

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032119\
 Data File : VN054530.D
 Acq On : 22 Mar 2019 00:53
 Operator : JC/SP
 Sample : VN0321WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBS02

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 4:16:39 PM

Quant Time: Mar 22 10:34:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	477260	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	780706	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	671958	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	275789	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	334392	56.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.66%	
35) Dibromofluoromethane	7.59	113	261721	52.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.08%	
50) Toluene-d8	10.09	98	955800	50.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.10%	
62) 4-Bromofluorobenzene	12.40	95	311626	48.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	94999	20.822	ug/l	98
3) Chloromethane	2.06	50	134311	21.636	ug/l	99
4) Vinyl Chloride	2.19	62	131509	21.101	ug/l	99
5) Bromomethane	2.57	94	76775	19.051	ug/l	97
6) Chloroethane	2.71	64	73772	19.734	ug/l	99
7) Trichlorofluoromethane	3.02	101	157658	20.830	ug/l	99
8) Diethyl Ether	3.41	74	59992	20.609	ug/l	71
9) 1,1,2-Trichlorotrifluoroet	3.75	101	80912	18.190	ug/l	95
10) Methyl Iodide	3.94	142	110582	16.900	ug/l	93
11) Tert butyl alcohol	4.83	59	43427	120.832	ug/l	97
12) 1,1-Dichloroethene	3.73	96	88227	19.166	ug/l #	79
13) Acrolein	3.61	56	46277	93.305	ug/l	98
14) Allyl chloride	4.31	41	184971	21.339	ug/l #	91
15) Acrylonitrile	5.00	53	222057	124.070	ug/l	99
16) Acetone	3.82	43	166381	93.223	ug/l #	83
17) Carbon Disulfide	4.04	76	232854	18.879	ug/l	99
18) Methyl Acetate	4.33	43	100185	25.184	ug/l #	90
19) Methyl tert-butyl Ether	5.06	73	307282	22.872	ug/l	94
20) Methylene Chloride	4.54	84	115480	21.950	ug/l #	86
21) trans-1,2-Dichloroethene	5.04	96	105166	22.373	ug/l	89
22) Diisopropyl ether	5.96	45	394504	23.073	ug/l #	92
23) Vinyl Acetate	5.90	43	1425881	118.076	ug/l #	93
24) 1,1-Dichloroethane	5.85	63	214192	23.266	ug/l	97
25) 2-Butanone	6.85	43	277954	121.575	ug/l #	88
26) 2,2-Dichloropropane	6.82	77	104292	15.892	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	123412	22.012	ug/l	92
28) Bromochloromethane	7.20	49	106014	23.395	ug/l #	76
29) Tetrahydrofuran	7.22	42	193519	130.435	ug/l #	85
30) Chloroform	7.37	83	203658	22.668	ug/l	100
31) Cyclohexane	7.65	56	196214	21.172	ug/l	87
32) 1,1,1-Trichloroethane	7.57	97	169087	22.812	ug/l	95
36) 1,1-Dichloropropene	7.79	75	150884	20.670	ug/l	95
37) Ethyl Acetate	6.94	43	125902	24.250	ug/l	97
38) Carbon Tetrachloride	7.77	117	144044	20.306	ug/l	99

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Manual Integrations
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MMDadoda
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 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	159229	19.069	ug/l	90
40) Benzene	8.04	78	455565	21.825	ug/l	99
41) Methacrylonitrile	7.18	41	68671	21.689	ug/l	92
42) 1,2-Dichloroethane	8.13	62	166806	21.943	ug/l	97
43) Isopropyl Acetate	8.17	43	205467	23.433	ug/l #	94
44) Trichloroethene	8.83	130	121031	20.855	ug/l	93
45) 1,2-Dichloropropane	9.12	63	126325	22.538	ug/l	99
46) Dibromomethane	9.21	93	73984	22.126	ug/l	91
47) Bromodichloromethane	9.40	83	151373	21.813	ug/l	96
48) Methyl methacrylate	9.20	41	108267	22.750	ug/l	88
49) 1,4-Dioxane	9.21	88	24957	469.088	ug/l #	88
51) 4-Methyl-2-Pentanone	9.99	43	593350	122.105	ug/l	93
52) Toluene	10.16	92	267604	20.844	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	128921	19.057	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	160600	20.183	ug/l #	89
55) 1,1,2-Trichloroethane	10.56	97	103460	22.419	ug/l	97
56) Ethyl methacrylate	10.43	69	132404	21.376	ug/l #	81
57) 1,3-Dichloropropane	10.71	76	181038	22.567	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	266346	104.424	ug/l	90
59) 2-Hexanone	10.75	43	362864	114.321	ug/l	92
60) Dibromochloromethane	10.90	129	102124	20.796	ug/l	100
61) 1,2-Dibromoethane	11.01	107	99606	21.832	ug/l	99
64) Tetrachloroethene	10.63	164	115689	20.757	ug/l	94
65) Chlorobenzene	11.44	112	278040	20.344	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	104835	21.371	ug/l	98
67) Ethyl Benzene	11.51	91	486431	20.149	ug/l	99
68) m/p-Xylenes	11.62	106	359204	39.282	ug/l	95
69) o-Xylene	11.95	106	179001	20.044	ug/l	95
70) Styrene	11.96	104	292317	20.157	ug/l	97
71) Bromoform	12.13	173	61099	19.484	ug/l #	100
73) Isopropylbenzene	12.25	105	461145	20.750	ug/l	100
74) N-amyl acetate	12.07	43	152695	23.896	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.51	83	120319	23.717	ug/l	98
76) 1,2,3-Trichloropropane	12.56	75	110813m	25.321	ug/l	
77) Bromobenzene	12.53	156	115311	20.921	ug/l	85
78) n-propylbenzene	12.59	91	499310	20.720	ug/l	98
79) 2-Chlorotoluene	12.68	91	313802	20.882	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	384829	21.128	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	20551	18.333	ug/l #	72
82) 4-Chlorotoluene	12.77	91	303363	20.826	ug/l	96
83) tert-Butylbenzene	12.99	119	338893	21.375	ug/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	380250	21.276	ug/l	97
85) sec-Butylbenzene	13.17	105	414785	20.987	ug/l	96
86) p-Isopropyltoluene	13.29	119	368477	20.839	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	185701	20.331	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	178746	20.113	ug/l	96
89) n-Butylbenzene	13.62	91	277445	20.067	ug/l	96
90) Hexachloroethane	13.88	117	56970	20.757	ug/l	90
91) 1,2-Dichlorobenzene	13.65	146	190089	21.486	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	18331	24.635	ug/l	83

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ClientSampleId :
VN0321WBS02

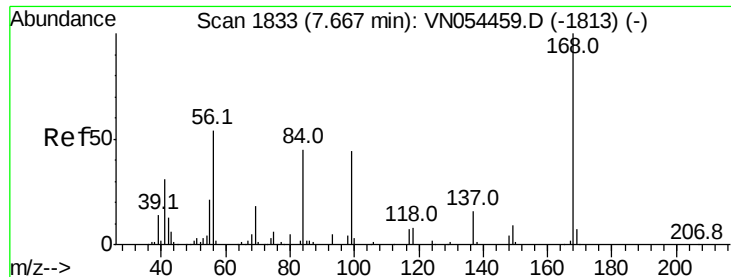
Manual Integrations
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3/22/2019 4:16:39 PM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	85367	19.356	ug/l	99
94) Hexachlorobutadiene	15.01	225	54267	20.435	ug/l	99
95) Naphthalene	15.13	128	204579	20.796	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	91552	20.857	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS02

Tot Ion:168 Resp: 477260

Ion Ratio Lower Upper

168 100

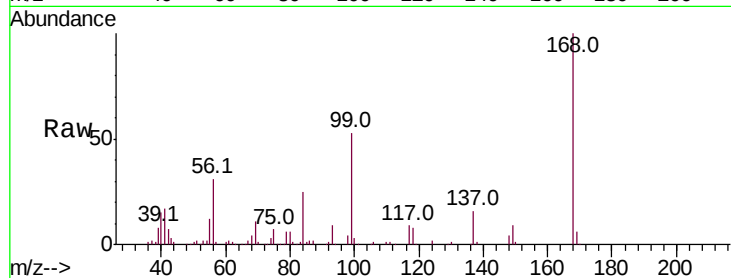
99 52.7 37.1 55.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VN054459.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN054459.D (-1813) (-)

7.66

200000

150000

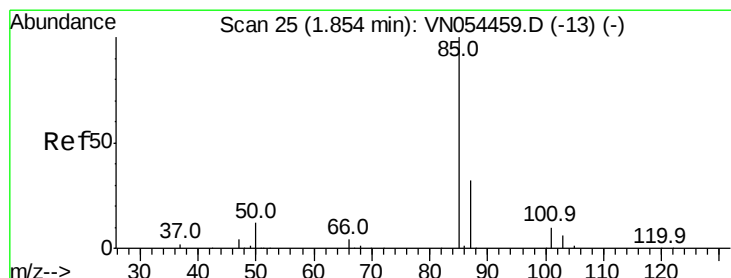
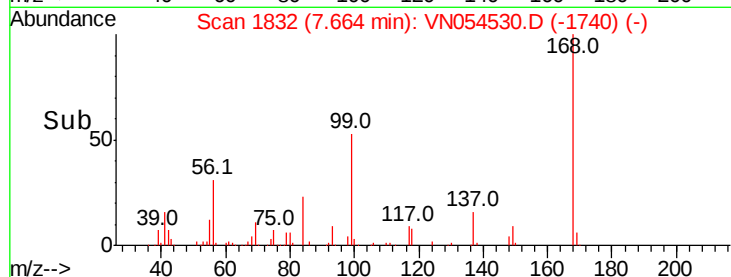
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 20.822 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN054530.D

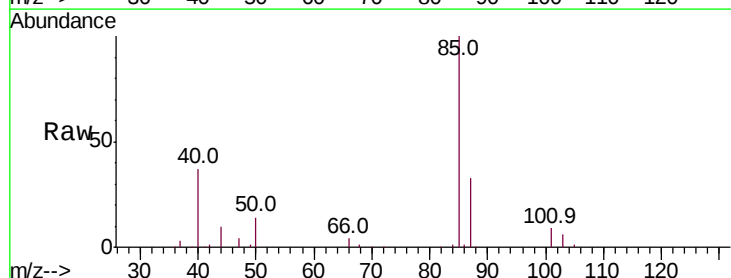
Acq: 22 Mar 2019 00:53

Tgt Ion: 85 Resp: 94999

Ion Ratio Lower Upper

85 100

87 32.8 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN054459.D (-13) (-)

Ion 86.90 (86.60 to 87.60): VN054459.D (-13) (-)

1.85

80000

60000

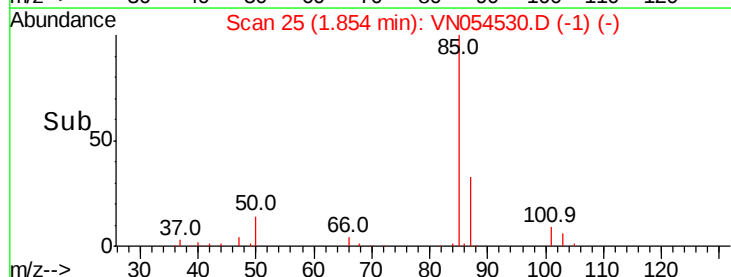
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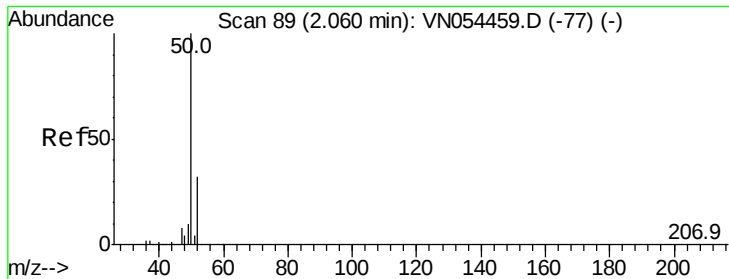
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 21.636 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS02

Tot Ion: 50 Resp: 134311

Ion Ratio Lower Upper

50 100

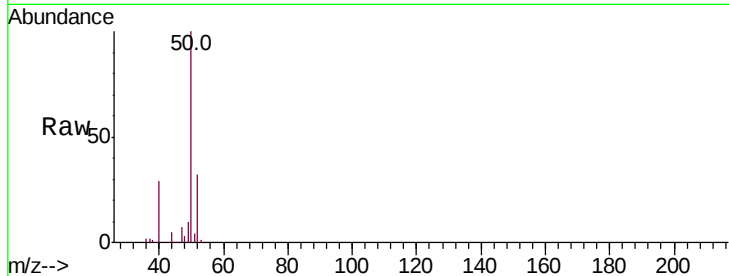
52 32.4 26.4 39.6

Manual Integrations

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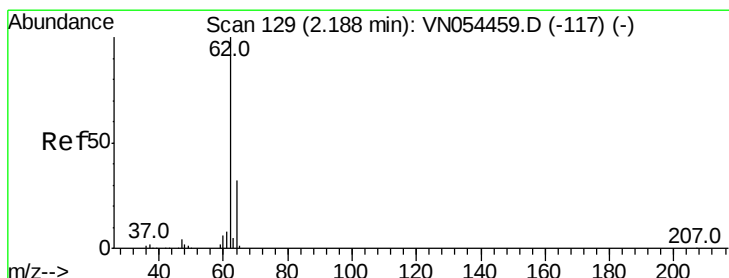
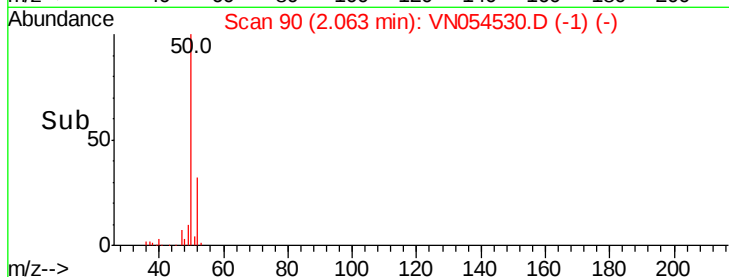
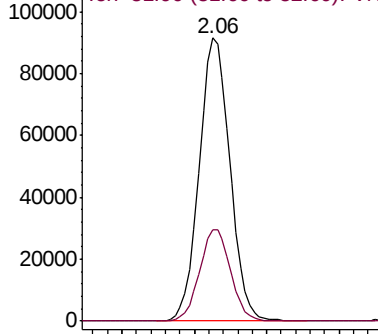
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 21.101 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054530.D

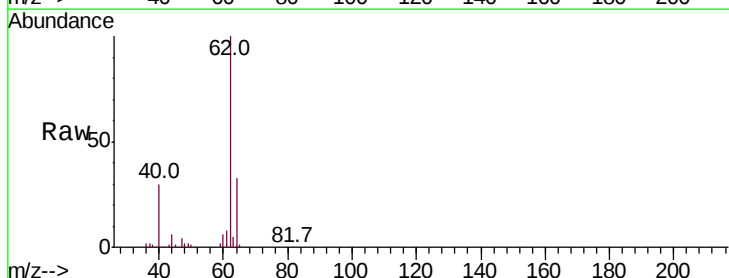
Acq: 22 Mar 2019 00:53

Tgt Ion: 62 Resp: 131509

Ion Ratio Lower Upper

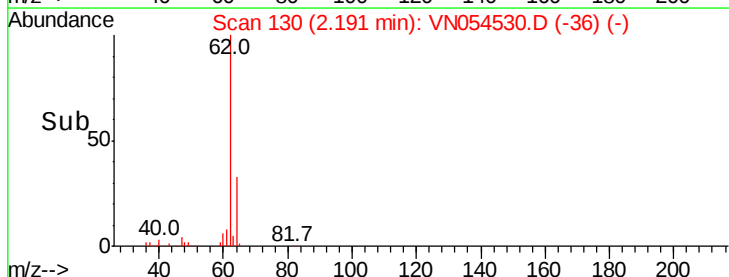
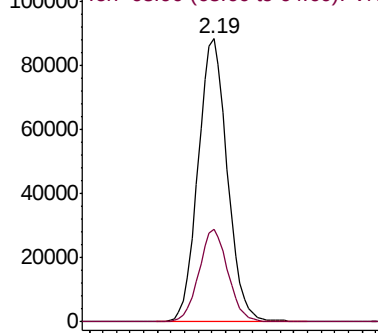
62 100

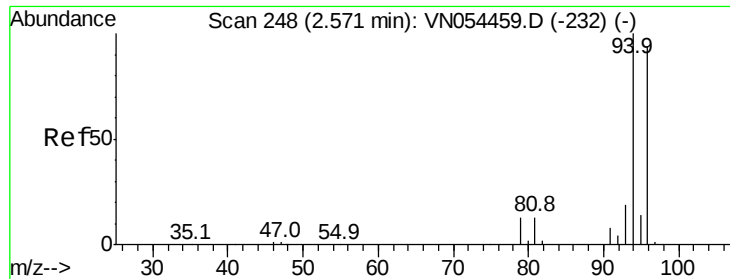
64 32.5 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 19.051 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS02

Tot Ion: 94 Resp: 76775

Ion Ratio Lower Upper

94 100

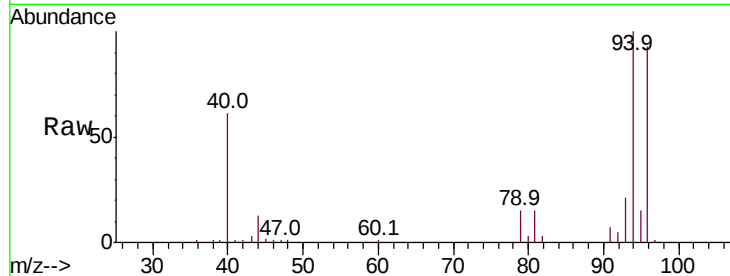
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Manual Integrations

APPROVED

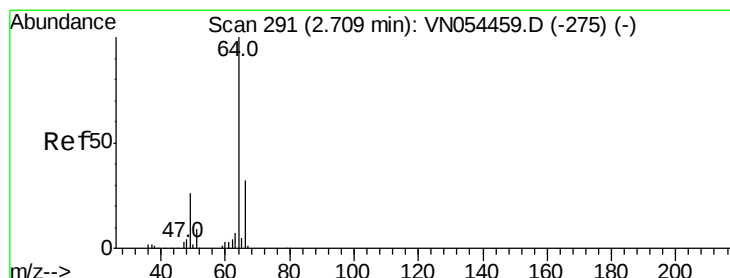
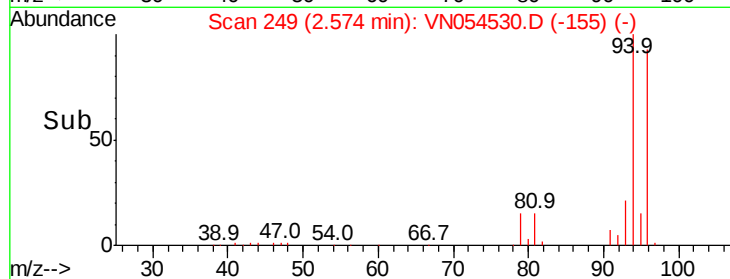
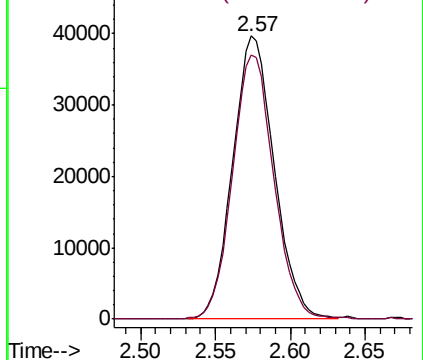
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.734 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN054530.D

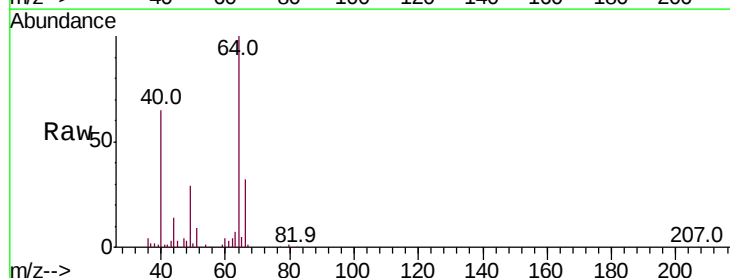
Acq: 22 Mar 2019 00:53

Tgt Ion: 64 Resp: 73772

Ion Ratio Lower Upper

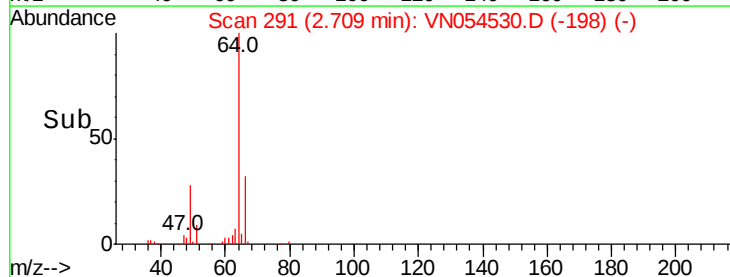
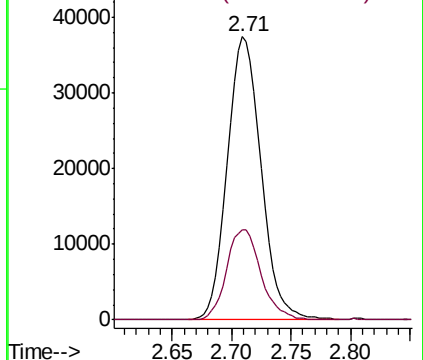
64 100

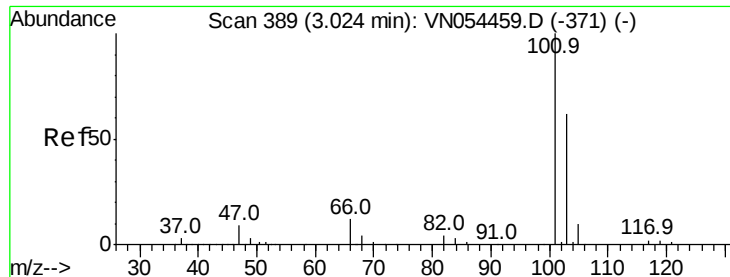
66 31.7 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

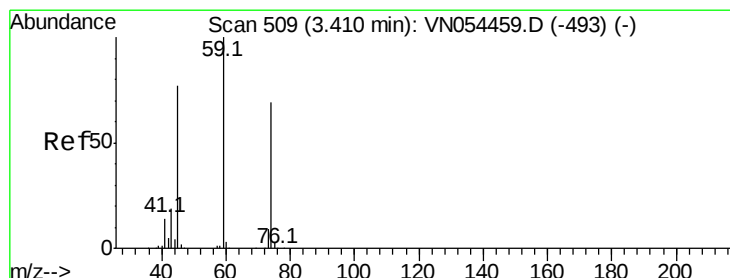
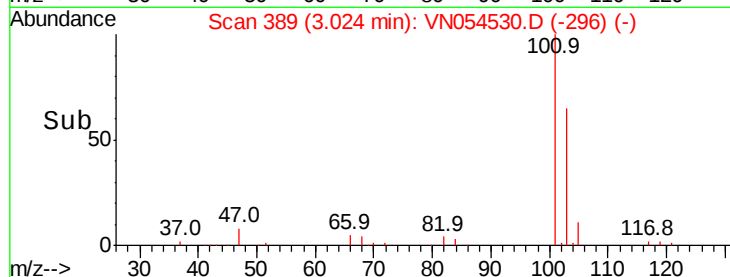
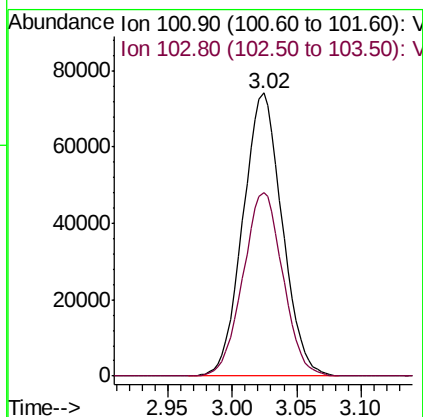
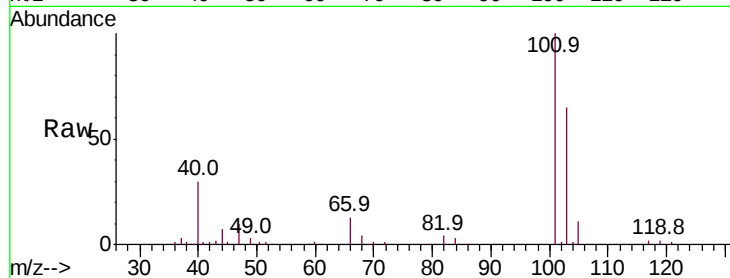
Trichlorofluoromethane
Concen: 20.830 ug/l
RT: 3.02 min Scan# 389
Delta R.T. -0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Instrument :
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ClientSampleId :
VN0321WBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.0	51.4	77.2

Manual Integrations
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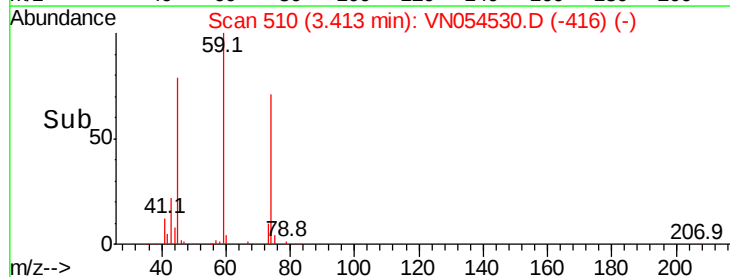
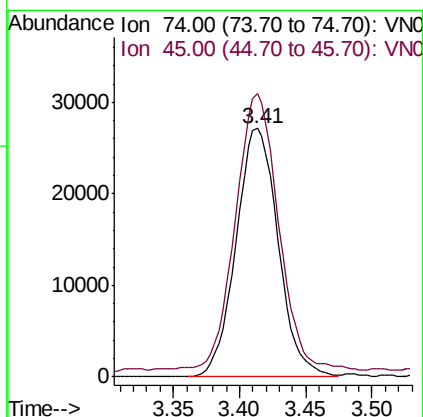
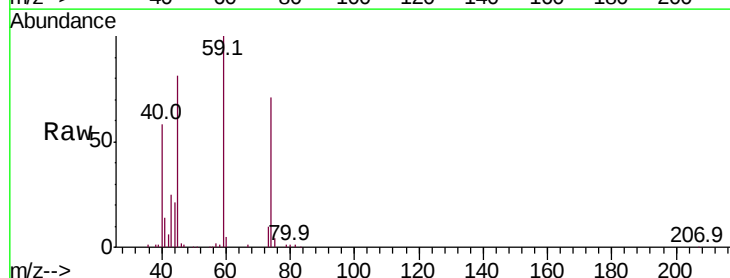
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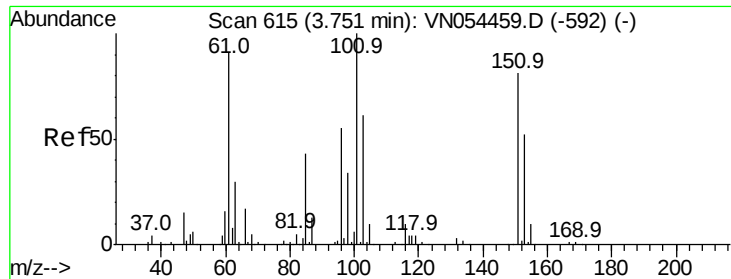


#8

Diethyl Ether
Concen: 20.609 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Tgt Ion	Ratio	Lower	Upper
74	100		
45	113.4	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.190 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

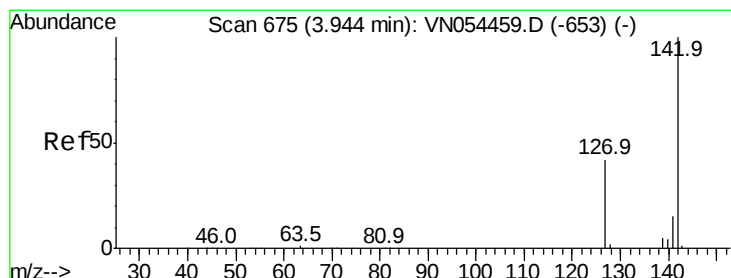
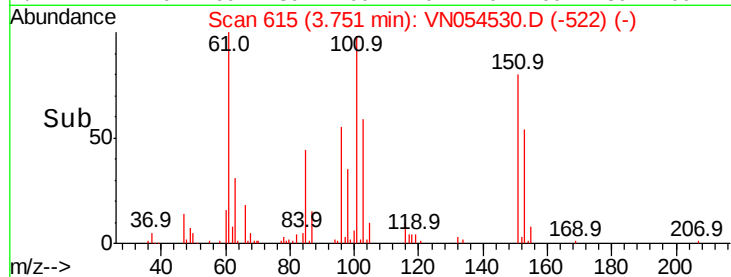
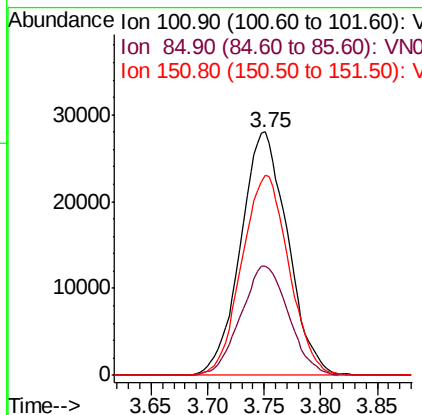
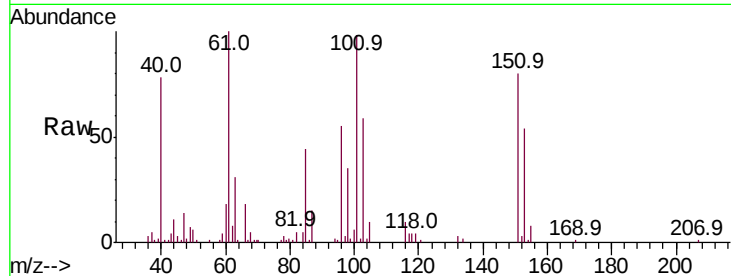
ClientSampleId :

VN0321WBS02

Tot Ion:	101	Resp:	80912
Ion Ratio	Lower	Upper	
101	100		
85	45.6	32.4	48.6
151	82.3	68.2	102.2

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#10

Methyl Iodide

Concen: 16.900 ug/l

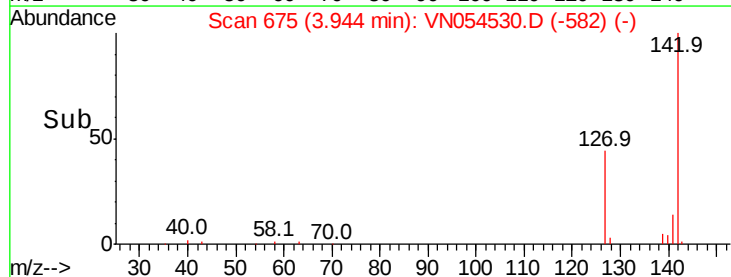
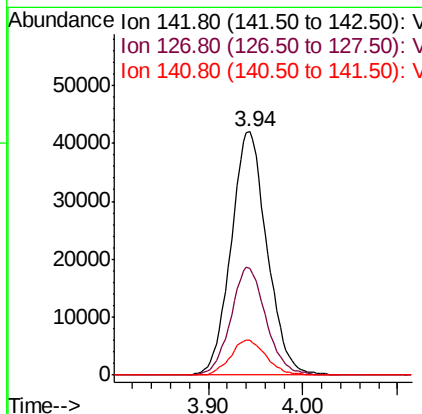
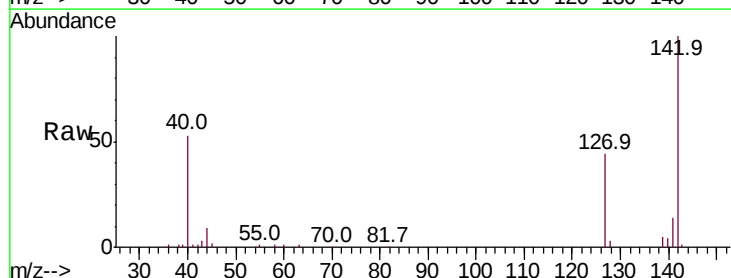
RT: 3.94 min Scan# 675

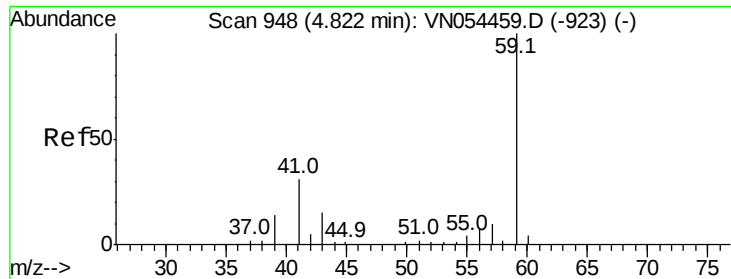
Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Tgt Ion:	142	Resp:	110582
Ion Ratio	Lower	Upper	
142	100		
127	43.3	30.3	45.5
141	14.2	11.2	16.8





