

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022519\
 Data File : VN053926.D
 Acq On : 25 Feb 2019 13:30
 Operator : JC/SP
 Sample : VSTDIC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 2/28/2019 10:48:11 AM

Quant Time: Feb 28 04:19:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 28 02:58:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	681562	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1067192	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	962097	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	461052	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	764696	95.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	191.42%	
35) Dibromofluoromethane	7.59	113	685552	99.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	198.68%	
50) Toluene-d8	10.09	98	2602986	101.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	202.64%	
62) 4-Bromofluorobenzene	12.40	95	893490	104.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	208.78%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	602483	96.050	ug/l	99
3) Chloromethane	2.06	50	843662	96.966	ug/l	100
4) Vinyl Chloride	2.19	62	838622	96.199	ug/l	99
5) Bromomethane	2.56	94	513324	88.911	ug/l	99
6) Chloroethane	2.70	64	502608	92.704	ug/l	99
7) Trichlorofluoromethane	3.02	101	1037966	93.201	ug/l	100
8) Diethyl Ether	3.41	74	414041	99.231	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.76	101	657310	93.450	ug/l	95
10) Methyl Iodide	3.95	142	1014505	109.767	ug/l	99
11) Tert butyl alcohol	4.78	59	247281	488.233	ug/l	99
12) 1,1-Dichloroethene	3.74	96	650400	96.670	ug/l	94
13) Acrolein	3.60	56	308996	589.259	ug/l	98
14) Allyl chloride	4.32	41	1193816	101.167	ug/l	97
15) Acrylonitrile	4.98	53	1345894	504.192	ug/l	99
16) Acetone	3.81	43	1056271	450.847	ug/l	96
17) Carbon Disulfide	4.05	76	2063125	95.053	ug/l	100
18) Methyl Acetate	4.32	43	531204	95.087	ug/l	95
19) Methyl tert-butyl Ether	5.04	73	1837077	101.785	ug/l	98
20) Methylene Chloride	4.55	84	739461	93.516	ug/l	92
21) trans-1,2-Dichloroethene	5.04	96	703483	96.606	ug/l	94
22) Diisopropyl ether	5.95	45	2362220	103.763	ug/l	97
23) Vinyl Acetate	5.89	43	8730933	533.119	ug/l	96
24) 1,1-Dichloroethane	5.85	63	1339136	95.922	ug/l	99
25) 2-Butanone	6.83	43	1574563	501.926	ug/l	98
26) 2,2-Dichloropropane	6.82	77	979318	98.736	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	799919	98.774	ug/l	95
28) Bromochloromethane	7.19	49	618609	96.806	ug/l	84
29) Tetrahydrofuran	7.21	42	1045889	500.650	ug/l	92
30) Chloroform	7.37	83	1307004	96.550	ug/l	98
31) Cyclohexane	7.65	56	1269982	85.429	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	1094799	98.085	ug/l	98
36) 1,1-Dichloropropene	7.79	75	1033299	104.116	ug/l	97
37) Ethyl Acetate	6.93	43	696132	98.235	ug/l	97
38) Carbon Tetrachloride	7.77	117	969121	93.891	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1235478	103.284	ug/l	96
40) Benzene	8.04	78	3068911	100.658	ug/l	100
41) Methacrylonitrile	7.17	41	382259	83.772	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	947891	100.422	ug/l	97
43) Isopropyl Acetate	8.16	43	1228339	102.661	ug/l	96
44) Trichloroethene	8.83	130	807090	99.852	ug/l	96
45) 1,2-Dichloropropane	9.12	63	821402	99.859	ug/l	98
46) Dibromomethane	9.21	93	472579	98.960	ug/l	94
47) Bromodichloromethane	9.40	83	1017254	101.080	ug/l	99
48) Methyl methacrylate	9.20	41	606285	110.163	ug/l	94
49) 1,4-Dioxane	9.20	88	152705	2048.593	ug/l	94
51) 4-Methyl-2-Pentanone	9.98	43	3335375	542.479	ug/l	96
52) Toluene	10.16	92	1850848	103.096	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	1082371	110.535	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	1231751	106.703	ug/l	95
55) 1,1,2-Trichloroethane	10.56	97	672375	100.286	ug/l	99
56) Ethyl methacrylate	10.43	69	895760	114.192	ug/l	92
57) 1,3-Dichloropropane	10.71	76	1160095	102.407	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	2053982	592.988	ug/l	96
59) 2-Hexanone	10.75	43	2195831	549.121	ug/l	95
60) Dibromochloromethane	10.90	129	769958	103.333	ug/l	100
61) 1,2-Dibromoethane	11.00	107	663605	102.604	ug/l	100
64) Tetrachloroethene	10.63	164	761918	93.523	ug/l	98
65) Chlorobenzene	11.43	112	2006930	98.840	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	733796	100.274	ug/l	100
67) Ethyl Benzene	11.51	91	3505960	102.997	ug/l	99
68) m/p-Xylenes	11.62	106	2667083	207.599	ug/l	97
69) o-Xylene	11.95	106	1286628	101.924	ug/l	98
70) Styrene	11.96	104	2118674	109.119	ug/l	99
71) Bromoform	12.13	173	537361	105.552	ug/l #	100
73) Isopropylbenzene	12.25	105	3367016	93.815	ug/l	99
74) N-amyl acetate	12.07	43	997140	106.005	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.50	83	829958	92.476	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	688726m	93.120	ug/l	
77) Bromobenzene	12.53	156	866272	95.068	ug/l	91
78) n-propylbenzene	12.59	91	3973921	97.362	ug/l	98
79) 2-Chlorotoluene	12.68	91	2324522	94.804	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	2842500	96.744	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	244785	104.606	ug/l	96
82) 4-Chlorotoluene	12.77	91	2367361	97.691	ug/l	97
83) tert-Butylbenzene	12.99	119	2494063	95.976	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	2914740	99.367	ug/l	99
85) sec-Butylbenzene	13.17	105	3389679	95.503	ug/l	99
86) p-Isopropyltoluene	13.29	119	2958672	98.606	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	1542939	97.883	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	1515092	99.071	ug/l	99
89) n-Butylbenzene	13.62	91	2649748	104.787	ug/l	99
90) Hexachloroethane	13.88	117	548245	94.291	ug/l	94
91) 1,2-Dichlorobenzene	13.65	146	1482651	97.166	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	123411	97.305	ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	862057	119.014	ug/l	98
94) Hexachlorobutadiene	15.01	225	502581	91.181	ug/l	99
95) Naphthalene	15.13	128	1856892	123.786	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	818046	112.477	ug/l	99

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

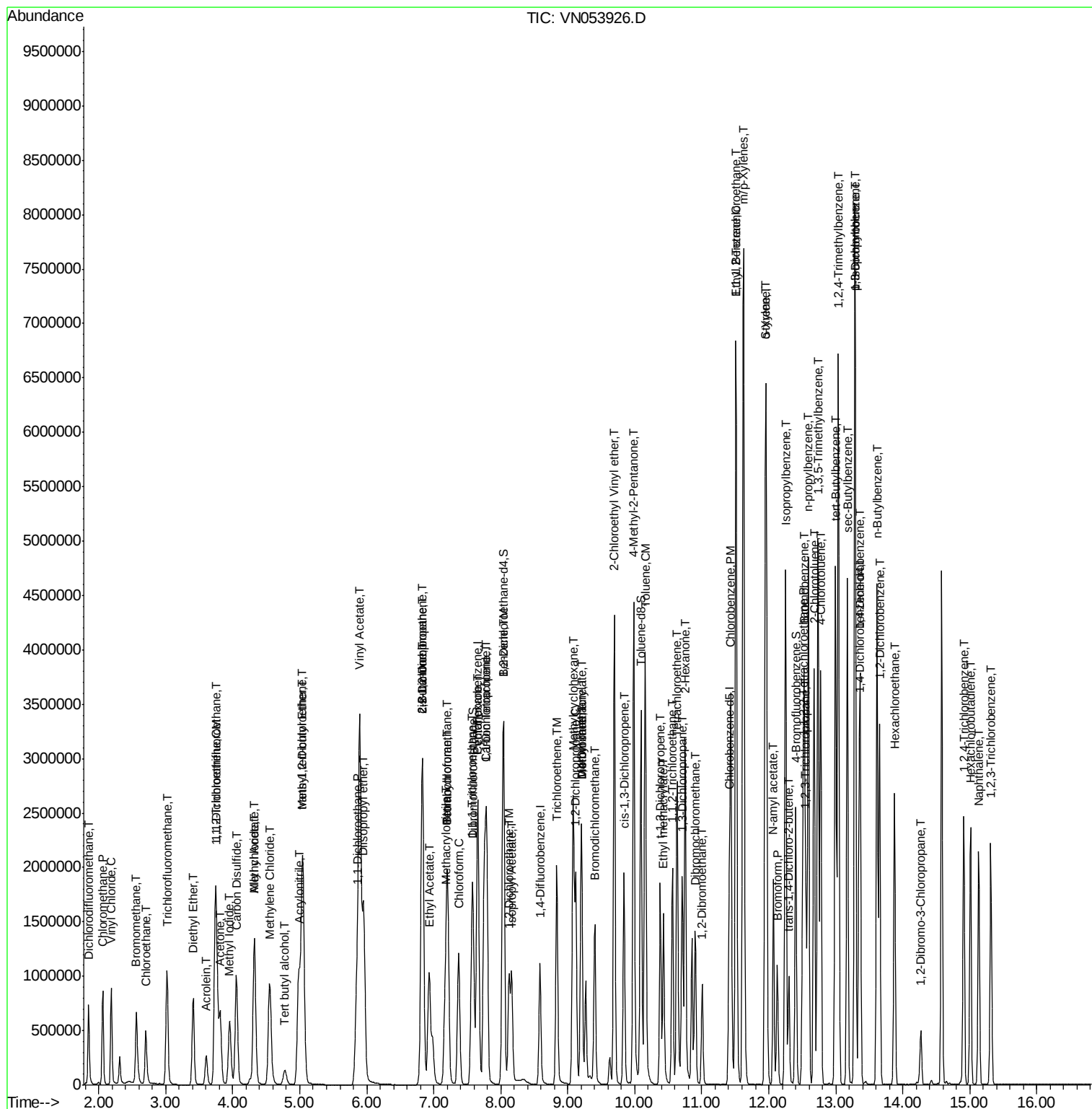
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 Data File : VN053926.D
 Acq On : 25 Feb 2019 13:30
 Operator : JC/SP
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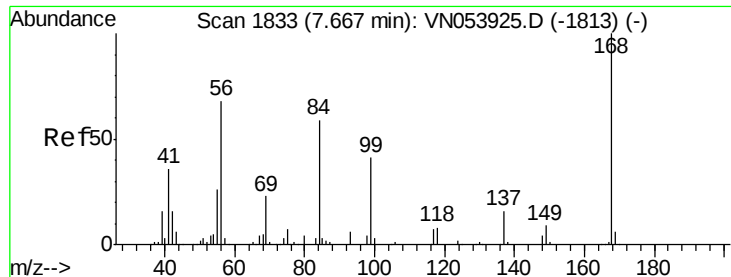
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

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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: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:168 Resp: 681562

Ion Ratio Lower Upper

168 100

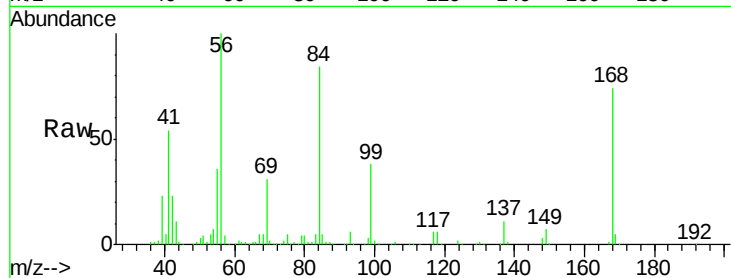
99 50.5 36.9 55.3

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

300000

250000

200000

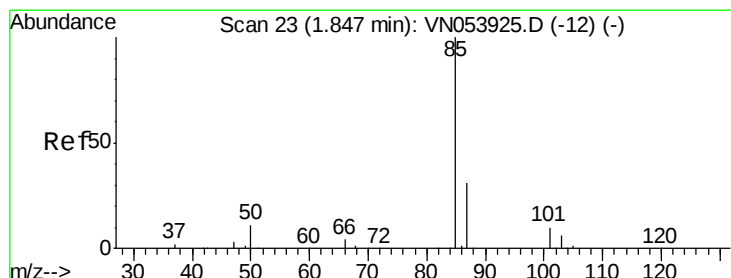
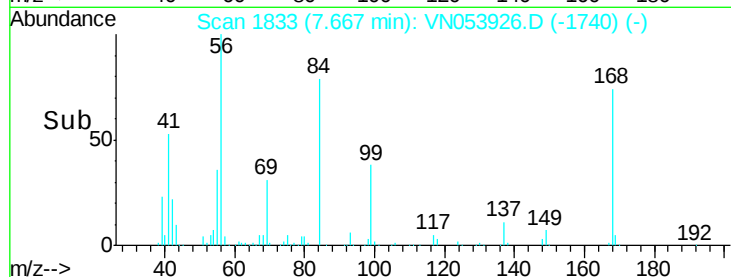
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 96.050 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN053926.D

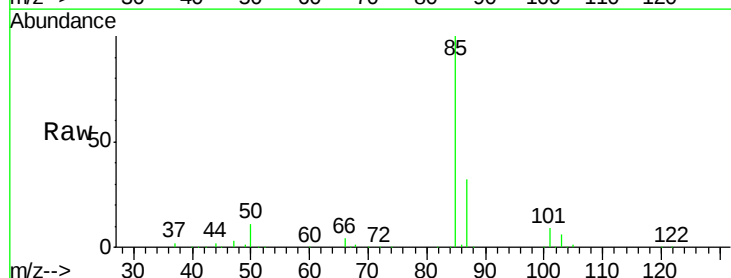
Acq: 25 Feb 2019 13:30

Tgt Ion: 85 Resp: 602483

Ion Ratio Lower Upper

85 100

87 32.1 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

500000

400000

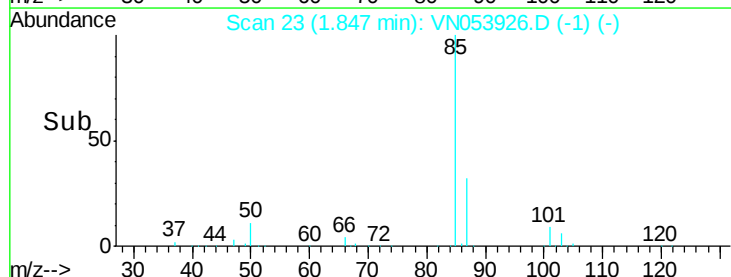
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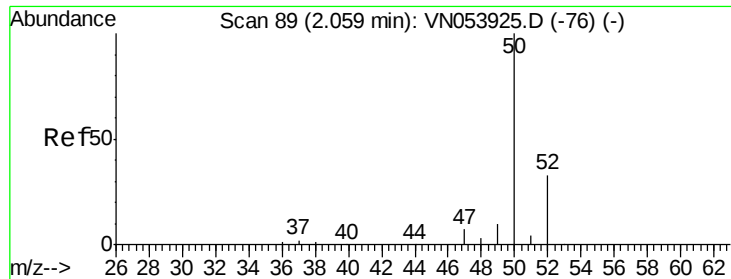
200000

100000

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Time-->





#3

Chloromethane

Concen: 96.966 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tot Ion: 50 Resp: 843662

Ion Ratio Lower Upper

50 100

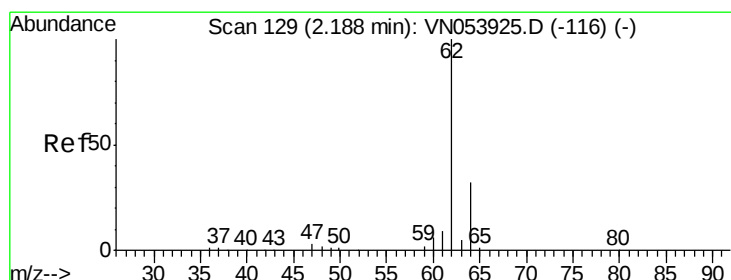
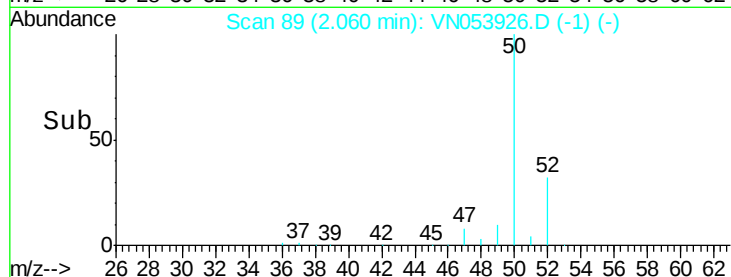
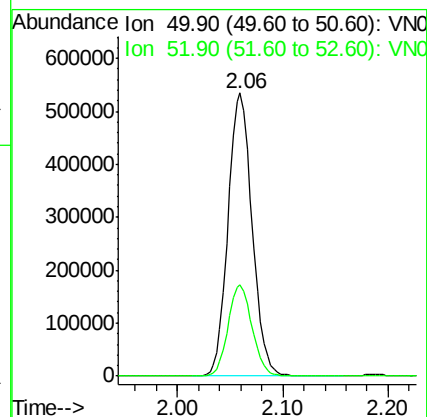
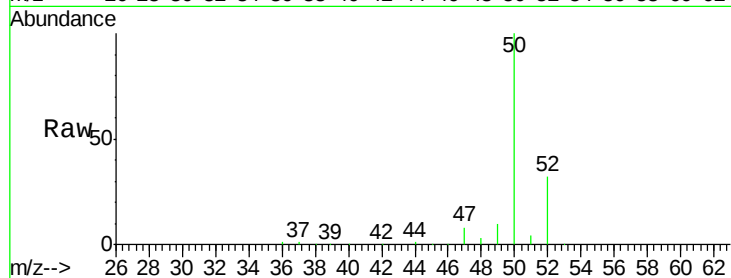
52 32.4 26.0 39.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 96.199 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053926.D

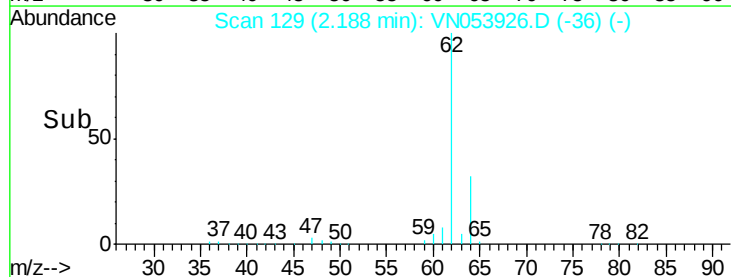
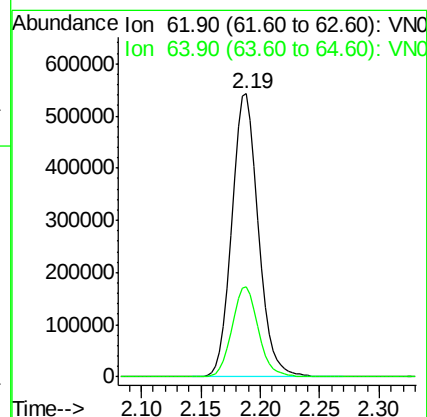
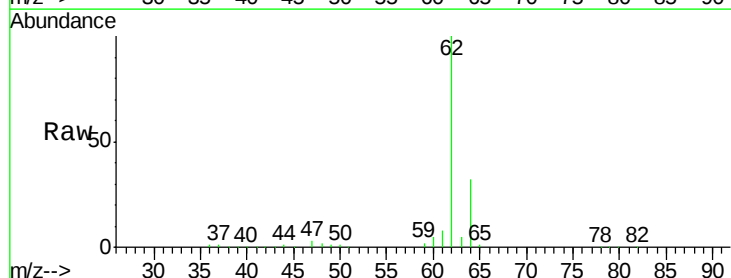
Acq: 25 Feb 2019 13:30

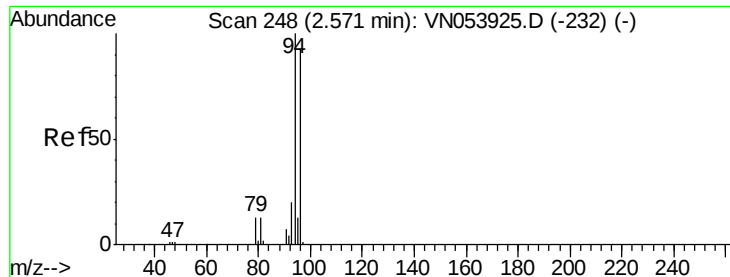
Tgt Ion: 62 Resp: 838622

Ion Ratio Lower Upper

62 100

64 31.7 25.1 37.7





#5

Bromomethane

Concen: 88.911 ug/l

RT: 2.56 min Scan# 245

Delta R.T. -0.01 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 94 Resp: 513324

Ion Ratio Lower Upper

94 100

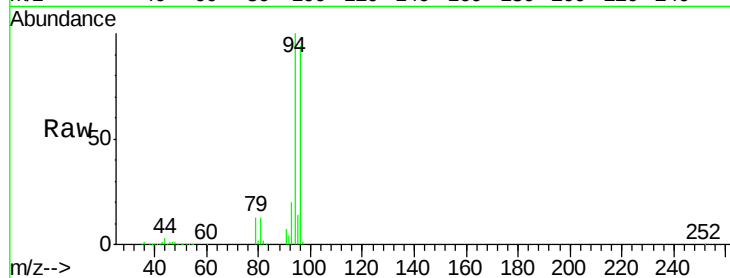
96 94.4 74.9 112.3

Manual Integrations

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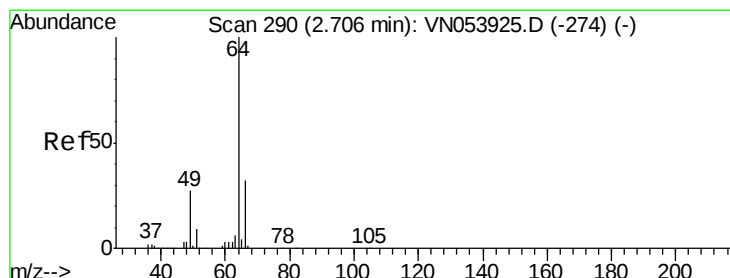
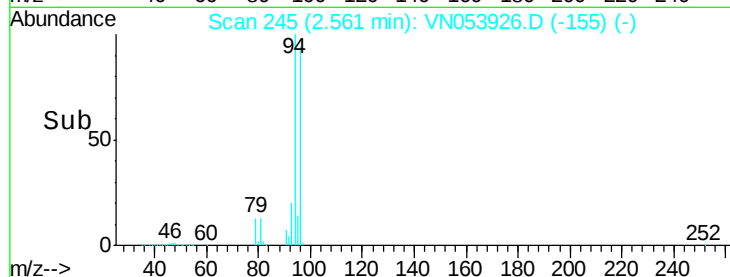
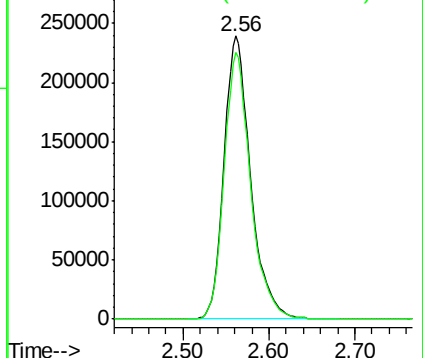
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 92.704 ug/l

RT: 2.70 min Scan# 289

Delta R.T. -0.00 min

Lab File: VN053926.D

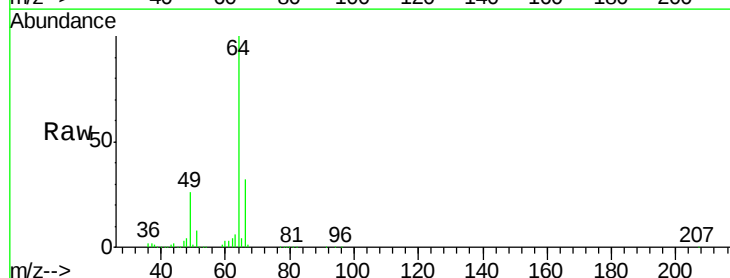
Acq: 25 Feb 2019 13:30

Tgt Ion: 64 Resp: 502608

Ion Ratio Lower Upper

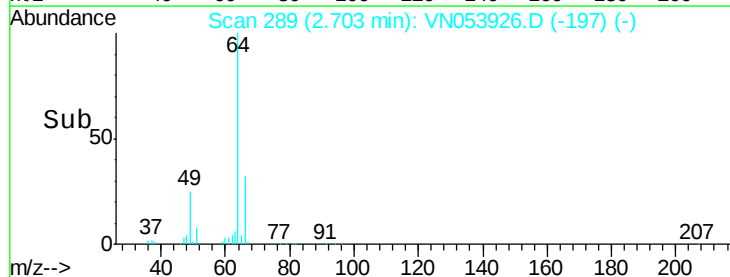
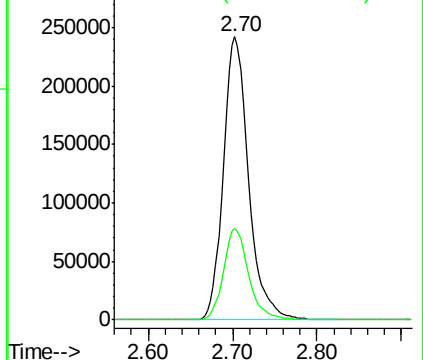
64 100

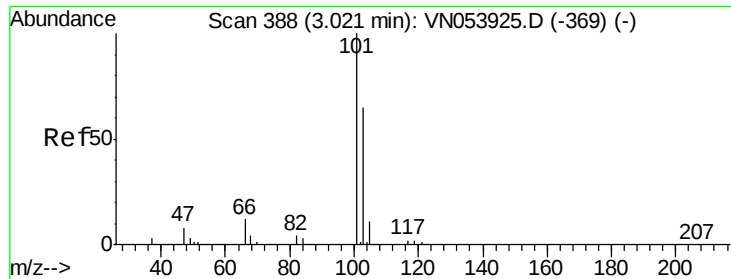
66 32.3 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

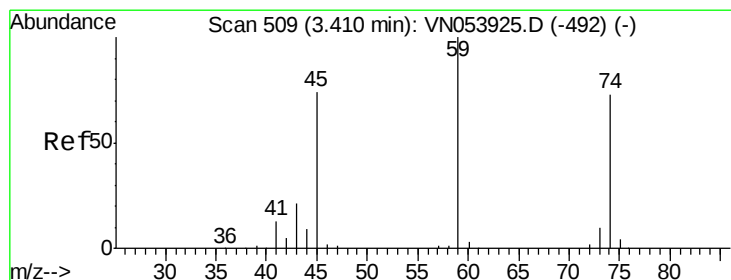
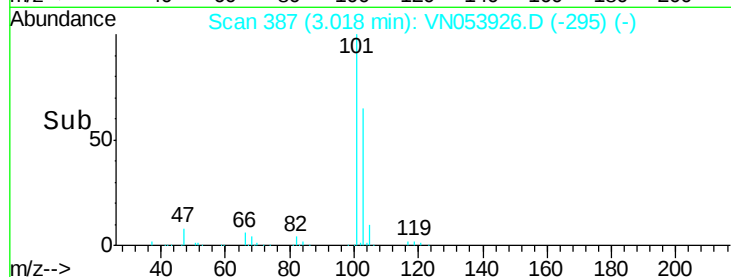
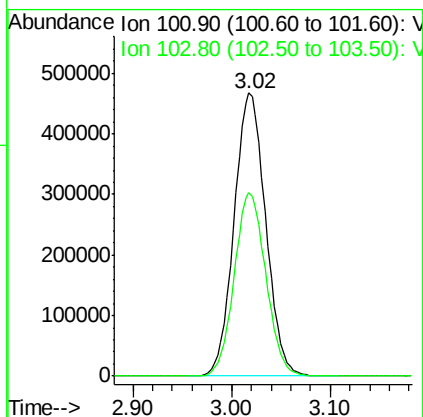
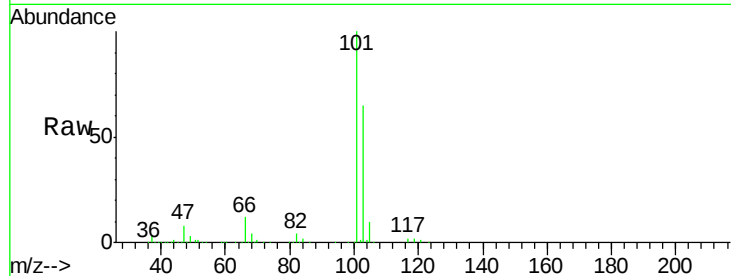
Trichlorofluoromethane
Concen: 93.201 ug/l
RT: 3.02 min Scan# 387
Delta R.T. -0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Instrument :
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ClientSampleId :
VSTDIC100

Tot Ion:101 Resp: 1037966
Ion Ratio Lower Upper
101 100
103 64.9 51.9 77.9

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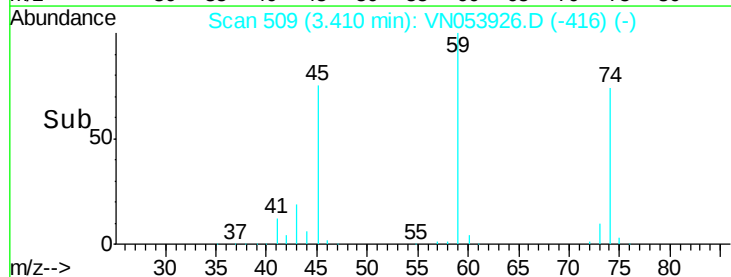
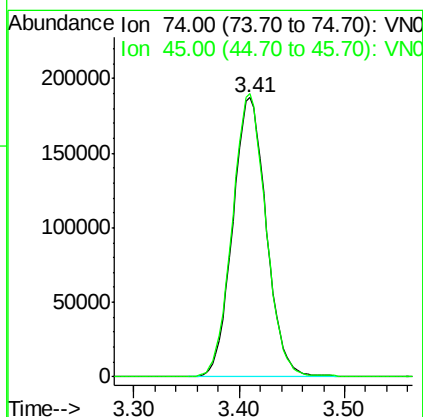
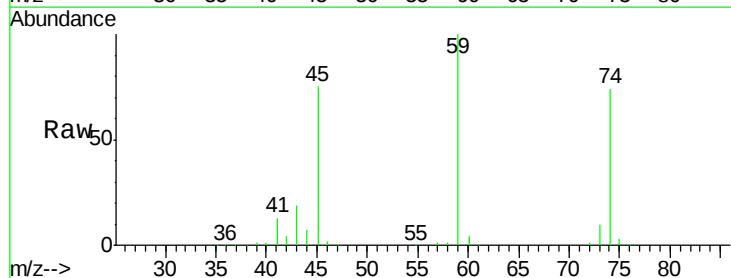
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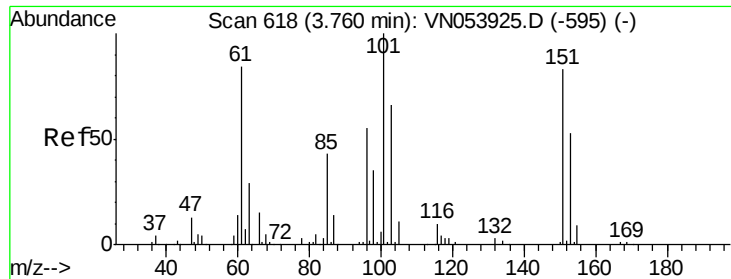


#8

Diethyl Ether
Concen: 99.231 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Tgt Ion: 74 Resp: 414041
Ion Ratio Lower Upper
74 100
45 101.0 46.9 140.6





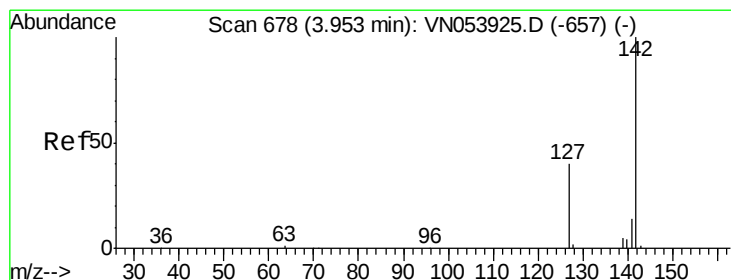
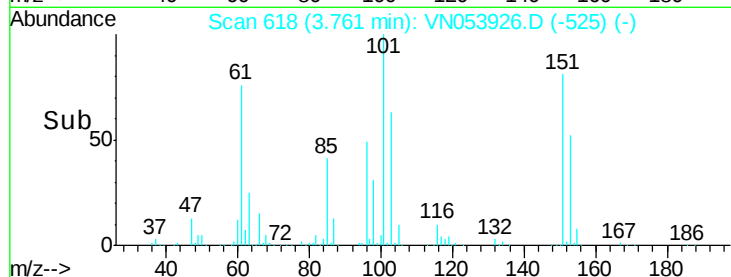
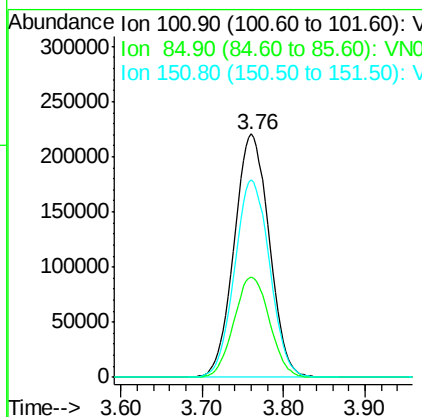
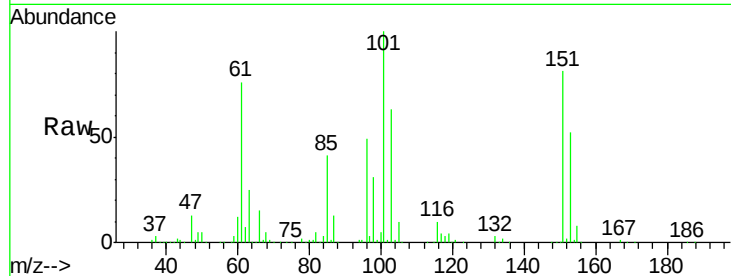
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 93.450 ug/l
 RT: 3.76 min Scan# 618
 Delta R.T. 0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
101	100		
85	41.8	32.5	48.7
151	81.4	70.2	105.2

