

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081219\
 Data File : VN057206.D
 Acq On : 12 Aug 2019 10:58
 Operator : JC/SP
 Sample : VN0812WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0812WBS01

Manual Integrations
 APPROVED

MMDadoda
 8/14/2019 9:23:32 AM

Quant Time: Aug 13 02:00:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sun Aug 11 03:53:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.59	128	160402	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.01	114	869943	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.91	117	755440	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.44	65	311920	29.83	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.43%
60) 4-Bromofluorobenzene	11.92	95	317555	28.23	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.10%
63) Toluene-d8	9.56	98	1060936	30.42	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.82	85	186114	21.272	ug/l 99
3) Chloromethane	2.00	50	203522	20.082	ug/l 100
4) Vinyl Chloride	2.11	62	202341	19.625	ug/l 98
5) Bromomethane	2.44	94	147215	20.044	ug/l 99
6) Chloroethane	2.55	64	134572	20.128	ug/l 95
7) Trichlorofluoromethane	2.83	101	314052	20.428	ug/l 98
8) Diethyl Ether	3.14	74	113058	19.731	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.44	101	189232	20.349	ug/l 99
10) 1,1-Dichloroethene	3.44	96	180990	19.685	ug/l 99
11) Methyl Iodide	3.63	142	281081	19.592	ug/l 99
12) Methyl Acetate	3.89	43	195415	20.403	ug/l 96
13) Acrolein	3.31	56	97493	92.299	ug/l 100
14) Acrylonitrile	4.45	53	396185	99.145	ug/l 99
15) Acetone	3.48	58	113612	85.667	ug/l 80
16) Carbon Disulfide	3.72	76	473884	19.105	ug/l 99
17) Allyl chloride	3.91	41	273256	20.159	ug/l 97
18) Methylene Chloride	4.10	84	205276	19.693	ug/l 99
19) trans-1,2-Dichloroethene	4.51	96	194389	19.721	ug/l 100
20) Diisopropyl ether	5.32	45	561182	20.300	ug/l 95
21) 1,1-Dichloroethane	5.25	63	347535	20.185	ug/l 99
22) cis-1,2-Dichloroethene	6.21	96	225209	20.074	ug/l 100
23) tert-Butyl Alcohol	4.23	59	120078	91.063	ug/l # 100
24) Methyl tert-Butyl Ether	4.49	73	544312	20.132	ug/l 100
25) Chloroform	6.76	83	353346	19.958	ug/l 96
26) Cyclohexane	7.07	56	289546	19.672	ug/l # 96
29) 1,1-Dichloropropene	7.20	75	259921	19.868	ug/l 100
30) 2-Butanone	6.20	43	488564	94.856	ug/l # 97
31) 2,2-Dichloropropane	6.21	77	277806	19.861	ug/l # 77
32) 1,1,1-Trichloroethane	6.98	97	306094	20.203	ug/l 99
33) Carbon Tetrachloride	7.18	117	270413	20.050	ug/l 96
34) Benzene	7.46	78	808593	20.248	ug/l 98
35) Methacrylonitrile	6.54	41	109486	21.033	ug/l 92
36) 1,2-Dichloroethane	7.54	62	258385	20.253	ug/l 99
37) Trichloroethene	8.27	130	230305	20.295	ug/l 98
38) Methylcyclohexane	8.52	83	316843	20.295	ug/l 98
39) 1,2-Dichloropropane	8.56	63	209089	20.313	ug/l 96
40) Dibromomethane	8.65	93	136379	20.580	ug/l 100

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Manual Integrations
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MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	8.85	83	265012	20.112	ug/l	100
42) Vinyl Acetate	5.27	43	2181813	101.896	ug/l	100
43) Ethyl Acetate	6.29	43	178516	18.793	ug/l	95
44) Isopropyl Acetate	7.56	43	374887	21.736	ug/l	100
45) 1,4-Dioxane	8.64	88	61946	384.872	ug/l	97
46) Methyl methacrylate	8.64	41	159185	20.243	ug/l	99
47) n-amyl Acetate	11.59	43	236216	18.616	ug/l	99
48) t-1,3-Dichloropropene	9.86	75	282370	20.097	ug/l	99
49) cis-1,3-Dichloropropene	9.30	75	322975	20.278	ug/l	96
50) 1,1,2-Trichloroethane	10.04	97	197551	20.858	ug/l	97
51) Ethyl methacrylate	9.90	69	272118	20.359	ug/l	95
52) 1,3-Dichloropropane	10.19	76	322207	20.410	ug/l	97
53) Dibromochloromethane	10.39	129	217797	20.408	ug/l	98
54) 1,2-Dibromoethane	10.50	107	205538	20.789	ug/l	97
55) 2-Chloroethyl vinyl ether	9.15	63	327270	86.719	ug/l	100
56) Bromoform	11.64	173	154529	19.594	ug/l	99
58) 4-Methyl-2-Pentanone	9.44	43	1007807	103.847	ug/l	99
59) 2-Hexanone	10.24	43	681520	97.679	ug/l	98
61) Tetrachloroethene	10.11	164	239427	20.650	ug/l	98
62) Toluene	9.63	91	871700	20.272	ug/l	100
64) Chlorobenzene	10.93	112	534587	20.213	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.01	131	204574	20.171	ug/l	99
66) Ethyl Benzene	11.01	91	929014	20.155	ug/l	98
67) m/p-Xylenes	11.13	106	697023	40.100	ug/l	99
68) o-Xylene	11.46	106	338716	20.071	ug/l	100
69) Styrene	11.47	104	528549	19.532	ug/l	100
70) Isopropylbenzene	11.77	105	906733	19.957	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.02	83	255109	20.501	ug/l	99
72) 1,2,3-Trichloropropane	12.08	75	225950m	20.746	ug/l	
73) Bromobenzene	12.05	156	228786	19.419	ug/l	98
74) n-propylbenzene	12.11	91	902387	18.919	ug/l	99
75) 2-Chlorotoluene	12.20	91	579705	19.650	ug/l	99
76) 1,3,5-Trimethylbenzene	12.26	105	755302	19.743	ug/l	87
77) t-1,4-Dichloro-2-butene	11.82	75	69886	19.067	ug/l	95
78) 4-Chlorotoluene	12.30	91	507733	18.531	ug/l	100
79) tert-butylbenzene	12.52	119	673092	19.962	ug/l	99
80) 1,2,4-Trimethylbenzene	12.57	105	700248	19.409	ug/l	99
81) sec-Butylbenzene	12.70	105	809772	19.047	ug/l	99
82) p-Isopropyltoluene	12.82	119	697744	18.431	ug/l	100
83) 1,3-Dichlorobenzene	12.81	146	322828	17.996	ug/l	98
84) 1,4-Dichlorobenzene	12.90	146	292871	17.551	ug/l	99
85) n-Butylbenzene	13.15	91	496074	18.123	ug/l	98
86) Hexachloroethane	13.41	117	132630	19.268	ug/l	98
87) 1,2-Dichlorobenzene	13.19	146	330017	18.550	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.81	75	32845	18.812	ug/l	87
89) 1,2,4-Trichlorobenzene	14.45	180	83930	16.892	ug/l	99
90) Hexachlorobutadiene	14.55	225	145743	19.002	ug/l	98
91) Naphthalene	14.67	128	155194	11.492	ug/l	99
92) 1,2,3-Trichlorobenzene	14.84	180	90187	17.836	ug/l	97

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ClientSampleId :
VN0812WBS01

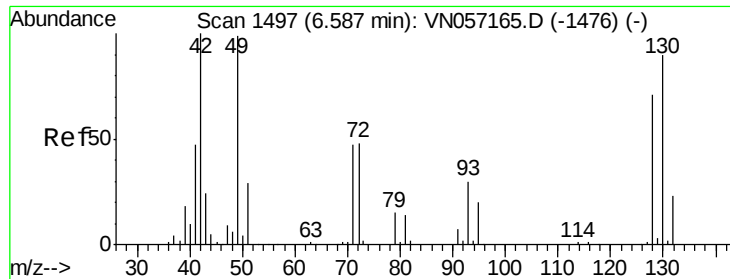
Manual Integrations
APPROVED

MMDadoda
8/14/2019 9:23:32 AM

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QLast Update : Sun Aug 11 03:53:25 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 6.59 min Scan# 1497

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

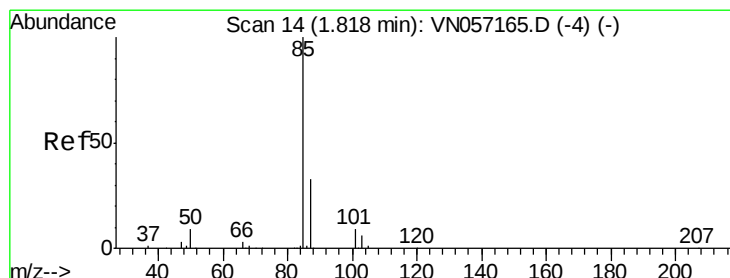
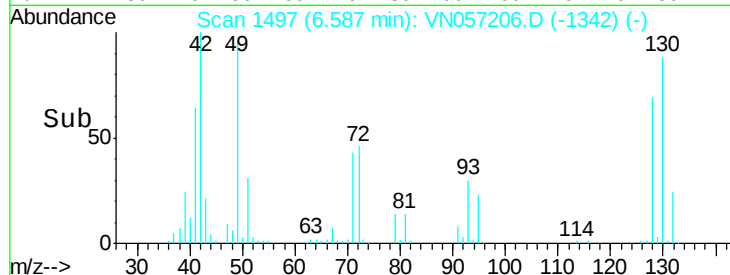
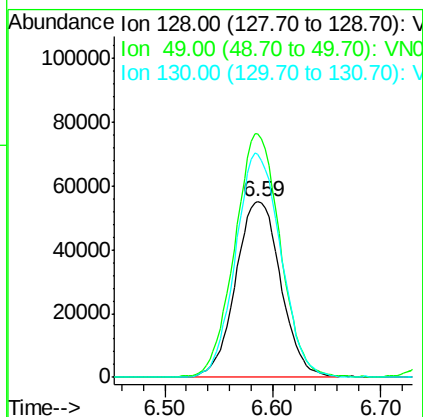
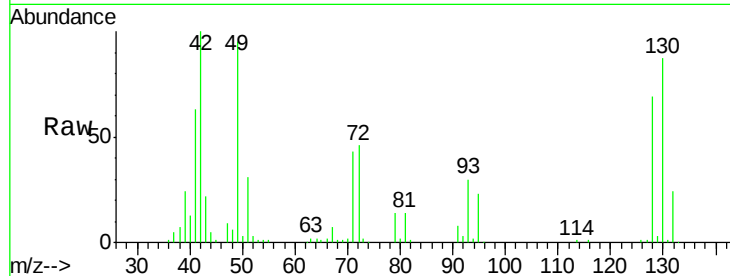
ClientSampleId :

VN0812WBS01

Tot Ion:	128	Resp:	160402
Ion Ratio	Lower	Upper	
128	100		
49	139.6	0.0	361.0
130	128.0	0.0	329.5

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 21.272 ug/l

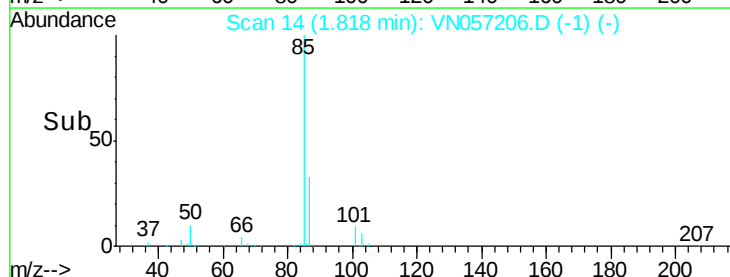
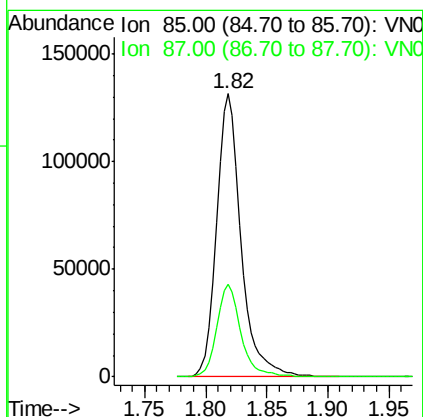
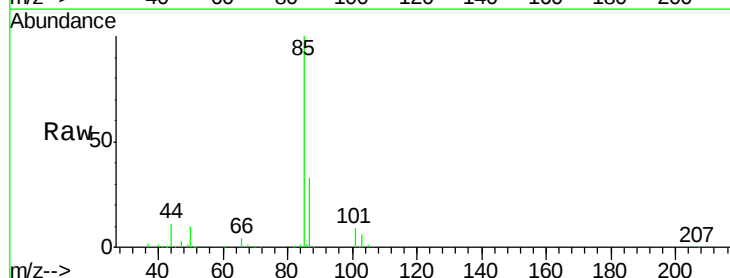
RT: 1.82 min Scan# 14

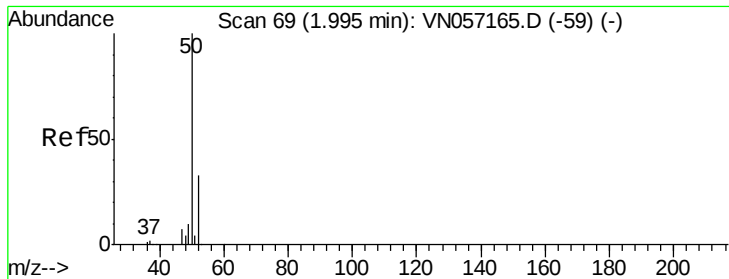
Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Tgt Ion:	85	Resp:	186114
Ion Ratio	Lower	Upper	
85	100		
87	32.6	16.5	49.5





#3

Chloromethane

Concen: 20.082 ug/l

RT: 2.00 min Scan# 70

Delta R.T. 0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

ClientSampleId :

VN0812WBS01

Tot Ion: 50 Resp: 203522

Ion Ratio Lower Upper

50 100

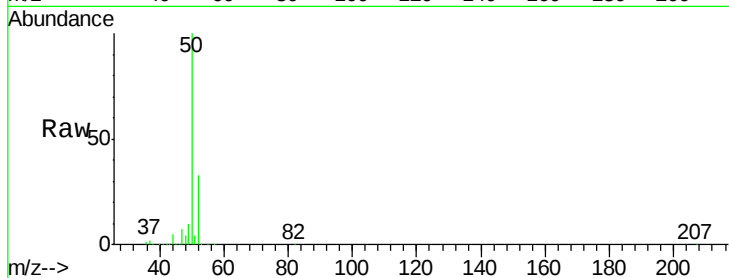
52 32.9 26.5 39.7

Manual Integrations

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Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

2.00

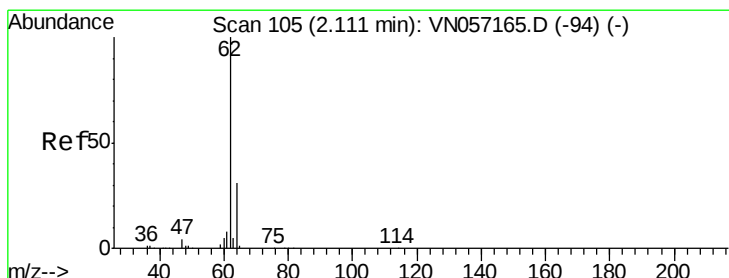
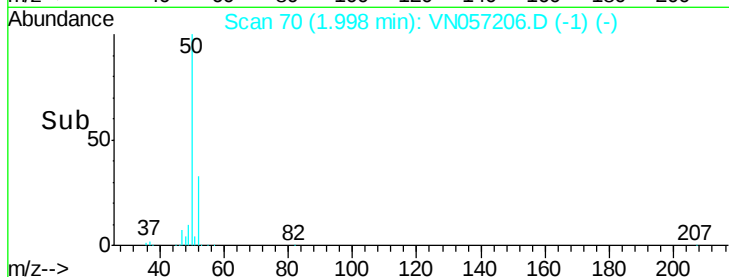
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 19.625 ug/l

RT: 2.11 min Scan# 105

Delta R.T. -0.00 min

Lab File: VN057206.D

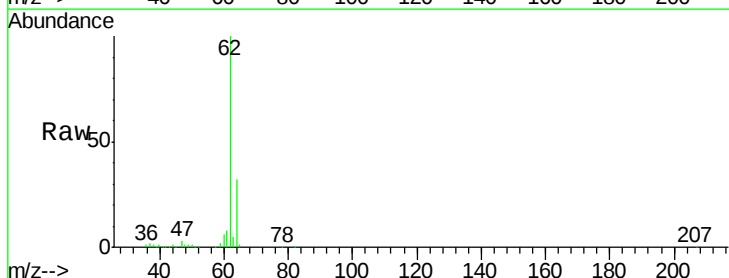
Acq: 12 Aug 2019 10:58

Tgt Ion: 62 Resp: 202341

Ion Ratio Lower Upper

62 100

64 32.2 25.0 37.4



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0

2.11

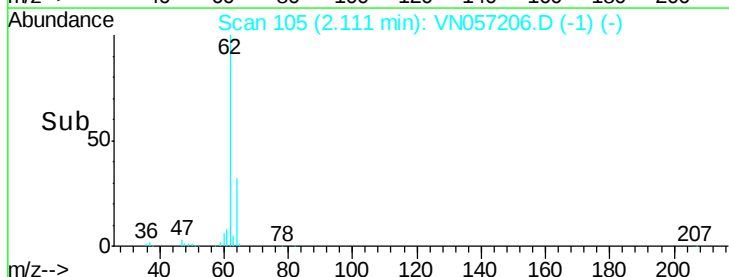
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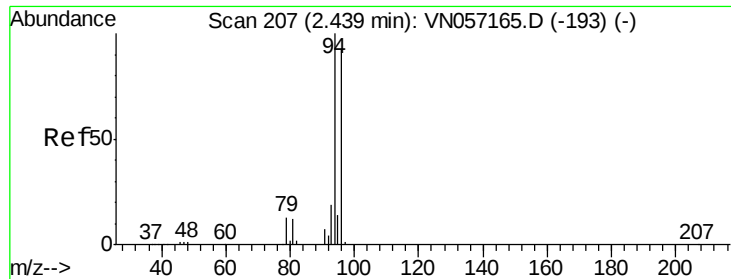
100000

50000

0

Time-->





#5

Bromomethane

Concen: 20.044 ug/l

RT: 2.44 min Scan# 206

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

ClientSampleId :

VN0812WBS01

Tot Ion: 94 Resp: 147215

Ion Ratio Lower Upper

94 100

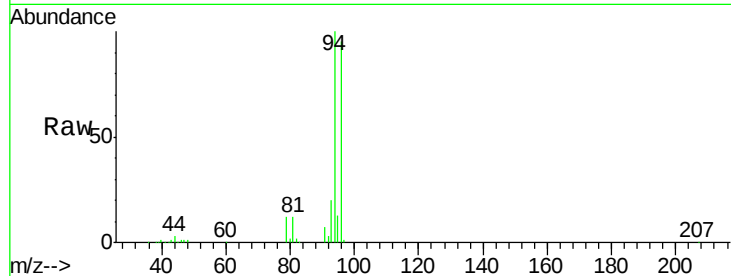
96 94.6 74.7 112.1

Manual Integrations

APPROVED

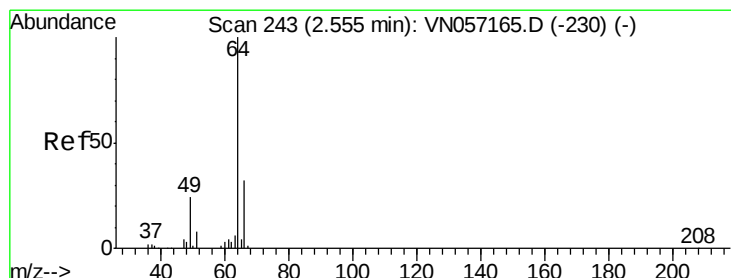
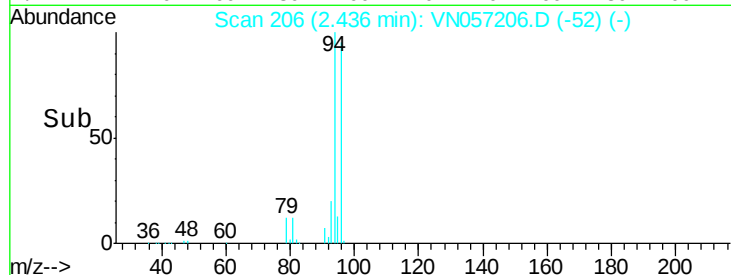
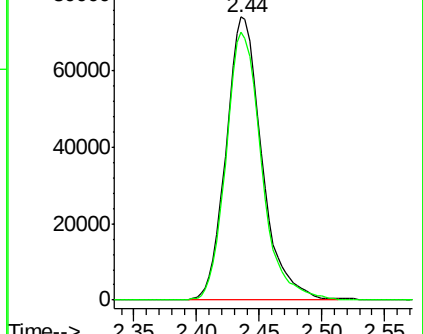
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8/14/2019 9:23:32 AM



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 20.128 ug/l

RT: 2.55 min Scan# 243

Delta R.T. -0.00 min

Lab File: VN057206.D

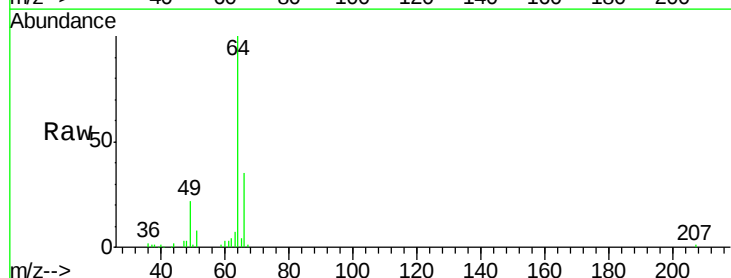
Acq: 12 Aug 2019 10:58

Tgt Ion: 64 Resp: 134572

Ion Ratio Lower Upper

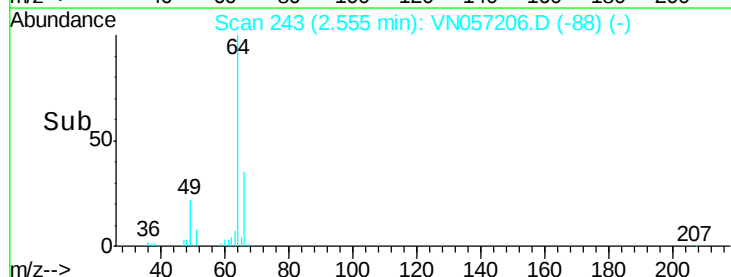
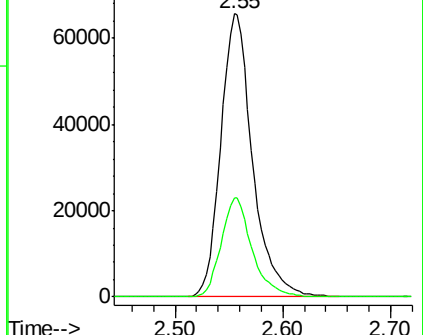
64 100

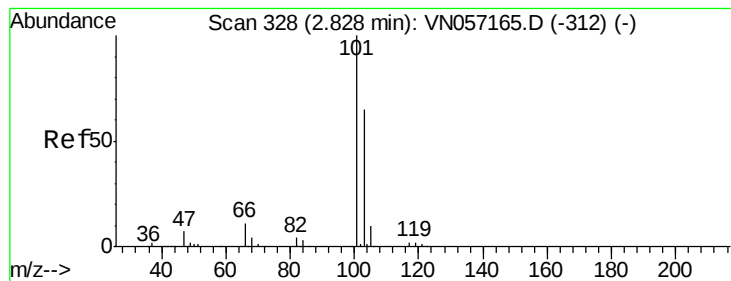
66 35.1 25.8 38.6



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

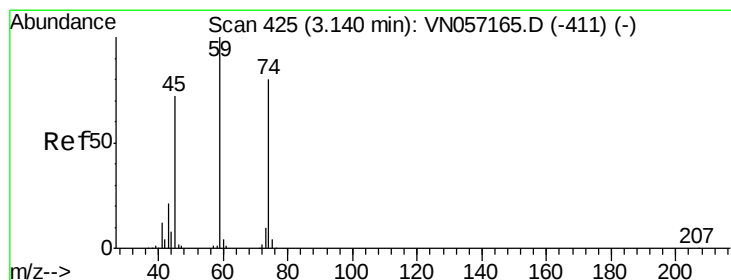
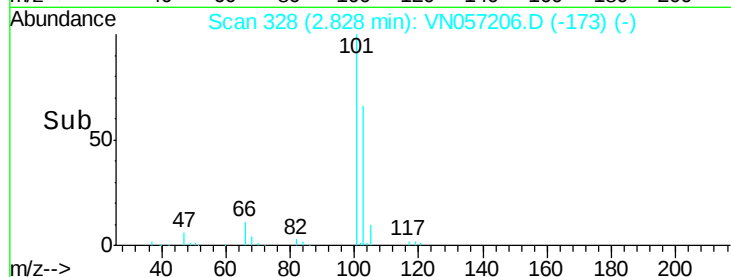
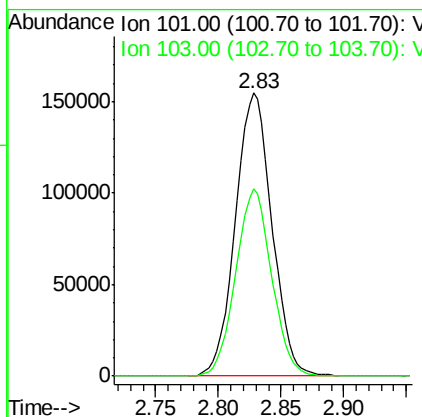
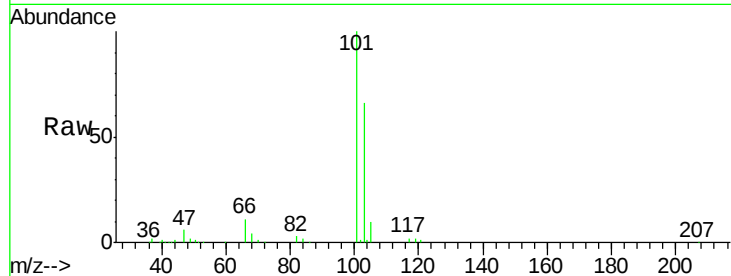
Trichlorofluoromethane
 Concen: 20.428 ug/l
 RT: 2.83 min Scan# 328
 Delta R.T. -0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0812WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.1	51.8	77.8

Manual Integrations
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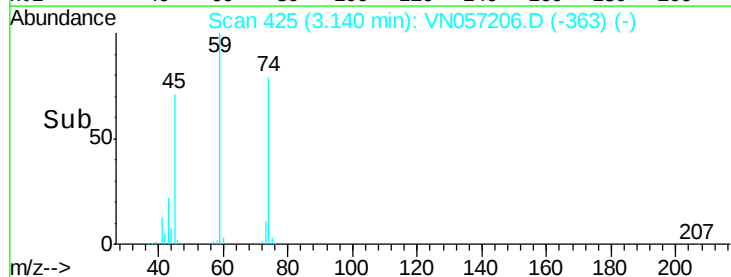
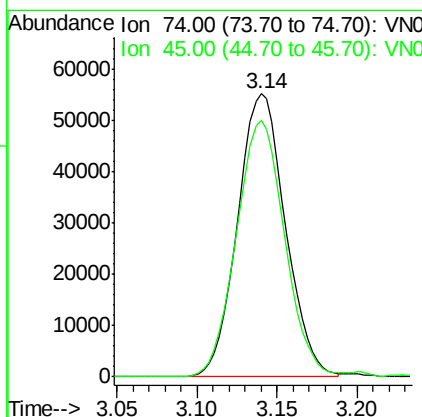
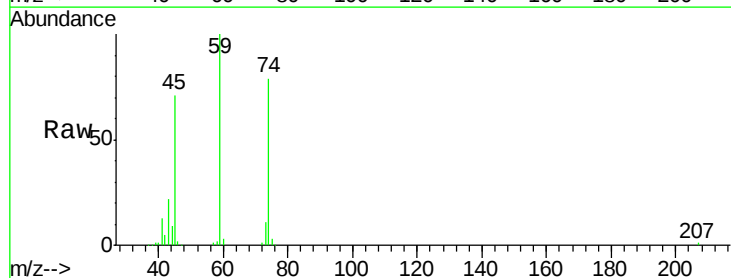
MMDadoda
 8/14/2019 9:23:32 AM

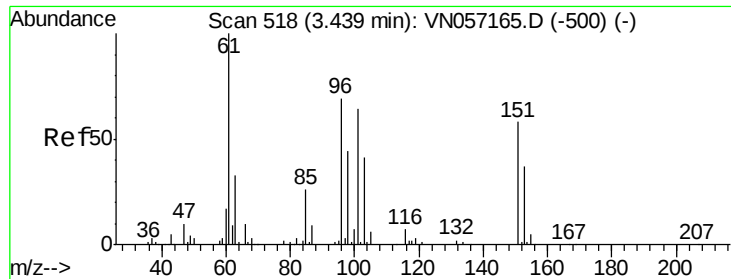


#8

Diethyl Ether
 Concen: 19.731 ug/l
 RT: 3.14 min Scan# 425
 Delta R.T. -0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
74	100		
45	91.6	17.9	161.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.349 ug/l

RT: 3.44 min Scan# 519

Delta R.T. 0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

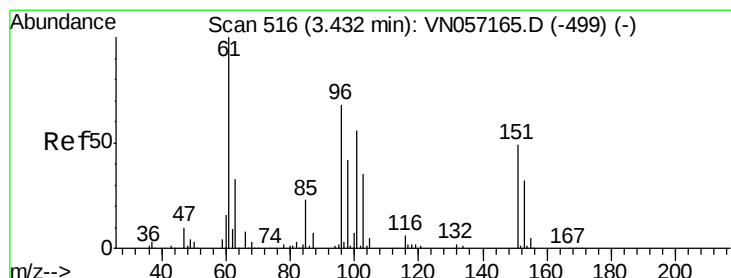
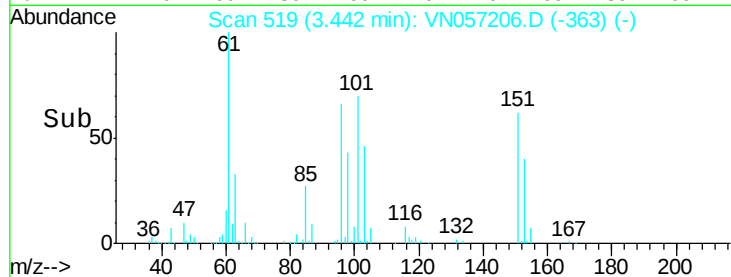
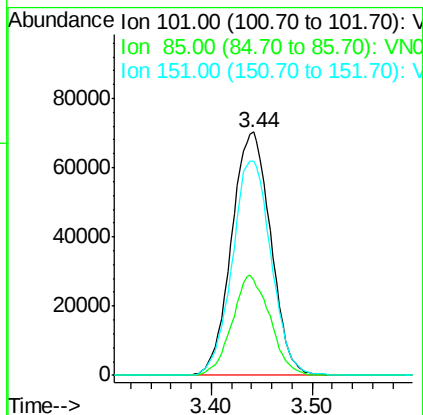
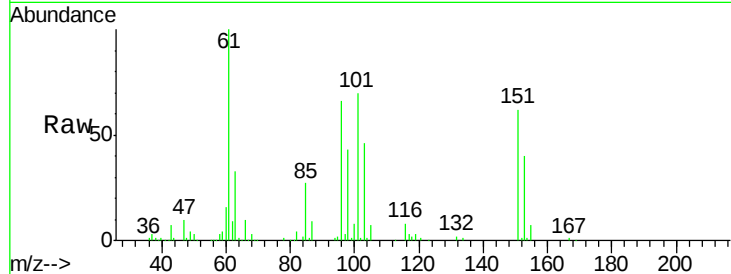
ClientSampleId :

VN0812WBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	189232		
85	39.4	0.0	84.4	
151	87.6	0.0	175.0	

Manual Integrations
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MMDadoda
8/14/2019 9:23:32 AM



