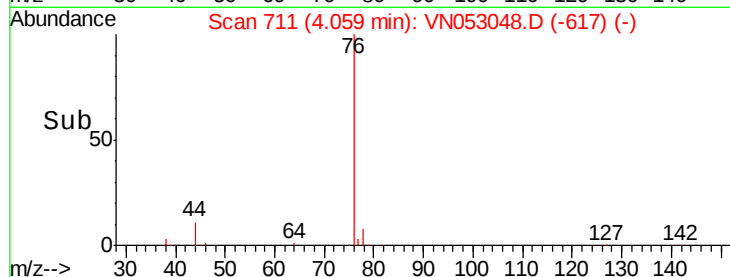
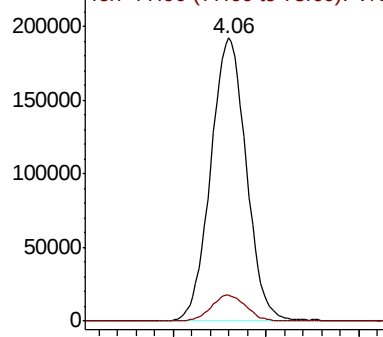
#17
Carbon Disulfide
Concen: 16.061 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 76 Resp: 511564
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7

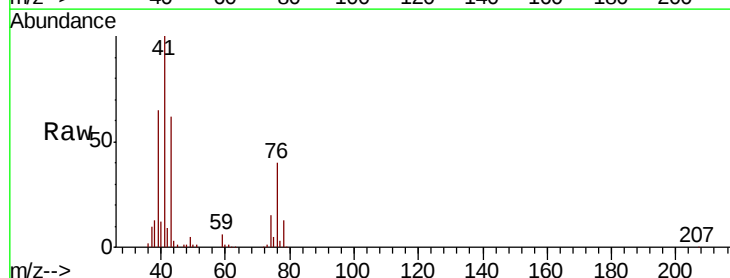


Abundance Ion 75.90 (75.60 to 76.60): VN0
Ion 77.90 (77.60 to 78.60): VN0

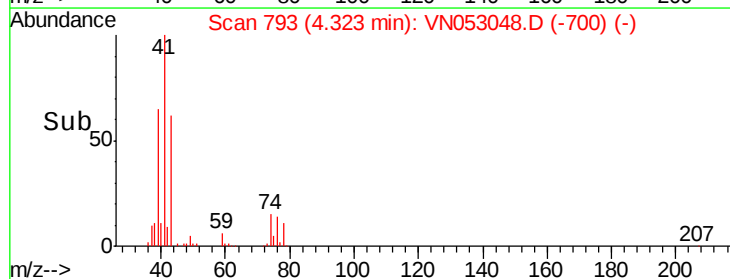
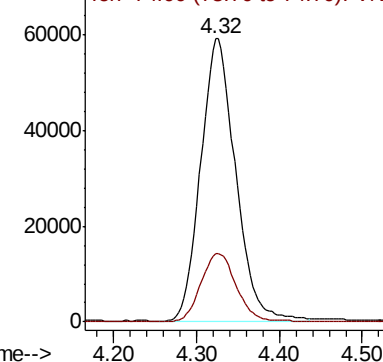


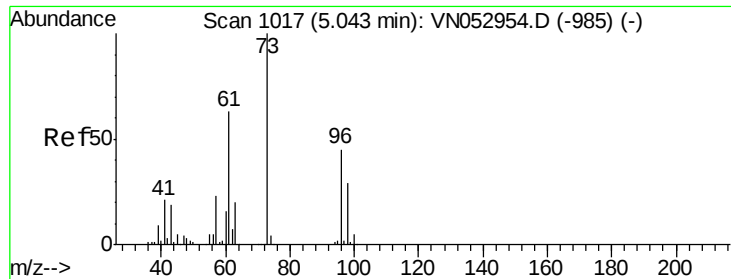
#18
Methyl Acetate
Concen: 19.323 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Tgt Ion: 43 Resp: 173067
Ion Ratio Lower Upper
43 100
74 24.5 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 74.00 (73.70 to 74.70): VN0

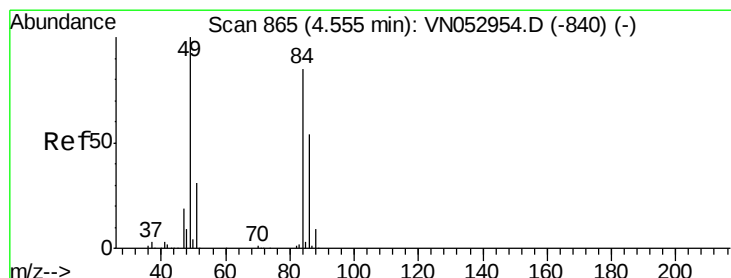
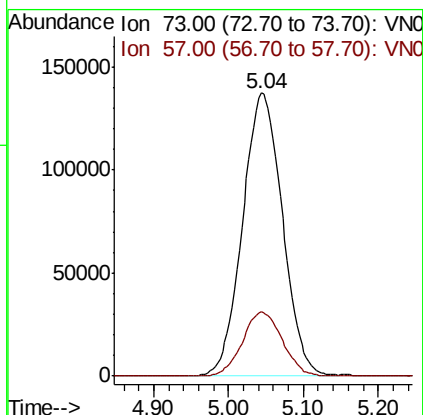
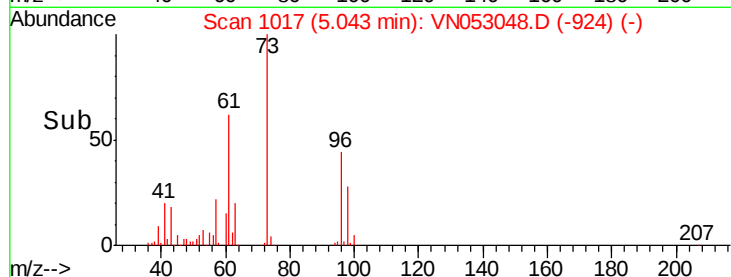
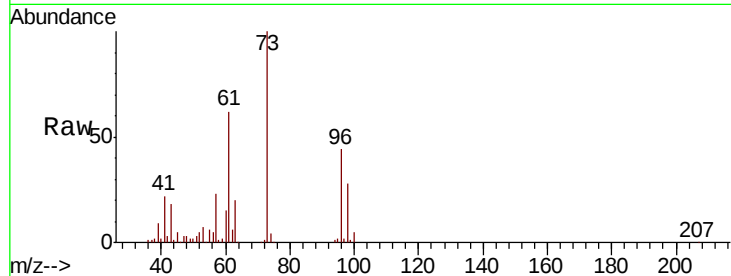




#19
Methyl tert-butyl Ether
Concen: 19.490 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

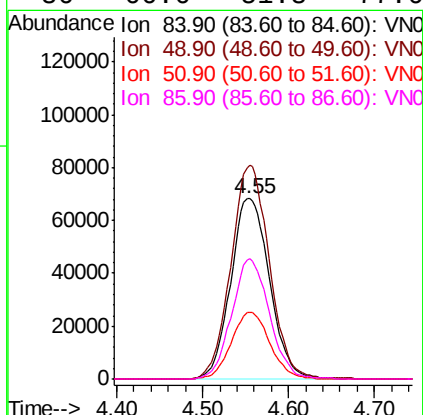
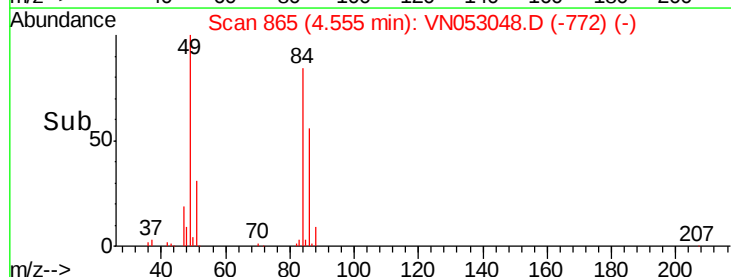
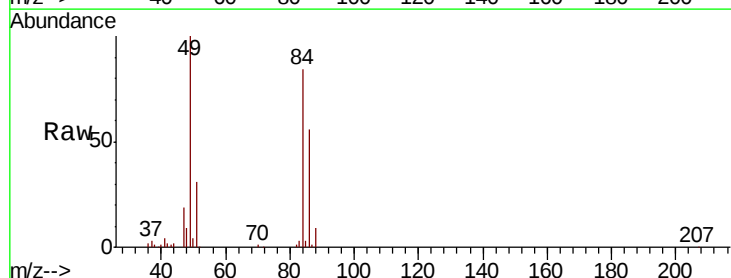
Instrument :
MSVOA_N
ClientSampleId :

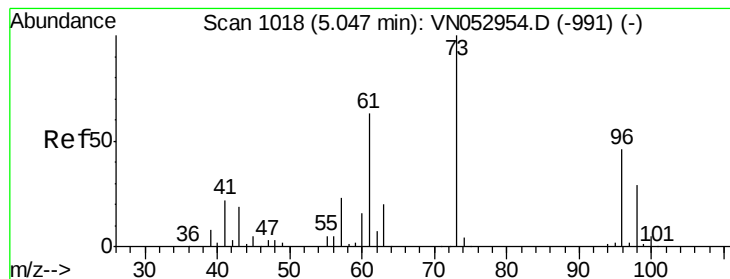
Tot Ion: 73 Resp: 509416
Ion Ratio Lower Upper
73 100
57 22.7 18.4 27.6



#20
Methylene Chloride
Concen: 19.294 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Tgt Ion: 84 Resp: 214584
Ion Ratio Lower Upper
84 100
49 118.3 96.8 145.2
51 37.3 29.9 44.9
86 66.6 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 18.842 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.00 min

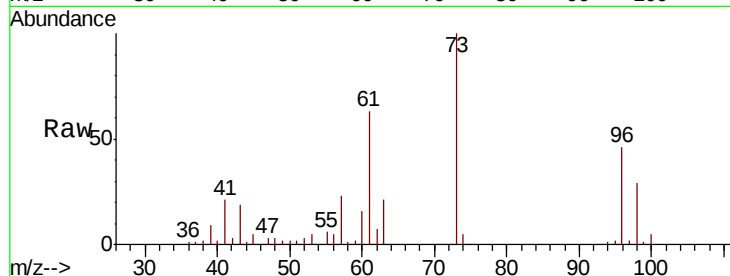
Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 96 Resp: 197720

Ion	Ratio	Lower	Upper
96	100		
61	137.7	110.8	166.2
98	63.5	51.4	77.2

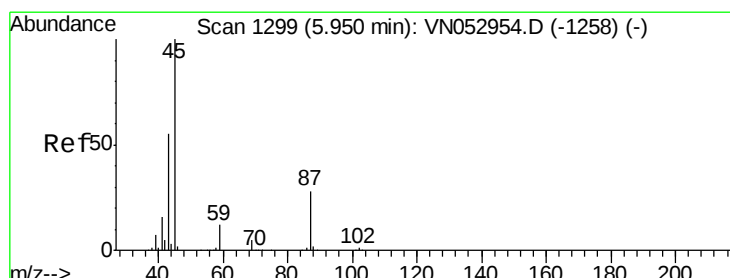
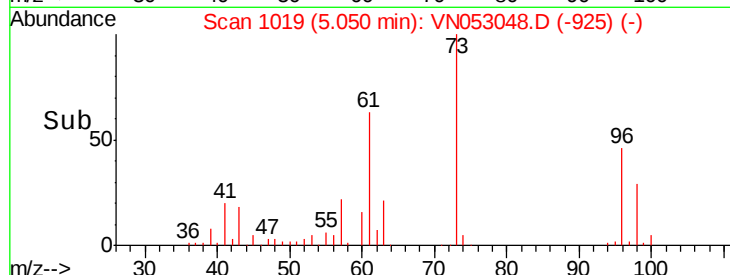
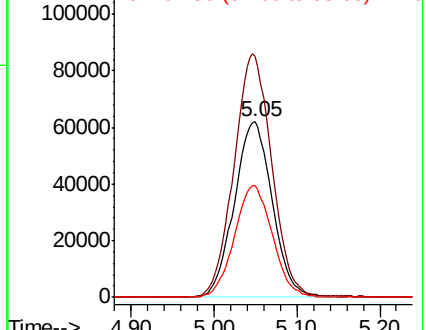


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22

Diisopropyl ether

Concen: 20.127 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Tgt Ion: 45 Resp: 649938

Ion	Ratio	Lower	Upper
45	100		
43	58.9	45.5	68.3
87	29.1	22.0	33.0
59	12.1	9.4	14.0

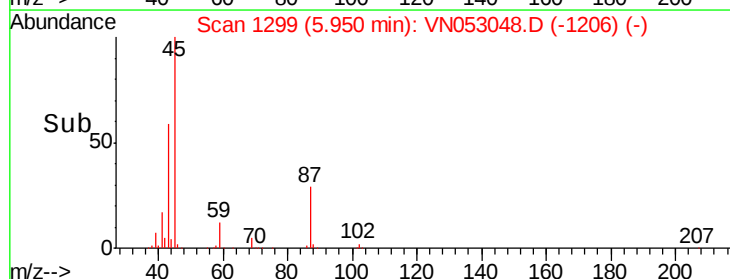
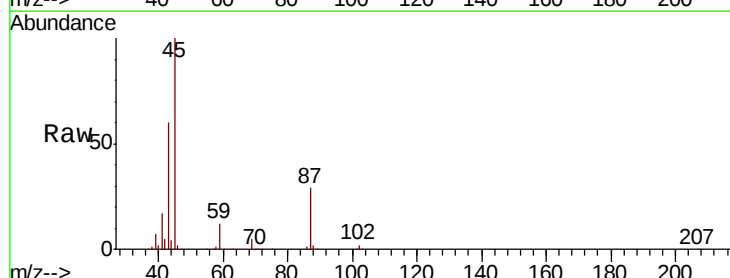
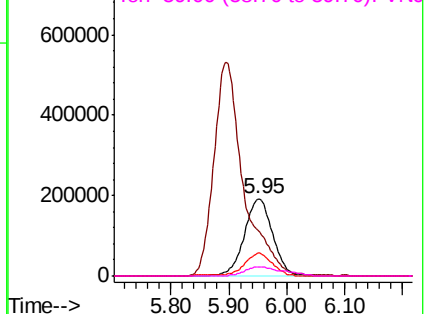
Abundance

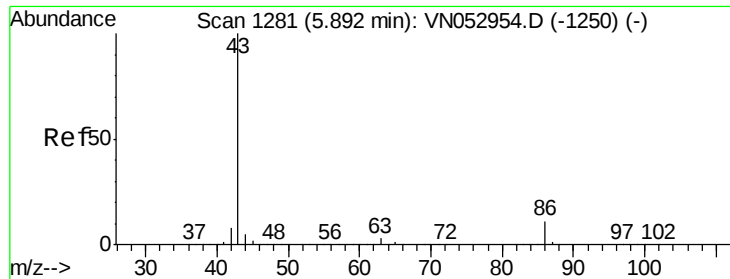
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





#23

Vinyl Acetate

Concen: 101.810 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

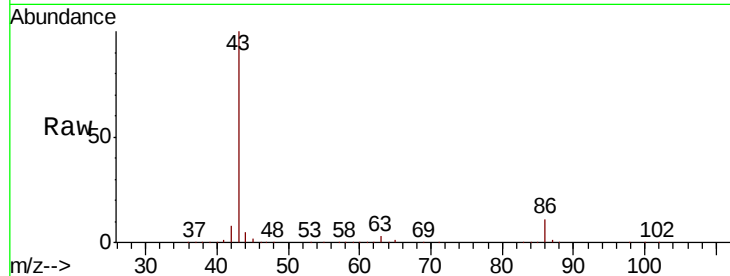
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1890492

Ion Ratio Lower Upper

43 100

86 10.9 8.1 12.1



Abundance Ion 43.00 (42.70 to 43.70): VN053048.D (-1188) (-)

Ion 86.00 (85.70 to 86.70): VN053048.D (-1188) (-)

5.90

600000

500000

400000

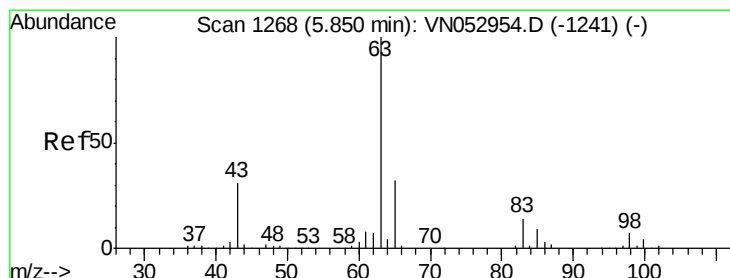
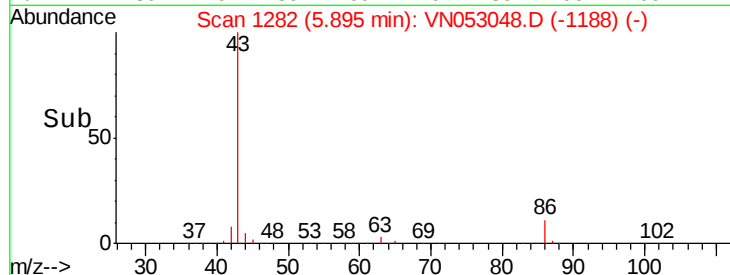
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 19.605 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

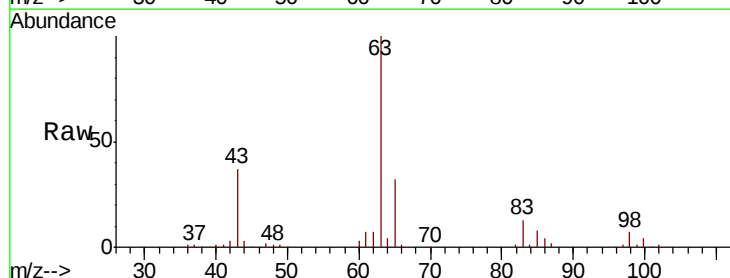
Tgt Ion: 63 Resp: 376192

Ion Ratio Lower Upper

63 100

98 6.8 3.1 9.4

100 4.3 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VN053048.D (-1175) (-)

Ion 97.90 (97.60 to 98.60): VN053048.D (-1175) (-)

Ion 99.90 (99.60 to 100.60): VN053048.D (-1175) (-)

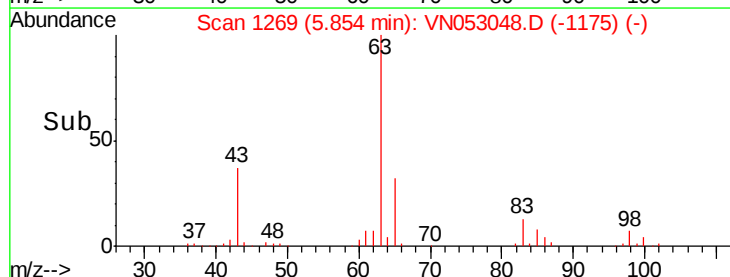
150000

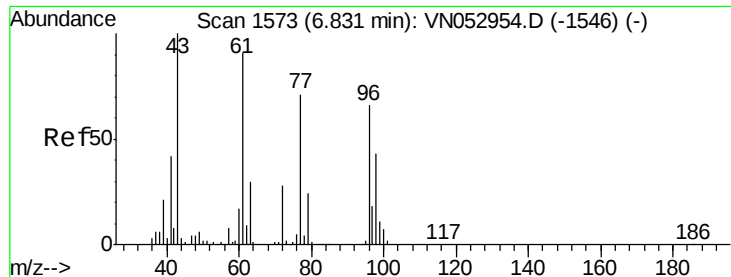
100000

50000

0

Time-->

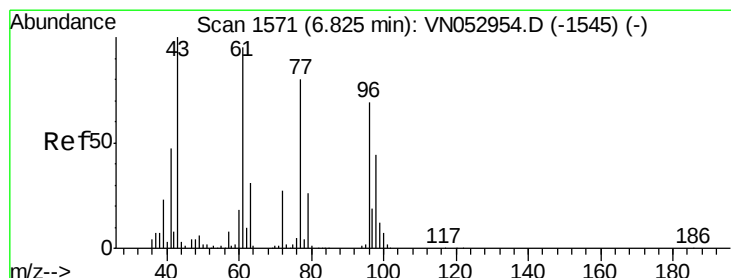
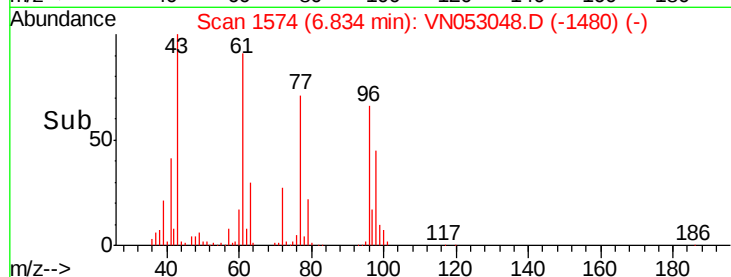
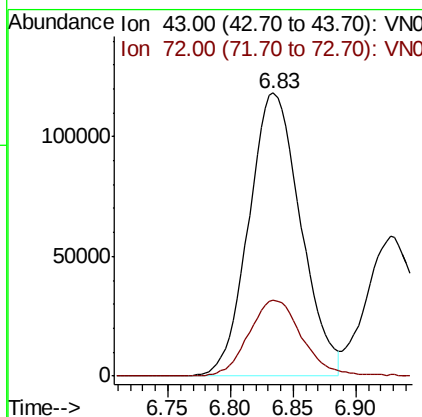
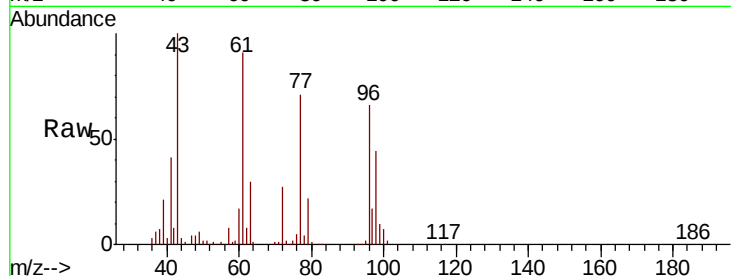




#25
2-Butanone
Concen: 99.040 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

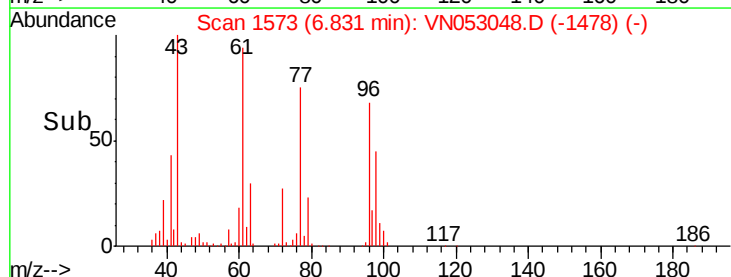
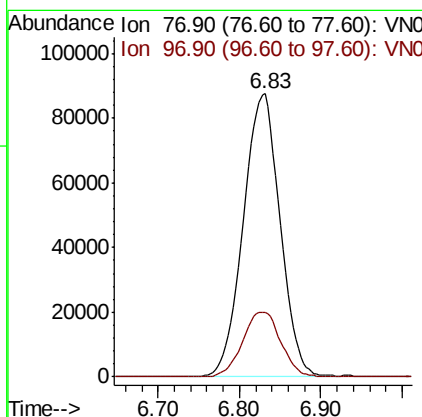
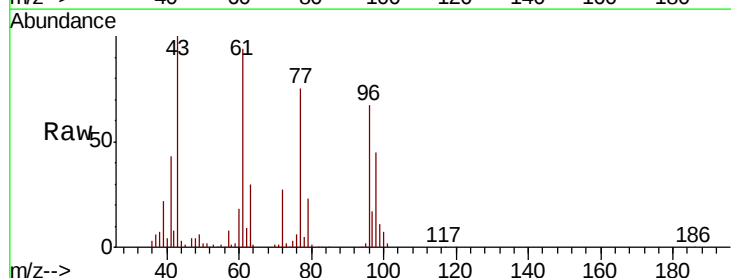
Instrument :
MSVOA_N
ClientSampled :

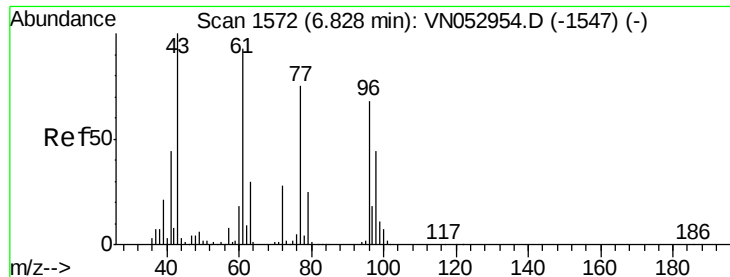
Tot Ion: 43 Resp: 338890
Ion Ratio Lower Upper
43 100
72 26.7 21.0 31.6



#26
2,2-Dichloropropane
Concen: 18.674 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Tgt Ion: 77 Resp: 273534
Ion Ratio Lower Upper
77 100
97 23.7 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 19.687 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :
MSVOA_N
ClientSampled :

