

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032119\
 Data File : VN054511.D
 Acq On : 21 Mar 2019 15:15
 Operator : JC/SP
 Sample : VN0321MBS01
 Misc : 5.00µg/10µL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321MBS01

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 4:15:24 PM

Quant Time: Mar 22 10:31:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	534942	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	865876	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	722669	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	311737	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	350429	52.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.34%	
35) Dibromofluoromethane	7.59	113	281419	50.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.90%	
50) Toluene-d8	10.09	98	1035607	49.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.76%	
62) 4-Bromofluorobenzene	12.40	95	344675	48.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.60%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	110520	21.612	ug/l	99
3) Chloromethane	2.06	50	142281	20.449	ug/l	99
4) Vinyl Chloride	2.19	62	134781	19.294	ug/l	99
5) Bromomethane	2.58	94	80323	17.782	ug/l	99
6) Chloroethane	2.71	64	78632	18.766	ug/l	99
7) Trichlorofluoromethane	3.03	101	168841	19.902	ug/l	99
8) Diethyl Ether	3.41	74	61130	18.736	ug/l	71
9) 1,1,2-Trichlorotrifluoroet	3.75	101	90958	18.243	ug/l	95
10) Methyl Iodide	3.95	142	133672	18.226	ug/l	93
11) Tert butyl alcohol	4.82	59	42672	105.929	ug/l	99
12) 1,1-Dichloroethene	3.73	96	96775	18.756	ug/l #	80
13) Acrolein	3.61	56	49202	88.506	ug/l	97
14) Allyl chloride	4.32	41	201376	20.726	ug/l #	91
15) Acrylonitrile	5.00	53	223139	111.231	ug/l	99
16) Acetone	3.82	43	172845	86.402	ug/l #	84
17) Carbon Disulfide	4.04	76	249588	18.053	ug/l	99
18) Methyl Acetate	4.33	43	100143	22.459	ug/l #	90
19) Methyl tert-butyl Ether	5.06	73	327651	21.759	ug/l	97
20) Methylene Chloride	4.54	84	122617	20.793	ug/l #	84
21) trans-1,2-Dichloroethene	5.04	96	115041	21.835	ug/l	89
22) Diisopropyl ether	5.96	45	427715	22.318	ug/l #	95
23) Vinyl Acetate	5.90	43	1500058	110.824	ug/l #	94
24) 1,1-Dichloroethane	5.85	63	226712	21.971	ug/l	98
25) 2-Butanone	6.85	43	281599	109.888	ug/l #	89
26) 2,2-Dichloropropane	6.82	77	143172	19.464	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	132452	21.077	ug/l	89
28) Bromochloromethane	7.19	49	106635	20.994	ug/l #	76
29) Tetrahydrofuran	7.22	42	184001	110.646	ug/l	87
30) Chloroform	7.37	83	217804	21.628	ug/l	98
31) Cyclohexane	7.65	56	224844	21.688	ug/l	87
32) 1,1,1-Trichloroethane	7.57	97	178031	21.429	ug/l	95
36) 1,1-Dichloropropene	7.79	75	161559	19.955	ug/l	96
37) Ethyl Acetate	6.94	43	126338	21.941	ug/l	95
38) Carbon Tetrachloride	7.77	117	151212	19.220	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	188442	20.348	ug/l	91
40) Benzene	8.04	78	476423	20.579	ug/l	98
41) Methacrylonitrile	7.18	41	66767	19.013	ug/l	95
42) 1,2-Dichloroethane	8.13	62	175814	20.853	ug/l	98
43) Isopropyl Acetate	8.17	43	207161	21.303	ug/l #	94
44) Trichloroethene	8.84	130	129985	20.195	ug/l	96
45) 1,2-Dichloropropane	9.12	63	136734	21.995	ug/l	100
46) Dibromomethane	9.21	93	76654	20.669	ug/l	92
47) Bromodichloromethane	9.40	83	159837	20.767	ug/l	97
48) Methyl methacrylate	9.20	41	110041	20.848	ug/l	87
49) 1,4-Dioxane	9.21	88	23024	390.188	ug/l #	78
51) 4-Methyl-2-Pentanone	9.99	43	588308	109.159	ug/l	95
52) Toluene	10.16	92	286363	20.111	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	142681	19.021	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	180369	20.438	ug/l	92
55) 1,1,2-Trichloroethane	10.56	97	106499	20.807	ug/l	97
56) Ethyl methacrylate	10.43	69	147003	21.398	ug/l #	86
57) 1,3-Dichloropropane	10.71	76	188800	21.220	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	280725	99.236	ug/l	91
59) 2-Hexanone	10.75	43	367080	104.274	ug/l	92
60) Dibromochloromethane	10.90	129	106051	19.472	ug/l	98
61) 1,2-Dibromoethane	11.01	107	105909	20.930	ug/l	98
64) Tetrachloroethene	10.63	164	124884	20.834	ug/l	96
65) Chlorobenzene	11.43	112	304773	20.735	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	112604	21.344	ug/l	99
67) Ethyl Benzene	11.51	91	548181	21.114	ug/l	97
68) m/p-Xylenes	11.62	106	399883	40.662	ug/l	96
69) o-Xylene	11.95	106	202584	21.093	ug/l	98
70) Styrene	11.96	104	324743	20.821	ug/l	97
71) Bromoform	12.13	173	62354	18.603	ug/l #	98
73) Isopropylbenzene	12.25	105	539857	21.491	ug/l	98
74) N-amyl acetate	12.07	43	163167	22.590	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.51	83	126774	22.108	ug/l #	96
76) 1,2,3-Trichloropropane	12.55	75	113250m	22.894	ug/l	
77) Bromobenzene	12.53	156	171869	27.586	ug/l	80
78) n-propylbenzene	12.59	91	568469	20.869	ug/l	99
79) 2-Chlorotoluene	12.67	91	339748	20.001	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	443442	21.539	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.30	75	23446	18.475	ug/l #	69
82) 4-Chlorotoluene	12.77	91	342576	20.806	ug/l	96
83) tert-Butylbenzene	12.99	119	378001	21.093	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	424998	21.038	ug/l	97
85) sec-Butylbenzene	13.17	105	474950	21.260	ug/l	98
86) p-Isopropyltoluene	13.29	119	429636	21.496	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	204526	19.810	ug/l	97
88) 1,4-Dichlorobenzene	13.36	146	201790	20.088	ug/l	98
89) n-Butylbenzene	13.62	91	340475	21.786	ug/l	99
90) Hexachloroethane	13.87	117	59176	19.074	ug/l	91
91) 1,2-Dichlorobenzene	13.65	146	207456	20.745	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	18006	21.408	ug/l	85

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QLast Update : Fri Mar 22 02:09:07 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	108809	21.827	ug/l	99
94) Hexachlorobutadiene	15.01	225	63131	21.107	ug/l	98
95) Naphthalene	15.13	128	255363	22.965	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	108890	21.947	ug/l	98

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

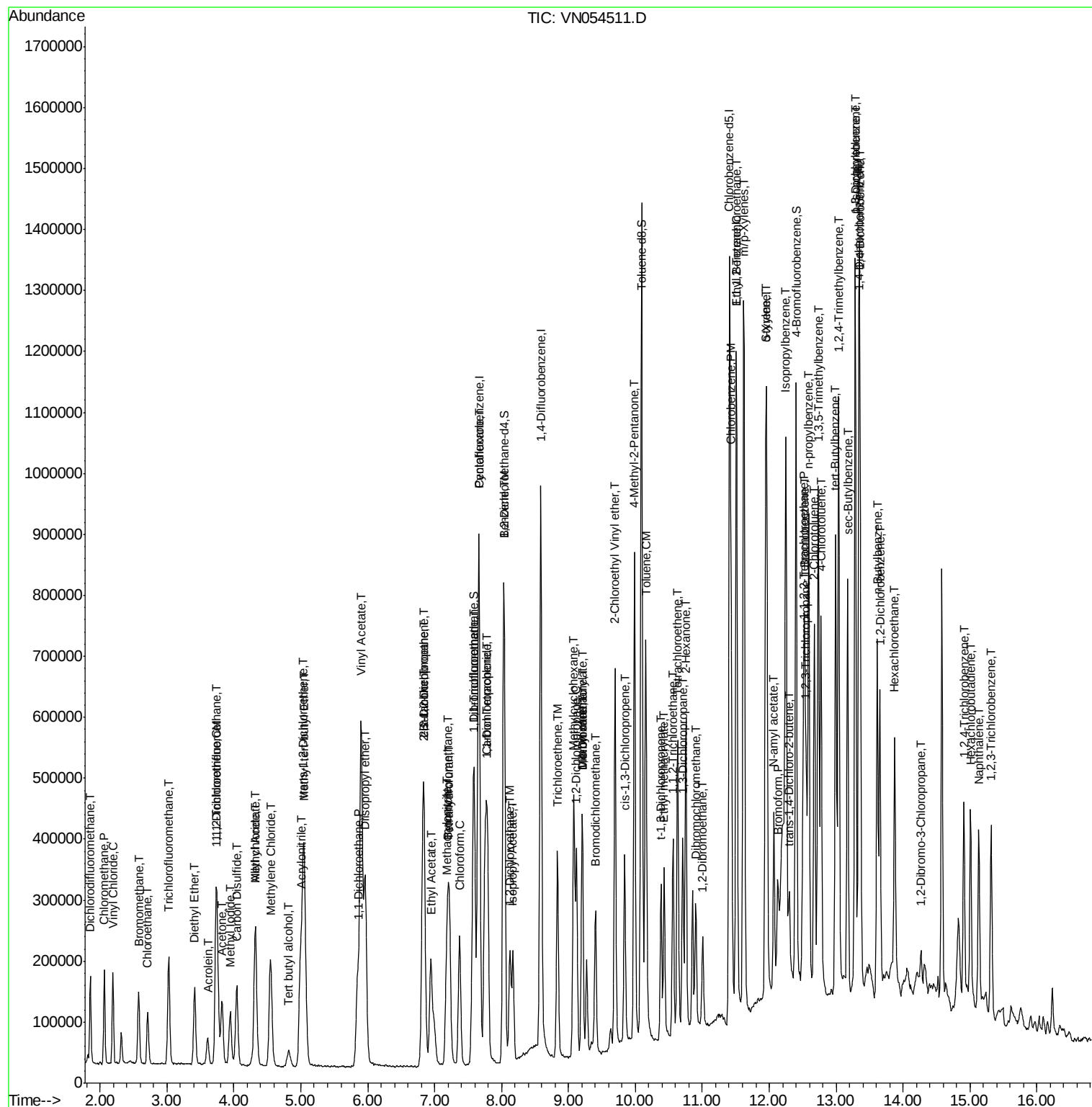
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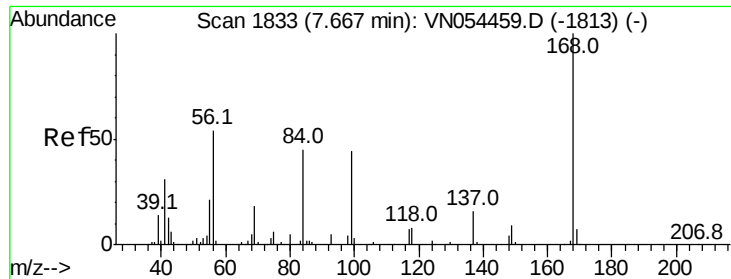
Instrument :
 MSVOA_N
 Client Sample ID :
 VN0321MBS01

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBS01

Tot Ion:168 Resp: 534942

Ion Ratio Lower Upper

168 100

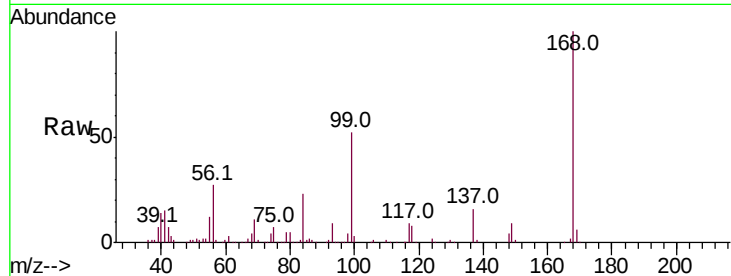
99 51.8 37.1 55.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

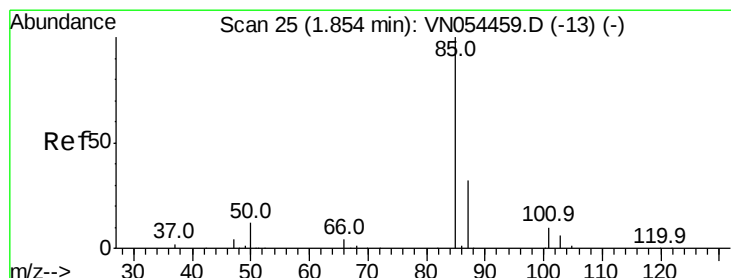
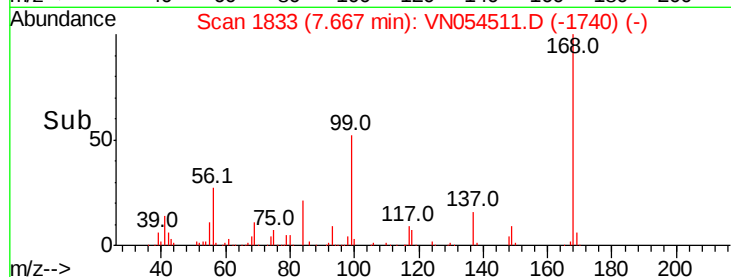
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 21.612 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN054511.D

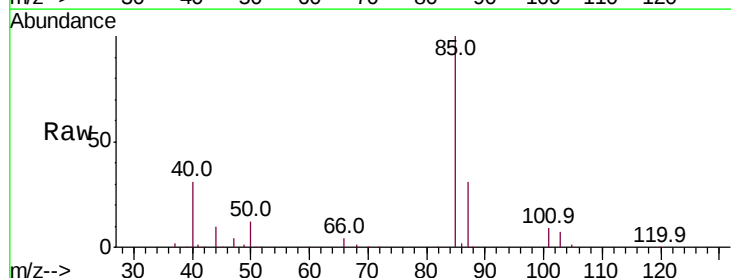
Acq: 21 Mar 2019 15:15

Tgt Ion: 85 Resp: 110520

Ion Ratio Lower Upper

85 100

87 31.3 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

80000

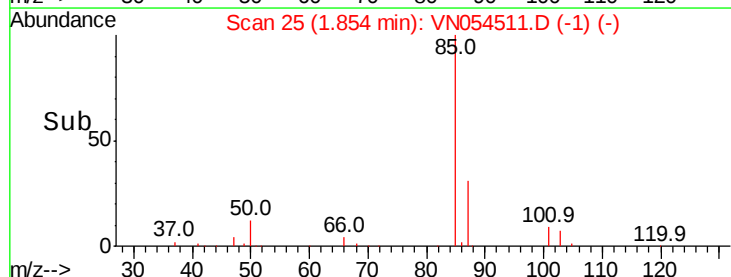
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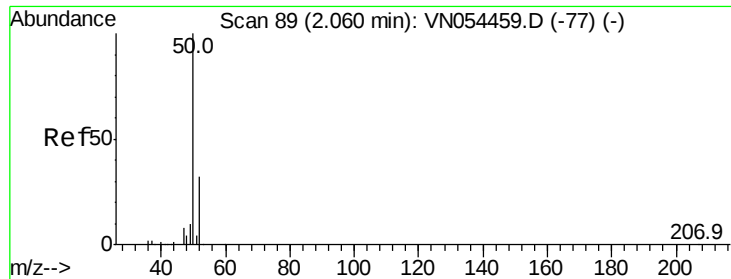
40000

20000

0

Time--> 1.80 1.85 1.90





#3

Chloromethane

Concen: 20.449 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBS01

Tot Ion: 50 Resp: 142281

Ion Ratio Lower Upper

50 100

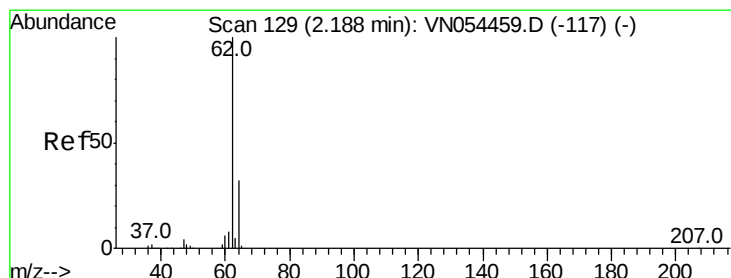
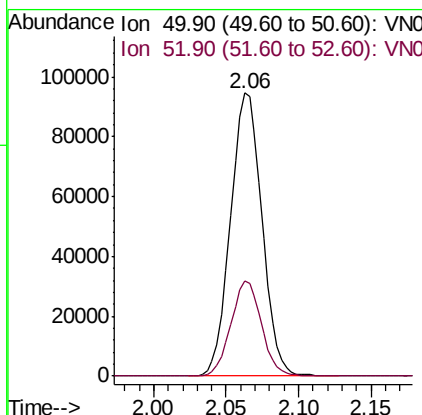
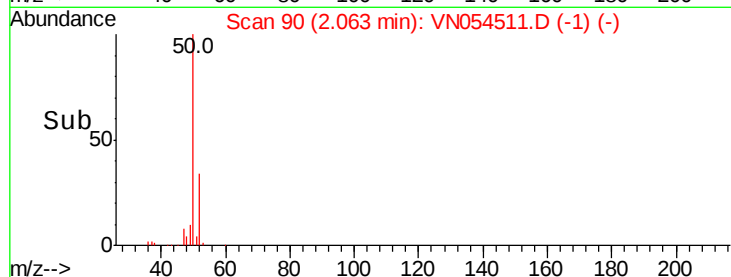
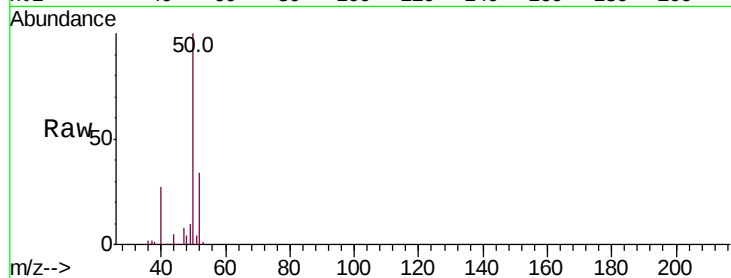
52 33.6 26.4 39.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.294 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054511.D

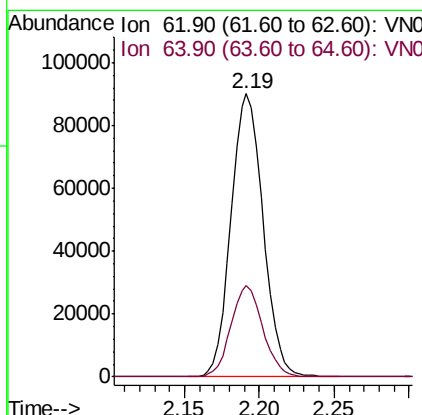
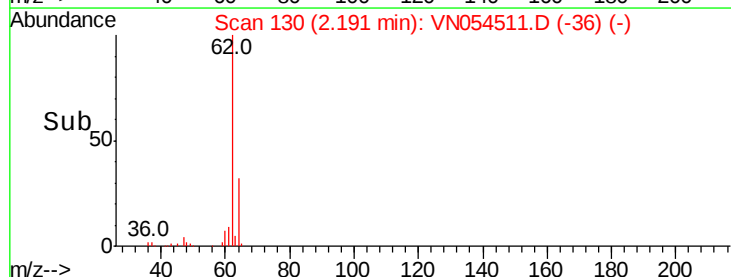
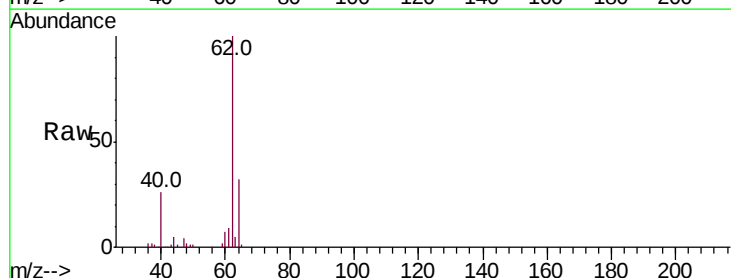
Acq: 21 Mar 2019 15:15

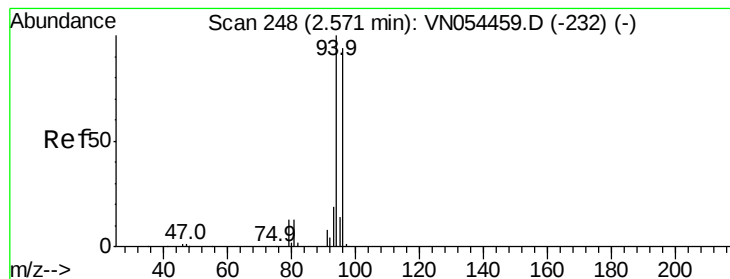
Tgt Ion: 62 Resp: 134781

Ion Ratio Lower Upper

62 100

64 32.3 25.5 38.3





#5

Bromomethane

Concen: 17.782 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBS01

Tot Ion: 94 Resp: 80323

Ion Ratio Lower Upper

94 100

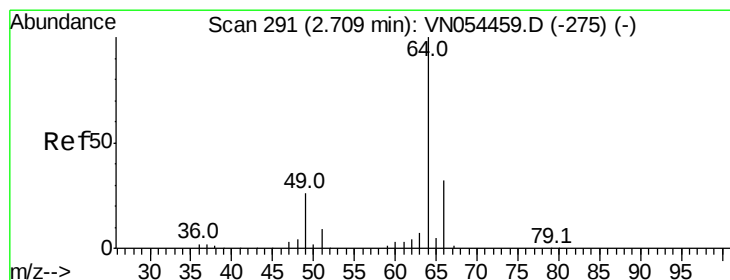
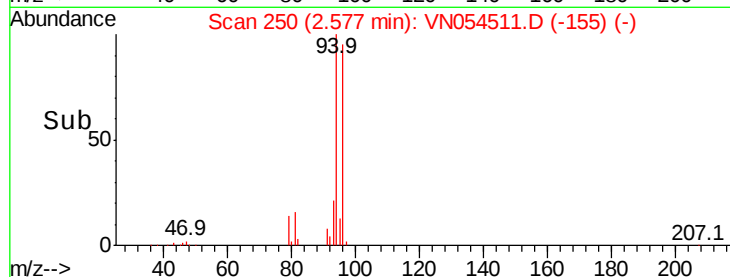
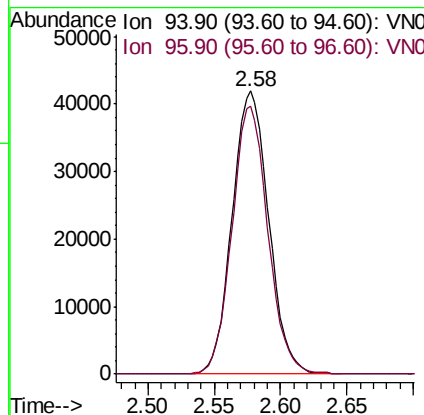
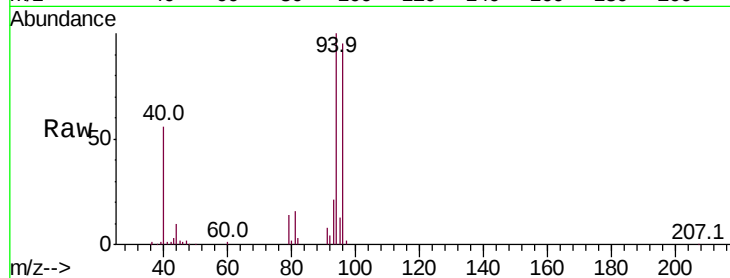
96 94.9 77.0 115.4

Manual Integrations

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#6

Chloroethane

Concen: 18.766 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN054511.D

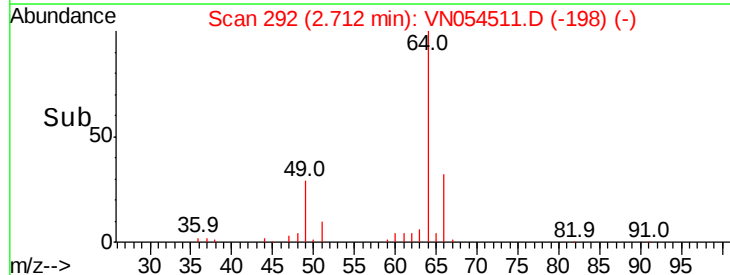
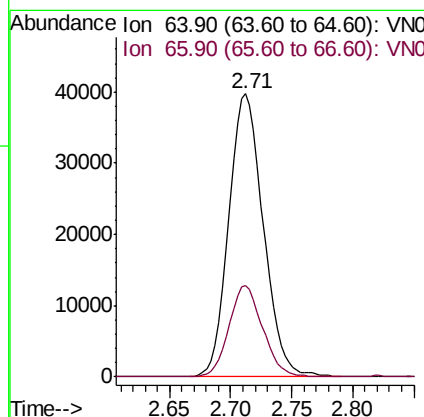
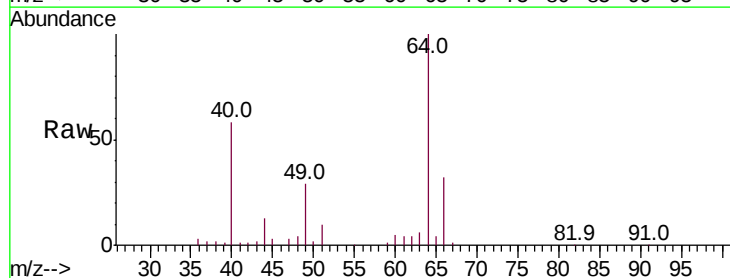
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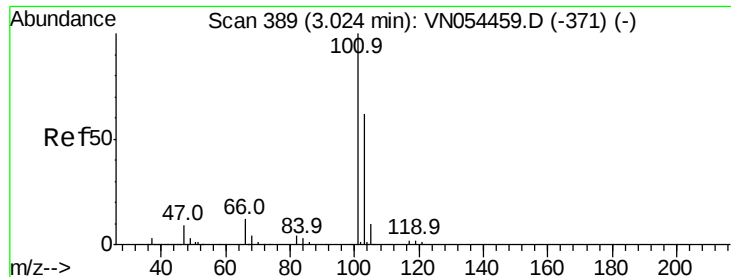
Tgt Ion: 64 Resp: 78632

Ion Ratio Lower Upper

64 100

66 32.4 25.7 38.5





#7

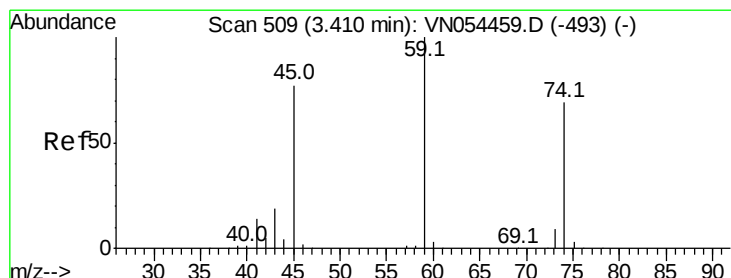
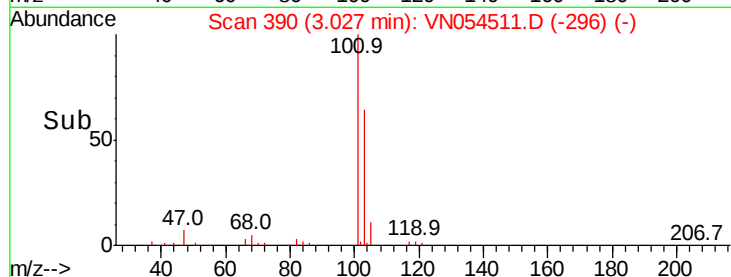
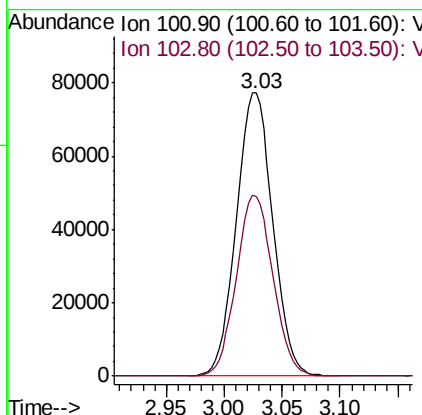
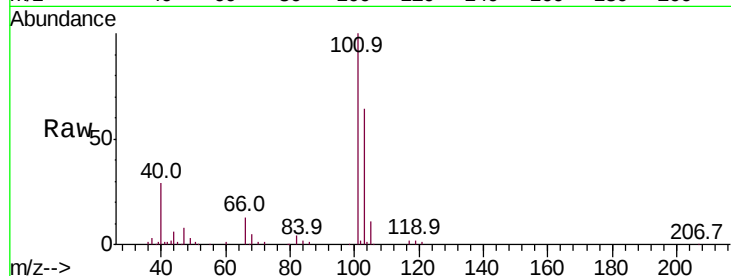
Trichlorofluoromethane
Concen: 19.902 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Instrument :
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ClientSampleId :
VN0321MBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.6	51.4	77.2

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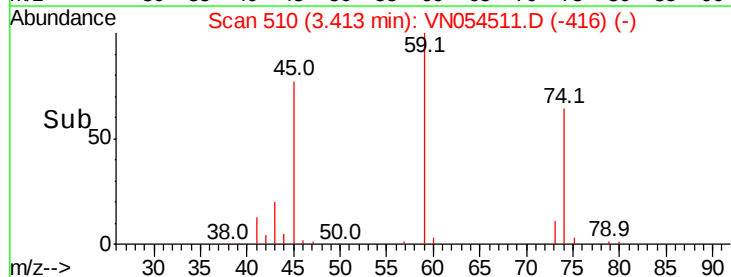
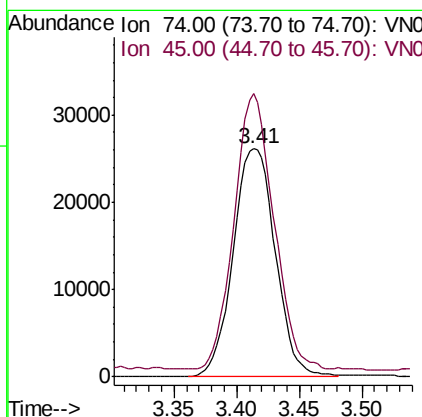
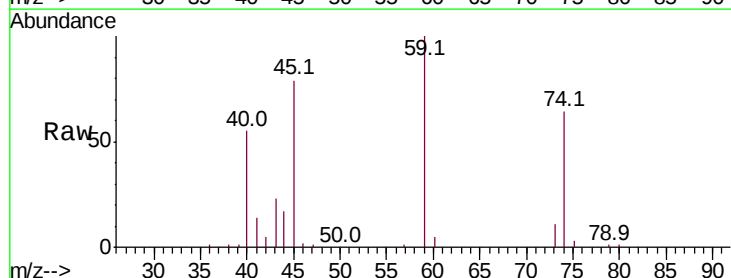
MMDadoda
3/22/2019 4:15:24 PM

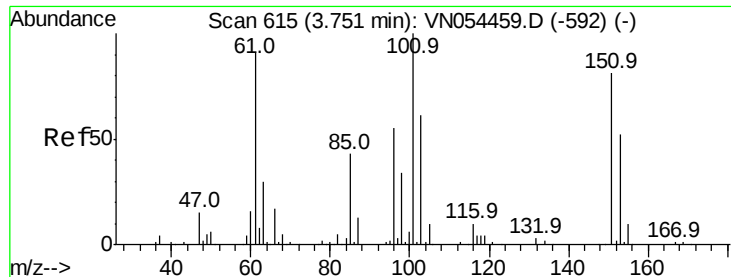


#8

Diethyl Ether
Concen: 18.736 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
74	100		
45	113.2	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.243 ug/l

RT: 3.75 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

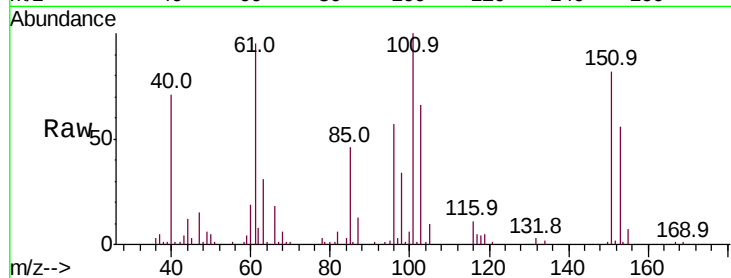
ClientSampleId :