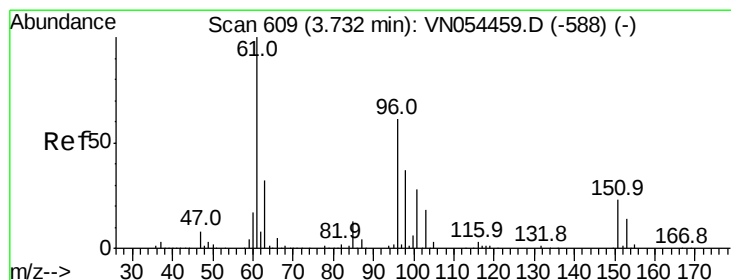
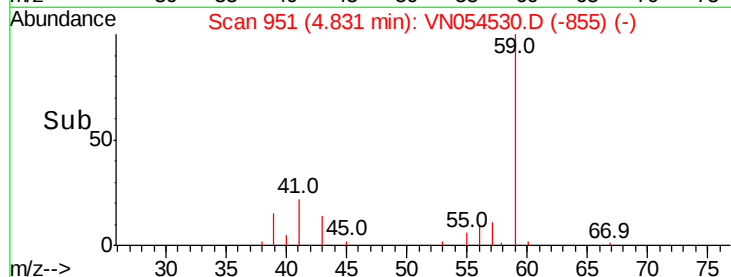
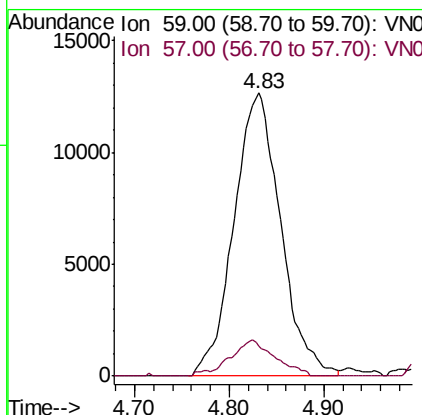
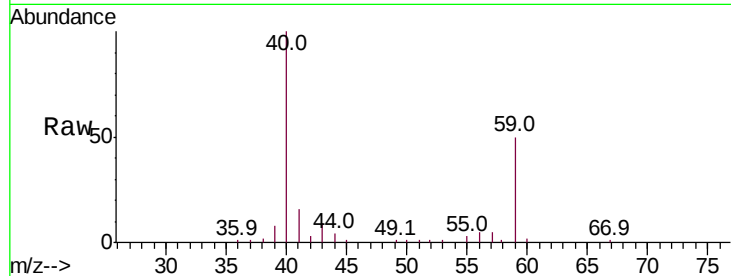
#11
Tert butyl alcohol
Concen: 120.832 ug/l
RT: 4.83 min Scan# 951
Delta R.T. 0.01 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS02

Tot Ion: 59 Resp: 43427
Ion Ratio Lower Upper
59 100
57 12.3 9.0 13.6

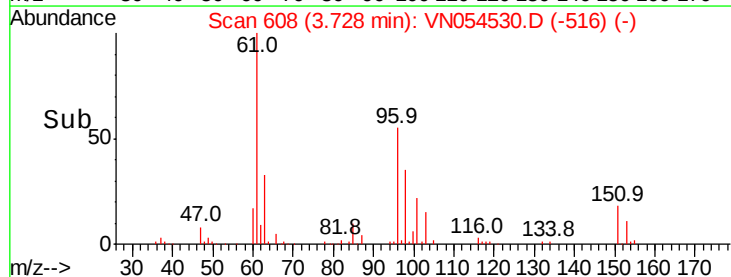
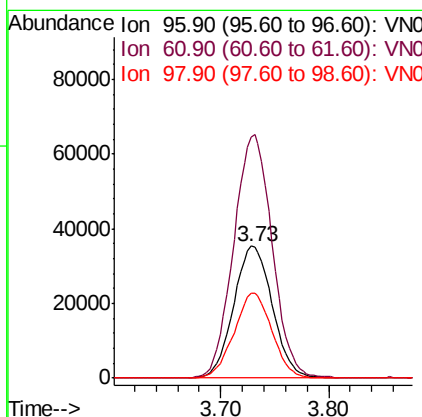
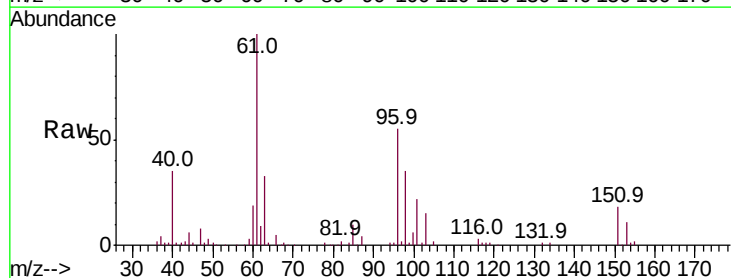
Manual Integrations
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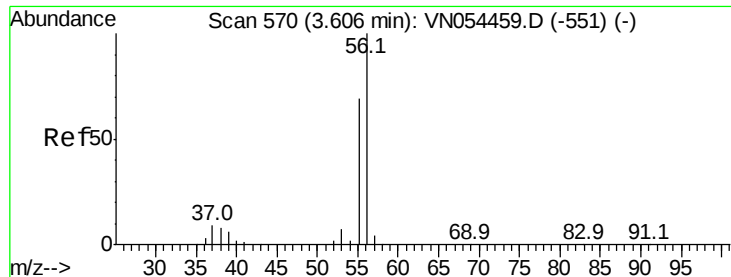
MMDadoda
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#12
1,1-Dichloroethene
Concen: 19.166 ug/l
RT: 3.73 min Scan# 608
Delta R.T. -0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Tgt Ion: 96 Resp: 88227
Ion Ratio Lower Upper
96 100
61 182.9 116.5 174.7#
98 64.0 51.0 76.4





#13

Acrolein

Concen: 93.305 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS02

Tot Ion: 56 Resp: 46277

Ion Ratio Lower Upper

56 100

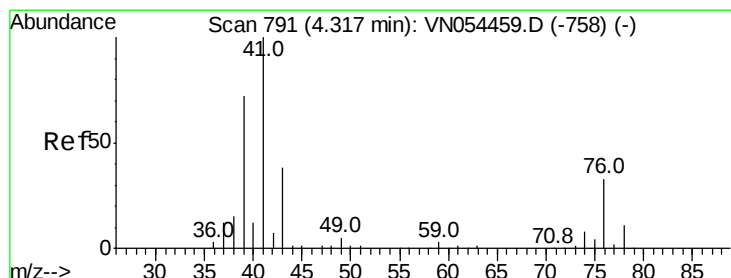
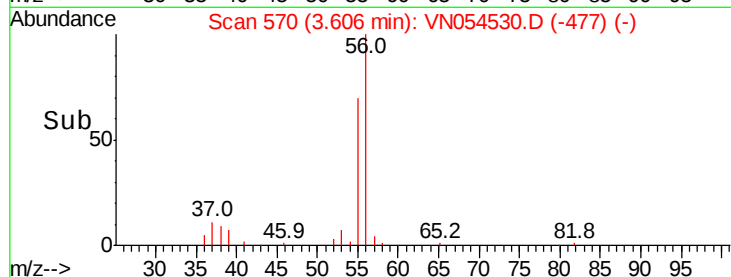
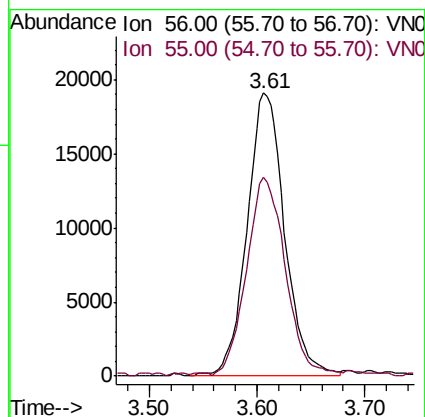
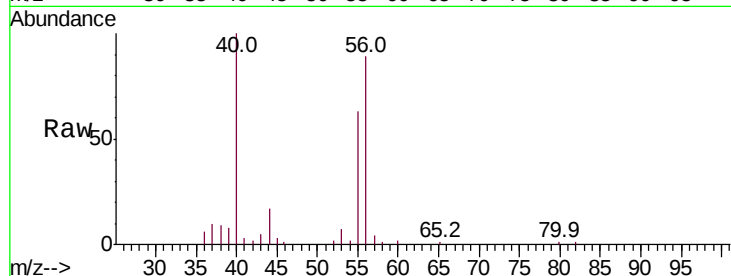
55 72.9 56.7 85.1

Manual Integrations

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#14

Allyl chloride

Concen: 21.339 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

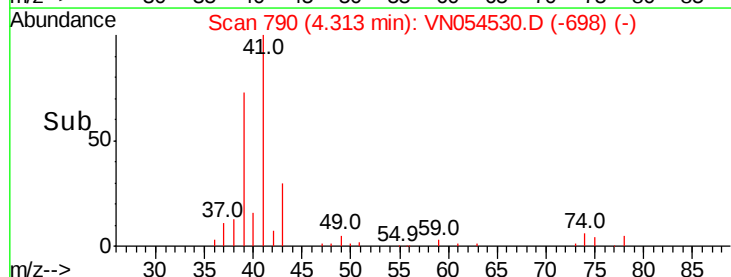
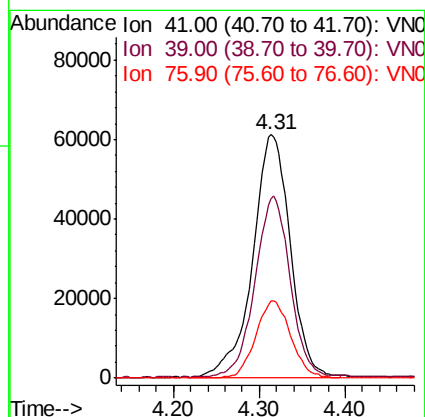
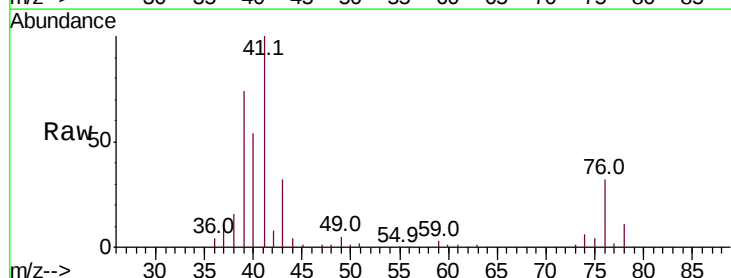
Tgt Ion: 41 Resp: 184971

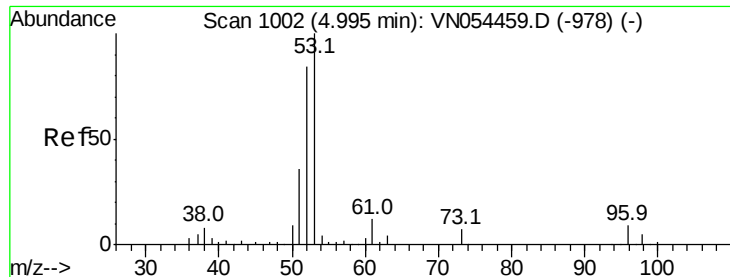
Ion Ratio Lower Upper

41 100

39 68.7 58.2 87.4

76 29.8 31.7 47.5#





#15

Acrylonitrile

Concen: 124.070 ug/l

RT: 5.00 min Scan# 1003

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

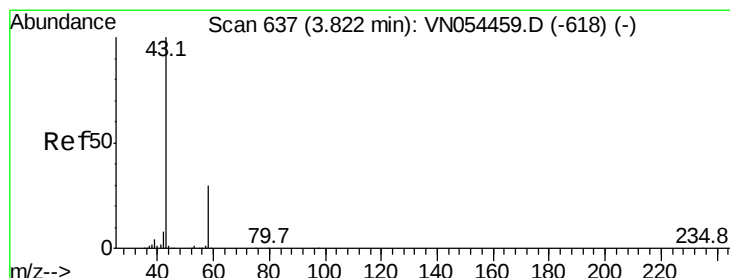
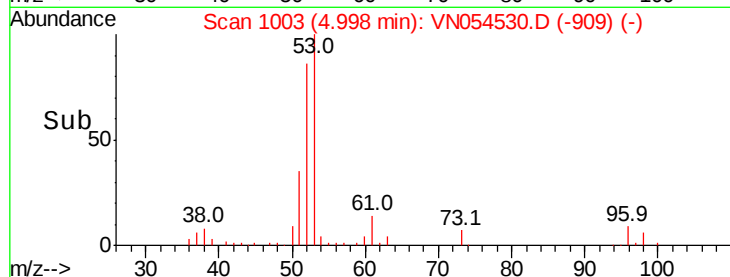
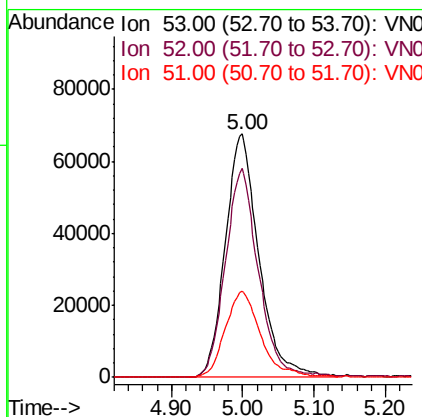
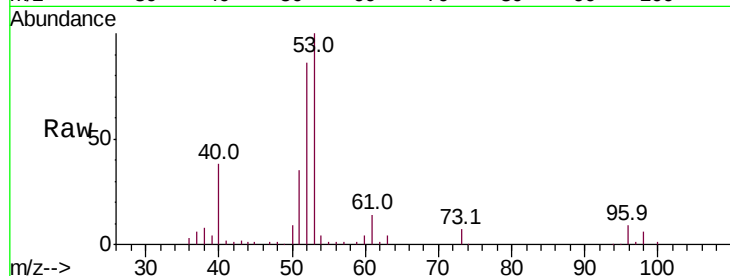
ClientSampleId :

VN0321WBS02

Tot Ion:	53	Resp:	222057
Ion Ratio	Lower	Upper	
53	100		
52	84.6	66.4	99.6
51	37.5	29.6	44.4

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#16

Acetone

Concen: 93.223 ug/l

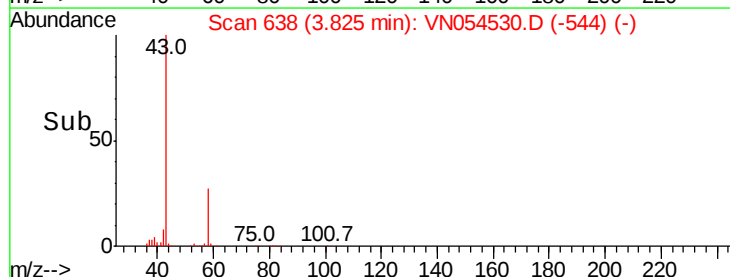
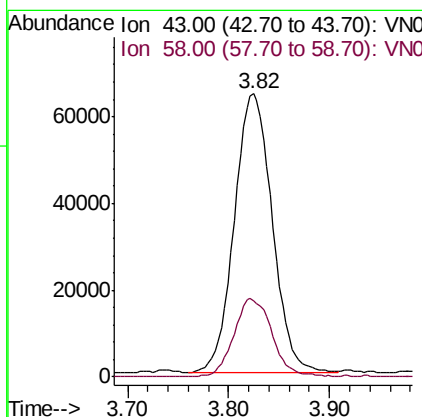
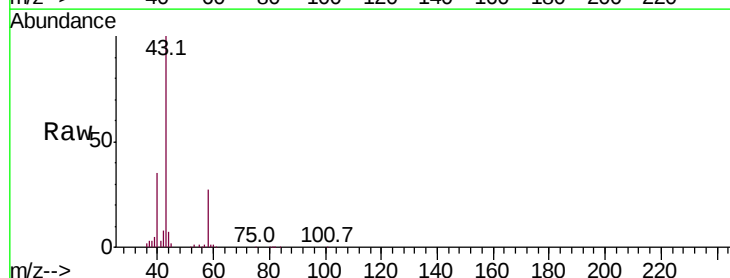
RT: 3.82 min Scan# 638

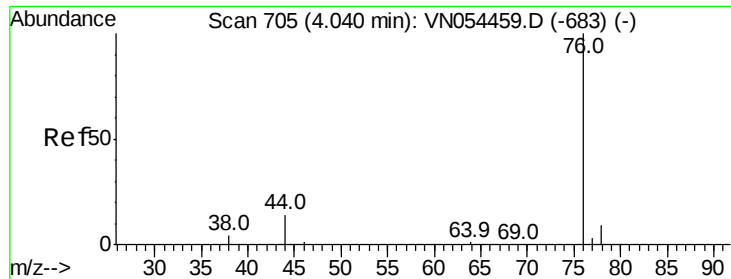
Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Tgt Ion:	43	Resp:	166381
Ion Ratio	Lower	Upper	
43	100		
58	27.3	29.9	44.9#





#17

Carbon Disulfide

Concen: 18.879 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampled :

VN0321WBS02

Tot Ion: 76 Resp: 232854

Ion Ratio Lower Upper

76 100

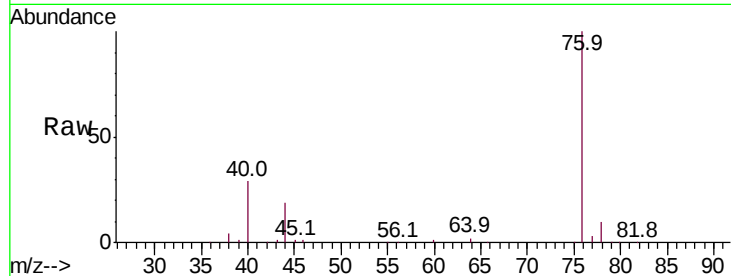
78 9.8 7.5 11.3

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.04

100000

80000

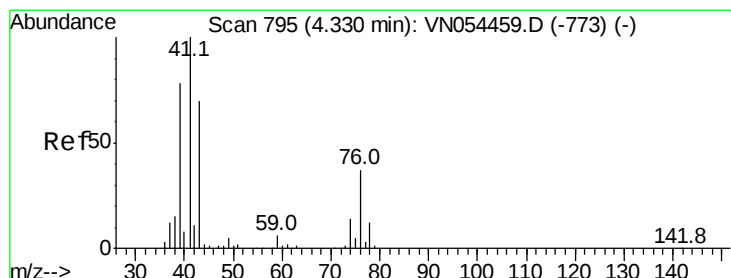
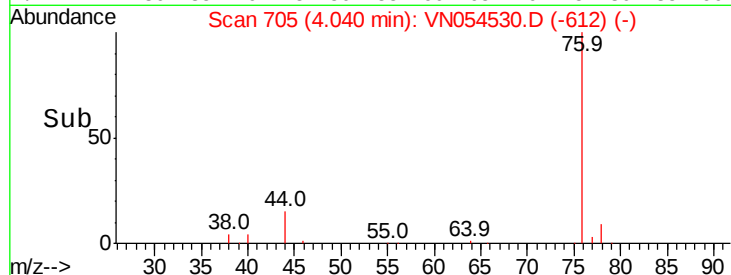
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 25.184 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054530.D

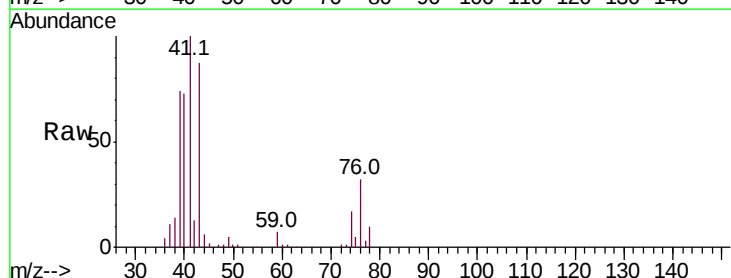
Acq: 22 Mar 2019 00:53

Tgt Ion: 43 Resp: 100185

Ion Ratio Lower Upper

43 100

74 20.8 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

40000

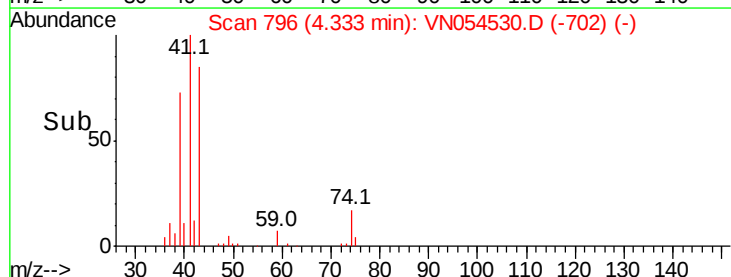
30000

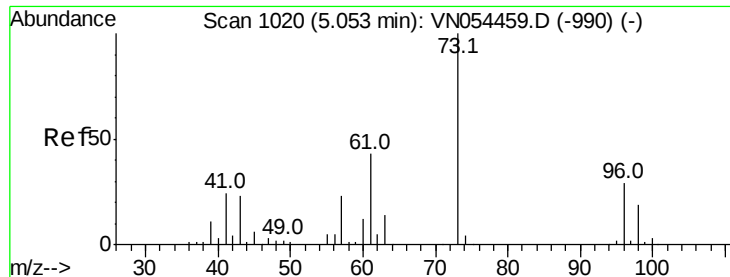
20000

10000

0

Time-->





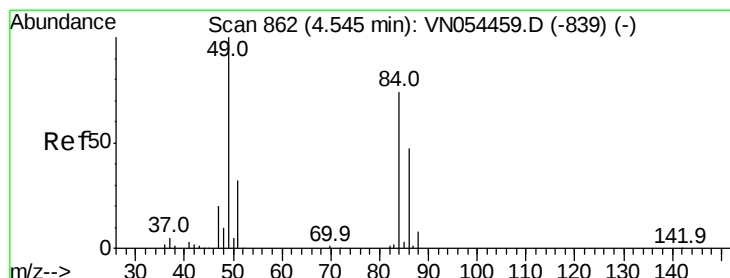
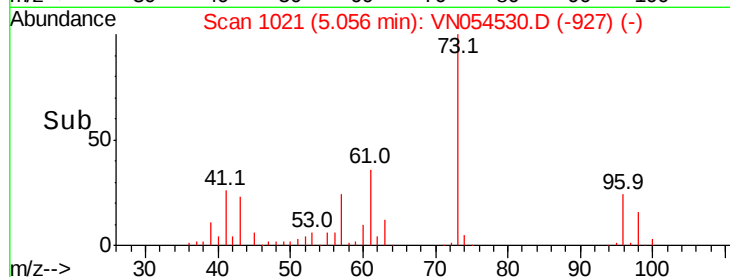
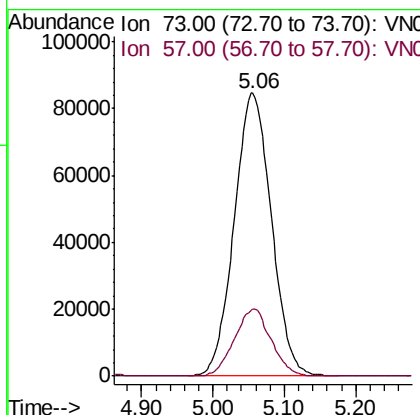
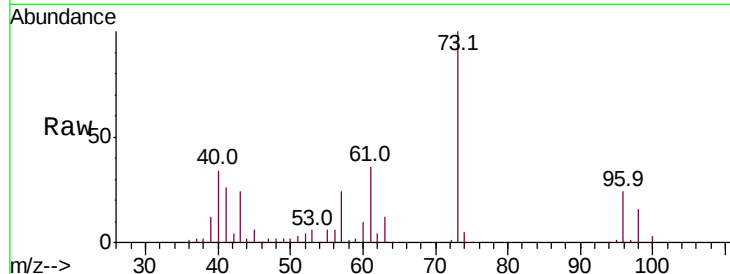
#19
Methyl tert-butyl Ether
Concen: 22.872 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS02

Tot Ion: 73 Resp: 307282
Ion Ratio Lower Upper
73 100
57 23.7 16.8 25.2

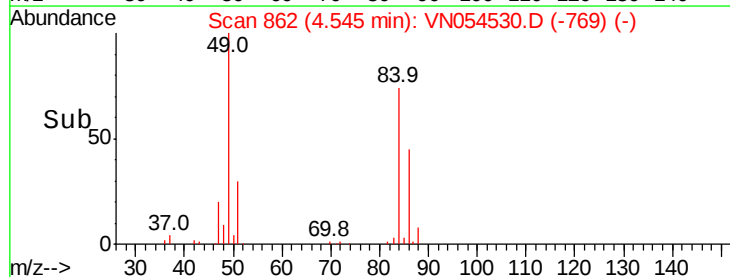
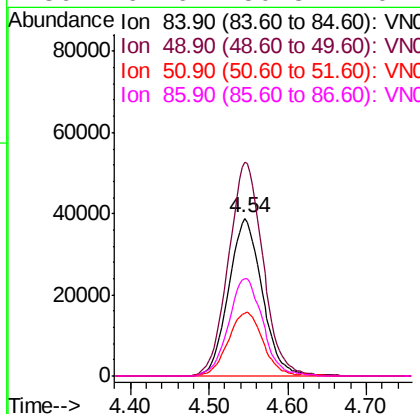
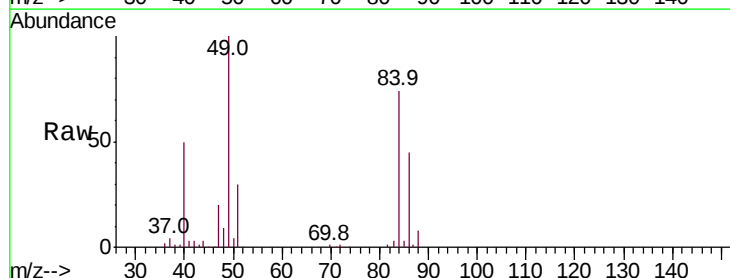
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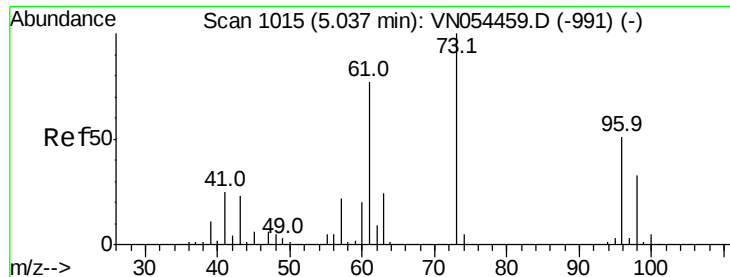
MMDadoda
3/22/2019 4:16:39 PM



#20
Methylene Chloride
Concen: 21.950 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Tgt Ion: 84 Resp: 115480
Ion Ratio Lower Upper
84 100
49 135.4 89.7 134.5#
51 40.0 28.2 42.4
86 61.6 50.8 76.2





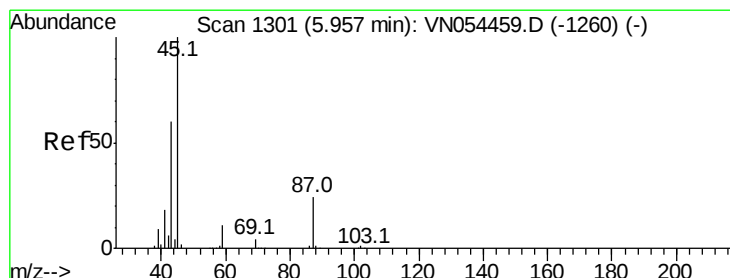
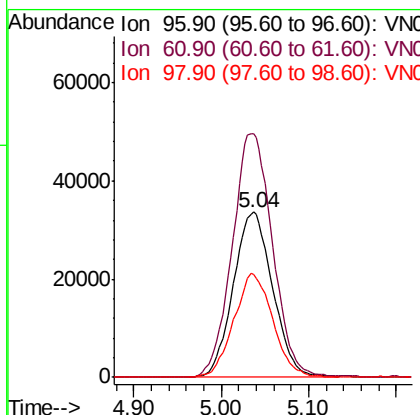
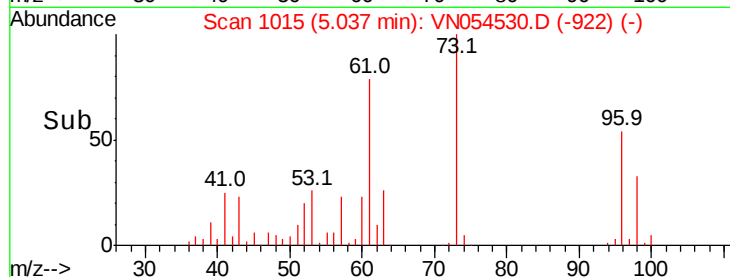
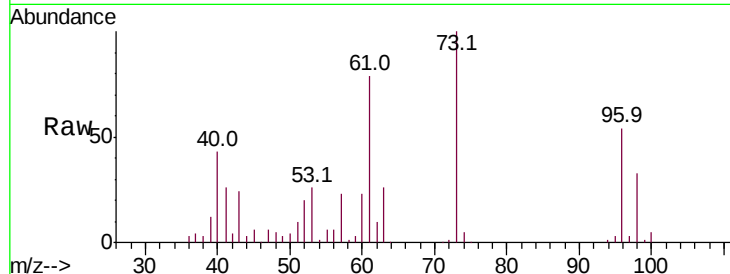
#21
trans-1,2-Dichloroethene
Concen: 22.373 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. -0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	147.5	102.8	154.2
98	62.2	50.0	75.0

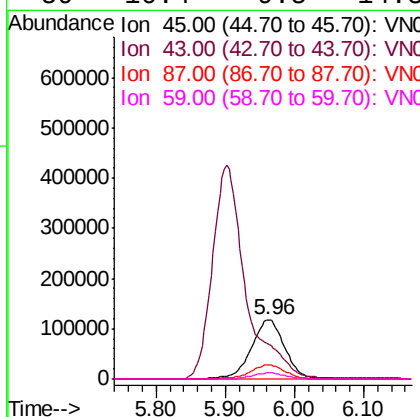
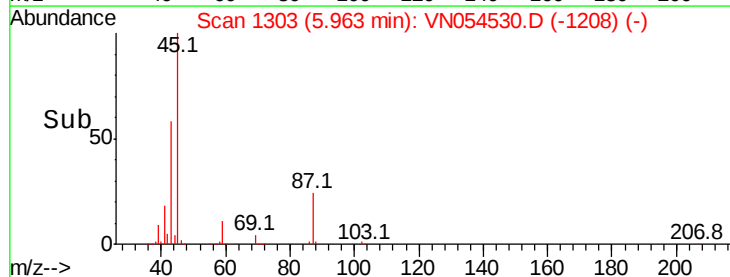
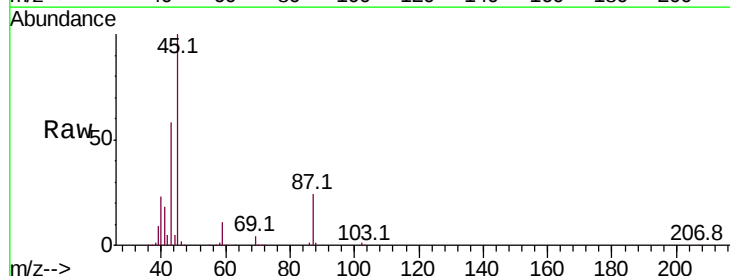
Manual Integrations
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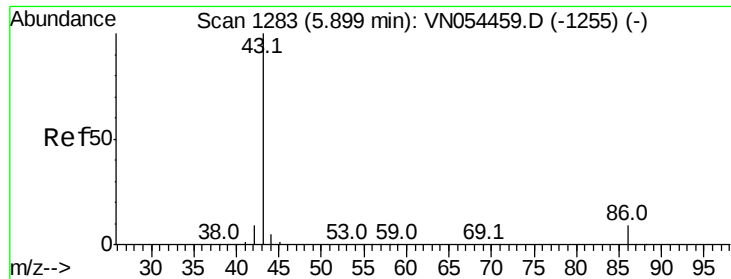
MMDadoda
3/22/2019 4:16:39 PM



#22
Diisopropyl ether
Concen: 23.073 ug/l
RT: 5.96 min Scan# 1303
Delta R.T. 0.01 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Tgt Ion	Ratio	Lower	Upper
45	100		
43	55.8	48.2	72.2
87	23.8	24.9	37.3#
59	10.4	9.5	14.3





