

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091419\
 Data File : VN058027.D
 Acq On : 13 Sep 2019 19:23
 Operator : JC/SP
 Sample : VN0914WBSD03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Manual Integrations
 APPROVED

MMDadoda
 9/16/2019 2:11:38 PM

Quant Time: Sep 14 05:11:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	322240	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	524545	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	487996	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	283943	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	338878	51.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.84%	
35) Dibromofluoromethane	7.57	113	241972	49.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.96%	
50) Toluene-d8	10.09	98	959247	51.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.06%	
62) 4-Bromofluorobenzene	12.40	95	338738	47.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.58%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	94897	21.294	ug/l	98
3) Chloromethane	2.04	50	77270	17.012	ug/l	99
4) Vinyl Chloride	2.17	62	78112	16.249	ug/l	97
5) Bromomethane	2.54	94	44952	15.981	ug/l	93
6) Chloroethane	2.68	64	52225	17.049	ug/l	98
7) Trichlorofluoromethane	3.00	101	114838	18.983	ug/l	94
8) Diethyl Ether	3.39	74	49749	19.717	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.74	101	78642	20.607	ug/l	97
10) Methyl Iodide	3.93	142	72907	17.168	ug/l	99
11) Tert butyl alcohol	4.75	59	79299	100.386	ug/l	98
12) 1,1-Dichloroethene	3.72	96	63383	18.472	ug/l	99
13) Acrolein	3.59	56	14430	21.531	ug/l	91
14) Allyl chloride	4.30	41	124156	18.489	ug/l	97
15) Acrylonitrile	4.96	53	217274	100.070	ug/l	99
16) Acetone	3.80	43	189605	88.618	ug/l	99
17) Carbon Disulfide	4.03	76	85227	16.067	ug/l	98
18) Methyl Acetate	4.30	43	122236	21.427	ug/l	100
19) Methyl tert-butyl Ether	5.02	73	295825	20.716	ug/l	98
20) Methylene Chloride	4.53	84	91018	21.648	ug/l	97
21) trans-1,2-Dichloroethene	5.01	96	68054	18.347	ug/l	94
22) Diisopropyl ether	5.93	45	325651	20.680	ug/l	97
23) Vinyl Acetate	5.87	43	1121375	100.480	ug/l	98
24) 1,1-Dichloroethane	5.83	63	175488	20.390	ug/l	99
25) 2-Butanone	6.82	43	296056	95.603	ug/l	98
26) 2,2-Dichloropropane	6.80	77	124421	18.268	ug/l	100
27) cis-1,2-Dichloroethene	6.81	96	99129	19.942	ug/l	98
28) Bromochloromethane	7.18	49	96180	22.369	ug/l	98
29) Tetrahydrofuran	7.19	42	186770	97.877	ug/l	100
30) Chloroform	7.36	83	182508	20.282	ug/l	100
31) Cyclohexane	7.64	56	122792	19.576	ug/l	93
32) 1,1,1-Trichloroethane	7.55	97	141131	19.775	ug/l	99
36) 1,1-Dichloropropene	7.78	75	111612	18.347	ug/l	99
37) Ethyl Acetate	6.91	43	121357	19.308	ug/l	100
38) Carbon Tetrachloride	7.76	117	109230	19.667	ug/l	98

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 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	119827	18.738	ug/l	96
40) Benzene	8.03	78	364944	19.926	ug/l	96
41) Methacrylonitrile	7.16	41	64232	22.513	ug/l #	86
42) 1,2-Dichloroethane	8.11	62	149782	20.449	ug/l	100
43) Isopropyl Acetate	8.15	43	217665	20.593	ug/l #	90
44) Trichloroethene	8.82	130	87081	19.385	ug/l	98
45) 1,2-Dichloropropane	9.11	63	110498	20.734	ug/l	99
46) Dibromomethane	9.20	93	65699	20.401	ug/l	98
47) Bromodichloromethane	9.40	83	128324	19.954	ug/l	96
48) Methyl methacrylate	9.19	41	100352	18.717	ug/l	98
49) 1,4-Dioxane	9.19	88	32250	355.685	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	653975	104.555	ug/l	99
52) Toluene	10.15	92	225892	19.583	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	128709	19.006	ug/l	97
54) cis-1,3-Dichloropropene	9.83	75	144443	19.319	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	101187	20.708	ug/l	98
56) Ethyl methacrylate	10.43	69	141807	19.272	ug/l	98
57) 1,3-Dichloropropane	10.71	76	173577	20.613	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	317229	91.535	ug/l	100
59) 2-Hexanone	10.75	43	462206	98.589	ug/l	100
60) Dibromochloromethane	10.90	129	86219	19.002	ug/l	98
61) 1,2-Dibromoethane	11.00	107	90232	19.533	ug/l	99
64) Tetrachloroethene	10.63	164	70677	19.615	ug/l	98
65) Chlorobenzene	11.43	112	256096	20.053	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	89425	20.179	ug/l	98
67) Ethyl Benzene	11.51	91	464691	20.762	ug/l	100
68) m/p-Xylenes	11.62	106	336325	41.023	ug/l	100
69) o-Xylene	11.95	106	167015	20.491	ug/l	100
70) Styrene	11.97	104	290037	20.677	ug/l	100
71) Bromoform	12.13	173	50083	18.127	ug/l #	98
73) Isopropylbenzene	12.25	105	466328	21.165	ug/l	99
74) N-amyl acetate	12.07	43	196793	20.523	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	145295	19.585	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	121561m	18.925	ug/l	
77) Bromobenzene	12.53	156	108866	19.818	ug/l	97
78) n-propylbenzene	12.59	91	540949	21.381	ug/l	100
79) 2-Chlorotoluene	12.68	91	323209	20.212	ug/l	98
80) 1,3,5-Trimethylbenzene	12.74	105	392835	21.101	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	28336	15.524	ug/l #	83
82) 4-Chlorotoluene	12.78	91	333865	20.331	ug/l	100
83) tert-Butylbenzene	13.00	119	341357	20.628	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	397332	21.000	ug/l	99
85) sec-Butylbenzene	13.18	105	460815	21.009	ug/l	100
86) p-Isopropyltoluene	13.29	119	409045	21.166	ug/l	100
87) 1,3-Dichlorobenzene	13.29	146	204775	20.309	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	201243	19.663	ug/l	99
89) n-Butylbenzene	13.62	91	367019	20.110	ug/l	100
90) Hexachloroethane	13.88	117	54450	18.945	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	202903	20.143	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.28	75	23184	18.924	ug/l	98

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Manual Integrations
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Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	120101	18.241	ug/l	98
94) Hexachlorobutadiene	15.01	225	56082	20.094	ug/l	97
95) Naphthalene	15.13	128	324270	18.519	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	110166	19.782	ug/l	99

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

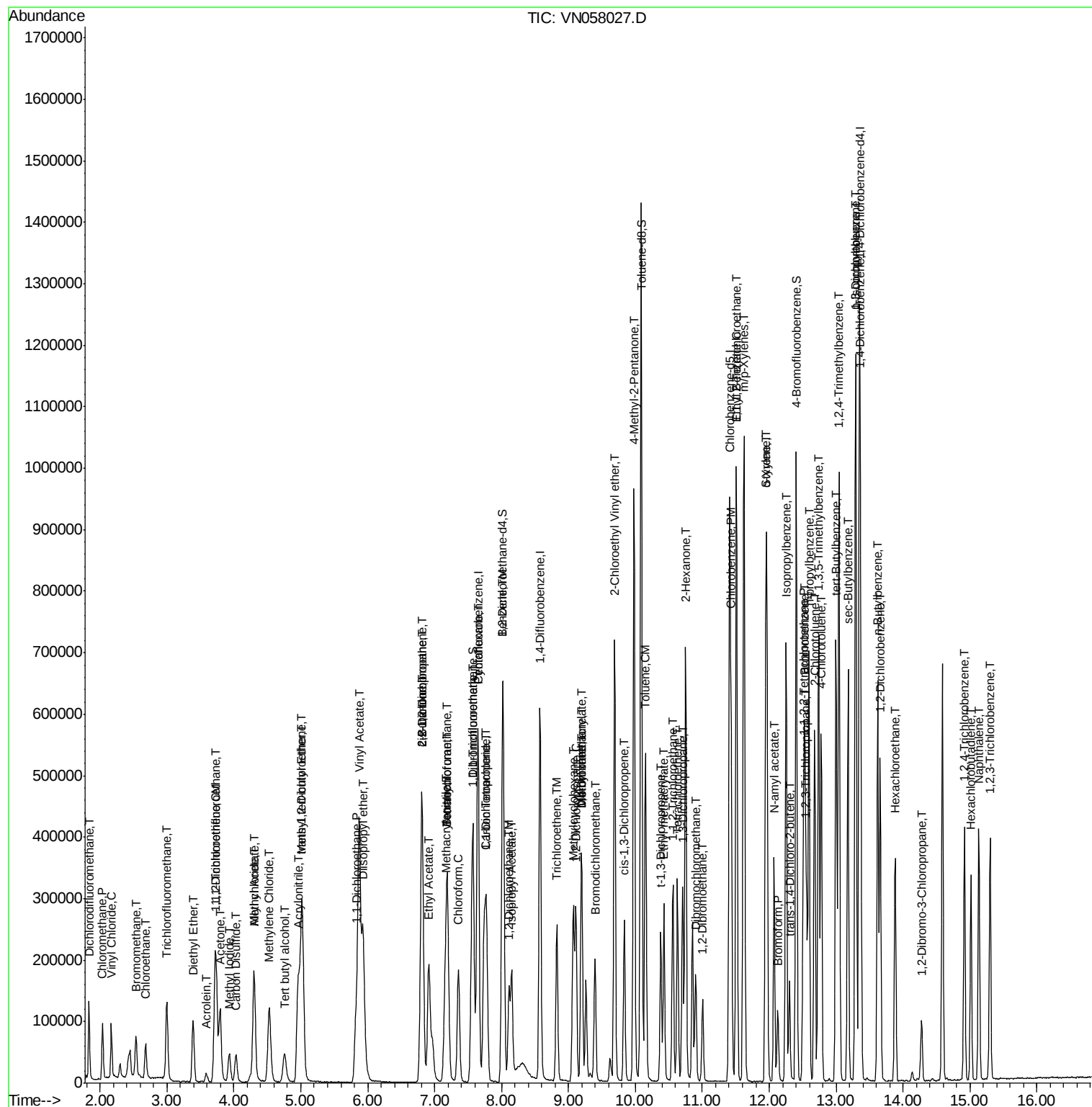
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Data File : VN058027.D
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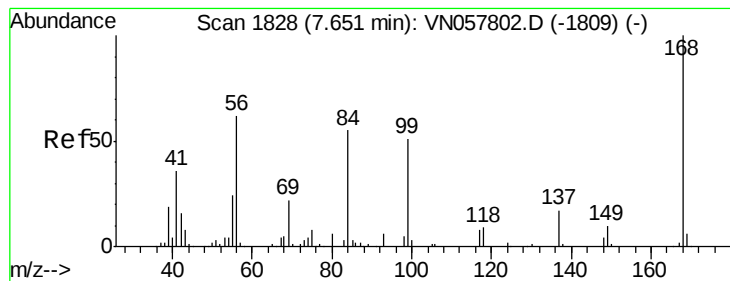
Instrument :
MSVOA_N
Client Sample Id :
VN0914WBSD03

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion:168 Resp: 322240

Ion Ratio Lower Upper

168 100

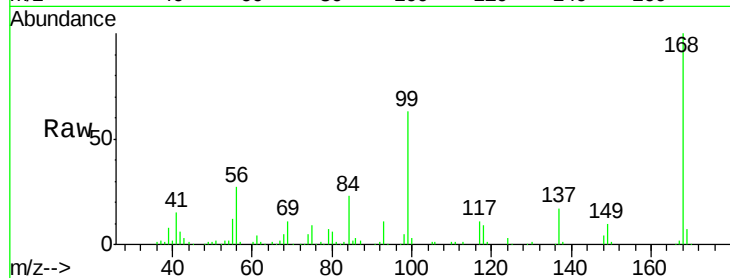
99 62.0 48.0 72.0

Manual Integrations

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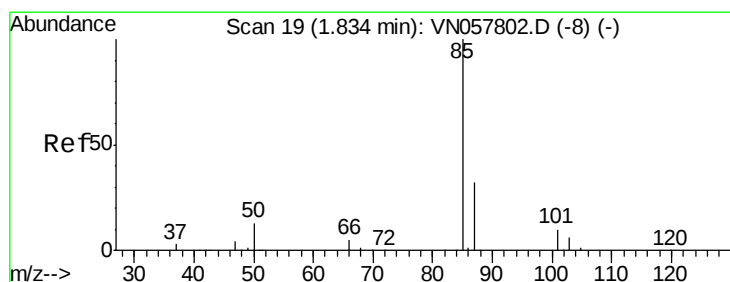
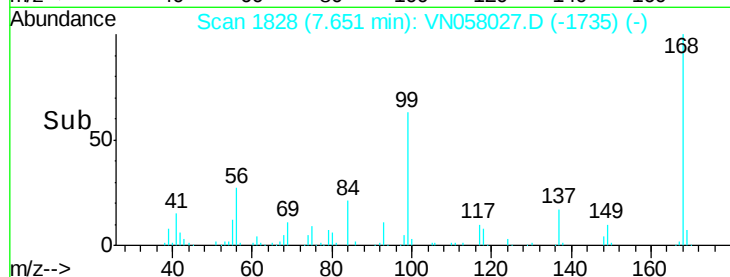
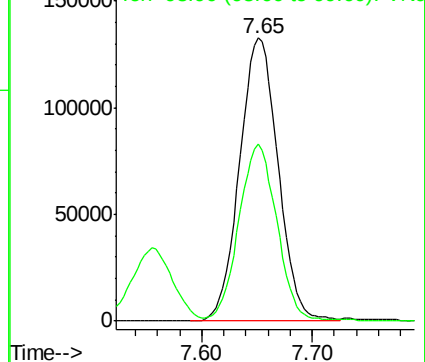
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 21.294 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058027.D

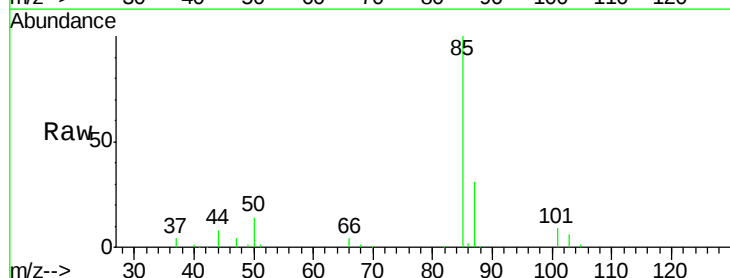
Acq: 13 Sep 2019 19:23

Tgt Ion: 85 Resp: 94897

Ion Ratio Lower Upper

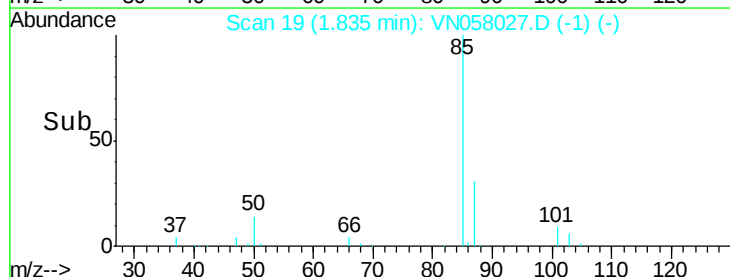
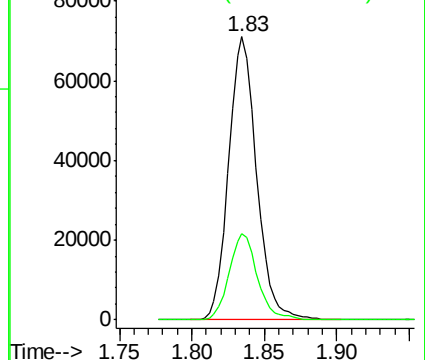
85 100

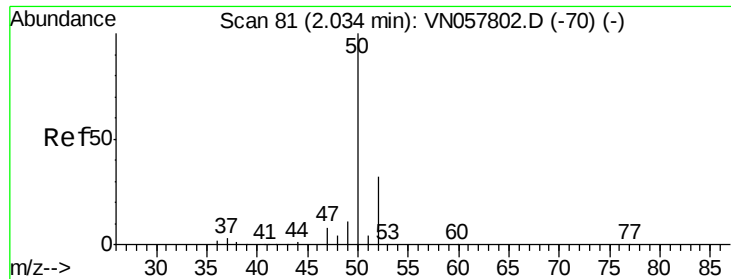
87 30.6 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 17.012 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 50 Resp: 77270

Ion Ratio Lower Upper

50 100

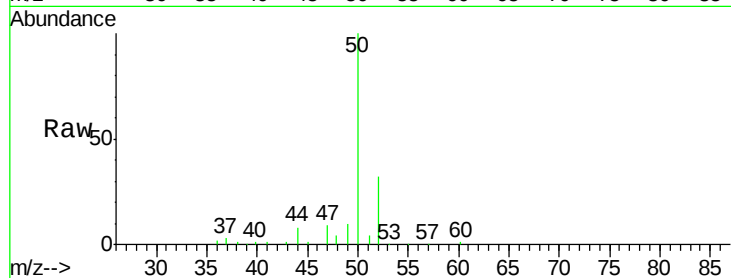
52 31.6 25.5 38.3

Manual Integrations

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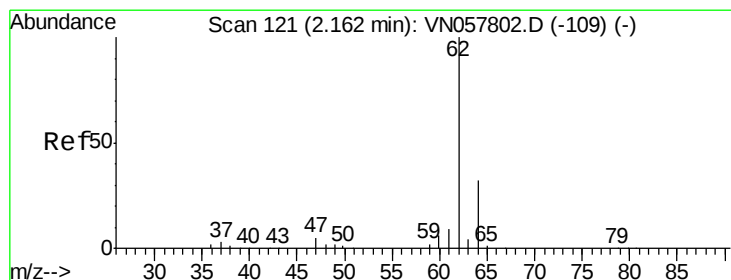
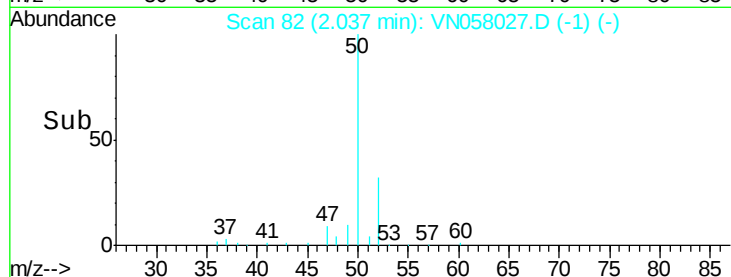
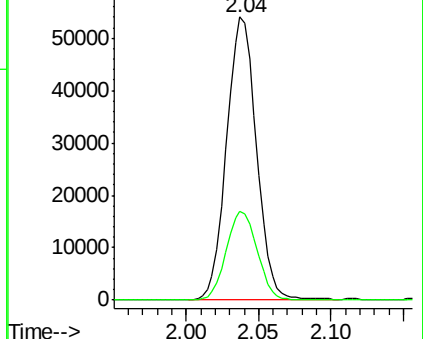
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 16.249 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.01 min

Lab File: VN058027.D

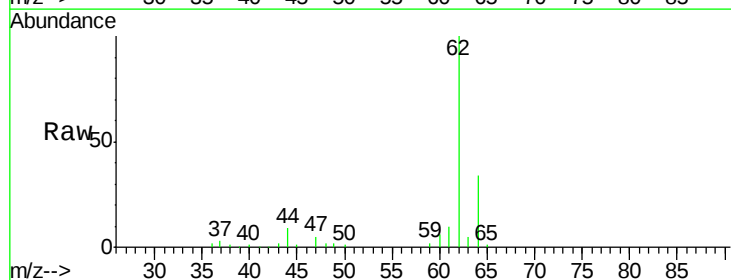
Acq: 13 Sep 2019 19:23

Tgt Ion: 62 Resp: 78112

Ion Ratio Lower Upper

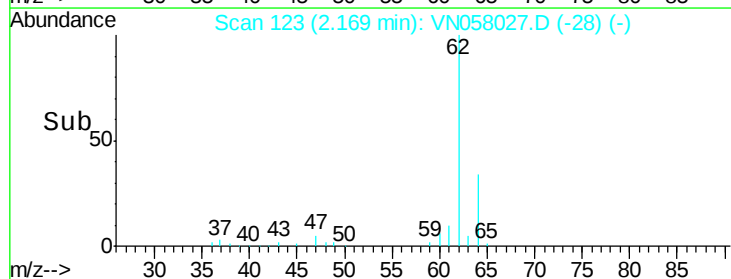
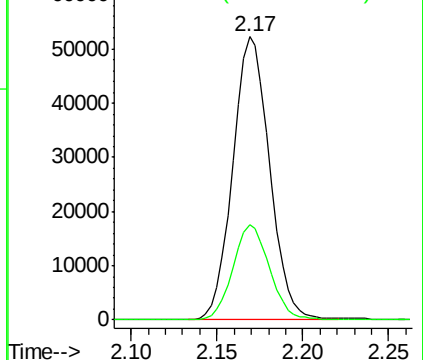
62 100

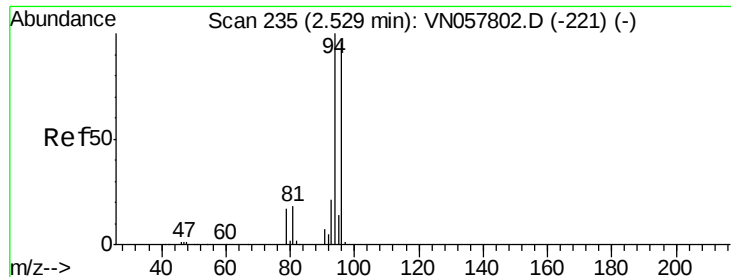
64 33.6 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 15.981 ug/l

RT: 2.54 min Scan# 237

Delta R.T. 0.01 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

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ClientSampleId :

VN0914WBSD03

Tot Ion: 94 Resp: 44952

Ion Ratio Lower Upper

94 100

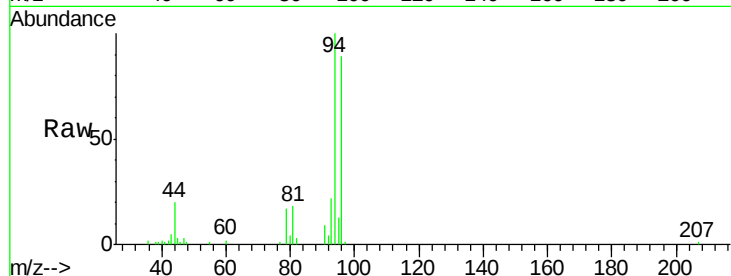
96 89.4 77.0 115.4

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

25000

20000

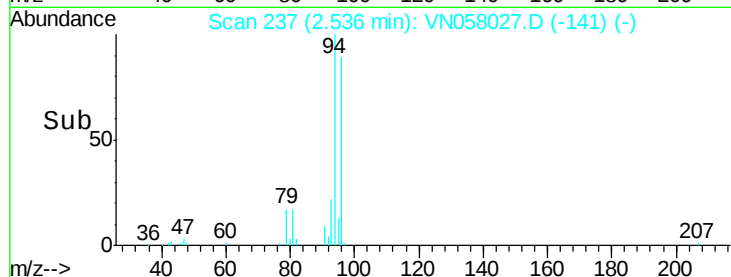
15000

10000

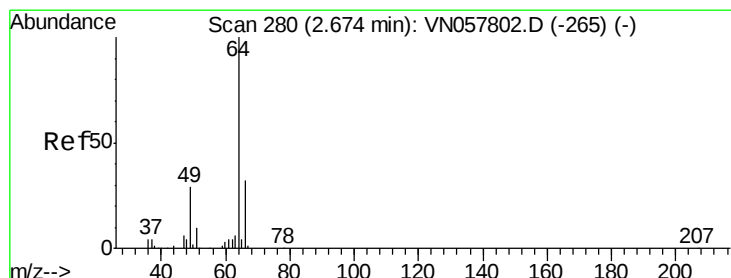
5000

0

Time-->



Time-->



#6

Chloroethane

Concen: 17.049 ug/l

RT: 2.68 min Scan# 282

Delta R.T. 0.01 min

Lab File: VN058027.D

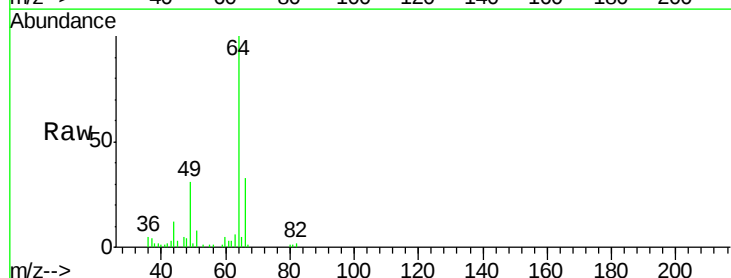
Acq: 13 Sep 2019 19:23

Tgt Ion: 64 Resp: 52225

Ion Ratio Lower Upper

64 100

66 33.0 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

30000

25000

20000

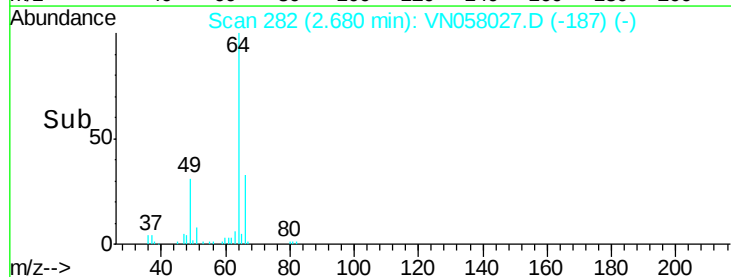
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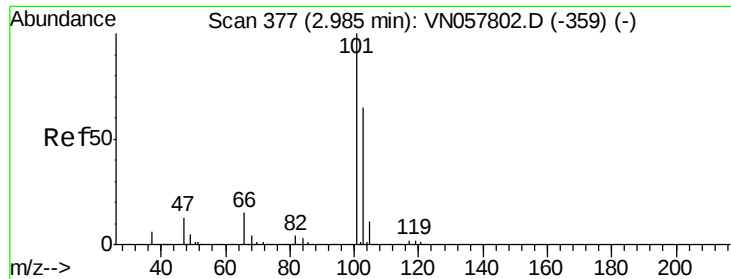
5000

0

Time-->



Time-->



#7

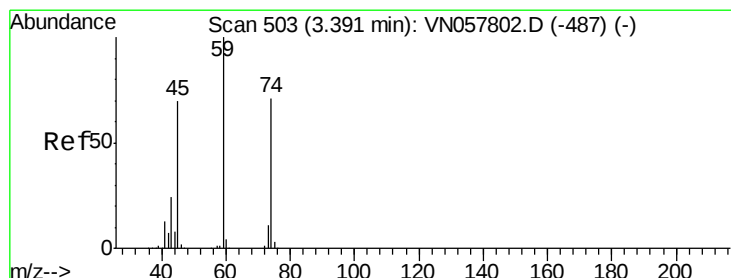
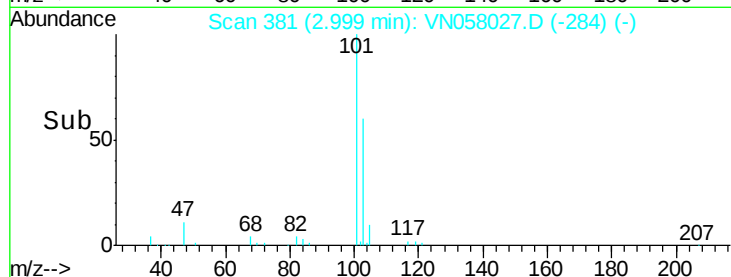
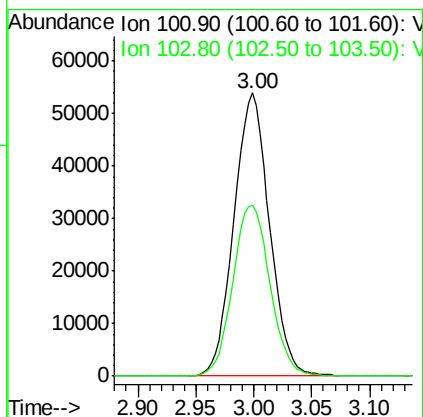
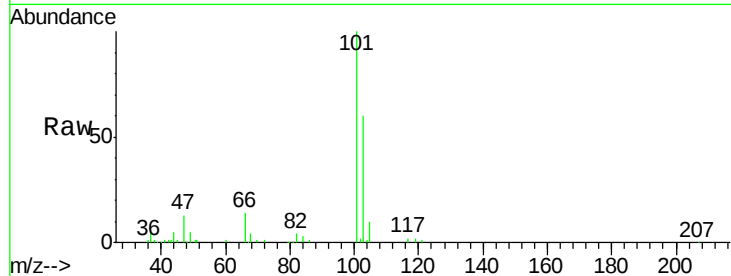
Trichlorofluoromethane
 Concen: 18.983 ug/l
 RT: 3.00 min Scan# 381
 Delta R.T. 0.01 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Instrument :
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 VN0914WBSD03

Tot Ion	Ratio	Resp	Lower	Upper
101	100	114838		
103	60.4	51.9	77.9	

Manual Integrations
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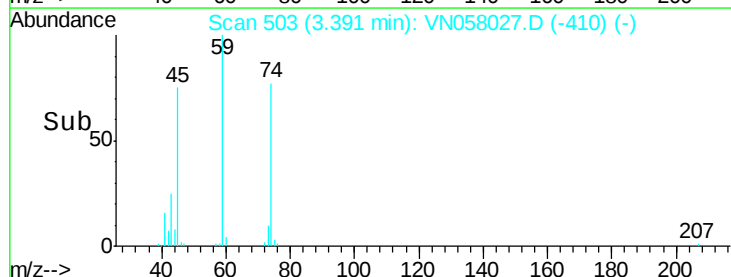
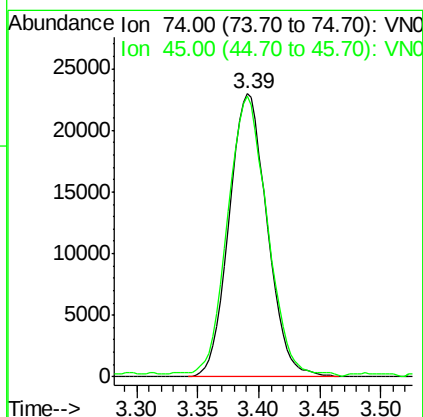
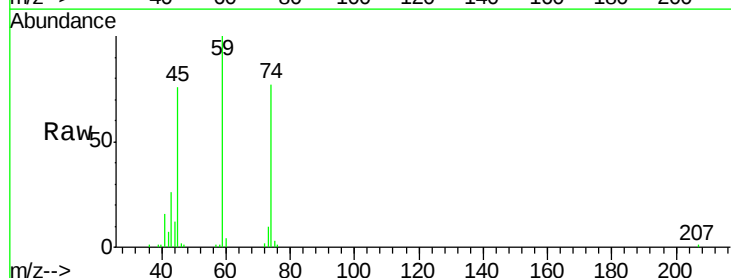
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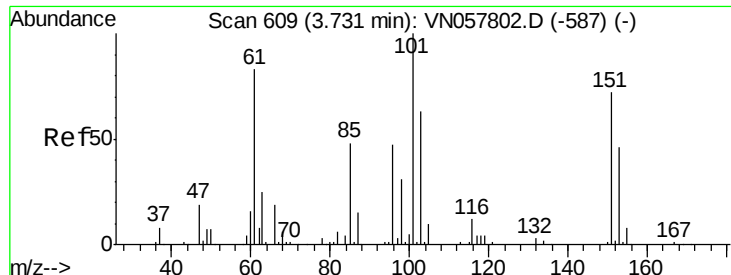


#8

Diethyl Ether
 Concen: 19.717 ug/l
 RT: 3.39 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	49749		
45	104.8	50.3	151.0	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.607 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.01 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

MSVOA_N

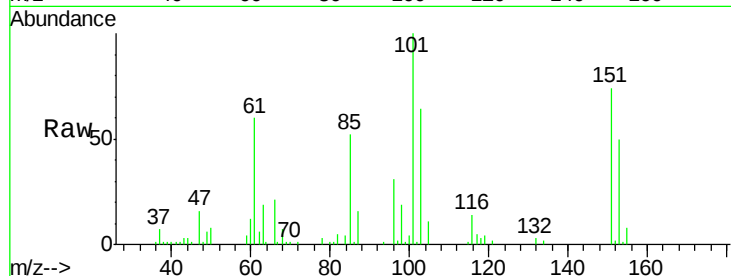
ClientSampleId :