#10

1,1-Dichloroethene

Concen: 19.685 ug/l

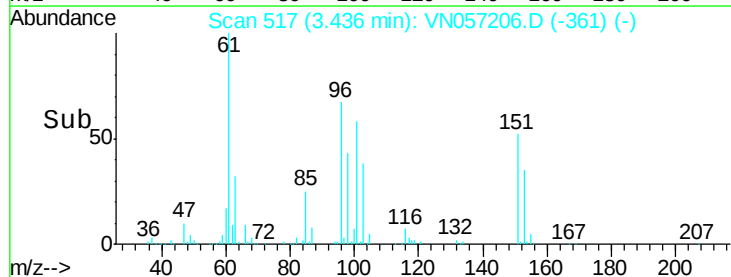
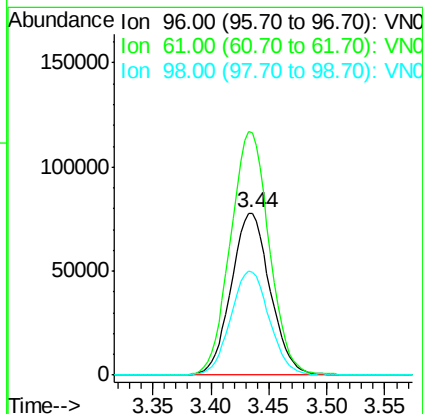
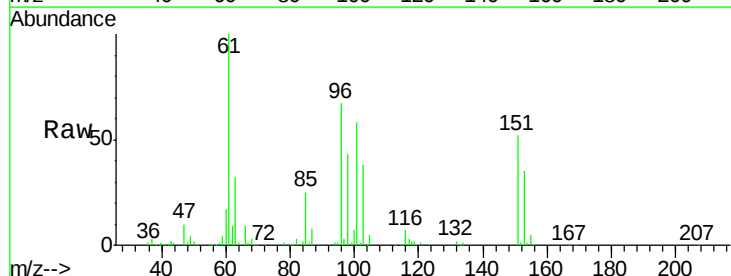
RT: 3.44 min Scan# 517

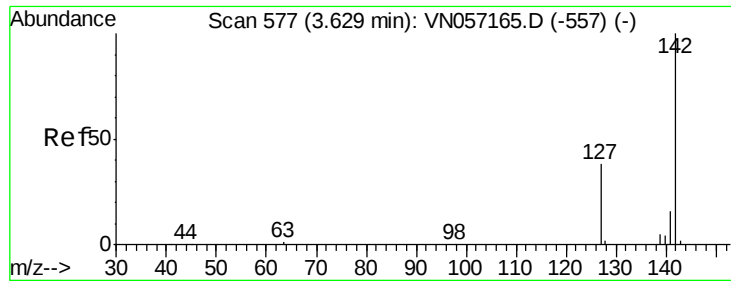
Delta R.T. 0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	180990		
61	148.9	118.2	177.2	
98	63.6	49.3	73.9	





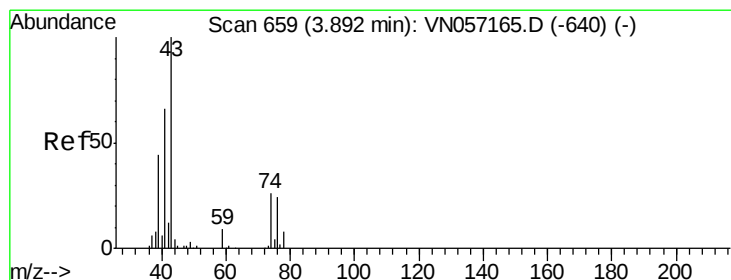
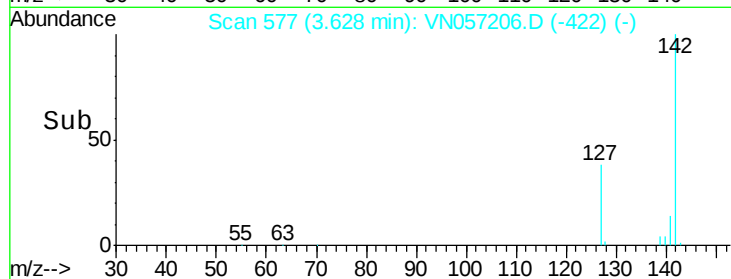
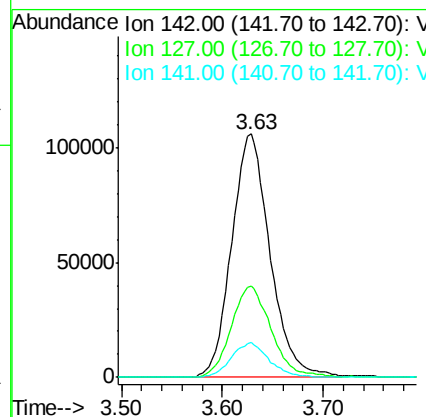
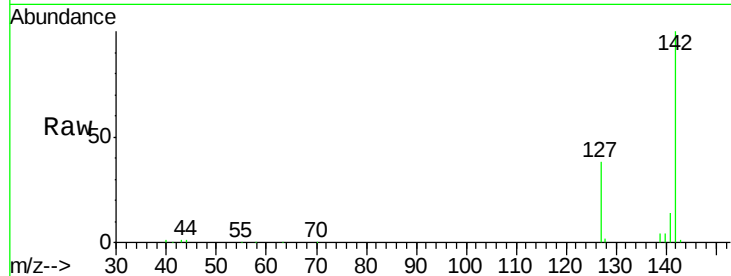
#11
Methvl Iodide
Concen: 19.592 ug/l
RT: 3.63 min Scan# 577
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Tot Ion	Ratio	Lower	Upper
142	100		
127	37.7	19.0	57.0
141	14.3	7.8	23.5

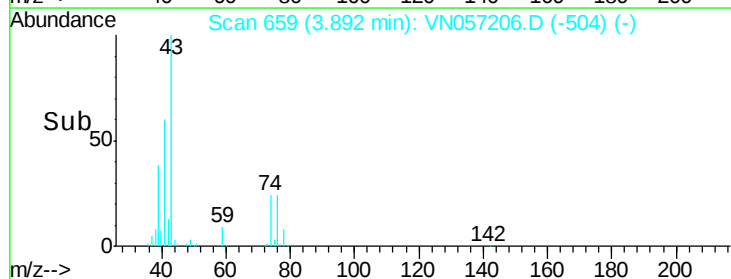
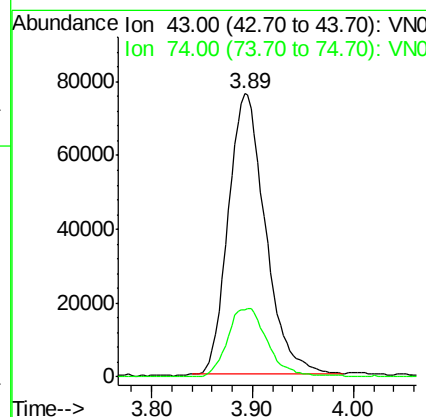
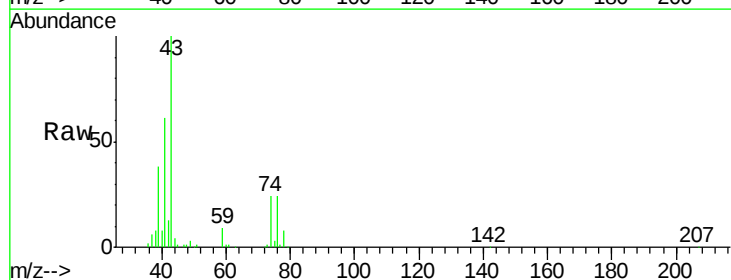
Manual Integrations
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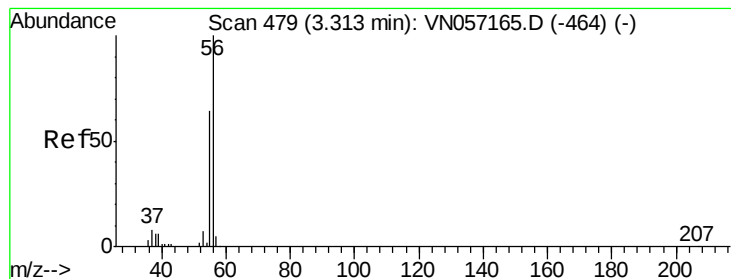
MMDadoda
8/14/2019 9:23:32 AM



#12
Methyl Acetate
Concen: 20.403 ug/l
RT: 3.89 min Scan# 659
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.8	20.5	30.7





#13

Acrolein

Concen: 92.299 ug/l

RT: 3.31 min Scan# 478

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

ClientSampleId :

VN0812WBS01

Tot Ion: 56 Resp: 97493

Ion Ratio Lower Upper

56 100

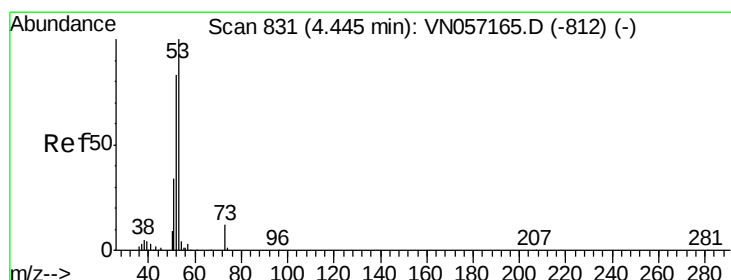
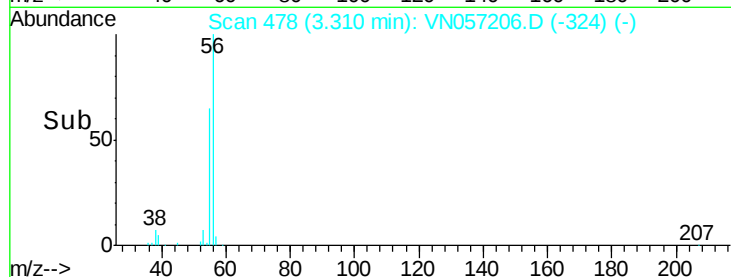
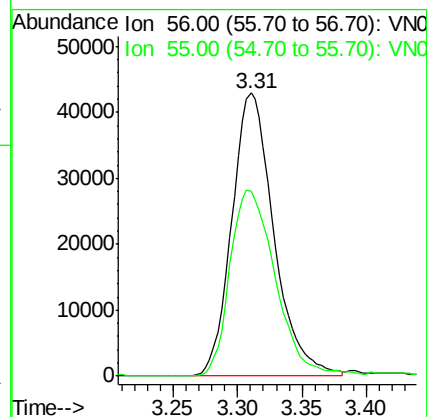
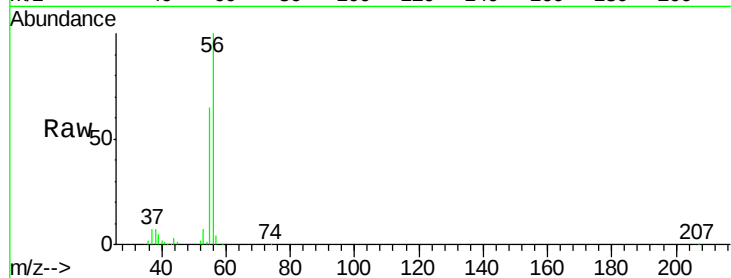
55 71.0 56.5 84.7

Manual Integrations

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MMDadoda

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#14

Acrylonitrile

Concen: 99.145 ug/l

RT: 4.45 min Scan# 831

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

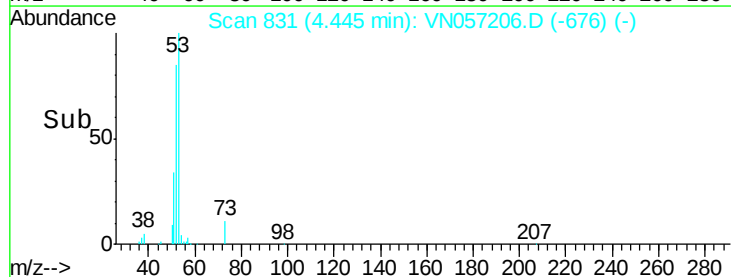
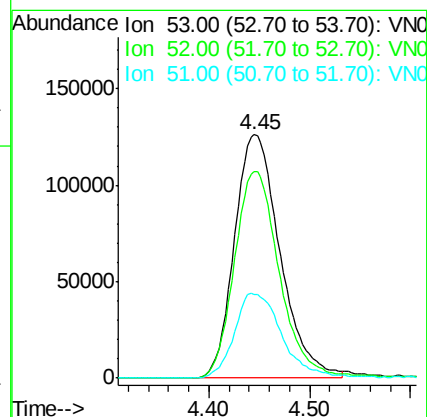
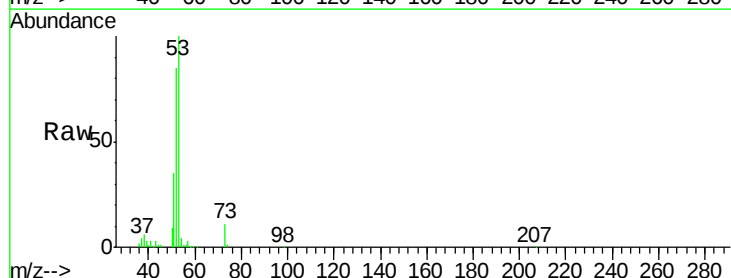
Tgt Ion: 53 Resp: 396185

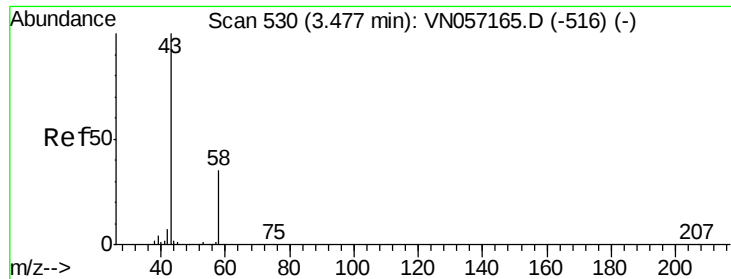
Ion Ratio Lower Upper

53 100

52 83.2 41.1 123.4

51 36.2 17.4 52.3





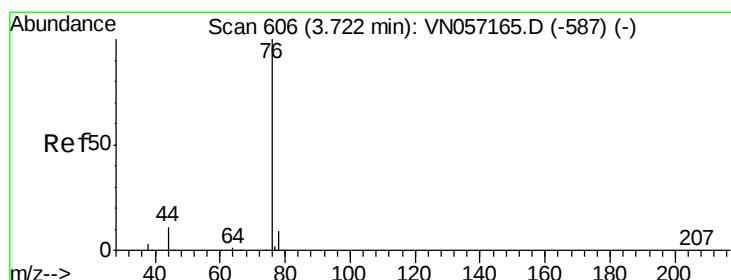
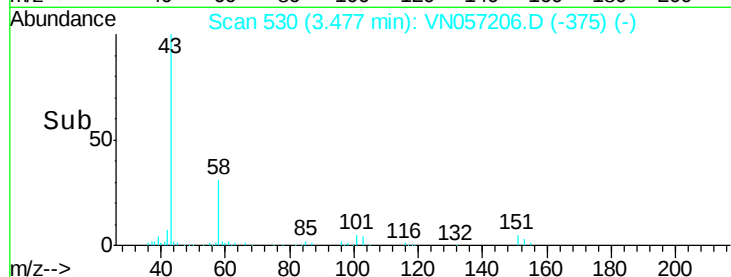
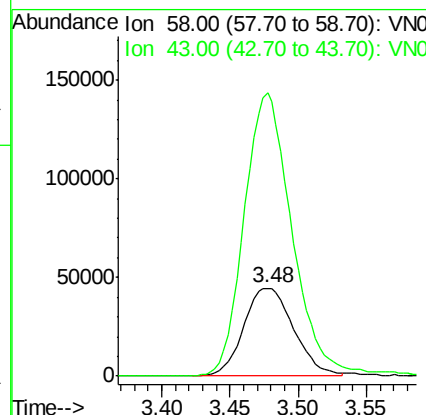
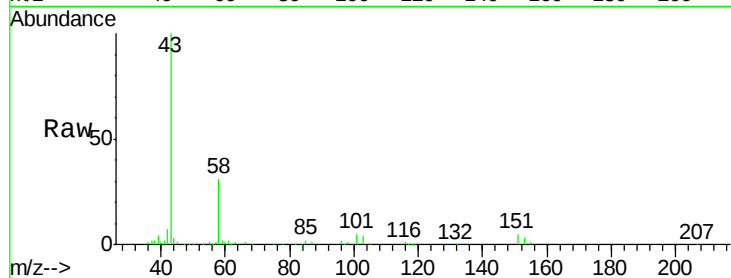
#15
Acetone
Concen: 85.667 ug/l
RT: 3.48 min Scan# 530
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Tot Ion	58	Resp	113612
Ion Ratio	Lower	Upper	
58	100		
43	320.6	226.2	339.2

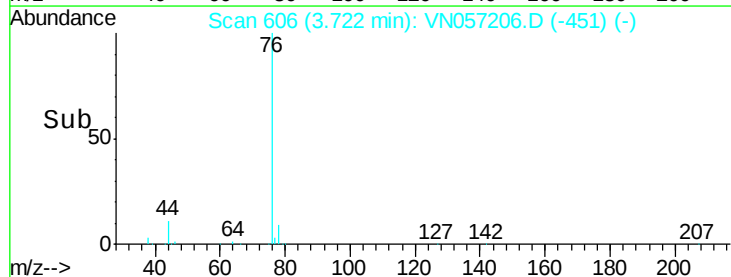
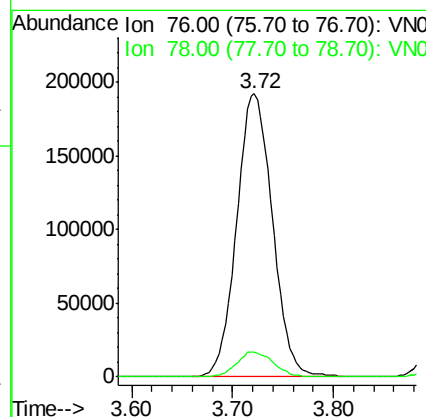
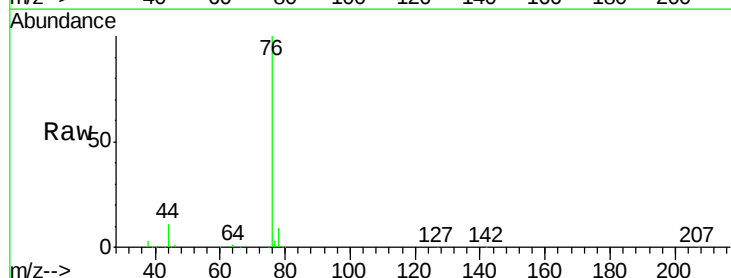
Manual Integrations
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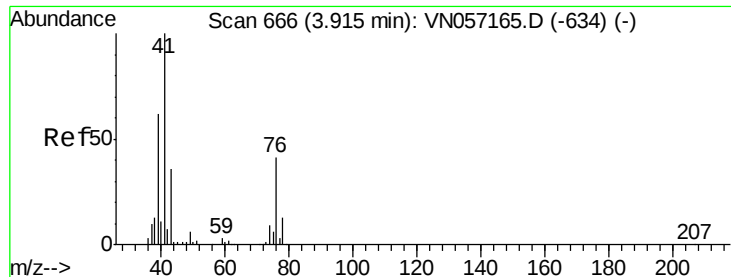
MMDadoda
8/14/2019 9:23:32 AM



#16
Carbon Disulfide
Concen: 19.105 ug/l
RT: 3.72 min Scan# 606
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Tgt Ion	76	Resp	473884
Ion Ratio	Lower	Upper	
76	100		
78	8.8	7.3	10.9





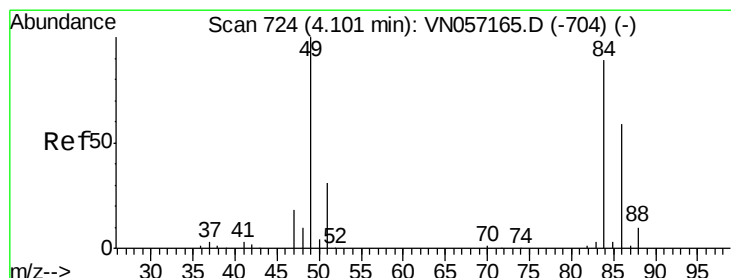
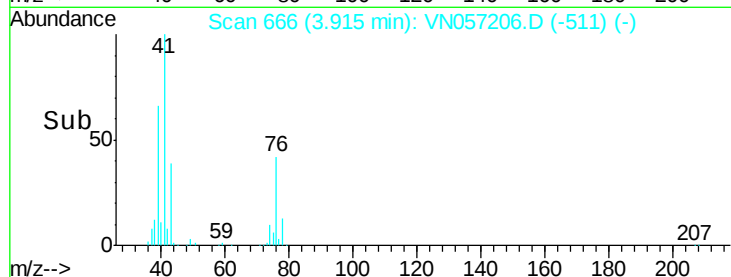
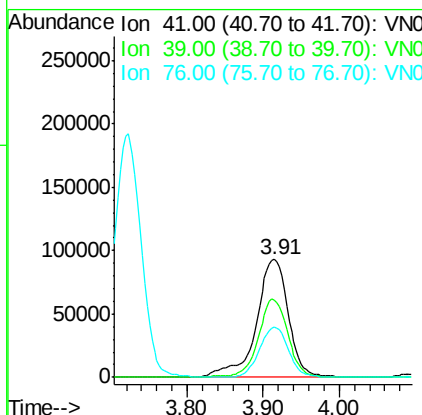
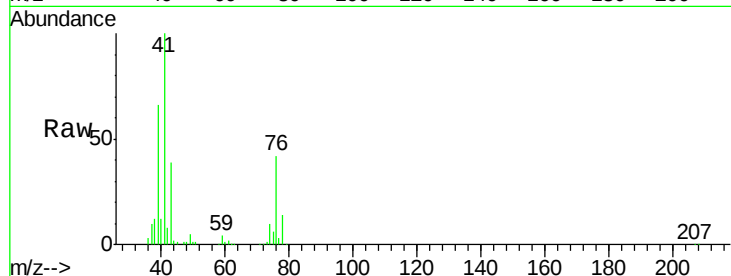
#17
Allvl chloride
Concen: 20.159 ug/l
RT: 3.91 min Scan# 666
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	65.8	31.2	93.6
76	42.0	20.5	61.6

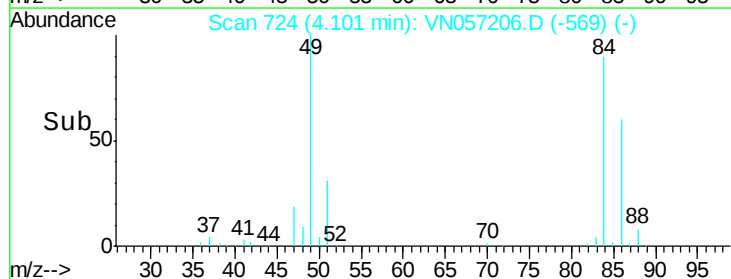
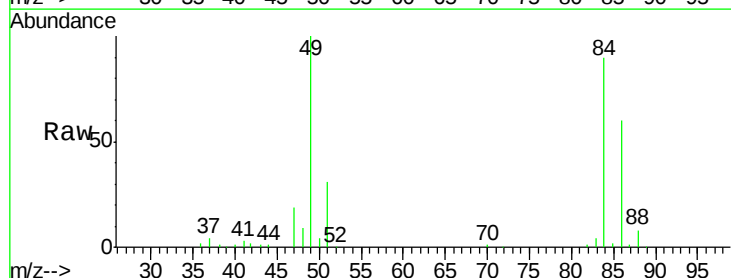
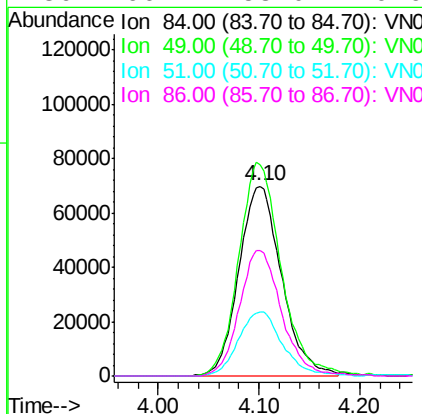
Manual Integrations
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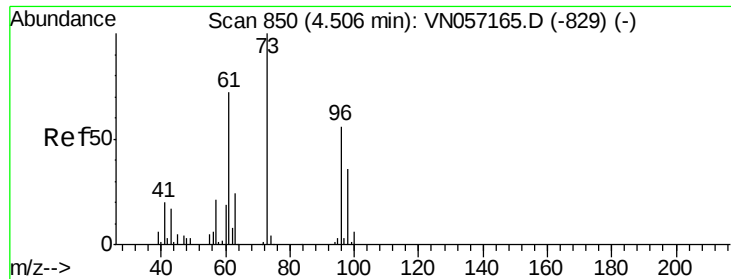
MMDadoda
8/14/2019 9:23:32 AM



#18
Methylene Chloride
Concen: 19.693 ug/l
RT: 4.10 min Scan# 724
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
84	100		
49	111.2	90.1	135.1
51	34.0	27.9	41.9
86	66.2	53.0	79.6





#19

trans-1,2-Dichloroethene

Concen: 19.721 ug/l

RT: 4.51 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

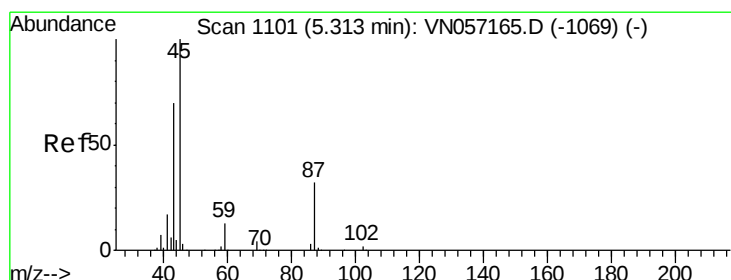
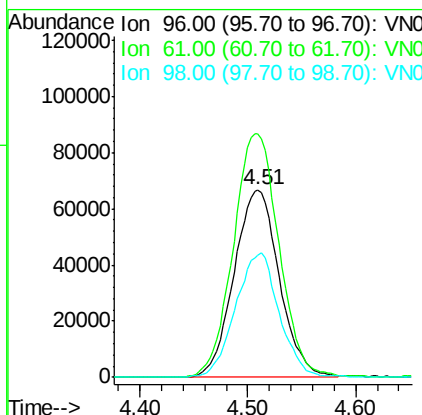
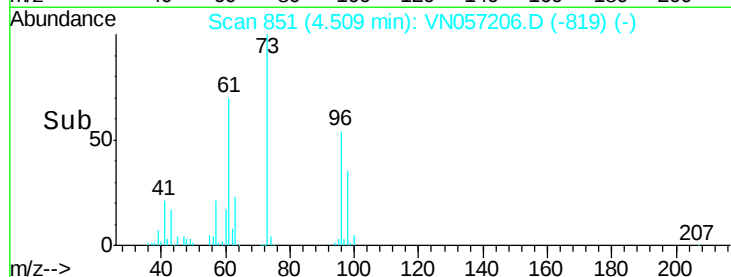
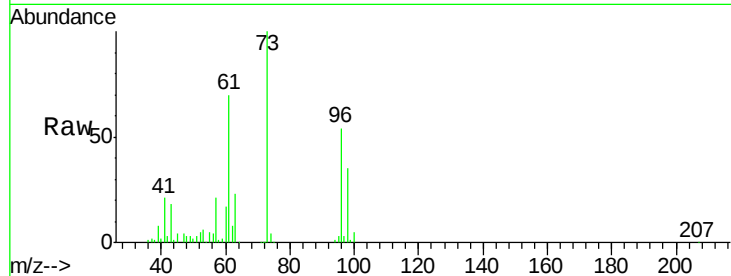
ClientSampleId :

VN0812WBS01

Tot Ion:	96	Resp:	194389
Ion	Ratio	Lower	Upper
96	100		
61	129.3	103.6	155.4
98	64.9	51.3	76.9

Manual Integrations
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MMDadoda
8/14/2019 9:23:32 AM



#20

Diisopropyl ether

Concen: 20.300 ug/l

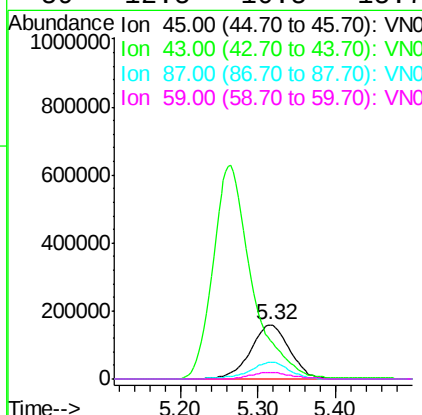
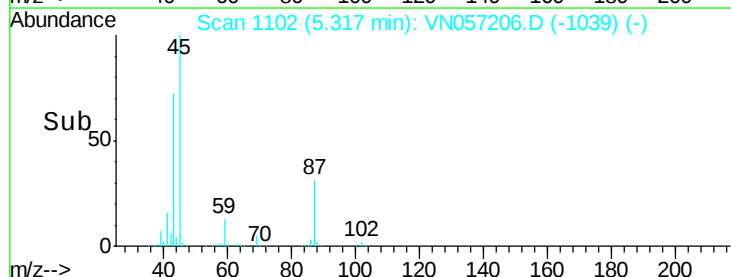
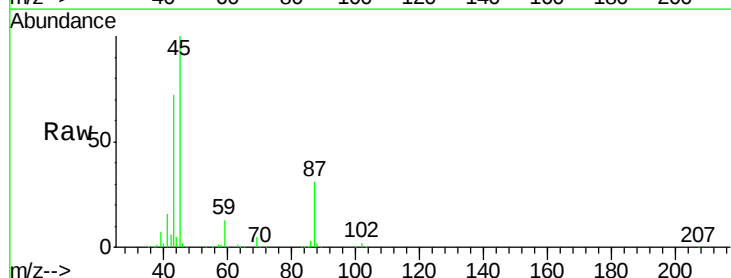
RT: 5.32 min Scan# 1102

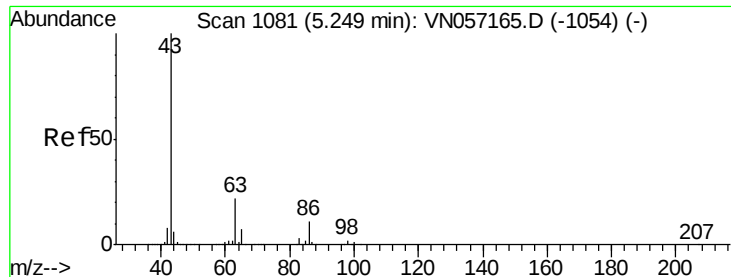
Delta R.T. 0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Tgt Ion:	45	Resp:	561182
Ion	Ratio	Lower	Upper
45	100		
43	70.0	60.0	90.0
87	30.6	25.9	38.9
59	12.5	10.5	15.7





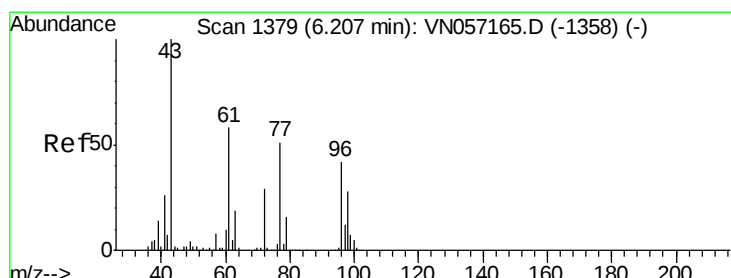
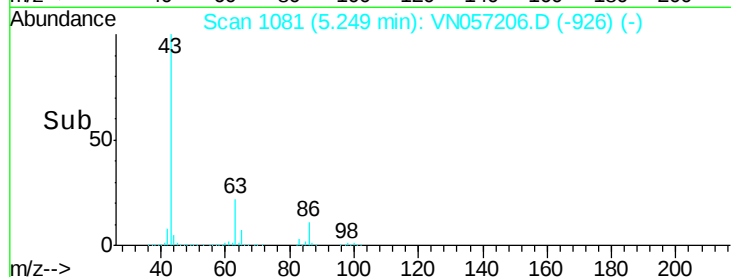
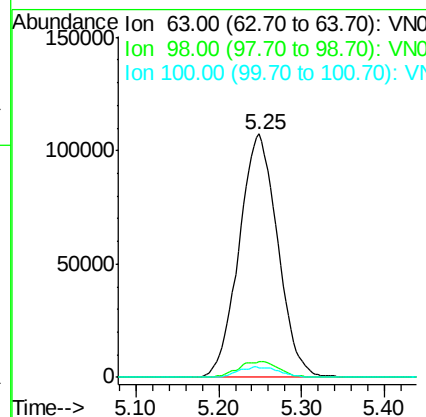
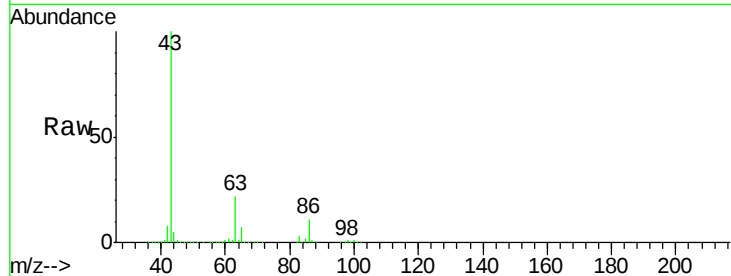
#21
 1,1-Dichloroethane
 Concen: 20.185 ug/l
 RT: 5.25 min Scan# 1081
 Delta R.T. -0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Instrument :
 MSVOA_N
 ClientSampled :
 VN0812WBS01

