

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102618\
 Data File : VN052019.D
 Acq On : 26 Oct 2018 10:54
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 10/29/2018 3:46:20 PM

Quant Time: Oct 26 23:43:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 10:12:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1437093	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1955245	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1831468	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	972944	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	504840	39.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.88%	
35) Dibromofluoromethane	7.59	113	555065	44.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.98%	
50) Toluene-d8	10.09	98	2006881	44.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.02%	
62) 4-Bromofluorobenzene	12.40	95	680803	43.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	627272	68.782	ug/l	99
3) Chloromethane	2.06	50	407019	49.568	ug/l	99
4) Vinyl Chloride	2.19	62	499134	45.349	ug/l	99
5) Bromomethane	2.57	94	476925	45.257	ug/l	94
6) Chloroethane	2.71	64	334086	40.885	ug/l	100
7) Trichlorofluoromethane	3.02	101	894223	45.597	ug/l	100
8) Diethyl Ether	3.41	74	257105	44.095	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	554360	47.187	ug/l	98
10) Methyl Iodide	3.96	142	854063	49.136	ug/l	98
11) Tert butyl alcohol	4.78	59	115107	173.777	ug/l #	91
12) 1,1-Dichloroethene	3.74	96	482389	45.850	ug/l	99
13) Acrolein	3.61	56	53901	157.569	ug/l	96
14) Allyl chloride	4.33	41	458441	41.179	ug/l	94
15) Acrylonitrile	4.99	53	627125	224.280	ug/l	99
16) Acetone	3.82	43	434662	206.125	ug/l	100
17) Carbon Disulfide	4.06	76	1209774	48.373	ug/l	99
18) Methyl Acetate	4.33	43	239282	36.750	ug/l	97
19) Methyl tert-butyl Ether	5.04	73	1234653	43.709	ug/l	99
20) Methylene Chloride	4.55	84	515089	41.639	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	544692	45.713	ug/l	98
22) Diisopropyl ether	5.95	45	1131490	44.422	ug/l	99
23) Vinyl Acetate	5.90	43	4064981	234.602	ug/l	99
24) 1,1-Dichloroethane	5.85	63	807852	43.442	ug/l	100
25) 2-Butanone	6.83	43	660359	219.665	ug/l	99
26) 2,2-Dichloropropane	6.83	77	780888	45.897	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	628922	45.183	ug/l	98
28) Bromochloromethane	7.20	49	316745	42.262	ug/l	92
29) Tetrahydrofuran	7.21	42	421738	207.060	ug/l	99
30) Chloroform	7.37	83	984083	43.339	ug/l	99
31) Cyclohexane	7.65	56	701708	46.808	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	920478	44.331	ug/l	99
36) 1,1-Dichloropropene	7.80	75	712511	47.506	ug/l	98
37) Ethyl Acetate	6.93	43	313914	46.718	ug/l	100
38) Carbon Tetrachloride	7.78	117	848471	49.277	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	916211	50.015	ug/l	98
40) Benzene	8.04	78	2112758	47.443	ug/l	99
41) Methacrylonitrile	7.17	41	152826	45.345	ug/l	96
42) 1,2-Dichloroethane	8.12	62	644721	45.154	ug/l	99
43) Isopropyl Acetate	8.16	43	584692	46.549	ug/l	98
44) Trichloroethene	8.84	130	715255	50.039	ug/l	92
45) 1,2-Dichloropropane	9.12	63	482471	47.894	ug/l	99
46) Dibromomethane	9.21	93	374564	46.125	ug/l	94
47) Bromodichloromethane	9.40	83	729399	47.560	ug/l	98
48) Methyl methacrylate	9.20	41	282802	46.580	ug/l	98
49) 1,4-Dioxane	9.20	88	82306	739.326	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	1568104	226.957	ug/l	99
52) Toluene	10.16	92	1464334	48.491	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	712118	45.580	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	800243	49.922	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	517896	46.417	ug/l	99
56) Ethyl methacrylate	10.43	69	577288	48.133	ug/l	98
57) 1,3-Dichloropropane	10.71	76	790382	46.662	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	1666738	265.595	ug/l	100
59) 2-Hexanone	10.75	43	1088719	234.522	ug/l	99
60) Dibromochloromethane	10.90	129	642634	45.342	ug/l	98
61) 1,2-Dibromoethane	11.00	107	554891	47.168	ug/l	98
64) Tetrachloroethene	10.63	164	715242	50.881	ug/l	97
65) Chlorobenzene	11.43	112	1770298	47.874	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	666265	50.128	ug/l	99
67) Ethyl Benzene	11.51	91	2853020	47.999	ug/l	99
68) m/p-Xylenes	11.62	106	2366497	99.648	ug/l	99
69) o-Xylene	11.95	106	1141652	49.430	ug/l	97
70) Styrene	11.96	104	1851979	50.168	ug/l	99
71) Bromoform	12.13	173	428309	43.945	ug/l #	100
73) Isopropylbenzene	12.25	105	3028814	49.086	ug/l	98
74) N-amyl acetate	12.07	43	541244	44.564	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	555567	43.575	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	469683m	46.735	ug/l	
77) Bromobenzene	12.53	156	873202	51.277	ug/l	94
78) n-propylbenzene	12.59	91	3336006	50.118	ug/l	100
79) 2-Chlorotoluene	12.67	91	1878859	48.471	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	2497178	50.443	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	145605	46.822	ug/l	97
82) 4-Chlorotoluene	12.77	91	1957060	48.764	ug/l	98
83) tert-Butylbenzene	12.99	119	2294580	49.006	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2519512	49.340	ug/l	99
85) sec-Butylbenzene	13.17	105	3008001	49.188	ug/l	100
86) p-Isopropyltoluene	13.29	119	2773401	50.374	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	1541902	49.093	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	1505228	48.611	ug/l	99
89) n-Butylbenzene	13.61	91	2105109	48.018	ug/l	99
90) Hexachloroethane	13.87	117	415263	50.628	ug/l	93
91) 1,2-Dichlorobenzene	13.65	146	1412817	46.499	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	68085	34.780	ug/l	95

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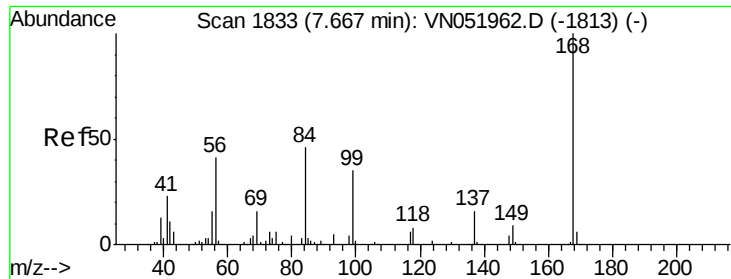
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	597013	33.263	ug/l	99
94) Hexachlorobutadiene	15.01	225	369530	40.069	ug/l	99
95) Naphthalene	15.13	128	1097021	28.144	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	476747	27.790	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 1437093

Ion Ratio Lower Upper

168 100

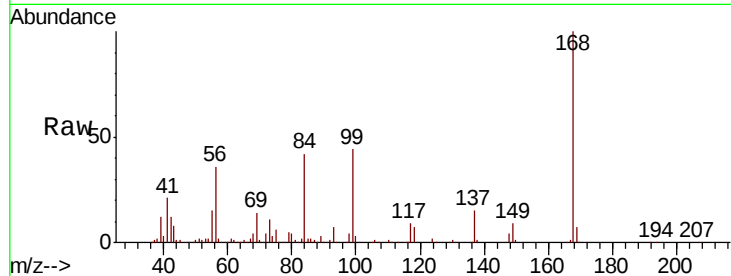
99 44.4 37.8 56.6

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNC

600000

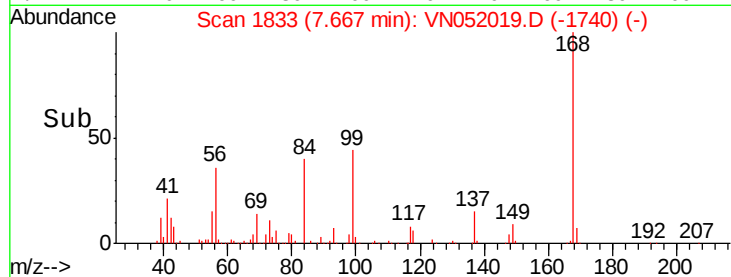
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200000

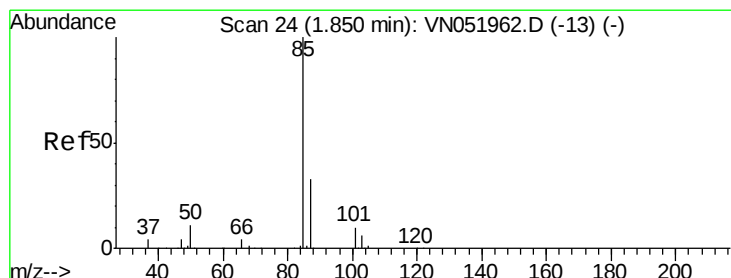
0

7.50 7.60 7.70 7.80

7.67



Time-->



#2

Dichlorodifluoromethane

Concen: 68.782 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052019.D

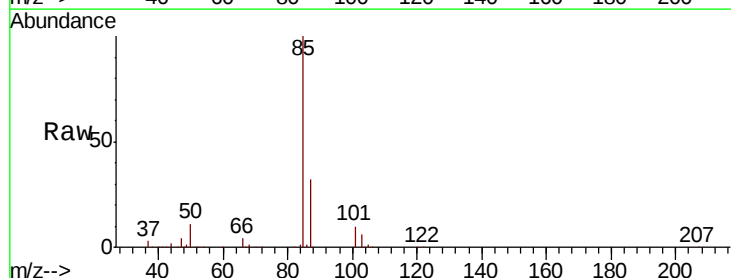
Acq: 26 Oct 2018 10:54

Tgt Ion: 85 Resp: 627272

Ion Ratio Lower Upper

85 100

87 32.5 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VNC

Ion 86.90 (86.60 to 87.60): VNC

500000

400000

300000

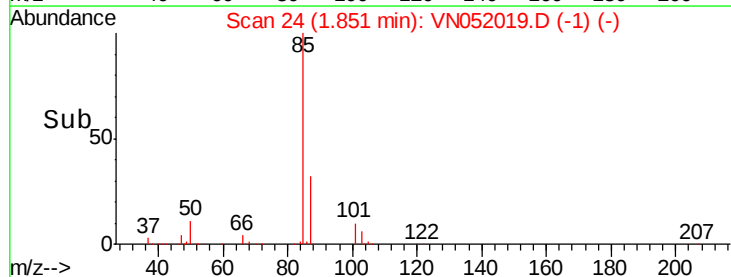
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100000

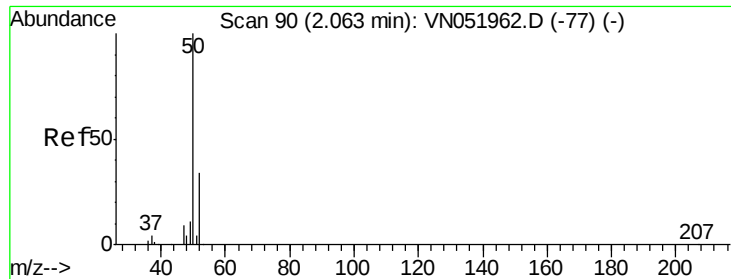
0

1.75 1.80 1.85 1.90 1.95

1.85



Time-->



#3

Chloromethane

Concen: 49.568 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 407019

Ion Ratio Lower Upper

50 100

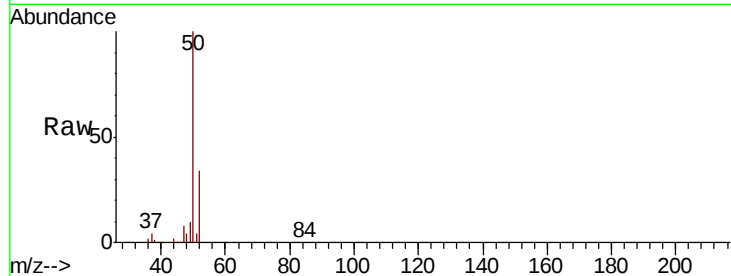
52 33.6 27.5 41.3

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Abundance Ion 49.90 (49.60 to 50.60): VN051962.D (-77) (-)

Ion 51.90 (51.60 to 52.60): VN051962.D (-77) (-)

2.06

250000

200000

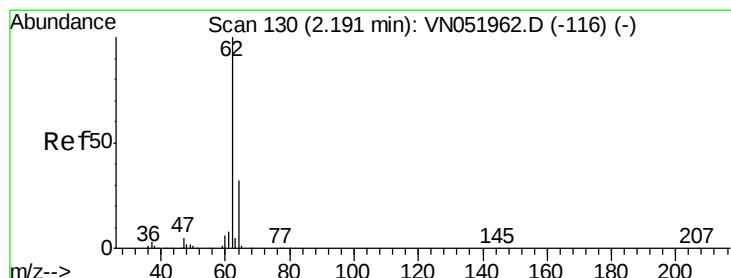
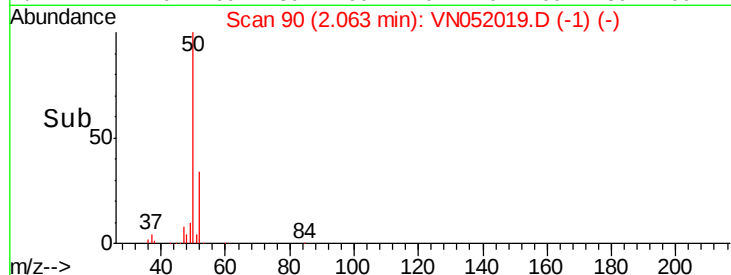
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 45.349 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN052019.D

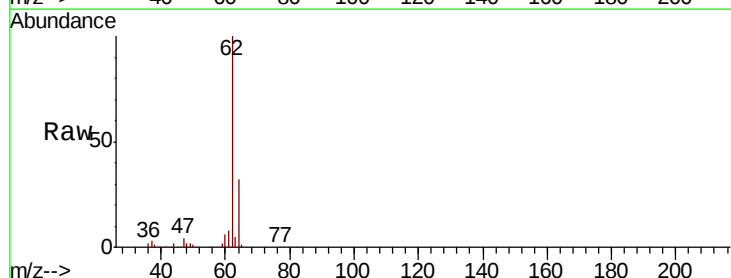
Acq: 26 Oct 2018 10:54

Tgt Ion: 62 Resp: 499134

Ion Ratio Lower Upper

62 100

64 32.2 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VN051962.D (-116) (-)

Ion 63.90 (63.60 to 64.60): VN051962.D (-116) (-)