VN0914WBSD03

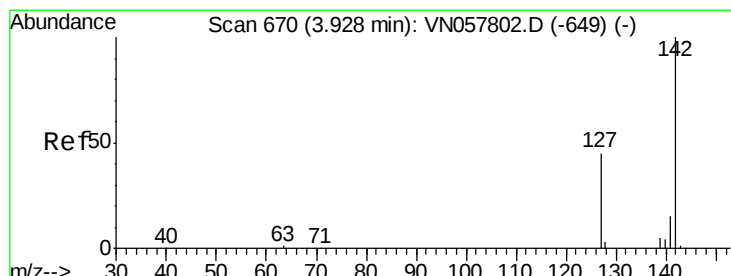
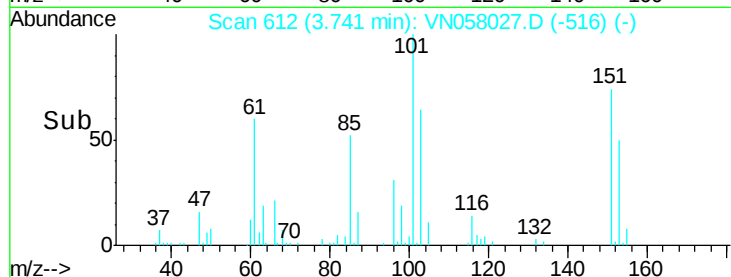
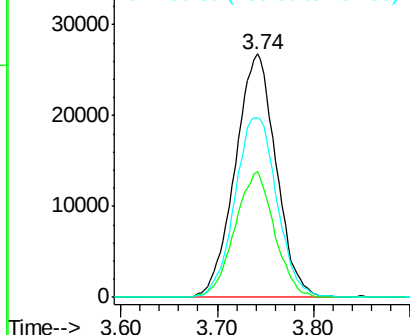
Tot Ion:	101	Resp:	78642
Ion Ratio	Lower	Upper	
101	100		
85	50.0	38.1	57.1
151	75.9	58.4	87.6

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



#10

Methyl Iodide

Concen: 17.168 ug/l

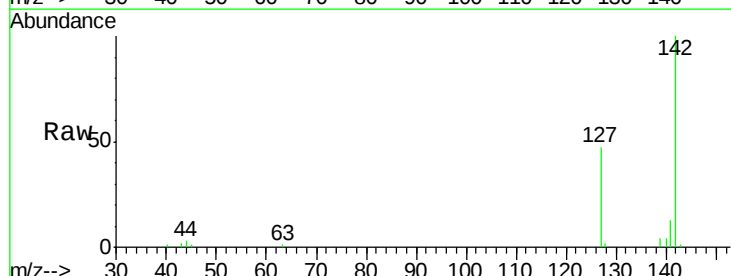
RT: 3.93 min Scan# 671

Delta R.T. 0.00 min

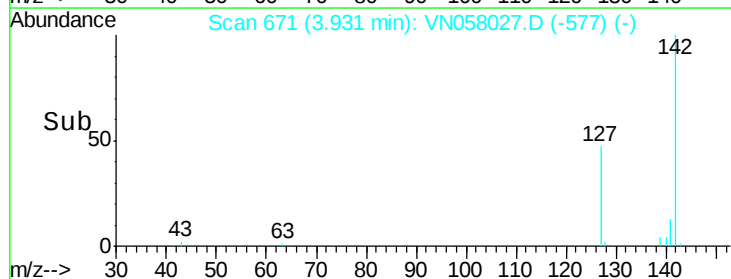
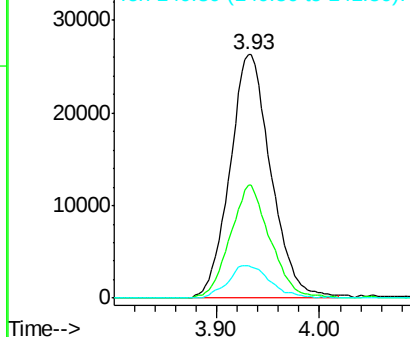
Lab File: VN058027.D

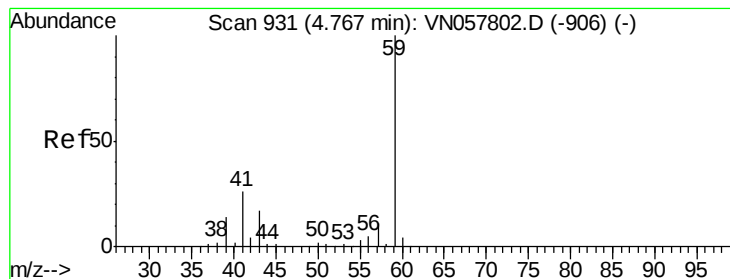
Acq: 13 Sep 2019 19:23

Tgt Ion:	142	Resp:	72907
Ion Ratio	Lower	Upper	
142	100		
127	45.2	36.7	55.1
141	13.8	11.4	17.0



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





#11

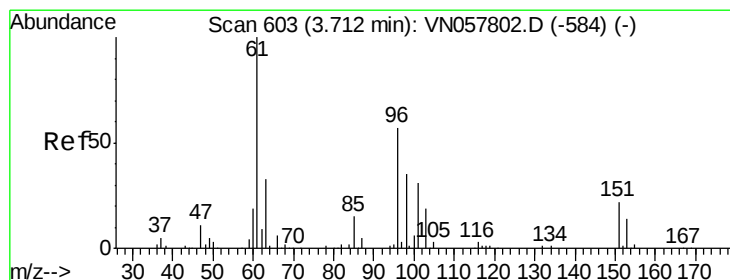
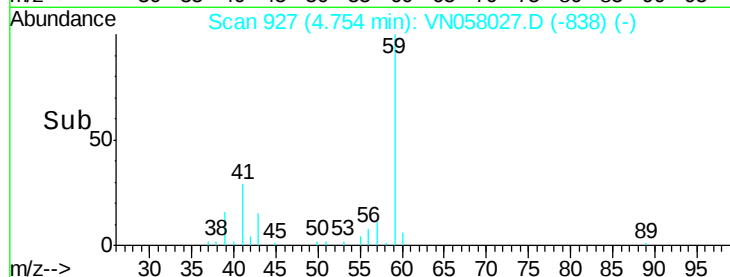
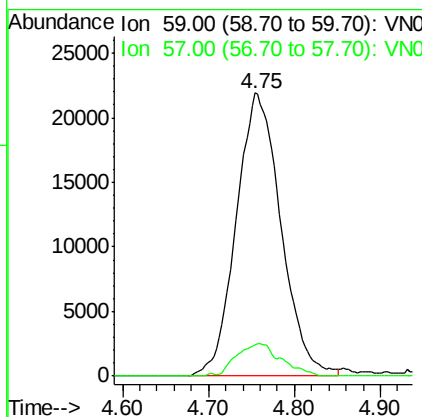
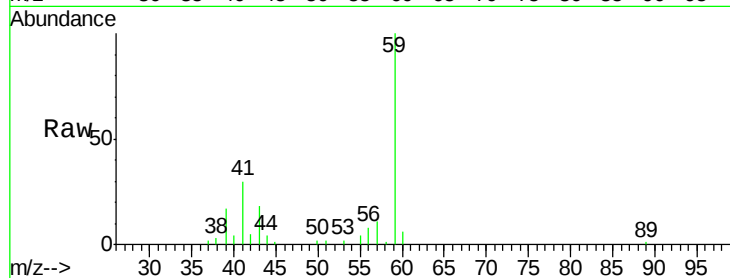
Tert butyl alcohol
 Concen: 100.386 ug/l
 RT: 4.75 min Scan# 927
 Delta R.T. -0.01 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.4	8.4	12.6

Manual Integrations
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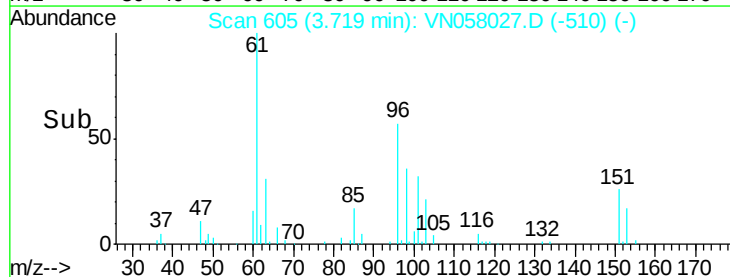
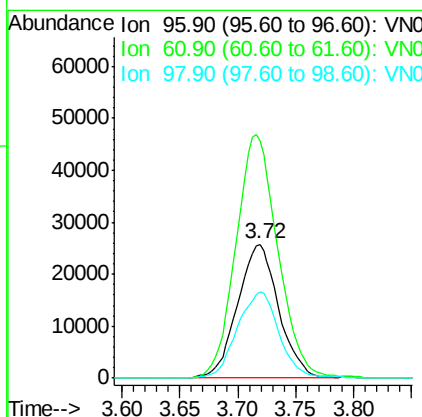
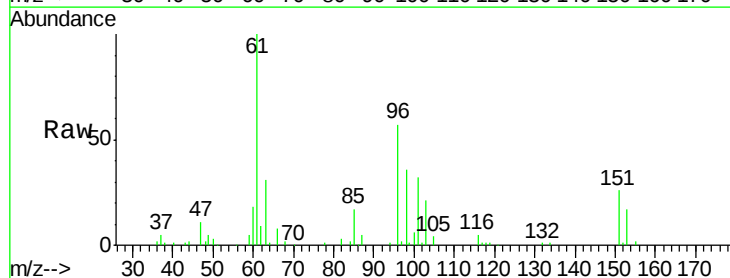
MMDadoda
 9/16/2019 2:11:38 PM

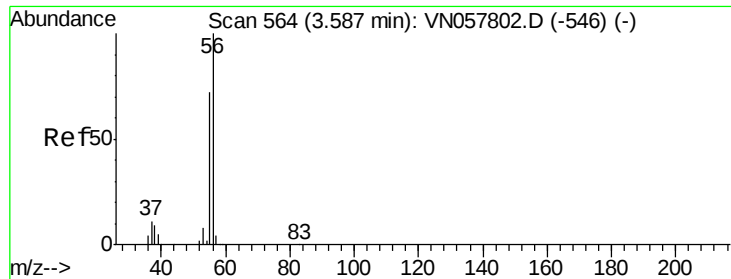


#12

1,1-Dichloroethene
 Concen: 18.472 ug/l
 RT: 3.72 min Scan# 605
 Delta R.T. 0.01 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
96	100		
61	176.9	141.2	211.8
98	64.5	49.9	74.9





#13

Acrolein

Concen: 21.531 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 56 Resp: 14430

Ion Ratio Lower Upper

56 100

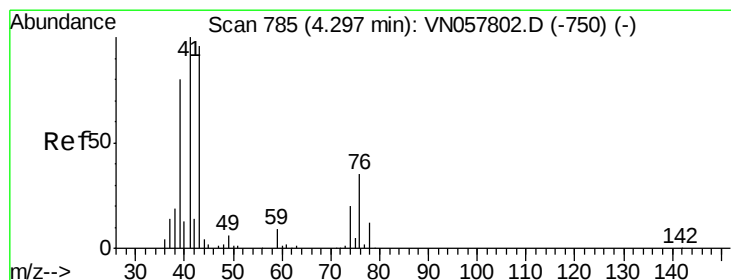
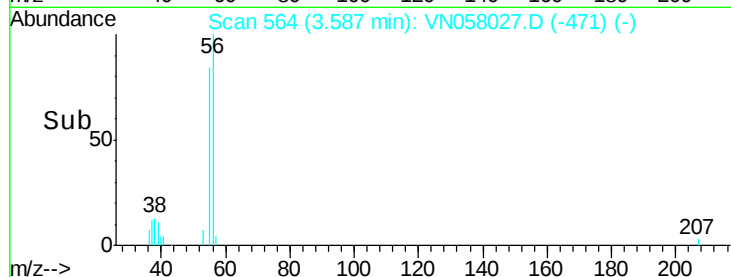
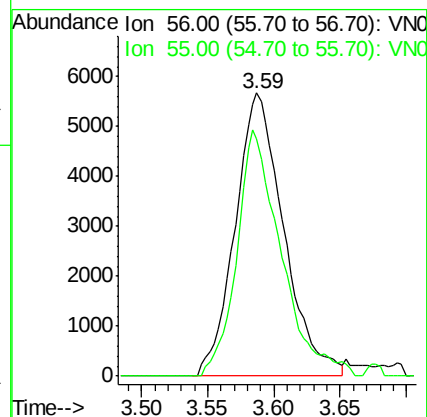
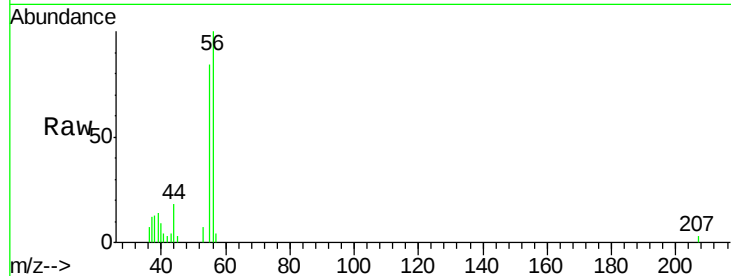
55 79.3 57.3 85.9

Manual Integrations

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#14

Allyl chloride

Concen: 18.489 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

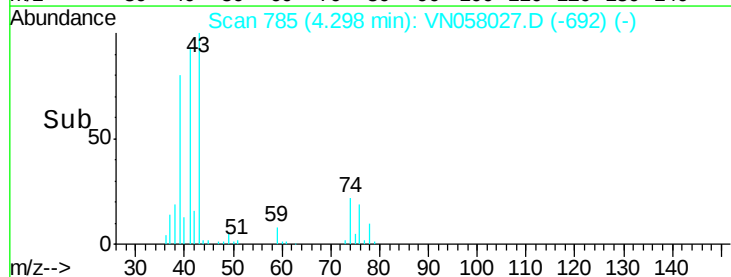
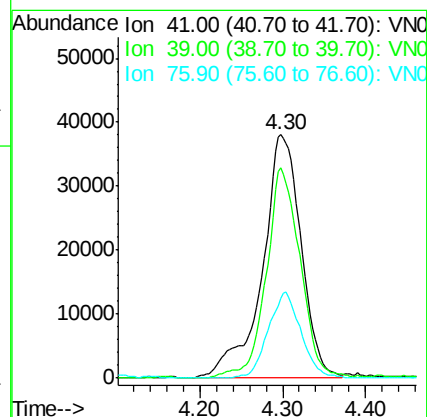
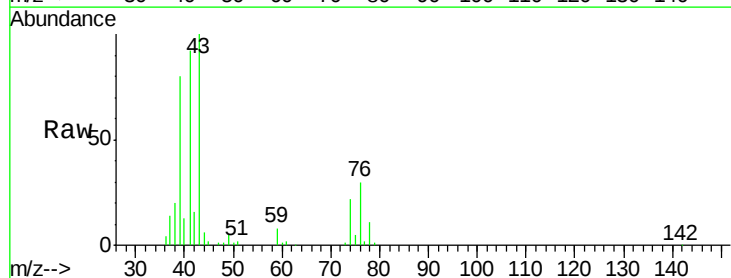
Tgt Ion: 41 Resp: 124156

Ion Ratio Lower Upper

41 100

39 75.5 59.4 89.2

76 29.7 26.0 39.0





#15

Acrylonitrile

Concen: 100.070 ug/l

RT: 4.96 min Scan# 991

Delta R.T. -0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

MSVOA_N

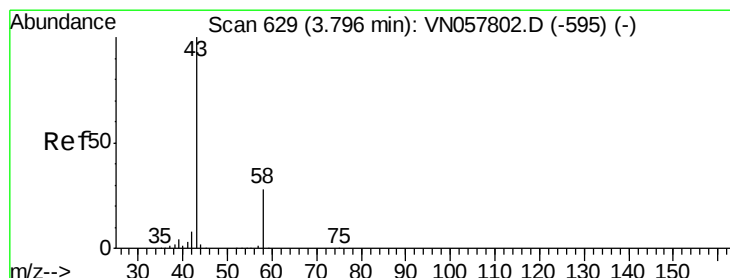
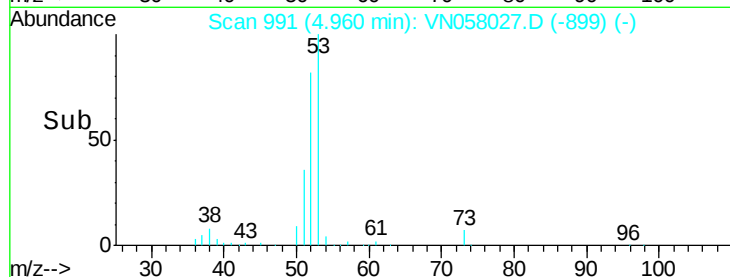
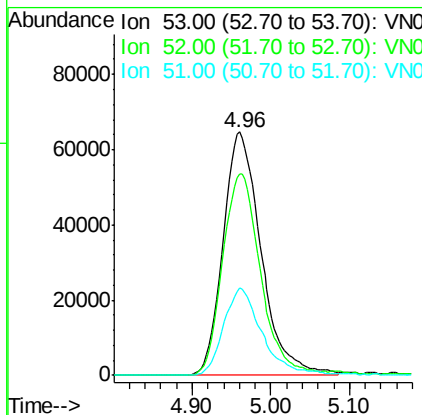
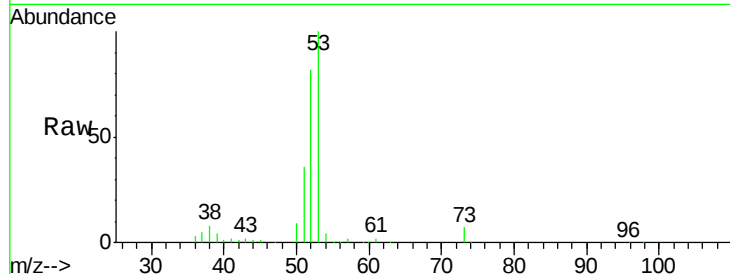
ClientSampleId :

VN0914WBSD03

Tot Ion:	53	Resp:	217274
Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.6	100.0
51	36.4	29.8	44.8

Manual Integrations
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#16

Acetone

Concen: 88.618 ug/l

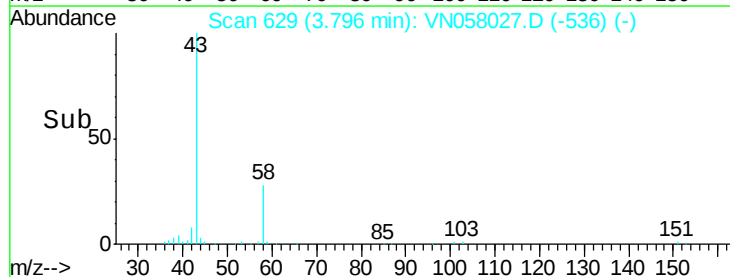
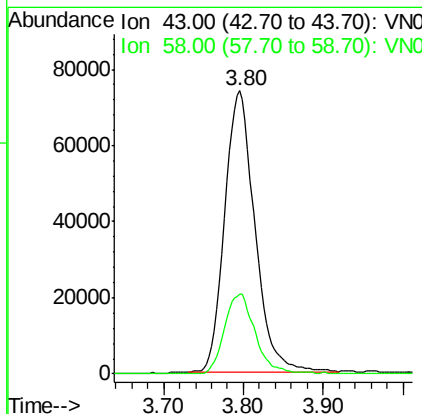
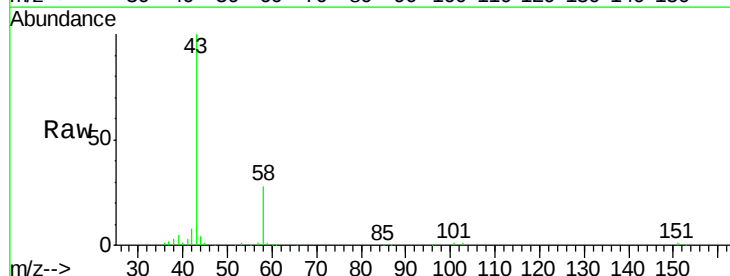
RT: 3.80 min Scan# 629

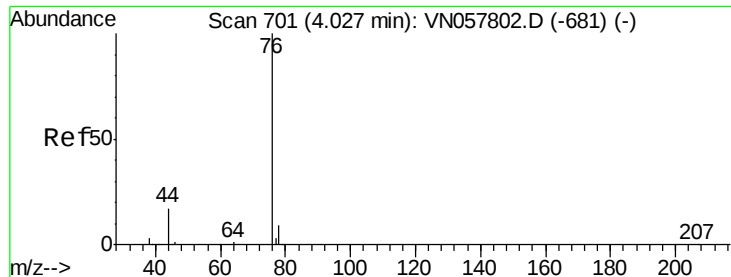
Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Tgt Ion:	43	Resp:	189605
Ion	Ratio	Lower	Upper
43	100		
58	28.3	22.2	33.2





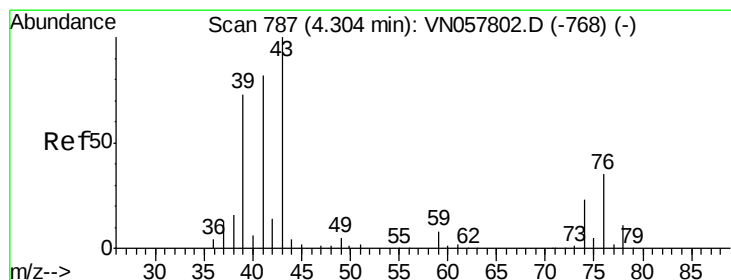
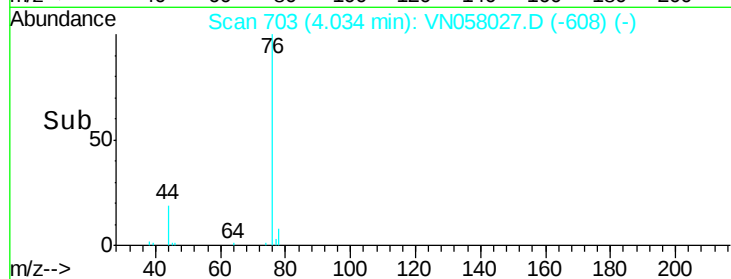
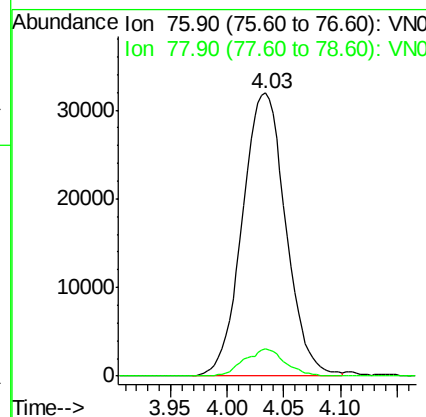
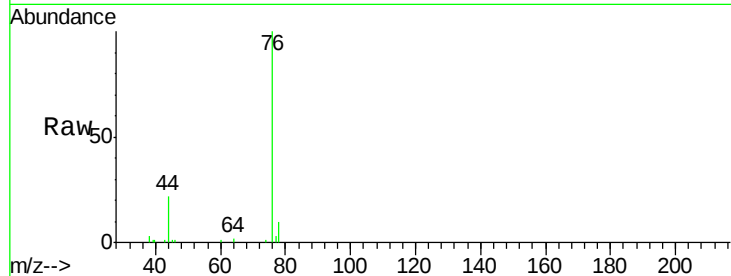
#17
Carbon Disulfide
Concen: 16.067 ug/l
RT: 4.03 min Scan# 703
Delta R.T. 0.01 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion: 76 Resp: 85227
Ion Ratio Lower Upper
76 100
78 9.7 7.1 10.7

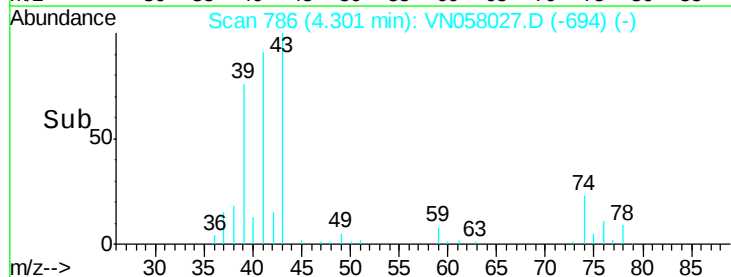
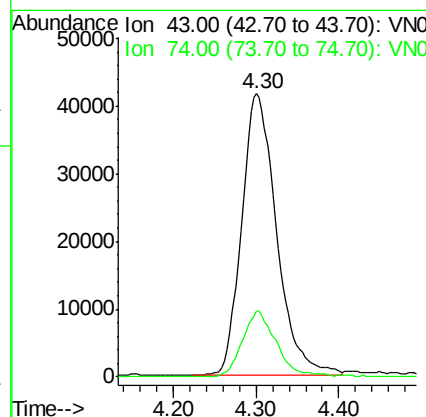
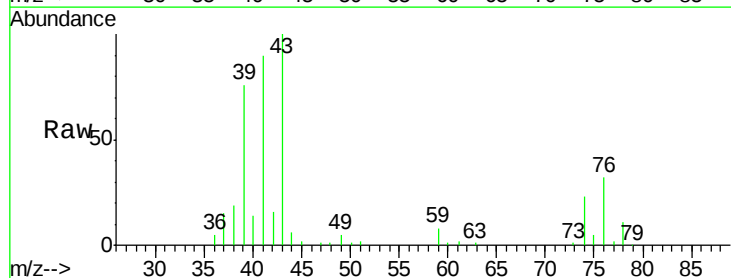
Manual Integrations
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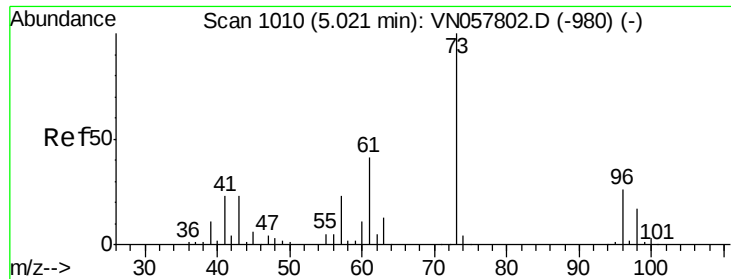
MMDadoda
9/16/2019 2:11:38 PM



#18
Methyl Acetate
Concen: 21.427 ug/l
RT: 4.30 min Scan# 786
Delta R.T. -0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion: 43 Resp: 122236
Ion Ratio Lower Upper
43 100
74 22.3 17.9 26.9





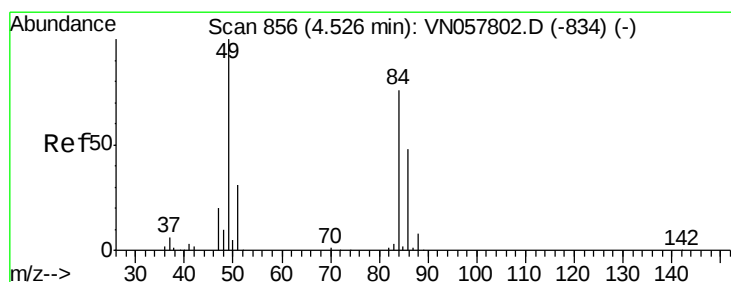
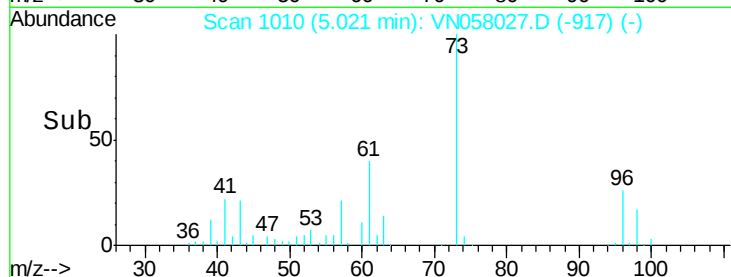
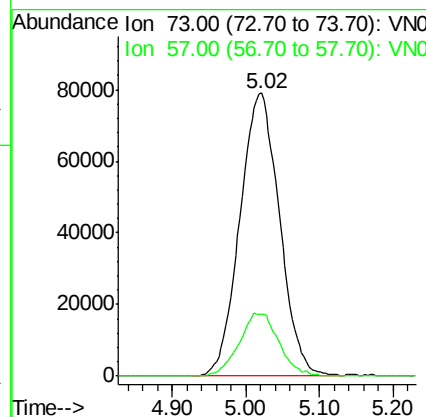
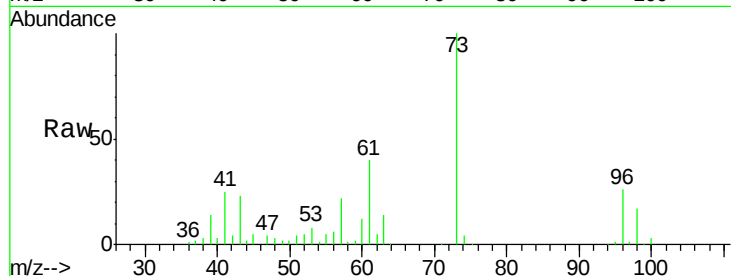
#19
Methvl tert-butvl Ether
Concen: 20.716 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.9	18.2	27.2

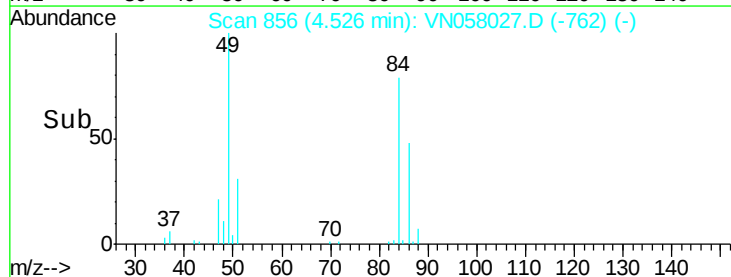
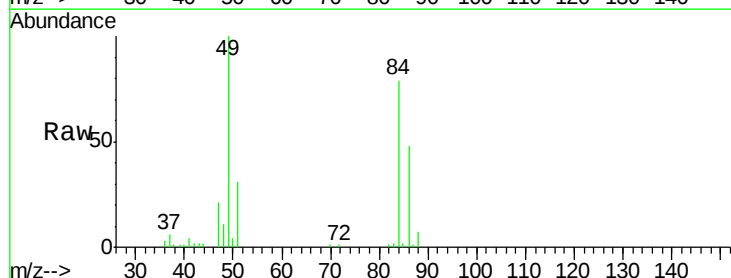
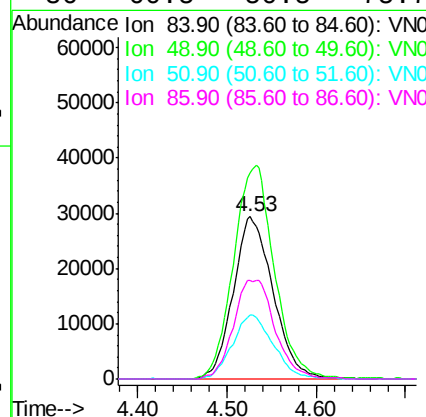
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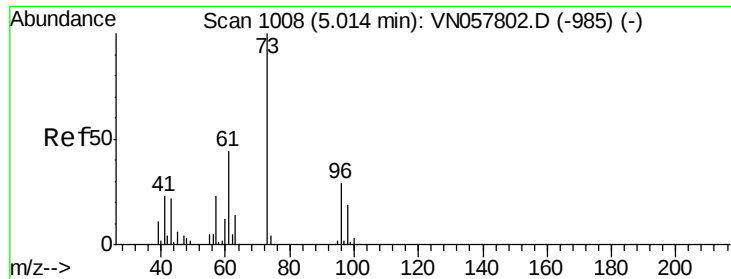
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#20
Methylene Chloride
Concen: 21.648 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
84	100		
49	127.1	104.8	157.2
51	39.8	33.0	49.4
86	60.5	50.5	75.7





