

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081819\
 Data File : VN057361.D
 Acq On : 16 Aug 2019 18:22
 Operator : JC/SP
 Sample : VN0818WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0818WBS01

Manual Integrations
 APPROVED

MMDadoda
 8/19/2019 12:19:23 PM

Quant Time: Aug 19 09:15:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 15 11:33:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	865491	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1283113	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1130108	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	393958	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	484257	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	
35) Dibromofluoromethane	7.58	113	439595	52.26	ug/l	0.00
Spiked Amount			Recovery	=	104.52%	
50) Toluene-d8	10.08	98	1632758	53.07	ug/l	0.00
Spiked Amount			Recovery	=	106.14%	
62) 4-Bromofluorobenzene	12.40	95	511041	47.01	ug/l	0.00
Spiked Amount			Recovery	=	94.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	136244	18.294	ug/l	98
3) Chloromethane	2.05	50	156754	17.832	ug/l	99
4) Vinyl Chloride	2.18	62	153402	18.549	ug/l	98
5) Bromomethane	2.54	94	121512m	20.612	ug/l	
6) Chloroethane	2.69	64	104185	18.314	ug/l	98
7) Trichlorofluoromethane	3.02	101	248014	19.119	ug/l	97
8) Diethyl Ether	3.40	74	94578	19.371	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	148144	19.438	ug/l	98
10) Methyl Iodide	3.95	142	233190	19.141	ug/l	99
11) Tert butyl alcohol	4.76	59	120837	90.339	ug/l	98
12) 1,1-Dichloroethene	3.73	96	148473	19.552	ug/l	95
13) Acrolein	3.60	56	55176	67.950	ug/l	100
14) Allyl chloride	4.32	41	222989	18.319	ug/l	98
15) Acrylonitrile	4.97	53	347687	95.743	ug/l	99
16) Acetone	3.81	43	267383	81.921	ug/l	99
17) Carbon Disulfide	4.05	76	375281	18.344	ug/l	99
18) Methyl Acetate	4.31	43	170673	18.022	ug/l	95
19) Methyl tert-butyl Ether	5.03	73	463049	19.433	ug/l	97
20) Methylene Chloride	4.54	84	173180	18.964	ug/l	97
21) trans-1,2-Dichloroethene	5.03	96	155716	19.068	ug/l	98
22) Diisopropyl ether	5.93	45	460411	19.147	ug/l	96
23) Vinyl Acetate	5.88	43	1828050	94.461	ug/l	98
24) 1,1-Dichloroethane	5.84	63	283750	19.180	ug/l	99
25) 2-Butanone	6.82	43	425647	90.056	ug/l	95
26) 2,2-Dichloropropane	6.81	77	223870	18.725	ug/l	98
27) cis-1,2-Dichloroethene	6.82	96	184195	19.052	ug/l	99
28) Bromochloromethane	7.18	49	108104	16.446	ug/l #	96
29) Tetrahydrofuran	7.20	42	278473	93.099	ug/l	98
30) Chloroform	7.36	83	297617	19.197	ug/l	99
31) Cyclohexane	7.65	56	237612	18.534	ug/l	93
32) 1,1,1-Trichloroethane	7.56	97	258535	19.827	ug/l	98
36) 1,1-Dichloropropene	7.78	75	212765	18.780	ug/l	100
37) Ethyl Acetate	6.91	43	179840	19.381	ug/l	99
38) Carbon Tetrachloride	7.77	117	228843	19.441	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	250826	18.961	ug/l	99
40) Benzene	8.03	78	663371	19.144	ug/l	98
41) Methacrylonitrile	7.16	41	83259	19.925	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	216395	18.869	ug/l	99
43) Isopropyl Acetate	8.16	43	306983	17.354	ug/l	97
44) Trichloroethene	8.83	130	192108	19.720	ug/l	98
45) 1,2-Dichloropropane	9.11	63	169443	18.971	ug/l	97
46) Dibromomethane	9.20	93	117800	19.770	ug/l	99
47) Bromodichloromethane	9.40	83	225030	19.061	ug/l	99
48) Methyl methacrylate	9.19	41	144308	18.886	ug/l	99
49) 1,4-Dioxane	9.19	88	59661	371.286	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	896045	93.605	ug/l	100
52) Toluene	10.15	92	425390	19.723	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	245107	19.194	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	271249	19.262	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	168254	19.839	ug/l	99
56) Ethyl methacrylate	10.43	69	236698	19.125	ug/l	98
57) 1,3-Dichloropropane	10.71	76	271860	19.188	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	248941	79.934	ug/l	100
59) 2-Hexanone	10.75	43	618706	89.902	ug/l	98
60) Dibromochloromethane	10.90	129	191453	20.144	ug/l	99
61) 1,2-Dibromoethane	11.00	107	176483	19.535	ug/l	98
64) Tetrachloroethene	10.63	164	200738	20.547	ug/l	99
65) Chlorobenzene	11.43	112	457092	19.831	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	180021	20.394	ug/l	99
67) Ethyl Benzene	11.51	91	788033	19.542	ug/l	99
68) m/p-Xylenes	11.62	106	583508	39.274	ug/l	98
69) o-Xylene	11.95	106	288807	19.798	ug/l	100
70) Styrene	11.96	104	452515	19.460	ug/l	99
71) Bromoform	12.13	173	140172	20.128	ug/l #	99
73) Isopropylbenzene	12.25	105	772158	22.805	ug/l	99
74) N-amyl acetate	12.07	43	222612	19.473	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	216841	22.282	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	177911m	21.889	ug/l	
77) Bromobenzene	12.53	156	200818	22.599	ug/l	97
78) n-propylbenzene	12.59	91	756141	19.931	ug/l	100
79) 2-Chlorotoluene	12.67	91	486330	22.132	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	624642	22.282	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	64134	19.851	ug/l	98
82) 4-Chlorotoluene	12.77	91	434975	19.349	ug/l	98
83) tert-Butylbenzene	12.99	119	565563	22.623	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	584423	20.596	ug/l	100
85) sec-Butylbenzene	13.17	105	666100	21.487	ug/l	100
86) p-Isopropyltoluene	13.29	119	588150	20.245	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	279999	20.285	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	259147	19.778	ug/l	99
89) n-Butylbenzene	13.62	91	445010	21.487	ug/l	99
90) Hexachloroethane	13.88	117	115596	22.095	ug/l	95
91) 1,2-Dichlorobenzene	13.66	146	262991	20.439	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	24004	17.087	ug/l	95

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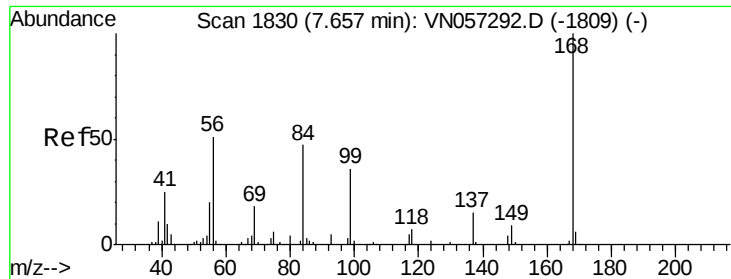
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	62903	16.271	ug/l	97
94) Hexachlorobutadiene	15.01	225	121729	22.158	ug/l	96
95) Naphthalene	15.13	128	124512	19.565	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	61015	19.401	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

VN0818WBS01

Tot Ion:168 Resp: 865491

Ion Ratio Lower Upper

168 100

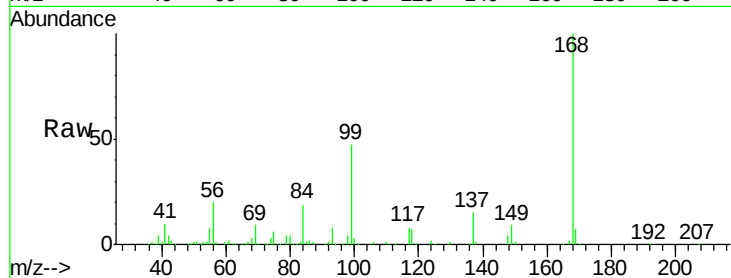
99 46.6 39.4 59.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

400000

300000

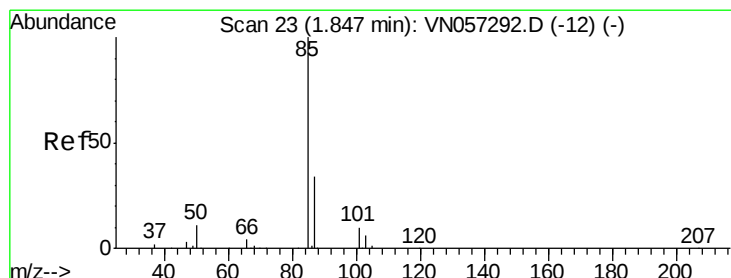
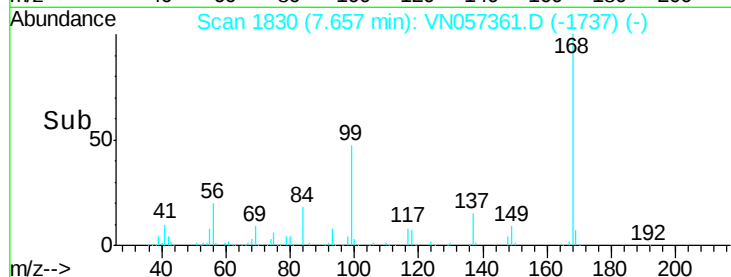
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 18.294 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN057361.D

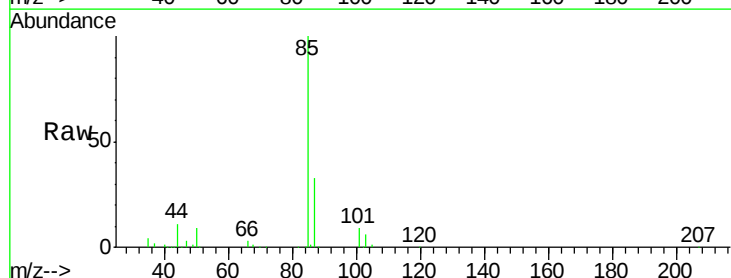
Acq: 16 Aug 2019 18:22

Tgt Ion: 85 Resp: 136244

Ion Ratio Lower Upper

85 100

87 32.7 16.9 50.7



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.85

100000

80000

60000

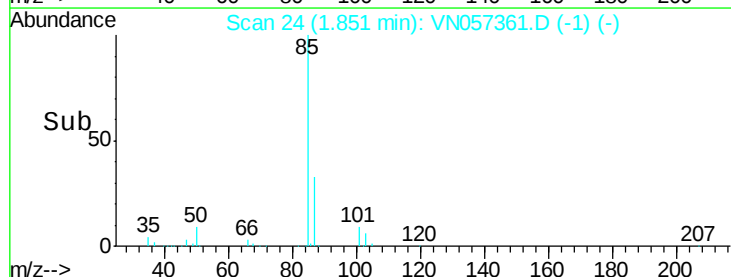
40000

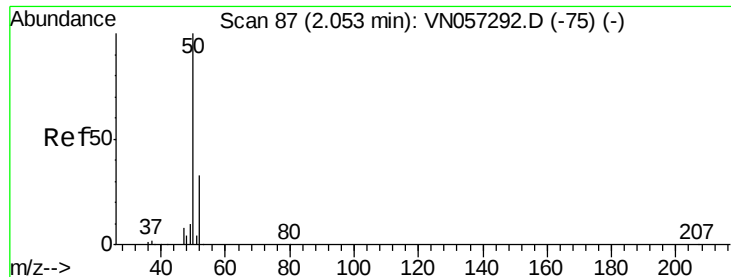
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 17.832 ug/l

RT: 2.05 min Scan# 87

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

VN0818WBS01

Tot Ion: 50 Resp: 156754

Ion Ratio Lower Upper

50 100

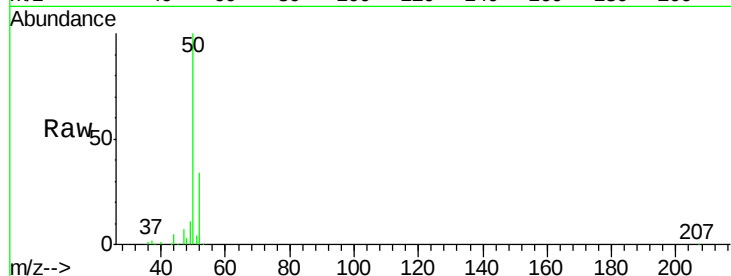
52 34.3 26.8 40.2

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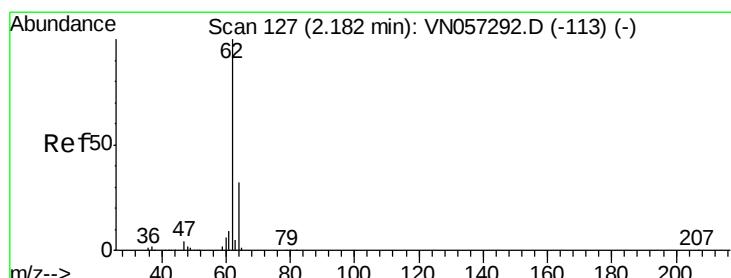
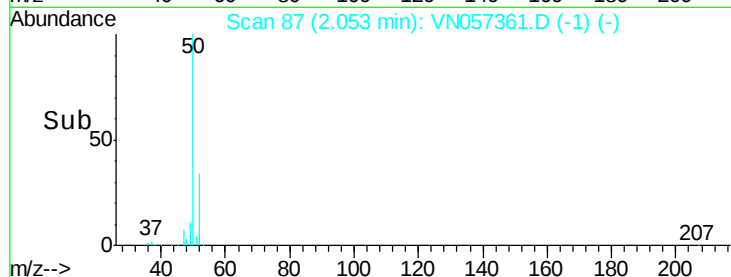
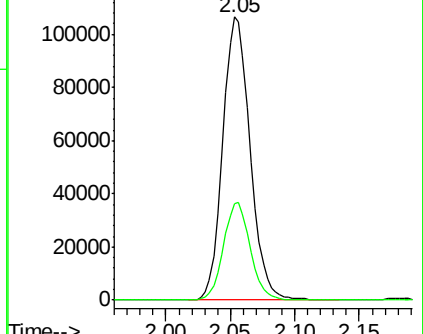
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 18.549 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN057361.D

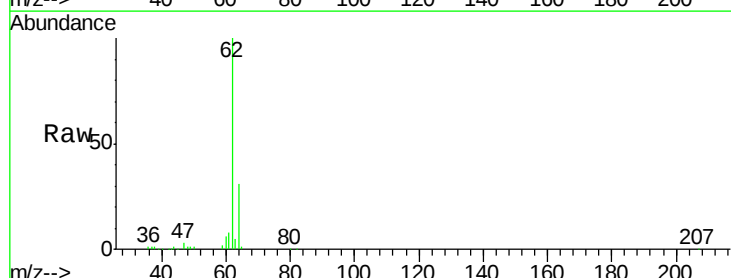
Acq: 16 Aug 2019 18:22

Tgt Ion: 62 Resp: 153402

Ion Ratio Lower Upper

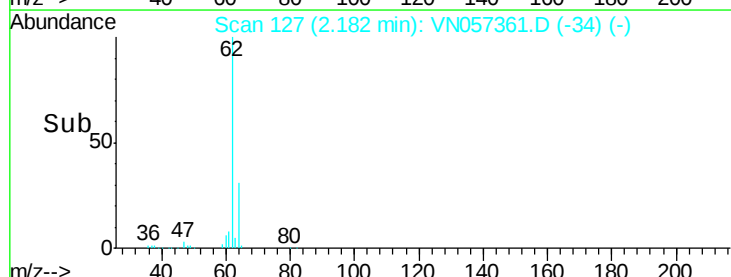
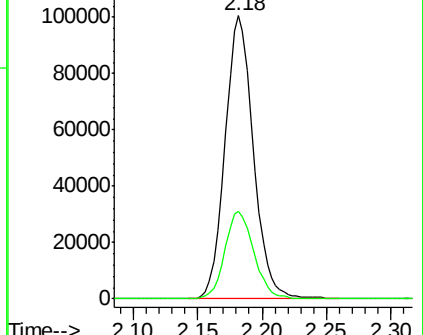
62 100

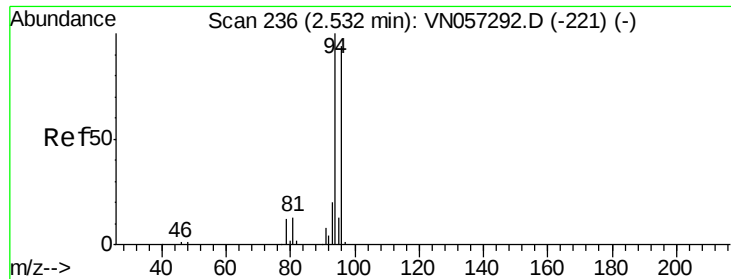
64 31.1 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 20.612 ug/l m

RT: 2.54 min Scan# 238

Delta R.T. 0.01 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

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VN0818WBS01

Tot Ion: 94 Resp: 121512

Ion Ratio Lower Upper

94 100

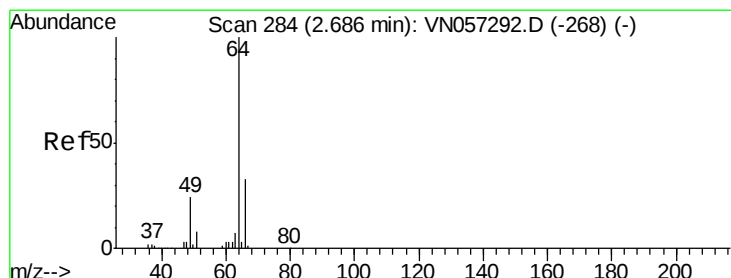
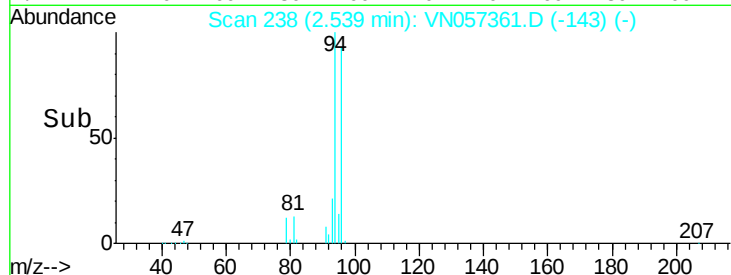
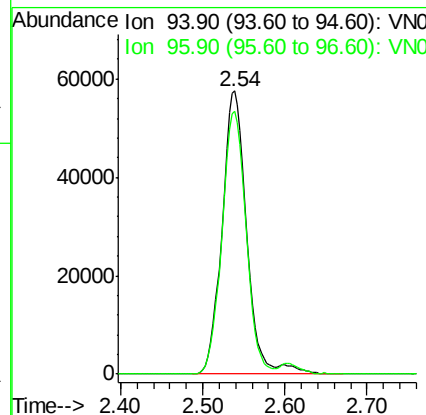
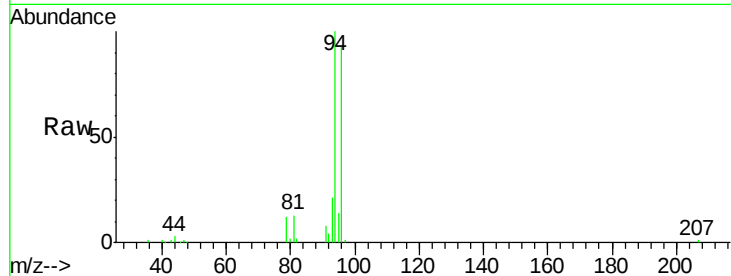
96 92.7 75.0 112.6

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#6

Chloroethane

Concen: 18.314 ug/l

RT: 2.69 min Scan# 286

Delta R.T. 0.01 min

Lab File: VN057361.D

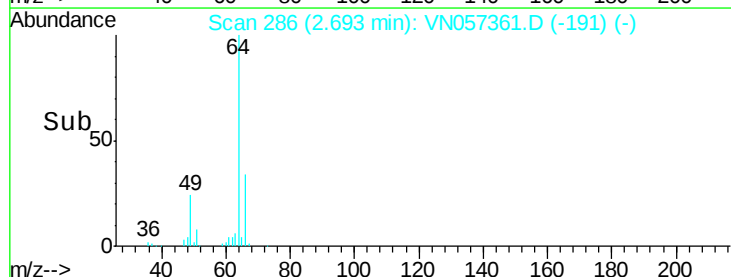
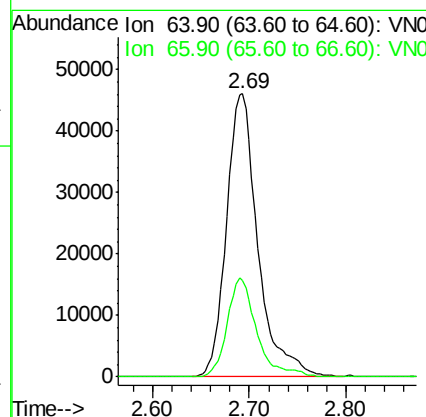
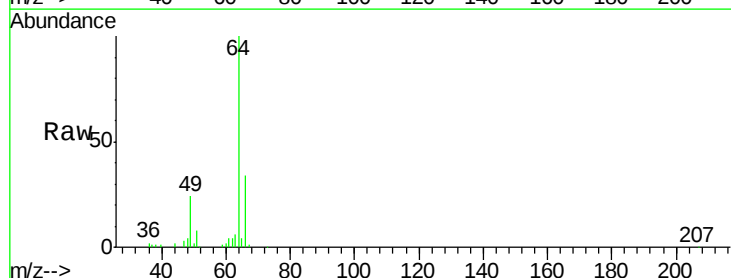
Acq: 16 Aug 2019 18:22

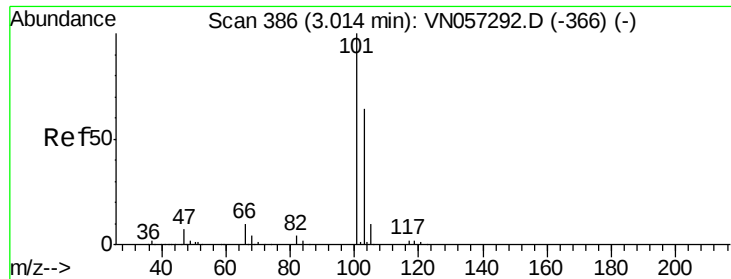
Tgt Ion: 64 Resp: 104185

Ion Ratio Lower Upper

64 100

66 34.2 26.4 39.6





#7

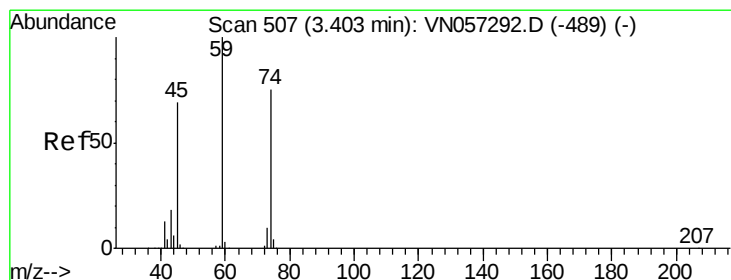
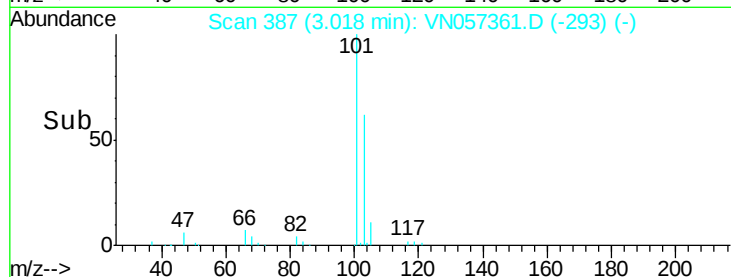
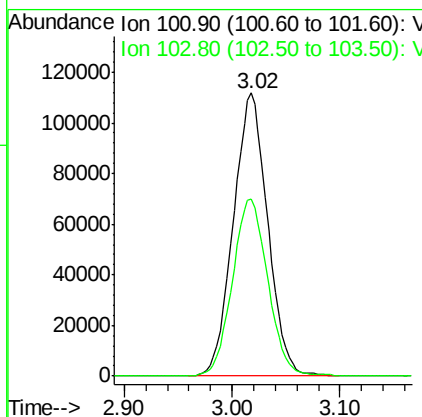
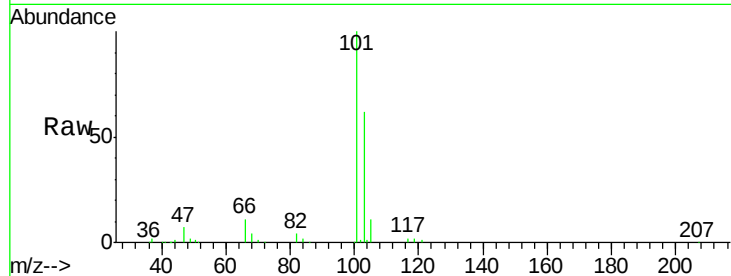
Trichlorofluoromethane
 Concen: 19.119 ug/l
 RT: 3.02 min Scan# 387
 Delta R.T. 0.00 min
 Lab File: VN057361.D
 Acq: 16 Aug 2019 18:22

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Tot Ion	Ratio	Lower	Upper
101	100		
103	62.4	51.5	77.3

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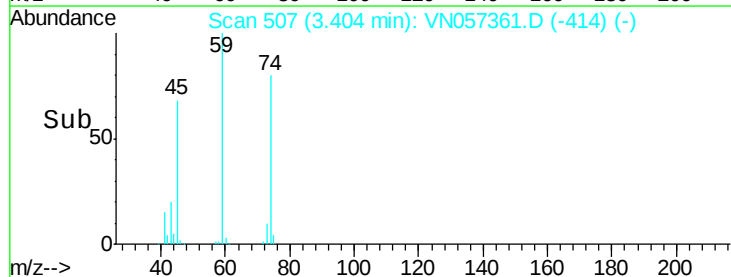
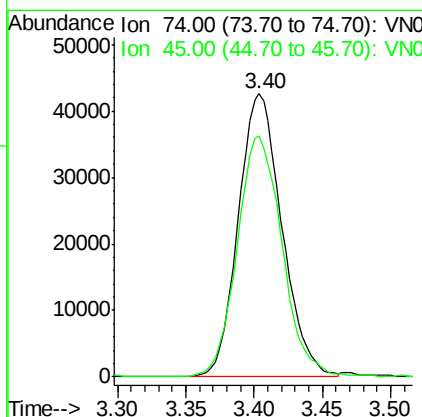
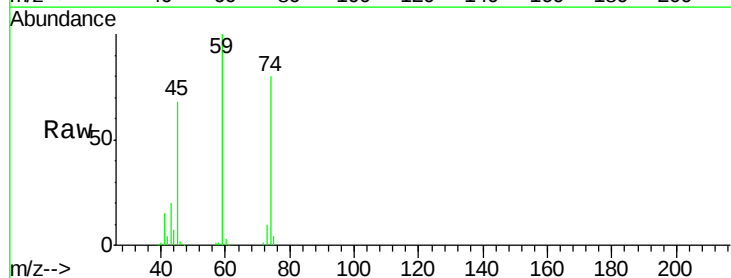
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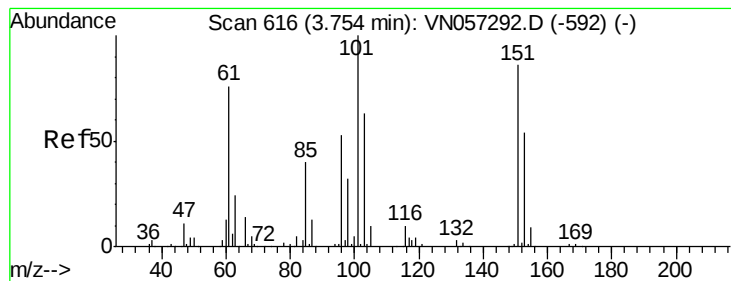


#8

Diethyl Ether
 Concen: 19.371 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: VN057361.D
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Tgt Ion	Ratio	Lower	Upper
74	100		
45	87.5	45.9	137.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.438 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

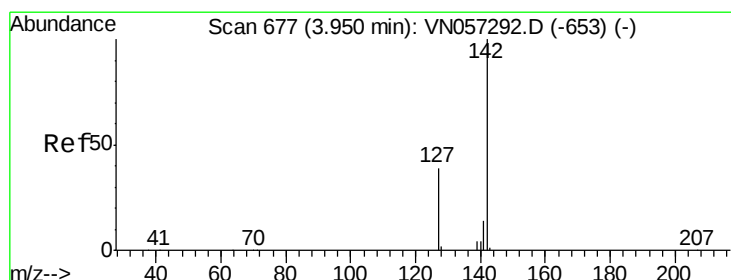
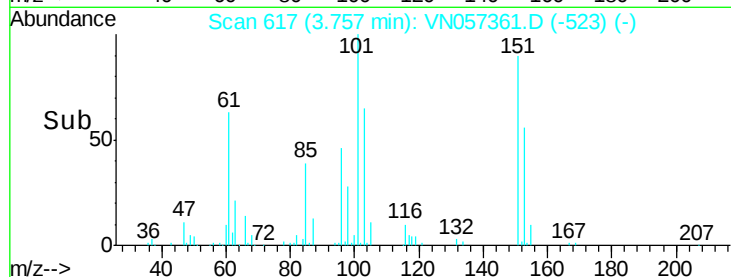
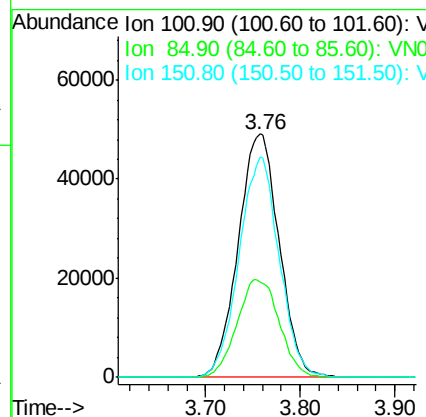
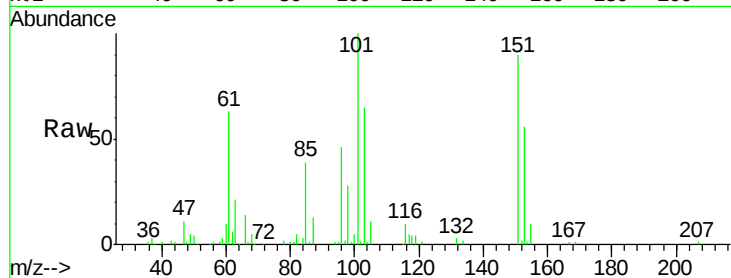
ClientSampleId :

VN0818WBS01

Tot Ion:	101	Resp:	148144
Ion Ratio	Lower	Upper	
101	100		
85	41.3	32.7	49.1
151	88.4	69.1	103.7

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#10

Methyl Iodide

Concen: 19.141 ug/l

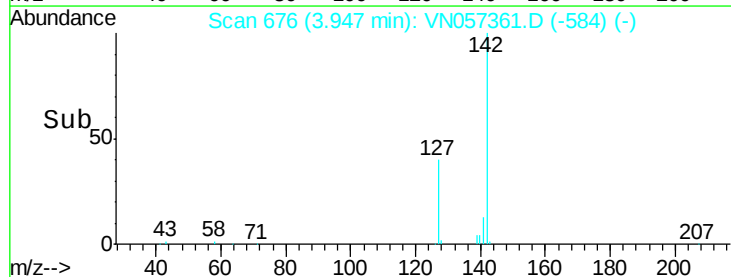
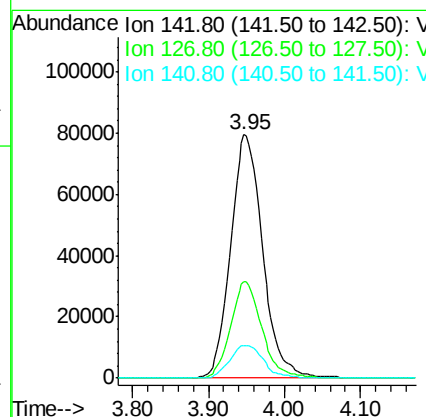
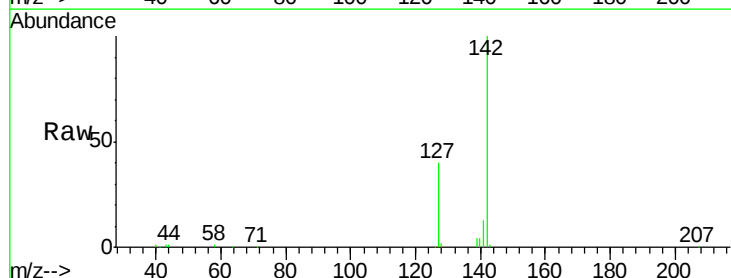
RT: 3.95 min Scan# 676

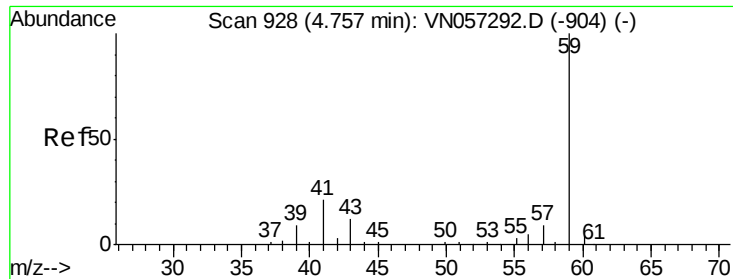
Delta R.T. -0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Tgt Ion:	142	Resp:	233190
Ion Ratio	Lower	Upper	
142	100		
127	38.8	31.6	47.4
141	14.2	11.2	16.8





