

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
 Data File : VN054426.D
 Acq On : 19 Mar 2019 6:52
 Operator : JC/SP
 Sample : VN0318MBSD02
 Misc : 5.00uL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0318MBSD02

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 9:23:07 AM

Quant Time: Mar 19 08:06:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1203976	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1982150	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1725144	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	842689	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	652289	51.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.02%	
35) Dibromofluoromethane	7.59	113	626263	48.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.98%	
50) Toluene-d8	10.09	98	2316381	49.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.12%	
62) 4-Bromofluorobenzene	12.40	95	774162	46.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.72%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	220642	19.337	ug/l	98
3) Chloromethane	2.06	50	217719	19.643	ug/l	99
4) Vinyl Chloride	2.18	62	227658	17.970	ug/l	99
5) Bromomethane	2.57	94	148095	16.878	ug/l	99
6) Chloroethane	2.71	64	135368	17.660	ug/l	99
7) Trichlorofluoromethane	3.02	101	294905	17.509	ug/l	99
8) Diethyl Ether	3.41	74	155254	20.227	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	236154	18.710	ug/l	99
10) Methyl Iodide	3.94	142	332433	19.488	ug/l	100
11) Tert butyl alcohol	4.82	59	90020	102.698	ug/l	100
12) 1,1-Dichloroethene	3.73	96	242736	19.407	ug/l	98
13) Acrolein	3.61	56	44811	53.949	ug/l	99
14) Allyl chloride	4.32	41	320700	19.984	ug/l	93
15) Acrylonitrile	4.99	53	444259	123.384	ug/l	98
16) Acetone	3.82	43	272306	74.380	ug/l	98
17) Carbon Disulfide	4.04	76	497490	15.866	ug/l	100
18) Methyl Acetate	4.33	43	205629	27.762	ug/l	97
19) Methyl tert-butyl Ether	5.05	73	733885	23.671	ug/l	99
20) Methylene Chloride	4.54	84	273798	22.777	ug/l	95
21) trans-1,2-Dichloroethene	5.03	96	257091	21.452	ug/l	97
22) Diisopropyl ether	5.96	45	735484	22.963	ug/l	96
23) Vinyl Acetate	5.90	43	2453761	103.905	ug/l	98
24) 1,1-Dichloroethane	5.85	63	468603	22.786	ug/l	99
25) 2-Butanone	6.85	43	479386	111.566	ug/l	98
26) 2,2-Dichloropropane	6.82	77	205817	11.380	ug/l	93
27) cis-1,2-Dichloroethene	6.83	96	307971	23.035	ug/l	94
28) Bromochloromethane	7.19	49	180302	21.446	ug/l	98
29) Tetrahydrofuran	7.22	42	329181	119.150	ug/l	98
30) Chloroform	7.37	83	485674	22.632	ug/l	99
31) Cyclohexane	7.65	56	411009	20.656	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	395297	20.396	ug/l	99
36) 1,1-Dichloropropene	7.79	75	345143	18.908	ug/l	99
37) Ethyl Acetate	6.94	43	213059	20.314	ug/l	95
38) Carbon Tetrachloride	7.77	117	340321	17.778	ug/l	99

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 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	393654	17.528	ug/l	99
40) Benzene	8.04	78	1081987	20.714	ug/l	100
41) Methacrylonitrile	7.18	41	116706	19.488	ug/l	92
42) 1,2-Dichloroethane	8.12	62	338925	19.218	ug/l	98
43) Isopropyl Acetate	8.17	43	354285	19.244	ug/l	96
44) Trichloroethene	8.83	130	323174	19.916	ug/l	98
45) 1,2-Dichloropropane	9.12	63	283754	21.877	ug/l	98
46) Dibromomethane	9.21	93	178793	20.402	ug/l	99
47) Bromodichloromethane	9.40	83	334192	19.022	ug/l	98
48) Methyl methacrylate	9.20	41	187027	20.018	ug/l	91
49) 1,4-Dioxane	9.20	88	62021	469.310	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	1039018	106.645	ug/l	95
52) Toluene	10.16	92	684670	20.672	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	281375	15.432	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	365759	17.865	ug/l	93
55) 1,1,2-Trichloroethane	10.56	97	259144	21.428	ug/l	99
56) Ethyl methacrylate	10.43	69	312607	21.679	ug/l #	91
57) 1,3-Dichloropropane	10.71	76	420364	21.258	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	618039	108.969	ug/l	100
59) 2-Hexanone	10.75	43	657588	101.436	ug/l	95
60) Dibromochloromethane	10.90	129	256153	18.818	ug/l	100
61) 1,2-Dibromoethane	11.01	107	256610	20.880	ug/l	99
64) Tetrachloroethene	10.63	164	334526	20.056	ug/l	99
65) Chlorobenzene	11.43	112	782596	20.660	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	275283	20.005	ug/l	99
67) Ethyl Benzene	11.51	91	1281220	20.404	ug/l	99
68) m/p-Xylenes	11.62	106	994345	40.516	ug/l	99
69) o-Xylene	11.95	106	505892	21.146	ug/l	97
70) Styrene	11.96	104	793116	21.138	ug/l	98
71) Bromoform	12.13	173	165863	17.419	ug/l #	96
73) Isopropylbenzene	12.25	105	1318896	19.562	ug/l	100
74) N-amyl acetate	12.07	43	297623	19.888	ug/l	92
75) 1,1,2,2-Tetrachloroethane	12.50	83	297668	20.723	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	303931m	24.526	ug/l	
77) Bromobenzene	12.53	156	2411096	135.147	ug/l #	5
78) n-propylbenzene	12.59	91	1374584	18.790	ug/l	99
79) 2-Chlorotoluene	12.67	91	837967	19.051	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	1140325	20.334	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	43347	11.958	ug/l #	82
82) 4-Chlorotoluene	12.77	91	827881	18.849	ug/l	97
83) tert-Butylbenzene	12.99	119	973395	18.858	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1058310	19.236	ug/l	97
85) sec-Butylbenzene	13.17	105	1217442	18.187	ug/l	100
86) p-Isopropyltoluene	13.29	119	1088881	18.541	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	572324	19.038	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	560094	18.966	ug/l	99
89) n-Butylbenzene	13.61	91	784708	17.586	ug/l	98
90) Hexachloroethane	13.87	117	143608	14.768	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	597810	20.342	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	44528	20.033	ug/l	93

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ALS Vial : 50 Sample Multiplier: 1

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ClientSampleId :
VN0318MBSD02

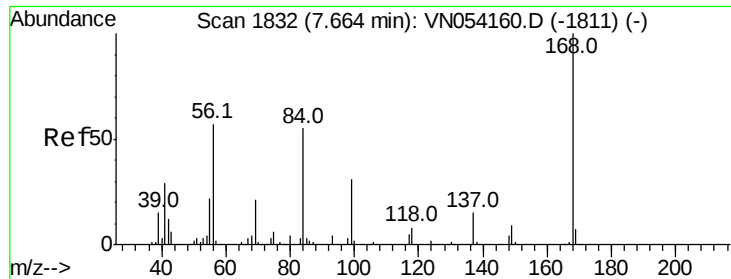
Manual Integrations
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	323074	19.809	ug/l	99
94) Hexachlorobutadiene	15.01	225	173533	15.502	ug/l	99
95) Naphthalene	15.13	128	830017	24.368	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	333954	21.387	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

Tot Ion:168 Resp: 1203976

Ion Ratio Lower Upper

168 100

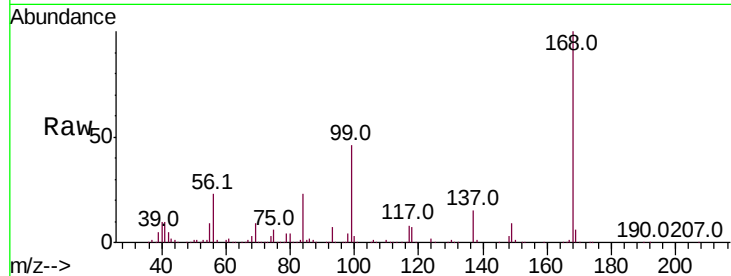
99 44.4 37.1 55.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

500000

400000

300000

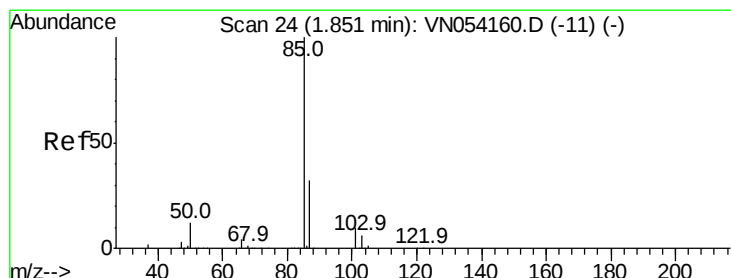
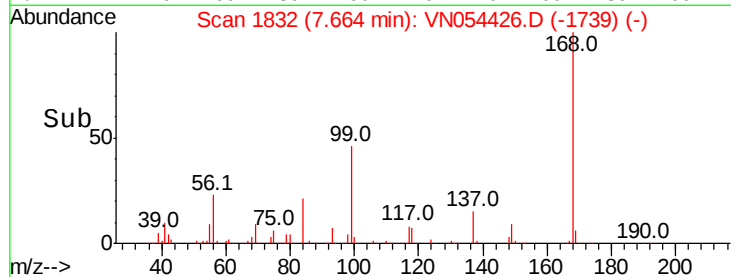
200000

100000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#2

Dichlorodifluoromethane

Concen: 19.337 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN054426.D

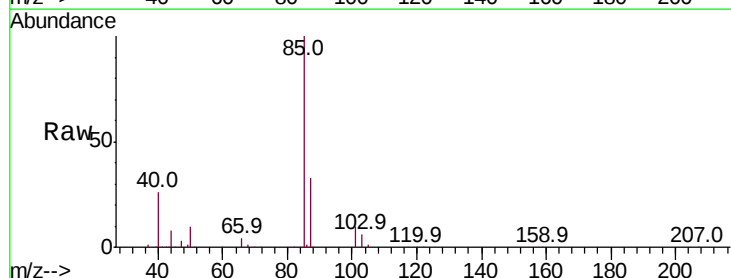
Acq: 19 Mar 2019 6:52

Tgt Ion: 85 Resp: 220642

Ion Ratio Lower Upper

85 100

87 33.2 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

150000

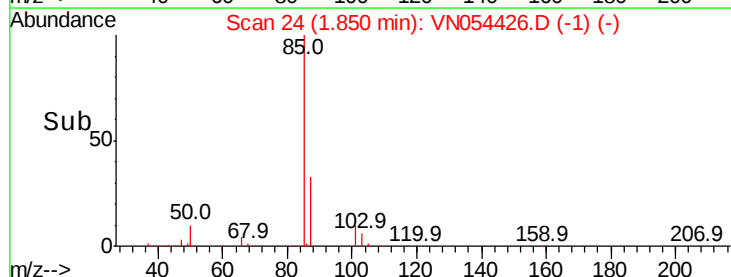
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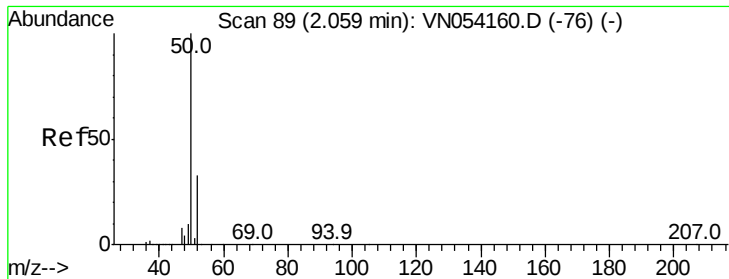
50000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 19.643 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampled :

VN0318MBSD02

Tot Ion: 50 Resp: 217719

Ion Ratio Lower Upper

50 100

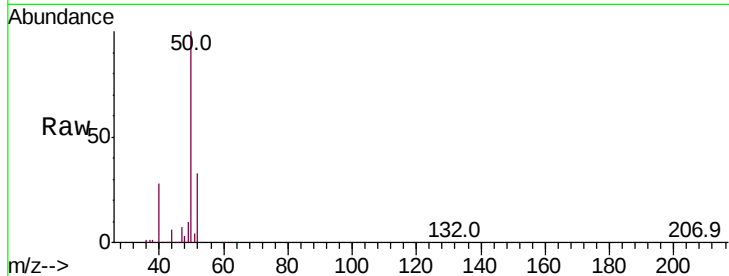
52 33.4 26.4 39.6

Manual Integrations

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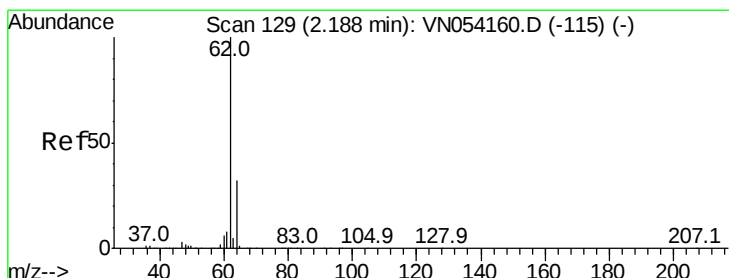
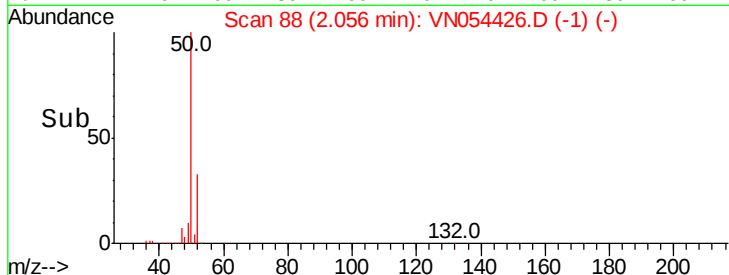
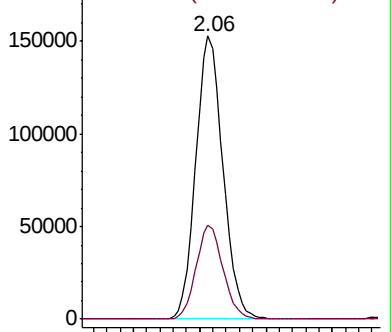
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 17.970 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN054426.D

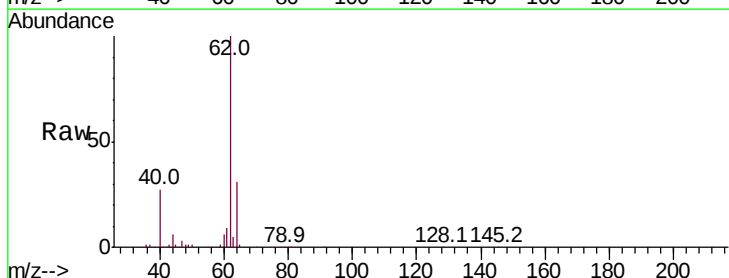
Acq: 19 Mar 2019 6:52

Tgt Ion: 62 Resp: 227658

Ion Ratio Lower Upper

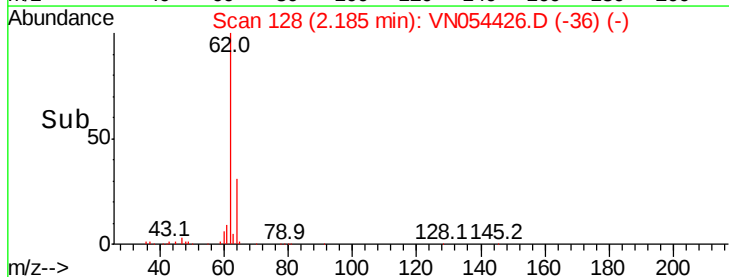
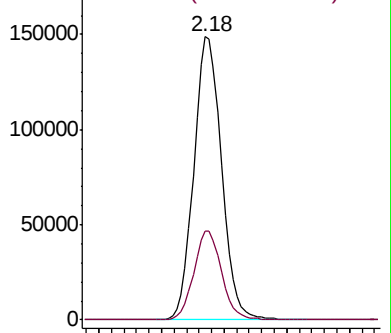
62 100

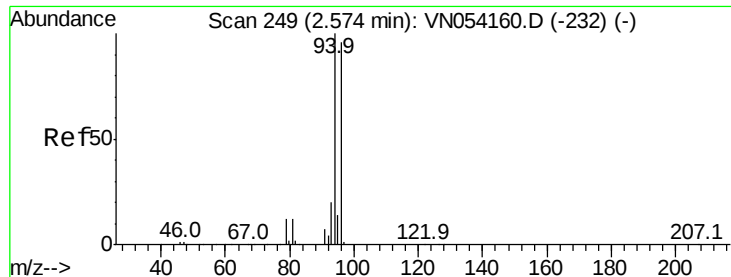
64 31.4 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 16.878 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

Tot Ion: 94 Resp: 148095

Ion Ratio Lower Upper

94 100

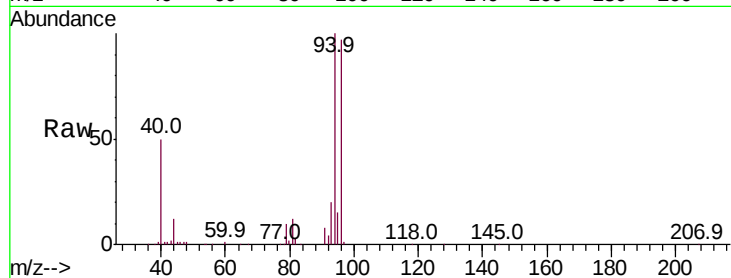
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Manual Integrations

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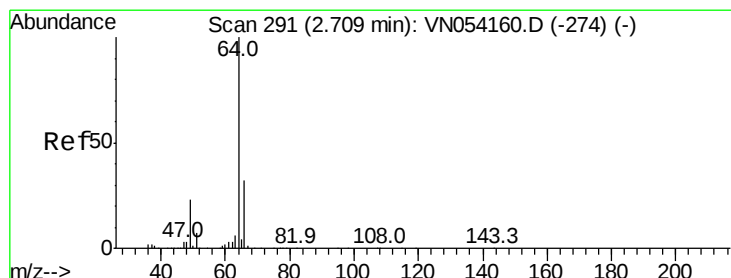
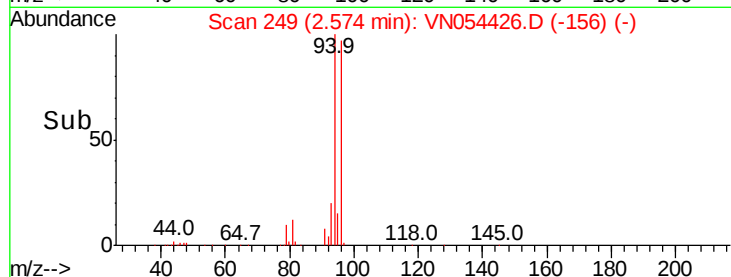
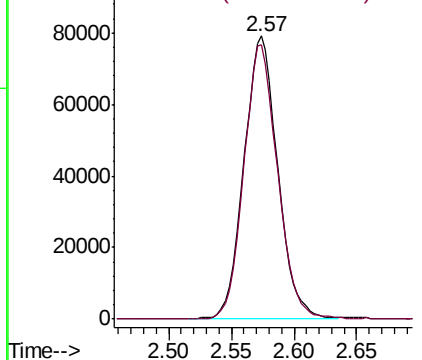
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 17.660 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN054426.D

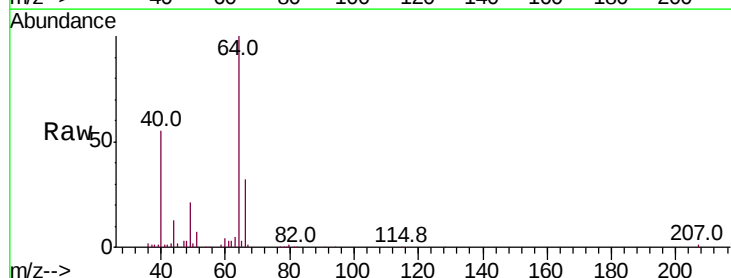
Acq: 19 Mar 2019 6:52

Tgt Ion: 64 Resp: 135368

Ion Ratio Lower Upper

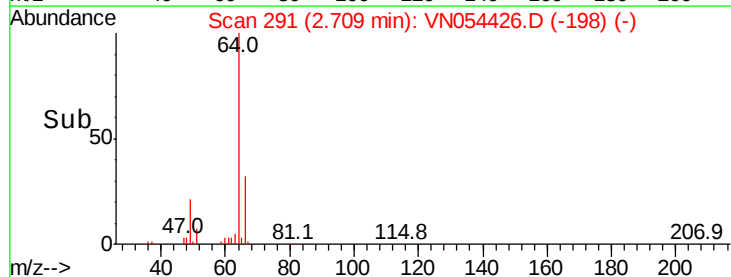
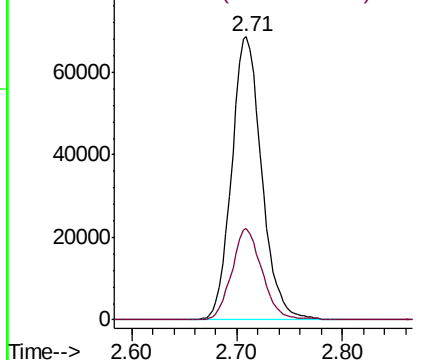
64 100

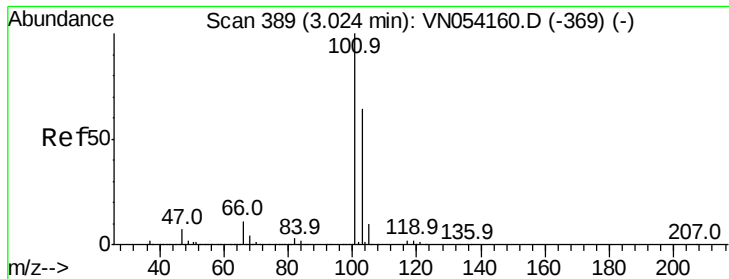
66 32.4 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

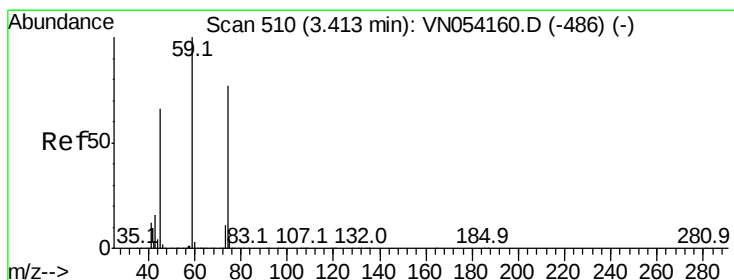
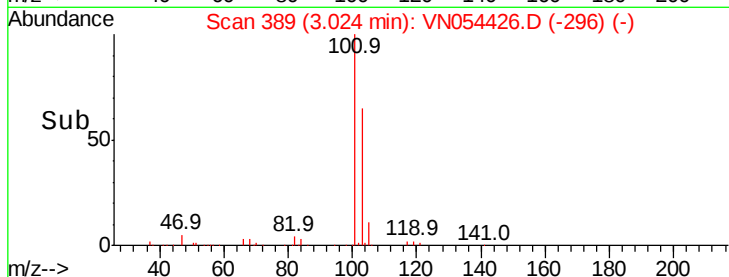
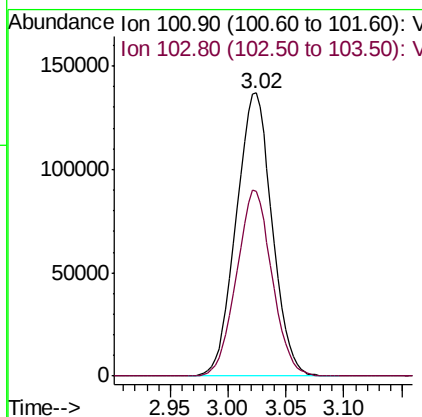
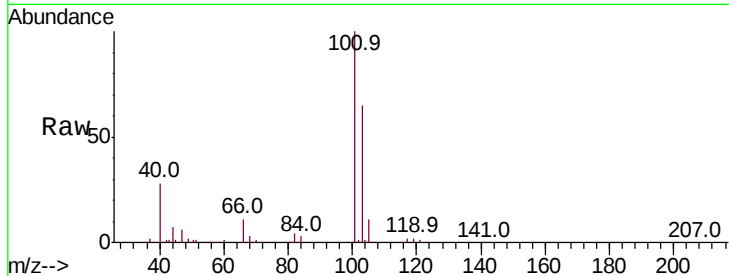
Trichlorofluoromethane
 Concen: 17.509 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN054426.D
 Acq: 19 Mar 2019 6:52

Instrument :
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 ClientSampleId :
 VN0318MBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.4	51.4	77.2

Manual Integrations
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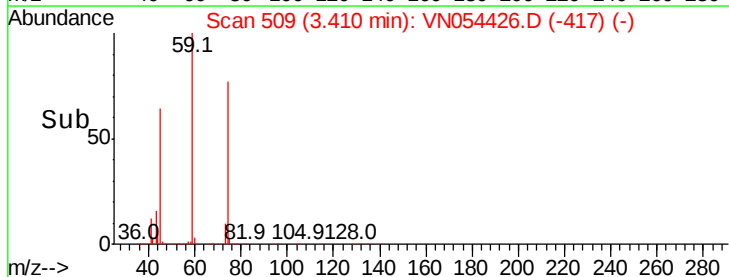
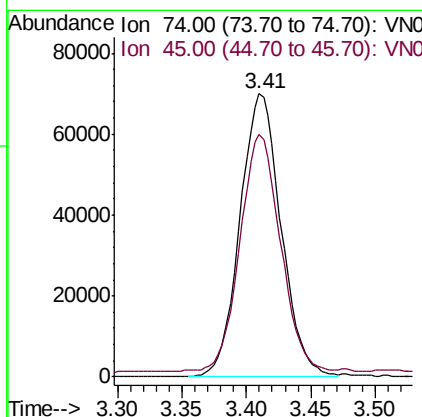
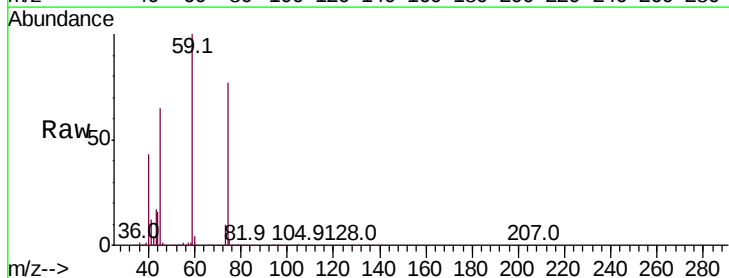
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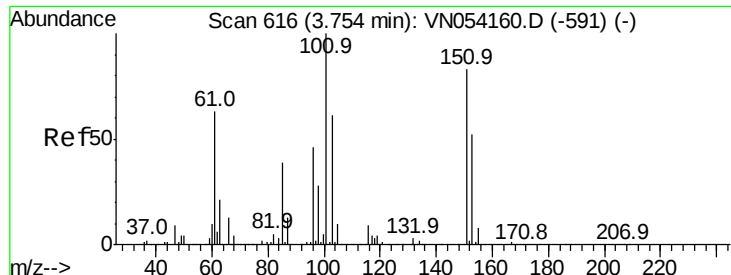


#8

Diethyl Ether
 Concen: 20.227 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN054426.D
 Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Lower	Upper
74	100		
45	82.8	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.710 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

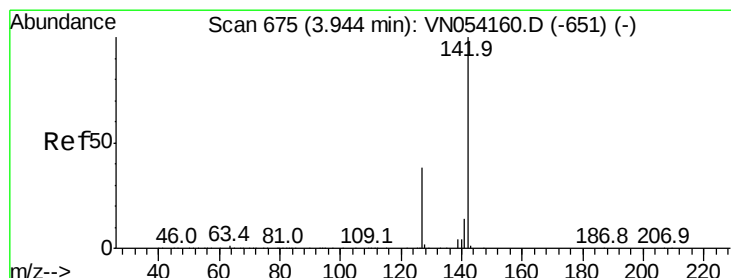
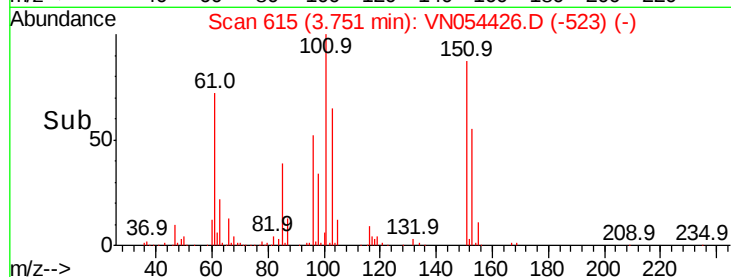
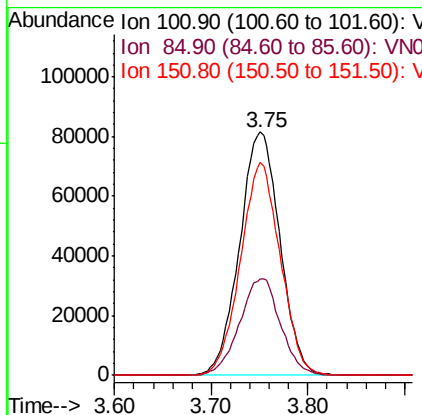
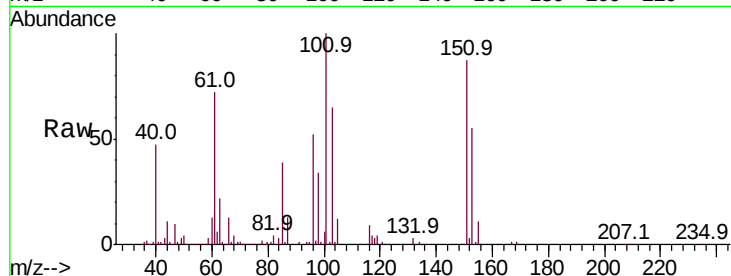
ClientSampled :

VN0318MBSD02

Tot Ion:	101	Resp:	236154
Ion Ratio	Lower	Upper	
101	100		
85	40.2	32.4	48.6
151	86.2	68.2	102.2

Manual Integrations
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#10

Methyl Iodide

Concen: 19.488 ug/l

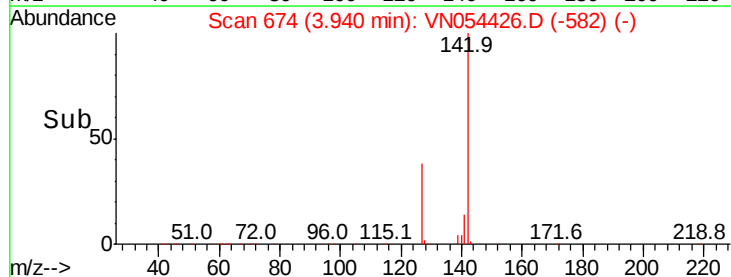
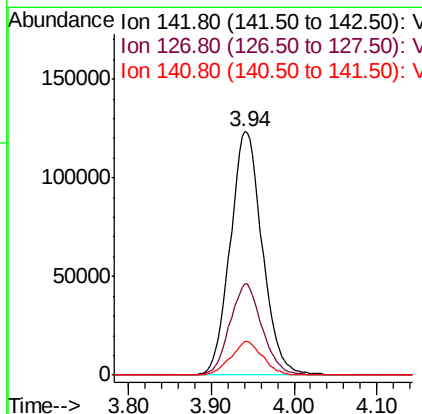
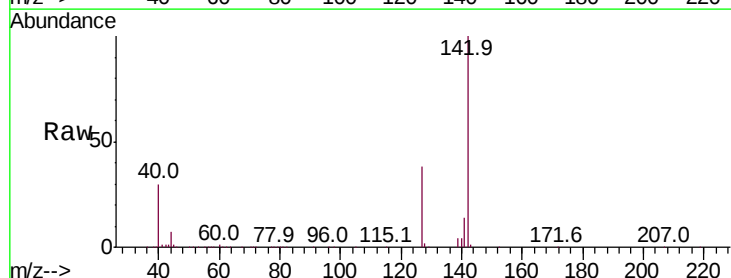
RT: 3.94 min Scan# 674

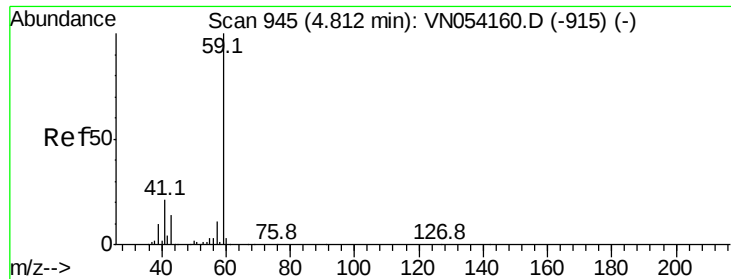
Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Tgt Ion:	142	Resp:	332433
Ion Ratio	Lower	Upper	
142	100		
127	37.8	30.3	45.5
141	13.7	11.2	16.8