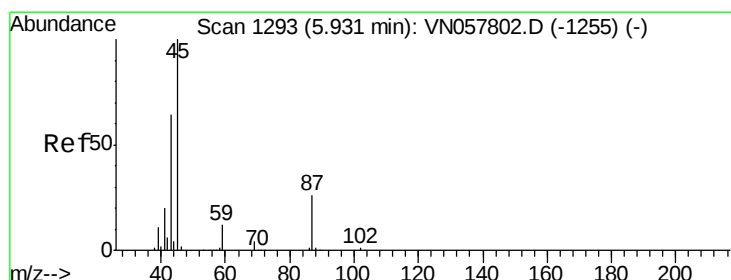
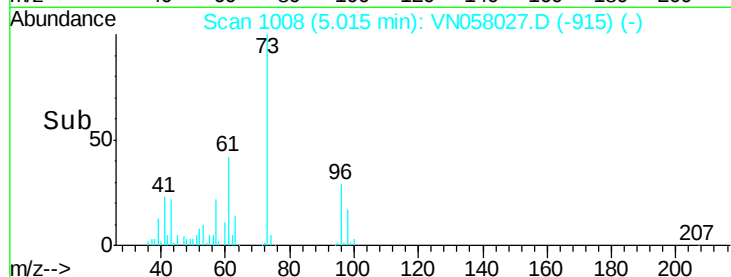
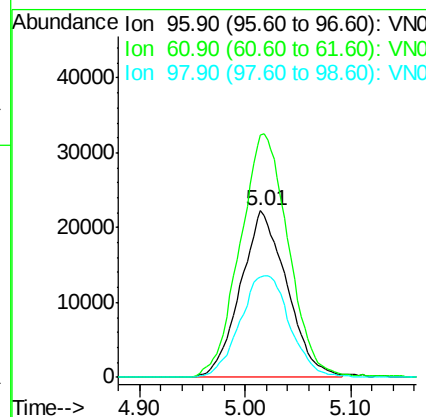
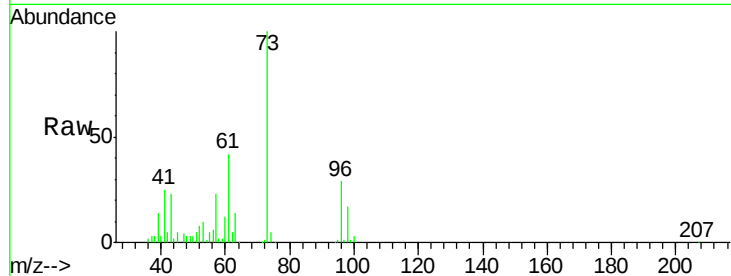
#21
trans-1,2-Dichloroethene
Concen: 18.347 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
96	100		
61	145.7	121.9	182.9
98	59.9	52.2	78.4

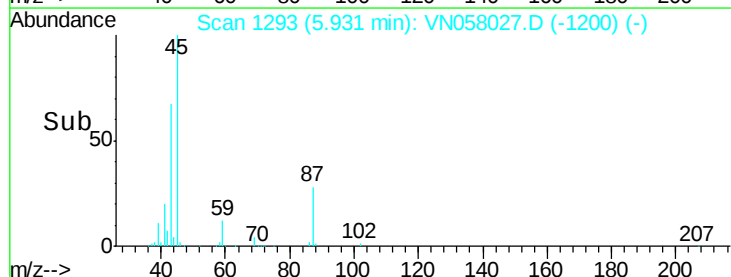
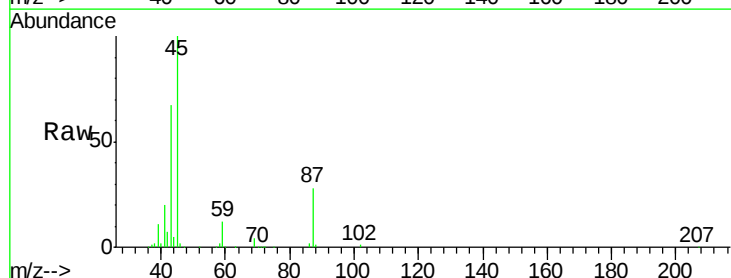
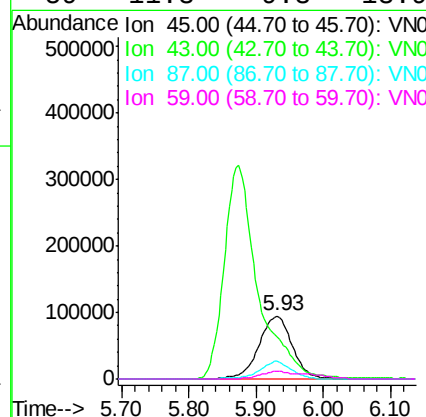
Manual Integrations
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#22
Diisopropyl ether
Concen: 20.680 ug/l
RT: 5.93 min Scan# 1293
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
45	100		
43	67.2	51.4	77.2
87	27.6	21.3	31.9
59	11.3	9.3	13.9





#23

Vinyl Acetate

Concen: 100.480 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 43 Resp: 1121375

Ion Ratio Lower Upper

43 100

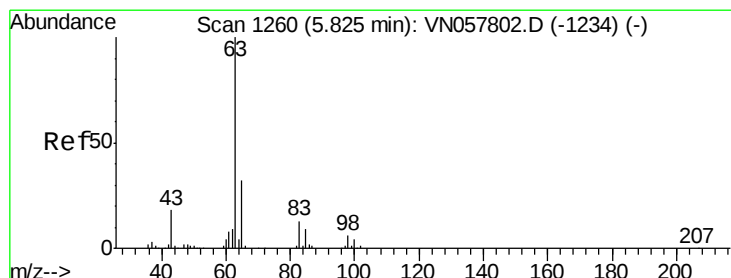
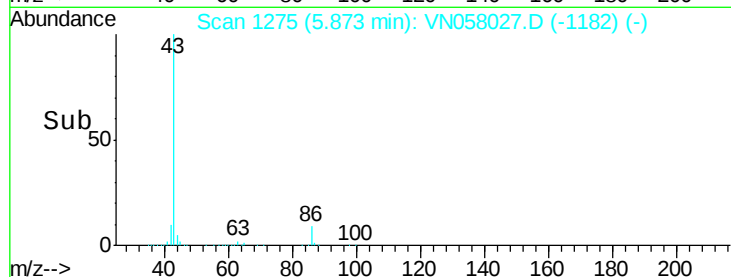
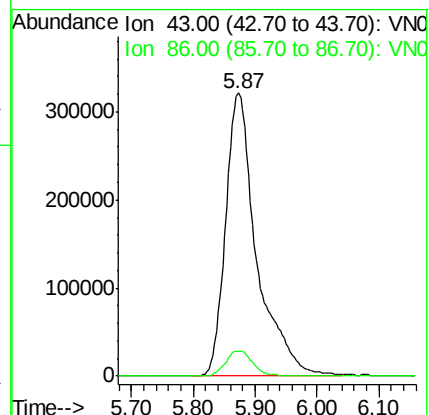
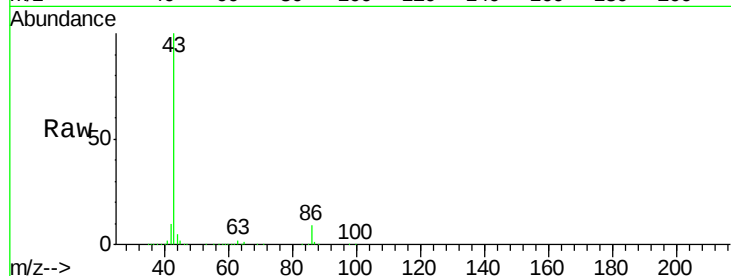
86 8.9 7.7 11.5

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 20.390 ug/l

RT: 5.83 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

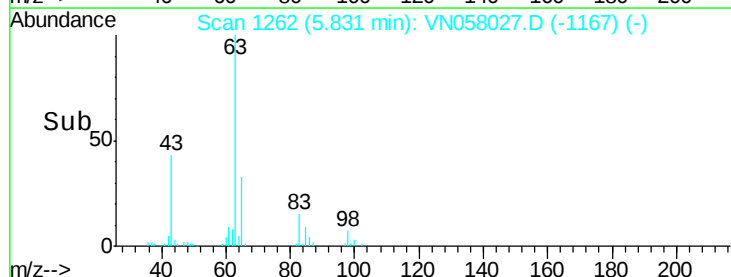
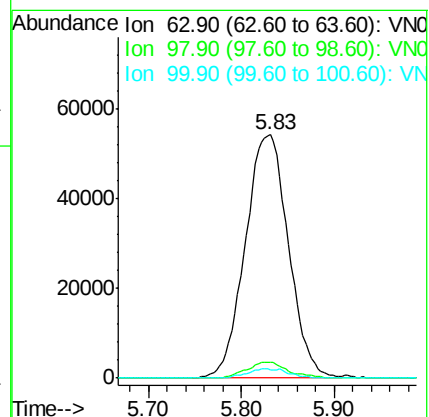
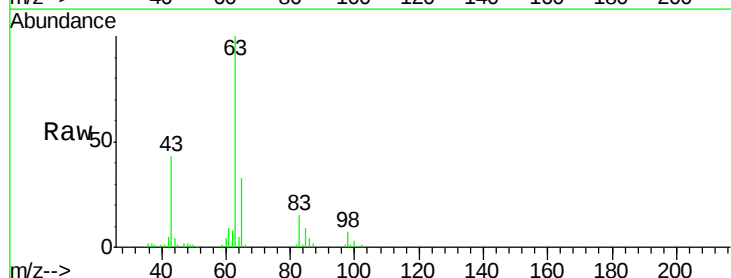
Tgt Ion: 63 Resp: 175488

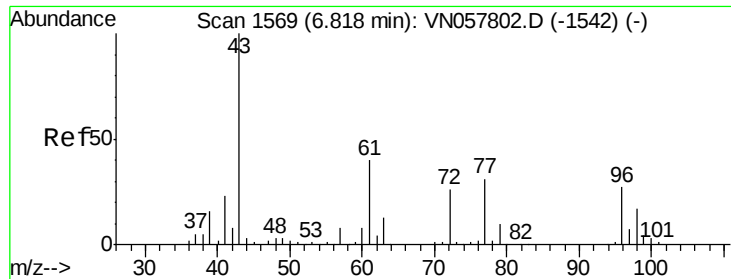
Ion Ratio Lower Upper

63 100

98 6.5 3.0 9.2

100 3.5 2.0 5.8





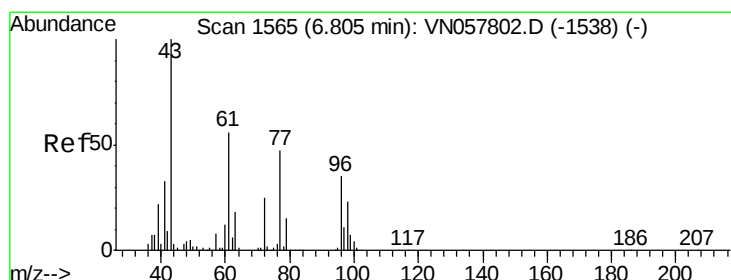
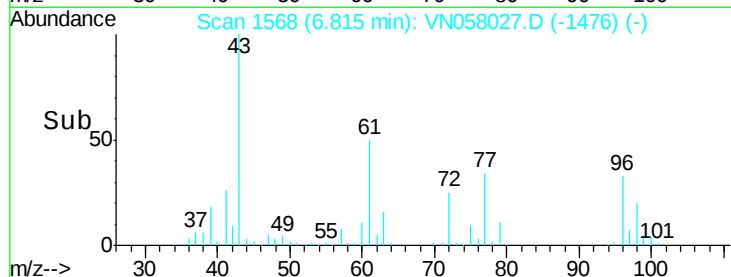
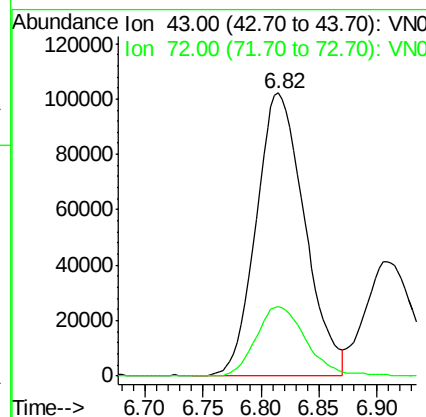
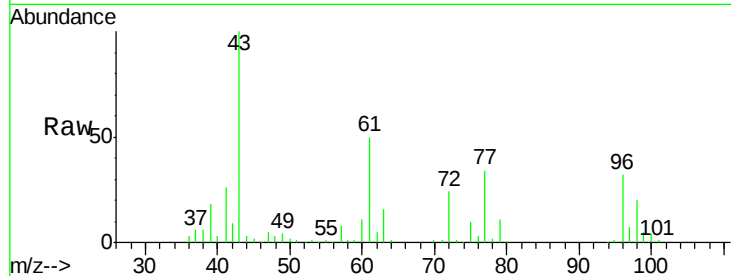
#25
2-Butanone
Concen: 95.603 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion: 43 Resp: 296056
Ion Ratio Lower Upper
43 100
72 24.5 20.6 30.8

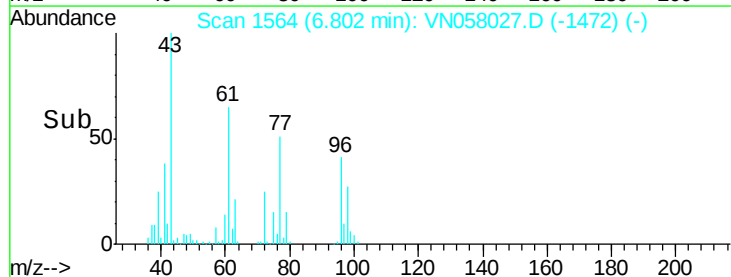
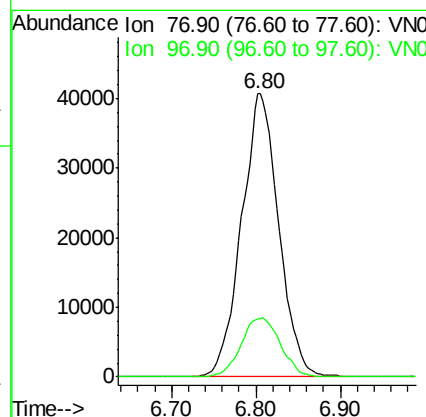
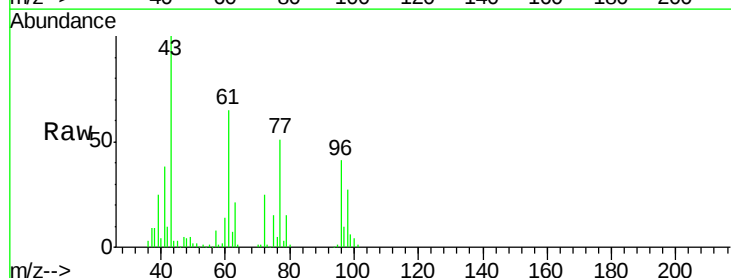
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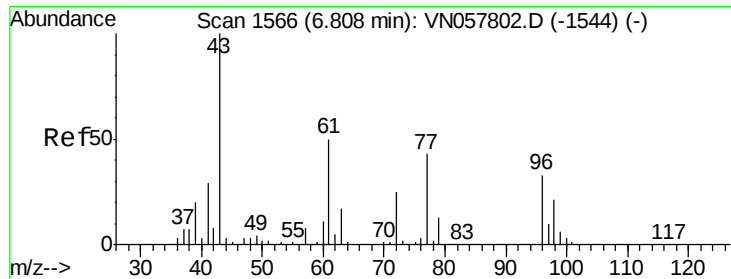
MMDadoda
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#26
2,2-Dichloropropane
Concen: 18.268 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion: 77 Resp: 124421
Ion Ratio Lower Upper
77 100
97 22.0 11.1 33.3





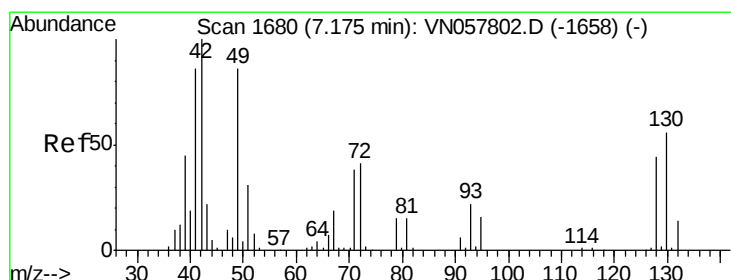
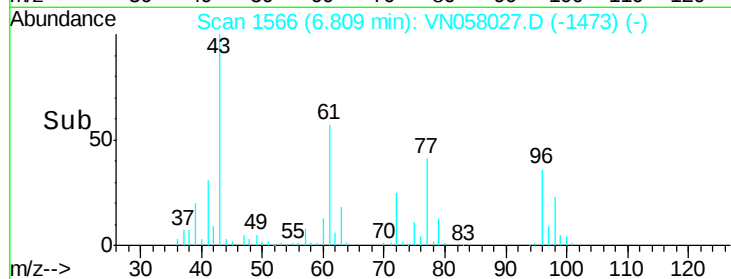
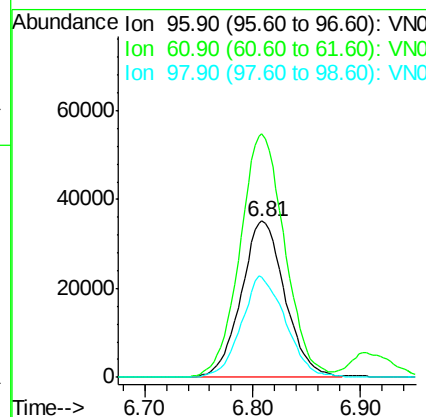
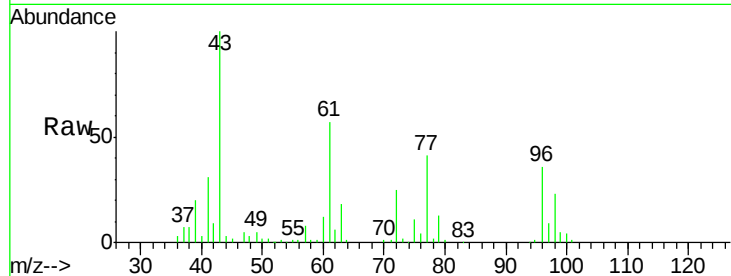
#27
 cis-1,2-Dichloroethene
 Concen: 19.942 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	159.2	0.0	314.0	
98	65.3	0.0	128.6	

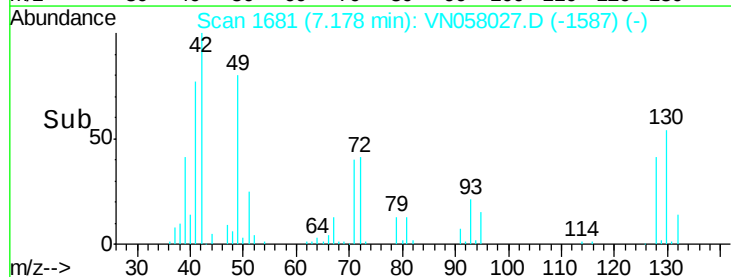
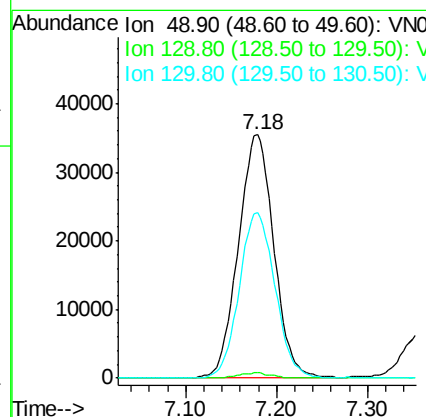
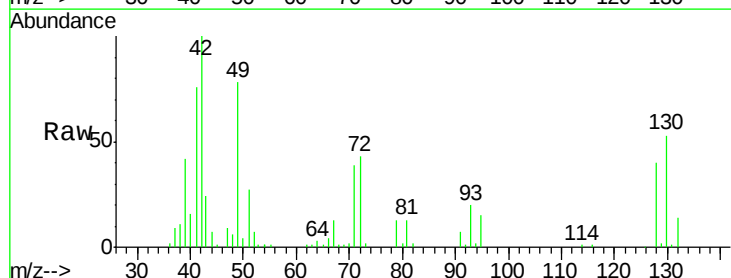
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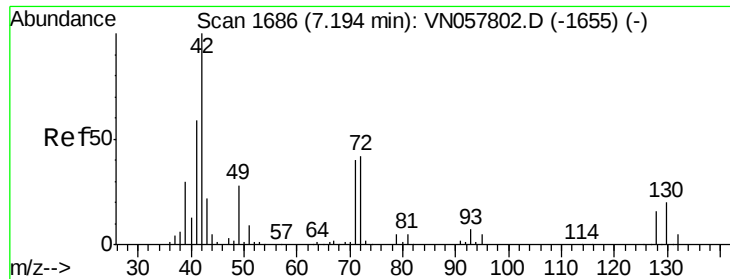
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#28
 Bromochloromethane
 Concen: 22.369 ug/l
 RT: 7.18 min Scan# 1681
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.9	0.0	3.8	
130	68.3	53.0	79.6	





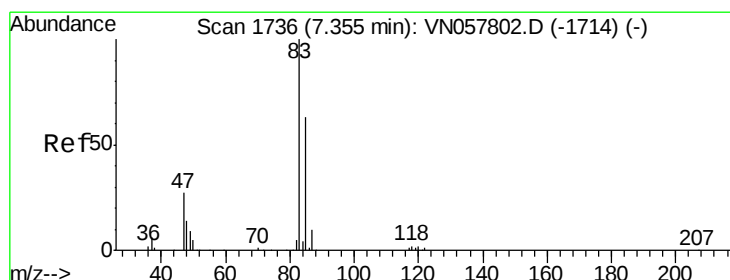
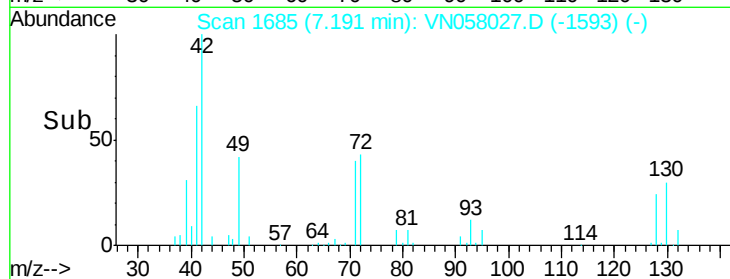
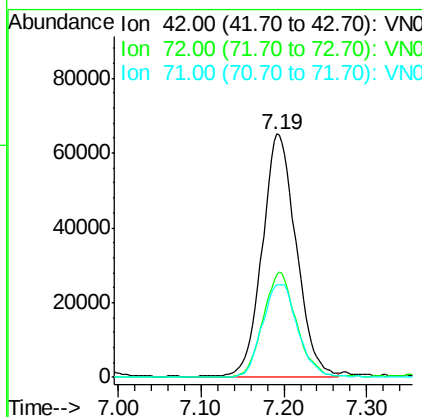
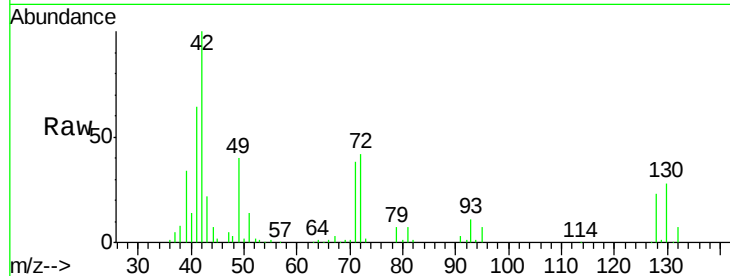
#29
Tetrahydrofuran
Concen: 97.877 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.8	33.7	50.5
71	39.6	31.9	47.9

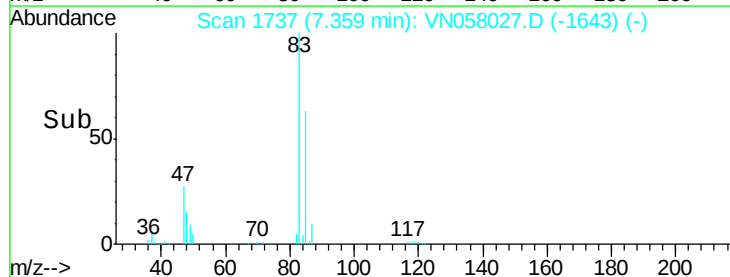
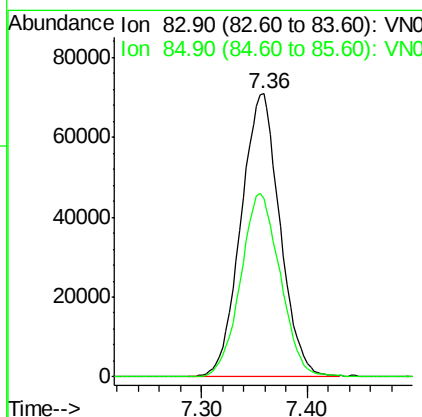
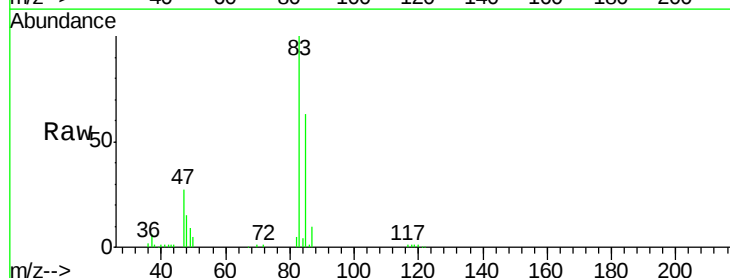
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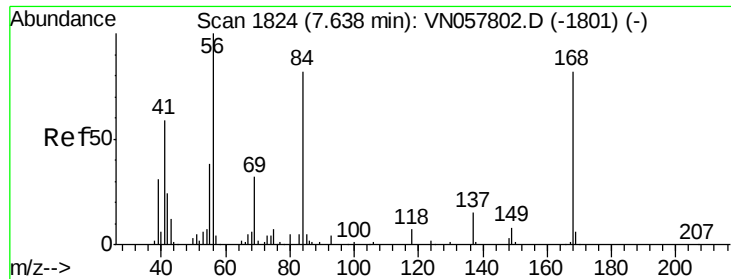
MMDadoda
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#30
Chloroform
Concen: 20.282 ug/l
RT: 7.36 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.6	75.8





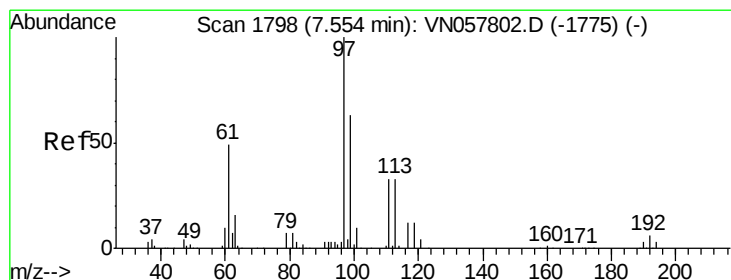
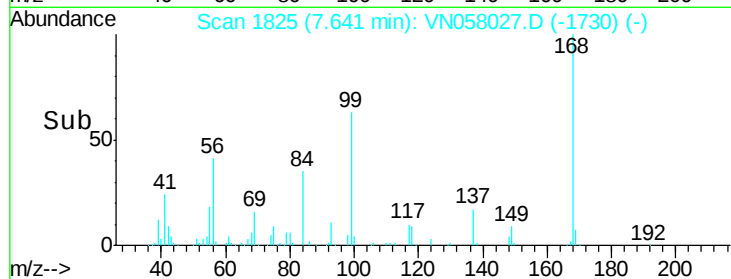
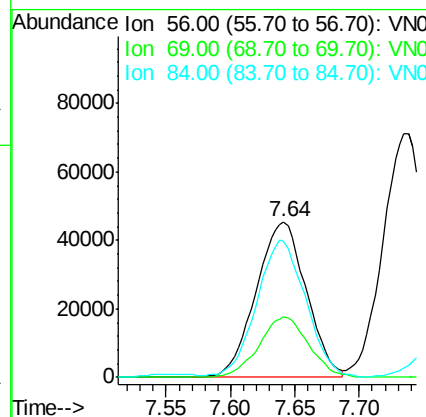
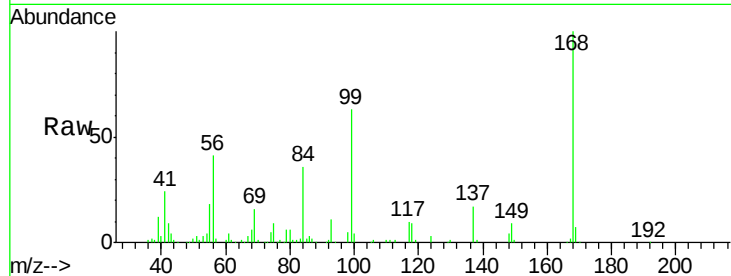
#31
Cyclohexane
Concen: 19.576 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	56	Resp	122792
Ion Ratio	Lower	Upper	
56	100		
69	38.7	25.9	38.9
84	86.4	65.6	98.4

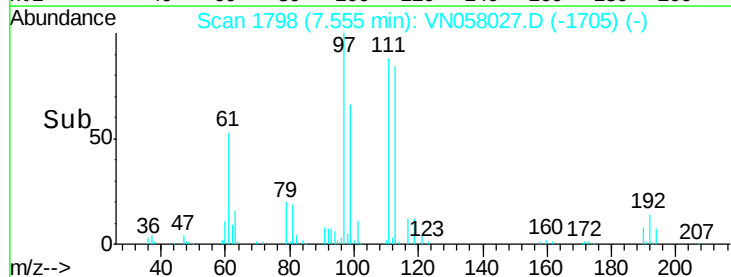
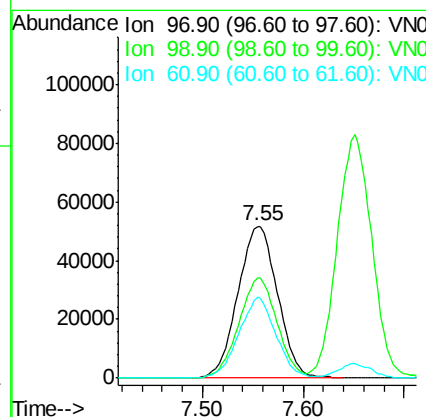
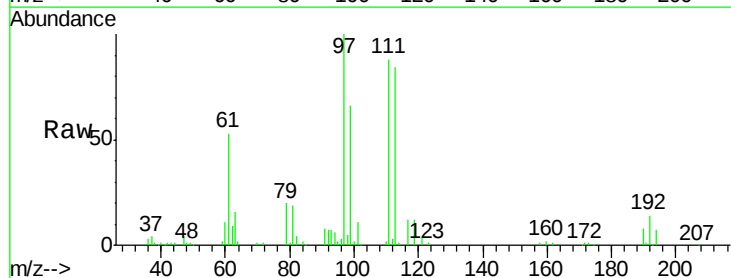
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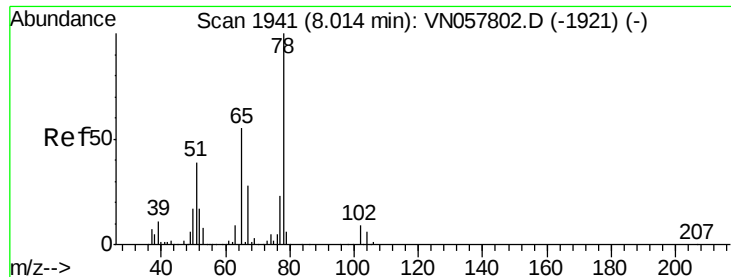
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#32
1,1,1-Trichloroethane
Concen: 19.775 ug/l
RT: 7.55 min Scan# 1798
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion	97	Resp	141131
Ion Ratio	Lower	Upper	
97	100		
99	63.6	51.0	76.4
61	49.9	39.0	58.6





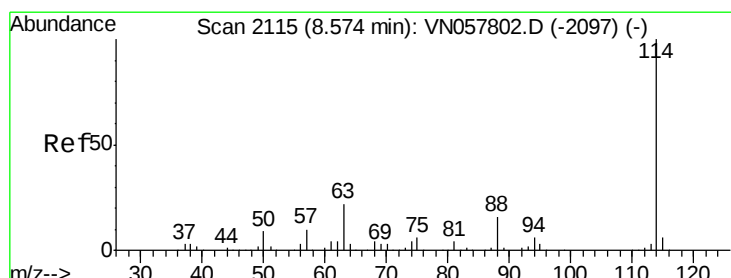
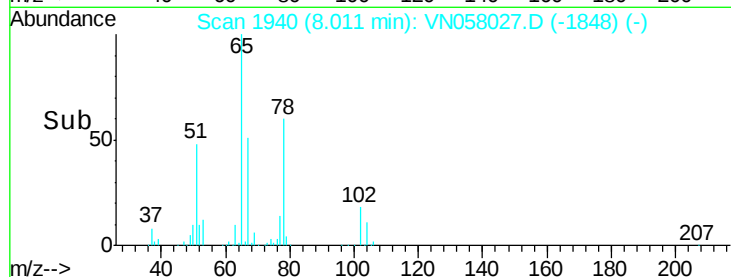
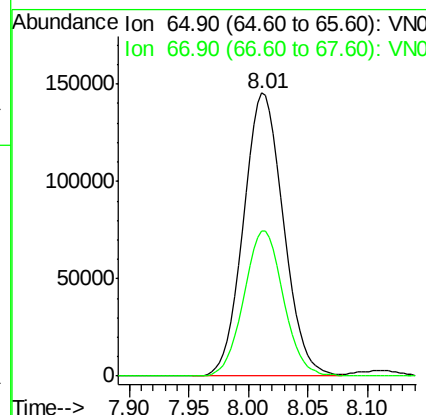
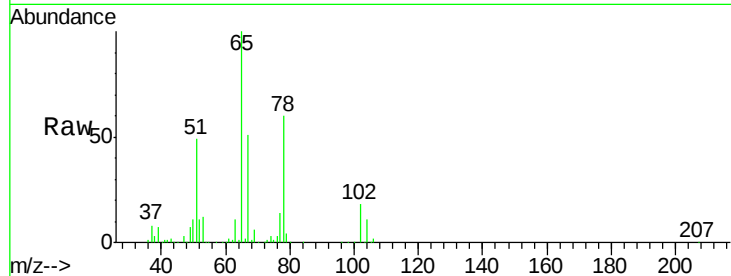
#33
 1,2-Dichloroethane-d4
 Concen: 51.922 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	50.7	0.0	104.0	