2.19

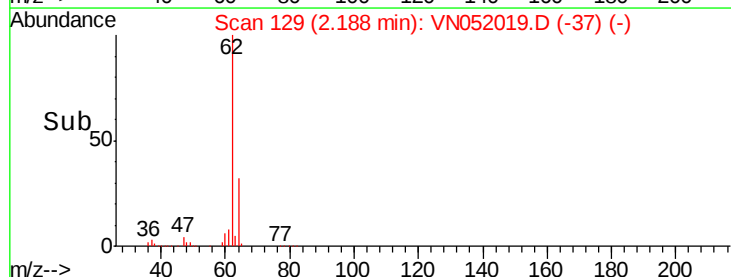
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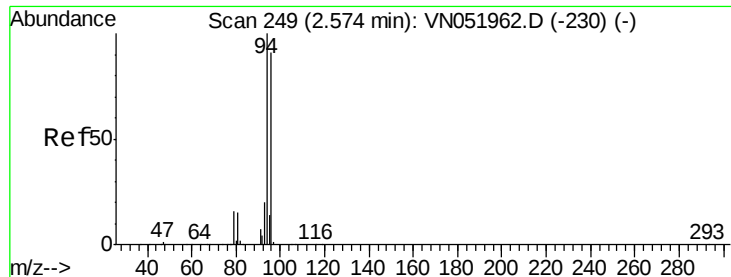
200000

100000

0

Time-->





#5

Bromomethane

Concen: 45.257 ug/l

RT: 2.57 min Scan# 248

Delta R.T. -0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 476925

Ion Ratio Lower Upper

94 100

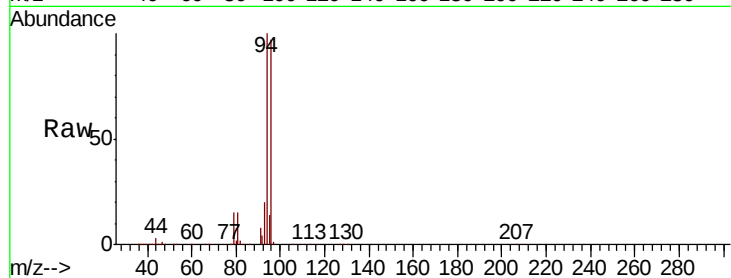
96 97.2 73.0 109.6

Manual Integrations

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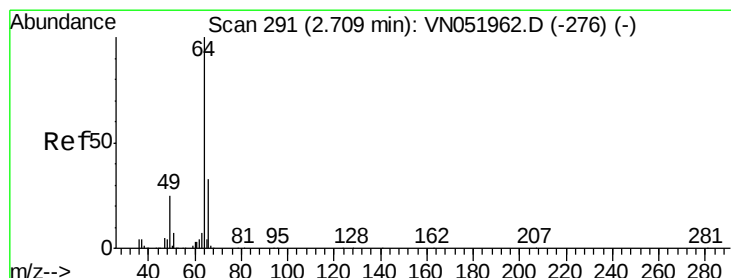
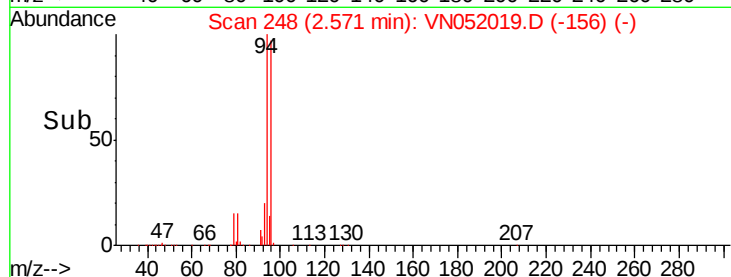
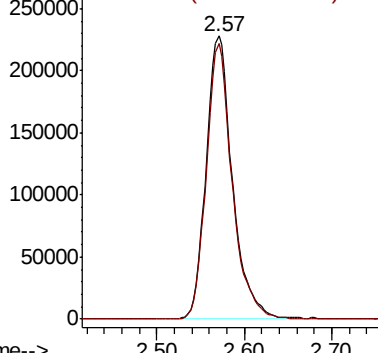
MMDadoda

10/29/2018 3:46:20 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 40.885 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN052019.D

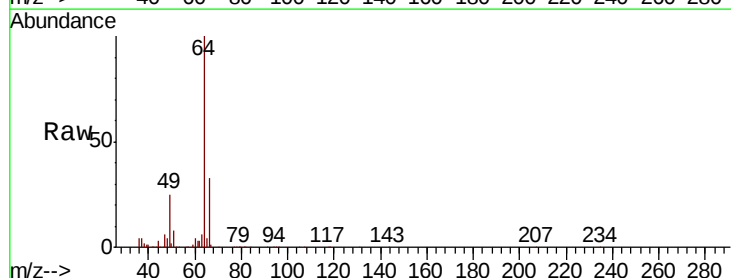
Acq: 26 Oct 2018 10:54

Tgt Ion: 64 Resp: 334086

Ion Ratio Lower Upper

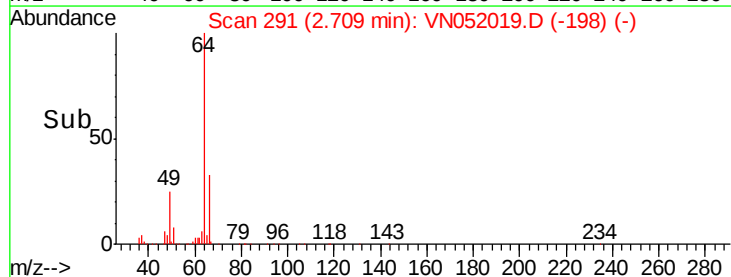
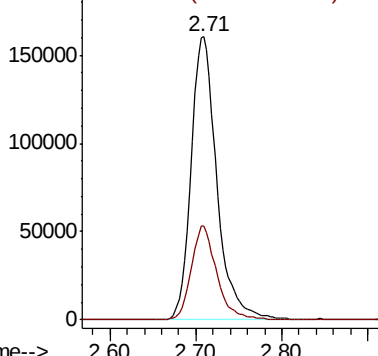
64 100

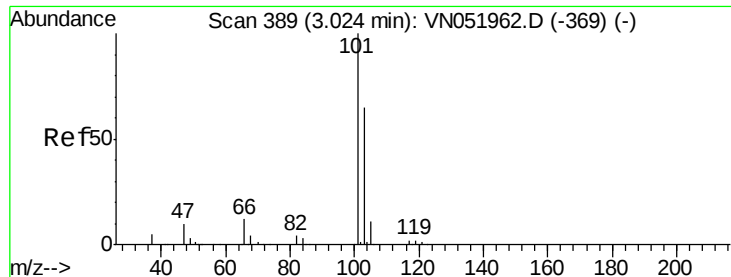
66 32.9 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

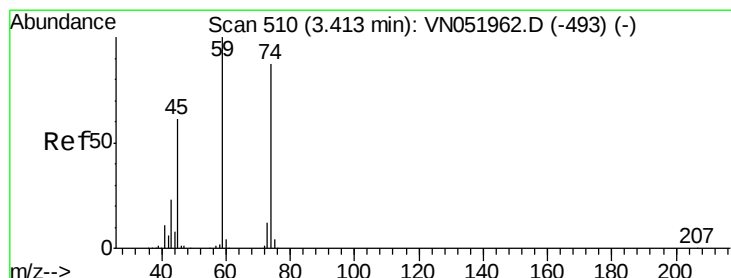
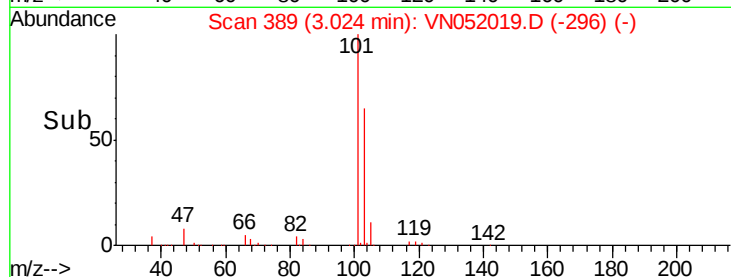
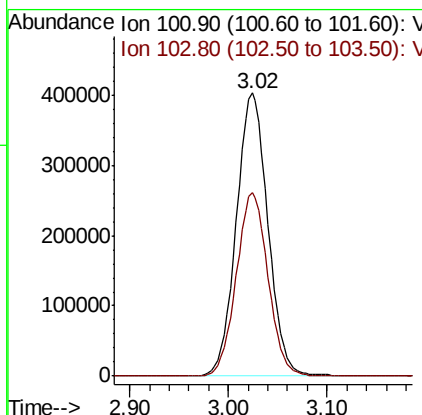
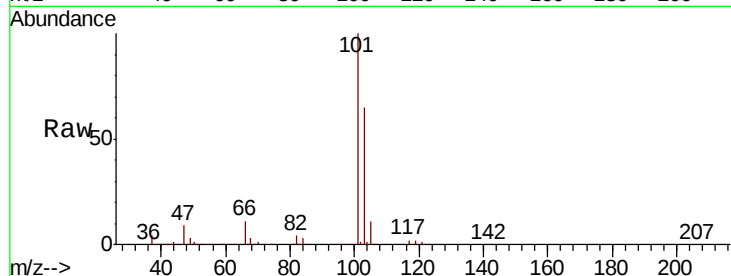
Trichlorofluoromethane
 Concen: 45.597 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		894223		
103	64.7	52.0	78.0		

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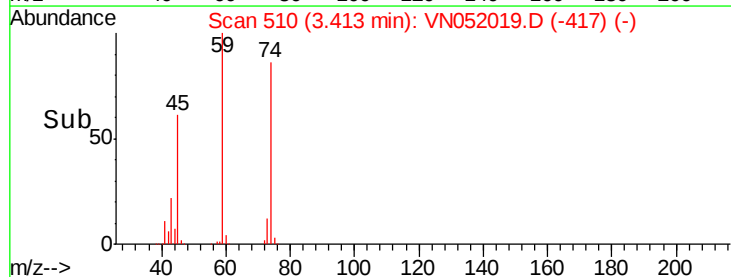
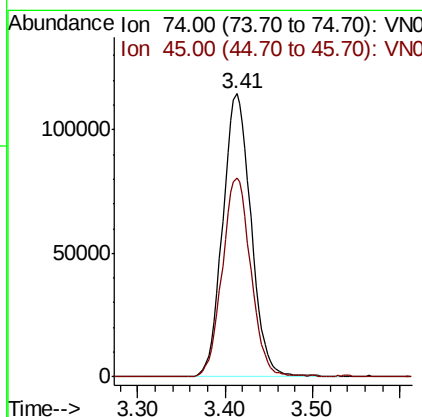
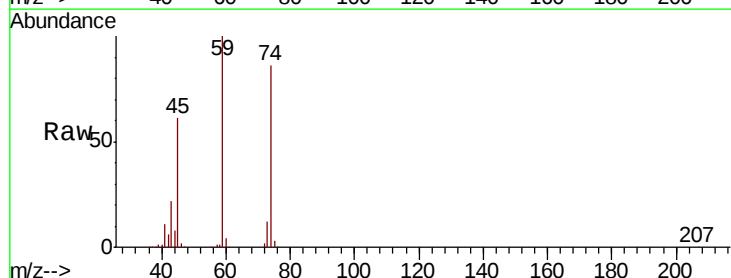
MMDadoda
 10/29/2018 3:46:20 PM

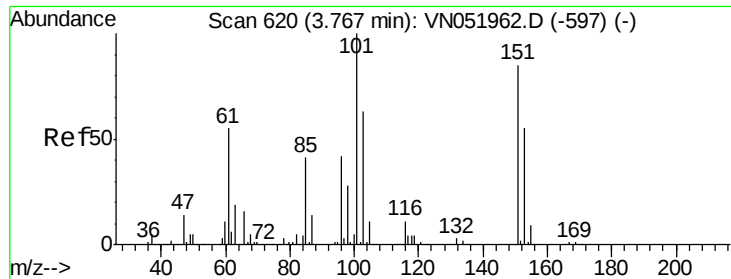


#8

Diethyl Ether
 Concen: 44.095 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		257105		
45	70.1	35.5	106.5		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.187 ug/l

RT: 3.76 min Scan# 619

Delta R.T. -0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Instrument :

MSVOA_N

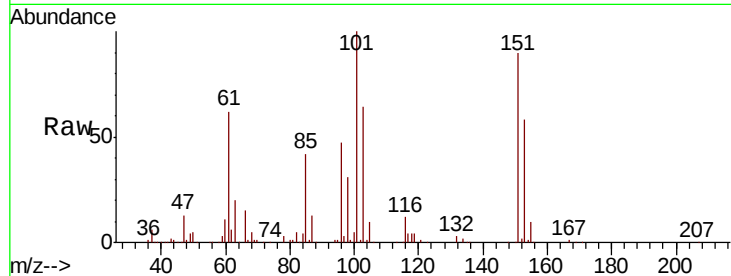
ClientSampleId :

VSTDCCC050

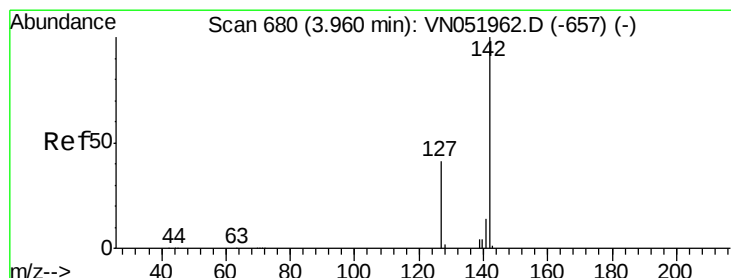
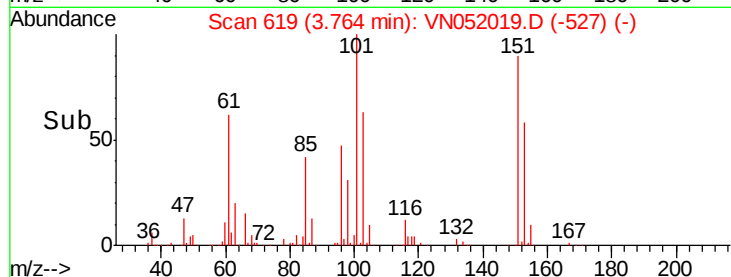
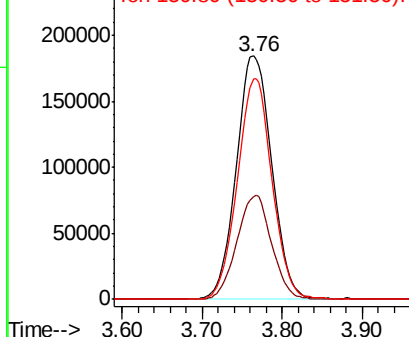
Tot Ion:	101	Resp:	554360
Ion Ratio	Lower	Upper	
101	100		
85	41.6	34.2	51.4
151	88.2	69.1	103.7