Tot Ion	Ratio	Resp Lower	Upper
63	100		
98	6.3	3.5	10.4
100	3.8	1.9	5.7

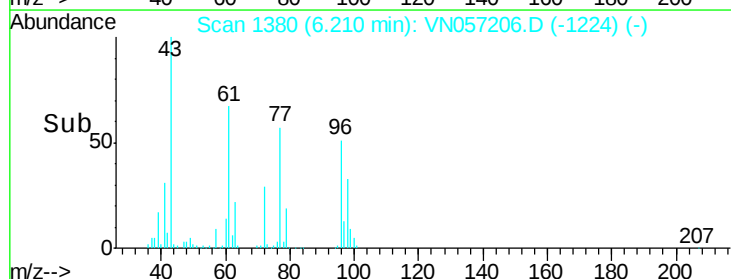
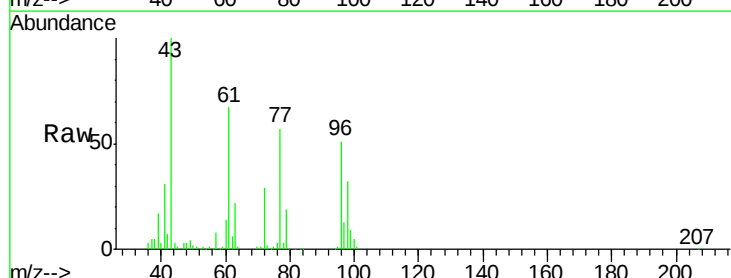
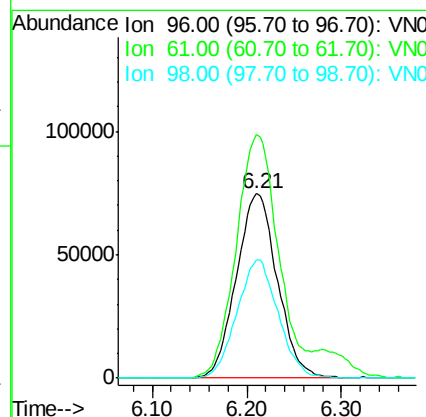
Manual Integrations
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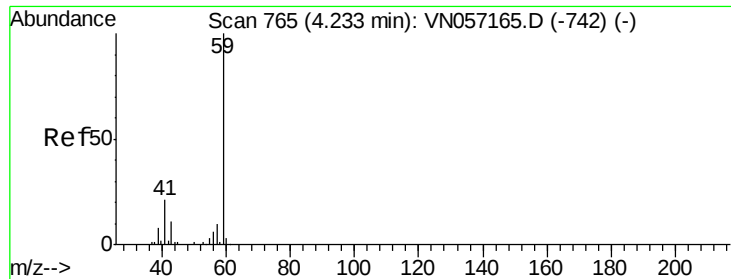
MMDadoda
 8/14/2019 9:23:32 AM



#22
 cis-1,2-Dichloroethene
 Concen: 20.074 ug/l
 RT: 6.21 min Scan# 1380
 Delta R.T. 0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Resp Lower	Upper
96	100		
61	136.2	109.2	163.8
98	64.7	51.7	77.5





#23

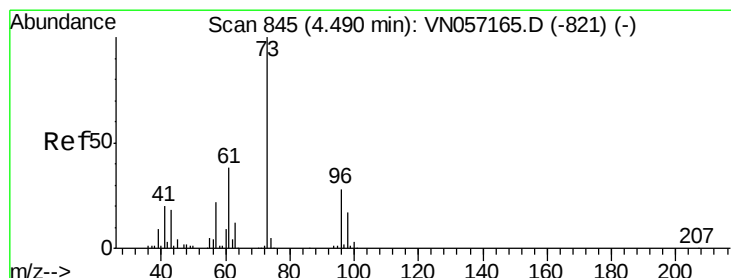
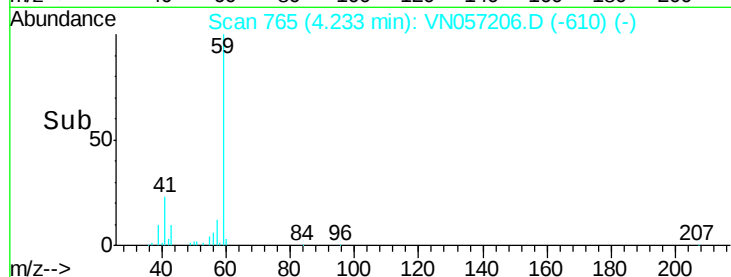
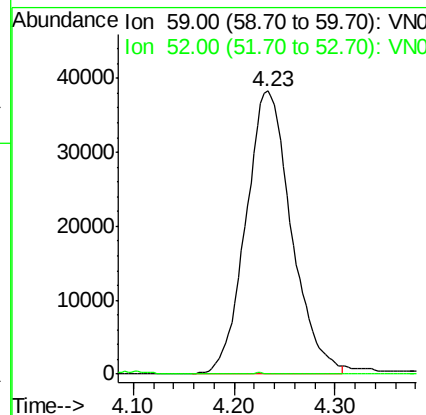
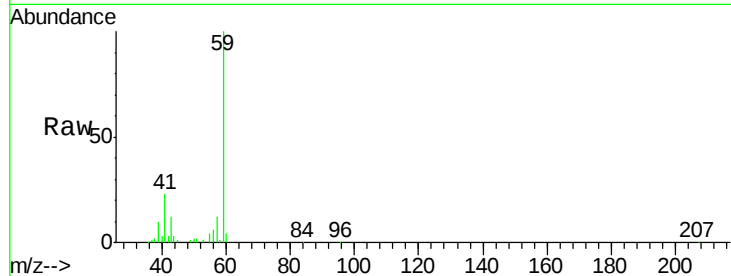
tert-Butyl Alcohol
Concen: 91.063 ug/l
RT: 4.23 min Scan# 765
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
52	0.1	0.2	0.2#

Manual Integrations
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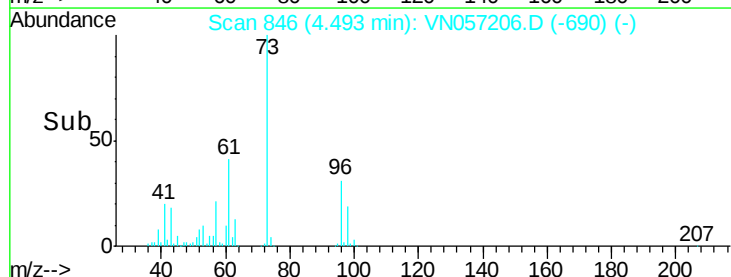
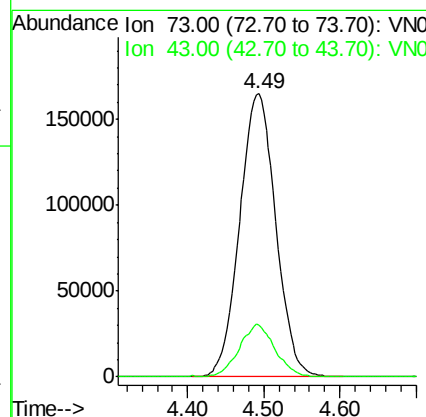
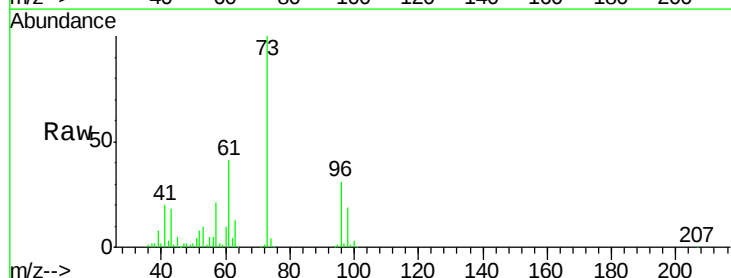
MMDadoda
8/14/2019 9:23:32 AM

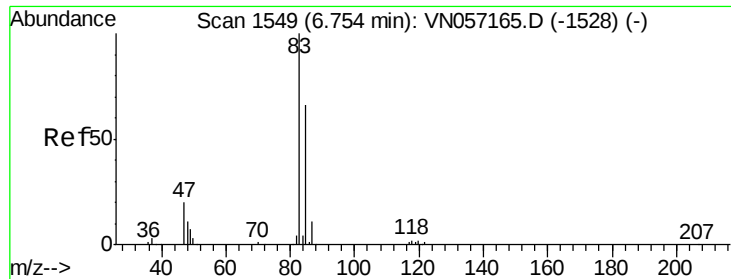


#24

Methyl tert-Butyl Ether
Concen: 20.132 ug/l
RT: 4.49 min Scan# 846
Delta R.T. 0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
73	100		
43	17.9	14.3	21.5





#25

Chloroform

Concen: 19.958 ug/l

RT: 6.76 min Scan# 1550

Delta R.T. 0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

ClientSampleId :

VN0812WBS01

Tot Ion: 83 Resp: 353346

Ion Ratio Lower Upper

83 100

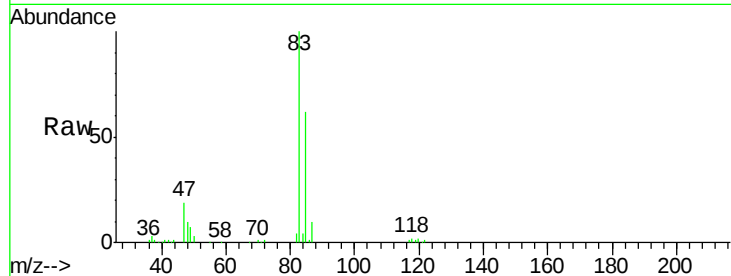
85 62.4 52.5 78.7

Manual Integrations

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MMDadoda

8/14/2019 9:23:32 AM



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

150000

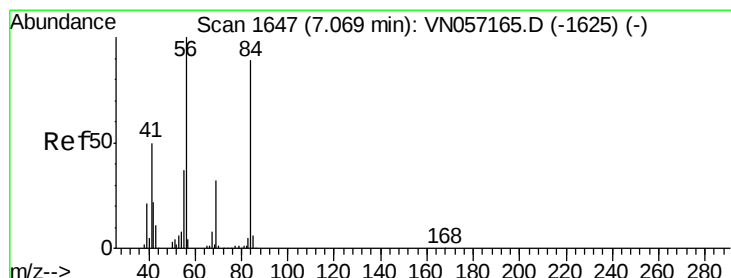
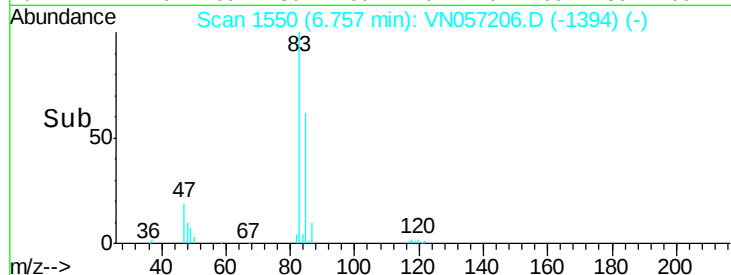
100000

50000

0

6.70 6.80

Time-->



#26

Cyclohexane

Concen: 19.672 ug/l

RT: 7.07 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

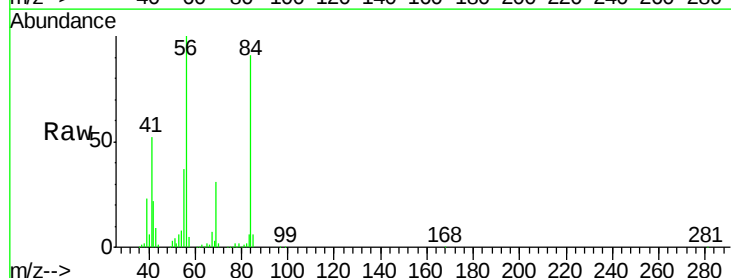
Tgt Ion: 56 Resp: 289546

Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 92.0 70.8 106.2



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

150000

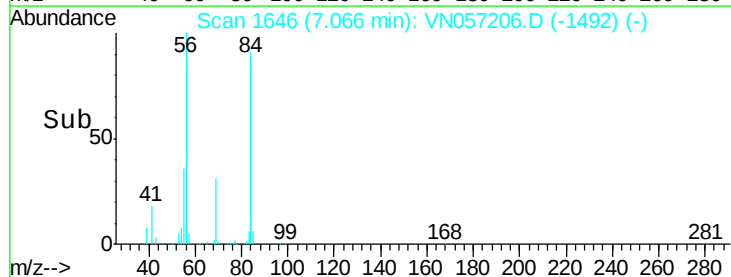
100000

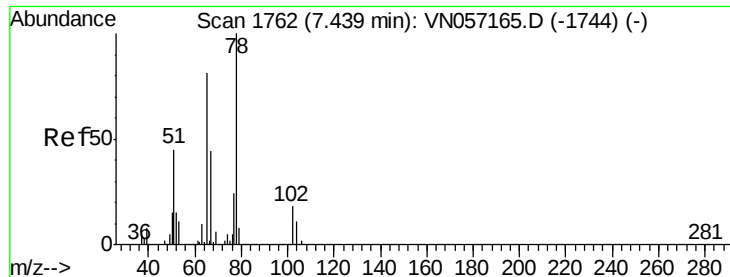
50000

0

6.95 7.00 7.05 7.10 7.15

Time-->





#27

1,2-Dichloroethane-d4

Concen: 29.832 ug/l

RT: 7.44 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

ClientSampleId :

VN0812WBS01

Tot Ion: 65 Resp: 311920

Ion Ratio Lower Upper

65 100

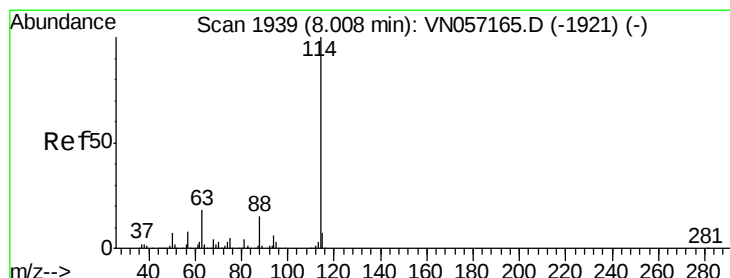
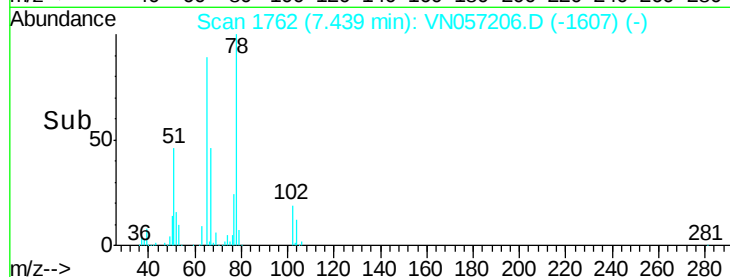
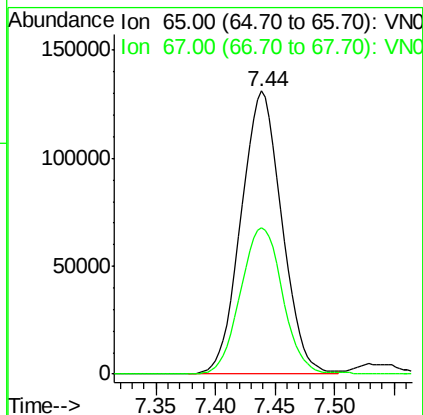
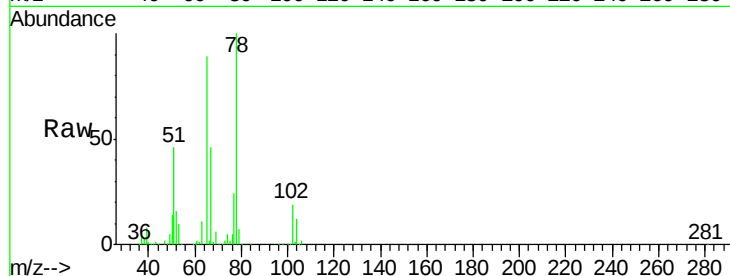
67 53.5 42.4 63.6

Manual Integrations

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MMDadoda

8/14/2019 9:23:32 AM



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

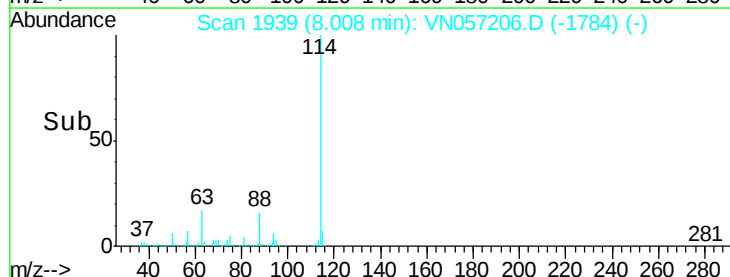
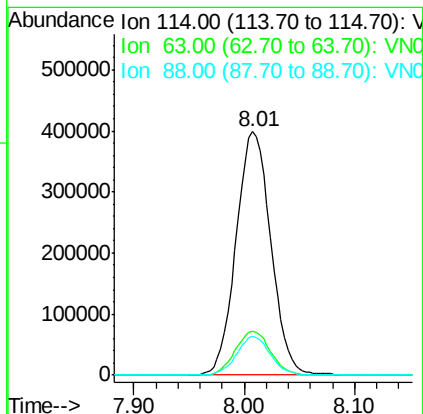
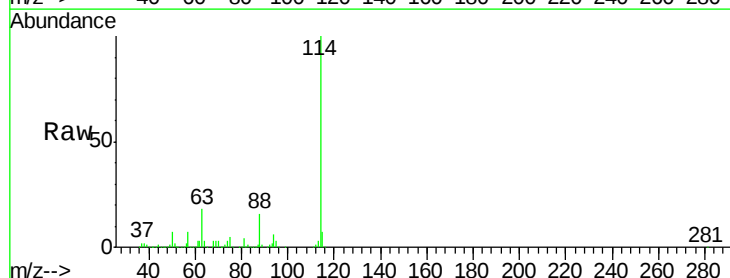
Tgt Ion: 114 Resp: 869943

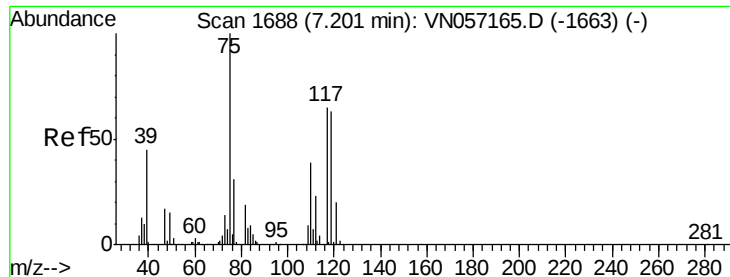
Ion Ratio Lower Upper

114 100

63 18.3 14.6 21.8

88 15.4 12.2 18.2





#29

1,1-Dichloropropene

Concen: 19.868 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

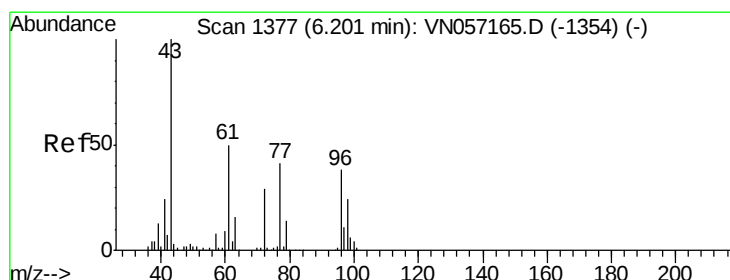
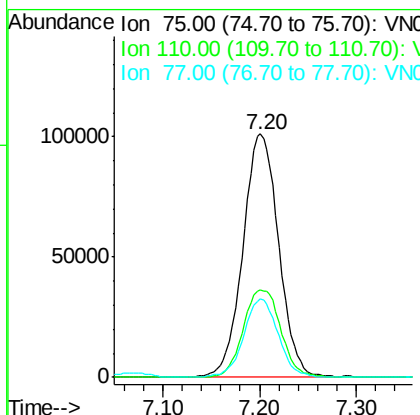
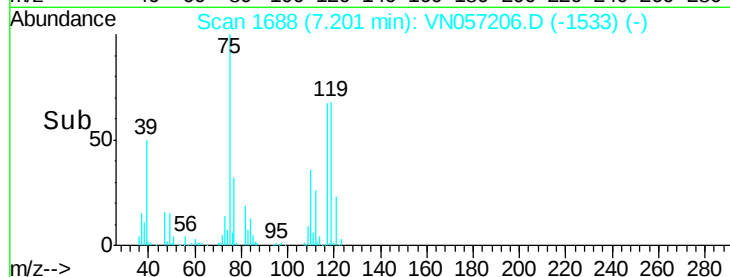
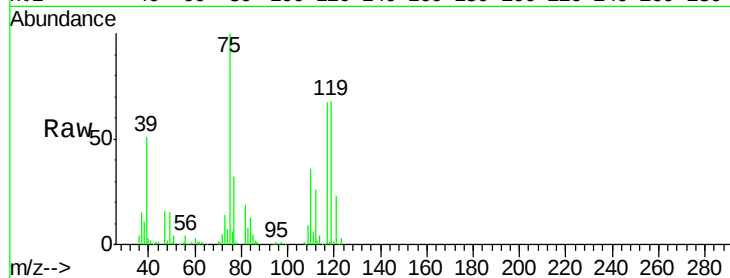
ClientSampleId :

VN0812WBS01

Tot Ion:	75	Resp:	259921
Ion Ratio	Lower	Upper	
75	100		
110	37.7	0.0	75.6
77	31.2	0.0	62.4

Manual Integrations
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8/14/2019 9:23:32 AM



#30

2-Butanone

Concen: 94.856 ug/l

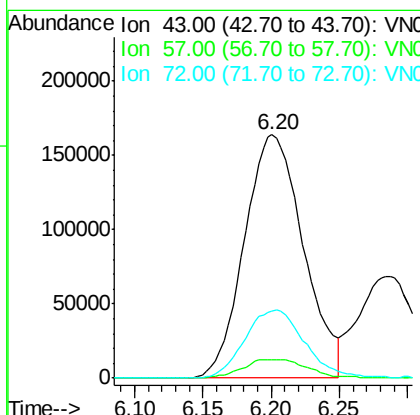
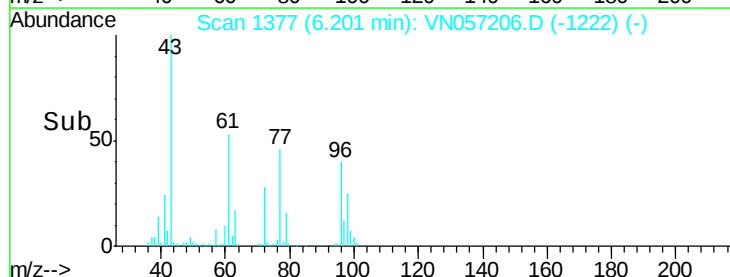
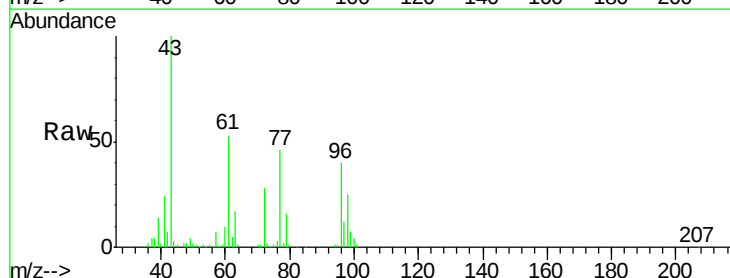
RT: 6.20 min Scan# 1377

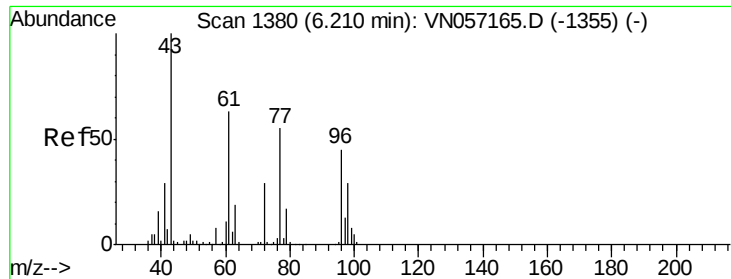
Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Tgt Ion:	43	Resp:	488564
Ion Ratio	Lower	Upper	
43	100		
57	3.6	6.8	10.2#
72	28.8	23.0	34.6





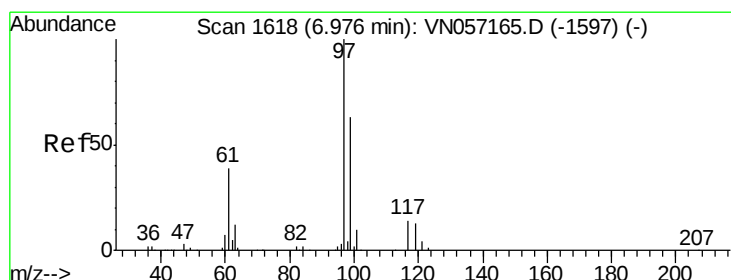
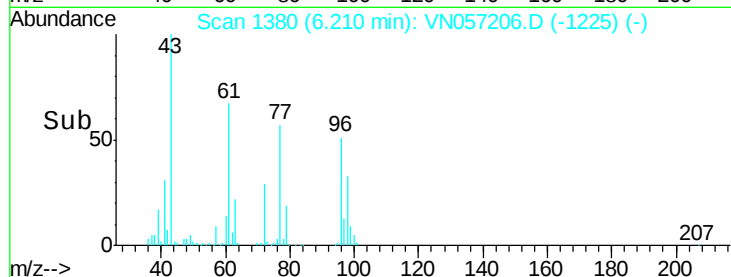
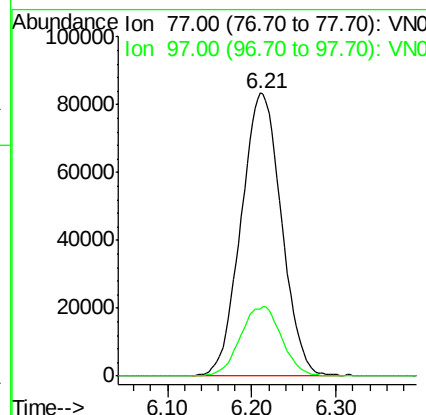
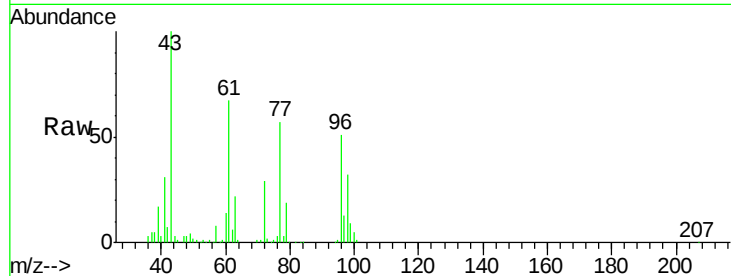
#31
 2,2-Dichloropropane
 Concen: 19.861 ug/l
 RT: 6.21 min Scan# 1380
 Delta R.T. -0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0812WBS01

Tot Ion: 77 Resp: 277806
 Ion Ratio Lower Upper
 77 100
 97 13.0 19.4 29.2#

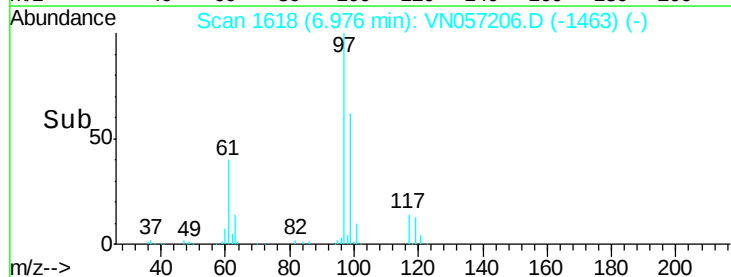
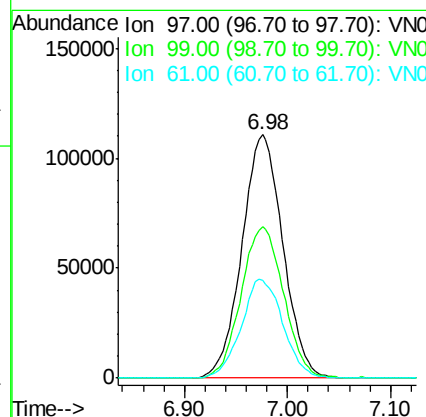
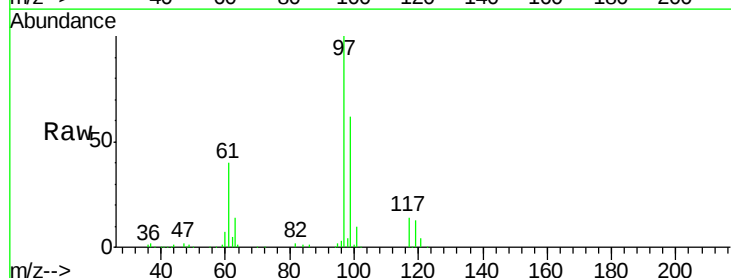
Manual Integrations
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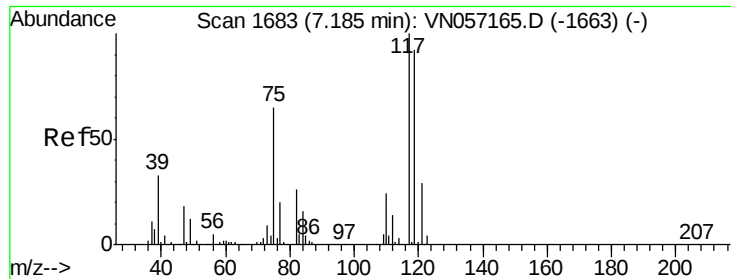
MMDadoda
 8/14/2019 9:23:32 AM



#32
 1,1,1-Trichloroethane
 Concen: 20.203 ug/l
 RT: 6.98 min Scan# 1618
 Delta R.T. -0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Tgt Ion: 97 Resp: 306094
 Ion Ratio Lower Upper
 97 100
 99 64.4 52.4 78.6
 61 41.2 32.3 48.5





