

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032219\
 Data File : VN054554.D
 Acq On : 22 Mar 2019 13:30
 Operator : JC/SP
 Sample : VN0322MBS01
 Misc : 5.00µg/10µL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322MBS01

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 3:11:01 PM

Quant Time: Mar 23 03:34:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	461633	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	780683	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	670324	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	283735	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	311426	54.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.48%	
35) Dibromofluoromethane	7.59	113	244986	48.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.42%	
50) Toluene-d8	10.09	98	921638	48.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.48%	
62) 4-Bromofluorobenzene	12.40	95	308105	47.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.78%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	100812	22.844	ug/l	99
3) Chloromethane	2.06	50	130648	21.759	ug/l	98
4) Vinyl Chloride	2.19	62	119747	19.864	ug/l	100
5) Bromomethane	2.58	94	69068	17.718	ug/l	98
6) Chloroethane	2.71	64	66022	18.259	ug/l	99
7) Trichlorofluoromethane	3.02	101	145566	19.883	ug/l	99
8) Diethyl Ether	3.41	74	52805	18.754	ug/l	74
9) 1,1,2-Trichlorotrifluoroet	3.75	101	81555	18.955	ug/l	94
10) Methyl Iodide	3.94	142	110348	17.435	ug/l	91
11) Tert butyl alcohol	4.82	59	40242	115.760	ug/l	99
12) 1,1-Dichloroethene	3.73	96	77462	17.397	ug/l #	77
13) Acrolein	3.61	56	46199	96.301	ug/l	97
14) Allyl chloride	4.32	41	179778	21.442	ug/l #	91
15) Acrylonitrile	5.00	53	209400	120.958	ug/l	99
16) Acetone	3.82	43	168803	97.781	ug/l #	82
17) Carbon Disulfide	4.04	76	203286	17.039	ug/l	99
18) Methyl Acetate	4.33	43	94854	24.651	ug/l	91
19) Methyl tert-butyl Ether	5.06	73	294986	22.701	ug/l	92
20) Methylene Chloride	4.55	84	110671	21.748	ug/l #	81
21) trans-1,2-Dichloroethene	5.03	96	99326	21.846	ug/l	87
22) Diisopropyl ether	5.96	45	385355	23.301	ug/l #	95
23) Vinyl Acetate	5.90	43	1360798	116.501	ug/l #	94
24) 1,1-Dichloroethane	5.85	63	202325	22.721	ug/l	98
25) 2-Butanone	6.85	43	264619	119.660	ug/l #	89
26) 2,2-Dichloropropane	6.82	77	126872	19.987	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	113175	20.869	ug/l	86
28) Bromochloromethane	7.19	49	98912	22.566	ug/l #	73
29) Tetrahydrofuran	7.22	42	176833	123.223	ug/l #	85
30) Chloroform	7.37	83	191973	22.091	ug/l	100
31) Cyclohexane	7.65	56	195704	21.892	ug/l	89
32) 1,1,1-Trichloroethane	7.57	97	154481	21.547	ug/l	96
36) 1,1-Dichloropropene	7.79	75	148945	20.405	ug/l	94
37) Ethyl Acetate	6.94	43	115432	22.234	ug/l	96
38) Carbon Tetrachloride	7.77	117	127551	17.982	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	165320	19.799	ug/l	89
40) Benzene	8.04	78	431081	20.652	ug/l	99
41) Methacrylonitrile	7.18	41	63192	19.959	ug/l	91
42) 1,2-Dichloroethane	8.13	62	156787	20.626	ug/l	97
43) Isopropyl Acetate	8.17	43	190350	21.710	ug/l #	94
44) Trichloroethene	8.83	130	112584	19.400	ug/l	95
45) 1,2-Dichloropropane	9.12	63	123693	22.069	ug/l	99
46) Dibromomethane	9.21	93	69903	20.906	ug/l	90
47) Bromodichloromethane	9.40	83	137571	19.824	ug/l	98
48) Methyl methacrylate	9.20	41	104285	21.914	ug/l #	86
49) 1,4-Dioxane	9.20	88	22708	426.829	ug/l #	83
51) 4-Methyl-2-Pentanone	9.99	43	562040	115.665	ug/l	94
52) Toluene	10.16	92	256587	19.987	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	122527	18.223	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	159336	20.025	ug/l	90
55) 1,1,2-Trichloroethane	10.56	97	96166	20.839	ug/l	97
56) Ethyl methacrylate	10.43	69	134946	21.787	ug/l #	86
57) 1,3-Dichloropropane	10.71	76	170895	21.303	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	261183	102.403	ug/l	90
59) 2-Hexanone	10.75	43	356225	112.233	ug/l	91
60) Dibromochloromethane	10.90	129	91975	18.730	ug/l	100
61) 1,2-Dibromoethane	11.00	107	95086	20.842	ug/l	100
64) Tetrachloroethene	10.63	164	109108	19.624	ug/l	93
65) Chlorobenzene	11.43	112	268690	19.708	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	98068	20.040	ug/l	99
67) Ethyl Benzene	11.51	91	491869	20.424	ug/l	99
68) m/p-Xylenes	11.62	106	361396	39.618	ug/l	95
69) o-Xylene	11.95	106	180898	20.306	ug/l	99
70) Styrene	11.96	104	290498	20.080	ug/l	96
71) Bromoform	12.13	173	53054	17.248	ug/l #	98
73) Isopropylbenzene	12.25	105	470099	20.561	ug/l	100
74) N-amyl acetate	12.07	43	152920	23.261	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.50	83	119196	22.838	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	98289m	21.830	ug/l	
77) Bromobenzene	12.53	156	113196	19.962	ug/l	86
78) n-propylbenzene	12.59	91	515952	20.811	ug/l	96
79) 2-Chlorotoluene	12.67	91	314553	20.345	ug/l	94
80) 1,3,5-Trimethylbenzene	12.73	105	390433	20.835	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	20186	17.647	ug/l #	73
82) 4-Chlorotoluene	12.77	91	307762	20.536	ug/l	95
83) tert-Butylbenzene	12.99	119	336832	20.650	ug/l	95
84) 1,2,4-Trimethylbenzene	13.04	105	374042	20.343	ug/l	99
85) sec-Butylbenzene	13.17	105	422913	20.799	ug/l	98
86) p-Isopropyltoluene	13.29	119	379923	20.885	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	184836	19.670	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	177226	19.384	ug/l	96
89) n-Butylbenzene	13.61	91	301642	21.206	ug/l	99
90) Hexachloroethane	13.87	117	51552	18.257	ug/l	92
91) 1,2-Dichlorobenzene	13.65	146	188314	20.690	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	16081	21.006	ug/l	87

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ClientSampleId :
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Manual Integrations
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QLast Update : Fri Mar 22 02:09:07 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	94698	20.871	ug/l	99
94) Hexachlorobutadiene	15.01	225	59959	22.139	ug/l	99
95) Naphthalene	15.13	128	224096	22.142	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	97327	21.552	ug/l	99

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

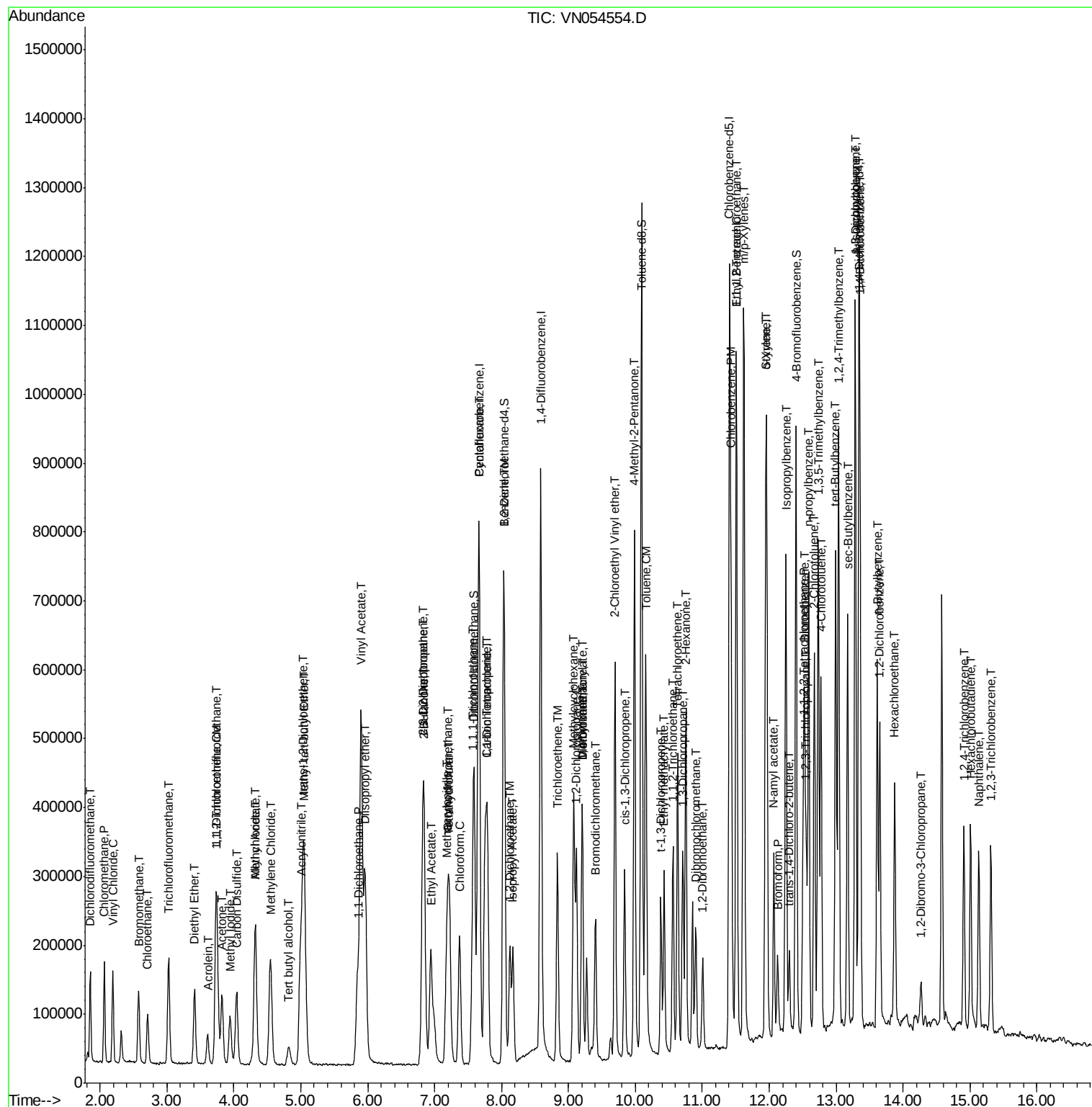
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 Acq On : 22 Mar 2019 13:30
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 Sample : VN0322MBS01
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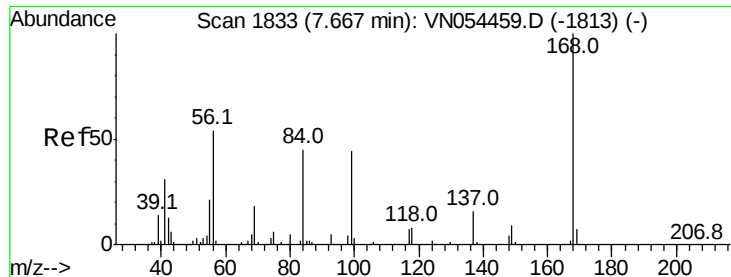
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322MBS01

Manual Integrations
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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: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBS01

Tot Ion:168 Resp: 461633

Ion Ratio Lower Upper

168 100

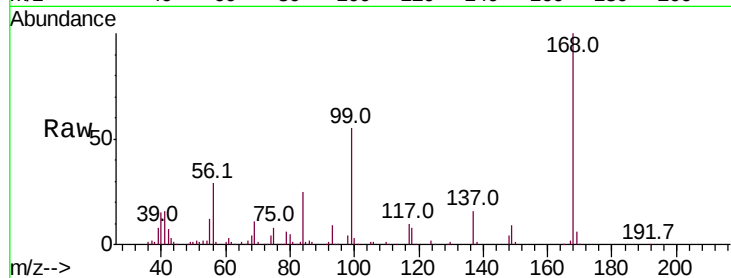
99 53.9 37.1 55.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

200000

150000

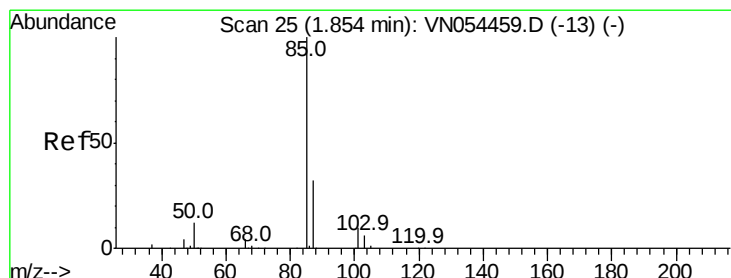
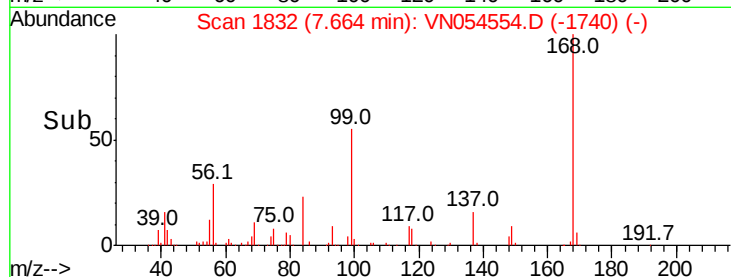
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50000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#2

Dichlorodifluoromethane

Concen: 22.844 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN054554.D

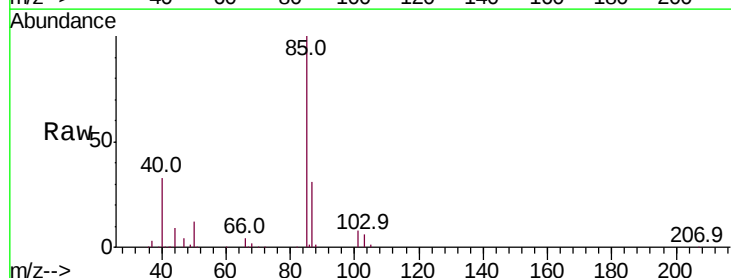
Acq: 22 Mar 2019 13:30

Tgt Ion: 85 Resp: 100812

Ion Ratio Lower Upper

85 100

87 31.2 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.85

80000

60000

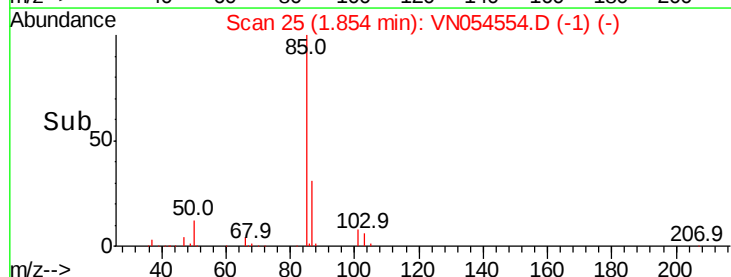
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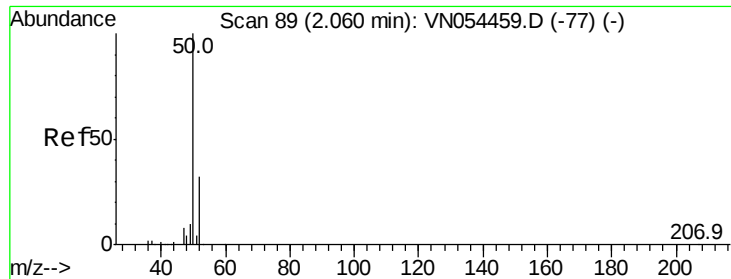
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 21.759 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBS01

Tot Ion: 50 Resp: 130648

Ion Ratio Lower Upper

50 100

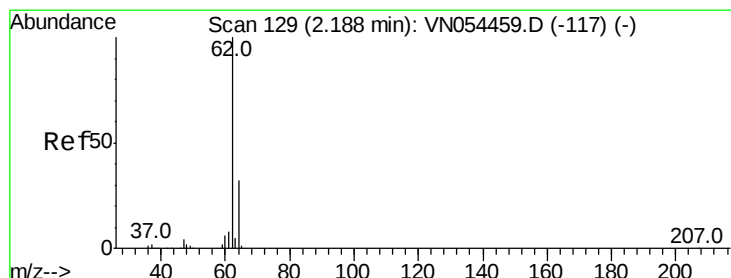
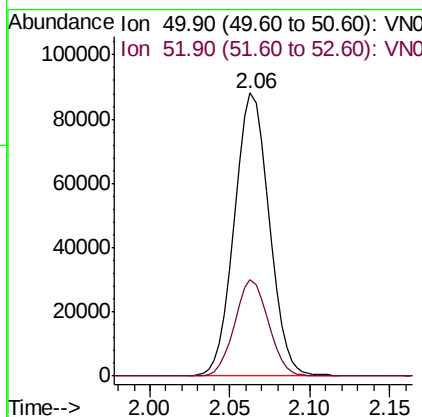
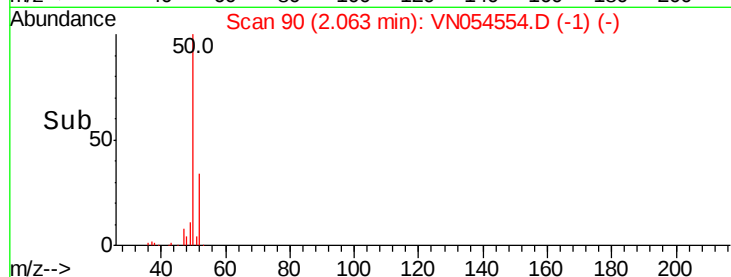
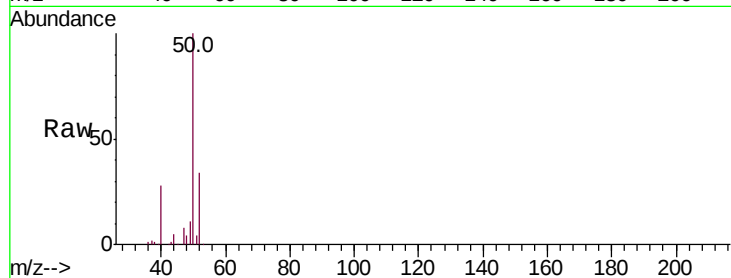
52 33.9 26.4 39.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.864 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054554.D

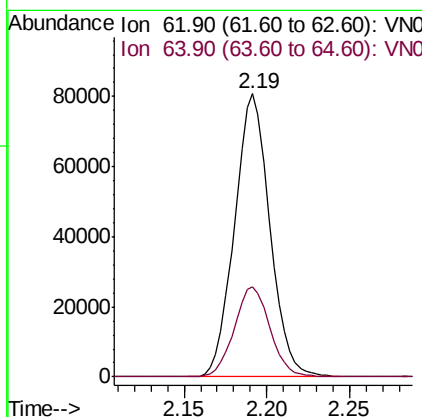
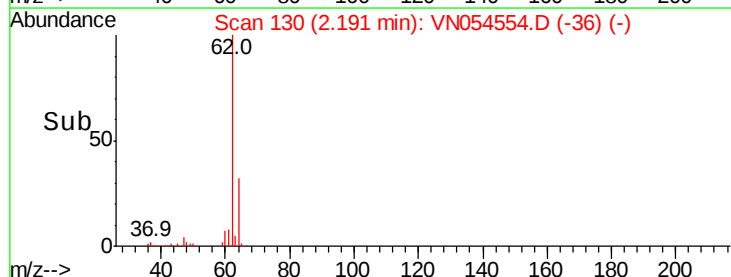
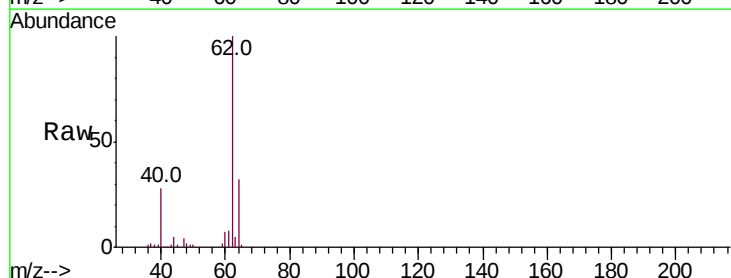
Acq: 22 Mar 2019 13:30

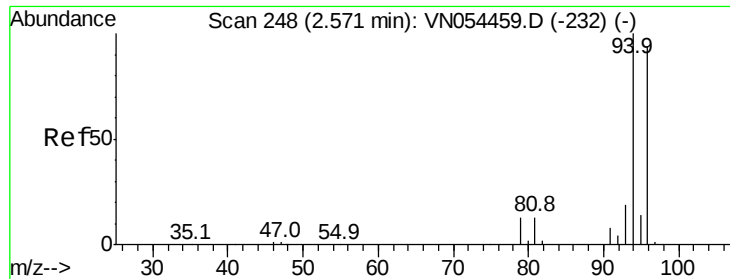
Tgt Ion: 62 Resp: 119747

Ion Ratio Lower Upper

62 100

64 31.9 25.5 38.3





#5

Bromomethane

Concen: 17.718 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBS01

Tot Ion: 94 Resp: 69068

Ion Ratio Lower Upper

94 100

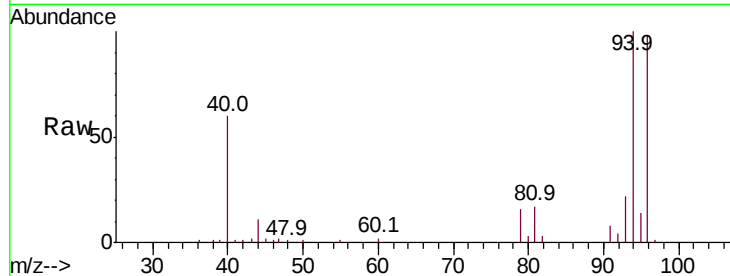
96 98.2 77.0 115.4

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.58

40000

30000

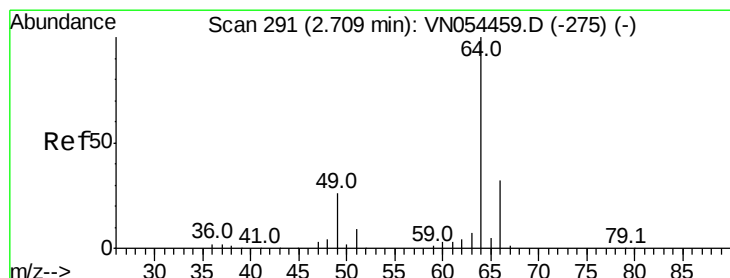
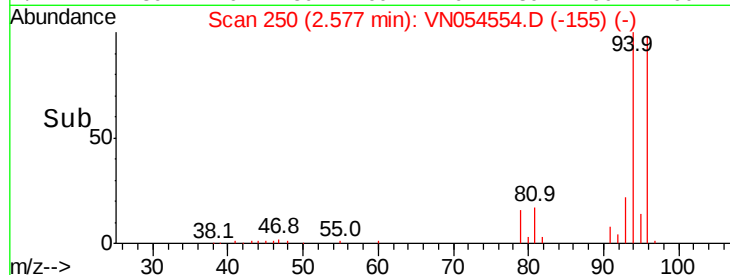
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Time-->

2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 18.259 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN054554.D

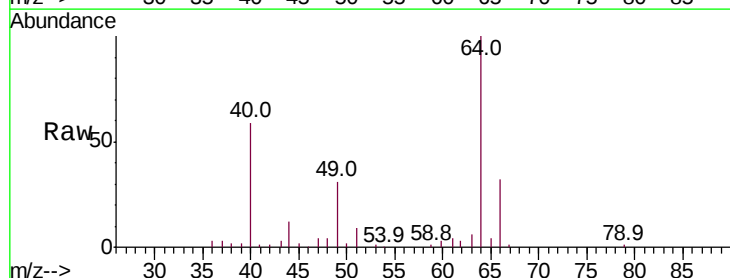
Acq: 22 Mar 2019 13:30

Tgt Ion: 64 Resp: 66022

Ion Ratio Lower Upper

64 100

66 31.8 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.71

40000

30000

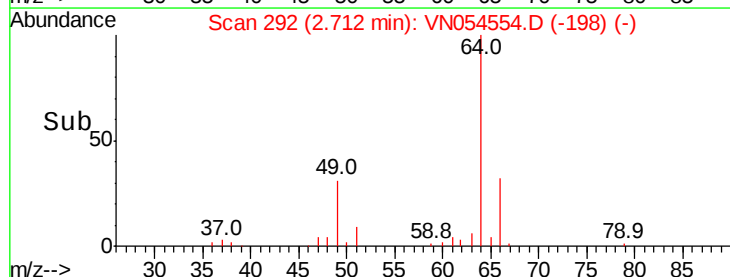
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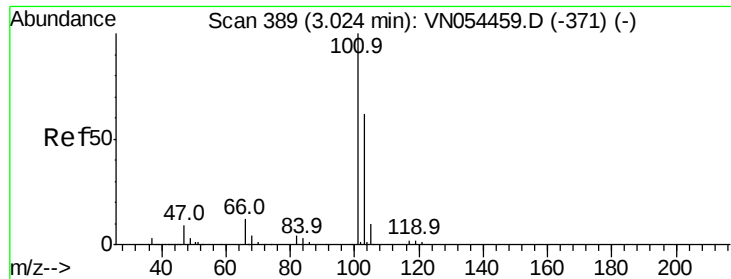
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Time-->

2.65 2.70 2.75 2.80





#7

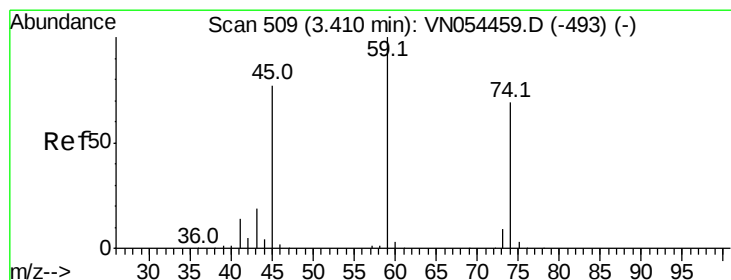
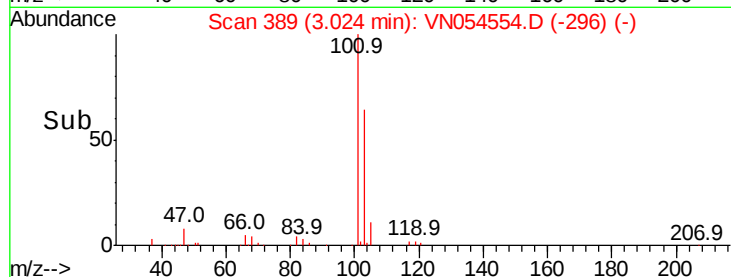
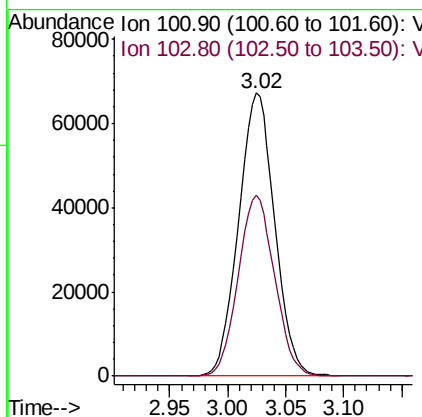
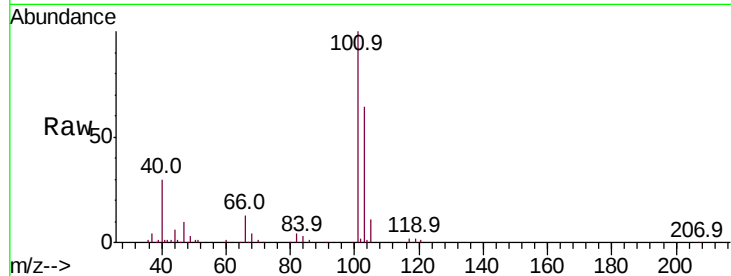
Trichlorofluoromethane
Concen: 19.883 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Instrument :
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ClientSampleId :
VN0322MBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.4	77.2

Manual Integrations
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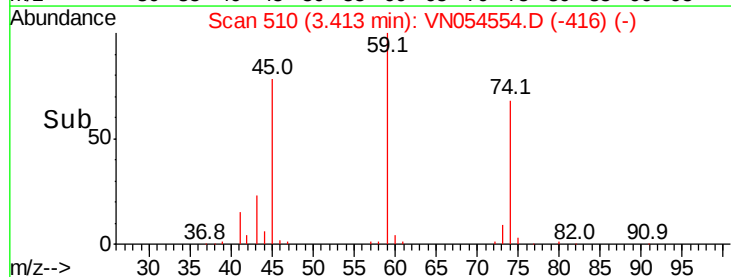
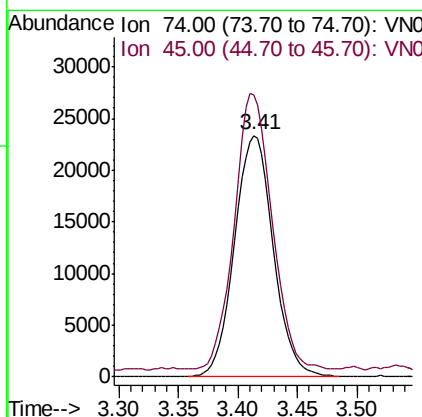
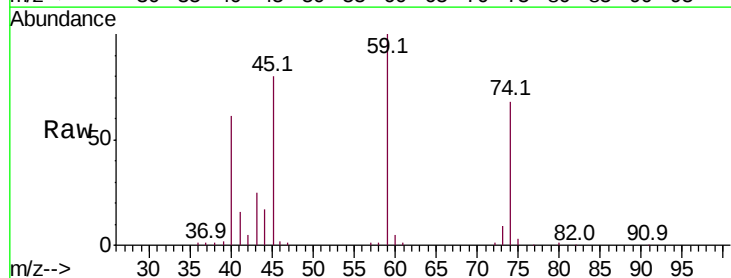
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3/25/2019 3:11:01 PM

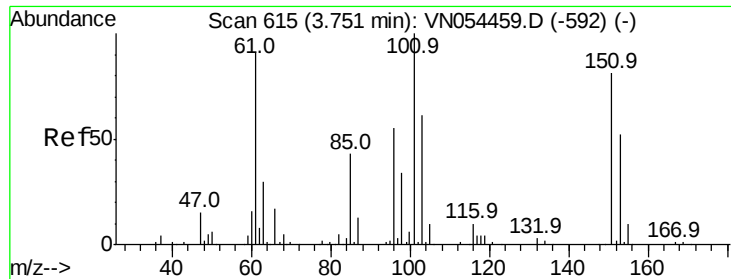


#8

Diethyl Ether
Concen: 18.754 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Tgt Ion	Ratio	Lower	Upper
74	100		
45	110.3	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.955 ug/l

RT: 3.75 min Scan# 615

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

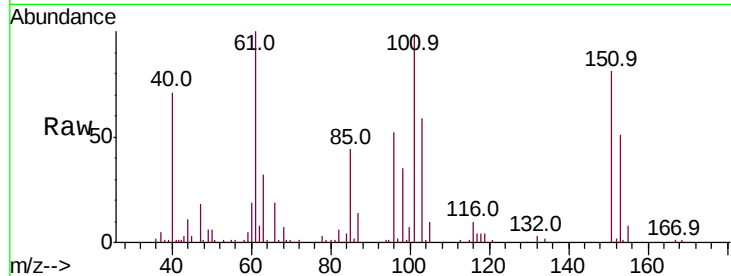
ClientSampleId :

VN0322MBS01

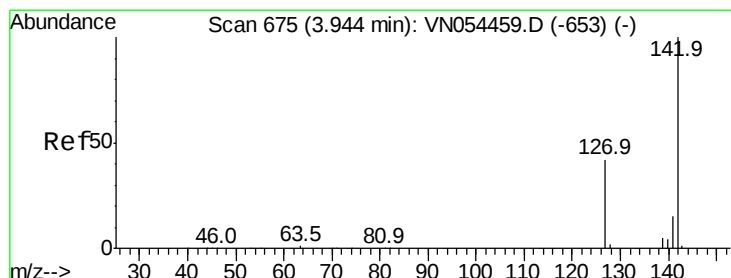
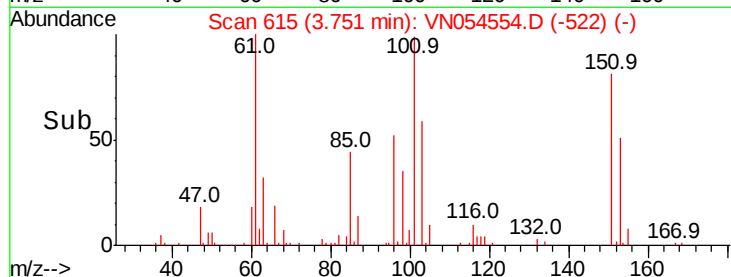
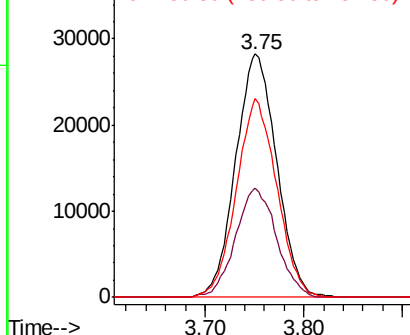
Tot Ion:	101	Resp:	81555
Ion Ratio	Lower	Upper	
101	100		
85	44.8	32.4	48.6
151	80.1	68.2	102.2