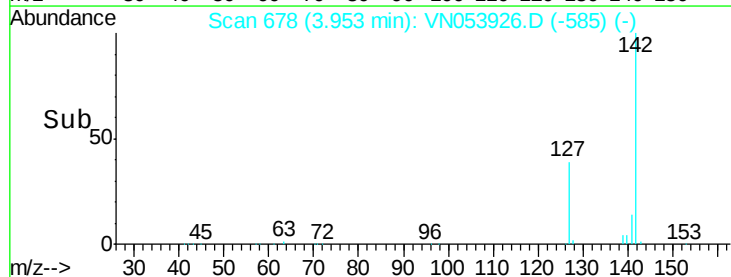
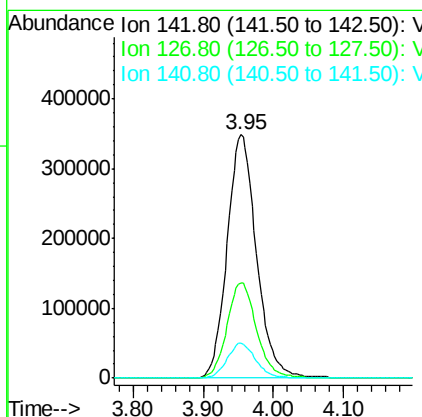
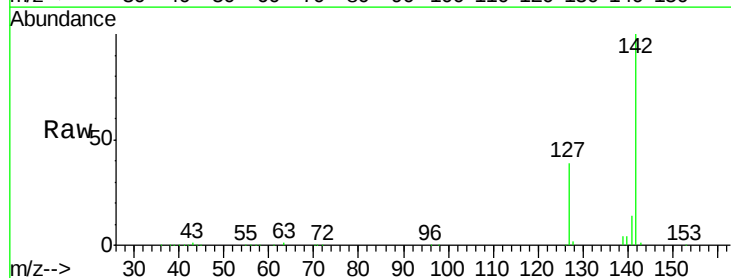
Manual Integrations
 APPROVED

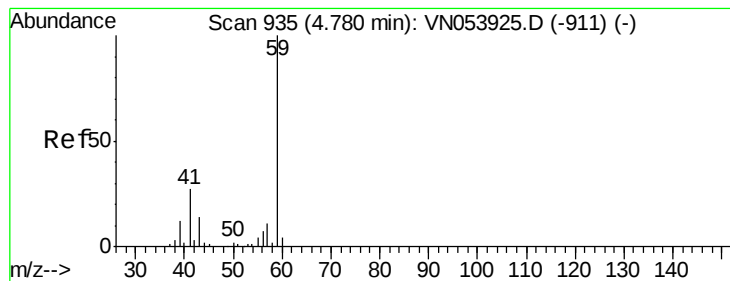
MMDadoda
 2/28/2019 10:48:11 AM



#10
 Methyl Iodide
 Concen: 109.767 ug/l
 RT: 3.95 min Scan# 678
 Delta R.T. 0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Tgt Ion	Ratio	Lower	Upper
142	100		
127	39.6	31.0	46.4
141	14.1	11.3	16.9





#11

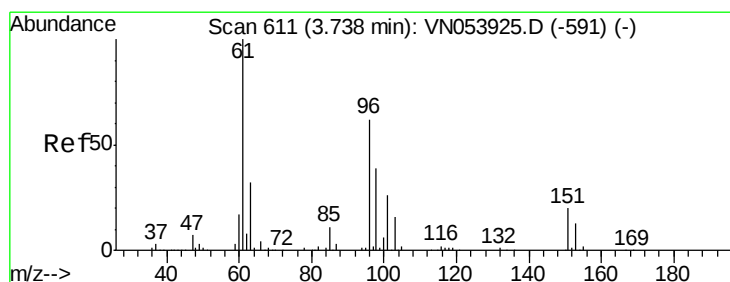
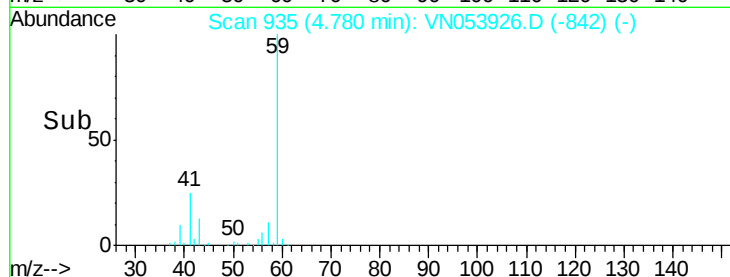
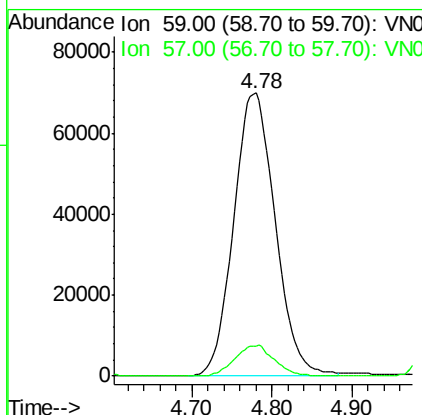
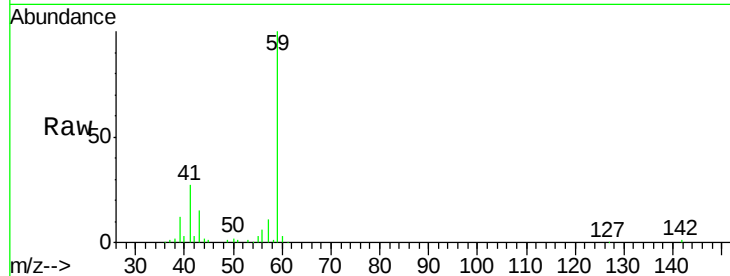
Tert butyl alcohol
 Concen: 488.233 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.1	12.1

Manual Integrations
 APPROVED

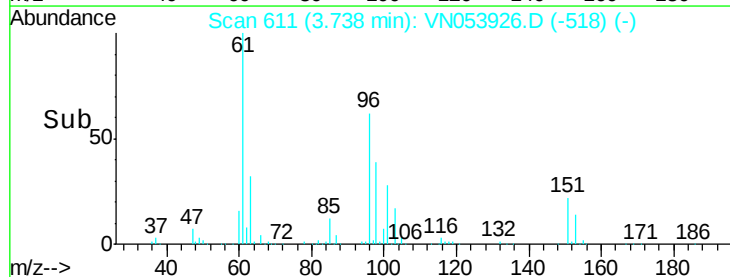
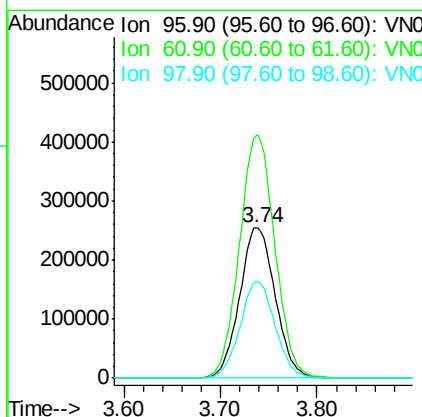
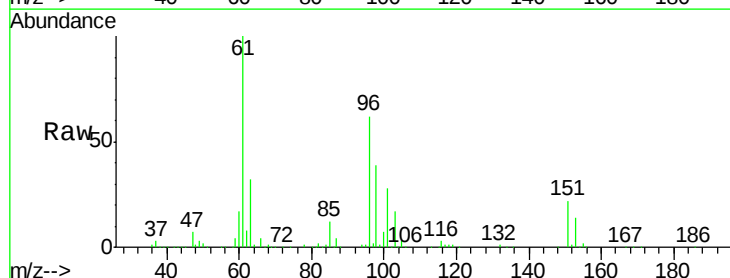
MMDadoda
 2/28/2019 10:48:11 AM

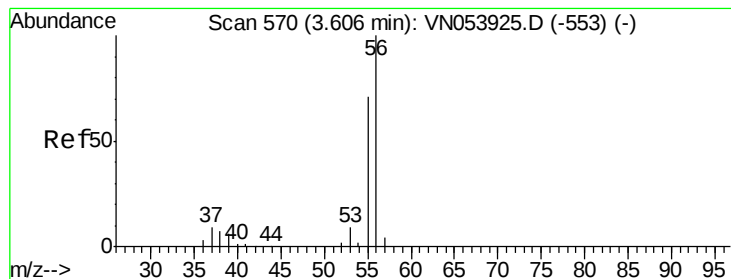


#12

1,1-Dichloroethene
 Concen: 96.670 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. 0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.5	121.0	181.4
98	63.7	52.2	78.2





#13

Acrolein

Concen: 589.259 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tot Ion: 56 Resp: 308996

Ion Ratio Lower Upper

56 100

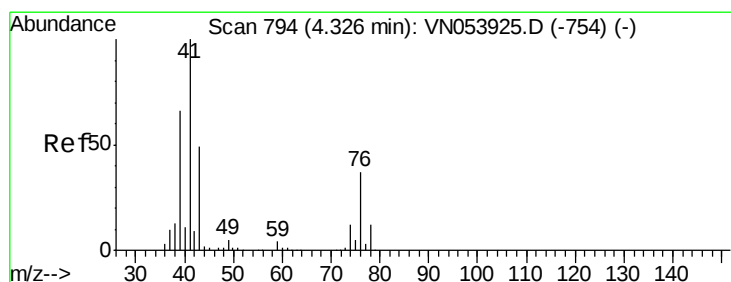
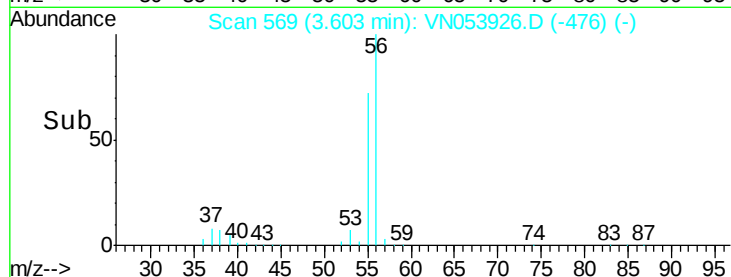
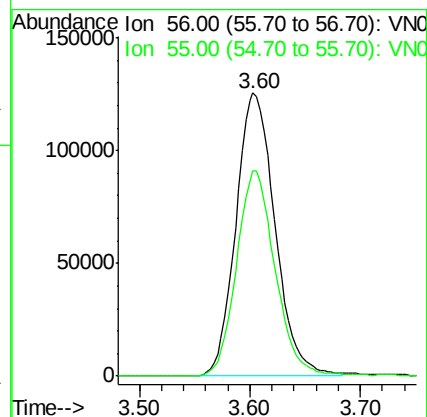
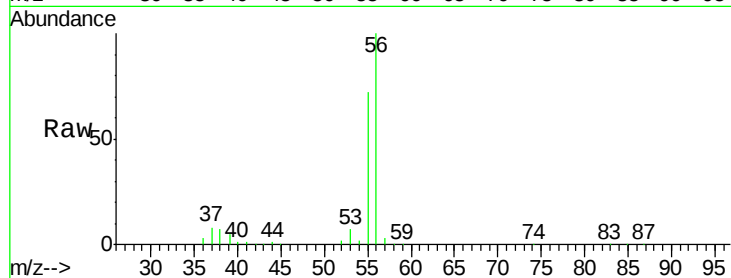
55 71.6 56.3 84.5

Manual Integrations

APPROVED

MMDadoda

2/28/2019 10:48:11 AM



#14

Allyl chloride

Concen: 101.167 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

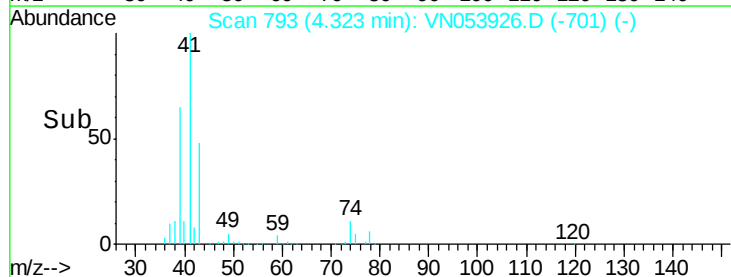
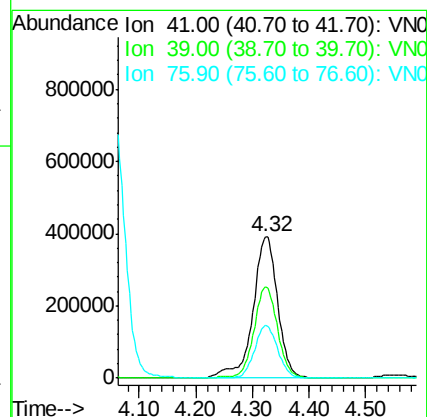
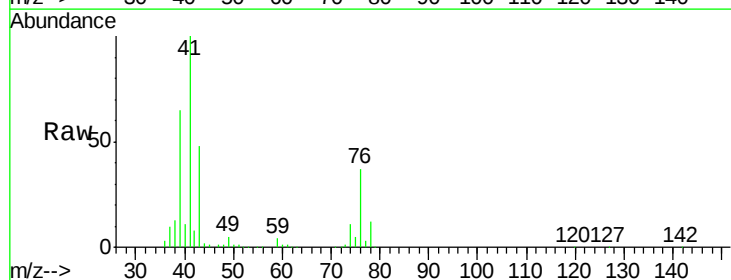
Tgt Ion: 41 Resp: 1193816

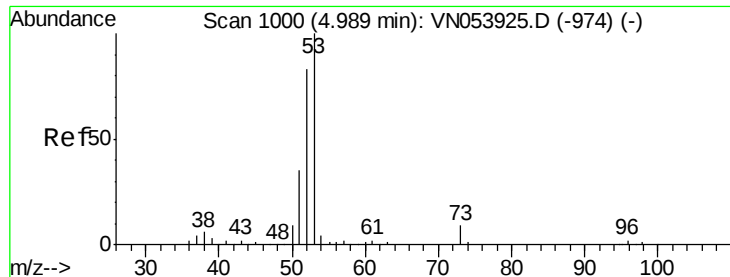
Ion Ratio Lower Upper

41 100

39 61.6 48.8 73.2

76 34.2 30.9 46.3





#15

Acrylonitrile

Concen: 504.192 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.01 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 53 Resp: 1345894

Ion Ratio Lower Upper

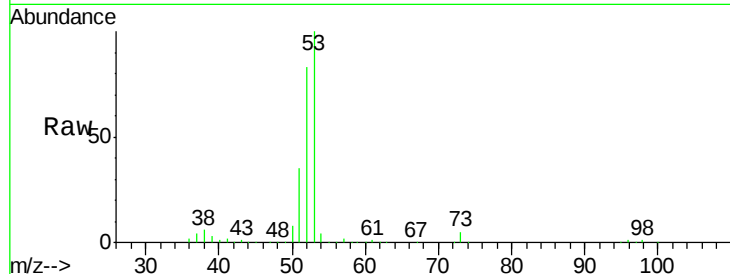
53 100

52 82.4 65.1 97.7

51 35.8 28.2 42.4

Manual Integrations
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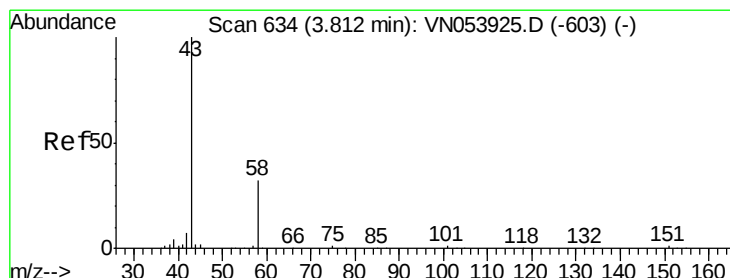
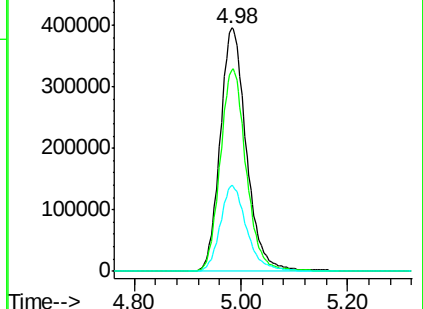
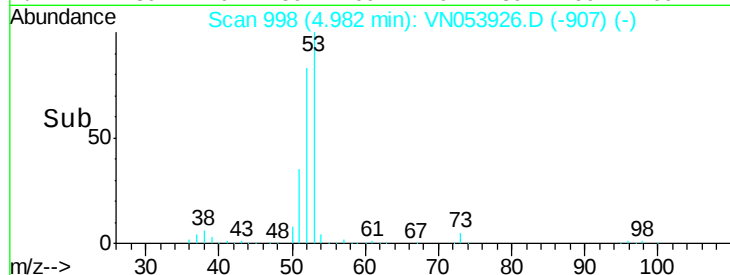
MMDadoda
2/28/2019 10:48:11 AM



Abundance Ion 53.00 (52.70 to 53.70): VN053926.D (-907) (-)

Ion 52.00 (51.70 to 52.70): VN053926.D (-907) (-)

Ion 51.00 (50.70 to 51.70): VN053926.D (-907) (-)



#16

Acetone

Concen: 450.847 ug/l

RT: 3.81 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN053926.D

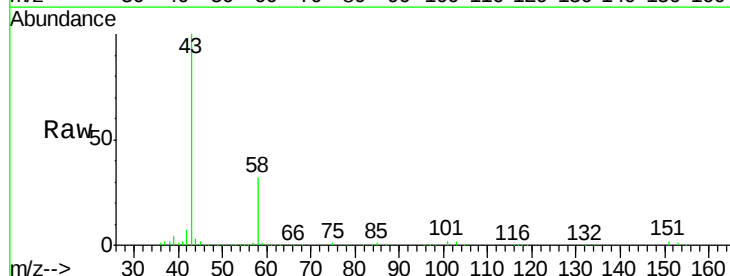
Acq: 25 Feb 2019 13:30

Tgt Ion: 43 Resp: 1056271

Ion Ratio Lower Upper

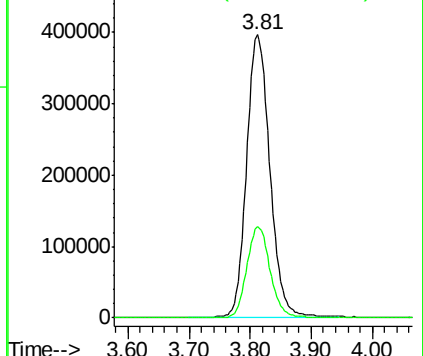
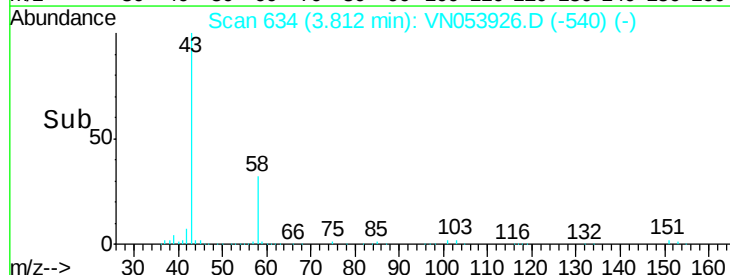
43 100

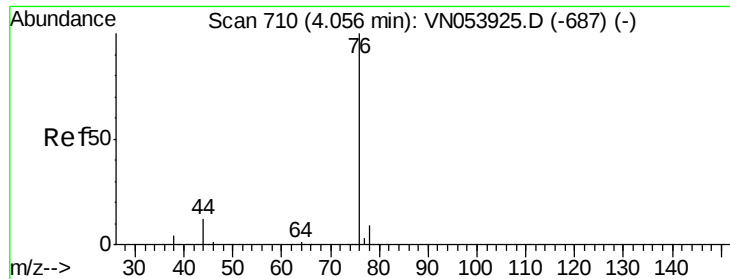
58 32.0 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VN053926.D (-540) (-)

Ion 58.00 (57.70 to 58.70): VN053926.D (-540) (-)





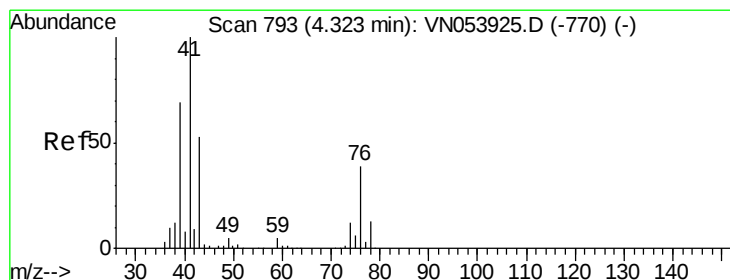
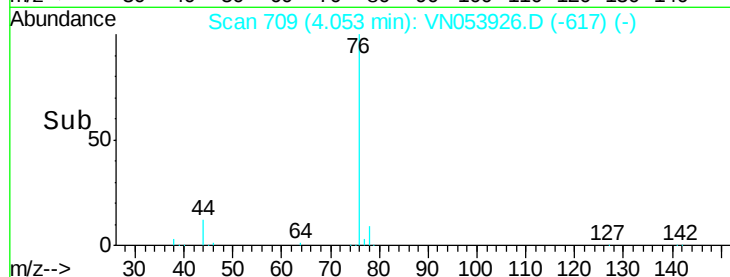
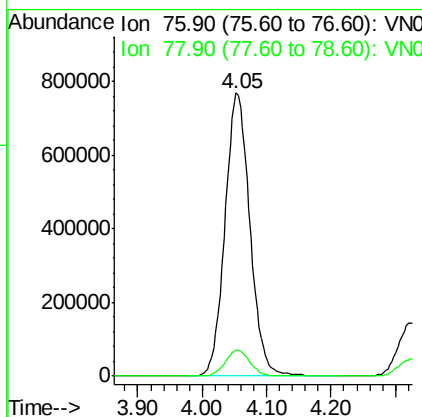
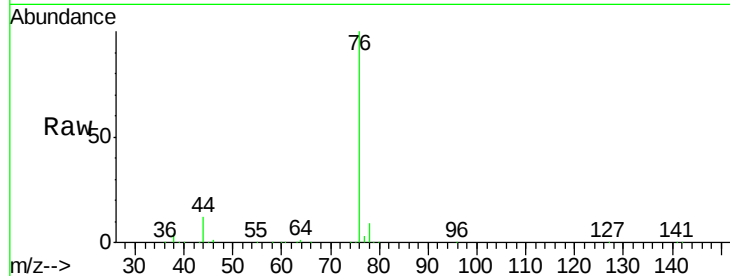
#17
Carbon Disulfide
Concen: 95.053 ug/l
RT: 4.05 min Scan# 709
Delta R.T. -0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 76 Resp: 2063125
Ion Ratio Lower Upper
76 100
78 9.3 7.5 11.3

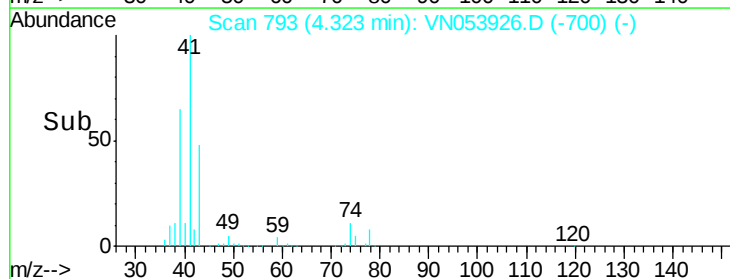
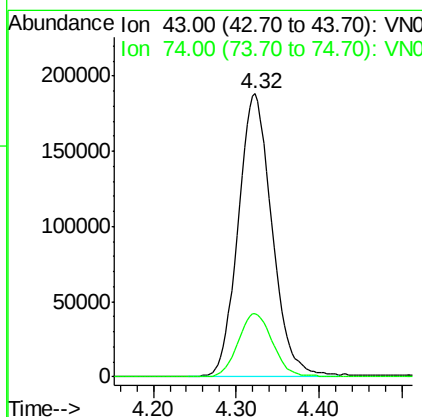
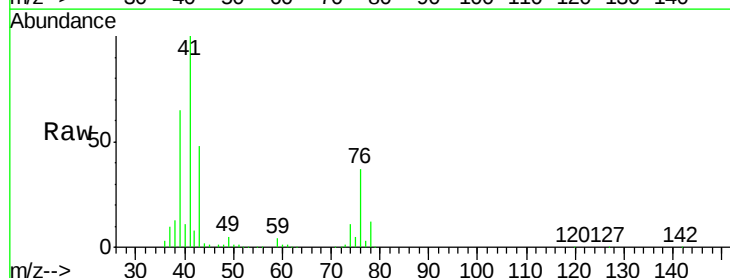
Manual Integrations
APPROVED

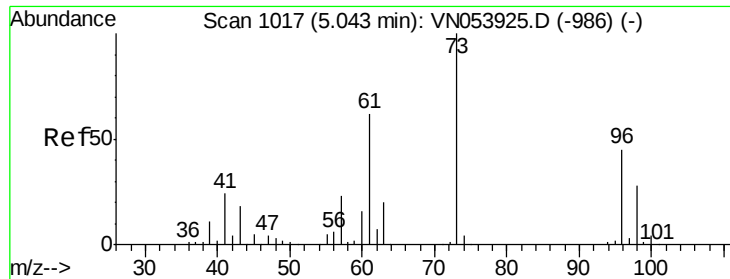
MMDadoda
2/28/2019 10:48:11 AM



#18
Methyl Acetate
Concen: 95.087 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Tgt Ion: 43 Resp: 531204
Ion Ratio Lower Upper
43 100
74 22.9 20.5 30.7





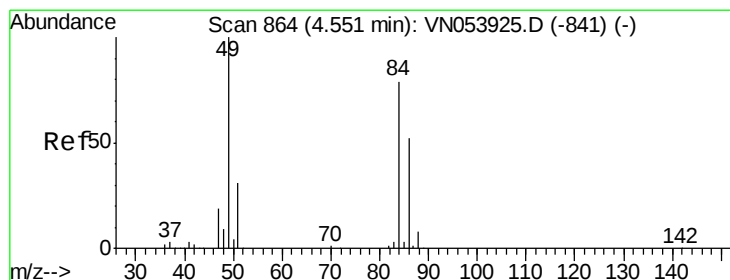
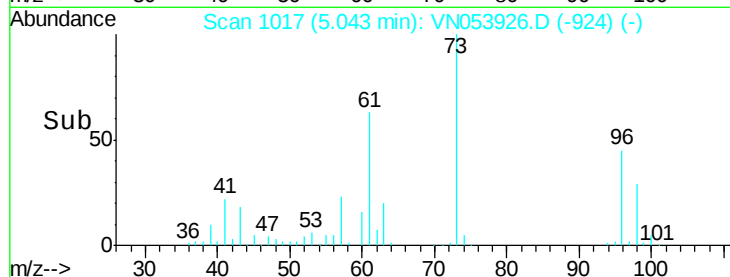
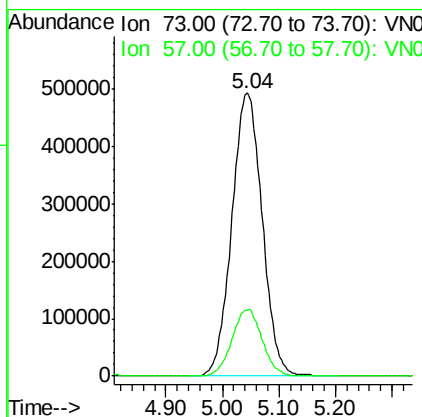
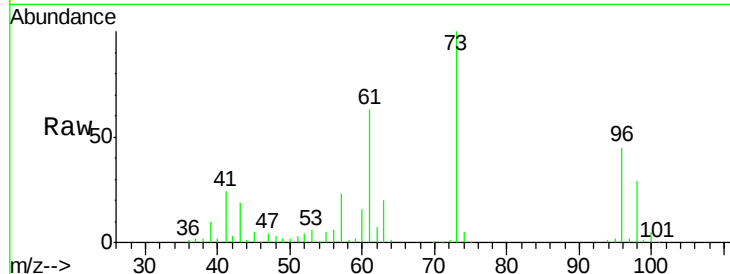
#19
Methvl tert-butvl Ether
Concen: 101.785 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 73 Resp: 1837077
Ion Ratio Lower Upper
73 100
57 23.4 18.0 27.0

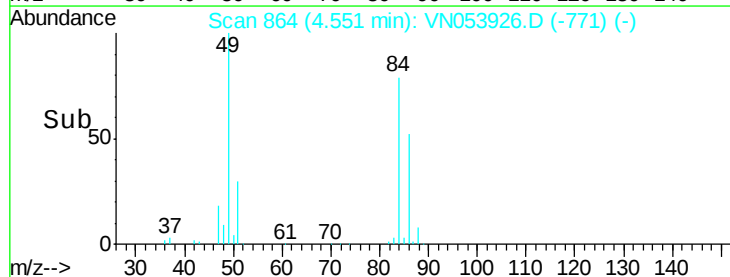
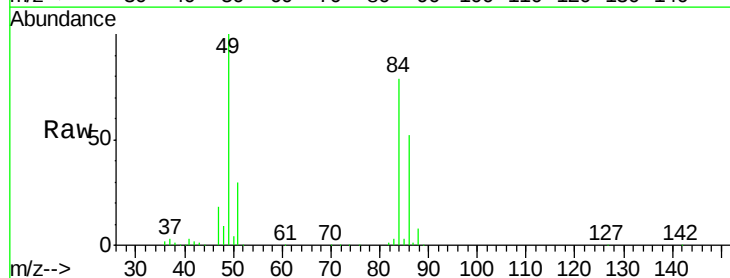
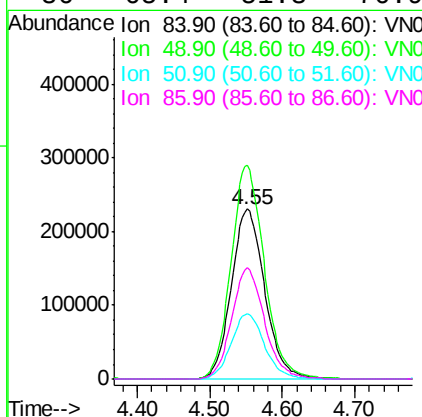
Manual Integrations
APPROVED

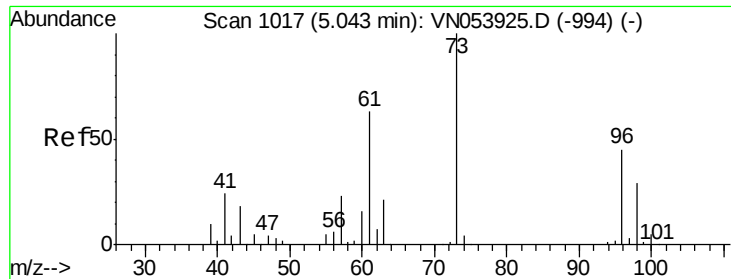
MMDadoda
2/28/2019 10:48:11 AM



#20
Methylene Chloride
Concen: 93.516 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Tgt Ion: 84 Resp: 739461
Ion Ratio Lower Upper
84 100
49 125.9 89.7 134.5
51 38.4 27.8 41.8
86 65.4 51.3 76.9