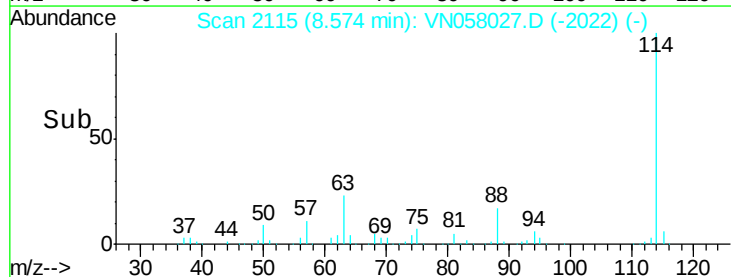
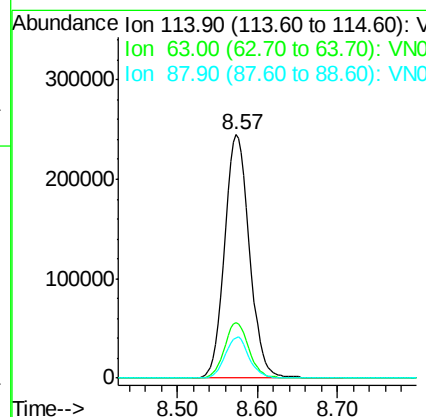
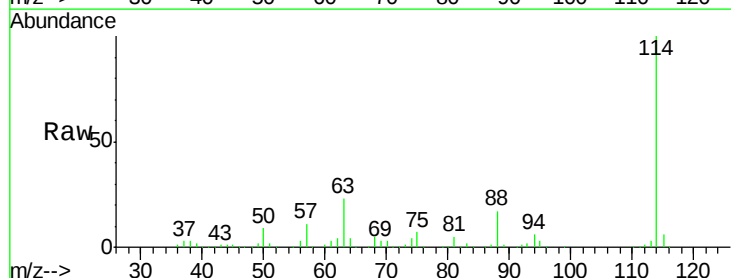
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.9	0.0	44.0	
88	16.7	0.0	31.4	





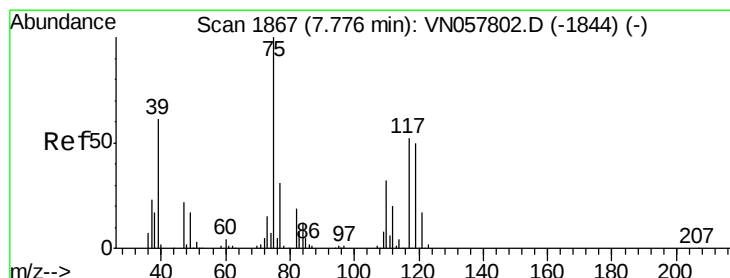
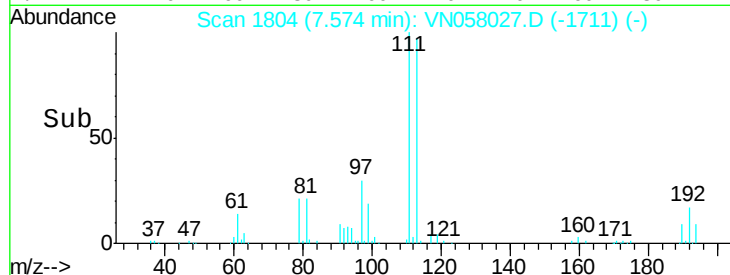
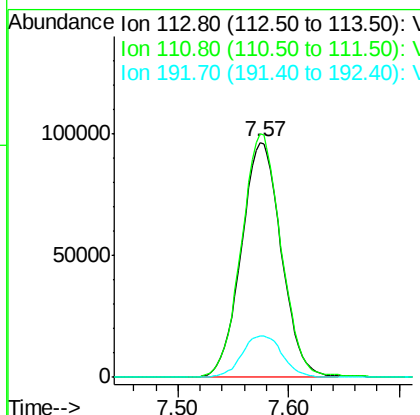
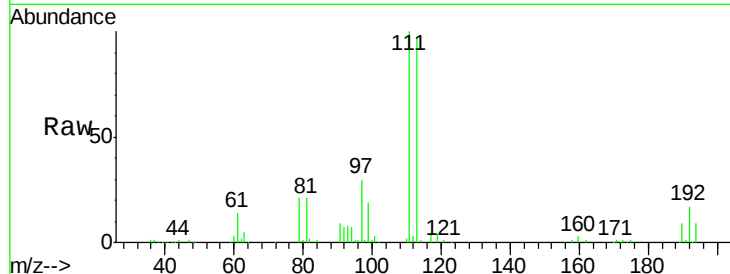
#35
 Dibromofluoromethane
 Concen: 49.980 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Resp	Lower	Upper
113	100	241972		
111	102.9	81.3	121.9	
192	18.0	14.6	22.0	

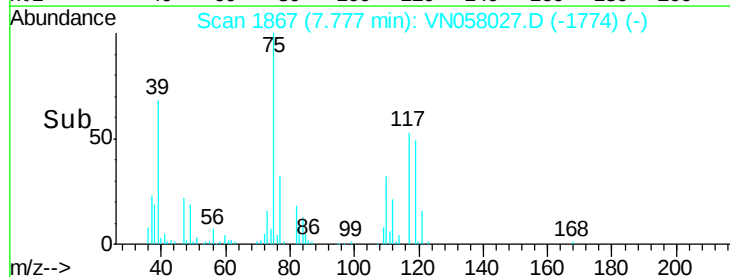
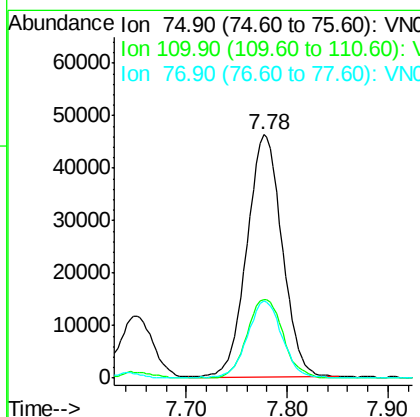
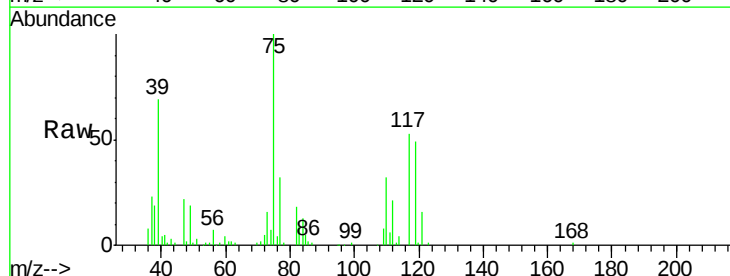
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#36
 1,1-Dichloropropene
 Concen: 18.347 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	111612		
110	33.2	16.3	48.9	
77	31.8	25.0	37.4	





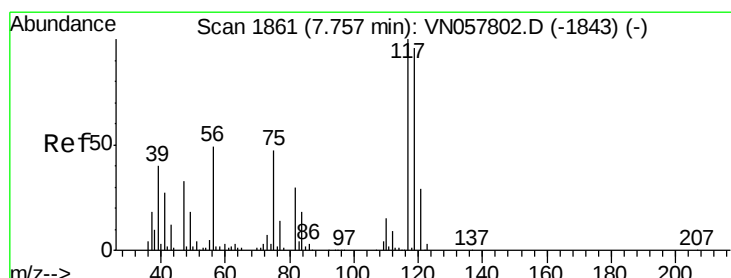
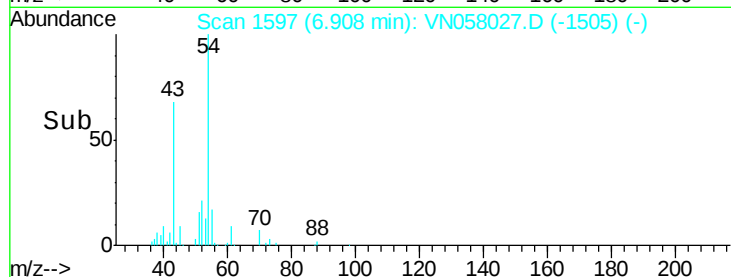
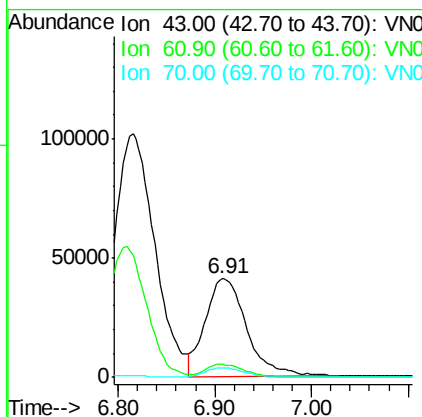
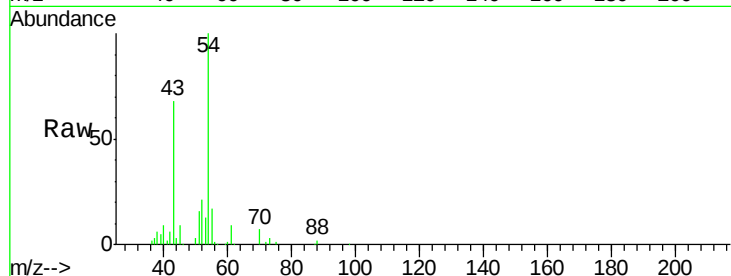
#37
Ethyl Acetate
Concen: 19.308 ug/l
RT: 6.91 min Scan# 1597
Delta R.T. -0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.1	10.5	15.7
70	9.5	7.4	11.0

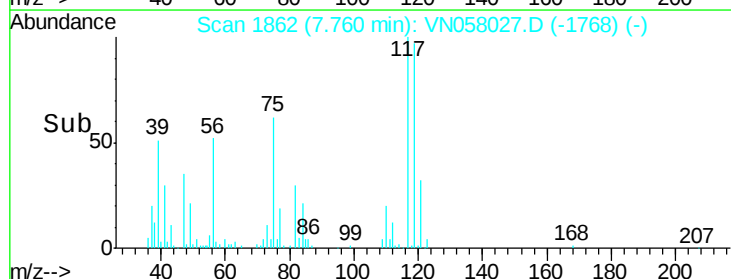
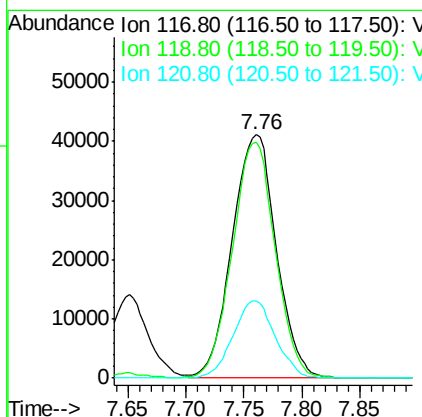
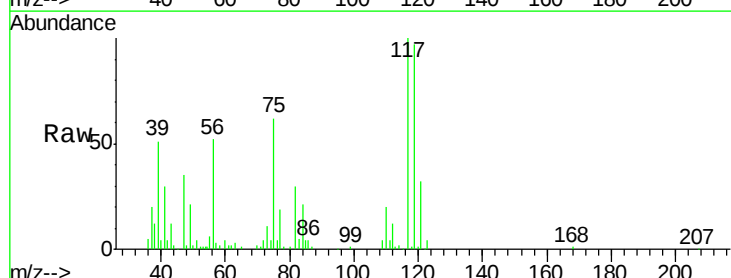
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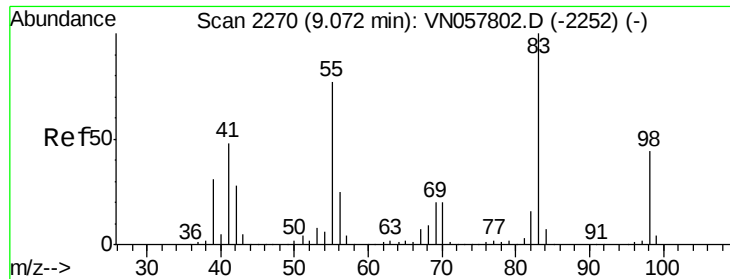
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#38
Carbon Tetrachloride
Concen: 19.667 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.0	76.9	115.3
121	31.9	23.4	35.2





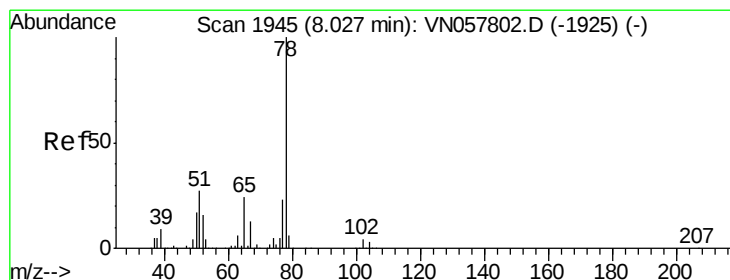
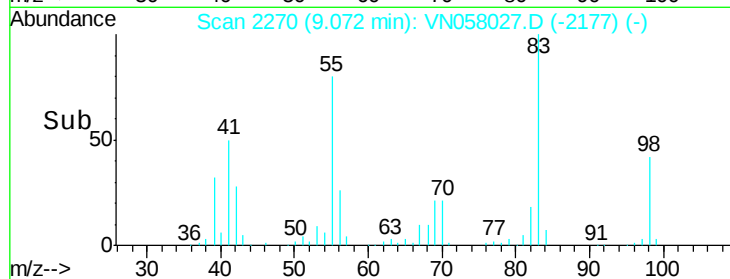
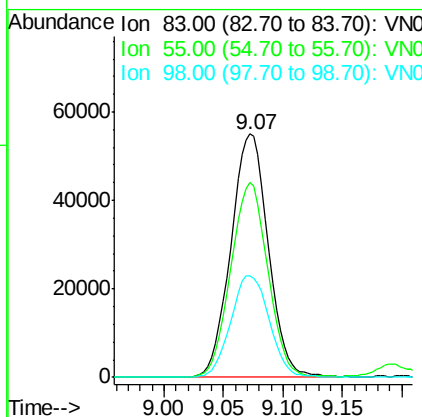
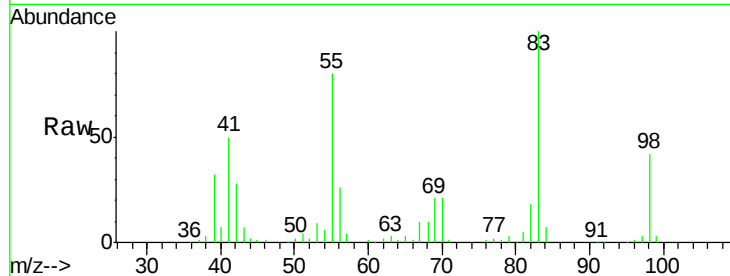
#39
Methvlcvclohexane
Concen: 18.738 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	80.2	61.6	92.4	
98	41.5	34.9	52.3	

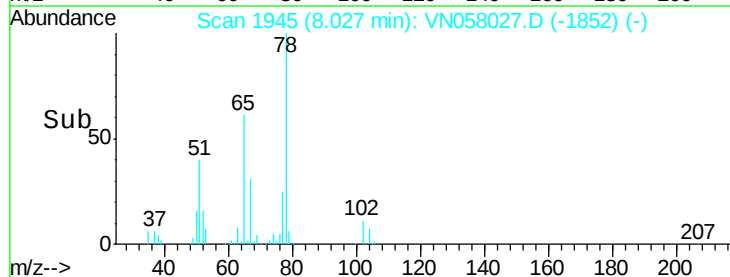
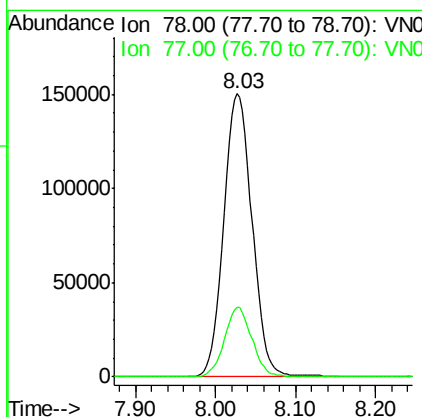
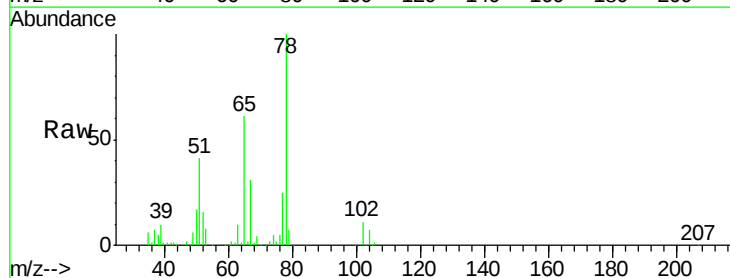
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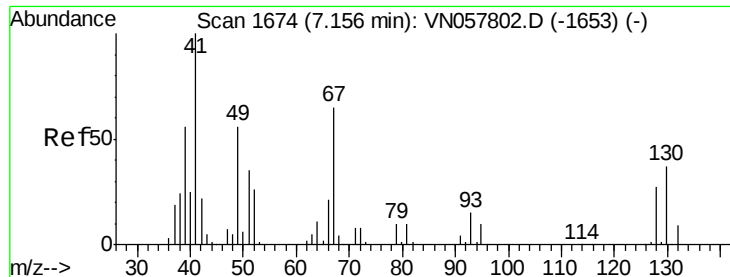
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#40
Benzene
Concen: 19.926 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	24.8	18.3	27.5	





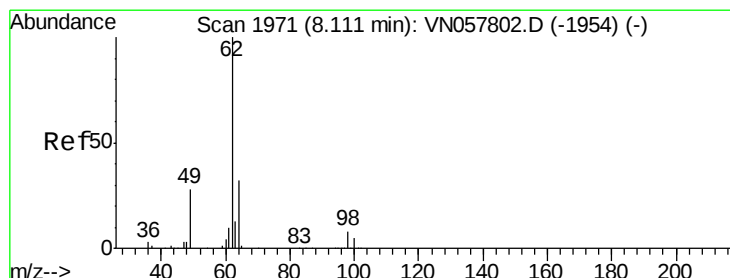
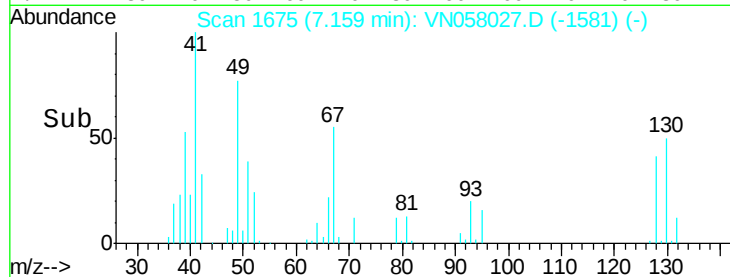
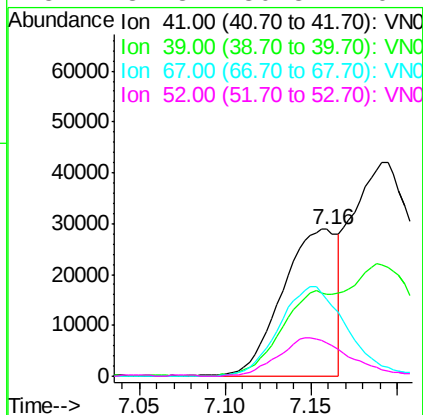
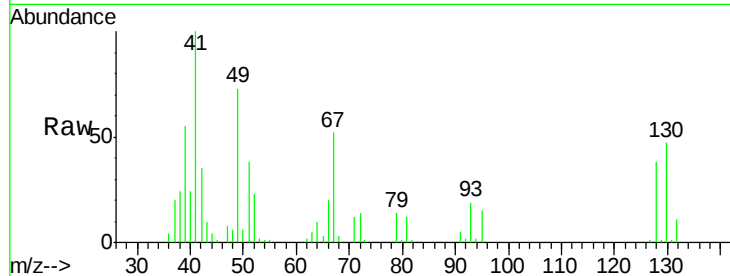
#41
Methacrylonitrile
Concen: 22.513 ug/l
RT: 7.16 min Scan# 1675
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion:	41	Resp:	64232
Ion Ratio	Lower	Upper	
41	100		
39	47.8	51.0	76.6#
67	76.0	70.7	106.1
52	34.3	30.8	46.2

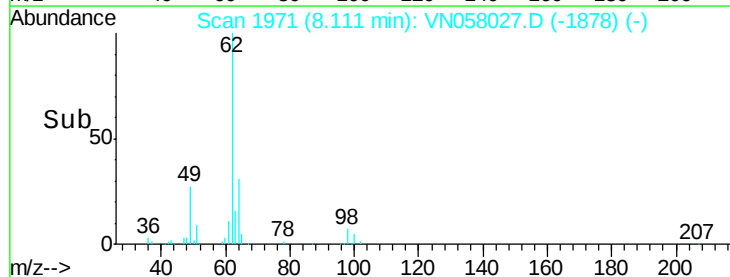
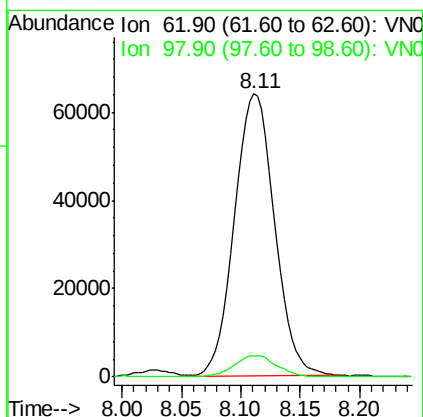
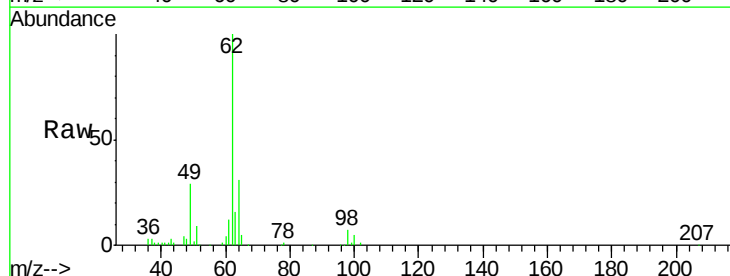
Manual Integrations
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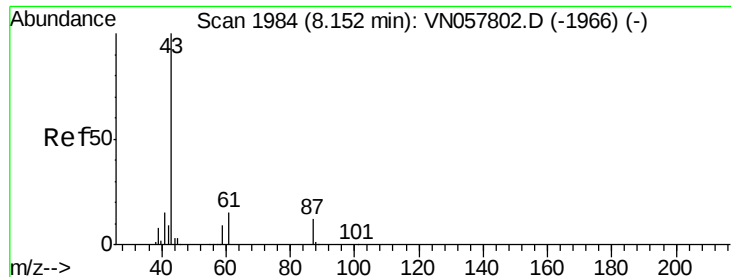
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#42
1,2-Dichloroethane
Concen: 20.449 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion:	62	Resp:	149782
Ion Ratio	Lower	Upper	
62	100		
98	7.9	0.0	15.8





#43

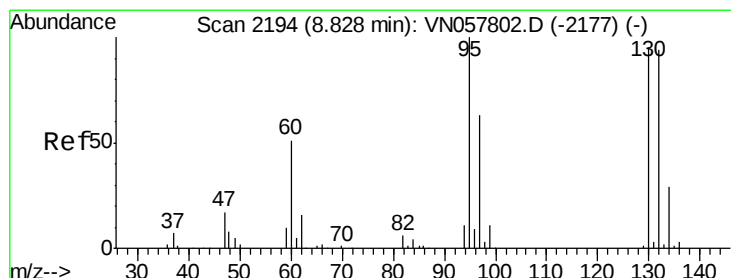
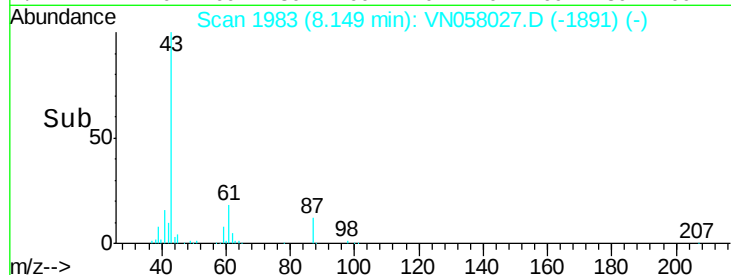
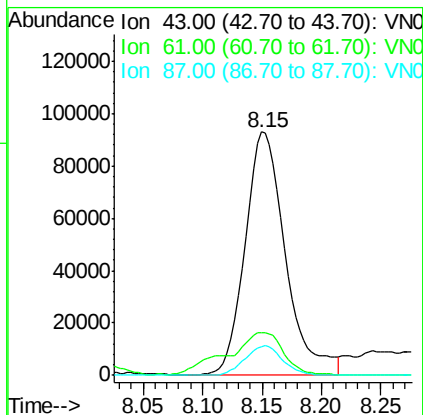
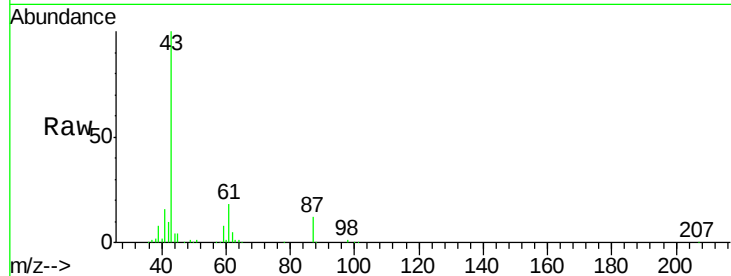
Isopropyl Acetate
 Concen: 20.593 ug/l
 RT: 8.15 min Scan# 1983
 Delta R.T. -0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.7	20.1	30.1#
87	11.5	9.5	14.3

Manual Integrations
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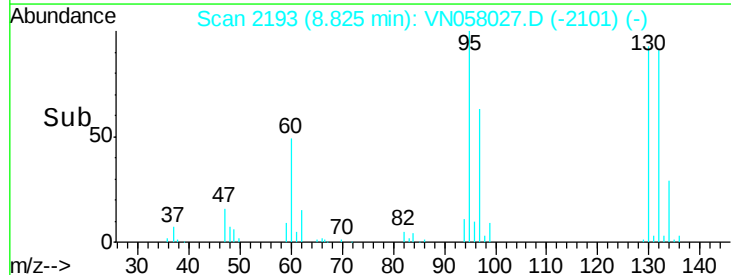
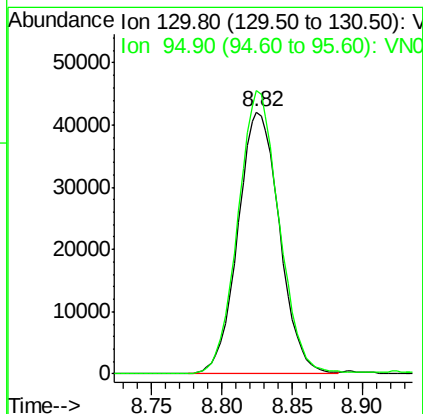
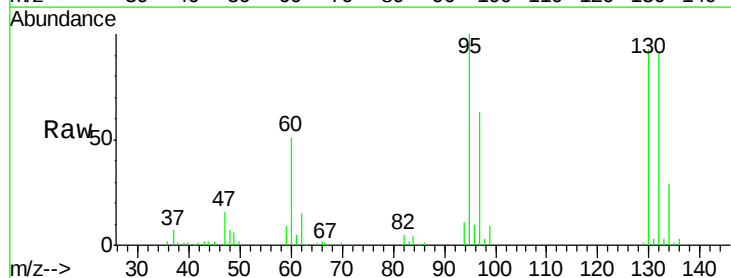
MMDadoda
 9/16/2019 2:11:38 PM

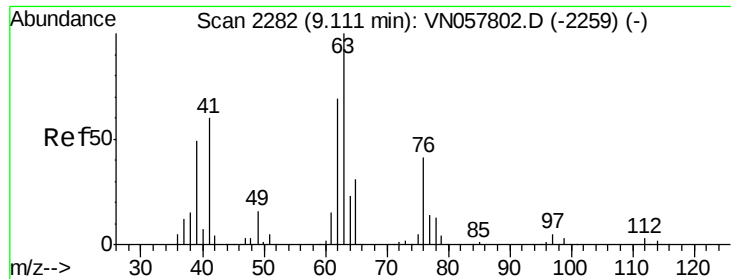


#44

Trichloroethene
 Concen: 19.385 ug/l
 RT: 8.82 min Scan# 2193
 Delta R.T. -0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
130	100		
95	108.0	0.0	211.4





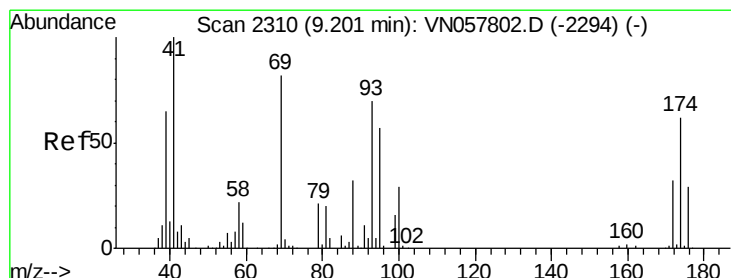
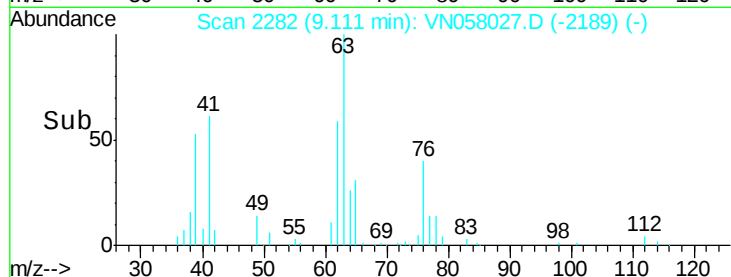
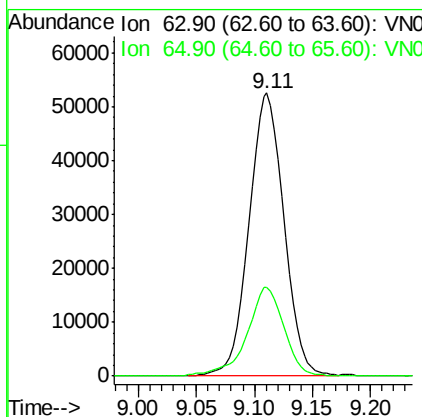
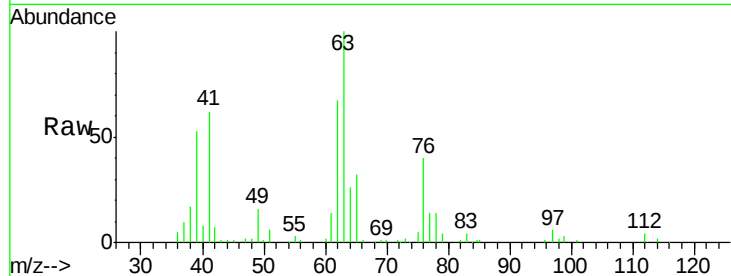
#45
 1,2-Dichloropropane
 Concen: 20.734 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion: 63 Resp: 110498
 Ion Ratio Lower Upper
 63 100
 65 31.5 24.8 37.2