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



#10

Methyl Iodide

Concen: 17.435 ug/l

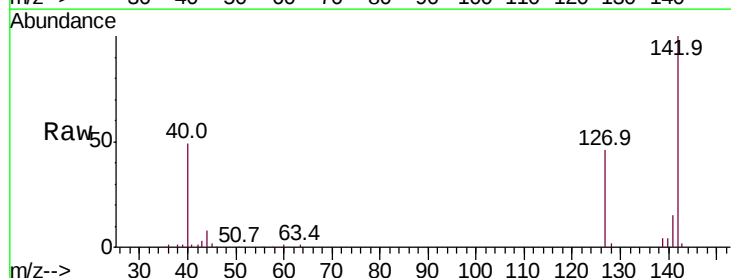
RT: 3.94 min Scan# 675

Delta R.T. 0.00 min

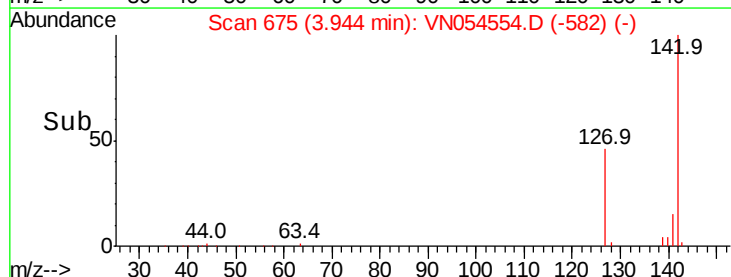
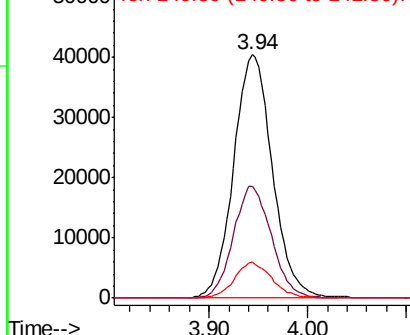
Lab File: VN054554.D

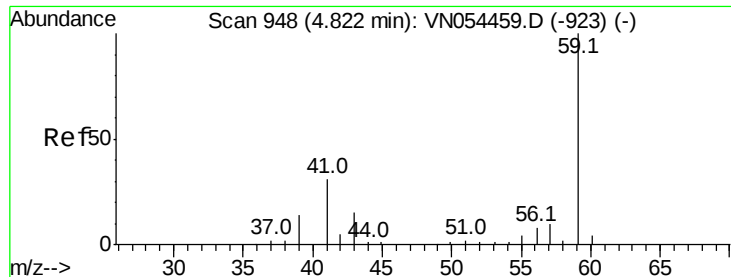
Acq: 22 Mar 2019 13:30

Tgt Ion:	142	Resp:	110348
Ion Ratio	Lower	Upper	
142	100		
127	45.1	30.3	45.5
141	14.3	11.2	16.8



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





#11

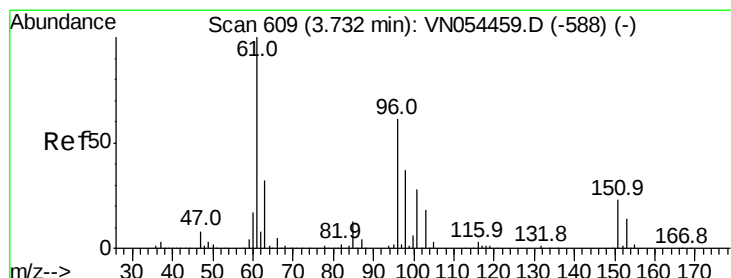
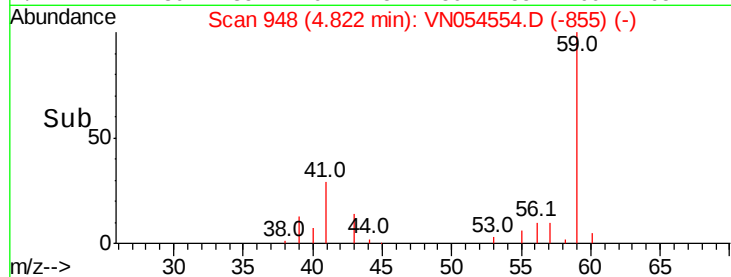
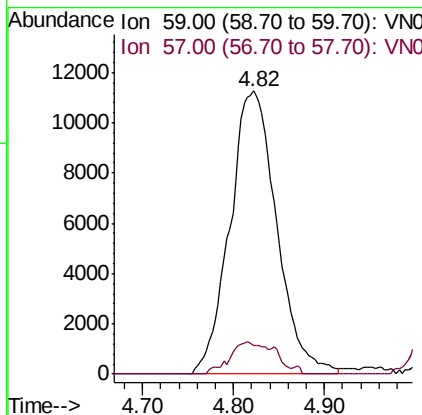
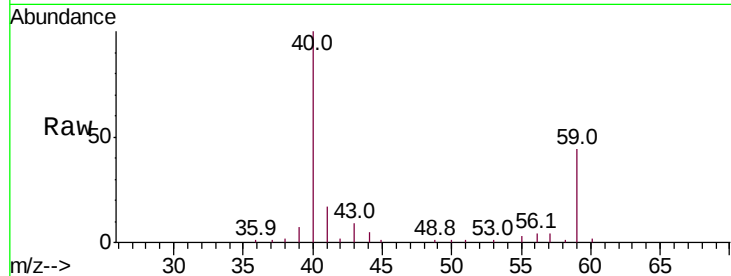
Tert butyl alcohol
Concen: 115.760 ug/l
RT: 4.82 min Scan# 948
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VN0322MBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.8	9.0	13.6

Manual Integrations
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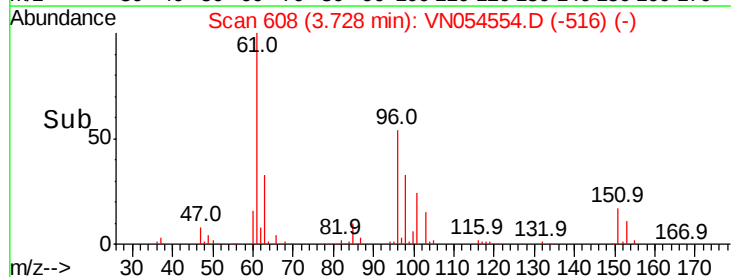
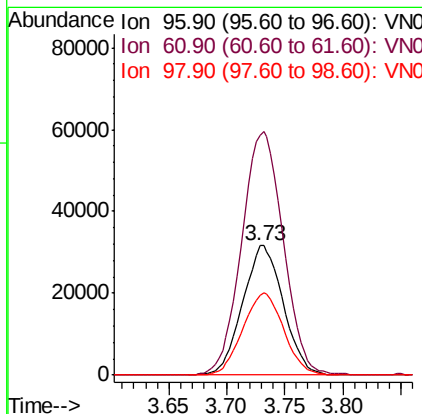
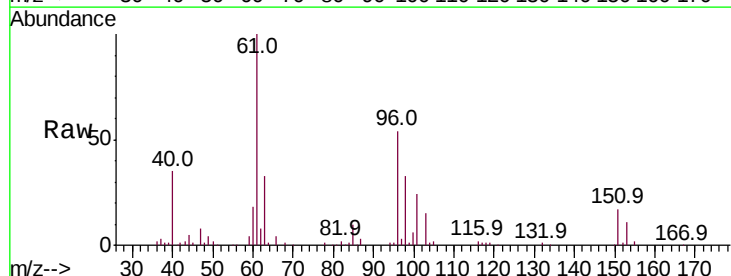
MMDadoda
3/25/2019 3:11:01 PM

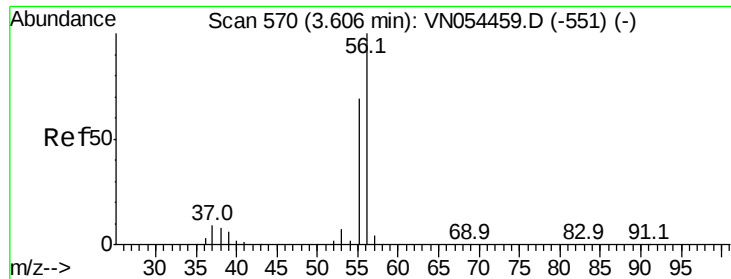


#12

1,1-Dichloroethene
Concen: 17.397 ug/l
RT: 3.73 min Scan# 608
Delta R.T. -0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	186.0	116.5	174.7#
98	62.2	51.0	76.4





#13

Acrolein

Concen: 96.301 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBS01

Tot Ion: 56 Resp: 46199

Ion Ratio Lower Upper

56 100

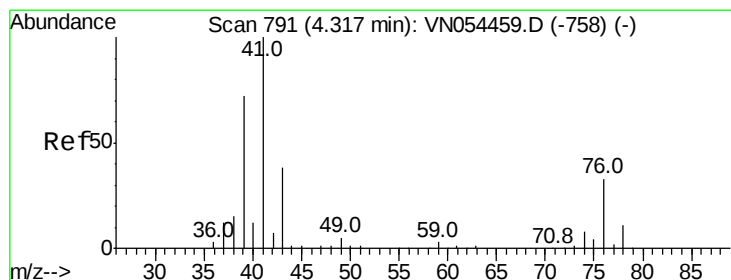
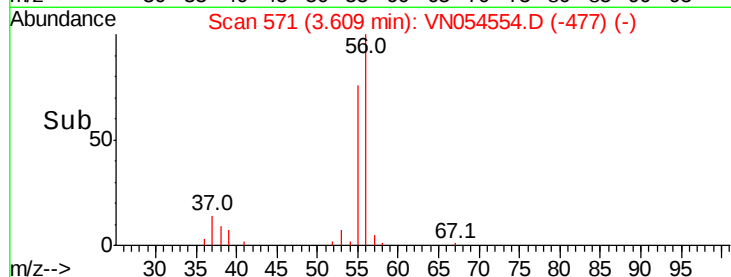
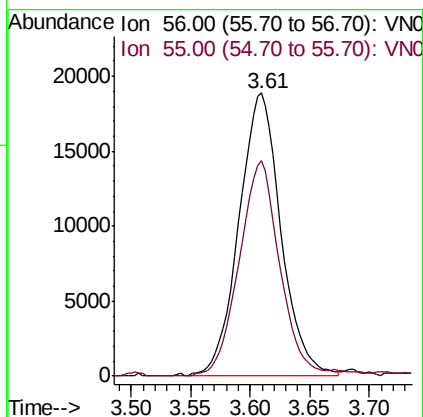
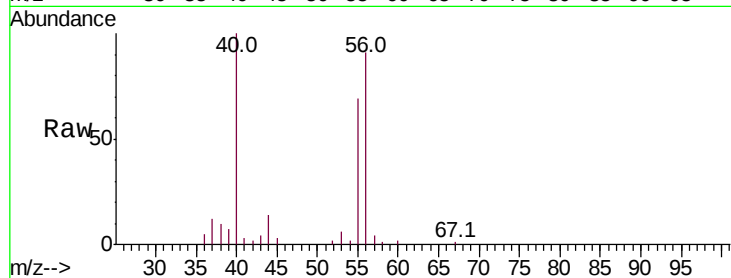
55 73.0 56.7 85.1

Manual Integrations

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#14

Allyl chloride

Concen: 21.442 ug/l

RT: 4.32 min Scan# 792

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

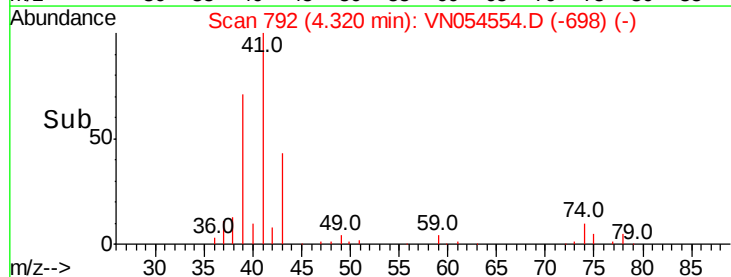
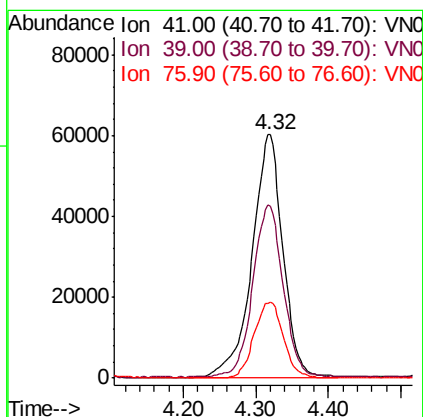
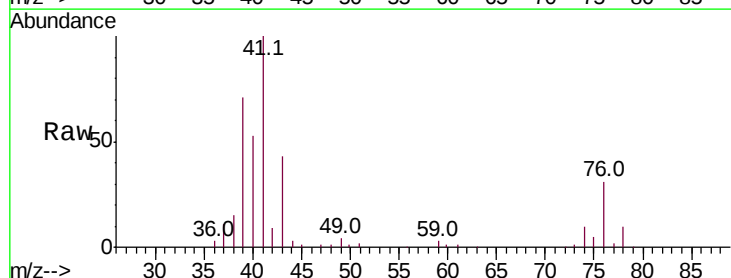
Tgt Ion: 41 Resp: 179778

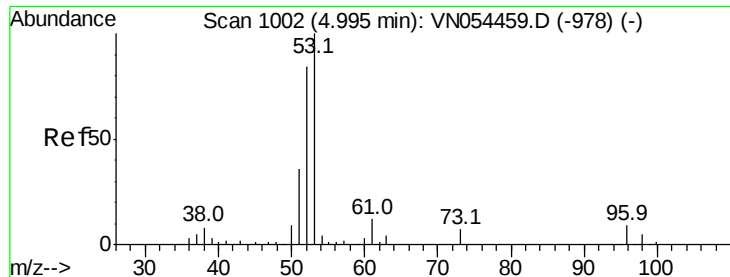
Ion Ratio Lower Upper

41 100

39 68.4 58.2 87.4

76 29.4 31.7 47.5#





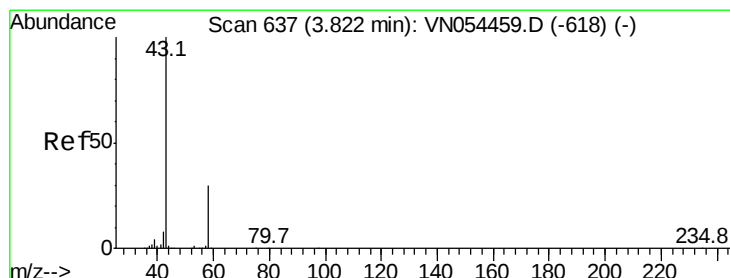
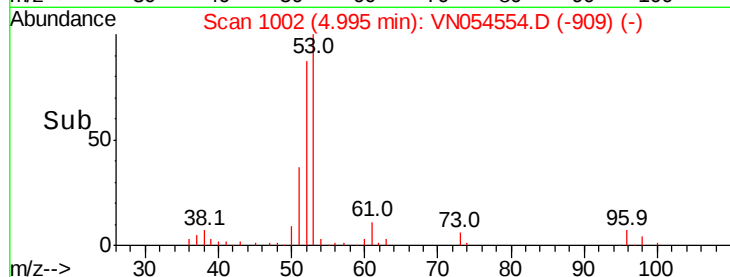
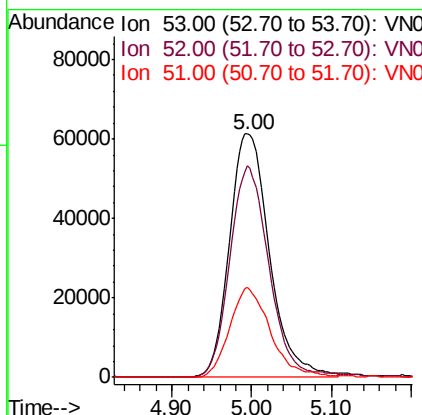
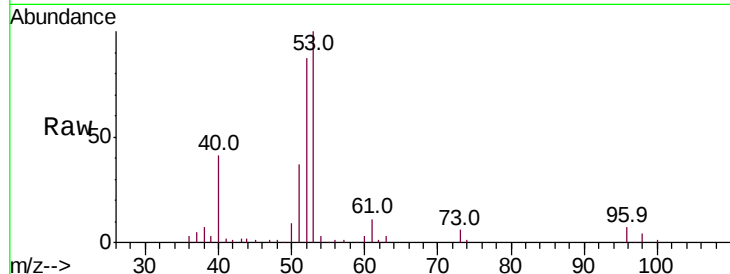
#15
 Acrylonitrile
 Concen: 120.958 ug/l
 RT: 5.00 min Scan# 1002
 Delta R.T. 0.00 min
 Lab File: VN054554.D
 Acq: 22 Mar 2019 13:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322MBS01

Tot Ion	Ratio	Lower	Upper
53	100		
52	84.7	66.4	99.6
51	37.4	29.6	44.4

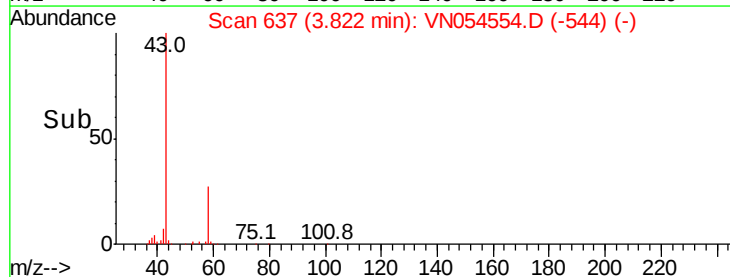
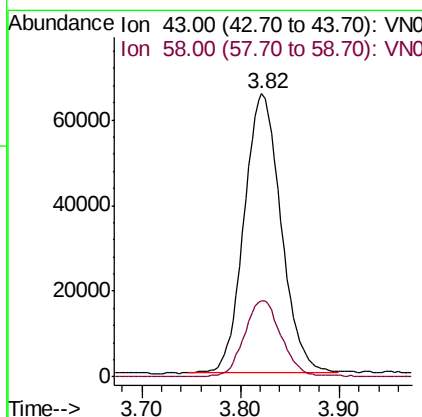
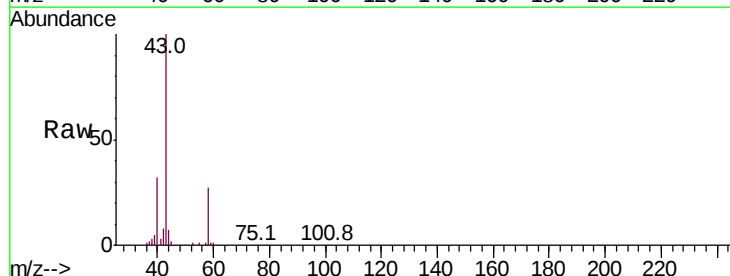
Manual Integrations
 APPROVED

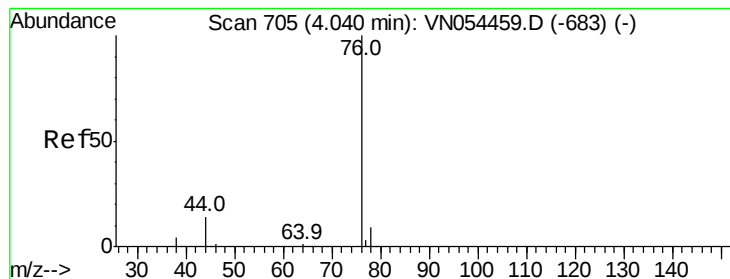
MMDadoda
 3/25/2019 3:11:01 PM



#16
 Acetone
 Concen: 97.781 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VN054554.D
 Acq: 22 Mar 2019 13:30

Tgt Ion	Ratio	Lower	Upper
43	100		
58	26.8	29.9	44.9#





#17

Carbon Disulfide

Concen: 17.039 ug/l

RT: 4.04 min Scan# 705

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBS01

Tot Ion: 76 Resp: 203286

Ion Ratio Lower Upper

76 100

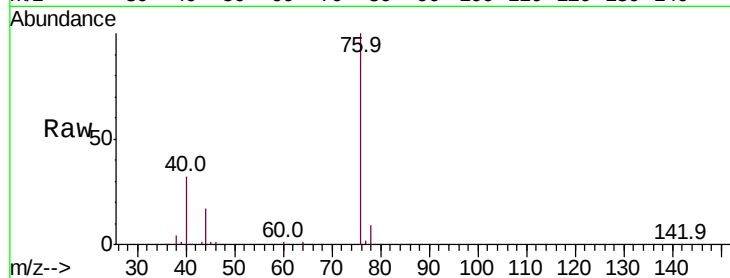
78 8.9 7.5 11.3

Manual Integrations

APPROVED

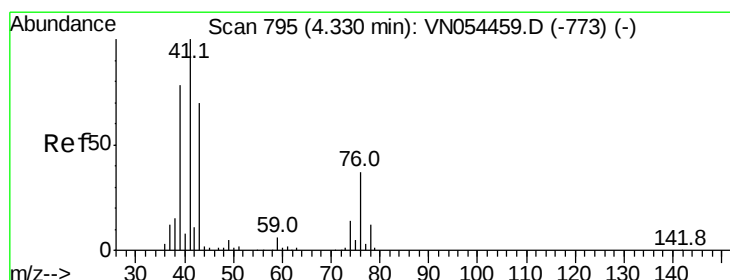
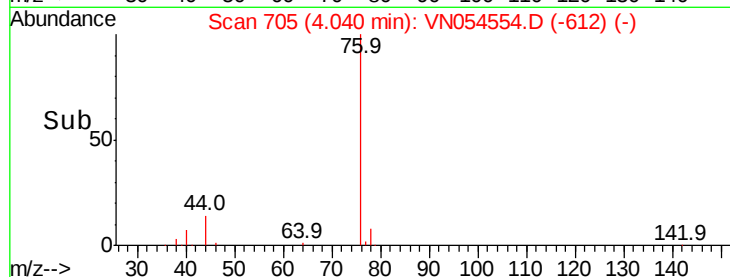
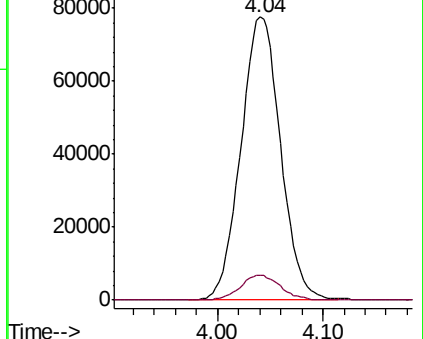
MMDadoda

3/25/2019 3:11:01 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 24.651 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN054554.D

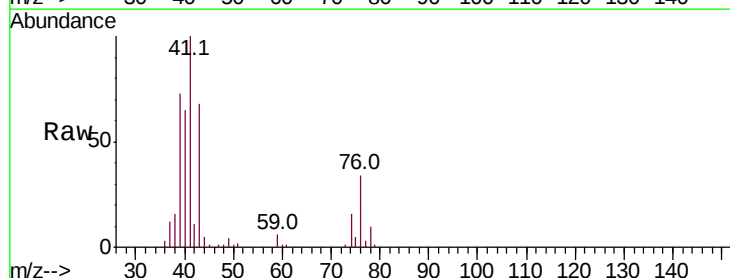
Acq: 22 Mar 2019 13:30

Tgt Ion: 43 Resp: 94854

Ion Ratio Lower Upper

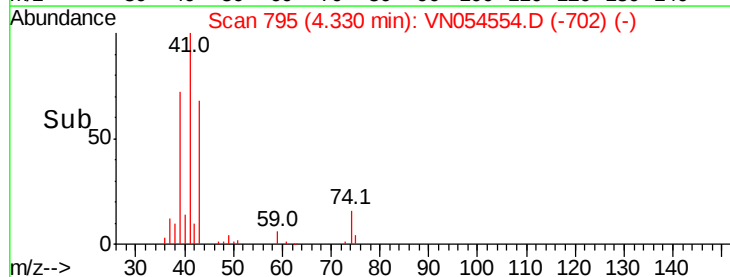
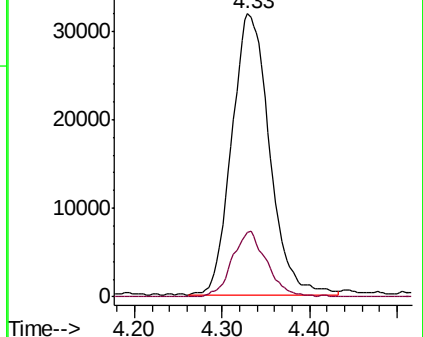
43 100

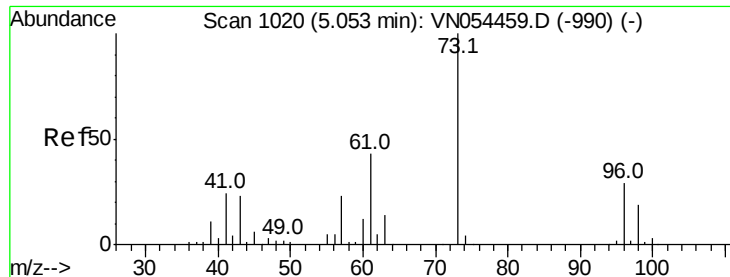
74 21.3 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





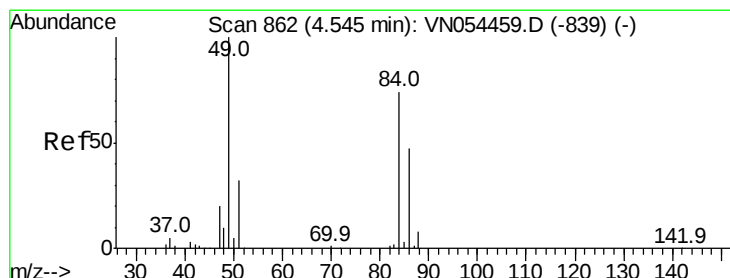
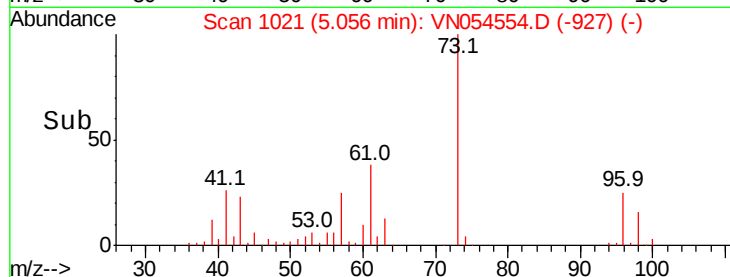
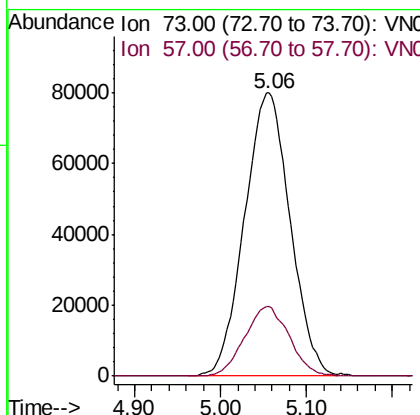
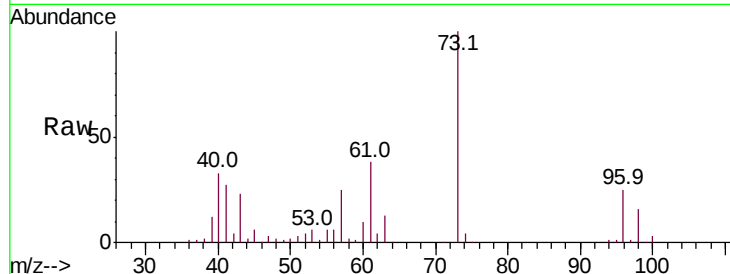
#19
Methvl tert-butvl Ether
Concen: 22.701 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VN0322MBS01

Tot Ion: 73 Resp: 294986
Ion Ratio Lower Upper
73 100
57 24.7 16.8 25.2

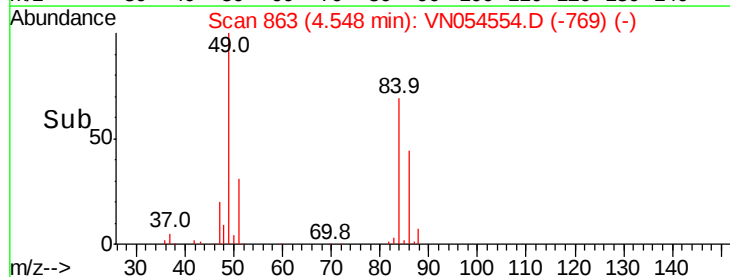
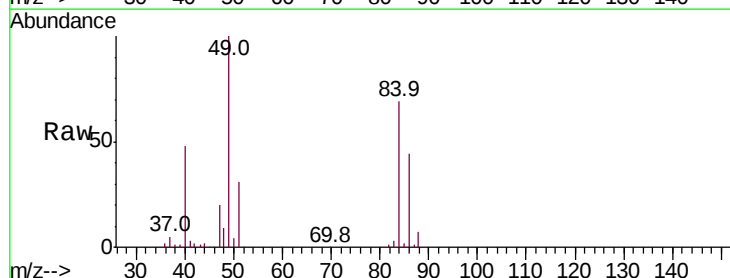
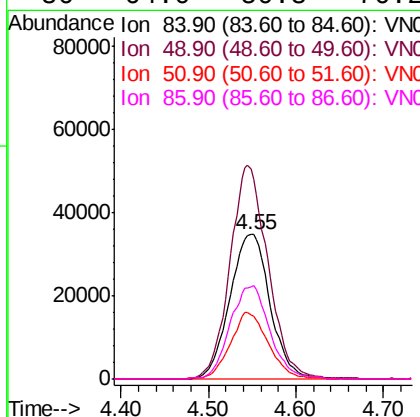
Manual Integrations
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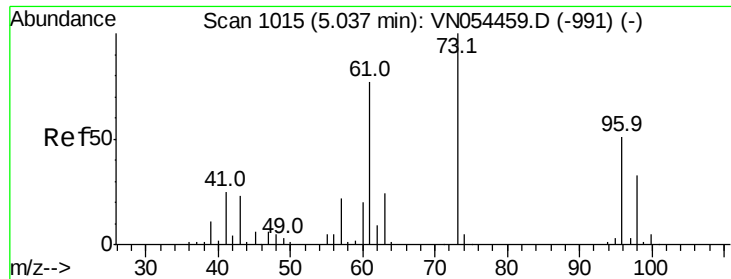
MMDadoda
3/25/2019 3:11:01 PM



#20
Methylene Chloride
Concen: 21.748 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Tgt Ion: 84 Resp: 110671
Ion Ratio Lower Upper
84 100
49 145.0 89.7 134.5#
51 44.6 28.2 42.4#
86 64.0 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 21.846 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBS01

Tot Ion: 96 Resp: 99326

Ion Ratio Lower Upper

96 100

61 149.2 102.8 154.2

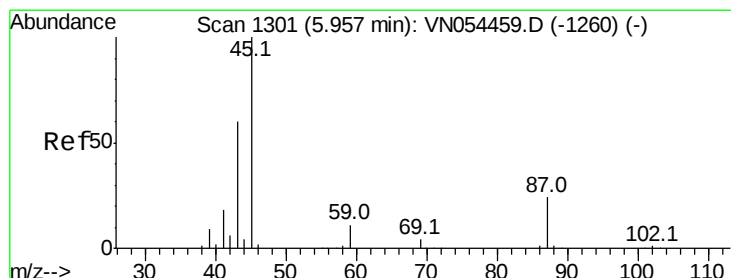
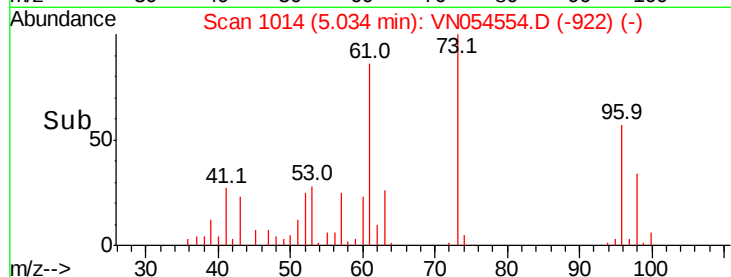
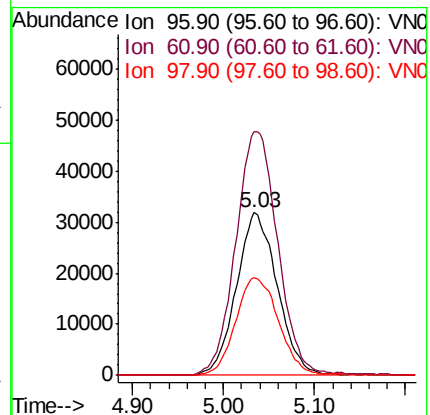
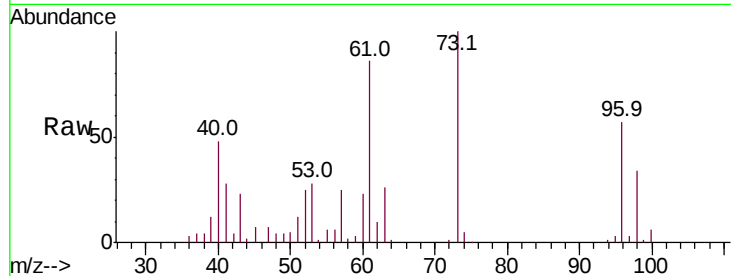
98 59.9 50.0 75.0