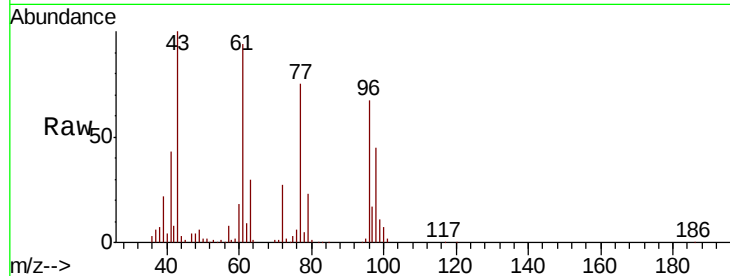
Tot Ion: 96 Resp: 233880

Ion Ratio Lower Upper

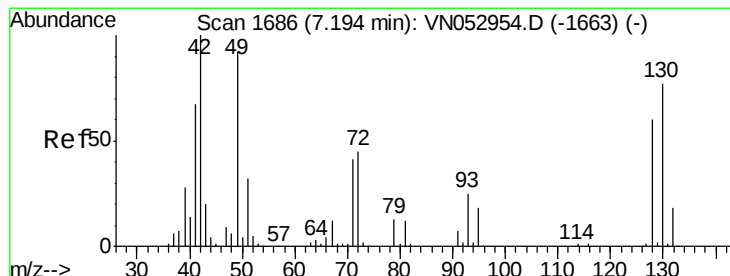
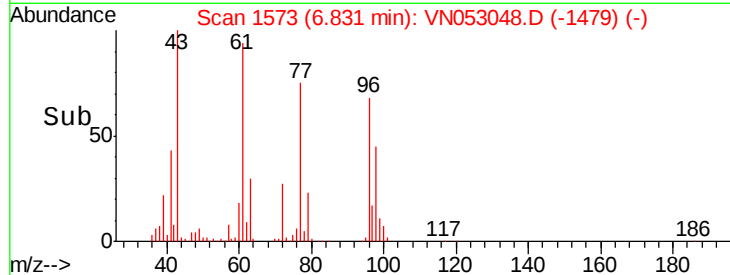
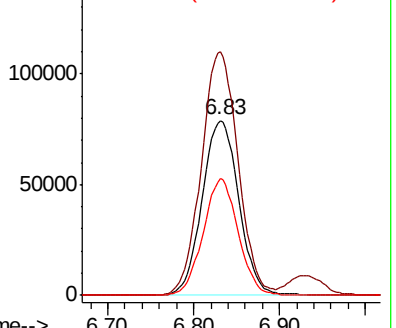
96 100

61 139.4 0.0 284.2

98 63.7 0.0 129.2



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 19.658 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

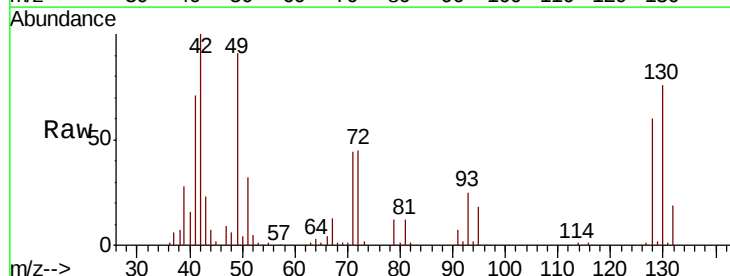
Tgt Ion: 49 Resp: 163451

Ion Ratio Lower Upper

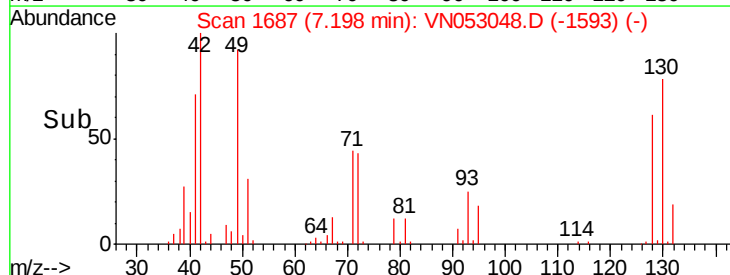
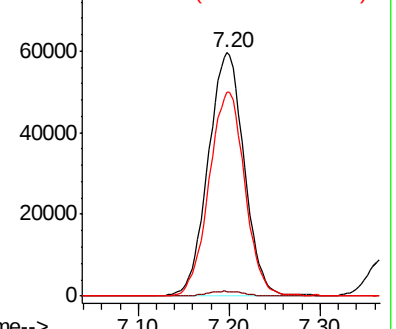
49 100

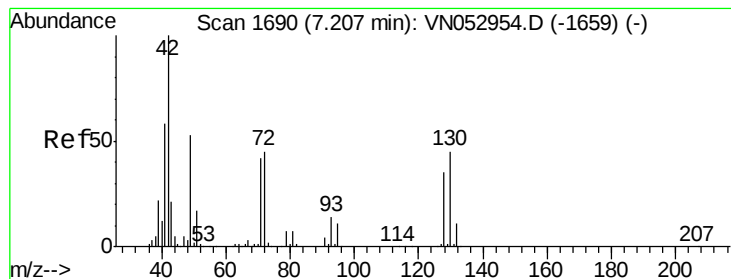
129 2.0 0.0 4.0

130 83.4 63.3 94.9



Abundance Ion 48.90 (48.60 to 49.60): VN0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 97.578 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :
MSVOA_N
ClientSampled :

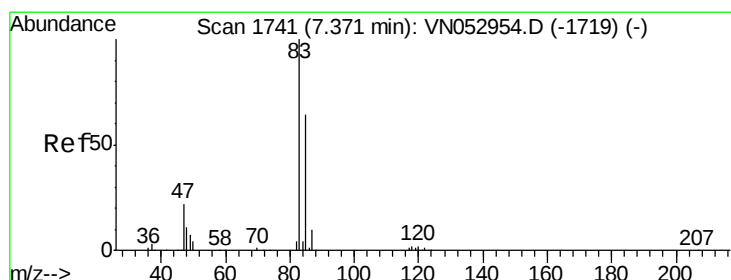
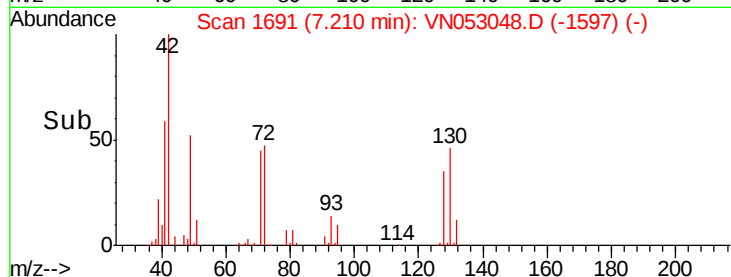
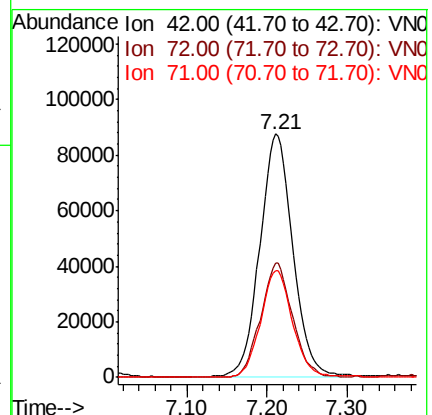
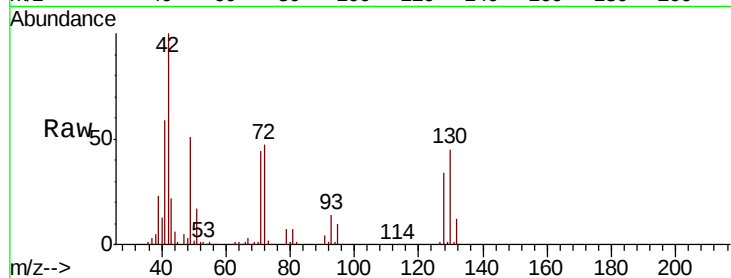
Tot Ion: 42 Resp: 249369

Ion Ratio Lower Upper

42 100

72 45.0 34.7 52.1

71 42.1 32.3 48.5



#30

Chloroform

Concen: 19.471 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN053048.D

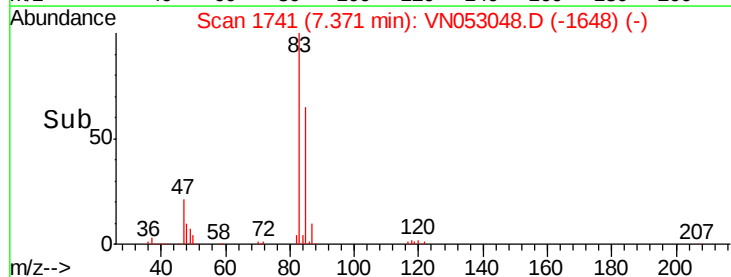
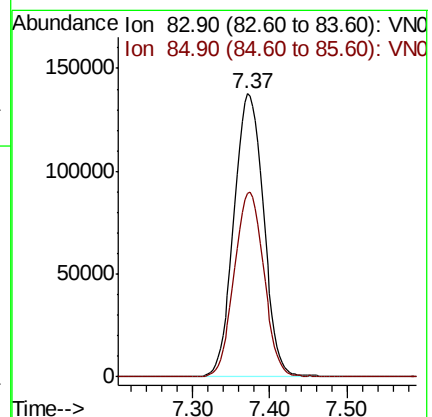
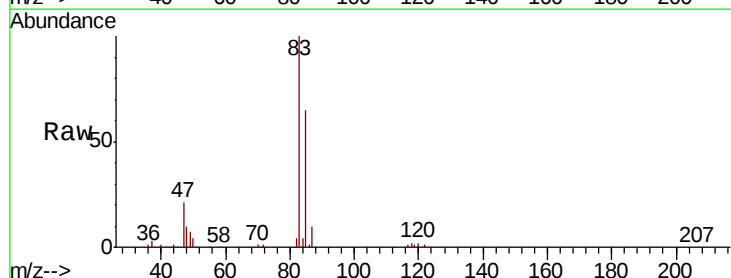
Acq: 20 Dec 2018 11:27

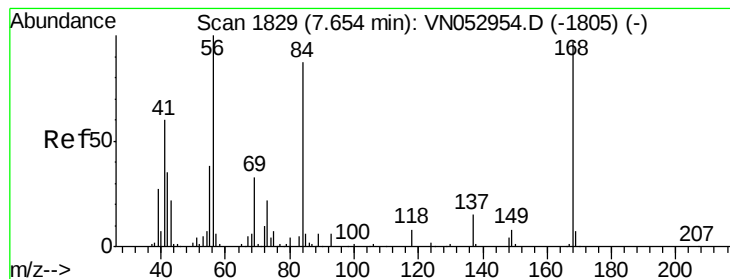
Tgt Ion: 83 Resp: 367025

Ion Ratio Lower Upper

83 100

85 65.0 52.1 78.1





#31

Cyclohexane

Concen: 19.535 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

ClientSampleId :

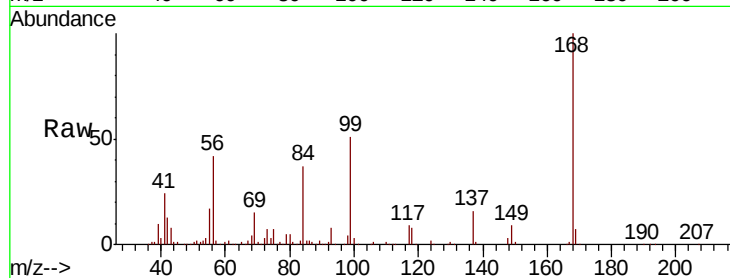
Tot Ion: 56 Resp: 363099

Ion Ratio Lower Upper

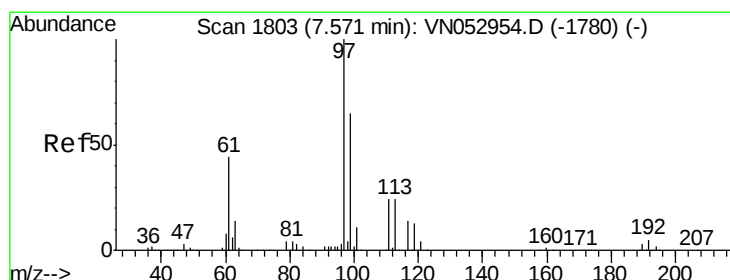
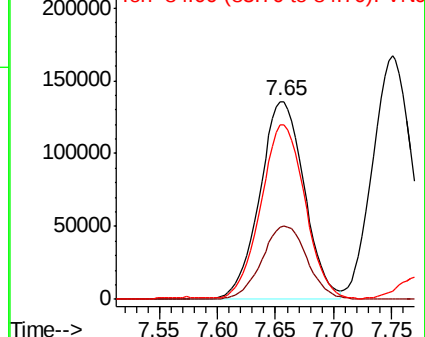
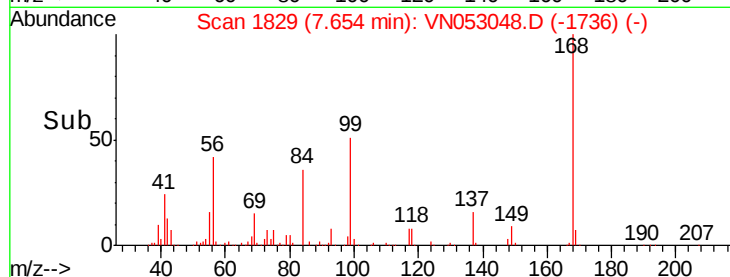
56 100

69 36.2 26.6 39.8

84 86.9 68.4 102.6



Abundance Ion 56.00 (55.70 to 56.70): VN053048.D (-1736) (-)



#32

1,1,1-Trichloroethane

Concen: 18.833 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

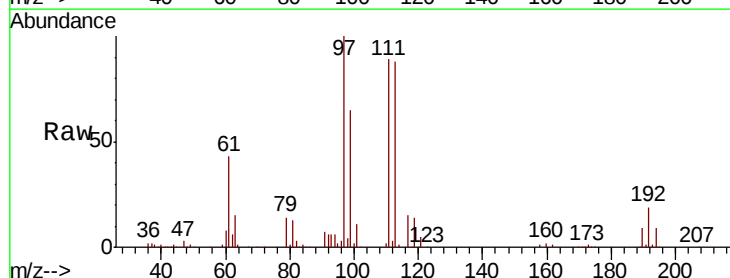
Tgt Ion: 97 Resp: 302410

Ion Ratio Lower Upper

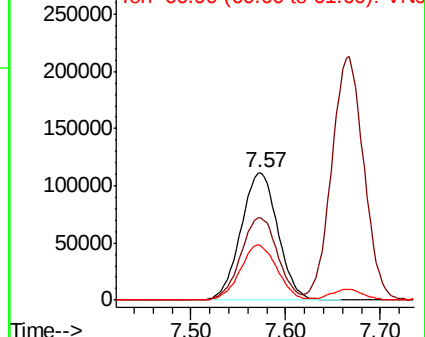
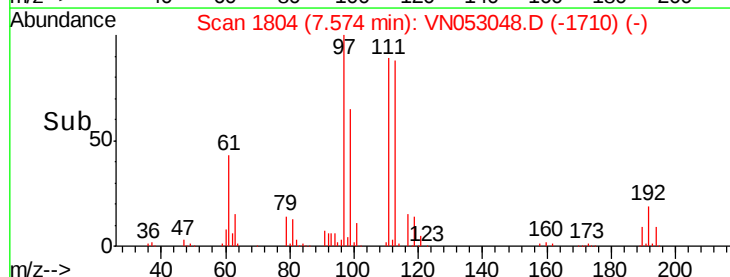
97 100

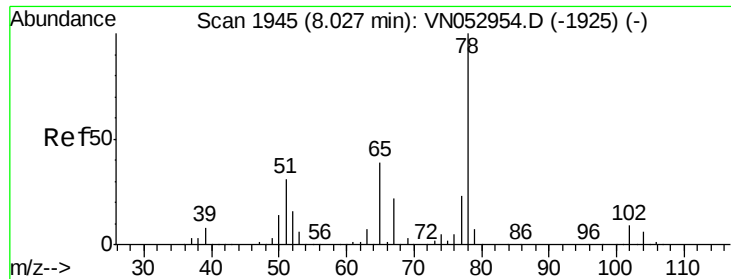
99 64.8 51.1 76.7

61 43.5 35.0 52.6



Abundance Ion 96.90 (96.60 to 97.60): VN053048.D (-1710) (-)

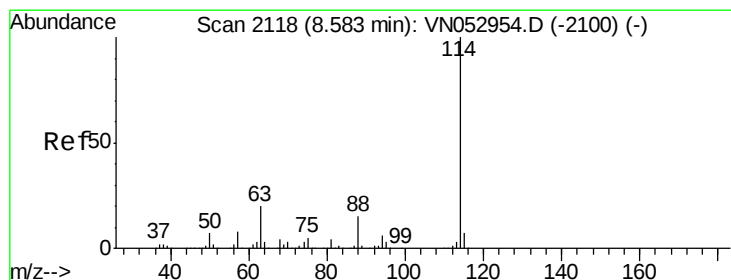
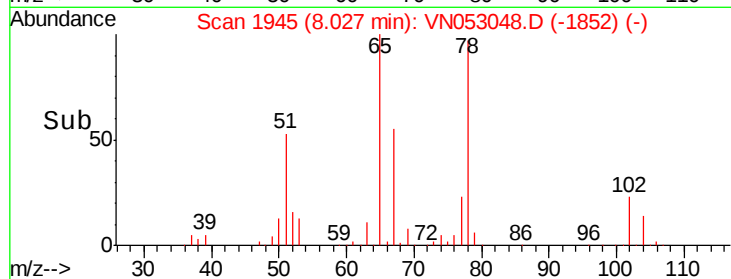
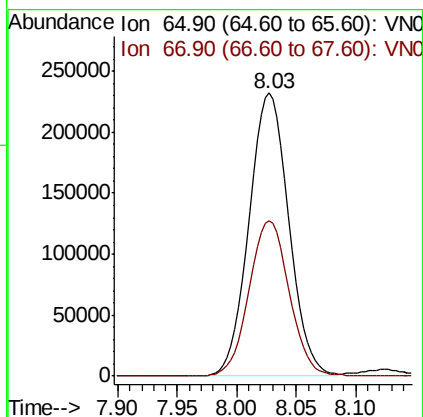
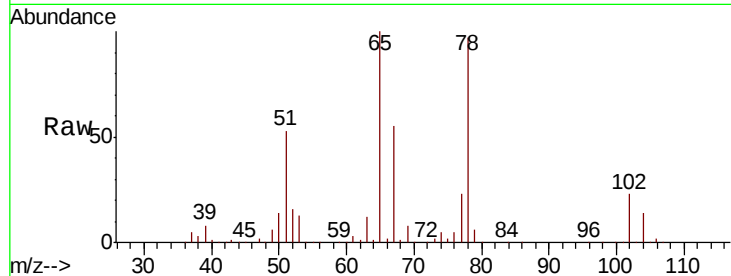




#33
 1,2-Dichloroethane-d4
 Concen: 18.833 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN053048.D
 Acq: 20 Dec 2018 11:27

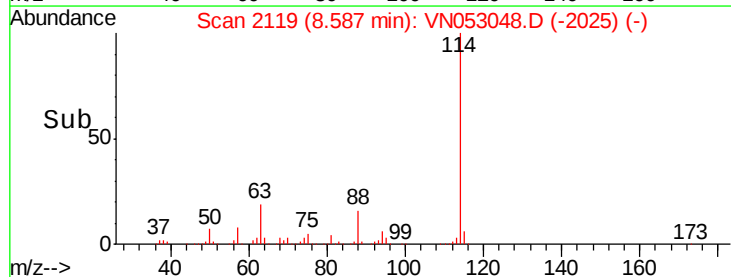
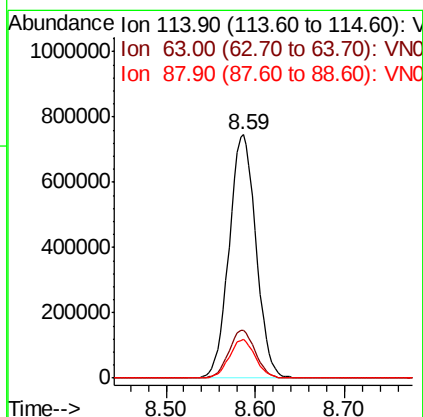
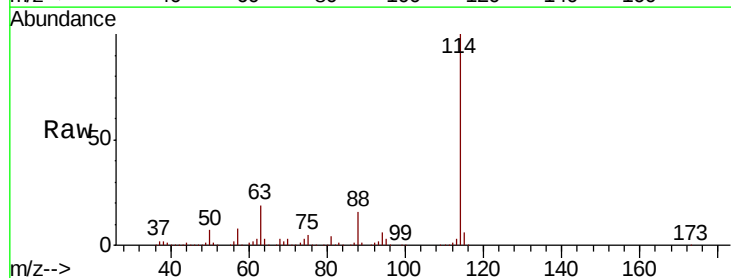
Instrument :
 MSVOA_N
 ClientSampled :

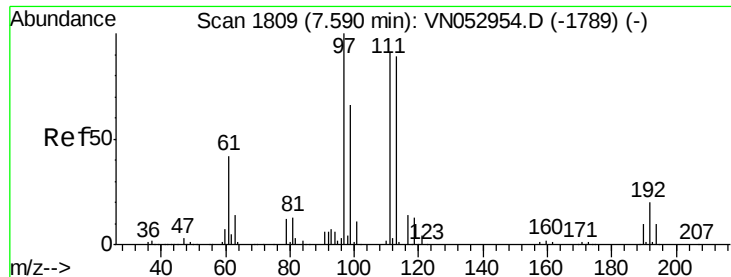
Tot Ion: 65 Resp: 537785
 Ion Ratio Lower Upper
 65 100
 67 55.5 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053048.D
 Acq: 20 Dec 2018 11:27

Tgt Ion: 114 Resp: 1553316
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.8
 88 15.7 0.0 31.0

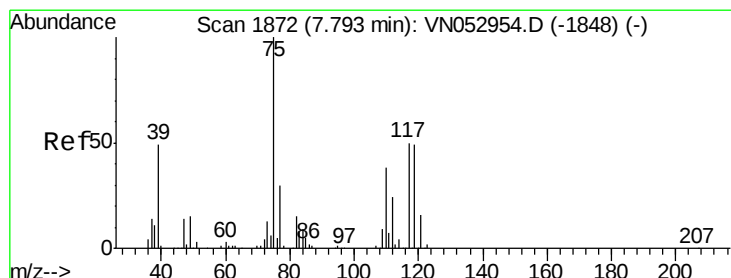
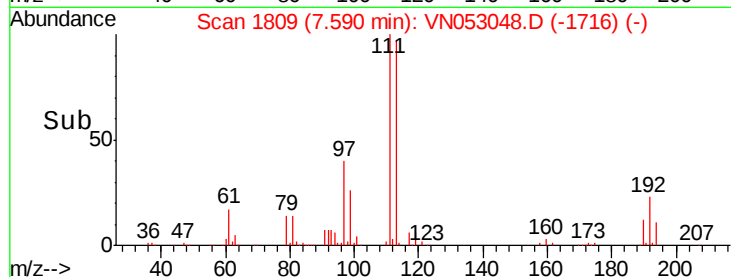
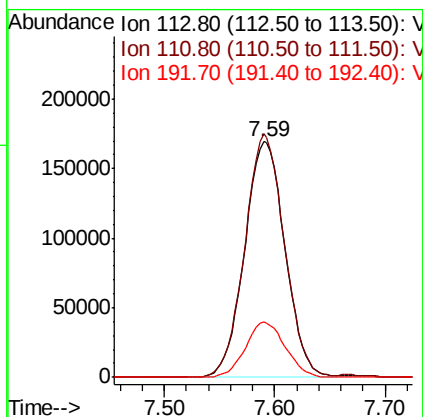
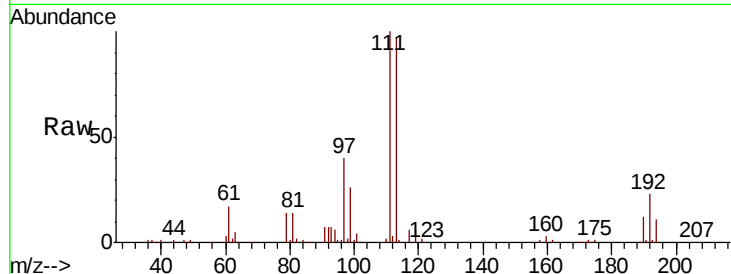




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN053048.D
 Acq: 20 Dec 2018 11:27

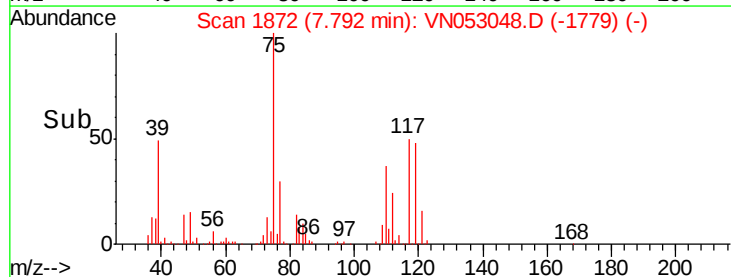
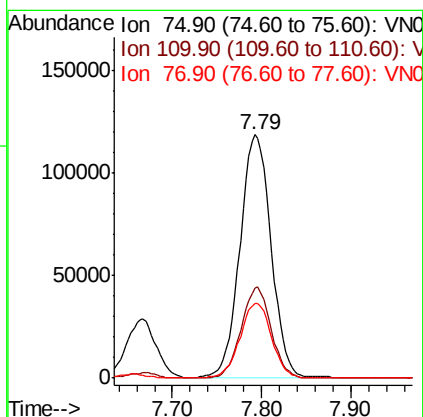
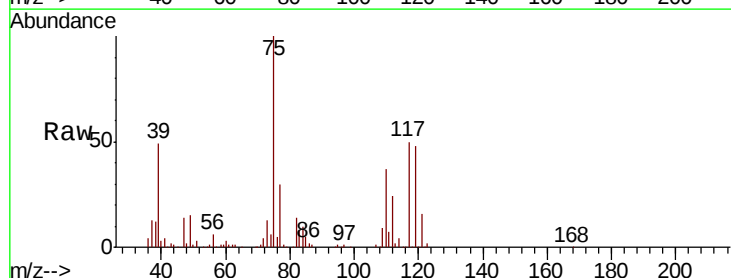
Instrument :
 MSVOA_N
 ClientSampleId :

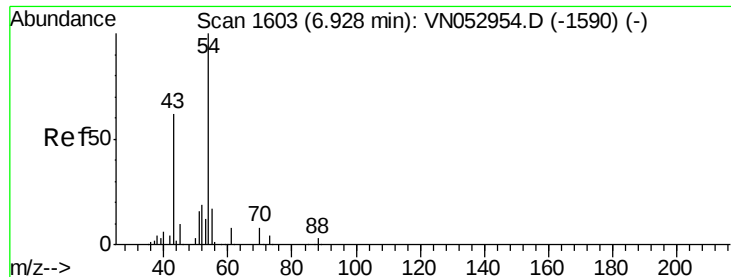
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	83.0	124.4
192	23.0	17.5	26.3