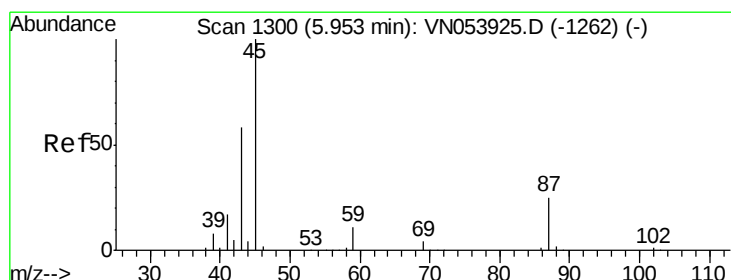
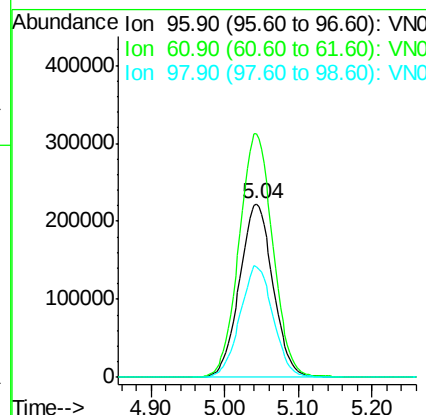
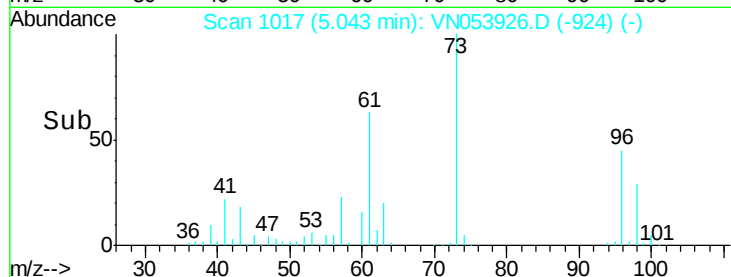
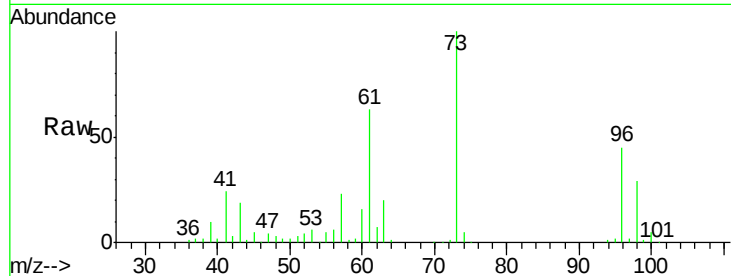
#21
trans-1,2-Dichloroethene
Concen: 96.606 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
96	100		
61	140.4	104.5	156.7
98	63.8	50.6	76.0

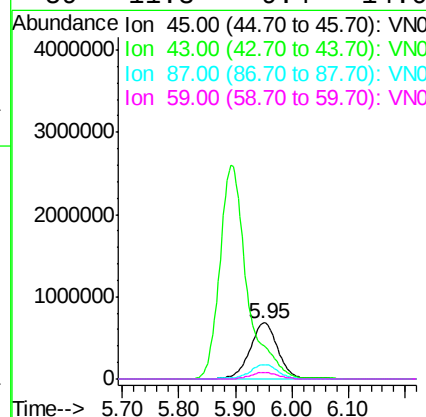
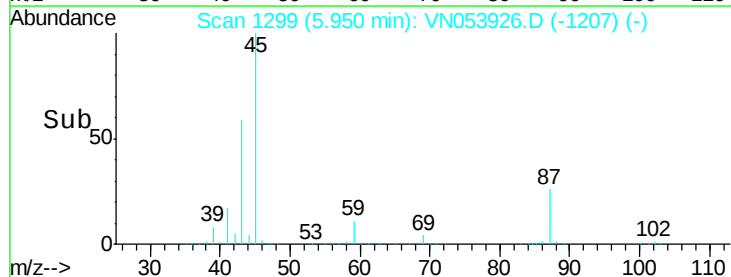
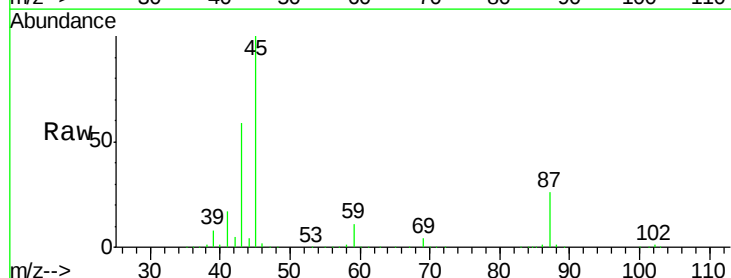
Manual Integrations
APPROVED

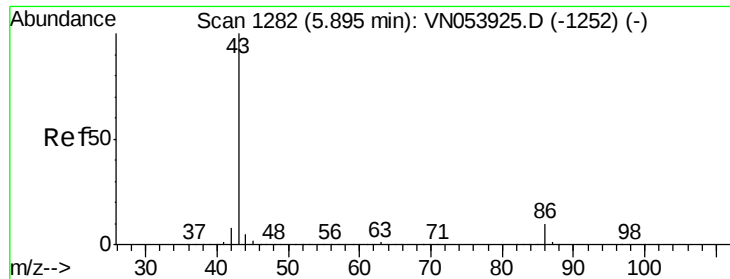
MMDadoda
2/28/2019 10:48:11 AM



#22
Diisopropyl ether
Concen: 103.763 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.8	46.2	69.4
87	25.6	23.4	35.0
59	11.3	9.4	14.0





#23

Vinyl Acetate

Concen: 533.119 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleID :

VSTDIC100

Tot Ion: 43 Resp: 8730933

Ion Ratio Lower Upper

43 100

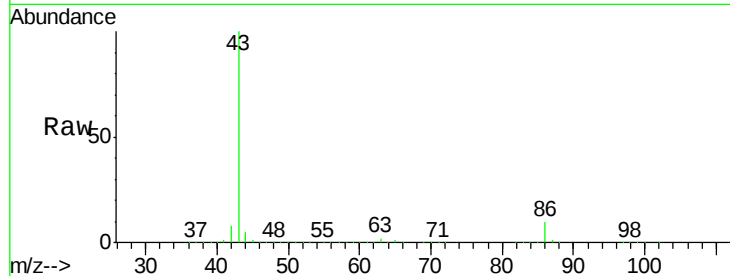
86 9.7 9.1 13.7

Manual Integrations

APPROVED

MMDadoda

2/28/2019 10:48:11 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

3000000

2500000

2000000

1500000

1000000

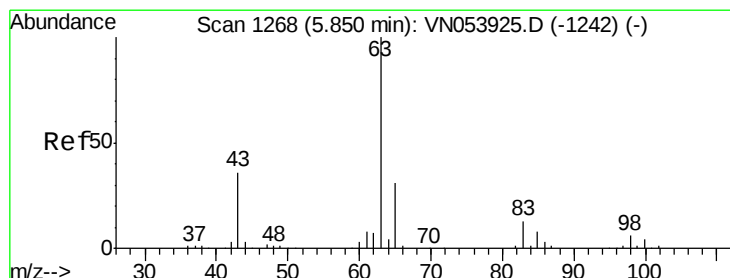
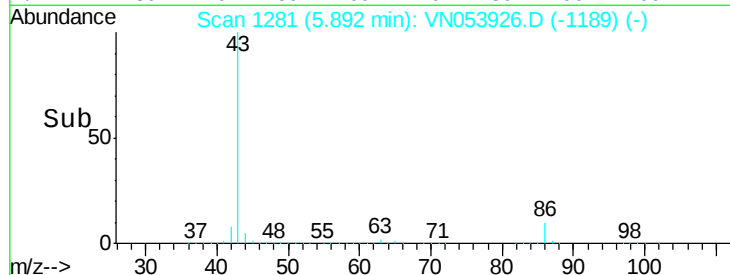
500000

0

5.89

5.80 6.00 6.20

Time-->



#24

1,1-Dichloroethane

Concen: 95.922 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

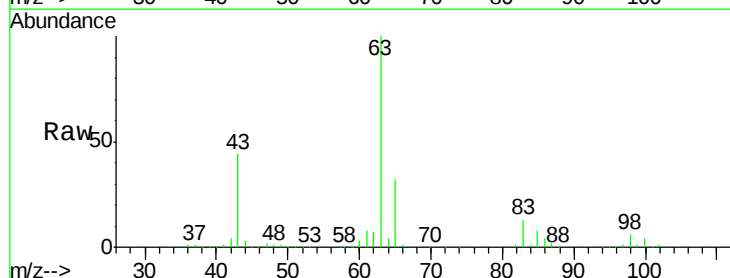
Tgt Ion: 63 Resp: 1339136

Ion Ratio Lower Upper

63 100

98 6.3 3.4 10.2

100 3.9 2.2 6.6



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

500000

400000

300000

200000

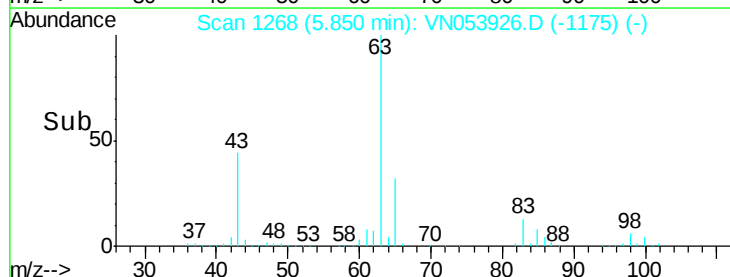
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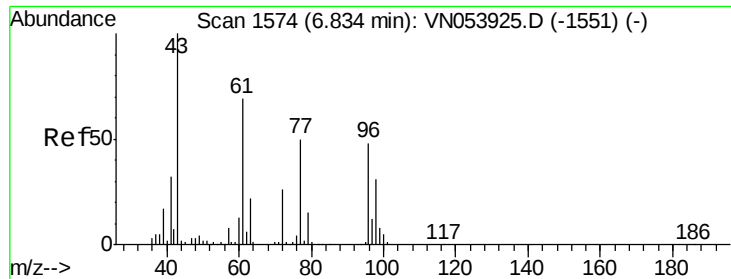
0

5.85

5.70 5.80 5.90 6.00

Time-->





#25

2-Butanone

Concen: 501.926 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1574563

Ion Ratio Lower Upper

43 100

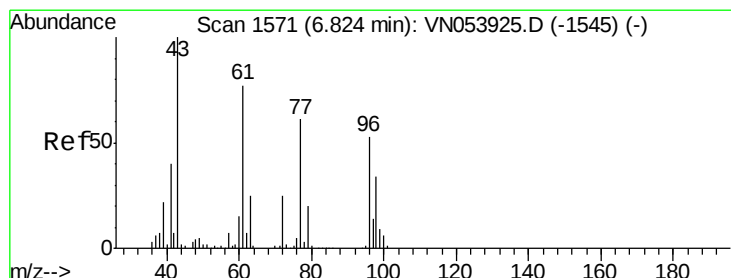
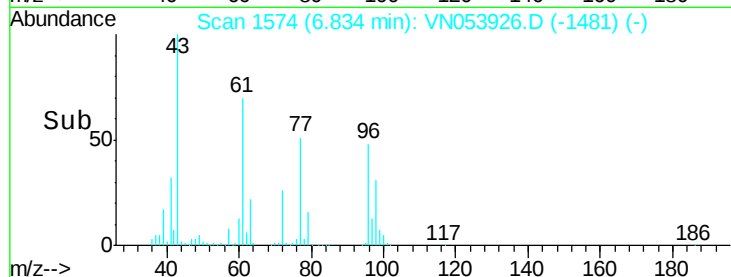
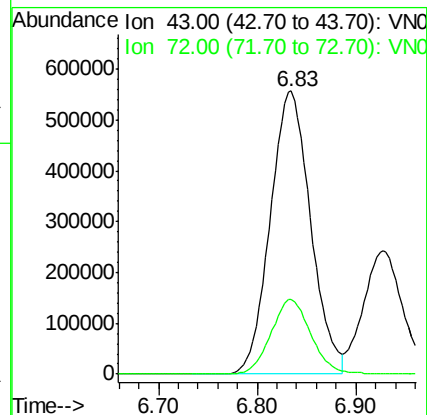
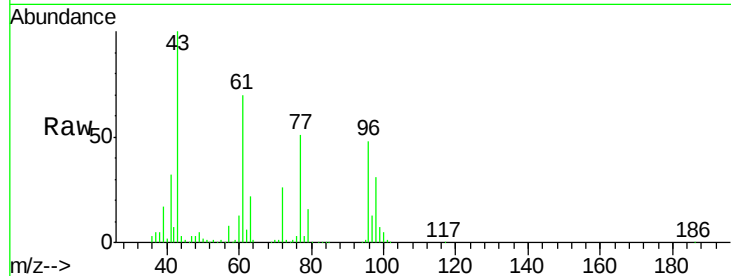
72 26.4 22.1 33.1

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#26

2,2-Dichloropropane

Concen: 98.736 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN053926.D

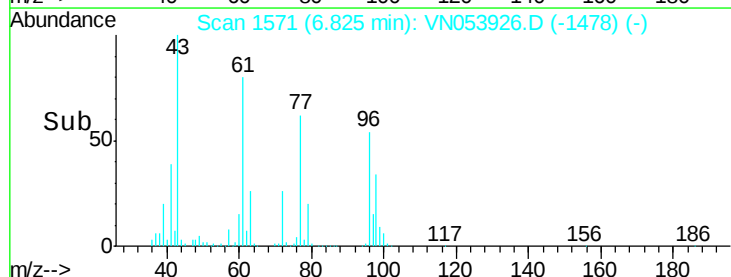
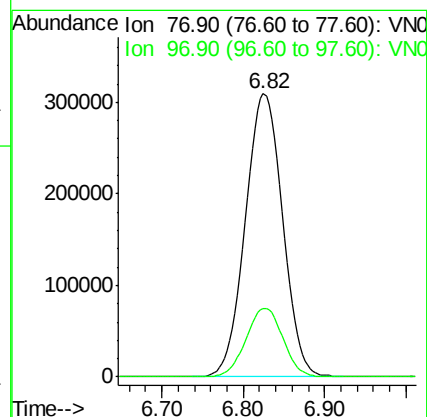
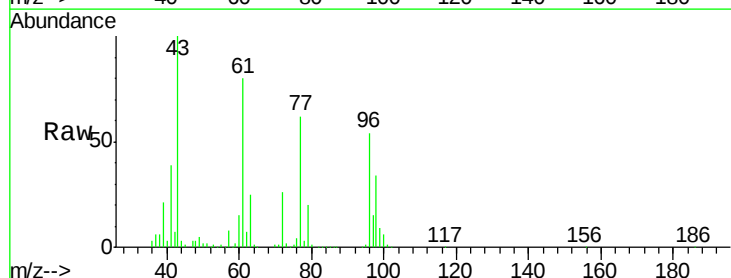
Acq: 25 Feb 2019 13:30

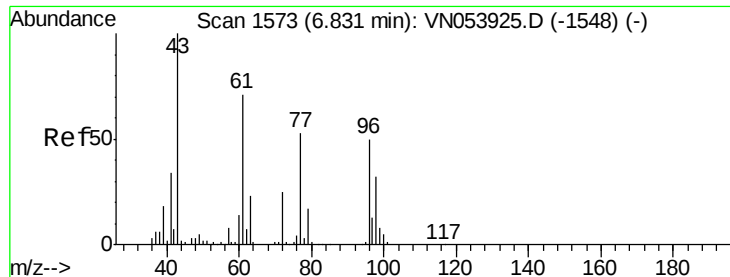
Tgt Ion: 77 Resp: 979318

Ion Ratio Lower Upper

77 100

97 24.0 12.3 36.9





#27

cis-1,2-Dichloroethene

Concen: 98.774 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 96 Resp: 799919

Ion Ratio Lower Upper

96 100

61 146.8 0.0 275.6

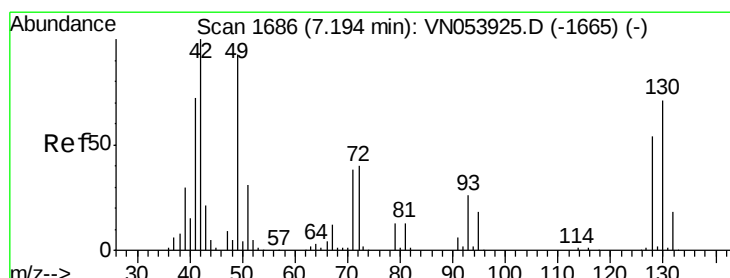
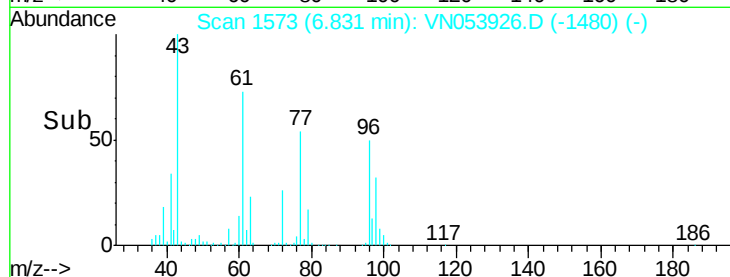
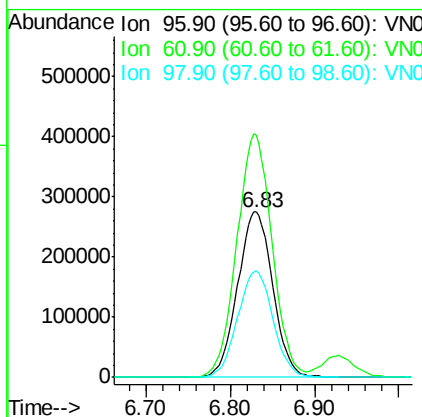
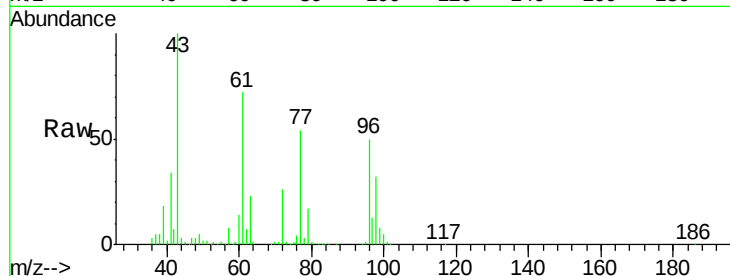
98 64.6 0.0 130.0

Manual Integrations

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#28

Bromochloromethane

Concen: 96.806 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

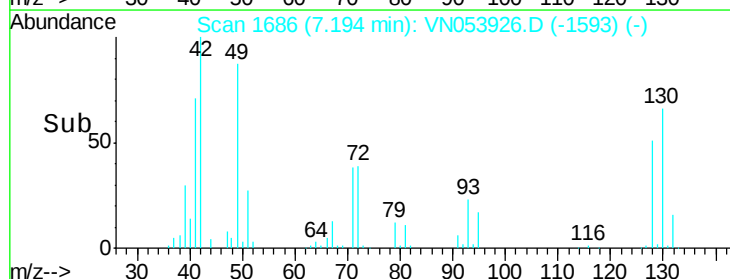
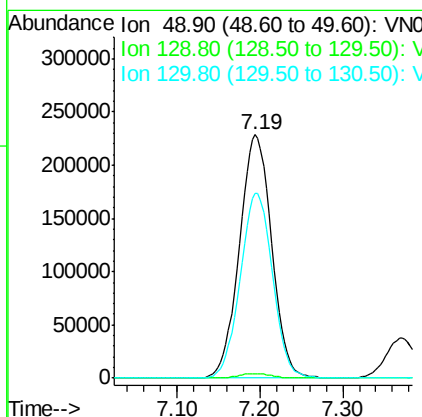
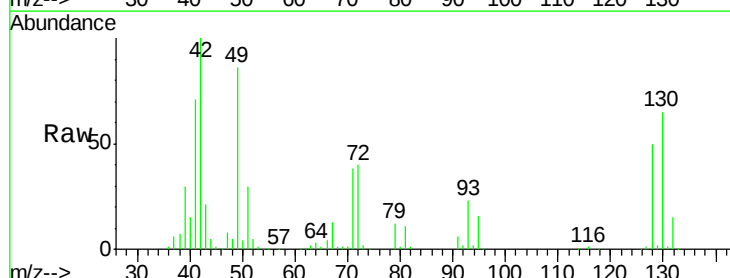
Tgt Ion: 49 Resp: 618609

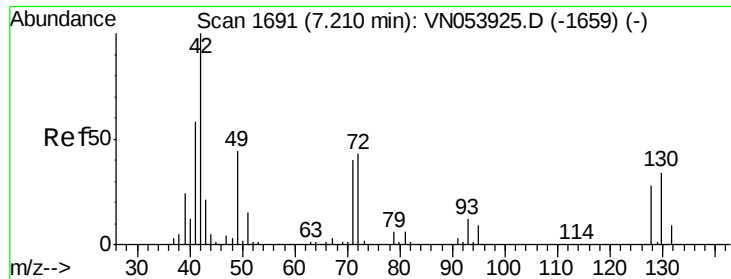
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.6

130 76.0 72.9 109.3





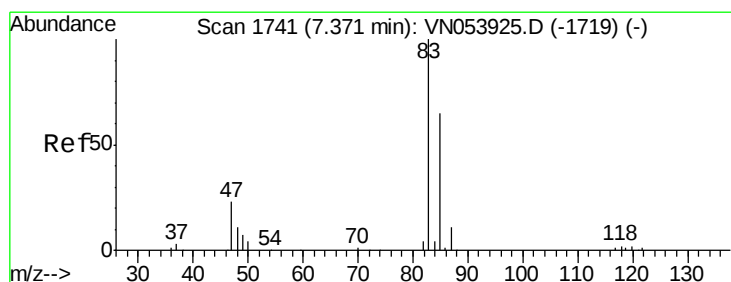
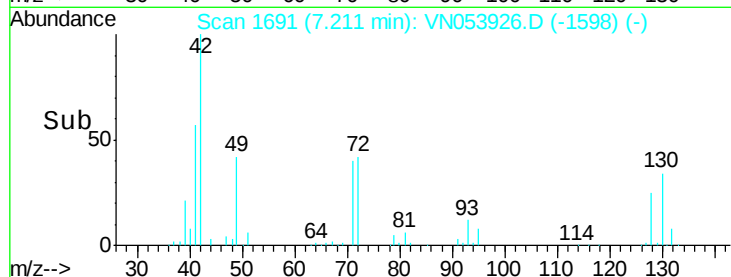
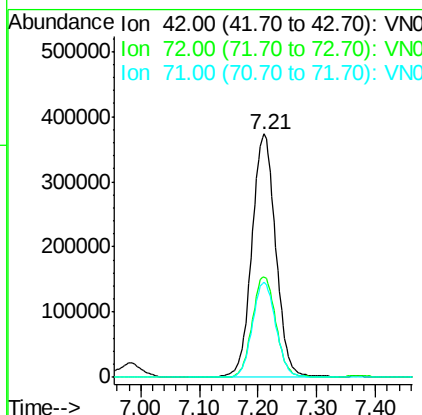
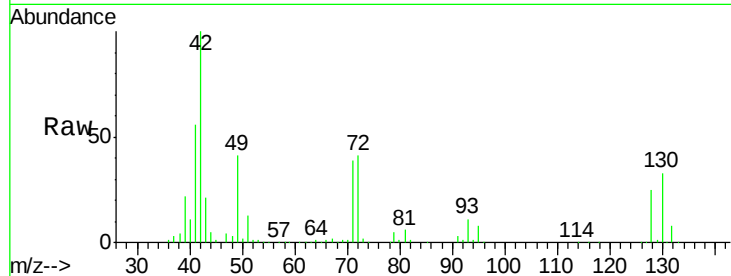
#29
Tetrahydrofuran
Concen: 500.650 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 42 Resp: 1045889
Ion Ratio Lower Upper
42 100
72 41.0 36.9 55.3
71 38.5 34.6 52.0

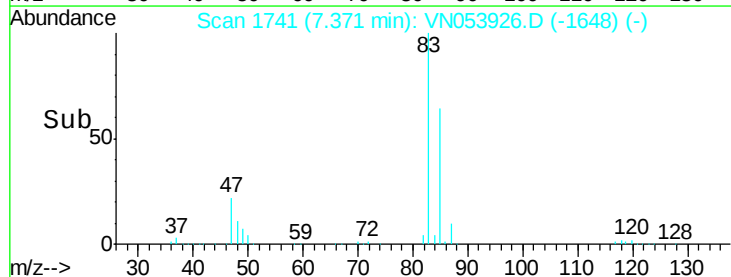
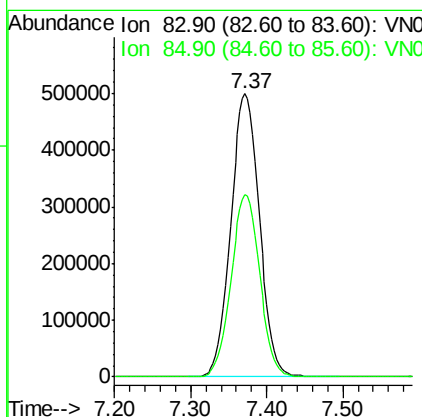
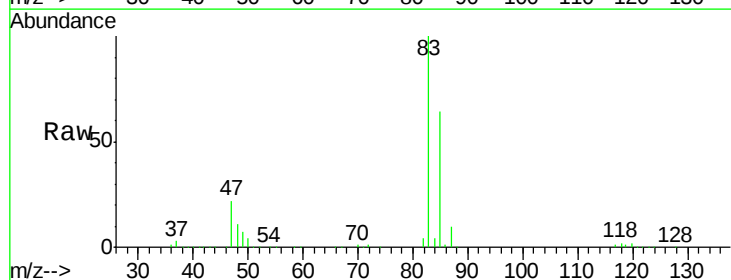
Manual Integrations
APPROVED

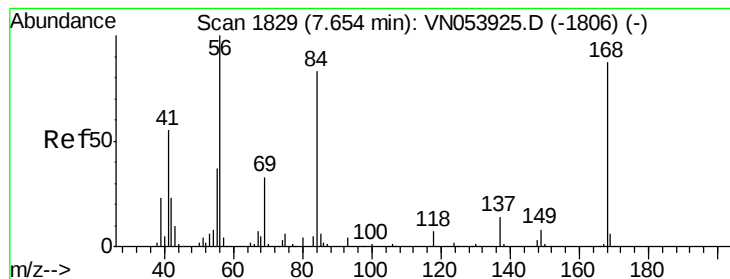
MMDadoda
2/28/2019 10:48:11 AM



#30
Chloroform
Concen: 96.550 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Tgt Ion: 83 Resp: 1307004
Ion Ratio Lower Upper
83 100
85 64.4 52.6 78.8





#31

Cyclohexane

Concen: 85.429 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 1269982

Ion Ratio Lower Upper

56 100

69 30.7 26.0 39.0

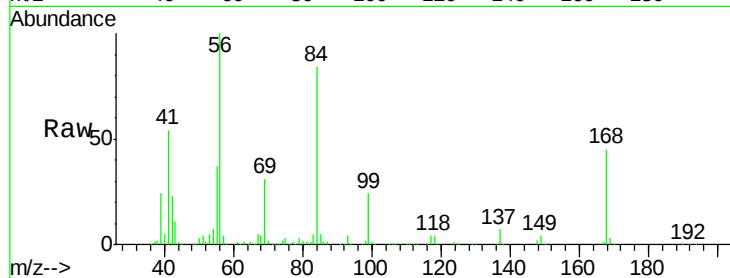
84 82.5 69.1 103.7

Manual Integrations

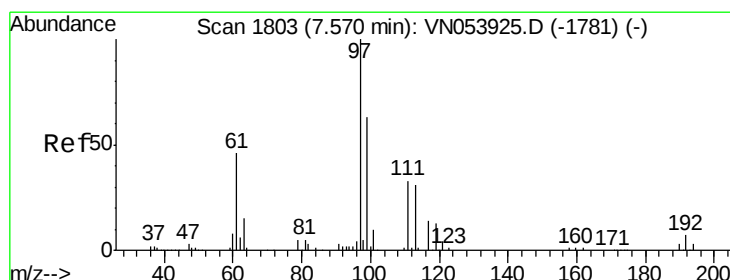
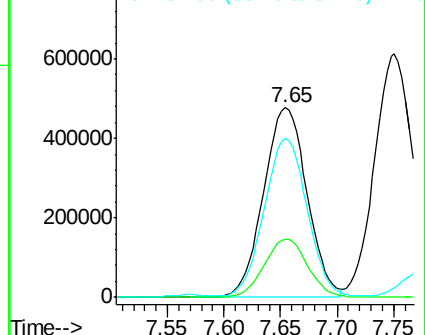
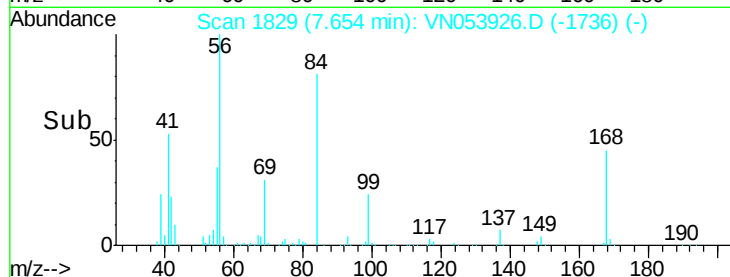
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Abundance Ion 56.00 (55.70 to 56.70): VN053926.D (-1736) (-)



#32

1,1,1-Trichloroethane

Concen: 98.085 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

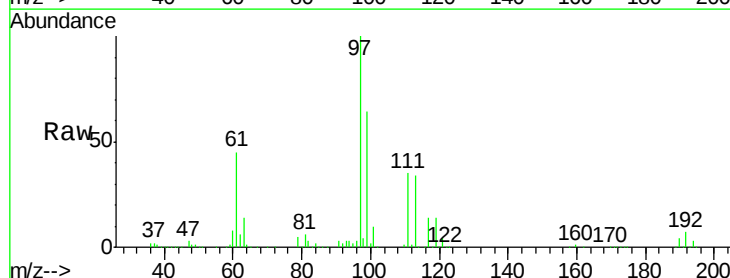
Tgt Ion: 97 Resp: 1094799

Ion Ratio Lower Upper

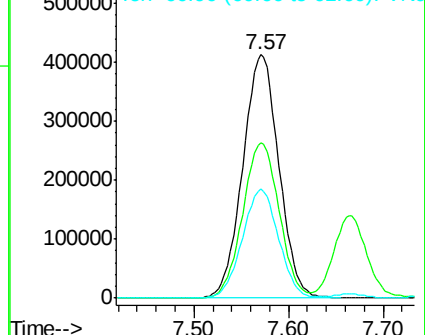
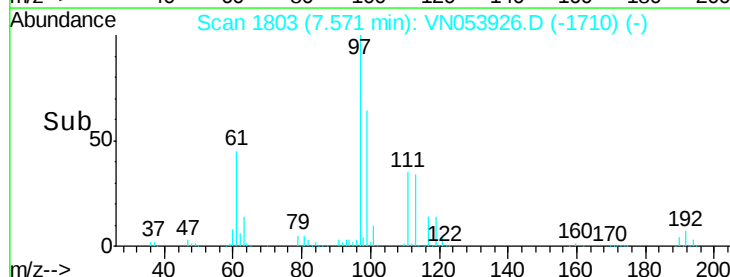
97 100

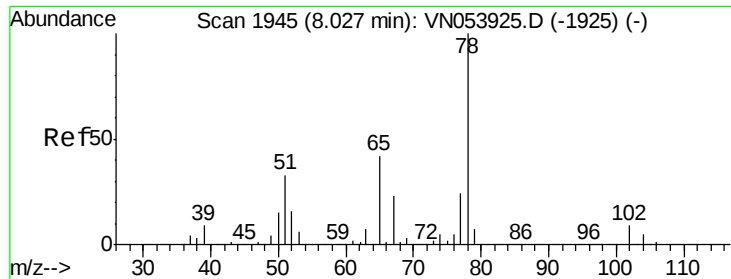
99 64.5 51.8 77.8

61 44.9 33.2 49.8



Abundance Ion 96.90 (96.60 to 97.60): VN053926.D (-1710) (-)





#33

1,2-Dichloroethane-d4

Concen: 95.713 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 65 Resp: 764696

Ion Ratio Lower Upper

65 100

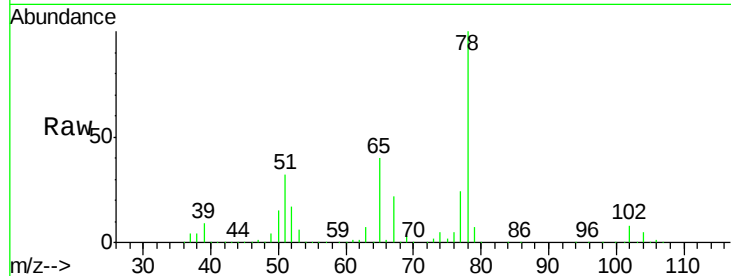
67 54.6 0.0 111.8

Manual Integrations

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Abundance Ion 64.90 (64.60 to 65.60): VN053926.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN053926.D (-1852) (-)

8.03

300000

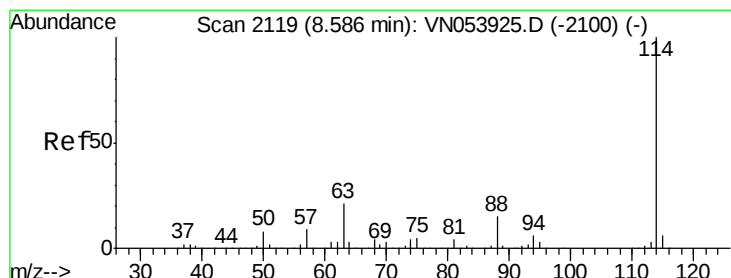
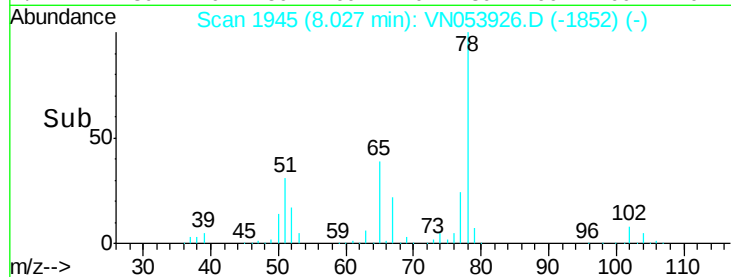
200000