Manual Integrations

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#22

Diisopropyl ether

Concen: 23.301 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Tgt Ion: 45 Resp: 385355

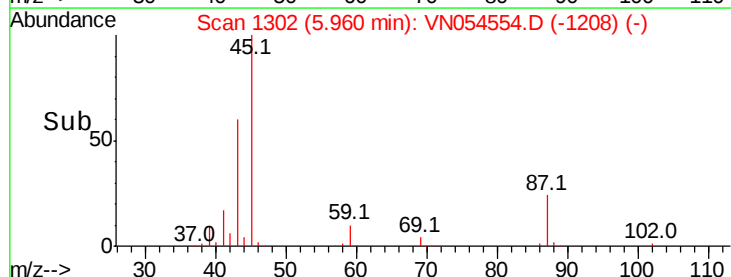
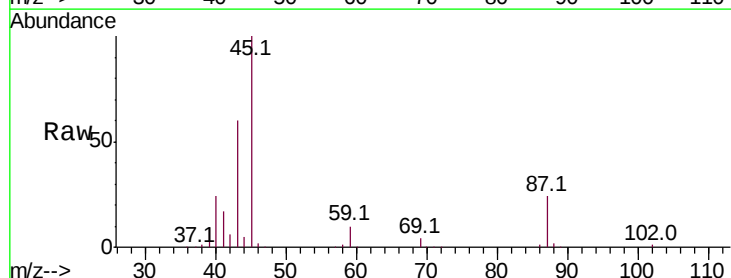
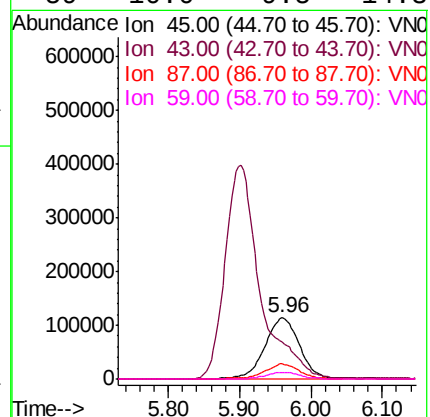
Ion Ratio Lower Upper

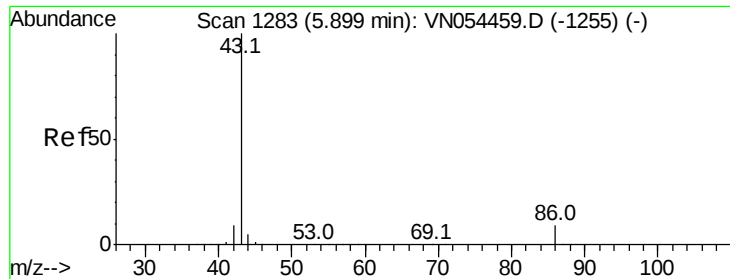
45 100

43 59.5 48.2 72.2

87 24.0 24.9 37.3#

59 10.0 9.5 14.3





#23

Vinyl Acetate

Concen: 116.501 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBS01

Tot Ion: 43 Resp: 1360798

Ion Ratio Lower Upper

43 100

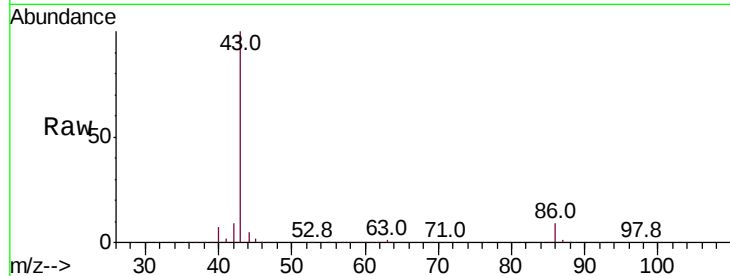
86 9.0 9.1 13.7#

Manual Integrations

APPROVED

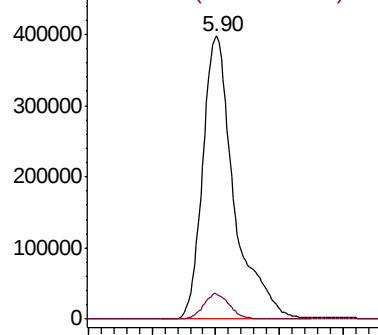
MMDadoda

3/25/2019 3:11:01 PM

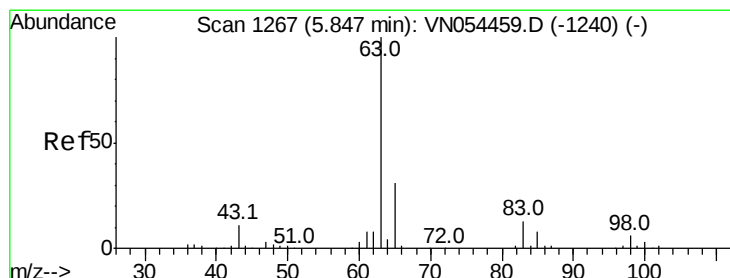
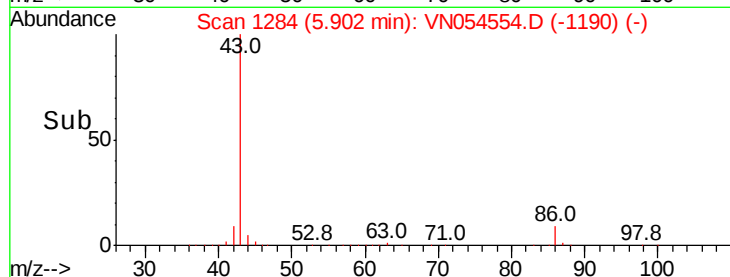


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



Time--> 5.70 5.80 5.90 6.00 6.10



#24

1,1-Dichloroethane

Concen: 22.721 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

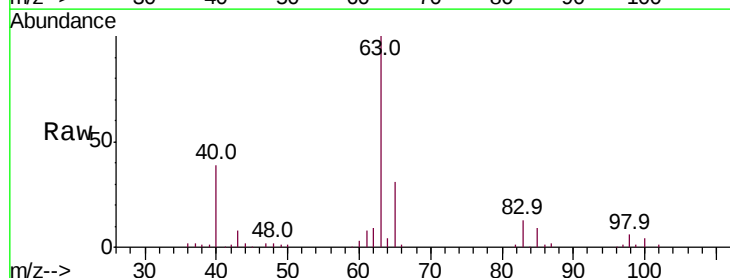
Tgt Ion: 63 Resp: 202325

Ion Ratio Lower Upper

63 100

98 6.1 3.5 10.5

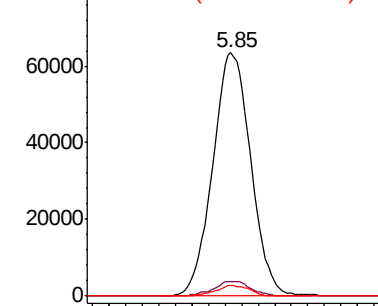
100 4.4 2.0 6.0



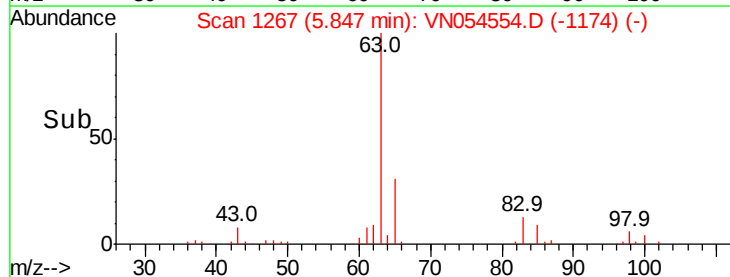
Abundance Ion 62.90 (62.60 to 63.60): VN0

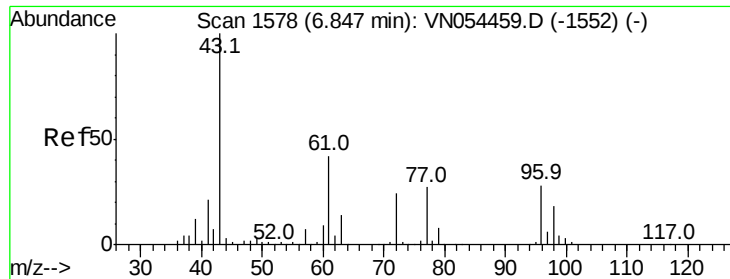
Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



Time--> 5.70 5.80 5.90 6.00





#25

2-Butanone

Concen: 119.660 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampled :

VN0322MBS01

Tot Ion: 43 Resp: 264619

Ion Ratio Lower Upper

43 100

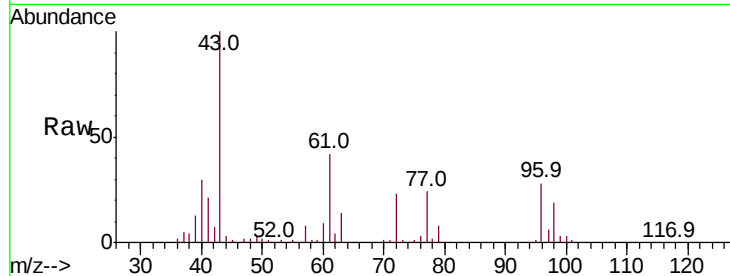
72 22.9 23.0 34.6#

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.85

100000

80000

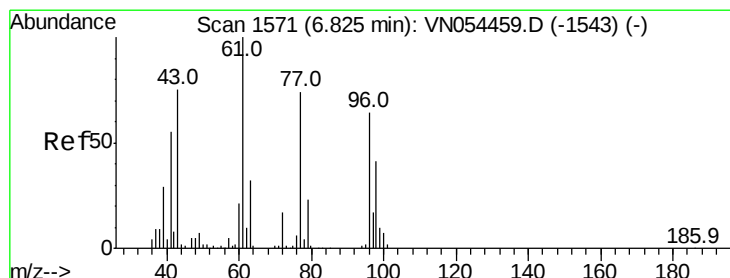
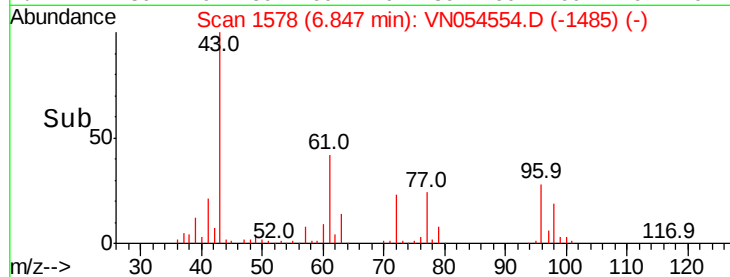
60000

40000

20000

0

Time-->



#26

2,2-Dichloropropane

Concen: 19.987 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN054554.D

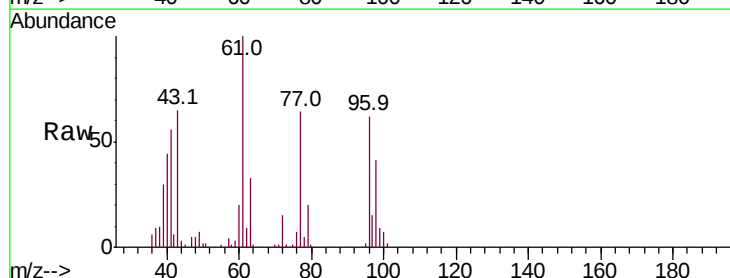
Acq: 22 Mar 2019 13:30

Tgt Ion: 77 Resp: 126872

Ion Ratio Lower Upper

77 100

97 23.3 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.82

40000

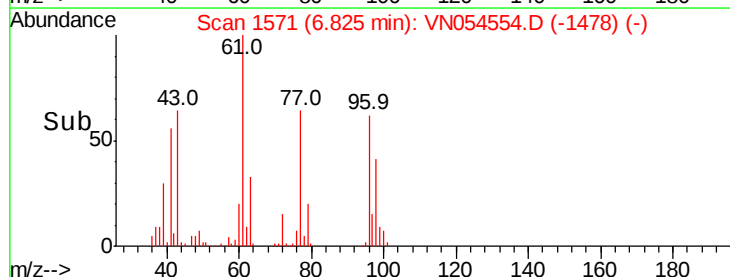
30000

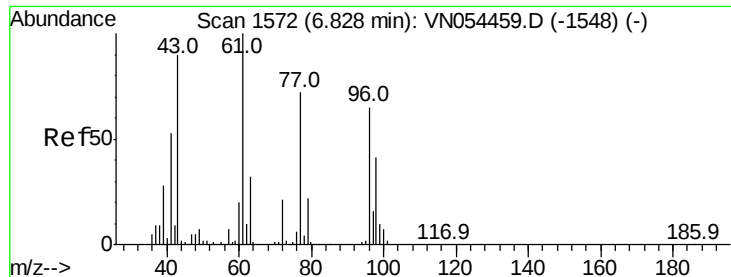
20000

10000

0

Time-->





#27

cis-1,2-Dichloroethene

Concen: 20.869 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

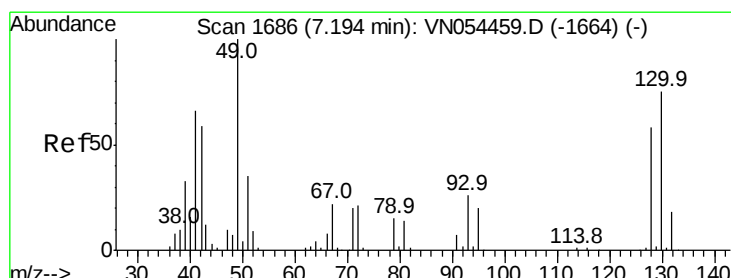
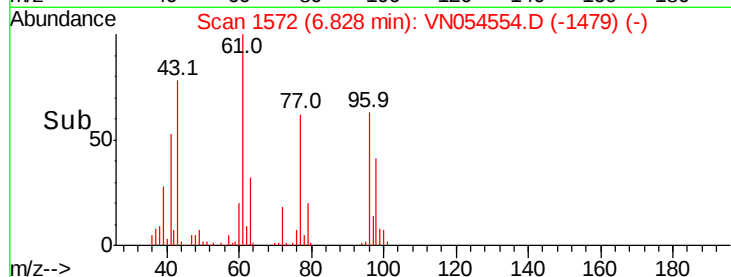
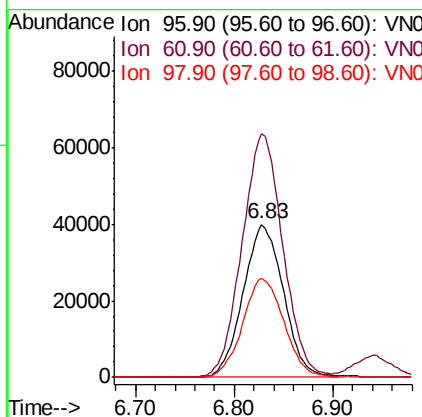
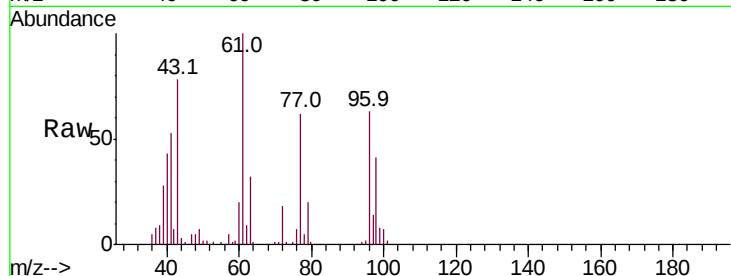
ClientSampleId :

VN0322MBS01

Tot Ion:	96	Resp:	113175
Ion	Ratio	Lower	Upper
96	100		
61	160.9	0.0	273.0
98	66.6	0.0	130.6

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#28

Bromochloromethane

Concen: 22.566 ug/l

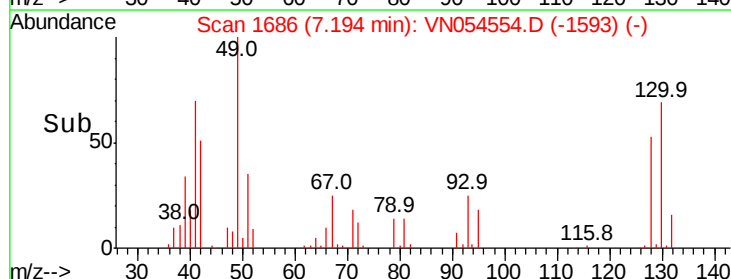
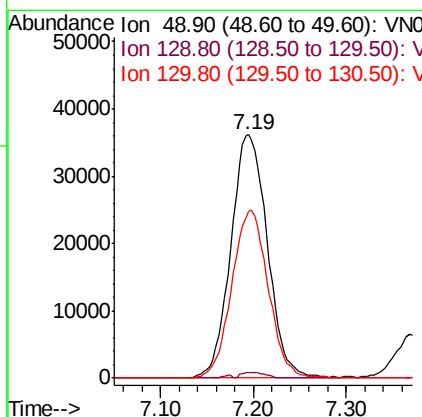
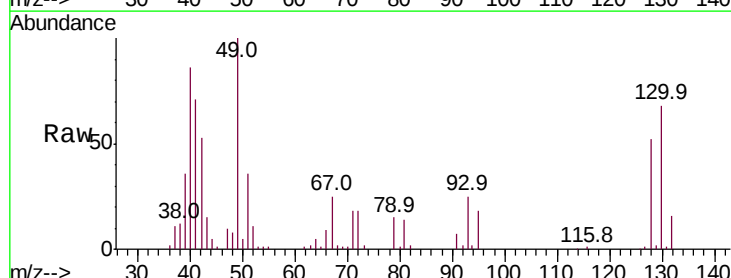
RT: 7.19 min Scan# 1686

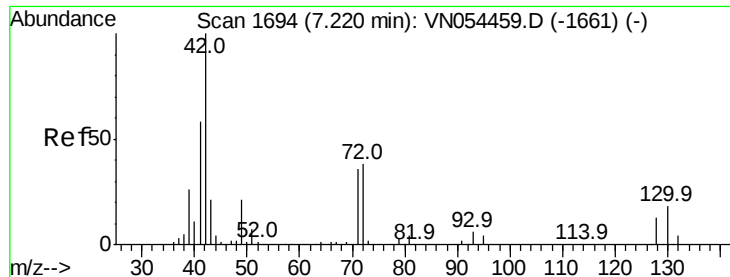
Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Tgt Ion:	49	Resp:	98912
Ion	Ratio	Lower	Upper
49	100		
129	0.7	0.0	4.6
130	68.5	76.7	115.1#





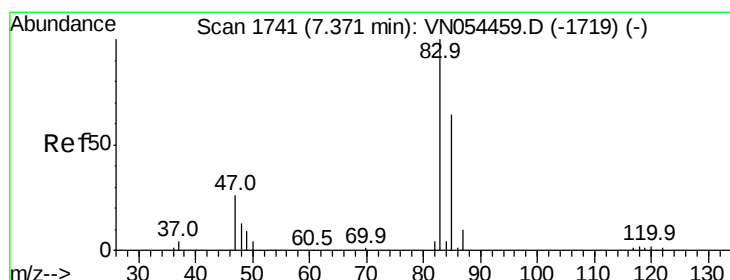
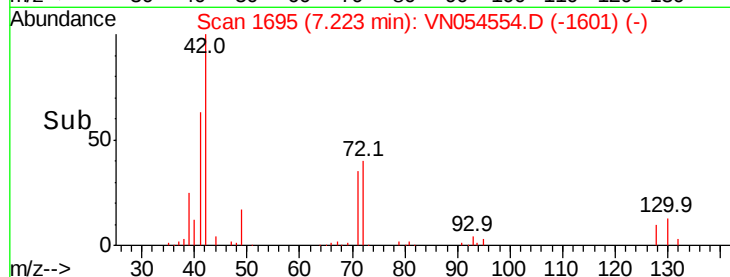
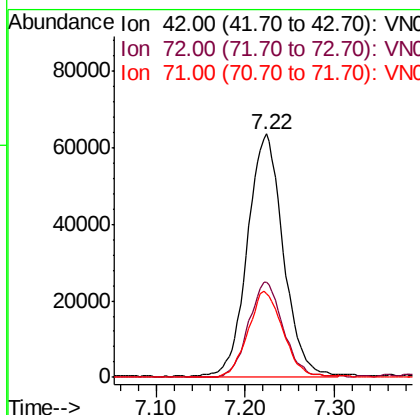
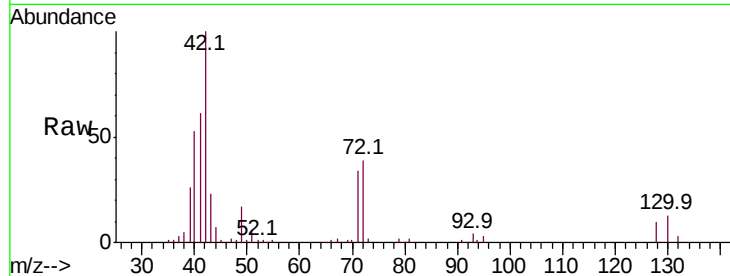
#29
Tetrahydrofuran
Concen: 123.223 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VN0322MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.0	37.8	56.6
71	34.7	36.2	54.2#

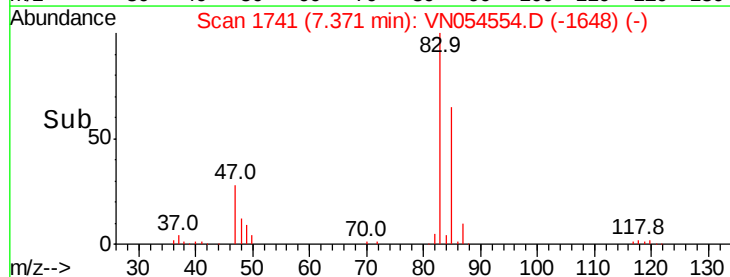
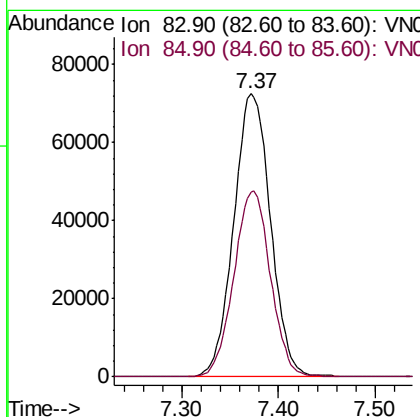
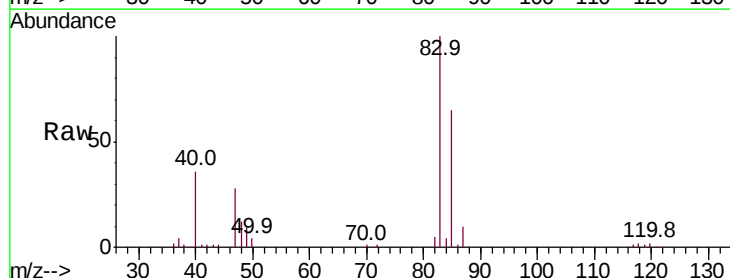
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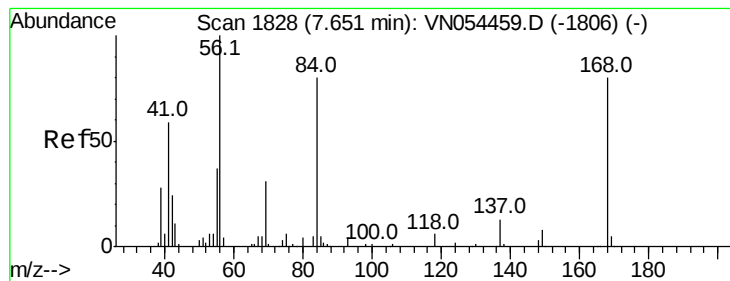
MMDadoda
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#30
Chloroform
Concen: 22.091 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.2	78.4





#31

Cyclohexane

Concen: 21.892 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBS01

Tot Ion: 56 Resp: 195704

Ion Ratio Lower Upper

56 100

69 34.7 27.8 41.6

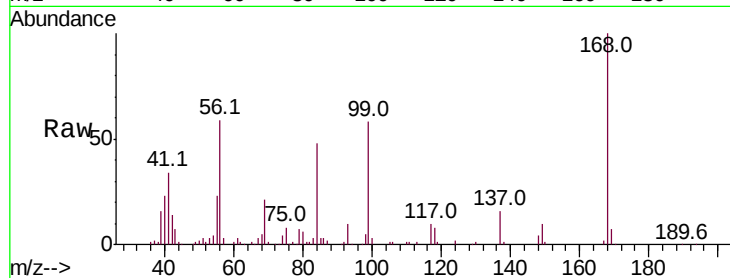
84 79.1 74.6 111.8

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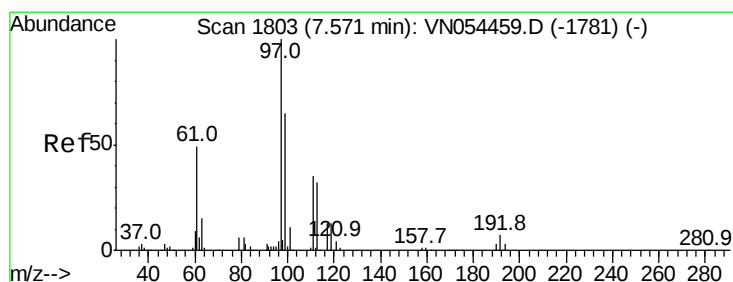
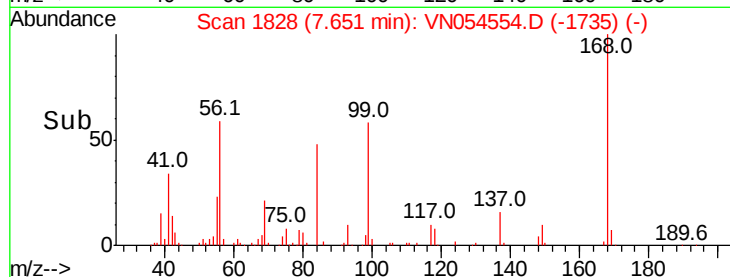
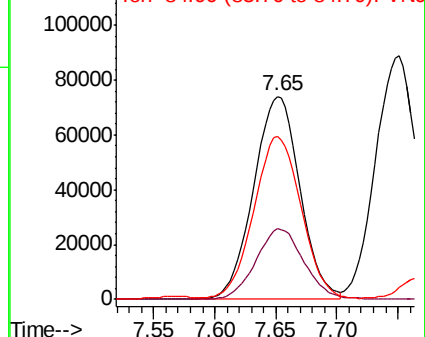
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Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO



#32

1,1,1-Trichloroethane

Concen: 21.547 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

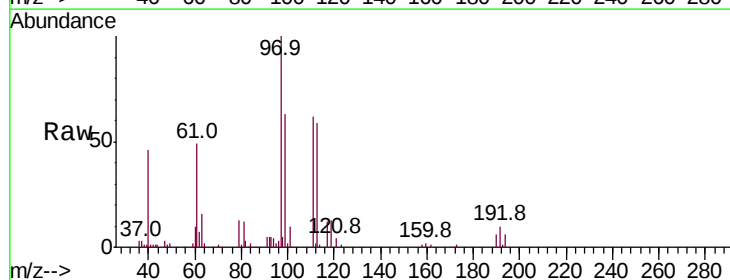
Tgt Ion: 97 Resp: 154481

Ion Ratio Lower Upper

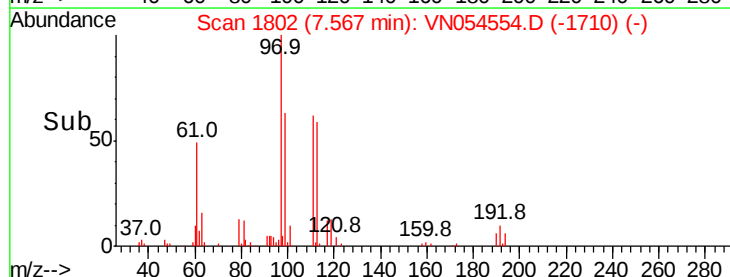
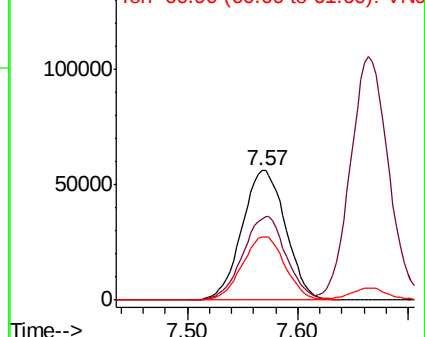
97 100

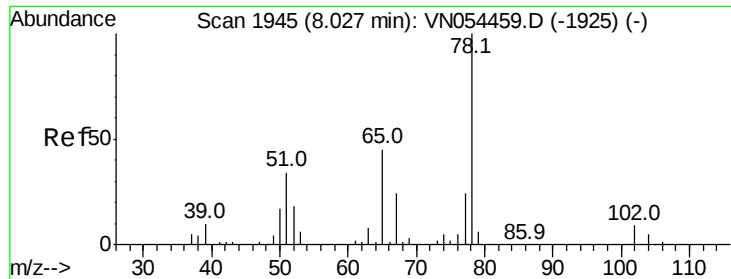
99 63.4 51.5 77.3

61 47.9 33.6 50.4



Abundance Ion 96.90 (96.60 to 97.60): VNO
Ion 98.90 (98.60 to 99.60): VNO
Ion 60.90 (60.60 to 61.60): VNO





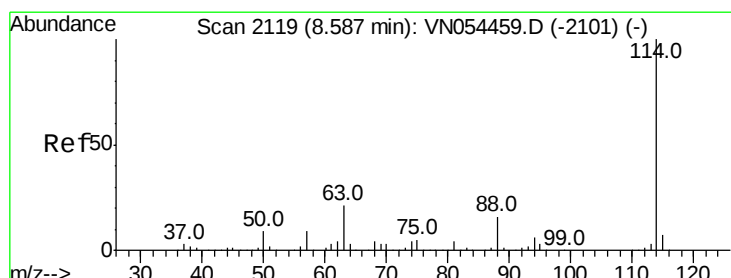
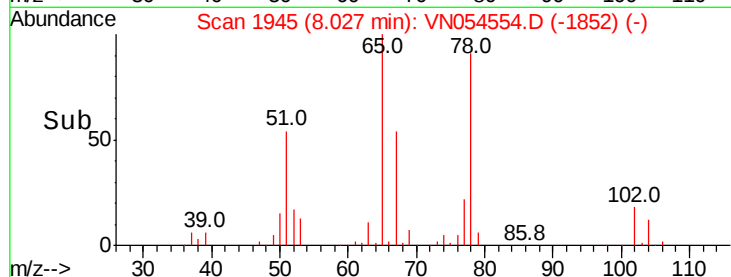
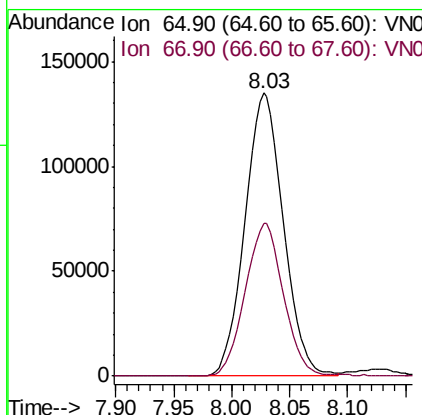
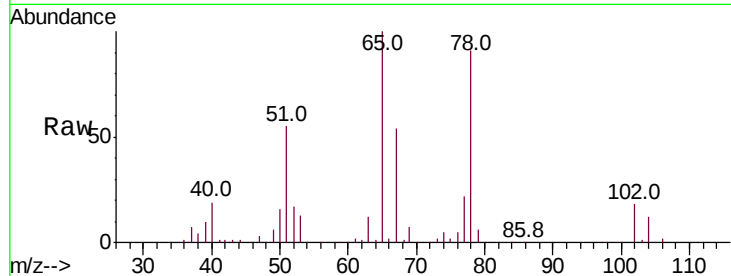
#33
 1,2-Dichloroethane-d4
 Concen: 54.237 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054554.D
 Acq: 22 Mar 2019 13:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322MBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.0	0.0	104.6	