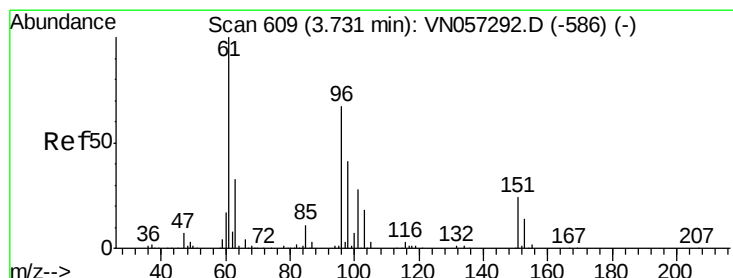
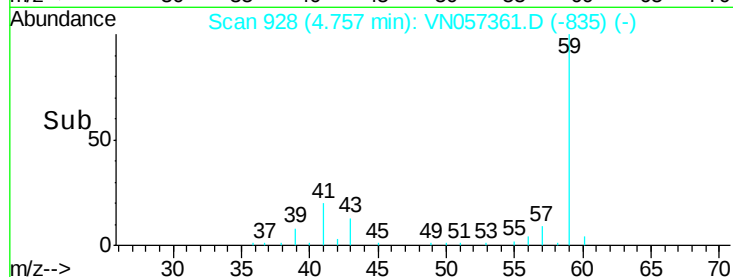
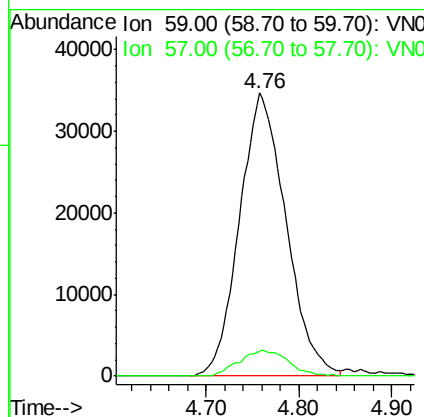
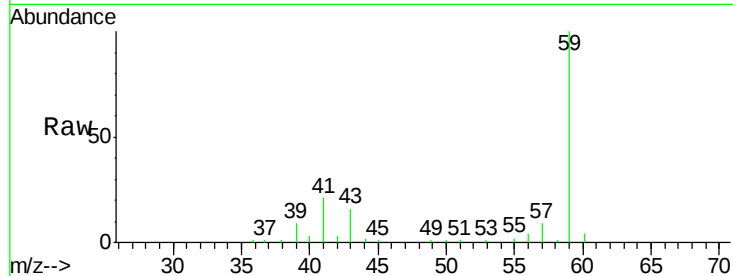
#11
Tert butyl alcohol
Concen: 90.339 ug/l
RT: 4.76 min Scan# 928
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Instrument :
MSVOA_N
ClientSampled :
VN0818WBS01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	120837		
57	9.6		8.2	12.2

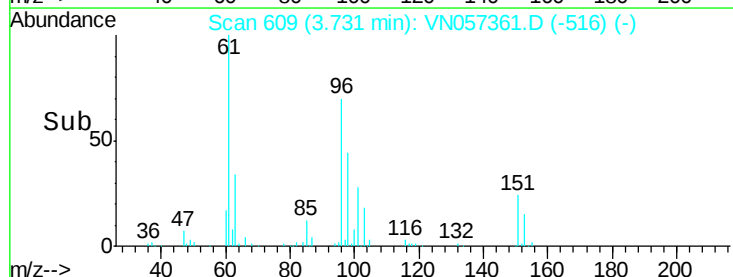
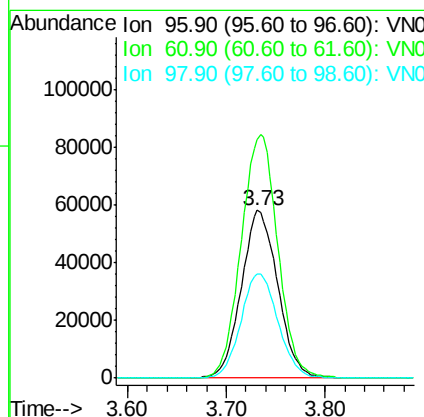
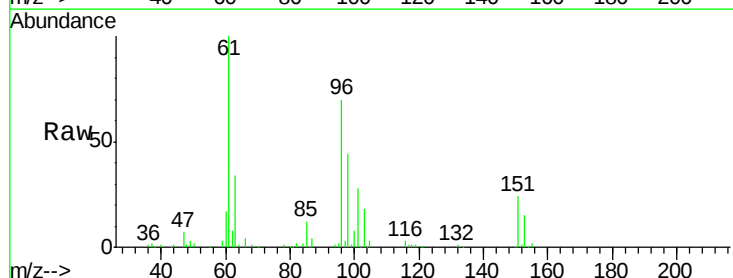
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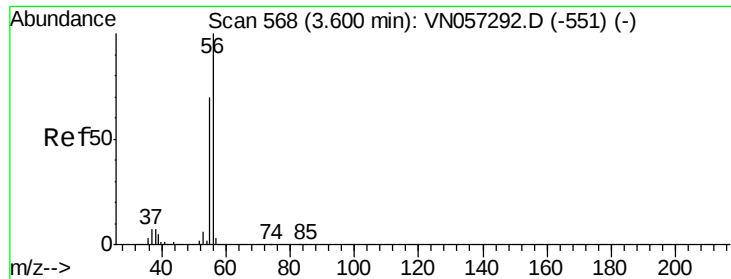
MMDadoda
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#12
1,1-Dichloroethene
Concen: 19.552 ug/l
RT: 3.73 min Scan# 609
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	148473		
61	142.1		119.7	179.5
98	62.3		49.0	73.4





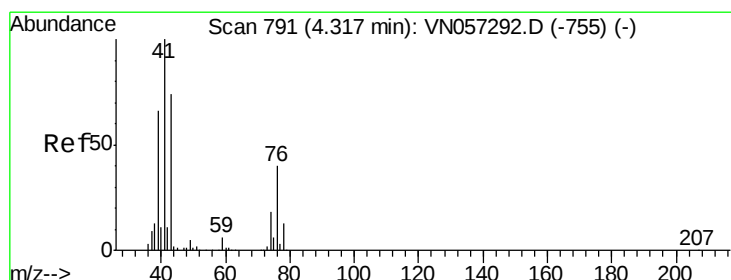
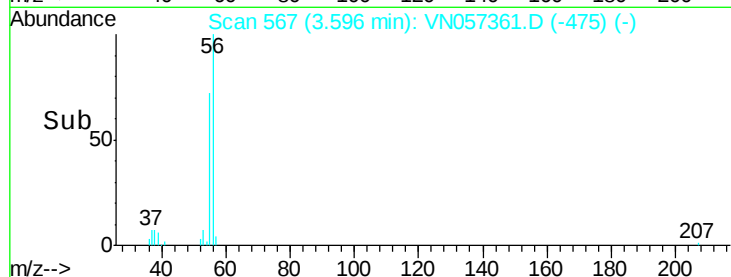
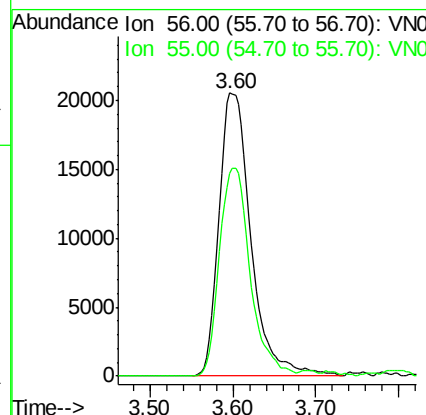
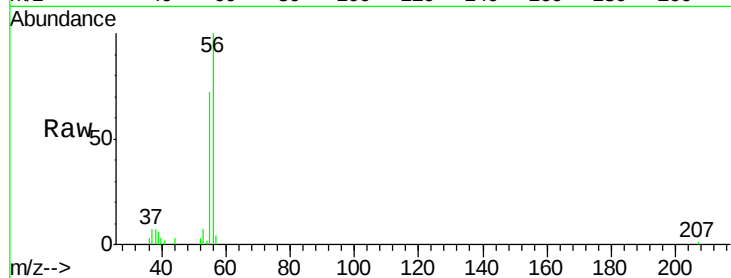
#13
 Acrolein
 Concen: 67.950 ug/l
 RT: 3.60 min Scan# 567
 Delta R.T. -0.00 min
 Lab File: VN057361.D
 Acq: 16 Aug 2019 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0818WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
55	70.6	56.6	84.8

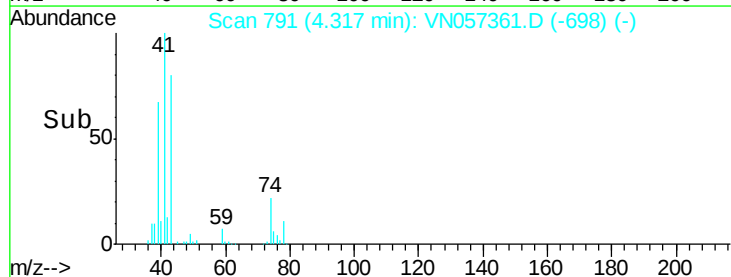
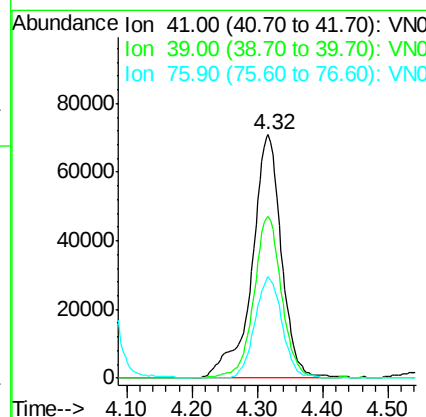
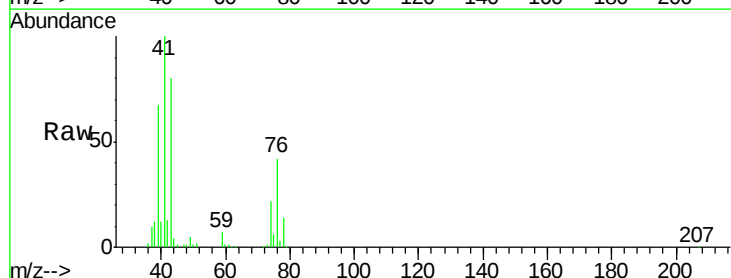
Manual Integrations
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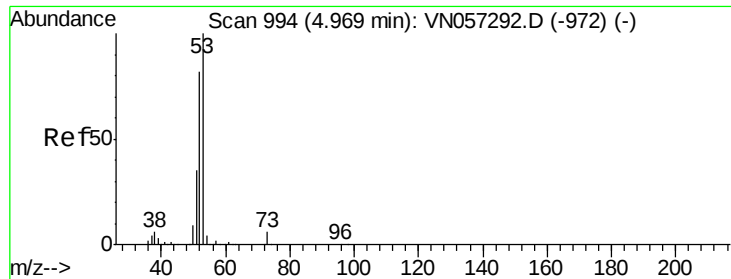
MMDadoda
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#14
 Allyl chloride
 Concen: 18.319 ug/l
 RT: 4.32 min Scan# 791
 Delta R.T. 0.00 min
 Lab File: VN057361.D
 Acq: 16 Aug 2019 18:22

Tgt Ion	Ratio	Lower	Upper
41	100		
39	62.5	49.0	73.6
76	38.2	29.0	43.4





#15

Acrylonitrile

Concen: 95.743 ug/l

RT: 4.97 min Scan# 995

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

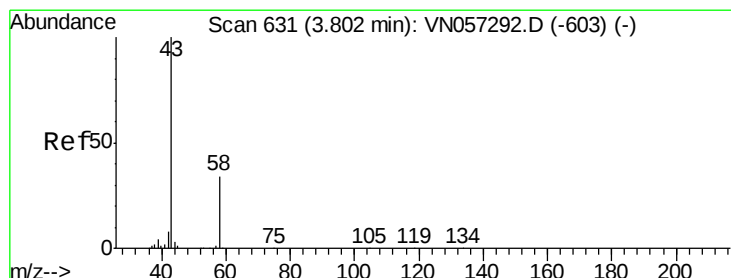
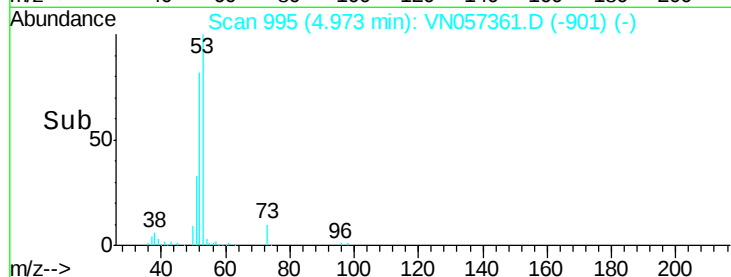
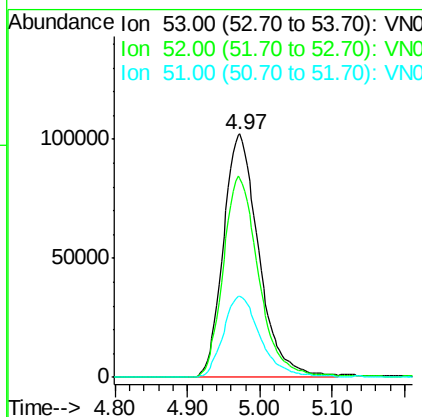
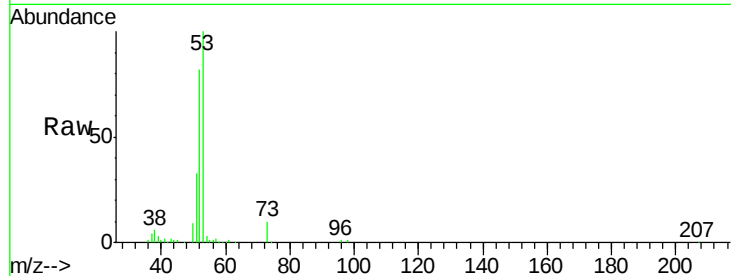
ClientSampled :

VN0818WBS01

Tot Ion:	53	Resp:	347687
Ion Ratio	Lower	Upper	
53	100		
52	82.0	66.2	99.2
51	35.1	28.5	42.7

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#16

Acetone

Concen: 81.921 ug/l

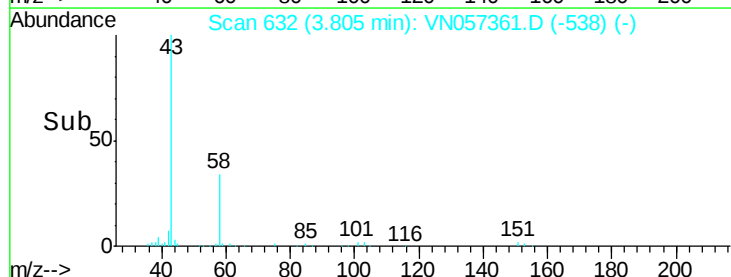
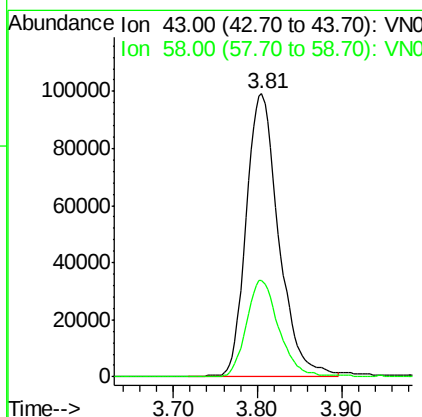
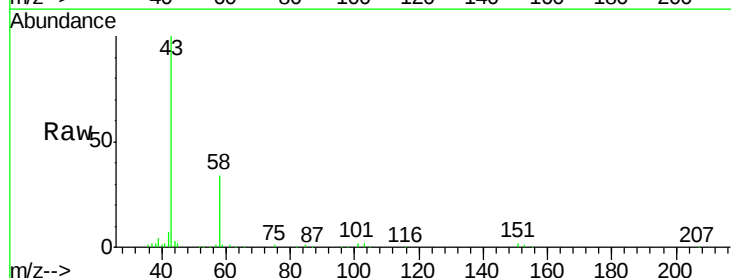
RT: 3.81 min Scan# 632

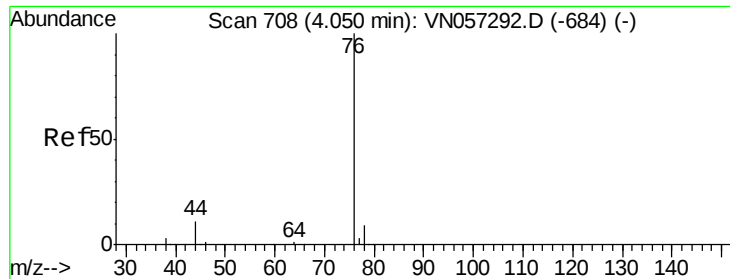
Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Tgt Ion:	43	Resp:	267383
Ion Ratio	Lower	Upper	
43	100		
58	34.1	27.0	40.6





#17

Carbon Disulfide

Concen: 18.344 ug/l

RT: 4.05 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

VN0818WBS01

Tot Ion: 76 Resp: 375281

Ion Ratio Lower Upper

76 100

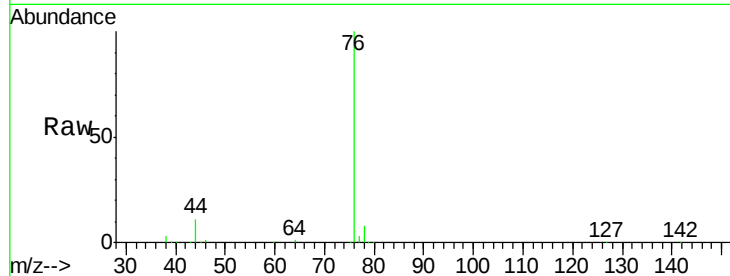
78 8.4 7.0 10.6

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

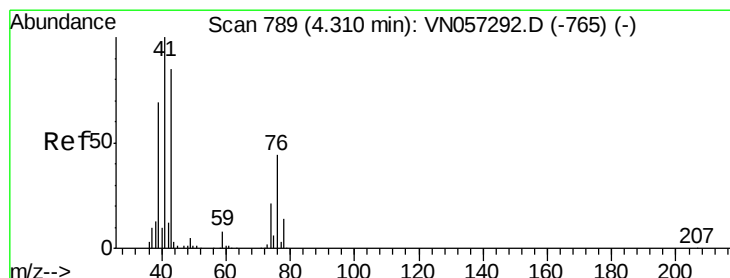
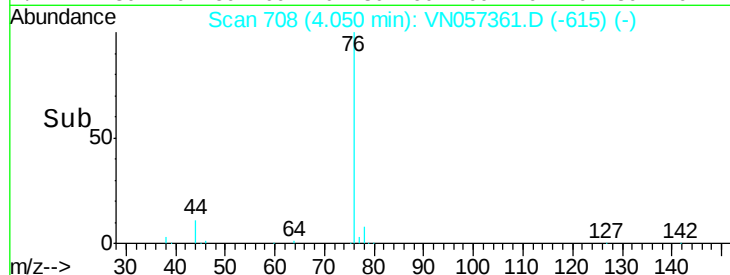
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 18.022 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN057361.D

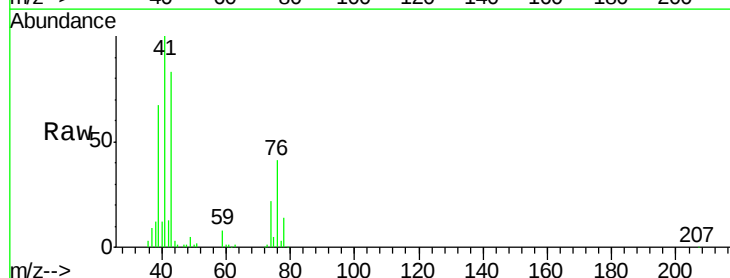
Acq: 16 Aug 2019 18:22

Tgt Ion: 43 Resp: 170673

Ion Ratio Lower Upper

43 100

74 27.6 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.31

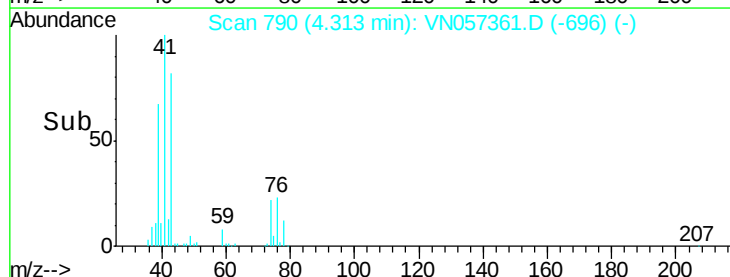
60000

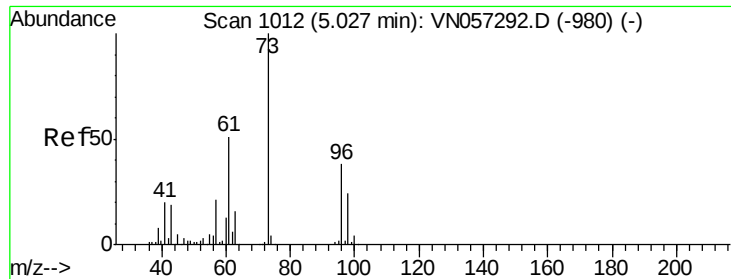
40000

20000

0

Time-->





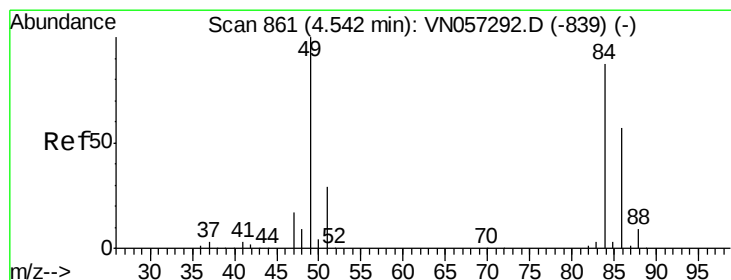
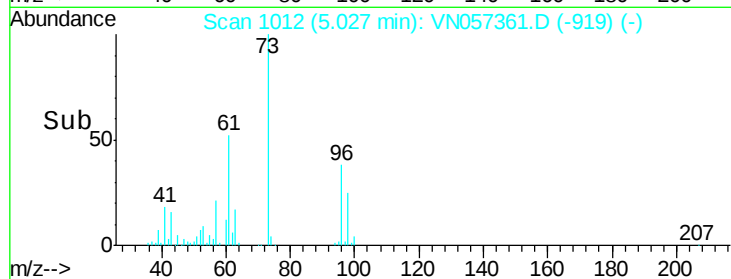
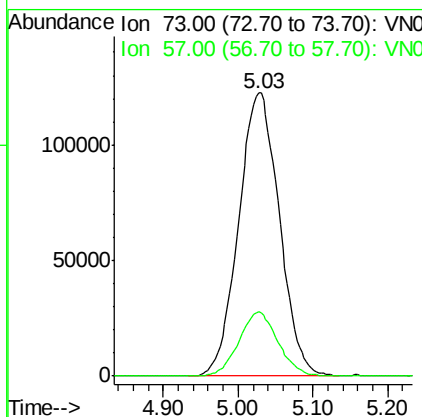
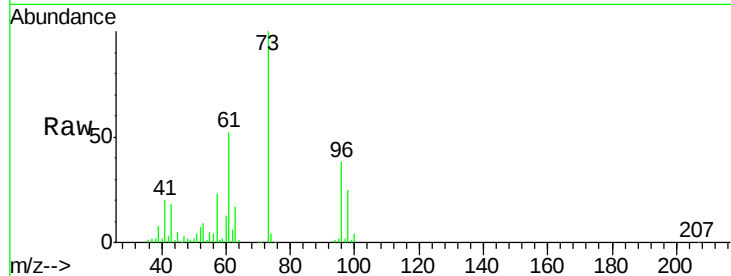
#19
Methvl tert-butvl Ether
Concen: 19.433 ug/l
RT: 5.03 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Instrument :
MSVOA_N
ClientSampleId :
VN0818WBS01

Tot Ion: 73 Resp: 463049
Ion Ratio Lower Upper
73 100
57 22.6 16.9 25.3

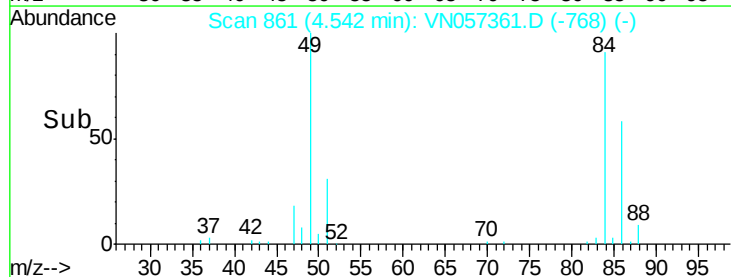
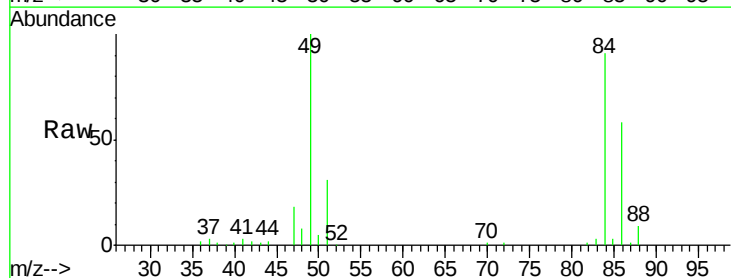
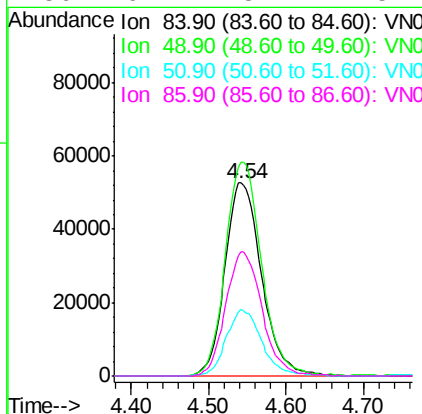
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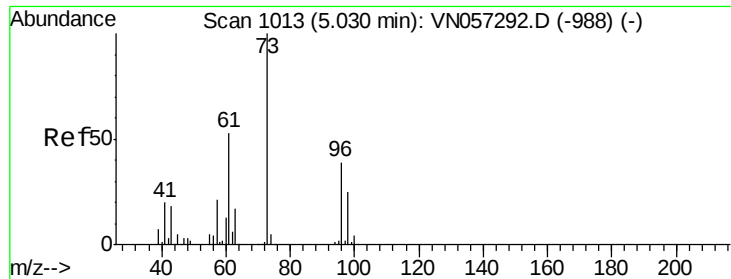
MMDadoda
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#20
Methylene Chloride
Concen: 18.964 ug/l
RT: 4.54 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Tgt Ion: 84 Resp: 173180
Ion Ratio Lower Upper
84 100
49 110.4 92.0 138.0
51 34.2 27.1 40.7
86 64.1 52.2 78.2





#21

trans-1,2-Dichloroethene

Concen: 19.068 ug/l

RT: 5.03 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

VN0818WBS01

Tot Ion: 96 Resp: 155716

Ion Ratio Lower Upper

96 100

61 136.2 109.5 164.3

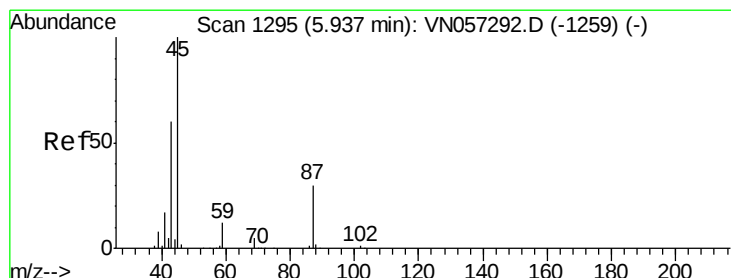
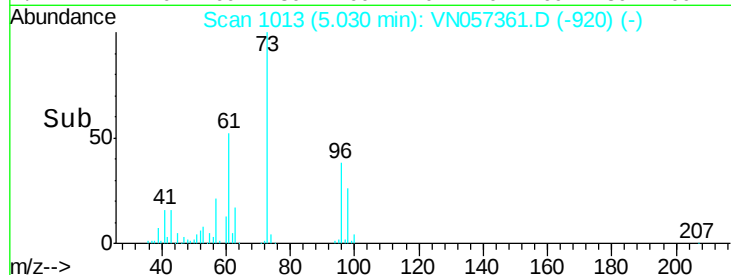
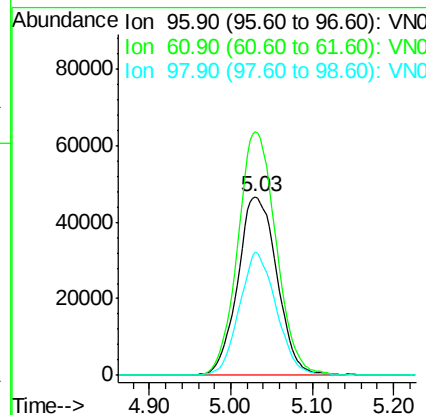
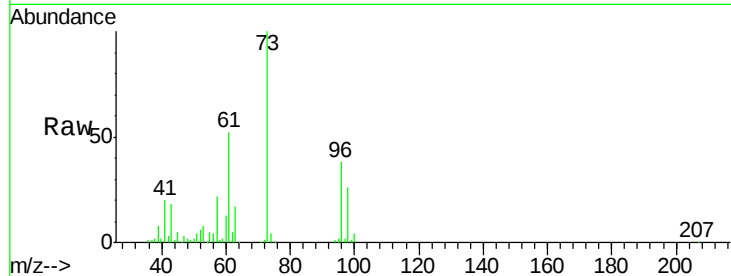
98 68.9 51.0 76.6

Manual Integrations

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#22

Diisopropyl ether

Concen: 19.147 ug/l

RT: 5.93 min Scan# 1294

Delta R.T. -0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Tgt Ion: 45 Resp: 460411

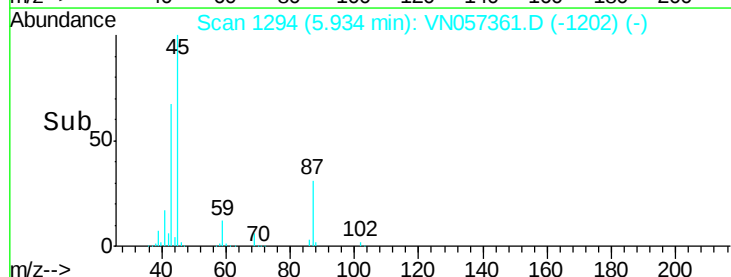
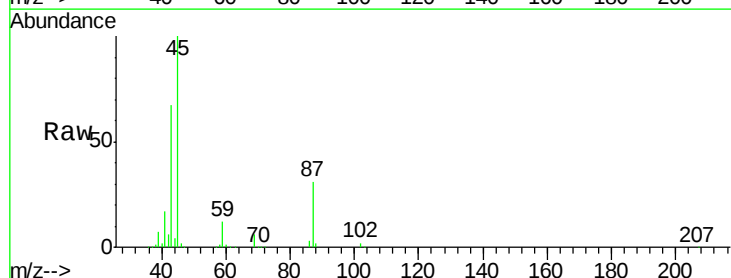
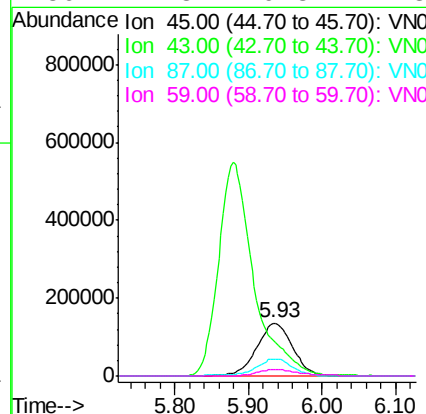
Ion Ratio Lower Upper