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



#10

Methyl Iodide

Concen: 49.136 ug/l

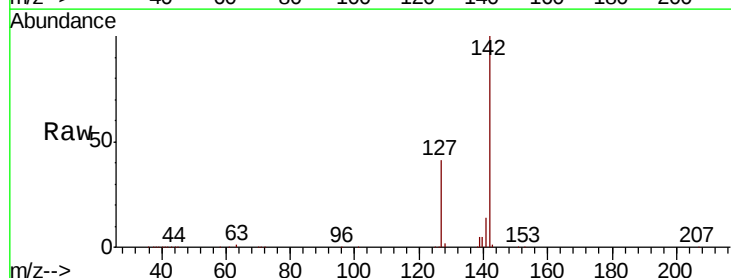
RT: 3.96 min Scan# 679

Delta R.T. -0.00 min

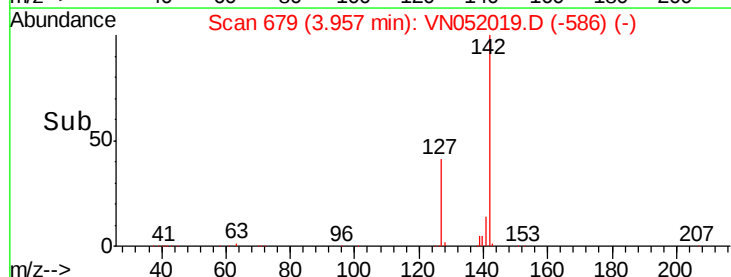
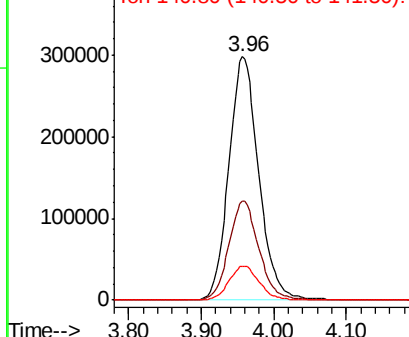
Lab File: VN052019.D

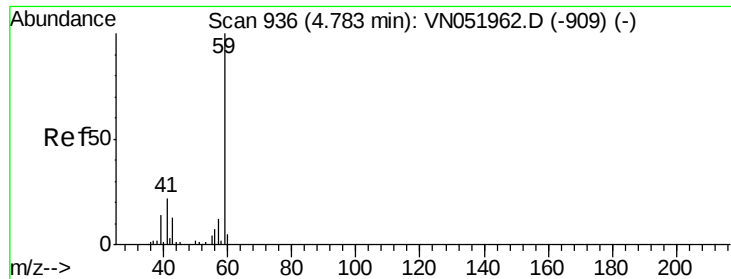
Acq: 26 Oct 2018 10:54

Tgt Ion:	142	Resp:	854063
Ion Ratio	Lower	Upper	
142	100		
127	41.1	34.3	51.5
141	14.2	11.4	17.0



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





#11

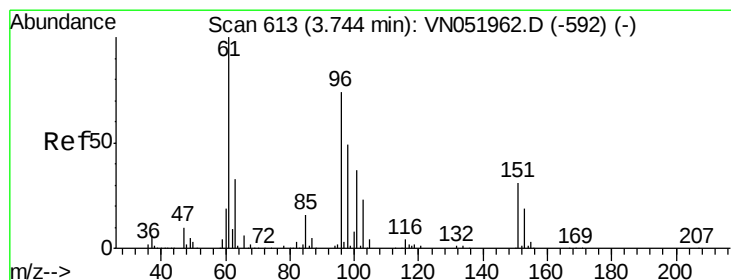
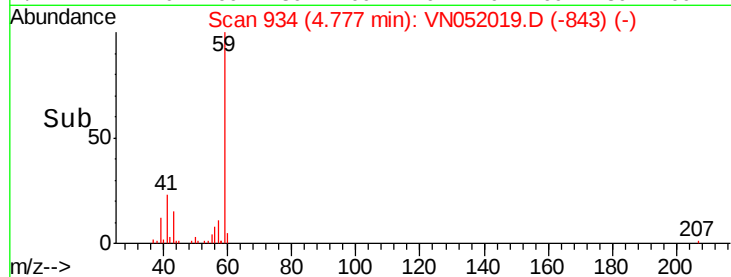
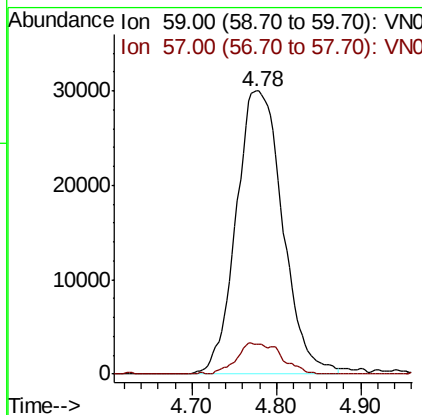
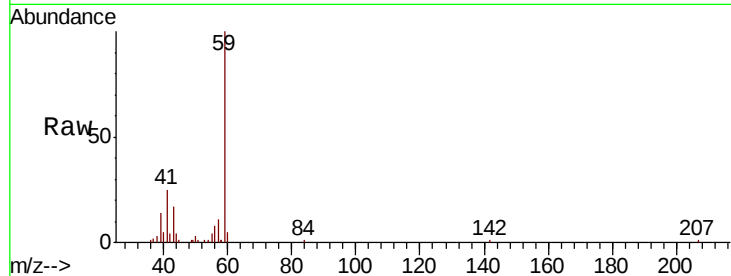
Tert butyl alcohol
Concen: 173.777 ug/l
RT: 4.78 min Scan# 934
Delta R.T. -0.01 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	59	57	Ratio	100	6.9	Resp	115107	Lower	8.2	Upper	12.4#
Ion	59	57	Ratio	100	6.9	Resp	115107	Lower	8.2	Upper	12.4#

Manual Integrations
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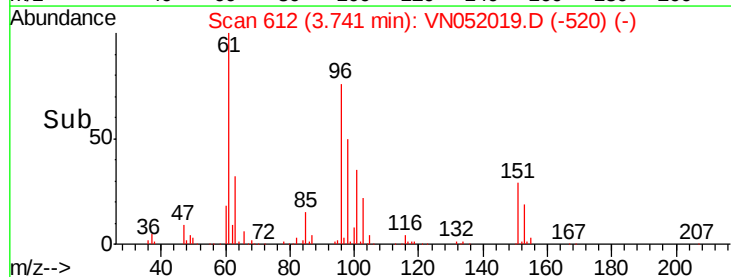
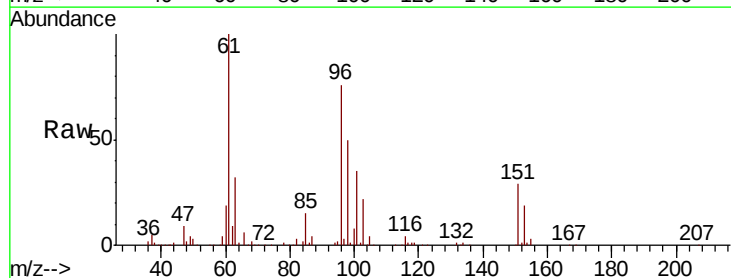
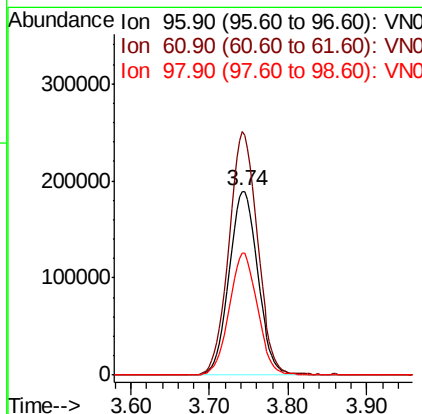
MMDadoda
10/29/2018 3:46:20 PM

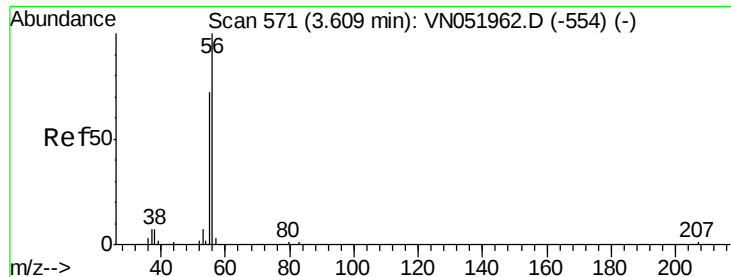


#12

1,1-Dichloroethene
Concen: 45.850 ug/l
RT: 3.74 min Scan# 612
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion	96	61	98	Ratio	100	132.4	66.2	Resp	482389	Lower	107.8	52.7	Upper	161.8	79.1
Ion	96	61	98	Ratio	100	132.4	66.2	Resp	482389	Lower	107.8	52.7	Upper	161.8	79.1





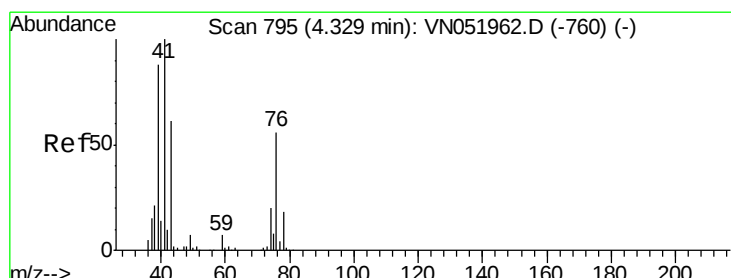
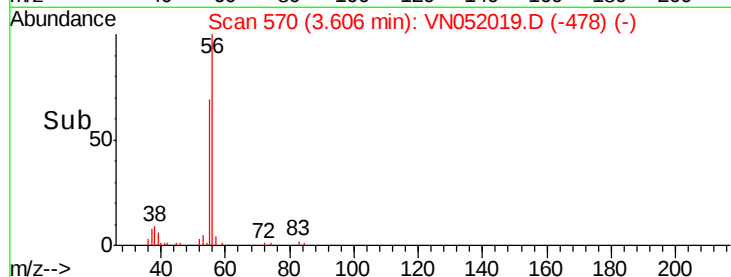
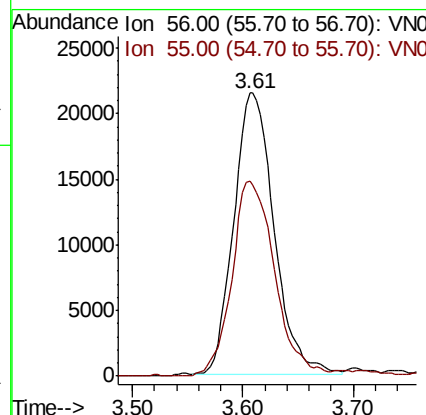
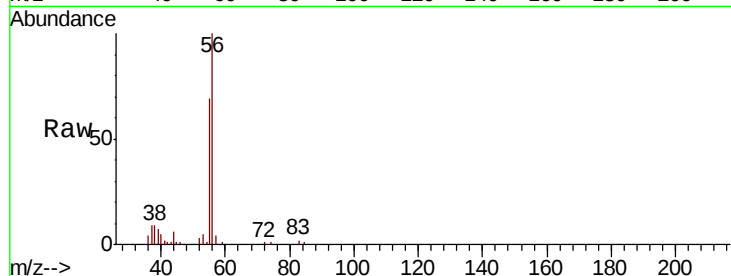
#13
Acrolein
Concen: 157.569 ug/l
RT: 3.61 min Scan# 570
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	56	Resp	53901
Ion Ratio	100	Lower	Upper
56	100		
55	74.0	56.6	84.8

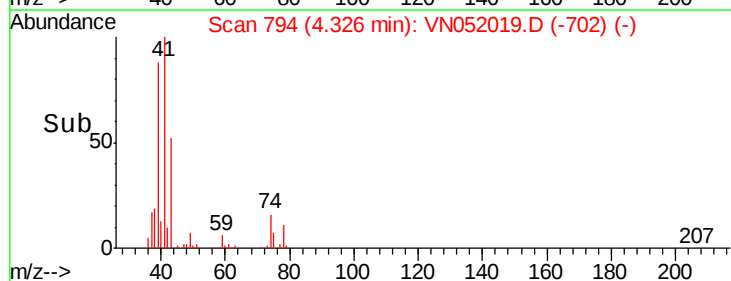
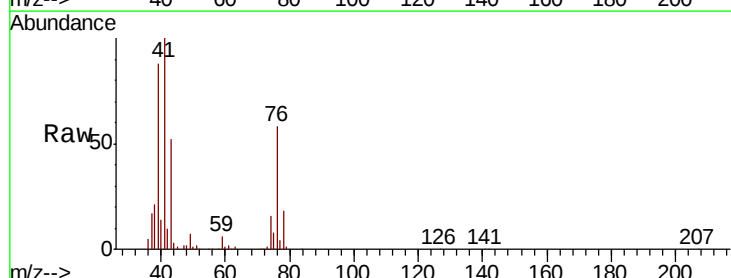
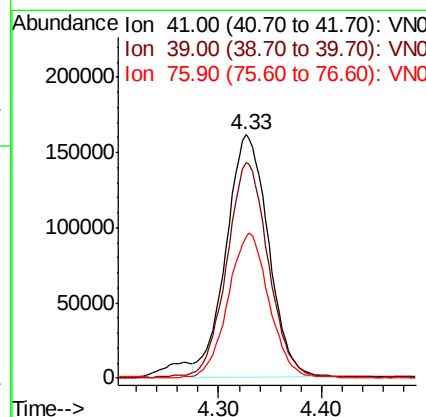
Manual Integrations
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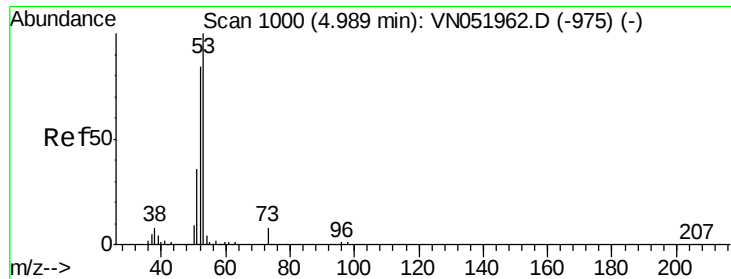
MMDadoda
10/29/2018 3:46:20 PM



#14
Allyl chloride
Concen: 41.179 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion	41	Resp	458441
Ion Ratio	100	Lower	Upper
41	100		
39	88.9	67.7	101.5
76	57.6	41.3	61.9





#15

Acrylonitrile

Concen: 224.280 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Instrument :

