

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031619\
 Data File : VN054357.D
 Acq On : 17 Mar 2019 1:26
 Operator : JC/SP
 Sample : VN0316WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBS02

Manual Integrations
 APPROVED

MMDadoda
 3/18/2019 12:05:45 PM

Quant Time: Mar 18 08:01:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1148749	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1837913	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1590263	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	702585	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	669798	54.90	ug/l	0.00
Spiked Amount			Recovery	=	109.80%	
35) Dibromofluoromethane	7.59	113	610063	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	
50) Toluene-d8	10.09	98	2158203	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
62) 4-Bromofluorobenzene	12.40	95	717596	46.85	ug/l	0.00
Spiked Amount			Recovery	=	93.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	227638	20.909	ug/l	99
3) Chloromethane	2.06	50	217196	20.538	ug/l	100
4) Vinyl Chloride	2.19	62	254462	21.052	ug/l	99
5) Bromomethane	2.57	94	179614	21.455	ug/l	97
6) Chloroethane	2.71	64	152251	20.818	ug/l	98
7) Trichlorofluoromethane	3.02	101	327238	20.362	ug/l	100
8) Diethyl Ether	3.41	74	176087	24.044	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.75	101	255231	21.194	ug/l	99
10) Methyl Iodide	3.94	142	383206	23.233	ug/l	100
11) Tert butyl alcohol	4.82	59	86537	103.470	ug/l #	90
12) 1,1-Dichloroethene	3.73	96	263716	22.097	ug/l	98
13) Acrolein	3.61	56	68435	86.352	ug/l	97
14) Allyl chloride	4.32	41	308541	20.150	ug/l	99
15) Acrylonitrile	5.00	53	423492	123.271	ug/l	99
16) Acetone	3.82	43	315507	90.324	ug/l	100
17) Carbon Disulfide	4.04	76	509326	17.024	ug/l	98
18) Methyl Acetate	4.33	43	199075	28.169	ug/l	99
19) Methyl tert-butyl Ether	5.06	73	681090	23.024	ug/l	99
20) Methylene Chloride	4.55	84	256866	22.395	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	244408	21.374	ug/l	98
22) Diisopropyl ether	5.96	45	697343	22.819	ug/l	99
23) Vinyl Acetate	5.90	43	2414709	107.167	ug/l	100
24) 1,1-Dichloroethane	5.85	63	438588	22.352	ug/l	100
25) 2-Butanone	6.85	43	472726	115.305	ug/l	98
26) 2,2-Dichloropropane	6.82	77	228555	13.245	ug/l	96
27) cis-1,2-Dichloroethene	6.83	96	289129	22.665	ug/l	96
28) Bromochloromethane	7.19	49	182833	22.792	ug/l	98
29) Tetrahydrofuran	7.22	42	320881	121.730	ug/l	99
30) Chloroform	7.37	83	473810	23.140	ug/l	97
31) Cyclohexane	7.65	56	379791	19.965	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	397233	21.481	ug/l	98
36) 1,1-Dichloropropene	7.79	75	334219	19.746	ug/l	100
37) Ethyl Acetate	6.94	43	219104	22.529	ug/l	99
38) Carbon Tetrachloride	7.77	117	333915	18.813	ug/l	99

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	377051	18.106	ug/l	100
40) Benzene	8.04	78	1025926	21.182	ug/l	100
41) Methacrylonitrile	7.18	41	111670	20.110	ug/l	93
42) 1,2-Dichloroethane	8.13	62	350167	21.414	ug/l	99
43) Isopropyl Acetate	8.17	43	345294	20.228	ug/l	99
44) Trichloroethene	8.83	130	310152	20.614	ug/l	98
45) 1,2-Dichloropropane	9.12	63	262324	21.812	ug/l	99
46) Dibromomethane	9.21	93	175567	21.606	ug/l	99
47) Bromodichloromethane	9.40	83	331659	20.359	ug/l	99
48) Methyl methacrylate	9.20	41	186174	21.491	ug/l	100
49) 1,4-Dioxane	9.20	88	59319	484.090	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	1021861	113.115	ug/l	99
52) Toluene	10.16	92	649714	21.156	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	275720	16.196	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	346477	18.252	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	246465	21.979	ug/l	99
56) Ethyl methacrylate	10.43	69	278034	20.794	ug/l	98
57) 1,3-Dichloropropane	10.71	76	399706	21.799	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	544812	104.426	ug/l	100
59) 2-Hexanone	10.75	43	642535	106.892	ug/l	99
60) Dibromochloromethane	10.90	129	247944	19.644	ug/l	100
61) 1,2-Dibromoethane	11.01	107	246128	21.599	ug/l	99
64) Tetrachloroethene	10.63	164	316883	20.610	ug/l	99
65) Chlorobenzene	11.43	112	739932	21.191	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	262434	20.689	ug/l	98
67) Ethyl Benzene	11.51	91	1192319	20.599	ug/l	100
68) m/p-Xylenes	11.62	106	940984	41.594	ug/l	98
69) o-Xylene	11.95	106	470694	21.343	ug/l	98
70) Styrene	11.96	104	723215	20.910	ug/l	99
71) Bromoform	12.13	173	156910	17.815	ug/l	100
73) Isopropylbenzene	12.25	105	1225174	21.796	ug/l	100
74) N-amyl acetate	12.07	43	272829	21.867	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.51	83	286765	23.945	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	247173m	23.923	ug/l	
77) Bromobenzene	12.53	156	321481	21.613	ug/l	99
78) n-propylbenzene	12.59	91	1286760	21.097	ug/l	100
79) 2-Chlorotoluene	12.67	91	802920	21.894	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	992402	21.225	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	38357	12.691	ug/l #	71
82) 4-Chlorotoluene	12.77	91	765620	20.908	ug/l	99
83) tert-Butylbenzene	12.99	119	922291	21.431	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	976514	21.289	ug/l	100
85) sec-Butylbenzene	13.17	105	1144187	20.501	ug/l	100
86) p-Isopropyltoluene	13.29	119	982431	20.064	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	528040	21.068	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	516437	20.975	ug/l	99
89) n-Butylbenzene	13.62	91	688263	18.500	ug/l	100
90) Hexachloroethane	13.88	117	143978	17.758	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	542480	22.140	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	39055	21.074	ug/l	96

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ALS Vial : 30 Sample Multiplier: 1

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ClientSampleId :
VN0316WBS02

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Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	237919	17.791	ug/l	99
94) Hexachlorobutadiene	15.01	225	165459	17.729	ug/l	99
95) Naphthalene	15.13	128	532176	19.541	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	250205	19.219	ug/l	98

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

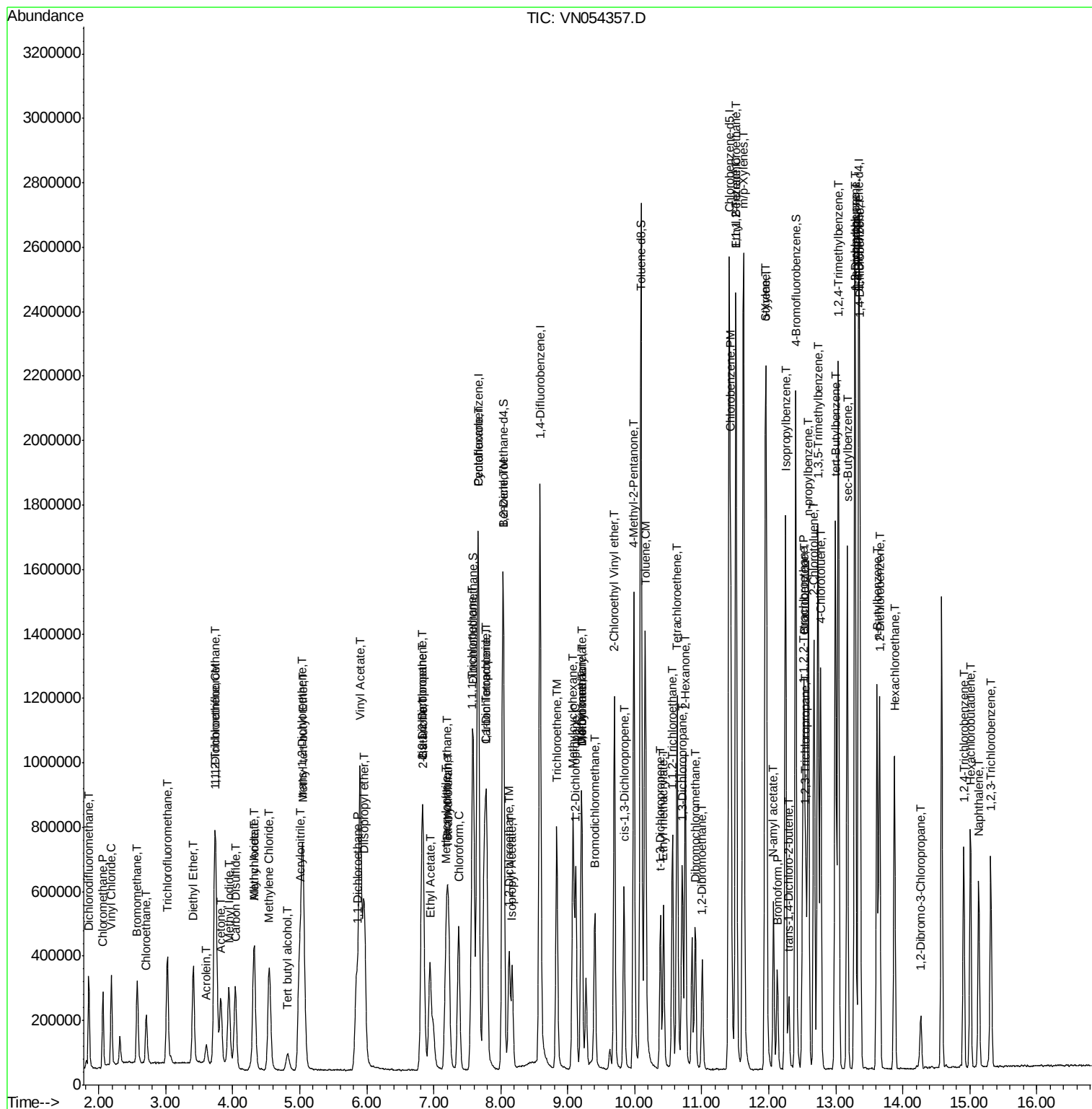
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031619\
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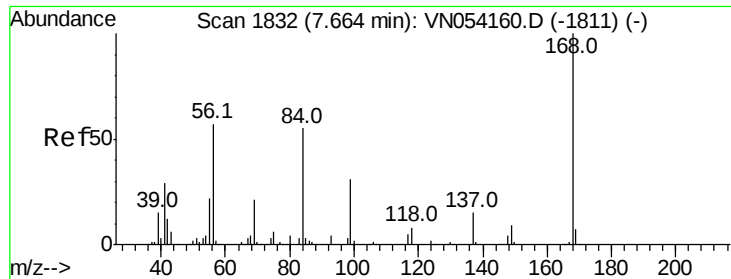
Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

Manual Integrations
APPROVED

MMDadoda
3/18/2019 12:05:45 PM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS02

Tot Ion:168 Resp: 1148749

Ion Ratio Lower Upper

168 100

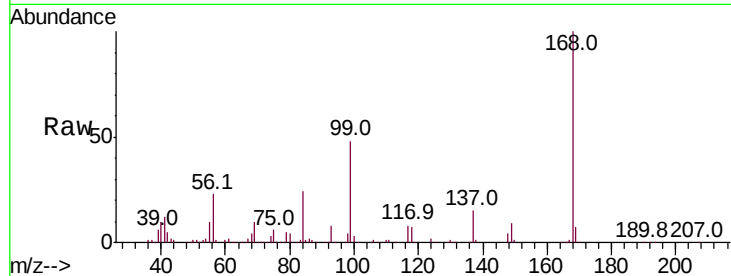
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Manual Integrations

APPROVED

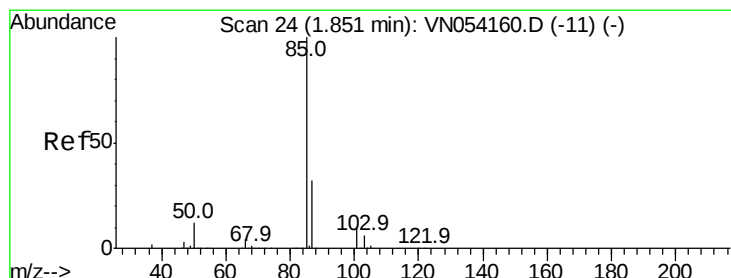
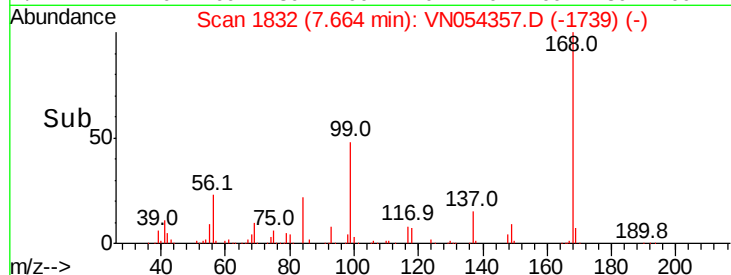
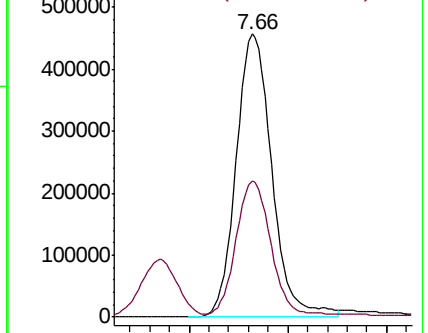
MMDadoda

3/18/2019 12:05:45 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 20.909 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN054357.D

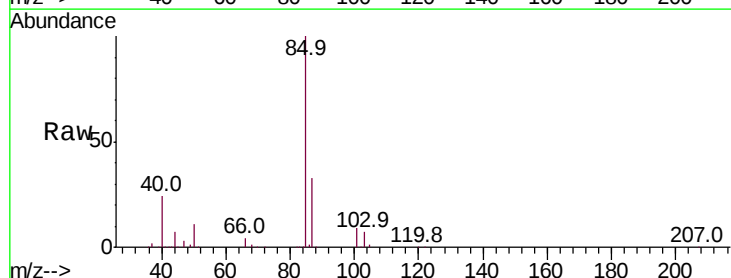
Acq: 17 Mar 2019 1:26

Tgt Ion: 85 Resp: 227638

Ion Ratio Lower Upper

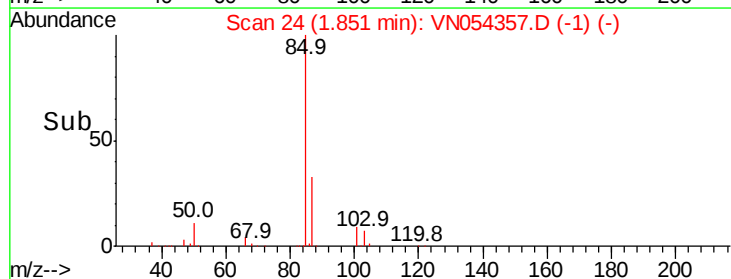
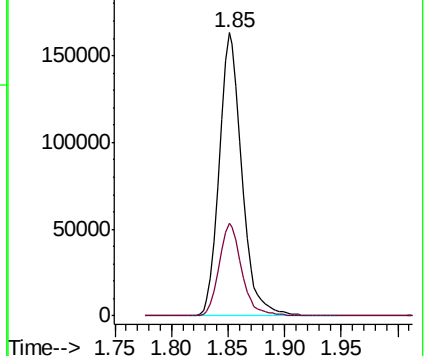
85 100

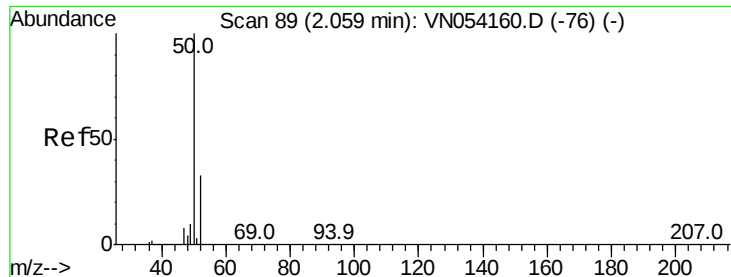
87 32.5 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 20.538 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS02

Tot Ion: 50 Resp: 217196

Ion Ratio Lower Upper

50 100

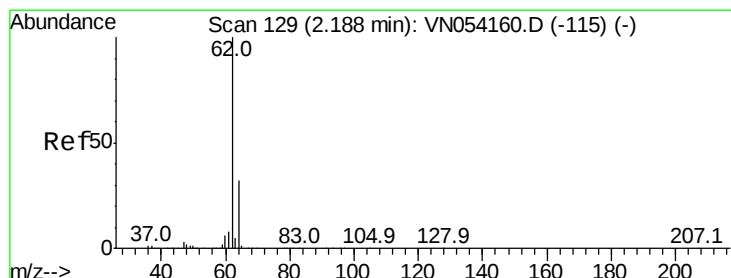
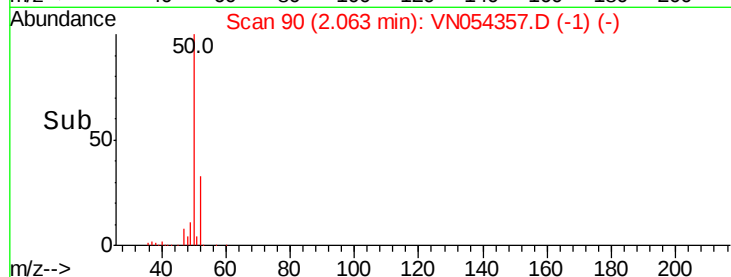
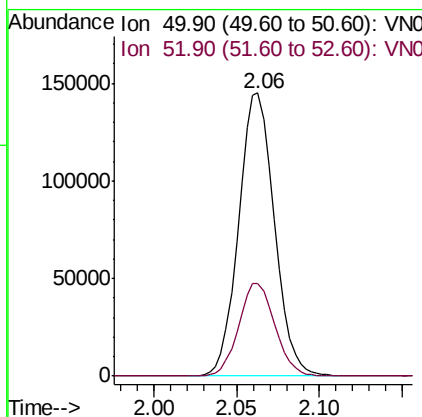
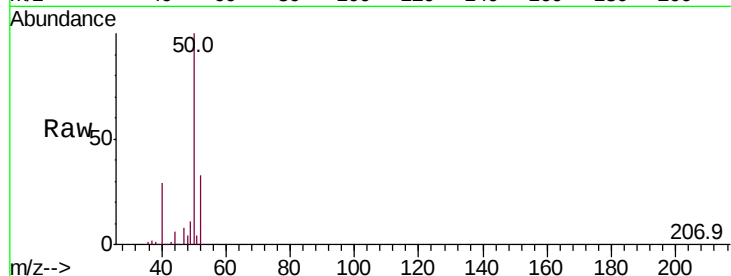
52 33.0 26.4 39.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 21.052 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054357.D

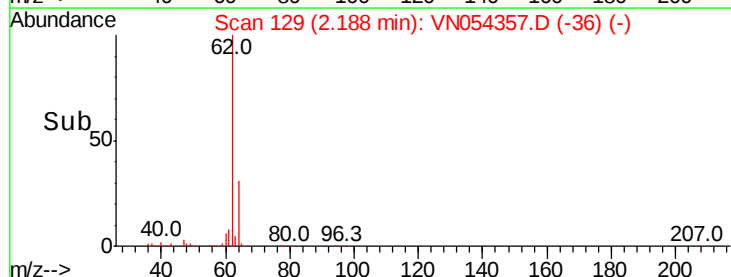
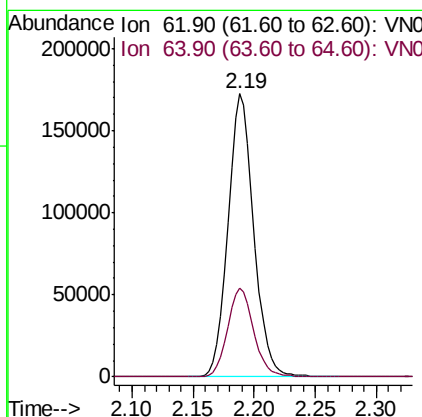
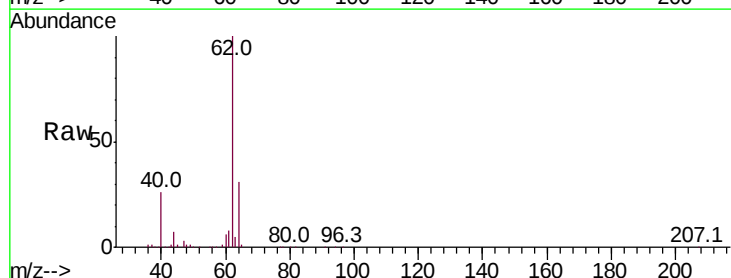
Acq: 17 Mar 2019 1:26

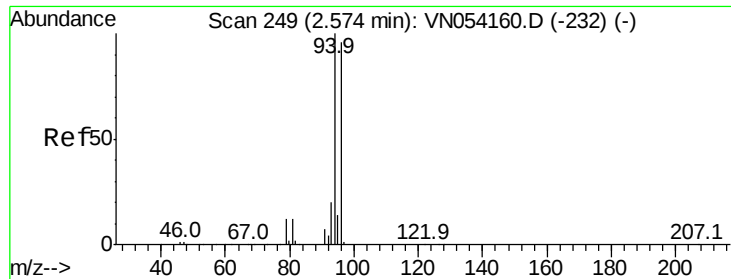
Tgt Ion: 62 Resp: 254462

Ion Ratio Lower Upper

62 100

64 31.2 25.5 38.3





#5

Bromomethane

Concen: 21.455 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

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Tot Ion: 94 Resp: 179614

Ion Ratio Lower Upper

94 100

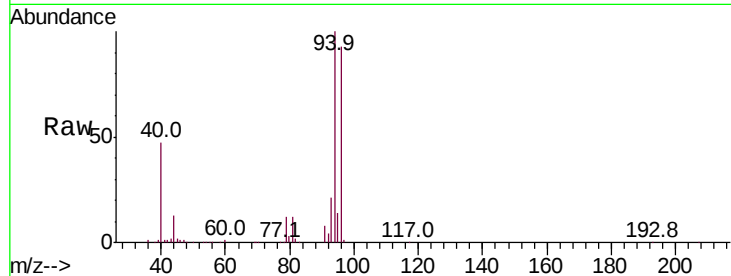
96 93.2 77.0 115.4

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

100000

80000

60000

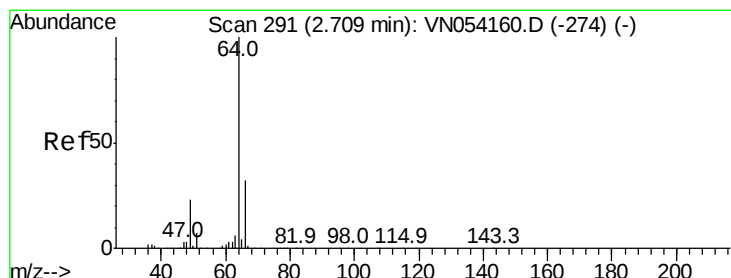
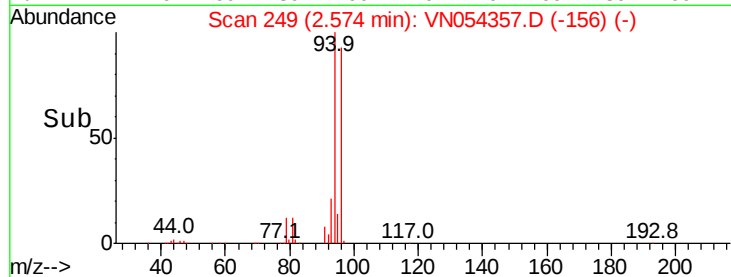
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20000

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Time-->

2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 20.818 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054357.D

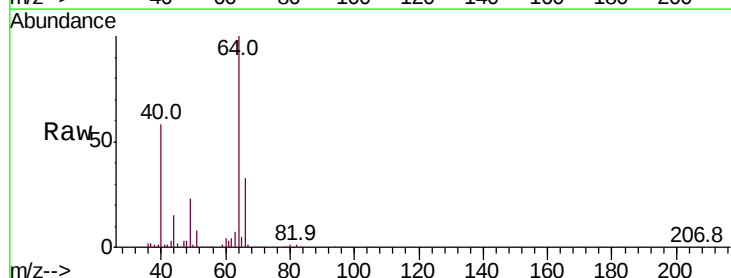
Acq: 17 Mar 2019 1:26

Tgt Ion: 64 Resp: 152251

Ion Ratio Lower Upper

64 100

66 33.4 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO

2.71

80000

60000

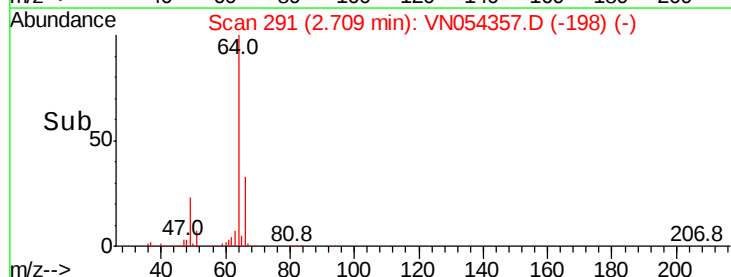
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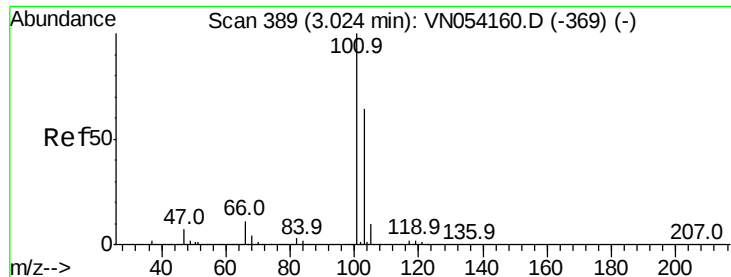
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0

Time-->

2.60 2.70 2.80





#7

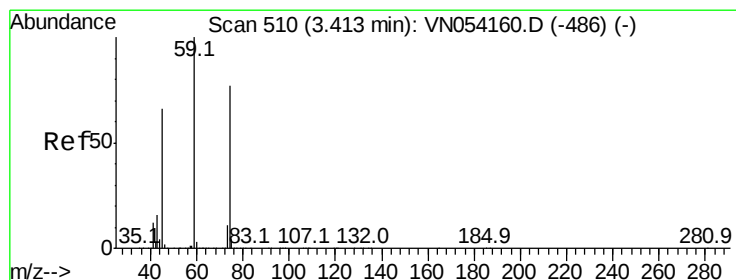
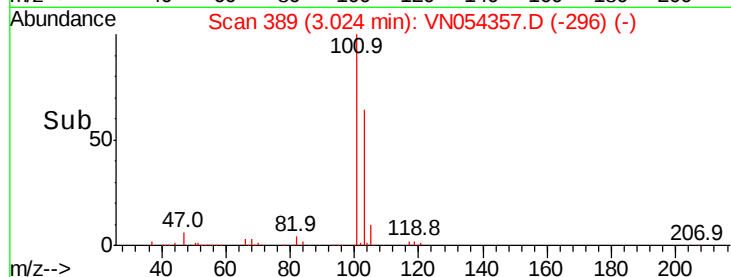
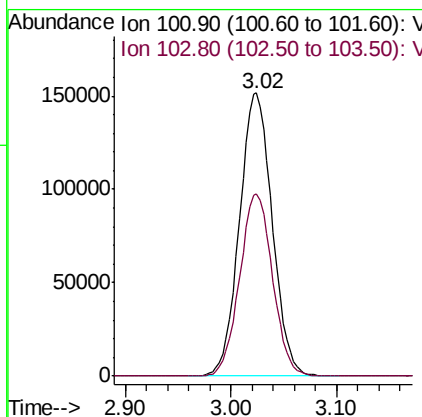
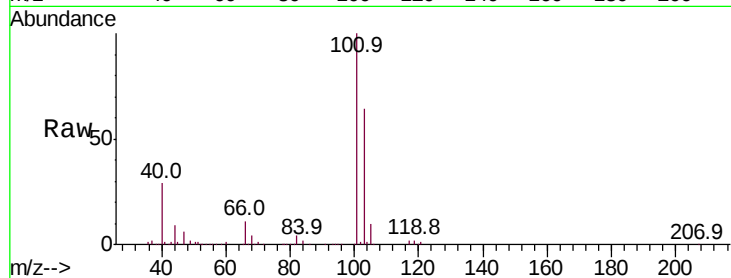
Trichlorofluoromethane
Concen: 20.362 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.4	77.2

Manual Integrations
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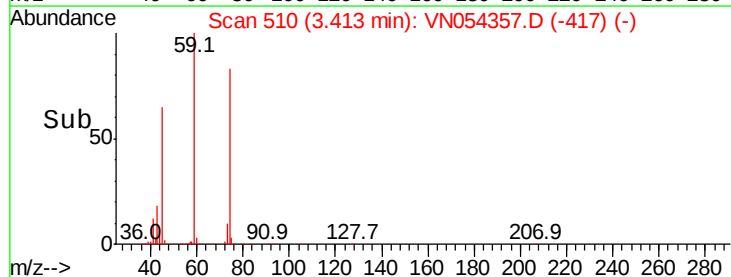
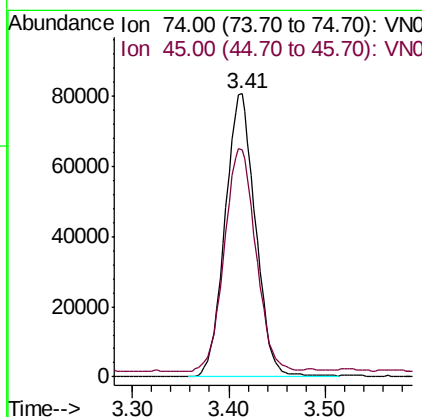
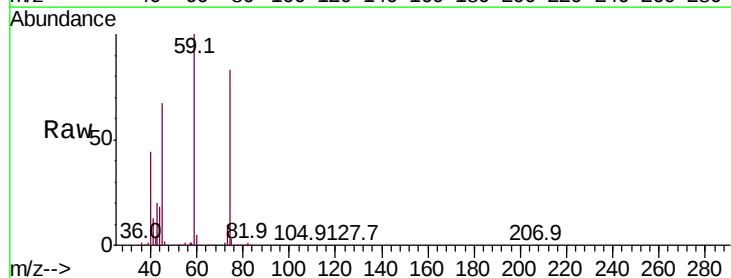
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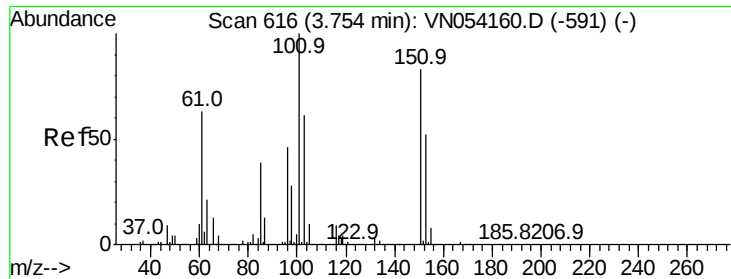


#8

Diethyl Ether
Concen: 24.044 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Lower	Upper
74	100		
45	82.0	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.194 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

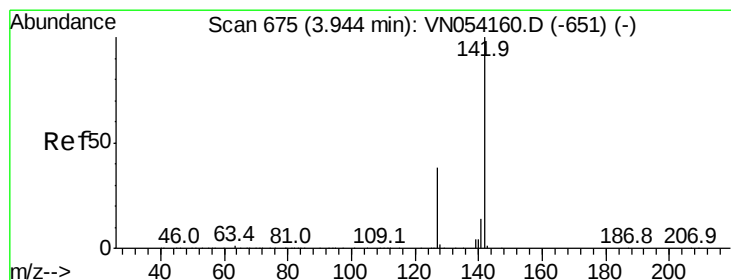
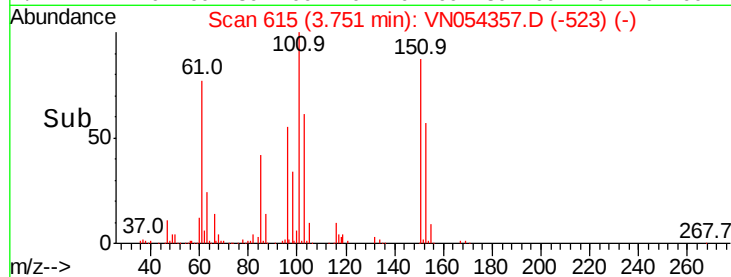
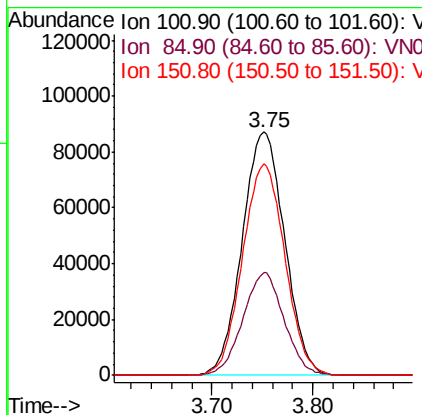
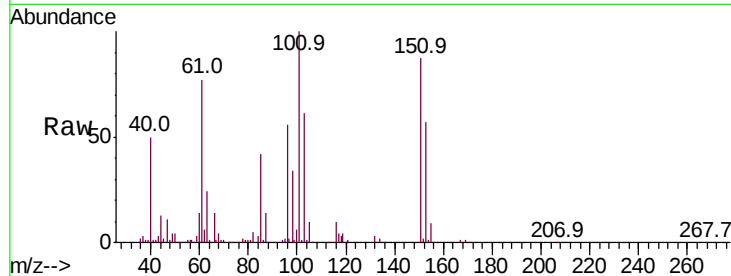
ClientSampleId :

