

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
 Data File : VN054392.D
 Acq On : 18 Mar 2019 14:27
 Operator : JC/SP
 Sample : VN0318WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318WBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 9:24:05 AM

Quant Time: Mar 19 06:29:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1273733	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2010762	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1727138	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	746073	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	711942	52.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.26%	
35) Dibromofluoromethane	7.59	113	668998	51.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.18%	
50) Toluene-d8	10.09	98	2406795	50.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.50%	
62) 4-Bromofluorobenzene	12.40	95	786156	46.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.82%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	253616	21.009	ug/l	100
3) Chloromethane	2.06	50	231783	19.766	ug/l	99
4) Vinyl Chloride	2.19	62	261425	19.505	ug/l	99
5) Bromomethane	2.57	94	169826	18.295	ug/l	99
6) Chloroethane	2.71	64	157829	19.463	ug/l	100
7) Trichlorofluoromethane	3.02	101	340861	19.129	ug/l	100
8) Diethyl Ether	3.41	74	175987	21.673	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.75	101	277137	20.754	ug/l	99
10) Methyl Iodide	3.94	142	383522	21.116	ug/l	99
11) Tert butyl alcohol	4.82	59	76577	82.577	ug/l	99
12) 1,1-Dichloroethene	3.73	96	274483	20.743	ug/l	98
13) Acrolein	3.60	56	65486	74.523	ug/l	99
14) Allyl chloride	4.32	41	335330	19.751	ug/l	98
15) Acrylonitrile	4.99	53	433225	113.730	ug/l	100
16) Acetone	3.82	43	298778	77.142	ug/l	100
17) Carbon Disulfide	4.04	76	524196	15.802	ug/l	100
18) Methyl Acetate	4.33	43	206407	26.341	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	720382	21.963	ug/l	99
20) Methylene Chloride	4.55	84	281555	22.139	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	263464	20.780	ug/l	98
22) Diisopropyl ether	5.96	45	763170	22.522	ug/l	98
23) Vinyl Acetate	5.90	43	2554570	102.250	ug/l	99
24) 1,1-Dichloroethane	5.85	63	476807	21.915	ug/l	99
25) 2-Butanone	6.85	43	484582	106.599	ug/l	100
26) 2,2-Dichloropropane	6.82	77	308856	16.143	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	317520	22.448	ug/l	96
28) Bromochloromethane	7.19	49	196328	22.073	ug/l	99
29) Tetrahydrofuran	7.22	42	318753	109.057	ug/l	99
30) Chloroform	7.37	83	511060	22.510	ug/l	100
31) Cyclohexane	7.65	56	426162	20.220	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	424263	20.692	ug/l	99
36) 1,1-Dichloropropene	7.79	75	370955	20.033	ug/l	99
37) Ethyl Acetate	6.94	43	216299	20.329	ug/l	99
38) Carbon Tetrachloride	7.77	117	357255	18.397	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	421014	18.479	ug/l	99
40) Benzene	8.04	78	1115903	21.059	ug/l	99
41) Methacrylonitrile	7.18	41	110731	18.227	ug/l	91
42) 1,2-Dichloroethane	8.12	62	367630	20.549	ug/l	99
43) Isopropyl Acetate	8.17	43	355903	19.057	ug/l	98
44) Trichloroethene	8.84	130	328659	19.966	ug/l	100
45) 1,2-Dichloropropane	9.12	63	287350	21.839	ug/l	97
46) Dibromomethane	9.21	93	185011	20.811	ug/l	98
47) Bromodichloromethane	9.40	83	350629	19.673	ug/l	99
48) Methyl methacrylate	9.20	41	194376	20.509	ug/l	96
49) 1,4-Dioxane	9.20	88	47046	350.929	ug/l	95
51) 4-Methyl-2-Pentanone	9.99	43	1030245	104.240	ug/l	97
52) Toluene	10.16	92	710850	21.157	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	313997	16.778	ug/l	96
54) cis-1,3-Dichloropropene	9.84	75	384845	18.530	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	260648	21.246	ug/l	98
56) Ethyl methacrylate	10.43	69	296579	20.274	ug/l	98
57) 1,3-Dichloropropane	10.71	76	428651	21.368	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	560025	99.132	ug/l	98
59) 2-Hexanone	10.75	43	642896	97.758	ug/l	100
60) Dibromochloromethane	10.90	129	258947	18.753	ug/l	99
61) 1,2-Dibromoethane	11.01	107	259300	20.799	ug/l	100
64) Tetrachloroethene	10.63	164	333920	19.997	ug/l	99
65) Chlorobenzene	11.43	112	796300	20.998	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	279718	20.304	ug/l	97
67) Ethyl Benzene	11.51	91	1305991	20.775	ug/l	100
68) m/p-Xylenes	11.62	106	1020827	41.547	ug/l	100
69) o-Xylene	11.95	106	508594	21.234	ug/l	98
70) Styrene	11.96	104	776582	20.673	ug/l	100
71) Bromoform	12.13	173	160058	16.875	ug/l #	99
73) Isopropylbenzene	12.25	105	1330380	22.288	ug/l	100
74) N-amyl acetate	12.07	43	271213	20.470	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.50	83	296280	23.297	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	236735m	21.578	ug/l	
77) Bromobenzene	12.53	156	351105	22.229	ug/l	94
78) n-propylbenzene	12.59	91	1393171	21.510	ug/l	100
79) 2-Chlorotoluene	12.67	91	852675	21.895	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1060174	21.353	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	43808	13.650	ug/l #	75
82) 4-Chlorotoluene	12.77	91	826553	21.256	ug/l	99
83) tert-Butylbenzene	12.99	119	971755	21.264	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1069094	21.949	ug/l	100
85) sec-Butylbenzene	13.17	105	1199534	20.240	ug/l	100
86) p-Isopropyltoluene	13.29	119	1035471	19.915	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	553260	20.787	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	529862	20.266	ug/l	98
89) n-Butylbenzene	13.62	91	732468	18.541	ug/l	99
90) Hexachloroethane	13.88	117	142767	16.583	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	558691	21.473	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	36201	18.395	ug/l	94

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Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	245687	17.370	ug/l	99
94) Hexachlorobutadiene	15.01	225	161978	16.344	ug/l	99
95) Naphthalene	15.13	128	559992	19.395	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	260878	18.871	ug/l	100

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

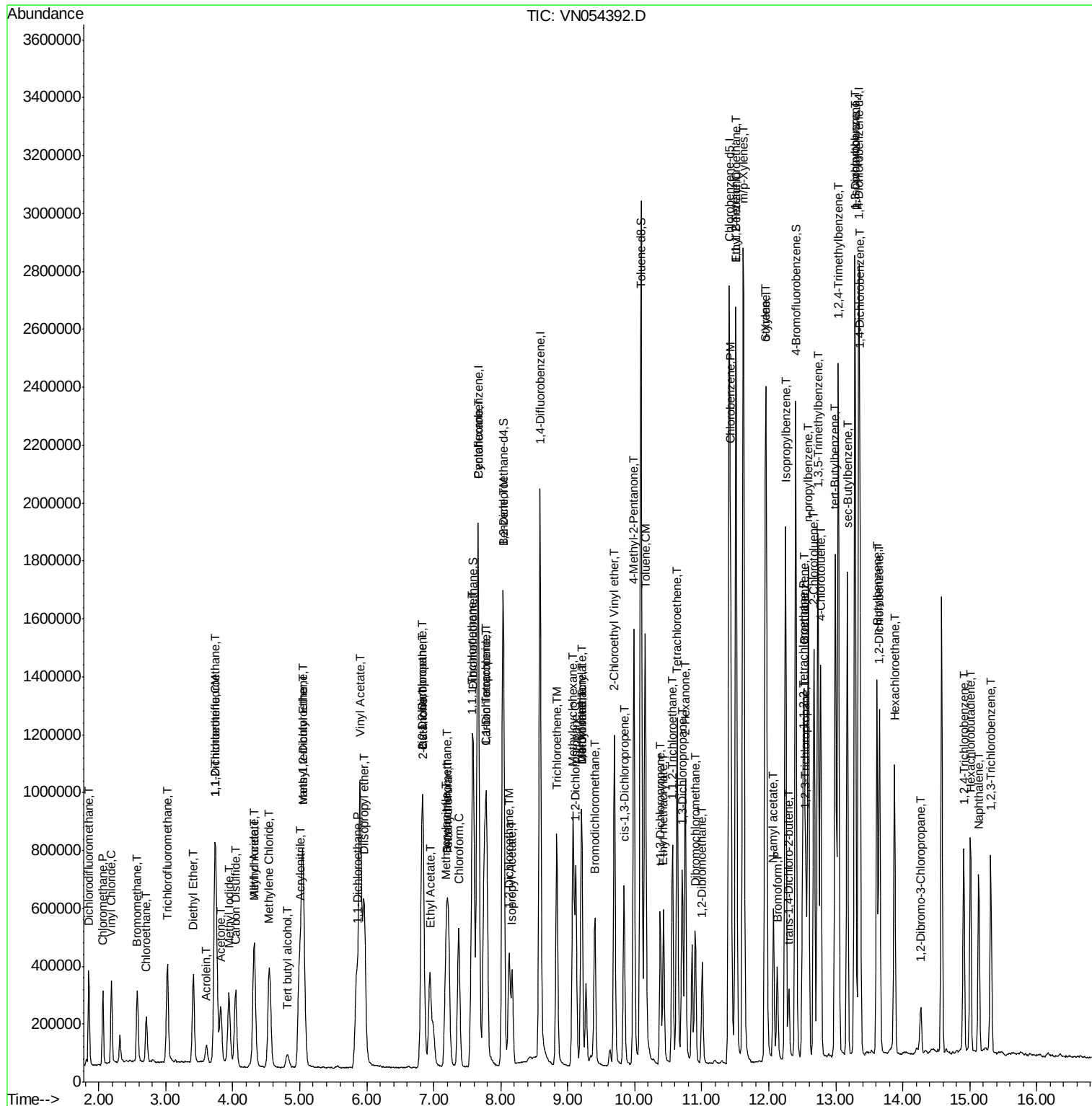
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
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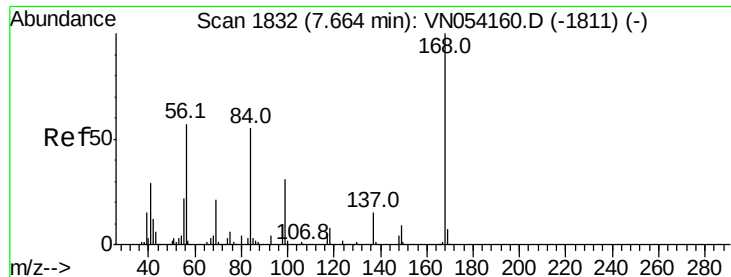
Instrument :
MSVOA_N
Client Sample Id :
VN0318WBSD01

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

VN0318WBSD01

Tot Ion:168 Resp: 1273733

Ion Ratio Lower Upper

168 100

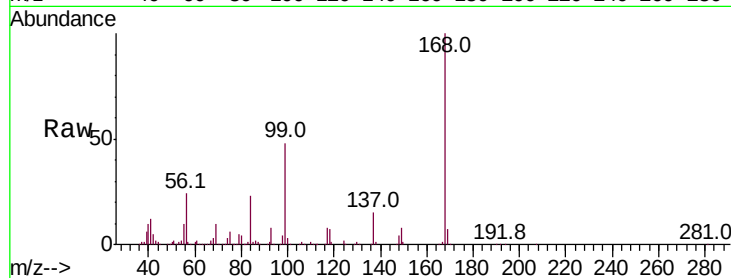
99 46.7 37.1 55.7

Manual Integrations

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3/19/2019 9:24:05 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

600000

500000

400000

300000

200000

100000

0

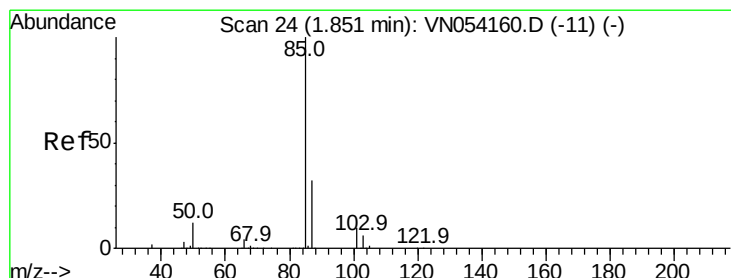
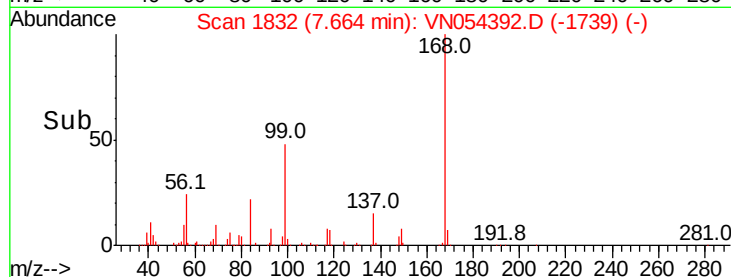
7.66

7.60

7.70

7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 21.009 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN054392.D

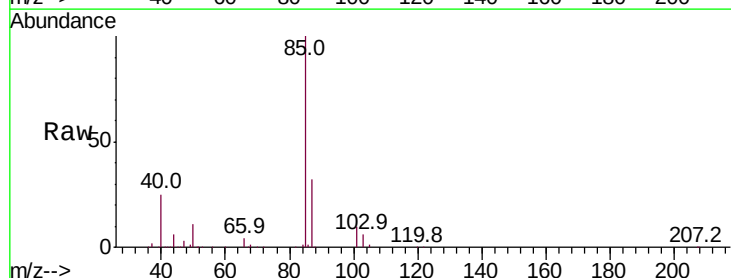
Acq: 18 Mar 2019 14:27

Tgt Ion: 85 Resp: 253616

Ion Ratio Lower Upper

85 100

87 32.0 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

200000

150000

100000

50000

0

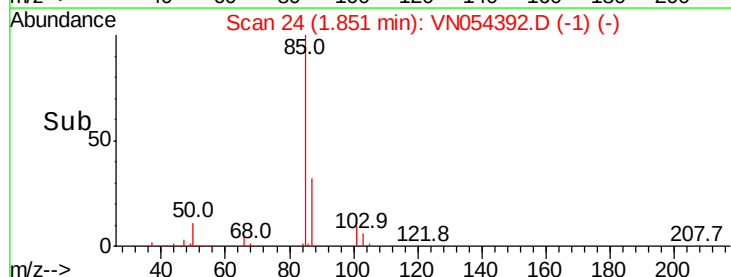
1.85

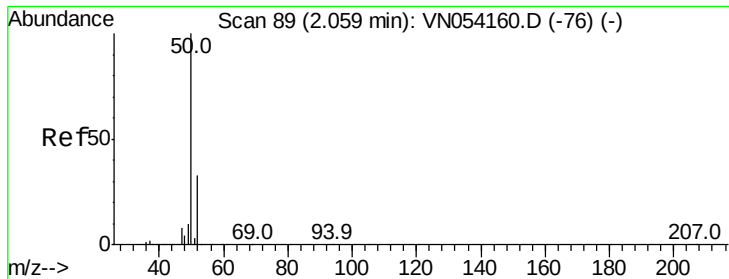
1.80

1.90

1.95

Time-->





#3

Chloromethane

Concen: 19.766 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

ClientSampled :

VN0318WBSD01

Tot Ion: 50 Resp: 231783

Ion Ratio Lower Upper

50 100

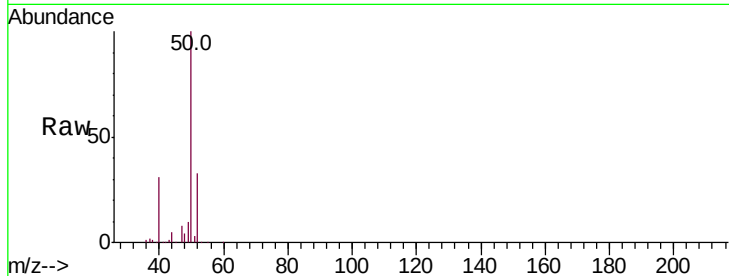
52 33.4 26.4 39.6

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

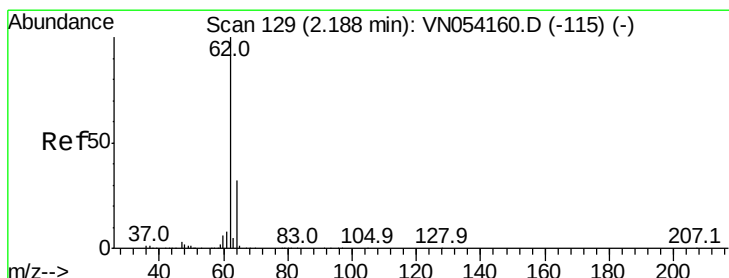
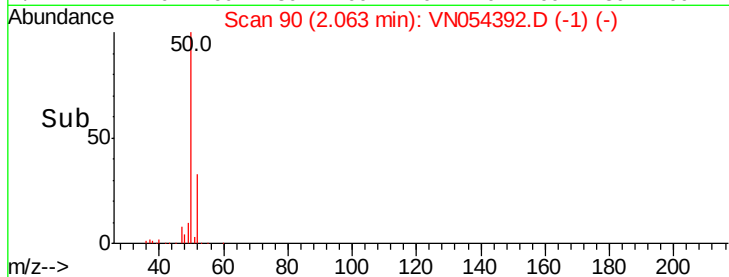
150000

100000

50000

0

Time--> 2.00 2.05 2.10 2.15



#4

Vinyl Chloride

Concen: 19.505 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054392.D

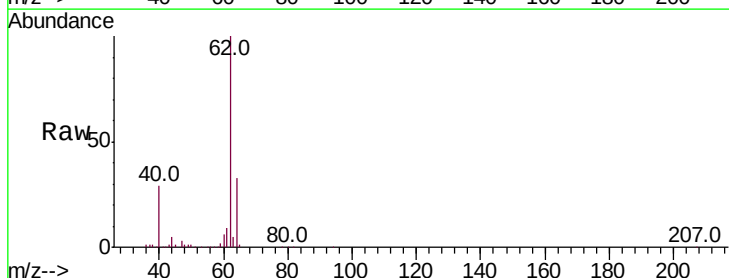
Acq: 18 Mar 2019 14:27

Tgt Ion: 62 Resp: 261425

Ion Ratio Lower Upper

62 100

64 32.6 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.19

200000

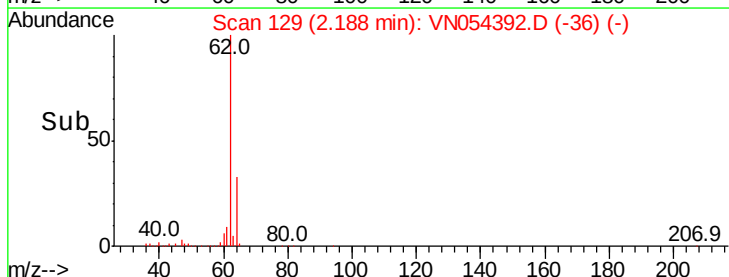
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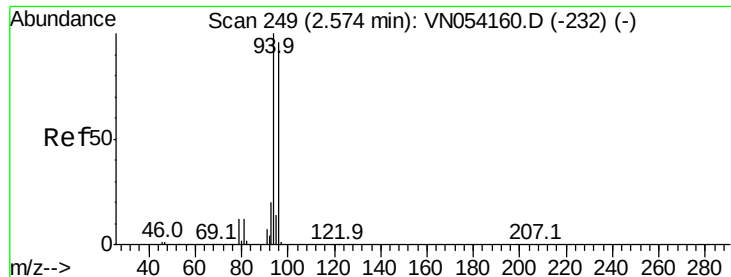
100000

50000

0

Time--> 2.10 2.15 2.20 2.25





#5

Bromomethane

Concen: 18.295 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

VN0318WBSD01

Tot Ion: 94 Resp: 169826

Ion Ratio Lower Upper

94 100

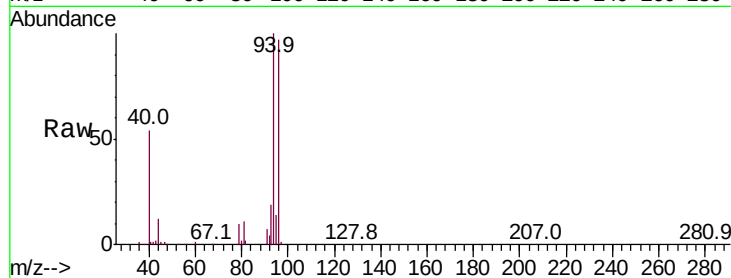
96 97.2 77.0 115.4

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3/19/2019 9:24:05 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

100000

80000

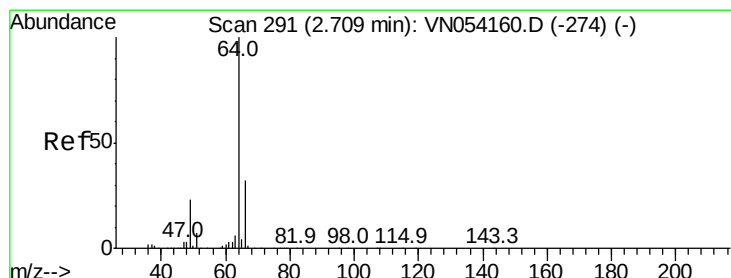
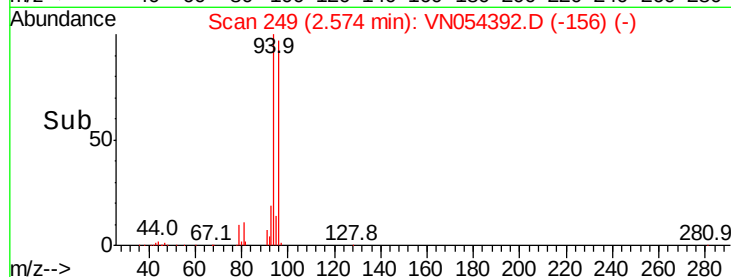
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 19.463 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054392.D

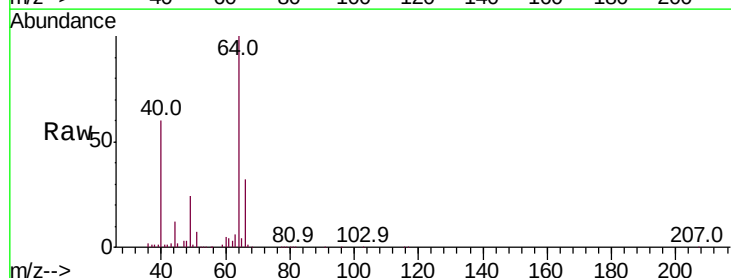
Acq: 18 Mar 2019 14:27

Tgt Ion: 64 Resp: 157829

Ion Ratio Lower Upper

64 100

66 32.1 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.71

80000

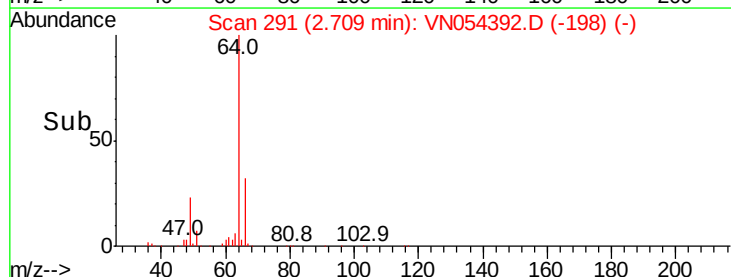
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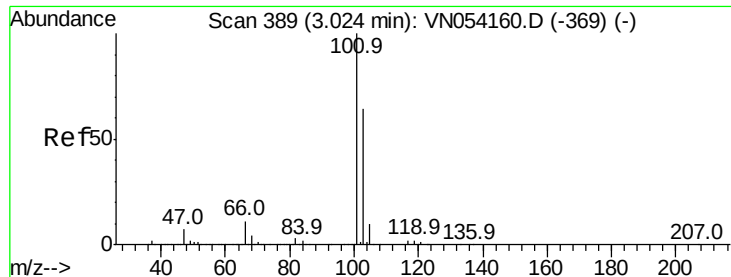
40000

20000

0

Time-->





#7

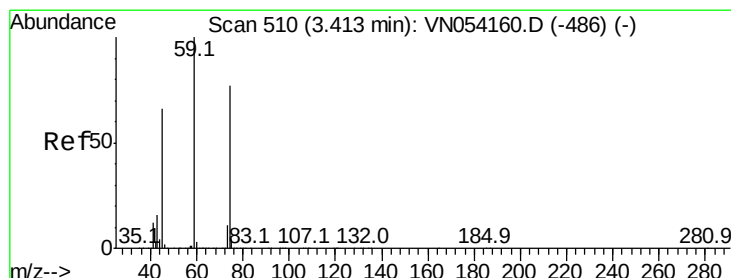
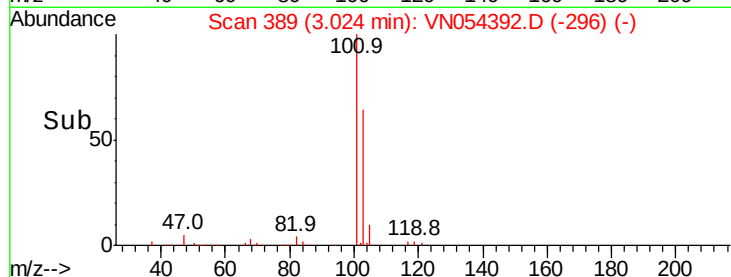
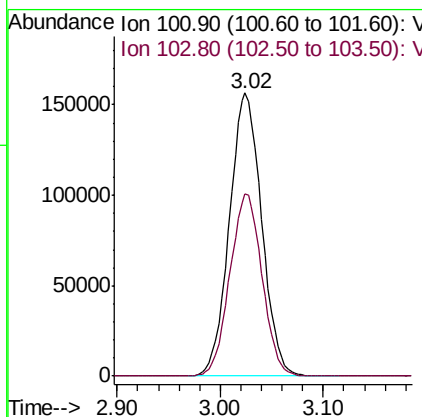
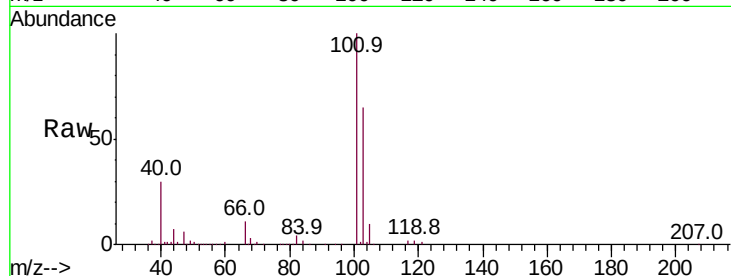
Trichlorofluoromethane
Concen: 19.129 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Instrument :
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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.2

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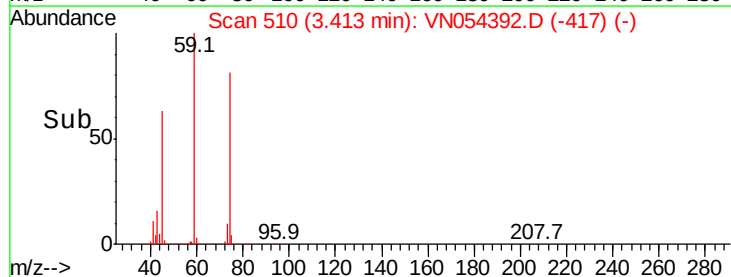
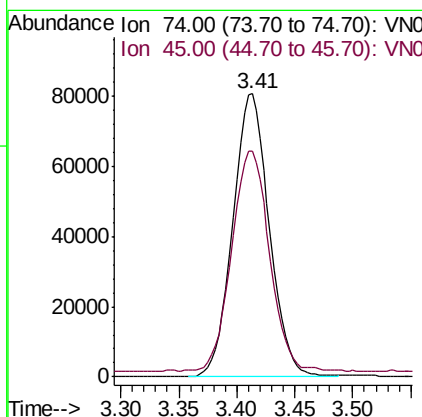
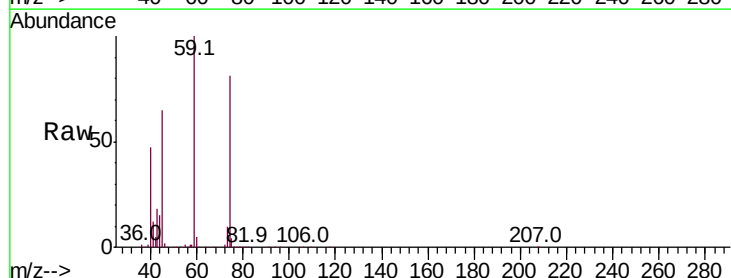
MMDadoda
3/19/2019 9:24:05 AM

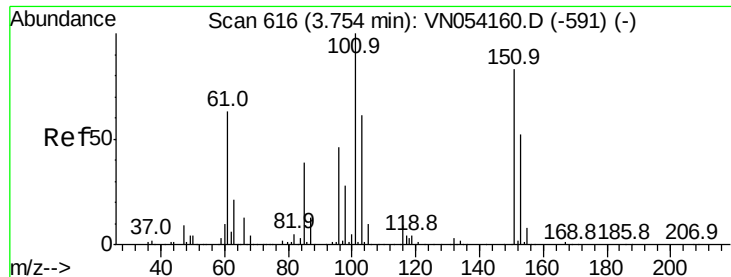


#8

Diethyl Ether
Concen: 21.673 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Tgt Ion	Ratio	Lower	Upper
74	100		
45	80.1	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.754 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

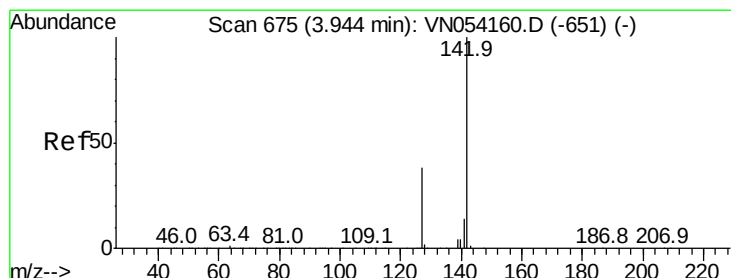
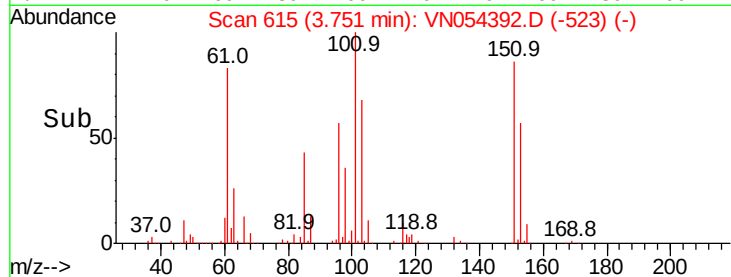
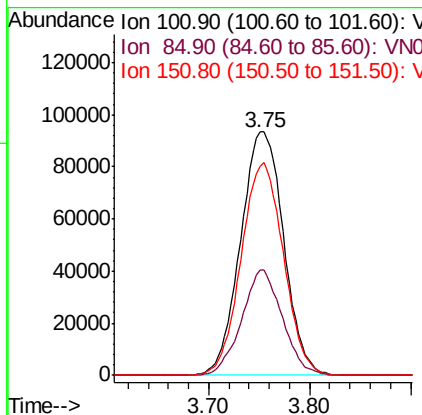
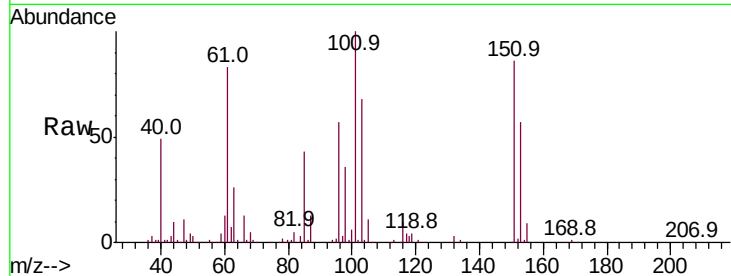
ClientSampleId :

VN0318WBSD01

Tot Ion:	101	Resp:	277137
Ion Ratio	Lower	Upper	
101	100		
85	40.7	32.4	48.6
151	85.8	68.2	102.2

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#10

Methyl Iodide

Concen: 21.116 ug/l

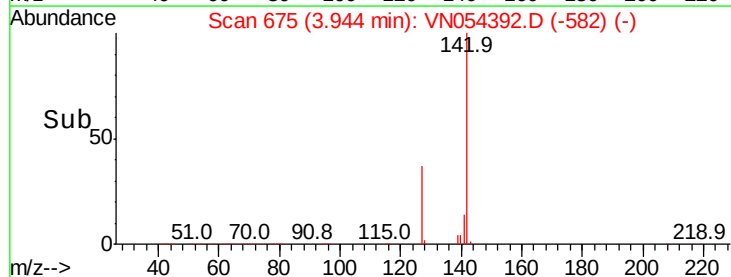
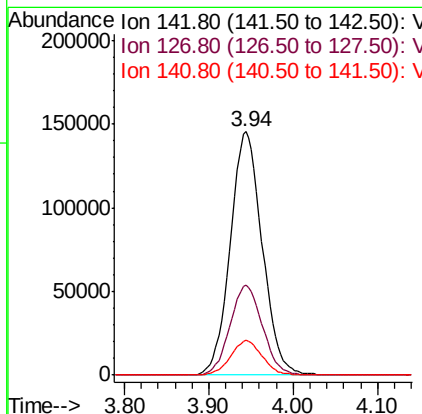
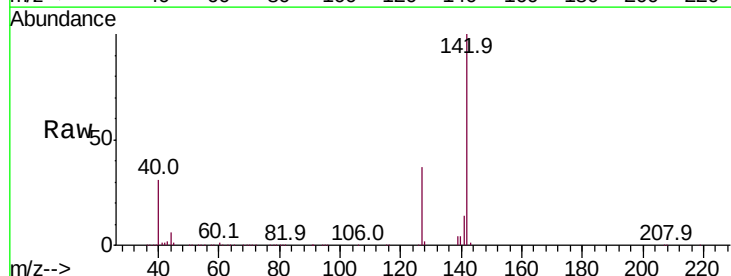
RT: 3.94 min Scan# 675