MSVOA_N

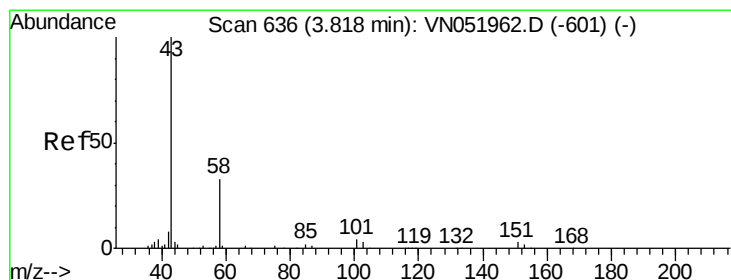
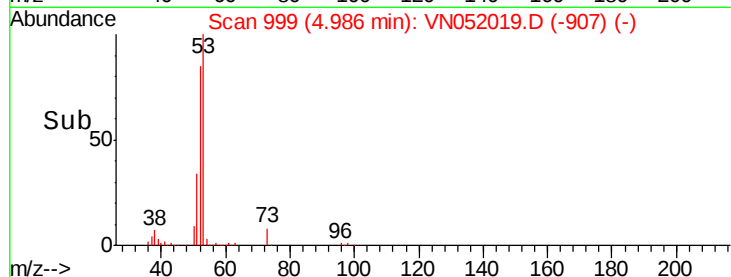
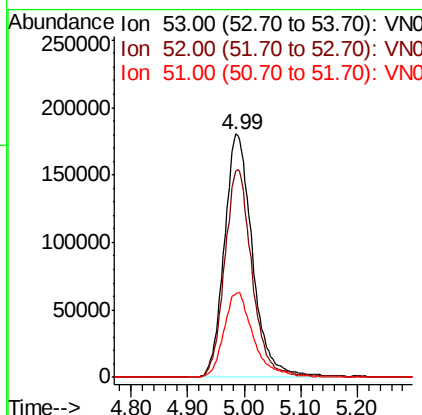
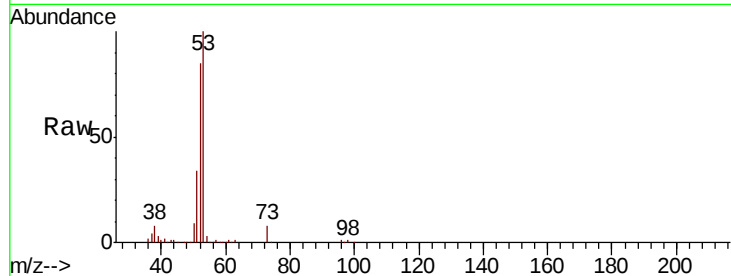
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	627125
Ion	Ratio	Lower	Upper
53	100		
52	82.7	67.0	100.4
51	36.2	29.5	44.3

Manual Integrations
APPROVED

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#16

Acetone

Concen: 206.125 ug/l

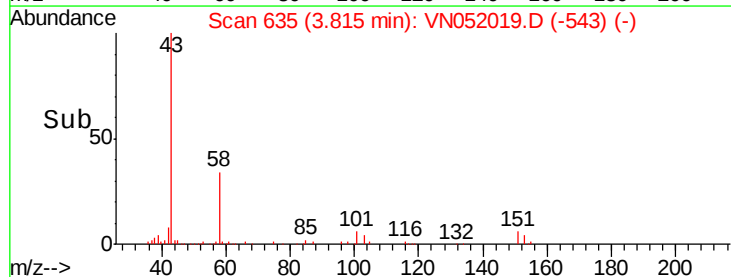
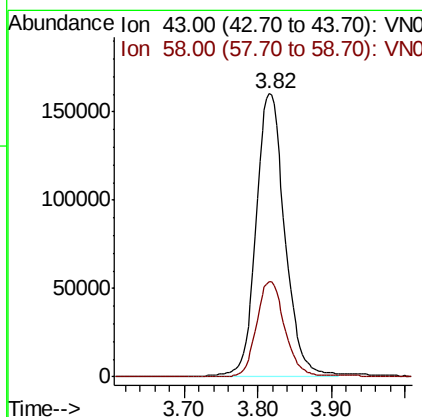
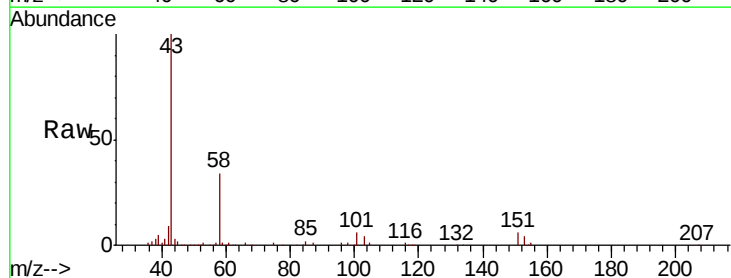
RT: 3.82 min Scan# 635

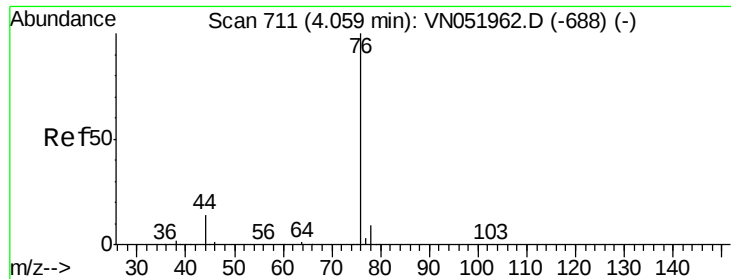
Delta R.T. -0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Tgt Ion:	43	Resp:	434662
Ion	Ratio	Lower	Upper
43	100		
58	33.7	26.7	40.1





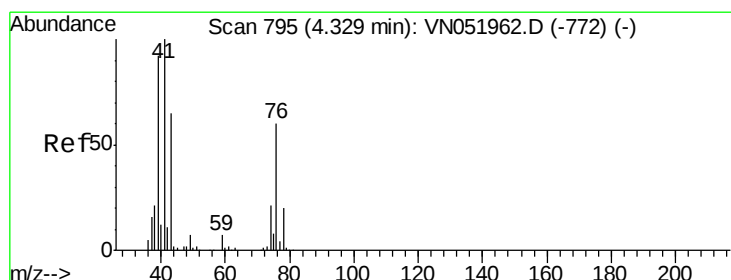
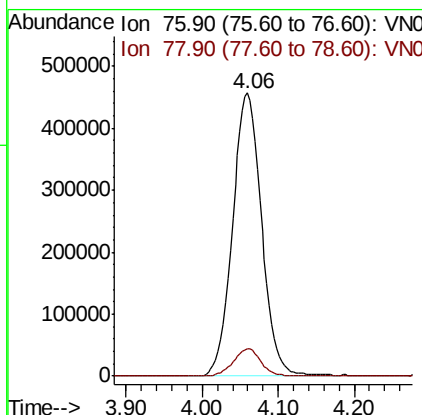
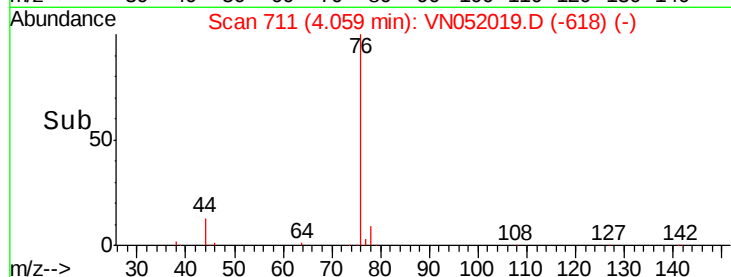
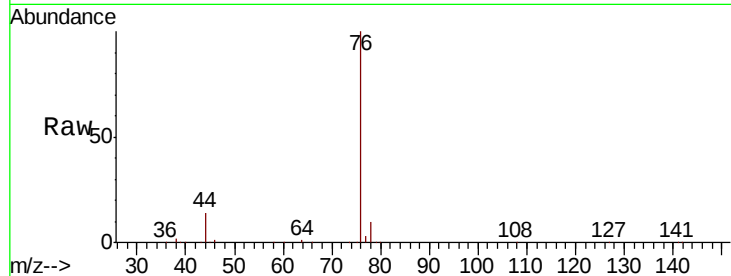
#17
Carbon Disulfide
Concen: 48.373 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1209774
Ion Ratio Lower Upper
76 100
78 9.6 7.3 10.9

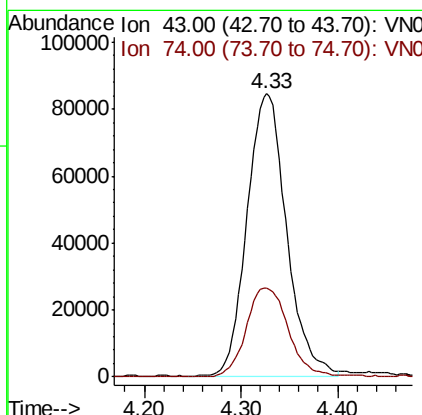
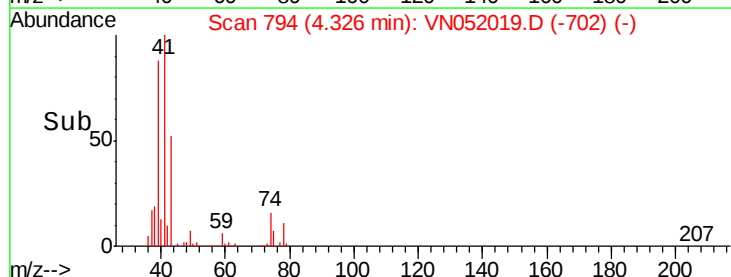
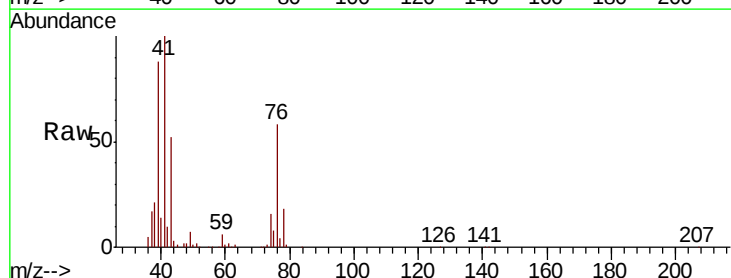
Manual Integrations
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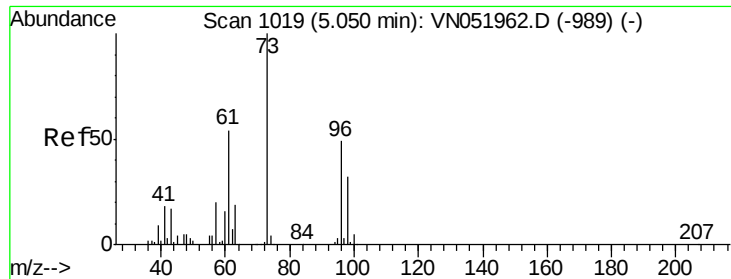
MMDadoda
10/29/2018 3:46:20 PM



#18
Methyl Acetate
Concen: 36.750 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion: 43 Resp: 239282
Ion Ratio Lower Upper
43 100
74 33.8 25.7 38.5





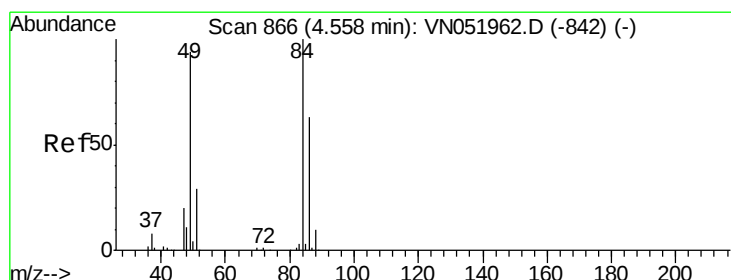
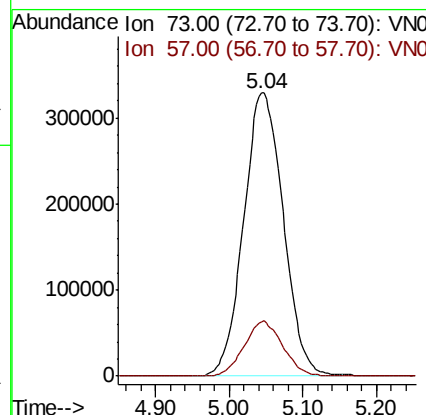
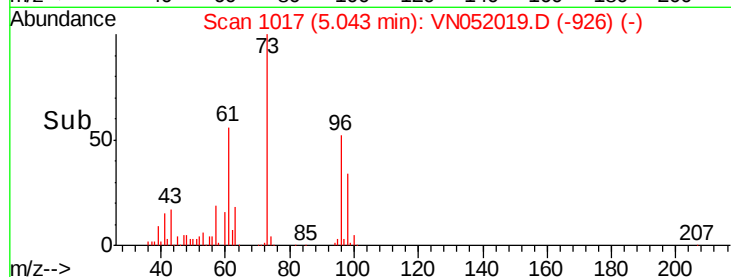
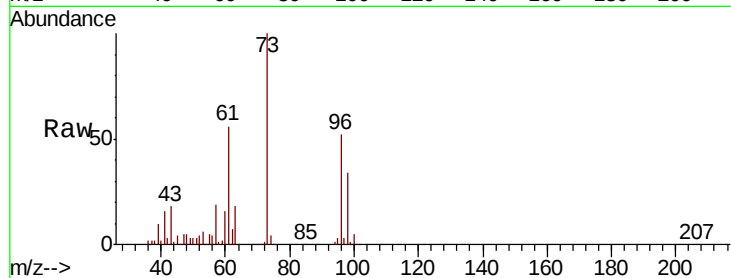
#19
Methvl tert-butvl Ether
Concen: 43.709 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 1234653
Ion Ratio Lower Upper
73 100
57 19.3 15.9 23.9

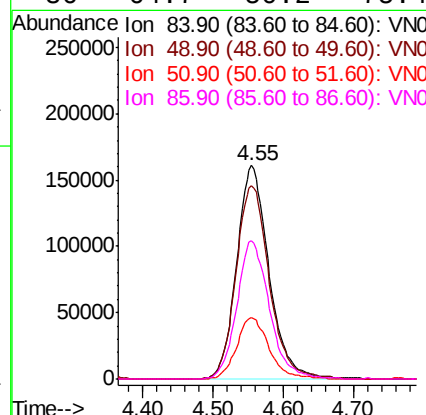
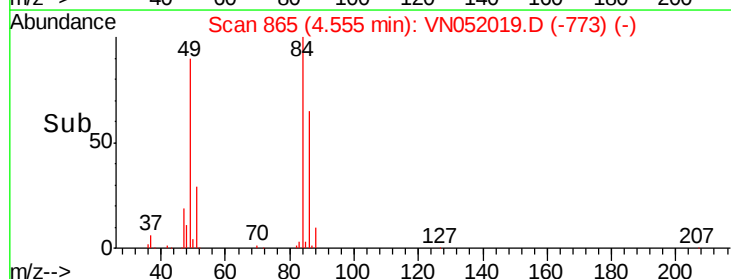
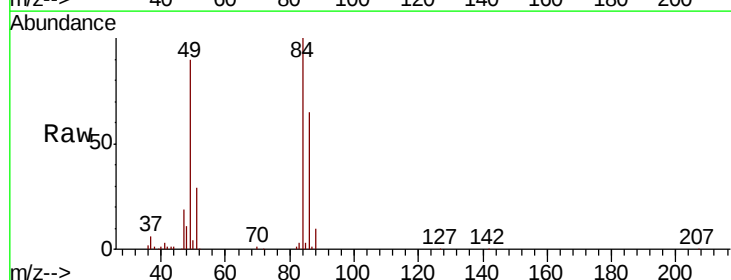
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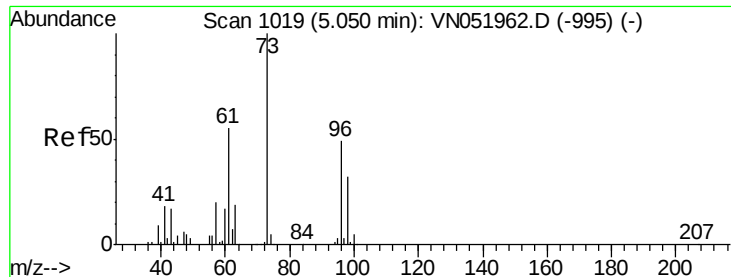
MMDadoda
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#20
Methylene Chloride
Concen: 41.639 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion: 84 Resp: 515089
Ion Ratio Lower Upper
84 100
49 90.3 75.4 113.0
51 28.7 23.1 34.7
86 64.7 50.2 75.4