100000

0

7.95 8.00 8.05 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

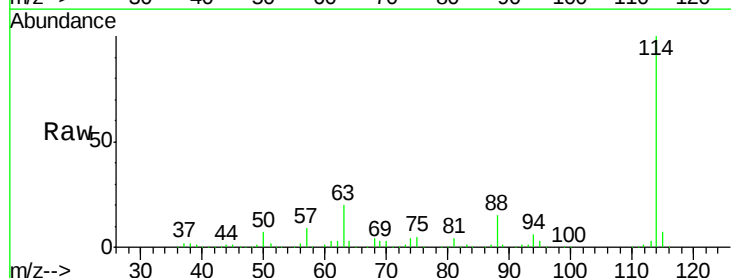
Tgt Ion: 114 Resp: 1067192

Ion Ratio Lower Upper

114 100

63 20.0 0.0 37.4

88 15.2 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): VN053926.D (-2026) (-)

Ion 63.00 (62.70 to 63.70): VN053926.D (-2026) (-)

Ion 87.90 (87.60 to 88.60): VN053926.D (-2026) (-)

8.58

600000

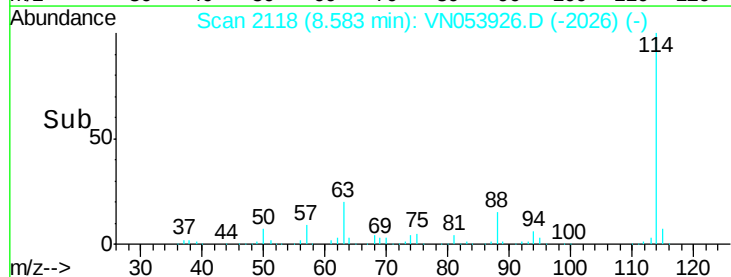
400000

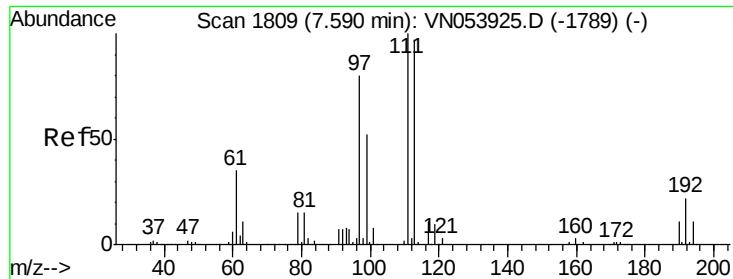
200000

0

8.50 8.60 8.70 8.80

Time-->





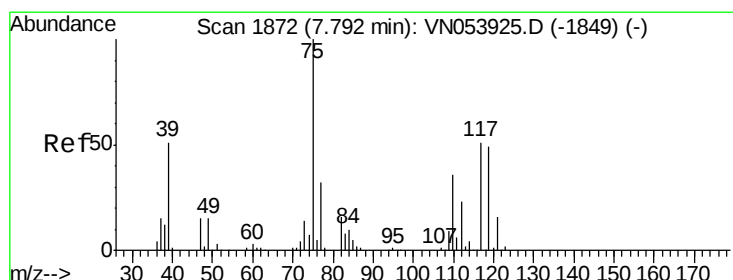
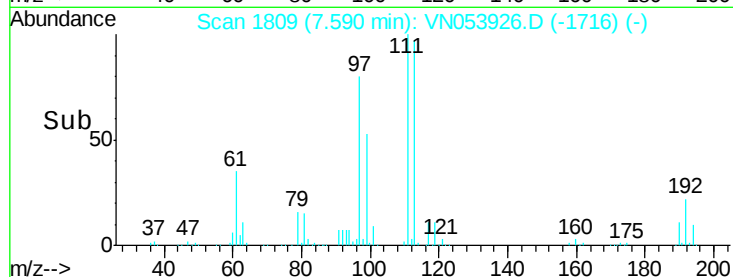
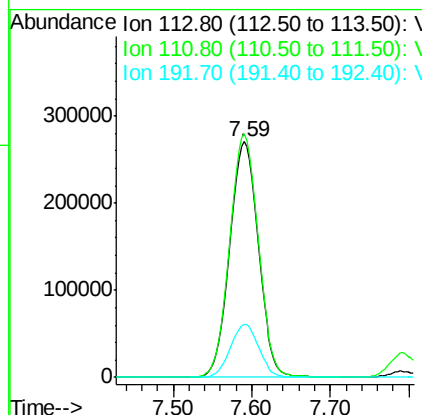
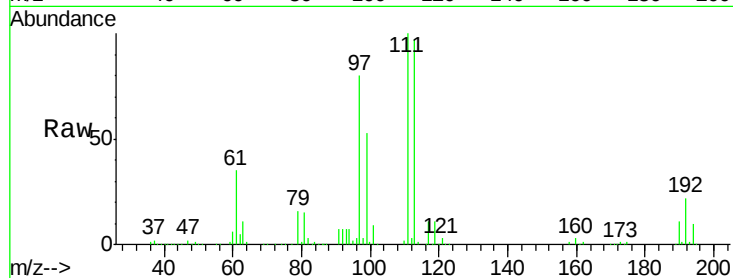
#35
Dibromofluoromethane
Concen: 99.340 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
113	100	685552		
111	103.1	81.1	121.7	
192	22.2	18.8	28.2	

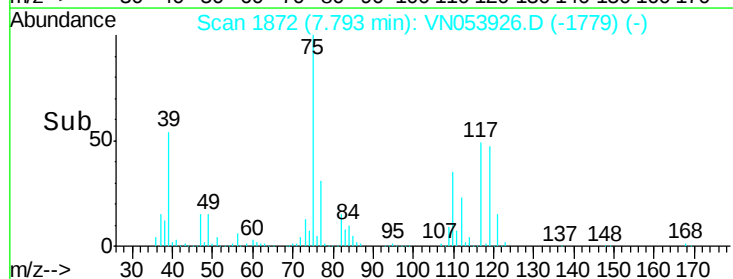
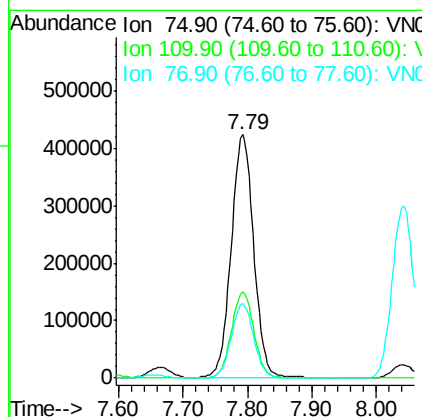
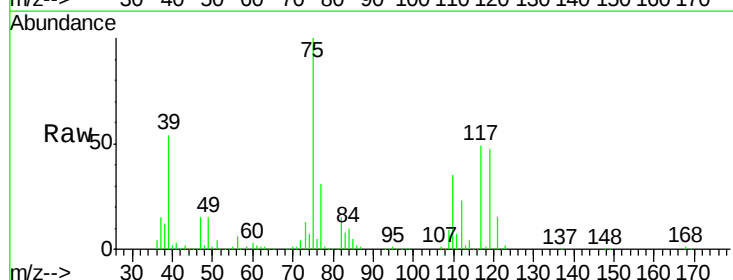
Manual Integrations
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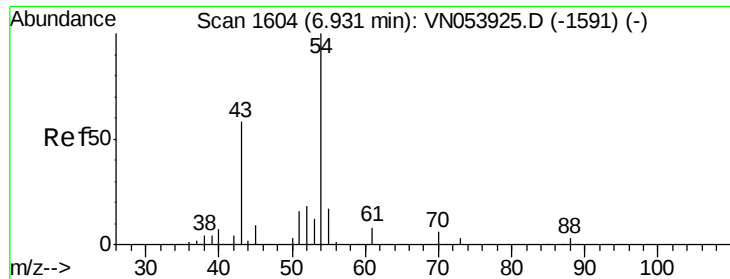
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#36
1,1-Dichloropropene
Concen: 104.116 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1033299		
110	35.5	19.0	57.0	
77	30.6	25.4	38.0	





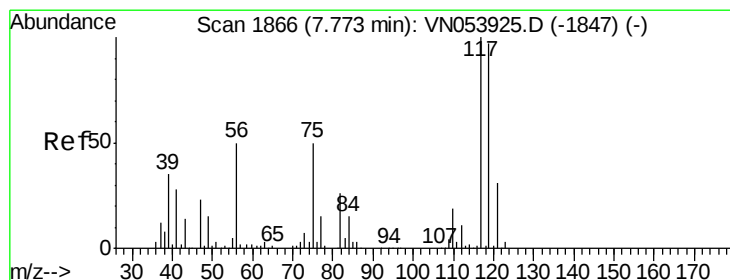
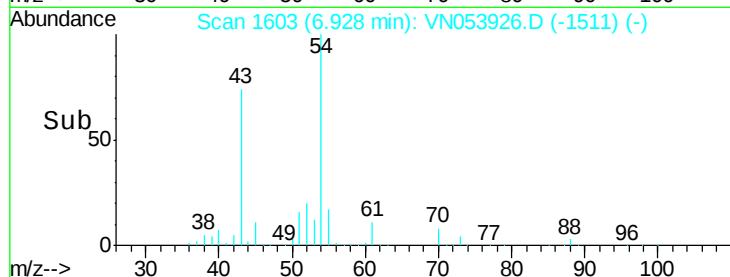
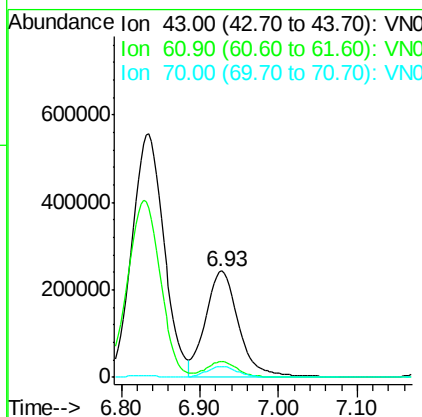
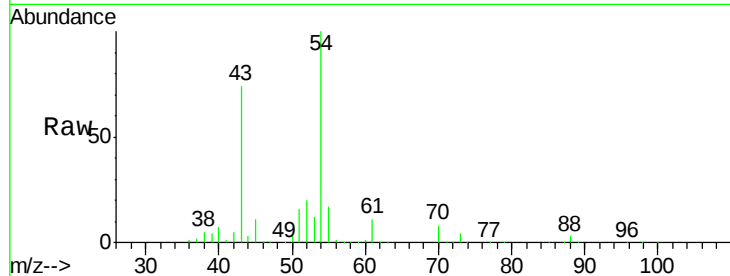
#37
Ethyl Acetate
Concen: 98.235 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.1	12.0	18.0
70	9.6	8.7	13.1

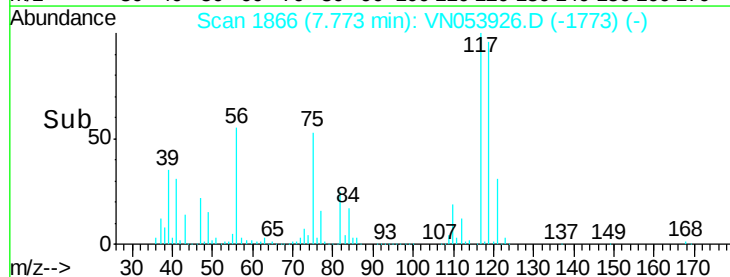
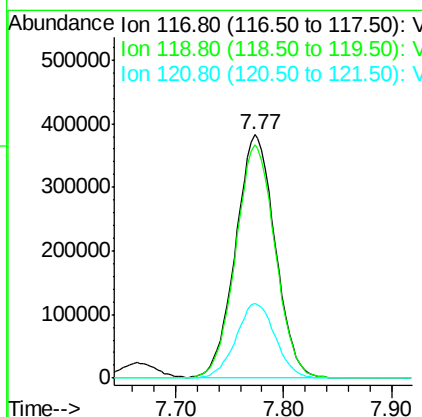
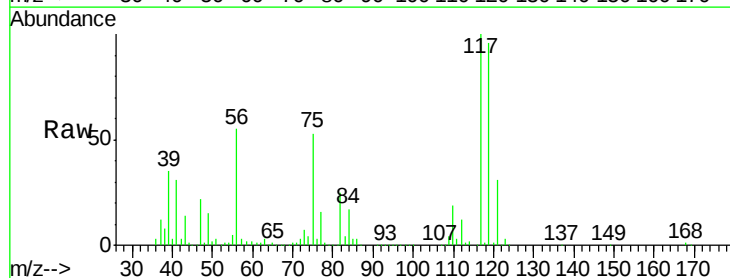
Manual Integrations
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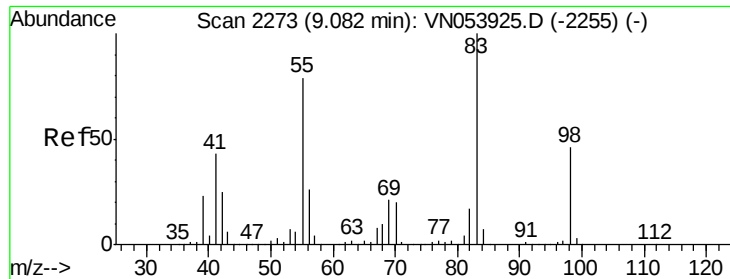
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#38
Carbon Tetrachloride
Concen: 93.891 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.2	114.2
121	30.8	24.6	36.8





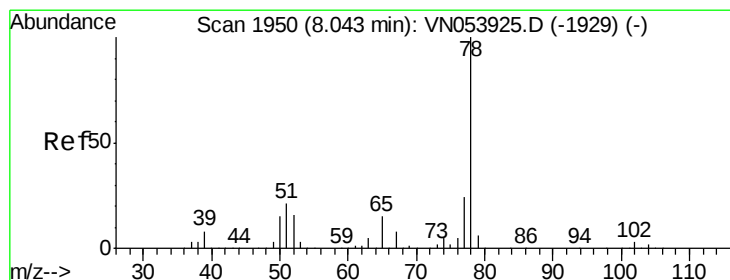
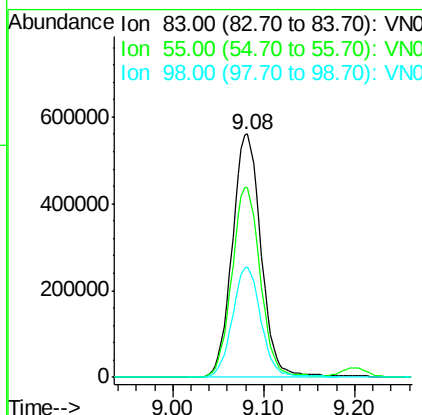
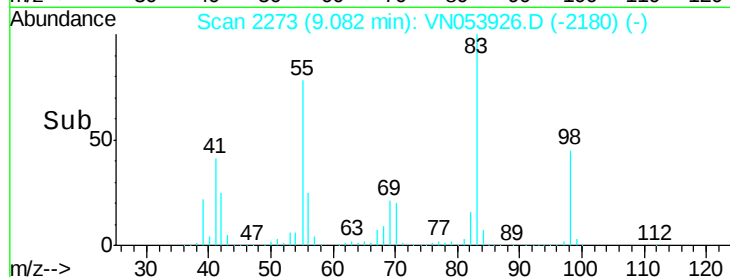
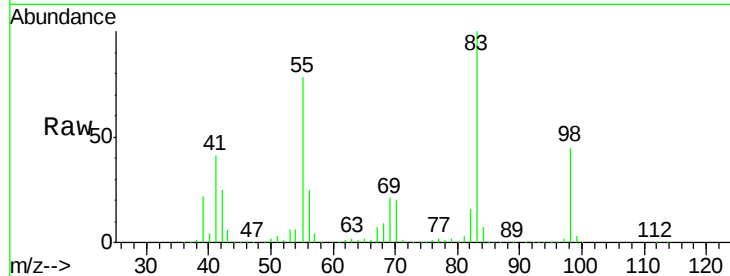
#39
Methvlcvclohexane
Concen: 103.284 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 83 Resp: 1235478
Ion Ratio Lower Upper
83 100
55 77.9 58.2 87.4
98 45.5 37.2 55.8

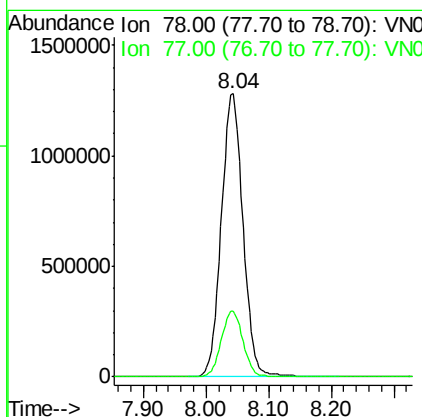
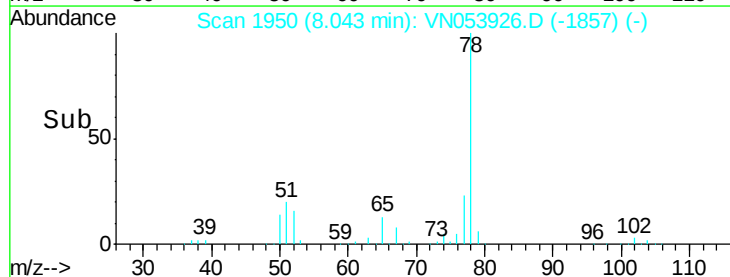
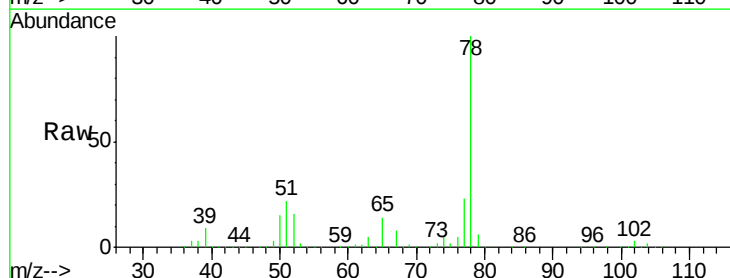
Manual Integrations
APPROVED

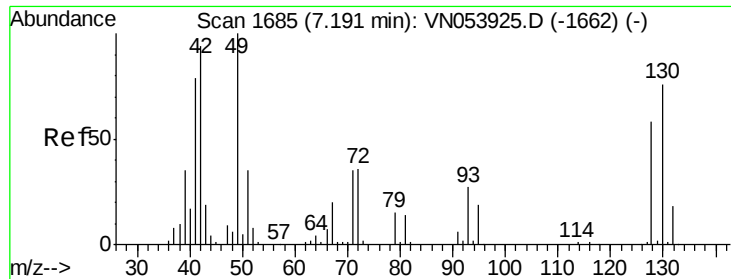
MMDadoda
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#40
Benzene
Concen: 100.658 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Tgt Ion: 78 Resp: 3068911
Ion Ratio Lower Upper
78 100
77 23.3 18.8 28.2





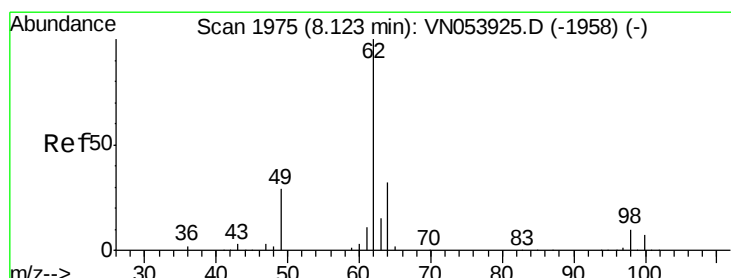
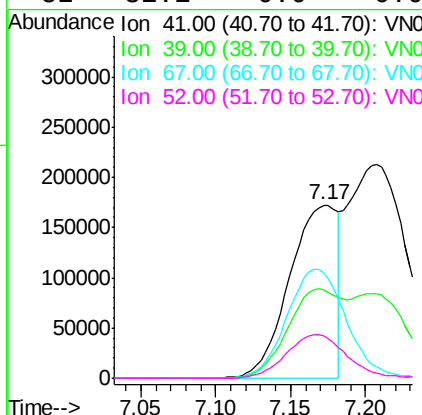
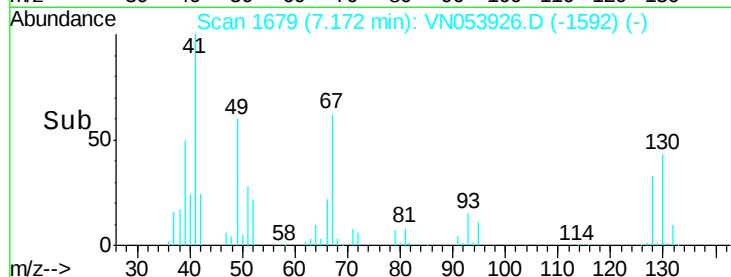
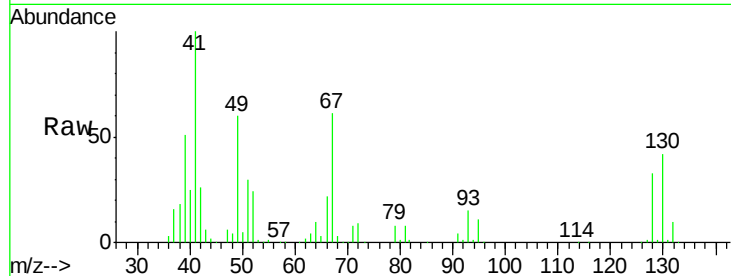
#41
Methacrylonitrile
Concen: 83.772 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.02 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
41	100		
39	59.8	0.0	0.0#
67	78.5	0.0	0.0#
52	31.1	0.0	0.0#

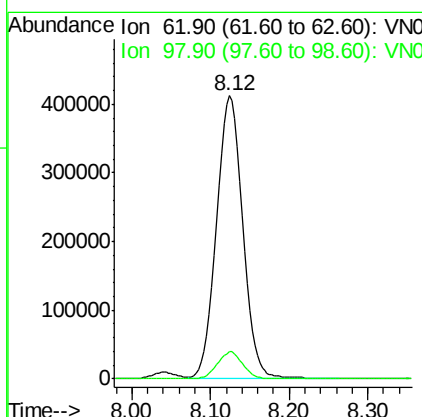
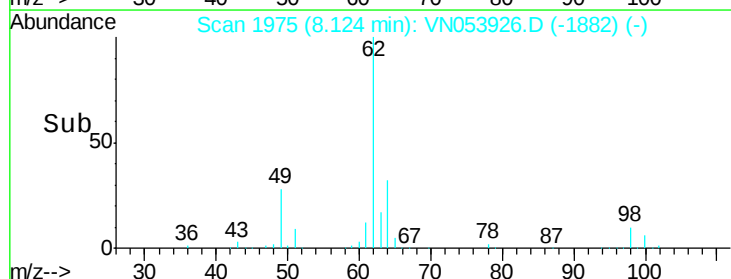
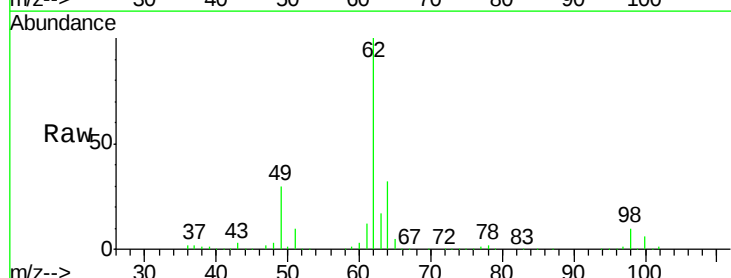
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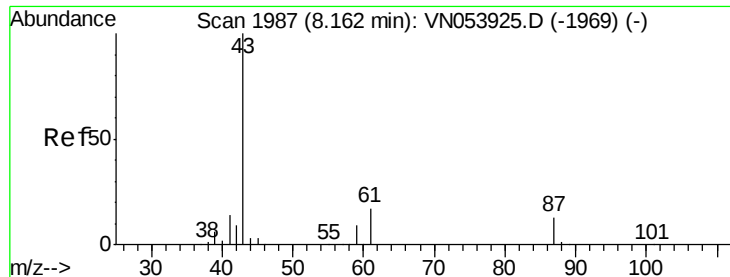
MMDadoda
2/28/2019 10:48:11 AM



#42
1,2-Dichloroethane
Concen: 100.422 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	20.8





#43

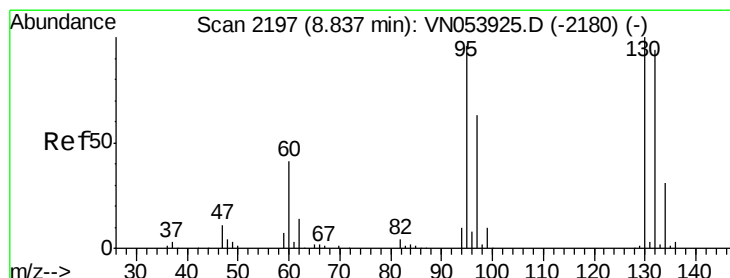
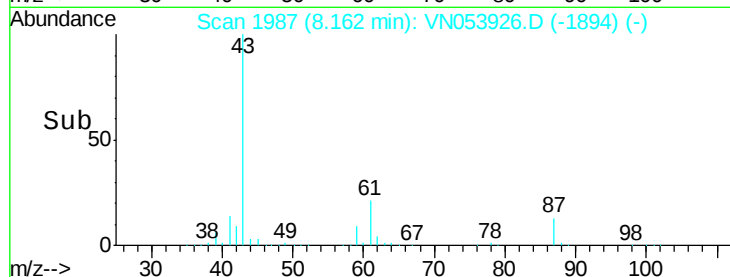
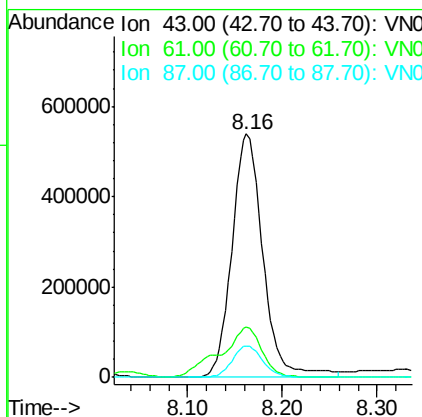
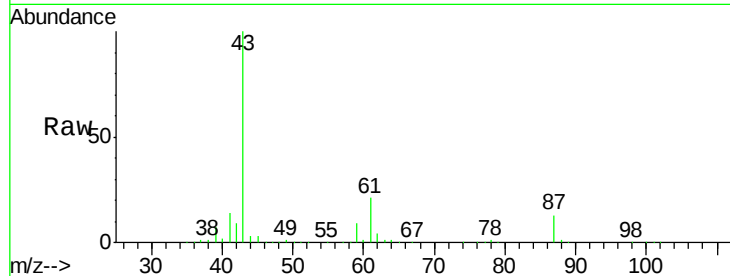
Isopropyl Acetate
 Concen: 102.661 ug/l
 RT: 8.16 min Scan# 1987
 Delta R.T. 0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.5	17.4	26.0
87	12.7	11.5	17.3

Manual Integrations
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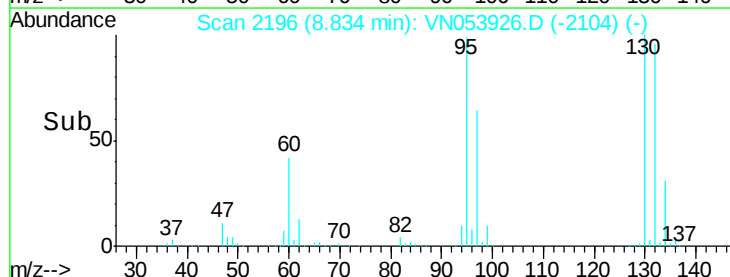
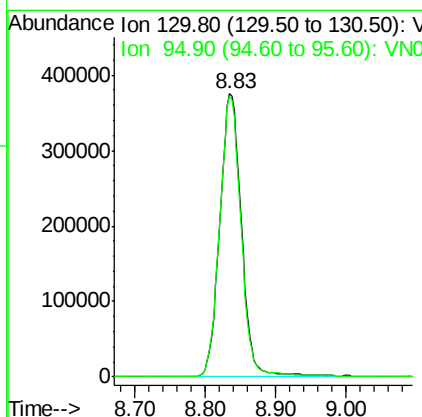
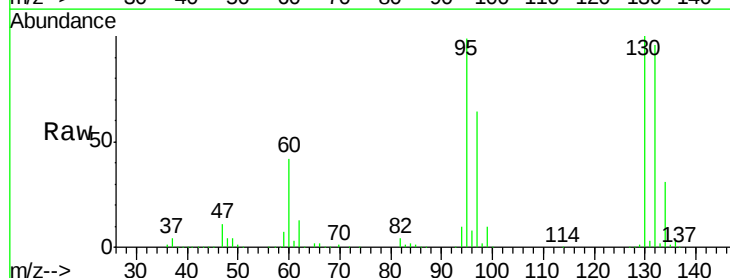
MMDadoda
 2/28/2019 10:48:11 AM

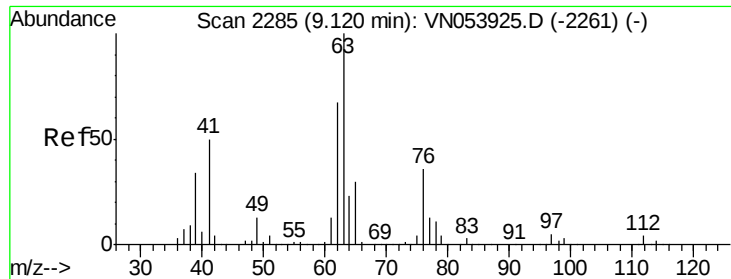


#44

Trichloroethene
 Concen: 99.852 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.3	0.0	190.0





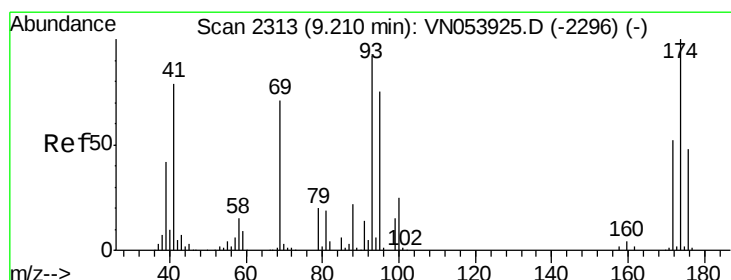
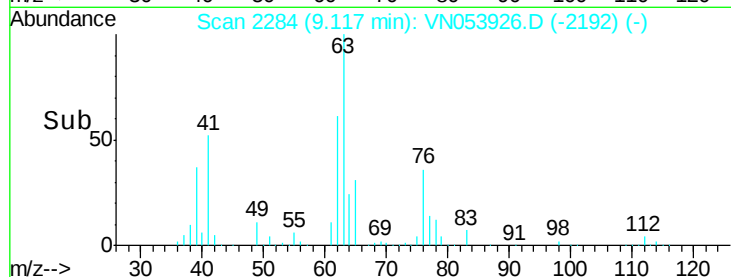
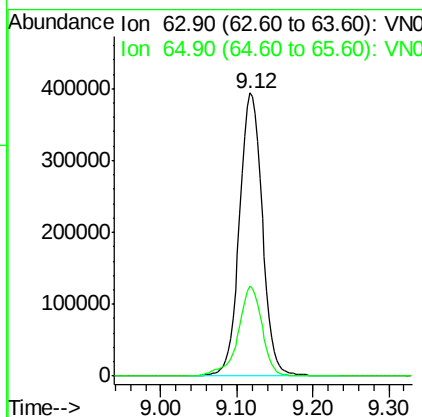
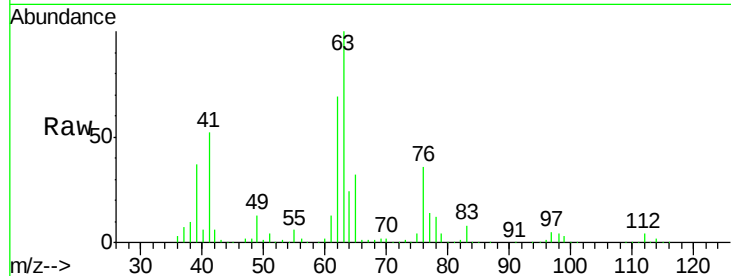
#45
 1,2-Dichloropropane
 Concen: 99.859 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 63 Resp: 821402
 Ion Ratio Lower Upper
 63 100
 65 31.6 24.3 36.5