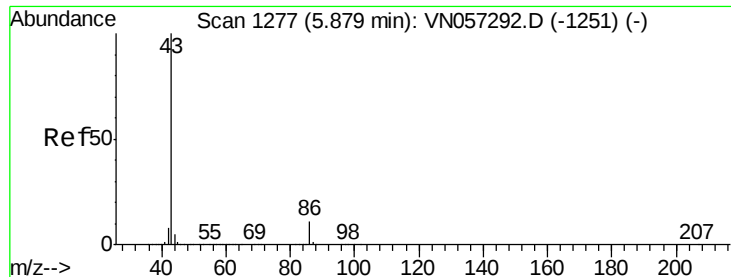
45 100

43 65.4 48.3 72.5

87 31.3 24.6 36.8

59 11.8 9.8 14.8





#23

Vinyl Acetate

Concen: 94.461 ug/l

RT: 5.88 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

VN0818WBS01

Tot Ion: 43 Resp: 1828050

Ion Ratio Lower Upper

43 100

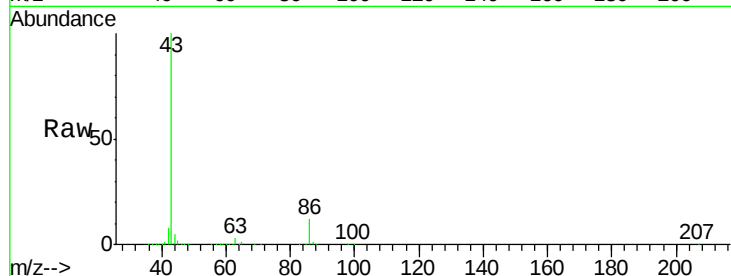
86 11.7 8.7 13.1

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.88

600000

500000

400000

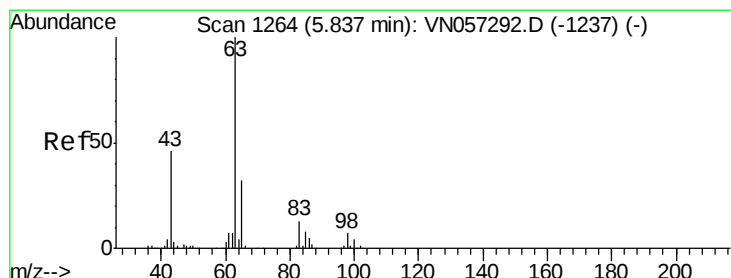
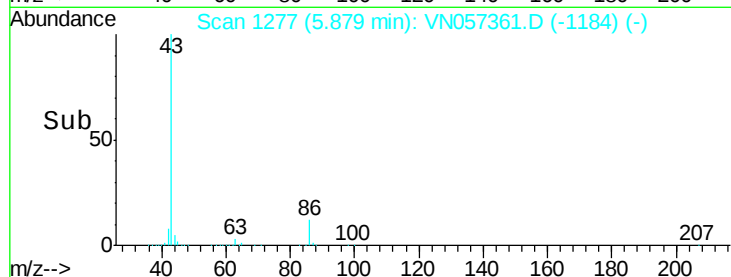
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 19.180 ug/l

RT: 5.84 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

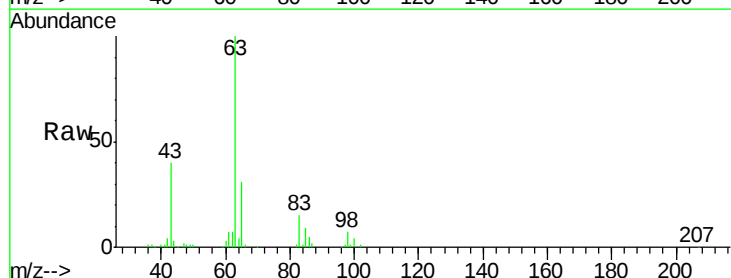
Tgt Ion: 63 Resp: 283750

Ion Ratio Lower Upper

63 100

98 7.0 3.3 9.9

100 4.0 2.1 6.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

5.84

120000

100000

80000

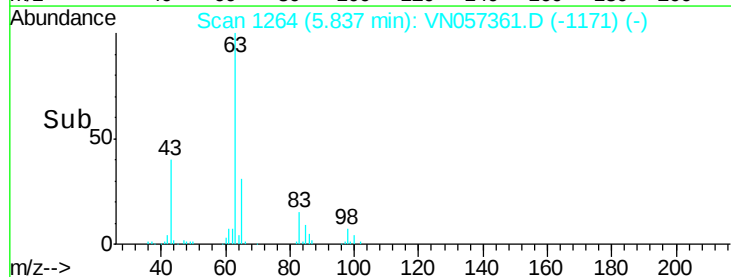
60000

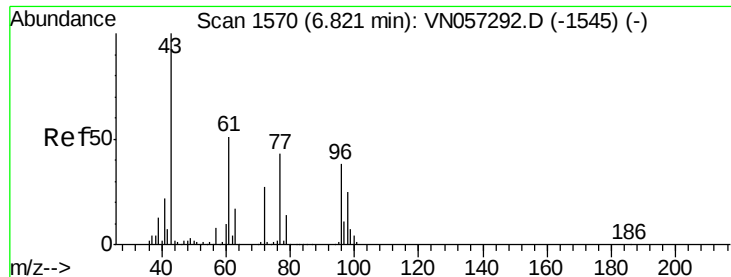
40000

20000

0

Time-->





#25

2-Butanone

Concen: 90.056 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

VN0818WBS01

Tot Ion: 43 Resp: 425647

Ion Ratio Lower Upper

43 100

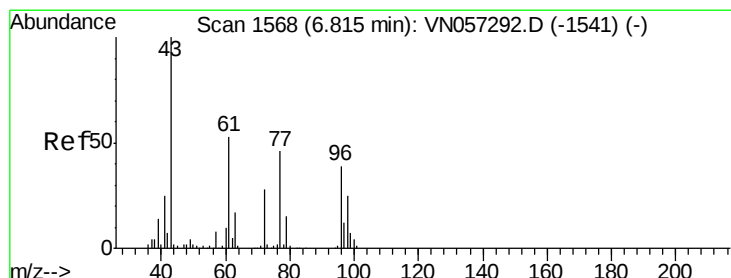
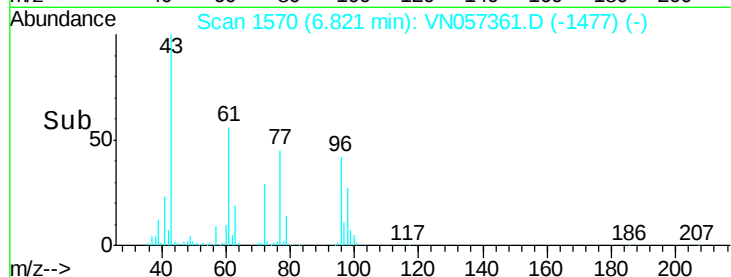
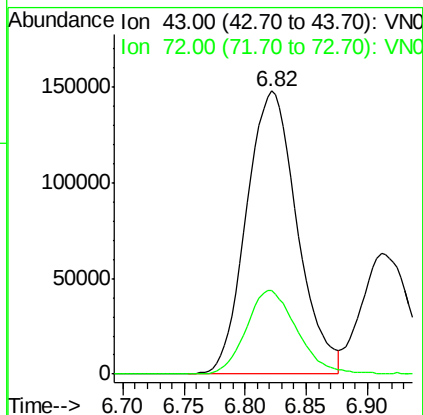
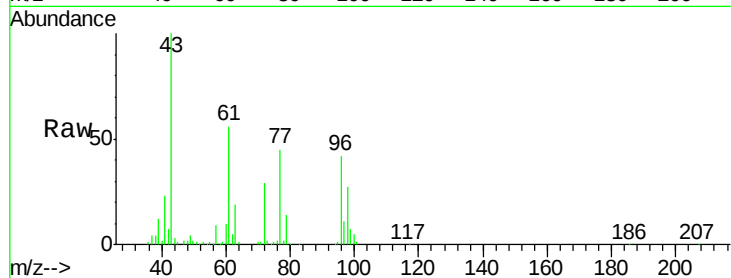
72 29.5 21.5 32.3

Manual Integrations

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MMDadoda

8/19/2019 12:19:23 PM



#26

2,2-Dichloropropane

Concen: 18.725 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VN057361.D

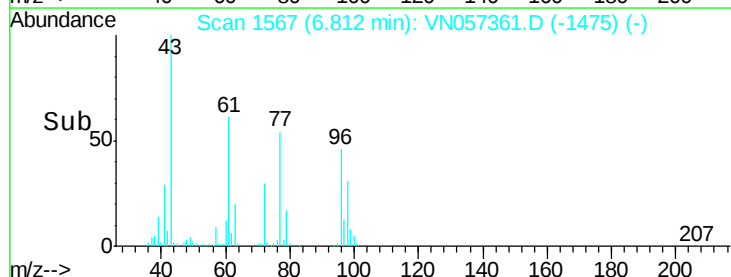
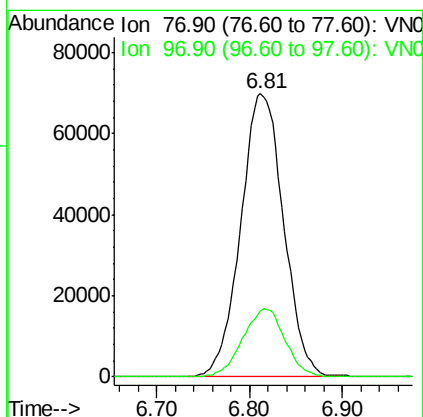
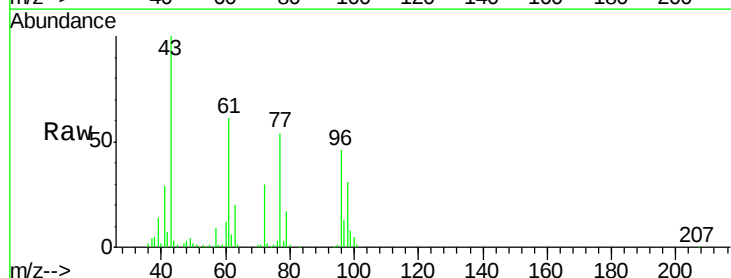
Acq: 16 Aug 2019 18:22

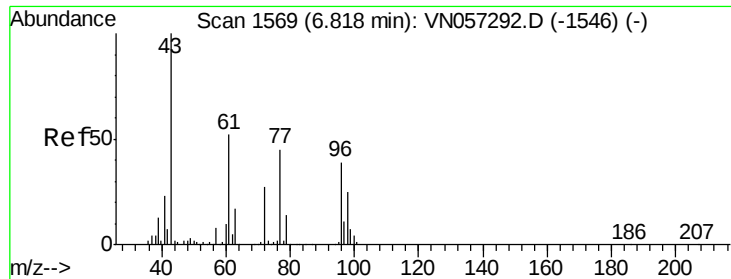
Tgt Ion: 77 Resp: 223870

Ion Ratio Lower Upper

77 100

97 23.8 12.3 36.9





#27

cis-1,2-Dichloroethene

Concen: 19.052 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

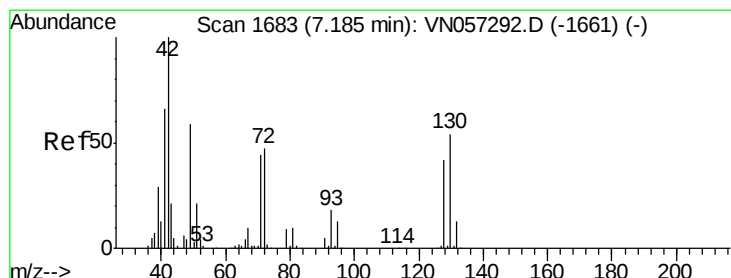
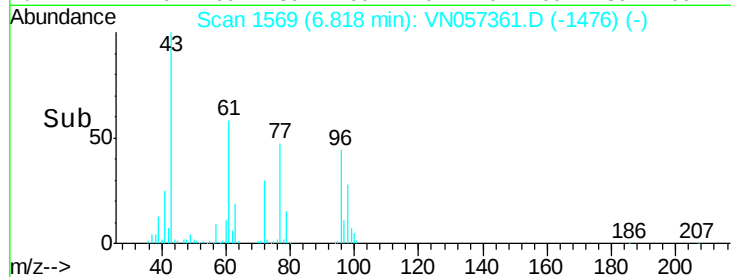
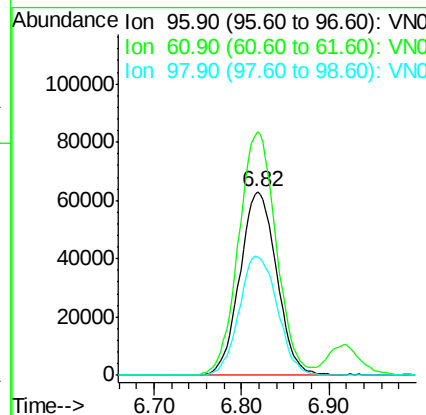
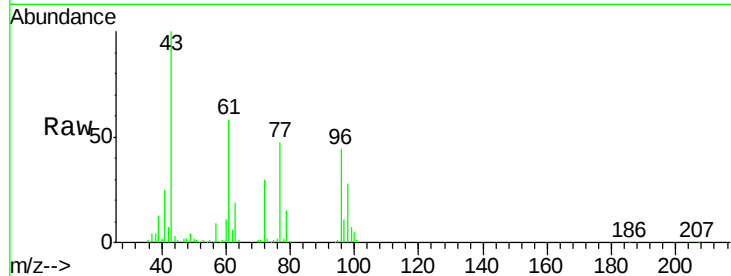
ClientSampleId :

VN0818WBS01

Tot Ion:	96	Resp:	184195
Ion Ratio	Lower	Upper	
96	100		
61	135.2	0.0	272.0
98	67.4	0.0	130.4

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#28

Bromochloromethane

Concen: 16.446 ug/l

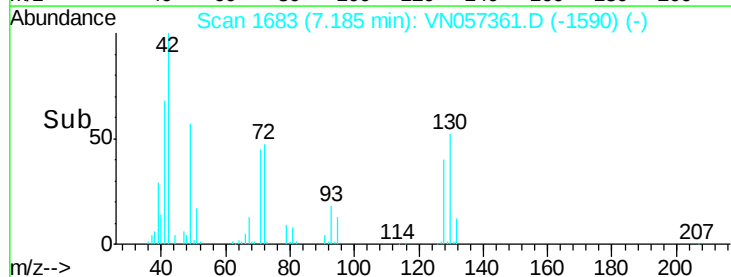
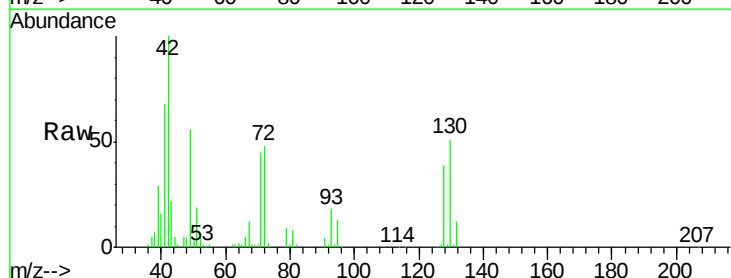
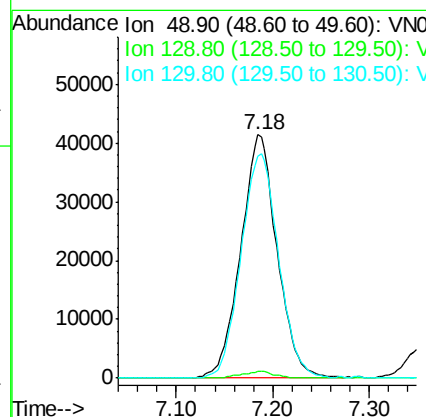
RT: 7.18 min Scan# 1683

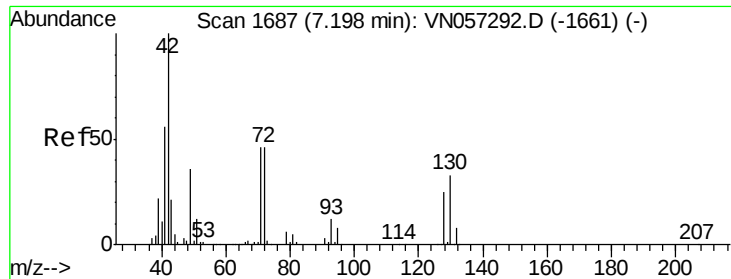
Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Tgt Ion:	49	Resp:	108104
Ion Ratio	Lower	Upper	
49	100		
129	2.3	0.0	2.0#
130	95.1	73.2	109.8





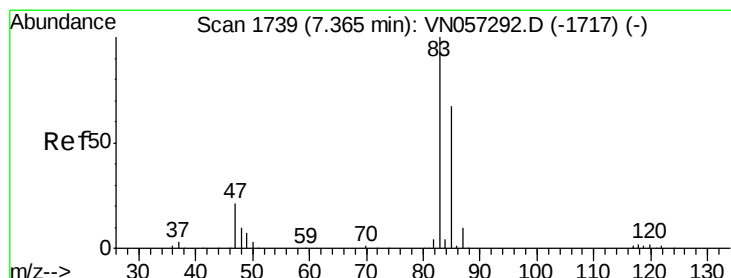
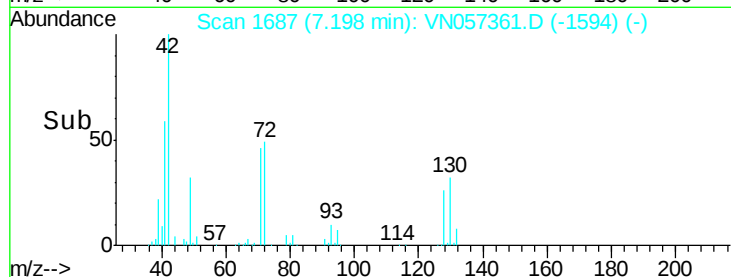
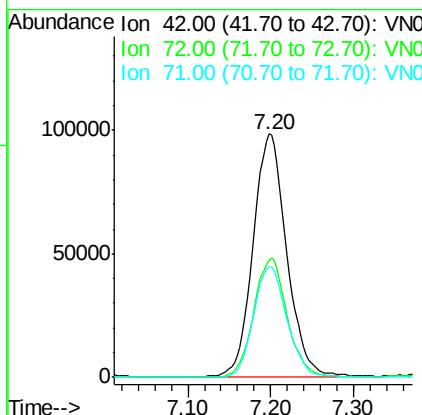
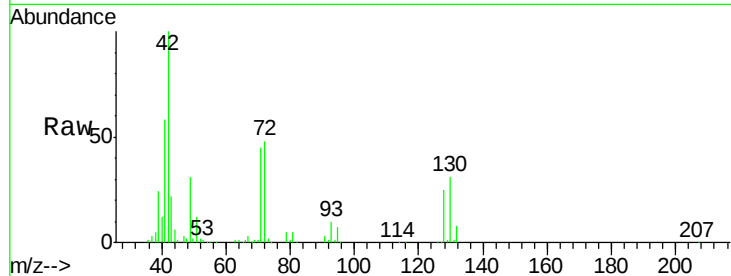
#29
Tetrahydrofuran
Concen: 93.099 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Instrument :
MSVOA_N
ClientSampleId :
VN0818WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.5	37.8	56.6
71	45.3	35.7	53.5

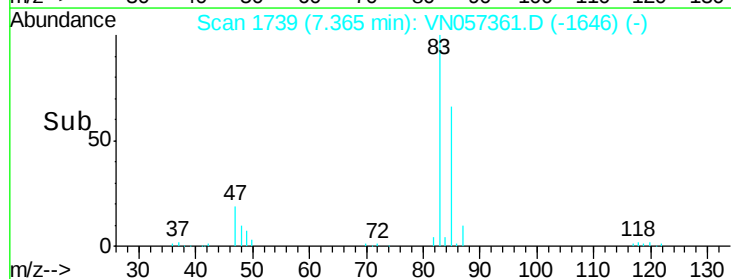
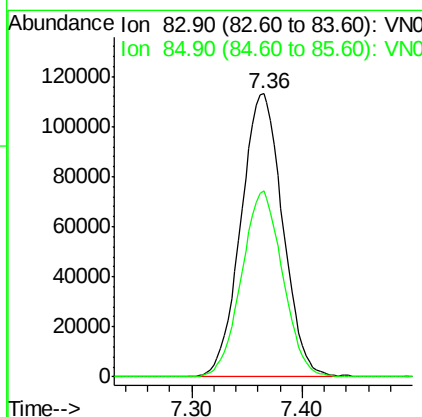
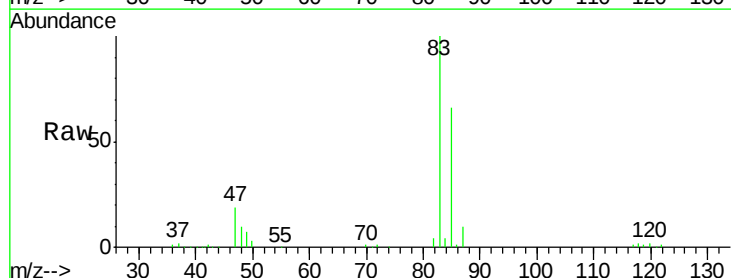
Manual Integrations
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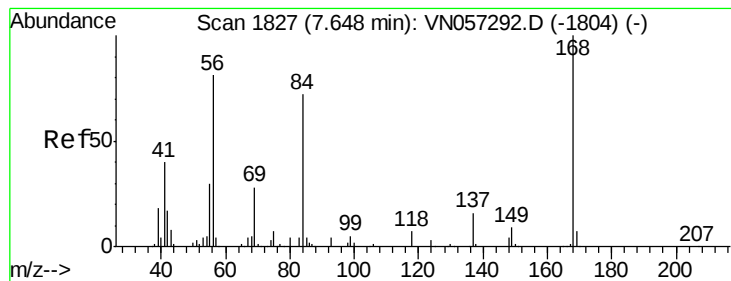
MMDadoda
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#30
Chloroform
Concen: 19.197 ug/l
RT: 7.36 min Scan# 1739
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	53.3	79.9





#31

Cyclohexane

Concen: 18.534 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

VN0818WBS01

Tot Ion: 56 Resp: 237612

Ion Ratio Lower Upper

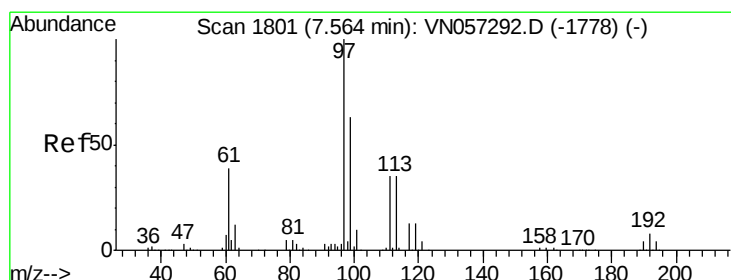
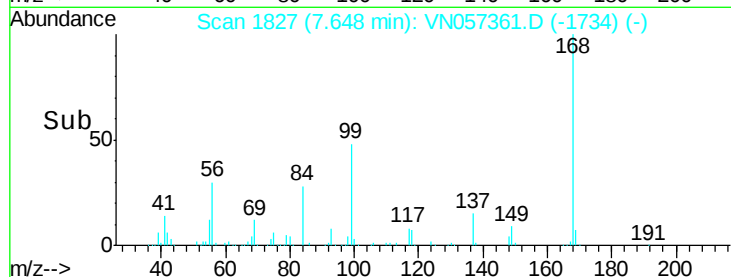
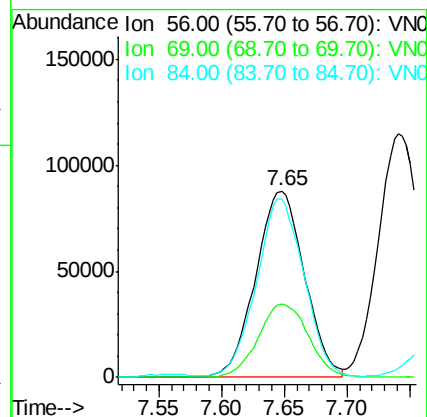
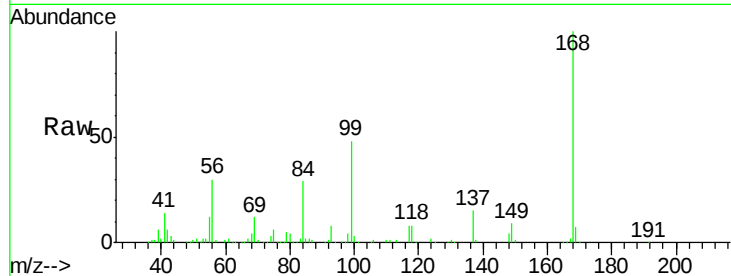
56 100

69 39.5 27.3 40.9

84 94.5 71.0 106.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 19.827 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

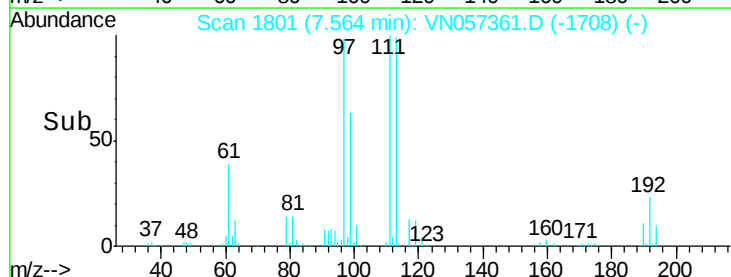
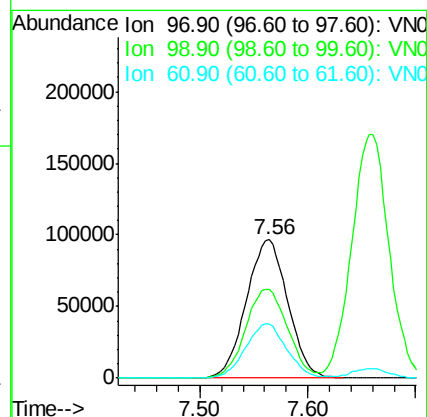
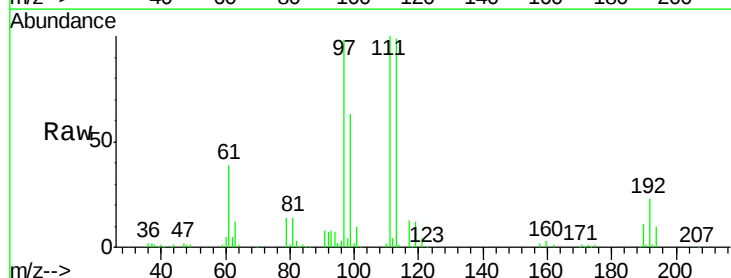
Tgt Ion: 97 Resp: 258535

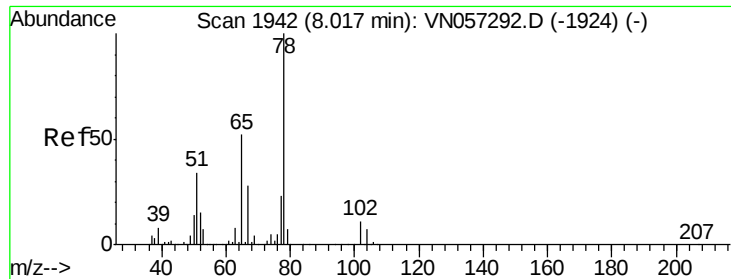
Ion Ratio Lower Upper

97 100

99 65.0 50.3 75.5

61 39.1 31.3 46.9





#33

1,2-Dichloroethane-d4

Concen: 51.468 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

VN0818WBS01

Tot Ion: 65 Resp: 484257

Ion Ratio Lower Upper

65 100

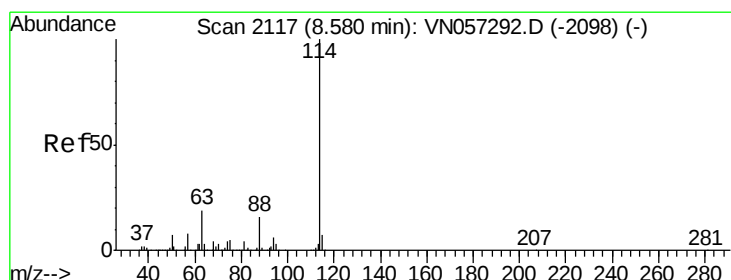
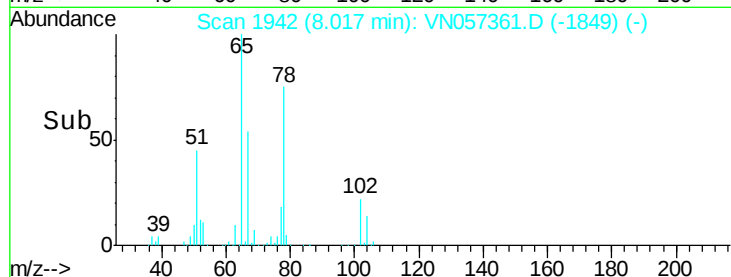
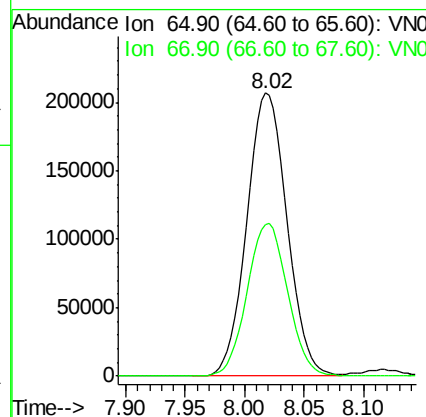
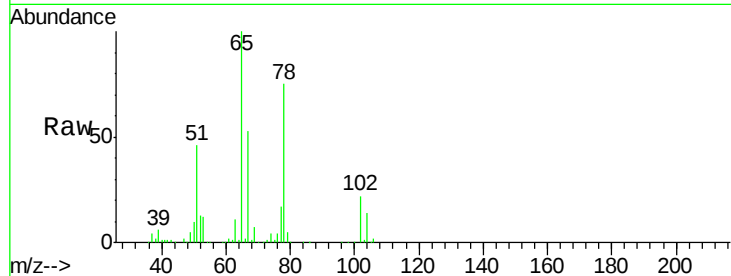
67 54.4 0.0 107.4

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2117

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

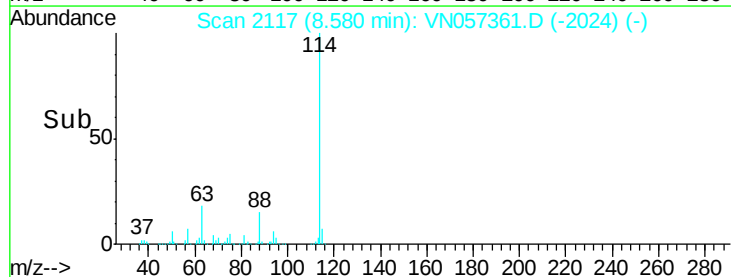
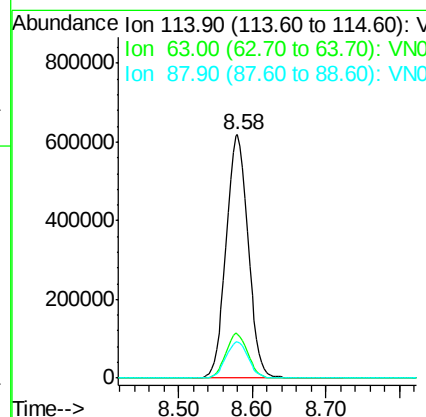
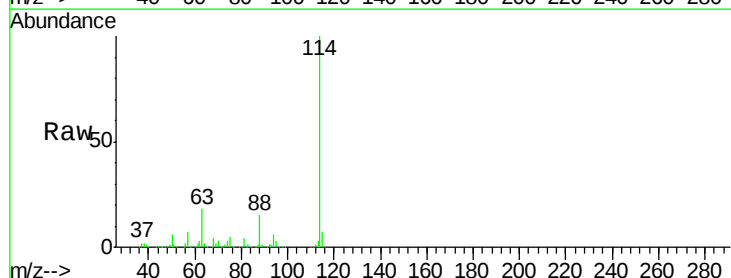
Tgt Ion: 114 Resp: 1283113

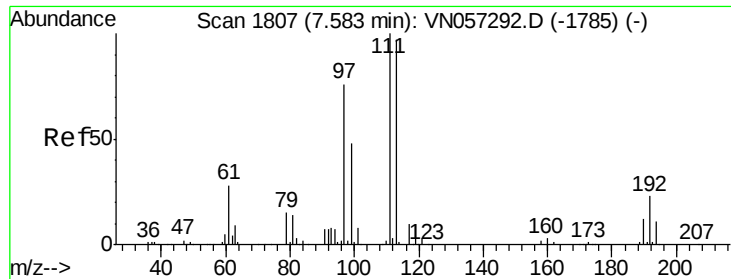
Ion Ratio Lower Upper

114 100

63 18.3 0.0 38.8

88 15.0 0.0 31.4





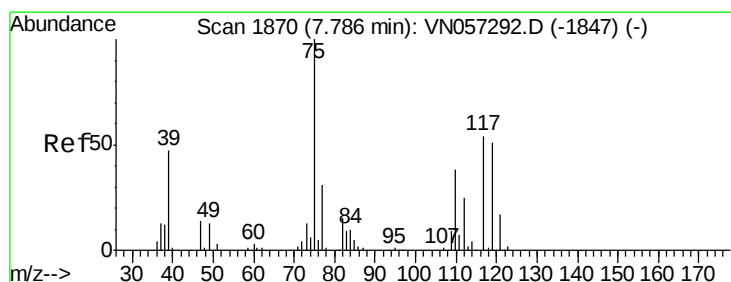
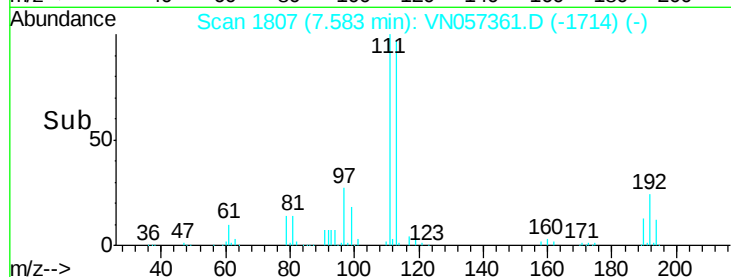
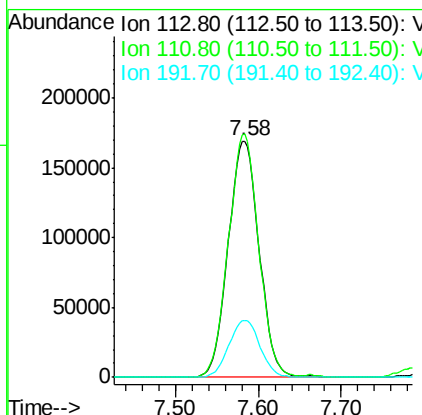
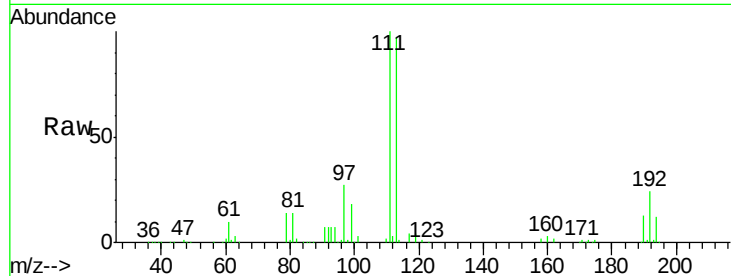
#35
 Dibromofluoromethane
 Concen: 52.264 ug/l
 RT: 7.58 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN057361.D
 Acq: 16 Aug 2019 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0818WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	439595		
111	100.6	82.1	123.1	
192	24.2	19.3	28.9	