#23

Vinyl Acetate

Concen: 118.076 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS02

Tot Ion: 43 Resp: 1425881

Ion Ratio Lower Upper

43 100

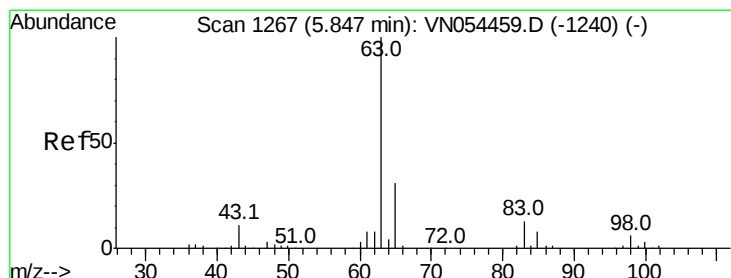
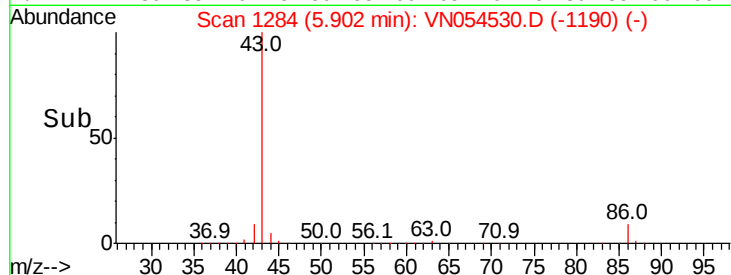
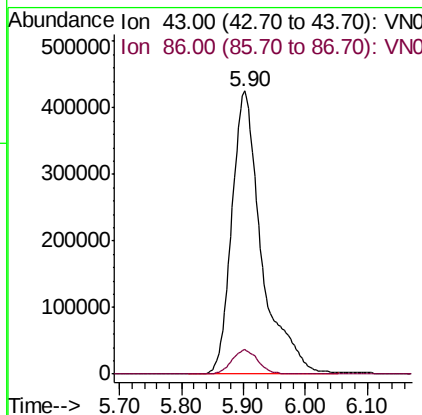
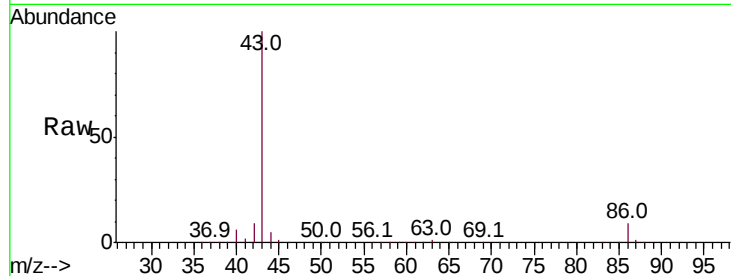
86 8.7 9.1 13.7#

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 23.266 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

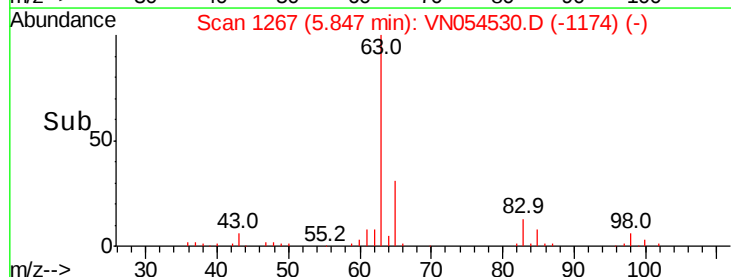
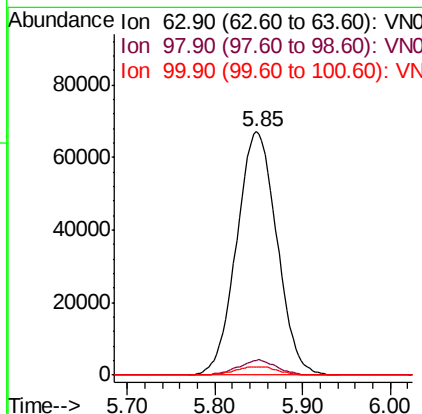
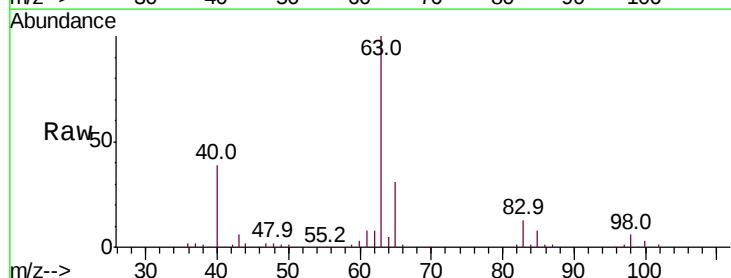
Tgt Ion: 63 Resp: 214192

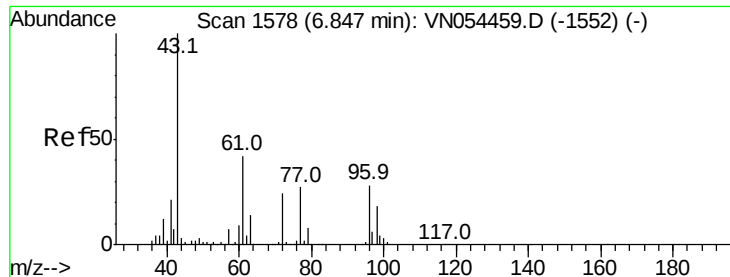
Ion Ratio Lower Upper

63 100

98 6.1 3.5 10.5

100 3.2 2.0 6.0





#25

2-Butanone

Concen: 121.575 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampled :

VN0321WBS02

Tot Ion: 43 Resp: 277954

Ion Ratio Lower Upper

43 100

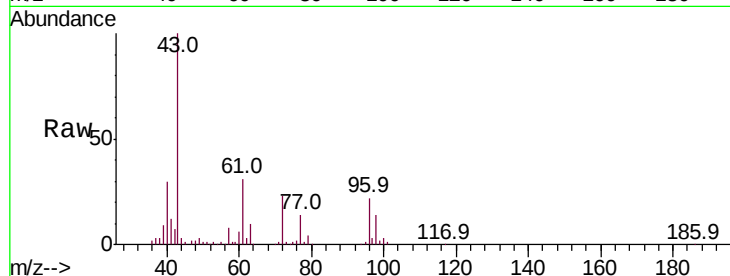
72 22.6 23.0 34.6#

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.85

100000

80000

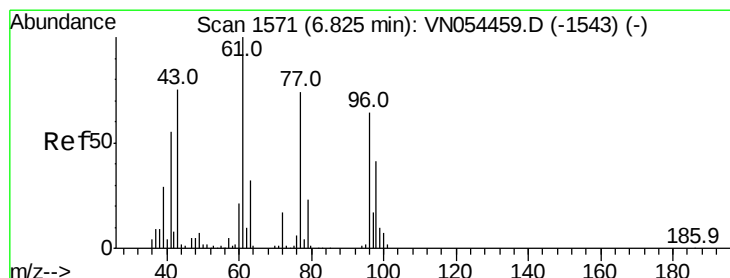
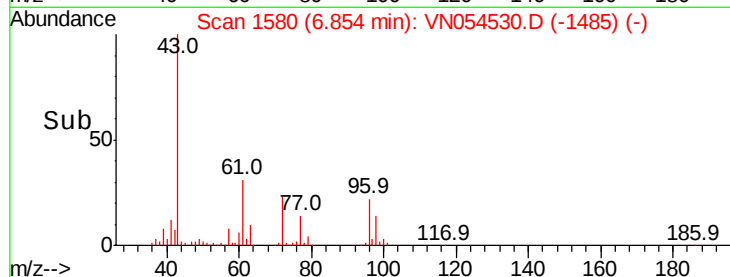
60000

40000

20000

0

Time--> 6.70 6.80 6.90



#26

2,2-Dichloropropane

Concen: 15.892 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054530.D

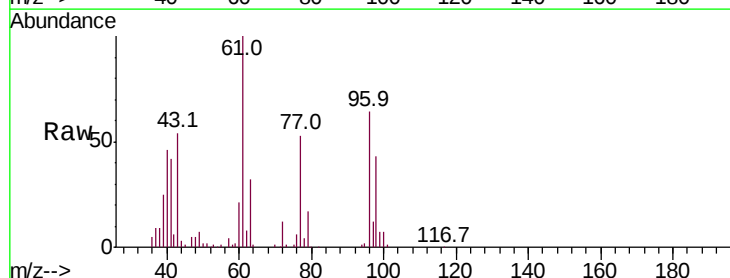
Acq: 22 Mar 2019 00:53

Tgt Ion: 77 Resp: 104292

Ion Ratio Lower Upper

77 100

97 23.5 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.82

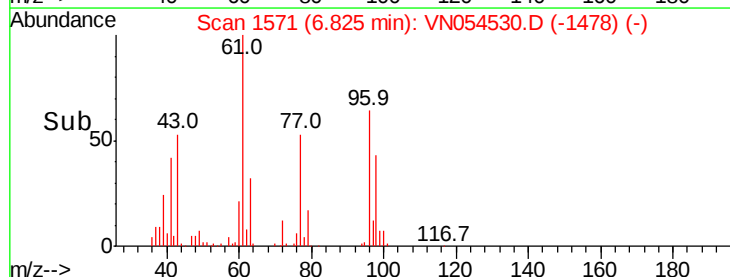
30000

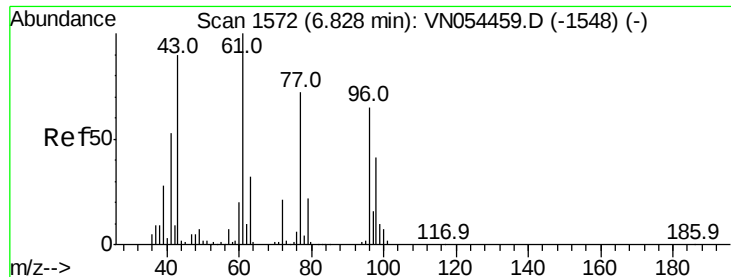
20000

10000

0

Time--> 6.70 6.80 6.90





#27

cis-1,2-Dichloroethene

Concen: 22.012 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

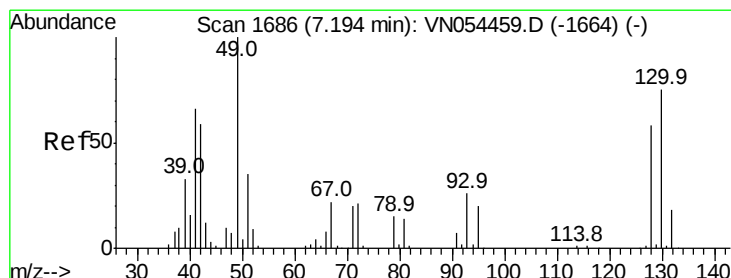
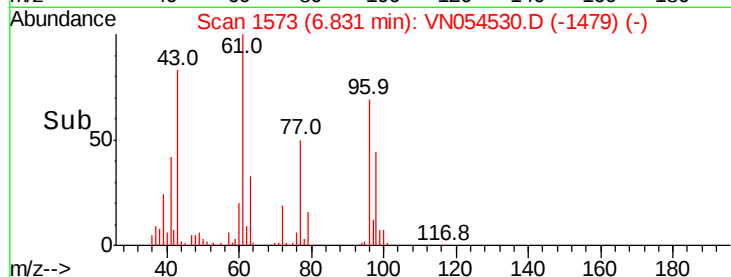
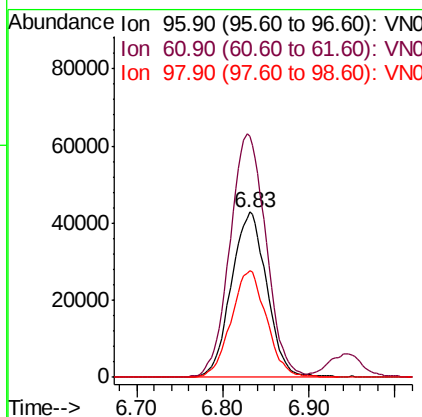
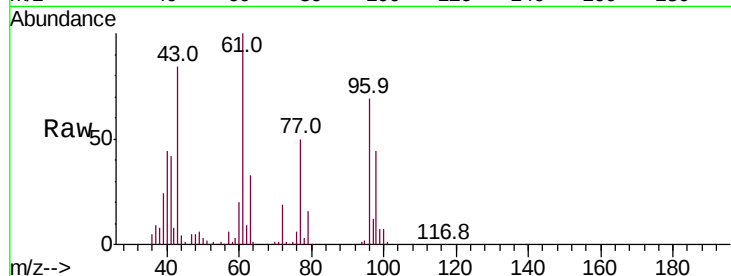
ClientSampleId :

VN0321WBS02

Tot Ion:	96	Resp:	123412
Ion Ratio	Lower	Upper	
96	100		
61	149.1	0.0	273.0
98	64.2	0.0	130.6

Manual Integrations
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3/22/2019 4:16:39 PM



#28

Bromochloromethane

Concen: 23.395 ug/l

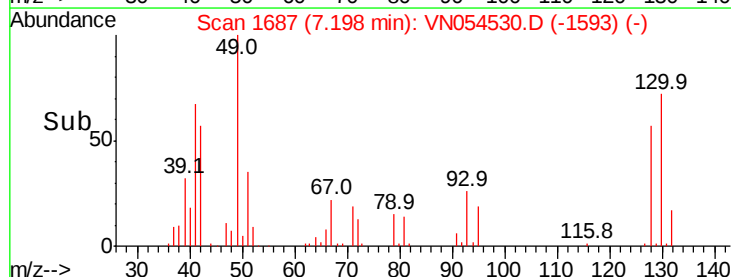
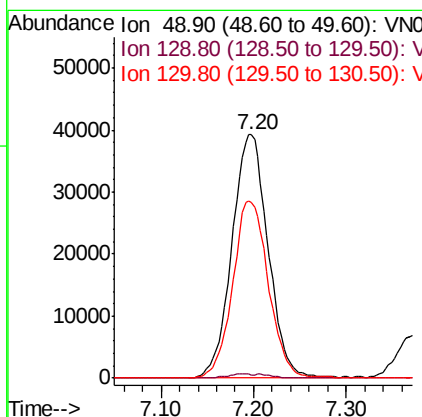
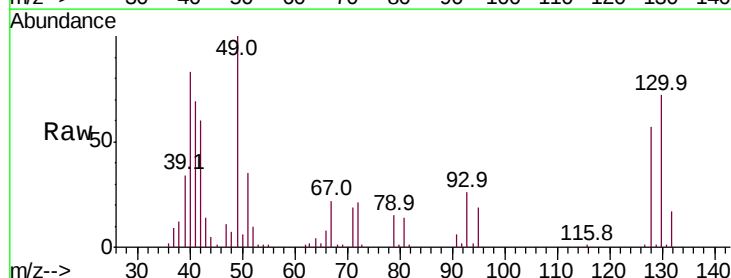
RT: 7.20 min Scan# 1687

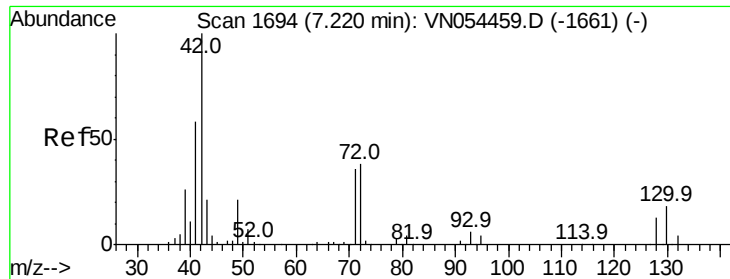
Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Tgt Ion:	49	Resp:	106014
Ion Ratio	Lower	Upper	
49	100		
129	1.2	0.0	4.6
130	71.7	76.7	115.1#





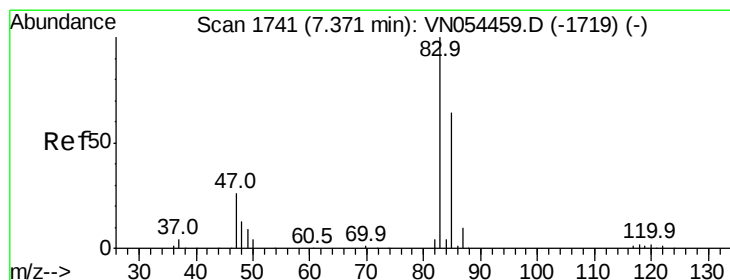
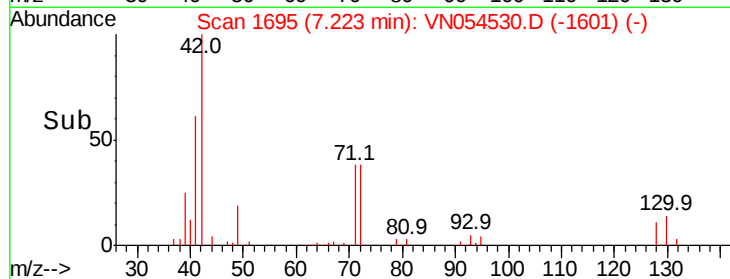
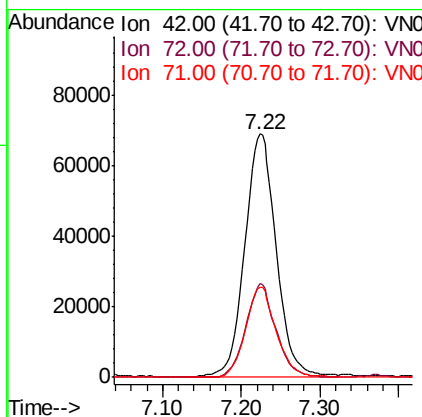
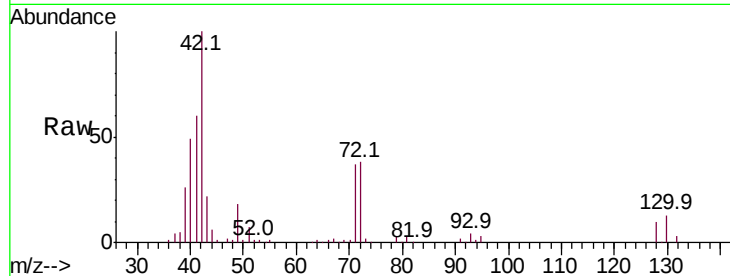
#29
Tetrahydrofuran
Concen: 130.435 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.0	37.8	56.6#
71	36.2	36.2	54.2

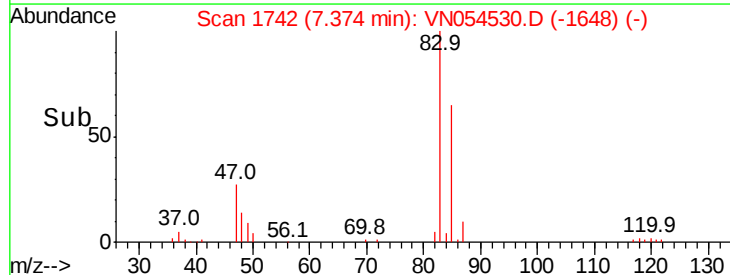
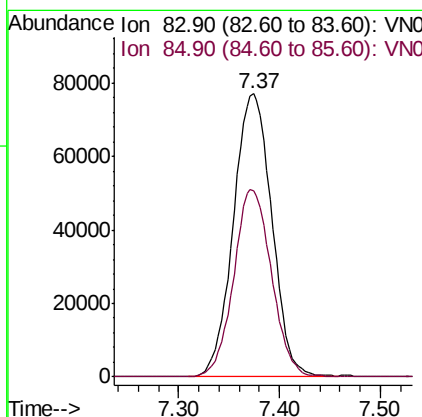
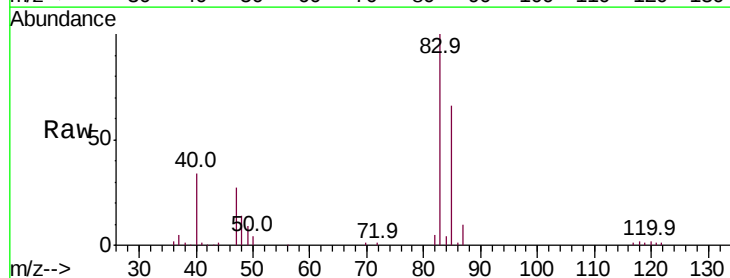
Manual Integrations
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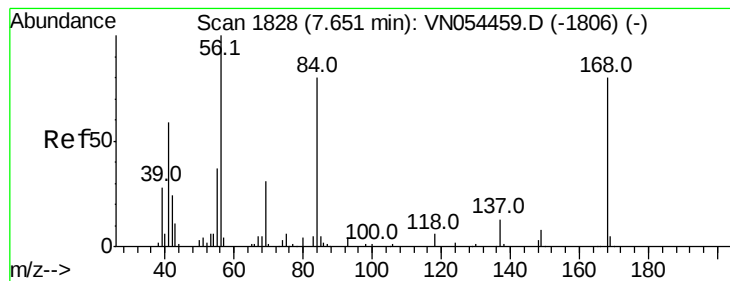
MMDadoda
3/22/2019 4:16:39 PM



#30
Chloroform
Concen: 22.668 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	52.2	78.4





#31

Cyclohexane

Concen: 21.172 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS02

Tot Ion: 56 Resp: 196214

Ion Ratio Lower Upper

56 100

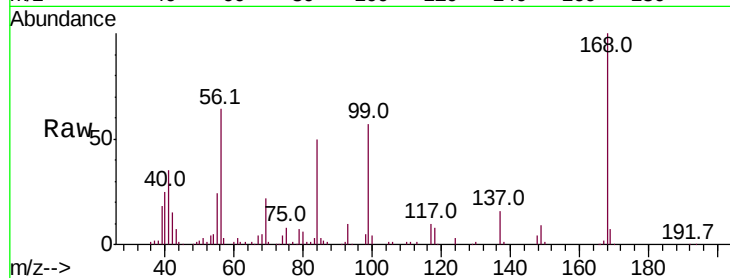
69 33.7 27.8 41.6

84 76.7 74.6 111.8

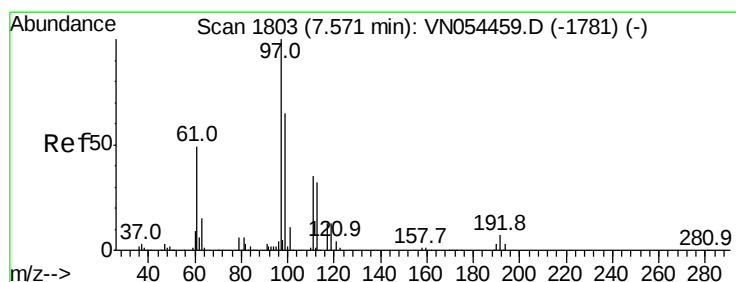
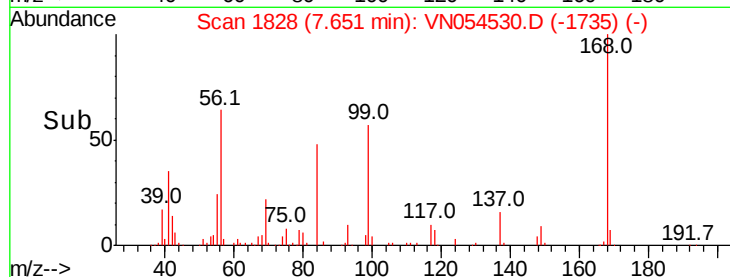
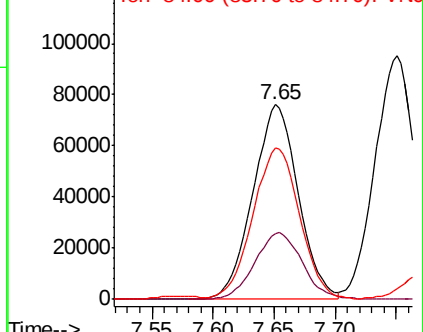
Manual Integrations
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Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 22.812 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

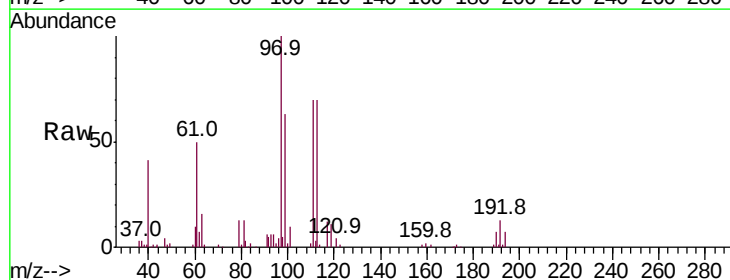
Tgt Ion: 97 Resp: 169087

Ion Ratio Lower Upper

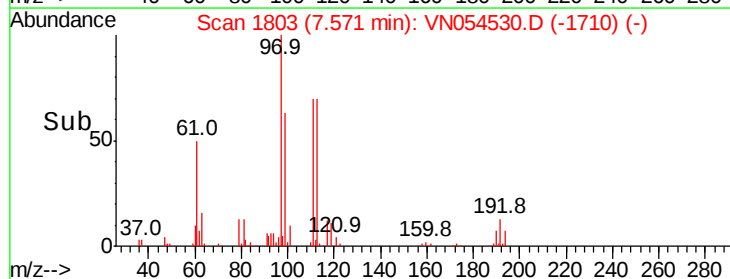
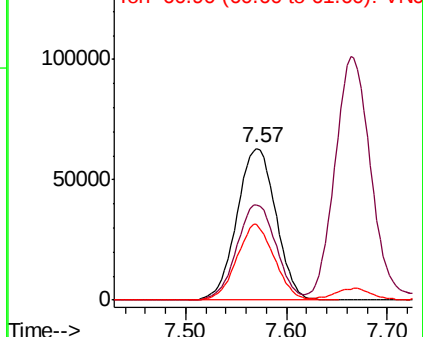
97 100

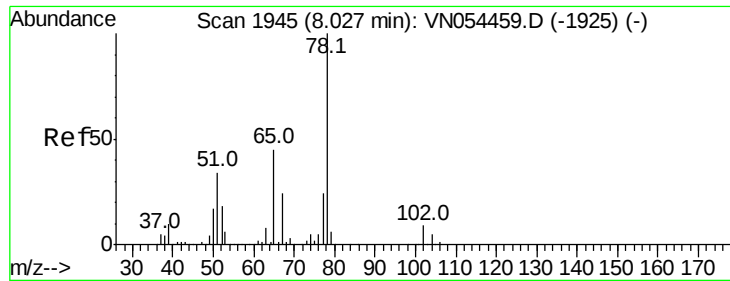
99 63.3 51.5 77.3

61 48.0 33.6 50.4



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





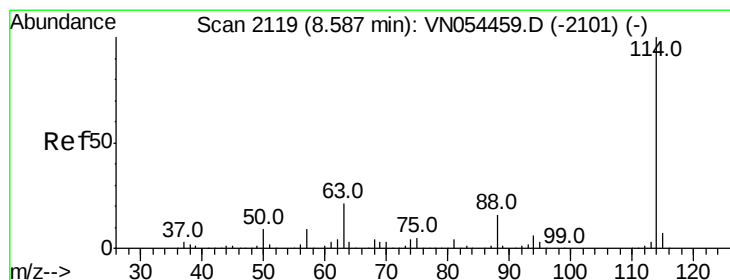
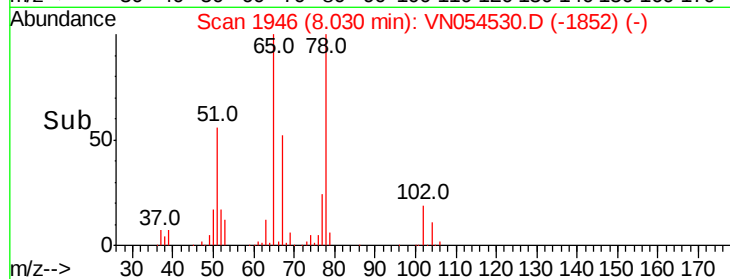
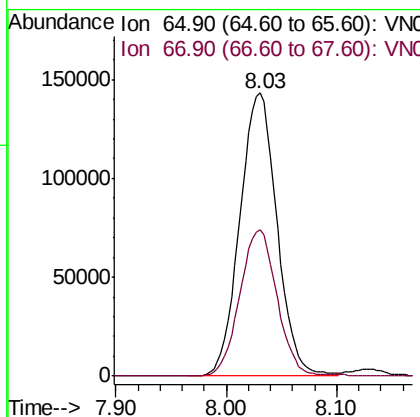
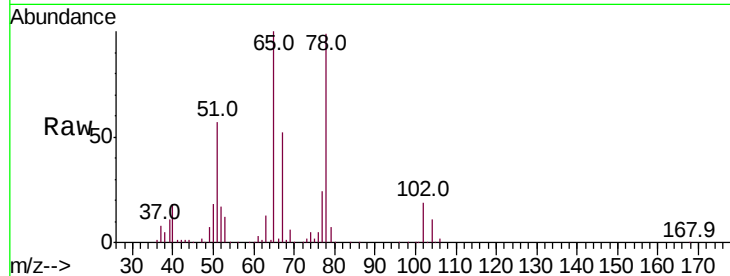
#33
 1,2-Dichloroethane-d4
 Concen: 56.330 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN054530.D
 Acq: 22 Mar 2019 00:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBS02

Tot Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	104.6

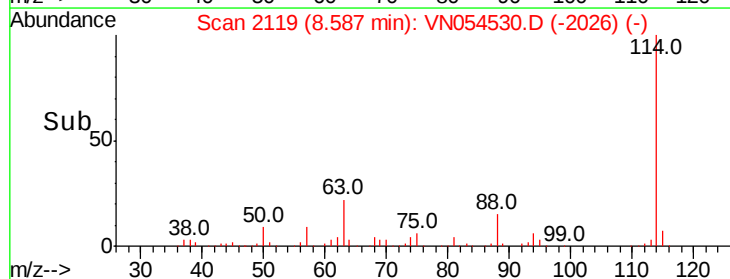
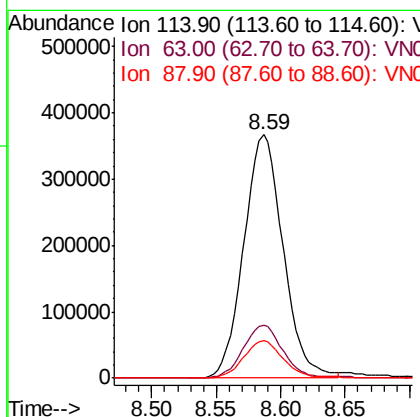
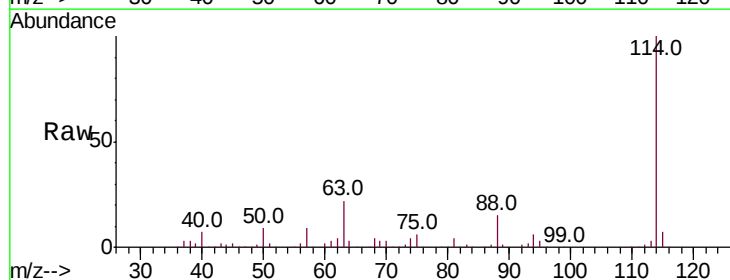
Manual Integrations
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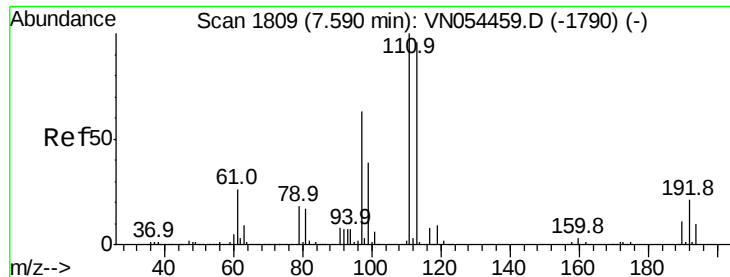
MMDadoda
 3/22/2019 4:16:39 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054530.D
 Acq: 22 Mar 2019 00:53