#36
 1,1-Dichloropropene
 Concen: 19.266 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN053048.D
 Acq: 20 Dec 2018 11:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.0	18.2	54.6
77	31.5	24.9	37.3

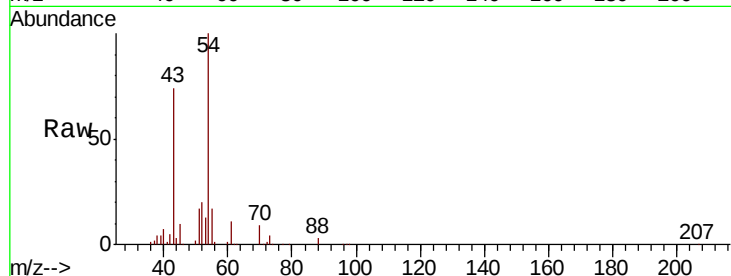




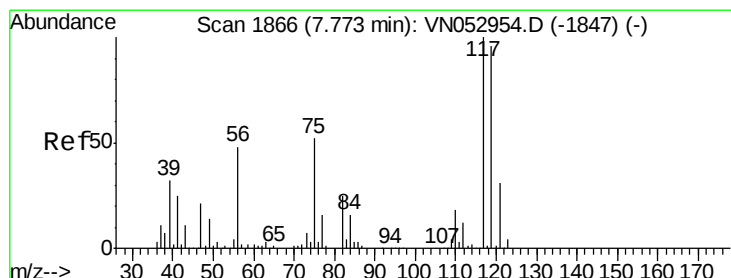
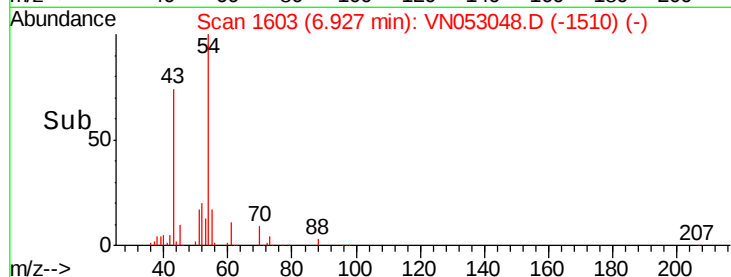
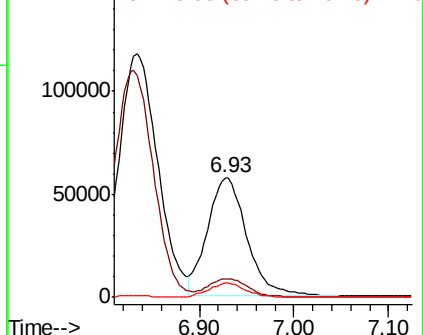
#37
Ethyl Acetate
Concen: 19.971 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 166218
Ion Ratio Lower Upper
43 100
61 15.0 11.8 17.6
70 11.4 8.4 12.6

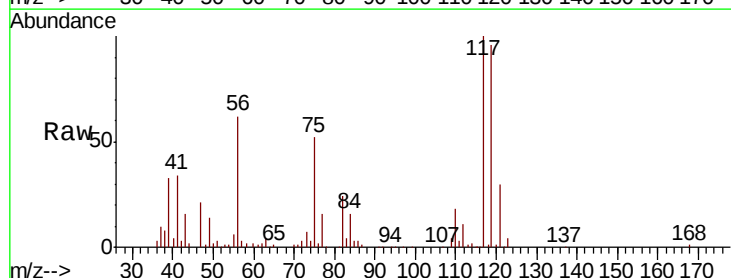


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

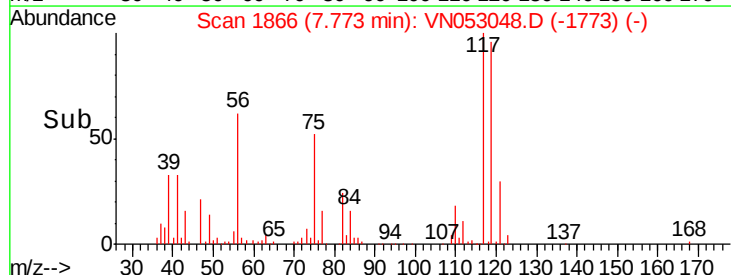
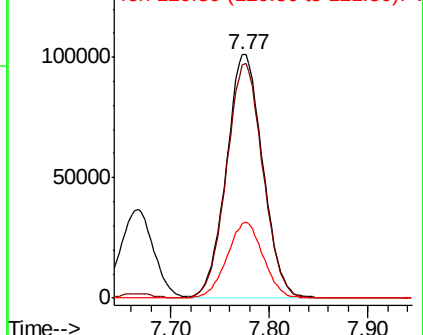


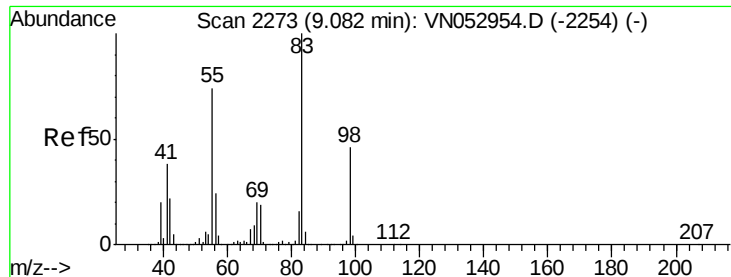
#38
Carbon Tetrachloride
Concen: 18.965 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Tgt Ion: 117 Resp: 259174
Ion Ratio Lower Upper
117 100
119 95.7 77.1 115.7
121 30.5 24.9 37.3



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

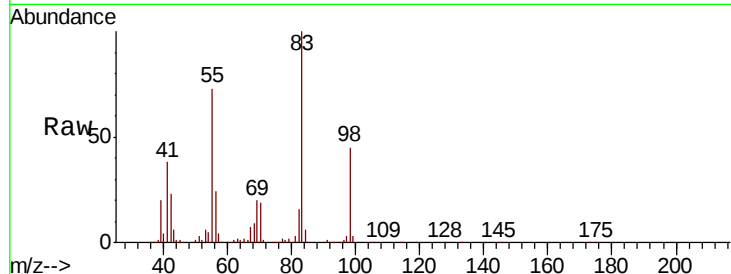




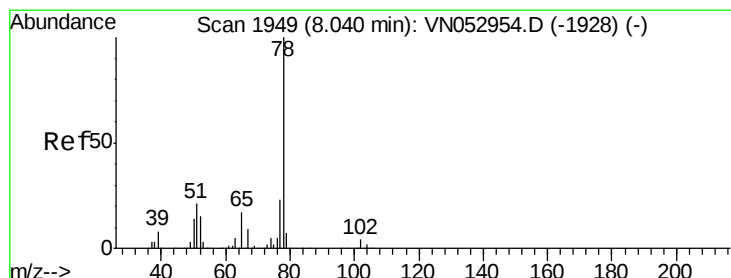
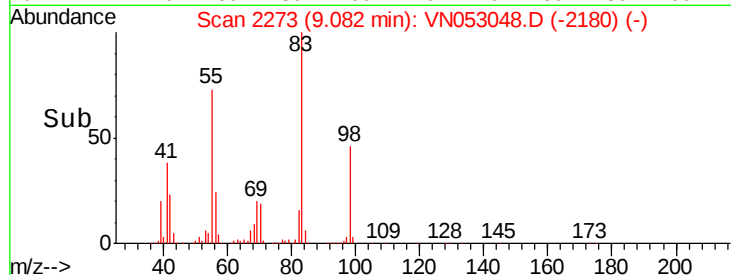
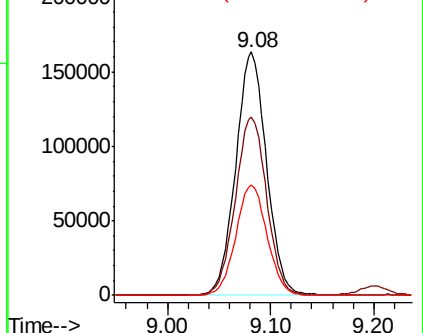
#39
Methvlcvclohexane
Concen: 18.680 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 83 Resp: 338322
Ion Ratio Lower Upper
83 100
55 73.2 61.3 91.9
98 45.5 37.0 55.4

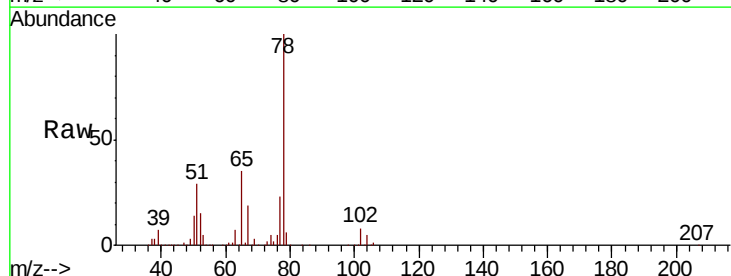


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

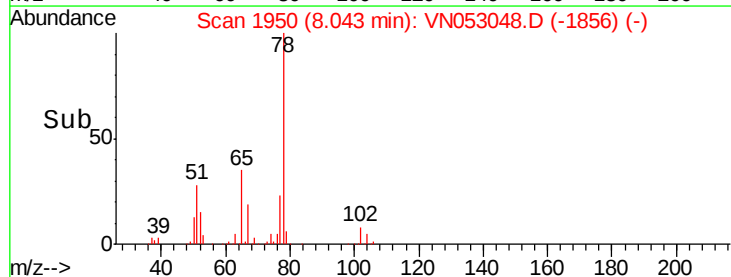
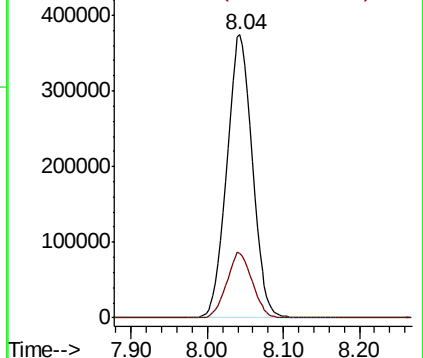


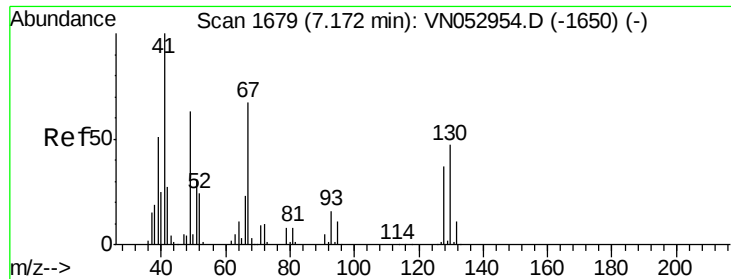
#40
Benzene
Concen: 19.737 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Tgt Ion: 78 Resp: 875277
Ion Ratio Lower Upper
78 100
77 23.0 18.5 27.7



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0

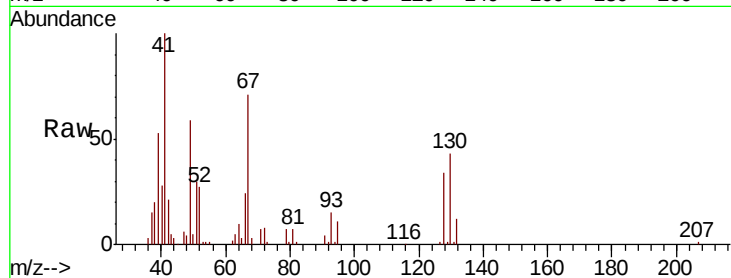




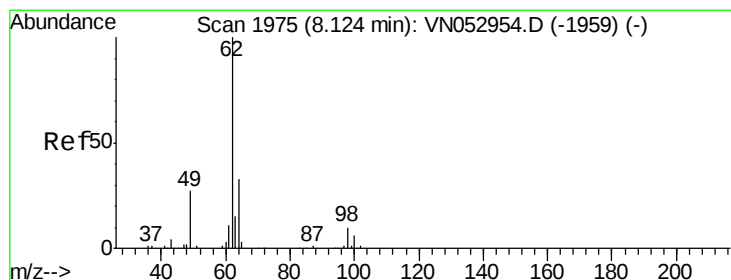
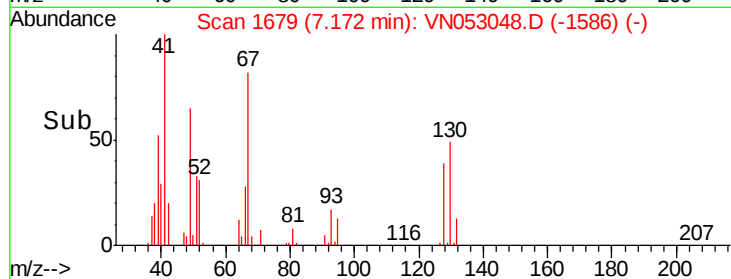
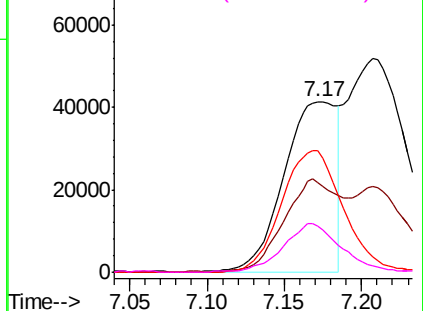
#41
Methacrylonitrile
Concen: 20.540 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	41	Resp:	98774
Ion	Ratio	Lower	Upper
41	100		
39	58.6	48.0	72.0
67	82.9	70.3	105.5
52	31.6	26.9	40.3

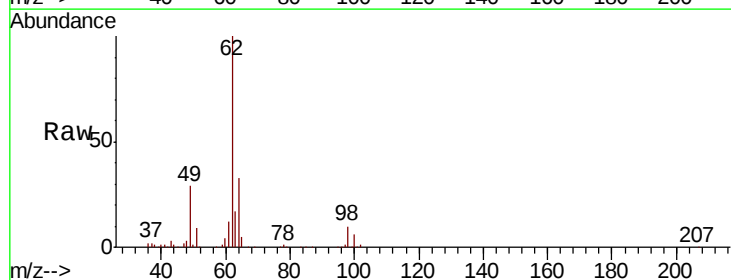


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

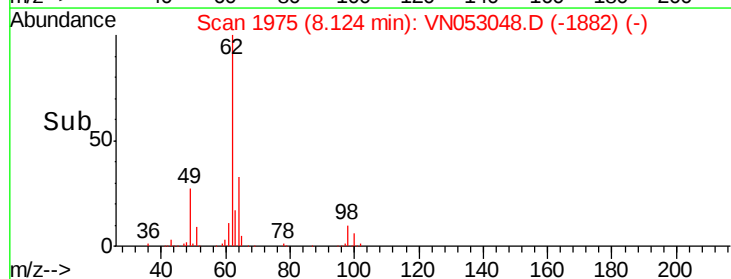
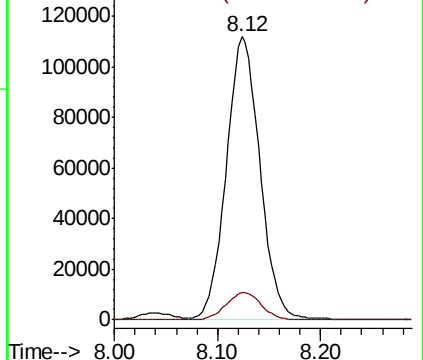


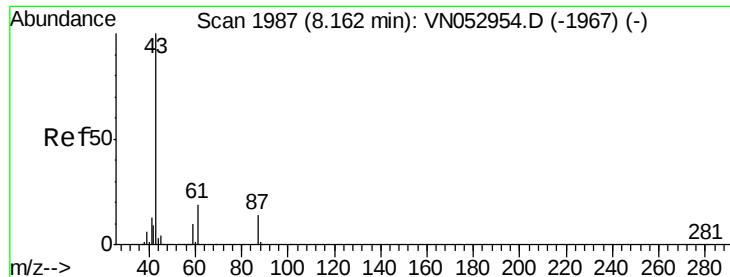
#42
1,2-Dichloroethane
Concen: 19.278 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Tgt Ion:	62	Resp:	252554
Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	19.0



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 19.252 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

ClientSampleId :

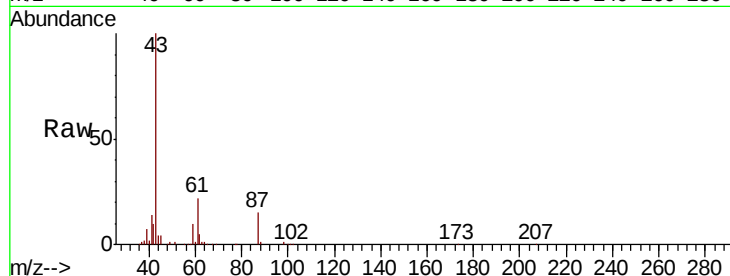
Tot Ion: 43 Resp: 320423

Ion Ratio Lower Upper

43 100

61 28.8 22.9 34.3

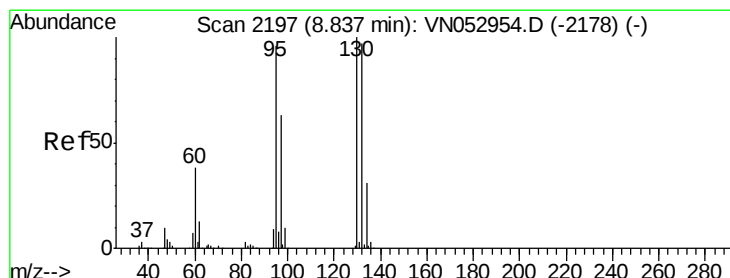
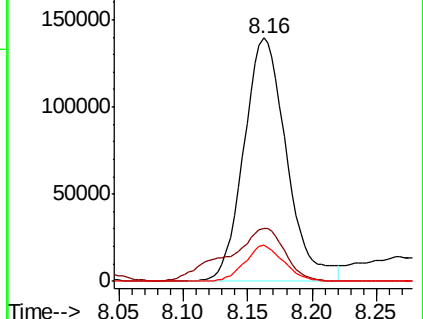
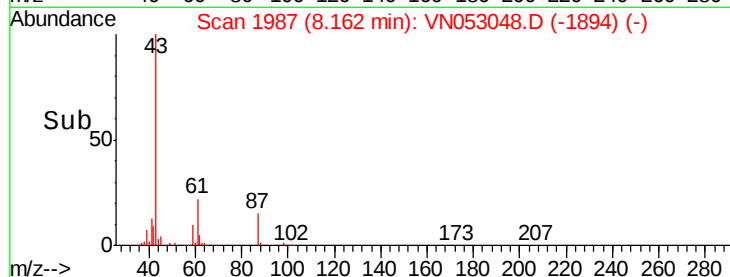
87 13.4 10.6 15.8



Abundance Ion 43.00 (42.70 to 43.70): VN053048.D (-1894) (-)

Ion 61.00 (60.70 to 61.70): VN053048.D (-1894) (-)

Ion 87.00 (86.70 to 87.70): VN053048.D (-1894) (-)



#44

Trichloroethene

Concen: 19.045 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VN053048.D

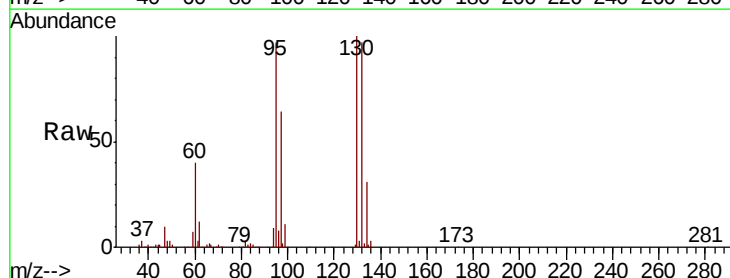
Acq: 20 Dec 2018 11:27

Tgt Ion:130 Resp: 244289

Ion Ratio Lower Upper

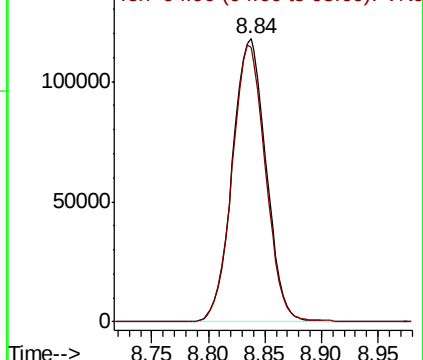
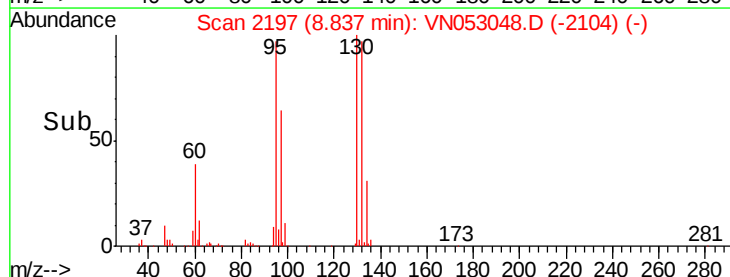
130 100

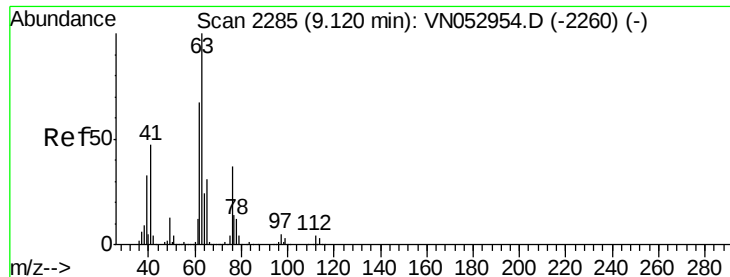
95 96.7 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): VN053048.D (-2104) (-)

Ion 94.90 (94.60 to 95.60): VN053048.D (-2104) (-)

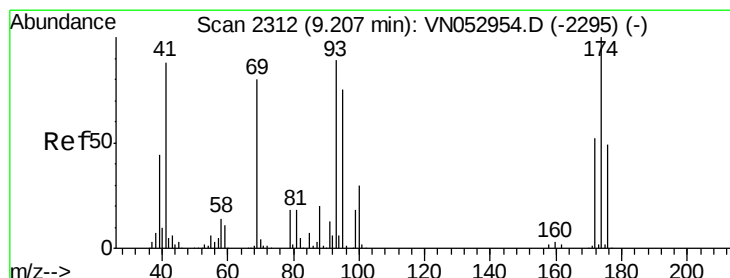
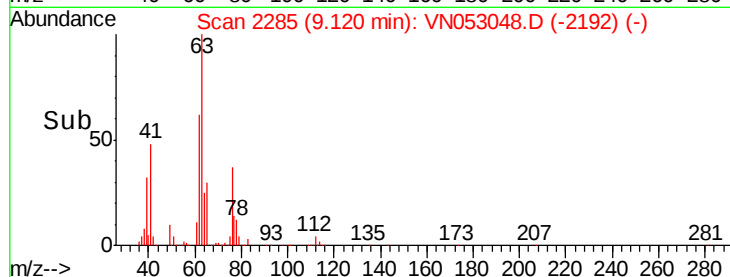
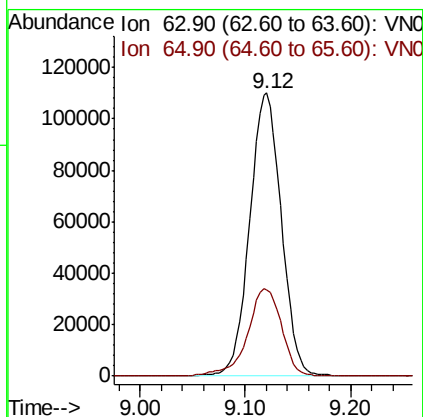
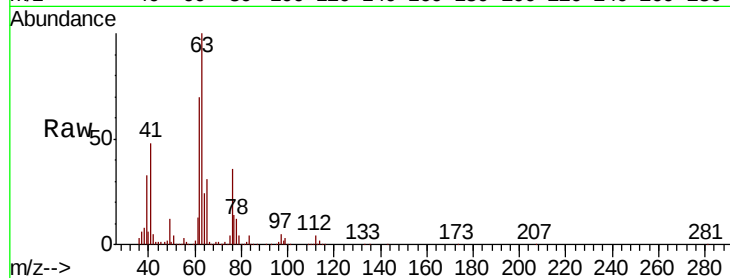




#45
 1,2-Dichloropropane
 Concen: 19.974 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN053048.D
 Acq: 20 Dec 2018 11:27

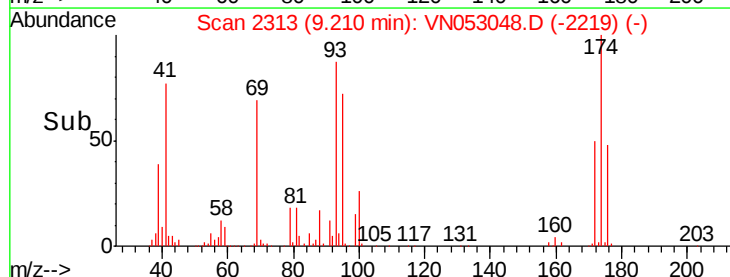
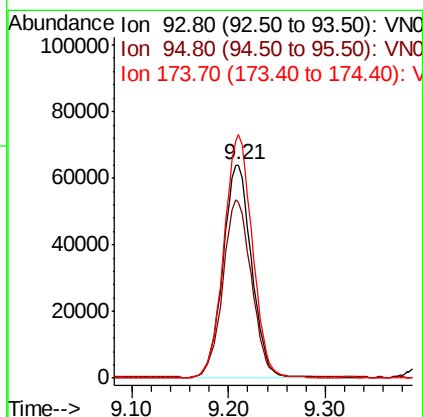
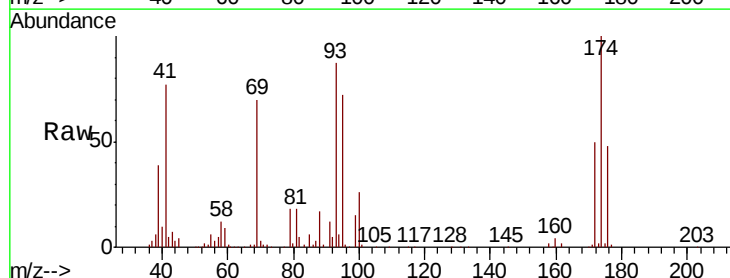
Instrument :
 MSVOA_N
 ClientSampleId :