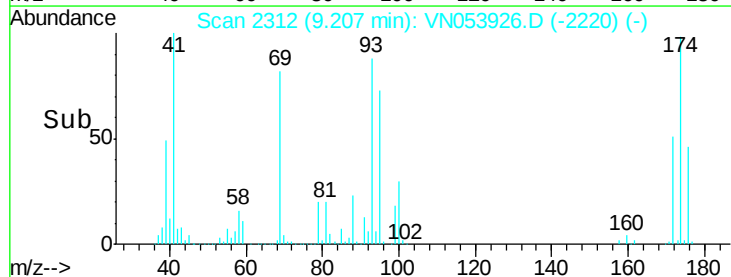
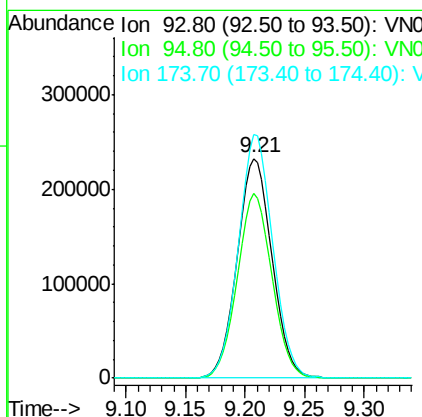
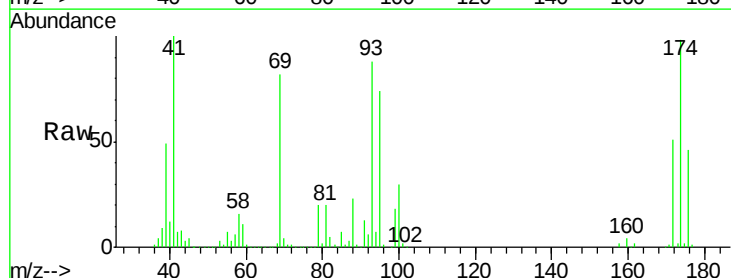
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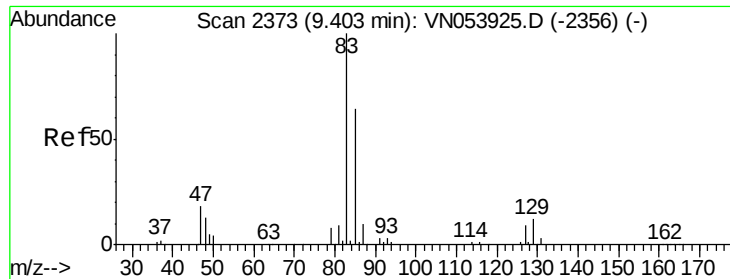
MMDadoda
 2/28/2019 10:48:11 AM



#46
 Dibromomethane
 Concen: 98.960 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Tgt Ion: 93 Resp: 472579
 Ion Ratio Lower Upper
 93 100
 95 83.4 66.6 100.0
 174 109.8 96.2 144.4





#47

Bromodichloromethane

Concen: 101.080 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 1017254

Ion Ratio Lower Upper

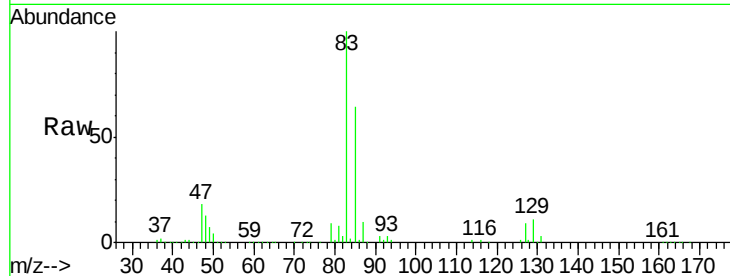
83 100

85 63.8 51.8 77.6

127 8.7 7.4 11.0

Manual Integrations
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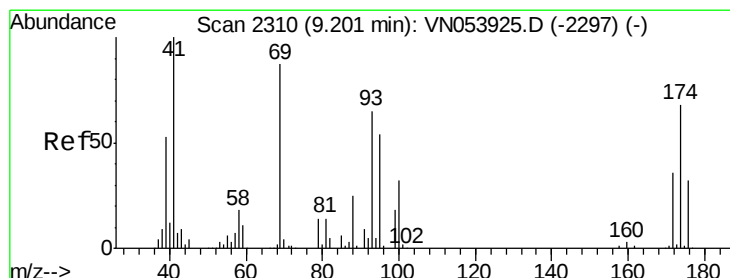
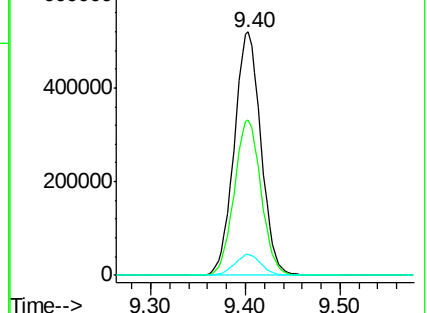
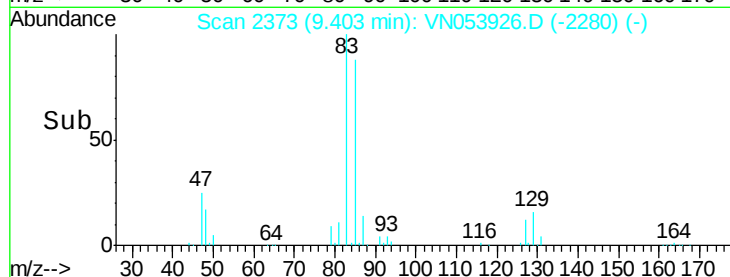
MMDadoda
2/28/2019 10:48:11 AM



Abundance Ion 82.90 (82.60 to 83.60): VN053926.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN053926.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN053926.D (-2280) (-)



#48

Methyl methacrylate

Concen: 110.163 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

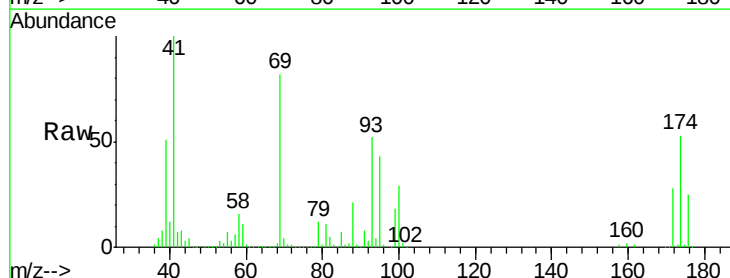
Tgt Ion: 41 Resp: 606285

Ion Ratio Lower Upper

41 100

69 87.5 74.8 112.2

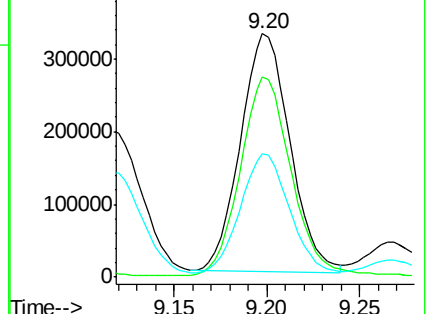
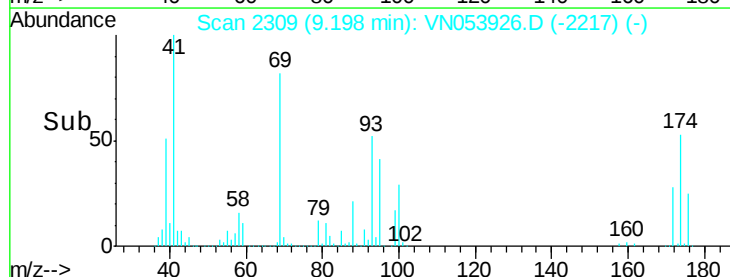
39 53.1 39.0 58.6

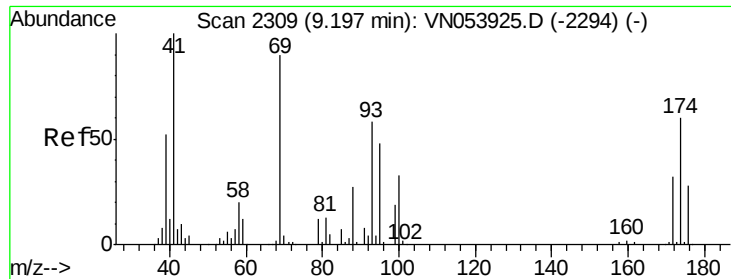


Abundance Ion 41.00 (40.70 to 41.70): VN053926.D (-2217) (-)

Ion 69.00 (68.70 to 69.70): VN053926.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN053926.D (-2217) (-)





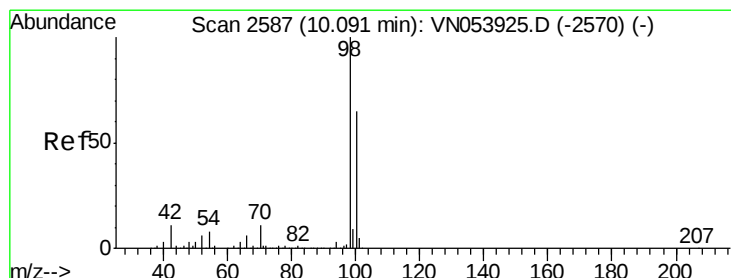
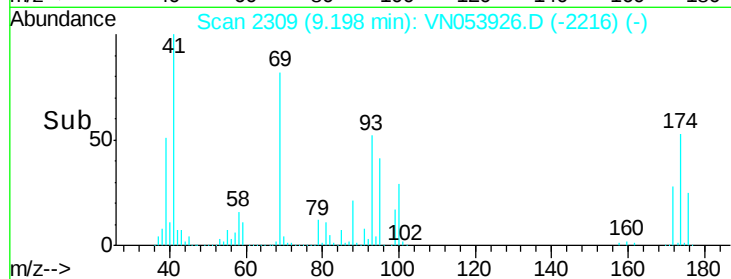
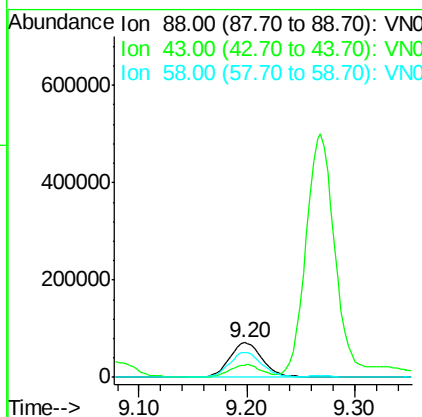
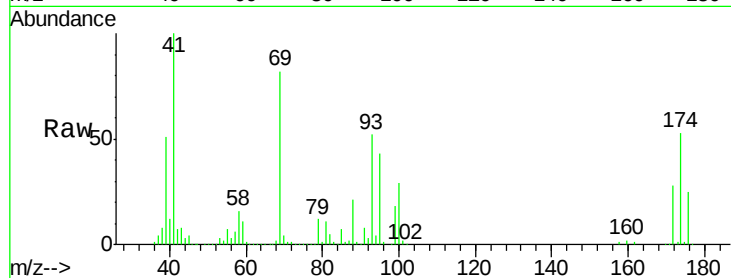
#49
1,4-Dioxane
Concen: 2048.593 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
88	100	152705		
43	31.7	21.2	31.8	
58	71.2	54.2	81.2	

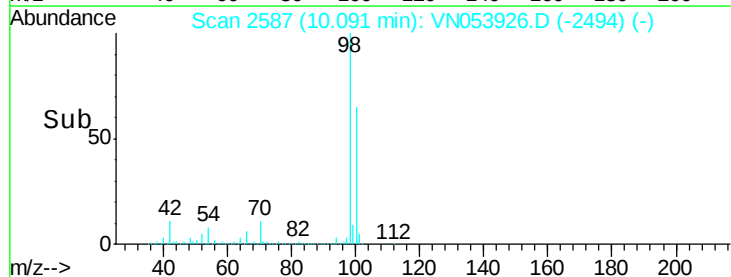
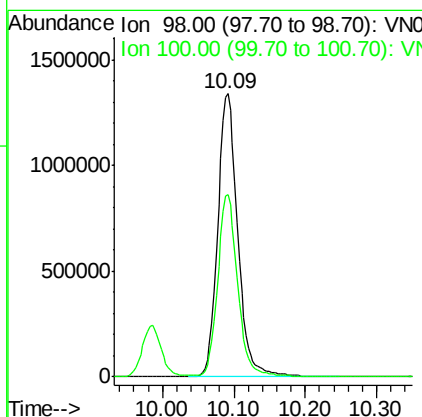
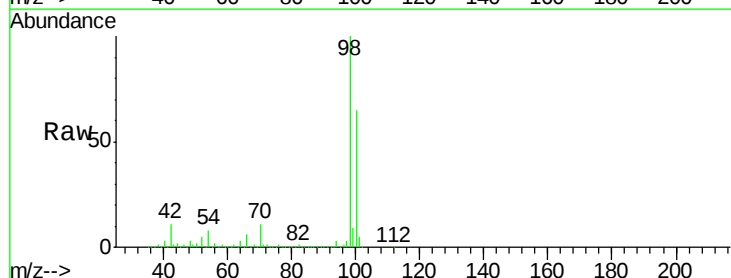
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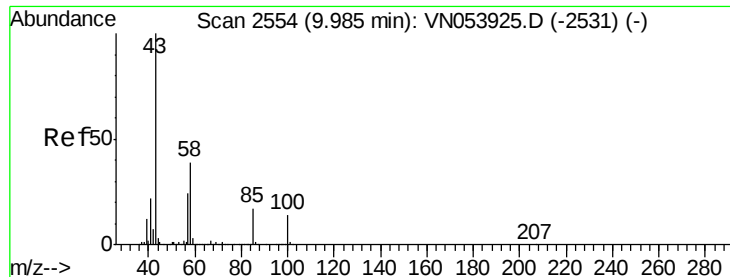
MMDadoda
2/28/2019 10:48:11 AM



#50
Toluene-d8
Concen: 101.324 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	2602986		
100	64.5	51.9	77.9	





#51

4-Methyl-2-Pentanone

Concen: 542.479 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 3335375

Ion Ratio Lower Upper

43 100

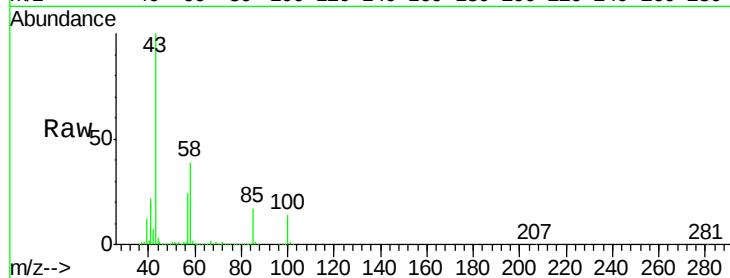
58 38.7 32.7 49.1

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Abundance Ion 43.00 (42.70 to 43.70): VN053925.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN053925.D (-2531) (-)

2000000

1500000

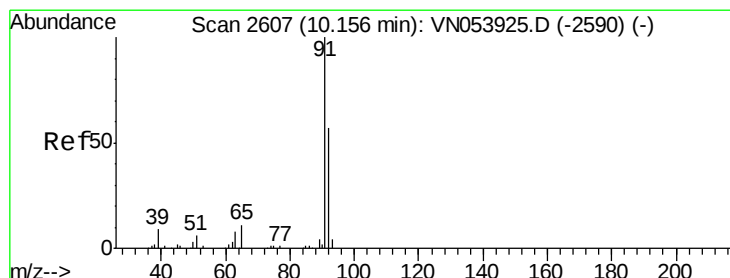
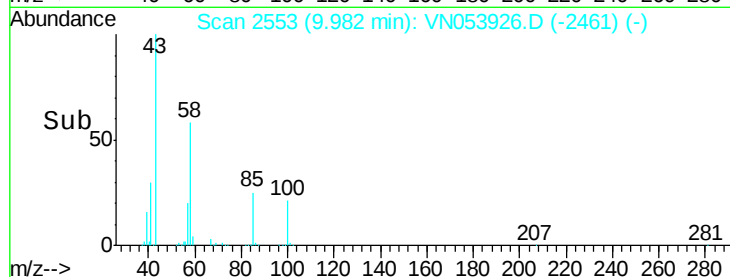
1000000

500000

0

9.90 9.95 10.00 10.05 10.10

Time-->



#52

Toluene

Concen: 103.096 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053926.D

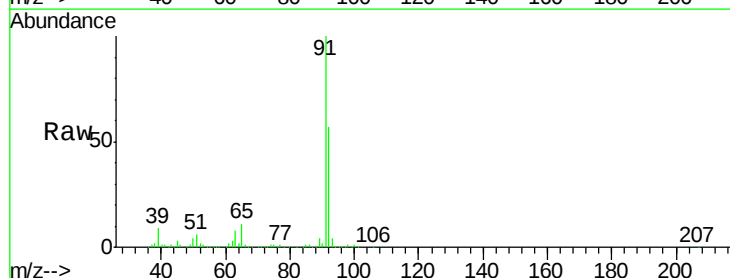
Acq: 25 Feb 2019 13:30

Tgt Ion: 92 Resp: 1850848

Ion Ratio Lower Upper

92 100

91 175.9 138.4 207.6



Abundance Ion 92.00 (91.70 to 92.70): VN053925.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VN053925.D (-2590) (-)

2000000

1500000

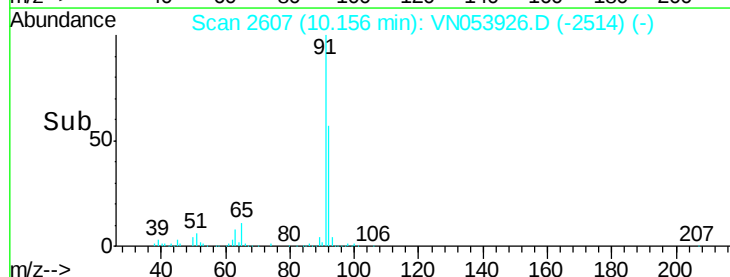
1000000

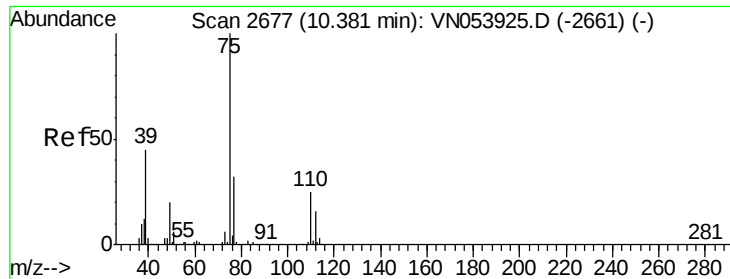
500000

0

10.00 10.10 10.20 10.30

Time-->





#53

t-1,3-Dichloropropene

Concen: 110.535 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 75 Resp: 1082371

Ion Ratio Lower Upper

75 100

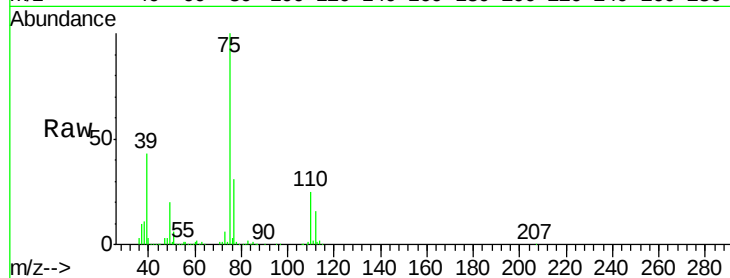
77 31.4 25.0 37.6

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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.38

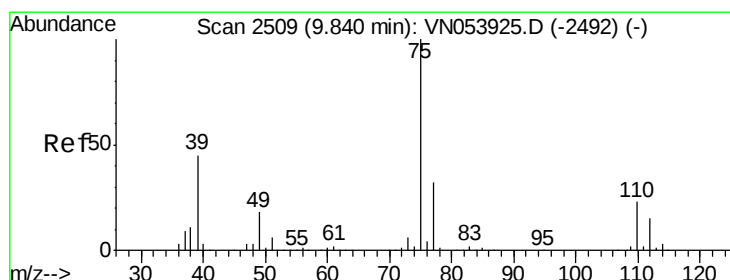
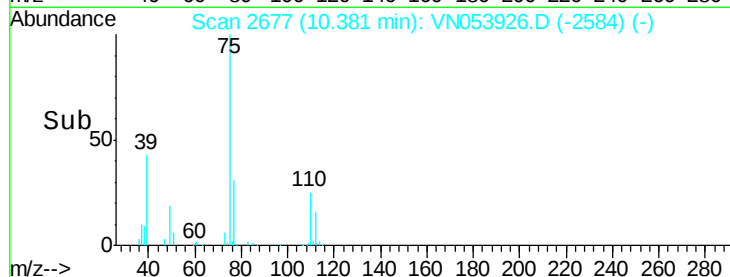
600000

400000

200000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 106.703 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

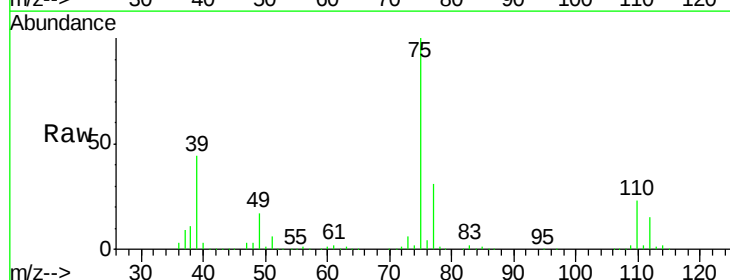
Tgt Ion: 75 Resp: 1231751

Ion Ratio Lower Upper

75 100

77 31.4 25.8 38.6

39 44.2 31.4 47.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.84

800000

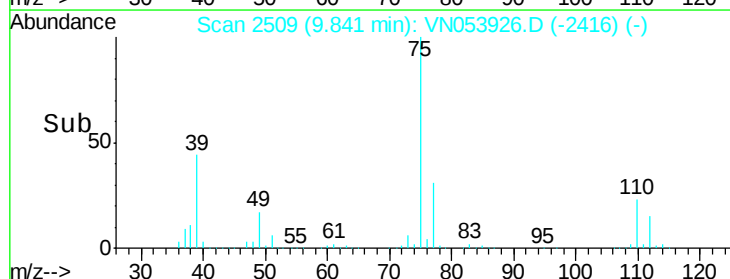
600000

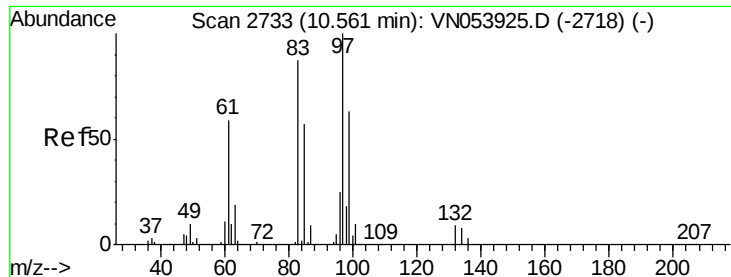
400000

200000

0

Time-->





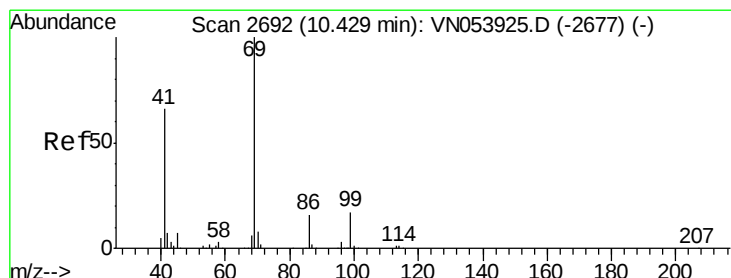
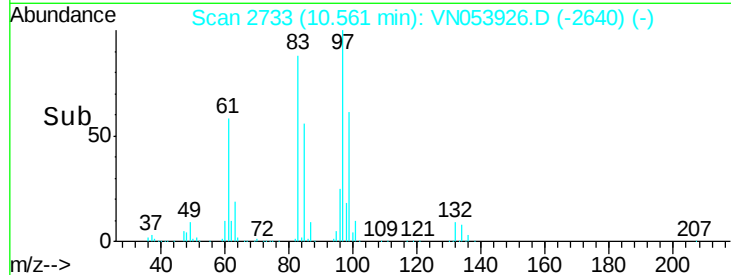
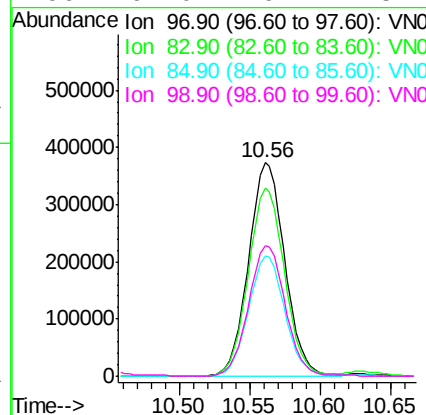
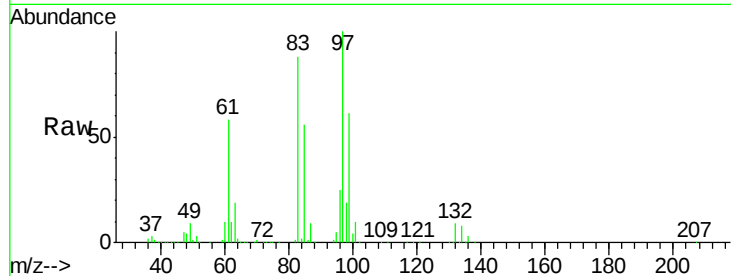
#55
 1,1,2-Trichloroethane
 Concen: 100.286 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.1	69.5	104.3
85	56.2	45.9	68.9
99	61.0	49.1	73.7

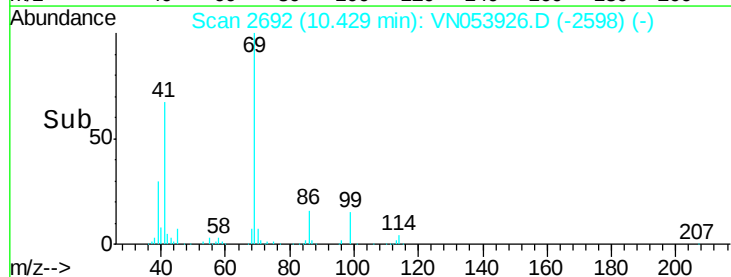
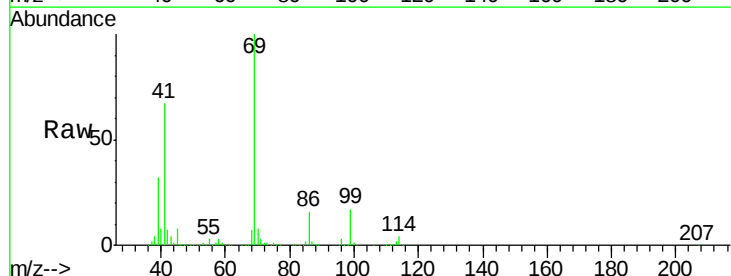
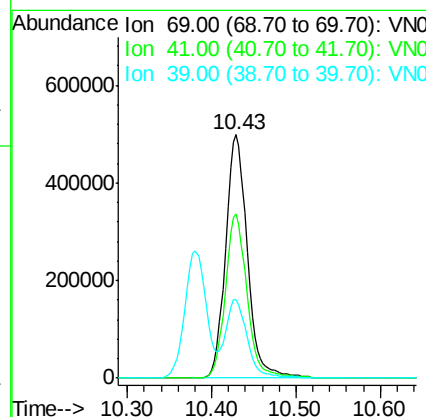
Manual Integrations
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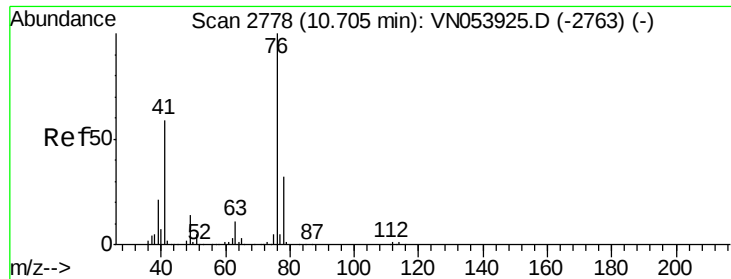
MMDadoda
 2/28/2019 10:48:11 AM



#56
 Ethyl methacrylate
 Concen: 114.192 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Tgt Ion	Ratio	Lower	Upper
69	100		
41	66.9	47.5	71.3
39	32.1	23.4	35.0





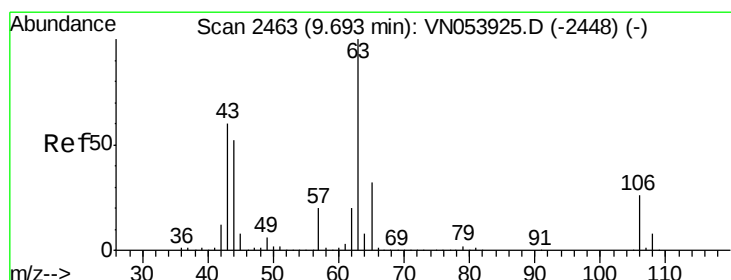
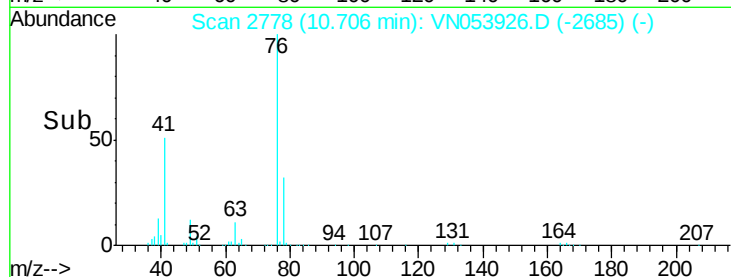
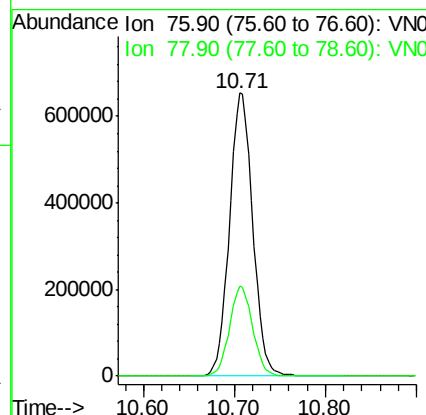
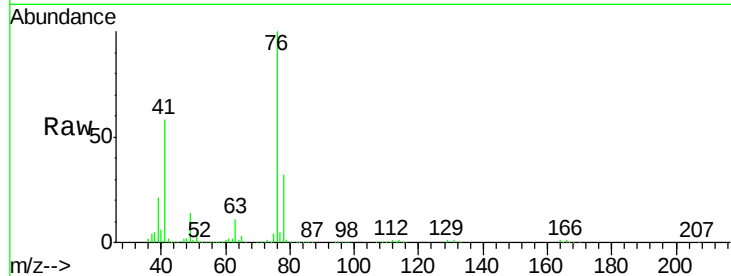
#57
 1,3-Dichloropropane
 Concen: 102.407 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 76 Resp: 1160095
 Ion Ratio Lower Upper
 76 100
 78 31.8 25.2 37.8

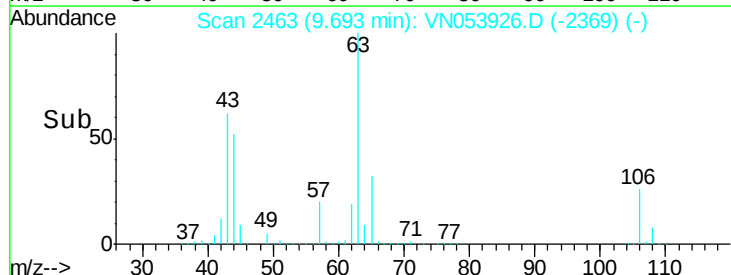
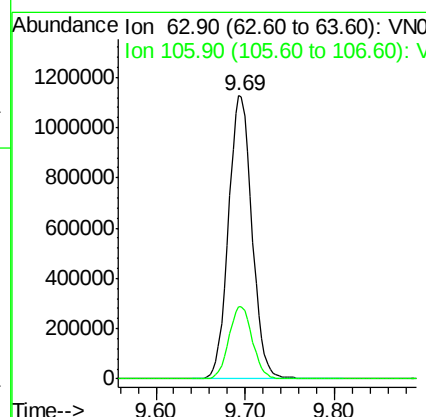
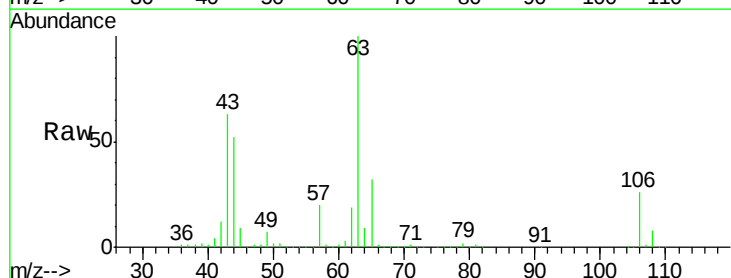
Manual Integrations
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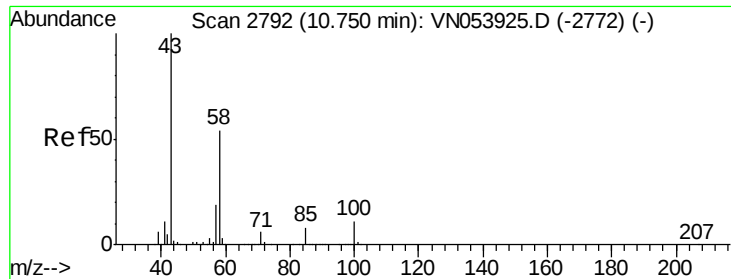
MMDadoda
 2/28/2019 10:48:11 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 592.988 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. 0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Tgt Ion: 63 Resp: 2053982
 Ion Ratio Lower Upper
 63 100
 106 25.6 22.2 33.2