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	35.2
88	15.5	0.0	30.2





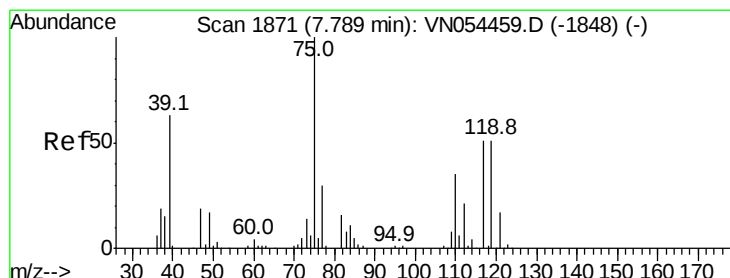
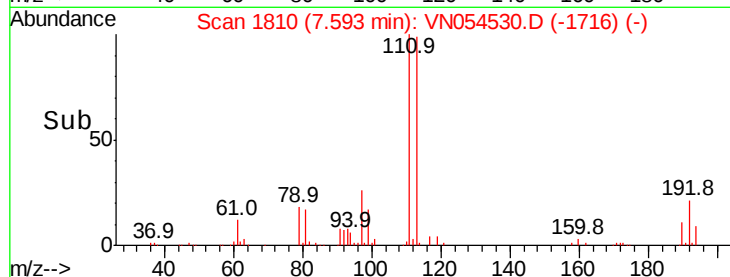
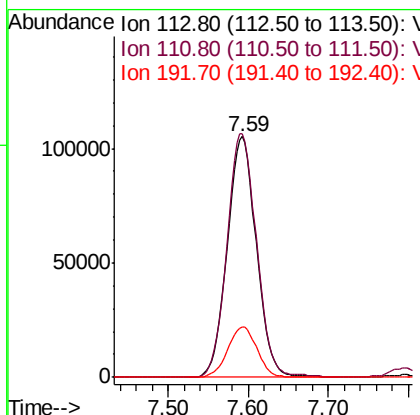
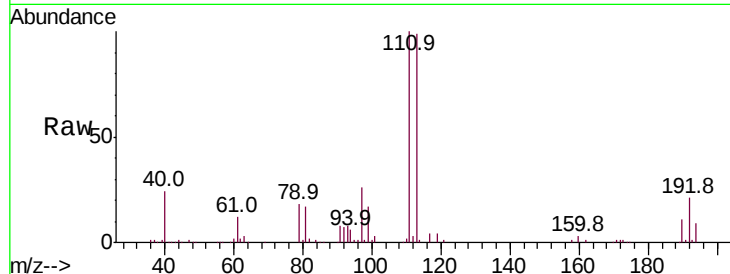
#35
 Dibromofluoromethane
 Concen: 52.035 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054530.D
 Acq: 22 Mar 2019 00:53

Instrument :
 MSVOA_N
 ClientSampled :
 VN0321WBS02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	261721		
111	101.8	82.2	123.4	
192	21.0	19.2	28.8	

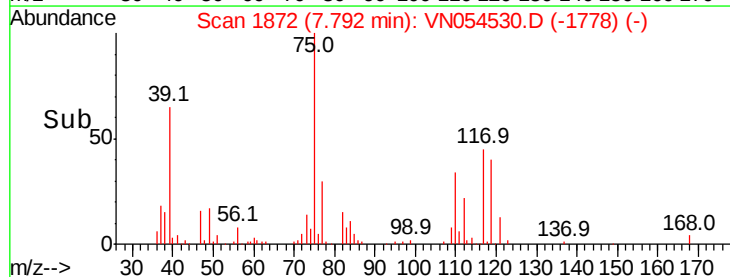
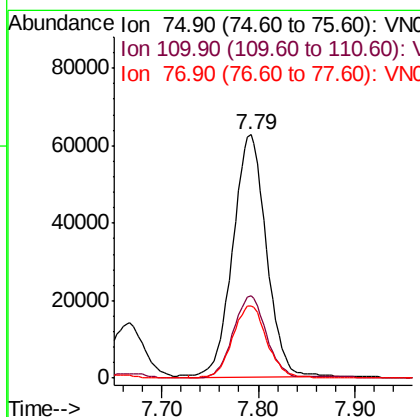
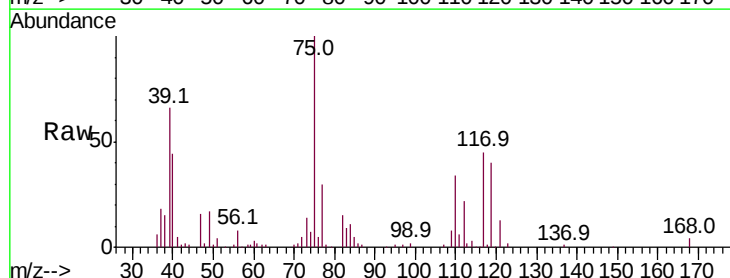
Manual Integrations
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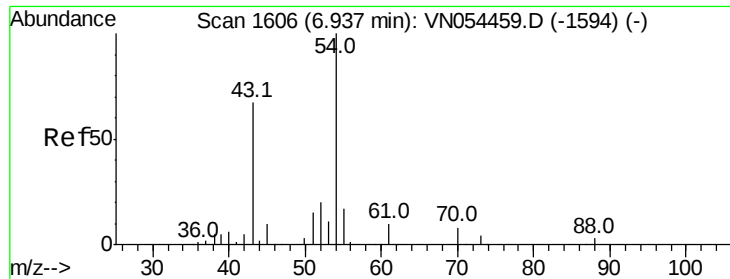
MMDadoda
 3/22/2019 4:16:39 PM



#36
 1,1-Dichloropropene
 Concen: 20.670 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN054530.D
 Acq: 22 Mar 2019 00:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	150884		
110	33.6	19.1	57.5	
77	30.5	25.0	37.4	





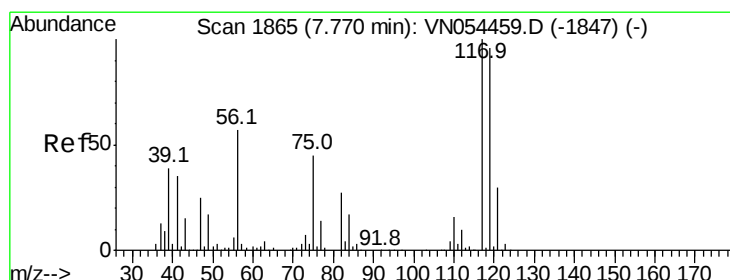
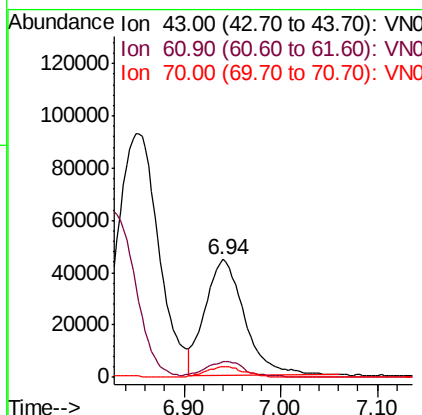
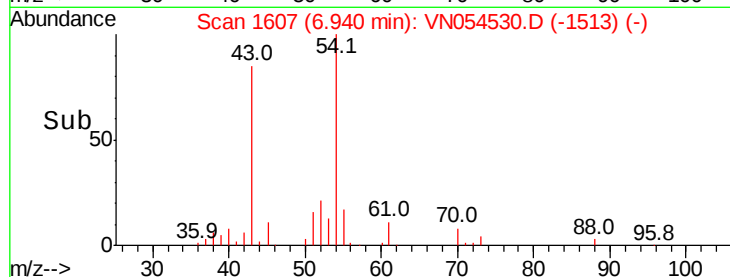
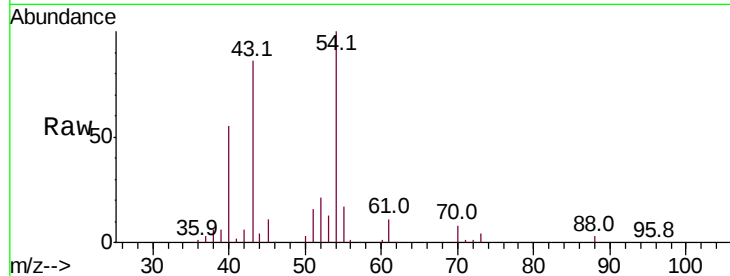
#37
Ethyl Acetate
Concen: 24.250 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.4	11.8	17.6
70	9.2	8.4	12.6

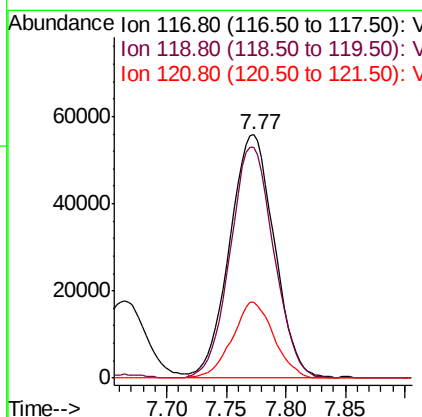
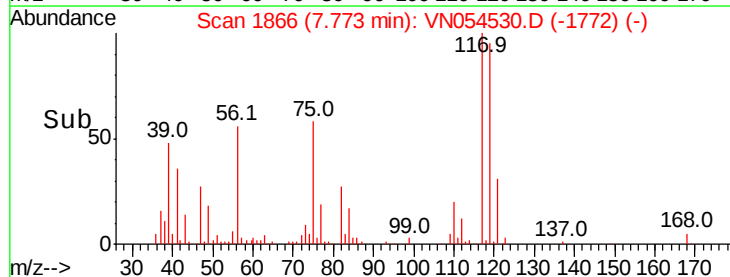
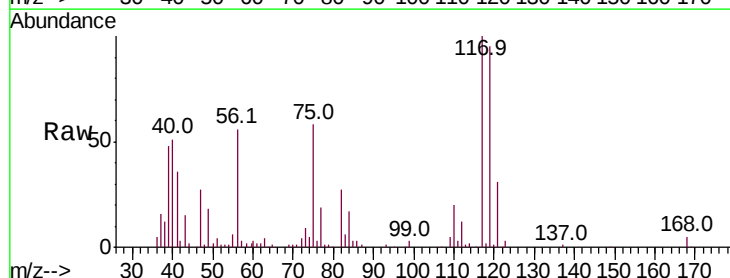
Manual Integrations
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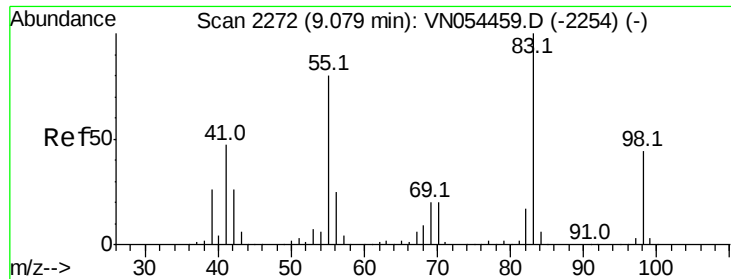
MMDadoda
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#38
Carbon Tetrachloride
Concen: 20.306 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.8	76.3	114.5
121	31.1	24.6	36.8





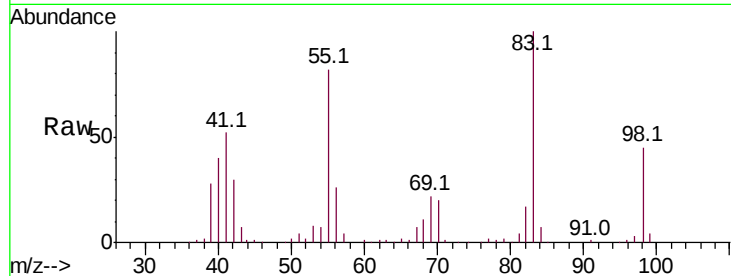
#39
Methvlcvclohexane
Concen: 19.069 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS02

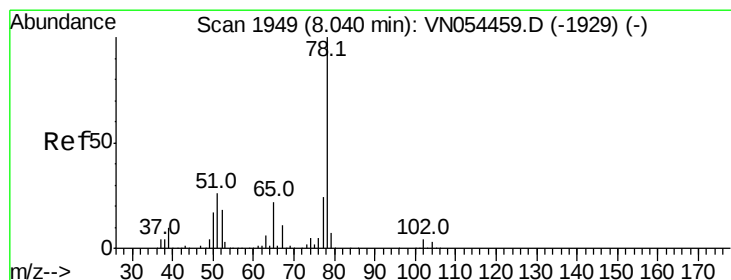
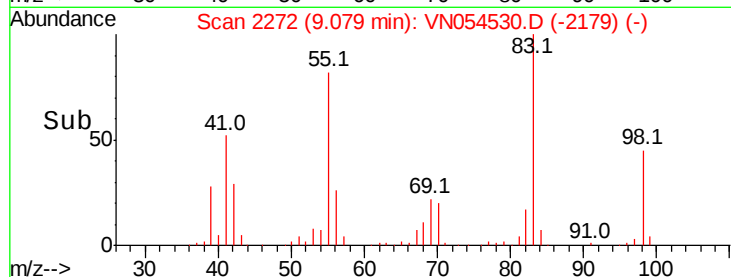
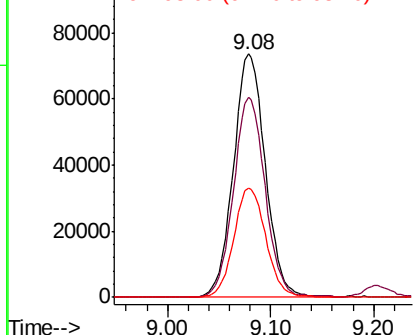
Tot Ion	Ratio	Lower	Upper
83	100		
55	82.2	56.6	84.8
98	45.0	38.4	57.6

Manual Integrations
APPROVED

MMDadoda
3/22/2019 4:16:39 PM

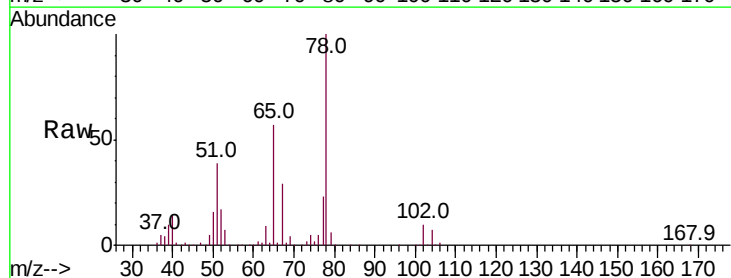


Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 98.00 (97.70 to 98.70): VNO

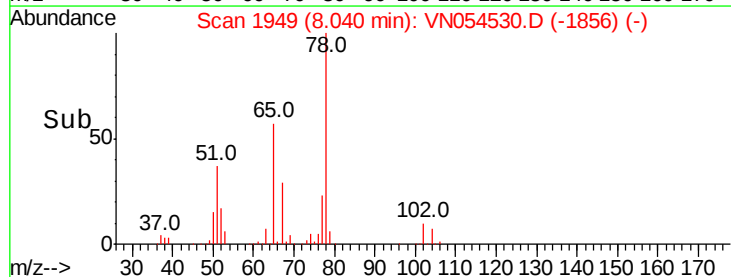
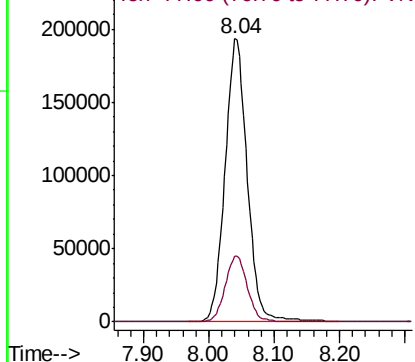


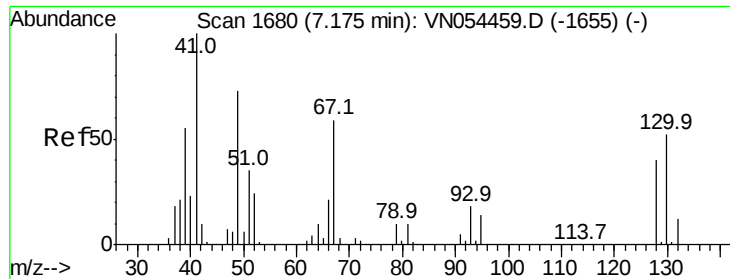
#40
Benzene
Concen: 21.825 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.1	28.7



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





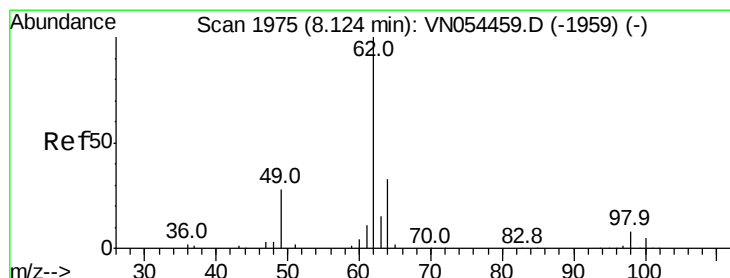
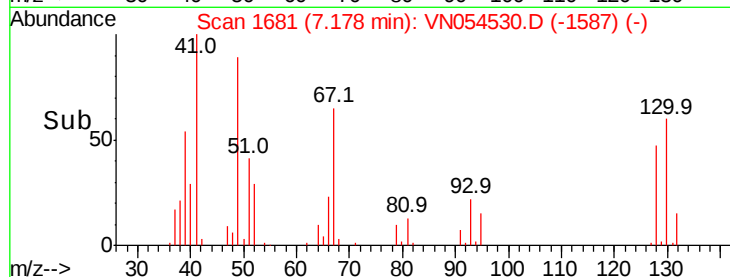
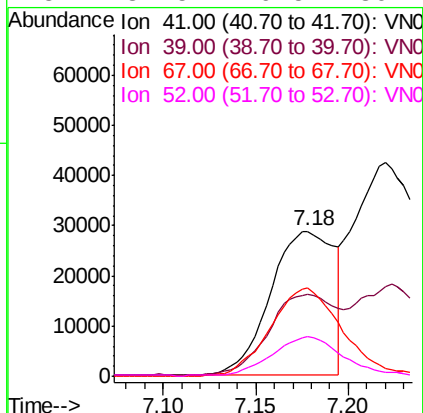
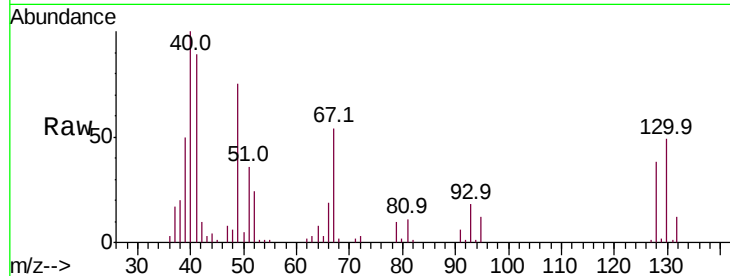
#41
Methacrylonitrile
Concen: 21.689 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS02

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	60.1	46.8	70.2	
67	70.2	67.0	100.4	
52	31.5	26.5	39.7	

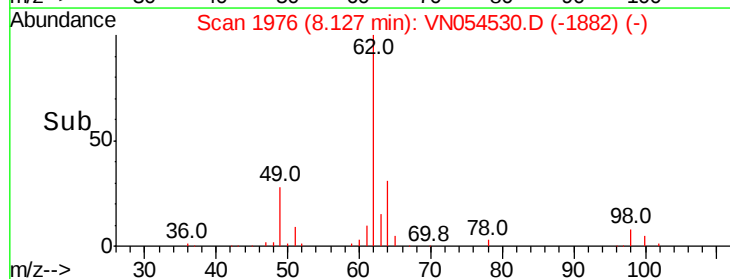
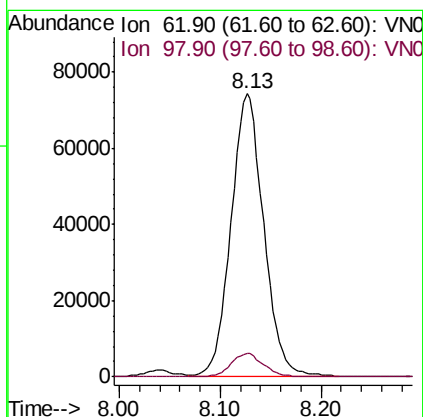
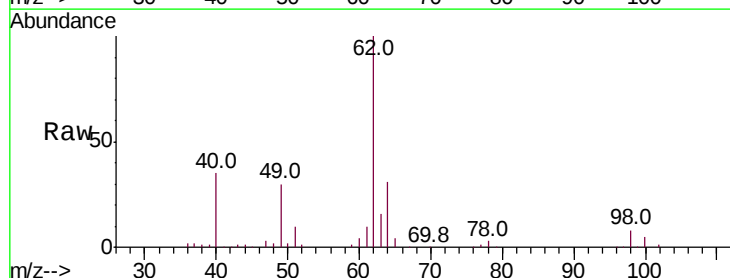
Manual Integrations
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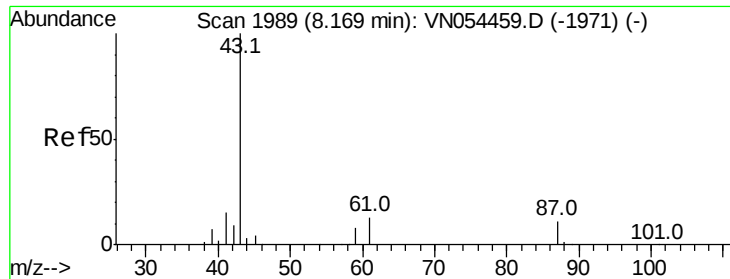
MMDadoda
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#42
1,2-Dichloroethane
Concen: 21.943 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.3	0.0	18.4	





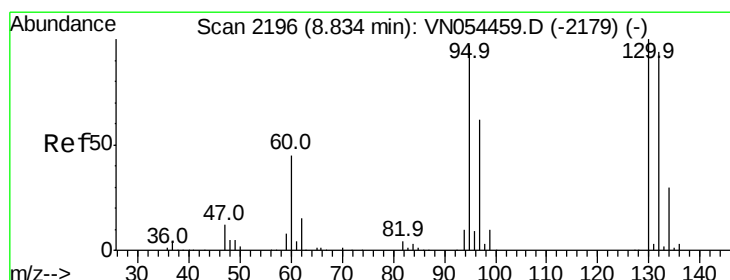
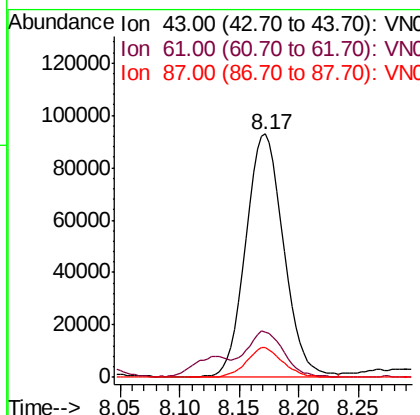
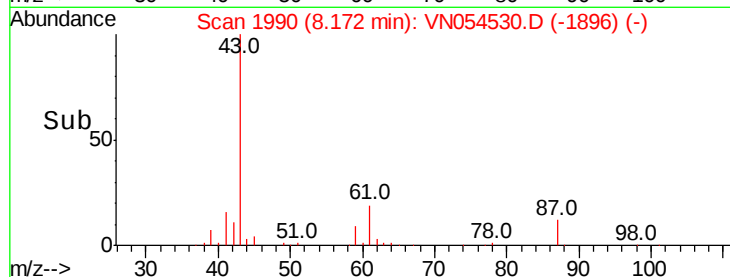
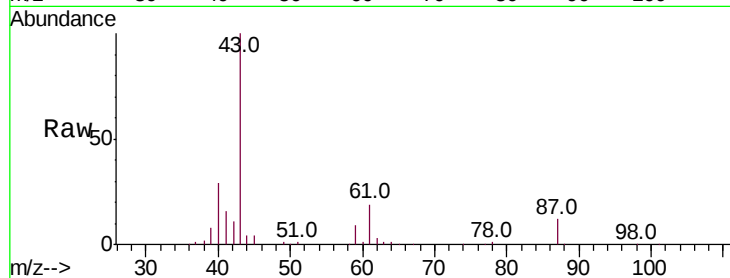
#43
Isopropyl Acetate
Concen: 23.433 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.9	15.8	23.8
87	11.7	12.0	18.0

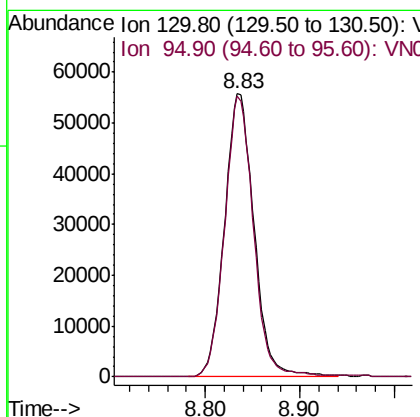
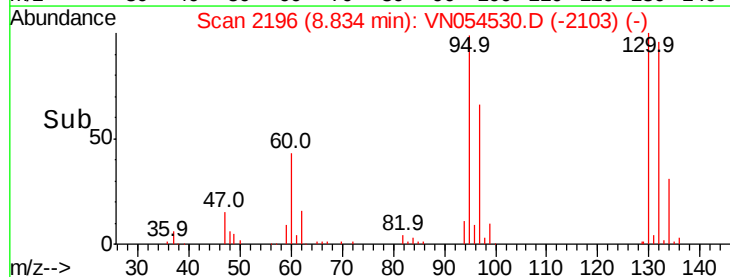
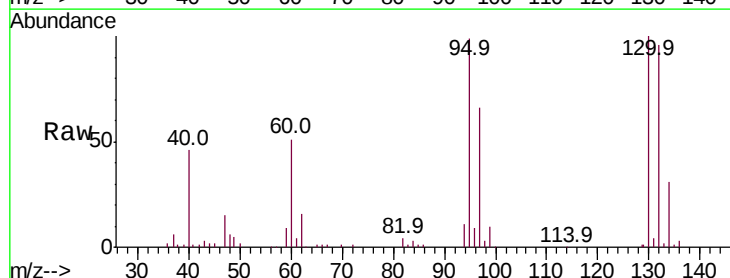
Manual Integrations
APPROVED

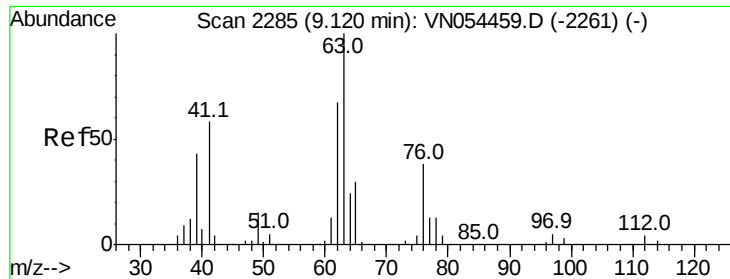
MMDadoda
3/22/2019 4:16:39 PM



#44
Trichloroethene
Concen: 20.855 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.0	0.0	185.2





#45

1,2-Dichloropropane

Concen: 22.538 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS02

Tot Ion: 63 Resp: 126325

Ion Ratio Lower Upper

63 100

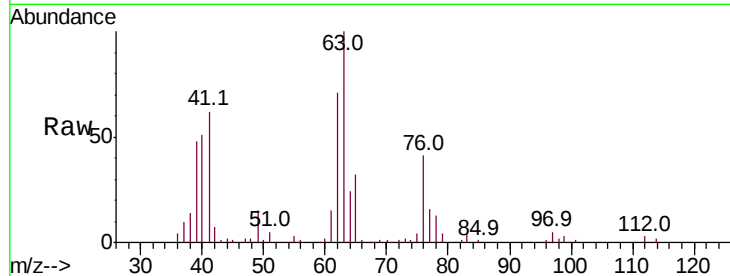
65 31.9 25.0 37.6

Manual Integrations

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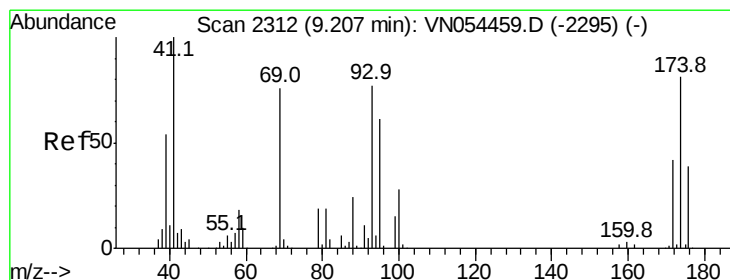
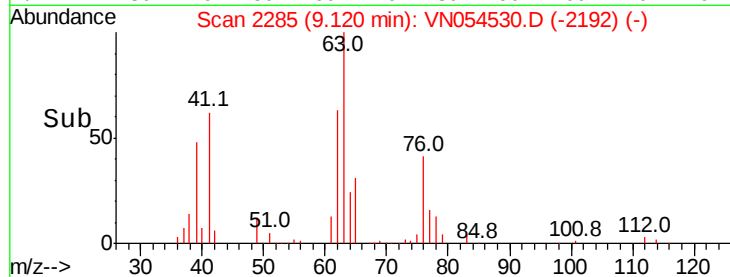
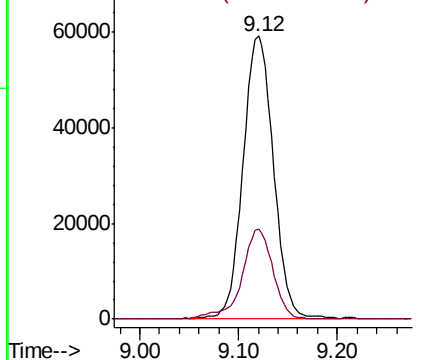
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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 22.126 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

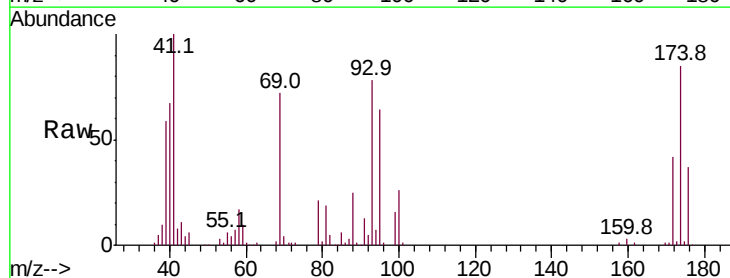
Tgt Ion: 93 Resp: 73984

Ion Ratio Lower Upper

93 100

95 83.9 66.7 100.1

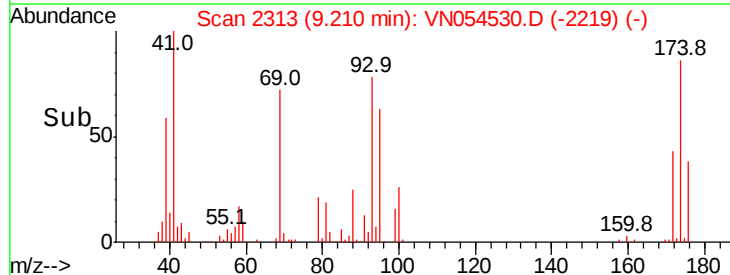
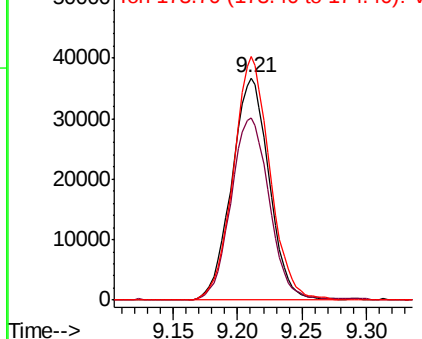
174 107.0 98.5 147.7

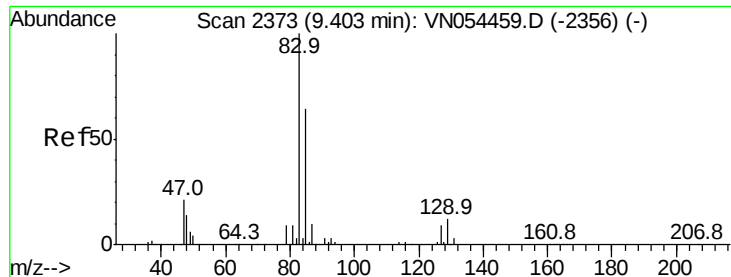


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 21.813 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

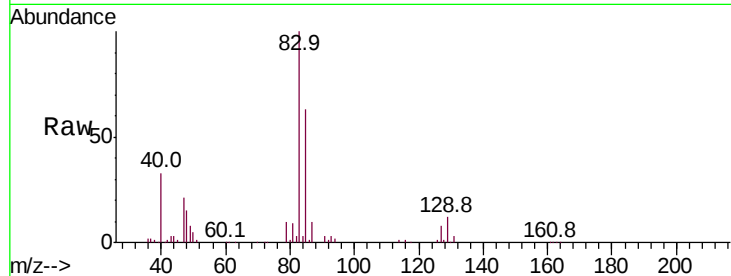
ClientSampleId :

VN0321WBS02

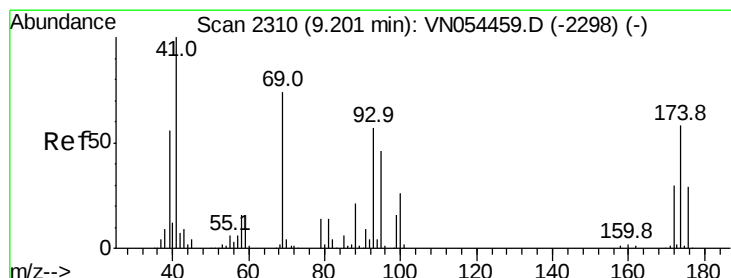
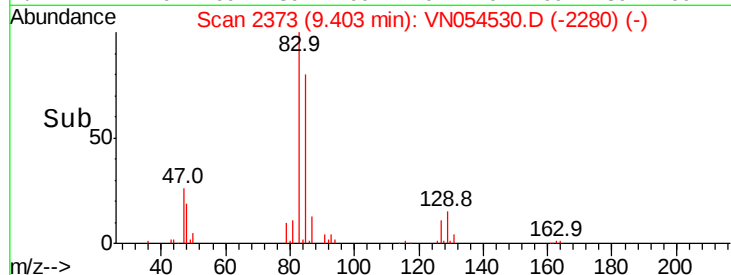
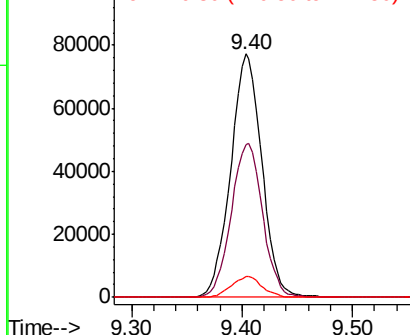
Tot Ion:	83	Resp:	151373
Ion	Ratio	Lower	Upper
83	100		
85	62.6	52.8	79.2
127	8.3	7.4	11.2