VN0321MBS01

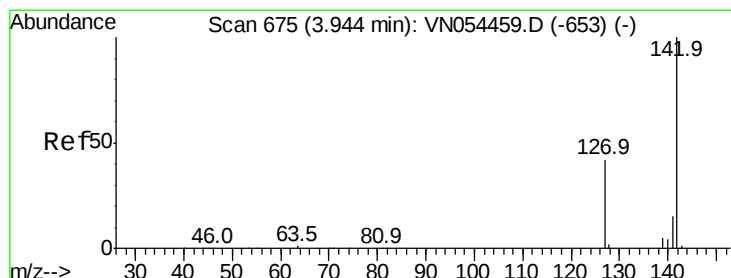
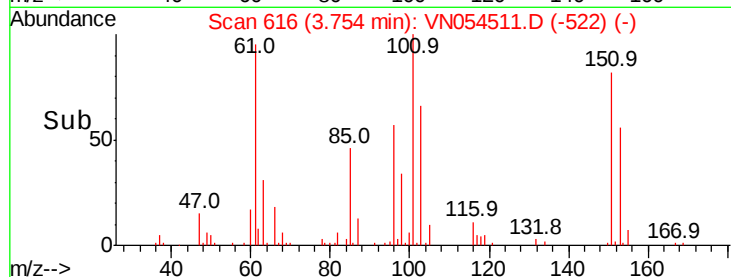
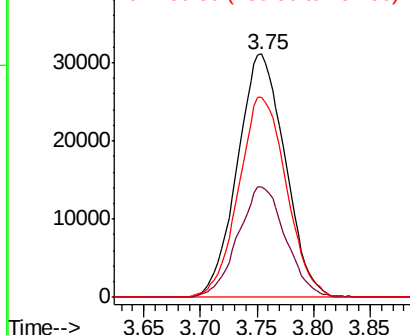
Tot Ion:	101	Resp:	90958
Ion Ratio	Lower	Upper	
101	100		
85	45.6	32.4	48.6
151	82.7	68.2	102.2

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



#10

Methyl Iodide

Concen: 18.226 ug/l

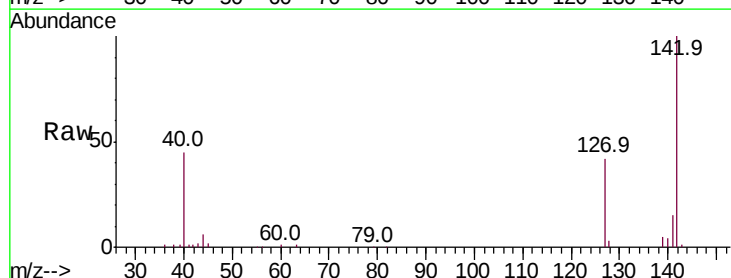
RT: 3.95 min Scan# 676

Delta R.T. 0.00 min

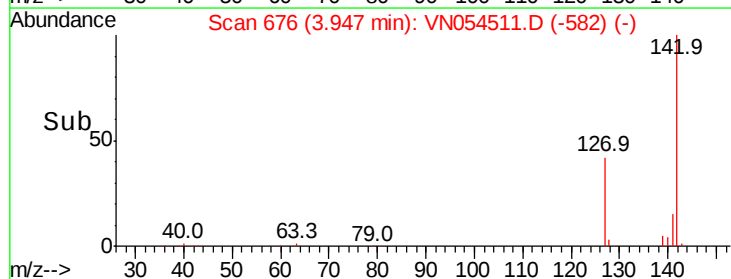
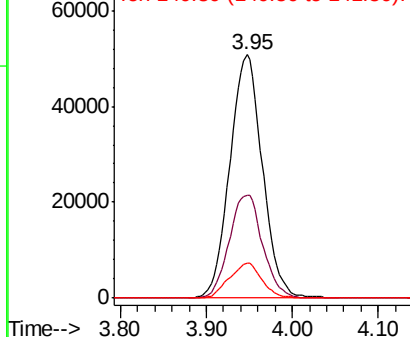
Lab File: VN054511.D

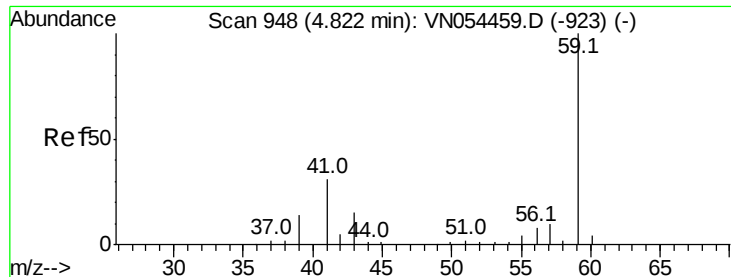
Acq: 21 Mar 2019 15:15

Tgt Ion:	142	Resp:	133672
Ion Ratio	Lower	Upper	
142	100		
127	43.6	30.3	45.5
141	14.4	11.2	16.8



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





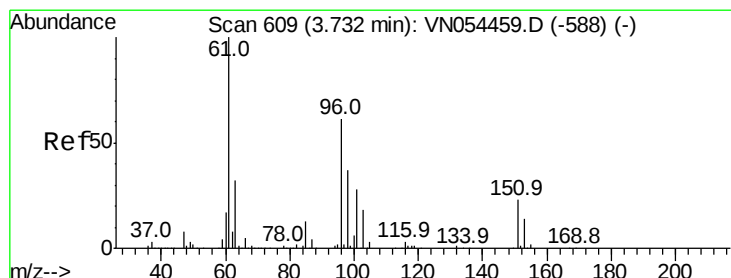
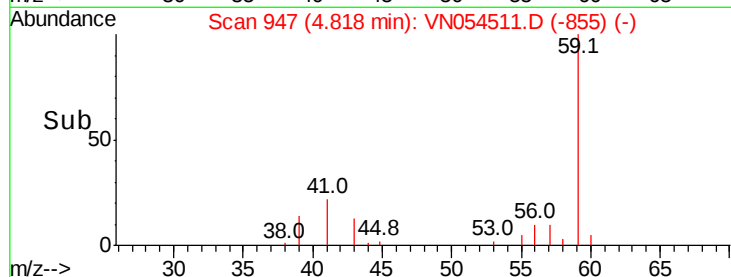
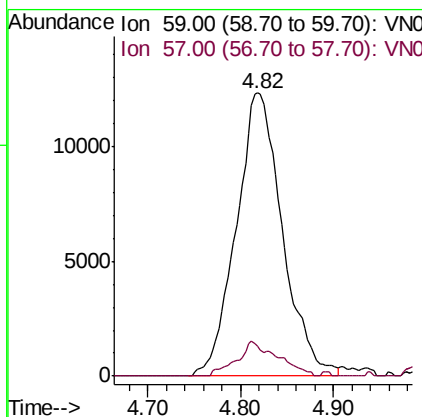
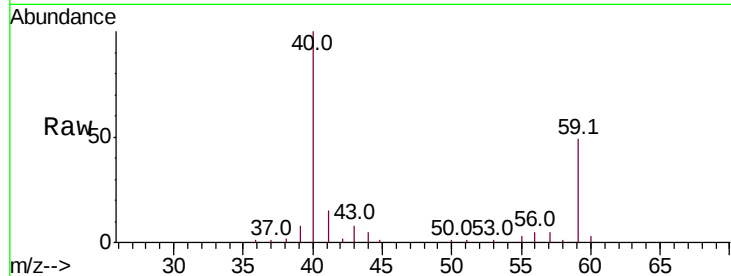
#11
Tert butyl alcohol
Concen: 105.929 ug/l
RT: 4.82 min Scan# 947
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampleId :
VN0321MBS01

Tot Ion: 59 Resp: 42672
Ion Ratio Lower Upper
59 100
57 10.9 9.0 13.6

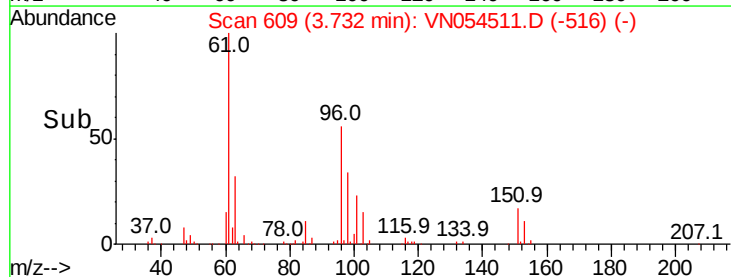
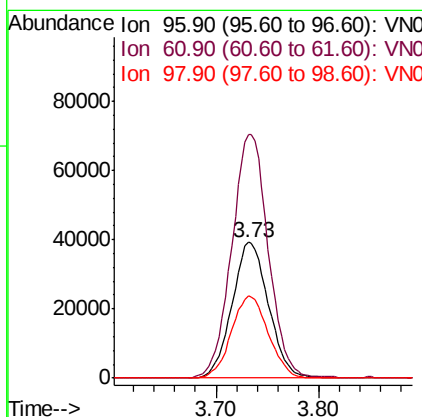
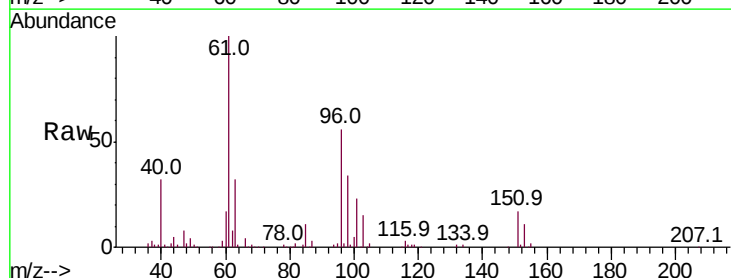
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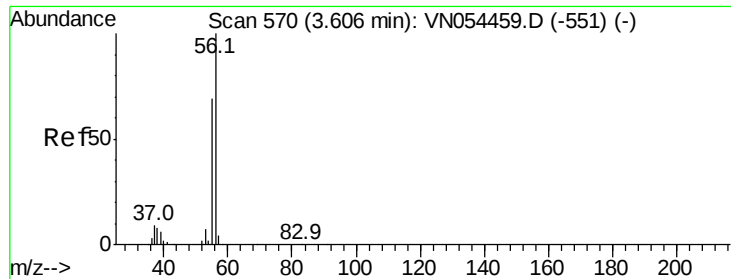
MMDadoda
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#12
1,1-Dichloroethene
Concen: 18.756 ug/l
RT: 3.73 min Scan# 609
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Tgt Ion: 96 Resp: 96775
Ion Ratio Lower Upper
96 100
61 179.1 116.5 174.7#
98 60.7 51.0 76.4





#13

Acrolein

Concen: 88.506 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBS01

Tot Ion: 56 Resp: 49202

Ion Ratio Lower Upper

56 100

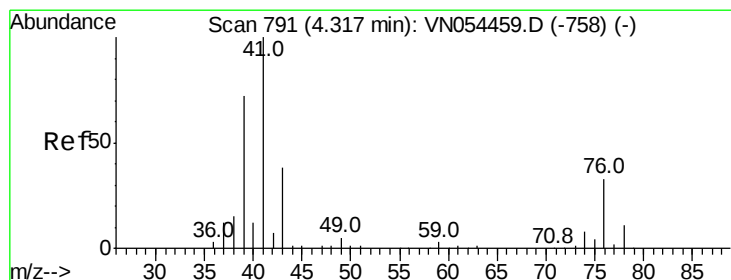
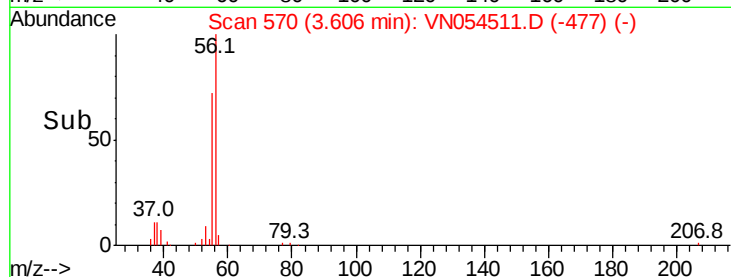
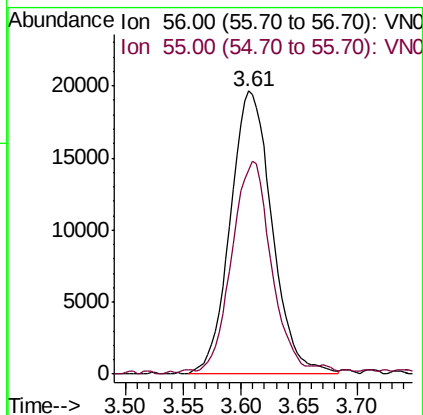
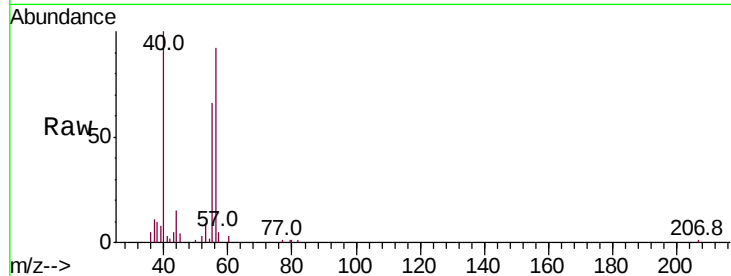
55 68.7 56.7 85.1

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#14

Allyl chloride

Concen: 20.726 ug/l

RT: 4.32 min Scan# 792

Delta R.T. 0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

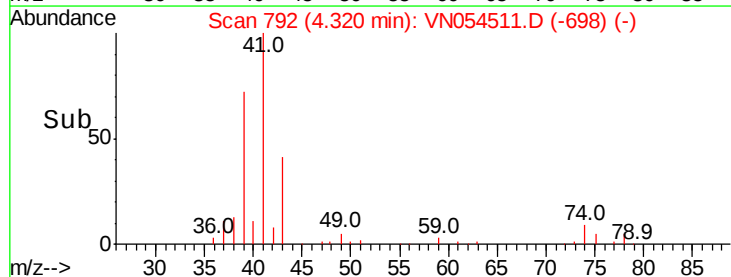
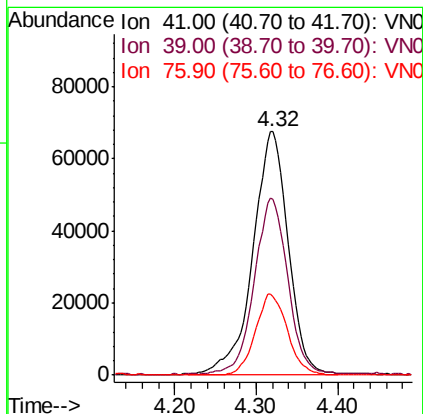
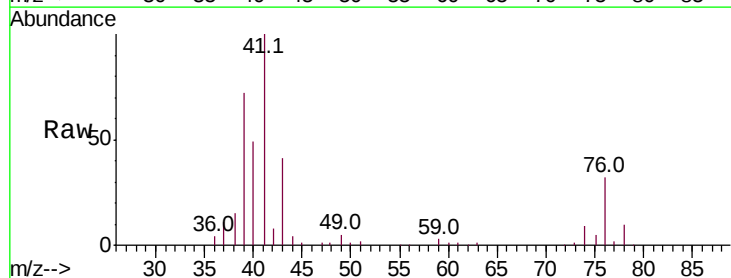
Tgt Ion: 41 Resp: 201376

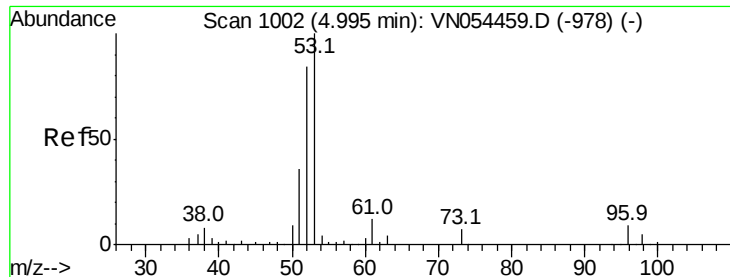
Ion Ratio Lower Upper

41 100

39 68.7 58.2 87.4

76 30.3 31.7 47.5#





#15

Acrylonitrile

Concen: 111.231 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

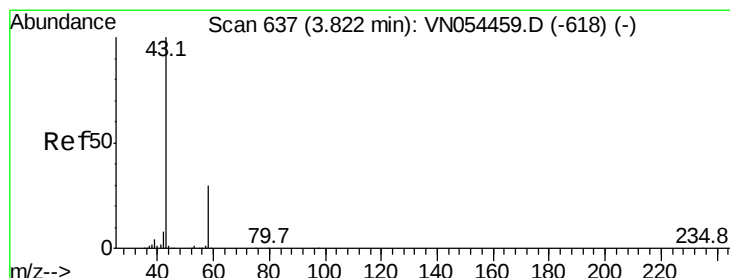
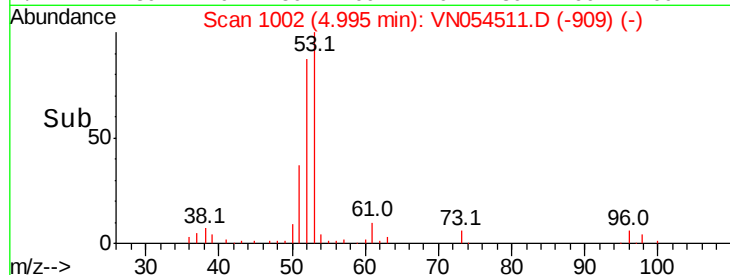
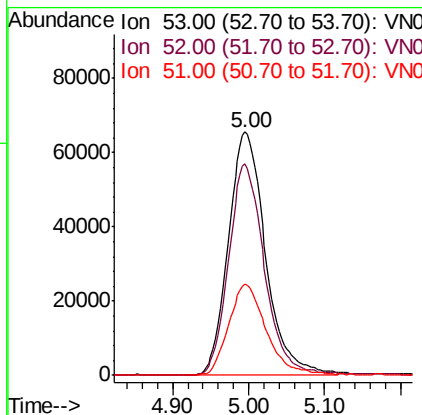
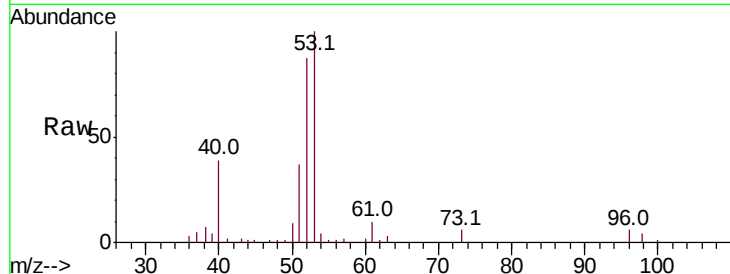
ClientSampleId :

VN0321MBS01

Tot Ion:	53	Resp:	223139
Ion	Ratio	Lower	Upper
53	100		
52	83.9	66.4	99.6
51	37.9	29.6	44.4

Manual Integrations
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#16

Acetone

Concen: 86.402 ug/l

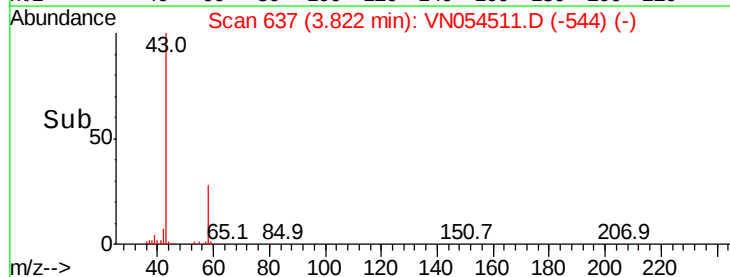
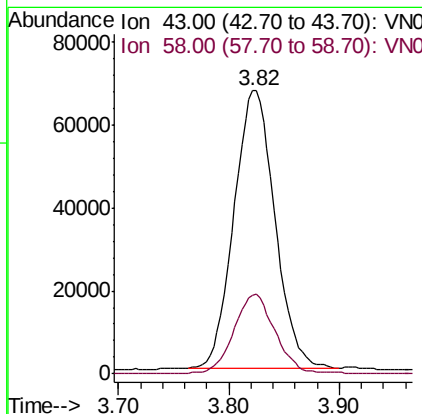
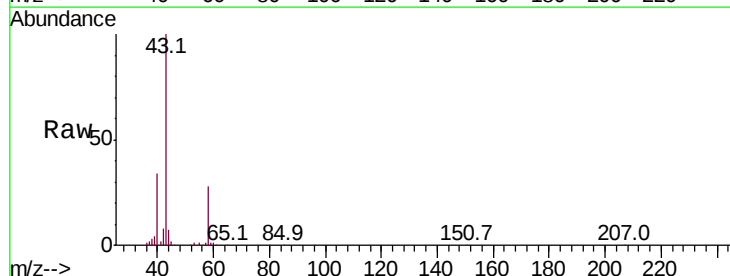
RT: 3.82 min Scan# 637

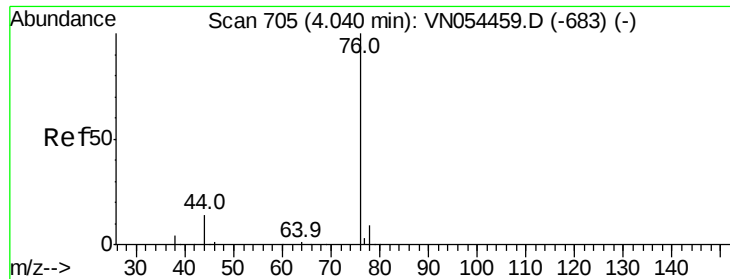
Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Tgt Ion:	43	Resp:	172845
Ion	Ratio	Lower	Upper
43	100		
58	28.1	29.9	44.9#





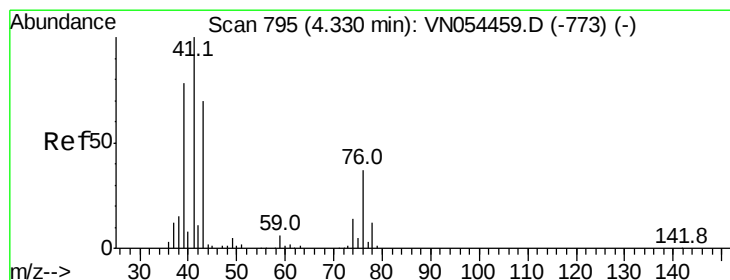
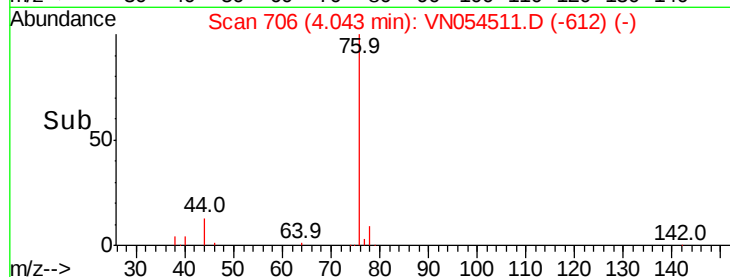
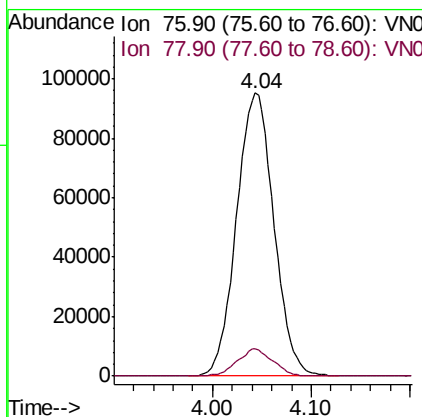
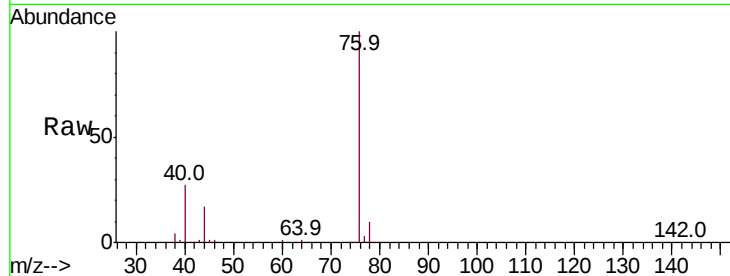
#17
Carbon Disulfide
Concen: 18.053 ug/l
RT: 4.04 min Scan# 706
Delta R.T. 0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampled :
VN0321MBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.5	11.3

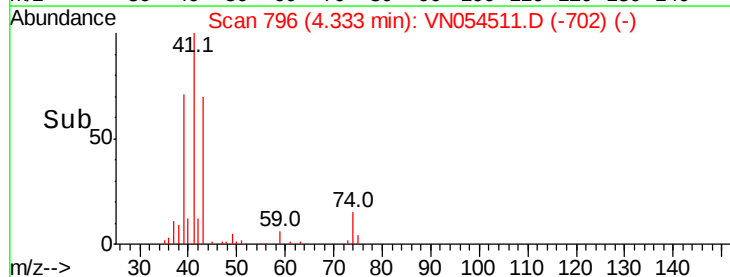
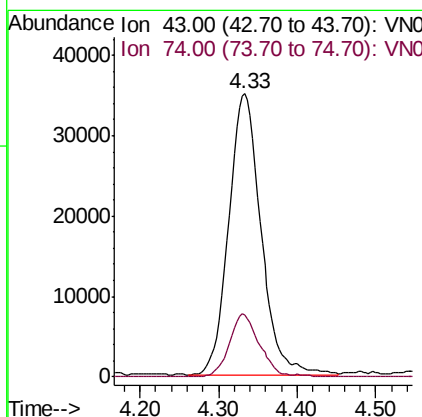
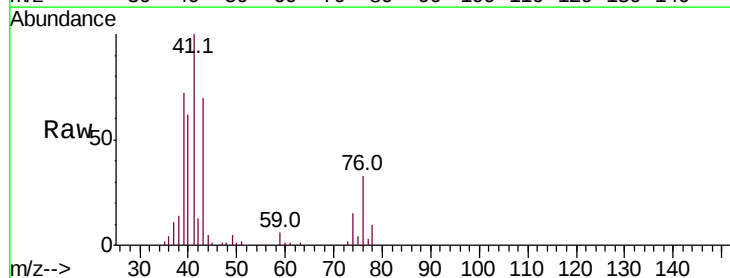
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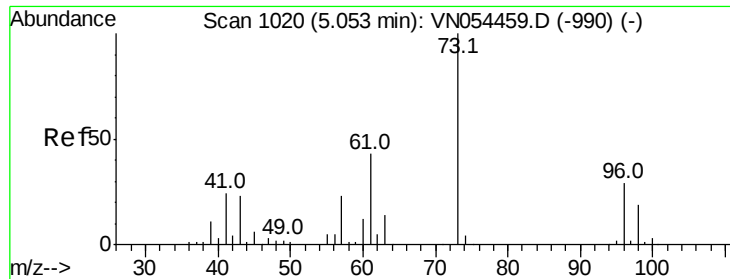
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#18
Methyl Acetate
Concen: 22.459 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.7	20.8	31.2#





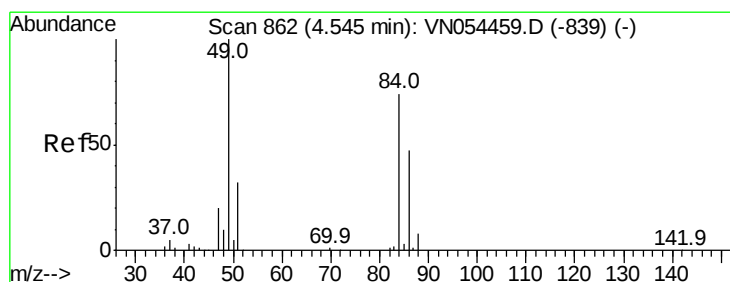
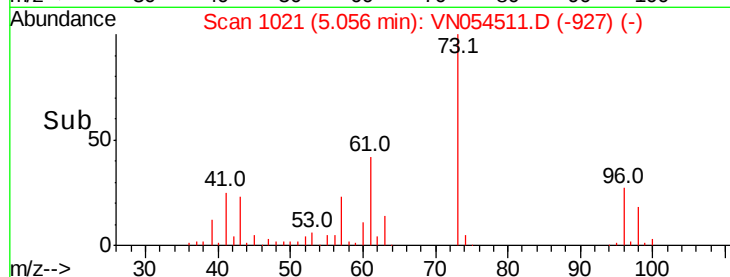
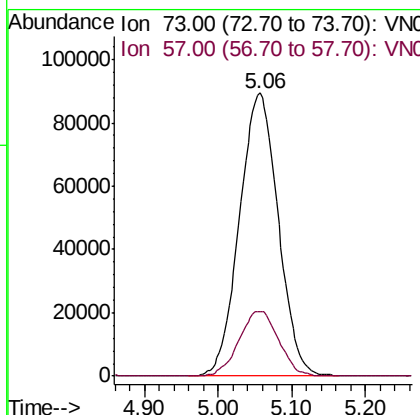
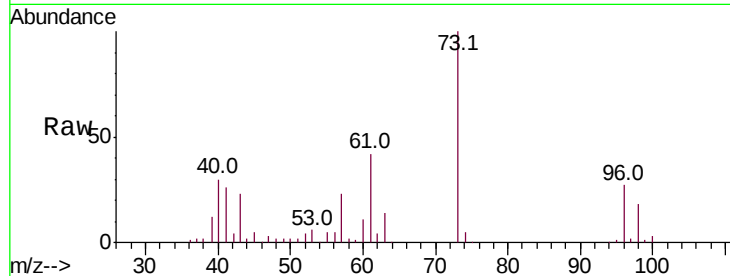
#19
Methvl tert-butvl Ether
Concen: 21.759 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampleId :
VN0321MBS01

Tot Ion: 73 Resp: 327651
Ion Ratio Lower Upper
73 100
57 22.6 16.8 25.2

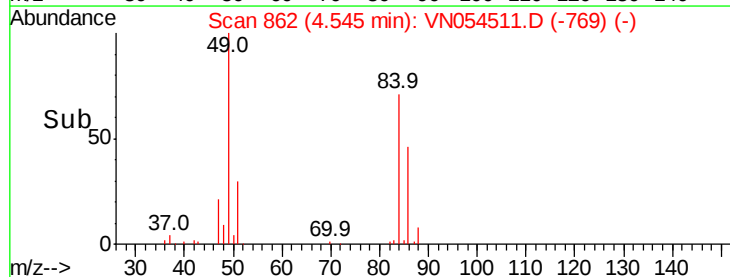
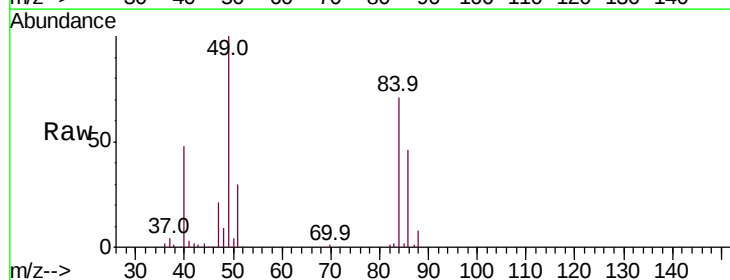
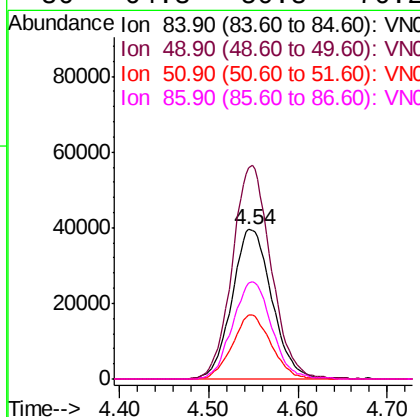
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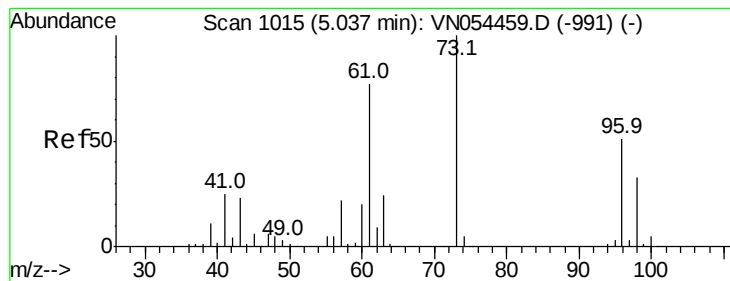
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#20
Methylene Chloride
Concen: 20.793 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Tgt Ion: 84 Resp: 122617
Ion Ratio Lower Upper
84 100
49 140.4 89.7 134.5#
51 42.6 28.2 42.4#
86 64.3 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 21.835 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBS01

Tot Ion: 96 Resp: 115041

Ion Ratio Lower Upper

96 100

61 145.9 102.8 154.2

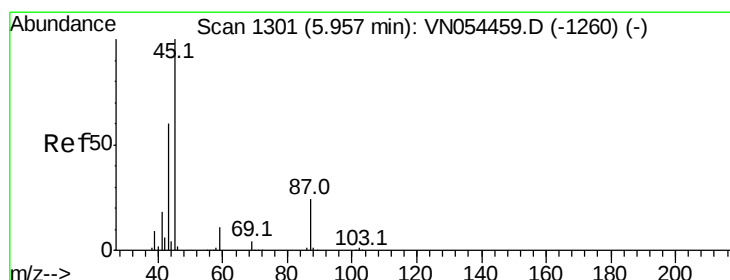
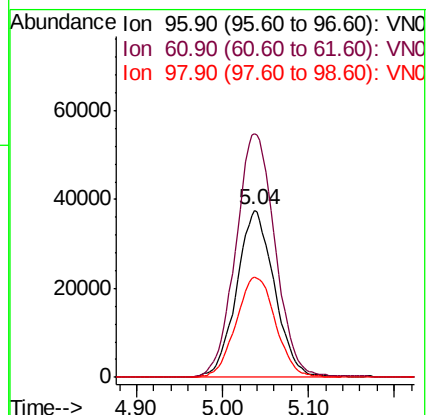
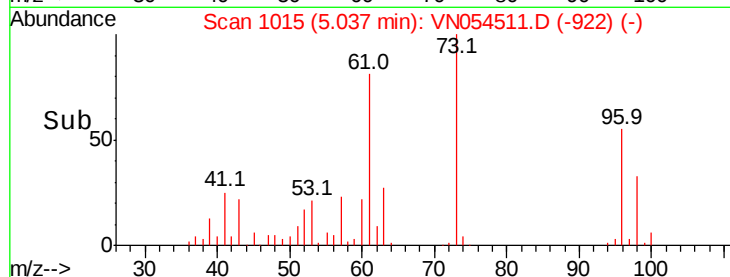
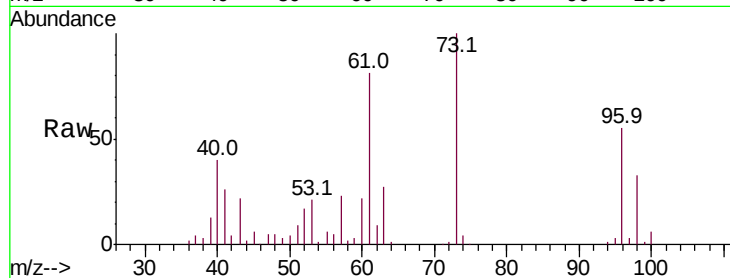
98 60.2 50.0 75.0