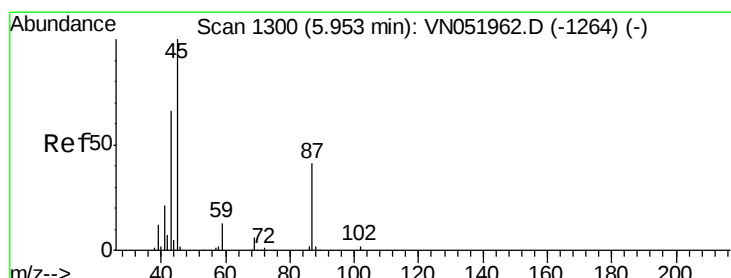
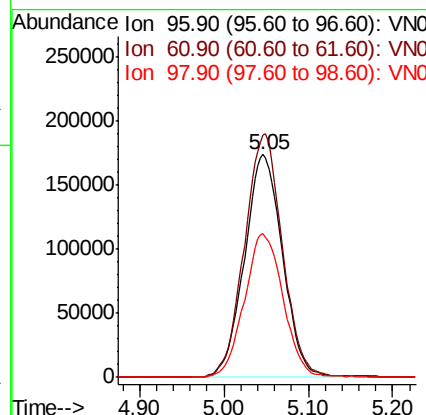
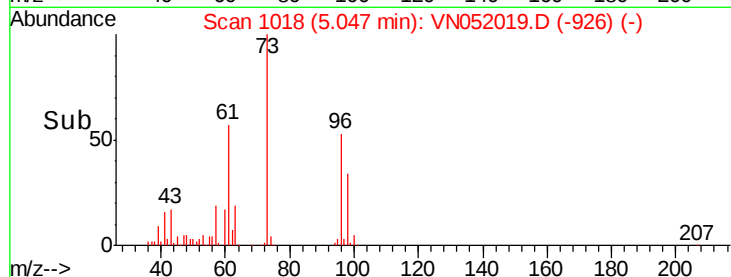
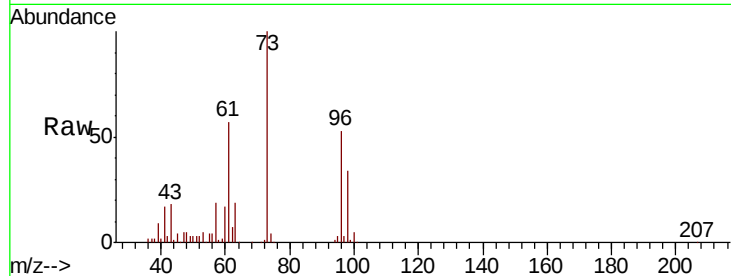
#21
trans-1,2-Dichloroethene
Concen: 45.713 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	108.9	89.0	133.4
98	64.4	51.8	77.8

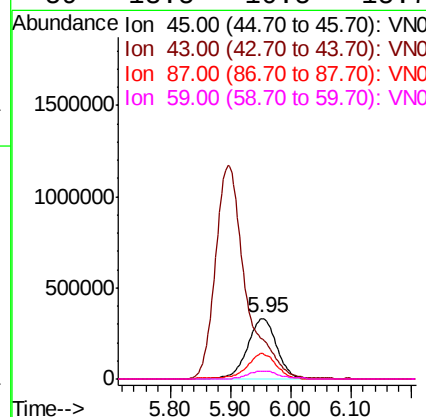
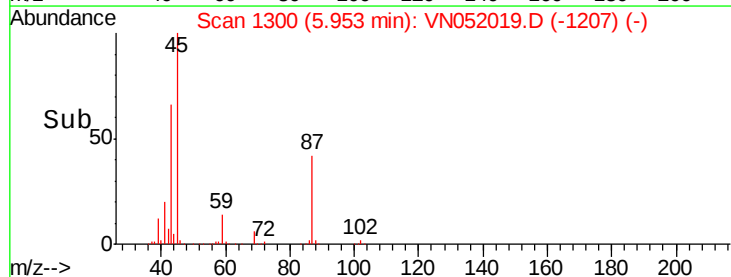
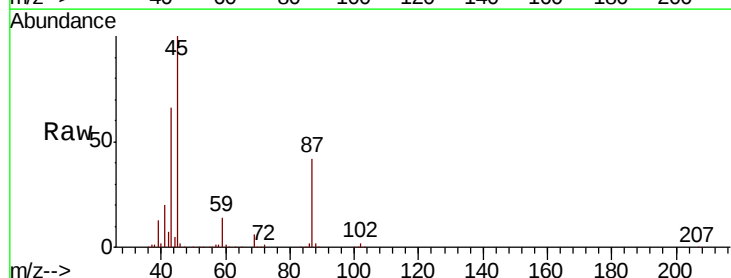
Manual Integrations
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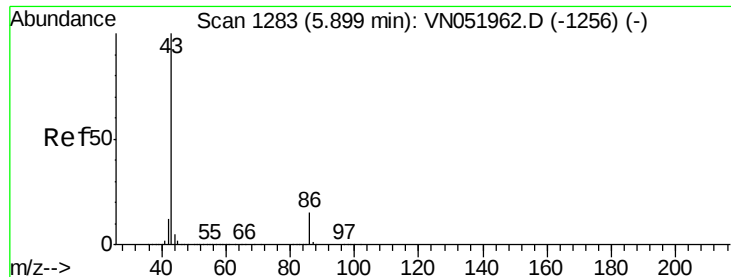
MMDadoda
10/29/2018 3:46:20 PM



#22
Diisopropyl ether
Concen: 44.422 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.8	52.9	79.3
87	42.1	33.4	50.0
59	13.5	10.5	15.7





#23

Vinyl Acetate

Concen: 234.602 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 4064981

Ion Ratio Lower Upper

43 100

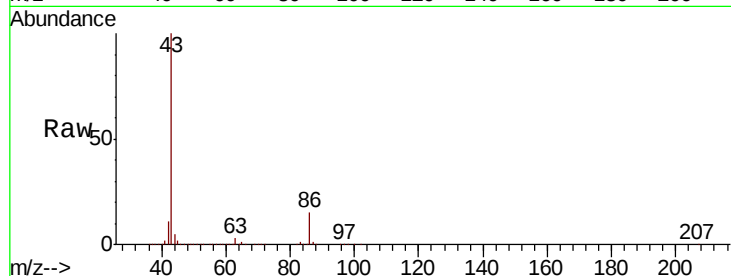
86 15.2 11.9 17.9

Manual Integrations

APPROVED

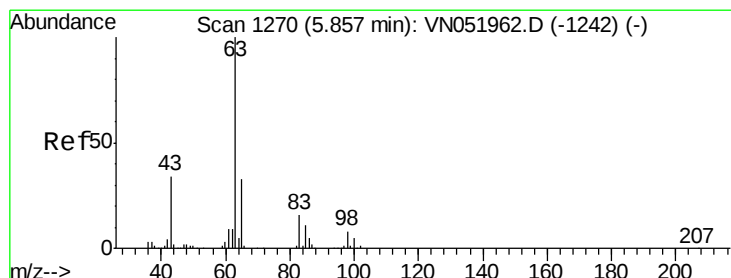
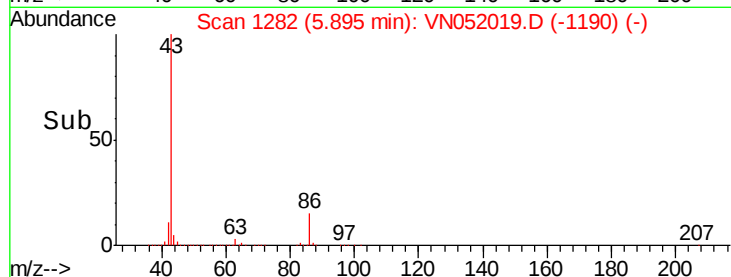
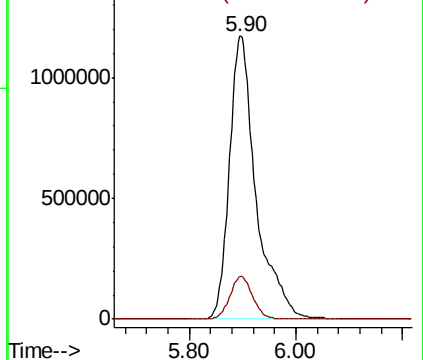
MMDadoda

10/29/2018 3:46:20 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 43.442 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

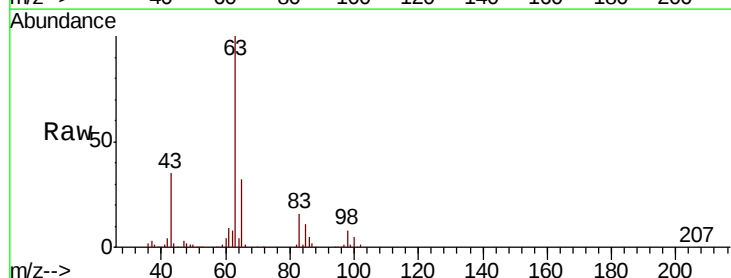
Tgt Ion: 63 Resp: 807852

Ion Ratio Lower Upper

63 100

98 7.8 3.9 11.7

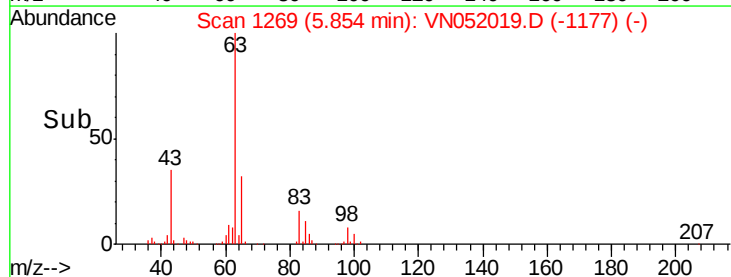
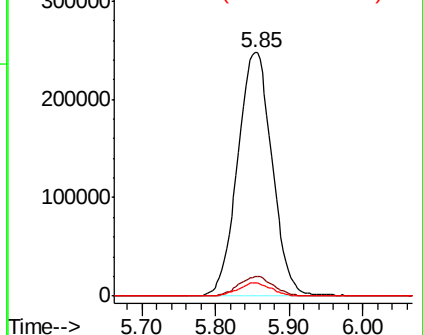
100 5.4 2.6 8.0

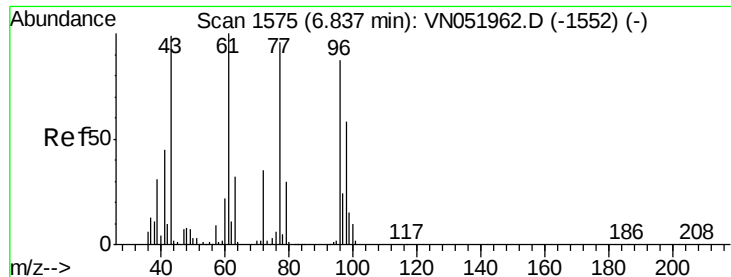


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 219.665 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 660359

Ion Ratio Lower Upper

43 100

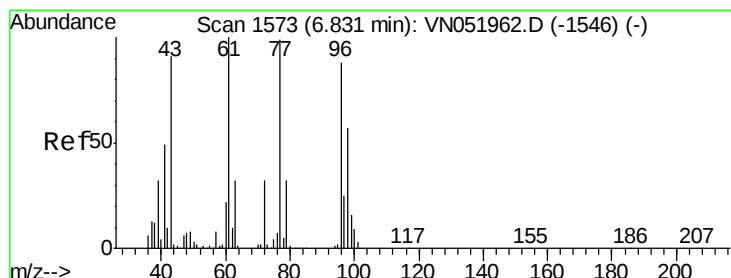
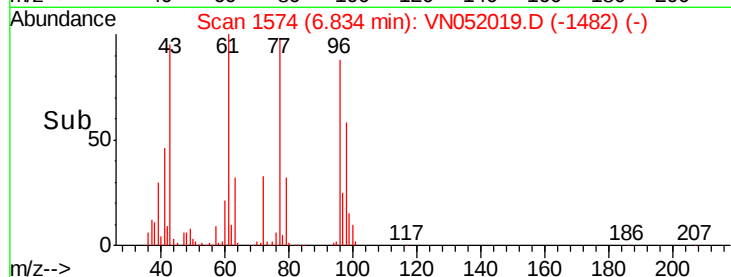
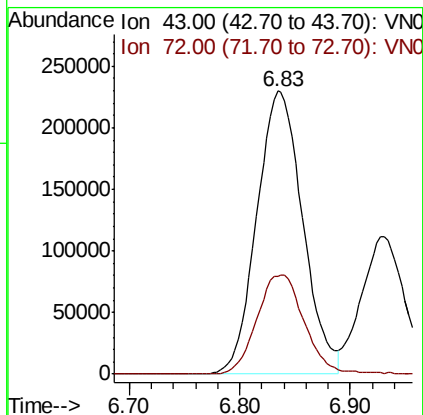
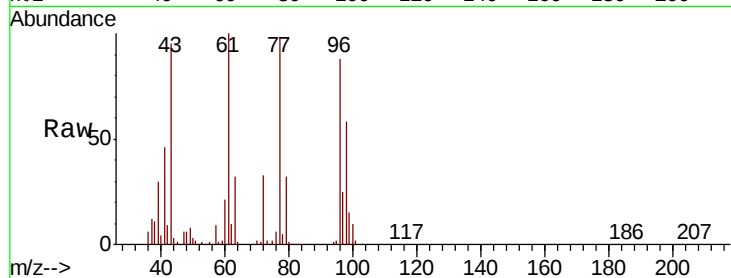
72 34.8 28.5 42.7

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#26

2,2-Dichloropropane

Concen: 45.897 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN052019.D

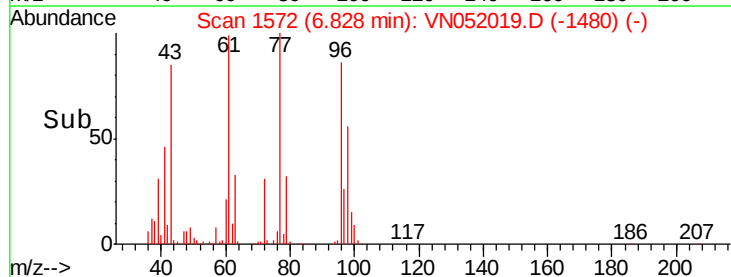
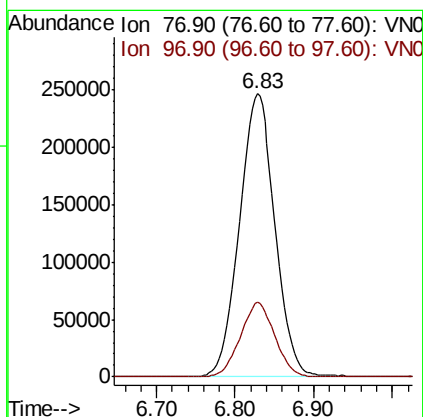
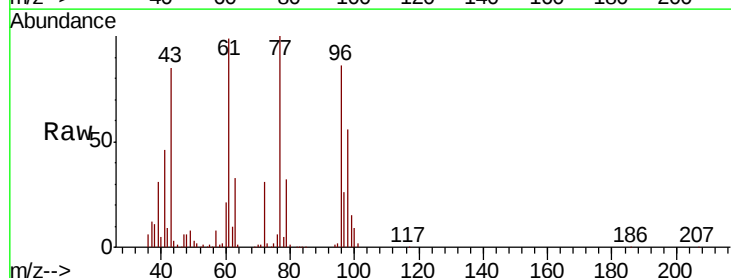
Acq: 26 Oct 2018 10:54