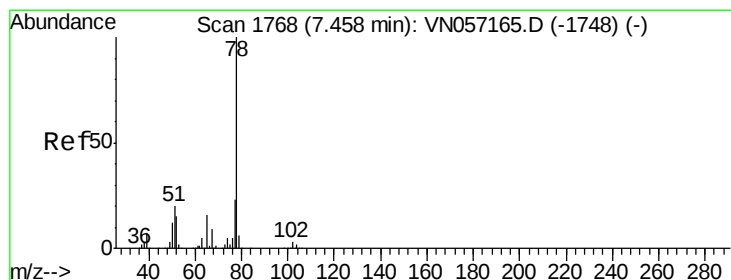
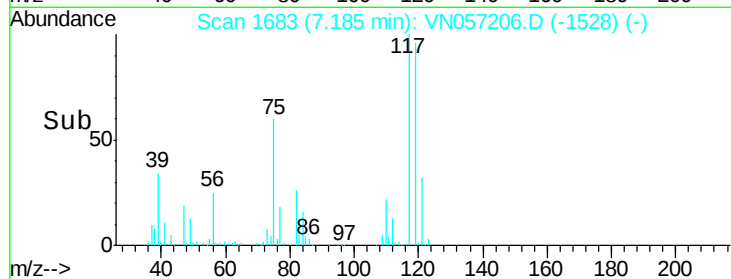
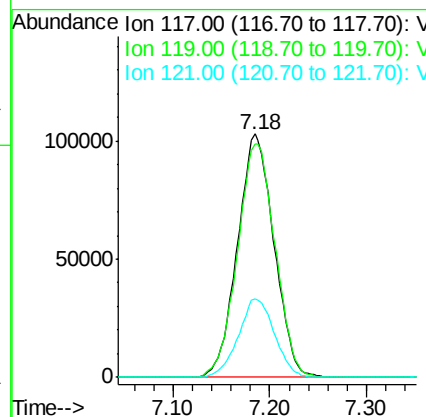
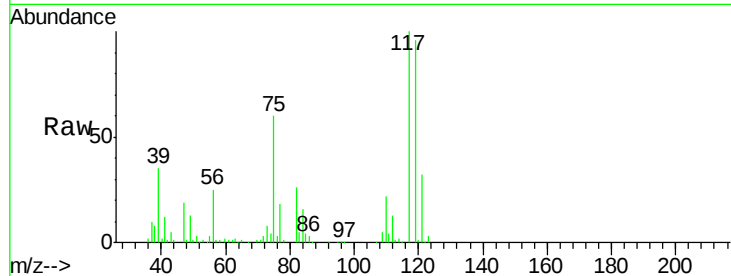
#33
Carbon Tetrachloride
Concen: 20.050 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	270413		
119	95.8	73.9	110.9	
121	32.2	23.4	35.2	

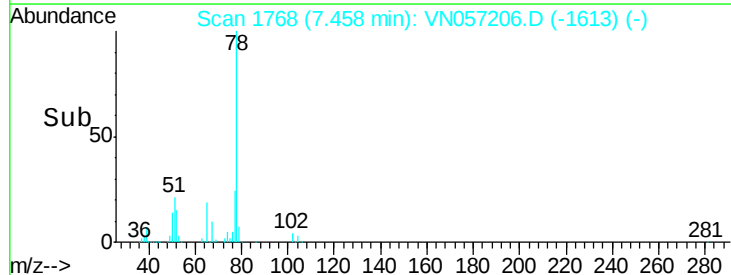
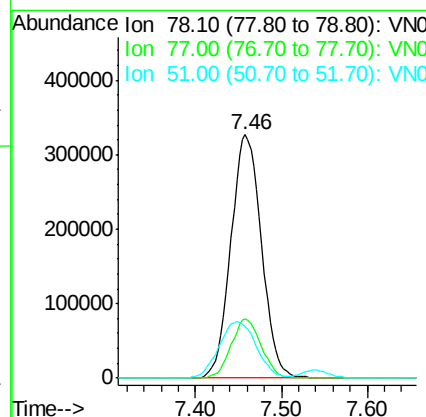
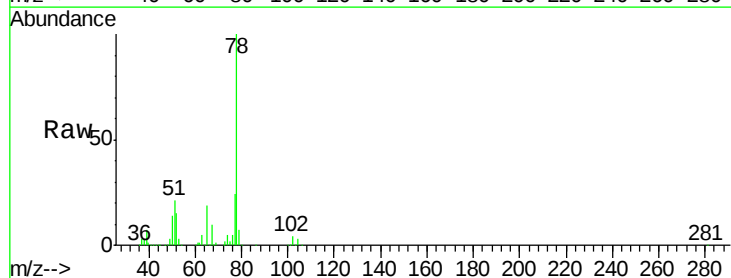
Manual Integrations
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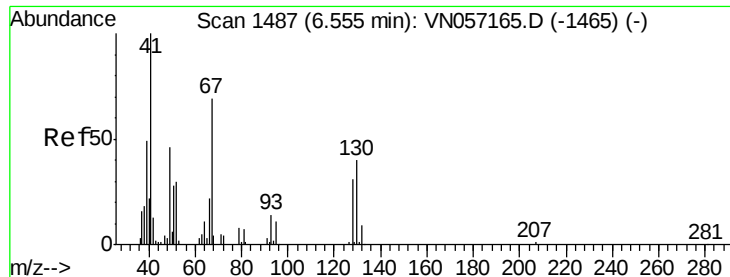
MMDadoda
8/14/2019 9:23:32 AM



#34
Benzene
Concen: 20.248 ug/l
RT: 7.46 min Scan# 1768
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	808593		
77	24.5	18.3	27.5	
51	20.9	16.2	24.2	





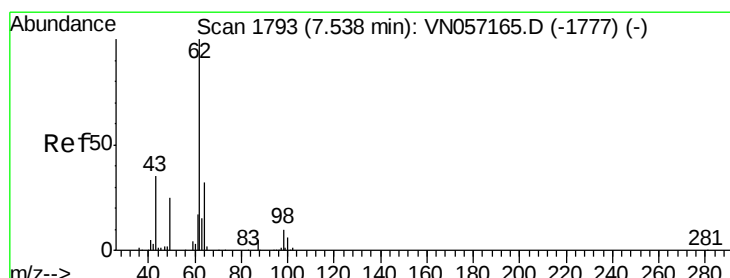
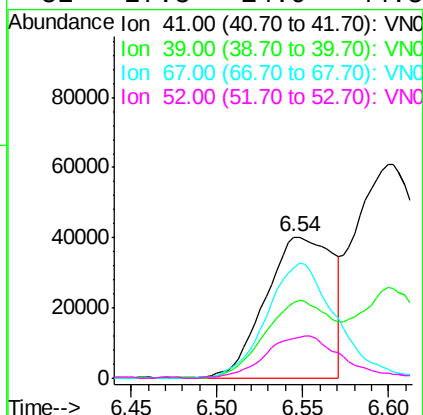
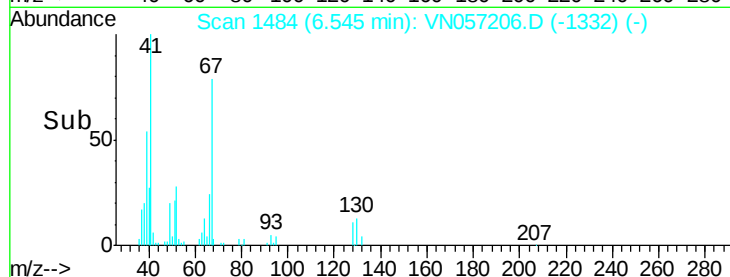
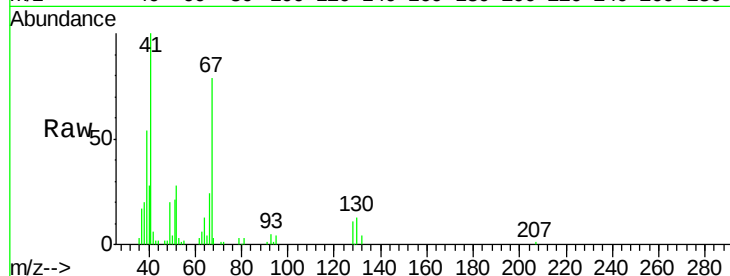
#35
Methacrylonitrile
Concen: 21.033 ug/l
RT: 6.54 min Scan# 1484
Delta R.T. -0.01 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Tot Ion	41	Resp	109486
Ion Ratio	Lower	Upper	
41	100		
39	53.0	24.6	74.0
67	78.6	34.4	103.2
52	27.8	14.9	44.5

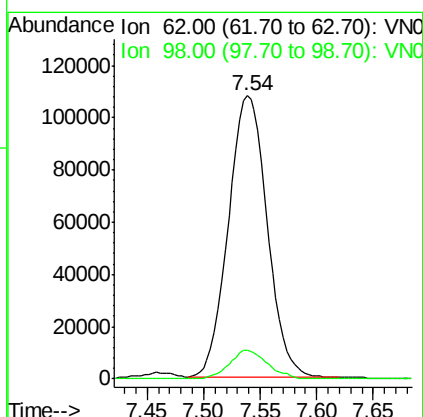
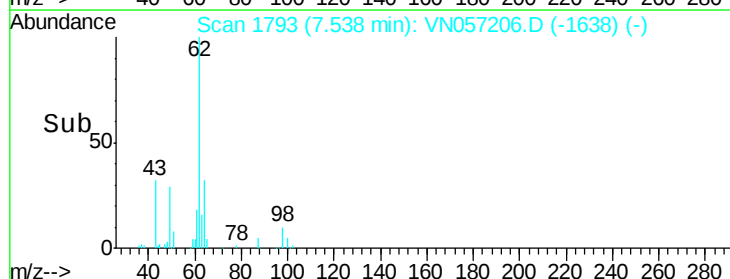
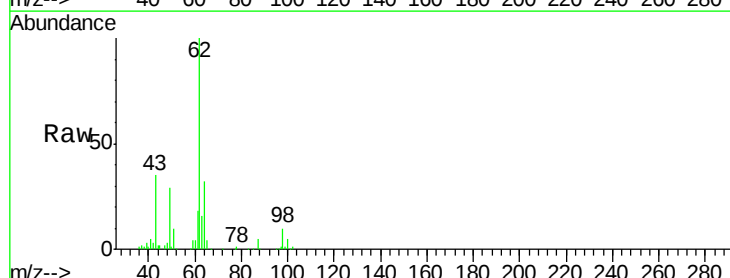
Manual Integrations
APPROVED

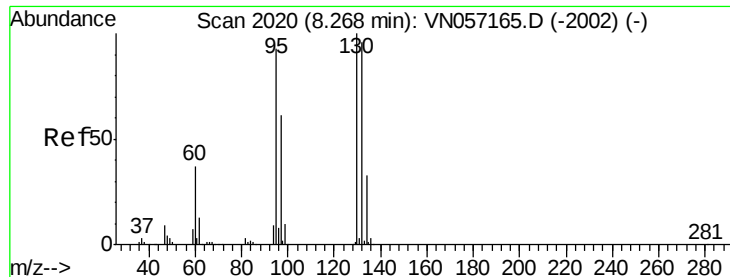
MMDadoda
8/14/2019 9:23:32 AM



#36
1,2-Dichloroethane
Concen: 20.253 ug/l
RT: 7.54 min Scan# 1793
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Tgt Ion	62	Resp	258385
Ion Ratio	Lower	Upper	
62	100		
98	10.0	8.2	12.4





#37

Trichloroethene

Concen: 20.295 ug/l

RT: 8.27 min Scan# 2020

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

ClientSampled :

VN0812WBS01

Tot Ion:130 Resp: 230305

Ion Ratio Lower Upper

130 100

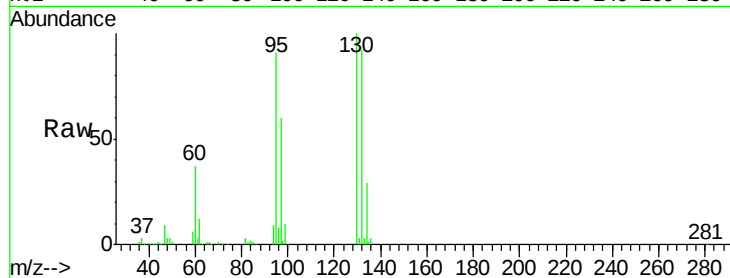
95 90.9 74.6 112.0

Manual Integrations

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MMDadoda

8/14/2019 9:23:32 AM



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.27

120000

100000

80000

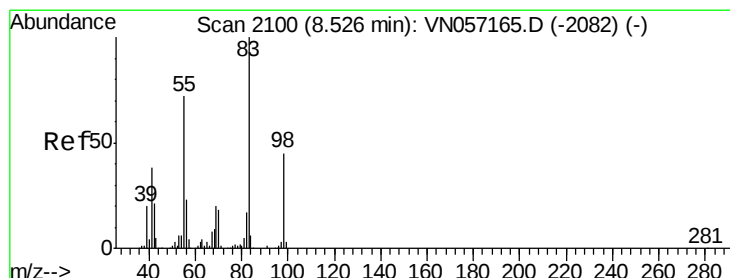
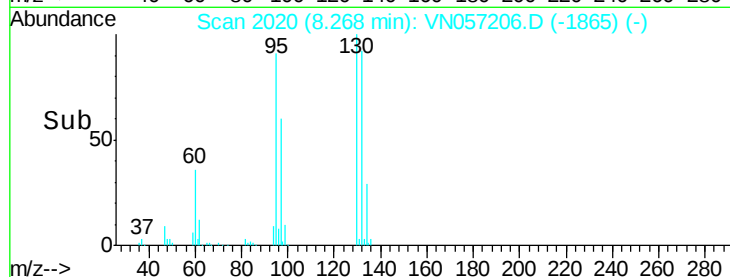
60000

40000

20000

0

Time-->



#38

Methylcyclohexane

Concen: 20.295 ug/l

RT: 8.52 min Scan# 2099

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

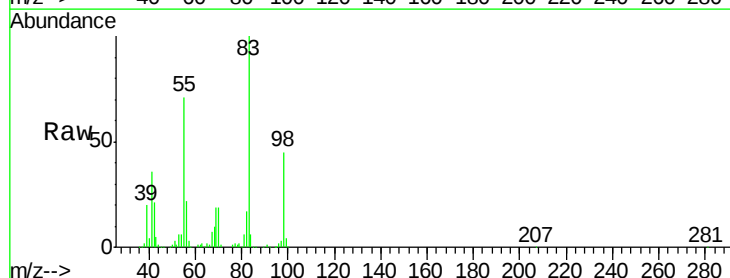
Tgt Ion: 83 Resp: 316843

Ion Ratio Lower Upper

83 100

55 71.3 36.5 109.7

98 45.6 23.4 70.0



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

200000

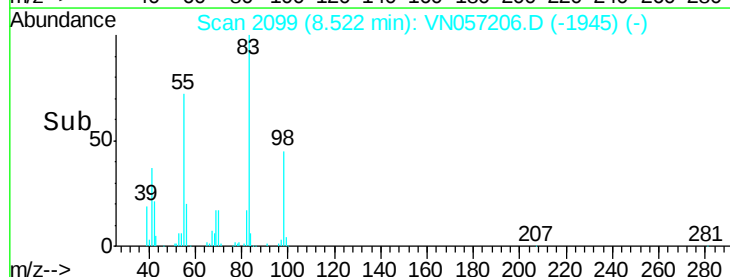
150000

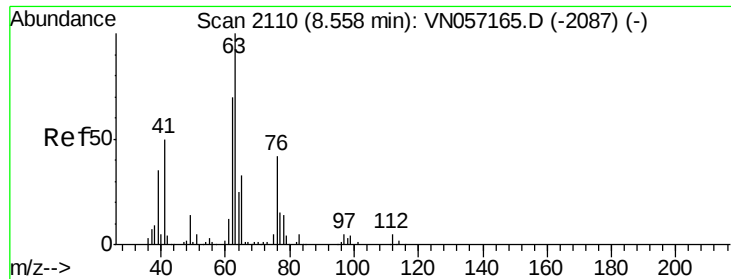
100000

50000

0

Time-->





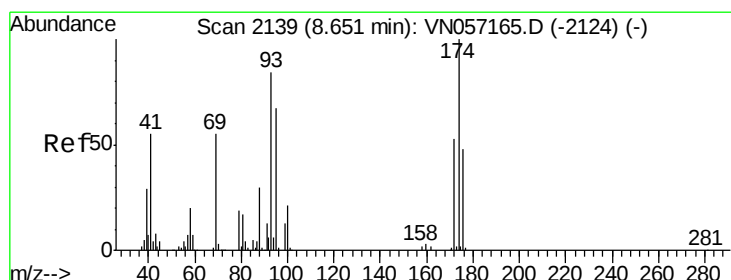
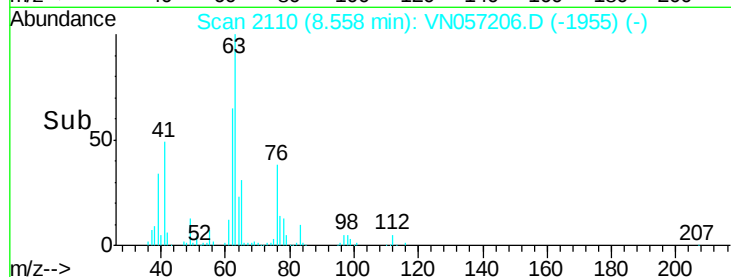
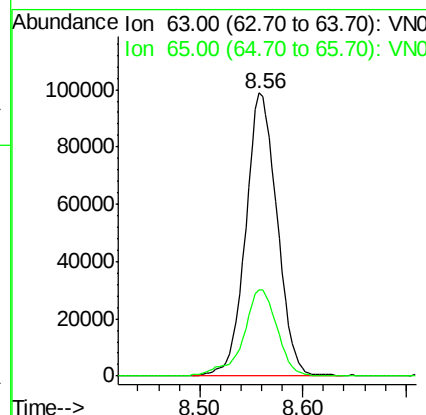
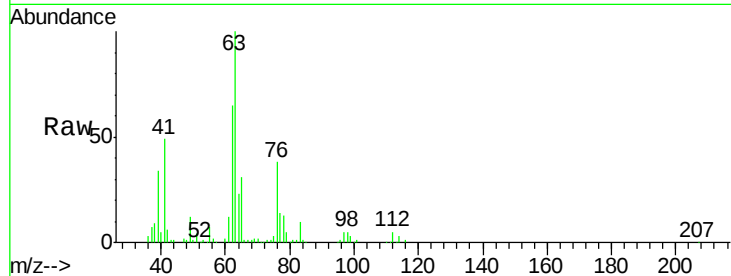
#39
 1,2-Dichloropropane
 Concen: 20.313 ug/l
 RT: 8.56 min Scan# 2110
 Delta R.T. -0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Instrument :
 MSVOA_N
 ClientSampled :
 VN0812WBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.6	26.2	39.4

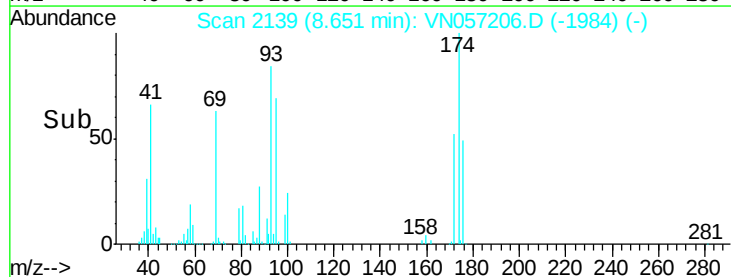
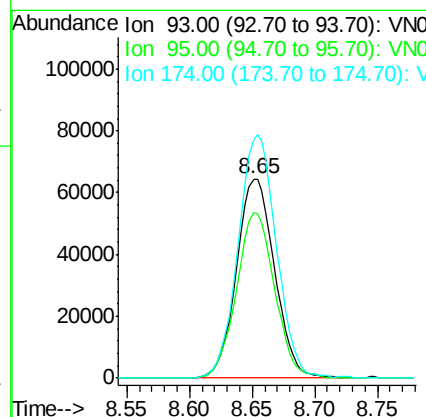
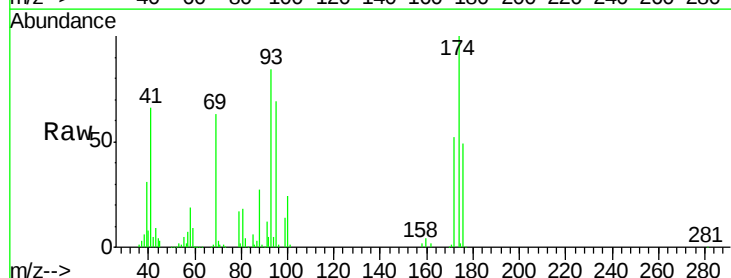
Manual Integrations
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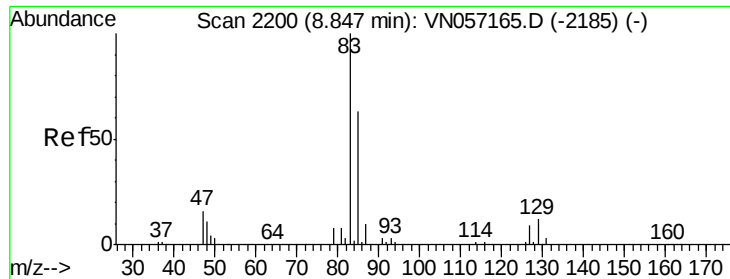
MMDadoda
 8/14/2019 9:23:32 AM



#40
 Dibromomethane
 Concen: 20.580 ug/l
 RT: 8.65 min Scan# 2139
 Delta R.T. -0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.9	0.0	165.0
174	122.2	0.0	245.4





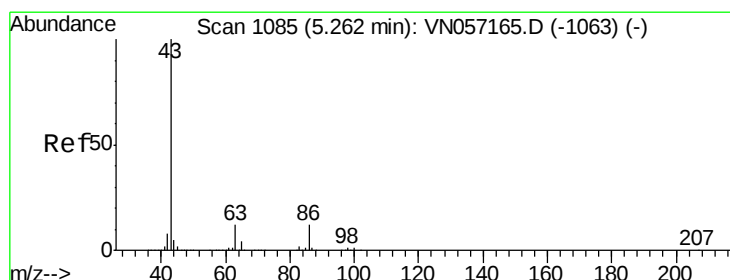
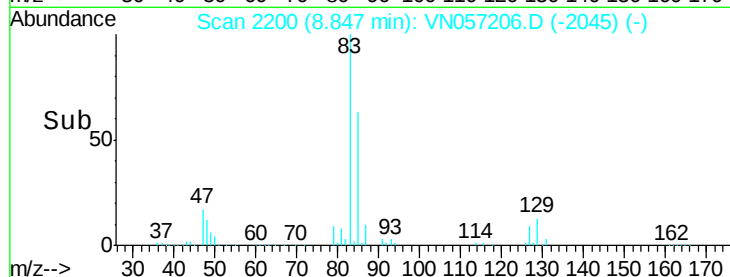
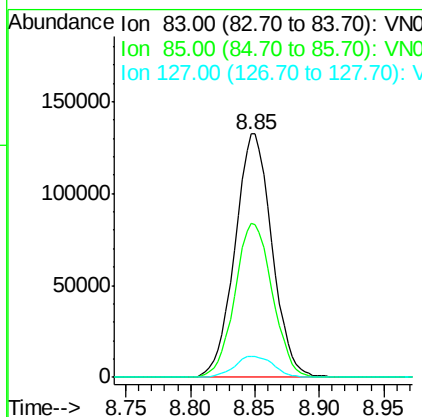
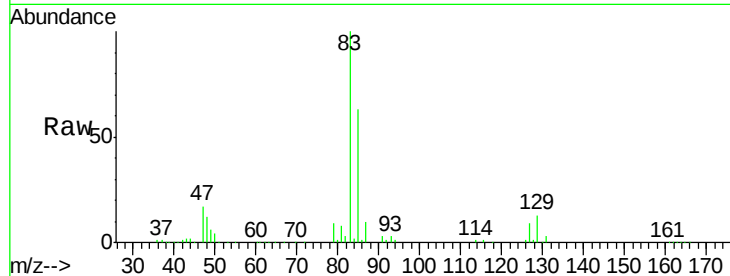
#41
 Bromodichloromethane
 Concen: 20.112 ug/l
 RT: 8.85 min Scan# 2200
 Delta R.T. -0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0812WBS01

Tot Ion	83	Resp	265012
Ion Ratio	100	Lower	Upper
83	100		
85	63.2	50.6	76.0
127	8.8	7.0	10.6

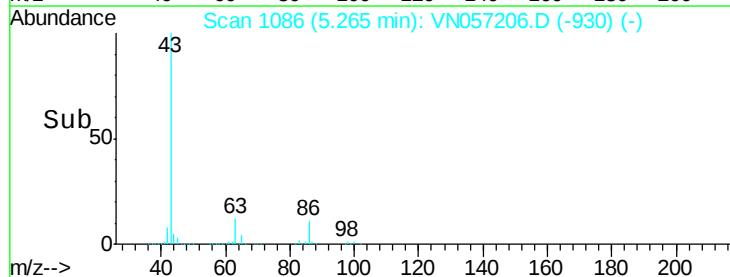
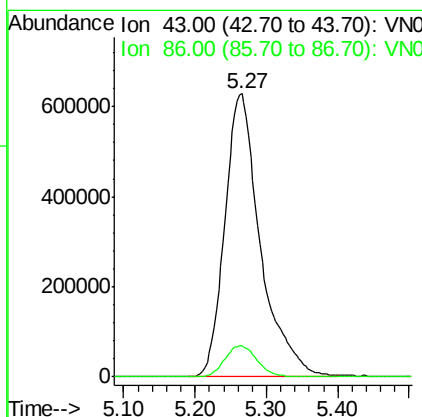
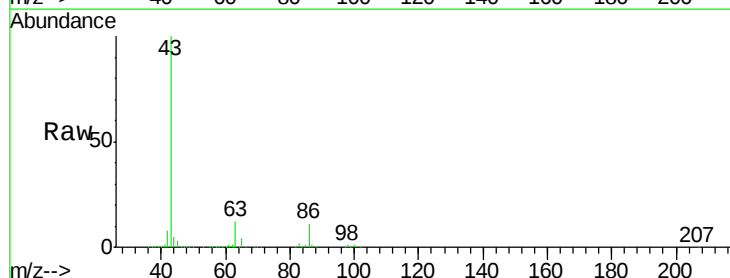
Manual Integrations
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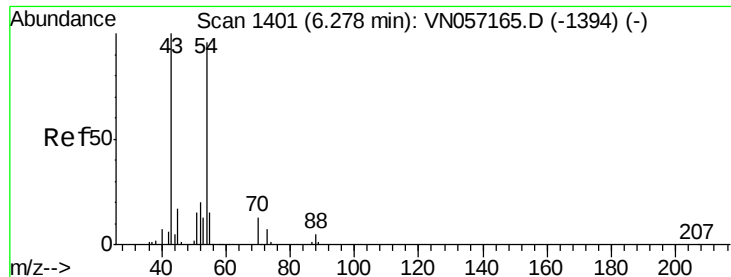
MMDadoda
 8/14/2019 9:23:32 AM



#42
 Vinyl Acetate
 Concen: 101.896 ug/l
 RT: 5.27 min Scan# 1086
 Delta R.T. 0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Tgt Ion	43	Resp	2181813
Ion Ratio	100	Lower	Upper
43	100		
86	9.9	8.0	12.0





#43

Ethyl Acetate

Concen: 18.793 ug/l

RT: 6.29 min Scan# 1404

Delta R.T. 0.01 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

ClientSampleId :

VN0812WBS01

Tot Ion: 43 Resp: 178516

Ion Ratio Lower Upper

43 100

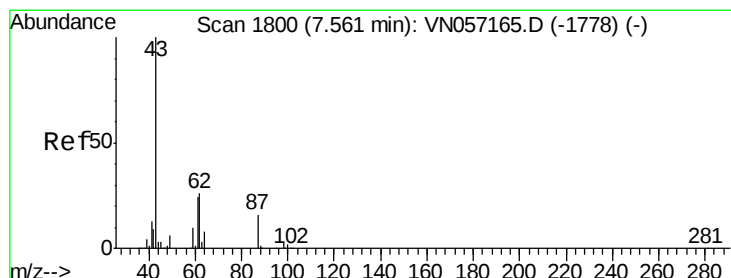
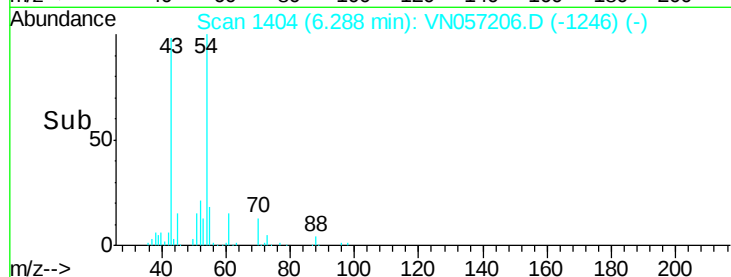
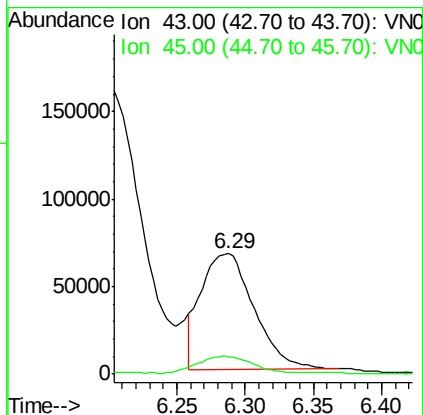
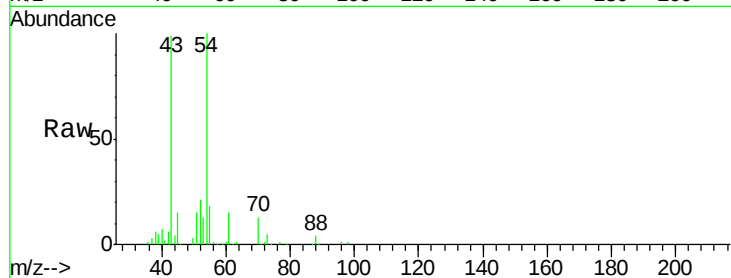
45 14.8 10.1 15.1

Manual Integrations

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#44

Isopropyl Acetate

Concen: 21.736 ug/l

RT: 7.56 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VN057206.D

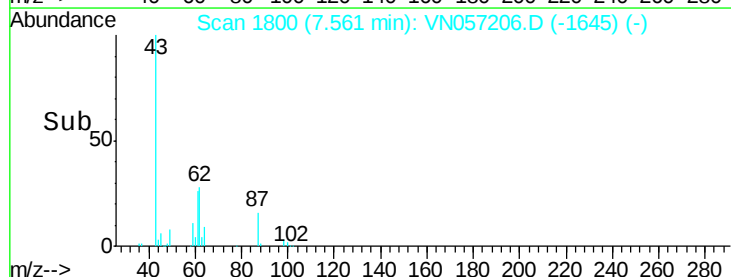
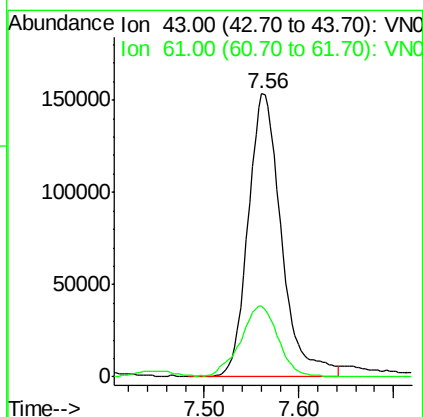
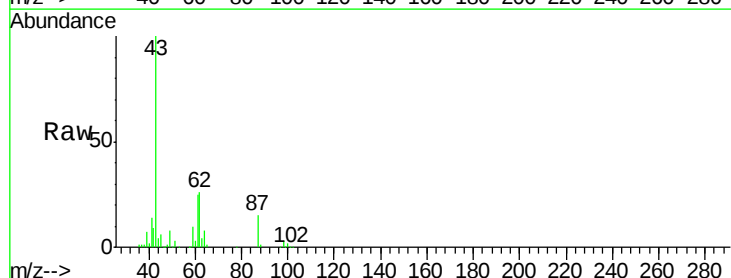
Acq: 12 Aug 2019 10:58

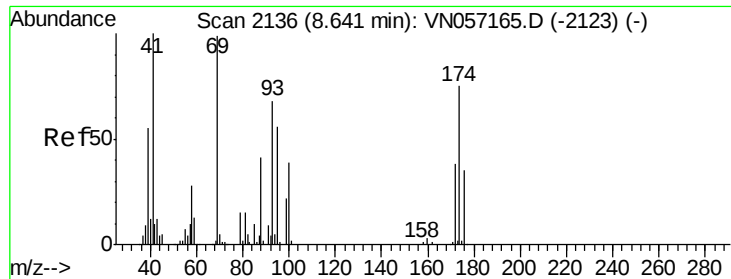
Tgt Ion: 43 Resp: 374887

Ion Ratio Lower Upper

43 100

61 27.8 22.2 33.4





#45

1,4-Dioxane

Concen: 384.872 ug/l

RT: 8.64 min Scan# 2135

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

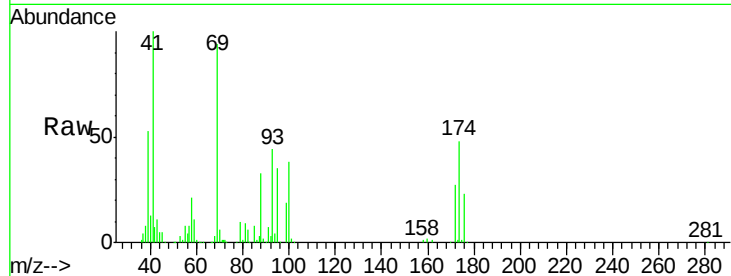
ClientSampleId :

