

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050619\
 Data File : VN055417.D
 Acq On : 6 May 2019 15:50
 Operator : JC/SP
 Sample : VN0506MBS01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0506MBS01

Manual Integrations
 APPROVED

MMDadoda
 5/7/2019 1:22:42 PM

Quant Time: May 07 02:11:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:16:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	379322	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	622008	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	521522	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	193667	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	259115	52.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.44%	
35) Dibromofluoromethane	7.59	113	207665	50.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.74%	
50) Toluene-d8	10.09	98	726384	49.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.54%	
62) 4-Bromofluorobenzene	12.40	95	232642	50.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.98%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	86542	18.621	ug/l	99
3) Chloromethane	2.06	50	97918	17.015	ug/l	98
4) Vinyl Chloride	2.19	62	88854	19.154	ug/l	97
5) Bromomethane	2.57	94	47639	19.388	ug/l	93
6) Chloroethane	2.71	64	48615	19.346	ug/l	99
7) Trichlorofluoromethane	3.02	101	126956	19.247	ug/l	94
8) Diethyl Ether	3.42	74	47828	20.725	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	76508	19.478	ug/l	99
10) Methyl Iodide	3.96	142	101447	18.352	ug/l	99
11) Tert butyl alcohol	4.79	59	32930	115.906	ug/l #	73
12) 1,1-Dichloroethene	3.74	96	72542	19.360	ug/l	96
13) Acrolein	3.62	56	16413	73.972	ug/l	97
14) Allyl chloride	4.33	41	148676	19.158	ug/l	99
15) Acrylonitrile	5.00	53	170638	106.852	ug/l	99
16) Acetone	3.82	43	131097	84.786	ug/l	94
17) Carbon Disulfide	4.06	76	154261	15.775	ug/l	99
18) Methyl Acetate	4.33	43	90235	23.406	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	224667	21.328	ug/l	100
20) Methylene Chloride	4.56	84	87299	18.497	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	75682	19.071	ug/l	97
22) Diisopropyl ether	5.95	45	326696	21.187	ug/l	94
23) Vinyl Acetate	5.90	43	1069530	105.832	ug/l	99
24) 1,1-Dichloroethane	5.85	63	167658	20.407	ug/l	99
25) 2-Butanone	6.84	43	209502	105.948	ug/l	98
26) 2,2-Dichloropropane	6.83	77	98346	17.335	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	89738	19.885	ug/l	98
28) Bromochloromethane	7.20	49	88097	21.273	ug/l	97
29) Tetrahydrofuran	7.22	42	140849	111.238	ug/l	100
30) Chloroform	7.37	83	155836	20.010	ug/l	99
31) Cyclohexane	7.65	56	148788	19.062	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	124275	19.661	ug/l	99
36) 1,1-Dichloropropene	7.79	75	109627	18.400	ug/l	98
37) Ethyl Acetate	6.94	43	83701	18.331	ug/l	96
38) Carbon Tetrachloride	7.77	117	101660	17.689	ug/l	98

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	121033	19.107	ug/l	99
40) Benzene	8.04	78	340703	19.398	ug/l	99
41) Methacrylonitrile	7.18	41	48373	20.024	ug/l	93
42) 1,2-Dichloroethane	8.13	62	123578	19.866	ug/l	99
43) Isopropyl Acetate	8.17	43	159941	21.796	ug/l #	88
44) Trichloroethene	8.84	130	81478	18.198	ug/l	100
45) 1,2-Dichloropropane	9.12	63	98721	19.489	ug/l	99
46) Dibromomethane	9.21	93	54176	19.566	ug/l	97
47) Bromodichloromethane	9.40	83	112737	18.979	ug/l	97
48) Methyl methacrylate	9.20	41	74139	20.552	ug/l	98
49) 1,4-Dioxane	9.20	88	16514	442.835	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	442317	107.060	ug/l	98
52) Toluene	10.16	92	193657	19.217	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	98602	19.122	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	122906	19.117	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	76076	20.330	ug/l	97
56) Ethyl methacrylate	10.43	69	95352	20.702	ug/l	99
57) 1,3-Dichloropropane	10.71	76	133141	20.281	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	102096	80.284	ug/l	100
59) 2-Hexanone	10.75	43	267477	103.472	ug/l	98
60) Dibromochloromethane	10.90	129	74824	19.564	ug/l	99
61) 1,2-Dibromoethane	11.00	107	68989	19.946	ug/l	99
64) Tetrachloroethene	10.63	164	84758	19.873	ug/l	96
65) Chlorobenzene	11.43	112	195027	19.127	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	74197	18.584	ug/l	97
67) Ethyl Benzene	11.51	91	361358	19.625	ug/l	98
68) m/p-Xylenes	11.62	106	260216	39.593	ug/l	98
69) o-Xylene	11.95	106	129044	19.810	ug/l	99
70) Styrene	11.96	104	205354	20.531	ug/l	99
71) Bromoform	12.13	173	42786	19.313	ug/l #	98
73) Isopropylbenzene	12.25	105	357008	21.356	ug/l	100
74) N-amyl acetate	12.07	43	101051	20.331	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	90611	21.822	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	83761m	21.851	ug/l	
77) Bromobenzene	12.53	156	79409	20.178	ug/l	98
78) n-propylbenzene	12.59	91	373565	18.778	ug/l	99
79) 2-Chlorotoluene	12.67	91	234312	20.768	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	289164	19.045	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	18344	17.950	ug/l	87
82) 4-Chlorotoluene	12.77	91	216964	18.757	ug/l	98
83) tert-Butylbenzene	12.99	119	251907	21.799	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	267927	19.731	ug/l	100
85) sec-Butylbenzene	13.17	105	327439	19.842	ug/l	100
86) p-Isopropyltoluene	13.29	119	273431	20.159	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	124429	19.200	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	115635	18.947	ug/l	99
89) n-Butylbenzene	13.61	91	189185	19.629	ug/l	98
90) Hexachloroethane	13.87	117	45063	20.039	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	126049	19.624	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	11108	21.802	ug/l	95

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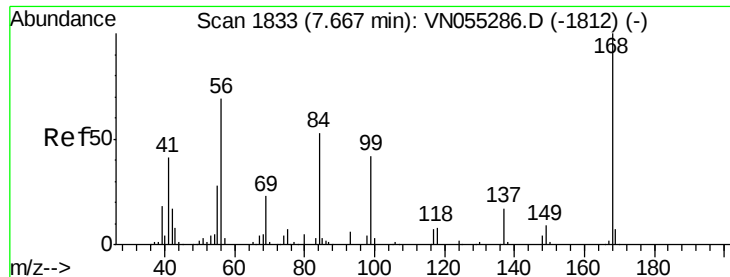
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	37677	17.205	ug/l	98
94) Hexachlorobutadiene	15.01	225	46795	22.682	ug/l	96
95) Naphthalene	15.13	128	79126	17.049	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	43769	19.247	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

VN0506MBS01

Tot Ion:168 Resp: 379322

Ion Ratio Lower Upper

168 100

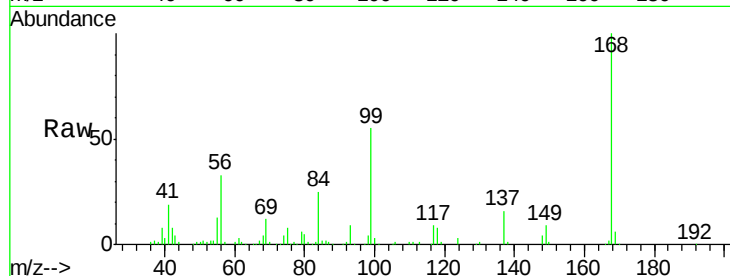
99 54.0 43.6 65.4

Manual Integrations

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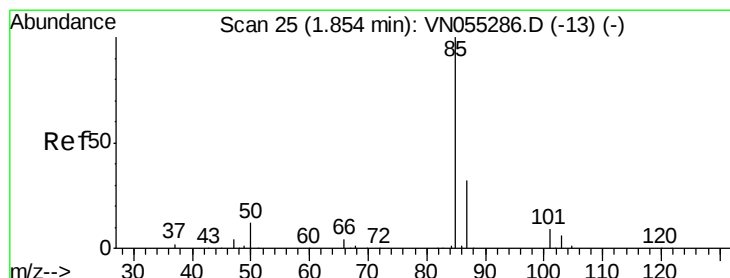
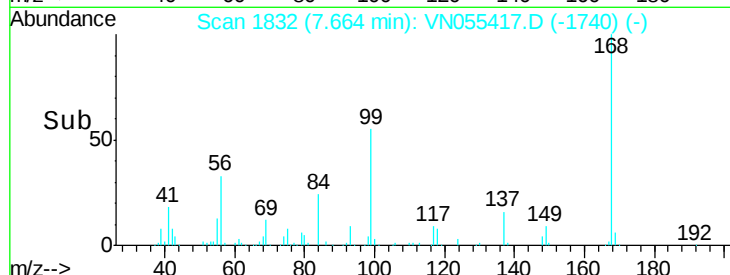
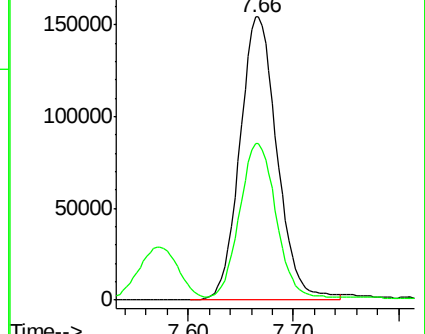
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 18.621 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN055417.D

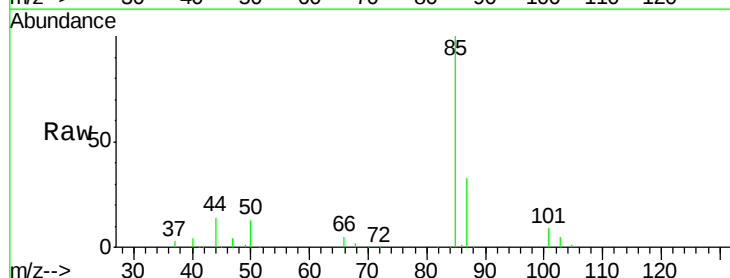
Acq: 6 May 2019 15:50

Tgt Ion: 85 Resp: 86542

Ion Ratio Lower Upper

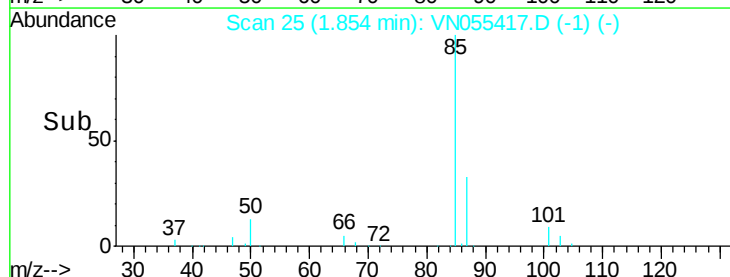
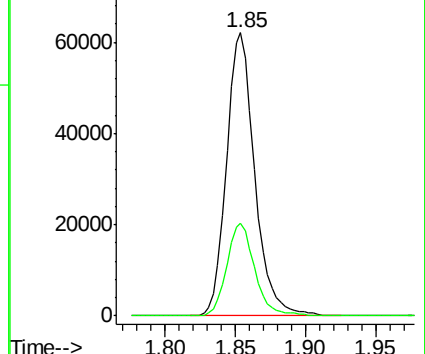
85 100

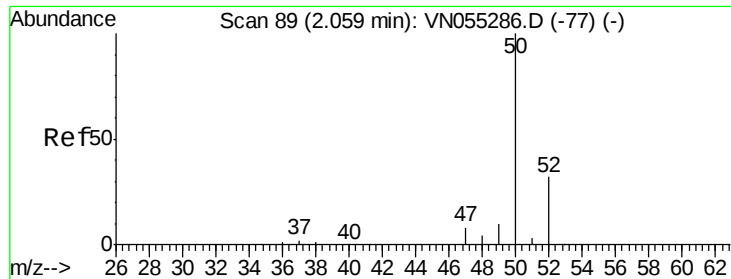
87 32.9 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: 17.015 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

VN0506MBS01

Tot Ion: 50 Resp: 97918

Ion Ratio Lower Upper

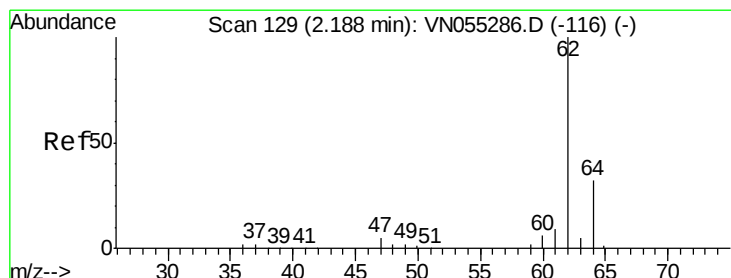
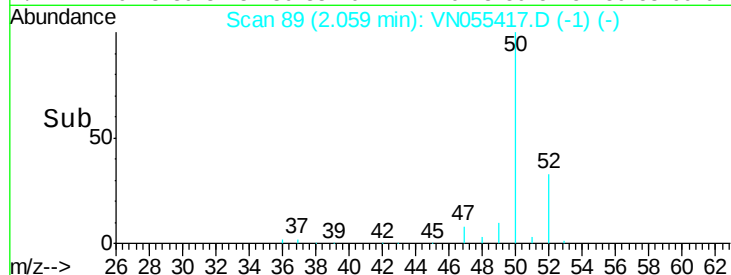
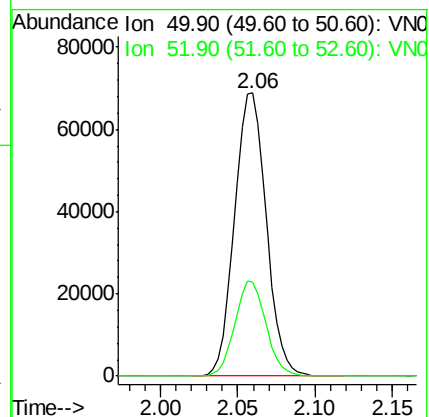
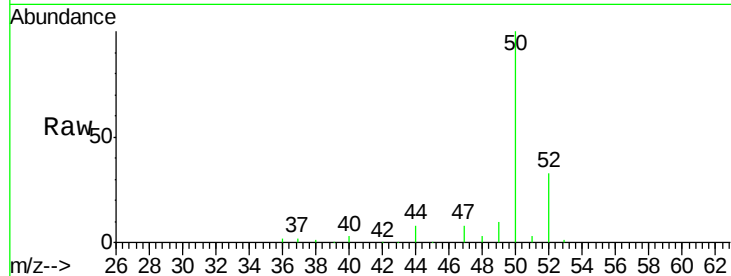
50 100

52 33.2 25.7 38.5

Manual Integrations
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#4

Vinyl Chloride

Concen: 19.154 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN055417.D

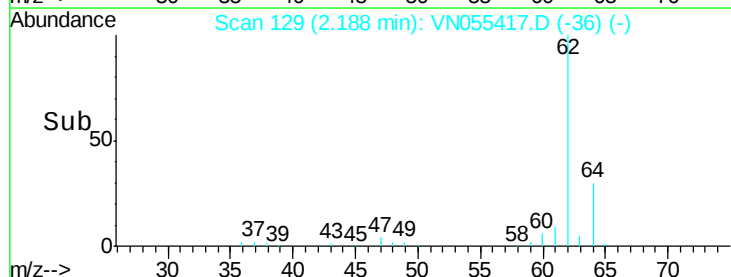
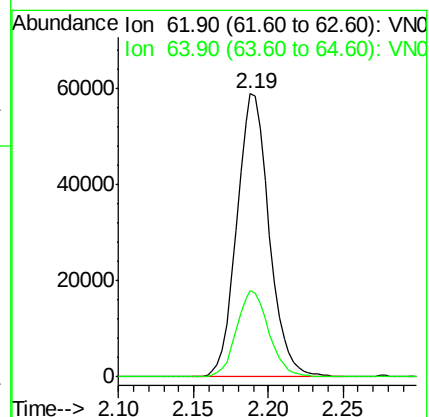
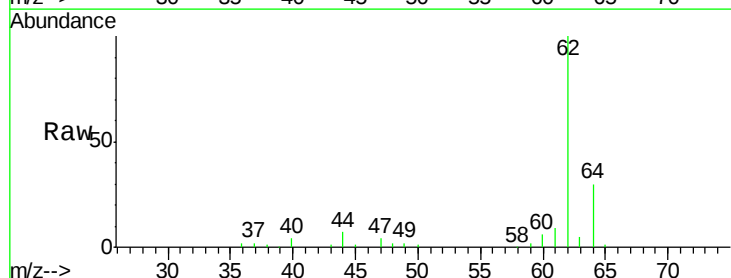
Acq: 6 May 2019 15:50

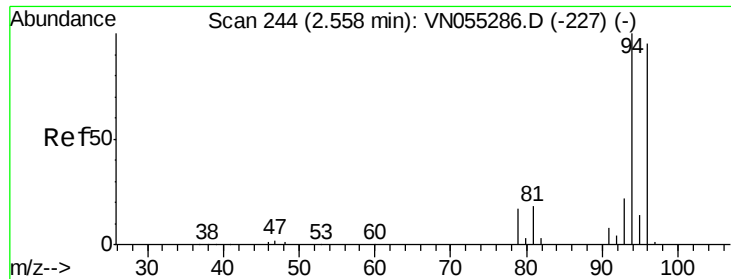
Tgt Ion: 62 Resp: 88854

Ion Ratio Lower Upper

62 100

64 30.4 25.5 38.3





#5

Bromomethane

Concen: 19.388 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.01 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

VN0506MBS01

Tot Ion: 94 Resp: 47639

Ion Ratio Lower Upper

94 100

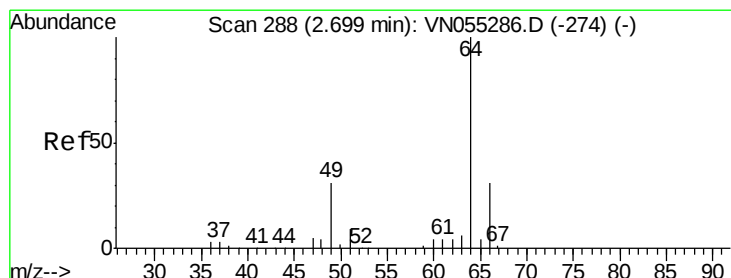
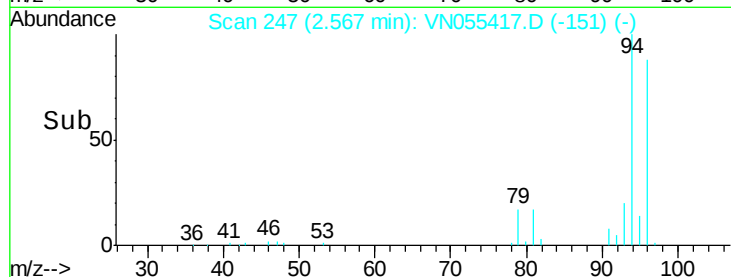
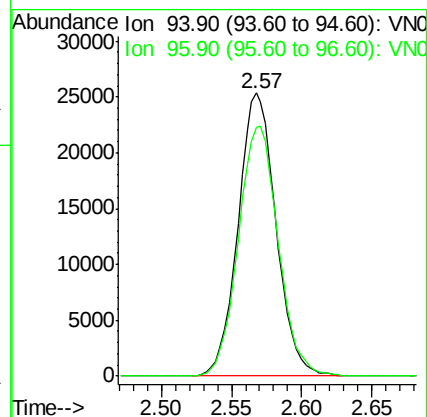
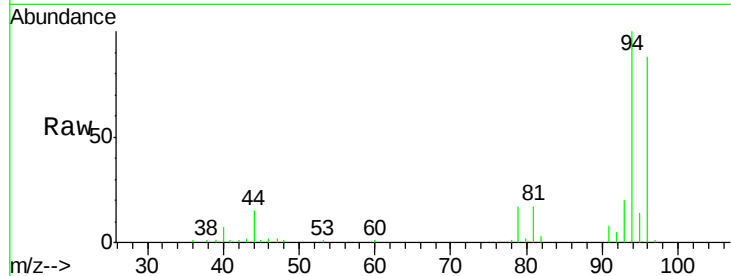
96 87.8 76.0 114.0

Manual Integrations

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#6

Chloroethane

Concen: 19.346 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.01 min

Lab File: VN055417.D

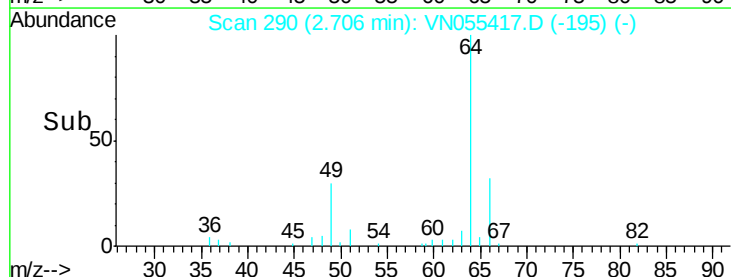
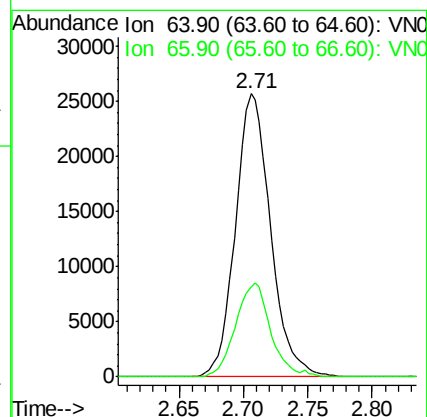
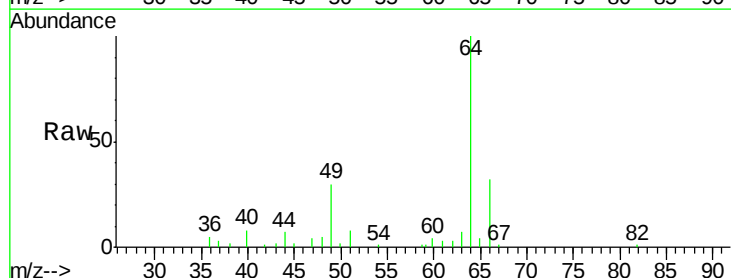
Acq: 6 May 2019 15:50

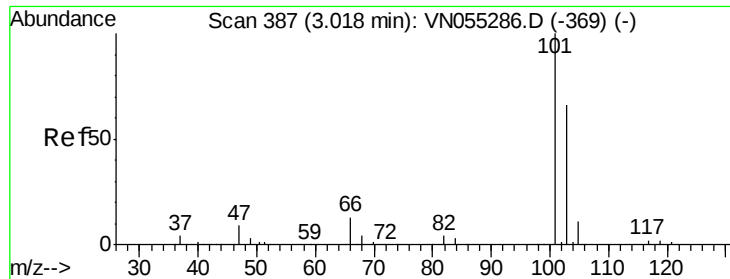
Tgt Ion: 64 Resp: 48615

Ion Ratio Lower Upper

64 100

66 31.8 25.0 37.4





#7

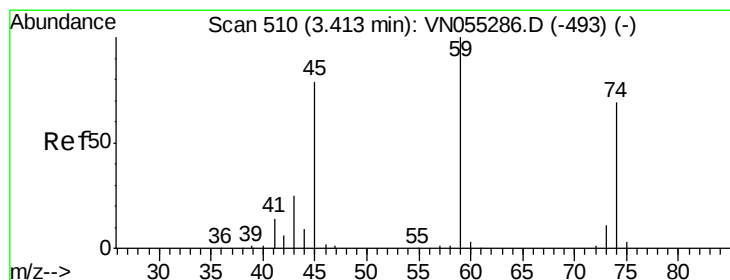
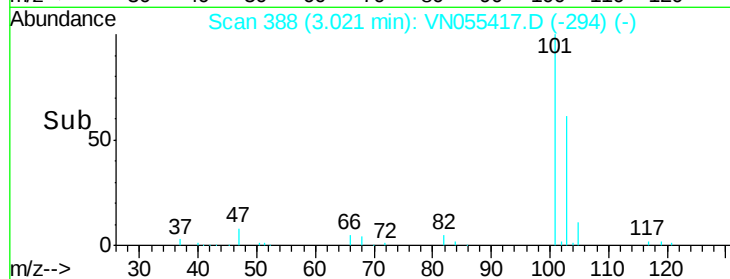
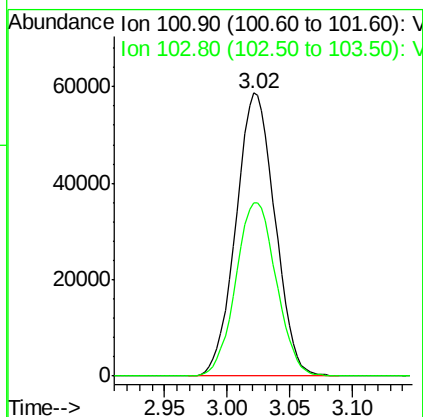
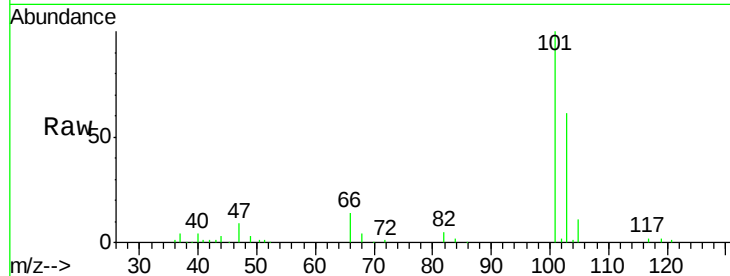
Trichlorofluoromethane
Concen: 19.247 ug/l
RT: 3.02 min Scan# 388
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

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ClientSampleId :
VN0506MBS01

Tot Ion:101 Resp: 126956
Ion Ratio Lower Upper
101 100
103 61.2 52.6 79.0

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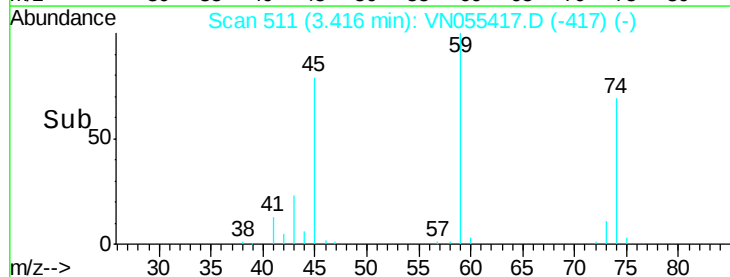
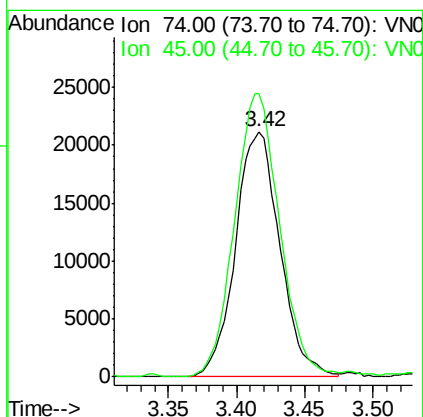
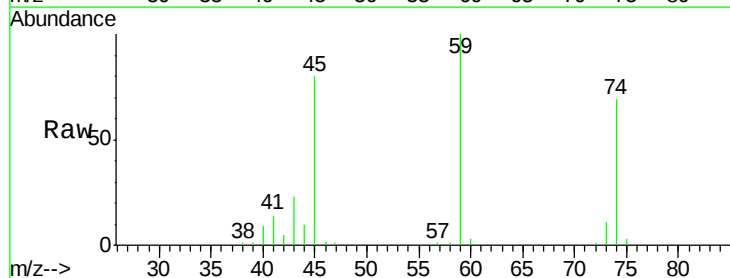
MMDadoda
5/7/2019 1:22:42 PM

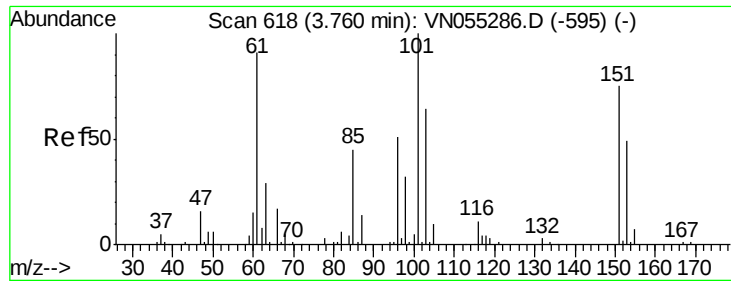


#8

Diethyl Ether
Concen: 20.725 ug/l
RT: 3.42 min Scan# 511
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion: 74 Resp: 47828
Ion Ratio Lower Upper
74 100
45 117.5 58.9 176.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.478 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

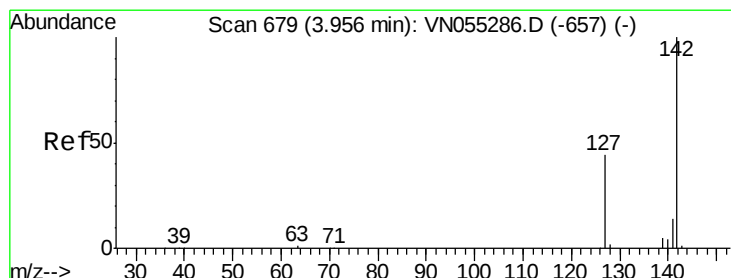
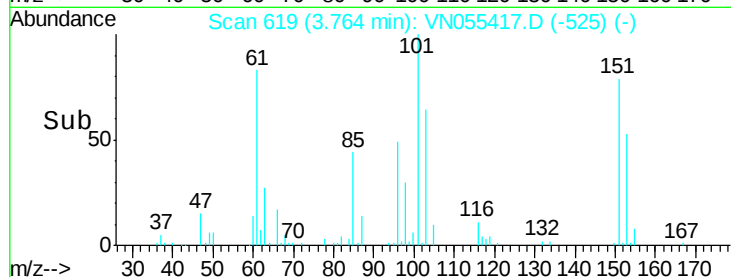
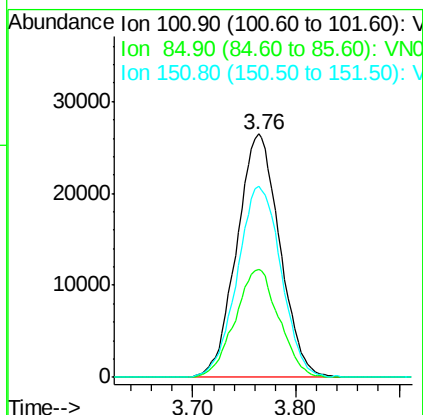
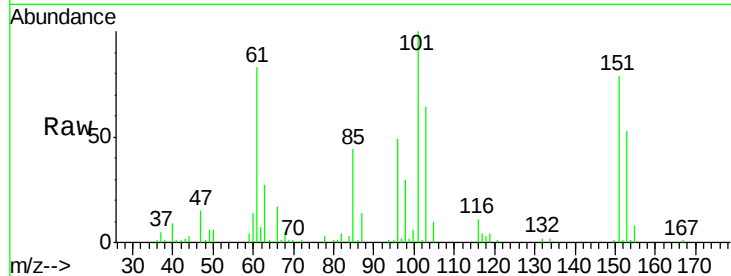
ClientSampleId :

VN0506MBS01

Tot Ion:	101	Resp:	76508
Ion Ratio	Lower	Upper	
101	100		
85	45.3	35.7	53.5
151	80.0	63.3	94.9

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#10

Methyl Iodide

Concen: 18.352 ug/l

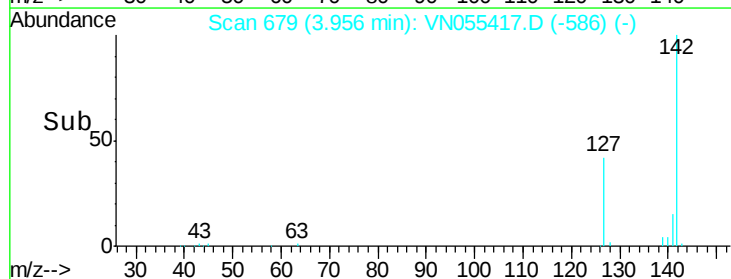
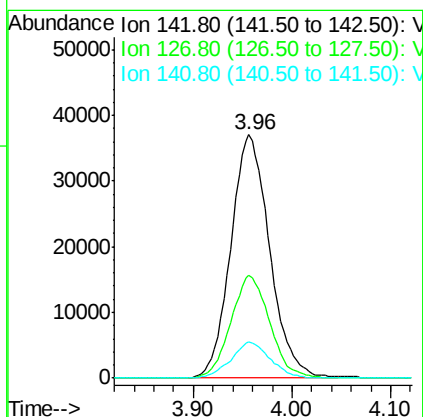
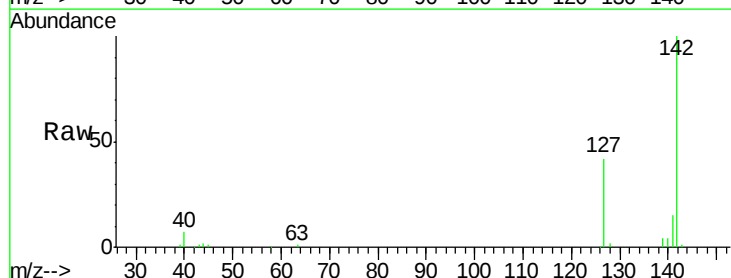
RT: 3.96 min Scan# 679