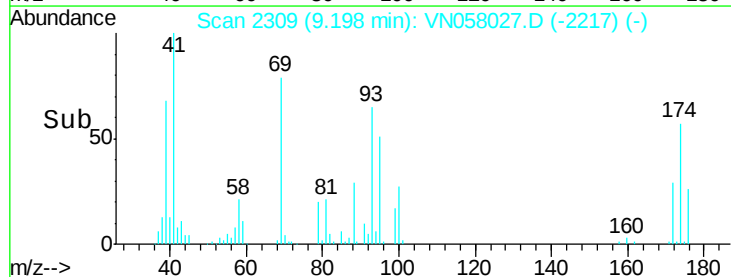
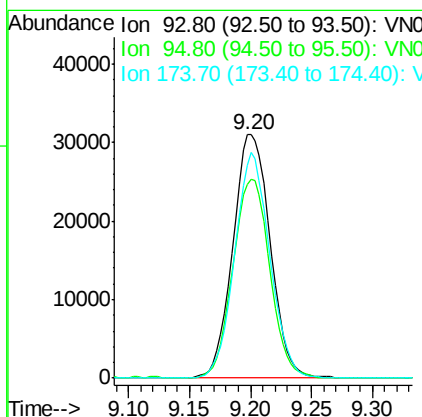
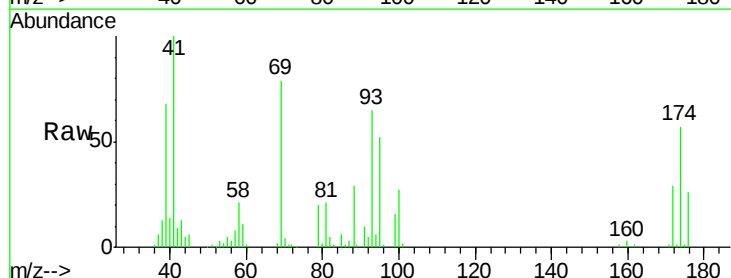
Manual Integrations
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#46
 Dibromomethane
 Concen: 20.401 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Tgt Ion: 93 Resp: 65699
 Ion Ratio Lower Upper
 93 100
 95 80.8 65.9 98.9
 174 87.3 71.8 107.6





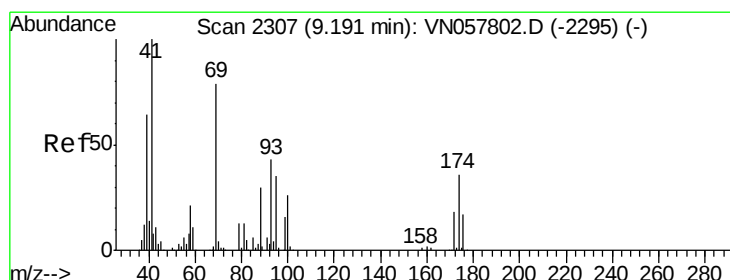
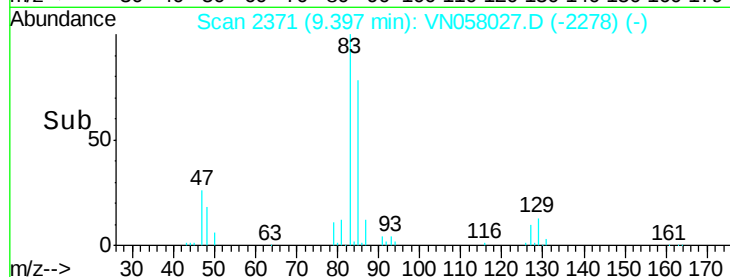
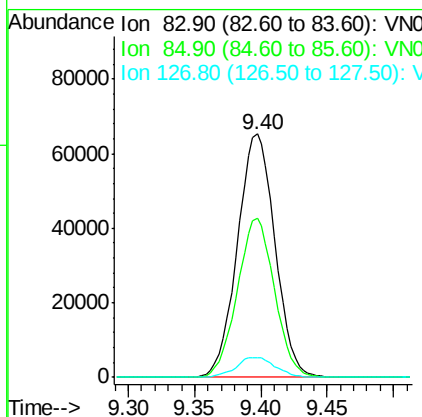
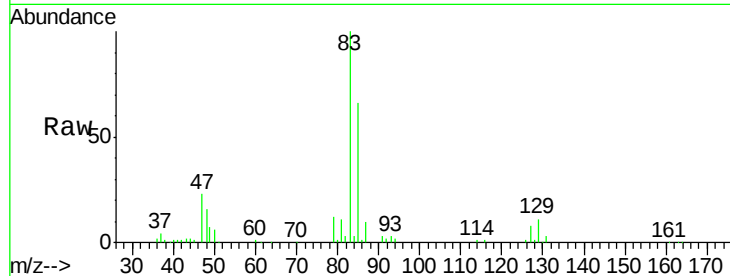
#47
Bromodichloromethane
Concen: 19.954 ug/l
RT: 9.40 min Scan# 2371
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	65.5	49.9	74.9	
127	8.2	6.5	9.7	

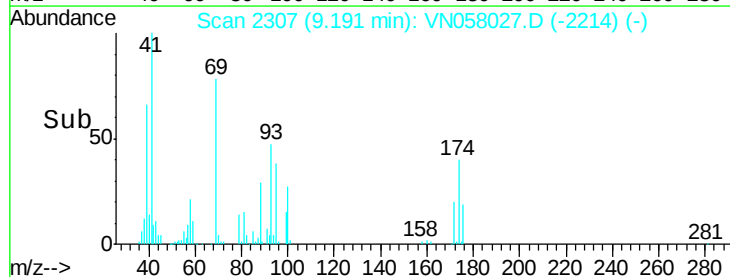
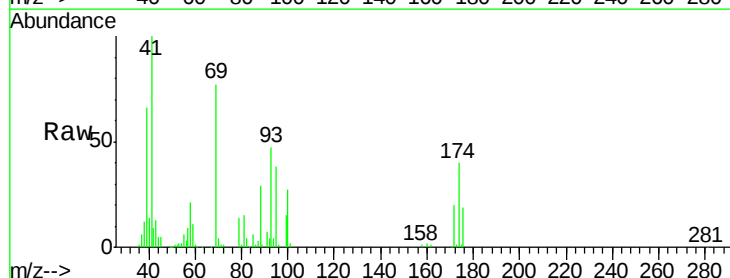
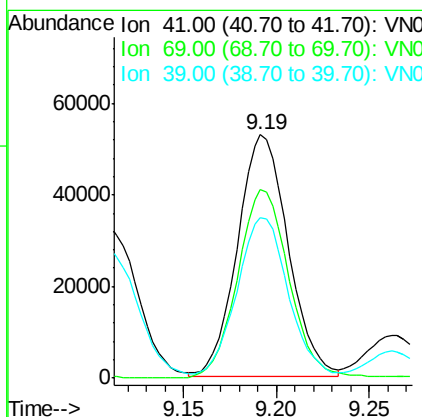
Manual Integrations
APPROVED

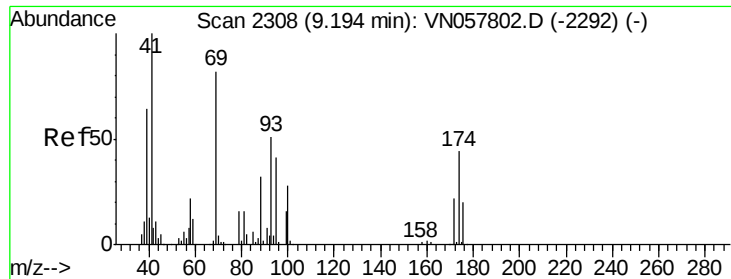
MMDadoda
9/16/2019 2:11:38 PM



#48
Methyl methacrylate
Concen: 18.717 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	79.6	62.7	94.1	
39	67.4	52.7	79.1	





#49

1,4-Dioxane

Concen: 355.685 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. -0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

MSVOA_N

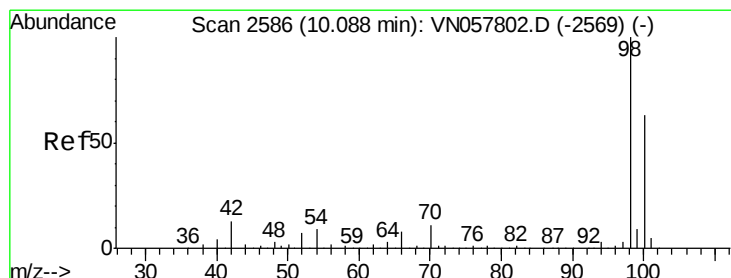
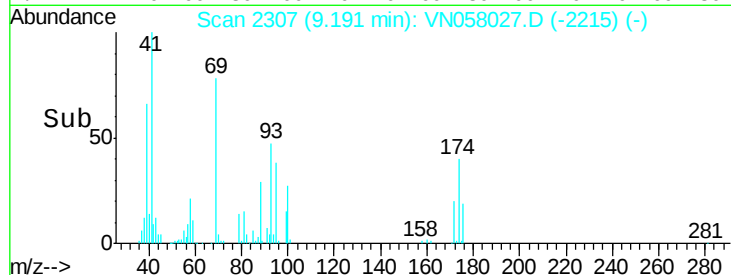
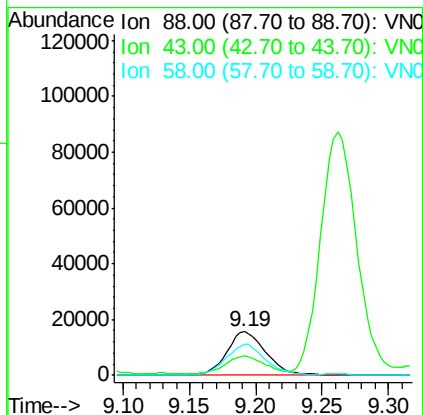
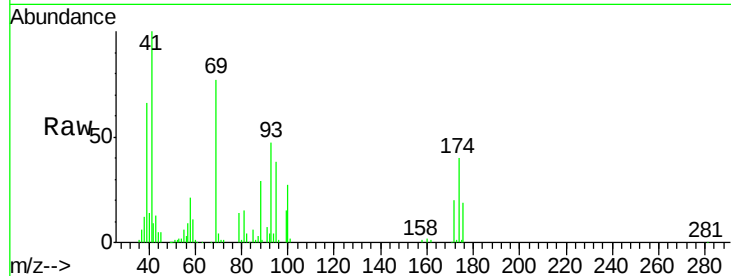
ClientSampleId :

VN0914WBSD03

Tot Ion:	88	Resp:	32250
Ion	Ratio	Lower	Upper
88	100		
43	40.2	28.5	42.7
58	70.8	55.8	83.6

Manual Integrations
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#50

Toluene-d8

Concen: 51.033 ug/l

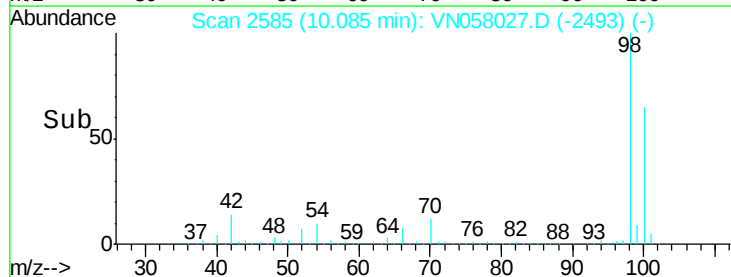
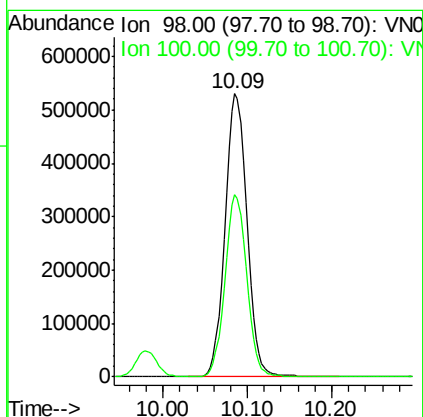
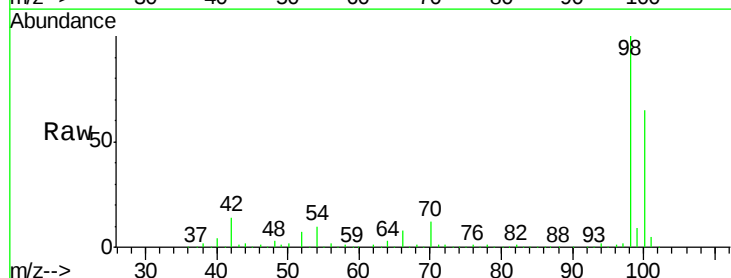
RT: 10.09 min Scan# 2585

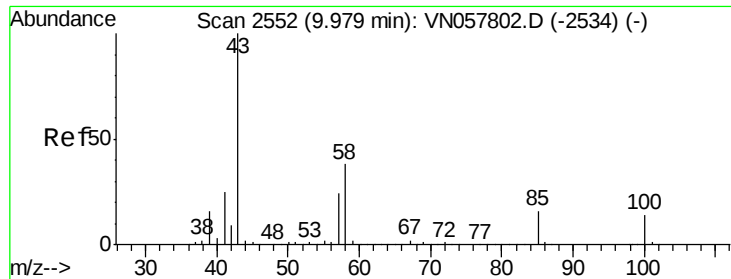
Delta R.T. -0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Tgt Ion:	98	Resp:	959247
Ion	Ratio	Lower	Upper
98	100		
100	64.3	50.3	75.5





#51

4-Methyl-2-Pentanone

Concen: 104.555 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 43 Resp: 653975

Ion Ratio Lower Upper

43 100

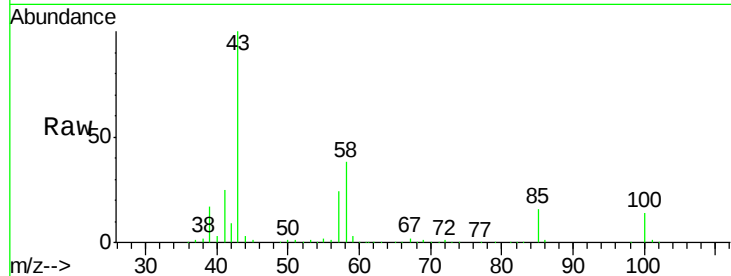
58 36.7 29.8 44.6

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

9.98

400000

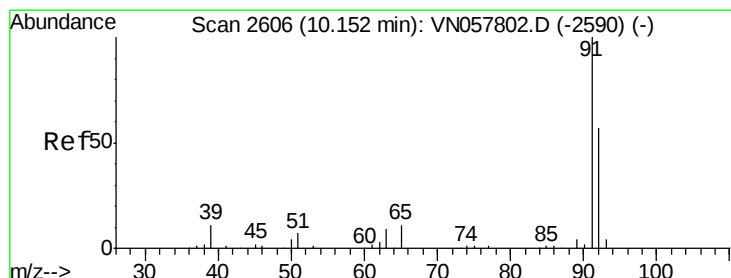
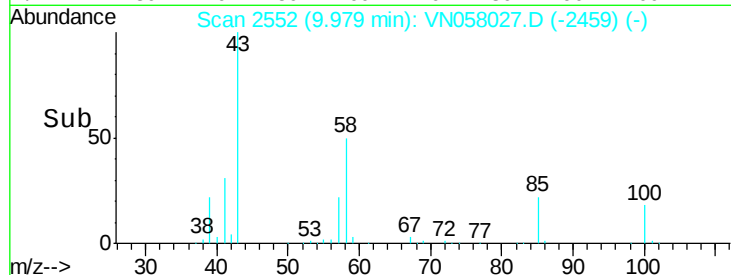
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 19.583 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058027.D

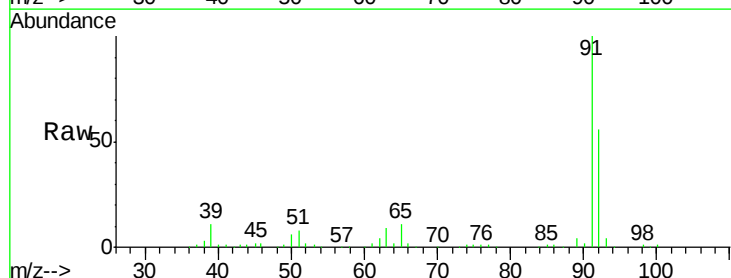
Acq: 13 Sep 2019 19:23

Tgt Ion: 92 Resp: 225892

Ion Ratio Lower Upper

92 100

91 176.7 141.0 211.6



Abundance Ion 92.00 (91.70 to 92.70): VN057802.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VN057802.D (-2590) (-)

10.15

250000

200000

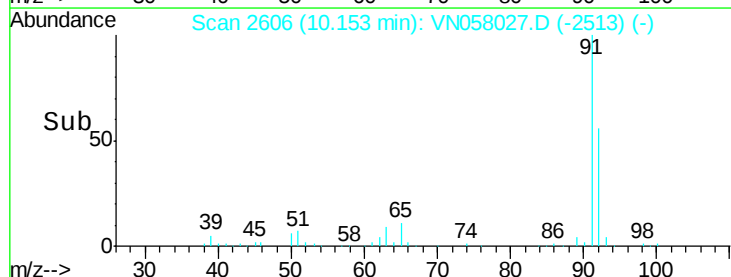
150000

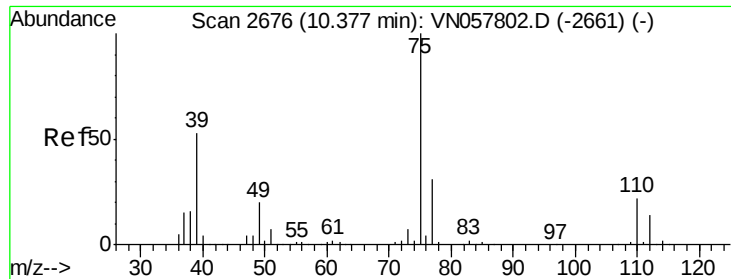
100000

50000

0

Time-->





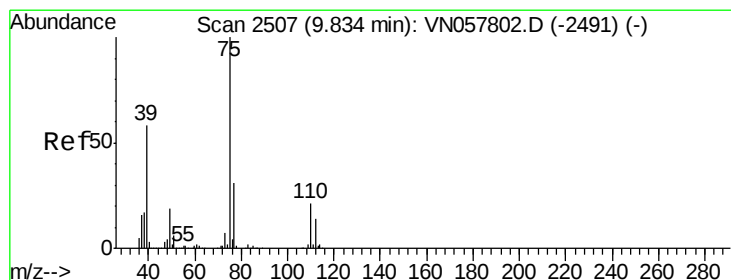
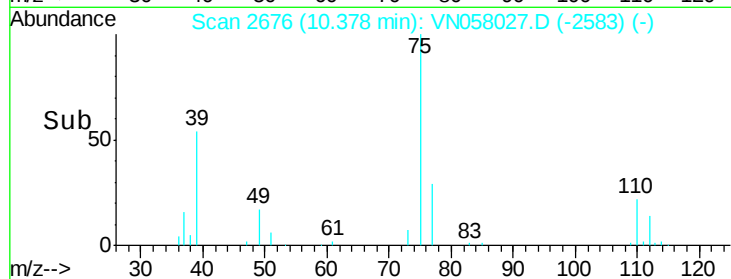
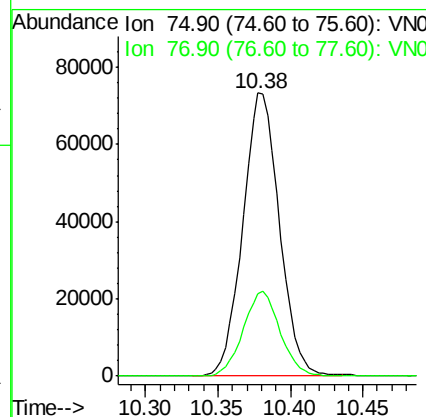
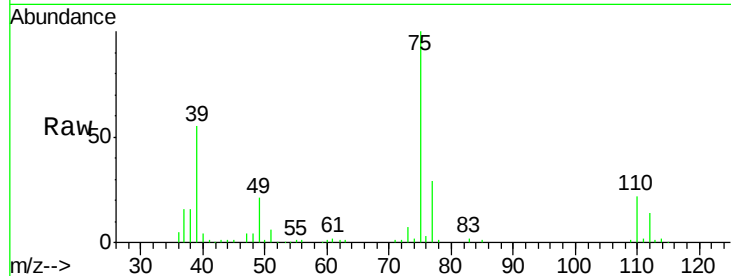
#53
t-1,3-Dichloropropene
Concen: 19.006 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion: 75 Resp: 128709
Ion Ratio Lower Upper
75 100
77 28.9 24.5 36.7

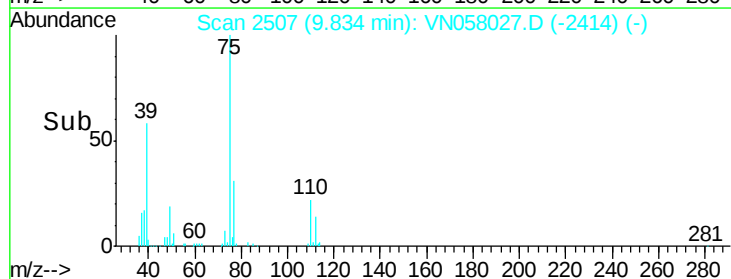
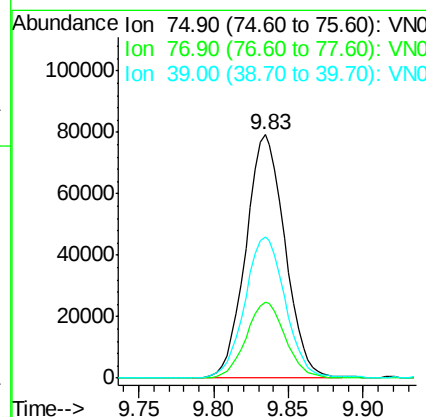
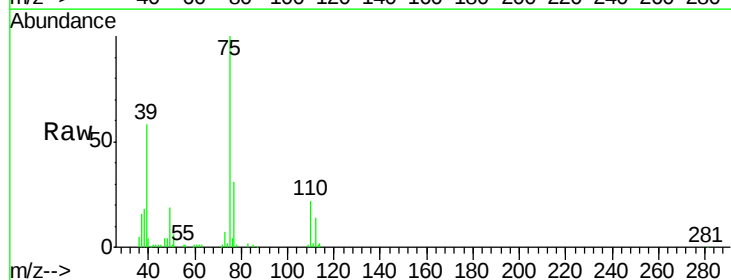
Manual Integrations
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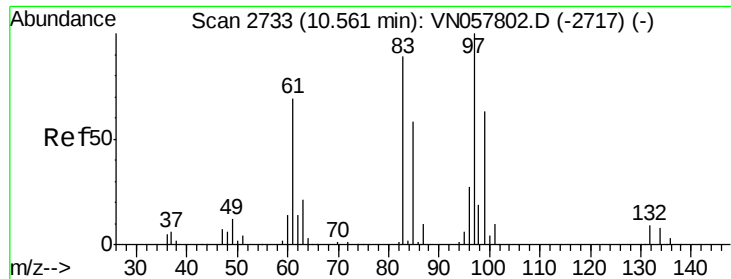
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#54
cis-1,3-Dichloropropene
Concen: 19.319 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion: 75 Resp: 144443
Ion Ratio Lower Upper
75 100
77 31.4 24.8 37.2
39 57.8 46.2 69.4





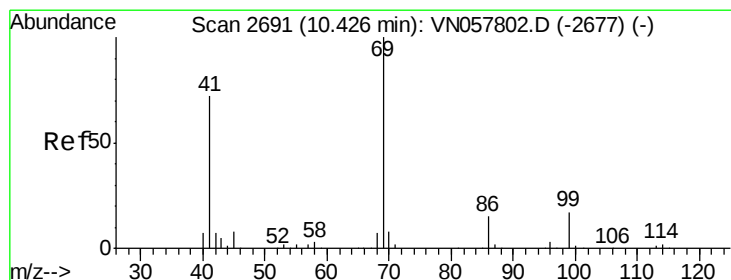
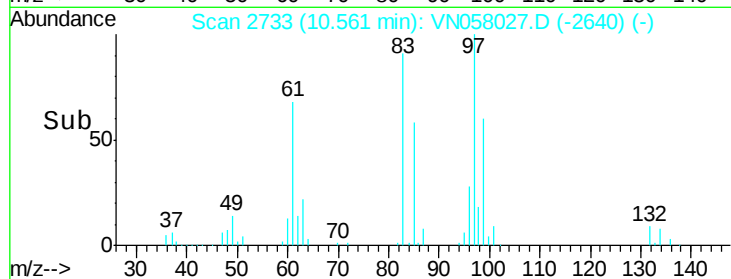
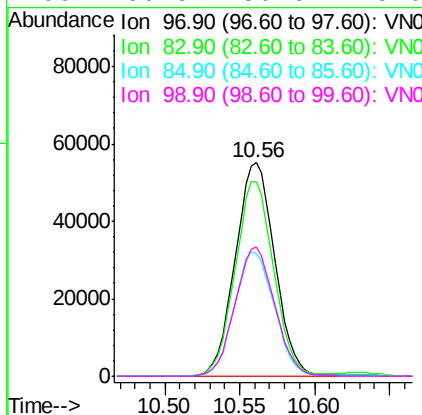
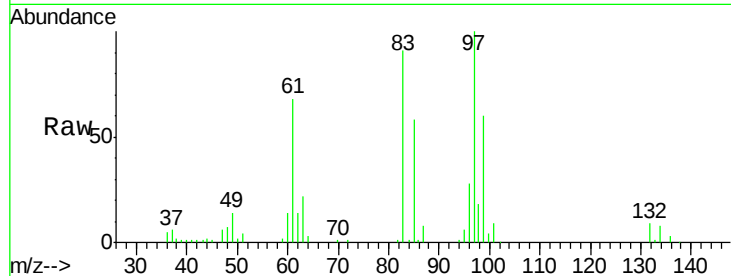
#55
 1,1,2-Trichloroethane
 Concen: 20.708 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion:	97	Resp:	101187
Ion Ratio	Lower	Upper	
97	100		
83	91.0	70.8	106.2
85	57.6	46.0	69.0
99	60.5	50.6	76.0

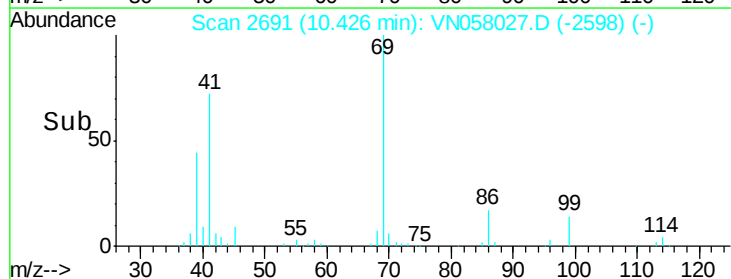
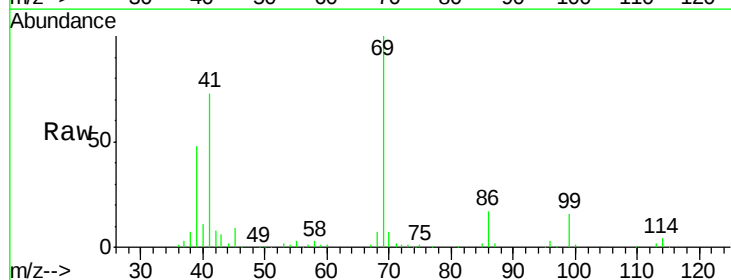
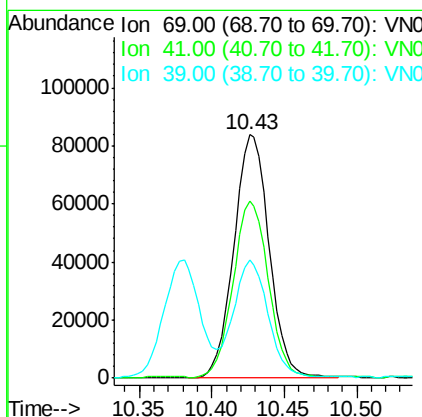
Manual Integrations
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#56
 Ethyl methacrylate
 Concen: 19.272 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Tgt Ion:	69	Resp:	141807
Ion Ratio	Lower	Upper	
69	100		
41	71.9	56.7	85.1
39	46.8	36.3	54.5





#57

1,3-Dichloropropane

Concen: 20.613 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 76 Resp: 173577

Ion Ratio Lower Upper

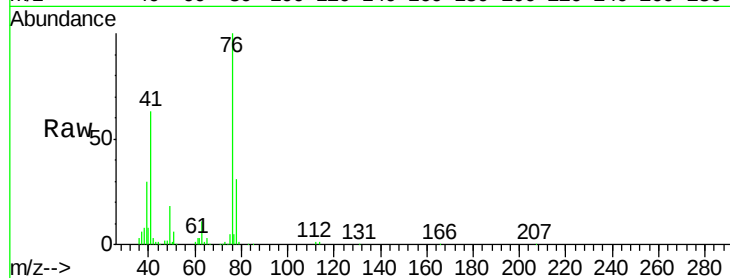
76 100

78 31.9 25.4 38.2

Manual Integrations
APPROVED

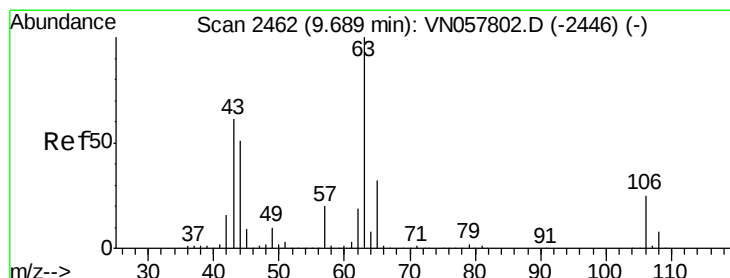
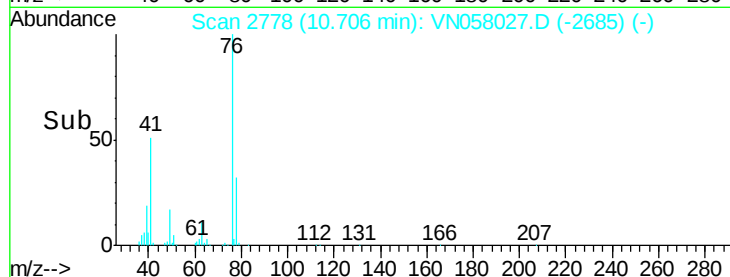
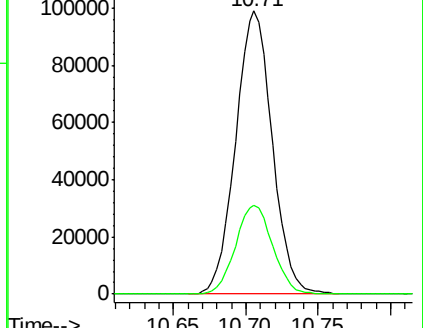
MMDadoda

9/16/2019 2:11:38 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 91.535 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN058027.D

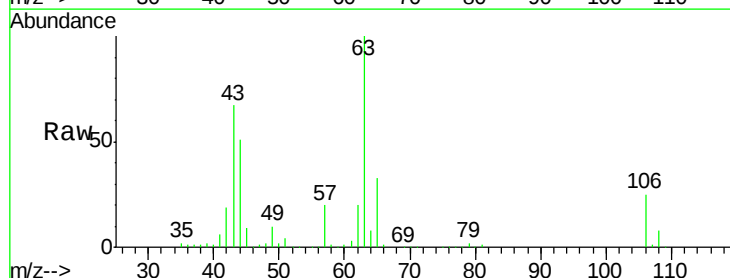
Acq: 13 Sep 2019 19:23

Tgt Ion: 63 Resp: 317229

Ion Ratio Lower Upper

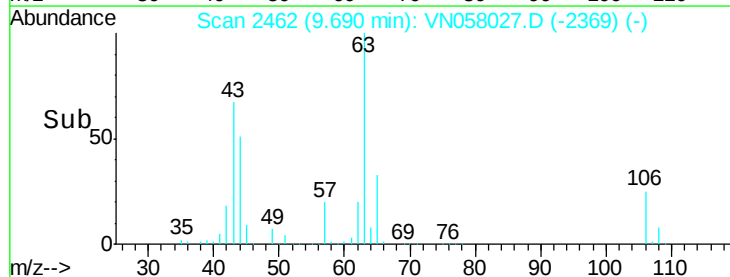
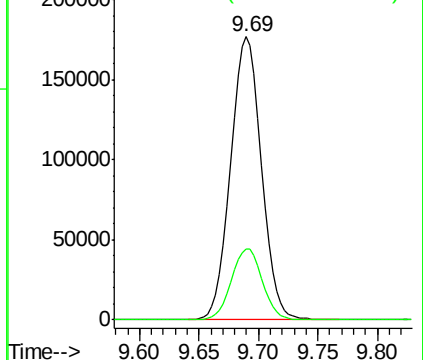
63 100

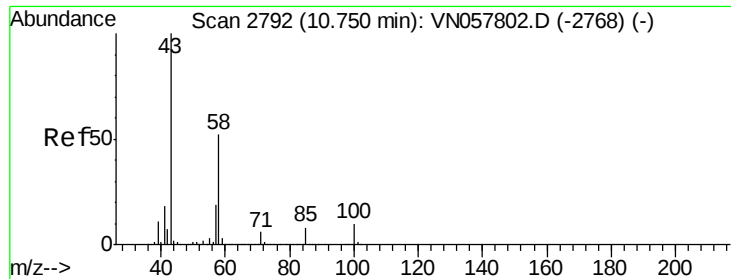
106 25.2 20.0 30.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