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#22

Diisopropyl ether

Concen: 22.318 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Tgt Ion: 45 Resp: 427715

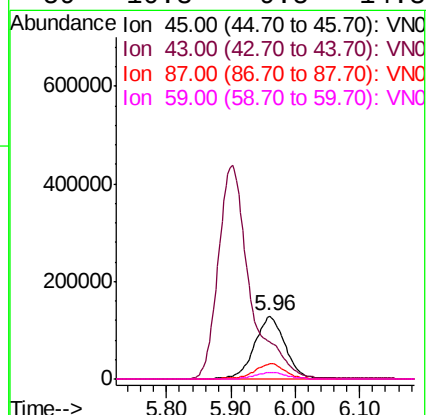
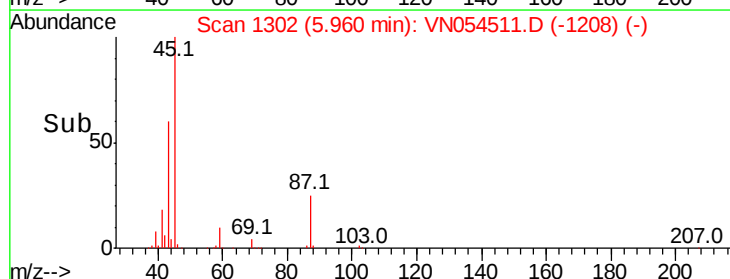
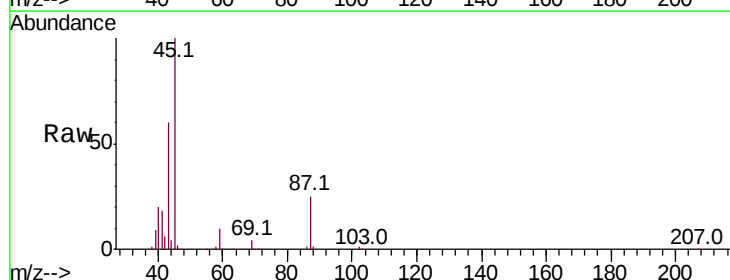
Ion Ratio Lower Upper

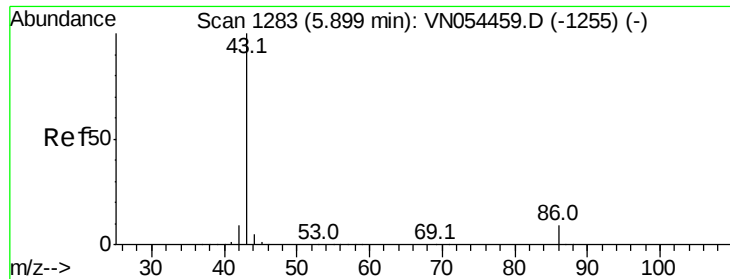
45 100

43 59.0 48.2 72.2

87 24.3 24.9 37.3#

59 10.3 9.5 14.3





#23

Vinyl Acetate

Concen: 110.824 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleID :

VN0321MBS01

Tot Ion: 43 Resp: 1500058

Ion Ratio Lower Upper

43 100

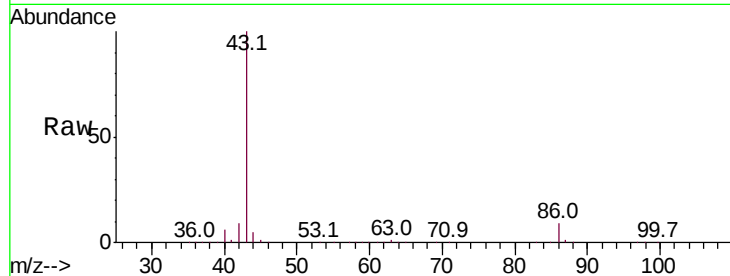
86 9.1 9.1 13.7#

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

500000

400000

300000

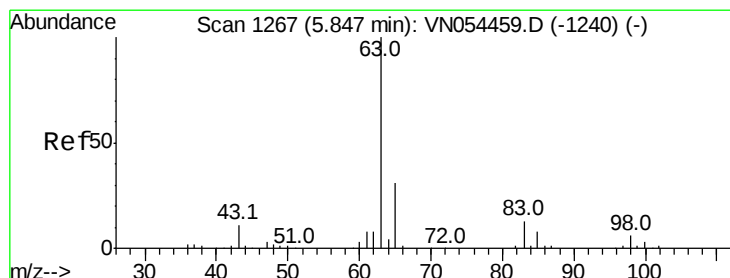
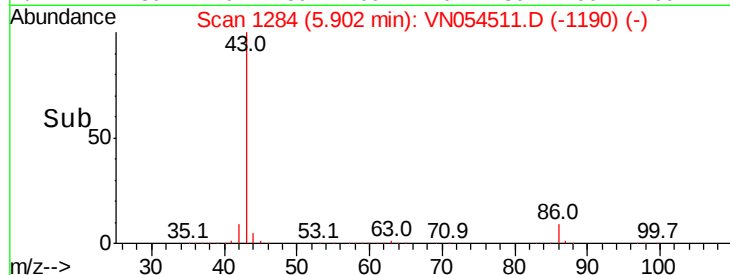
200000

100000

0

5.80 5.90 6.00 6.10

Time-->



#24

1,1-Dichloroethane

Concen: 21.971 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

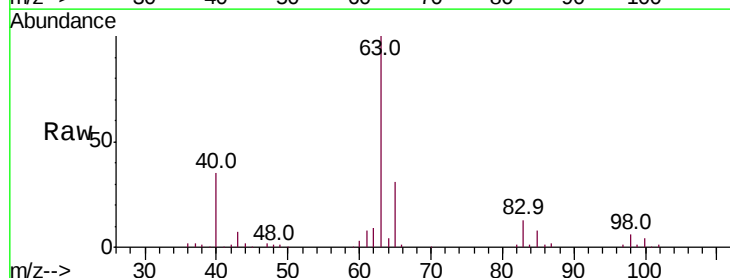
Tgt Ion: 63 Resp: 226712

Ion Ratio Lower Upper

63 100

98 6.2 3.5 10.5

100 3.9 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

100000

80000

60000

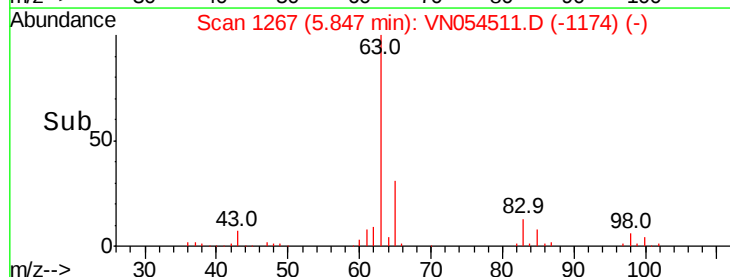
40000

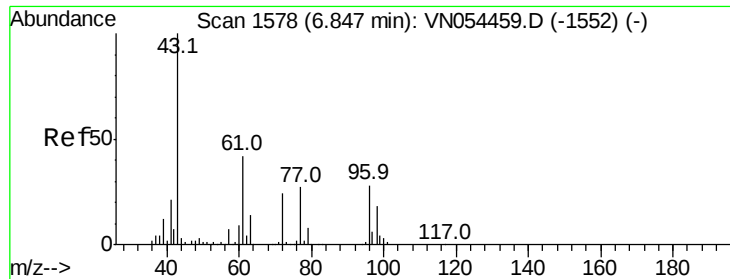
20000

0

5.70 5.80 5.90

Time-->





#25

2-Butanone

Concen: 109.888 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampled :

VN0321MBS01

Tot Ion: 43 Resp: 281599

Ion Ratio Lower Upper

43 100

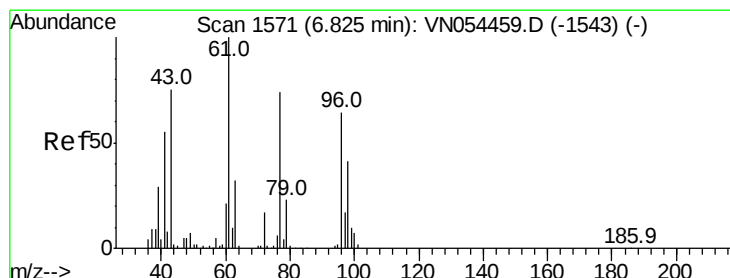
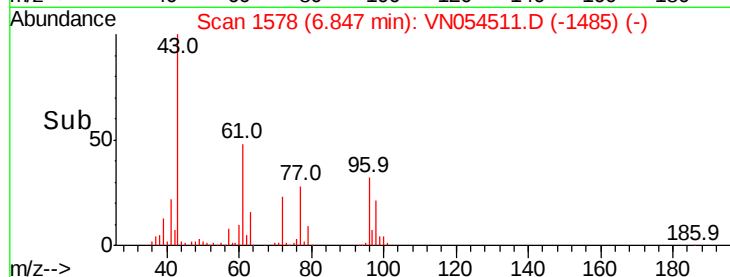
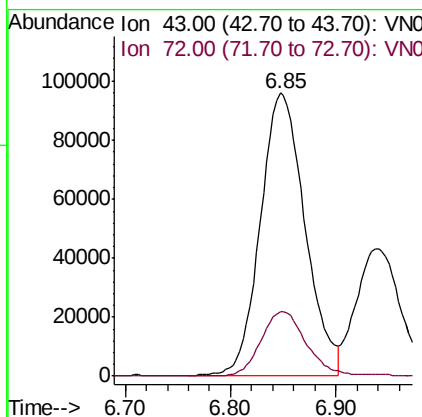
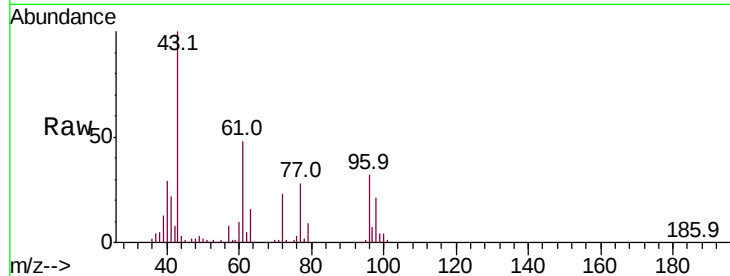
72 22.7 23.0 34.6#

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 19.464 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054511.D

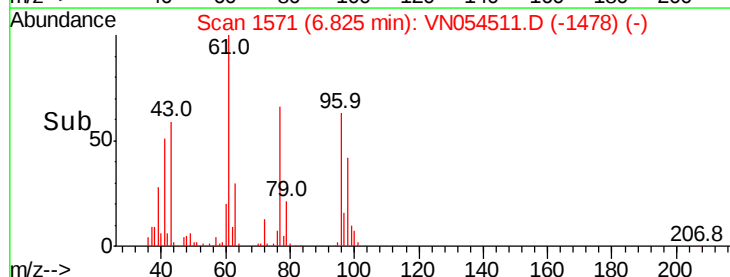
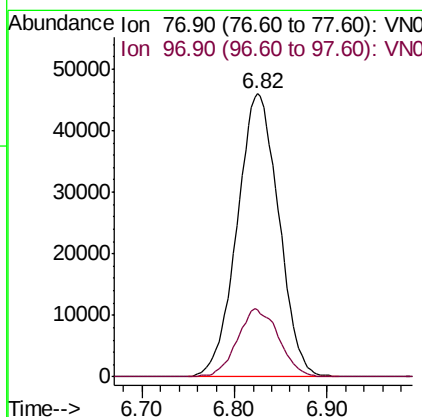
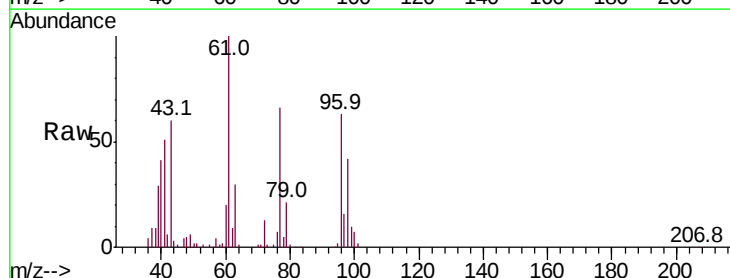
Acq: 21 Mar 2019 15:15

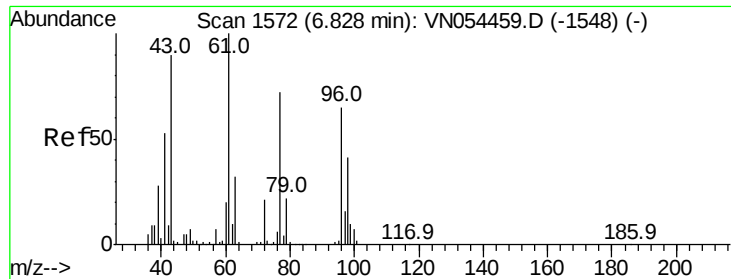
Tgt Ion: 77 Resp: 143172

Ion Ratio Lower Upper

77 100

97 24.0 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 21.077 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054511.D

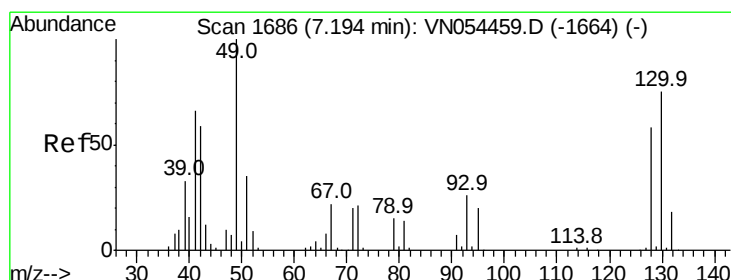
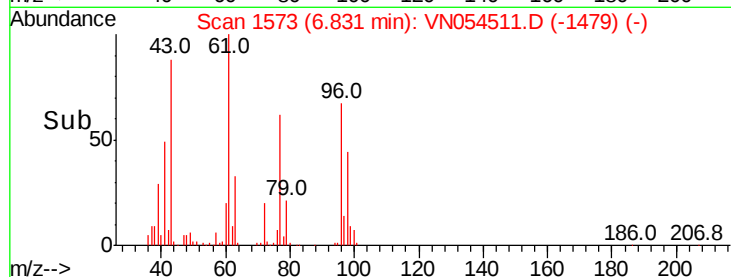
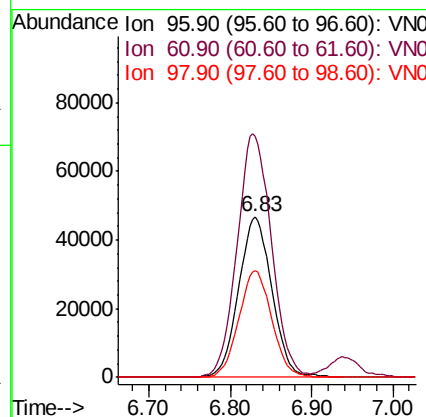
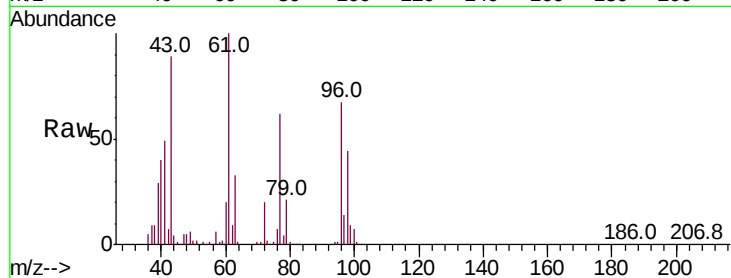
Acq: 21 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampleId :
VN0321MBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	155.9	0.0	273.0	
98	65.6	0.0	130.6	

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#28

Bromochloromethane

Concen: 20.994 ug/l

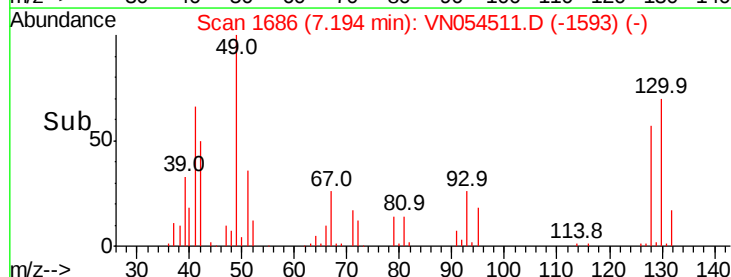
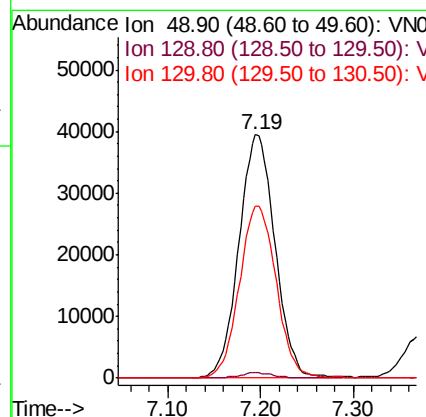
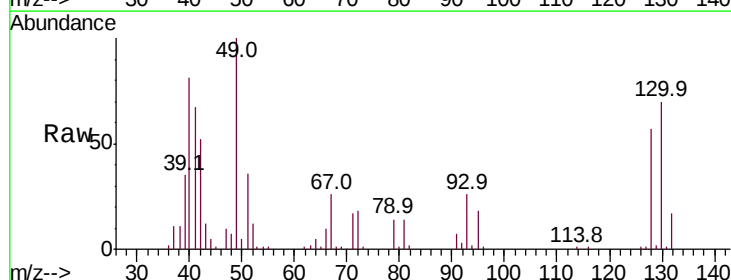
RT: 7.19 min Scan# 1686

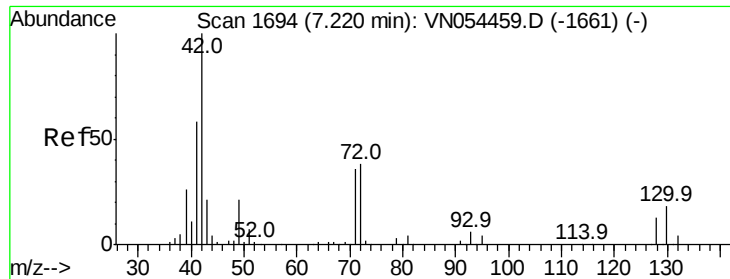
Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.0	0.0	4.6	
130	71.9	76.7	115.1#	





#29

Tetrahydrofuran

Concen: 110.646 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

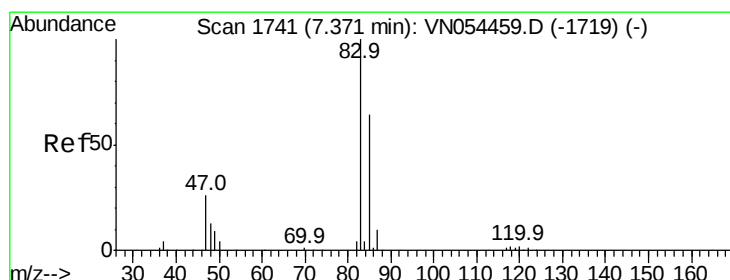
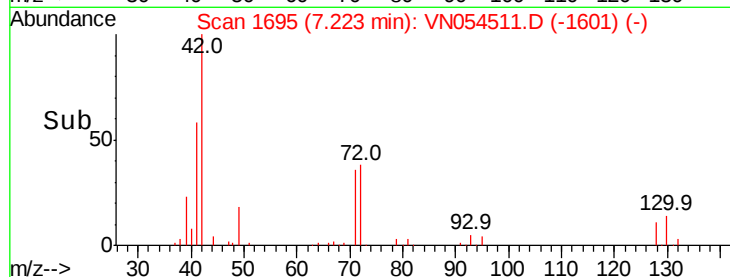
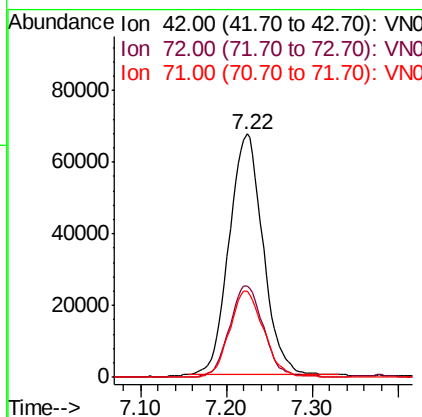
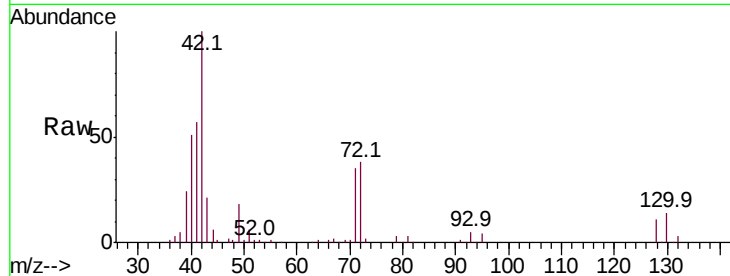
ClientSampleId :

VN0321MBS01

Tot Ion:	42	Resp:	184001
Ion Ratio		Lower	Upper
42	100		
72	38.5	37.8	56.6
71	36.4	36.2	54.2

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#30

Chloroform

Concen: 21.628 ug/l

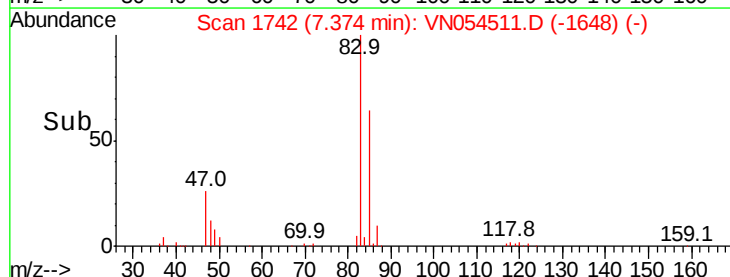
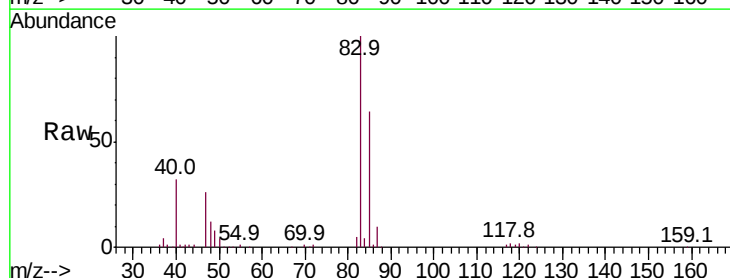
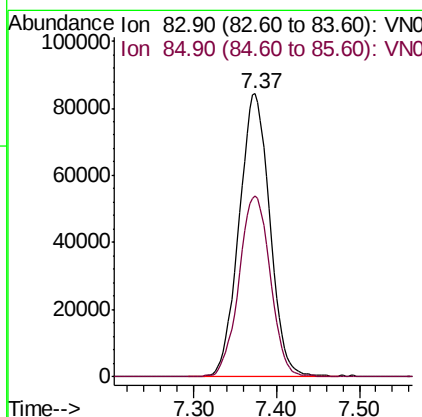
RT: 7.37 min Scan# 1742

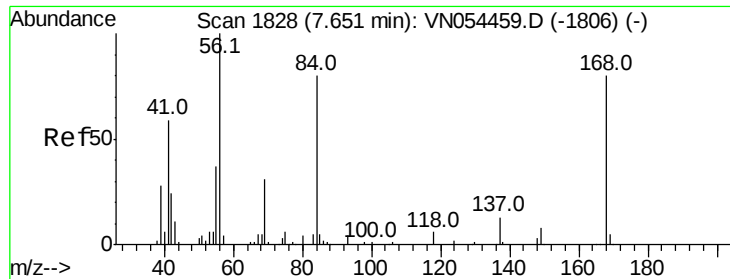
Delta R.T. 0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Tgt Ion:	83	Resp:	217804
Ion Ratio		Lower	Upper
83	100		
85	63.8	52.2	78.4





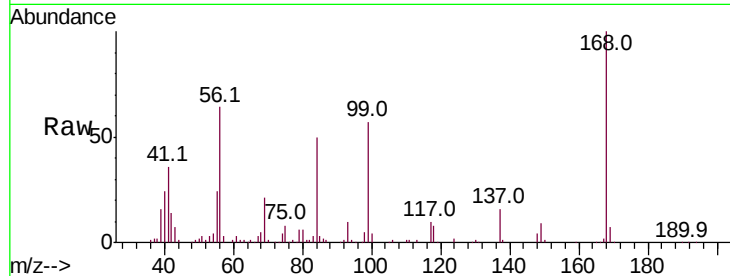
#31
Cyclohexane
Concen: 21.688 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampled :
VN0321MBS01

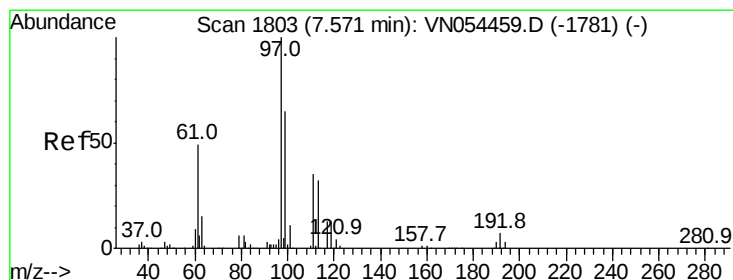
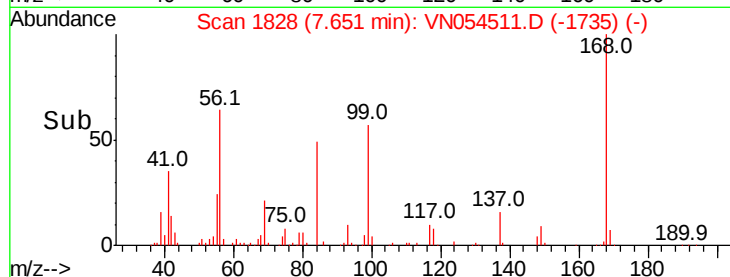
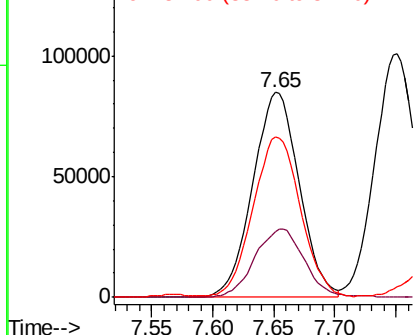
Tot Ion	Ratio	Lower	Upper
56	100		
69	32.2	27.8	41.6
84	77.2	74.6	111.8

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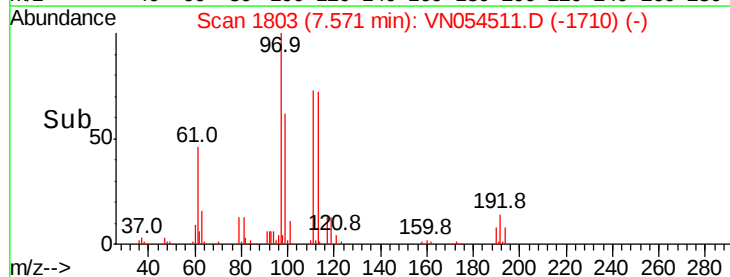
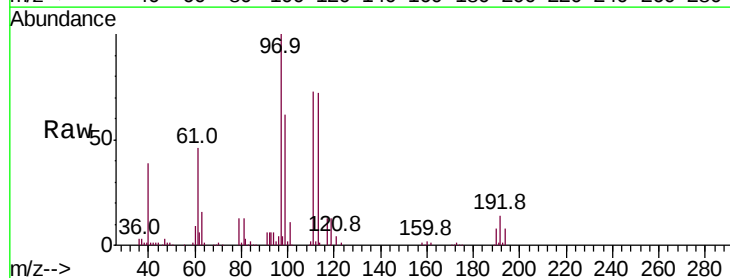
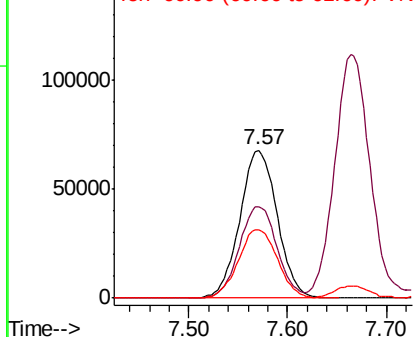
Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

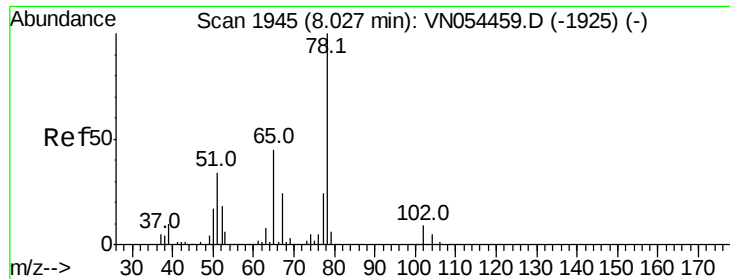


#32
1,1,1-Trichloroethane
Concen: 21.429 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.6	51.5	77.3
61	48.4	33.6	50.4

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





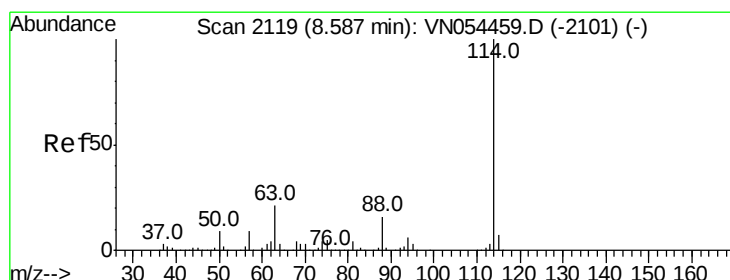
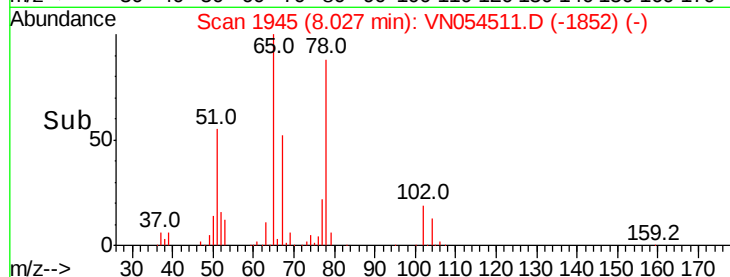
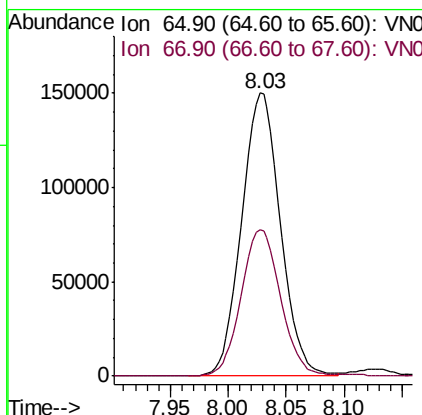
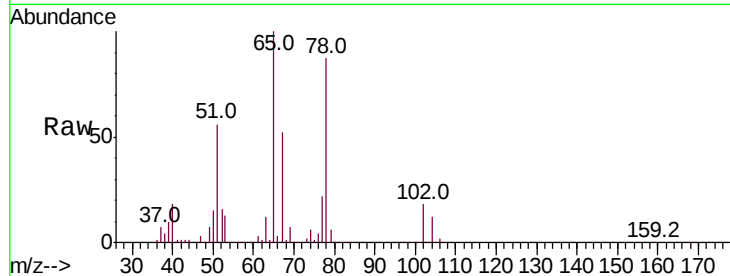
#33
 1,2-Dichloroethane-d4
 Concen: 52.666 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054511.D
 Acq: 21 Mar 2019 15:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321MBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.1	0.0	104.6	