#11

Tert butyl alcohol

Concen: 102.698 ug/l

RT: 4.82 min Scan# 948

Delta R.T. 0.01 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

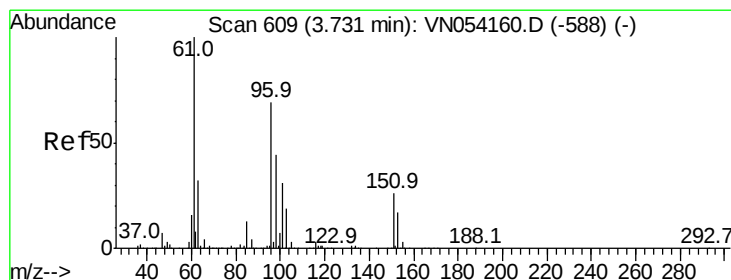
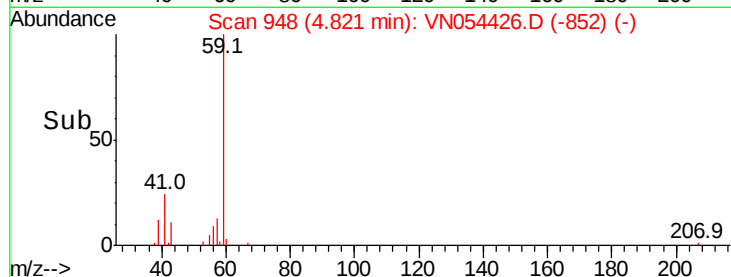
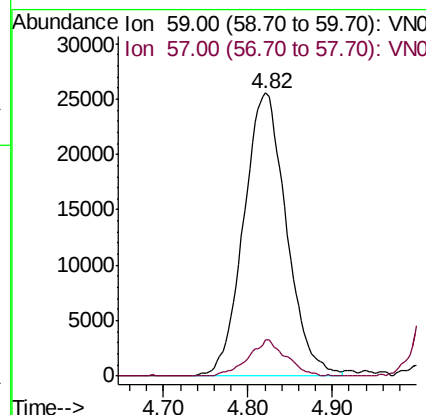
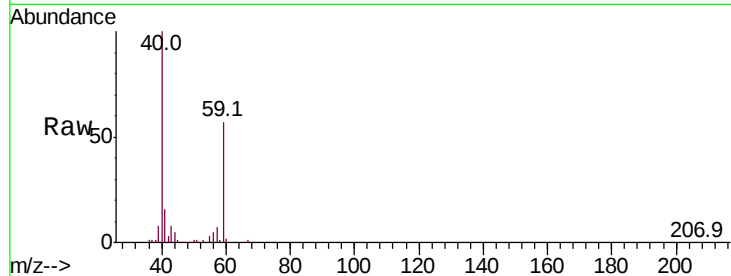
Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

Tot Ion: 59 Resp: 90020

Ion	Ratio	Lower	Upper
59	100		
57	11.3	9.0	13.6

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 19.407 ug/l

RT: 3.73 min Scan# 608

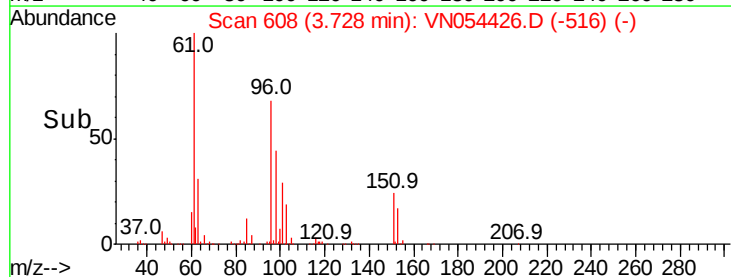
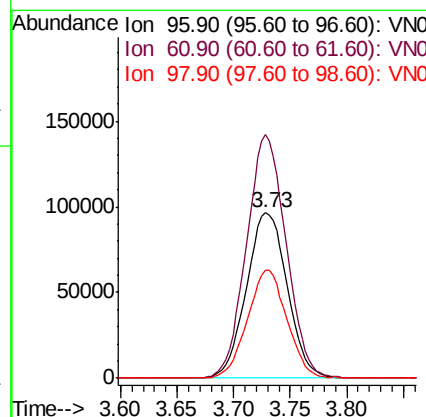
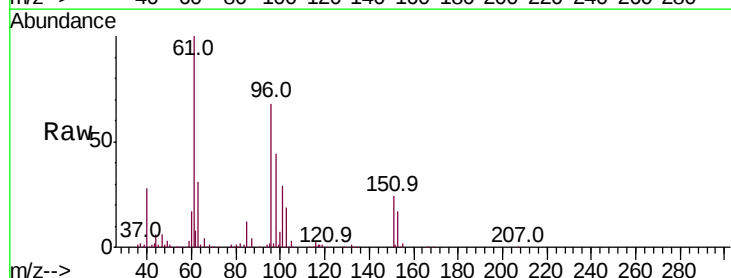
Delta R.T. -0.00 min

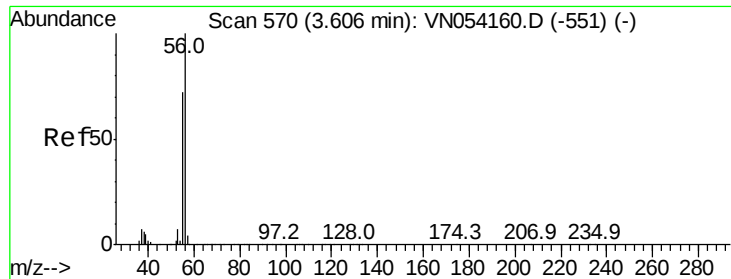
Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Tgt Ion: 96 Resp: 242736

Ion	Ratio	Lower	Upper
96	100		
61	147.5	116.5	174.7
98	65.0	51.0	76.4





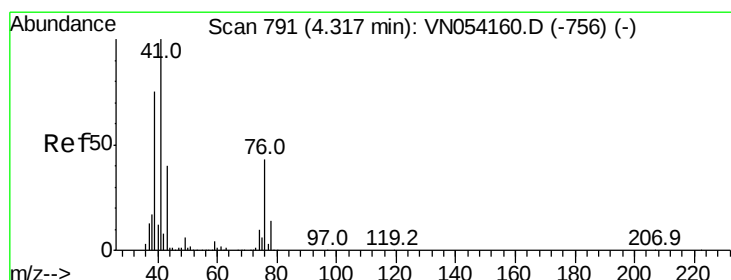
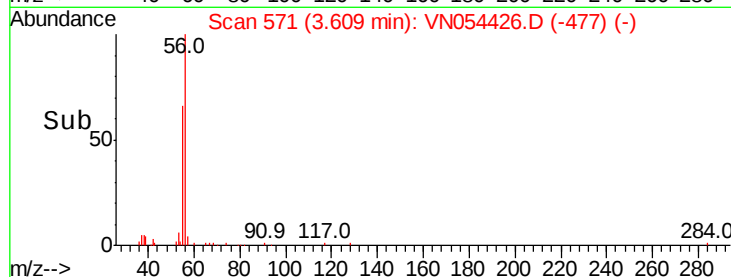
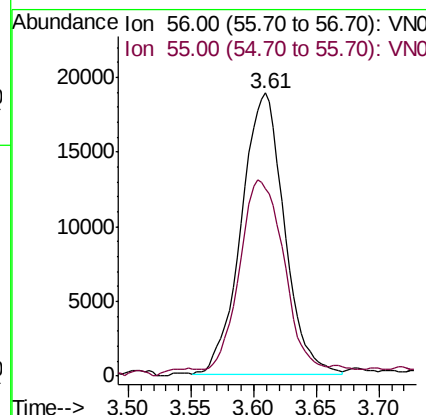
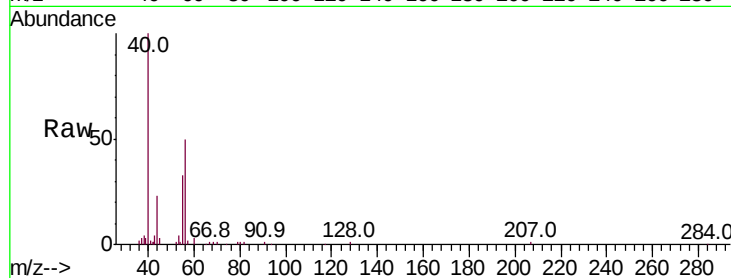
#13
Acrolein
Concen: 53.949 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

Tot Ion	56	Resp	44811
Ion Ratio	Lower	Upper	
56	100		
55	70.0	56.7	85.1

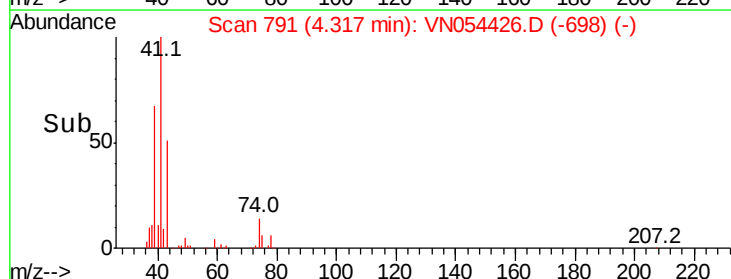
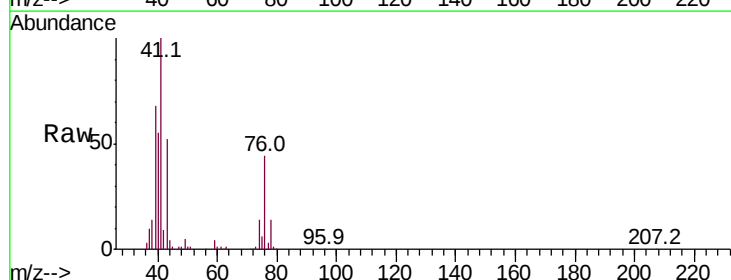
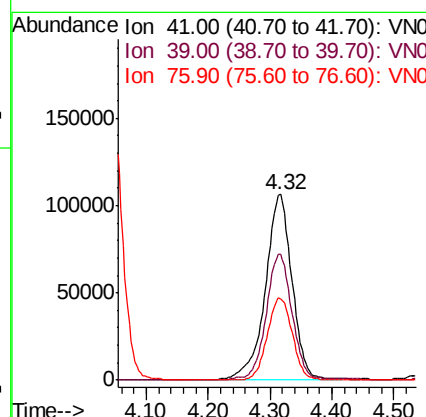
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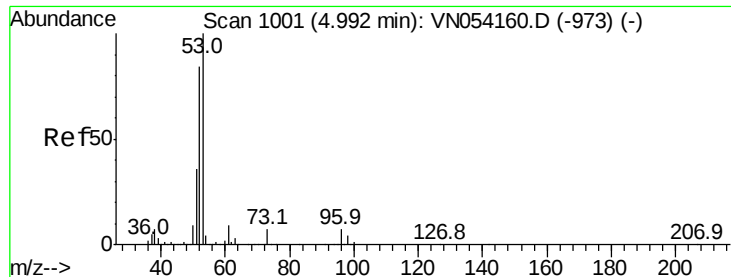
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#14
Allyl chloride
Concen: 19.984 ug/l
RT: 4.32 min Scan# 791
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion	41	Resp	320700
Ion Ratio	Lower	Upper	
41	100		
39	65.4	58.2	87.4
76	41.3	31.7	47.5





#15

Acrylonitrile

Concen: 123.384 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

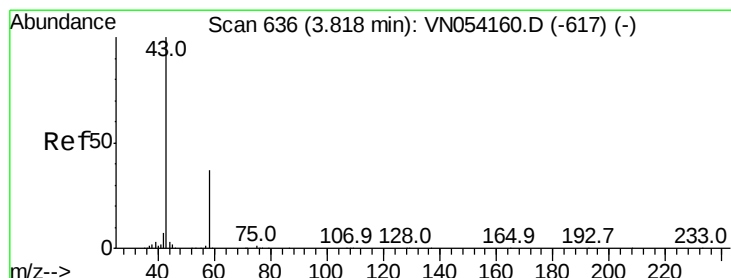
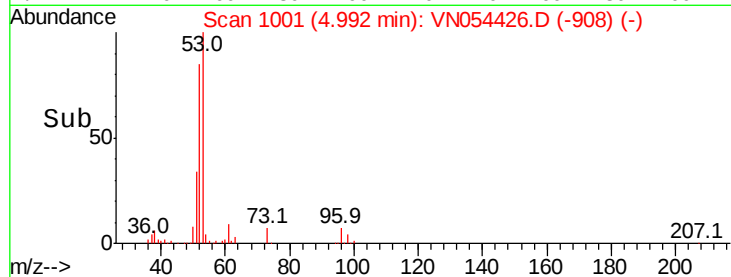
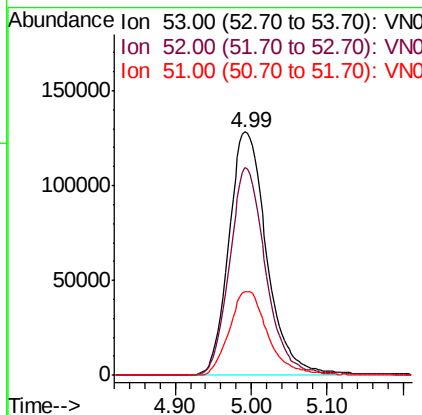
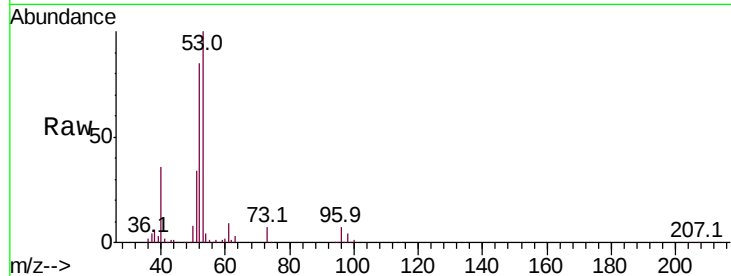
ClientSampleId :

VN0318MBSD02

Tot Ion:	53	Resp:	444259
Ion Ratio	Lower	Upper	
53	100		
52	81.2	66.4	99.6
51	35.2	29.6	44.4

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#16

Acetone

Concen: 74.380 ug/l

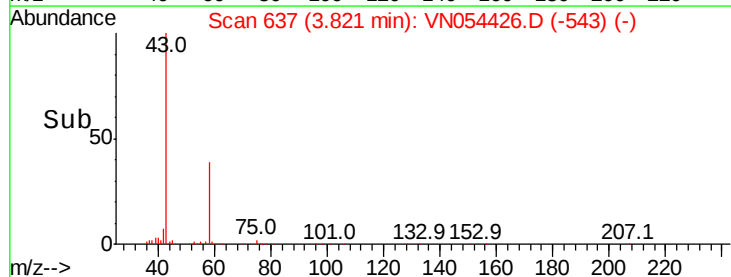
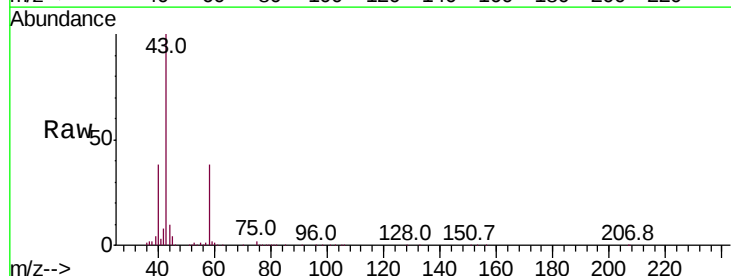
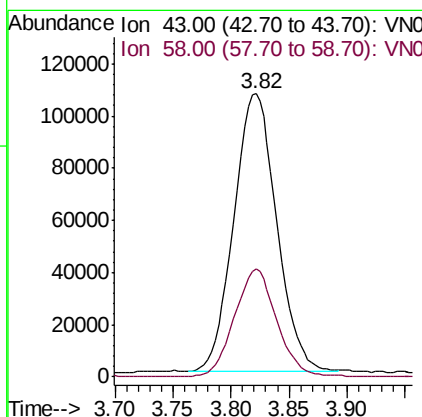
RT: 3.82 min Scan# 637

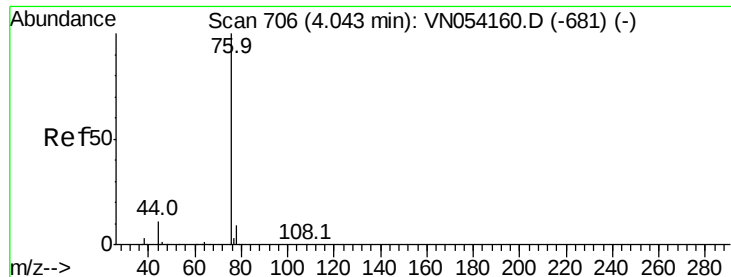
Delta R.T. 0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Tgt Ion:	43	Resp:	272306
Ion Ratio	Lower	Upper	
43	100		
58	38.5	29.9	44.9





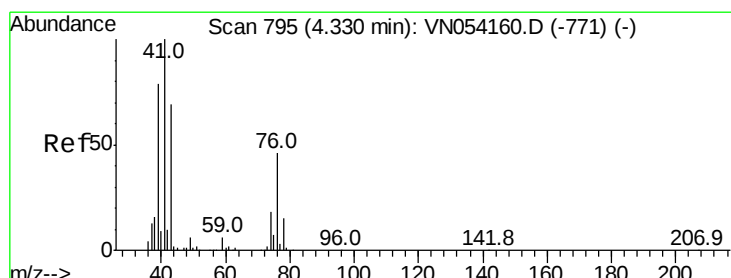
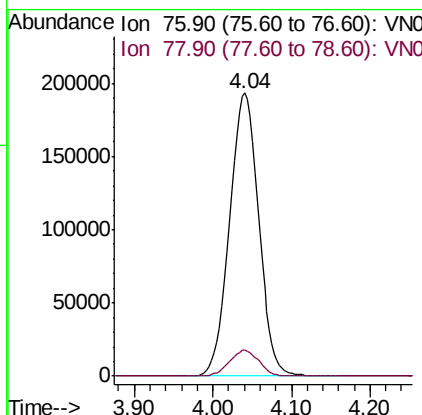
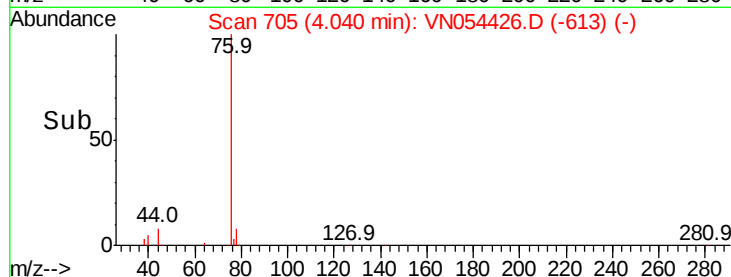
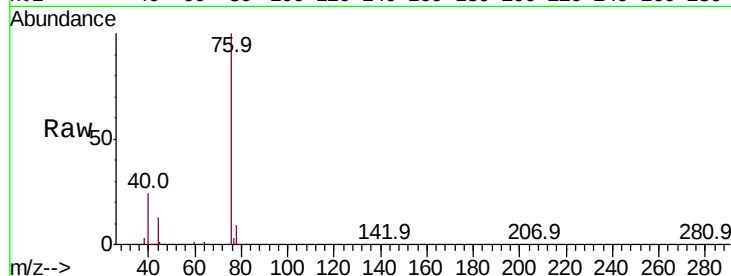
#17
Carbon Disulfide
Concen: 15.866 ug/l
RT: 4.04 min Scan# 705
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.5	11.3

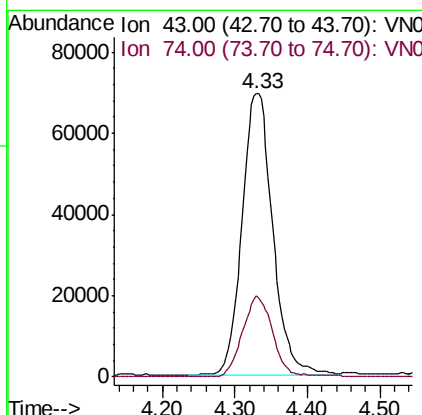
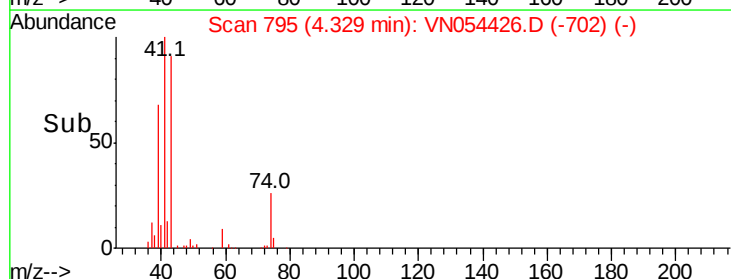
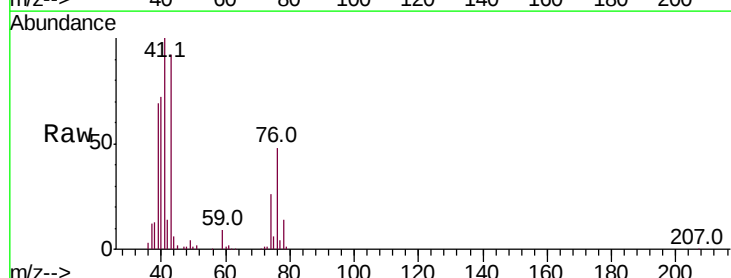
Manual Integrations
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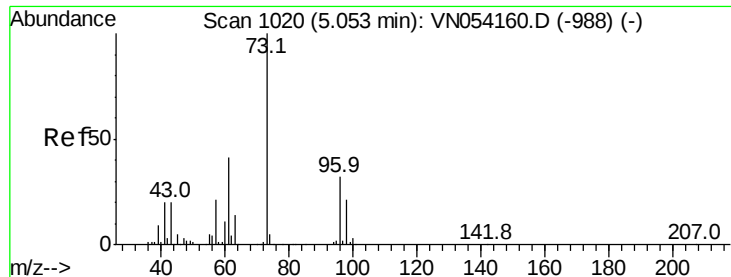
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#18
Methyl Acetate
Concen: 27.762 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Lower	Upper
43	100		
74	27.4	20.8	31.2





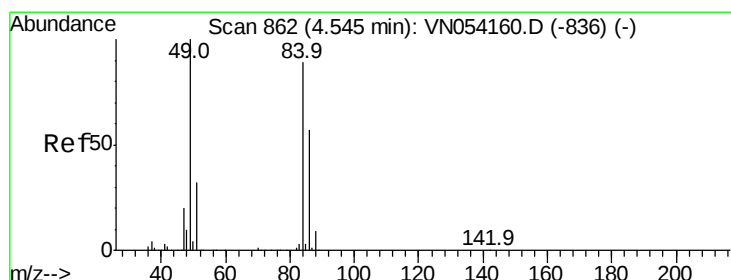
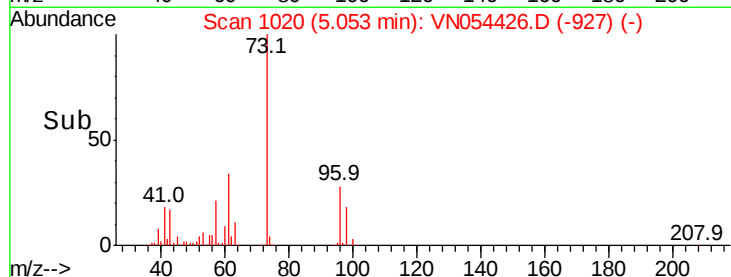
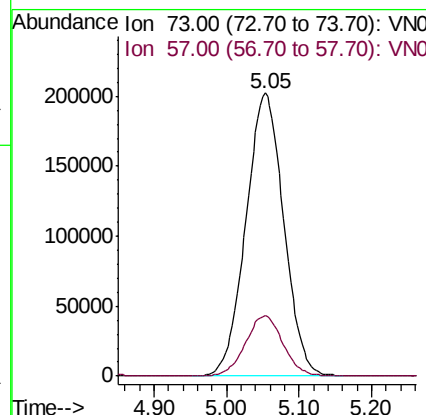
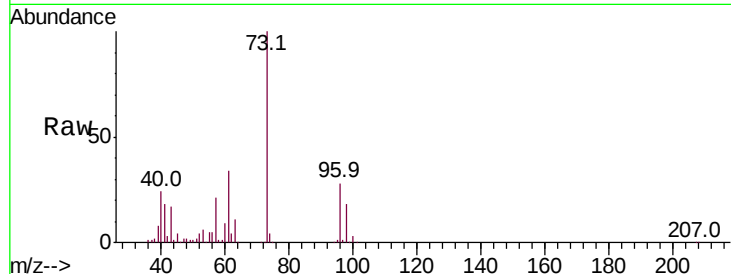
#19
Methyl tert-butyl Ether
Concen: 23.671 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

Tot Ion: 73 Resp: 73385
Ion Ratio Lower Upper
73 100
57 21.4 16.8 25.2

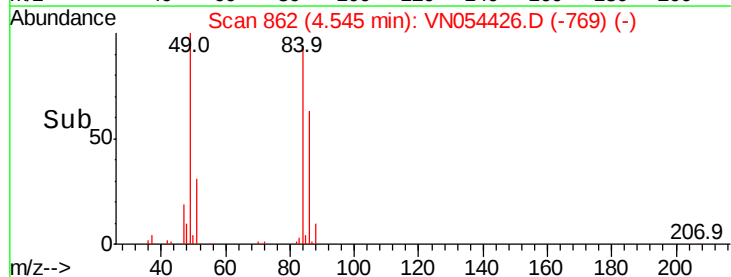
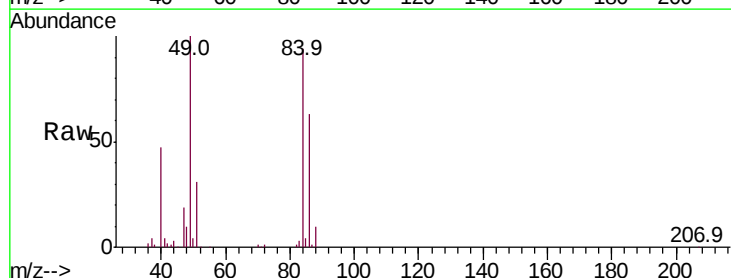
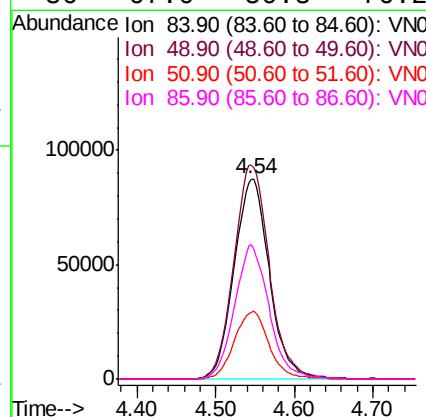
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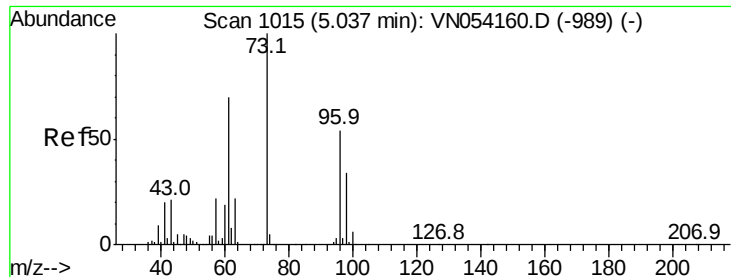
MMDadoda
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#20
Methylene Chloride
Concen: 22.777 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion: 84 Resp: 273798
Ion Ratio Lower Upper
84 100
49 106.7 89.7 134.5
51 33.6 28.2 42.4
86 67.0 50.8 76.2





#21

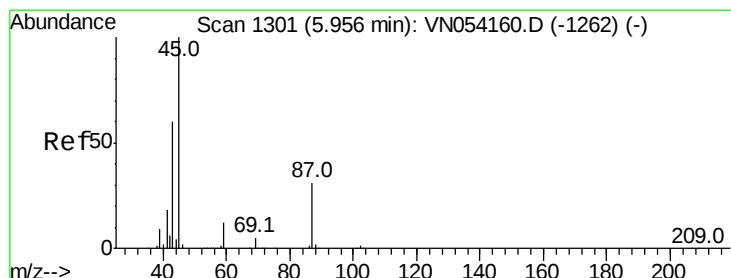
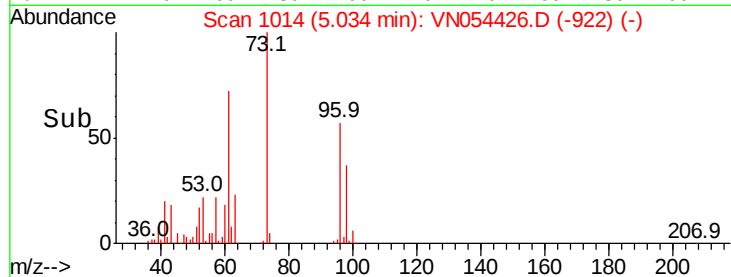
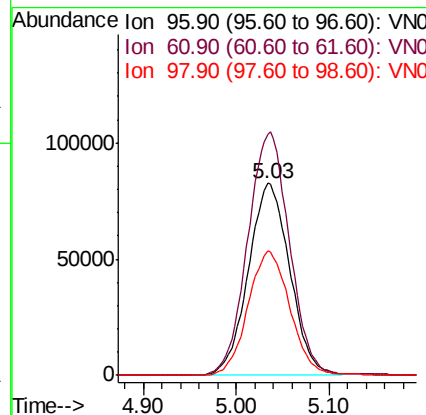
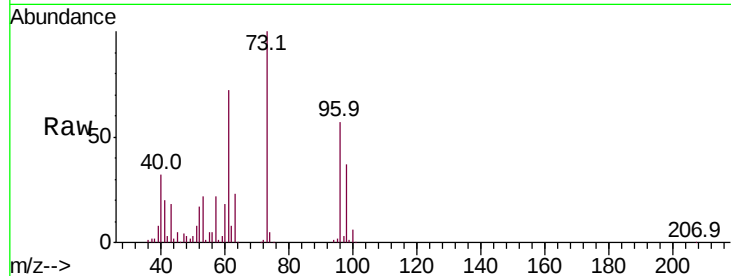
trans-1,2-Dichloroethene
Concen: 21.452 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleID :
VN0318MBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	125.7	102.8	154.2
98	64.7	50.0	75.0

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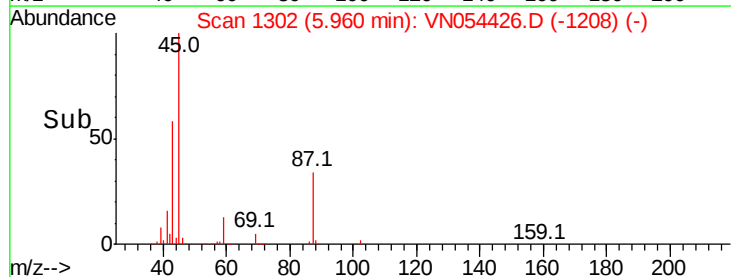
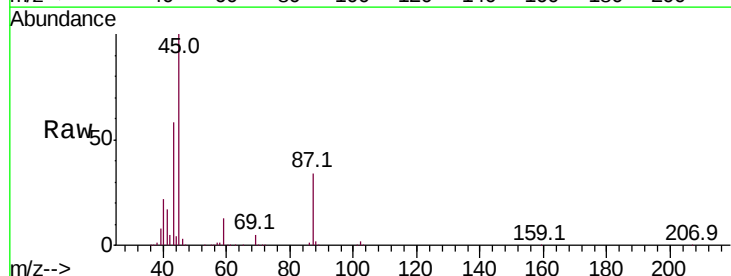
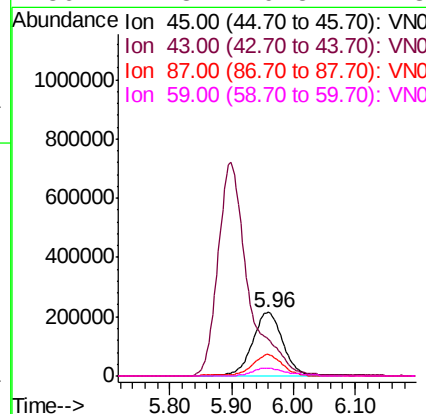
MMDadoda
3/19/2019 9:23:07 AM

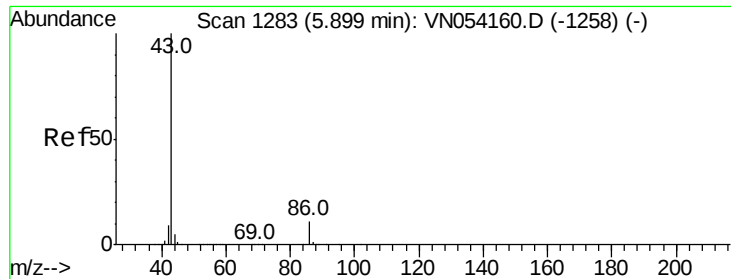


#22

Diisopropyl ether
Concen: 22.963 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Lower	Upper
45	100		
43	56.9	48.2	72.2
87	33.8	24.9	37.3
59	12.8	9.5	14.3