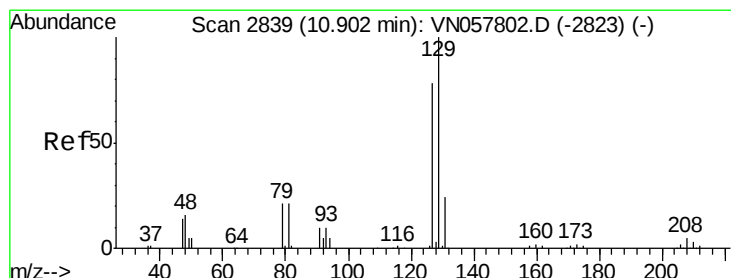
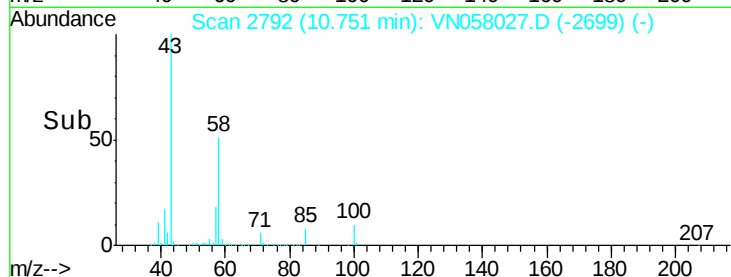
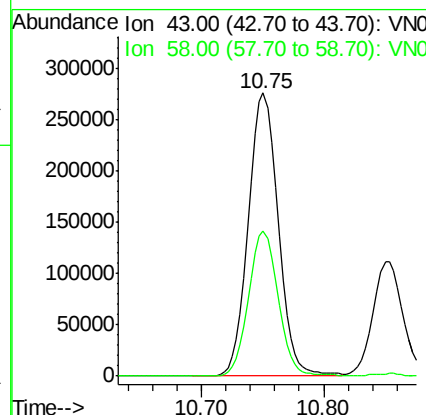
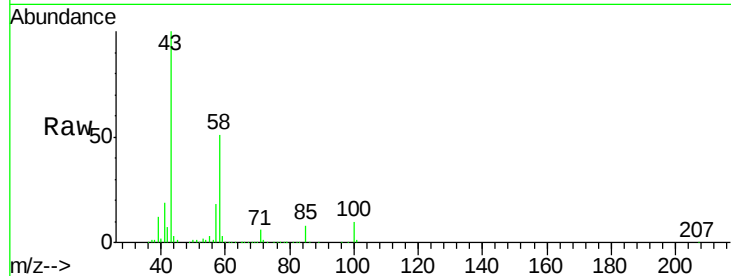
#59
2-Hexanone
Concen: 98.589 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion: 43 Resp: 462206
Ion Ratio Lower Upper
43 100
58 51.0 25.6 76.8

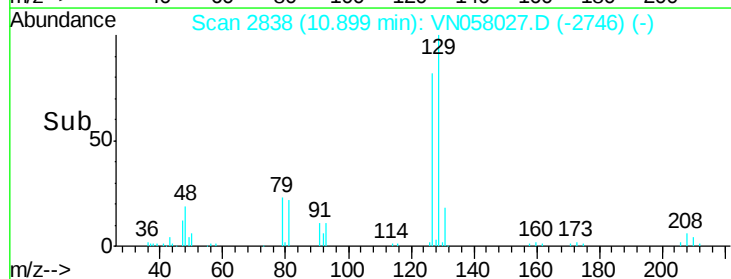
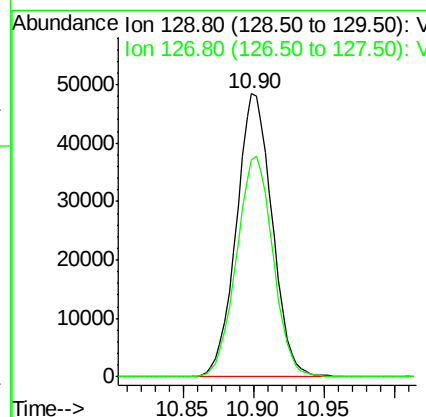
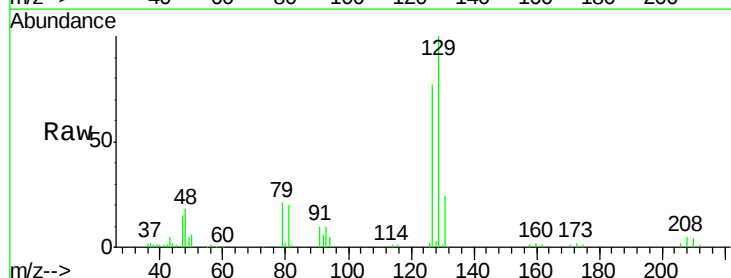
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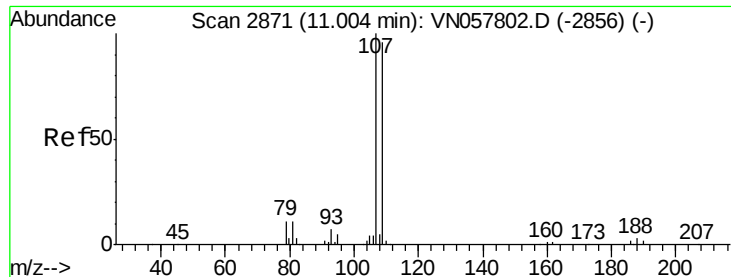
MMDadoda
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#60
Dibromochloromethane
Concen: 19.002 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion: 129 Resp: 86219
Ion Ratio Lower Upper
129 100
127 79.2 38.6 116.0





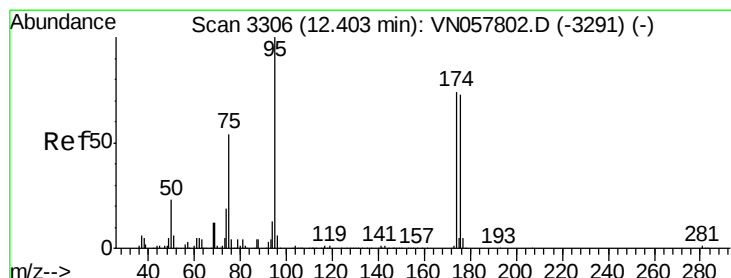
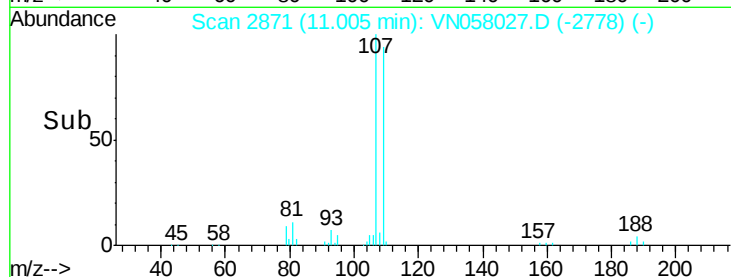
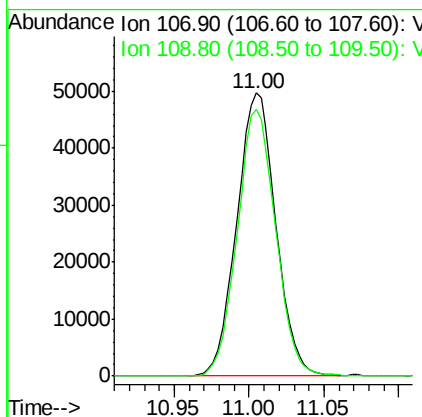
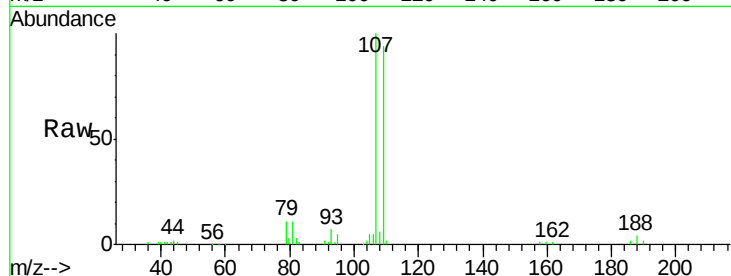
#61
 1,2-Dibromoethane
 Concen: 19.533 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.7	75.3	112.9

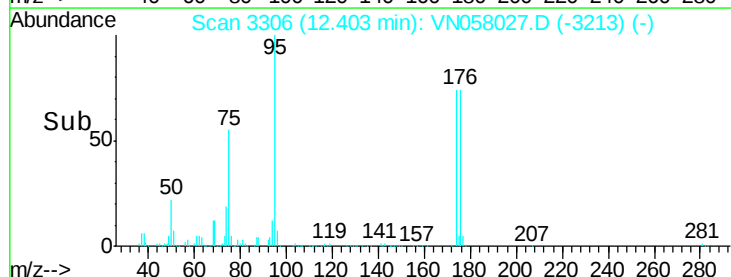
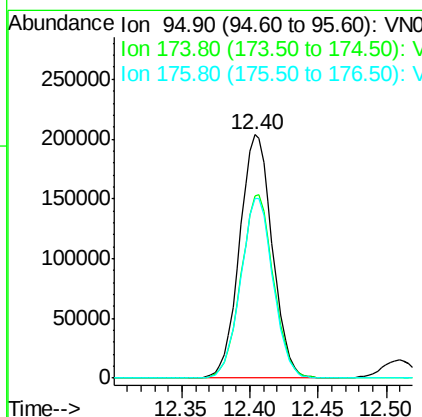
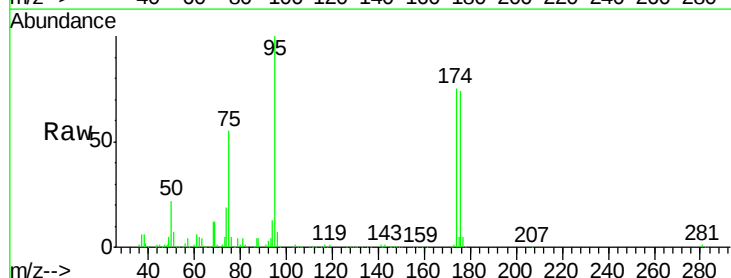
Manual Integrations
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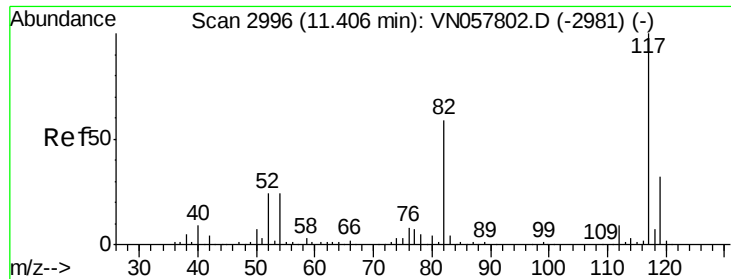
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#62
 4-Bromofluorobenzene
 Concen: 47.289 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
95	100		
174	74.8	0.0	150.2
176	73.1	0.0	146.0





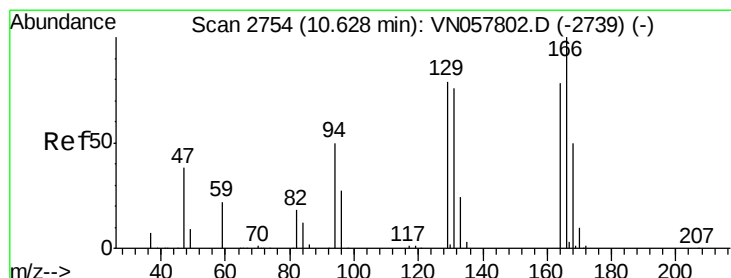
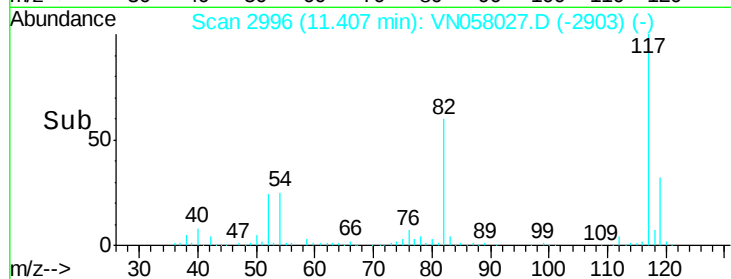
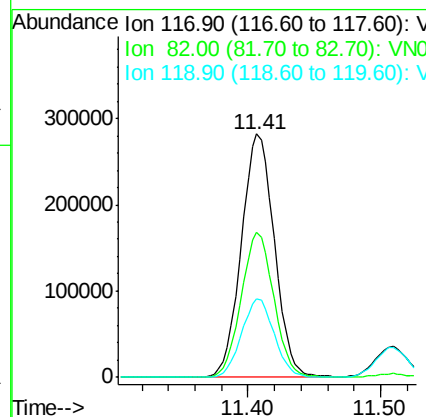
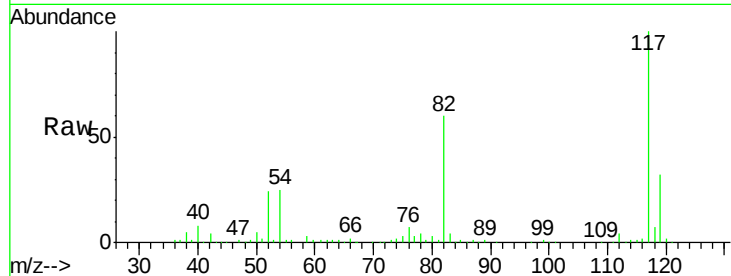
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.6	47.2	70.8
119	32.3	25.3	37.9

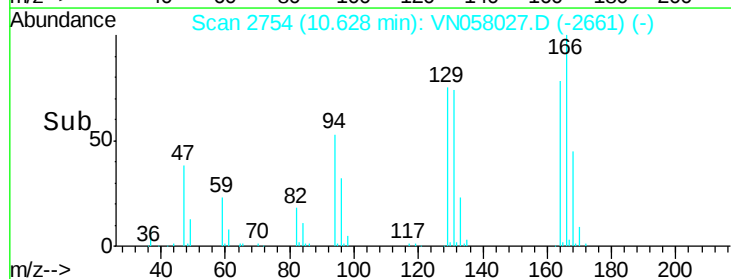
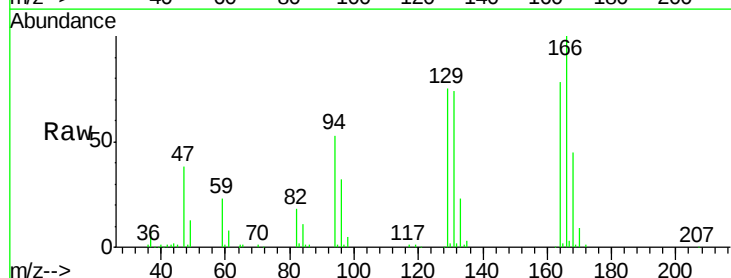
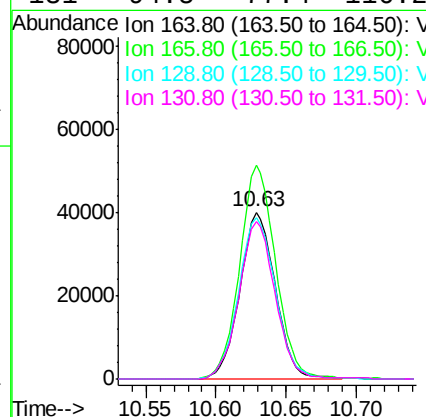
Manual Integrations
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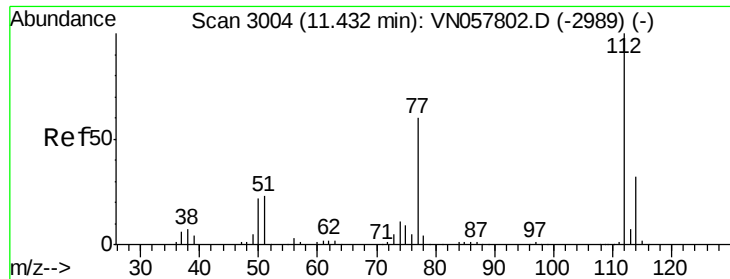
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#64
Tetrachloroethene
Concen: 19.615 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.2	102.2	153.2
129	96.6	80.8	121.2
131	94.5	77.4	116.2





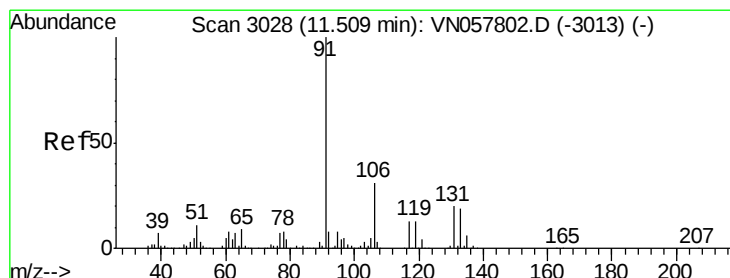
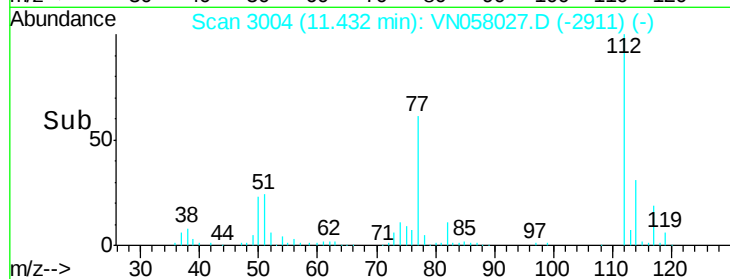
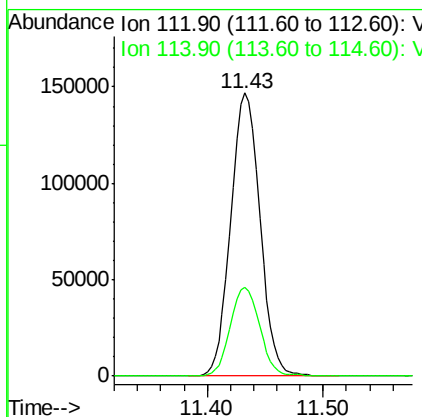
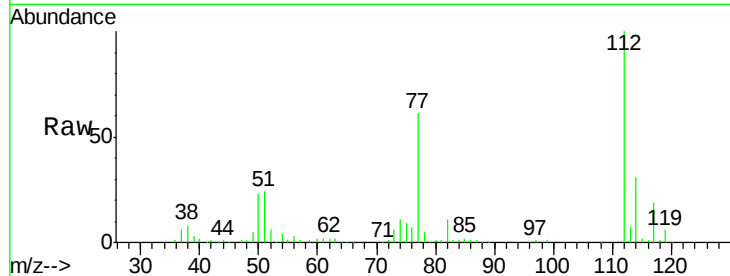
#65
Chlorobenzene
Concen: 20.053 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion:112 Resp: 256096
Ion Ratio Lower Upper
112 100
114 31.5 25.2 37.8

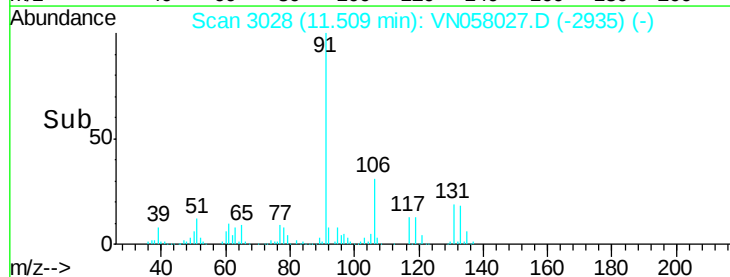
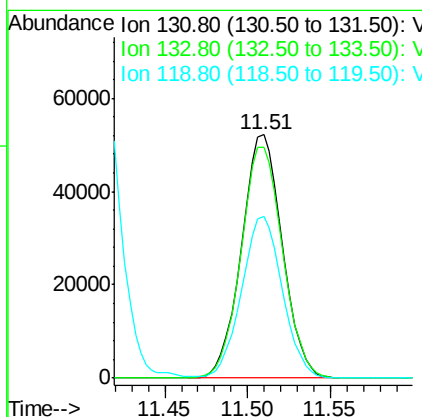
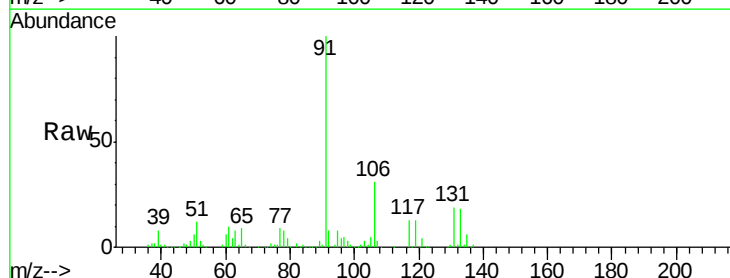
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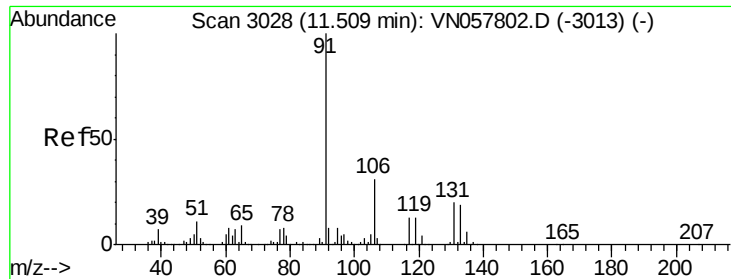
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.179 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion:131 Resp: 89425
Ion Ratio Lower Upper
131 100
133 97.3 47.1 141.3
119 66.3 33.3 99.8





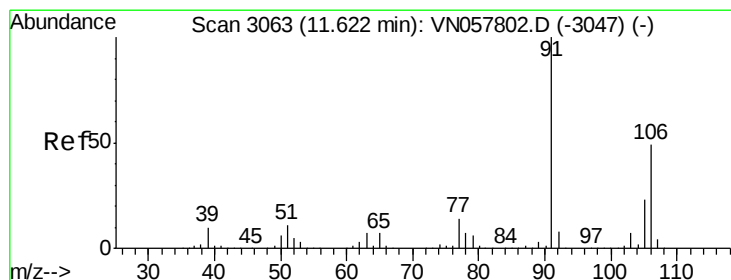
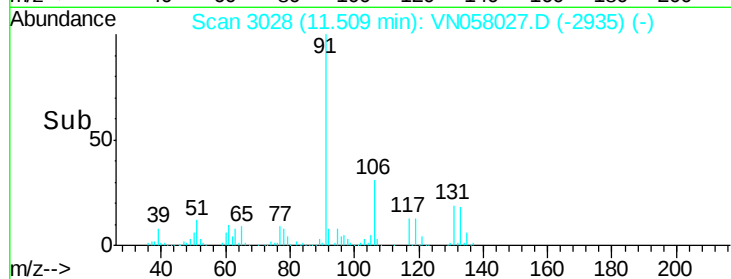
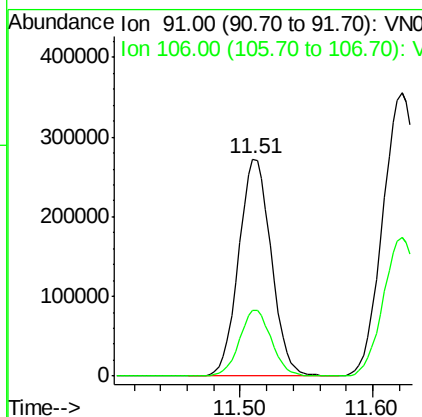
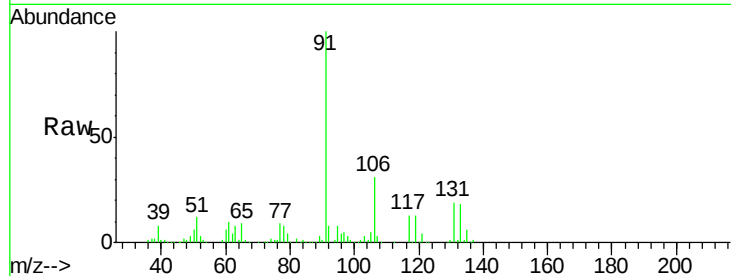
#67
Ethyl Benzene
Concen: 20.762 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion: 91 Resp: 464691
Ion Ratio Lower Upper
91 100
106 30.5 24.4 36.6

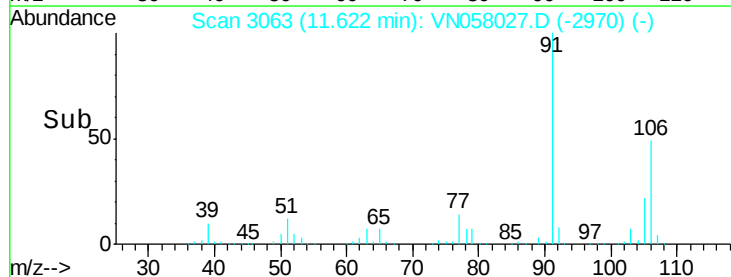
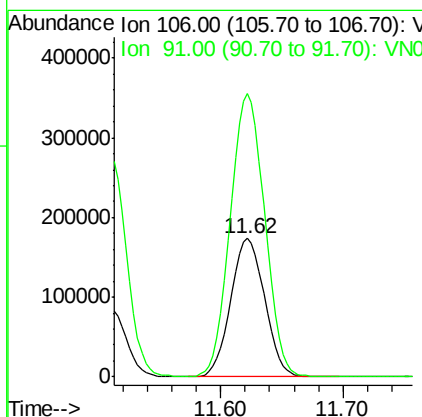
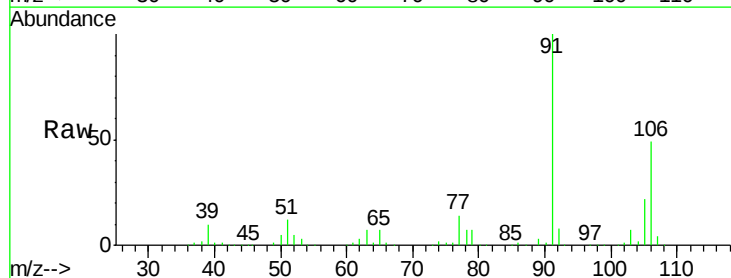
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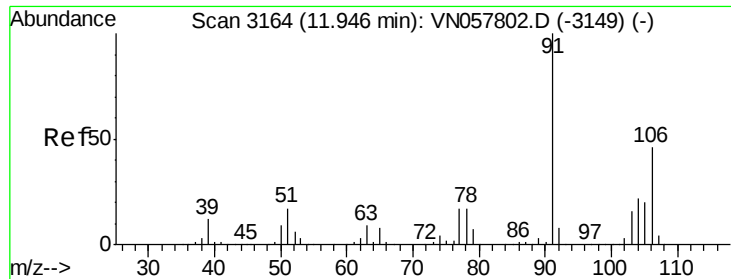
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#68
m/p-Xylenes
Concen: 41.023 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion: 106 Resp: 336325
Ion Ratio Lower Upper
106 100
91 207.5 165.8 248.6





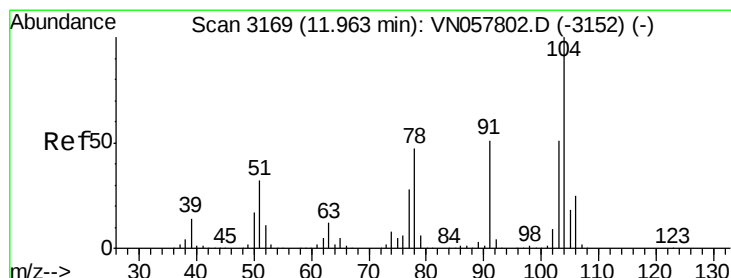
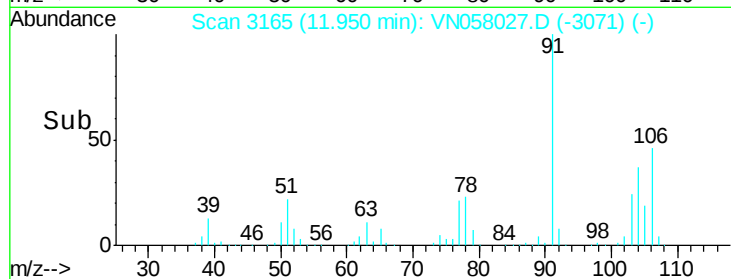
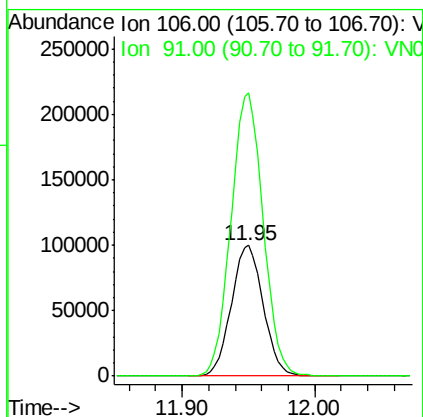
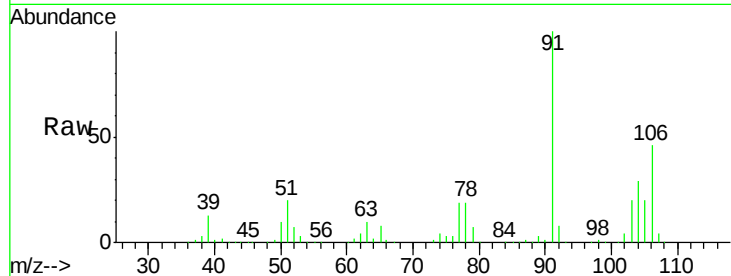
#69
o-Xylene
Concen: 20.491 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion:106 Resp: 167015
Ion Ratio Lower Upper
106 100
91 218.1 108.7 326.1

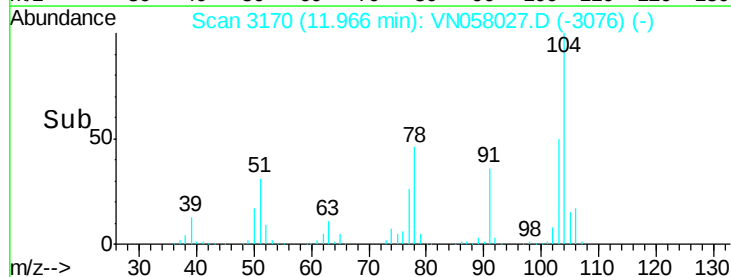
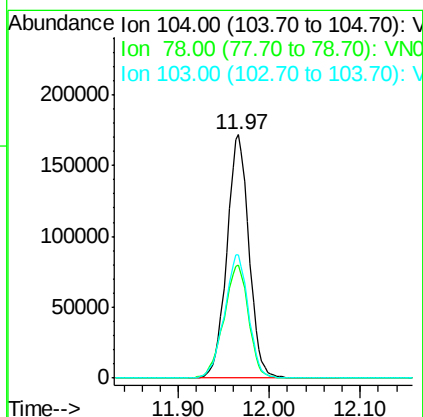
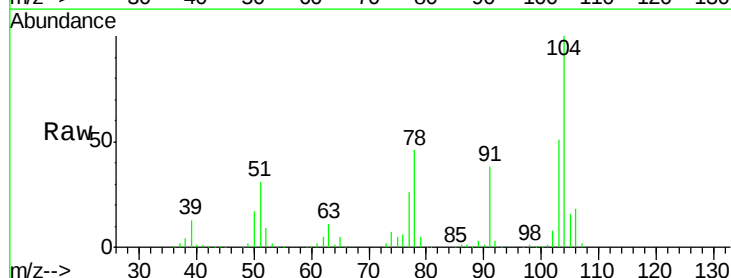
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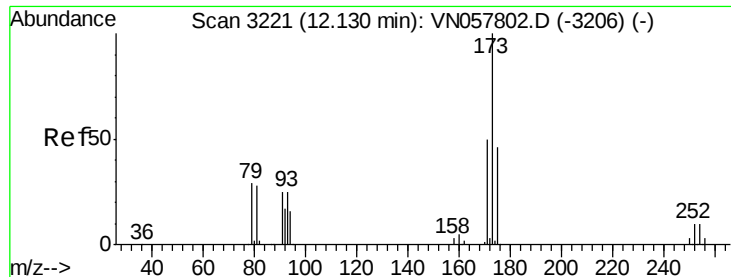
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#70
Styrene
Concen: 20.677 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion:104 Resp: 290037
Ion Ratio Lower Upper
104 100
78 51.9 41.3 61.9
103 55.0 43.7 65.5





#71

Bromoform

Concen: 18.127 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion:173 Resp: 50083