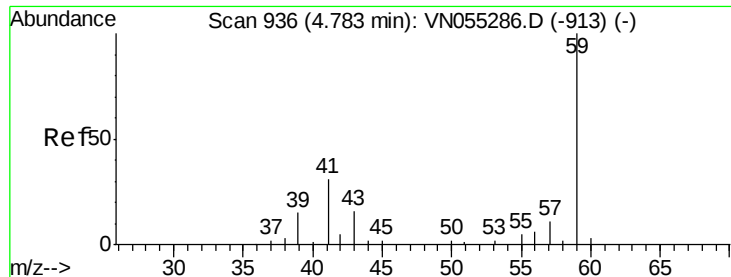
Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Tgt Ion:	142	Resp:	101447
Ion Ratio	Lower	Upper	
142	100		
127	42.1	34.4	51.6
141	14.9	11.5	17.3





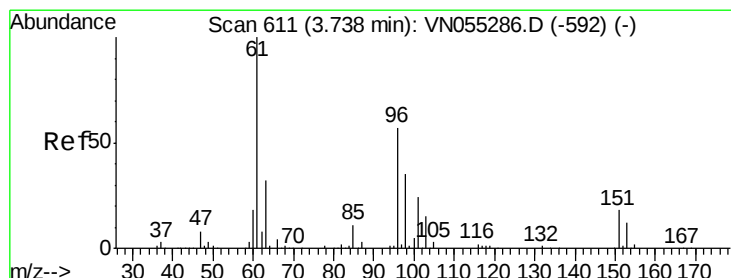
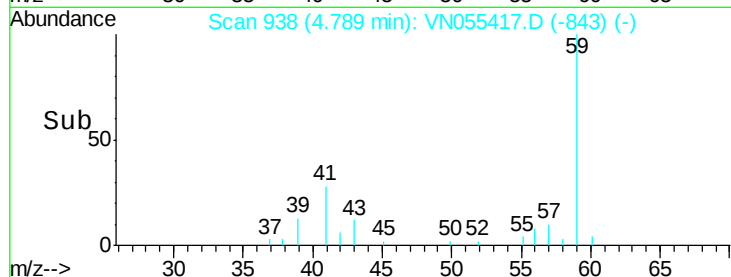
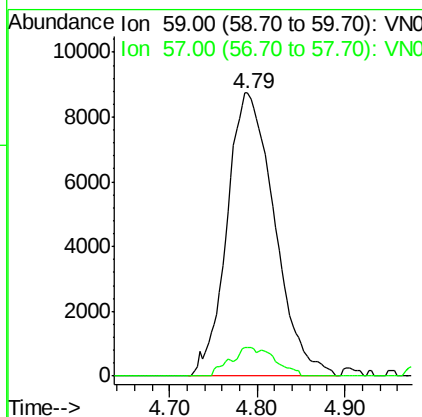
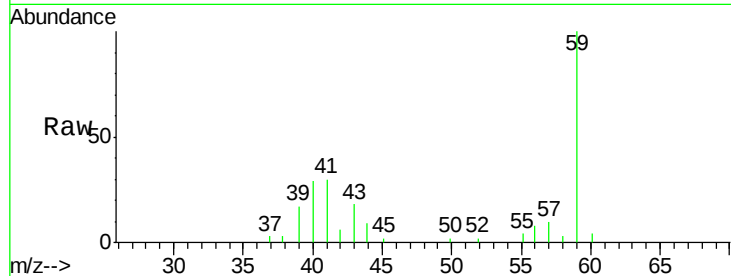
#11
Tert butyl alcohol
Concen: 115.906 ug/l
RT: 4.79 min Scan# 938
Delta R.T. 0.01 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampled :
VN0506MBS01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	32930		
57	0.0	8.2	12.2#	

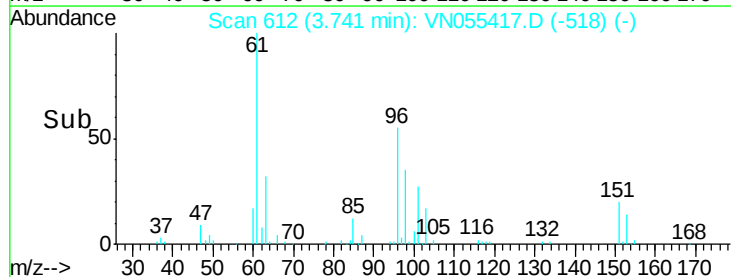
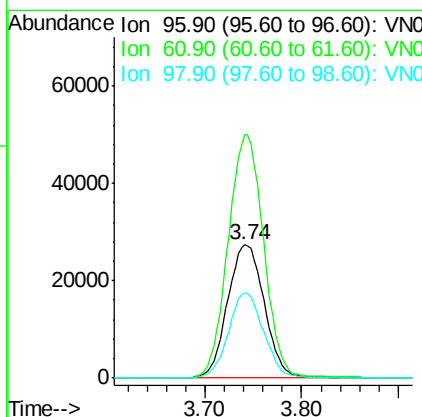
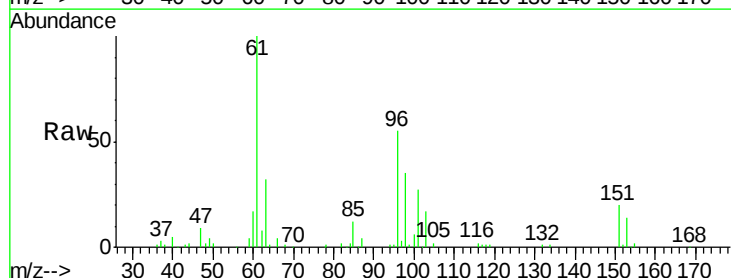
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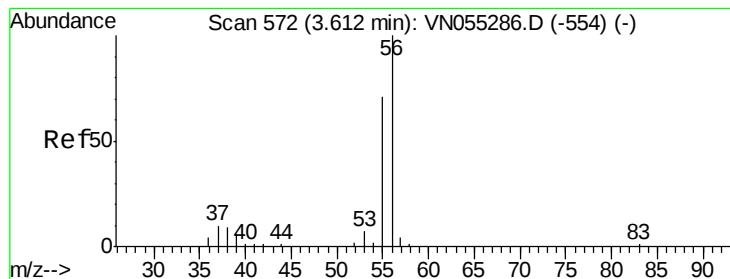
MMDadoda
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#12
1,1-Dichloroethene
Concen: 19.360 ug/l
RT: 3.74 min Scan# 612
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	72542		
61	183.0	140.9	211.3	
98	63.8	50.0	75.0	





#13

Acrolein

Concen: 73.972 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

VN0506MBS01

Tot Ion: 56 Resp: 16413

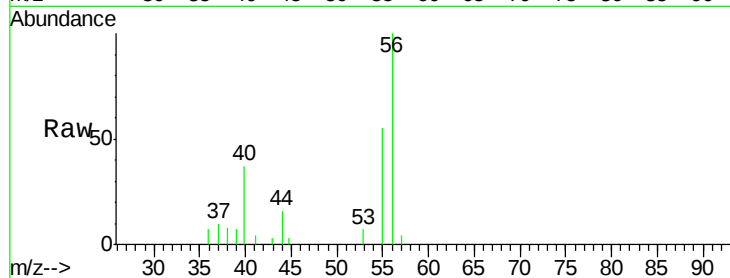
Ion Ratio Lower Upper

56 100

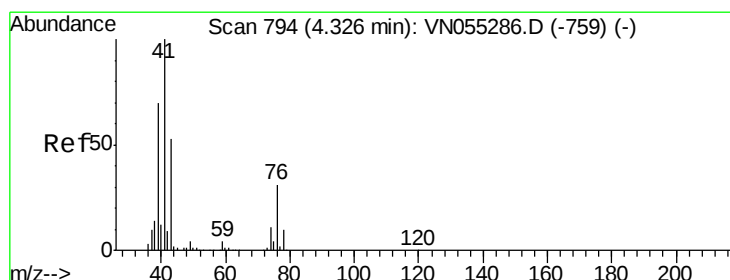
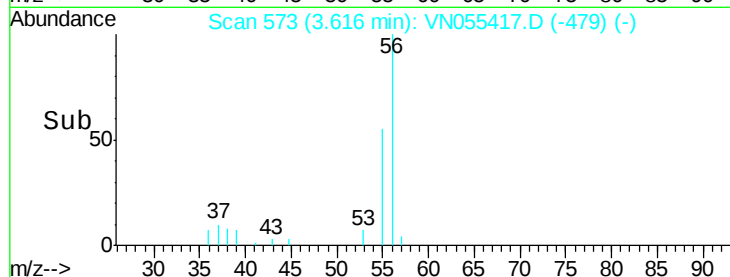
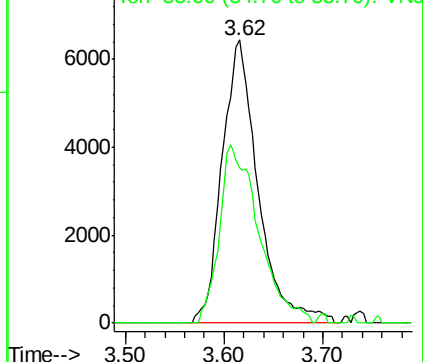
55 68.9 57.4 86.2

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Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 55.00 (54.70 to 55.70): VNO



#14

Allyl chloride

Concen: 19.158 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

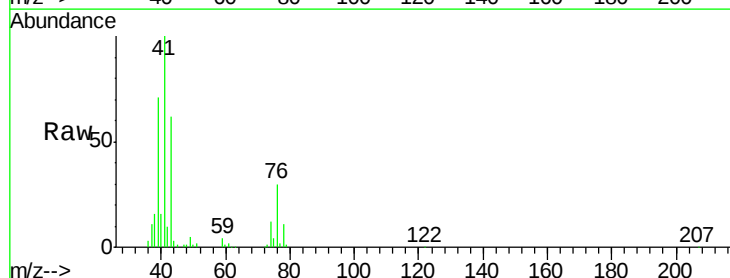
Tgt Ion: 41 Resp: 148676

Ion Ratio Lower Upper

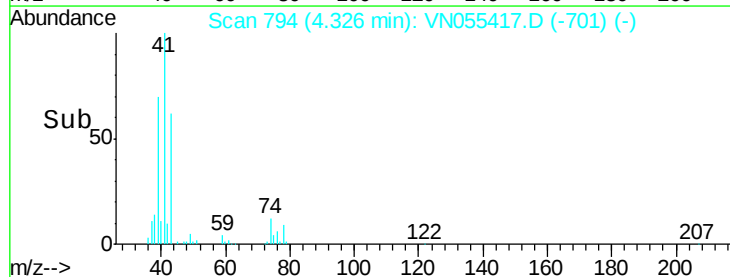
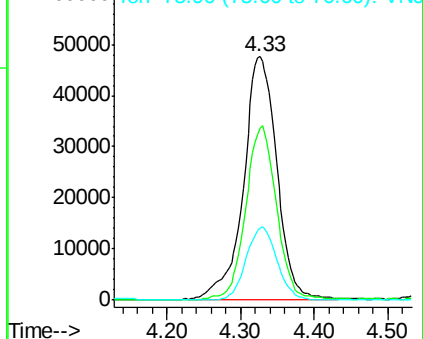
41 100

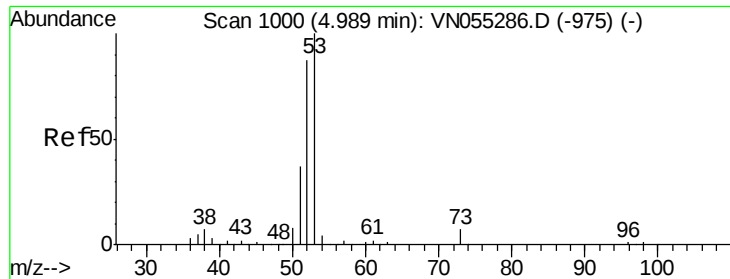
39 67.3 53.0 79.6

76 28.1 22.7 34.1



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 75.90 (75.60 to 76.60): VNO





#15

Acrylonitrile

Concen: 106.852 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

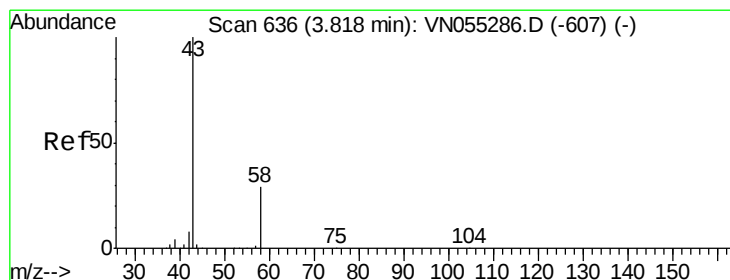
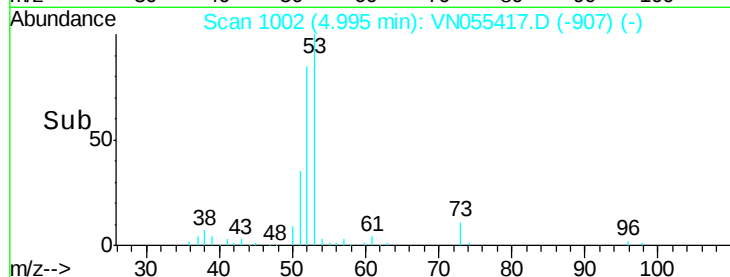
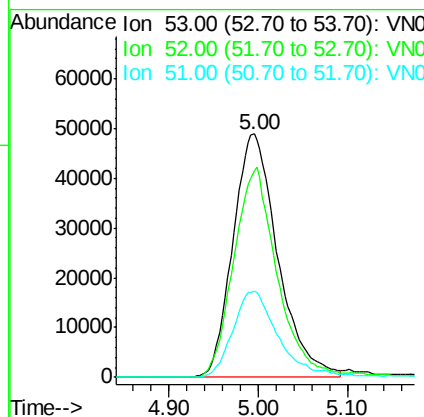
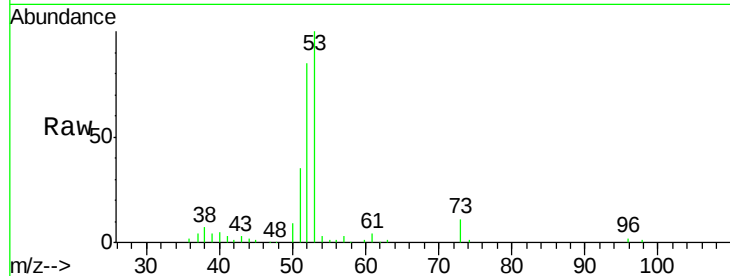
ClientSampleId :

VN0506MBS01

Tot Ion:	53	Resp:	170638
Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.5	99.7
51	34.6	29.6	44.4

Manual Integrations
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#16

Acetone

Concen: 84.786 ug/l

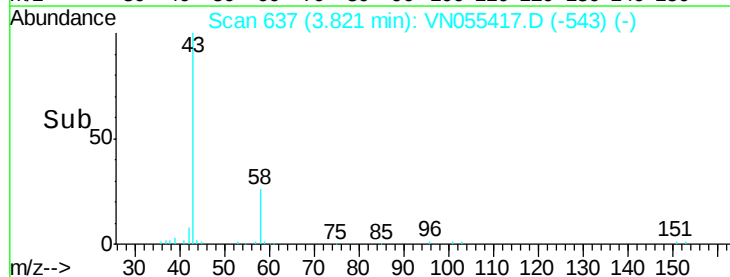
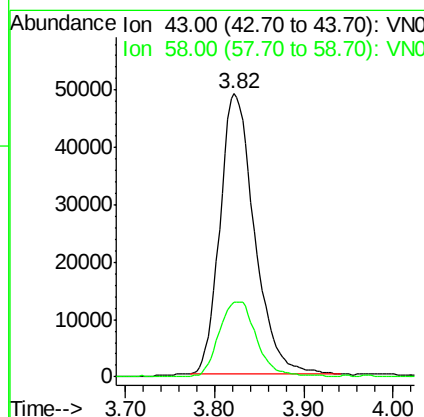
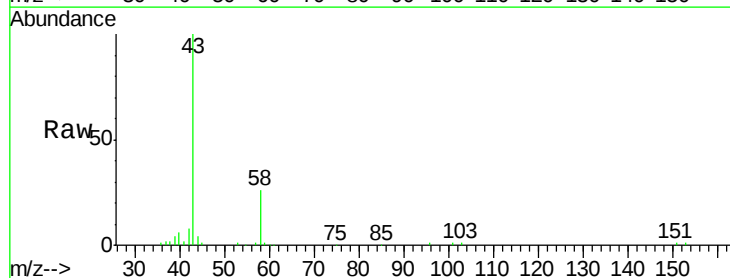
RT: 3.82 min Scan# 637

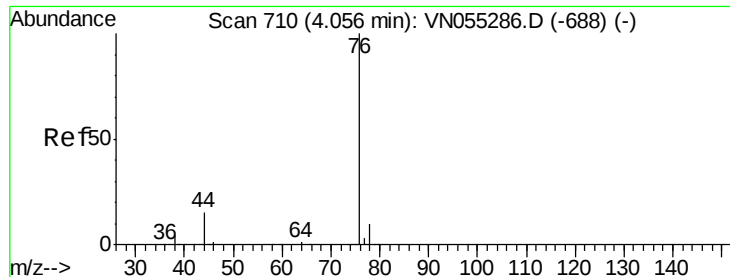
Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Tgt Ion:	43	Resp:	131097
Ion	Ratio	Lower	Upper
43	100		
58	26.2	23.6	35.4





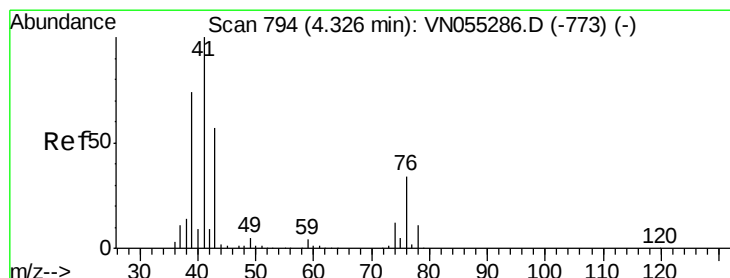
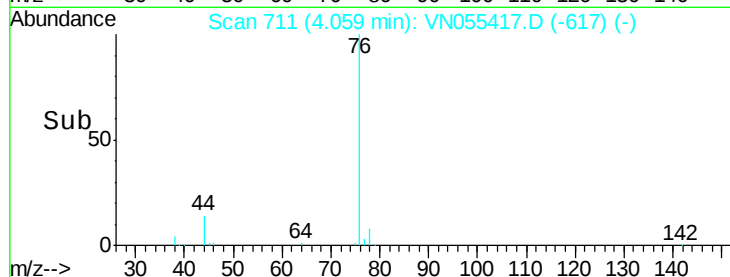
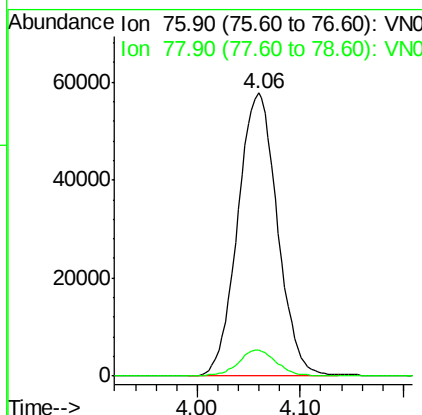
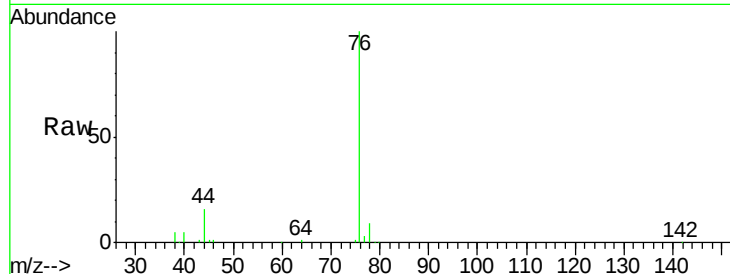
#17
Carbon Disulfide
Concen: 15.775 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
VN0506MBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.6	11.4

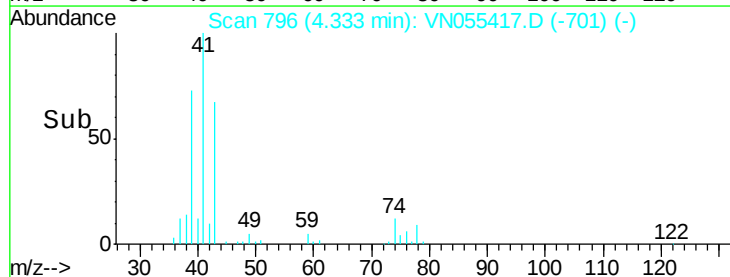
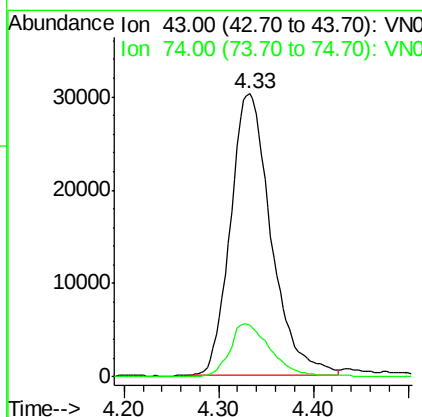
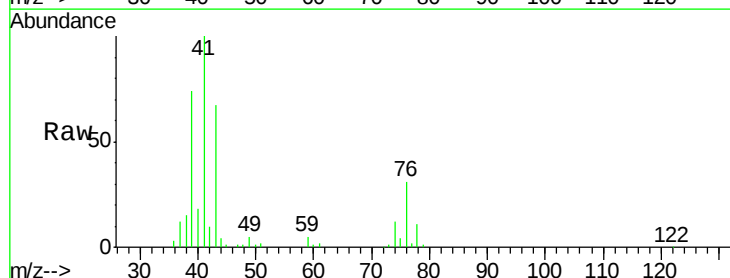
Manual Integrations
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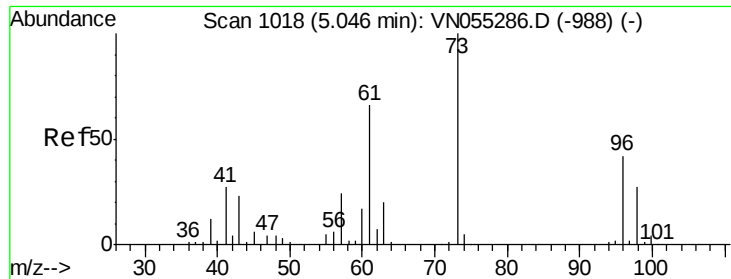
MMDadoda
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#18
Methyl Acetate
Concen: 23.406 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion	Ratio	Lower	Upper
43	100		
74	18.8	15.8	23.8





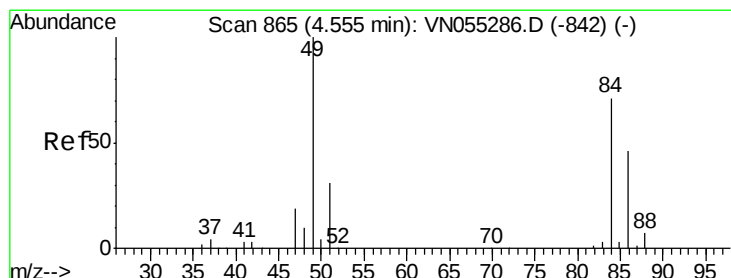
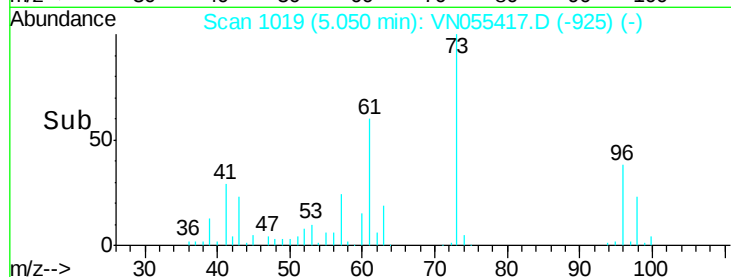
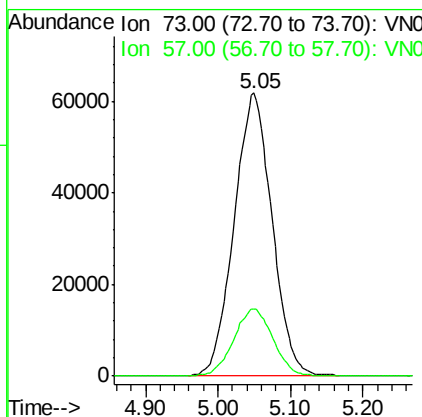
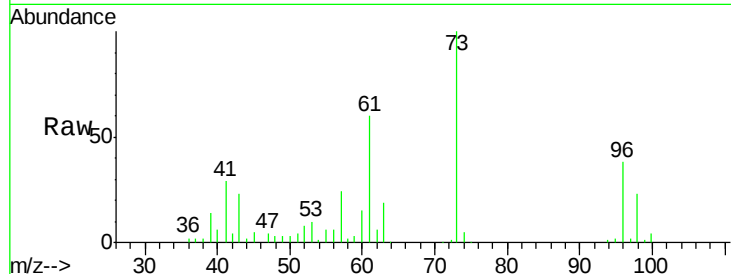
#19
Methvl tert-butvl Ether
Concen: 21.328 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
VN0506MBS01

Tot Ion: 73 Resp: 224667
Ion Ratio Lower Upper
73 100
57 23.9 19.1 28.7

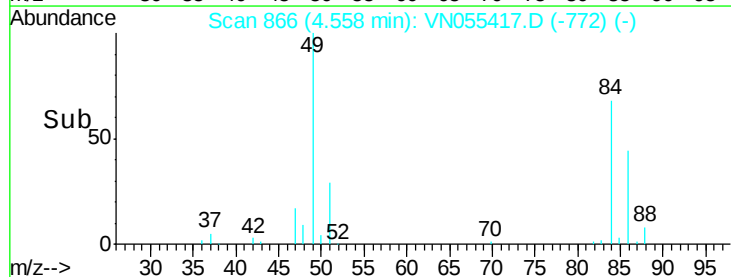
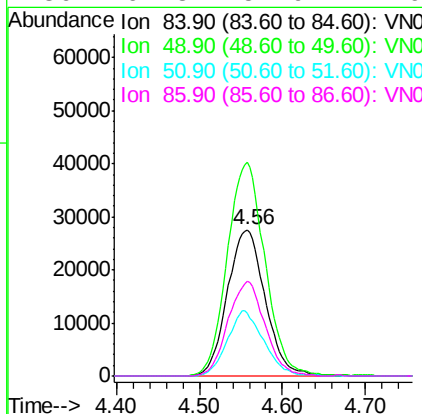
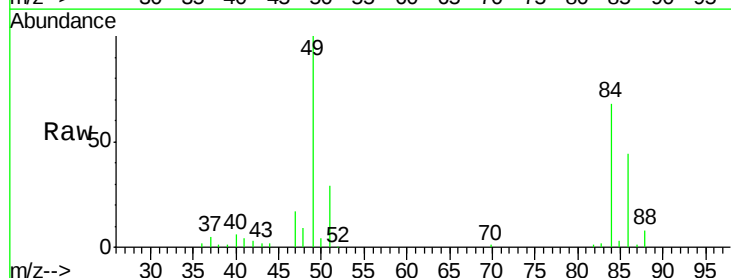
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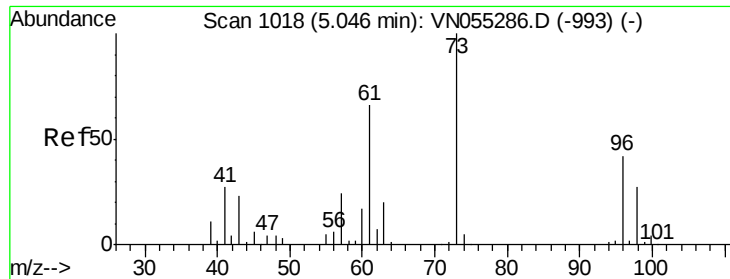
MMDadoda
5/7/2019 1:22:42 PM



#20
Methylene Chloride
Concen: 18.497 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion: 84 Resp: 87299
Ion Ratio Lower Upper
84 100
49 146.1 112.4 168.6
51 42.5 34.6 51.8
86 64.8 51.9 77.9





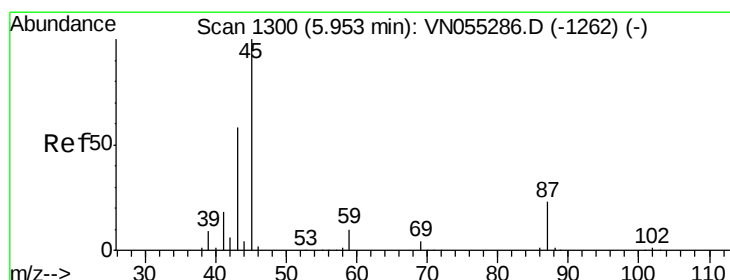
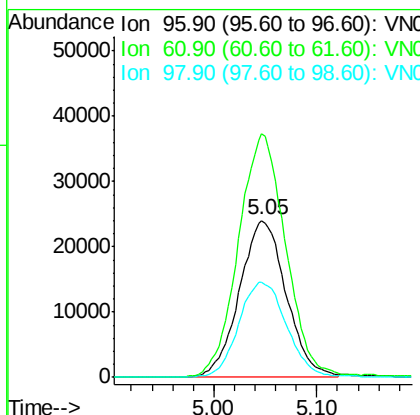
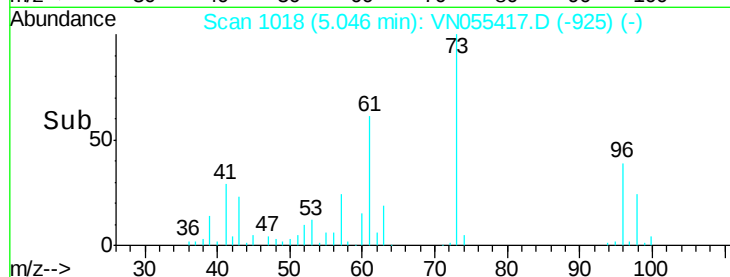
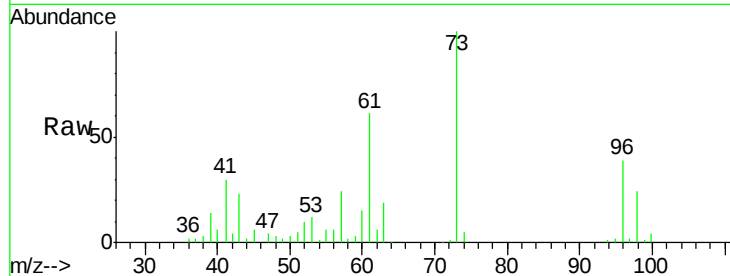
#21
trans-1,2-Dichloroethene
Concen: 19.071 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampled :
VN0506MBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	154.5	126.2	189.4
98	60.8	52.2	78.2

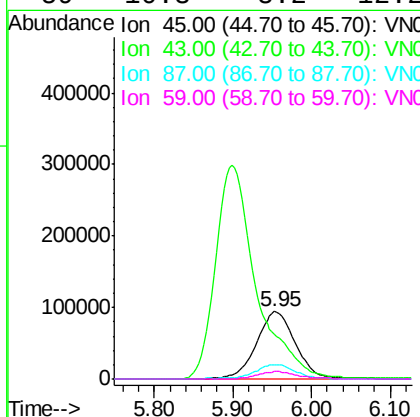
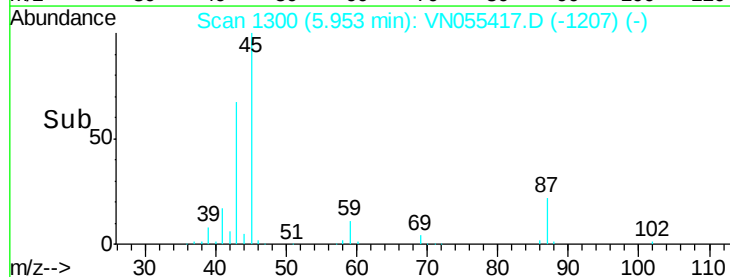
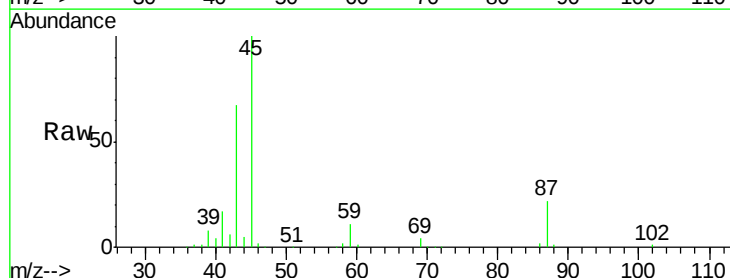
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#22
Diisopropyl ether
Concen: 21.187 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.1	46.6	70.0
87	21.4	18.1	27.1
59	10.3	8.2	12.2