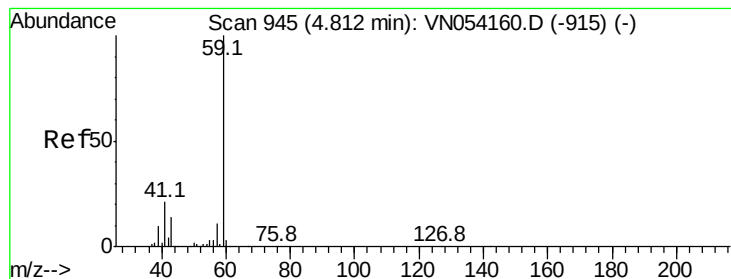
Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Tgt Ion:	142	Resp:	383522
Ion Ratio	Lower	Upper	
142	100		
127	37.5	30.3	45.5
141	14.1	11.2	16.8





#11

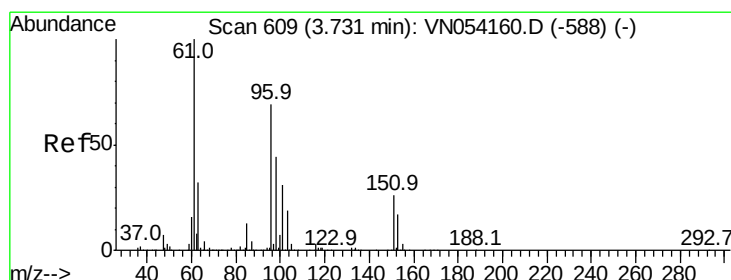
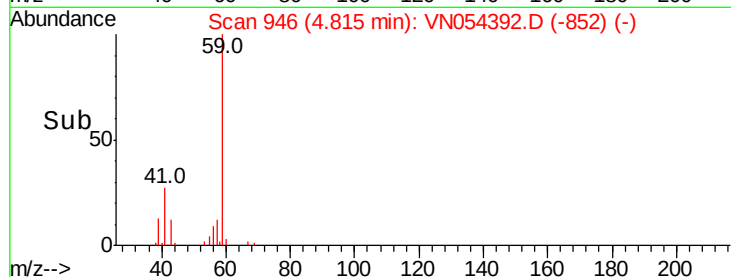
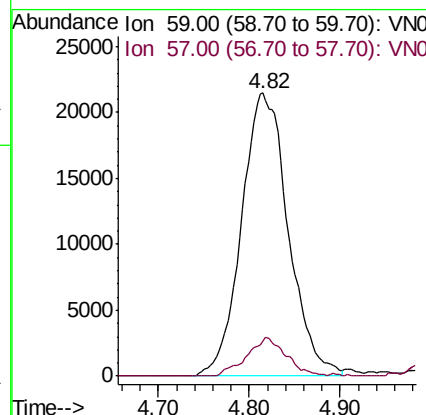
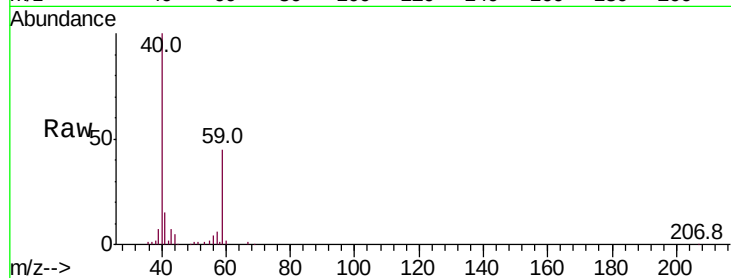
Tert butyl alcohol
 Concen: 82.577 ug/l
 RT: 4.82 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VN054392.D
 Acq: 18 Mar 2019 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318WBSD01

Tot Ion	59	Resp	76577
Ion Ratio	100	Lower	Upper
57	11.6	9.0	13.6

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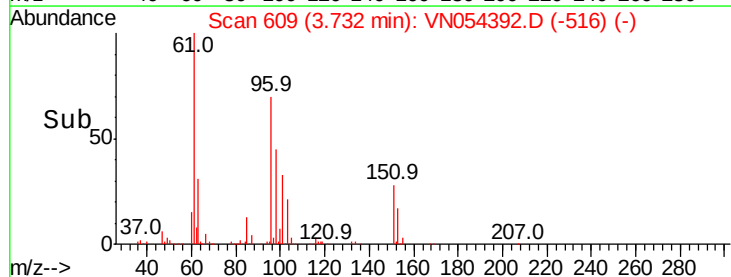
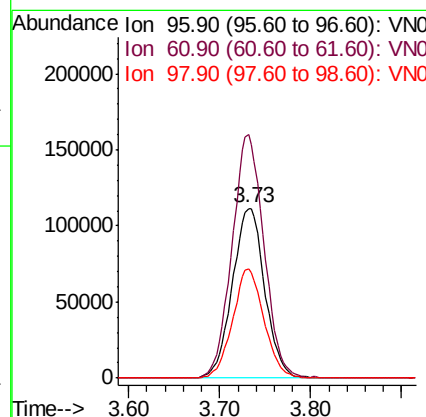
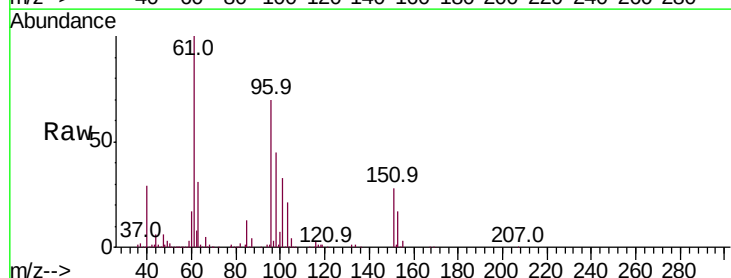
MMDadoda
 3/19/2019 9:24:05 AM

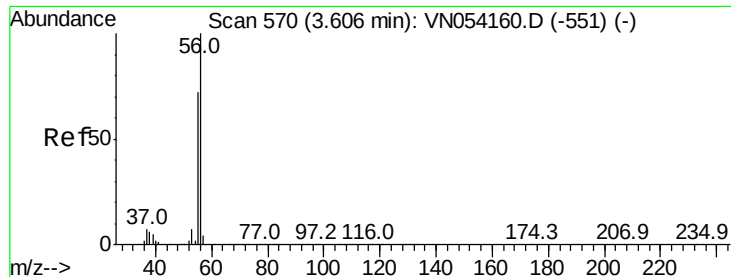


#12

1,1-Dichloroethene
 Concen: 20.743 ug/l
 RT: 3.73 min Scan# 609
 Delta R.T. 0.00 min
 Lab File: VN054392.D
 Acq: 18 Mar 2019 14:27

Tgt Ion	96	Resp	274483
Ion Ratio	100	Lower	Upper
61	143.5	116.5	174.7
98	64.7	51.0	76.4





#13

Acrolein

Concen: 74.523 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

VN0318WBSD01

Tot Ion: 56 Resp: 65486

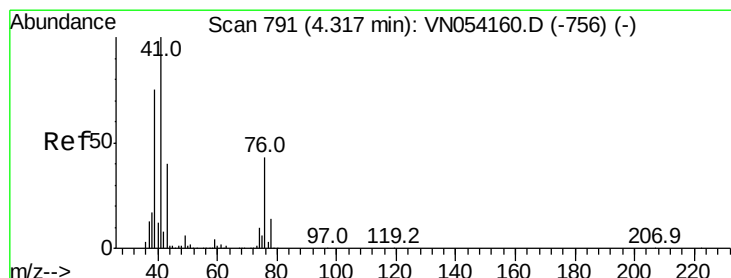
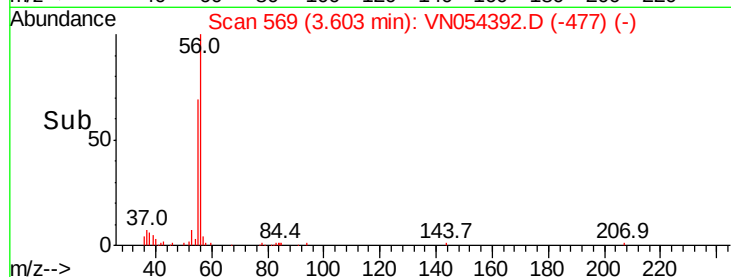
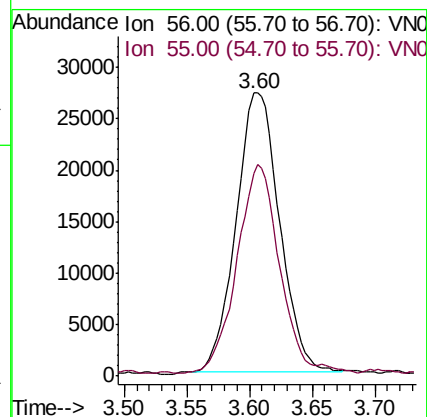
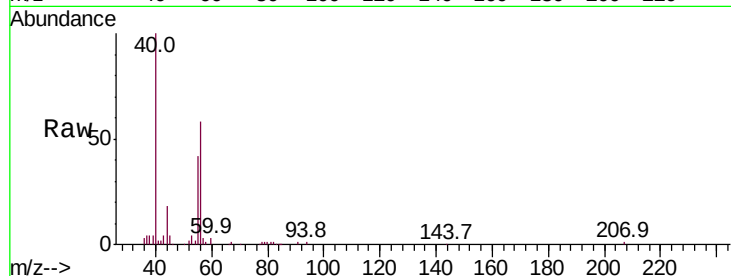
Ion Ratio Lower Upper

56 100

55 71.7 56.7 85.1

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#14

Allyl chloride

Concen: 19.751 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

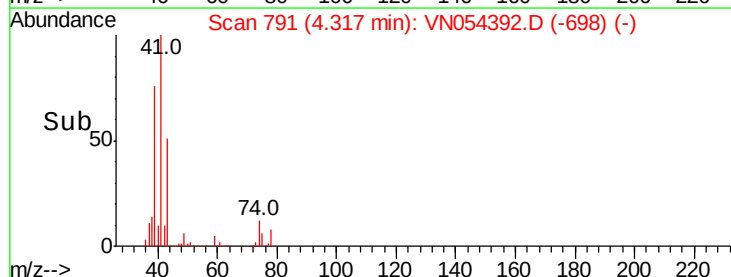
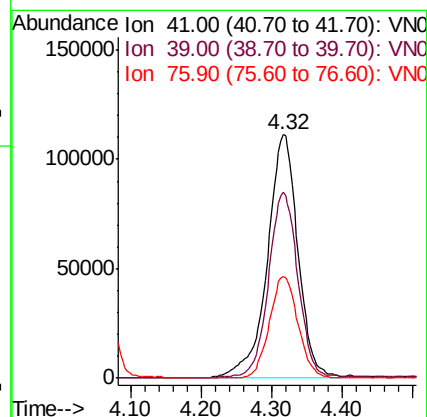
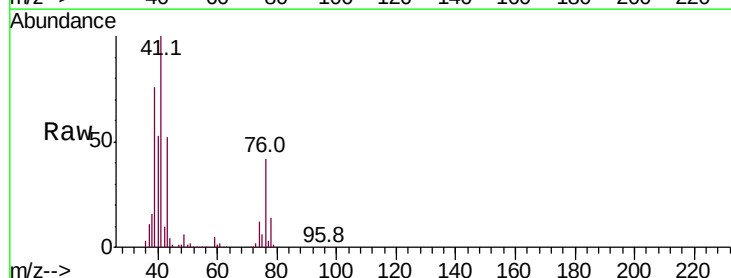
Tgt Ion: 41 Resp: 335330

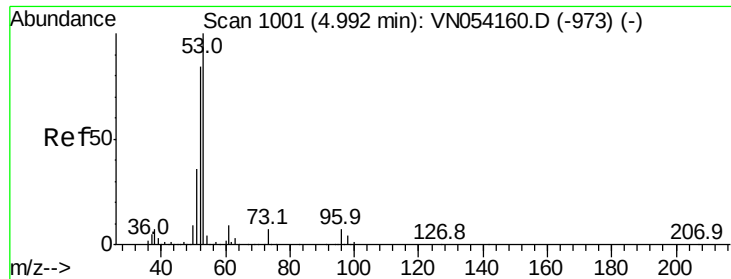
Ion Ratio Lower Upper

41 100

39 74.4 58.2 87.4

76 38.9 31.7 47.5





#15

Acrylonitrile

Concen: 113.730 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

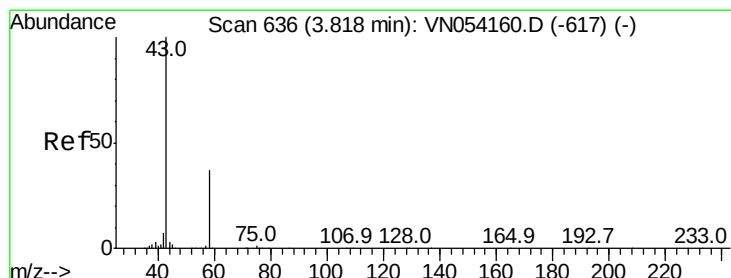
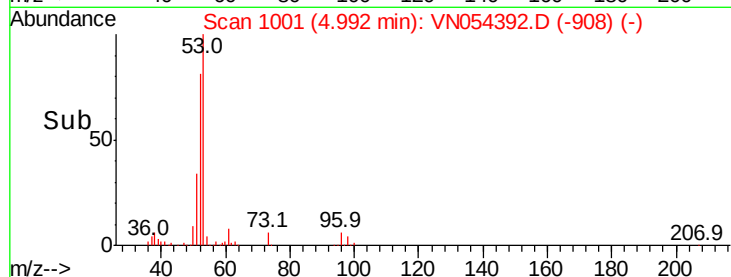
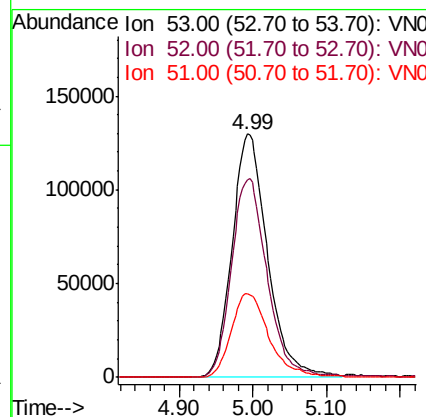
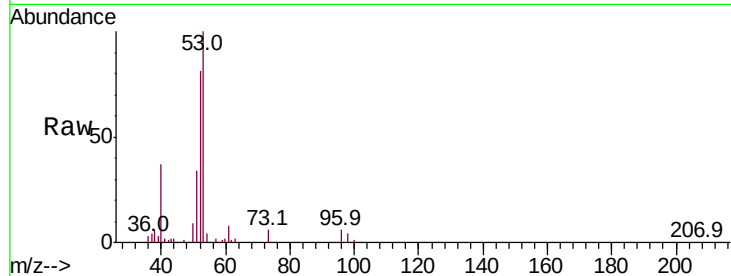
ClientSampleId :

VN0318WBSD01

Tot Ion	53	Resp	433225
Ion	Ratio	Lower	Upper
53	100		
52	82.4	66.4	99.6
51	36.9	29.6	44.4

Manual Integrations
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#16

Acetone

Concen: 77.142 ug/l

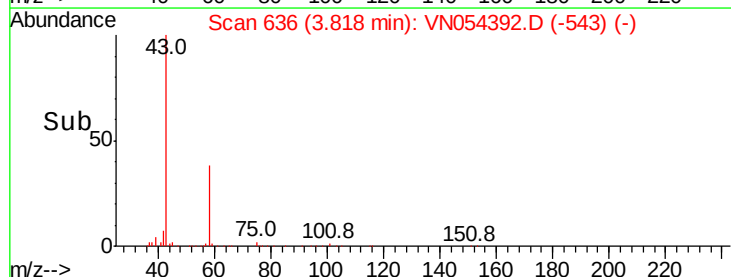
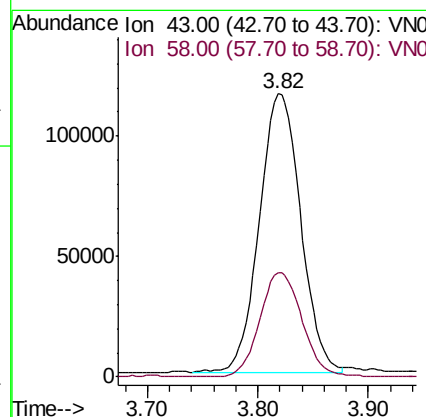
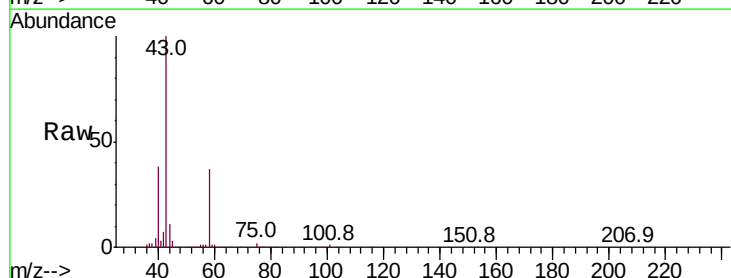
RT: 3.82 min Scan# 636

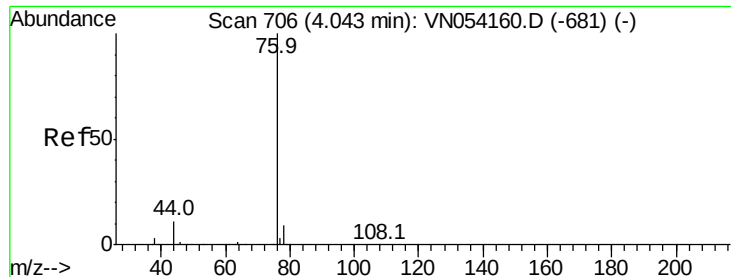
Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Tgt Ion	43	Resp	298778
Ion	Ratio	Lower	Upper
43	100		
58	37.4	29.9	44.9





#17

Carbon Disulfide

Concen: 15.802 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

VN0318WBSD01

Tot Ion: 76 Resp: 524196

Ion Ratio Lower Upper

76 100

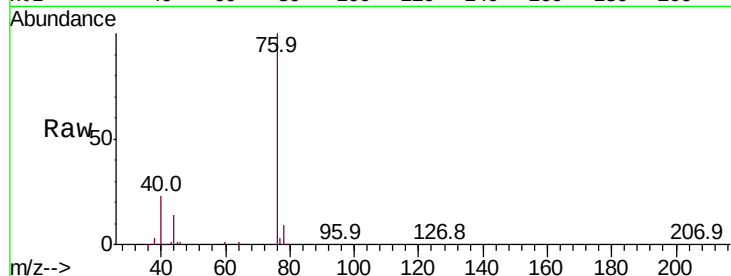
78 9.3 7.5 11.3

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

200000

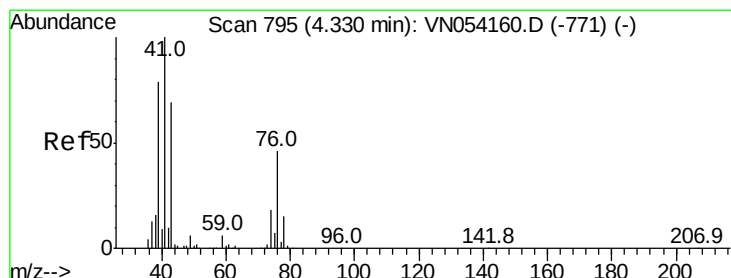
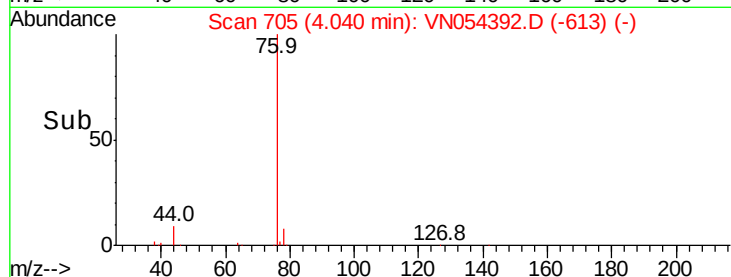
150000

100000

50000

0

Time--> 3.90 4.00 4.10



#18

Methyl Acetate

Concen: 26.341 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054392.D

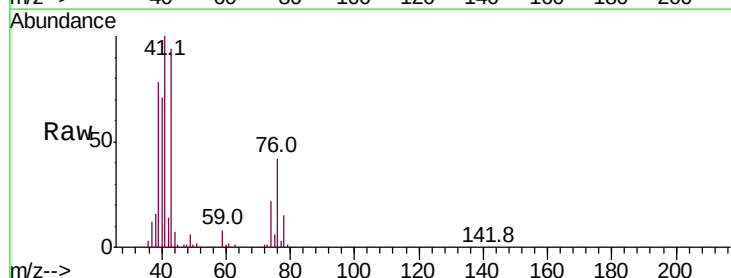
Acq: 18 Mar 2019 14:27

Tgt Ion: 43 Resp: 206407

Ion Ratio Lower Upper

43 100

74 25.7 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

80000

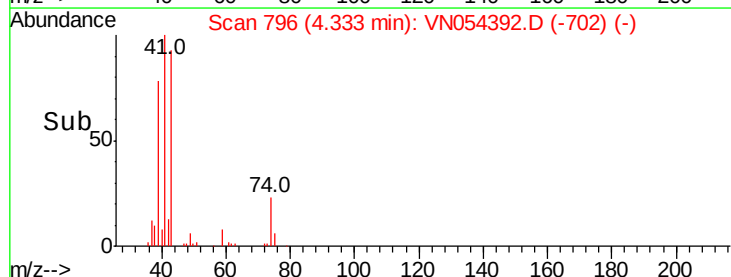
60000

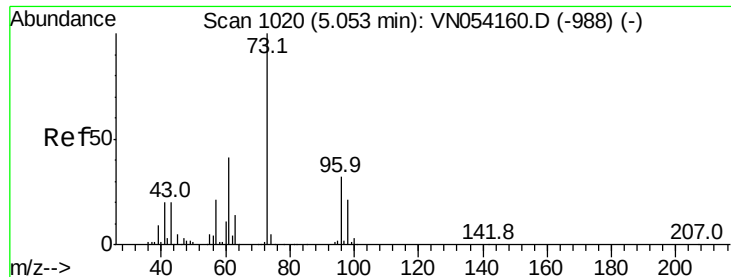
40000

20000

0

Time--> 4.20 4.30 4.40





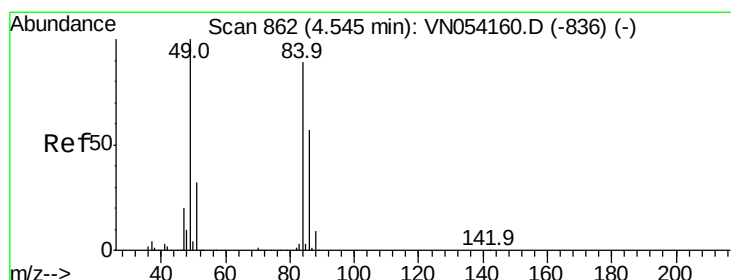
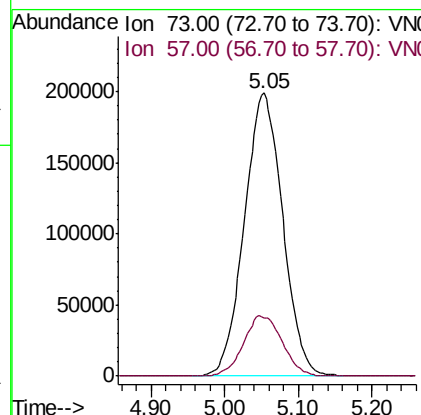
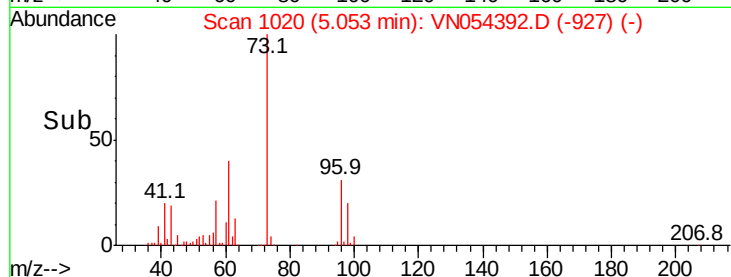
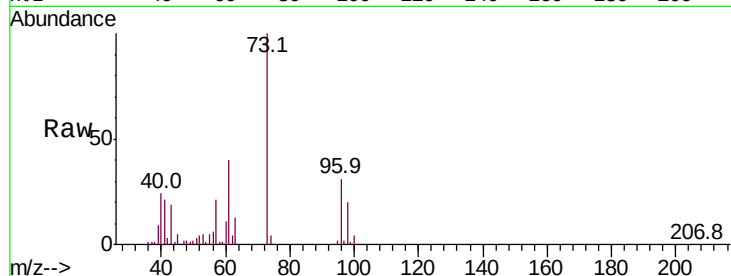
#19
Methvl tert-butvl Ether
Concen: 21.963 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Instrument :
MSVOA_N
ClientSampleId :
VN0318WBSD01

Tot Ion: 73 Resp: 720382
Ion Ratio Lower Upper
73 100
57 20.7 16.8 25.2

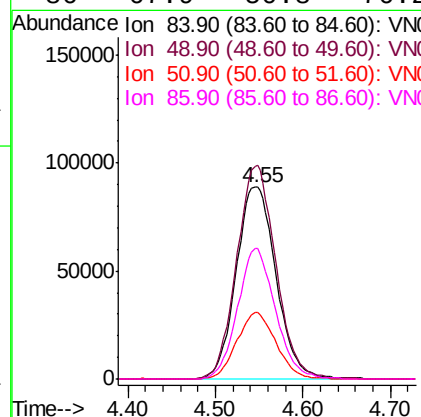
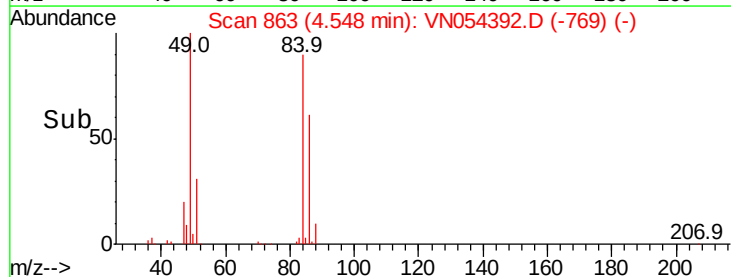
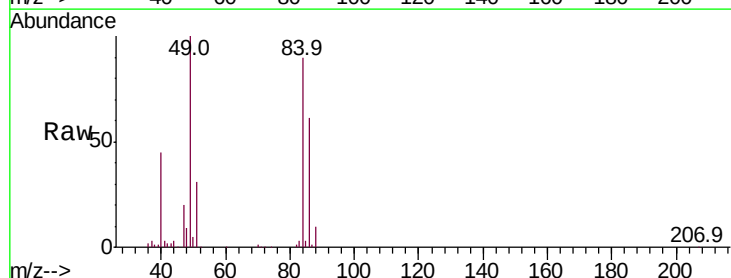
Manual Integrations
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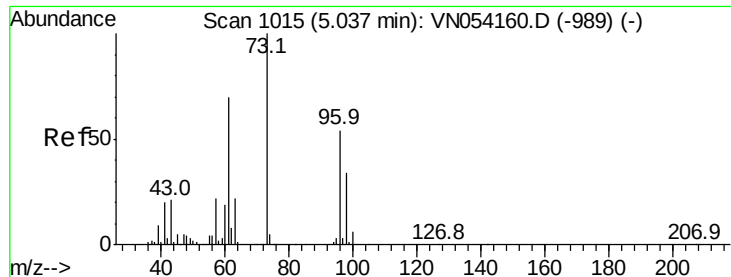
MMDadoda
3/19/2019 9:24:05 AM



#20
Methylene Chloride
Concen: 22.139 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Tgt Ion: 84 Resp: 281555
Ion Ratio Lower Upper
84 100
49 111.4 89.7 134.5
51 34.7 28.2 42.4
86 67.9 50.8 76.2





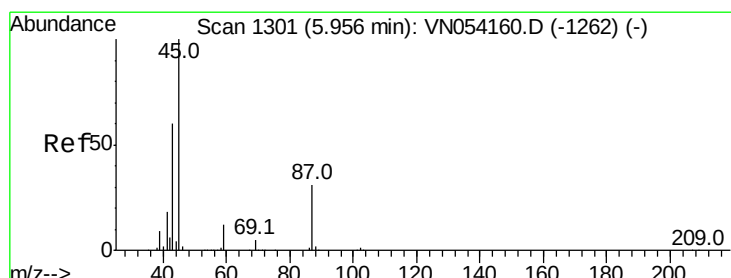
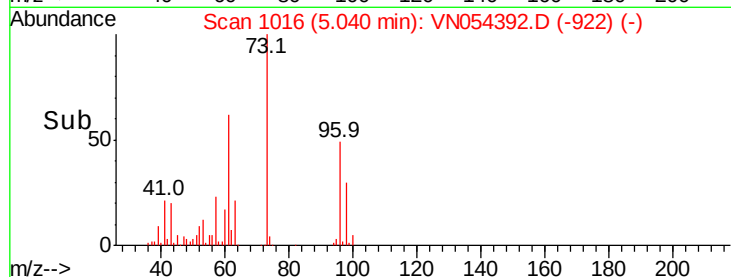
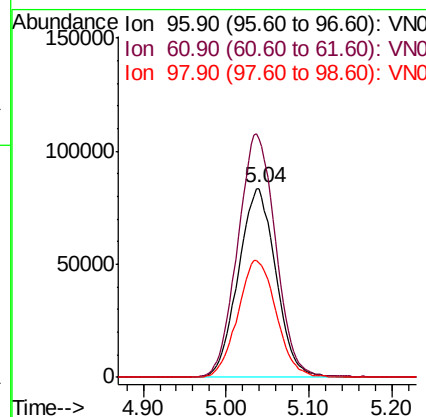
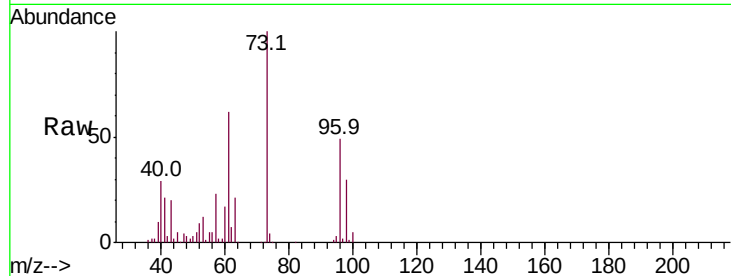
#21
trans-1,2-Dichloroethene
Concen: 20.780 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Instrument :
MSVOA_N
ClientSampleId :
VN0318WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	126.6	102.8	154.2
98	60.8	50.0	75.0

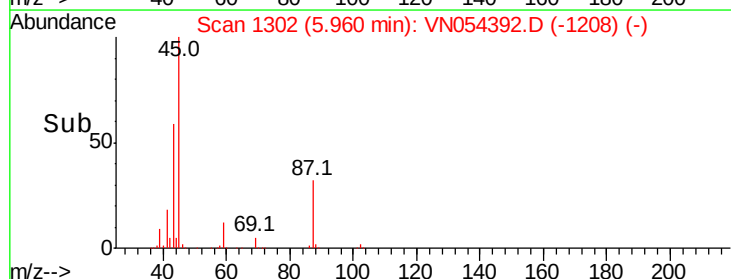
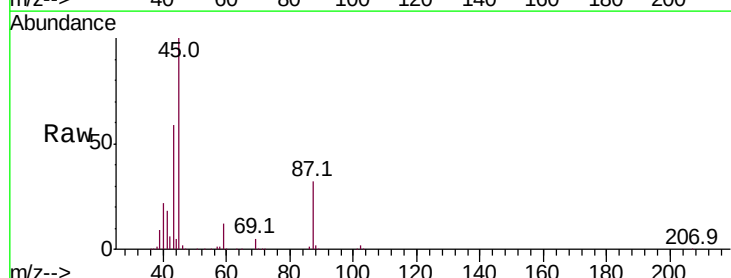
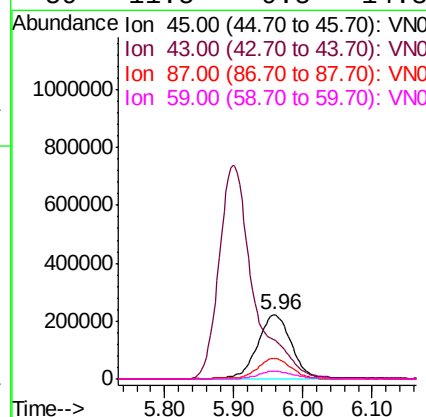
Manual Integrations
APPROVED