VN0316WBS02

Tot Ion:	101	Resp:	255231
Ion Ratio	Lower	Upper	
101	100		
85	40.9	32.4	48.6
151	86.6	68.2	102.2

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#10

Methyl Iodide

Concen: 23.233 ug/l

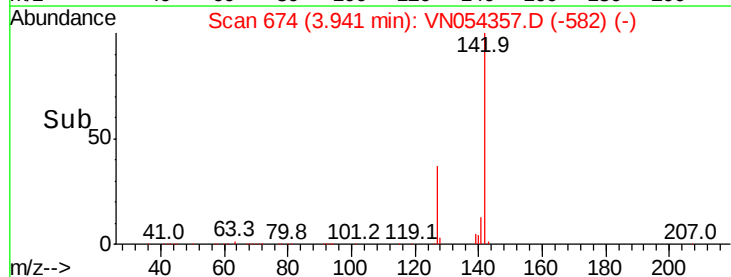
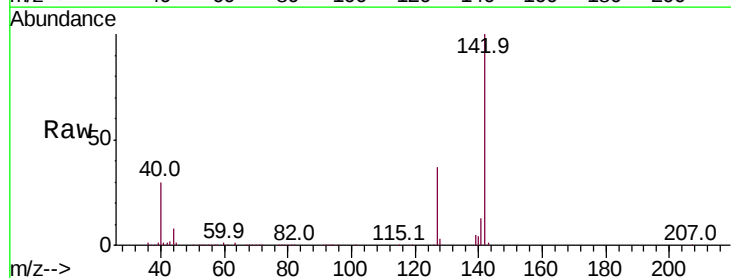
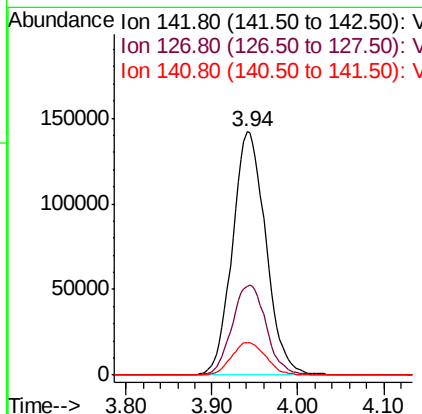
RT: 3.94 min Scan# 674

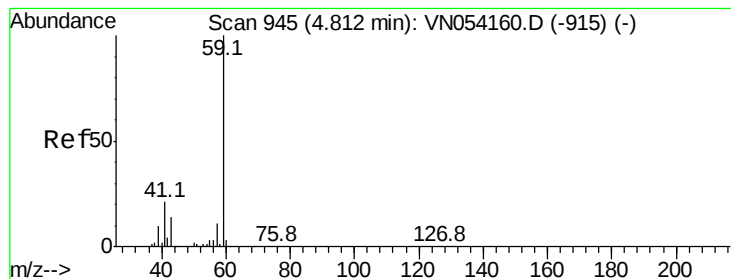
Delta R.T. -0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Tgt Ion:	142	Resp:	383206
Ion Ratio	Lower	Upper	
142	100		
127	38.0	30.3	45.5
141	13.8	11.2	16.8





#11

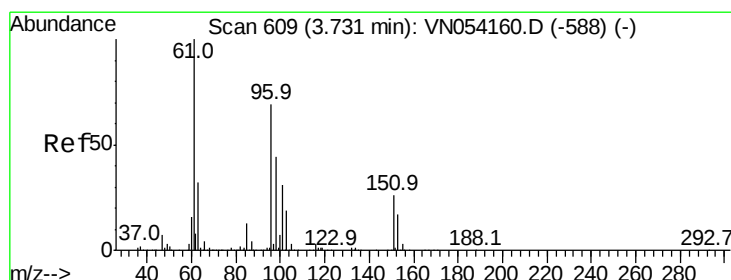
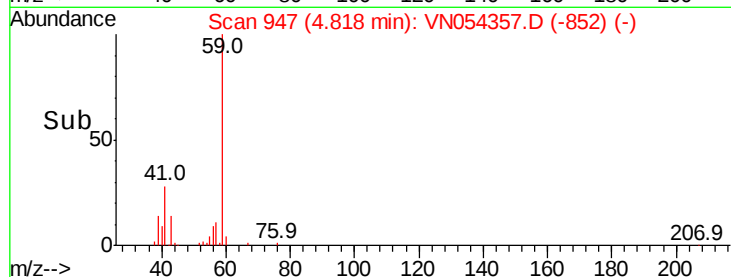
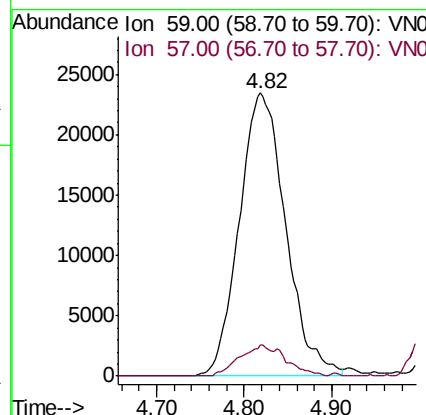
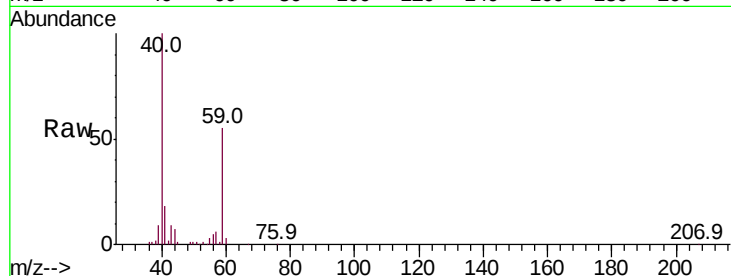
Tert butyl alcohol
 Concen: 103.470 ug/l
 RT: 4.82 min Scan# 947
 Delta R.T. 0.01 min
 Lab File: VN054357.D
 Acq: 17 Mar 2019 1:26

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0316WBS02

Tot Ion	Ratio	Lower	Upper
59	100		
57	7.3	9.0	13.6#

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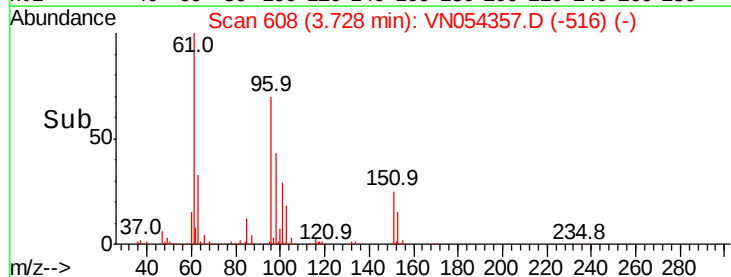
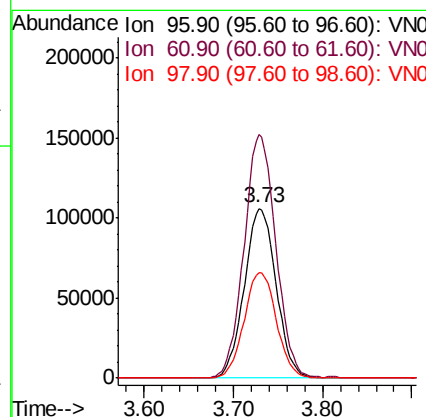
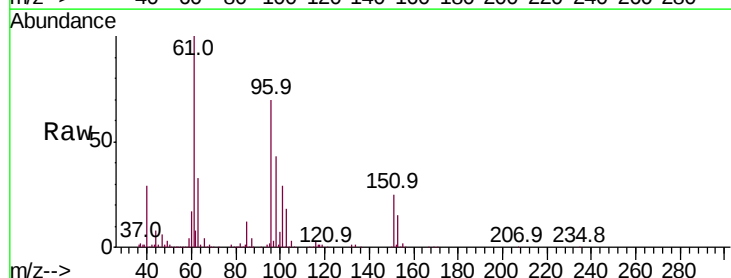
MMDadoda
 3/18/2019 12:05:45 PM

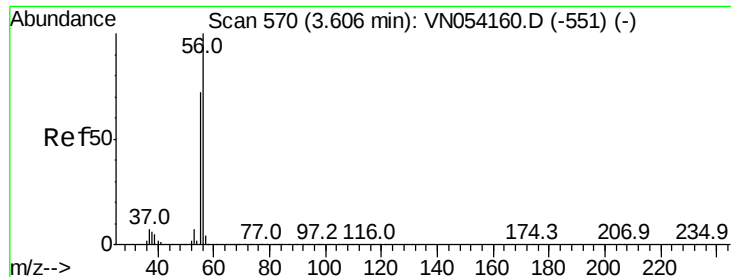


#12

1,1-Dichloroethene
 Concen: 22.097 ug/l
 RT: 3.73 min Scan# 608
 Delta R.T. -0.00 min
 Lab File: VN054357.D
 Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	143.2	116.5	174.7
98	62.2	51.0	76.4





#13

Acrolein

Concen: 86.352 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS02

Tot Ion: 56 Resp: 68435

Ion Ratio Lower Upper

56 100

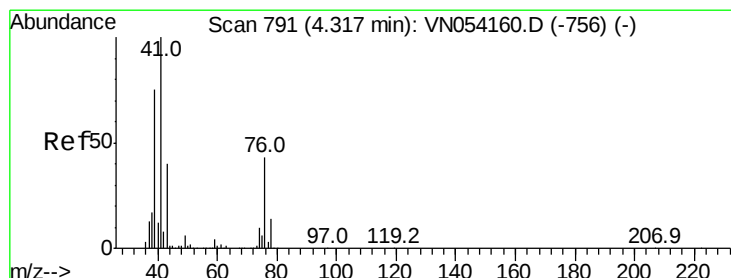
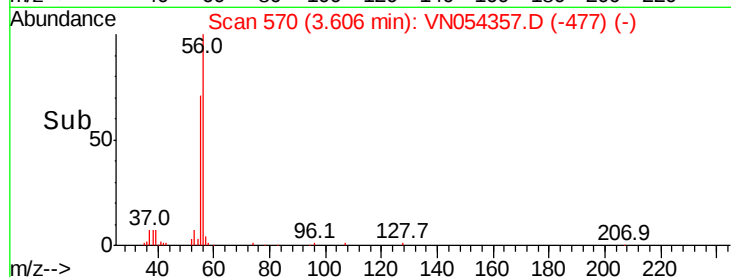
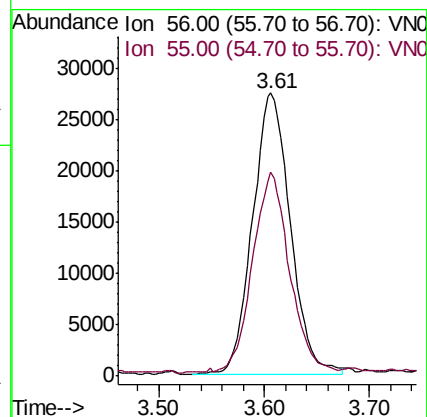
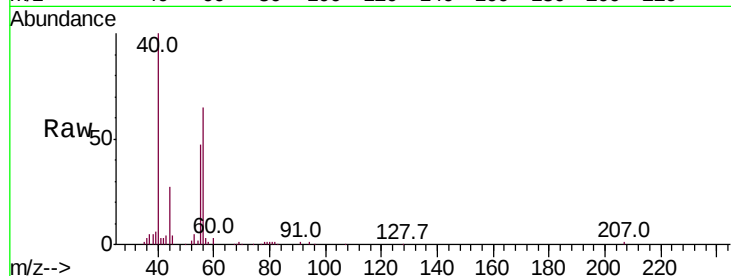
55 68.8 56.7 85.1

Manual Integrations

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#14

Allyl chloride

Concen: 20.150 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

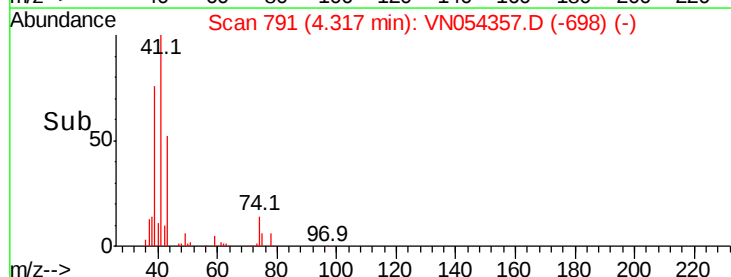
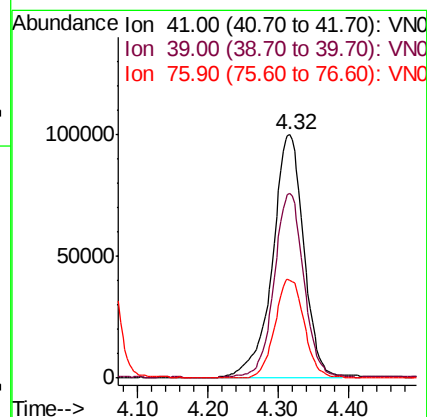
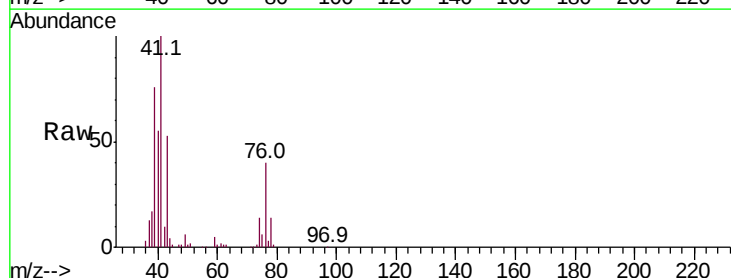
Tgt Ion: 41 Resp: 308541

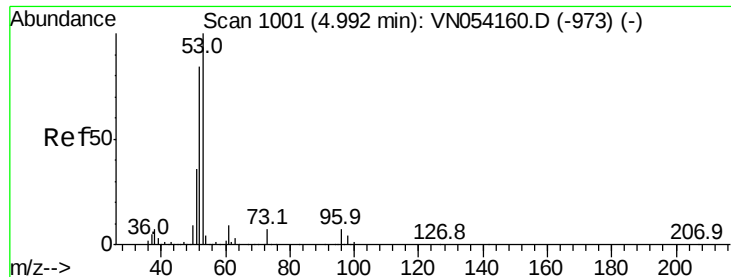
Ion Ratio Lower Upper

41 100

39 72.8 58.2 87.4

76 38.3 31.7 47.5





#15

Acrylonitrile

Concen: 123.271 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

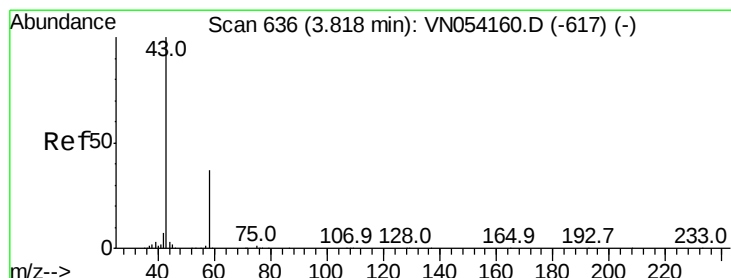
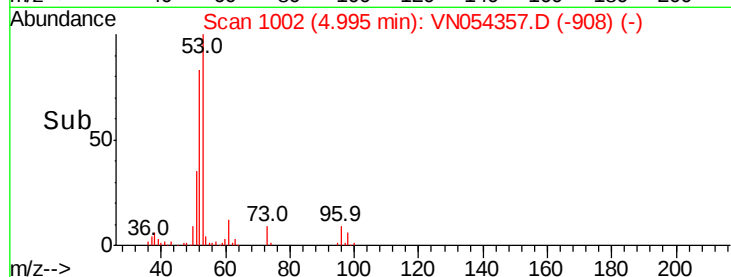
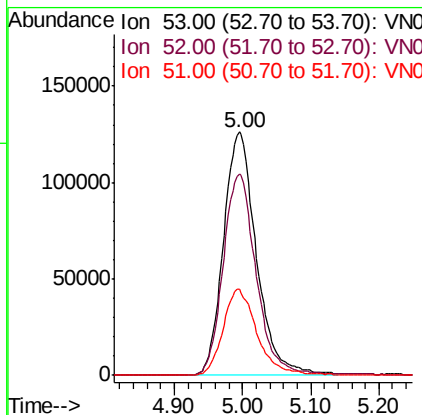
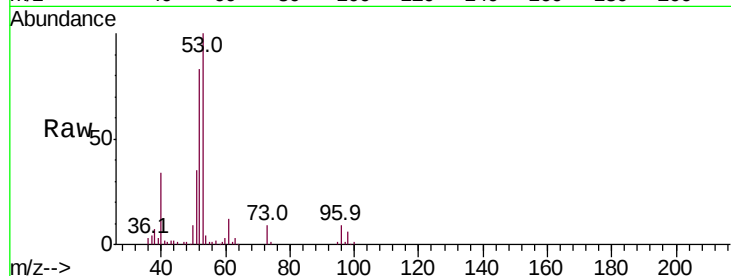
ClientSampleId :

VN0316WBS02

Tot Ion:	53	Resp:	423492
Ion Ratio	Lower	Upper	
53	100		
52	82.6	66.4	99.6
51	36.4	29.6	44.4

Manual Integrations
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#16

Acetone

Concen: 90.324 ug/l

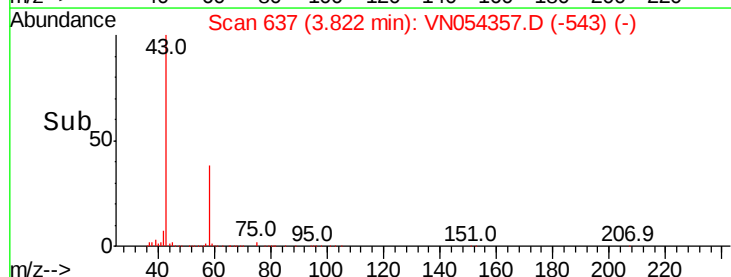
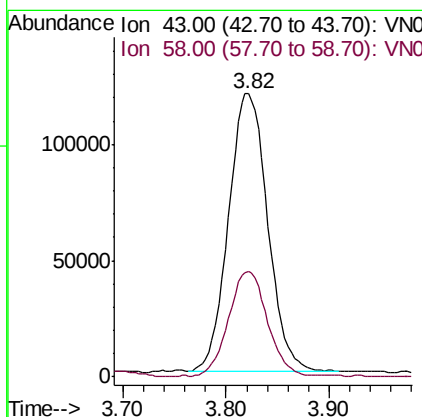
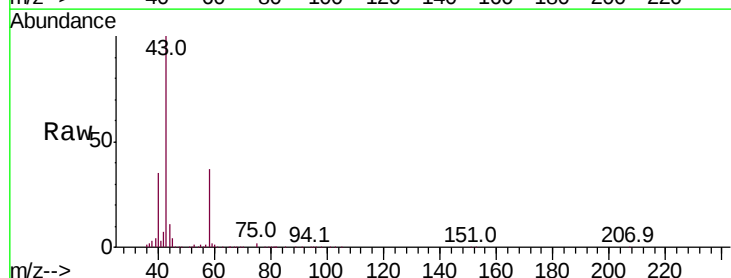
RT: 3.82 min Scan# 637

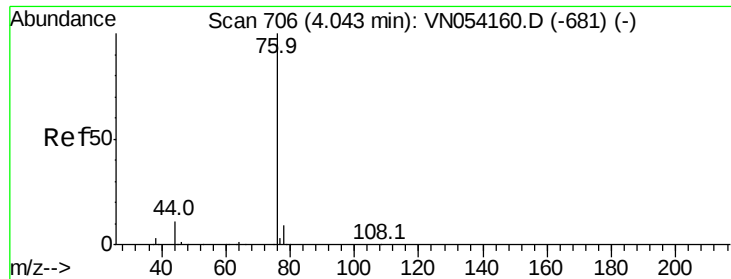
Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Tgt Ion:	43	Resp:	315507
Ion Ratio	Lower	Upper	
43	100		
58	37.6	29.9	44.9





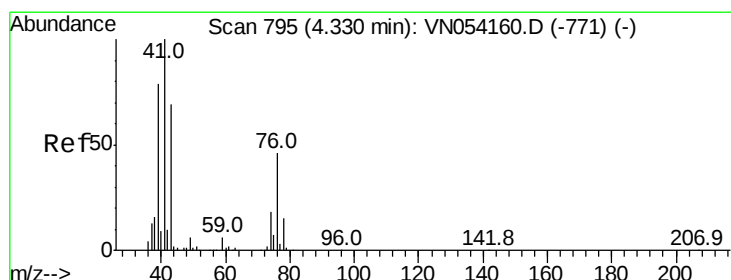
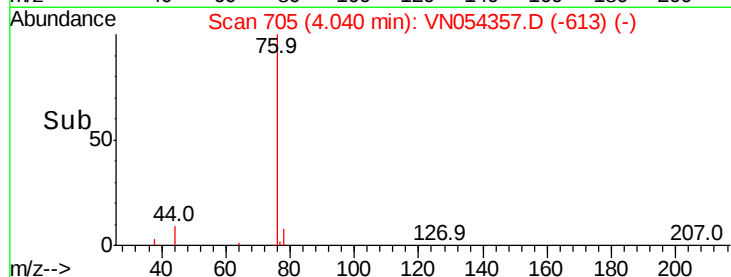
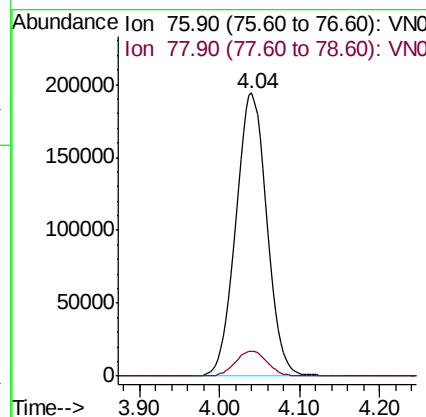
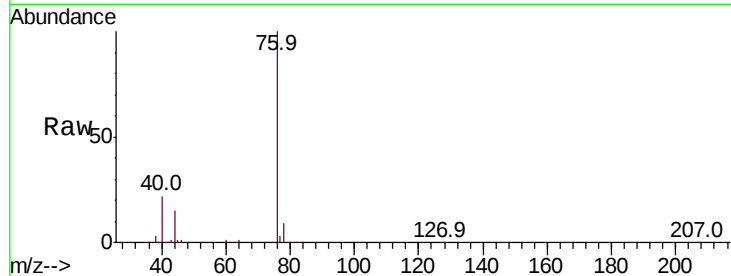
#17
Carbon Disulfide
Concen: 17.024 ug/l
RT: 4.04 min Scan# 705
Delta R.T. -0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

Tot Ion: 76 Resp: 509326
Ion Ratio Lower Upper
76 100
78 8.8 7.5 11.3

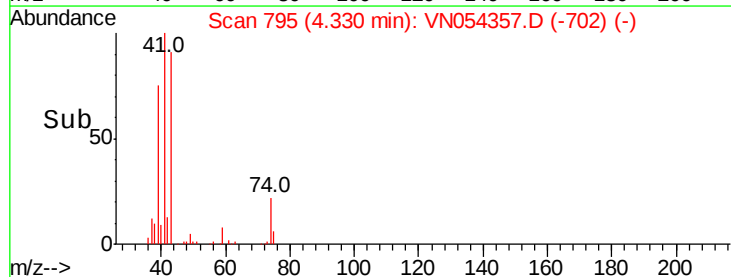
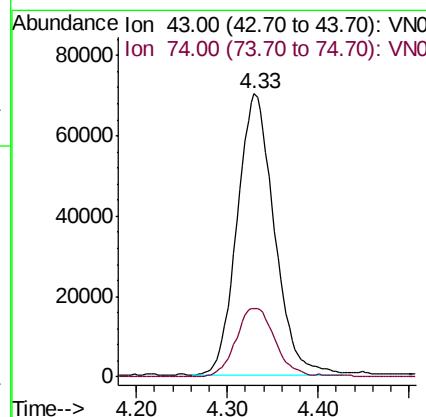
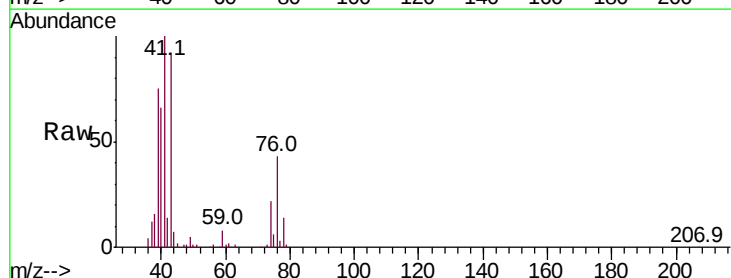
Manual Integrations
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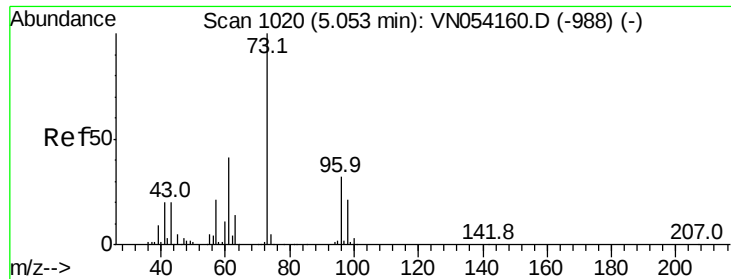
MMDadoda
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#18
Methyl Acetate
Concen: 28.169 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion: 43 Resp: 199075
Ion Ratio Lower Upper
43 100
74 25.6 20.8 31.2





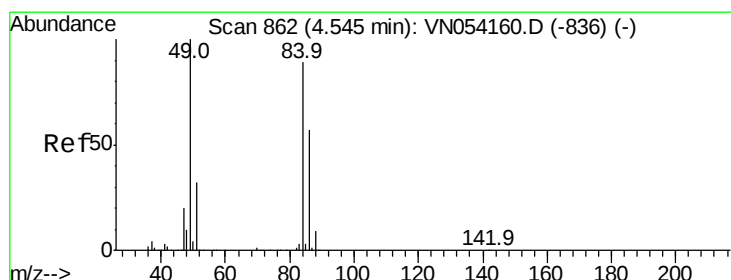
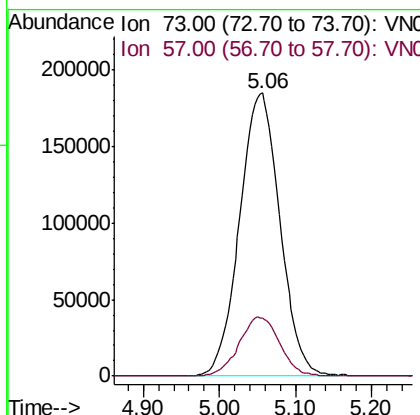
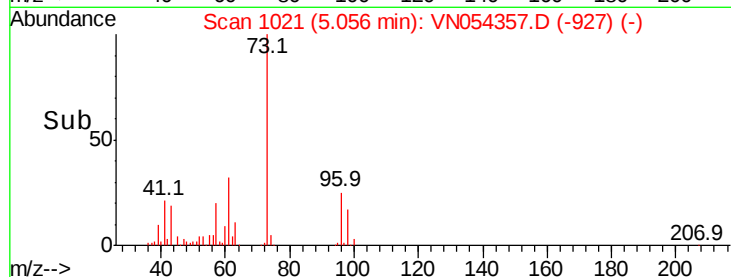
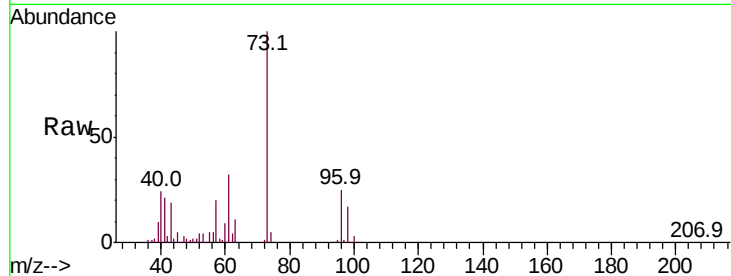
#19
Methvl tert-butvl Ether
Concen: 23.024 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

Tot Ion: 73 Resp: 681090
Ion Ratio Lower Upper
73 100
57 20.4 16.8 25.2

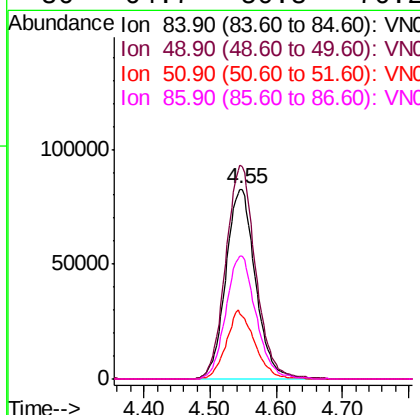
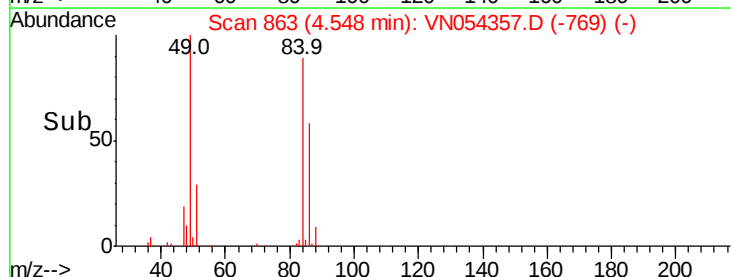
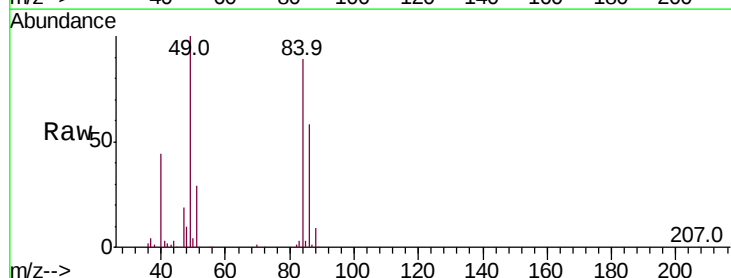
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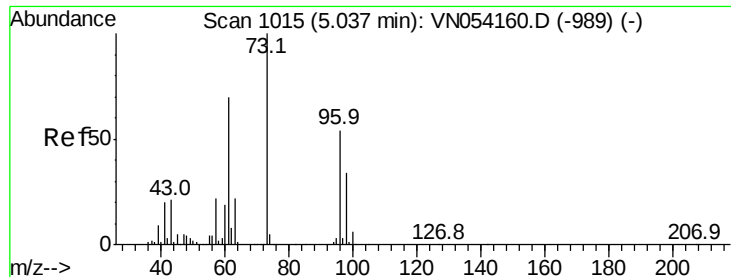
MMDadoda
3/18/2019 12:05:45 PM



#20
Methylene Chloride
Concen: 22.395 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion: 84 Resp: 256866
Ion Ratio Lower Upper
84 100
49 112.3 89.7 134.5
51 32.9 28.2 42.4
86 64.7 50.8 76.2





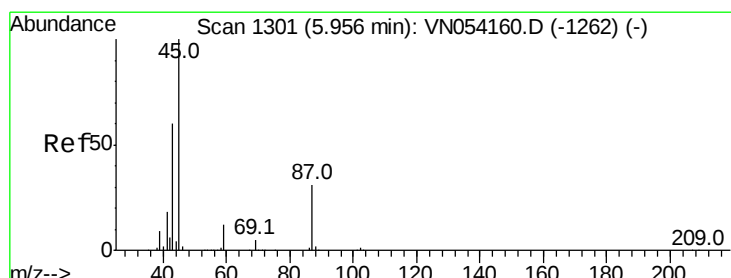
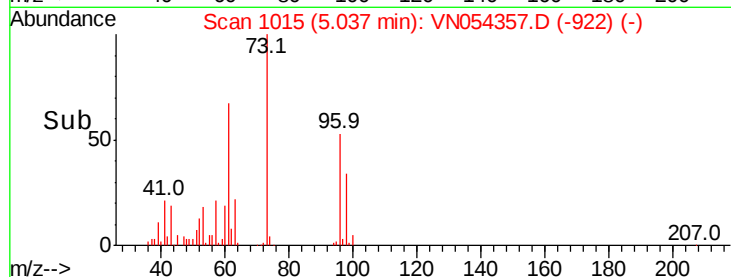
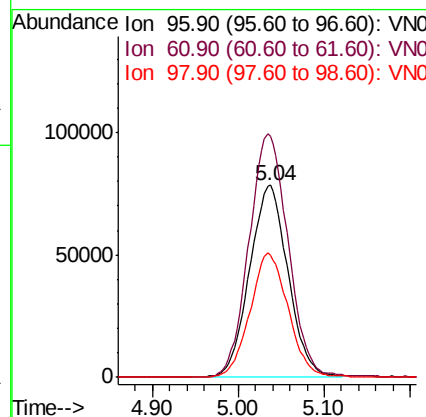
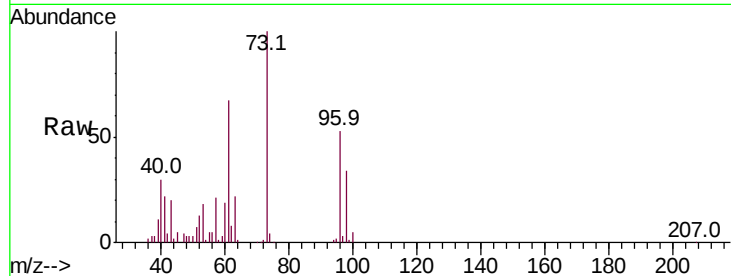
#21
trans-1,2-Dichloroethene
Concen: 21.374 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	125.6	102.8	154.2
98	63.3	50.0	75.0