VN0812WBS01

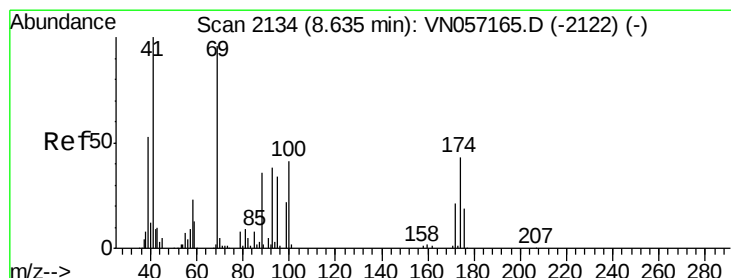
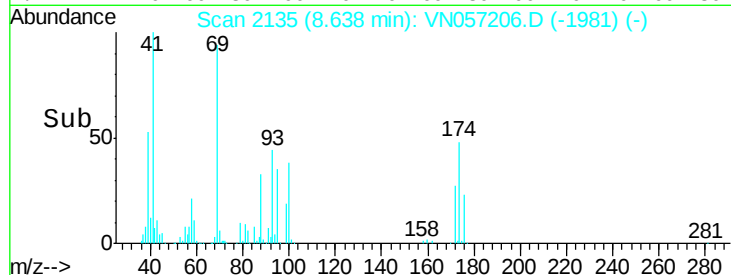
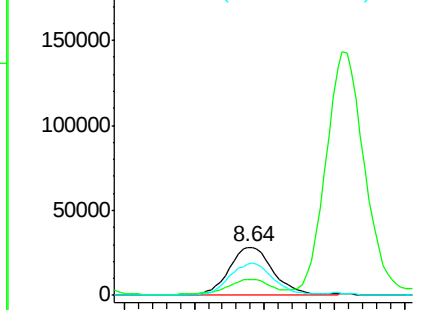
Tot Ion:	88	Resp:	61946
Ion	Ratio	Lower	Upper
88	100		
43	29.5	20.5	30.7
58	66.4	53.8	80.8

Manual Integrations
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Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO



#46

Methyl methacrylate

Concen: 20.243 ug/l

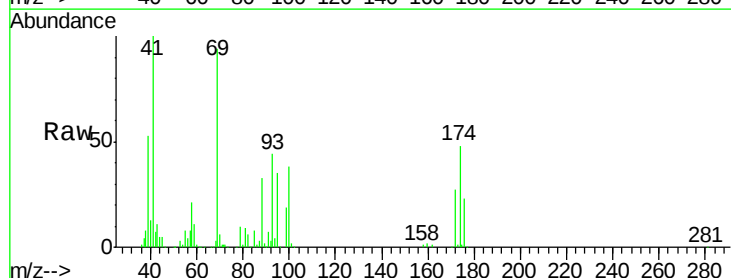
RT: 8.64 min Scan# 2135

Delta R.T. 0.00 min

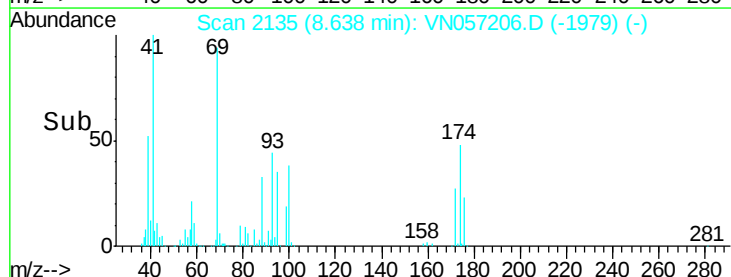
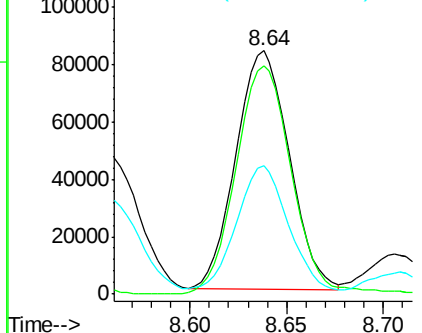
Lab File: VN057206.D

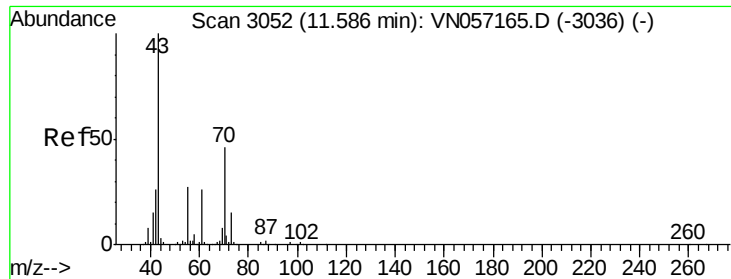
Acq: 12 Aug 2019 10:58

Tgt Ion:	41	Resp:	159185
Ion	Ratio	Lower	Upper
41	100		
69	95.6	48.1	144.4
39	52.2	26.5	79.5



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





#47

n-amvl Acetate

Concen: 18.616 ug/l

RT: 11.59 min Scan# 3052

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

ClientSampleId :

VN0812WBS01

Tot Ion: 43 Resp: 236216

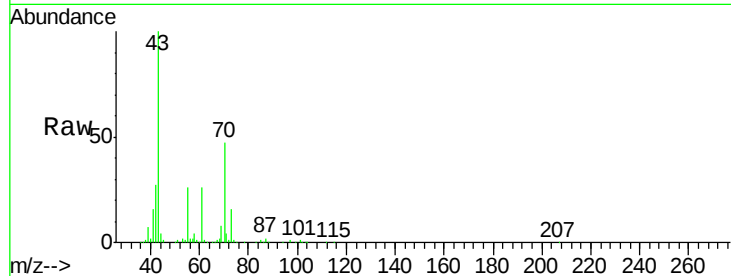
Ion Ratio Lower Upper

43 100

55 26.5 20.7 31.1

Manual Integrations
APPROVED

MMDadoda
8/14/2019 9:23:32 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

11.59

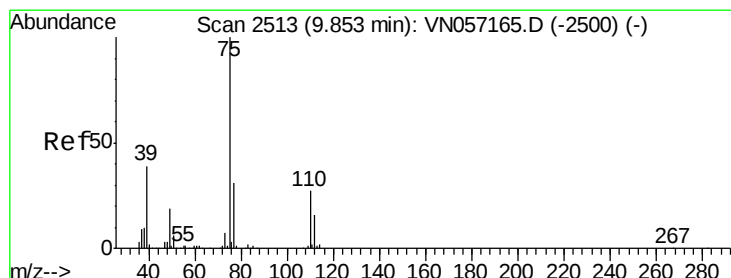
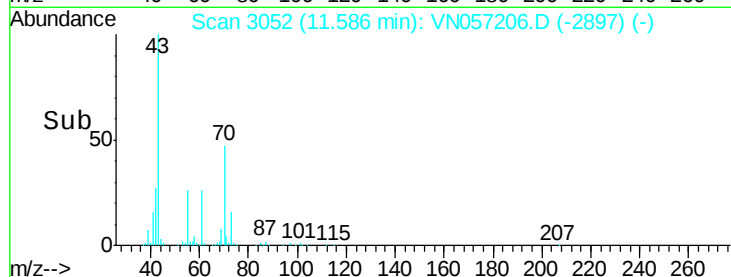
150000

100000

50000

0

Time-->



#48

t-1,3-Dichloropropene

Concen: 20.097 ug/l

RT: 9.86 min Scan# 2514

Delta R.T. 0.00 min

Lab File: VN057206.D

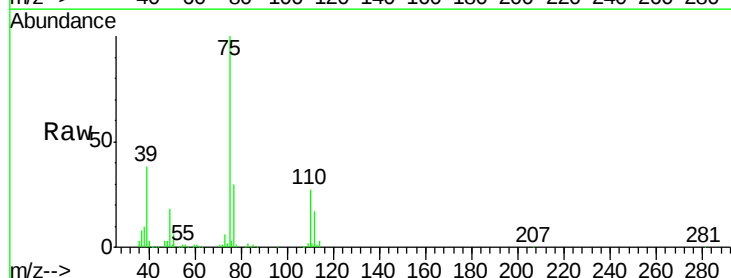
Acq: 12 Aug 2019 10:58

Tgt Ion: 75 Resp: 282370

Ion Ratio Lower Upper

75 100

77 30.5 24.9 37.3



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

9.86

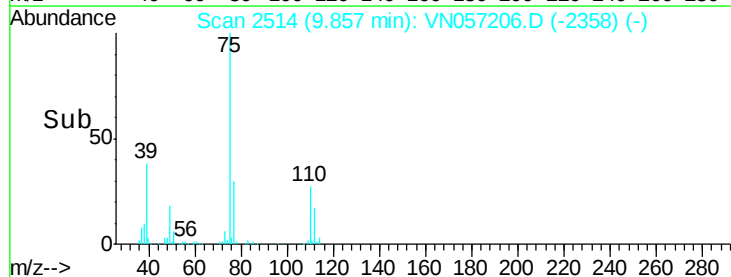
150000

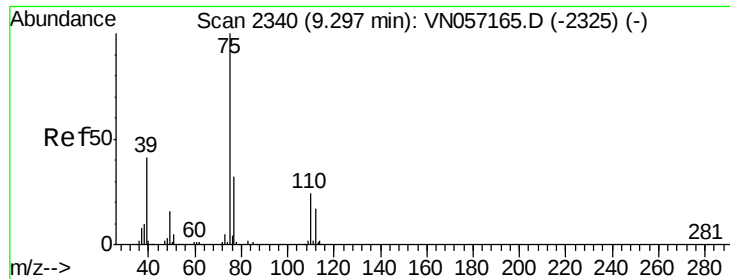
100000

50000

0

Time-->





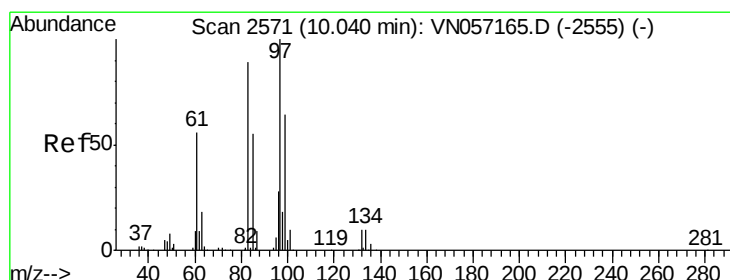
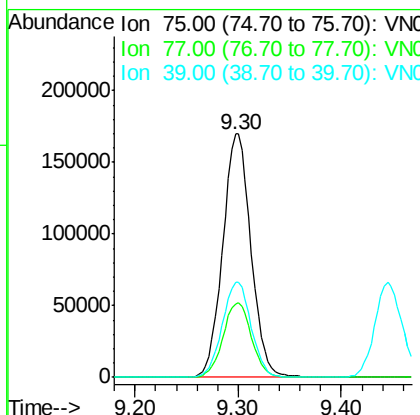
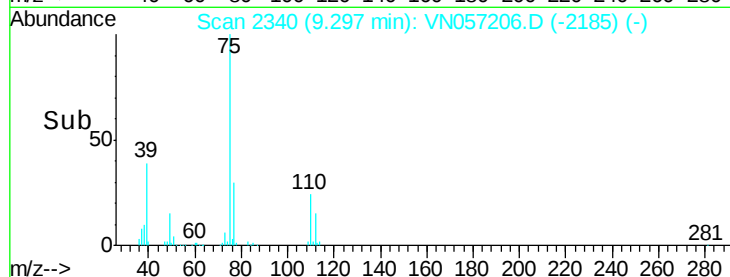
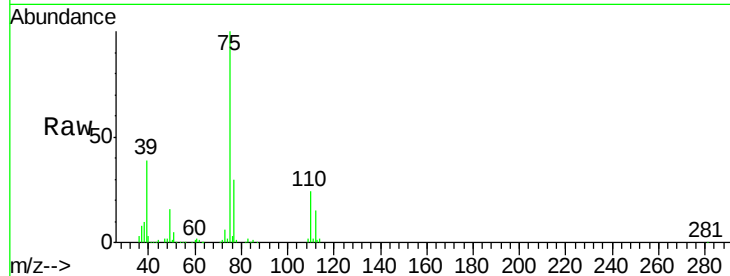
#49
 cis-1,3-Dichloropropene
 Concen: 20.278 ug/l
 RT: 9.30 min Scan# 2340
 Delta R.T. -0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0812WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.8	38.8
39	38.9	33.0	49.6

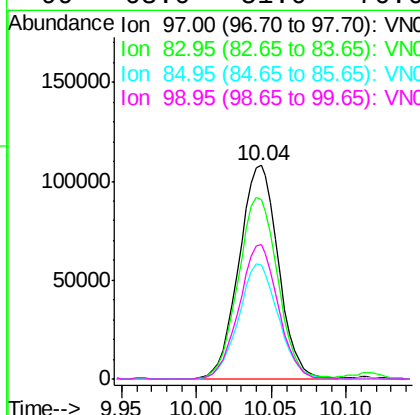
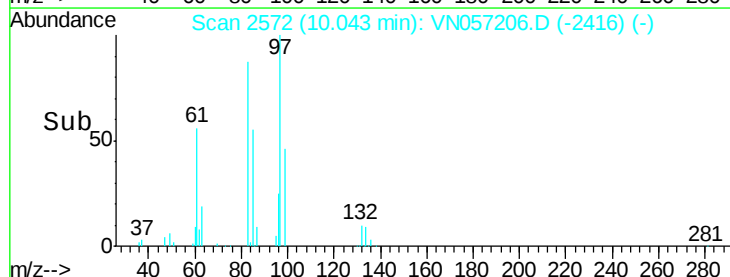
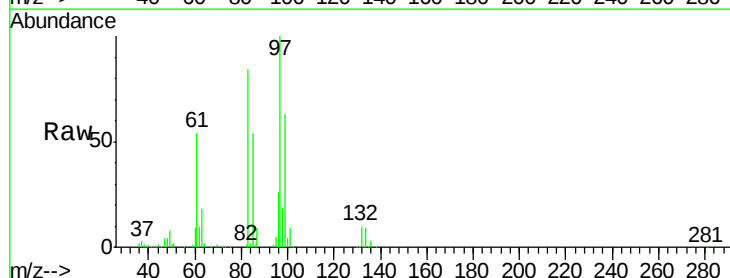
Manual Integrations
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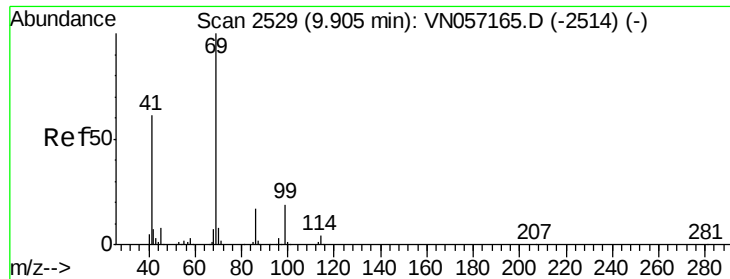
MMDadoda
 8/14/2019 9:23:32 AM



#50
 1,1,2-Trichloroethane
 Concen: 20.858 ug/l
 RT: 10.04 min Scan# 2572
 Delta R.T. 0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.1	71.4	107.0
85	53.6	43.8	65.8
99	63.0	51.0	76.6





#51

Ethyl methacrylate

Concen: 20.359 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

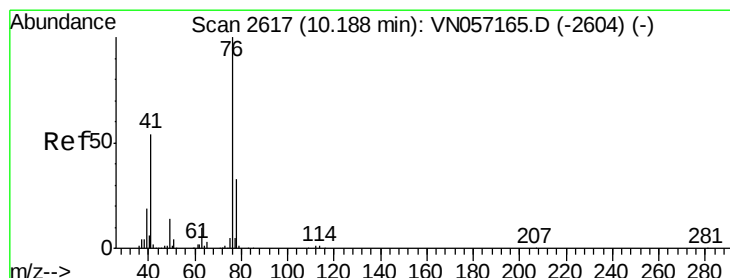
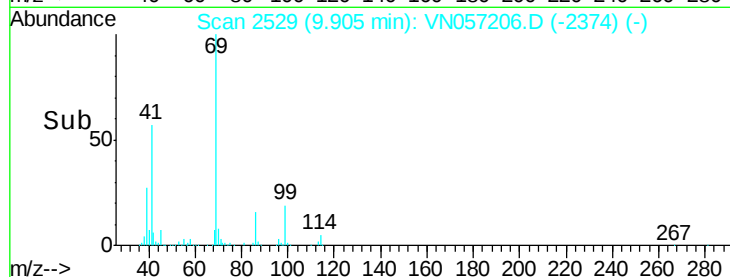
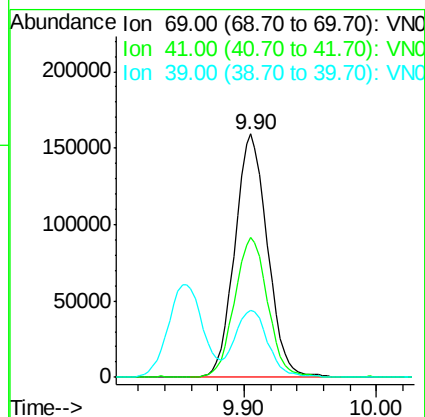
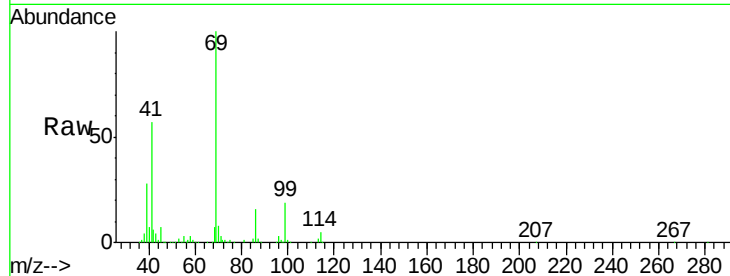
ClientSampleId :

VN0812WBS01

Tot Ion:	69	Resp:	272118
Ion Ratio	Lower	Upper	
69	100		
41	57.1	30.4	91.2
39	27.5	14.8	44.4

Manual Integrations
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8/14/2019 9:23:32 AM



#52

1,3-Dichloropropane

Concen: 20.410 ug/l

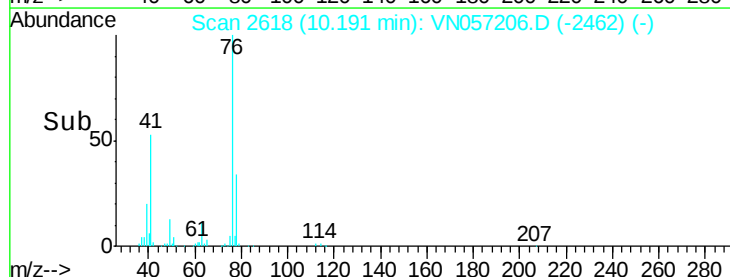
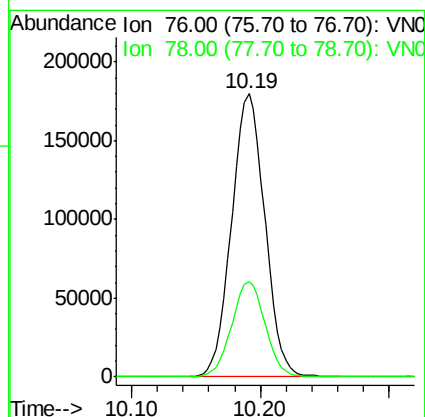
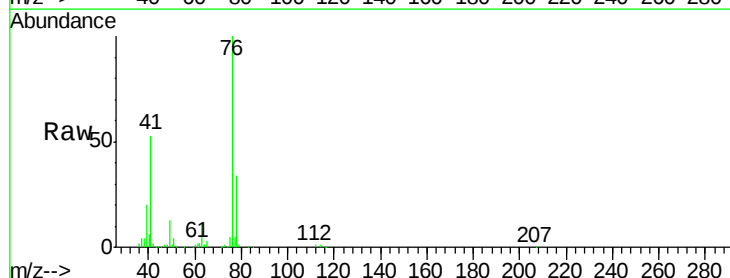
RT: 10.19 min Scan# 2618

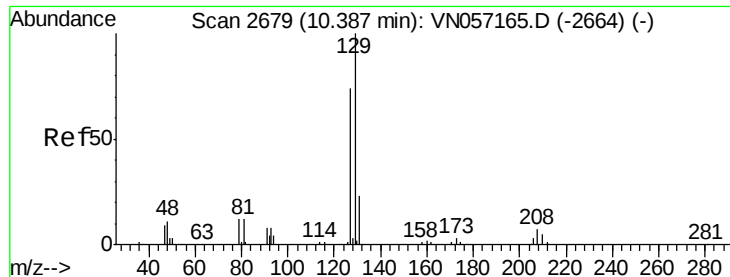
Delta R.T. 0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Tgt Ion:	76	Resp:	322207
Ion Ratio	Lower	Upper	
76	100		
78	34.0	0.0	65.0





#53

Dibromochloromethane

Concen: 20.408 ug/l

RT: 10.39 min Scan# 2680

Delta R.T. 0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

ClientSampleId :

VN0812WBS01

Tot Ion:129 Resp: 217797

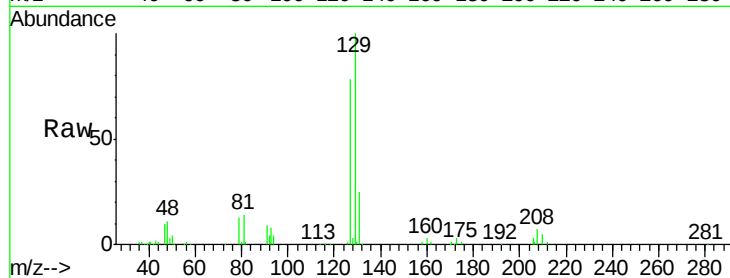
Ion Ratio Lower Upper

129 100

127 77.7 38.2 114.6

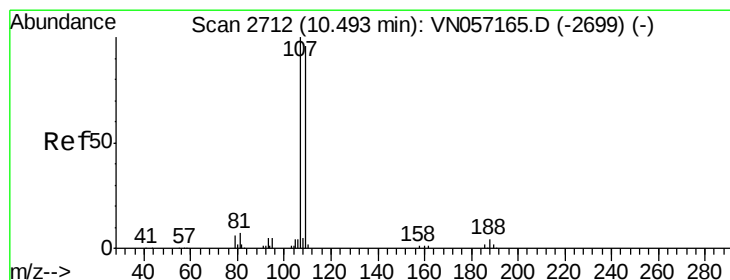
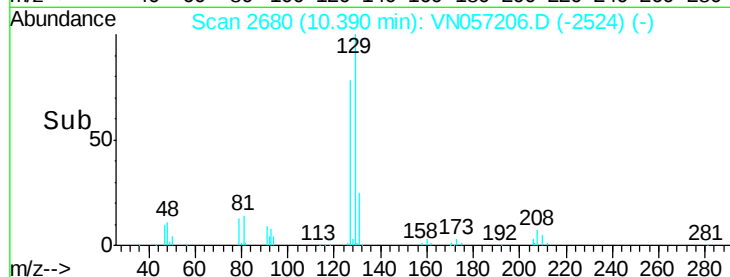
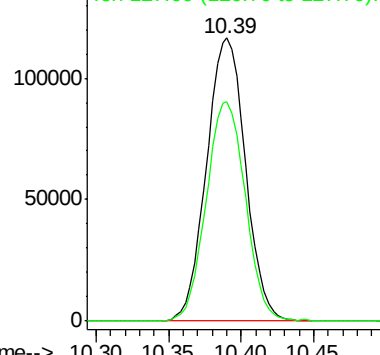
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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 20.789 ug/l

RT: 10.50 min Scan# 2713

Delta R.T. 0.00 min

Lab File: VN057206.D

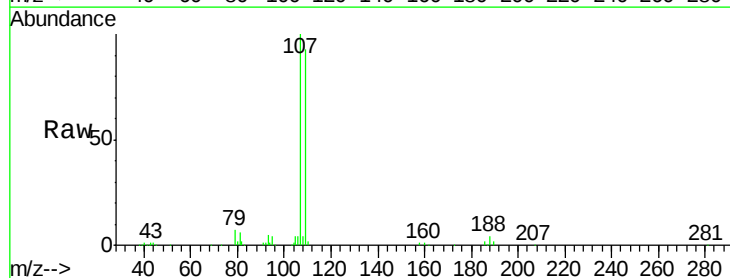
Acq: 12 Aug 2019 10:58

Tgt Ion:107 Resp: 205538

Ion Ratio Lower Upper

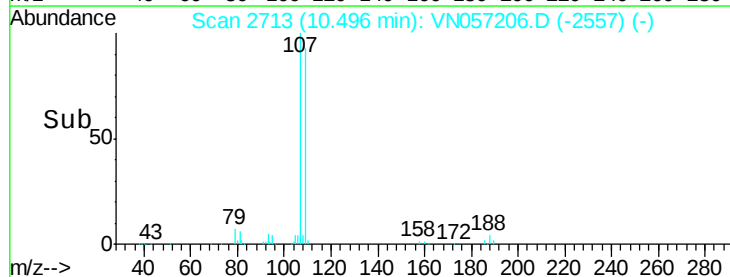
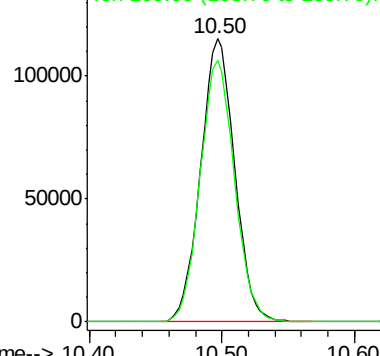
107 100

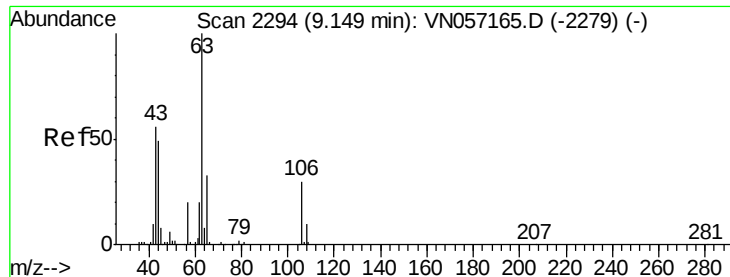
109 93.5 76.8 115.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

2-Chloroethyl vinyl ether

Concen: 86.719 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

ClientSampleId :

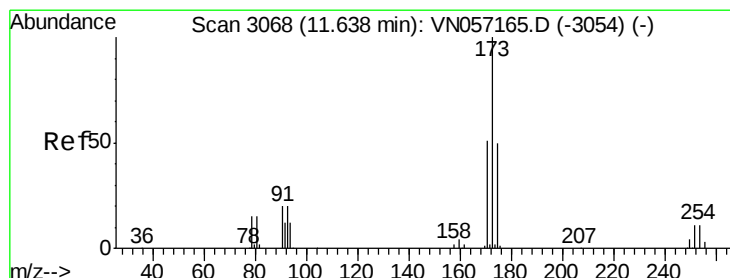
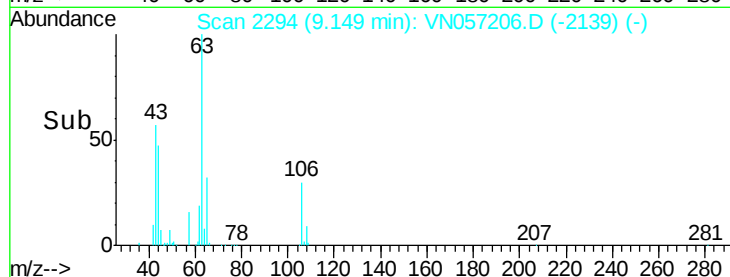
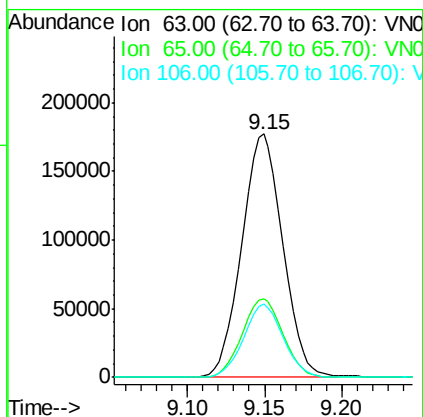
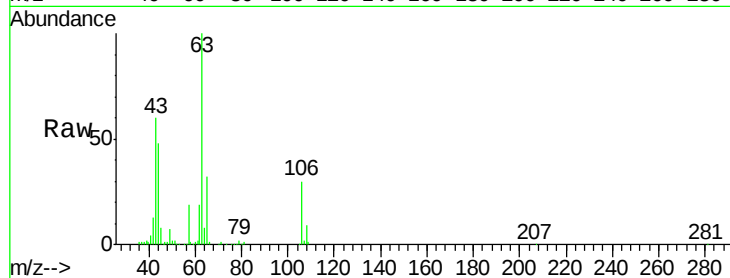
VN0812WBS01

Tot Ion: 63 Resp: 327270

Ion	Ratio	Lower	Upper
63	100		
65	32.1	26.0	39.0
106	29.1	23.3	34.9

Manual Integrations
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#56

Bromoform

Concen: 19.594 ug/l

RT: 11.64 min Scan# 3068

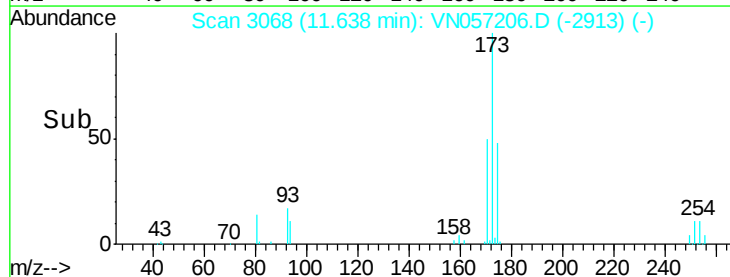
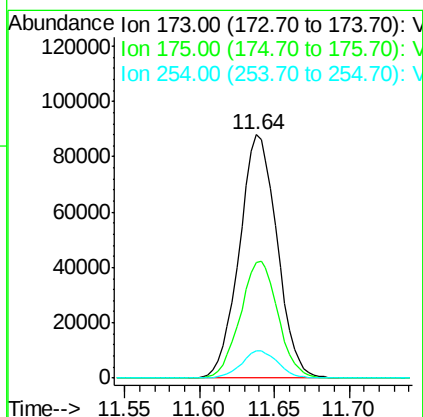
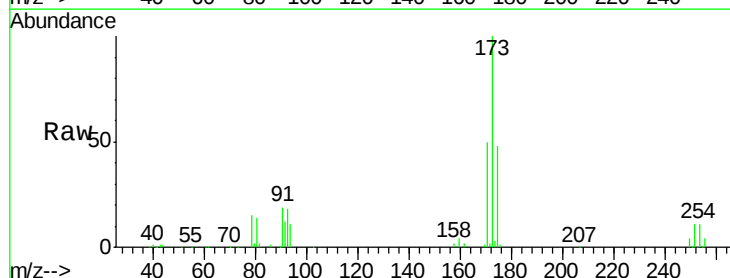
Delta R.T. -0.00 min

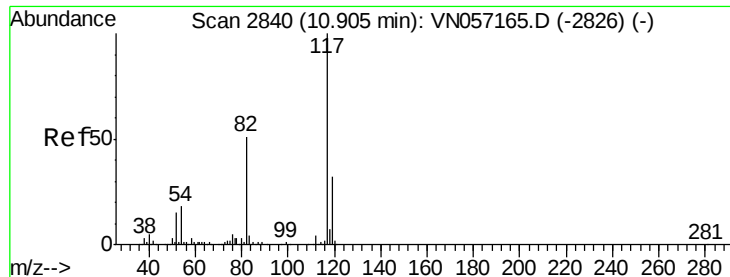
Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Tgt Ion: 173 Resp: 154529