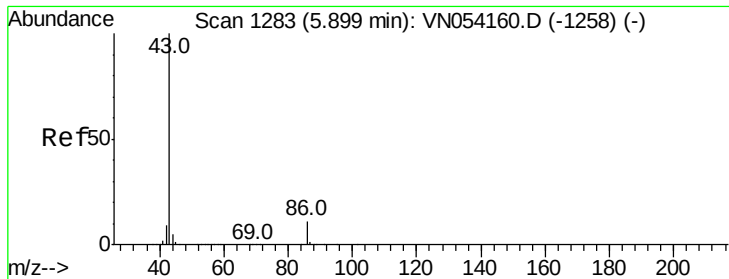
MMDadoda
3/19/2019 9:24:05 AM



#22
Diisopropyl ether
Concen: 22.522 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.9	48.2	72.2
87	32.0	24.9	37.3
59	11.5	9.5	14.3





#23

Vinyl Acetate

Concen: 102.250 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

VN0318WBSD01

Tot Ion: 43 Resp: 2554570

Ion Ratio Lower Upper

43 100

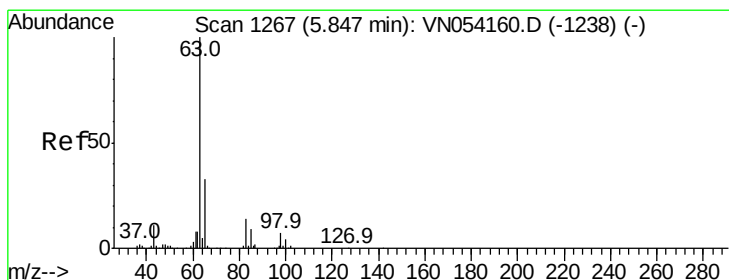
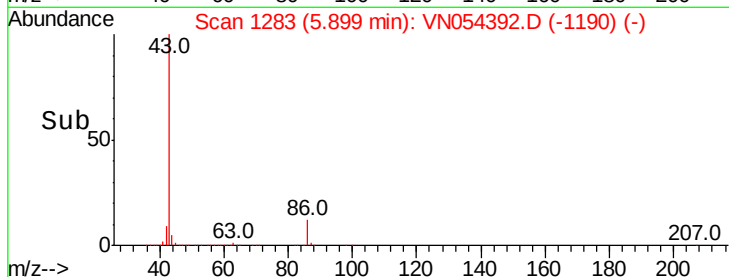
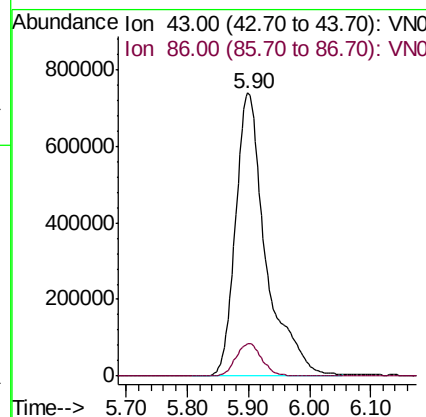
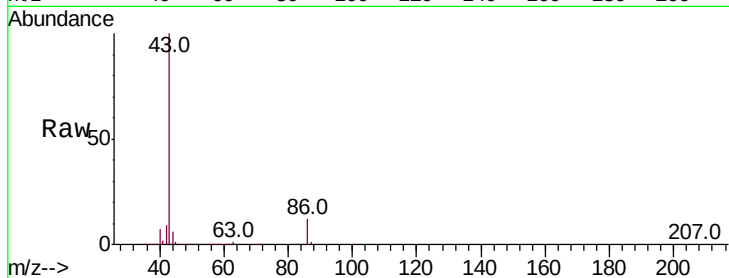
86 11.6 9.1 13.7

Manual Integrations

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MMDadoda

3/19/2019 9:24:05 AM



#24

1,1-Dichloroethane

Concen: 21.915 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

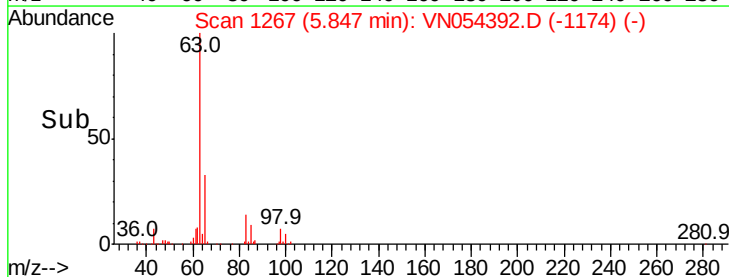
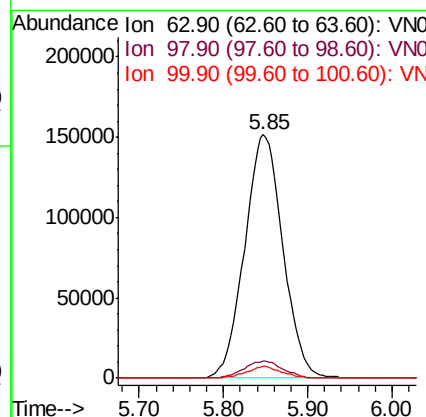
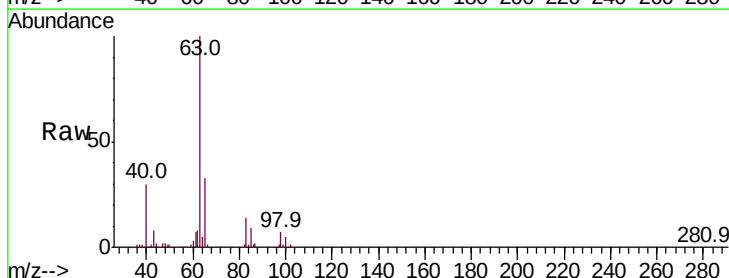
Tgt Ion: 63 Resp: 476807

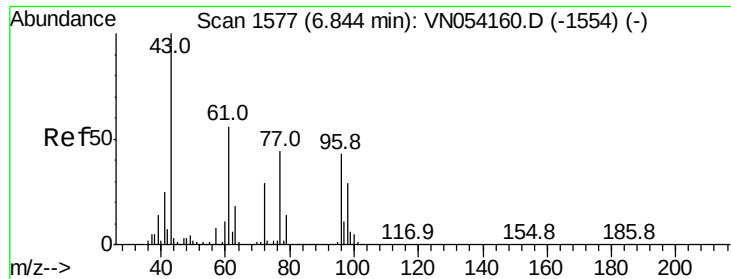
Ion Ratio Lower Upper

63 100

98 6.8 3.5 10.5

100 4.8 2.0 6.0





#25

2-Butanone

Concen: 106.599 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

ClientSampled :

VN0318WBSD01

Tot Ion: 43 Resp: 484582

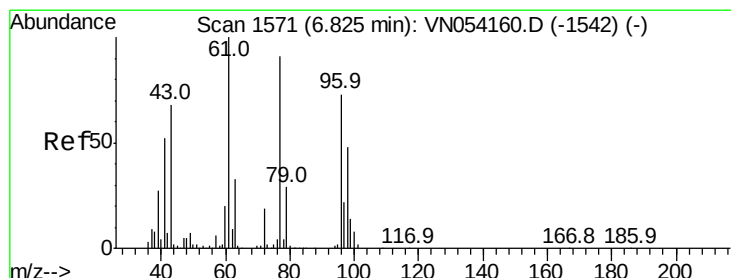
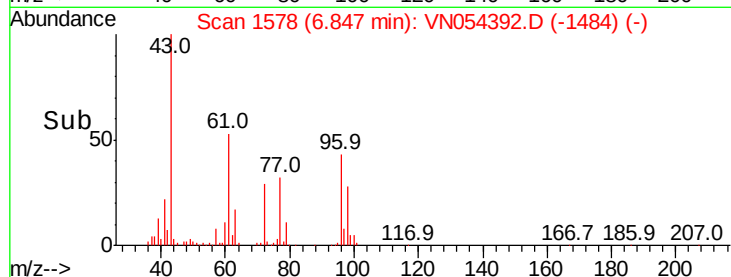
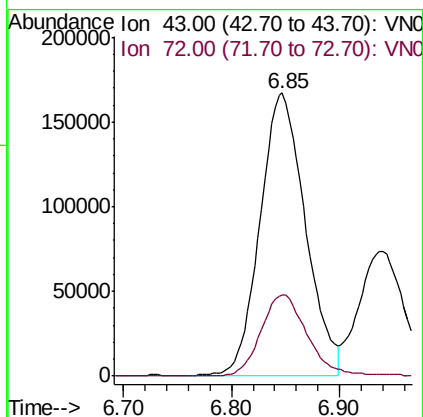
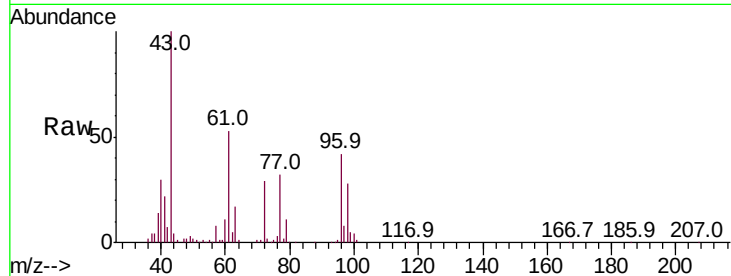
Ion Ratio Lower Upper

43 100

72 28.8 23.0 34.6

Manual Integrations
APPROVED

MMDadoda
3/19/2019 9:24:05 AM



#26

2,2-Dichloropropane

Concen: 16.143 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN054392.D

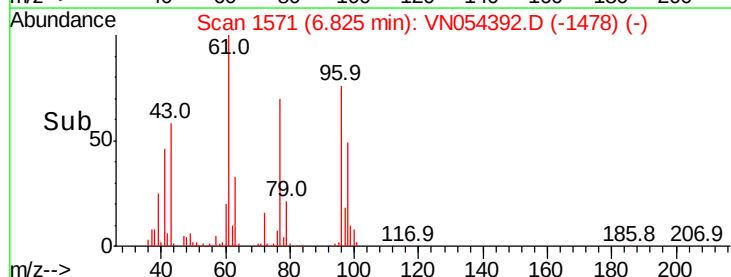
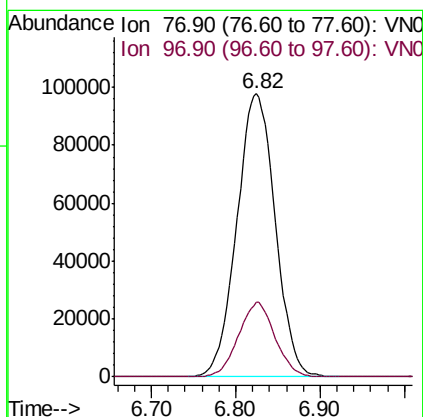
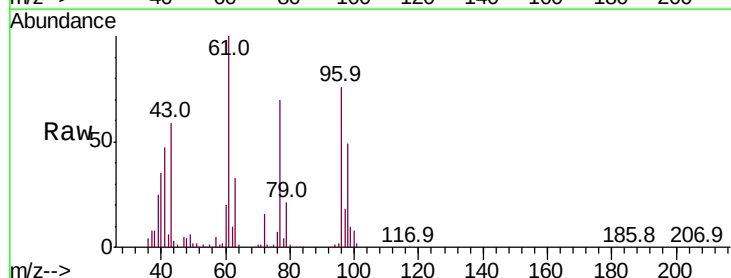
Acq: 18 Mar 2019 14:27

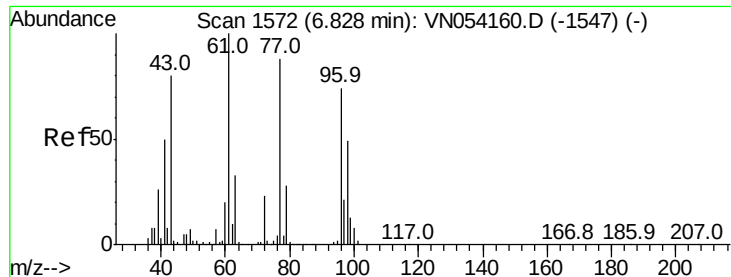
Tgt Ion: 77 Resp: 308856

Ion Ratio Lower Upper

77 100

97 25.0 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 22.448 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

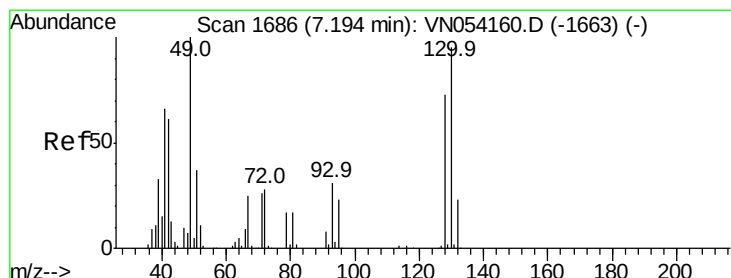
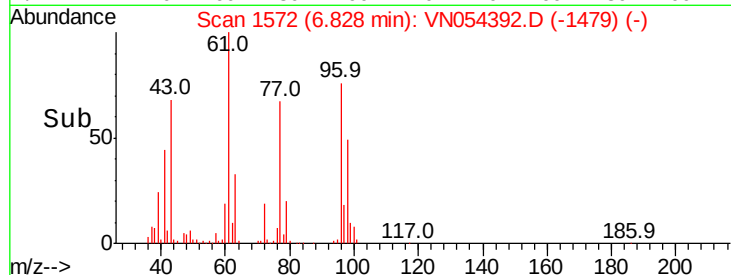
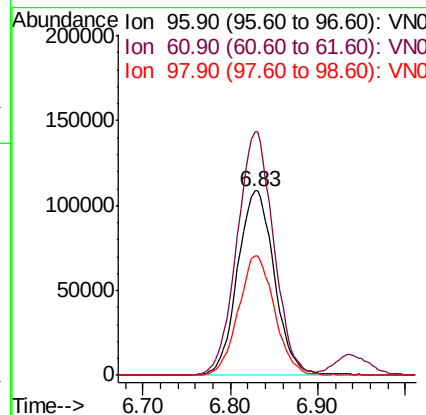
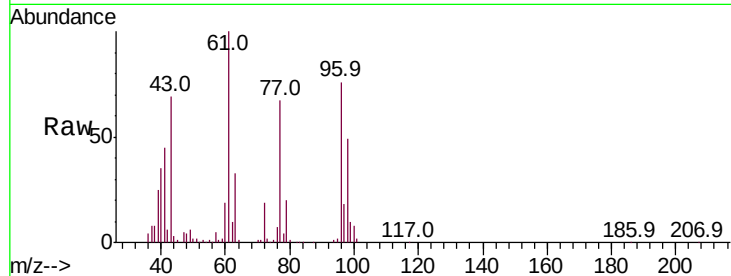
ClientSampleId :

VN0318WBSD01

Tot Ion	96	Resp	317520
Ion	Ratio	Lower	Upper
96	100		
61	131.2	0.0	273.0
98	63.7	0.0	130.6

Manual Integrations
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#28

Bromochloromethane

Concen: 22.073 ug/l

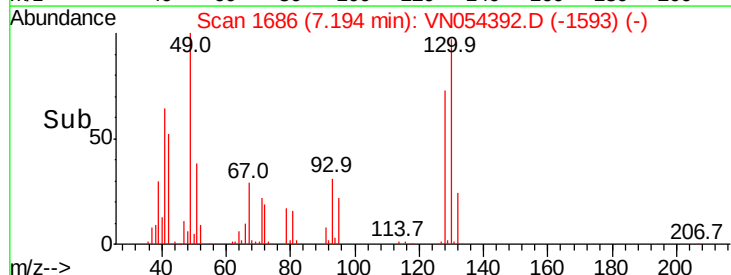
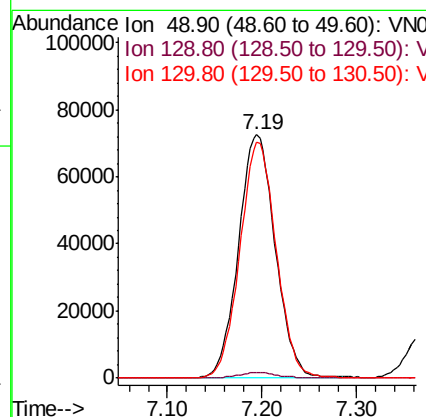
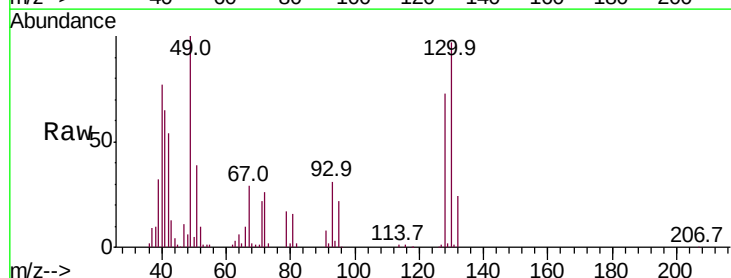
RT: 7.19 min Scan# 1686

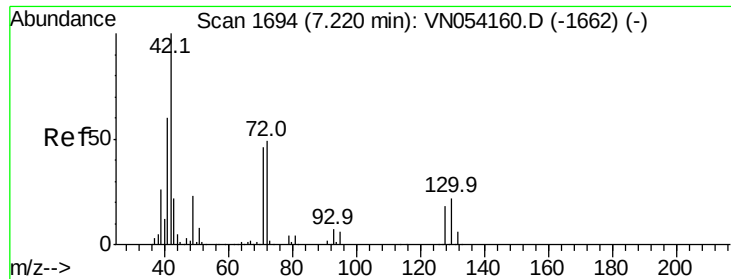
Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Tgt Ion	49	Resp	196328
Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.6
130	95.3	76.7	115.1





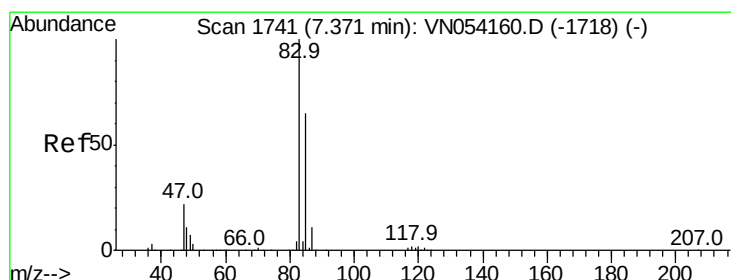
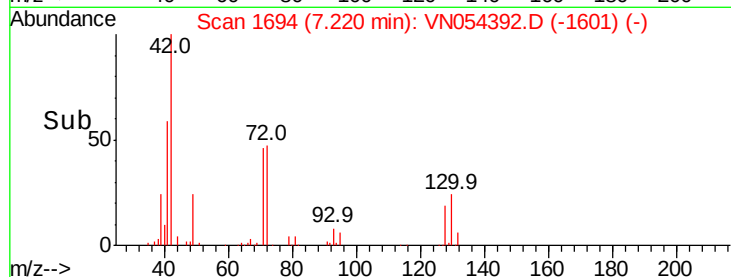
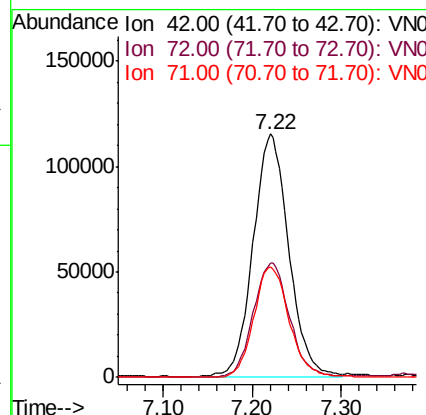
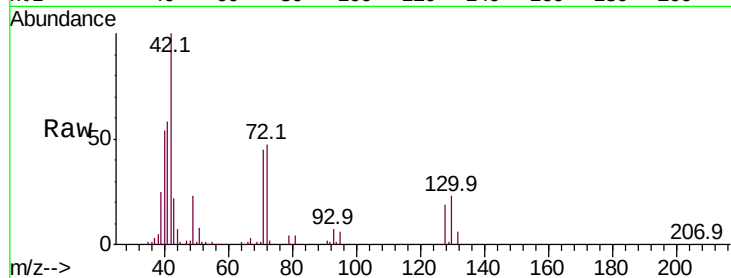
#29
Tetrahydrofuran
Concen: 109.057 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Instrument :
MSVOA_N
ClientSampleId :
VN0318WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.1	37.8	56.6
71	45.5	36.2	54.2

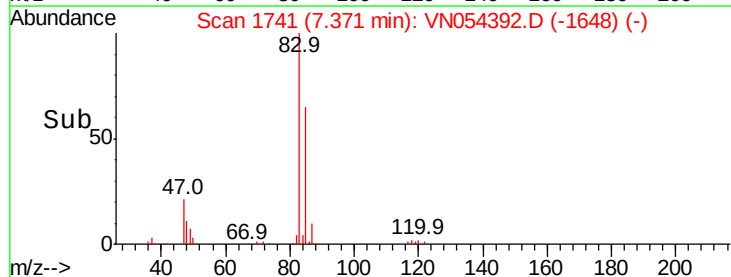
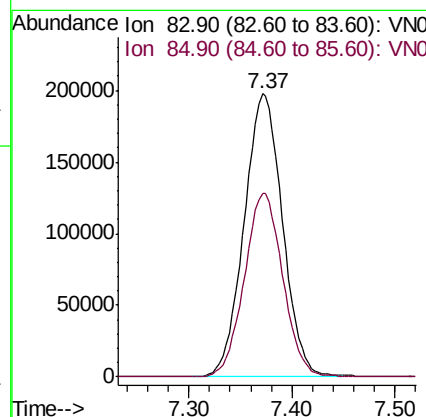
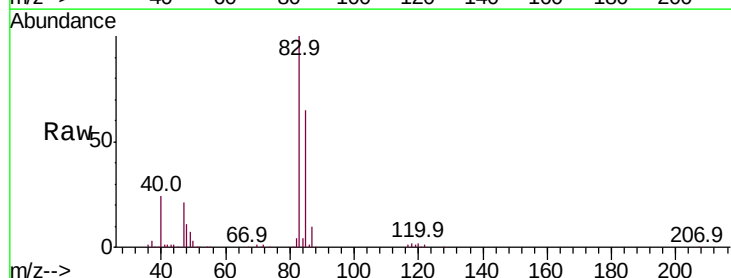
Manual Integrations
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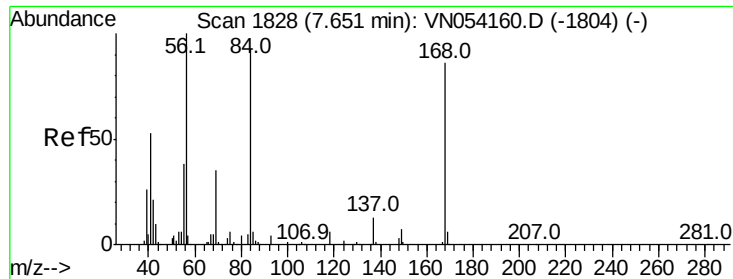
MMDadoda
3/19/2019 9:24:05 AM



#30
Chloroform
Concen: 22.510 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.2	78.4





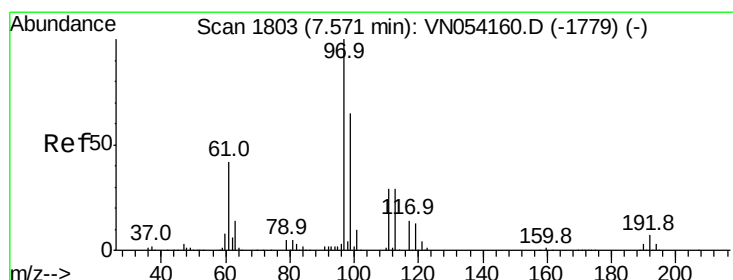
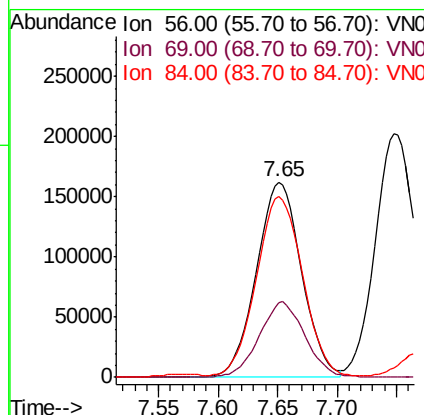
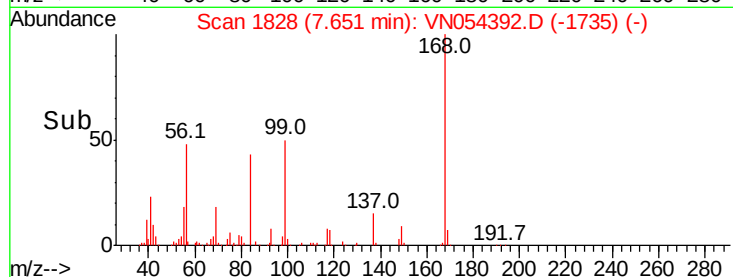
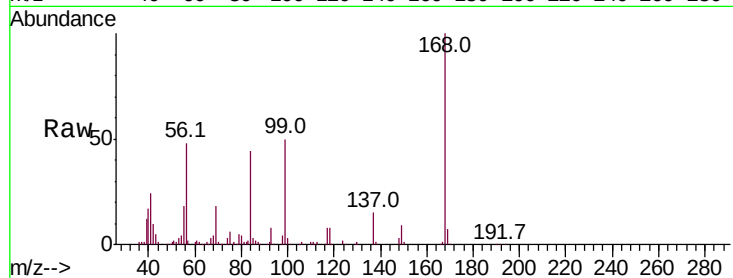
#31
Cyclohexane
Concen: 20.220 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Instrument :
MSVOA_N
ClientSampleId :
VN0318WBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	38.4	27.8	41.6
84	90.9	74.6	111.8

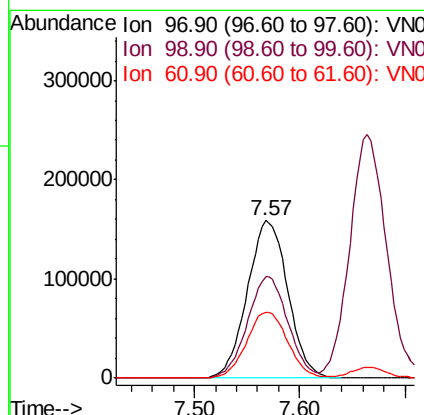
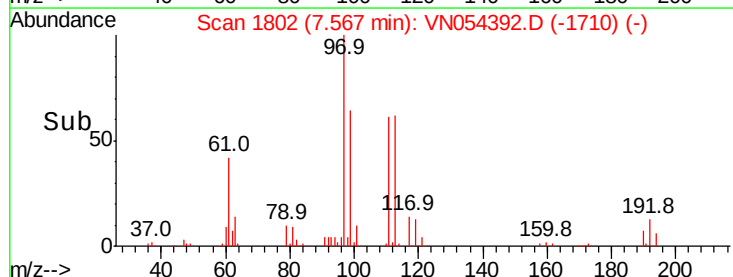
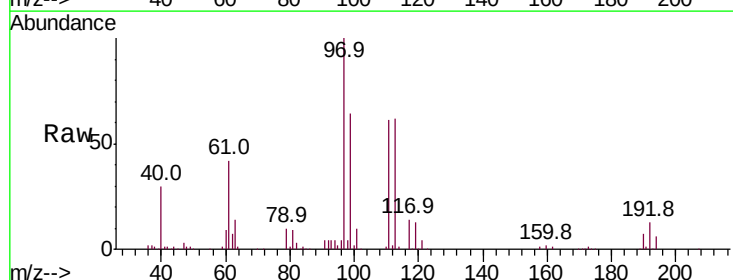
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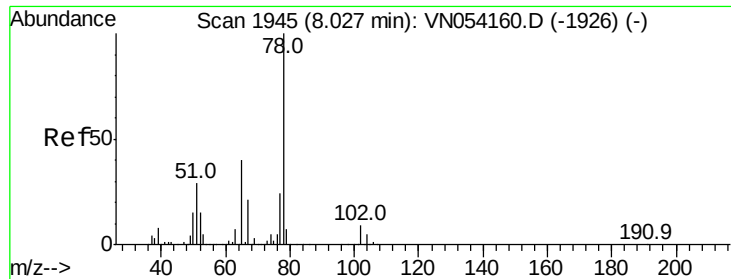
MMDadoda
3/19/2019 9:24:05 AM



#32
1,1,1-Trichloroethane
Concen: 20.692 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.5	77.3
61	42.7	33.6	50.4





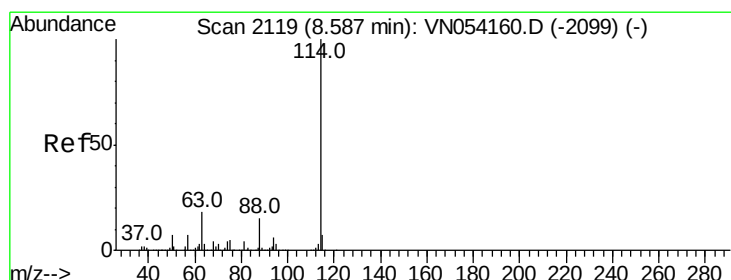
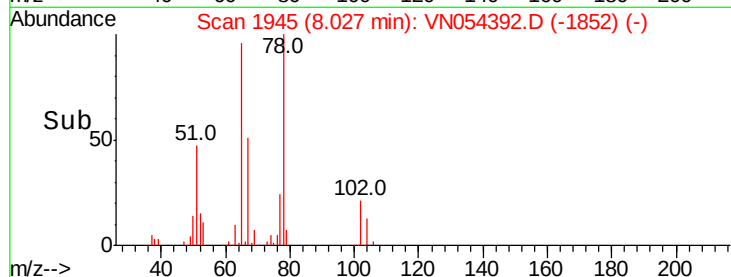
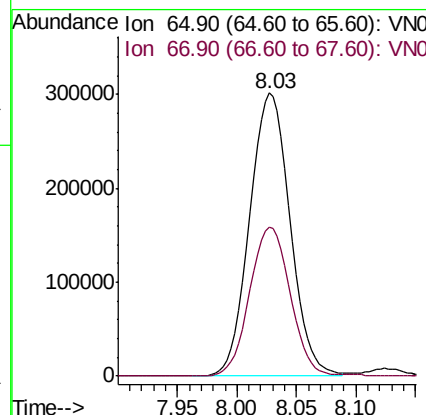
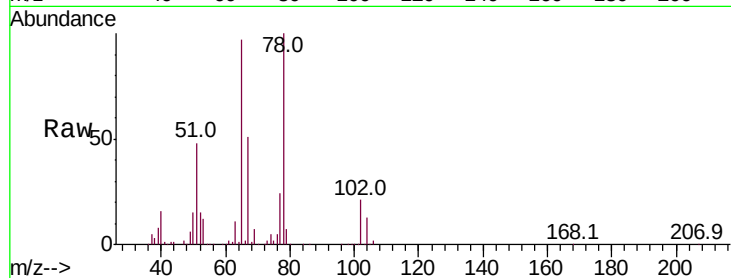
#33
 1,2-Dichloroethane-d4
 Concen: 52.631 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054392.D
 Acq: 18 Mar 2019 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318WBSD01

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	104.6

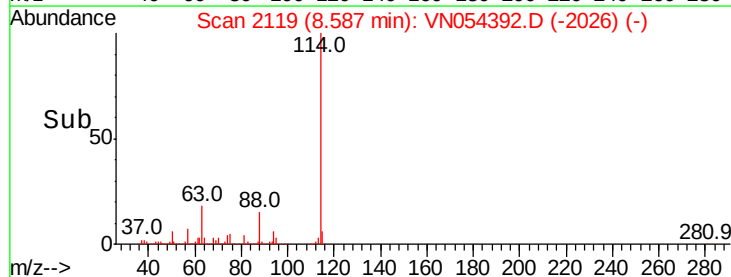
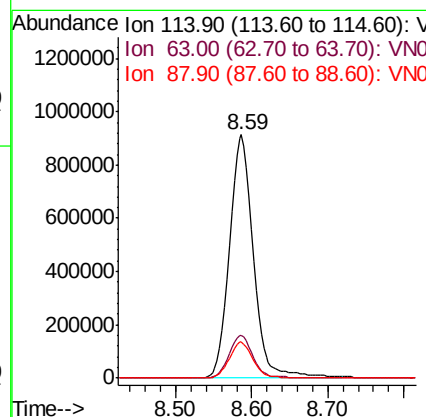
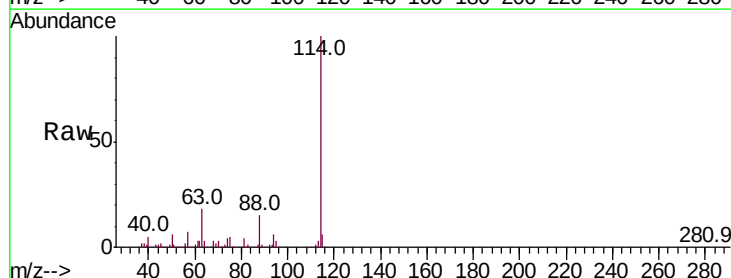
Manual Integrations
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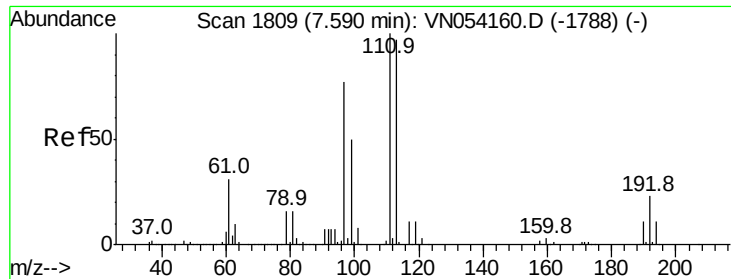
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 3/19/2019 9:24:05 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054392.D
 Acq: 18 Mar 2019 14:27

Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.6	0.0	35.2
88	14.7	0.0	30.2





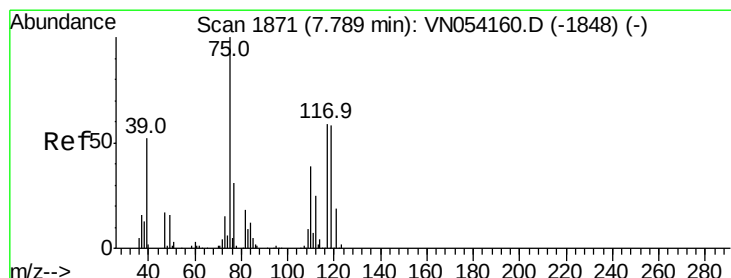
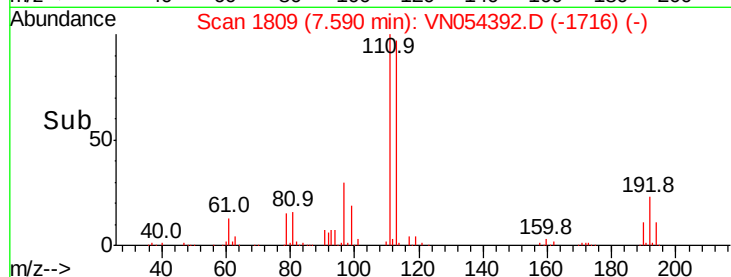
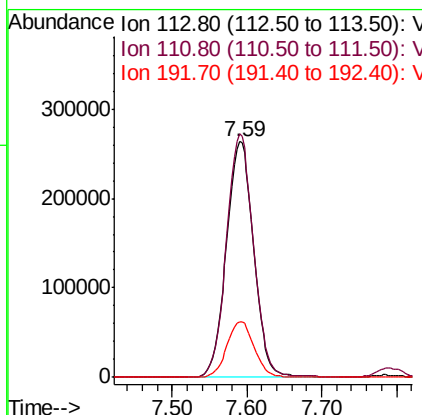
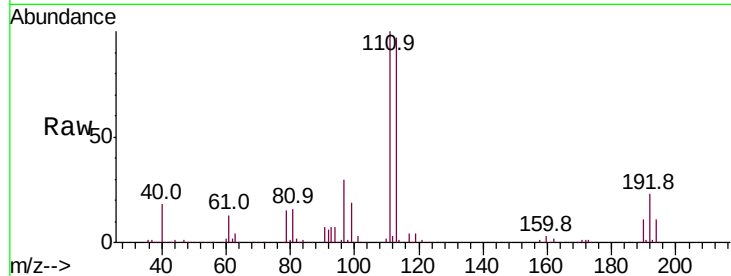
#35
Dibromofluoromethane
Concen: 51.586 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Instrument :
MSVOA_N
ClientSampleId :
VN0318WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	668998		
111	101.7	82.2	123.4	
192	23.6	19.2	28.8	

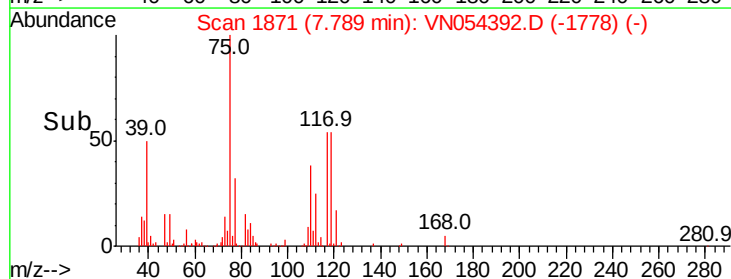
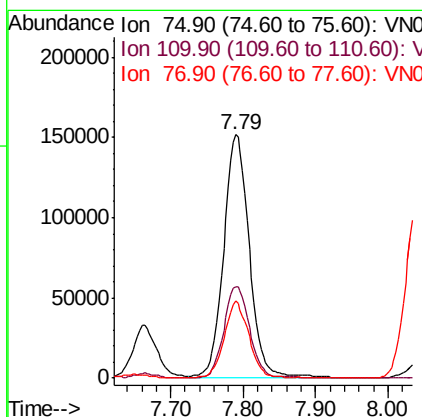
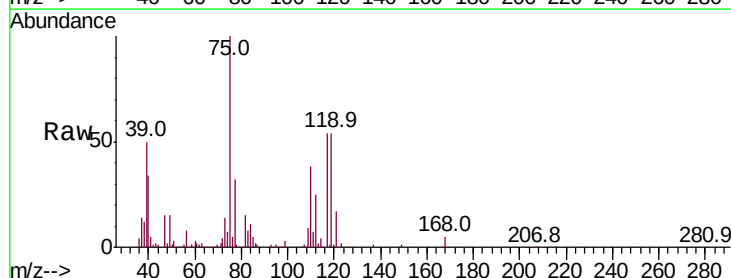
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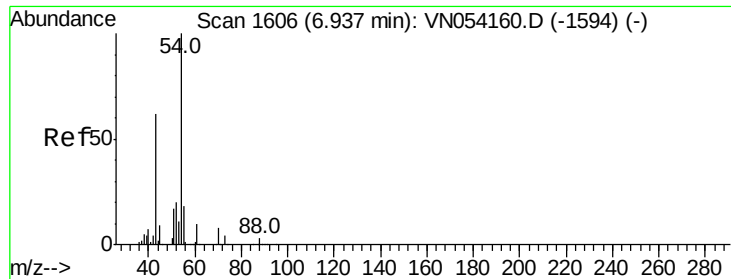
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#36
1,1-Dichloropropene
Concen: 20.033 ug/l
RT: 7.79 min Scan# 1871
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	370955		
110	37.4	19.1	57.5	
77	30.7	25.0	37.4	





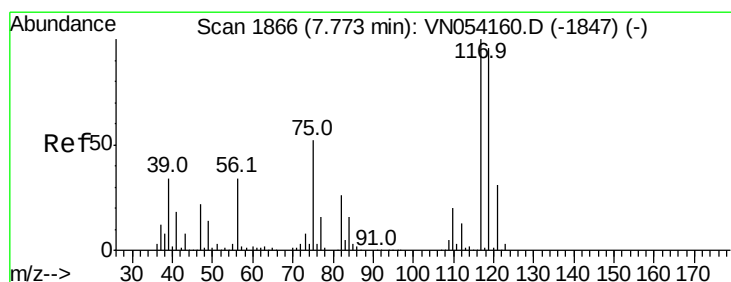
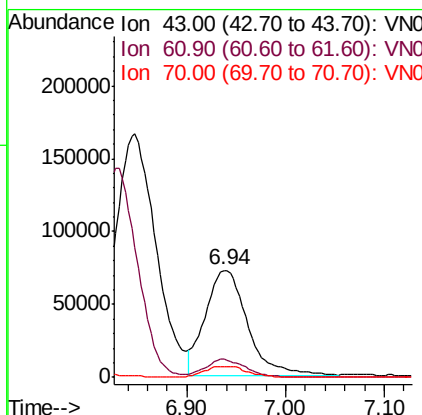
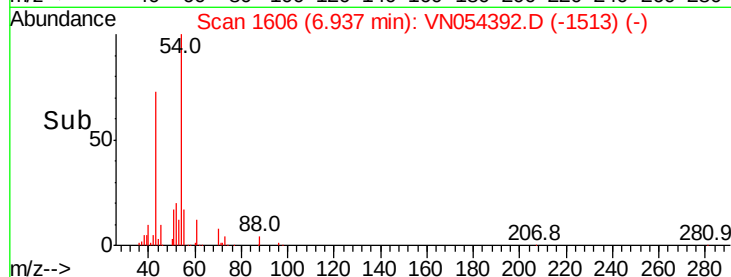
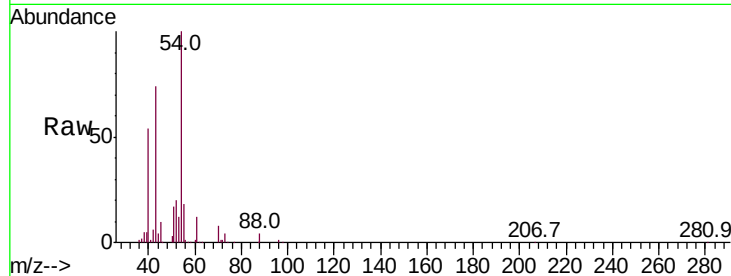
#37
Ethyl Acetate
Concen: 20.329 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Instrument :
MSVOA_N
ClientSampleId :
VN0318WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.8	17.6
70	10.7	8.4	12.6

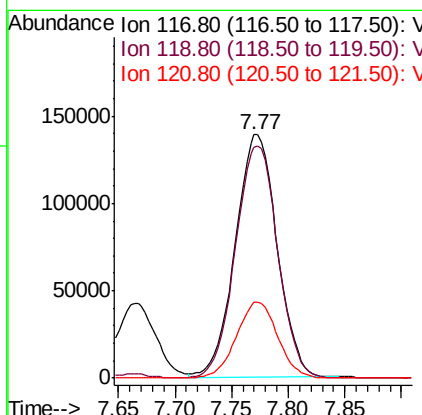
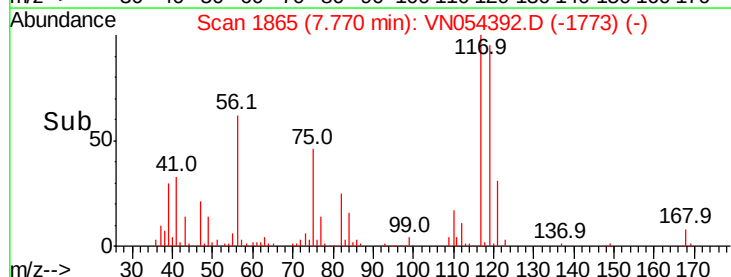
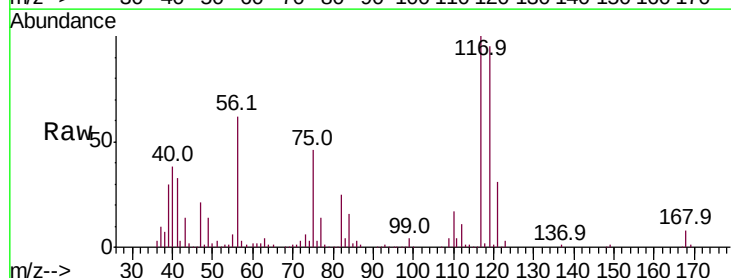
Manual Integrations
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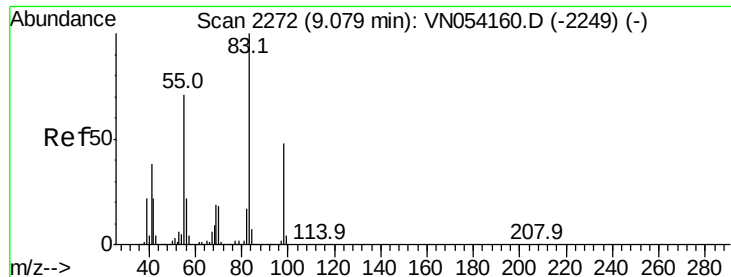
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#38
Carbon Tetrachloride
Concen: 18.397 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.0	76.3	114.5
121	31.2	24.6	36.8





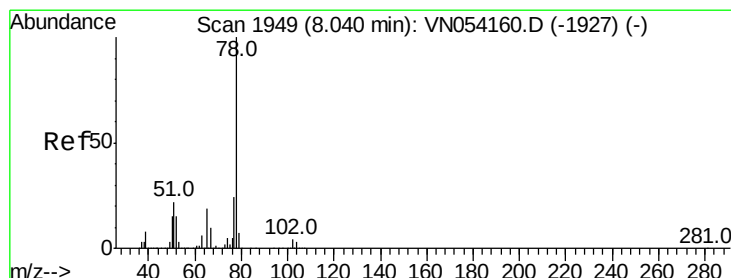
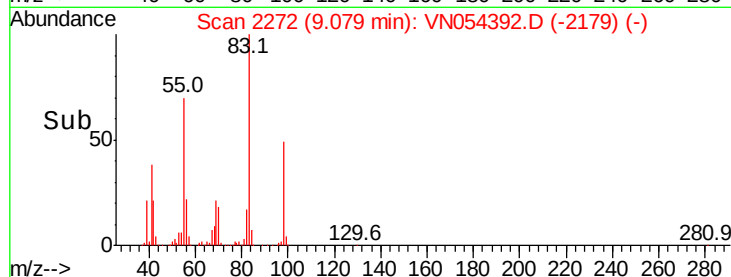
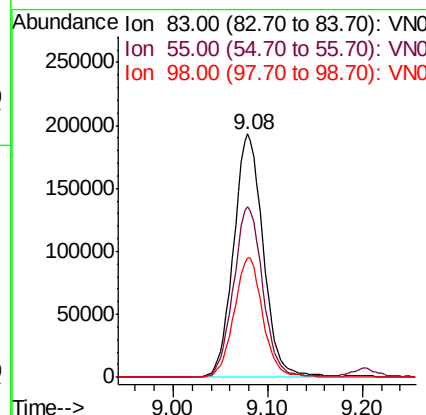
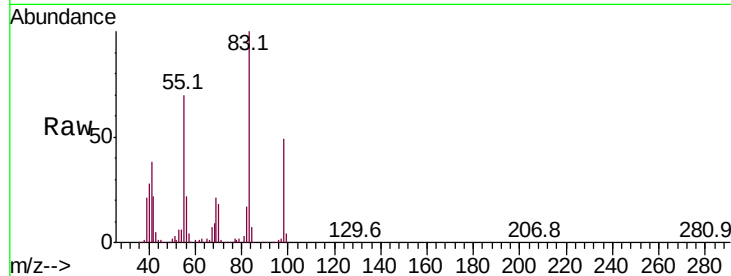
#39
Methylvlcyclohexane
Concen: 18.479 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Instrument :
MSVOA_N
ClientSampleId :
VN0318WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	69.9	56.6	84.8
98	49.2	38.4	57.6

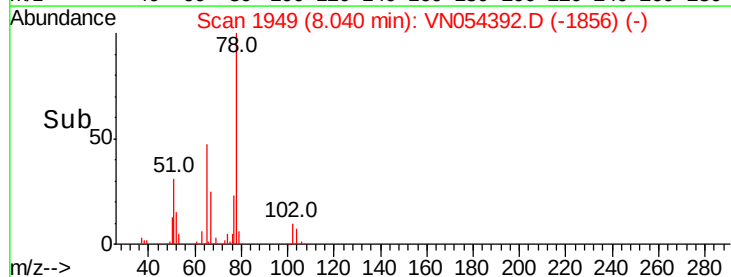
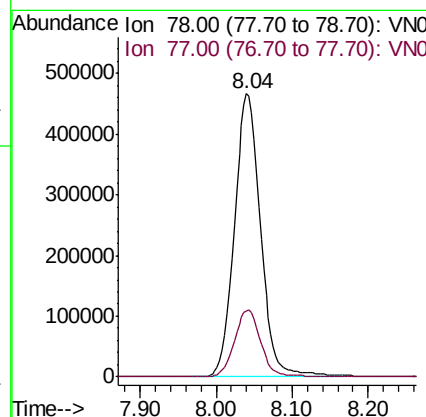
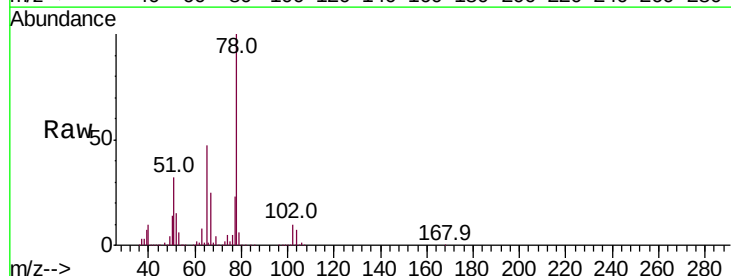
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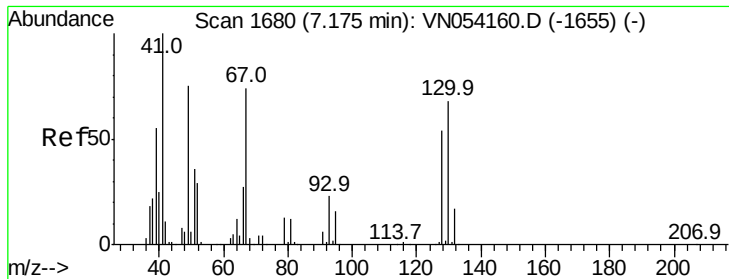
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#40
Benzene
Concen: 21.059 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.1	28.7





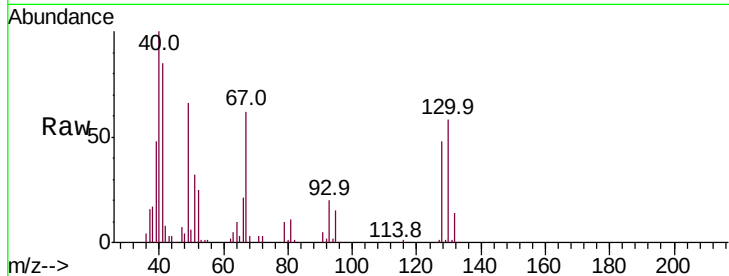
#41
Methacrylonitrile
Concen: 18.227 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Instrument :
MSVOA_N
ClientSampleId :
VN0318WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	63.6	46.8	70.2	
67	93.8	67.0	100.4	
52	38.4	26.5	39.7	

Manual Integrations
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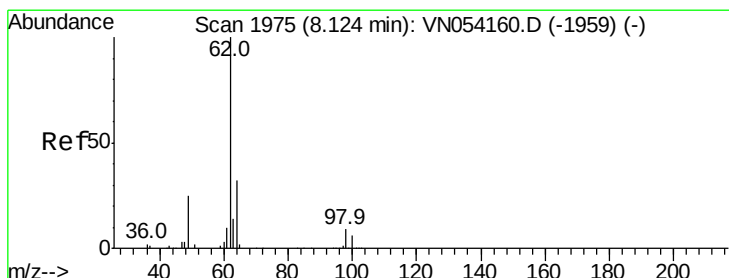
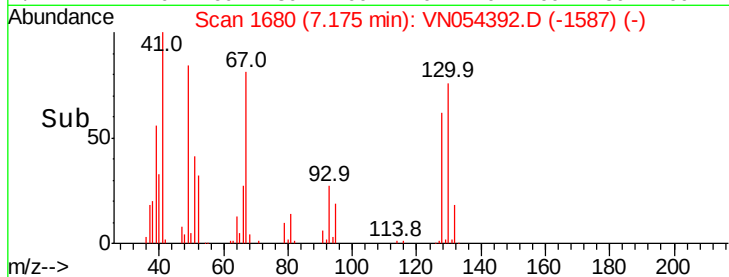
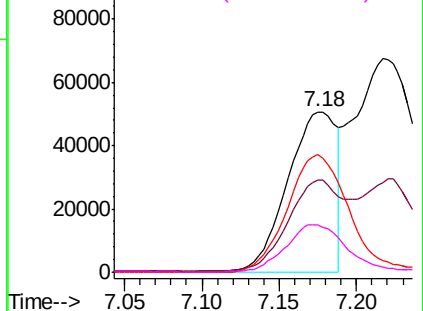
Abundance

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

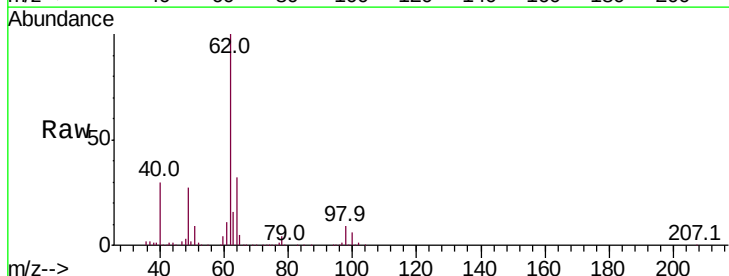
Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



#42
1,2-Dichloroethane
Concen: 20.549 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

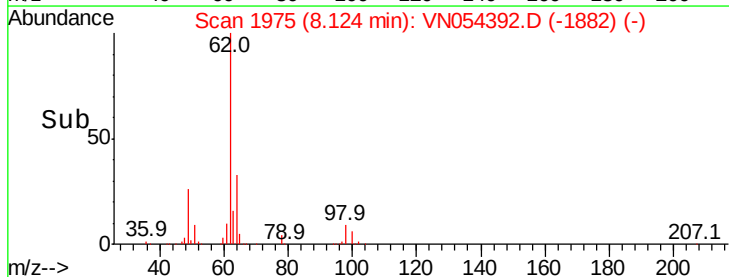
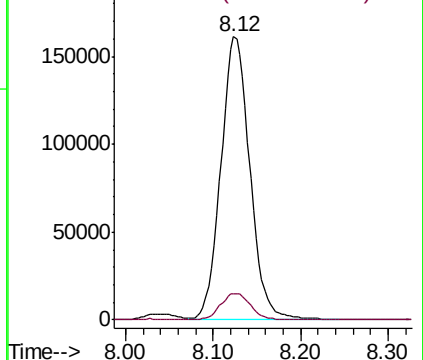
Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.7	0.0	18.4	

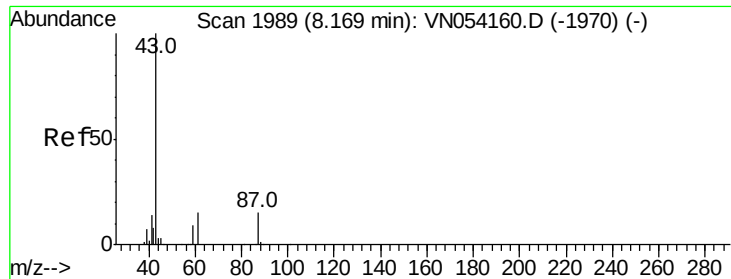


Abundance

Ion 61.90 (61.60 to 62.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





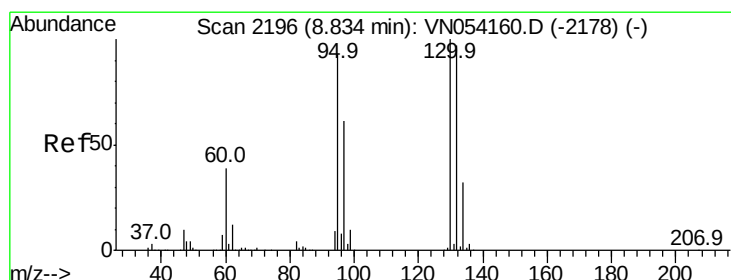
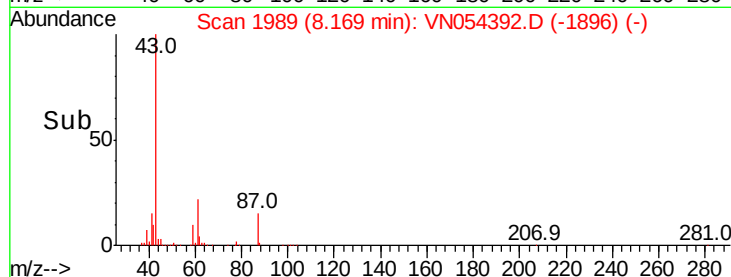
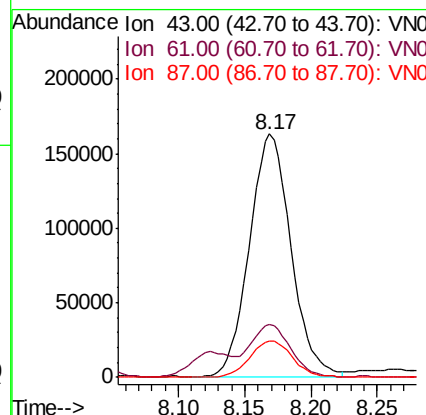
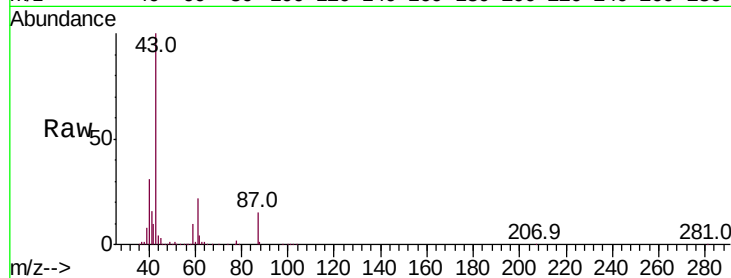
#43
Isopropyl Acetate
Concen: 19.057 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Instrument :
MSVOA_N
ClientSampleId :
VN0318WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.8	15.8	23.8
87	15.4	12.0	18.0

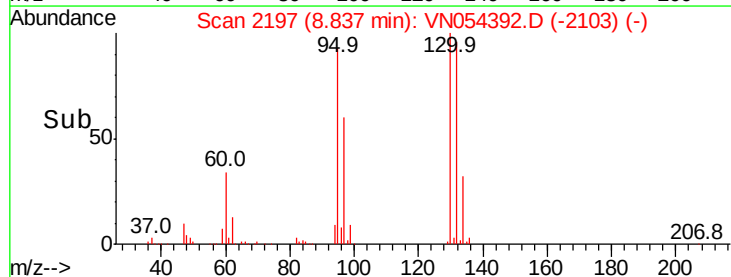
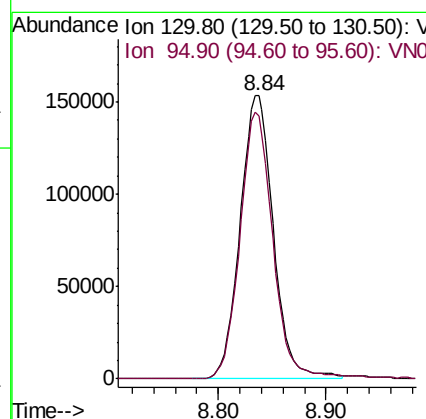
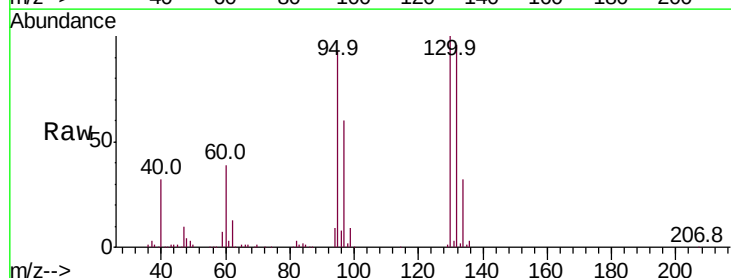
Manual Integrations
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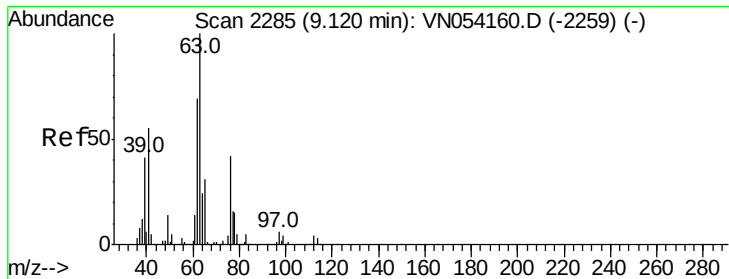
MMDadoda
3/19/2019 9:24:05 AM



#44
Trichloroethene
Concen: 19.966 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.0	0.0	185.2





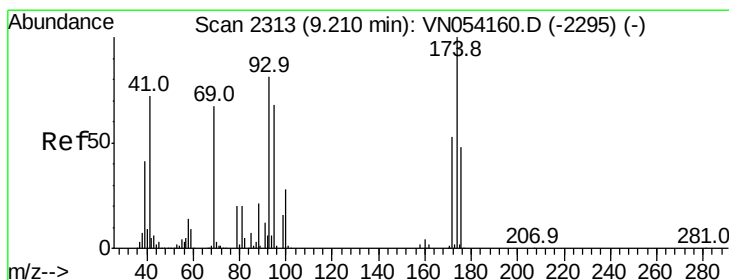
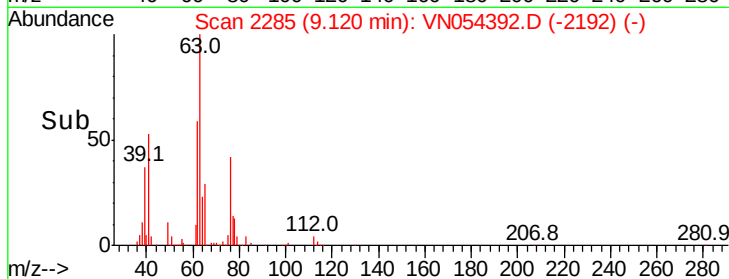
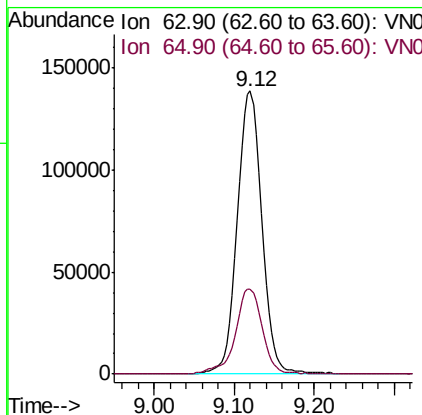
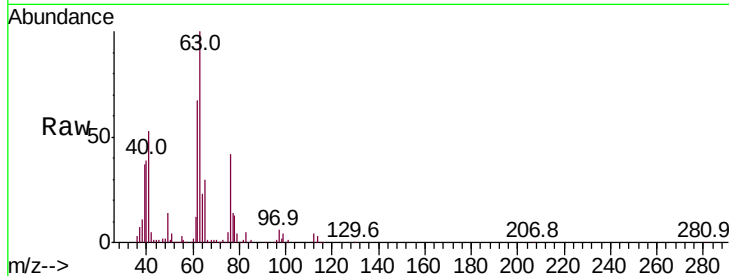
#45
 1,2-Dichloropropane
 Concen: 21.839 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN054392.D
 Acq: 18 Mar 2019 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318WBSD01

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.8	25.0	37.6

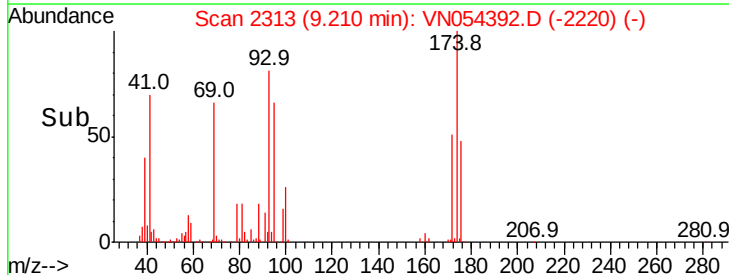
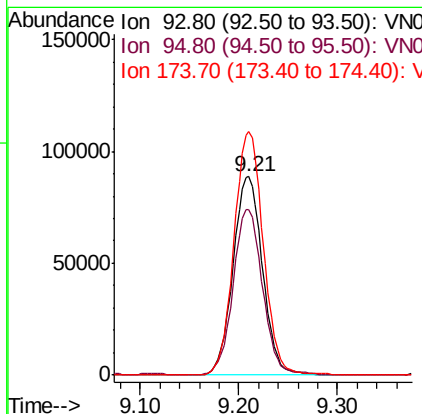
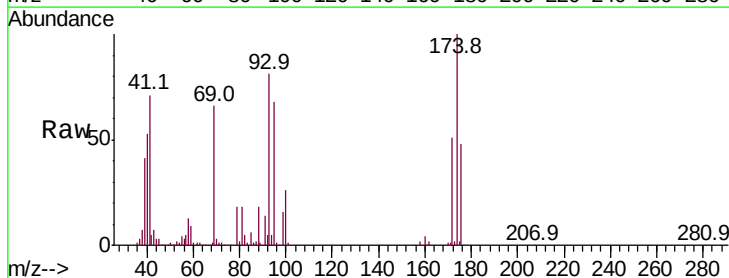
Manual Integrations
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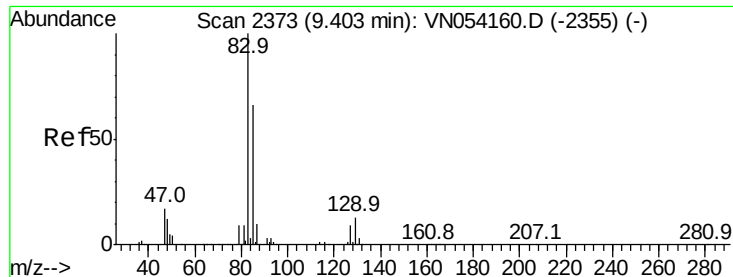
MMDadoda
 3/19/2019 9:24:05 AM



#46
 Dibromomethane
 Concen: 20.811 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN054392.D
 Acq: 18 Mar 2019 14:27

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.4	66.7	100.1
174	120.9	98.5	147.7