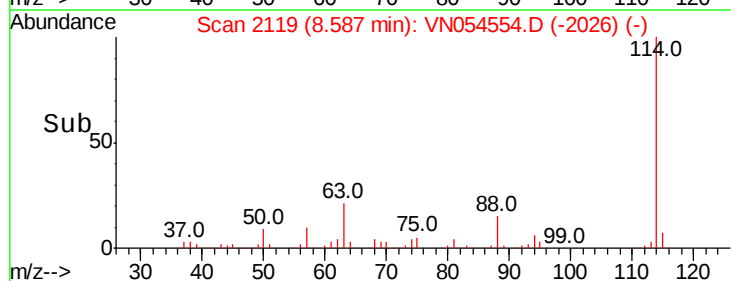
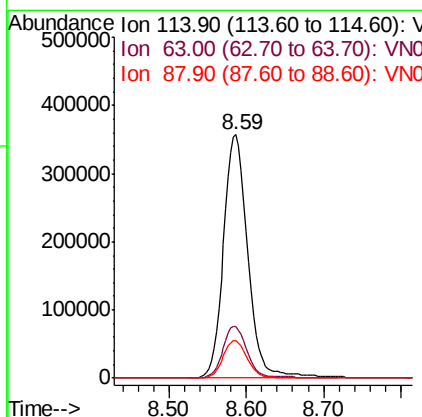
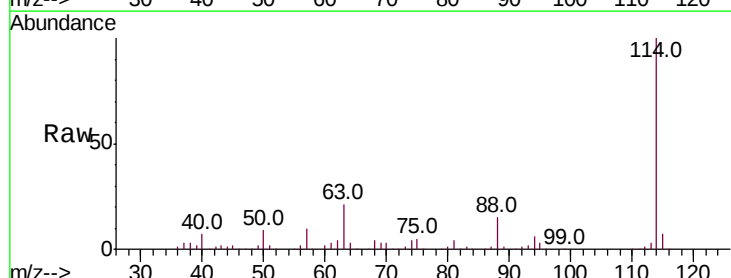
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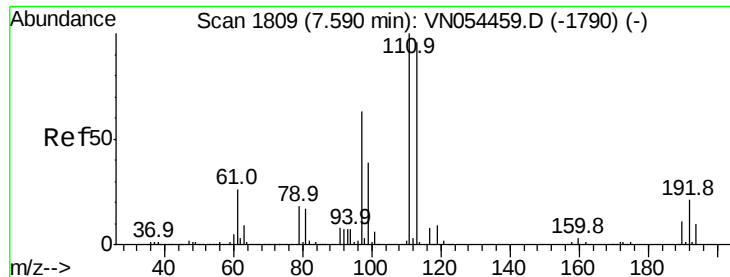
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054554.D
 Acq: 22 Mar 2019 13:30

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	21.0	0.0	35.2	
88	15.2	0.0	30.2	





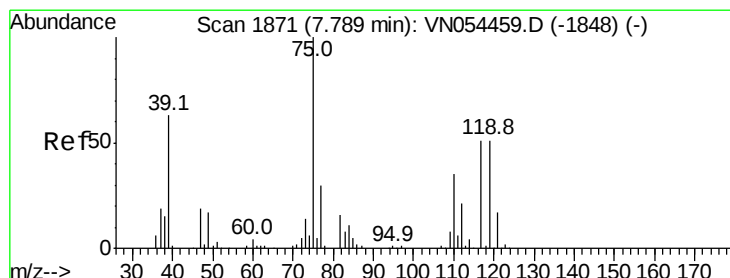
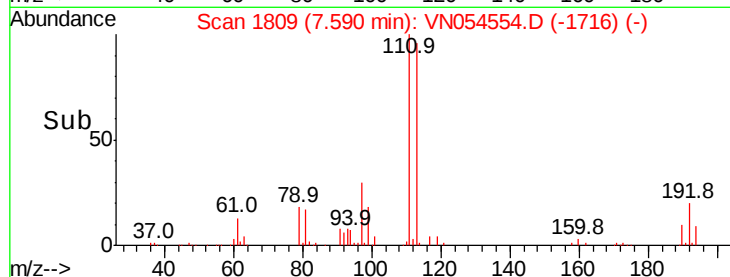
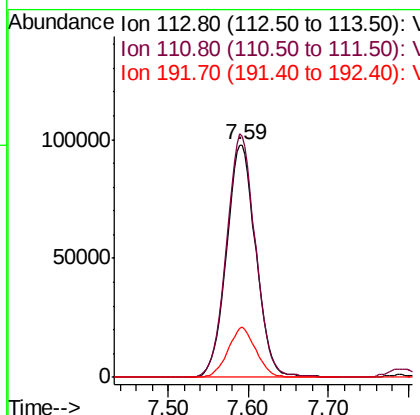
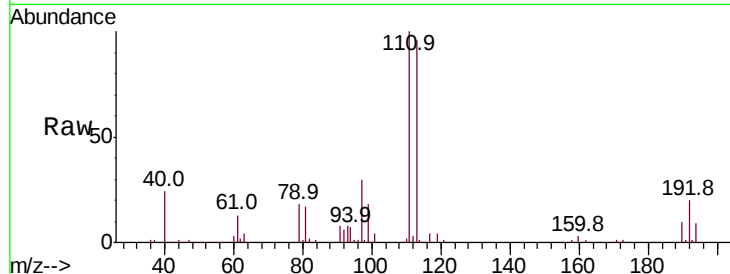
#35
 Dibromofluoromethane
 Concen: 48.709 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054554.D
 Acq: 22 Mar 2019 13:30

Instrument :
 MSVOA_N
 ClientSampled :
 VN0322MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.2	82.2	123.4	
192	20.4	19.2	28.8	

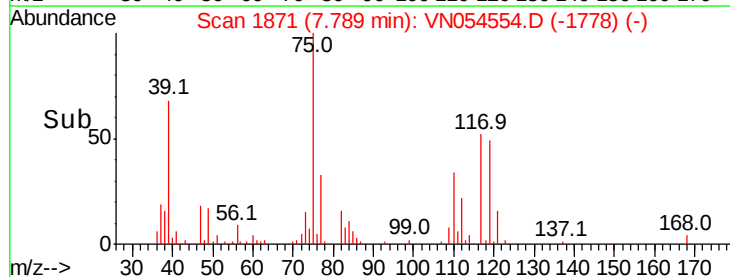
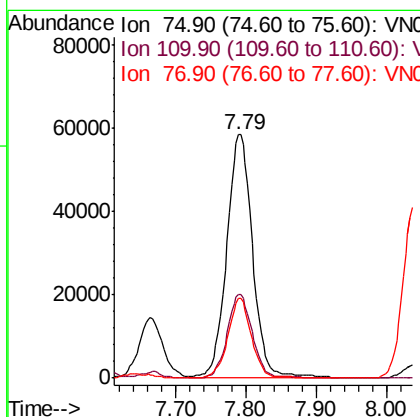
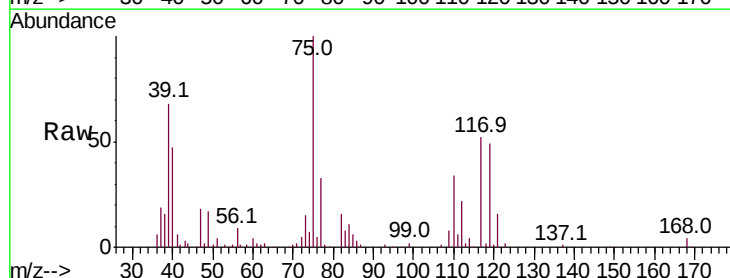
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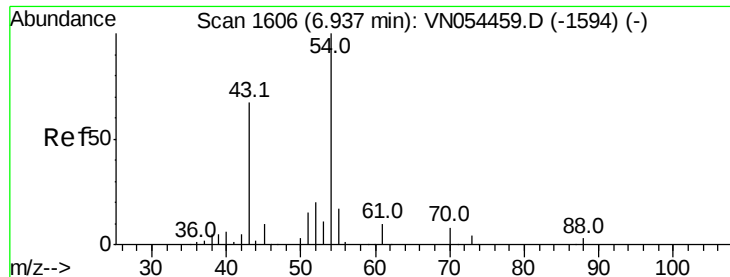
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 20.405 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN054554.D
 Acq: 22 Mar 2019 13:30

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	33.1	19.1	57.5	
77	30.0	25.0	37.4	





#37

Ethyl Acetate

Concen: 22.234 ug/l

RT: 6.94 min Scan# 1607

Delta R.T. 0.00 min

Lab File: VN054554.D

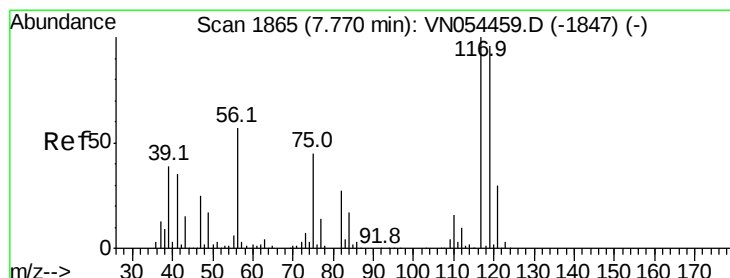
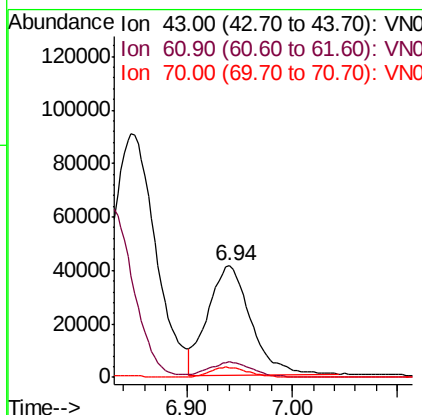
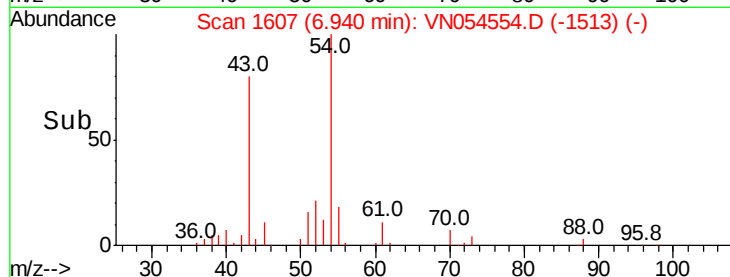
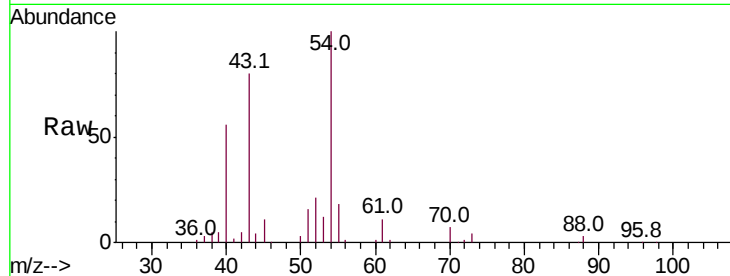
Acq: 22 Mar 2019 13:30

Instrument :
MSVOA_N
ClientSampled :
VN0322MBS01

Tot Ion	43	61	70
Ion Ratio	100	13.0	8.7
Resp: Lower		11.8	8.4
Upper		17.6	12.6

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#38

Carbon Tetrachloride

Concen: 17.982 ug/l

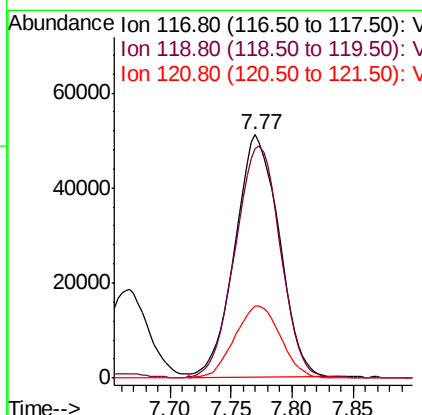
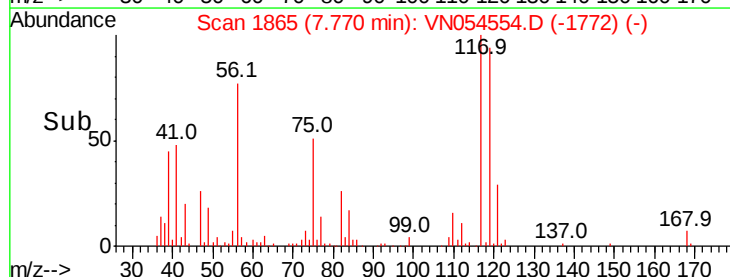
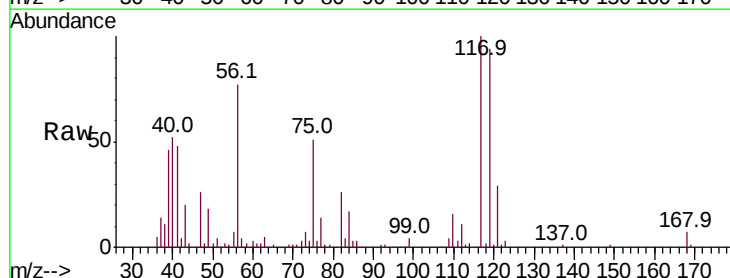
RT: 7.77 min Scan# 1865

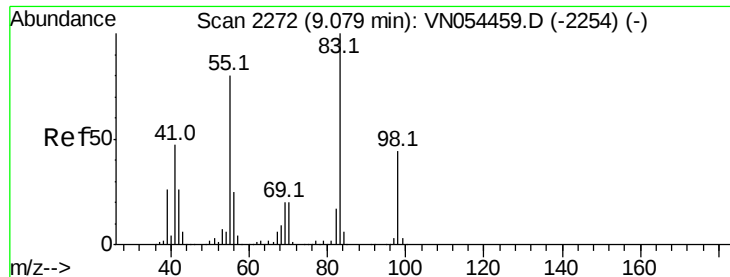
Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Tgt Ion	117	119	121
Ion Ratio	100	94.3	29.6
Resp: Lower		76.3	24.6
Upper		114.5	36.8





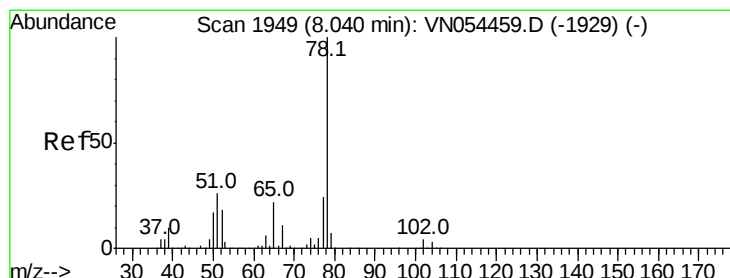
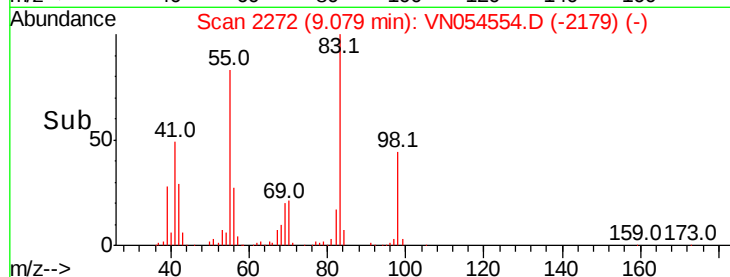
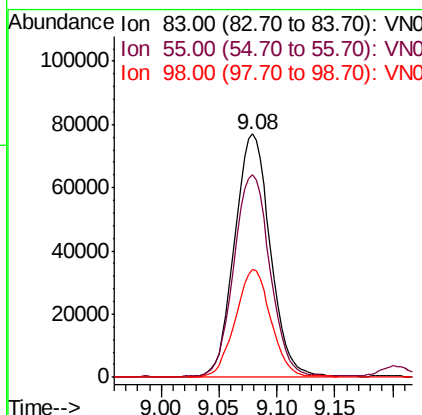
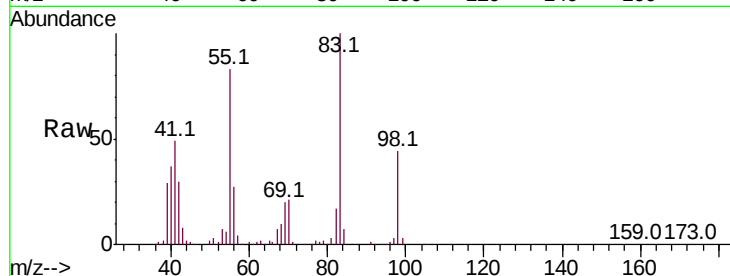
#39
Methvlcvclohexane
Concen: 19.799 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VN0322MBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.5	56.6	84.8
98	44.2	38.4	57.6

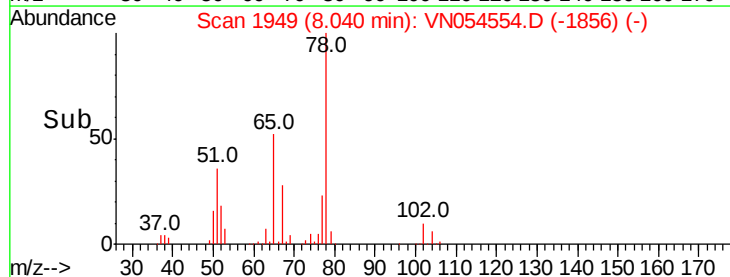
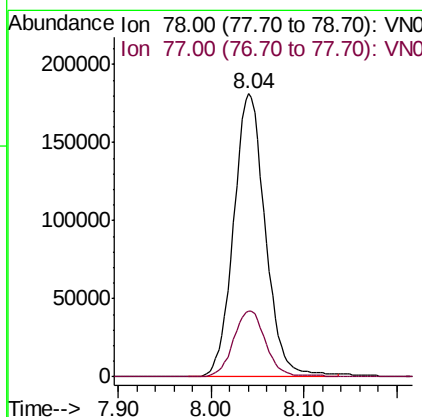
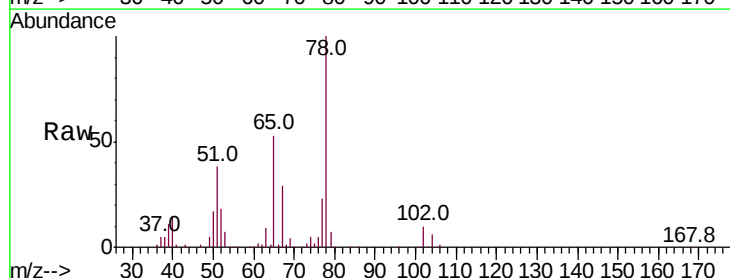
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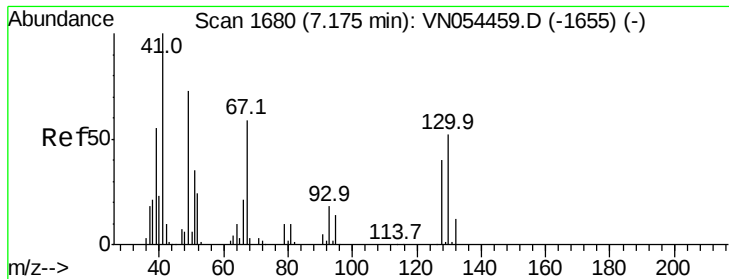
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#40
Benzene
Concen: 20.652 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.1	28.7





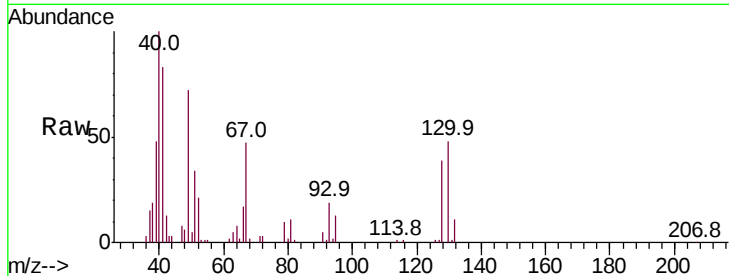
#41
Methacrylonitrile
Concen: 19.959 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VN0322MBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.0	46.8	70.2	
67	72.0	67.0	100.4	
52	30.6	26.5	39.7	

Manual Integrations
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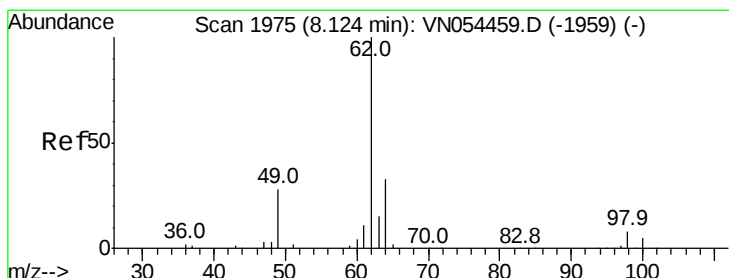
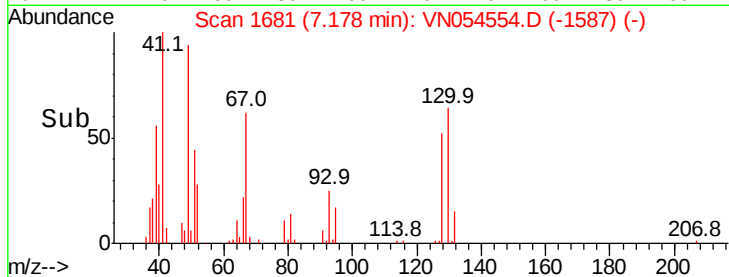
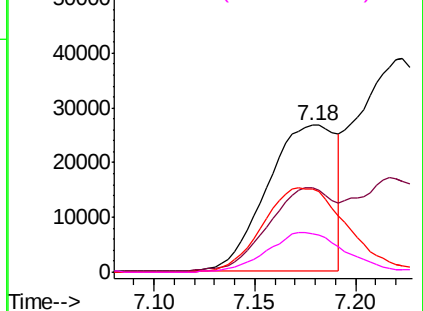
Abundance

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

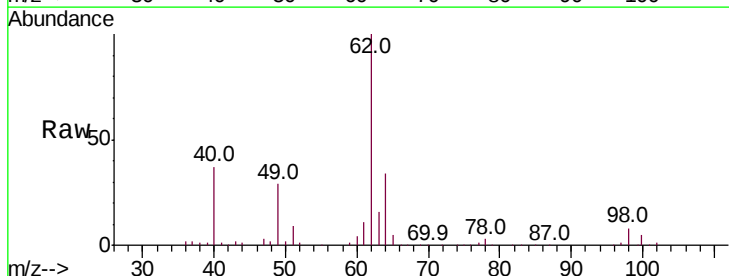
Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



#42
1,2-Dichloroethane
Concen: 20.626 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

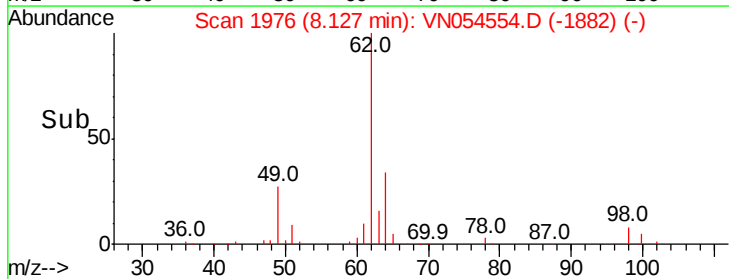
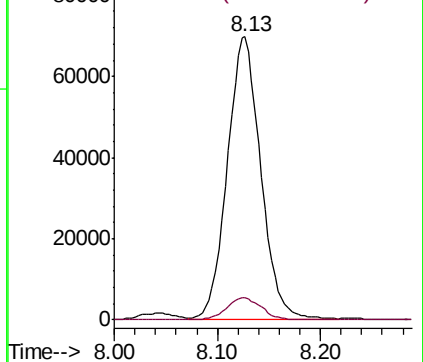
Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.2	0.0	18.4	

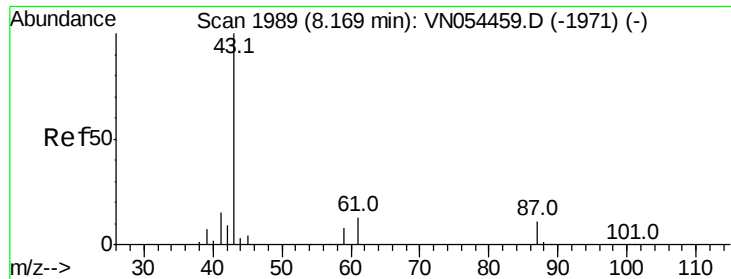


Abundance

Ion 61.90 (61.60 to 62.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





#43

Isopropyl Acetate

Concen: 21.710 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

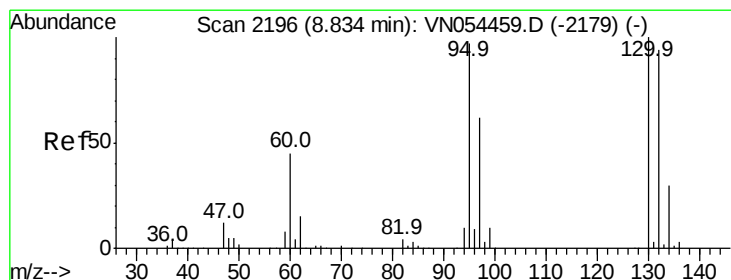
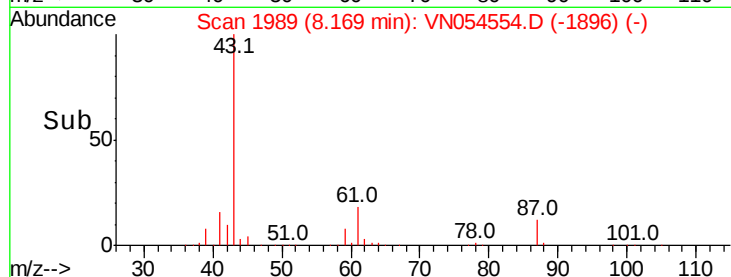
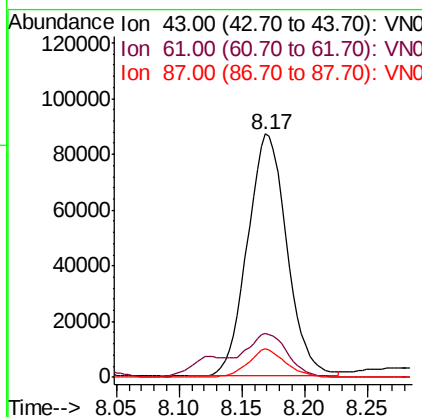
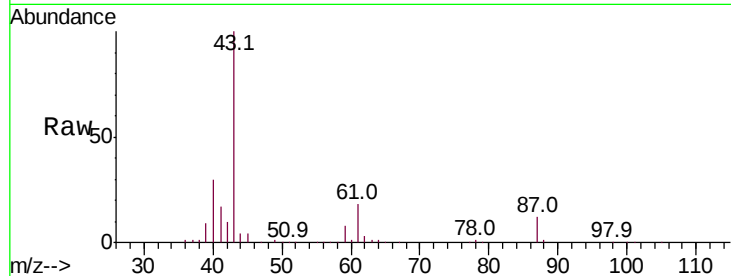
ClientSampleId :

VN0322MBS01

Tot Ion:	43	Resp:	190350
Ion Ratio	Lower	Upper	
43	100		
61	18.4	15.8	23.8
87	11.2	12.0	18.0#

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#44

Trichloroethene

Concen: 19.400 ug/l

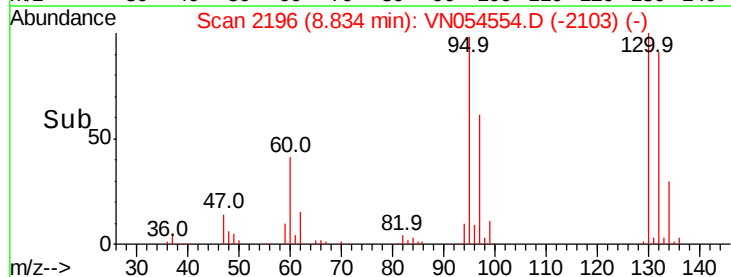
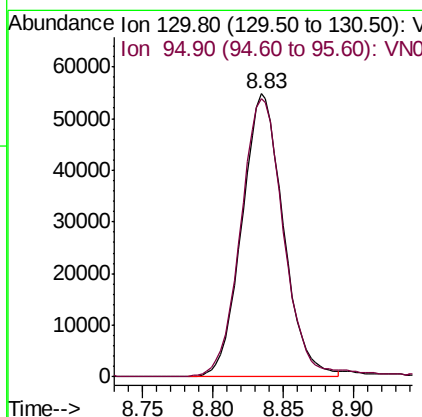
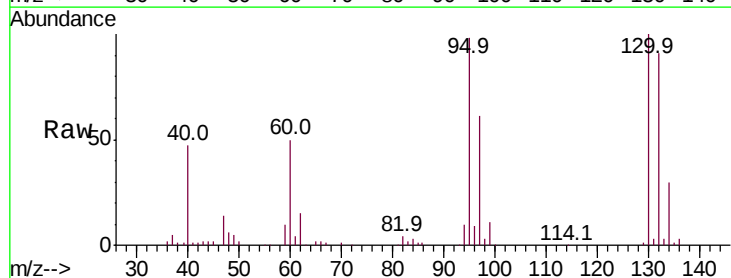
RT: 8.83 min Scan# 2196

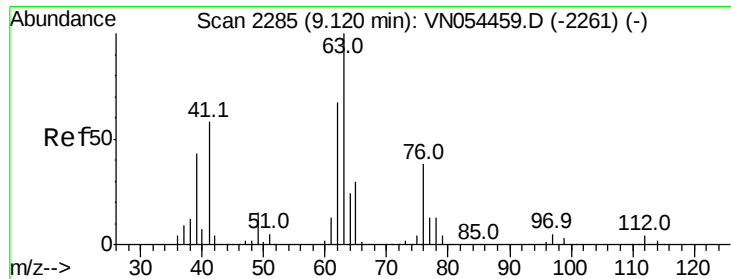
Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Tgt Ion:	130	Resp:	112584
Ion Ratio	Lower	Upper	
130	100		
95	97.9	0.0	185.2





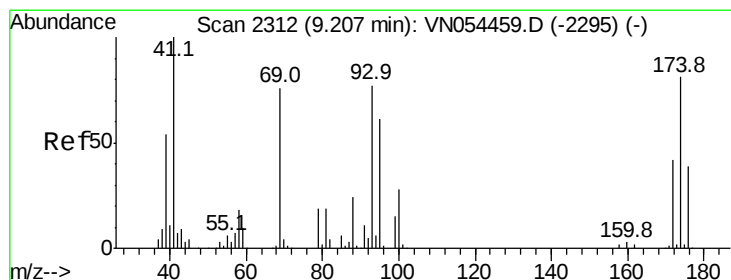
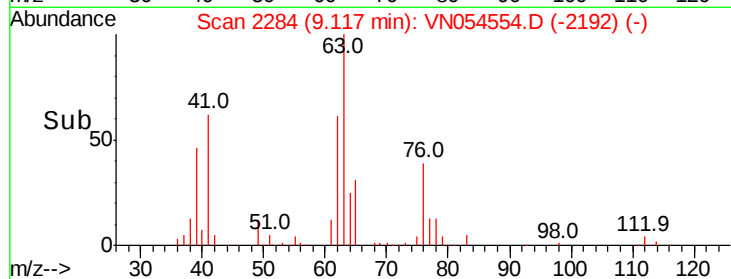
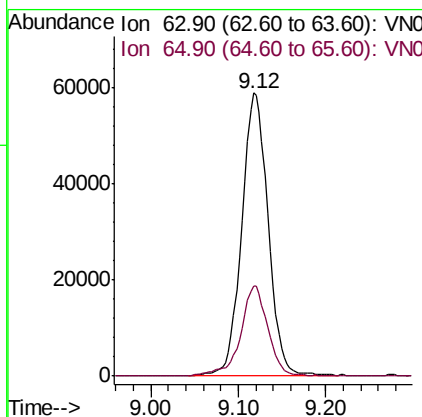
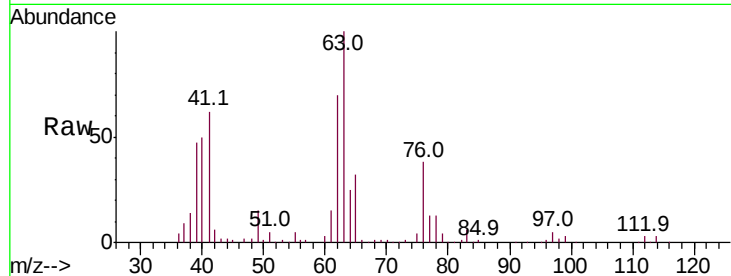
#45
 1,2-Dichloropropane
 Concen: 22.069 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN054554.D
 Acq: 22 Mar 2019 13:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322MBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.0	25.0	37.6

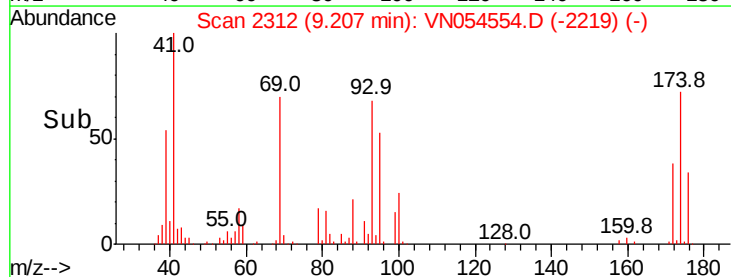
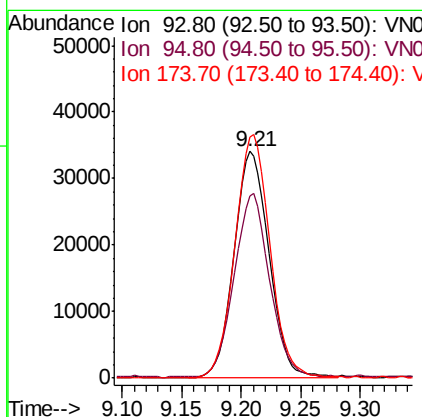
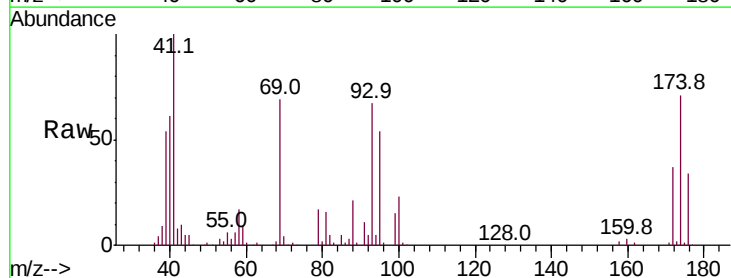
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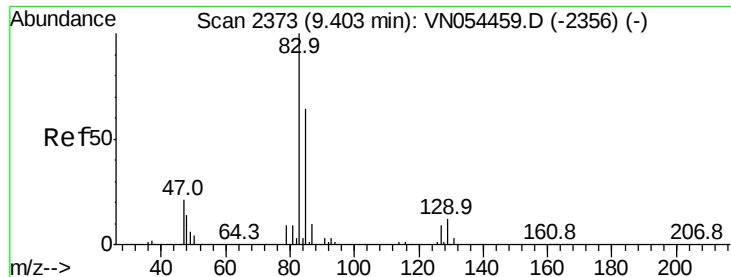
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#46
 Dibromomethane
 Concen: 20.906 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN054554.D
 Acq: 22 Mar 2019 13:30