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 22.750 ug/l

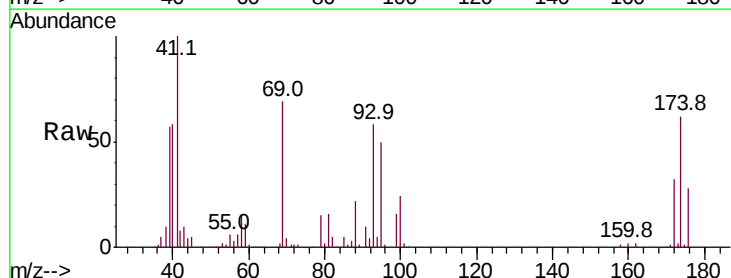
RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

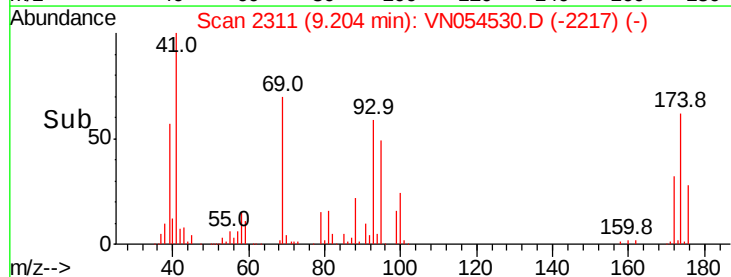
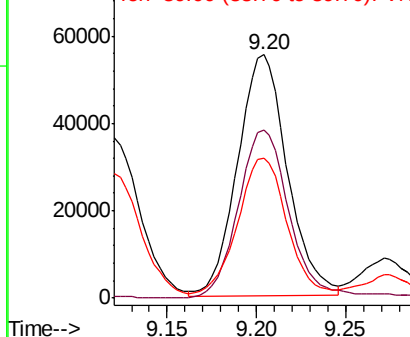
Lab File: VN054530.D

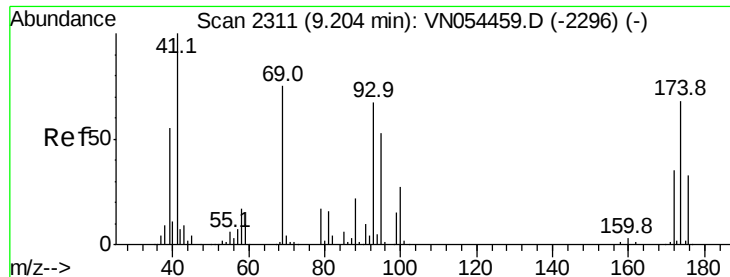
Acq: 22 Mar 2019 00:53

Tgt Ion:	41	Resp:	108267
Ion	Ratio	Lower	Upper
41	100		
69	73.1	72.6	108.8
39	57.3	47.5	71.3



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





#49

1,4-Dioxane

Concen: 469.088 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS02

Tot Ion: 88 Resp: 24957

Ion Ratio Lower Upper

88 100

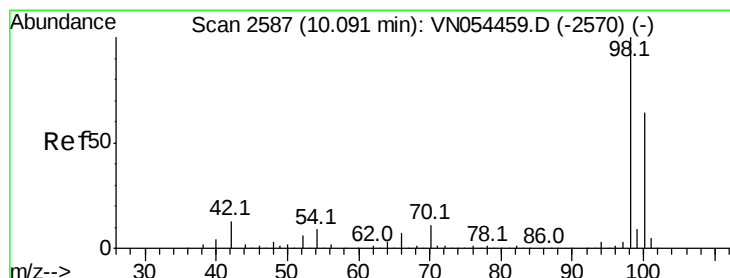
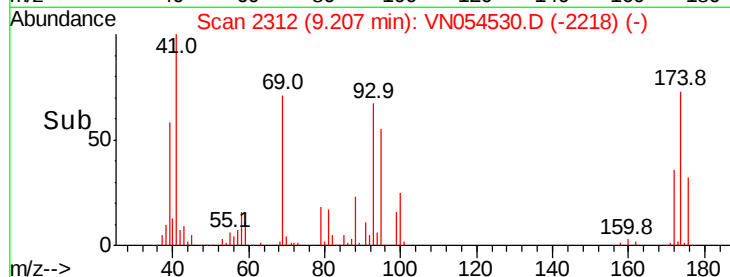
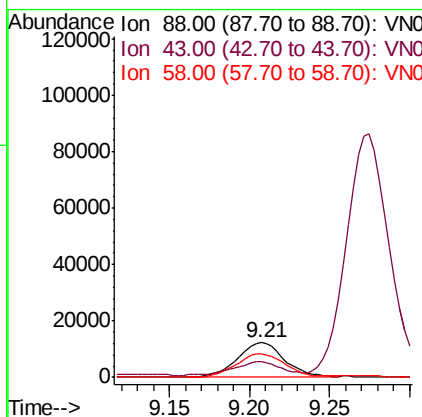
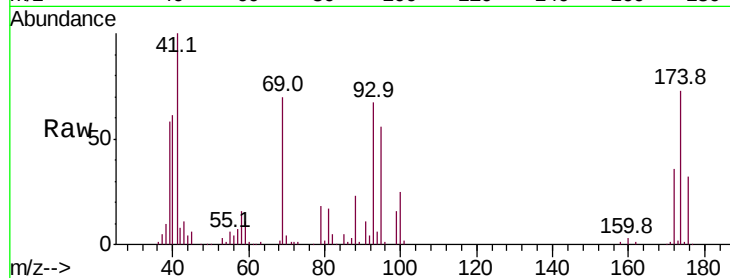
43 38.1 24.1 36.1#

58 71.7 50.8 76.2

Manual Integrations
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#50

Toluene-d8

Concen: 50.549 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054530.D

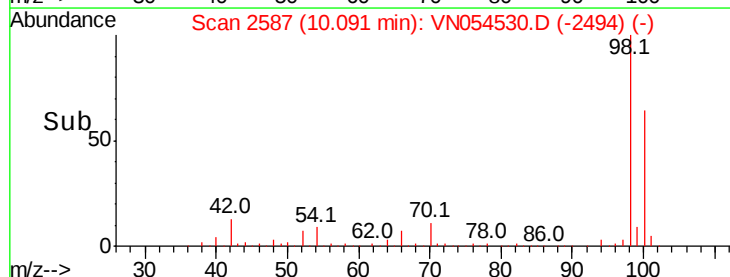
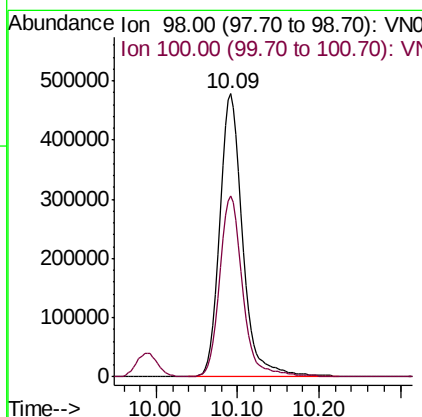
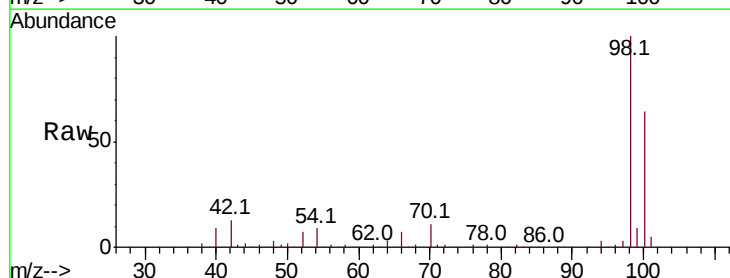
Acq: 22 Mar 2019 00:53

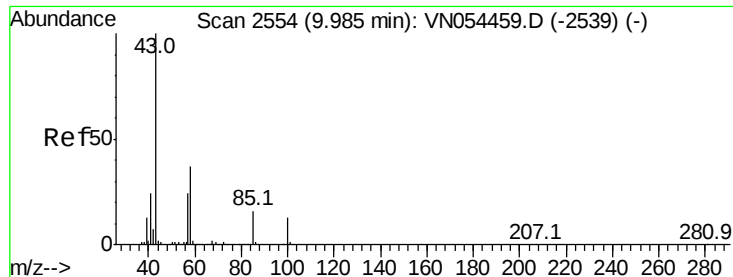
Tgt Ion: 98 Resp: 955800

Ion Ratio Lower Upper

98 100

100 64.0 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 122.105 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS02

Tot Ion: 43 Resp: 593350

Ion Ratio Lower Upper

43 100

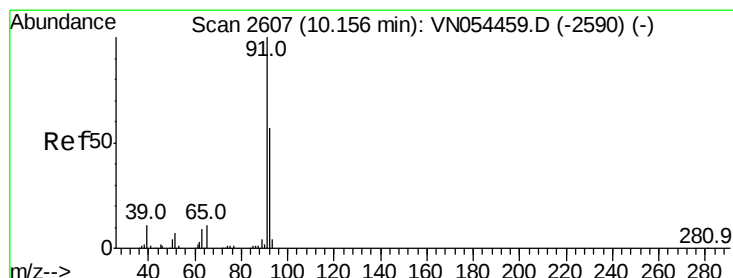
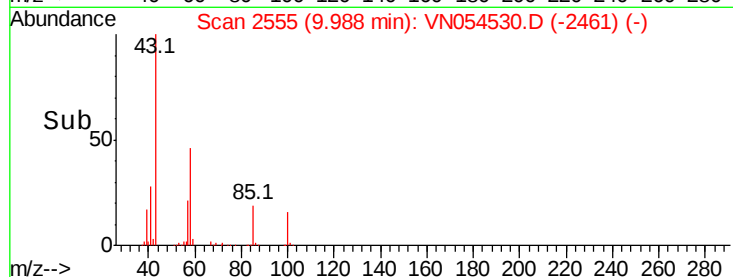
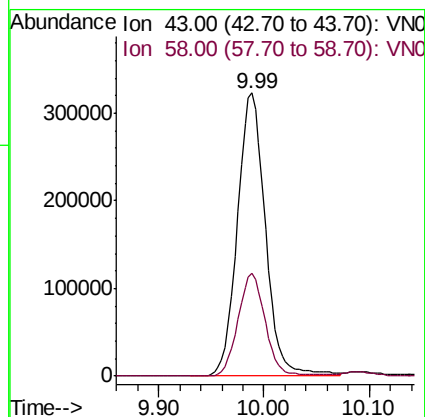
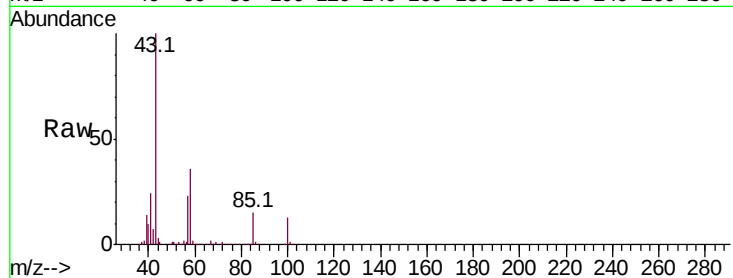
58 35.3 31.8 47.6

Manual Integrations

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#52

Toluene

Concen: 20.844 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054530.D

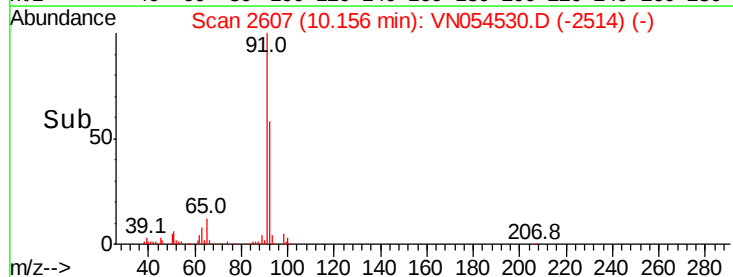
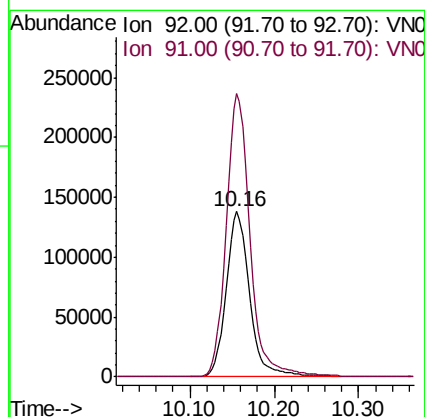
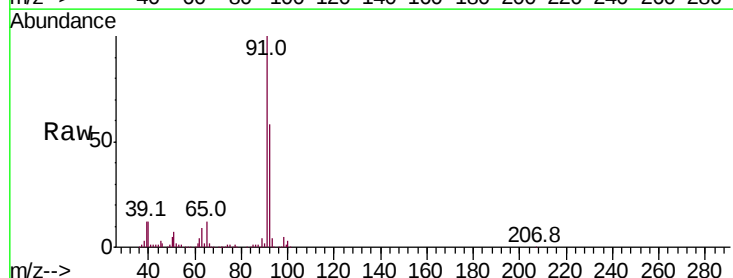
Acq: 22 Mar 2019 00:53

Tgt Ion: 92 Resp: 267604

Ion Ratio Lower Upper

92 100

91 173.5 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 19.057 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS02

Tot Ion: 75 Resp: 128921

Ion Ratio Lower Upper

75 100

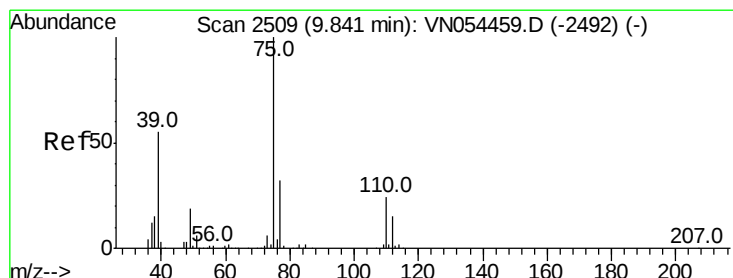
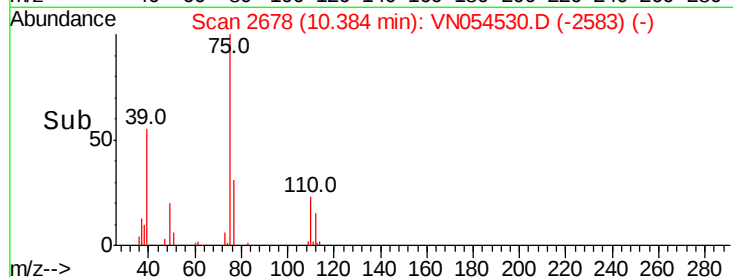
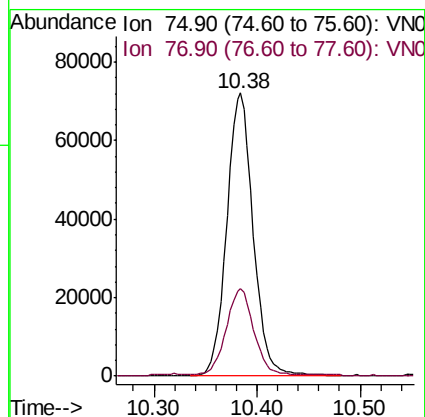
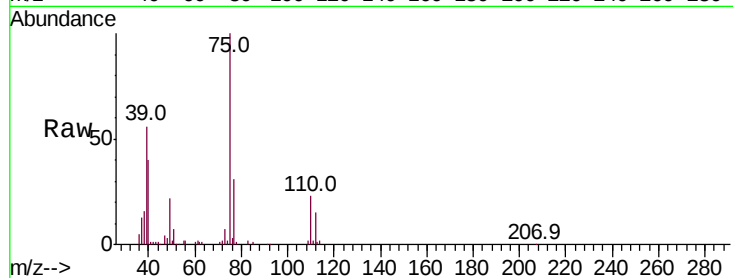
77 30.7 25.8 38.8

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 20.183 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

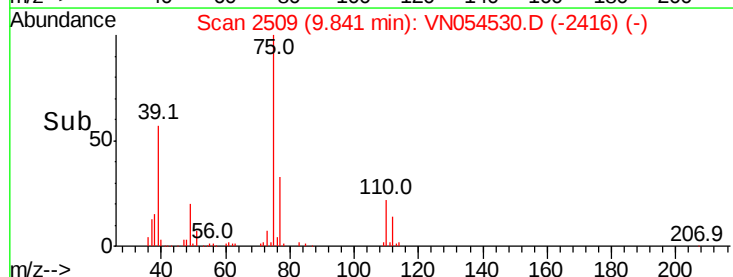
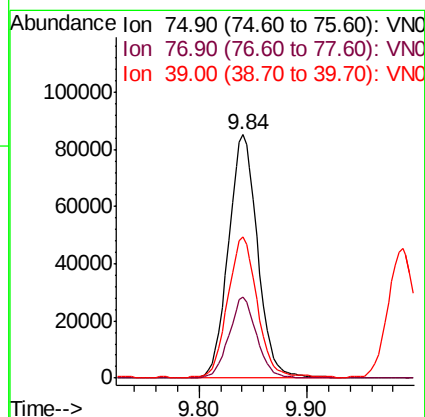
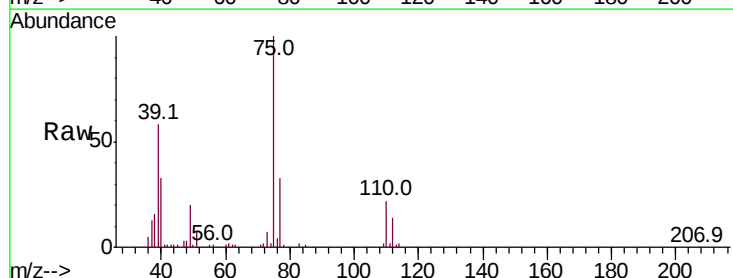
Tgt Ion: 75 Resp: 160600

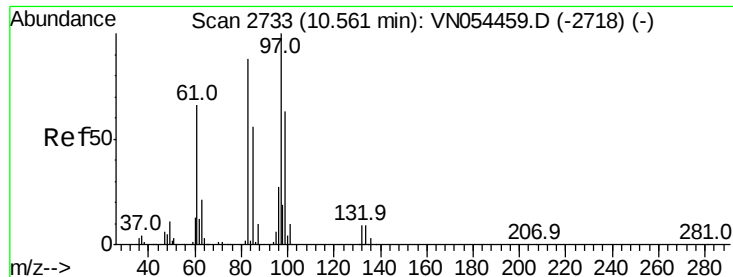
Ion Ratio Lower Upper

75 100

77 33.3 25.4 38.0

39 57.6 37.2 55.8#





#55

1,1,2-Trichloroethane

Concen: 22.419 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

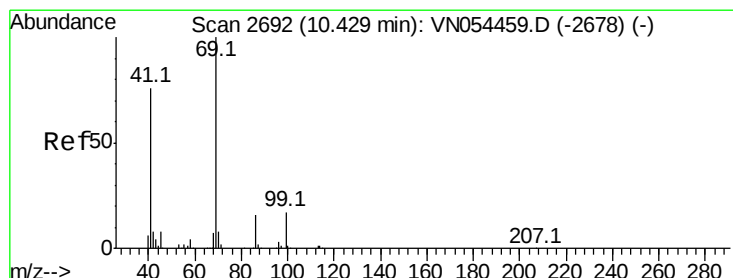
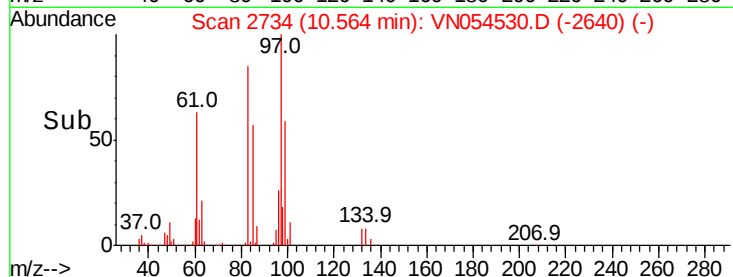
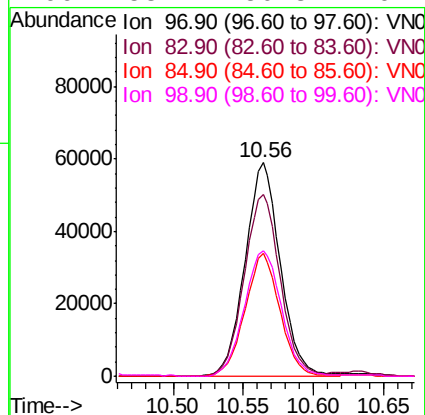
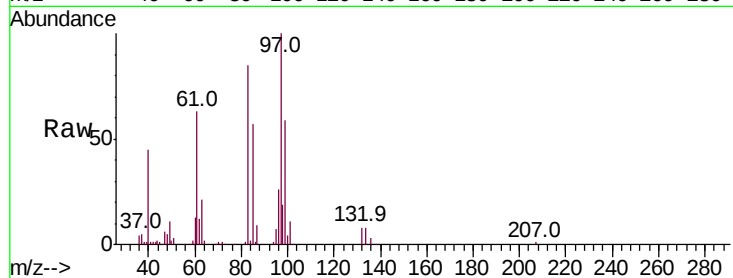
ClientSampleId :

VN0321WBS02

Tot Ion:	97	Resp:	103460
Ion	Ratio	Lower	Upper
97	100		
83	85.2	66.6	100.0
85	57.3	44.4	66.6
99	58.7	50.8	76.2

Manual Integrations
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#56

Ethyl methacrylate

Concen: 21.376 ug/l

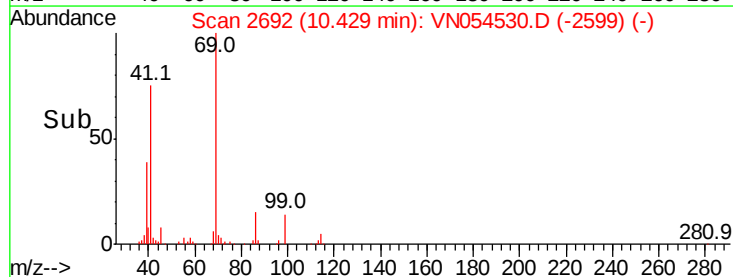
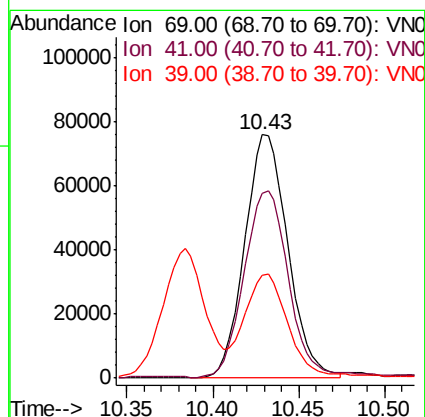
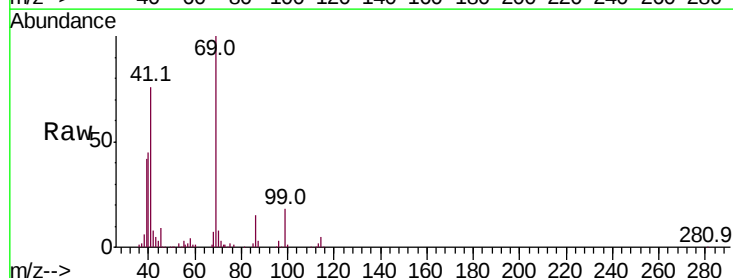
RT: 10.43 min Scan# 2692

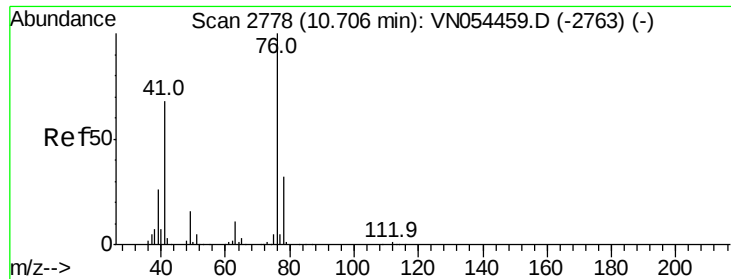
Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Tgt Ion:	69	Resp:	132404
Ion	Ratio	Lower	Upper
69	100		
41	79.4	49.4	74.2#
39	41.9	28.3	42.5





#57

1,3-Dichloropropane

Concen: 22.567 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampled :

VN0321WBS02

Tot Ion: 76 Resp: 181038

Ion Ratio Lower Upper

76 100

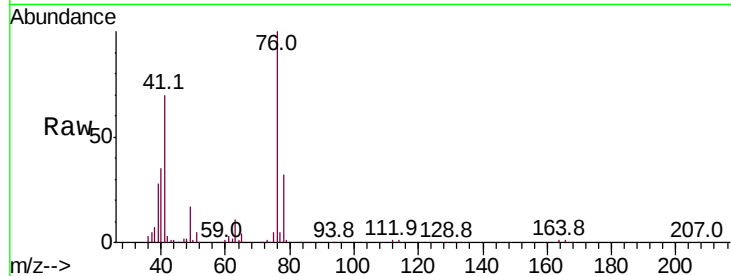
78 32.2 25.7 38.5

Manual Integrations

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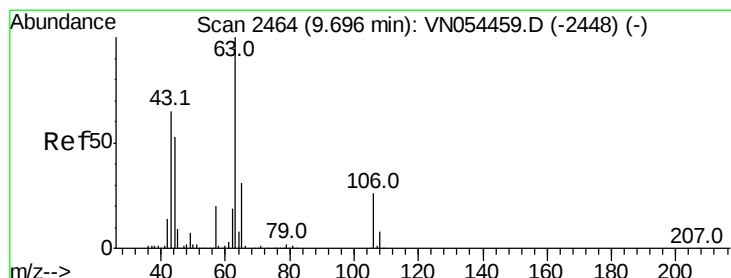
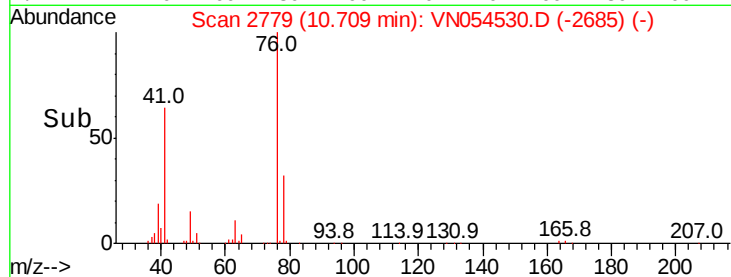
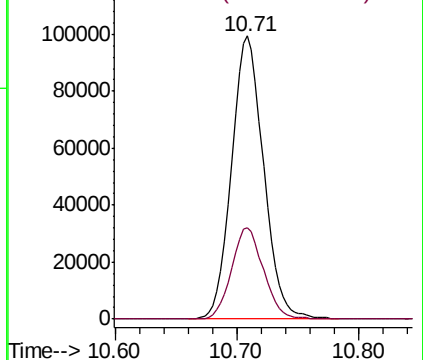
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 104.424 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN054530.D

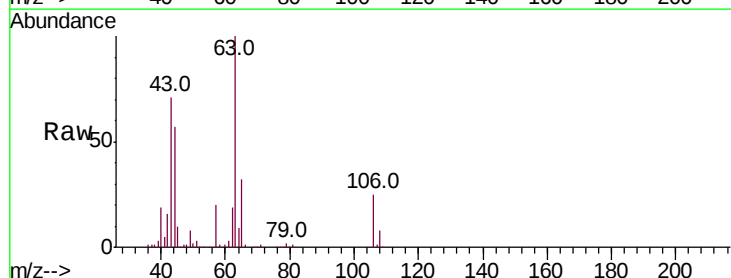
Acq: 22 Mar 2019 00:53

Tgt Ion: 63 Resp: 266346

Ion Ratio Lower Upper

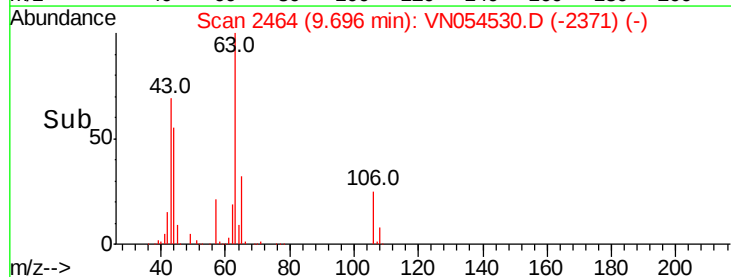
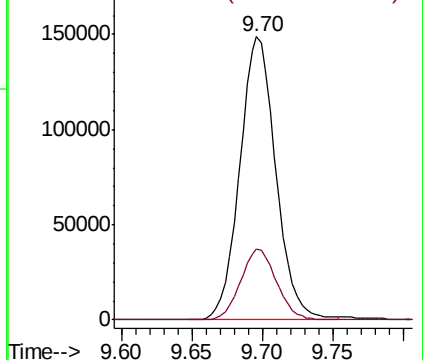
63 100

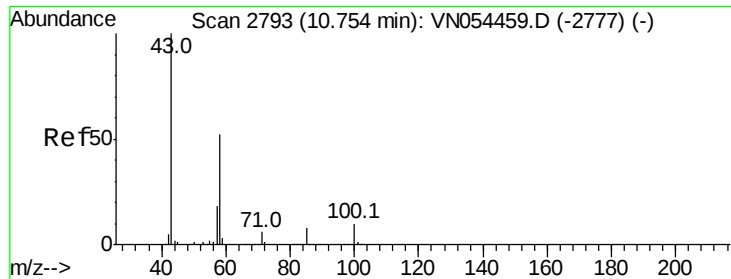
106 25.1 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





#59

2-Hexanone

Concen: 114.321 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS02

Tot Ion: 43 Resp: 362864

Ion Ratio Lower Upper

43 100

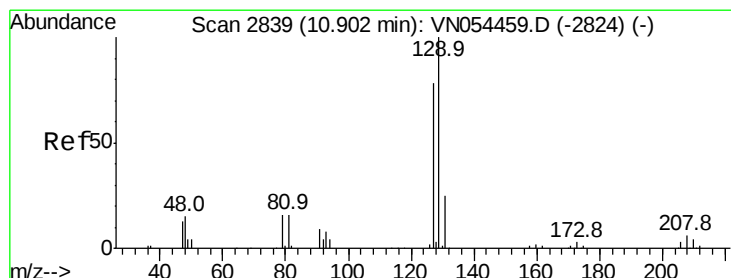
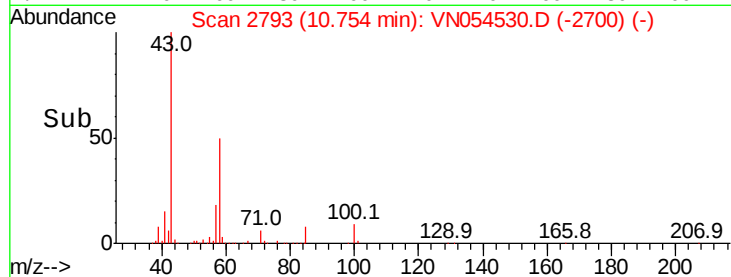
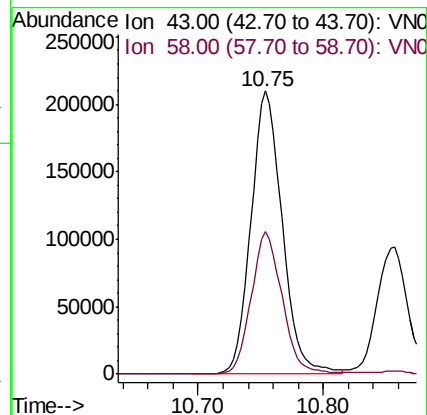
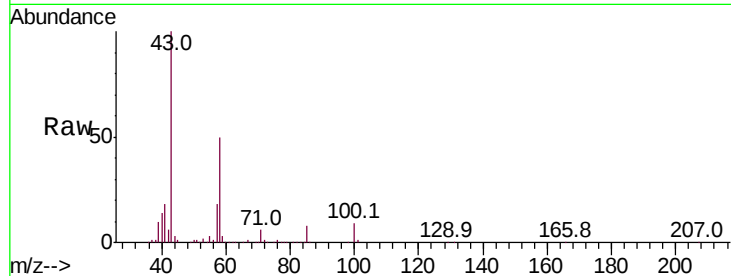
58 50.2 28.0 83.9