Ion	Ratio	Lower	Upper
173	100		
175	47.8	39.0	58.4
254	10.8	8.6	13.0





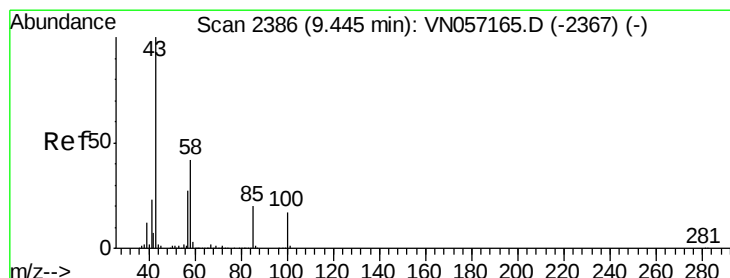
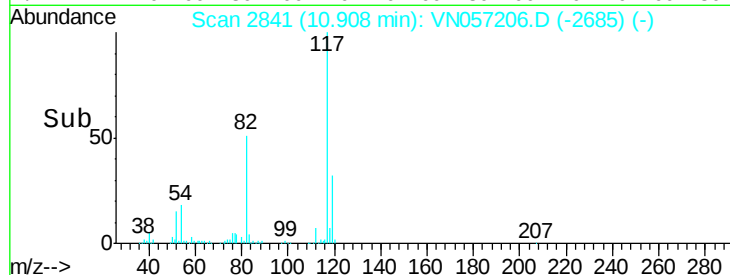
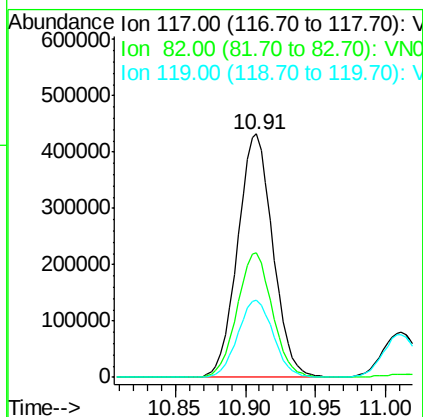
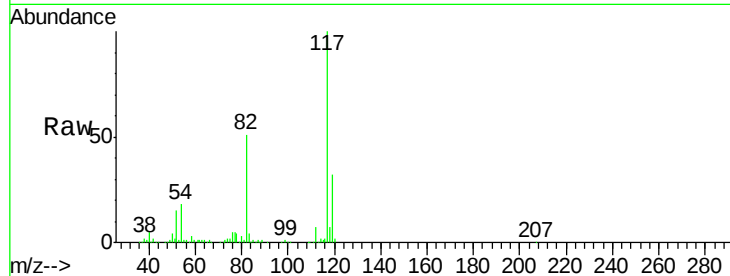
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.91 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	755440		
82	51.1		41.5	62.3
119	32.0		26.1	39.1

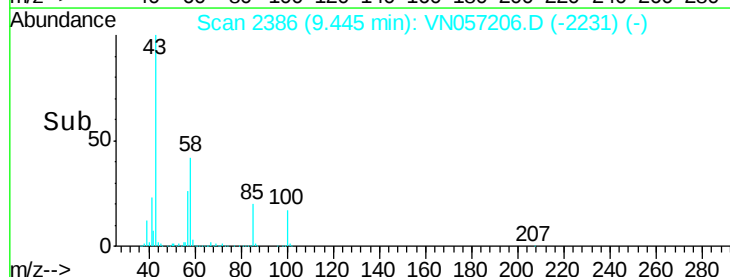
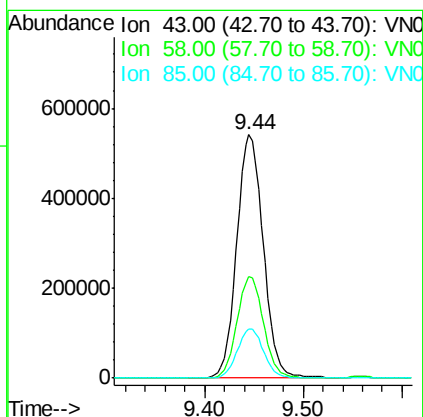
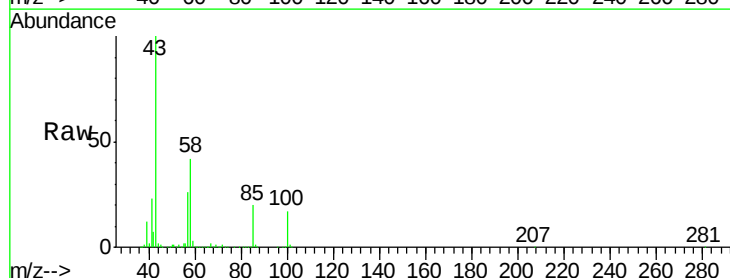
Manual Integrations
APPROVED

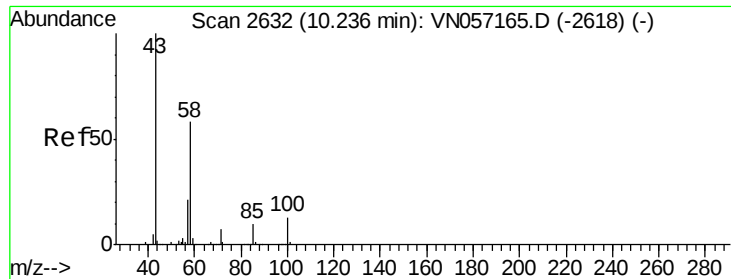
MMDadoda
8/14/2019 9:23:32 AM



#58
4-Methyl-2-Pentanone
Concen: 103.847 ug/l
RT: 9.44 min Scan# 2386
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	1007807		
58	41.6		32.8	49.2
85	20.2		16.4	24.6





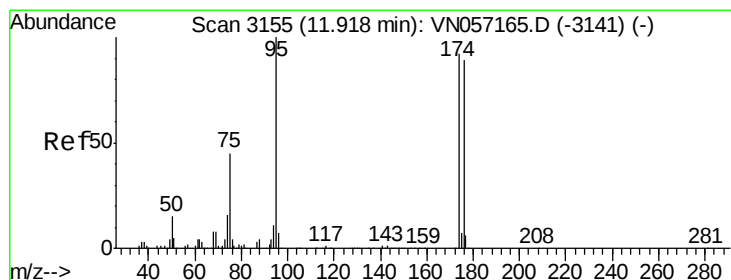
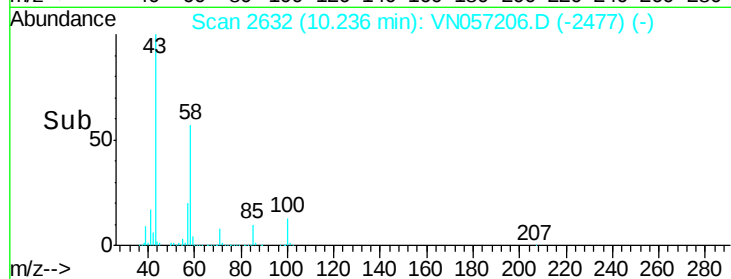
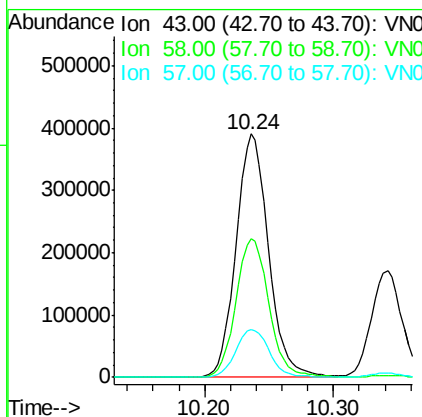
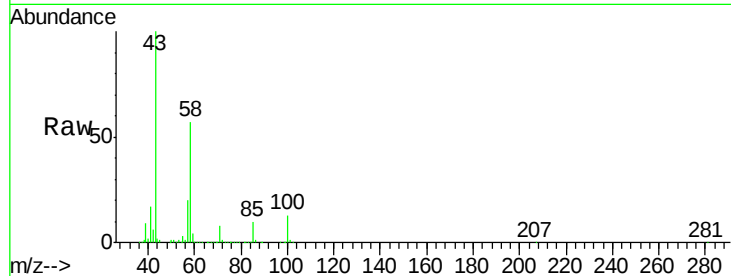
#59
2-Hexanone
Concen: 97.679 ug/l
RT: 10.24 min Scan# 2632
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	58.2	45.4	68.2
57	20.5	16.1	24.1

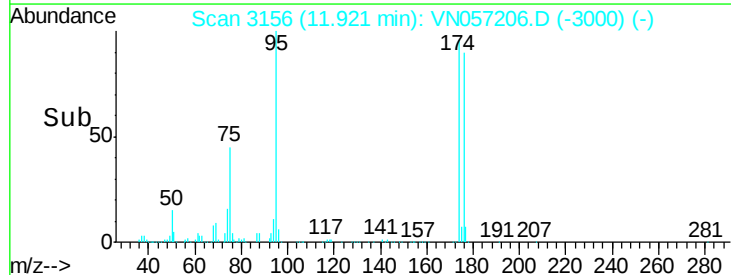
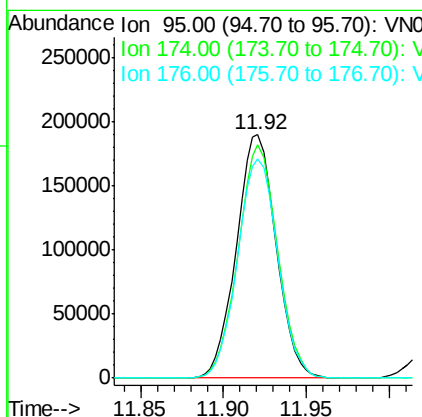
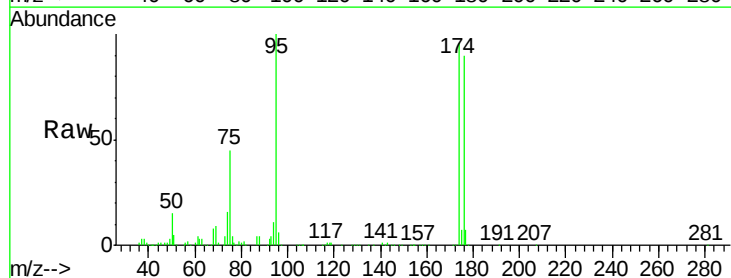
Manual Integrations
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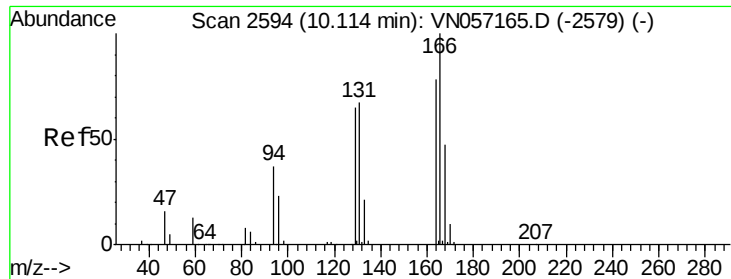
MMDadoda
8/14/2019 9:23:32 AM



#60
4-Bromofluorobenzene
Concen: 28.231 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
95	100		
174	95.0	74.9	112.3
176	91.3	72.1	108.1





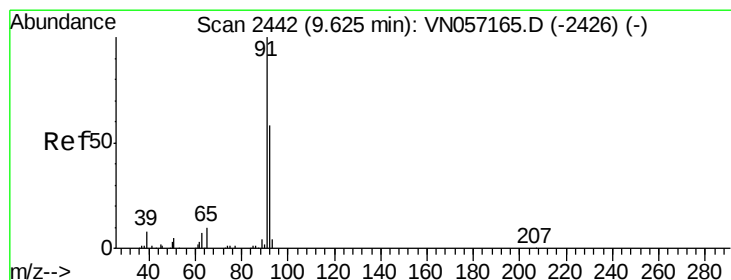
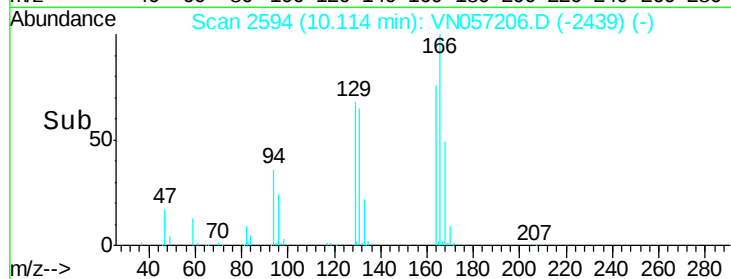
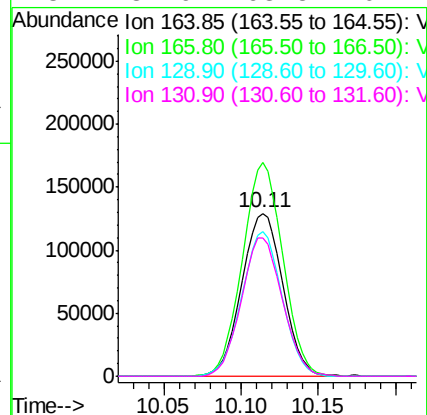
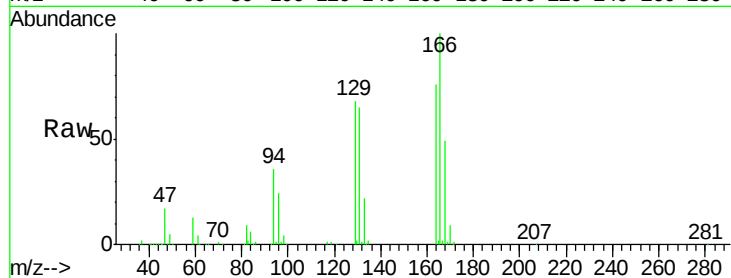
#61
Tetrachloroethene
Concen: 20.650 ug/l
RT: 10.11 min Scan# 2594
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Tot Ion	Ratio	Lower	Upper
164	100		
166	130.6	103.0	154.6
129	88.7	67.3	100.9
131	84.9	68.5	102.7

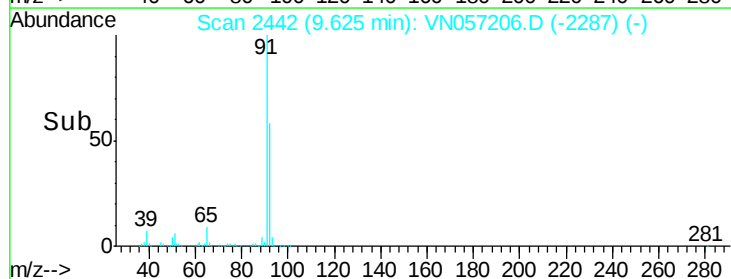
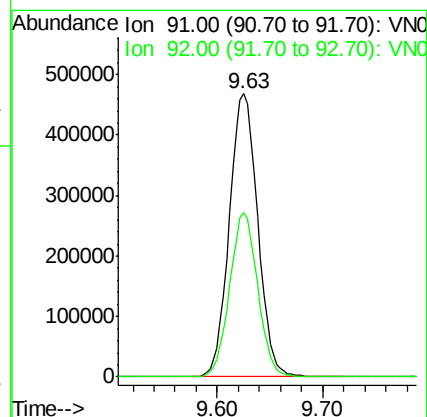
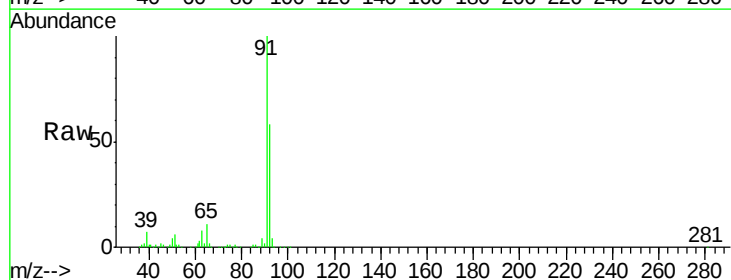
Manual Integrations
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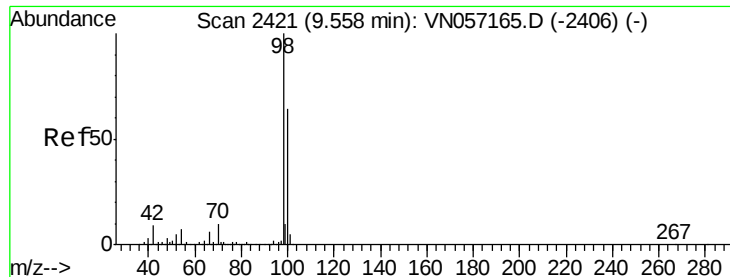
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#62
Toluene
Concen: 20.272 ug/l
RT: 9.63 min Scan# 2442
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.3	46.1	69.1





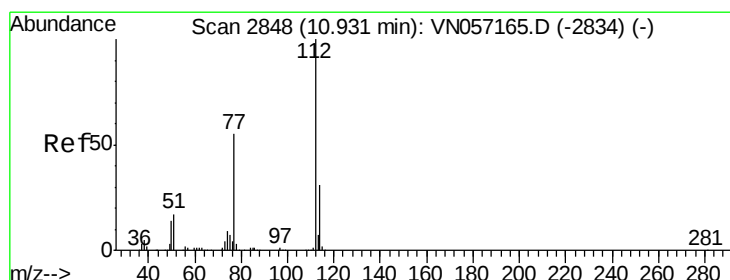
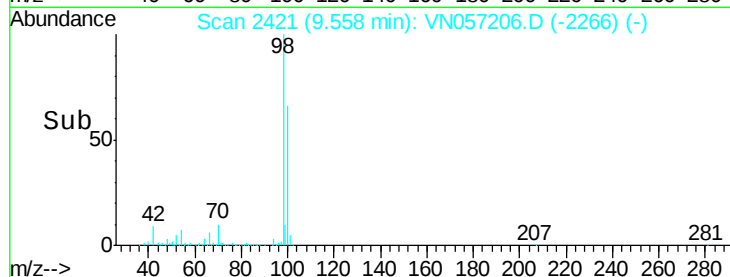
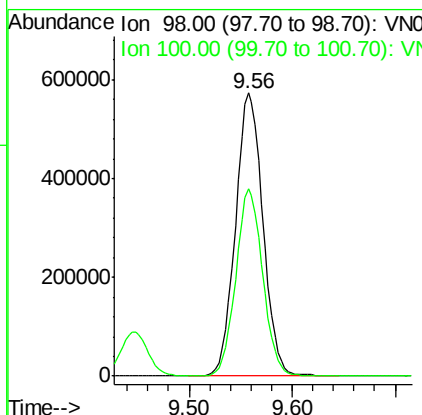
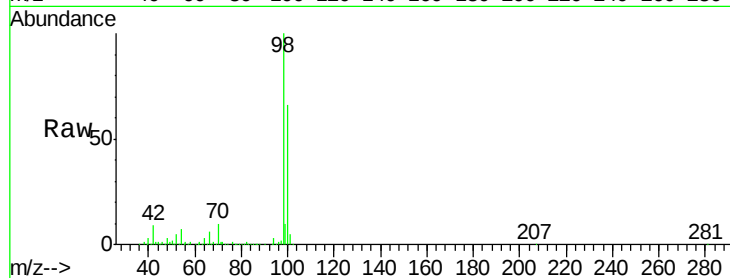
#63
Toluene-d8
Concen: 30.423 ug/l
RT: 9.56 min Scan# 2421
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Tot Ion: 98 Resp: 1060936
Ion Ratio Lower Upper
98 100
100 64.4 52.4 78.6

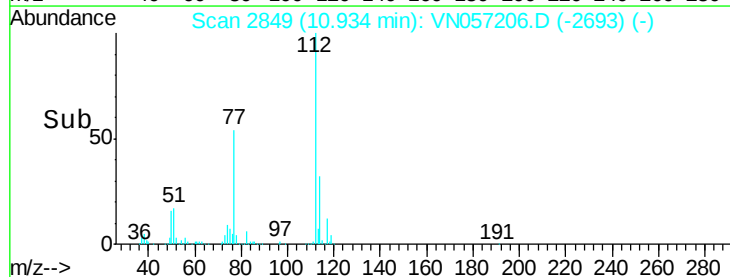
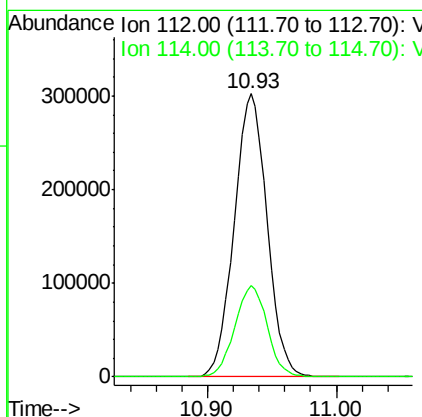
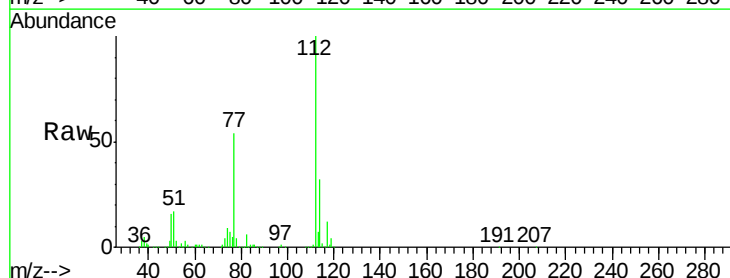
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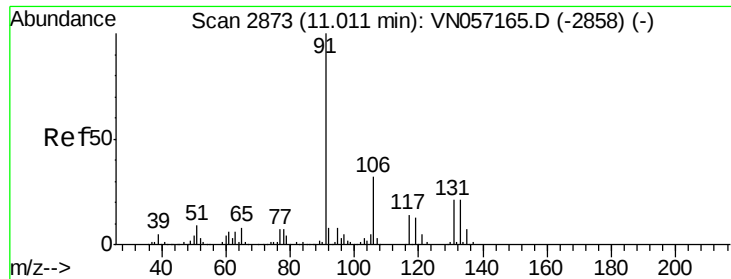
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#64
Chlorobenzene
Concen: 20.213 ug/l
RT: 10.93 min Scan# 2849
Delta R.T. 0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Tgt Ion: 112 Resp: 534587
Ion Ratio Lower Upper
112 100
114 32.1 25.0 37.6





#65

1,1,1,2-Tetrachloroethane

Concen: 20.171 ug/l

RT: 11.01 min Scan# 2873

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

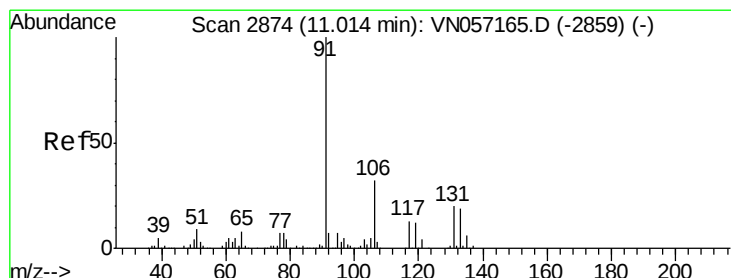
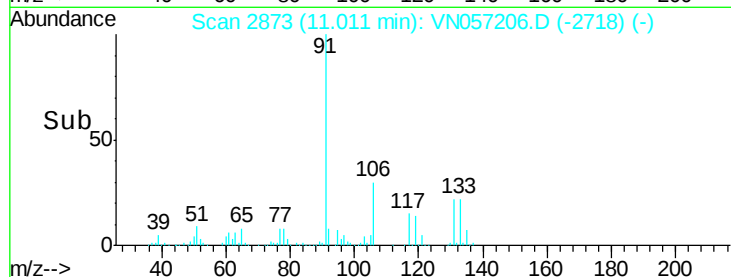
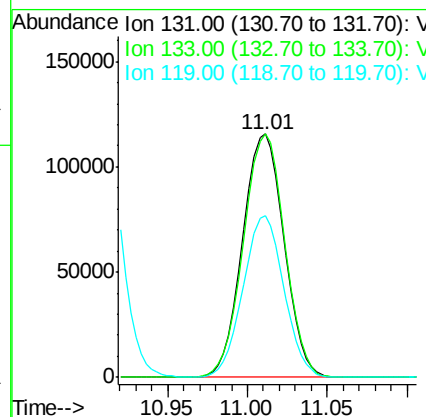
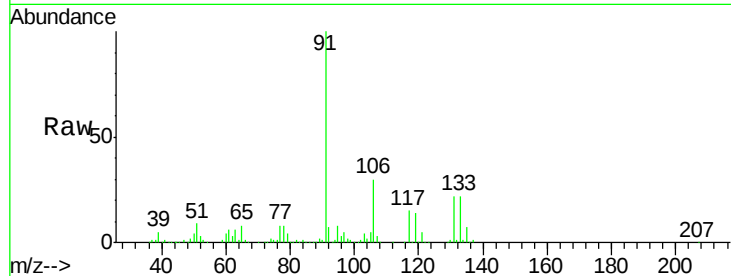
ClientSampleId :

VN0812WBS01

Tot Ion:	131	Resp:	204574
Ion Ratio	Lower	Upper	
131	100		
133	99.6	0.0	196.0
119	65.3	0.0	132.6

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#66

Ethyl Benzene

Concen: 20.155 ug/l

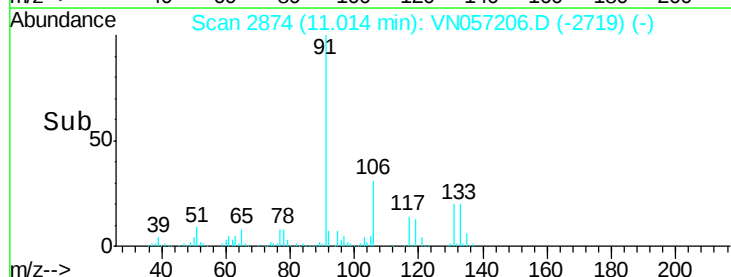
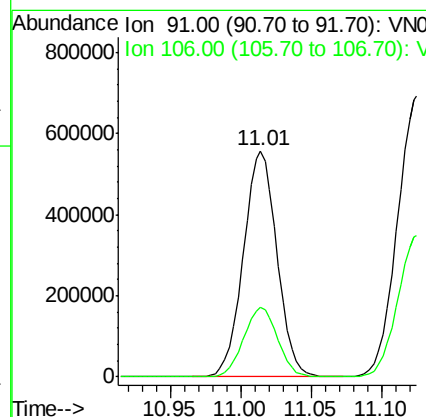
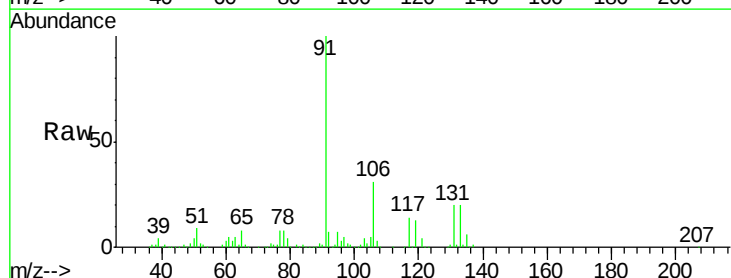
RT: 11.01 min Scan# 2874

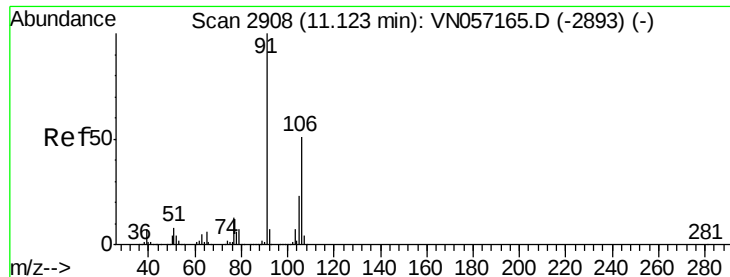
Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Tgt Ion:	91	Resp:	929014
Ion Ratio	Lower	Upper	
91	100		
106	30.8	25.3	37.9





#67

m/p-Xylenes

Concen: 40.100 ug/l

RT: 11.13 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

ClientSampleId :

VN0812WBS01

Tot Ion:106 Resp: 697023

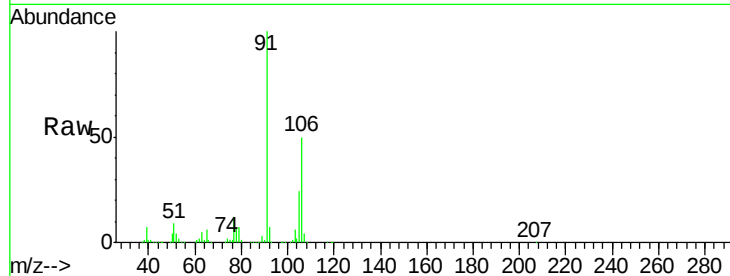
Ion Ratio Lower Upper

106 100

91 199.5 160.5 240.7

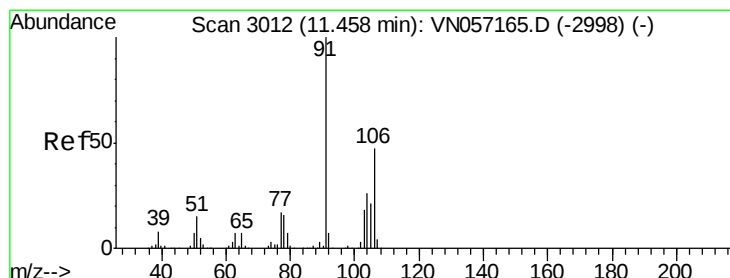
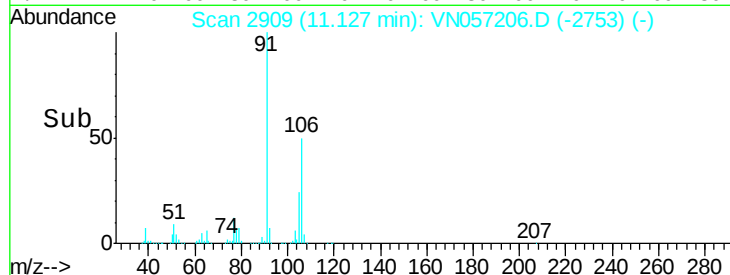
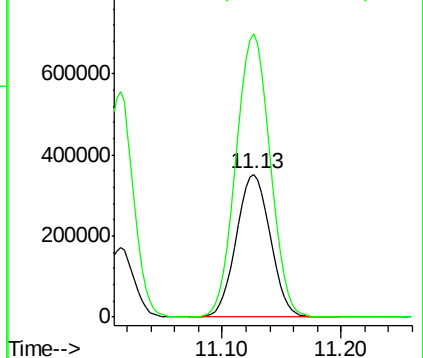
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#68

o-Xylene

Concen: 20.071 ug/l

RT: 11.46 min Scan# 3012

Delta R.T. -0.00 min

Lab File: VN057206.D

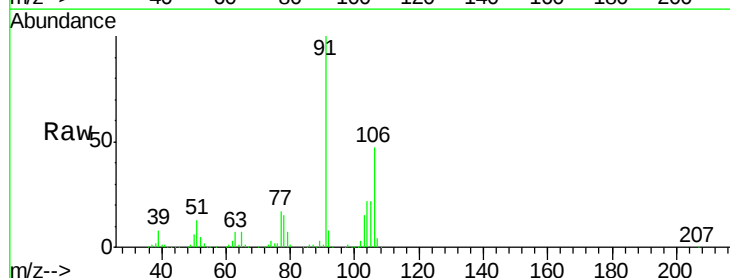
Acq: 12 Aug 2019 10:58

Tgt Ion:106 Resp: 338716

Ion Ratio Lower Upper

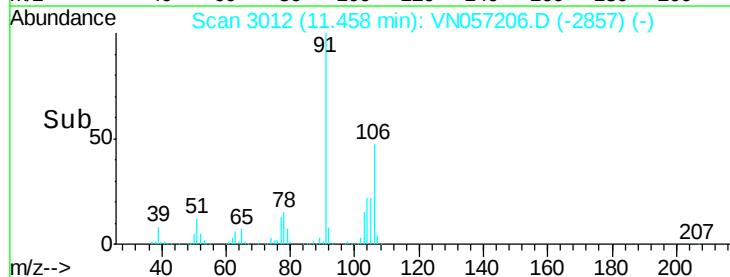
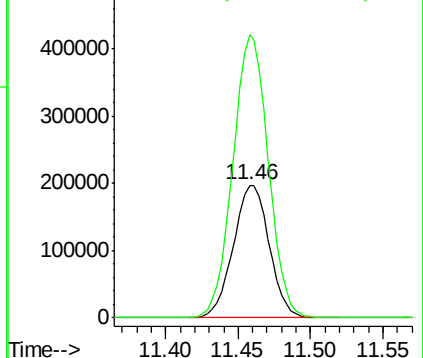
106 100