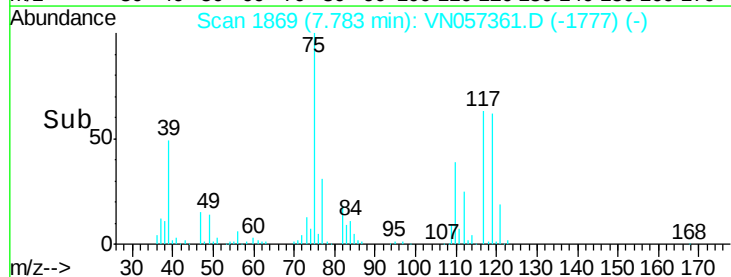
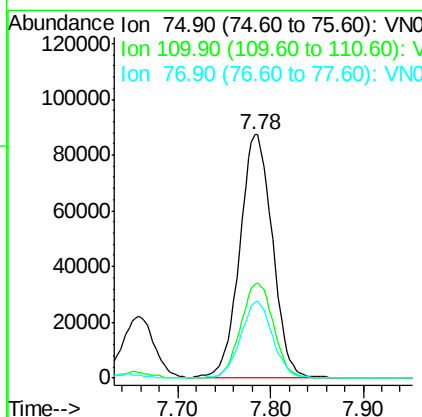
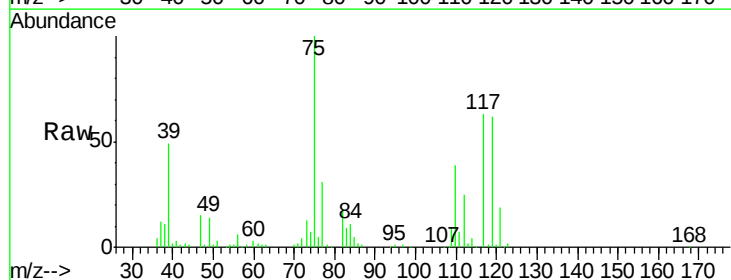
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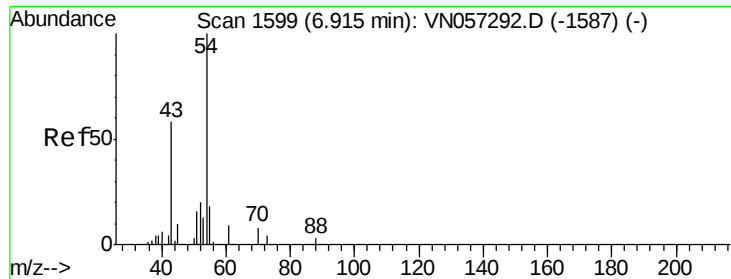
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#36
 1,1-Dichloropropene
 Concen: 18.780 ug/l
 RT: 7.78 min Scan# 1869
 Delta R.T. -0.00 min
 Lab File: VN057361.D
 Acq: 16 Aug 2019 18:22

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	212765		
110	39.3	19.5	58.5	
77	31.1	25.0	37.6	





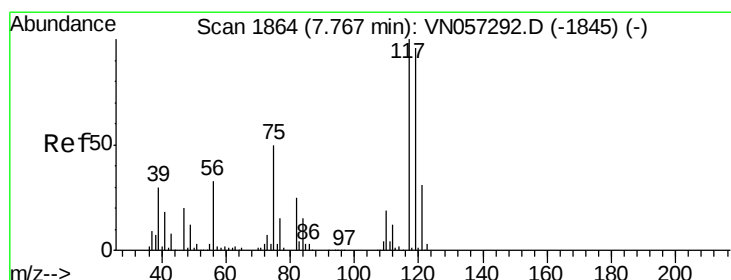
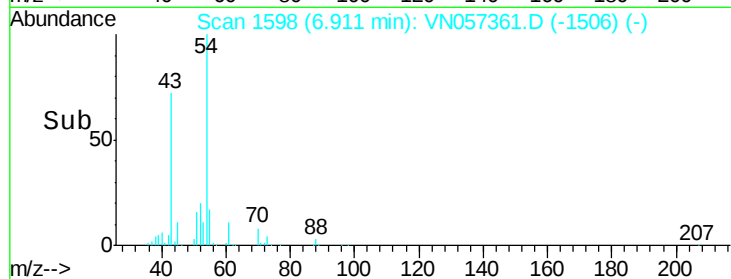
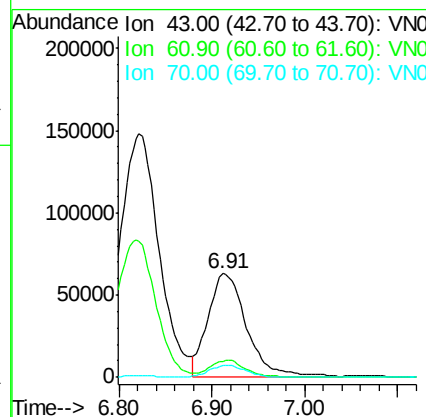
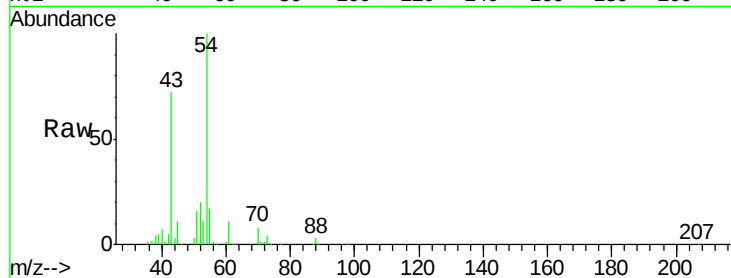
#37
Ethyl Acetate
Concen: 19.381 ug/l
RT: 6.91 min Scan# 1598
Delta R.T. -0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Instrument :
MSVOA_N
ClientSampleId :
VN0818WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.8	12.0	18.0
70	11.2	9.2	13.8

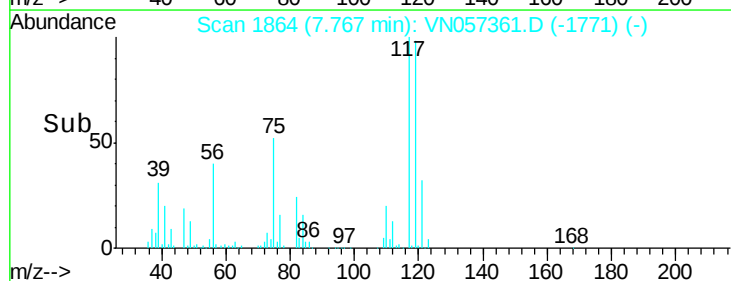
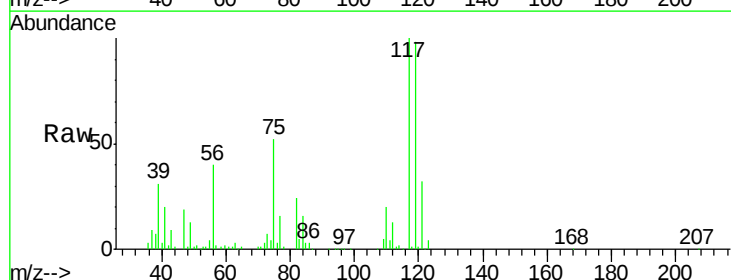
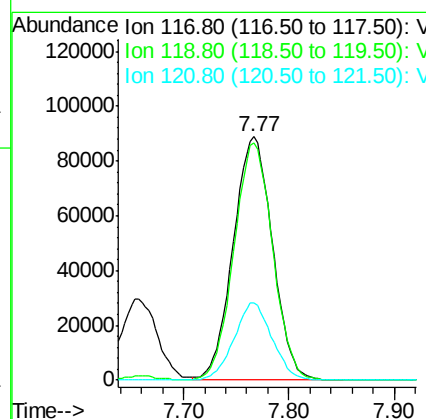
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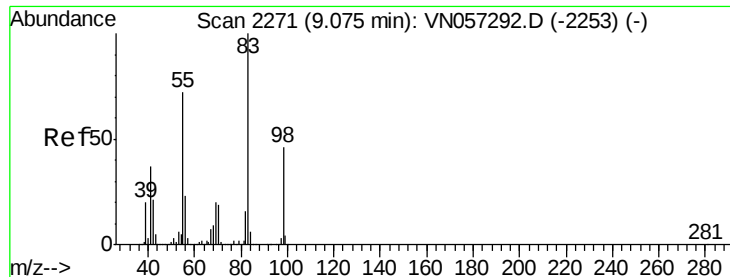
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#38
Carbon Tetrachloride
Concen: 19.441 ug/l
RT: 7.77 min Scan# 1864
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.8	76.8	115.2
121	31.7	25.0	37.4





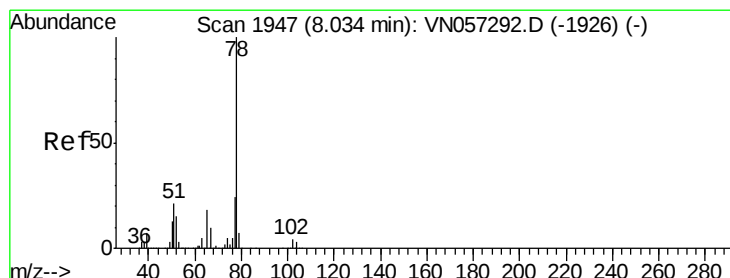
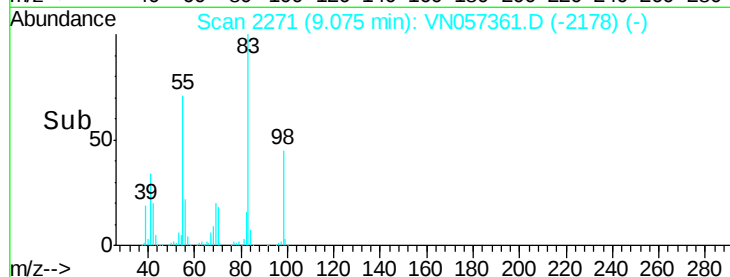
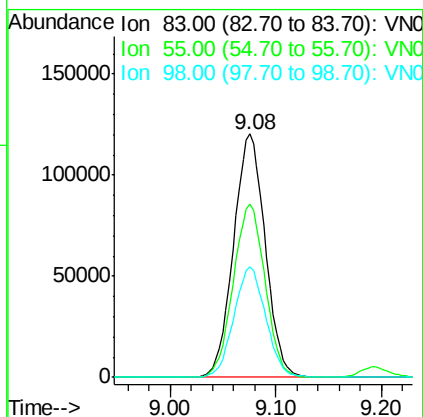
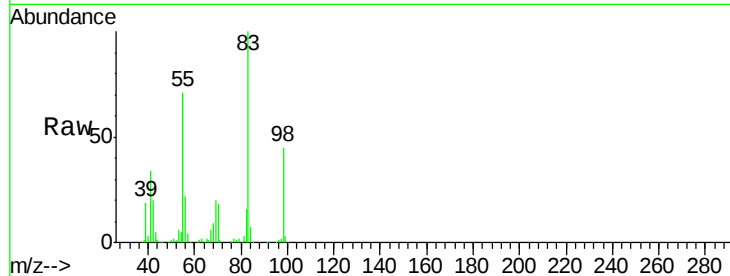
#39
Methvlcvclohexane
Concen: 18.961 ug/l
RT: 9.08 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Instrument :
MSVOA_N
ClientSampleId :
VN0818WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	71.1	57.5	86.3
98	45.4	36.6	55.0

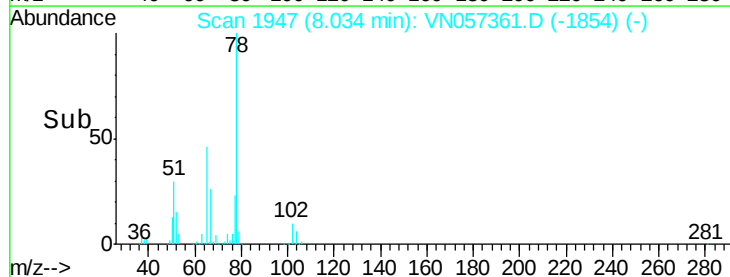
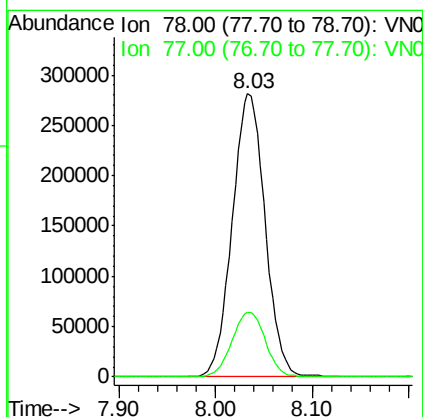
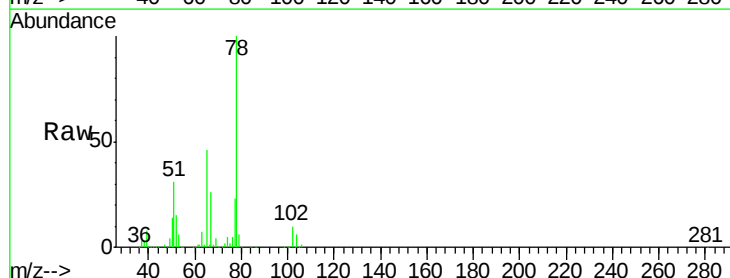
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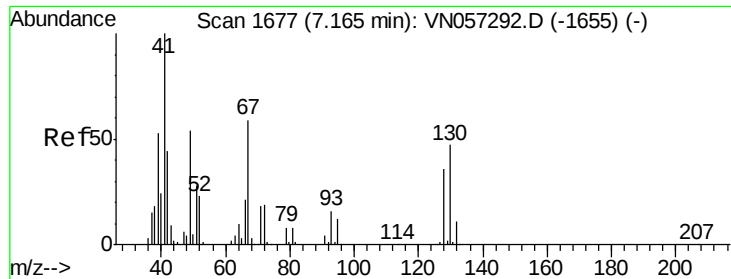
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#40
Benzene
Concen: 19.144 ug/l
RT: 8.03 min Scan# 1947
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.1	28.7





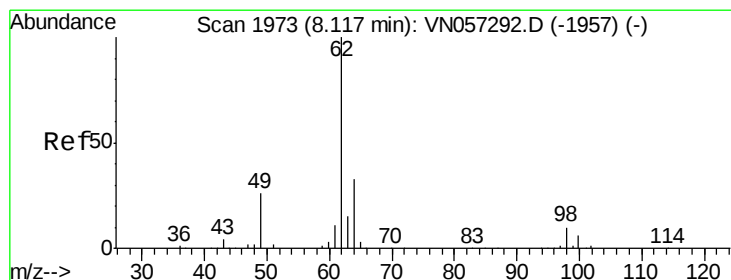
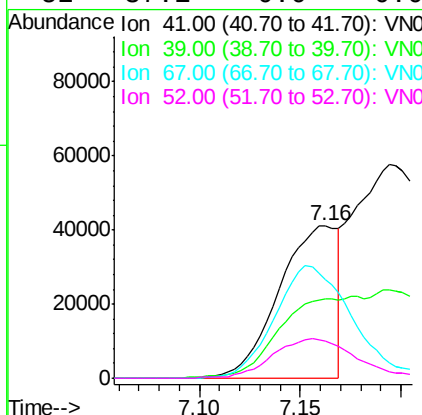
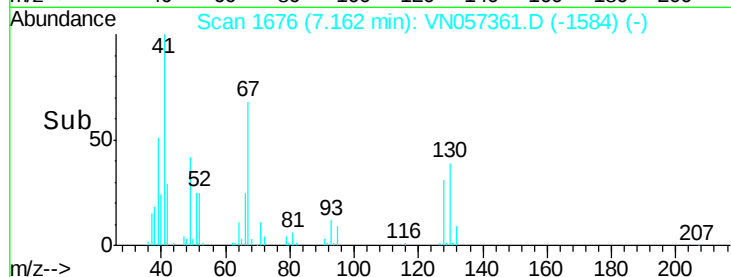
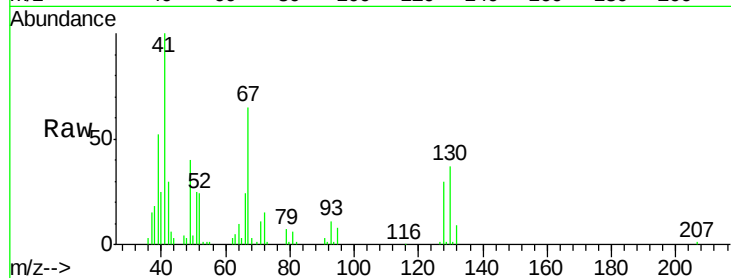
#41
Methacrylonitrile
Concen: 19.925 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. -0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Instrument :
MSVOA_N
ClientSampleId :
VN0818WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100				
39	53.4	0.0	0.0#		
67	97.8	0.0	0.0#		
52	37.1	0.0	0.0#		

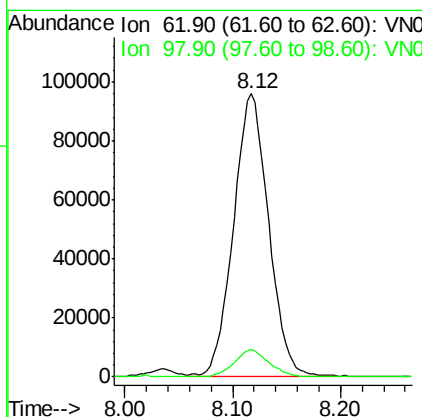
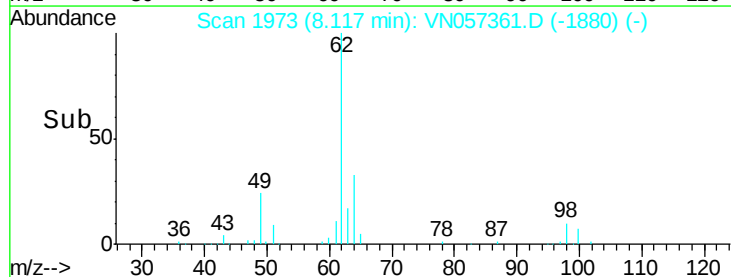
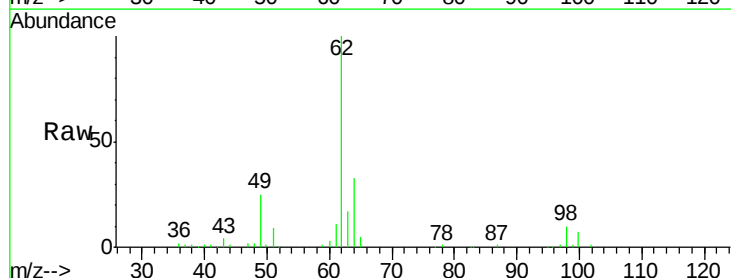
Manual Integrations
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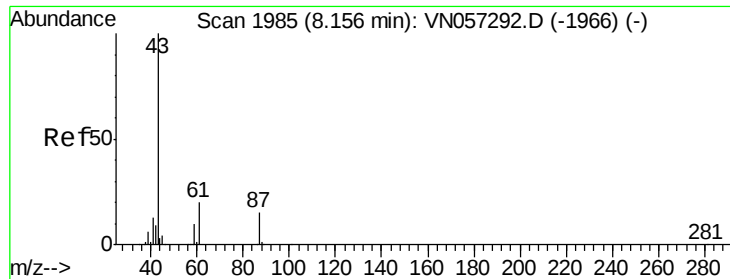
MMDadoda
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#42
1,2-Dichloroethane
Concen: 18.869 ug/l
RT: 8.12 min Scan# 1973
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100				
98	9.5	0.0	19.4		





#43

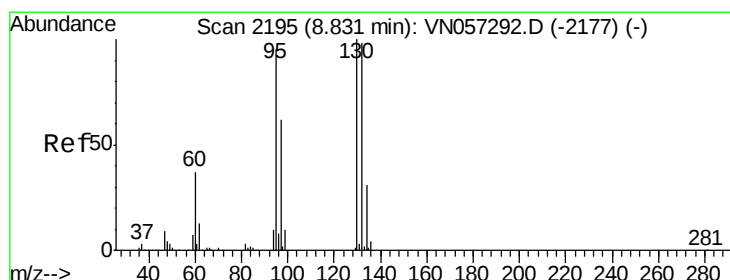
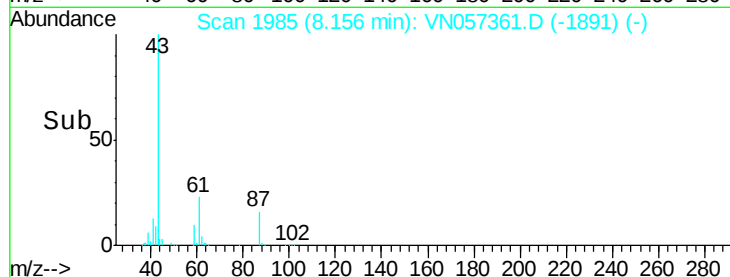
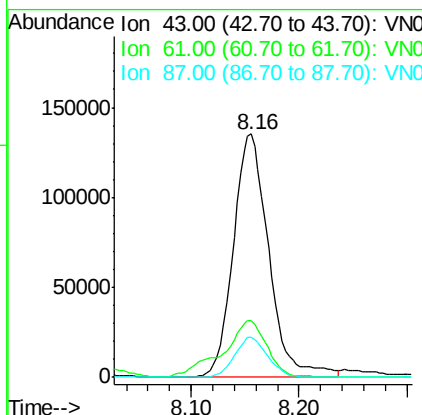
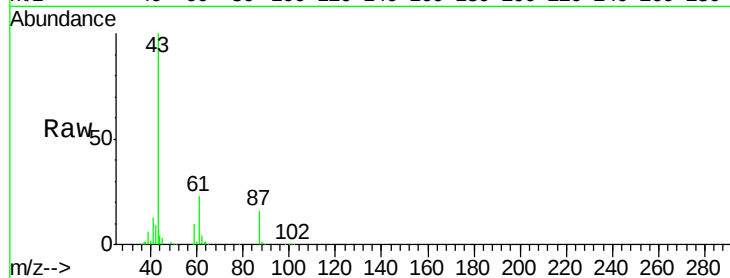
Isopropyl Acetate
 Concen: 17.354 ug/l
 RT: 8.16 min Scan# 1985
 Delta R.T. 0.00 min
 Lab File: VN057361.D
 Acq: 16 Aug 2019 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0818WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.8	21.6	32.4
87	15.4	11.4	17.0

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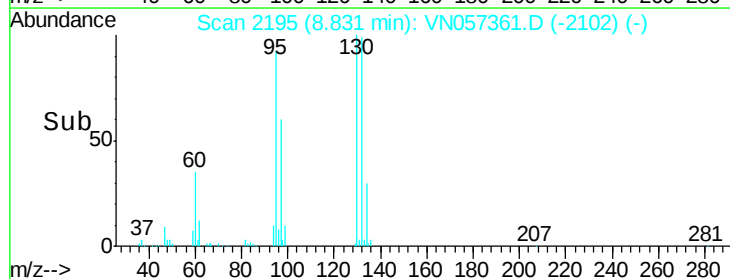
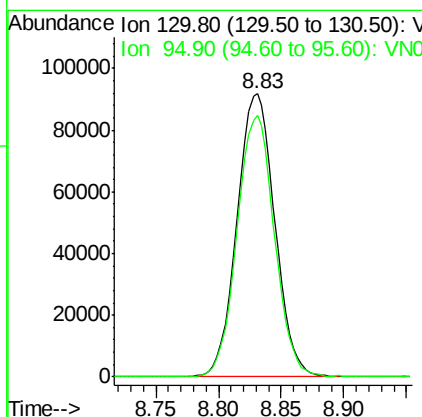
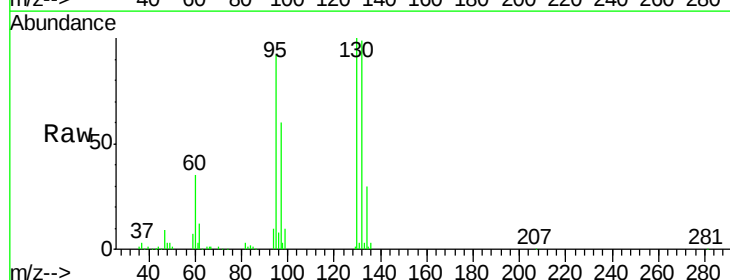
MMDadoda
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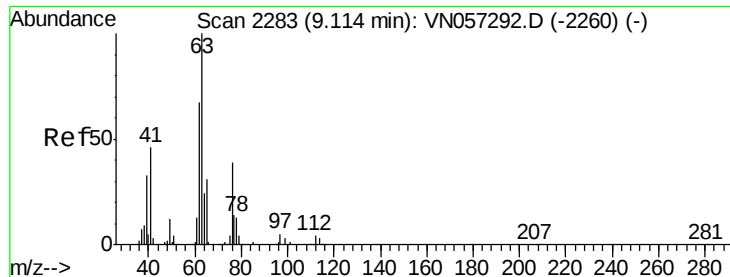


#44

Trichloroethene
 Concen: 19.720 ug/l
 RT: 8.83 min Scan# 2195
 Delta R.T. 0.00 min
 Lab File: VN057361.D
 Acq: 16 Aug 2019 18:22

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.2	0.0	189.2





#45

1,2-Dichloropropane

Concen: 18.971 ug/l

RT: 9.11 min Scan# 2283

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

VN0818WBS01

Tot Ion: 63 Resp: 169443

Ion Ratio Lower Upper

63 100

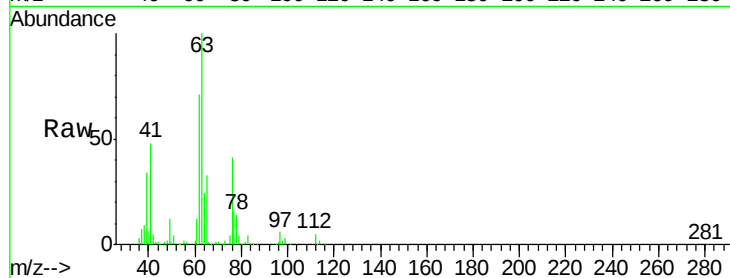
65 32.9 24.8 37.2

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.11

80000

60000

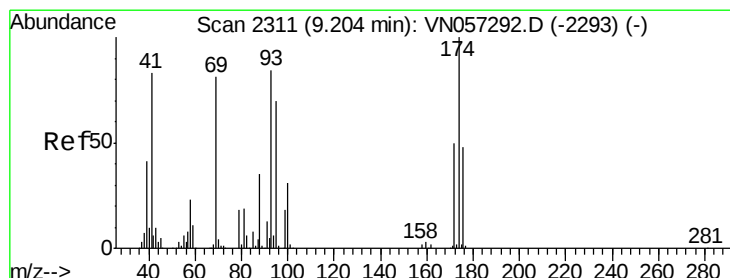
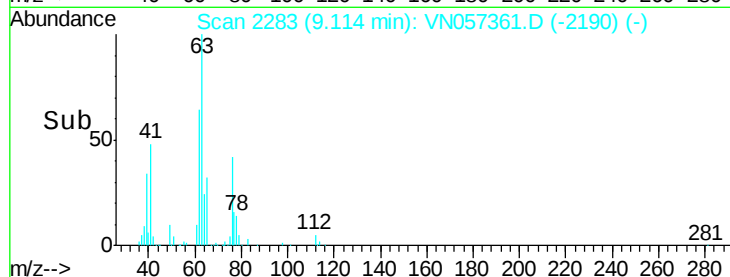
40000

20000

0

Time-->

9.00 9.10 9.20



#46

Dibromomethane

Concen: 19.770 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

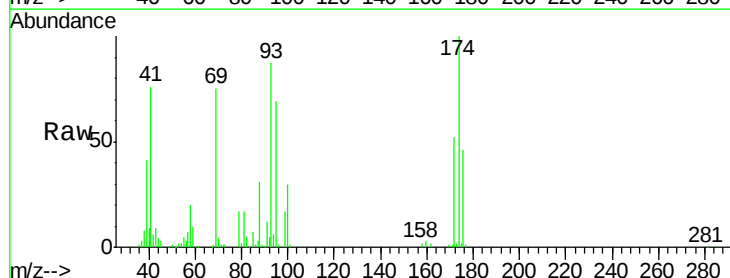
Tgt Ion: 93 Resp: 117800

Ion Ratio Lower Upper

93 100

95 81.0 66.5 99.7

174 118.8 95.7 143.5



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

9.20

80000

60000

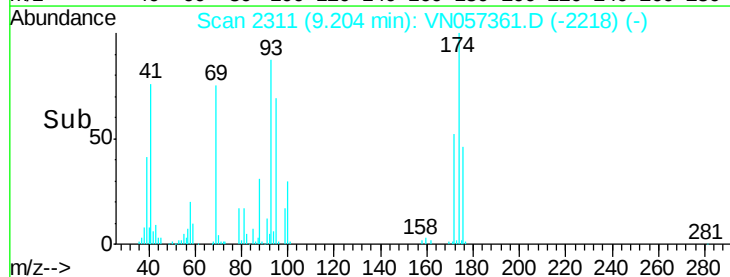
40000

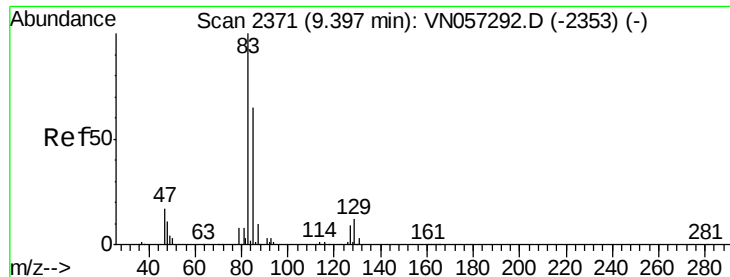
20000

0

Time-->

9.10 9.15 9.20 9.25 9.30





#47

Bromodichloromethane

Concen: 19.061 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

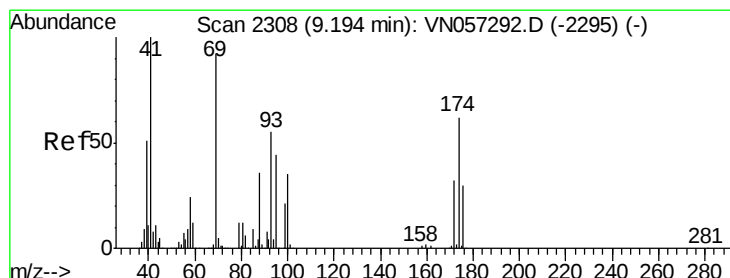
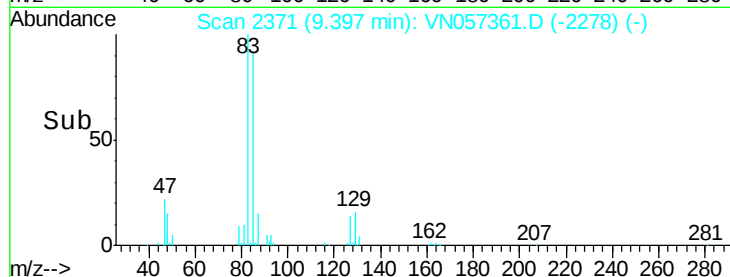
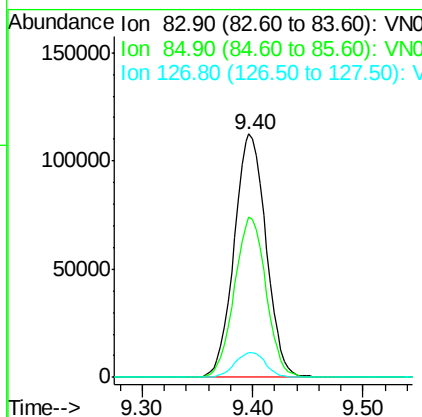
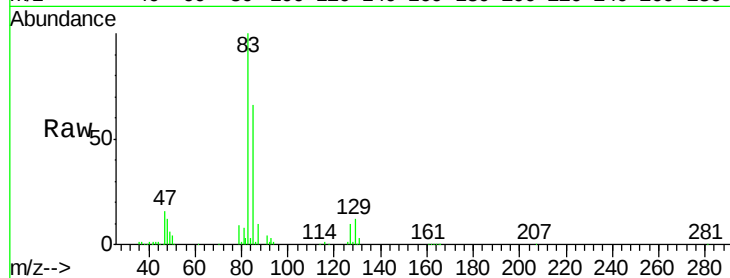
ClientSampleId :