Manual Integrations

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#60

Dibromochloromethane

Concen: 20.796 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN054530.D

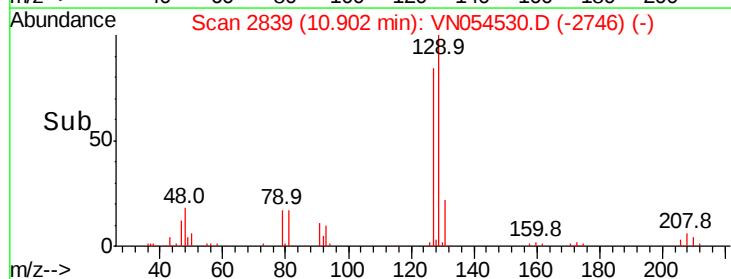
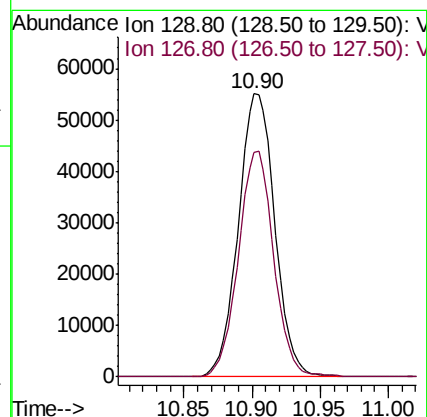
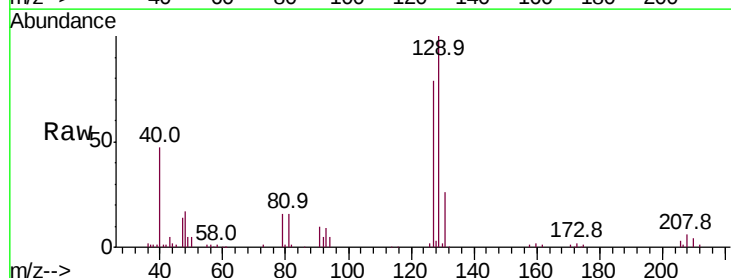
Acq: 22 Mar 2019 00:53

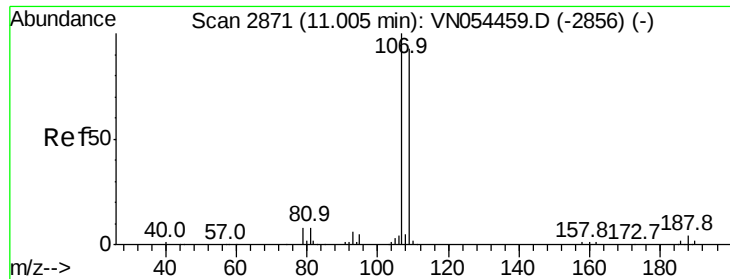
Tgt Ion: 129 Resp: 102124

Ion Ratio Lower Upper

129 100

127 77.4 38.6 115.8





#61

1,2-Dibromoethane

Concen: 21.832 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS02

Tot Ion: 107 Resp: 99606

Ion Ratio Lower Upper

107 100

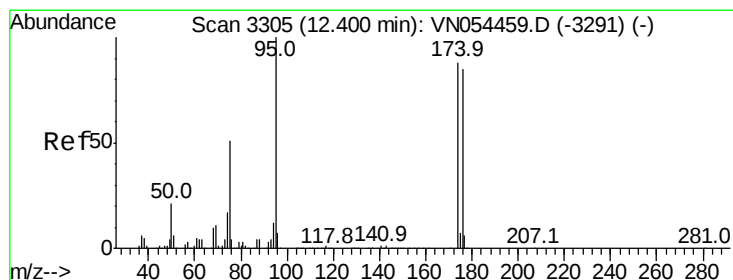
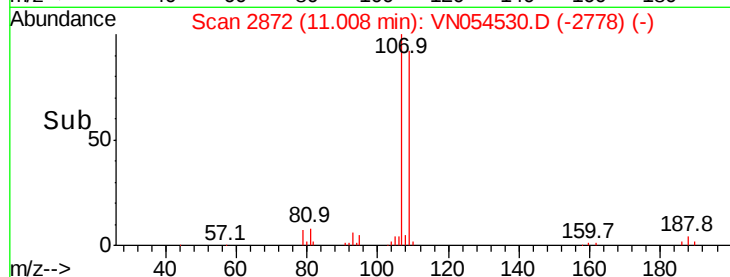
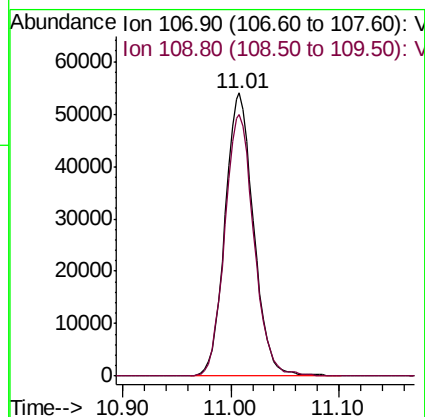
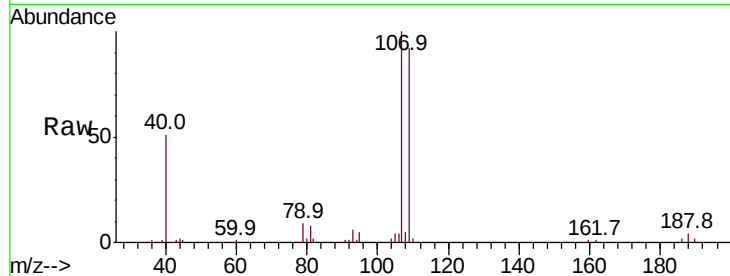
109 94.3 75.9 113.9

Manual Integrations

APPROVED

MMDadoda

3/22/2019 4:16:39 PM



#62

4-Bromofluorobenzene

Concen: 48.432 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

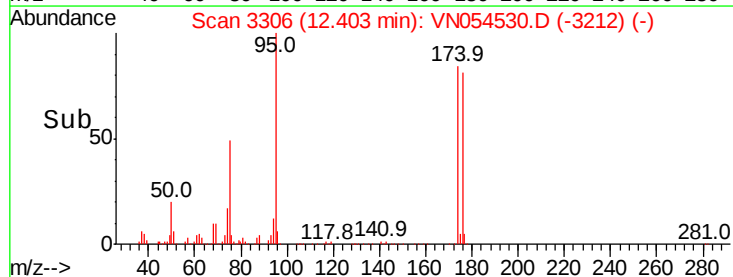
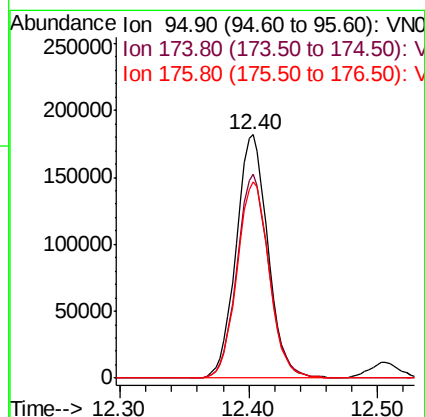
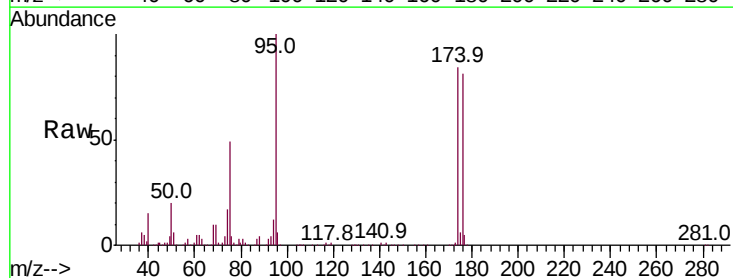
Tgt Ion: 95 Resp: 311626

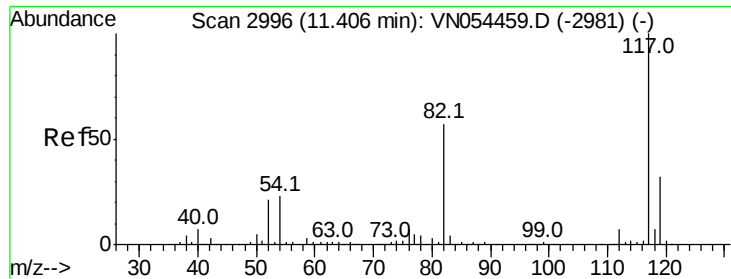
Ion Ratio Lower Upper

95 100

174 84.2 0.0 191.0

176 81.6 0.0 187.4





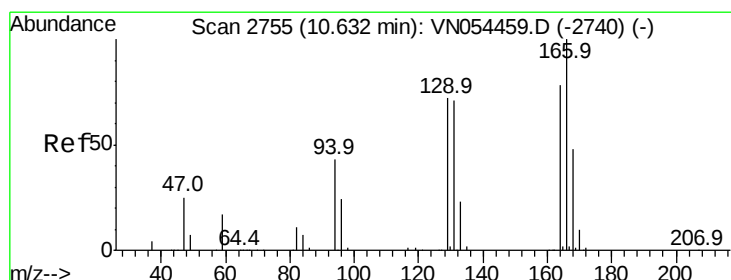
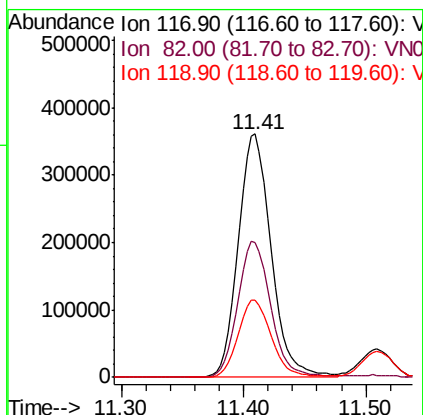
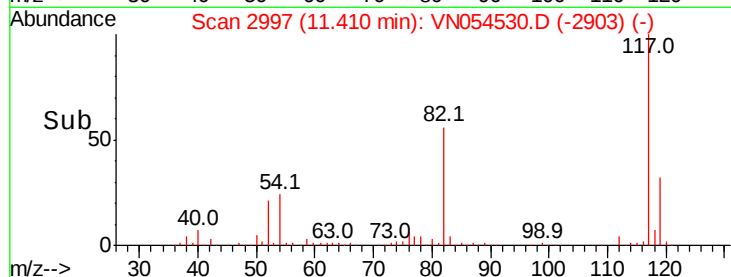
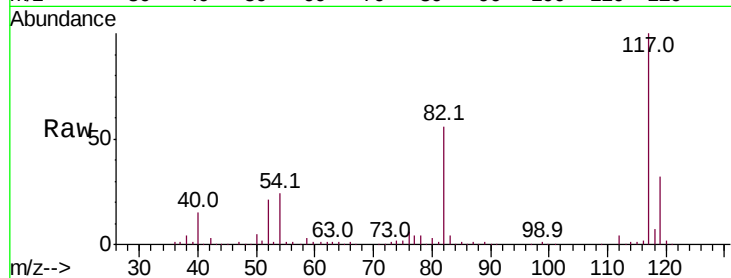
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS02

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.6	40.0	60.0
119	31.9	25.8	38.6

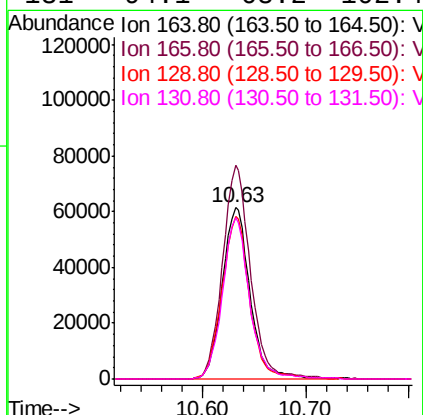
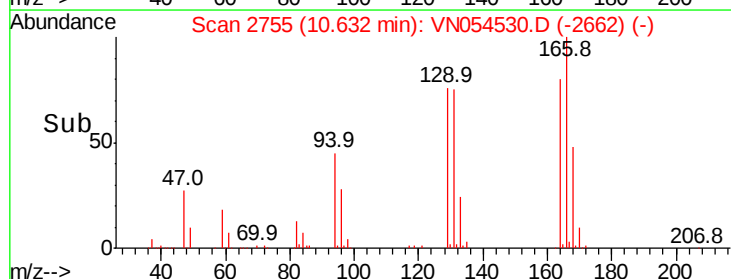
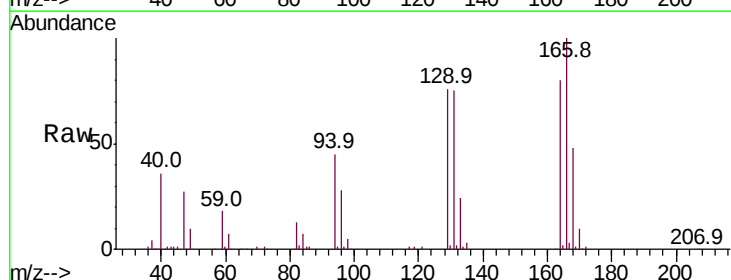
Manual Integrations
APPROVED

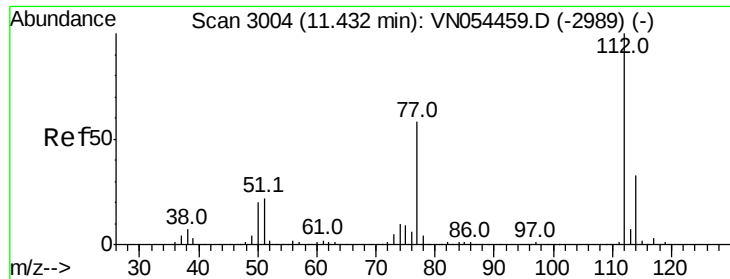
MMDadoda
3/22/2019 4:16:39 PM



#64
Tetrachloroethene
Concen: 20.757 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.7	103.9	155.9
129	94.6	71.1	106.7
131	94.1	68.2	102.4





#65

Chlorobenzene

Concen: 20.344 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS02

Tot Ion:112 Resp: 278040

Ion Ratio Lower Upper

112 100

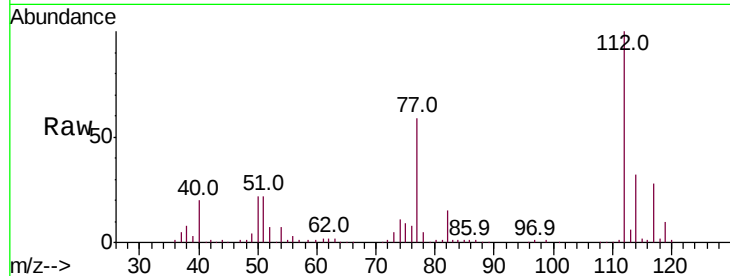
114 32.2 25.9 38.9

Manual Integrations

APPROVED

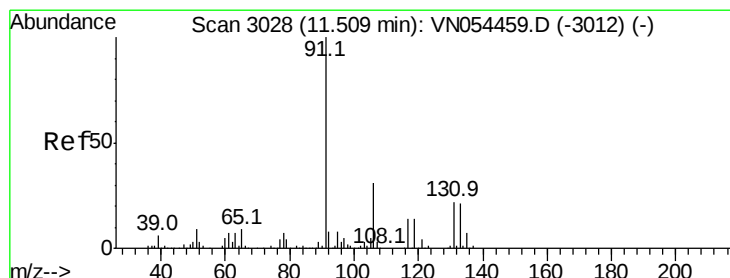
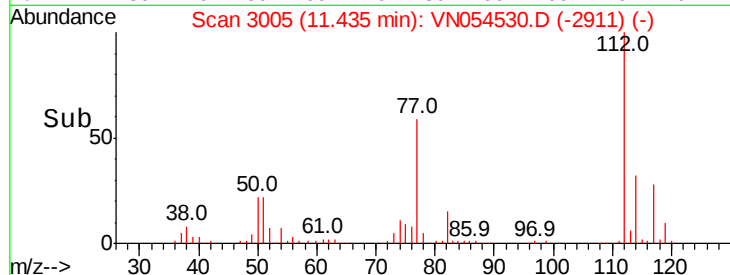
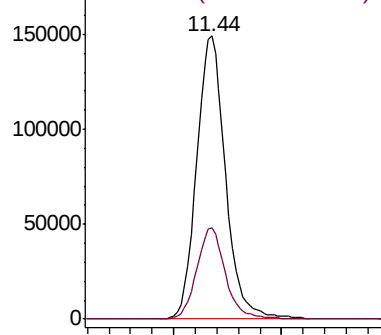
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 21.371 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

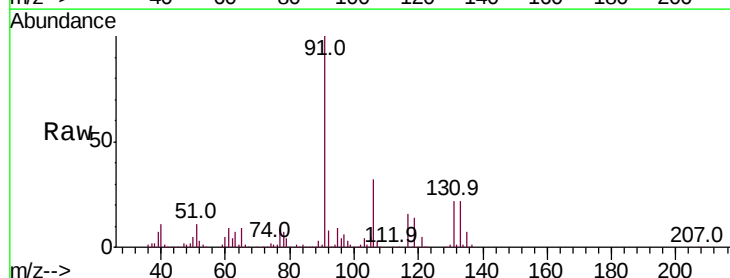
Tgt Ion:131 Resp: 104835

Ion Ratio Lower Upper

131 100

133 97.0 47.6 142.9

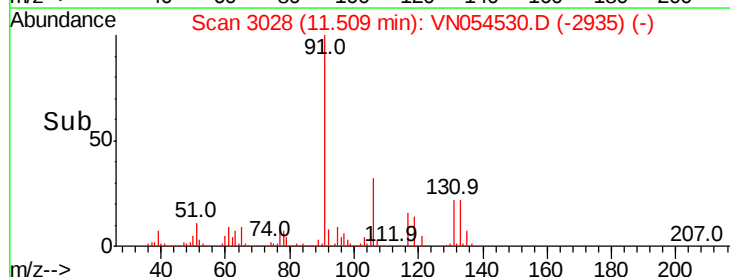
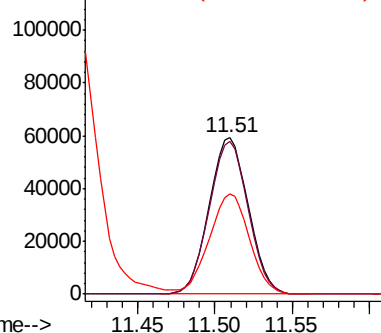
119 65.9 32.4 97.0

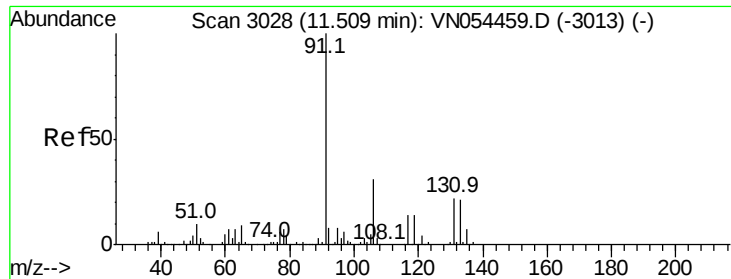


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





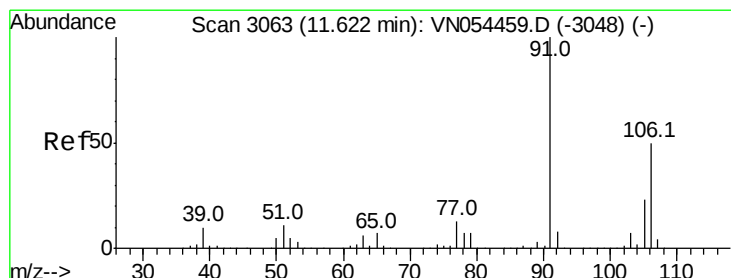
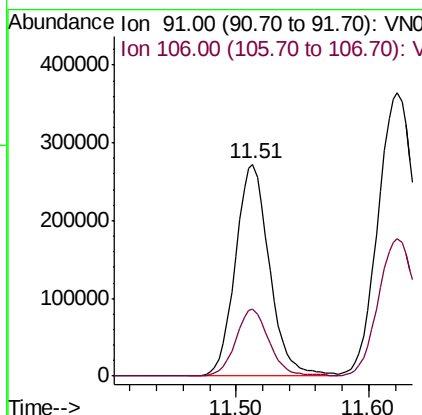
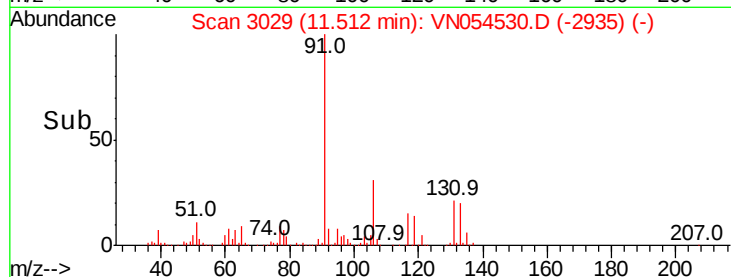
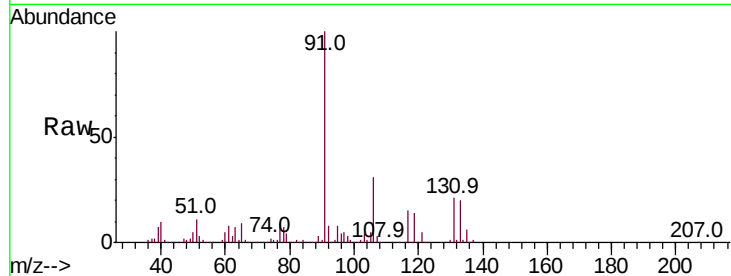
#67
Ethyl Benzene
Concen: 20.149 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS02

Tot Ion: 91 Resp: 486431
Ion Ratio Lower Upper
91 100
106 31.5 25.5 38.3

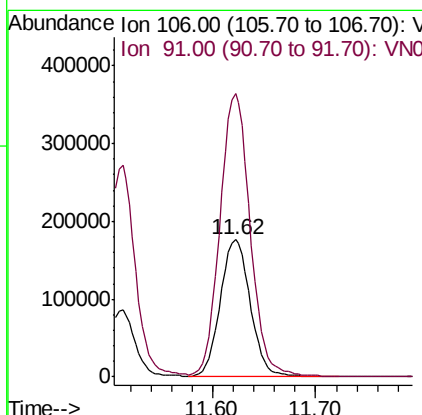
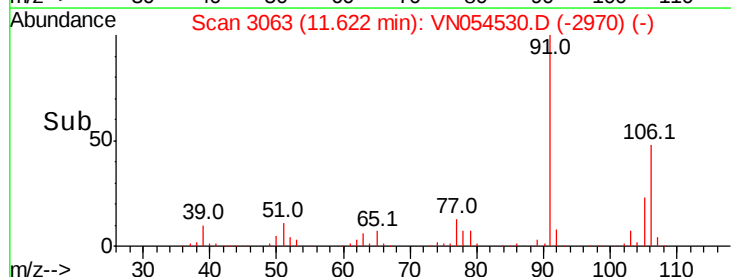
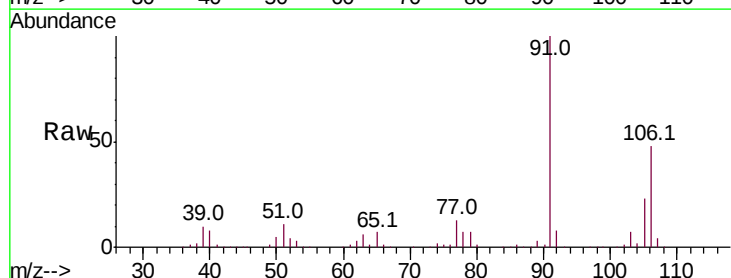
Manual Integrations
APPROVED

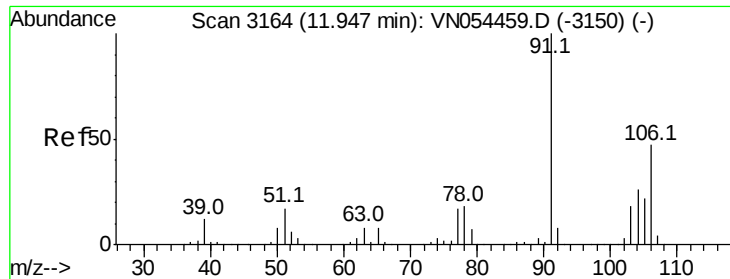
MMDadoda
3/22/2019 4:16:39 PM



#68
m/p-Xylenes
Concen: 39.282 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Tgt Ion: 106 Resp: 359204
Ion Ratio Lower Upper
106 100
91 207.4 159.4 239.2





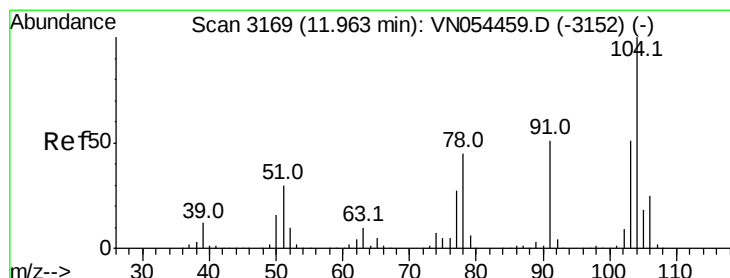
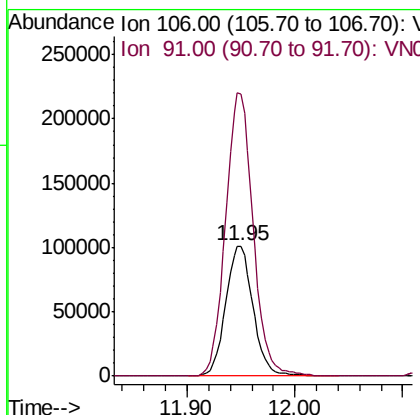
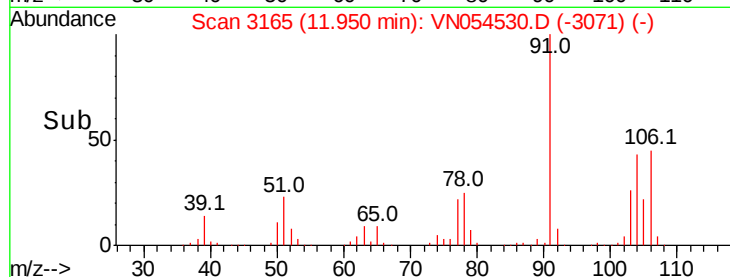
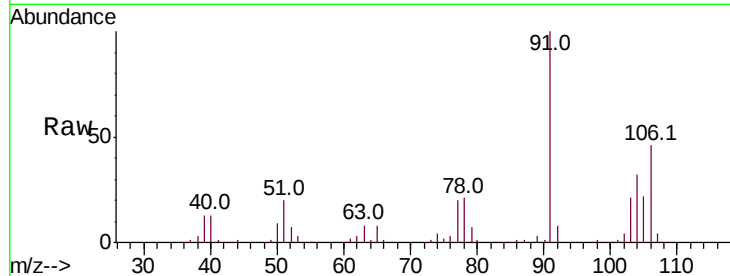
#69
o-Xylene
Concen: 20.044 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Instrument :
MSVOA_N
ClientSampleID :
VN0321WBS02

Tot Ion:106 Resp: 179001
Ion Ratio Lower Upper
106 100
91 218.9 105.7 317.1

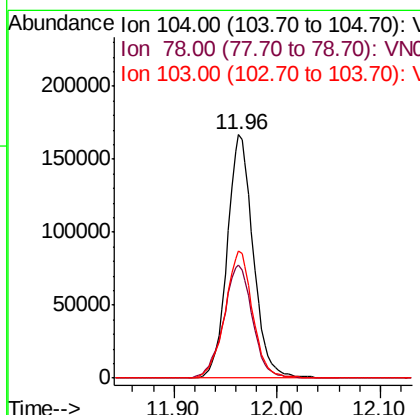
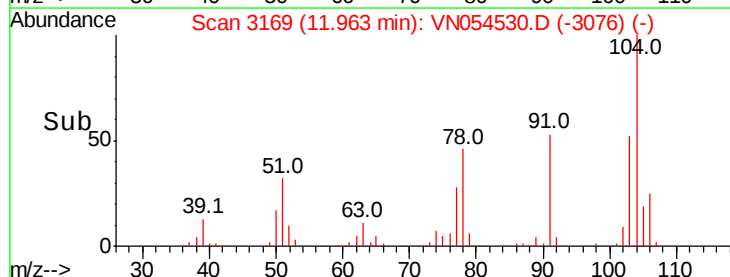
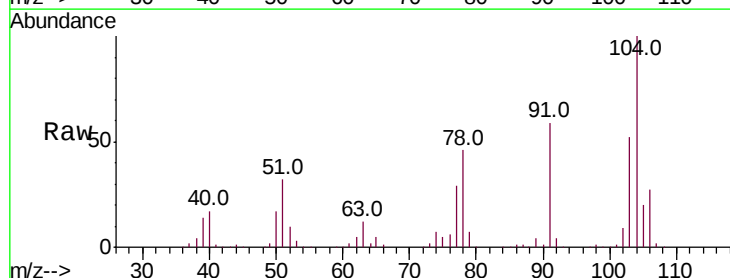
Manual Integrations
APPROVED

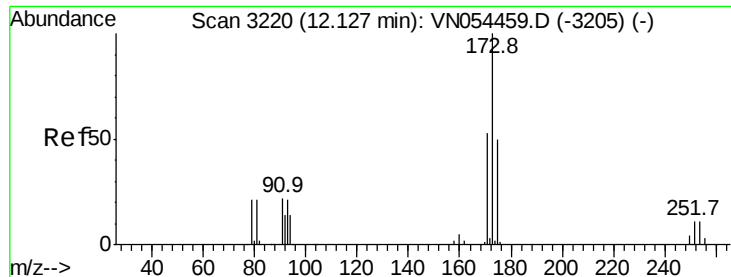
MMDadoda
3/22/2019 4:16:39 PM



#70
Styrene
Concen: 20.157 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Tgt Ion:104 Resp: 292317
Ion Ratio Lower Upper
104 100
78 51.7 38.2 57.2
103 55.6 44.4 66.6





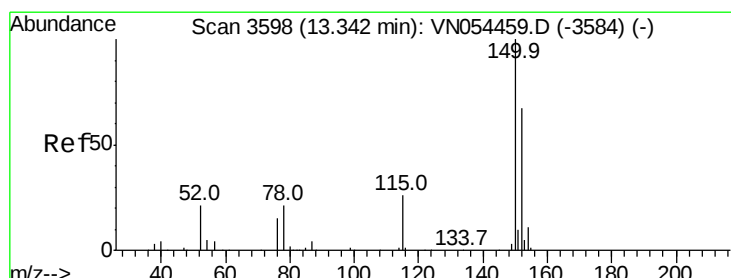
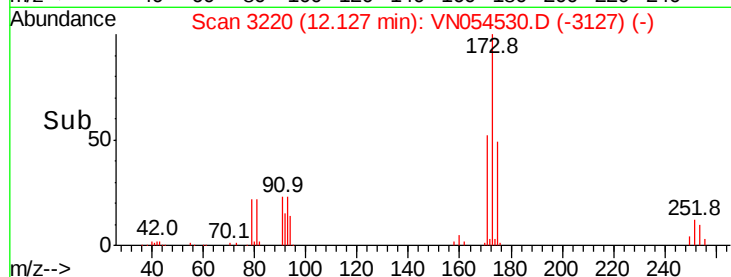
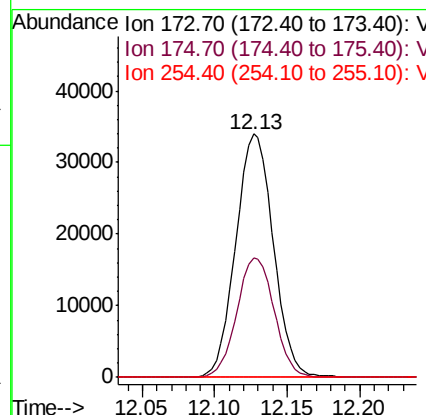
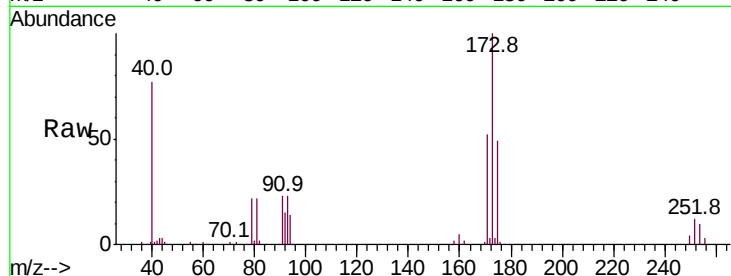
#71
Bromoform
Concen: 19.484 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS02