#23

Vinyl Acetate

Concen: 103.905 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

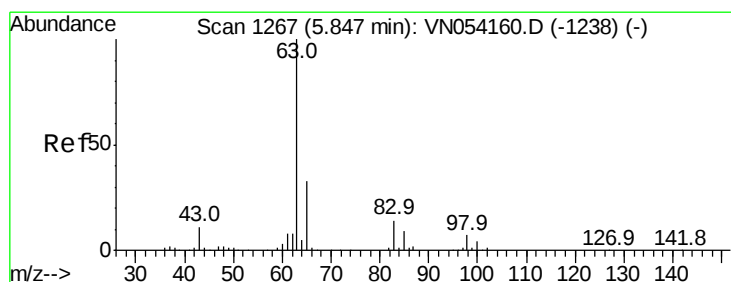
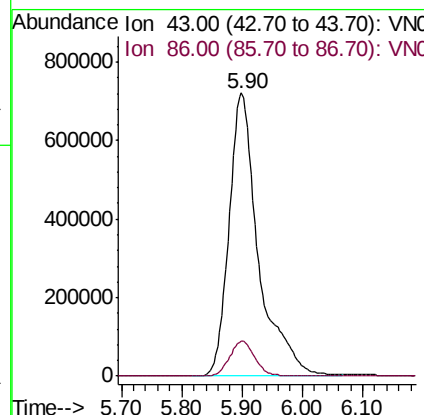
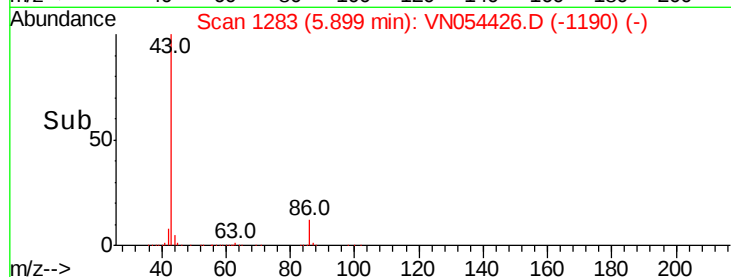
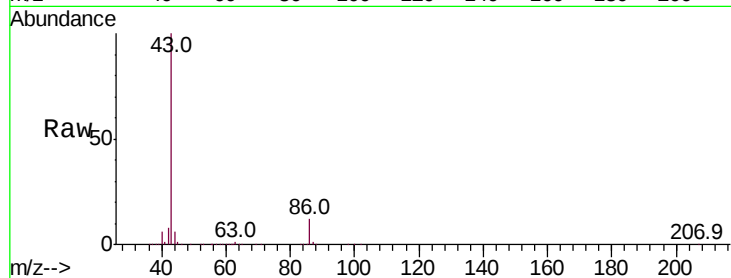
Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

Tot Ion: 43 Resp: 2453761

Ion	Ratio	Lower	Upper
43	100		
86	12.2	9.1	13.7

Manual Integrations
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MMDadoda
3/19/2019 9:23:07 AM



#24

1,1-Dichloroethane

Concen: 22.786 ug/l

RT: 5.85 min Scan# 1267

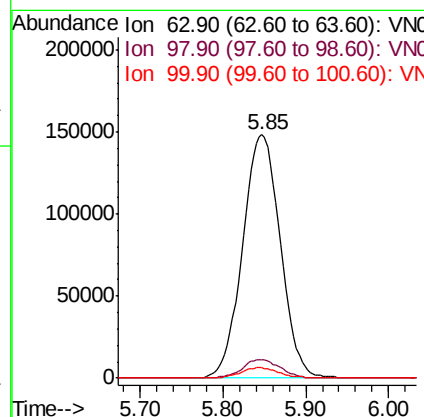
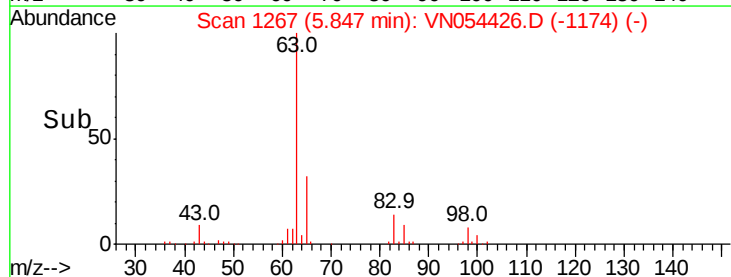
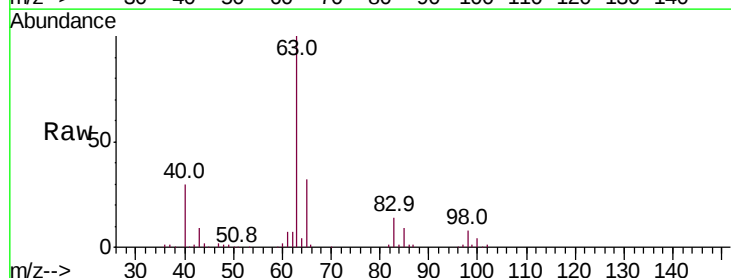
Delta R.T. -0.00 min

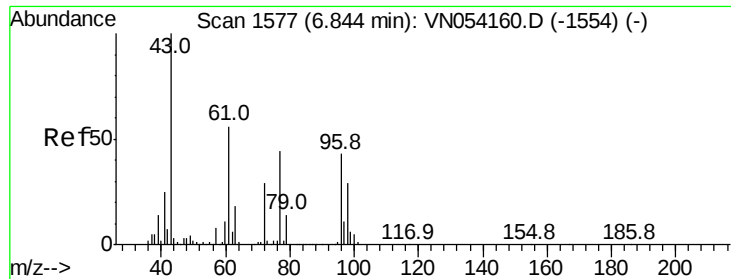
Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Tgt Ion: 63 Resp: 468603

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.5	10.5
100	4.2	2.0	6.0





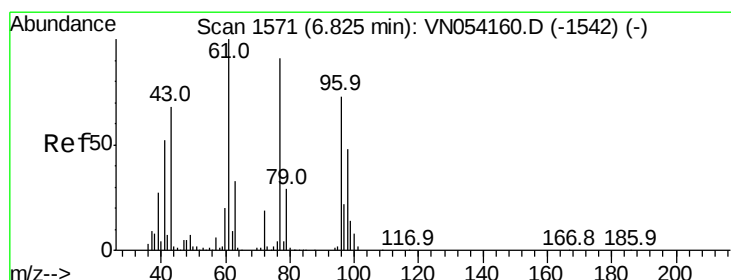
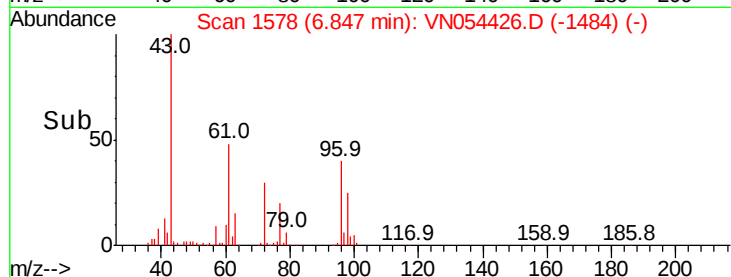
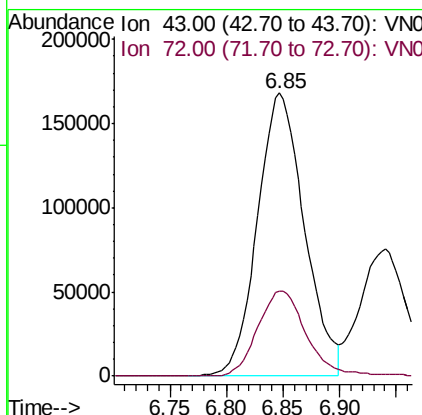
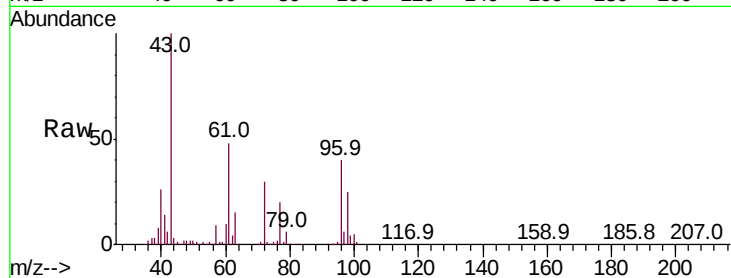
#25
2-Butanone
Concen: 111.566 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

Tot Ion: 43 Resp: 479386
Ion Ratio Lower Upper
43 100
72 30.1 23.0 34.6

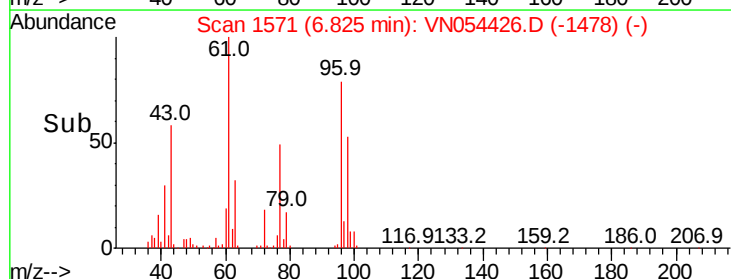
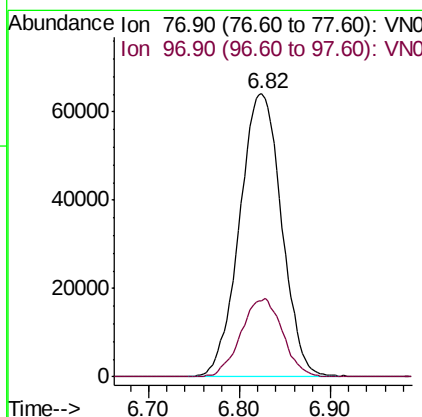
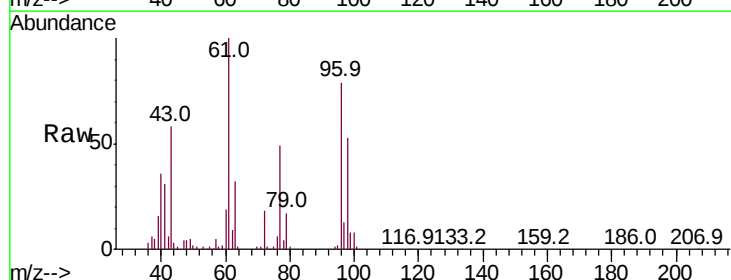
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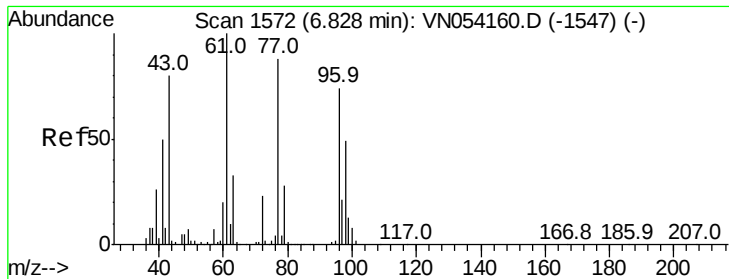
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#26
2,2-Dichloropropane
Concen: 11.380 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion: 77 Resp: 205817
Ion Ratio Lower Upper
77 100
97 27.4 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 23.035 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

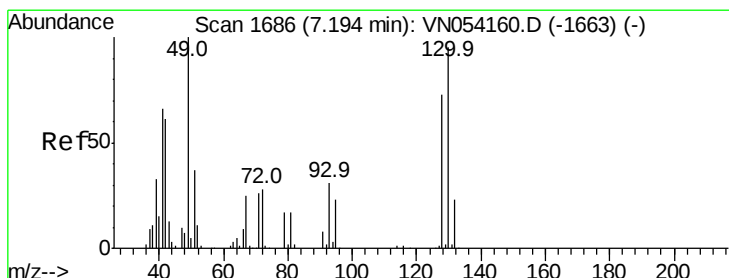
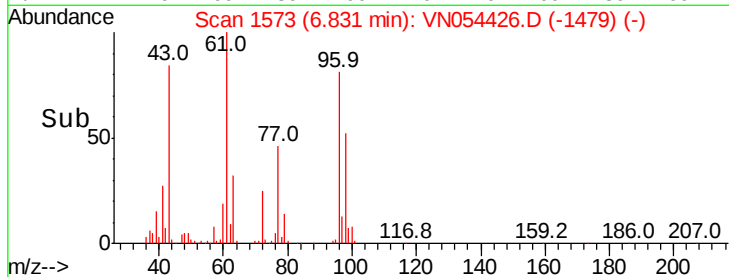
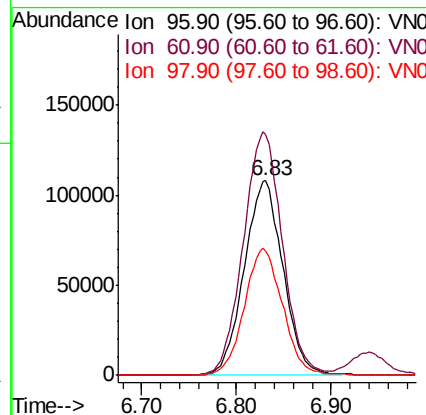
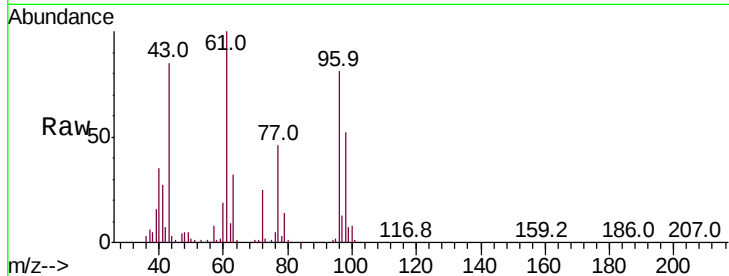
ClientSampleId :

VN0318MBSD02

Tot Ion	96	Resp	307971
Ion	Ratio	Lower	Upper
96	100		
61	125.8	0.0	273.0
98	64.6	0.0	130.6

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#28

Bromochloromethane

Concen: 21.446 ug/l

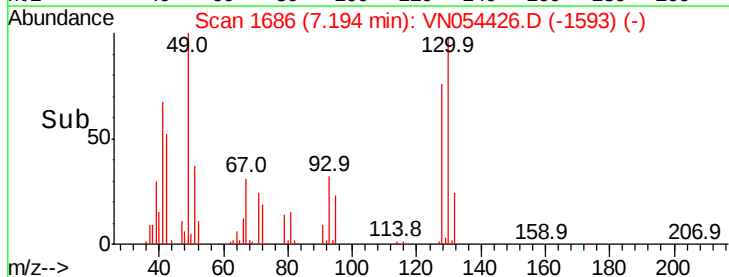
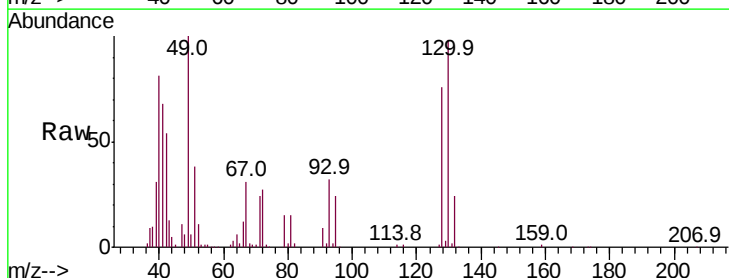
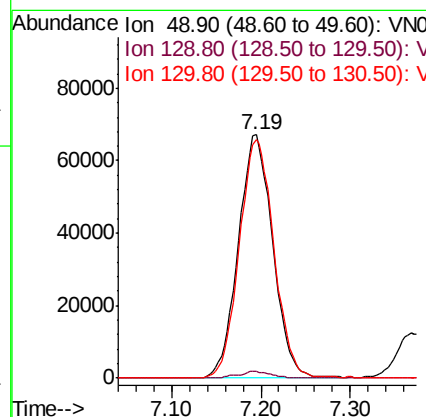
RT: 7.19 min Scan# 1686

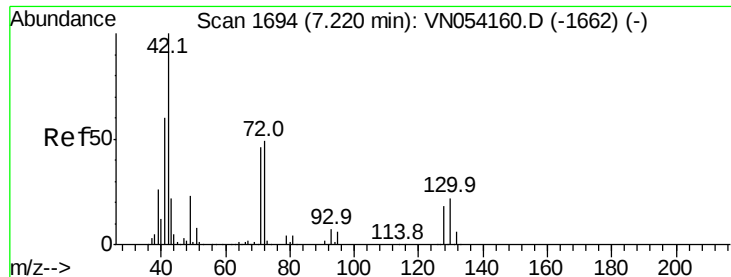
Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Tgt Ion	49	Resp	180302
Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.6
130	98.1	76.7	115.1





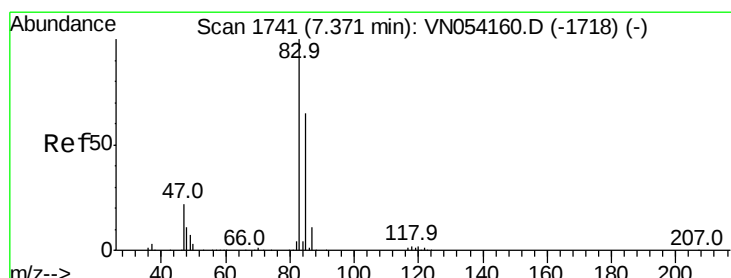
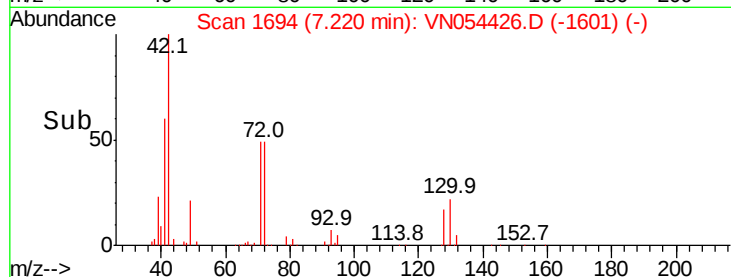
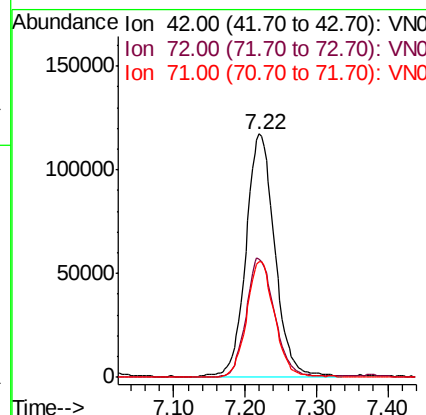
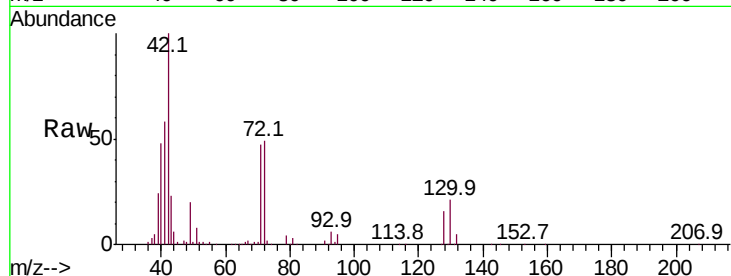
#29
Tetrahydrofuran
Concen: 119.150 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.7	37.8	56.6
71	46.3	36.2	54.2

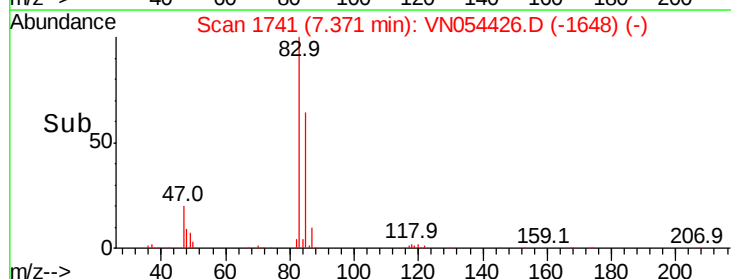
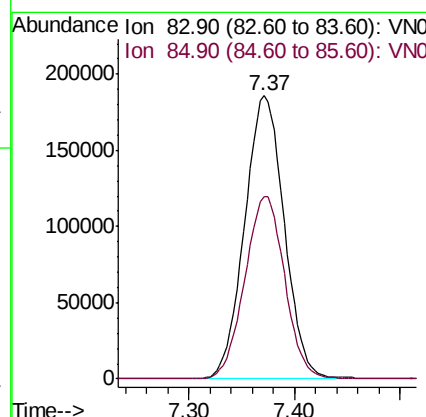
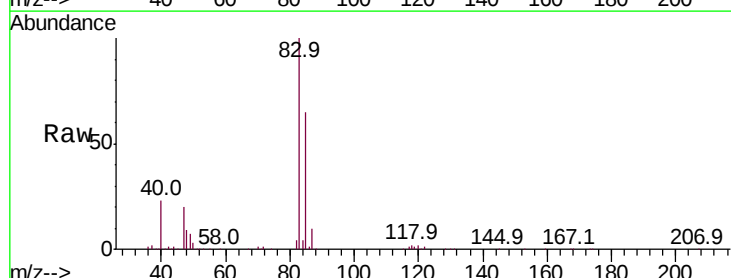
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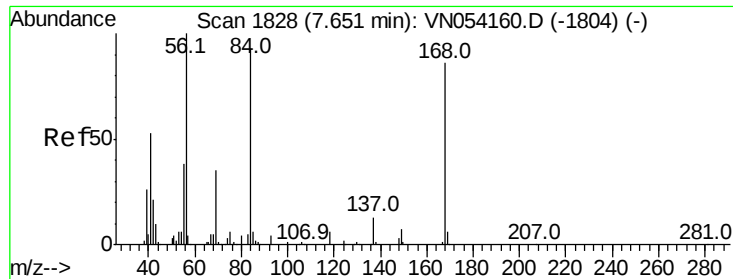
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#30
Chloroform
Concen: 22.632 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.2	78.4





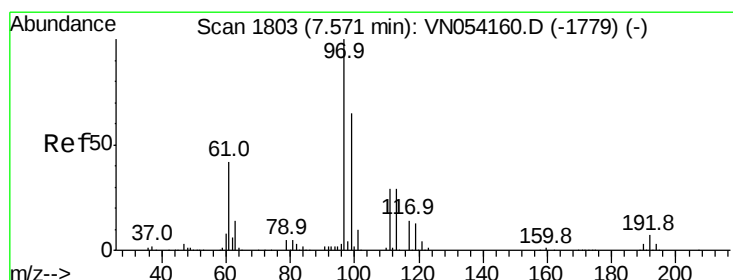
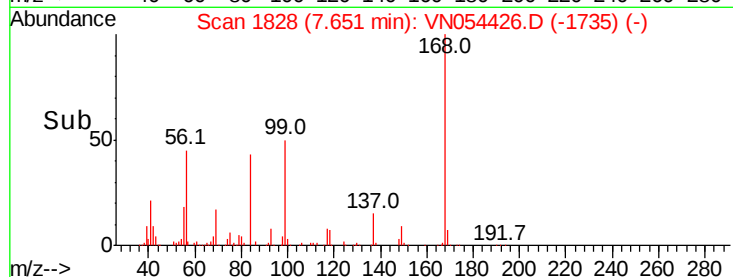
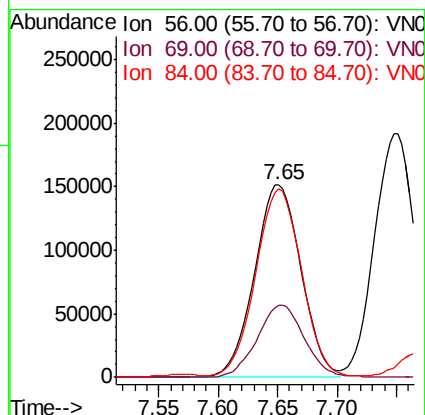
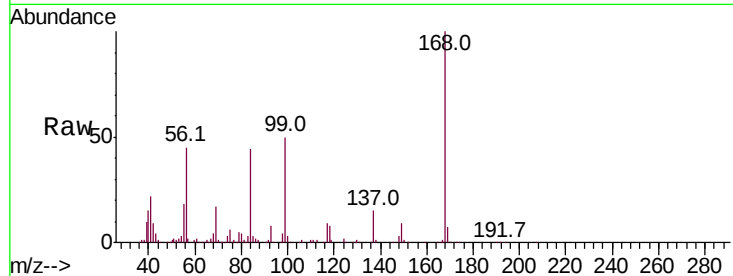
#31
Cyclohexane
Concen: 20.656 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleID :
VN0318MBSD02

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.1	27.8	41.6
84	96.4	74.6	111.8

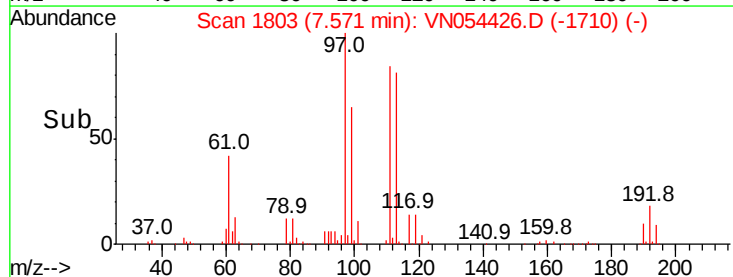
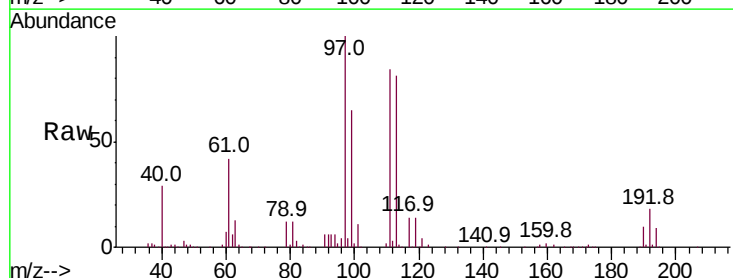
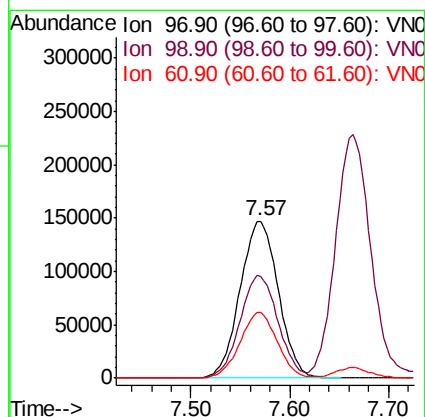
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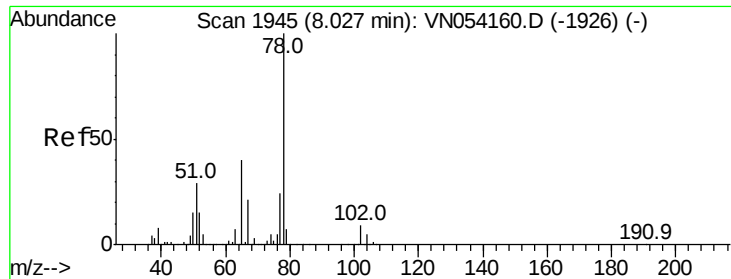
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#32
1,1,1-Trichloroethane
Concen: 20.396 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.5	77.3
61	40.8	33.6	50.4





#33

1,2-Dichloroethane-d4

Concen: 51.015 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

Tot Ion: 65 Resp: 652289

Ion Ratio Lower Upper

65 100

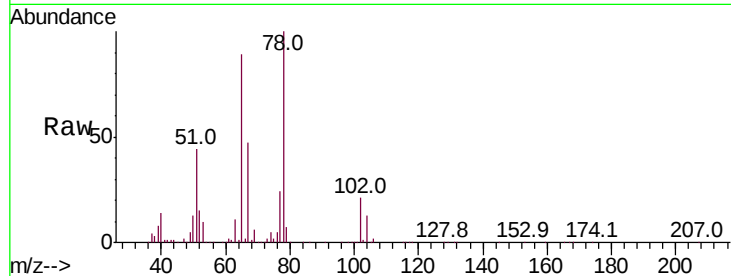
67 54.2 0.0 104.6

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Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

300000

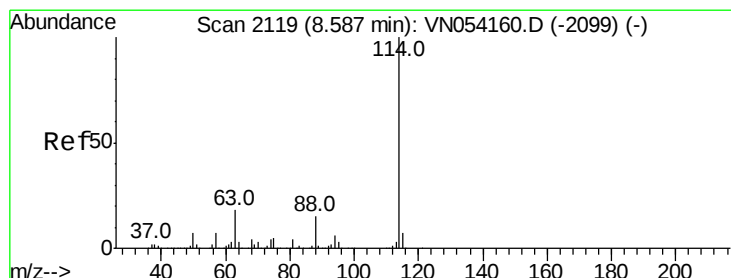
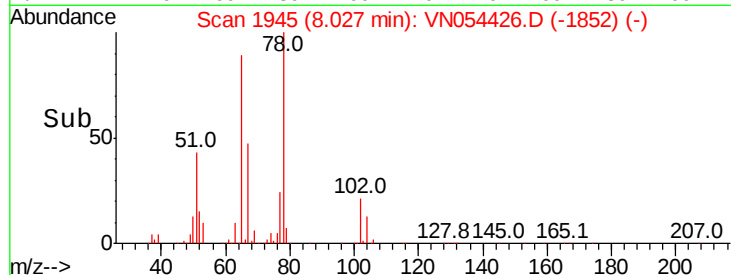
200000

100000

0

7.90 7.95 8.00 8.05 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

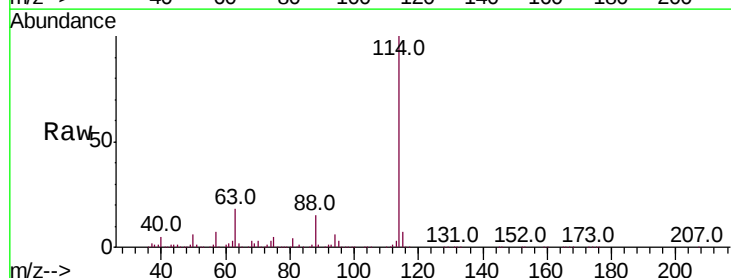
Tgt Ion:114 Resp: 1982150

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.2

88 14.8 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

1200000

1000000

800000

600000

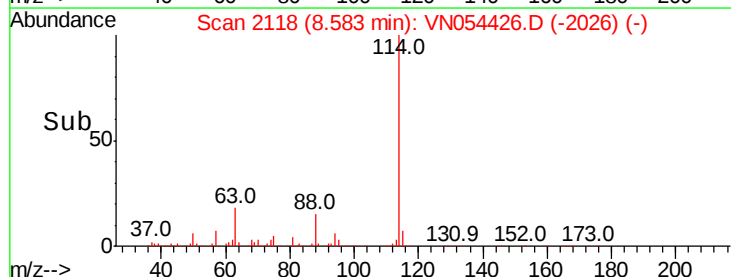
400000

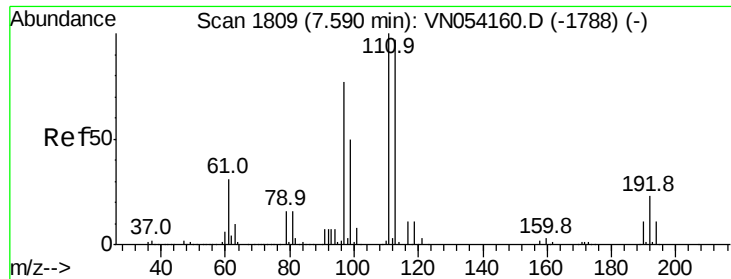
200000

0

8.50 8.60 8.70 8.80

Time-->





#35

Dibromofluoromethane

Concen: 48.988 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

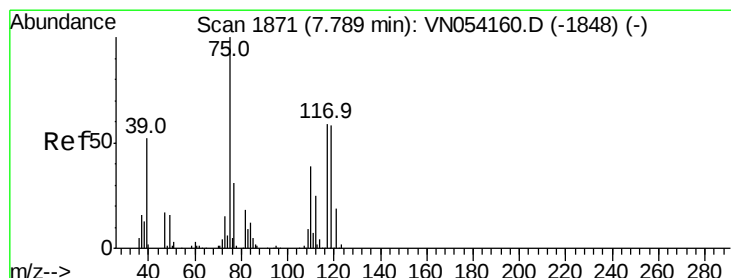
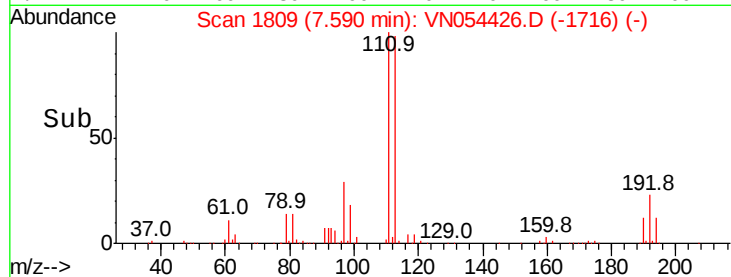
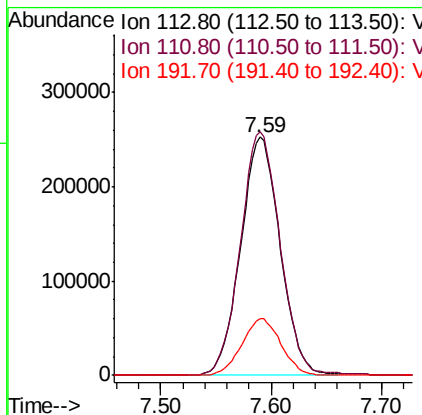
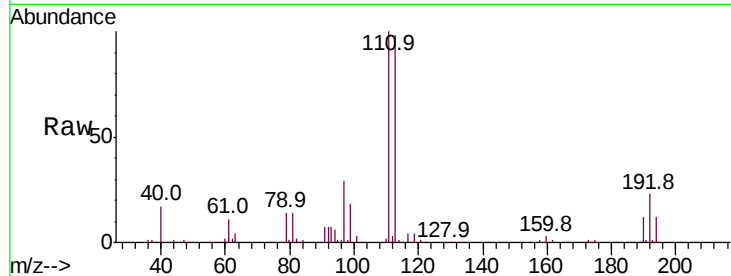
ClientSampleId :