VN0818WBS01

Tot Ion:	83	Resp:	225030
Ion Ratio	Lower	Upper	
83	100		
85	65.8	51.9	77.9
127	10.1	7.2	10.8

Manual Integrations
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#48

Methyl methacrylate

Concen: 18.886 ug/l

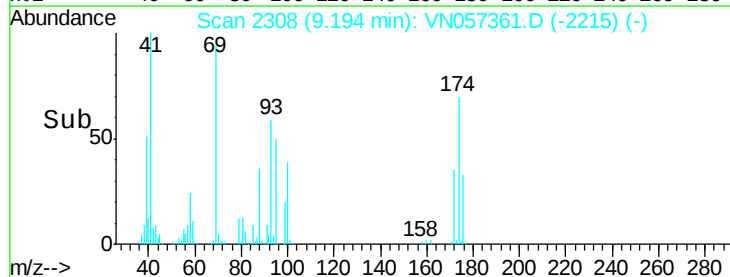
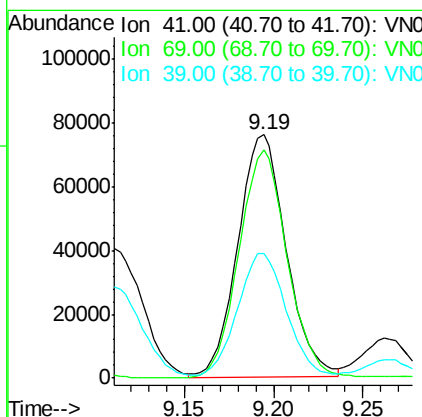
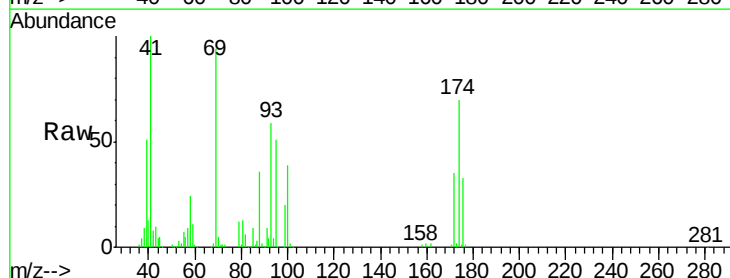
RT: 9.19 min Scan# 2308

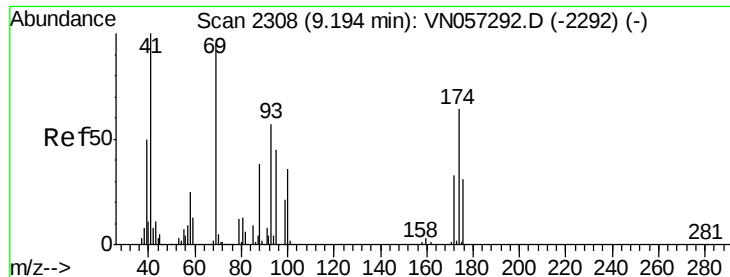
Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Tgt Ion:	41	Resp:	144308
Ion Ratio	Lower	Upper	
41	100		
69	94.1	75.9	113.9
39	52.1	42.3	63.5





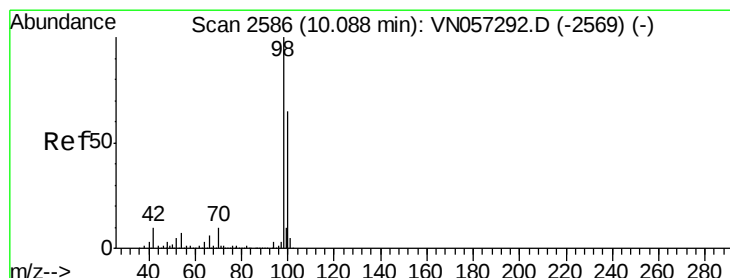
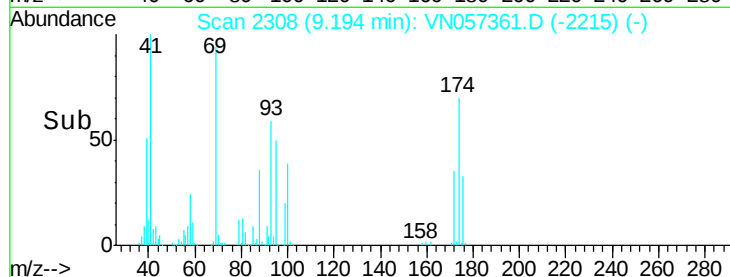
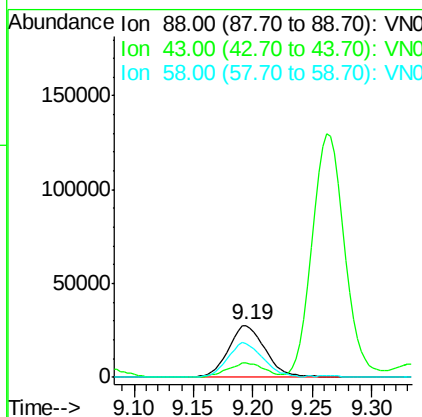
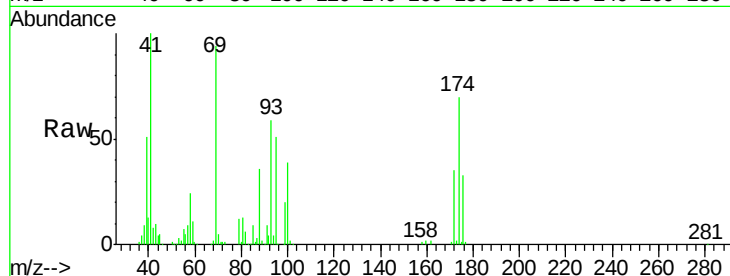
#49
1,4-Dioxane
Concen: 371.286 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Instrument :
MSVOA_N
ClientSampled :
VN0818WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	27.1	22.9	34.3
58	64.7	52.7	79.1

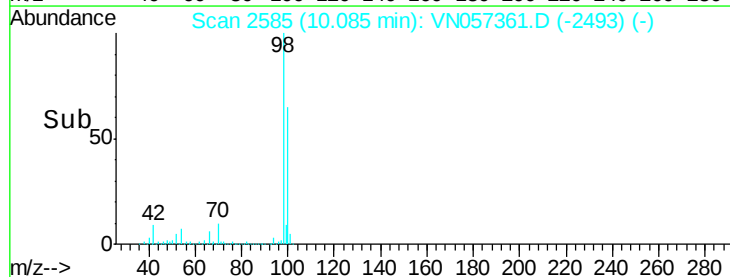
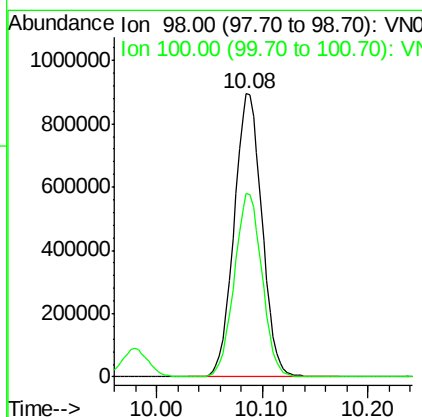
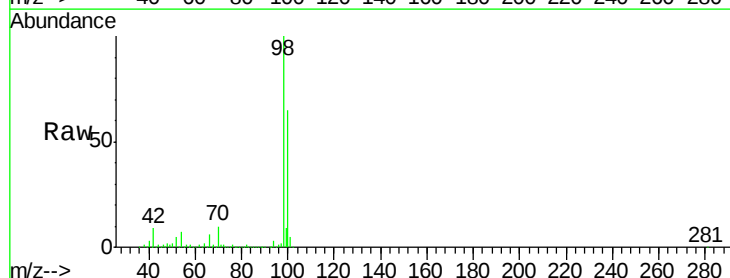
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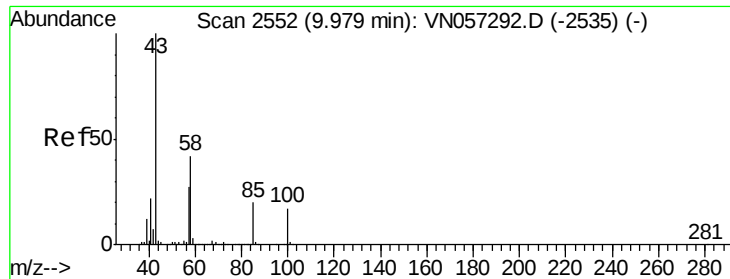
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#50
Toluene-d8
Concen: 53.074 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 93.605 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

VN0818WBS01

Tot Ion: 43 Resp: 896045

Ion Ratio Lower Upper

43 100

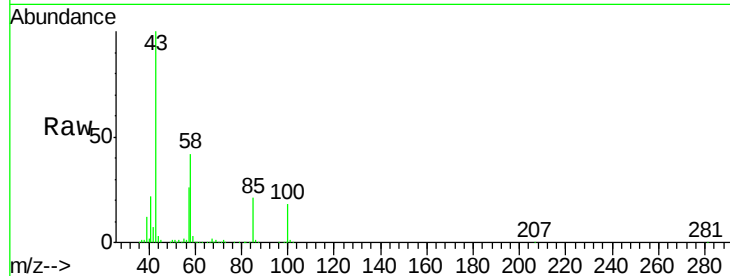
58 41.6 33.2 49.8

Manual Integrations

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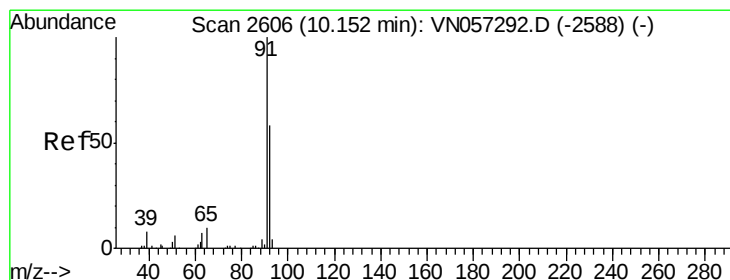
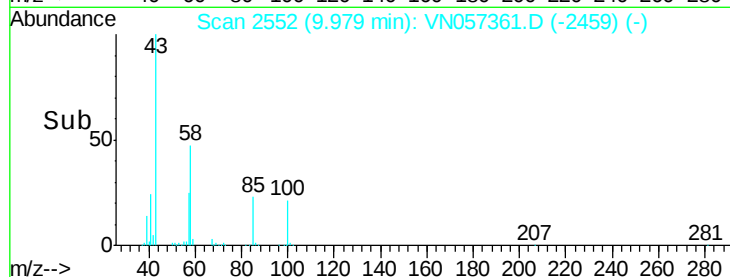
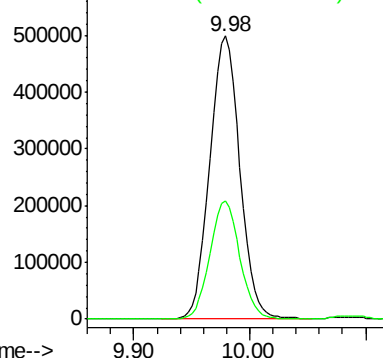
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 19.723 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN057361.D

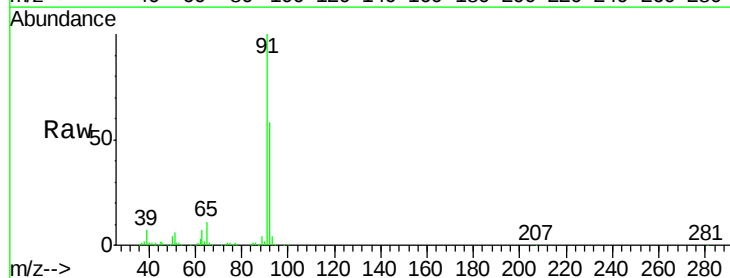
Acq: 16 Aug 2019 18:22

Tgt Ion: 92 Resp: 425390

Ion Ratio Lower Upper

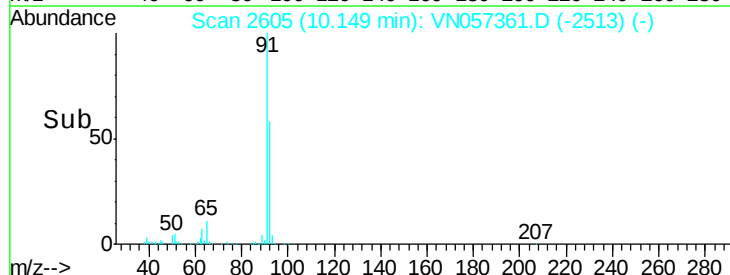
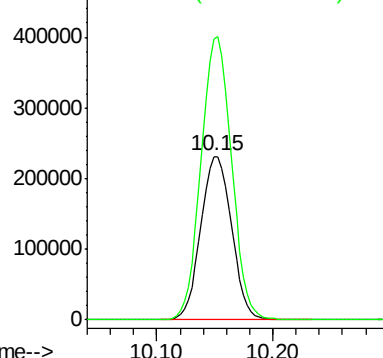
92 100

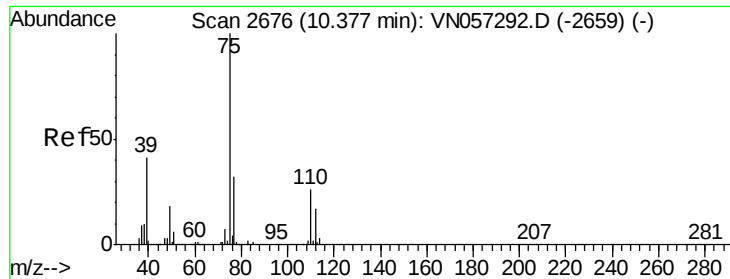
91 171.5 138.9 208.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





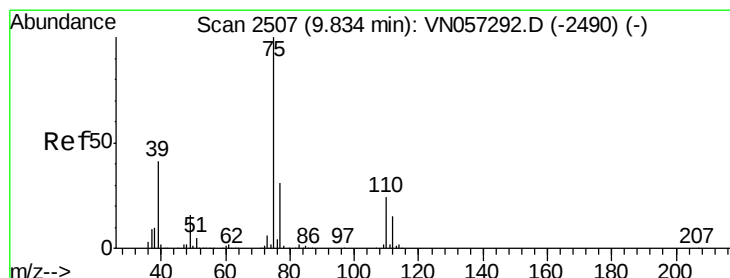
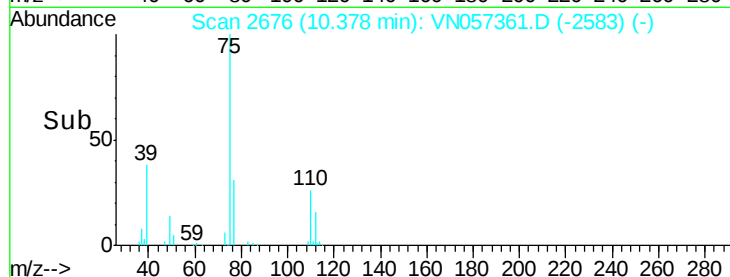
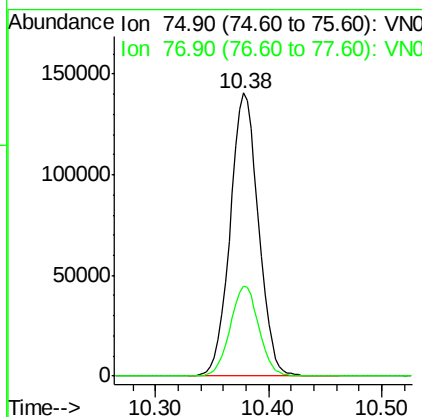
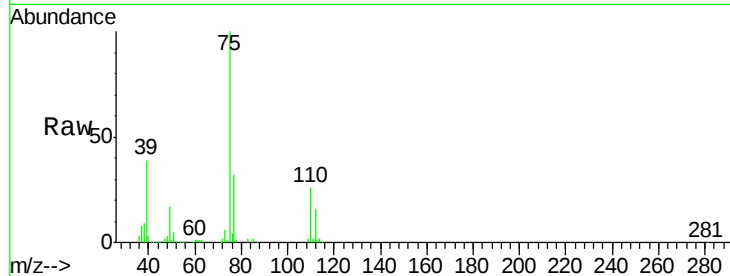
#53
t-1,3-Dichloropropene
Concen: 19.194 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Instrument :
MSVOA_N
ClientSampleId :
VN0818WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.5	38.3

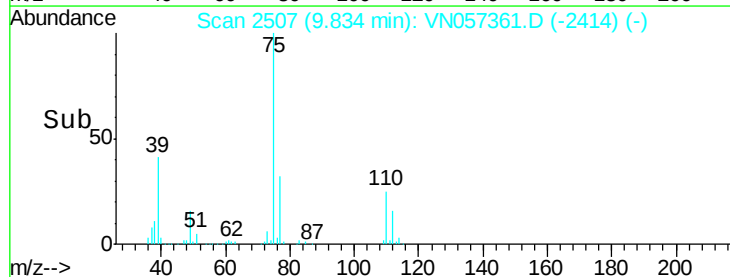
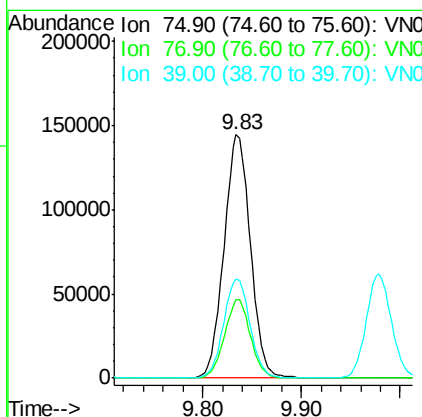
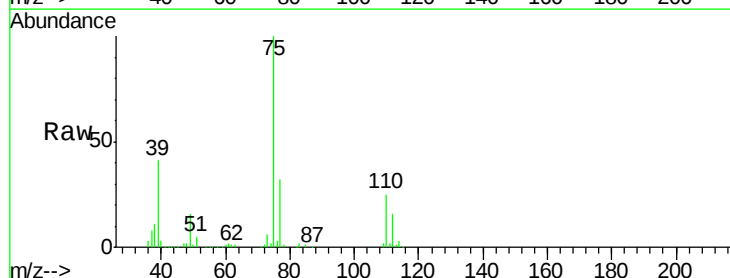
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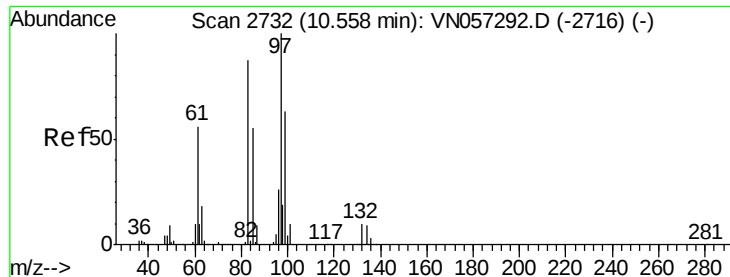
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#54
cis-1,3-Dichloropropene
Concen: 19.262 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.9	37.3
39	40.6	32.7	49.1





#55

1,1,2-Trichloroethane

Concen: 19.839 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

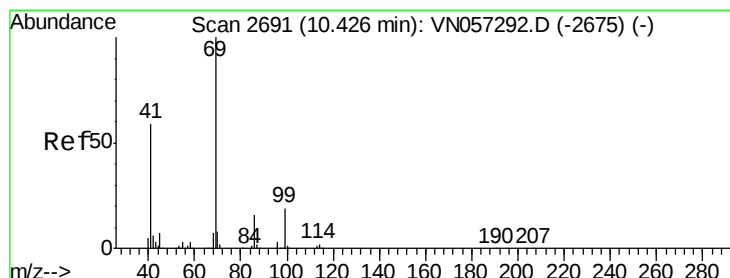
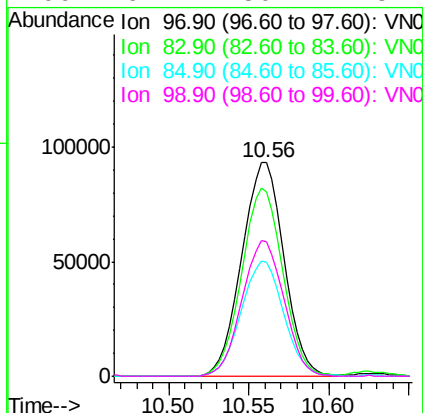
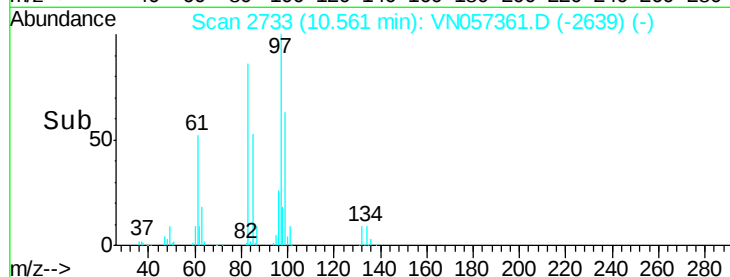
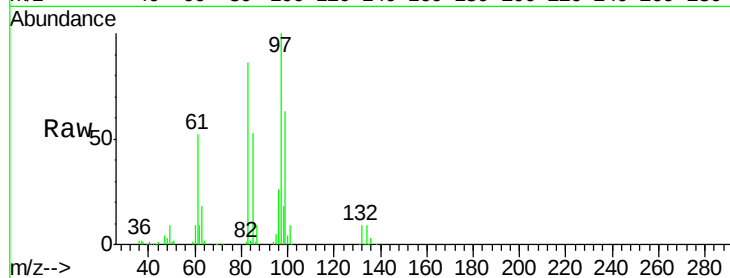
ClientSampled :

VN0818WBS01

Tot Ion:	97	Resp:	168254
Ion Ratio	Lower	Upper	
97	100		
83	86.0	69.8	104.8
85	53.4	44.1	66.1
99	62.7	50.2	75.2

Manual Integrations
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#56

Ethyl methacrylate

Concen: 19.125 ug/l

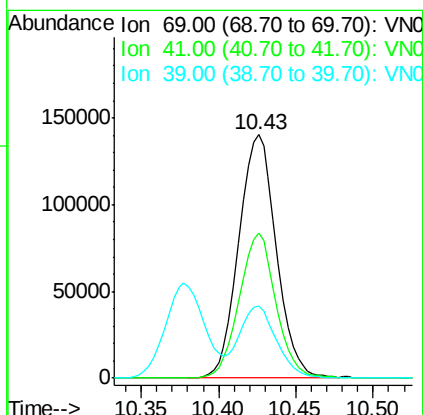
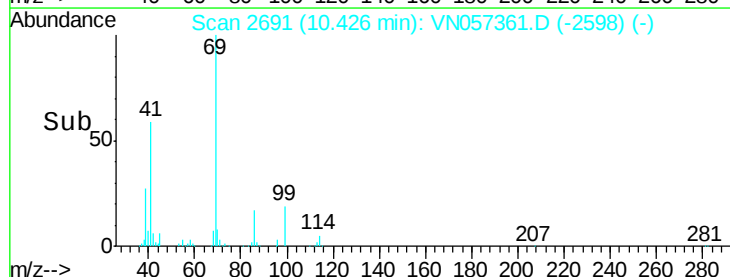
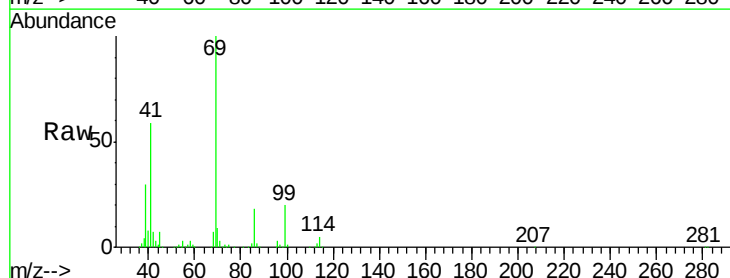
RT: 10.43 min Scan# 2691

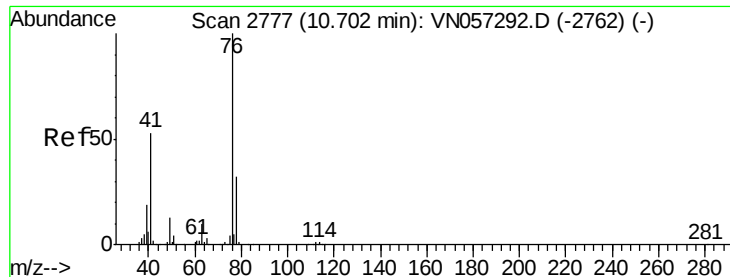
Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Tgt Ion:	69	Resp:	236698
Ion Ratio	Lower	Upper	
69	100		
41	57.7	48.2	72.2
39	29.0	23.4	35.0





#57

1,3-Dichloropropane

Concen: 19.188 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

VN0818WBS01

Tot Ion: 76 Resp: 271860

Ion Ratio Lower Upper

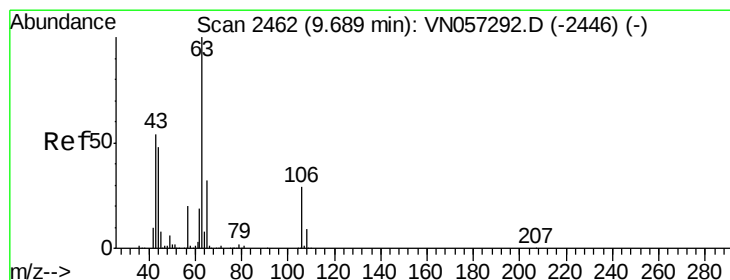
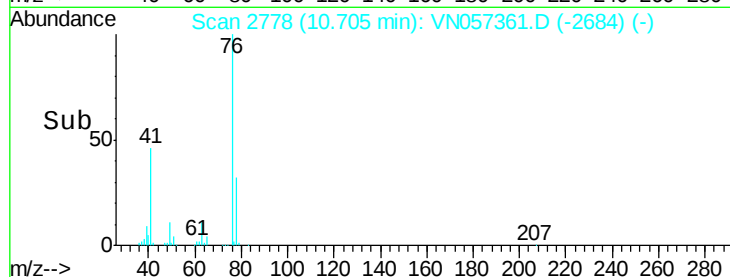
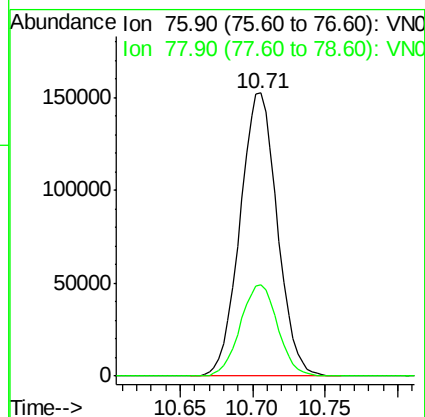
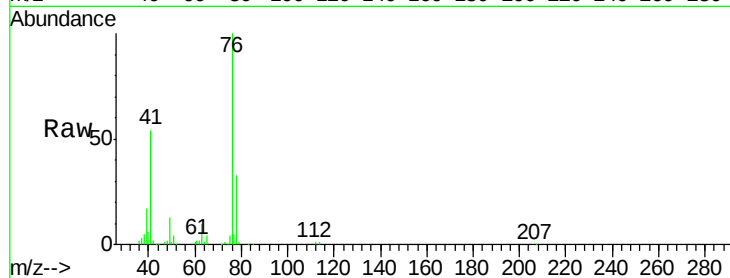
76 100

78 32.5 25.6 38.4

Manual Integrations
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#58

2-Chloroethyl Vinyl ether

Concen: 79.934 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN057361.D

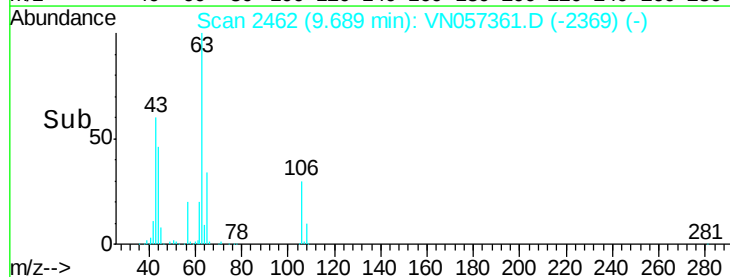
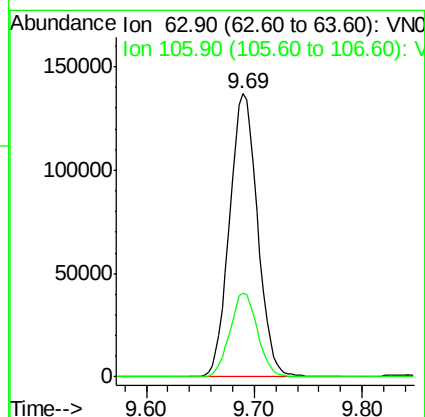
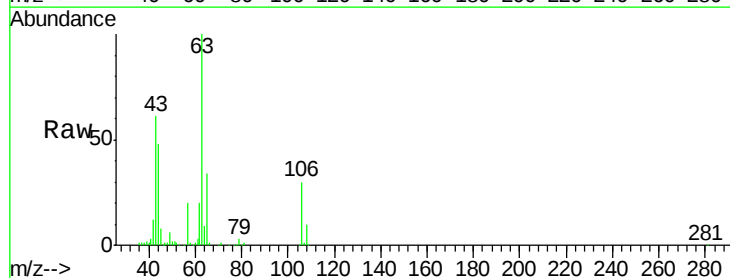
Acq: 16 Aug 2019 18:22

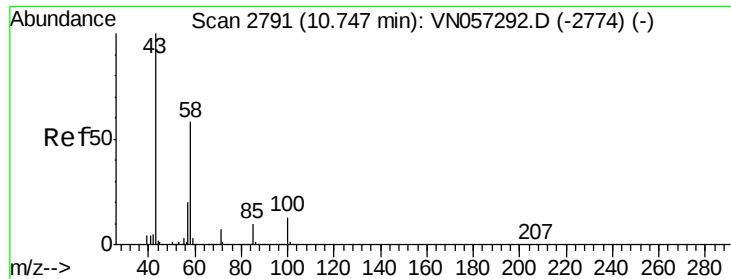
Tgt Ion: 63 Resp: 248941

Ion Ratio Lower Upper

63 100

106 29.2 23.2 34.8





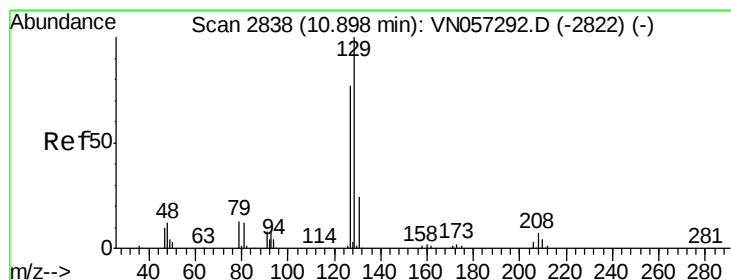
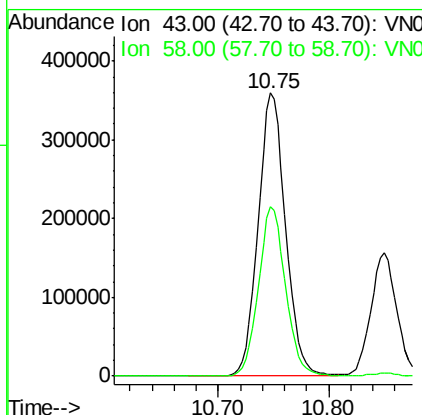
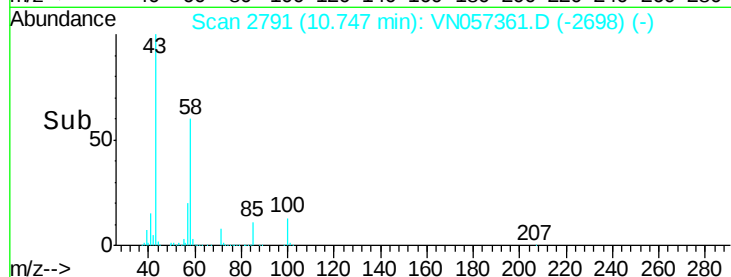
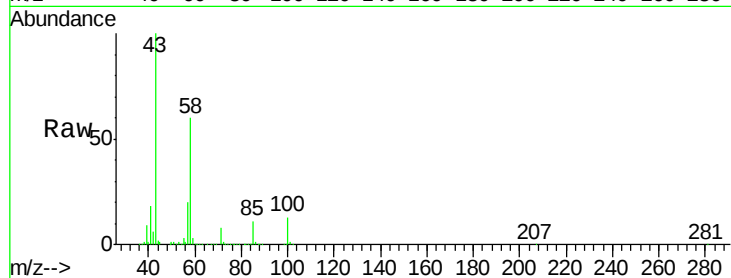
#59
2-Hexanone
Concen: 89.902 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Instrument :
MSVOA_N
ClientSampleId :
VN0818WBS01

