

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031919\
 Data File : VN054435.D
 Acq On : 19 Mar 2019 12:41
 Operator : JC/SP
 Sample : VN0319MBS01
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0319MBS01

Manual Integrations
 APPROVED

MMDadoda
 3/20/2019 12:21:36 PM

Quant Time: Mar 20 04:06:14 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	1377558	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2044231	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1767635	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	917232	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	636294	43.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.98%	
35) Dibromofluoromethane	7.59	113	633471	48.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.10%	
50) Toluene-d8	10.09	98	2338019	48.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.04%	
62) 4-Bromofluorobenzene	12.40	95	785850	46.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.24%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	226783	17.370	ug/l	97
3) Chloromethane	2.06	50	216501	17.072	ug/l	98
4) Vinyl Chloride	2.19	62	223249	15.402	ug/l	98
5) Bromomethane	2.57	94	154204	15.360	ug/l	95
6) Chloroethane	2.71	64	130681	14.901	ug/l	99
7) Trichlorofluoromethane	3.02	101	291518	15.127	ug/l	100
8) Diethyl Ether	3.41	74	152430	17.357	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.75	101	242217	16.772	ug/l	98
10) Methyl Iodide	3.94	142	342865	17.714	ug/l	99
11) Tert butyl alcohol	4.81	59	82554	82.313	ug/l #	88
12) 1,1-Dichloroethene	3.73	96	236070	16.495	ug/l	96
13) Acrolein	3.61	56	58911	61.988	ug/l	96
14) Allyl chloride	4.32	41	324009	17.646	ug/l	92
15) Acrylonitrile	4.99	53	435519	105.715	ug/l	98
16) Acetone	3.82	43	291141	69.504	ug/l	98
17) Carbon Disulfide	4.04	76	501052	13.966	ug/l	100
18) Methyl Acetate	4.33	43	200435	23.651	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	718952	20.267	ug/l	98
20) Methylene Chloride	4.54	84	274143	19.932	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	258408	18.845	ug/l	99
22) Diisopropyl ether	5.96	45	734252	20.036	ug/l	97
23) Vinyl Acetate	5.90	43	2421103	89.604	ug/l	96
24) 1,1-Dichloroethane	5.85	63	468203	19.898	ug/l	99
25) 2-Butanone	6.85	43	483958	98.438	ug/l	96
26) 2,2-Dichloropropane	6.82	77	312628	15.108	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	311105	20.337	ug/l	95
28) Bromochloromethane	7.19	49	183001	19.024	ug/l	93
29) Tetrahydrofuran	7.22	42	309813	98.009	ug/l	93
30) Chloroform	7.37	83	478461	19.486	ug/l	99
31) Cyclohexane	7.65	56	417287	18.187	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	391952	17.675	ug/l	98
36) 1,1-Dichloropropene	7.79	75	350218	18.603	ug/l	98
37) Ethyl Acetate	6.94	43	202081	18.682	ug/l #	95
38) Carbon Tetrachloride	7.77	117	326650	16.546	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	423740	18.294	ug/l	97
40) Benzene	8.04	78	1104403	20.501	ug/l	99
41) Methacrylonitrile	7.18	41	120106	19.447	ug/l	97
42) 1,2-Dichloroethane	8.12	62	329727	18.129	ug/l	97
43) Isopropyl Acetate	8.17	43	336797	17.738	ug/l	96
44) Trichloroethene	8.84	130	331235	19.793	ug/l	98
45) 1,2-Dichloropropane	9.12	63	282173	21.094	ug/l	98
46) Dibromomethane	9.21	93	172527	19.089	ug/l	100
47) Bromodichloromethane	9.40	83	328552	18.133	ug/l	97
48) Methyl methacrylate	9.20	41	182127	18.902	ug/l	89
49) 1,4-Dioxane	9.20	88	58100	426.289	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	1014356	100.952	ug/l	94
52) Toluene	10.16	92	683709	20.016	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	294401	15.628	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	381151	18.052	ug/l	92
55) 1,1,2-Trichloroethane	10.56	97	256956	20.602	ug/l	98
56) Ethyl methacrylate	10.43	69	308769	20.762	ug/l #	92
57) 1,3-Dichloropropane	10.71	76	419012	20.546	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	626105	107.336	ug/l	99
59) 2-Hexanone	10.75	43	647648	96.868	ug/l	93
60) Dibromochloromethane	10.90	129	249312	17.759	ug/l	99
61) 1,2-Dibromoethane	11.01	107	258708	20.411	ug/l	98
64) Tetrachloroethene	10.63	164	322405	18.865	ug/l	99
65) Chlorobenzene	11.43	112	794690	20.475	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	276164	19.587	ug/l	97
67) Ethyl Benzene	11.51	91	1301076	20.222	ug/l	100
68) m/p-Xylenes	11.62	106	1024855	40.756	ug/l	97
69) o-Xylene	11.95	106	519522	21.193	ug/l	94
70) Styrene	11.96	104	815598	21.214	ug/l	98
71) Bromoform	12.13	173	156157	16.197	ug/l #	97
73) Isopropylbenzene	12.25	105	1342885	18.299	ug/l	99
74) N-amyl acetate	12.07	43	285090	17.502	ug/l #	89
75) 1,1,2,2-Tetrachloroethane	12.50	83	289720	18.530	ug/l #	86
76) 1,2,3-Trichloropropane	12.55	75	284422m	21.087	ug/l	
77) Bromobenzene	12.53	156	2046894	105.409	ug/l #	14
78) n-propylbenzene	12.59	91	1424554	17.890	ug/l	98
79) 2-Chlorotoluene	12.67	91	839852	17.542	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	1200113	19.661	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.30	75	45729	11.589	ug/l #	81
82) 4-Chlorotoluene	12.77	91	855896	17.903	ug/l	97
83) tert-Butylbenzene	12.99	119	975876	17.369	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	1100627	18.379	ug/l	99
85) sec-Butylbenzene	13.17	105	1248157	17.130	ug/l	100
86) p-Isopropyltoluene	13.29	119	1116269	17.463	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	575813	17.598	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	559876	17.418	ug/l	98
89) n-Butylbenzene	13.62	91	850365	17.508	ug/l	99
90) Hexachloroethane	13.87	117	130342	12.314	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	585815	18.314	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	41938	17.334	ug/l	98

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QLast Update : Wed Mar 13 03:33:31 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	330803	18.784	ug/l	97
94) Hexachlorobutadiene	15.01	225	178885	14.682	ug/l	97
95) Naphthalene	15.13	128	867789	23.544	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	336762	19.814	ug/l	93

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

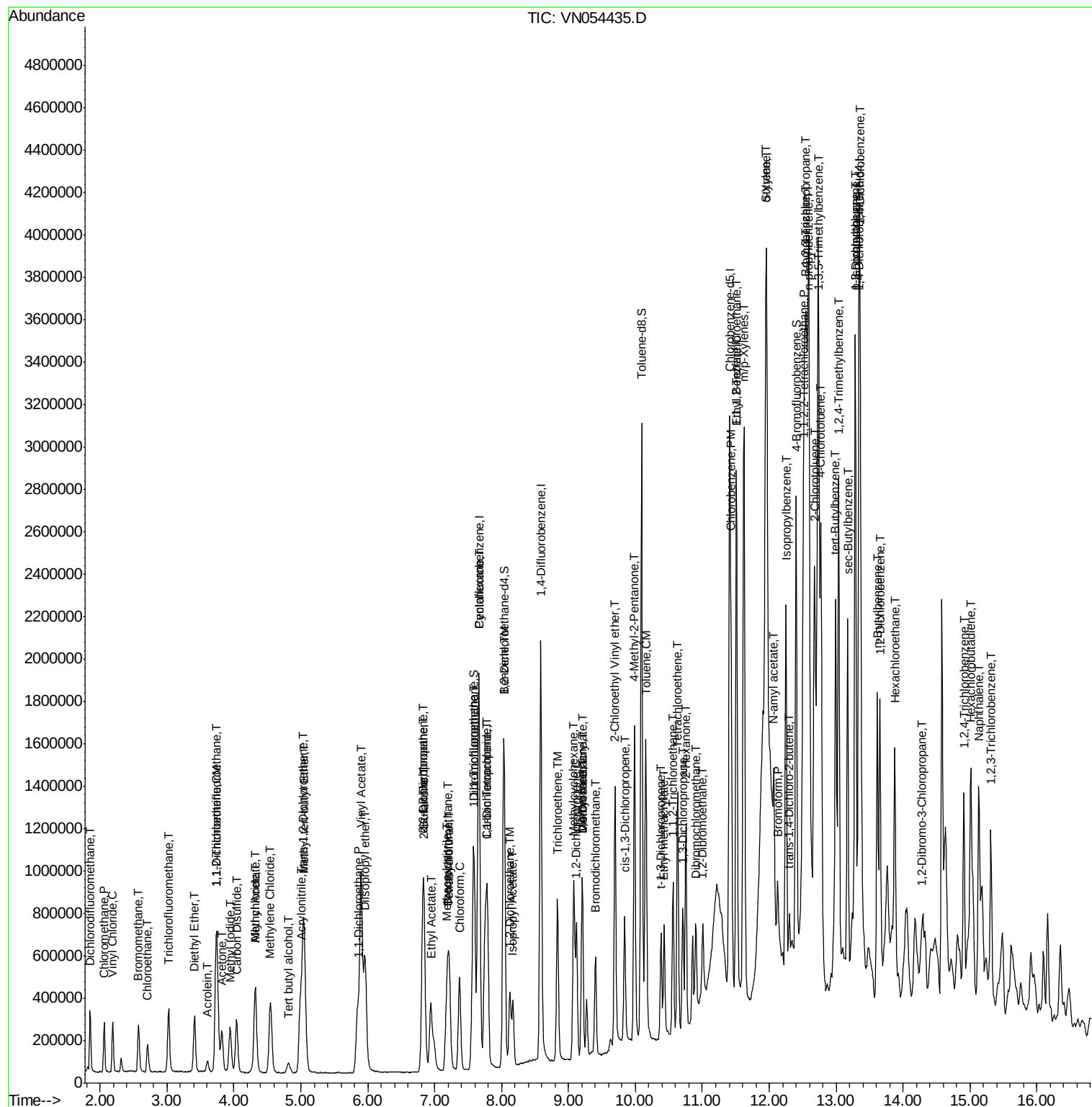
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031919\
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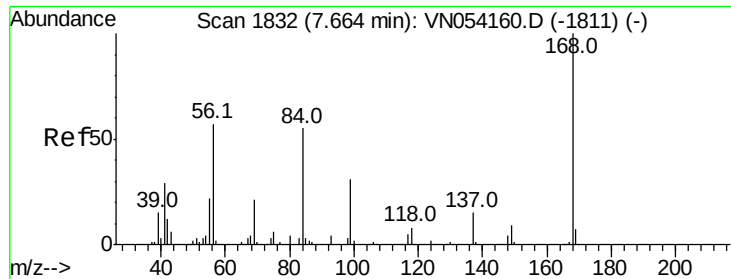
Instrument :
 MSVOA_N
 ClientSampleId :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

VN0319MBS01

Tot Ion:168 Resp: 1377558

Ion Ratio Lower Upper

168 100

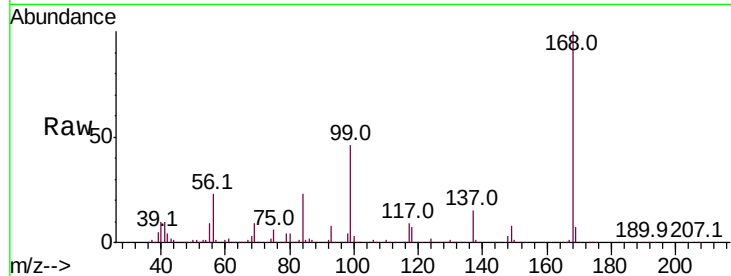
99 45.7 37.1 55.7

Manual Integrations

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3/20/2019 12:21:36 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

600000

500000

400000

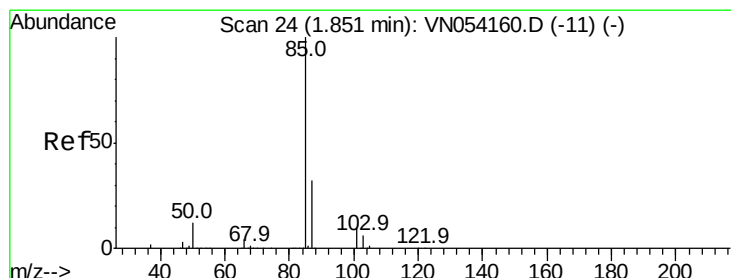
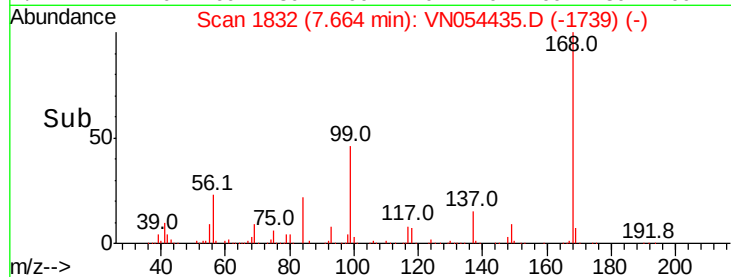
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: 17.370 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN054435.D

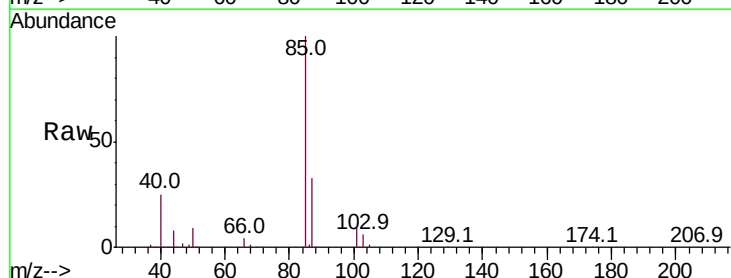
Acq: 19 Mar 2019 12:41

Tgt Ion: 85 Resp: 226783

Ion Ratio Lower Upper

85 100

87 33.3 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

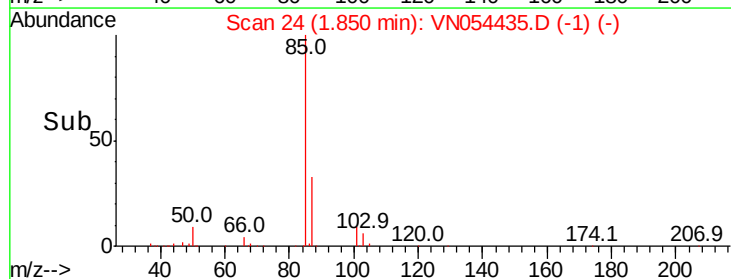
150000

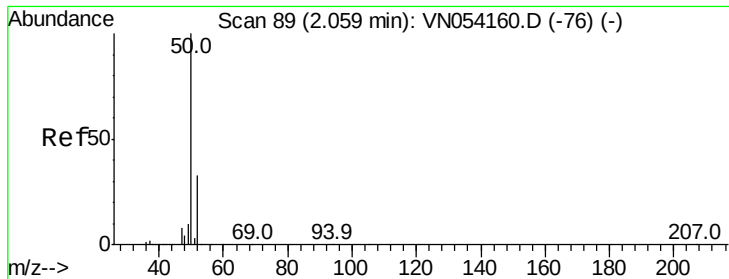
100000

50000

0

Time--> 1.80 1.85 1.90 1.95





#3

Chloromethane

Concen: 17.072 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

VN0319MBS01

Tot Ion: 50 Resp: 216501

Ion Ratio Lower Upper

50 100

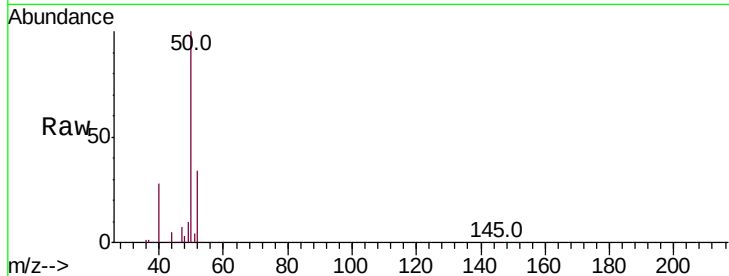
52 34.3 26.4 39.6

Manual Integrations

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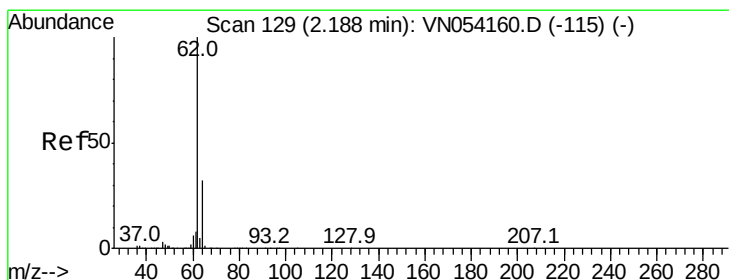
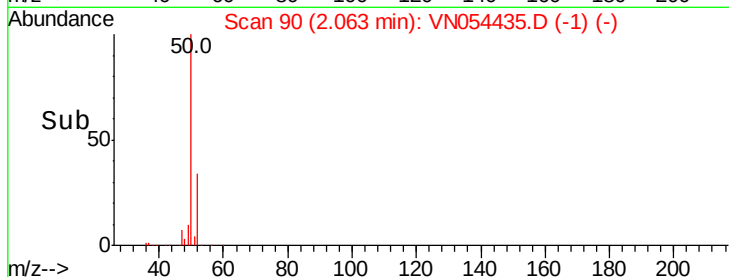
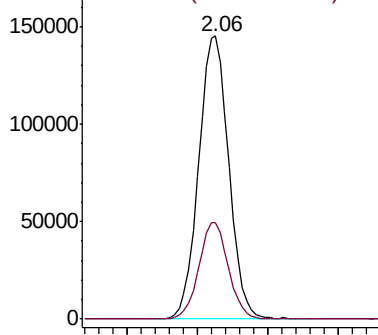
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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 15.402 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054435.D

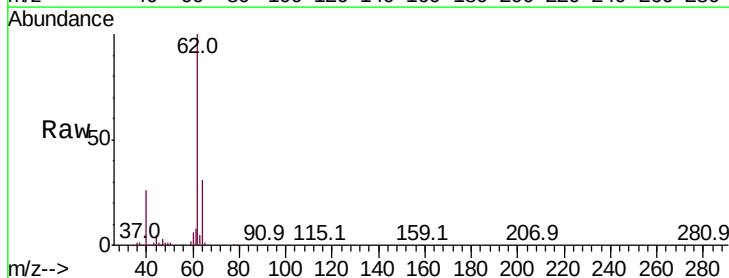
Acq: 19 Mar 2019 12:41

Tgt Ion: 62 Resp: 223249

Ion Ratio Lower Upper

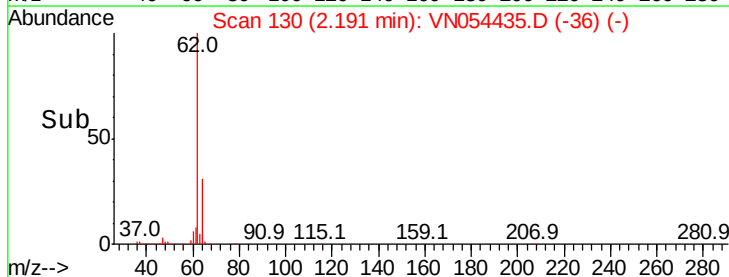
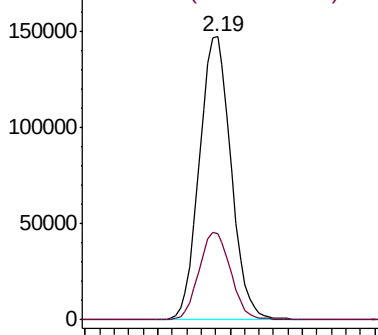
62 100

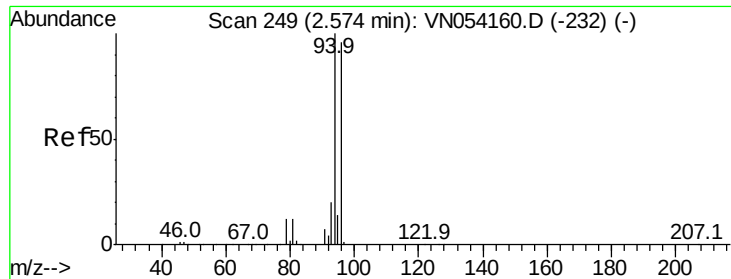
64 30.6 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 15.360 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

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Acq: 19 Mar 2019 12:41

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Tot Ion: 94 Resp: 154204

Ion Ratio Lower Upper

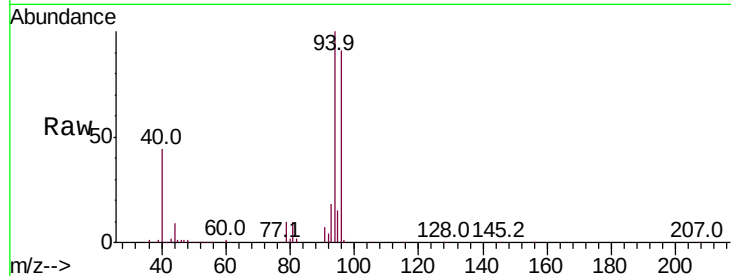
94 100

96 91.0 77.0 115.4

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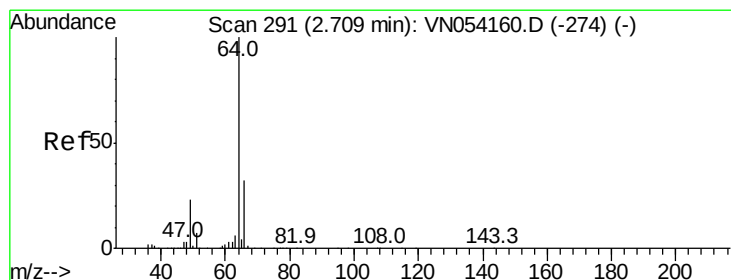
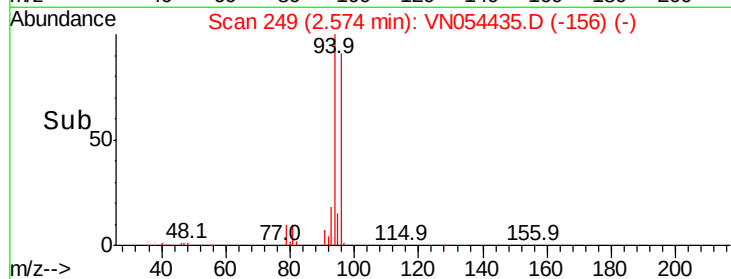
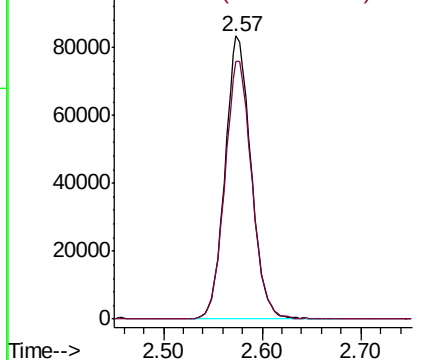
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 14.901 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN054435.D

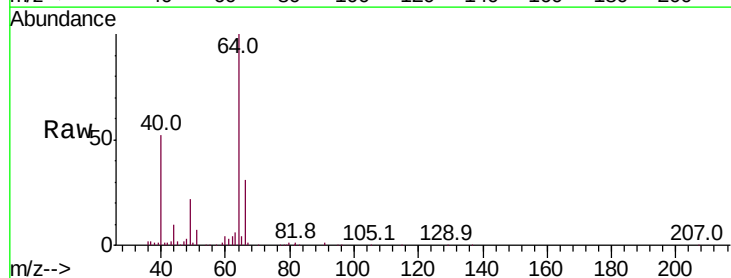
Acq: 19 Mar 2019 12:41

Tgt Ion: 64 Resp: 130681

Ion Ratio Lower Upper

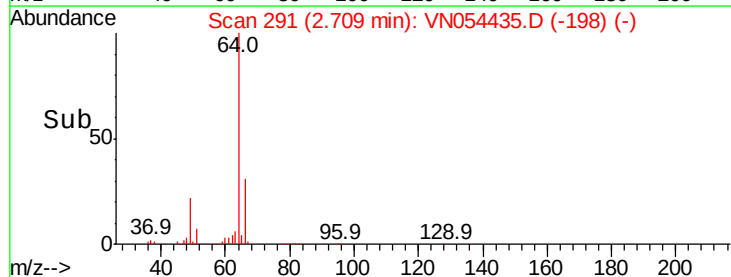
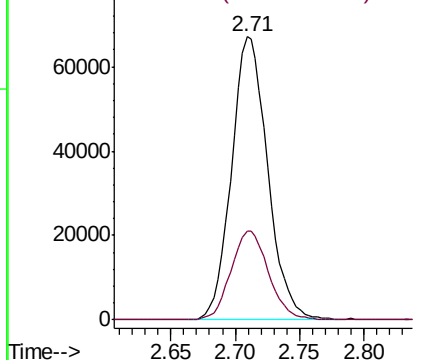
64 100

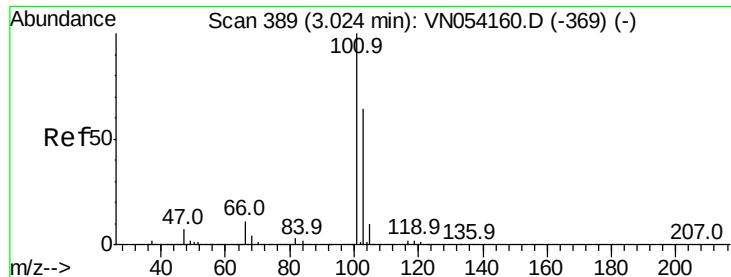
66 31.4 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

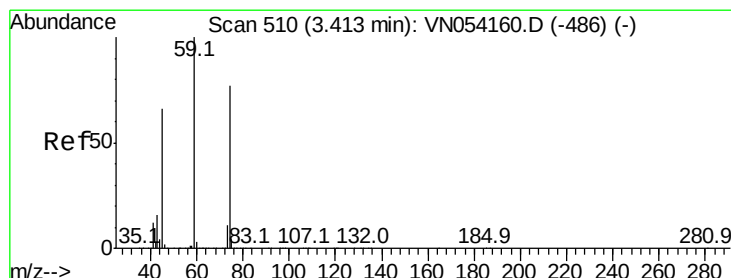
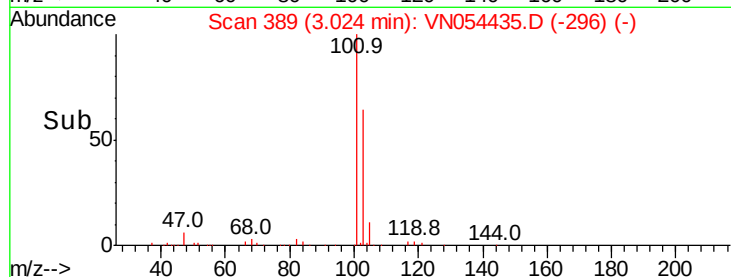
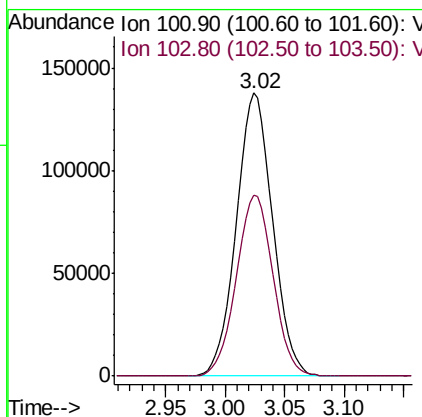
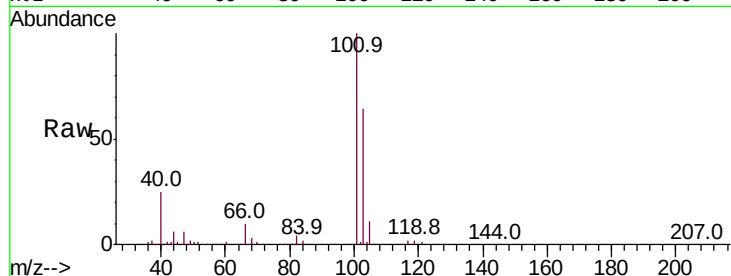
Trichlorofluoromethane
 Concen: 15.127 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN054435.D
 Acq: 19 Mar 2019 12:41

Instrument :
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 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.4	77.2

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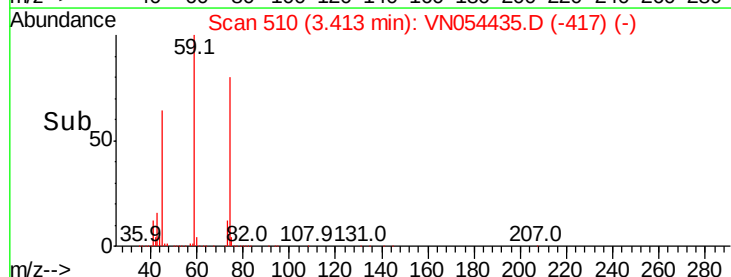
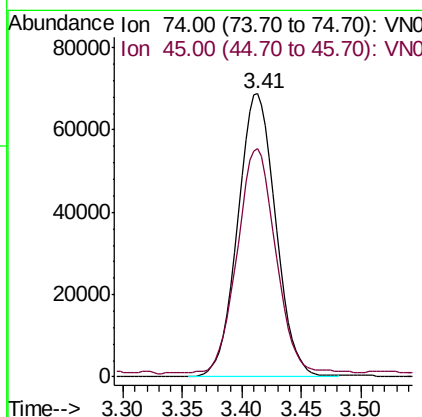
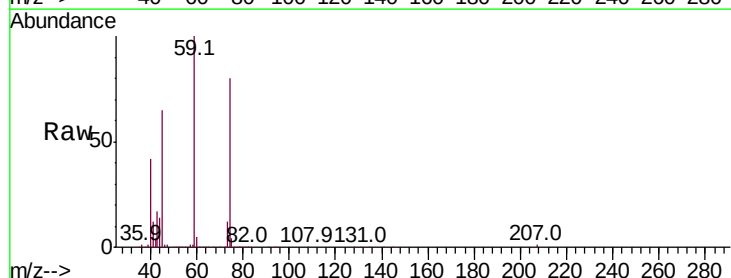
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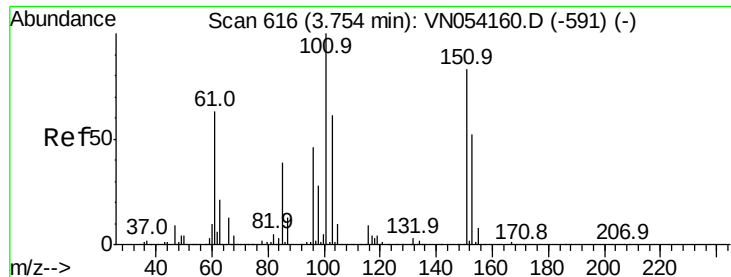


#8

Diethyl Ether
 Concen: 17.357 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN054435.D
 Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Lower	Upper
74	100		
45	79.1	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 16.772 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

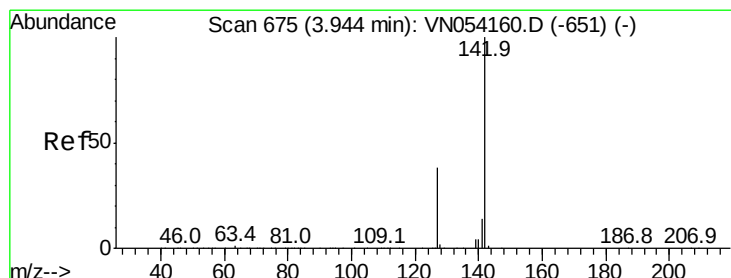
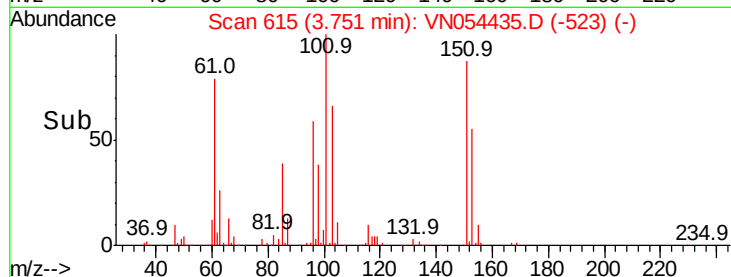
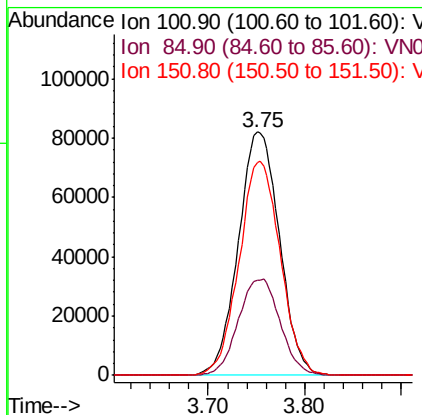
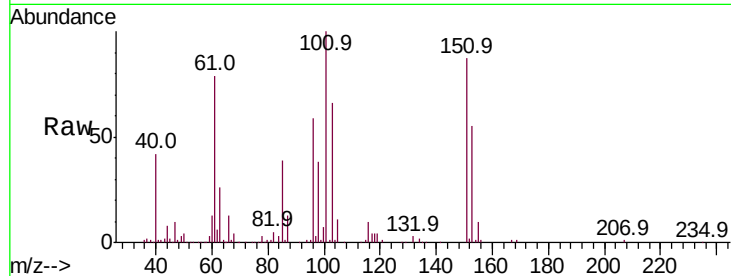
ClientSampled :

VN0319MBS01

Tot Ion:	101	Resp:	242217
Ion Ratio	Lower	Upper	
101	100		
85	40.2	32.4	48.6
151	88.1	68.2	102.2