VN0318MBSD02

Tot Ion:	113	Resp:	626263
Ion Ratio	Lower	Upper	
113	100		
111	103.0	82.2	123.4
192	23.7	19.2	28.8

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#36

1,1-Dichloropropene

Concen: 18.908 ug/l

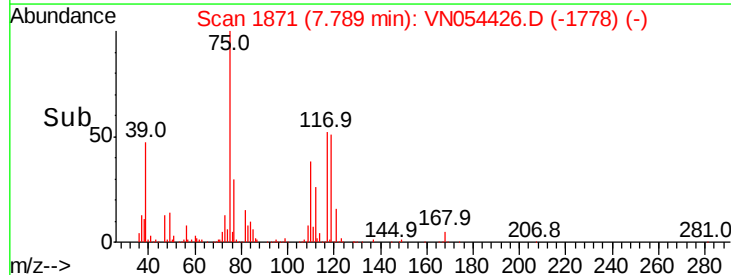
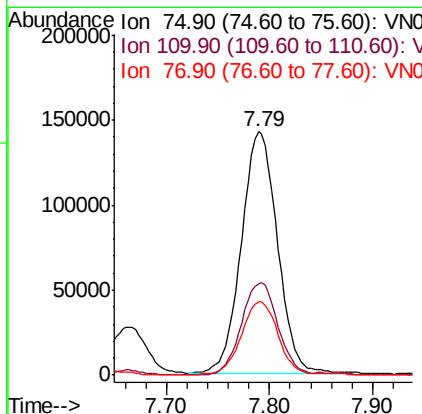
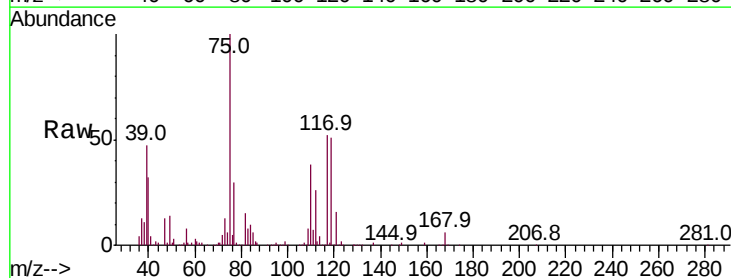
RT: 7.79 min Scan# 1871

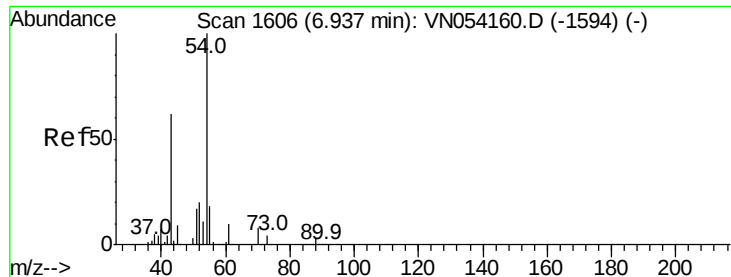
Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Tgt Ion:	75	Resp:	345143
Ion Ratio	Lower	Upper	
75	100		
110	38.9	19.1	57.5
77	31.4	25.0	37.4





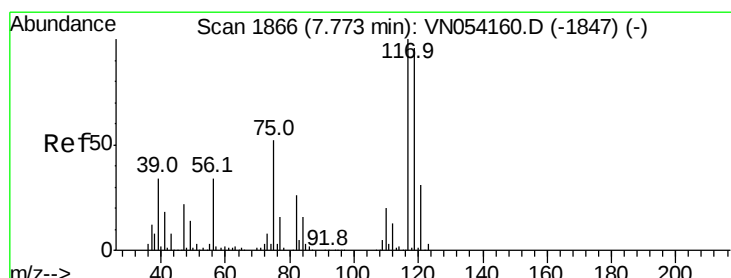
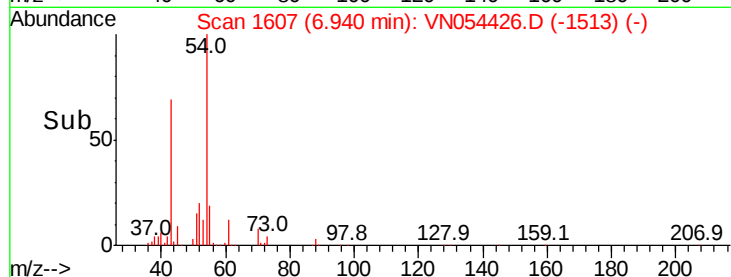
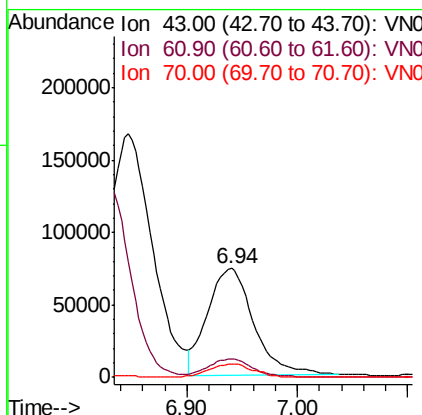
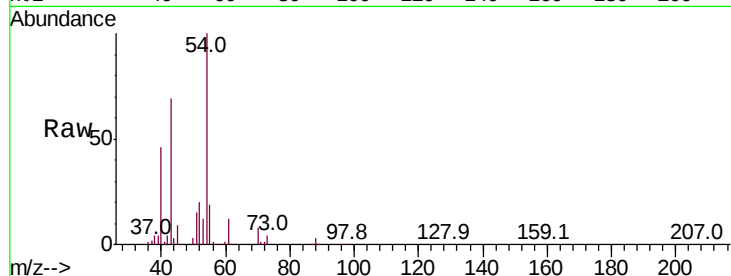
#37
Ethyl Acetate
Concen: 20.314 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.7	11.8	17.6
70	12.2	8.4	12.6

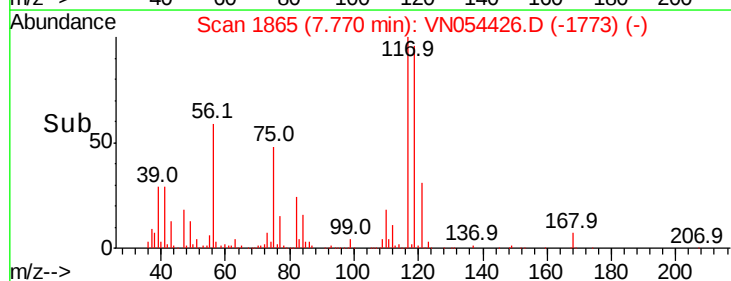
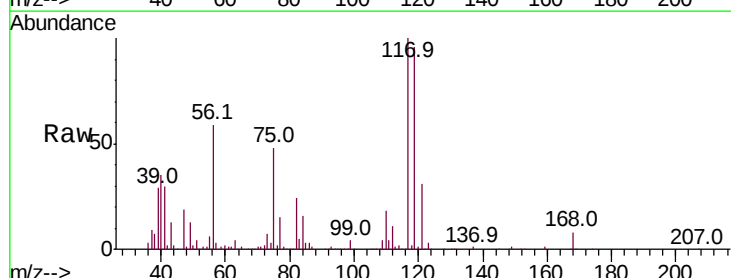
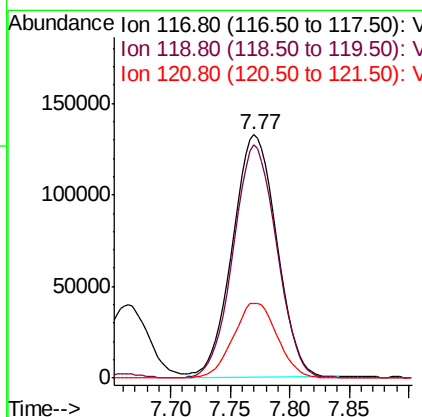
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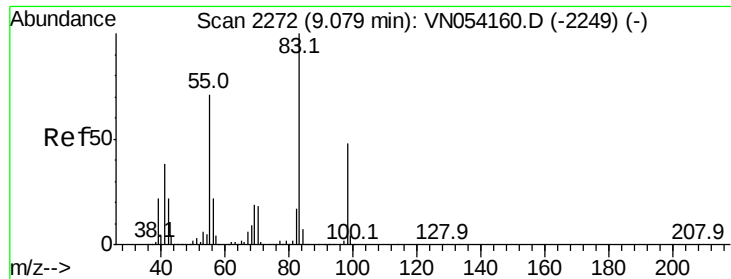
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#38
Carbon Tetrachloride
Concen: 17.778 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.2	76.3	114.5
121	31.1	24.6	36.8





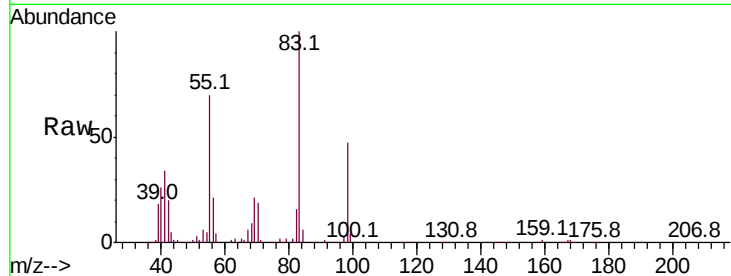
#39
Methvlcvclohexane
Concen: 17.528 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

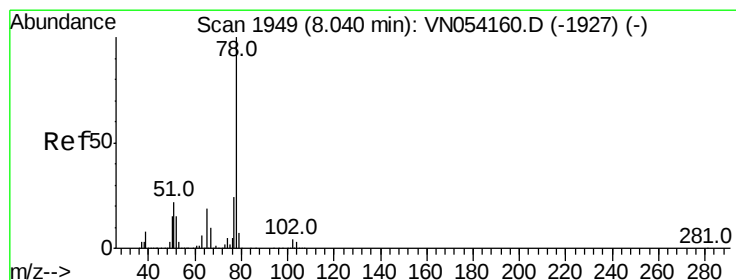
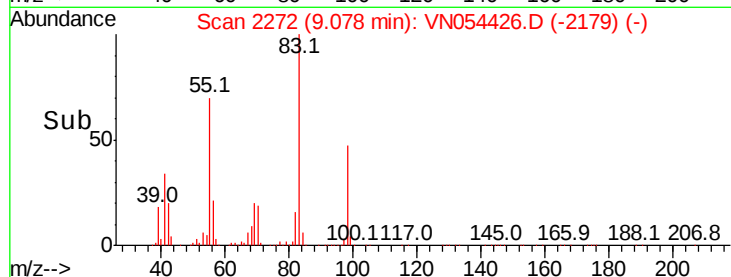
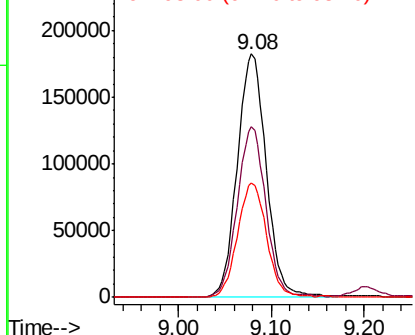
Tot Ion	Ratio	Lower	Upper
83	100		
55	70.0	56.6	84.8
98	47.0	38.4	57.6

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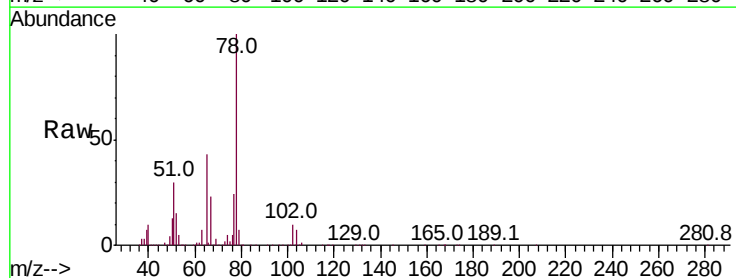


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

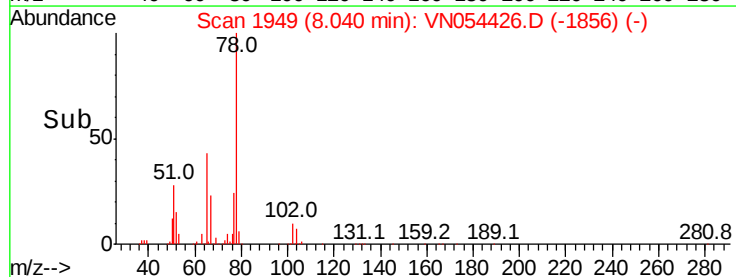
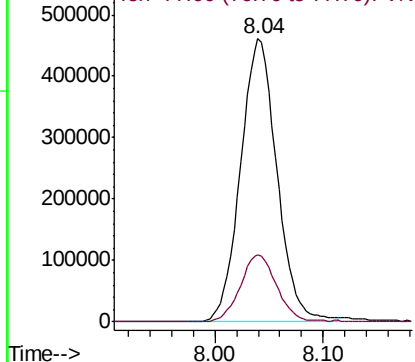


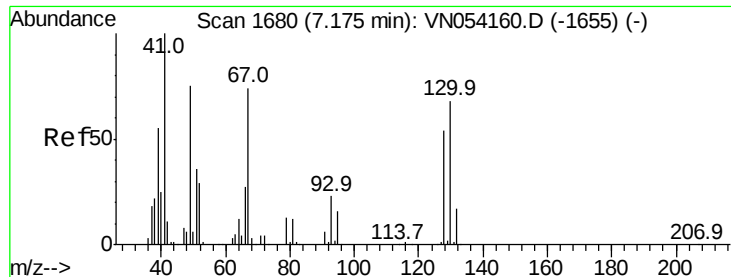
#40
Benzene
Concen: 20.714 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.1	28.7



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





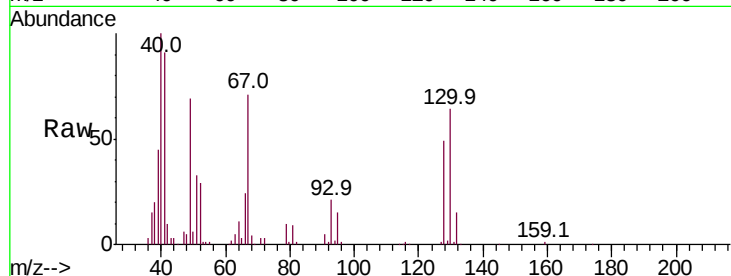
#41
Methacrylonitrile
Concen: 19.488 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.1	46.8	70.2	
67	94.9	67.0	100.4	
52	37.0	26.5	39.7	

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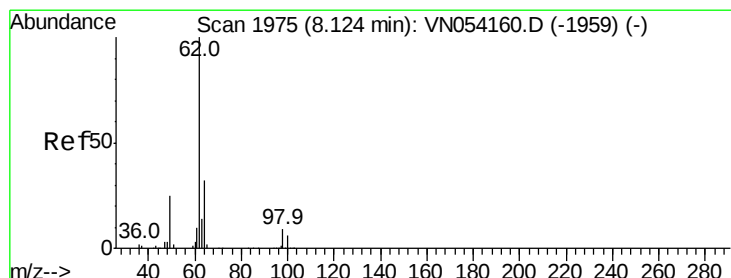
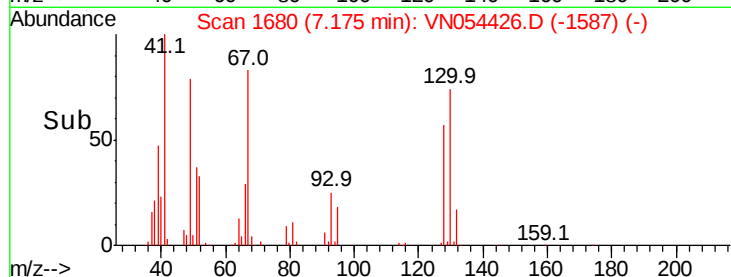
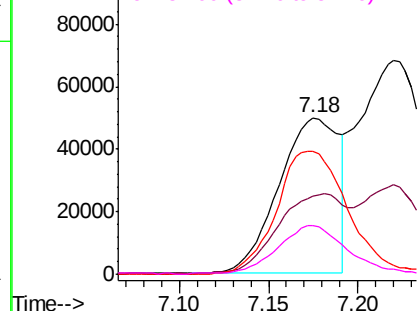
Abundance

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

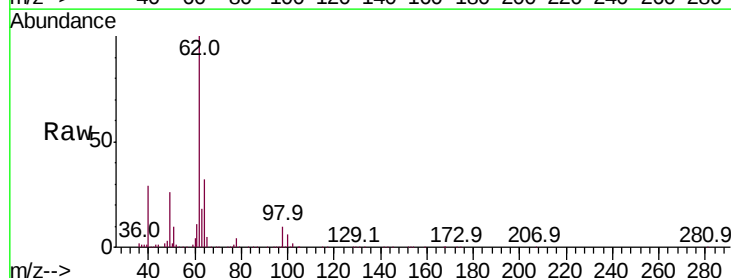
Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



#42
1,2-Dichloroethane
Concen: 19.218 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

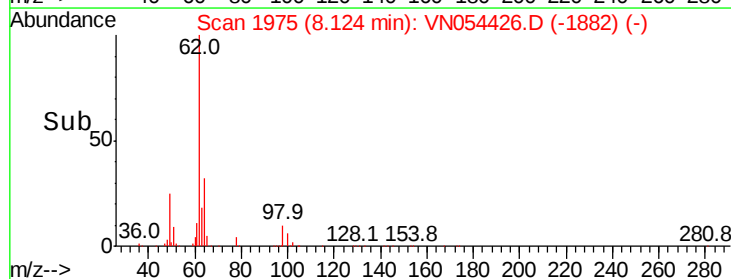
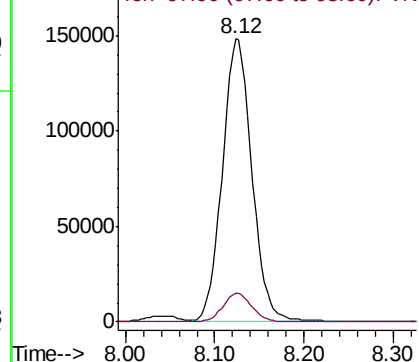
Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.9	0.0	18.4	

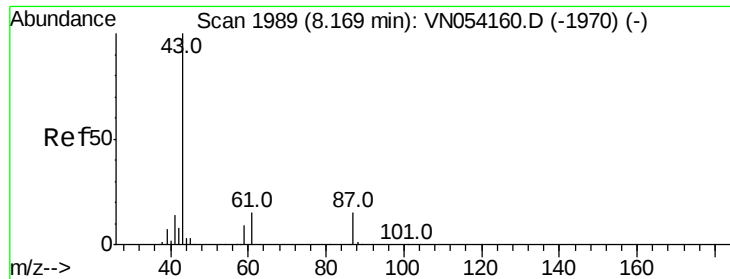


Abundance

Ion 61.90 (61.60 to 62.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





#43

Isopropyl Acetate

Concen: 19.244 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

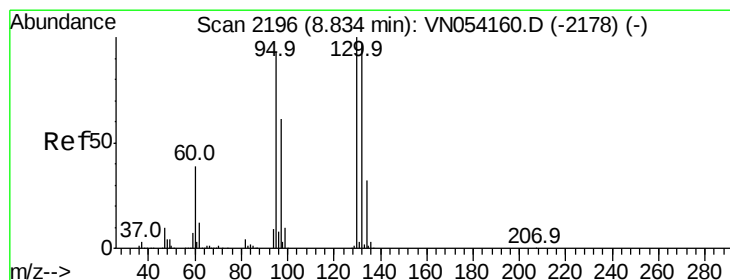
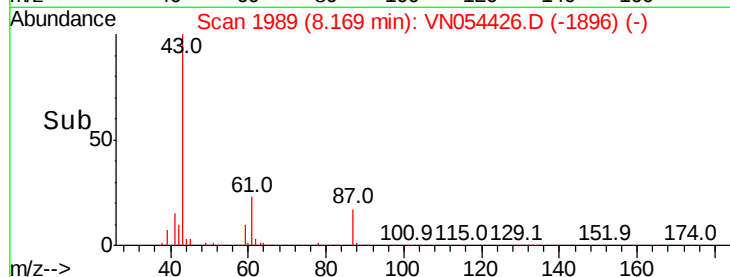
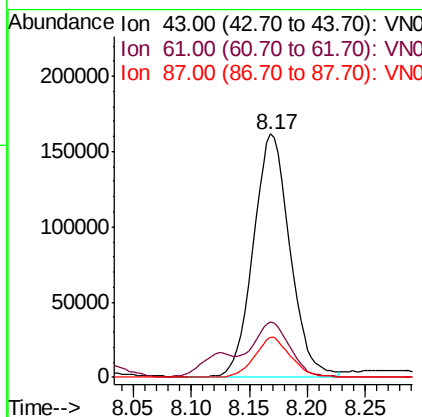
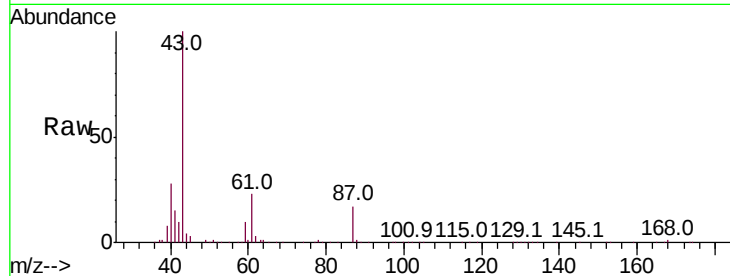
ClientSampleId :

VN0318MBSD02

Tot Ion	43	Resp	354285
Ion	Ratio	Lower	Upper
43	100		
61	22.0	15.8	23.8
87	16.3	12.0	18.0

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#44

Trichloroethene

Concen: 19.916 ug/l

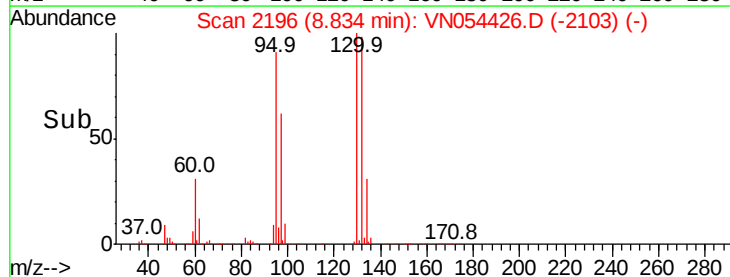
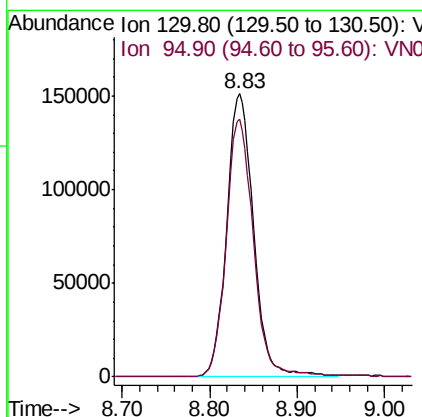
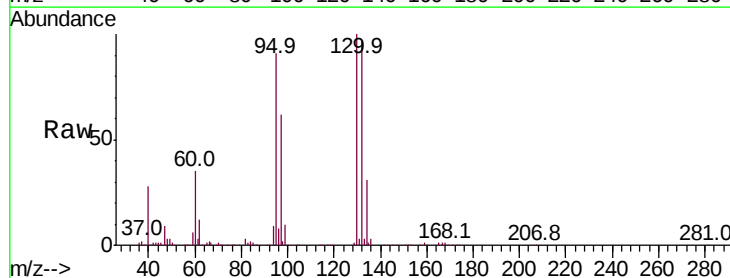
RT: 8.83 min Scan# 2196

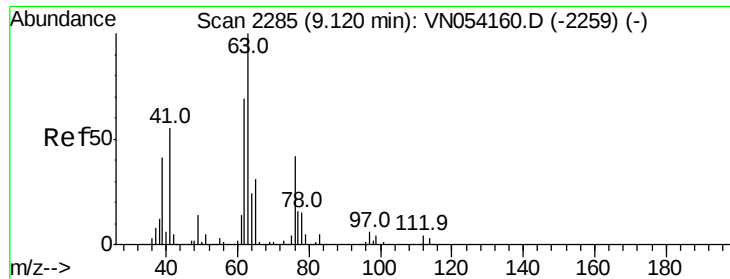
Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Tgt Ion	130	Resp	323174
Ion	Ratio	Lower	Upper
130	100		
95	90.7	0.0	185.2





#45

1,2-Dichloropropane

Concen: 21.877 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

Tot Ion: 63 Resp: 283754

Ion Ratio Lower Upper

63 100

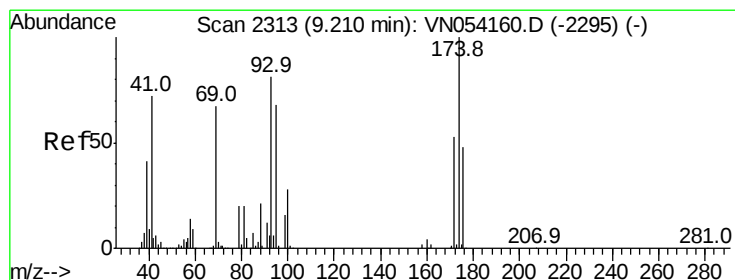
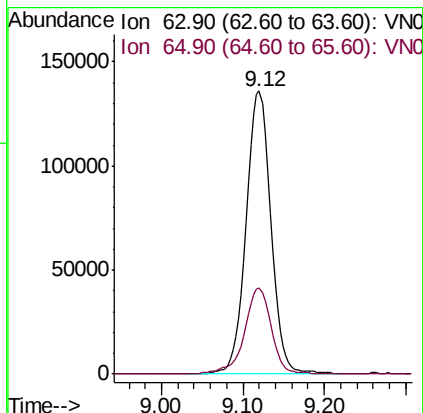
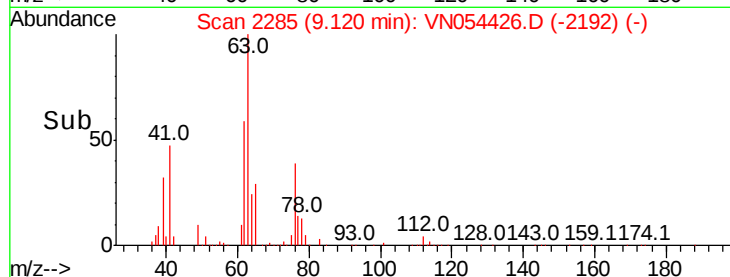
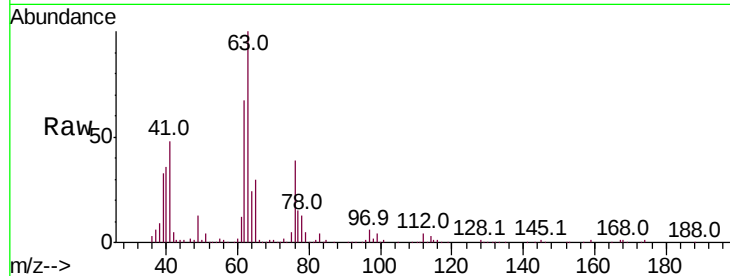
65 30.1 25.0 37.6

Manual Integrations

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#46

Dibromomethane

Concen: 20.402 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

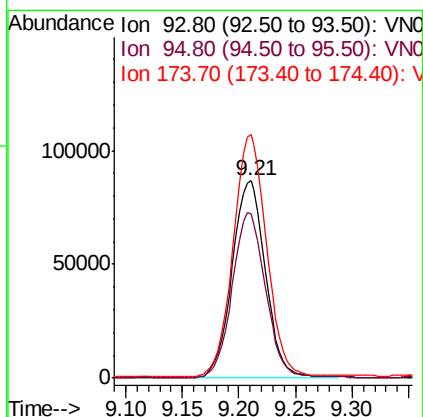
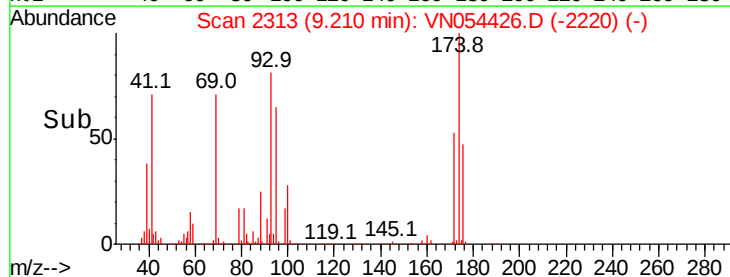
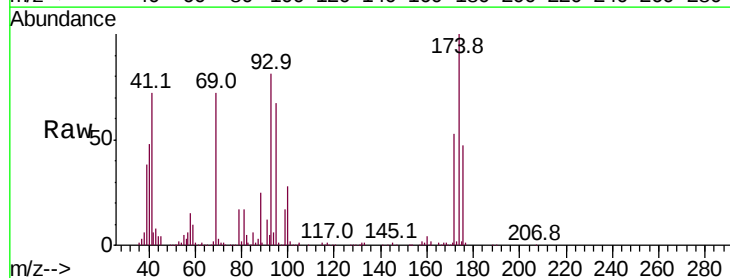
Tgt Ion: 93 Resp: 178793

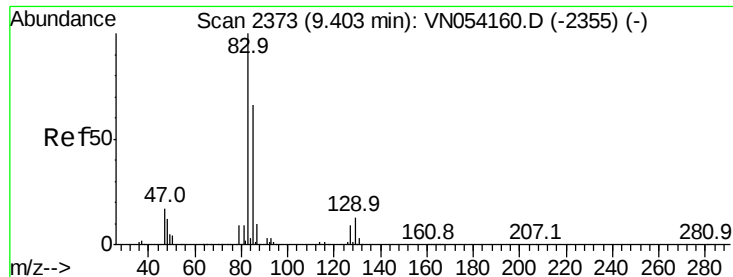
Ion Ratio Lower Upper

93 100

95 82.7 66.7 100.1

174 122.2 98.5 147.7





#47

Bromodichloromethane

Concen: 19.022 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

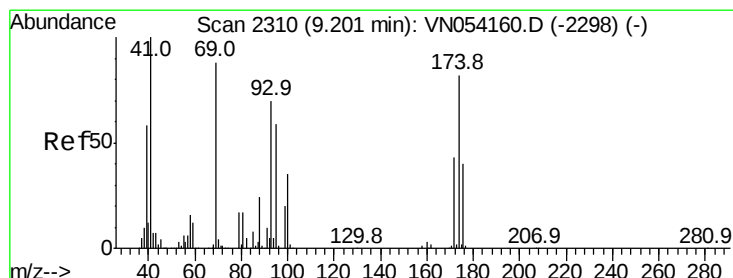
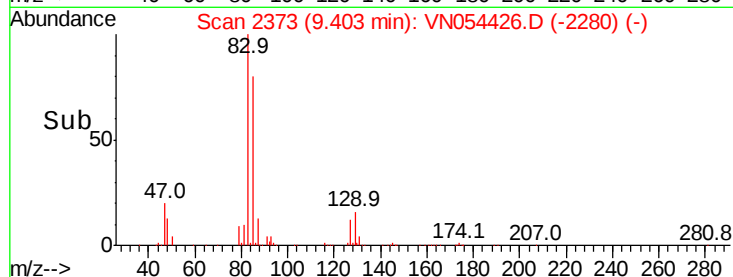
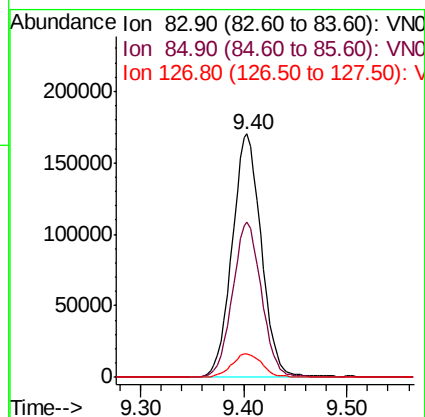
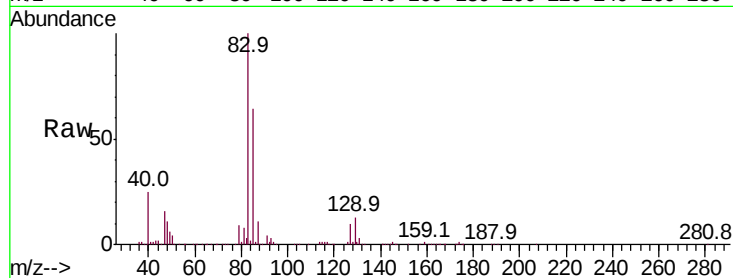
ClientSampleId :