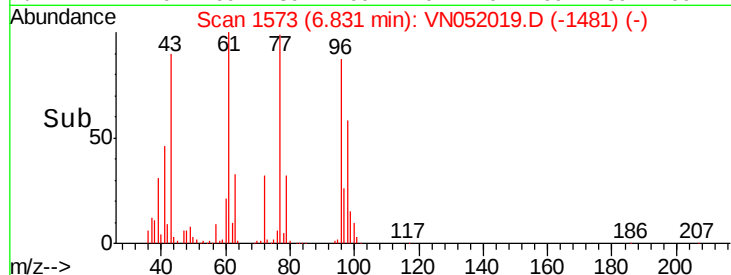
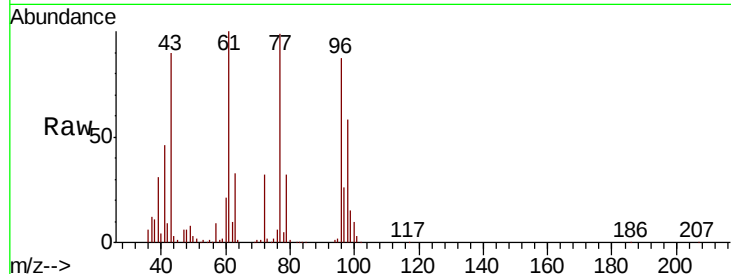
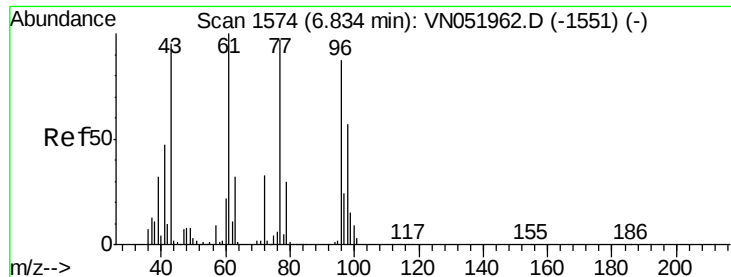
Tgt Ion: 77 Resp: 780888

Ion Ratio Lower Upper

77 100

97 25.7 12.6 37.6





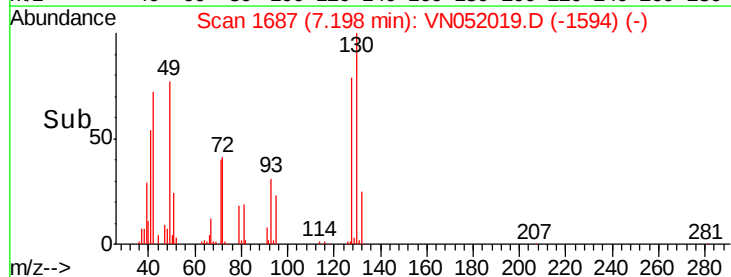
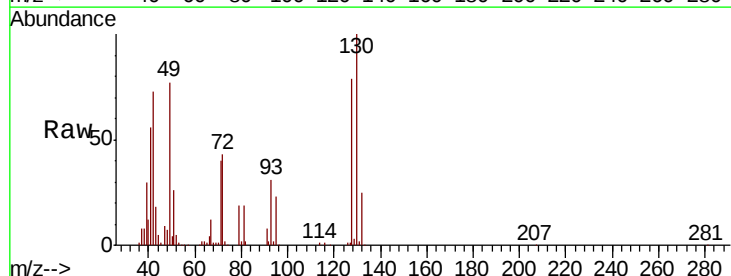
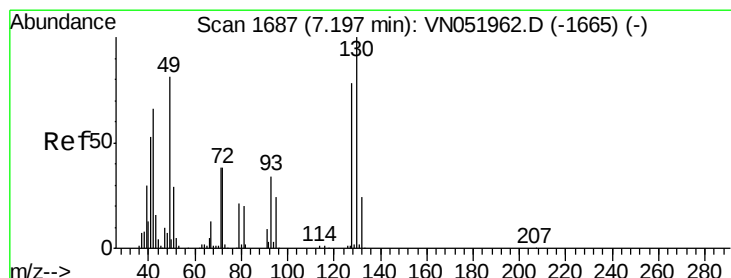
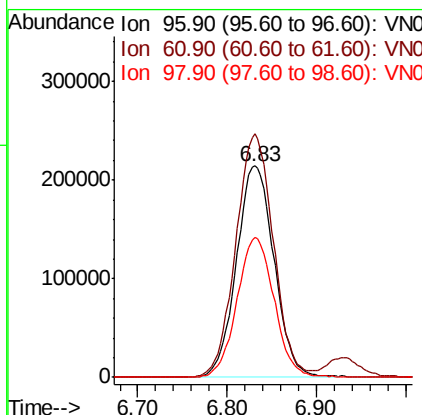
#27
 cis-1,2-Dichloroethene
 Concen: 45.183 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Tot Ion	Ratio	Resp	Lower	Upper
96	100	628922		
61	114.7		0.0	234.4
98	65.3		0.0	131.6

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

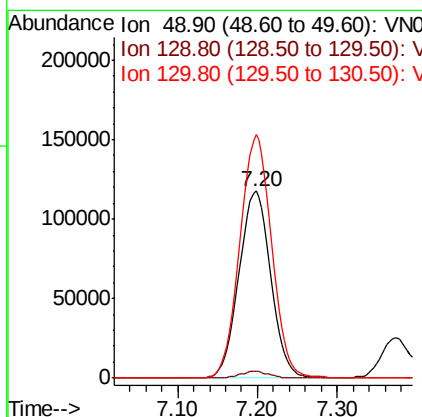
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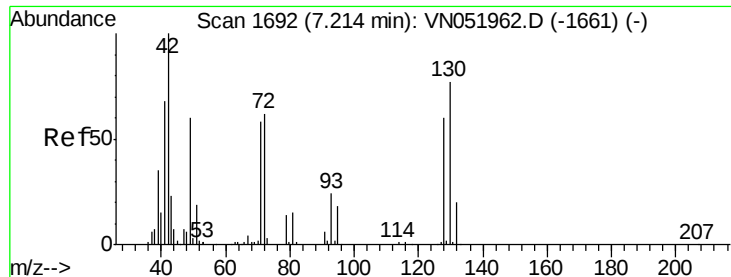
MMDadoda
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#28
 Bromochloromethane
 Concen: 42.262 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. 0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	316745		
129	3.3		0.0	5.4
130	130.0		97.0	145.6





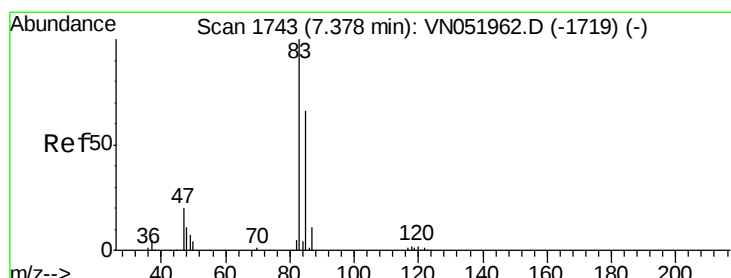
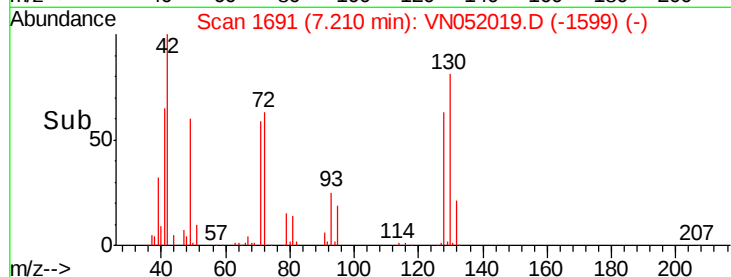
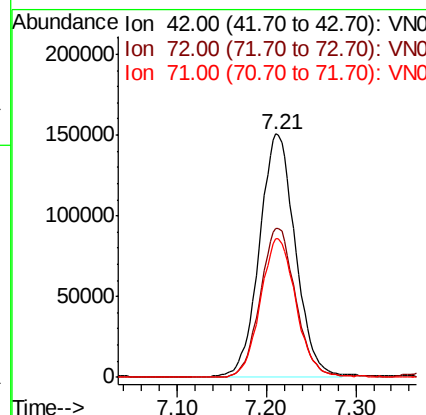
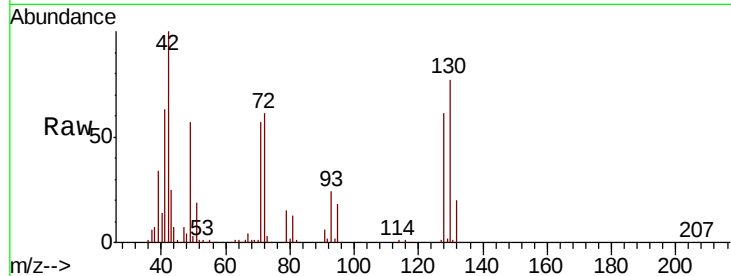
#29
Tetrahydrofuran
Concen: 207.060 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	60.4	47.5	71.3
71	56.4	45.4	68.2

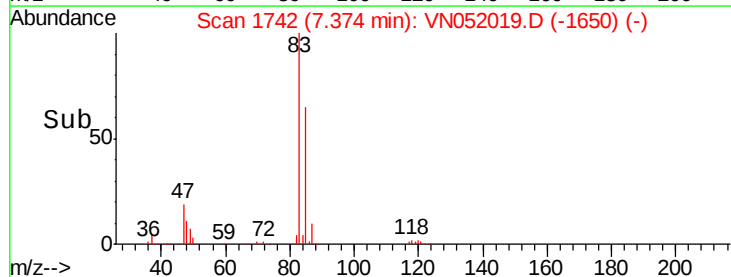
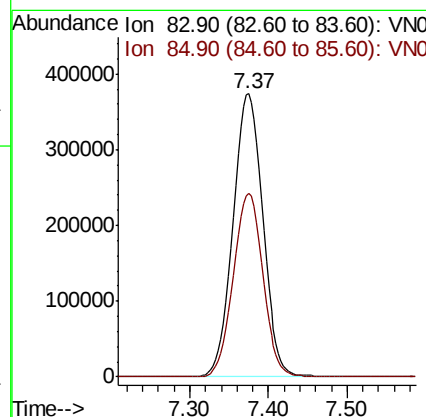
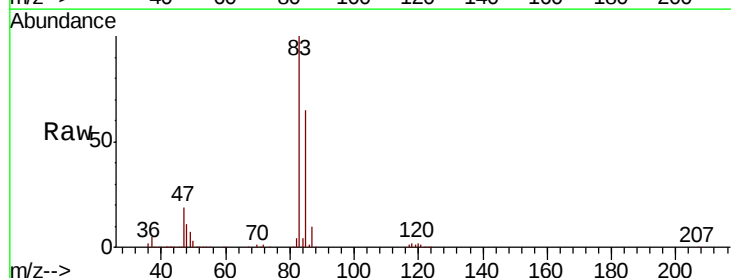
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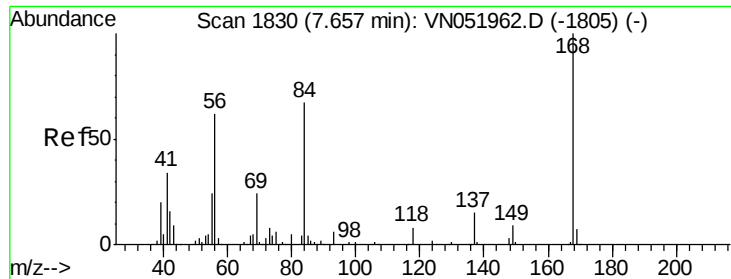
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#30
Chloroform
Concen: 43.339 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.8	79.2





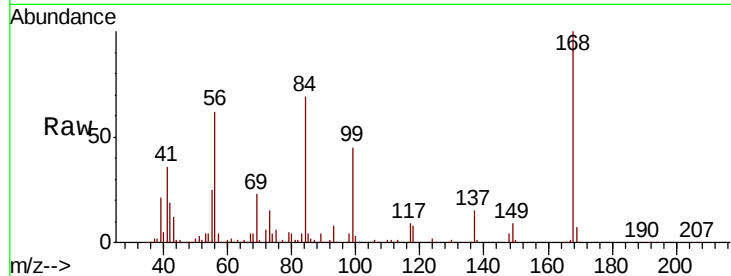
#31
Cyclohexane
Concen: 46.808 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

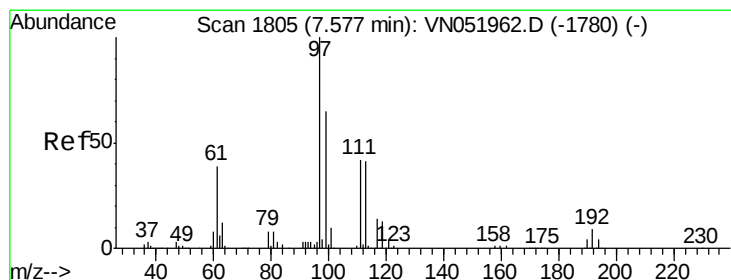
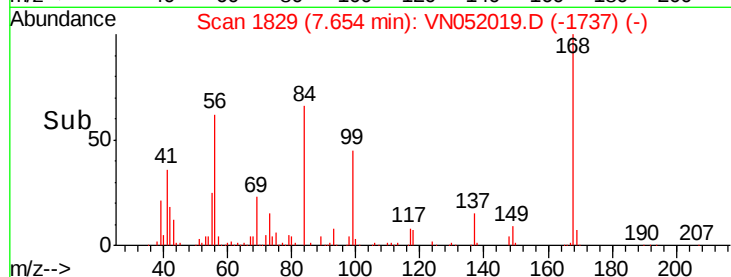
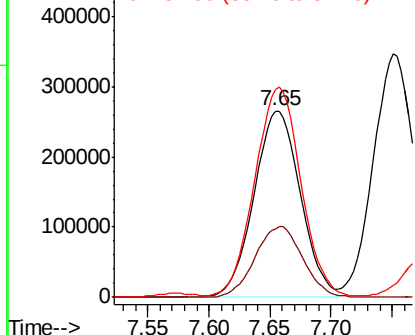
Tot Ion	Ratio	Lower	Upper
56	100		
69	36.9	31.2	46.8
84	109.9	86.3	129.5