Manual Integrations
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#10

Methyl Iodide

Concen: 17.714 ug/l

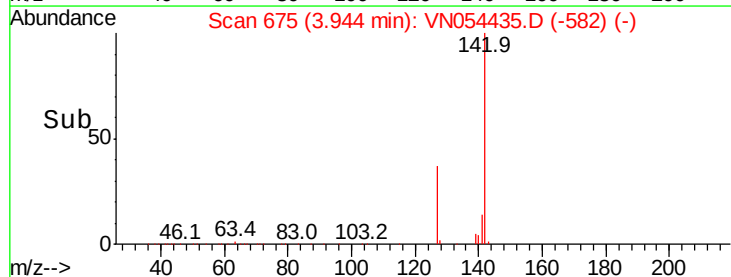
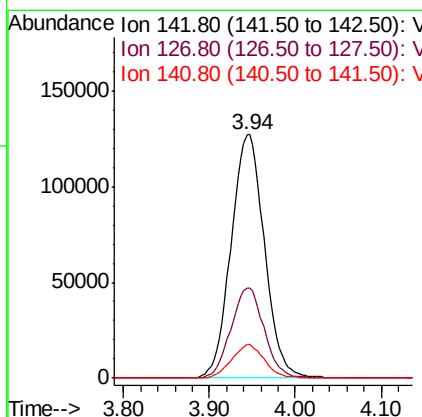
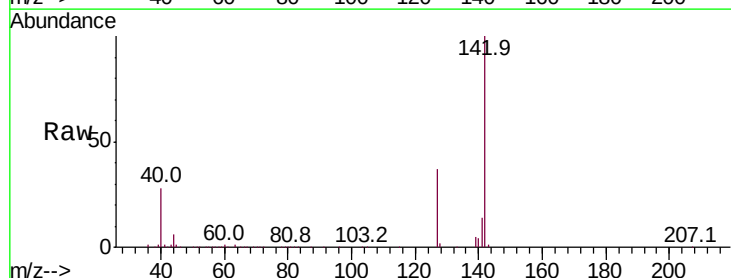
RT: 3.94 min Scan# 675

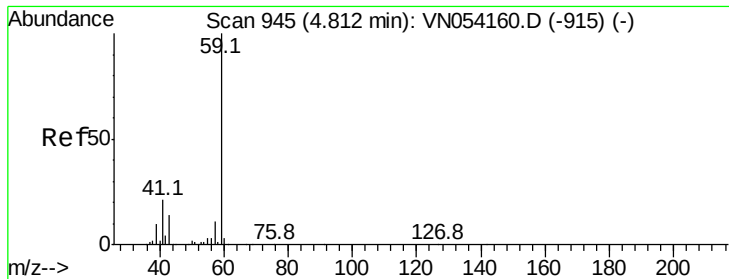
Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Tgt Ion:	142	Resp:	342865
Ion Ratio	Lower	Upper	
142	100		
127	37.0	30.3	45.5
141	13.6	11.2	16.8





#11

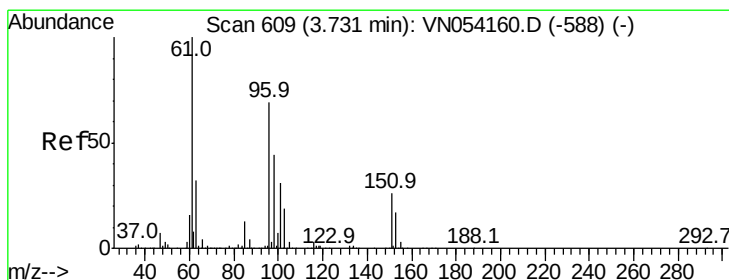
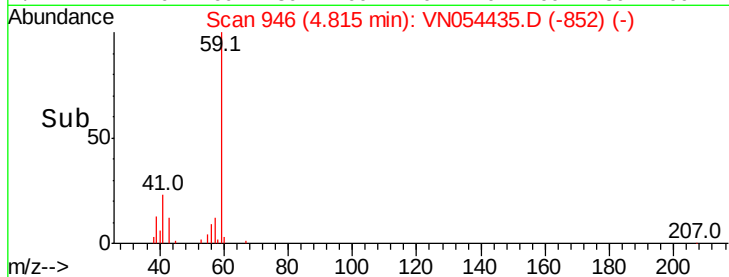
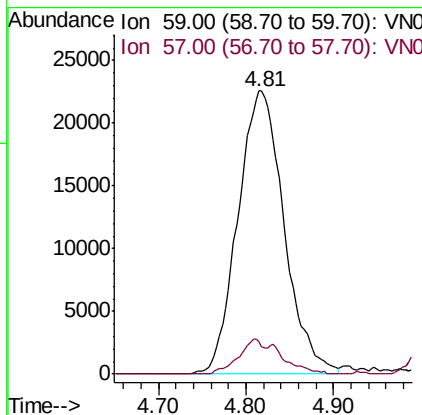
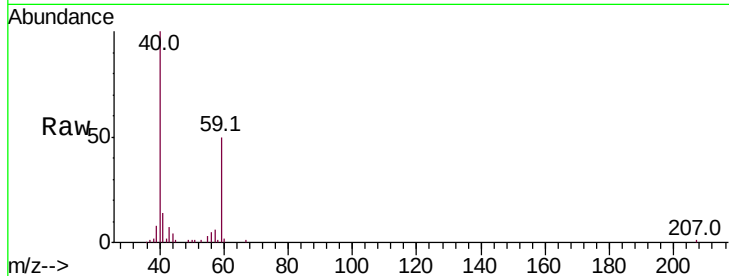
Tert butyl alcohol
Concen: 82.313 ug/l
RT: 4.81 min Scan# 946
Delta R.T. 0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Instrument :
MSVOA_N
ClientSampled :
VN0319MBS01

Tot Ion	59	Resp	82554
Ion Ratio	100	Lower	Upper
57	6.6	9.0	13.6#

Manual Integrations
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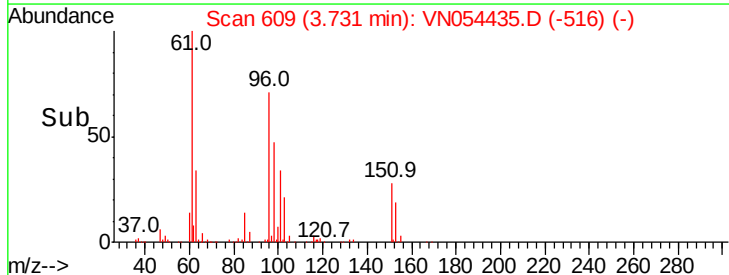
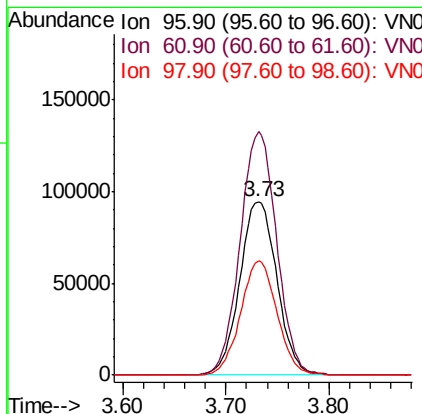
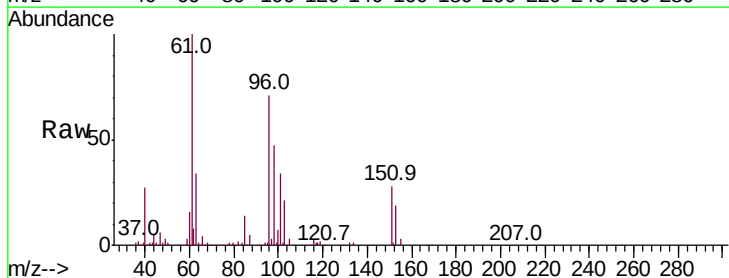
MMDadoda
3/20/2019 12:21:36 PM

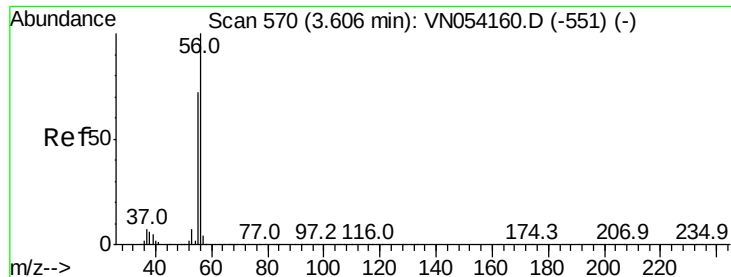


#12

1,1-Dichloroethene
Concen: 16.495 ug/l
RT: 3.73 min Scan# 609
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Tgt Ion	96	Resp	236070
Ion Ratio	100	Lower	Upper
61	140.3	116.5	174.7
98	65.8	51.0	76.4





#13

Acrolein

Concen: 61.988 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

VN0319MBS01

Tot Ion: 56 Resp: 58911

Ion Ratio Lower Upper

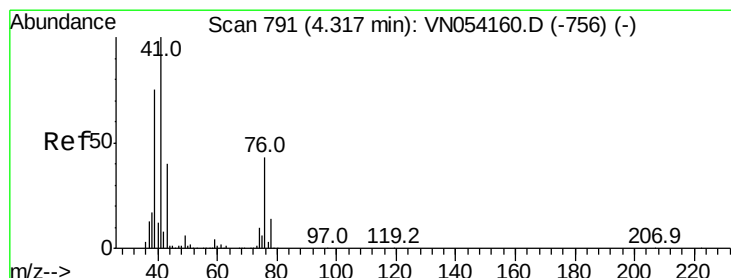
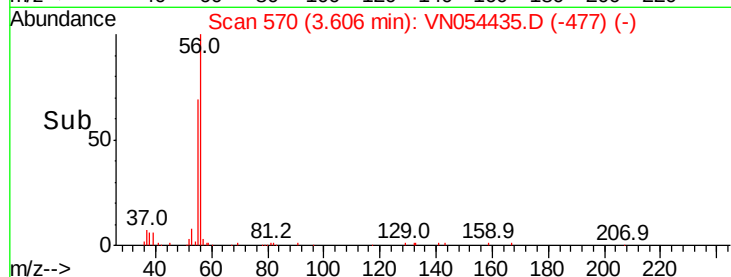
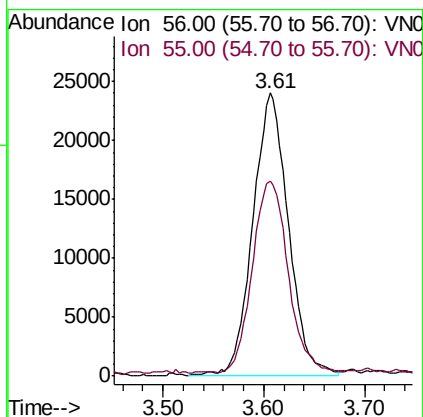
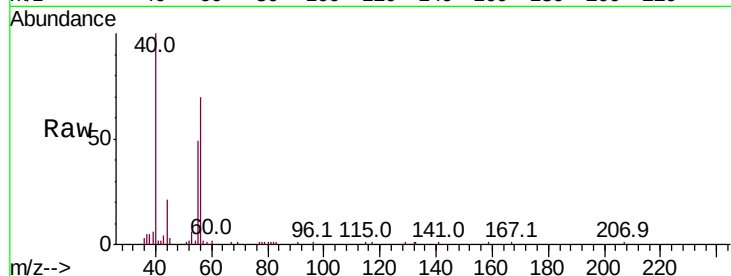
56 100

55 68.0 56.7 85.1

Manual Integrations
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#14

Allyl chloride

Concen: 17.646 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

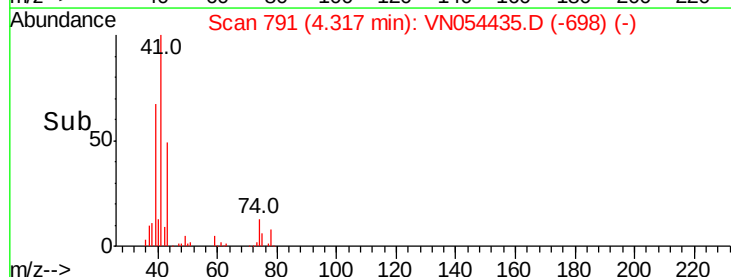
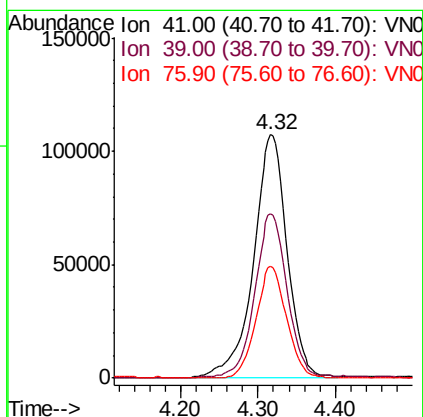
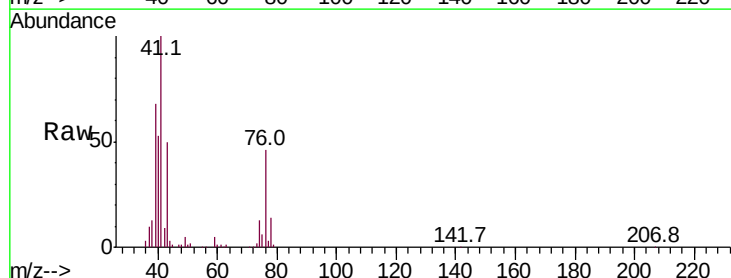
Tgt Ion: 41 Resp: 324009

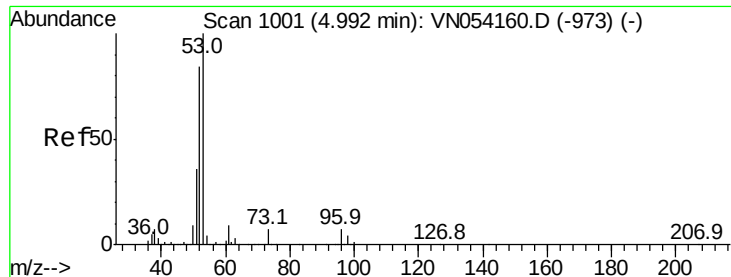
Ion Ratio Lower Upper

41 100

39 64.5 58.2 87.4

76 41.8 31.7 47.5





#15

Acrylonitrile

Concen: 105.715 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

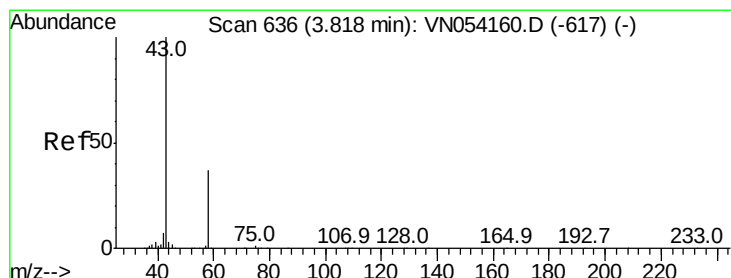
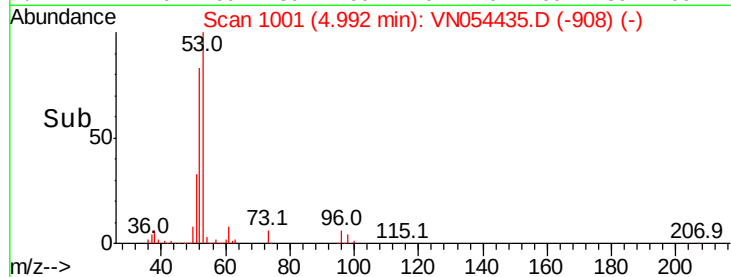
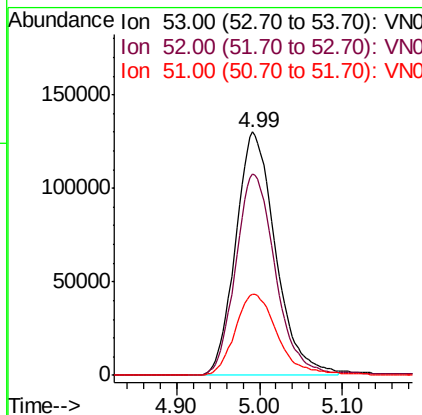
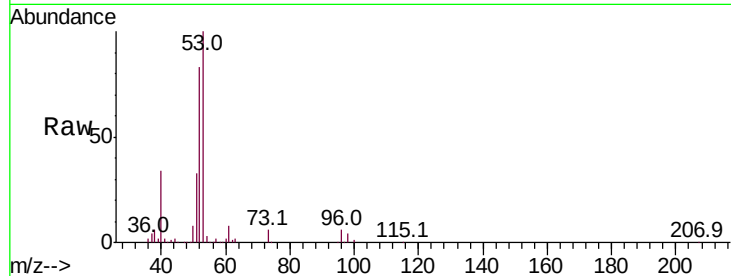
ClientSampleId :

VN0319MBS01

Tot Ion:	53	Resp:	435519
Ion	Ratio	Lower	Upper
53	100		
52	81.9	66.4	99.6
51	35.7	29.6	44.4

Manual Integrations
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#16

Acetone

Concen: 69.504 ug/l

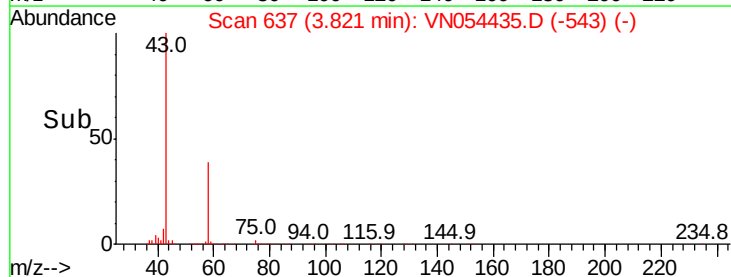
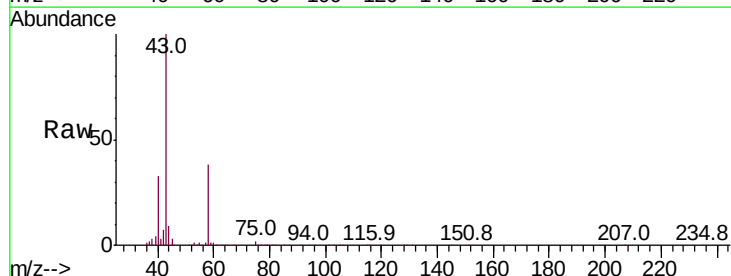
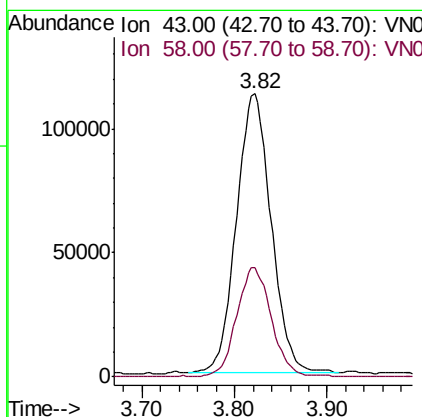
RT: 3.82 min Scan# 637

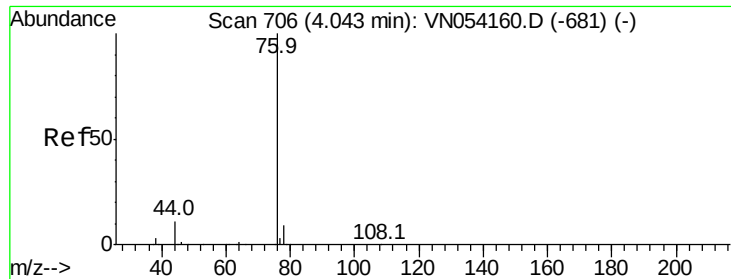
Delta R.T. 0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Tgt Ion:	43	Resp:	291141
Ion	Ratio	Lower	Upper
43	100		
58	38.9	29.9	44.9





#17

Carbon Disulfide

Concen: 13.966 ug/l

RT: 4.04 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

VN0319MBS01

Tot Ion: 76 Resp: 501052

Ion Ratio Lower Upper

76 100

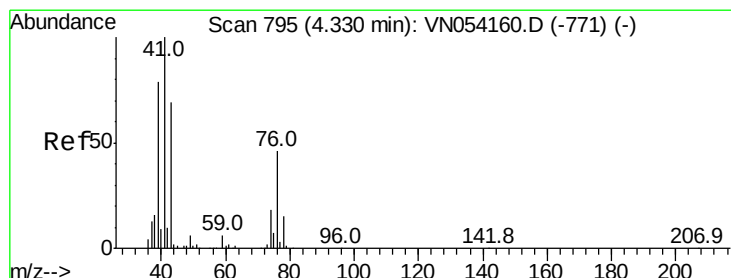
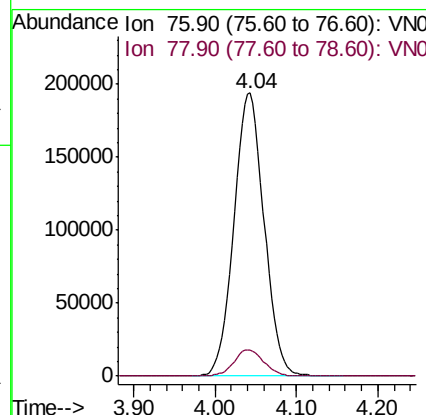
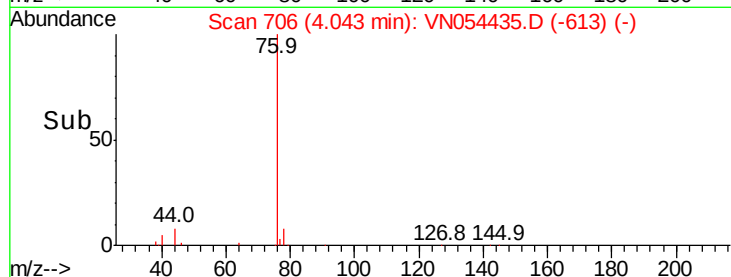
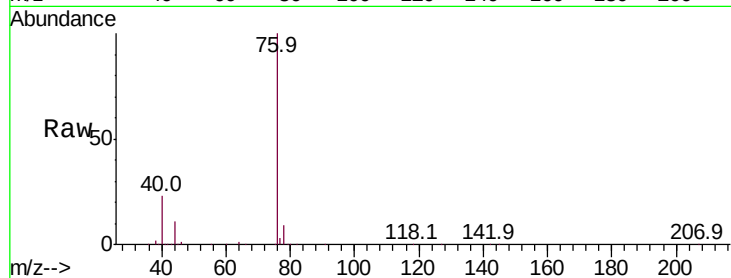
78 9.4 7.5 11.3

Manual Integrations

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#18

Methyl Acetate

Concen: 23.651 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN054435.D

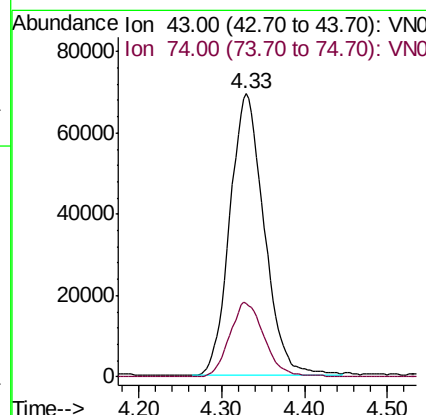
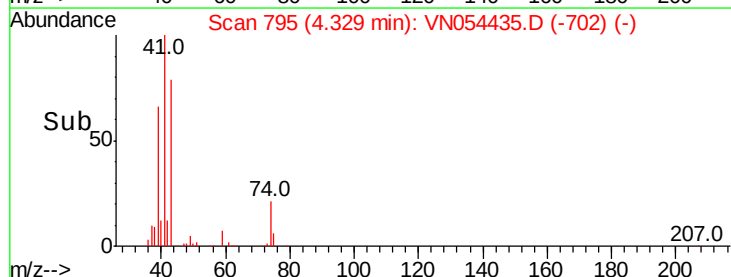
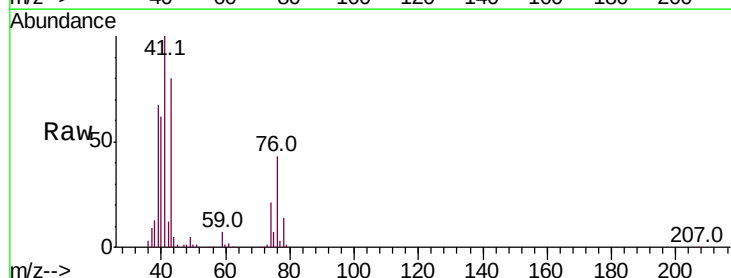
Acq: 19 Mar 2019 12:41

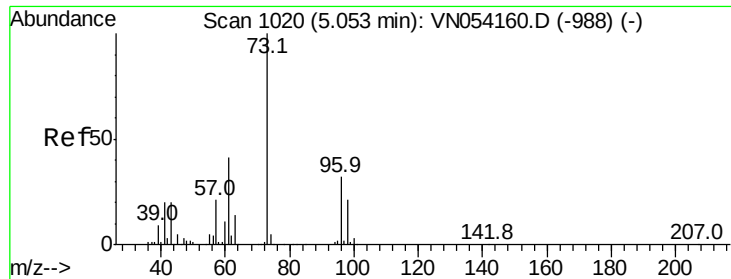
Tgt Ion: 43 Resp: 200435

Ion Ratio Lower Upper

43 100

74 26.7 20.8 31.2





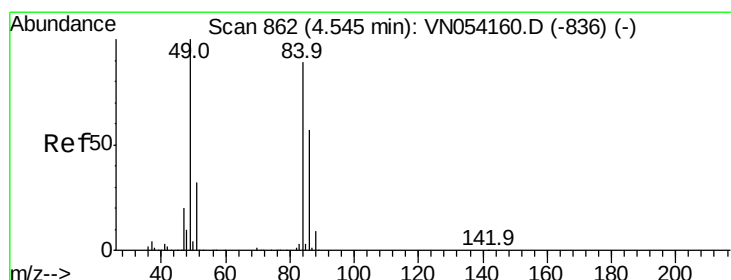
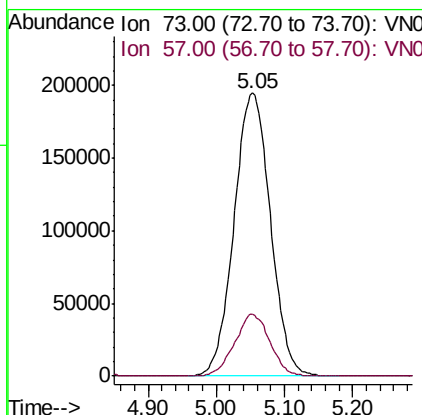
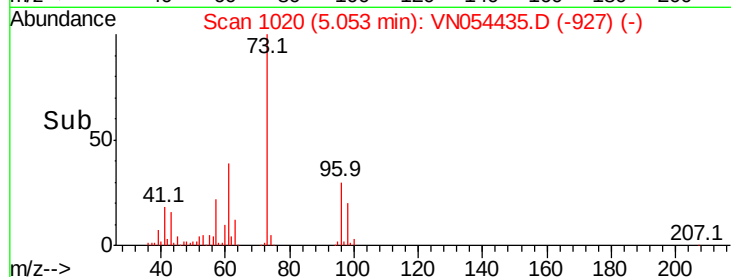
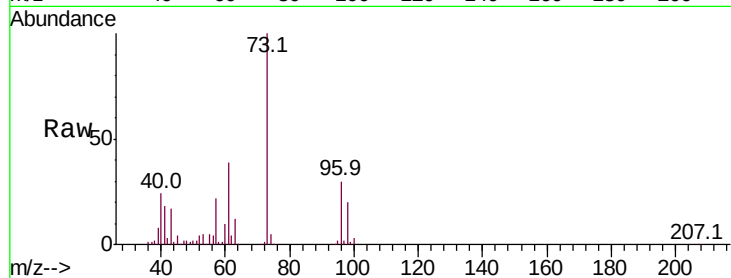
#19
Methvl tert-butyl Ether
Concen: 20.267 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Instrument :
MSVOA_N
ClientSampleId :
VN0319MBS01

Tot Ion: 73 Resp: 718952
Ion Ratio Lower Upper
73 100
57 21.9 16.8 25.2

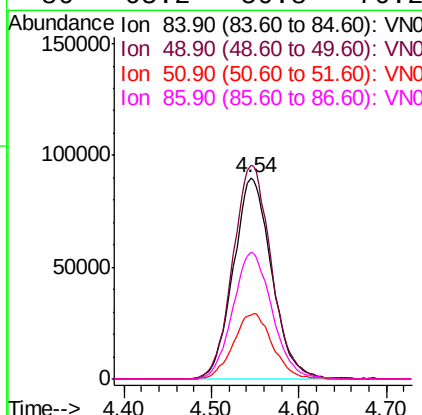
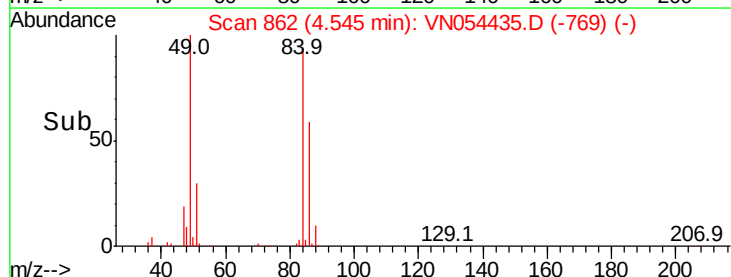
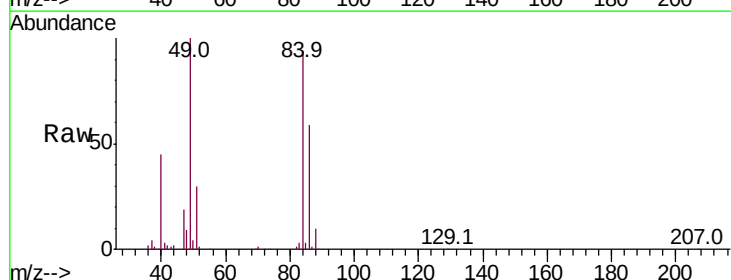
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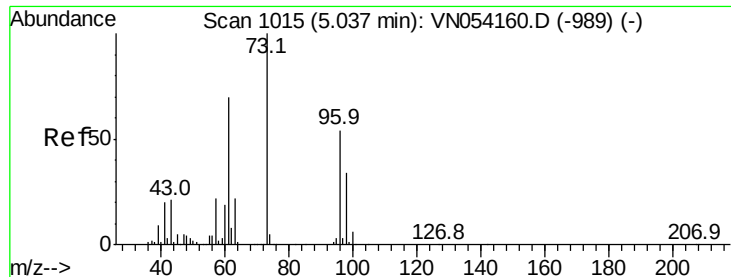
MMDadoda
3/20/2019 12:21:36 PM



#20
Methylene Chloride
Concen: 19.932 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Tgt Ion: 84 Resp: 274143
Ion Ratio Lower Upper
84 100
49 106.3 89.7 134.5
51 32.1 28.2 42.4
86 63.2 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 18.845 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

VN0319MBS01

Tot Ion: 96 Resp: 258408

Ion Ratio Lower Upper

96 100

61 127.8 102.8 154.2

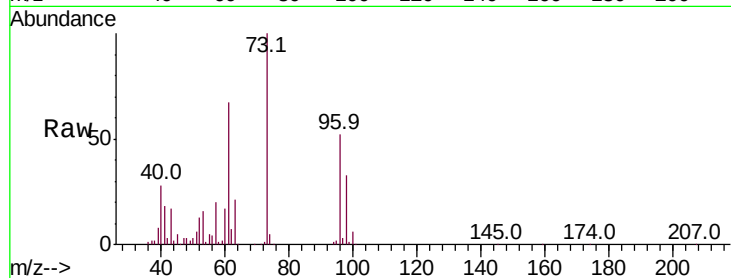
98 63.5 50.0 75.0

Manual Integrations

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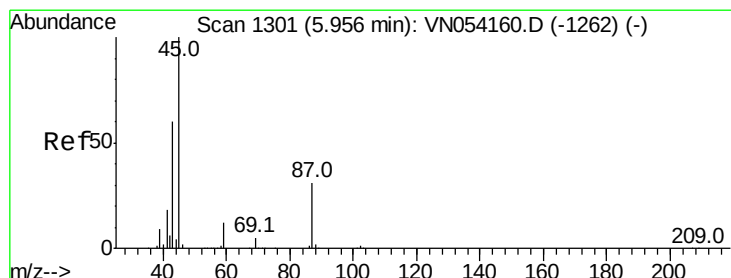
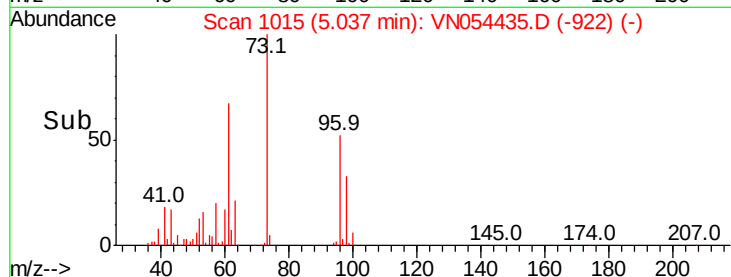
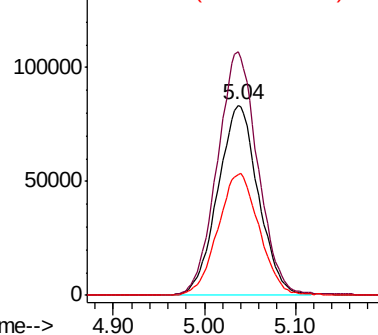
3/20/2019 12:21:36 PM



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 20.036 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Tgt Ion: 45 Resp: 734252