Ion Ratio Lower Upper

173 100

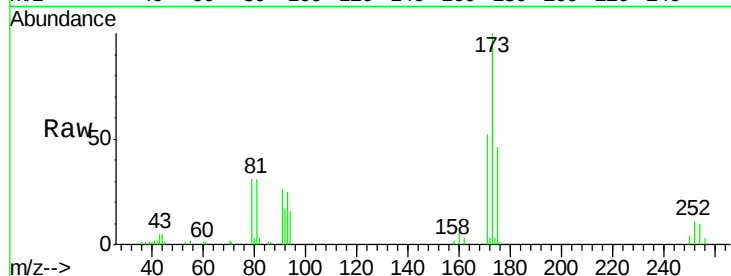
175 48.2 23.5 70.6

254 0.0 0.1 0.1#

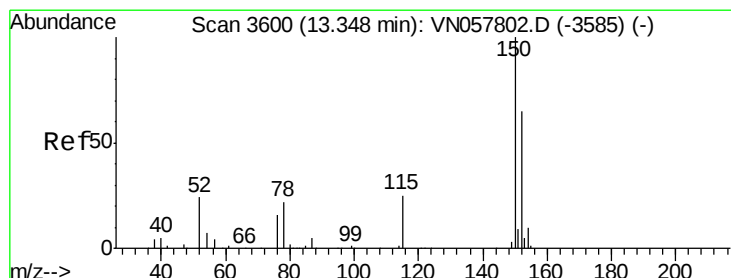
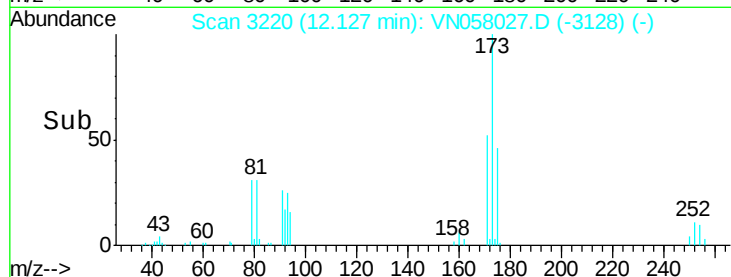
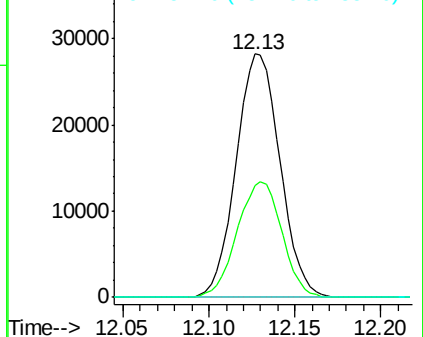
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

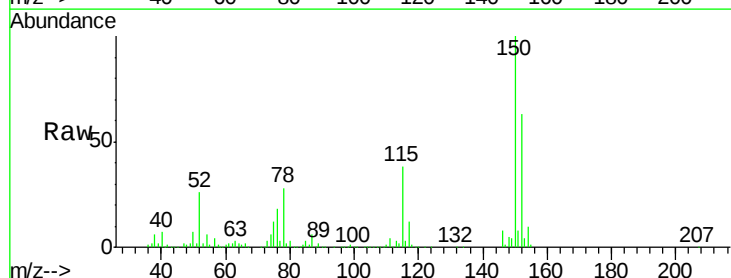
Tgt Ion:152 Resp: 283943

Ion Ratio Lower Upper

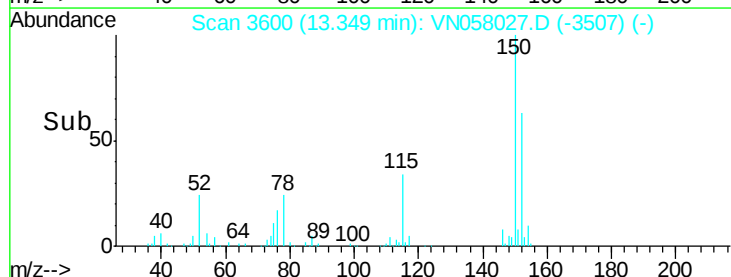
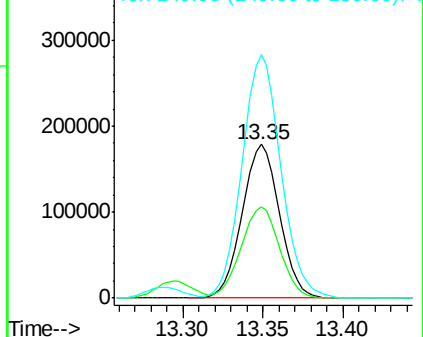
152 100

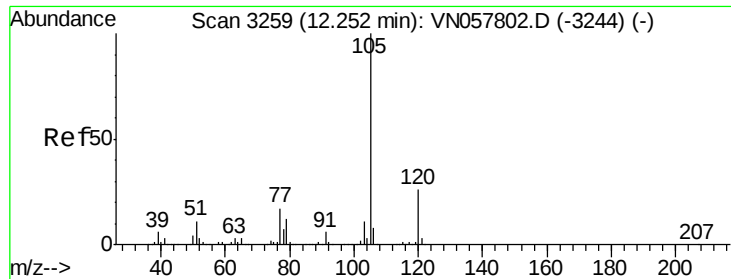
115 60.9 30.3 91.0

150 165.4 0.0 352.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.165 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 105 Resp: 466328

Ion Ratio Lower Upper

105 100

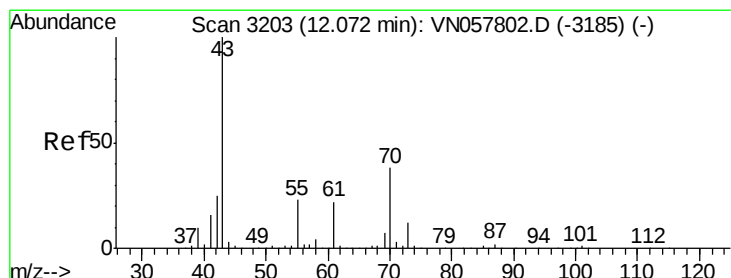
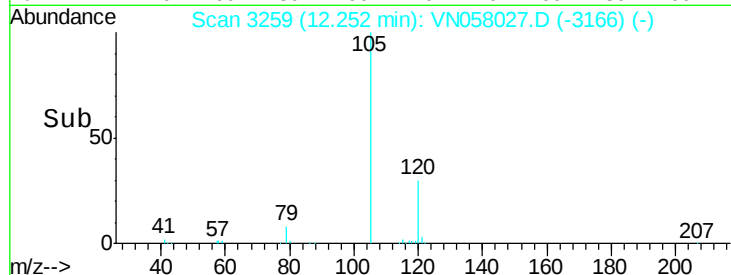
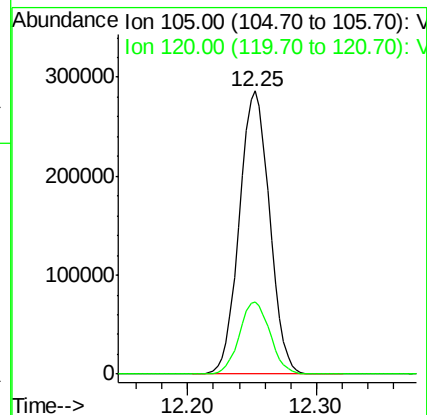
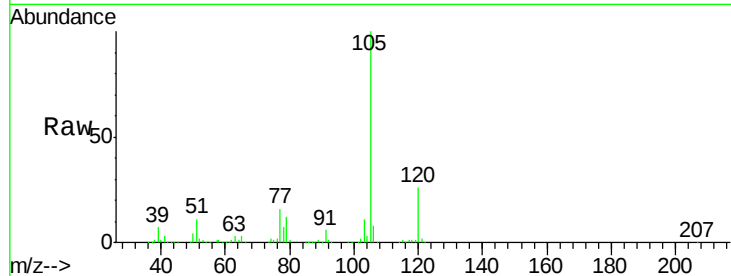
120 25.9 12.8 38.4

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#74

N-ethyl acetate

Concen: 20.523 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Tgt Ion: 43 Resp: 196793

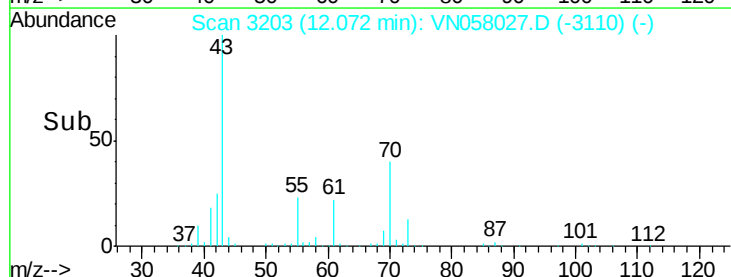
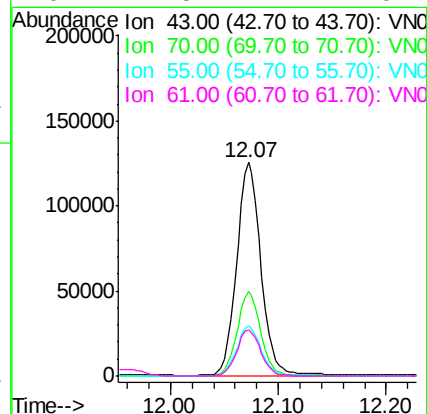
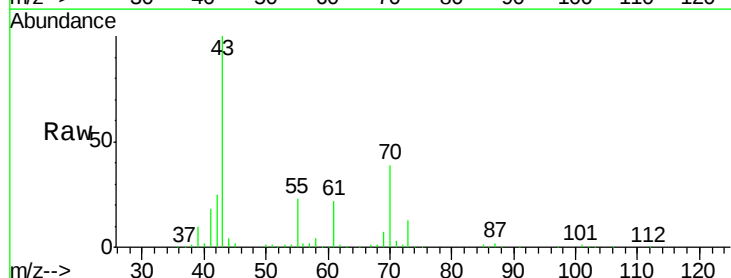
Ion Ratio Lower Upper

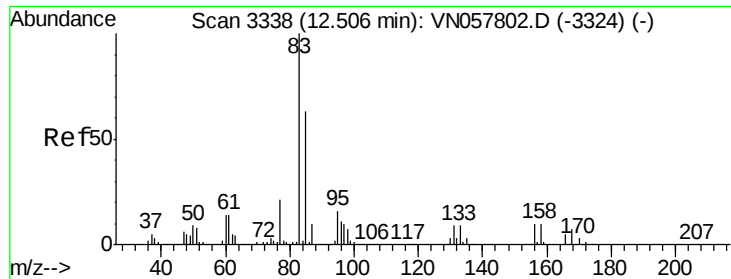
43 100

70 38.6 30.6 45.8

55 23.8 18.6 27.8

61 21.8 17.4 26.2





#75

1,1,2,2-Tetrachloroethane

Concen: 19.585 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

MSVOA_N

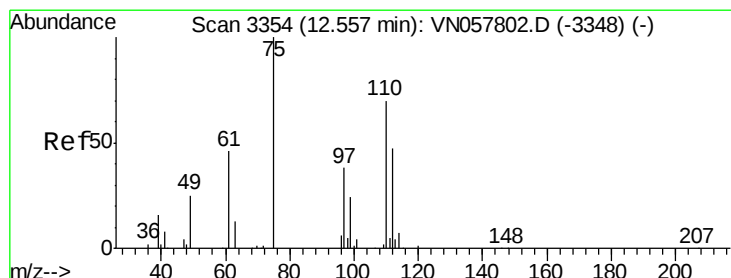
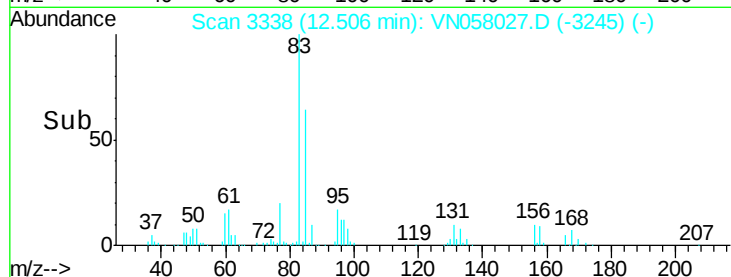
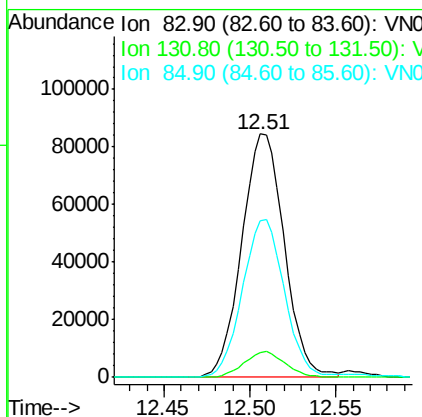
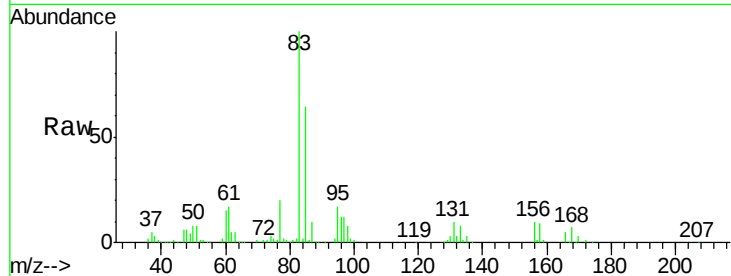
ClientSampleId :

VN0914WBSD03

Tot Ion:	83	Resp:	145295
Ion Ratio	Lower	Upper	
83	100		
131	10.2	4.8	14.3
85	63.7	31.6	94.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 18.925 ug/l m

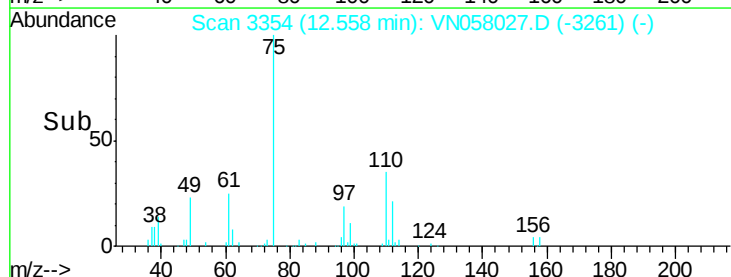
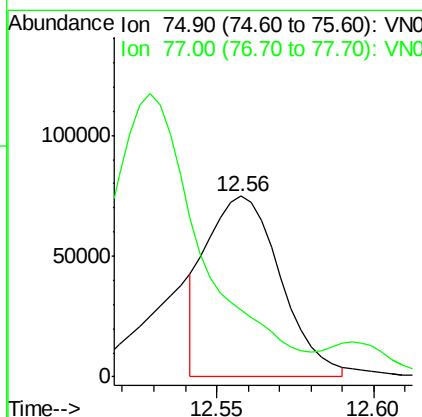
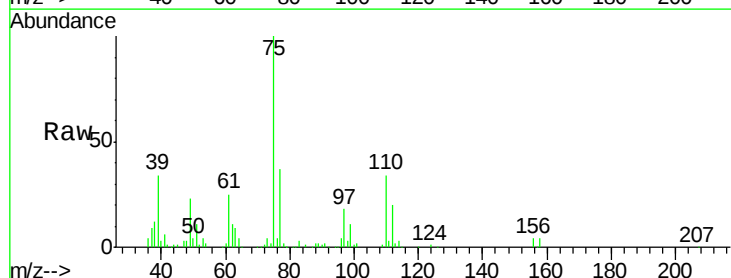
RT: 12.56 min Scan# 3354

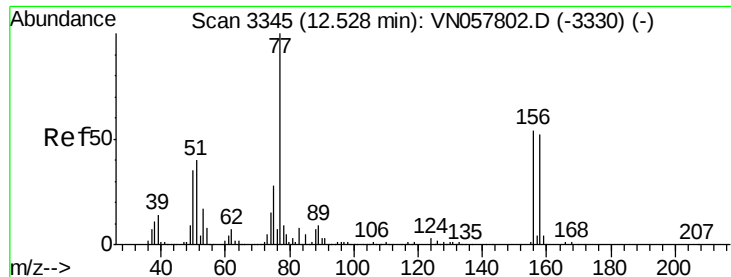
Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Tgt Ion:	75	Resp:	121561
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.818 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

MSVOA_N

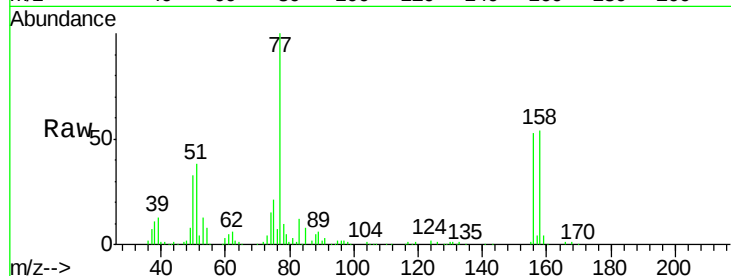
ClientSampleId :

VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
156	100		
77	221.5	113.7	341.1
158	97.2	48.5	145.6

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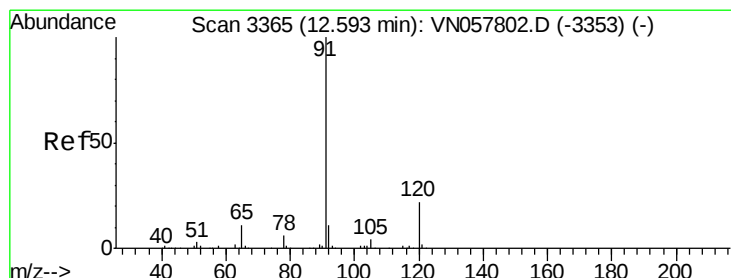
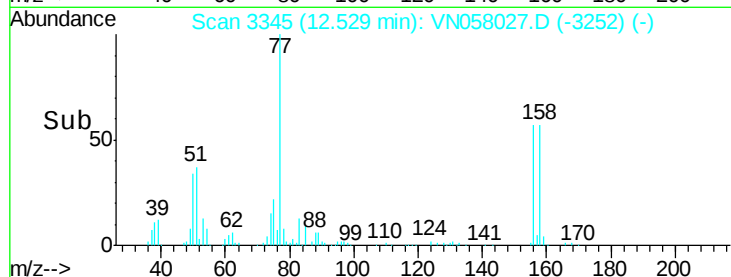
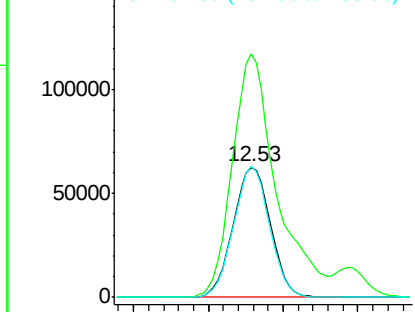


Abundance

Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.381 ug/l

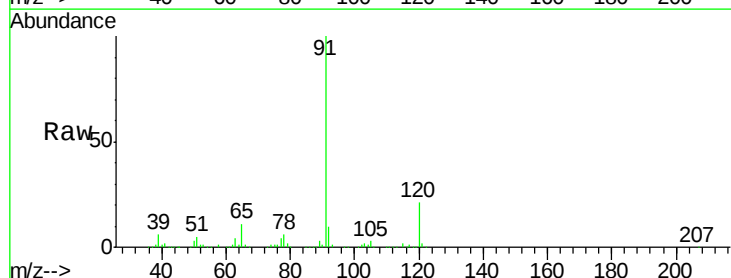
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

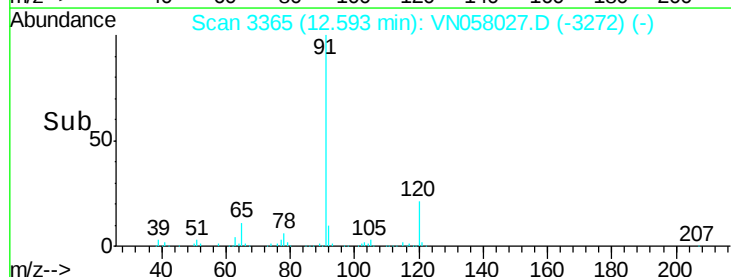
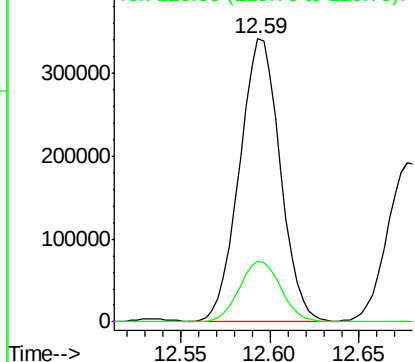
Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.1

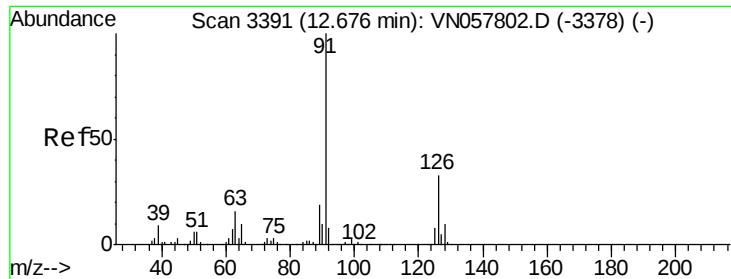


Abundance

Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.212 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBSD03

Tot Ion: 91 Resp: 323209

Ion Ratio Lower Upper

91 100

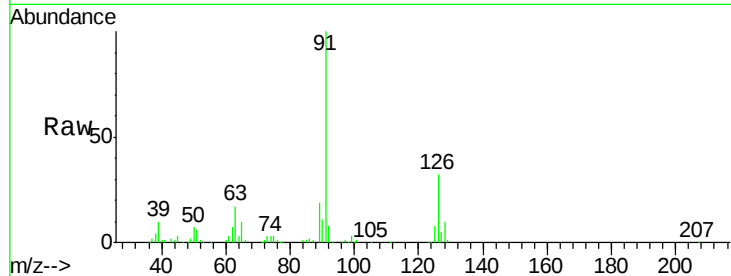
126 32.0 16.4 49.2

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Abundance Ion 91.00 (90.70 to 91.70): VN057802.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN057802.D (-3378) (-)

250000

200000

150000

100000

50000

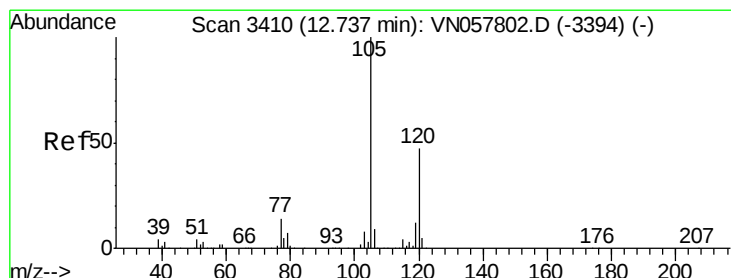
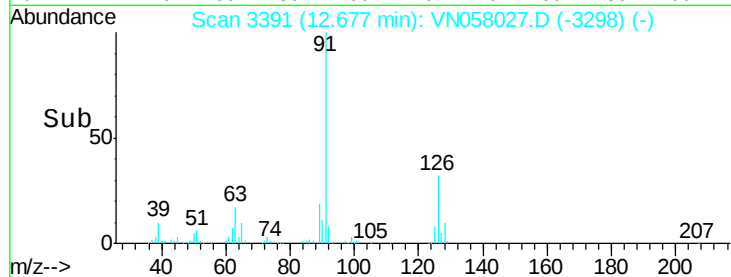
0

12.65

12.68

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.101 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058027.D

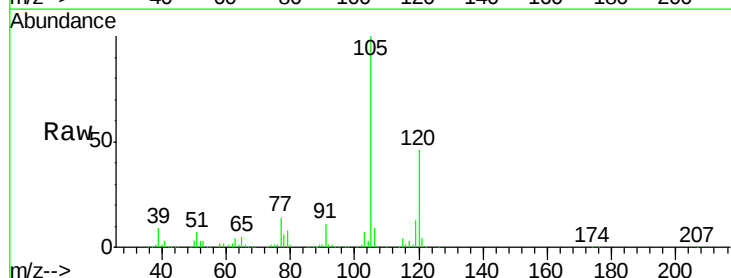
Acq: 13 Sep 2019 19:23

Tgt Ion: 105 Resp: 392835

Ion Ratio Lower Upper

105 100

120 46.7 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): VN057802.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN057802.D (-3394) (-)

250000

200000

150000

100000

50000

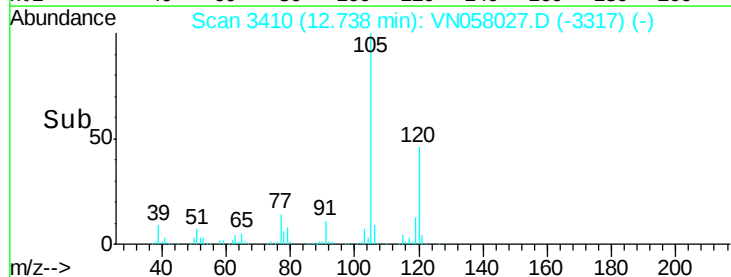
0

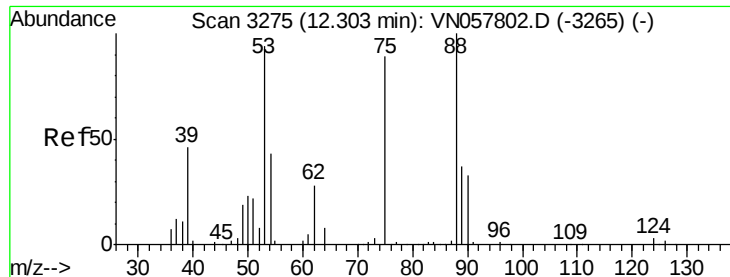
12.70

12.74

12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 15.524 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

MSVOA_N

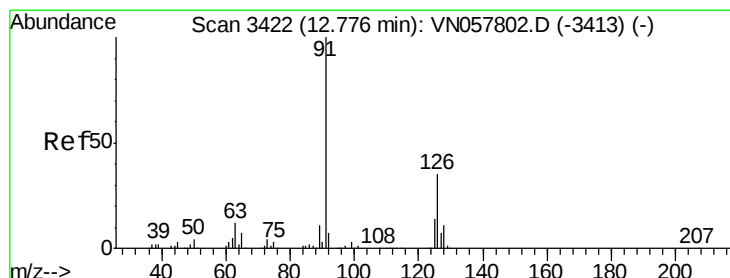
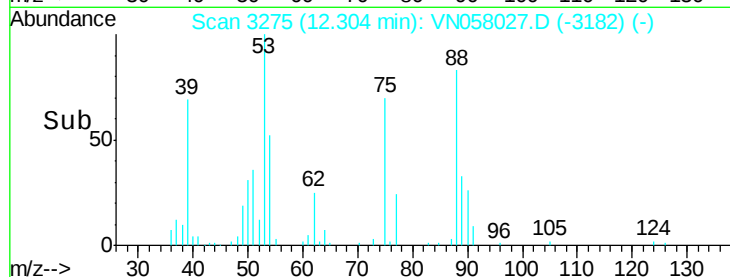
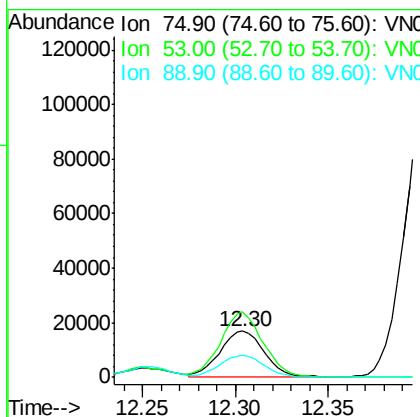
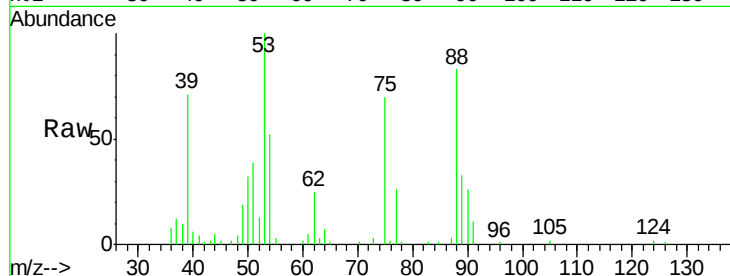
ClientSampleId :

VN0914WBSD03

Tot Ion:	75	Resp:	28336
Ion Ratio	Lower	Upper	
75	100		
53	133.1	88.4	132.6#
89	47.6	35.3	52.9

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#82

4-Chlorotoluene

Concen: 20.331 ug/l

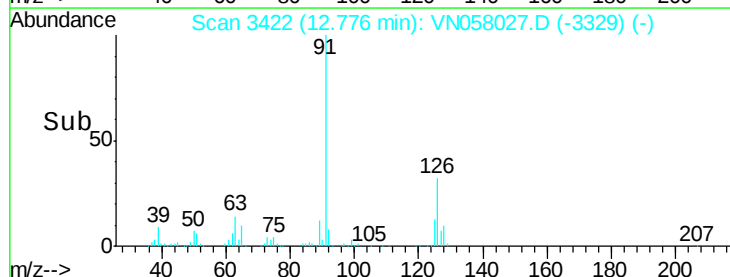
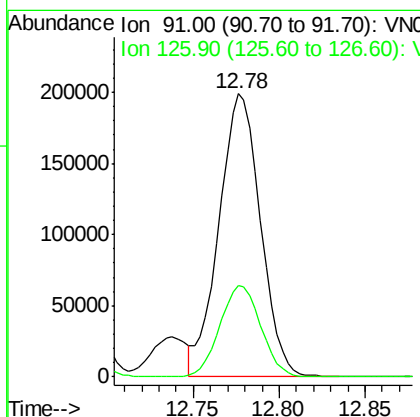
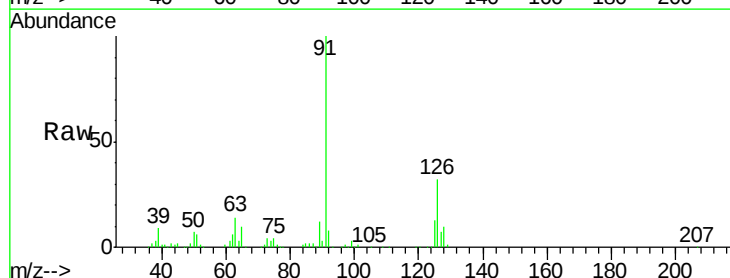
RT: 12.78 min Scan# 3422

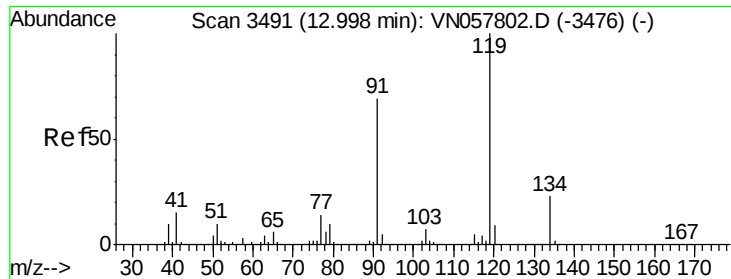
Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Tgt Ion:	91	Resp:	333865
Ion Ratio	Lower	Upper	
91	100		
126	32.1	16.0	48.0





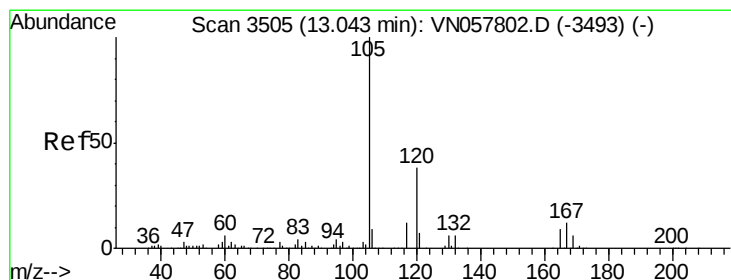
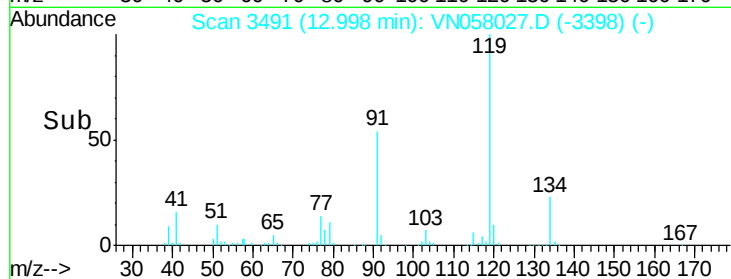
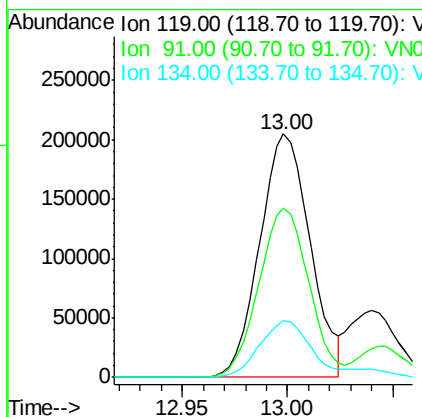
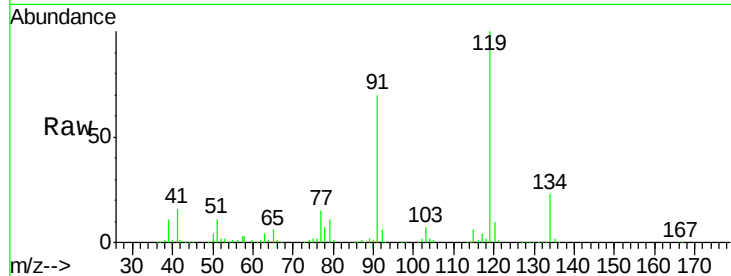
#83
tert-Butylbenzene
Concen: 20.628 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampled :
VN0914WBSD03