Tot Ion: 43 Resp: 618706
Ion Ratio Lower Upper
43 100
58 59.1 28.6 85.9

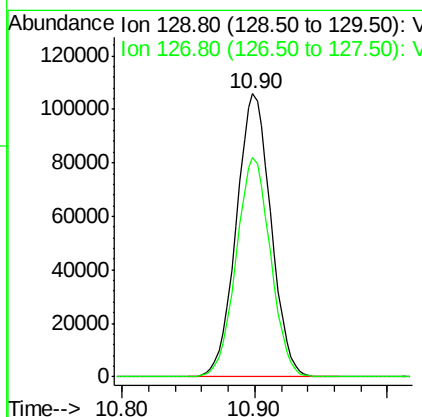
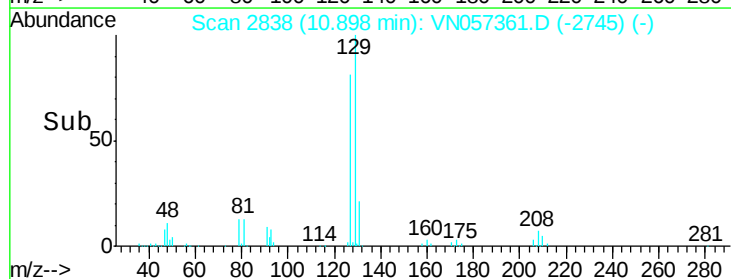
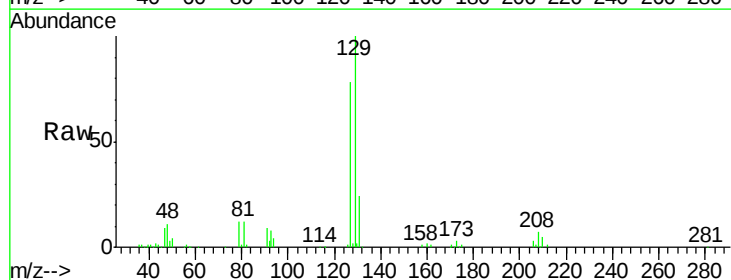
Manual Integrations
APPROVED

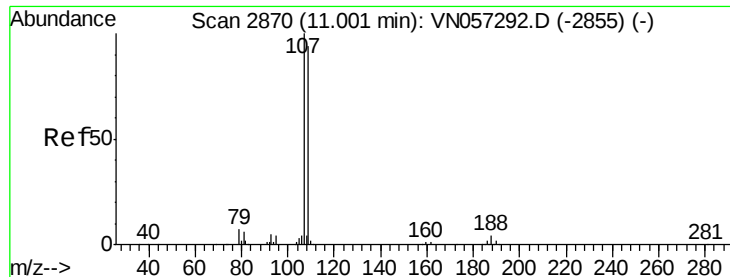
MMDadoda
8/19/2019 12:19:23 PM



#60
Dibromochloromethane
Concen: 20.144 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Tgt Ion: 129 Resp: 191453
Ion Ratio Lower Upper
129 100
127 76.8 39.0 116.9





#61

1,2-Dibromoethane

Concen: 19.535 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

VN0818WBS01

Tot Ion:107 Resp: 176483

Ion Ratio Lower Upper

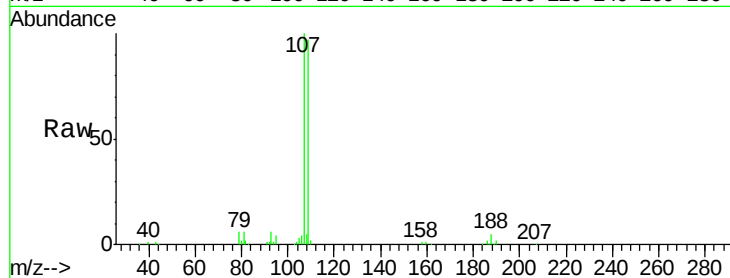
107 100

109 96.7 75.7 113.5

Manual Integrations
APPROVED

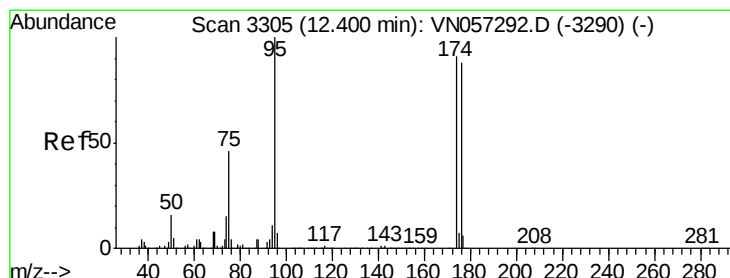
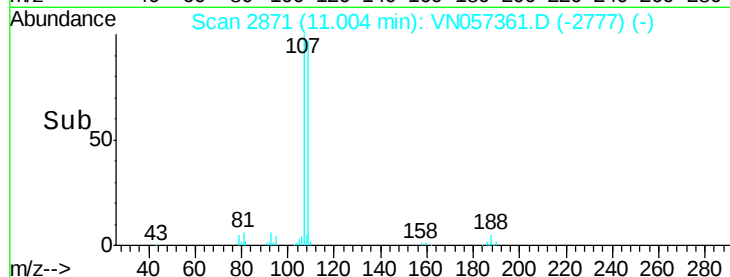
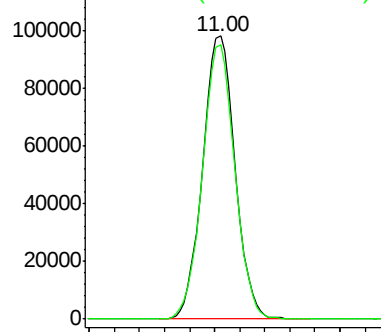
MMDadoda

8/19/2019 12:19:23 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 47.007 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

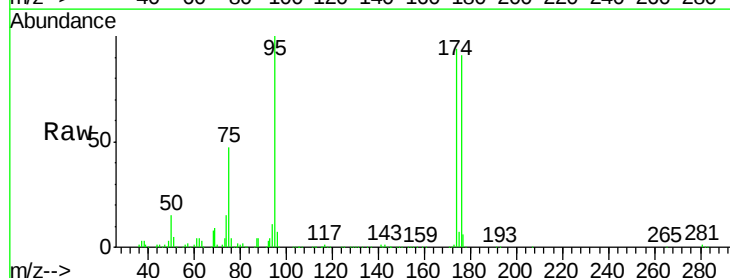
Tgt Ion: 95 Resp: 511041

Ion Ratio Lower Upper

95 100

174 95.2 0.0 185.0

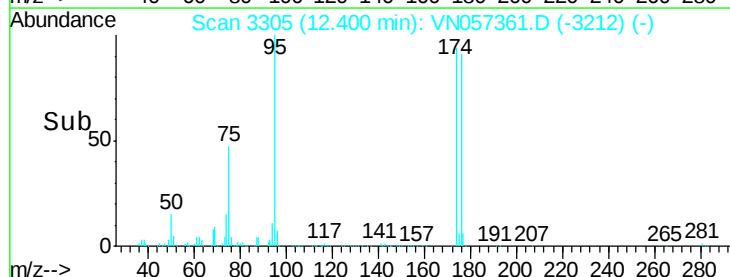
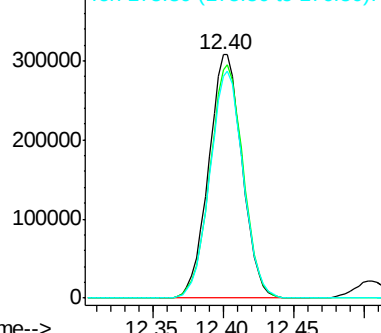
176 92.6 0.0 181.0

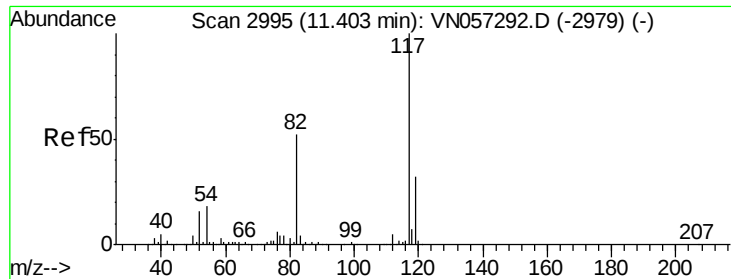


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





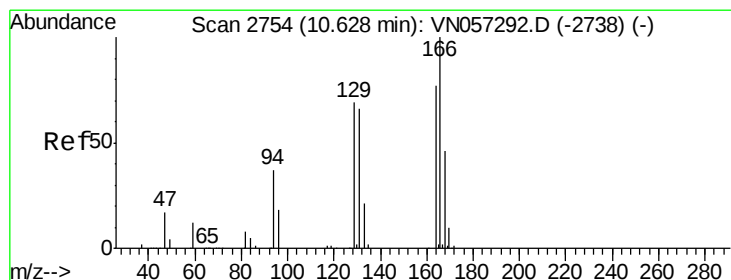
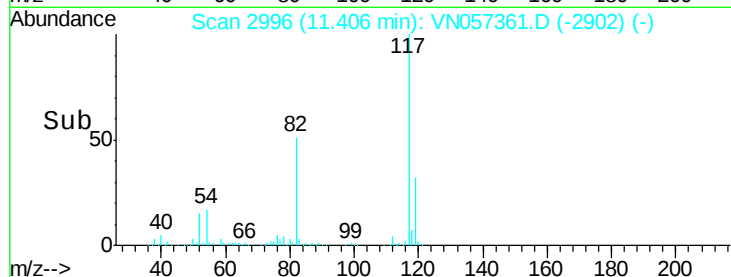
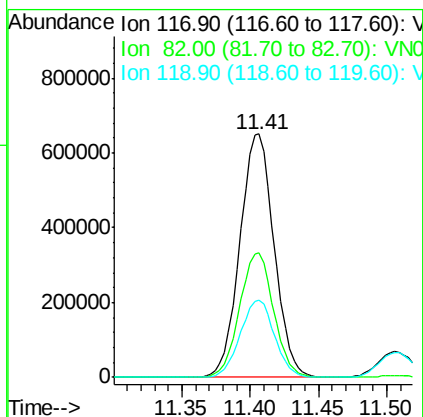
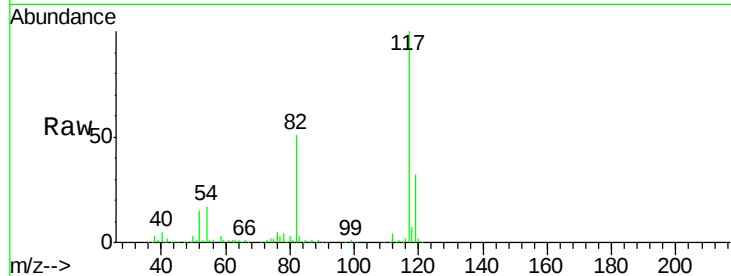
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Instrument :
MSVOA_N
ClientSampleId :
VN0818WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.0	41.2	61.8
119	32.0	25.8	38.8

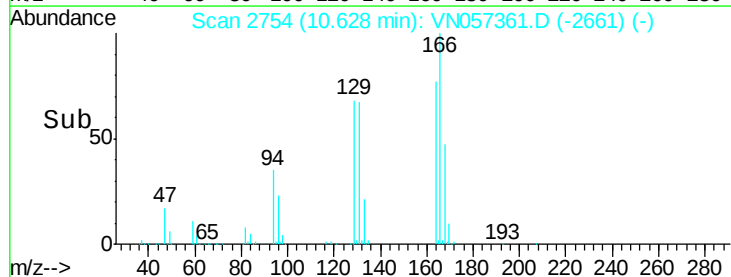
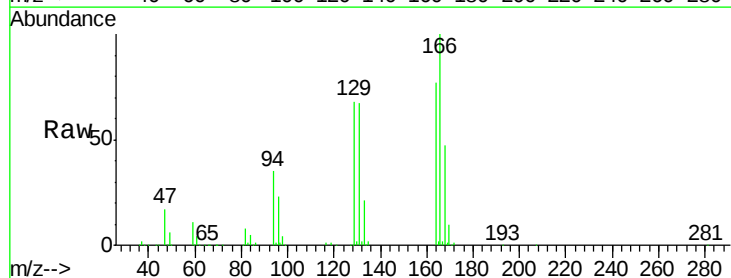
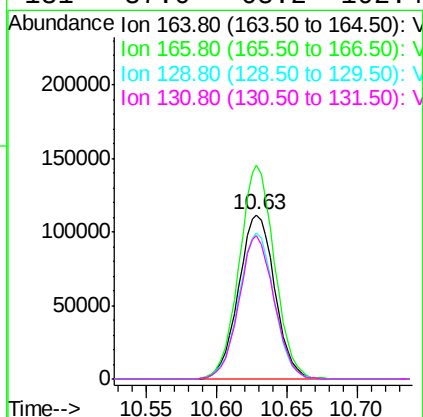
Manual Integrations
APPROVED

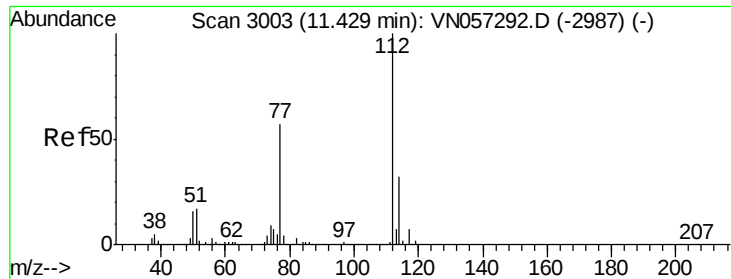
MMDadoda
8/19/2019 12:19:23 PM



#64
Tetrachloroethene
Concen: 20.547 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.0	103.5	155.3
129	88.8	71.2	106.8
131	87.0	68.2	102.4





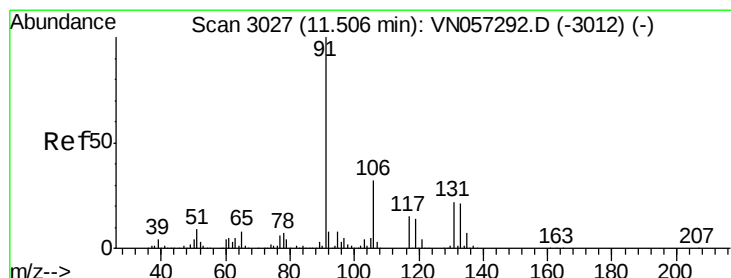
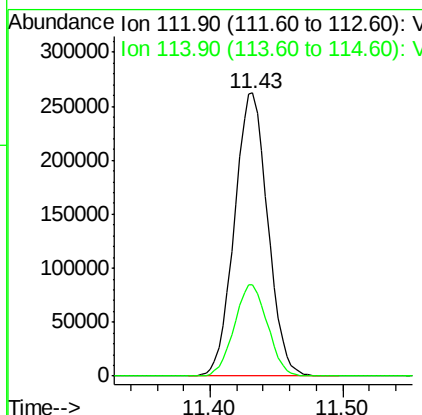
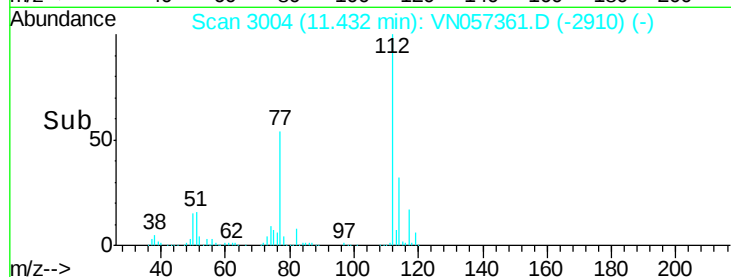
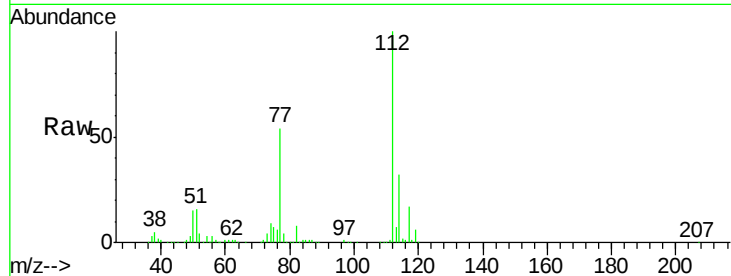
#65
Chlorobenzene
Concen: 19.831 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Instrument :
MSVOA_N
ClientSampleId :
VN0818WBS01

Tot Ion:112 Resp: 457092
Ion Ratio Lower Upper
112 100
114 32.1 25.7 38.5

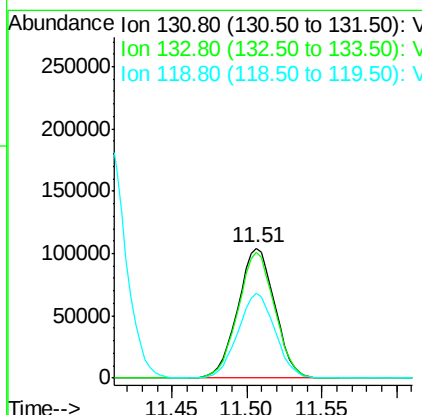
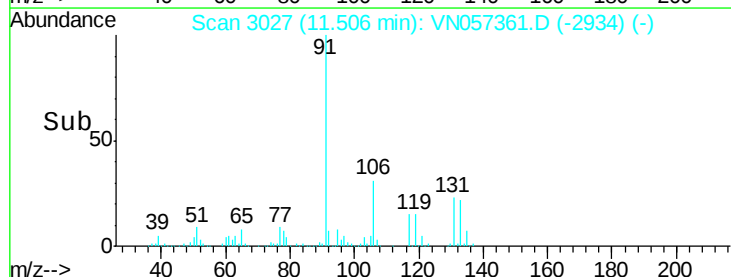
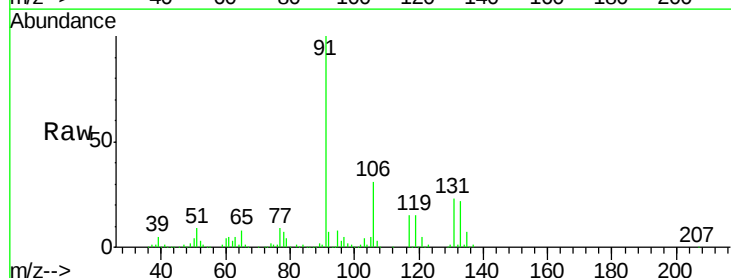
Manual Integrations
APPROVED

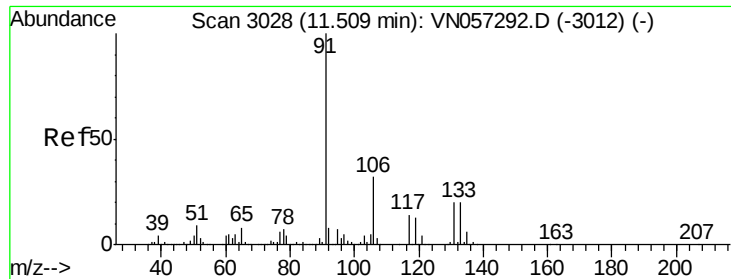
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.394 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Tgt Ion:131 Resp: 180021
Ion Ratio Lower Upper
131 100
133 95.5 47.6 142.8
119 64.9 32.0 96.2





#67

Ethyl Benzene

Concen: 19.542 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampled :

VN0818WBS01

Tot Ion: 91 Resp: 788033

Ion Ratio Lower Upper

91 100

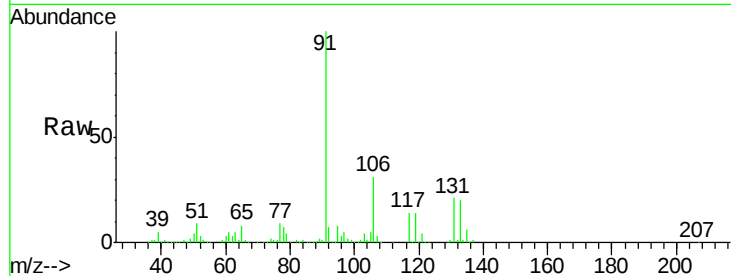
106 31.4 25.5 38.3

Manual Integrations

APPROVED

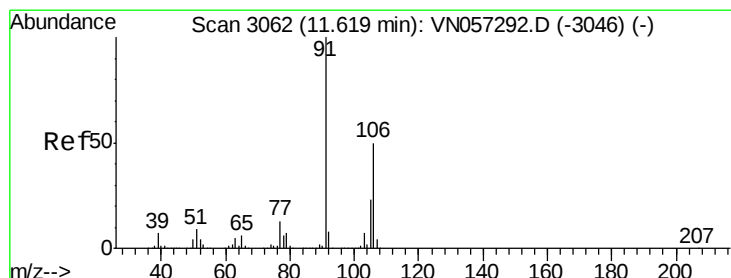
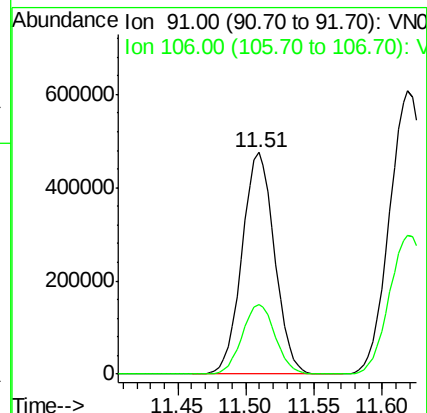
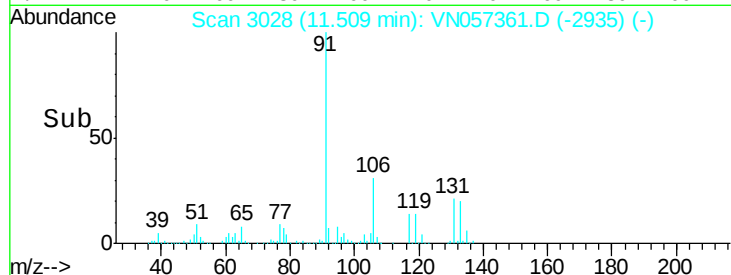
MMDadoda

8/19/2019 12:19:23 PM



Abundance Ion 91.00 (90.70 to 91.70): VN057361.D (-2935) (-)

Ion 106.00 (105.70 to 106.70): VN057361.D (-2935) (-)



#68

m/p-Xylenes

Concen: 39.274 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN057361.D

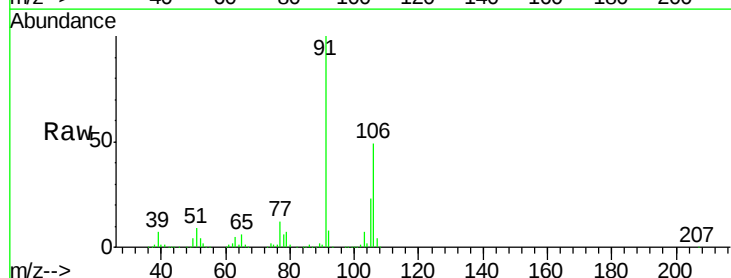
Acq: 16 Aug 2019 18:22

Tgt Ion: 106 Resp: 583508

Ion Ratio Lower Upper

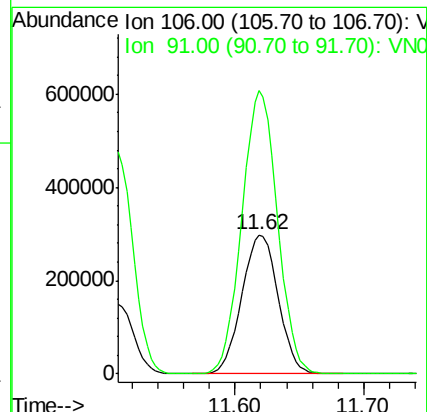
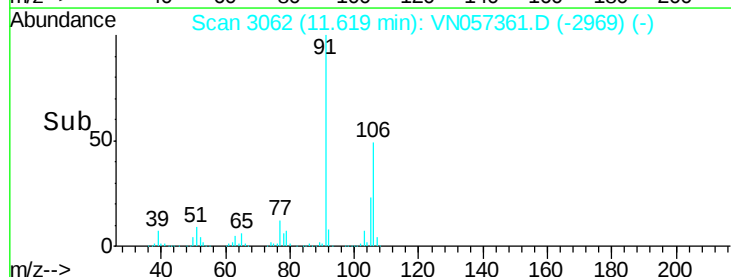
106 100

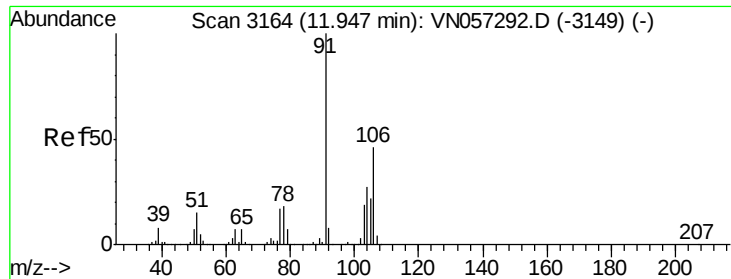
91 198.9 161.5 242.3



Abundance Ion 106.00 (105.70 to 106.70): VN057361.D (-2969) (-)

Ion 91.00 (90.70 to 91.70): VN057361.D (-2969) (-)





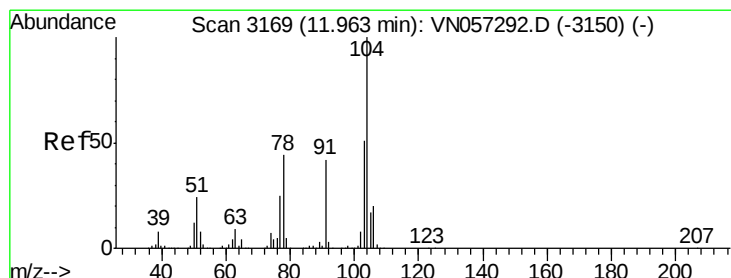
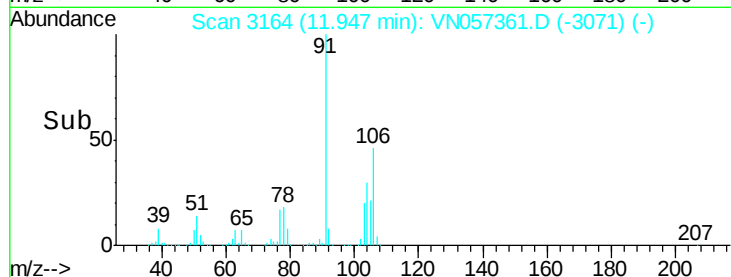
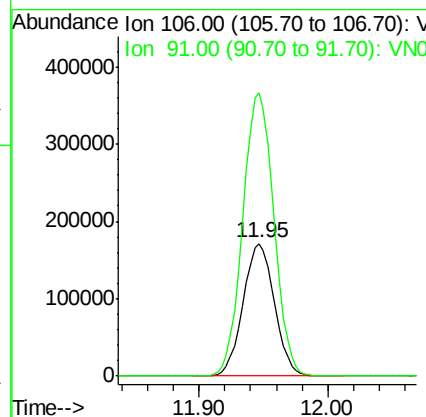
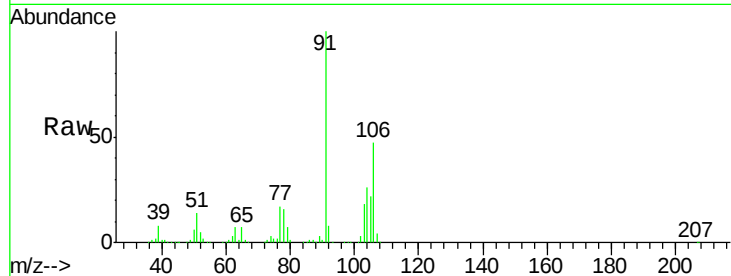
#69
o-Xylene
Concen: 19.798 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Instrument :
MSVOA_N
ClientSampled :
VN0818WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		288807		
91	212.7	106.3	319.0		

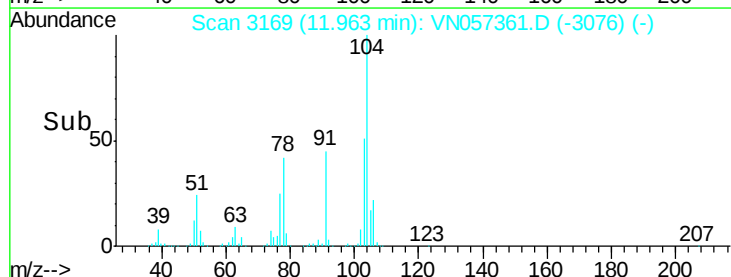
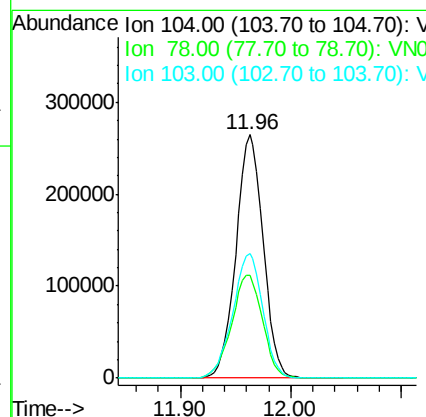
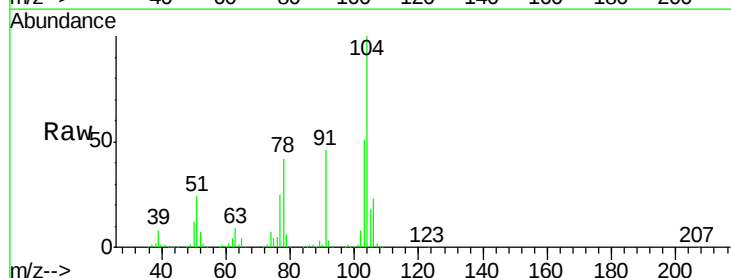
Manual Integrations
APPROVED

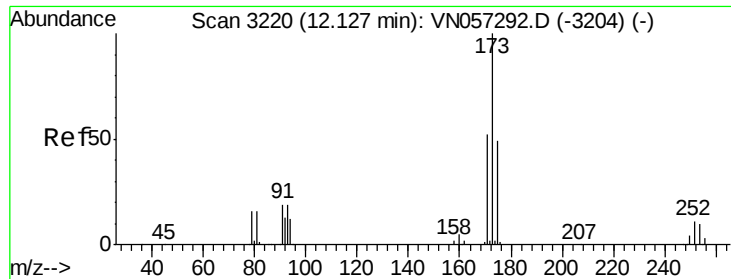
MMDadoda
8/19/2019 12:19:23 PM



#70
Styrene
Concen: 19.460 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		452515		
78	48.2	39.2	58.8		
103	56.6	44.6	66.8		





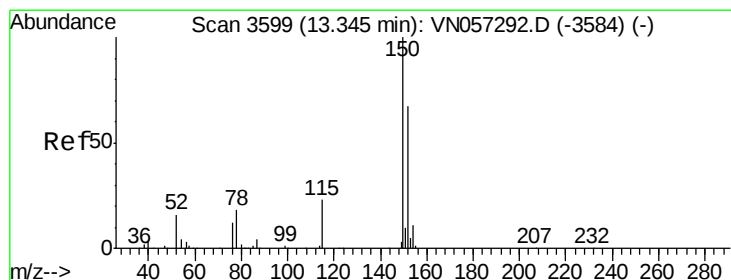
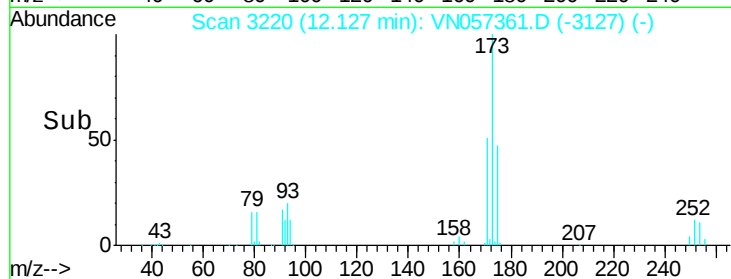
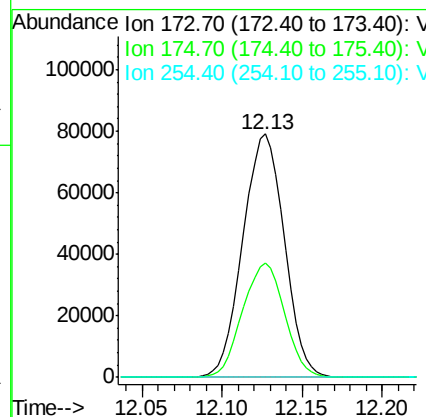
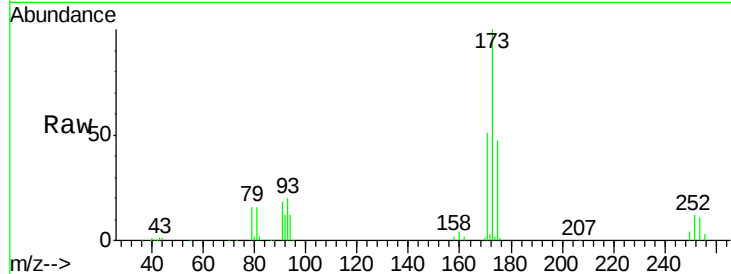
#71
Bromoform
Concen: 20.128 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Instrument :
MSVOA_N
ClientSampled :
VN0818WBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.8	24.2	72.6
254	0.0	0.2	0.2