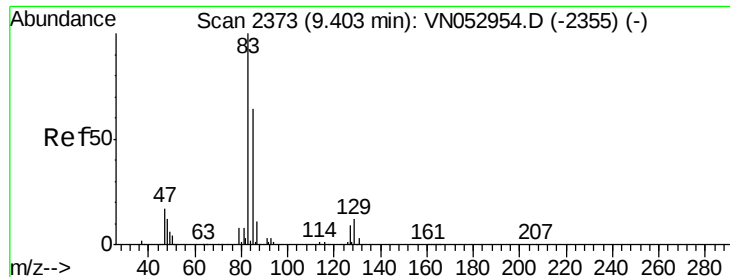
Tot Ion: 63 Resp: 230725
 Ion Ratio Lower Upper
 63 100
 65 30.7 24.6 37.0



#46
 Dibromomethane
 Concen: 19.601 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN053048.D
 Acq: 20 Dec 2018 11:27

Tgt Ion: 93 Resp: 131897
 Ion Ratio Lower Upper
 93 100
 95 82.4 67.8 101.6
 174 113.5 89.0 133.4





#47

Bromodichloromethane

Concen: 19.250 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :
MSVOA_N
ClientSampleId :

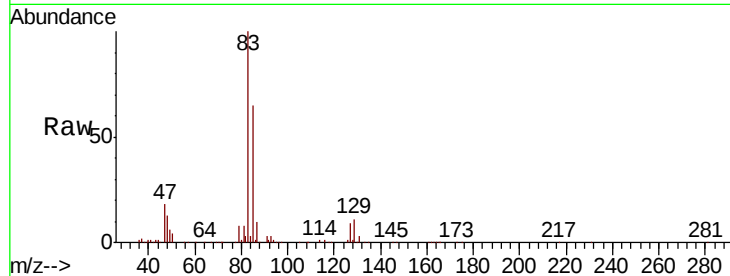
Tot Ion: 83 Resp: 275342

Ion Ratio Lower Upper

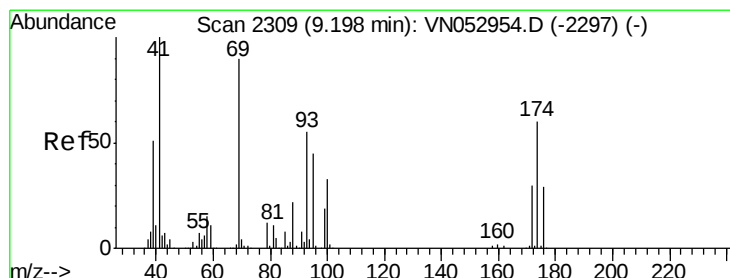
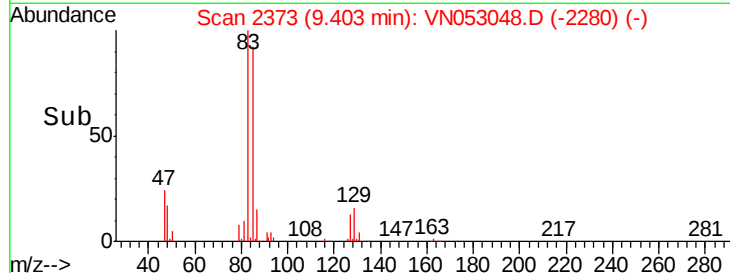
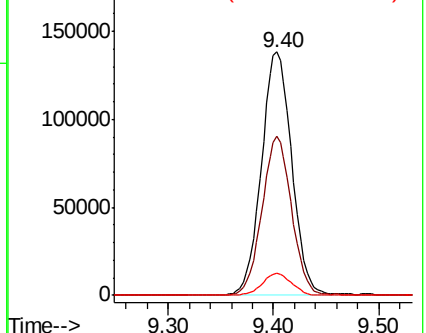
83 100

85 65.1 51.6 77.4

127 8.9 7.1 10.7



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): VN0



#48

Methyl methacrylate

Concen: 18.922 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

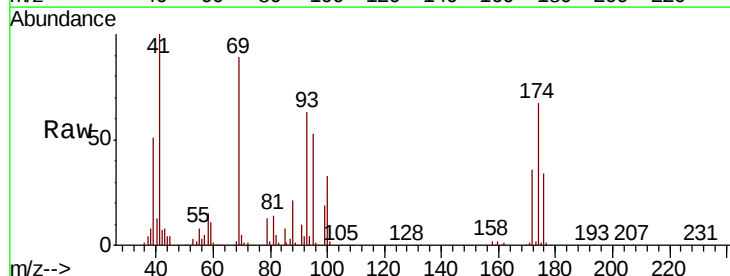
Tgt Ion: 41 Resp: 152819

Ion Ratio Lower Upper

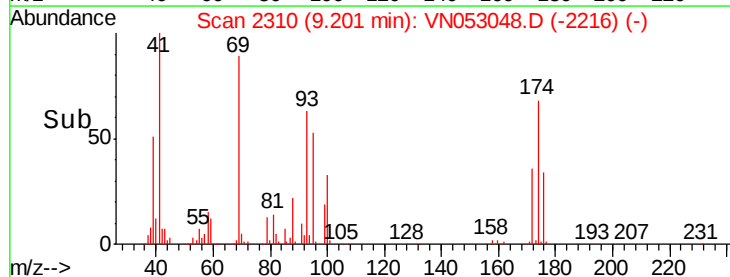
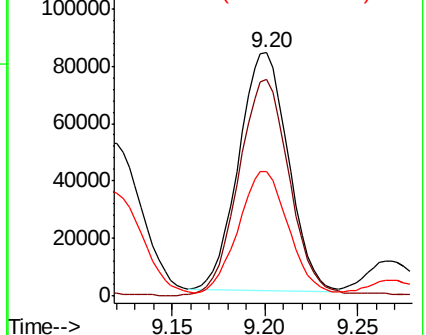
41 100

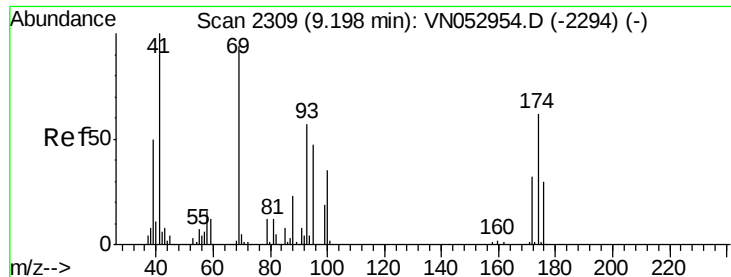
69 93.0 72.2 108.2

39 53.7 41.9 62.9



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 363.537 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :
MSVOA_N
ClientSampleId :

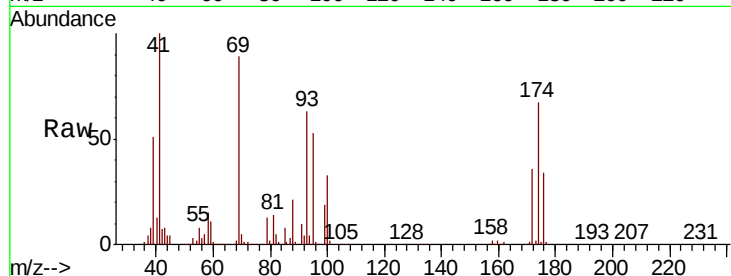
Tot Ion: 88 Resp: 37140

Ion Ratio Lower Upper

88 100

43 32.0 26.6 40.0

58 70.3 58.4 87.6



Abundance Ion 88.00 (87.70 to 88.70): VN052954.D (-2294) (-)

Ion 43.00 (42.70 to 43.70): VN052954.D (-2294) (-)

Ion 58.00 (57.70 to 58.70): VN052954.D (-2294) (-)

150000

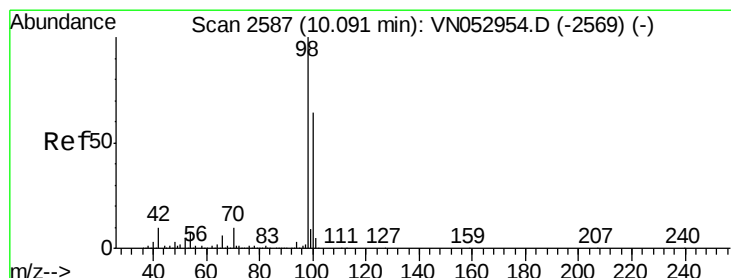
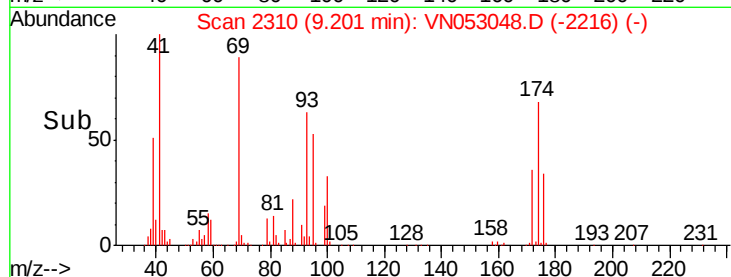
100000

50000

0

9.15 9.20 9.25 9.30

Time-->



#50

Toluene-d8

Concen: 363.537 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053048.D

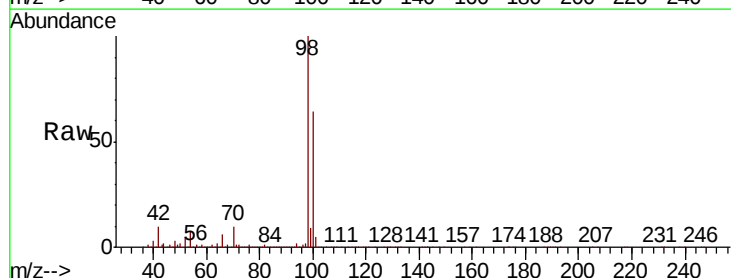
Acq: 20 Dec 2018 11:27

Tgt Ion: 98 Resp: 1999658

Ion Ratio Lower Upper

98 100

100 64.1 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN052954.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN052954.D (-2569) (-)

1200000

1000000

800000

600000

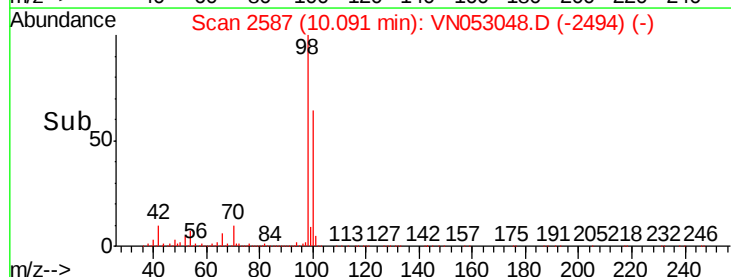
400000

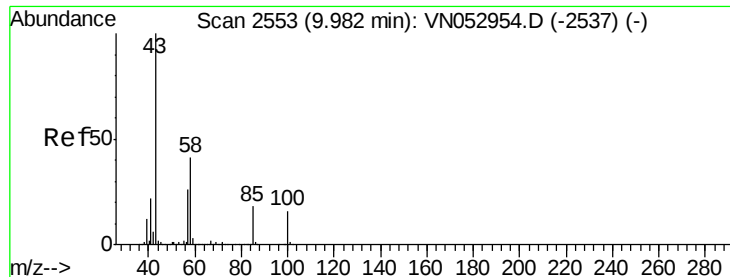
200000

0

10.00 10.10 10.20 10.30

Time-->





#51

4-Methyl-2-Pentanone

Concen: 101.659 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

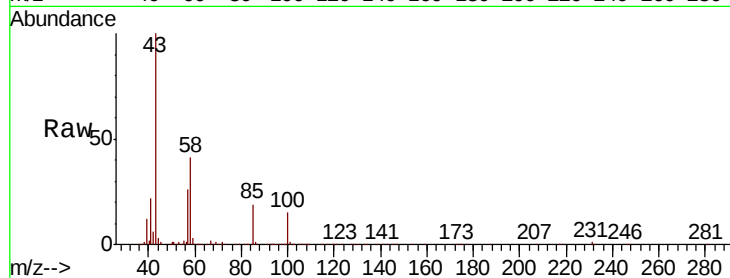
ClientSampled :

Tot Ion: 43 Resp: 819388

Ion Ratio Lower Upper

43 100

58 41.2 32.2 48.4



Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN052954.D (-2537) (-)

9.98

500000

400000

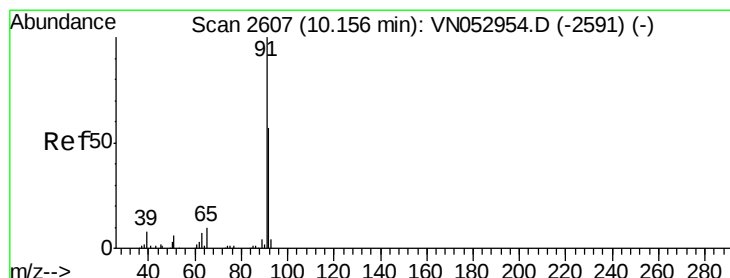
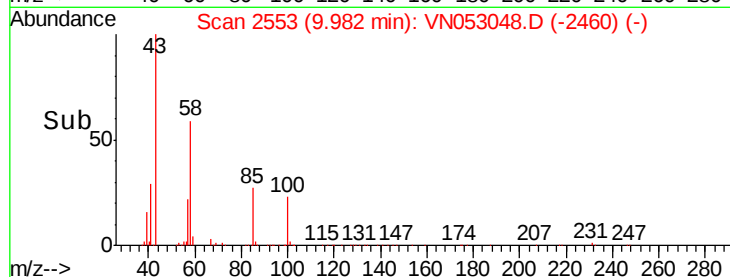
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 19.507 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN053048.D

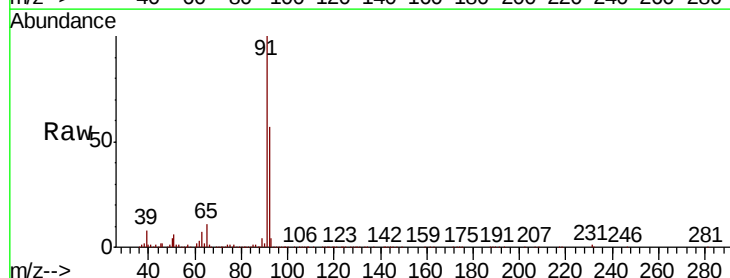
Acq: 20 Dec 2018 11:27

Tgt Ion: 92 Resp: 536192

Ion Ratio Lower Upper

92 100

91 175.6 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VN052954.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VN052954.D (-2591) (-)

10.16

600000

500000

400000

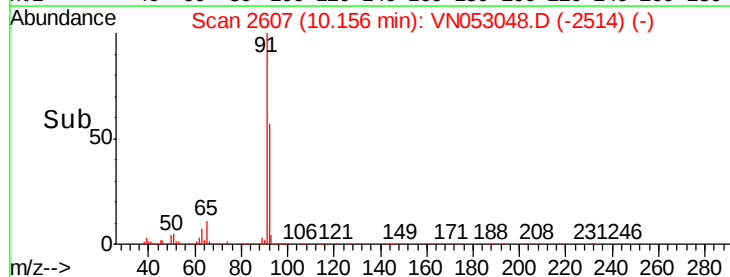
300000

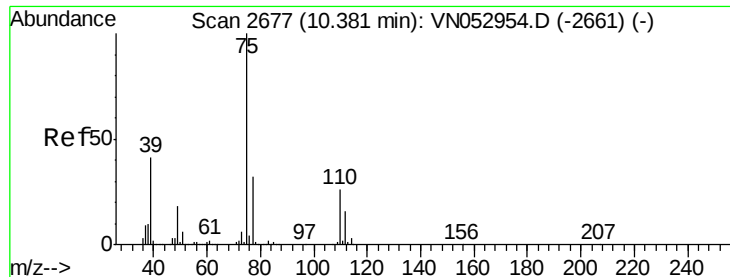
200000

100000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 18.363 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

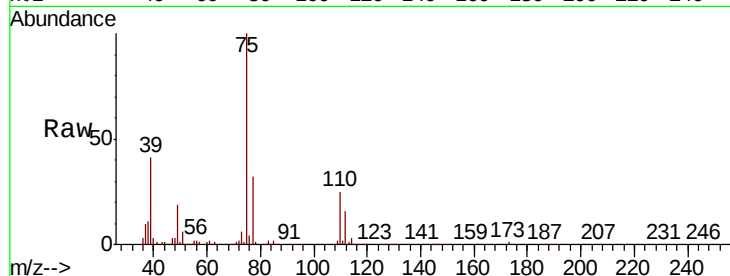
ClientSampleId :

Tot Ion: 75 Resp: 276191

Ion Ratio Lower Upper

75 100

77 31.8 25.6 38.4



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.38

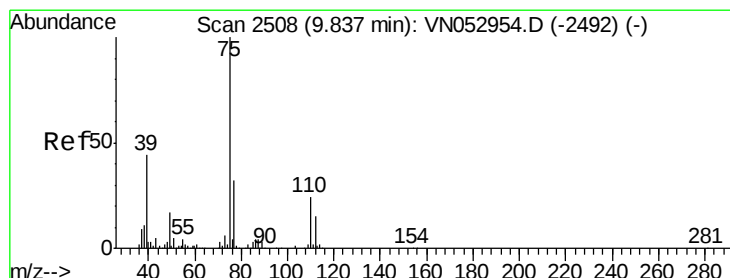
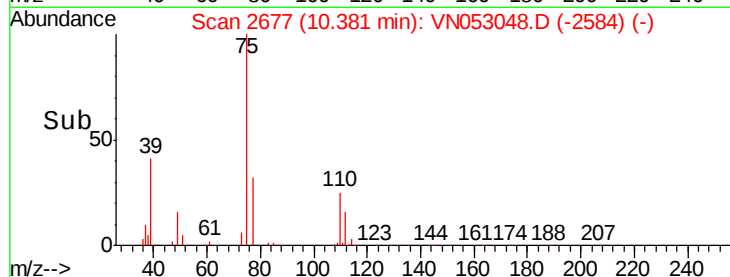
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 19.418 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

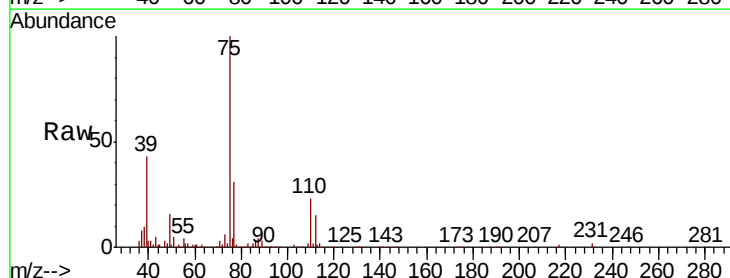
Tgt Ion: 75 Resp: 335235

Ion Ratio Lower Upper

75 100

77 30.8 25.8 38.8

39 42.8 34.8 52.2



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

250000

200000

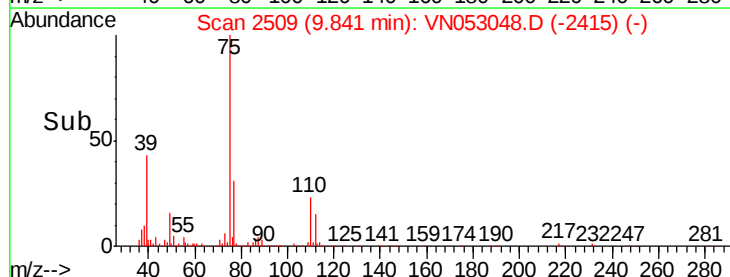
150000

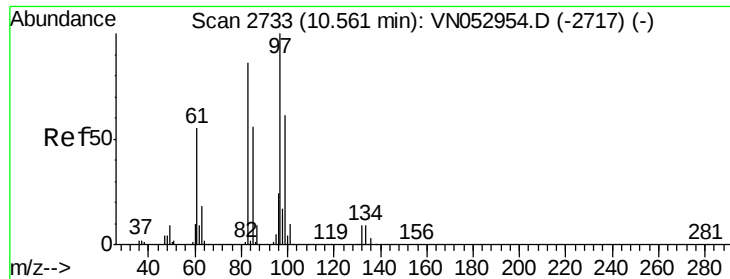
100000

50000

0

Time-->

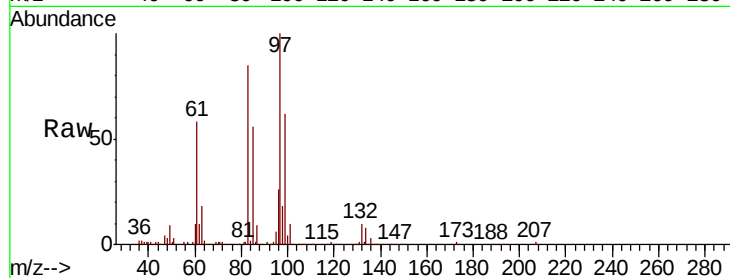




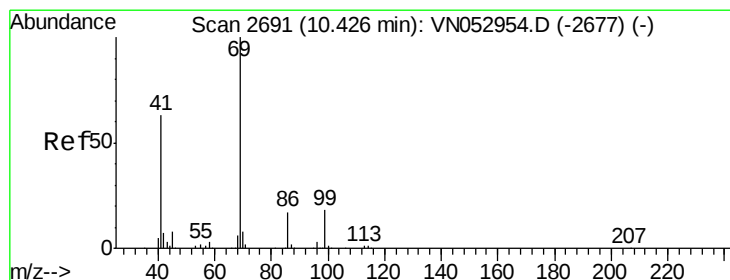
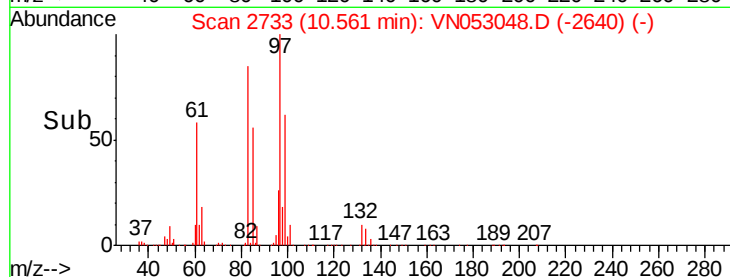
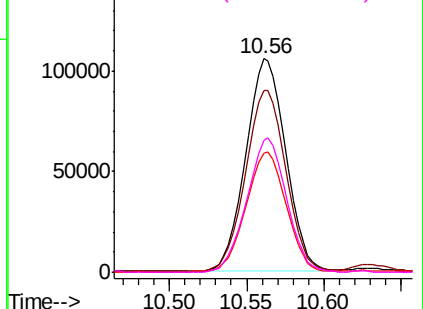
#55
 1,1,2-Trichloroethane
 Concen: 19.849 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN053048.D
 Acq: 20 Dec 2018 11:27

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:	97	Resp:	190347
Ion	Ratio	Lower	Upper
97	100		
83	85.2	70.9	106.3
85	55.9	45.4	68.2
99	62.0	50.4	75.6

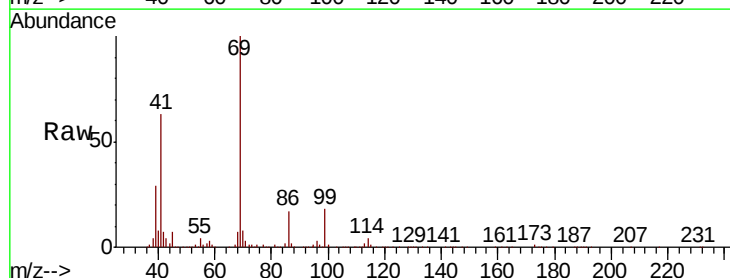


Abundance Ion 96.90 (96.60 to 97.60): VN0
 Ion 82.90 (82.60 to 83.60): VN0
 Ion 84.90 (84.60 to 85.60): VN0
 Ion 98.90 (98.60 to 99.60): VN0

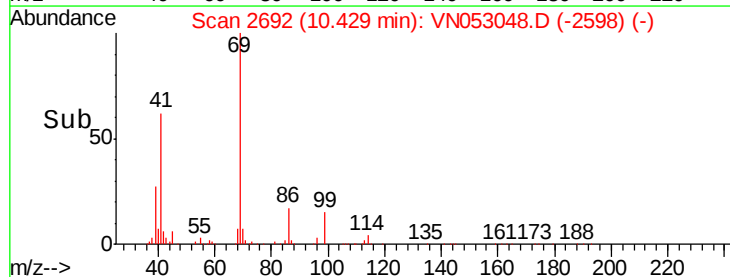
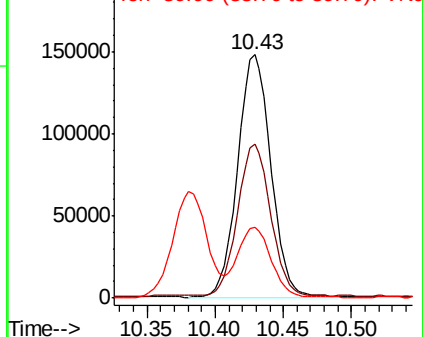


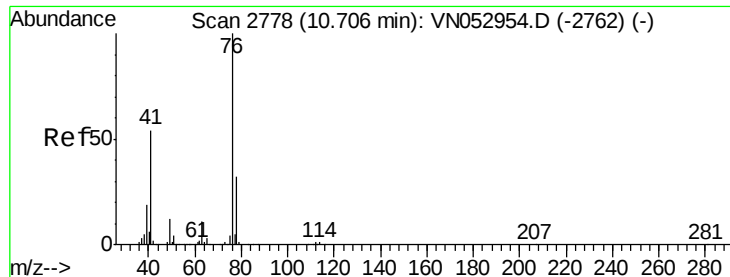
#56
 Ethyl methacrylate
 Concen: 19.657 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053048.D
 Acq: 20 Dec 2018 11:27