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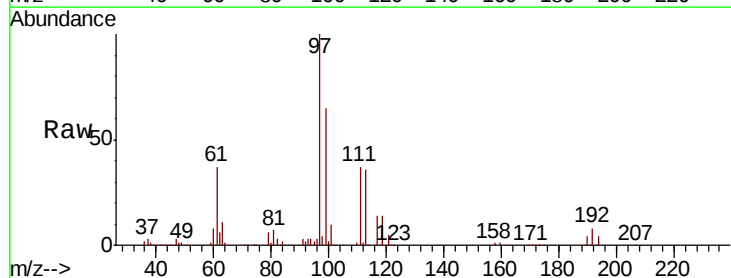


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

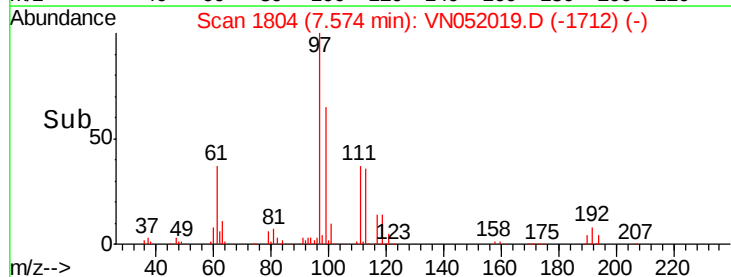
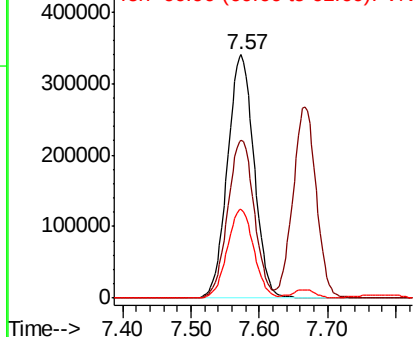


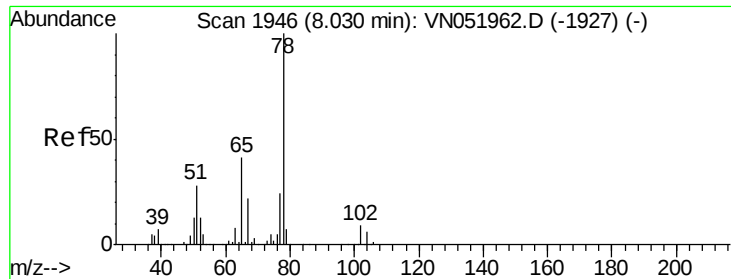
#32
1,1,1-Trichloroethane
Concen: 44.331 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.5	77.3
61	36.4	30.1	45.1



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





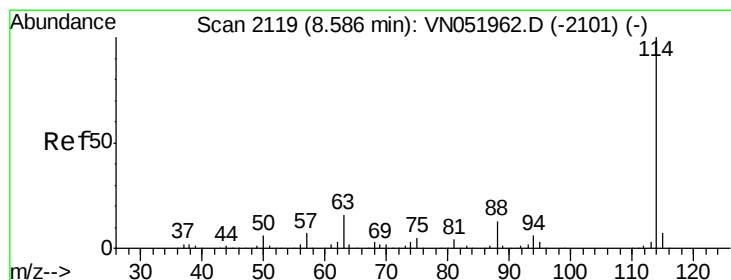
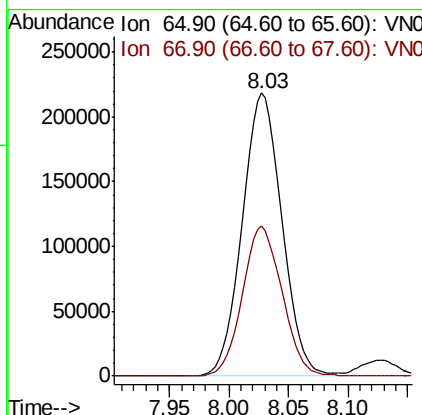
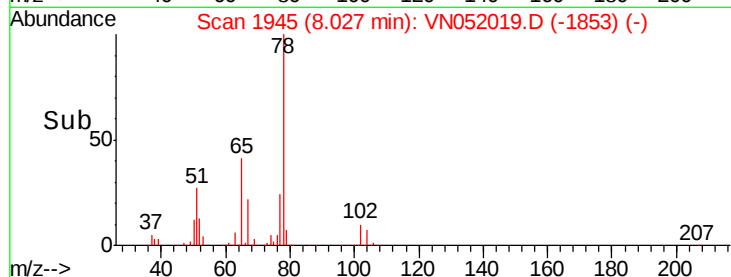
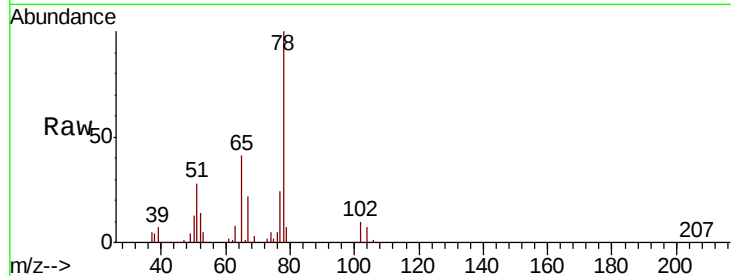
#33
 1,2-Dichloroethane-d4
 Concen: 44.331 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	105.8

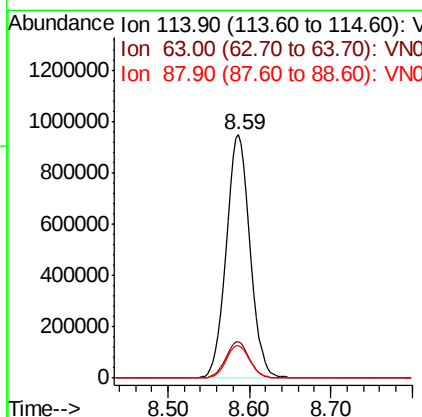
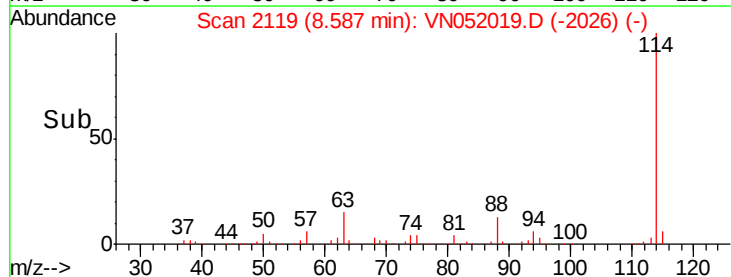
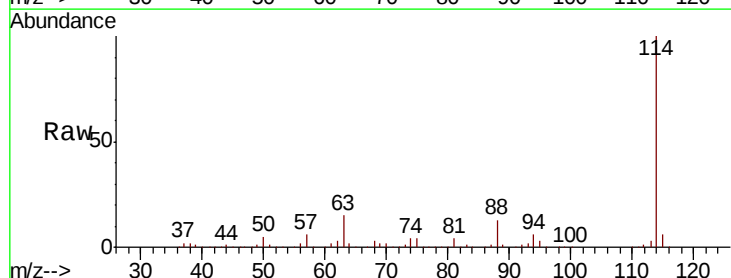
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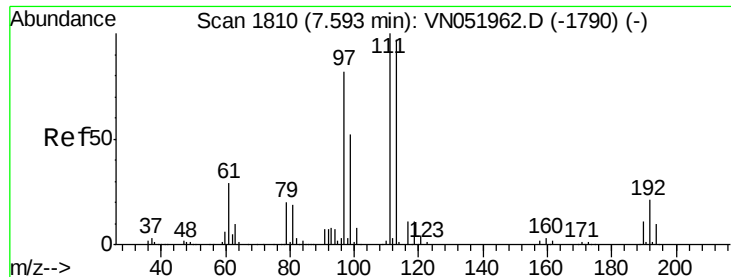
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Lower	Upper
114	100		
63	14.8	0.0	31.2
88	13.1	0.0	27.0





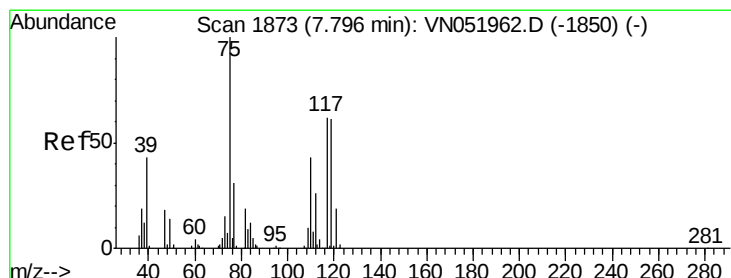
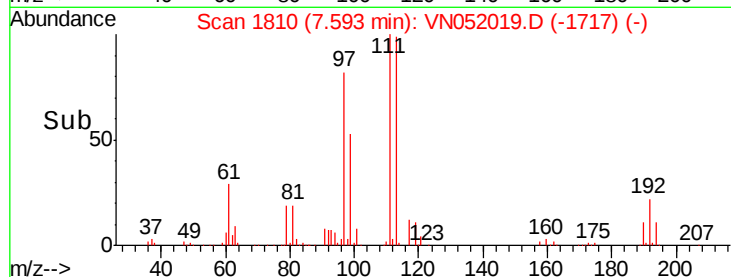
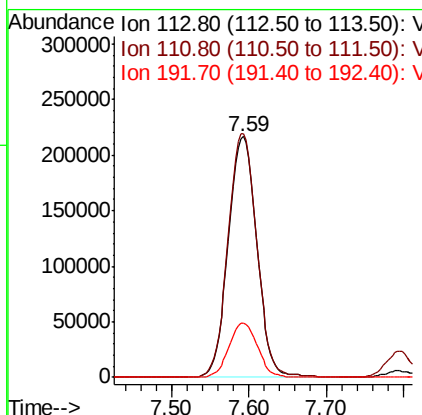
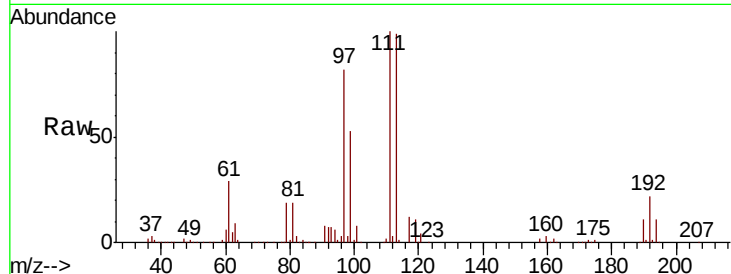
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	555065		
111	101.8	80.7	121.1	
192	22.6	17.2	25.8	

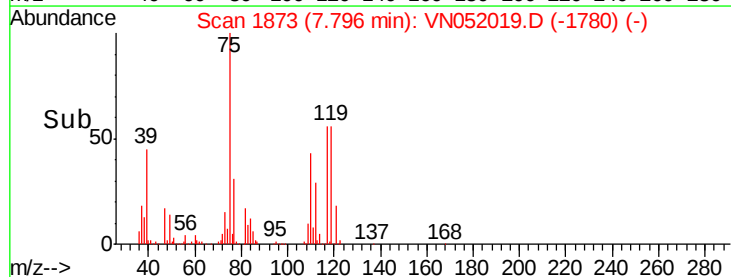
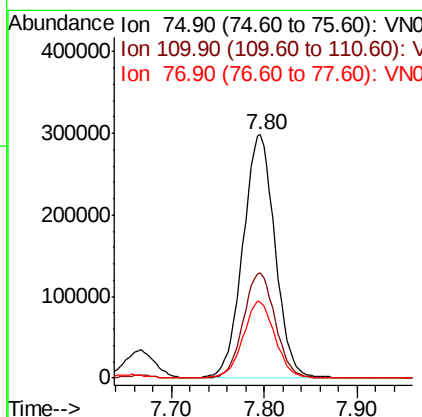
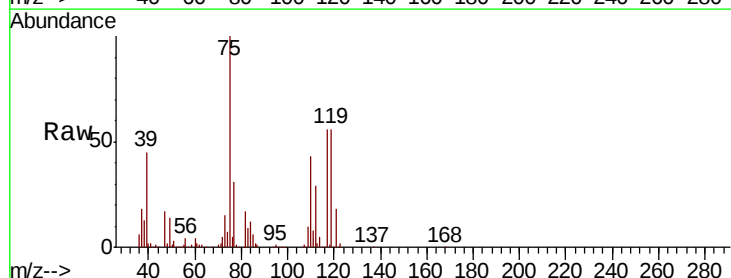
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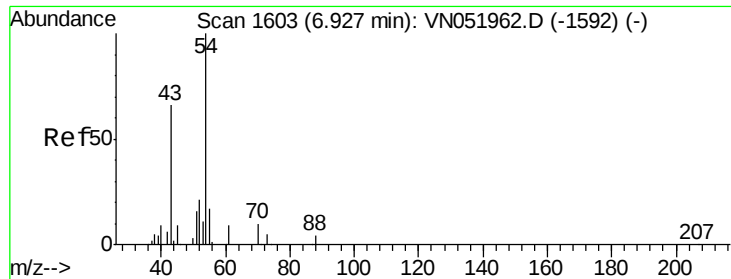
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 47.506 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	712511		
110	43.1	20.9	62.8	
77	31.6	24.9	37.3	





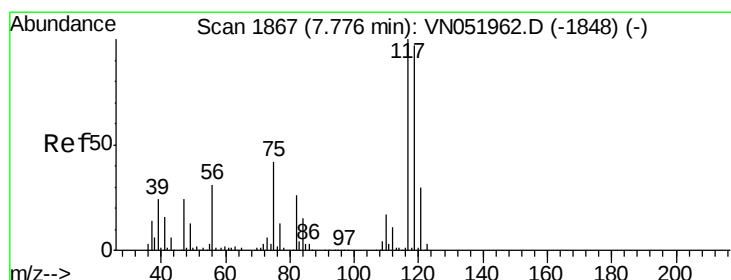
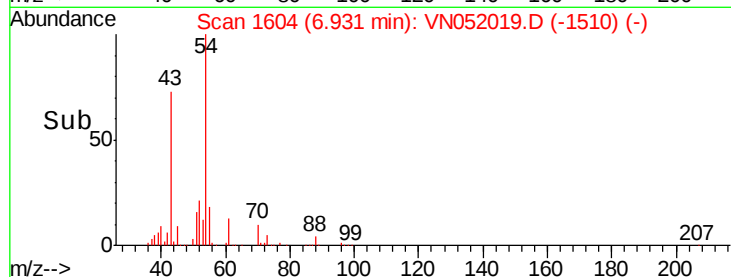
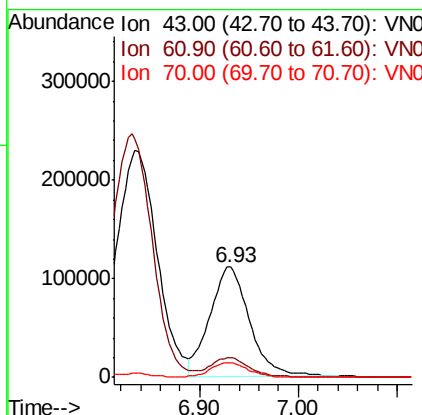
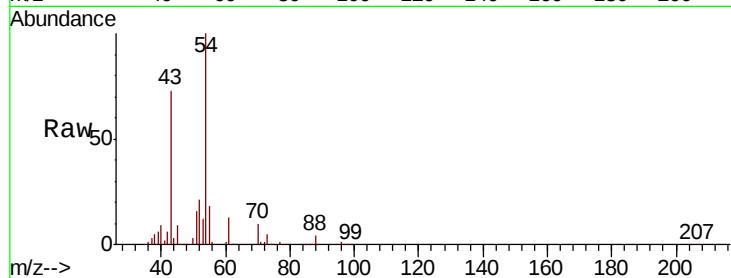
#37
Ethyl Acetate
Concen: 46.718 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.8	13.5	20.3
70	12.4	9.8	14.6