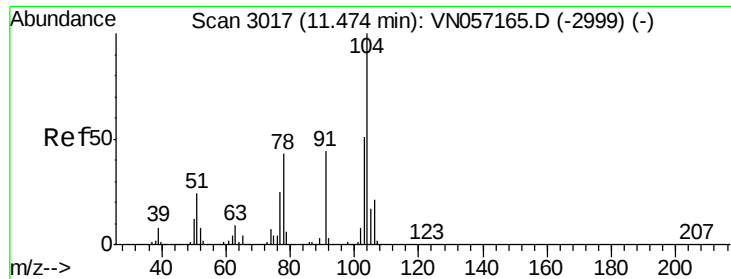
91 210.7 105.3 315.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





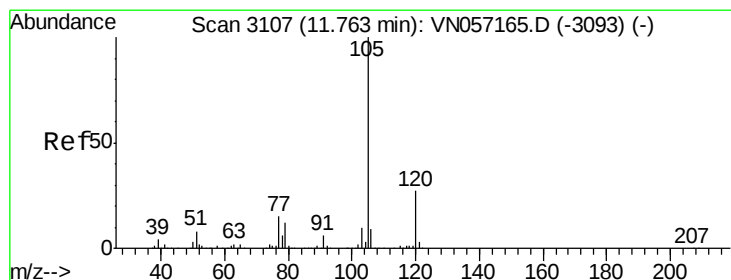
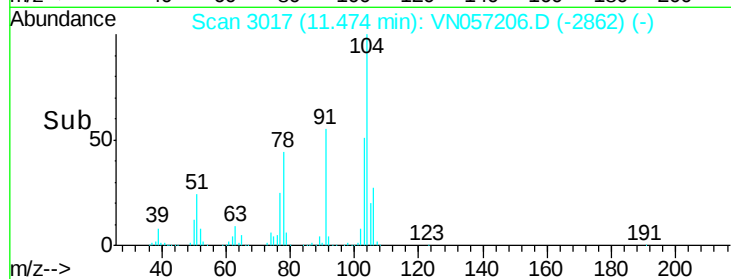
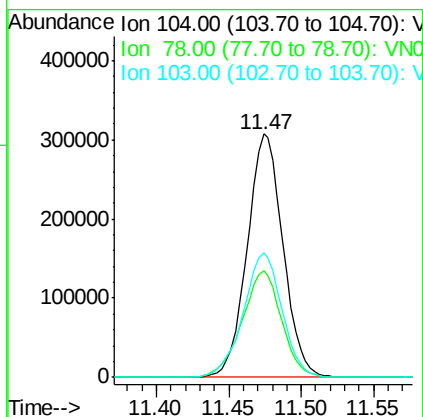
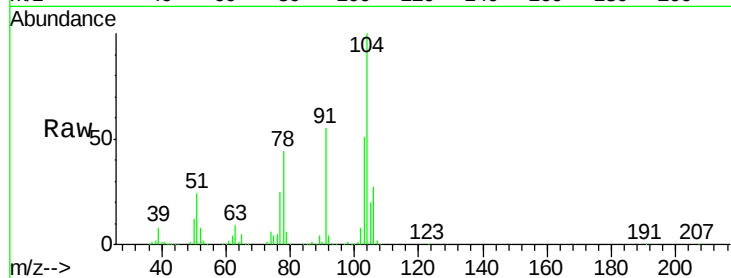
#69
Stvrene
Concen: 19.532 ug/l
RT: 11.47 min Scan# 3017
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	48.1	38.7	58.1
103	55.1	44.3	66.5

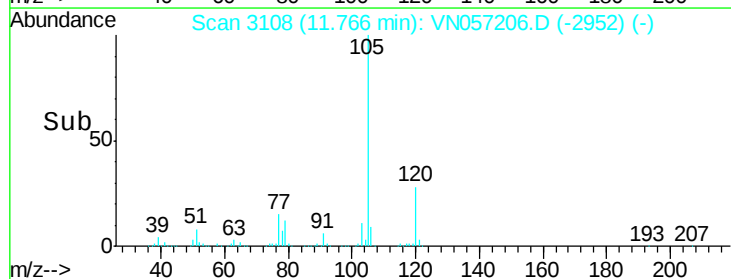
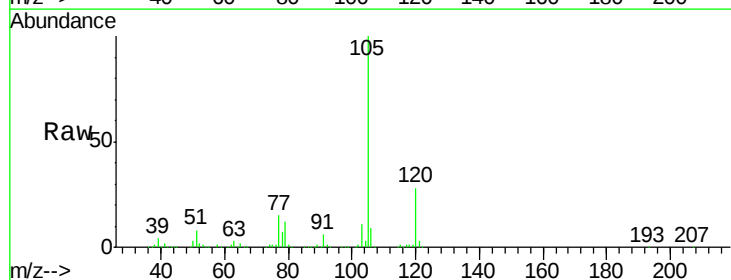
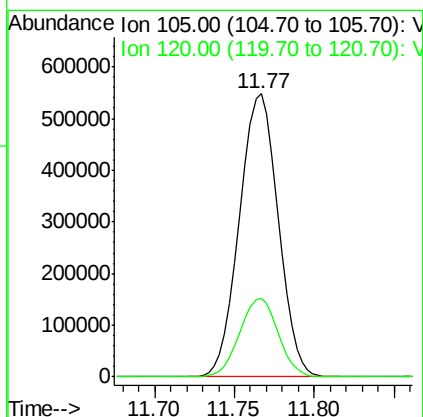
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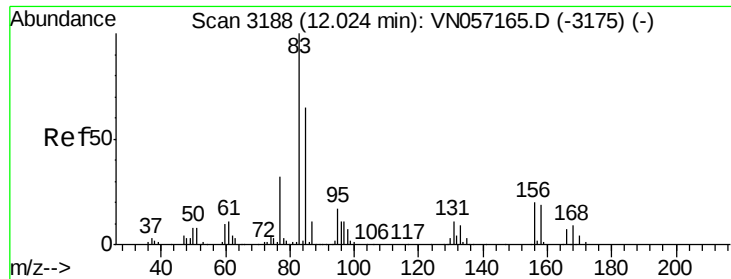
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#70
Isopropylbenzene
Concen: 19.957 ug/l
RT: 11.77 min Scan# 3108
Delta R.T. 0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.5	19.1	35.5





#71

1,1,2,2-Tetrachloroethane

Concen: 20.501 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

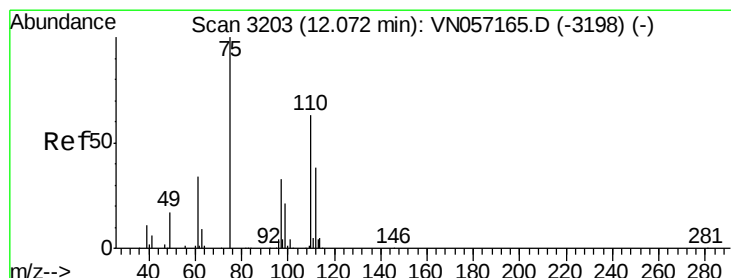
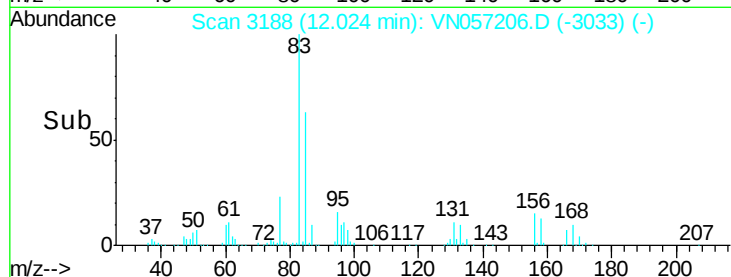
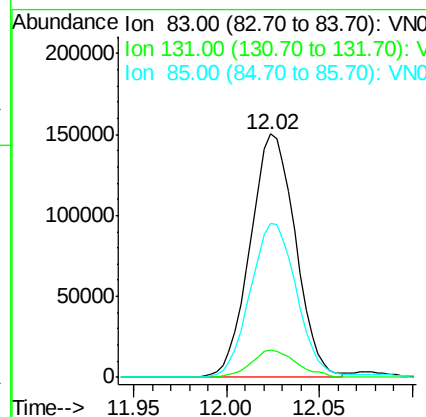
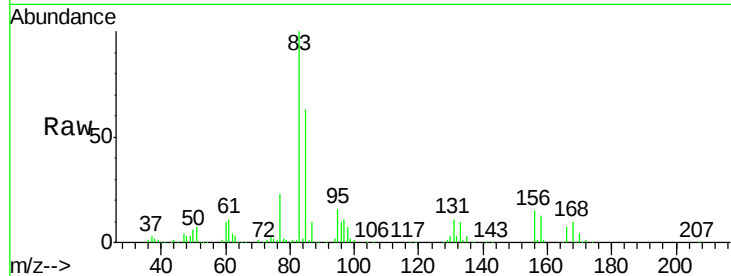
ClientSampleId :

VN0812WBS01

Tot Ion:	83	Resp:	255109
Ion Ratio	Lower	Upper	
83	100		
131	11.4	5.5	16.5
85	64.6	32.6	98.0

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#72

1,2,3-Trichloropropane

Concen: 20.746 ug/l m

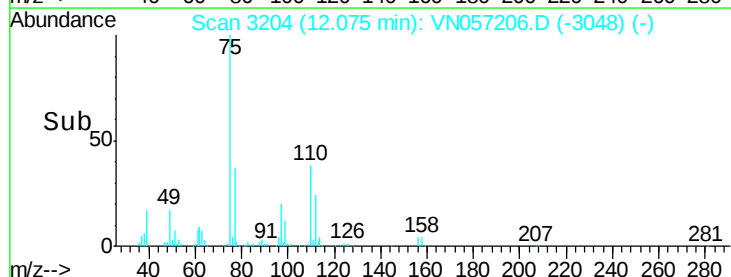
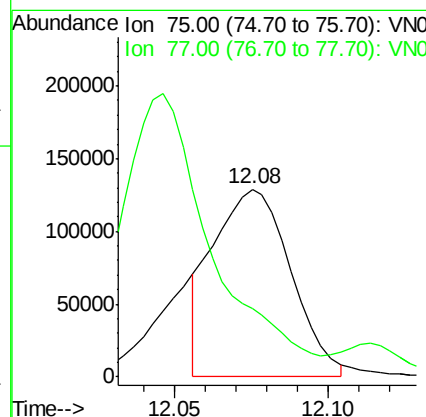
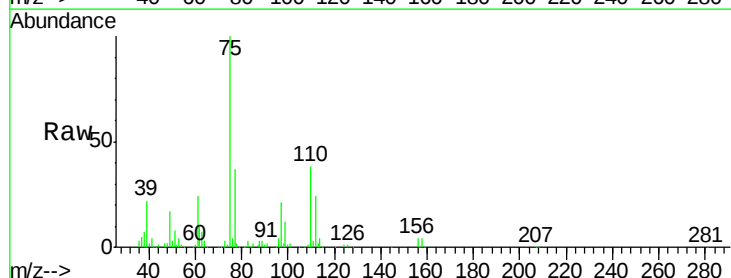
RT: 12.08 min Scan# 3204

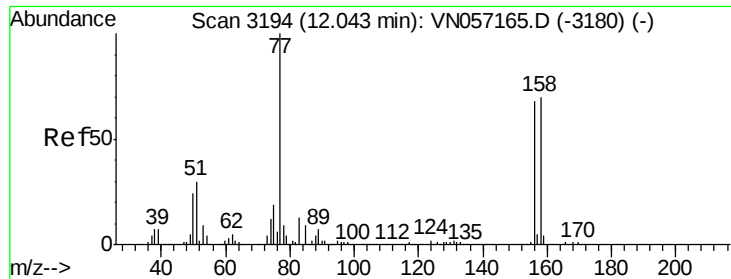
Delta R.T. 0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Tgt Ion:	75	Resp:	225950
Ion Ratio	Lower	Upper	
75	100		
77	178.9	0.0	379.4





#73

Bromobenzene

Concen: 19.419 ug/l

RT: 12.05 min Scan# 3195

Delta R.T. 0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

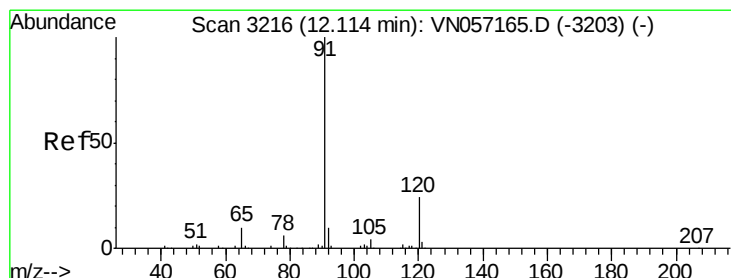
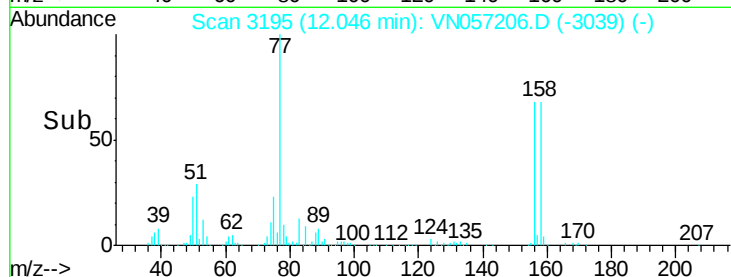
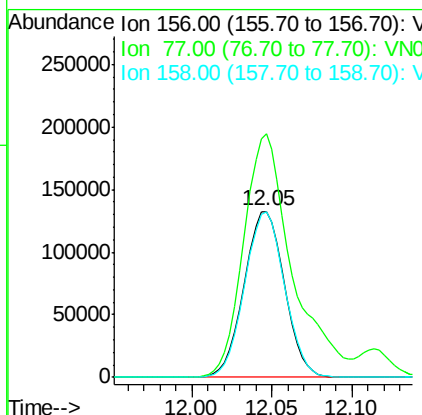
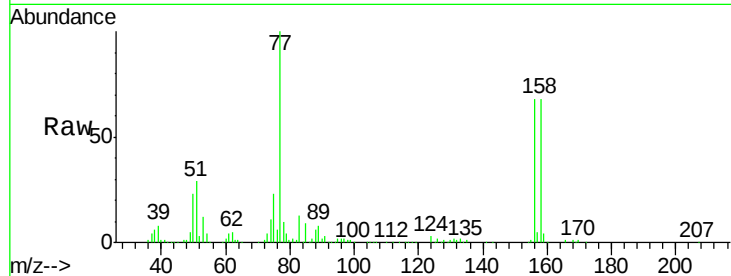
ClientSampled :

VN0812WBS01

Tot Ion:	156	Resp:	228786
Ion Ratio	Lower	Upper	
156	100		
77	176.7	0.0	361.6
158	98.7	0.0	200.6

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#74

n-propylbenzene

Concen: 18.919 ug/l

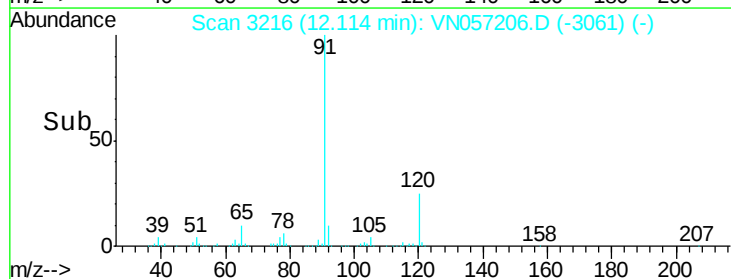
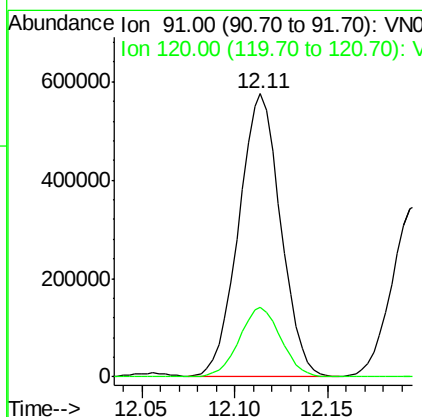
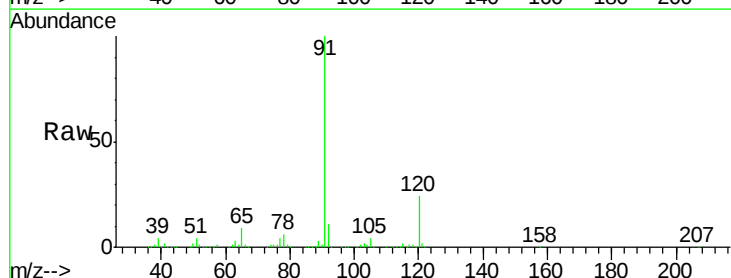
RT: 12.11 min Scan# 3216

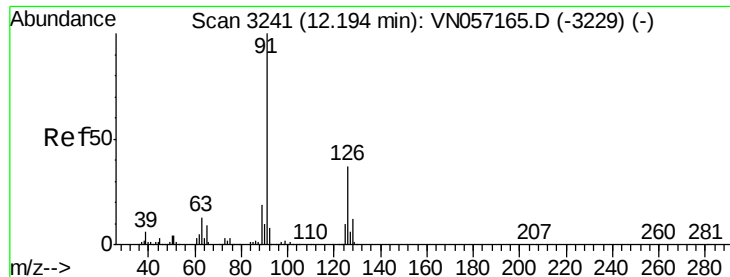
Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Tgt Ion:	91	Resp:	902387
Ion Ratio	Lower	Upper	
91	100		
120	24.5	0.0	48.2





#75

2-Chlorotoluene

Concen: 19.650 ug/l

RT: 12.20 min Scan# 3242

Delta R.T. 0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

ClientSampleId :

VN0812WBS01

Tot Ion: 91 Resp: 579705

Ion Ratio Lower Upper

91 100

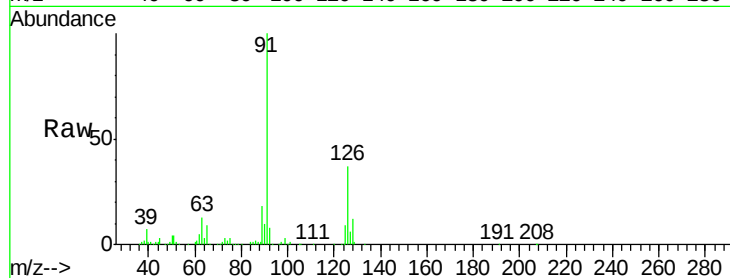
126 36.1 0.0 73.4

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN057165.D (-3229) (-)

Ion 126.00 (125.70 to 126.70): VN057165.D (-3229) (-)

600000

500000

400000

300000

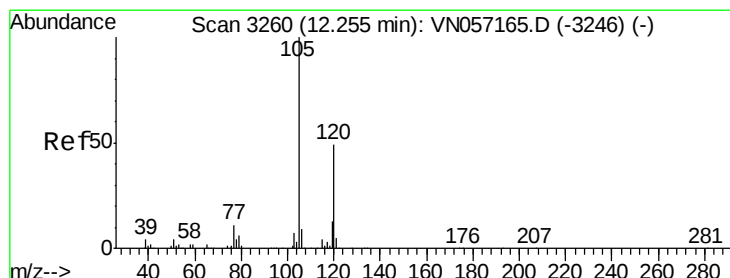
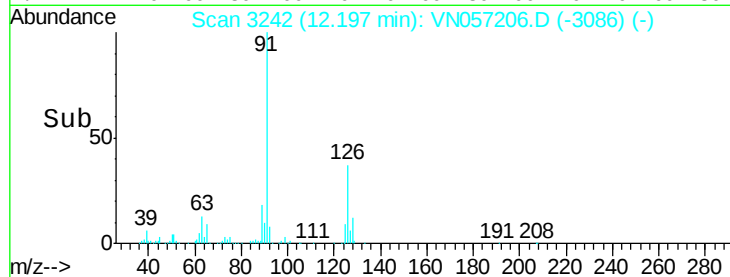
200000

100000

0

12.15 12.20 12.25

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 19.743 ug/l

RT: 12.26 min Scan# 3261

Delta R.T. 0.00 min

Lab File: VN057206.D

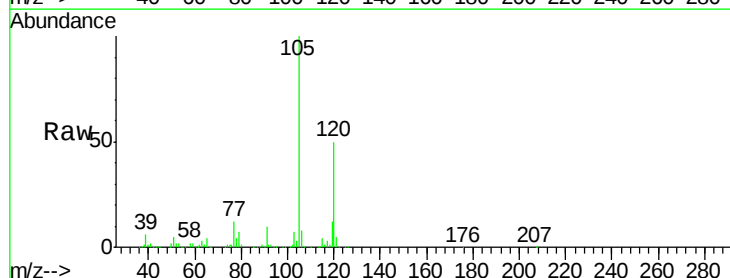
Acq: 12 Aug 2019 10:58

Tgt Ion: 105 Resp: 755302

Ion Ratio Lower Upper

105 100

120 50.3 0.0 83.6



Abundance Ion 105.00 (104.70 to 105.70): VN057165.D (-3246) (-)

Ion 120.00 (119.70 to 120.70): VN057165.D (-3246) (-)

500000

400000

300000

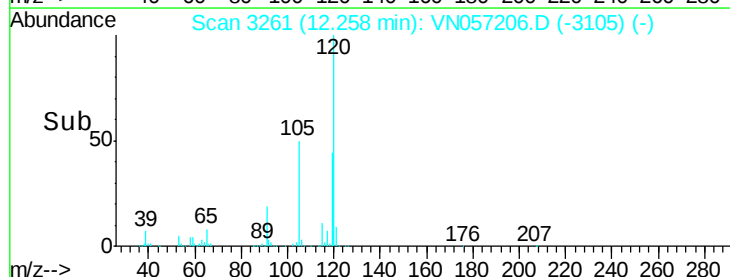
200000

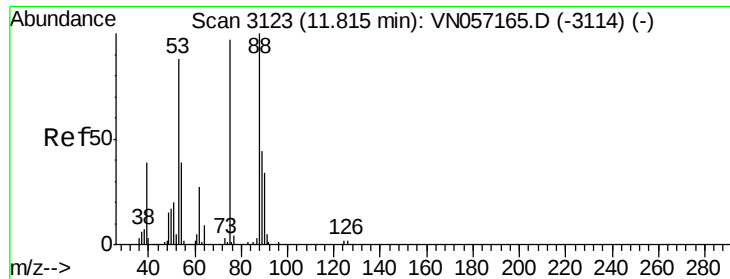
100000

0

12.15 12.20 12.25 12.30

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 19.067 ug/l

RT: 11.82 min Scan# 3124

Delta R.T. 0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

ClientSampleId :

VN0812WBS01

Tot Ion: 75 Resp: 69886

Ion Ratio Lower Upper

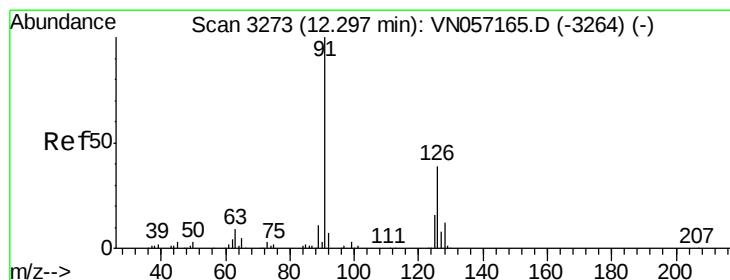
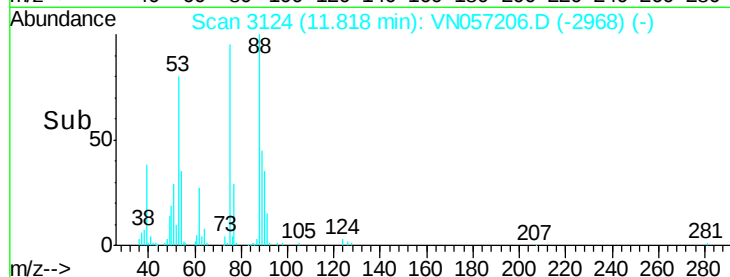
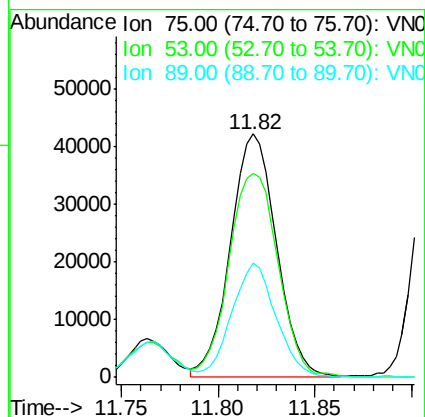
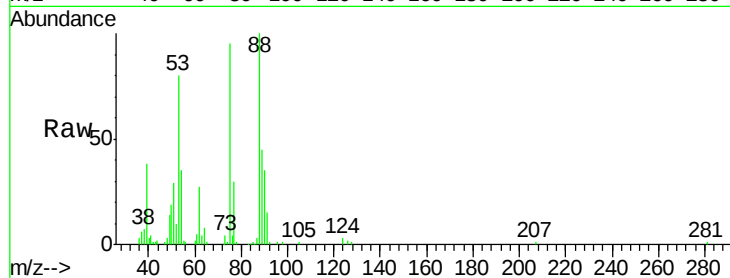
75 100

53 83.5 45.4 136.2

89 47.2 23.5 70.6

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#78

4-Chlorotoluene

Concen: 18.531 ug/l

RT: 12.30 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VN057206.D

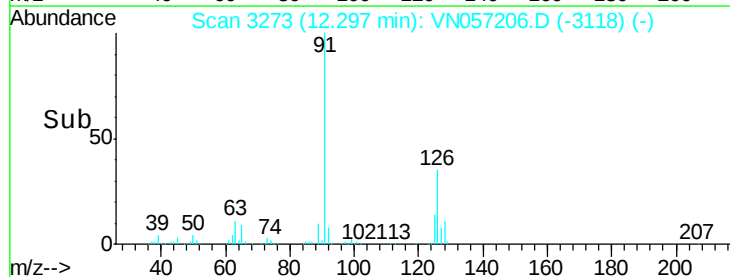
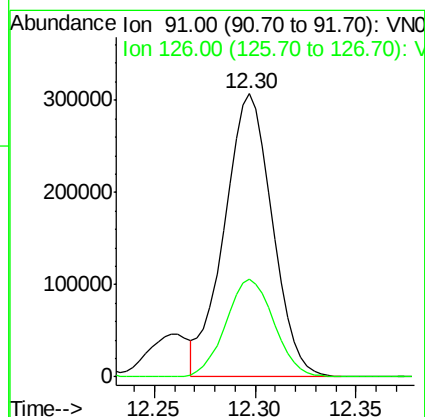
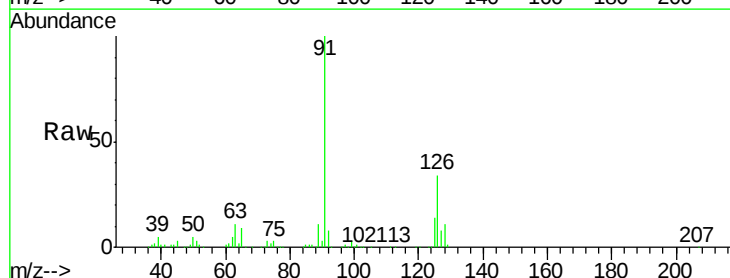
Acq: 12 Aug 2019 10:58

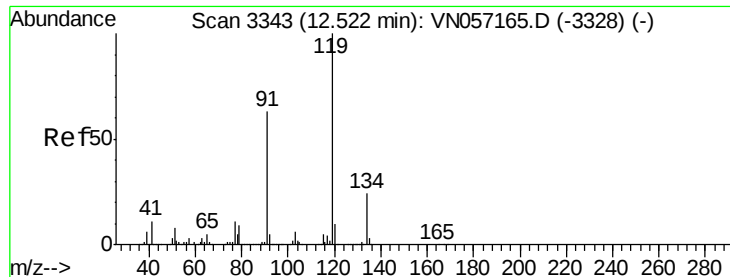
Tgt Ion: 91 Resp: 507733

Ion Ratio Lower Upper

91 100

126 35.0 0.0 70.2





#79

tert-butylbenzene

Concen: 19.962 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Instrument :

MSVOA_N

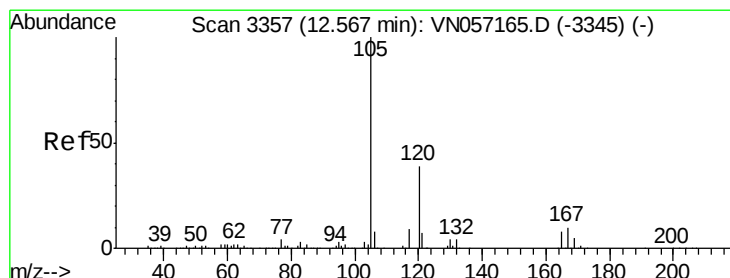
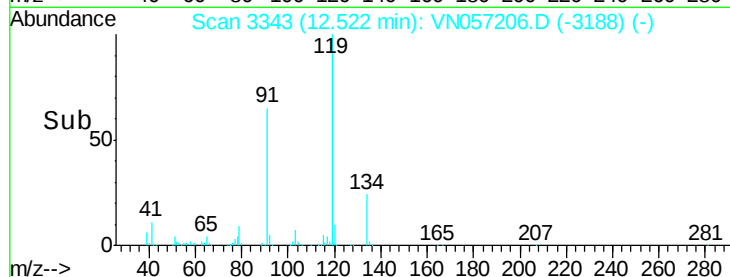
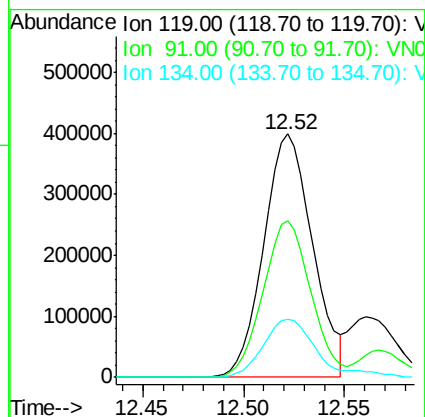
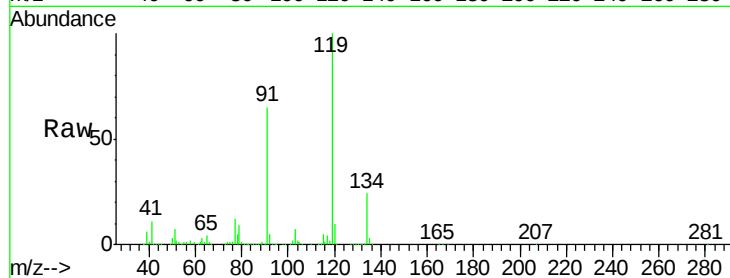
ClientSampleId :

VN0812WBS01

Tot Ion:	119	Resp:	673092
Ion Ratio	Lower	Upper	
119	100		
91	63.0	0.0	123.8
134	24.0	0.0	48.6