#23

Vinyl Acetate

Concen: 105.832 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

VN0506MBS01

Tot Ion: 43 Resp: 1069530

Ion Ratio Lower Upper

43 100

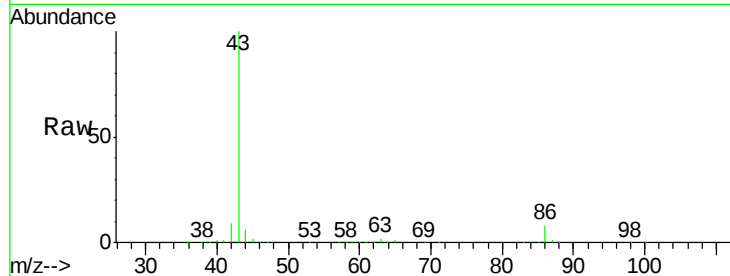
86 7.9 6.6 10.0

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.90

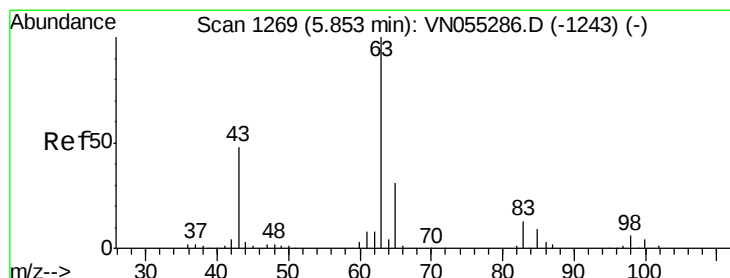
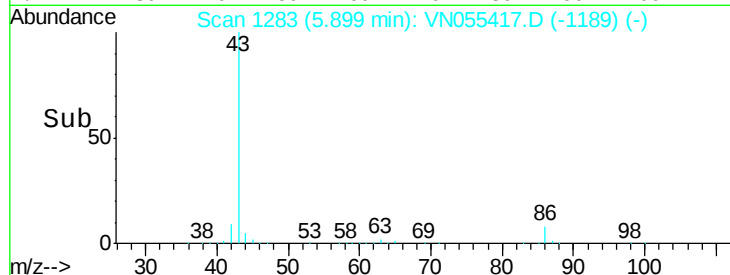
300000

200000

100000

0

Time--> 5.70 5.80 5.90 6.00 6.10



#24

1,1-Dichloroethane

Concen: 20.407 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

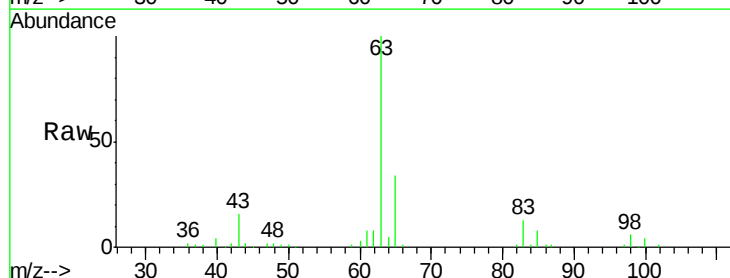
Tgt Ion: 63 Resp: 167658

Ion Ratio Lower Upper

63 100

98 5.7 3.0 9.0

100 4.0 1.8 5.4



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

5.85

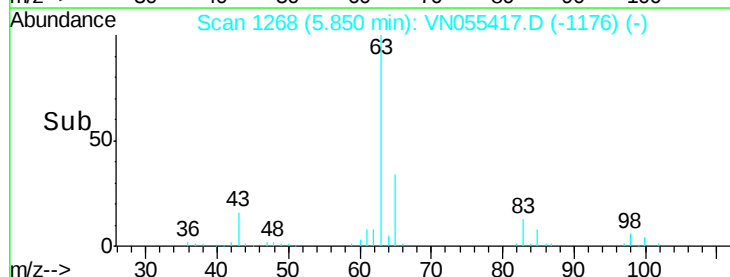
60000

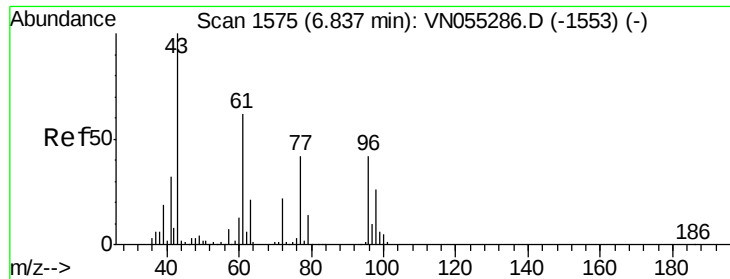
40000

20000

0

Time--> 5.70 5.80 5.90 6.00





#25

2-Butanone

Concen: 105.948 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

VN0506MBS01

Tot Ion: 43 Resp: 209502

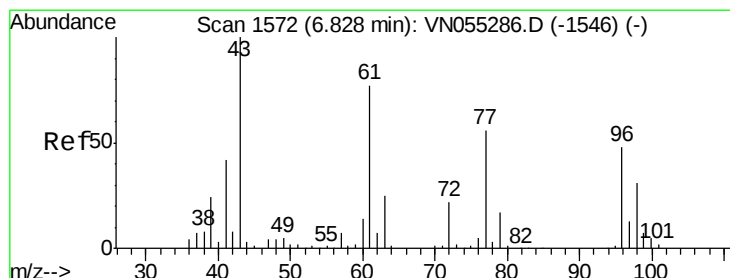
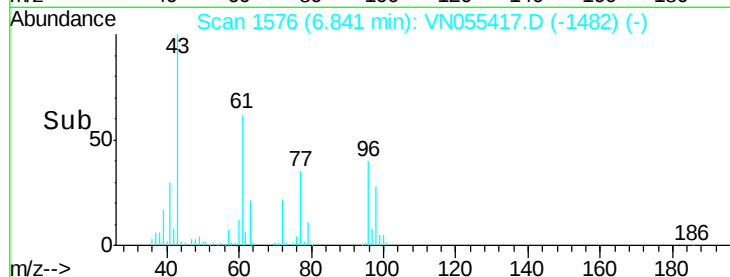
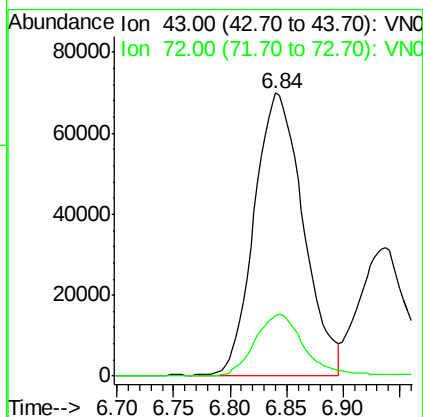
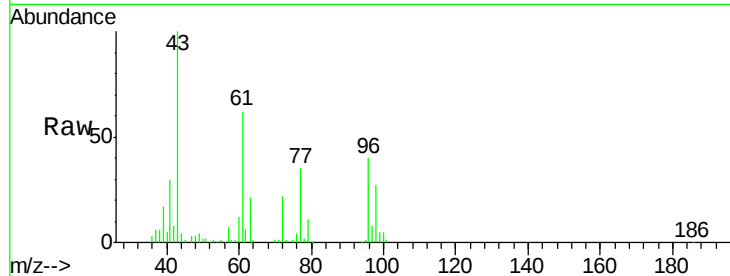
Ion Ratio Lower Upper

43 100

72 21.6 18.0 27.0

Manual Integrations
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5/7/2019 1:22:42 PM



#26

2,2-Dichloropropane

Concen: 17.335 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN055417.D

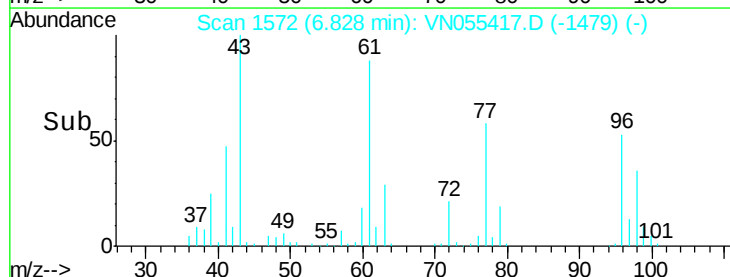
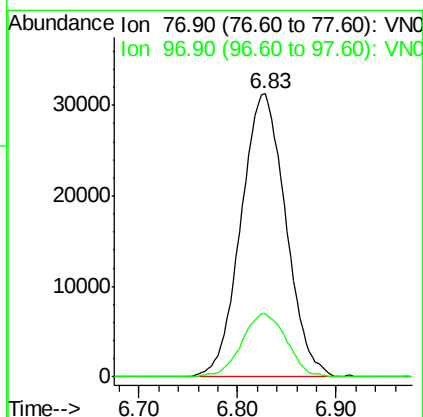
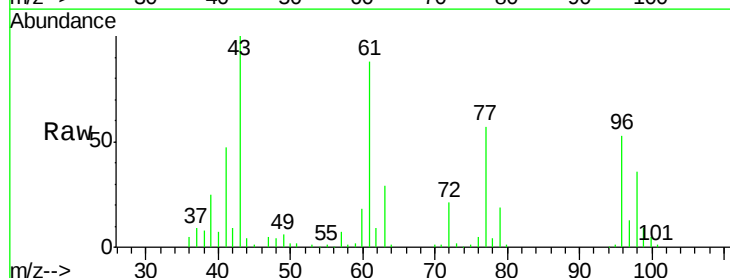
Acq: 6 May 2019 15:50

Tgt Ion: 77 Resp: 98346

Ion Ratio Lower Upper

77 100

97 22.4 11.4 34.2





#27

cis-1,2-Dichloroethene

Concen: 19.885 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

VN0506MBS01

Tot Ion: 96 Resp: 89738

Ion Ratio Lower Upper

96 100

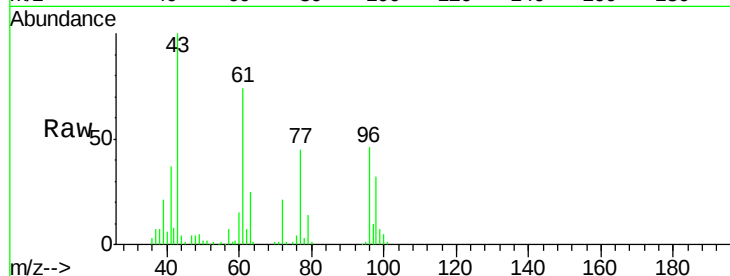
61 160.5 0.0 316.2

98 64.9 0.0 126.6

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MMDadoda

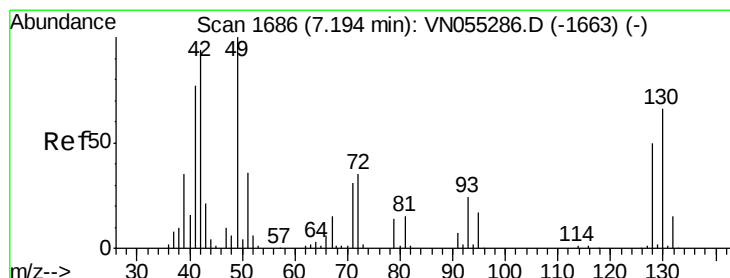
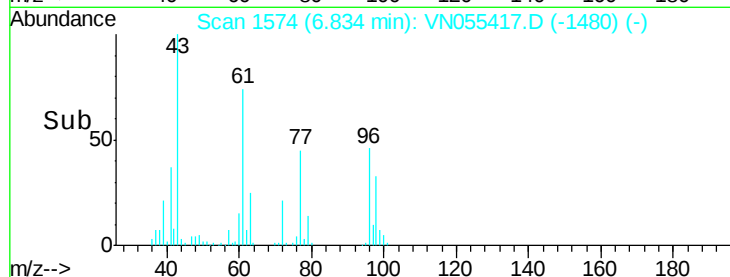
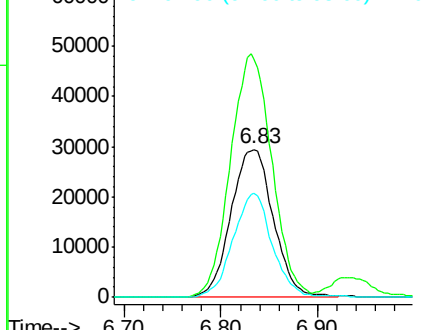
5/7/2019 1:22:42 PM



Abundance Ion 95.90 (95.60 to 96.60): VN055417.D (-1549) (-)

Ion 60.90 (60.60 to 61.60): VN055417.D (-1549) (-)

Ion 97.90 (97.60 to 98.60): VN055417.D (-1549) (-)



#28

Bromochloromethane

Concen: 21.273 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

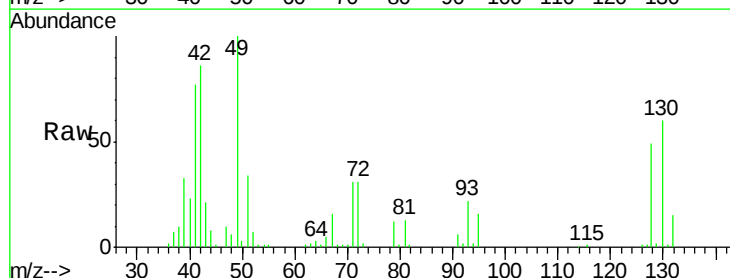
Tgt Ion: 49 Resp: 88097

Ion Ratio Lower Upper

49 100

129 0.8 0.0 2.4

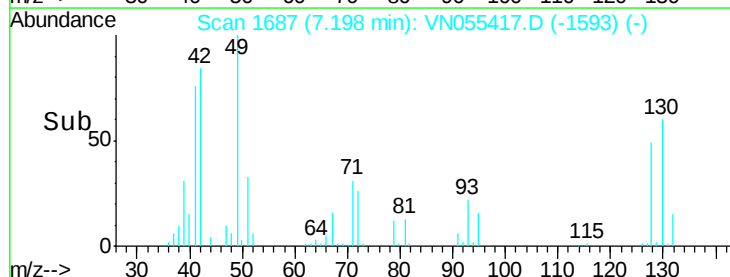
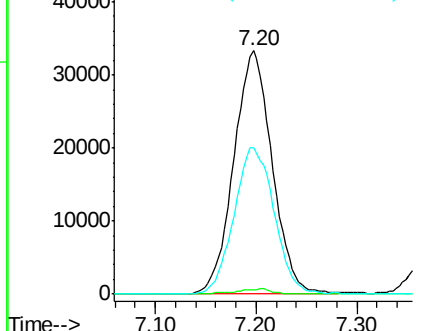
130 62.8 52.0 78.0

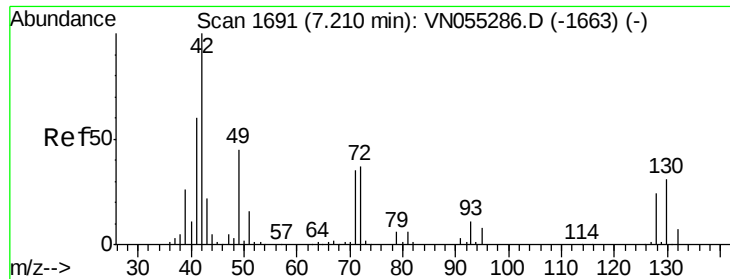


Abundance Ion 48.90 (48.60 to 49.60): VN055417.D (-1593) (-)

Ion 128.80 (128.50 to 129.50): VN055417.D (-1593) (-)

Ion 129.80 (129.50 to 130.50): VN055417.D (-1593) (-)





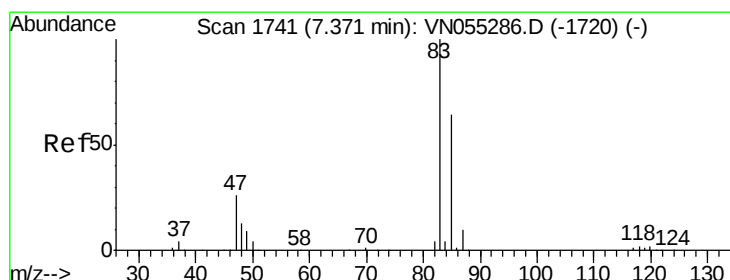
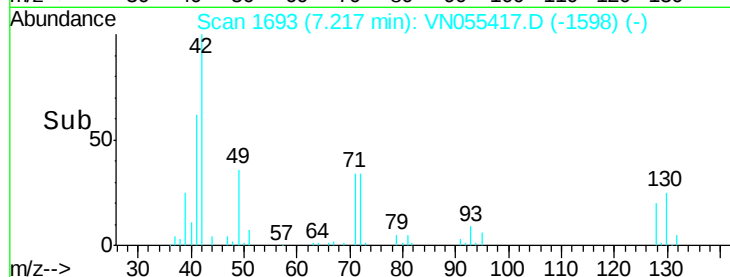
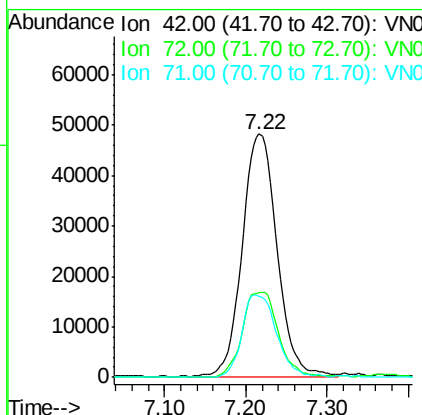
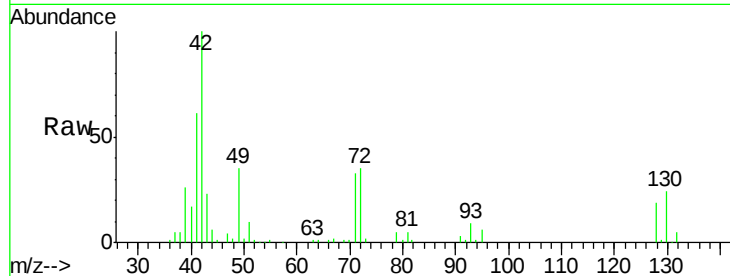
#29
Tetrahydrofuran
Concen: 111.238 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.01 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
VN0506MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.7	29.0	43.6
71	33.8	27.1	40.7

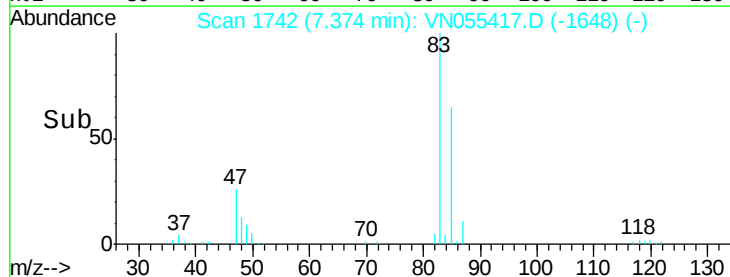
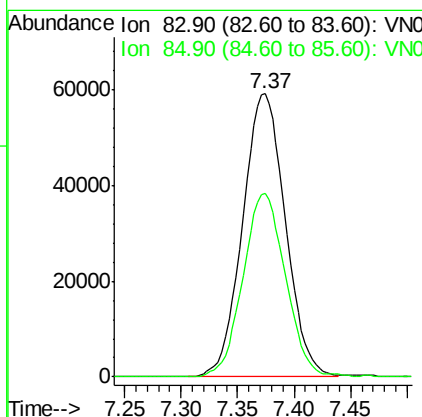
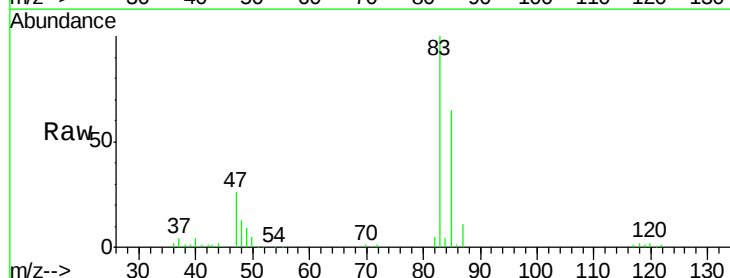
Manual Integrations
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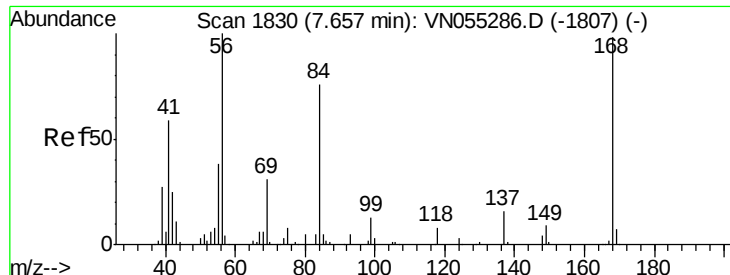
MMDadoda
5/7/2019 1:22:42 PM



#30
Chloroform
Concen: 20.010 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.4	77.2





#31

Cyclohexane

Concen: 19.062 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

VN0506MBS01

Tot Ion: 56 Resp: 148788

Ion Ratio Lower Upper

56 100

69 34.5 25.2 37.8

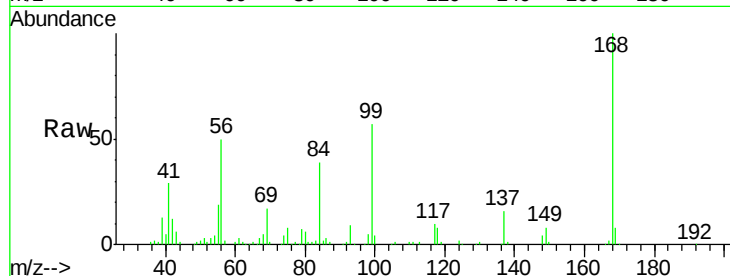
84 76.6 61.1 91.7

Manual Integrations

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MMDadoda

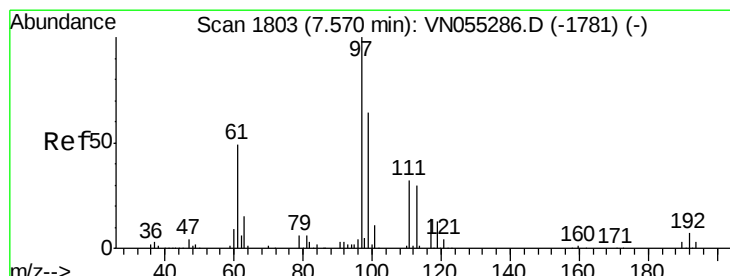
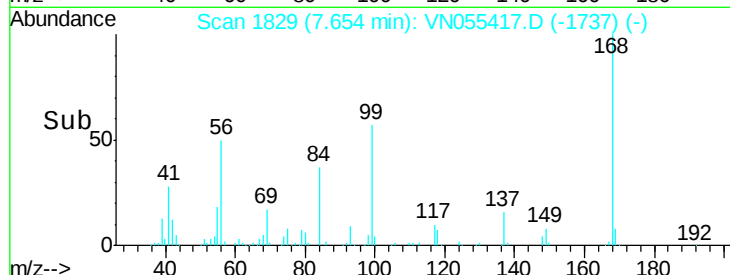
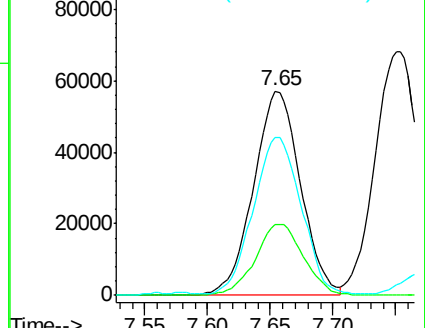
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 19.661 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

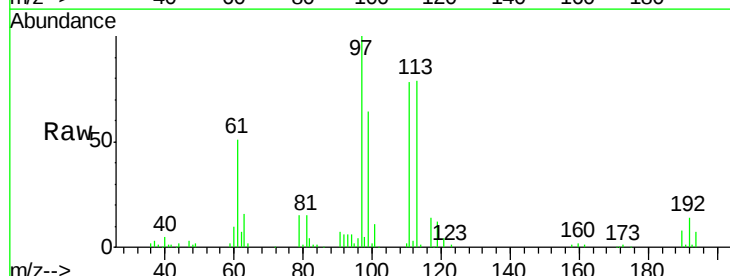
Tgt Ion: 97 Resp: 124275

Ion Ratio Lower Upper

97 100

99 63.6 51.8 77.8

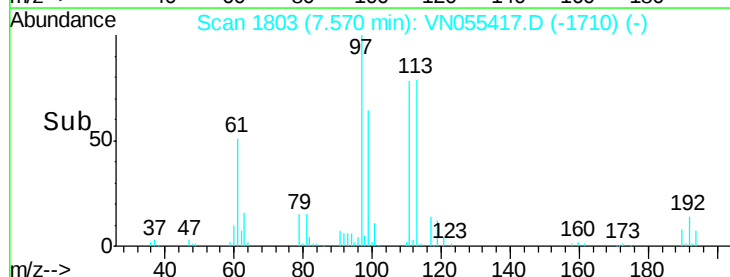
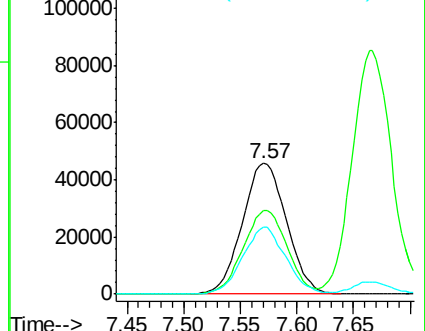
61 49.7 39.0 58.6

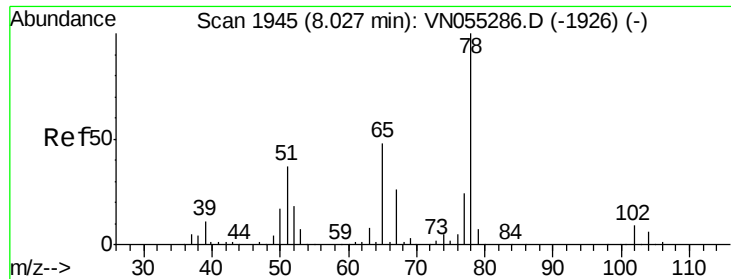


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0





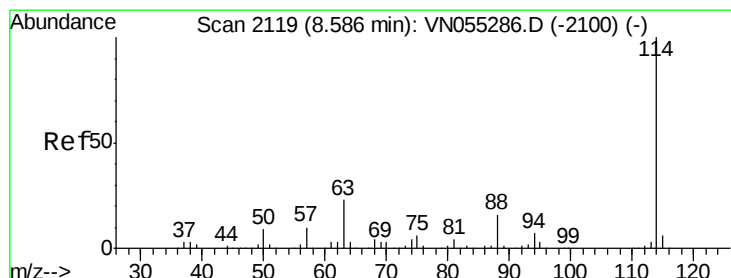
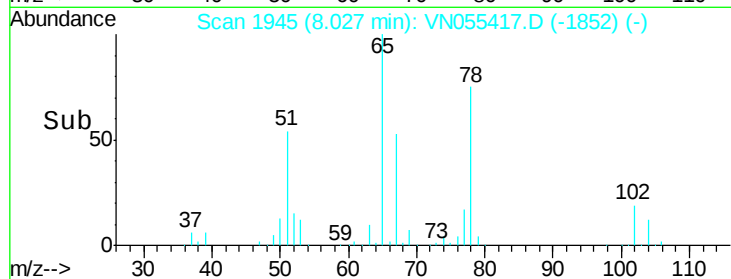
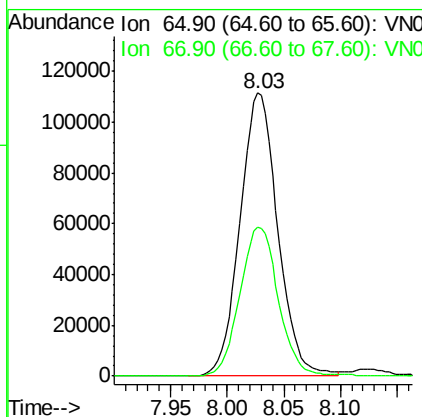
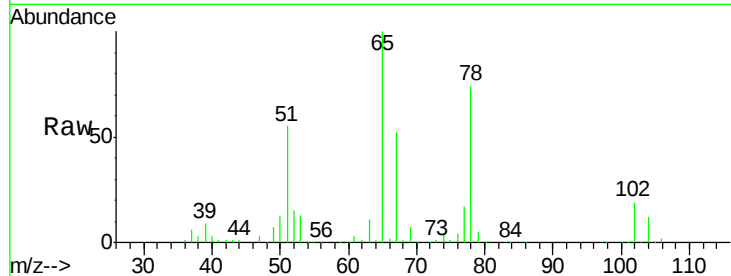
#33
 1,2-Dichloroethane-d4
 Concen: 52.216 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055417.D
 Acq: 6 May 2019 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0506MBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	259115		
67	53.5	0.0	106.8	

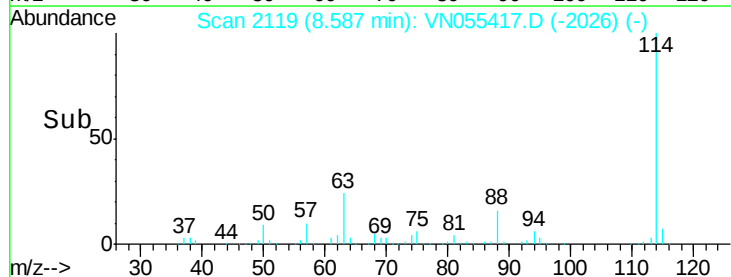
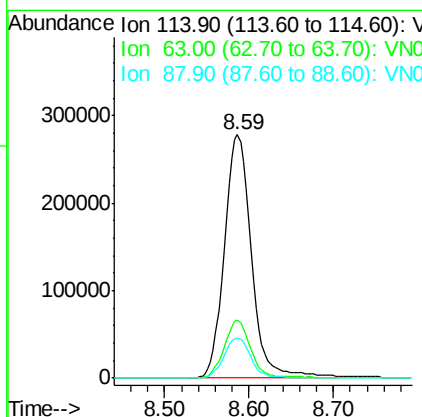
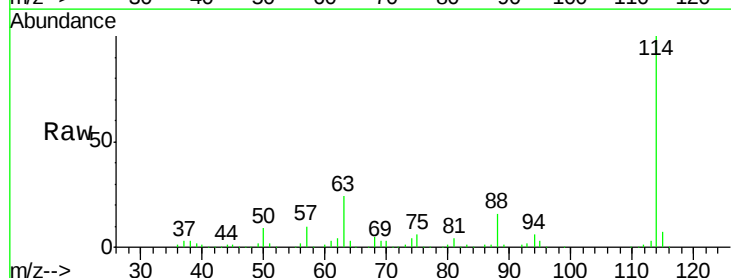
Manual Integrations
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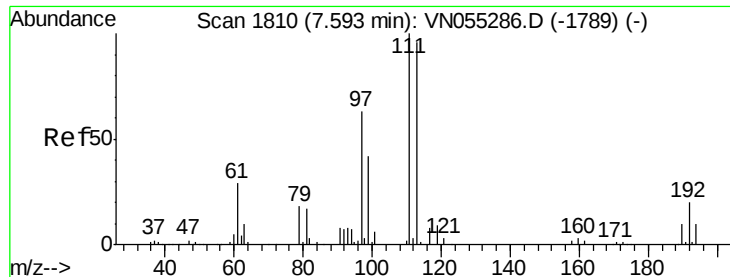
MMDadoda
 5/7/2019 1:22:42 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055417.D
 Acq: 6 May 2019 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	622008		
63	23.8	0.0	45.2	
88	16.4	0.0	31.6	