Tgt Ion	Ratio	Lower	Upper
93	100		
95	81.1	66.7	100.1
174	107.0	98.5	147.7





#47

Bromodichloromethane

Concen: 19.824 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

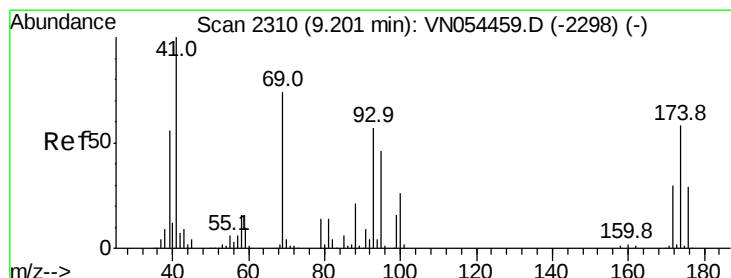
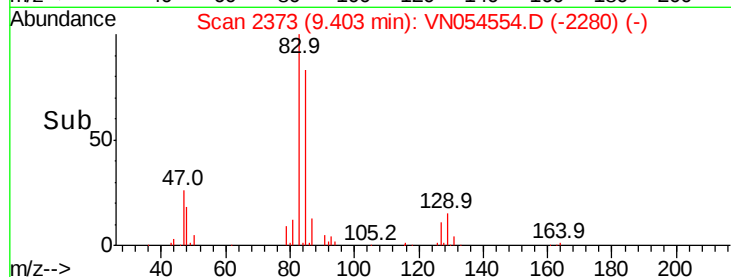
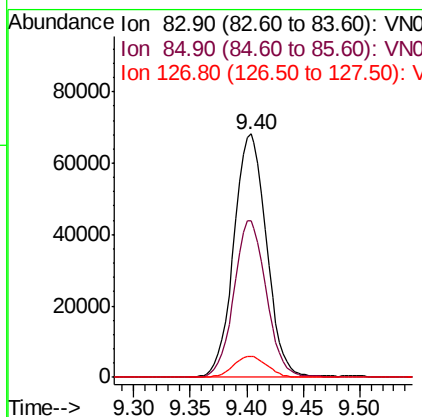
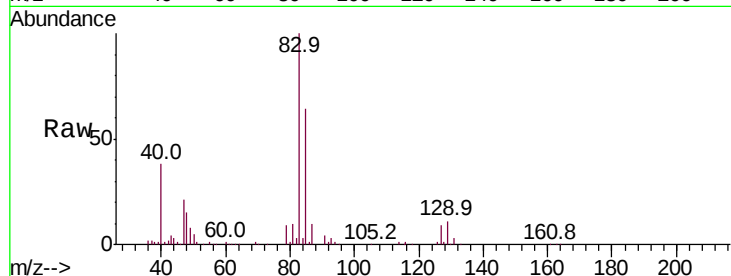
ClientSampleId :

VN0322MBS01

Tot Ion:	83	Resp:	137571
Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.8	79.2
127	8.7	7.4	11.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 21.914 ug/l

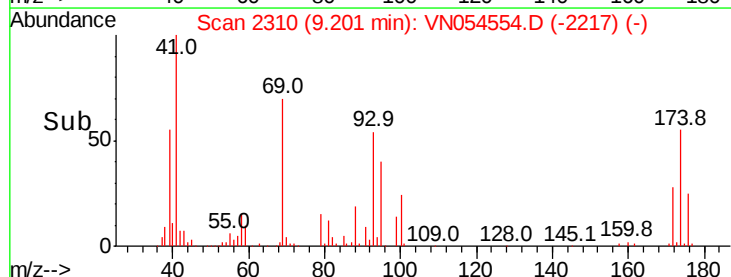
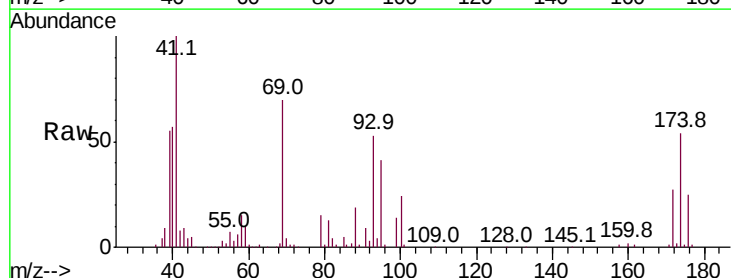
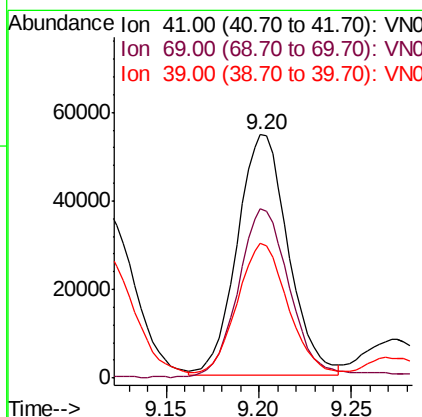
RT: 9.20 min Scan# 2310

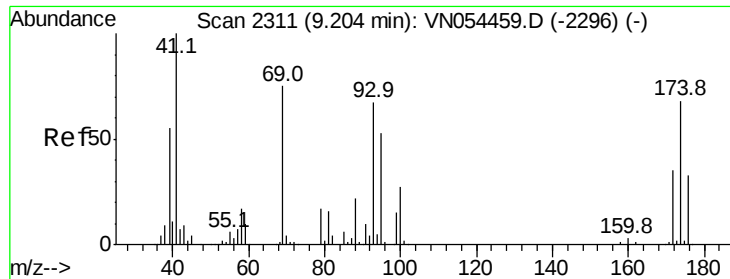
Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Tgt Ion:	41	Resp:	104285
Ion	Ratio	Lower	Upper
41	100		
69	72.2	72.6	108.8#
39	54.7	47.5	71.3





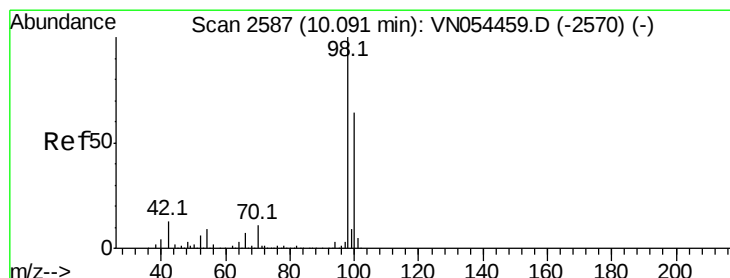
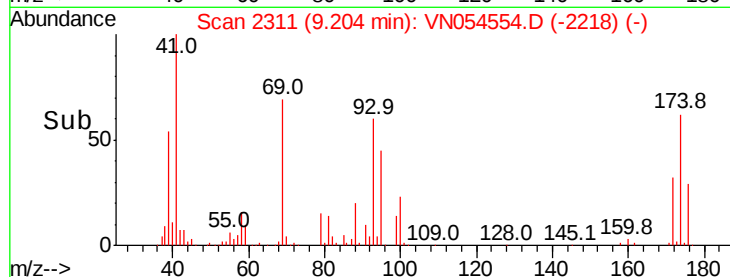
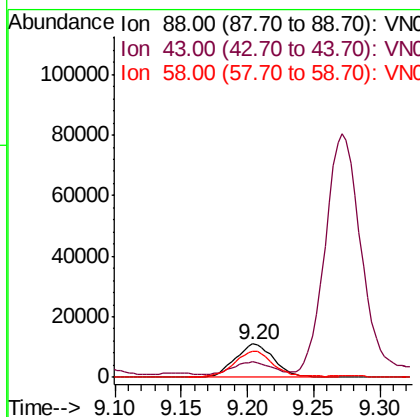
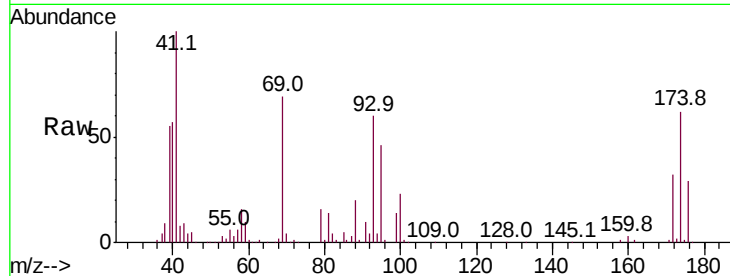
#49
 1,4-Dioxane
 Concen: 426.829 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VN054554.D
 Acq: 22 Mar 2019 13:30

Instrument :
 MSVOA_N
 ClientSampled :
 VN0322MBS01

Tot Ion: 88 Resp: 22708
 Ion Ratio Lower Upper
 88 100
 43 36.0 24.1 36.1
 58 78.8 50.8 76.2#

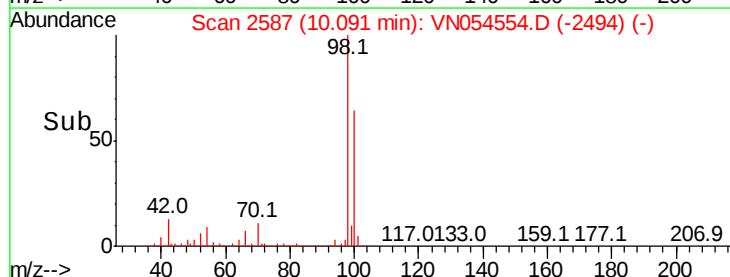
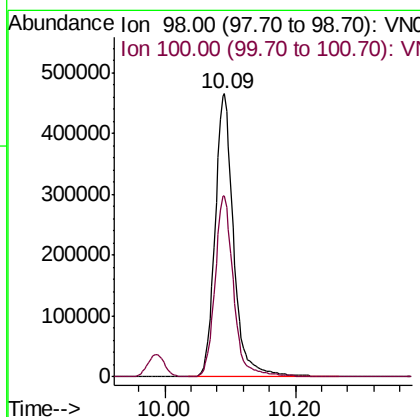
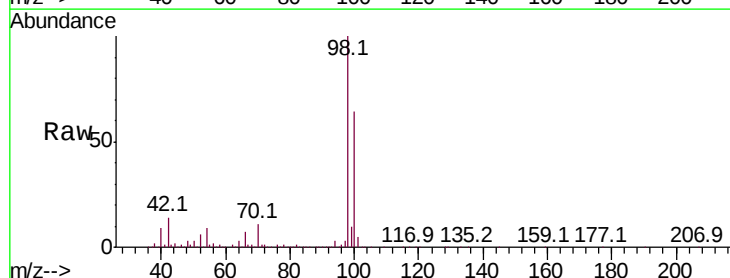
Manual Integrations
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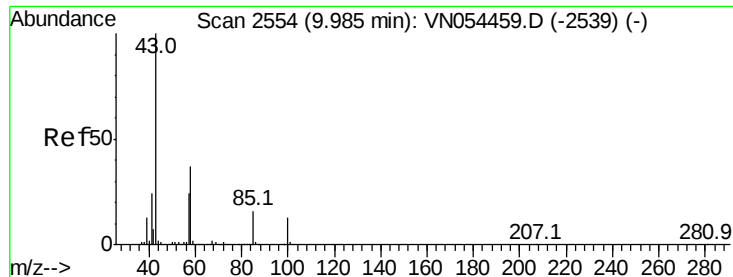
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#50
 Toluene-d8
 Concen: 48.743 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN054554.D
 Acq: 22 Mar 2019 13:30

Tgt Ion: 98 Resp: 921638
 Ion Ratio Lower Upper
 98 100
 100 63.5 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 115.665 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBS01

Tot Ion: 43 Resp: 562040

Ion Ratio Lower Upper

43 100

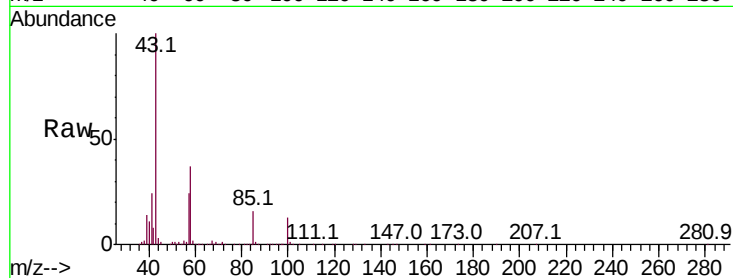
58 35.7 31.8 47.6

Manual Integrations

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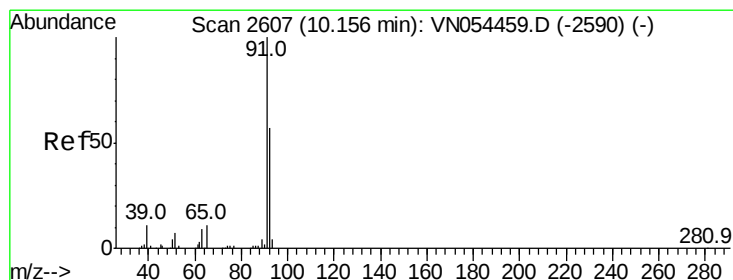
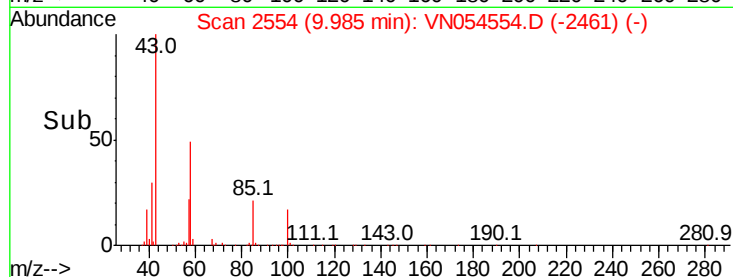
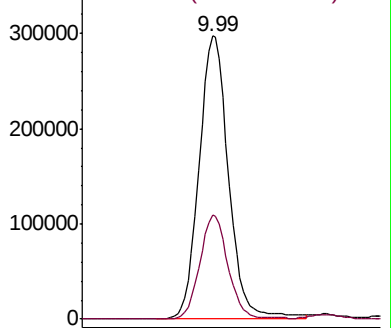
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 19.987 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054554.D

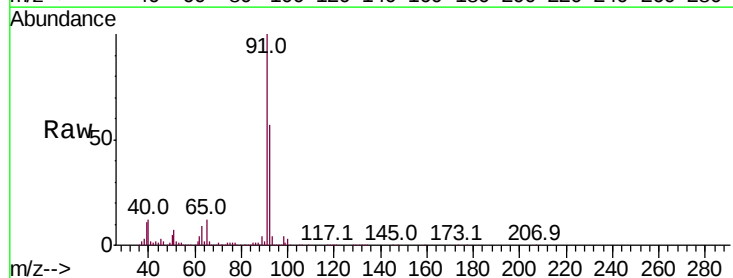
Acq: 22 Mar 2019 13:30

Tgt Ion: 92 Resp: 256587

Ion Ratio Lower Upper

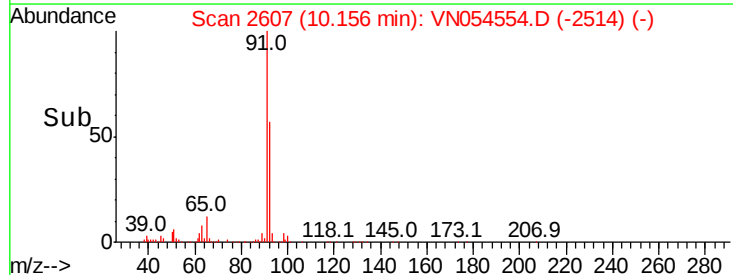
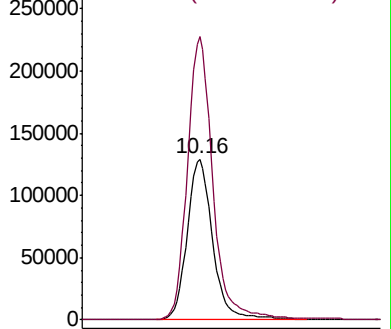
92 100

91 174.2 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 18.223 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBS01

Tot Ion: 75 Resp: 122527

Ion Ratio Lower Upper

75 100

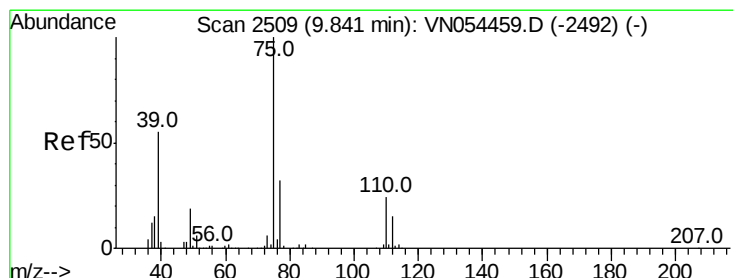
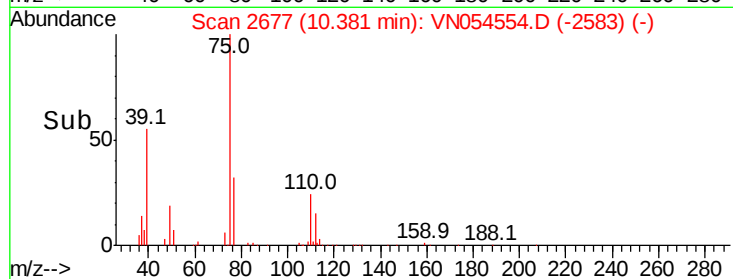
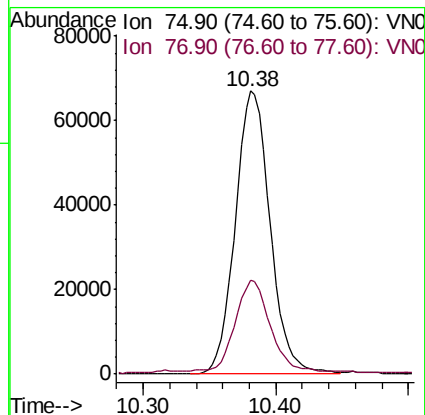
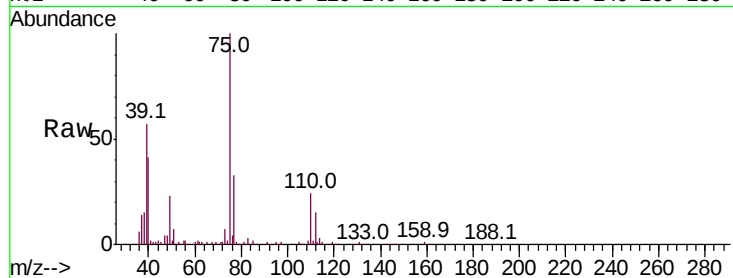
77 32.0 25.8 38.8

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 20.025 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

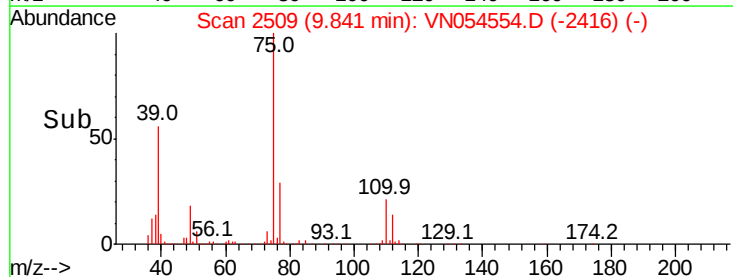
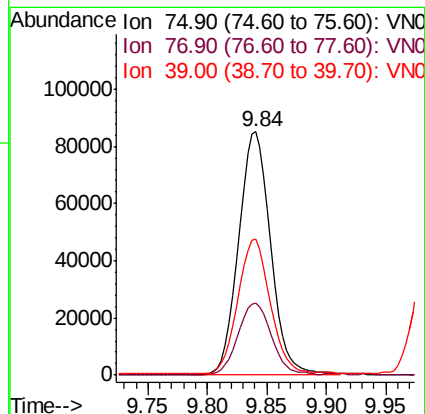
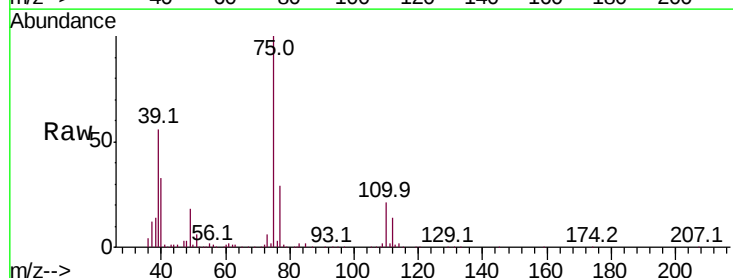
Tgt Ion: 75 Resp: 159336

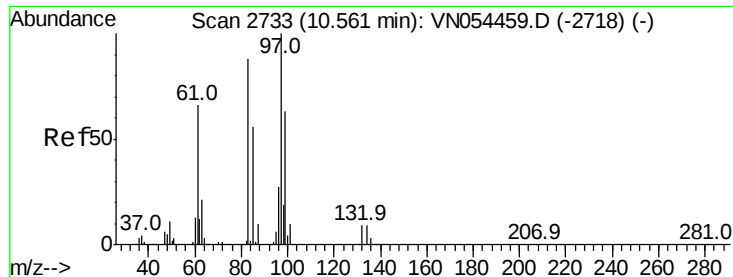
Ion Ratio Lower Upper

75 100

77 29.5 25.4 38.0

39 55.3 37.2 55.8





#55

1,1,2-Trichloroethane

Concen: 20.839 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

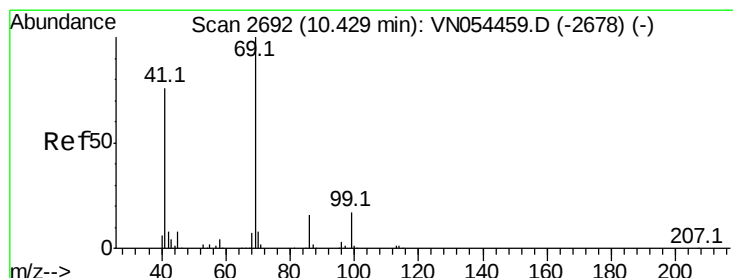
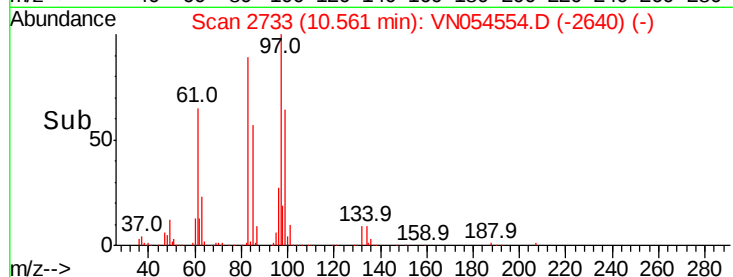
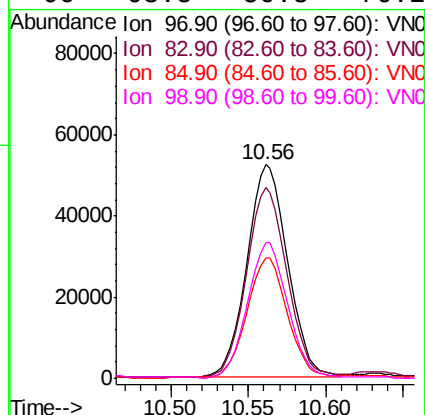
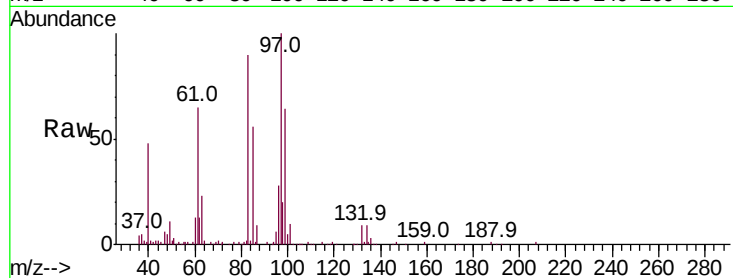
ClientSampleId :

VN0322MBS01

Tot Ion:	97	Resp:	96166
Ion	Ratio	Lower	Upper
97	100		
83	89.6	66.6	100.0
85	56.0	44.4	66.6
99	63.5	50.8	76.2

Manual Integrations
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#56

Ethyl methacrylate

Concen: 21.787 ug/l

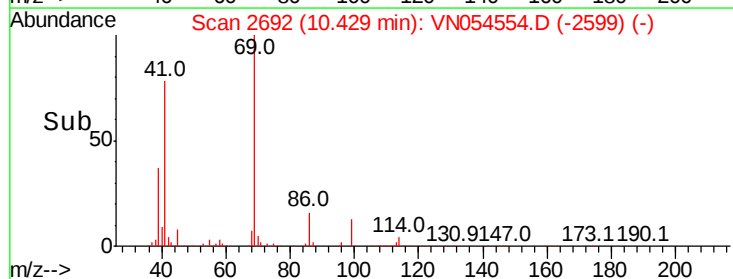
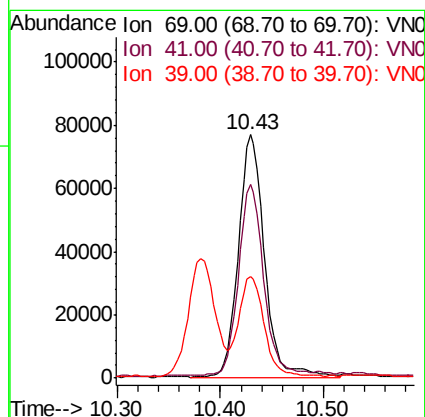
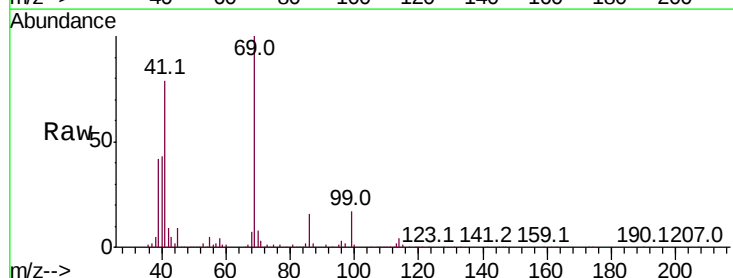
RT: 10.43 min Scan# 2692

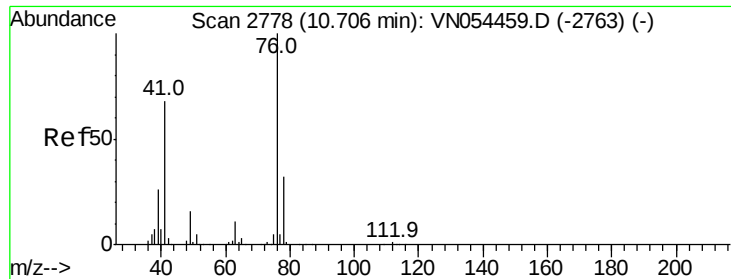
Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Tgt Ion:	69	Resp:	134946
Ion	Ratio	Lower	Upper
69	100		
41	75.8	49.4	74.2#
39	39.5	28.3	42.5





#57

1,3-Dichloropropane

Concen: 21.303 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampled :

VN0322MBS01

Tot Ion: 76 Resp: 170895

Ion Ratio Lower Upper

76 100

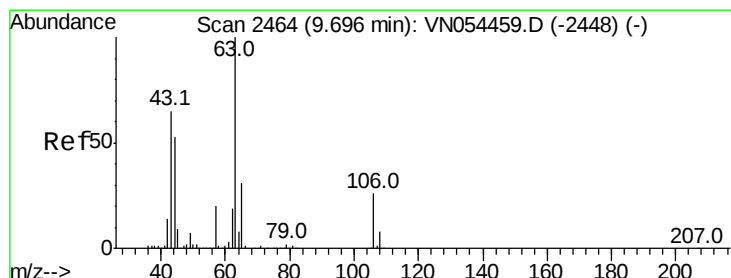
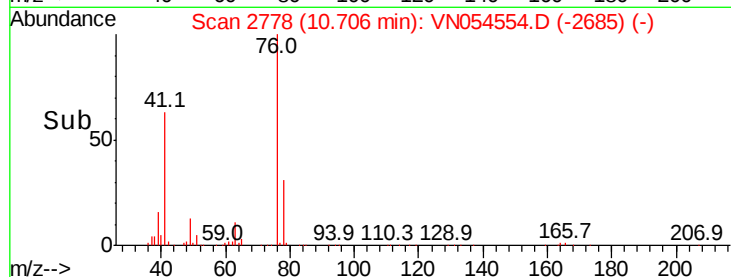
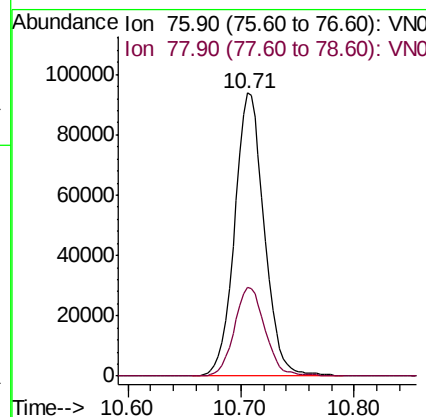
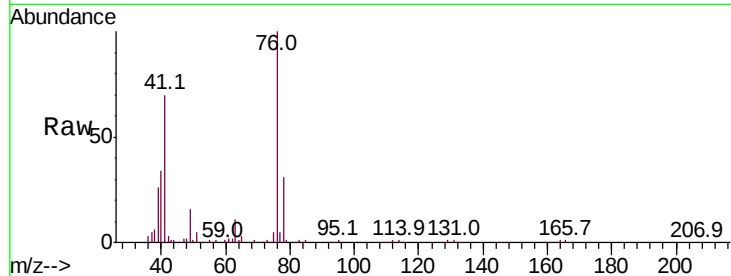
78 32.7 25.7 38.5

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 102.403 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054554.D

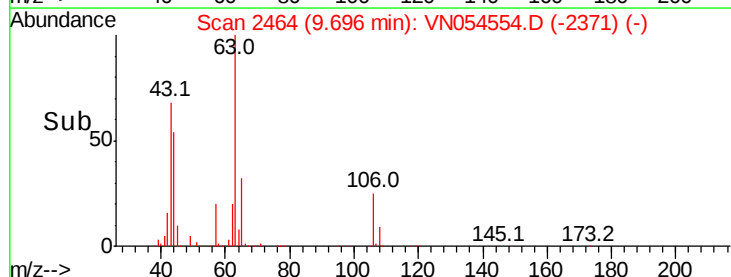
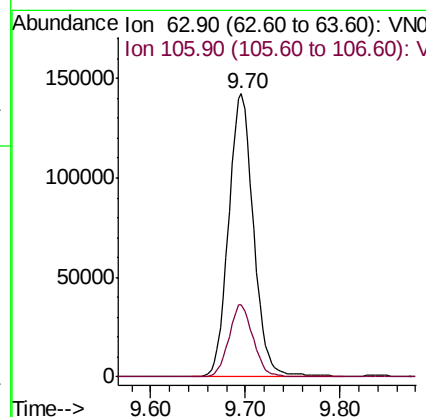
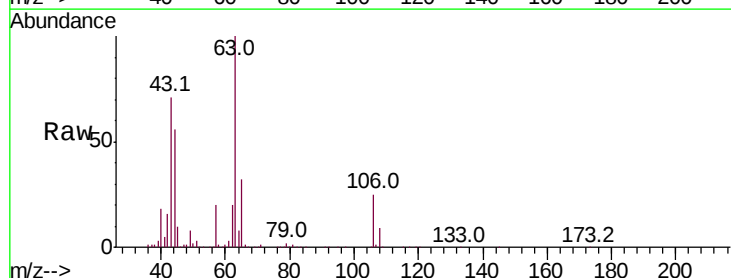
Acq: 22 Mar 2019 13:30