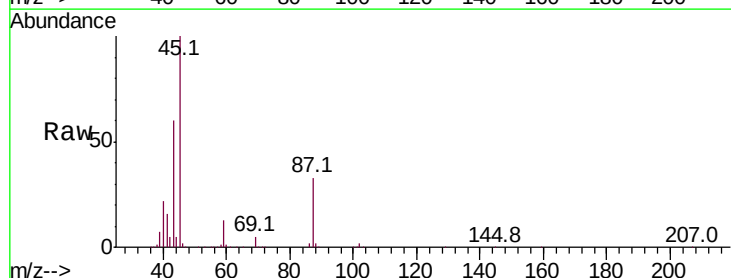
Ion Ratio Lower Upper

45 100

43 57.9 48.2 72.2

87 32.4 24.9 37.3

59 12.4 9.5 14.3

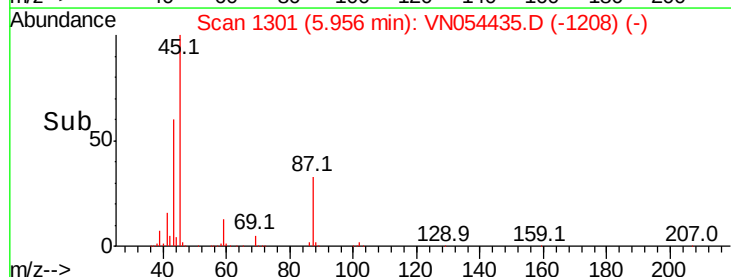
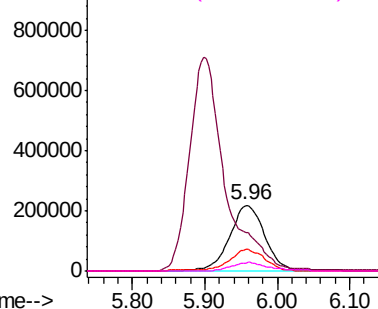


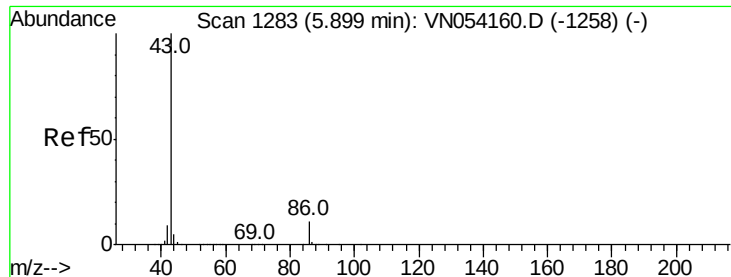
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 89.604 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Tot Ion: 43 Resp: 2421103

Ion Ratio Lower Upper

43 100

86 12.8 9.1 13.7

Instrument :

MSVOA_N

ClientSampleId :

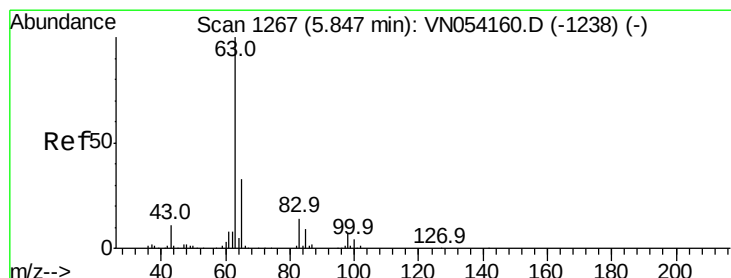
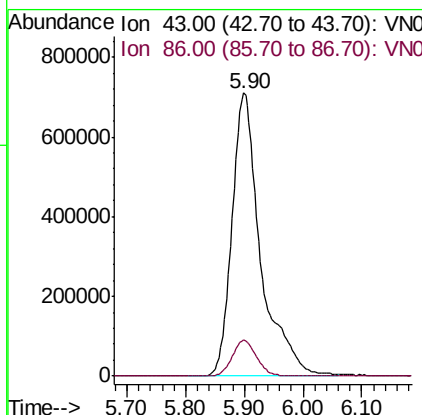
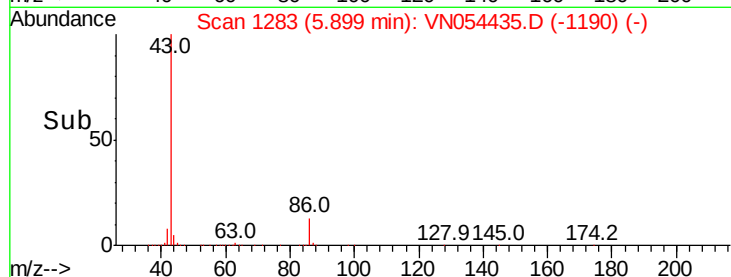
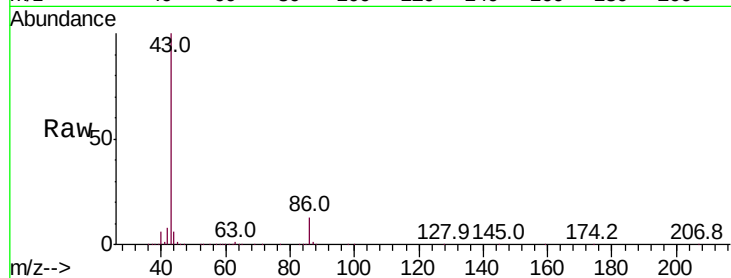
VN0319MBS01

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 19.898 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

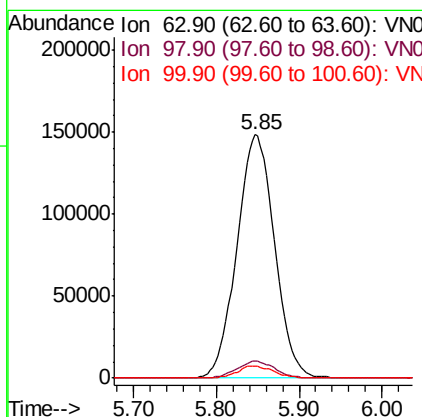
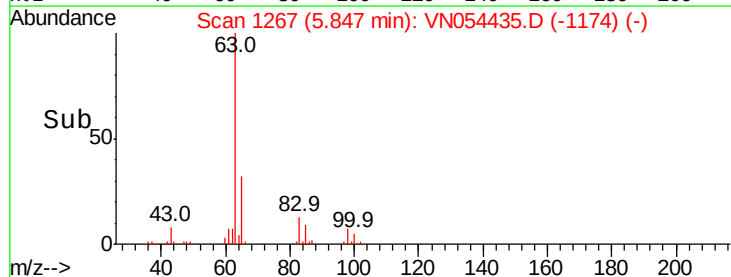
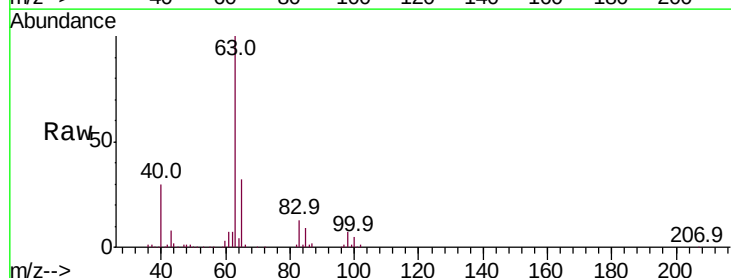
Tgt Ion: 63 Resp: 468203

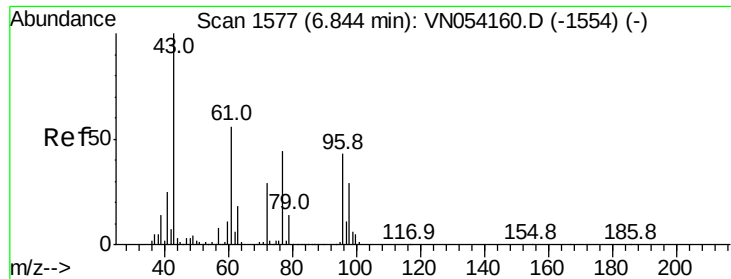
Ion Ratio Lower Upper

63 100

98 7.0 3.5 10.5

100 4.7 2.0 6.0





#25

2-Butanone

Concen: 98.438 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

VN0319MBS01

Tot Ion: 43 Resp: 483958

Ion Ratio Lower Upper

43 100

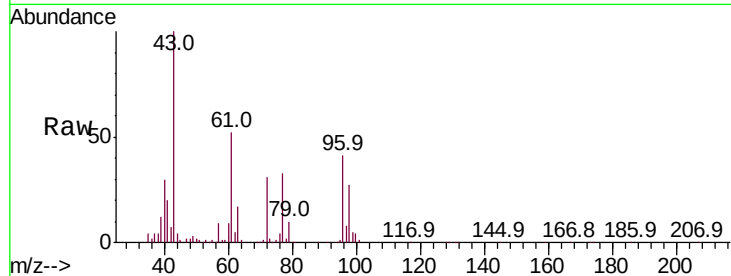
72 30.9 23.0 34.6

Manual Integrations

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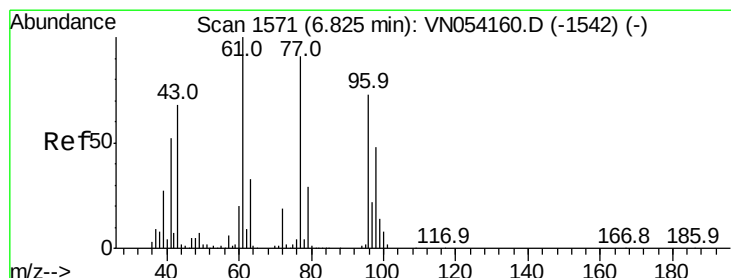
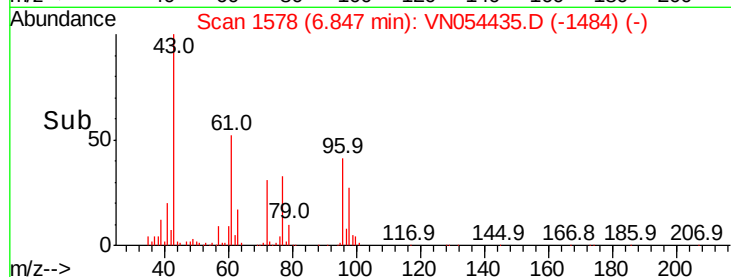
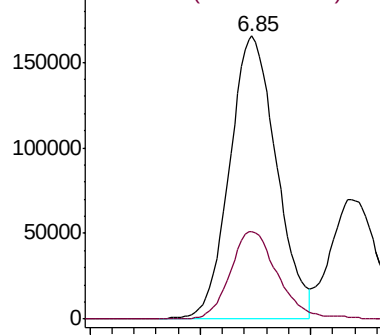
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 15.108 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN054435.D

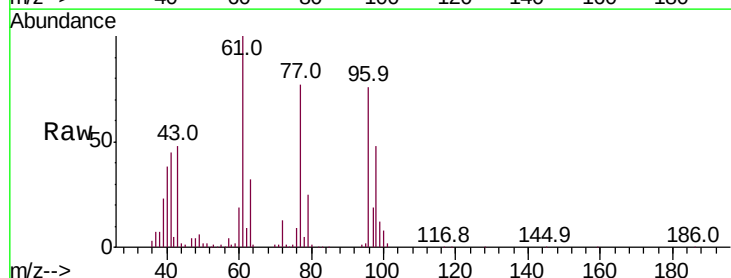
Acq: 19 Mar 2019 12:41

Tgt Ion: 77 Resp: 312628

Ion Ratio Lower Upper

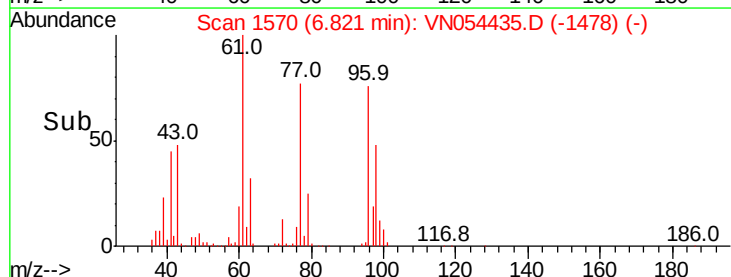
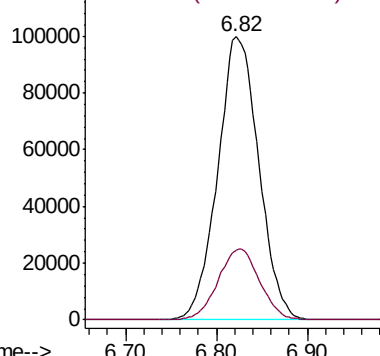
77 100

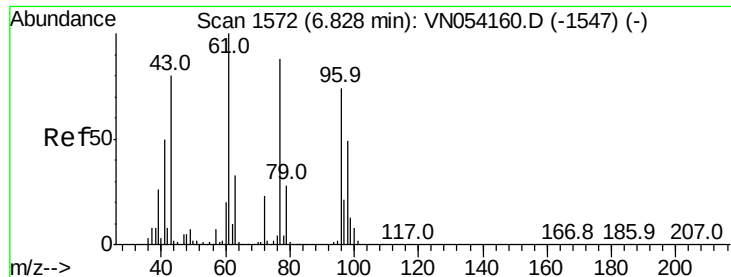
97 25.5 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





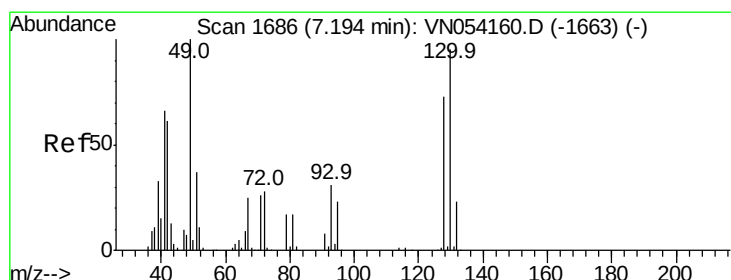
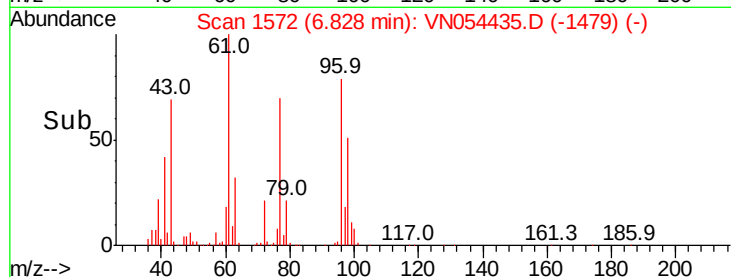
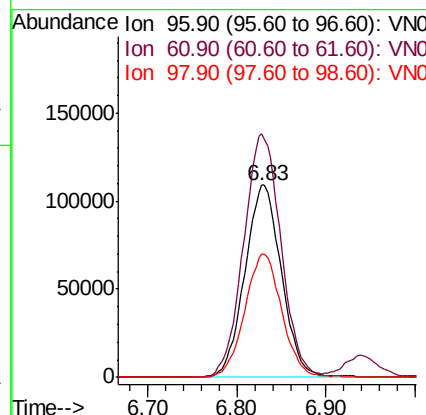
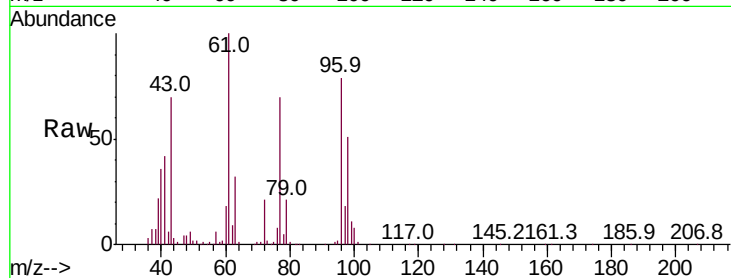
#27
 cis-1,2-Dichloroethene
 Concen: 20.337 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN054435.D
 Acq: 19 Mar 2019 12:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0319MBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	129.0	0.0	273.0	
98	64.7	0.0	130.6	

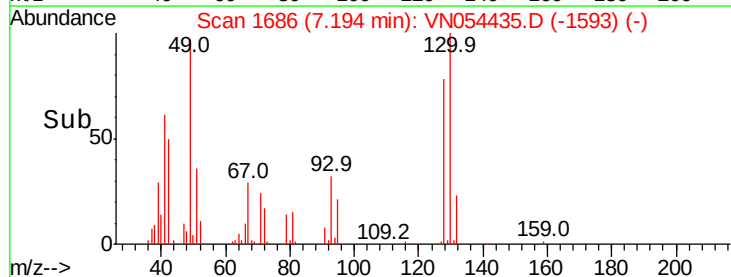
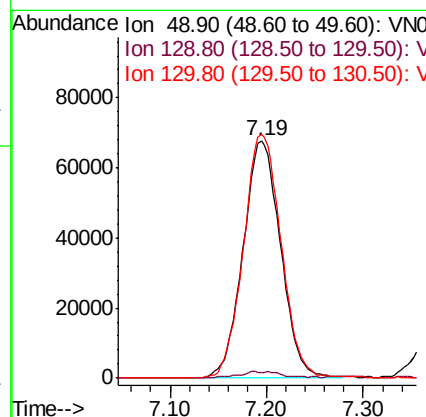
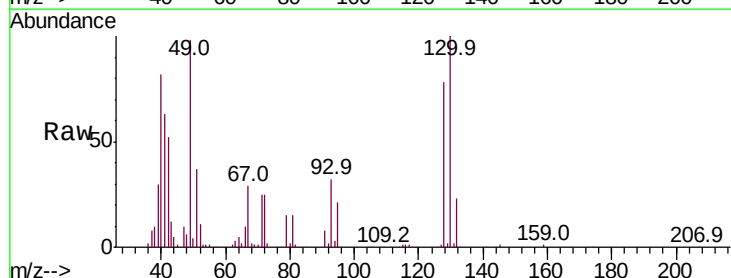
Manual Integrations
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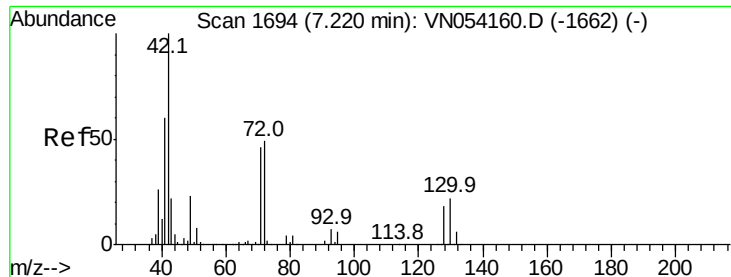
MMDadoda
 3/20/2019 12:21:36 PM



#28
 Bromochloromethane
 Concen: 19.024 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN054435.D
 Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.7	0.0	4.6	
130	102.8	76.7	115.1	





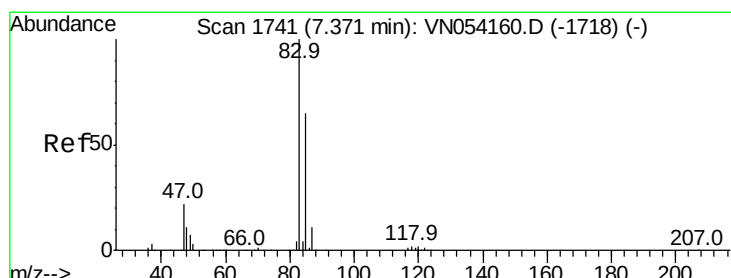
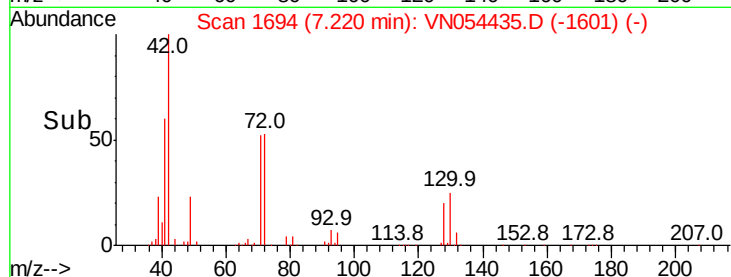
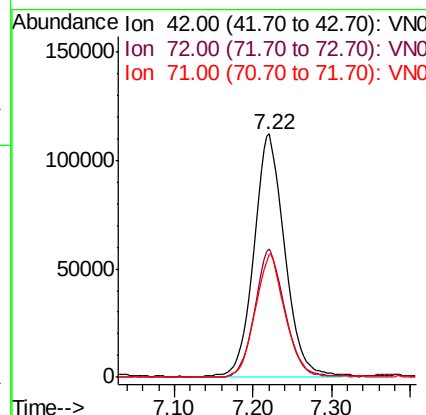
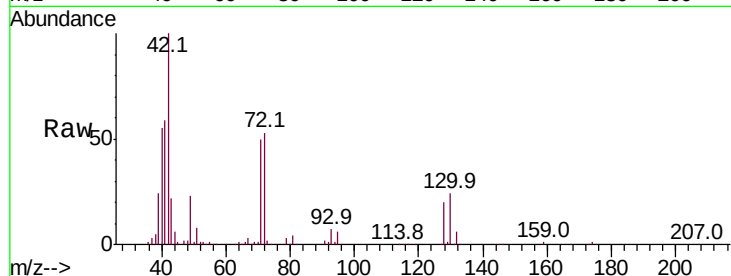
#29
Tetrahydrofuran
Concen: 98.009 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Instrument :
MSVOA_N
ClientSampleId :
VN0319MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	52.0	37.8	56.6
71	49.6	36.2	54.2

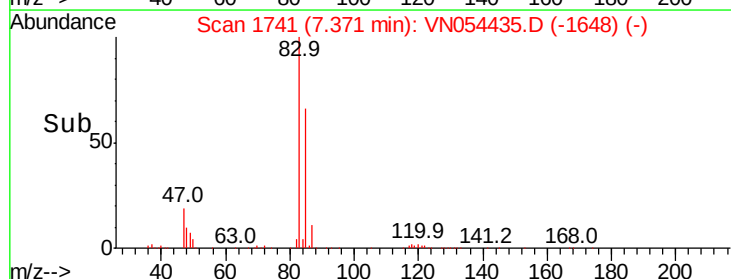
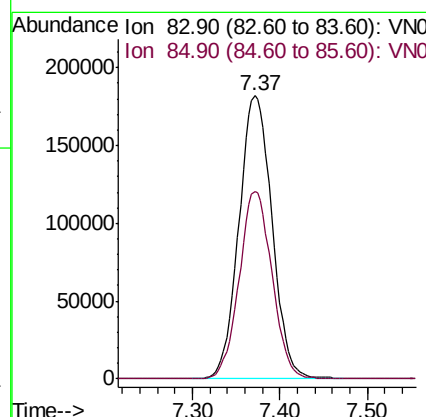
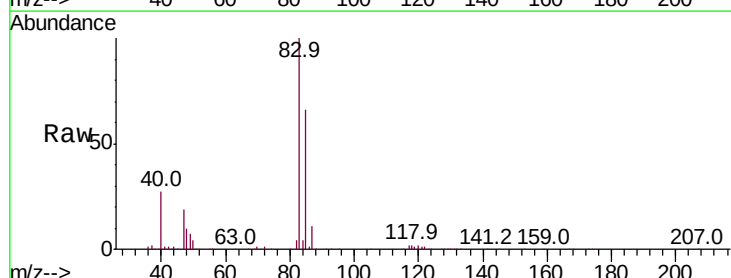
Manual Integrations
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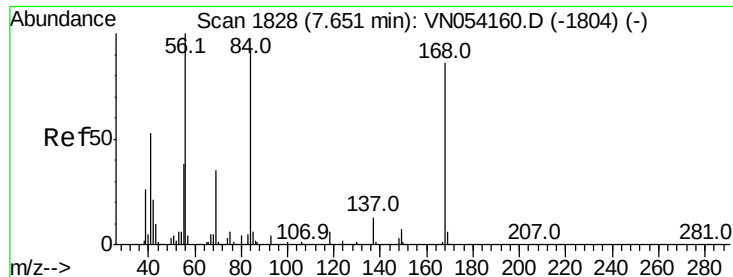
MMDadoda
3/20/2019 12:21:36 PM



#30
Chloroform
Concen: 19.486 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	52.2	78.4





#31

Cyclohexane

Concen: 18.187 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

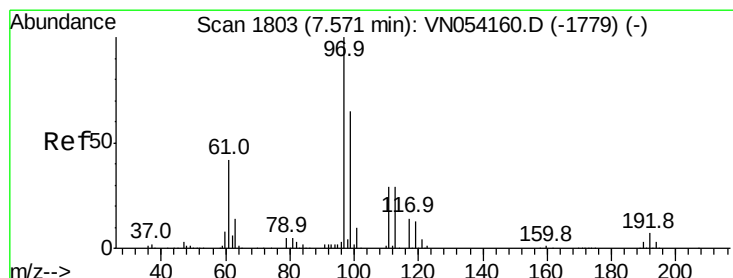
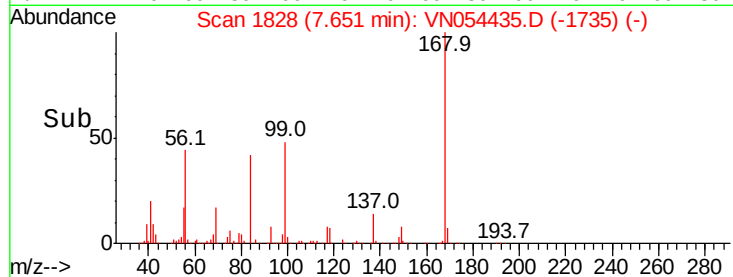
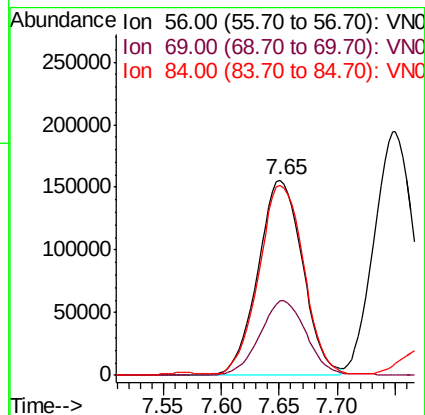
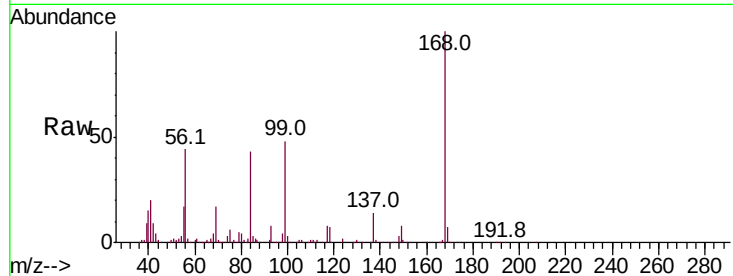
ClientSampled :

VN0319MBS01

Tot Ion:	56	Resp:	417287
Ion Ratio	Lower	Upper	
56	100		
69	38.1	27.8	41.6
84	96.2	74.6	111.8

Manual Integrations
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3/20/2019 12:21:36 PM



#32

1,1,1-Trichloroethane

Concen: 17.675 ug/l

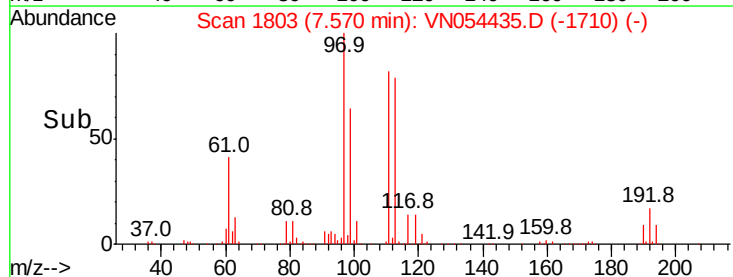
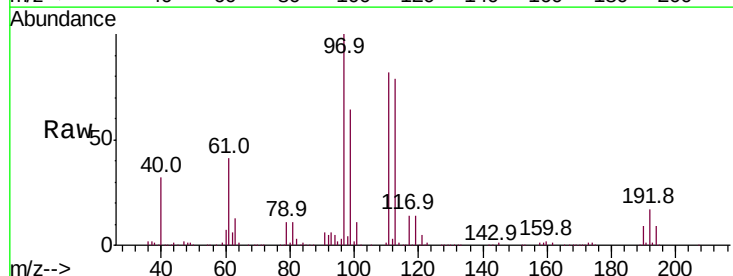
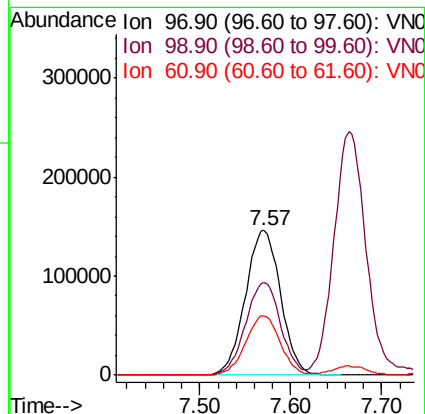
RT: 7.57 min Scan# 1803

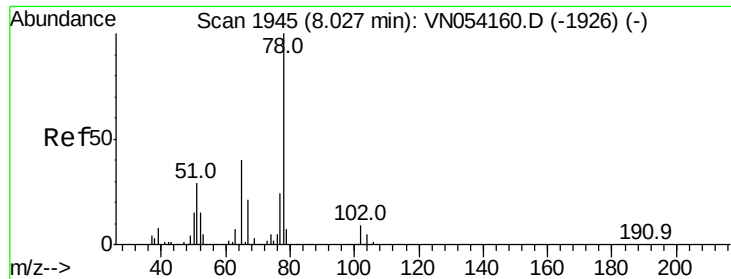
Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Tgt Ion:	97	Resp:	391952
Ion Ratio	Lower	Upper	
97	100		
99	63.8	51.5	77.3
61	40.2	33.6	50.4





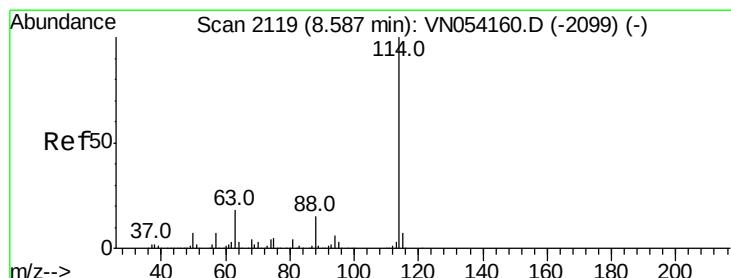
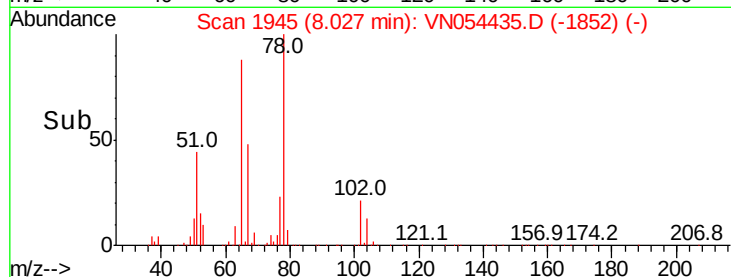
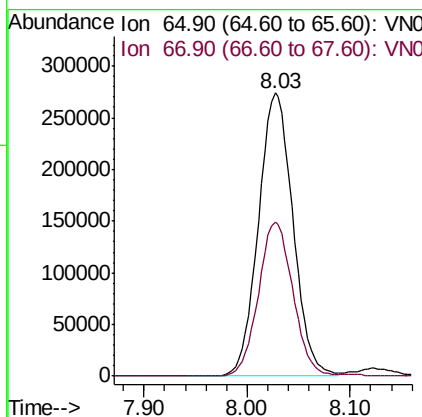
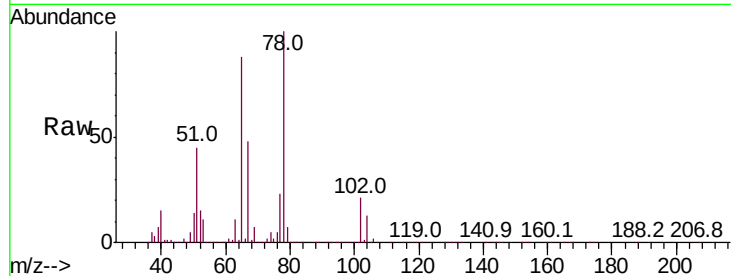
#33
 1,2-Dichloroethane-d4
 Concen: 43.493 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054435.D
 Acq: 19 Mar 2019 12:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0319MBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.1	0.0	104.6

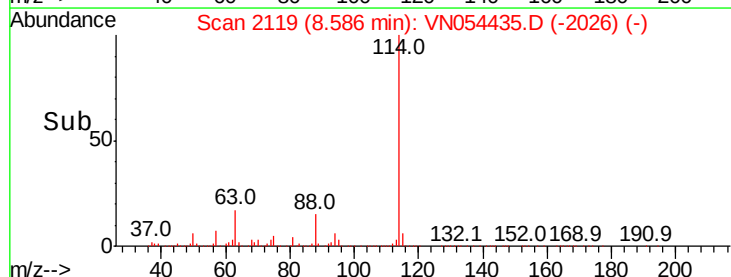
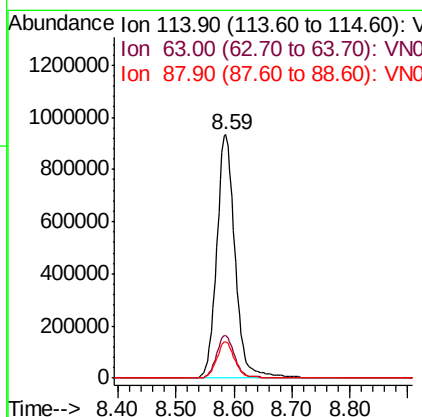
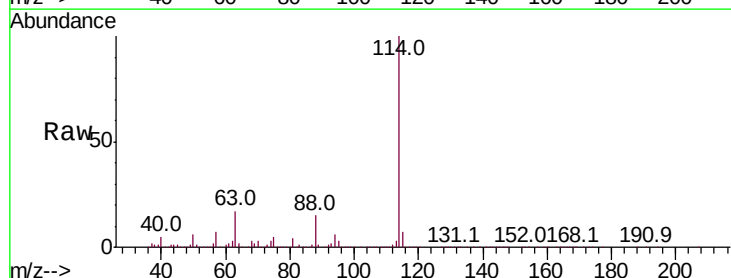
Manual Integrations
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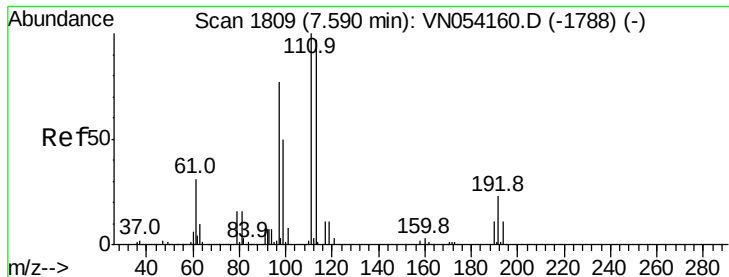
MMDadoda
 3/20/2019 12:21:36 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054435.D
 Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	35.2
88	15.0	0.0	30.2