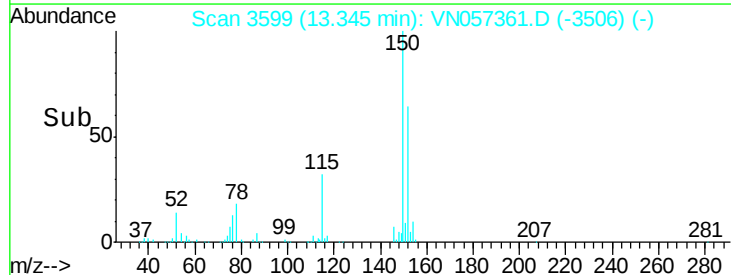
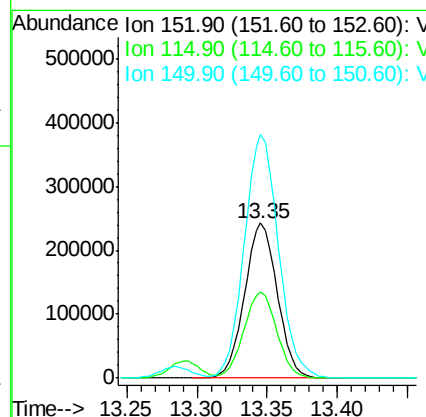
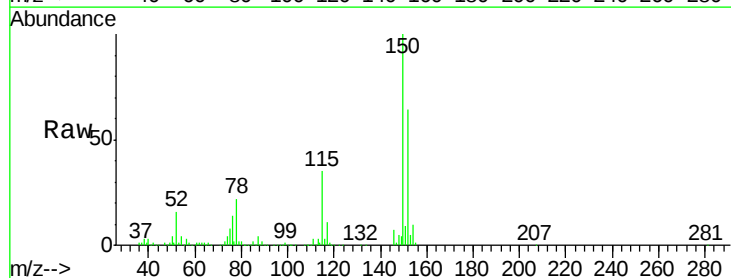
Manual Integrations
APPROVED

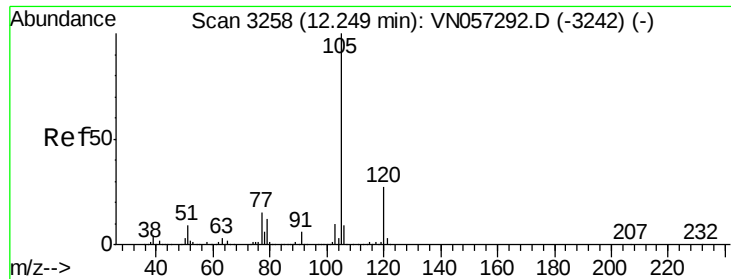
MMDadoda
8/19/2019 12:19:23 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.0	27.3	81.9
150	164.6	0.0	344.4





#73

Isopropylbenzene

Concen: 22.805 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

VN0818WBS01

Tot Ion: 105 Resp: 772158

Ion Ratio Lower Upper

105 100

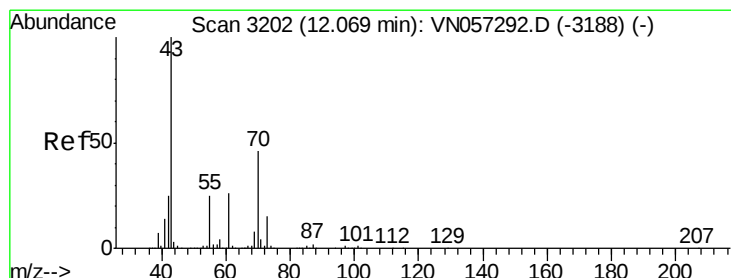
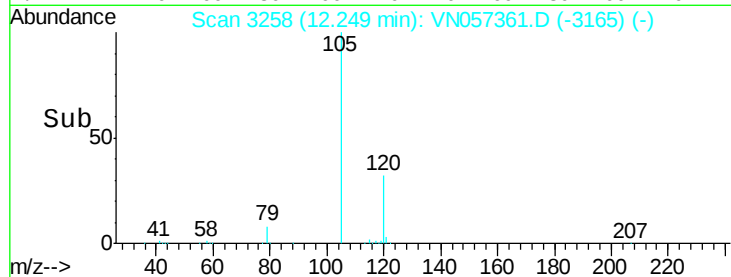
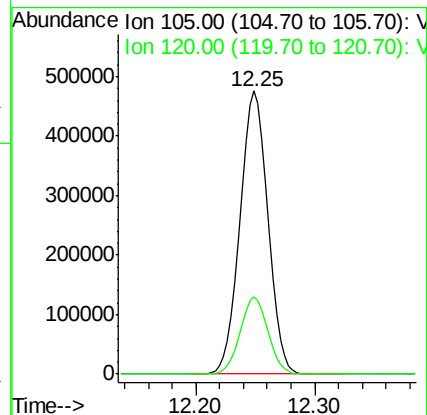
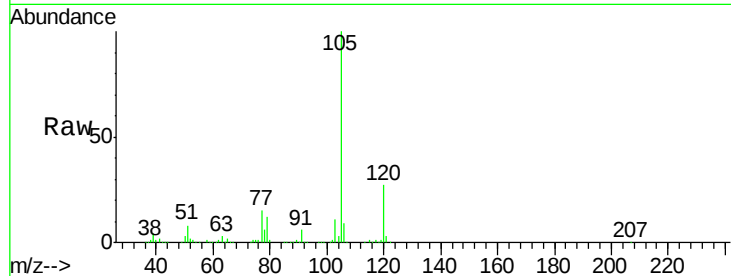
120 27.0 13.2 39.6

Manual Integrations

APPROVED

MMDadoda

8/19/2019 12:19:23 PM



#74

N-ethyl acetate

Concen: 19.473 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Tgt Ion: 43 Resp: 222612

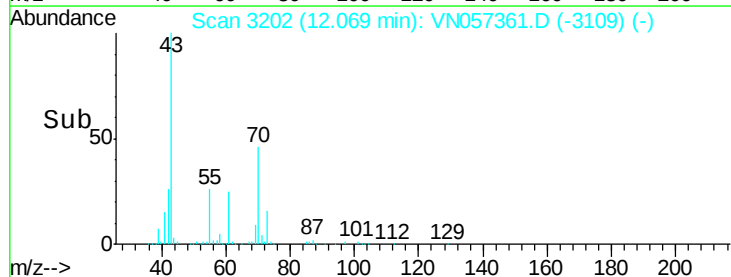
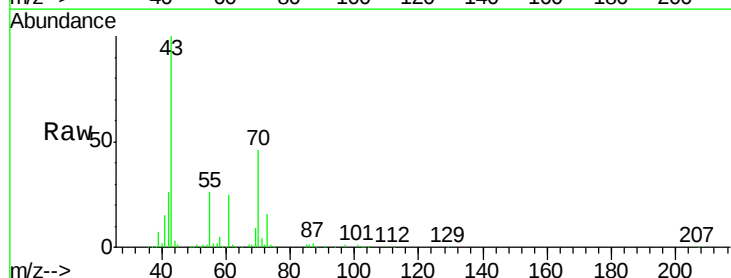
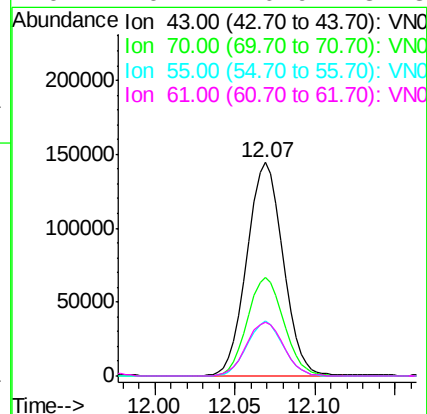
Ion Ratio Lower Upper

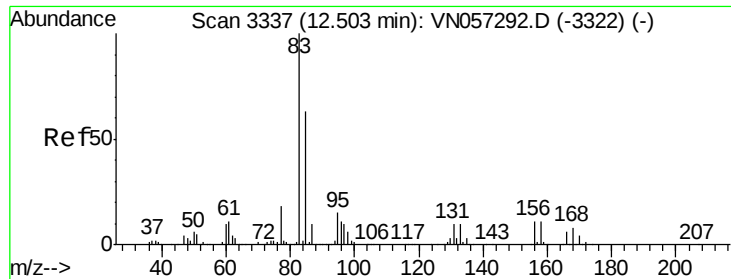
43 100

70 46.9 36.2 54.2

55 25.7 20.1 30.1

61 26.1 20.9 31.3





#75

1,1,2,2-Tetrachloroethane

Concen: 22.282 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

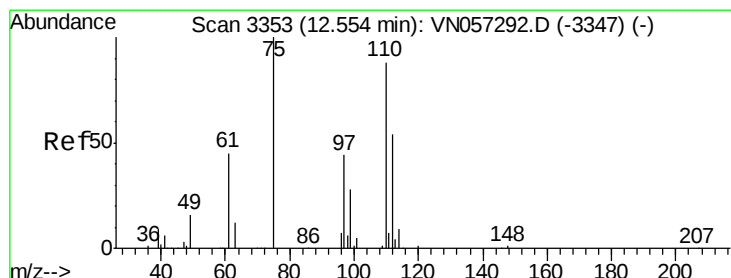
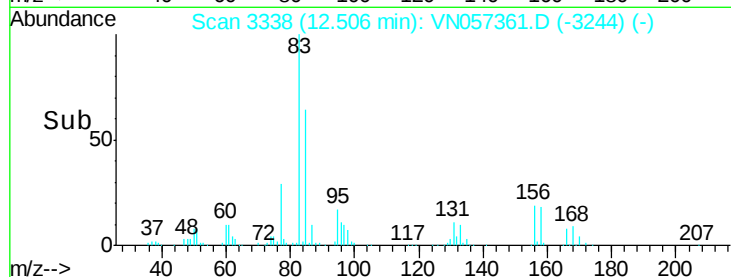
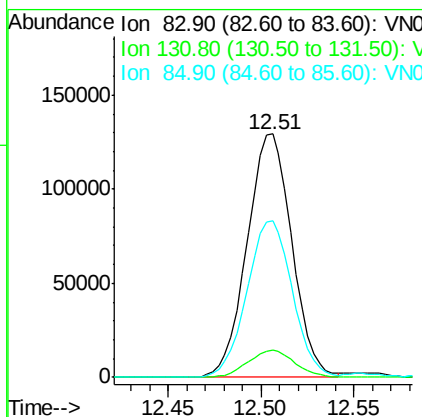
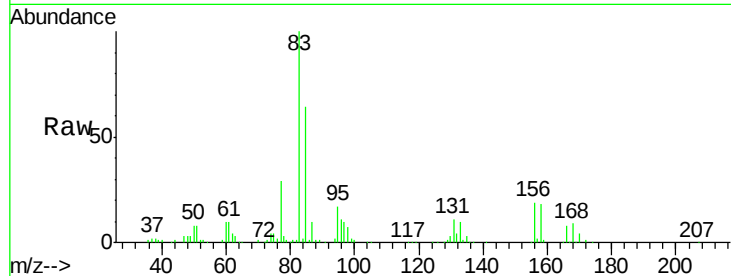
ClientSampleId :

VN0818WBS01

Tot Ion:	83	Resp:	216841
Ion Ratio	Lower	Upper	
83	100		
131	11.7	5.4	16.2
85	65.2	32.3	96.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.889 ug/l m

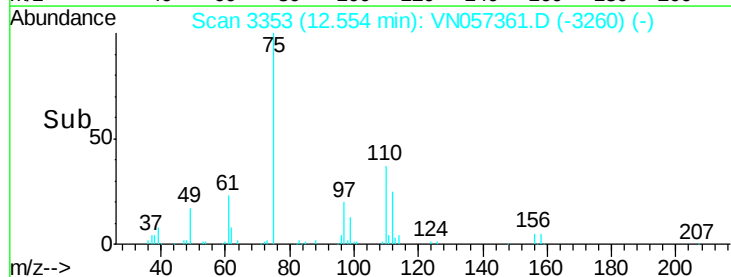
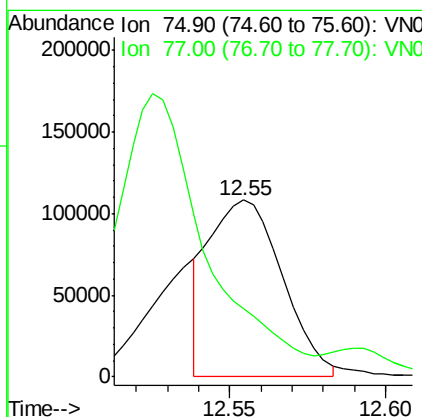
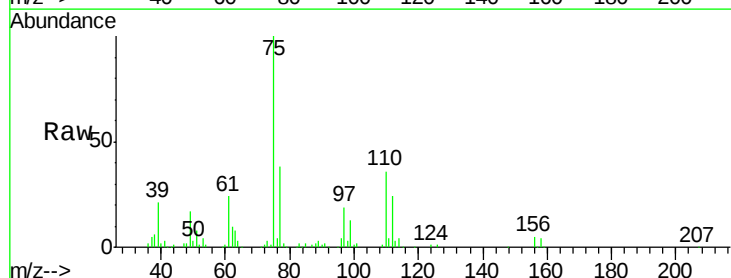
RT: 12.55 min Scan# 3353

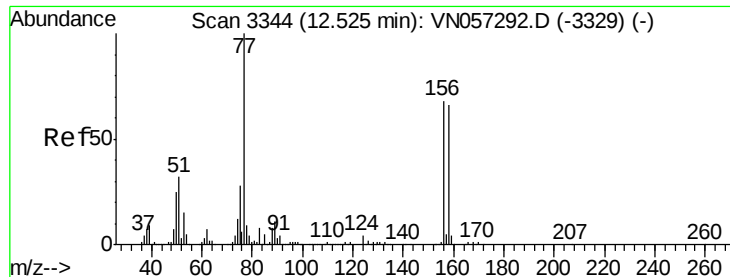
Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Tgt Ion:	75	Resp:	177911
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 22.599 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

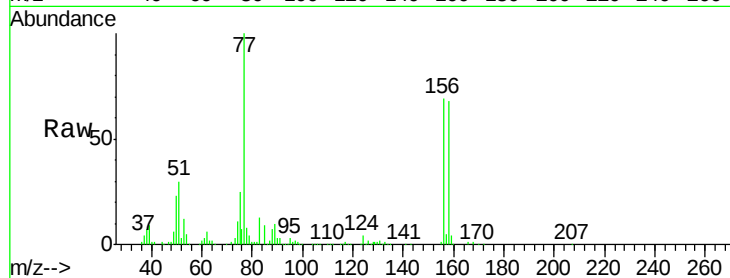
ClientSampleId :

VN0818WBS01

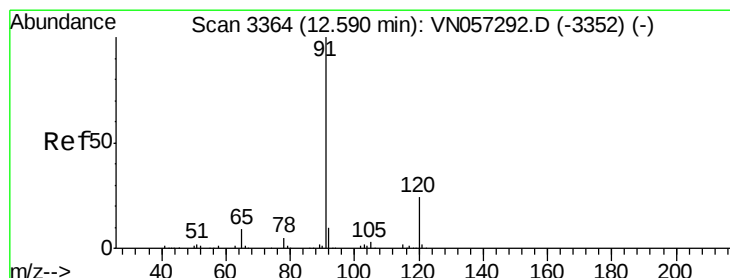
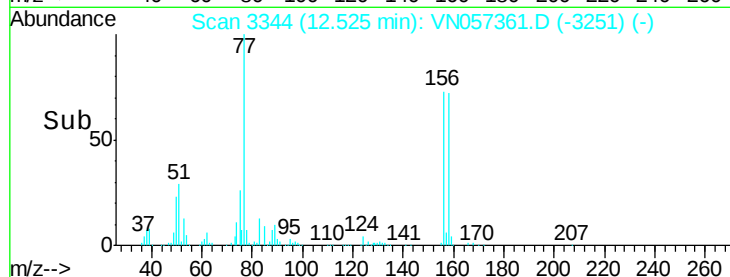
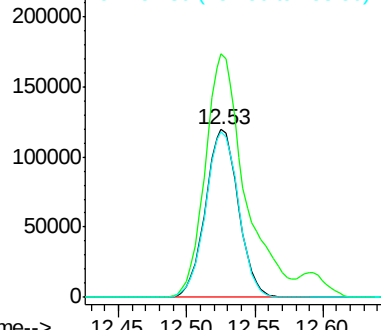
Tot Ion:	156	Resp:	200818
Ion Ratio	Lower	Upper	
156	100		
77	174.2	89.8	269.6
158	98.7	49.3	147.8

Manual Integrations
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Abundance Ion 155.80 (155.50 to 156.50): V



#78

n-propylbenzene

Concen: 19.931 ug/l

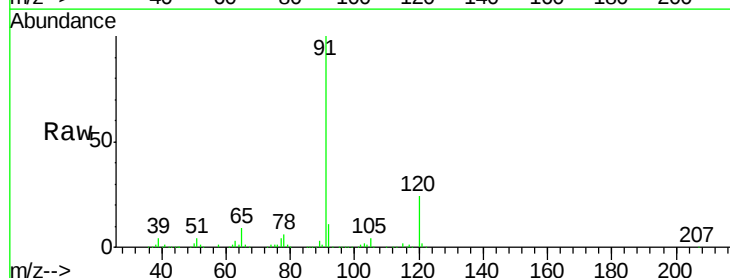
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

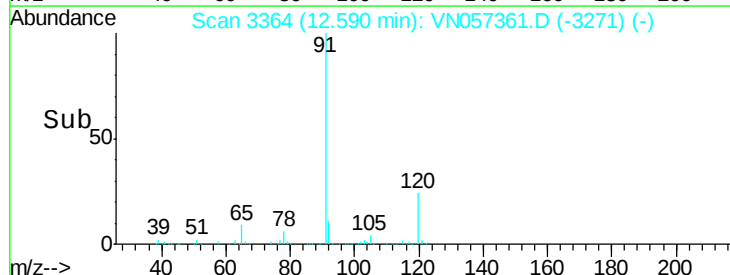
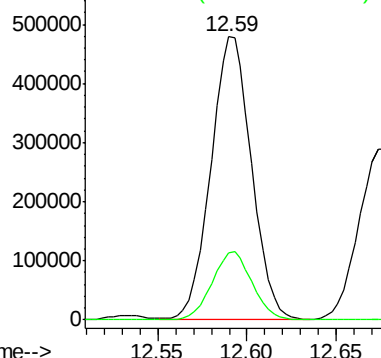
Lab File: VN057361.D

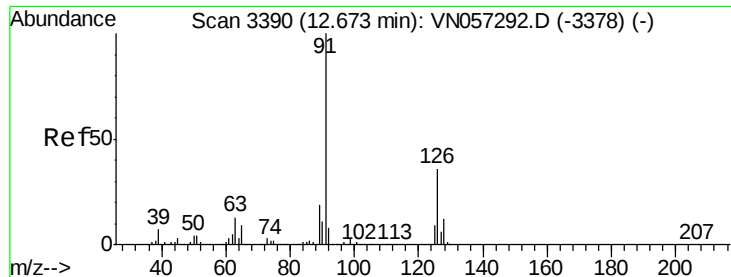
Acq: 16 Aug 2019 18:22

Tgt Ion:	91	Resp:	756141
Ion Ratio	Lower	Upper	
91	100		
120	23.8	11.9	35.7



Abundance Ion 91.00 (90.70 to 91.70): V





#79

2-Chlorotoluene

Concen: 22.132 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

VN0818WBS01

Tot Ion: 91 Resp: 486330

Ion Ratio Lower Upper

91 100

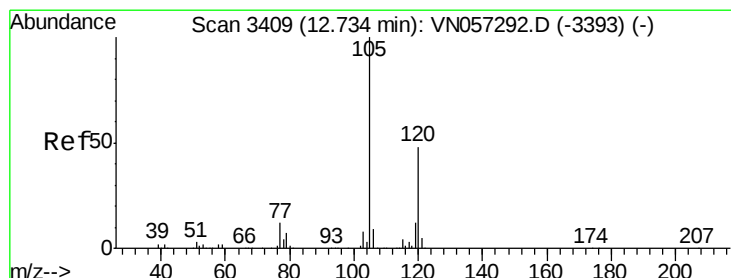
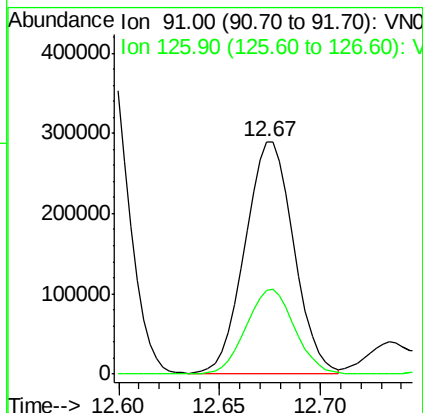
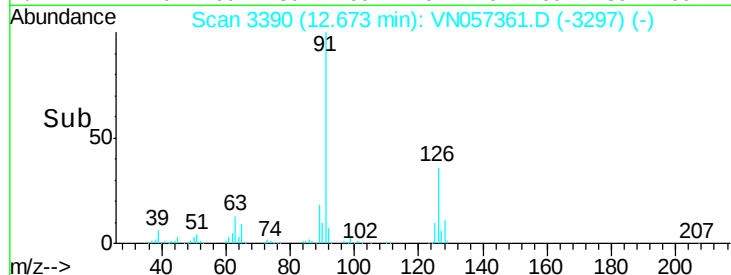
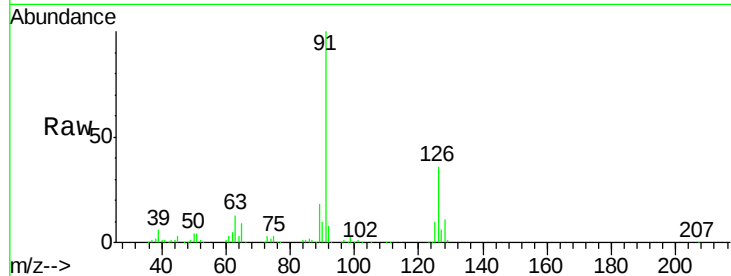
126 36.6 18.1 54.1

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 22.282 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057361.D

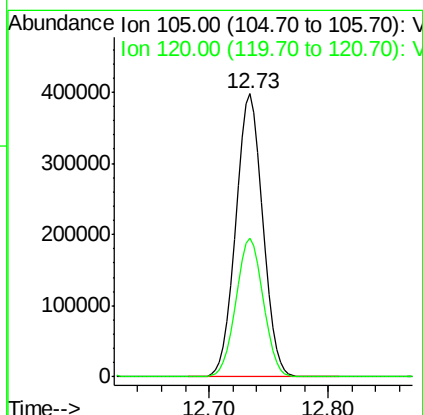
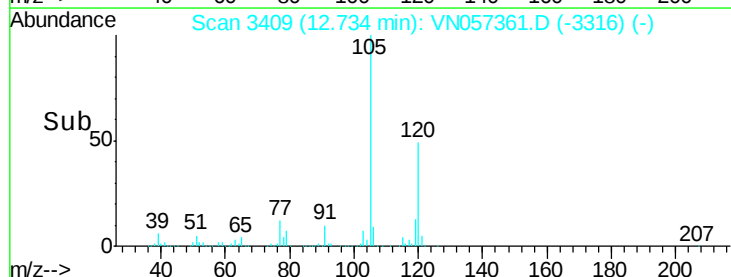
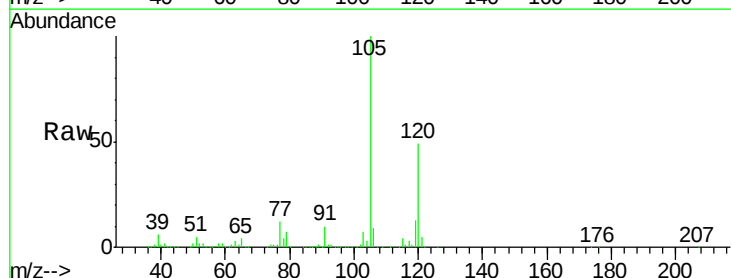
Acq: 16 Aug 2019 18:22

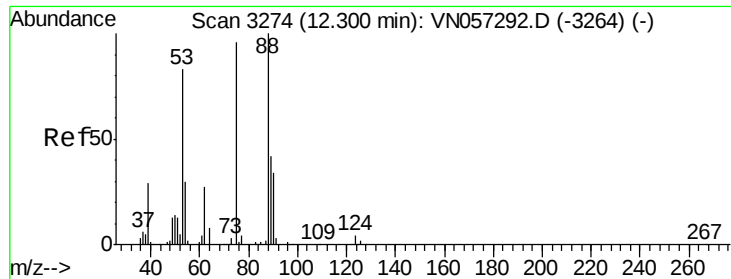
Tgt Ion: 105 Resp: 624642

Ion Ratio Lower Upper

105 100

120 49.4 24.3 73.0





#81

trans-1,4-Dichloro-2-butene

Concen: 19.851 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

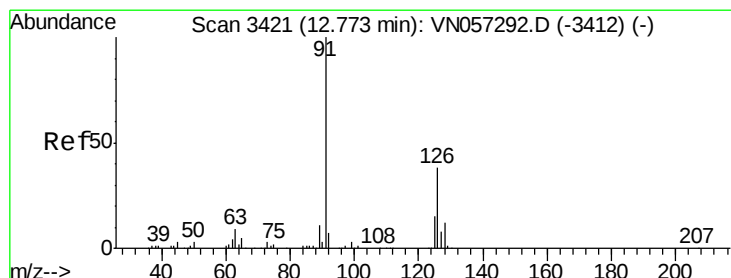
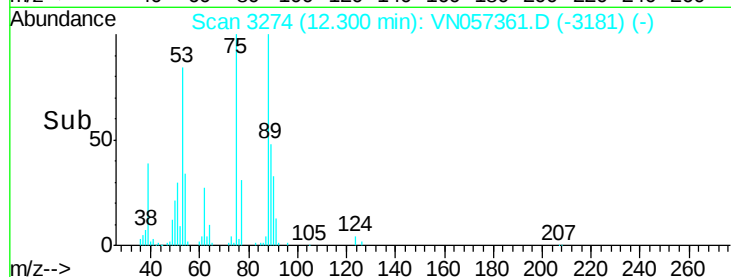
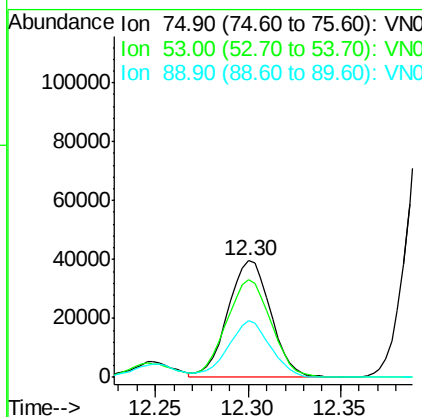
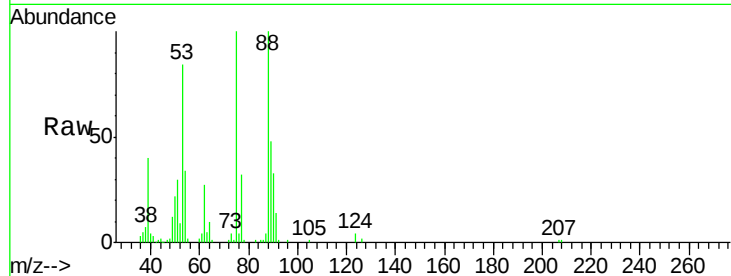
ClientSampled :

VN0818WBS01

Tot Ion:	75	Resp:	64134
Ion	Ratio	Lower	Upper
75	100		
53	86.0	67.9	101.9
89	47.5	36.2	54.4

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#82

4-Chlorotoluene

Concen: 19.349 ug/l

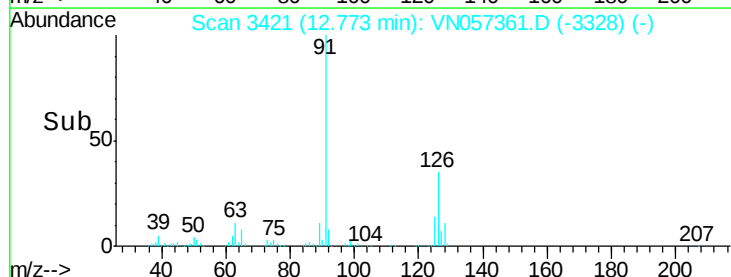
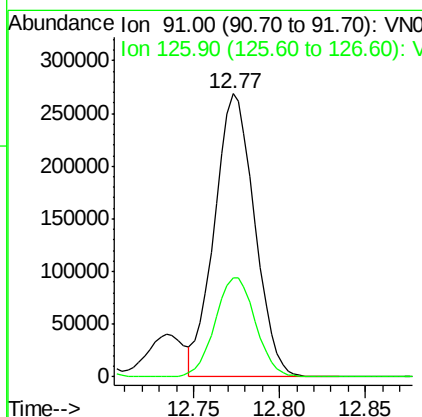
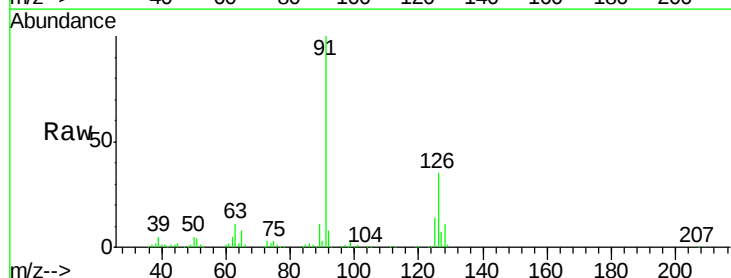
RT: 12.77 min Scan# 3421

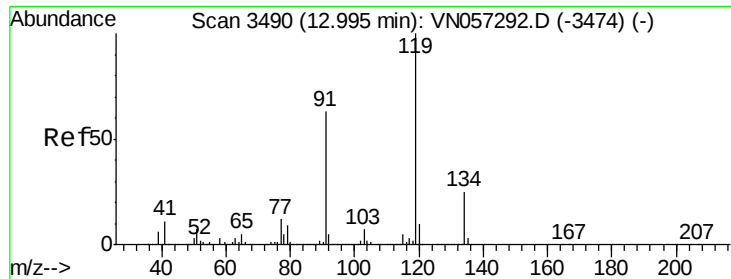
Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Tgt Ion:	91	Resp:	434975
Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.3	51.7





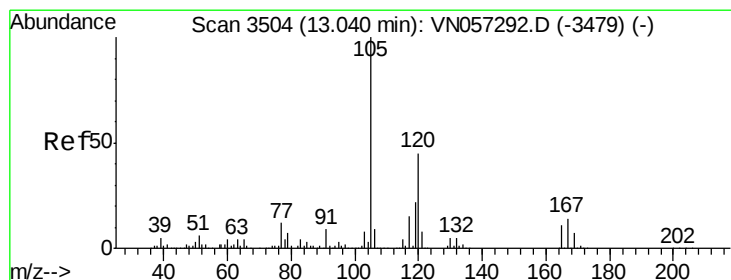
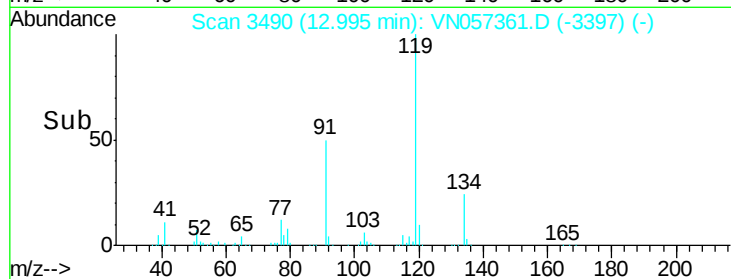
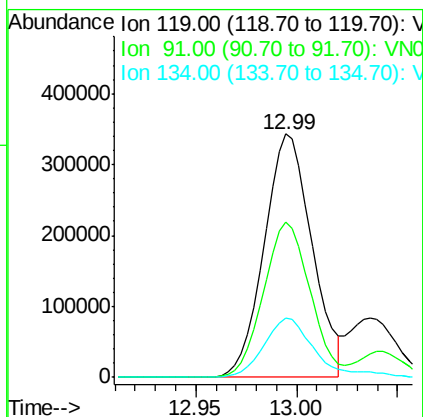
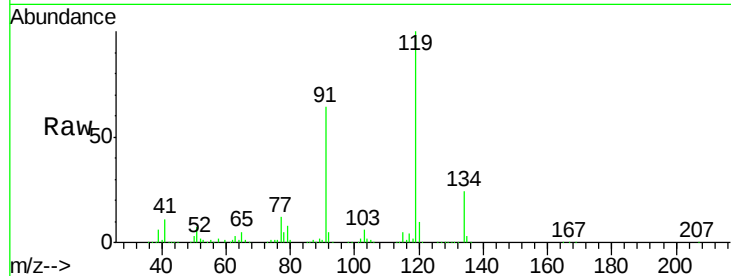
#83
 tert-Butylbenzene
 Concen: 22.623 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN057361.D
 Acq: 16 Aug 2019 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0818WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	565563		
91	62.2		31.3	93.8
134	26.2		13.1	39.1