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.4	73.2
254	0.0	0.1	0.1#

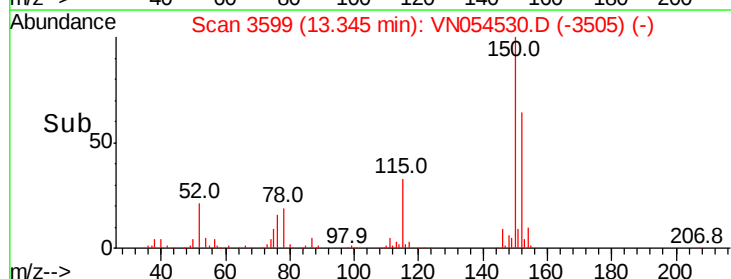
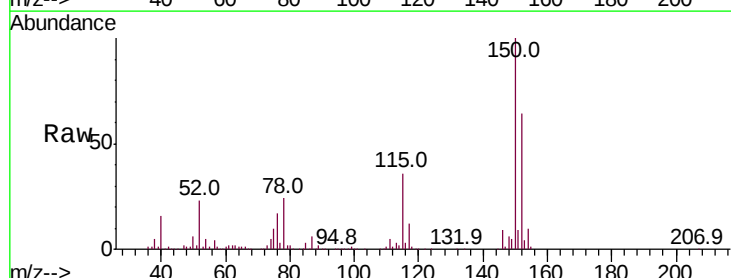
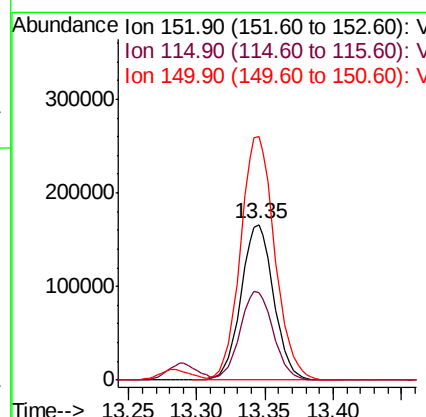
Manual Integrations
APPROVED

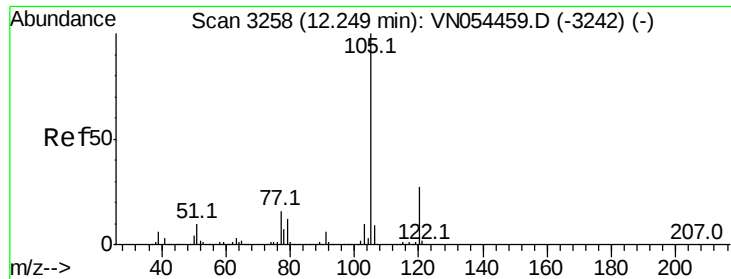
MMDadoda
3/22/2019 4:16:39 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.9	27.2	81.6
150	163.8	0.0	349.2





#73

Isopropylbenzene

Concen: 20.750 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS02

Tot Ion:105 Resp: 461145

Ion Ratio Lower Upper

105 100

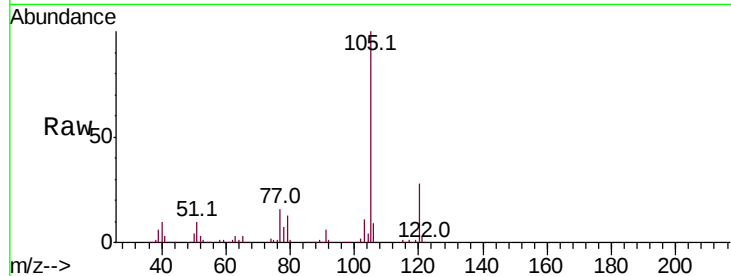
120 27.7 13.8 41.3

Manual Integrations

APPROVED

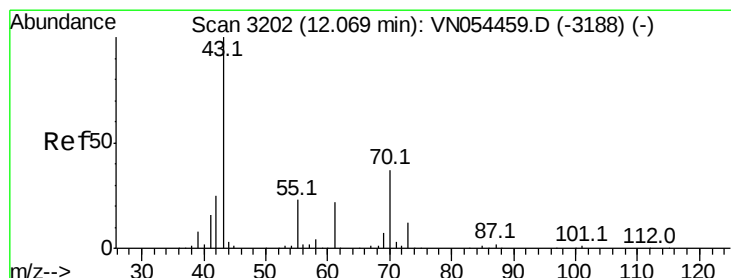
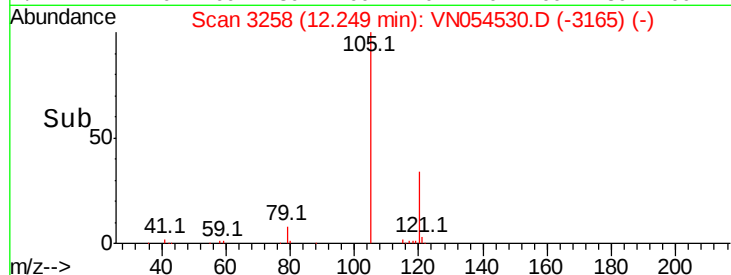
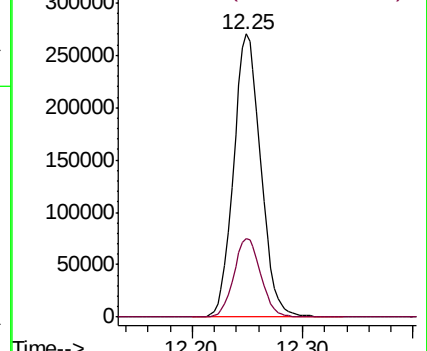
MMDadoda

3/22/2019 4:16:39 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 23.896 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Tgt Ion: 43 Resp: 152695

Ion Ratio Lower Upper

43 100

70 37.1 35.4 53.0

55 23.6 19.8 29.6

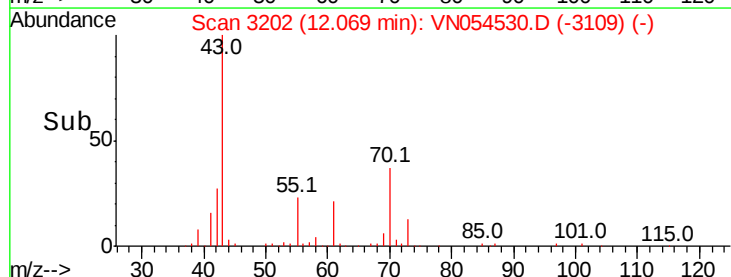
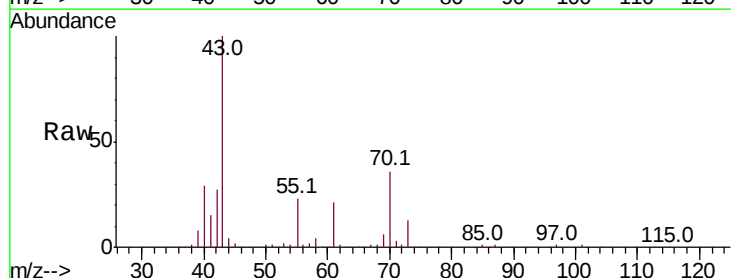
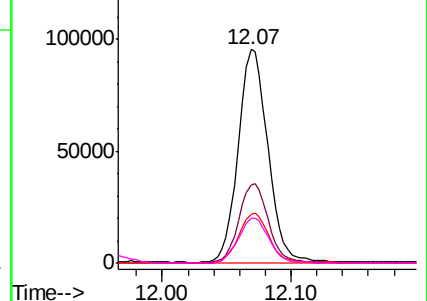
61 21.6 19.8 29.6

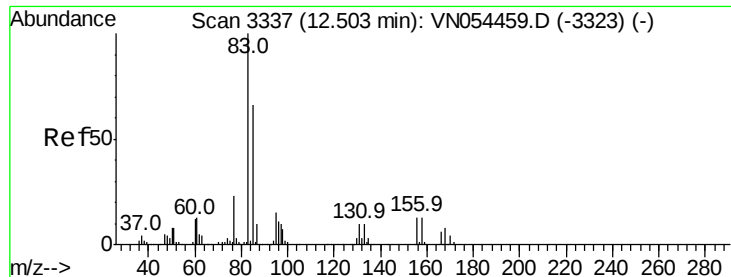
Abundance Ion 43.00 (42.70 to 43.70): V

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





#75

1,1,2,2-Tetrachloroethane

Concen: 23.717 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

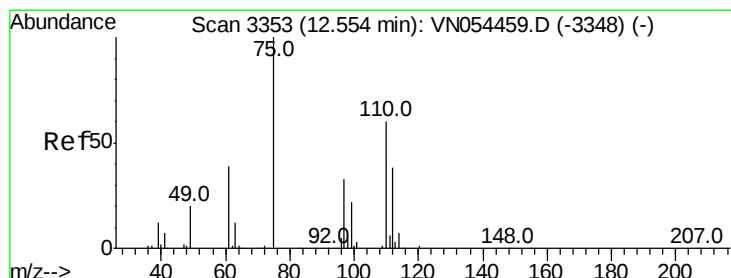
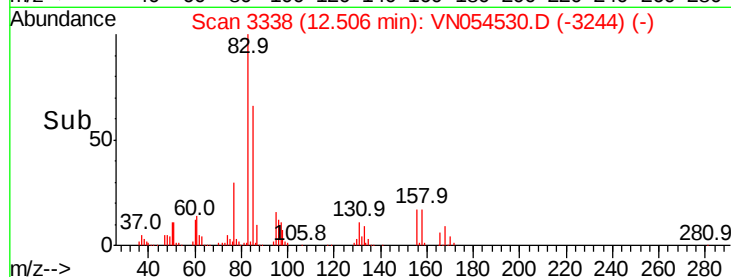
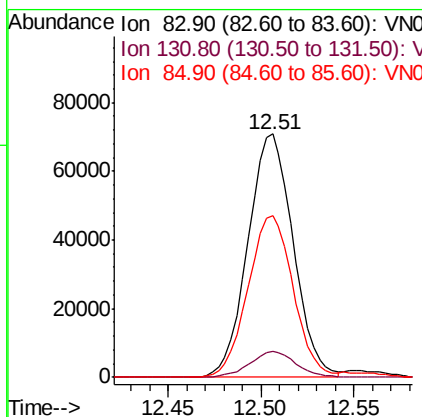
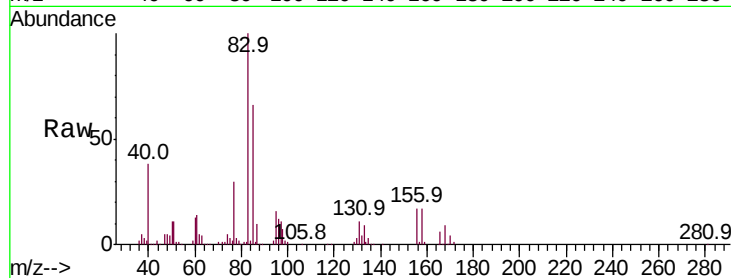
ClientSampleId :

VN0321WBS02

Tot Ion:	83	Resp:	120319
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.8	17.4
85	66.4	32.2	96.6

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 25.321 ug/l m

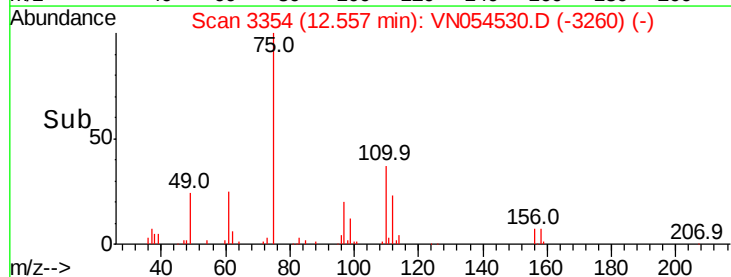
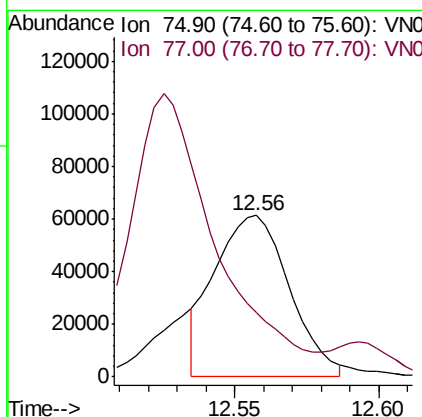
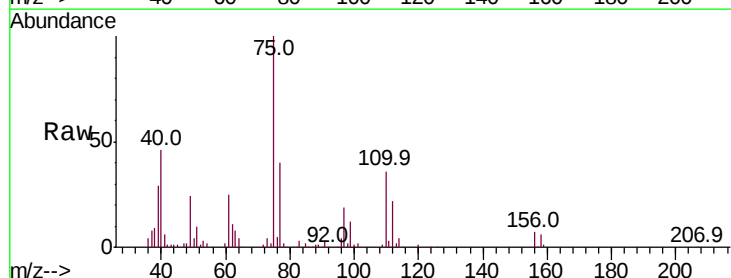
RT: 12.56 min Scan# 3354

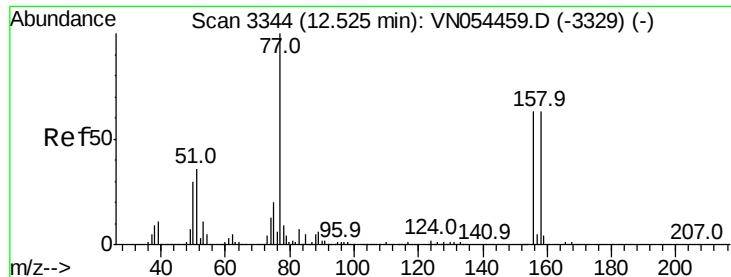
Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Tgt Ion:	75	Resp:	110813
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.921 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

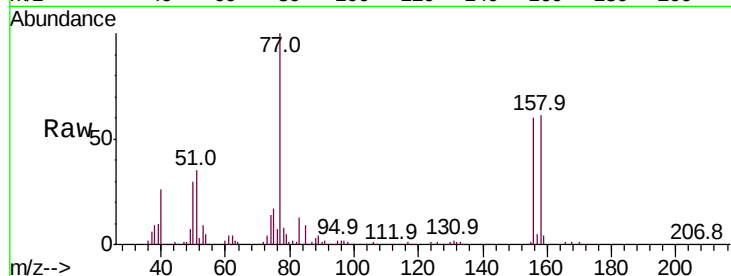
ClientSampleId :

VN0321WBS02

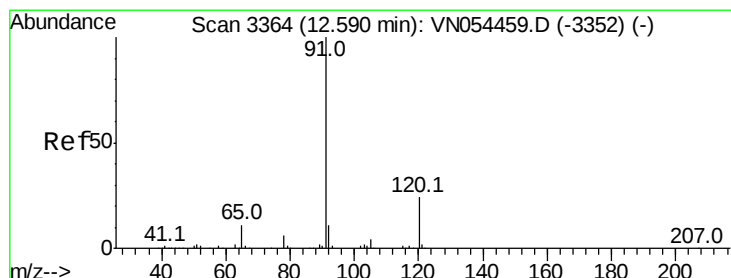
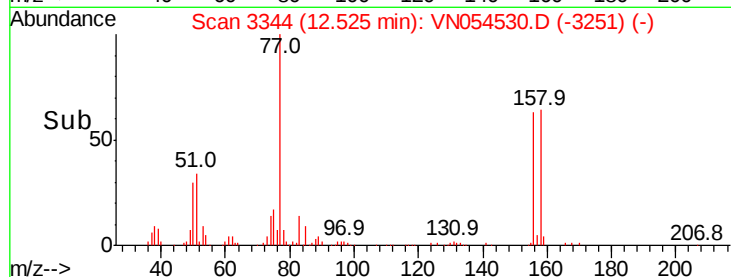
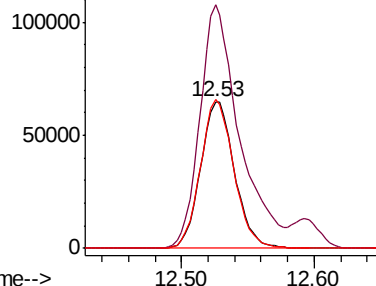
Tot Ion:	156	Resp:	115311
Ion Ratio	Lower	Upper	
156	100		
77	194.9	81.5	244.4
158	99.4	49.0	147.2

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Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VN
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.720 ug/l

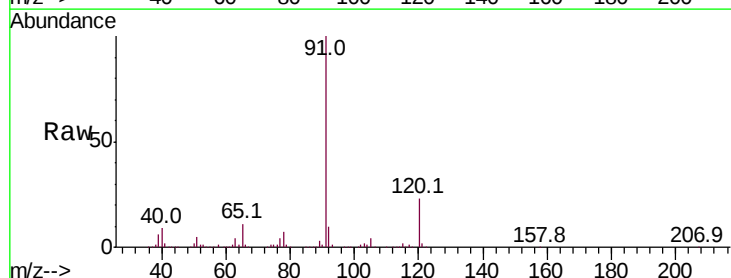
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

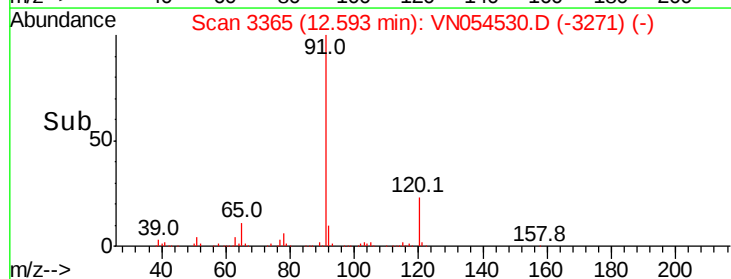
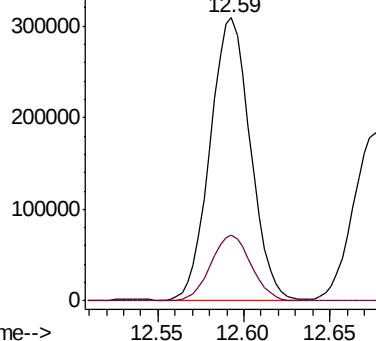
Lab File: VN054530.D

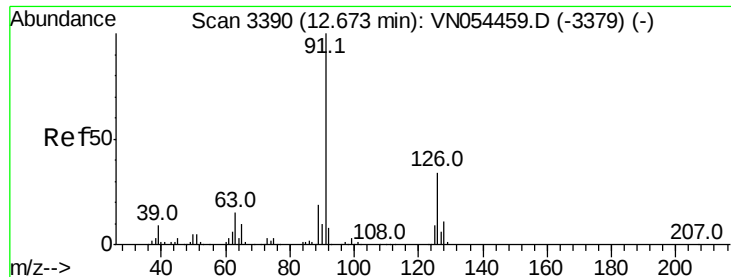
Acq: 22 Mar 2019 00:53

Tgt Ion:	91	Resp:	499310
Ion Ratio	Lower	Upper	
91	100		
120	23.4	12.3	36.9



Abundance Ion 91.00 (90.70 to 91.70): VN
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.882 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS02

Tot Ion: 91 Resp: 313802

Ion Ratio Lower Upper

91 100

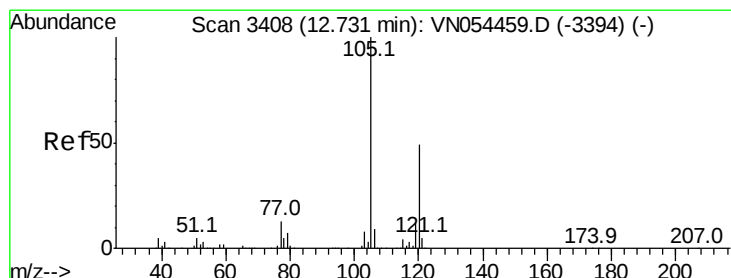
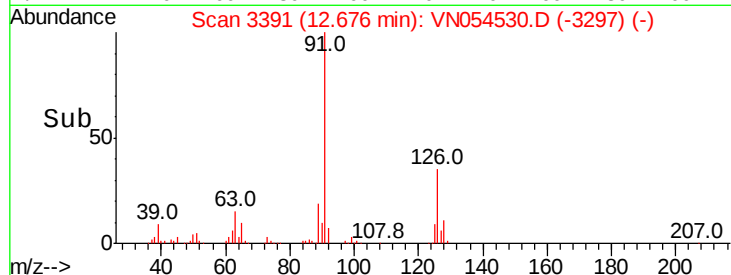
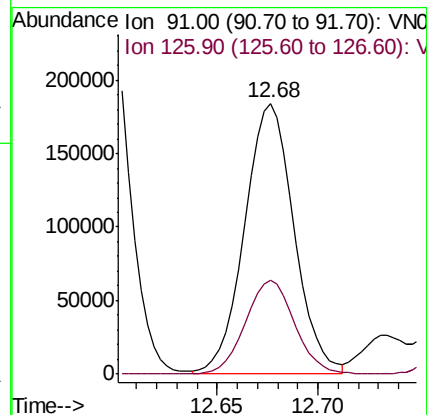
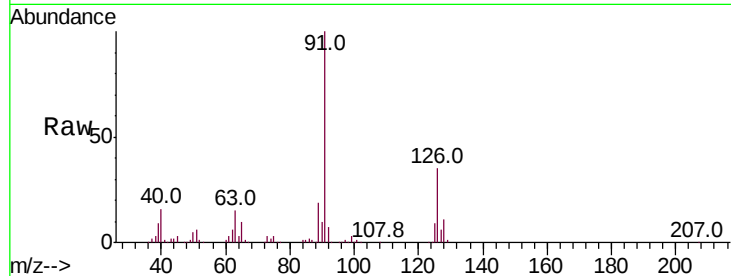
126 34.8 18.7 56.1

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 21.128 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN054530.D

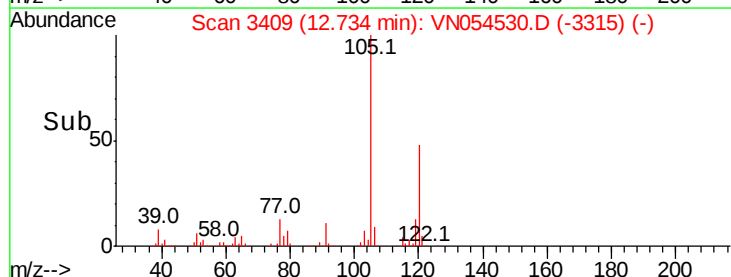
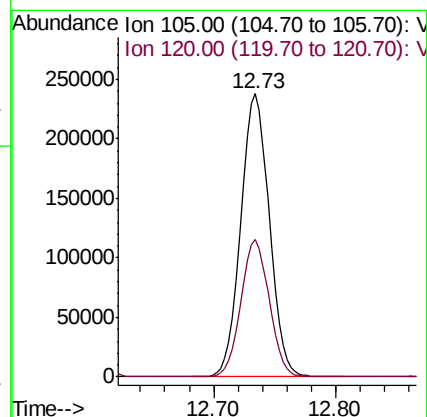
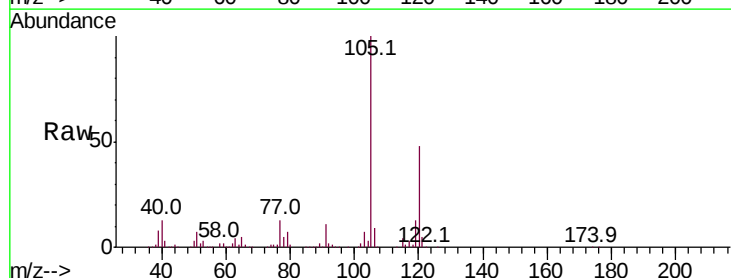
Acq: 22 Mar 2019 00:53

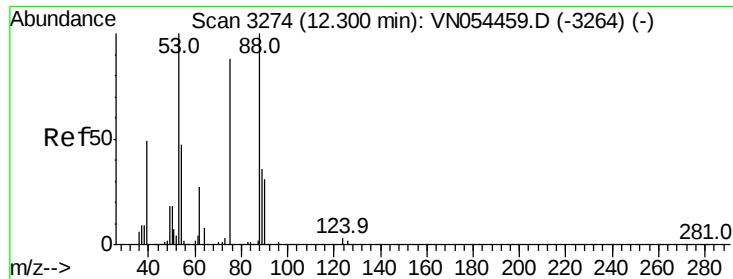
Tgt Ion: 105 Resp: 384829

Ion Ratio Lower Upper

105 100

120 48.0 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 18.333 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

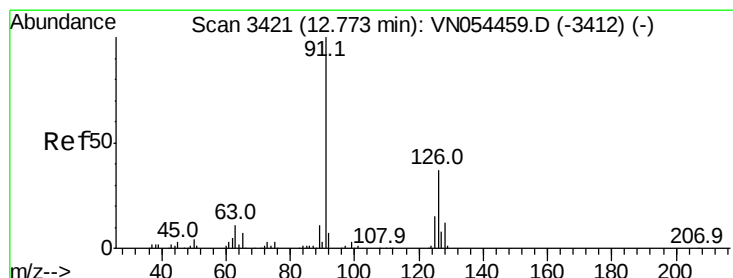
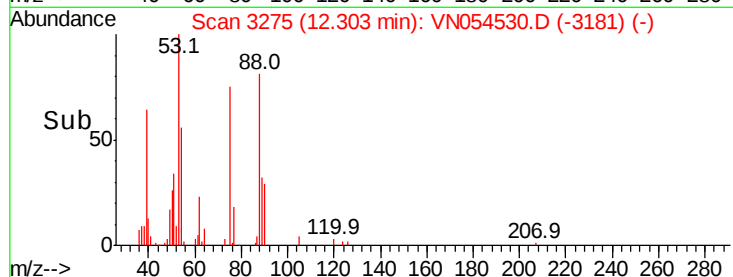
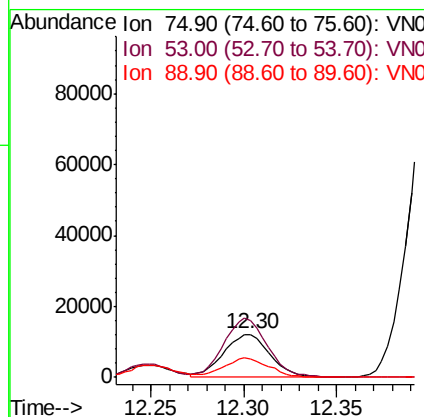
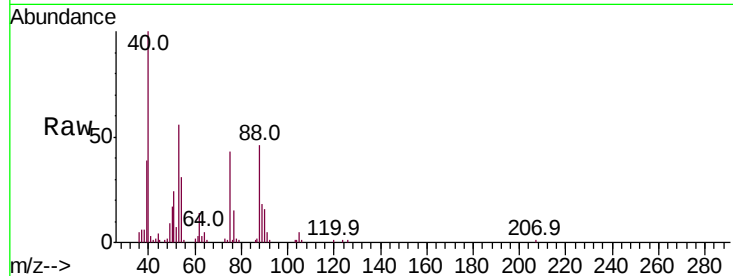
ClientSampleId :

VN0321WBS02

Tot Ion:	75	Resp:	20551
Ion Ratio	Lower	Upper	
75	100		
53	132.7	76.2	114.2#
89	44.2	39.2	58.8

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#82

4-Chlorotoluene

Concen: 20.826 ug/l

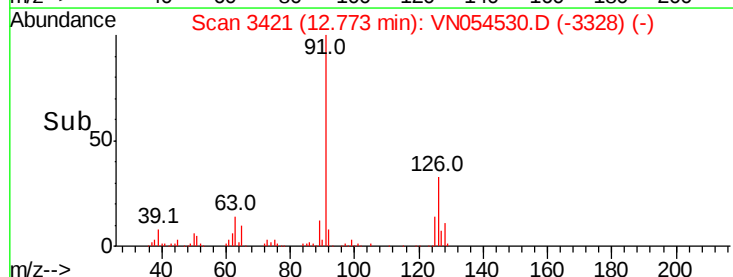
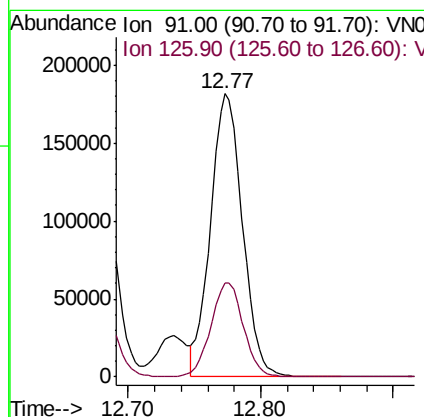
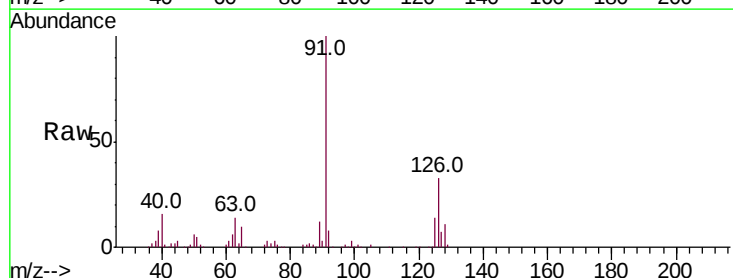
RT: 12.77 min Scan# 3421

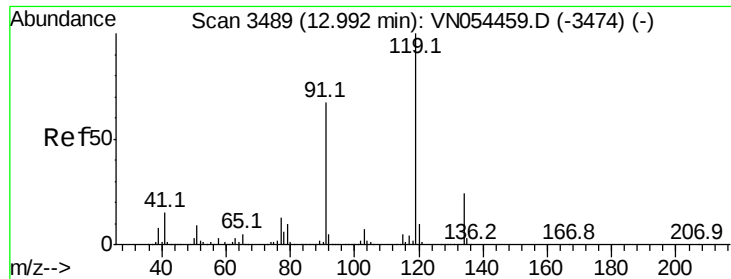
Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Tgt Ion:	91	Resp:	303363
Ion Ratio	Lower	Upper	
91	100		
126	33.8	18.1	54.1





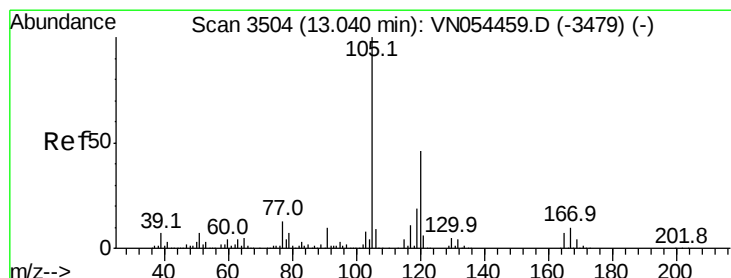
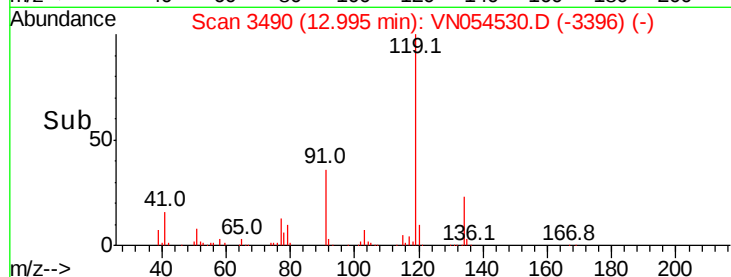
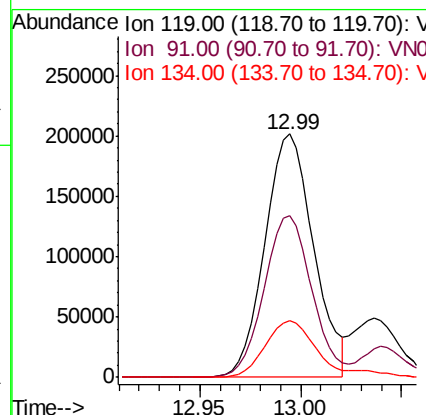
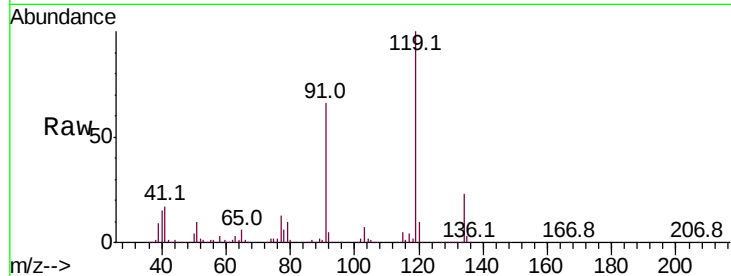
#83
 tert-Butylbenzene
 Concen: 21.375 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN054530.D
 Acq: 22 Mar 2019 00:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBS02

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.4	30.9	92.8
134	25.6	13.2	39.6