Tgt Ion:	69	Resp:	249495
Ion	Ratio	Lower	Upper
69	100		
41	61.8	51.7	77.5
39	29.5	24.6	37.0



Abundance Ion 69.00 (68.70 to 69.70): VN0
 Ion 41.00 (40.70 to 41.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 20.041 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

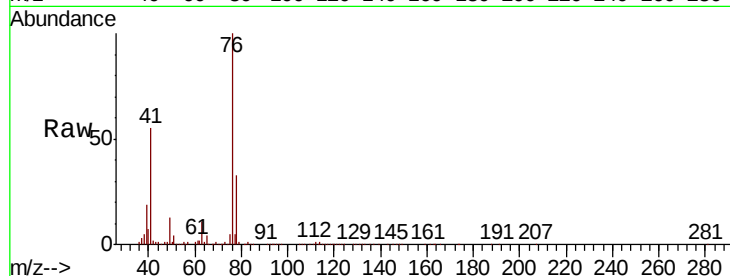
ClientSampled :

Tot Ion: 76 Resp: 329558

Ion Ratio Lower Upper

76 100

78 32.1 25.8 38.8



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

200000

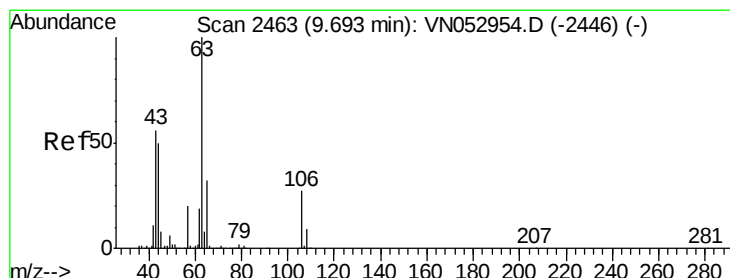
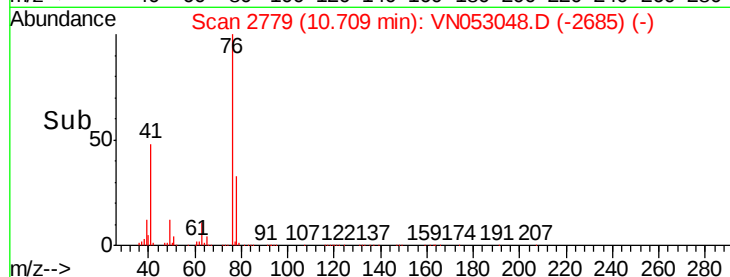
150000

100000

50000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 101.610 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053048.D

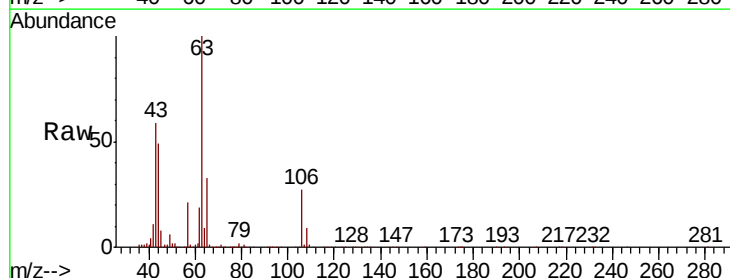
Acq: 20 Dec 2018 11:27

Tgt Ion: 63 Resp: 708043

Ion Ratio Lower Upper

63 100

106 27.4 21.0 31.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

400000

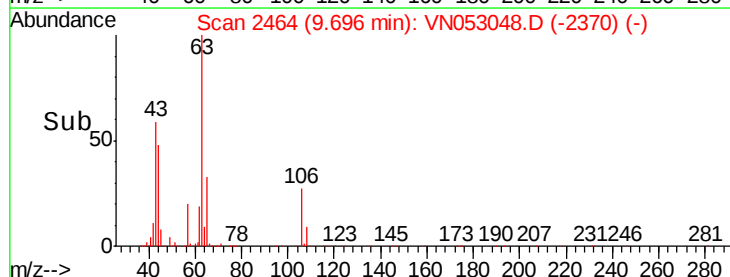
300000

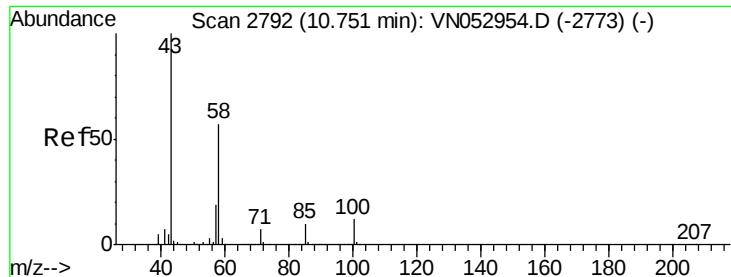
200000

100000

0

Time--> 9.60 9.70 9.80

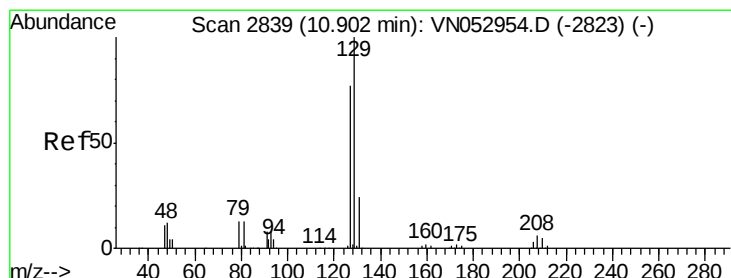
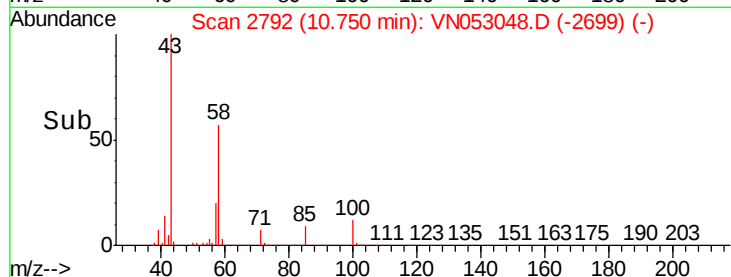
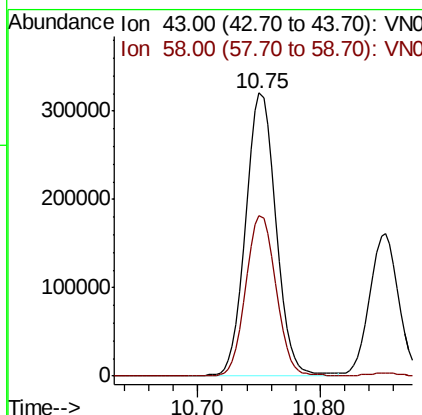
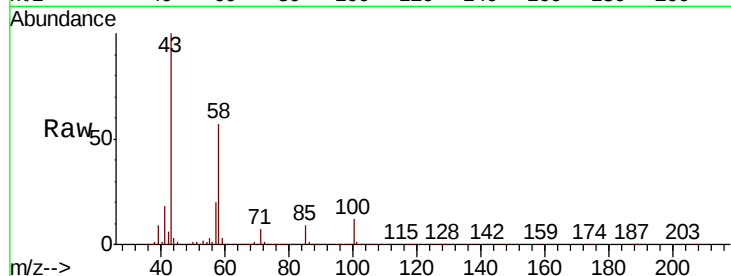




#59
2-Hexanone
Concen: 99.329 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

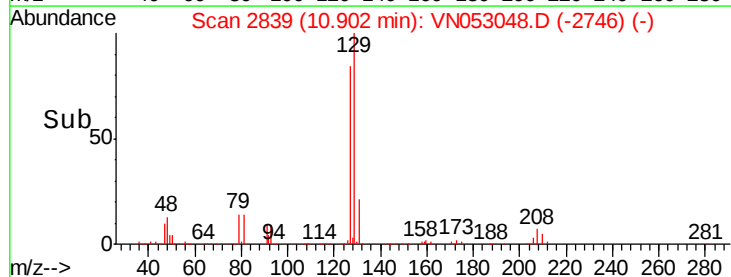
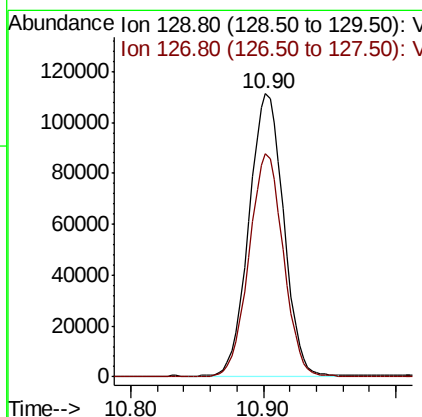
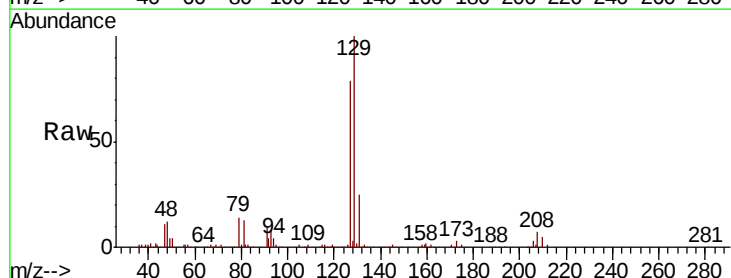
Instrument :
MSVOA_N
ClientSampleId :

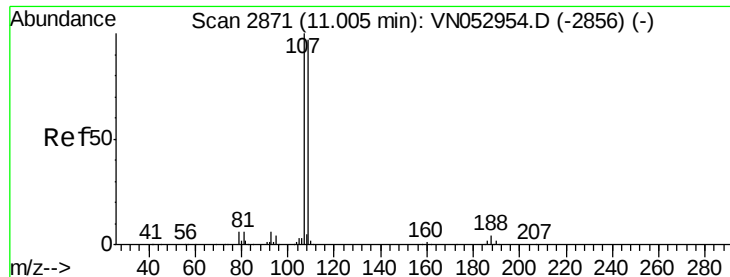
Tot Ion: 43 Resp: 541678
Ion Ratio Lower Upper
43 100
58 57.4 28.1 84.3



#60
Dibromochloromethane
Concen: 18.328 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Tgt Ion: 129 Resp: 201185
Ion Ratio Lower Upper
129 100
127 78.5 38.6 116.0





#61

1,2-Dibromoethane

Concen: 19.467 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

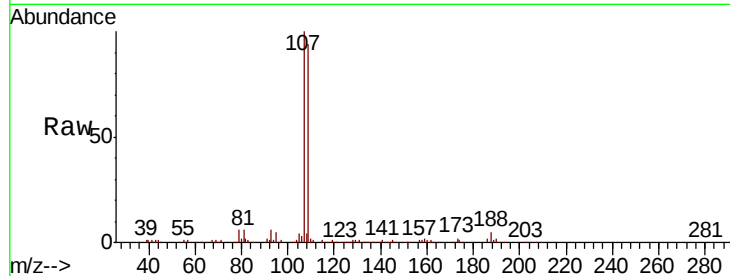
ClientSampleId :

Tot Ion: 107 Resp: 189593

Ion Ratio Lower Upper

107 100

109 93.9 75.4 113.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

100000

80000

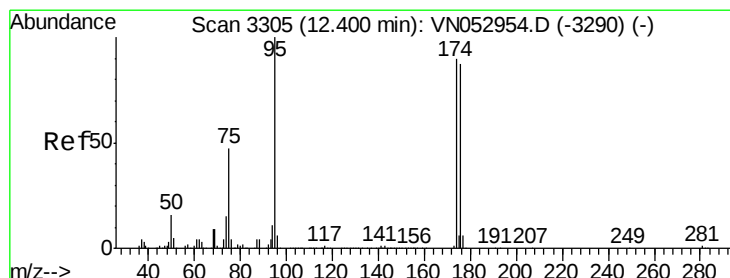
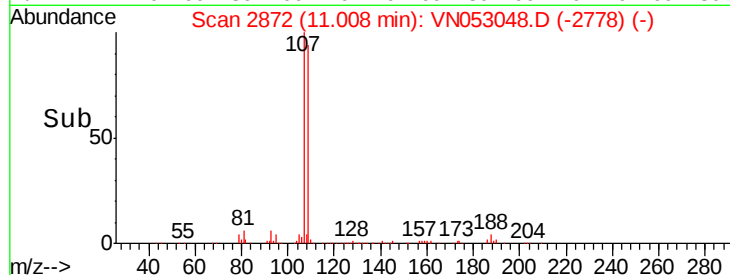
60000

40000

20000

0

Time--> 10.90 10.95 11.00 11.05



#62

4-Bromofluorobenzene

Concen: 19.467 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

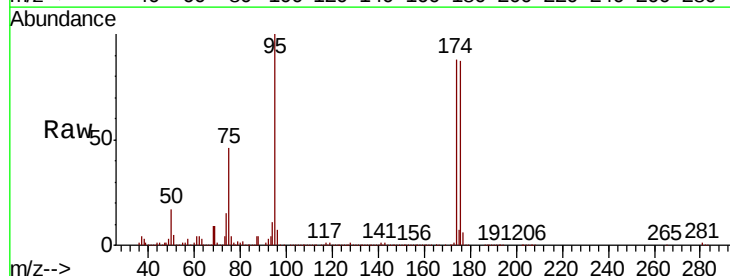
Tgt Ion: 95 Resp: 688666

Ion Ratio Lower Upper

95 100

174 89.9 0.0 178.8

176 87.8 0.0 173.8



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

12.40

500000

400000

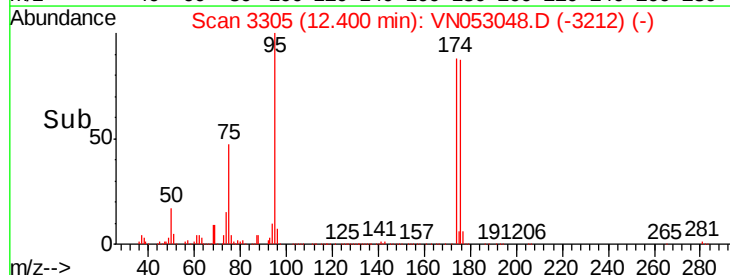
300000

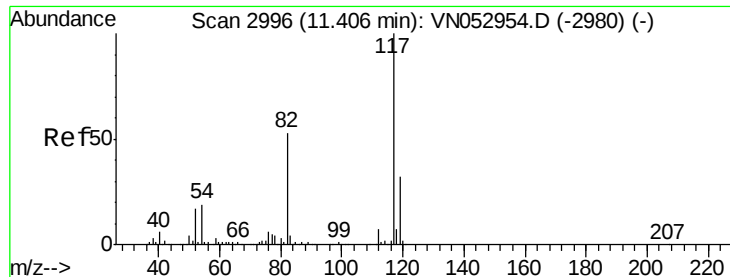
200000

100000

0

Time--> 12.30 12.40

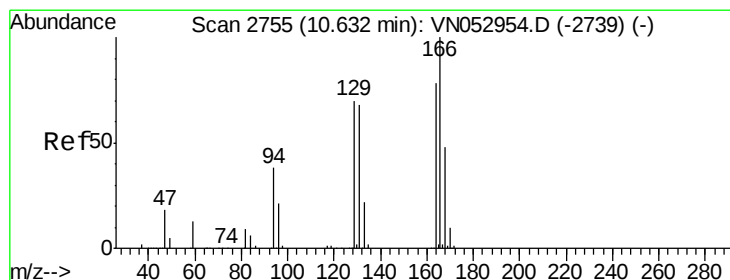
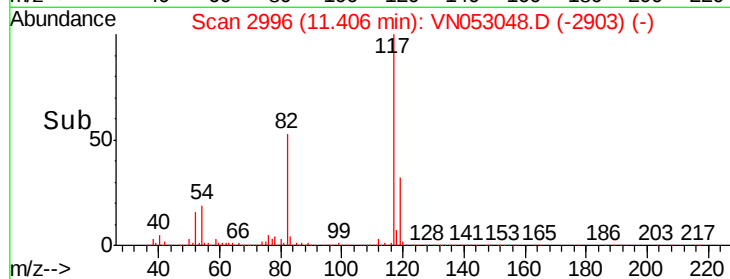
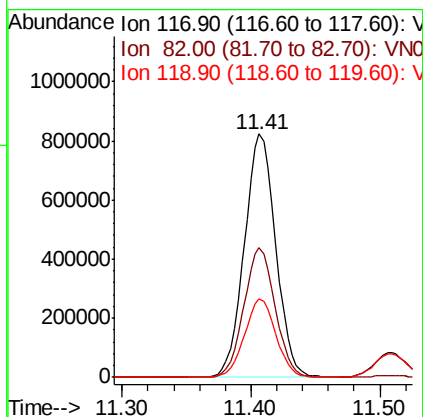
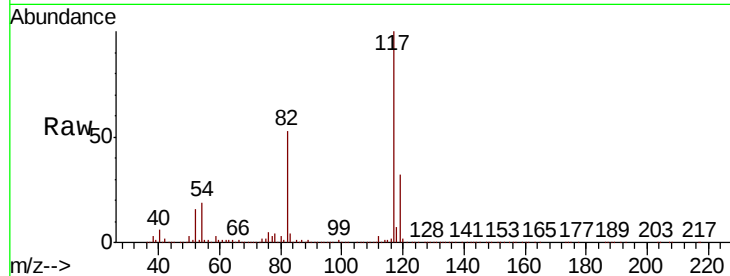




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

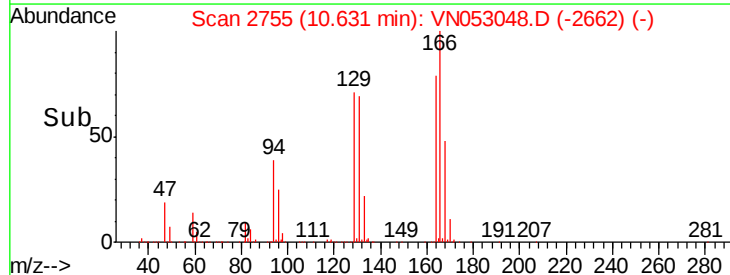
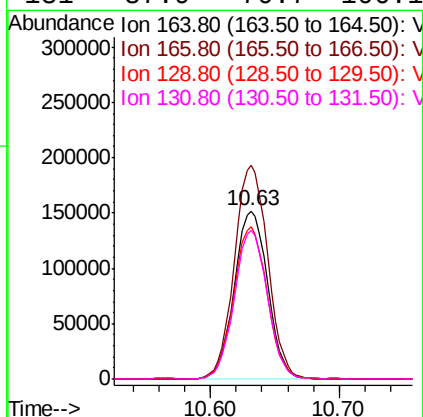
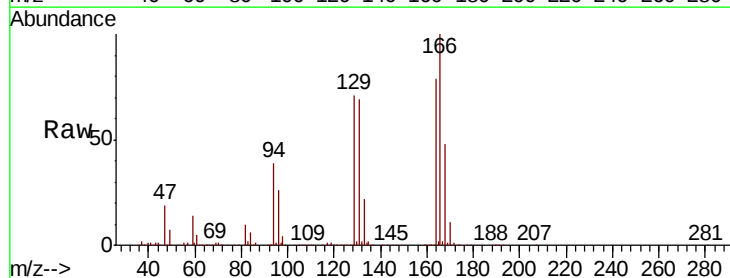
Instrument :
MSVOA_N
ClientSampled :

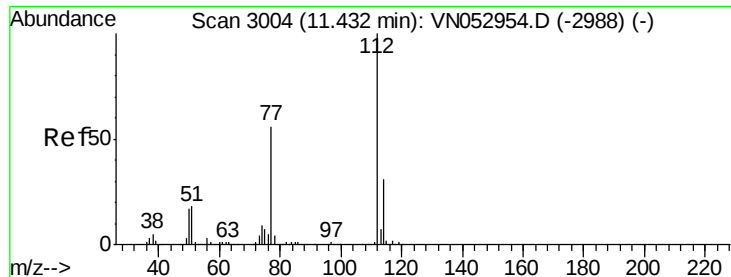
Tot Ion:117 Resp: 1388831
Ion Ratio Lower Upper
117 100
82 53.0 42.8 64.2
119 31.9 25.5 38.3



#64
Tetrachloroethene
Concen: 18.196 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Tgt Ion:164 Resp: 273741
Ion Ratio Lower Upper
164 100
166 126.9 102.9 154.3
129 90.0 73.7 110.5
131 87.9 70.7 106.1

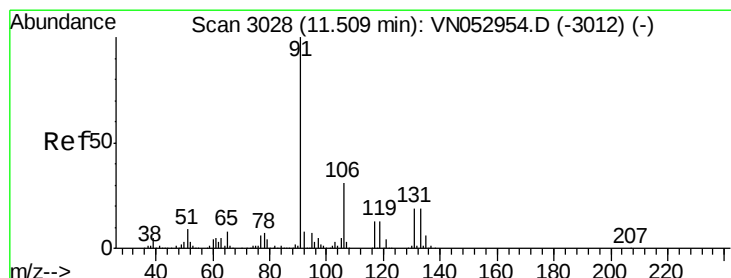
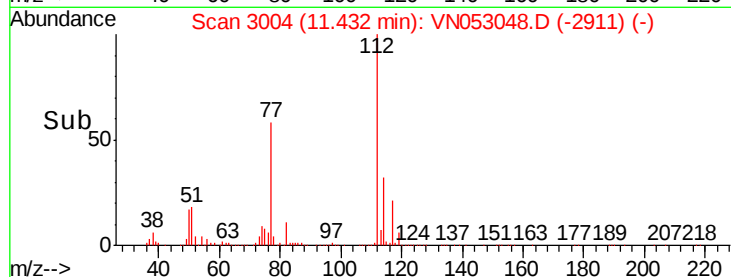
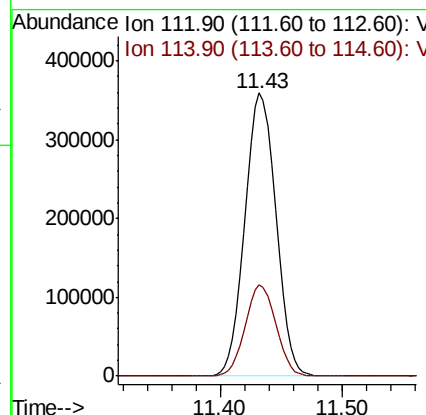
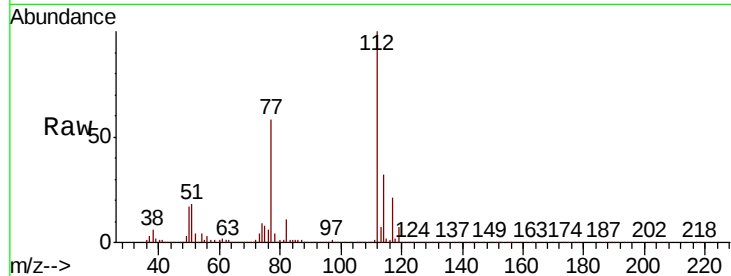




#65
Chlorobenzene
Concen: 20.496 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

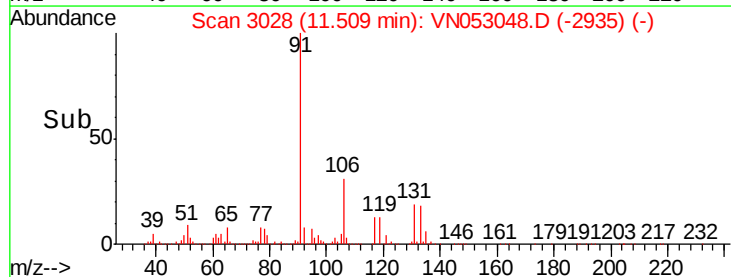
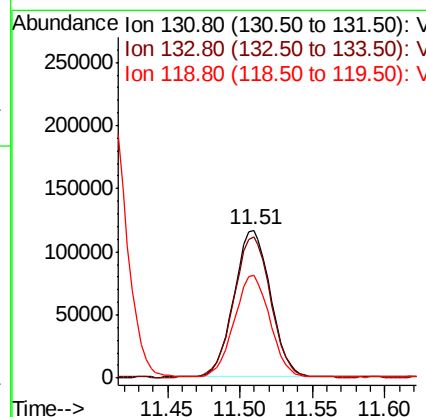
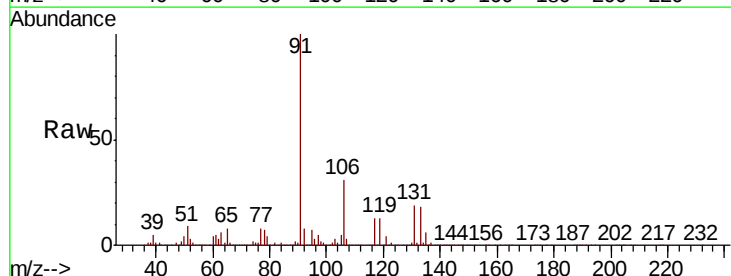
Instrument :
MSVOA_N
ClientSampled :

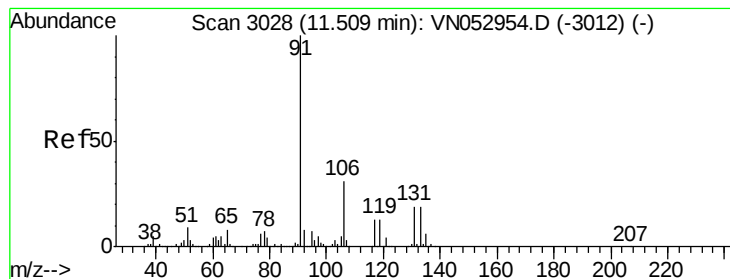
Tot Ion:112 Resp: 631000
Ion Ratio Lower Upper
112 100
114 32.1 25.5 38.3