Manual Integrations
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#80

1,2,4-Trimethylbenzene

Concen: 19.409 ug/l

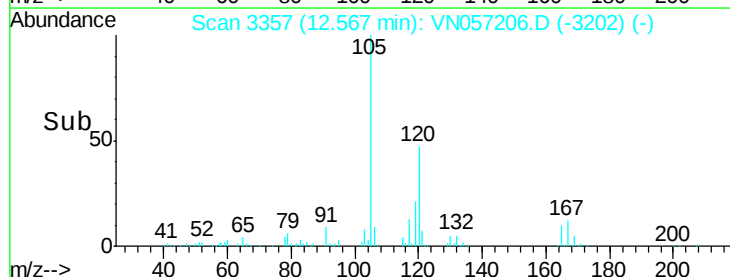
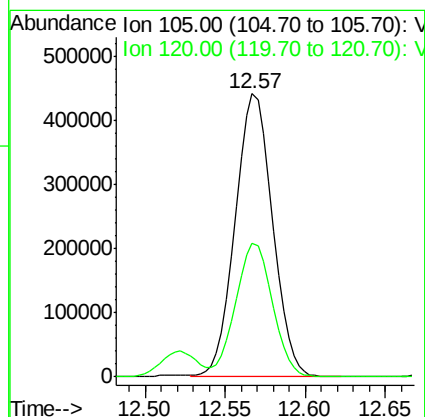
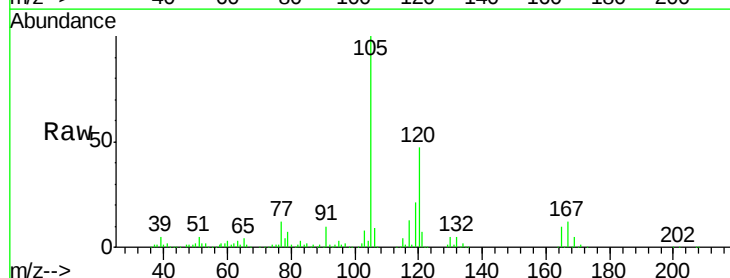
RT: 12.57 min Scan# 3357

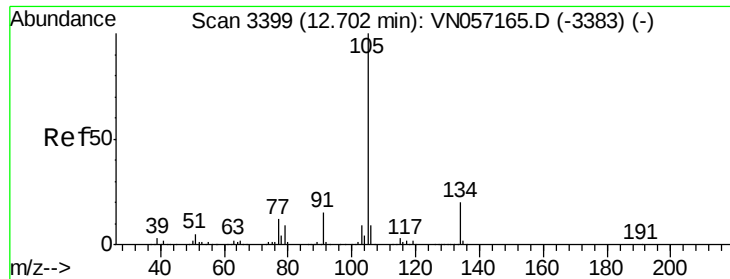
Delta R.T. -0.00 min

Lab File: VN057206.D

Acq: 12 Aug 2019 10:58

Tgt Ion:	105	Resp:	700248
Ion Ratio	Lower	Upper	
105	100		
120	46.5	0.0	91.2





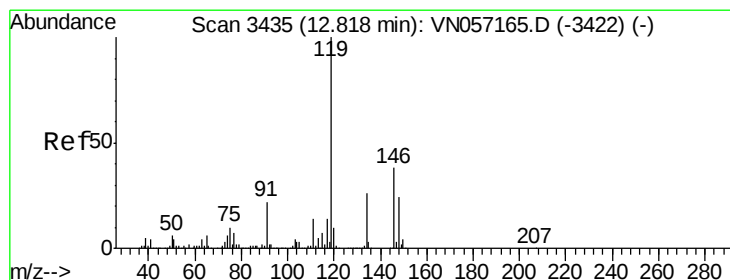
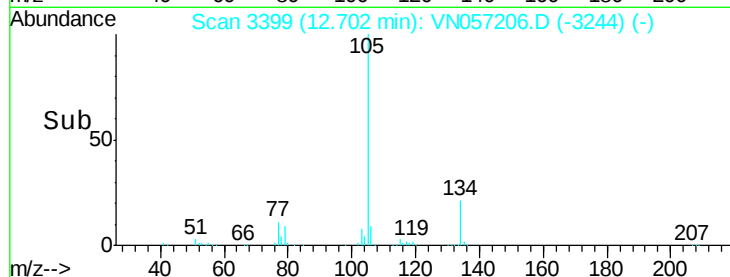
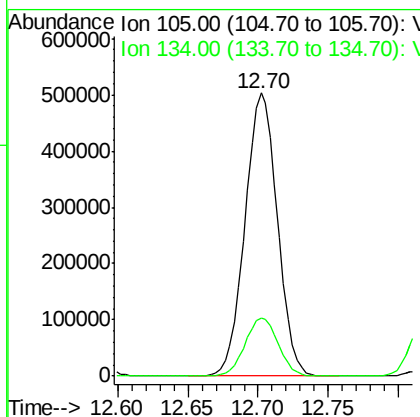
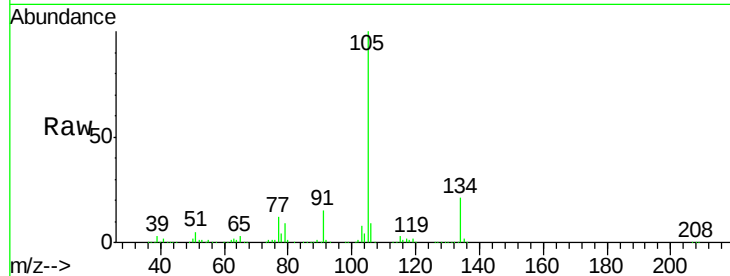
#81
 sec-Butylbenzene
 Concen: 19.047 ug/l
 RT: 12.70 min Scan# 3399
 Delta R.T. -0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0812WBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	809772		
134	20.9	0.0	40.6	

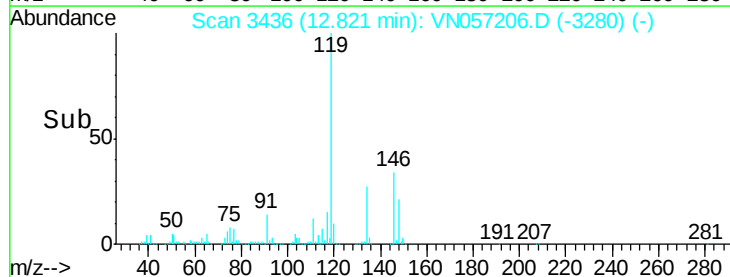
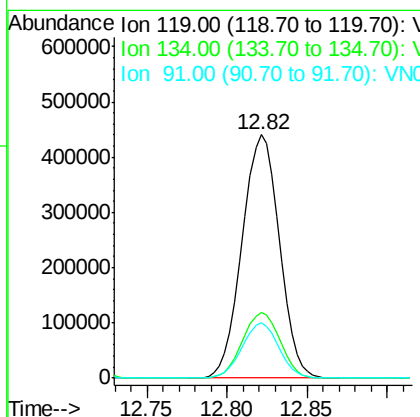
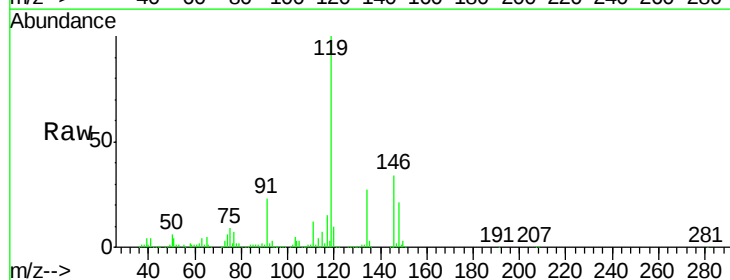
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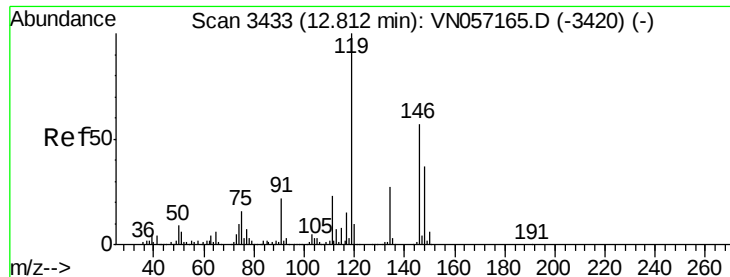
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#82
 p-Isopropyltoluene
 Concen: 18.431 ug/l
 RT: 12.82 min Scan# 3436
 Delta R.T. 0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	697744		
134	27.2	0.0	54.2	
91	22.2	0.0	44.4	





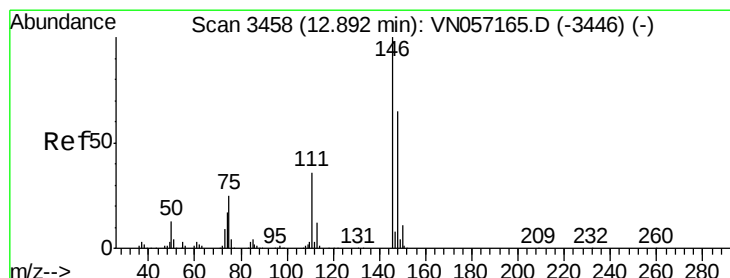
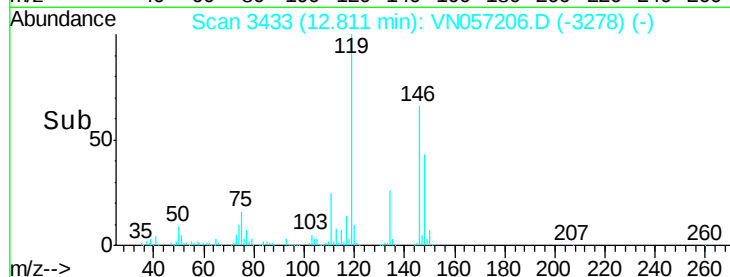
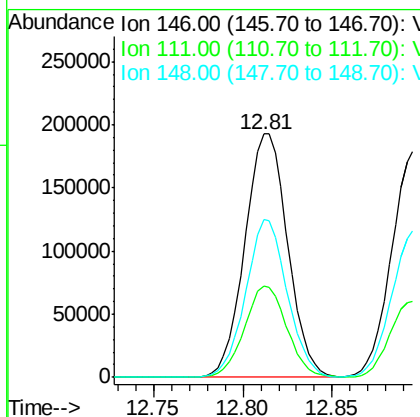
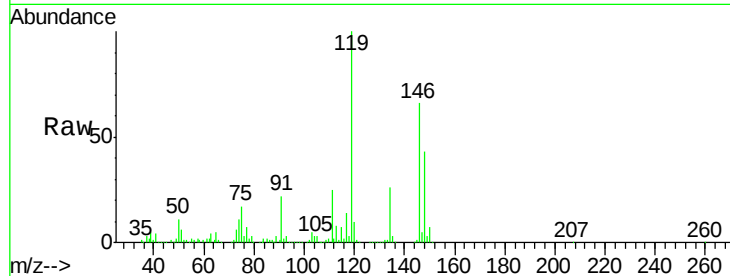
#83
 1,3-Dichlorobenzene
 Concen: 17.996 ug/l
 RT: 12.81 min Scan# 3433
 Delta R.T. -0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0812WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	19.1	57.1
148	62.7	32.6	97.8

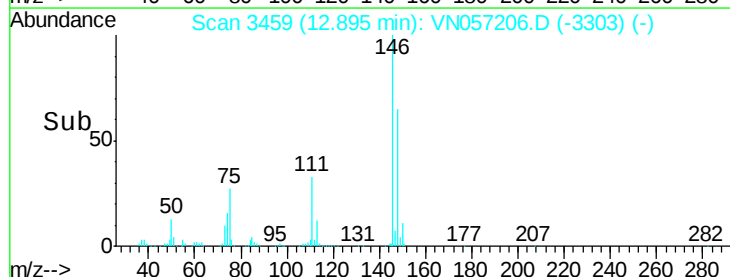
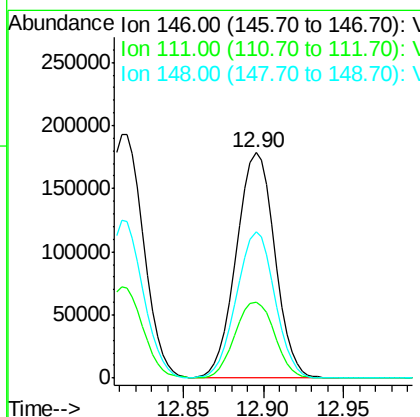
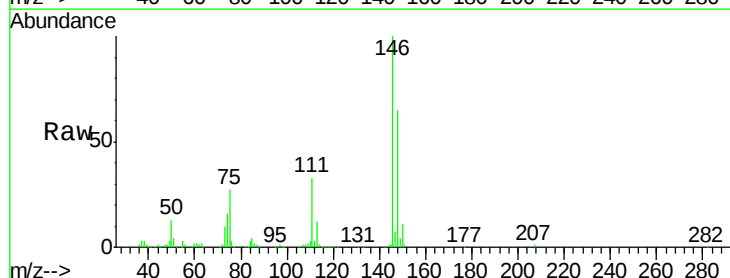
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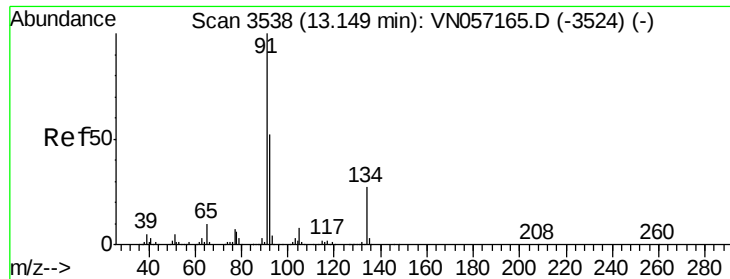
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#84
 1,4-Dichlorobenzene
 Concen: 17.551 ug/l
 RT: 12.90 min Scan# 3459
 Delta R.T. 0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.7	18.0	54.0
148	64.2	32.3	96.9





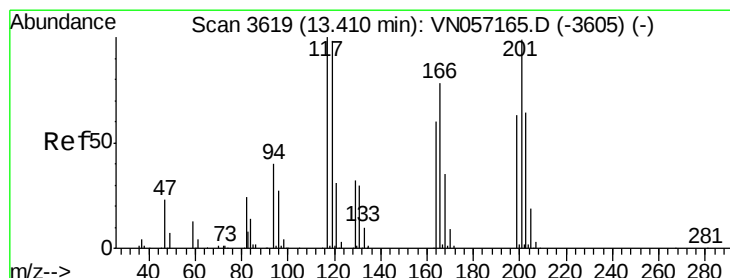
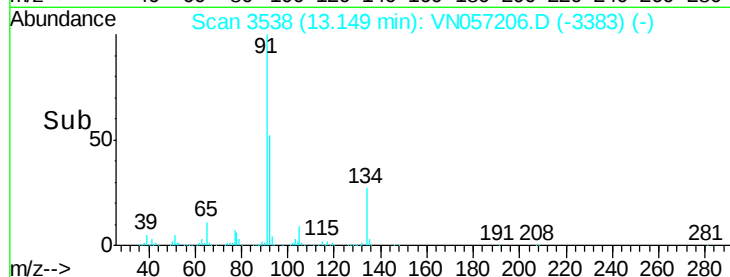
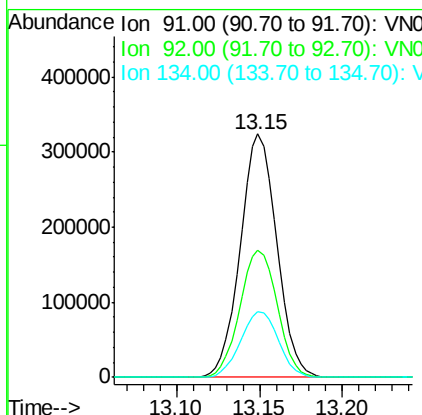
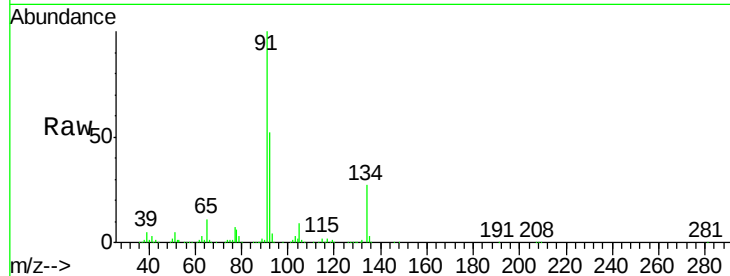
#85
n-Butylbenzene
Concen: 18.123 ug/l
RT: 13.15 min Scan# 3538
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	496074		
92	53.7	0.0	104.4	
134	28.0	0.0	55.0	

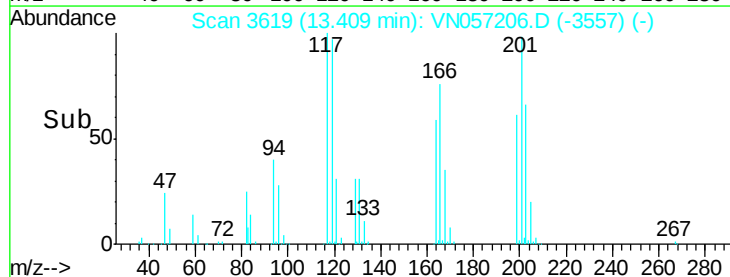
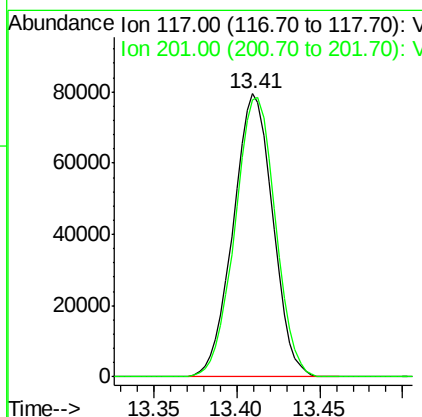
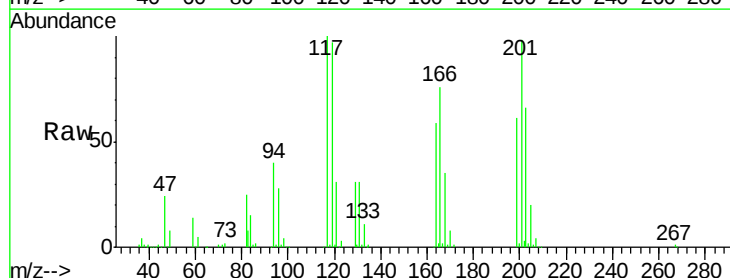
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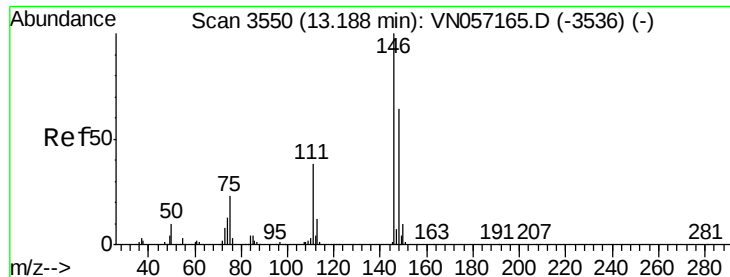
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#86
Hexachloroethane
Concen: 19.268 ug/l
RT: 13.41 min Scan# 3619
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	132630		
201	100.5	49.3	147.9	





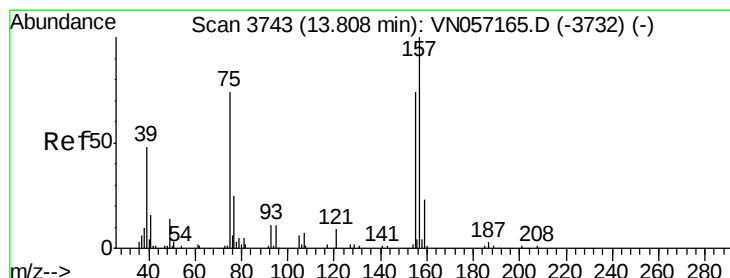
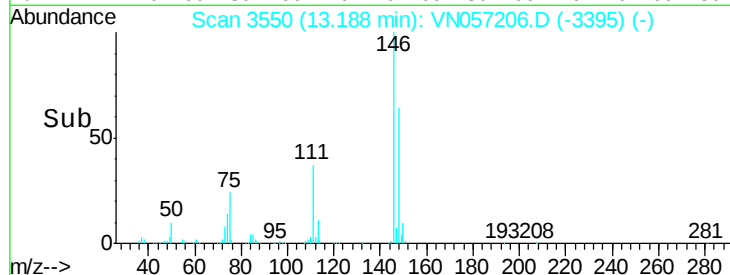
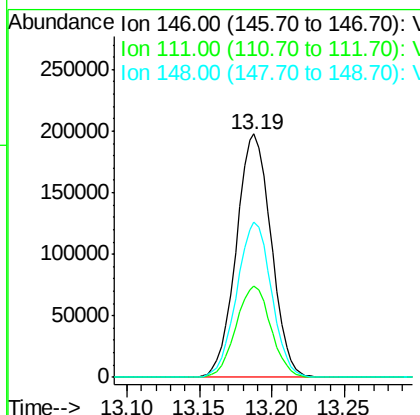
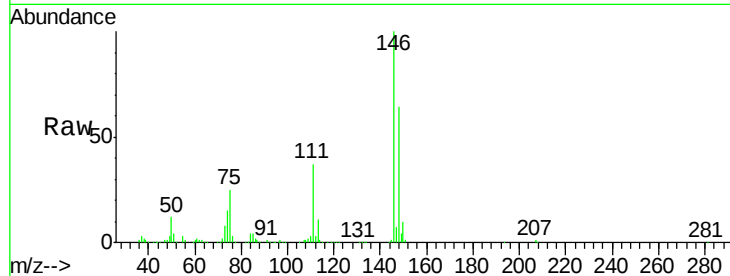
#87
 1,2-Dichlorobenzene
 Concen: 18.550 ug/l
 RT: 13.19 min Scan# 3550
 Delta R.T. -0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0812WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	18.9	56.5
148	63.8	32.4	97.0

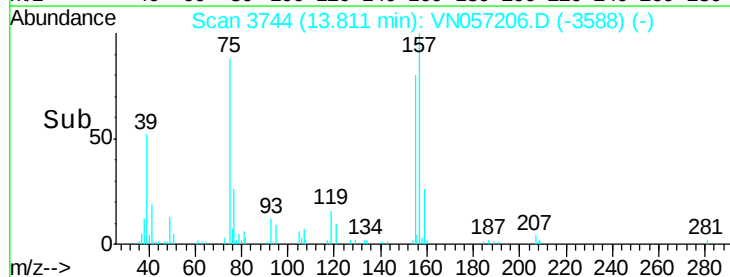
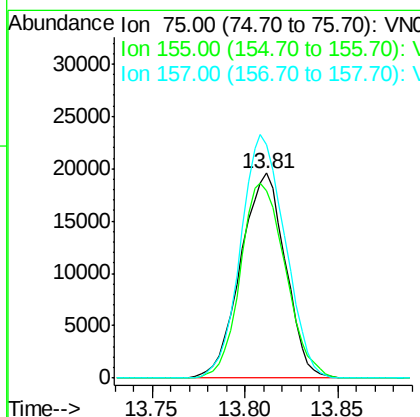
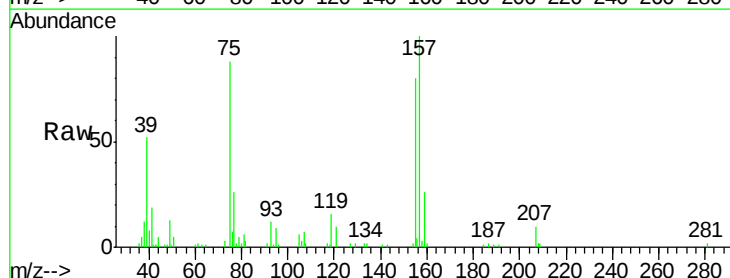
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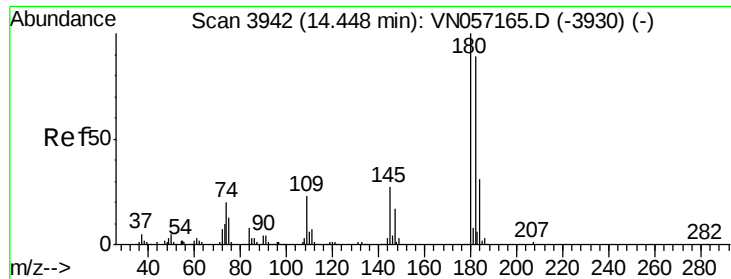
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 18.812 ug/l
 RT: 13.81 min Scan# 3744
 Delta R.T. 0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.6	80.9	121.3
157	117.5	111.3	166.9





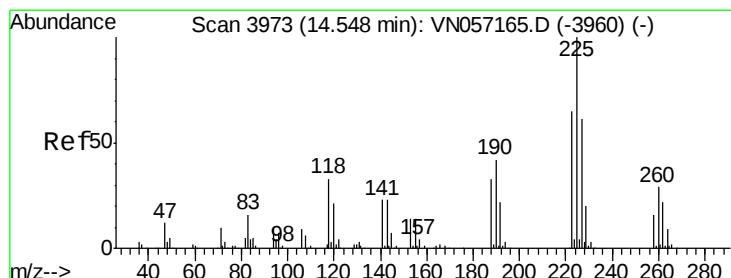
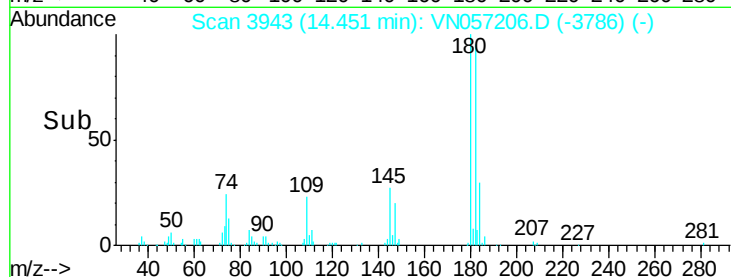
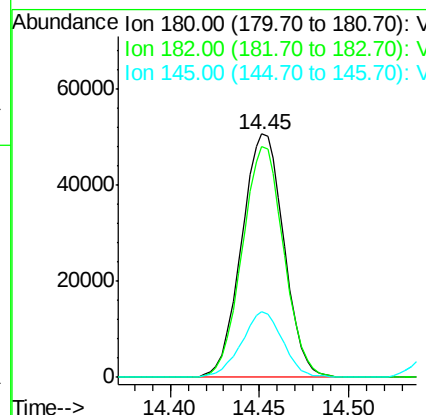
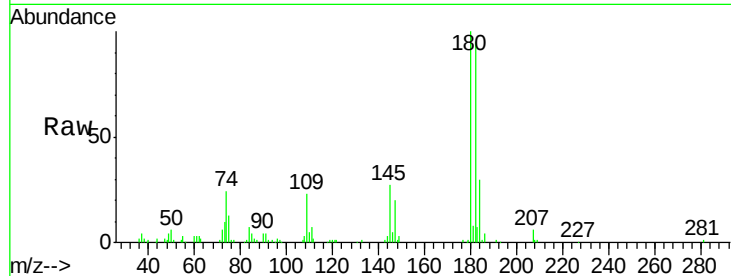
#89
 1,2,4-Trichlorobenzene
 Concen: 16.892 ug/l
 RT: 14.45 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0812WBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.1	75.0	112.6
145	26.4	21.7	32.5

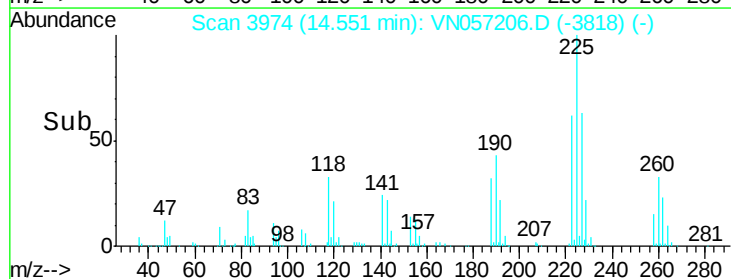
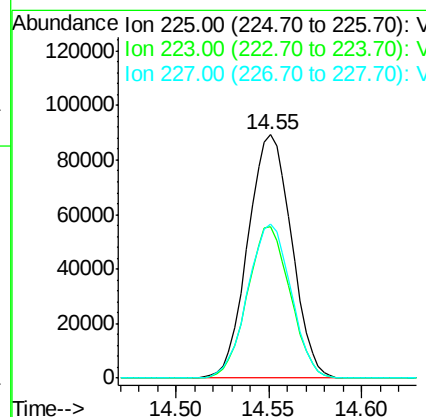
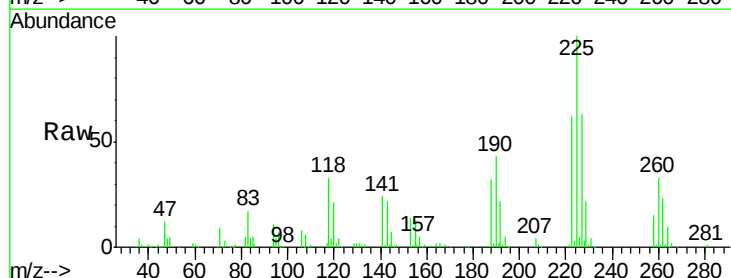
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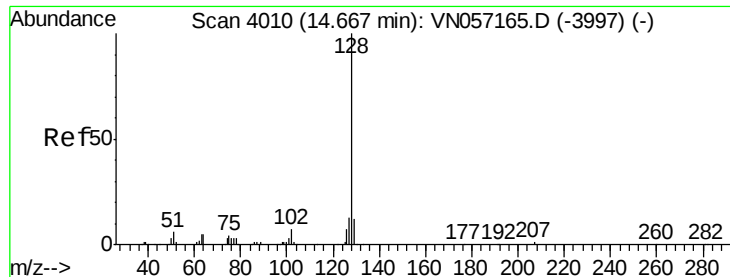
MMDadoda
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#90
 Hexachlorobutadiene
 Concen: 19.002 ug/l
 RT: 14.55 min Scan# 3974
 Delta R.T. 0.00 min
 Lab File: VN057206.D
 Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.1	0.0	128.0
227	62.9	0.0	125.6





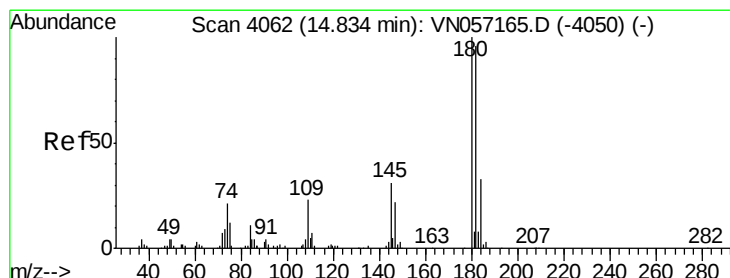
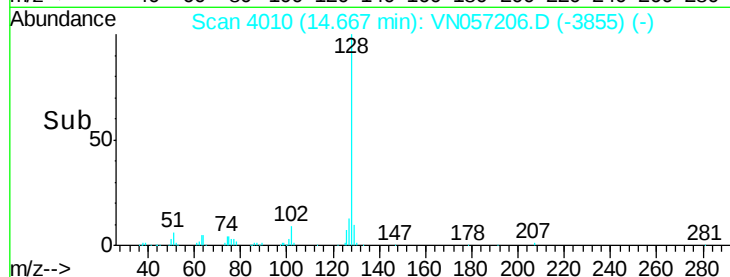
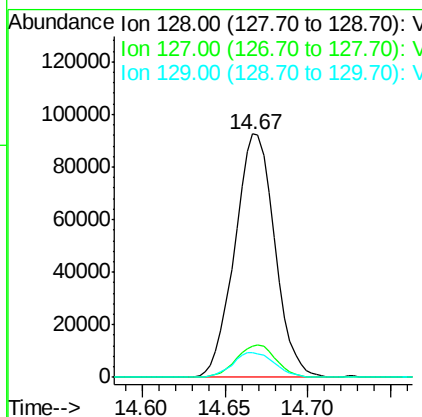
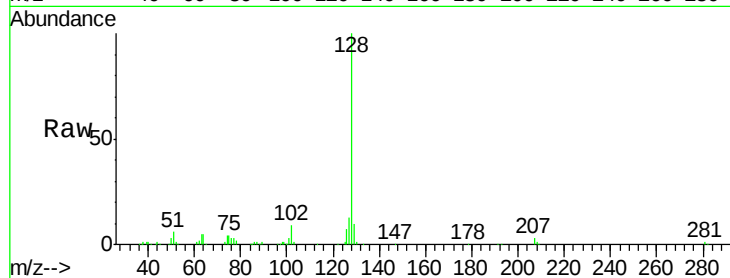
#91
Naphthalene
Concen: 11.492 ug/l
RT: 14.67 min Scan# 4010
Delta R.T. -0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Instrument :
MSVOA_N
ClientSampleId :
VN0812WBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.4
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
8/14/2019 9:23:32 AM



#92
1,2,3-Trichlorobenzene
Concen: 17.836 ug/l
RT: 14.84 min Scan# 4063
Delta R.T. 0.00 min
Lab File: VN057206.D
Acq: 12 Aug 2019 10:58

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	0.0	195.8
145	29.0	0.0	61.2