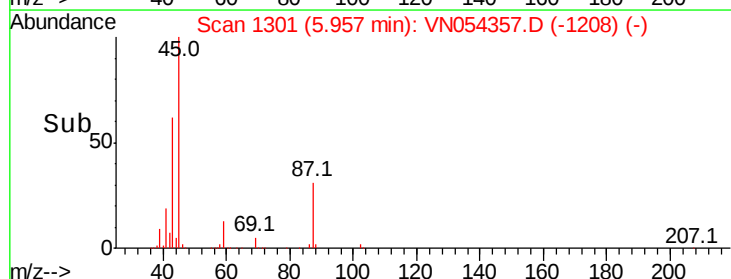
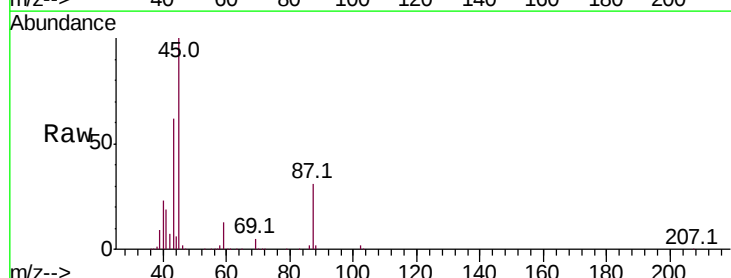
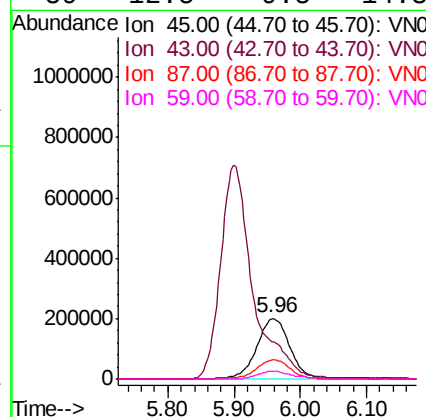
Manual Integrations
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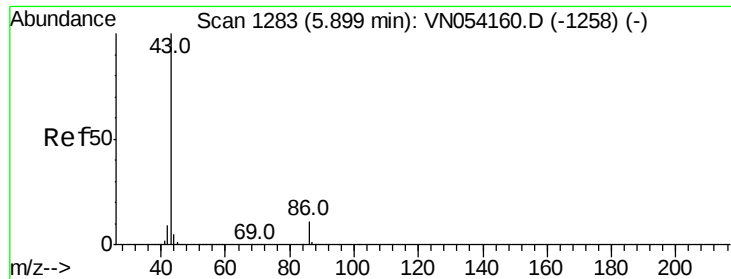
MMDadoda
3/18/2019 12:05:45 PM



#22
Diisopropyl ether
Concen: 22.819 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Lower	Upper
45	100		
43	61.4	48.2	72.2
87	30.7	24.9	37.3
59	12.5	9.5	14.3





#23

Vinyl Acetate

Concen: 107.167 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

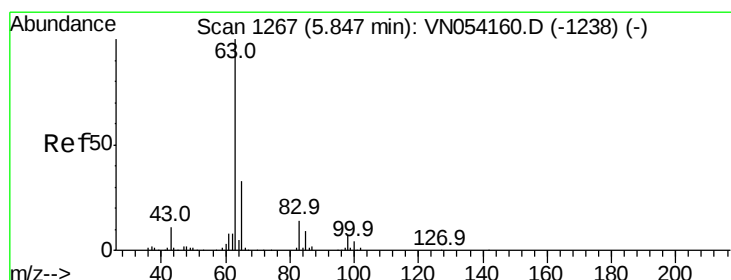
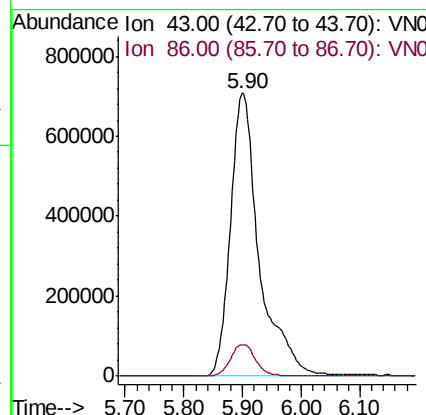
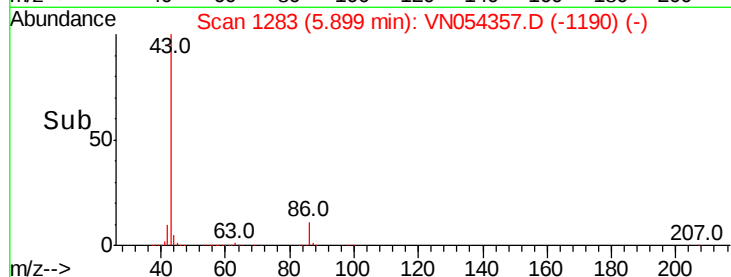
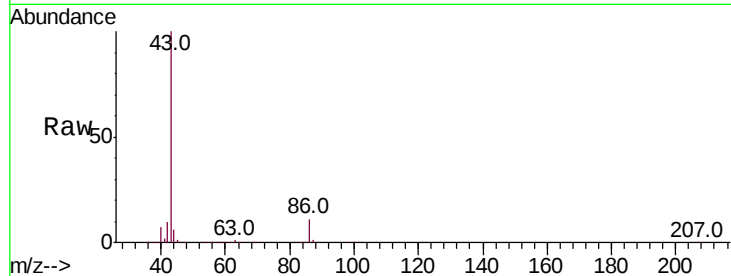
Instrument :
MSVOA_N
ClientSampled :
VN0316WBS02

Tot Ion: 43 Resp: 2414709

Ion	Ratio	Lower	Upper
43	100		
86	11.2	9.1	13.7

Manual Integrations
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MMDadoda
3/18/2019 12:05:45 PM



#24

1,1-Dichloroethane

Concen: 22.352 ug/l

RT: 5.85 min Scan# 1267

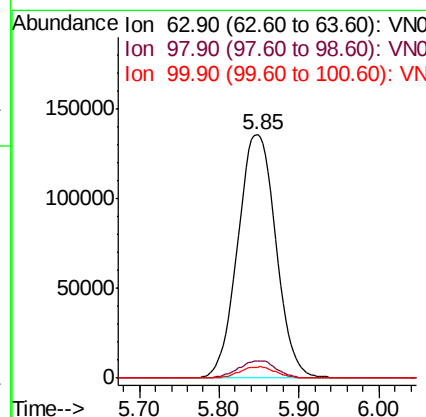
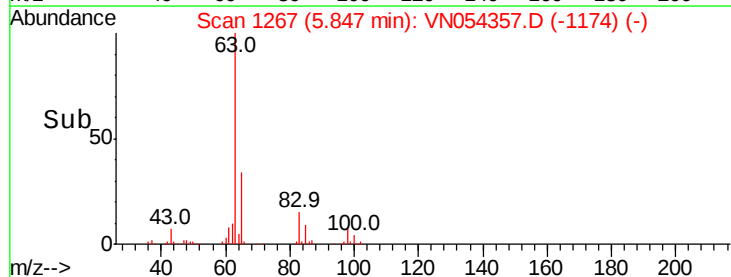
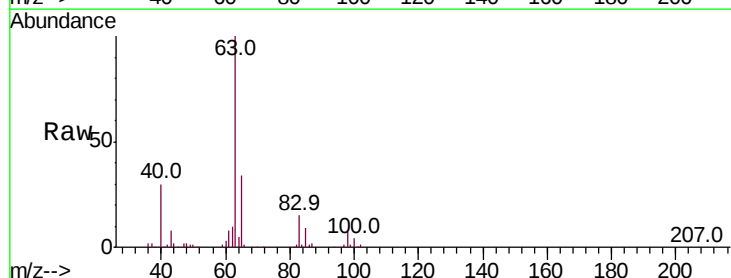
Delta R.T. 0.00 min

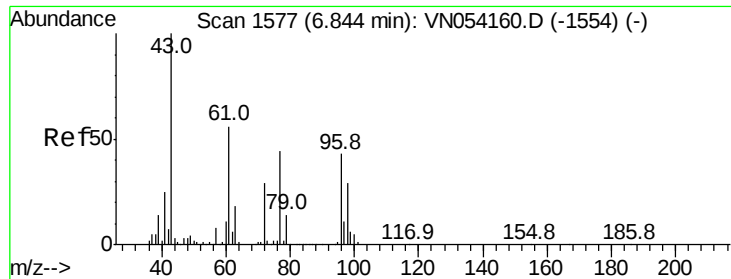
Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Tgt Ion: 63 Resp: 438588

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.5
100	4.4	2.0	6.0





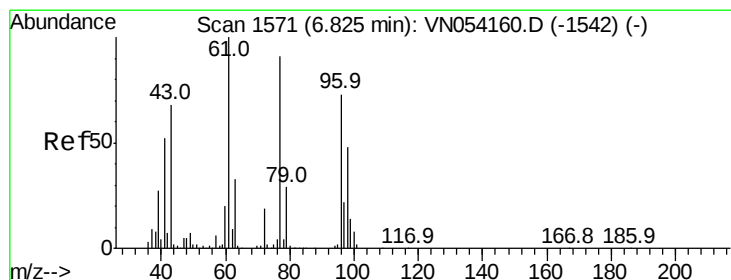
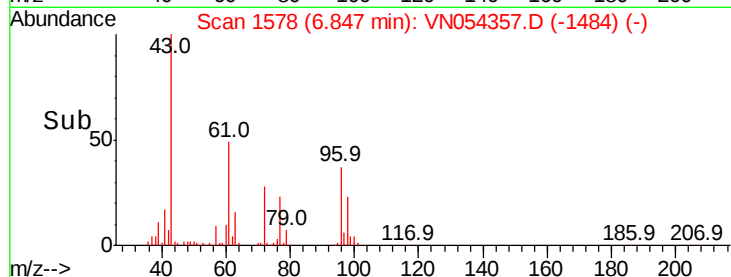
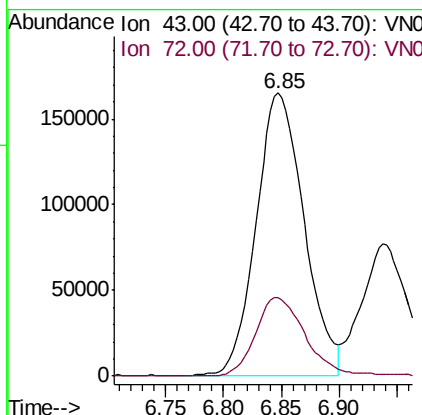
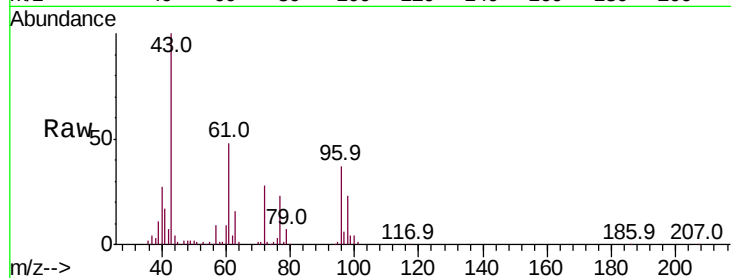
#25
2-Butanone
Concen: 115.305 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

Tot Ion: 43 Resp: 472726
Ion Ratio Lower Upper
43 100
72 27.8 23.0 34.6

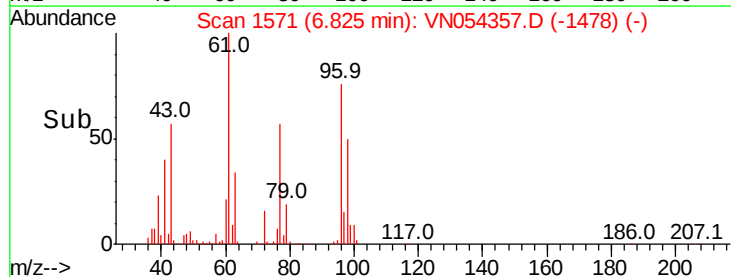
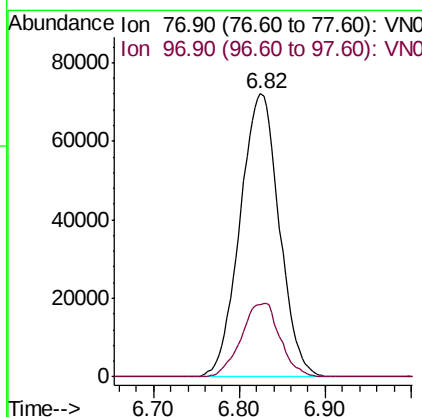
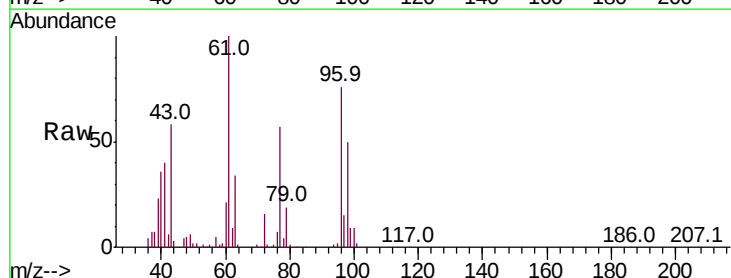
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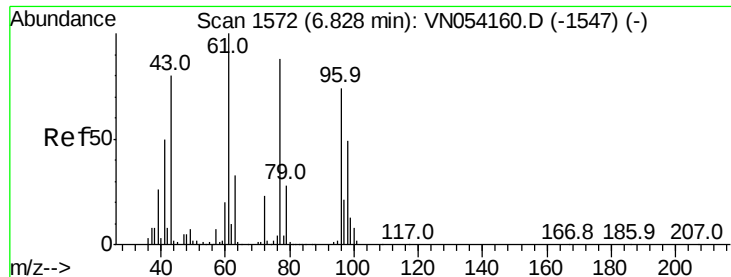
MMDadoda
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#26
2,2-Dichloropropane
Concen: 13.245 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion: 77 Resp: 228555
Ion Ratio Lower Upper
77 100
97 25.8 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 22.665 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

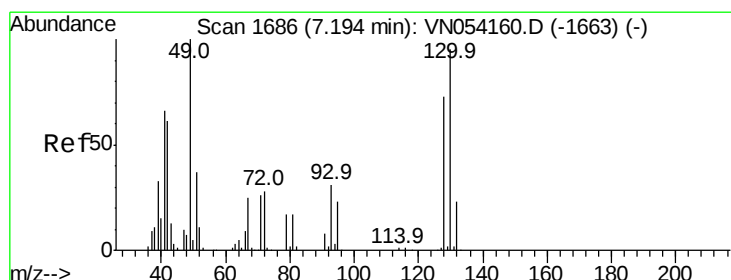
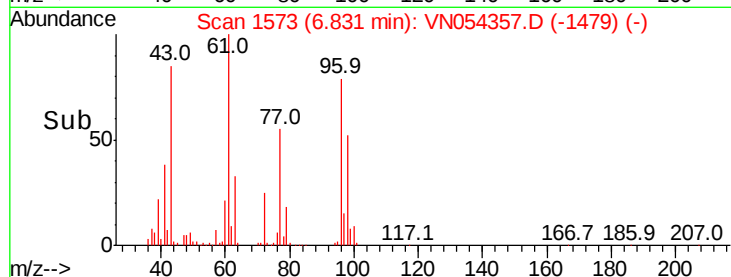
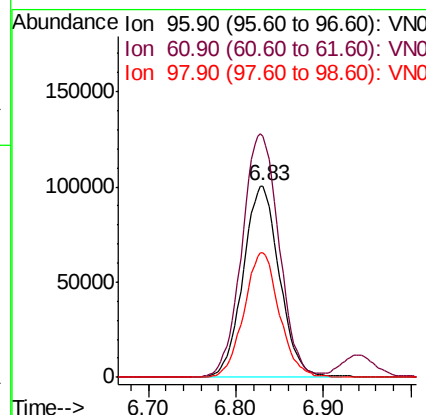
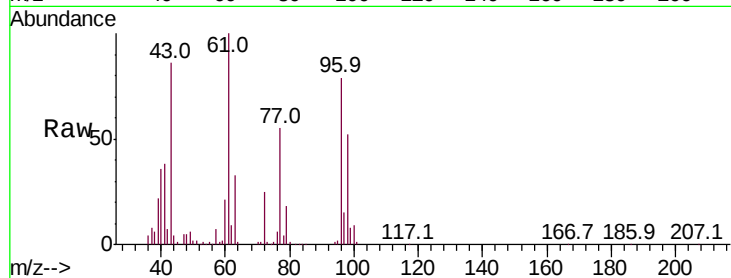
ClientSampleId :

VN0316WBS02

Tot Ion:	96	Resp:	289129
Ion Ratio	Lower	Upper	
96	100		
61	130.2	0.0	273.0
98	63.3	0.0	130.6

Manual Integrations
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#28

Bromochloromethane

Concen: 22.792 ug/l

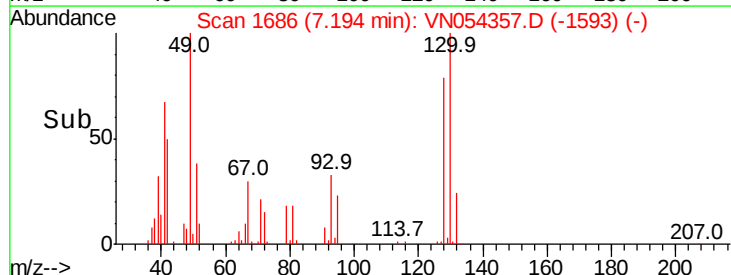
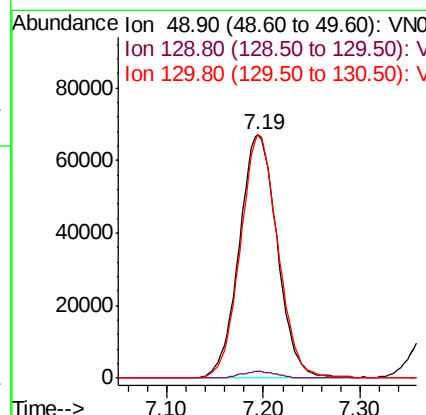
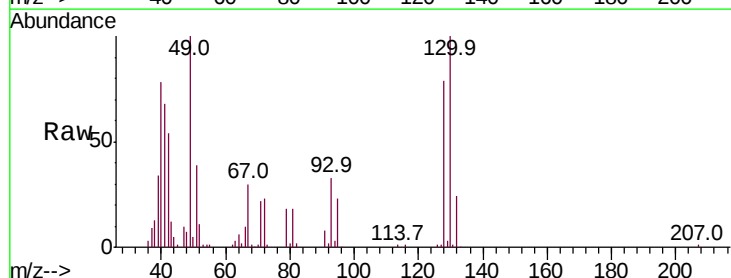
RT: 7.19 min Scan# 1686

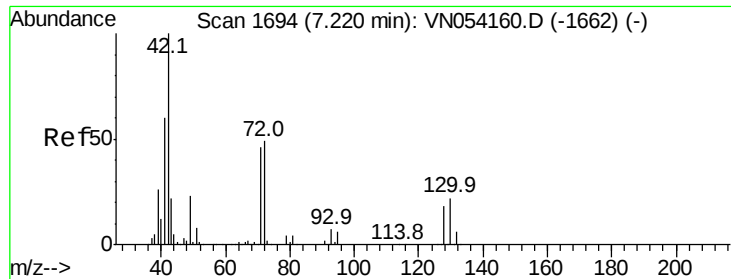
Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Tgt Ion:	49	Resp:	182833
Ion Ratio	Lower	Upper	
49	100		
129	2.6	0.0	4.6
130	98.3	76.7	115.1





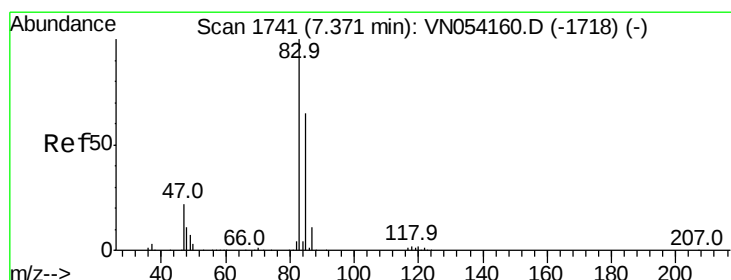
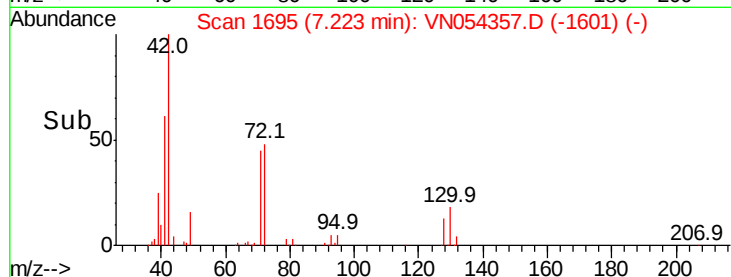
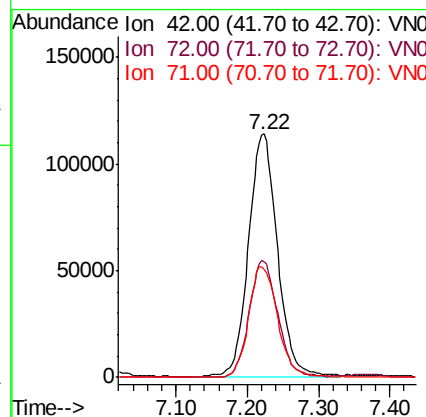
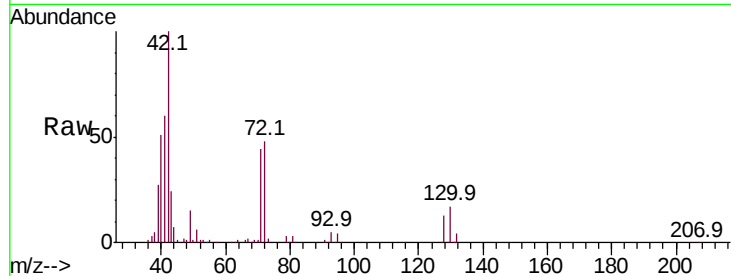
#29
Tetrahydrofuran
Concen: 121.730 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.7	37.8	56.6
71	45.8	36.2	54.2

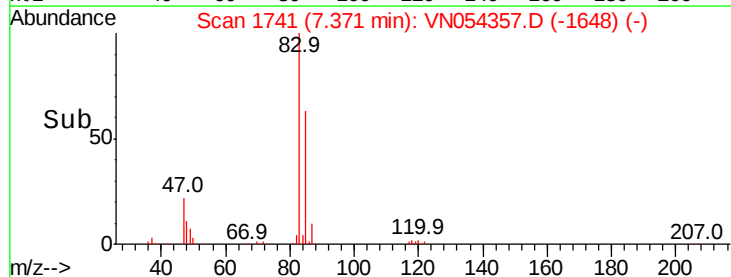
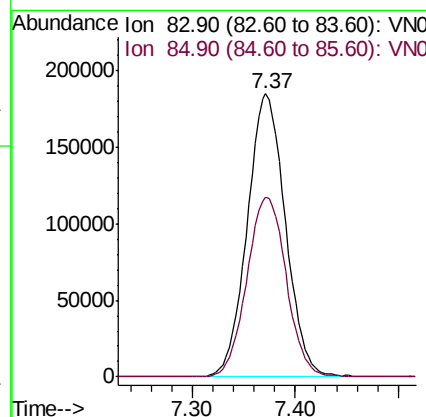
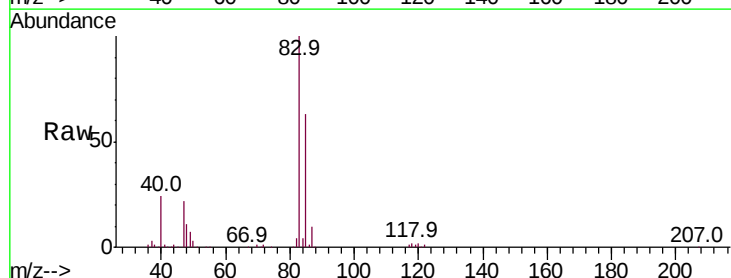
Manual Integrations
APPROVED

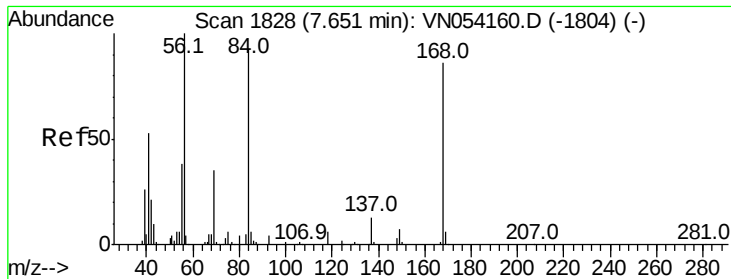
MMDadoda
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#30
Chloroform
Concen: 23.140 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	52.2	78.4





#31

Cyclohexane

Concen: 19.965 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

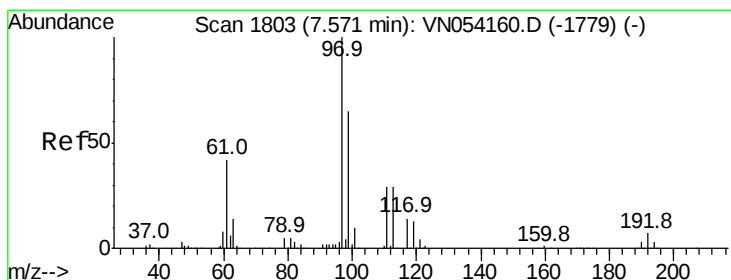
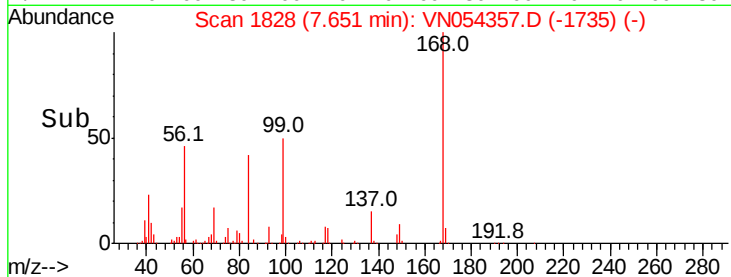
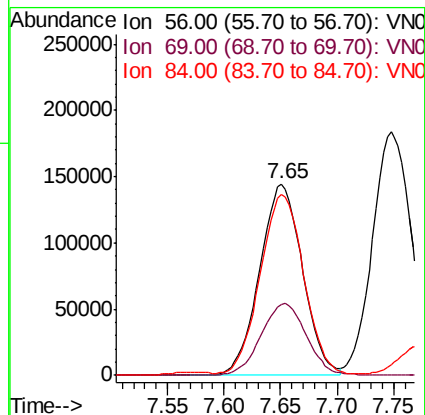
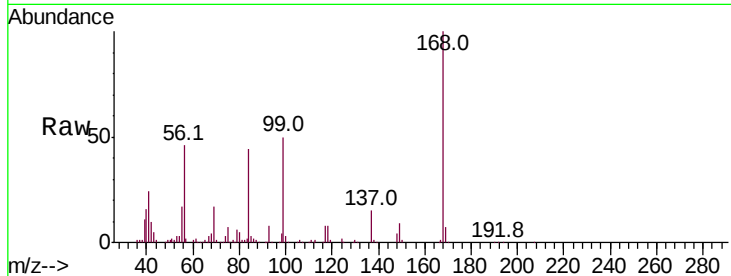
ClientSampled :

VN0316WBS02

Tot Ion:	56	Resp:	379791
Ion Ratio	Lower	Upper	
56	100		
69	37.1	27.8	41.6
84	93.1	74.6	111.8

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 21.481 ug/l

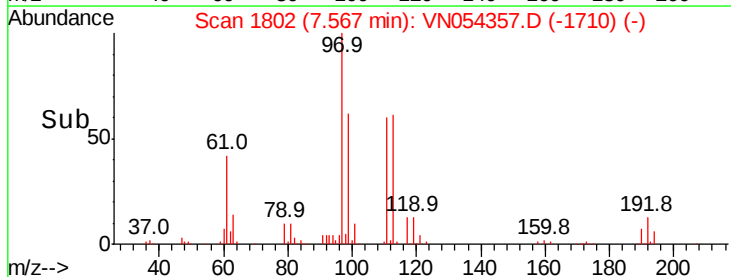
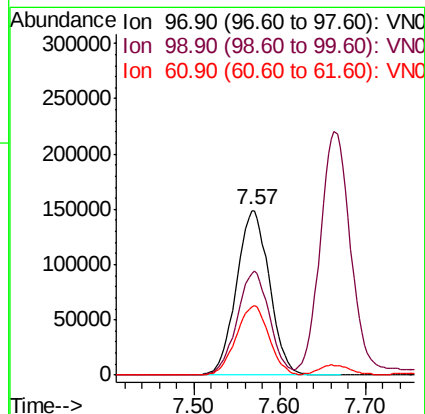
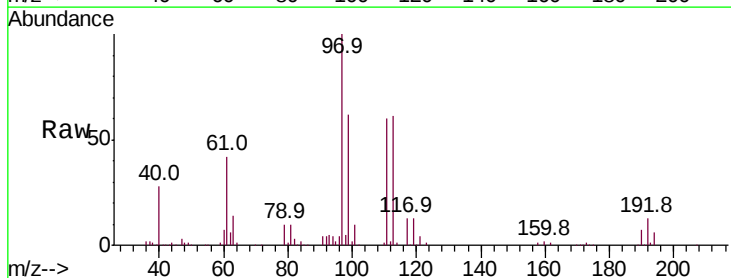
RT: 7.57 min Scan# 1802

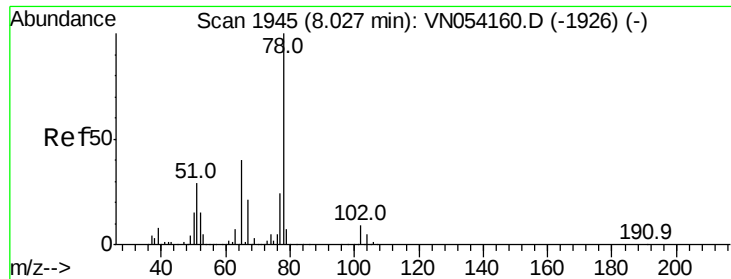
Delta R.T. -0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Tgt Ion:	97	Resp:	397233
Ion Ratio	Lower	Upper	
97	100		
99	61.8	51.5	77.3
61	42.0	33.6	50.4





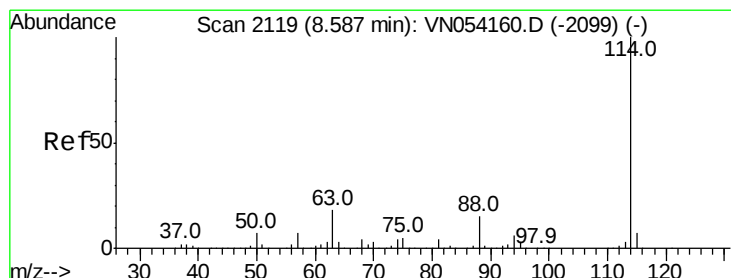
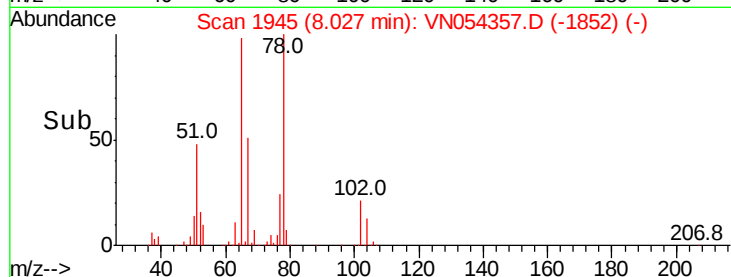
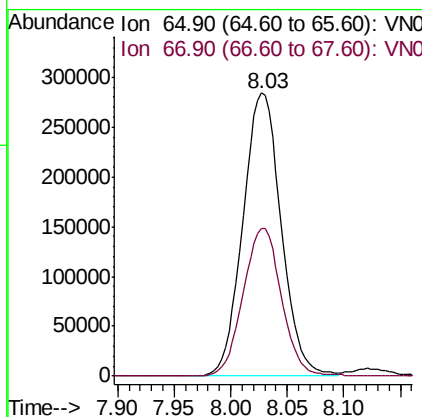
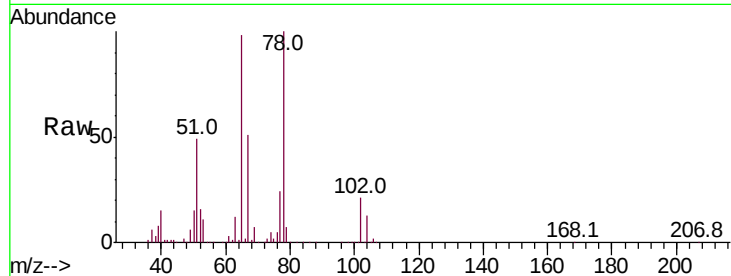
#33
 1,2-Dichloroethane-d4
 Concen: 54.903 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054357.D
 Acq: 17 Mar 2019 1:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBS02