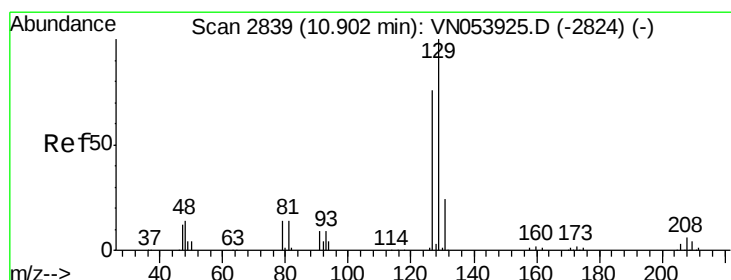
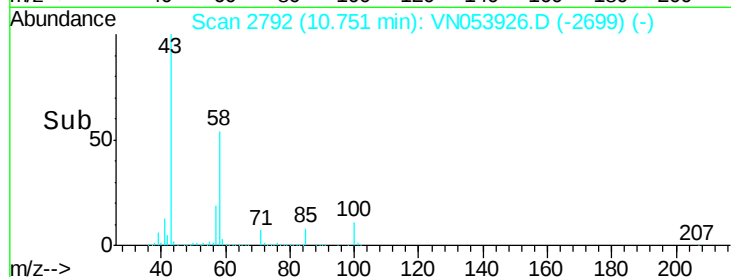
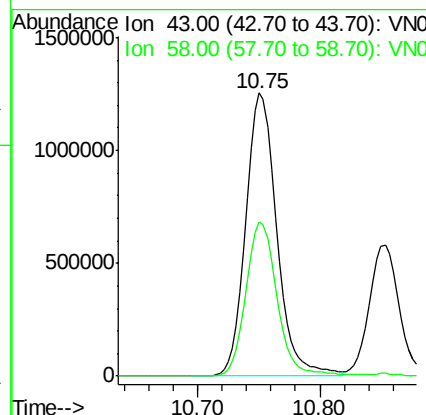
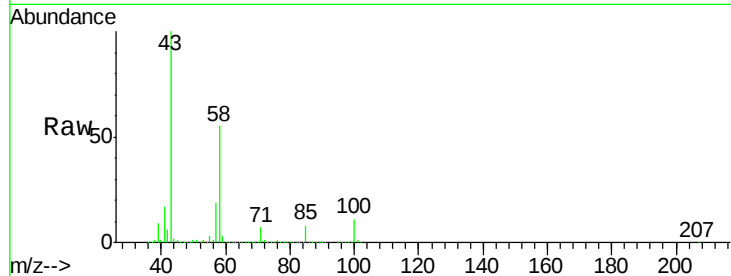
#59
2-Hexanone
Concen: 549.121 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 43 Resp: 2195831
Ion Ratio Lower Upper
43 100
58 54.7 29.1 87.4

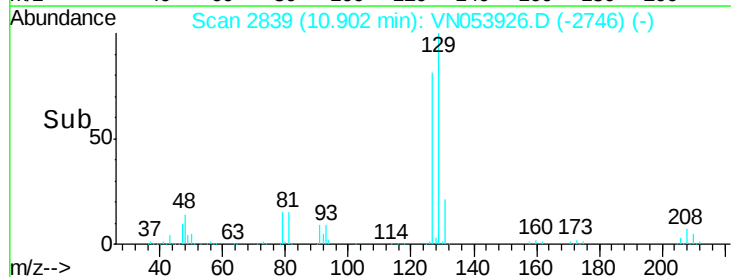
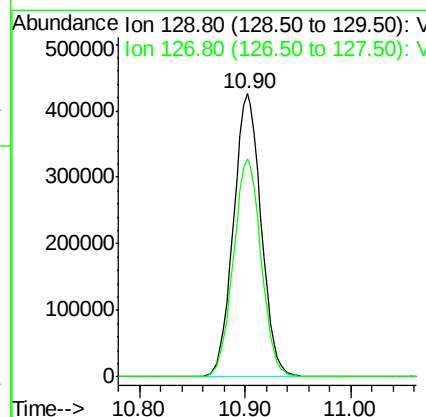
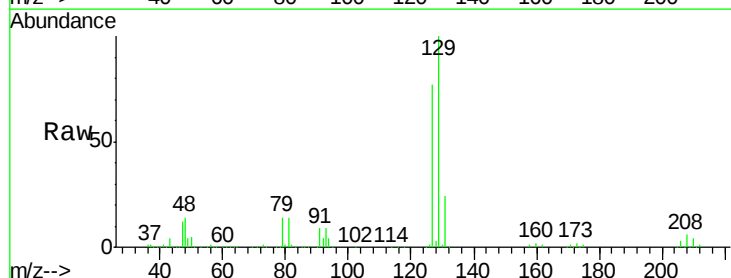
Manual Integrations
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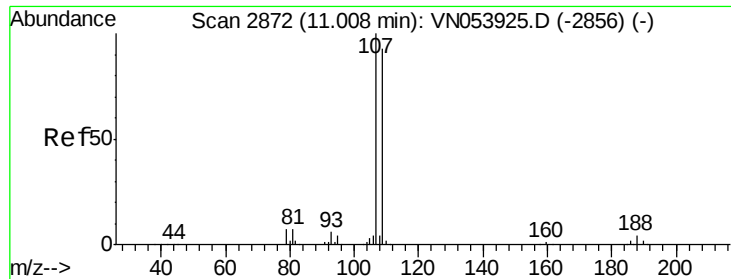
MMDadoda
2/28/2019 10:48:11 AM



#60
Dibromochloromethane
Concen: 103.333 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Tgt Ion: 129 Resp: 769958
Ion Ratio Lower Upper
129 100
127 77.3 38.8 116.3





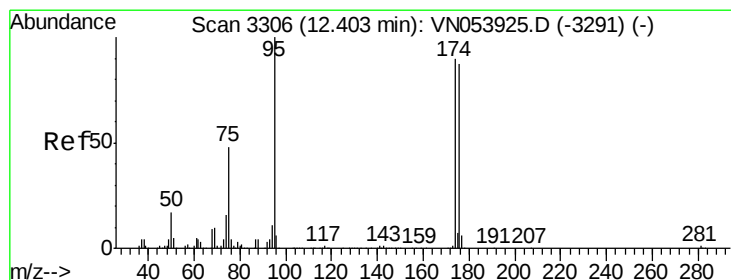
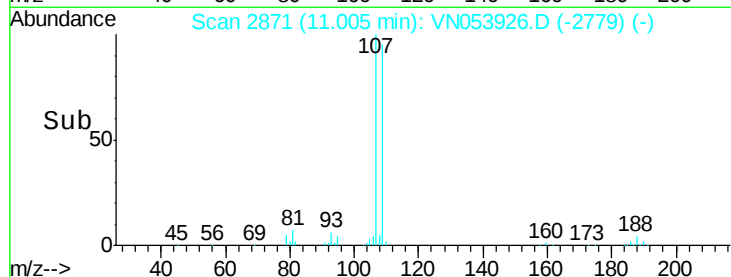
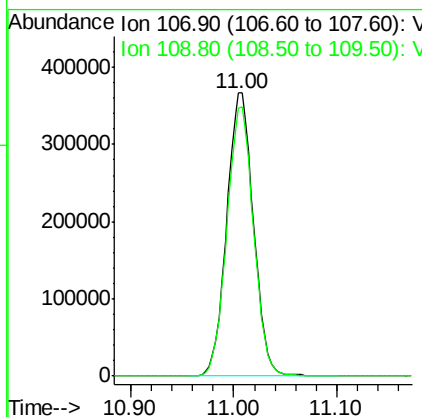
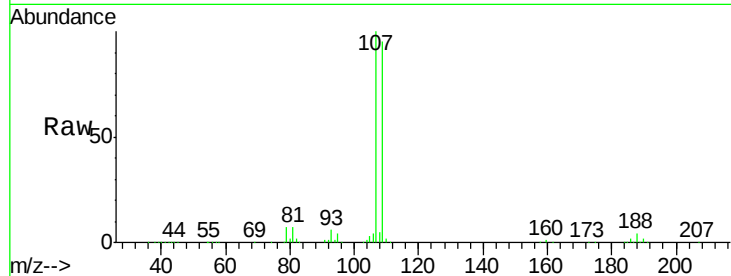
#61
 1,2-Dibromoethane
 Concen: 102.604 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.0	76.3	114.5

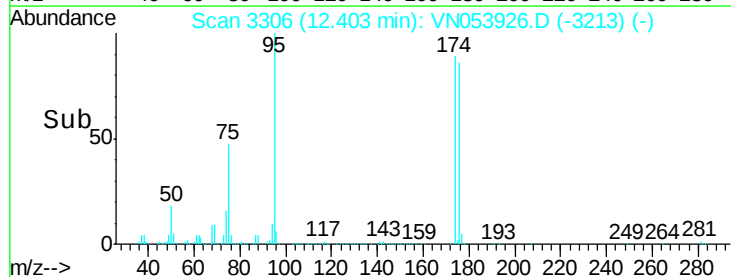
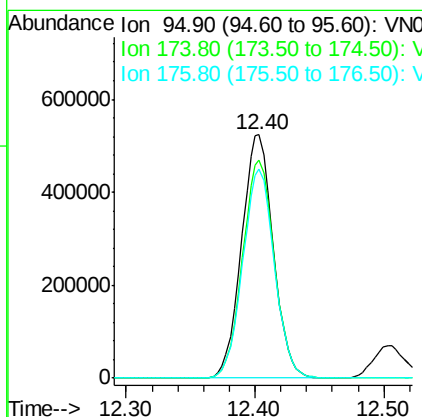
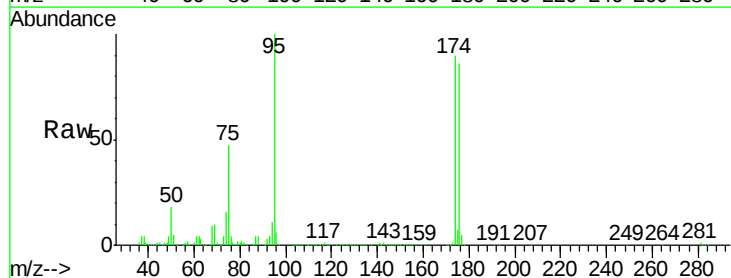
Manual Integrations
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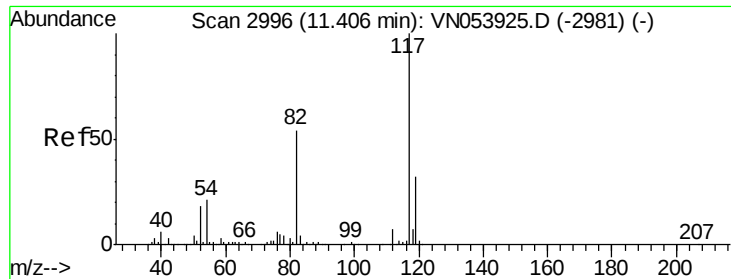
MMDadoda
 2/28/2019 10:48:11 AM



#62
 4-Bromofluorobenzene
 Concen: 104.391 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.7	0.0	188.8
176	86.0	0.0	182.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

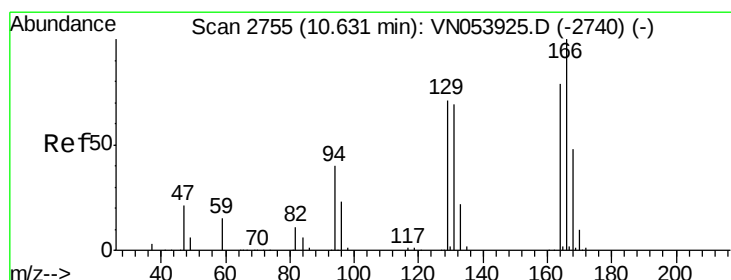
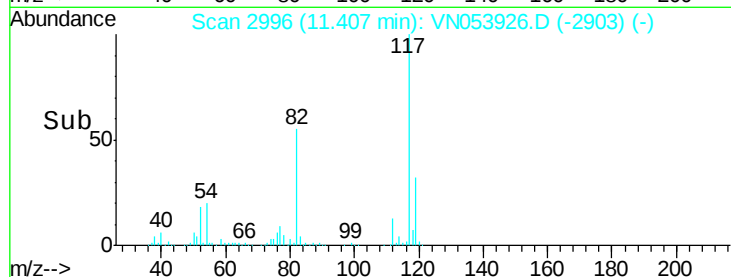
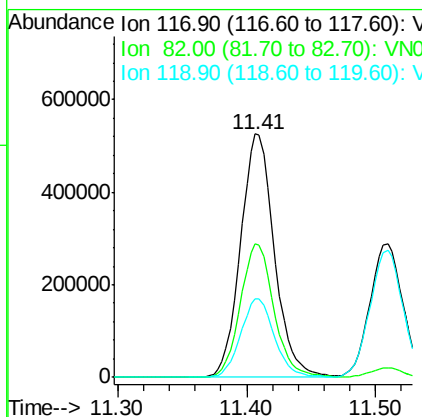
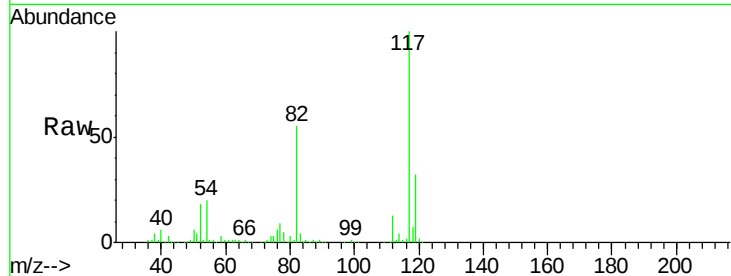
ClientSampleId :

VSTDIC100

Tot Ion:	117	Resp:	962097
Ion Ratio		Lower	Upper
117	100		
82	54.8	41.4	62.2
119	32.2	25.3	37.9

Manual Integrations
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#64

Tetrachloroethene

Concen: 93.523 ug/l

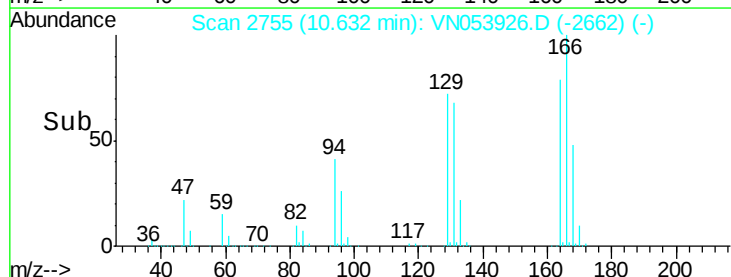
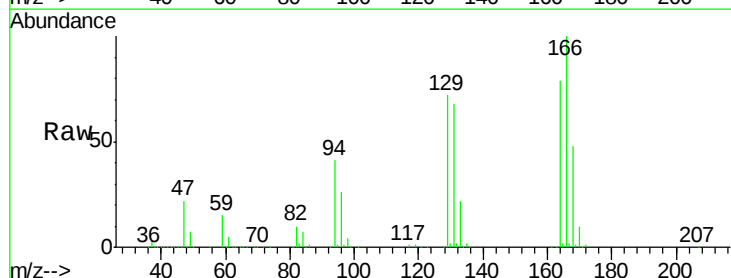
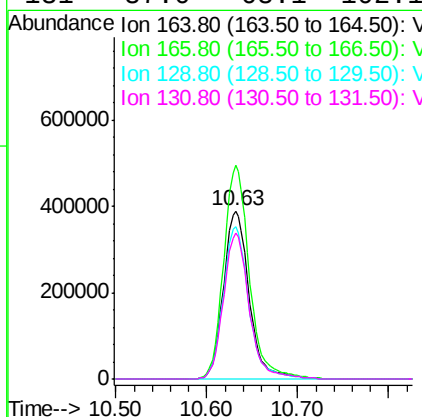
RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Tgt Ion:	164	Resp:	761918
Ion Ratio		Lower	Upper
164	100		
166	127.2	102.6	153.8
129	91.0	69.4	104.0
131	87.0	68.1	102.1





#65

Chlorobenzene

Concen: 98.840 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:112 Resp: 2006930

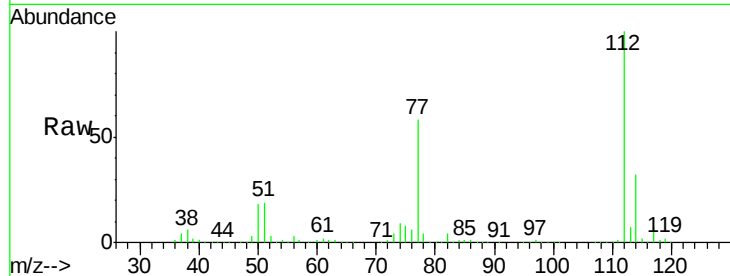
Ion Ratio Lower Upper

112 100

114 32.2 25.7 38.5

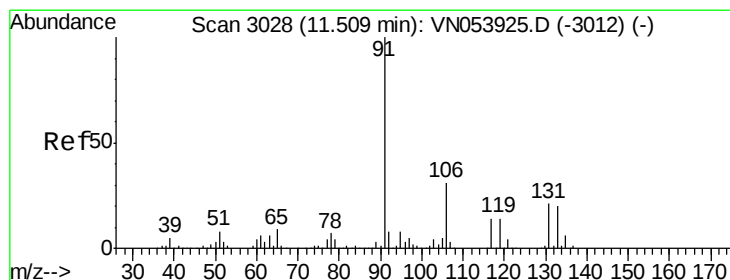
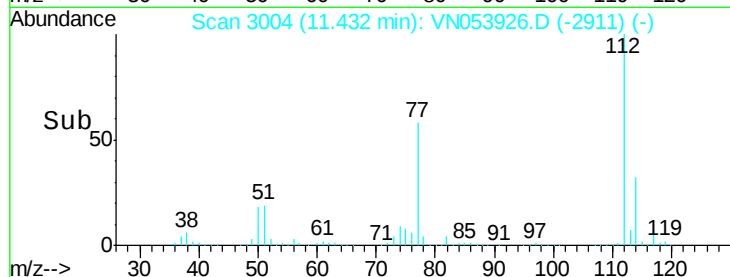
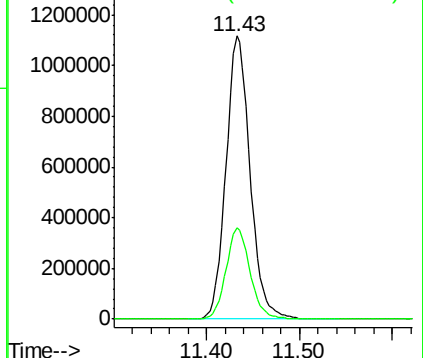
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 100.274 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

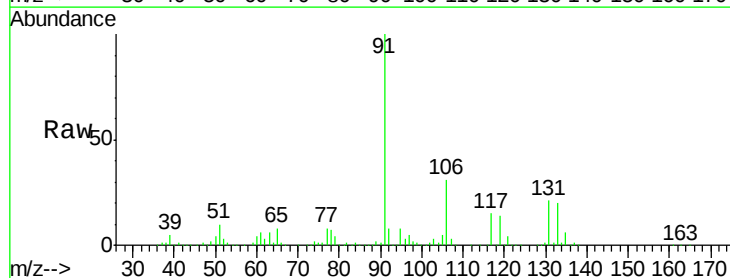
Tgt Ion:131 Resp: 733796

Ion Ratio Lower Upper

131 100

133 95.3 47.7 143.1

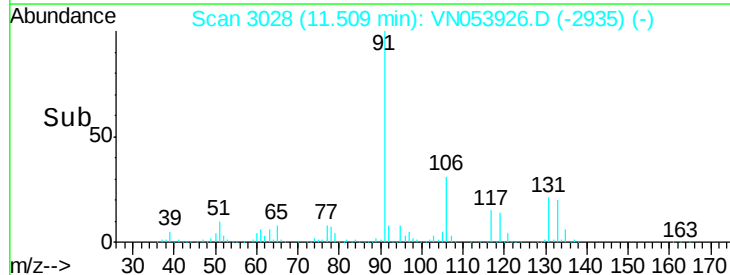
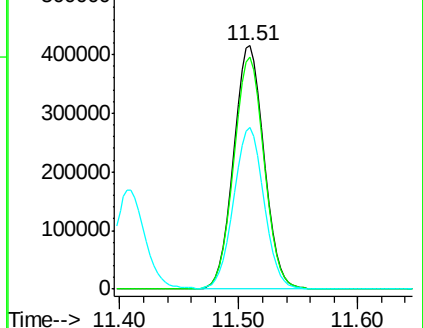
119 66.5 33.1 99.3

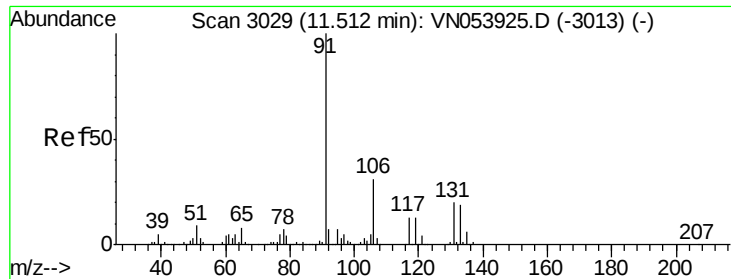


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





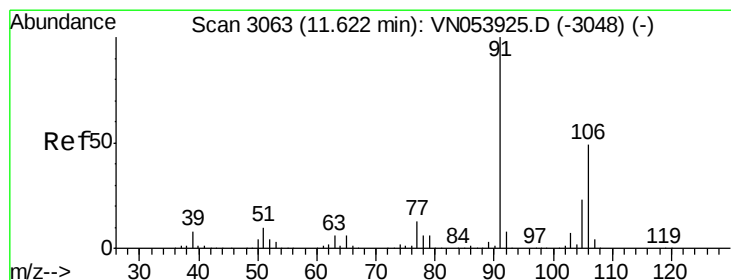
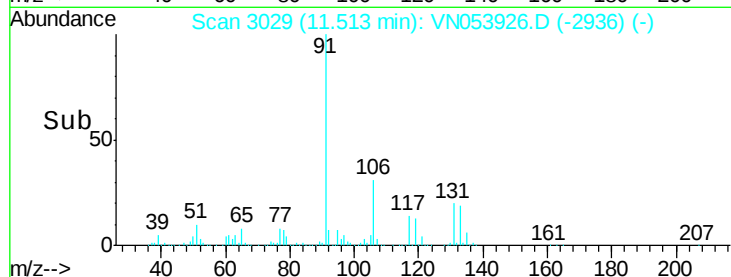
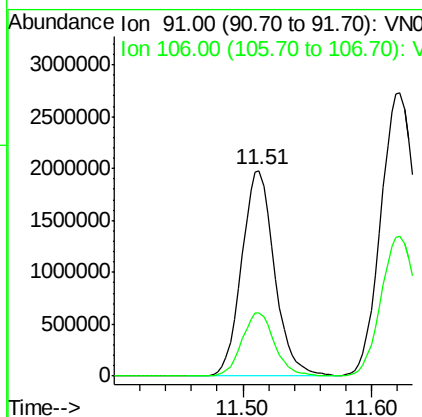
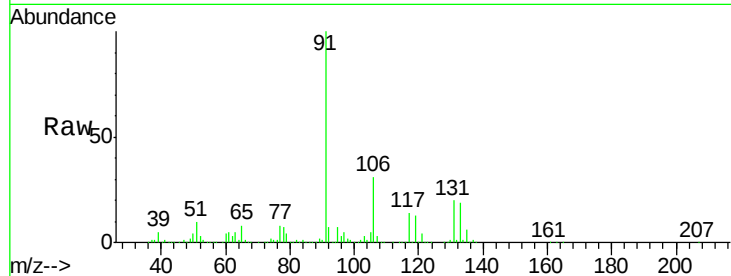
#67
Ethyl Benzene
Concen: 102.997 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 91 Resp: 3505960
Ion Ratio Lower Upper
91 100
106 31.0 25.2 37.8

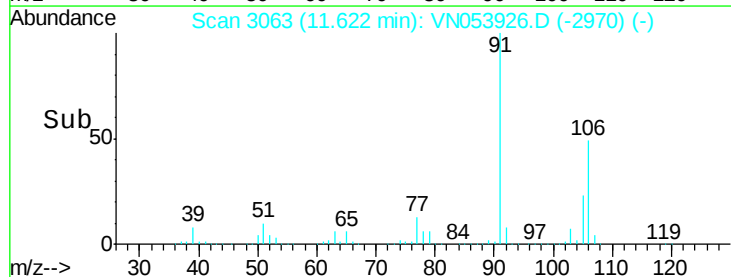
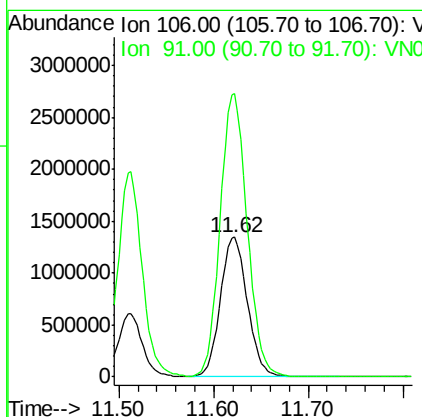
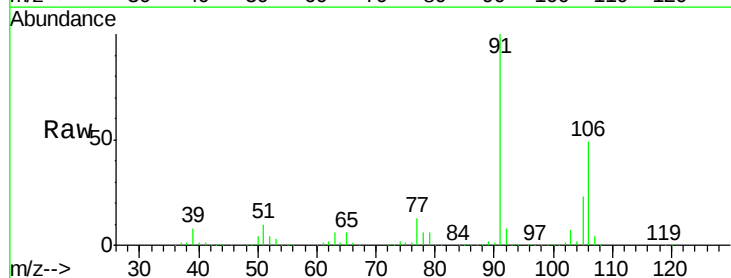
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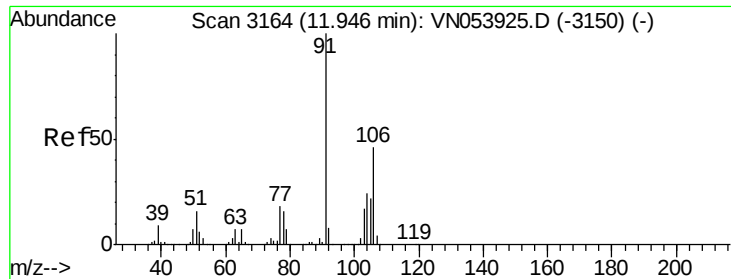
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#68
m/p-Xylenes
Concen: 207.599 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Tgt Ion: 106 Resp: 2667083
Ion Ratio Lower Upper
106 100
91 202.9 158.9 238.3





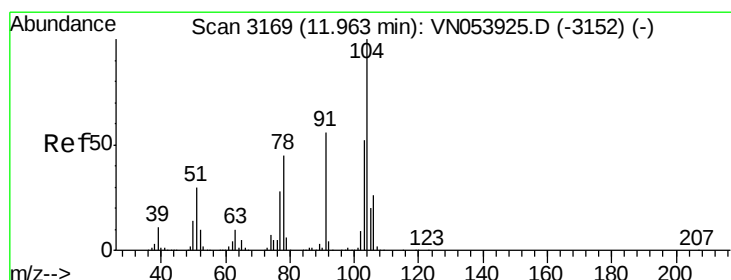
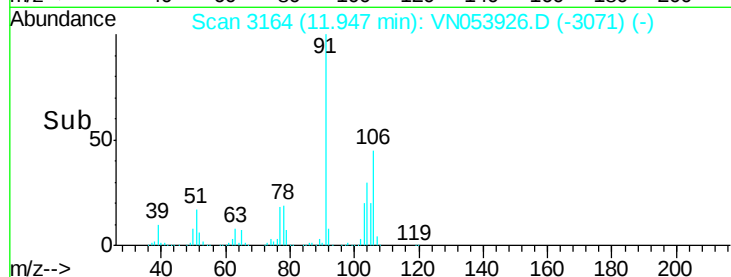
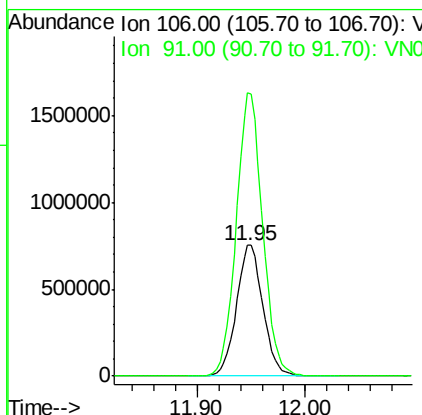
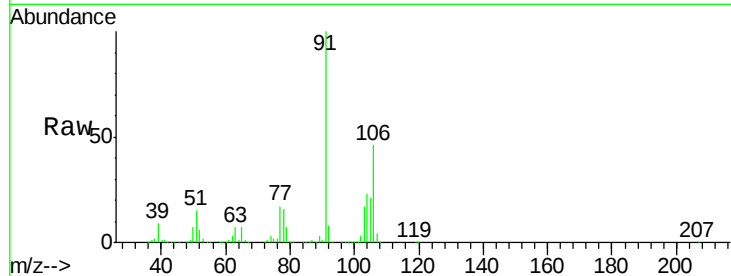
#69
o-Xylene
Concen: 101.924 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:106 Resp: 1286628
Ion Ratio Lower Upper
106 100
91 215.7 106.0 318.0

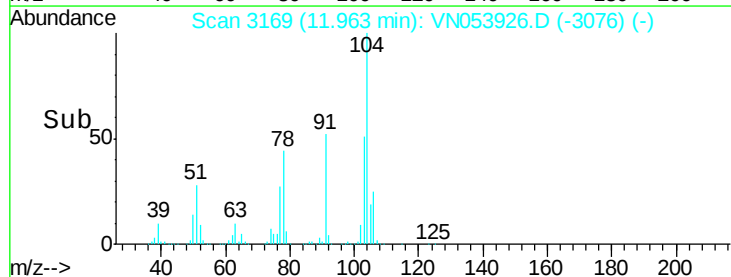
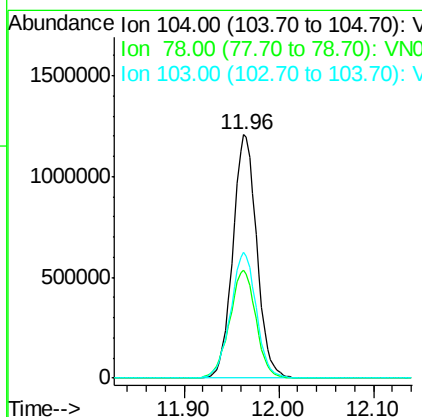
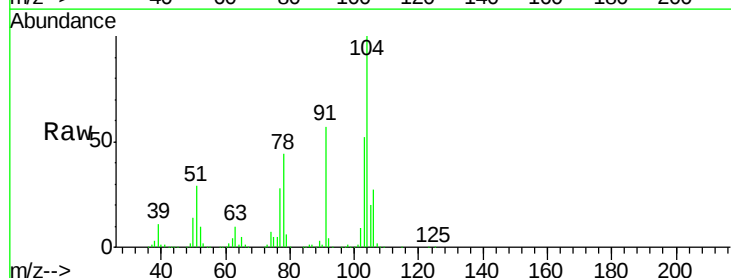
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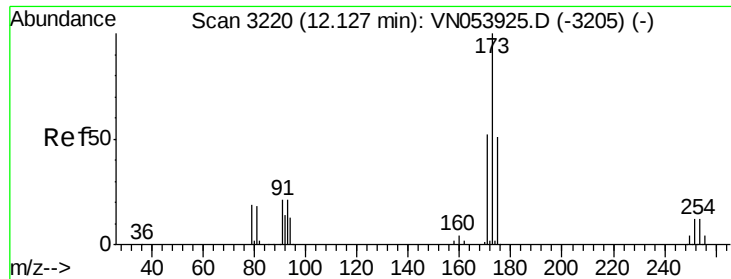
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#70
Styrene
Concen: 109.119 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Tgt Ion:104 Resp: 2118674
Ion Ratio Lower Upper
104 100
78 48.7 38.1 57.1
103 55.4 44.6 67.0





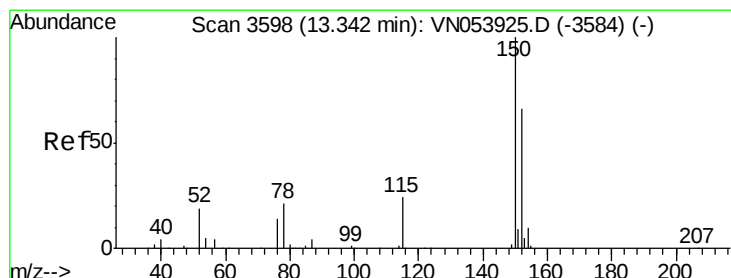
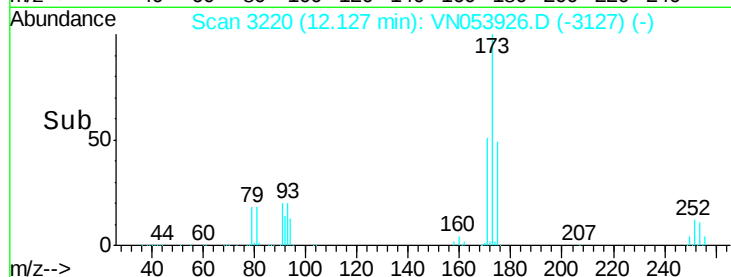
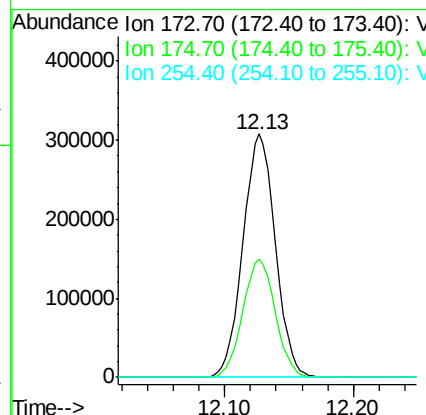
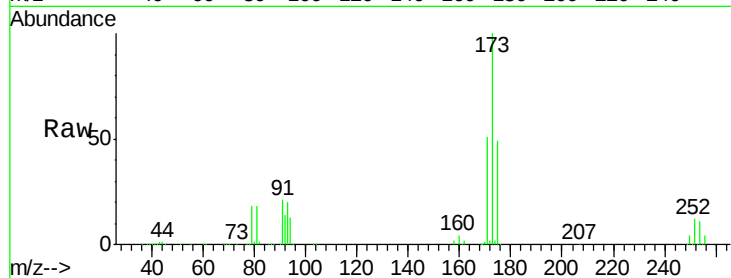
#71
Bromoform
Concen: 105.552 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.3	72.8
254	0.1	0.2	0.2