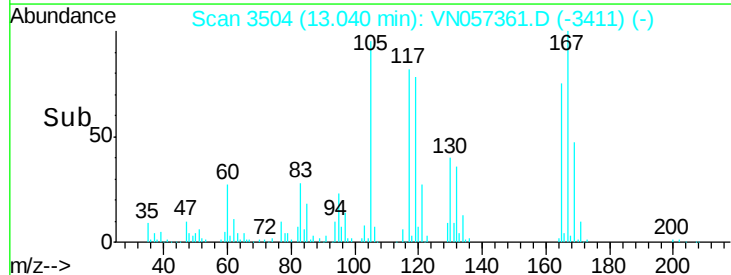
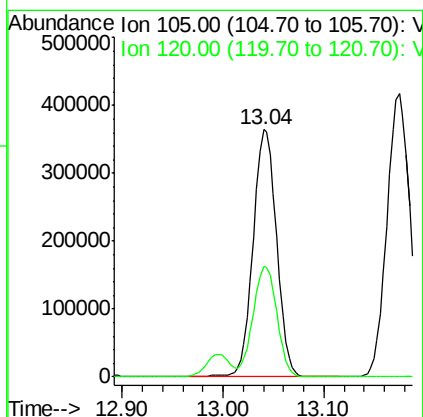
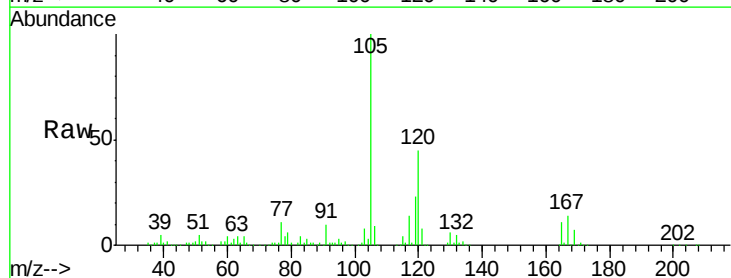
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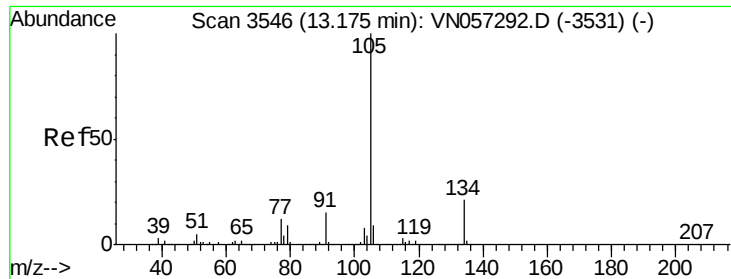
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 8/19/2019 12:19:23 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.596 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN057361.D
 Acq: 16 Aug 2019 18:22

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	584423		
120	45.4		22.6	67.7





#85

sec-Butylbenzene

Concen: 21.487 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

ClientSampleId :

VN0818WBS01

Tot Ion:105 Resp: 666100

Ion Ratio Lower Upper

105 100

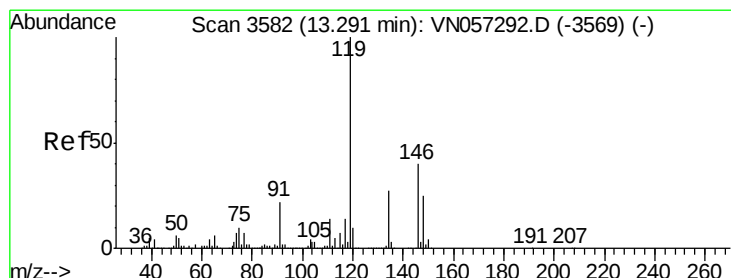
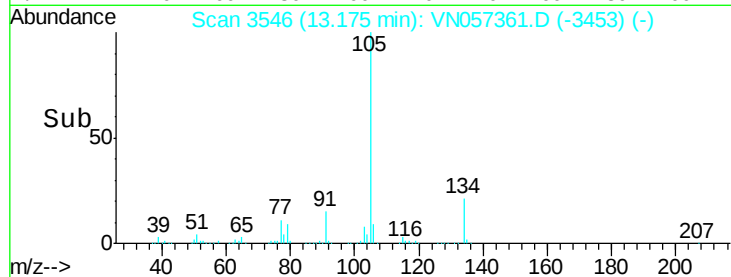
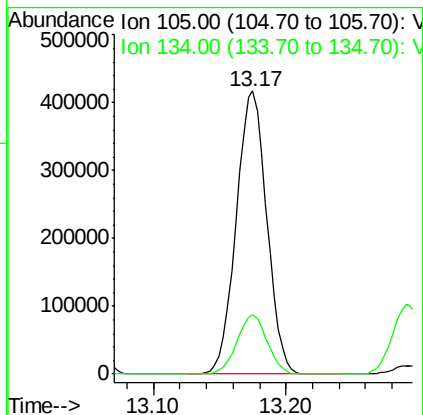
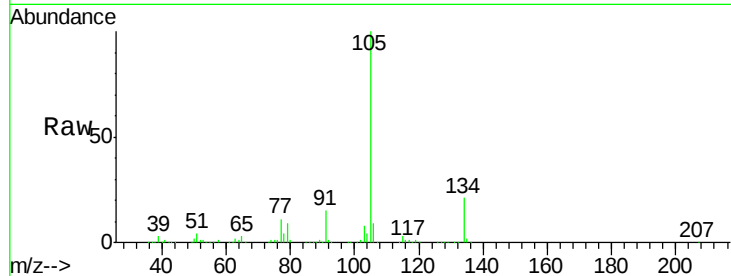
134 20.8 10.4 31.2

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#86

p-Isopropyltoluene

Concen: 20.245 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

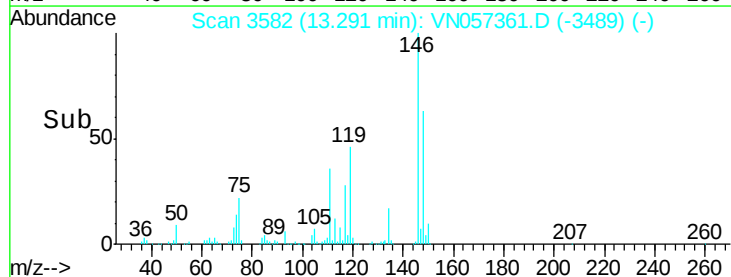
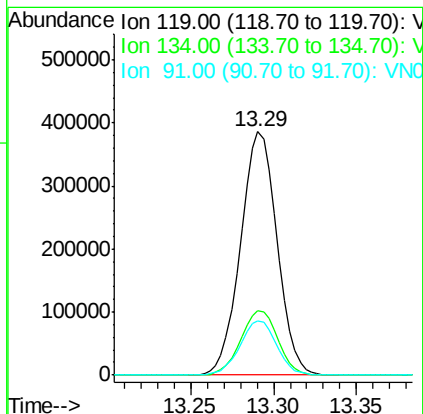
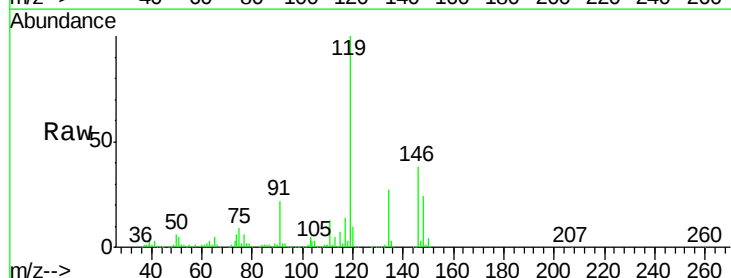
Tgt Ion:119 Resp: 588150

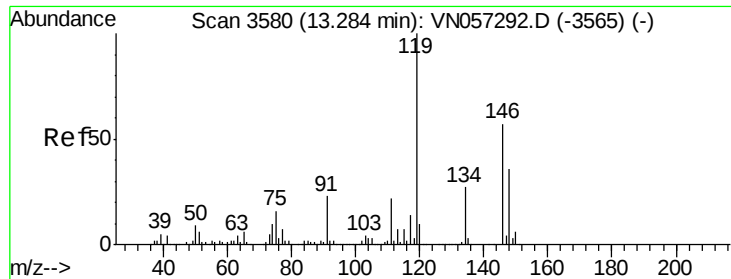
Ion Ratio Lower Upper

119 100

134 27.2 13.4 40.2

91 22.3 11.2 33.5





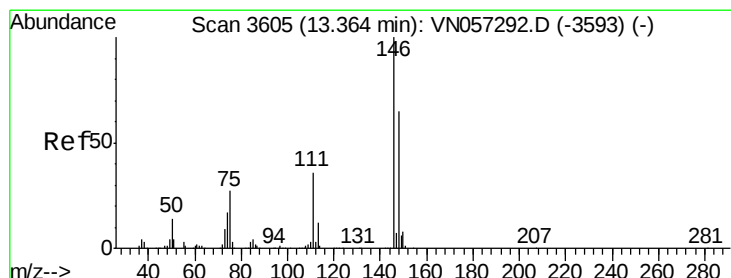
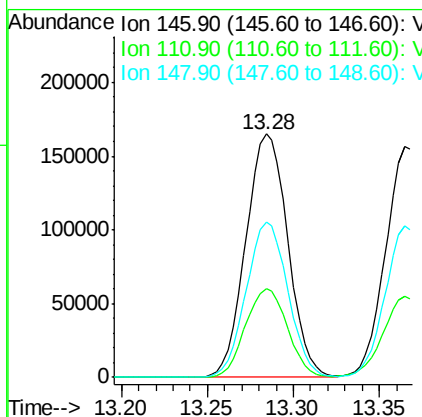
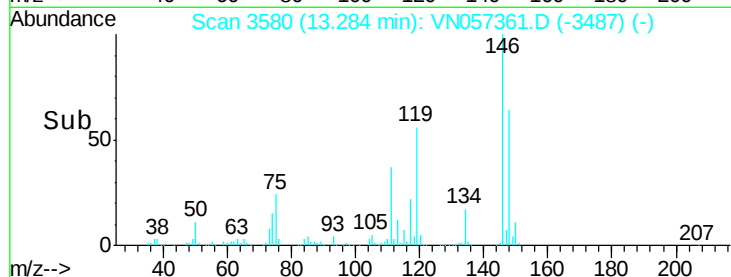
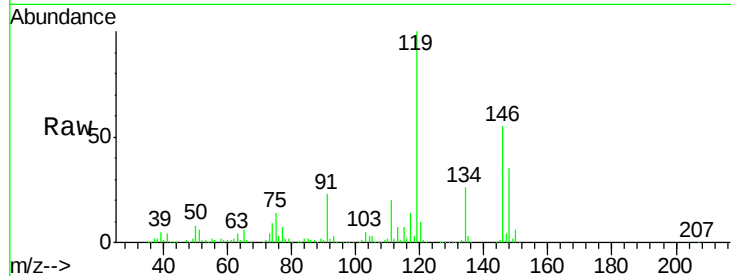
#87
 1,3-Dichlorobenzene
 Concen: 20.285 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN057361.D
 Acq: 16 Aug 2019 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0818WBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	279999		
111	36.4	18.7	56.1	
148	63.4	31.7	95.1	

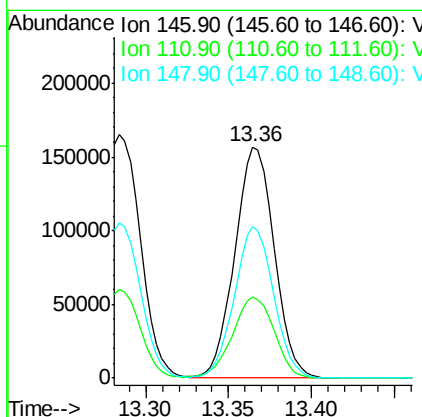
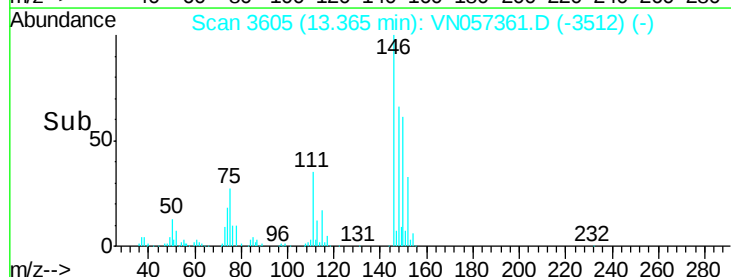
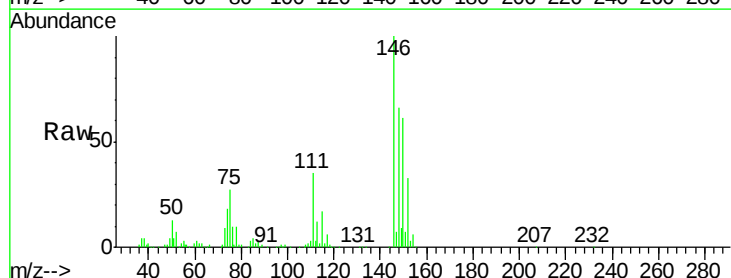
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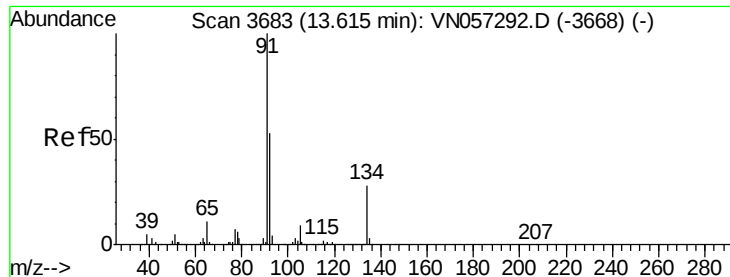
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#88
 1,4-Dichlorobenzene
 Concen: 19.778 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN057361.D
 Acq: 16 Aug 2019 18:22

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	259147		
111	37.3	18.4	55.4	
148	65.5	32.5	97.4	





#89

n-Butylbenzene

Concen: 21.487 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Instrument :

MSVOA_N

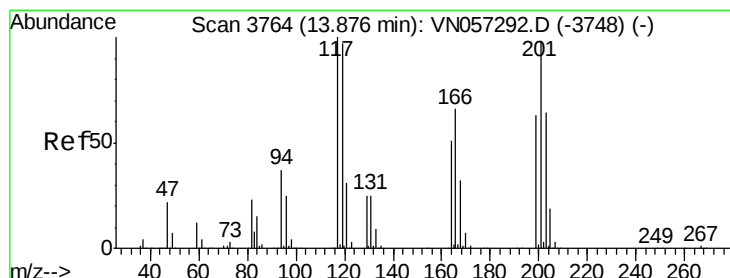
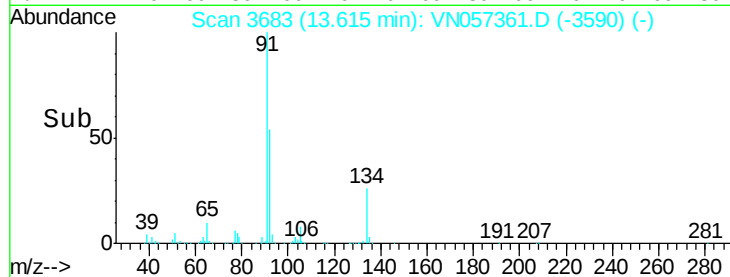
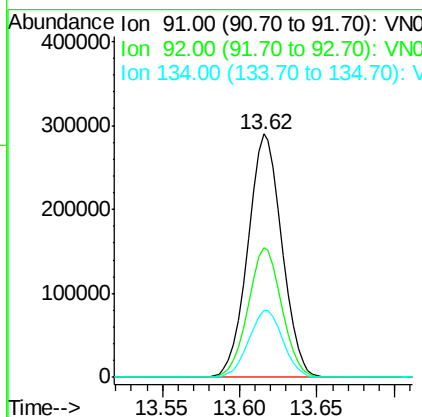
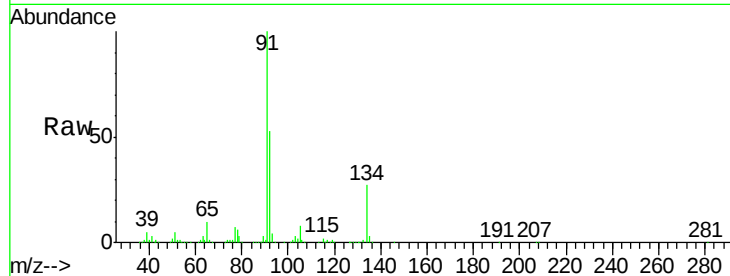
ClientSampleId :

VN0818WBS01

Tot Ion:	91	Resp:	445010
Ion Ratio	Lower	Upper	
91	100		
92	53.0	26.2	78.6
134	27.7	13.9	41.7

Manual Integrations
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#90

Hexachloroethane

Concen: 22.095 ug/l

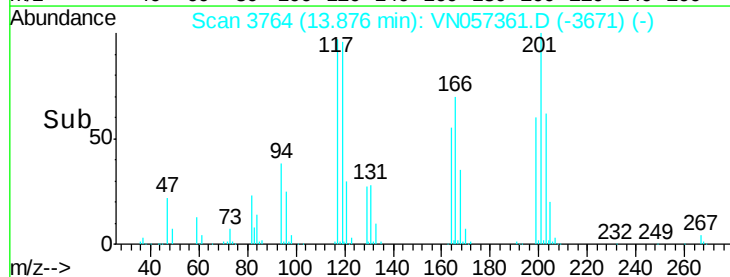
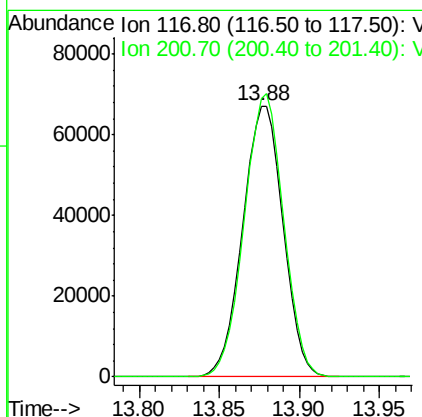
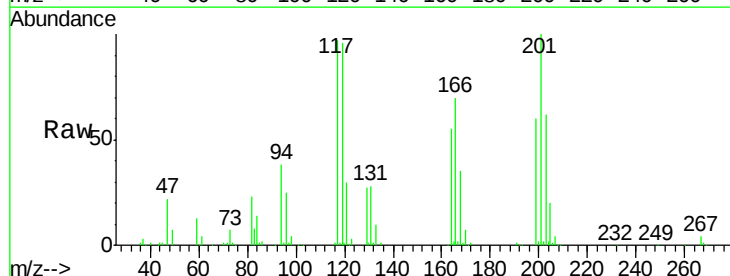
RT: 13.88 min Scan# 3764

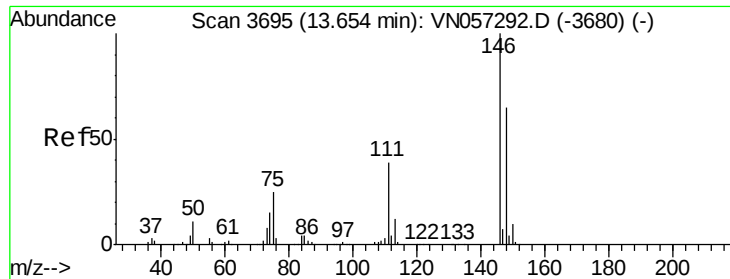
Delta R.T. 0.00 min

Lab File: VN057361.D

Acq: 16 Aug 2019 18:22

Tgt Ion:	117	Resp:	115596
Ion Ratio	Lower	Upper	
117	100		
201	101.7	48.4	145.0





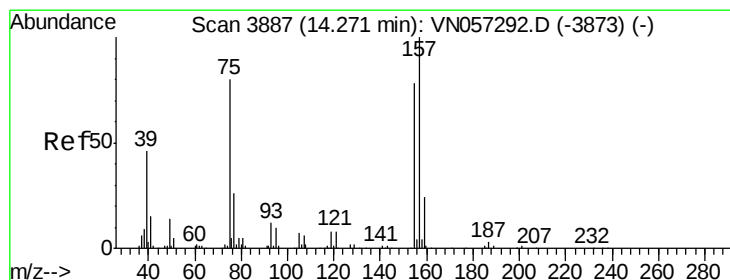
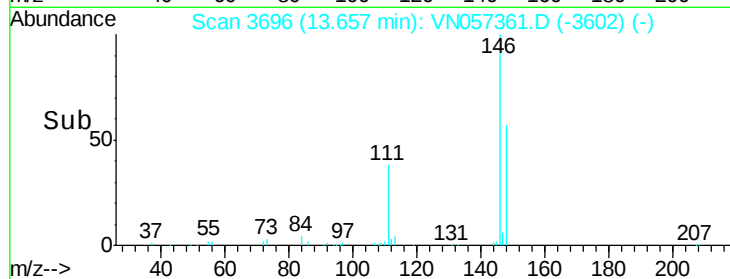
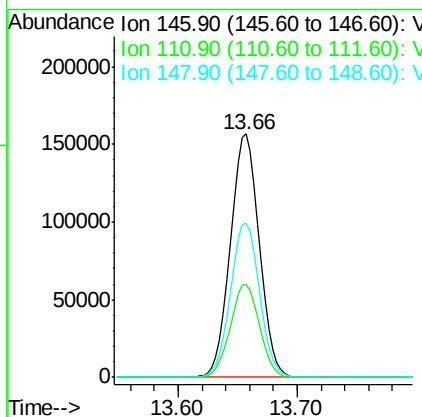
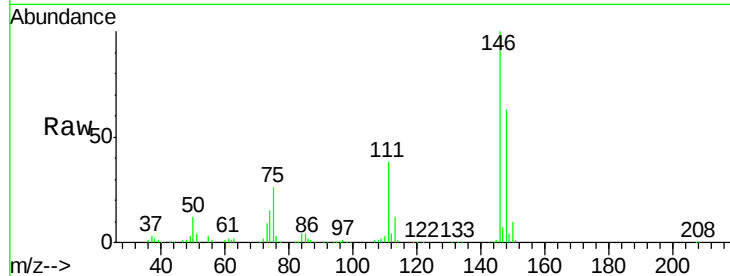
#91
 1,2-Dichlorobenzene
 Concen: 20.439 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN057361.D
 Acq: 16 Aug 2019 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0818WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.7	59.1
148	63.9	32.0	96.0

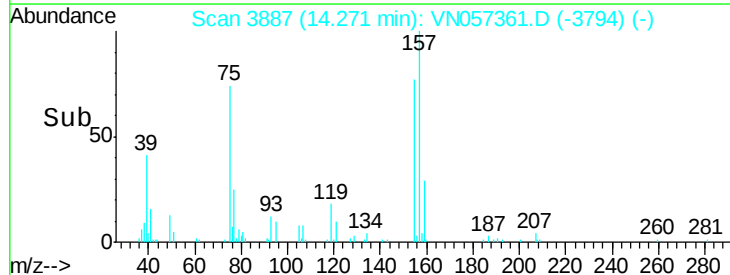
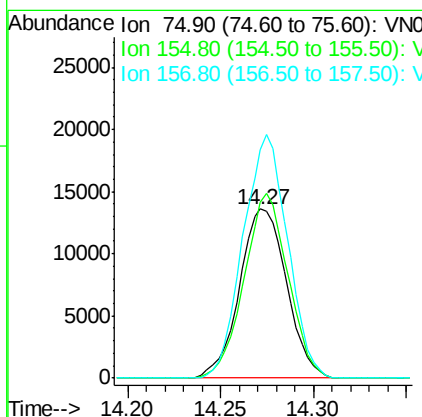
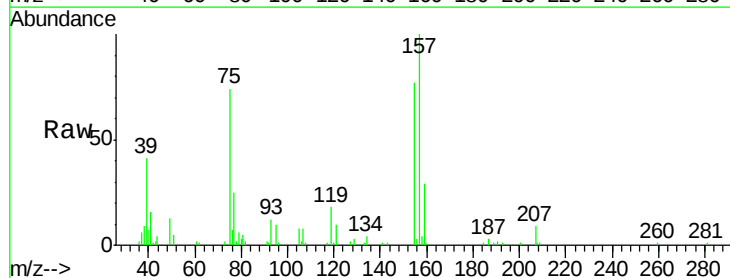
Manual Integrations
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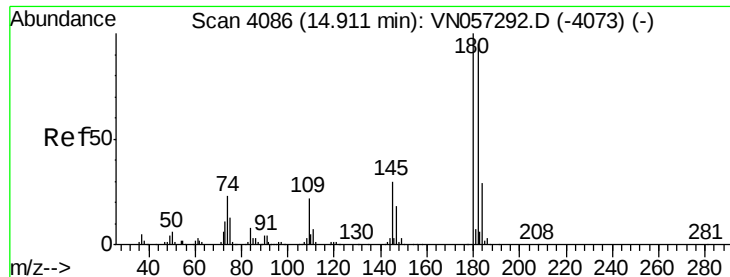
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.087 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN057361.D
 Acq: 16 Aug 2019 18:22

Tgt Ion	Ratio	Lower	Upper
75	100		
155	101.9	49.6	148.8
157	136.0	63.7	191.1





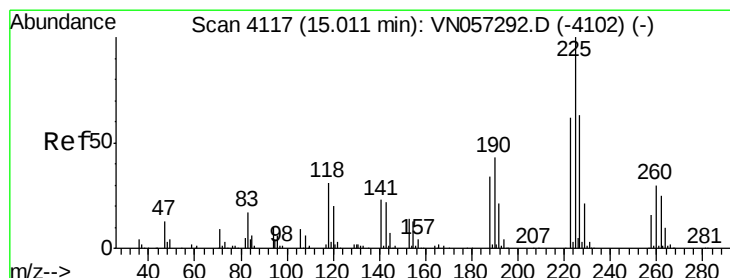
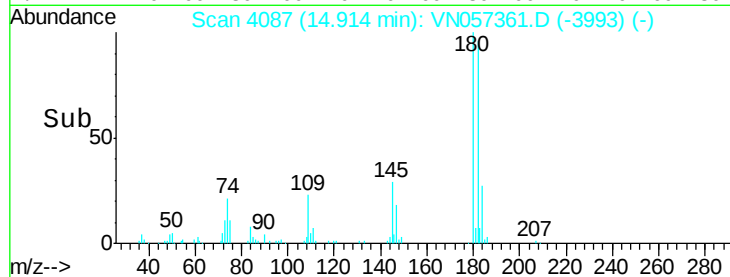
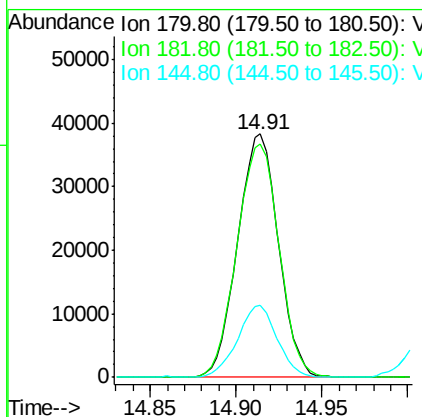
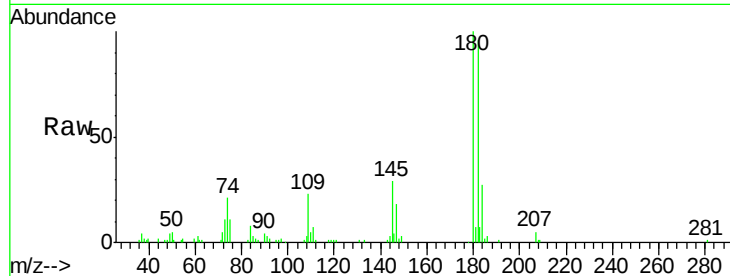
#93
 1,2,4-Trichlorobenzene
 Concen: 16.271 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN057361.D
 Acq: 16 Aug 2019 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0818WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	62903		
182	99.2	48.0	144.2	
145	28.7	14.5	43.6	

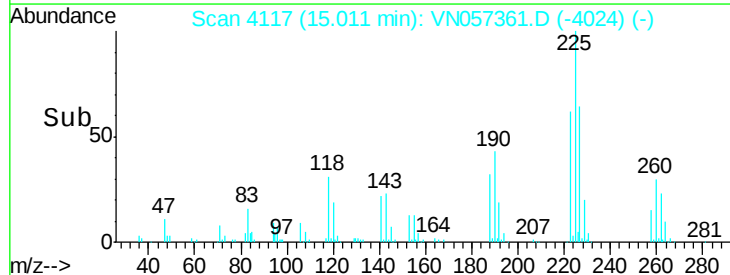
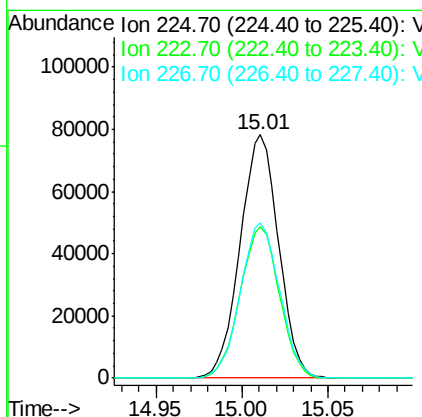
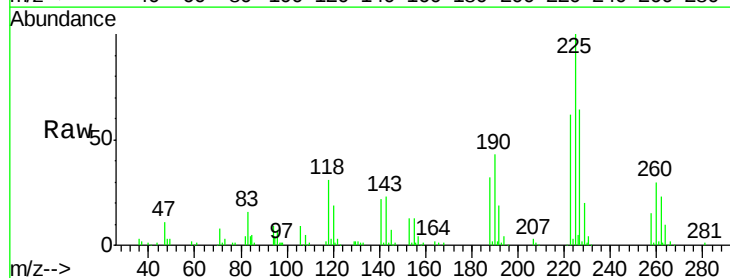
Manual Integrations
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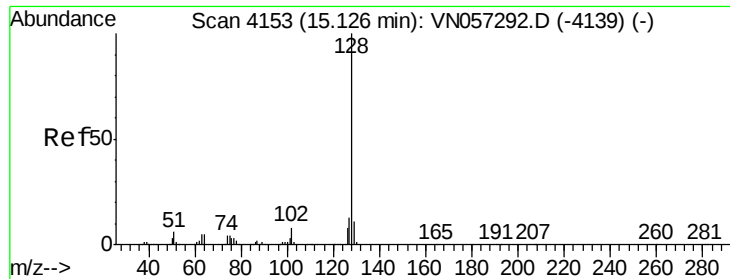
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#94
 Hexachlorobutadiene
 Concen: 22.158 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN057361.D
 Acq: 16 Aug 2019 18:22

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	121729		
223	63.3	30.7	92.1	
227	65.4	30.9	92.7	





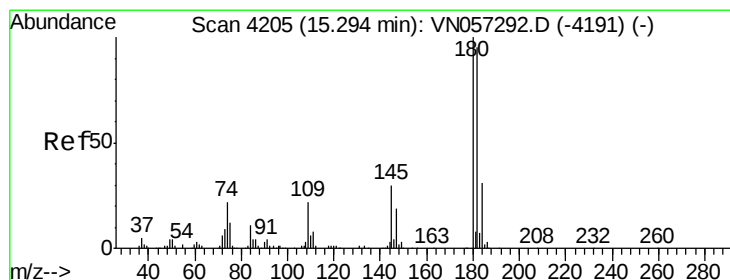
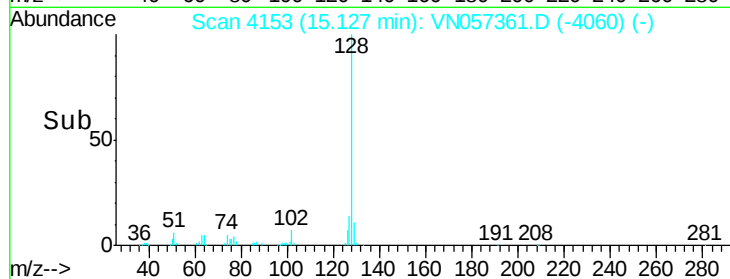
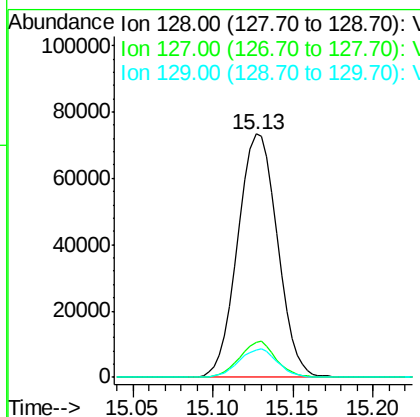
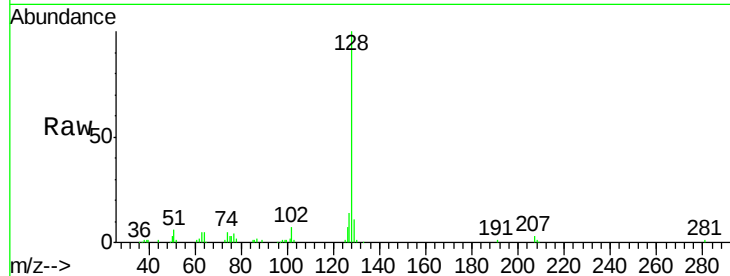
#95
Naphthalene
Concen: 19.565 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Instrument :
MSVOA_N
ClientSampleId :
VN0818WBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	124512		
127	13.5		10.5	15.7
129	11.3		8.8	13.2

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 19.401 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. 0.00 min
Lab File: VN057361.D
Acq: 16 Aug 2019 18:22

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	61015		
182	97.9		47.9	143.6
145	29.4		15.1	45.3