Tot Ion: 65 Resp: 669798
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.6

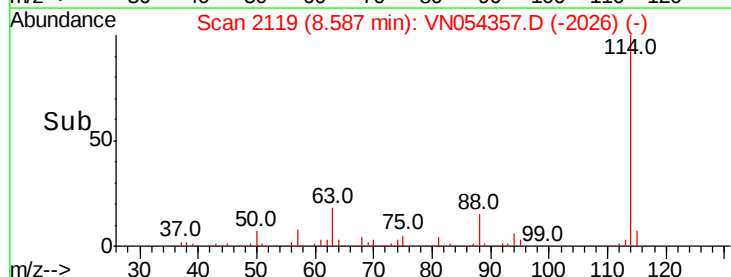
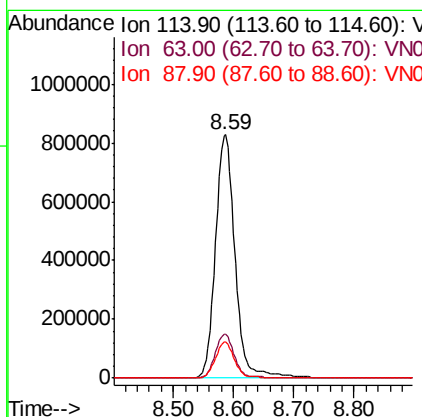
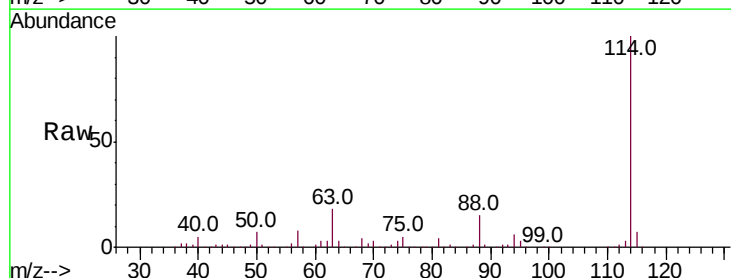
Manual Integrations
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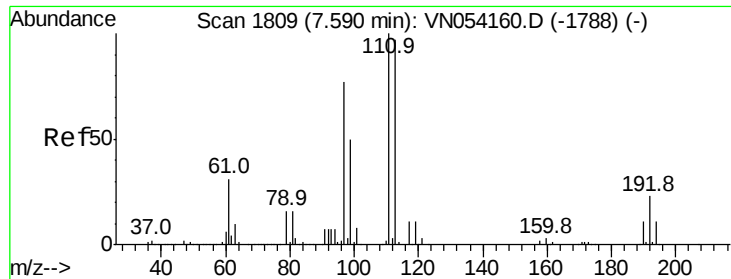
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054357.D
 Acq: 17 Mar 2019 1:26

Tgt Ion: 114 Resp: 1837913
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 35.2
 88 14.9 0.0 30.2





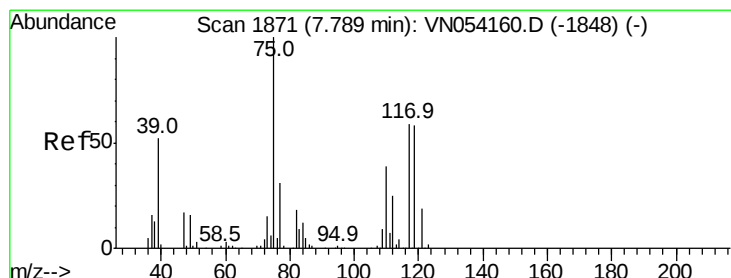
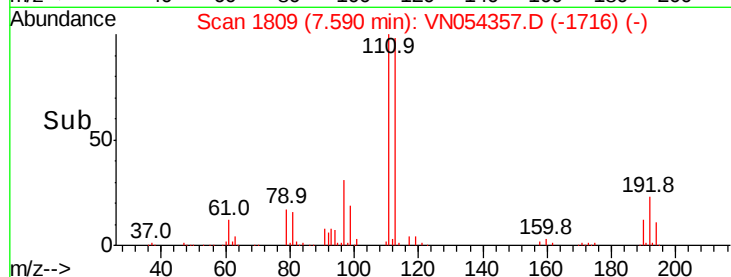
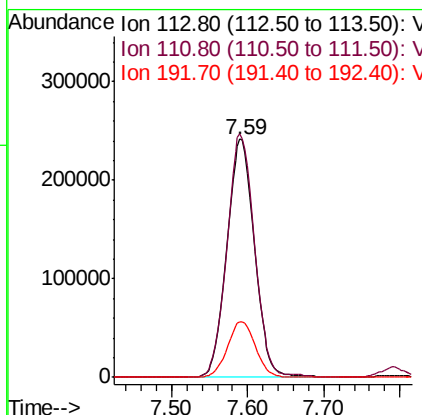
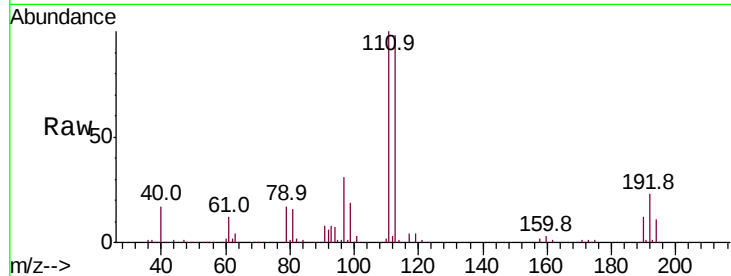
#35
 Dibromofluoromethane
 Concen: 51.466 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054357.D
 Acq: 17 Mar 2019 1:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBS02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	610063		
111	102.1	82.2	123.4	
192	23.8	19.2	28.8	

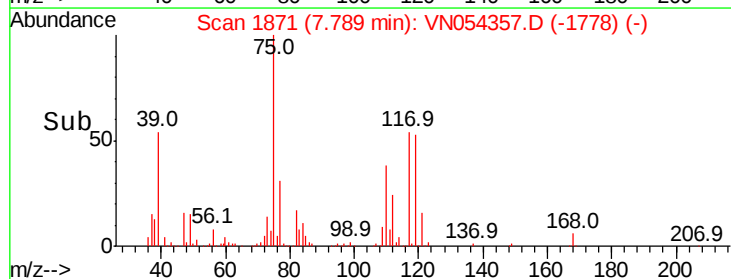
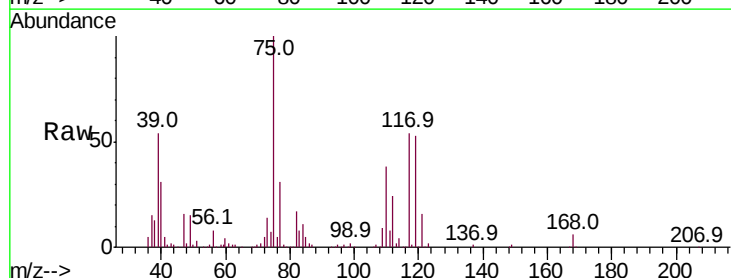
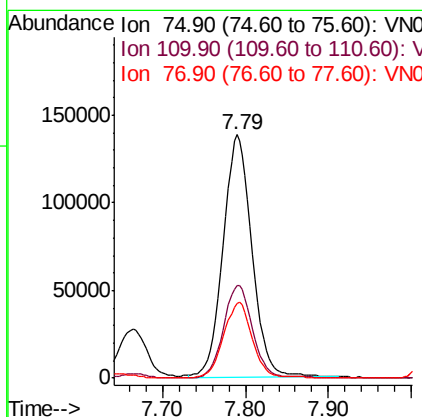
Manual Integrations
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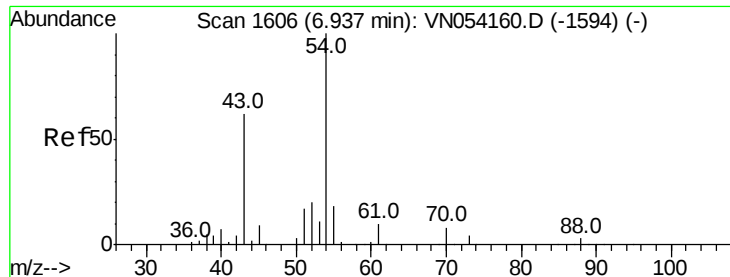
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#36
 1,1-Dichloropropene
 Concen: 19.746 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN054357.D
 Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	334219		
110	38.5	19.1	57.5	
77	31.3	25.0	37.4	





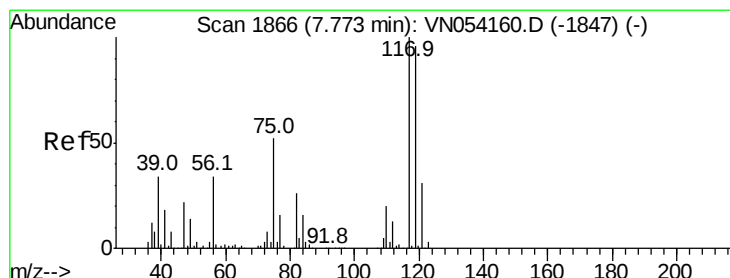
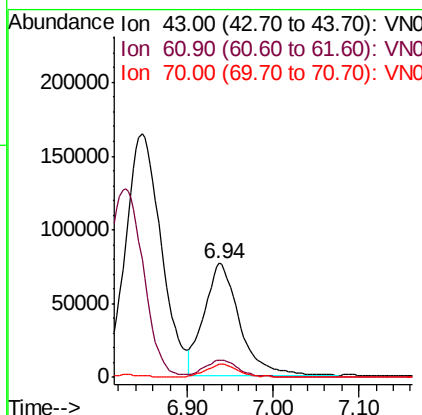
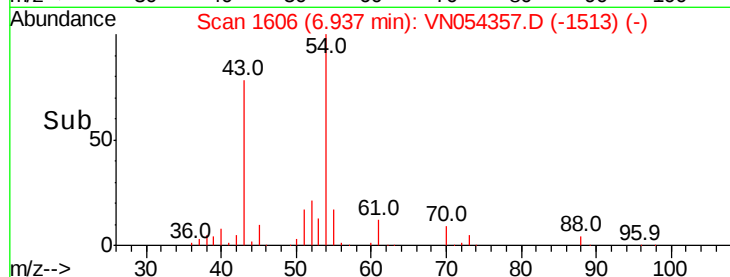
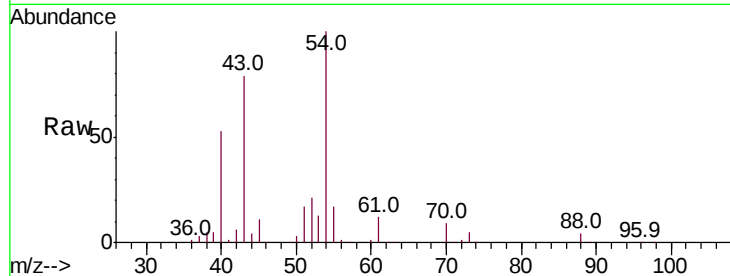
#37
Ethyl Acetate
Concen: 22.529 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.8	17.6
70	9.7	8.4	12.6

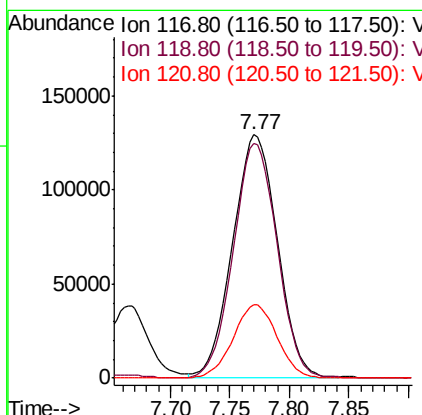
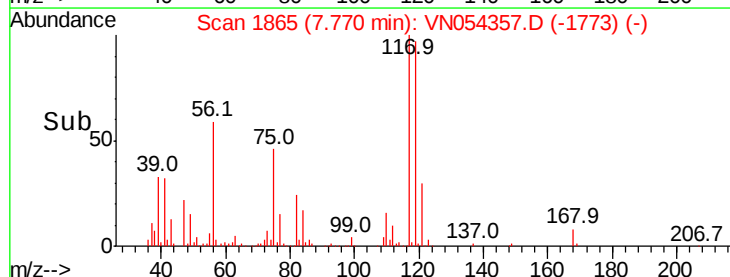
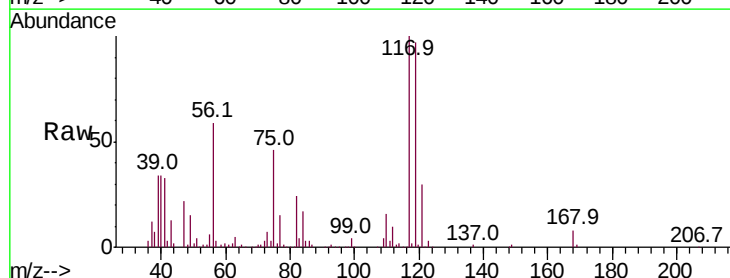
Manual Integrations
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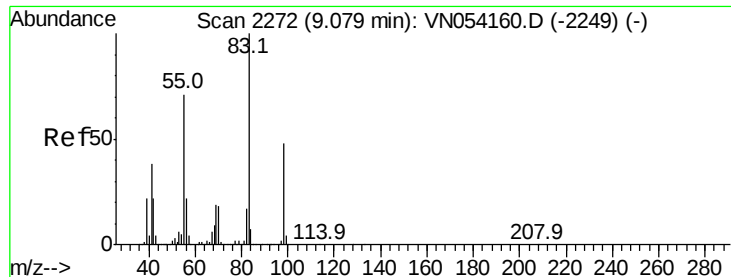
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#38
Carbon Tetrachloride
Concen: 18.813 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.3	114.5
121	30.4	24.6	36.8





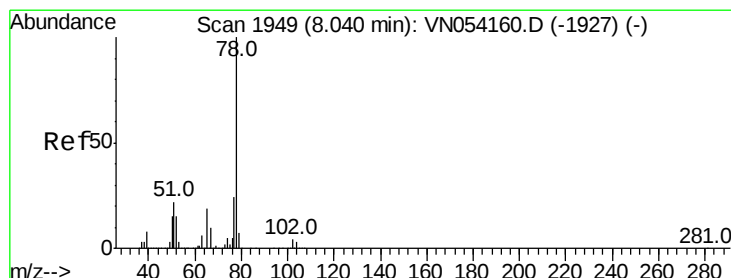
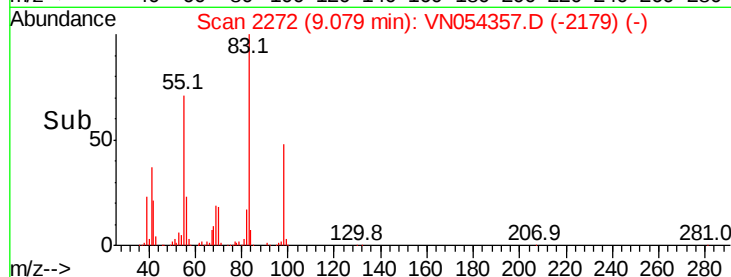
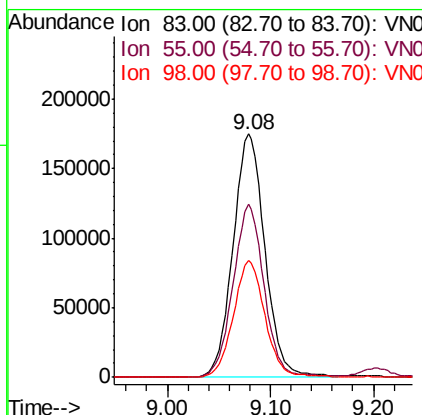
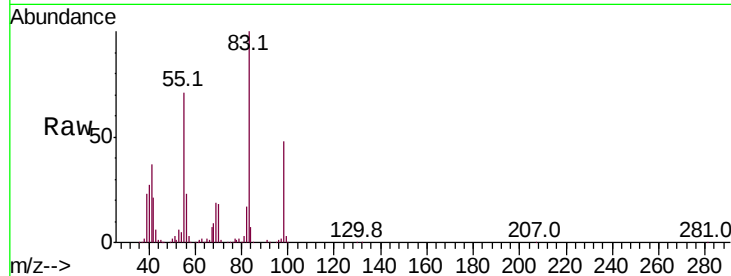
#39
Methvlcvclohexane
Concen: 18.106 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

Tot Ion	Ratio	Lower	Upper
83	100		
55	71.0	56.6	84.8
98	47.8	38.4	57.6

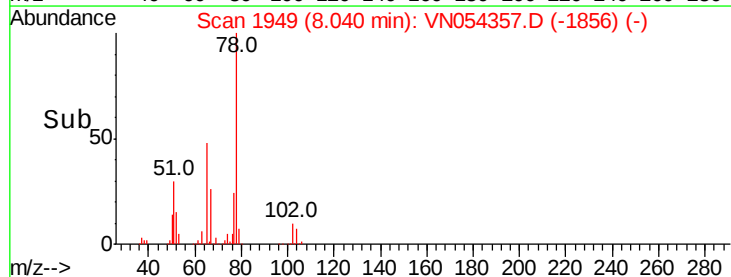
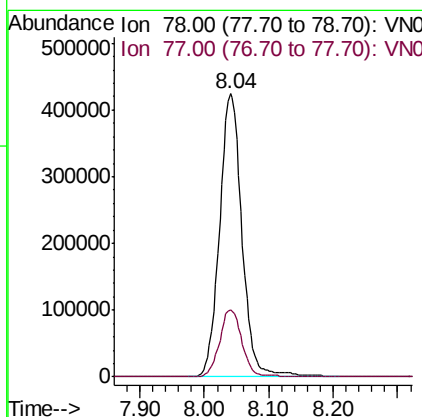
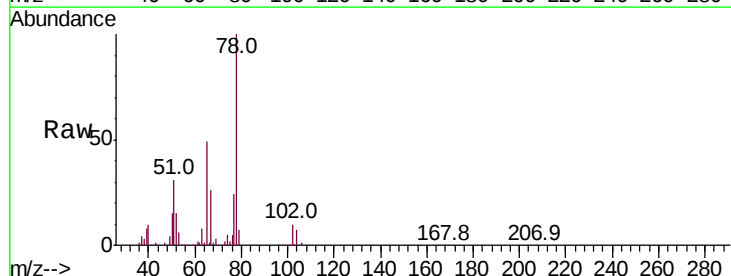
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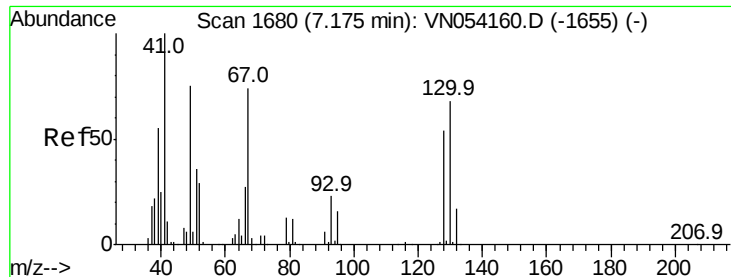
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#40
Benzene
Concen: 21.182 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.1	28.7





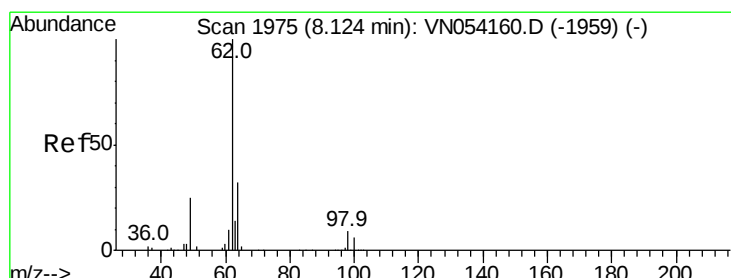
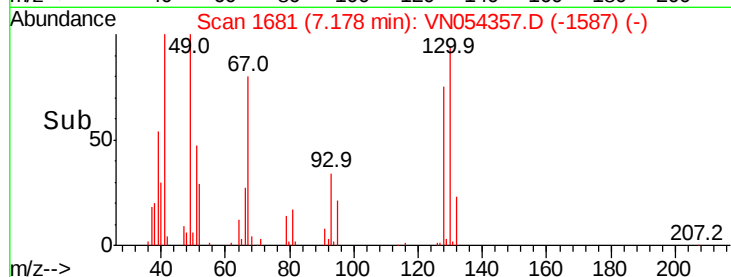
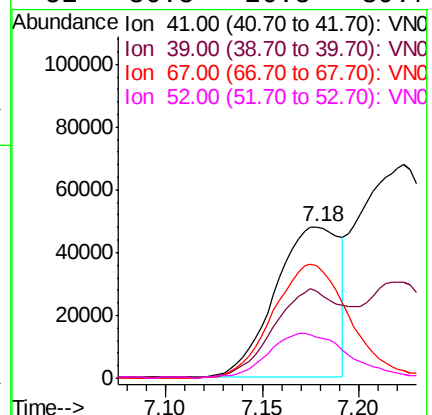
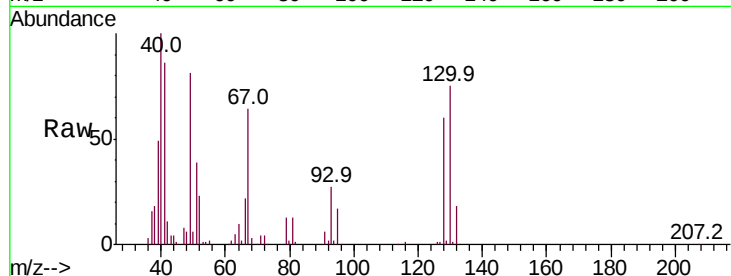
#41
Methacrylonitrile
Concen: 20.110 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	63.9	46.8	70.2	
67	90.7	67.0	100.4	
52	36.5	26.5	39.7	

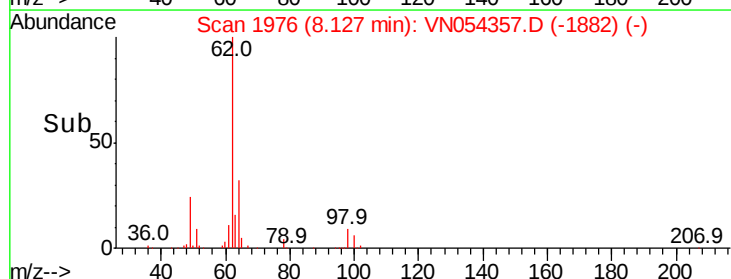
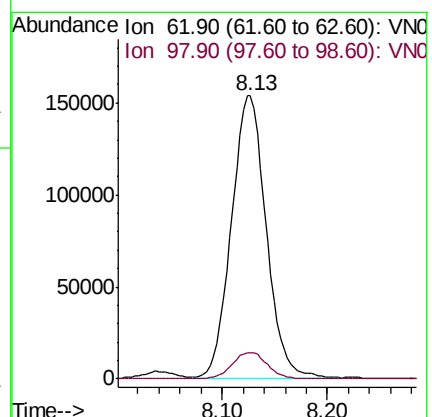
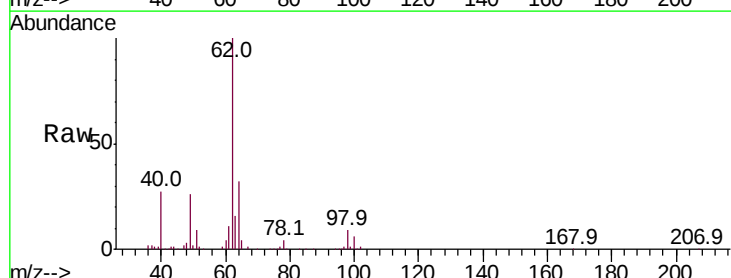
Manual Integrations
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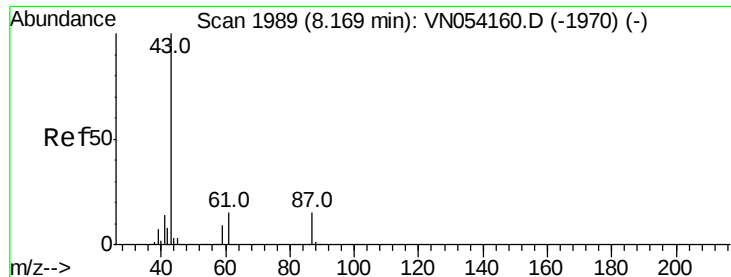
MMDadoda
3/18/2019 12:05:45 PM



#42
1,2-Dichloroethane
Concen: 21.414 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.5	0.0	18.4	





#43

Isopropyl Acetate

Concen: 20.228 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

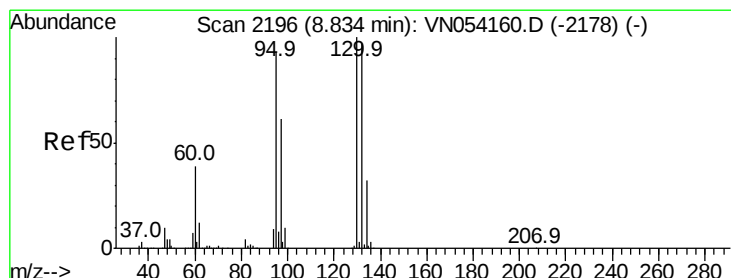
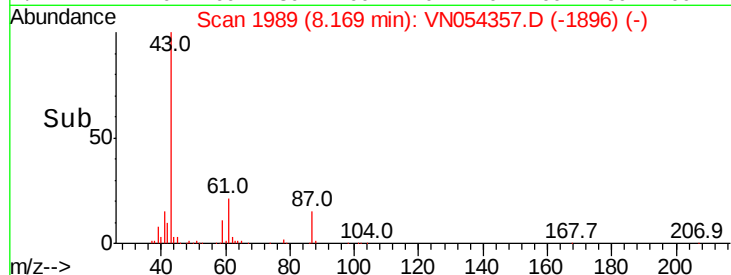
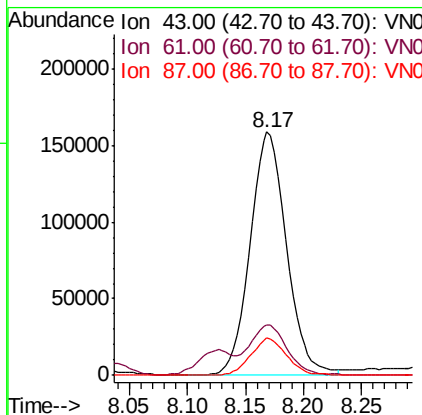
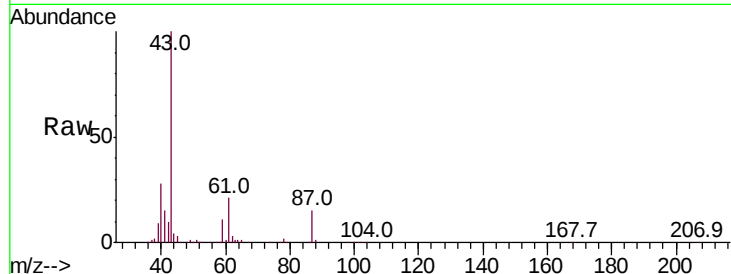
ClientSampleId :

VN0316WBS02

Tot Ion:	43	Resp:	345294
Ion Ratio	Lower	Upper	
43	100		
61	20.5	15.8	23.8
87	15.4	12.0	18.0

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#44

Trichloroethene

Concen: 20.614 ug/l

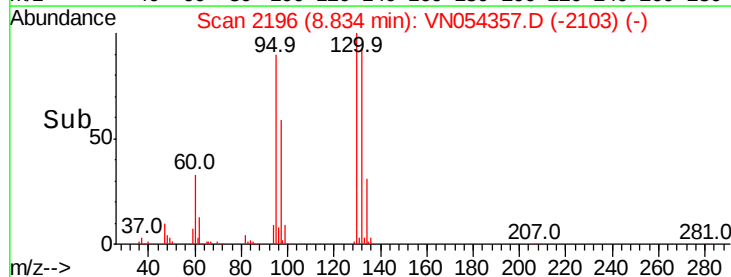
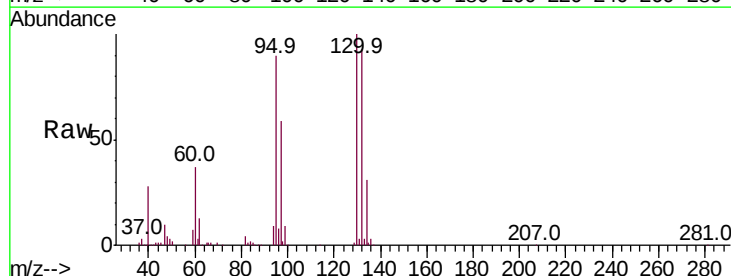
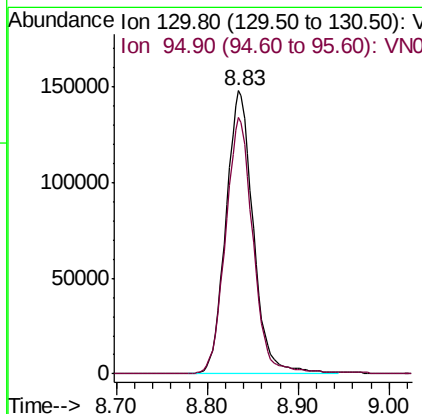
RT: 8.83 min Scan# 2196

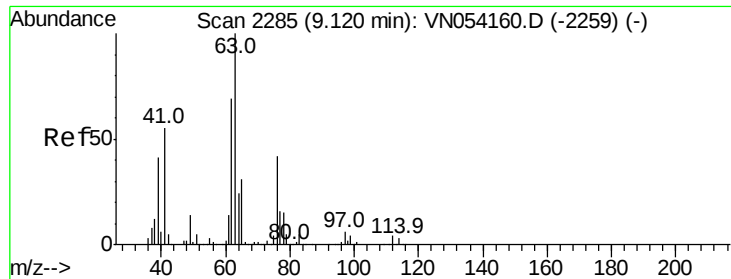
Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Tgt Ion:	130	Resp:	310152
Ion Ratio	Lower	Upper	
130	100		
95	90.3	0.0	185.2





#45

1,2-Dichloropropane

Concen: 21.812 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

ClientSampled :

VN0316WBS02

Tot Ion: 63 Resp: 262324

Ion Ratio Lower Upper

63 100

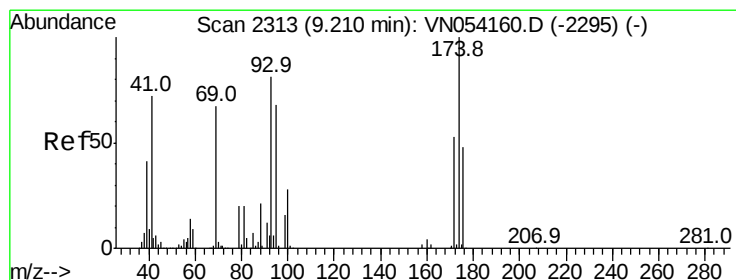
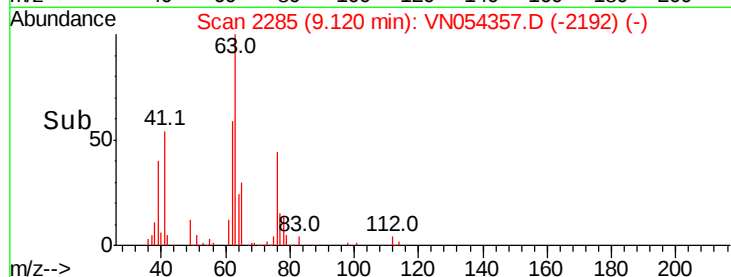
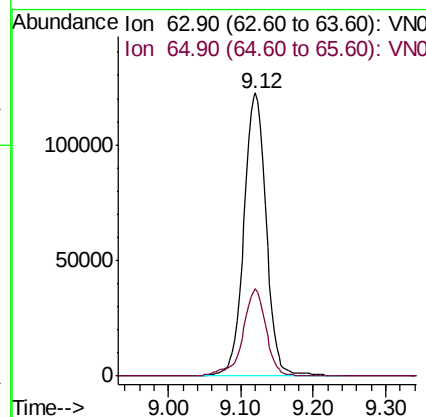
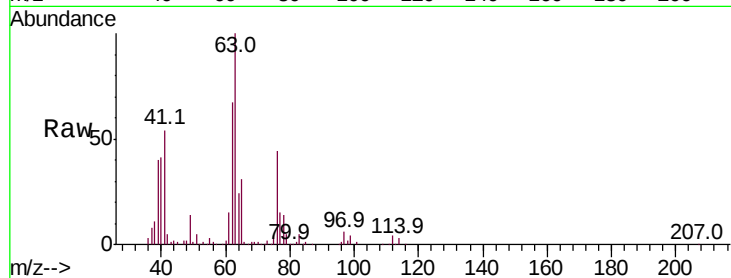
65 30.9 25.0 37.6