#35

Dibromofluoromethane

Concen: 48.047 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

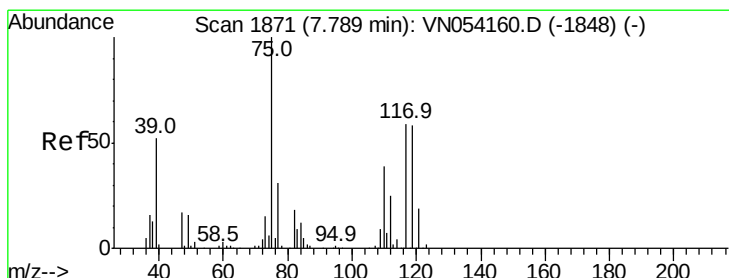
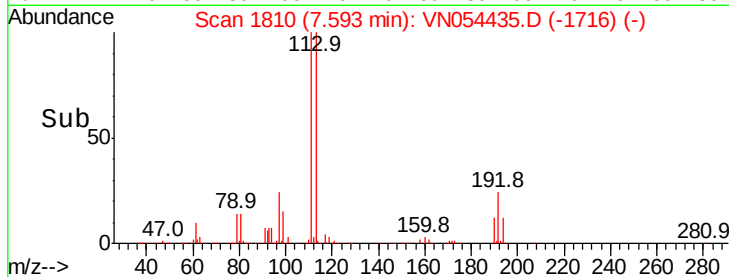
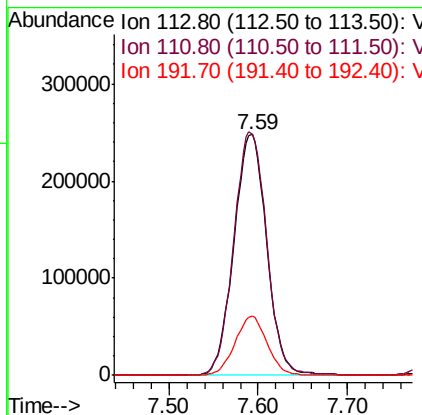
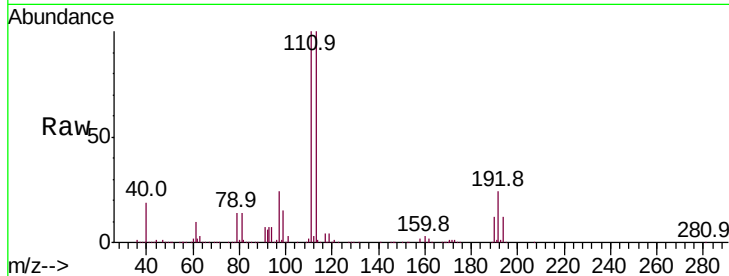
ClientSampleId :

VN0319MBS01

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.2	123.4
192	24.0	19.2	28.8

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3/20/2019 12:21:36 PM



#36

1,1-Dichloropropene

Concen: 18.603 ug/l

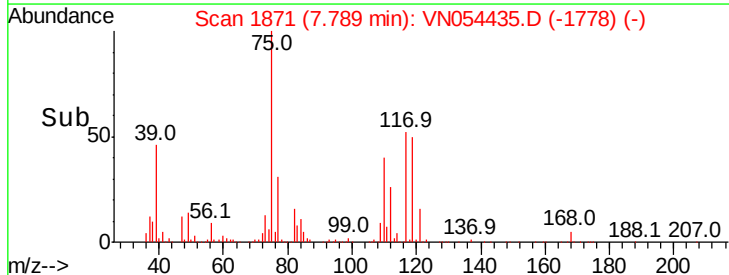
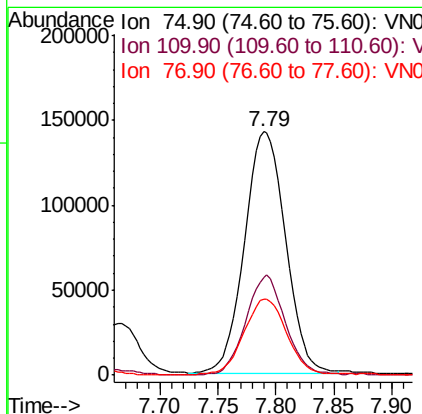
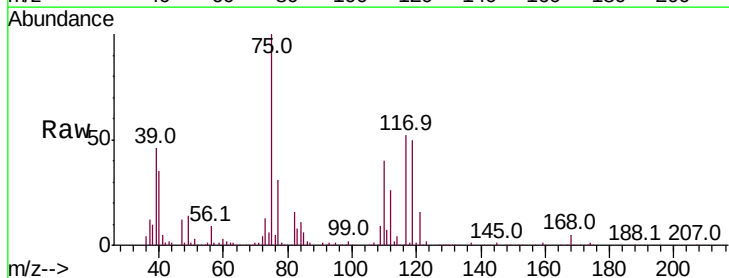
RT: 7.79 min Scan# 1871

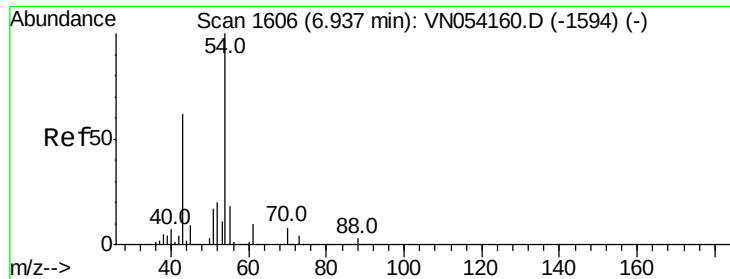
Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	40.0	19.1	57.5
77	32.3	25.0	37.4





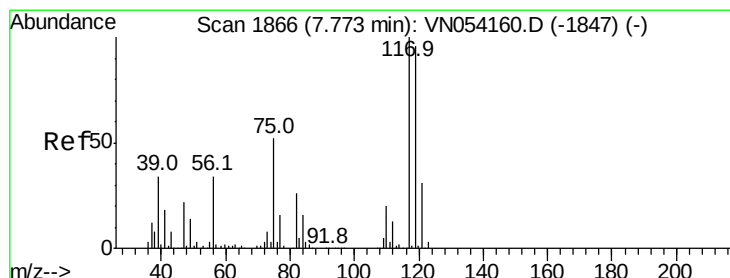
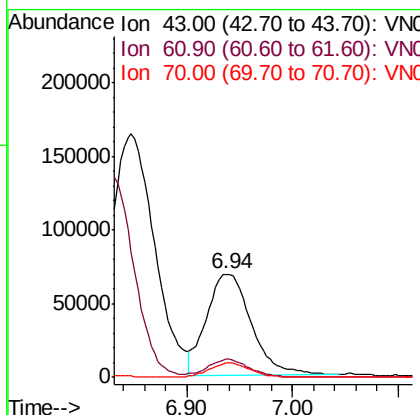
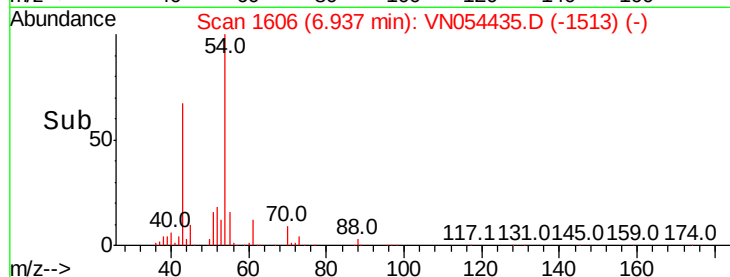
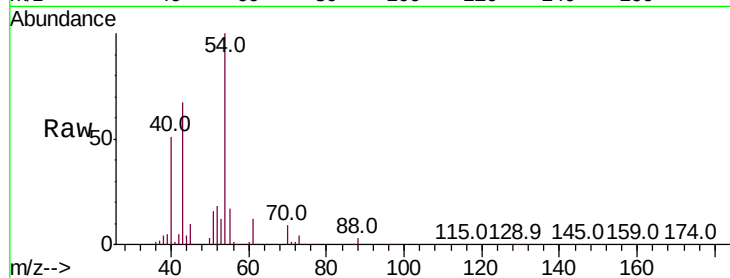
#37
Ethyl Acetate
Concen: 18.682 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Instrument :
MSVOA_N
ClientSampled :
VN0319MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.6	11.8	17.6
70	13.0	8.4	12.6

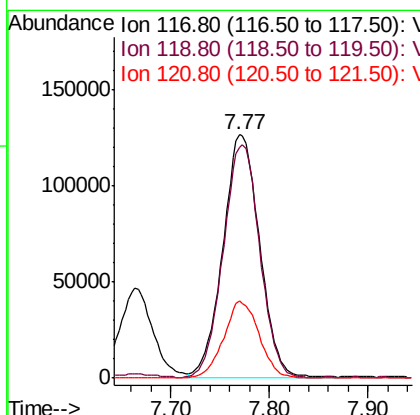
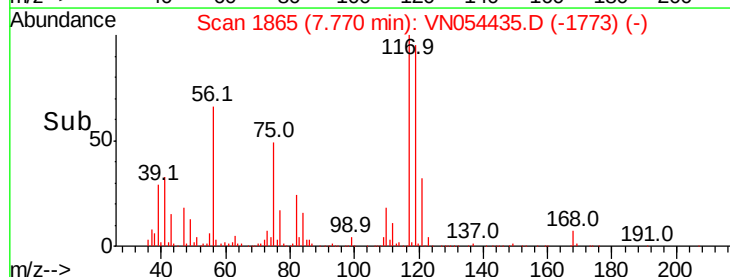
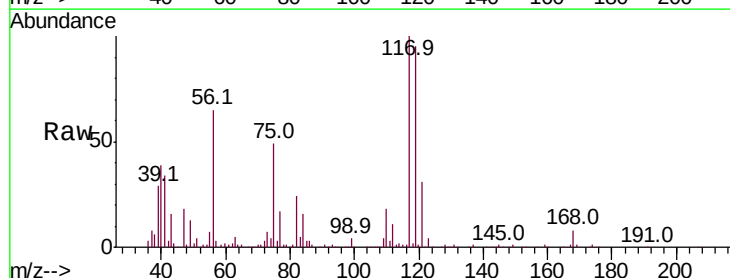
Manual Integrations
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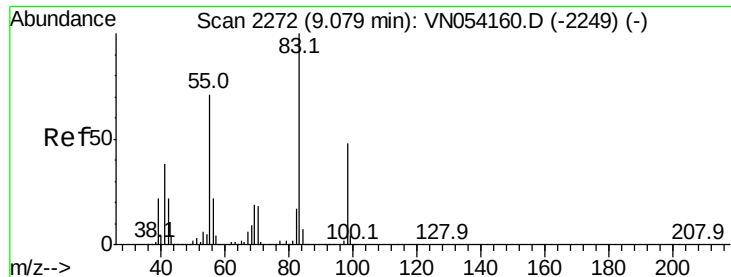
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3/20/2019 12:21:36 PM



#38
Carbon Tetrachloride
Concen: 16.546 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.0	76.3	114.5
121	31.6	24.6	36.8





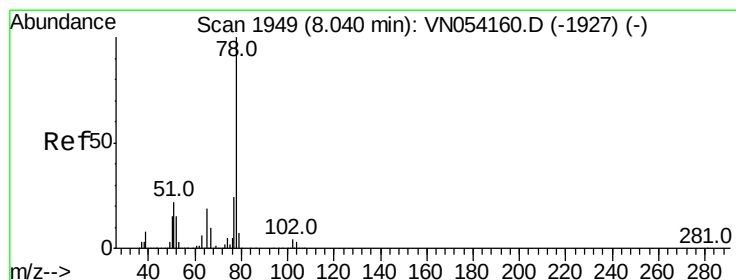
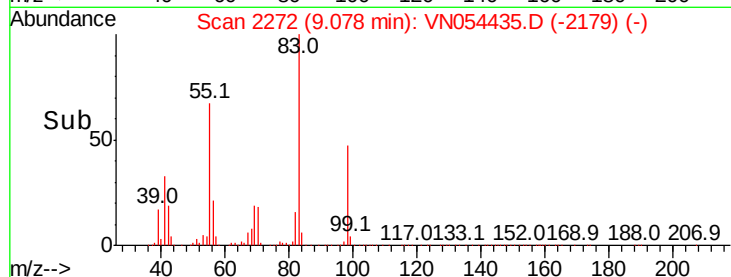
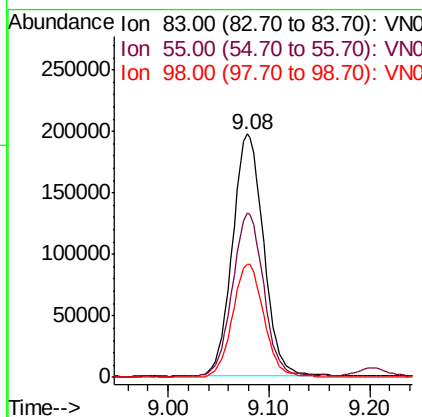
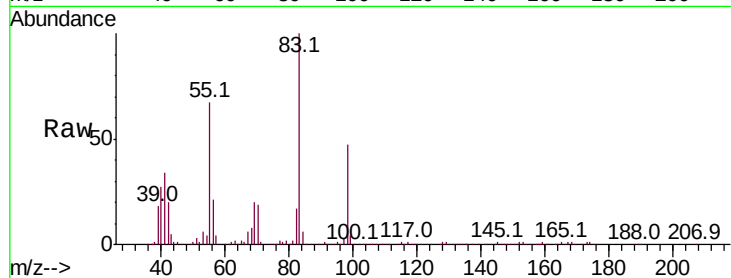
#39
Methylvlcyclohexane
Concen: 18.294 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Instrument :
MSVOA_N
ClientSampleId :
VN0319MBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	67.1	56.6	84.8
98	46.9	38.4	57.6

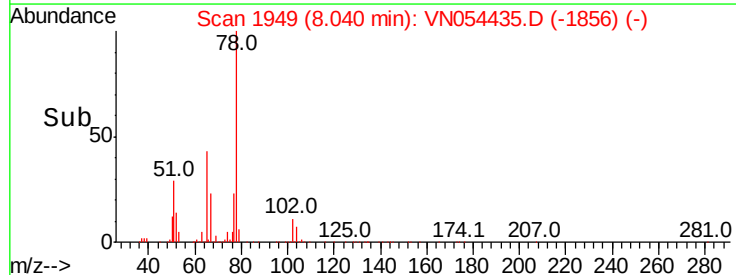
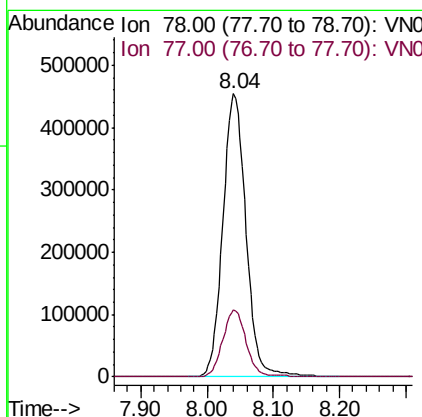
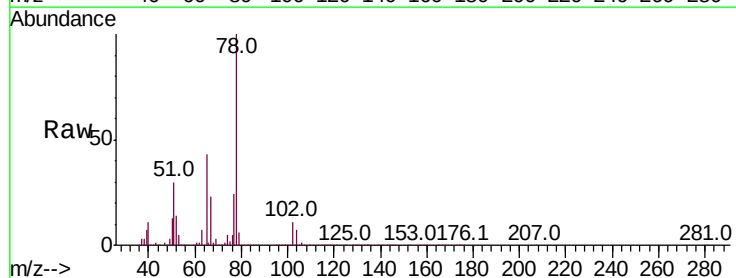
Manual Integrations
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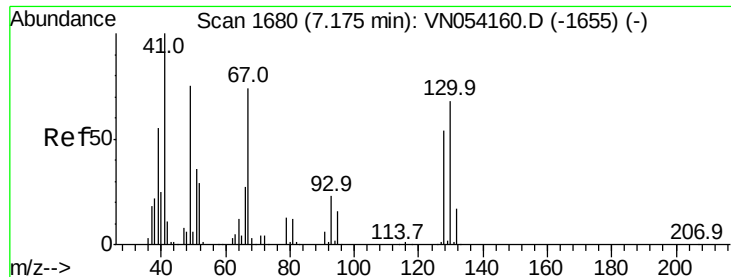
MMDadoda
3/20/2019 12:21:36 PM



#40
Benzene
Concen: 20.501 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.1	28.7





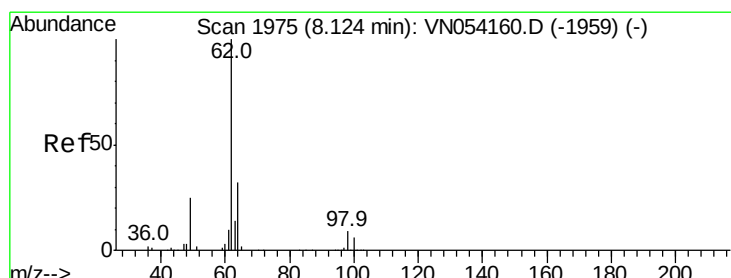
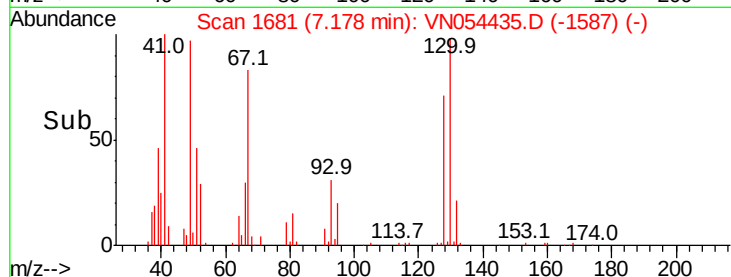
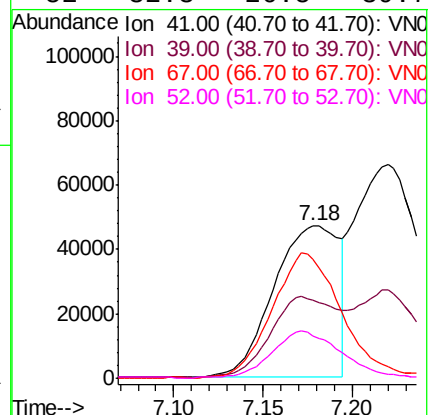
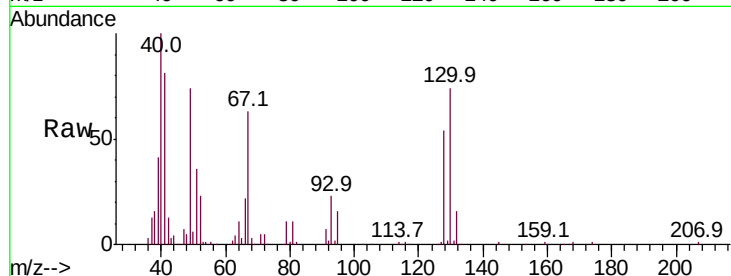
#41
Methacrylonitrile
Concen: 19.447 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Instrument :
MSVOA_N
ClientSampled :
VN0319MBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	56.2	46.8	70.2
67	87.4	67.0	100.4
52	32.3	26.5	39.7

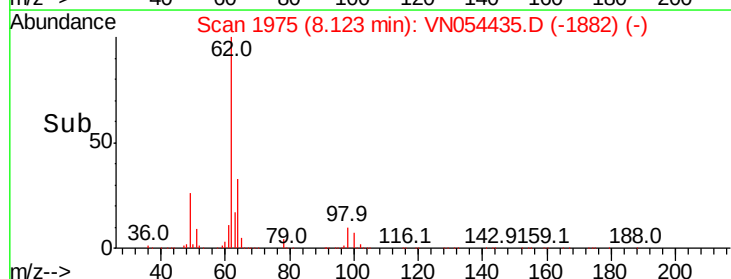
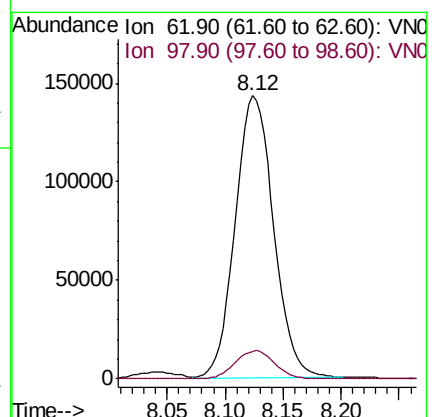
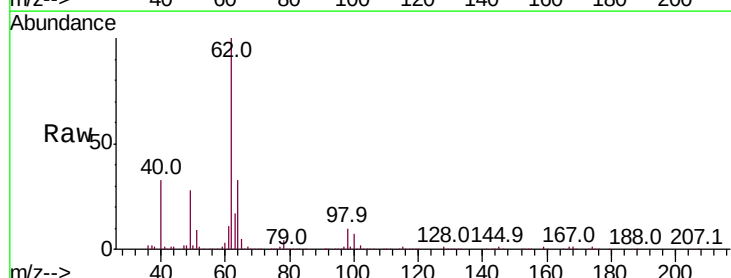
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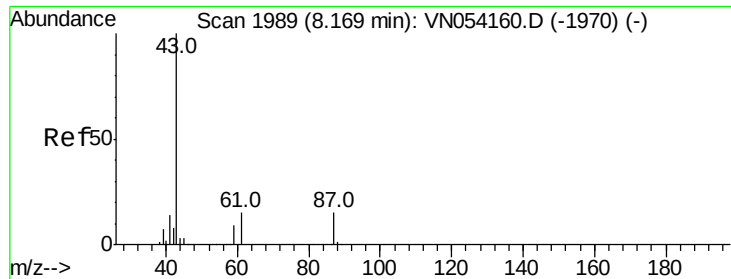
MMDadoda
3/20/2019 12:21:36 PM



#42
1,2-Dichloroethane
Concen: 18.129 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	18.4





#43

Isopropyl Acetate

Concen: 17.738 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

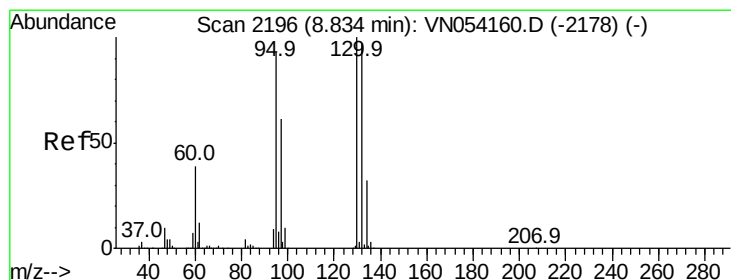
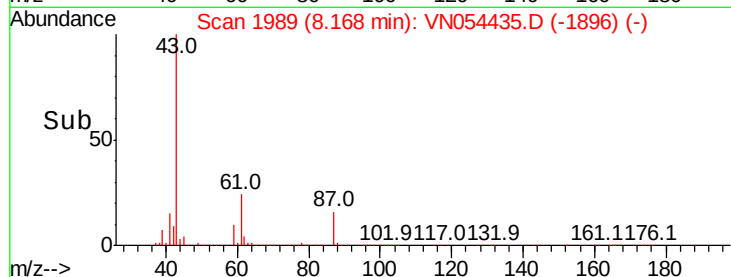
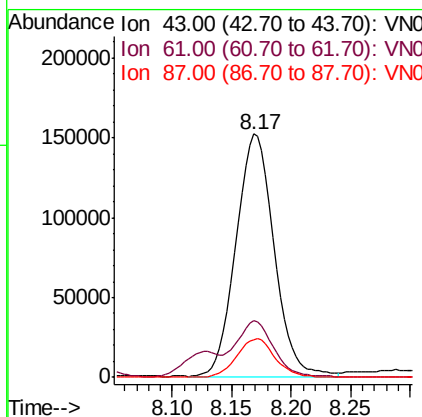
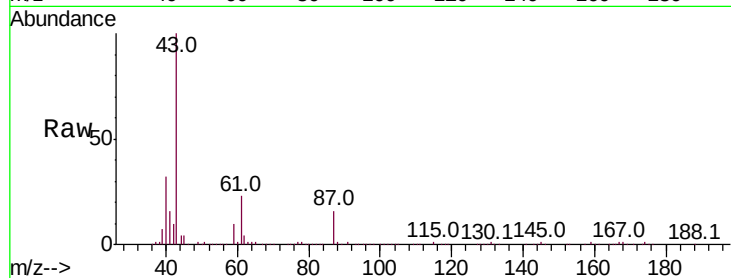
ClientSampleId :

VN0319MBS01

Tot Ion	43	Resp	336797
Ion Ratio	100	Lower	Upper
61	22.4	15.8	23.8
87	16.1	12.0	18.0

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3/20/2019 12:21:36 PM



#44

Trichloroethene

Concen: 19.793 ug/l

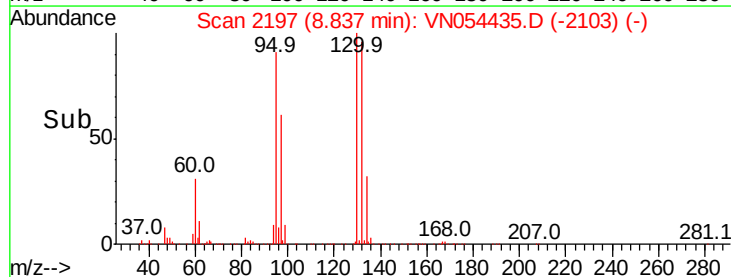
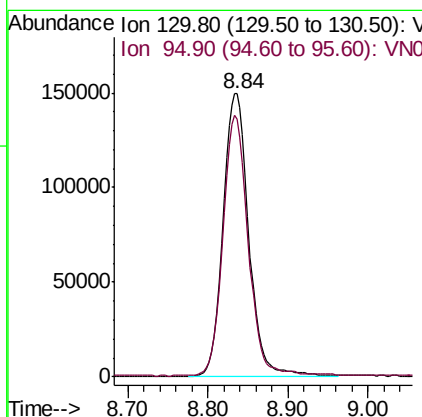
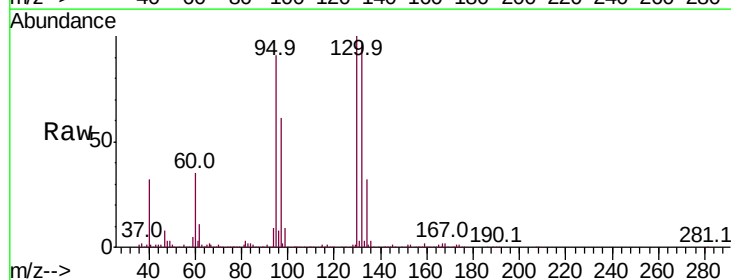
RT: 8.84 min Scan# 2197

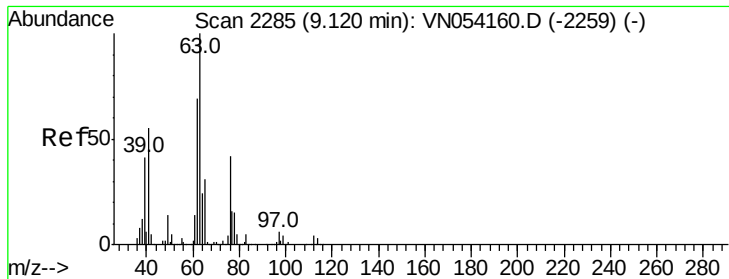
Delta R.T. 0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Tgt Ion	130	Resp	331235
Ion Ratio	100	Lower	Upper
95	90.5	0.0	185.2





#45

1,2-Dichloropropane

Concen: 21.094 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

VN0319MBS01

Tot Ion: 63 Resp: 282173

Ion Ratio Lower Upper

63 100

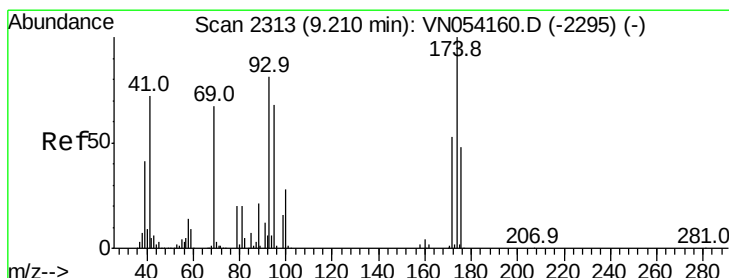
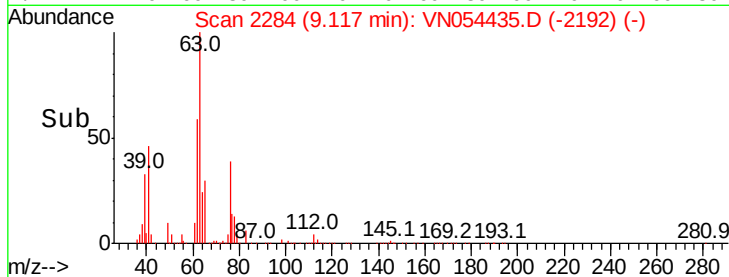
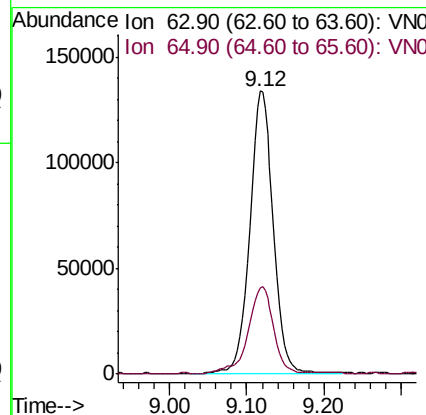
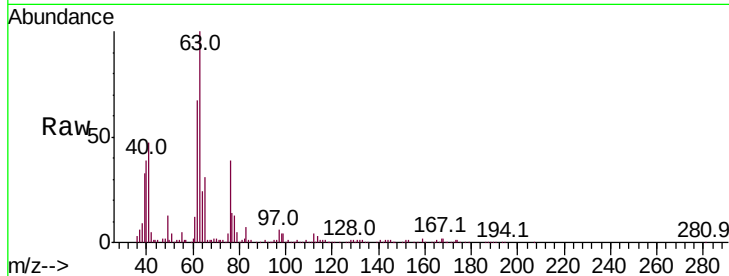
65 30.4 25.0 37.6

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3/20/2019 12:21:36 PM



#46

Dibromomethane

Concen: 19.089 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

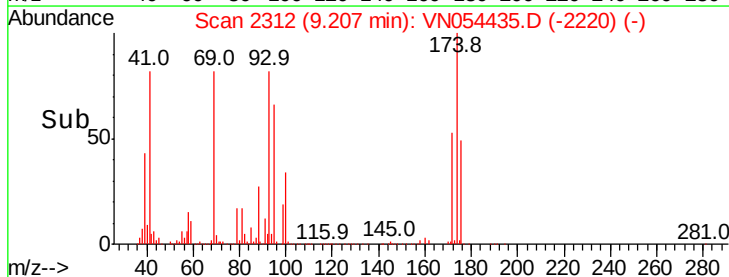
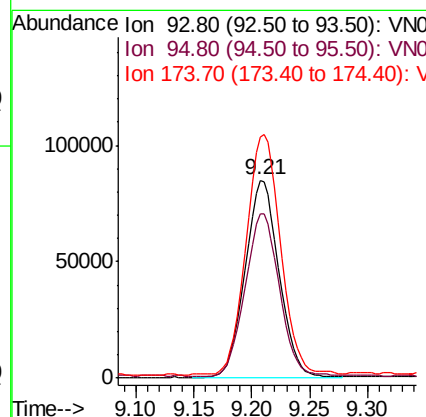
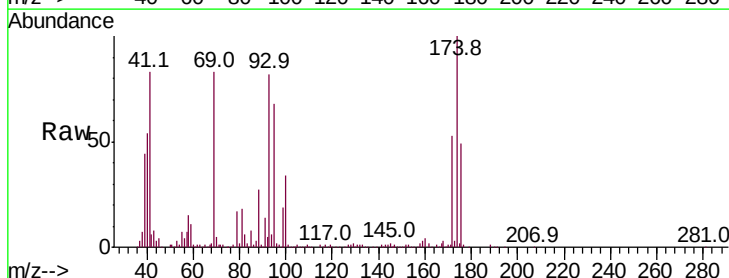
Tgt Ion: 93 Resp: 172527