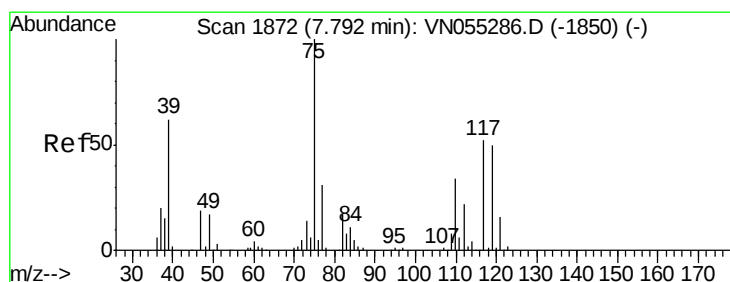
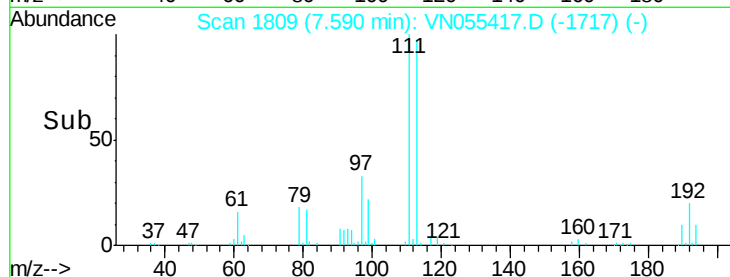
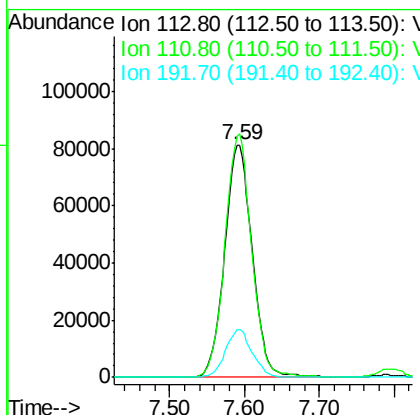
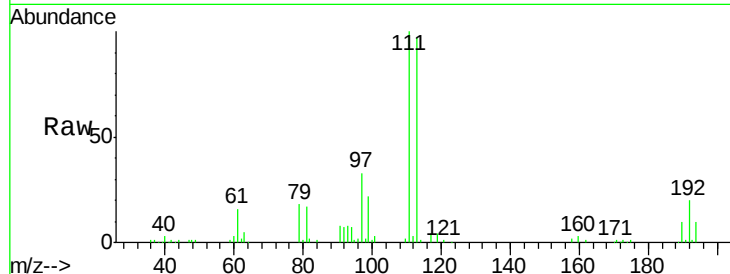
#35
 Dibromofluoromethane
 Concen: 50.865 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN055417.D
 Acq: 6 May 2019 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0506MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	207665		
111	101.1	82.3	123.5	
192	20.0	17.0	25.6	

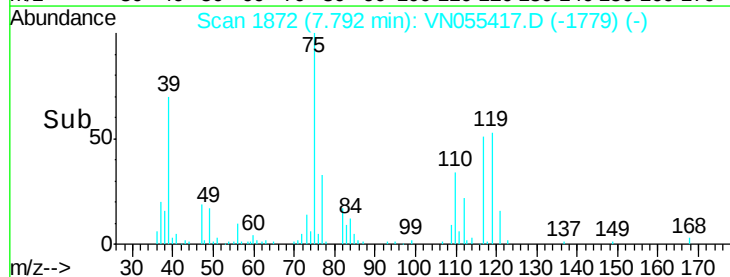
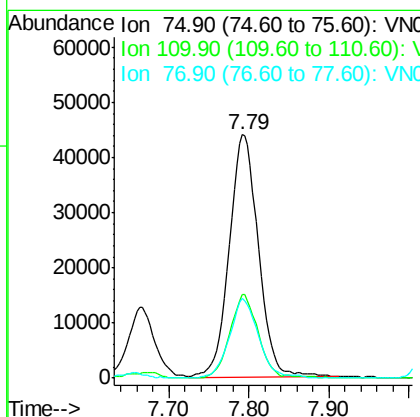
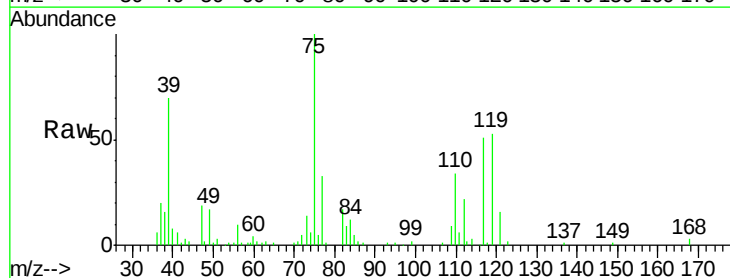
Manual Integrations
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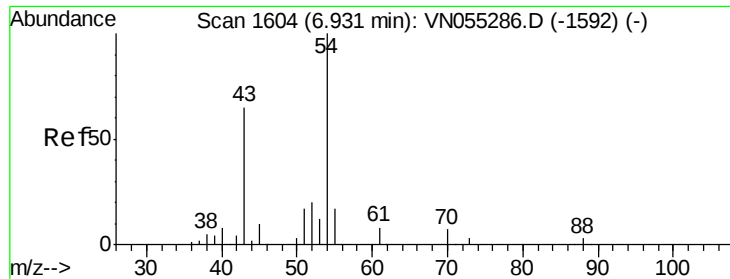
MMDadoda
 5/7/2019 1:22:42 PM



#36
 1,1-Dichloropropene
 Concen: 18.400 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN055417.D
 Acq: 6 May 2019 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	109627		
110	32.7	16.8	50.4	
77	32.6	25.0	37.6	





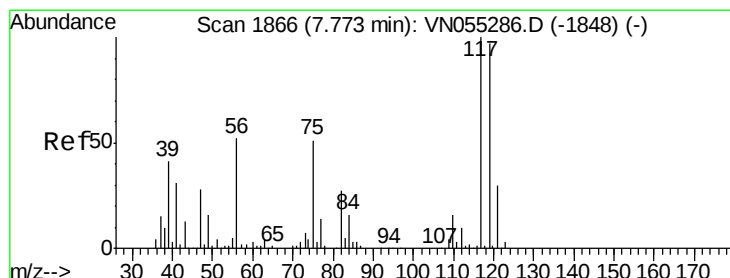
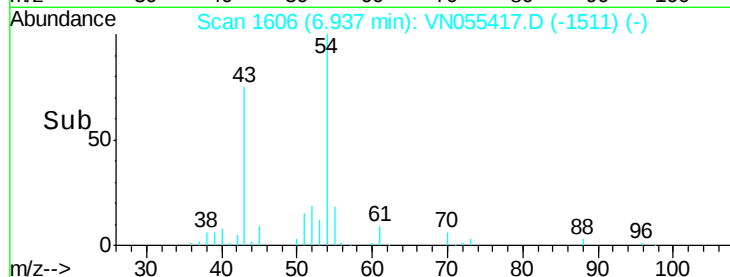
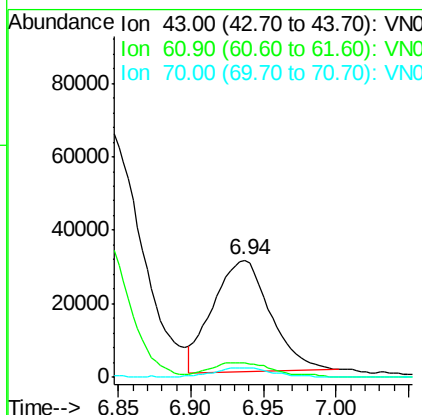
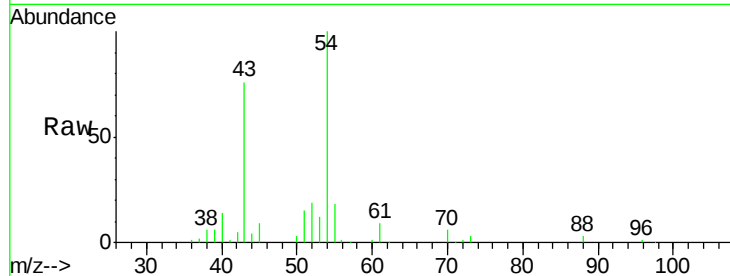
#37
Ethyl Acetate
Concen: 18.331 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.01 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
VN0506MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.2	10.4	15.6
70	8.8	6.6	10.0

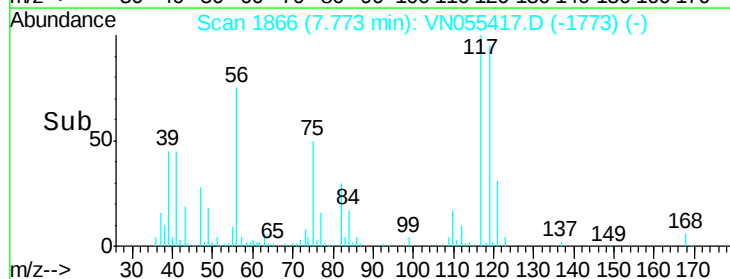
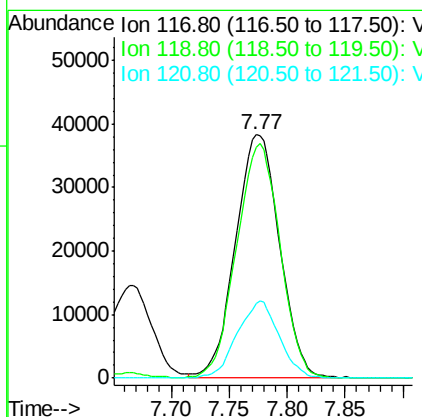
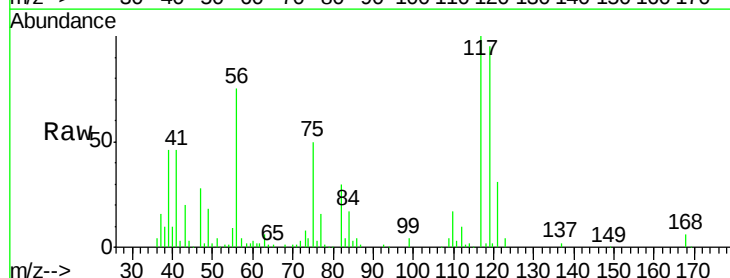
Manual Integrations
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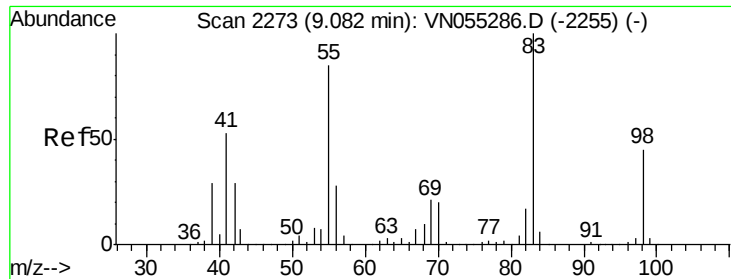
MMDadoda
5/7/2019 1:22:42 PM



#38
Carbon Tetrachloride
Concen: 17.689 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.8	77.0	115.6
121	30.9	23.8	35.8





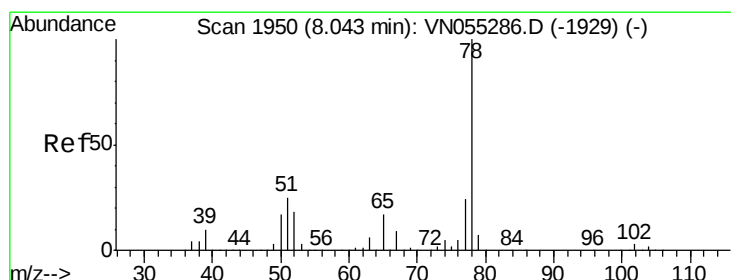
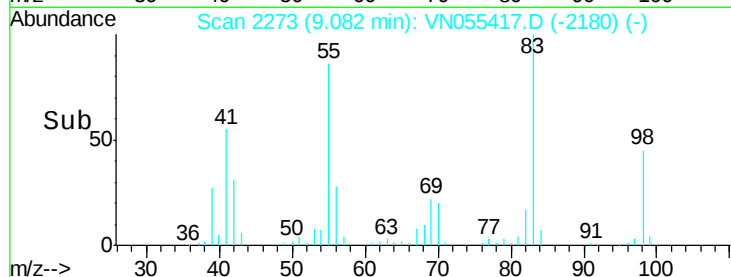
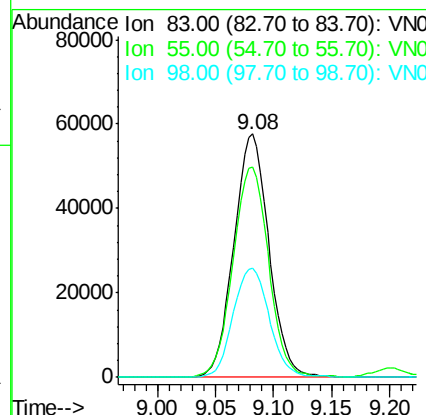
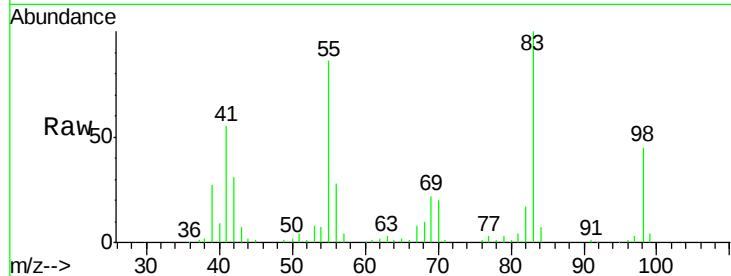
#39
Methvlcvclohexane
Concen: 19.107 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
VN0506MBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.0	67.8	101.6
98	44.6	36.2	54.4

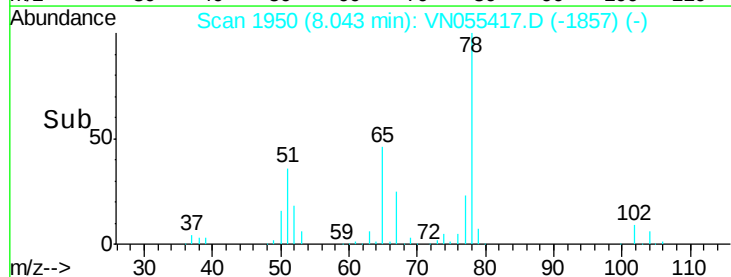
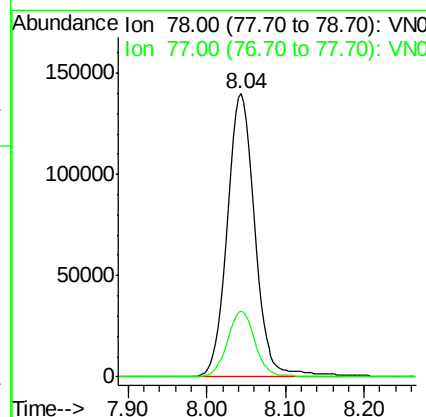
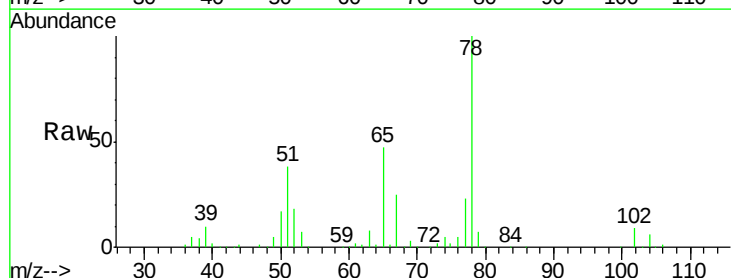
Manual Integrations
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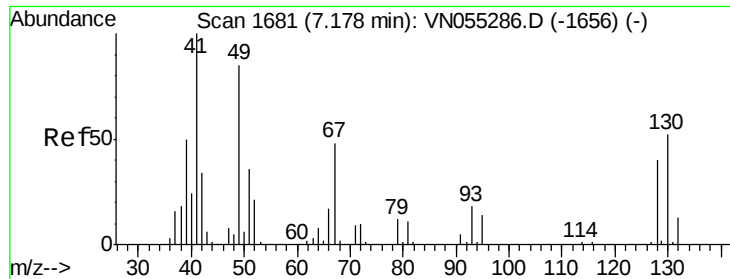
MMDadoda
5/7/2019 1:22:42 PM



#40
Benzene
Concen: 19.398 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.6





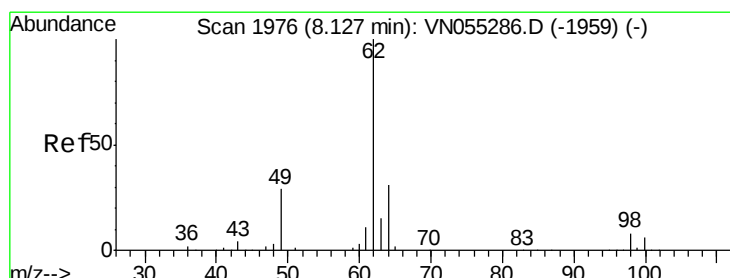
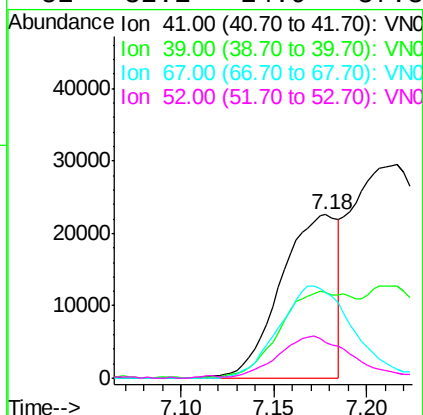
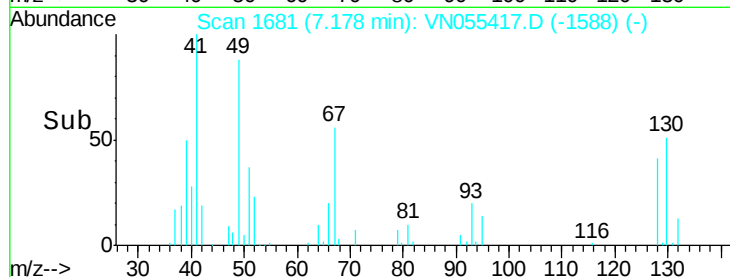
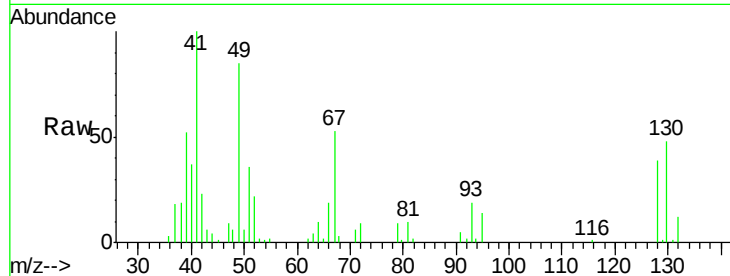
#41
Methacrylonitrile
Concen: 20.024 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
VN0506MBS01

Tot Ion	41	Resp	48373
Ion Ratio	Lower	Upper	
41	100		
39	66.9	48.5	72.7
67	74.7	54.9	82.3
52	32.1	24.9	37.3

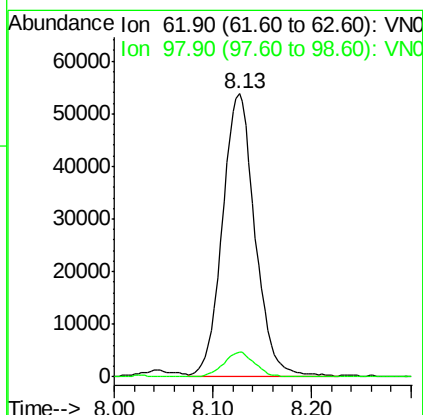
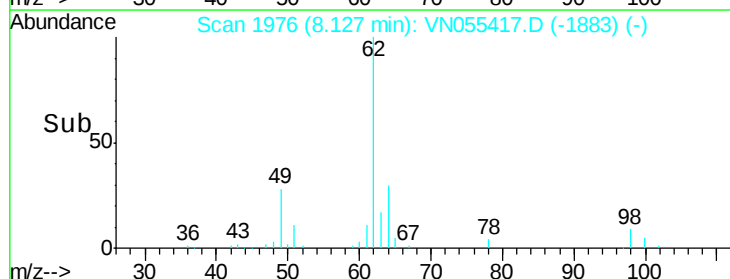
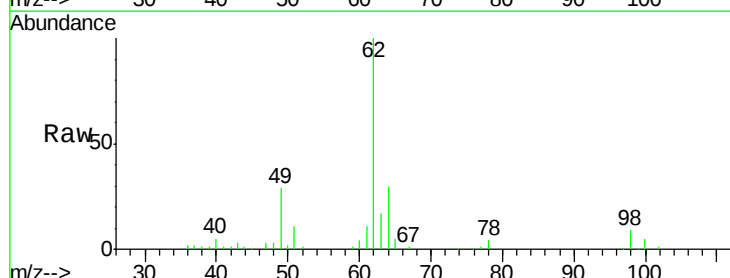
Manual Integrations
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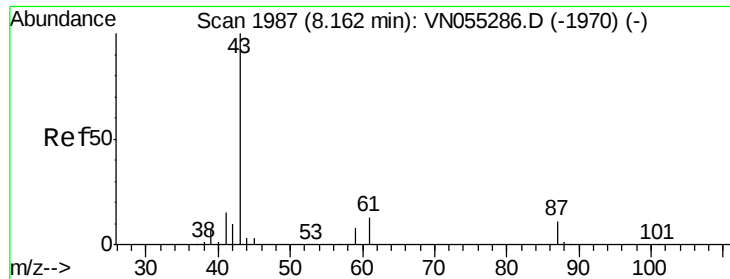
MMDadoda
5/7/2019 1:22:42 PM



#42
1,2-Dichloroethane
Concen: 19.866 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion	62	Resp	123578
Ion Ratio	Lower	Upper	
62	100		
98	8.5	0.0	16.4





#43

Isopropyl Acetate

Concen: 21.796 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

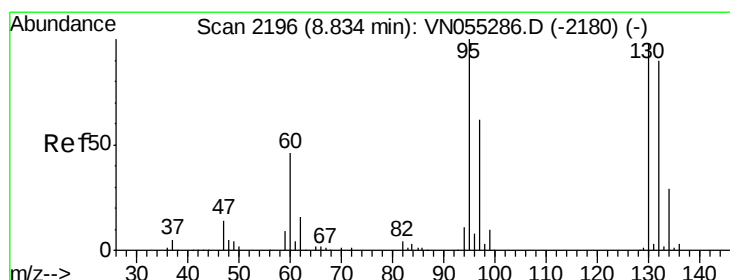
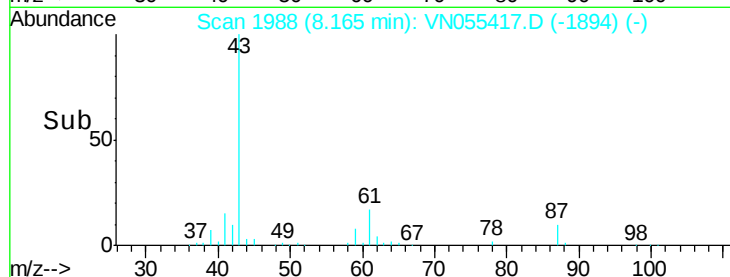
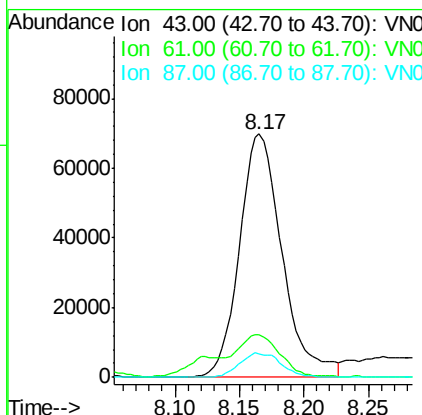
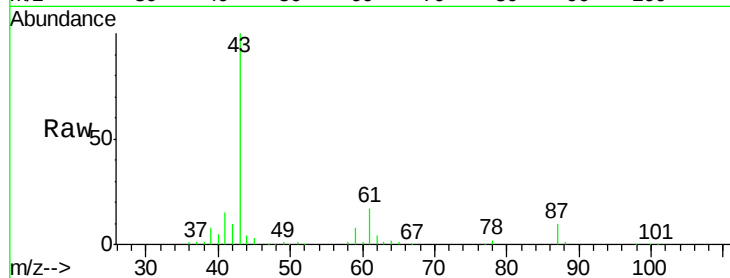
ClientSampleId :

VN0506MBS01

Tot Ion:	43	Resp:	159941
Ion	Ratio	Lower	Upper
43	100		
61	17.6	20.8	31.2#
87	9.9	8.5	12.7

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5/7/2019 1:22:42 PM



#44

Trichloroethene

Concen: 18.198 ug/l

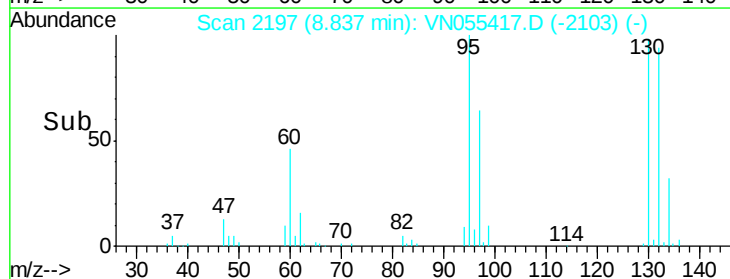
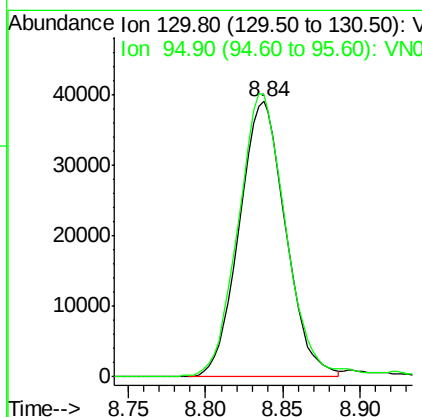
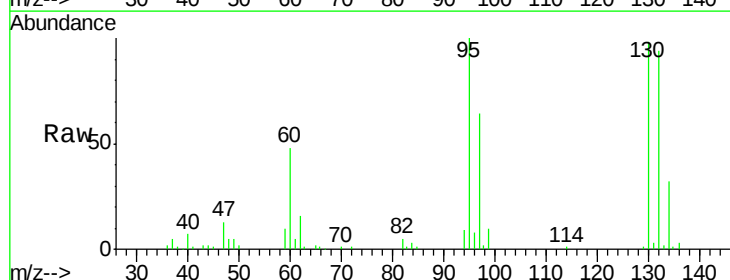
RT: 8.84 min Scan# 2197

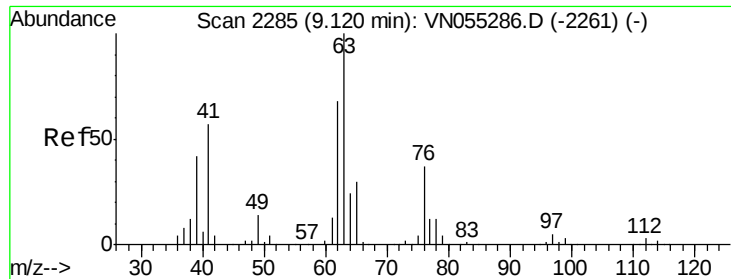
Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Tgt Ion:	130	Resp:	81478
Ion	Ratio	Lower	Upper
130	100		
95	101.9	0.0	203.4





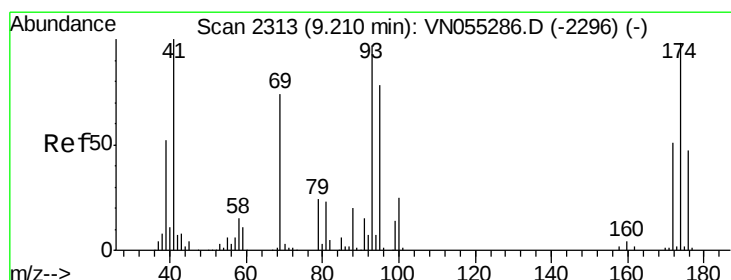
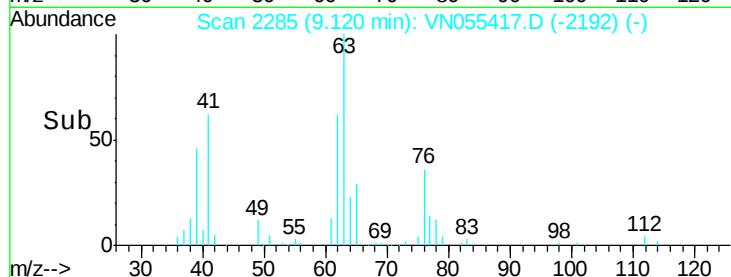
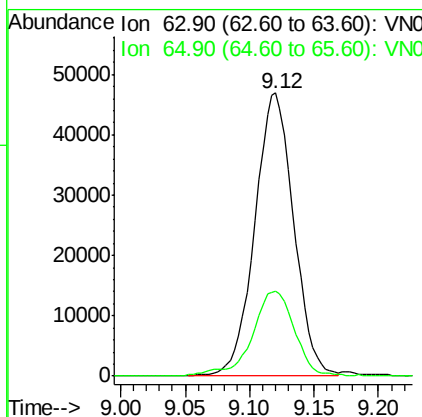
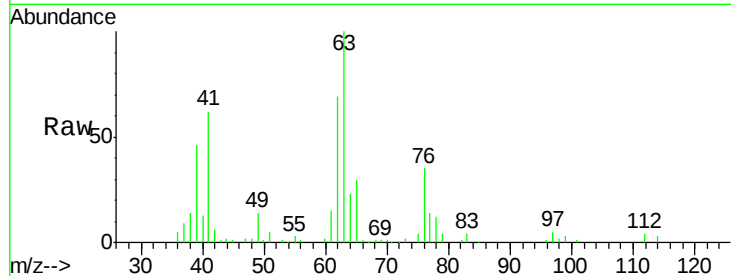
#45
 1,2-Dichloropropane
 Concen: 19.489 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN055417.D
 Acq: 6 May 2019 15:50

Instrument :
 MSVOA_N
 ClientSampled :
 VN0506MBS01

Tot Ion: 63 Resp: 98721
 Ion Ratio Lower Upper
 63 100
 65 29.4 23.9 35.9

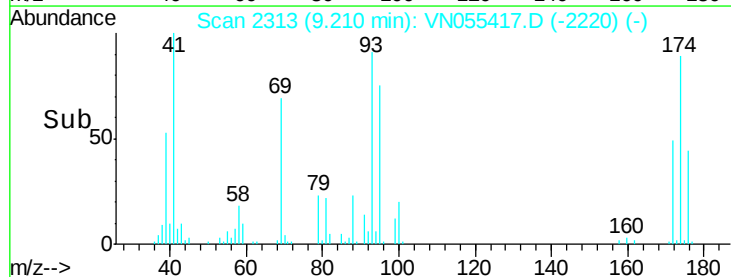
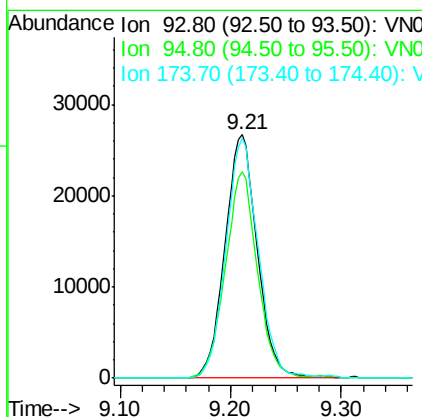
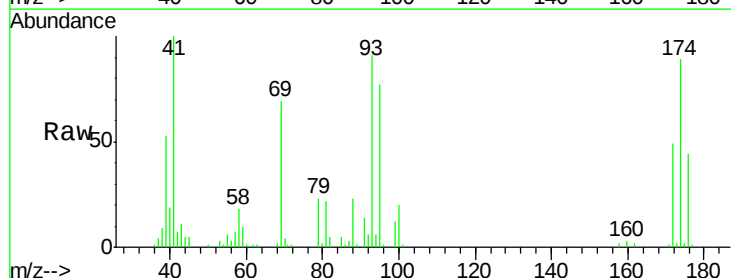
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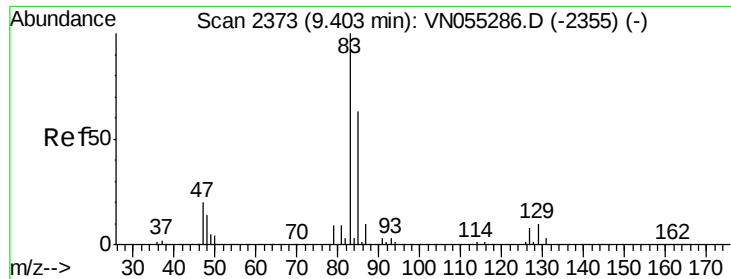
MMDadoda
 5/7/2019 1:22:42 PM