Manual Integrations

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#46

Dibromomethane

Concen: 21.606 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

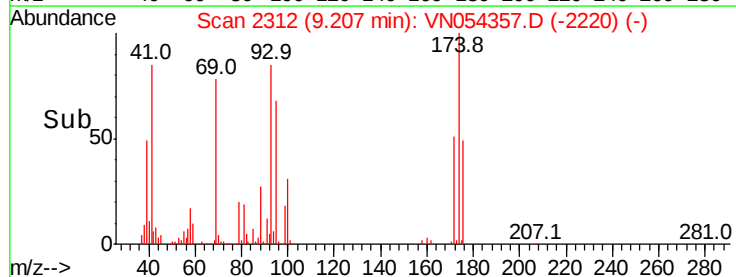
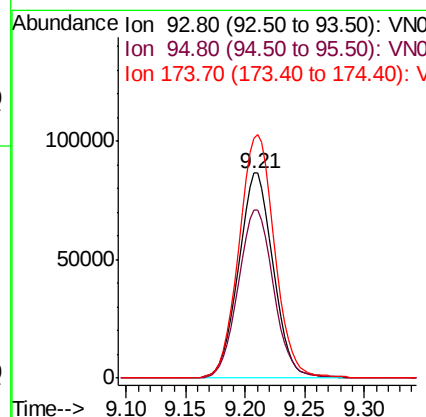
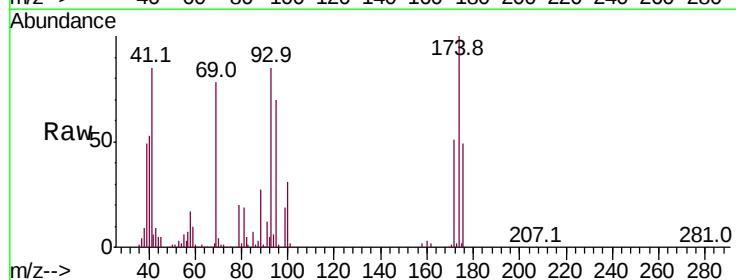
Tgt Ion: 93 Resp: 175567

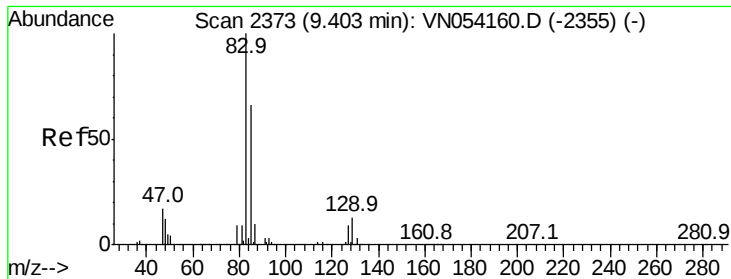
Ion Ratio Lower Upper

93 100

95 82.7 66.7 100.1

174 121.5 98.5 147.7





#47

Bromodichloromethane

Concen: 20.359 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

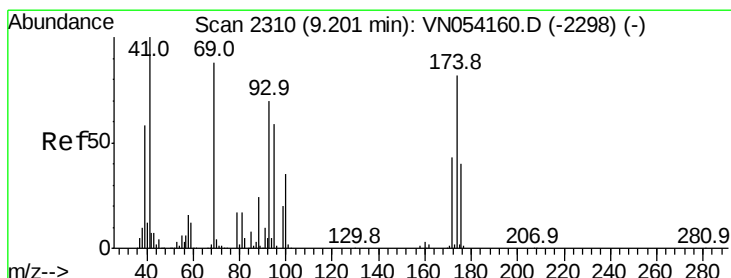
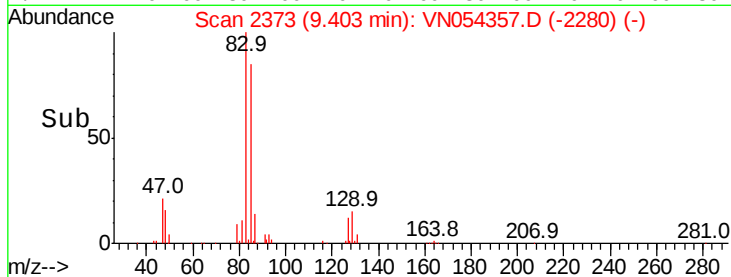
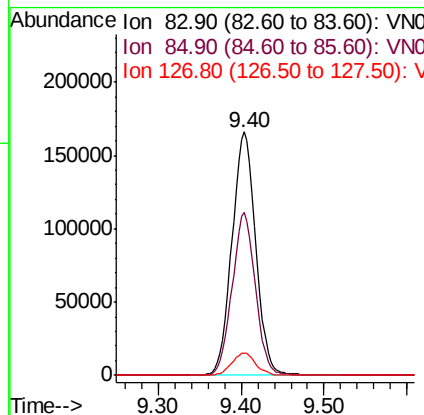
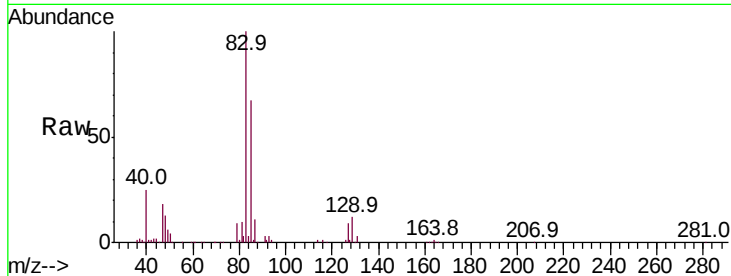
ClientSampleId :

VN0316WBS02

Tot Ion:	83	Resp:	331659
Ion Ratio	Lower	Upper	
83	100		
85	66.8	52.8	79.2
127	9.2	7.4	11.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 21.491 ug/l

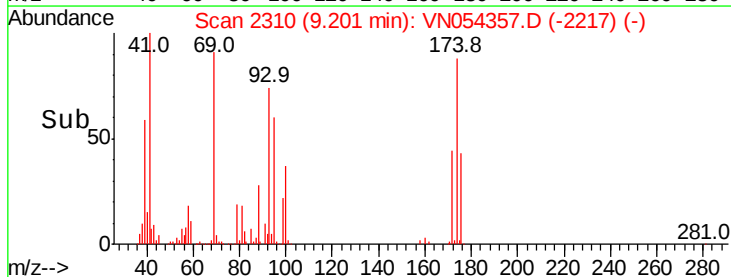
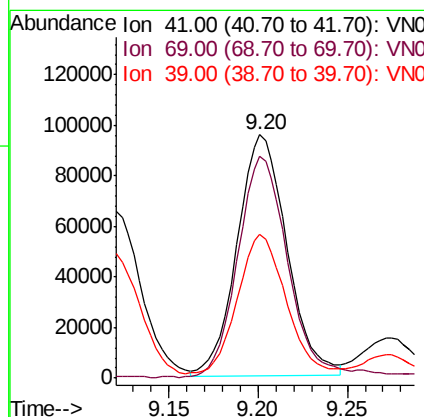
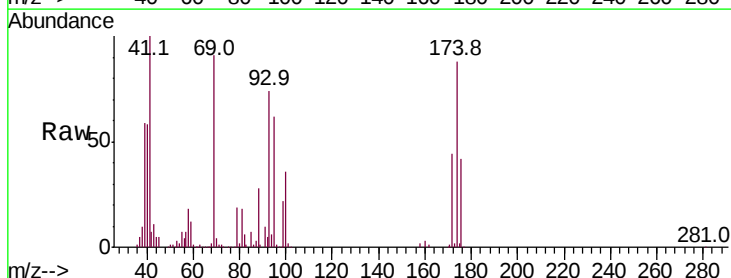
RT: 9.20 min Scan# 2310

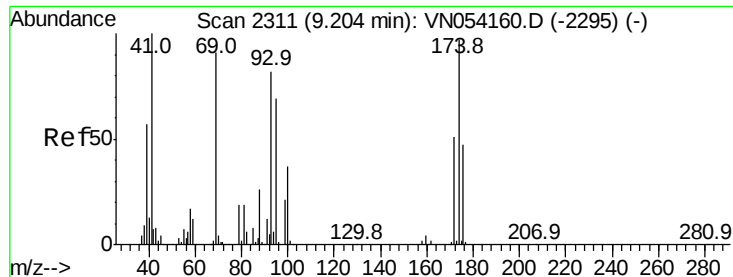
Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Tgt Ion:	41	Resp:	186174
Ion Ratio	Lower	Upper	
41	100		
69	91.1	72.6	108.8
39	59.0	47.5	71.3





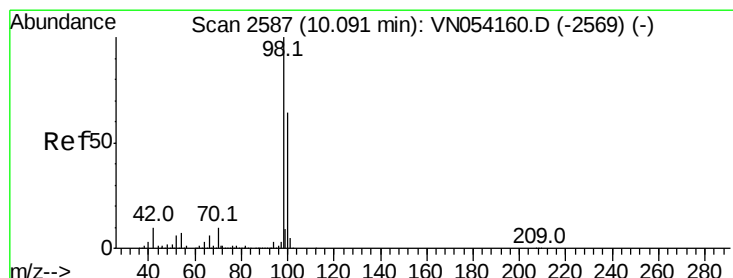
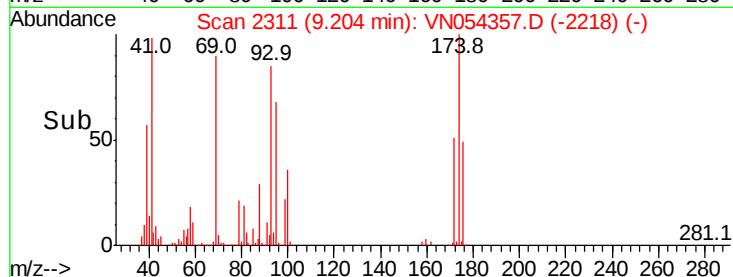
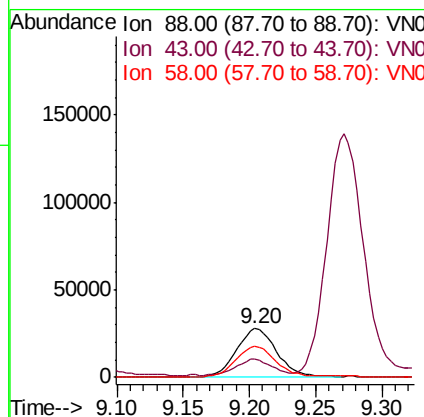
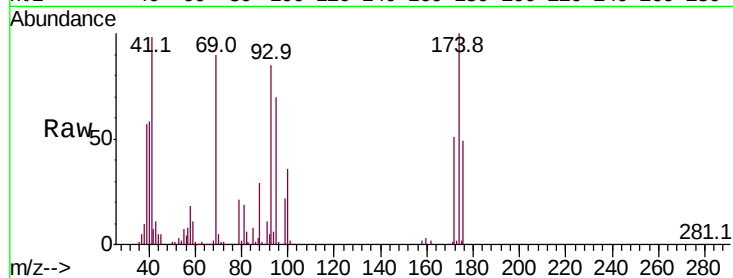
#49
1,4-Dioxane
Concen: 484.090 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

Tot Ion	Ratio	Lower	Upper
88	100		
43	28.4	24.1	36.1
58	62.4	50.8	76.2

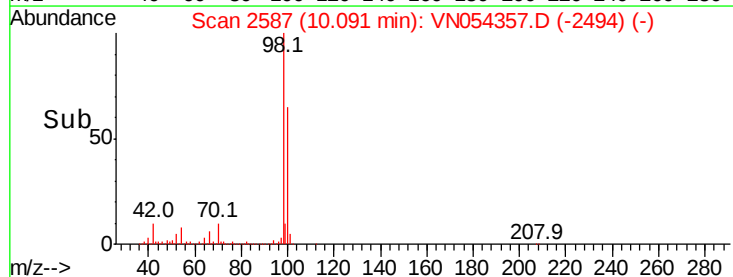
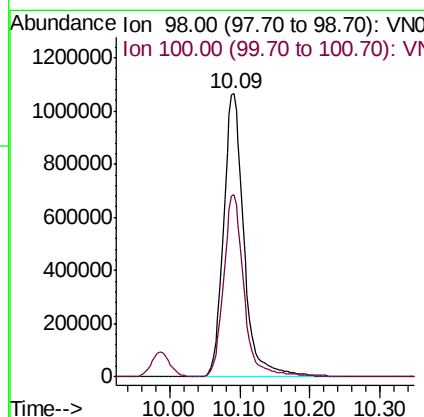
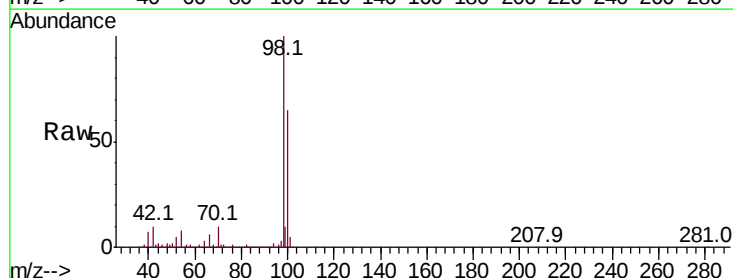
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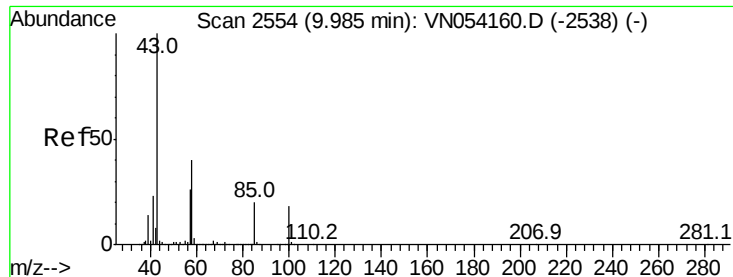
MMDadoda
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#50
Toluene-d8
Concen: 49.299 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.3	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 113.115 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS02

Tot Ion: 43 Resp: 1021861

Ion Ratio Lower Upper

43 100

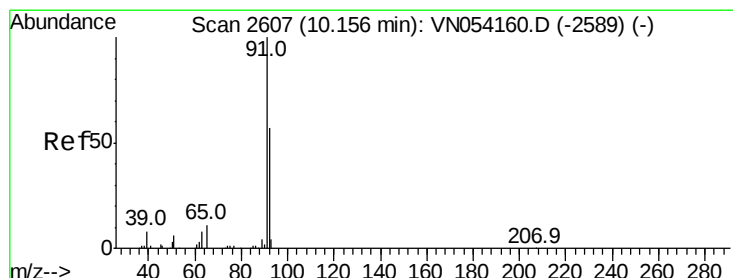
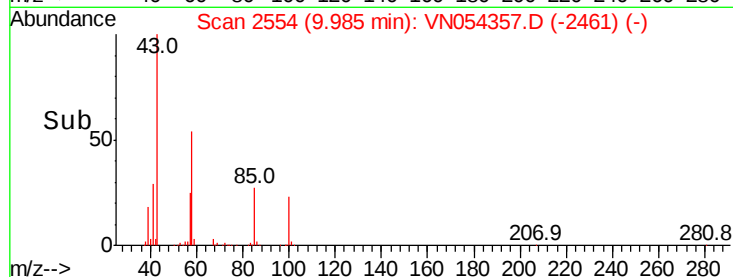
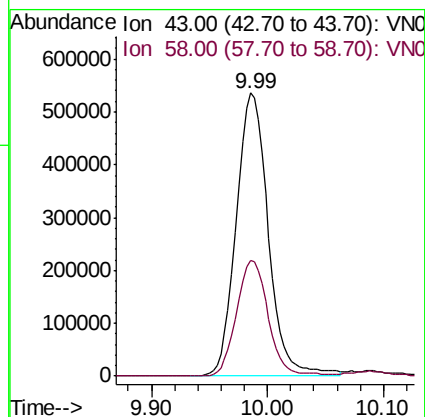
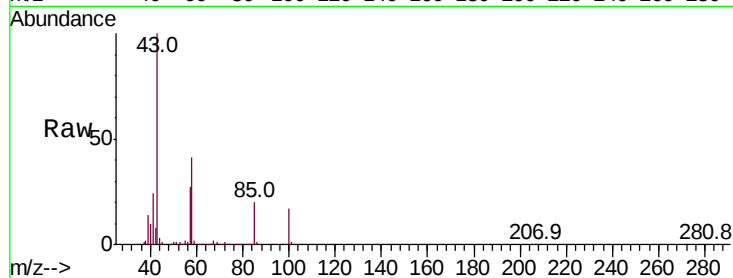
58 40.2 31.8 47.6

Manual Integrations

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#52

Toluene

Concen: 21.156 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054357.D

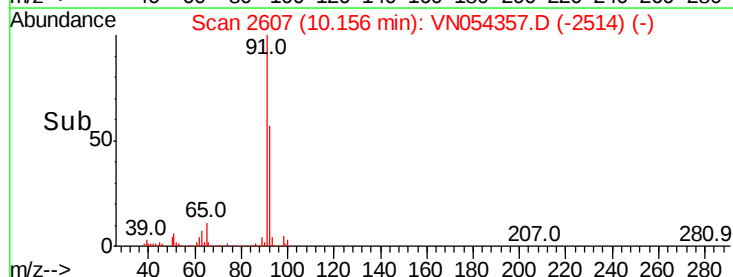
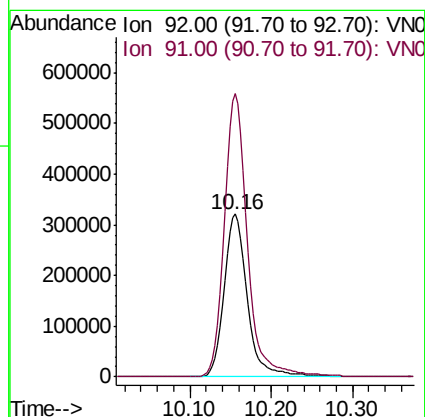
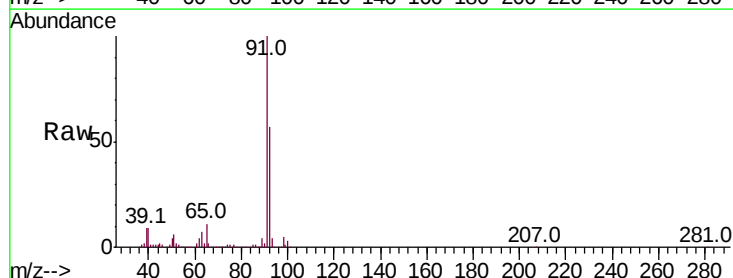
Acq: 17 Mar 2019 1:26

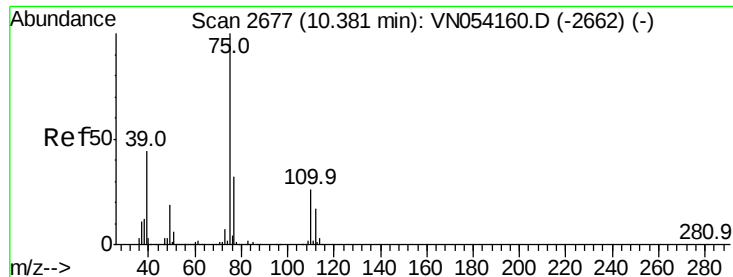
Tgt Ion: 92 Resp: 649714

Ion Ratio Lower Upper

92 100

91 173.6 140.7 211.1





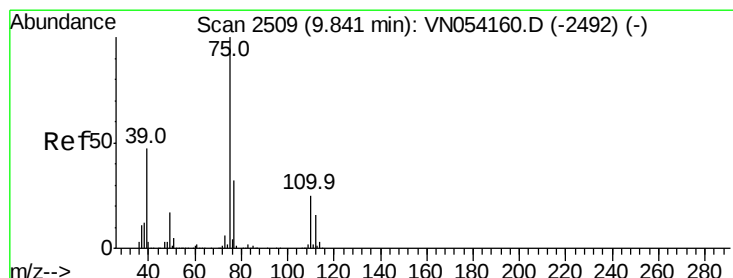
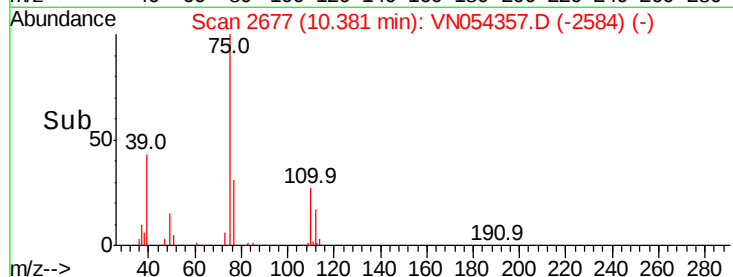
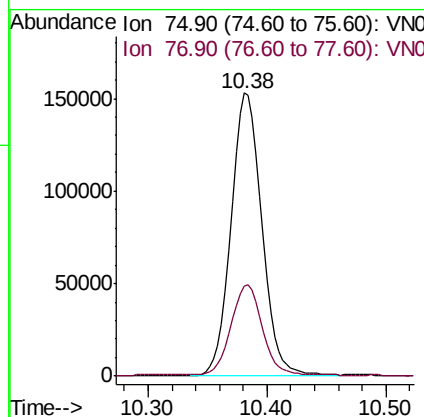
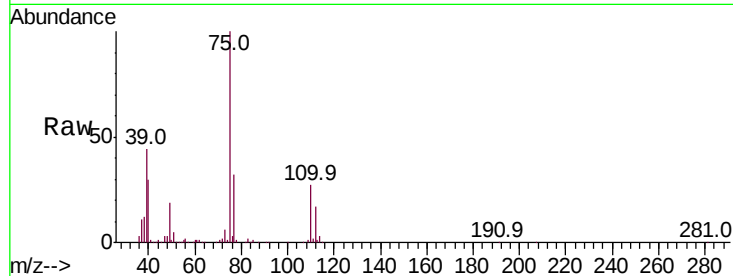
#53
t-1,3-Dichloropropene
Concen: 16.196 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampled :
VN0316WBS02

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.8	38.8

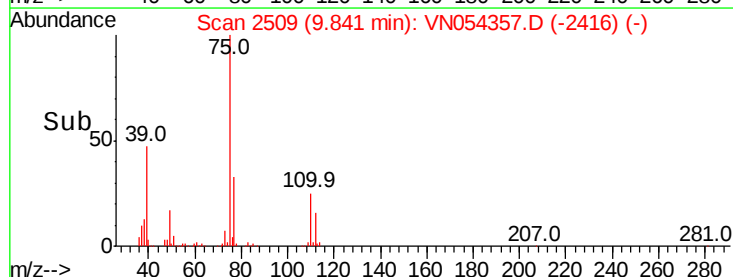
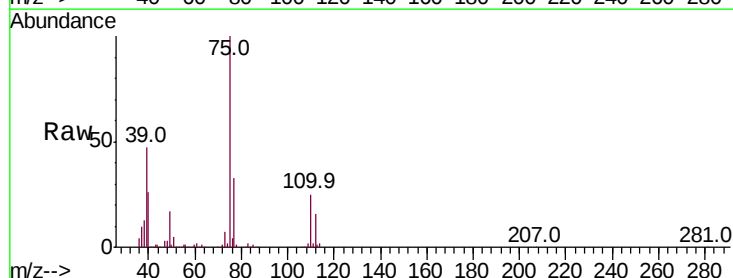
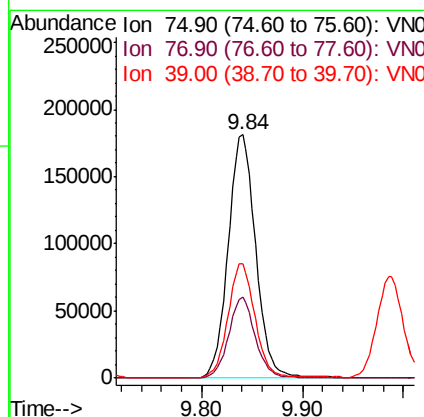
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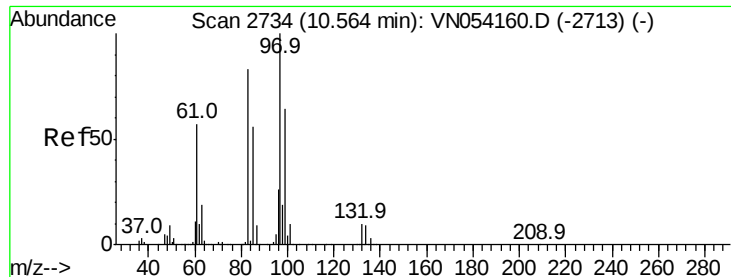
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#54
cis-1,3-Dichloropropene
Concen: 18.252 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.1	25.4	38.0
39	46.6	37.2	55.8





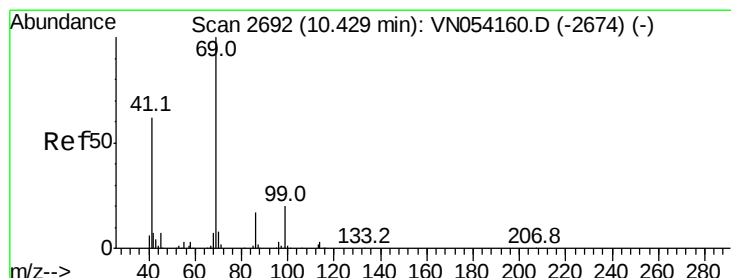
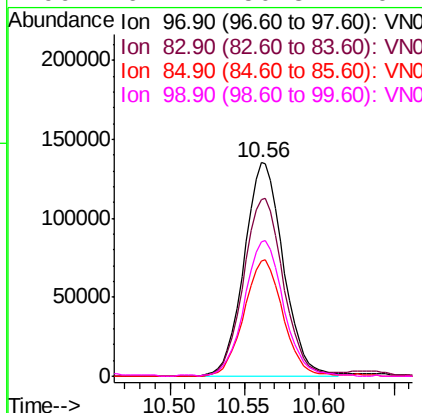
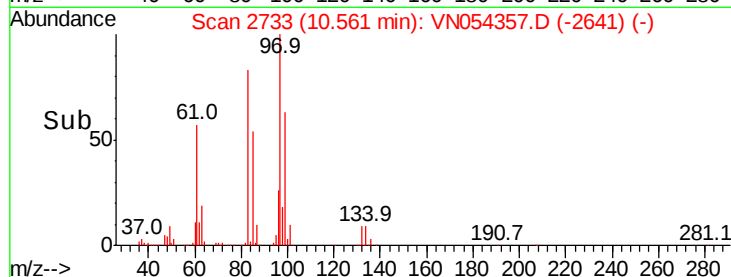
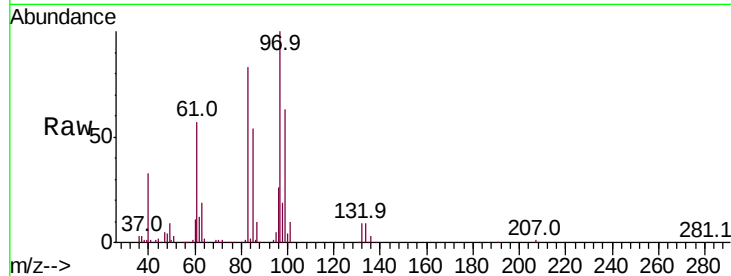
#55
1,1,2-Trichloroethane
Concen: 21.979 ug/l
RT: 10.56 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

Tot Ion	Ratio	Lower	Upper
97	100		
83	82.9	66.6	100.0
85	54.2	44.4	66.6
99	62.2	50.8	76.2

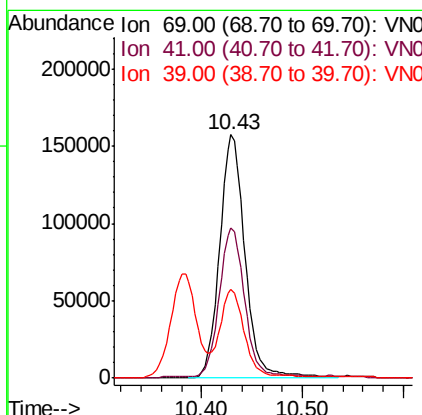
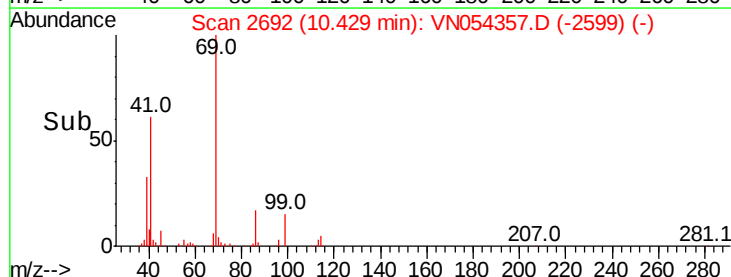
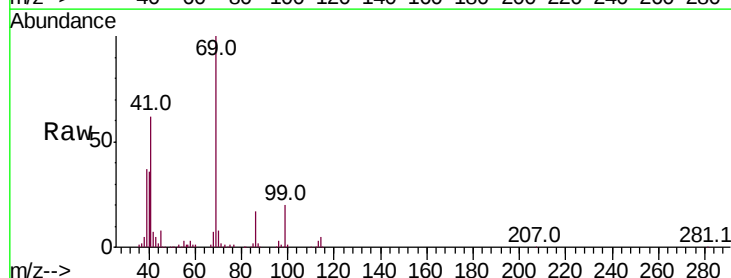
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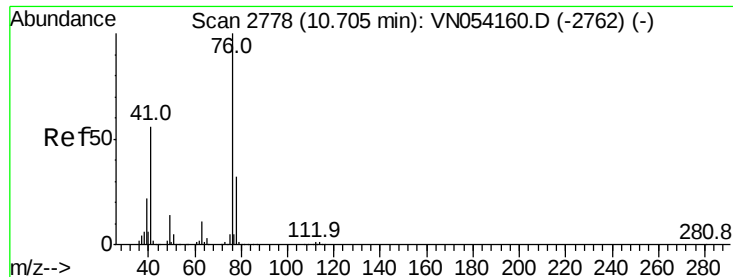
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#56
Ethyl methacrylate
Concen: 20.794 ug/l
RT: 10.43 min Scan# 2692
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Lower	Upper
69	100		
41	60.7	49.4	74.2
39	33.4	28.3	42.5





#57

1,3-Dichloropropane

Concen: 21.799 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS02

Tot Ion: 76 Resp: 399706

Ion Ratio Lower Upper

76 100

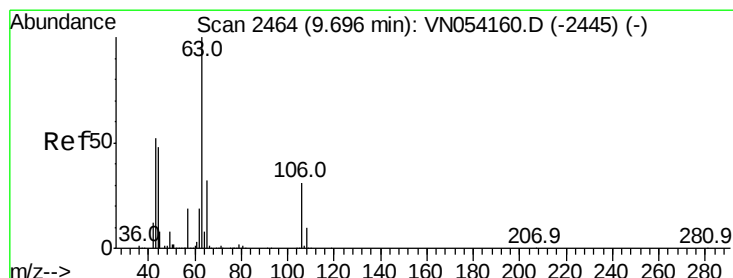
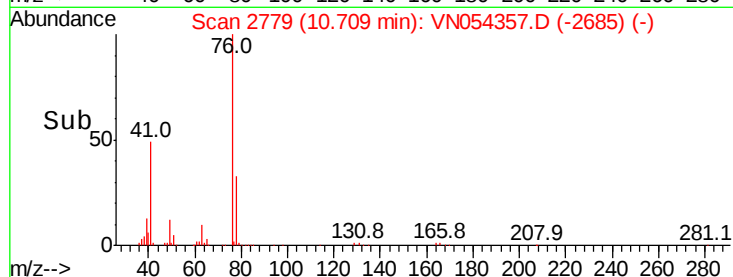
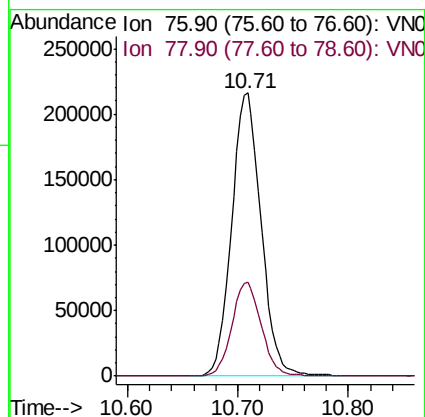
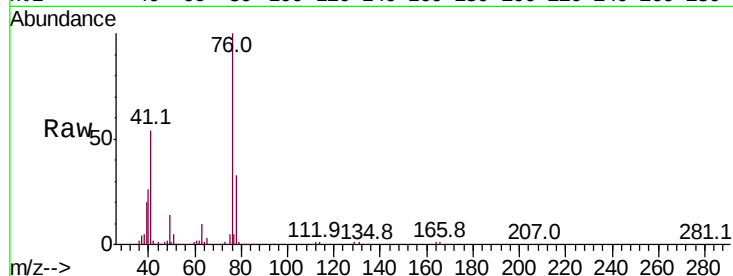
78 33.1 25.7 38.5

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 104.426 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054357.D

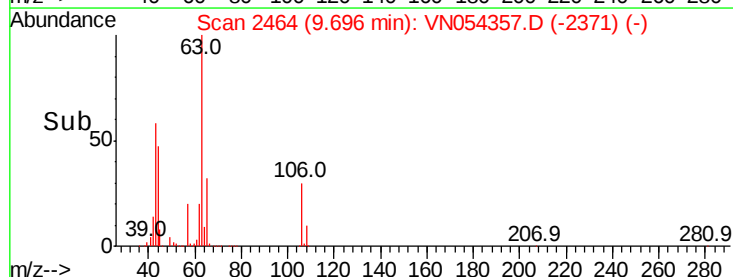
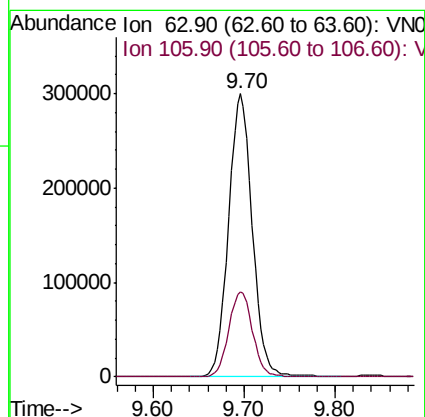
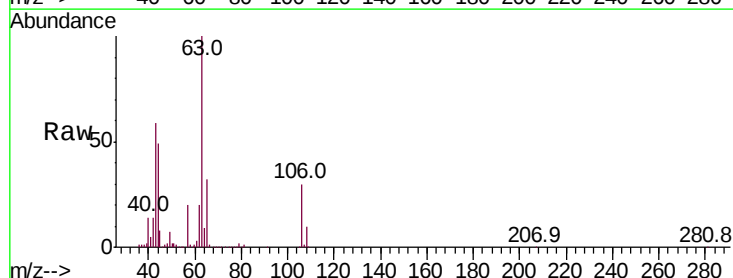
Acq: 17 Mar 2019 1:26