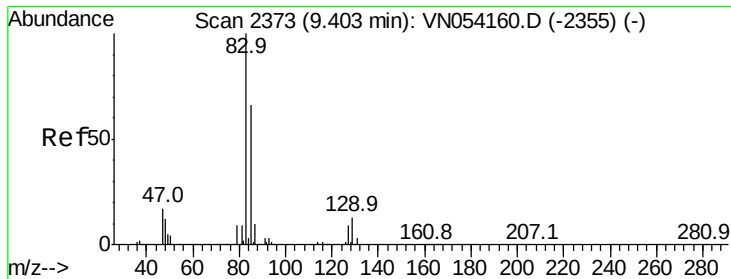
Ion Ratio Lower Upper

93 100

95 83.7 66.7 100.1

174 123.0 98.5 147.7





#47

Bromodichloromethane

Concen: 18.133 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

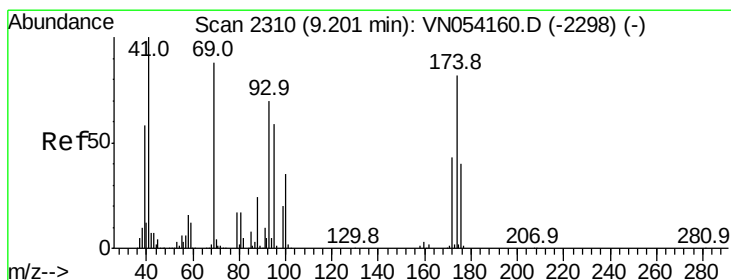
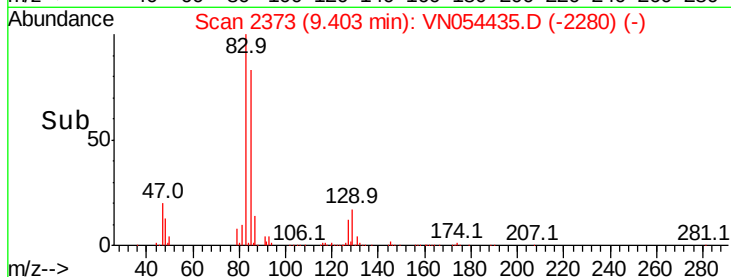
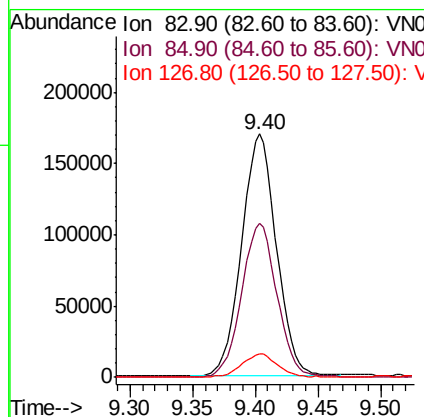
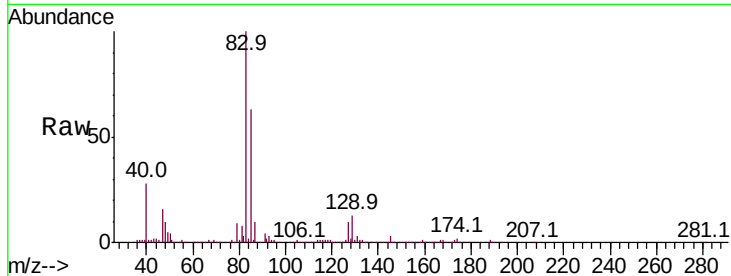
ClientSampled :

VN0319MBS01

Tot Ion:	83	Resp:	328552
Ion Ratio	Lower	Upper	
83	100		
85	63.2	52.8	79.2
127	9.5	7.4	11.2

Manual Integrations
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3/20/2019 12:21:36 PM



#48

Methyl methacrylate

Concen: 18.902 ug/l

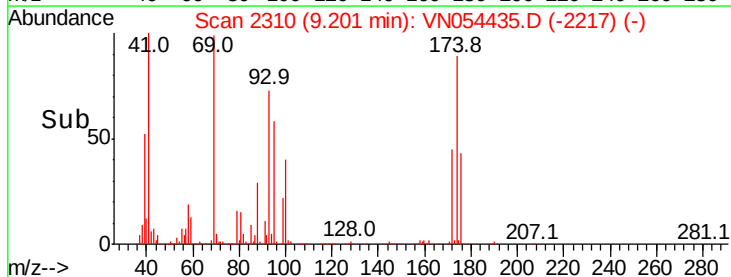
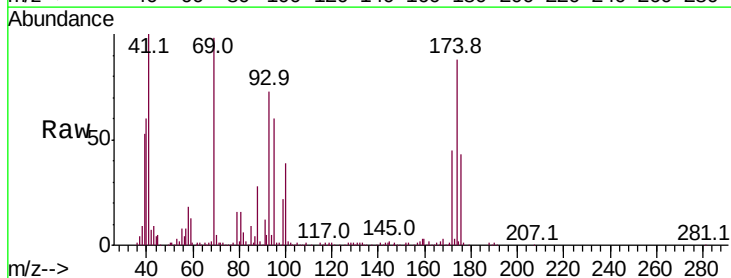
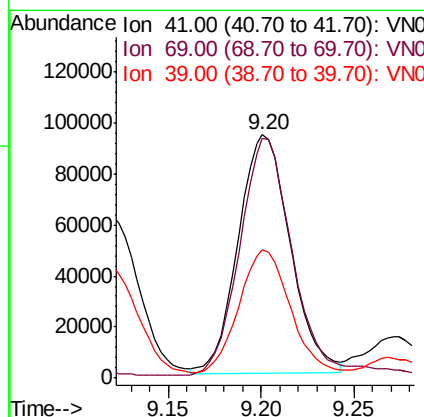
RT: 9.20 min Scan# 2310

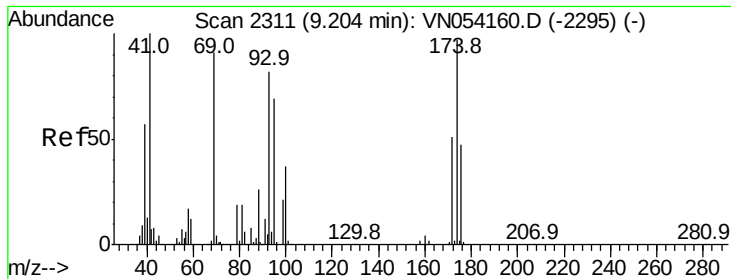
Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Tgt Ion:	41	Resp:	182127
Ion Ratio	Lower	Upper	
41	100		
69	102.4	72.6	108.8
39	53.4	47.5	71.3





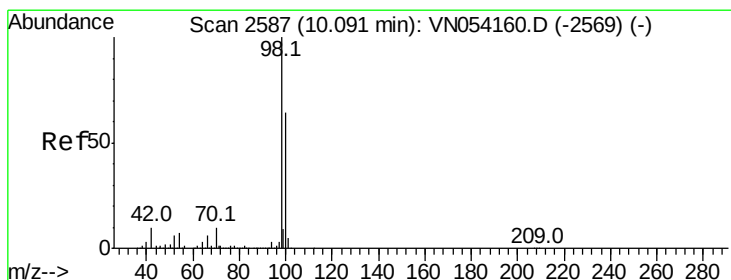
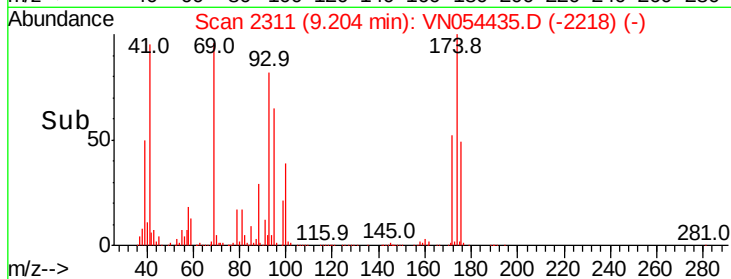
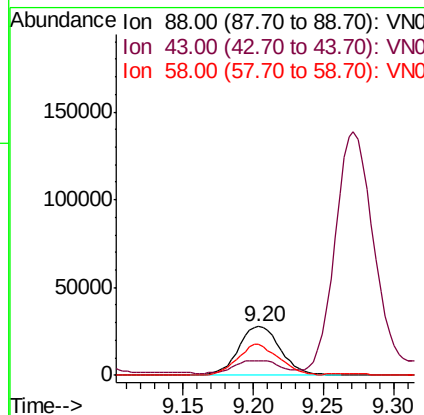
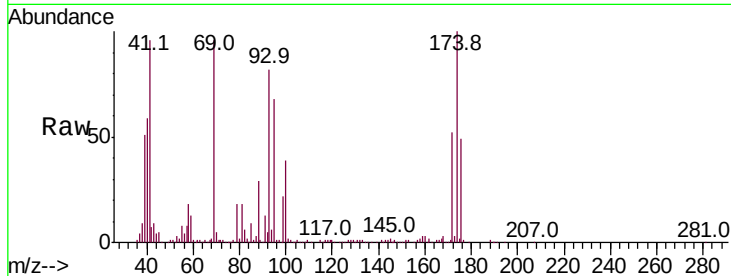
#49
1,4-Dioxane
Concen: 426.289 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Instrument :
MSVOA_N
ClientSampleId :
VN0319MBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	26.8	24.1	36.1
58	63.2	50.8	76.2

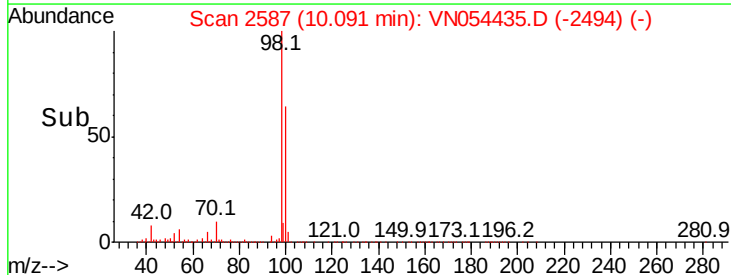
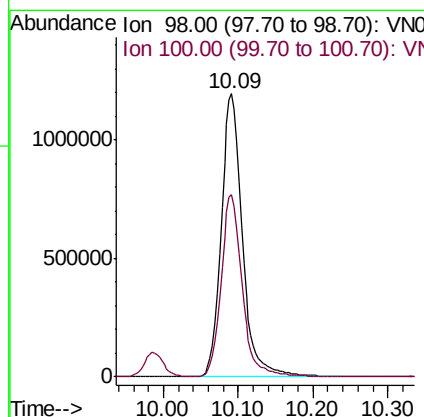
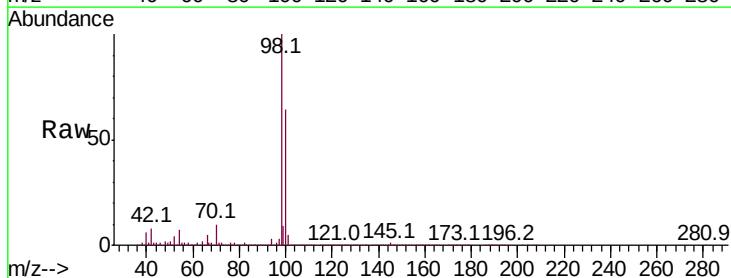
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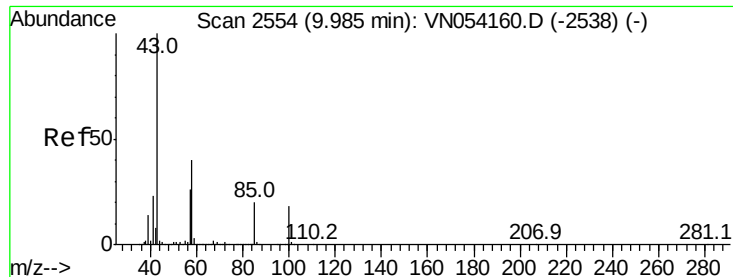
MMDadoda
3/20/2019 12:21:36 PM



#50
Toluene-d8
Concen: 48.016 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 100.952 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampled :

VN0319MBS01

Tot Ion: 43 Resp: 1014356

Ion Ratio Lower Upper

43 100

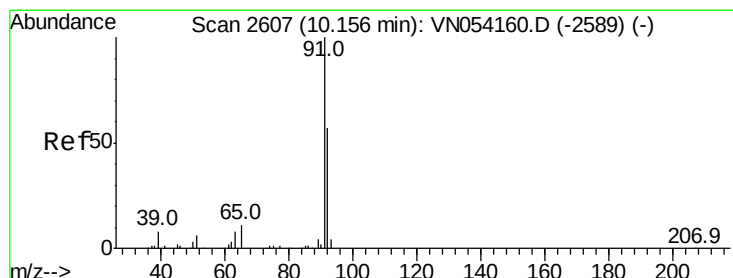
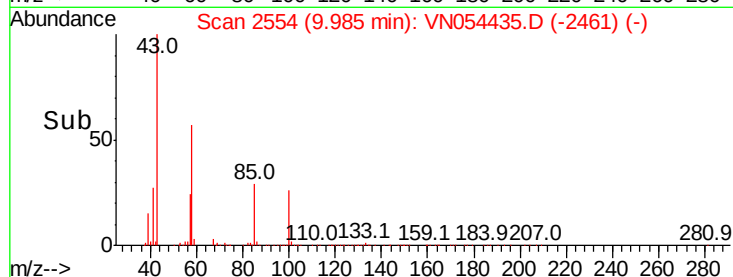
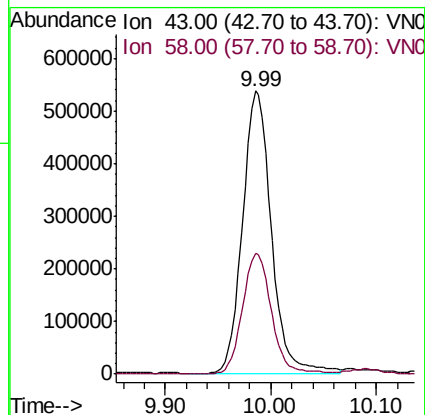
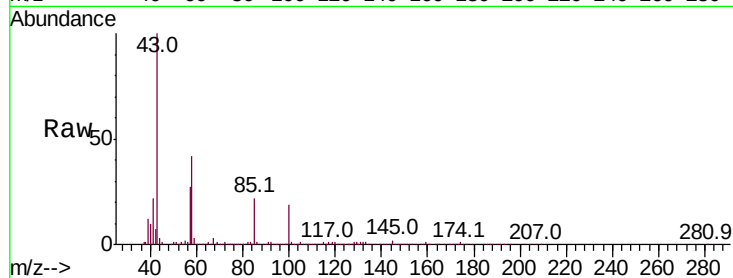
58 43.4 31.8 47.6

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3/20/2019 12:21:36 PM



#52

Toluene

Concen: 20.016 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054435.D

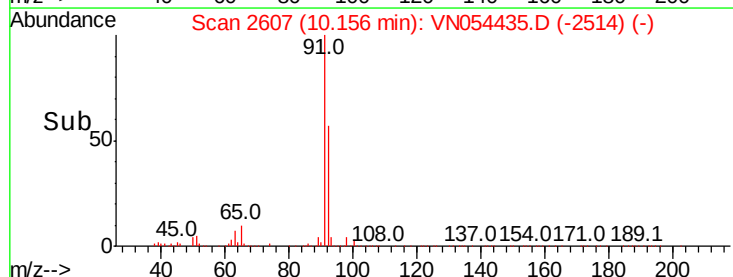
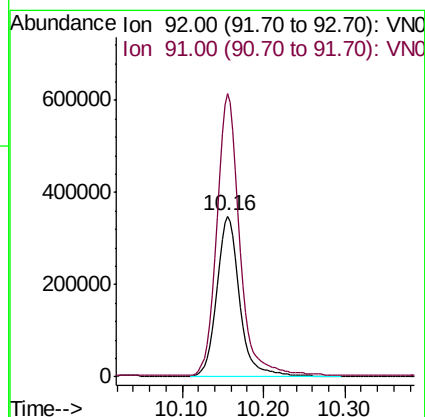
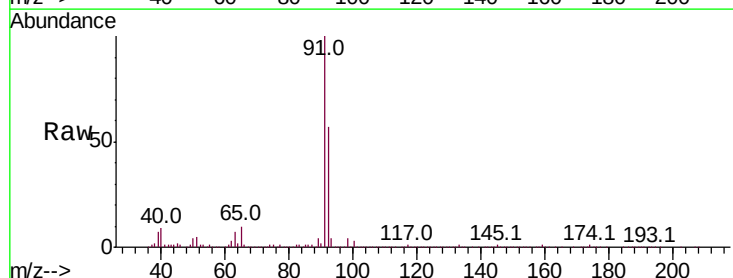
Acq: 19 Mar 2019 12:41

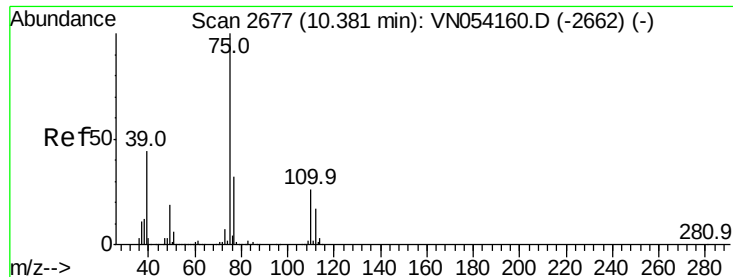
Tgt Ion: 92 Resp: 683709

Ion Ratio Lower Upper

92 100

91 174.7 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 15.628 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054435.D

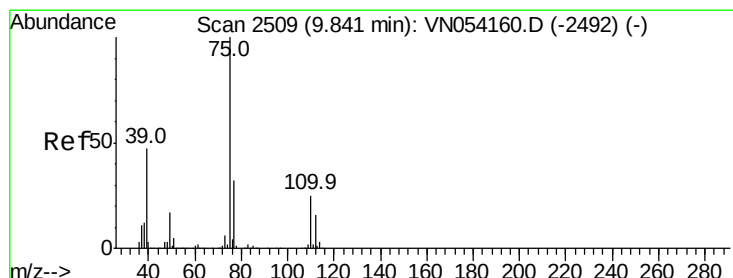
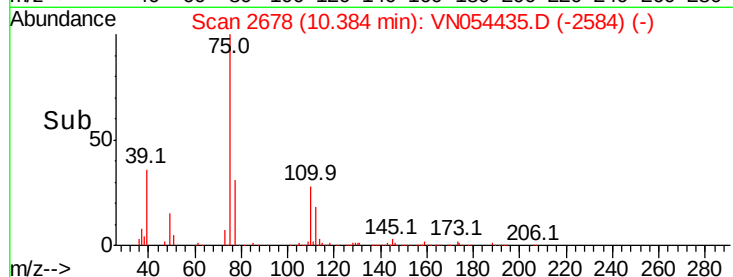
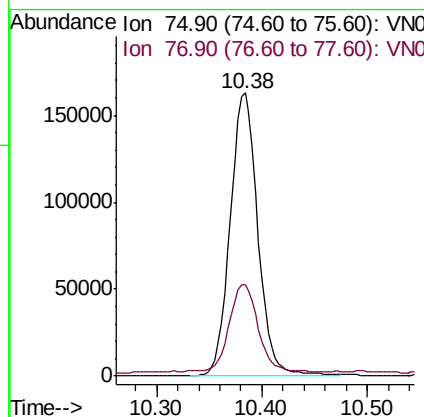
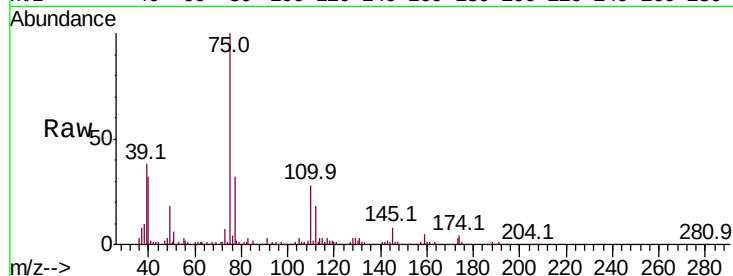
Acq: 19 Mar 2019 12:41

Instrument :
MSVOA_N
ClientSampleId :
VN0319MBS01

Tot Ion	Ratio	Resp	Lower	Upper
75	100	294401		
77	30.6	25.8	38.8	

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3/20/2019 12:21:36 PM



#54

cis-1,3-Dichloropropene

Concen: 18.052 ug/l

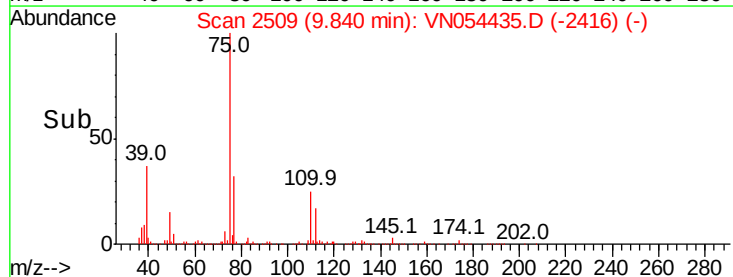
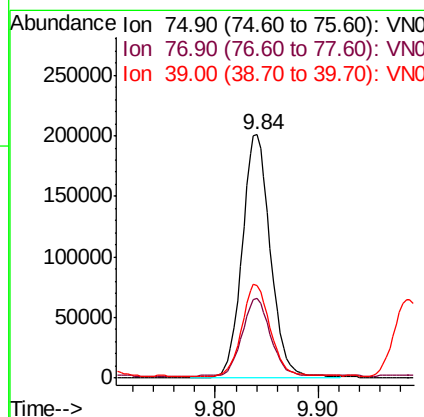
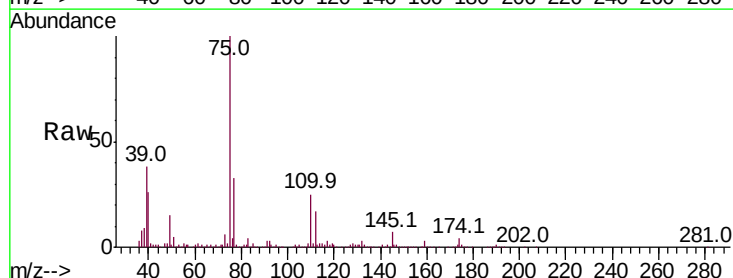
RT: 9.84 min Scan# 2509

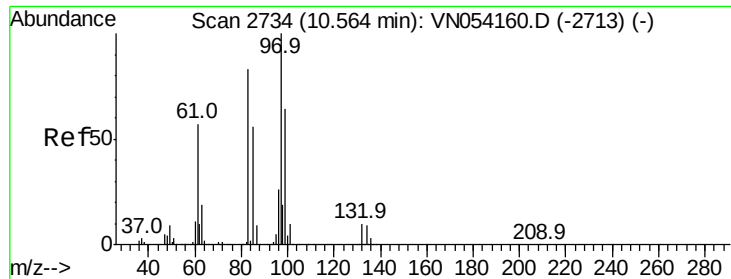
Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	381151		
77	31.8	25.4	38.0	
39	37.3	37.2	55.8	





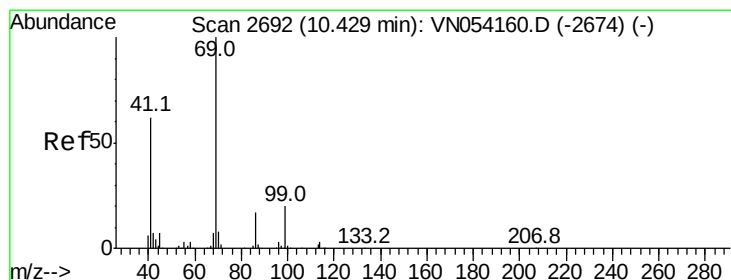
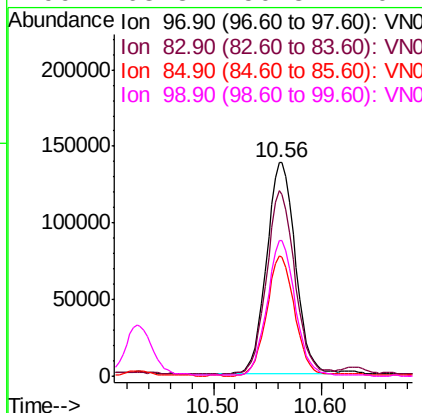
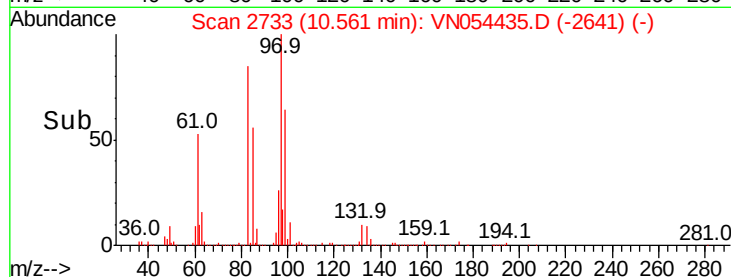
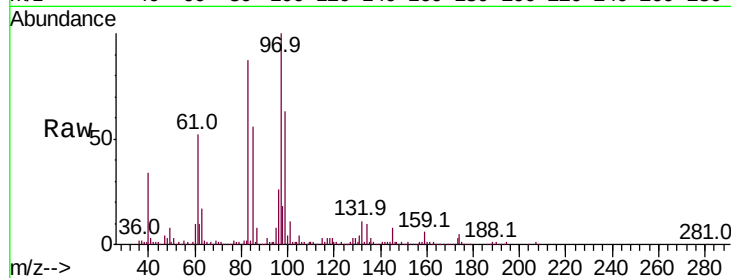
#55
 1,1,2-Trichloroethane
 Concen: 20.602 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN054435.D
 Acq: 19 Mar 2019 12:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0319MBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.6	66.6	100.0
85	56.4	44.4	66.6
99	63.3	50.8	76.2

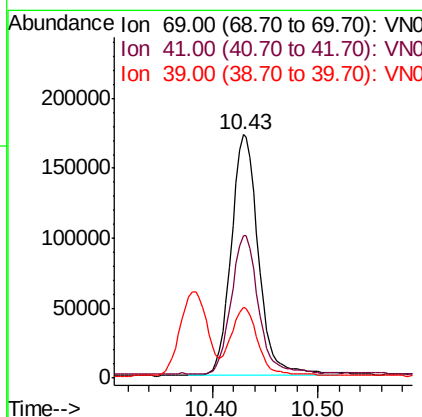
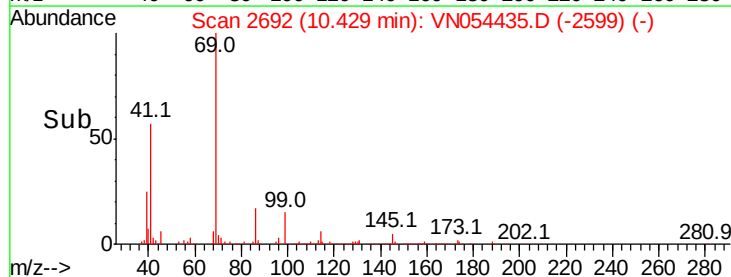
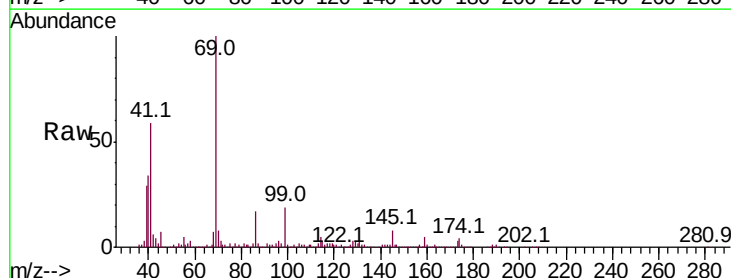
Manual Integrations
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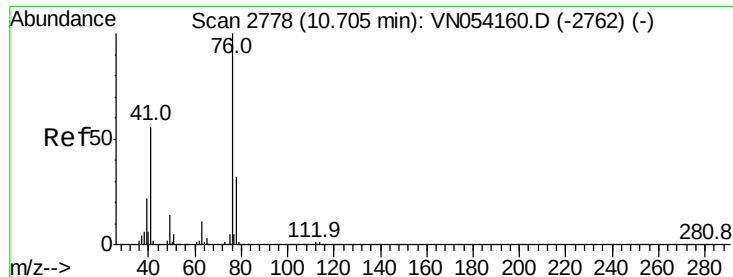
MMDadoda
 3/20/2019 12:21:36 PM



#56
 Ethyl methacrylate
 Concen: 20.762 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN054435.D
 Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Lower	Upper
69	100		
41	57.2	49.4	74.2
39	28.3	28.3	42.5#





#57

1,3-Dichloropropane

Concen: 20.546 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampled :

VN0319MBS01

Tot Ion: 76 Resp: 419012

Ion Ratio Lower Upper

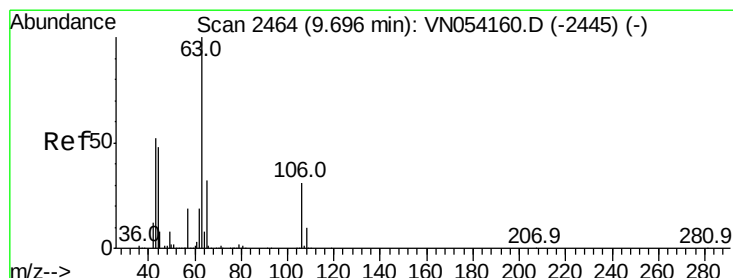
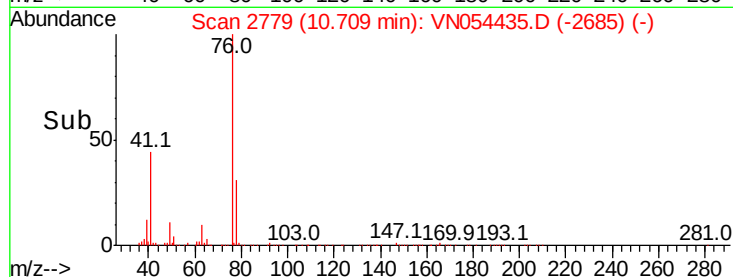
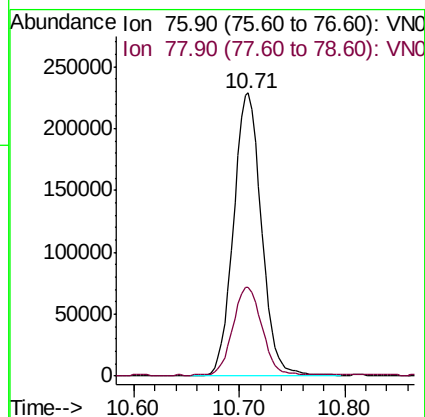
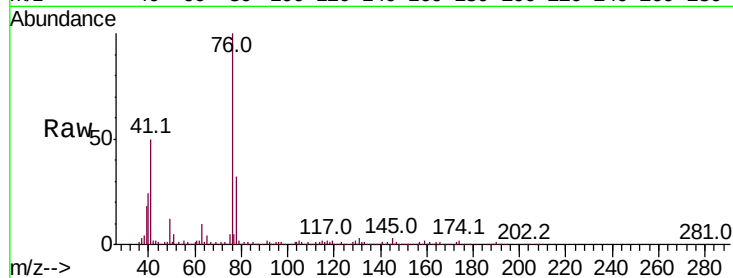
76 100

78 32.7 25.7 38.5

Manual Integrations
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3/20/2019 12:21:36 PM



#58

2-Chloroethyl Vinyl ether

Concen: 107.336 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN054435.D

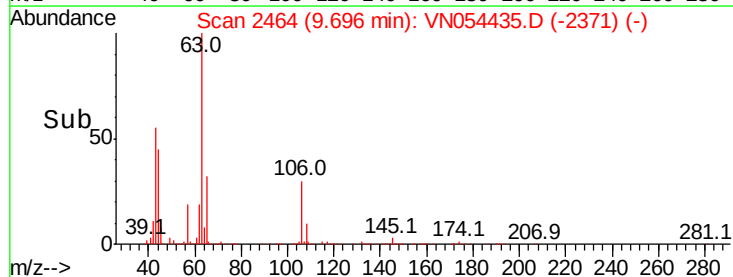
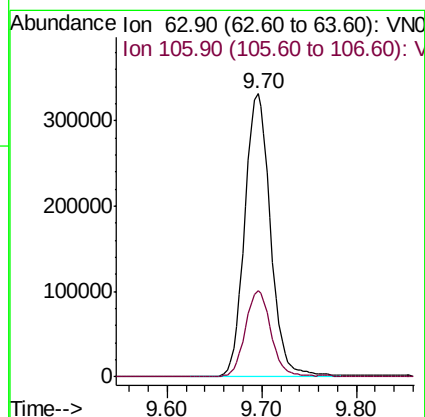
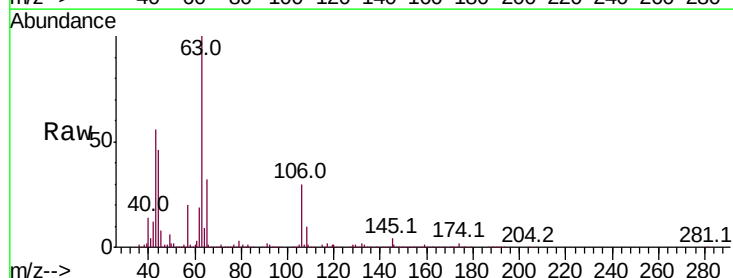
Acq: 19 Mar 2019 12:41