Tot Ion	Ratio	Resp	Lower	Upper
119	100	341357		
91	68.9	33.6	100.8	
134	23.4	11.7	35.0	

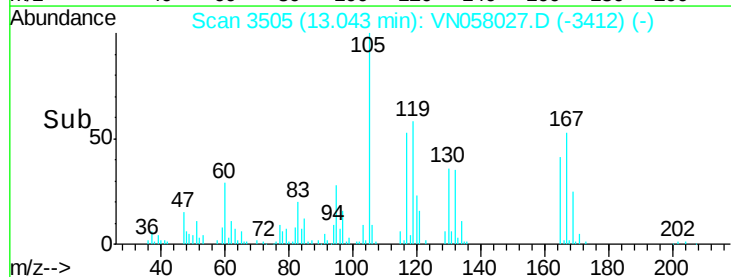
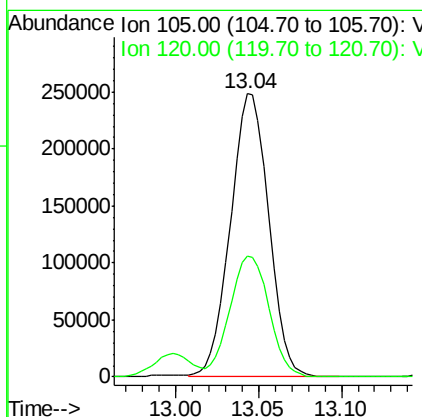
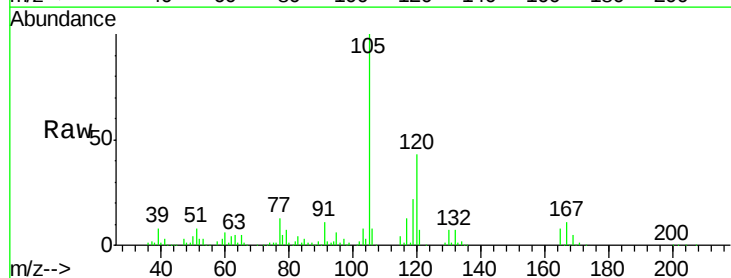
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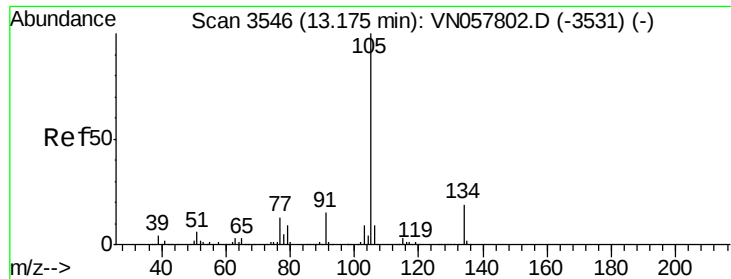
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#84
1,2,4-Trimethylbenzene
Concen: 21.000 ug/l
RT: 13.04 min Scan# 3505
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	397332		
120	43.8	22.4	67.2	





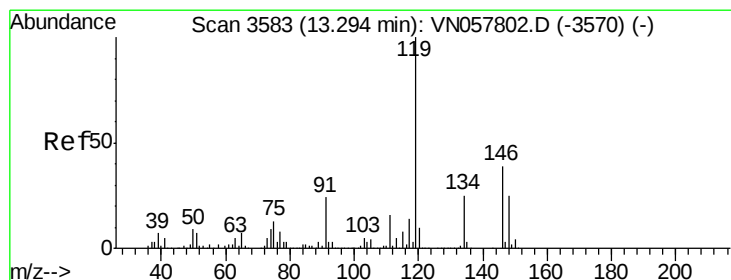
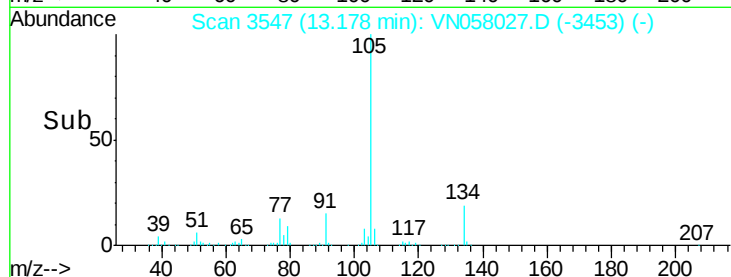
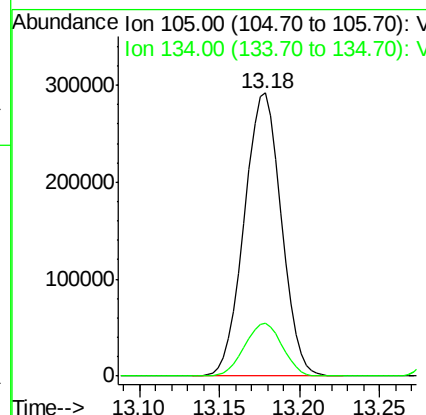
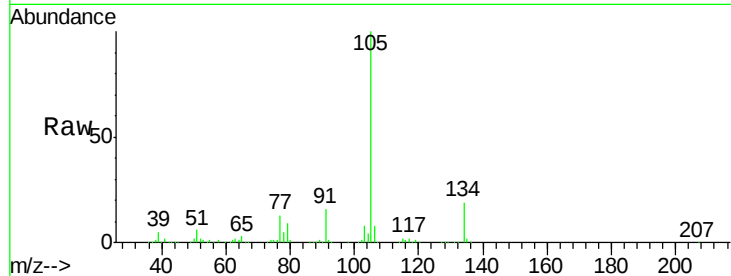
#85
 sec-Butylbenzene
 Concen: 21.009 ug/l
 RT: 13.18 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Resp	Lower	Upper
105	100	460815		
134	19.1	9.6	28.6	

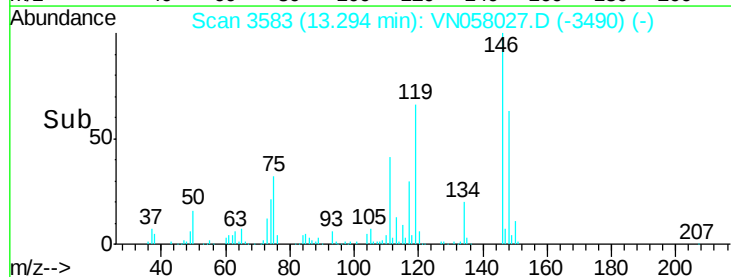
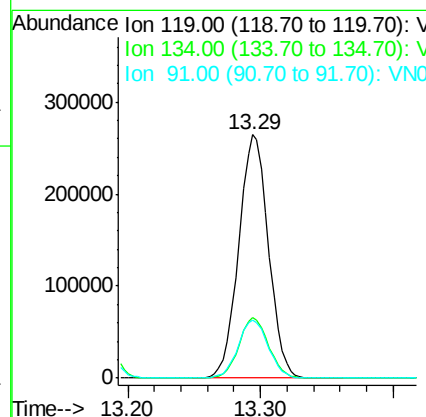
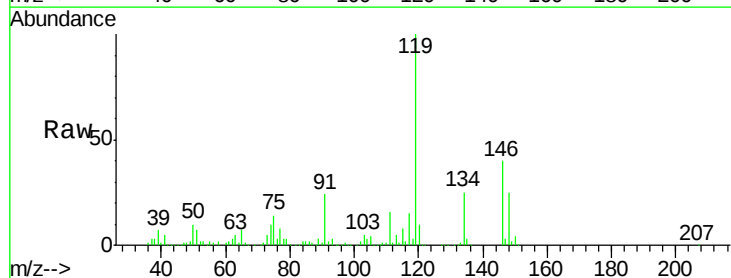
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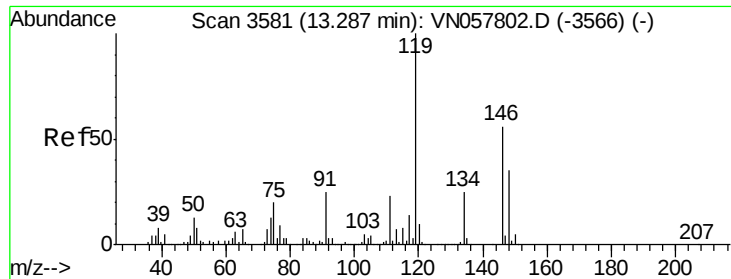
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#86
 p-Isopropyltoluene
 Concen: 21.166 ug/l
 RT: 13.29 min Scan# 3583
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	409045		
134	24.9	12.5	37.5	
91	24.2	12.3	36.8	





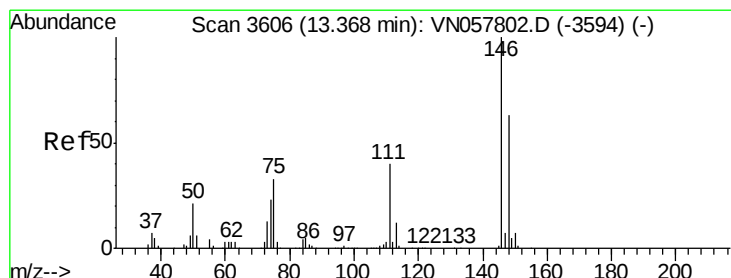
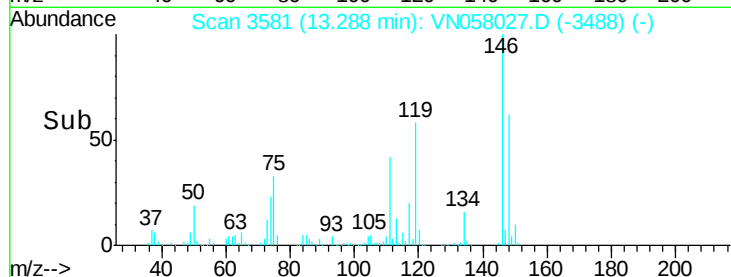
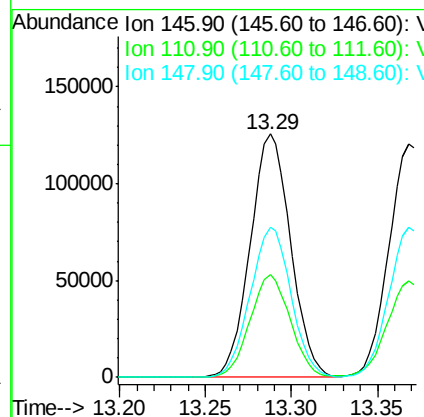
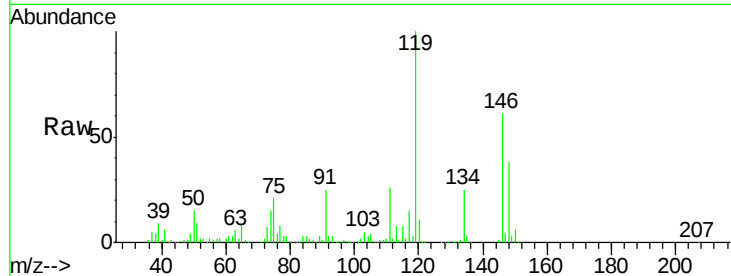
#87
 1,3-Dichlorobenzene
 Concen: 20.309 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Resp	Lower	Upper
146	100	204775		
111	41.9	20.5	61.6	
148	62.3	31.5	94.5	

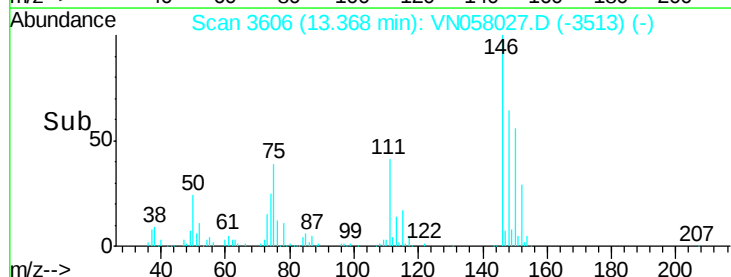
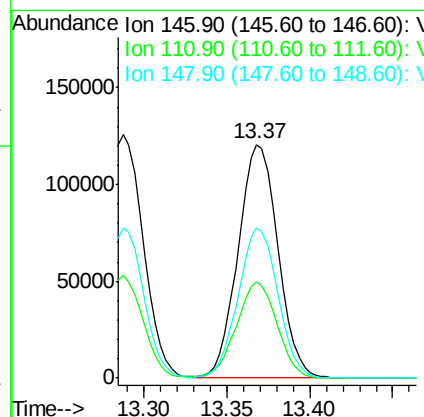
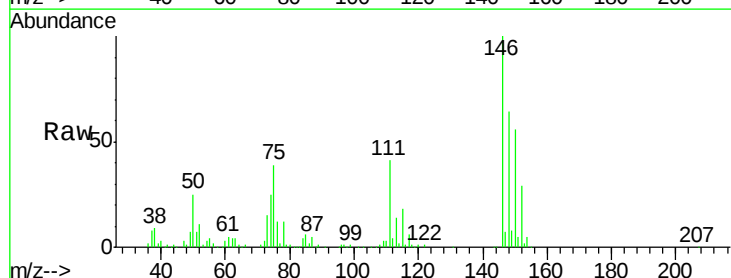
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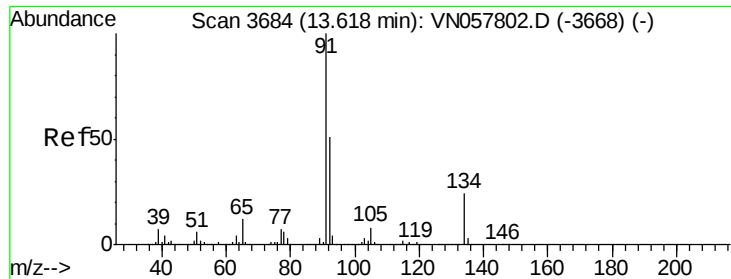
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#88
 1,4-Dichlorobenzene
 Concen: 19.663 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	201243		
111	41.7	20.4	61.2	
148	64.3	31.8	95.4	





#89

n-Butylbenzene

Concen: 20.110 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Instrument :

MSVOA_N

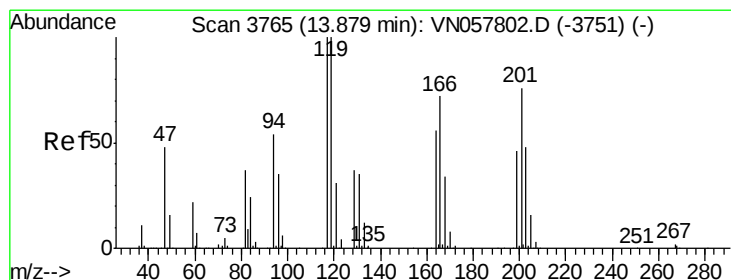
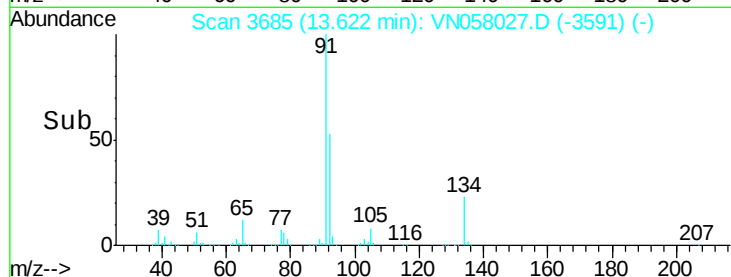
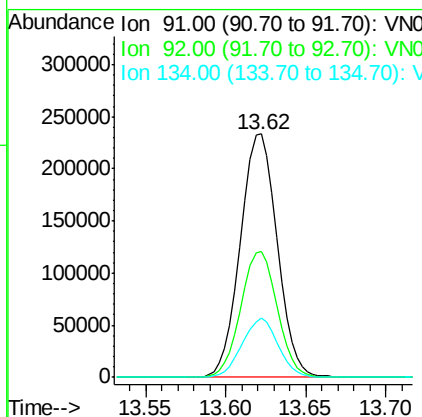
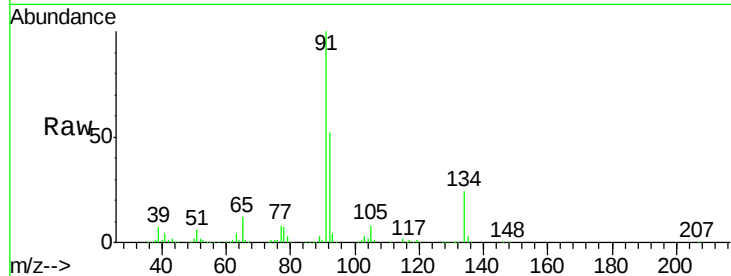
ClientSampleId :

VN0914WBSD03

Tot Ion:	91	Resp:	367019
Ion	Ratio	Lower	Upper
91	100		
92	51.3	25.7	77.0
134	23.8	11.9	35.7

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#90

Hexachloroethane

Concen: 18.945 ug/l

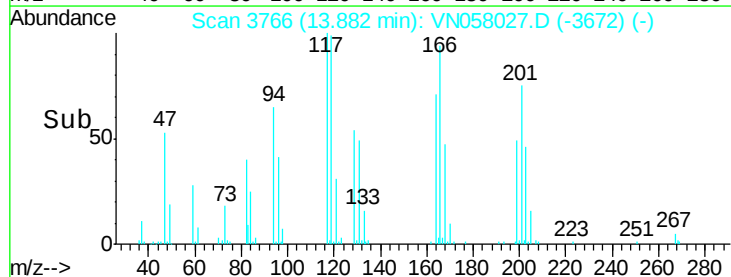
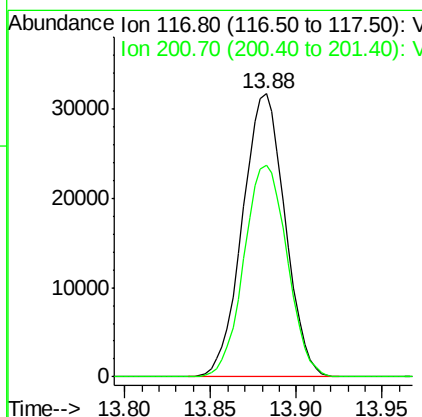
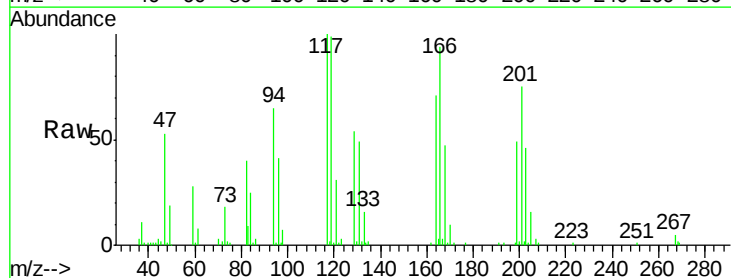
RT: 13.88 min Scan# 3766

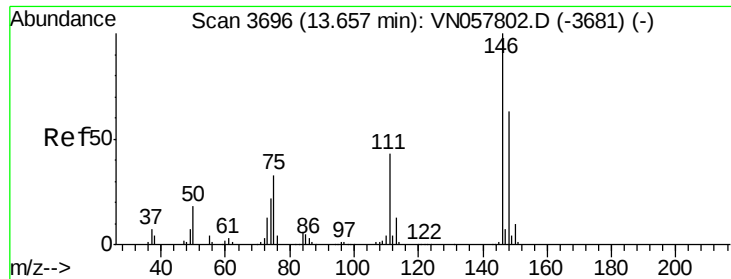
Delta R.T. 0.00 min

Lab File: VN058027.D

Acq: 13 Sep 2019 19:23

Tgt Ion:	117	Resp:	54450
Ion	Ratio	Lower	Upper
117	100		
201	75.9	37.5	112.7





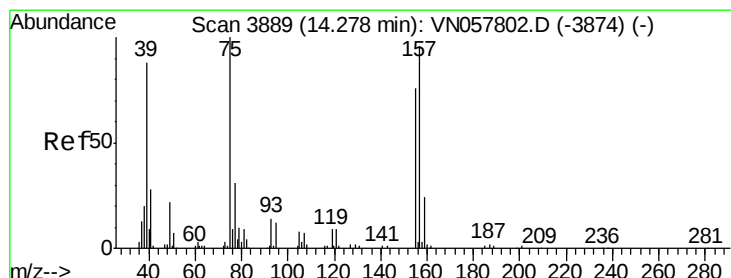
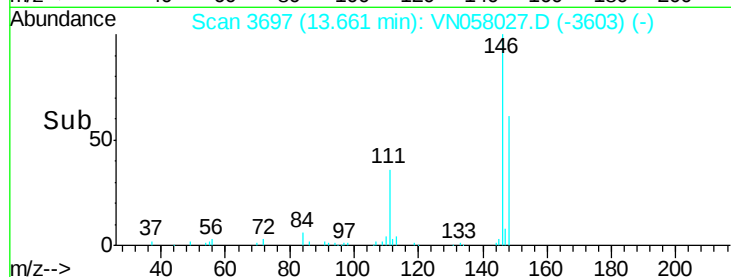
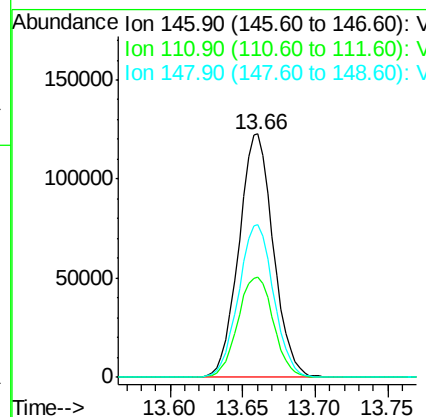
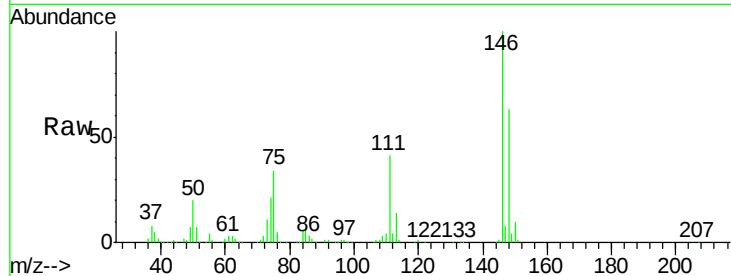
#91
 1,2-Dichlorobenzene
 Concen: 20.143 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.3	63.9
148	63.7	31.4	94.3

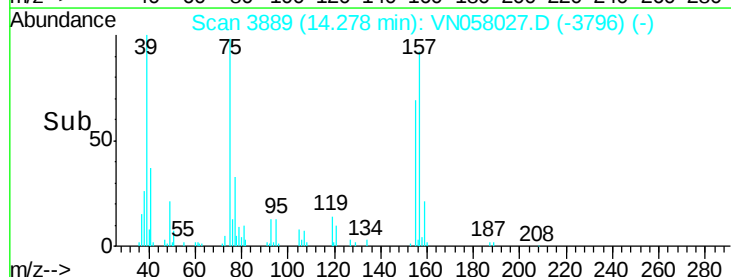
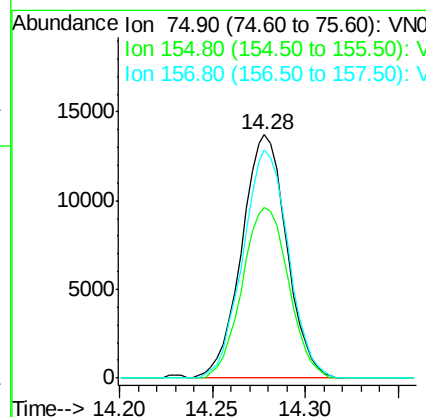
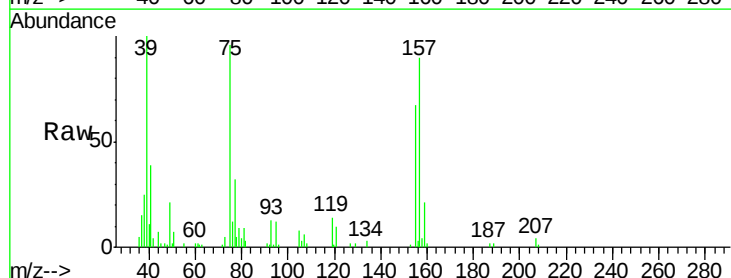
Manual Integrations
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.924 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
75	100		
155	72.0	37.3	111.8
157	94.9	47.9	143.8





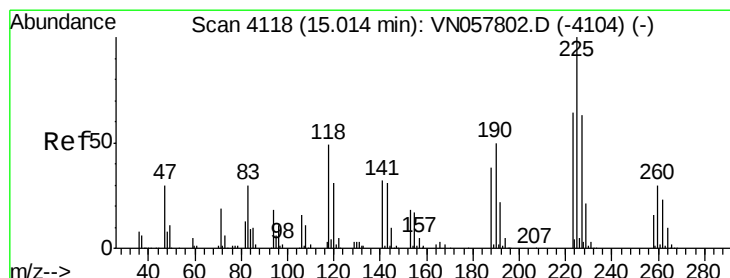
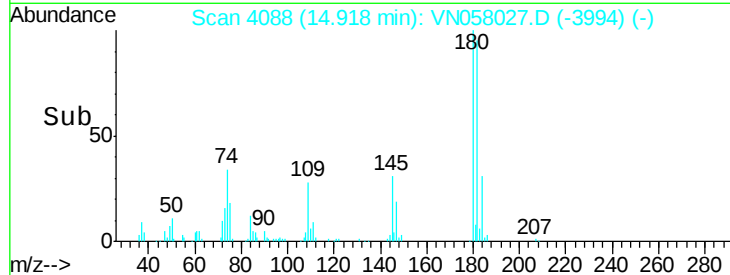
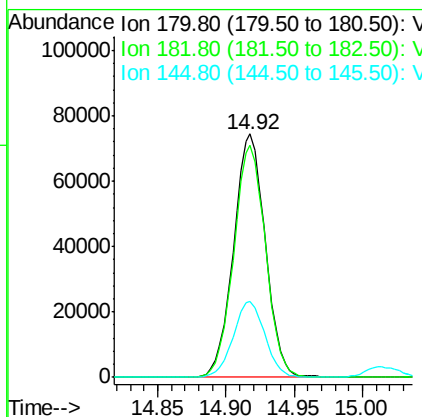
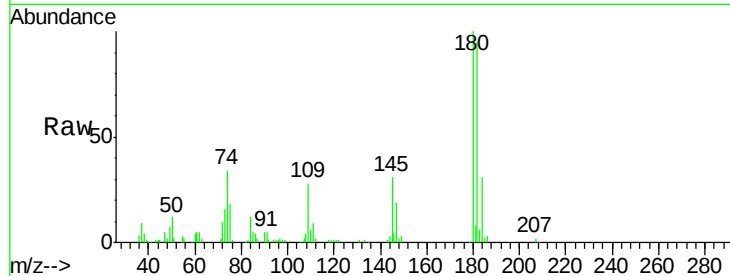
#93
 1,2,4-Trichlorobenzene
 Concen: 18.241 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBSD03

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.4	46.9	140.8	
145	31.2	14.9	44.7	

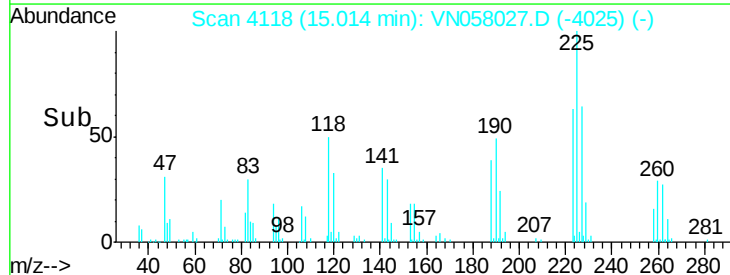
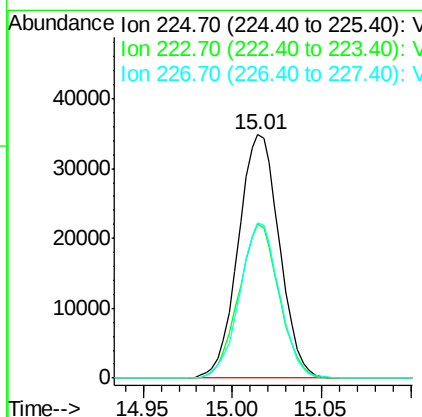
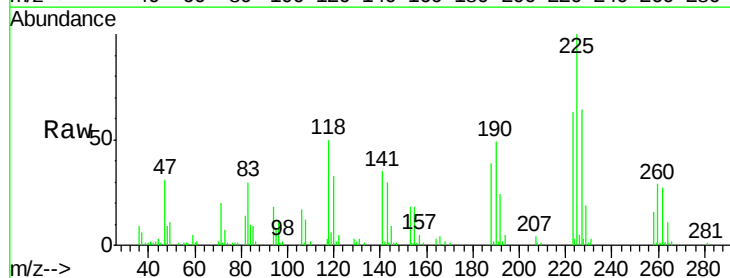
Manual Integrations
 APPROVED

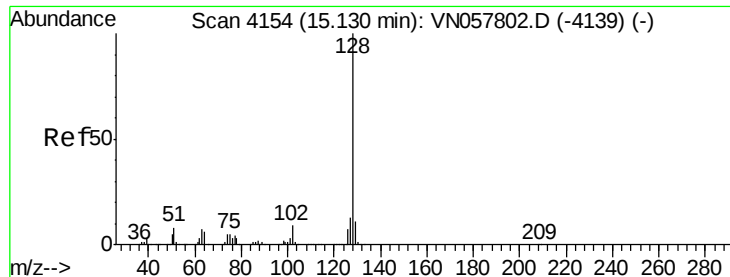
MMDadoda
 9/16/2019 2:11:38 PM



#94
 Hexachlorobutadiene
 Concen: 20.094 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN058027.D
 Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	61.8	32.4	97.2	
227	61.4	31.8	95.4	





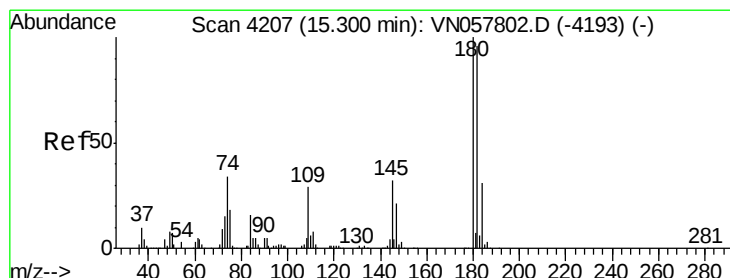
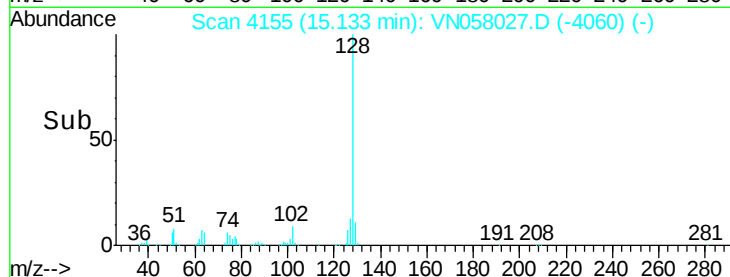
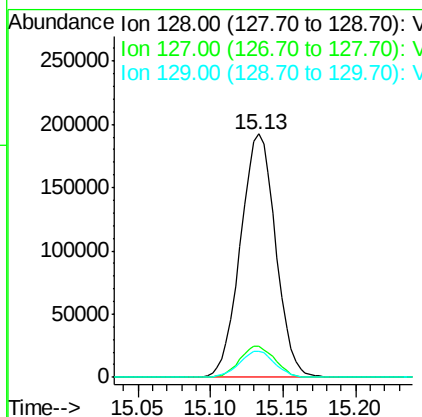
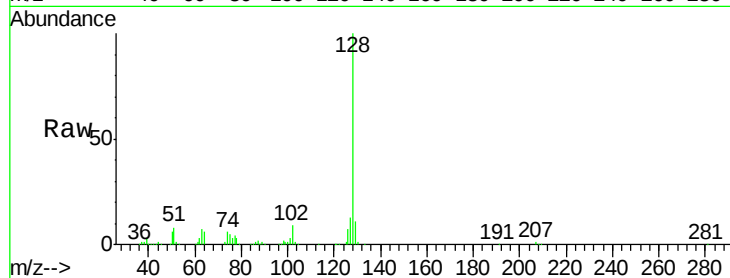
#95
Naphthalene
Concen: 18.519 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBSD03

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.8	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
9/16/2019 2:11:38 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.782 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. 0.00 min
Lab File: VN058027.D
Acq: 13 Sep 2019 19:23

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	48.3	144.8
145	33.0	16.3	48.8