#46
 Dibromomethane
 Concen: 19.566 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN055417.D
 Acq: 6 May 2019 15:50

Tgt Ion: 93 Resp: 54176
 Ion Ratio Lower Upper
 93 100
 95 83.9 65.7 98.5
 174 98.5 81.5 122.3





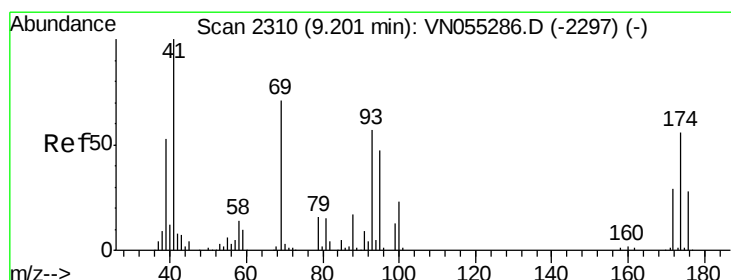
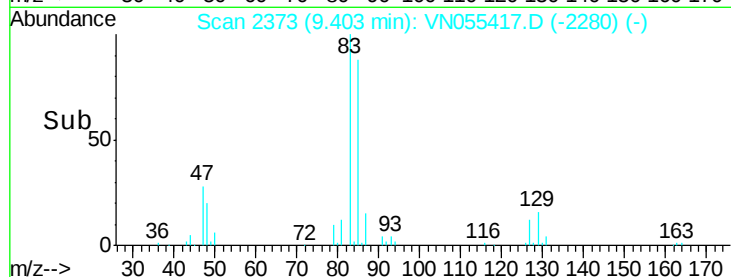
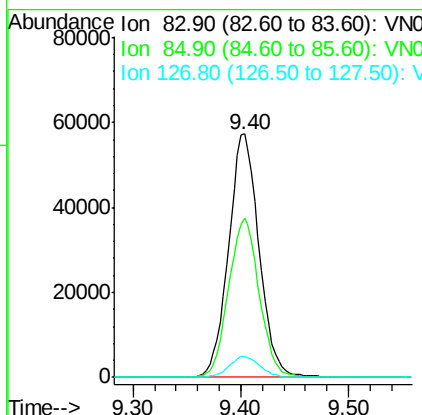
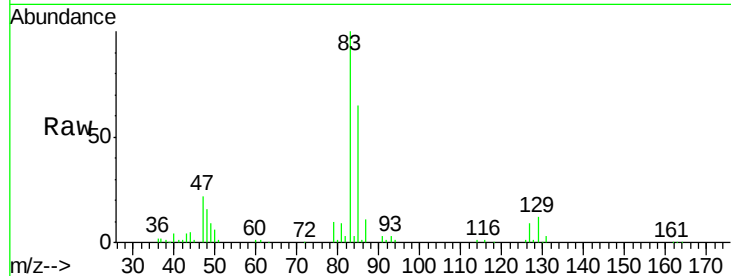
#47
Bromodichloromethane
Concen: 18.979 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
VN0506MBS01

Tot Ion:	83	Resp:	112737
Ion Ratio	Lower	Upper	
83	100		
85	65.4	50.1	75.1
127	8.7	6.7	10.1

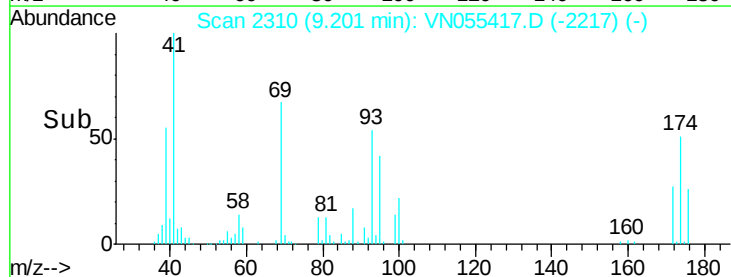
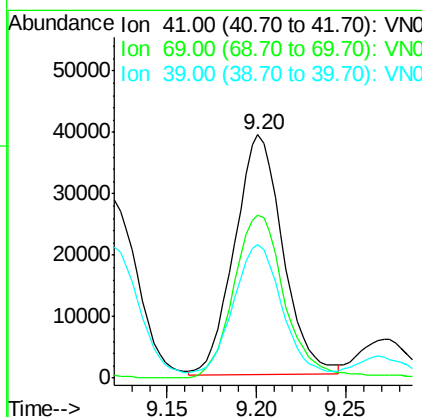
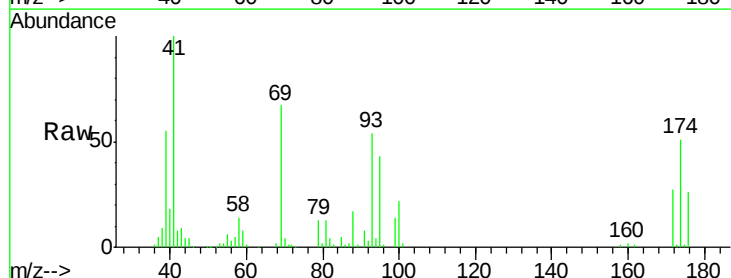
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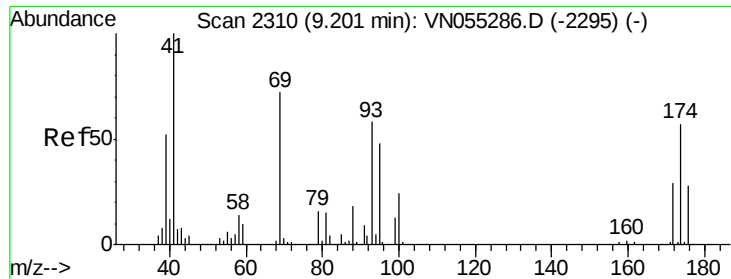
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5/7/2019 1:22:42 PM



#48
Methyl methacrylate
Concen: 20.552 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion:	41	Resp:	74139
Ion Ratio	Lower	Upper	
41	100		
69	71.7	58.6	87.8
39	55.7	43.8	65.6





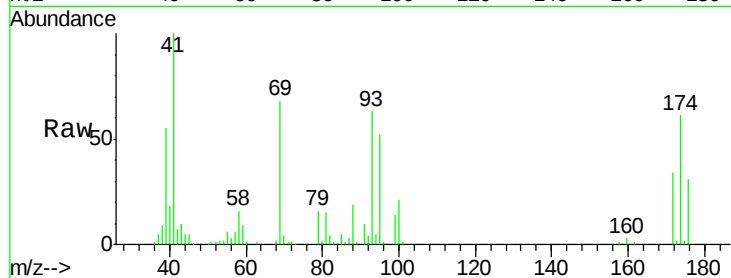
#49
1,4-Dioxane
Concen: 442.835 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
VN0506MBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	41.8	33.3	49.9
58	73.0	62.7	94.1

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5/7/2019 1:22:42 PM

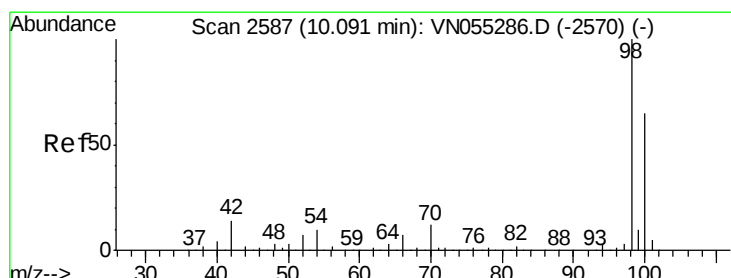
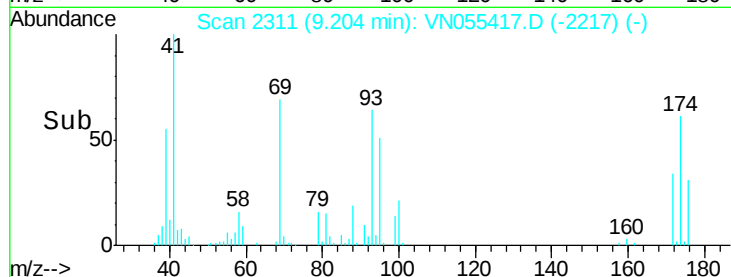
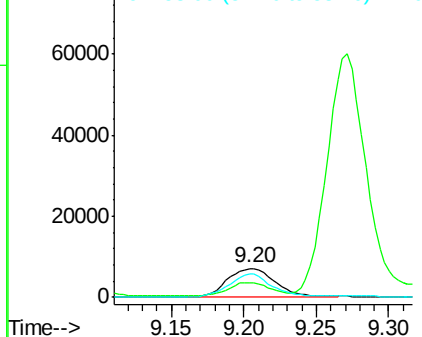


Abundance

Ion 88.00 (87.70 to 88.70): VN055417.D (-2217) (-)

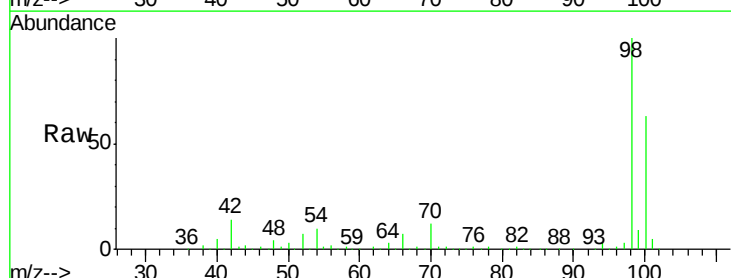
Ion 43.00 (42.70 to 43.70): VN055417.D (-2217) (-)

Ion 58.00 (57.70 to 58.70): VN055417.D (-2217) (-)



#50
Toluene-d8
Concen: 49.273 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

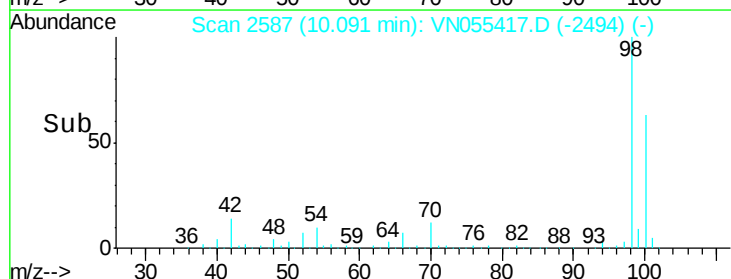
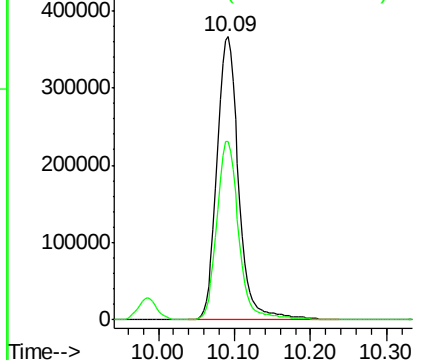
Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.6	51.7	77.5



Abundance

Ion 98.00 (97.70 to 98.70): VN055417.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN055417.D (-2494) (-)





#51

4-Methyl-2-Pentanone

Concen: 107.060 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

VN0506MBS01

Tot Ion: 43 Resp: 442317

Ion Ratio Lower Upper

43 100

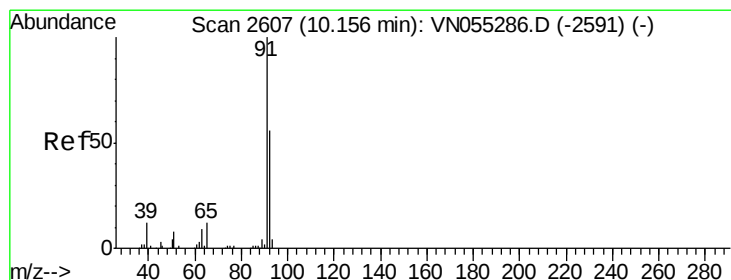
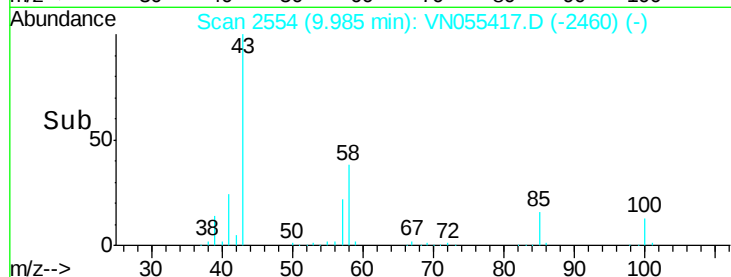
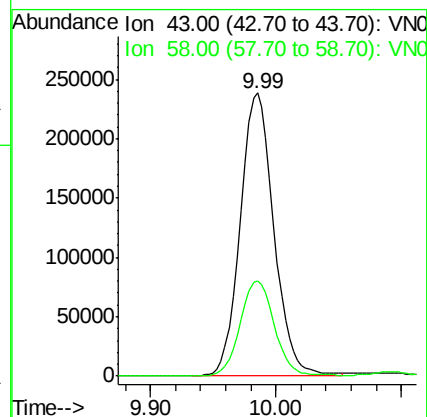
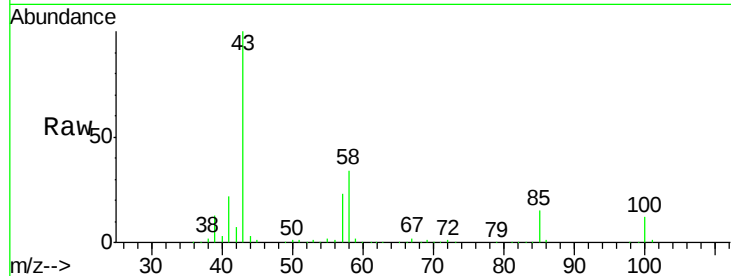
58 34.6 28.5 42.7

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#52

Toluene

Concen: 19.217 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055417.D

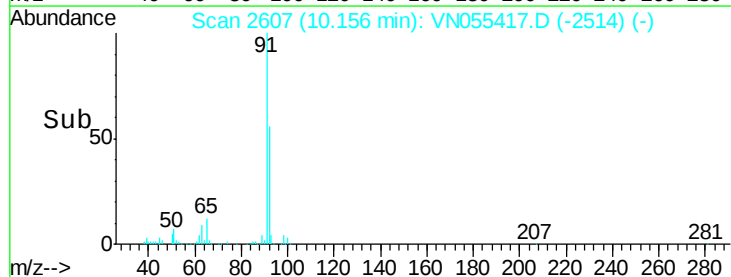
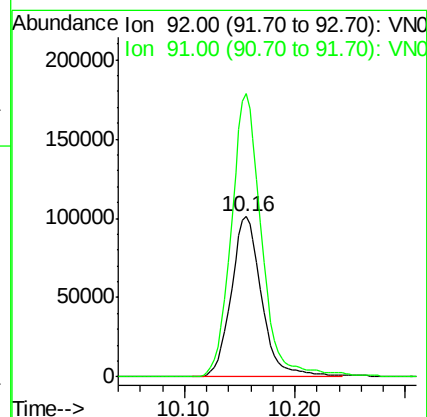
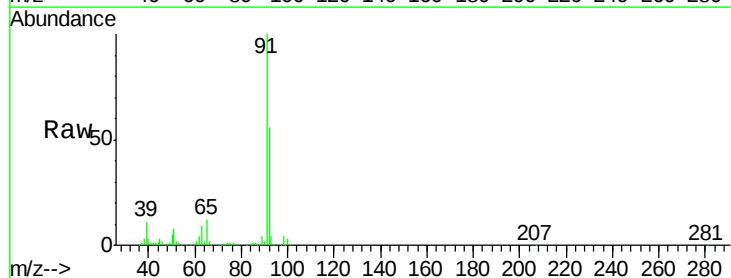
Acq: 6 May 2019 15:50

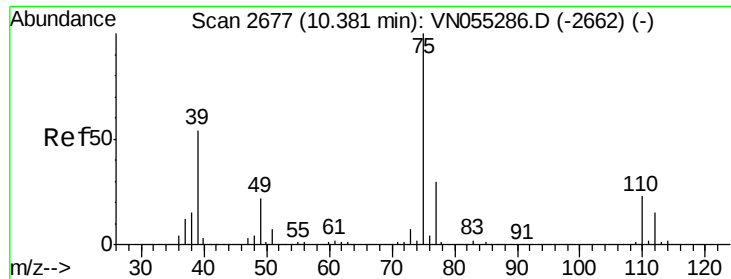
Tgt Ion: 92 Resp: 193657

Ion Ratio Lower Upper

92 100

91 176.5 140.1 210.1





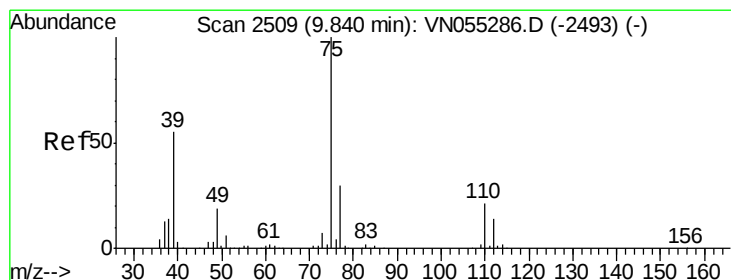
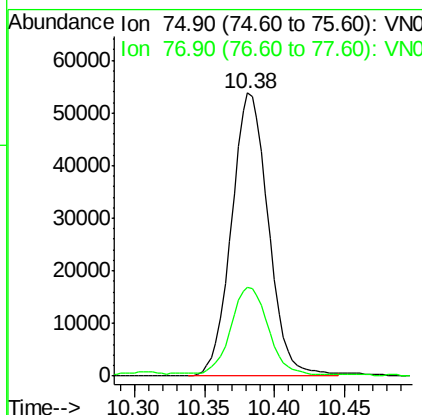
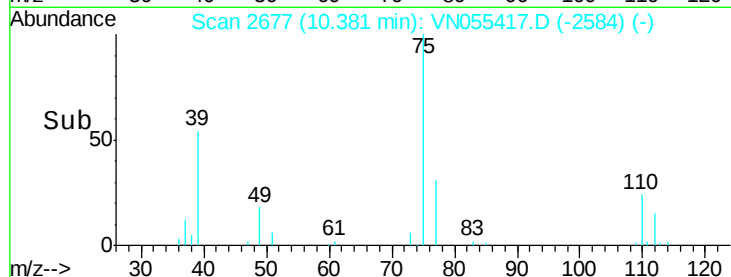
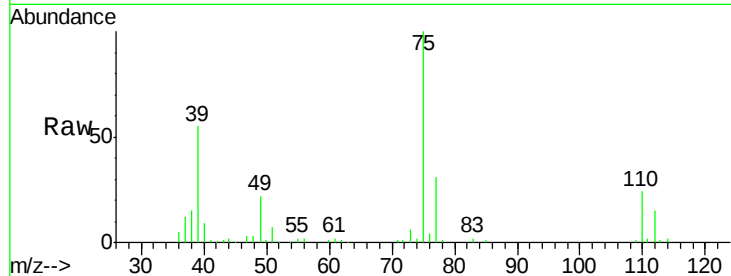
#53
 t-1,3-Dichloropropene
 Concen: 19.122 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. 0.00 min
 Lab File: VN055417.D
 Acq: 6 May 2019 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0506MBS01

Tot Ion: 75 Resp: 98602
 Ion Ratio Lower Upper
 75 100
 77 30.9 24.4 36.6

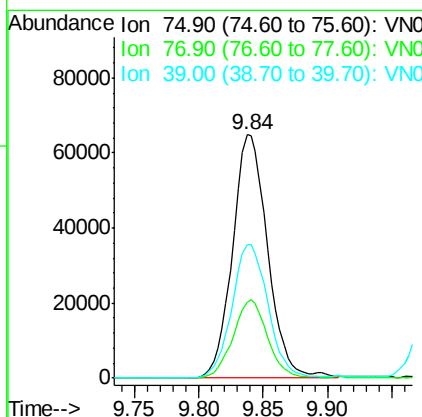
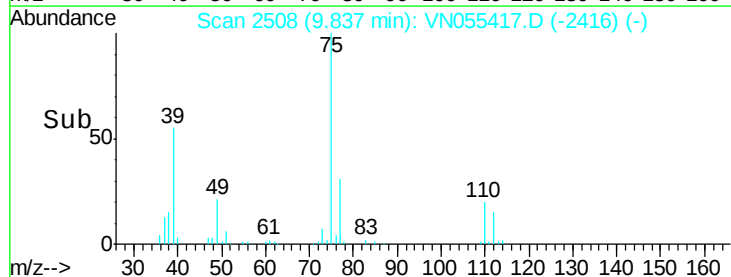
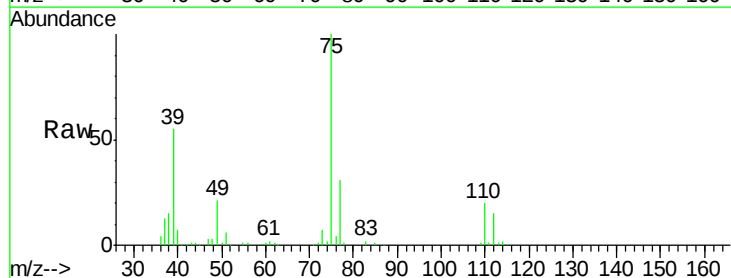
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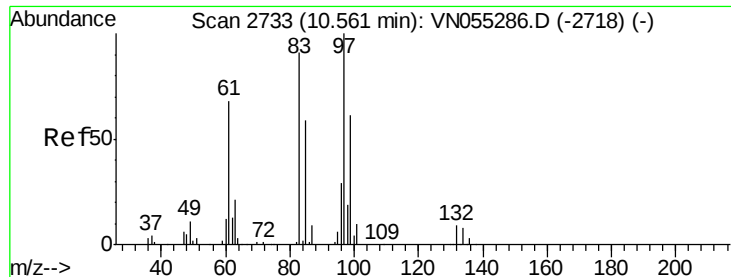
MMDadoda
 5/7/2019 1:22:42 PM



#54
 cis-1,3-Dichloropropene
 Concen: 19.117 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. -0.00 min
 Lab File: VN055417.D
 Acq: 6 May 2019 15:50

Tgt Ion: 75 Resp: 122906
 Ion Ratio Lower Upper
 75 100
 77 31.0 24.2 36.2
 39 54.6 44.2 66.2





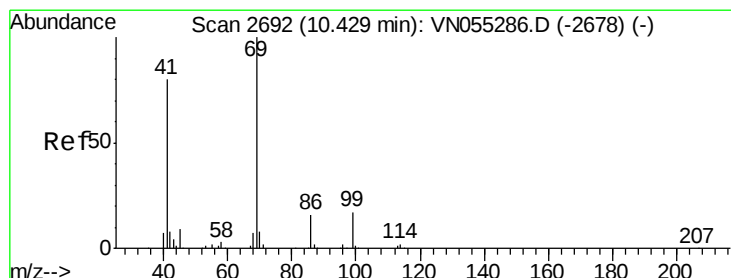
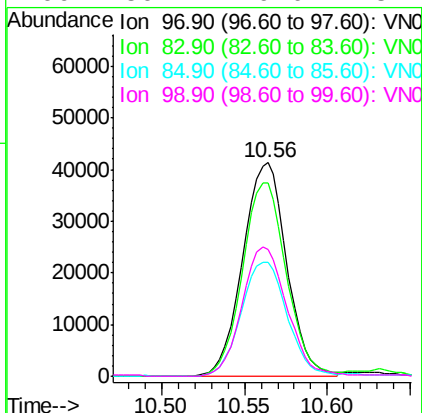
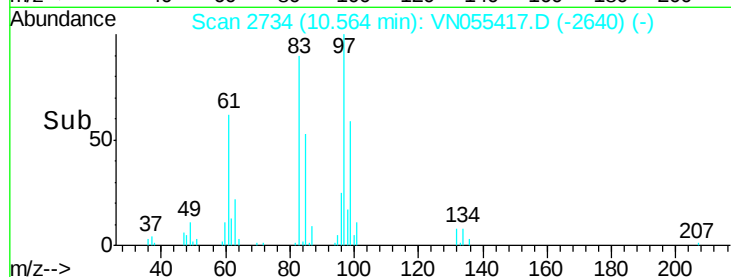
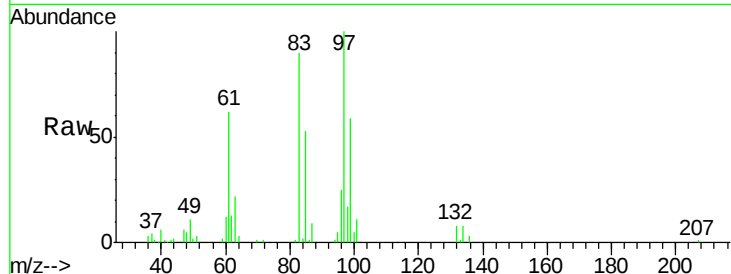
#55
 1,1,2-Trichloroethane
 Concen: 20.330 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN055417.D
 Acq: 6 May 2019 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0506MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		76076		
83	90.2	72.8	109.2		
85	53.3	47.0	70.6		
99	59.1	49.0	73.4		

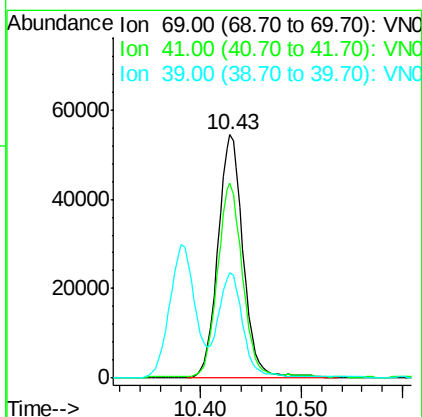
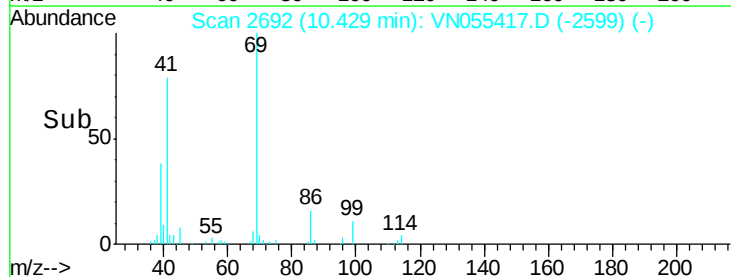
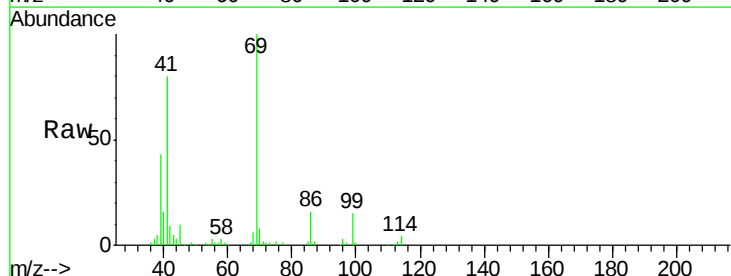
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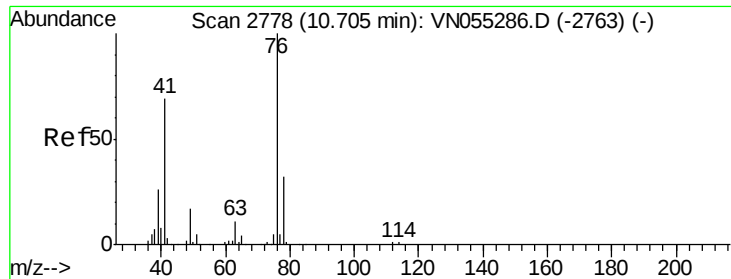
MMDadoda
 5/7/2019 1:22:42 PM



#56
 Ethyl methacrylate
 Concen: 20.702 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055417.D
 Acq: 6 May 2019 15:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		95352		
41	77.6	62.7	94.1		
39	41.1	32.0	48.0		





#57

1,3-Dichloropropane

Concen: 20.281 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

VN0506MBS01

Tot Ion: 76 Resp: 133141

Ion Ratio Lower Upper

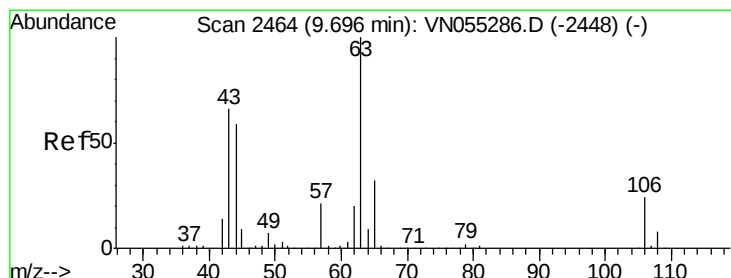
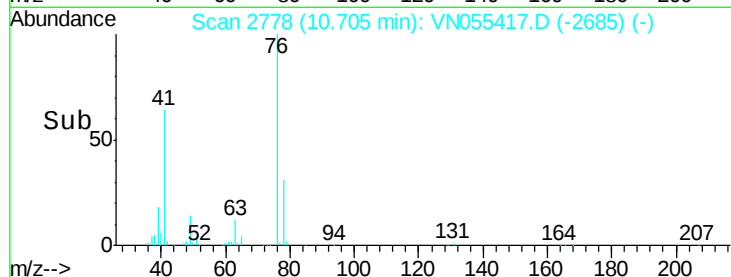
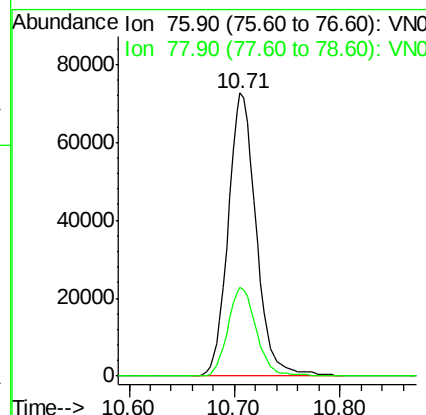
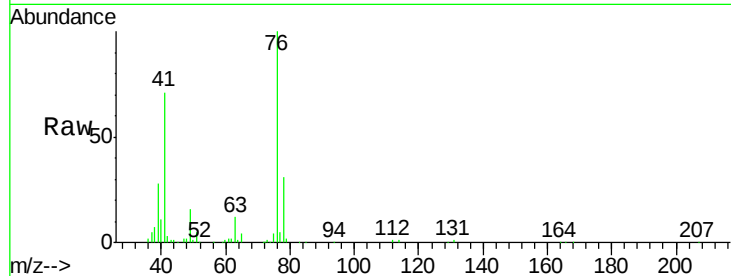
76 100

78 31.8 25.6 38.4

Manual Integrations
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#58

2-Chloroethyl Vinyl ether

Concen: 80.284 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN055417.D

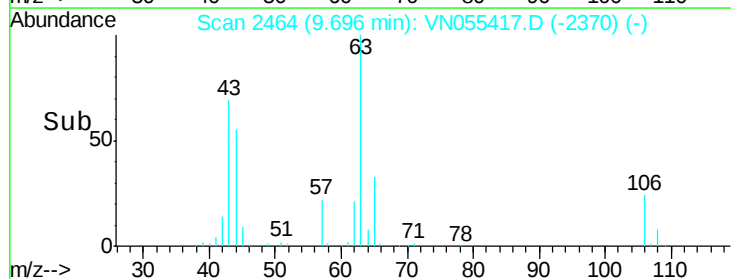
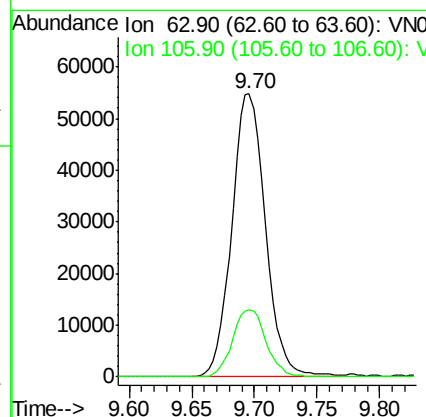
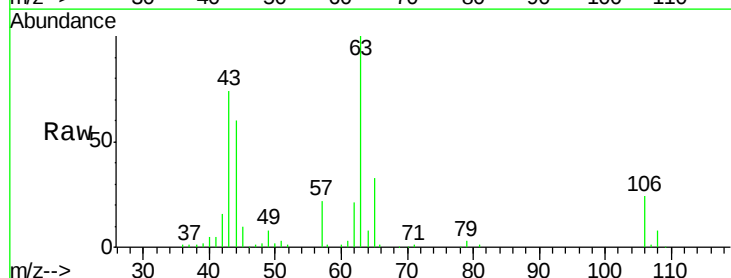
Acq: 6 May 2019 15:50