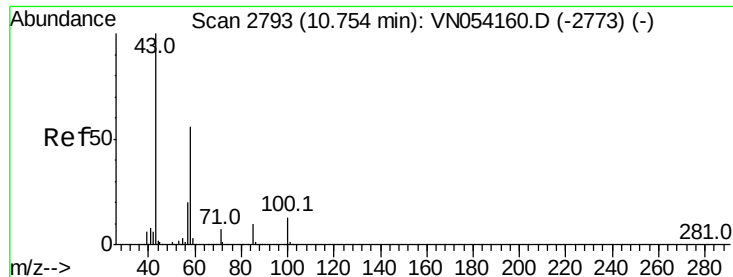
Tgt Ion: 63 Resp: 626105

Ion Ratio Lower Upper

63 100

106 30.0 24.4 36.6





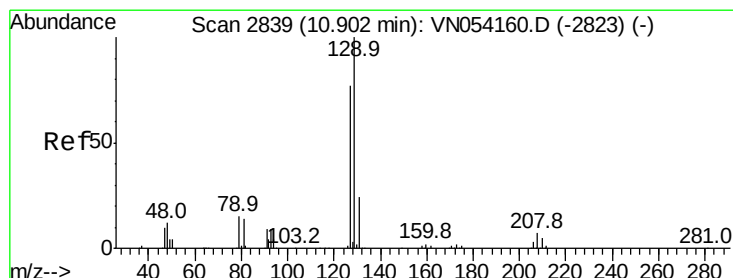
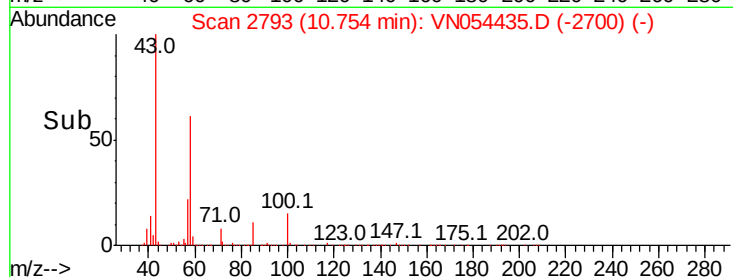
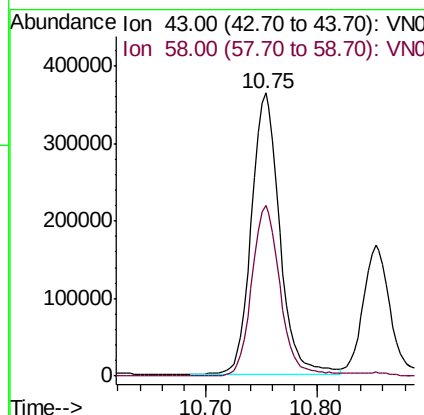
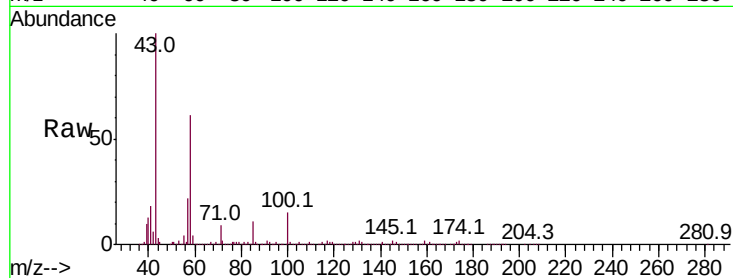
#59
2-Hexanone
Concen: 96.868 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Instrument :
MSVOA_N
ClientSampleId :
VN0319MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	61.1	28.0	83.9

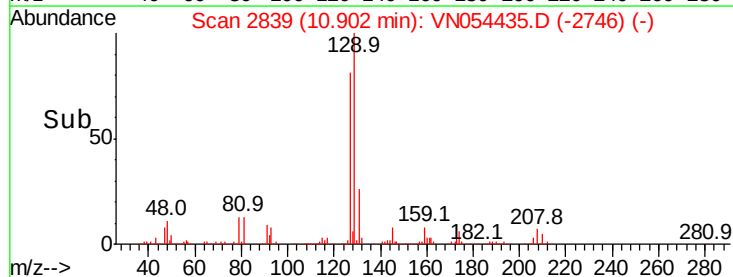
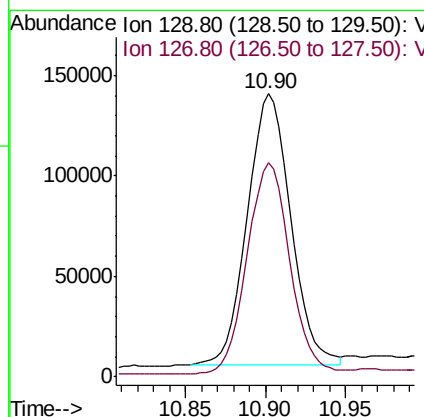
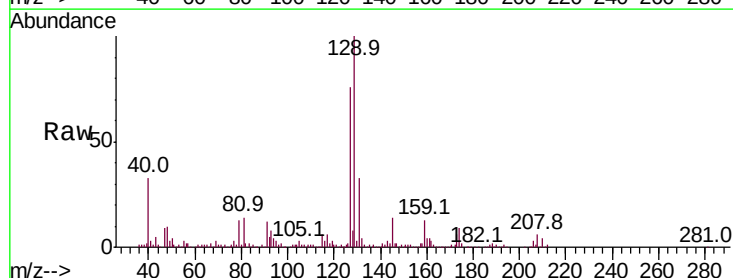
Manual Integrations
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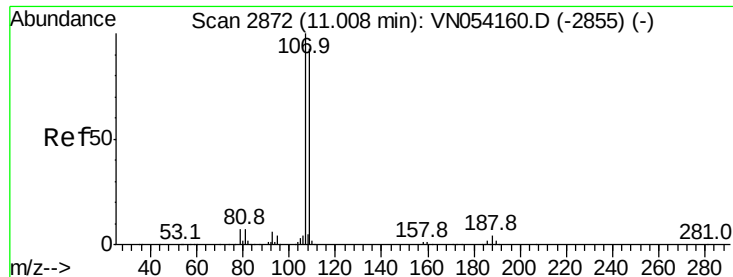
MMDadoda
3/20/2019 12:21:36 PM



#60
Dibromochloromethane
Concen: 17.759 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.6	115.8





#61

1,2-Dibromoethane

Concen: 20.411 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

VN0319MBS01

Tot Ion:107 Resp: 258708

Ion Ratio Lower Upper

107 100

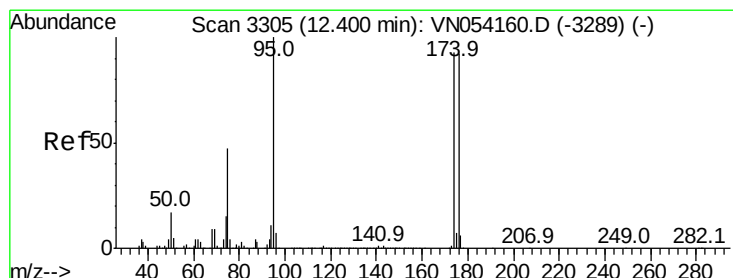
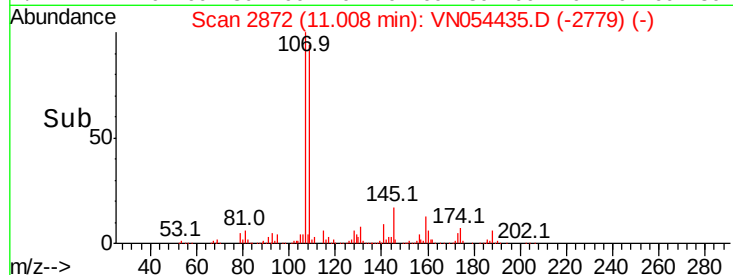
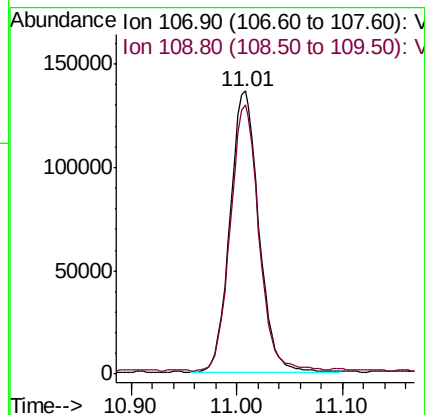
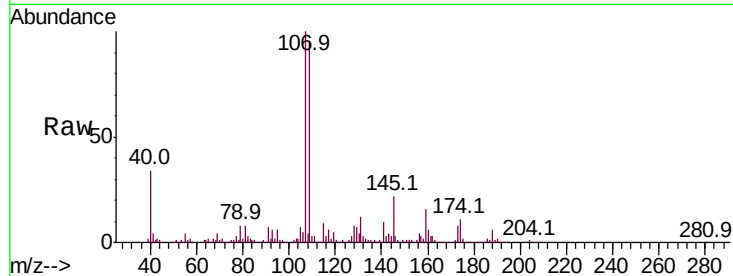
109 92.5 75.9 113.9

Manual Integrations

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3/20/2019 12:21:36 PM



#62

4-Bromofluorobenzene

Concen: 46.125 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

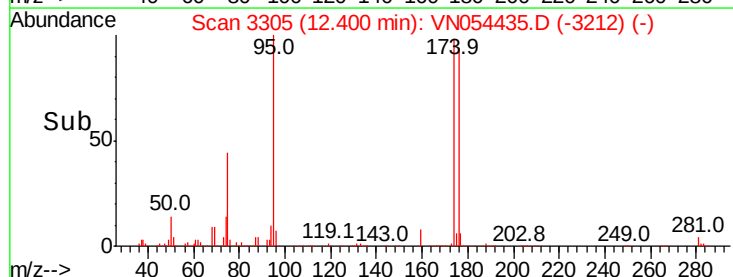
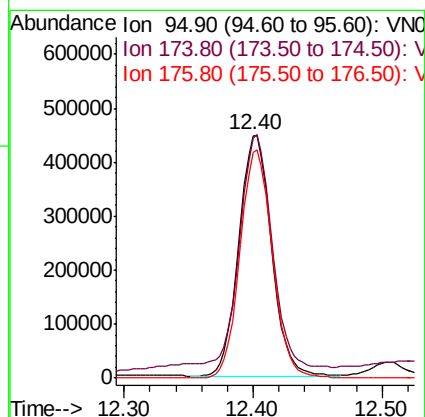
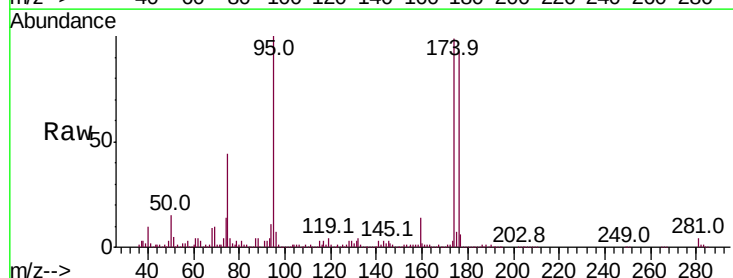
Tgt Ion: 95 Resp: 785850

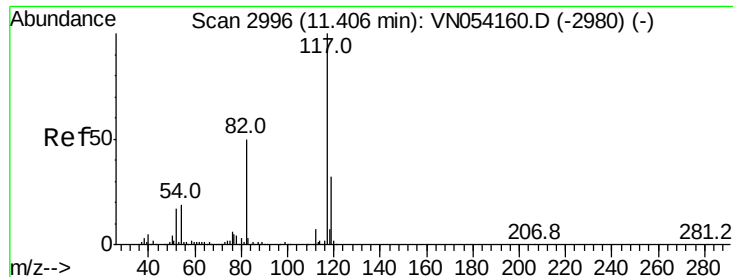
Ion Ratio Lower Upper

95 100

174 96.5 0.0 191.0

176 93.9 0.0 187.4





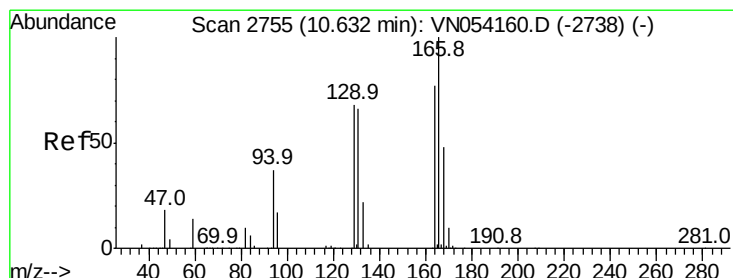
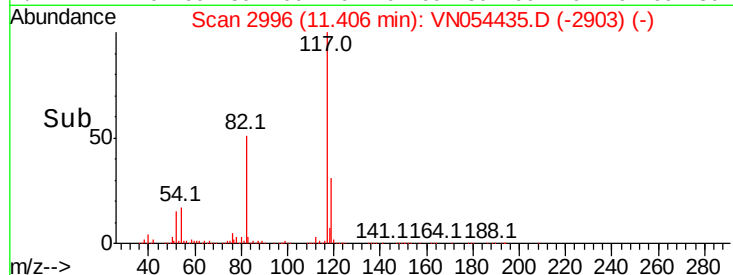
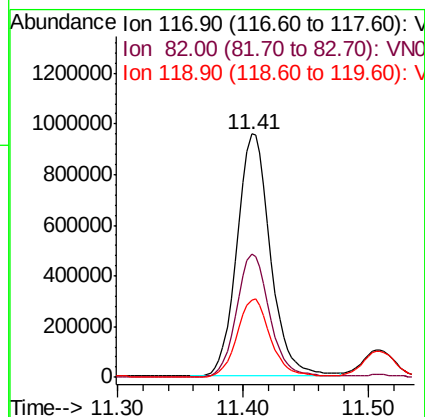
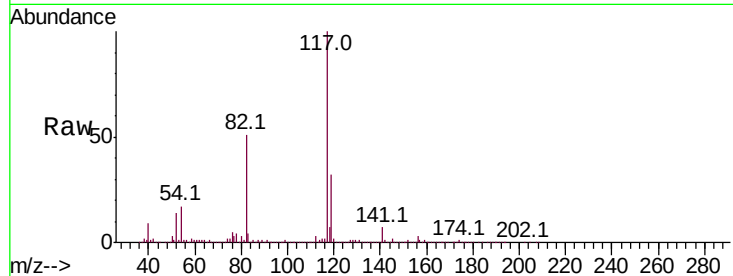
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Instrument :
MSVOA_N
ClientSampleId :
VN0319MBS01

Tot Ion:117 Resp: 1767635
Ion Ratio Lower Upper
117 100
82 50.9 40.0 60.0
119 31.8 25.8 38.6

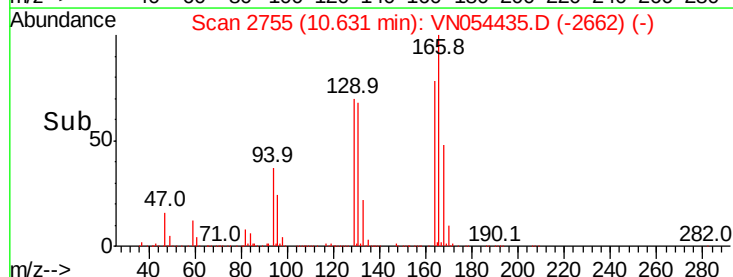
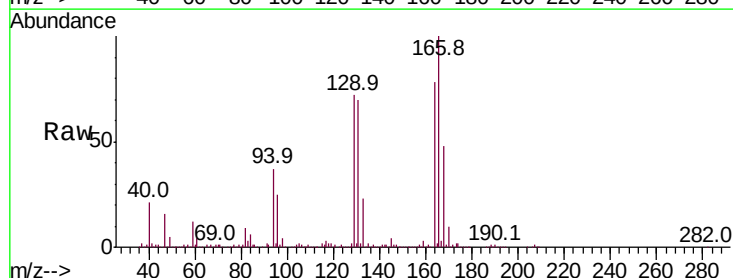
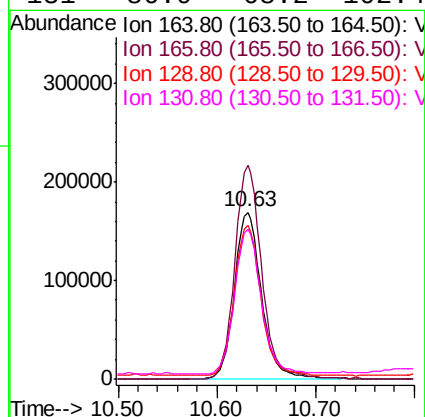
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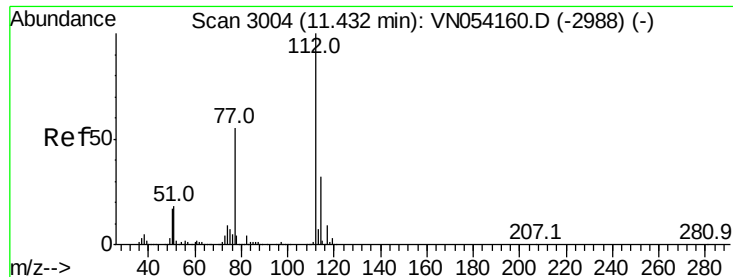
MMDadoda
3/20/2019 12:21:36 PM



#64
Tetrachloroethene
Concen: 18.865 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Tgt Ion:164 Resp: 322405
Ion Ratio Lower Upper
164 100
166 127.9 103.9 155.9
129 89.6 71.1 106.7
131 86.9 68.2 102.4





#65

Chlorobenzene

Concen: 20.475 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

VN0319MBS01

Tot Ion:112 Resp: 794690

Ion Ratio Lower Upper

112 100

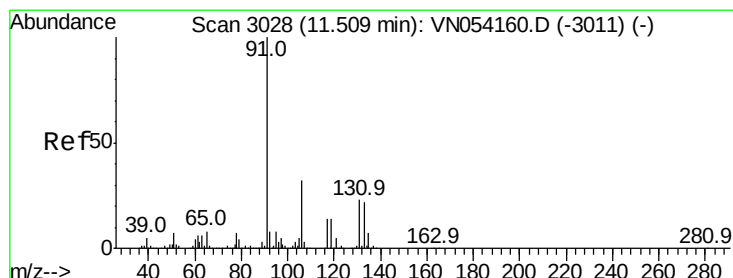
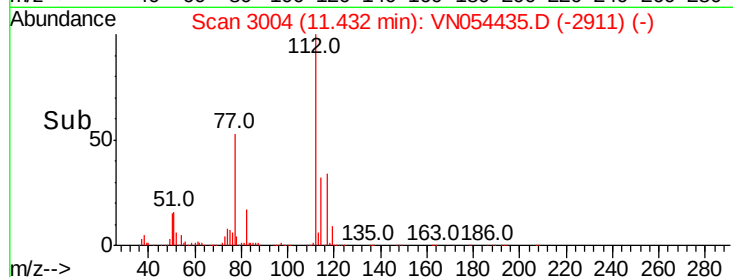
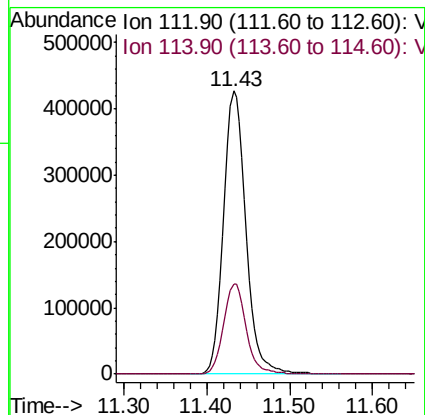
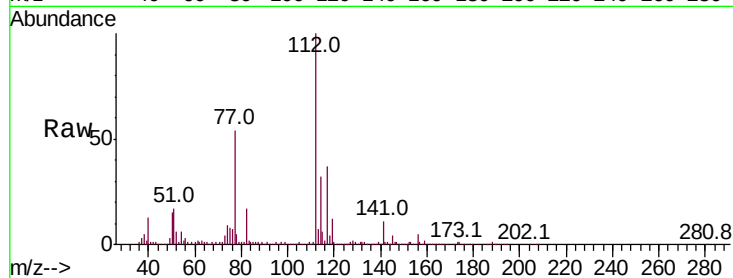
114 31.9 25.9 38.9

Manual Integrations

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3/20/2019 12:21:36 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 19.587 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

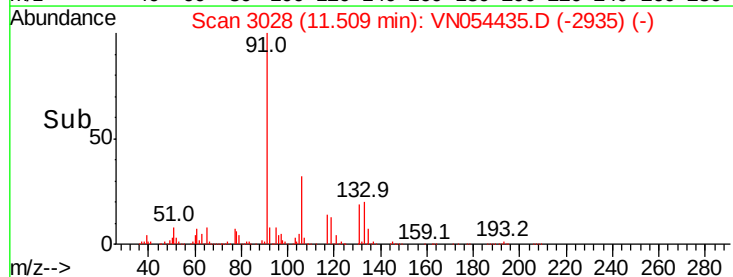
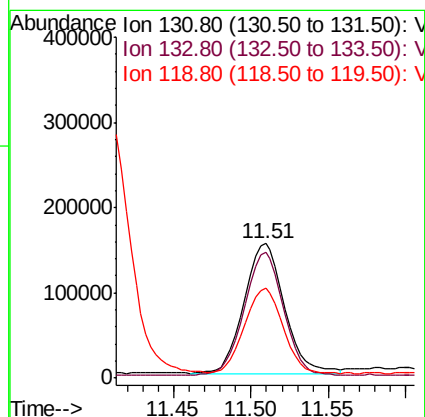
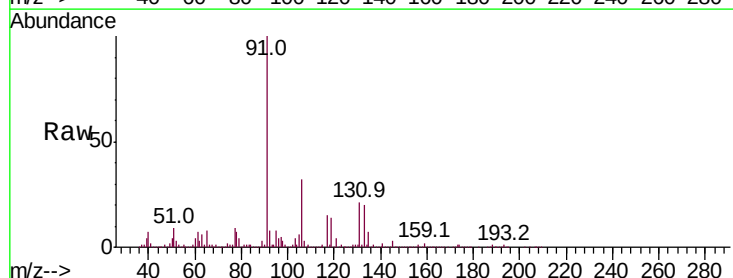
Tgt Ion:131 Resp: 276164

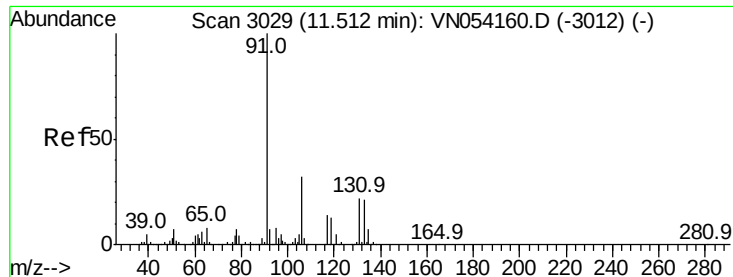
Ion Ratio Lower Upper

131 100

133 91.4 47.6 142.9

119 63.4 32.4 97.0





#67

Ethyl Benzene

Concen: 20.222 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampled :

VN0319MBS01

Tot Ion: 91 Resp: 1301076

Ion Ratio Lower Upper

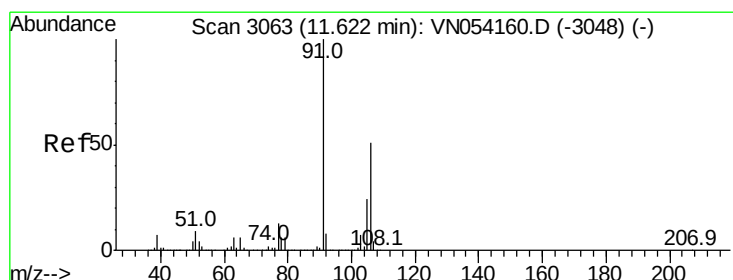
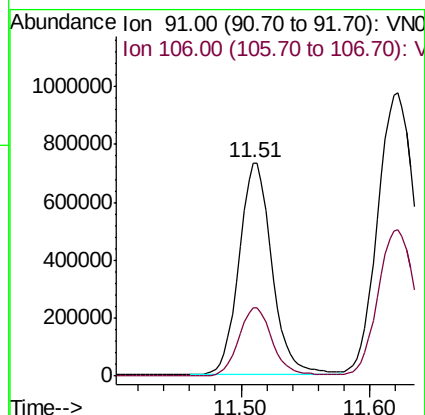
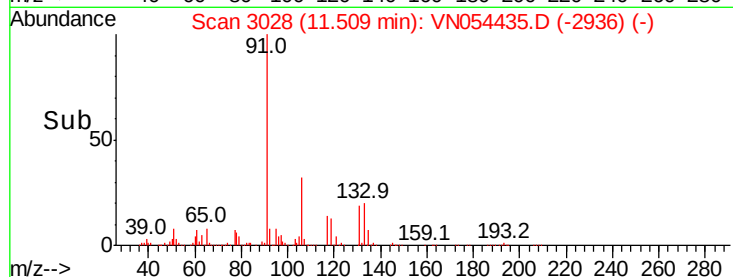
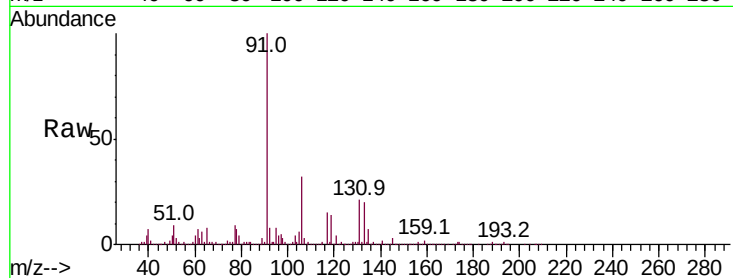
91 100

106 31.9 25.5 38.3

Manual Integrations
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3/20/2019 12:21:36 PM



#68

m/p-Xylenes

Concen: 40.756 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN054435.D

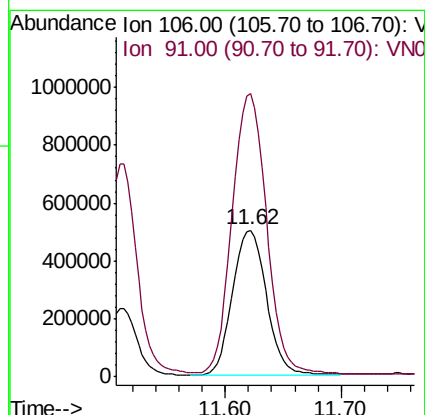
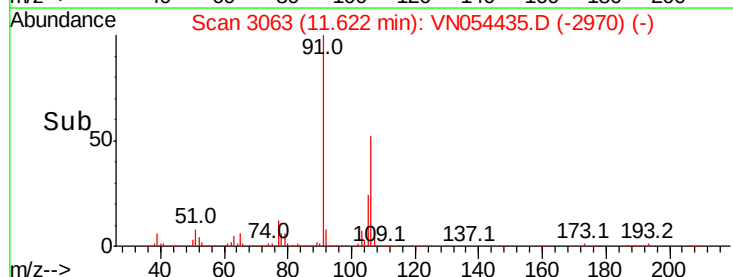
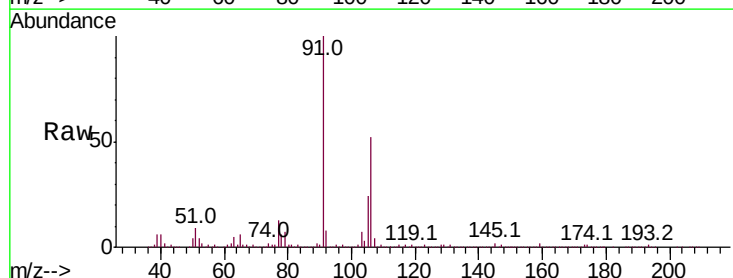
Acq: 19 Mar 2019 12:41

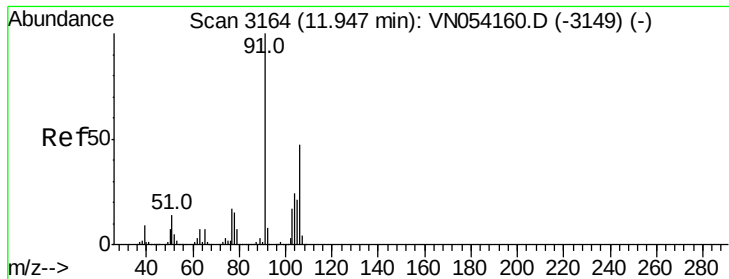
Tgt Ion: 106 Resp: 1024855

Ion Ratio Lower Upper

106 100

91 194.3 159.4 239.2





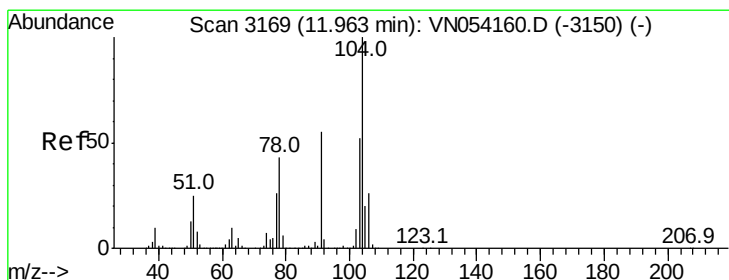
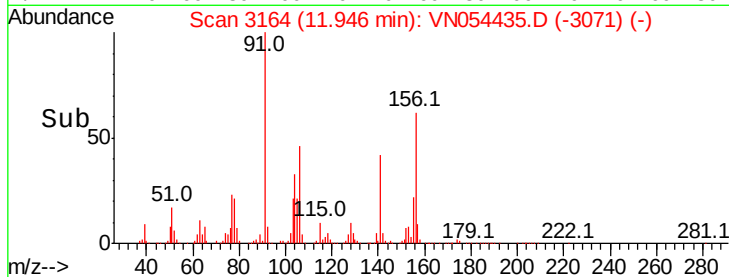
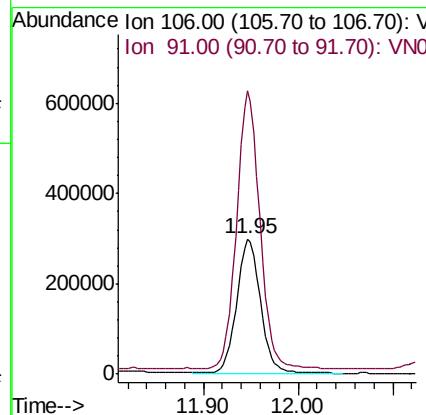
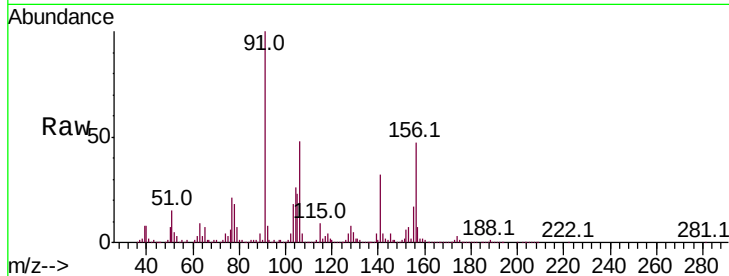
#69
o-Xylene
Concen: 21.193 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Instrument :
MSVOA_N
ClientSampleId :
VN0319MBS01

Tot Ion:106 Resp: 519522
Ion Ratio Lower Upper
106 100
91 201.3 105.7 317.1

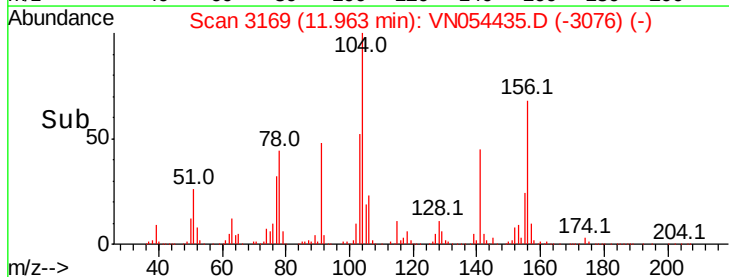
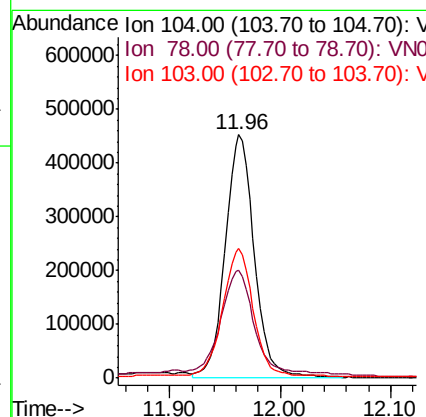
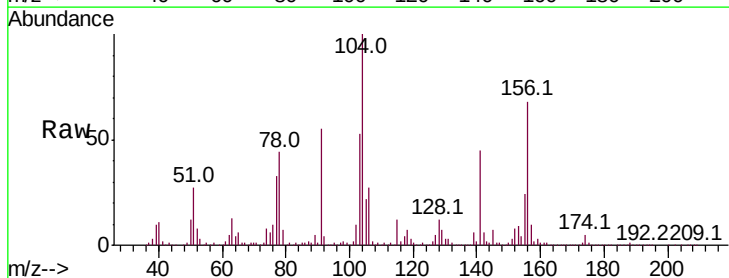
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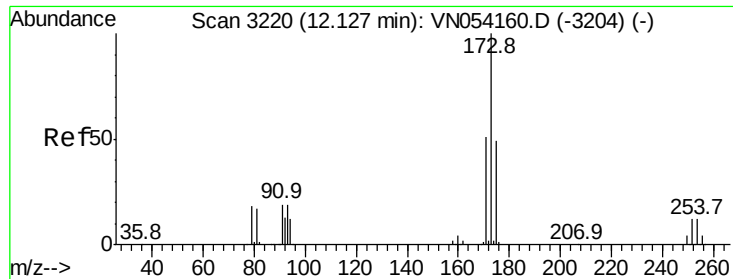
MMDadoda
3/20/2019 12:21:36 PM



#70
Styrene
Concen: 21.214 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Tgt Ion:104 Resp: 815598
Ion Ratio Lower Upper
104 100
78 49.5 38.2 57.2
103 54.7 44.4 66.6