VN0318MBSD02

Tot Ion:	83	Resp:	334192
Ion Ratio	Lower	Upper	
83	100		
85	63.8	52.8	79.2
127	9.5	7.4	11.2

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#48

Methyl methacrylate

Concen: 20.018 ug/l

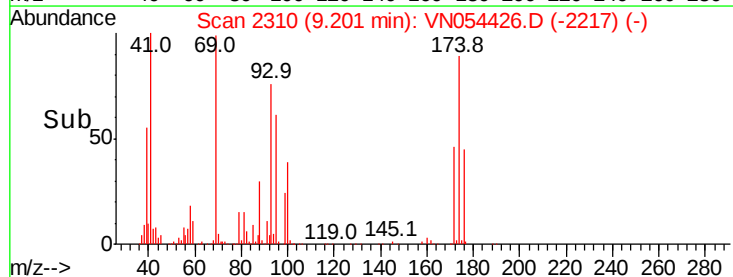
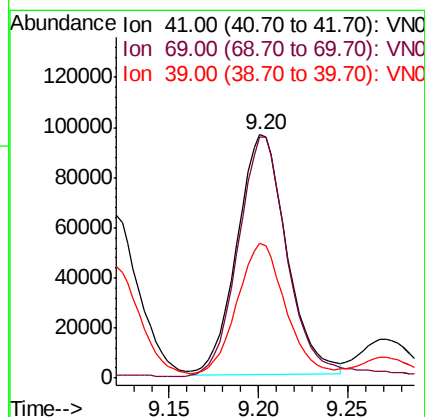
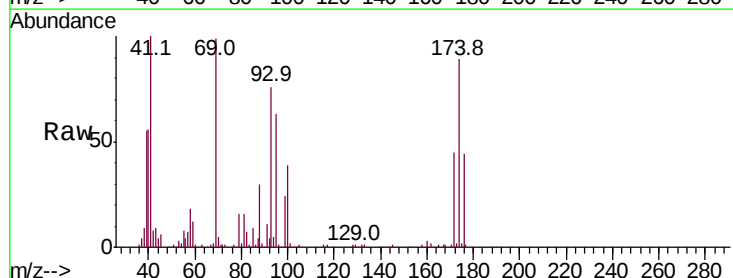
RT: 9.20 min Scan# 2310

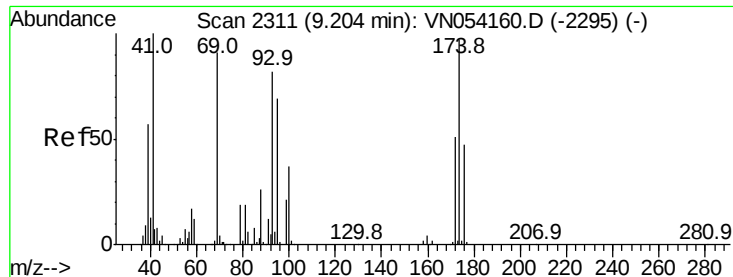
Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Tgt Ion:	41	Resp:	187027
Ion Ratio	Lower	Upper	
41	100		
69	100.7	72.6	108.8
39	54.9	47.5	71.3





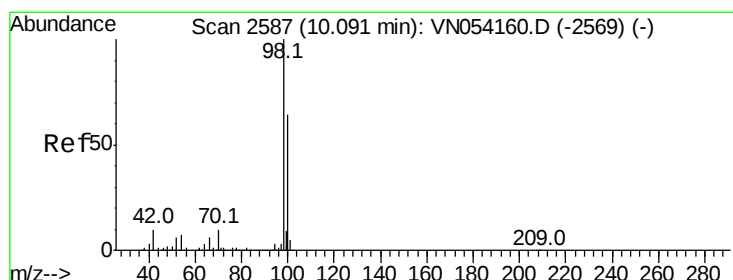
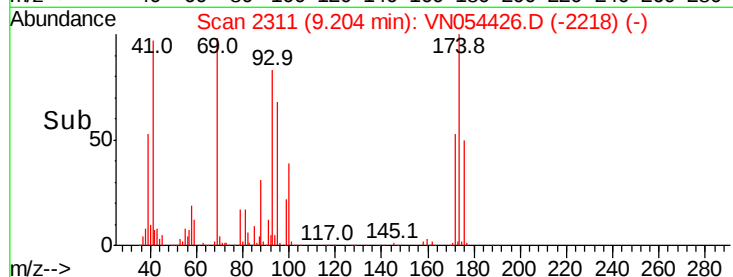
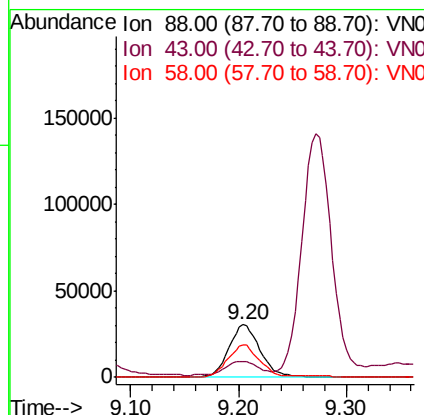
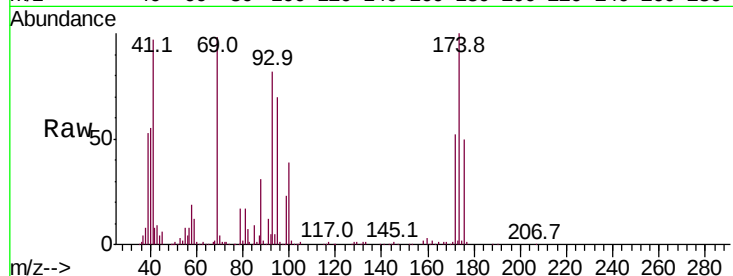
#49
1,4-Dioxane
Concen: 469.310 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

Tot Ion	Ratio	Lower	Upper
88	100		
43	27.3	24.1	36.1
58	62.7	50.8	76.2

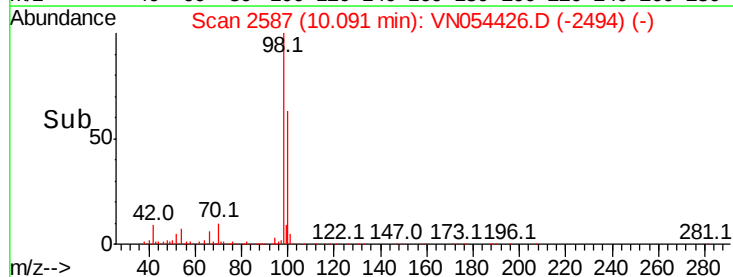
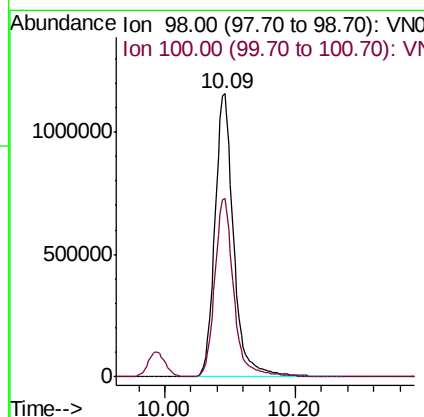
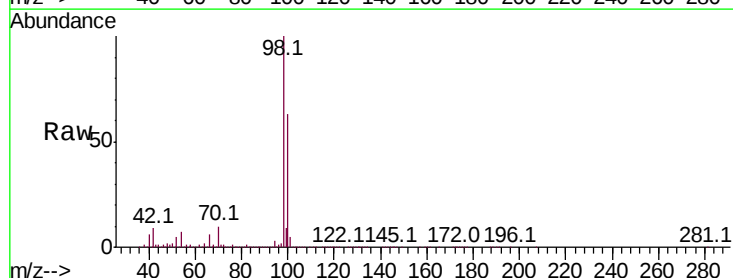
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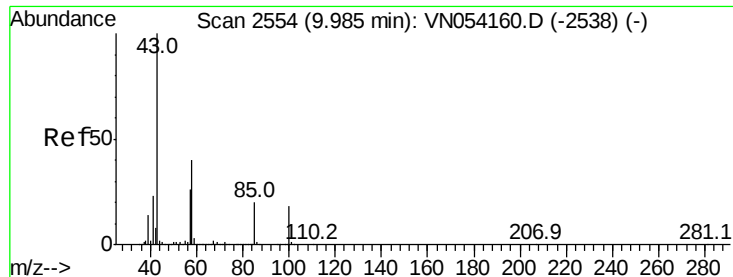
MMDadoda
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#50
Toluene-d8
Concen: 49.062 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.3	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 106.645 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBS02

Tot Ion: 43 Resp: 1039018

Ion Ratio Lower Upper

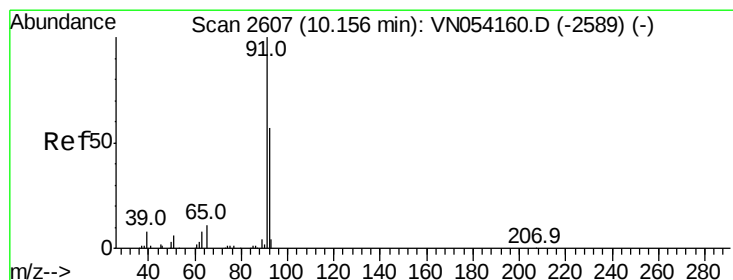
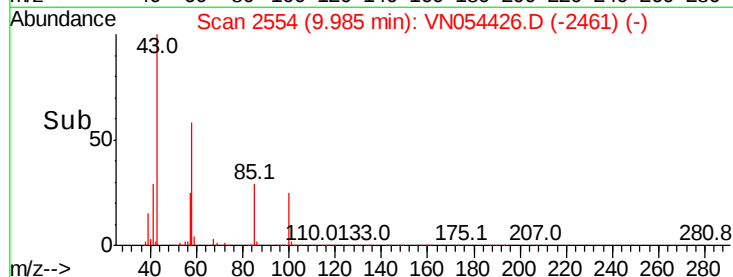
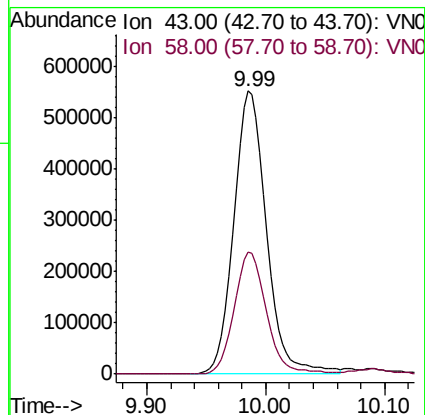
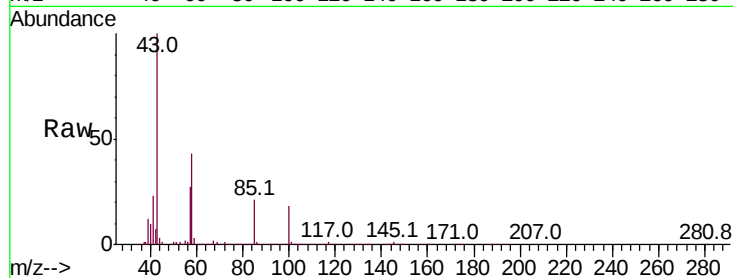
43 100

58 42.9 31.8 47.6

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#52

Toluene

Concen: 20.672 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054426.D

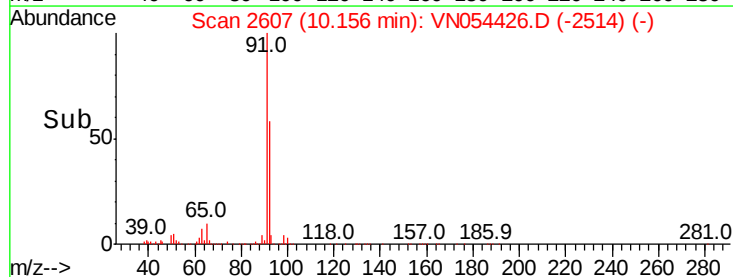
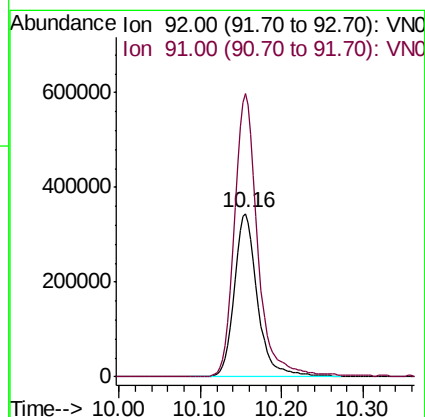
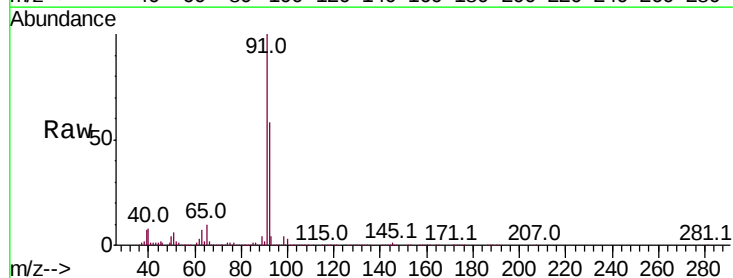
Acq: 19 Mar 2019 6:52

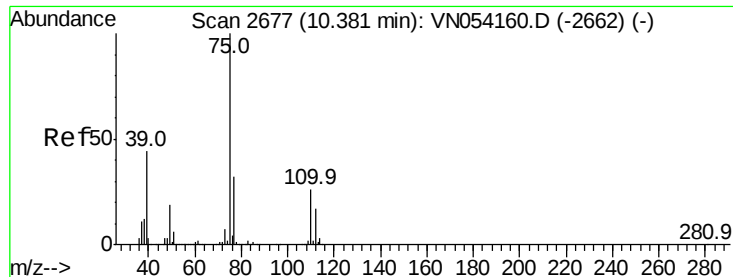
Tgt Ion: 92 Resp: 684670

Ion Ratio Lower Upper

92 100

91 174.0 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 15.432 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

Tot Ion: 75 Resp: 281375

Ion Ratio Lower Upper

75 100

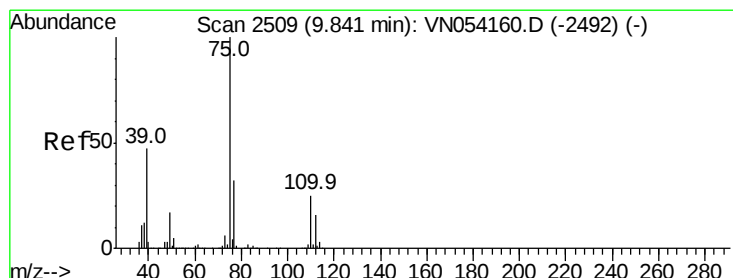
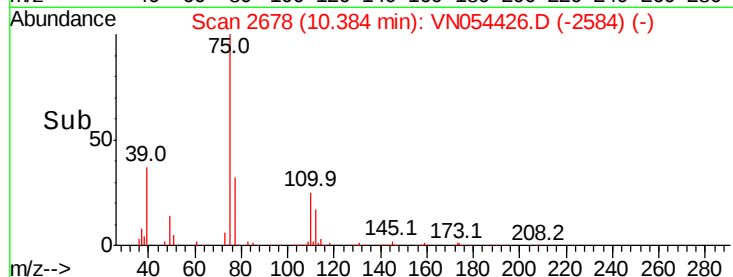
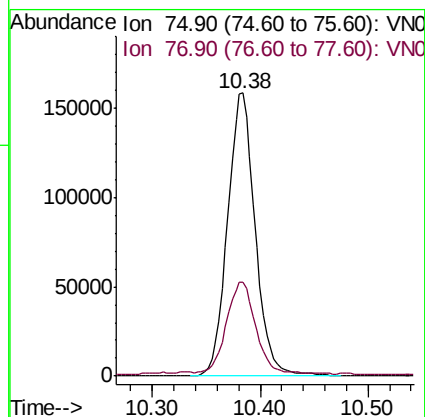
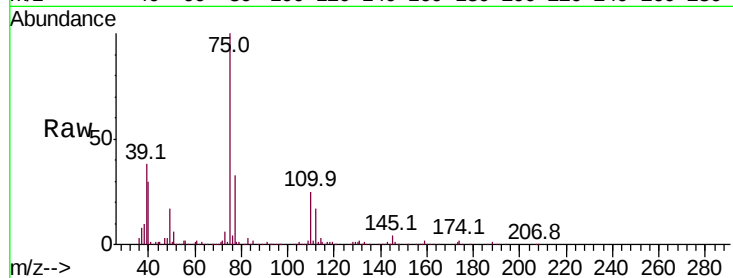
77 32.5 25.8 38.8

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 17.865 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

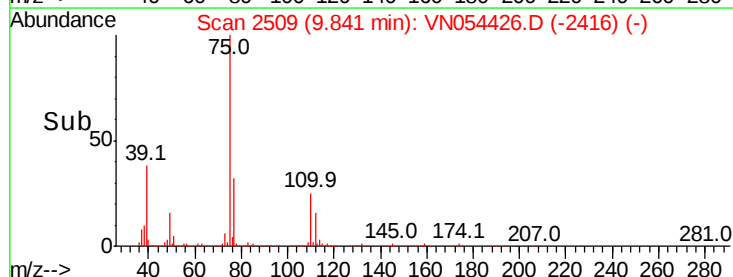
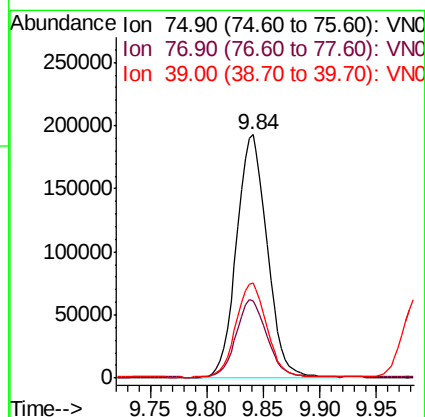
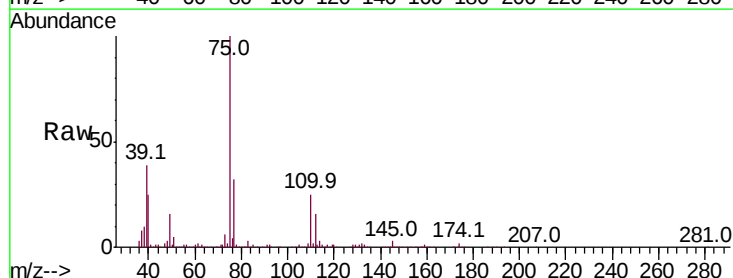
Tgt Ion: 75 Resp: 365759

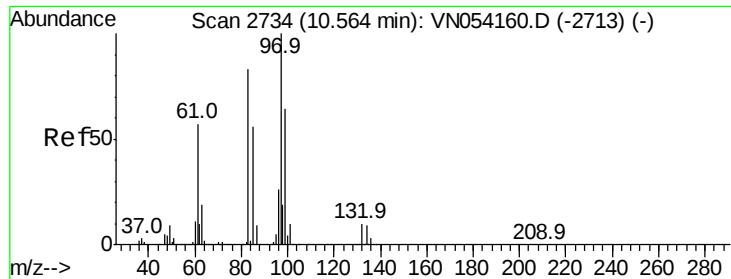
Ion Ratio Lower Upper

75 100

77 31.6 25.4 38.0

39 38.5 37.2 55.8





#55

1,1,2-Trichloroethane

Concen: 21.428 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

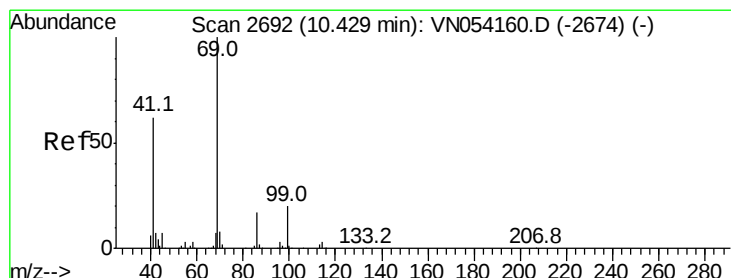
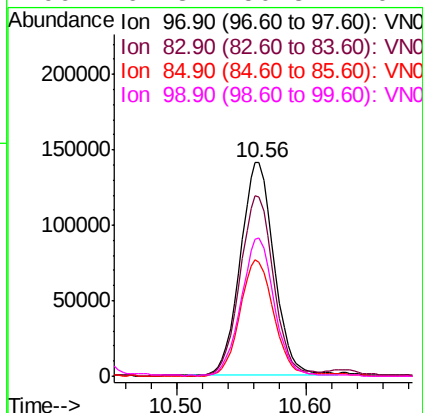
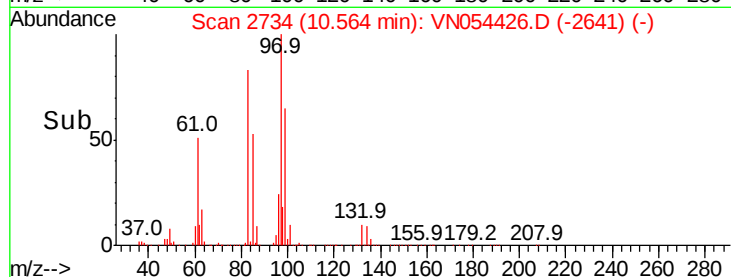
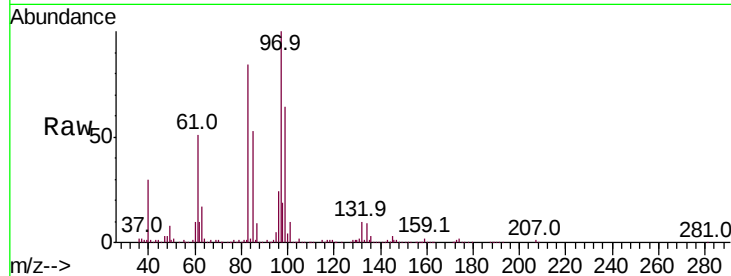
ClientSampleId :

VN0318MBSD02

Tot Ion	97	Resp	259144
Ion Ratio	Lower	Upper	
97	100		
83	83.7	66.6	100.0
85	53.5	44.4	66.6
99	64.3	50.8	76.2

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#56

Ethyl methacrylate

Concen: 21.679 ug/l

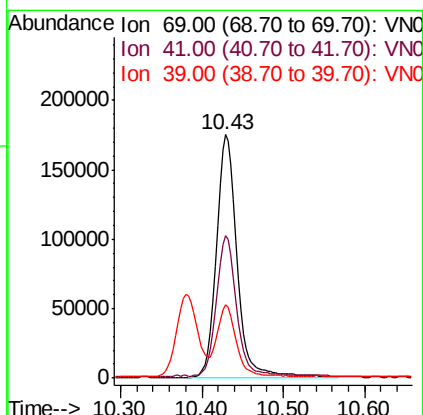
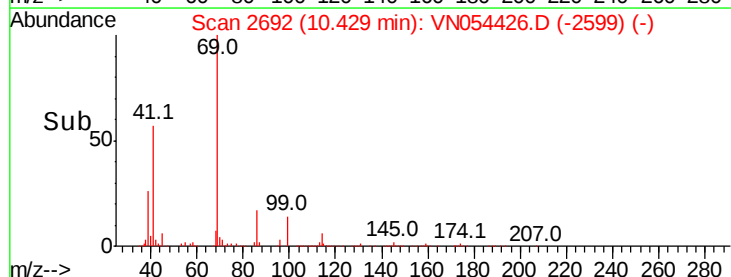
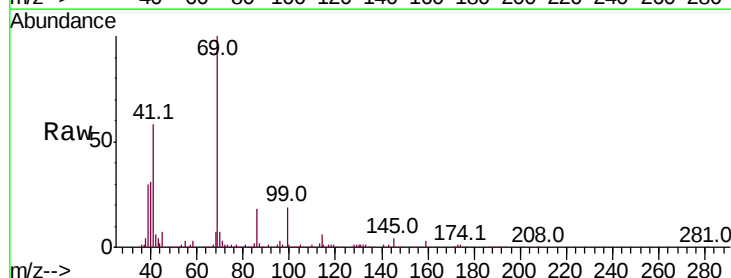
RT: 10.43 min Scan# 2692

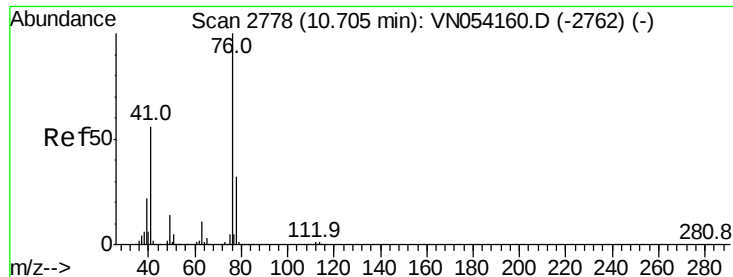
Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Tgt Ion	69	Resp	312607
Ion Ratio	Lower	Upper	
69	100		
41	56.2	49.4	74.2
39	28.0	28.3	42.5#





#57

1,3-Dichloropropane

Concen: 21.258 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

Tot Ion: 76 Resp: 420364

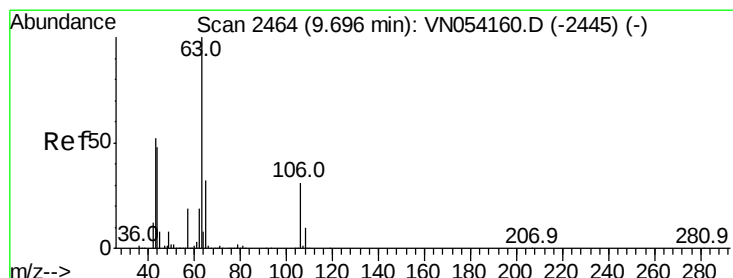
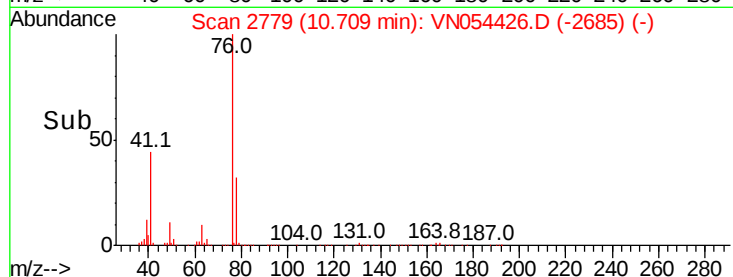
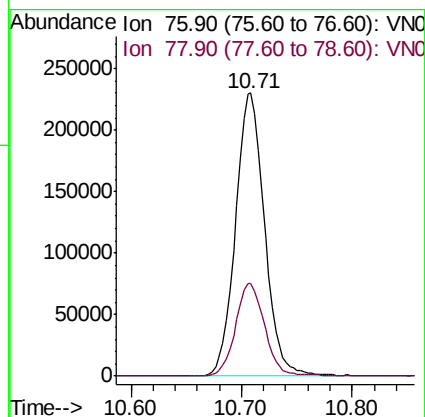
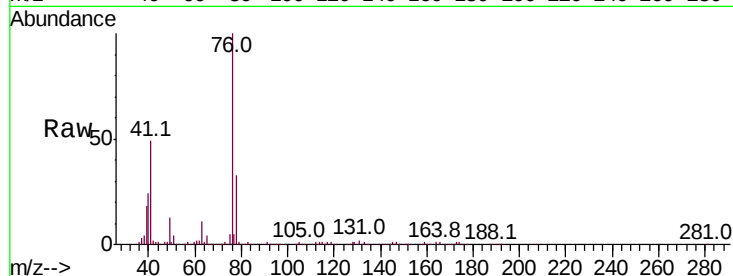
Ion Ratio Lower Upper

76 100

78 32.6 25.7 38.5

Manual Integrations
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#58

2-Chloroethyl Vinyl ether

Concen: 108.969 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN054426.D

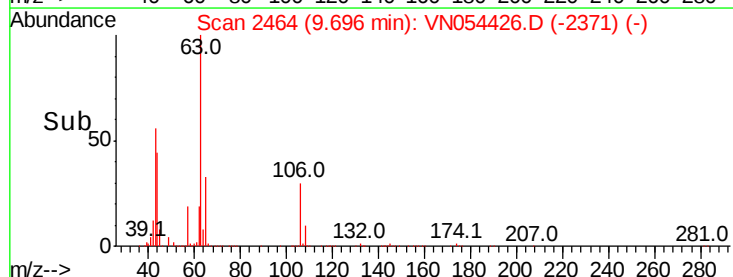
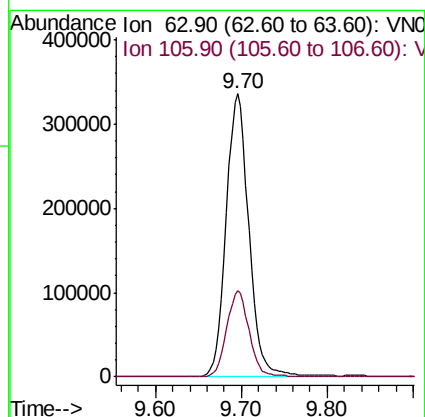
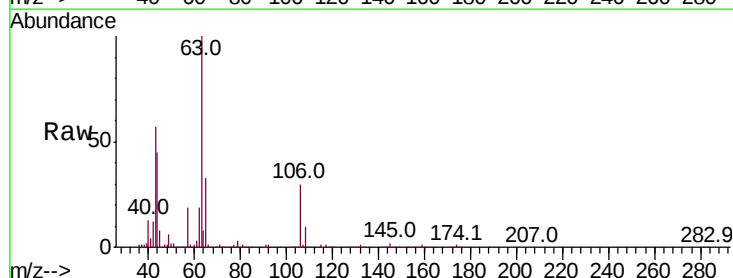
Acq: 19 Mar 2019 6:52

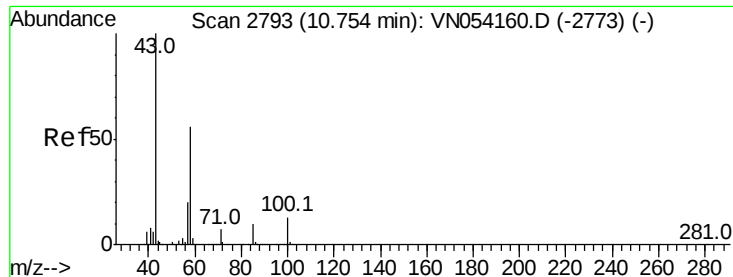
Tgt Ion: 63 Resp: 618039

Ion Ratio Lower Upper

63 100

106 30.3 24.4 36.6





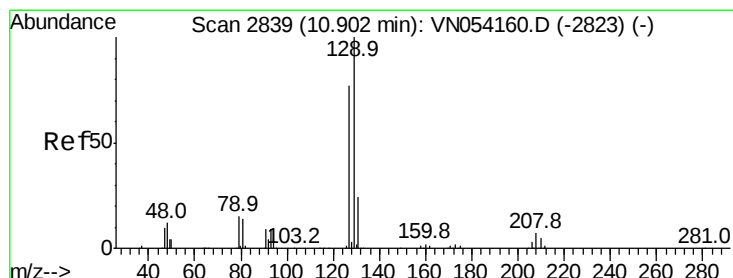
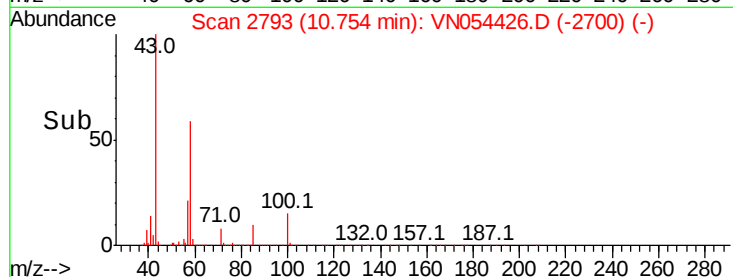
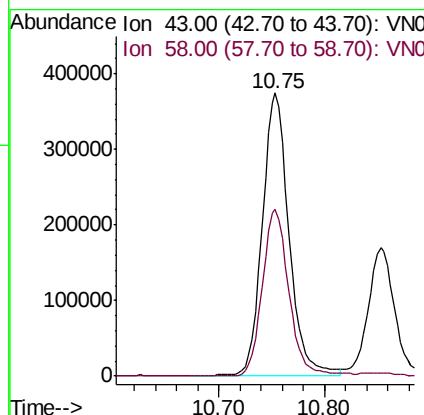
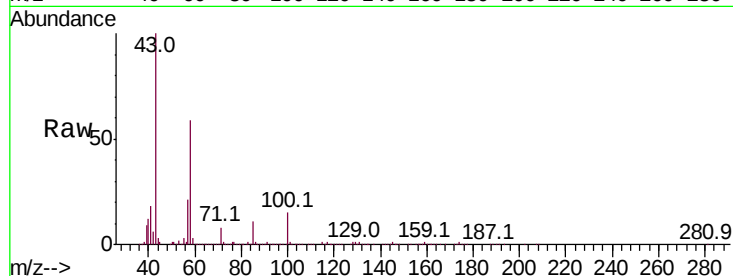
#59
2-Hexanone
Concen: 101.436 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	59.5	28.0	83.9