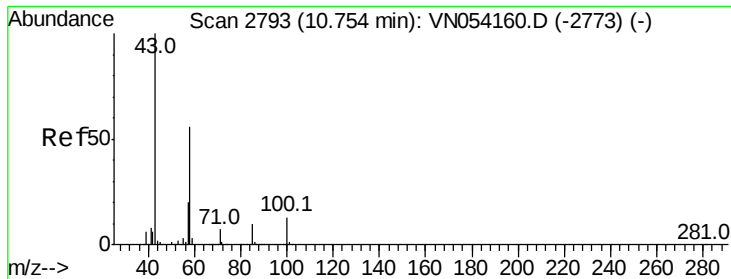
Tgt Ion: 63 Resp: 544812

Ion Ratio Lower Upper

63 100

106 30.3 24.4 36.6





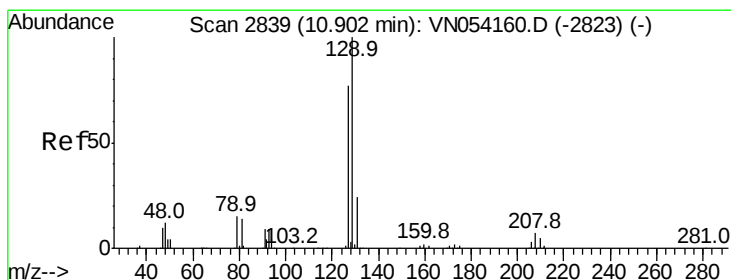
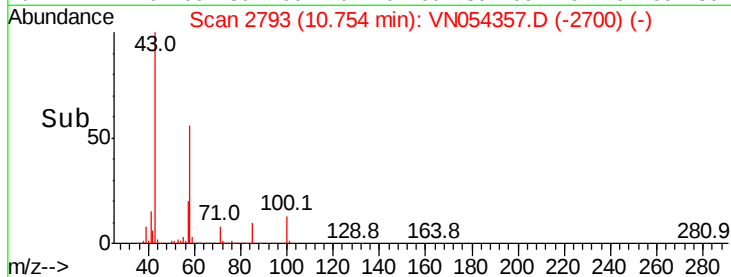
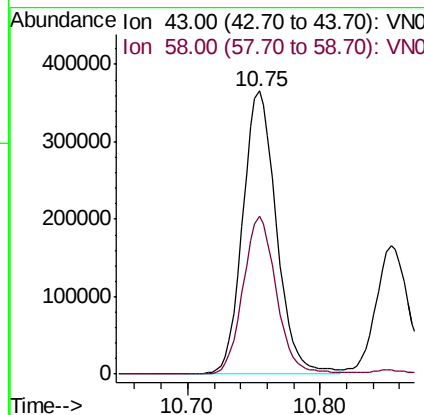
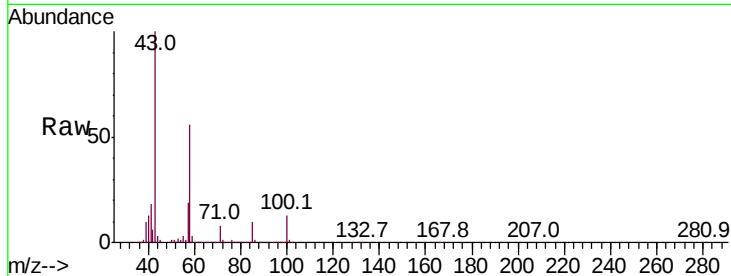
#59
2-Hexanone
Concen: 106.892 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.4	28.0	83.9

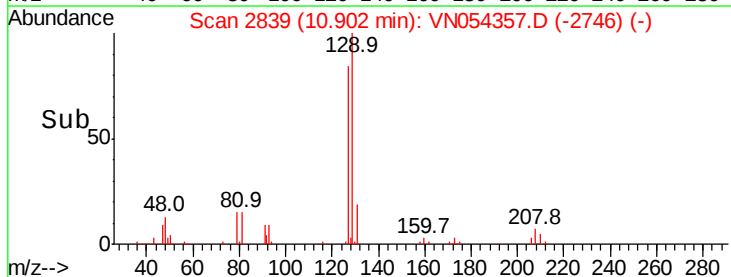
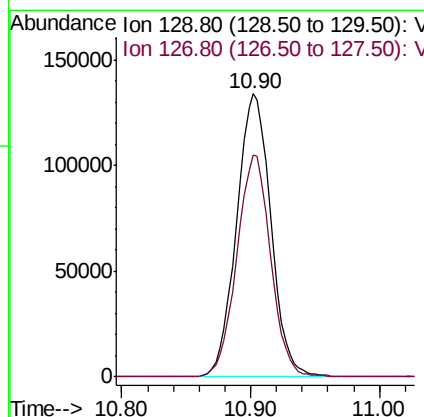
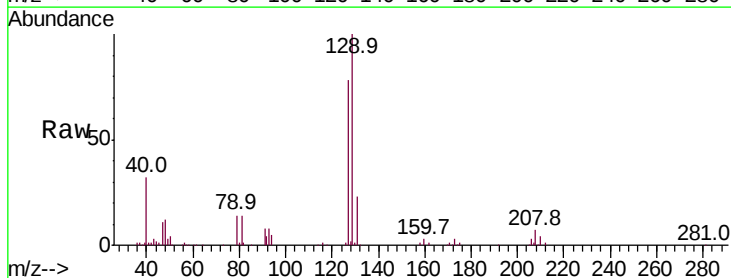
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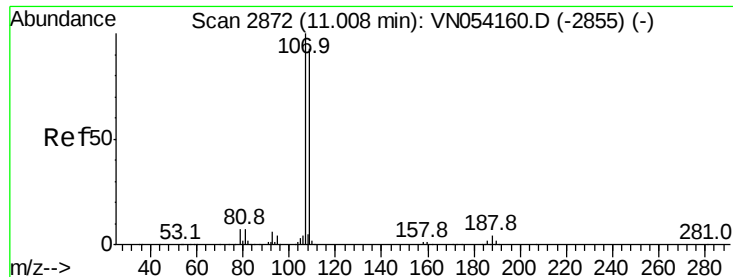
MMDadoda
3/18/2019 12:05:45 PM



#60
Dibromochloromethane
Concen: 19.644 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.6	115.8





#61

1,2-Dibromoethane

Concen: 21.599 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS02

Tot Ion: 107 Resp: 246128

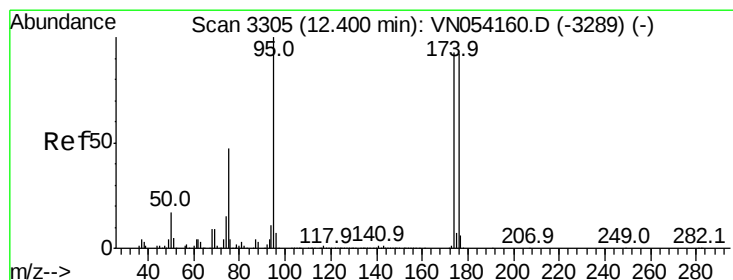
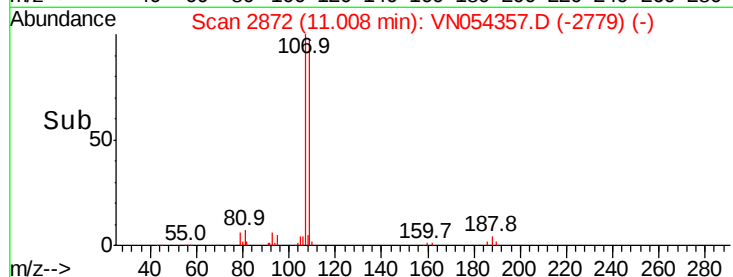
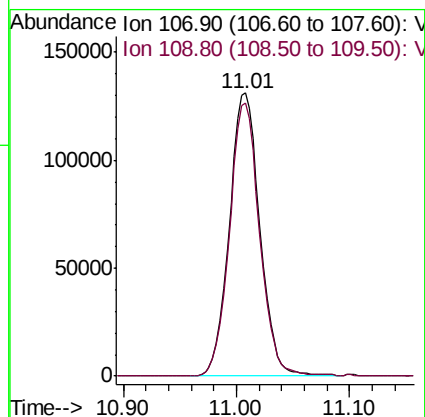
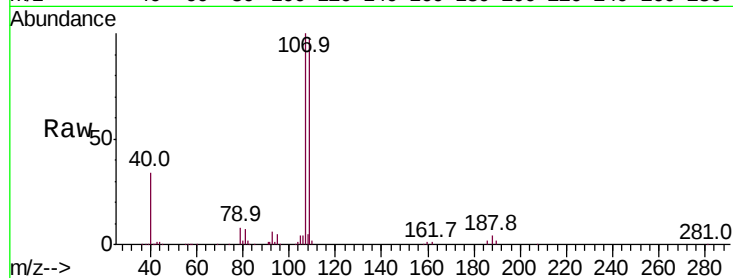
Ion Ratio Lower Upper

107 100

109 95.4 75.9 113.9

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#62

4-Bromofluorobenzene

Concen: 46.847 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

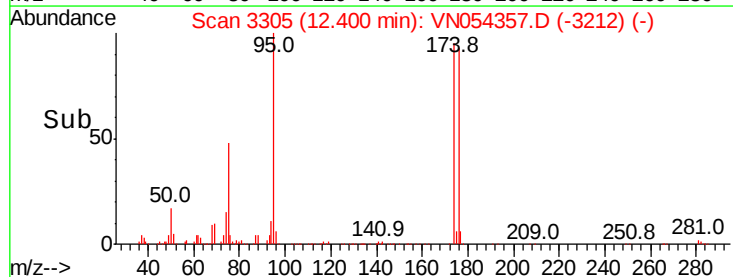
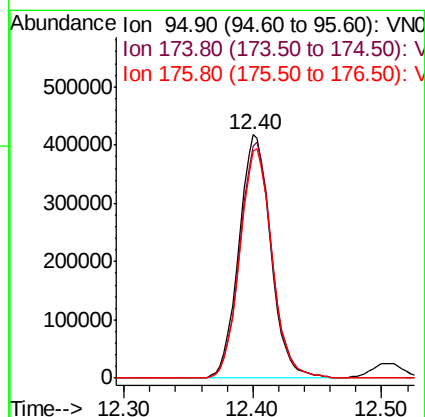
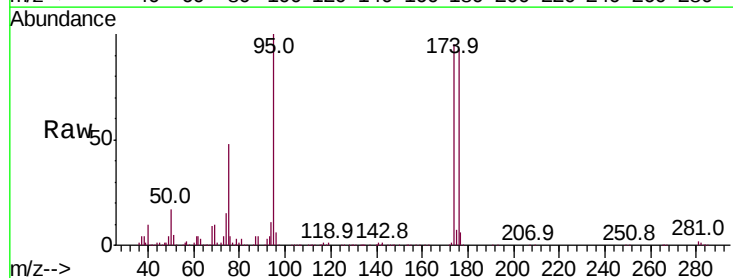
Tgt Ion: 95 Resp: 717596

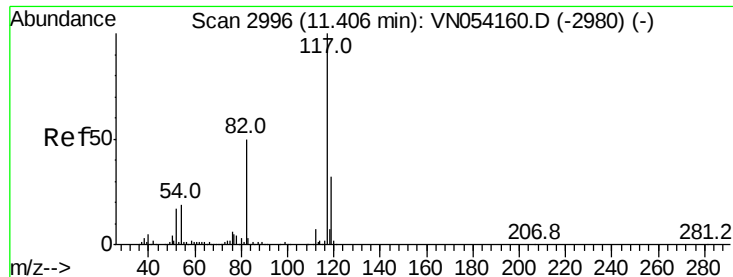
Ion Ratio Lower Upper

95 100

174 97.5 0.0 191.0

176 95.0 0.0 187.4





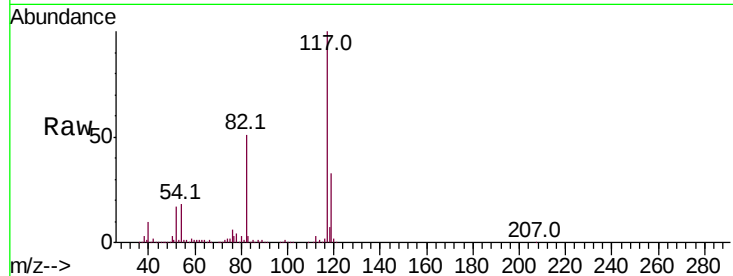
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

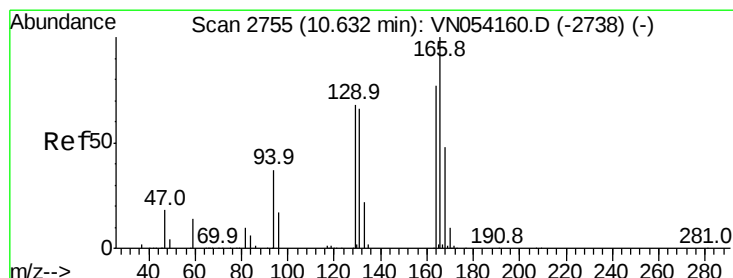
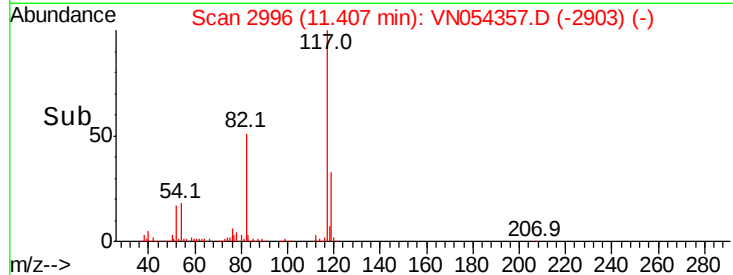
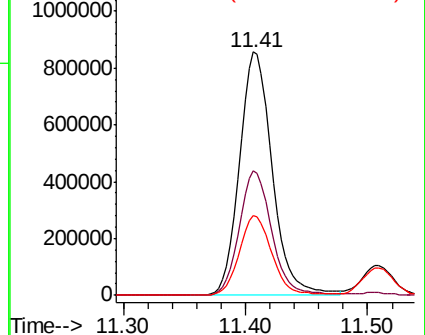
Tot Ion:117 Resp: 1590263
Ion Ratio Lower Upper
117 100
82 51.2 40.0 60.0
119 32.5 25.8 38.6

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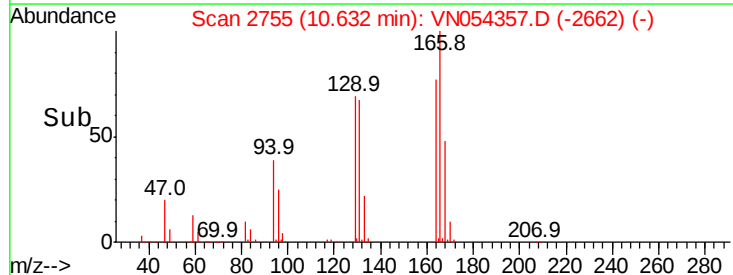
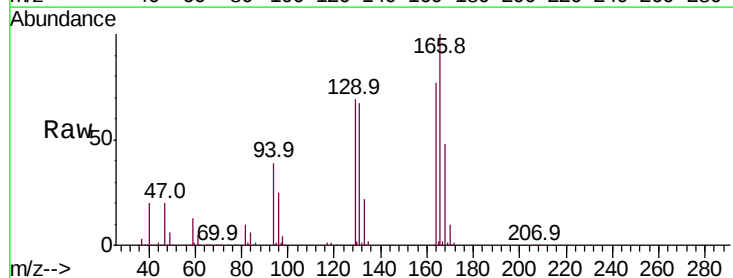
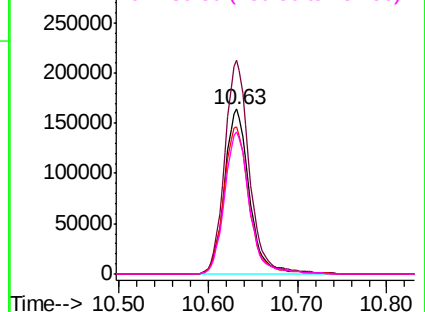
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

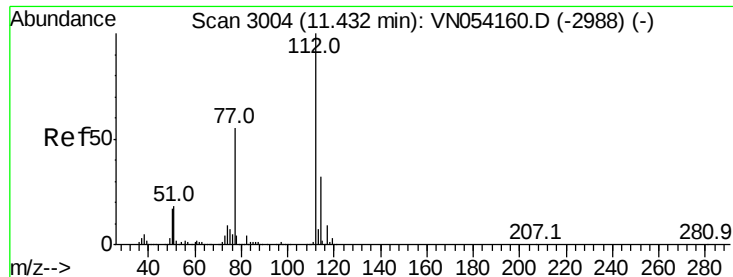


#64
Tetrachloroethene
Concen: 20.610 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion:164 Resp: 316883
Ion Ratio Lower Upper
164 100
166 129.5 103.9 155.9
129 89.4 71.1 106.7
131 86.2 68.2 102.4

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





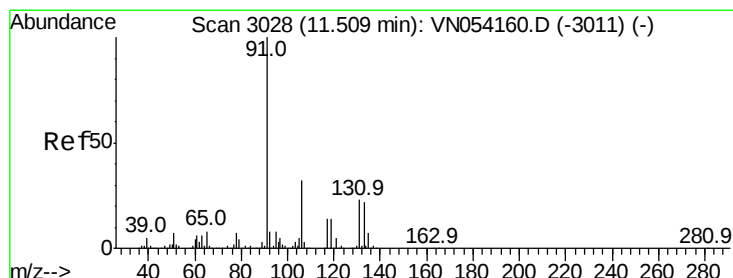
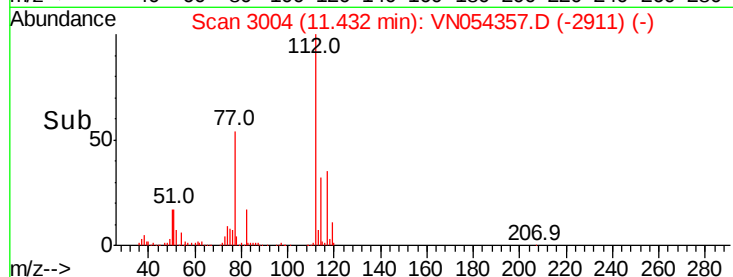
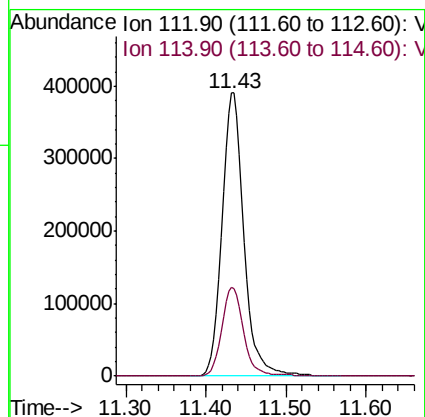
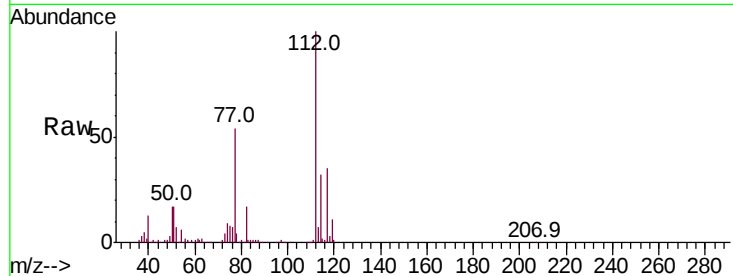
#65
Chlorobenzene
Concen: 21.191 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

Tot Ion	Ratio	Resp	Lower	Upper
112	100	739932		
114	31.6	25.9	38.9	

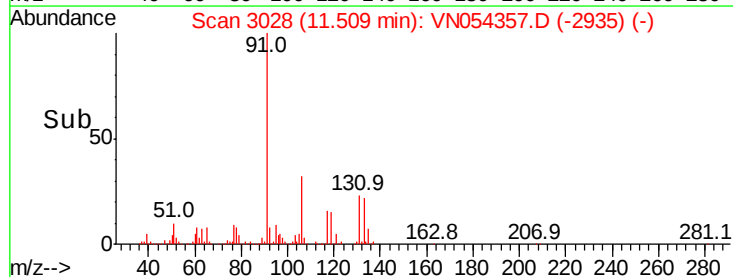
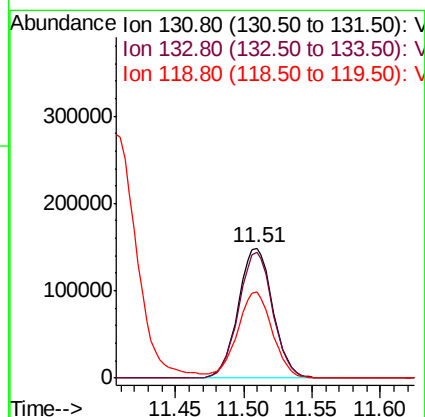
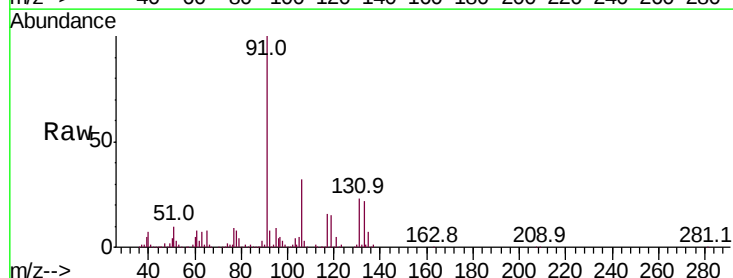
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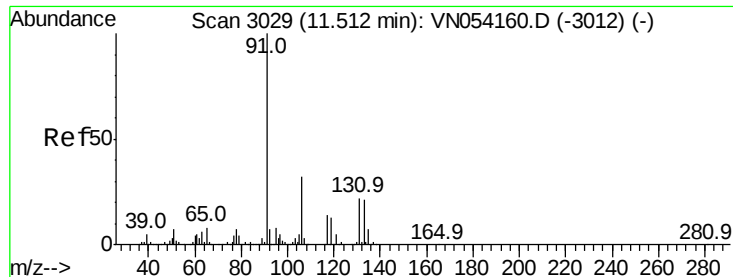
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.689 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	262434		
133	95.9	47.6	142.9	
119	67.4	32.4	97.0	





#67

Ethyl Benzene

Concen: 20.599 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

ClientSampled :

VN0316WBS02

Tot Ion: 91 Resp: 1192319

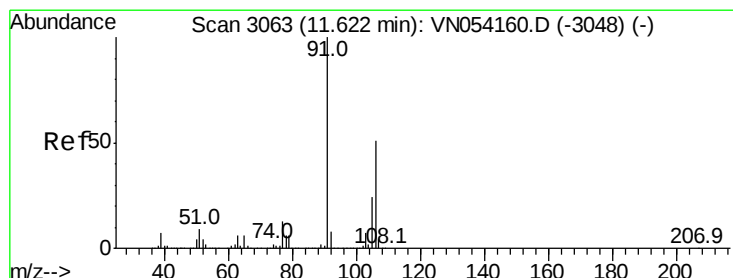
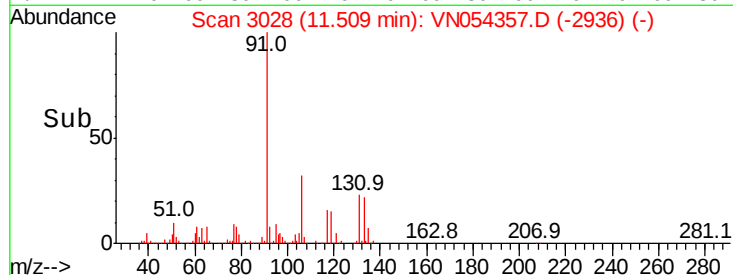
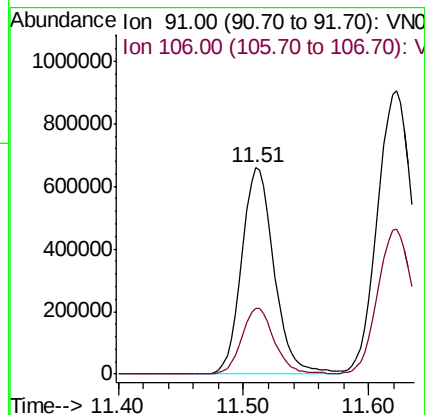
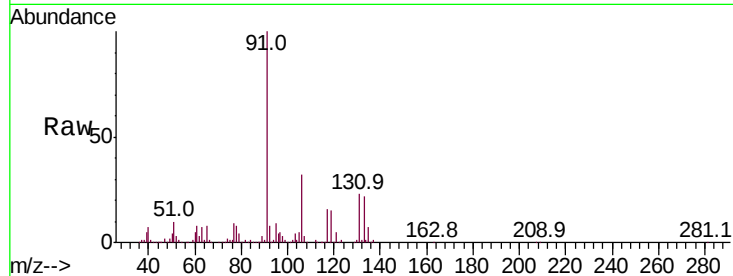
Ion Ratio Lower Upper

91 100

106 32.1 25.5 38.3

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#68

m/p-Xylenes

Concen: 41.594 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN054357.D

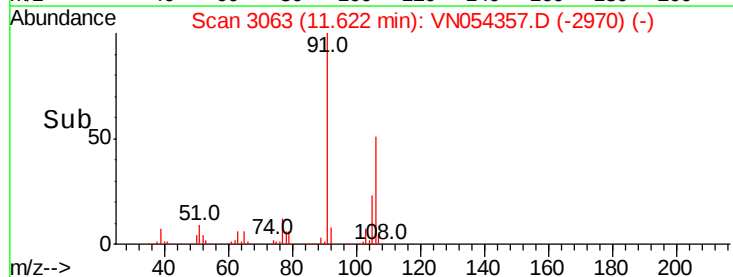
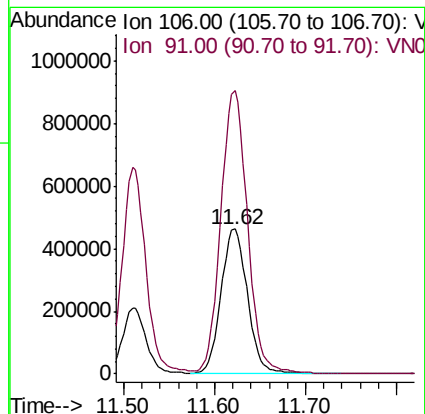
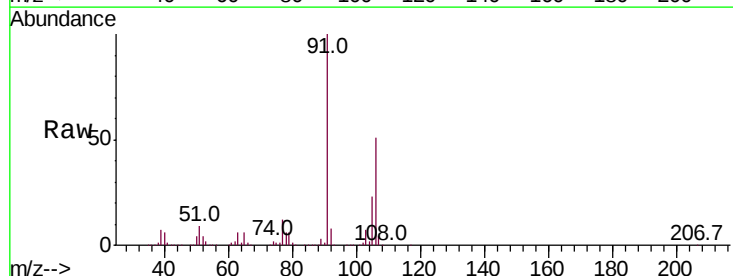
Acq: 17 Mar 2019 1:26

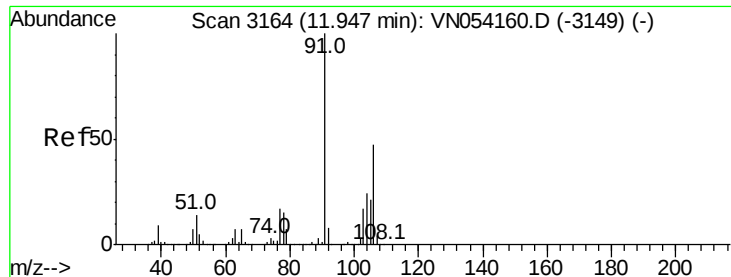
Tgt Ion: 106 Resp: 940984

Ion Ratio Lower Upper

106 100

91 196.6 159.4 239.2





#69

o-Xylene

Concen: 21.343 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS02

Tot Ion:106 Resp: 470694

Ion Ratio Lower Upper

106 100

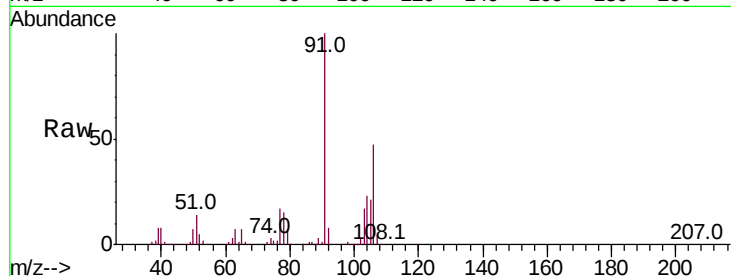
91 209.0 105.7 317.1

Manual Integrations

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

600000

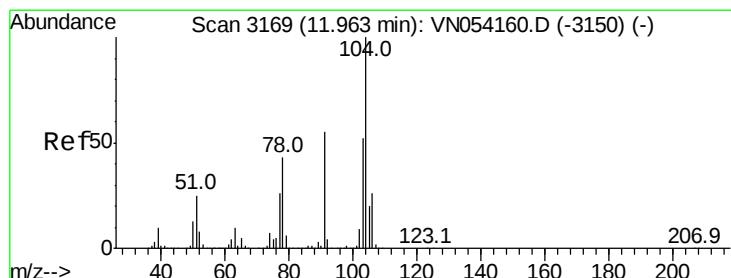
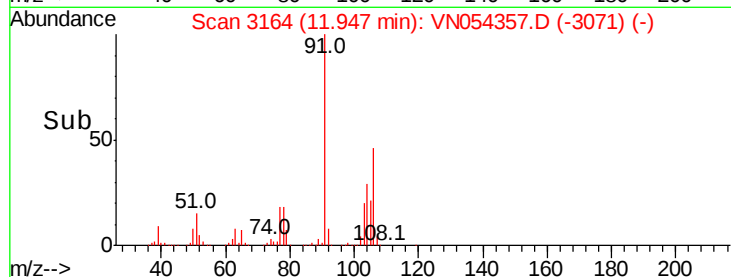
400000

200000

0

11.95

Time-->



#70

Styrene

Concen: 20.910 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

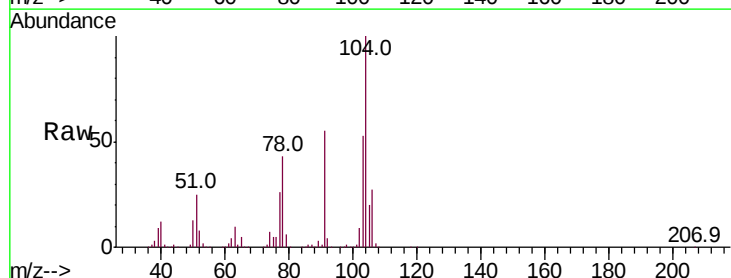
Tgt Ion:104 Resp: 723215

Ion Ratio Lower Upper

104 100

78 47.7 38.2 57.2

103 56.4 44.4 66.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V

500000

400000

300000

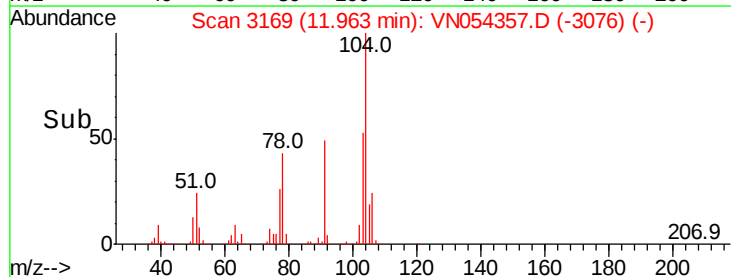
200000

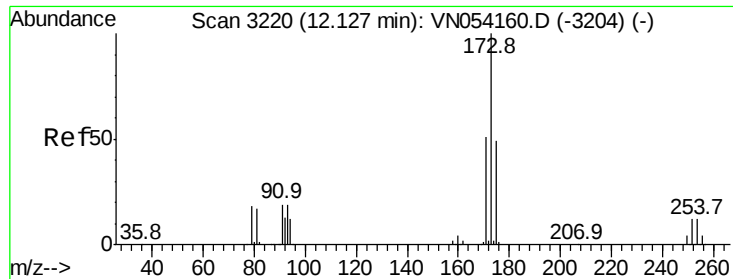
100000

0

11.96

Time-->





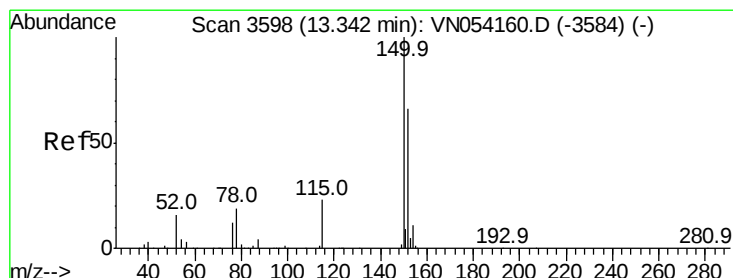
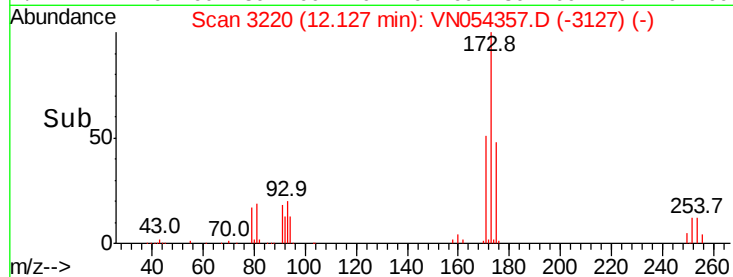
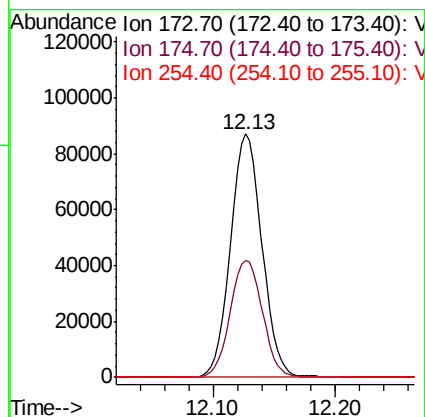
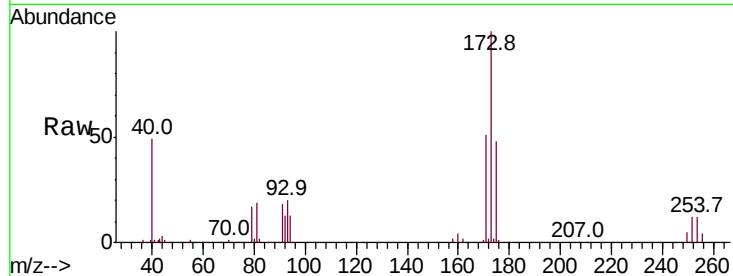
#71
Bromoform
Concen: 17.815 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.4	73.2
254	0.1	0.1	0.1