#47

Bromodichloromethane

Concen: 19.673 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

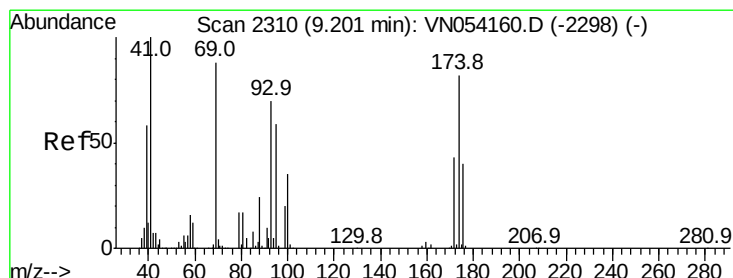
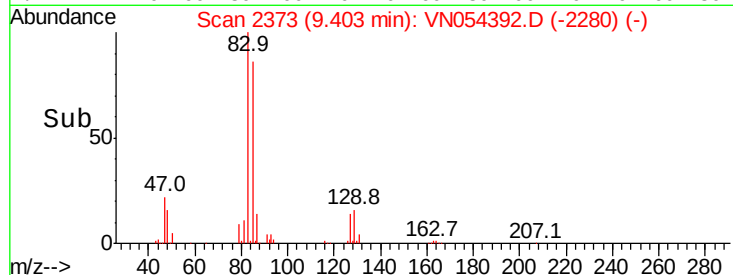
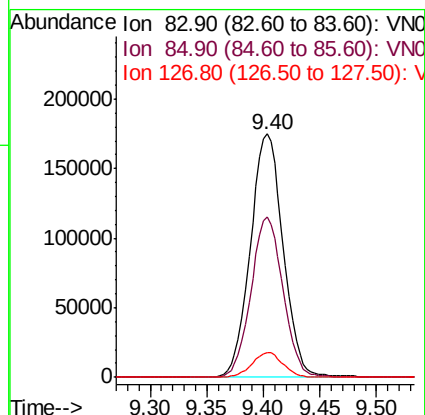
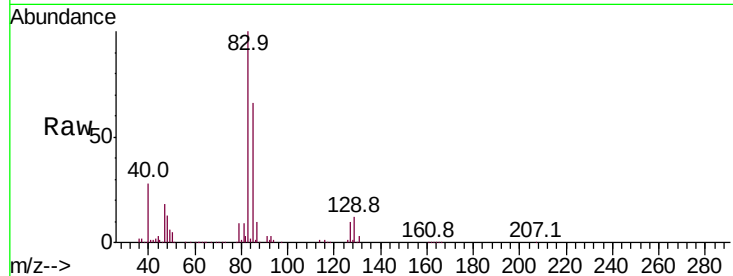
ClientSampleId :

VN0318WBSD01

Tot Ion:	83	Resp:	350629
Ion Ratio	Lower	Upper	
83	100		
85	65.7	52.8	79.2
127	10.3	7.4	11.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 20.509 ug/l

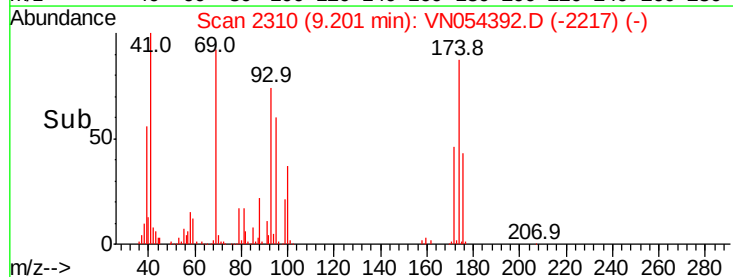
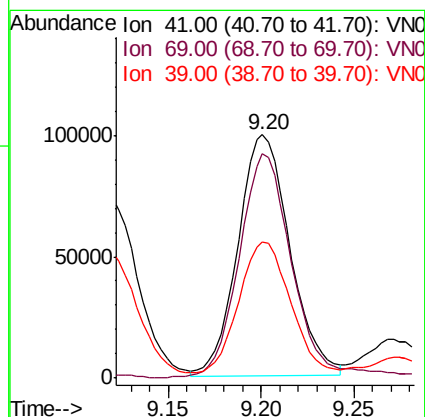
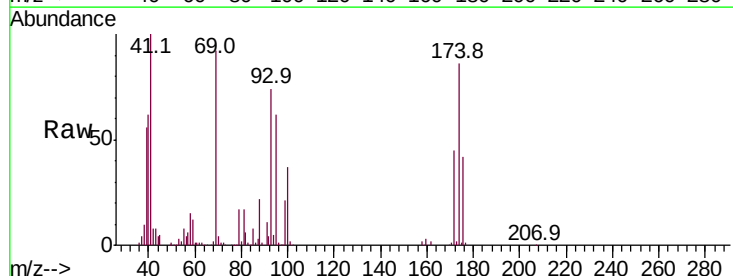
RT: 9.20 min Scan# 2310

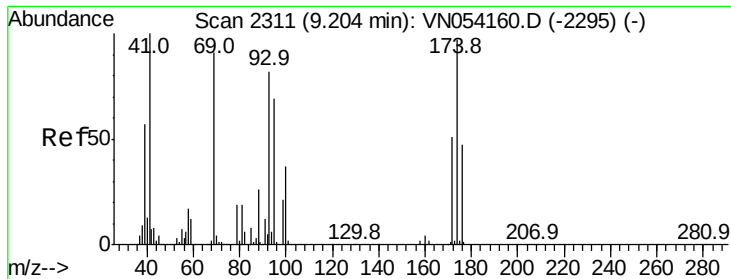
Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Tgt Ion:	41	Resp:	194376
Ion Ratio	Lower	Upper	
41	100		
69	95.5	72.6	108.8
39	56.8	47.5	71.3





#49

1,4-Dioxane

Concen: 350.929 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

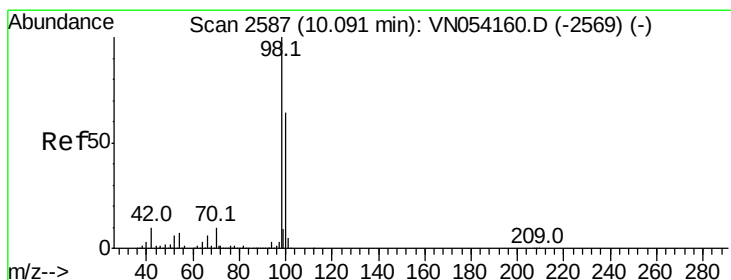
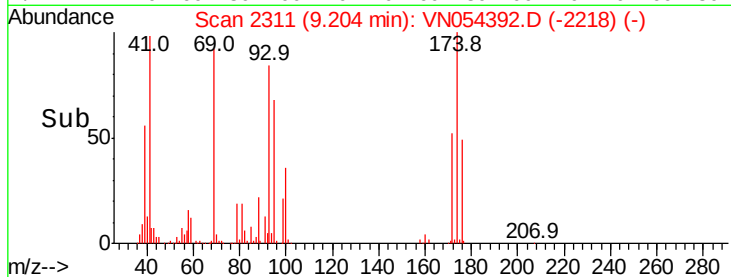
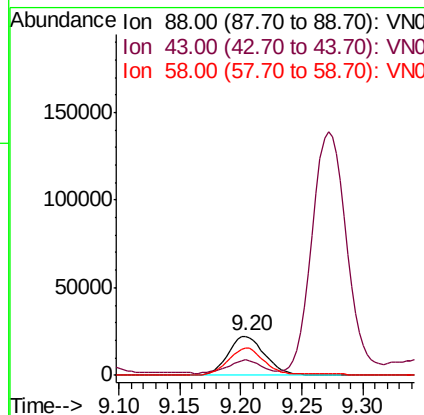
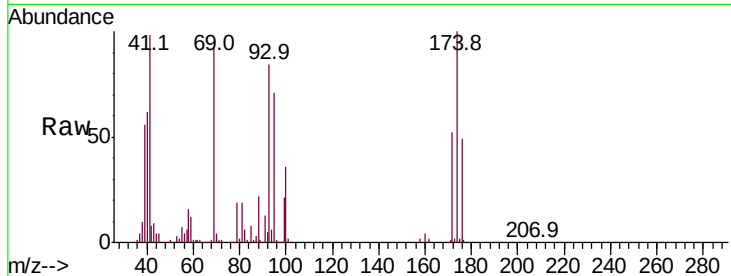
ClientSampleId :

VN0318WBSD01

Tot Ion:	88	Resp:	47046
Ion	Ratio	Lower	Upper
88	100		
43	29.7	24.1	36.1
58	68.9	50.8	76.2

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#50

Toluene-d8

Concen: 50.252 ug/l

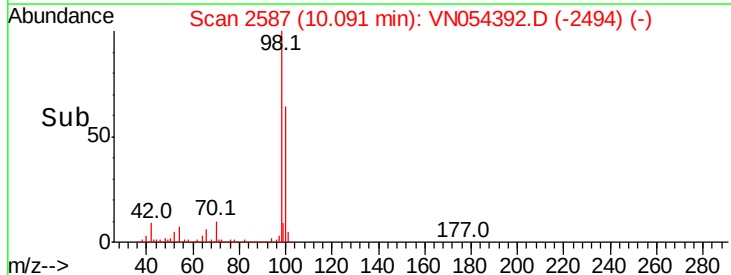
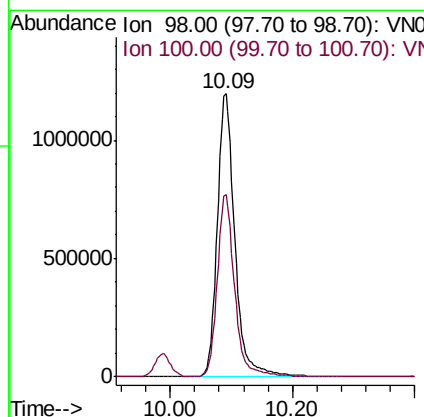
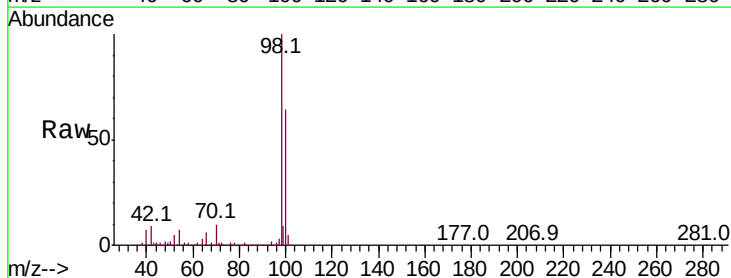
RT: 10.09 min Scan# 2587

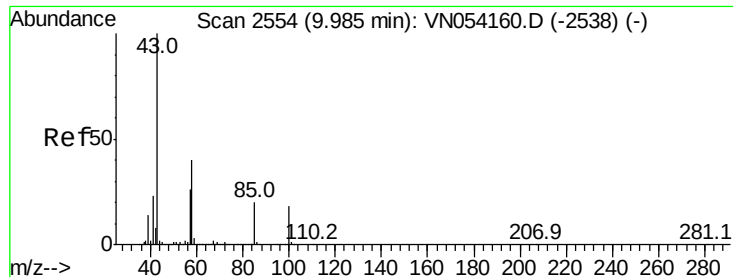
Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Tgt Ion:	98	Resp:	2406795
Ion	Ratio	Lower	Upper
98	100		
100	63.4	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 104.240 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

VN0318WBSD01

Tot Ion: 43 Resp: 1030245

Ion Ratio Lower Upper

43 100

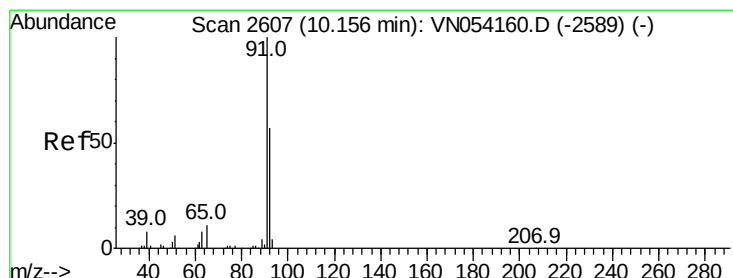
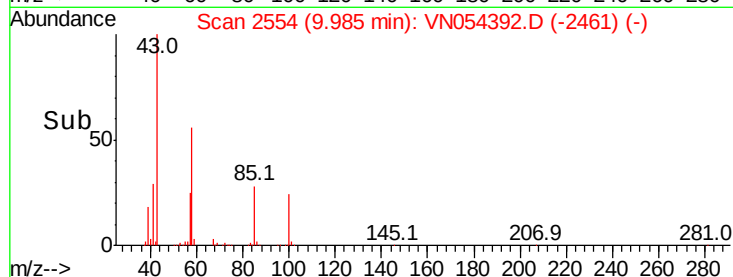
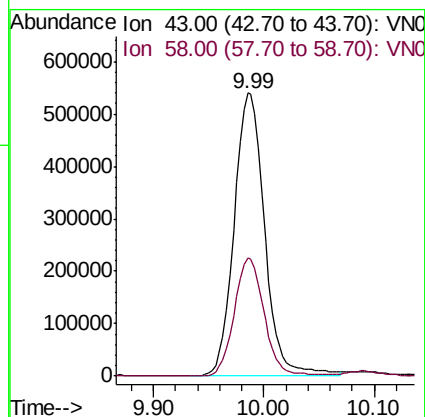
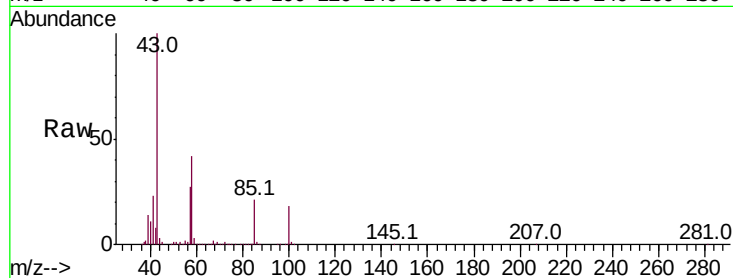
58 41.3 31.8 47.6

Manual Integrations

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#52

Toluene

Concen: 21.157 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054392.D

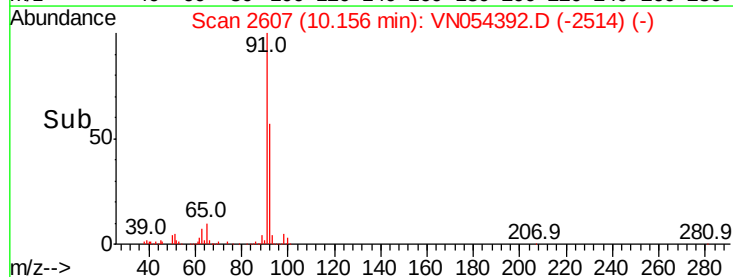
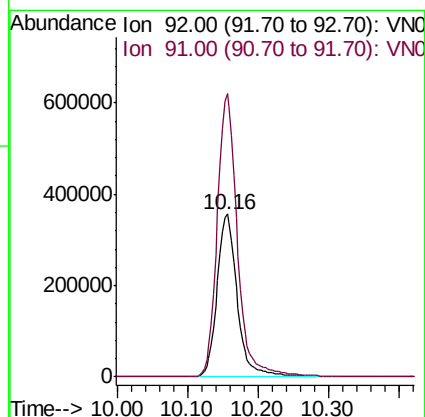
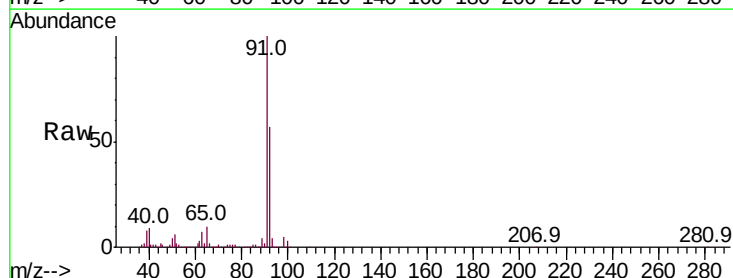
Acq: 18 Mar 2019 14:27

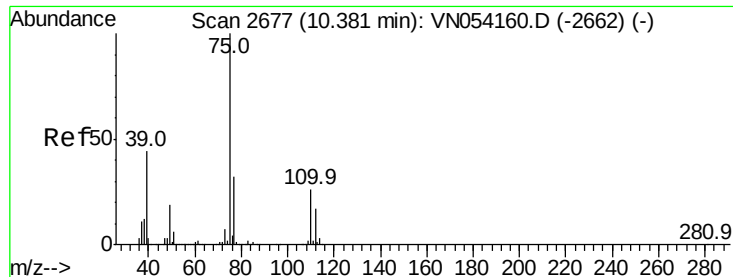
Tgt Ion: 92 Resp: 710850

Ion Ratio Lower Upper

92 100

91 173.6 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 16.778 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

VN0318WBSD01

Tot Ion: 75 Resp: 313997

Ion Ratio Lower Upper

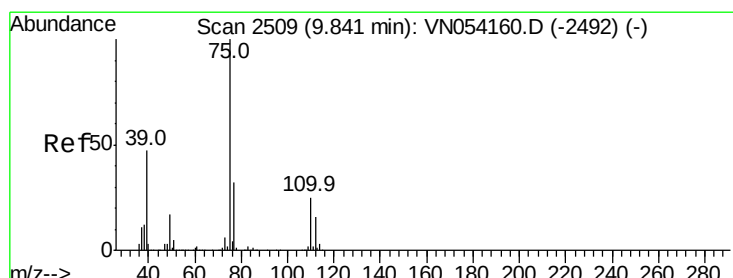
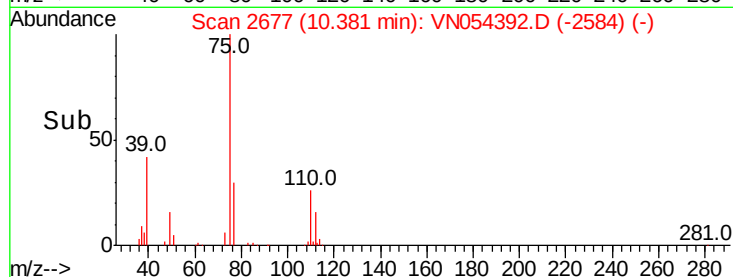
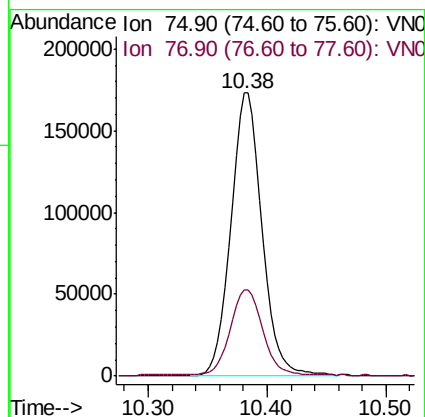
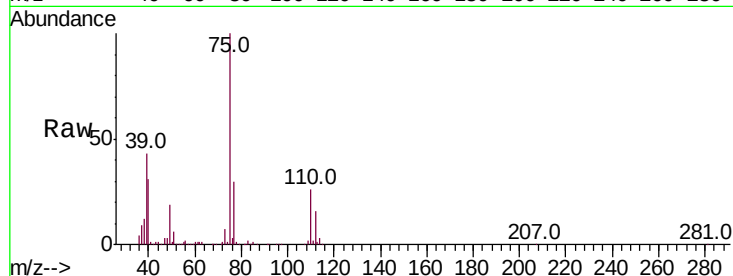
75 100

77 29.9 25.8 38.8

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#54

cis-1,3-Dichloropropene

Concen: 18.530 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

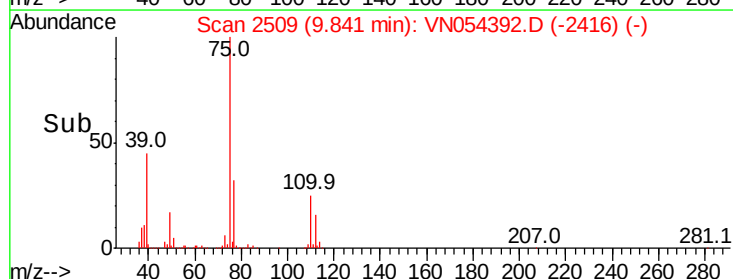
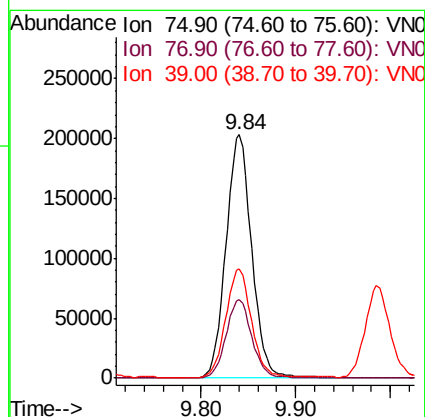
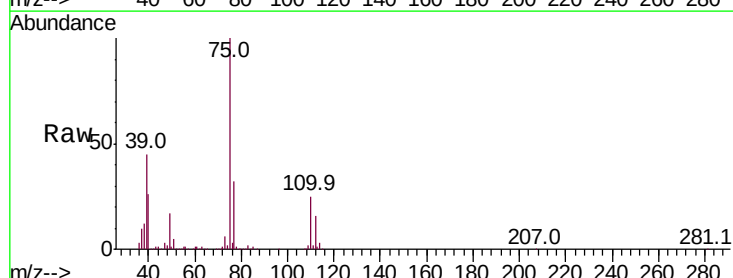
Tgt Ion: 75 Resp: 384845

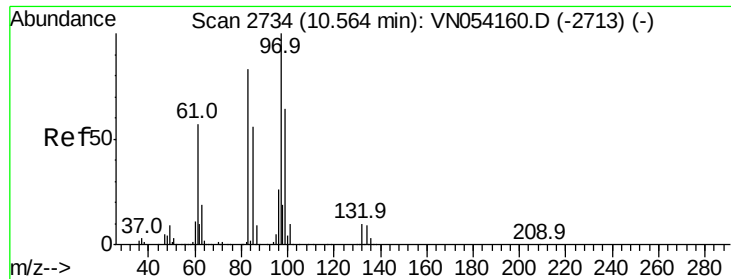
Ion Ratio Lower Upper

75 100

77 32.2 25.4 38.0

39 44.7 37.2 55.8





#55

1,1,2-Trichloroethane

Concen: 21.246 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

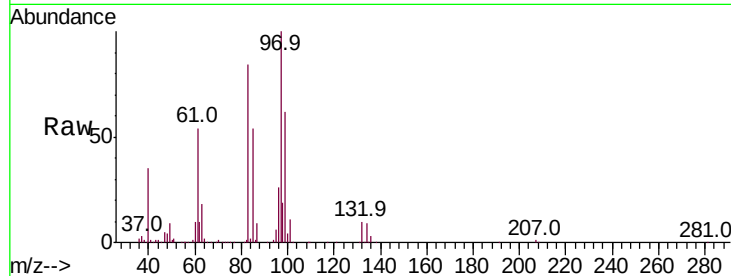
ClientSampleId :

VN0318WBSD01

Tot Ion	97	Resp	260648
Ion	Ratio	Lower	Upper
97	100		
83	84.4	66.6	100.0
85	54.4	44.4	66.6
99	61.7	50.8	76.2

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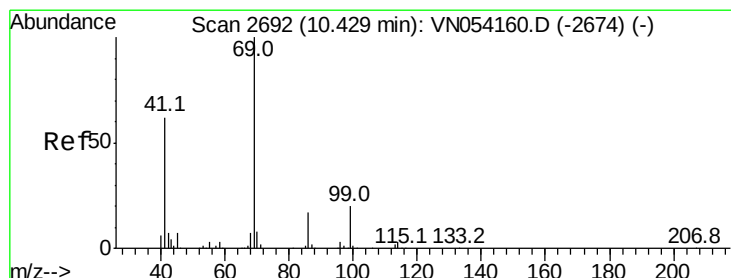
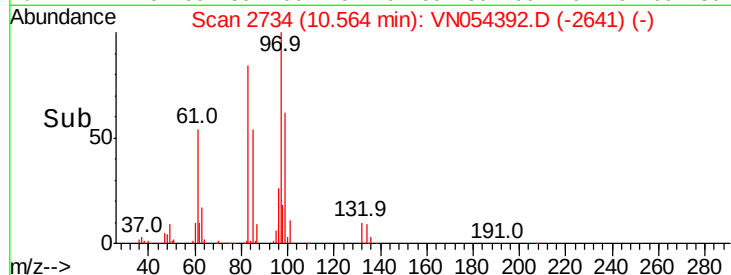
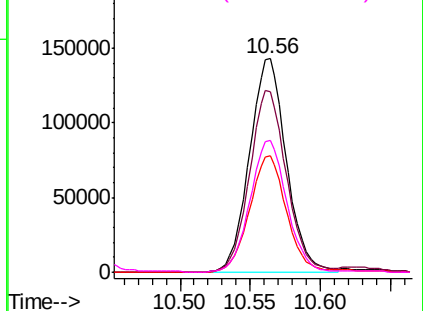
Abundance

Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 20.274 ug/l

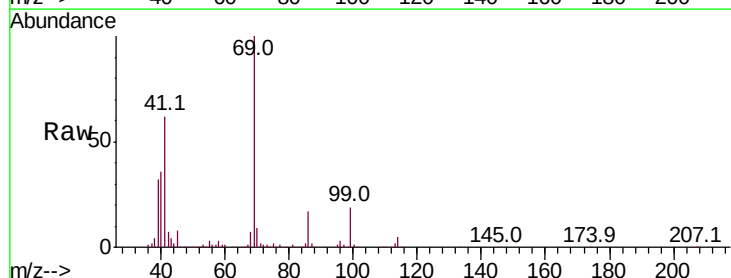
RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Tgt Ion	69	Resp	296579
Ion	Ratio	Lower	Upper
69	100		
41	61.8	49.4	74.2
39	32.7	28.3	42.5

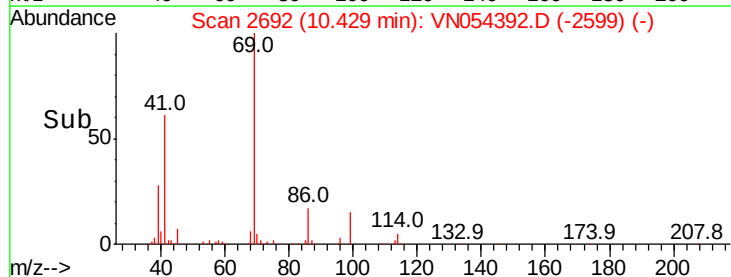
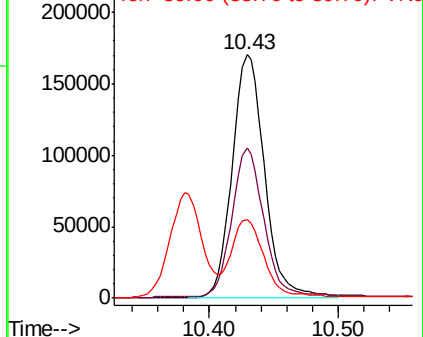


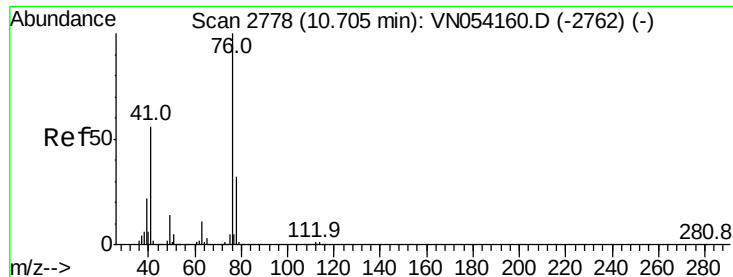
Abundance

Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 21.368 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

ClientSampled :

VN0318WBSD01

Tot Ion: 76 Resp: 428651

Ion Ratio Lower Upper

76 100

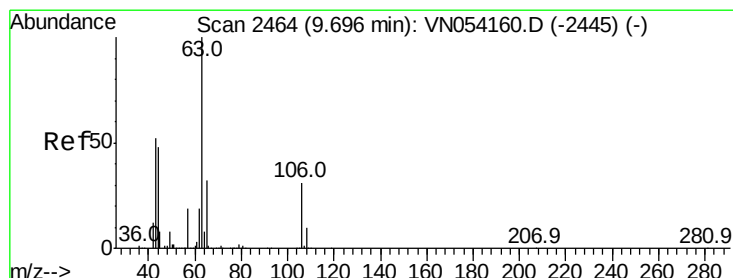
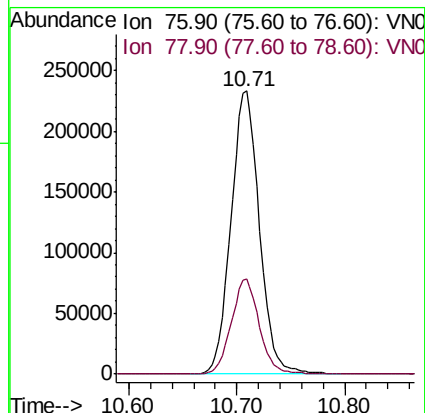
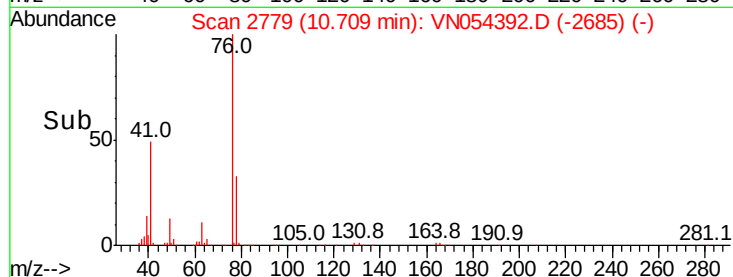
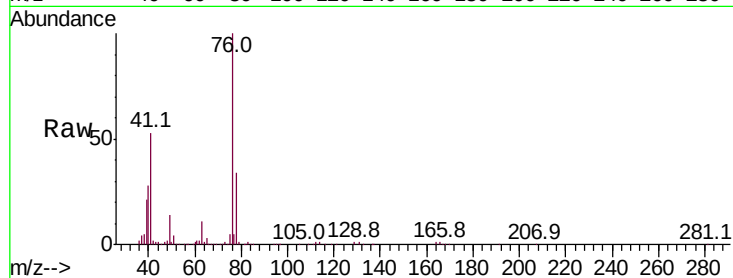
78 33.1 25.7 38.5

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#58

2-Chloroethyl Vinyl ether

Concen: 99.132 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054392.D

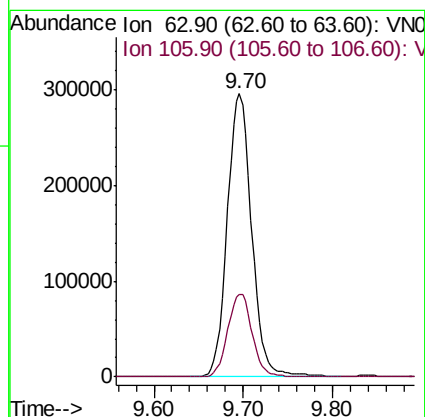
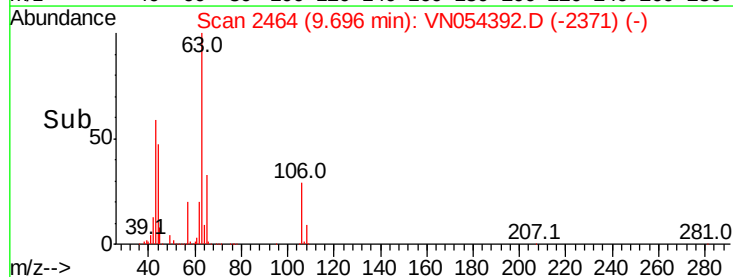
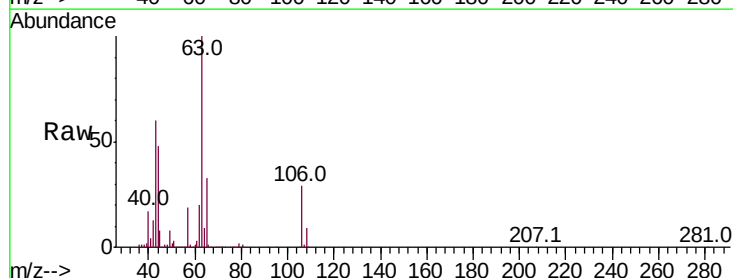
Acq: 18 Mar 2019 14:27

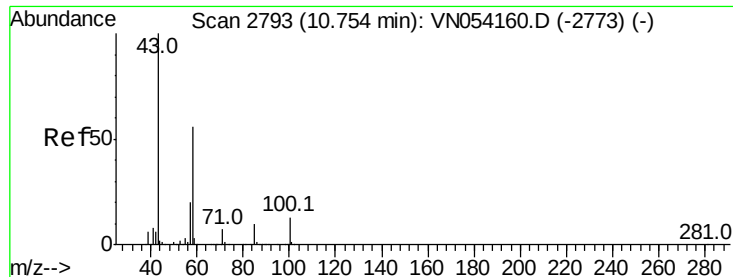
Tgt Ion: 63 Resp: 560025

Ion Ratio Lower Upper

63 100

106 29.4 24.4 36.6





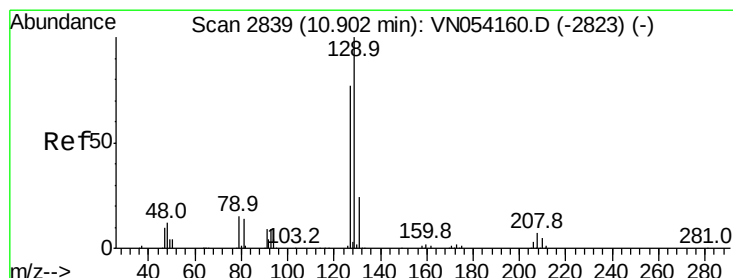
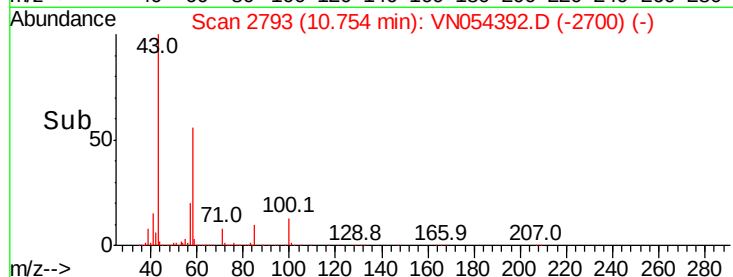
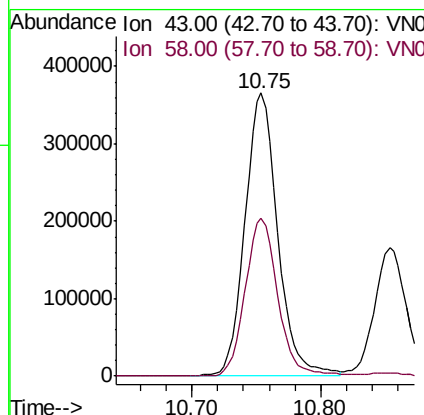
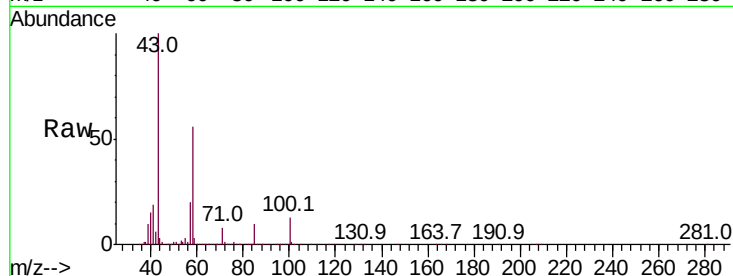
#59
2-Hexanone
Concen: 97.758 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Instrument :
MSVOA_N
ClientSampleId :
VN0318WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.0	28.0	83.9