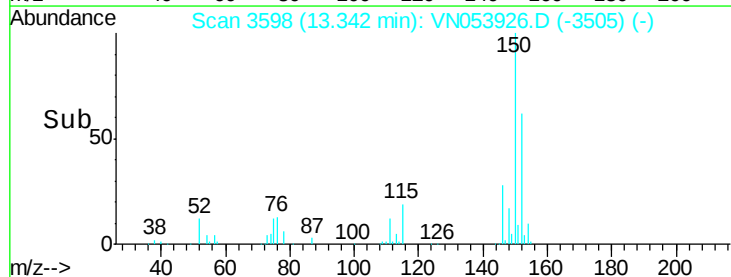
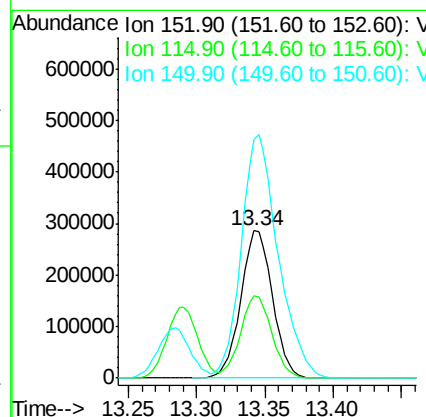
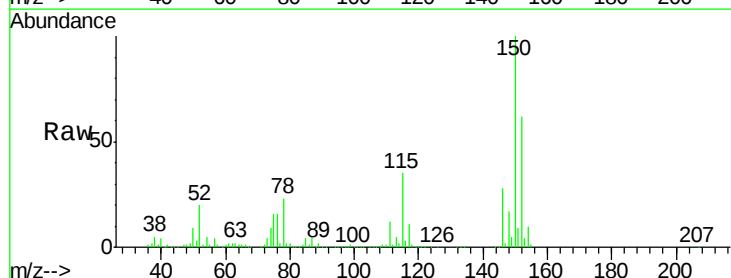
Manual Integrations
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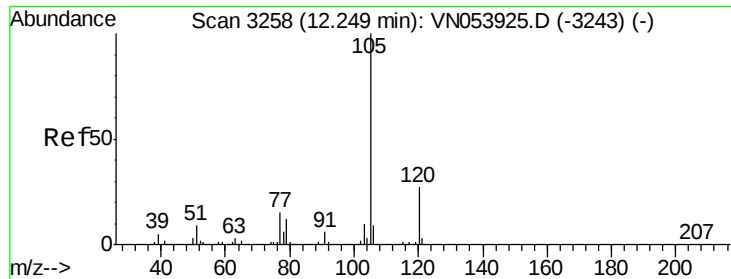
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.1	27.2	81.6
150	191.6	0.0	348.2





#73

Isopropylbenzene

Concen: 93.815 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 3367016

Ion Ratio Lower Upper

105 100

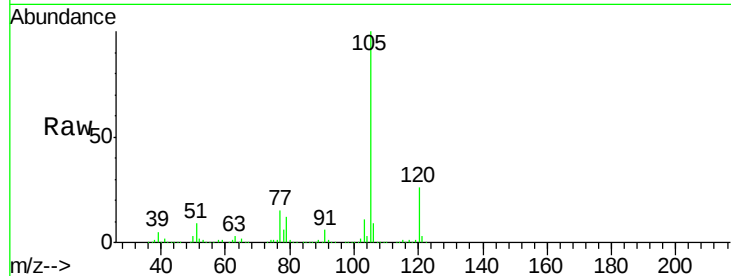
120 26.4 13.5 40.5

Manual Integrations

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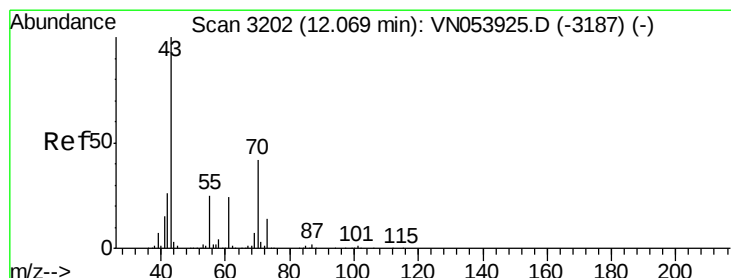
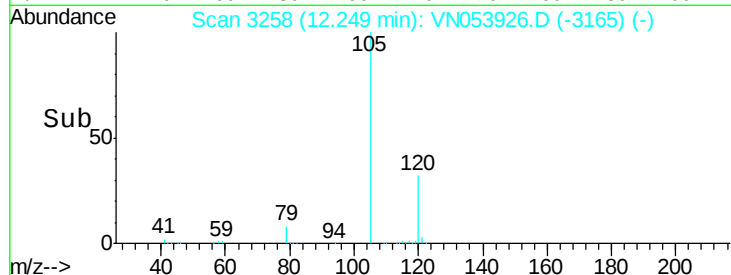
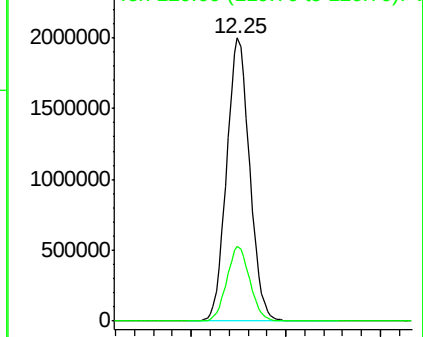
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 106.005 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Tgt Ion: 43 Resp: 997140

Ion Ratio Lower Upper

43 100

70 41.1 37.4 56.2

55 24.7 21.4 32.0

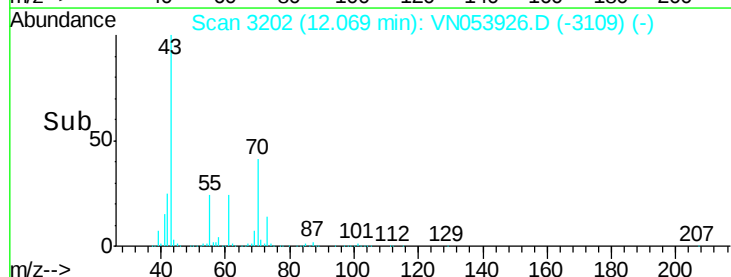
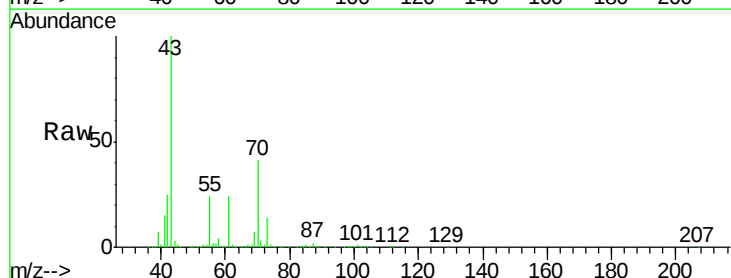
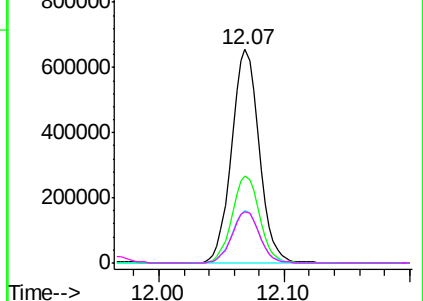
61 24.3 20.9 31.3

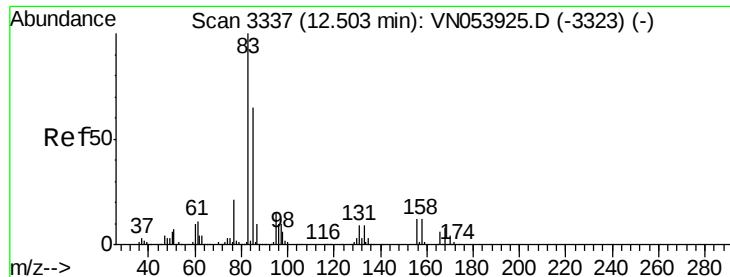
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 92.476 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 829958
Ion Ratio Lower Upper

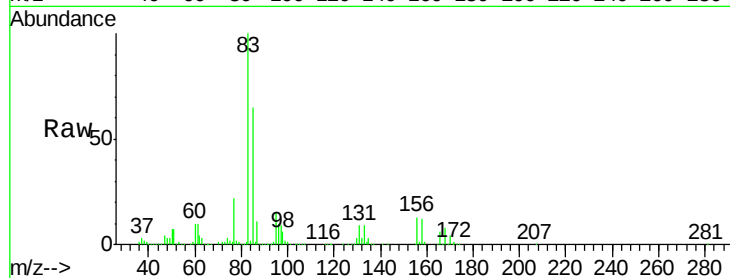
83 100

131 10.0 5.3 16.1

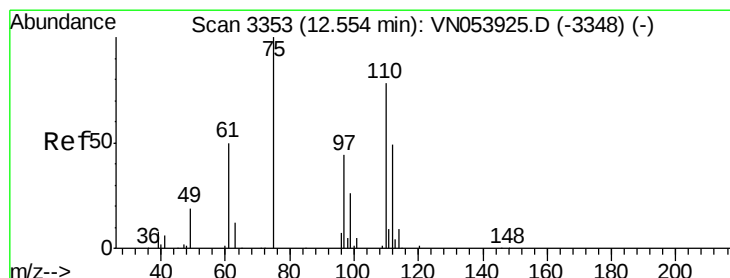
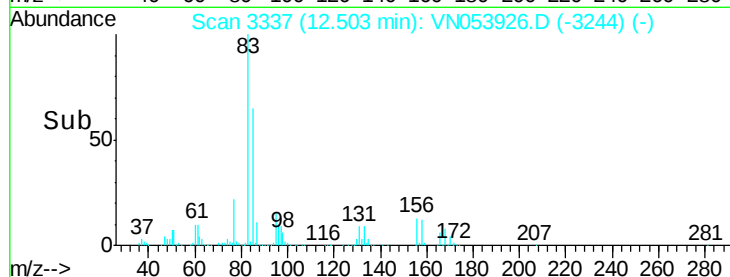
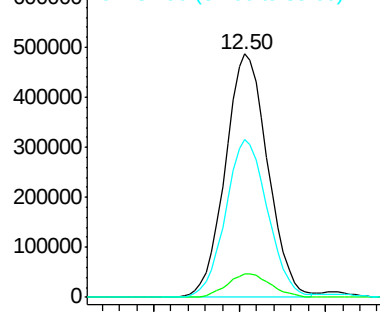
85 64.4 31.9 95.9

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Abundance Ion 82.90 (82.60 to 83.60): VN053925.D (-3323) (-)
Ion 130.80 (130.50 to 131.50): VN053925.D (-3323) (-)
Ion 84.90 (84.60 to 85.60): VN053925.D (-3323) (-)



#76

1,2,3-Trichloropropane

Concen: 93.120 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

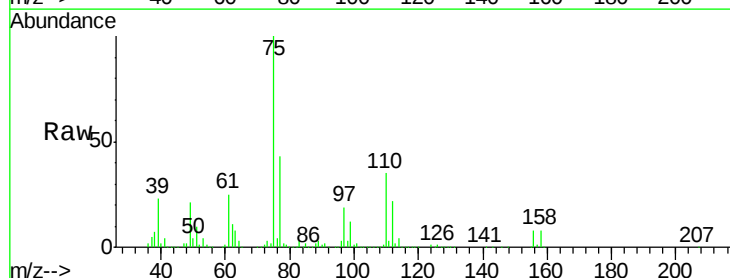
Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

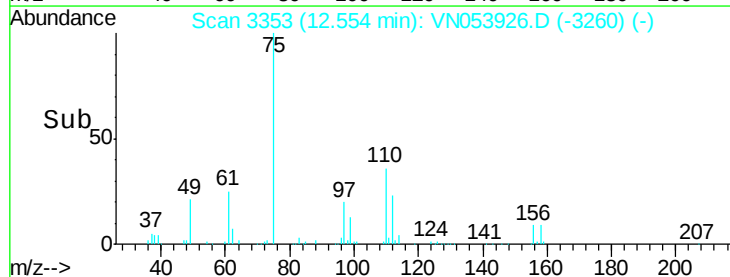
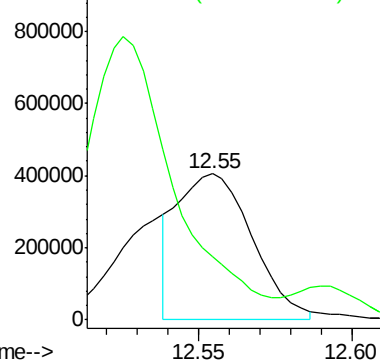
Tgt Ion: 75 Resp: 688726
Ion Ratio Lower Upper

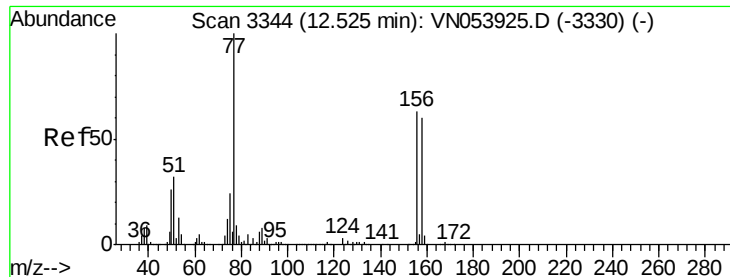
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN053925.D (-3348) (-)
Ion 77.00 (76.70 to 77.70): VN053925.D (-3348) (-)





#77

Bromobenzene

Concen: 95.068 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

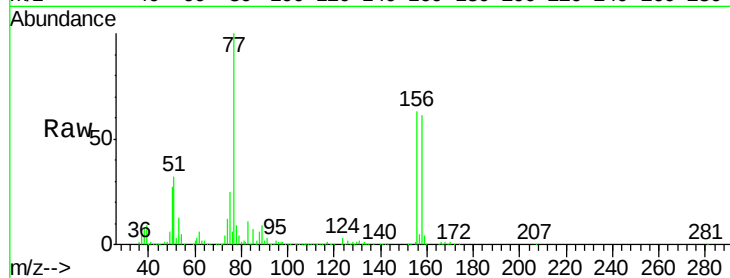
ClientSampled :

VSTDIC100

Tot Ion:	156	Resp:	866272
Ion Ratio	Lower	Upper	
156	100		
77	186.0	84.0	252.2
158	97.8	48.5	145.6

Manual Integrations
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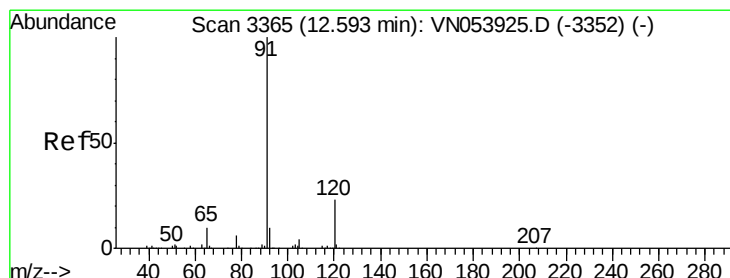
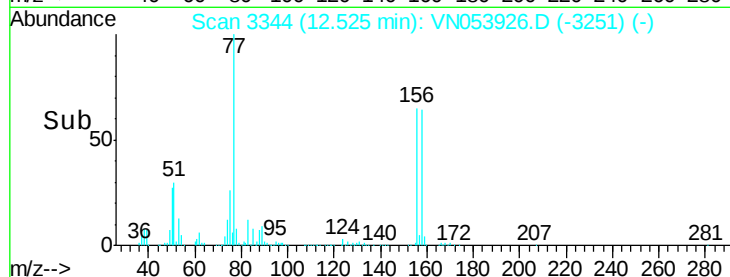
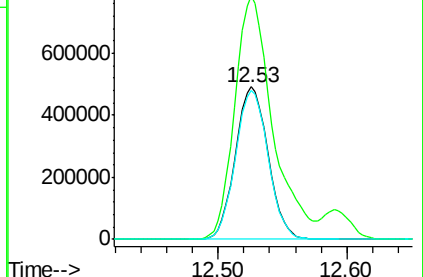
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 97.362 ug/l

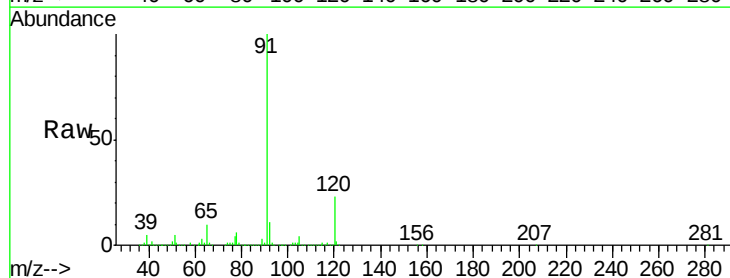
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN053926.D

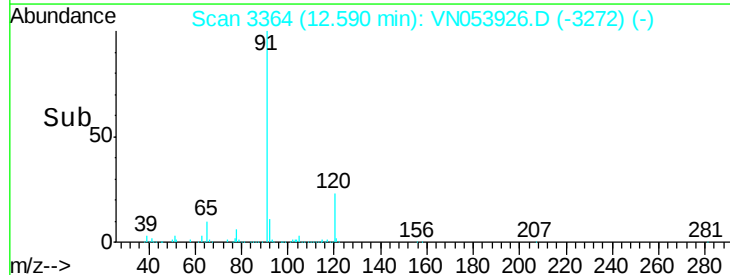
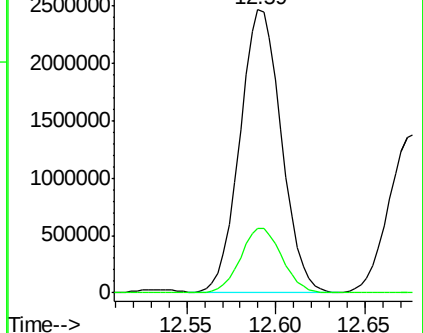
Acq: 25 Feb 2019 13:30

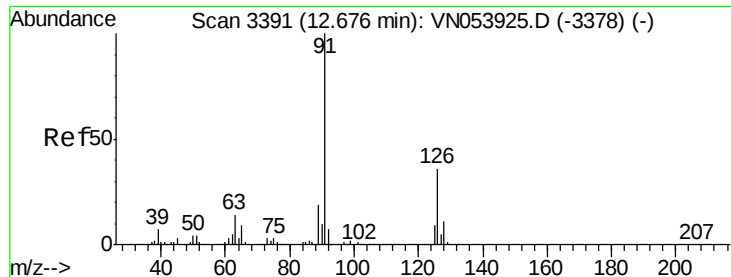
Tgt Ion:	91	Resp:	3973921
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.9	35.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 94.804 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 91 Resp: 2324522

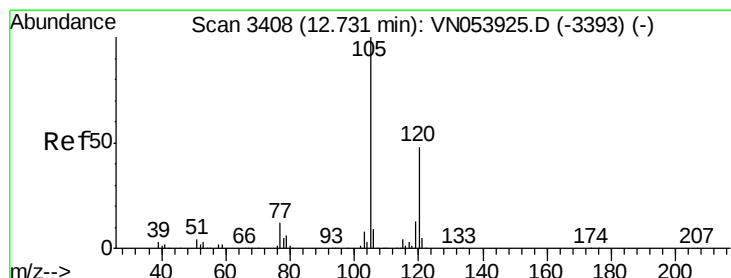
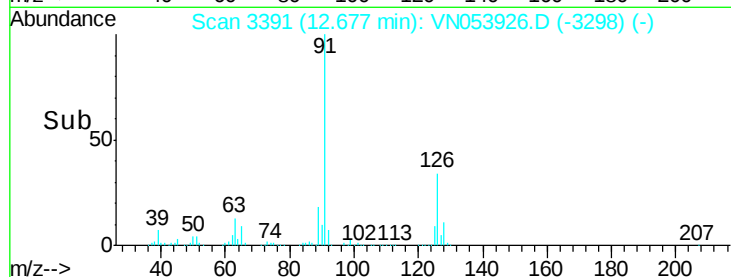
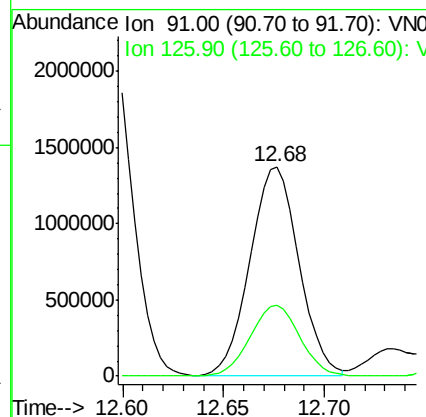
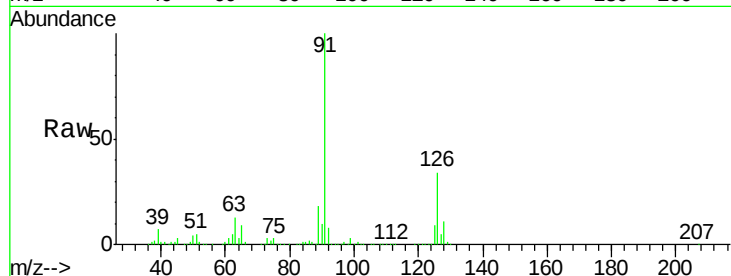
Ion Ratio Lower Upper

91 100

126 34.6 18.1 54.4

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#80

1,3,5-Trimethylbenzene

Concen: 96.744 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053926.D

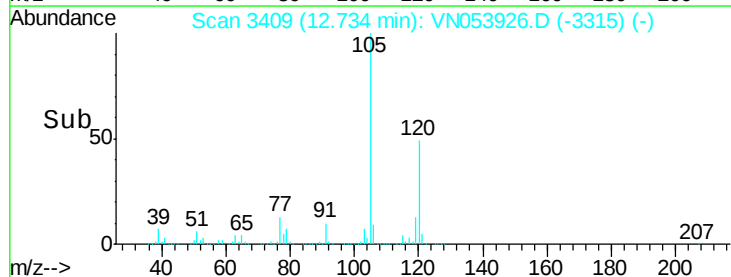
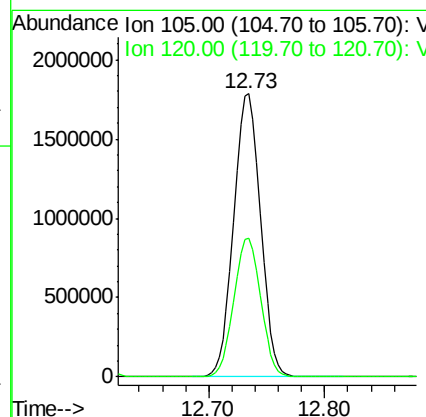
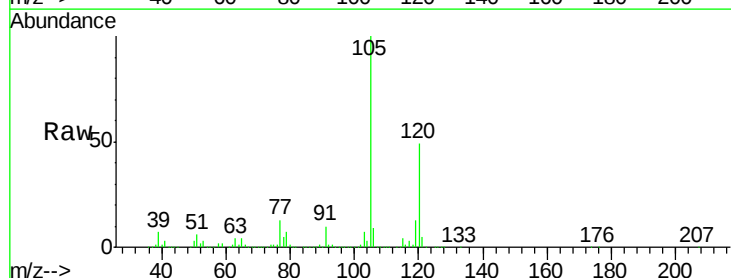
Acq: 25 Feb 2019 13:30

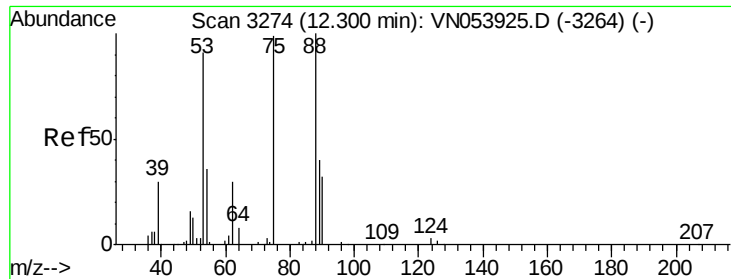
Tgt Ion: 105 Resp: 2842500

Ion Ratio Lower Upper

105 100

120 49.0 25.1 75.2





#81

trans-1,4-Dichloro-2-butene

Concen: 104.606 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 75 Resp: 244785

Ion Ratio Lower Upper

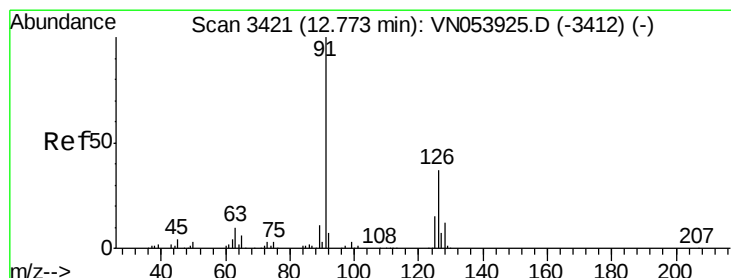
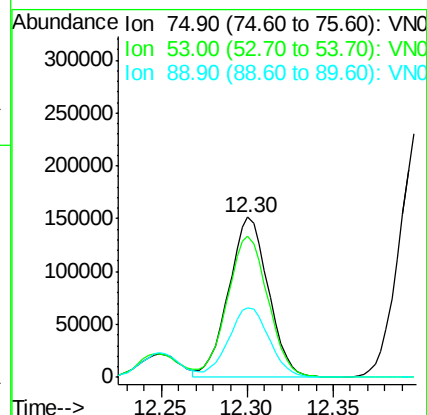
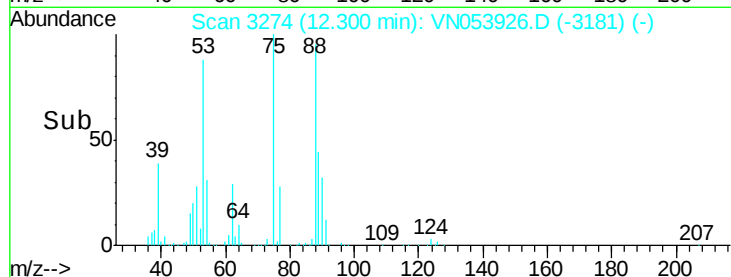
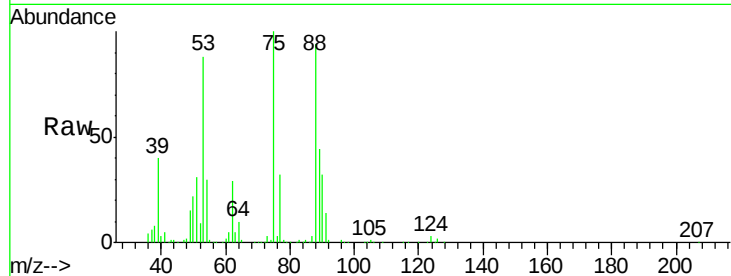
75 100

53 90.4 68.6 102.8

89 44.7 35.3 52.9

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#82

4-Chlorotoluene

Concen: 97.691 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN053926.D

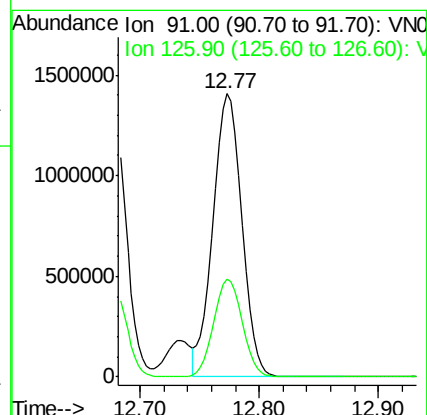
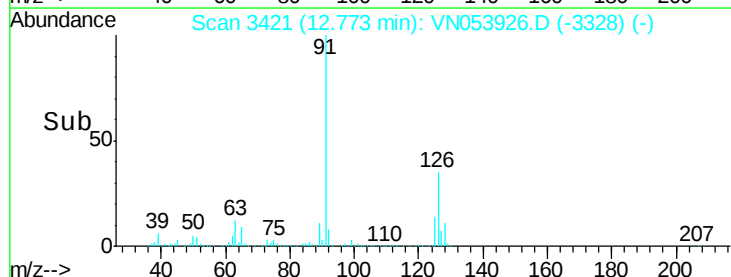
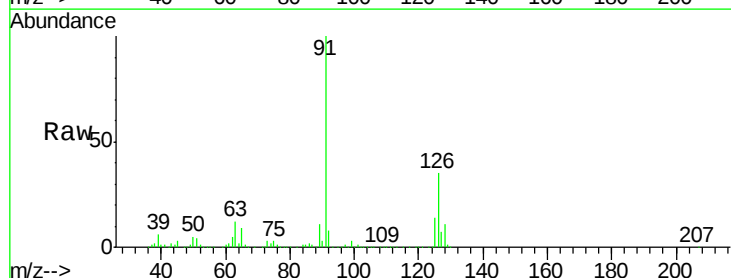
Acq: 25 Feb 2019 13:30

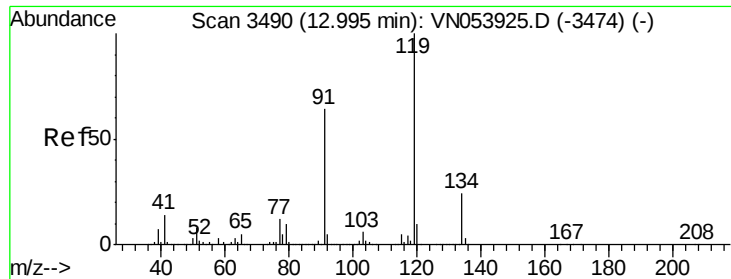
Tgt Ion: 91 Resp: 2367361

Ion Ratio Lower Upper

91 100

126 34.3 18.0 54.0





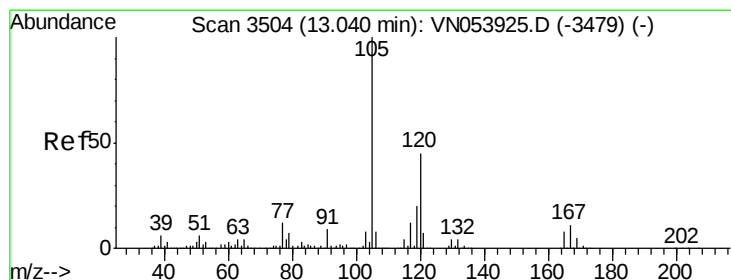
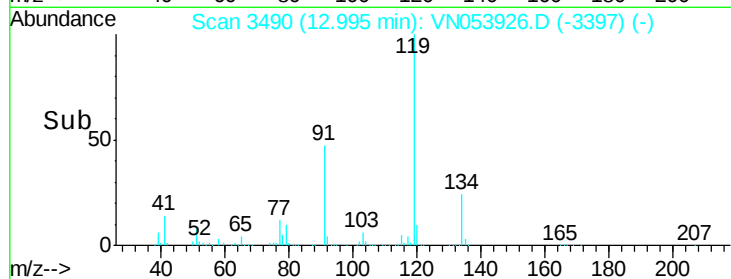
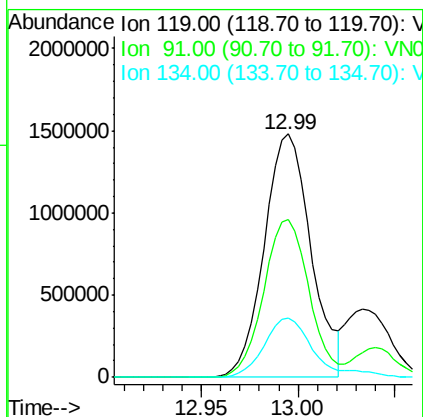
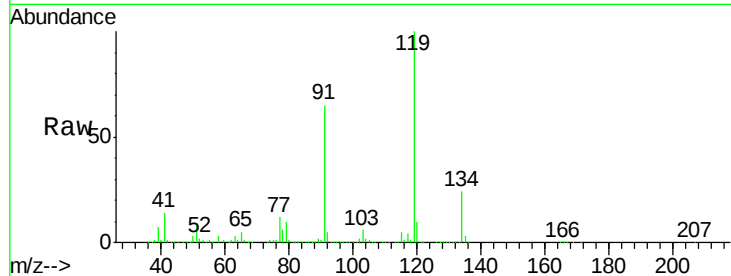
#83
 tert-Butylbenzene
 Concen: 95.976 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:119 Resp: 2494063
 Ion Ratio Lower Upper
 119 100
 91 63.3 30.6 91.8
 134 25.8 13.0 39.0