#71

Bromoform

Concen: 16.197 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

VN0319MBS01

Tot Ion:173 Resp: 156157

Ion Ratio Lower Upper

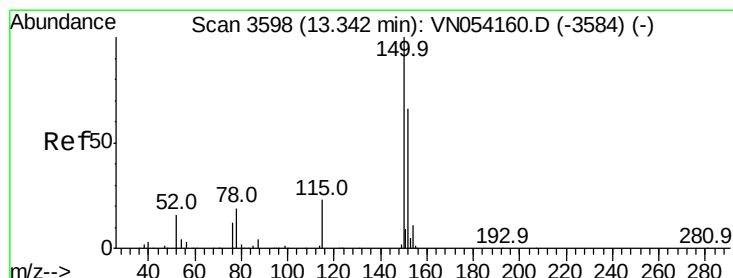
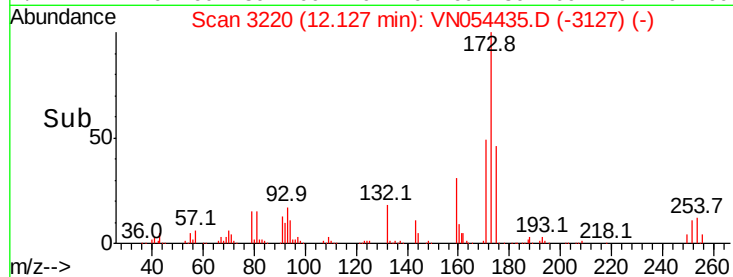
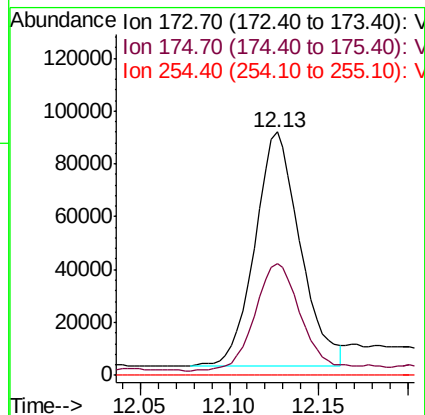
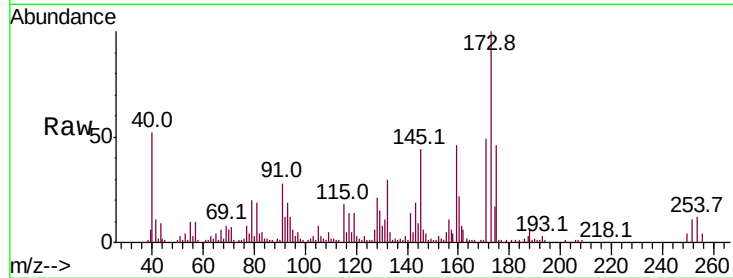
173 100

175 46.8 24.4 73.2

254 0.1 0.1 0.1#

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3/20/2019 12:21:36 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

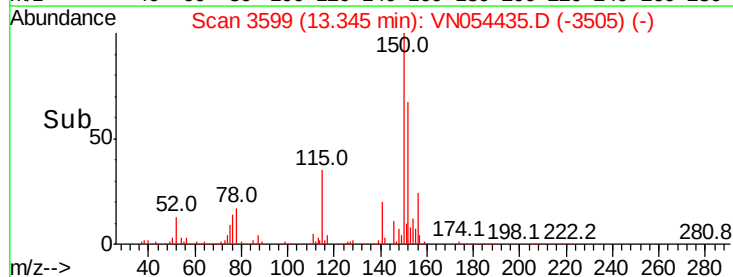
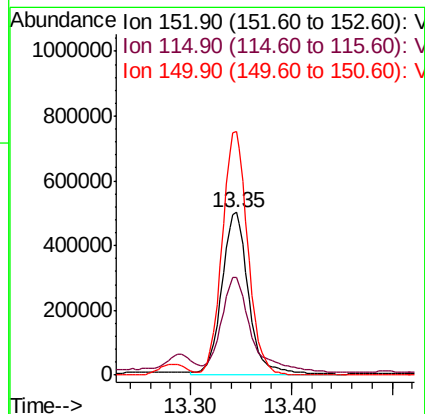
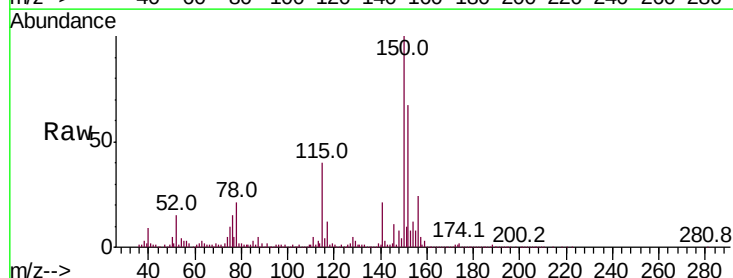
Tgt Ion:152 Resp: 917232

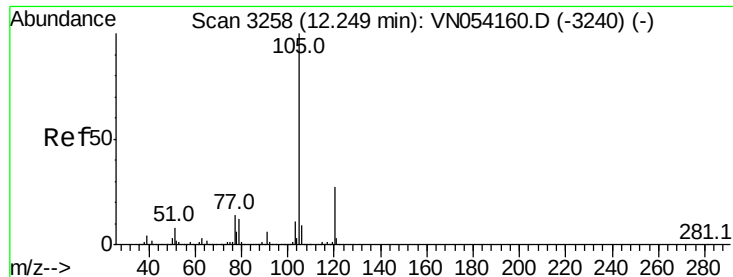
Ion Ratio Lower Upper

152 100

115 65.2 27.2 81.6

150 144.2 0.0 349.2





#73

Isopropylbenzene

Concen: 18.299 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

VN0319MBS01

Tot Ion:105 Resp: 1342885

Ion Ratio Lower Upper

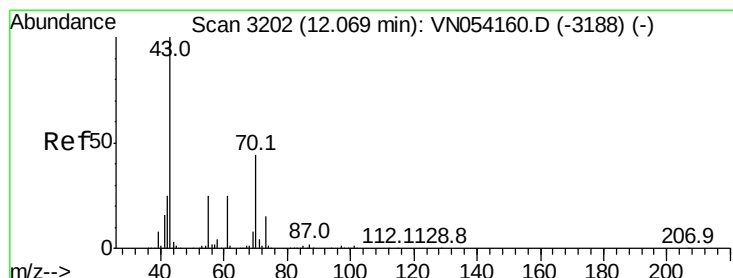
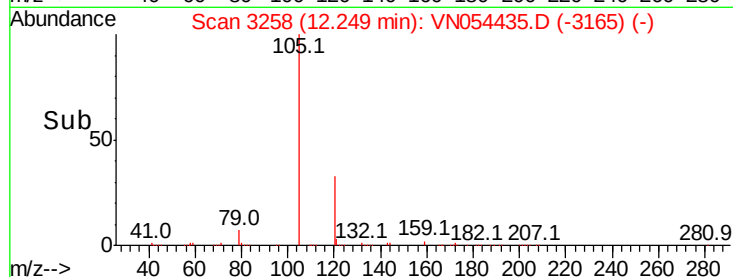
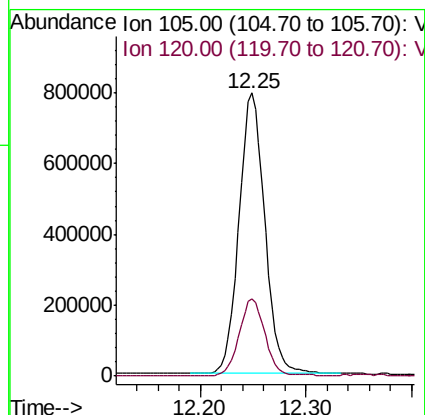
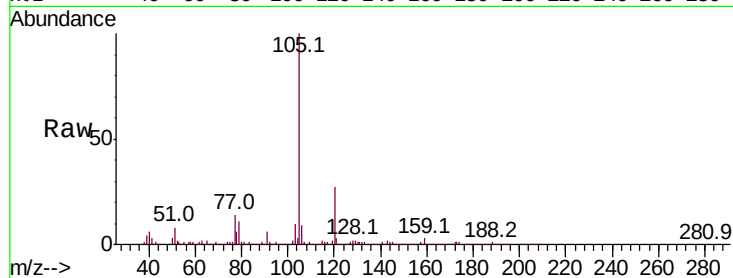
105 100

120 27.2 13.8 41.3

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3/20/2019 12:21:36 PM



#74

N-ethyl acetate

Concen: 17.502 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Tgt Ion: 43 Resp: 285090

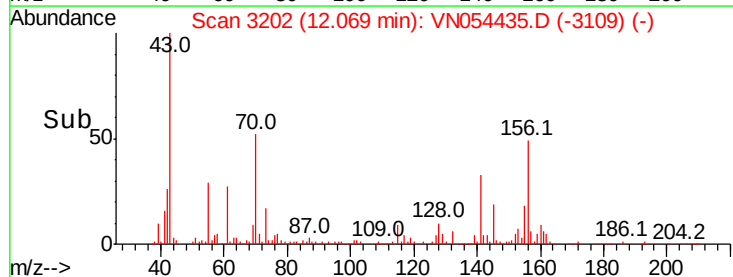
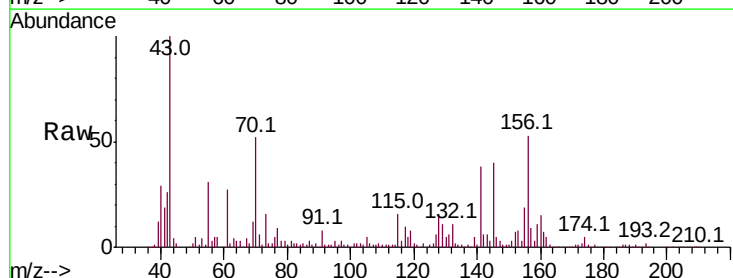
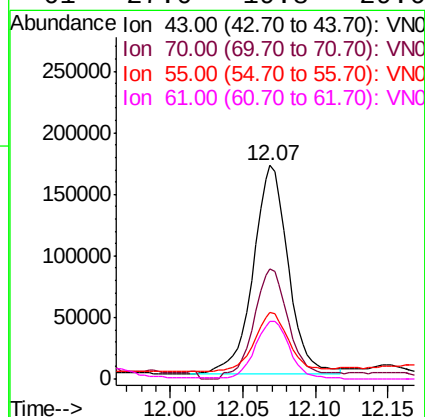
Ion Ratio Lower Upper

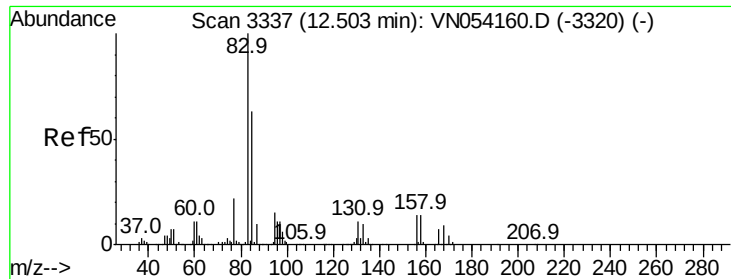
43 100

70 54.5 35.4 53.0#

55 28.1 19.8 29.6

61 27.0 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 18.530 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

VN0319MBS01

Tot Ion: 83 Resp: 289720

Ion Ratio Lower Upper

83 100

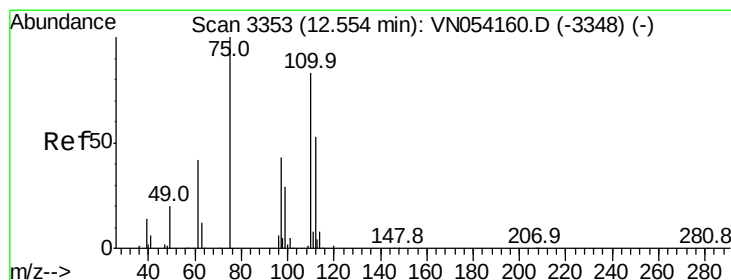
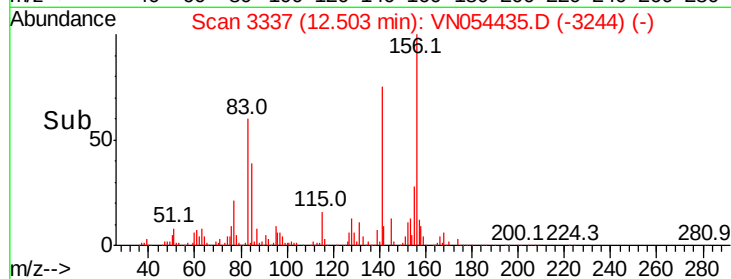
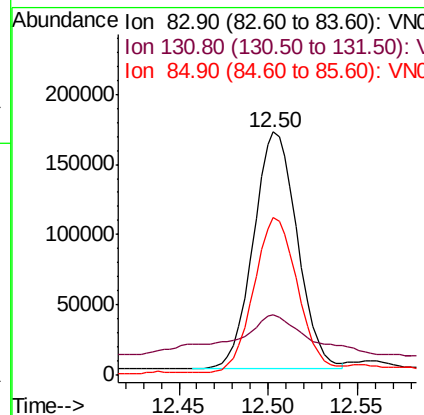
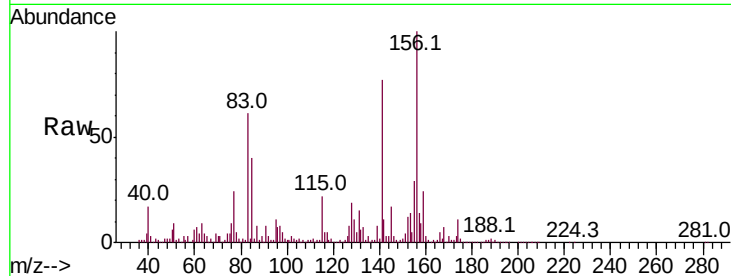
131 41.8 5.8 17.4#

85 65.8 32.2 96.6

Manual Integrations
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3/20/2019 12:21:36 PM



#76

1,2,3-Trichloropropane

Concen: 21.087 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN054435.D

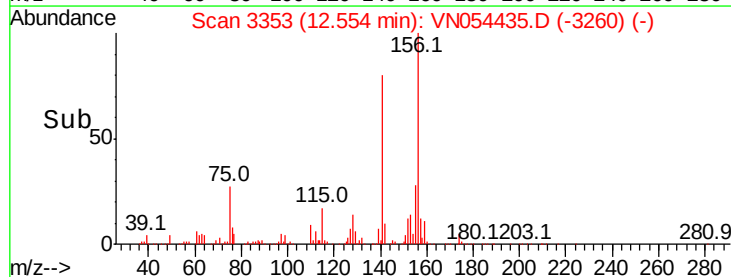
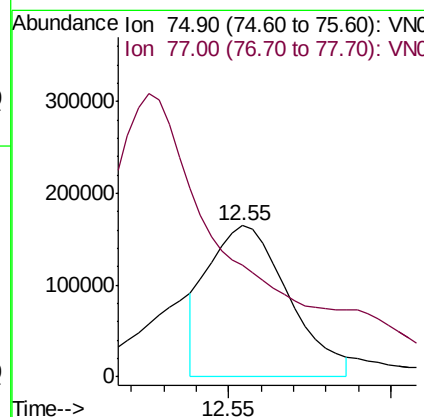
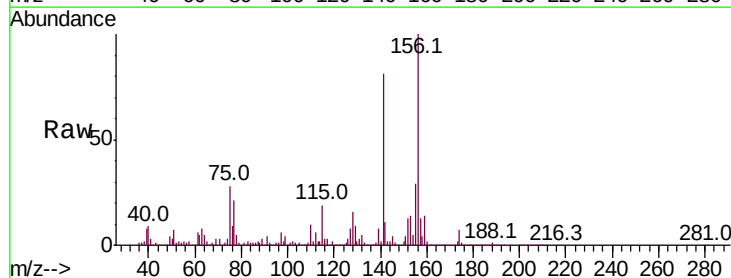
Acq: 19 Mar 2019 12:41

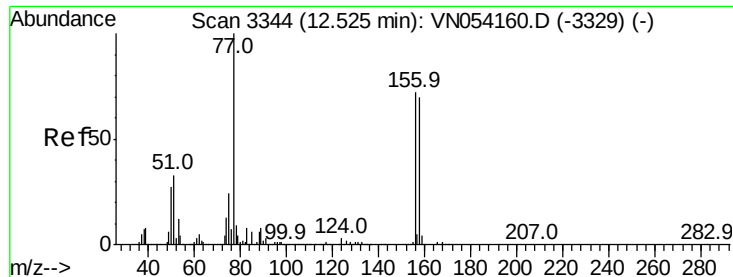
Tgt Ion: 75 Resp: 284422

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 105.409 ug/l

RT: 12.53 min Scan# 3346

Delta R.T. 0.01 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

VN0319MBS01

Tot Ion:156 Resp: 2046894

Ion Ratio Lower Upper

156 100

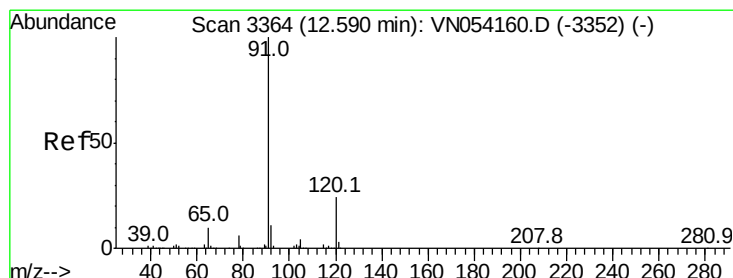
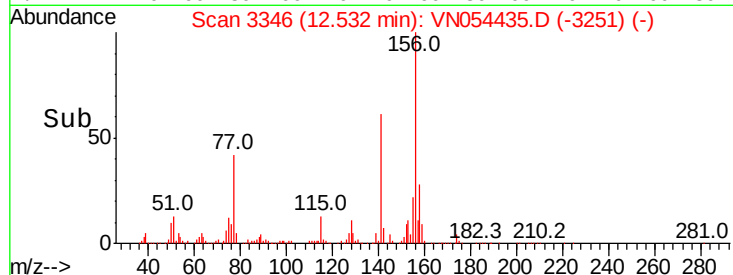
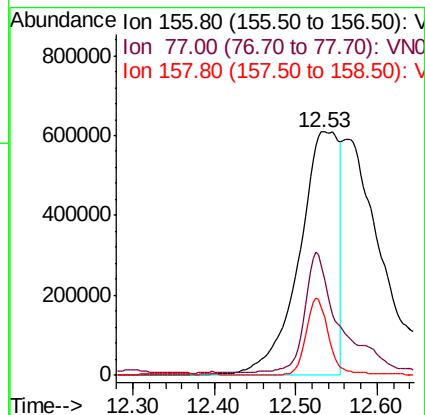
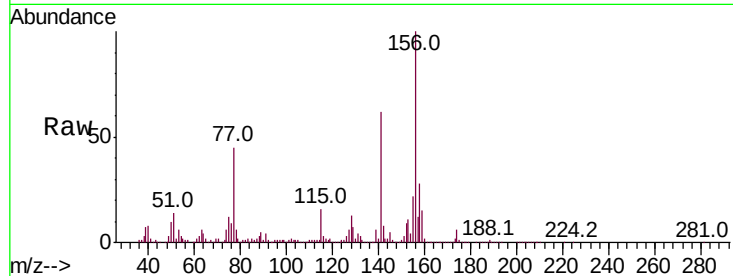
77 44.1 81.5 244.4#

158 17.6 49.0 147.2#

Manual Integrations
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#78

n-propylbenzene

Concen: 17.890 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054435.D

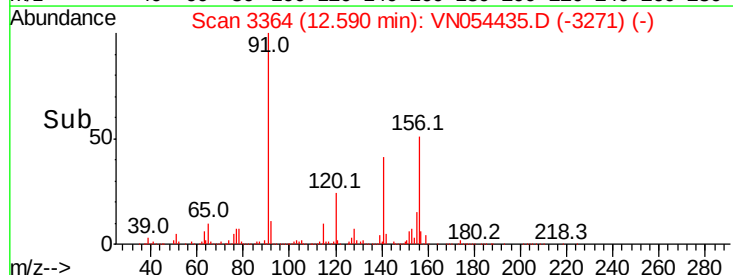
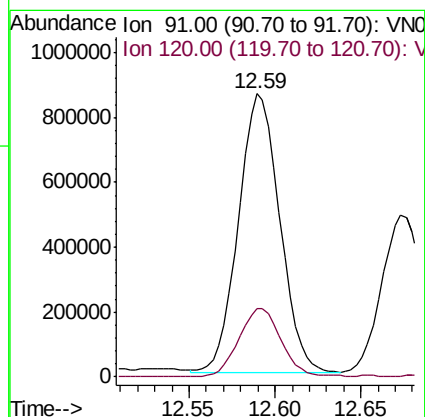
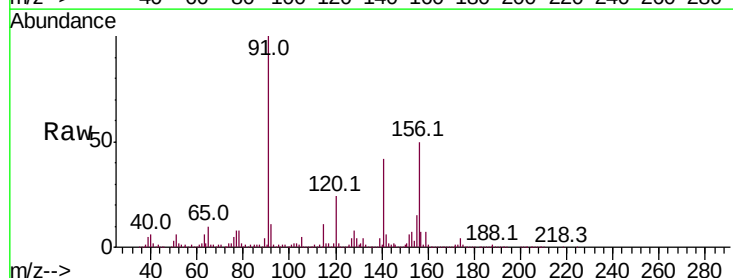
Acq: 19 Mar 2019 12:41

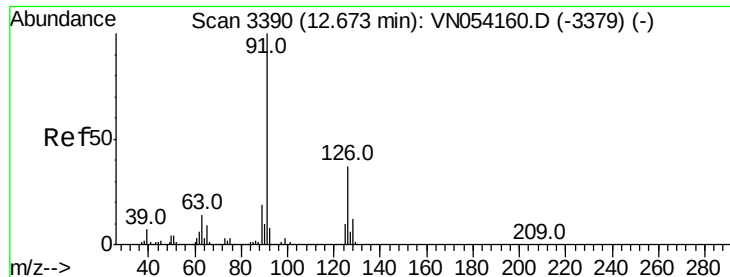
Tgt Ion: 91 Resp: 1424554

Ion Ratio Lower Upper

91 100

120 25.4 12.3 36.9





#79

2-Chlorotoluene

Concen: 17.542 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

VN0319MBS01

Tot Ion: 91 Resp: 839852

Ion Ratio Lower Upper

91 100

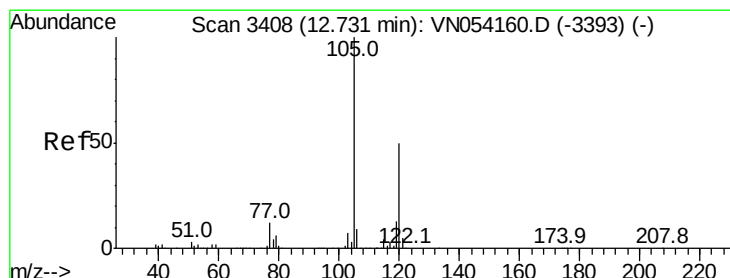
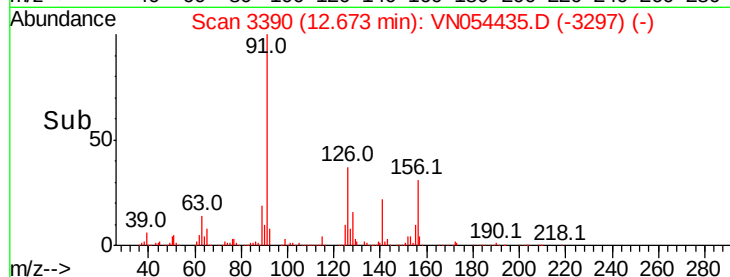
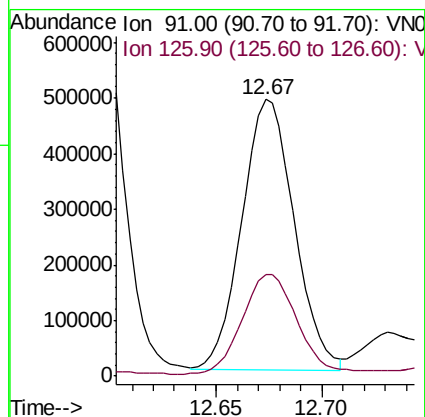
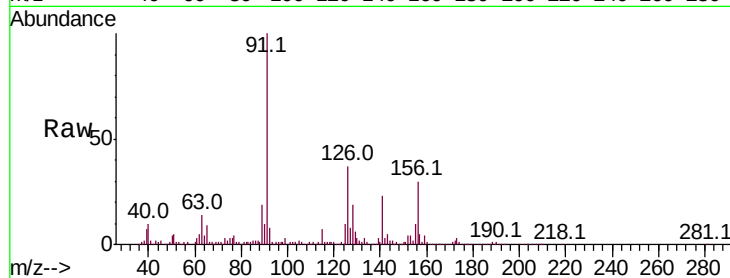
126 39.3 18.7 56.1

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 19.661 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054435.D

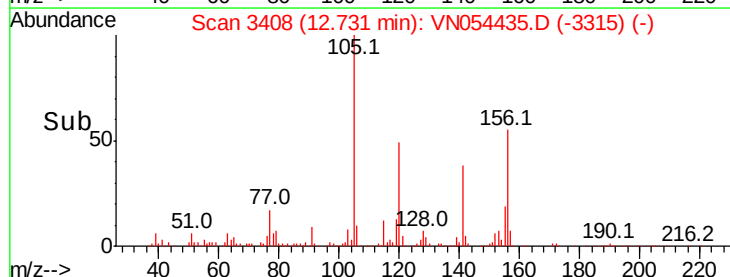
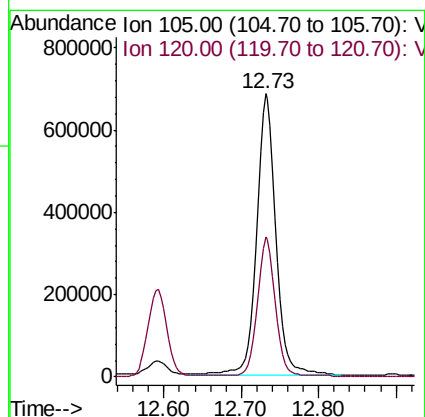
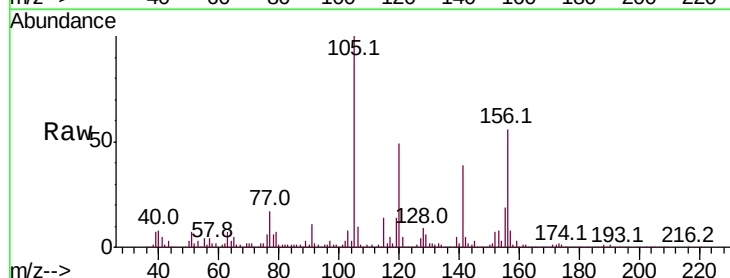
Acq: 19 Mar 2019 12:41

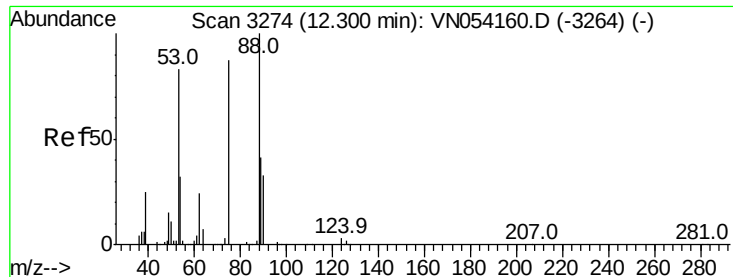
Tgt Ion: 105 Resp: 1200113

Ion Ratio Lower Upper

105 100

120 45.9 25.0 75.0





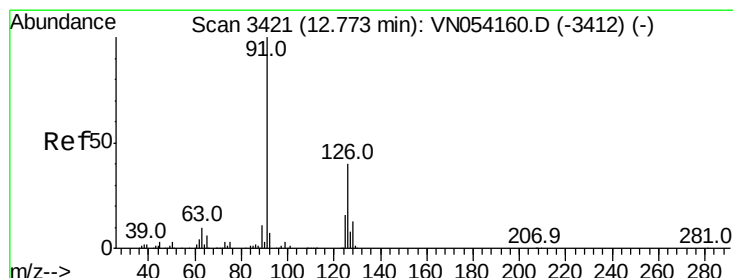
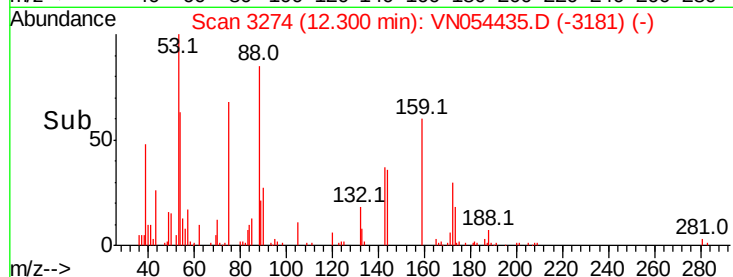
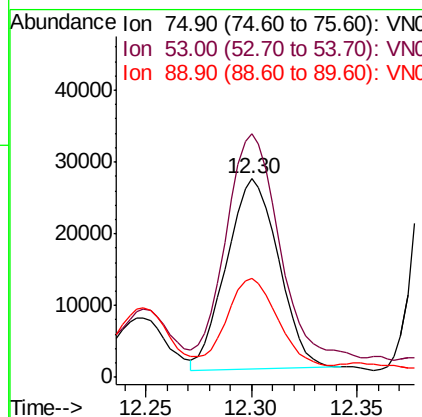
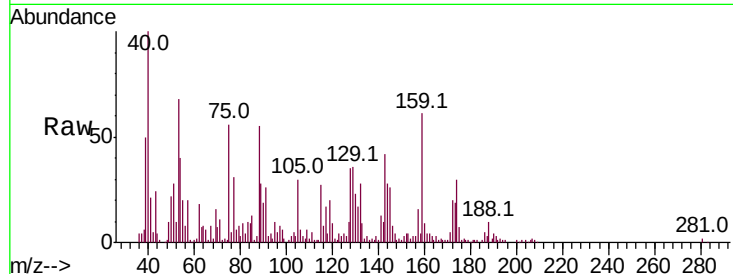
#81
trans-1,4-Dichloro-2-butene
Concen: 11.589 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Instrument :
MSVOA_N
ClientSampled :
VN0319MBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	121.4	76.2	114.2#
89	46.3	39.2	58.8

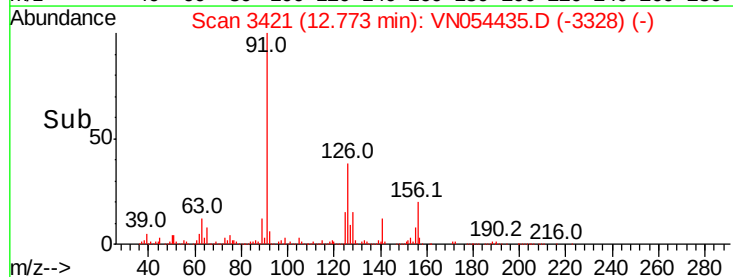
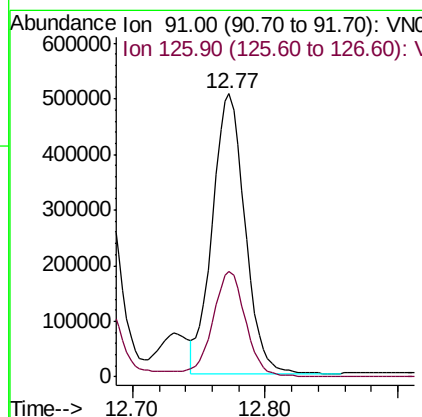
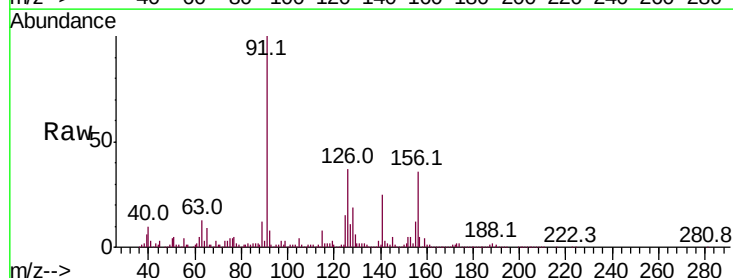
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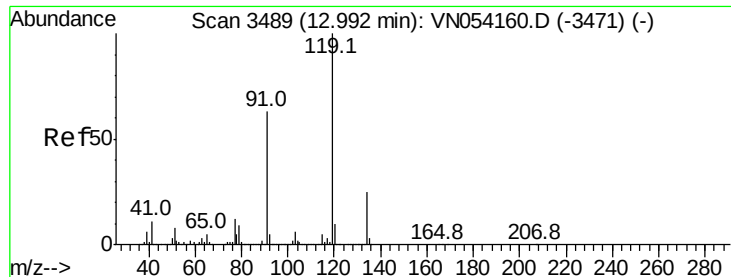
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#82
4-Chlorotoluene
Concen: 17.903 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Lower	Upper
91	100		
126	37.9	18.1	54.1





#83

tert-Butylbenzene

Concen: 17.369 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

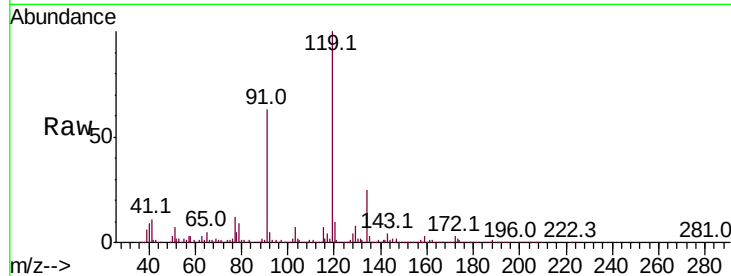
ClientSampleId :

VN0319MBS01

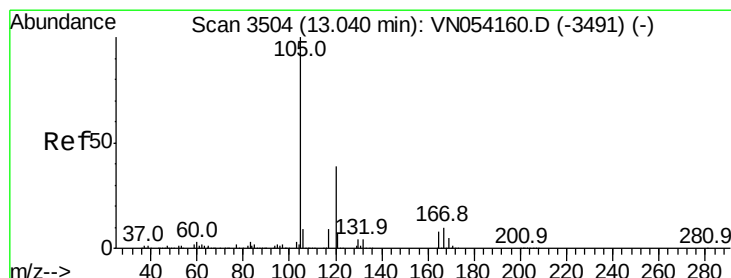
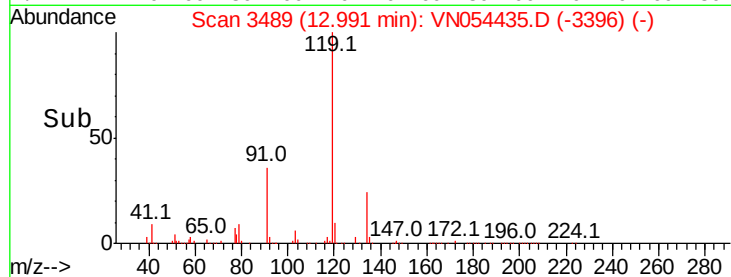
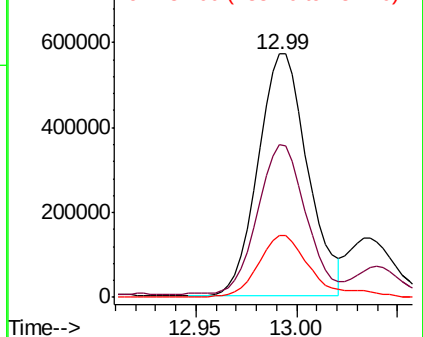
Tot Ion:	119	Resp:	975876
Ion Ratio	Lower	Upper	
119	100		
91	60.0	30.9	92.8
134	26.9	13.2	39.6