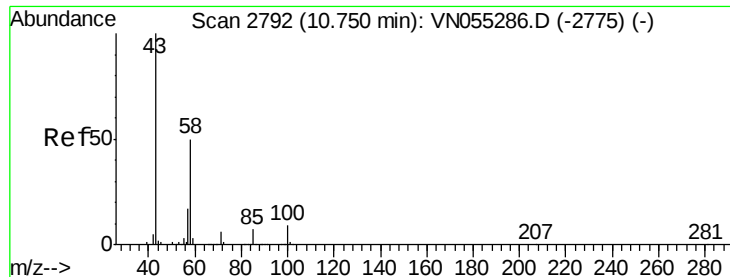
Tgt Ion: 63 Resp: 102096

Ion Ratio Lower Upper

63 100

106 23.6 19.0 28.4





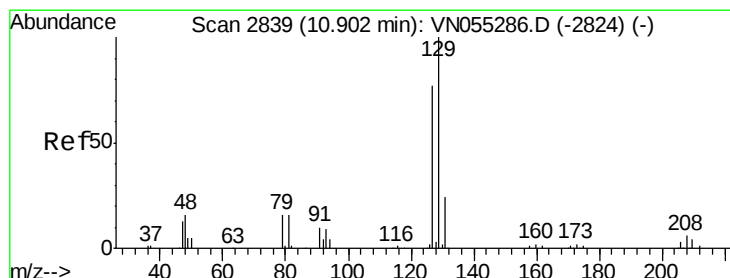
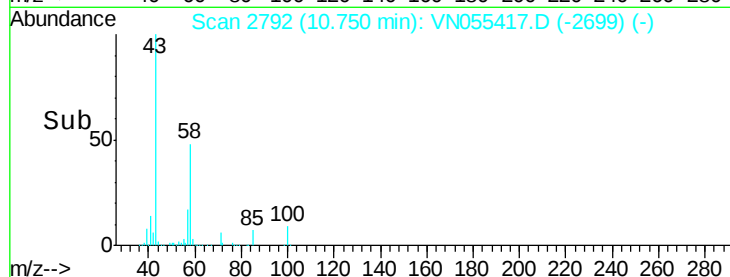
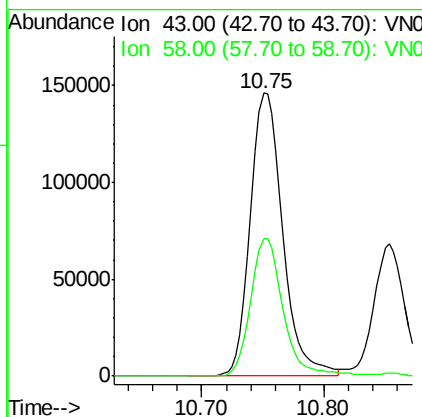
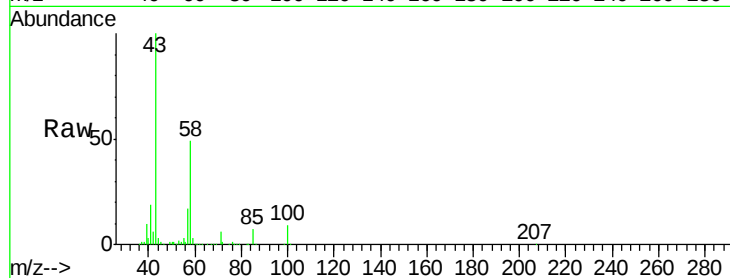
#59
2-Hexanone
Concen: 103.472 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
VN0506MBS01

Tot Ion: 43 Resp: 267477
Ion Ratio Lower Upper
43 100
58 48.6 24.9 74.6

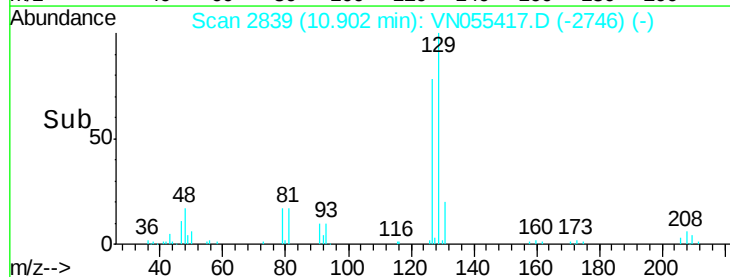
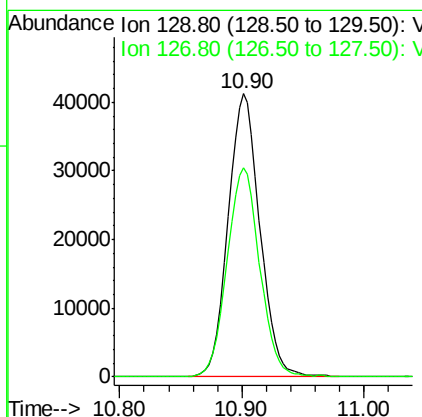
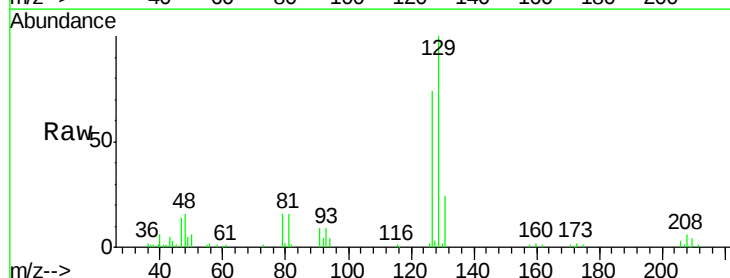
Manual Integrations
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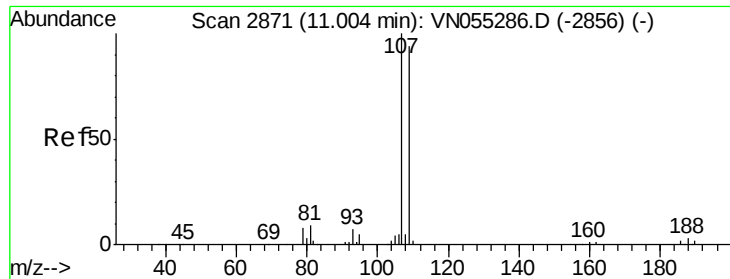
MMDadoda
5/7/2019 1:22:42 PM



#60
Dibromochloromethane
Concen: 19.564 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion: 129 Resp: 74824
Ion Ratio Lower Upper
129 100
127 75.9 38.1 114.5





#61

1,2-Dibromoethane

Concen: 19.946 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

VN0506MBS01

Tot Ion:107 Resp: 68989

Ion Ratio Lower Upper

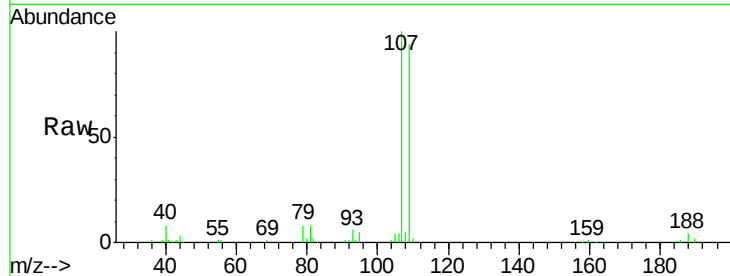
107 100

109 92.7 75.0 112.6

Manual Integrations
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MMDadoda

5/7/2019 1:22:42 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

40000

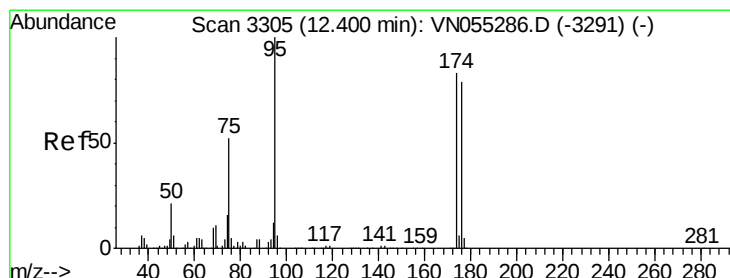
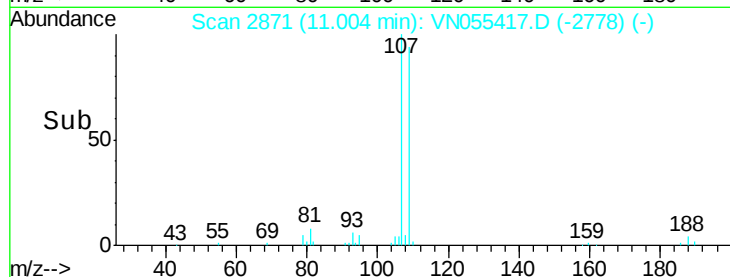
30000

20000

10000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 50.493 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

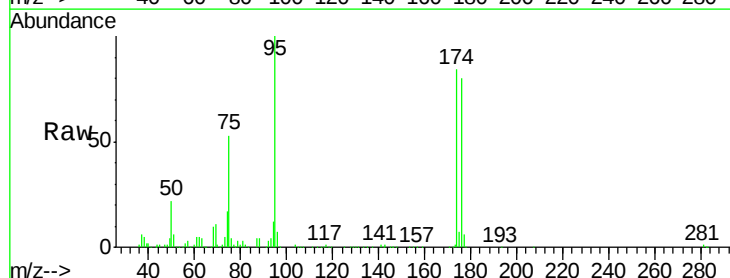
Tgt Ion: 95 Resp: 232642

Ion Ratio Lower Upper

95 100

174 83.0 0.0 166.6

176 80.0 0.0 157.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

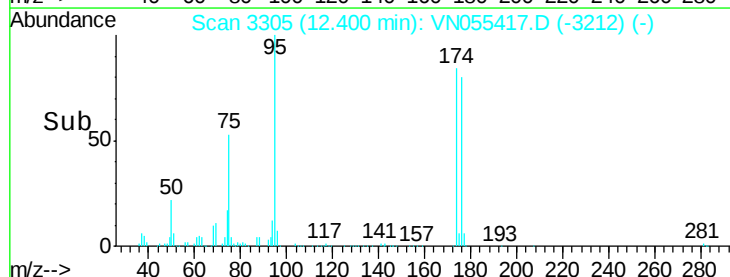
150000

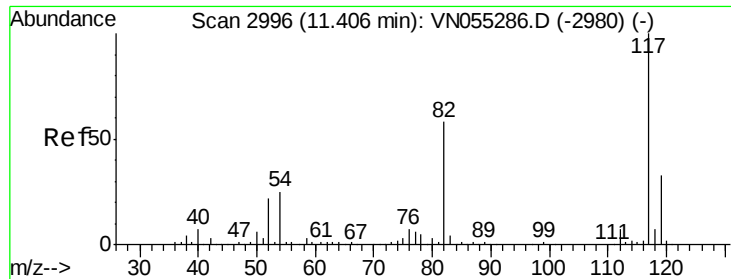
100000

50000

0

Time--> 12.30 12.40 12.50





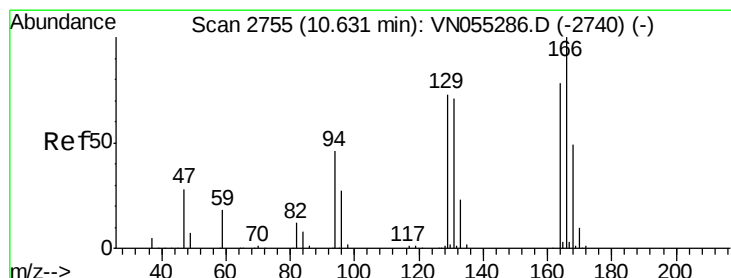
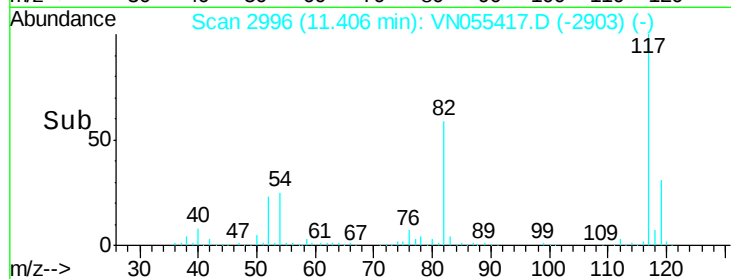
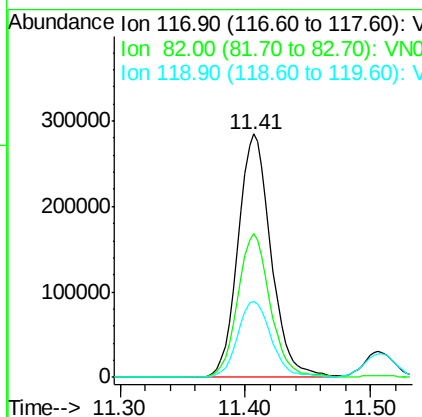
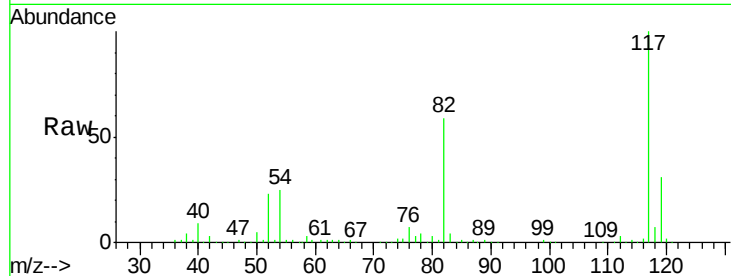
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
VN0506MBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	521522		
82	58.9	46.2	69.4	
119	31.4	26.6	40.0	

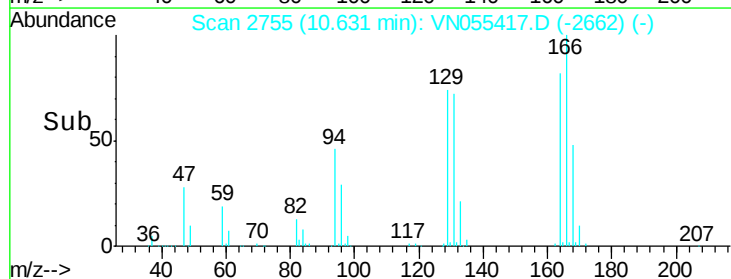
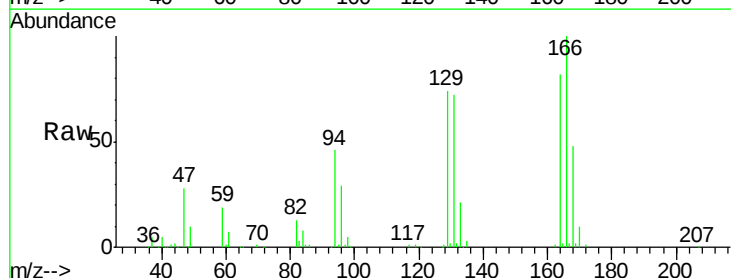
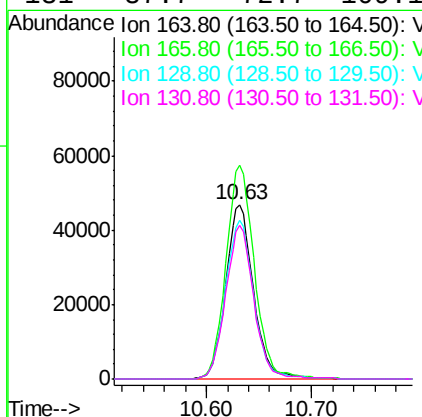
Manual Integrations
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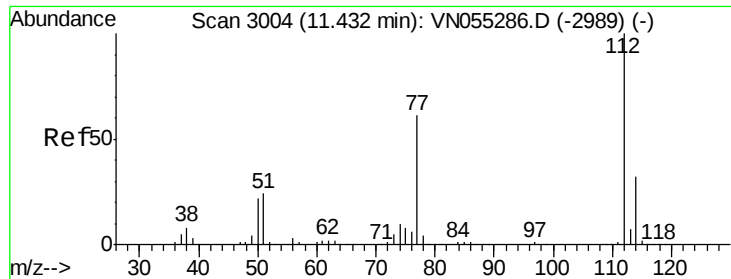
MMDadoda
5/7/2019 1:22:42 PM



#64
Tetrachloroethene
Concen: 19.873 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	84758		
166	122.4	102.3	153.5	
129	90.9	75.0	112.6	
131	87.7	72.7	109.1	





#65

Chlorobenzene

Concen: 19.127 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

ClientSampled :

VN0506MBS01

Tot Ion:112 Resp: 195027

Ion Ratio Lower Upper

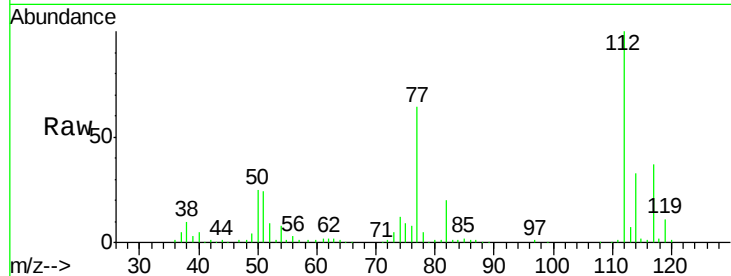
112 100

114 32.7 25.3 37.9

Manual Integrations
APPROVED

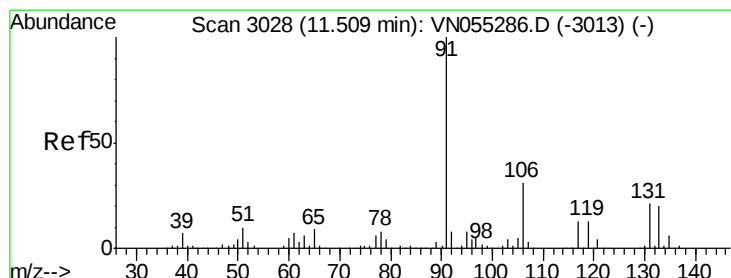
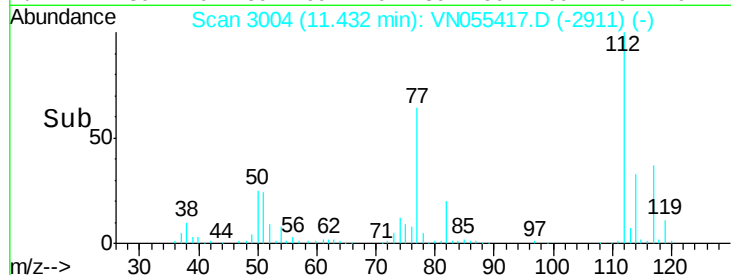
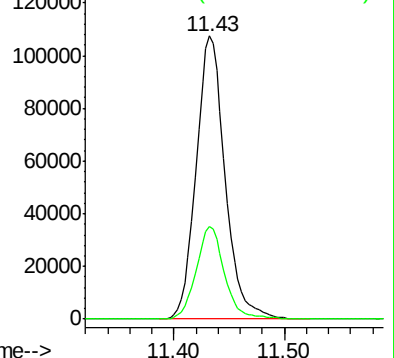
MMDadoda

5/7/2019 1:22:42 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 18.584 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

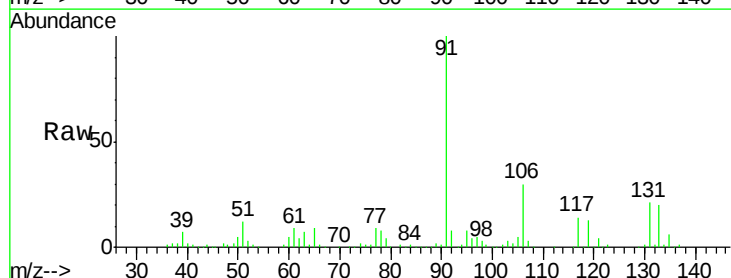
Tgt Ion:131 Resp: 74197

Ion Ratio Lower Upper

131 100

133 98.4 47.5 142.6

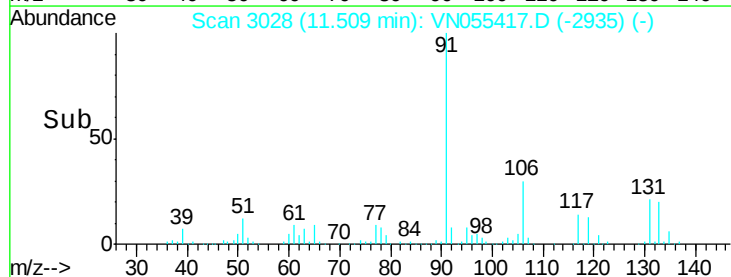
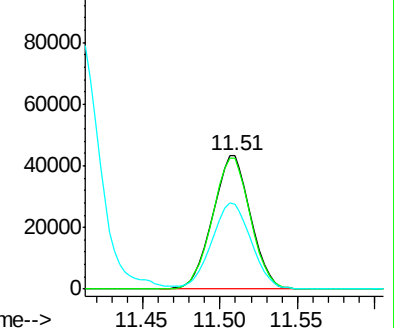
119 67.5 32.7 98.1



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





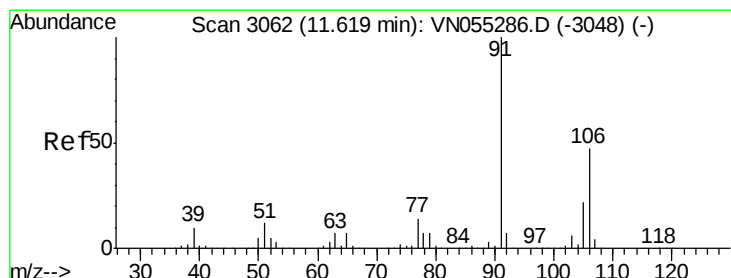
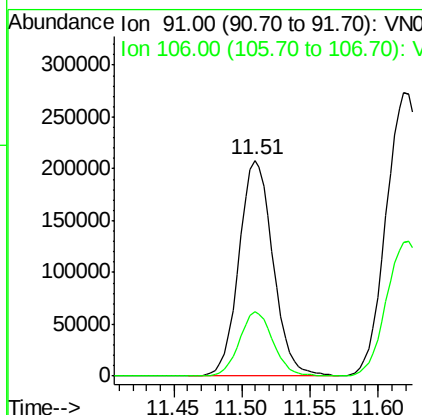
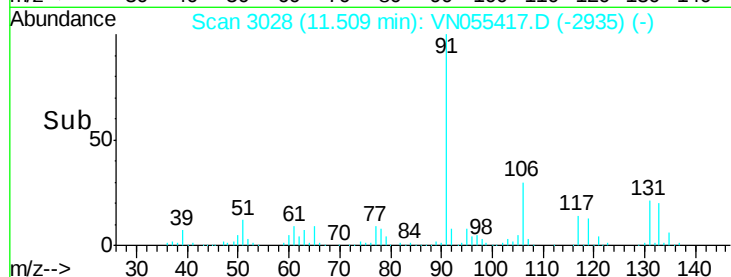
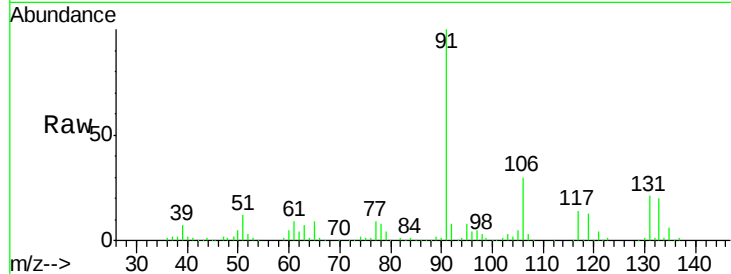
#67
Ethyl Benzene
Concen: 19.625 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
VN0506MBS01

Tot Ion: 91 Resp: 361358
Ion Ratio Lower Upper
91 100
106 29.7 24.6 36.8

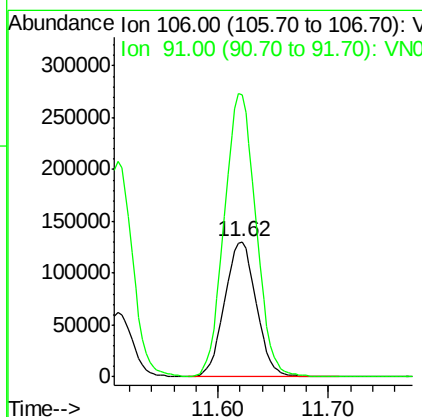
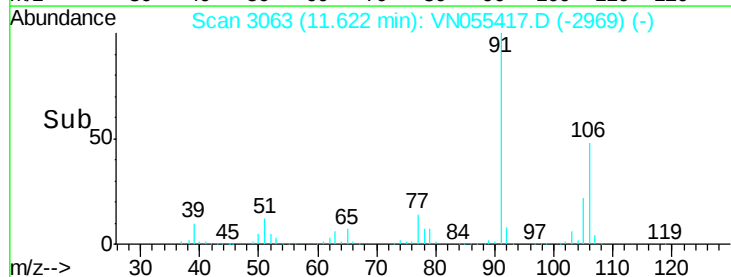
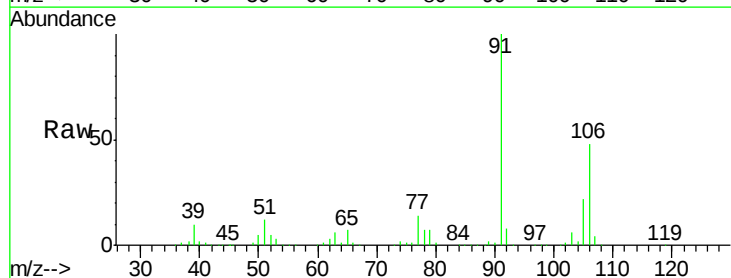
Manual Integrations
APPROVED

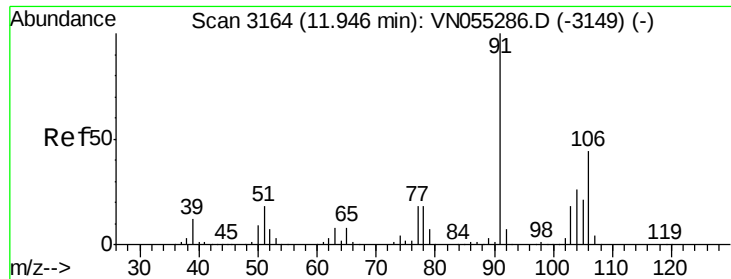
MMDadoda
5/7/2019 1:22:42 PM



#68
m/p-Xylenes
Concen: 39.593 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion: 106 Resp: 260216
Ion Ratio Lower Upper
106 100
91 208.4 169.5 254.3





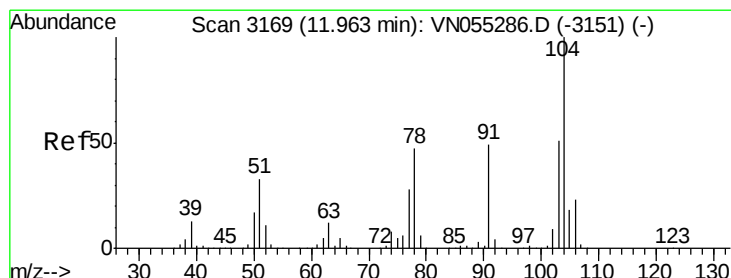
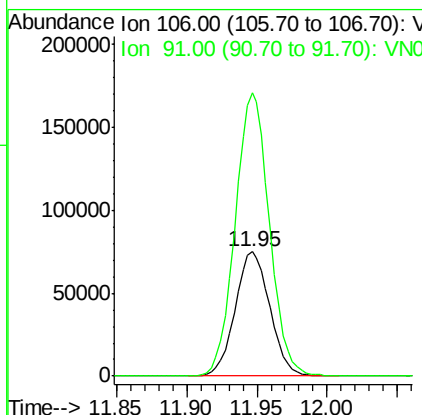
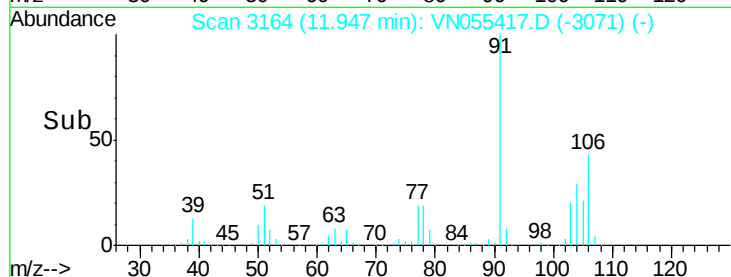
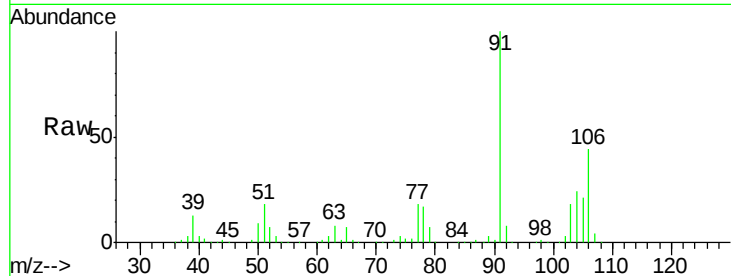
#69
o-Xylene
Concen: 19.810 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
VN0506MBS01

Tot Ion:106 Resp: 129044
Ion Ratio Lower Upper
106 100
91 224.2 111.5 334.5

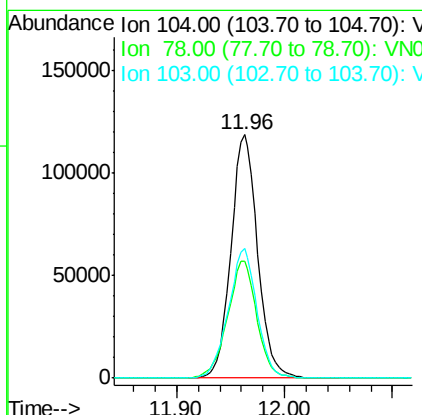
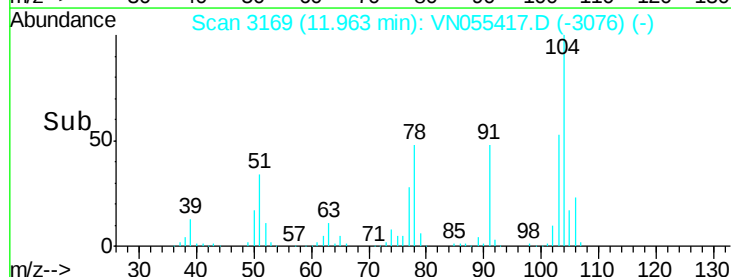
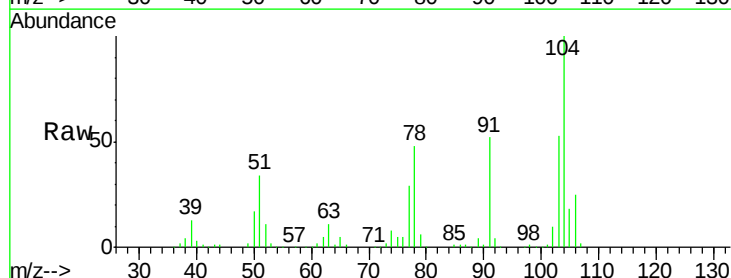
Manual Integrations
APPROVED

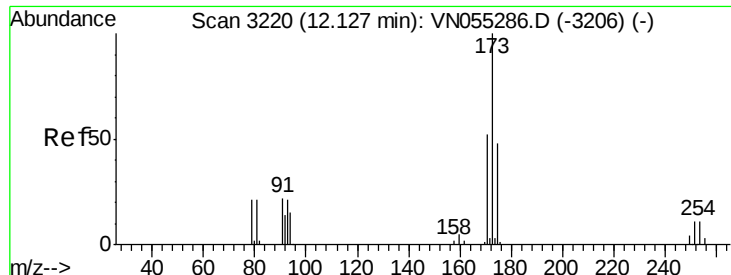
MMDadoda
5/7/2019 1:22:42 PM



#70
Styrene
Concen: 20.531 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion:104 Resp: 205354
Ion Ratio Lower Upper
104 100
78 52.4 42.2 63.2
103 57.0 44.6 67.0