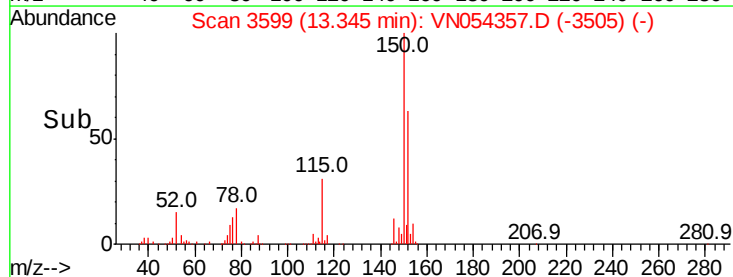
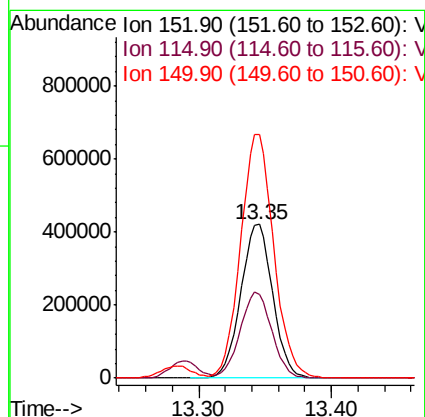
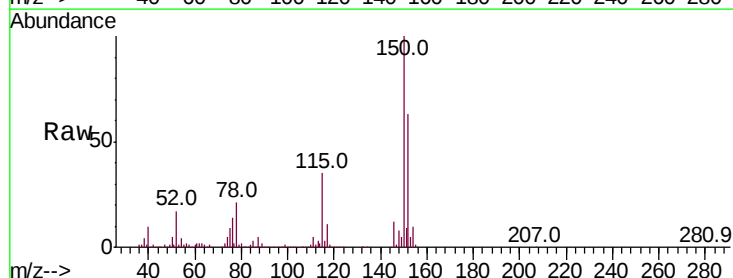
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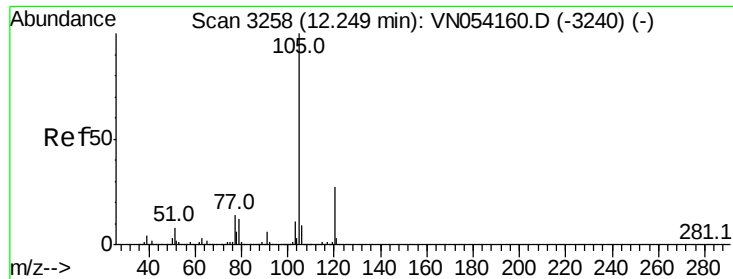
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.5	27.2	81.6
150	164.6	0.0	349.2





#73

Isopropylbenzene

Concen: 21.796 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS02

Tot Ion:105 Resp: 1225174

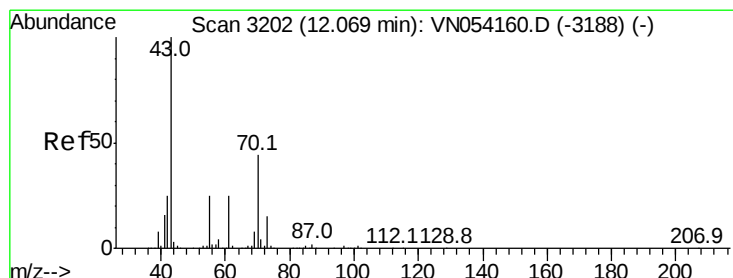
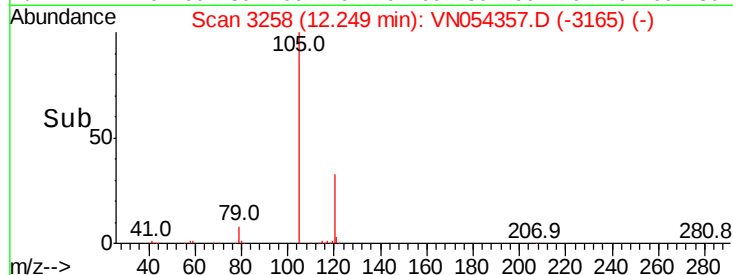
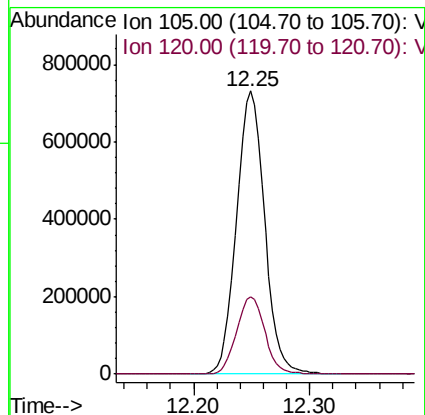
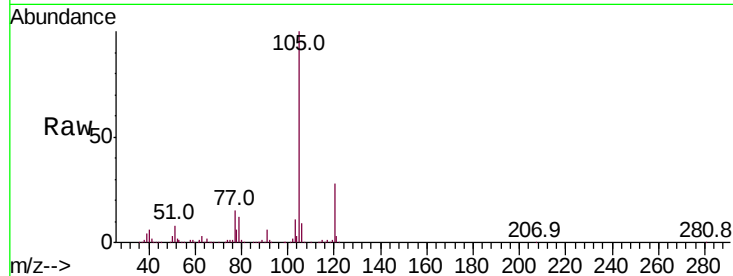
Ion Ratio Lower Upper

105 100

120 27.6 13.8 41.3

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#74

N-ethyl acetate

Concen: 21.867 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Tgt Ion: 43 Resp: 272829

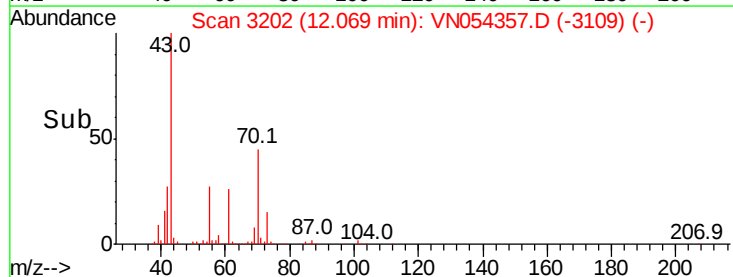
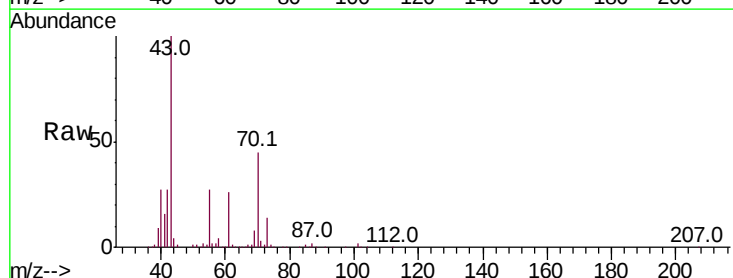
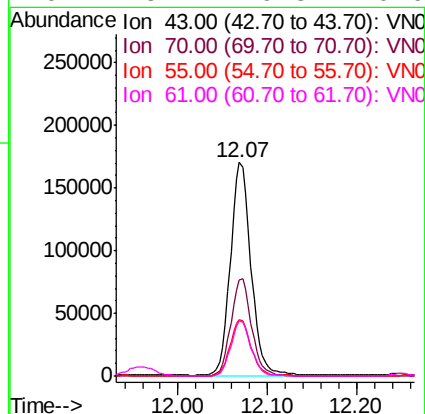
Ion Ratio Lower Upper

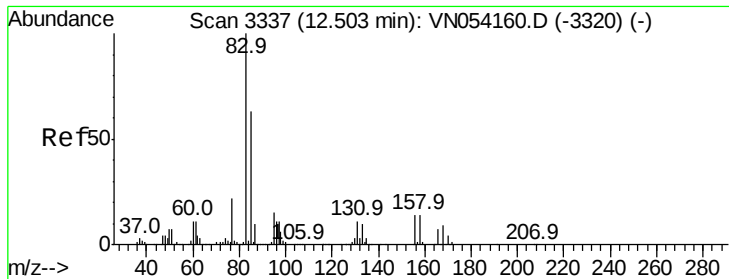
43 100

70 45.7 35.4 53.0

55 27.0 19.8 29.6

61 25.4 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 23.945 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

ClientSampled :

VN0316WBS02

Tot Ion: 83 Resp: 286765
Ion Ratio Lower Upper

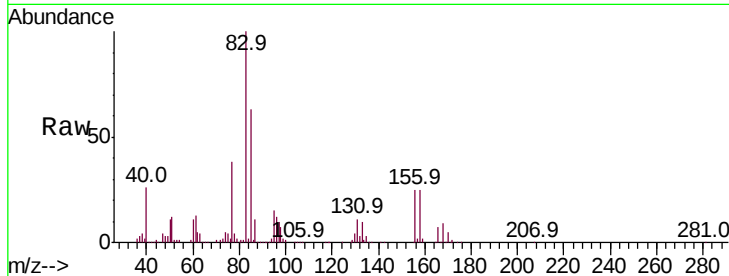
83 100

131 11.5 5.8 17.4

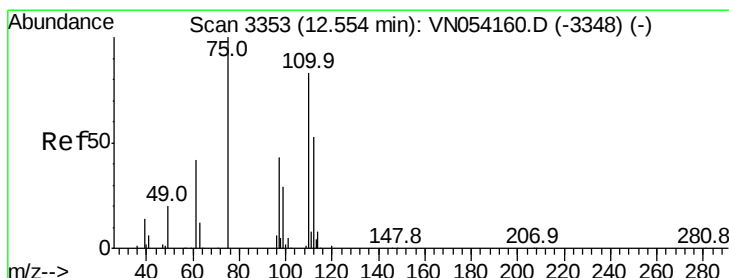
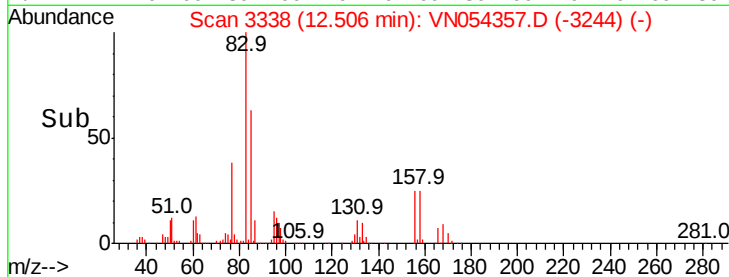
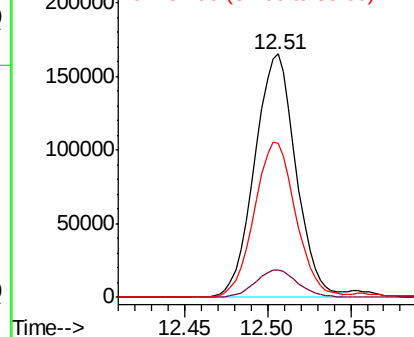
85 64.2 32.2 96.6

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Abundance Ion 82.90 (82.60 to 83.60): VNC
Ion 130.80 (130.50 to 131.50): VNC
Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 23.923 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

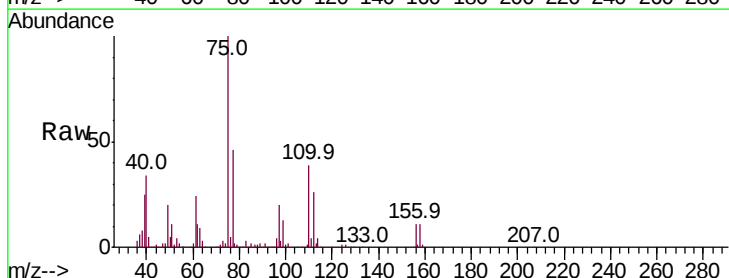
Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

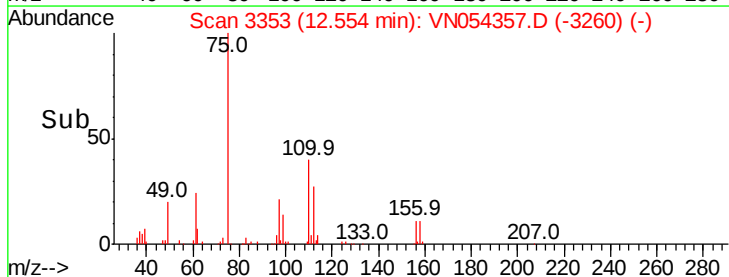
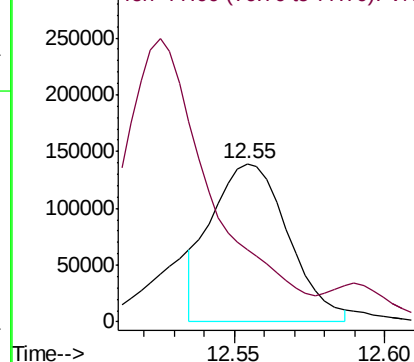
Tgt Ion: 75 Resp: 247173
Ion Ratio Lower Upper

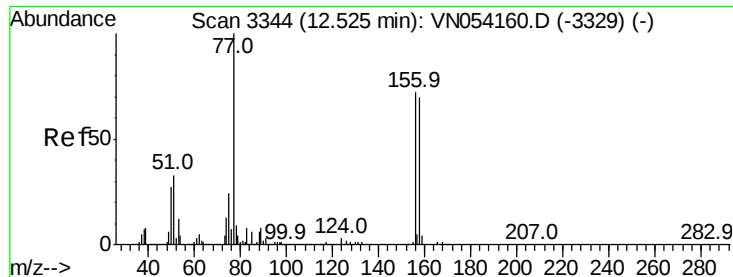
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNC
Ion 77.00 (76.70 to 77.70): VNC





#77

Bromobenzene

Concen: 21.613 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

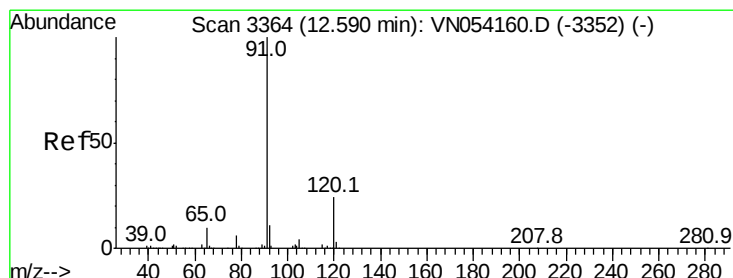
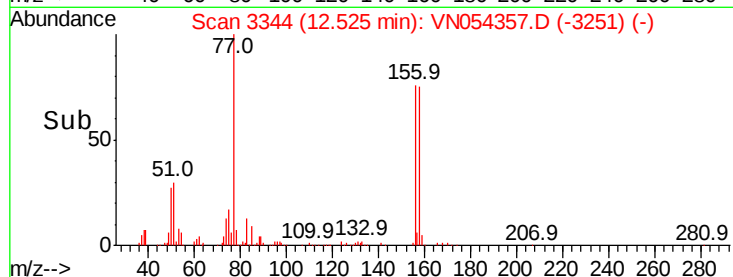
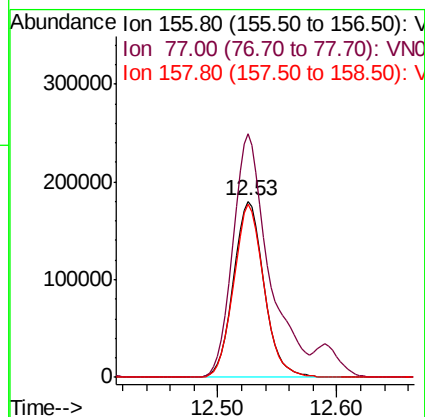
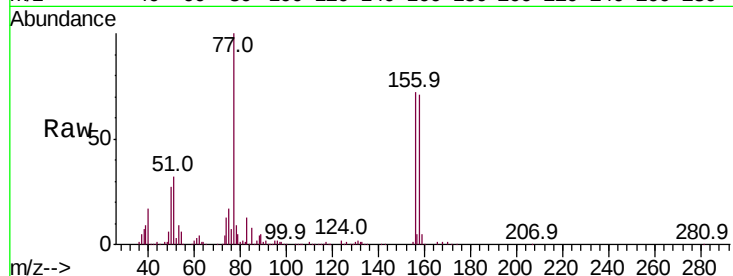
ClientSampleId :

VN0316WBS02

Tot Ion	Ratio	Lower	Upper
156	100		
77	162.1	81.5	244.4
158	97.4	49.0	147.2

Manual Integrations
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#78

n-propylbenzene

Concen: 21.097 ug/l

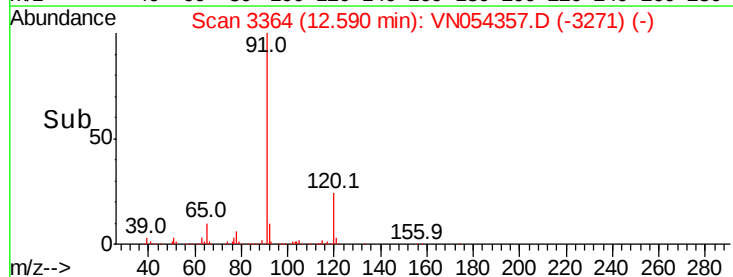
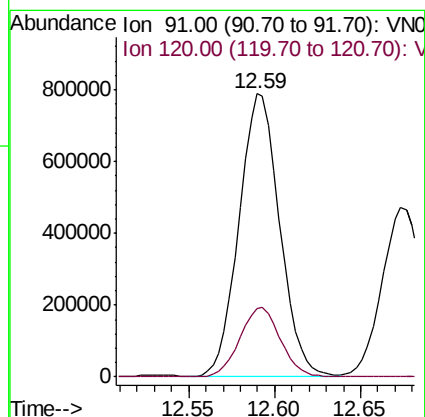
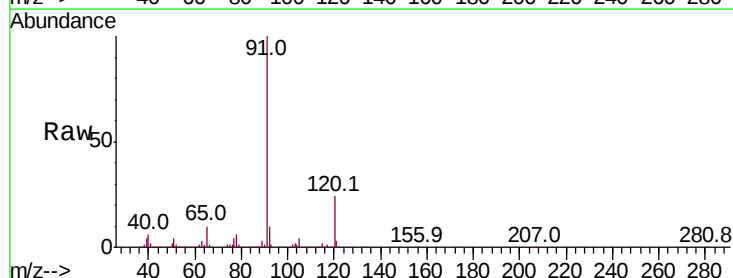
RT: 12.59 min Scan# 3364

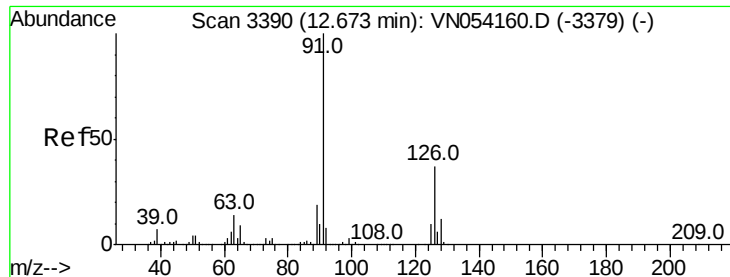
Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.6	12.3	36.9





#79

2-Chlorotoluene

Concen: 21.894 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

ClientSampled :

VN0316WBS02

Tot Ion: 91 Resp: 802920

Ion Ratio Lower Upper

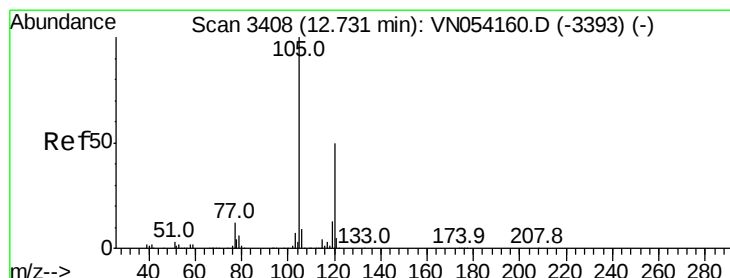
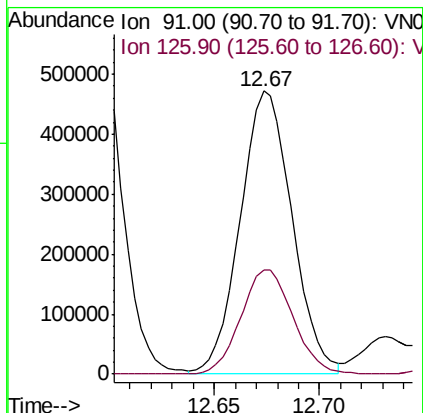
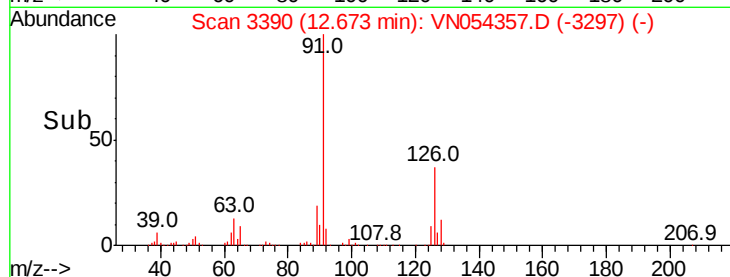
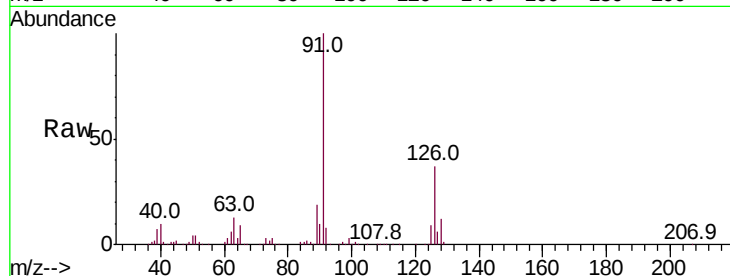
91 100

126 37.4 18.7 56.1

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 21.225 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054357.D

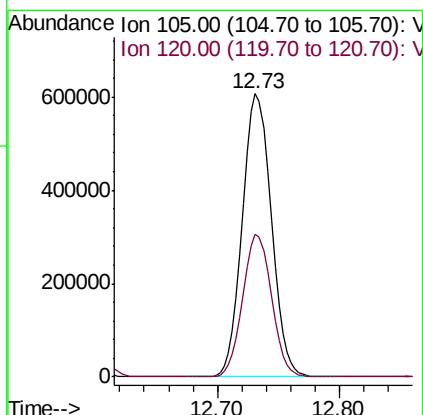
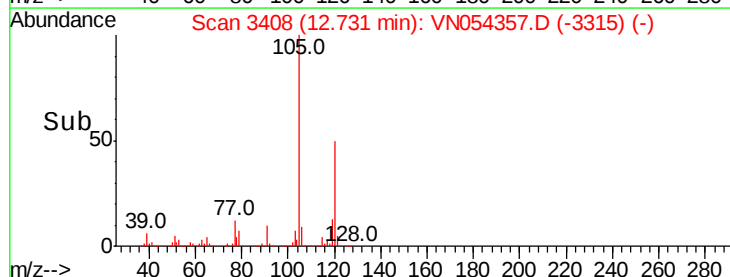
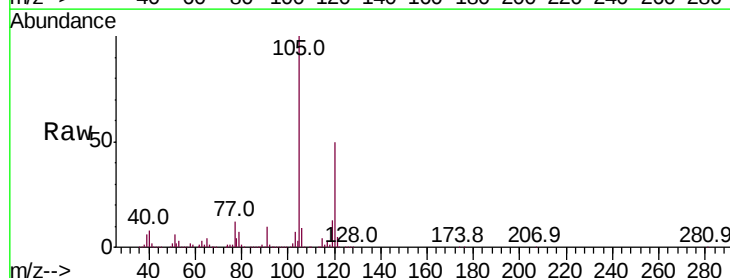
Acq: 17 Mar 2019 1:26

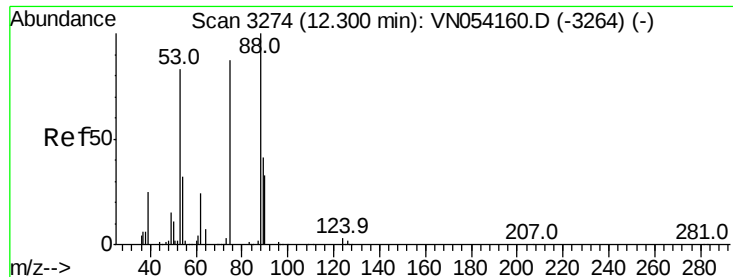
Tgt Ion: 105 Resp: 992402

Ion Ratio Lower Upper

105 100

120 50.2 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 12.691 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS02

Tot Ion: 75 Resp: 38357

Ion Ratio Lower Upper

75 100

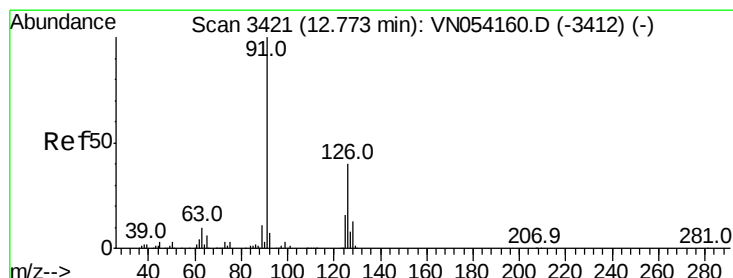
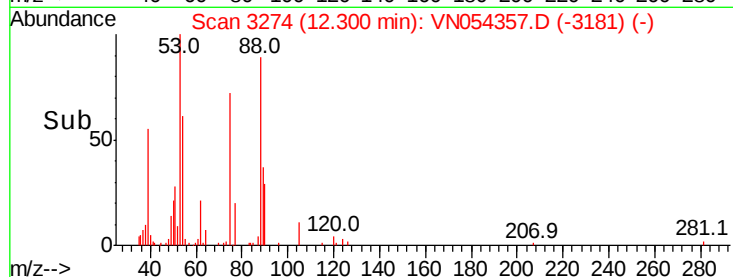
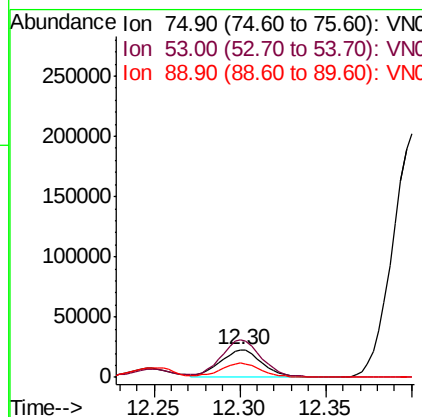
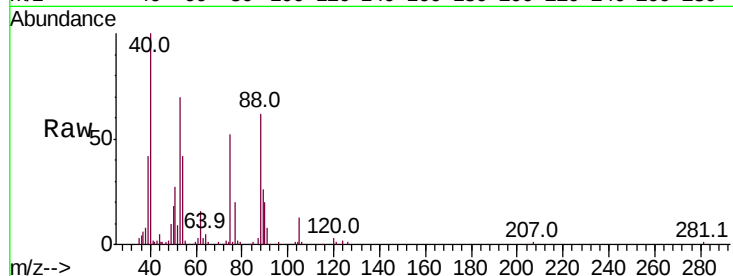
53 136.5 76.2 114.2#

89 50.2 39.2 58.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.908 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN054357.D

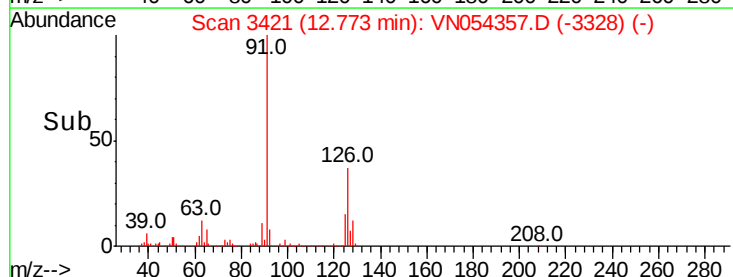
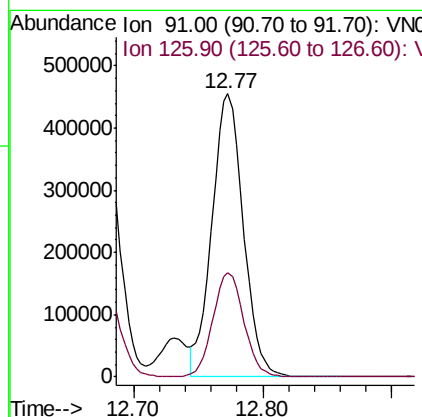
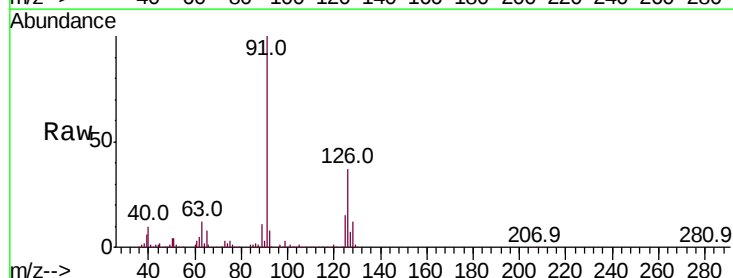
Acq: 17 Mar 2019 1:26

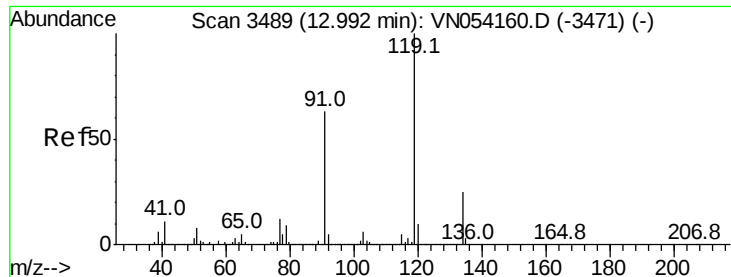
Tgt Ion: 91 Resp: 765620

Ion Ratio Lower Upper

91 100

126 36.5 18.1 54.1





#83

tert-Butylbenzene

Concen: 21.431 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

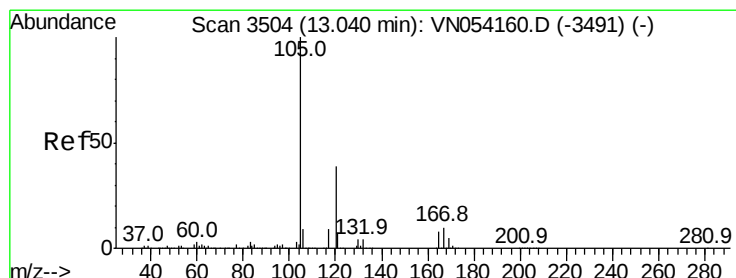
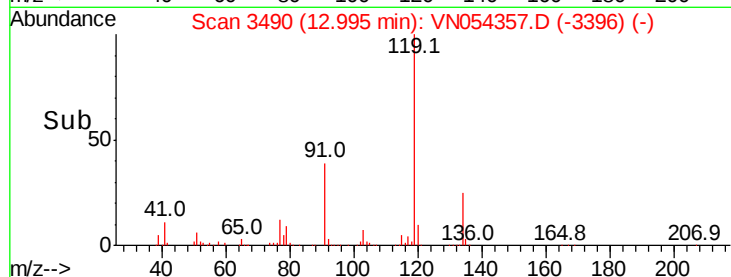
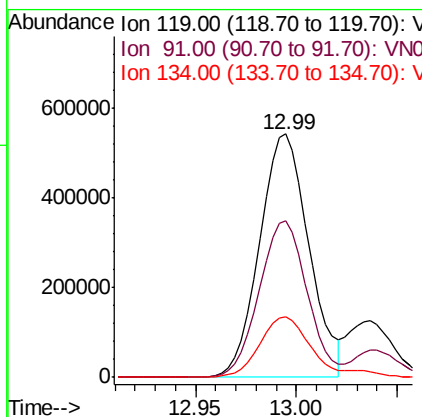
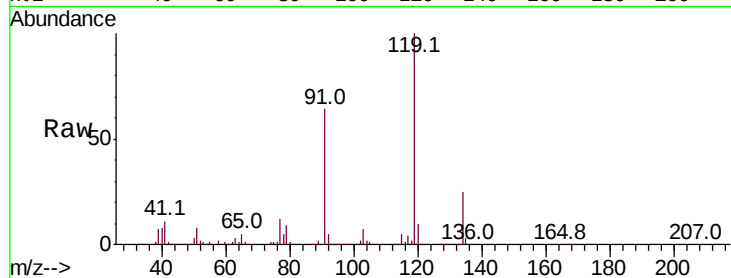
ClientSampleId :