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



#84

1,2,4-Trimethylbenzene

Concen: 18.379 ug/l

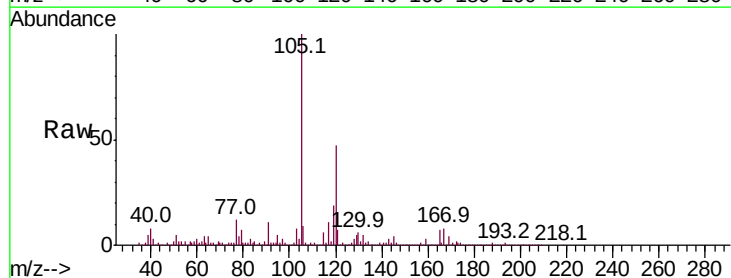
RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

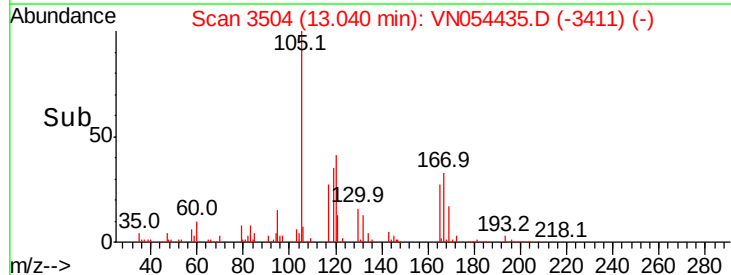
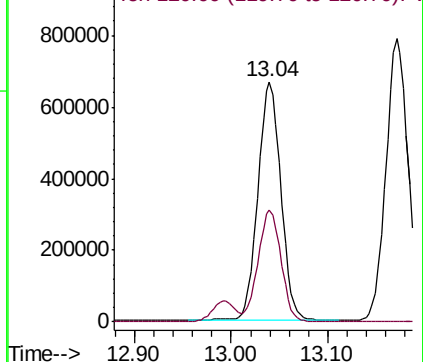
Lab File: VN054435.D

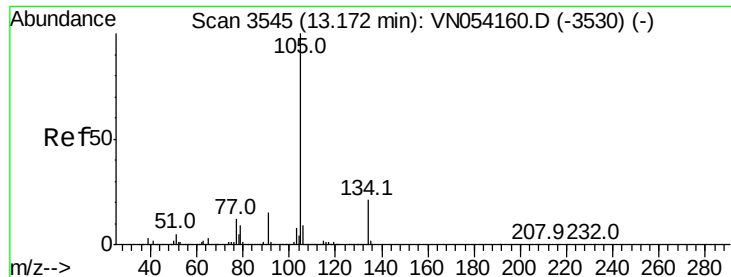
Acq: 19 Mar 2019 12:41

Tgt Ion:	105	Resp:	1100627
Ion Ratio	Lower	Upper	
105	100		
120	46.4	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: 17.130 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

ClientSampleId :

VN0319MBS01

Tot Ion:105 Resp: 1248157

Ion Ratio Lower Upper

105 100

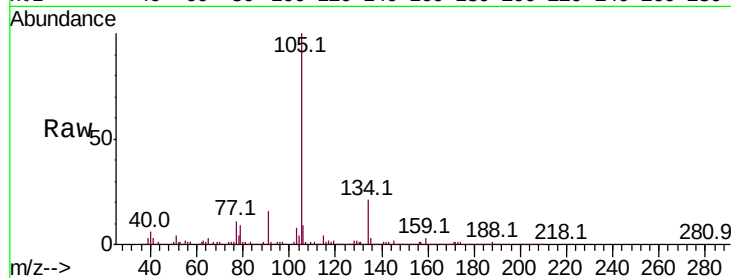
134 21.5 10.7 32.1

Manual Integrations

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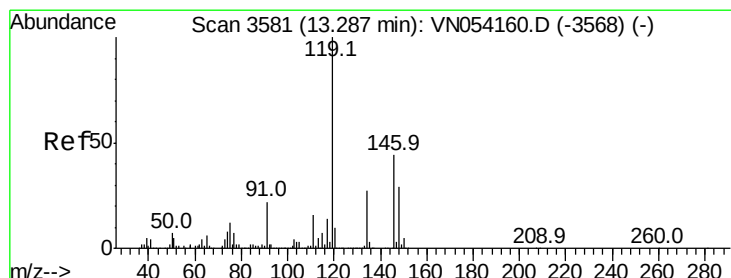
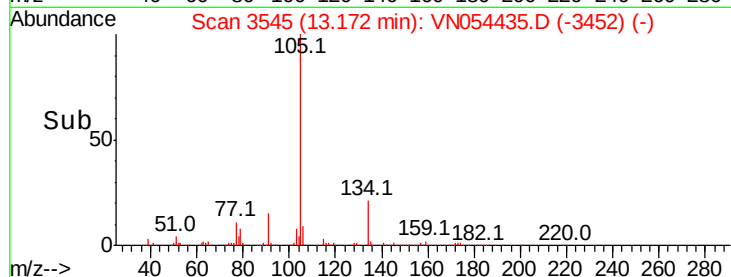
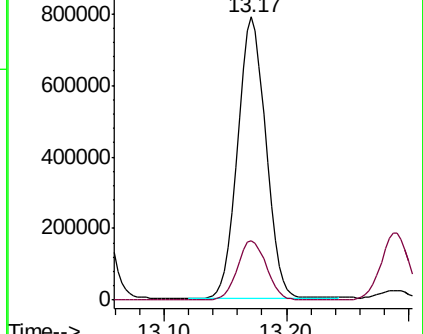
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 17.463 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

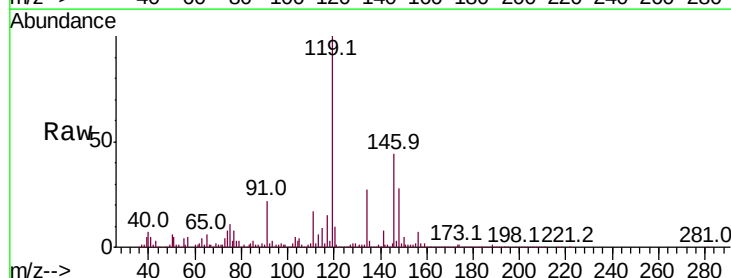
Tgt Ion:119 Resp: 1116269

Ion Ratio Lower Upper

119 100

134 27.0 13.6 40.8

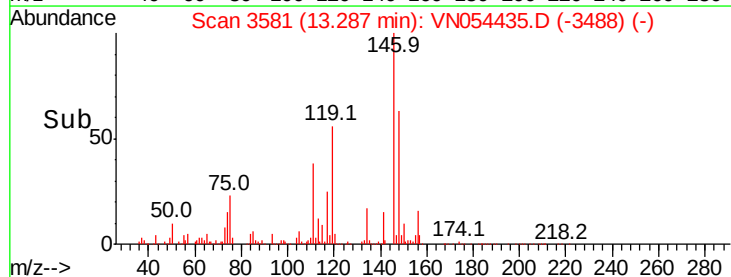
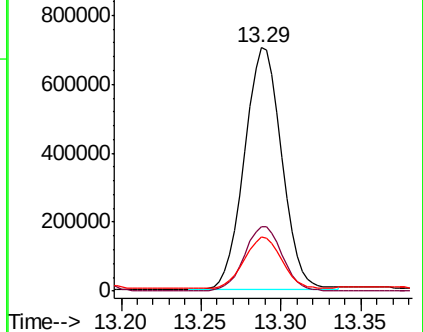
91 20.8 11.1 33.3

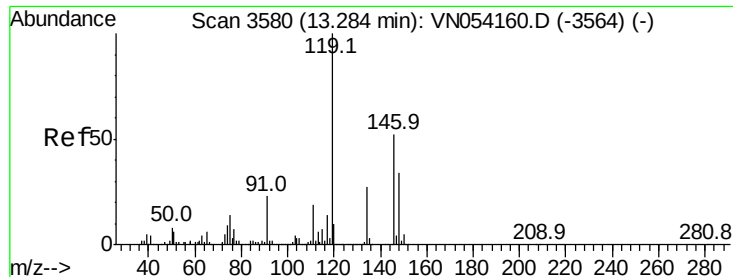


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 17.598 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Instrument :

MSVOA_N

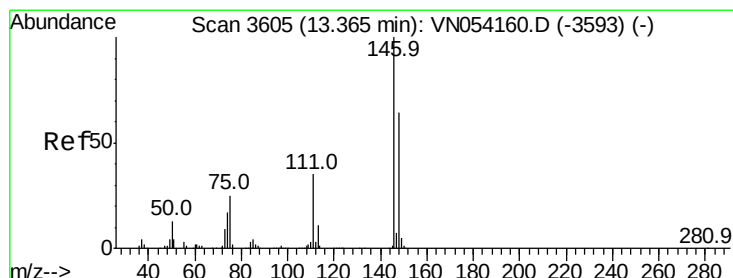
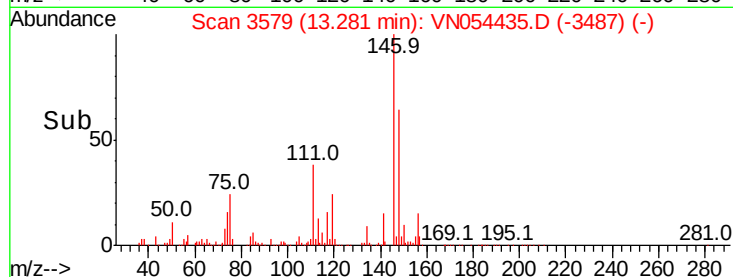
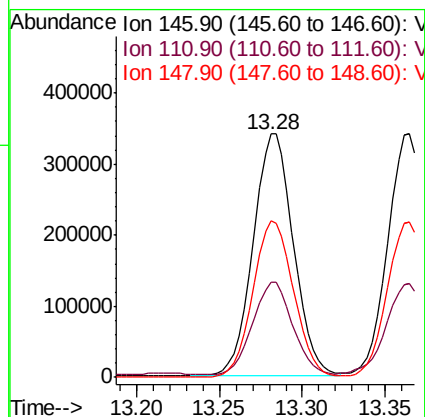
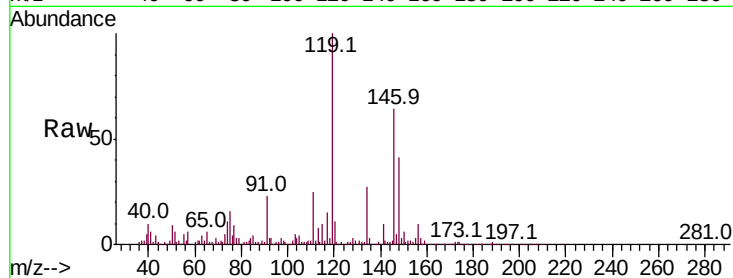
ClientSampled :

VN0319MBS01

Tot Ion:	146	Resp:	575813
Ion Ratio	Lower	Upper	
146	100		
111	38.0	18.8	56.3
148	64.9	32.2	96.6

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3/20/2019 12:21:36 PM



#88

1,4-Dichlorobenzene

Concen: 17.418 ug/l

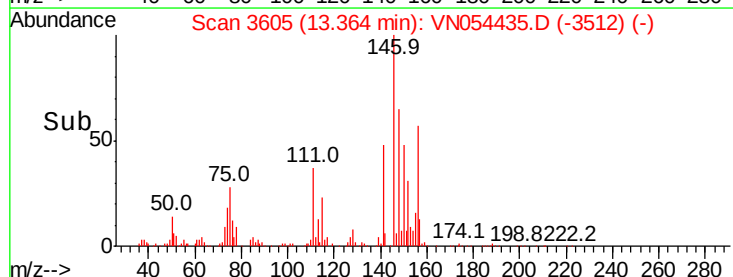
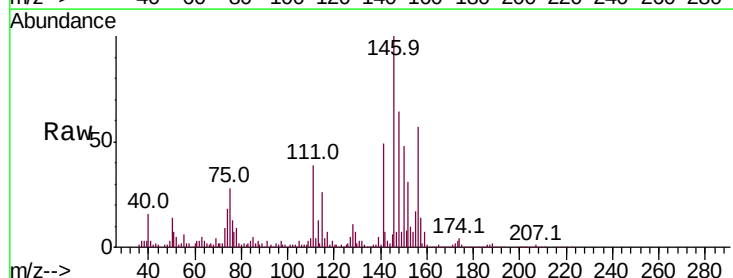
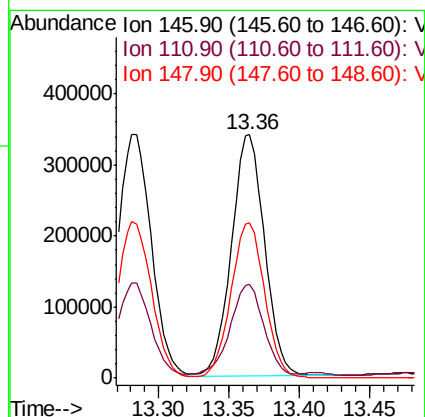
RT: 13.36 min Scan# 3605

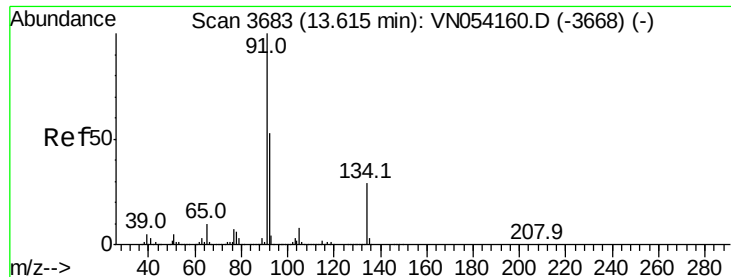
Delta R.T. -0.00 min

Lab File: VN054435.D

Acq: 19 Mar 2019 12:41

Tgt Ion:	146	Resp:	559876
Ion Ratio	Lower	Upper	
146	100		
111	38.2	18.1	54.1
148	65.0	32.0	96.0





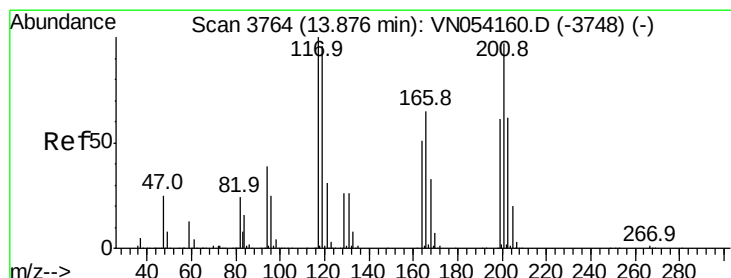
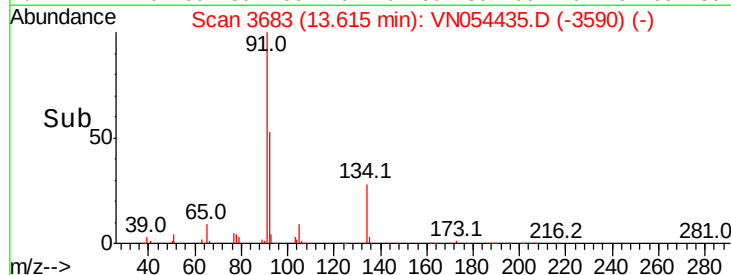
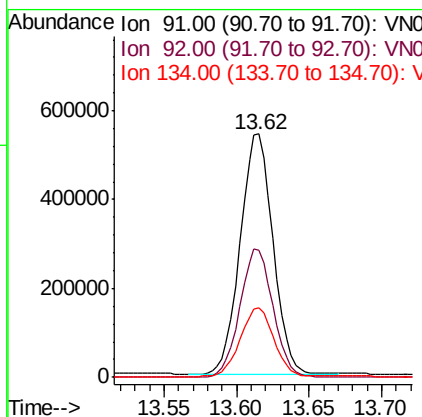
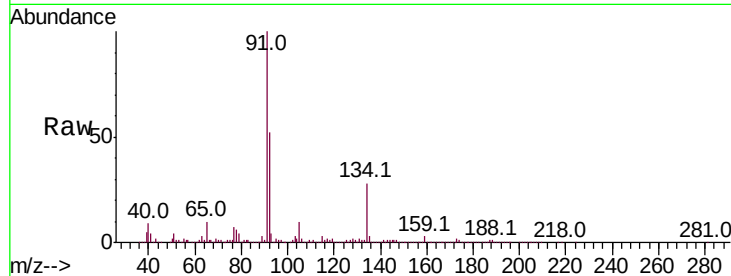
#89
n-Butylbenzene
Concen: 17.508 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Instrument :
MSVOA_N
ClientSampleId :
VN0319MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.2	78.6
134	29.7	14.3	42.9

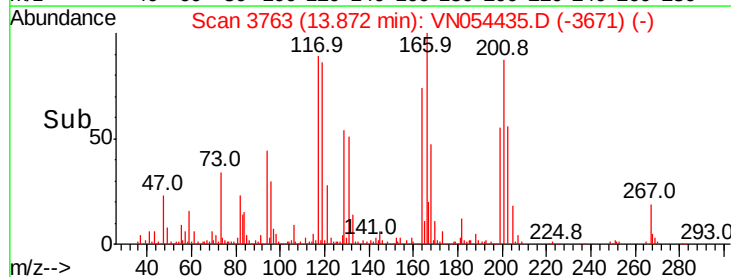
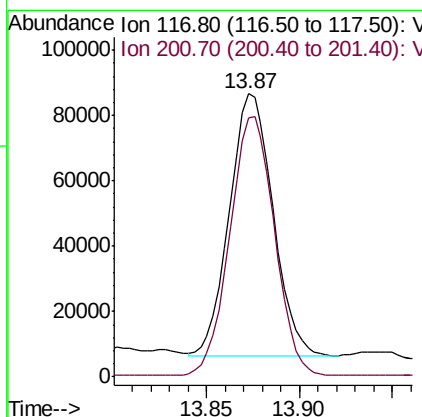
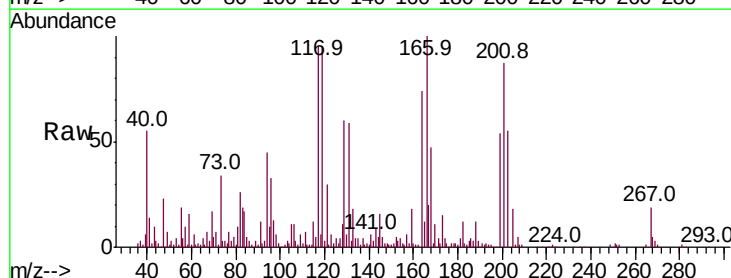
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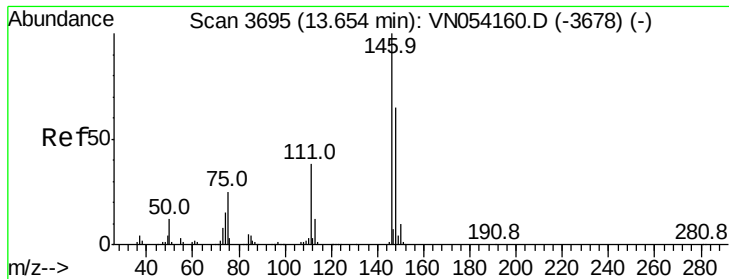
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#90
Hexachloroethane
Concen: 12.314 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Lower	Upper
117	100		
201	101.4	48.1	144.4





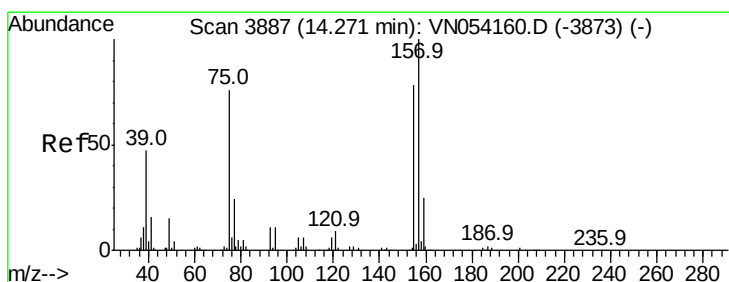
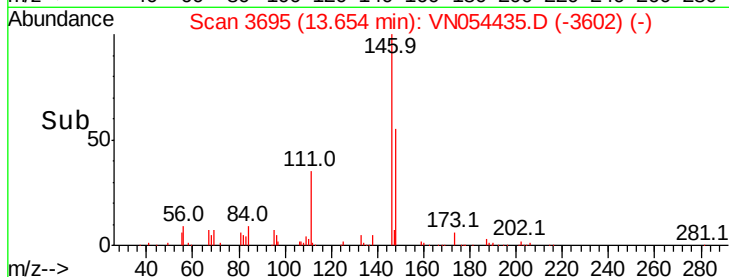
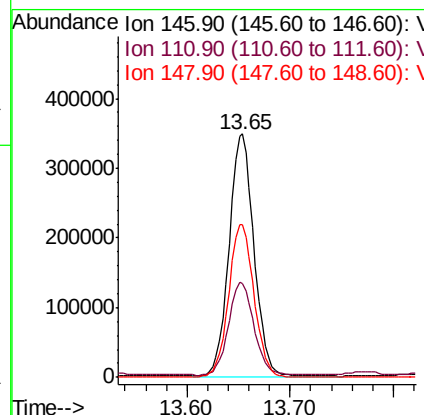
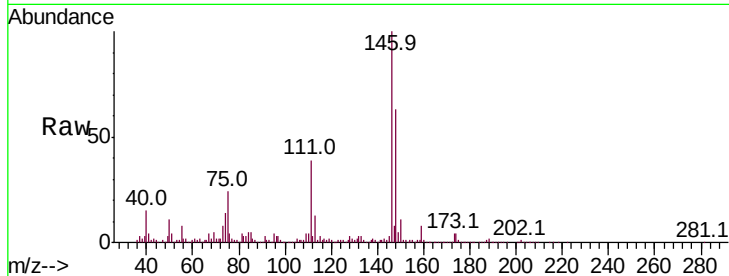
#91
 1,2-Dichlorobenzene
 Concen: 18.314 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN054435.D
 Acq: 19 Mar 2019 12:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0319MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.1	57.3
148	63.4	32.4	97.0

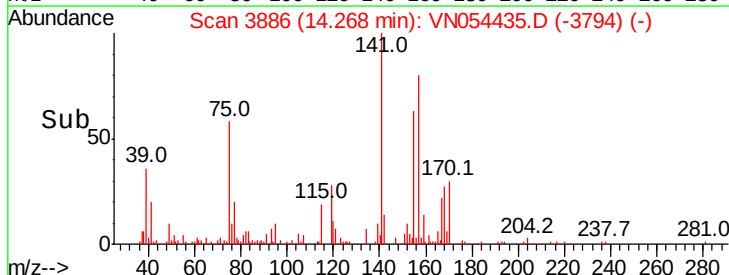
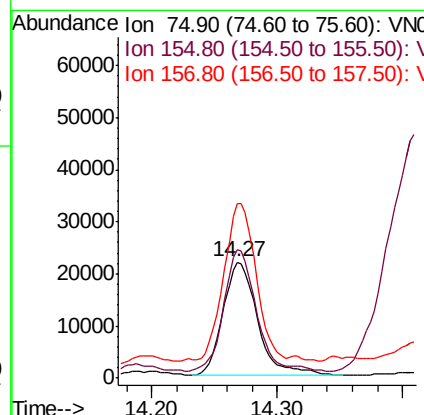
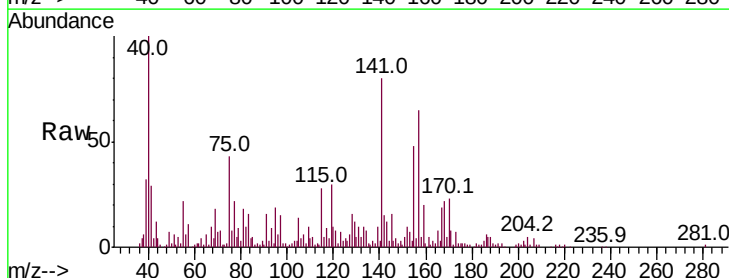
Manual Integrations
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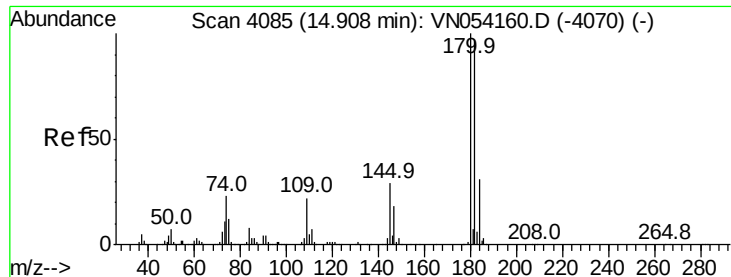
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.334 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN054435.D
 Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.4	50.1	150.3
157	126.7	63.1	189.3





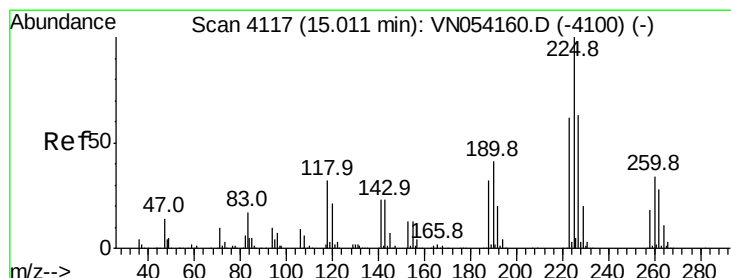
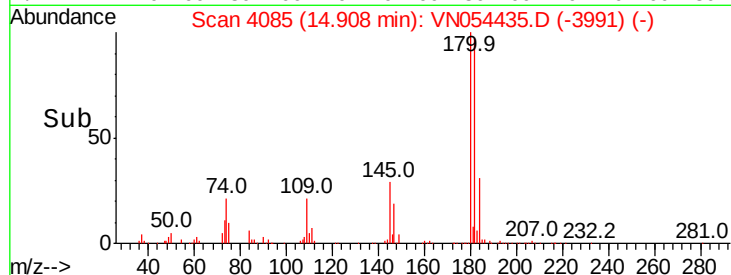
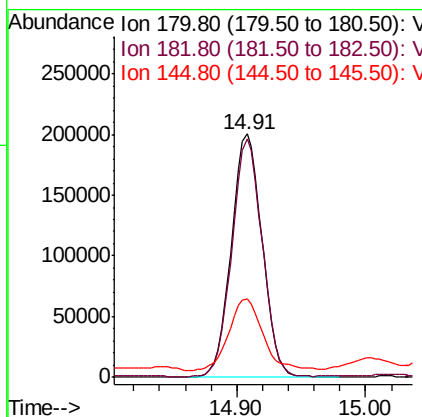
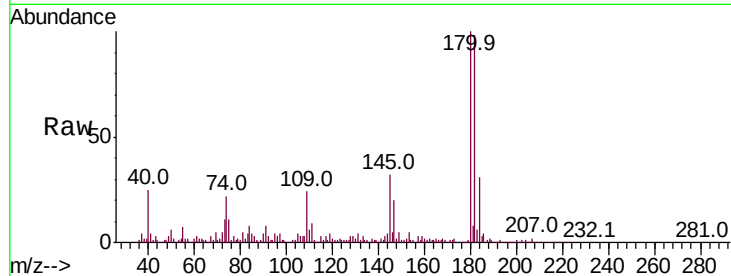
#93
 1,2,4-Trichlorobenzene
 Concen: 18.784 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054435.D
 Acq: 19 Mar 2019 12:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0319MBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.7	48.0	144.2	
145	33.4	14.2	42.8	

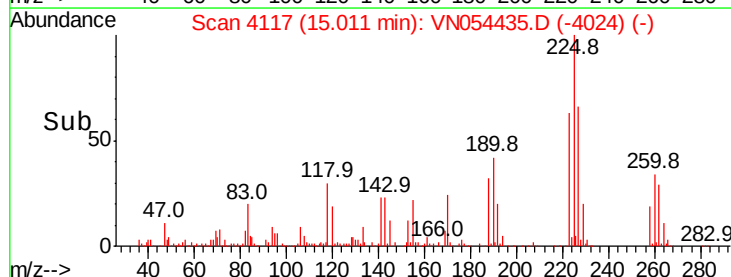
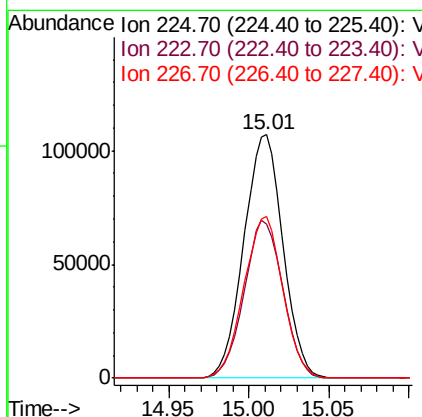
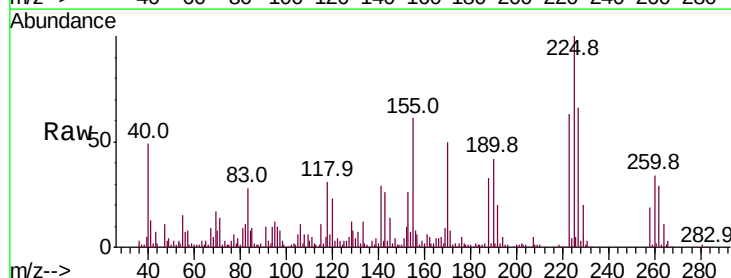
Manual Integrations
 APPROVED

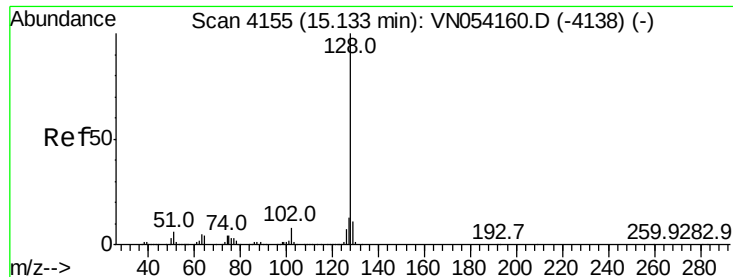
MMDadoda
 3/20/2019 12:21:36 PM



#94
 Hexachlorobutadiene
 Concen: 14.682 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN054435.D
 Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	64.3	31.1	93.5	
227	66.3	31.9	95.9	





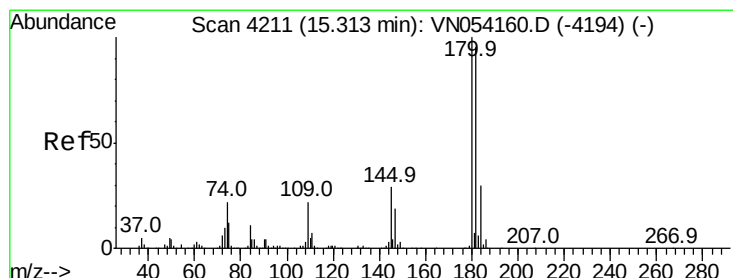
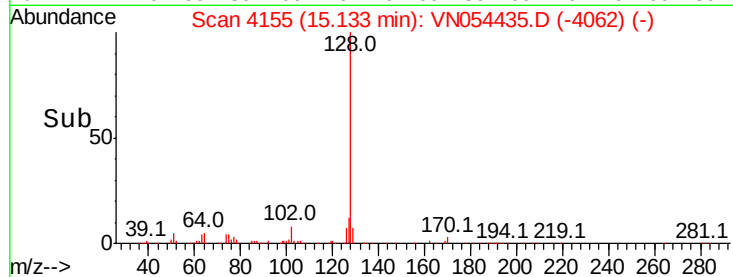
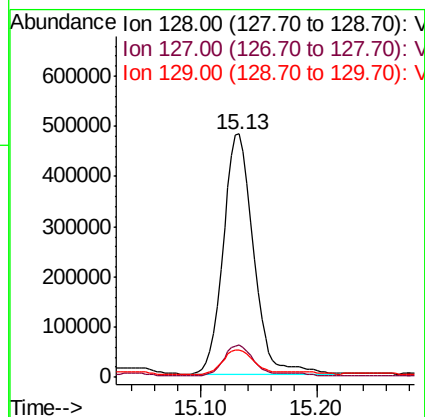
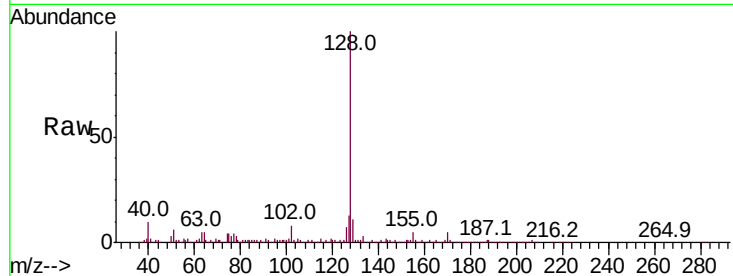
#95
Naphthalene
Concen: 23.544 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Instrument :
MSVOA_N
ClientSampleId :
VN0319MBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.1	15.1
129	11.0	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/20/2019 12:21:36 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.814 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN054435.D
Acq: 19 Mar 2019 12:41

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.5	142.6
145	41.8	14.8	44.3