#66
1,1,1,2-Tetrachloroethane
Concen: 18.978 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Tgt Ion:131 Resp: 203178
Ion Ratio Lower Upper
131 100
133 96.8 47.6 142.9
119 67.7 33.3 99.8





#67

Ethyl Benzene

Concen: 19.628 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

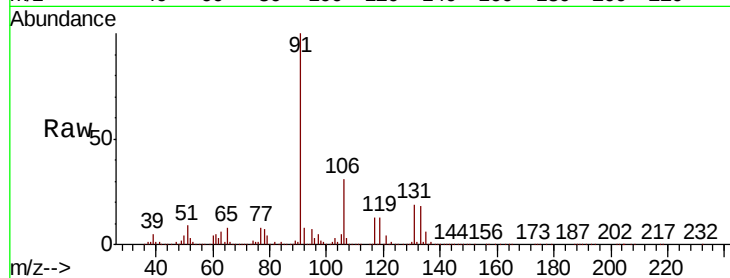
ClientSampled :

Tot Ion: 91 Resp: 1039218

Ion Ratio Lower Upper

91 100

106 31.5 24.9 37.3



Abundance Ion 91.00 (90.70 to 91.70): VN052954.D (-3012) (-)

Ion 106.00 (105.70 to 106.70): VN052954.D (-3012) (-)

800000

600000

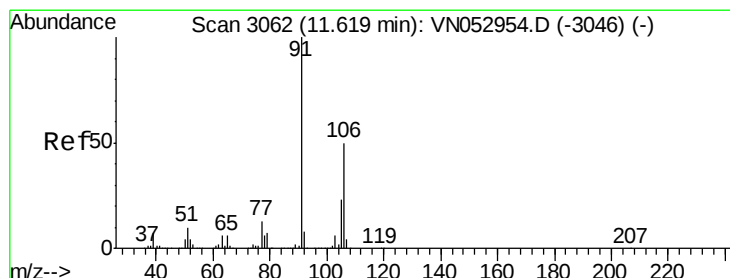
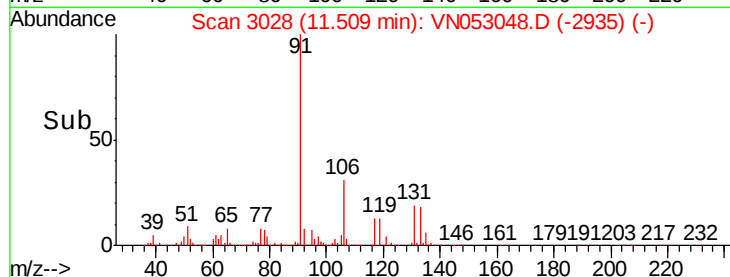
400000

200000

0

11.45 11.50 11.55

Time-->



#68

m/p-Xylenes

Concen: 38.987 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN053048.D

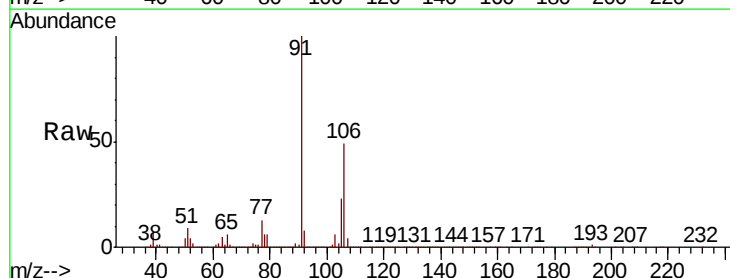
Acq: 20 Dec 2018 11:27

Tgt Ion: 106 Resp: 784697

Ion Ratio Lower Upper

106 100

91 203.6 162.2 243.4



Abundance Ion 106.00 (105.70 to 106.70): VN052954.D (-3046) (-)

Ion 91.00 (90.70 to 91.70): VN052954.D (-3046) (-)

800000

600000

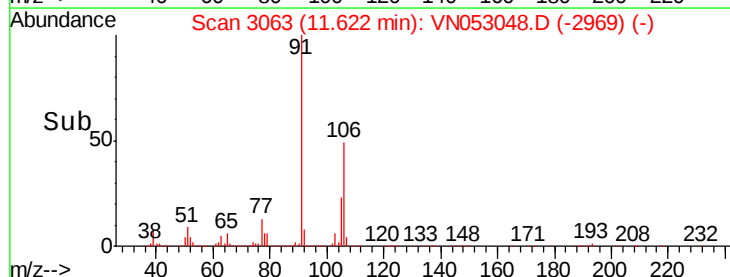
400000

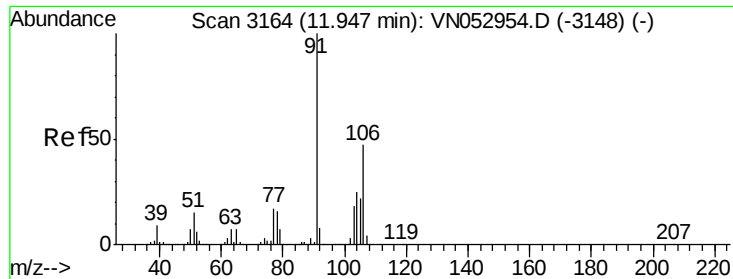
200000

0

11.60 11.62 11.64

Time-->

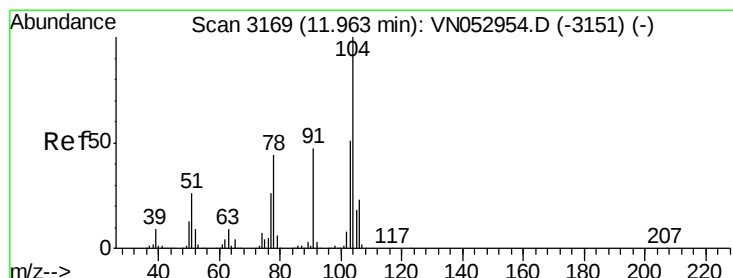
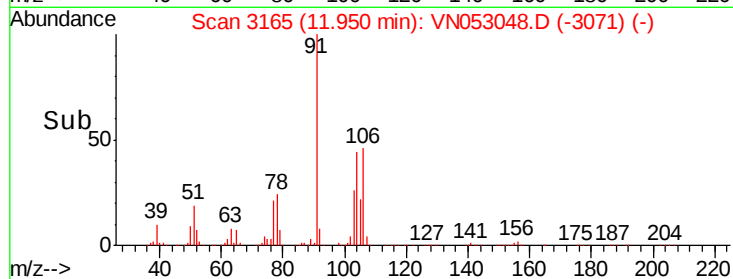
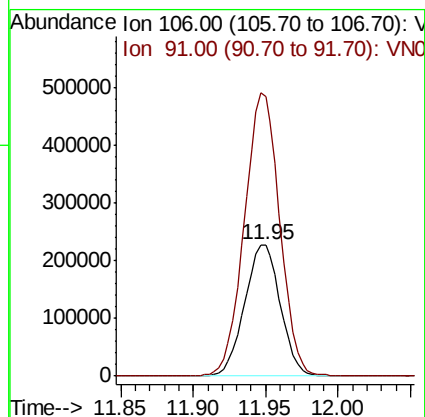
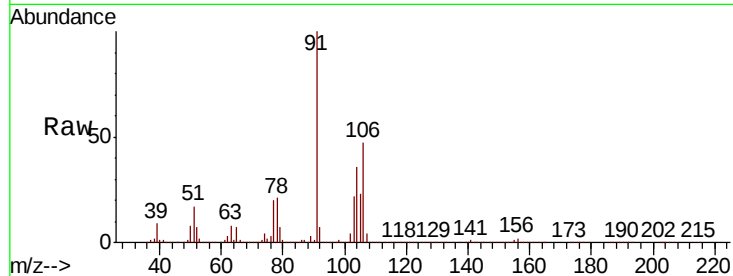




#69
o-Xylene
Concen: 20.092 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

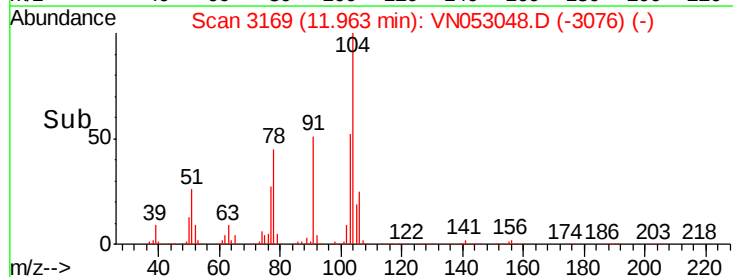
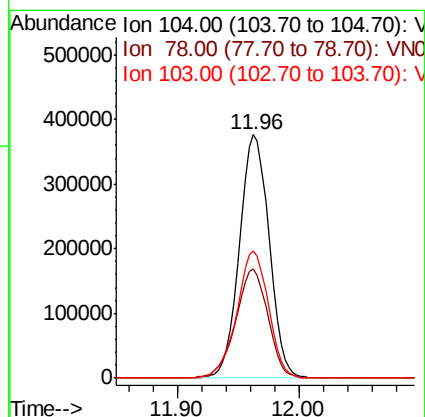
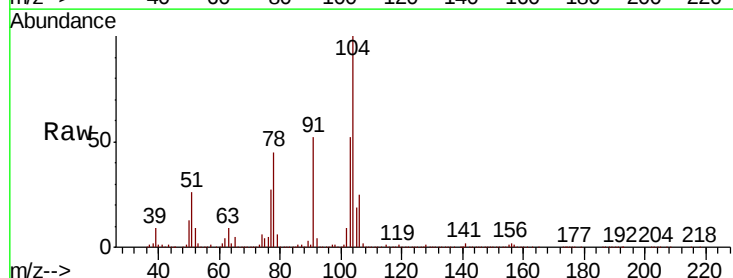
Instrument :
MSVOA_N
ClientSampled :

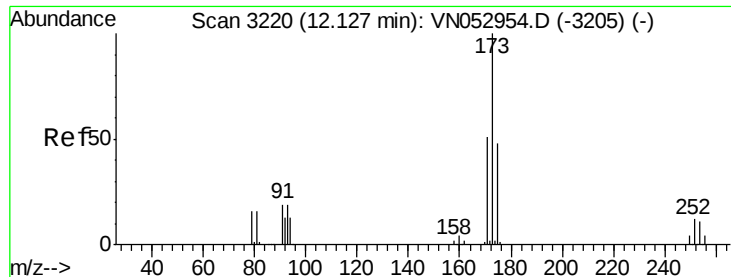
Tot Ion:106 Resp: 388058
Ion Ratio Lower Upper
106 100
91 212.9 106.6 319.8



#70
Styrene
Concen: 19.996 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Tgt Ion:104 Resp: 629724
Ion Ratio Lower Upper
104 100
78 48.6 38.9 58.3
103 55.8 44.3 66.5

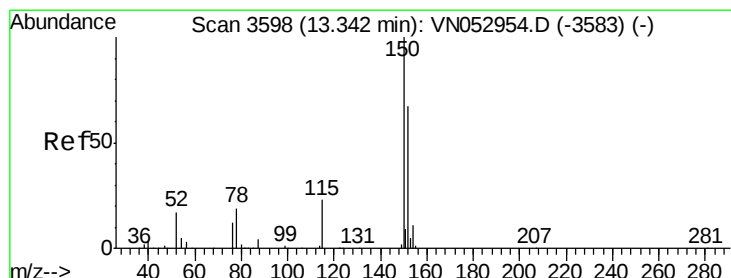
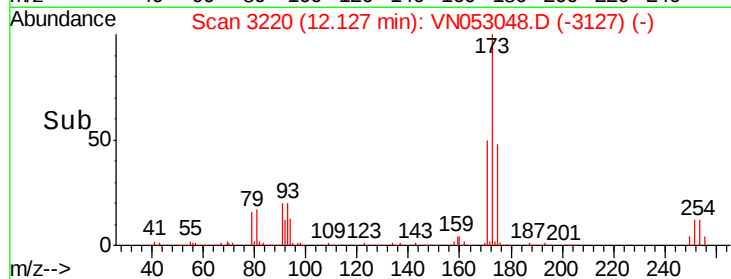
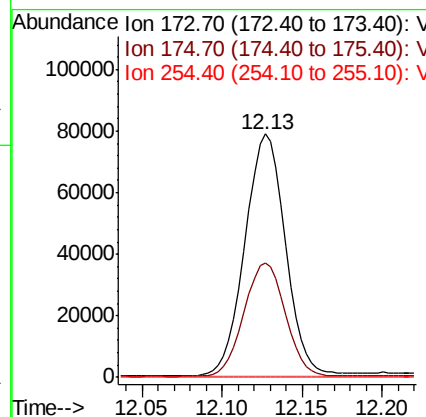
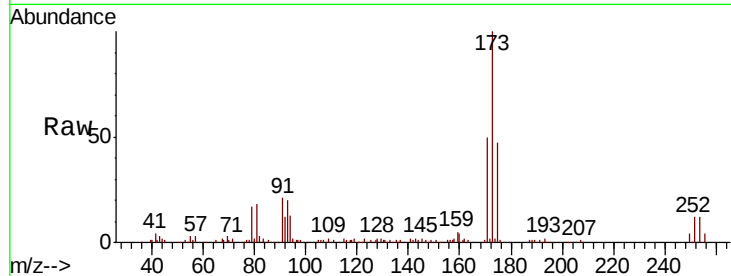




#71
Bromoform
Concen: 17.552 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

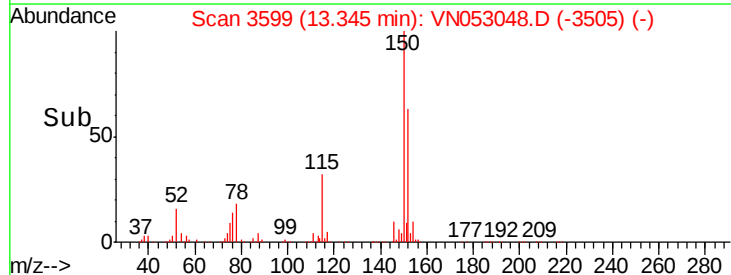
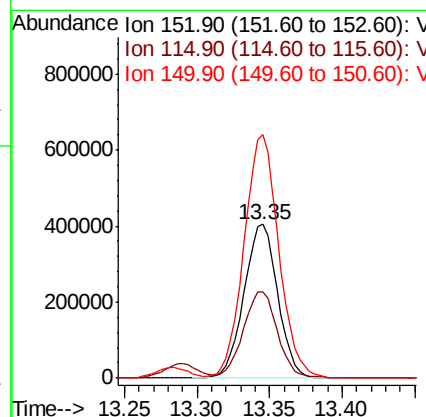
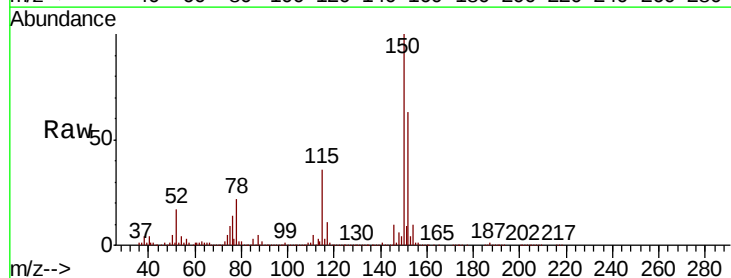
Instrument :
MSVOA_N
ClientSampled :

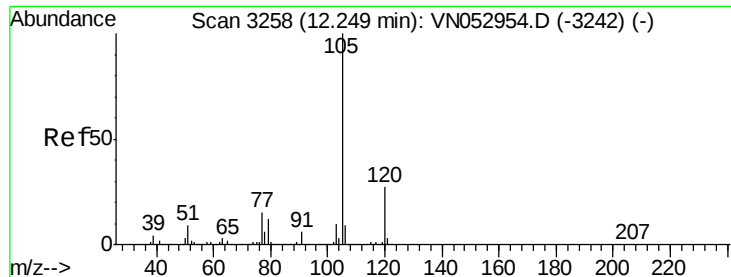
Tot Ion:173 Resp: 135746
Ion Ratio Lower Upper
173 100
175 48.2 24.3 72.9
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Tgt Ion:152 Resp: 652166
Ion Ratio Lower Upper
152 100
115 56.5 28.3 85.0
150 163.4 0.0 347.8





#73

Isopropylbenzene

Concen: 20.050 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

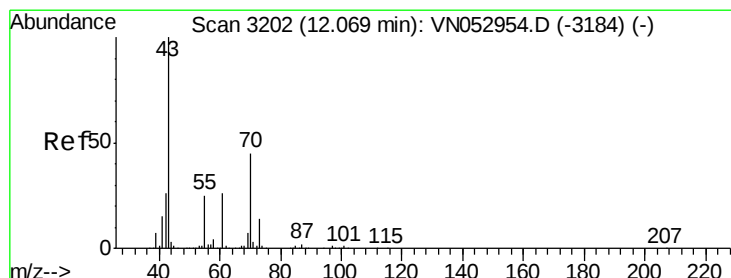
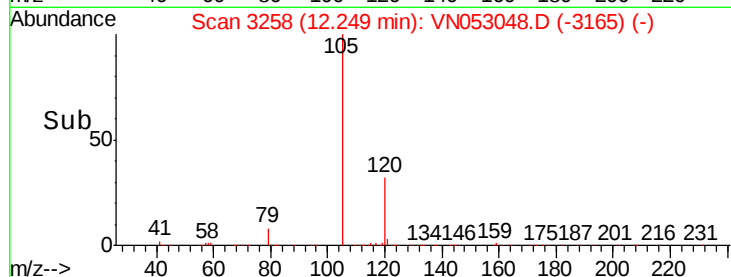
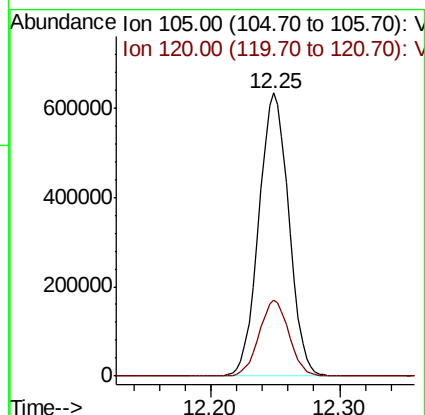
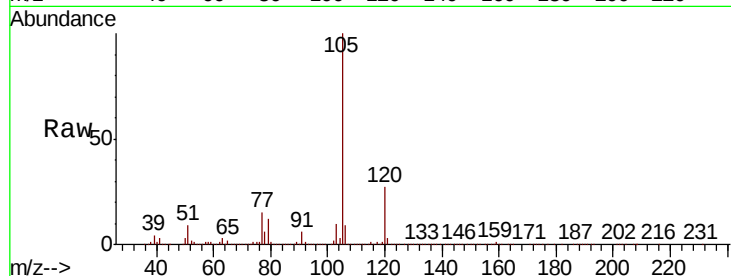
ClientSampleId :

Tot Ion:105 Resp: 1023078

Ion Ratio Lower Upper

105 100

120 26.6 13.3 39.9



#74

N-ethyl acetate

Concen: 19.859 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Tgt Ion: 43 Resp: 281334

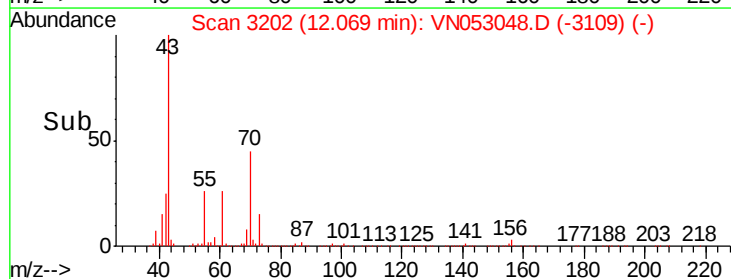
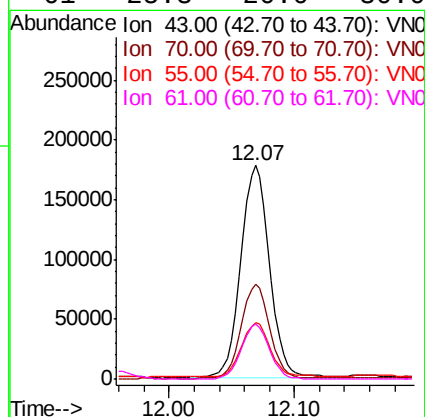
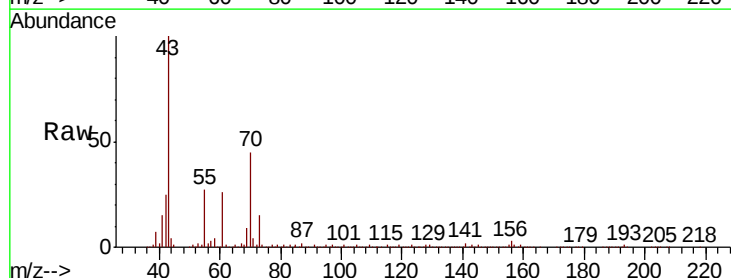
Ion Ratio Lower Upper

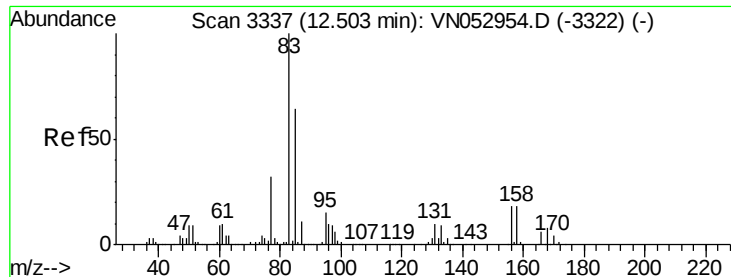
43 100

70 44.5 34.2 51.4

55 25.6 20.3 30.5

61 25.3 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 20.848 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

ClientSampleId :

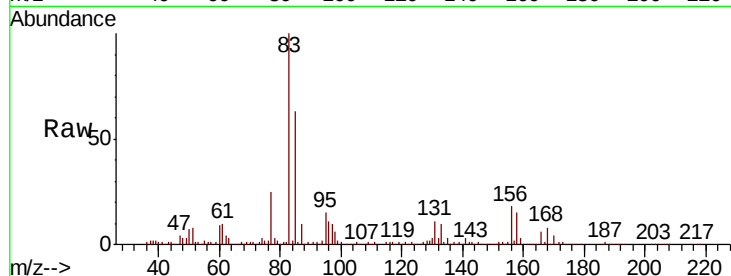
Tot Ion: 83 Resp: 208700

Ion Ratio Lower Upper

83 100

131 10.9 5.2 15.6

85 63.2 32.4 97.0



Abundance Ion 82.90 (82.60 to 83.60): VN052954.D (-3322) (-)

Ion 130.80 (130.50 to 131.50): VN052954.D (-3322) (-)

Ion 84.90 (84.60 to 85.60): VN052954.D (-3322) (-)

12.50

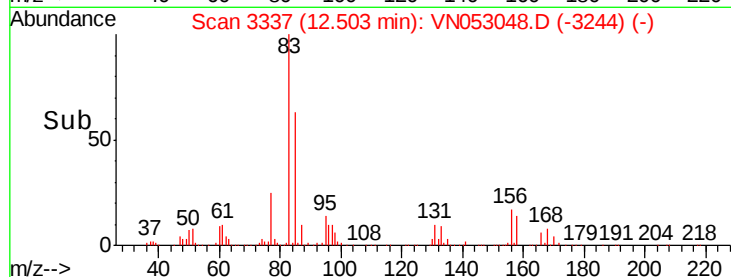
150000

100000

50000

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 25.702 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN053048.D

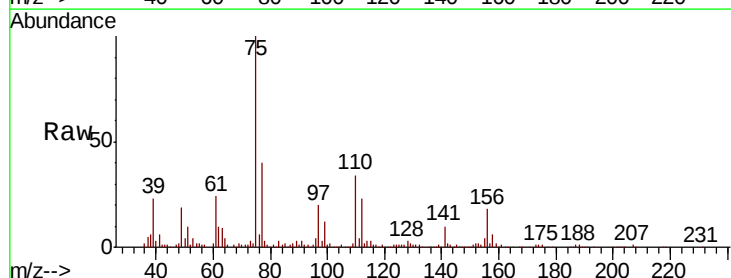
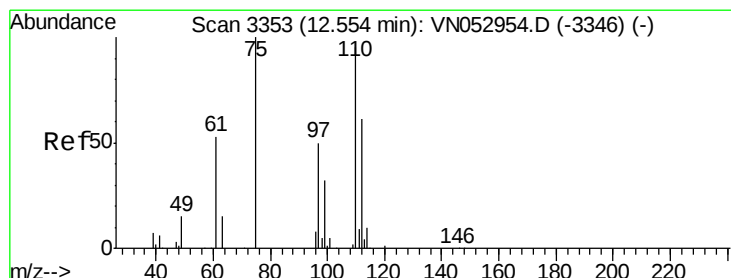
Acq: 20 Dec 2018 11:27

Tgt Ion: 75 Resp: 282166

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN052954.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN052954.D (-3346) (-)

250000

200000

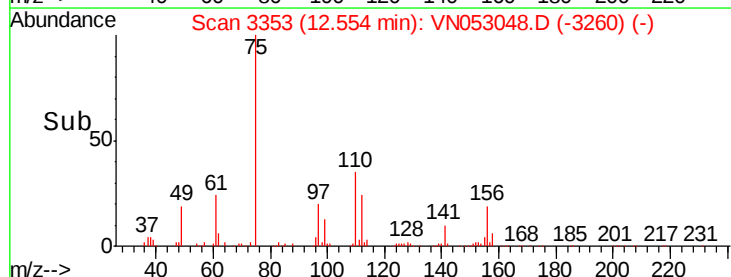
150000

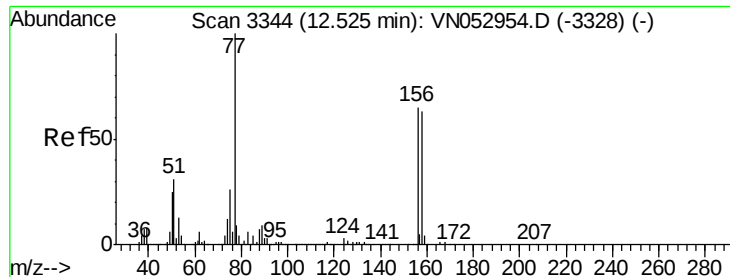
100000

50000

0

Time-->





#77

Bromobenzene

Concen: 22.765 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

ClientSampled :