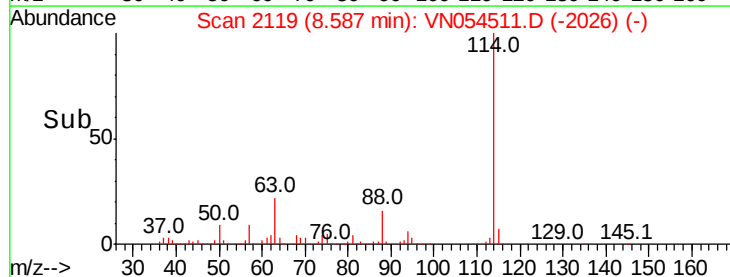
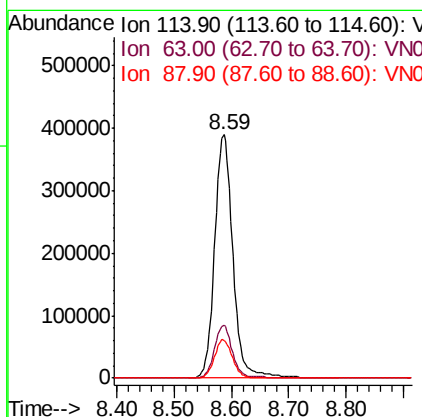
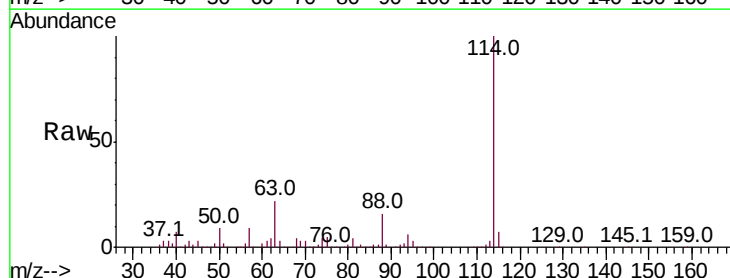
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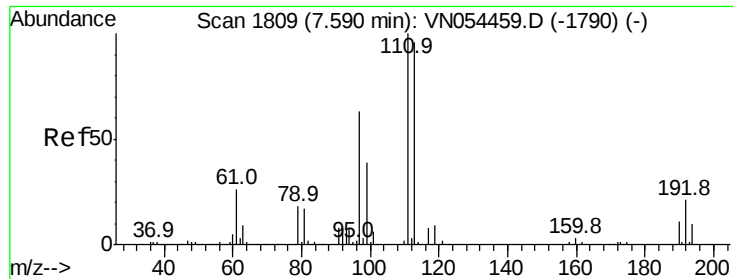
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054511.D
 Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	21.8	0.0	35.2	
88	15.6	0.0	30.2	





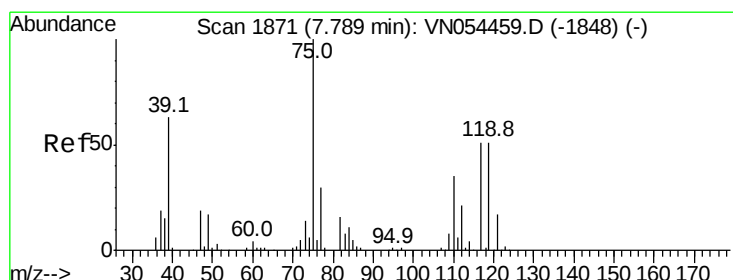
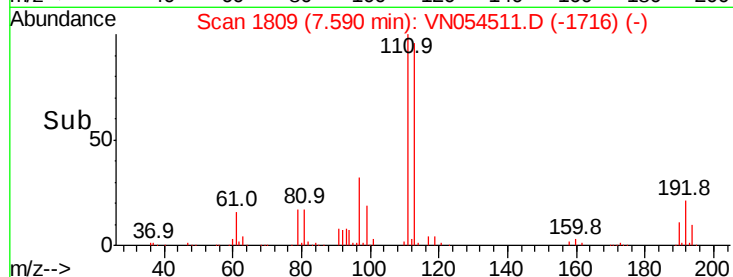
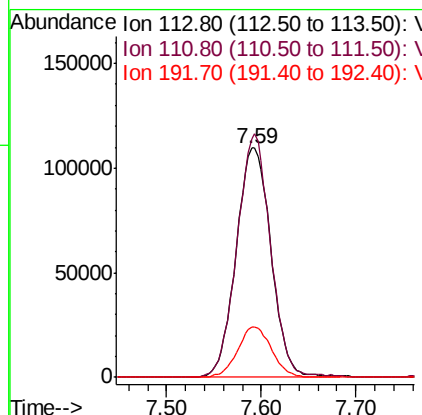
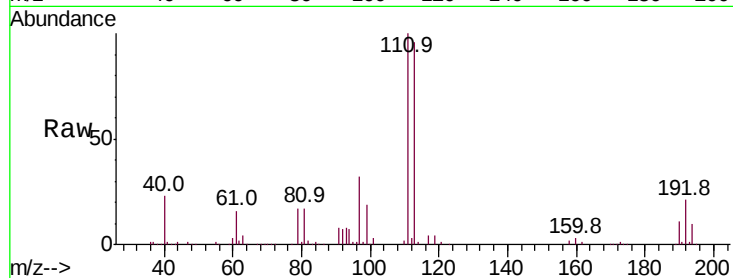
#35
 Dibromofluoromethane
 Concen: 50.448 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054511.D
 Acq: 21 Mar 2019 15:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	281419		
111	101.8	82.2	123.4	
192	21.4	19.2	28.8	

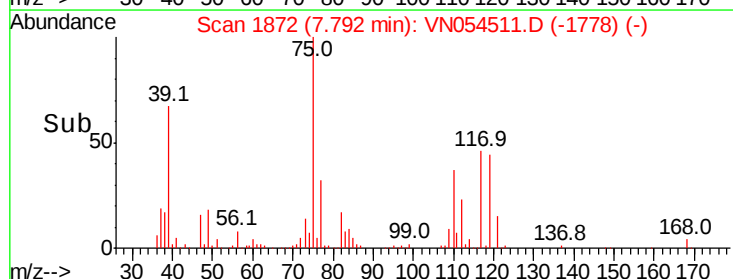
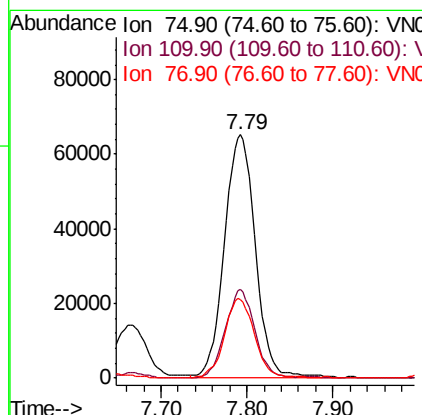
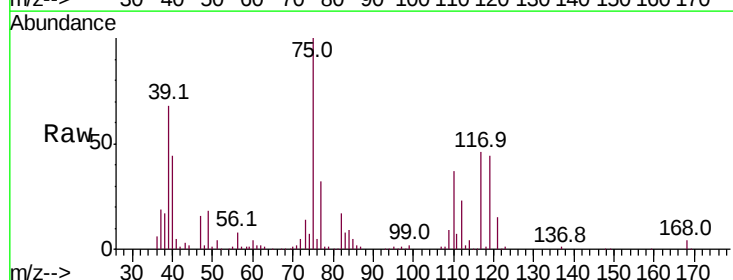
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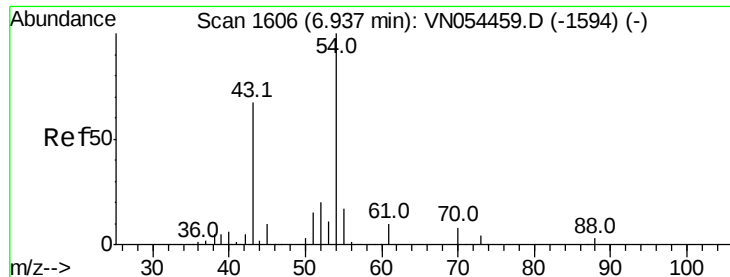
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#36
 1,1-Dichloropropene
 Concen: 19.955 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN054511.D
 Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	161559		
110	35.0	19.1	57.5	
77	32.2	25.0	37.4	





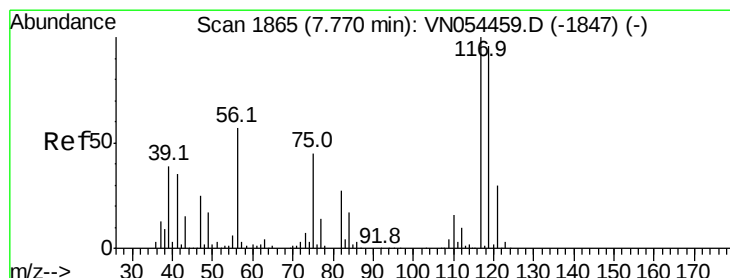
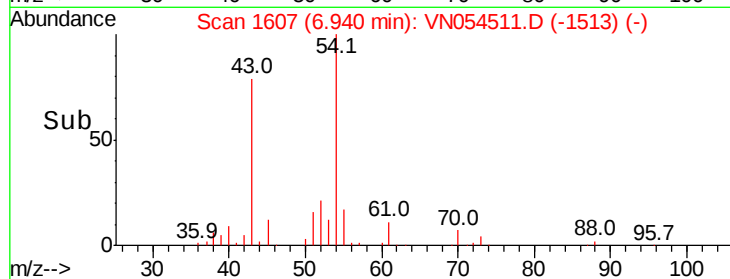
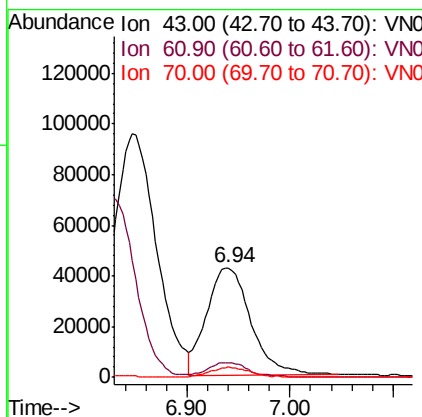
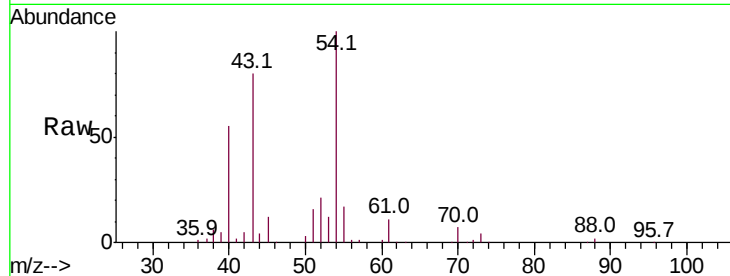
#37
Ethyl Acetate
Concen: 21.941 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampleId :
VN0321MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.5	11.8	17.6
70	8.7	8.4	12.6

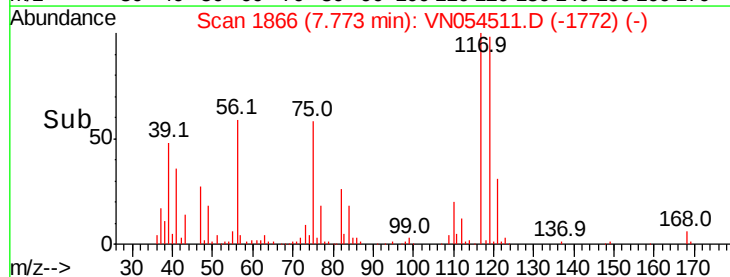
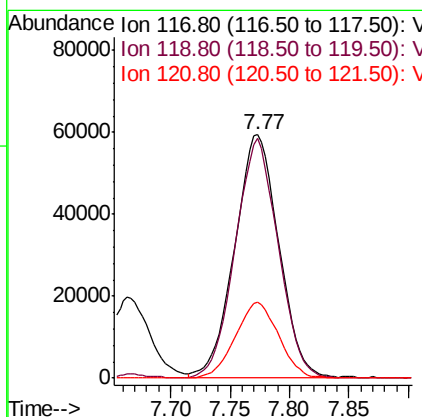
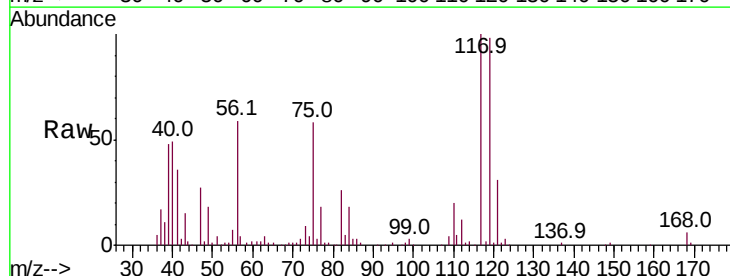
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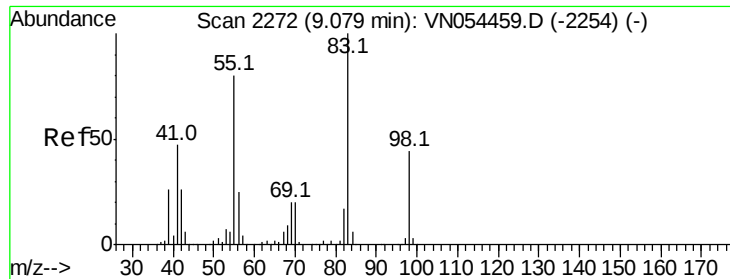
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#38
Carbon Tetrachloride
Concen: 19.220 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.4	76.3	114.5
121	31.3	24.6	36.8





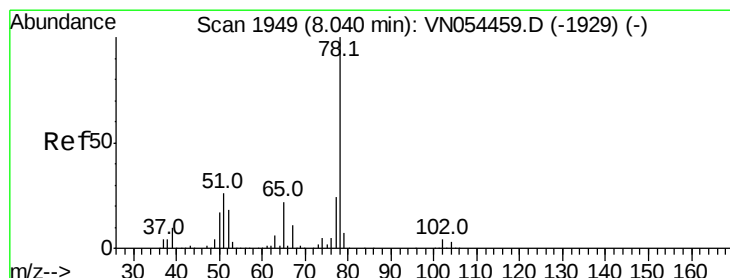
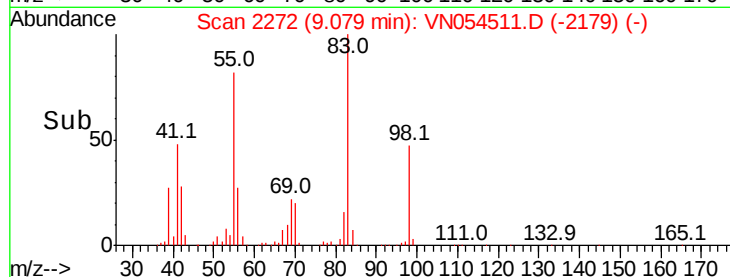
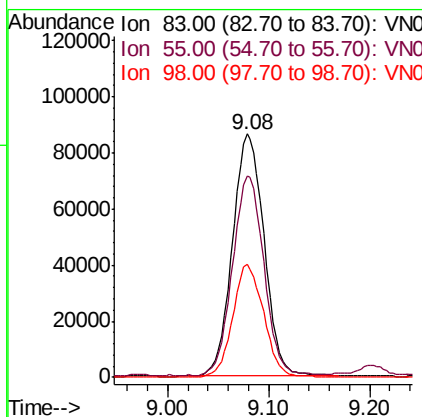
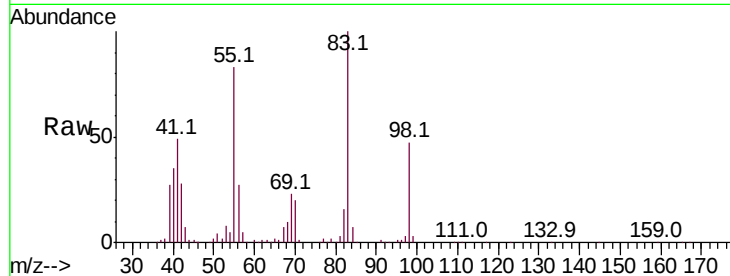
#39
Methvlcvclohexane
Concen: 20.348 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampleId :
VN0321MBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.2	56.6	84.8
98	46.7	38.4	57.6

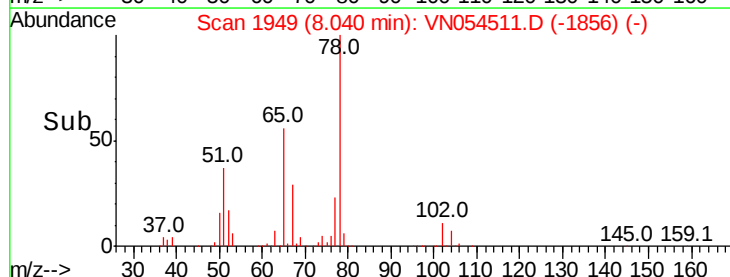
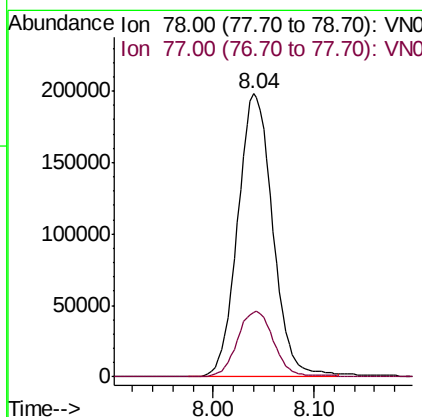
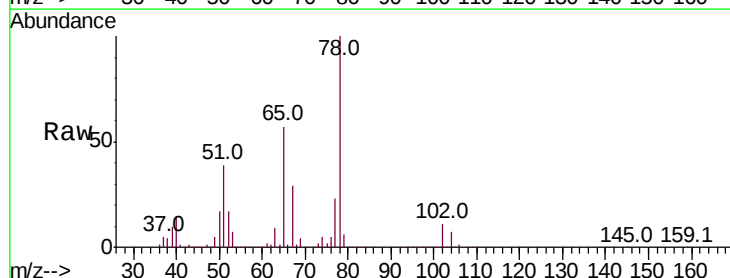
Manual Integrations
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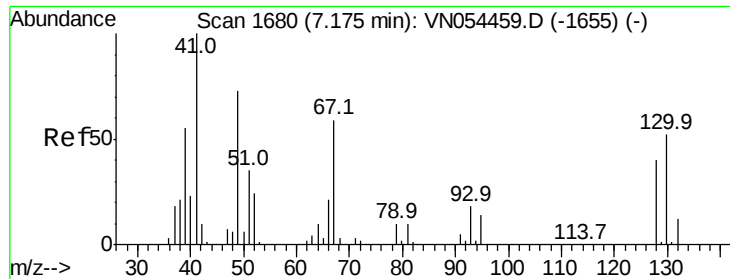
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#40
Benzene
Concen: 20.579 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.1	28.7





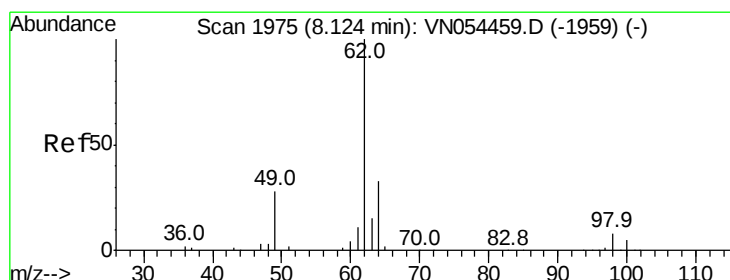
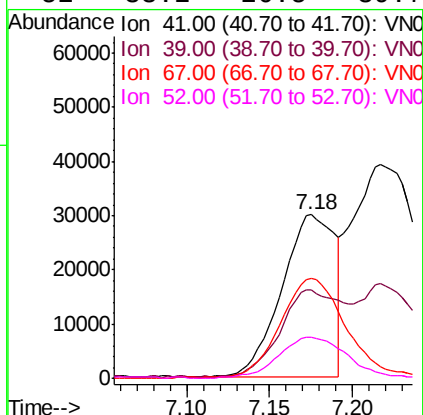
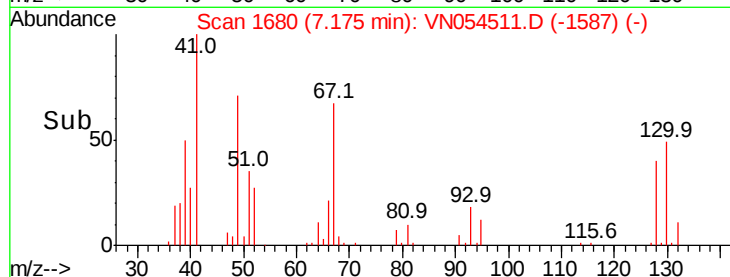
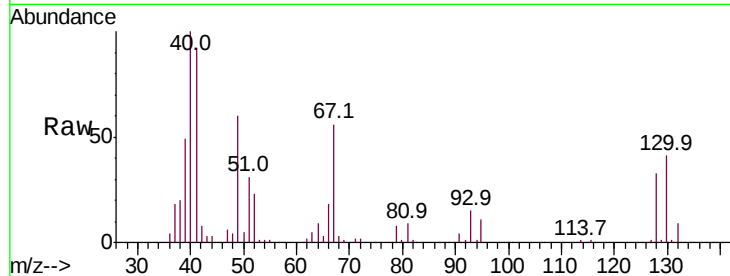
#41
Methacrylonitrile
Concen: 19.013 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampleId :
VN0321MBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	61.8	46.8	70.2	
67	76.3	67.0	100.4	
52	33.2	26.5	39.7	

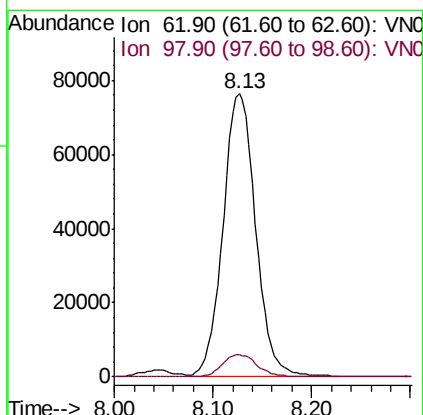
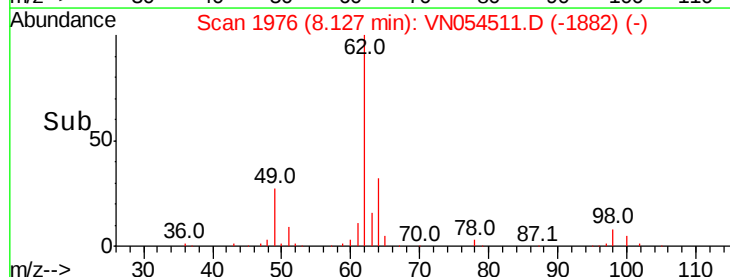
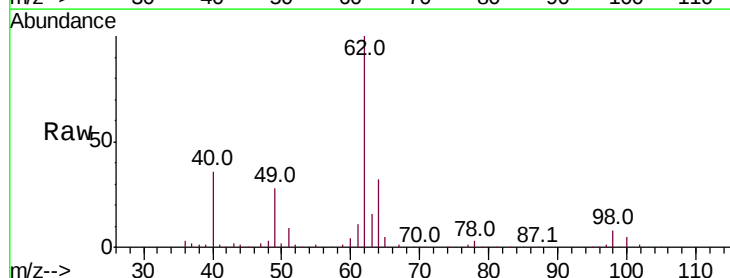
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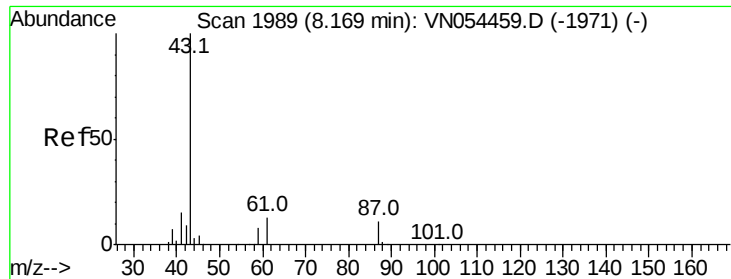
MMDadoda
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#42
1,2-Dichloroethane
Concen: 20.853 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.4	0.0	18.4	





#43

Isopropyl Acetate

Concen: 21.303 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

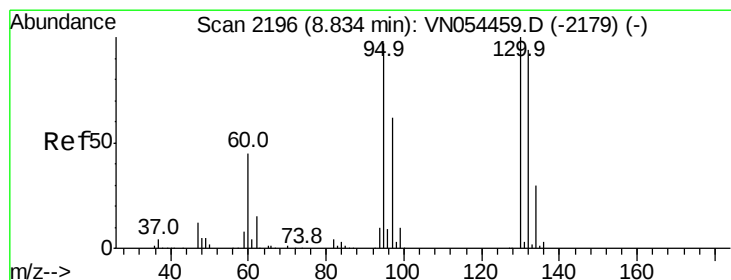
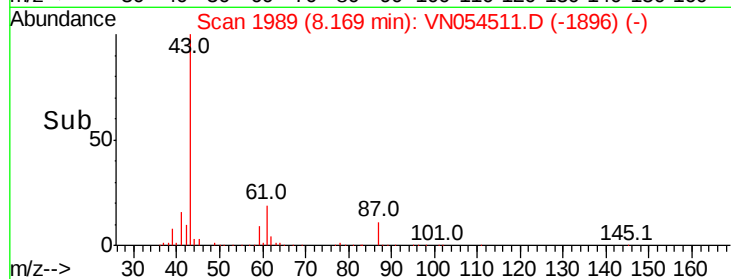
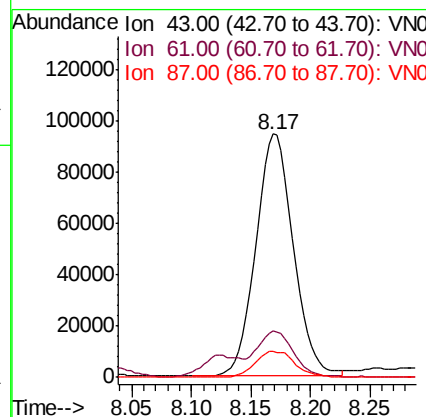
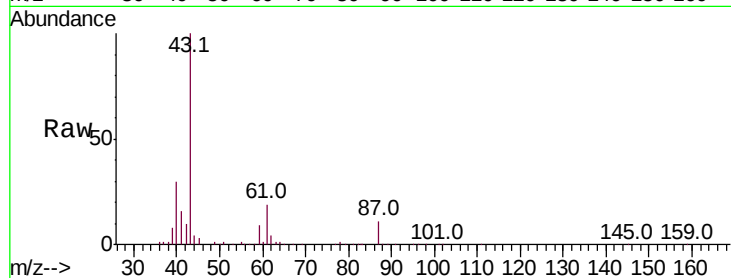
ClientSampleId :

VN0321MBS01

Tot Ion:	43	Resp:	207161
Ion Ratio	Lower	Upper	
43	100		
61	18.1	15.8	23.8
87	11.6	12.0	18.0#

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#44

Trichloroethene

Concen: 20.195 ug/l

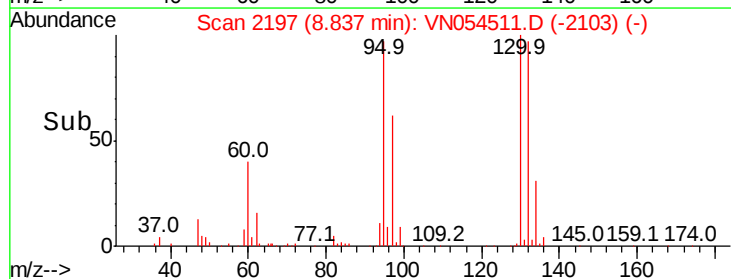
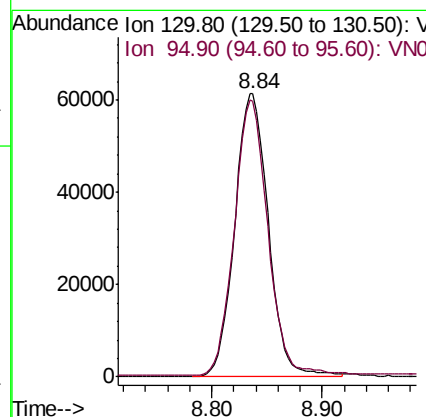
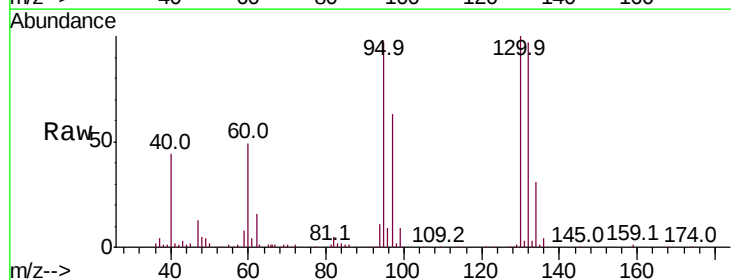
RT: 8.84 min Scan# 2197

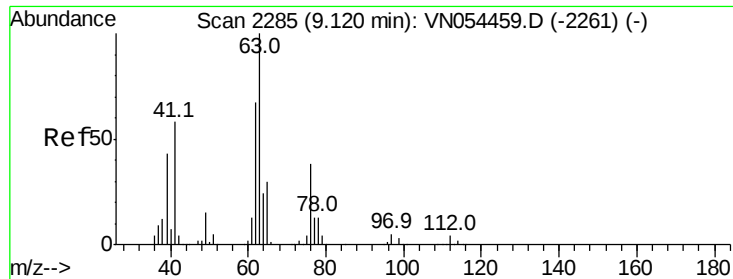
Delta R.T. 0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Tgt Ion:	130	Resp:	129985
Ion Ratio	Lower	Upper	
130	100		
95	96.7	0.0	185.2





#45

1,2-Dichloropropane

Concen: 21.995 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBS01

Tot Ion: 63 Resp: 136734

Ion Ratio Lower Upper

63 100

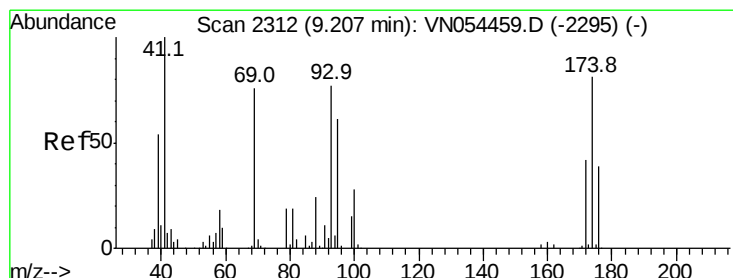
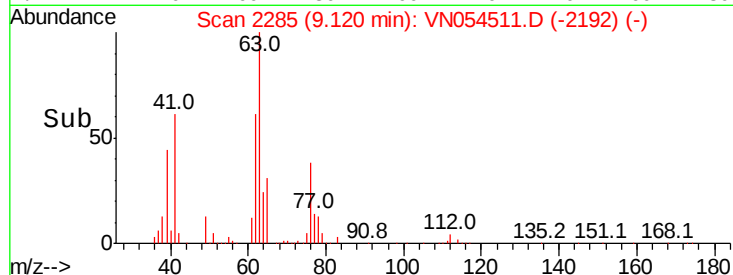
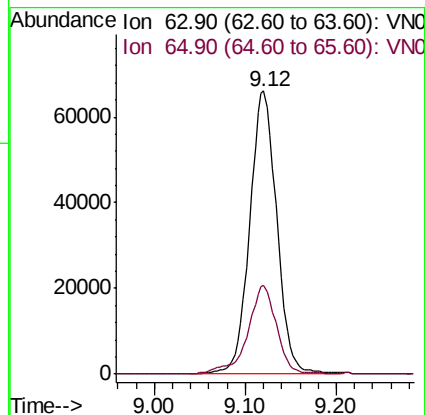
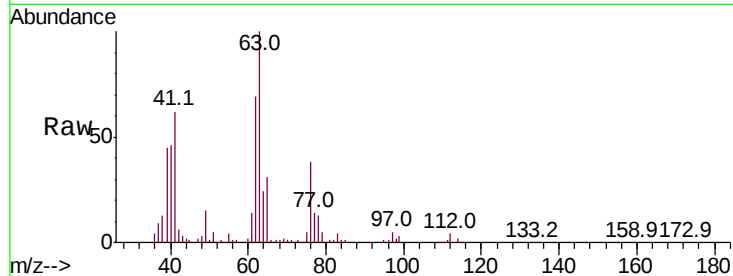
65 31.2 25.0 37.6

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#46

Dibromomethane

Concen: 20.669 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

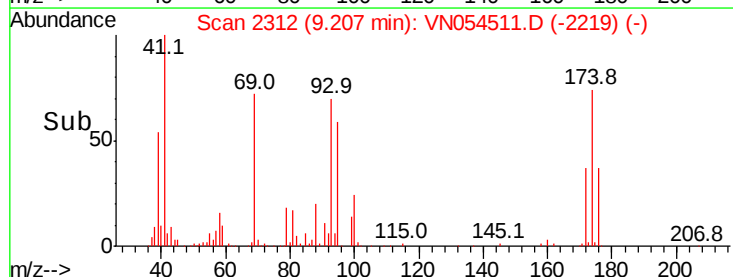
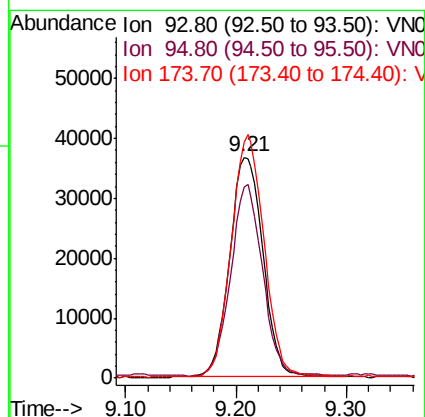
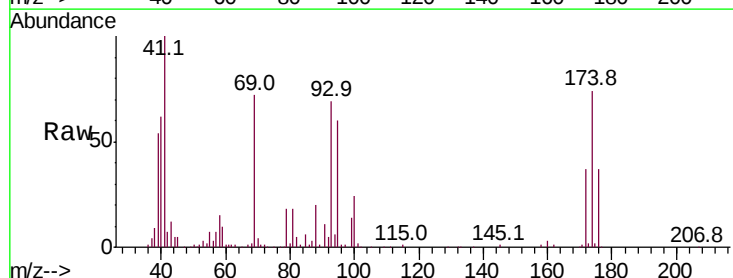
Tgt Ion: 93 Resp: 76654