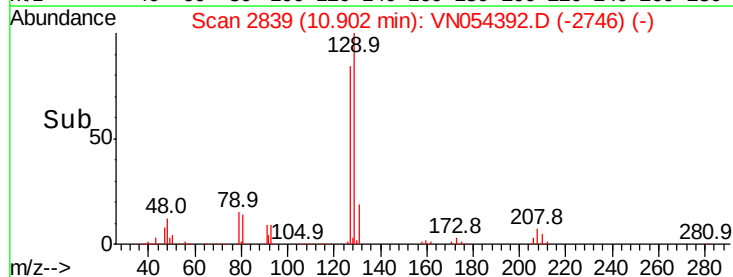
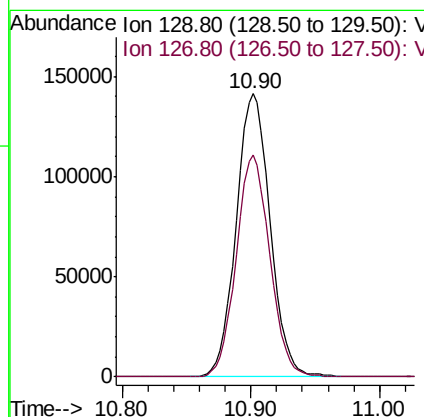
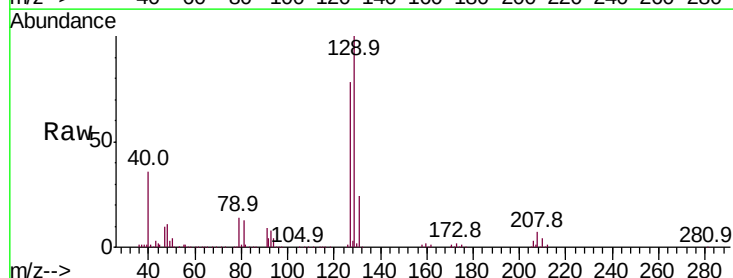
Manual Integrations
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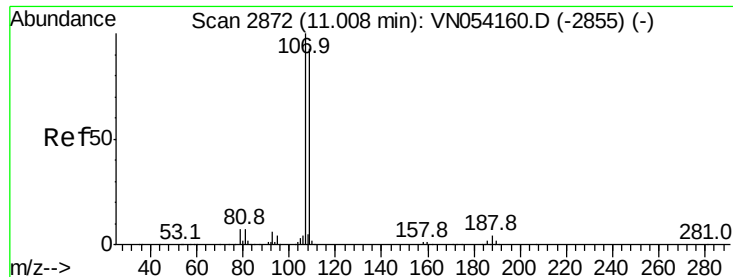
MMDadoda
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#60
Dibromochloromethane
Concen: 18.753 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.6	115.8





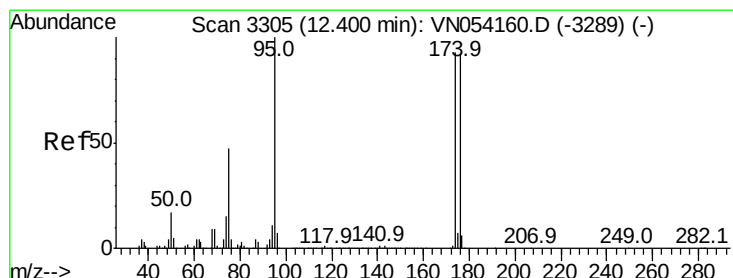
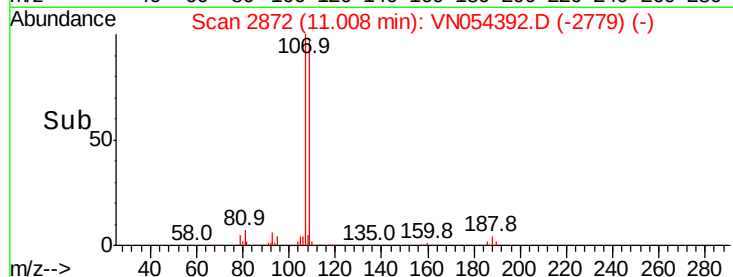
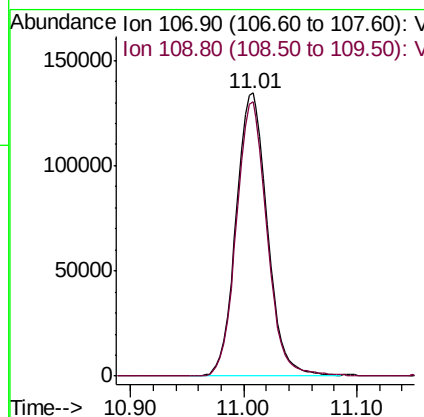
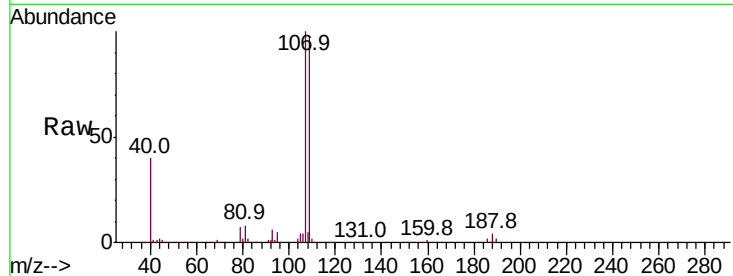
#61
 1,2-Dibromoethane
 Concen: 20.799 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN054392.D
 Acq: 18 Mar 2019 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318WBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.7	75.9	113.9

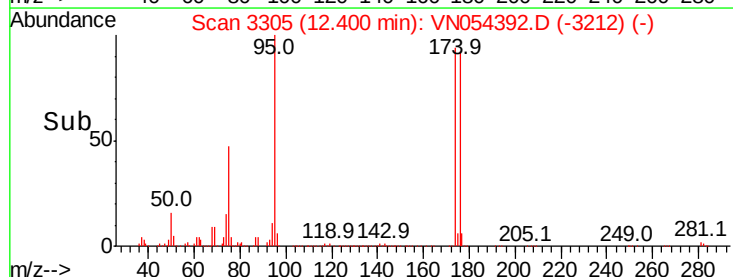
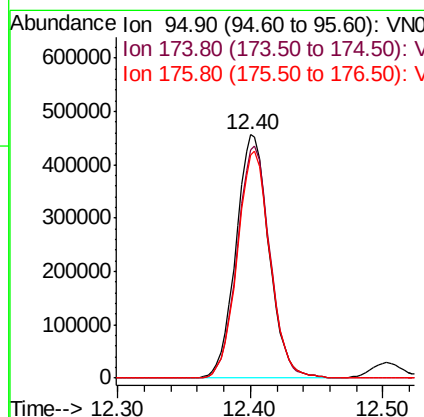
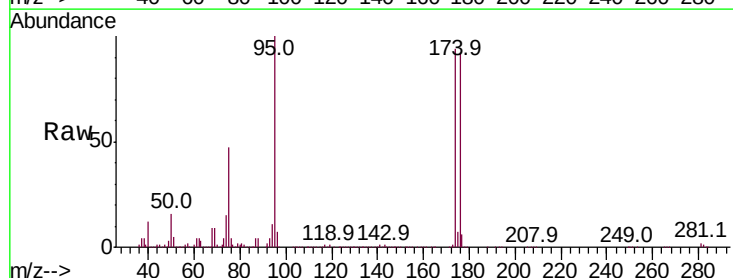
Manual Integrations
 APPROVED

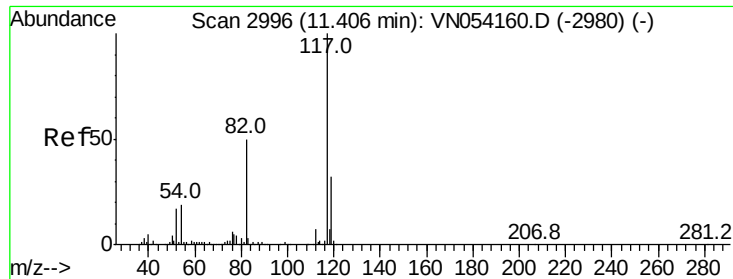
MMDadoda
 3/19/2019 9:24:05 AM



#62
 4-Bromofluorobenzene
 Concen: 46.911 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN054392.D
 Acq: 18 Mar 2019 14:27

Tgt Ion	Ratio	Lower	Upper
95	100		
174	95.1	0.0	191.0
176	93.0	0.0	187.4





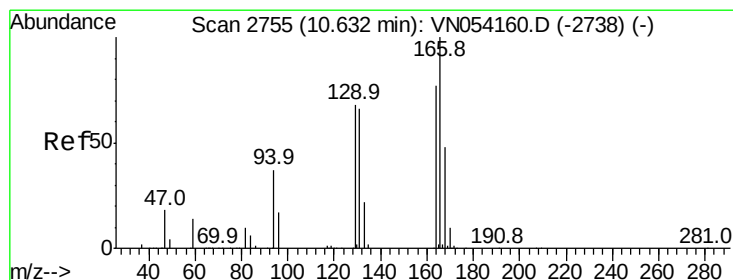
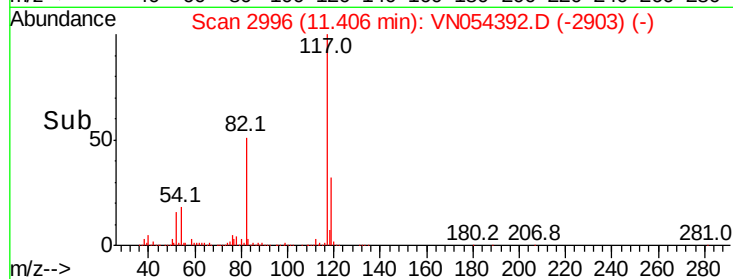
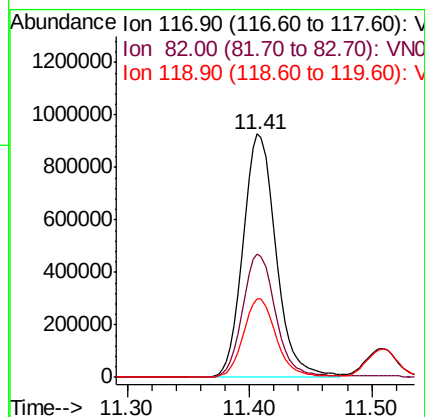
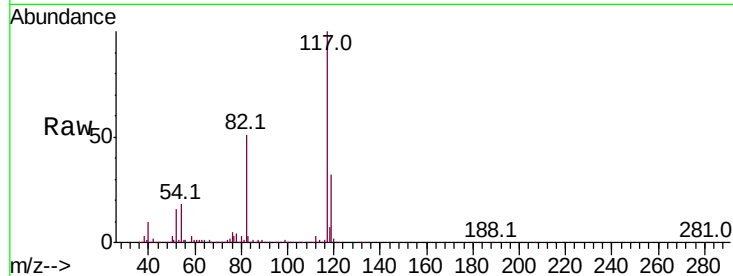
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Instrument :
MSVOA_N
ClientSampleId :
VN0318WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.7	40.0	60.0
119	32.5	25.8	38.6

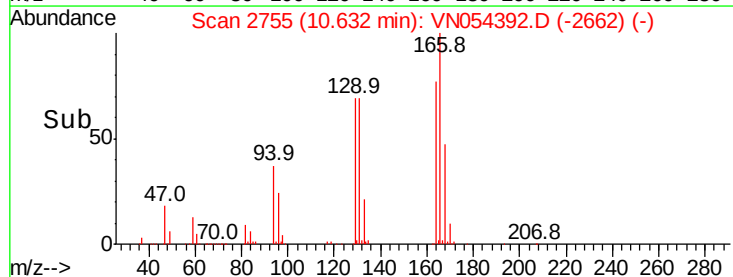
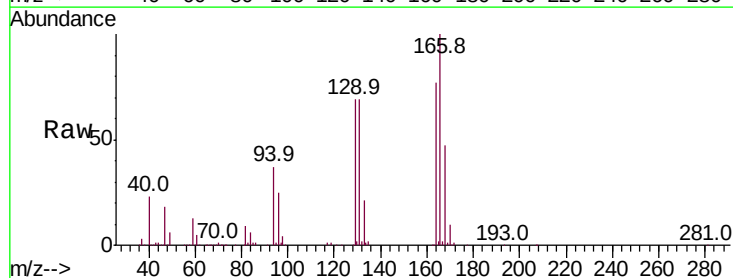
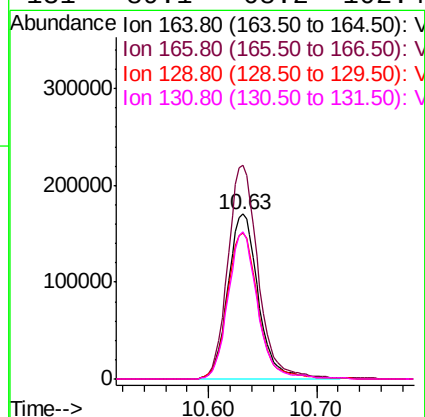
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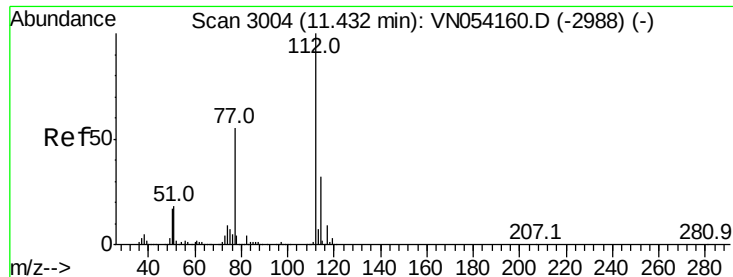
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#64
Tetrachloroethene
Concen: 19.997 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.4	103.9	155.9
129	88.8	71.1	106.7
131	89.1	68.2	102.4





#65

Chlorobenzene

Concen: 20.998 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

VN0318WBSD01

Tot Ion:112 Resp: 796300

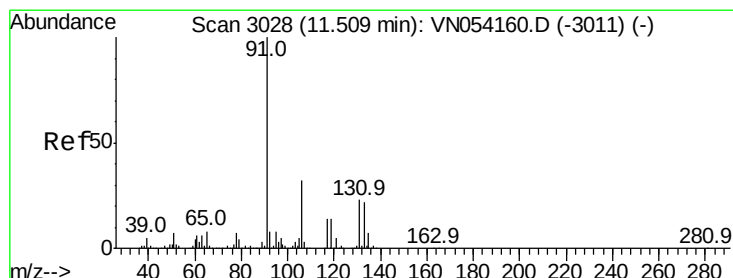
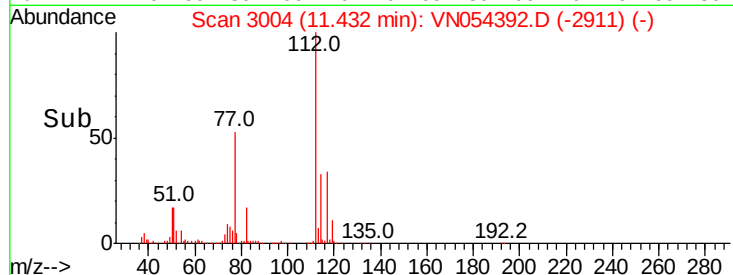
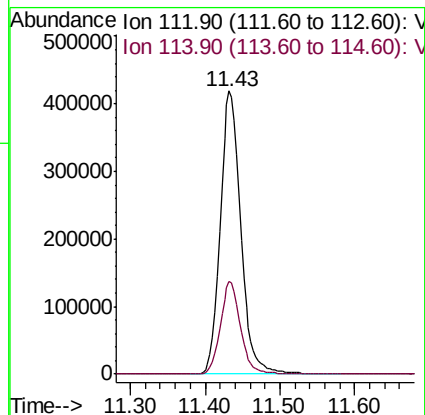
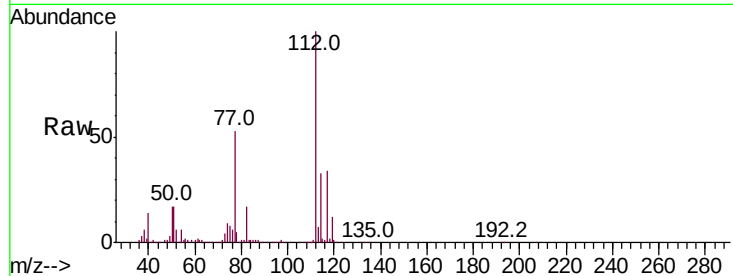
Ion Ratio Lower Upper

112 100

114 32.6 25.9 38.9

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 20.304 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

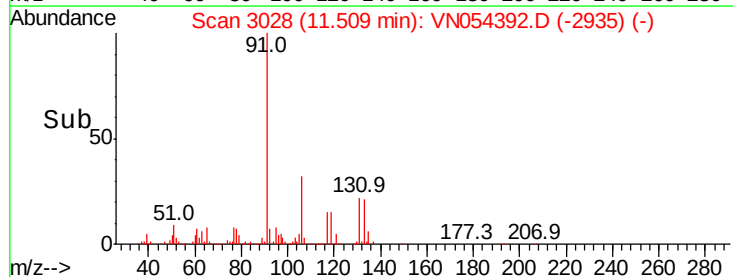
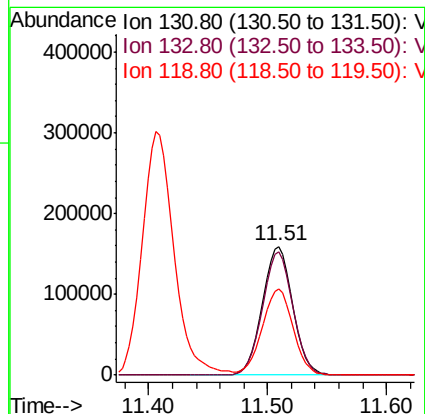
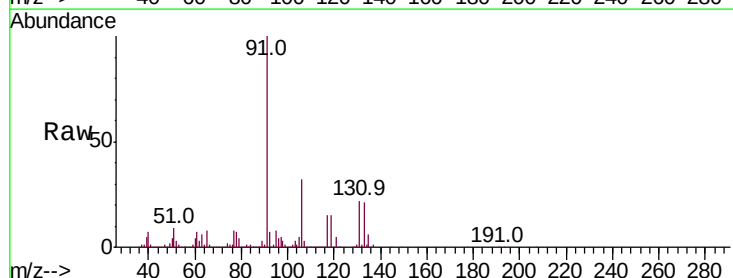
Tgt Ion:131 Resp: 279718

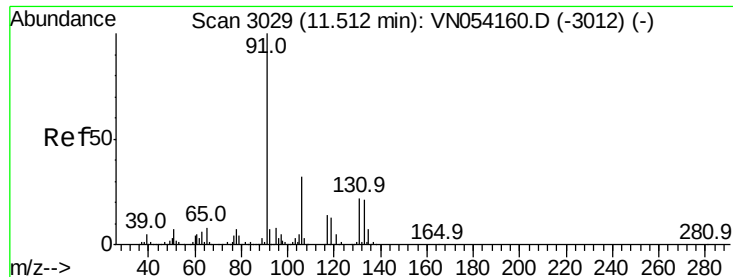
Ion Ratio Lower Upper

131 100

133 96.5 47.6 142.9

119 68.1 32.4 97.0





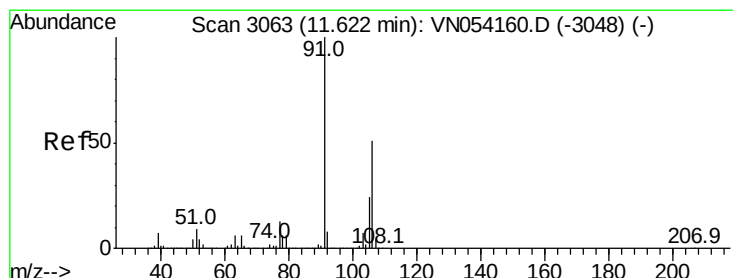
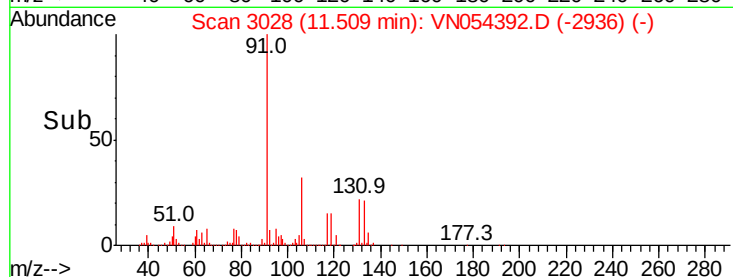
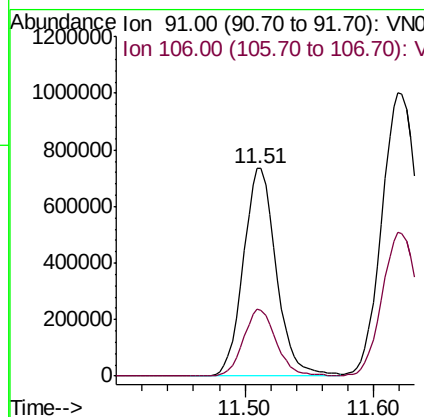
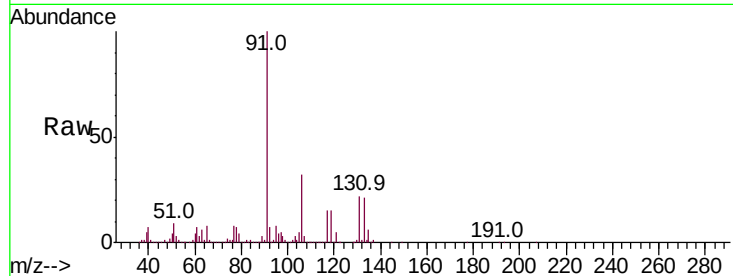
#67
Ethyl Benzene
Concen: 20.775 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Instrument :
MSVOA_N
ClientSampleId :
VN0318WBSD01

Tot Ion: 91 Resp: 1305991
Ion Ratio Lower Upper
91 100
106 32.1 25.5 38.3

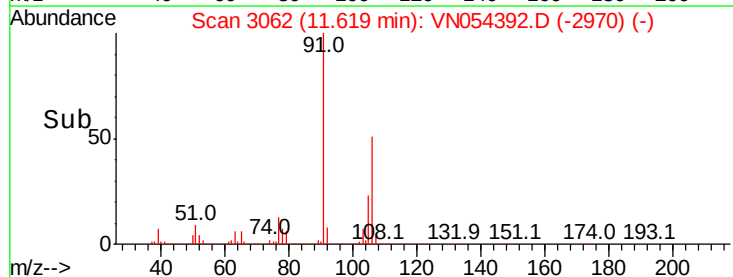
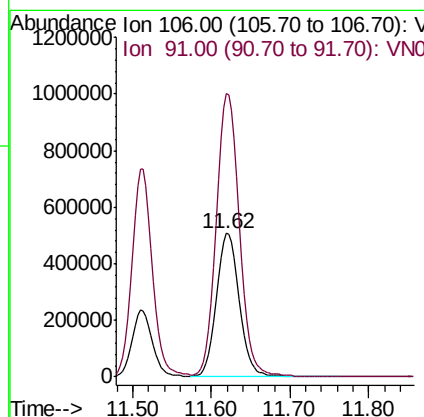
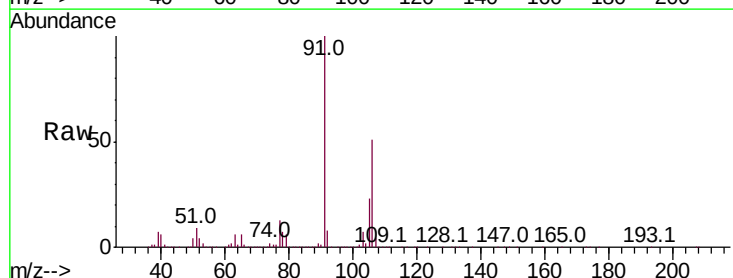
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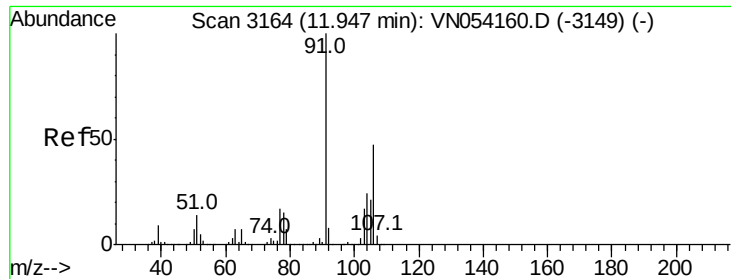
MMDadoda
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#68
m/p-Xylenes
Concen: 41.547 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Tgt Ion: 106 Resp: 1020827
Ion Ratio Lower Upper
106 100
91 198.7 159.4 239.2





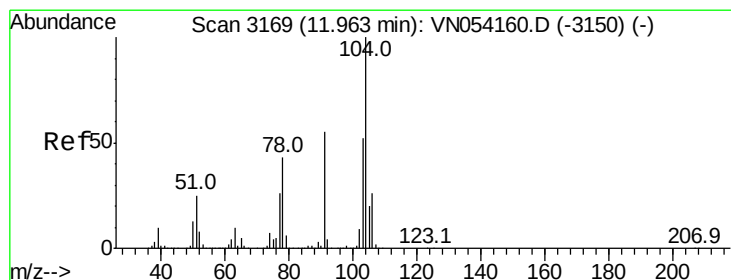
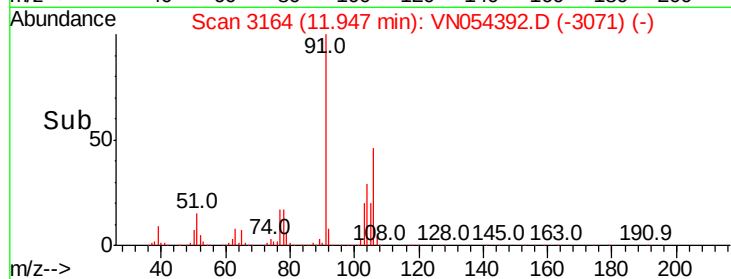
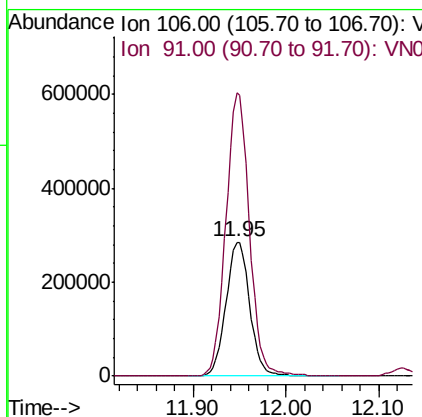
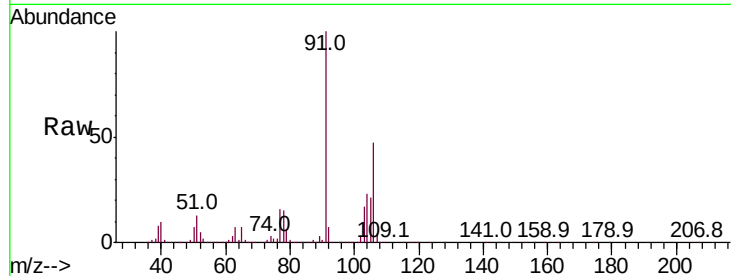
#69
o-Xylene
Concen: 21.234 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Instrument :
MSVOA_N
ClientSampleId :
VN0318WBSD01

Tot Ion:106 Resp: 508594
Ion Ratio Lower Upper
106 100
91 208.5 105.7 317.1

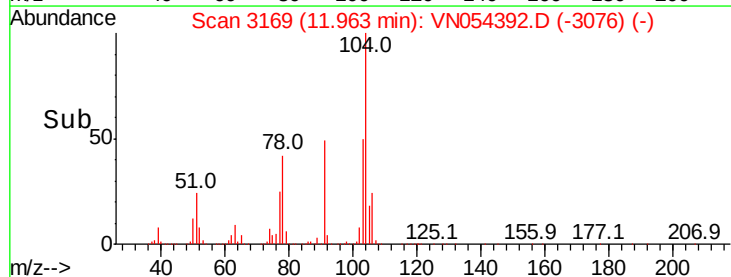
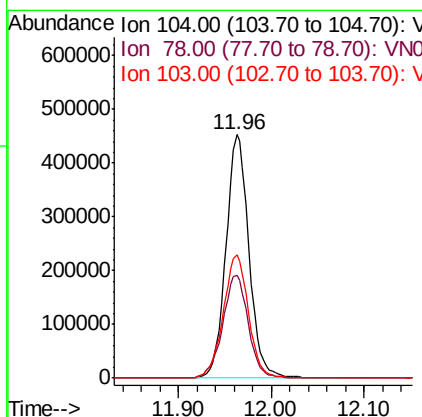
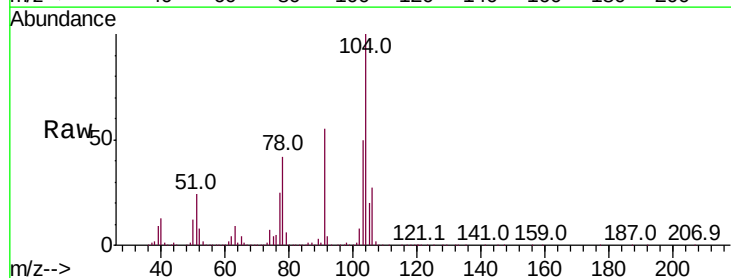
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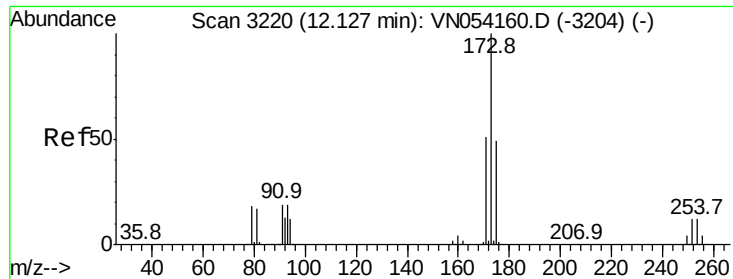
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#70
Styrene
Concen: 20.673 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Tgt Ion:104 Resp: 776582
Ion Ratio Lower Upper
104 100
78 47.3 38.2 57.2
103 55.7 44.4 66.6





#71

Bromoform

Concen: 16.875 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

VN0318WBSD01

Tot Ion:173 Resp: 160058

Ion Ratio Lower Upper

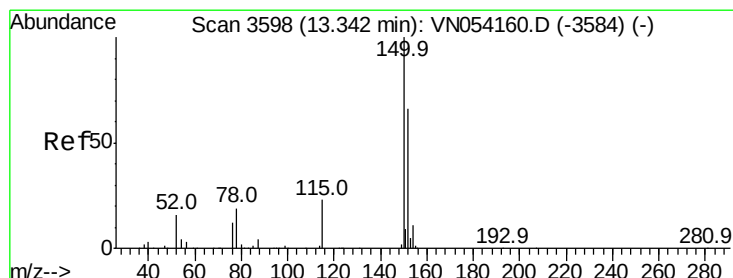
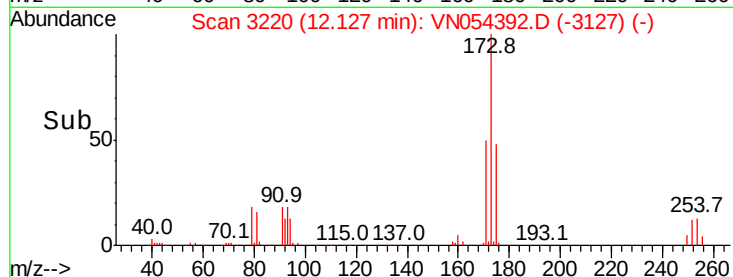
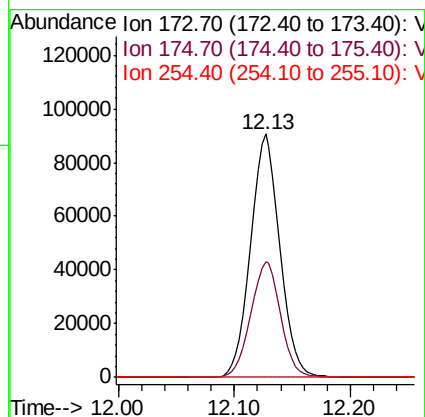
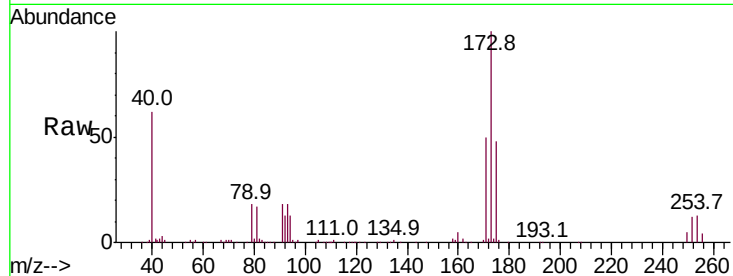
173 100