#71

Bromoform

Concen: 19.313 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

VN0506MBS01

Tot Ion:173 Resp: 42786

Ion Ratio Lower Upper

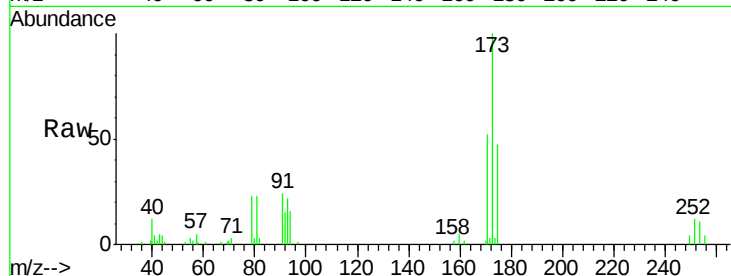
173 100

175 48.5 23.6 71.0

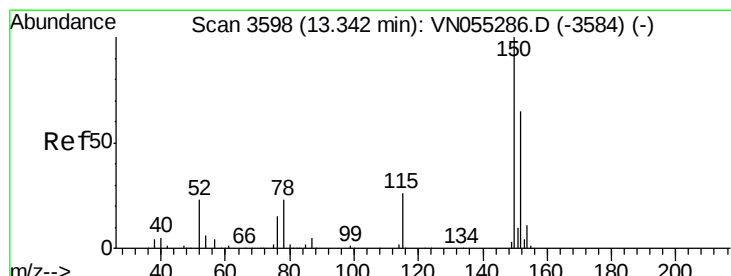
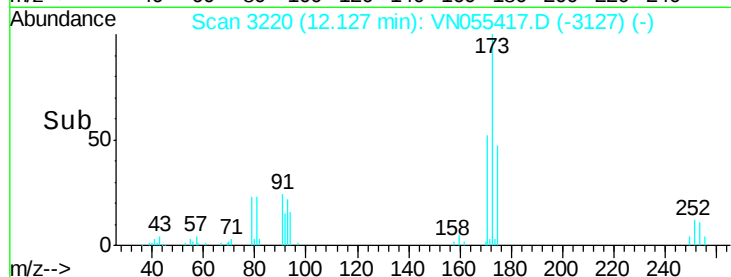
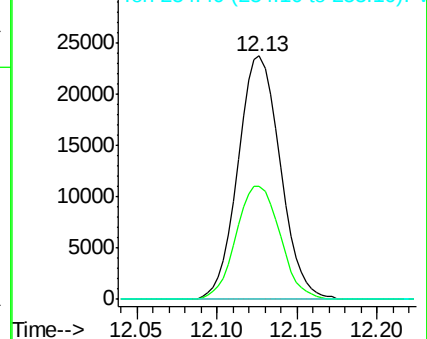
254 0.0 0.0 0.0

Manual Integrations
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5/7/2019 1:22:42 PM



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

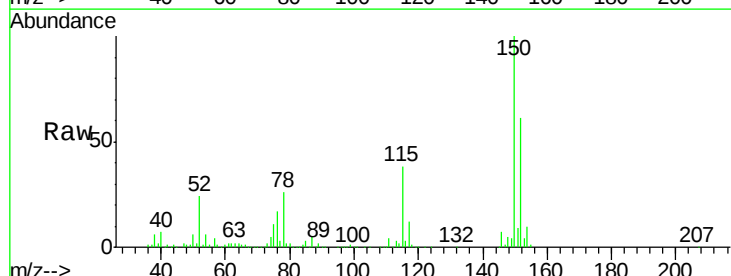
Tgt Ion:152 Resp: 193667

Ion Ratio Lower Upper

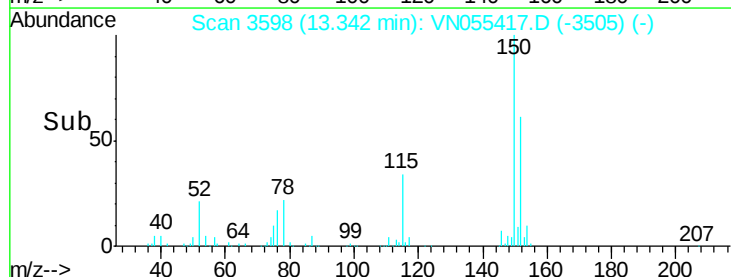
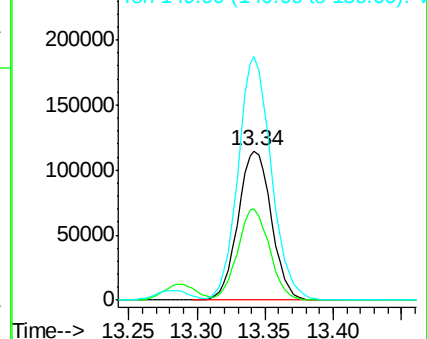
152 100

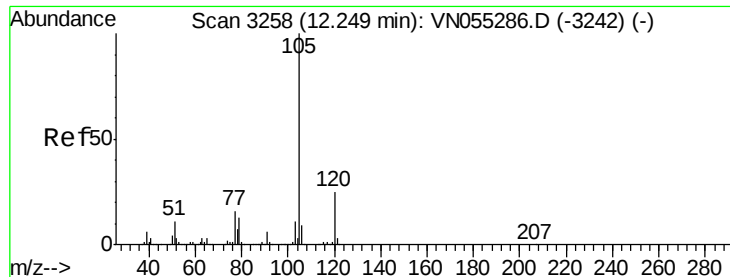
115 58.9 29.0 87.0

150 163.0 0.0 345.6



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: 21.356 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

VN0506MBS01

Tot Ion: 105 Resp: 357008

Ion Ratio Lower Upper

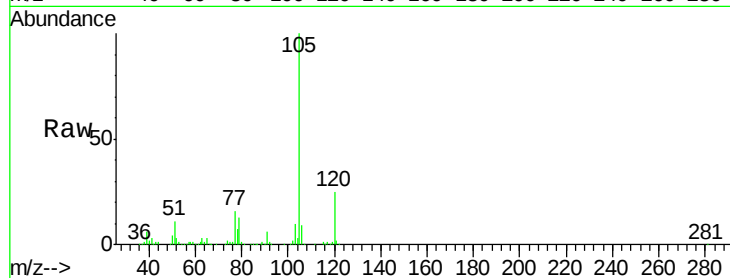
105 100

120 25.7 12.9 38.7

Manual Integrations
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5/7/2019 1:22:42 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

250000

200000

150000

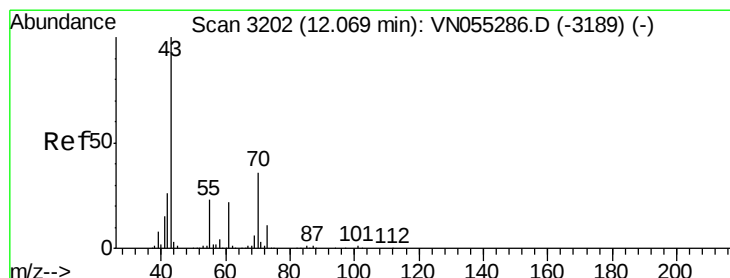
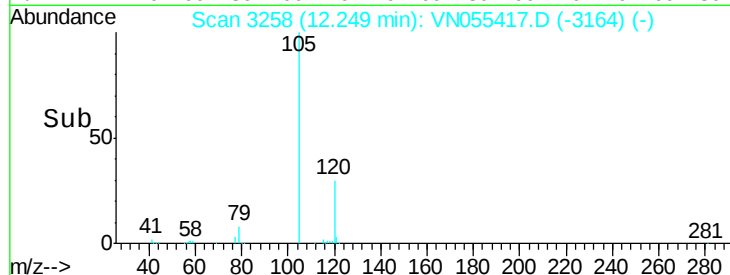
100000

50000

0

12.15 12.20 12.25 12.30

Time-->



#74

N-ethyl acetate

Concen: 20.331 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Tgt Ion: 43 Resp: 101051

Ion Ratio Lower Upper

43 100

70 34.5 27.9 41.9

55 22.3 18.2 27.2

61 21.0 16.9 25.3

Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

80000

60000

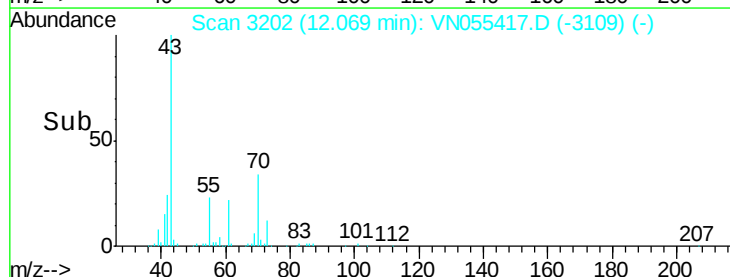
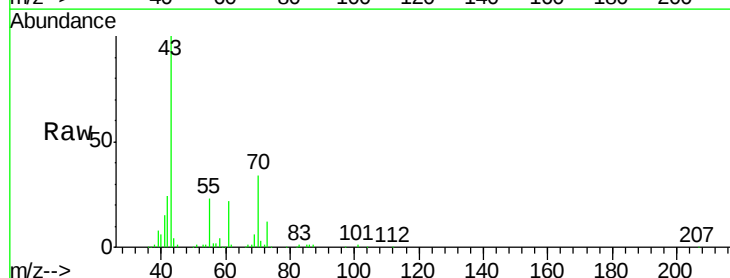
40000

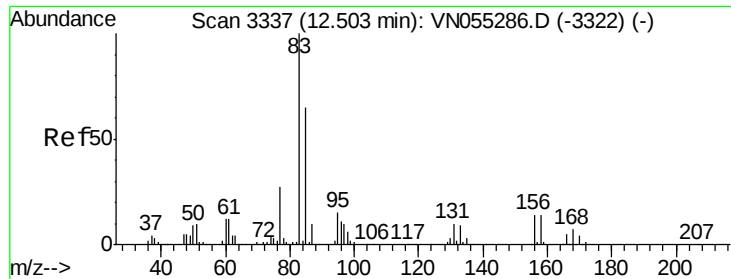
20000

0

12.00 12.10

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 21.822 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

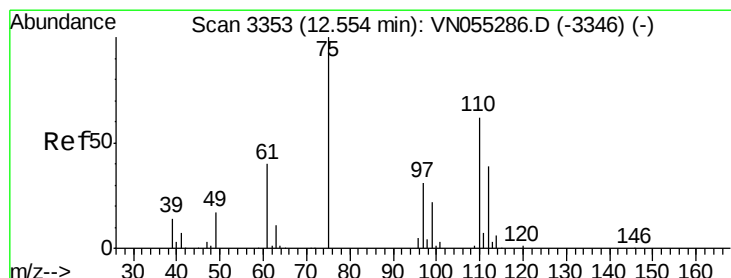
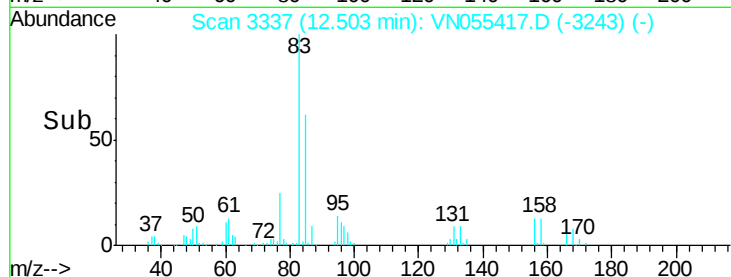
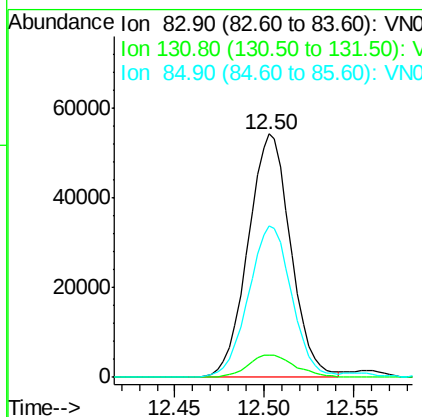
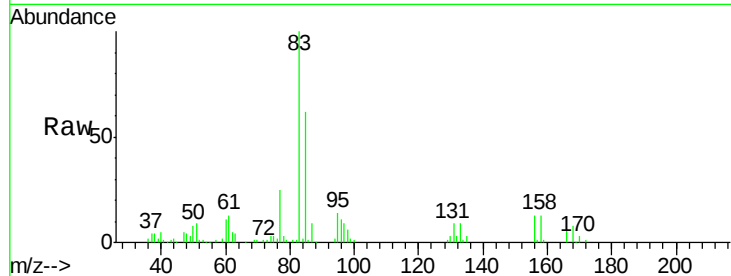
ClientSampleId :

VN0506MBS01

Tot Ion:	83	Resp:	90611
Ion Ratio	Lower	Upper	
83	100		
131	10.0	5.1	15.2
85	62.9	32.3	96.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.851 ug/l m

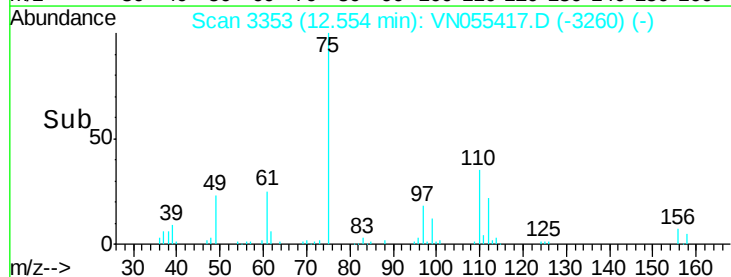
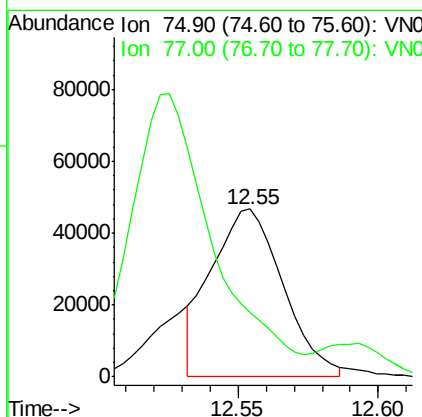
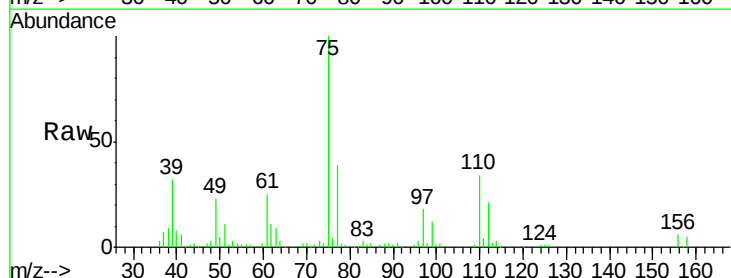
RT: 12.55 min Scan# 3353

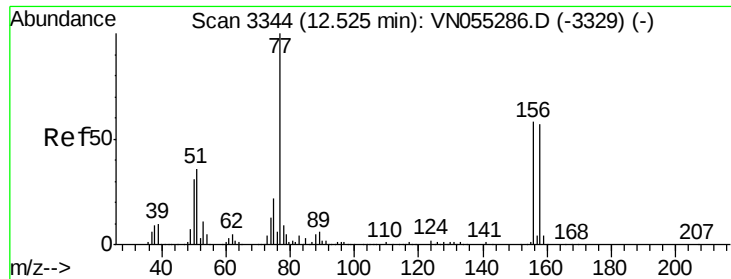
Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Tgt Ion:	75	Resp:	83761
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.178 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

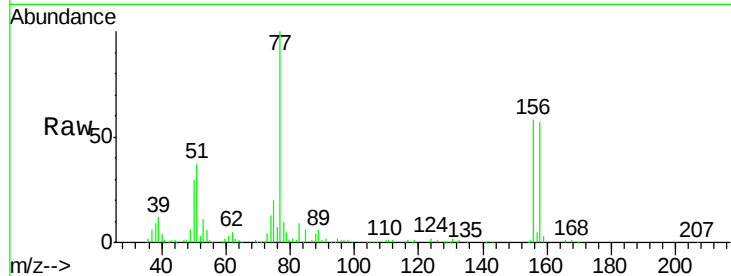
ClientSampled :

VN0506MBS01

Tot Ion:	156	Resp:	79409
Ion Ratio	Lower	Upper	
156	100		
77	203.6	99.6	298.8
158	99.0	49.3	147.8

Manual Integrations
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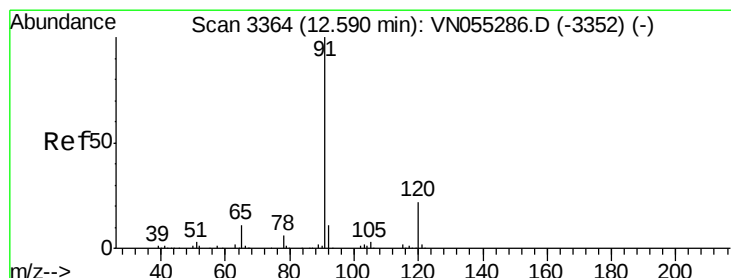
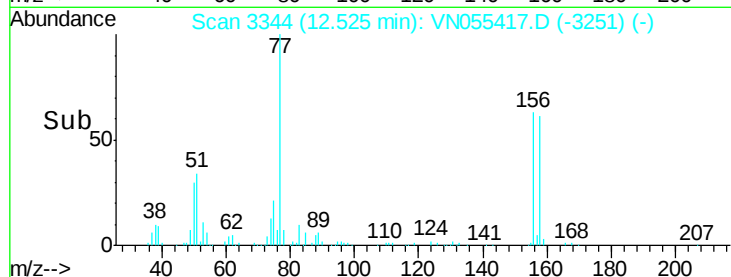
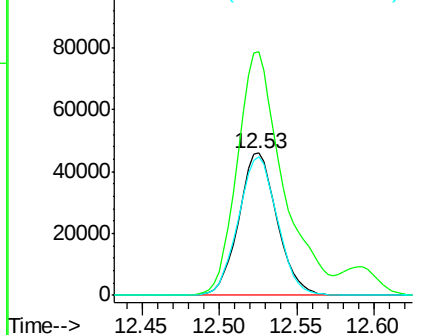
MMDadoda
5/7/2019 1:22:42 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 18.778 ug/l

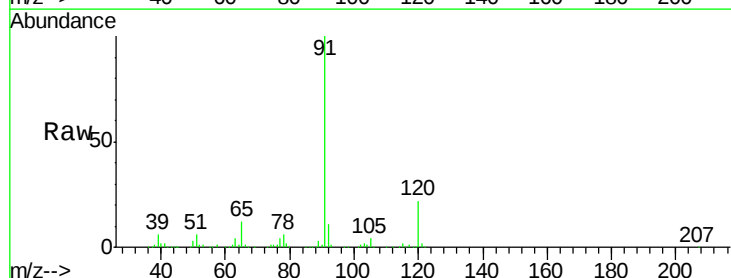
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055417.D

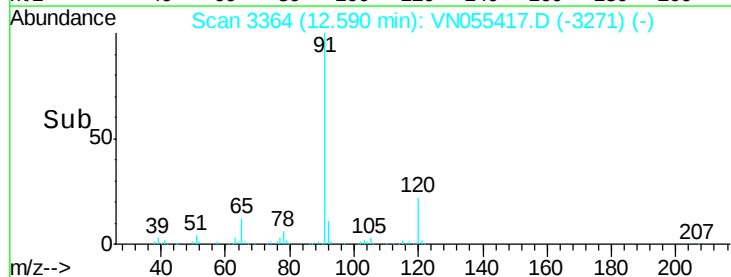
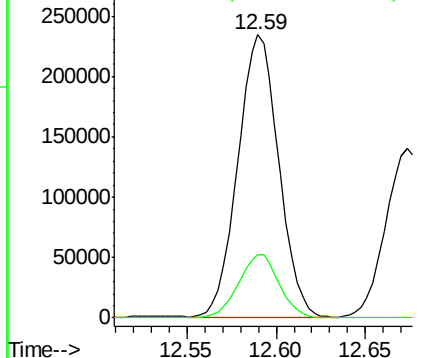
Acq: 6 May 2019 15:50

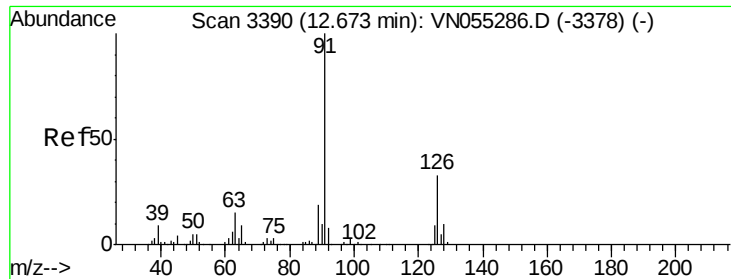
Tgt Ion:	91	Resp:	373565
Ion Ratio	Lower	Upper	
91	100		
120	22.3	11.0	33.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.768 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

VN0506MBS01

Tot Ion: 91 Resp: 234312

Ion Ratio Lower Upper

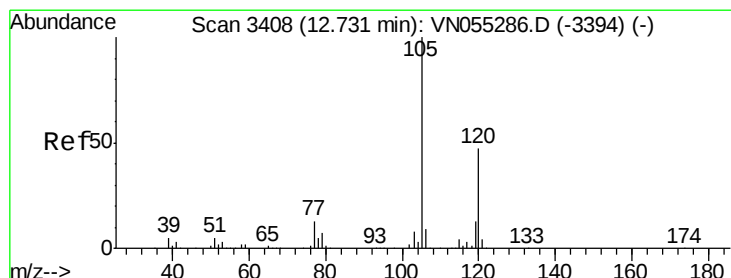
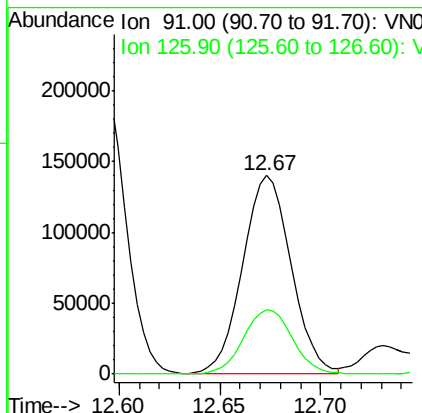
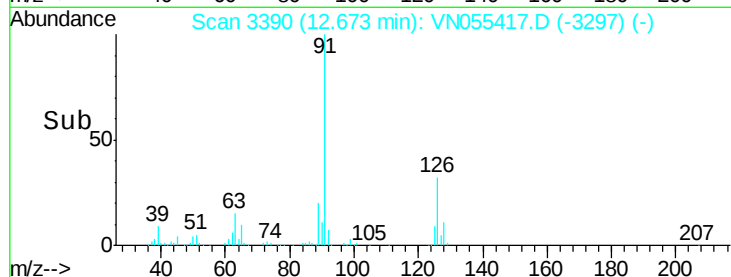
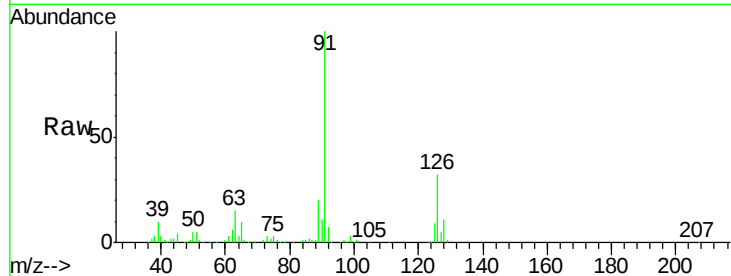
91 100

126 33.3 16.6 49.7

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 19.045 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055417.D

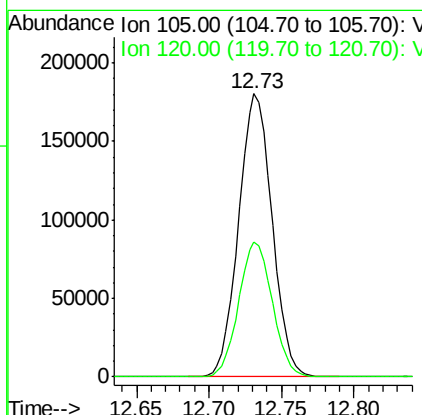
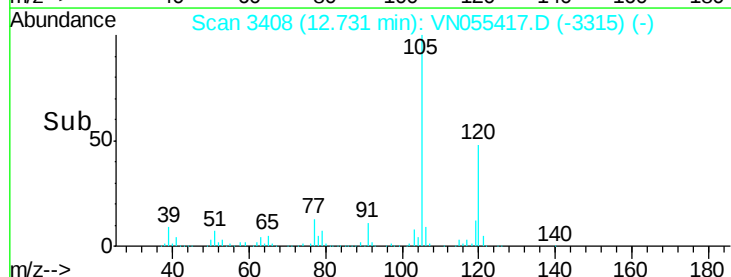
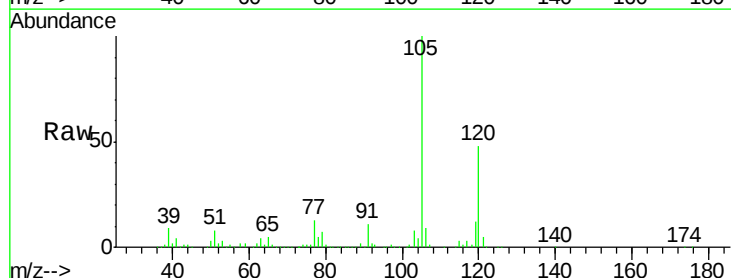
Acq: 6 May 2019 15:50

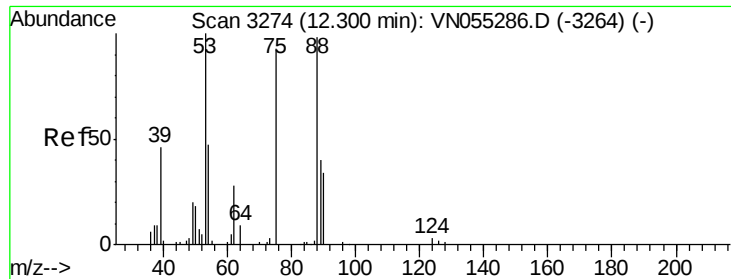
Tgt Ion: 105 Resp: 289164

Ion Ratio Lower Upper

105 100

120 48.0 23.4 70.0





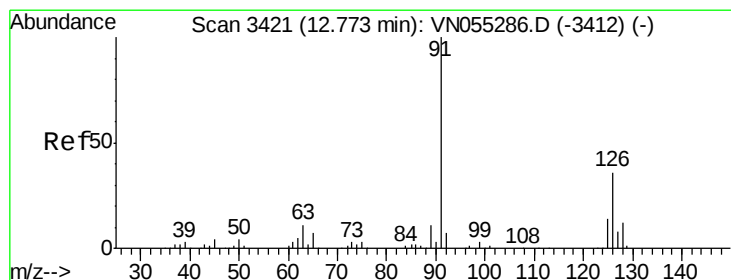
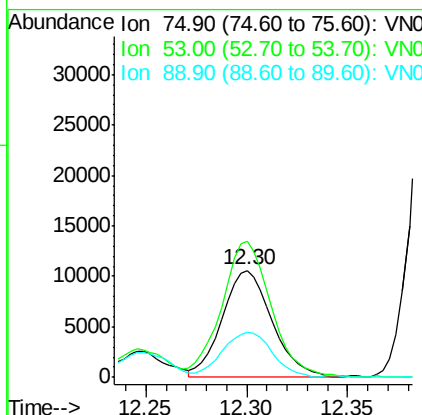
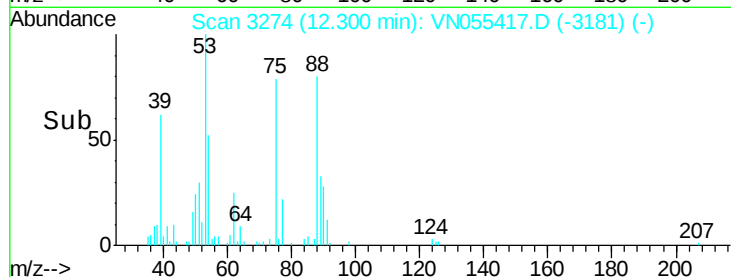
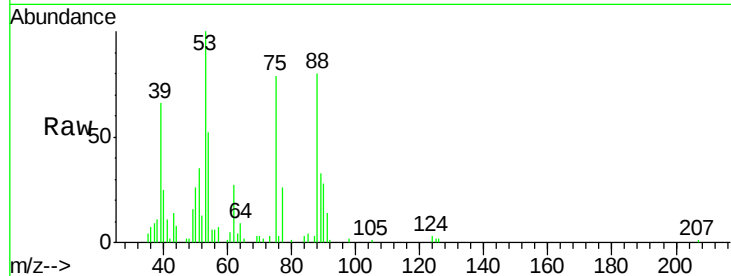
#81
trans-1,4-Dichloro-2-butene
Concen: 17.950 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
VN0506MBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	126.4	86.3	129.5
89	41.8	34.6	51.8

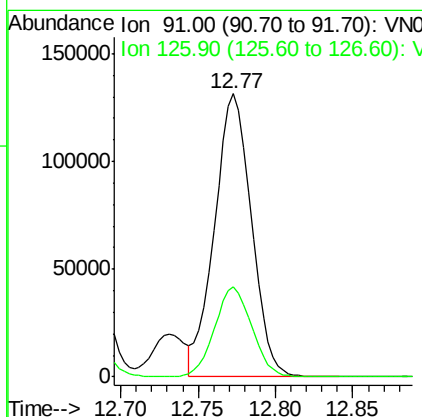
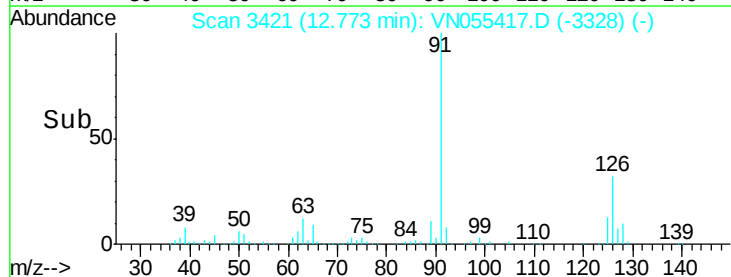
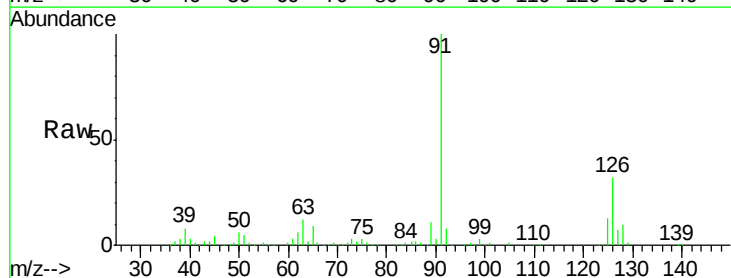
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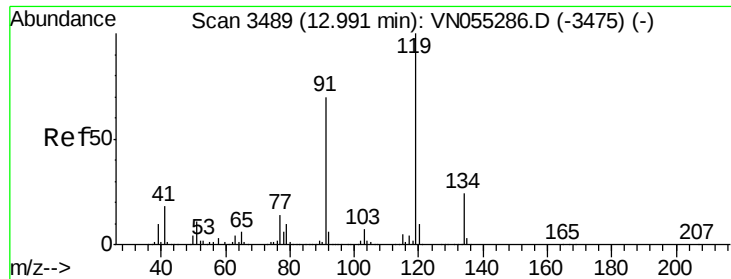
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#82
4-Chlorotoluene
Concen: 18.757 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.2	16.6	49.7





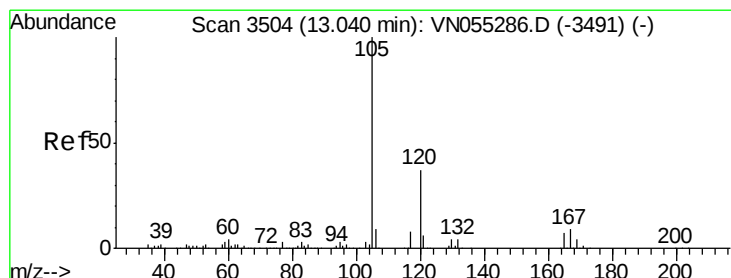
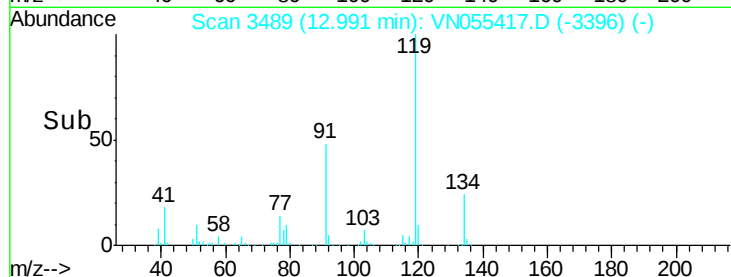
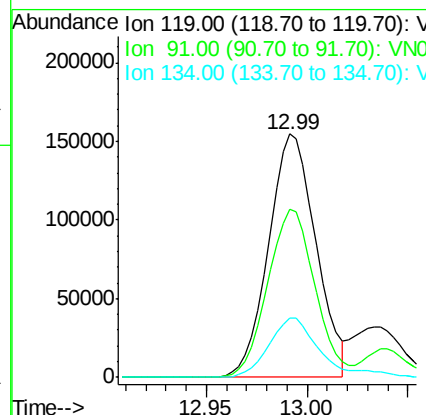
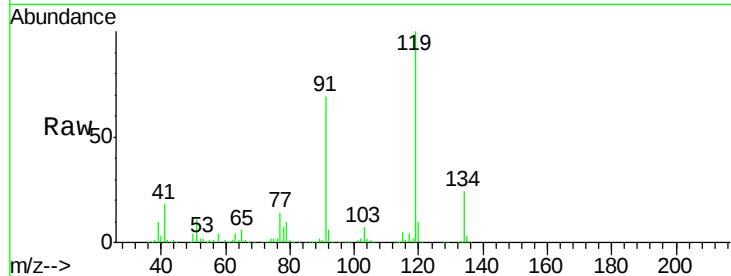
#83
tert-Butylbenzene
Concen: 21.799 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
VN0506MBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.9	34.3	102.9
134	26.4	13.1	39.3