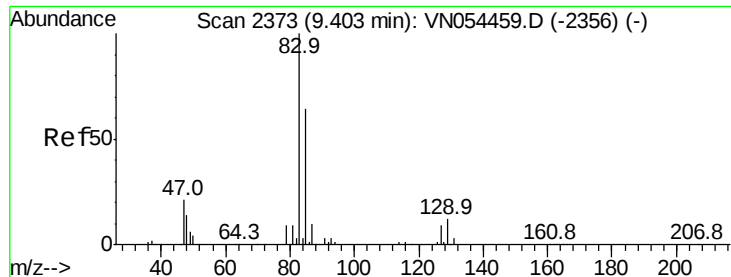
Ion Ratio Lower Upper

93 100

95 83.6 66.7 100.1

174 108.6 98.5 147.7





#47

Bromodichloromethane

Concen: 20.767 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

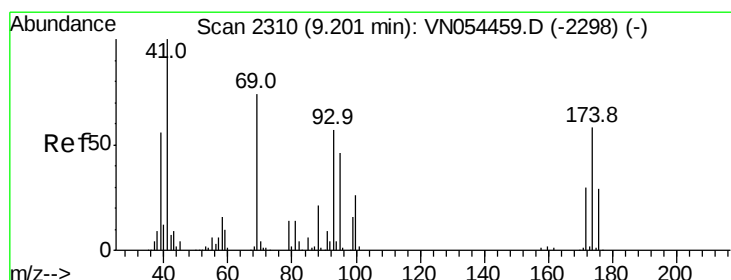
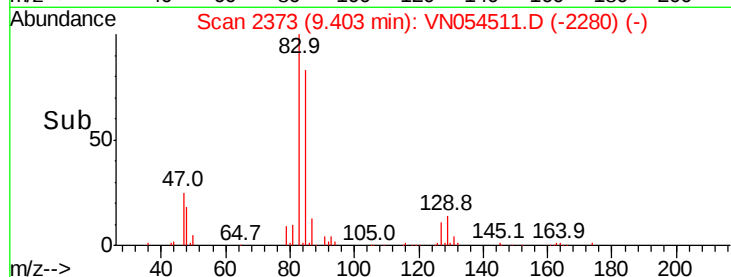
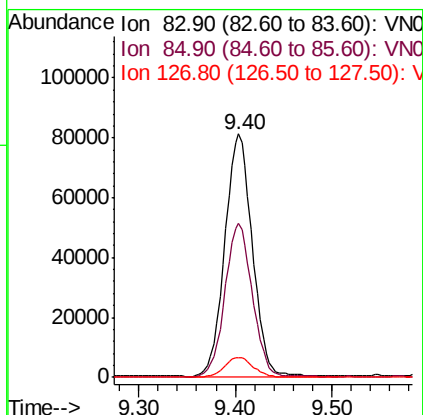
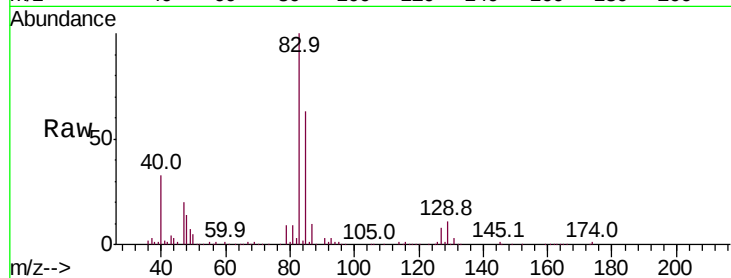
ClientSampleId :

VN0321MBS01

Tot Ion:	83	Resp:	159837
Ion Ratio	Lower	Upper	
83	100		
85	63.2	52.8	79.2
127	8.3	7.4	11.2

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#48

Methyl methacrylate

Concen: 20.848 ug/l

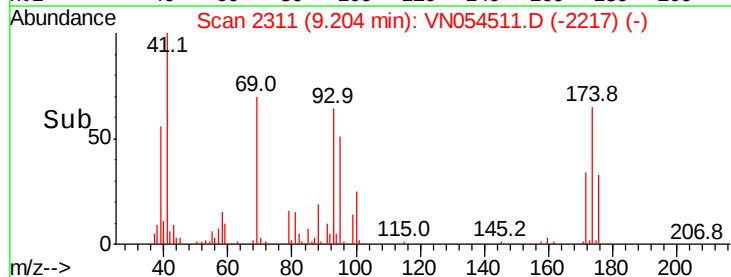
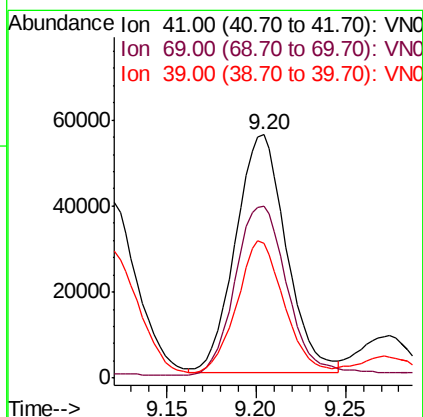
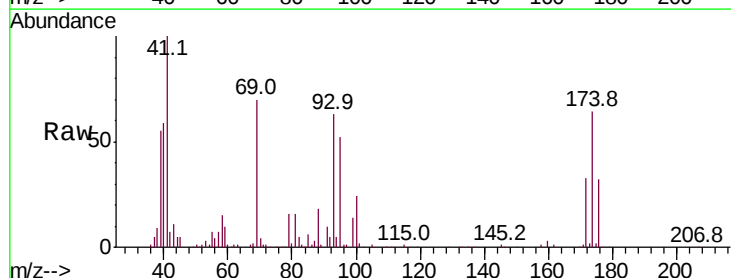
RT: 9.20 min Scan# 2311

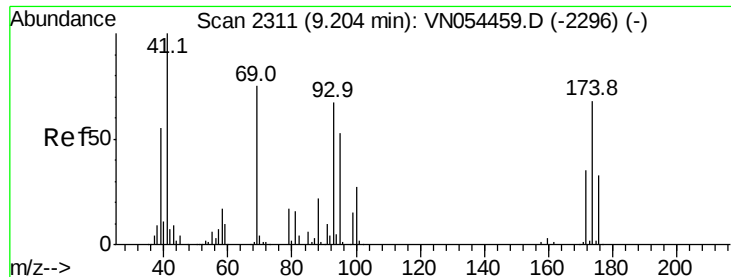
Delta R.T. 0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Tgt Ion:	41	Resp:	110041
Ion Ratio	Lower	Upper	
41	100		
69	74.7	72.6	108.8
39	54.4	47.5	71.3





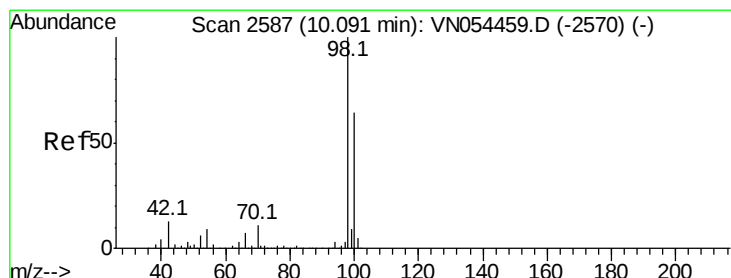
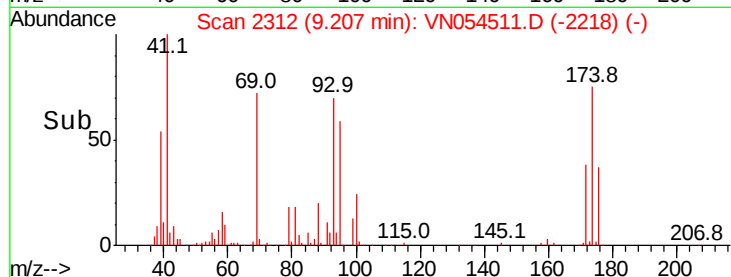
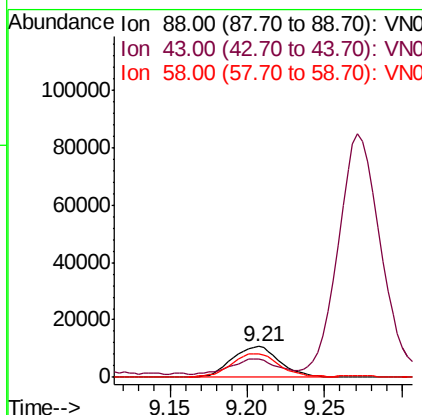
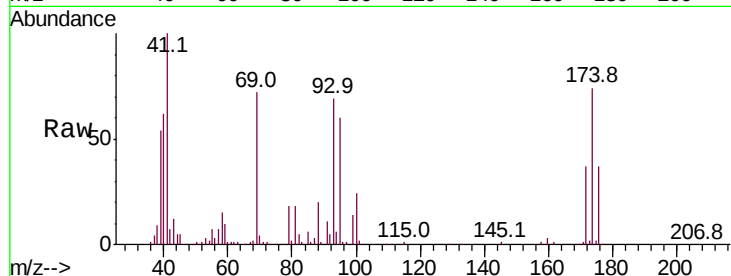
#49
1,4-Dioxane
Concen: 390.188 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. 0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampleId :
VN0321MBS01

Tot Ion: 88 Resp: 23024
Ion Ratio Lower Upper
88 100
43 45.1 24.1 36.1#
58 78.3 50.8 76.2#

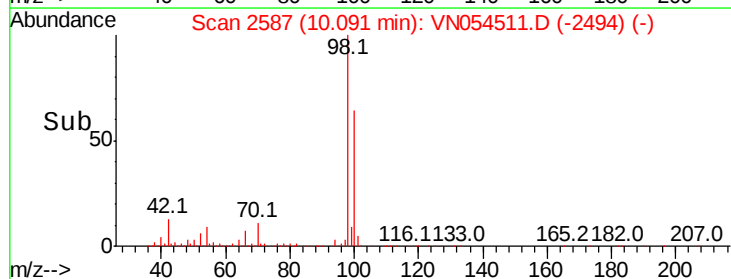
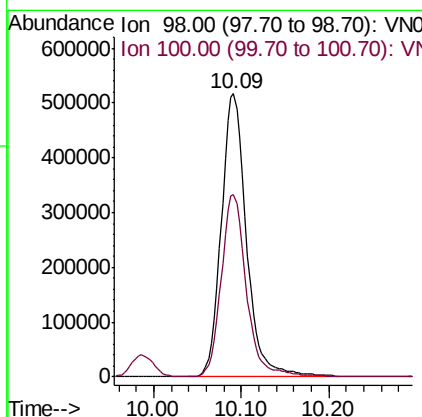
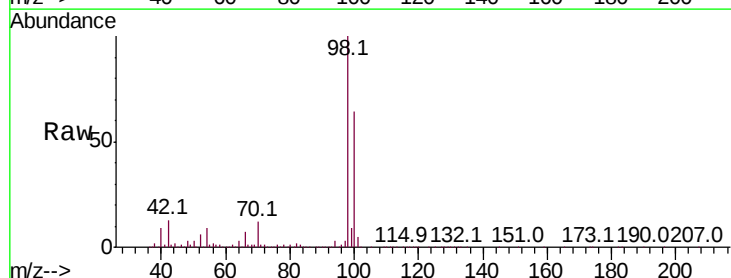
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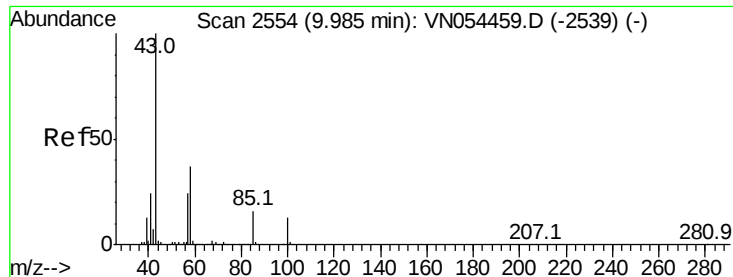
MMDadoda
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#50
Toluene-d8
Concen: 49.382 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Tgt Ion: 98 Resp: 1035607
Ion Ratio Lower Upper
98 100
100 63.9 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 109.159 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBS01

Tot Ion: 43 Resp: 588308

Ion Ratio Lower Upper

43 100

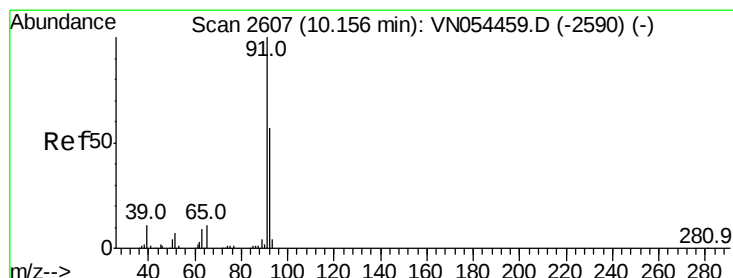
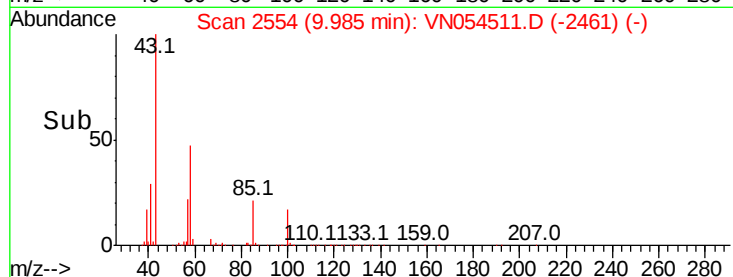
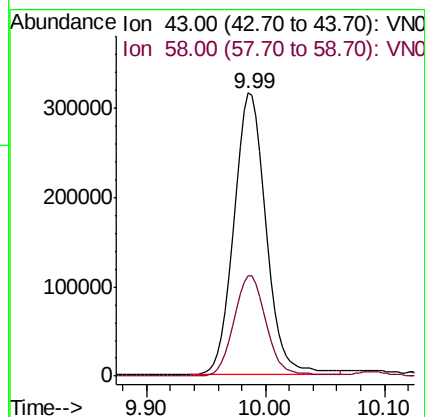
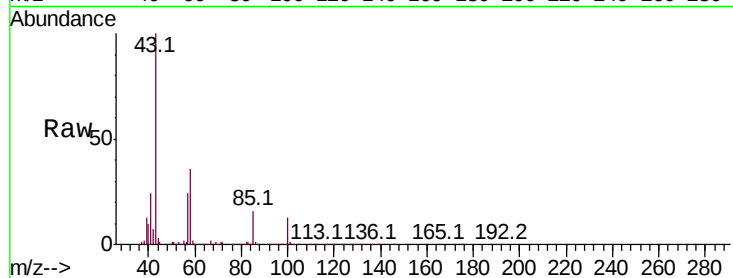
58 36.4 31.8 47.6

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#52

Toluene

Concen: 20.111 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054511.D

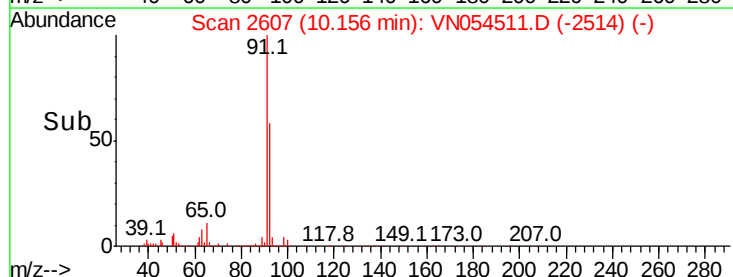
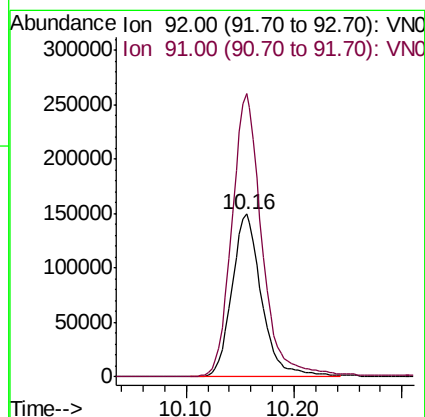
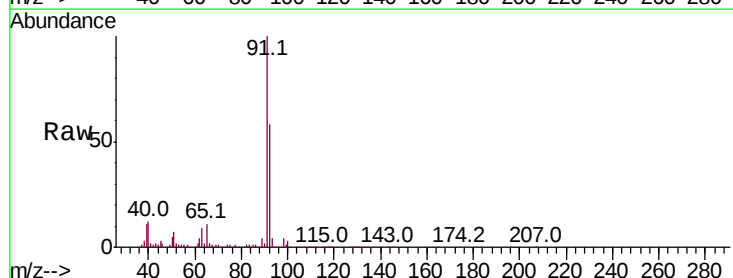
Acq: 21 Mar 2019 15:15

Tgt Ion: 92 Resp: 286363

Ion Ratio Lower Upper

92 100

91 176.6 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 19.021 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBS01

Tot Ion: 75 Resp: 142681

Ion Ratio Lower Upper

75 100

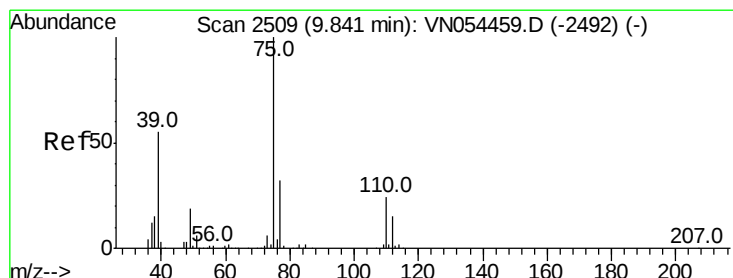
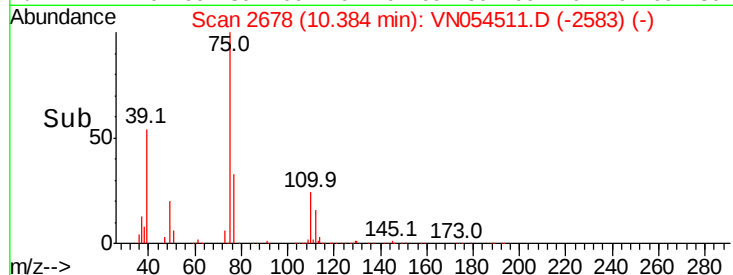
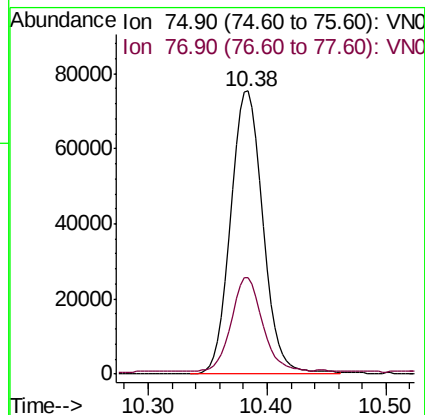
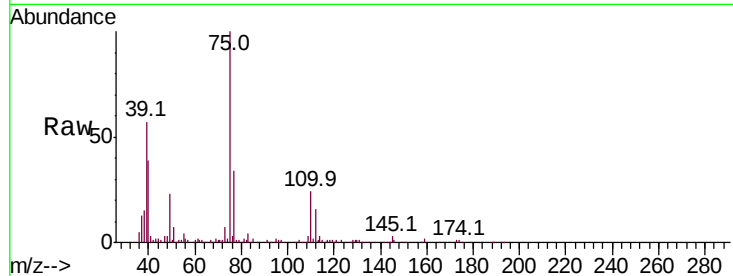
77 33.1 25.8 38.8

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 20.438 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

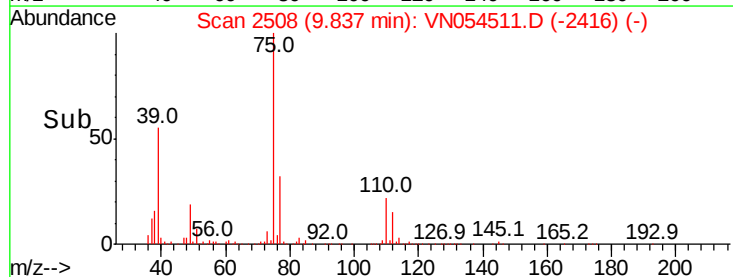
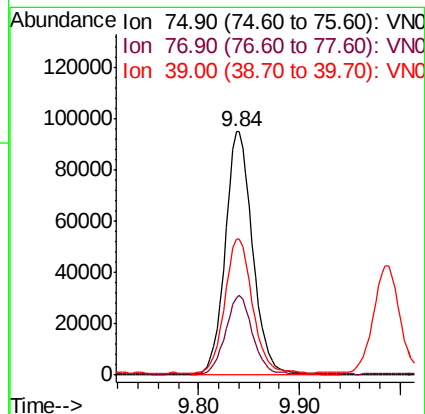
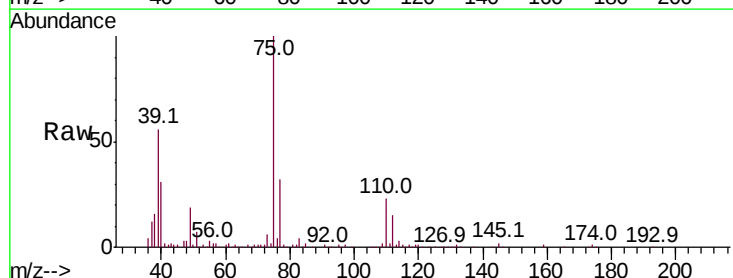
Tgt Ion: 75 Resp: 180369

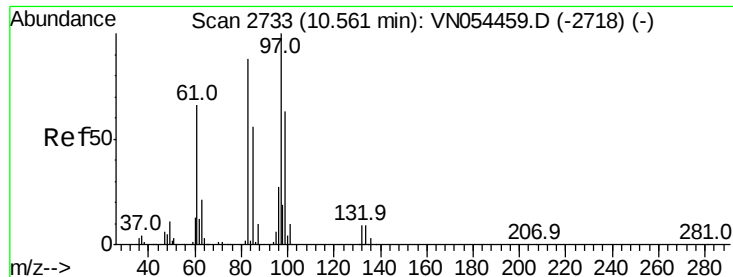
Ion Ratio Lower Upper

75 100

77 31.4 25.4 38.0

39 54.9 37.2 55.8





#55

1,1,2-Trichloroethane

Concen: 20.807 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

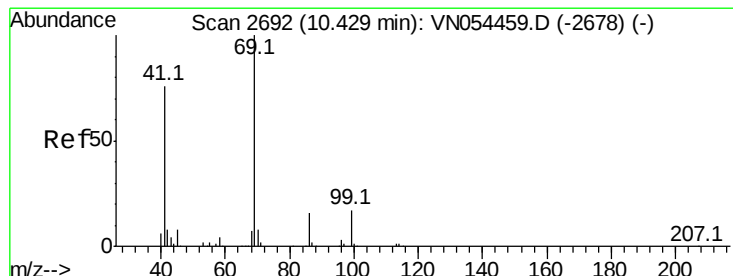
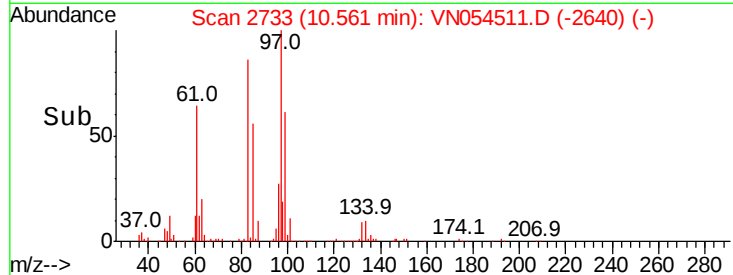
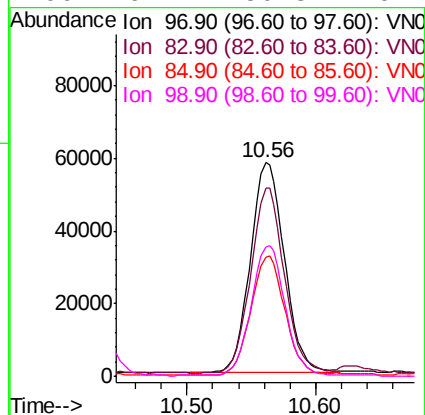
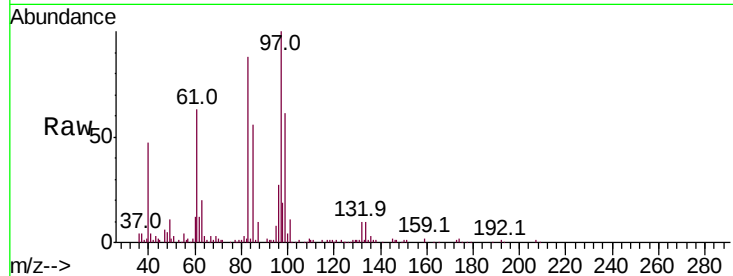
ClientSampleId :

VN0321MBS01

Tot Ion	97	Resp	106499
Ion Ratio	Lower	Upper	
97	100		
83	88.2	66.6	100.0
85	56.2	44.4	66.6
99	61.1	50.8	76.2

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#56

Ethyl methacrylate

Concen: 21.398 ug/l

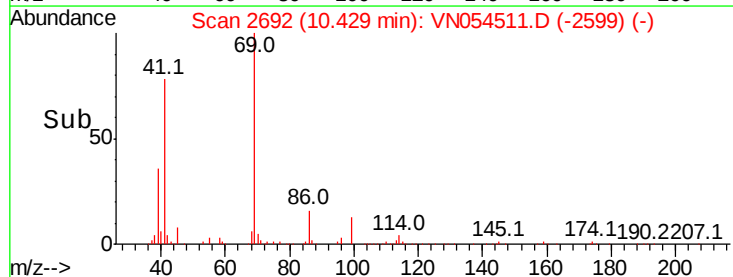
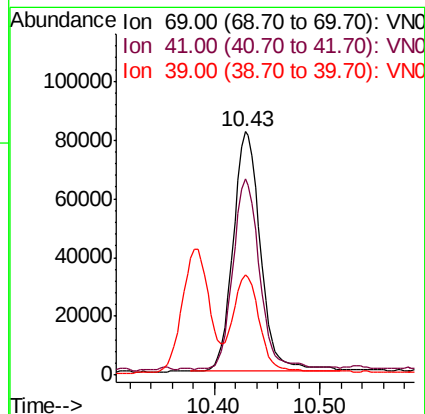
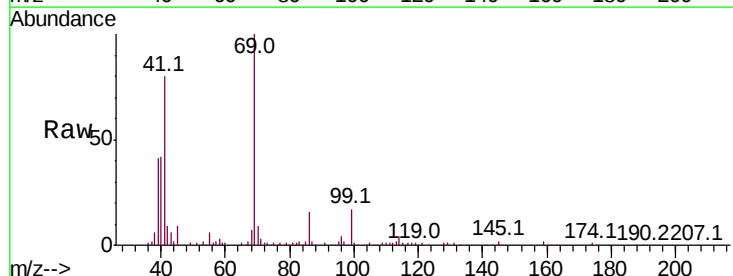
RT: 10.43 min Scan# 2692

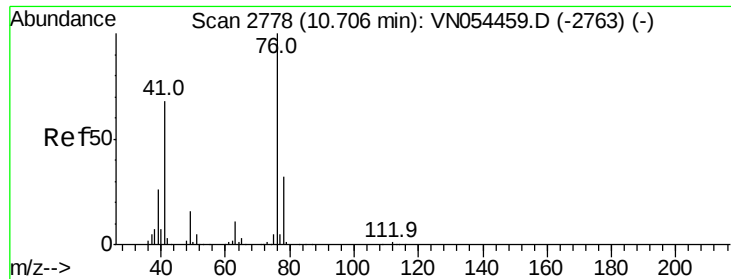
Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Tgt Ion	69	Resp	147003
Ion Ratio	Lower	Upper	
69	100		
41	76.6	49.4	74.2#
39	38.8	28.3	42.5





#57

1,3-Dichloropropane

Concen: 21.220 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampled :

VN0321MBS01

Tot Ion: 76 Resp: 188800

Ion Ratio Lower Upper

76 100

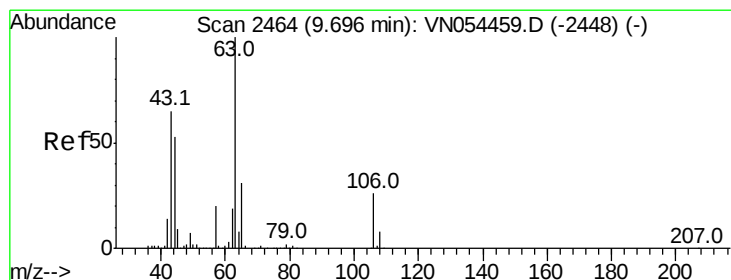
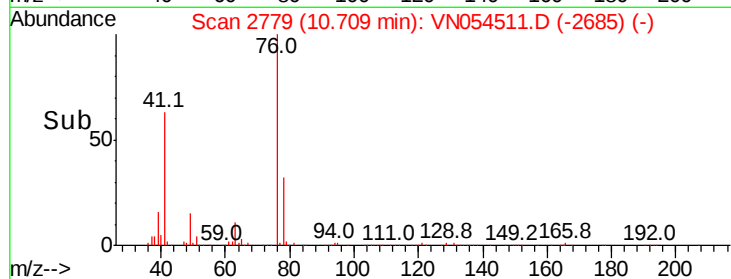
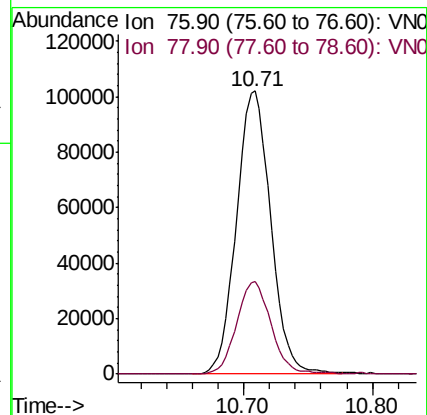
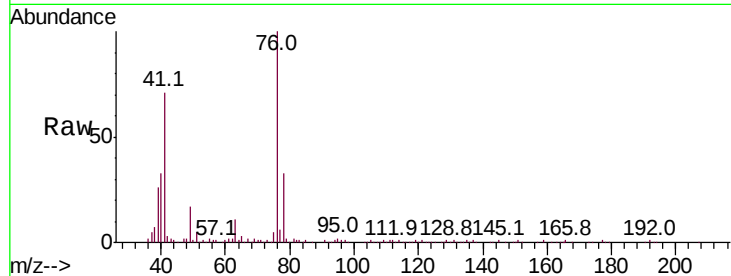
78 32.4 25.7 38.5

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 99.236 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN054511.D

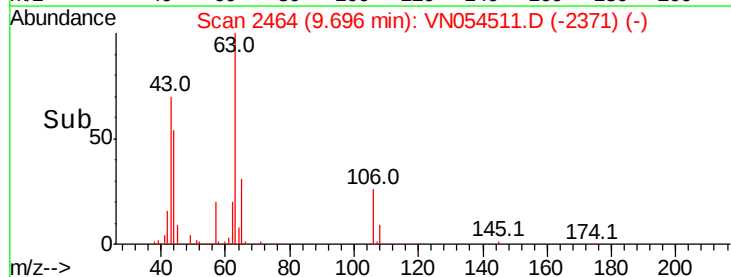
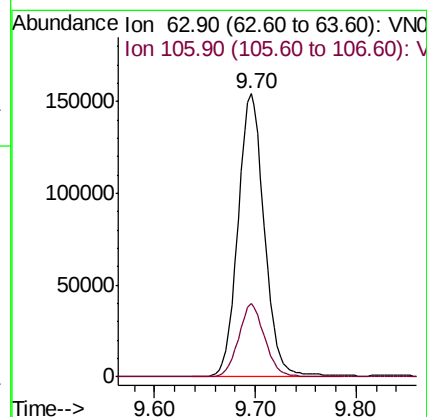
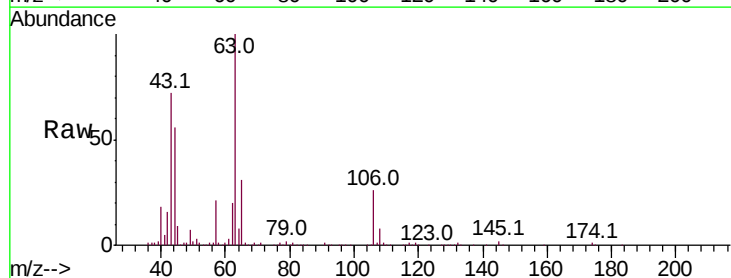
Acq: 21 Mar 2019 15:15