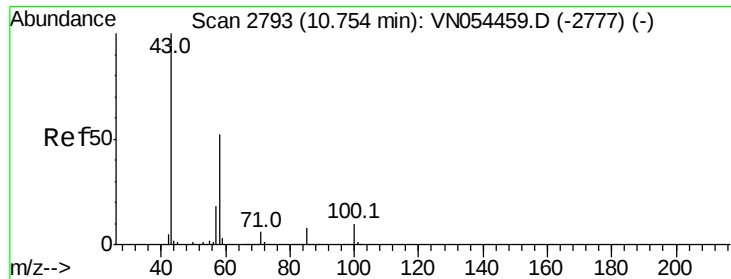
Tgt Ion: 63 Resp: 261183

Ion Ratio Lower Upper

63 100

106 25.0 24.4 36.6





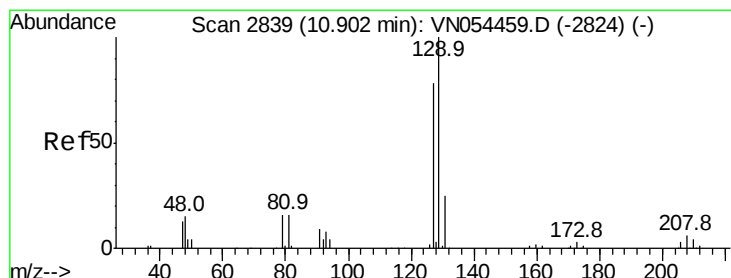
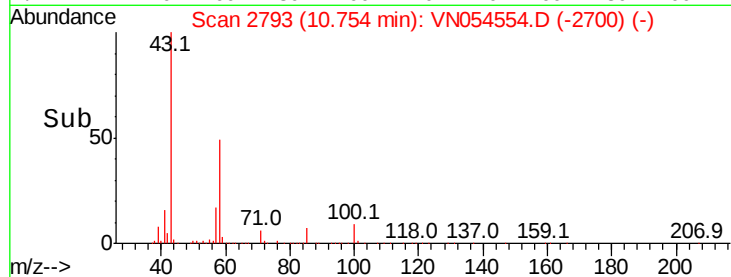
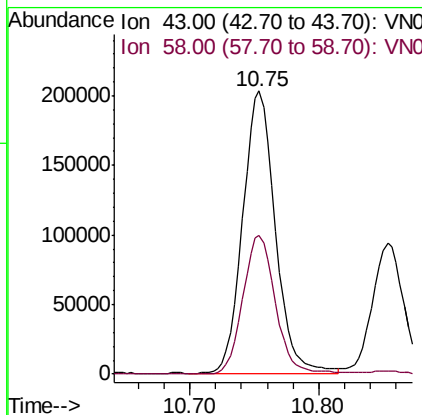
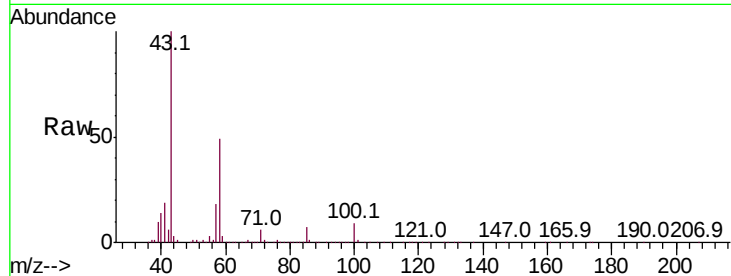
#59
2-Hexanone
Concen: 112.233 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VN0322MBS01

Tot Ion: 43 Resp: 356225
Ion Ratio Lower Upper
43 100
58 49.5 28.0 83.9

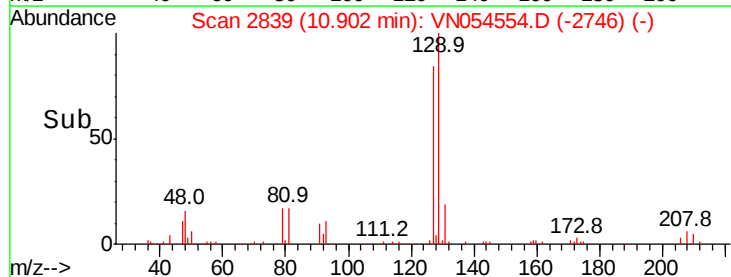
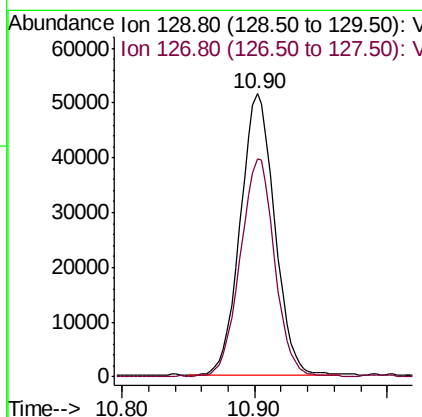
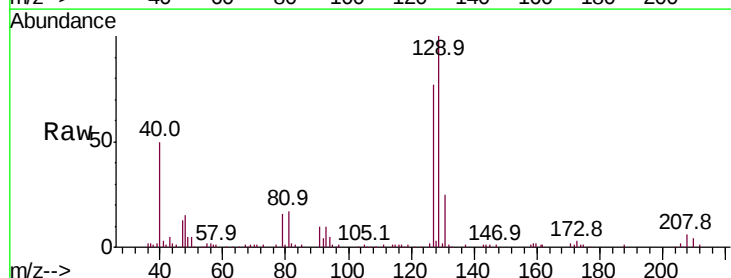
Manual Integrations
APPROVED

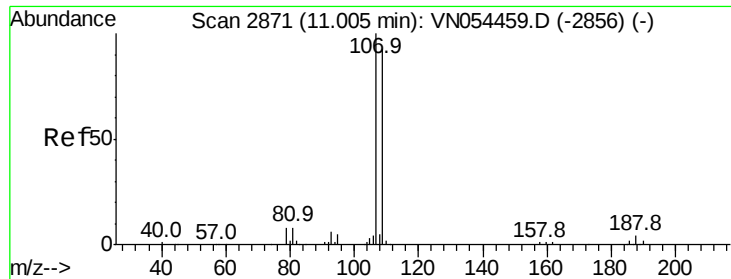
MMDadoda
3/25/2019 3:11:01 PM



#60
Dibromochloromethane
Concen: 18.730 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Tgt Ion: 129 Resp: 91975
Ion Ratio Lower Upper
129 100
127 77.0 38.6 115.8





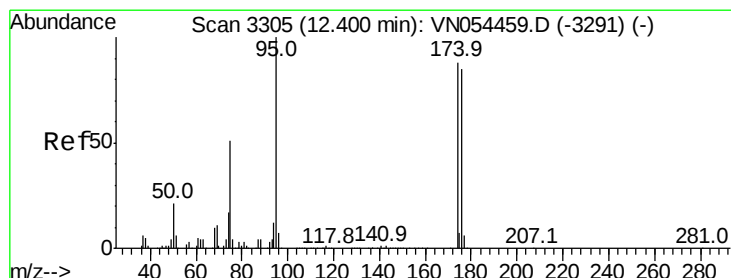
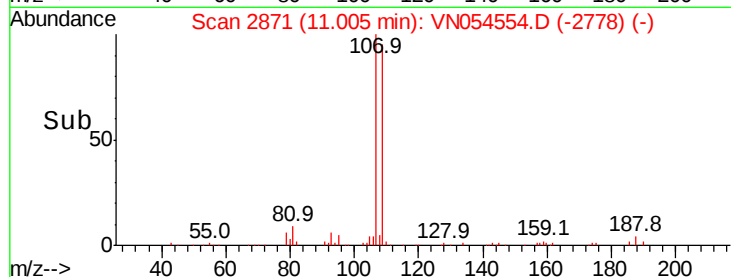
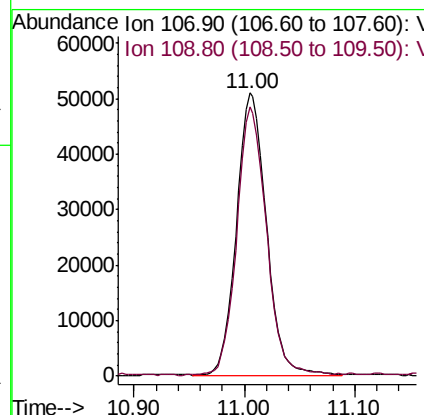
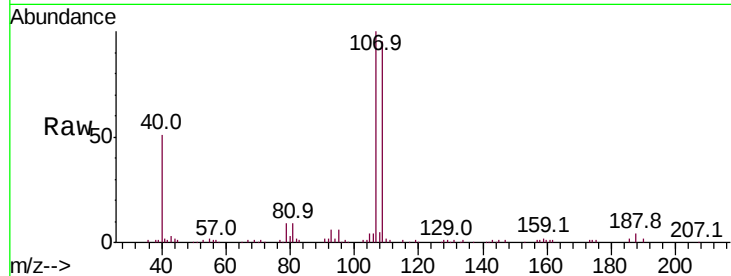
#61
 1,2-Dibromoethane
 Concen: 20.842 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN054554.D
 Acq: 22 Mar 2019 13:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322MBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.9	113.9

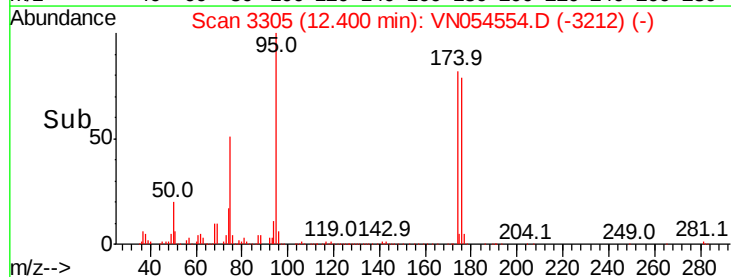
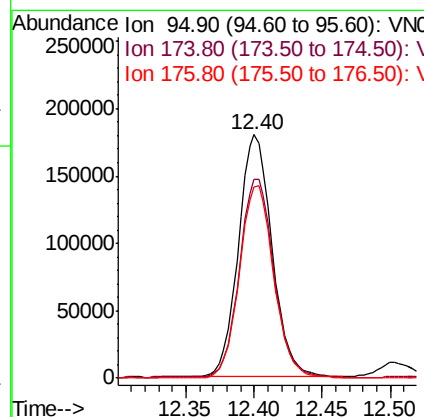
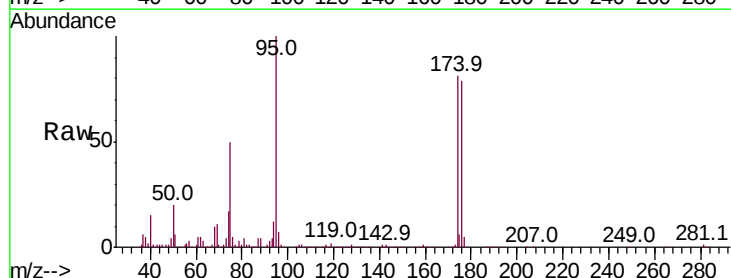
Manual Integrations
 APPROVED

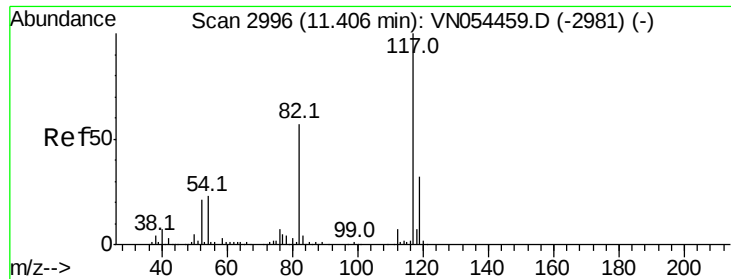
MMDadoda
 3/25/2019 3:11:01 PM



#62
 4-Bromofluorobenzene
 Concen: 47.886 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN054554.D
 Acq: 22 Mar 2019 13:30

Tgt Ion	Ratio	Lower	Upper
95	100		
174	83.8	0.0	191.0
176	81.3	0.0	187.4





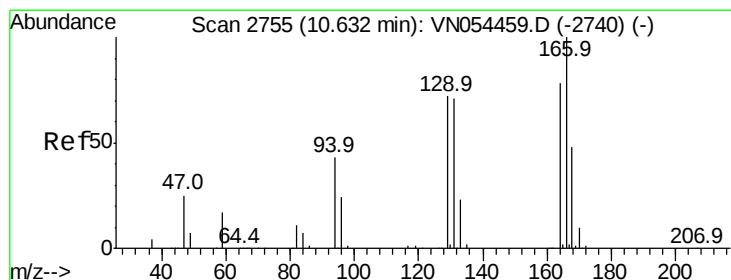
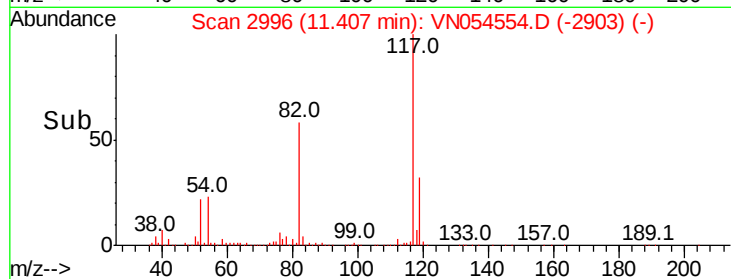
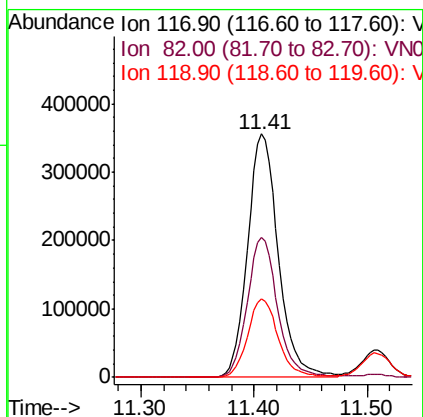
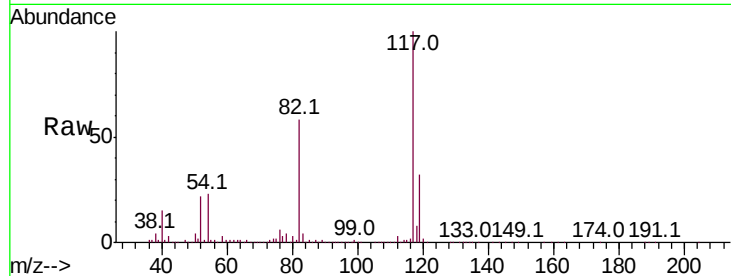
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VN0322MBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.5	40.0	60.0
119	31.9	25.8	38.6

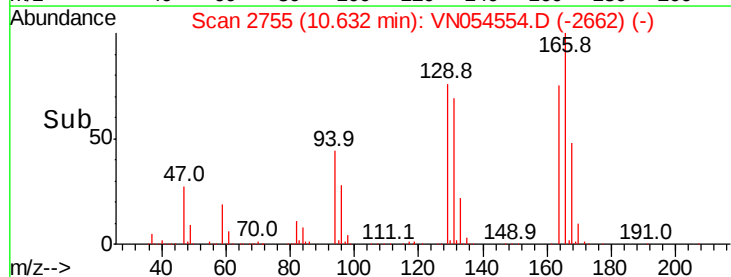
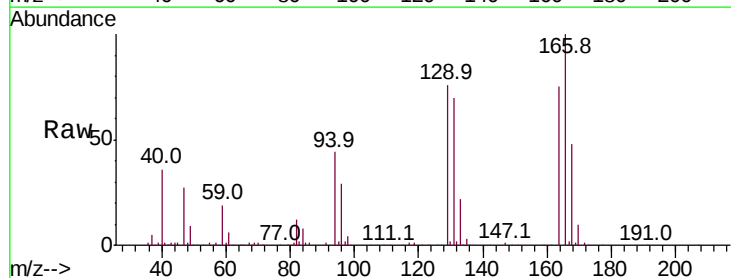
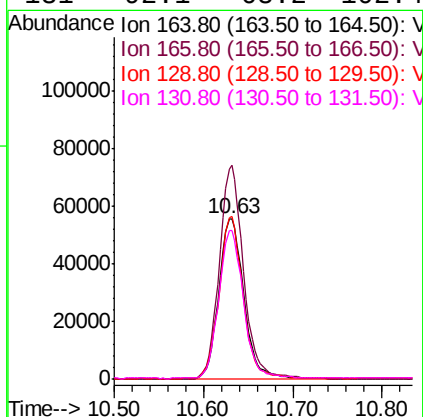
Manual Integrations
APPROVED

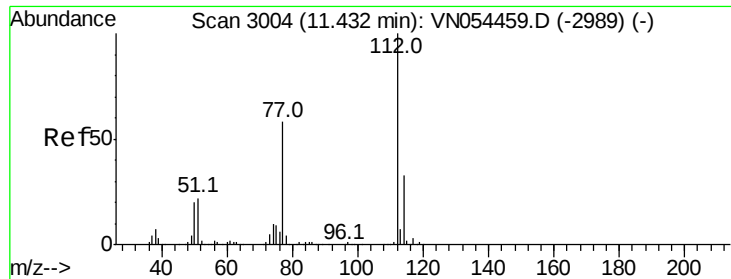
MMDadoda
3/25/2019 3:11:01 PM



#64
Tetrachloroethene
Concen: 19.624 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Tgt Ion	Ratio	Lower	Upper
164	100		
166	133.1	103.9	155.9
129	100.6	71.1	106.7
131	92.1	68.2	102.4





#65

Chlorobenzene

Concen: 19.708 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBS01

Tot Ion:112 Resp: 268690

Ion Ratio Lower Upper

112 100

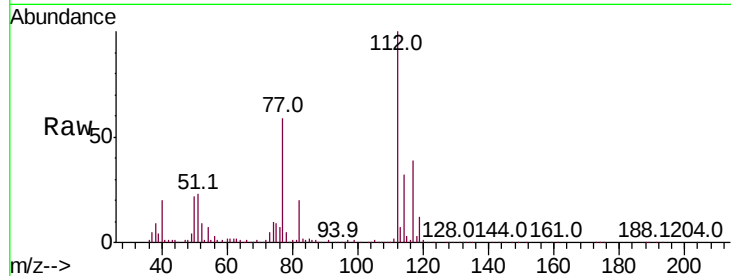
114 31.7 25.9 38.9

Manual Integrations

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43

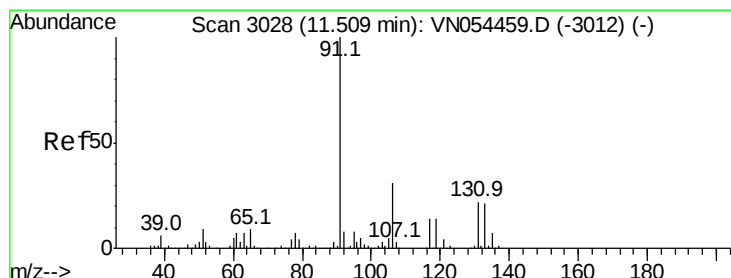
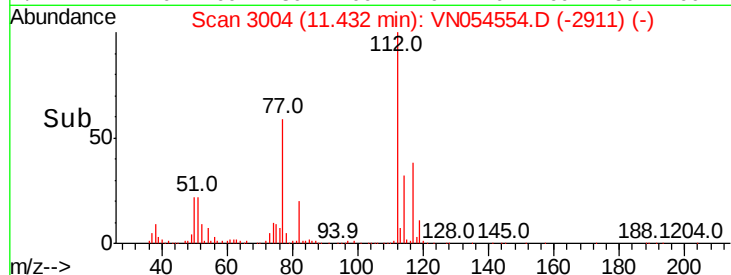
150000

100000

50000

0

Time--> 11.30 11.40 11.50 11.60



#66

1,1,1,2-Tetrachloroethane

Concen: 20.040 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

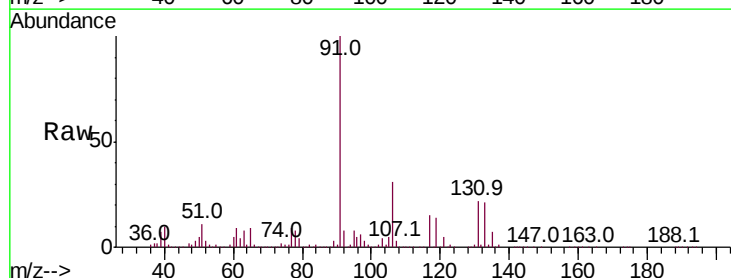
Tgt Ion:131 Resp: 98068

Ion Ratio Lower Upper

131 100

133 95.6 47.6 142.9

119 64.1 32.4 97.0



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

11.51

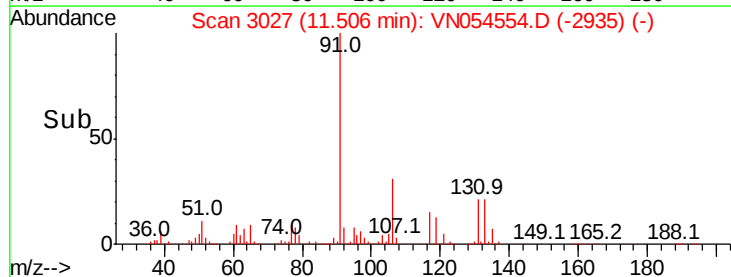
60000

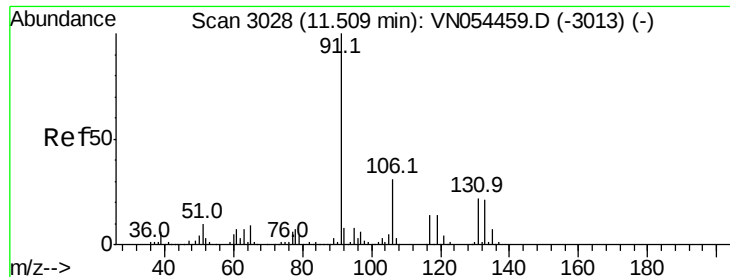
40000

20000

0

Time--> 11.45 11.50 11.55





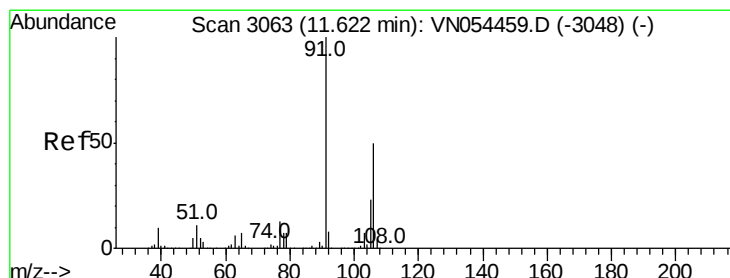
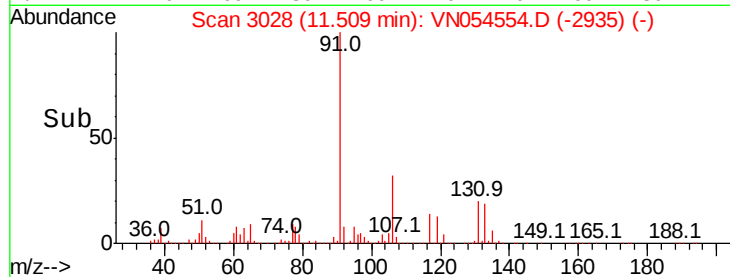
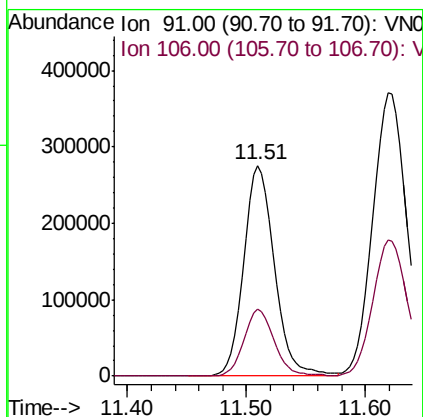
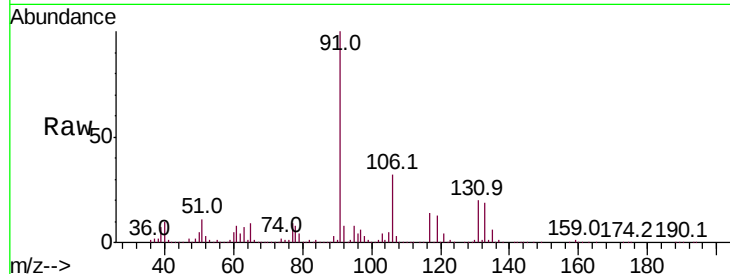
#67
Ethyl Benzene
Concen: 20.424 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Instrument :
MSVOA_N
ClientSampled :
VN0322MBS01

Tot Ion: 91 Resp: 491869
Ion Ratio Lower Upper
91 100
106 31.6 25.5 38.3

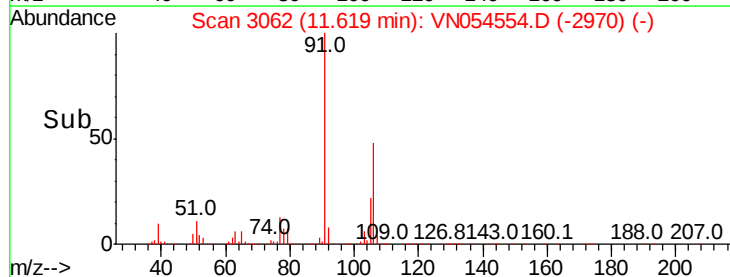
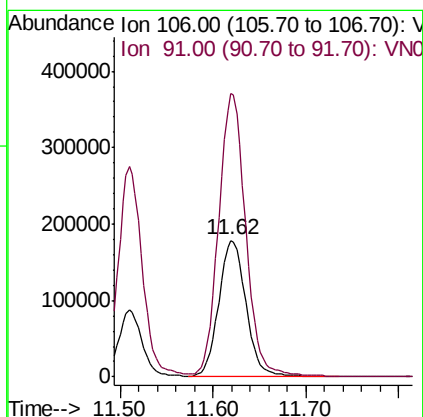
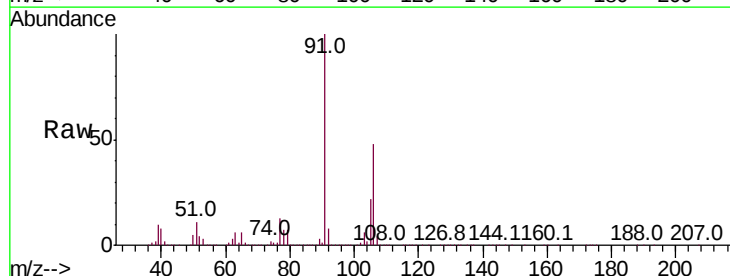
Manual Integrations
APPROVED

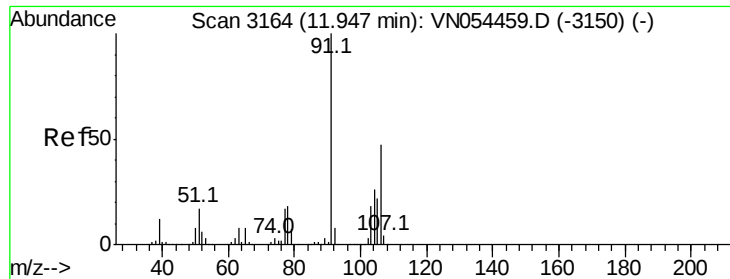
MMDadoda
3/25/2019 3:11:01 PM



#68
m/p-Xylenes
Concen: 39.618 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Tgt Ion: 106 Resp: 361396
Ion Ratio Lower Upper
106 100
91 206.8 159.4 239.2





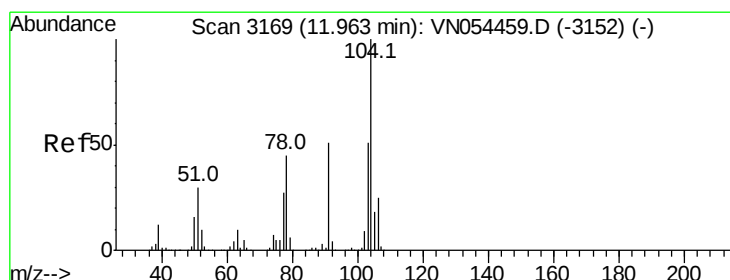
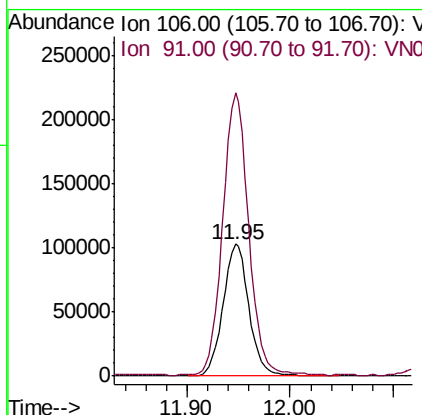
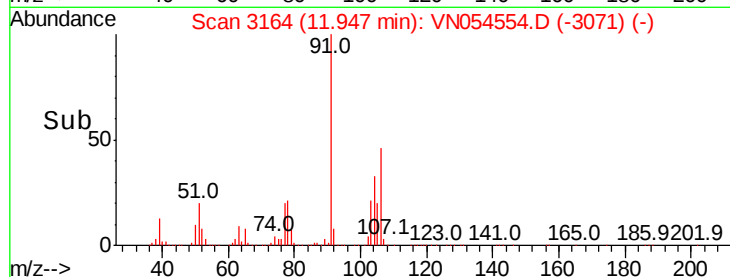
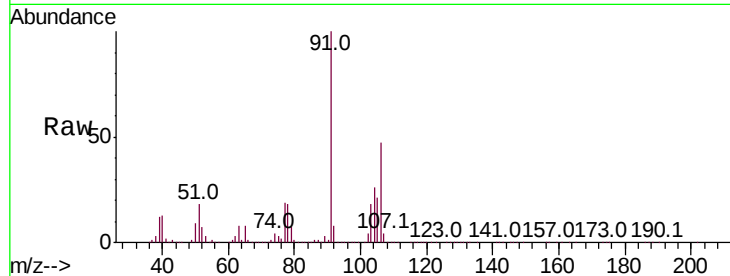
#69
o-Xylene
Concen: 20.306 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Instrument :
MSVOA_N
ClientSampled :
VN0322MBS01

Tot Ion:106 Resp: 180898
Ion Ratio Lower Upper
106 100
91 212.3 105.7 317.1

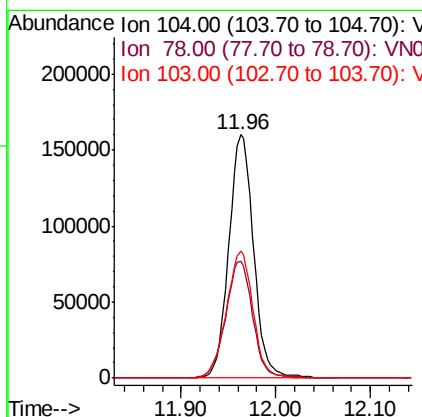
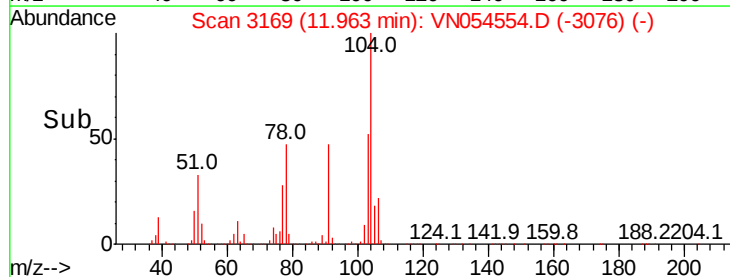
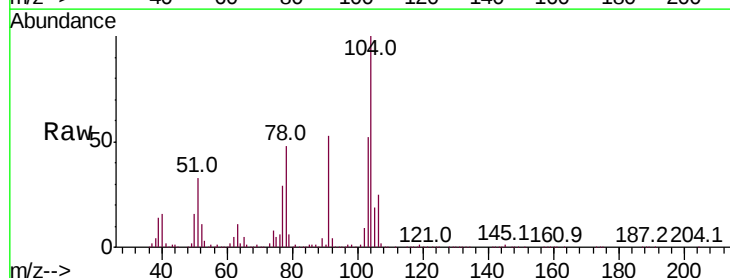
Manual Integrations
APPROVED

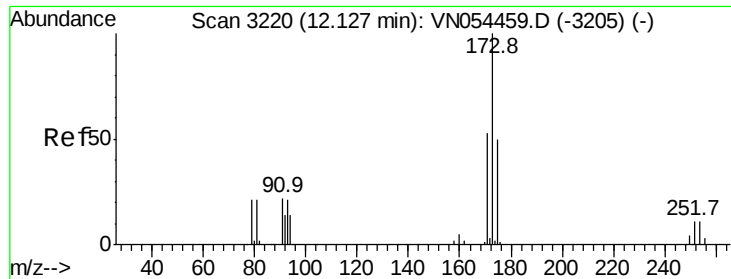
MMDadoda
3/25/2019 3:11:01 PM



#70
Styrene
Concen: 20.080 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Tgt Ion:104 Resp: 290498
Ion Ratio Lower Upper
104 100
78 52.1 38.2 57.2
103 56.6 44.4 66.6