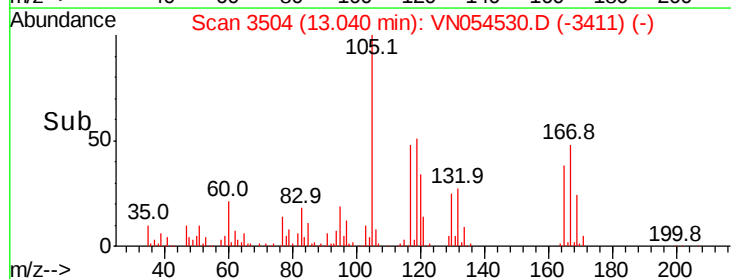
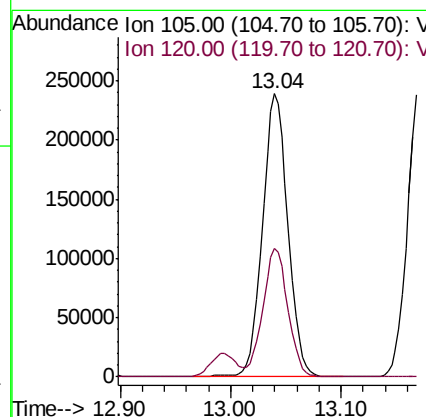
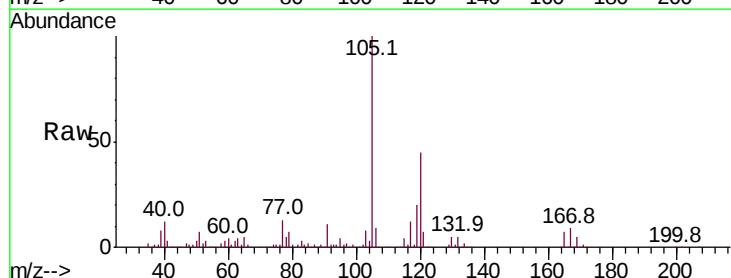
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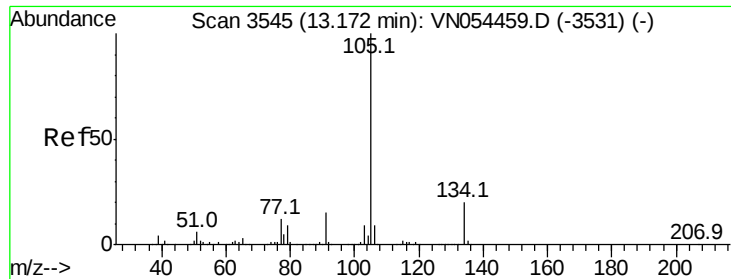
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.276 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN054530.D
 Acq: 22 Mar 2019 00:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.8	23.4	70.3





#85

sec-Butylbenzene

Concen: 20.987 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS02

Tot Ion:105 Resp: 414785

Ion Ratio Lower Upper

105 100

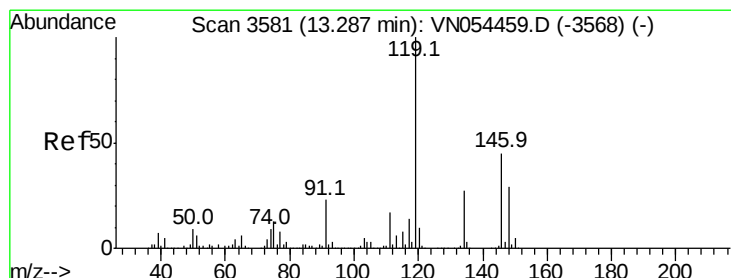
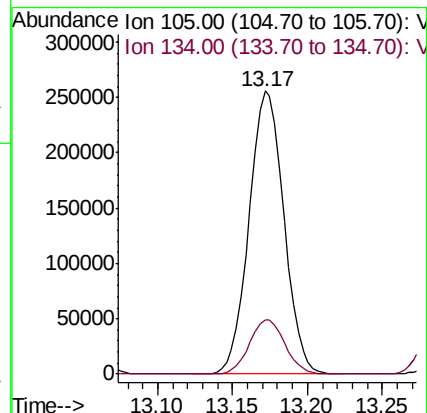
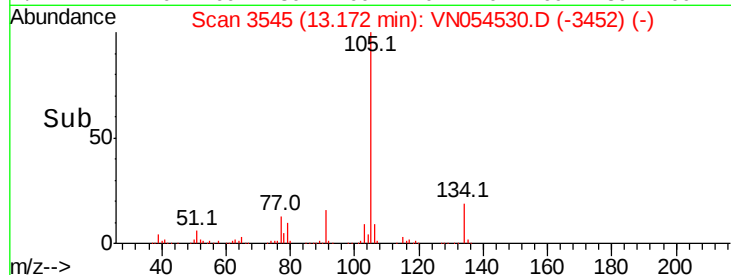
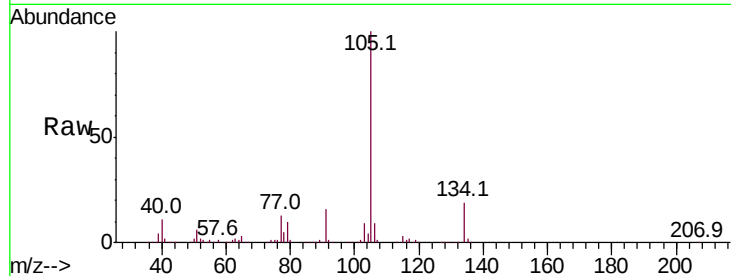
134 19.5 10.7 32.1

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#86

p-Isopropyltoluene

Concen: 20.839 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

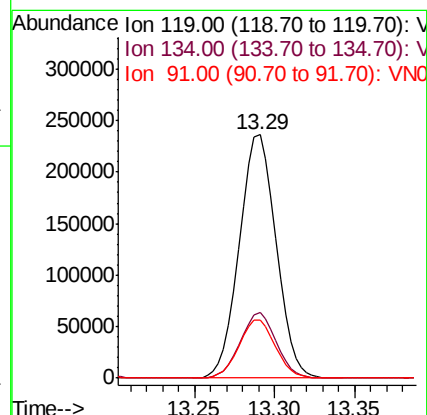
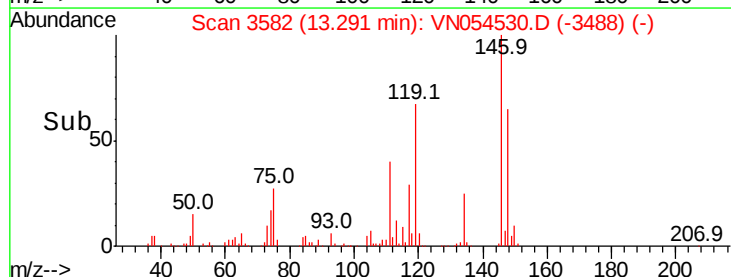
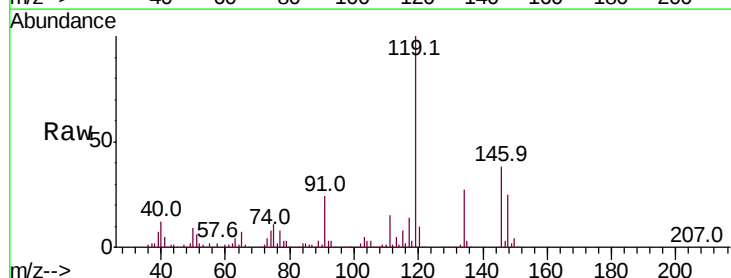
Tgt Ion:119 Resp: 368477

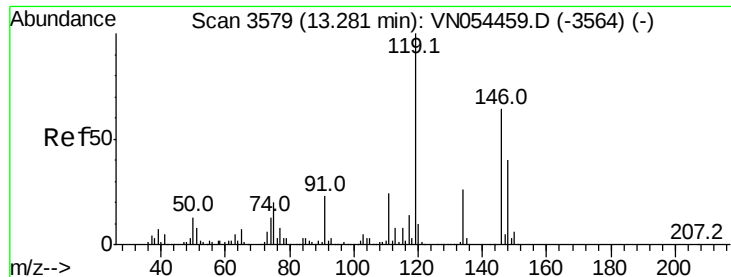
Ion Ratio Lower Upper

119 100

134 26.4 13.6 40.8

91 23.7 11.1 33.3





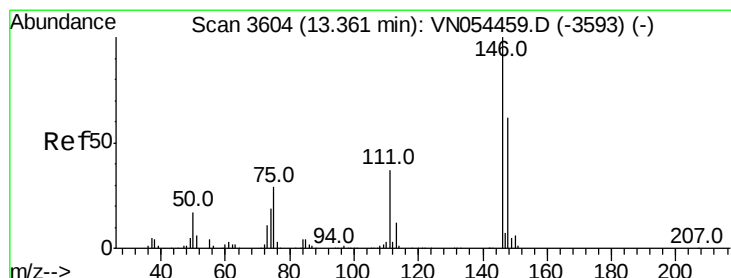
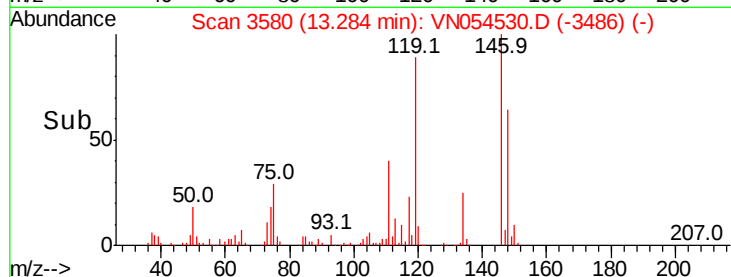
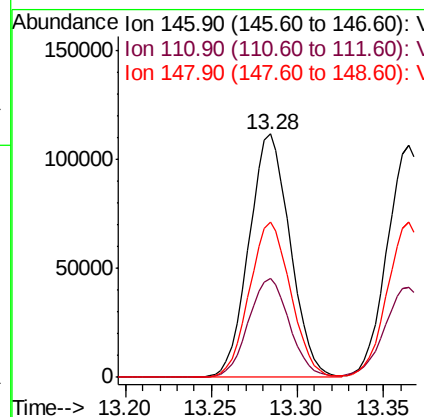
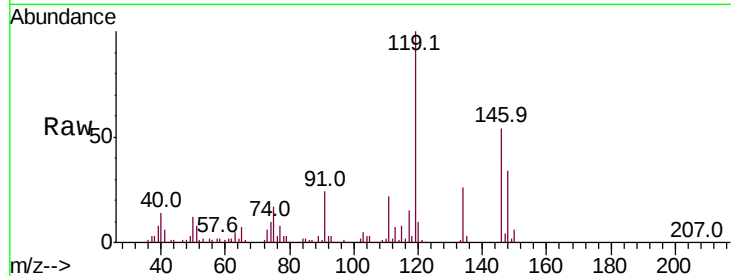
#87
1,3-Dichlorobenzene
Concen: 20.331 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	18.8	56.3
148	63.8	32.2	96.6

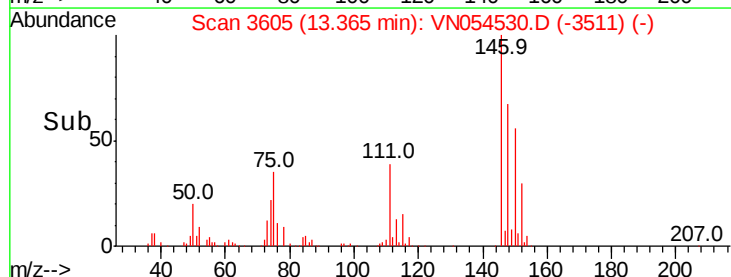
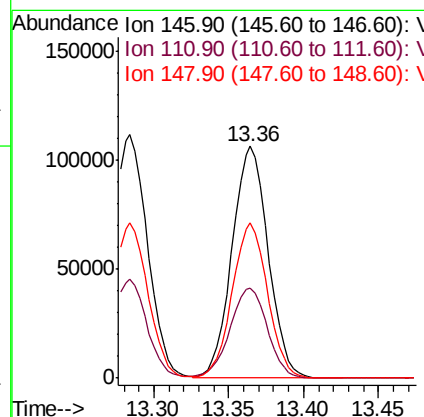
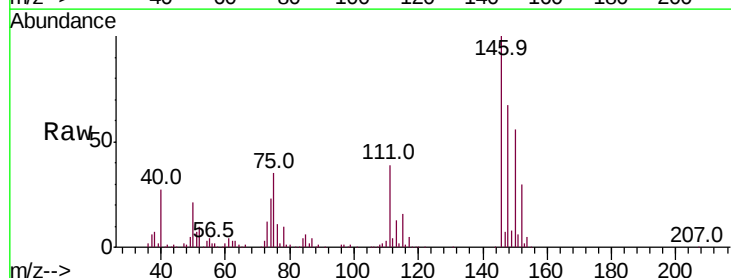
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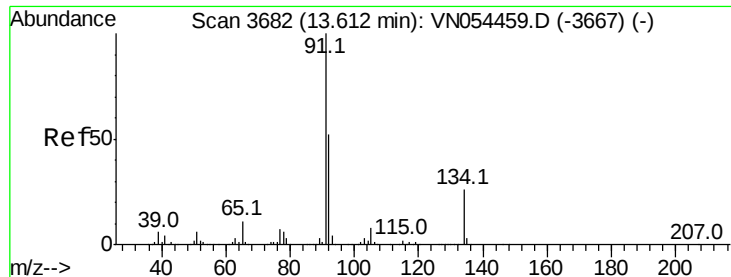
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#88
1,4-Dichlorobenzene
Concen: 20.113 ug/l
RT: 13.36 min Scan# 3605
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.4	18.1	54.1
148	65.7	32.0	96.0





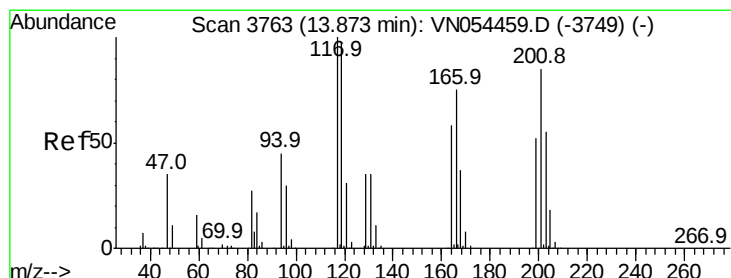
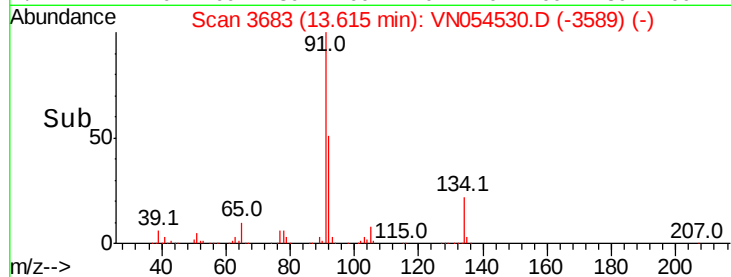
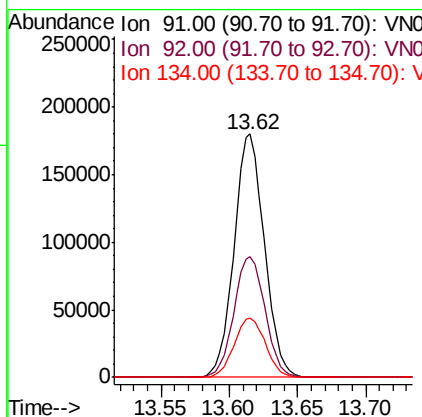
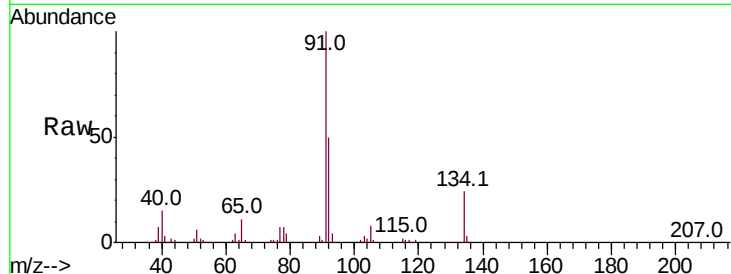
#89
n-Butylbenzene
Concen: 20.067 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS02

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.8	26.2	78.6
134	25.1	14.3	42.9

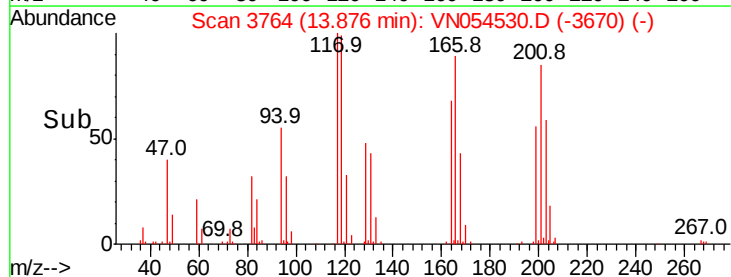
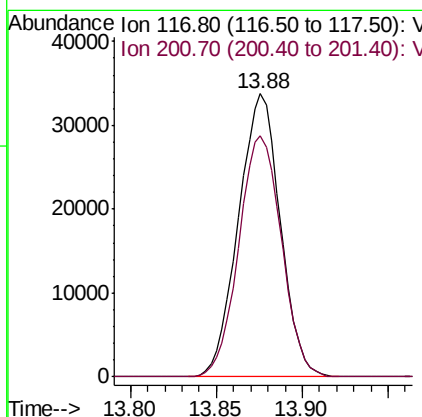
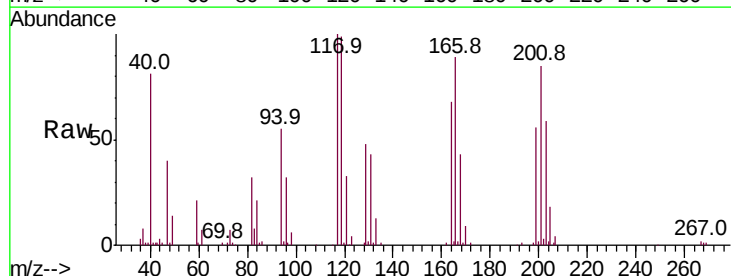
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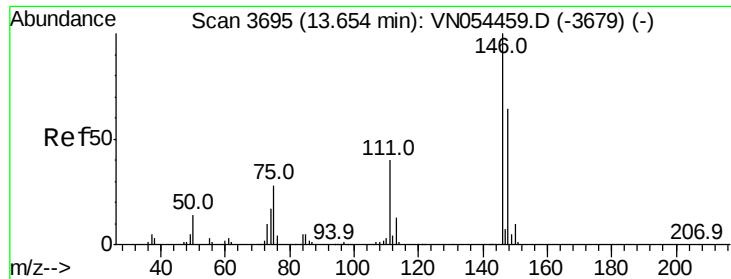
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#90
Hexachloroethane
Concen: 20.757 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Tgt Ion	Ratio	Lower	Upper
117	100		
201	86.8	48.1	144.4





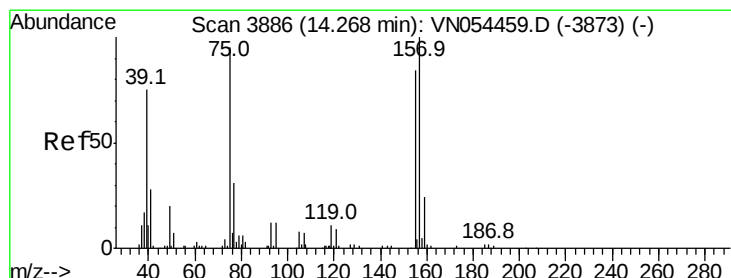
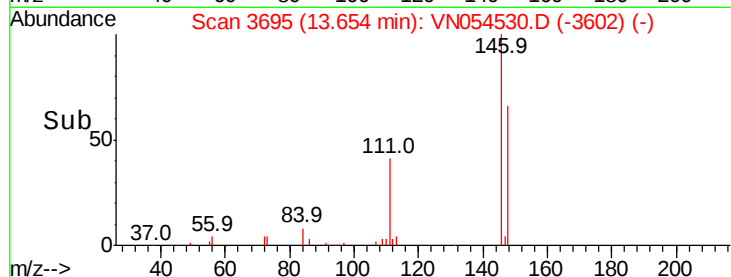
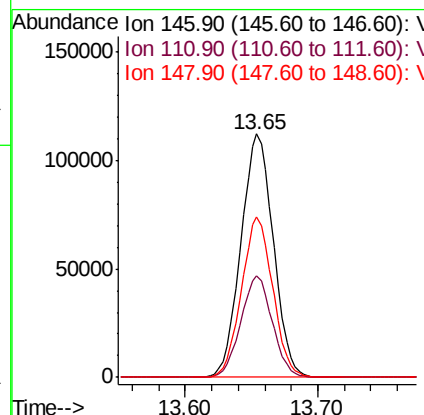
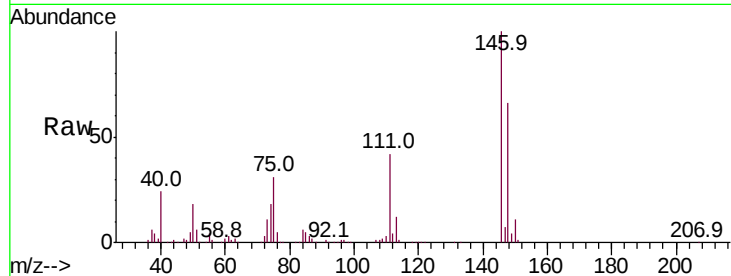
#91
 1,2-Dichlorobenzene
 Concen: 21.486 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN054530.D
 Acq: 22 Mar 2019 00:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	19.1	57.3
148	63.8	32.4	97.0

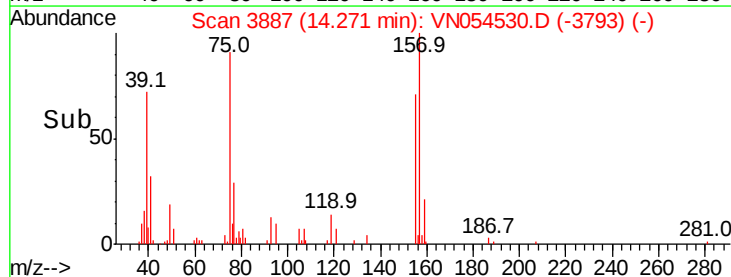
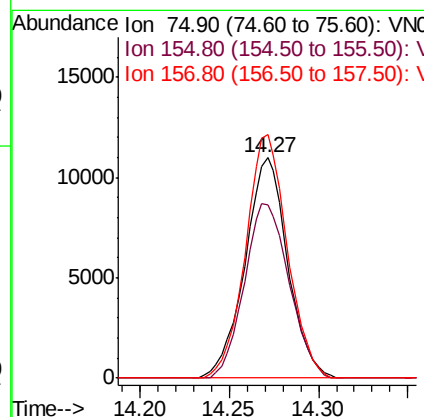
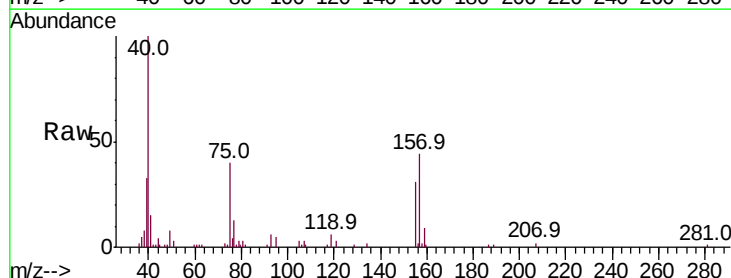
Manual Integrations
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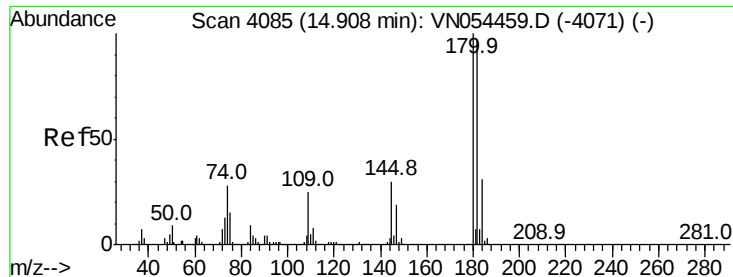
MMDadoda
 3/22/2019 4:16:39 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 24.635 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN054530.D
 Acq: 22 Mar 2019 00:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.5	50.1	150.3
157	107.7	63.1	189.3





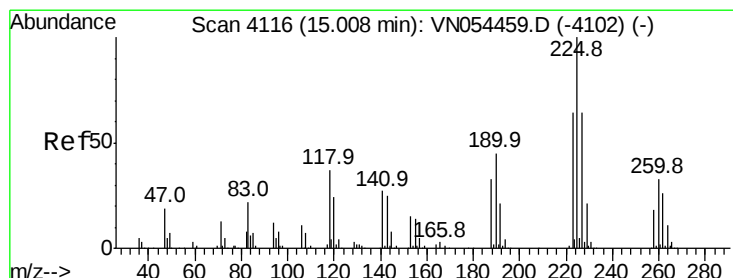
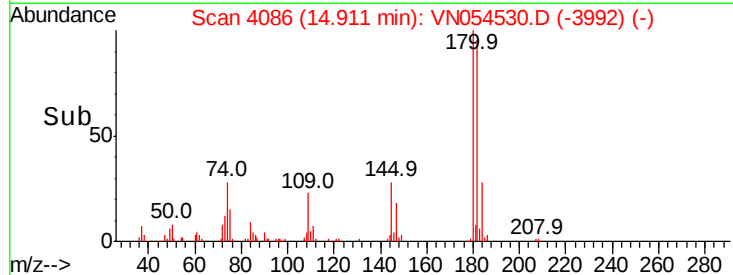
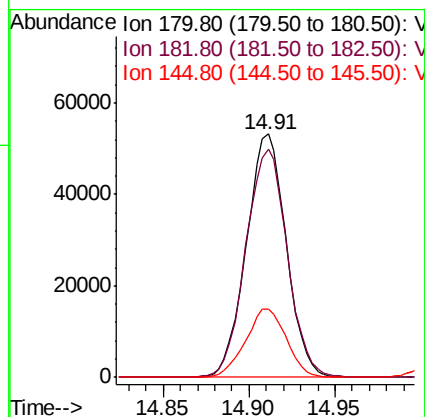
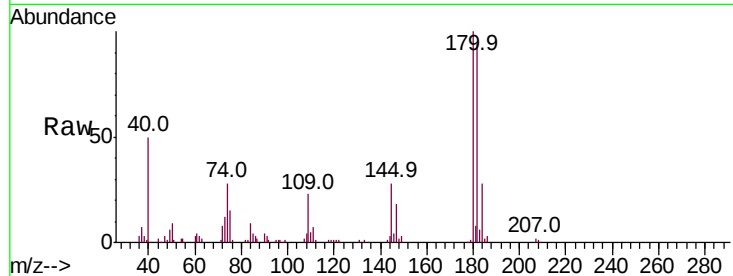
#93
1,2,4-Trichlorobenzene
Concen: 19.356 ug/l
RT: 14.91 min Scan# 4086
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	97.4	48.0	144.2	
145	28.8	14.2	42.8	

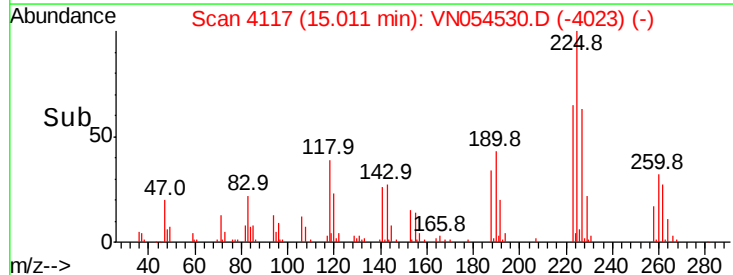
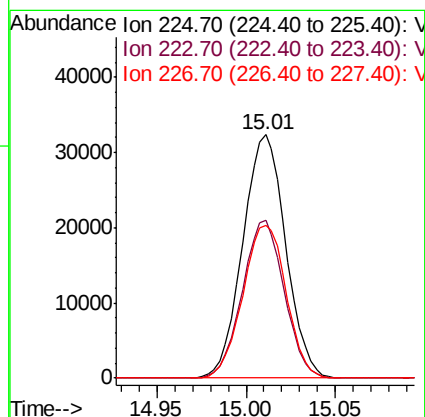
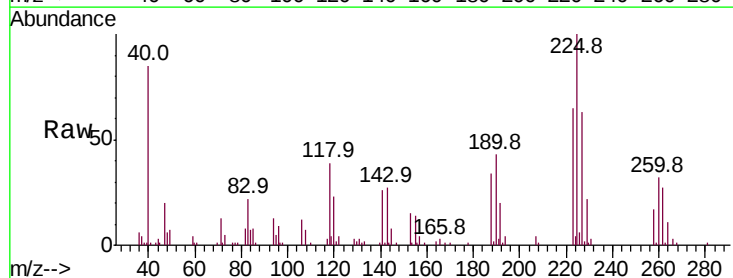
Manual Integrations
APPROVED

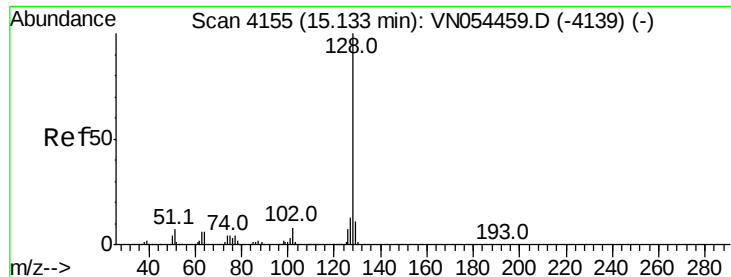
MMDadoda
3/22/2019 4:16:39 PM



#94
Hexachlorobutadiene
Concen: 20.435 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. 0.00 min
Lab File: VN054530.D
Acq: 22 Mar 2019 00:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.3	31.1	93.5	
227	63.4	31.9	95.9	





#95

Naphthalene

Concen: 20.796 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Instrument :

MSVOA_N

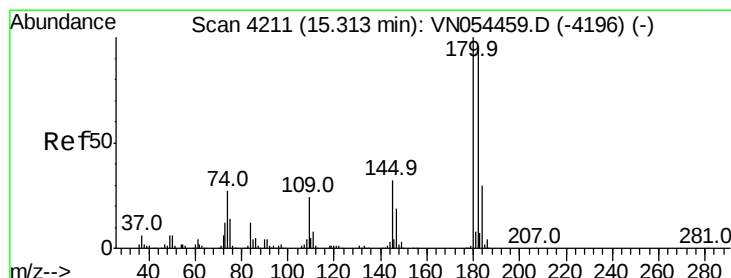
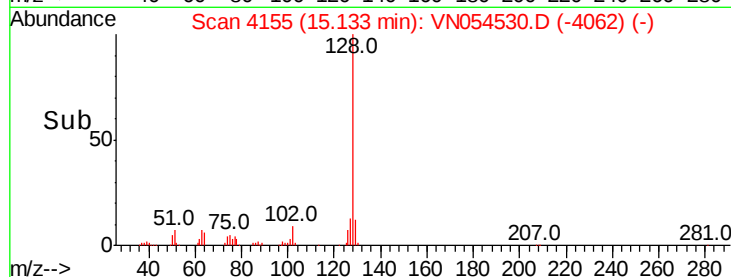
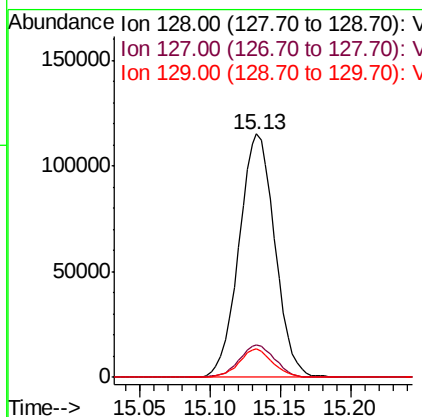
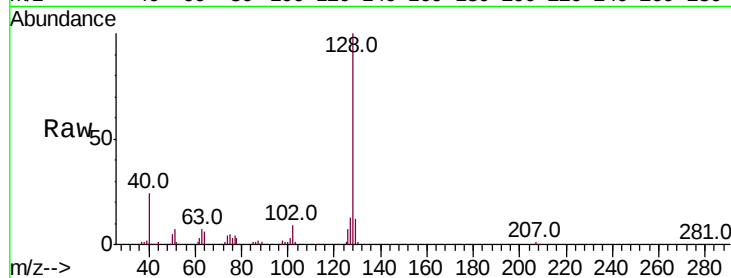
ClientSampleId :

VN0321WBS02

Tot Ion:	128	Resp:	204579
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.1	15.1
129	10.9	8.7	13.1

Manual Integrations
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3/22/2019 4:16:39 PM



#96

1,2,3-Trichlorobenzene

Concen: 20.857 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN054530.D

Acq: 22 Mar 2019 00:53

Tgt Ion:	180	Resp:	91552
Ion Ratio	Lower	Upper	
180	100		
182	93.8	47.5	142.6
145	30.9	14.8	44.3