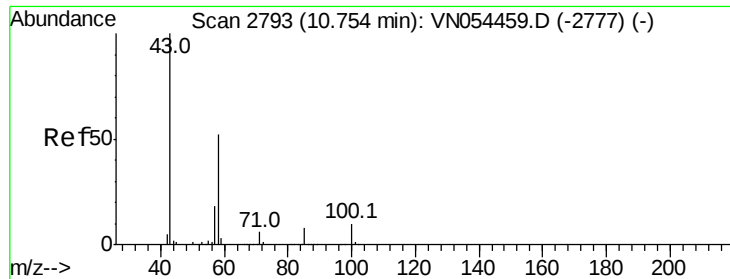
Tgt Ion: 63 Resp: 280725

Ion Ratio Lower Upper

63 100

106 25.6 24.4 36.6





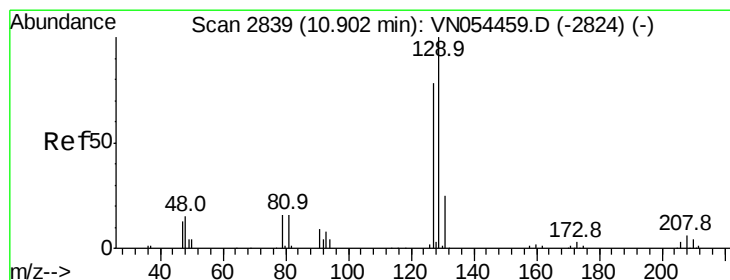
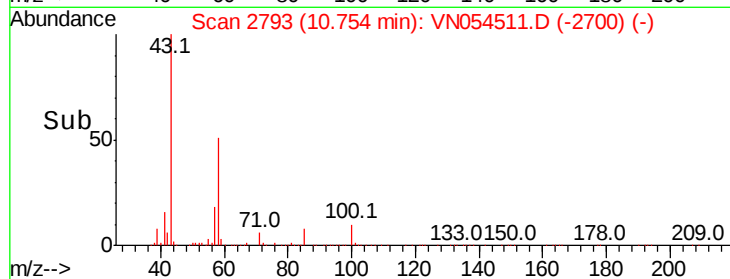
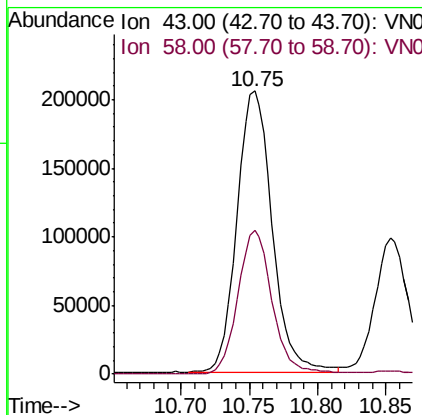
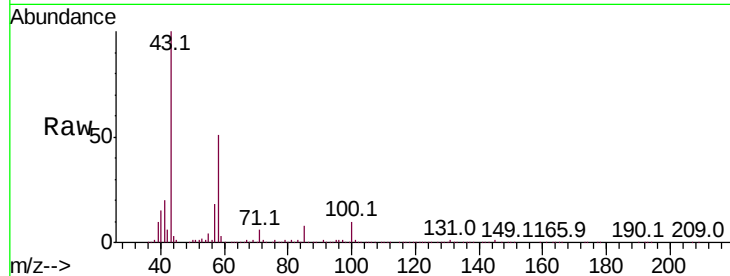
#59
2-Hexanone
Concen: 104.274 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampleId :
VN0321MBS01

Tot Ion: 43 Resp: 367080
Ion Ratio Lower Upper
43 100
58 49.8 28.0 83.9

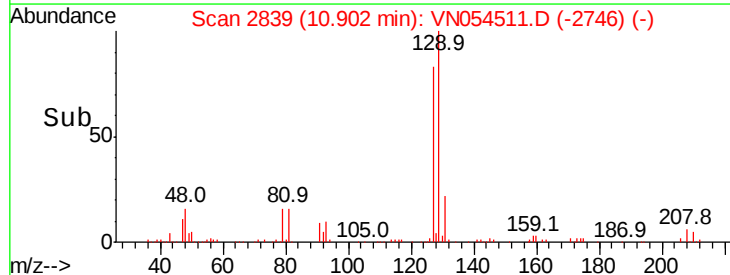
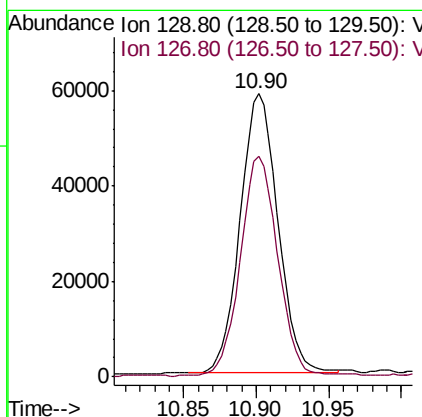
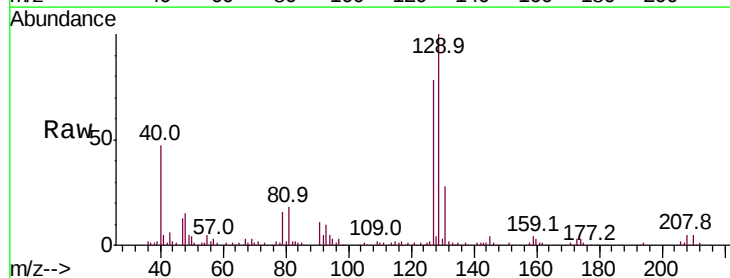
Manual Integrations
APPROVED

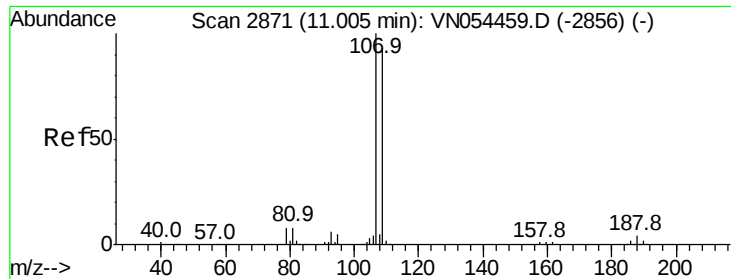
MMDadoda
3/22/2019 4:15:24 PM



#60
Dibromochloromethane
Concen: 19.472 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Tgt Ion: 129 Resp: 106051
Ion Ratio Lower Upper
129 100
127 78.6 38.6 115.8





#61

1,2-Dibromoethane

Concen: 20.930 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBS01

Tot Ion:107 Resp: 105909

Ion Ratio Lower Upper

107 100

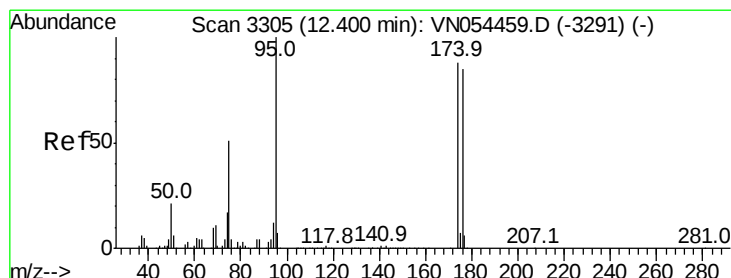
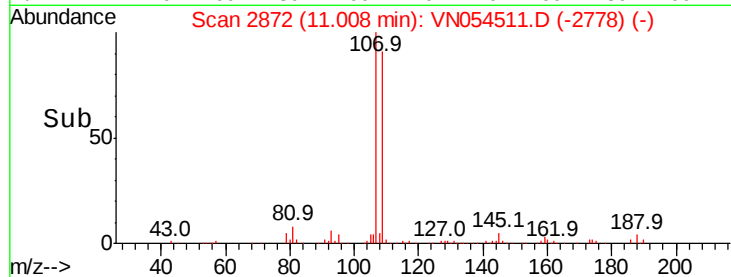
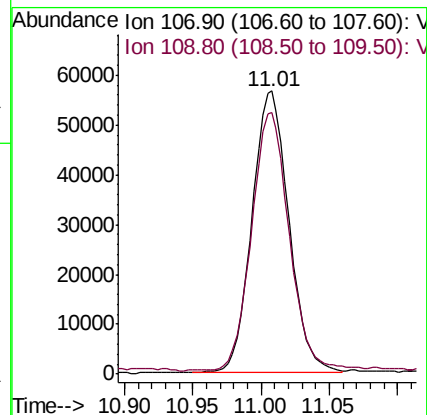
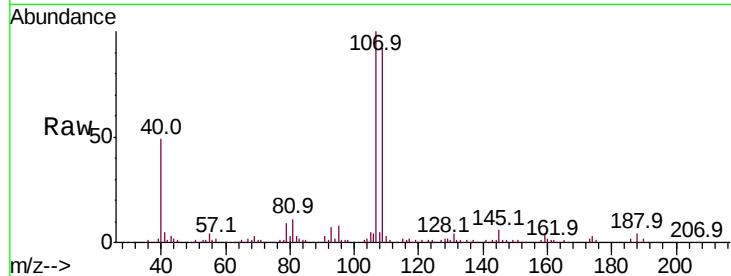
109 93.3 75.9 113.9

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 48.300 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

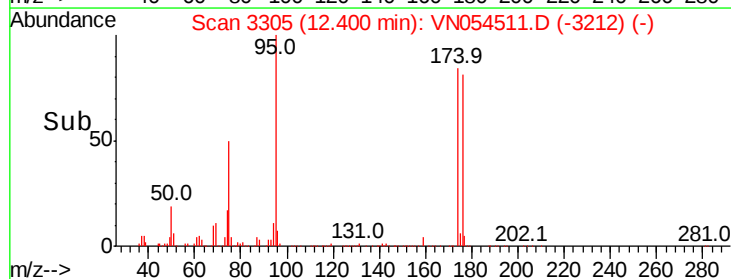
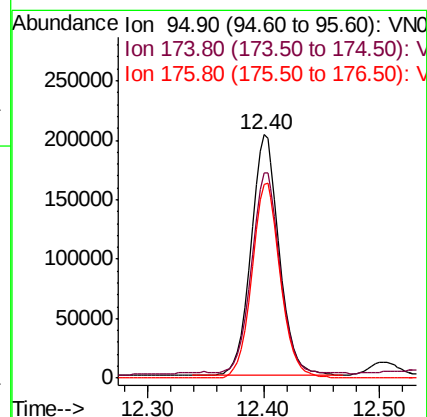
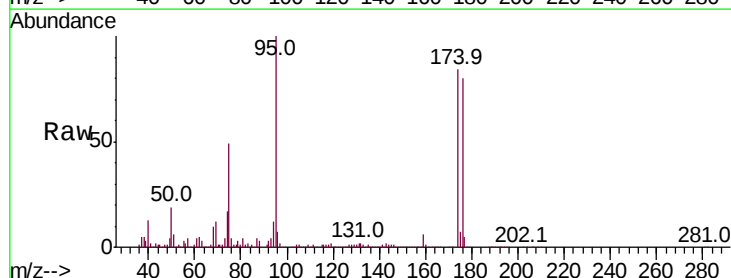
Tgt Ion: 95 Resp: 344675

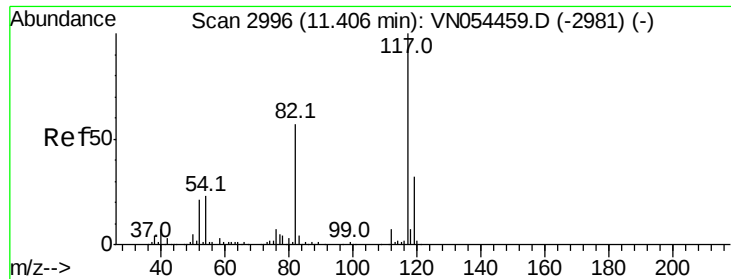
Ion Ratio Lower Upper

95 100

174 83.4 0.0 191.0

176 81.8 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: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

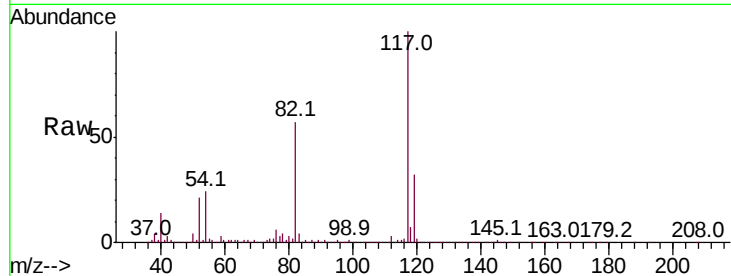
ClientSampleId :

VN0321MBS01

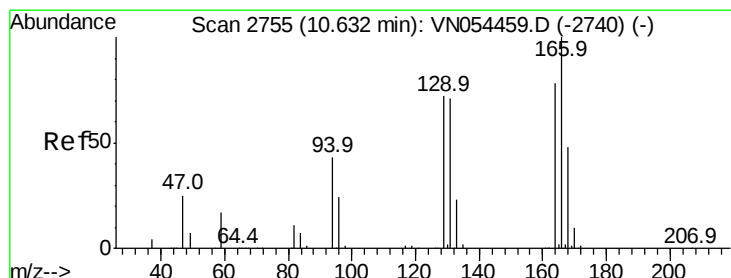
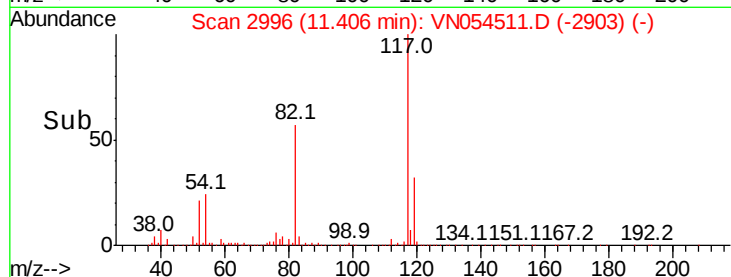
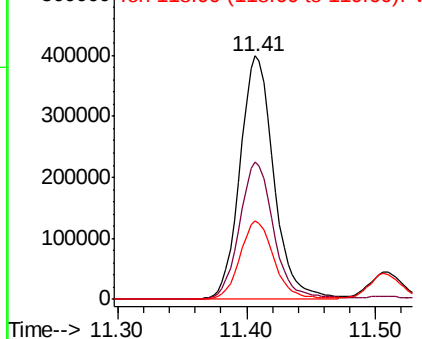
Tot Ion:	117	Resp:	722669
Ion	Ratio	Lower	Upper
117	100		
82	56.5	40.0	60.0
119	32.0	25.8	38.6

Manual Integrations
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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: 20.834 ug/l

RT: 10.63 min Scan# 2755

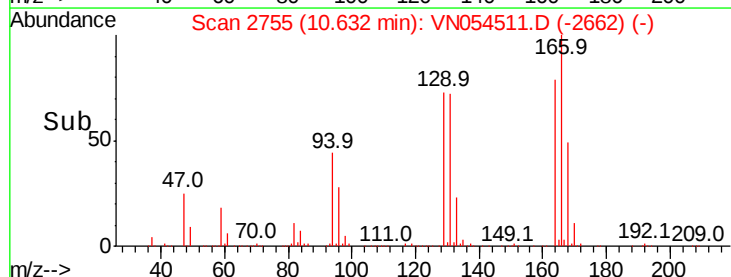
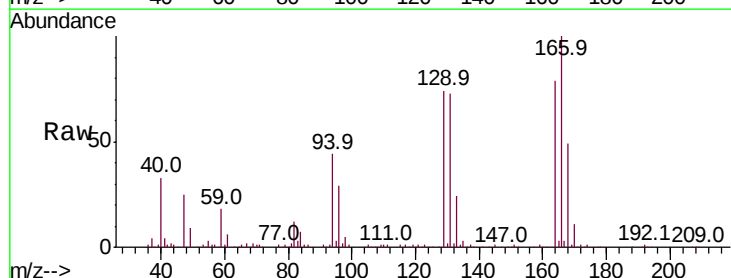
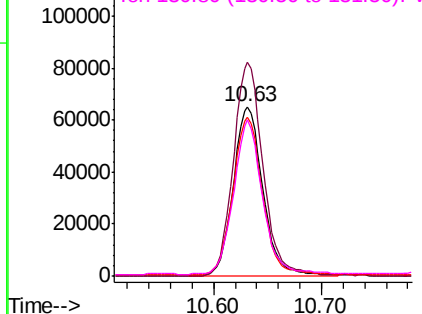
Delta R.T. -0.00 min

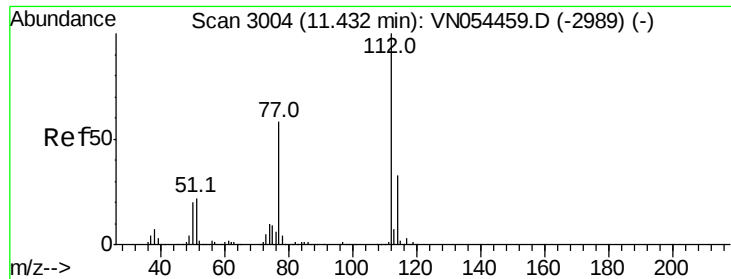
Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Tgt Ion:	164	Resp:	124884
Ion	Ratio	Lower	Upper
164	100		
166	126.1	103.9	155.9
129	92.9	71.1	106.7
131	90.8	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: 20.735 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBS01

Tot Ion:112 Resp: 304773

Ion Ratio Lower Upper

112 100

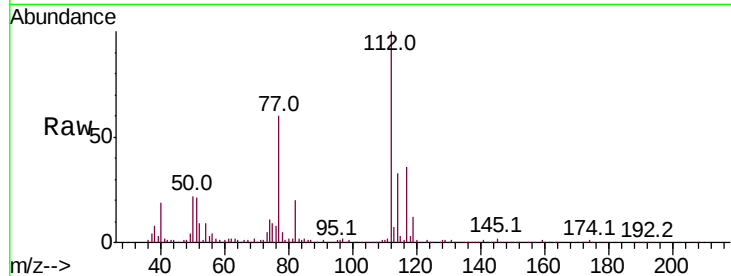
114 32.8 25.9 38.9

Manual Integrations

APPROVED

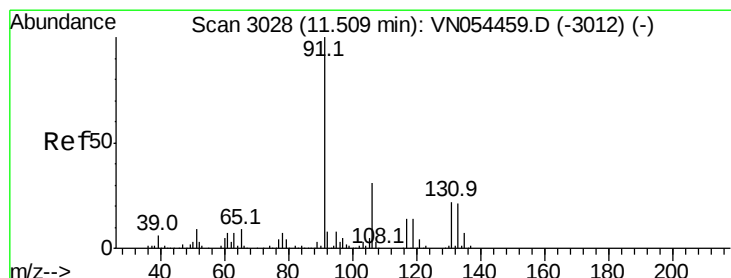
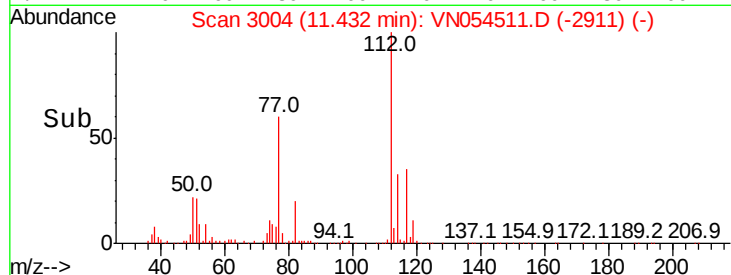
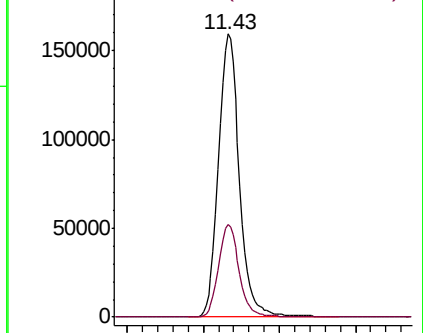
MMDadoda

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 21.344 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

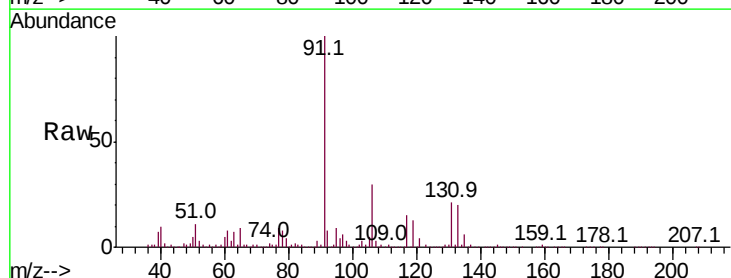
Tgt Ion:131 Resp: 112604

Ion Ratio Lower Upper

131 100

133 94.1 47.6 142.9

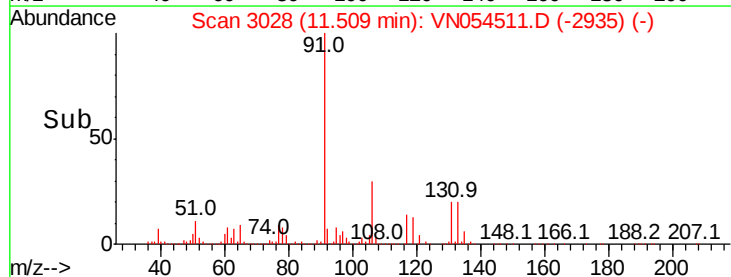
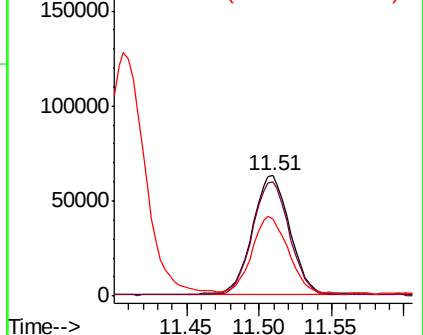
119 64.2 32.4 97.0

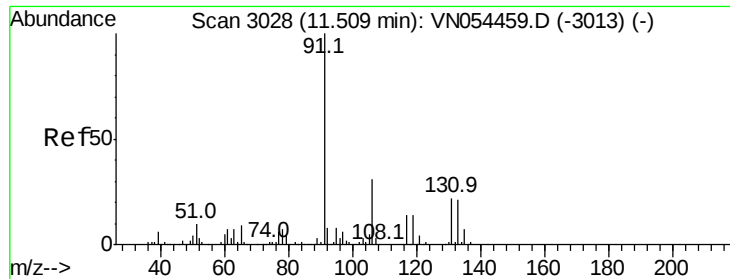


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





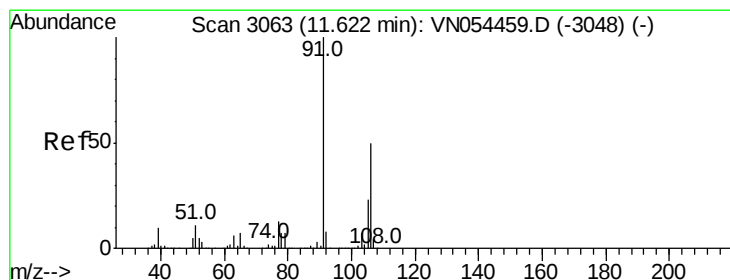
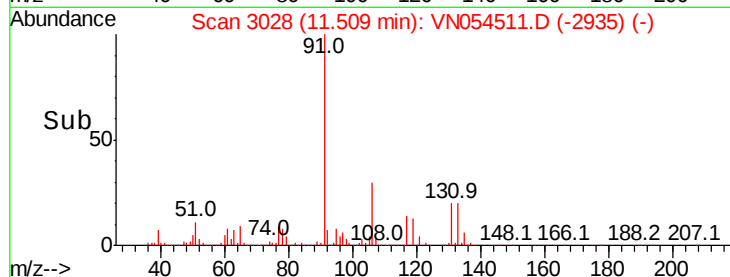
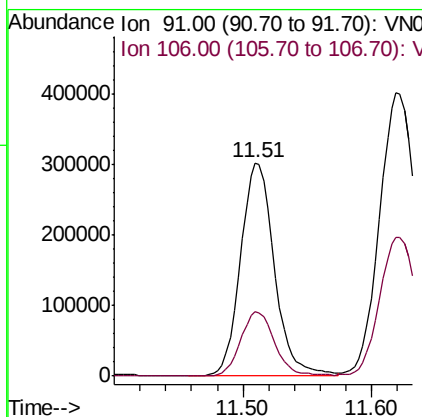
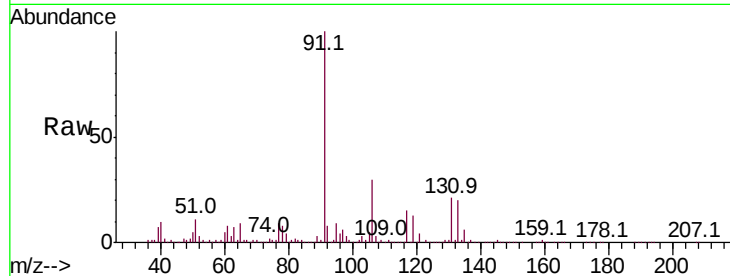
#67
Ethyl Benzene
Concen: 21.114 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampleId :
VN0321MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
106	30.1	25.5	38.3

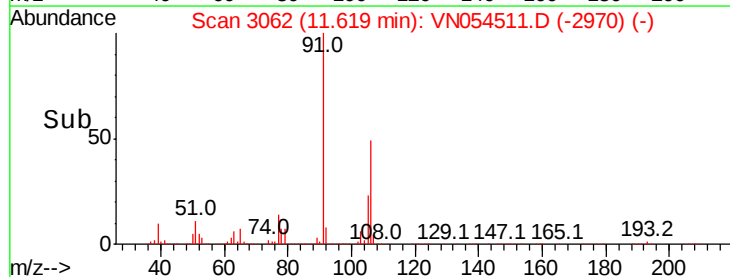
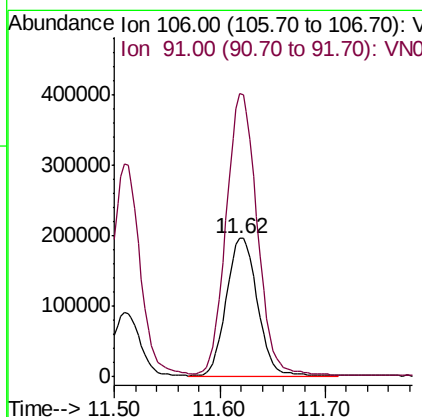
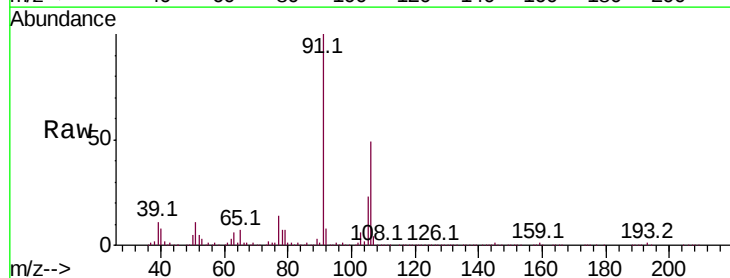
Manual Integrations
APPROVED

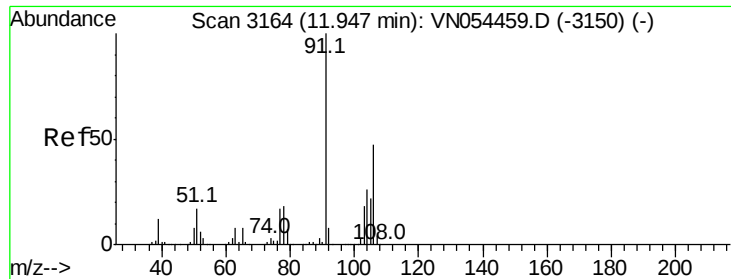
MMDadoda
3/22/2019 4:15:24 PM



#68
m/p-Xylenes
Concen: 40.662 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
106	100		
91	204.9	159.4	239.2





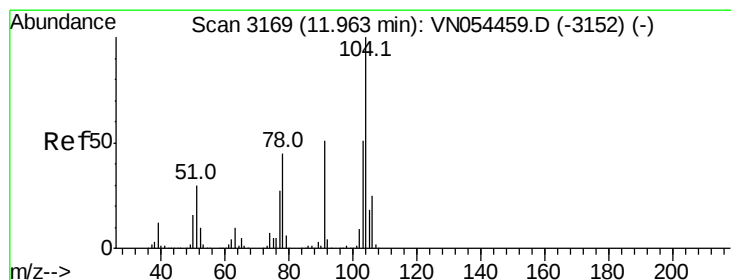
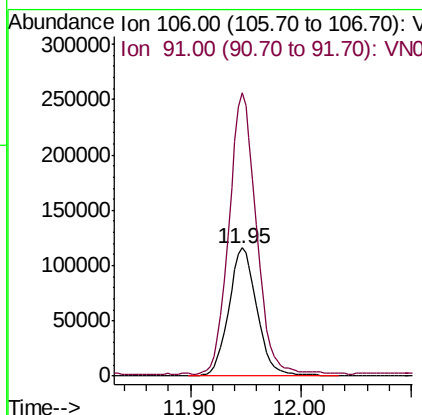
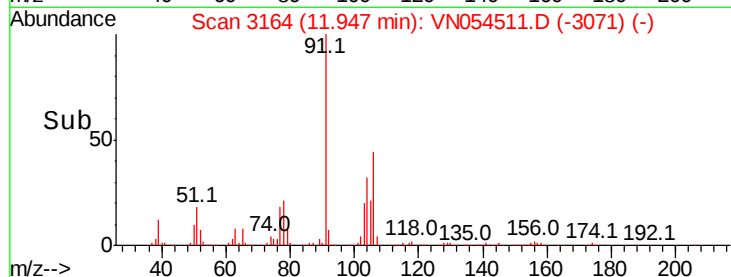
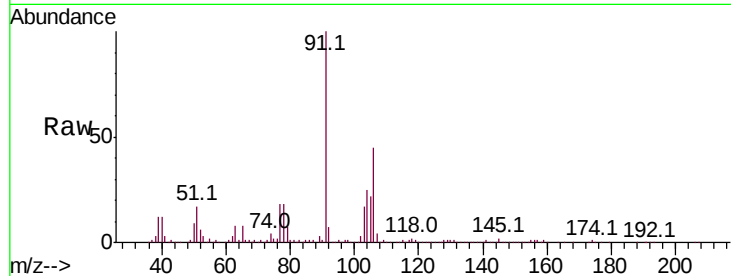
#69
o-Xylene
Concen: 21.093 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampled :
VN0321MBS01

Tot Ion:106 Resp: 202584
Ion Ratio Lower Upper
106 100
91 214.8 105.7 317.1

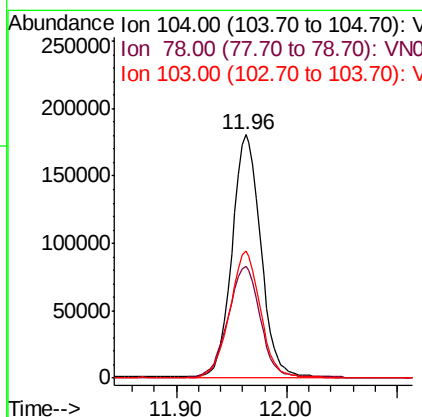
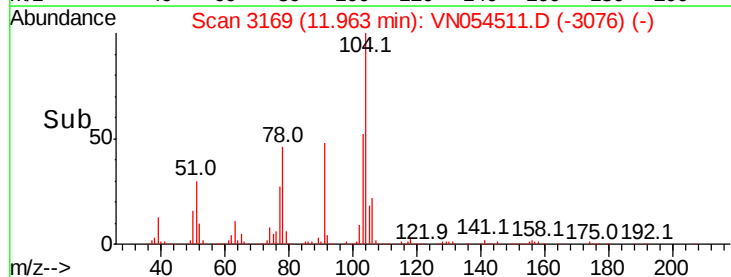
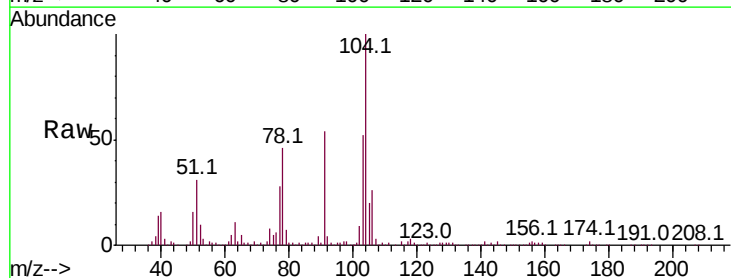
Manual Integrations
APPROVED

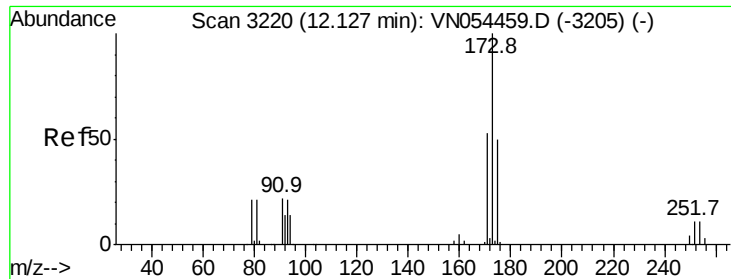
MMDadoda
3/22/2019 4:15:24 PM



#70
Styrene
Concen: 20.821 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Tgt Ion:104 Resp: 324743
Ion Ratio Lower Upper
104 100
78 51.6 38.2 57.2
103 55.6 44.4 66.6