175 48.3 24.4 73.2

254 0.0 0.1 0.1#

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

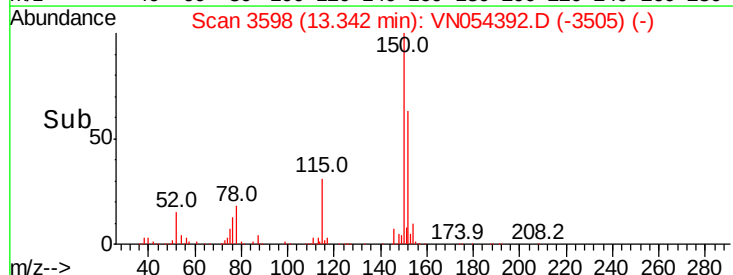
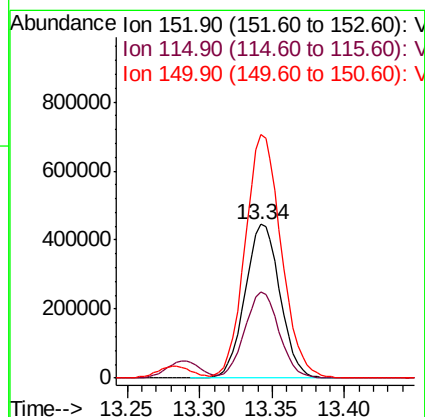
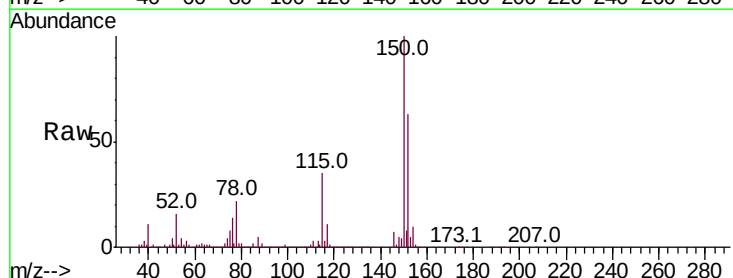
Tgt Ion:152 Resp: 746073

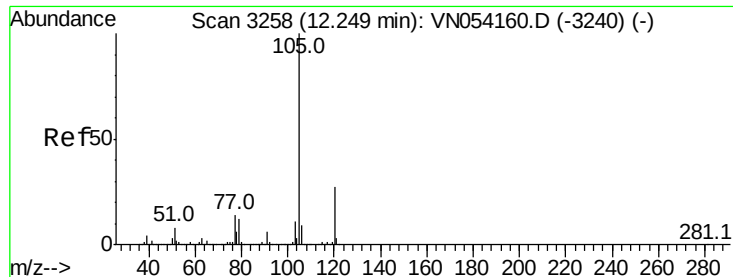
Ion Ratio Lower Upper

152 100

115 55.0 27.2 81.6

150 163.6 0.0 349.2





#73

Isopropylbenzene

Concen: 22.288 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

VN0318WBSD01

Tot Ion:105 Resp: 1330380

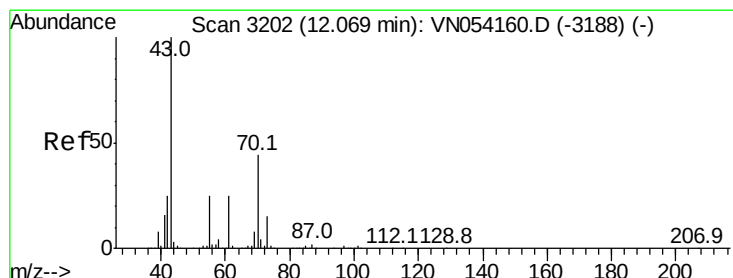
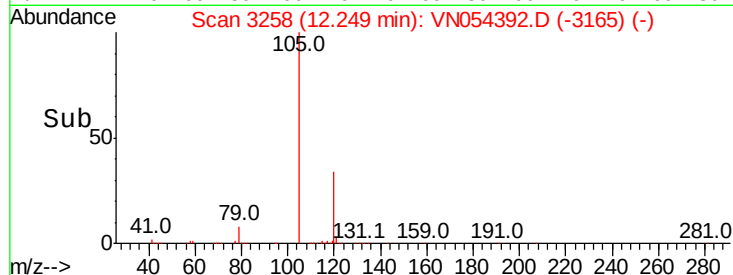
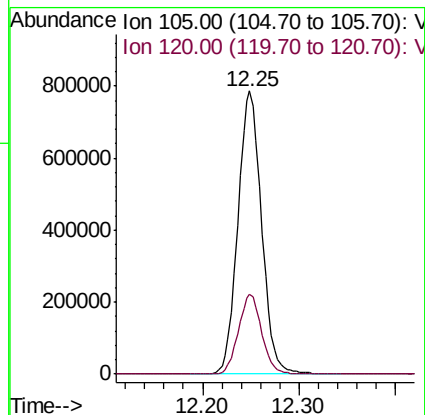
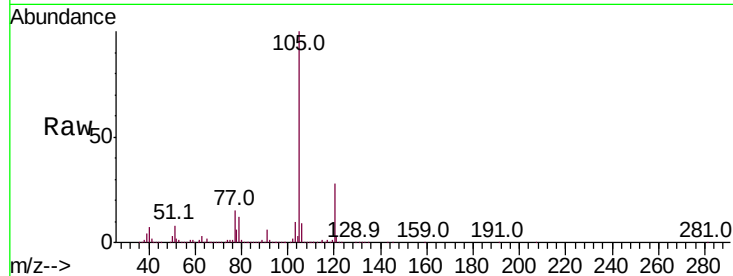
Ion Ratio Lower Upper

105 100

120 27.8 13.8 41.3

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#74

N-ethyl acetate

Concen: 20.470 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Tgt Ion: 43 Resp: 271213

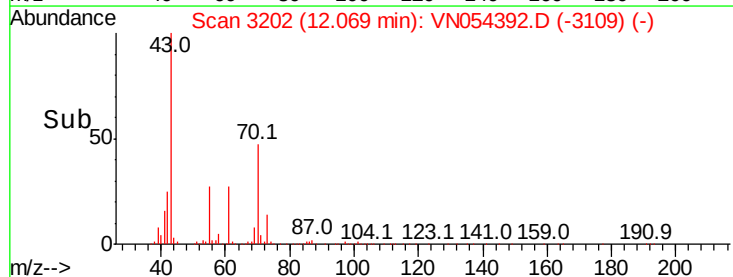
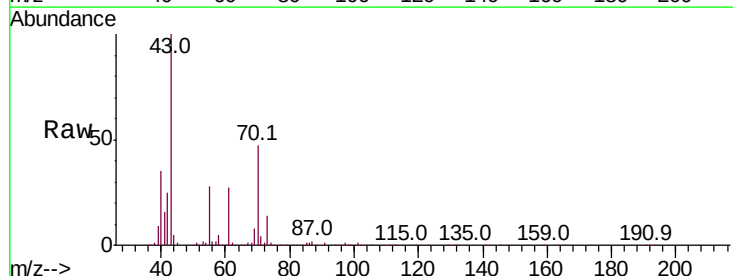
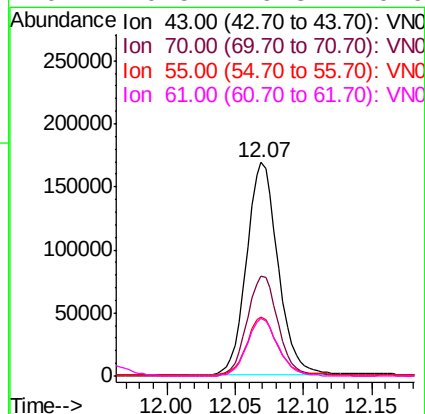
Ion Ratio Lower Upper

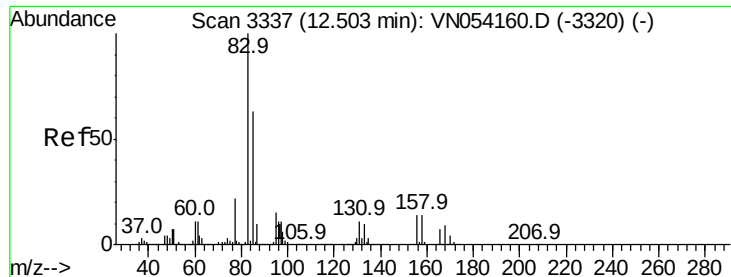
43 100

70 46.6 35.4 53.0

55 26.5 19.8 29.6

61 26.5 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 23.297 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

VN0318WBSD01

Tot Ion: 83 Resp: 296280

Ion Ratio Lower Upper

83 100

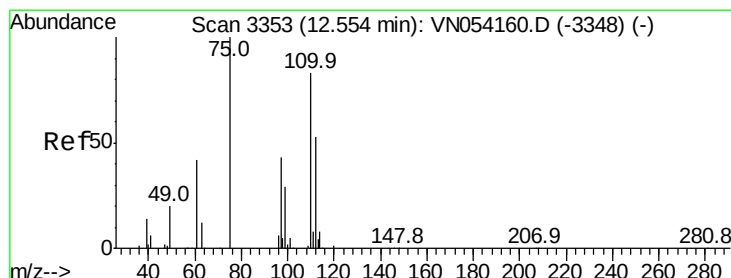
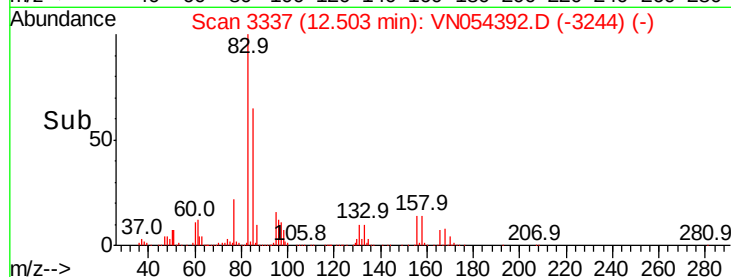
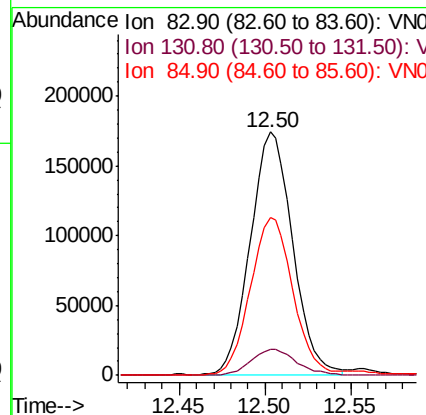
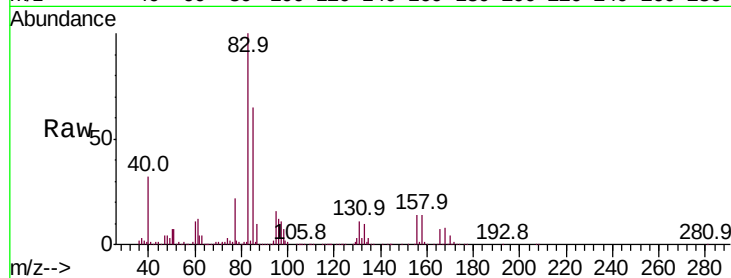
131 11.3 5.8 17.4

85 65.3 32.2 96.6

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.578 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN054392.D

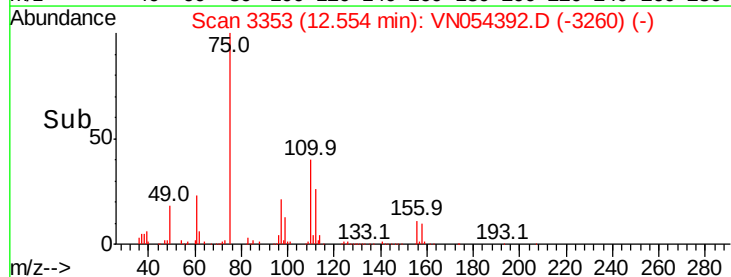
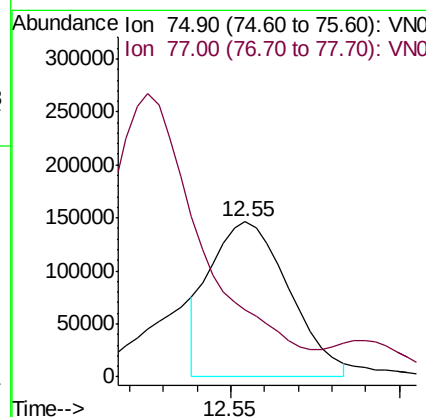
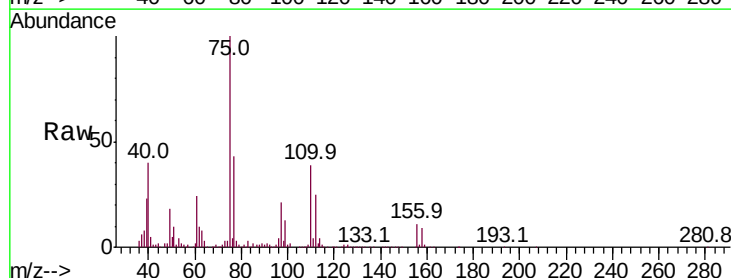
Acq: 18 Mar 2019 14:27

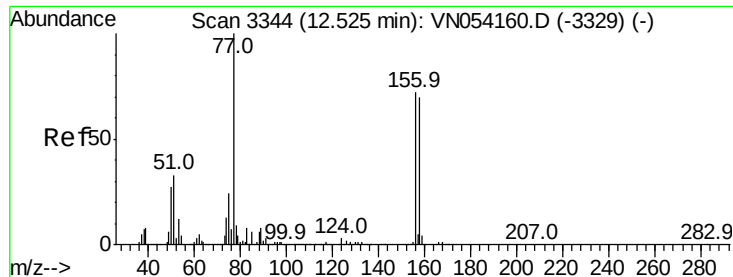
Tgt Ion: 75 Resp: 236735

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 22.229 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

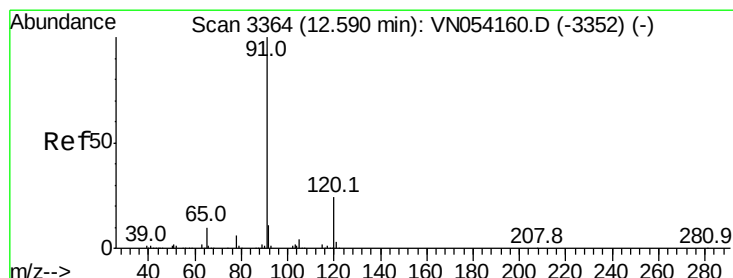
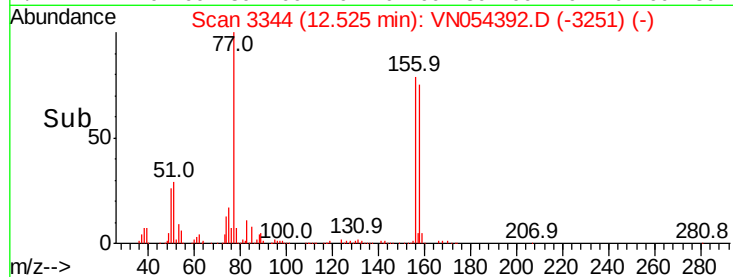
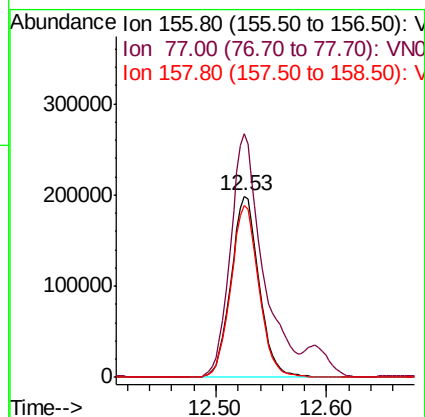
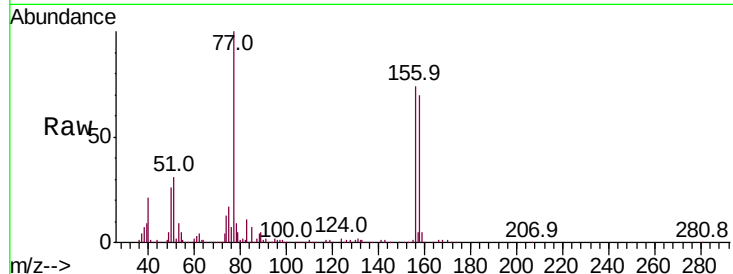
ClientSampled :

VN0318WBSD01

Tot Ion:	156	Resp:	351105
Ion Ratio	Lower	Upper	
156	100		
77	153.4	81.5	244.4
158	94.6	49.0	147.2

Manual Integrations
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#78

n-propylbenzene

Concen: 21.510 ug/l

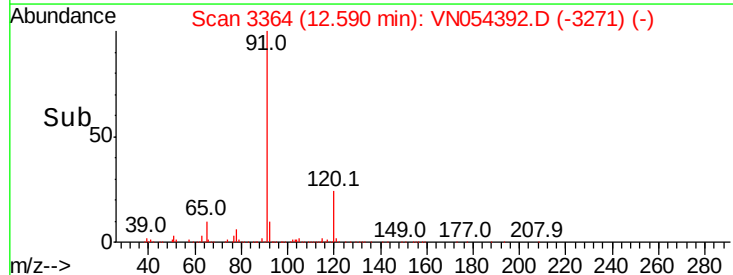
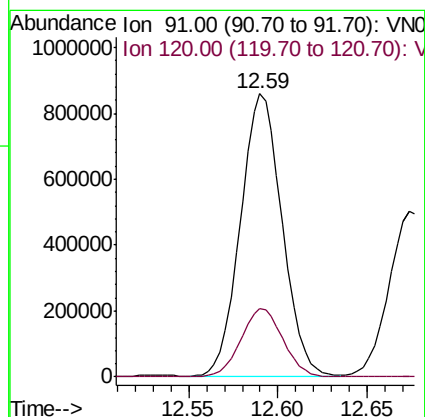
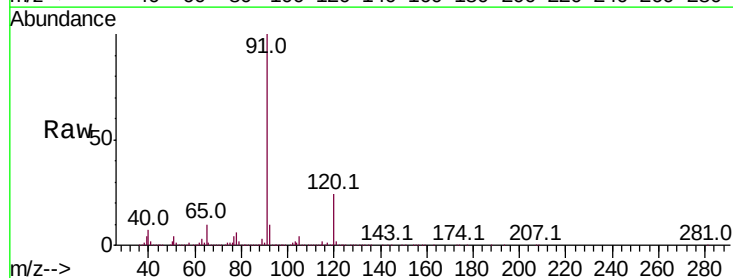
RT: 12.59 min Scan# 3364

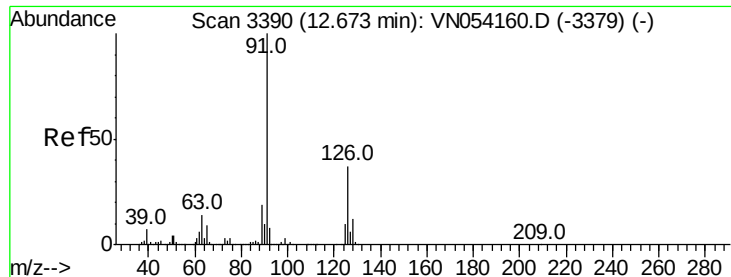
Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Tgt Ion:	91	Resp:	1393171
Ion Ratio	Lower	Upper	
91	100		
120	24.4	12.3	36.9





#79

2-Chlorotoluene

Concen: 21.895 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

VN0318WBSD01

Tot Ion: 91 Resp: 852675

Ion Ratio Lower Upper

91 100

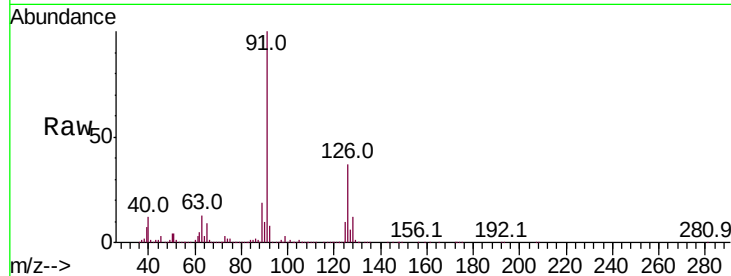
126 37.5 18.7 56.1

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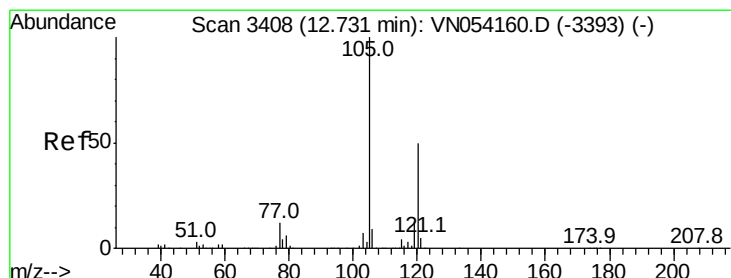
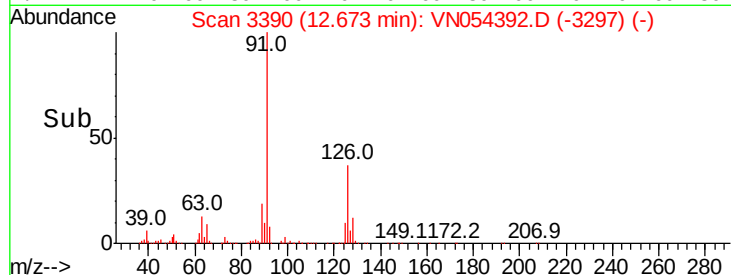
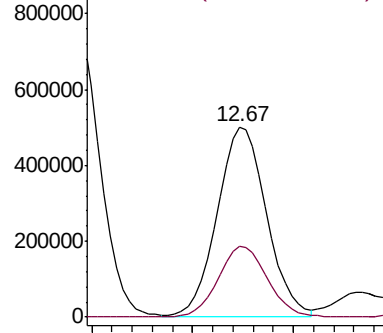
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Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 21.353 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054392.D

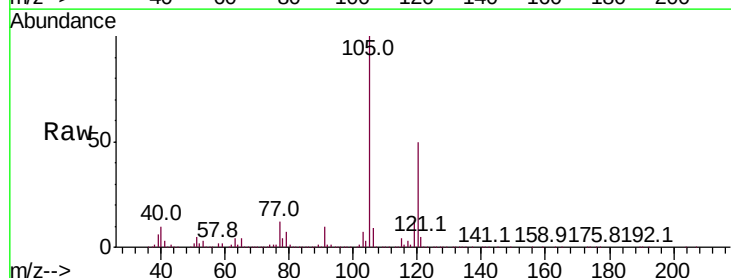
Acq: 18 Mar 2019 14:27

Tgt Ion:105 Resp: 1060174

Ion Ratio Lower Upper

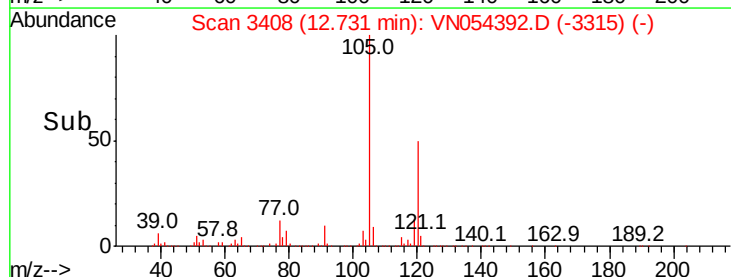
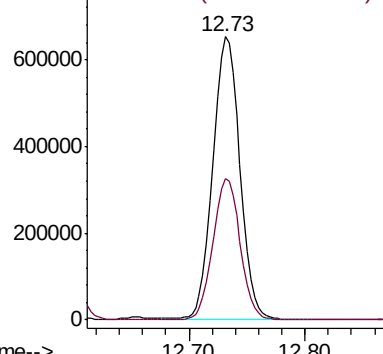
105 100

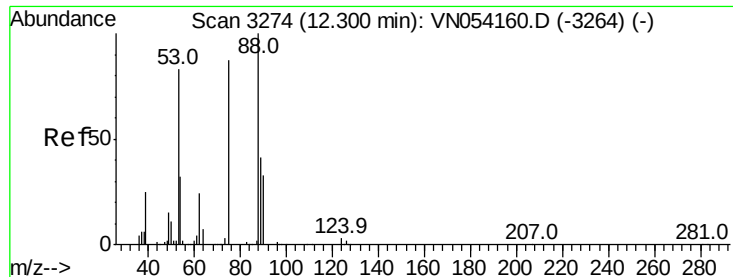
120 49.9 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





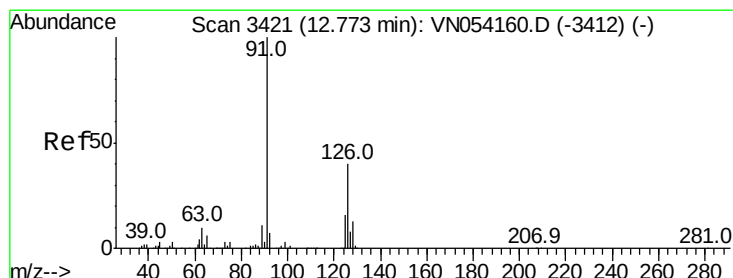
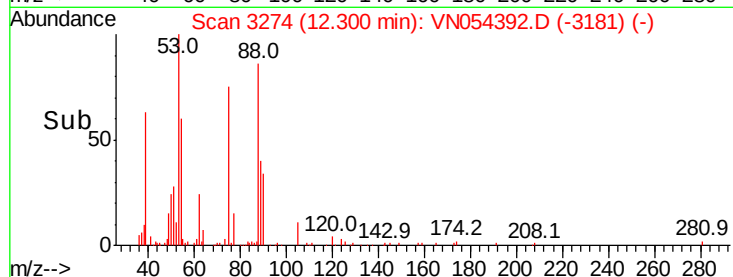
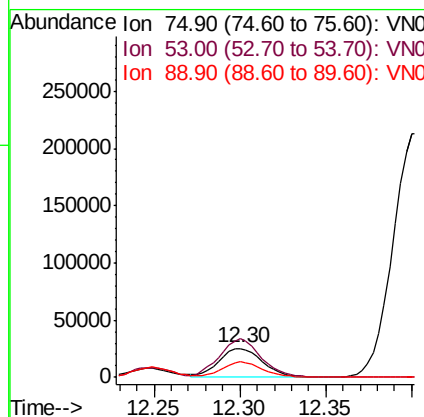
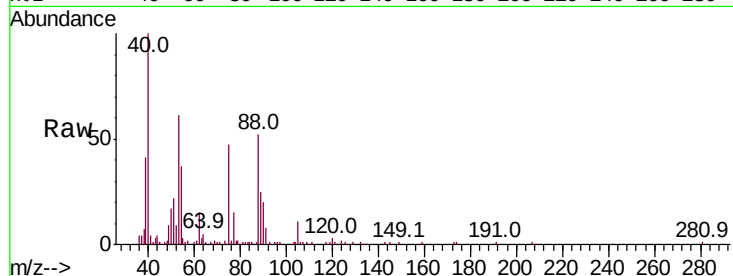
#81
trans-1,4-Dichloro-2-butene
Concen: 13.650 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Instrument :
MSVOA_N
ClientSampleId :
VN0318WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	130.2	76.2	114.2#
89	50.9	39.2	58.8

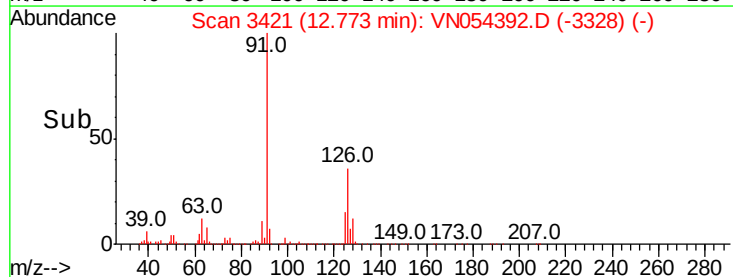
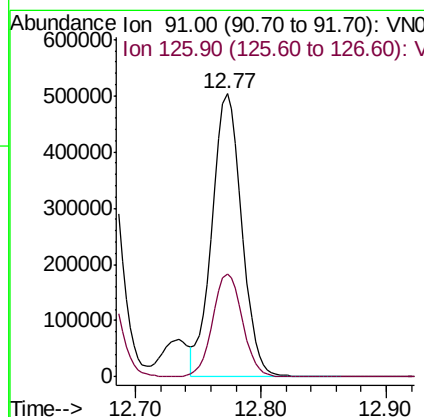
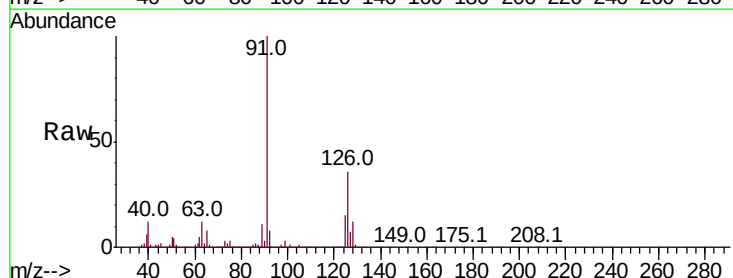
Manual Integrations
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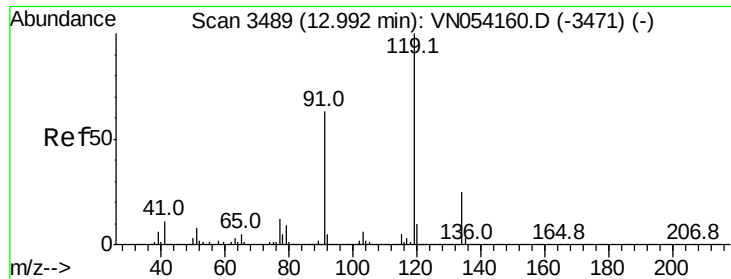
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#82
4-Chlorotoluene
Concen: 21.256 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.8	18.1	54.1





#83

tert-Butylbenzene

Concen: 21.264 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

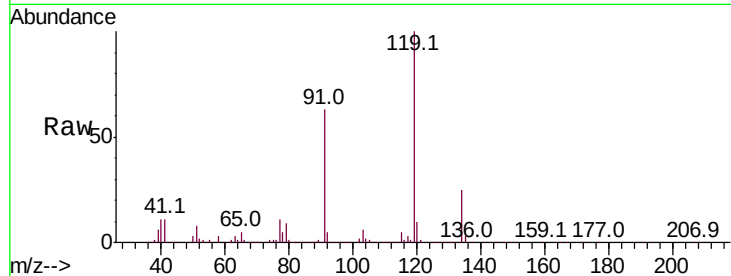
ClientSampleId :

VN0318WBSD01

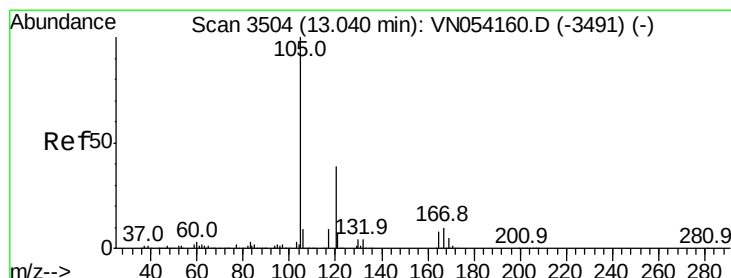
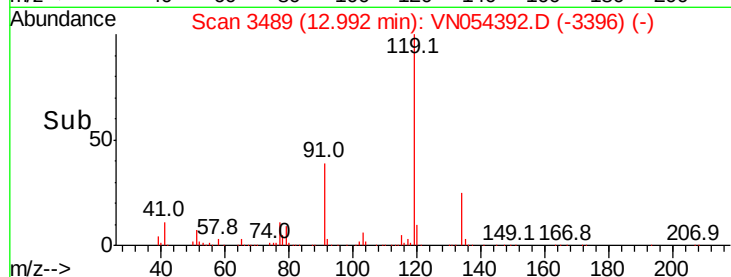
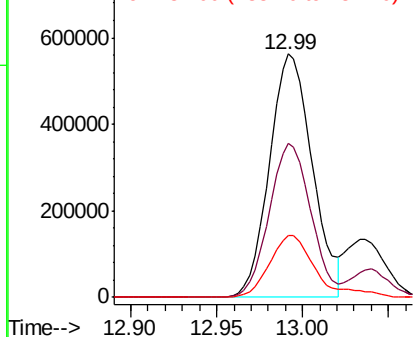
Tot Ion:	119	Resp:	971755
Ion Ratio	Lower	Upper	
119	100		
91	61.3	30.9	92.8
134	27.5	13.2	39.6

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Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 21.949 ug/l