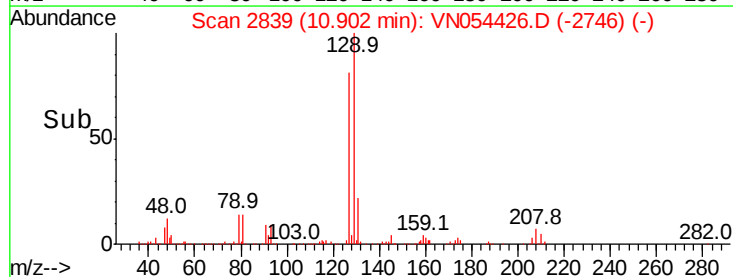
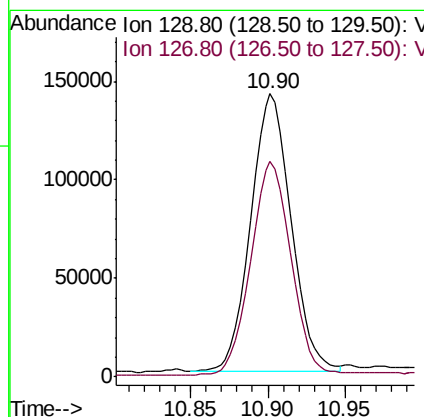
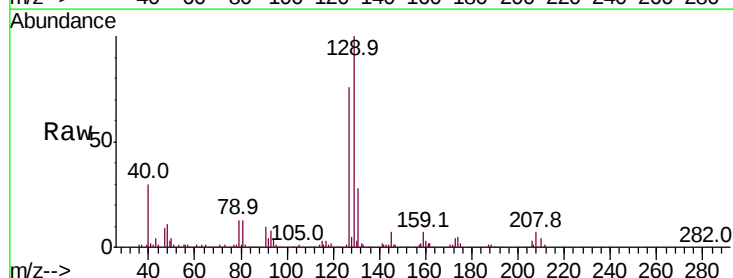
Manual Integrations
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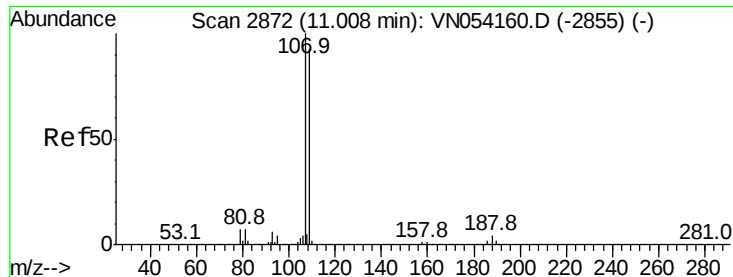
MMDadoda
3/19/2019 9:23:07 AM



#60
Dibromochloromethane
Concen: 18.818 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.6	115.8





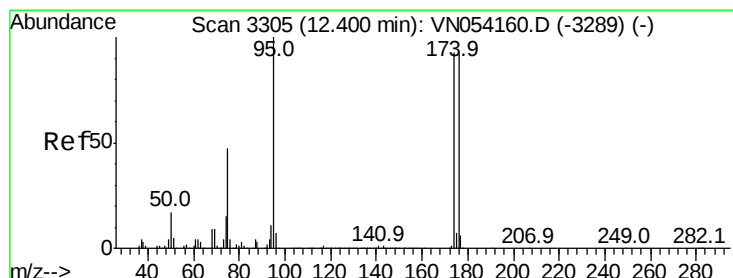
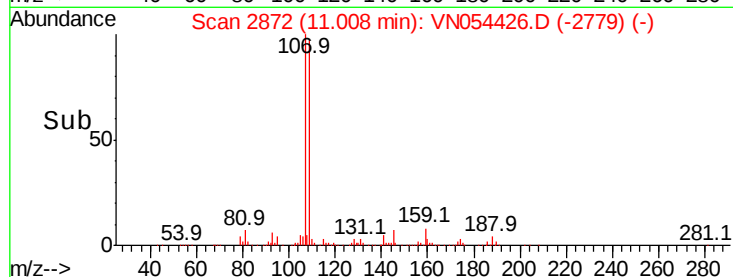
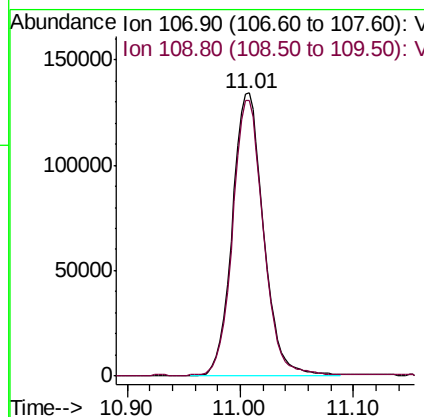
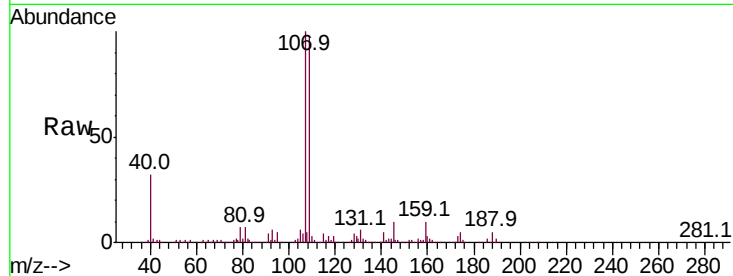
#61
 1,2-Dibromoethane
 Concen: 20.880 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. -0.00 min
 Lab File: VN054426.D
 Acq: 19 Mar 2019 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318MBS02

Tot Ion	Ratio	Resp	Lower	Upper
107	100	256610		
109	95.8	75.9	113.9	

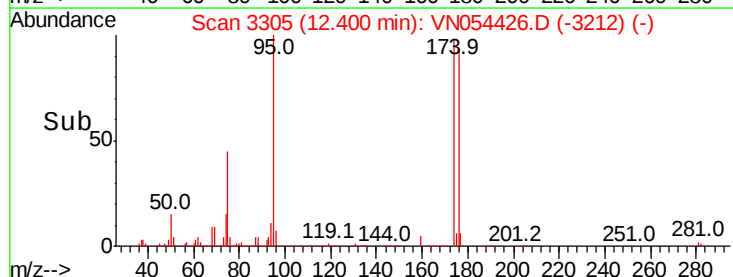
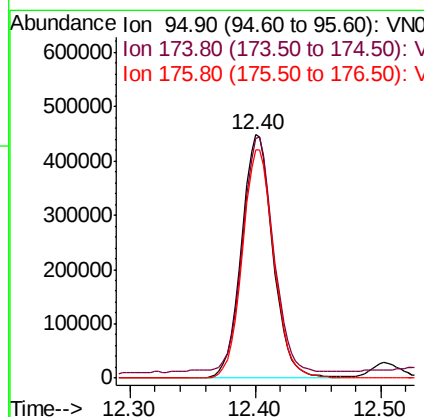
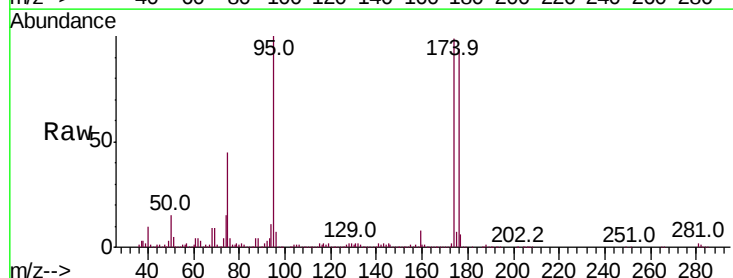
Manual Integrations
 APPROVED

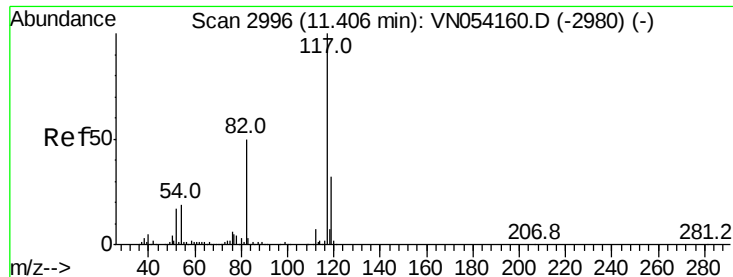
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#62
 4-Bromofluorobenzene
 Concen: 46.862 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN054426.D
 Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	774162		
174	94.6	0.0	191.0	
176	94.8	0.0	187.4	





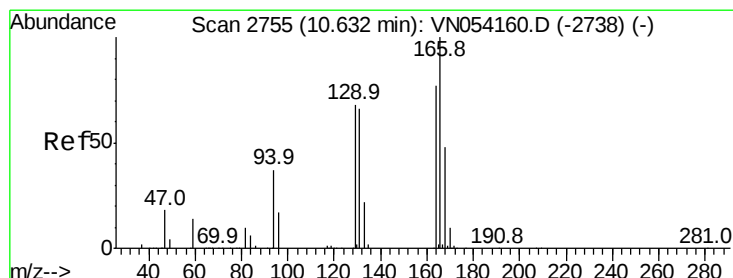
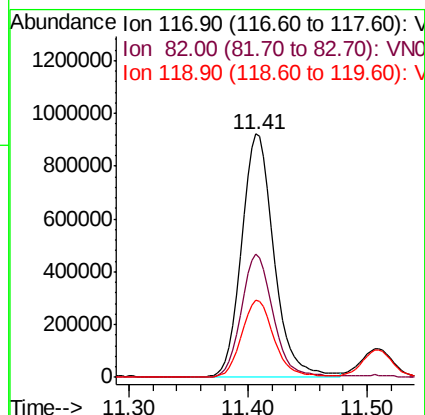
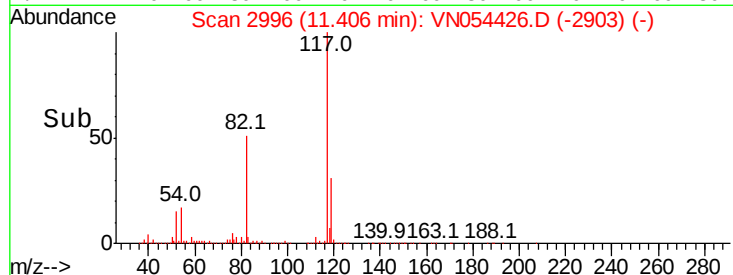
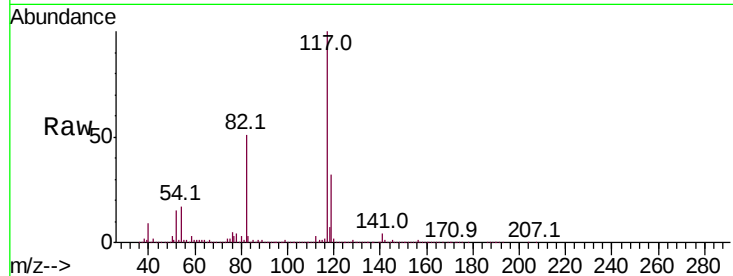
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

Tot Ion:117 Resp: 1725144
Ion Ratio Lower Upper
117 100
82 50.6 40.0 60.0
119 31.6 25.8 38.6

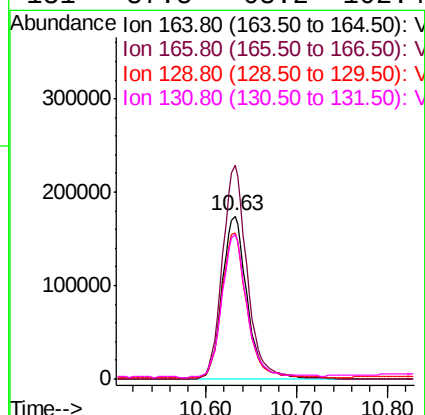
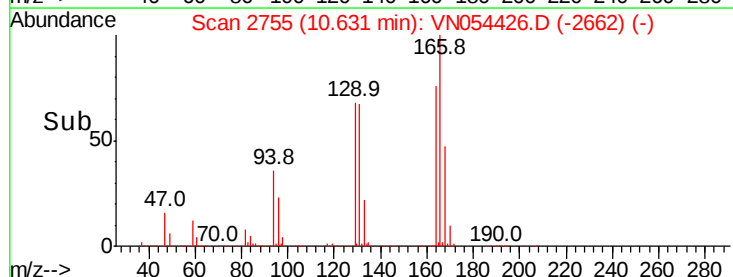
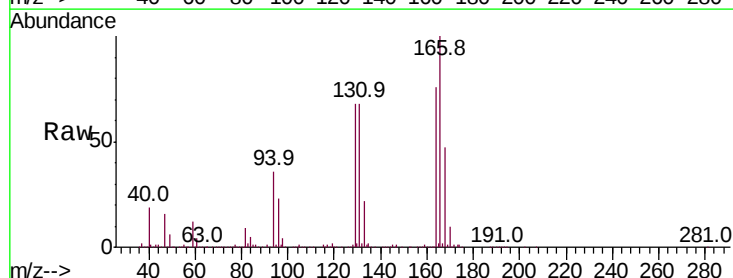
Manual Integrations
APPROVED

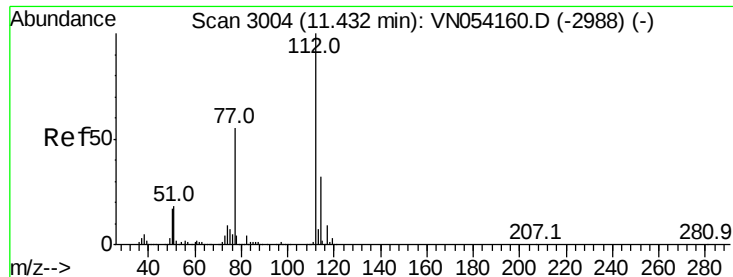
MMDadoda
3/19/2019 9:23:07 AM



#64
Tetrachloroethene
Concen: 20.056 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion:164 Resp: 334526
Ion Ratio Lower Upper
164 100
166 131.1 103.9 155.9
129 88.7 71.1 106.7
131 87.5 68.2 102.4





#65

Chlorobenzene

Concen: 20.660 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

Tot Ion:112 Resp: 782596

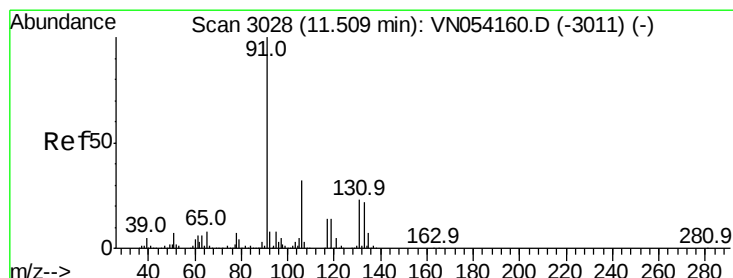
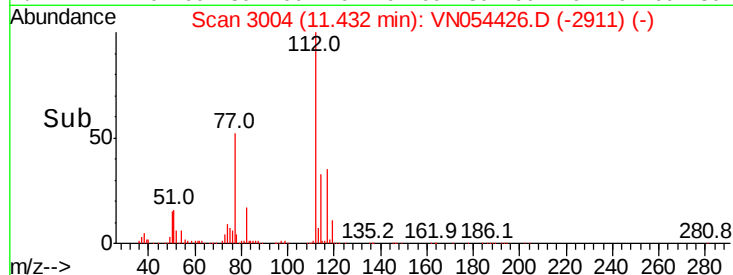
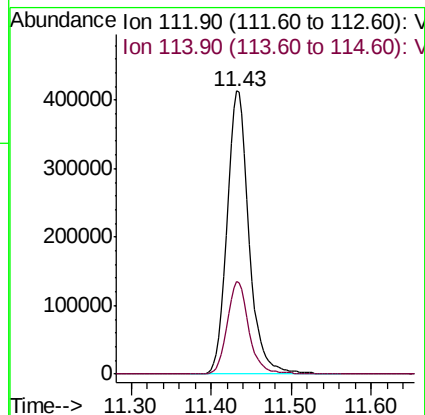
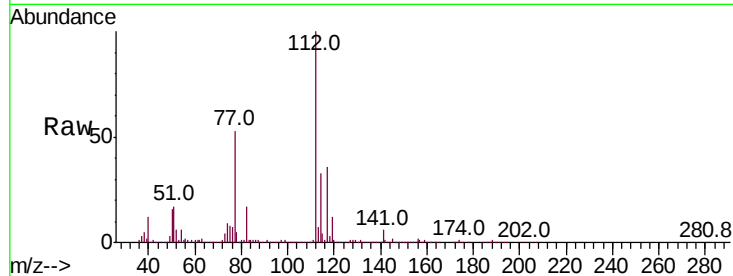
Ion Ratio Lower Upper

112 100

114 32.7 25.9 38.9

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 20.005 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

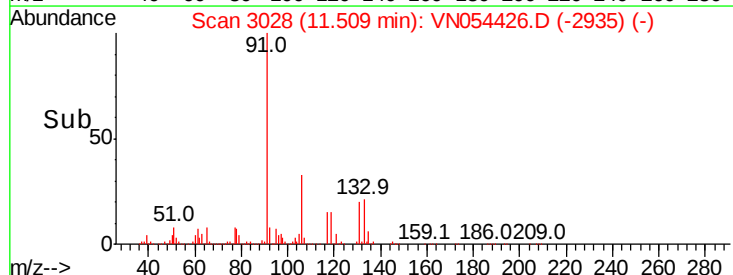
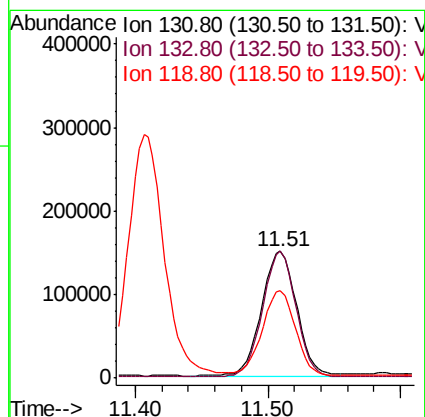
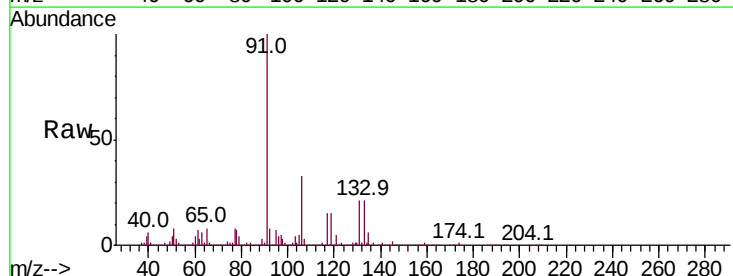
Tgt Ion:131 Resp: 275283

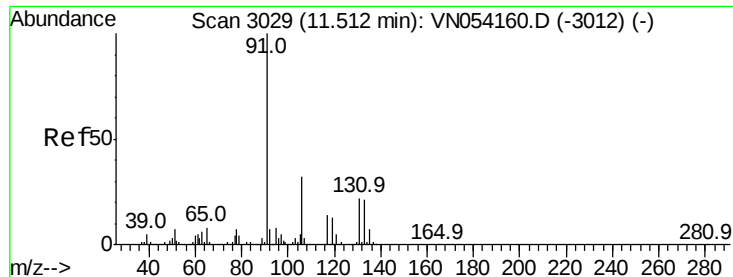
Ion Ratio Lower Upper

131 100

133 95.9 47.6 142.9

119 65.6 32.4 97.0





#67

Ethyl Benzene

Concen: 20.404 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampled :

VN0318MBSD02

Tot Ion: 91 Resp: 1281220

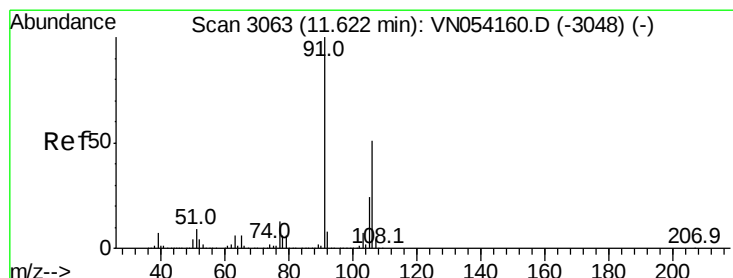
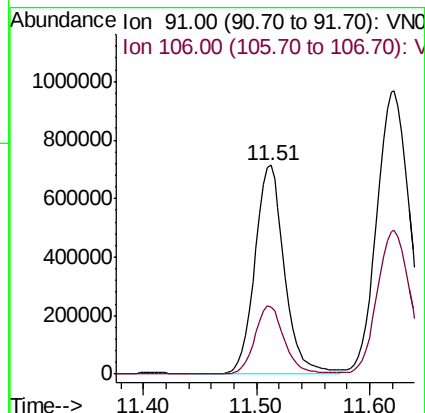
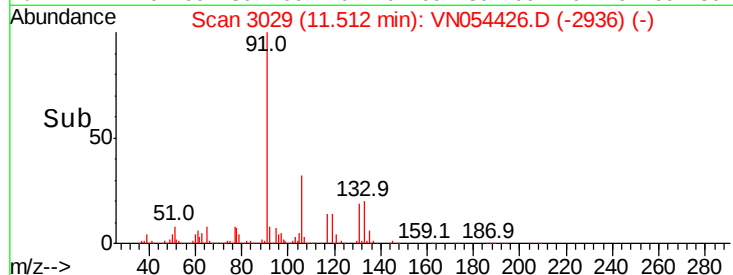
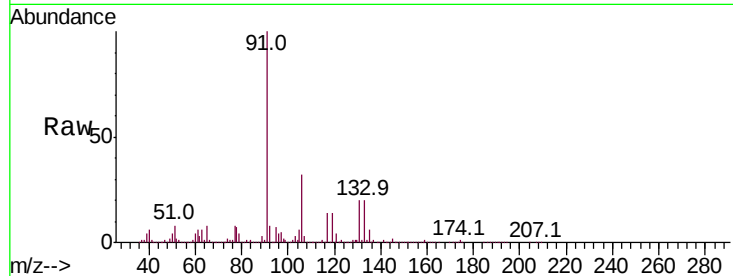
Ion Ratio Lower Upper

91 100

106 32.4 25.5 38.3

Manual Integrations
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#68

m/p-Xylenes

Concen: 40.516 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN054426.D

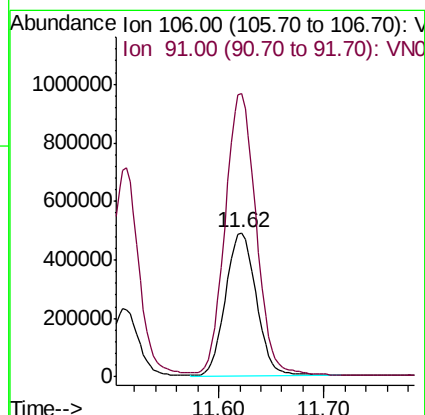
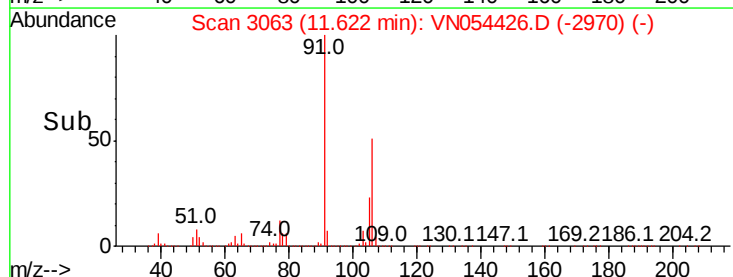
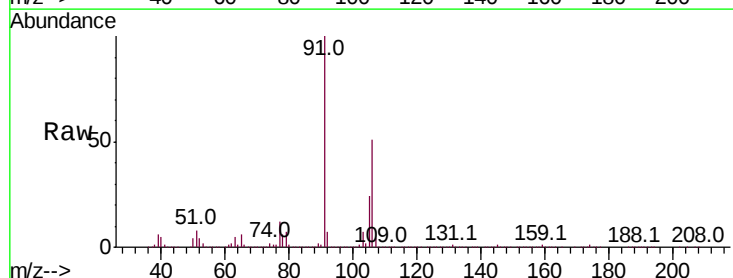
Acq: 19 Mar 2019 6:52

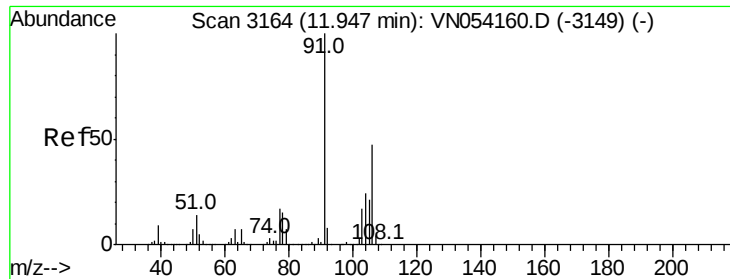
Tgt Ion: 106 Resp: 994345

Ion Ratio Lower Upper

106 100

91 197.8 159.4 239.2





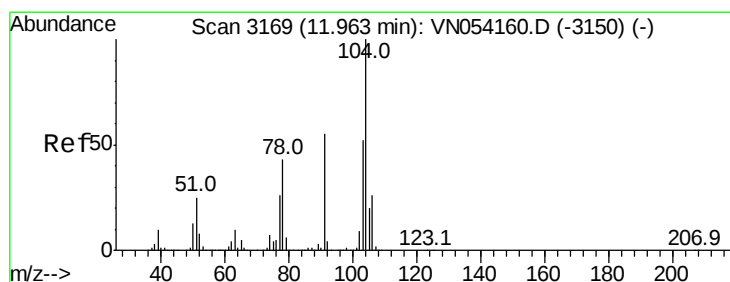
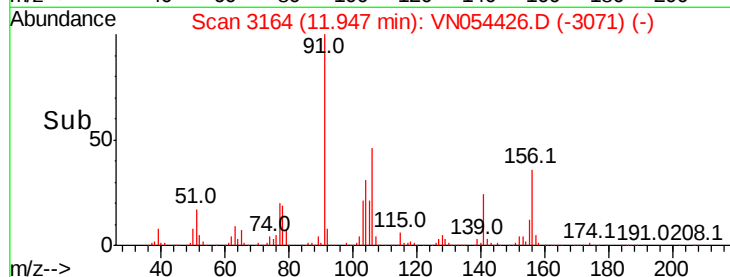
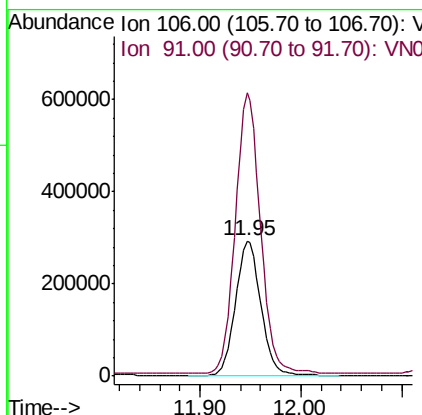
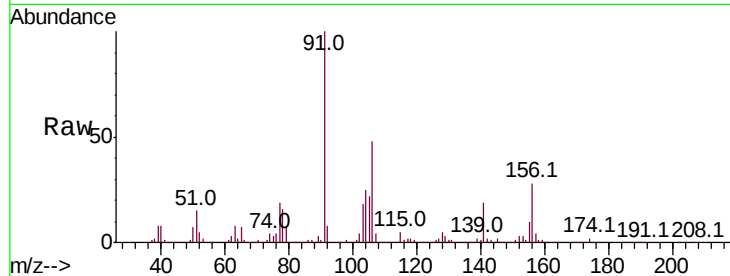
#69
o-Xylene
Concen: 21.146 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampled :
VN0318MBSD02

Tot Ion:106 Resp: 505892
Ion Ratio Lower Upper
106 100
91 207.1 105.7 317.1

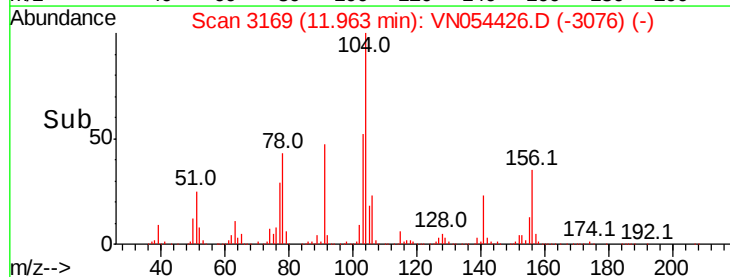
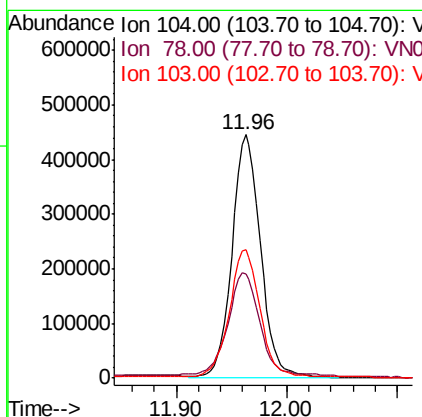
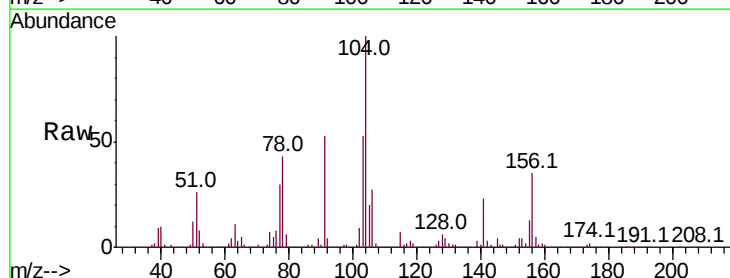
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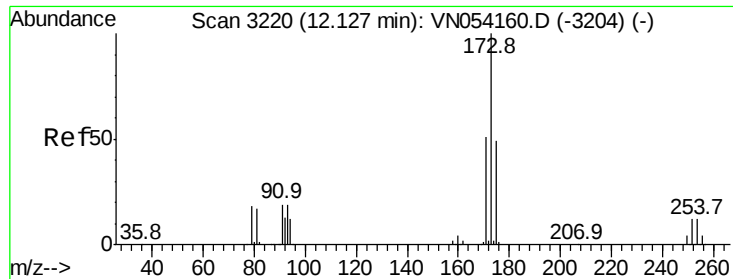
MMDadoda
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#70
Styrene
Concen: 21.138 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion:104 Resp: 793116
Ion Ratio Lower Upper
104 100
78 49.5 38.2 57.2
103 56.5 44.4 66.6





#71

Bromoform

Concen: 17.419 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

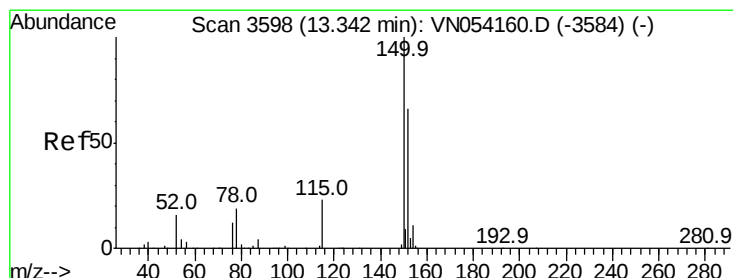
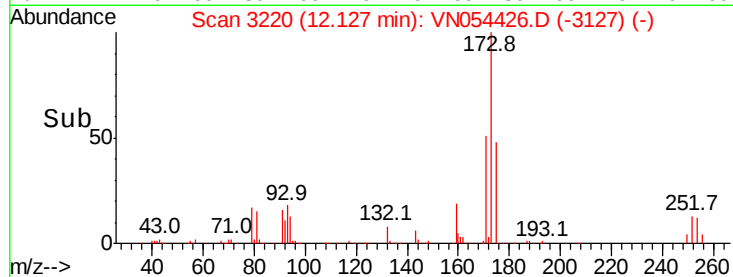
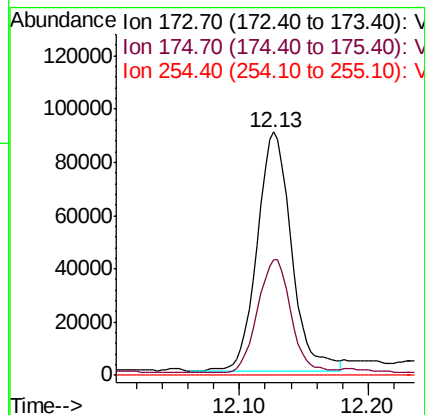
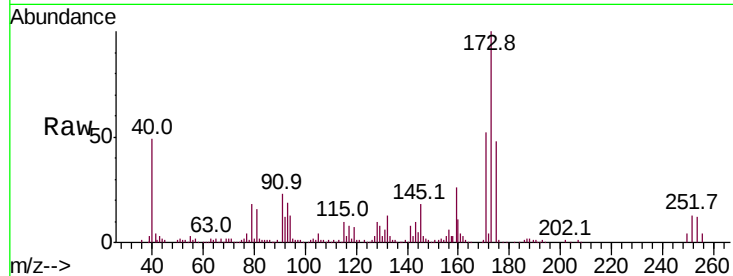
ClientSampleId :