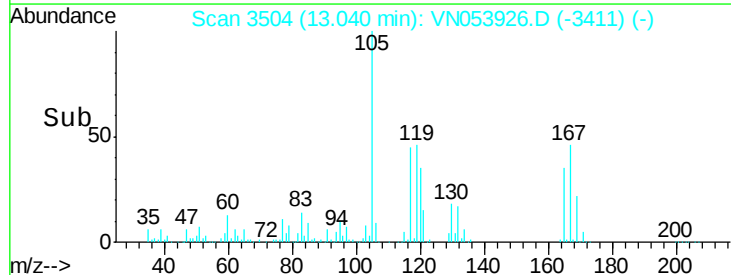
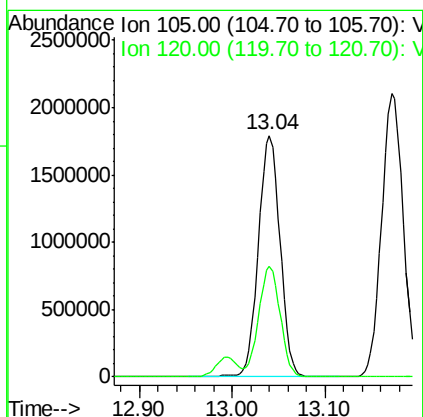
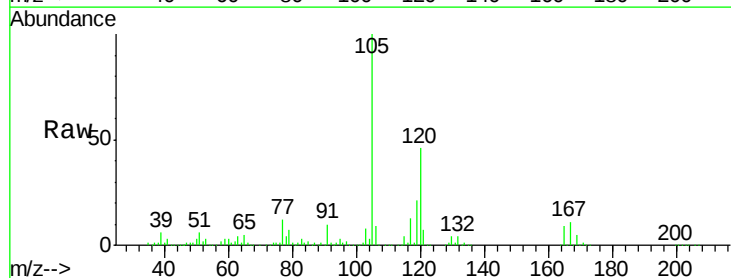
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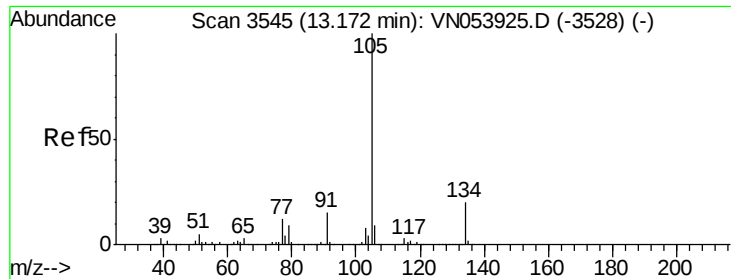
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#84
 1,2,4-Trimethylbenzene
 Concen: 99.367 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Tgt Ion:105 Resp: 2914740
 Ion Ratio Lower Upper
 105 100
 120 45.5 23.2 69.5





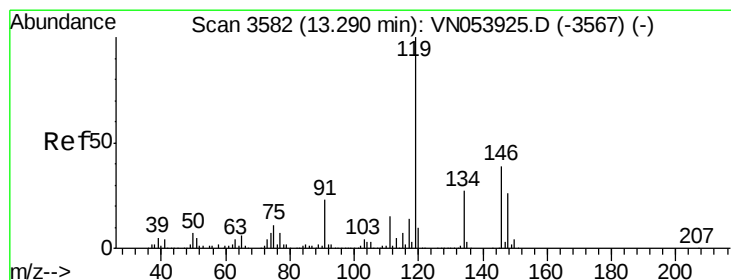
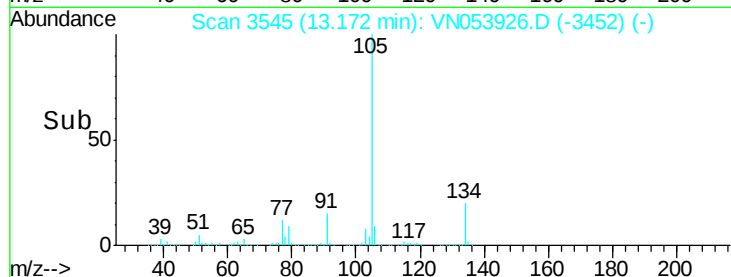
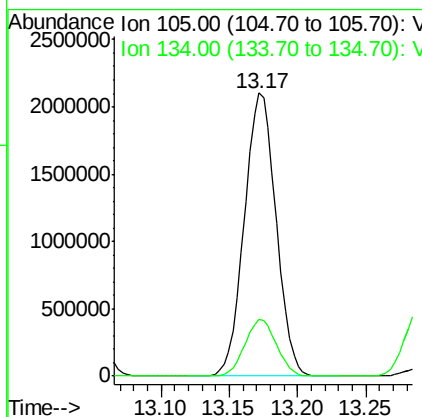
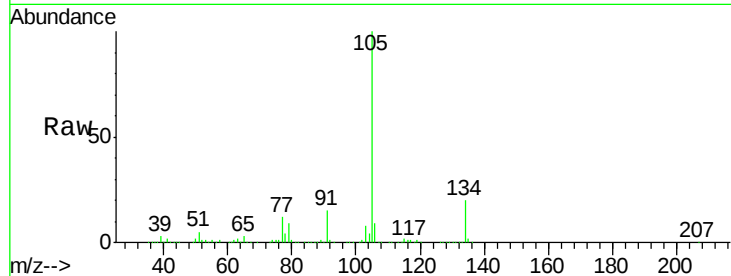
#85
 sec-Butylbenzene
 Concen: 95.503 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:105 Resp: 3389679
 Ion Ratio Lower Upper
 105 100
 134 20.1 10.4 31.1

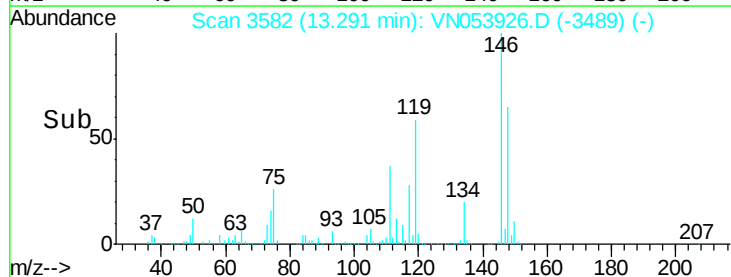
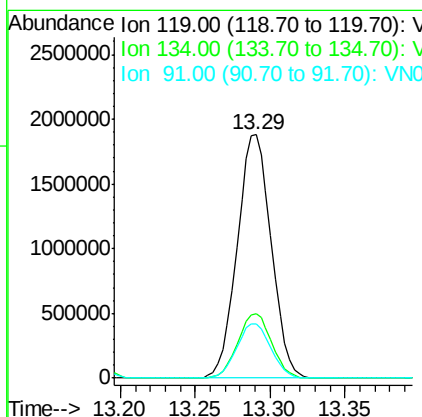
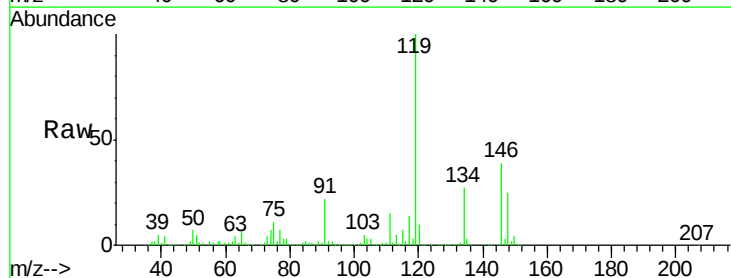
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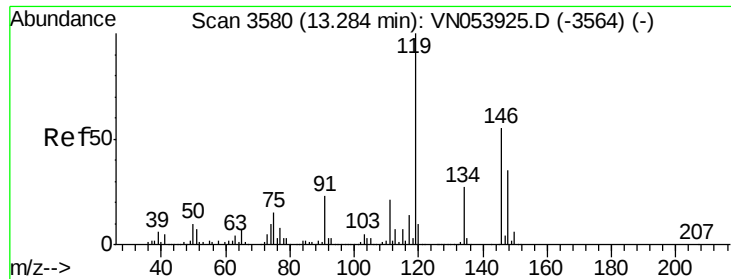
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#86
 p-Isopropyltoluene
 Concen: 98.606 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN053926.D
 Acq: 25 Feb 2019 13:30

Tgt Ion:119 Resp: 2958672
 Ion Ratio Lower Upper
 119 100
 134 26.5 13.5 40.4
 91 22.5 10.9 32.6





#87

1,3-Dichlorobenzene

Concen: 97.883 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:146 Resp: 1542939

Ion Ratio Lower Upper

146 100

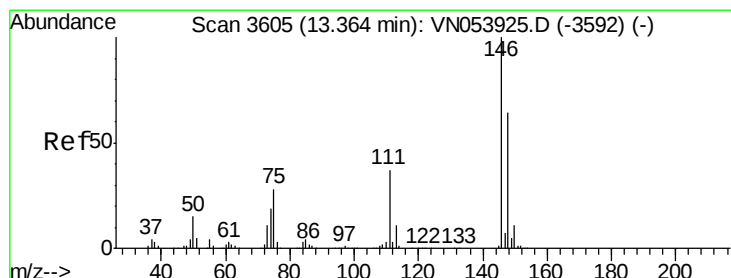
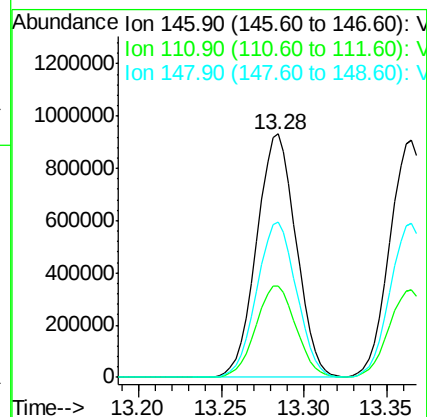
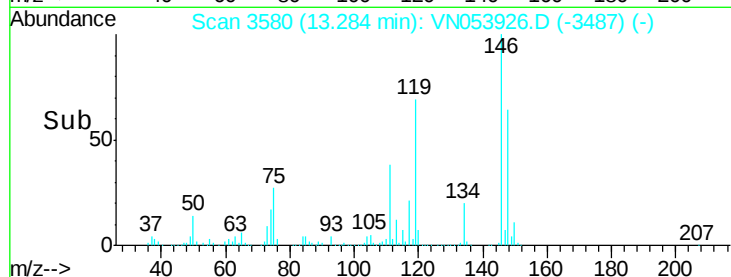
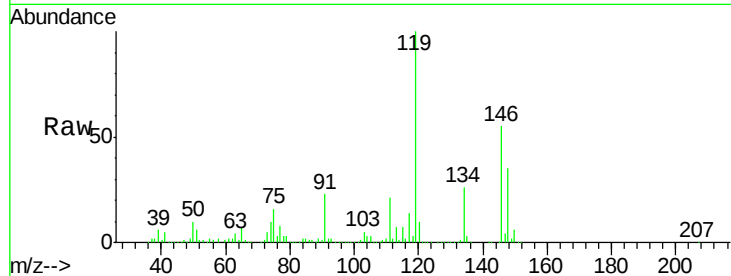
111 38.0 18.7 56.1

148 64.3 32.0 96.2

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 99.071 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

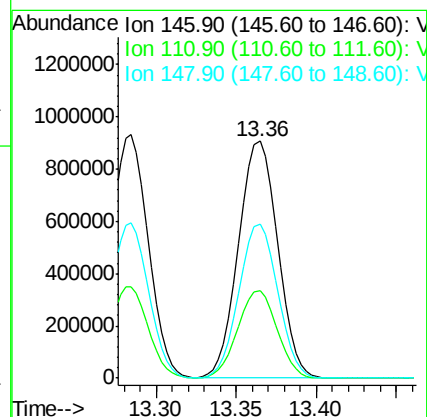
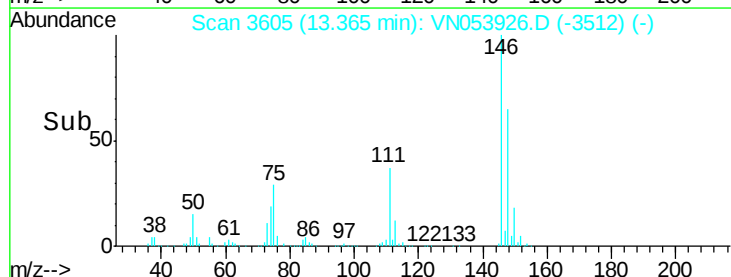
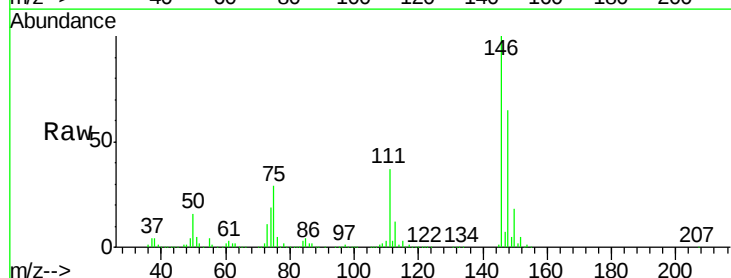
Tgt Ion:146 Resp: 1515092

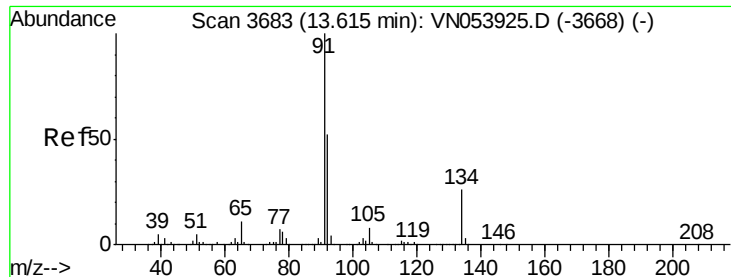
Ion Ratio Lower Upper

146 100

111 37.0 18.0 54.0

148 64.4 32.1 96.5





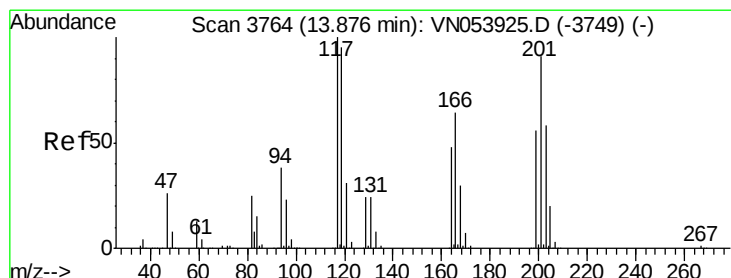
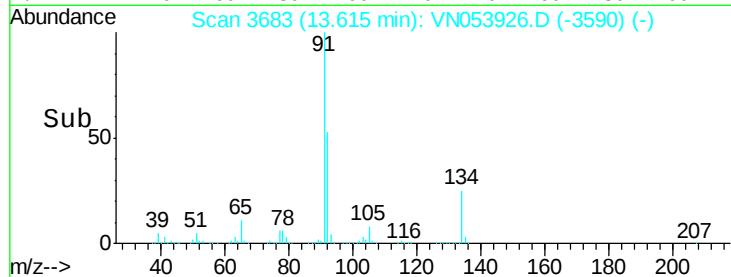
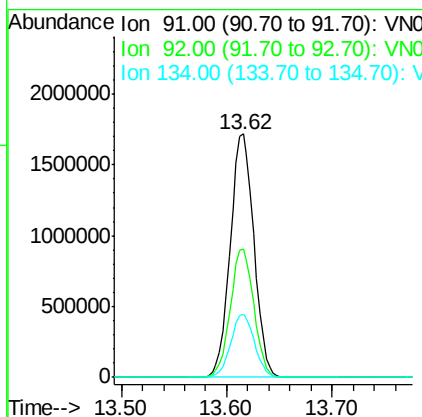
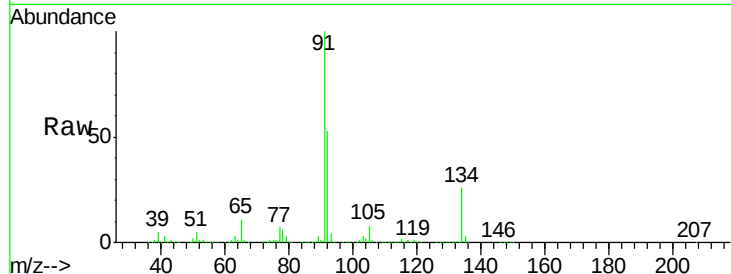
#89
n-Butylbenzene
Concen: 104.787 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 91 Resp: 2649748
Ion Ratio Lower Upper
91 100
92 52.4 26.1 78.2
134 25.9 13.6 40.8

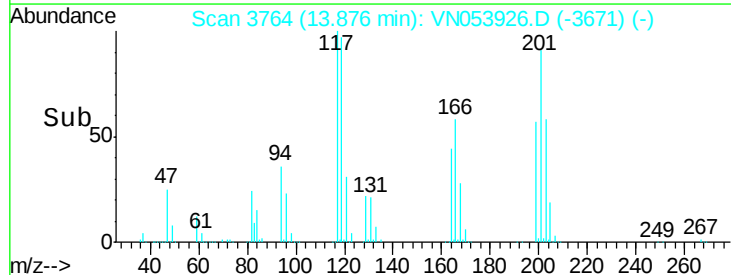
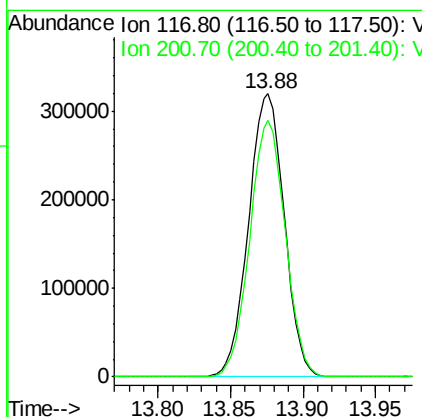
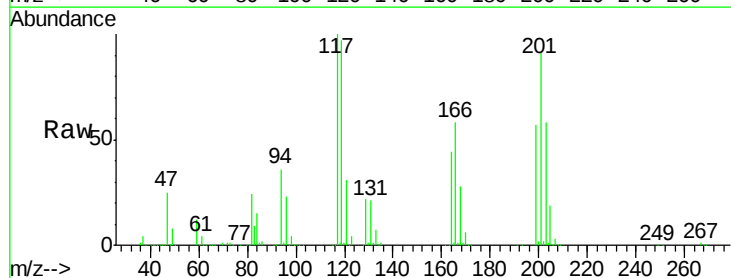
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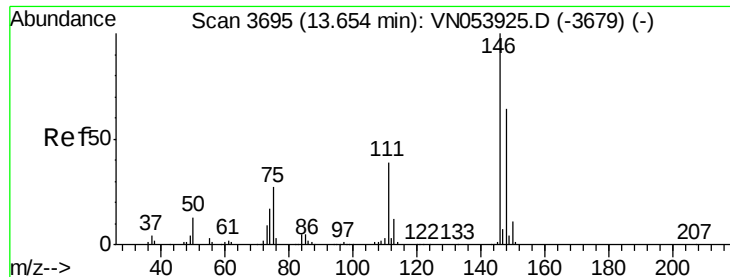
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#90
Hexachloroethane
Concen: 94.291 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053926.D
Acq: 25 Feb 2019 13:30

Tgt Ion: 117 Resp: 548245
Ion Ratio Lower Upper
117 100
201 90.1 48.0 144.2





#91

1,2-Dichlorobenzene

Concen: 97.166 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:146 Resp: 1482651

Ion Ratio Lower Upper

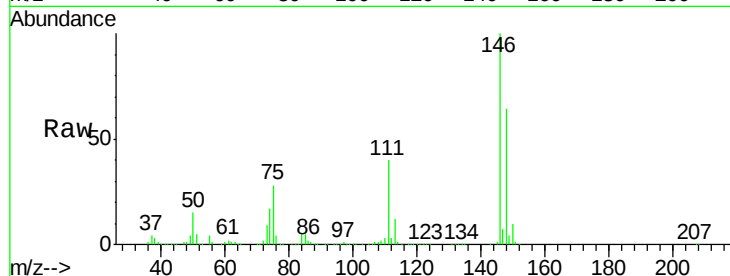
146 100

111 39.8 19.1 57.5

148 64.4 32.1 96.5

Manual Integrations
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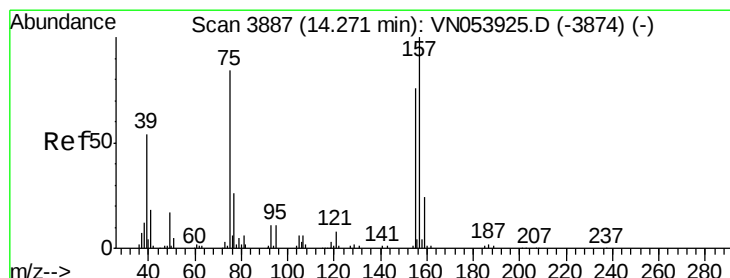
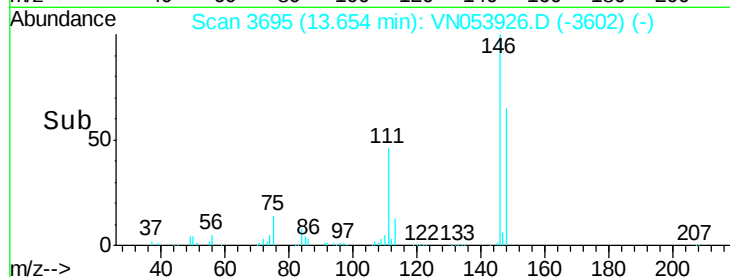
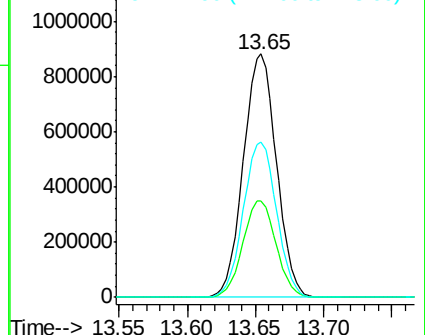
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Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 97.305 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

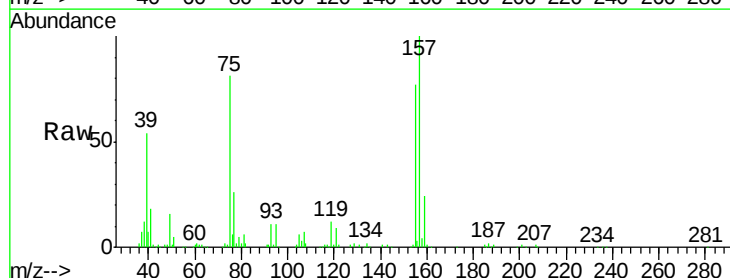
Tgt Ion: 75 Resp: 123411

Ion Ratio Lower Upper

75 100

155 92.0 49.5 148.5

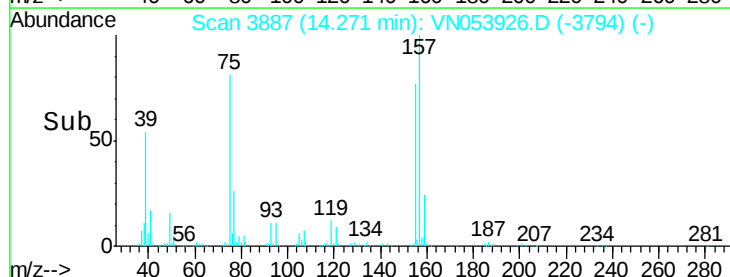
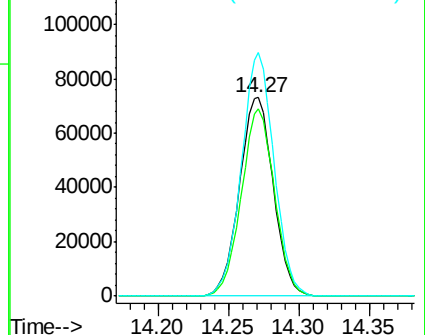
157 117.4 64.8 194.6

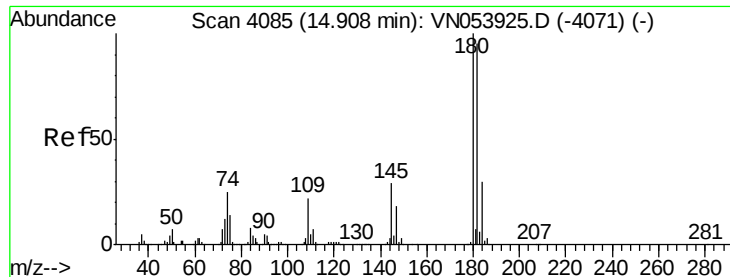


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 119.014 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

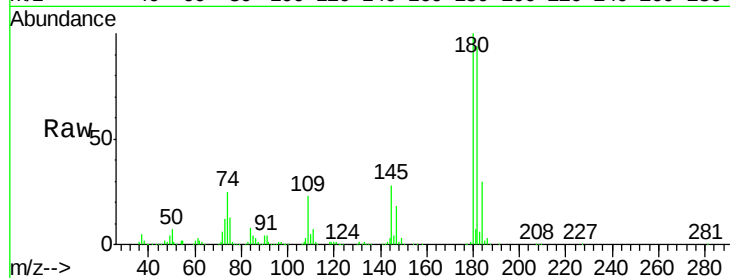
ClientSampleId :

VSTDIC100

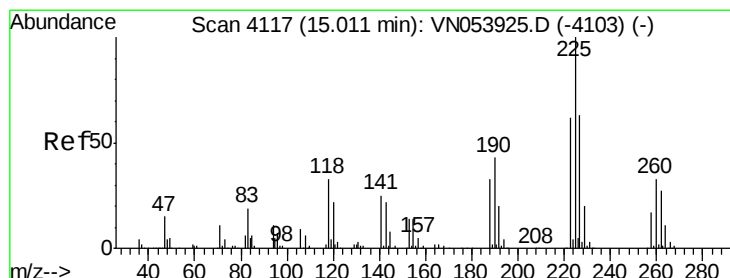
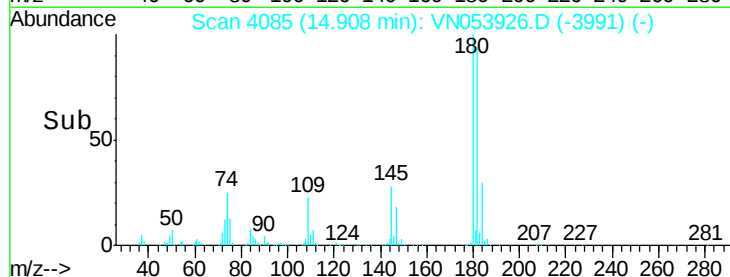
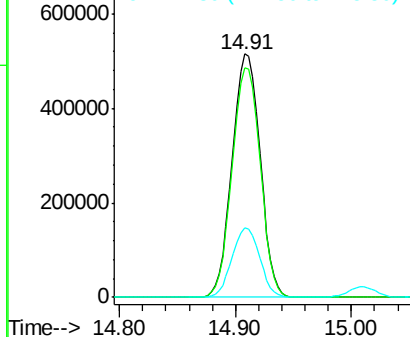
Tot Ion:	180	Resp:	862057
Ion Ratio	Lower	Upper	
180	100		
182	95.0	48.6	145.9
145	28.2	13.8	41.3

Manual Integrations
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Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 91.181 ug/l

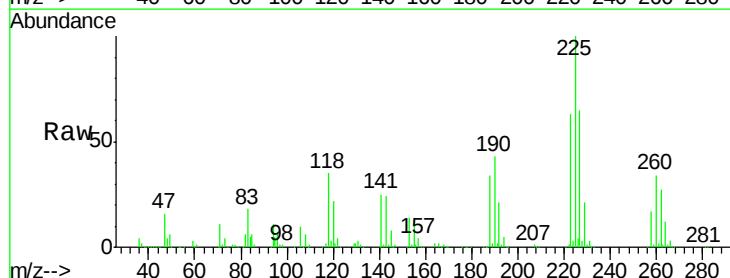
RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

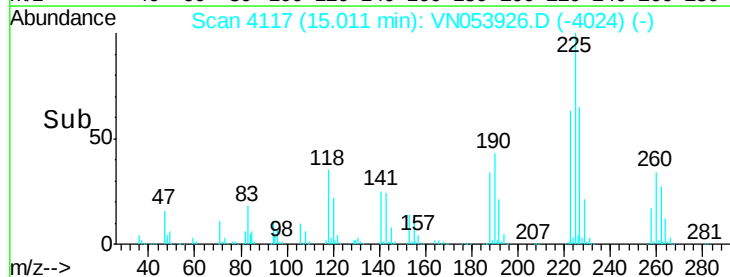
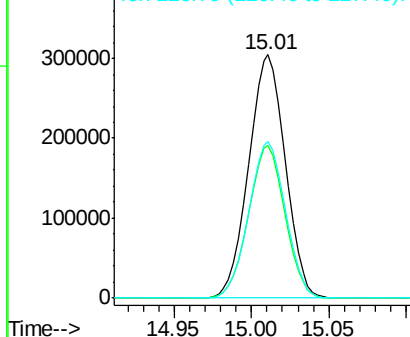
Lab File: VN053926.D

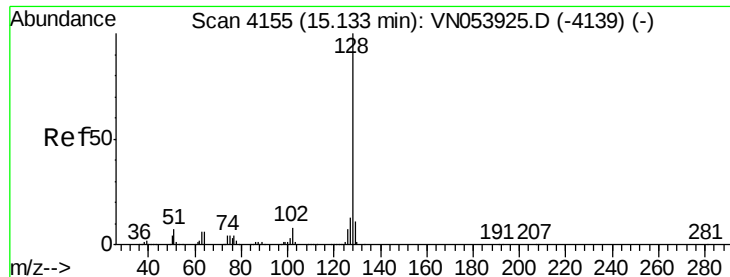
Acq: 25 Feb 2019 13:30

Tgt Ion:	225	Resp:	502581
Ion Ratio	Lower	Upper	
225	100		
223	62.4	30.9	92.5
227	64.4	32.5	97.4



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 123.786 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

Instrument :

MSVOA_N

ClientSampled :

VSTDICC100

Tot Ion:128 Resp: 1856892

Ion Ratio Lower Upper

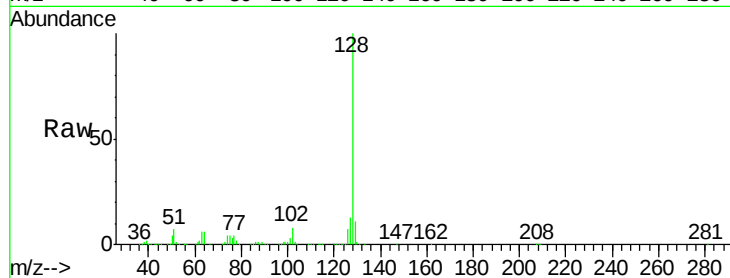
128 100

127 13.0 10.2 15.2

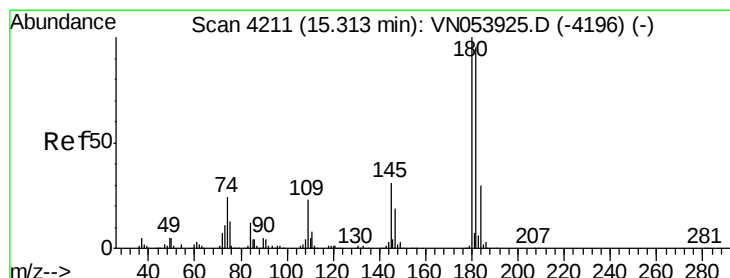
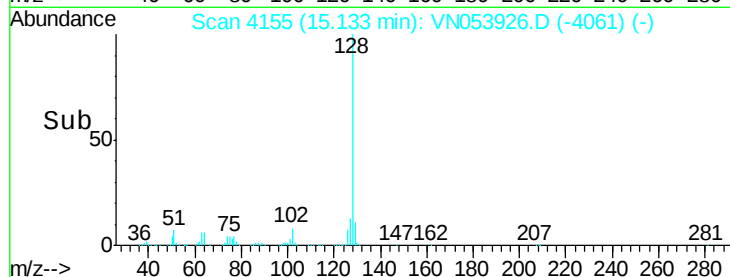
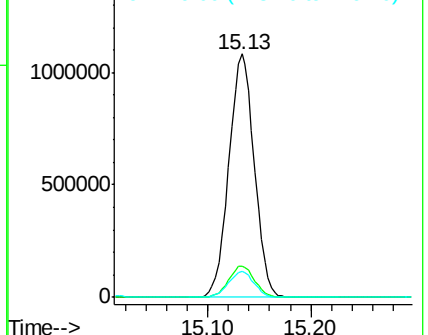
129 10.7 8.6 12.8

Manual Integrations
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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 112.477 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053926.D

Acq: 25 Feb 2019 13:30

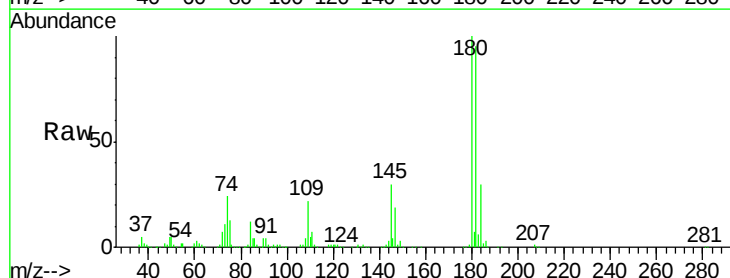
Tgt Ion:180 Resp: 818046

Ion Ratio Lower Upper

180 100

182 95.0 47.3 141.8

145 29.6 14.4 43.0



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