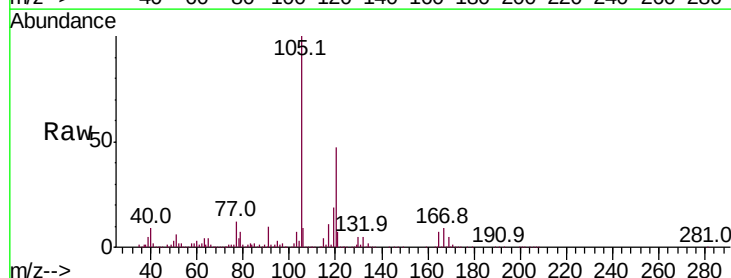
RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

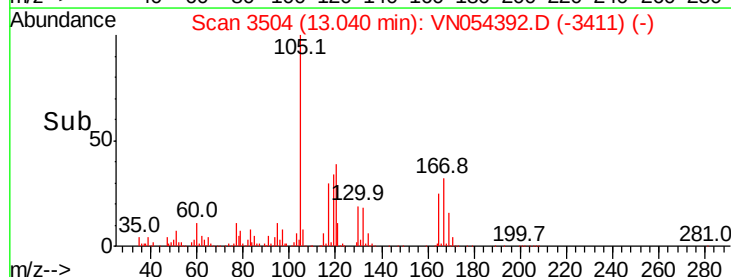
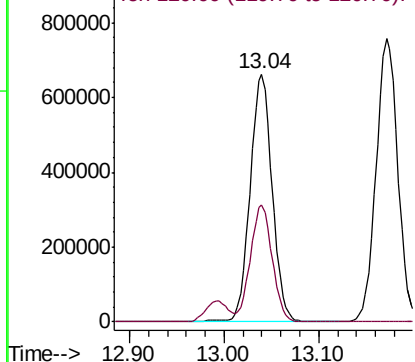
Lab File: VN054392.D

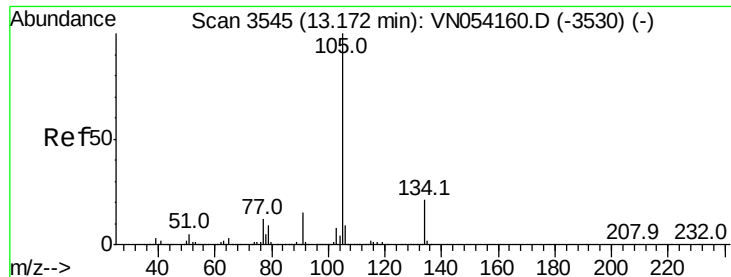
Acq: 18 Mar 2019 14:27

Tgt Ion:	105	Resp:	1069094
Ion Ratio	Lower	Upper	
105	100		
120	47.0	23.4	70.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.240 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

ClientSampleId :

VN0318WBSD01

Tot Ion:105 Resp: 1199534

Ion Ratio Lower Upper

105 100

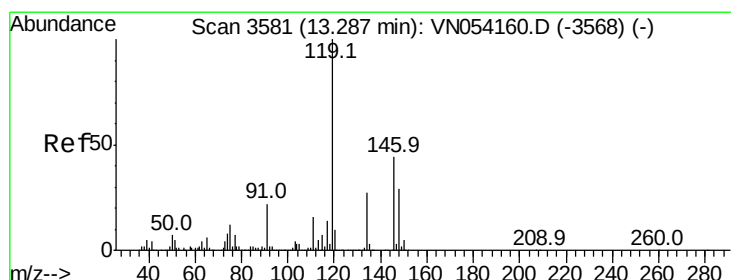
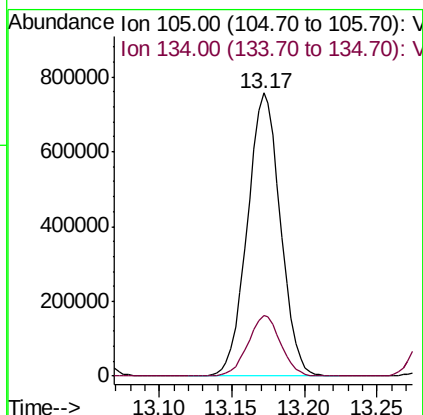
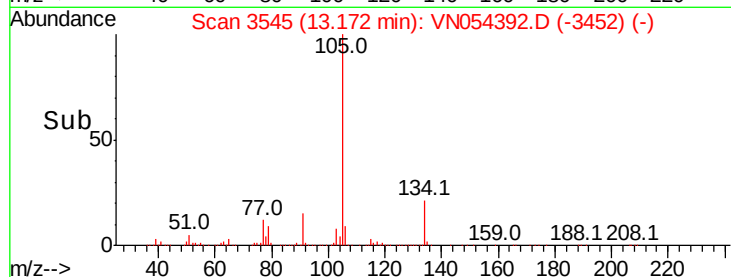
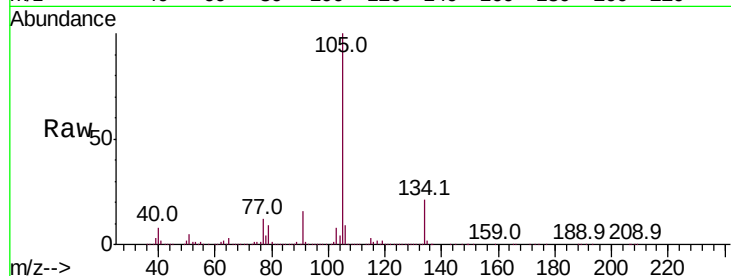
134 21.3 10.7 32.1

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#86

p-Isopropyltoluene

Concen: 19.915 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

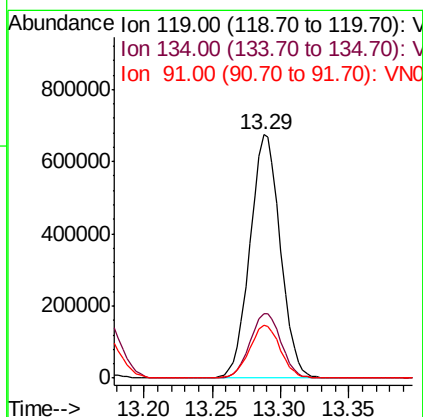
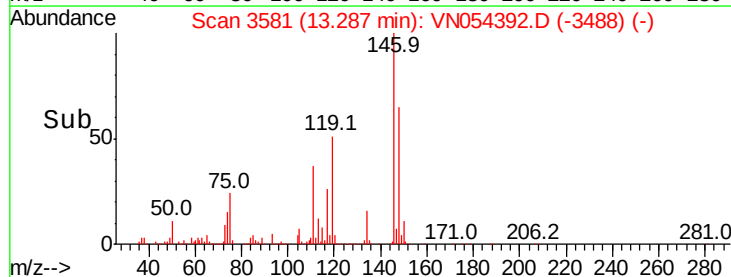
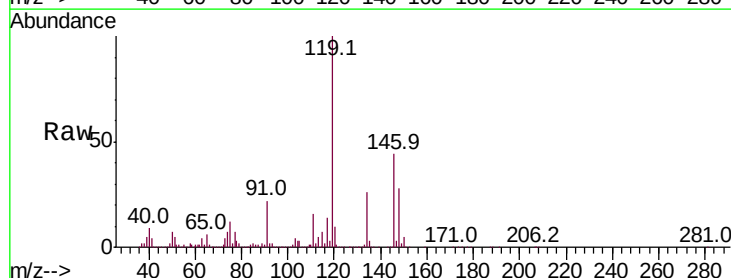
Tgt Ion:119 Resp: 1035471

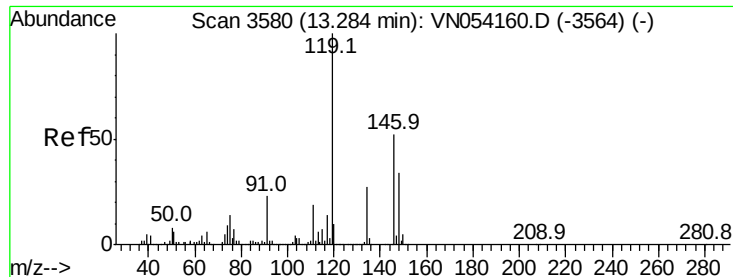
Ion Ratio Lower Upper

119 100

134 27.1 13.6 40.8

91 21.7 11.1 33.3





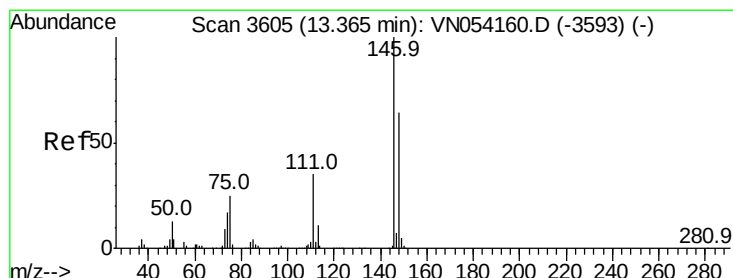
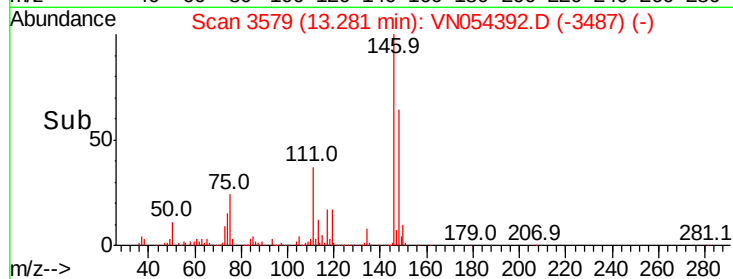
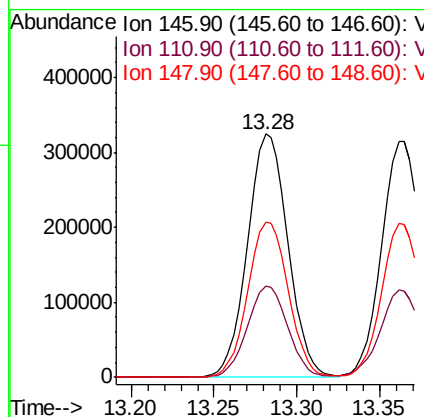
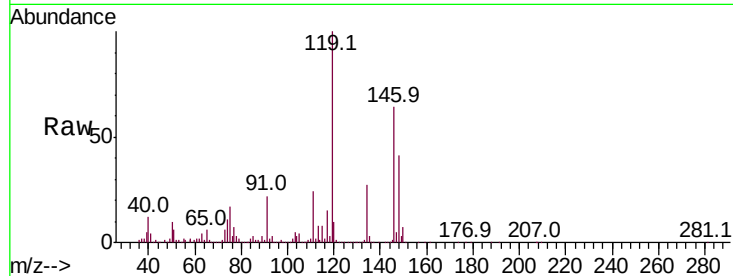
#87
 1,3-Dichlorobenzene
 Concen: 20.787 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN054392.D
 Acq: 18 Mar 2019 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0318WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.8	56.3
148	64.0	32.2	96.6

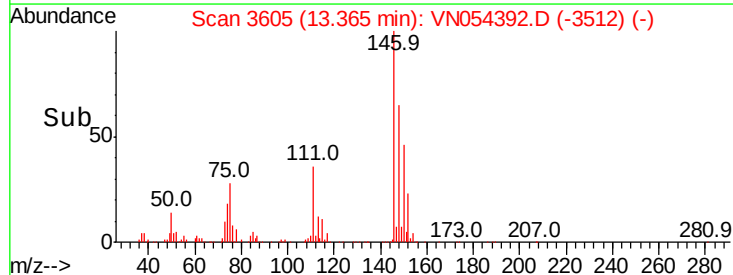
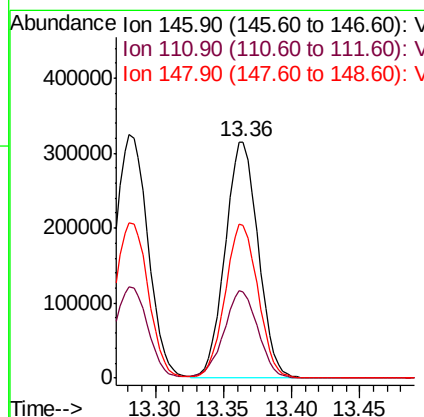
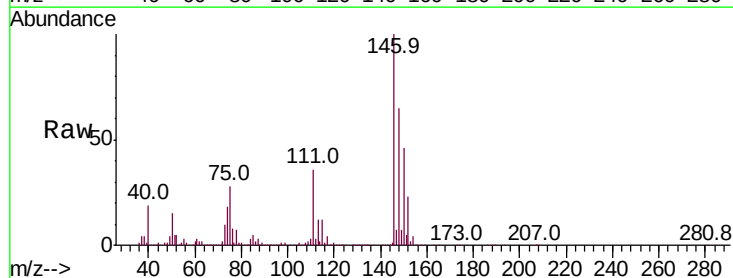
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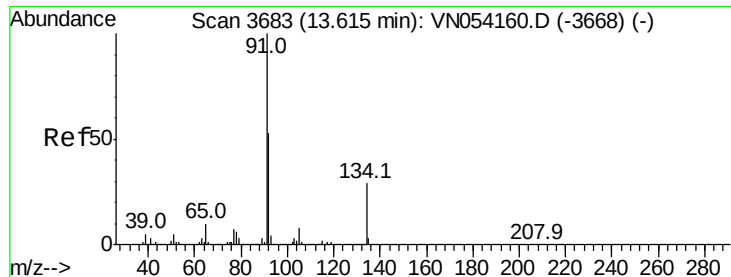
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#88
 1,4-Dichlorobenzene
 Concen: 20.266 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054392.D
 Acq: 18 Mar 2019 14:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.1	54.1
148	65.0	32.0	96.0





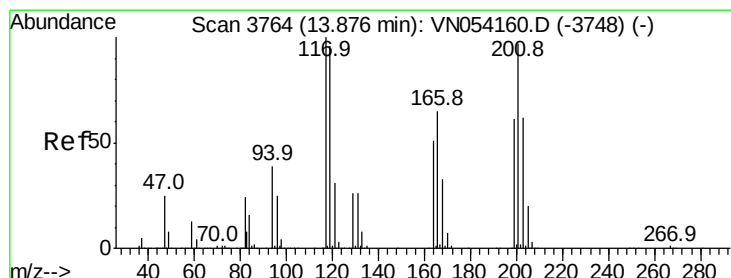
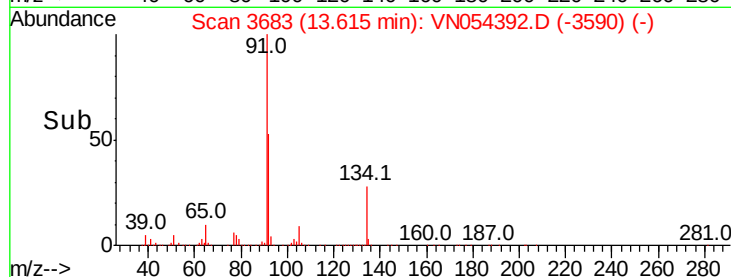
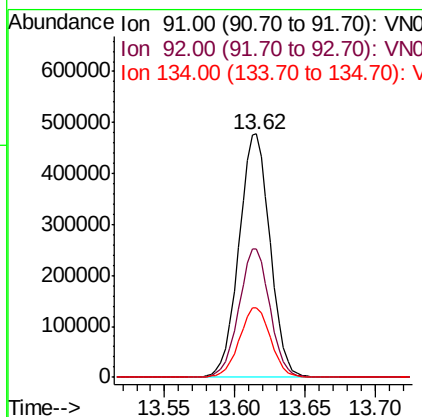
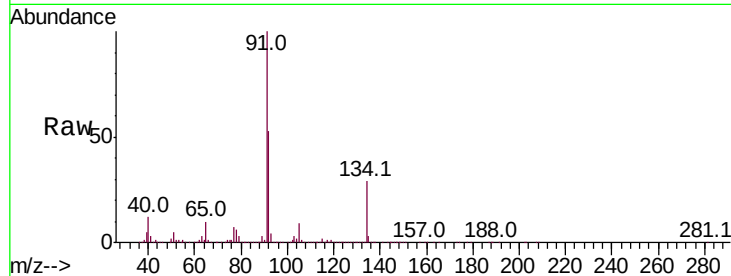
#89
n-Butylbenzene
Concen: 18.541 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Instrument :
MSVOA_N
ClientSampleId :
VN0318WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.2	78.6
134	28.9	14.3	42.9

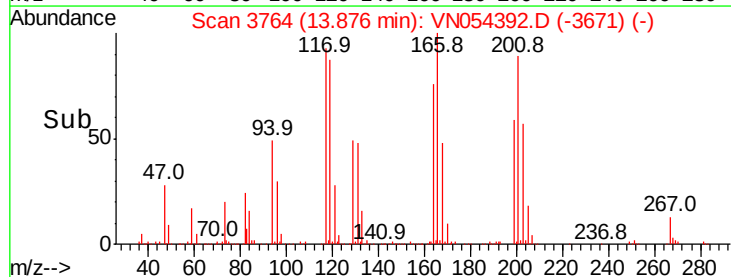
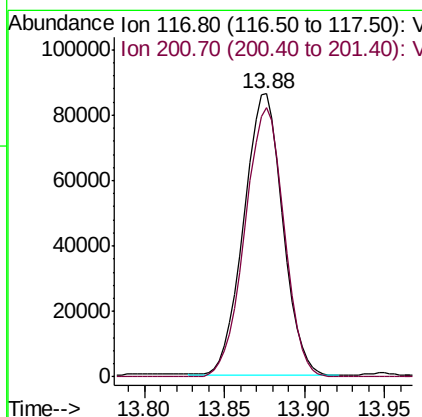
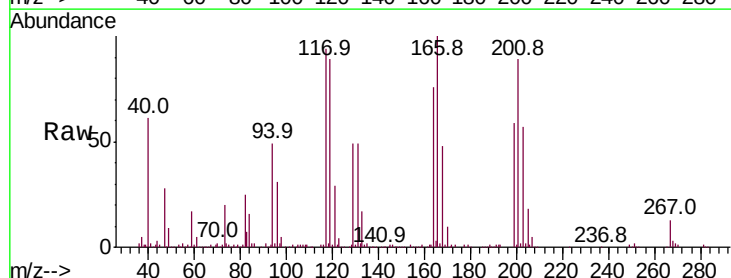
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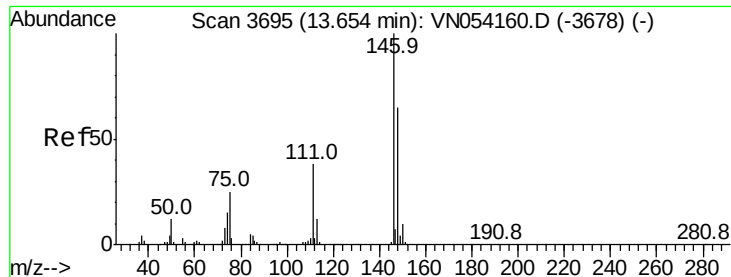
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#90
Hexachloroethane
Concen: 16.583 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN054392.D
Acq: 18 Mar 2019 14:27

Tgt Ion	Ratio	Lower	Upper
117	100		
201	96.3	48.1	144.4





#91

1,2-Dichlorobenzene

Concen: 21.473 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

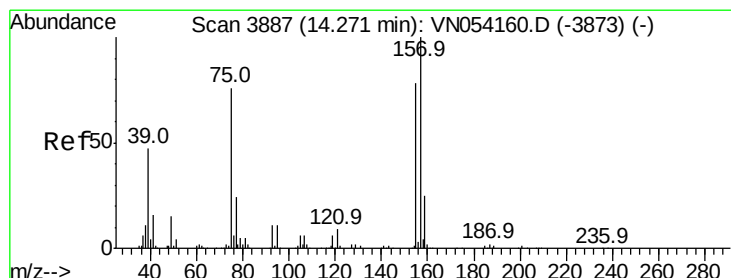
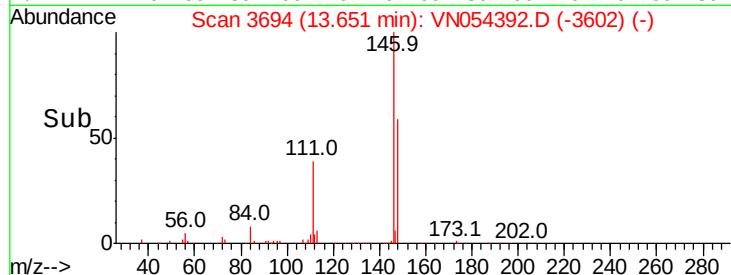
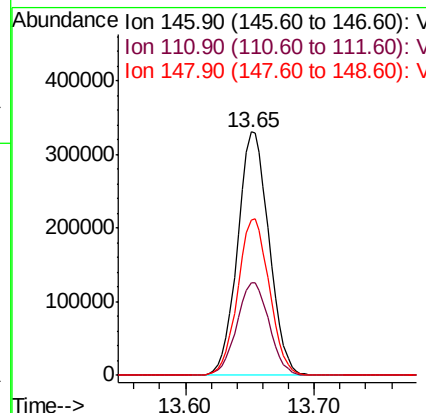
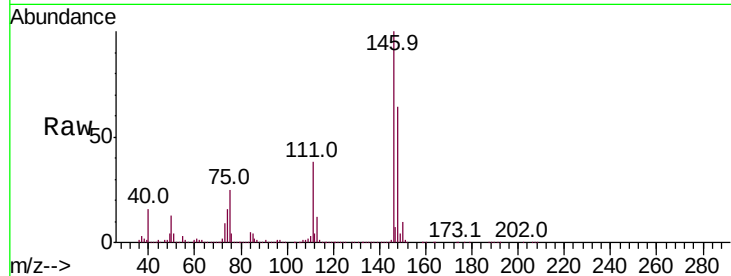
ClientSampleId :

VN0318WBSD01

Tot Ion:	146	Resp:	558691
Ion Ratio	Lower	Upper	
146	100		
111	38.8	19.1	57.3
148	64.7	32.4	97.0

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 18.395 ug/l

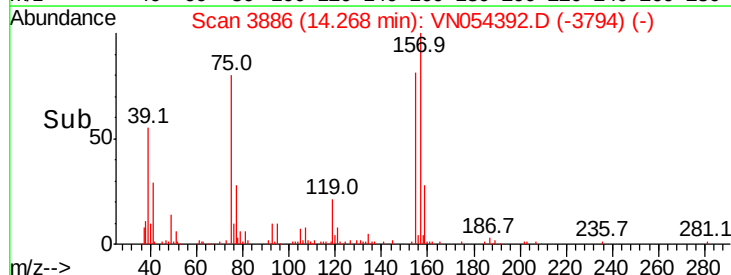
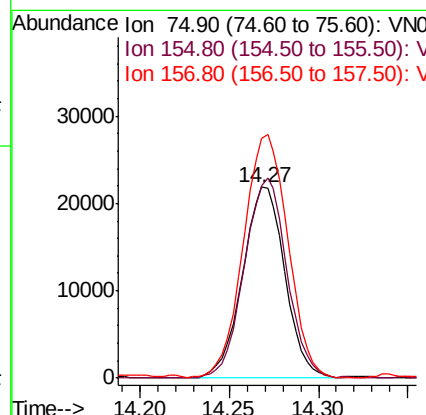
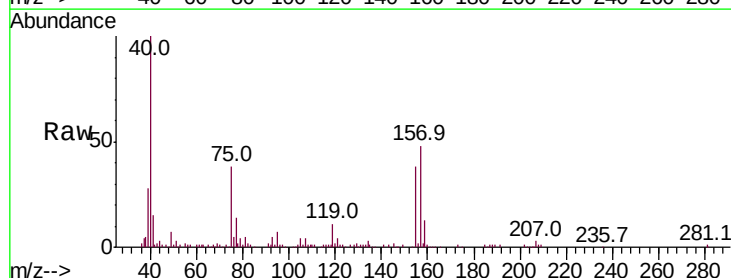
RT: 14.27 min Scan# 3886

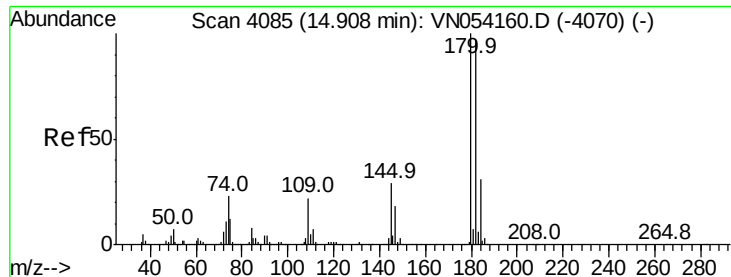
Delta R.T. -0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Tgt Ion:	75	Resp:	36201
Ion Ratio	Lower	Upper	
75	100		
155	104.8	50.1	150.3
157	134.2	63.1	189.3





#93

1,2,4-Trichlorobenzene

Concen: 17.370 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

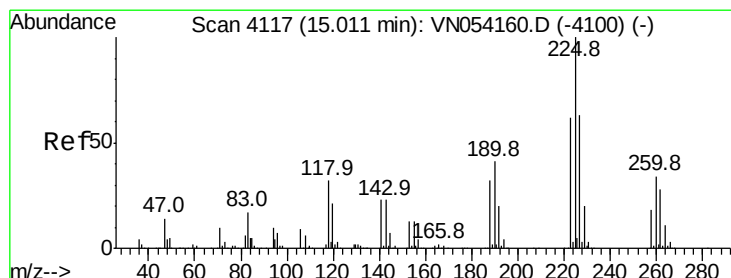
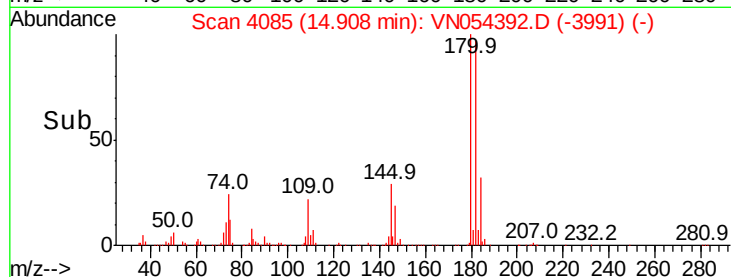
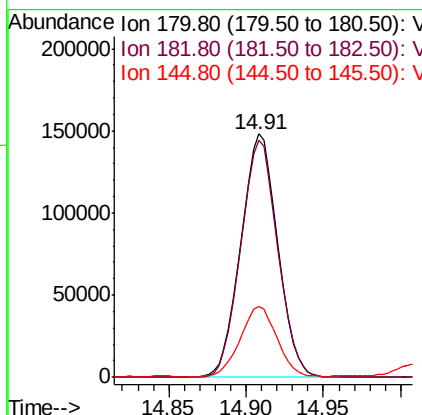
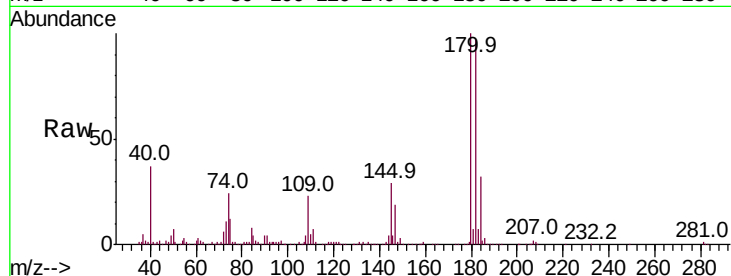
ClientSampleId :

VN0318WBSD01

Tot Ion:	180	Resp:	245687
Ion Ratio	Lower	Upper	
180	100		
182	97.4	48.0	144.2
145	28.4	14.2	42.8

Manual Integrations
APPROVED

MMDadoda
3/19/2019 9:24:05 AM



#94

Hexachlorobutadiene

Concen: 16.344 ug/l

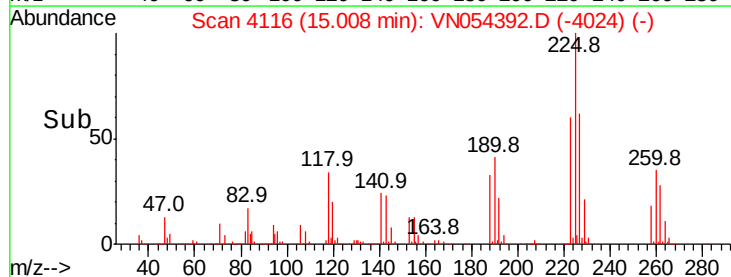
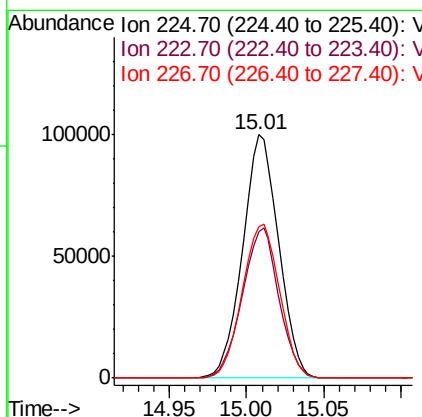
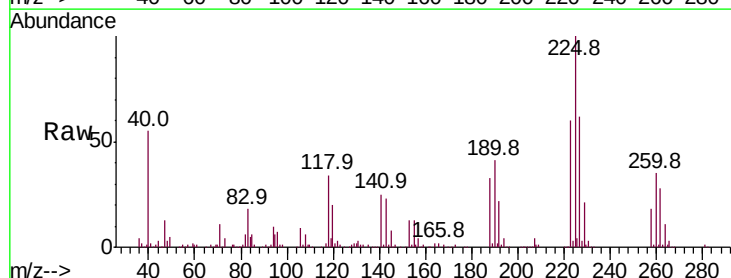
RT: 15.01 min Scan# 4116

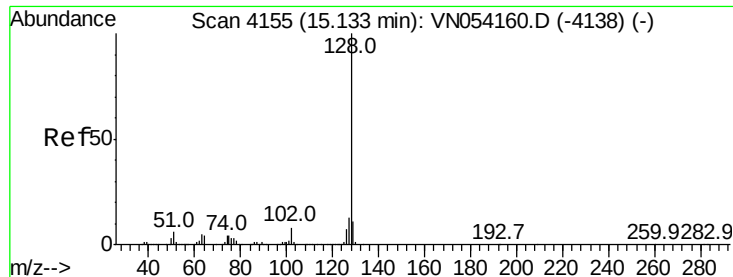
Delta R.T. -0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Tgt Ion:	225	Resp:	161978
Ion Ratio	Lower	Upper	
225	100		
223	62.5	31.1	93.5
227	65.5	31.9	95.9





#95

Naphthalene

Concen: 19.395 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Instrument :

MSVOA_N

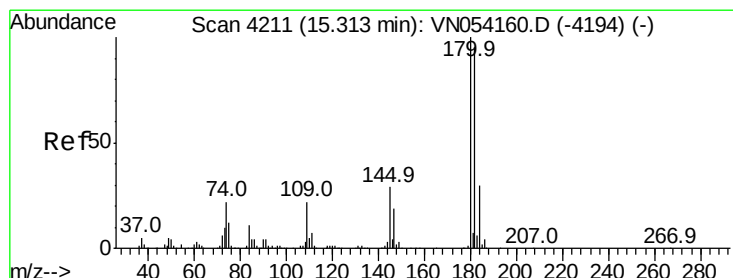
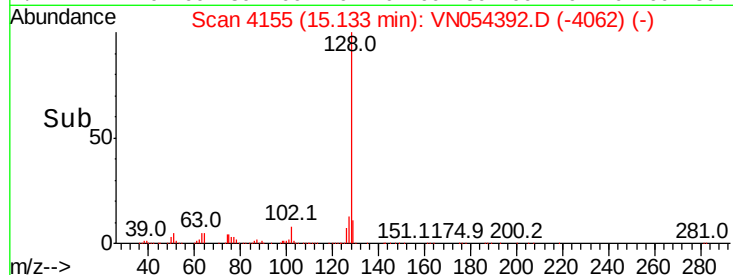
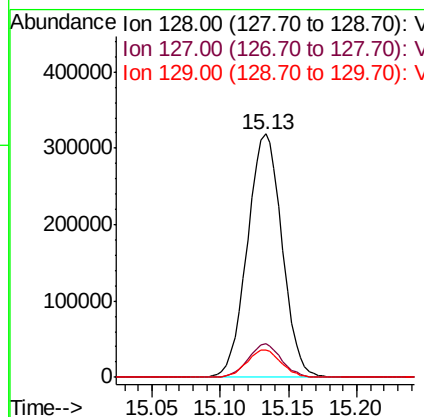
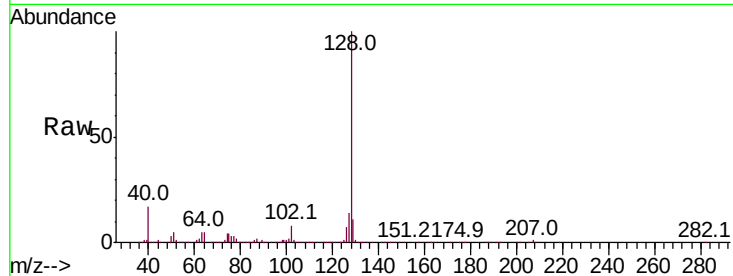
ClientSampleId :

VN0318WBSD01

Tot Ion:	128	Resp:	559992
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.1	15.1
129	11.1	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/19/2019 9:24:05 AM



#96

1,2,3-Trichlorobenzene

Concen: 18.871 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054392.D

Acq: 18 Mar 2019 14:27

Tgt Ion:	180	Resp:	260878
Ion Ratio	Lower	Upper	
180	100		
182	95.1	47.5	142.6
145	29.7	14.8	44.3