VN0318MBSD02

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.2	24.4	73.2
254	0.1	0.1	0.1

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

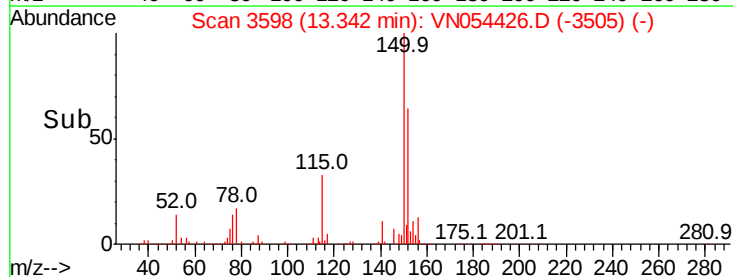
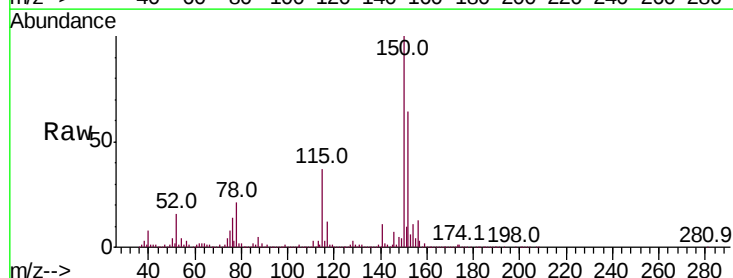
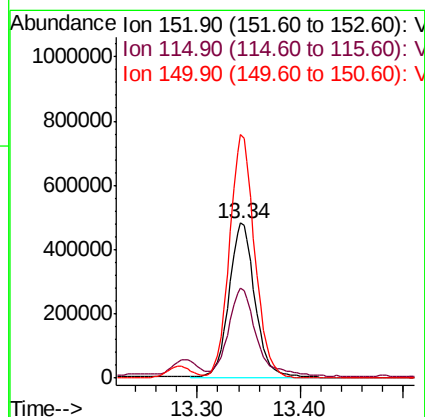
RT: 13.34 min Scan# 3598

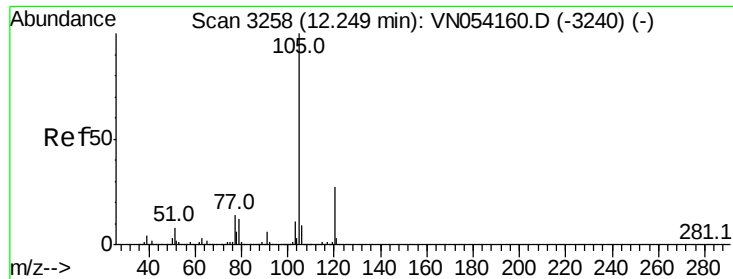
Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.7	27.2	81.6
150	153.1	0.0	349.2





#73

Isopropylbenzene

Concen: 19.562 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

Tot Ion:105 Resp: 1318896

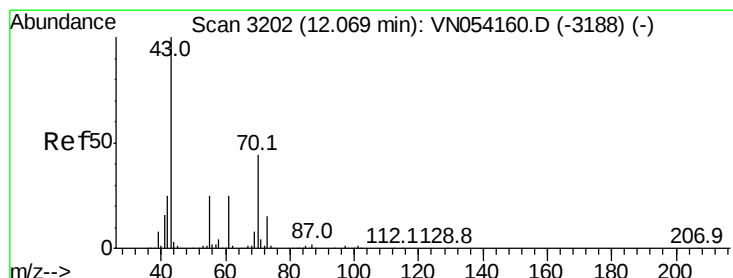
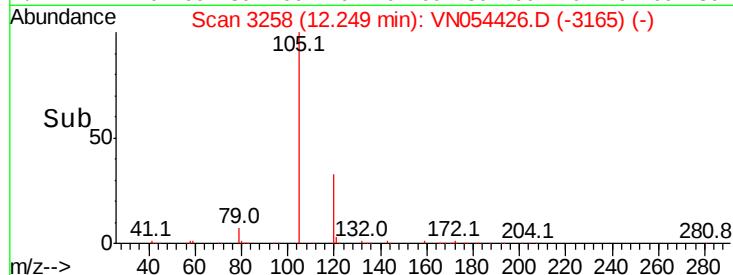
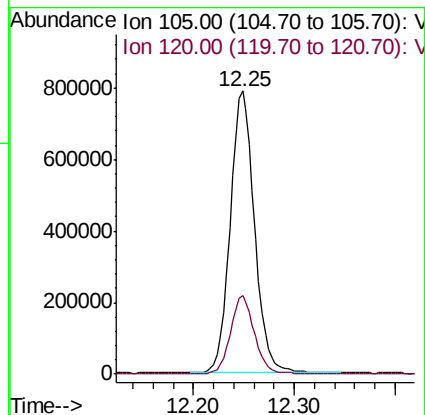
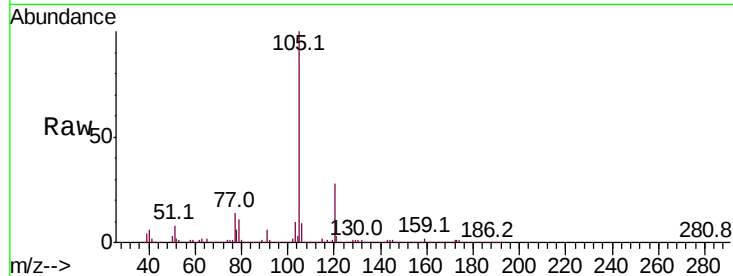
Ion Ratio Lower Upper

105 100

120 27.4 13.8 41.3

Manual Integrations
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#74

N-ethyl acetate

Concen: 19.888 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Tgt Ion: 43 Resp: 297623

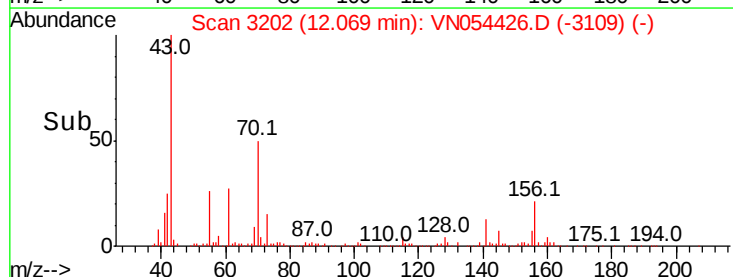
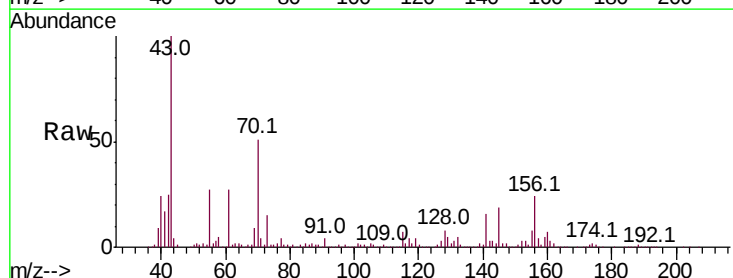
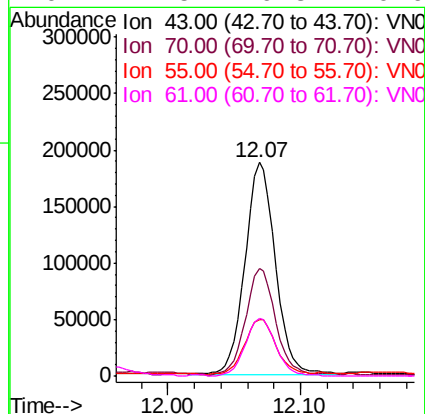
Ion Ratio Lower Upper

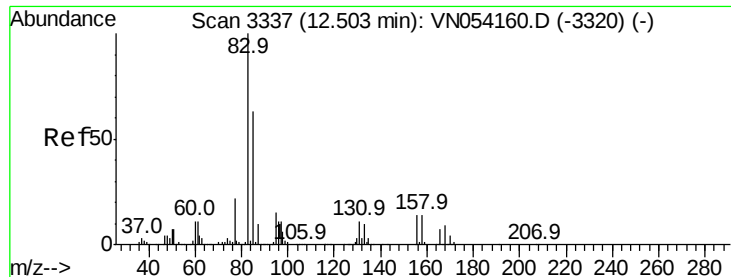
43 100

70 51.3 35.4 53.0

55 26.9 19.8 29.6

61 27.5 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 20.723 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

Tot Ion: 83 Resp: 297668

Ion Ratio Lower Upper

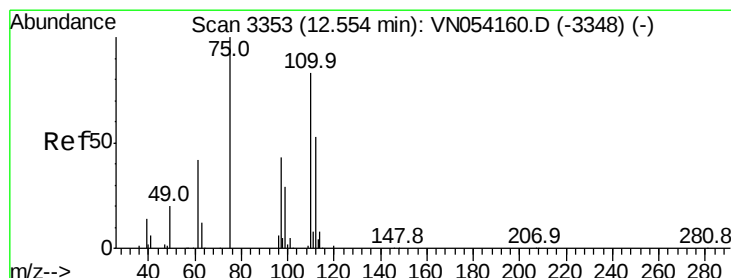
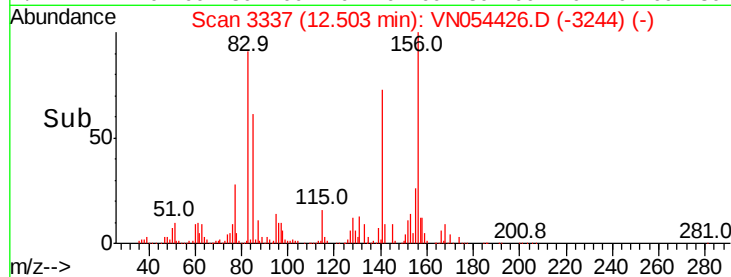
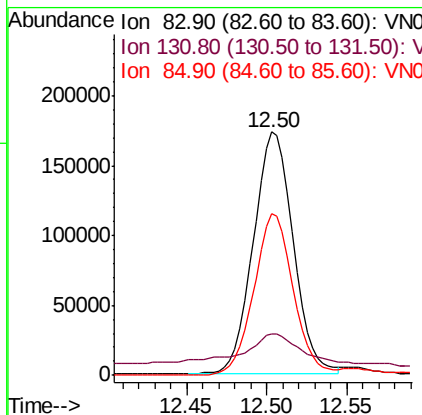
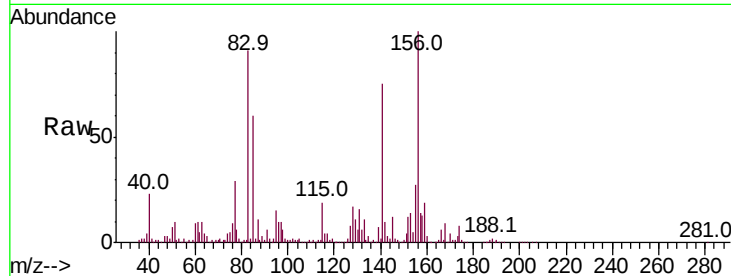
83 100

131 16.6 5.8 17.4

85 65.1 32.2 96.6

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#76

1,2,3-Trichloropropane

Concen: 24.526 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN054426.D

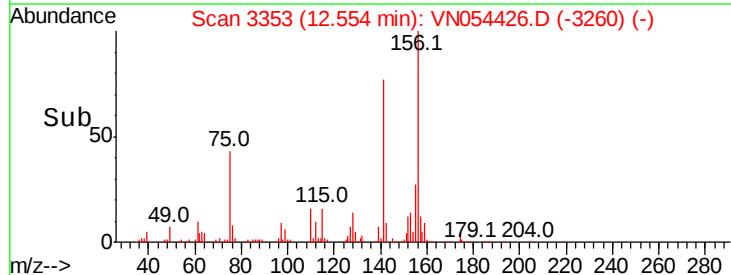
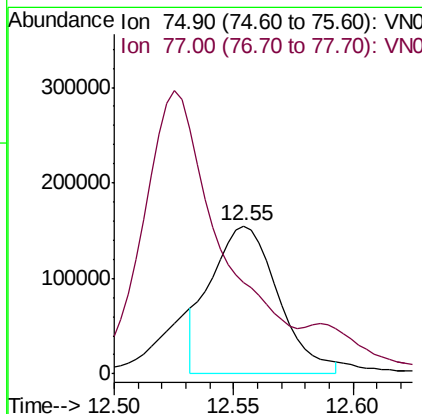
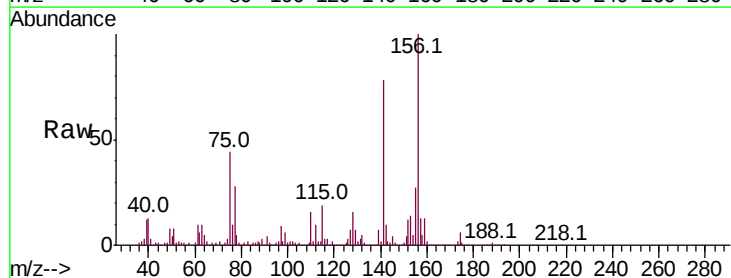
Acq: 19 Mar 2019 6:52

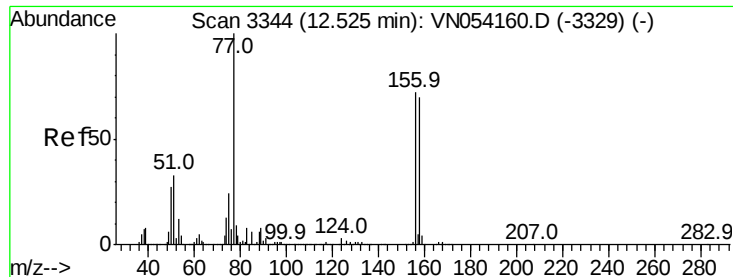
Tgt Ion: 75 Resp: 303931

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 135.147 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

Tot Ion:156 Resp: 2411096

Ion Ratio Lower Upper

156 100

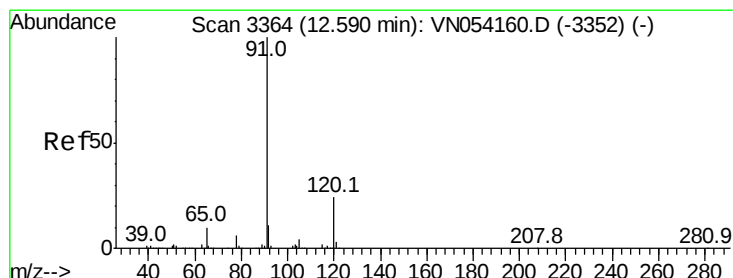
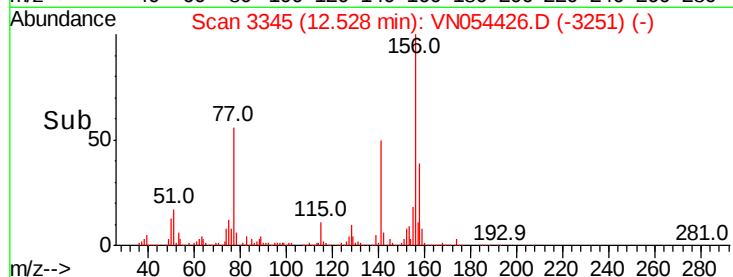
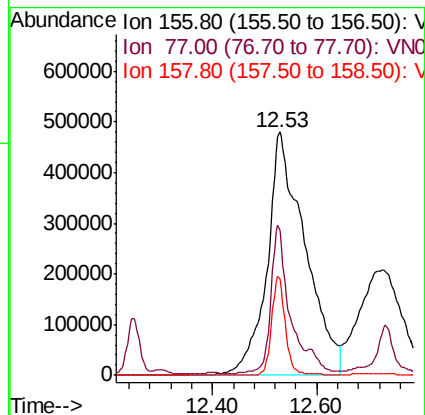
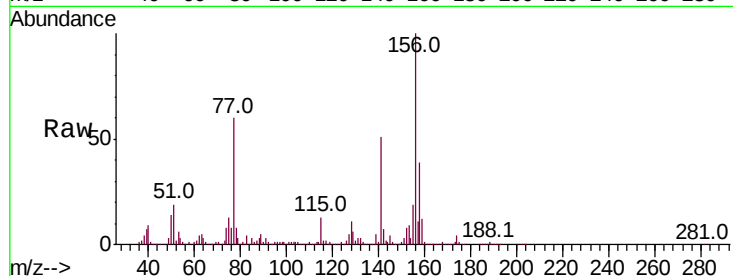
77 28.1 81.5 244.4#

158 14.2 49.0 147.2#

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#78

n-propylbenzene

Concen: 18.790 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054426.D

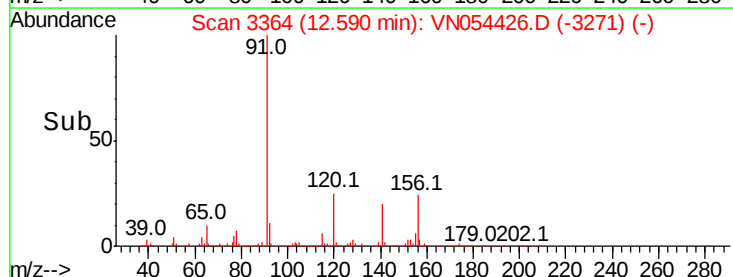
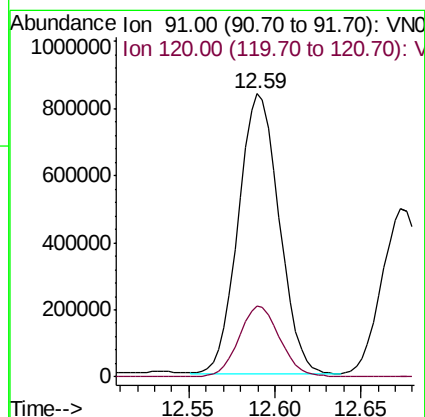
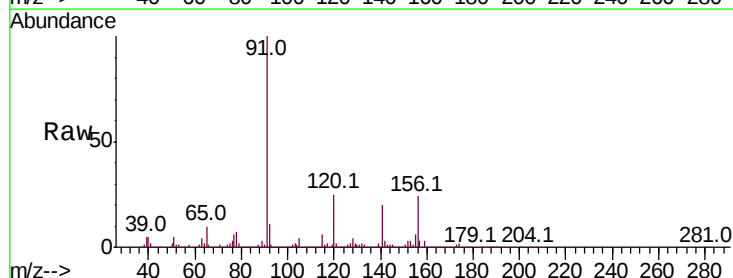
Acq: 19 Mar 2019 6:52

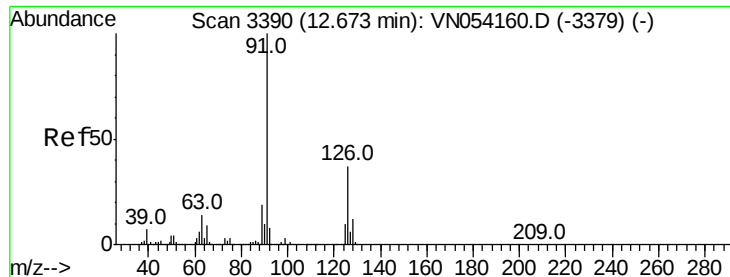
Tgt Ion: 91 Resp: 1374584

Ion Ratio Lower Upper

91 100

120 25.2 12.3 36.9





#79

2-Chlorotoluene

Concen: 19.051 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

Tot Ion: 91 Resp: 837967

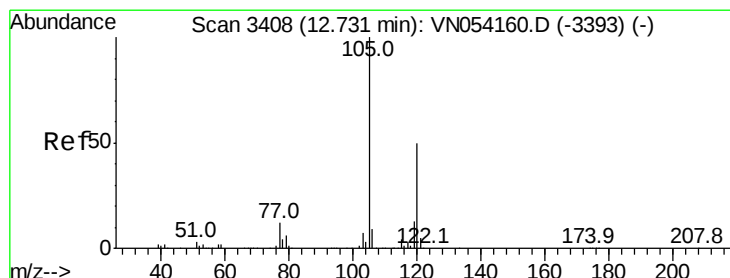
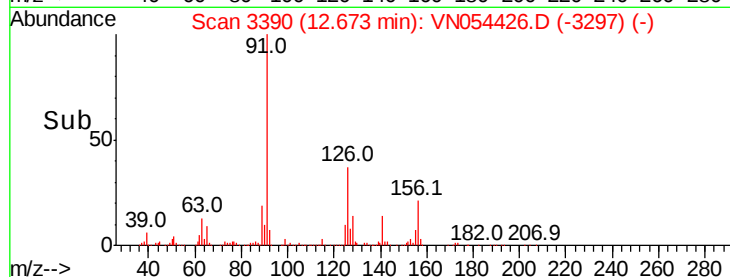
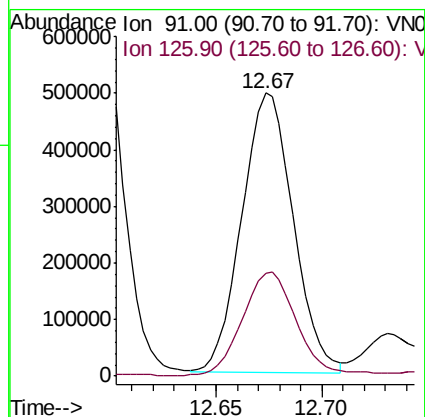
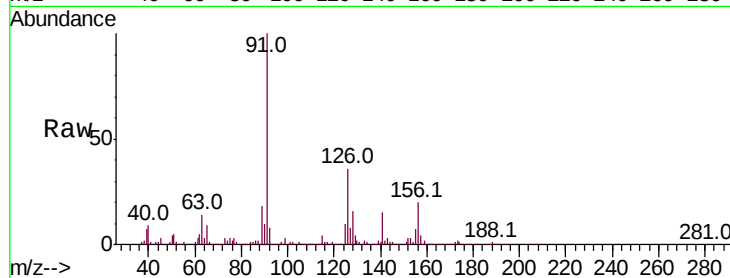
Ion Ratio Lower Upper

91 100

126 39.6 18.7 56.1

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#80

1,3,5-Trimethylbenzene

Concen: 20.334 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054426.D

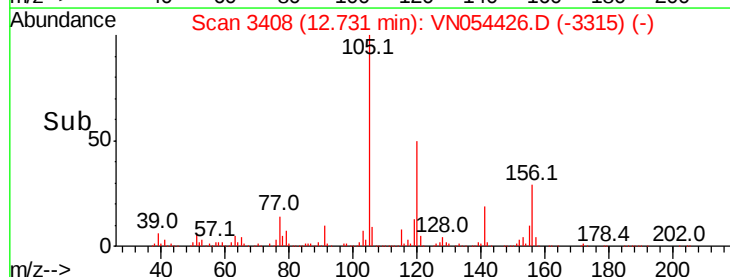
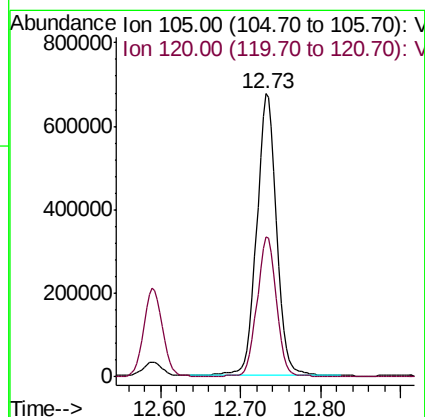
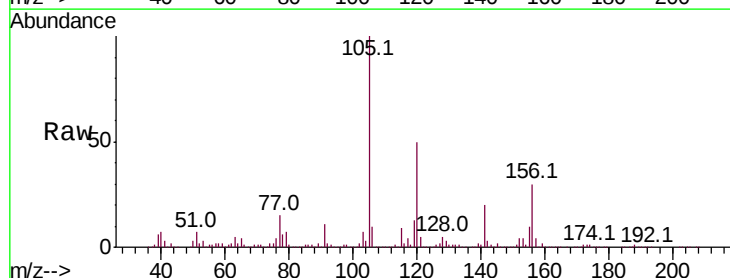
Acq: 19 Mar 2019 6:52

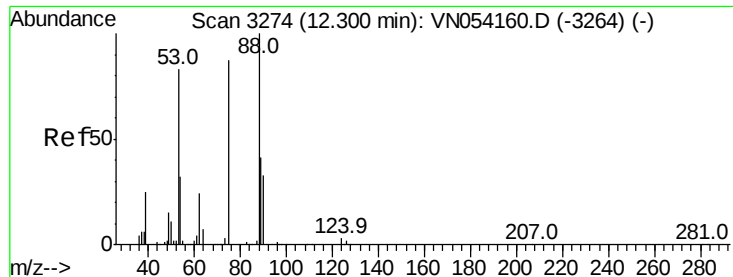
Tgt Ion: 105 Resp: 1140325

Ion Ratio Lower Upper

105 100

120 47.8 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 11.958 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

Tot Ion: 75 Resp: 43347

Ion Ratio Lower Upper

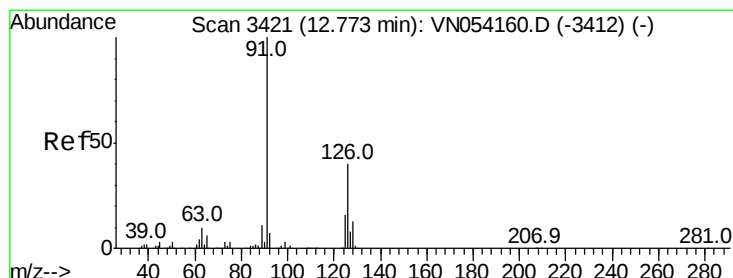
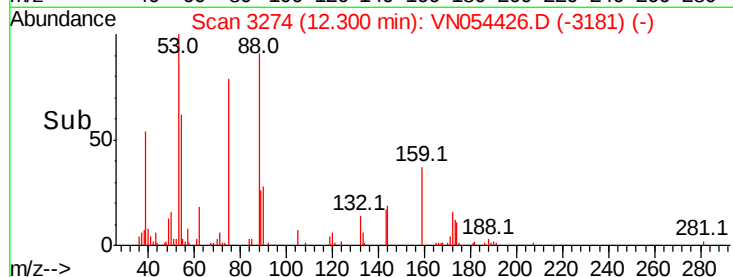
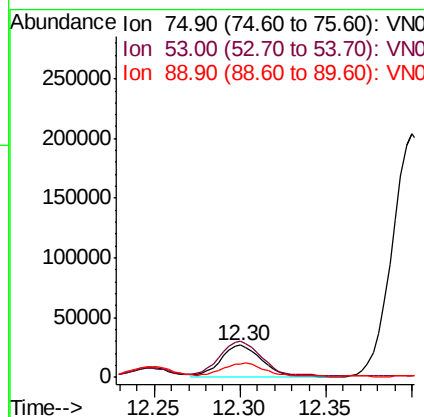
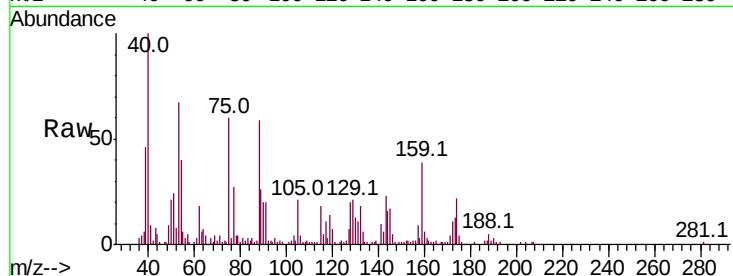
75 100

53 117.2 76.2 114.2#

89 43.1 39.2 58.8

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#82

4-Chlorotoluene

Concen: 18.849 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN054426.D

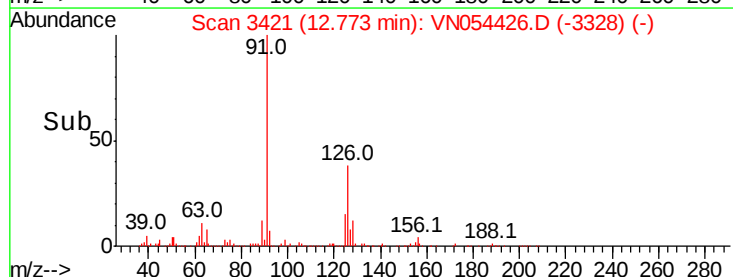
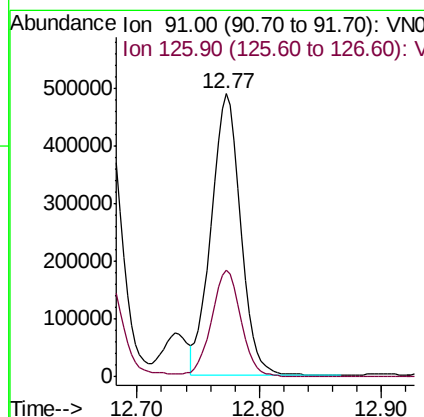
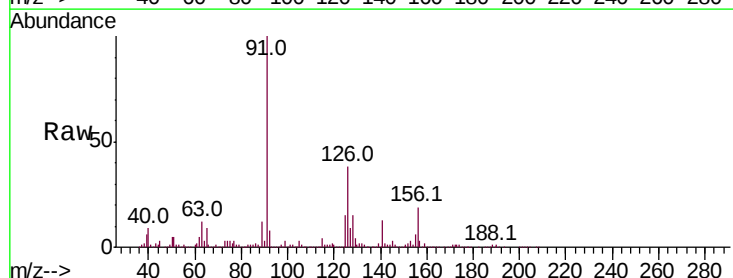
Acq: 19 Mar 2019 6:52

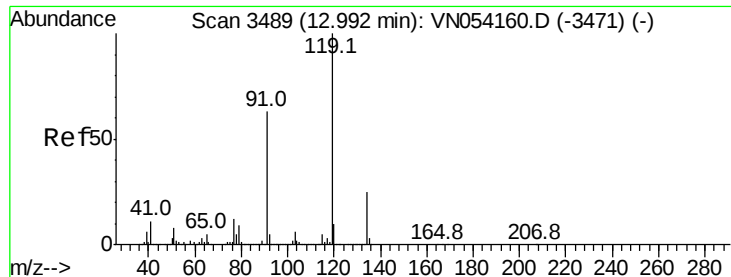
Tgt Ion: 91 Resp: 827881

Ion Ratio Lower Upper

91 100

126 37.8 18.1 54.1





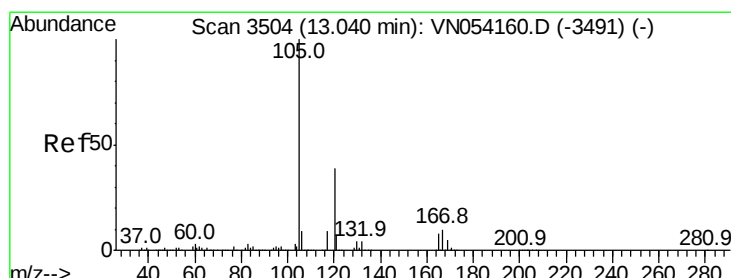
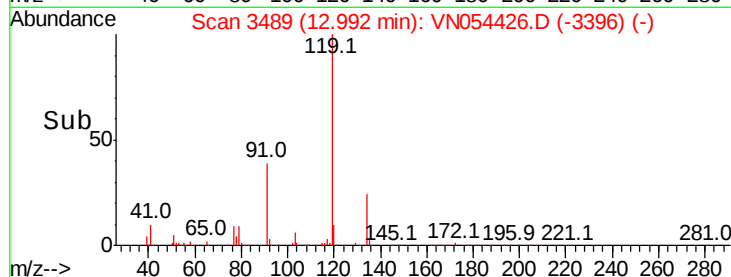
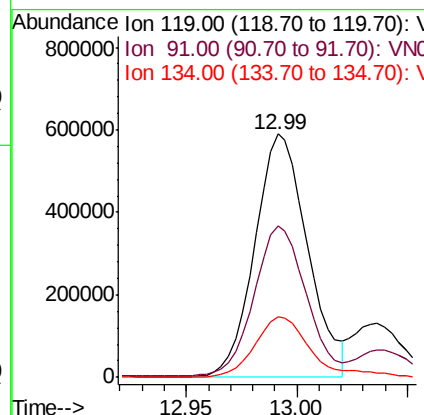
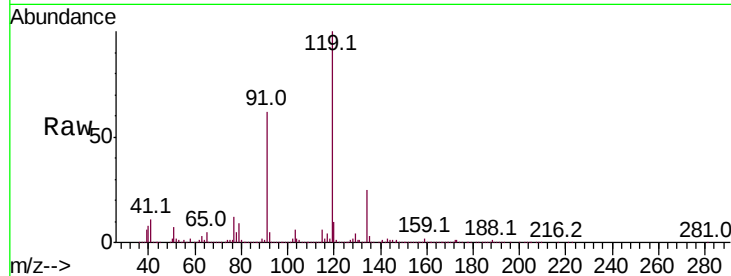
#83
tert-Butylbenzene
Concen: 18.858 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