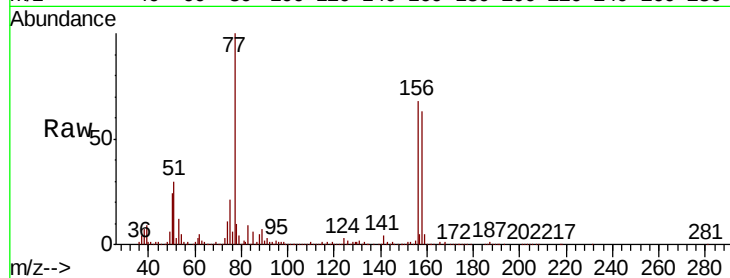
Tot Ion:156 Resp: 301953

Ion Ratio Lower Upper

156 100

77 153.2 91.3 273.8

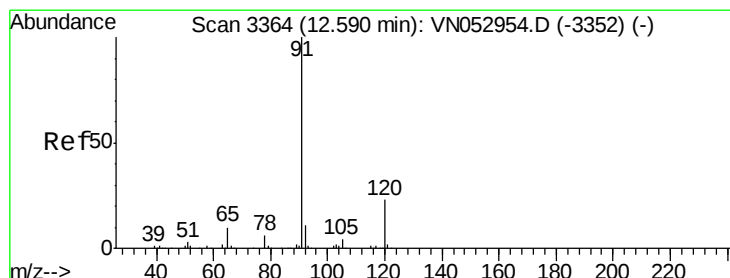
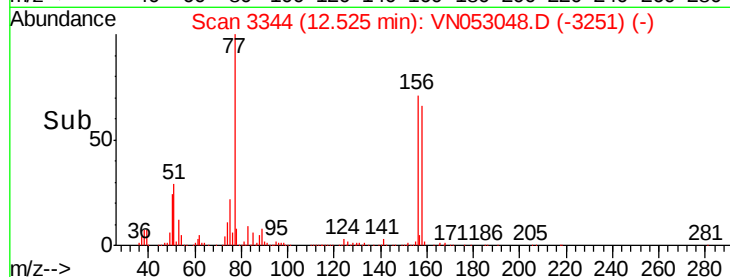
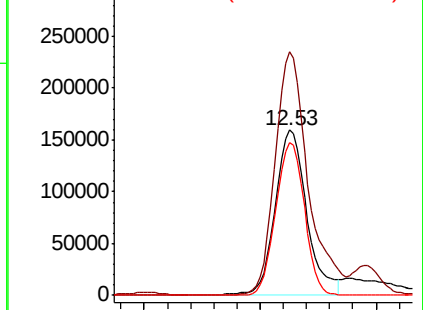
158 83.8 49.0 147.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.786 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053048.D

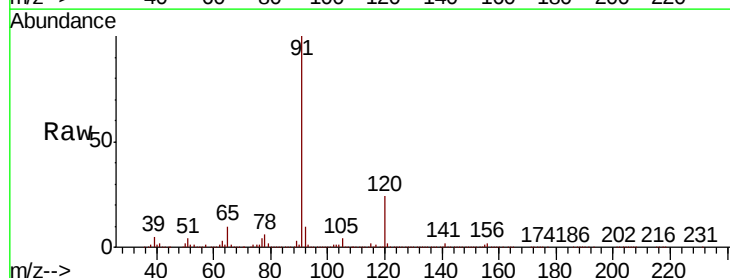
Acq: 20 Dec 2018 11:27

Tgt Ion: 91 Resp: 1149831

Ion Ratio Lower Upper

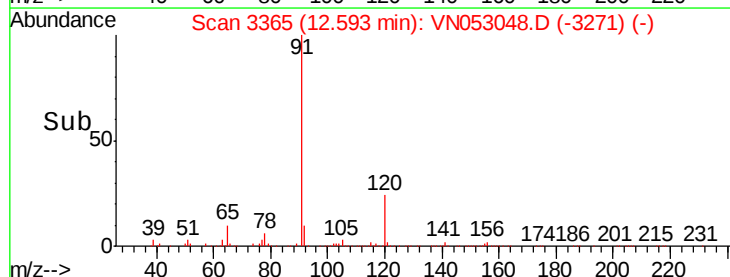
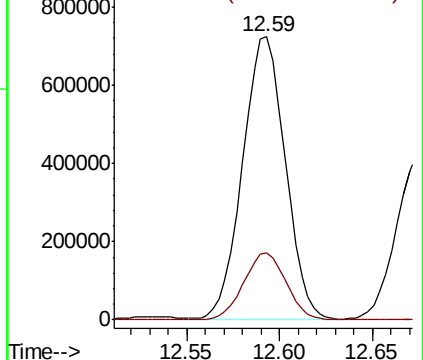
91 100

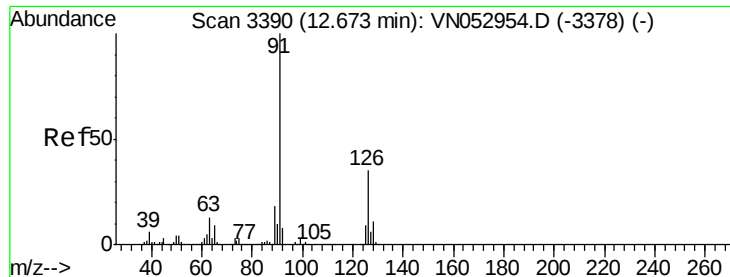
120 23.6 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 18.817 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

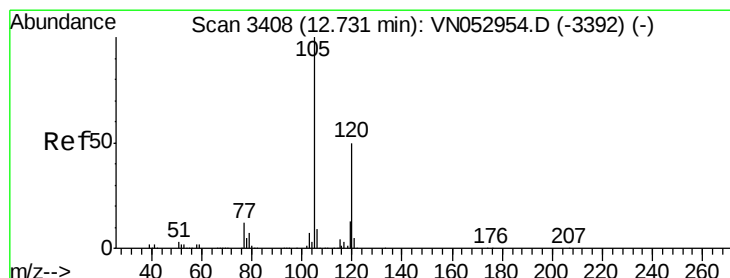
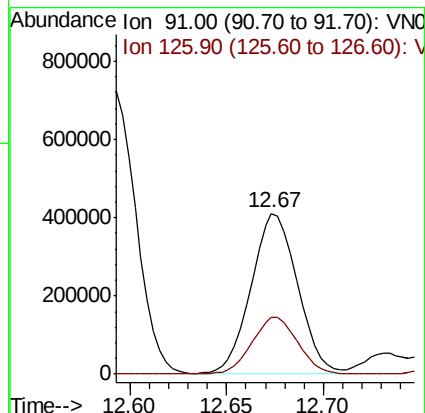
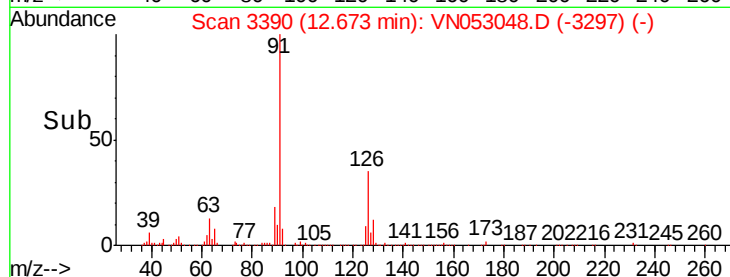
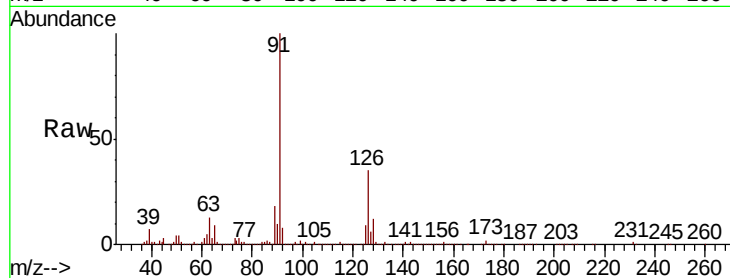
ClientSampleId :

Tot Ion: 91 Resp: 677837

Ion Ratio Lower Upper

91 100

126 35.2 17.4 52.3



#80

1,3,5-Trimethylbenzene

Concen: 19.842 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN053048.D

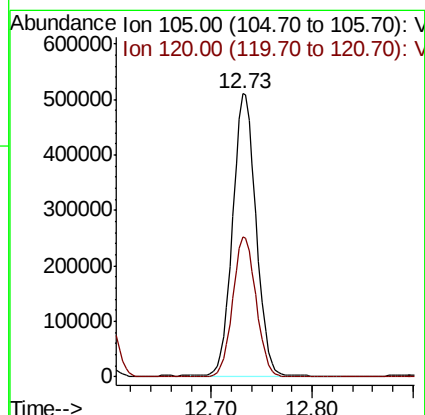
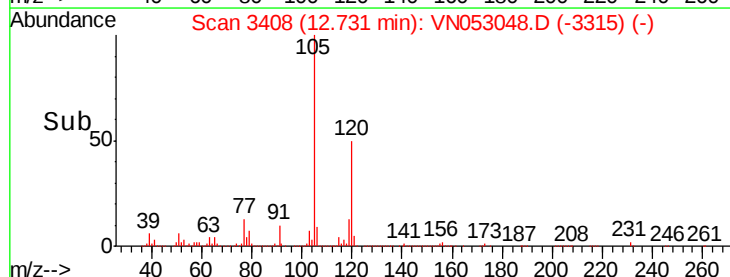
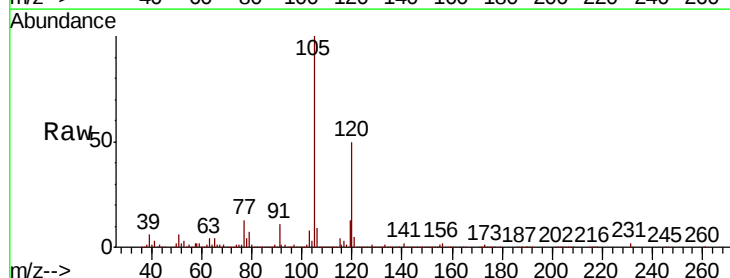
Acq: 20 Dec 2018 11:27

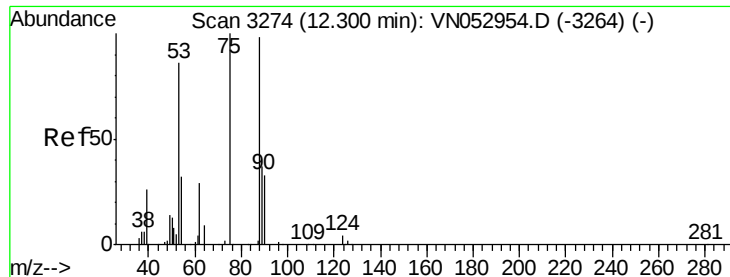
Tgt Ion: 105 Resp: 825234

Ion Ratio Lower Upper

105 100

120 48.9 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 17.583 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

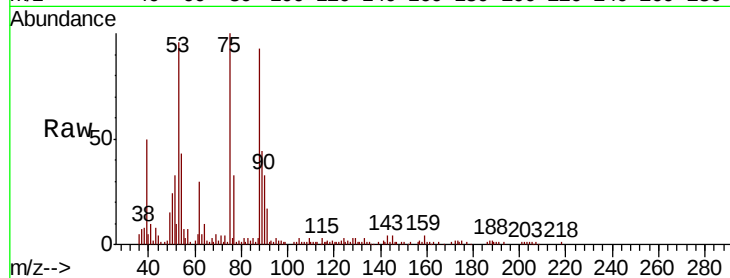
Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 59890

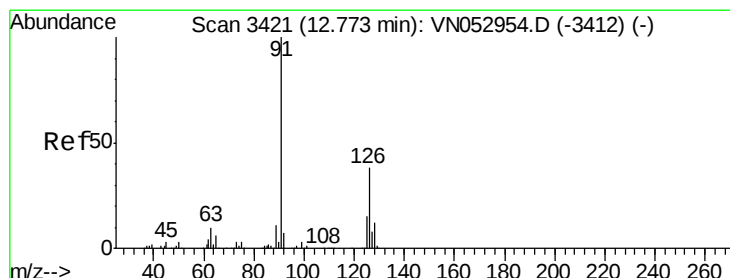
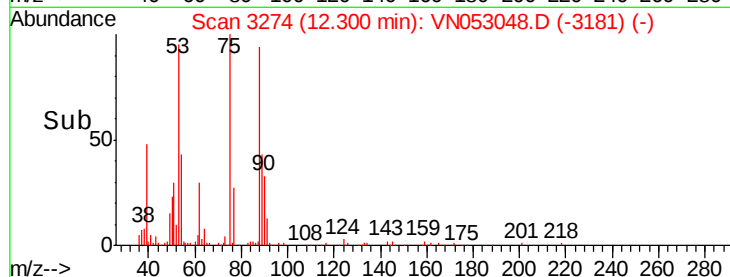
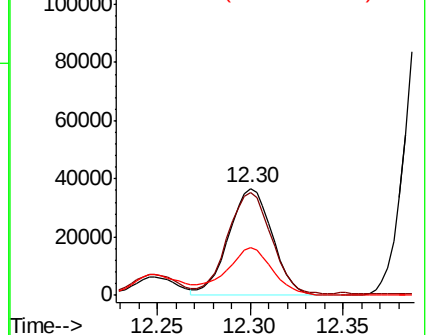
Ion	Ratio	Lower	Upper
75	100		
53	94.5	74.7	112.1
89	47.2	36.1	54.1



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



#82

4-Chlorotoluene

Concen: 19.601 ug/l

RT: 12.77 min Scan# 3421

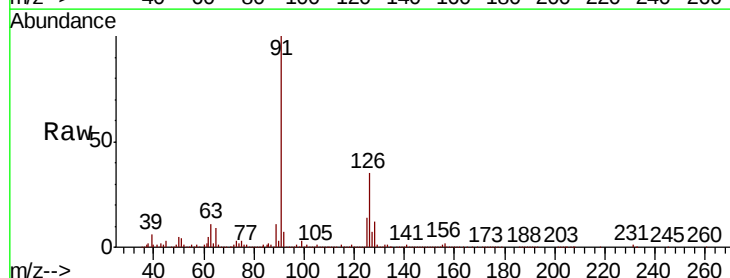
Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

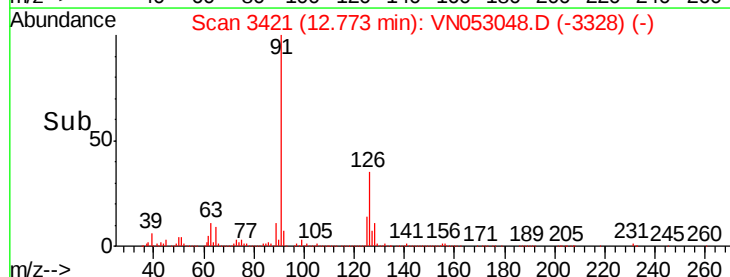
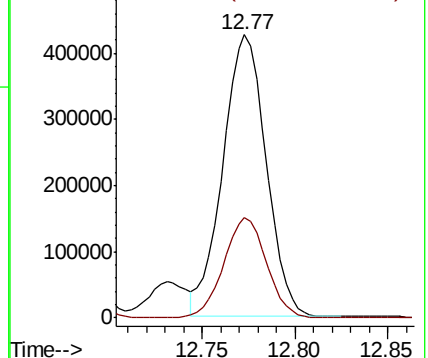
Tgt Ion: 91 Resp: 691159

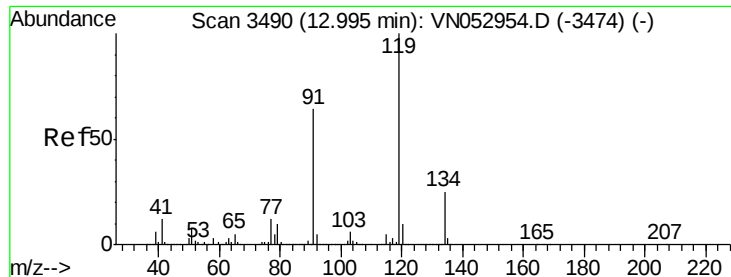
Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.3	51.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

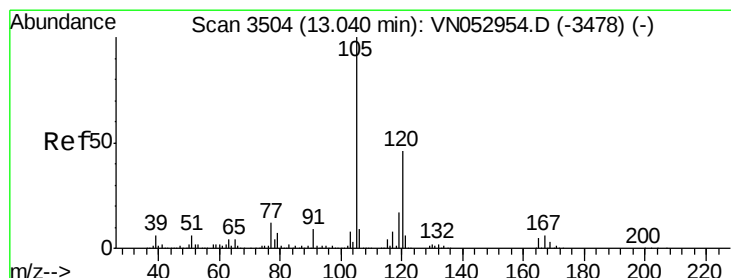
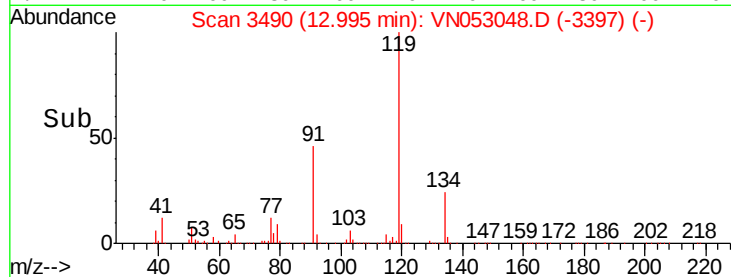
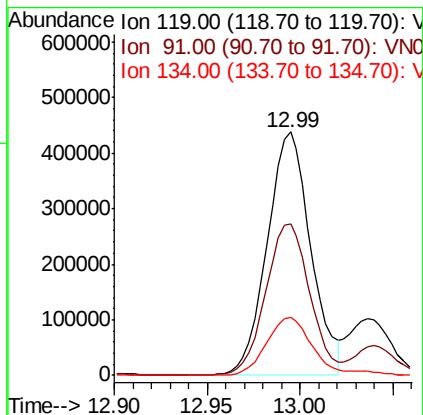
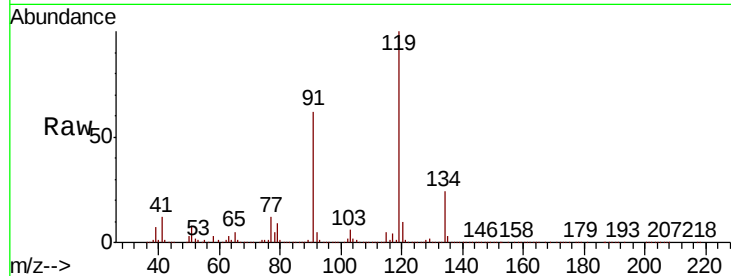




#83
 tert-Butylbenzene
 Concen: 19.432 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN053048.D
 Acq: 20 Dec 2018 11:27

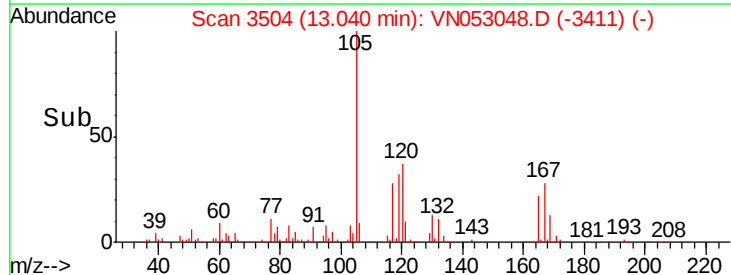
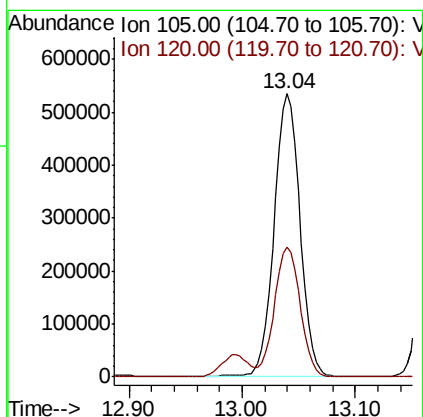
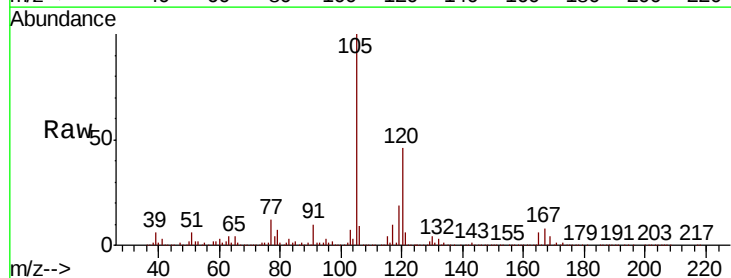
Instrument :
 MSVOA_N
 ClientSampled :

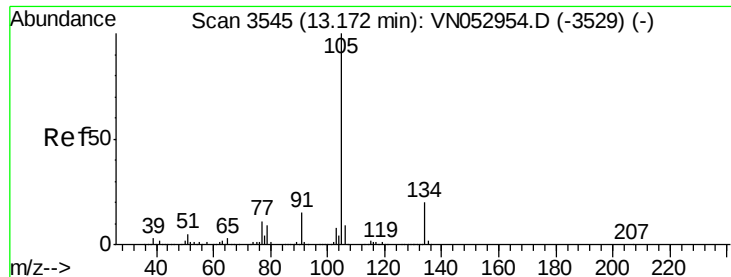
Tot Ion:119 Resp: 714779
 Ion Ratio Lower Upper
 119 100
 91 63.2 31.9 95.5
 134 25.7 12.8 38.4



#84
 1,2,4-Trimethylbenzene
 Concen: 20.070 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN053048.D
 Acq: 20 Dec 2018 11:27

Tgt Ion:105 Resp: 839123
 Ion Ratio Lower Upper
 105 100
 120 46.0 22.9 68.8





#85

sec-Butylbenzene

Concen: 19.097 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

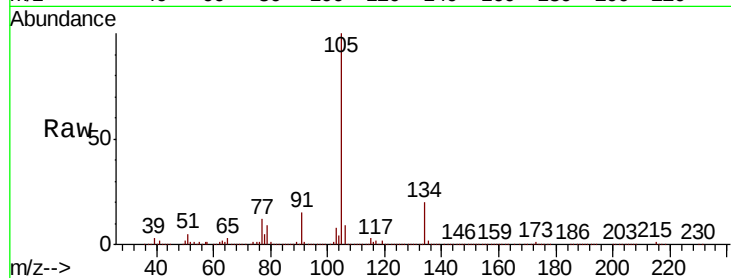
ClientSampled :

Tot Ion:105 Resp: 950124

Ion Ratio Lower Upper

105 100

134 20.5 10.1 30.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

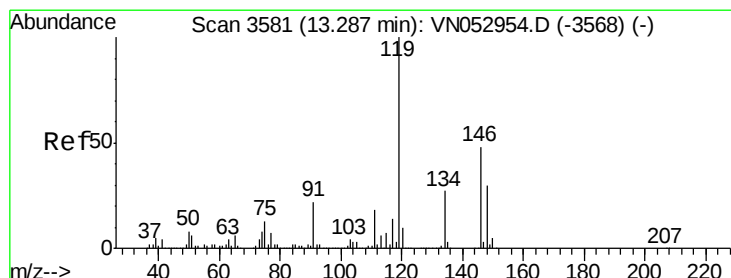
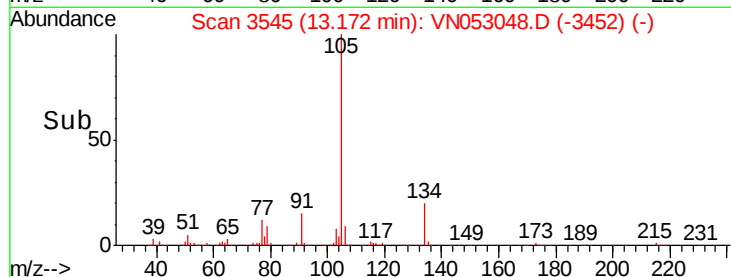
600000