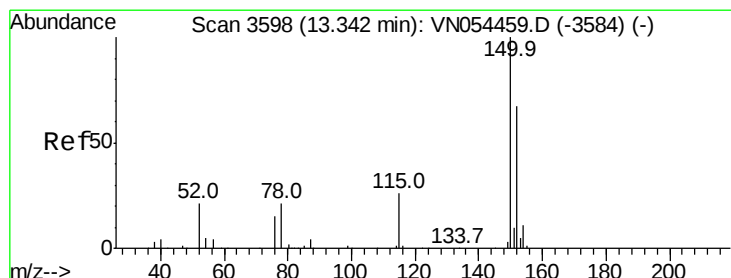
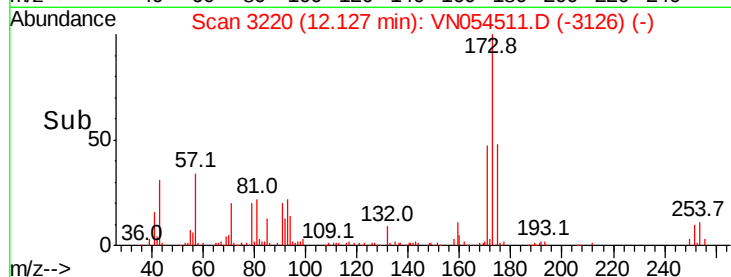
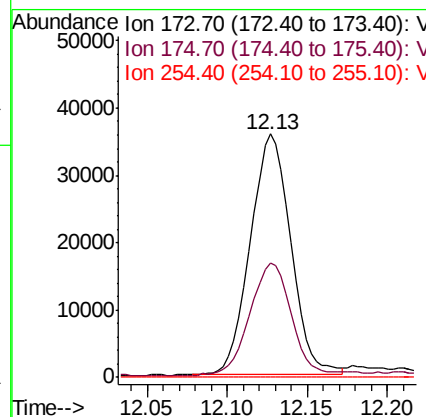
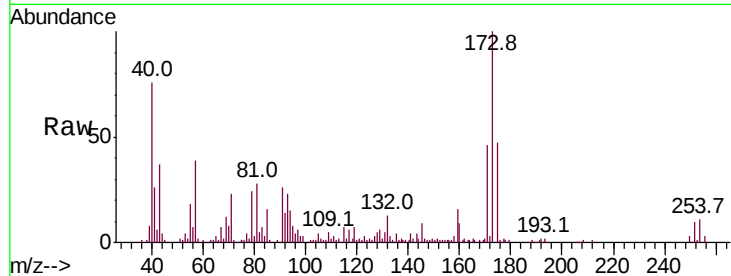
#71
Bromoform
Concen: 18.603 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampleId :
VN0321MBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.7	24.4	73.2
254	0.0	0.1	0.1#

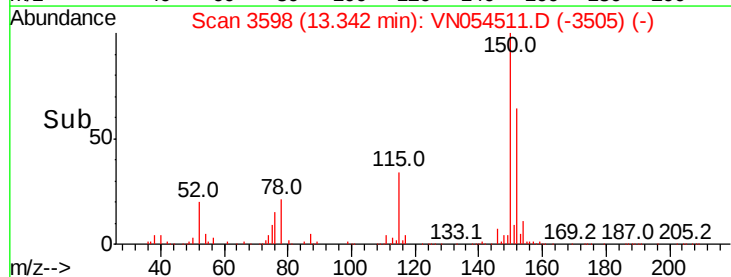
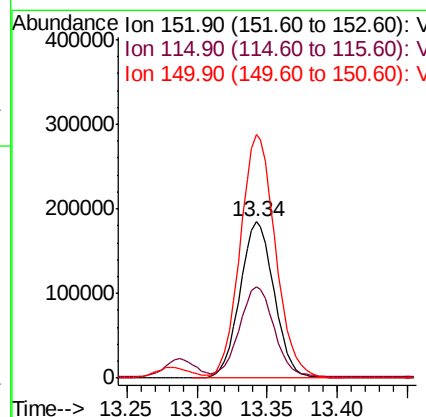
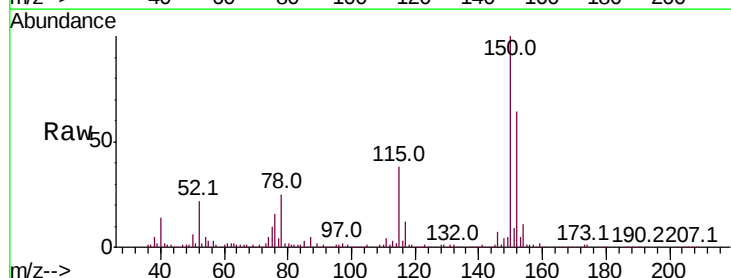
Manual Integrations
APPROVED

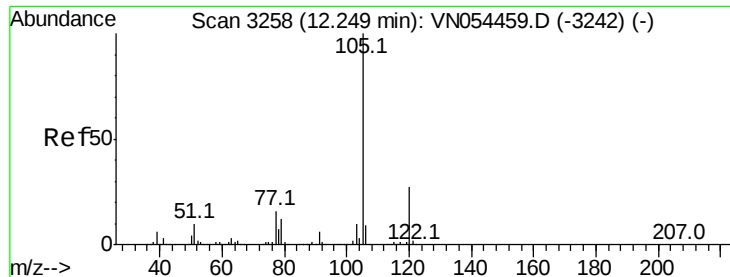
MMDadoda
3/22/2019 4:15:24 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.9	27.2	81.6
150	161.1	0.0	349.2





#73

Isopropylbenzene

Concen: 21.491 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBS01

Tot Ion:105 Resp: 539857

Ion Ratio Lower Upper

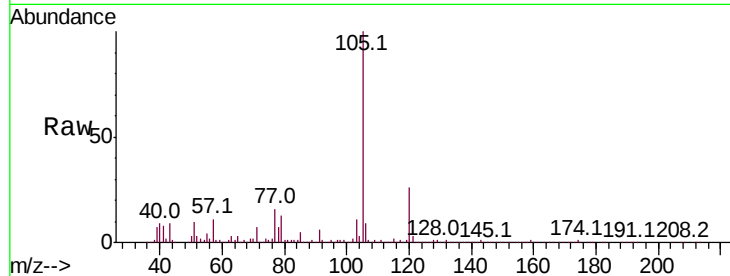
105 100

120 26.4 13.8 41.3

Manual Integrations
APPROVED

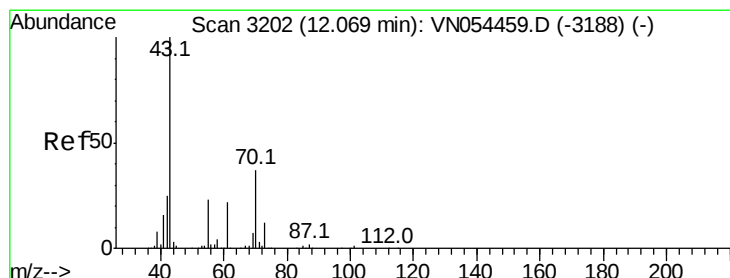
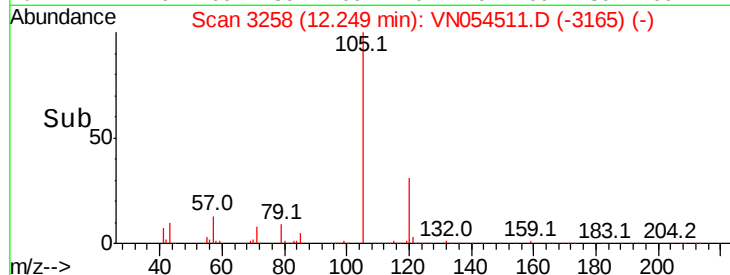
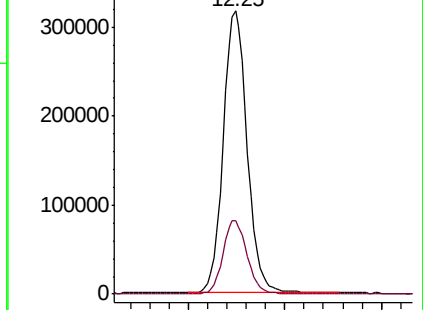
MMDadoda

3/22/2019 4:15:24 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 22.590 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Tgt Ion: 43 Resp: 163167

Ion Ratio Lower Upper

43 100

70 37.6 35.4 53.0

55 24.0 19.8 29.6

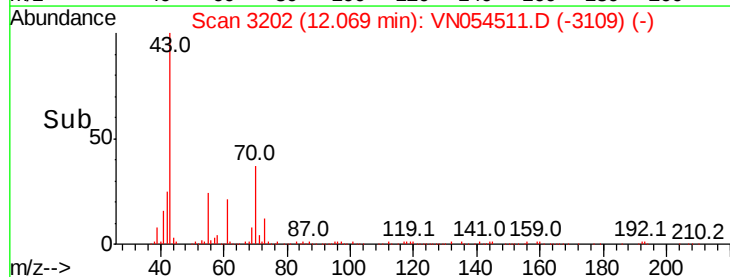
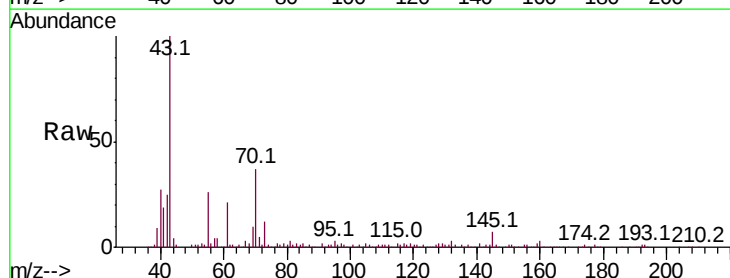
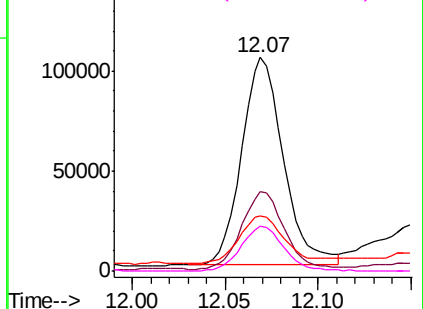
61 22.2 19.8 29.6

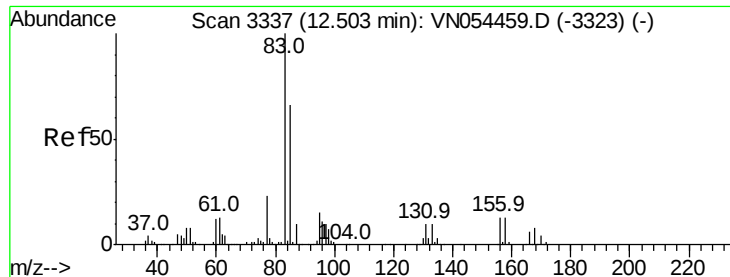
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#75

1,1,2,2-Tetrachloroethane

Concen: 22.108 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampled :

VN0321MBS01

Tot Ion: 83 Resp: 126774

Ion Ratio Lower Upper

83 100

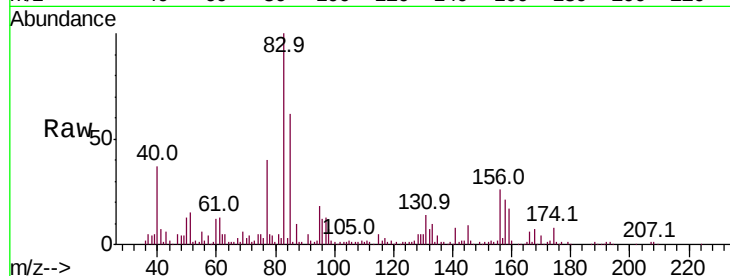
131 18.2 5.8 17.4#

85 63.1 32.2 96.6

Manual Integrations
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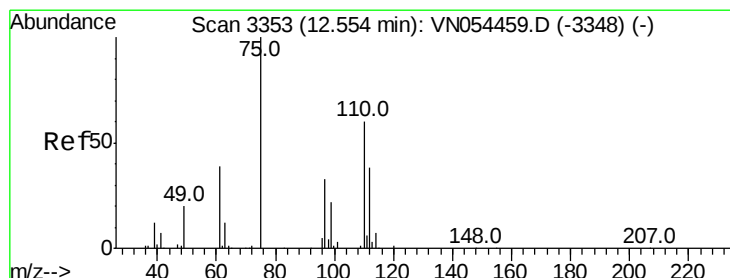
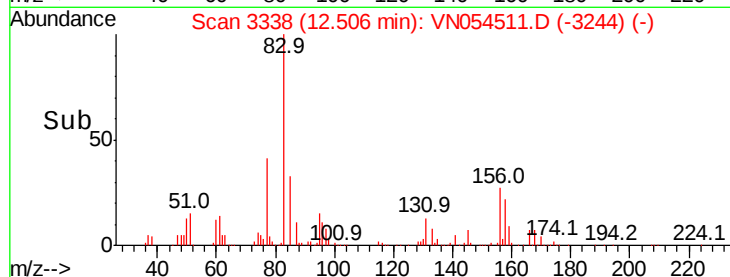
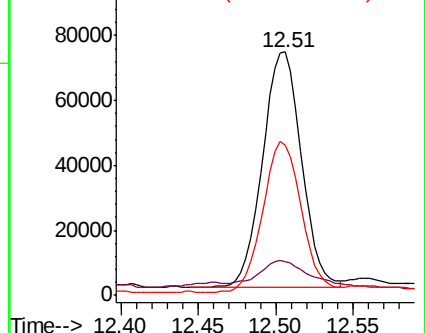
3/22/2019 4:15:24 PM



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 22.894 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN054511.D

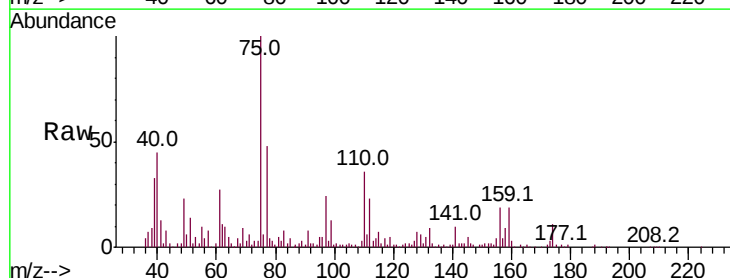
Acq: 21 Mar 2019 15:15

Tgt Ion: 75 Resp: 113250

Ion Ratio Lower Upper

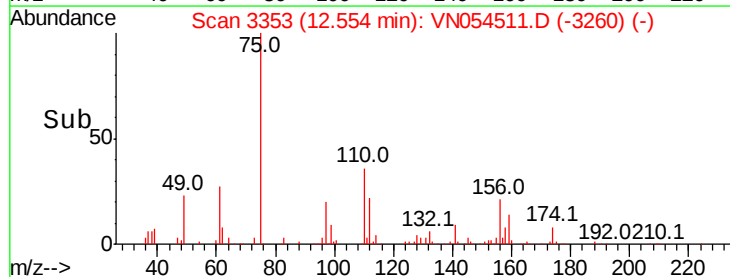
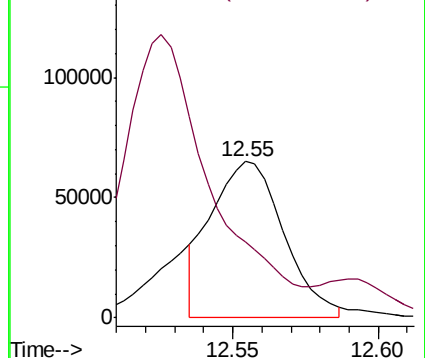
75 100

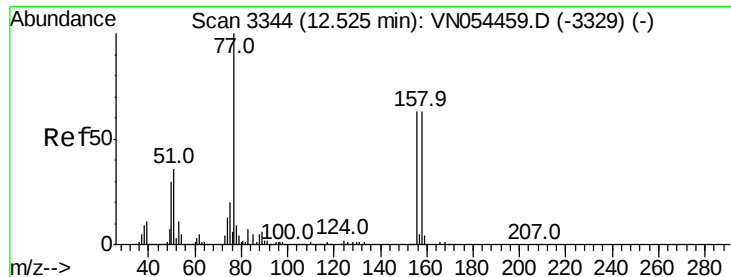
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 27.586 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

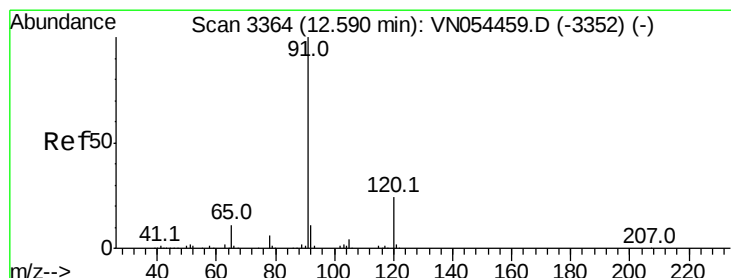
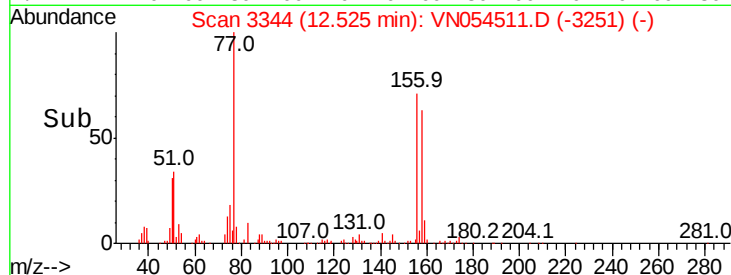
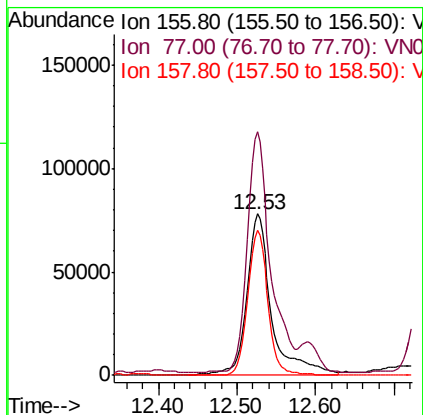
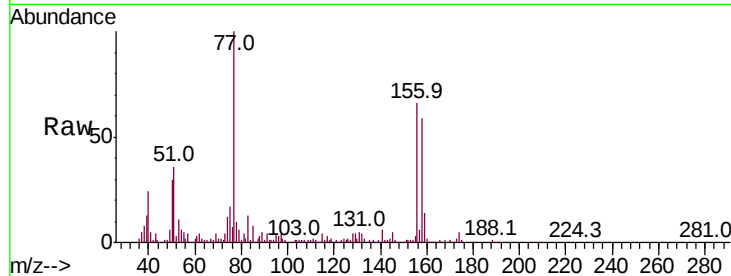
ClientSampleId :

VN0321MBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	141.4	81.5	244.4
158	72.5	49.0	147.2

Manual Integrations
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#78

n-propylbenzene

Concen: 20.869 ug/l

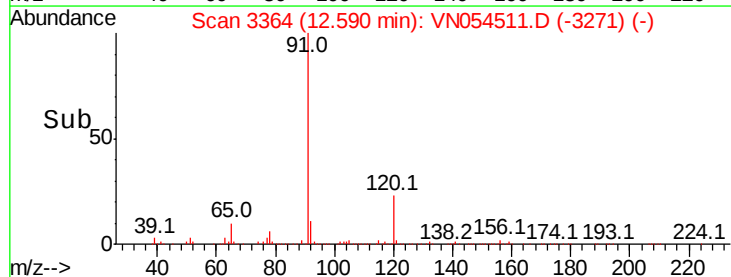
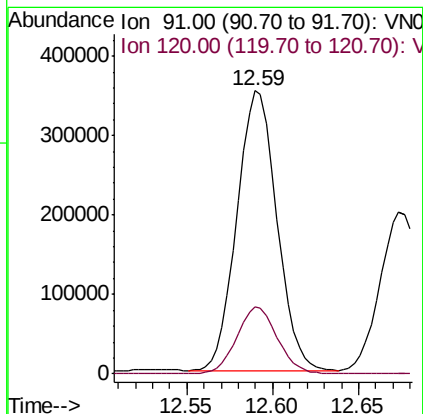
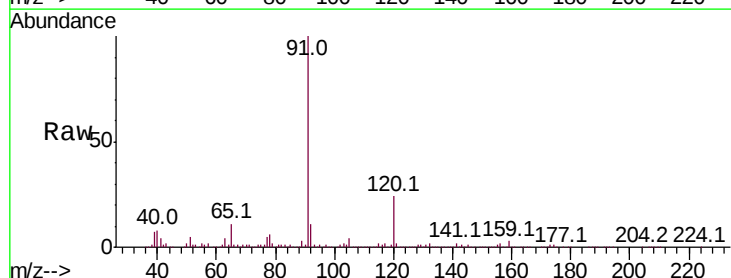
RT: 12.59 min Scan# 3364

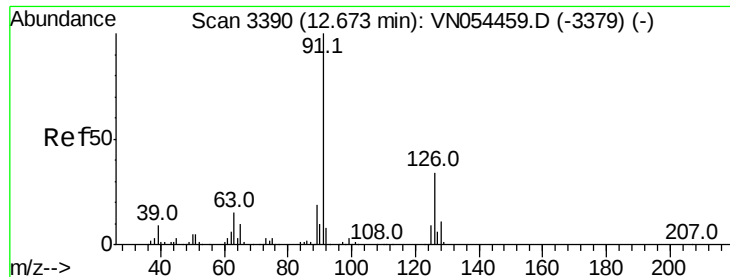
Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.9	12.3	36.9





#79

2-Chlorotoluene

Concen: 20.001 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBS01

Tot Ion: 91 Resp: 339748

Ion Ratio Lower Upper

91 100

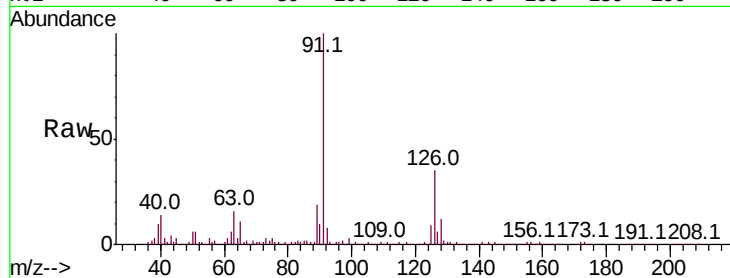
126 35.7 18.7 56.1

Manual Integrations

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

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

12.67

200000

150000

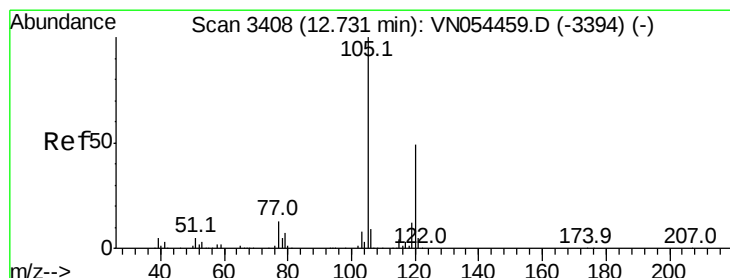
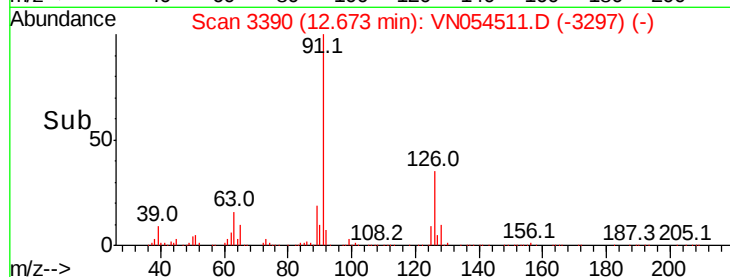
100000

50000

0

12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.539 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054511.D

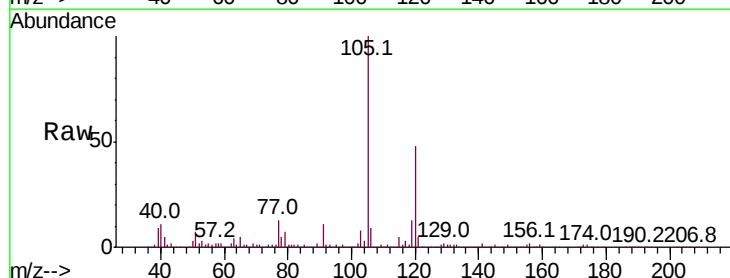
Acq: 21 Mar 2019 15:15

Tgt Ion:105 Resp: 443442

Ion Ratio Lower Upper

105 100

120 47.5 25.0 75.0



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

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

12.73

300000

250000

200000

150000

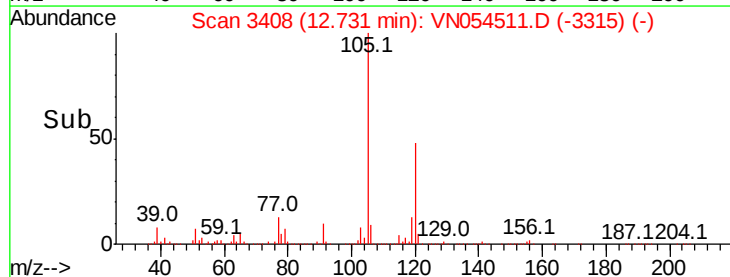
100000

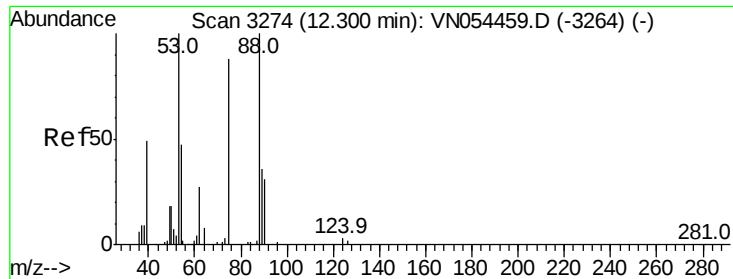
50000

0

12.70 12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 18.475 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

VN0321MBS01

Tot Ion: 75 Resp: 23446

Ion Ratio Lower Upper

75 100

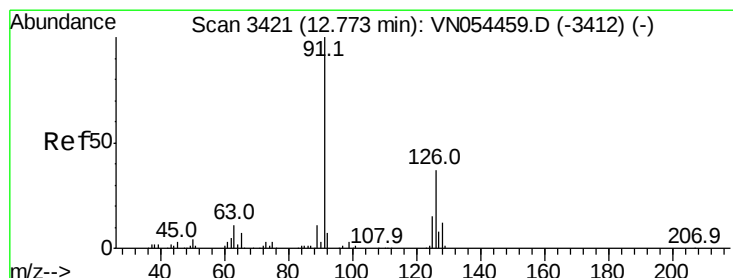
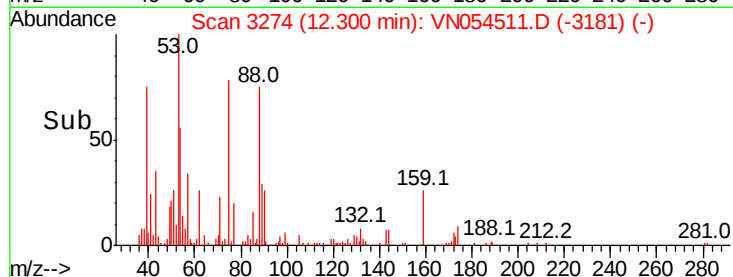
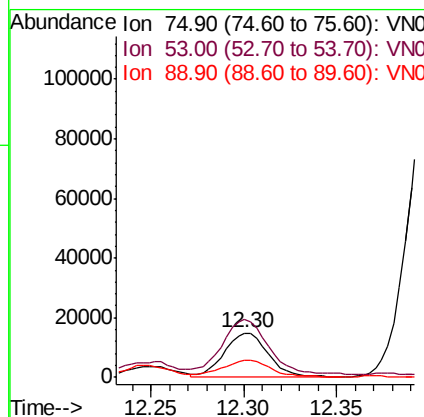
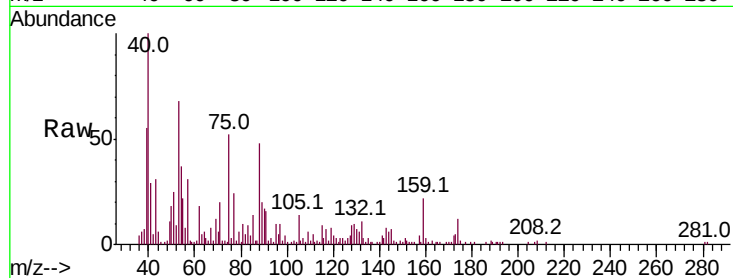
53 136.5 76.2 114.2#

89 42.2 39.2 58.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.806 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN054511.D

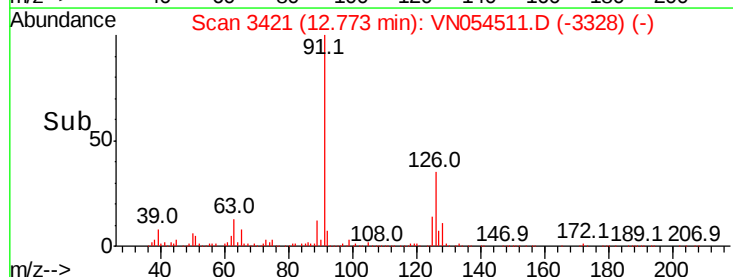
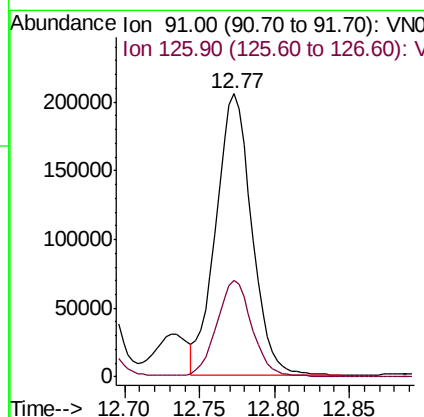
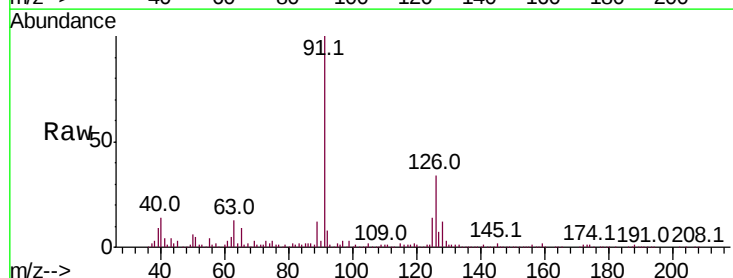
Acq: 21 Mar 2019 15:15

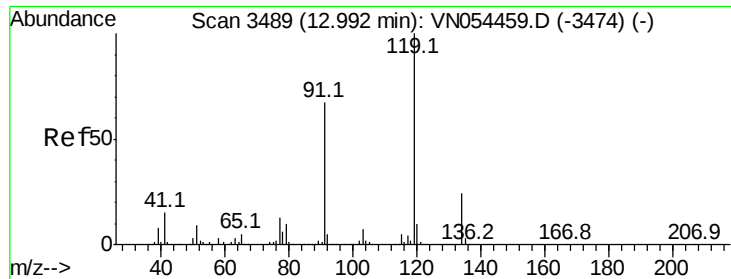
Tgt Ion: 91 Resp: 342576

Ion Ratio Lower Upper

91 100

126 33.8 18.1 54.1





#83

tert-Butylbenzene

Concen: 21.093 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

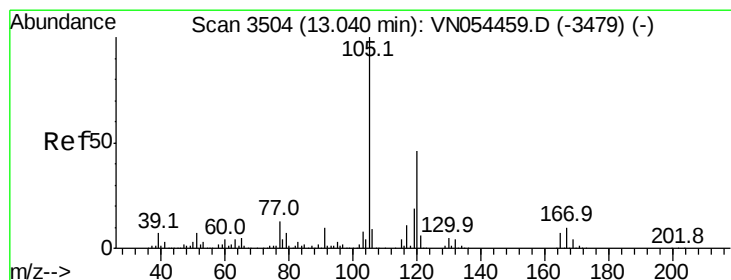
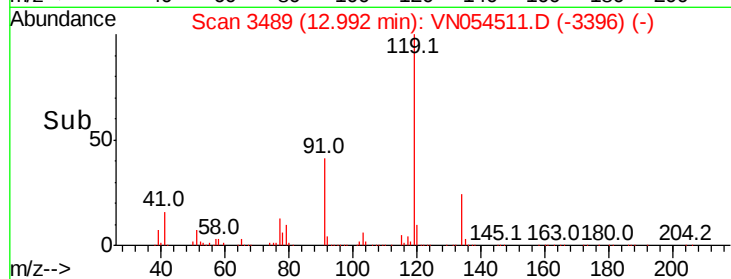
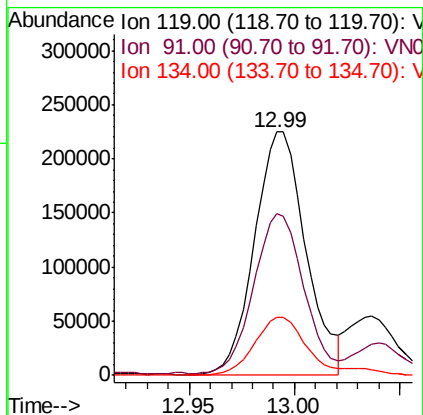
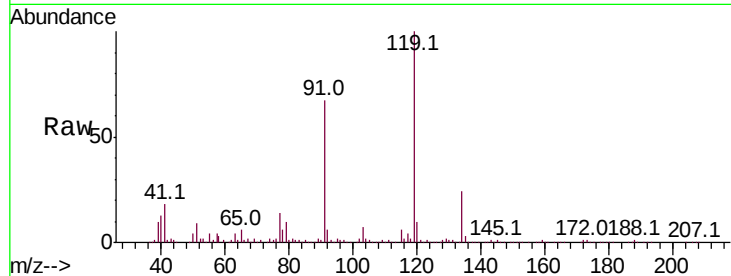
ClientSampleId :