Tot Ion	Ratio	Lower	Upper
119	100		
91	60.5	30.9	92.8
134	26.7	13.2	39.6

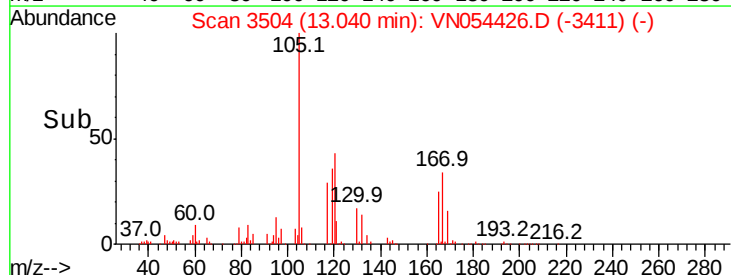
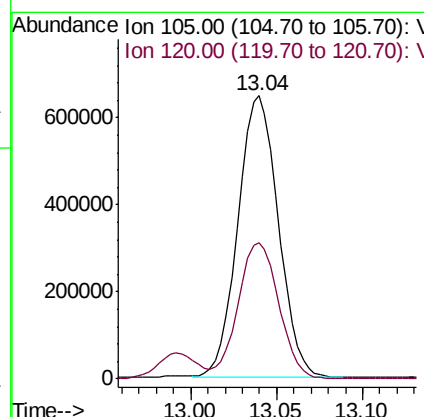
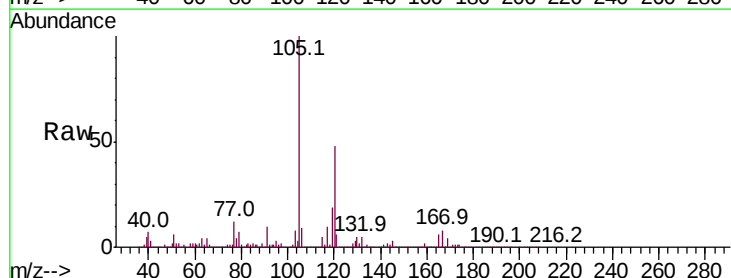
Manual Integrations
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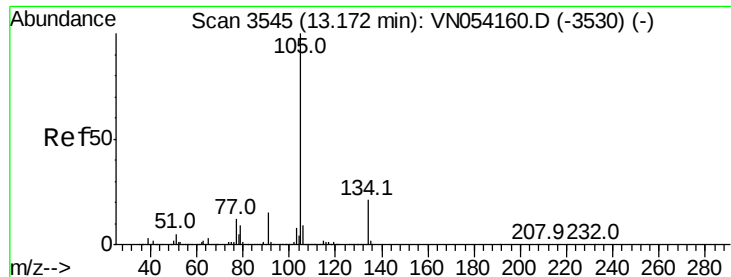
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 19.236 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.7	23.4	70.3





#85

sec-Butylbenzene

Concen: 18.187 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

VN0318MBSD02

Tot Ion:105 Resp: 1217442

Ion Ratio Lower Upper

105 100

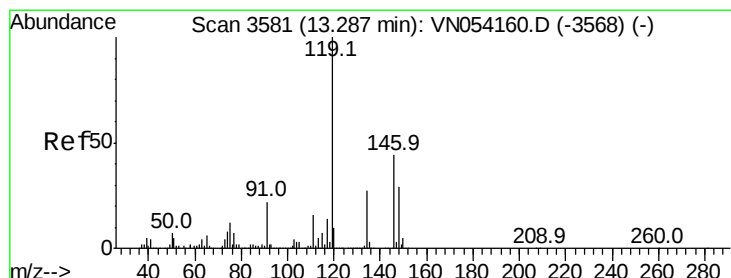
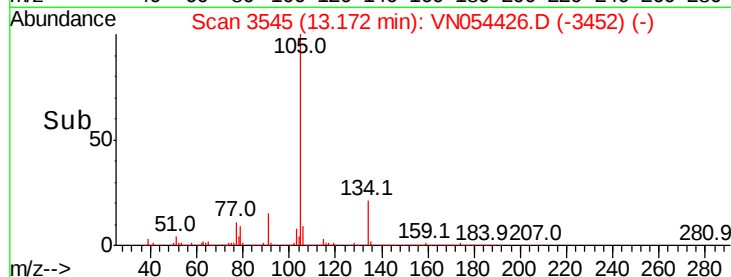
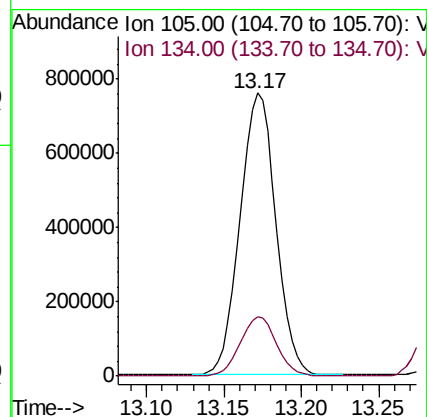
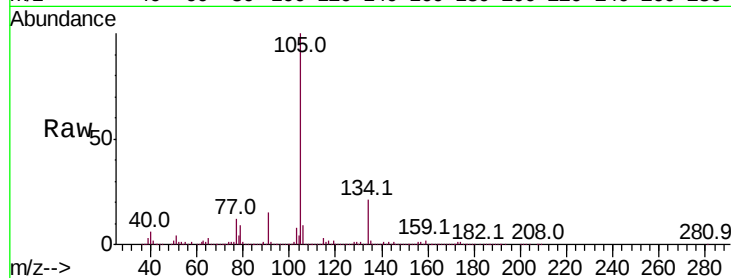
134 21.5 10.7 32.1

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#86

p-Isopropyltoluene

Concen: 18.541 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

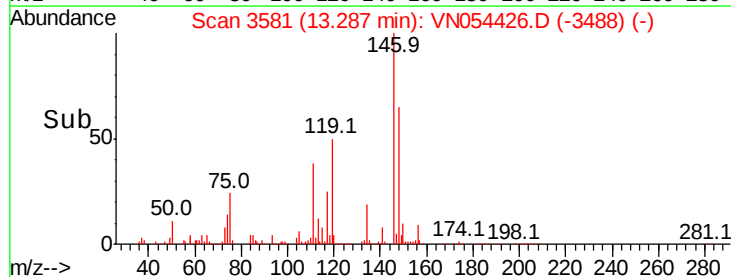
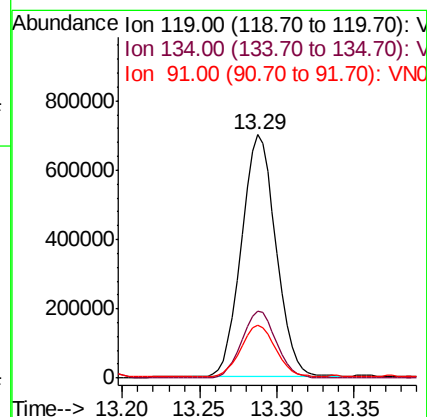
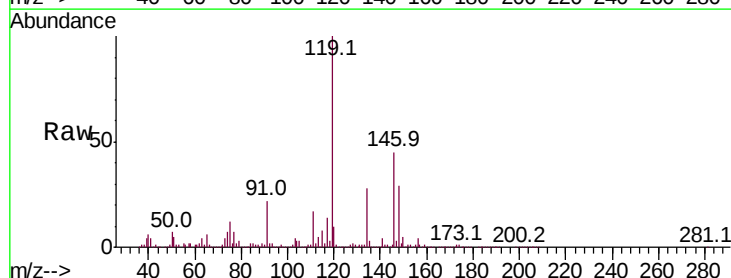
Tgt Ion:119 Resp: 1088881

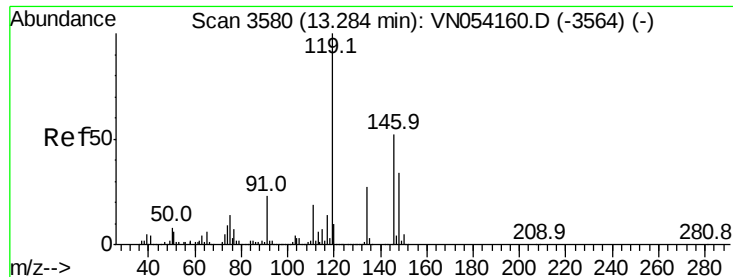
Ion Ratio Lower Upper

119 100

134 27.5 13.6 40.8

91 21.1 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 19.038 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN054426.D

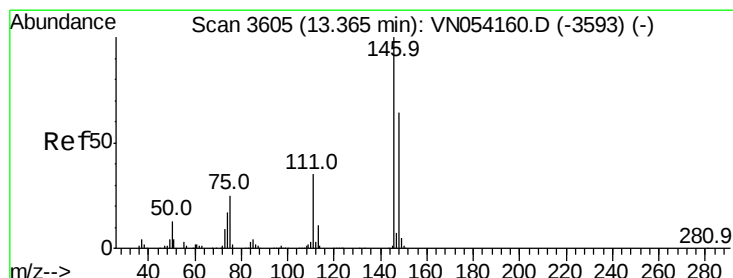
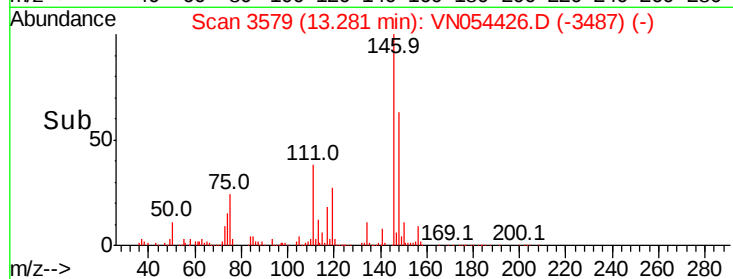
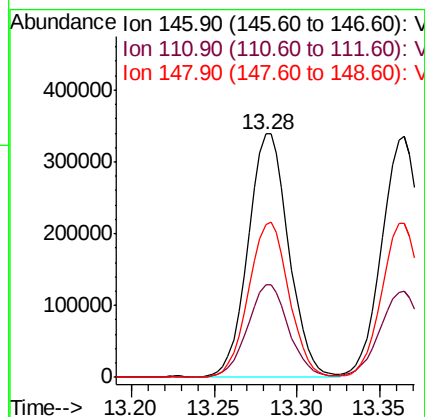
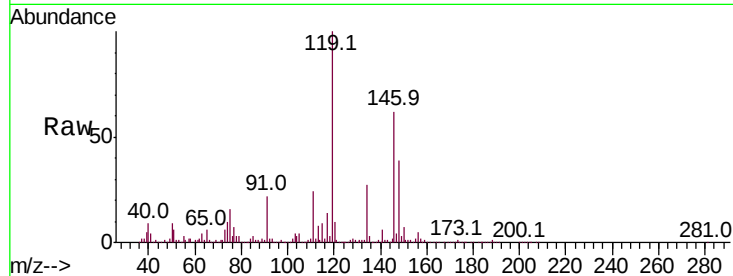
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	18.8	56.3
148	63.7	32.2	96.6

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 18.966 ug/l

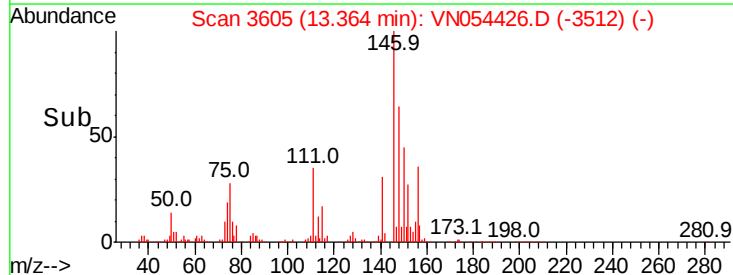
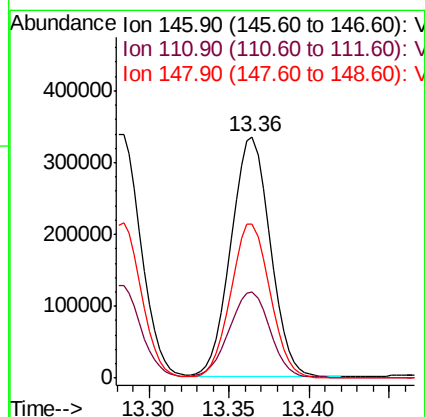
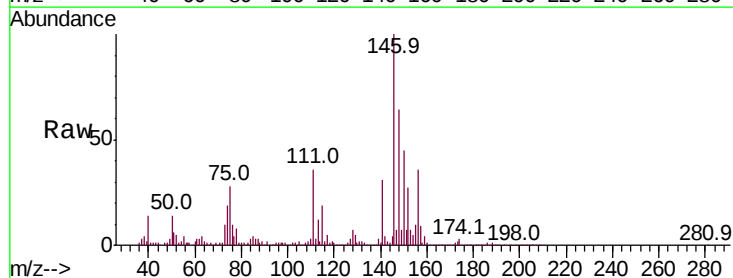
RT: 13.36 min Scan# 3605

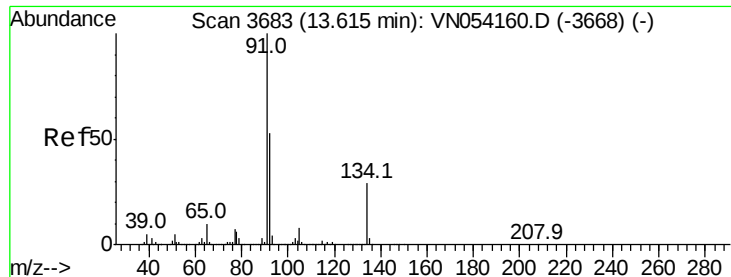
Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.1	54.1
148	64.3	32.0	96.0





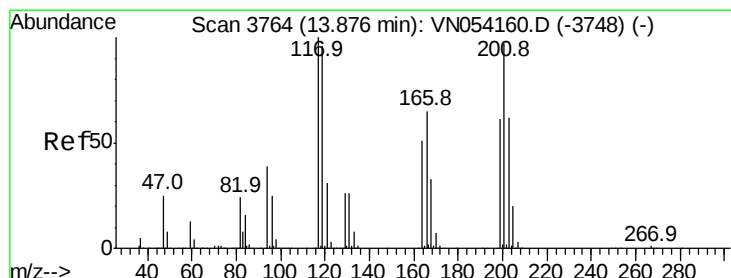
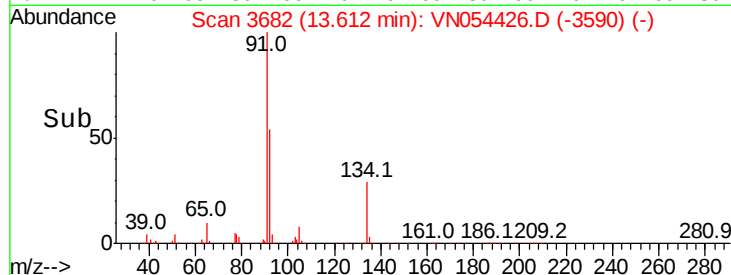
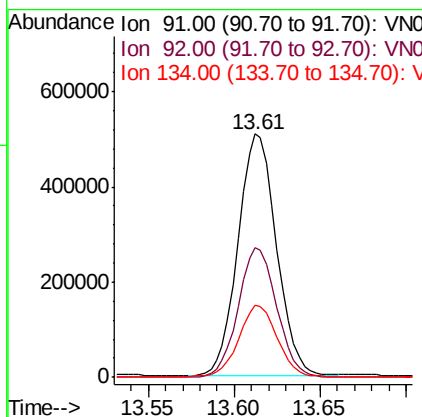
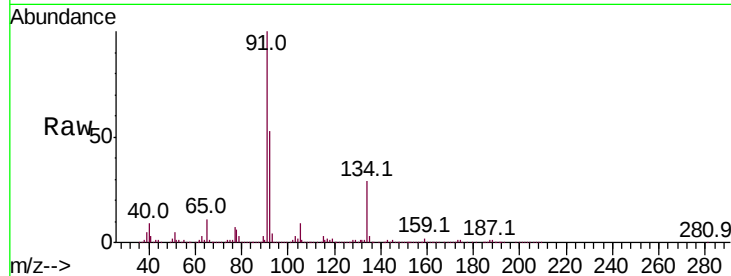
#89
n-Butylbenzene
Concen: 17.586 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.2	78.6
134	30.4	14.3	42.9

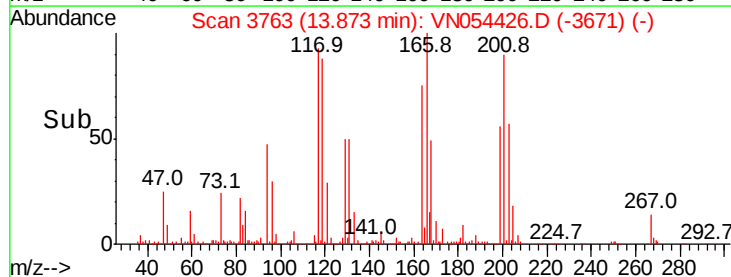
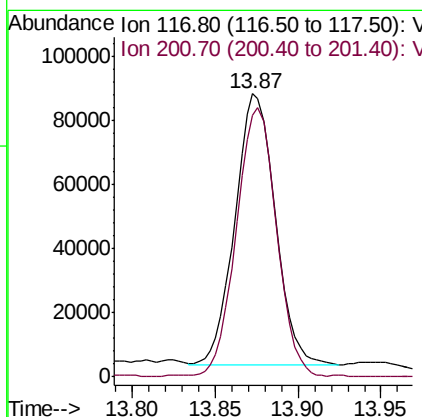
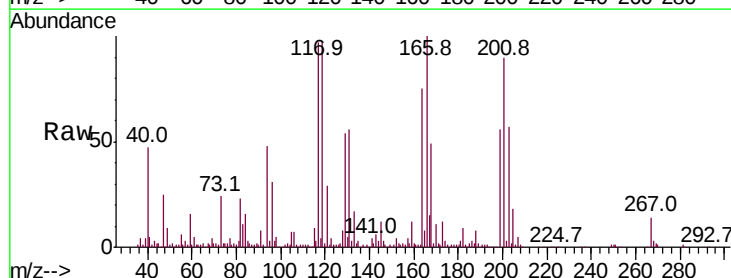
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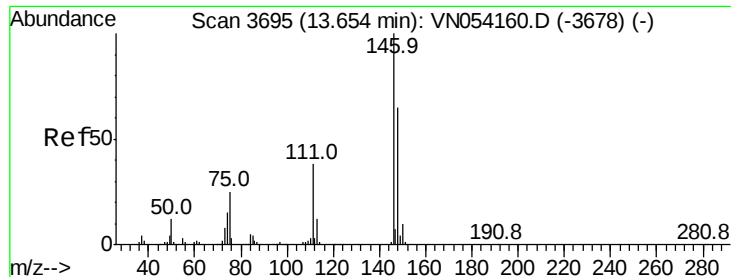
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#90
Hexachloroethane
Concen: 14.768 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Lower	Upper
117	100		
201	97.9	48.1	144.4





#91

1,2-Dichlorobenzene

Concen: 20.342 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Instrument :

MSVOA_N

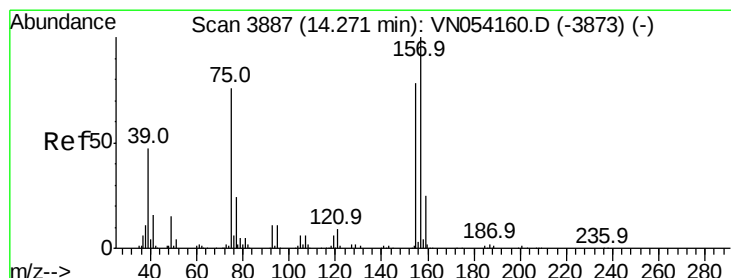
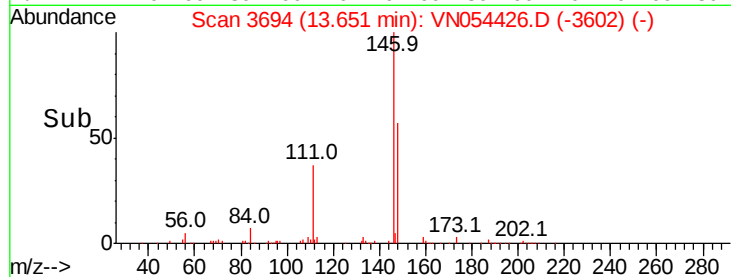
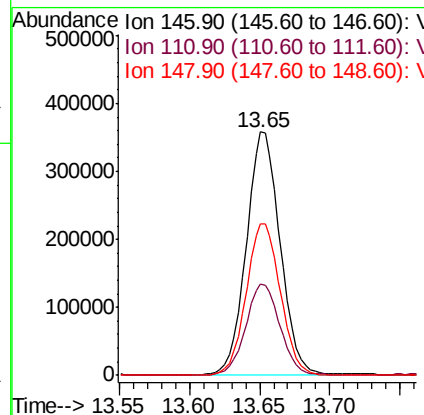
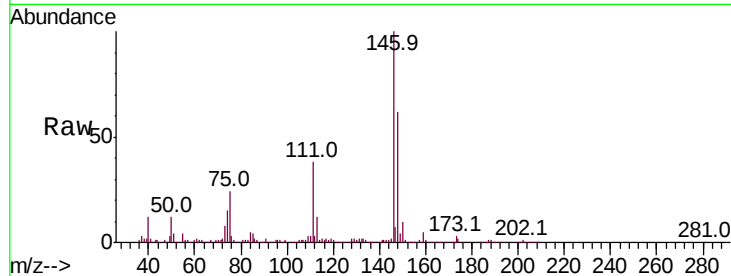
ClientSampleId :

VN0318MBSD02

Tot Ion:	146	Resp:	597810
Ion Ratio	Lower	Upper	
146	100		
111	37.6	19.1	57.3
148	63.0	32.4	97.0

Manual Integrations
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3/19/2019 9:23:07 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.033 ug/l

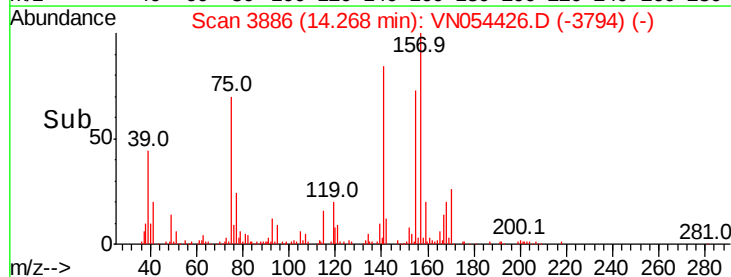
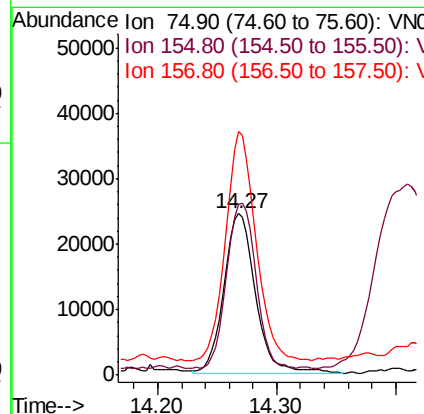
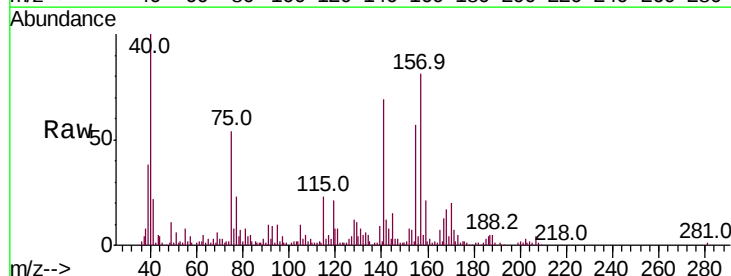
RT: 14.27 min Scan# 3886

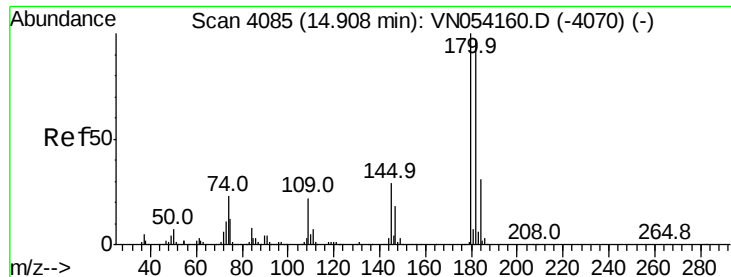
Delta R.T. -0.00 min

Lab File: VN054426.D

Acq: 19 Mar 2019 6:52

Tgt Ion:	75	Resp:	44528
Ion Ratio	Lower	Upper	
75	100		
155	97.5	50.1	150.3
157	138.5	63.1	189.3





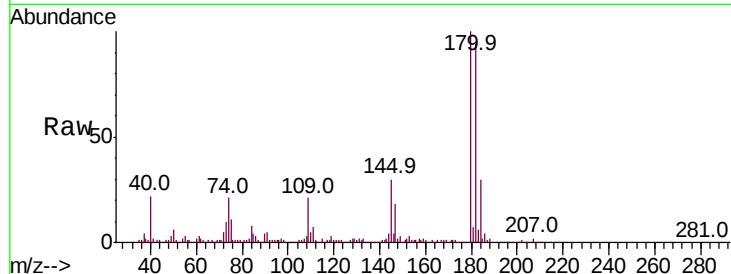
#93
 1,2,4-Trichlorobenzene
 Concen: 19.809 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054426.D
 Acq: 19 Mar 2019 6:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318MBSD02

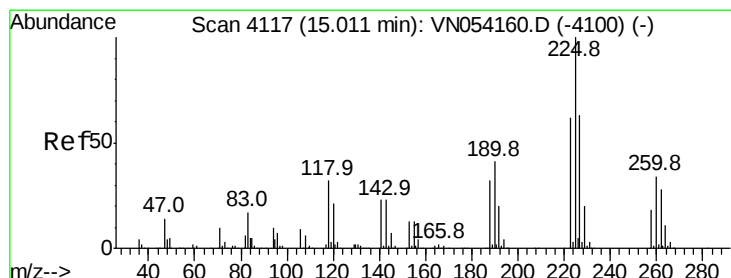
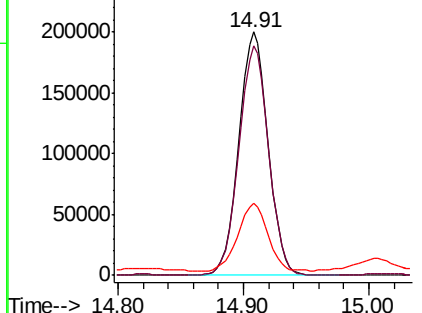
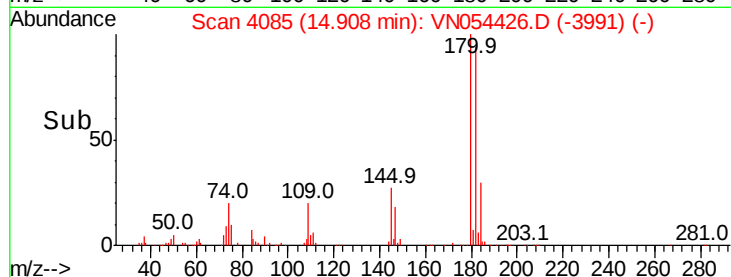
Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.4	48.0	144.2	
145	29.1	14.2	42.8	

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 9:23:07 AM

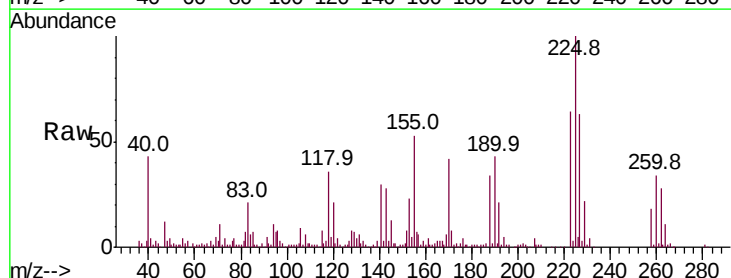


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

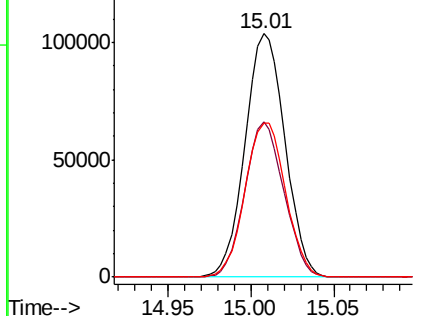
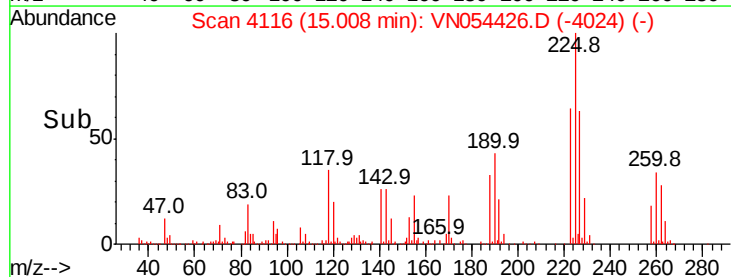


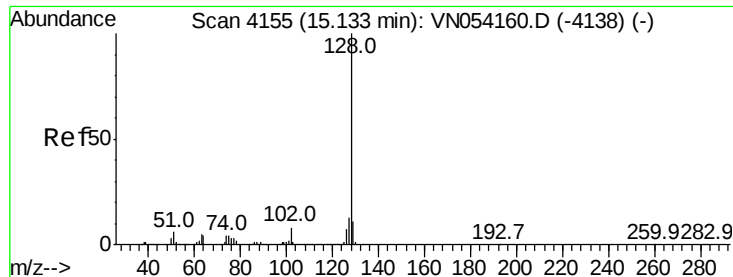
#94
 Hexachlorobutadiene
 Concen: 15.502 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN054426.D
 Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.1	31.1	93.5	
227	64.5	31.9	95.9	



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





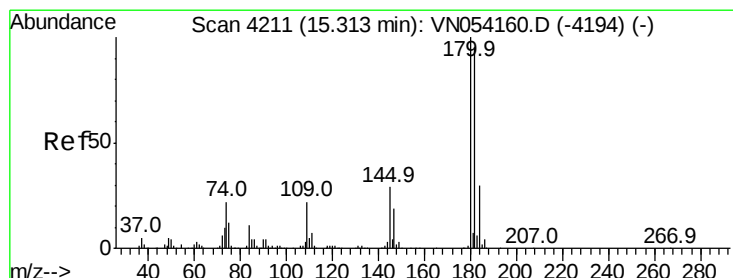
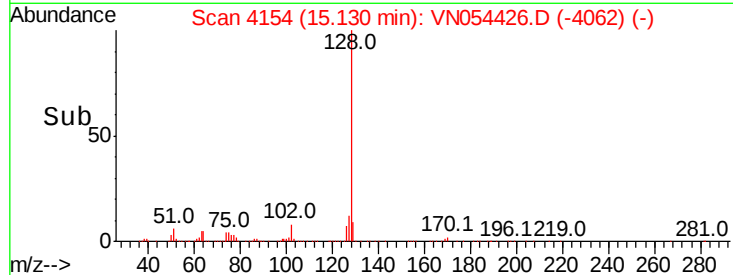
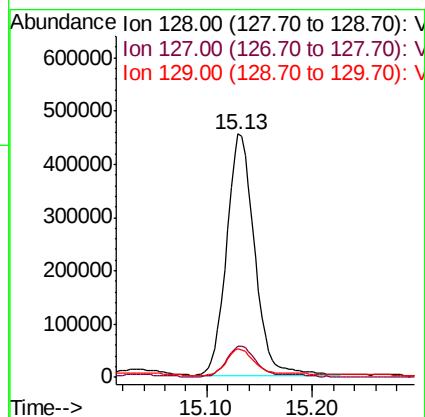
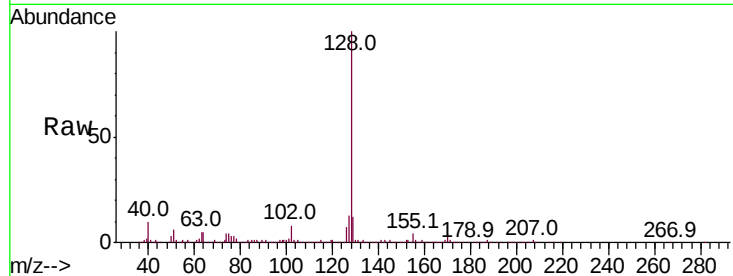
#95
Naphthalene
Concen: 24.368 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :
VN0318MBS02

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.1	15.1
129	11.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/19/2019 9:23:07 AM



#96
1,2,3-Trichlorobenzene
Concen: 21.387 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN054426.D
Acq: 19 Mar 2019 6:52

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.5	142.6
145	32.2	14.8	44.3