400000

200000

0

Time-->



#86

p-Isopropyltoluene

Concen: 19.402 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

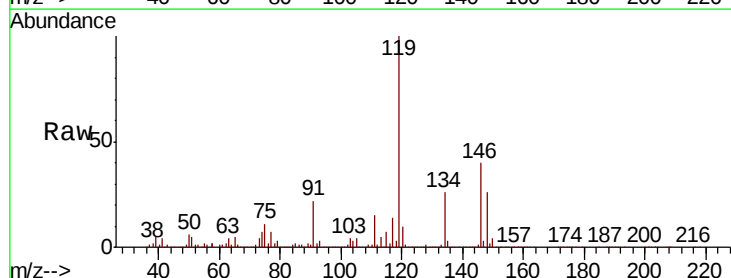
Tgt Ion:119 Resp: 834098

Ion Ratio Lower Upper

119 100

134 26.8 13.4 40.2

91 21.6 11.1 33.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

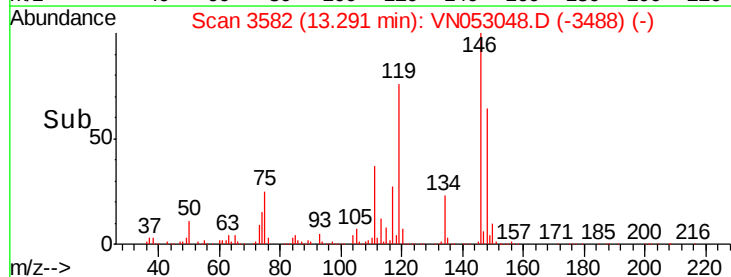
600000

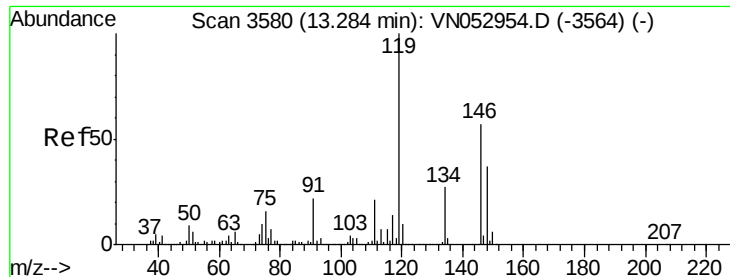
400000

200000

0

Time-->

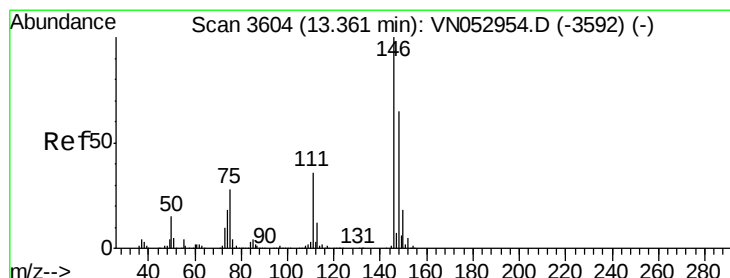
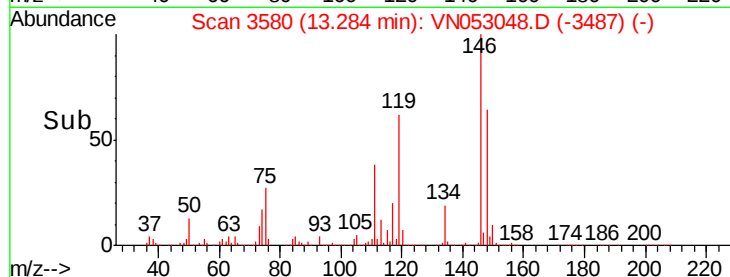
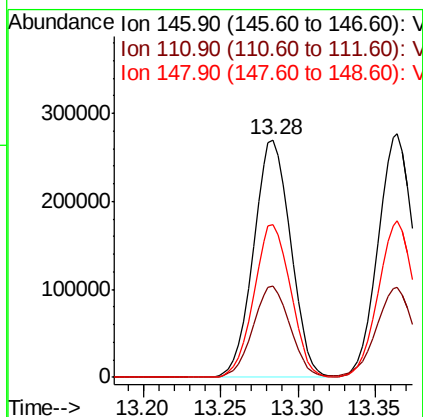
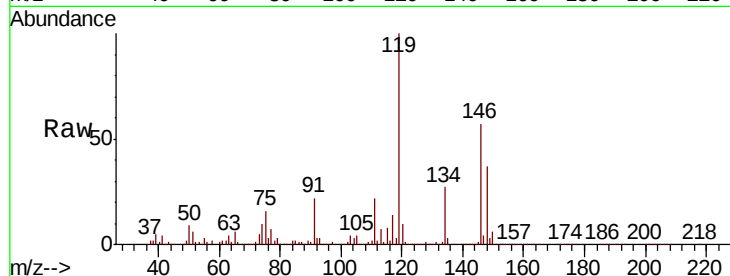




#87
 1,3-Dichlorobenzene
 Concen: 19.137 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN053048.D
 Acq: 20 Dec 2018 11:27

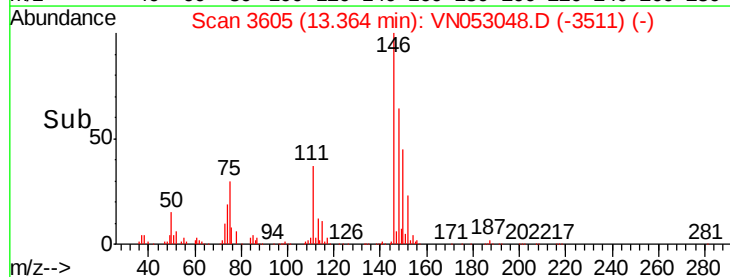
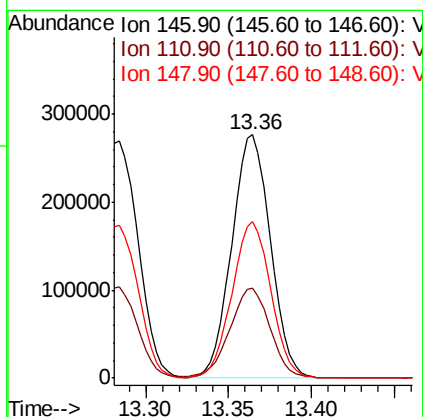
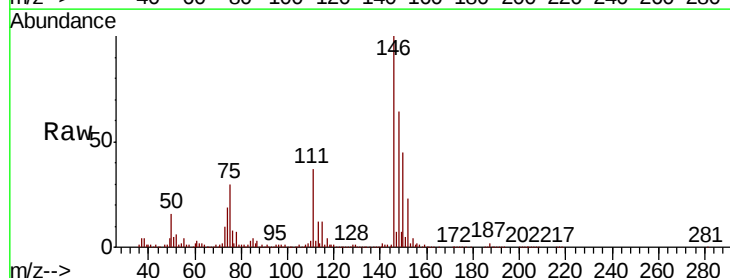
Instrument :
 MSVOA_N
 ClientSampleId :

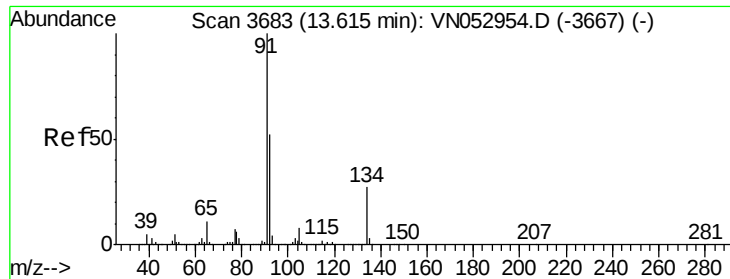
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.1	57.1
148	64.1	32.0	96.0



#88
 1,4-Dichlorobenzene
 Concen: 18.841 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053048.D
 Acq: 20 Dec 2018 11:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.3	18.6	55.8
148	64.4	32.1	96.5





#89

n-Butylbenzene

Concen: 18.471 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

ClientSampleId :

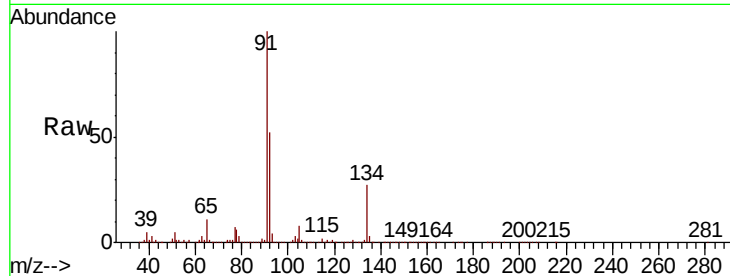
Tot Ion: 91 Resp: 683142

Ion Ratio Lower Upper

91 100

92 52.5 26.3 78.9

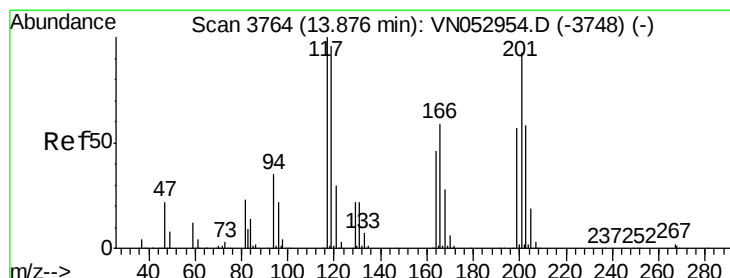
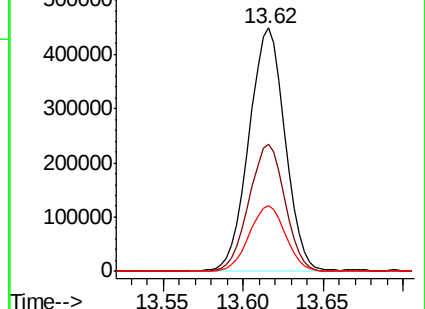
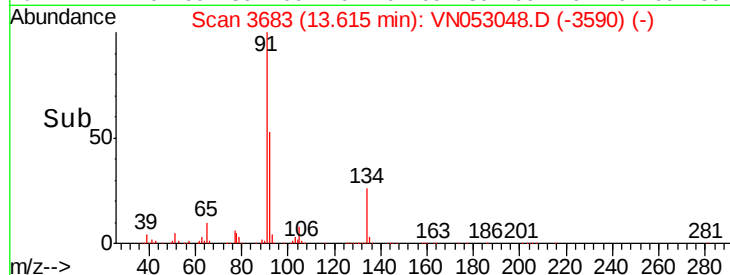
134 27.4 13.3 39.8



Abundance Ion 91.00 (90.70 to 91.70): VN052954.D (-3667) (-)

Ion 92.00 (91.70 to 92.70): VN052954.D (-3667) (-)

Ion 134.00 (133.70 to 134.70): VN052954.D (-3667) (-)



#90

Hexachloroethane

Concen: 17.158 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. -0.00 min

Lab File: VN053048.D

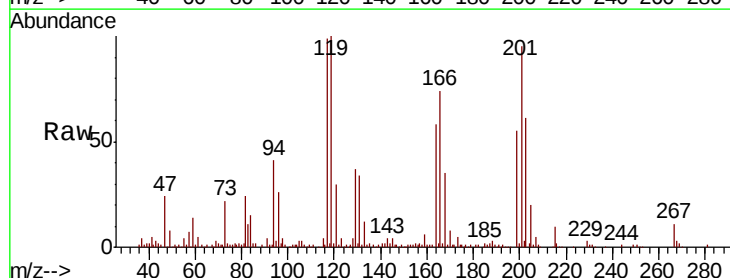
Acq: 20 Dec 2018 11:27

Tgt Ion: 117 Resp: 113196

Ion Ratio Lower Upper

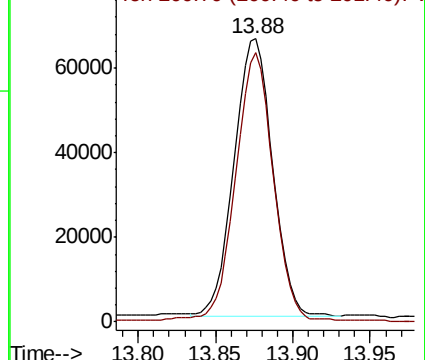
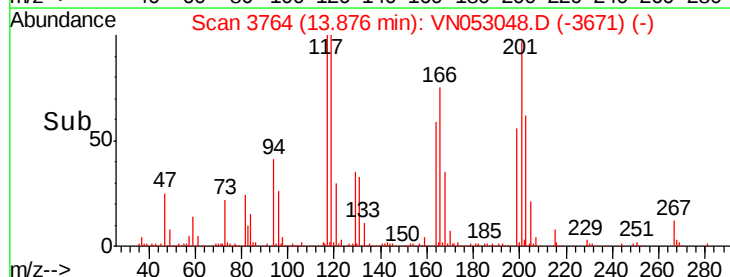
117 100

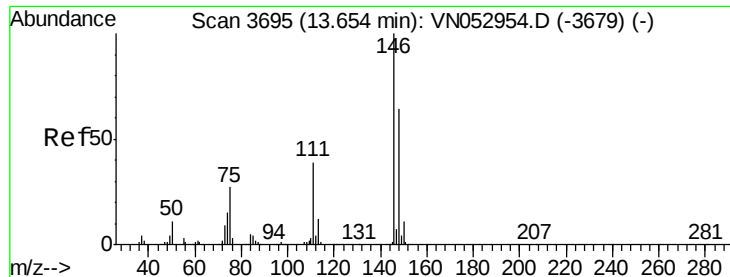
201 94.5 45.7 137.1



Abundance Ion 116.80 (116.50 to 117.50): VN052954.D (-3748) (-)

Ion 200.70 (200.40 to 201.40): VN052954.D (-3748) (-)





#91

1,2-Dichlorobenzene

Concen: 19.623 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

Instrument :

MSVOA_N

ClientSampleId :

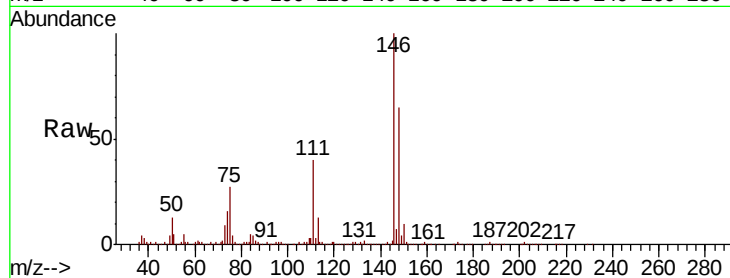
Tot Ion:146 Resp: 433559

Ion Ratio Lower Upper

146 100

111 39.7 19.7 59.0

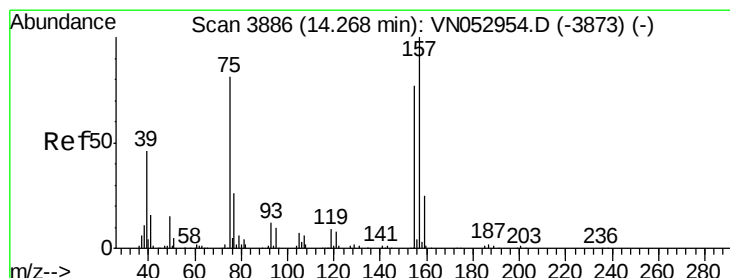
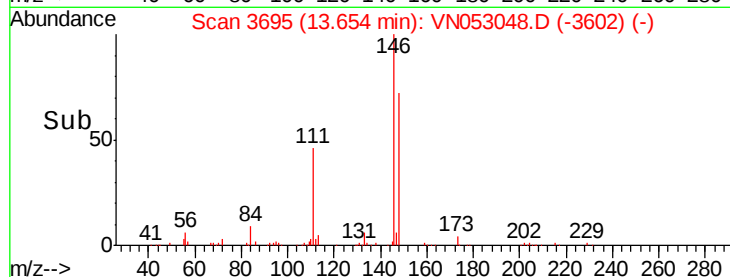
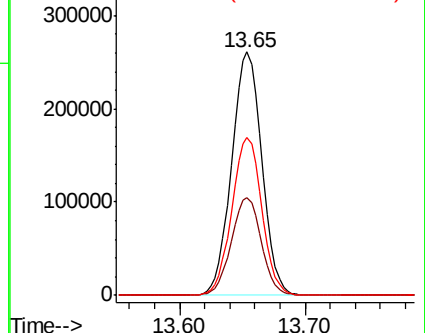
148 64.4 32.0 96.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.852 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

Lab File: VN053048.D

Acq: 20 Dec 2018 11:27

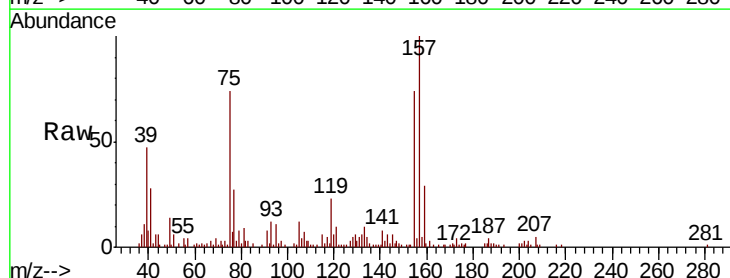
Tgt Ion: 75 Resp: 32631

Ion Ratio Lower Upper

75 100

155 96.0 48.2 144.6

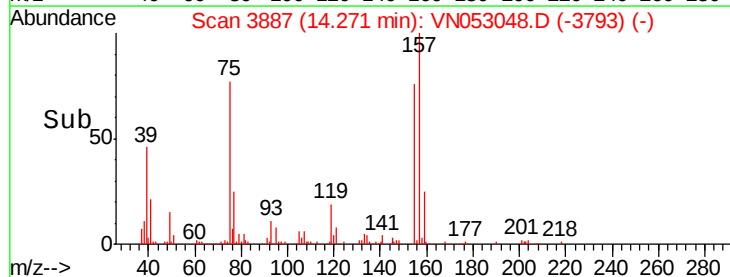
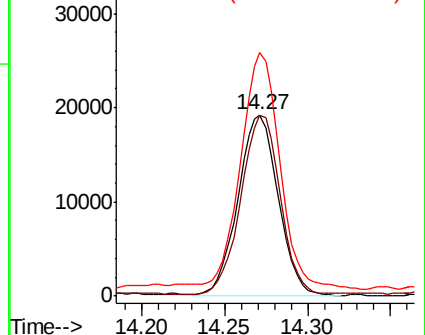
157 127.2 61.2 183.5

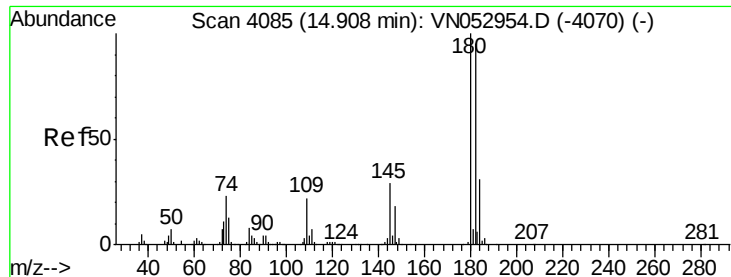


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

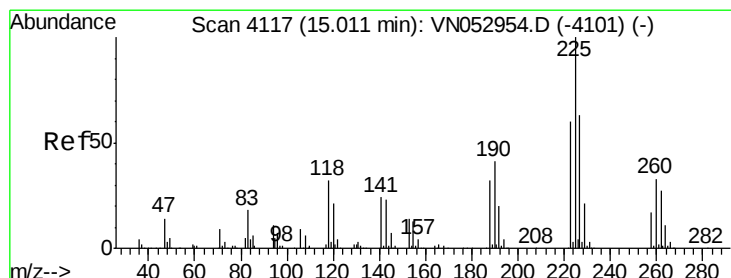
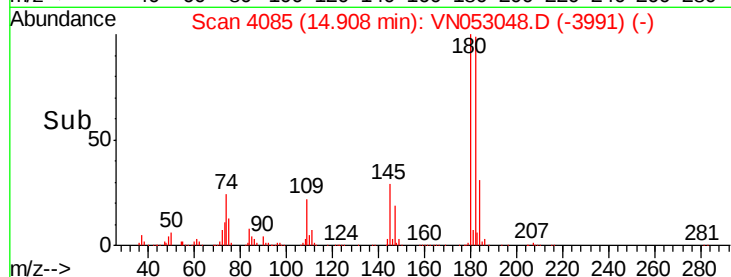
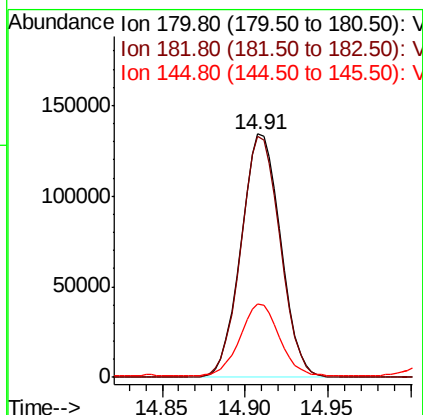
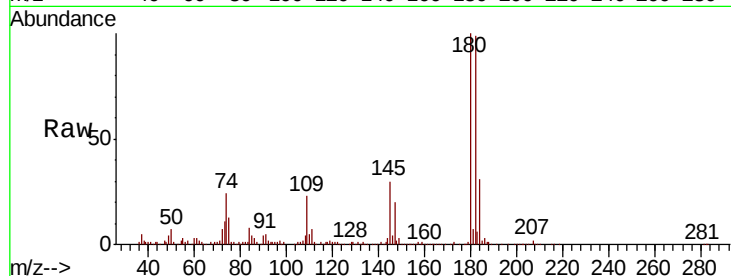




#93
 1,2,4-Trichlorobenzene
 Concen: 19.423 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053048.D
 Acq: 20 Dec 2018 11:27

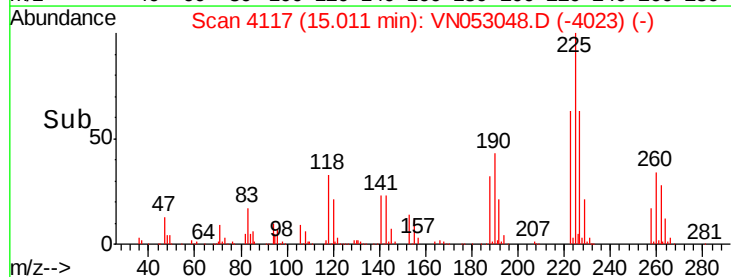
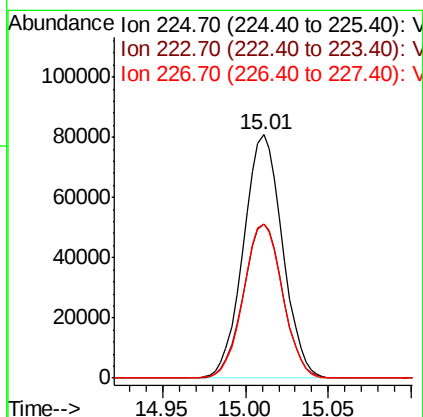
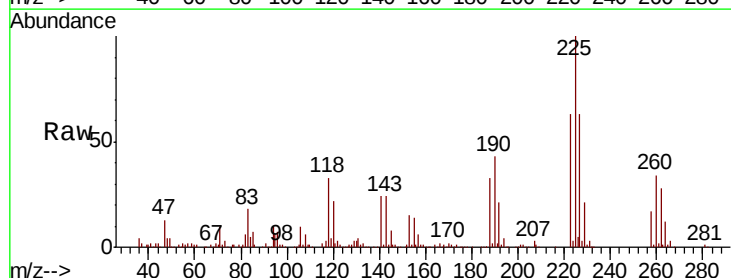
Instrument :
 MSVOA_N
 ClientSampleId :

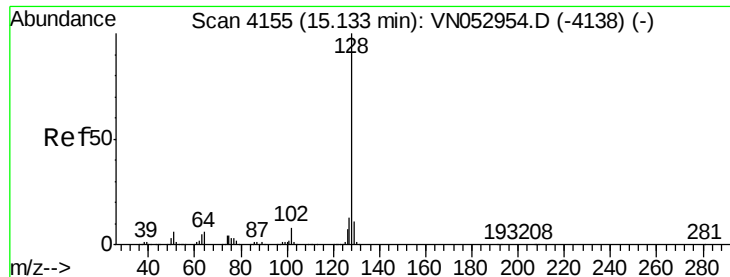
Tot Ion	Ratio	Lower	Upper
180	100		
182	98.0	47.8	143.3
145	29.1	14.2	42.6



#94
 Hexachlorobutadiene
 Concen: 20.099 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053048.D
 Acq: 20 Dec 2018 11:27

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.8	31.5	94.5
227	63.5	31.9	95.7

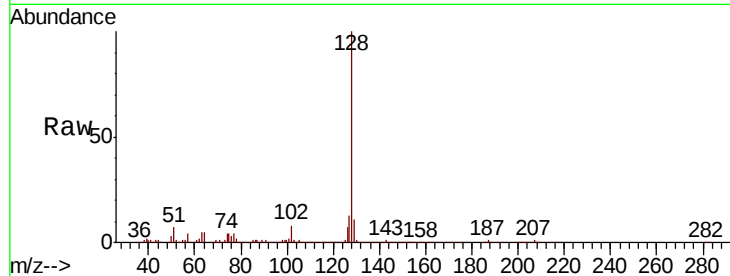




#95
Naphthalene
Concen: 20.277 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.8	8.6	13.0

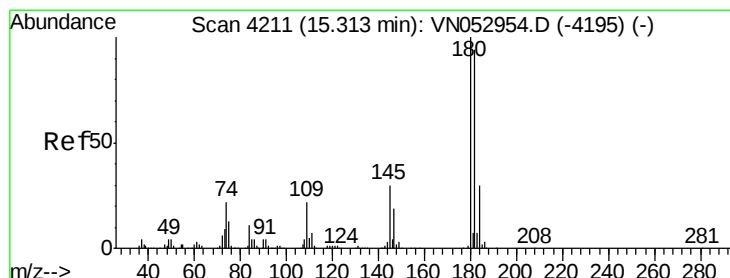
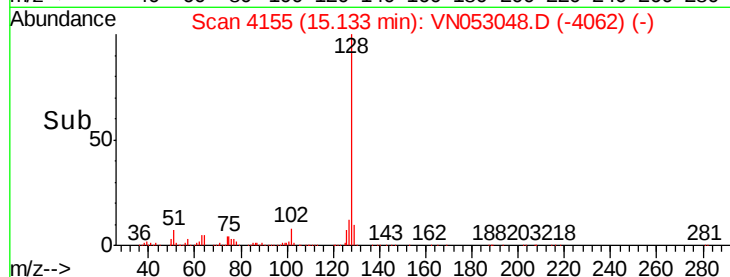
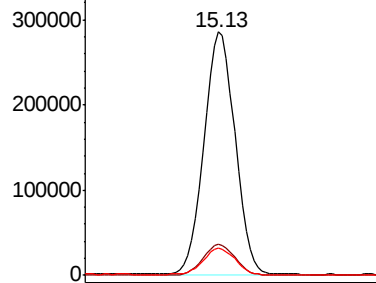


Abundance

Ion 128.00 (127.70 to 128.70): V

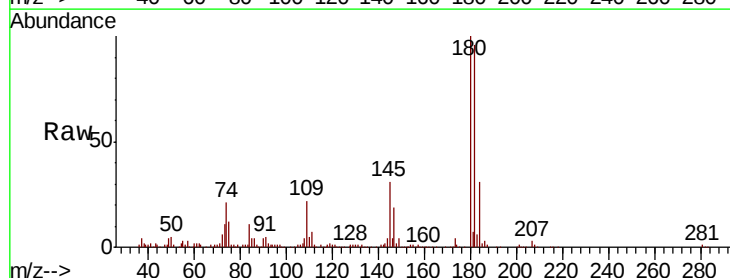
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 19.680 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN053048.D
Acq: 20 Dec 2018 11:27

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.9	143.7
145	31.3	15.0	45.0



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