VN0316WBS02

Tot Ion:	119	Resp:	922291
Ion Ratio	Lower	Upper	
119	100		
91	62.4	30.9	92.8
134	26.8	13.2	39.6

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 21.289 ug/l

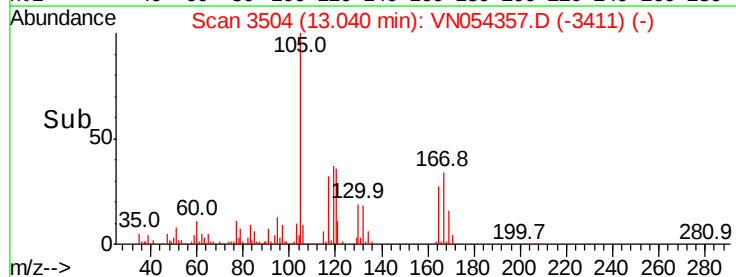
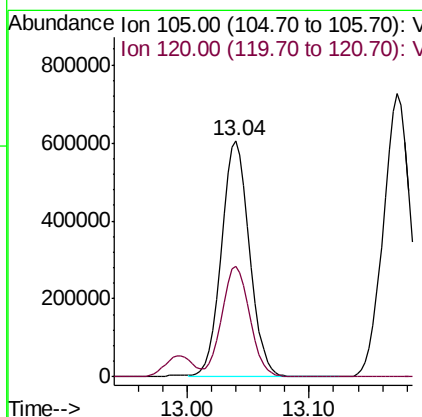
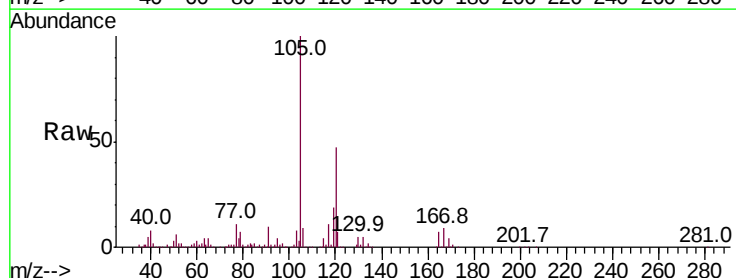
RT: 13.04 min Scan# 3504

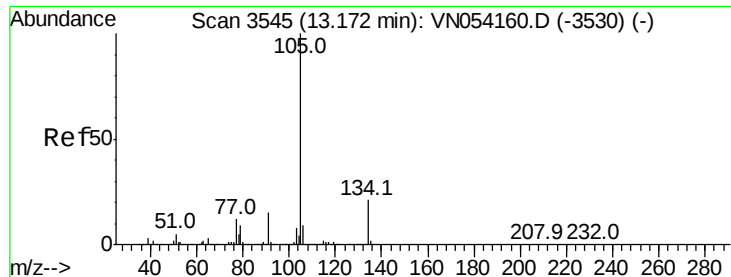
Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Tgt Ion:	105	Resp:	976514
Ion Ratio	Lower	Upper	
105	100		
120	47.0	23.4	70.3





#85

sec-Butylbenzene

Concen: 20.501 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBS02

Tot Ion:105 Resp: 1144187

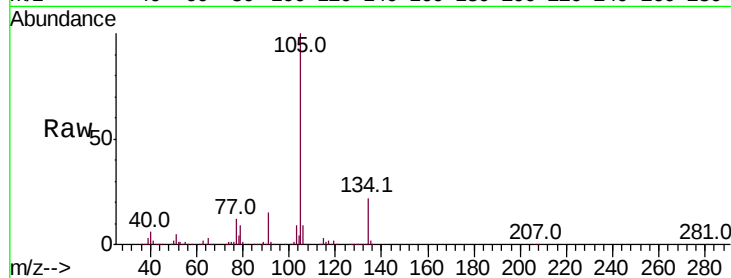
Ion Ratio Lower Upper

105 100

134 21.5 10.7 32.1

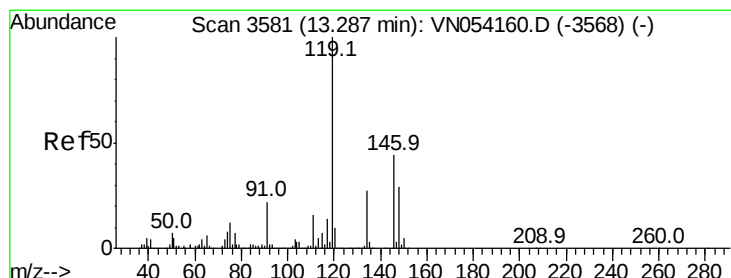
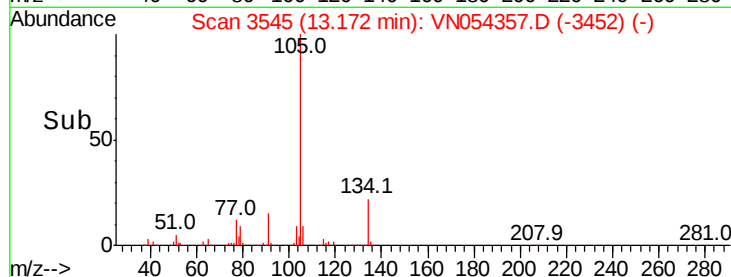
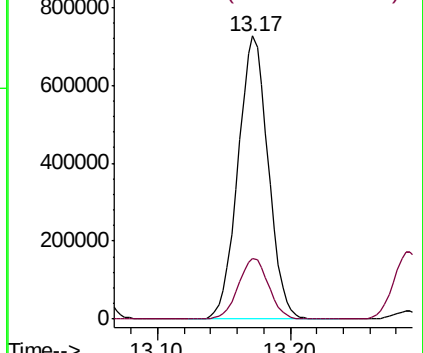
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.064 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

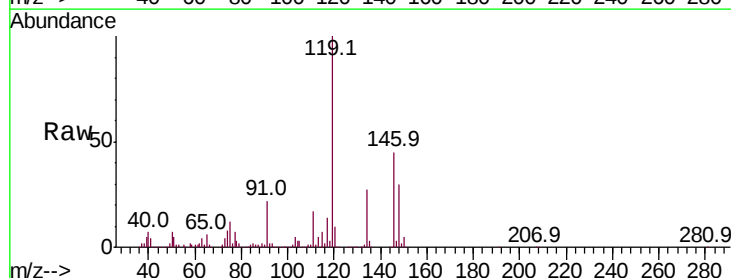
Tgt Ion:119 Resp: 982431

Ion Ratio Lower Upper

119 100

134 27.5 13.6 40.8

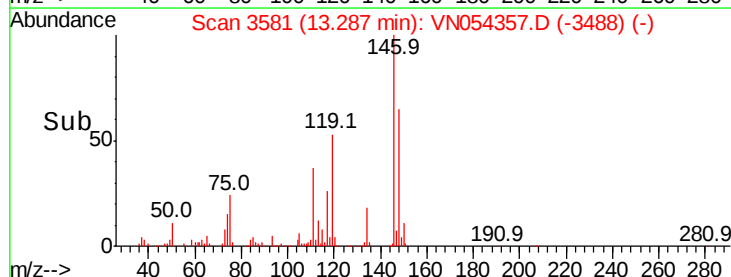
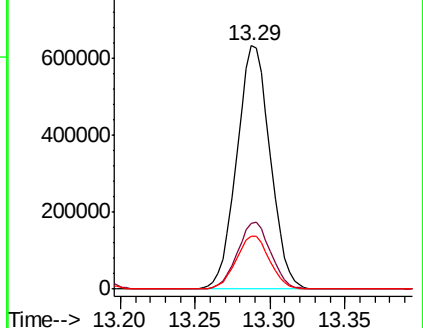
91 22.0 11.1 33.3

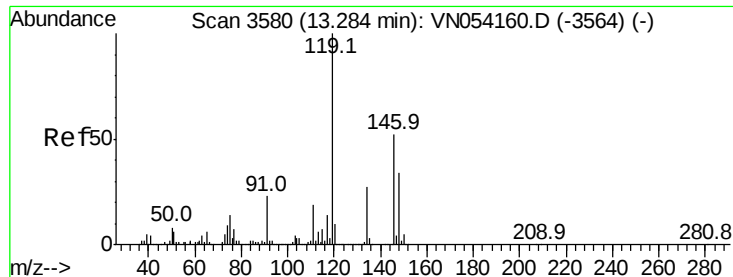


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





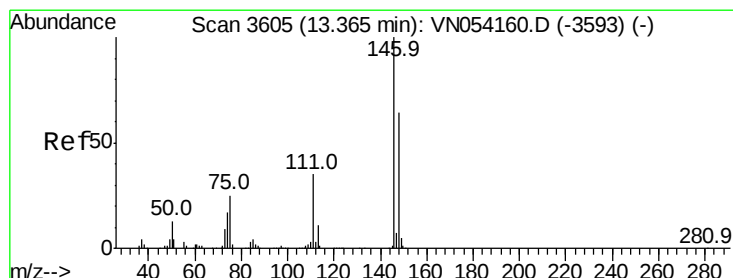
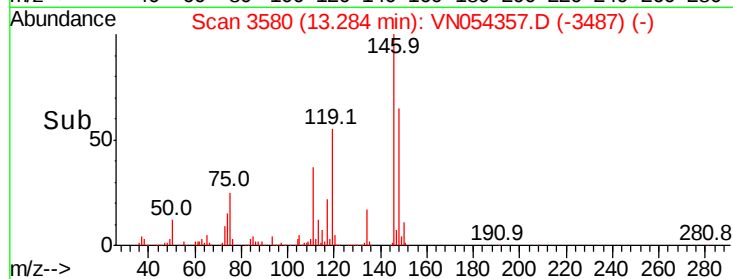
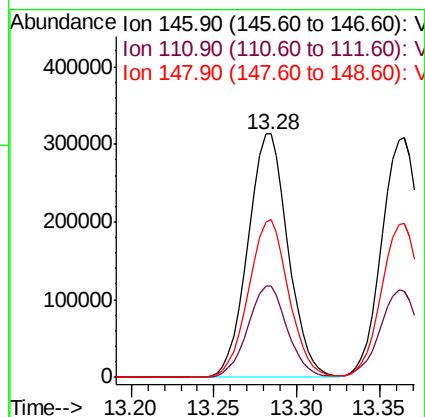
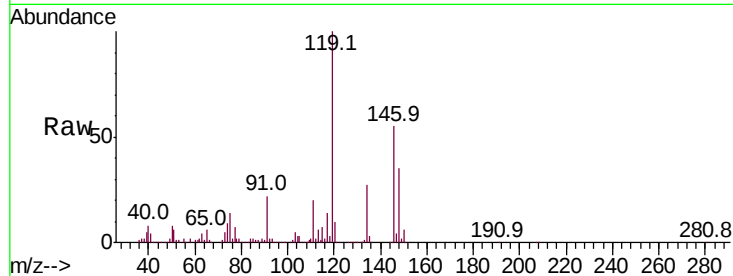
#87
 1,3-Dichlorobenzene
 Concen: 21.068 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054357.D
 Acq: 17 Mar 2019 1:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.9	18.8	56.3
148	64.6	32.2	96.6

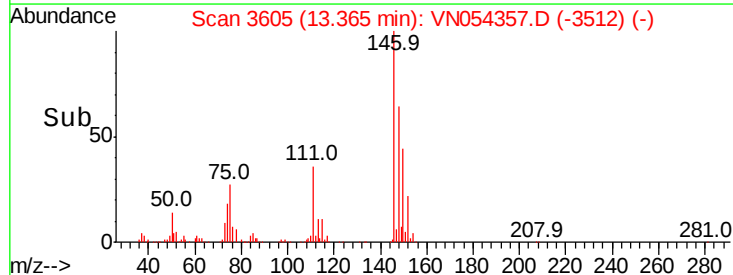
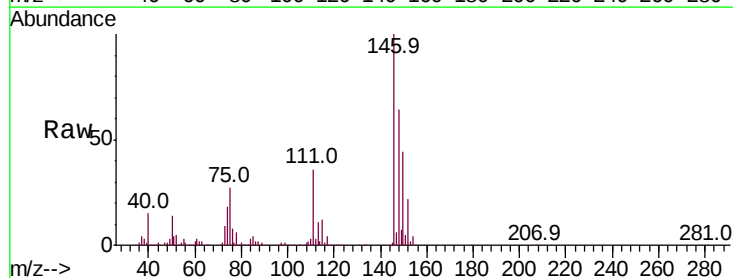
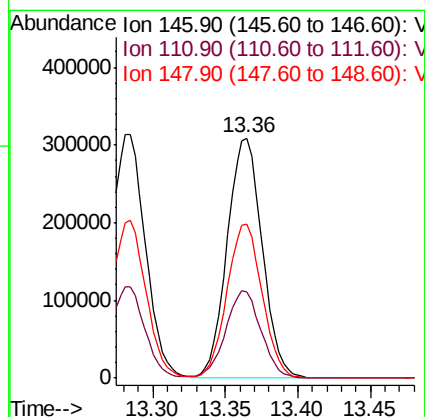
Manual Integrations
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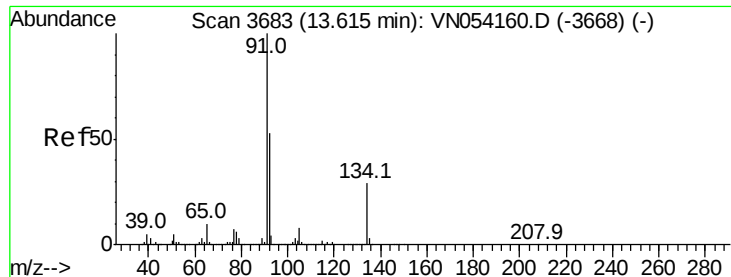
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#88
 1,4-Dichlorobenzene
 Concen: 20.975 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054357.D
 Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.6	18.1	54.1
148	64.5	32.0	96.0





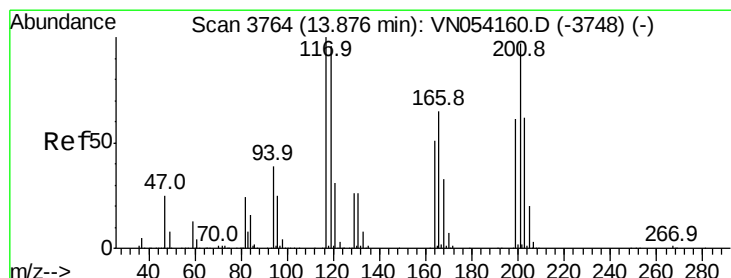
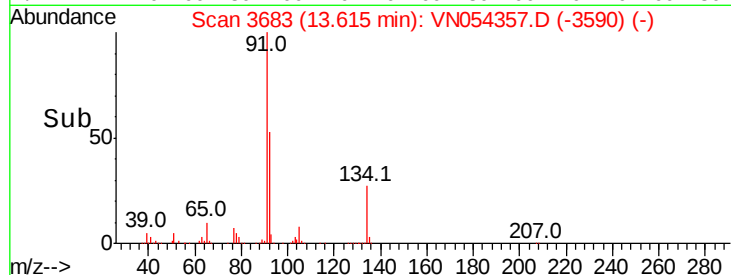
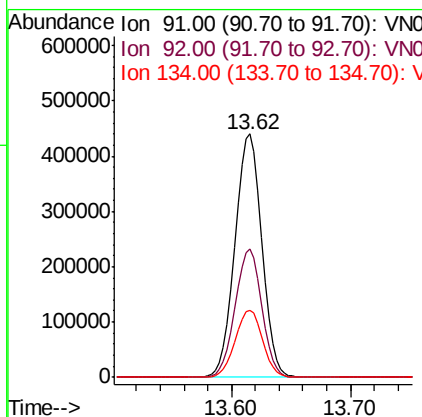
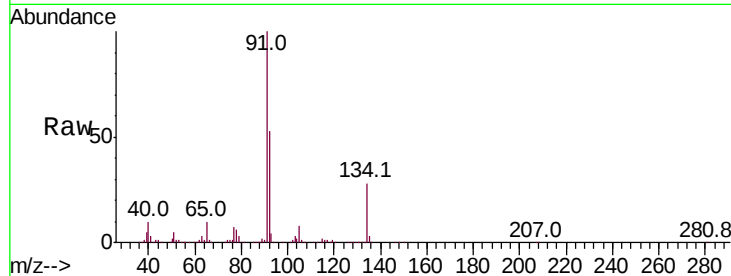
#89
n-Butylbenzene
Concen: 18.500 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.2	78.6
134	28.0	14.3	42.9

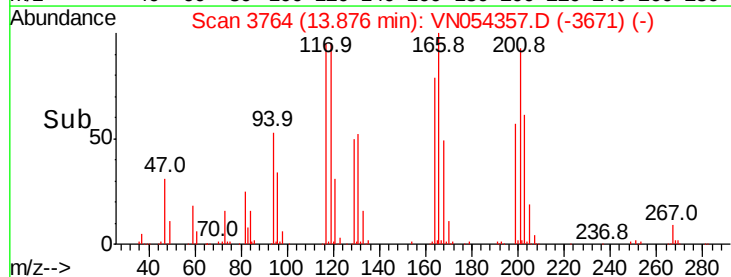
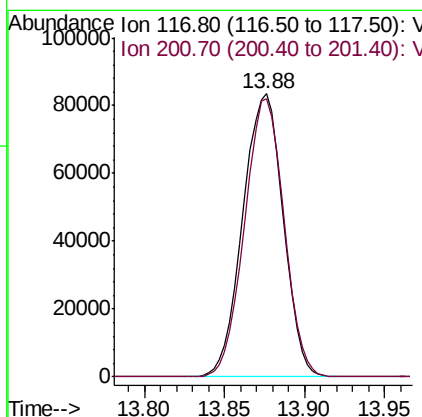
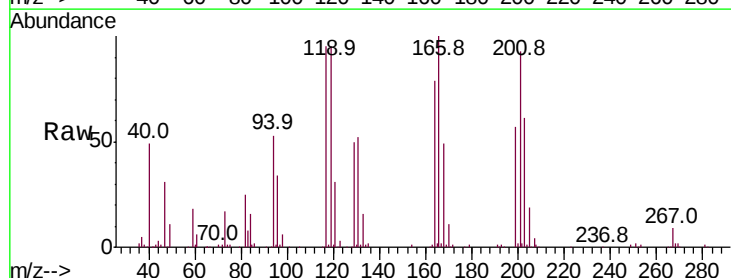
Manual Integrations
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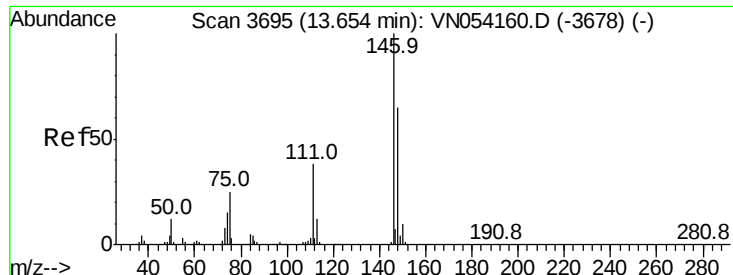
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#90
Hexachloroethane
Concen: 17.758 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Lower	Upper
117	100		
201	95.8	48.1	144.4





#91

1,2-Dichlorobenzene

Concen: 22.140 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Instrument :

MSVOA_N

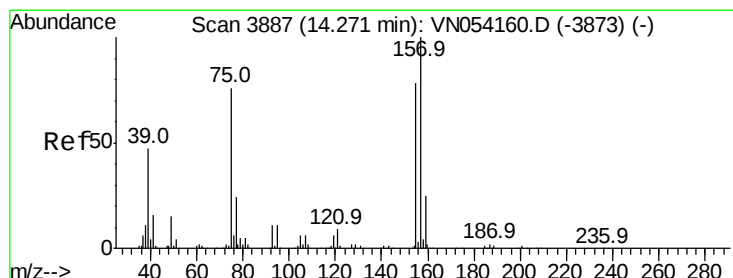
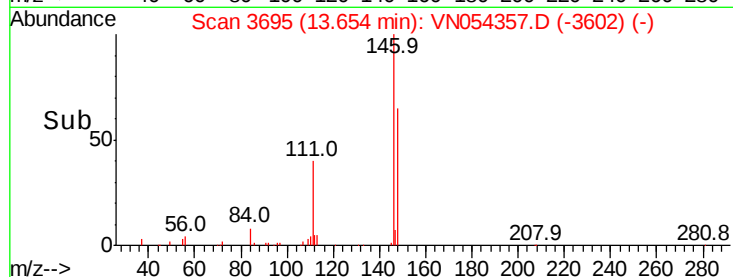
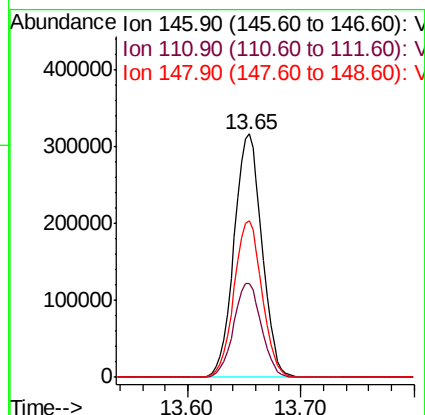
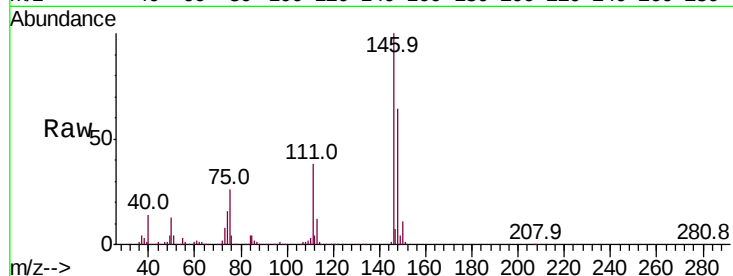
ClientSampleId :

VN0316WBS02

Tot Ion:	146	Resp:	542480
Ion Ratio	Lower	Upper	
146	100		
111	38.5	19.1	57.3
148	64.5	32.4	97.0

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 21.074 ug/l

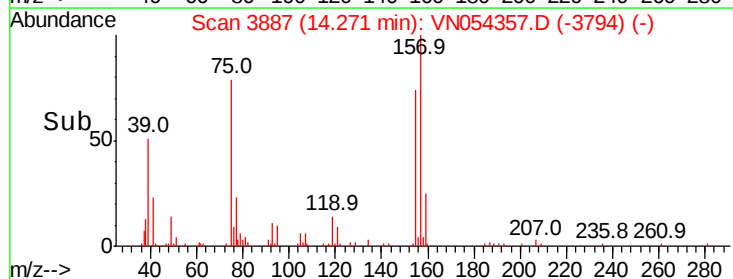
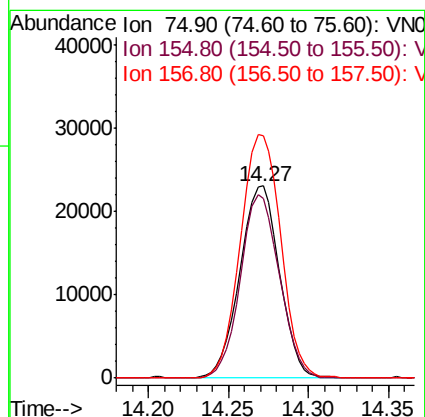
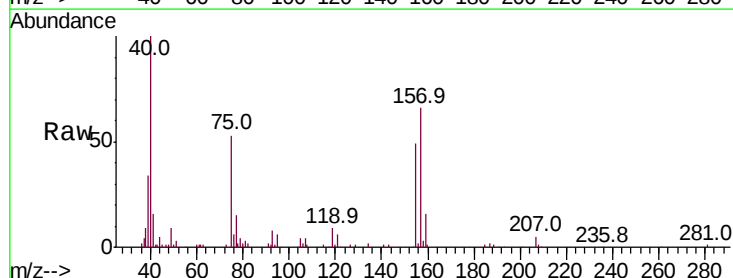
RT: 14.27 min Scan# 3887

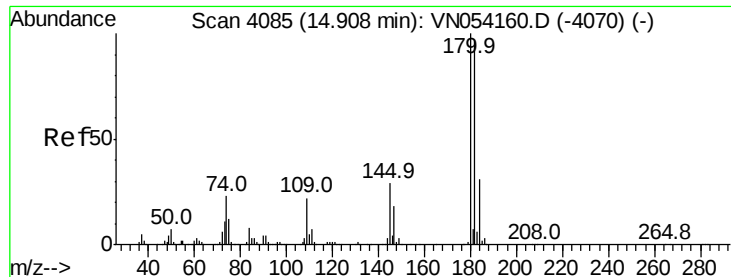
Delta R.T. 0.00 min

Lab File: VN054357.D

Acq: 17 Mar 2019 1:26

Tgt Ion:	75	Resp:	39055
Ion Ratio	Lower	Upper	
75	100		
155	93.5	50.1	150.3
157	128.8	63.1	189.3





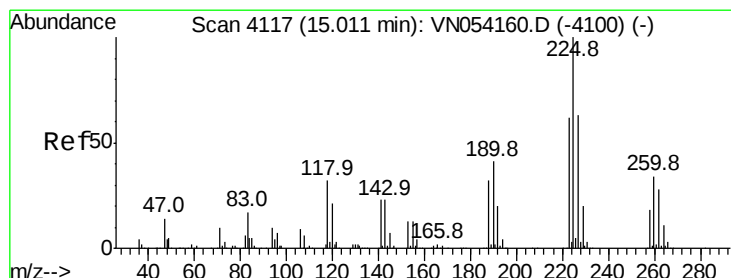
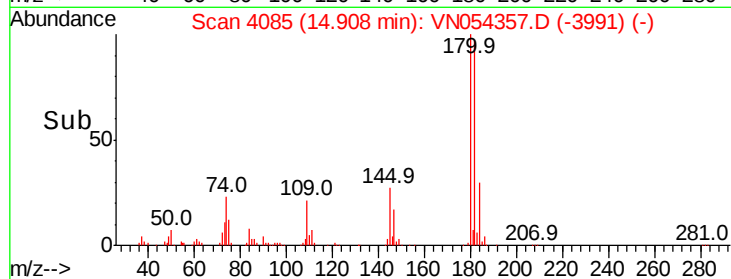
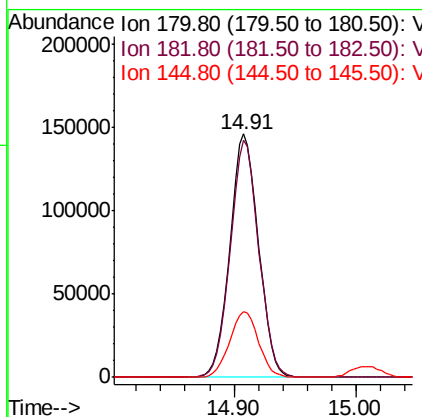
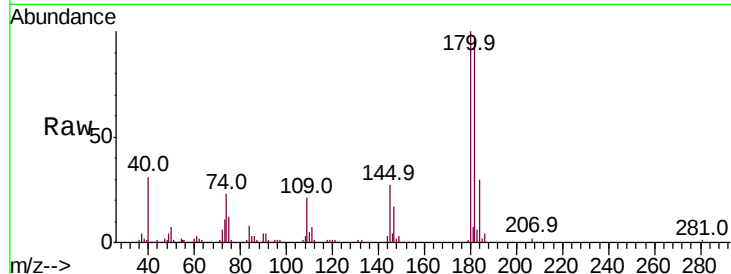
#93
 1,2,4-Trichlorobenzene
 Concen: 17.791 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054357.D
 Acq: 17 Mar 2019 1:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	97.0	48.0	144.2	
145	27.6	14.2	42.8	

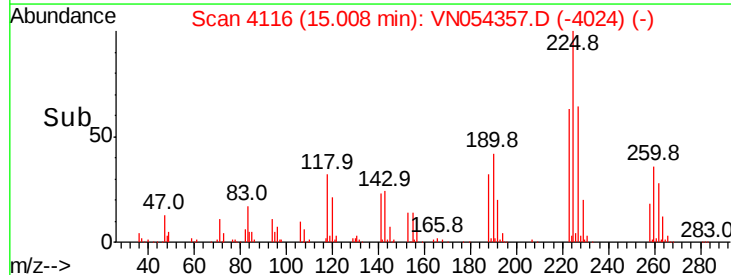
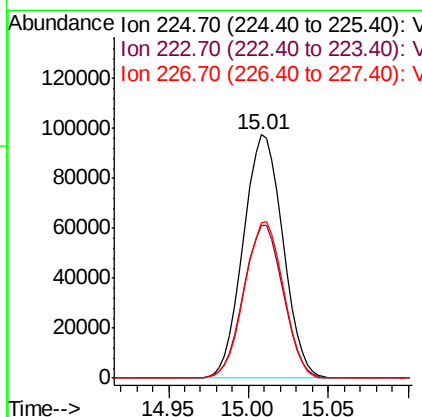
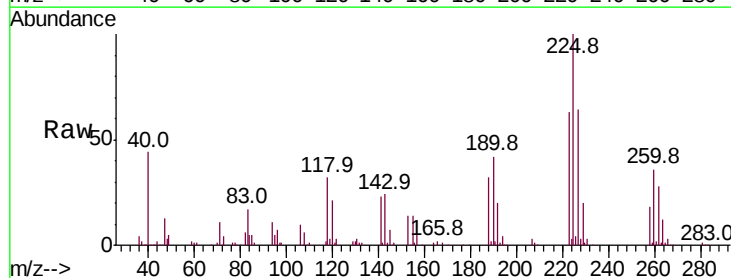
Manual Integrations
 APPROVED

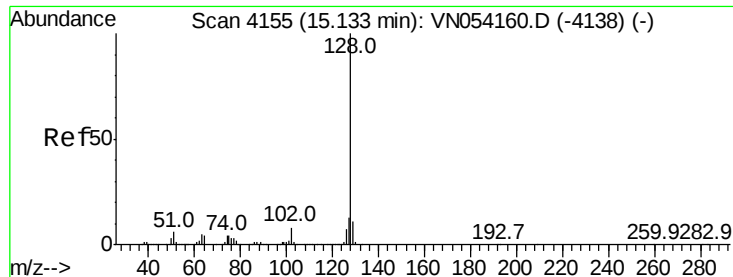
MMDadoda
 3/18/2019 12:05:45 PM



#94
 Hexachlorobutadiene
 Concen: 17.729 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN054357.D
 Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.6	31.1	93.5	
227	63.1	31.9	95.9	





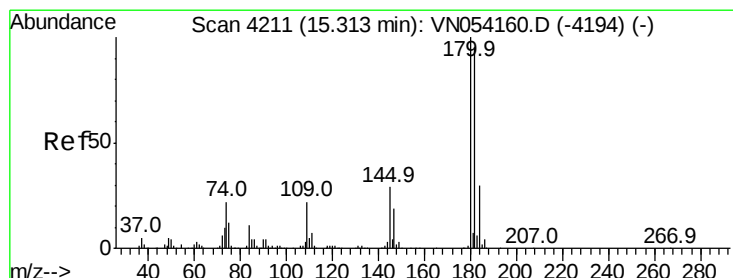
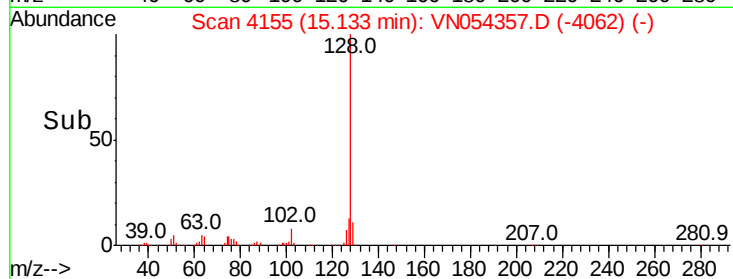
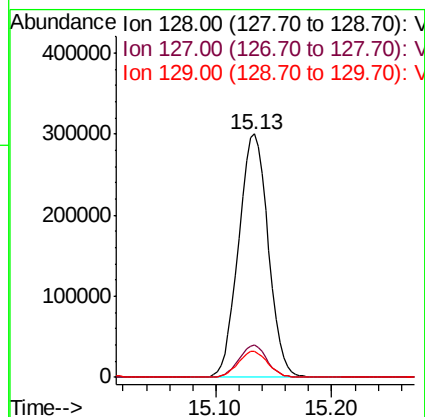
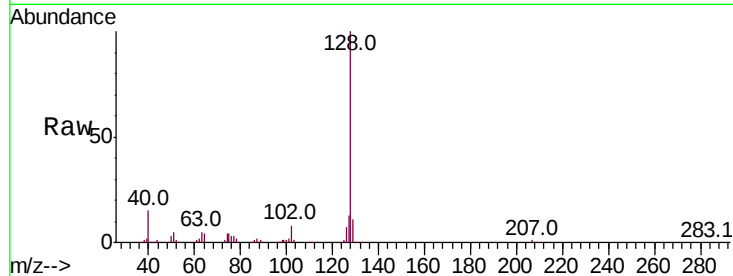
#95
Naphthalene
Concen: 19.541 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBS02

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.6	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/18/2019 12:05:45 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.219 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN054357.D
Acq: 17 Mar 2019 1:26

Tgt Ion	Ratio	Resp Lower	Upper
180	100		
182	97.6	47.5	142.6
145	30.2	14.8	44.3