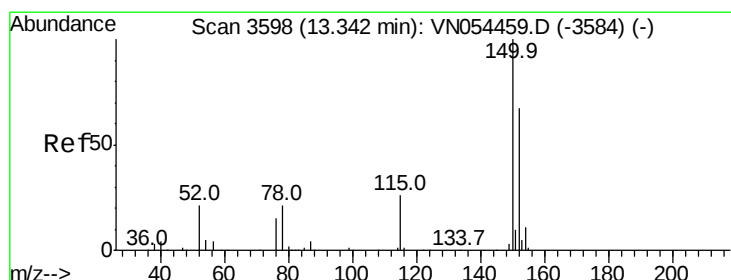
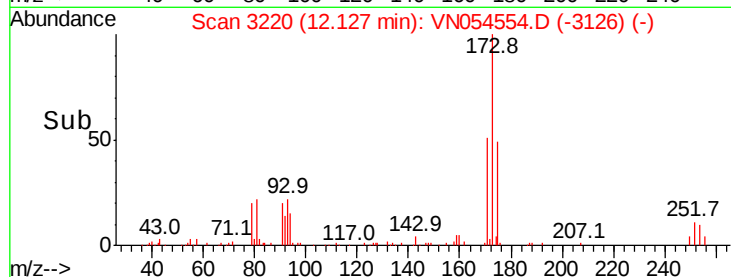
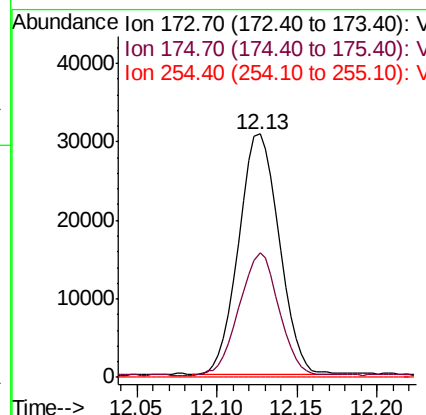
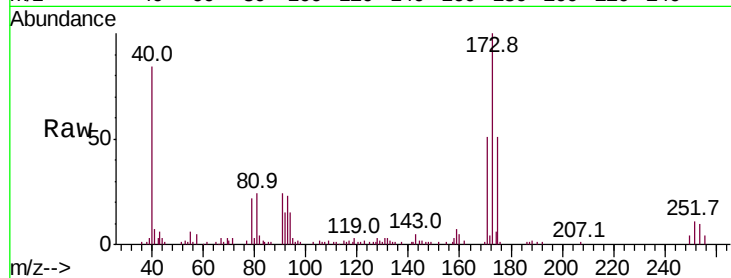
#71
Bromoform
Concen: 17.248 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VN0322MBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.4	24.4	73.2
254	0.0	0.1	0.1#

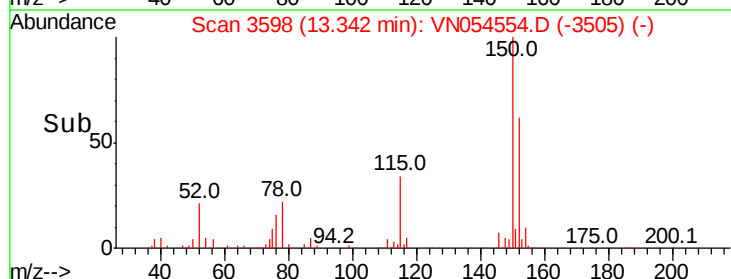
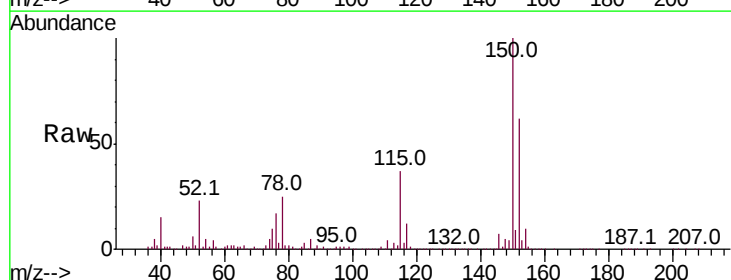
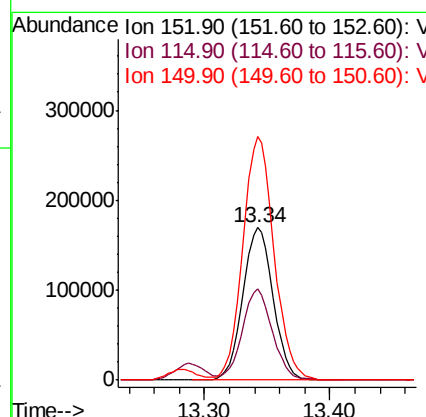
Manual Integrations
APPROVED

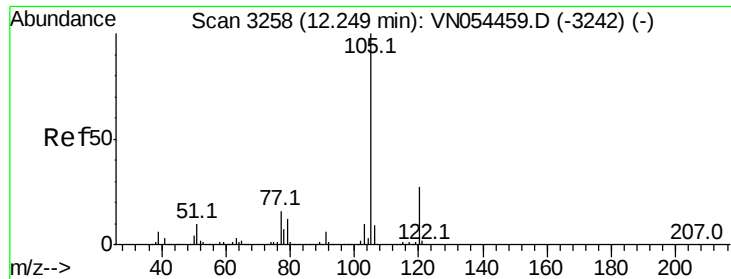
MMDadoda
3/25/2019 3:11:01 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.0	27.2	81.6
150	164.4	0.0	349.2





#73

Isopropylbenzene

Concen: 20.561 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBS01

Tot Ion:105 Resp: 470099

Ion Ratio Lower Upper

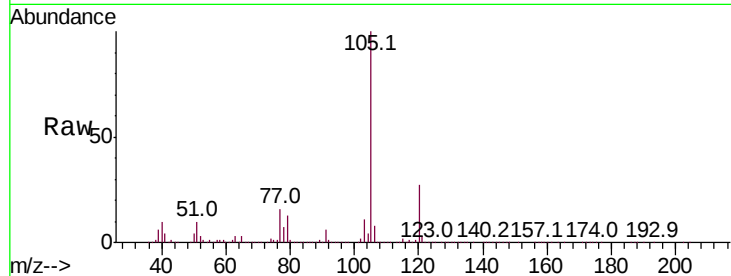
105 100

120 27.3 13.8 41.3

Manual Integrations
APPROVED

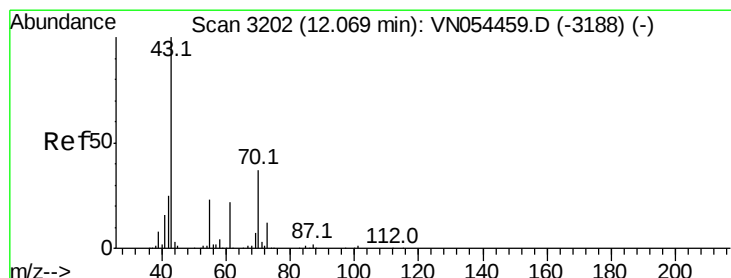
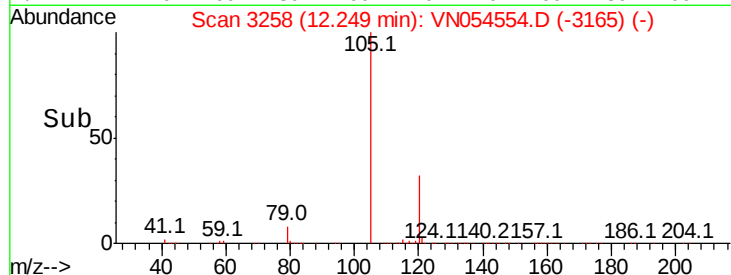
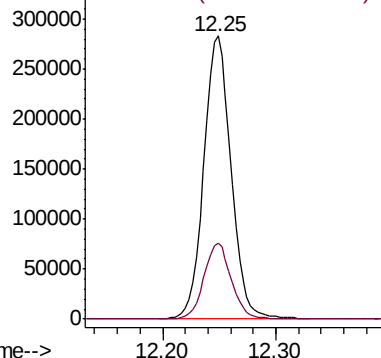
MMDadoda

3/25/2019 3:11:01 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 23.261 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Tgt Ion: 43 Resp: 152920

Ion Ratio Lower Upper

43 100

70 36.9 35.4 53.0

55 24.0 19.8 29.6

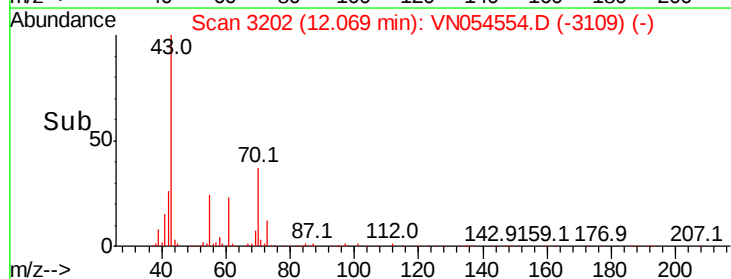
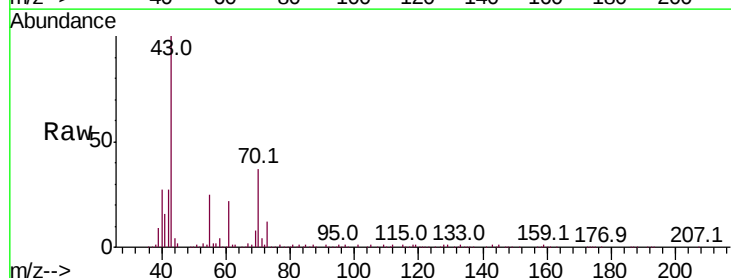
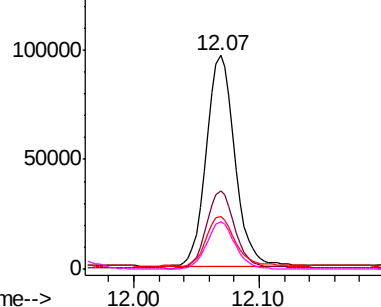
61 22.4 19.8 29.6

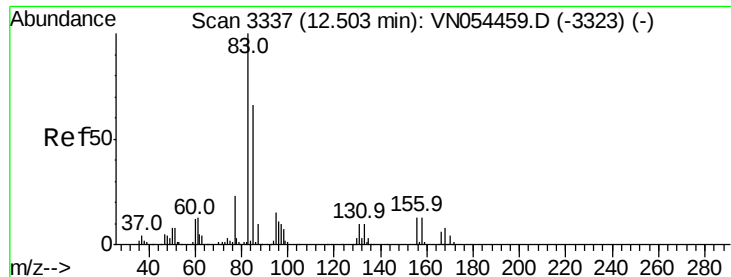
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 22.838 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VN0322MBS01

Tot Ion: 83 Resp: 119196

Ion Ratio Lower Upper

83 100

131 10.5 5.8 17.4

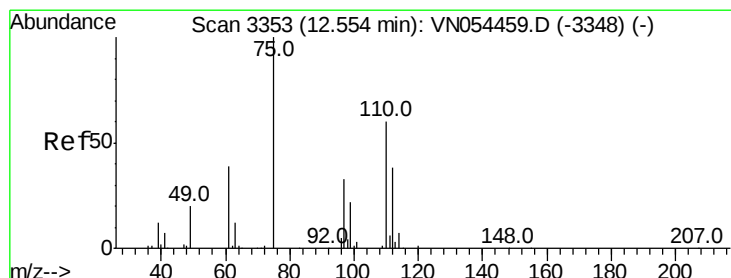
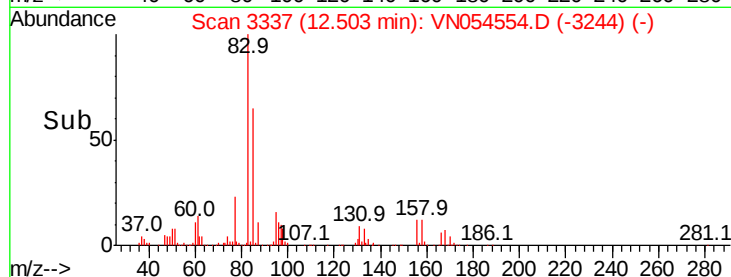
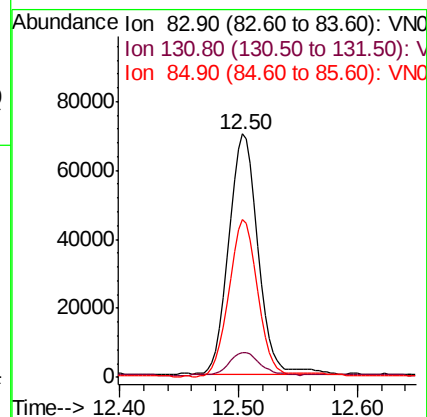
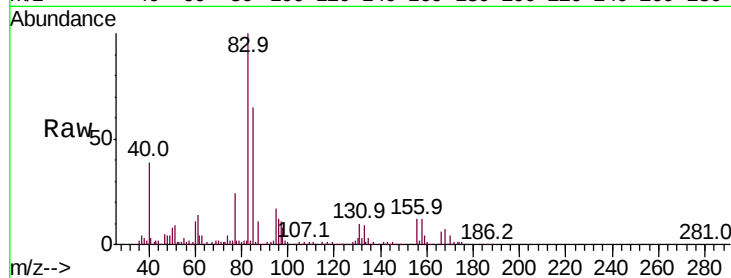
85 63.8 32.2 96.6

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#76

1,2,3-Trichloropropane

Concen: 21.830 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN054554.D

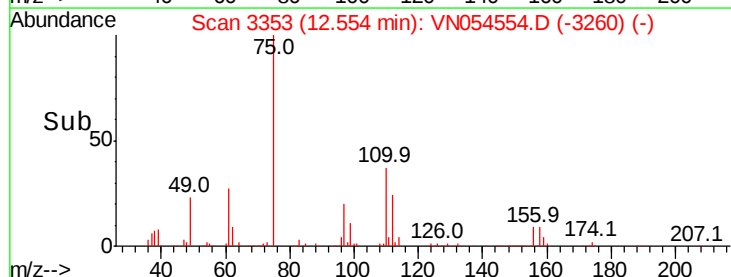
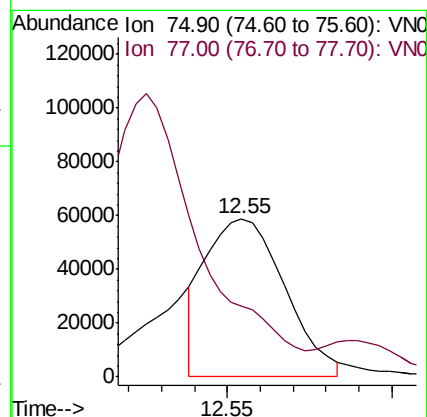
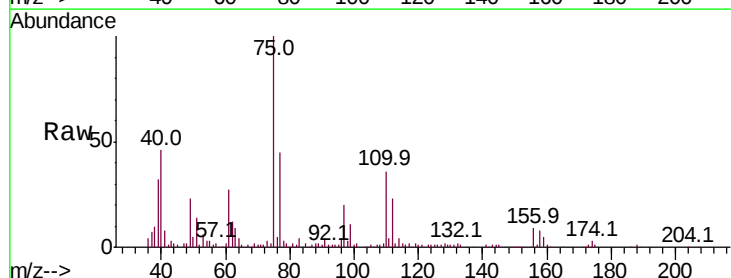
Acq: 22 Mar 2019 13:30

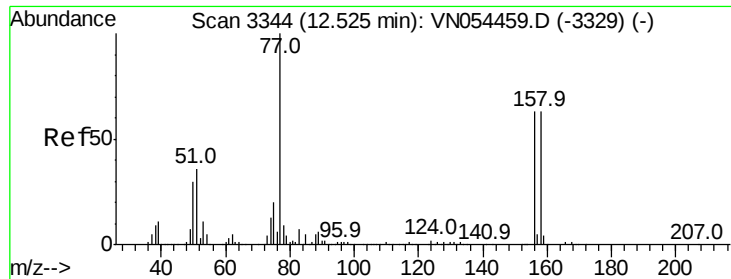
Tgt Ion: 75 Resp: 98289

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





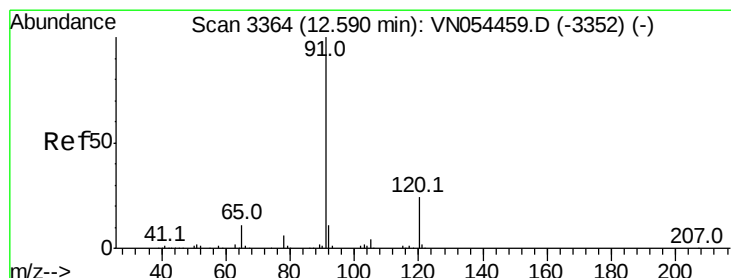
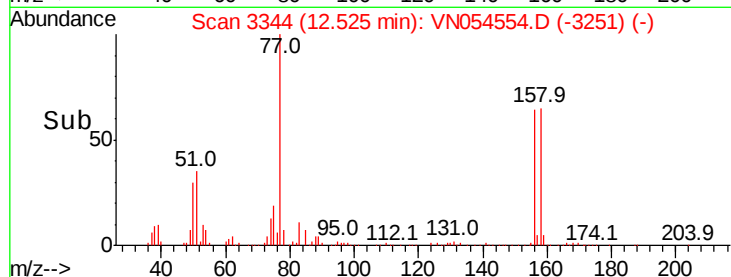
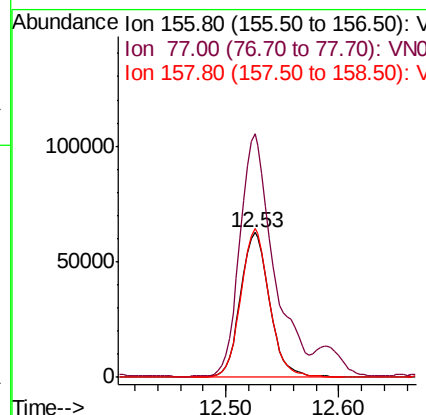
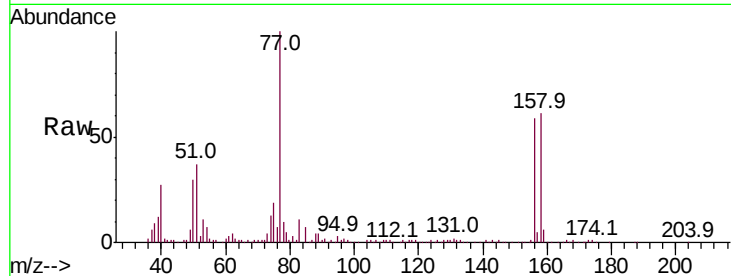
#77
Bromobenzene
Concen: 19.962 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Instrument :
MSVOA_N
ClientSampled :
VN0322MBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	192.0	81.5	244.4
158	98.5	49.0	147.2

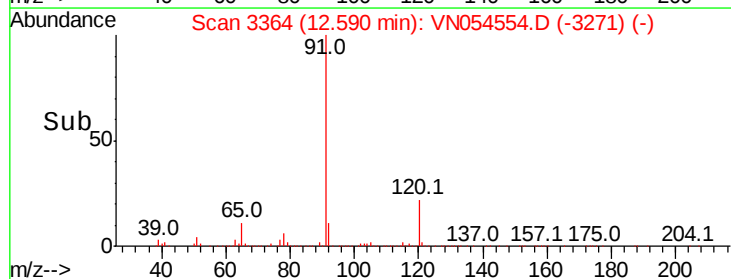
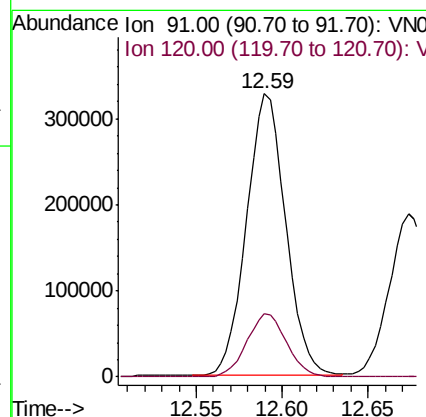
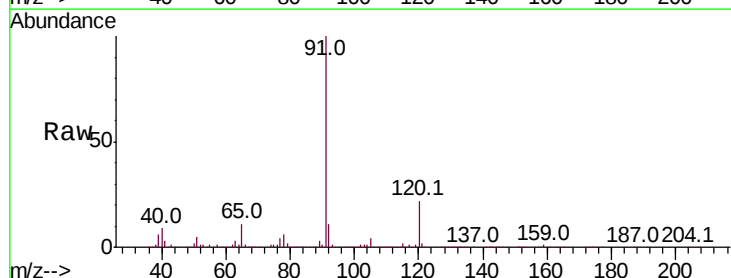
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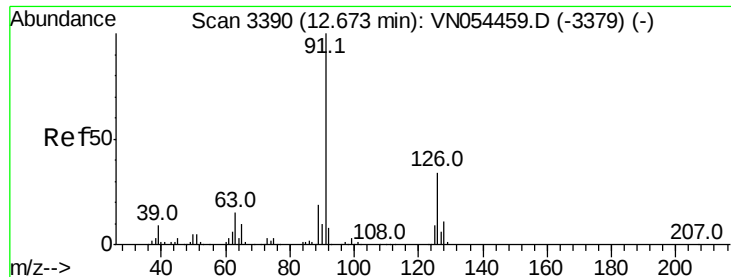
MMDadoda
3/25/2019 3:11:01 PM



#78
n-propylbenzene
Concen: 20.811 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.7	12.3	36.9





#79

2-Chlorotoluene

Concen: 20.345 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampled :

VN0322MBS01

Tot Ion: 91 Resp: 314553

Ion Ratio Lower Upper

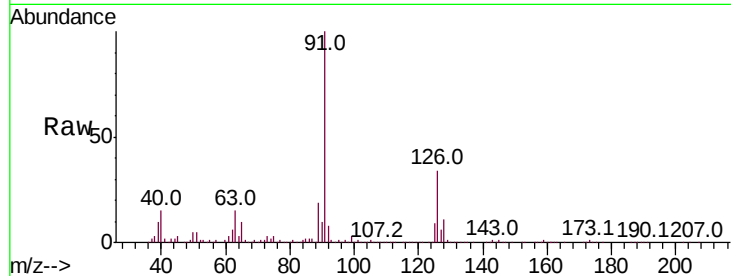
91 100

126 34.0 18.7 56.1

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Abundance Ion 91.00 (90.70 to 91.70): VN054459.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN054459.D (-3379) (-)

250000

200000

150000

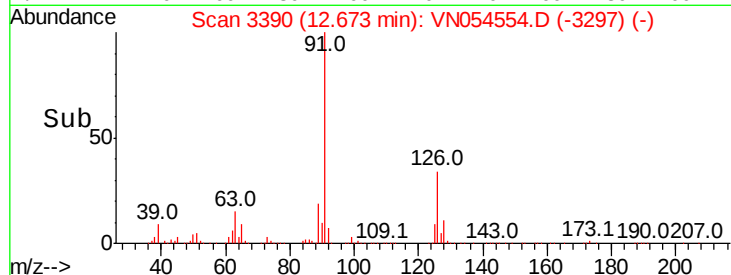
100000

50000

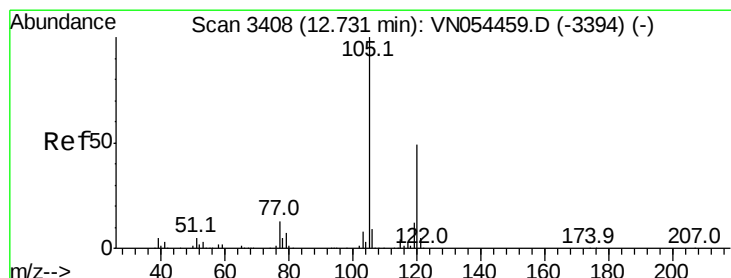
0

12.60 12.65 12.70

12.67



Time--> 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 20.835 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054554.D

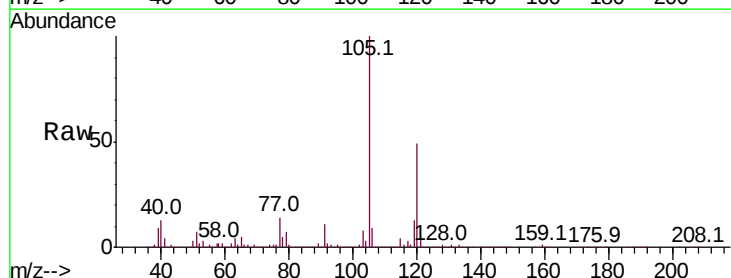
Acq: 22 Mar 2019 13:30

Tgt Ion: 105 Resp: 390433

Ion Ratio Lower Upper

105 100

120 48.9 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VN054459.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN054459.D (-3394) (-)

250000

200000

150000

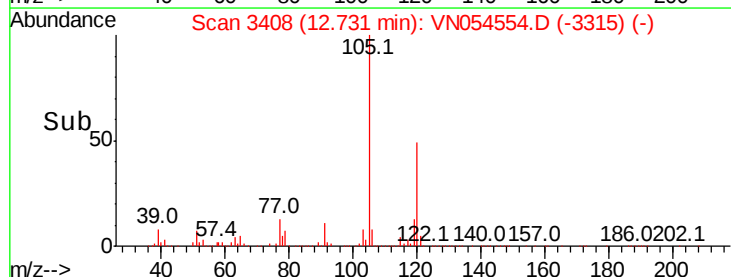
100000

50000

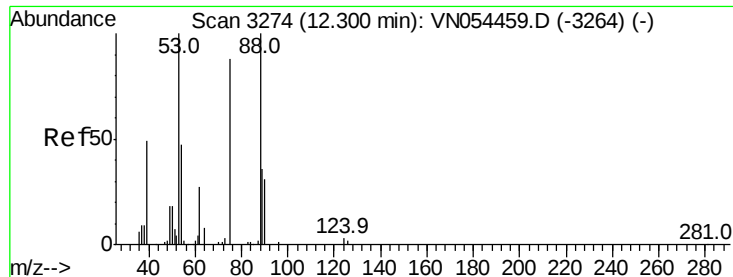
0

12.65 12.70 12.75 12.80

12.73



Time--> 12.65 12.70 12.75 12.80



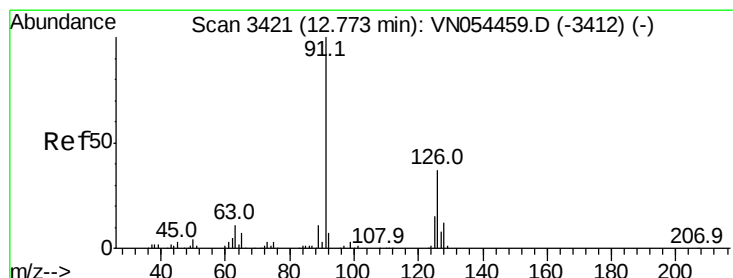
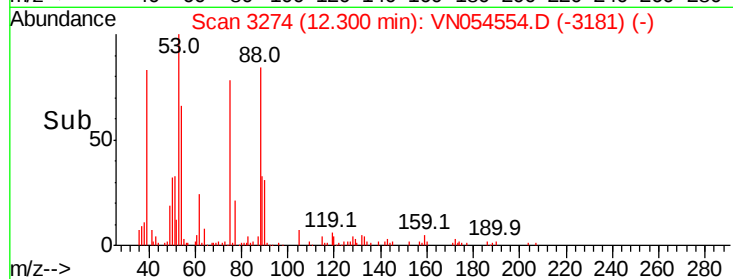
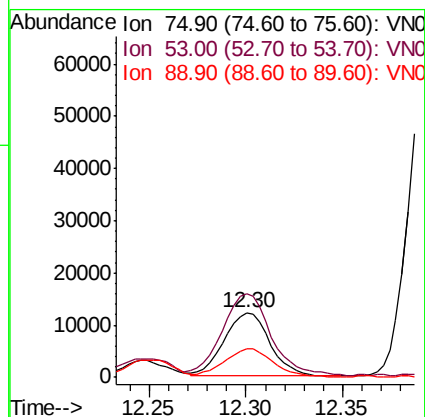
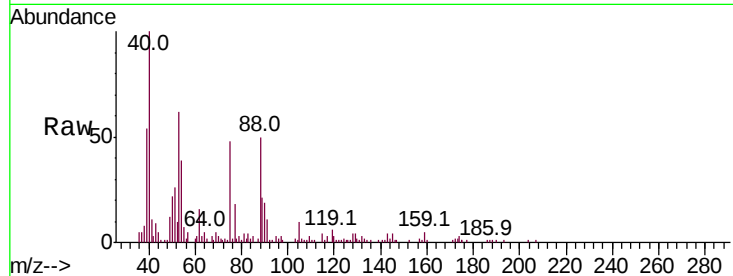
#81
trans-1,4-Dichloro-2-butene
Concen: 17.647 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VN0322MBS01

Tot Ion: 75 Resp: 20186
Ion Ratio Lower Upper
75 100
53 134.9 76.2 114.2#
89 48.3 39.2 58.8

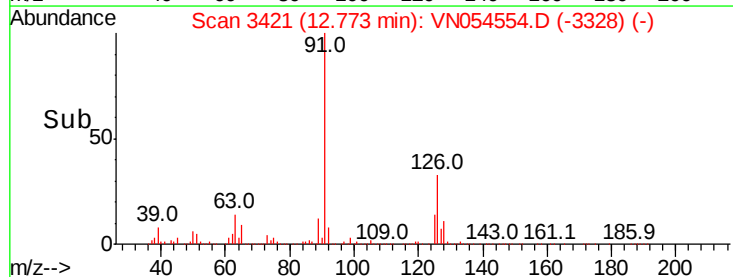
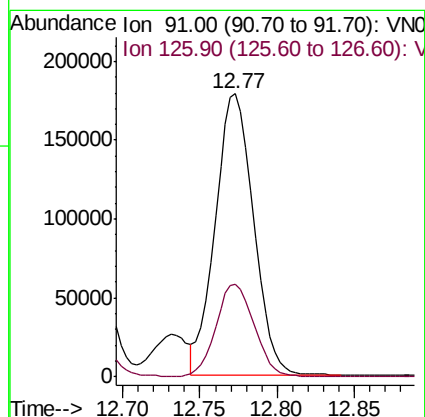
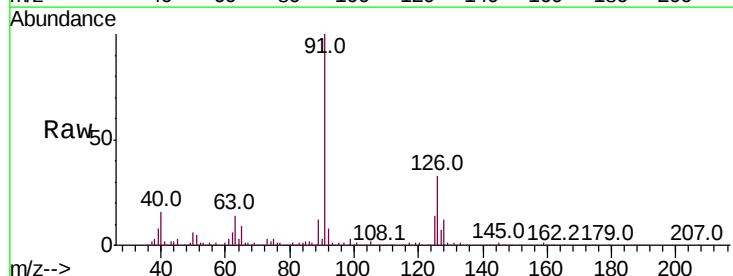
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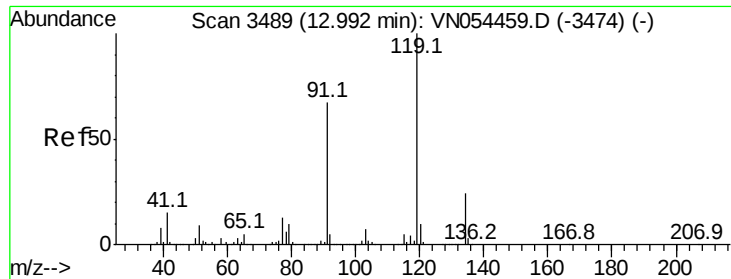
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#82
4-Chlorotoluene
Concen: 20.536 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Tgt Ion: 91 Resp: 307762
Ion Ratio Lower Upper
91 100
126 33.1 18.1 54.1





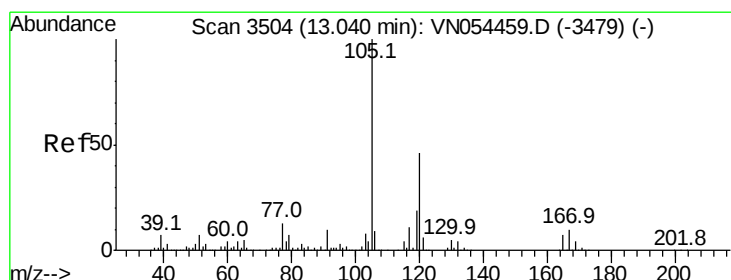
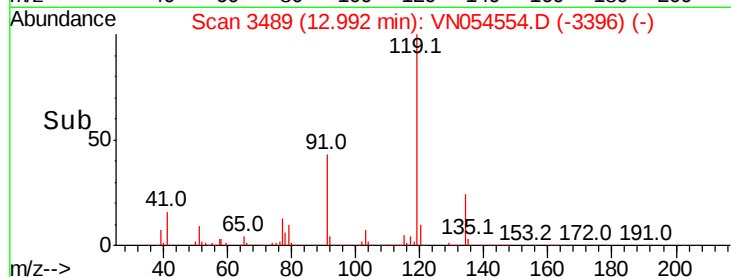
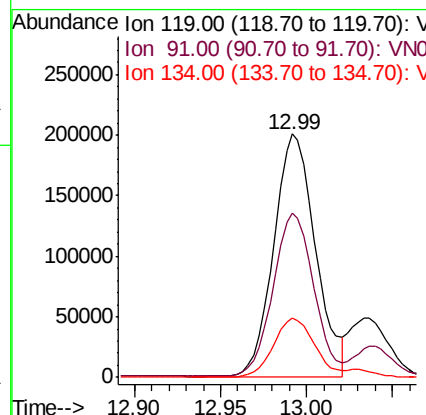
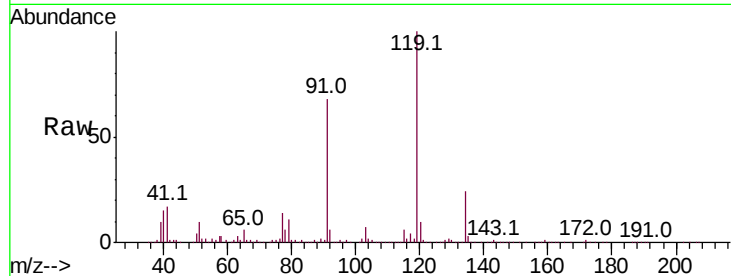
#83
tert-Butylbenzene
Concen: 20.650 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VN0322MBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.6	30.9	92.8
134	24.1	13.2	39.6