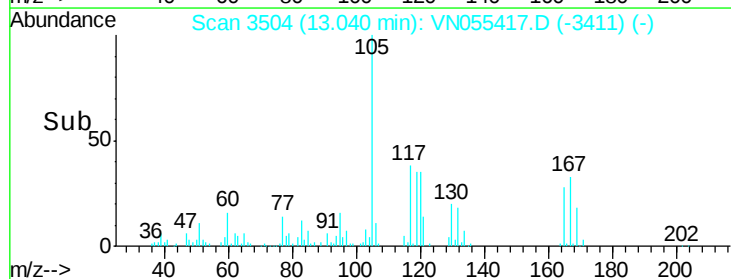
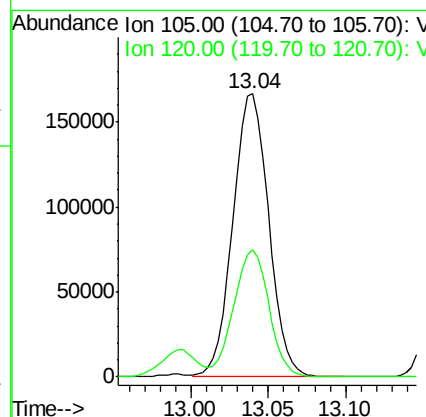
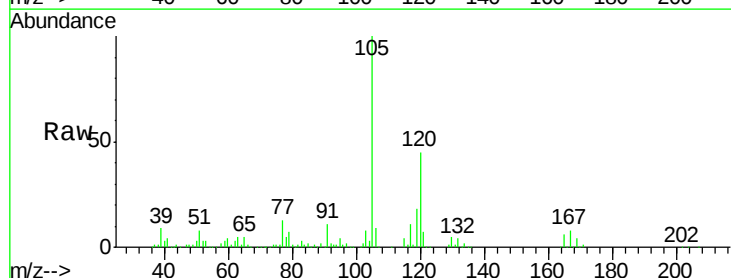
Manual Integrations
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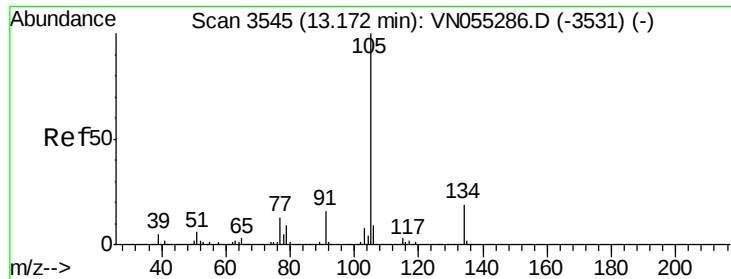
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 19.731 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.1	66.5





#85

sec-Butylbenzene

Concen: 19.842 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

VN0506MBS01

Tot Ion:105 Resp: 327439

Ion Ratio Lower Upper

105 100

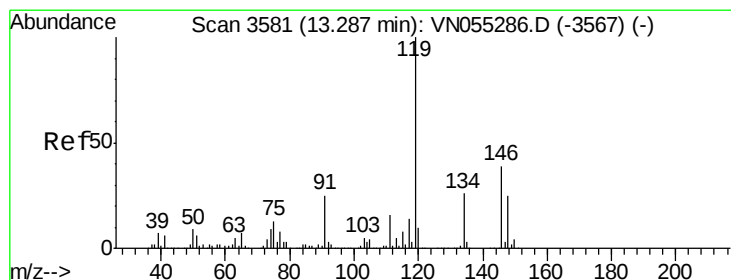
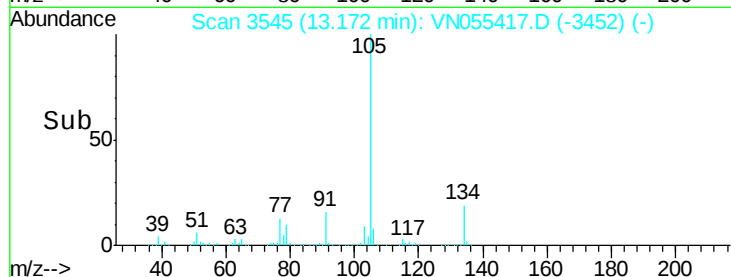
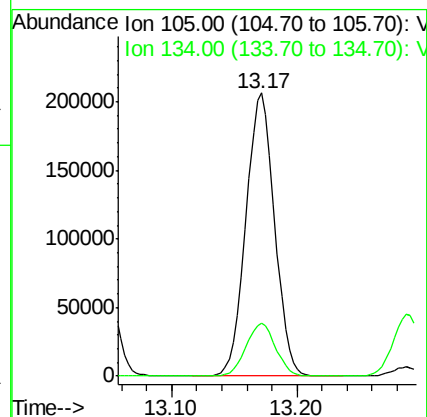
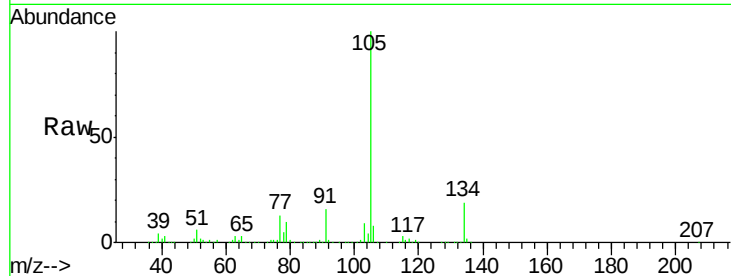
134 19.2 9.6 28.8

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 20.159 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

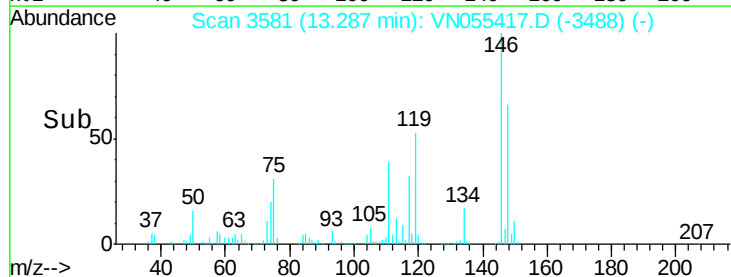
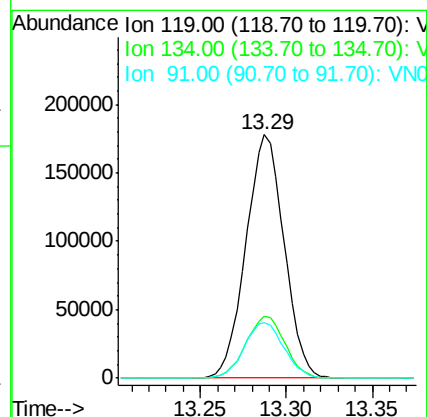
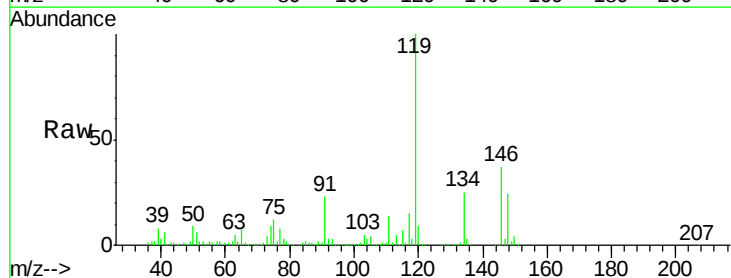
Tgt Ion:119 Resp: 273431

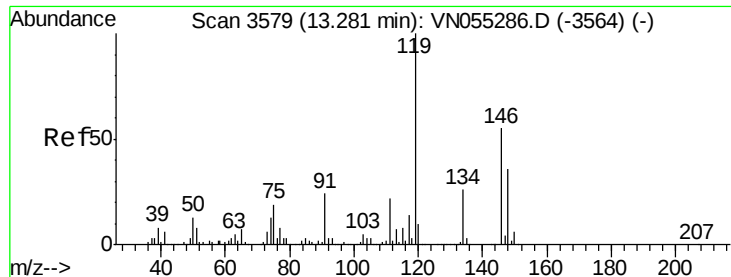
Ion Ratio Lower Upper

119 100

134 26.1 13.0 38.9

91 23.8 12.2 36.6





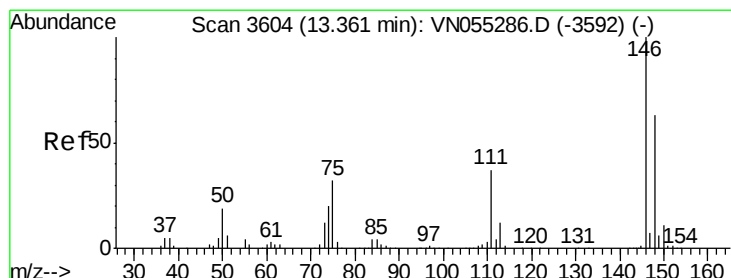
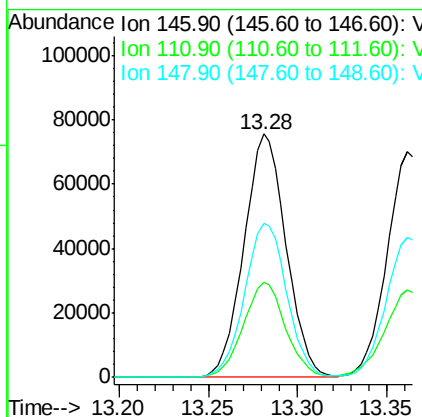
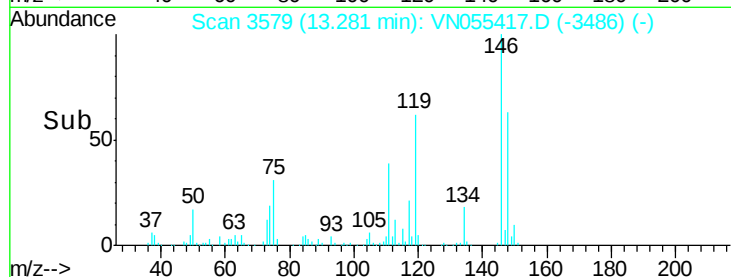
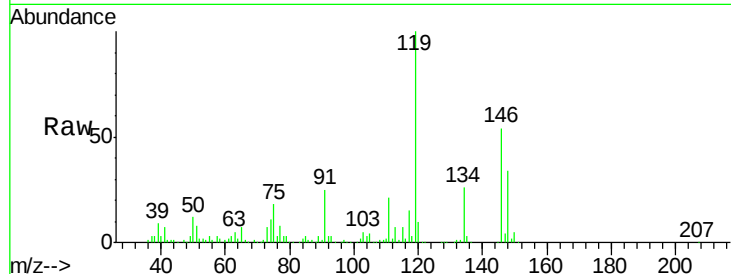
#87
 1,3-Dichlorobenzene
 Concen: 19.200 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055417.D
 Acq: 6 May 2019 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0506MBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	124429		
111	39.1	20.3	60.8	
148	63.5	32.5	97.5	

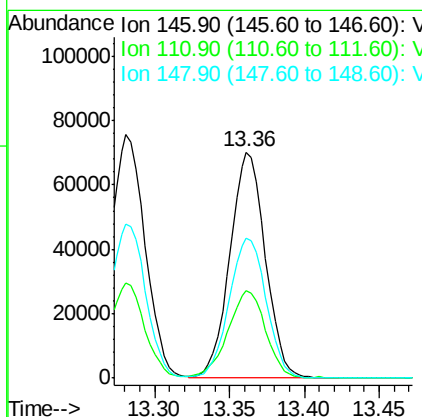
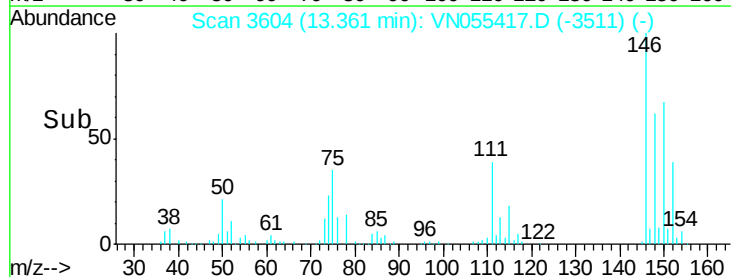
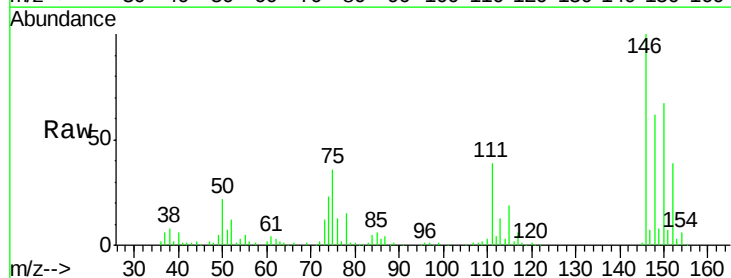
Manual Integrations
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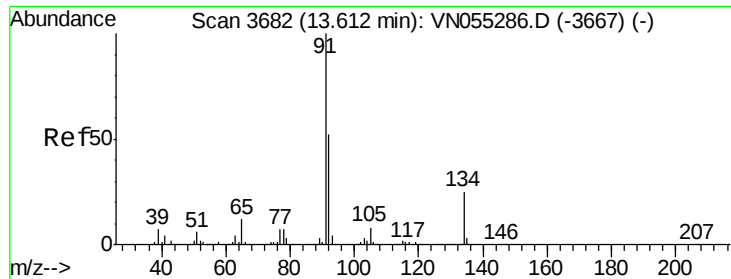
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 5/7/2019 1:22:42 PM



#88
 1,4-Dichlorobenzene
 Concen: 18.947 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055417.D
 Acq: 6 May 2019 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	115635		
111	40.7	19.5	58.5	
148	64.9	32.5	97.4	





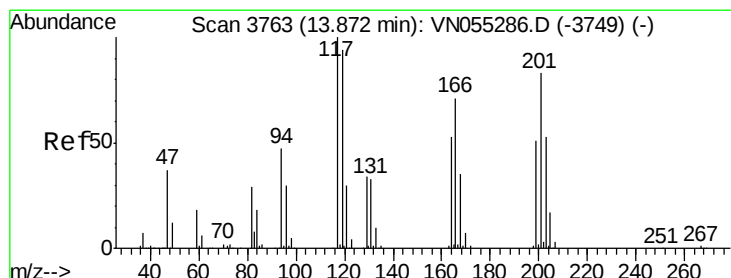
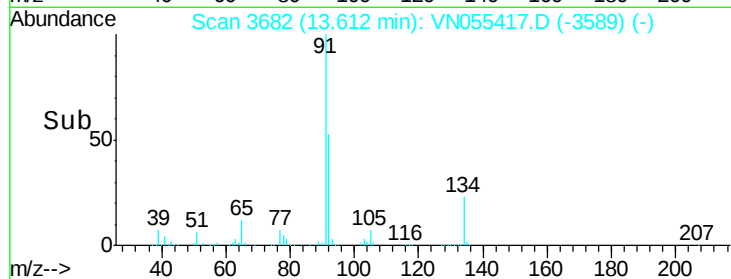
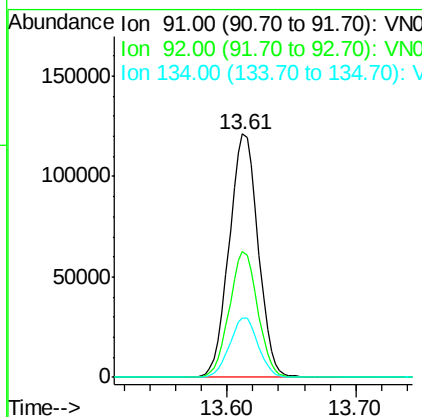
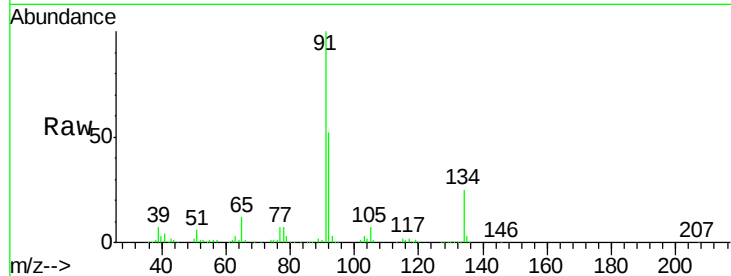
#89
n-Butylbenzene
Concen: 19.629 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
VN0506MBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	189185		
92	50.6	26.1	78.3	
134	24.0	12.4	37.4	

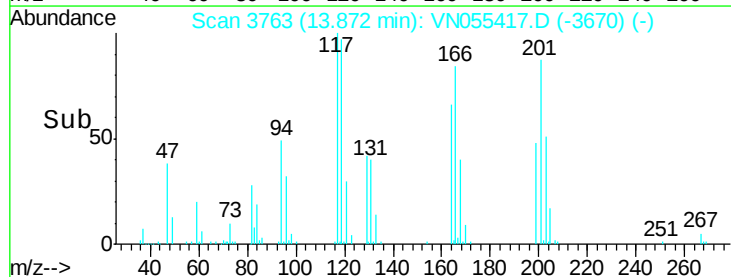
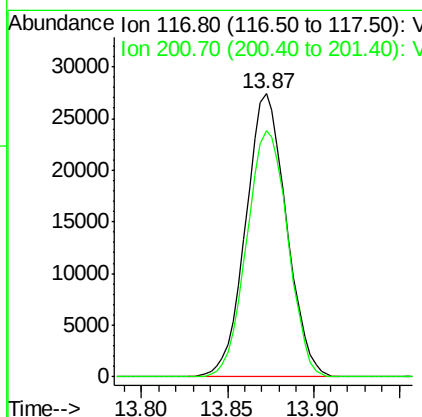
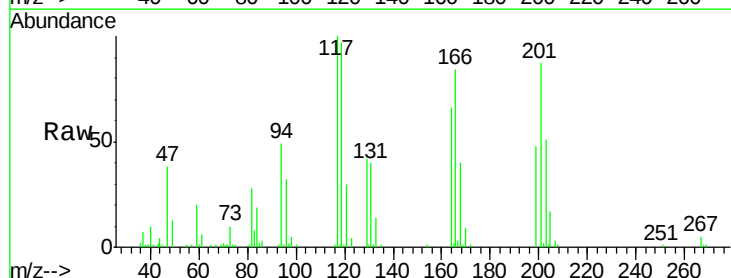
Manual Integrations
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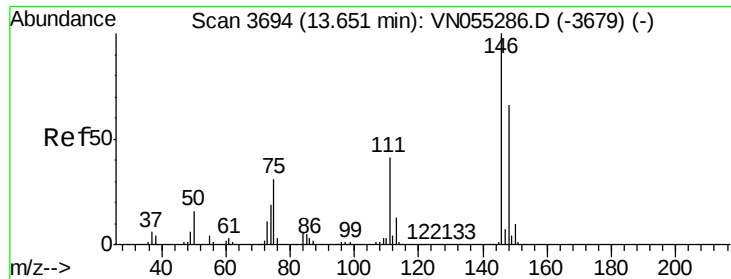
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#90
Hexachloroethane
Concen: 20.039 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055417.D
Acq: 6 May 2019 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	45063		
201	87.5	41.9	125.8	





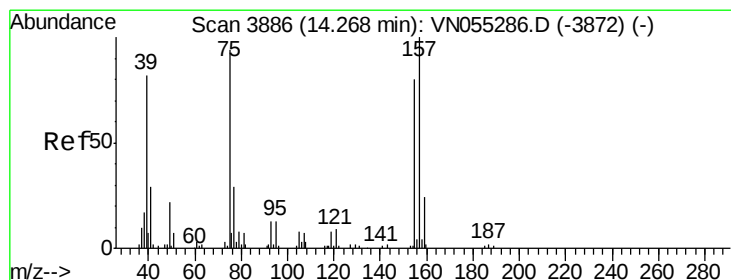
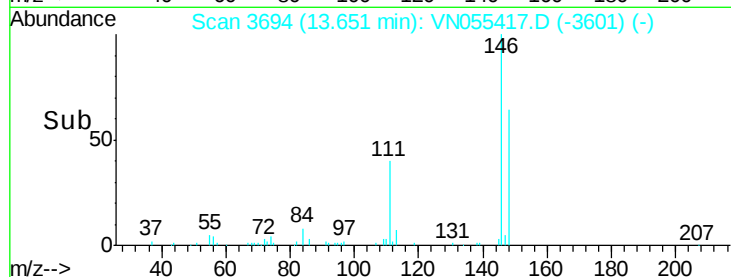
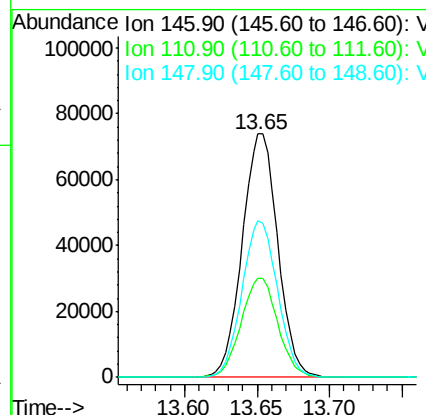
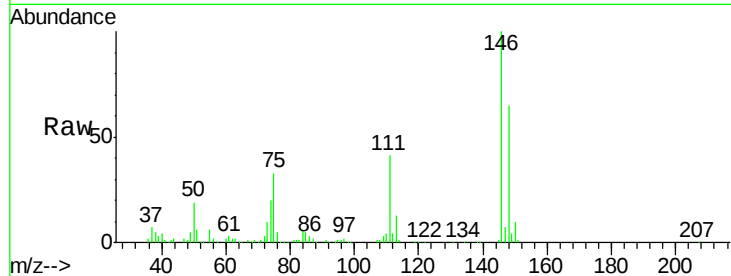
#91
 1,2-Dichlorobenzene
 Concen: 19.624 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN055417.D
 Acq: 6 May 2019 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0506MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.3	61.0
148	64.2	32.4	97.2

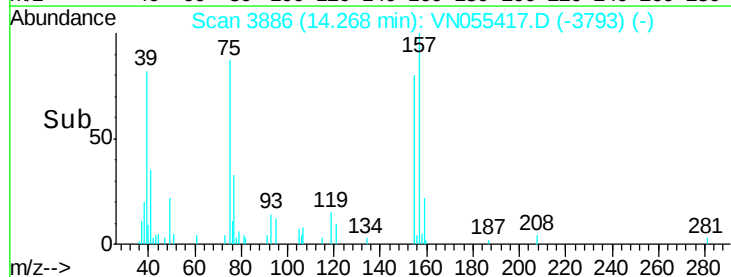
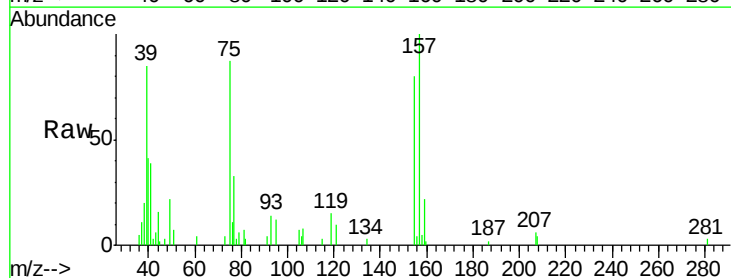
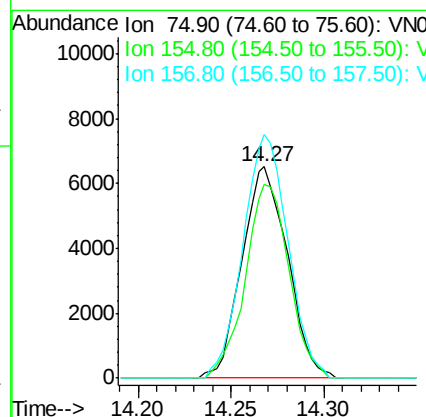
Manual Integrations
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.802 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055417.D
 Acq: 6 May 2019 15:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.9	41.5	124.6
157	113.4	54.0	162.2





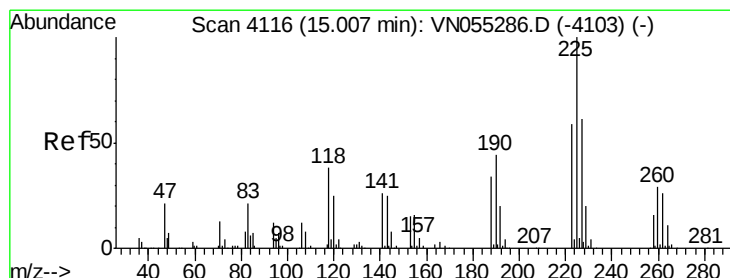
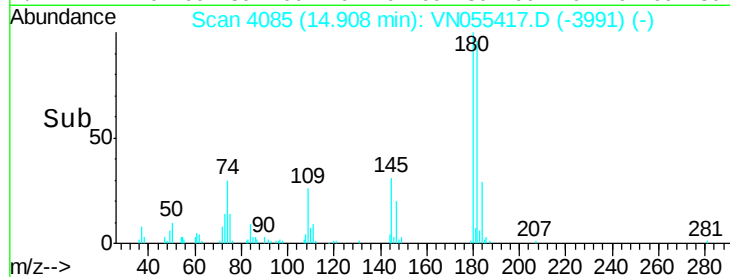
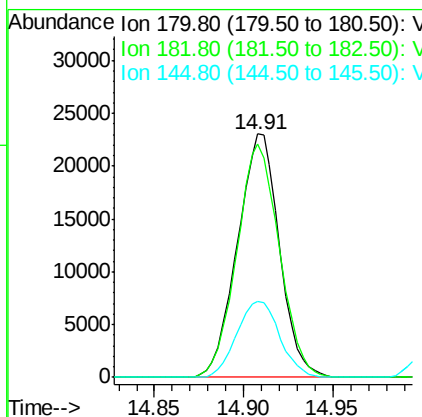
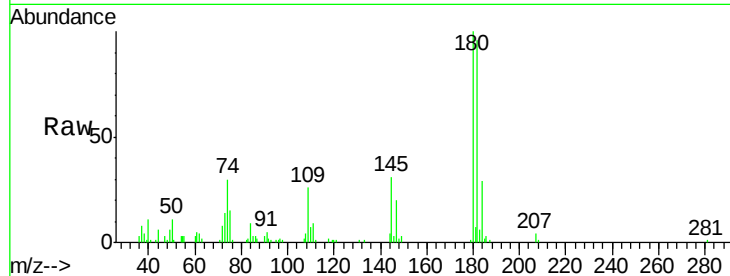
#93
 1,2,4-Trichlorobenzene
 Concen: 17.205 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055417.D
 Acq: 6 May 2019 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0506MBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	37677		
182	96.9	48.3	144.9	
145	31.9	14.2	42.6	

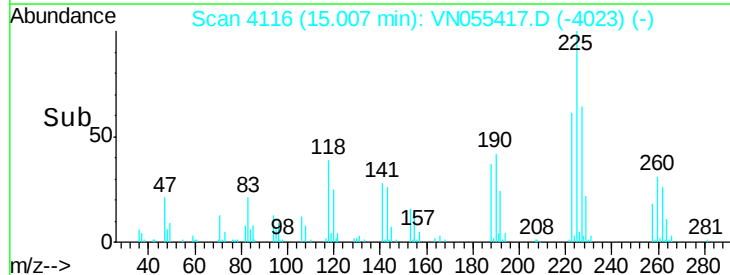
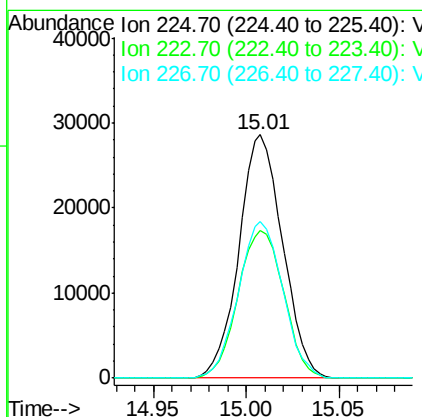
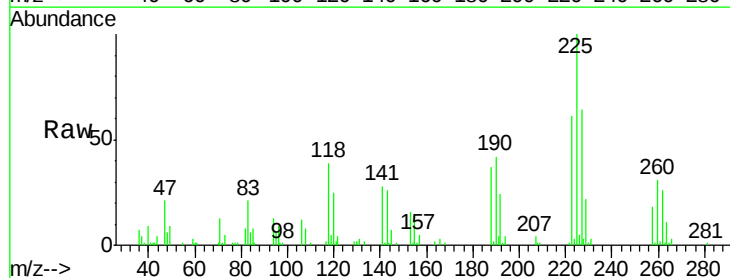
Manual Integrations
 APPROVED

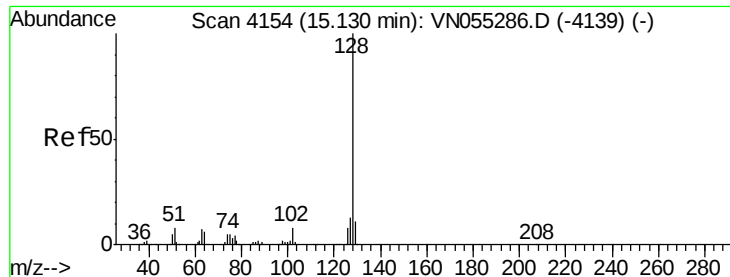
MMDadoda
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#94
 Hexachlorobutadiene
 Concen: 22.682 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055417.D
 Acq: 6 May 2019 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	46795		
223	63.5	30.3	90.8	
227	65.3	30.9	92.7	





#95

Naphthalene

Concen: 17.049 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Instrument :

MSVOA_N

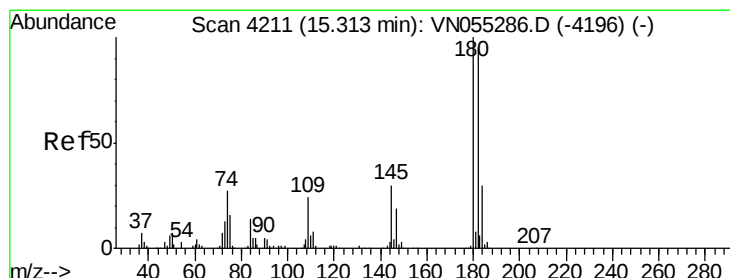
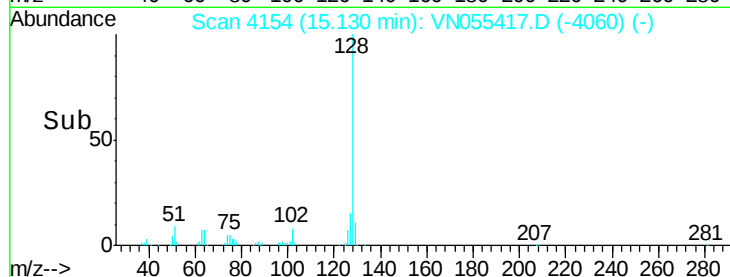
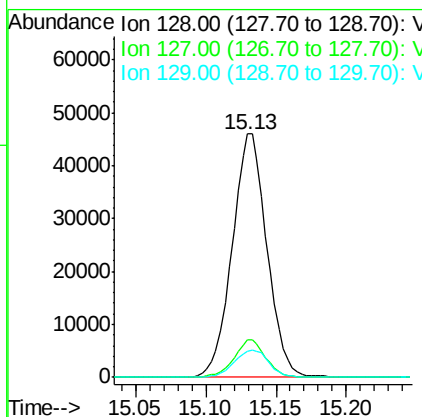
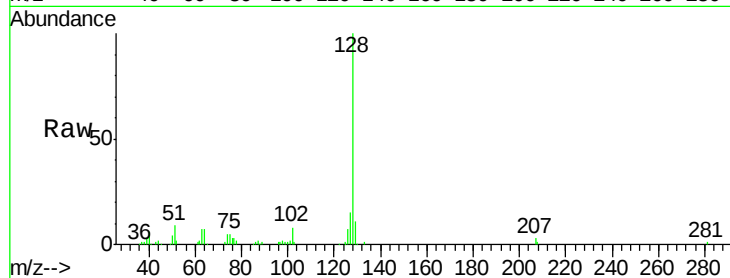
ClientSampleId :

VN0506MBS01

Tot Ion:	128	Resp:	79126
Ion Ratio	Lower	Upper	
128	100		
127	14.1	10.7	16.1
129	11.1	8.6	13.0

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 19.247 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055417.D

Acq: 6 May 2019 15:50

Tgt Ion:	180	Resp:	43769
Ion Ratio	Lower	Upper	
180	100		
182	95.5	48.3	144.9
145	30.0	15.2	45.6