VN0321MBS01

Tot Ion:	119	Resp:	378001
Ion Ratio	Lower	Upper	
119	100		
91	64.1	30.9	92.8
134	25.7	13.2	39.6

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 21.038 ug/l

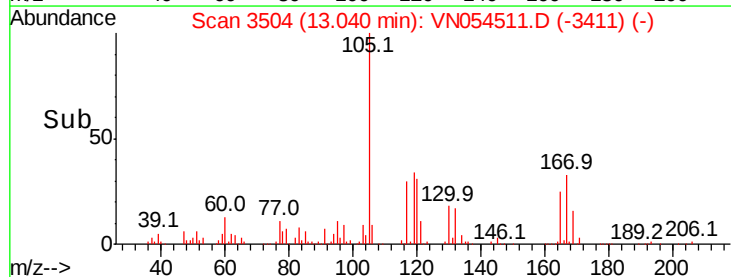
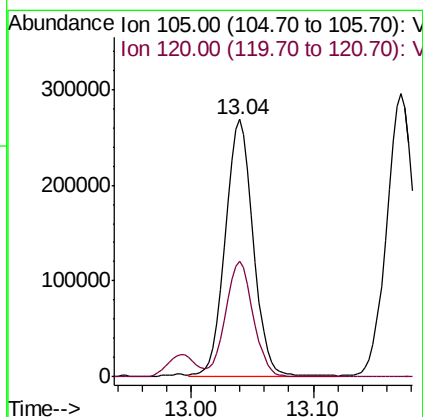
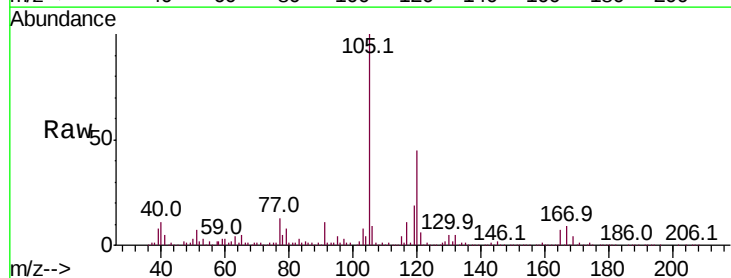
RT: 13.04 min Scan# 3504

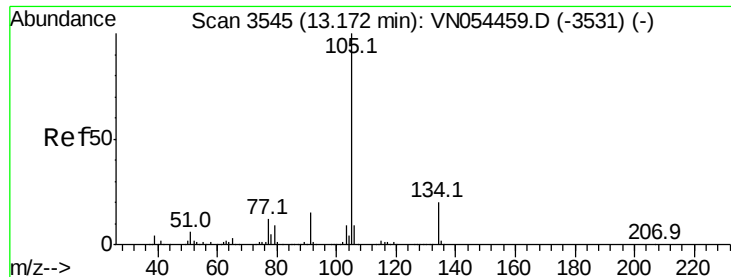
Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Tgt Ion:	105	Resp:	424998
Ion Ratio	Lower	Upper	
105	100		
120	44.9	23.4	70.3





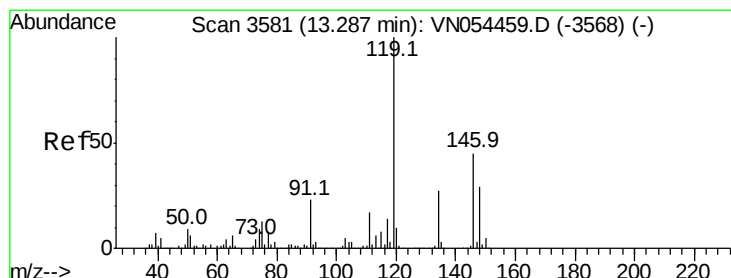
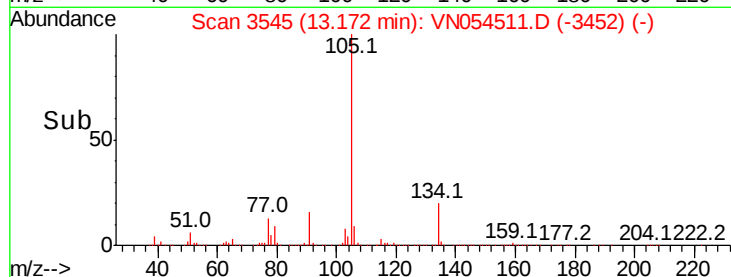
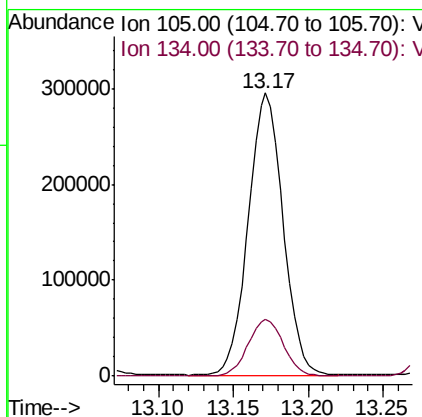
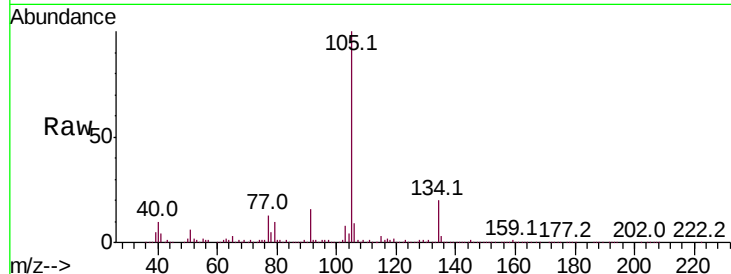
#85
 sec-Butylbenzene
 Concen: 21.260 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN054511.D
 Acq: 21 Mar 2019 15:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321MBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.7	32.1

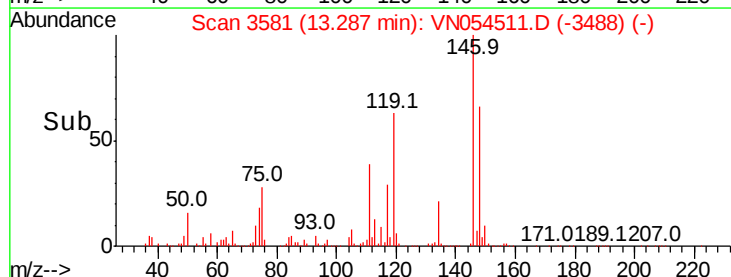
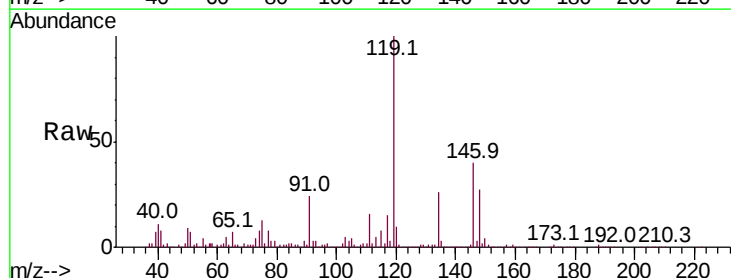
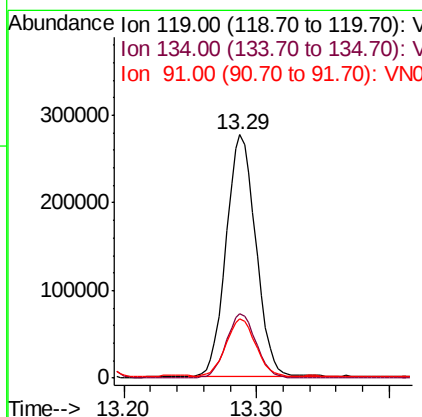
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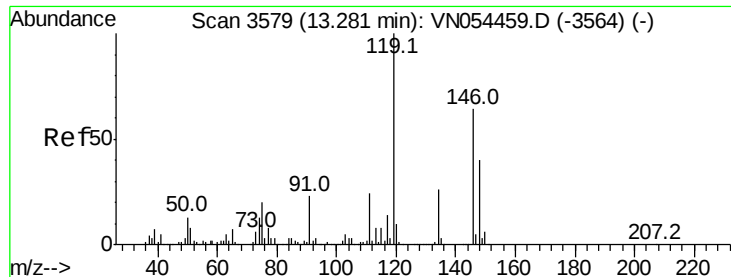
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#86
 p-Isopropyltoluene
 Concen: 21.496 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN054511.D
 Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.6	40.8
91	23.4	11.1	33.3





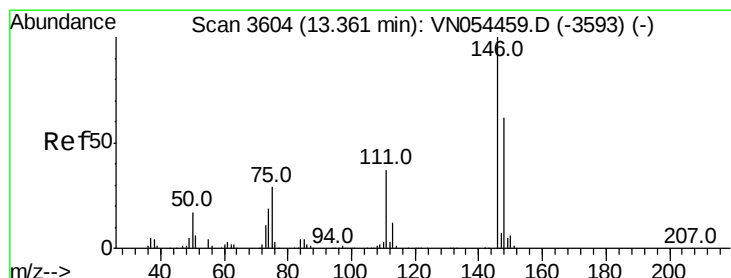
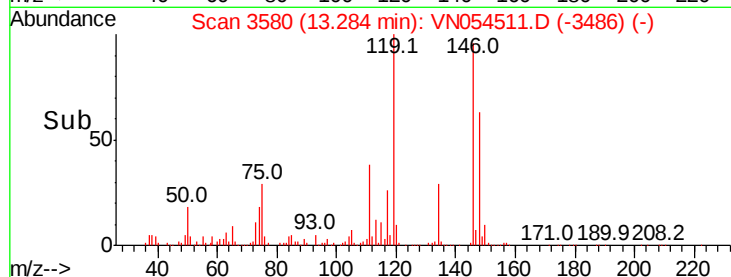
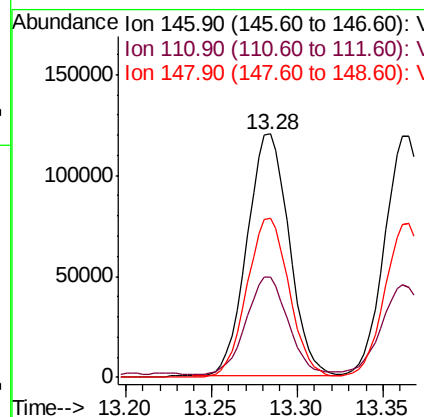
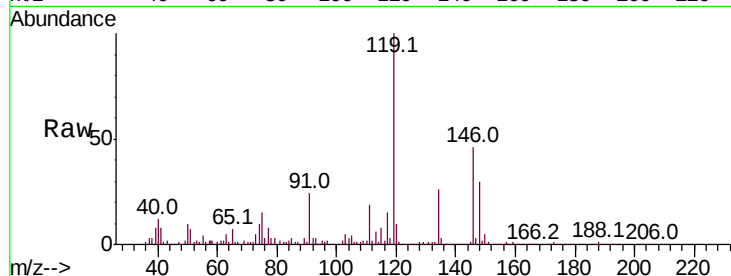
#87
 1,3-Dichlorobenzene
 Concen: 19.810 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054511.D
 Acq: 21 Mar 2019 15:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.9	18.8	56.3
148	65.7	32.2	96.6

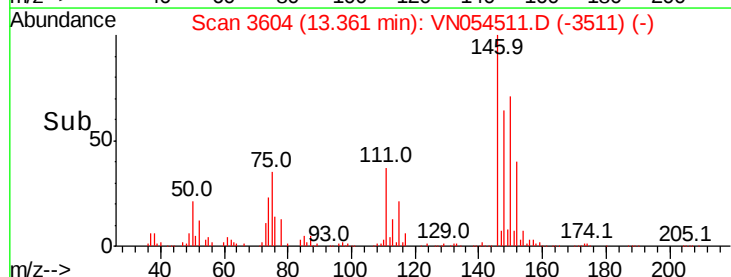
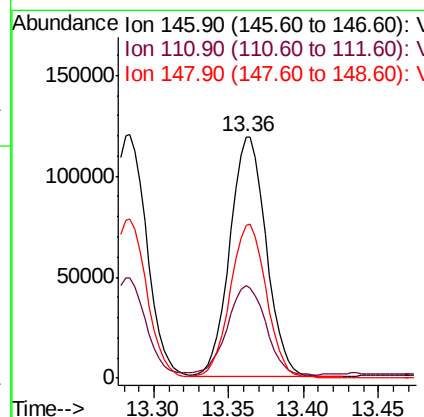
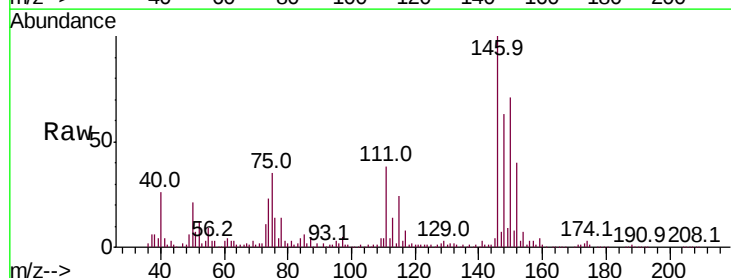
Manual Integrations
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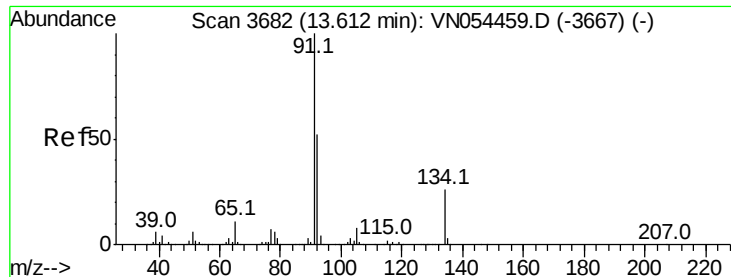
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#88
 1,4-Dichlorobenzene
 Concen: 20.088 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN054511.D
 Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.1	18.1	54.1
148	64.4	32.0	96.0





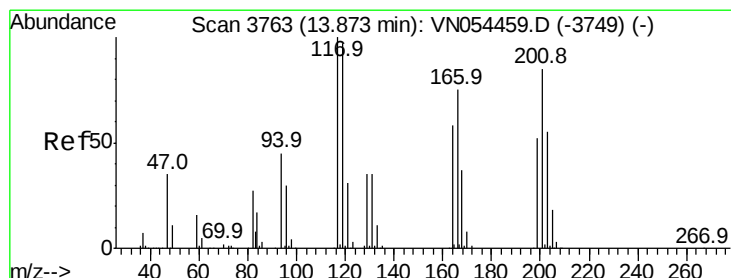
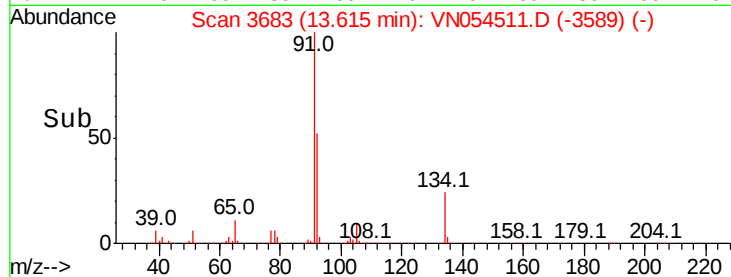
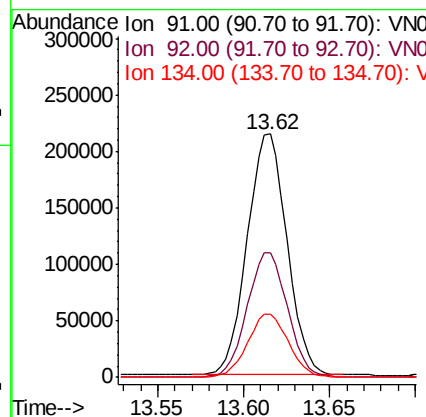
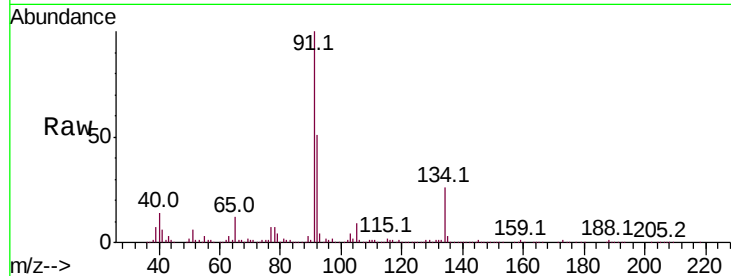
#89
n-Butylbenzene
Concen: 21.786 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Instrument :
MSVOA_N
ClientSampleId :
VN0321MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.2	78.6
134	26.8	14.3	42.9

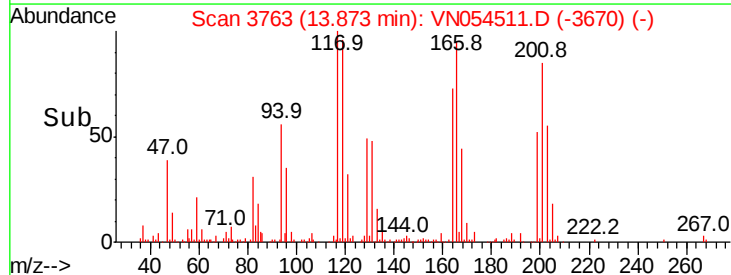
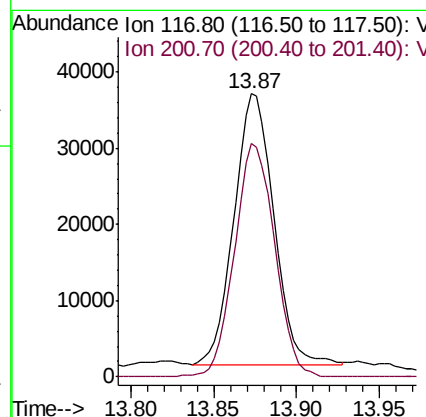
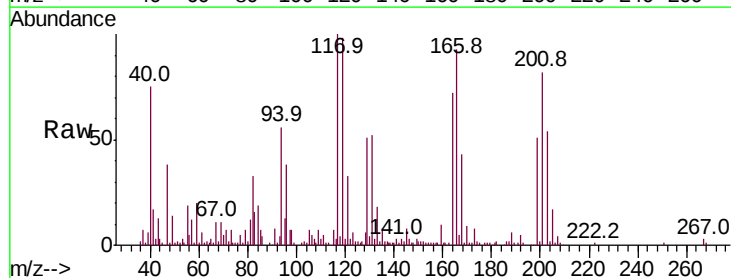
Manual Integrations
APPROVED

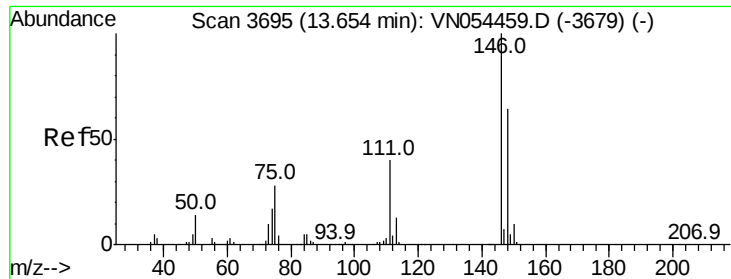
MMDadoda
3/22/2019 4:15:24 PM



#90
Hexachloroethane
Concen: 19.074 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN054511.D
Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
117	100		
201	87.2	48.1	144.4





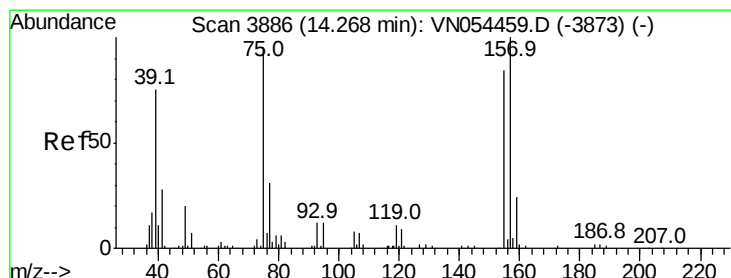
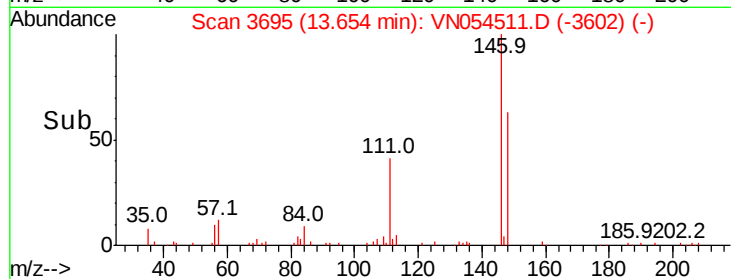
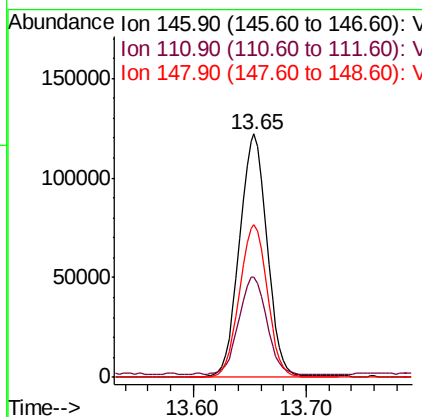
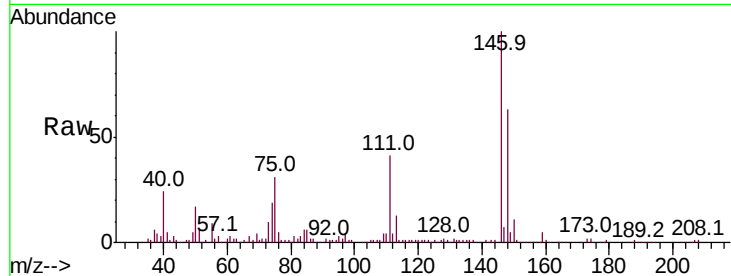
#91
 1,2-Dichlorobenzene
 Concen: 20.745 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN054511.D
 Acq: 21 Mar 2019 15:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.0	19.1	57.3
148	63.2	32.4	97.0

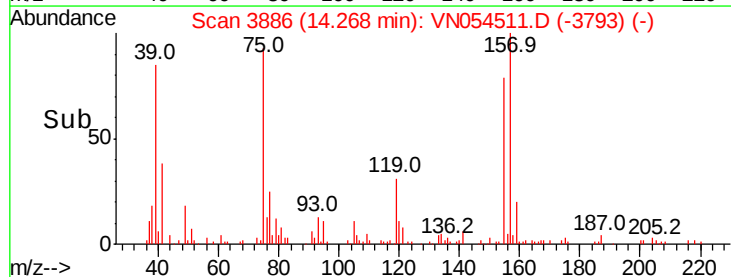
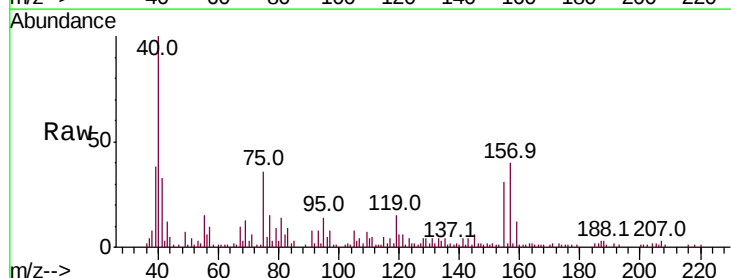
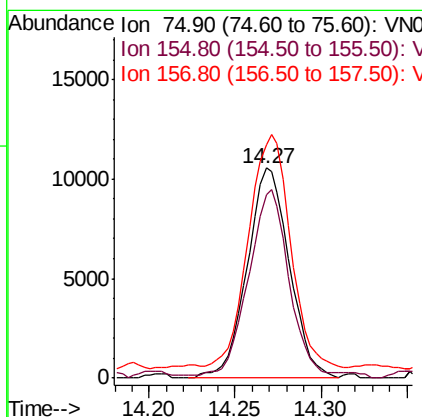
Manual Integrations
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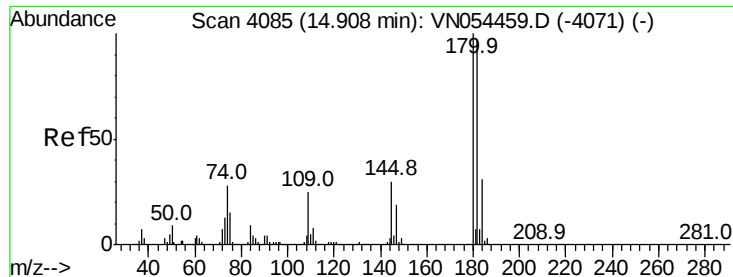
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.408 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN054511.D
 Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.5	50.1	150.3
157	110.4	63.1	189.3





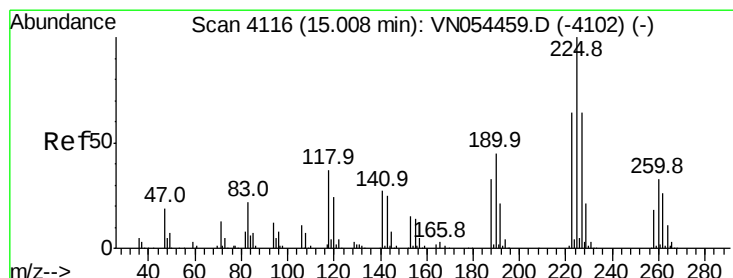
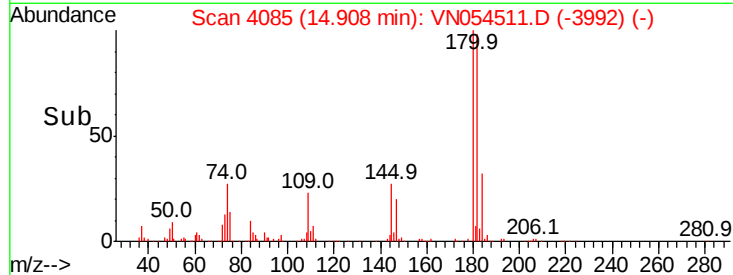
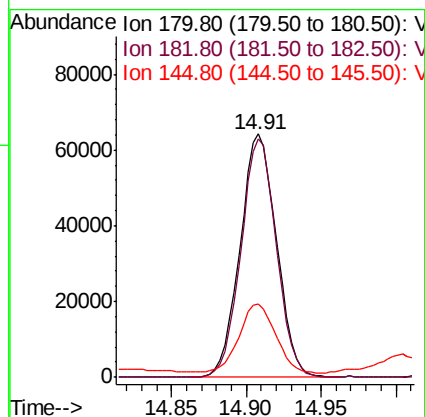
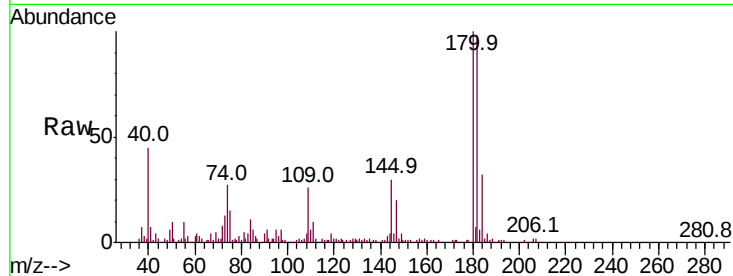
#93
 1,2,4-Trichlorobenzene
 Concen: 21.827 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN054511.D
 Acq: 21 Mar 2019 15:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321MBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.4	48.0	144.2	
145	28.0	14.2	42.8	

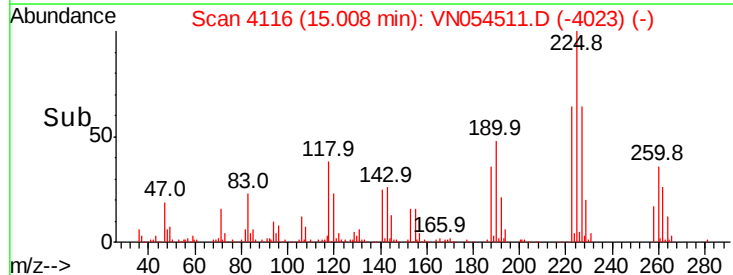
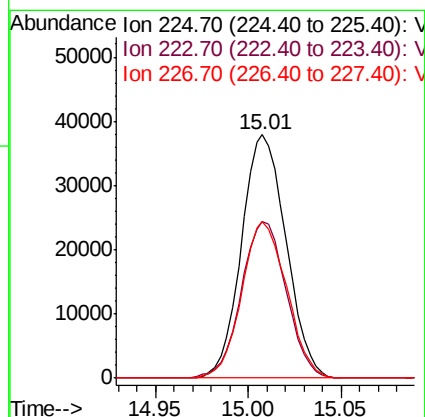
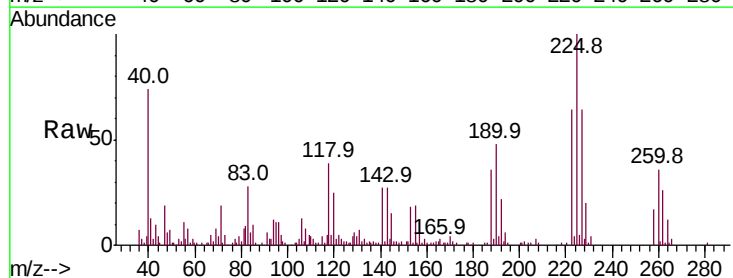
Manual Integrations
 APPROVED

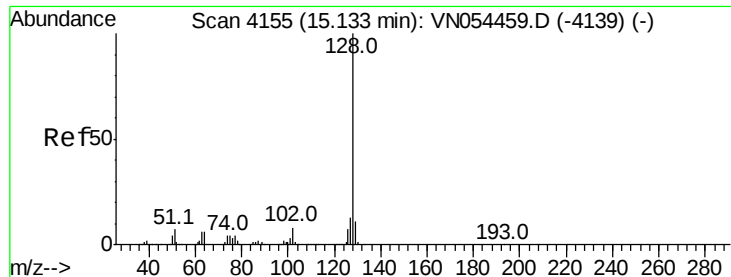
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#94
 Hexachlorobutadiene
 Concen: 21.107 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN054511.D
 Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	64.8	31.1	93.5	
227	64.9	31.9	95.9	





#95

Naphthalene

Concen: 22.965 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Instrument :

MSVOA_N

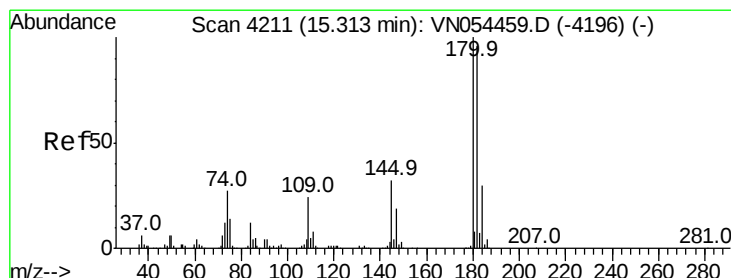
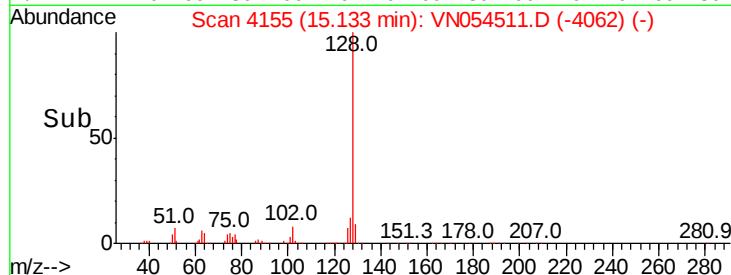
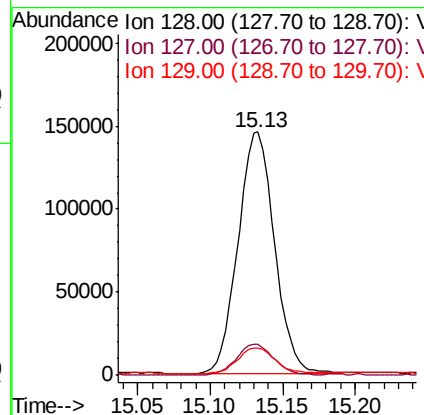
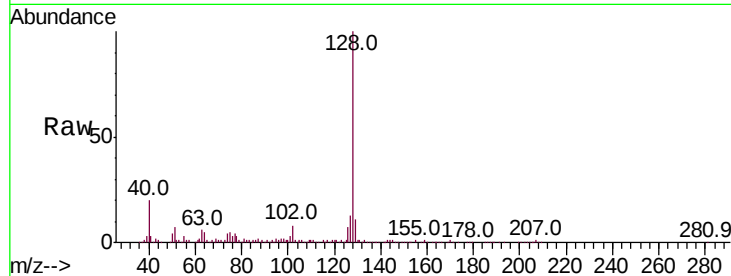
ClientSampleId :

VN0321MBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	255363		
127	12.9	10.1	15.1	
129	11.2	8.7	13.1	

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 21.947 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN054511.D

Acq: 21 Mar 2019 15:15

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	108890		
182	95.7	47.5	142.6	
145	32.0	14.8	44.3	