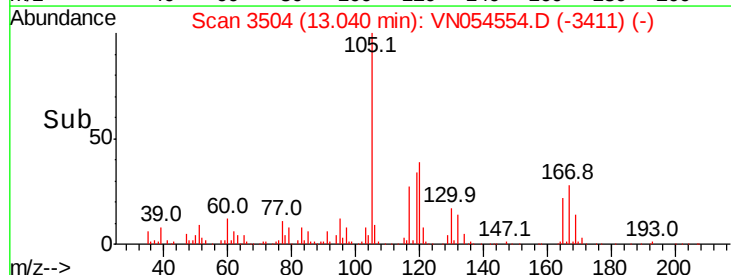
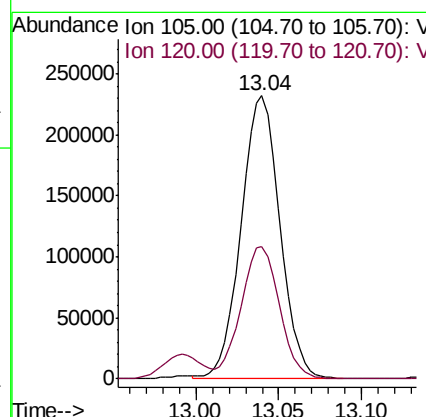
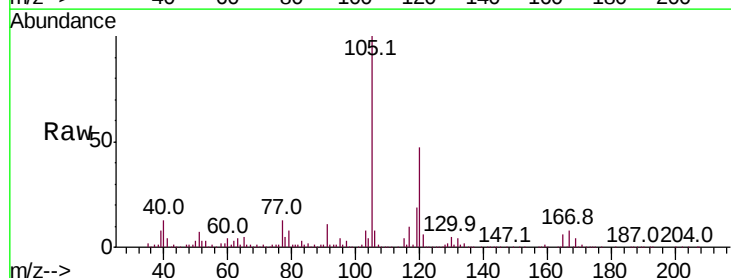
Manual Integrations
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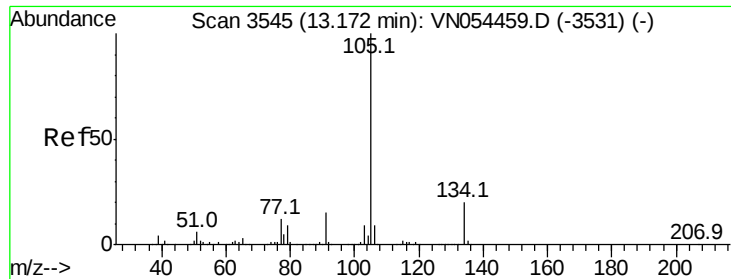
MMDadoda
3/25/2019 3:11:01 PM



#84
1,2,4-Trimethylbenzene
Concen: 20.343 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.4	70.3





#85

sec-Butylbenzene

Concen: 20.799 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

ClientSampled :

VN0322MBS01

Tot Ion:105 Resp: 422913

Ion Ratio Lower Upper

105 100

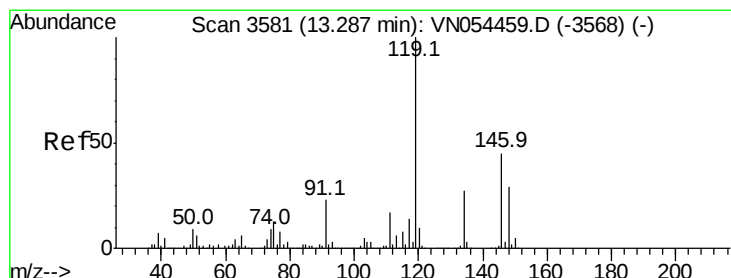
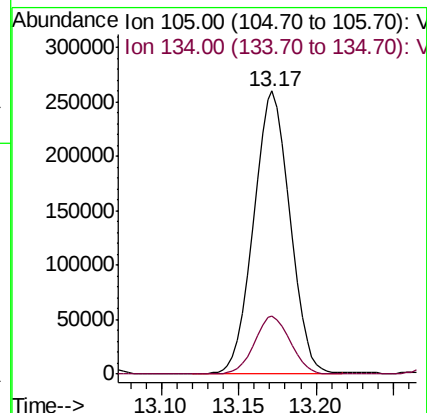
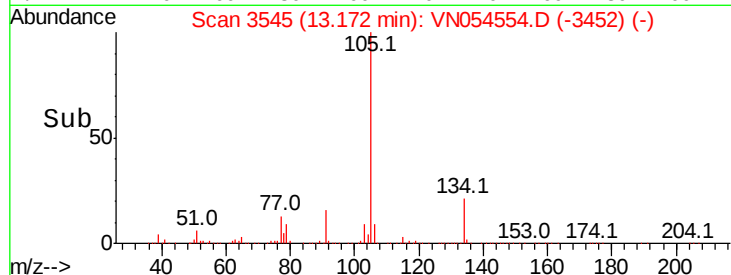
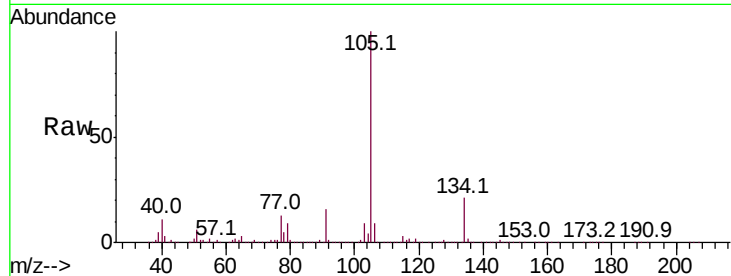
134 20.4 10.7 32.1

Manual Integrations

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3/25/2019 3:11:01 PM



#86

p-Isopropyltoluene

Concen: 20.885 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

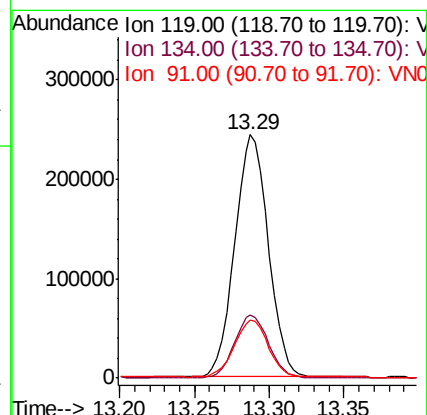
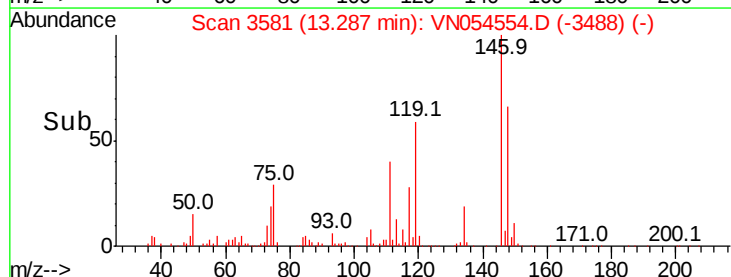
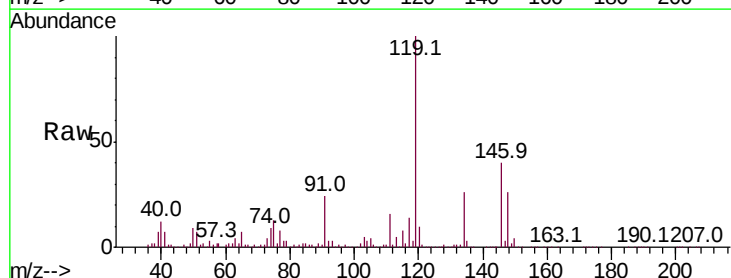
Tgt Ion:119 Resp: 379923

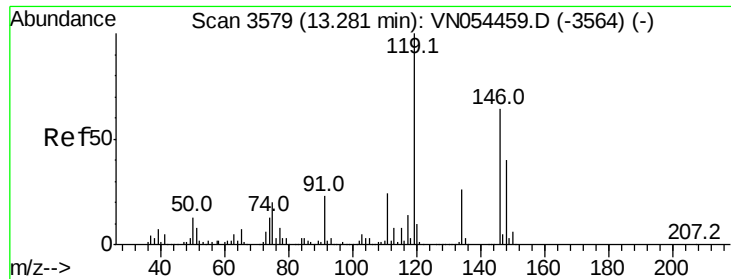
Ion Ratio Lower Upper

119 100

134 26.2 13.6 40.8

91 23.8 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 19.670 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN054554.D

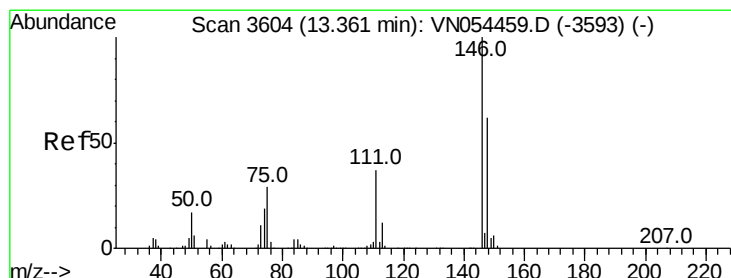
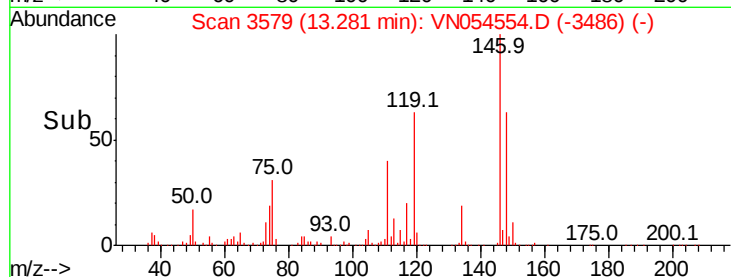
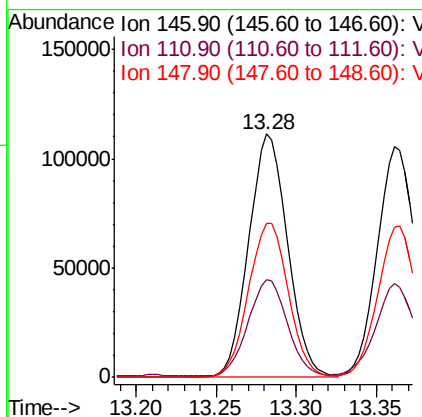
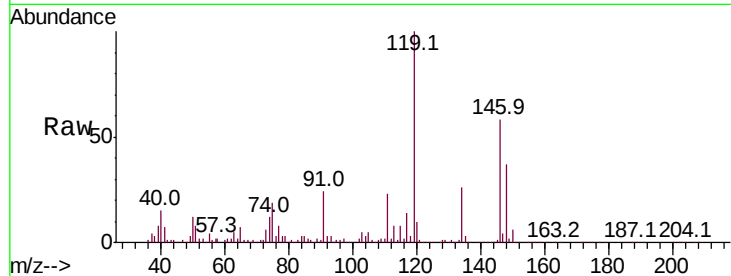
Acq: 22 Mar 2019 13:30

Instrument :
MSVOA_N
ClientSampled :
VN0322MBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	184836		
111	39.8	18.8	56.3	
148	65.3	32.2	96.6	

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 19.384 ug/l

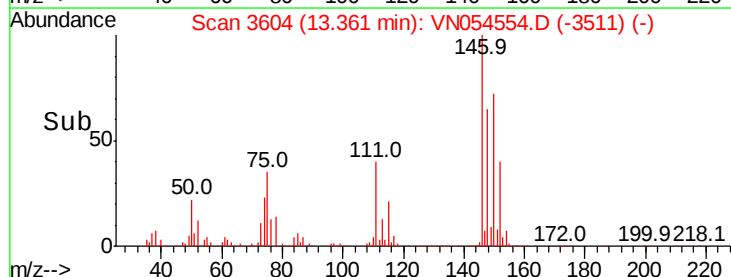
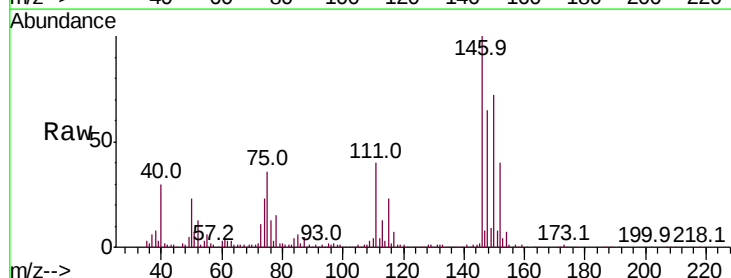
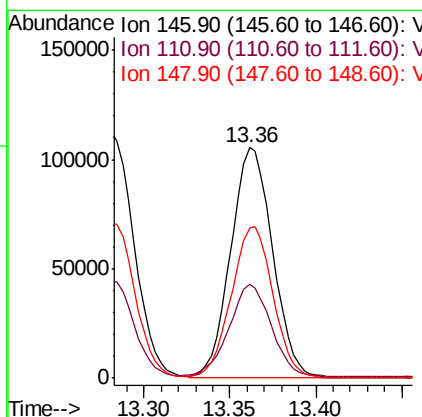
RT: 13.36 min Scan# 3604

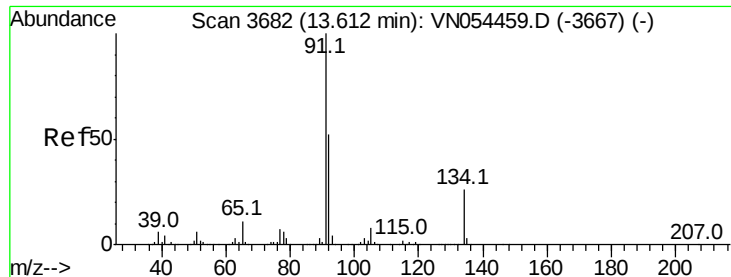
Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	177226		
111	40.9	18.1	54.1	
148	65.5	32.0	96.0	





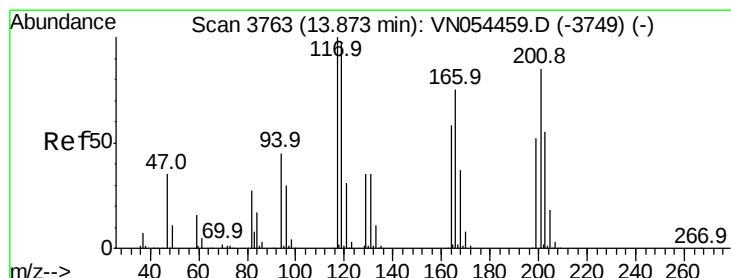
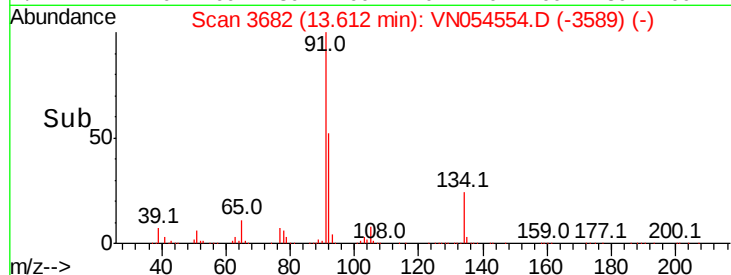
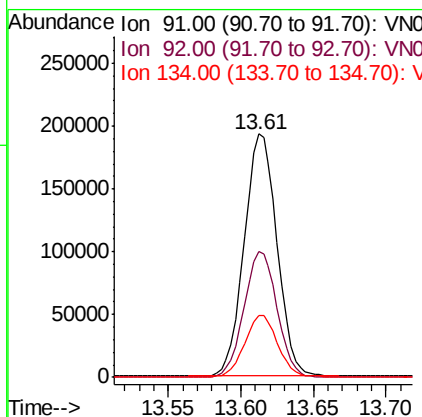
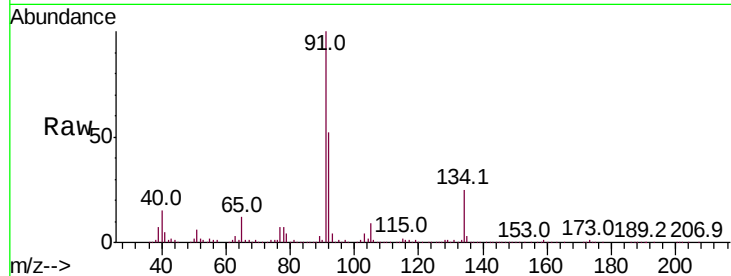
#89
n-Butylbenzene
Concen: 21.206 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Instrument :
MSVOA_N
ClientSampled :
VN0322MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.2	78.6
134	26.5	14.3	42.9

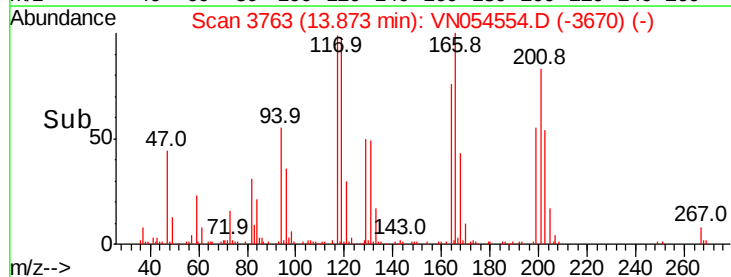
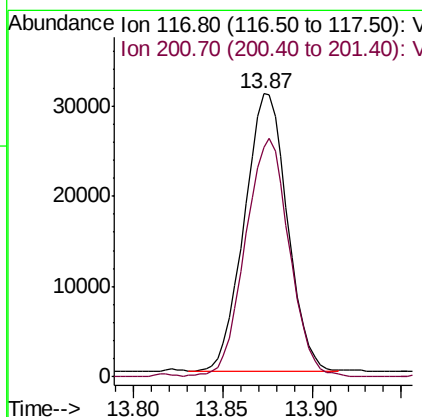
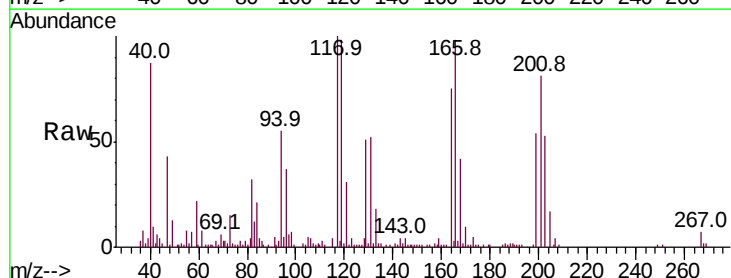
Manual Integrations
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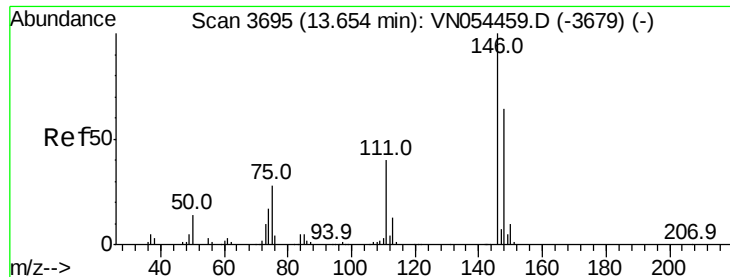
MMDadoda
3/25/2019 3:11:01 PM



#90
Hexachloroethane
Concen: 18.257 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN054554.D
Acq: 22 Mar 2019 13:30

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.4	48.1	144.4





#91

1,2-Dichlorobenzene

Concen: 20.690 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

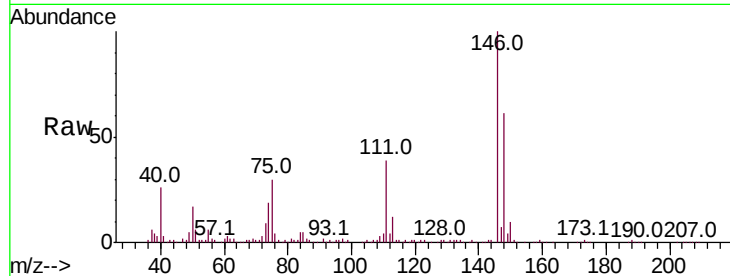
ClientSampleId :

VN0322MBS01

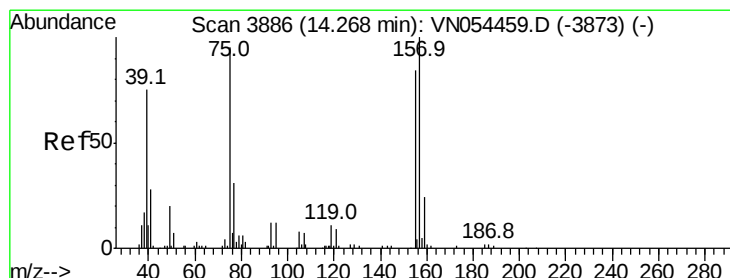
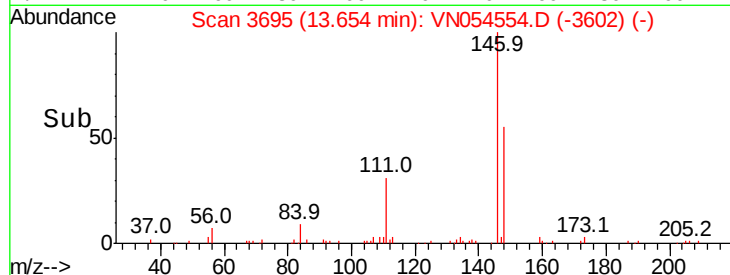
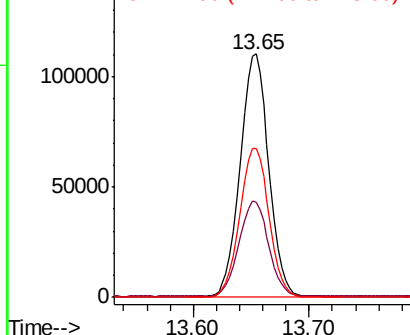
Tot Ion:	146	Resp:	188314
Ion Ratio	Lower	Upper	
146	100		
111	40.5	19.1	57.3
148	62.9	32.4	97.0

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Abundance Ion 145.90 (145.60 to 146.60): V
150000
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.006 ug/l

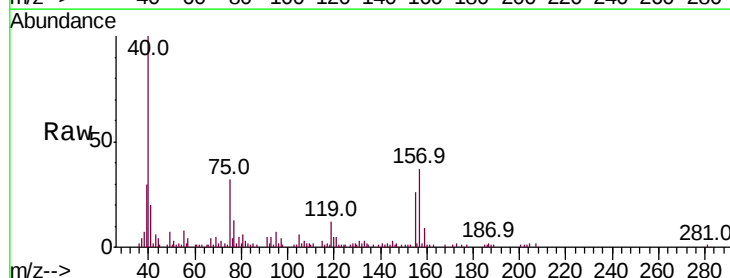
RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

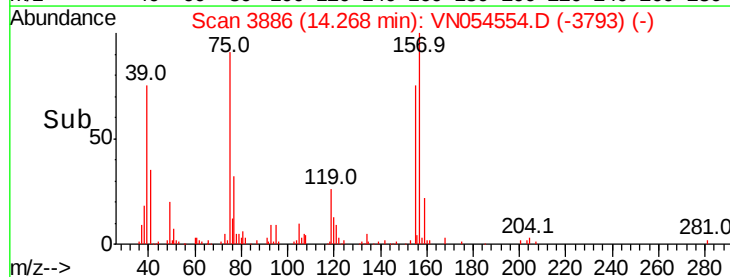
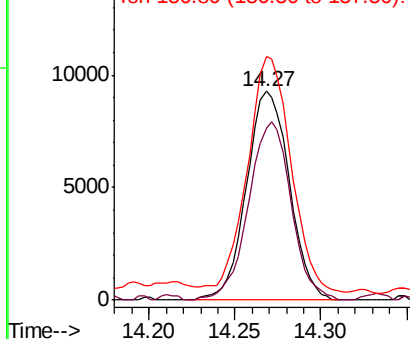
Lab File: VN054554.D

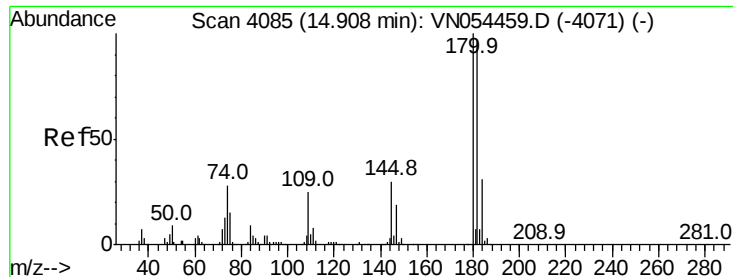
Acq: 22 Mar 2019 13:30

Tgt Ion:	75	Resp:	16081
Ion Ratio	Lower	Upper	
75	100		
155	84.7	50.1	150.3
157	113.3	63.1	189.3



Abundance Ion 74.90 (74.60 to 75.60): V
15000
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 20.871 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

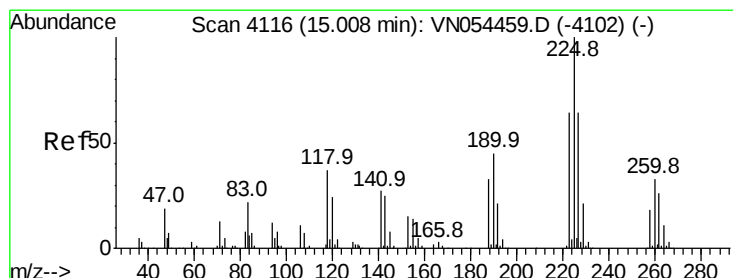
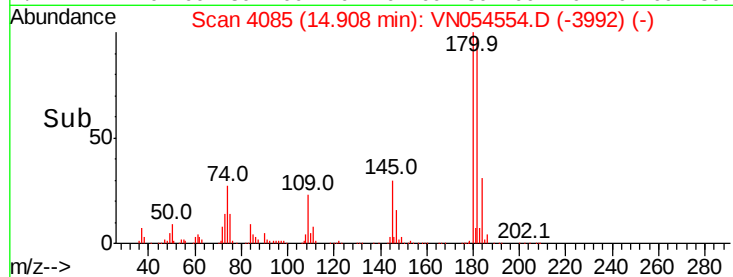
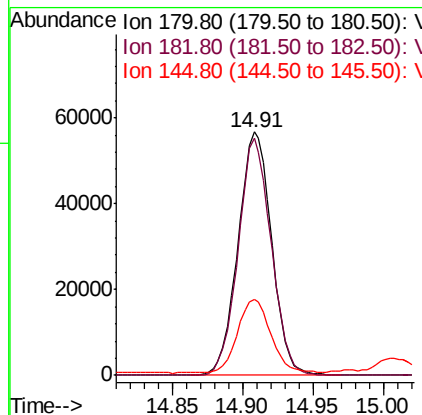
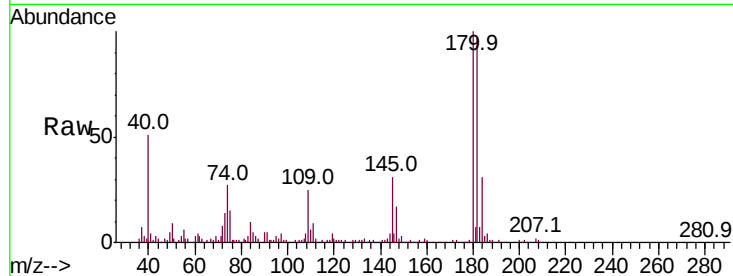
ClientSampleId :

VN0322MBS01

Tot Ion:	180	Resp:	94698
Ion Ratio	Lower	Upper	
180	100		
182	95.3	48.0	144.2
145	30.0	14.2	42.8

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#94

Hexachlorobutadiene

Concen: 22.139 ug/l

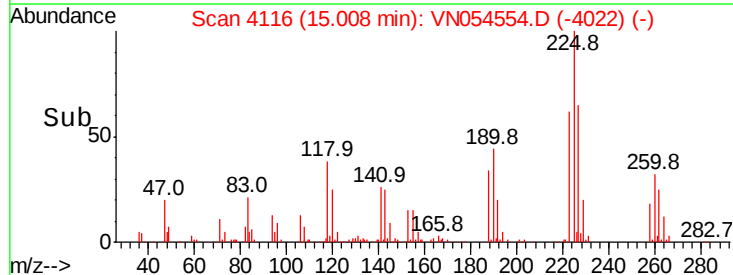
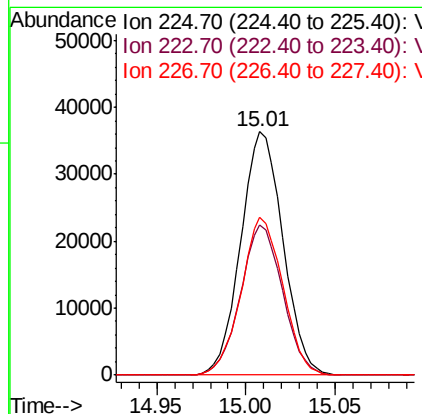
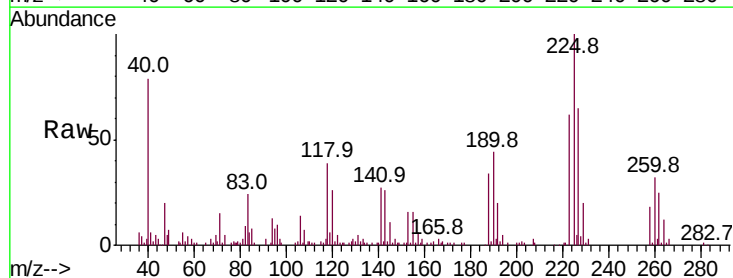
RT: 15.01 min Scan# 4116

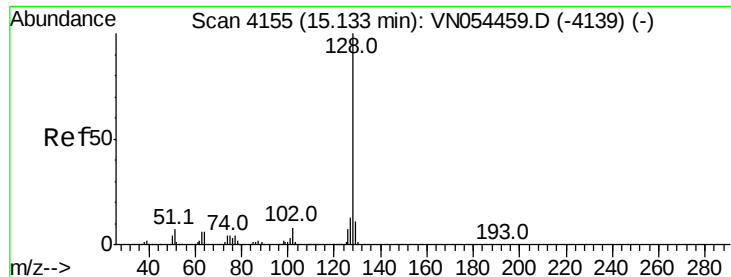
Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Tgt Ion:	225	Resp:	59959
Ion Ratio	Lower	Upper	
225	100		
223	61.5	31.1	93.5
227	63.9	31.9	95.9





#95

Naphthalene

Concen: 22.142 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Instrument :

MSVOA_N

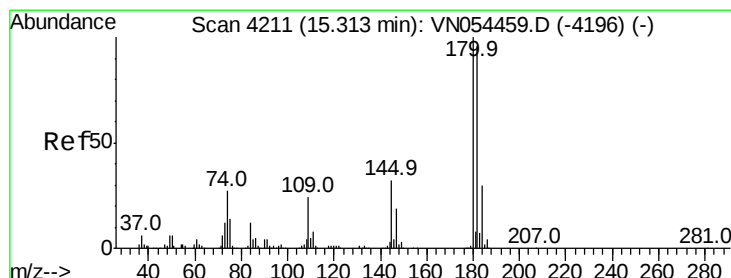
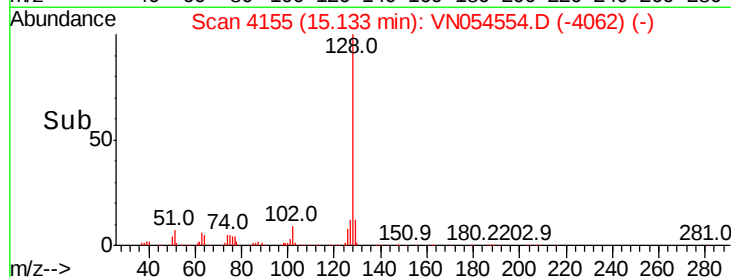
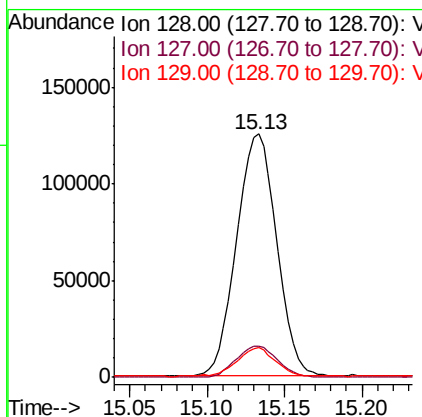
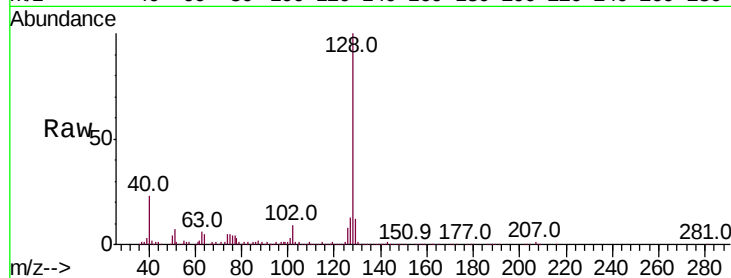
ClientSampleId :

VN0322MBS01

Tot Ion:	128	Resp:	224096
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.1	15.1
129	11.5	8.7	13.1

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#96

1,2,3-Trichlorobenzene

Concen: 21.552 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054554.D

Acq: 22 Mar 2019 13:30

Tgt Ion:	180	Resp:	97327
Ion Ratio	Lower	Upper	
180	100		
182	94.7	47.5	142.6
145	32.1	14.8	44.3