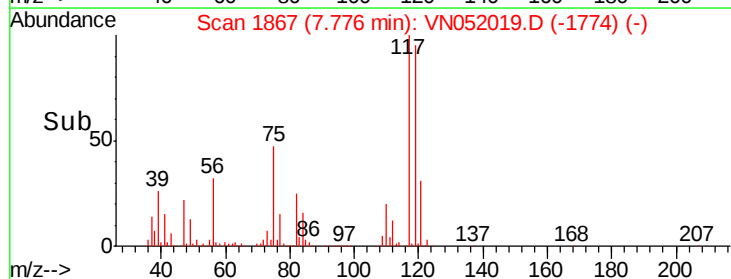
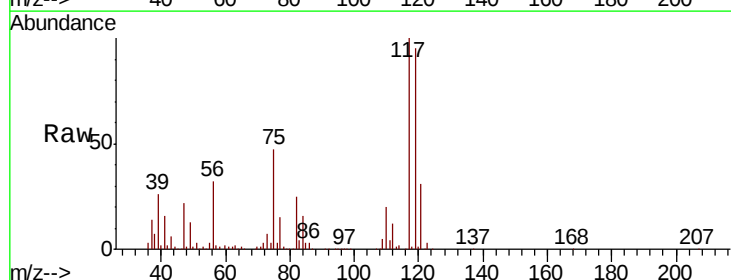
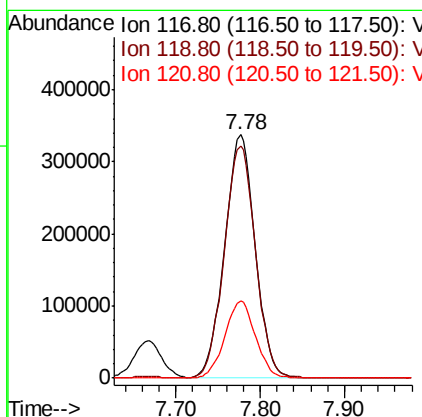
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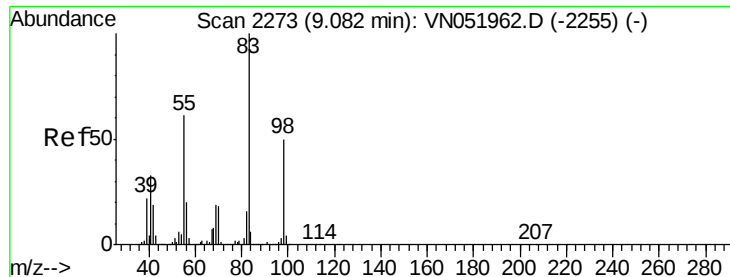
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#38
Carbon Tetrachloride
Concen: 49.277 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.4	77.4	116.0
121	31.5	24.2	36.4





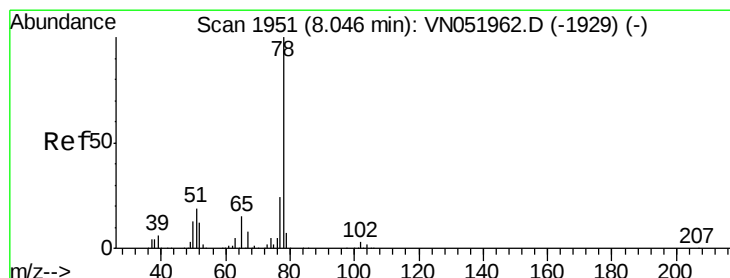
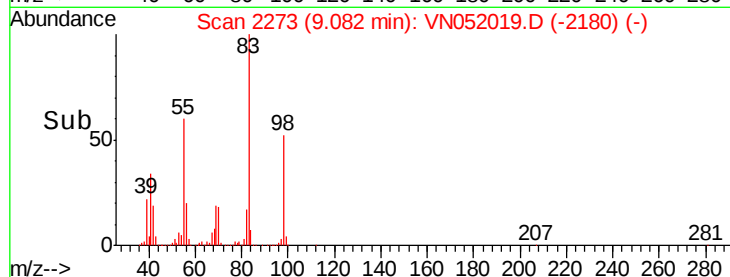
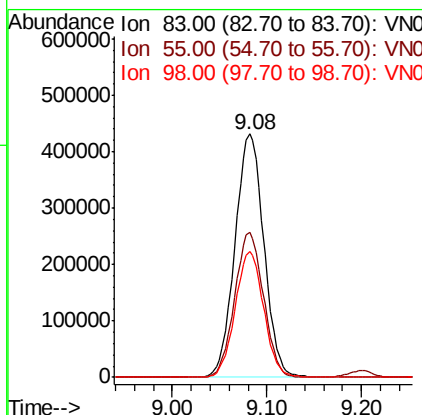
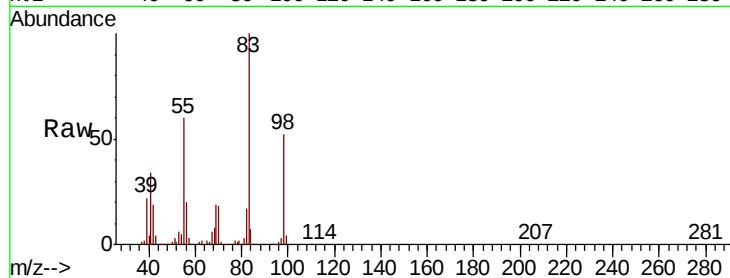
#39
Methvlcvclohexane
Concen: 50.015 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	59.6	48.9	73.3
98	51.8	40.2	60.2

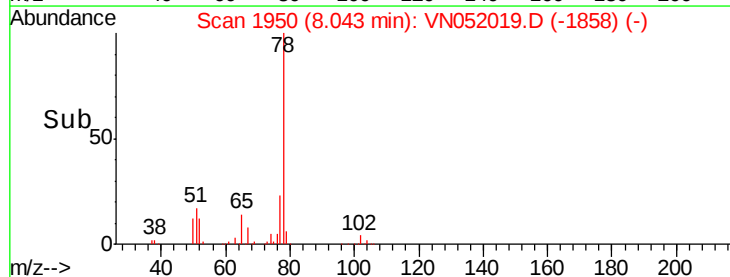
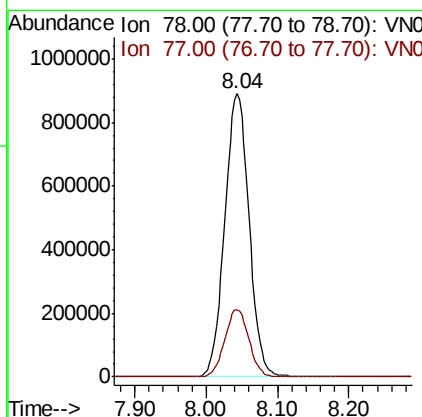
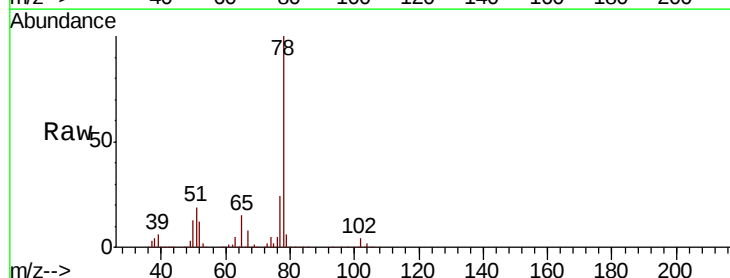
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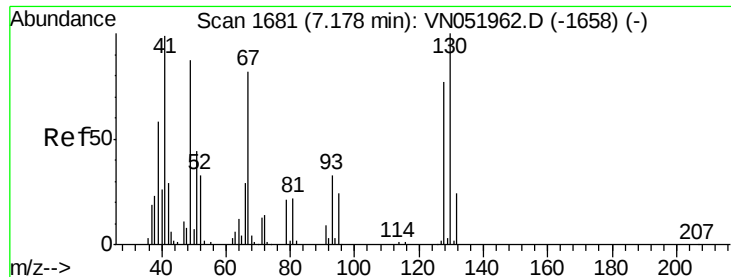
MMDadoda
10/29/2018 3:46:20 PM



#40
Benzene
Concen: 47.443 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.4	29.0





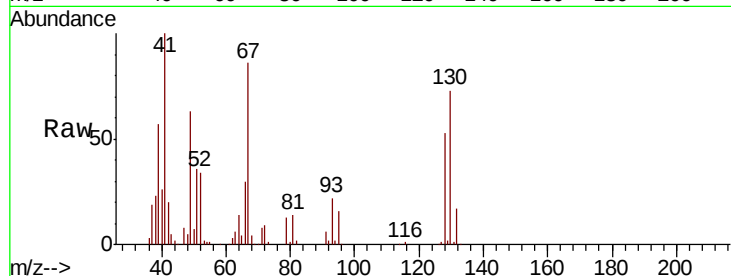
#41
Methacrylonitrile
Concen: 45.345 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.01 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	62.2	53.1	79.7
67	113.0	93.8	140.6
52	45.5	35.2	52.8

Manual Integrations
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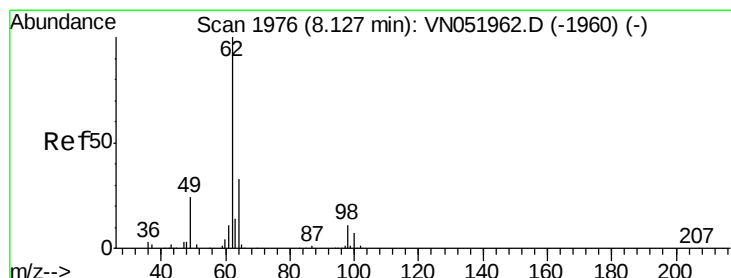
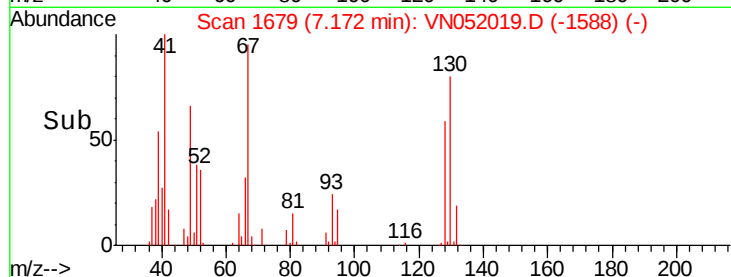
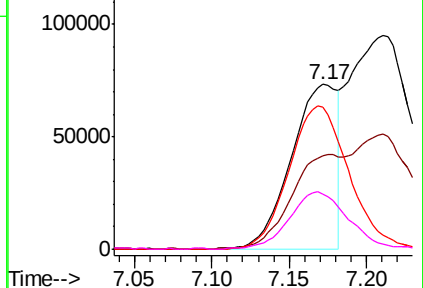
Abundance

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

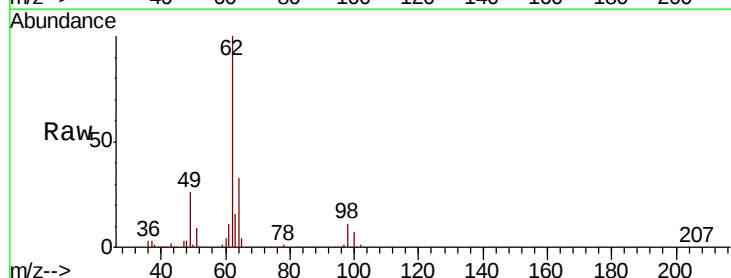
Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



#42
1,2-Dichloroethane
Concen: 45.154 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

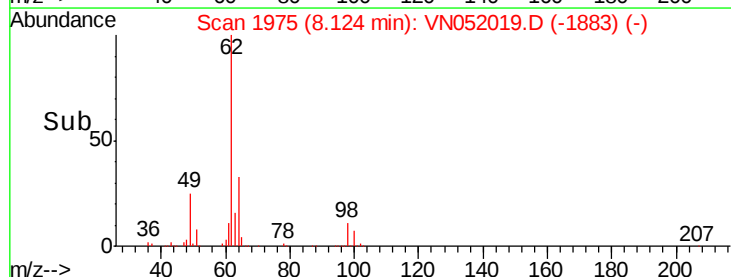
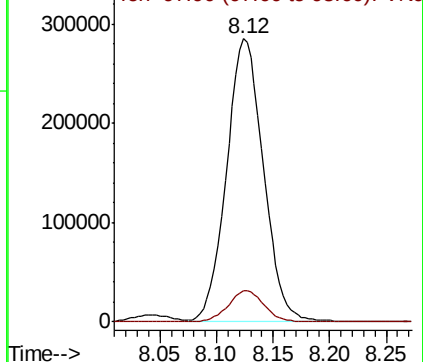
Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	20.6

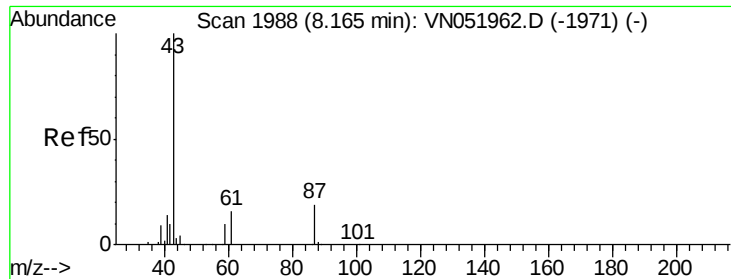


Abundance

Ion 61.90 (61.60 to 62.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





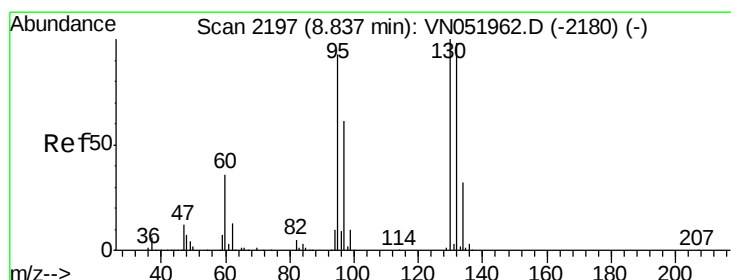
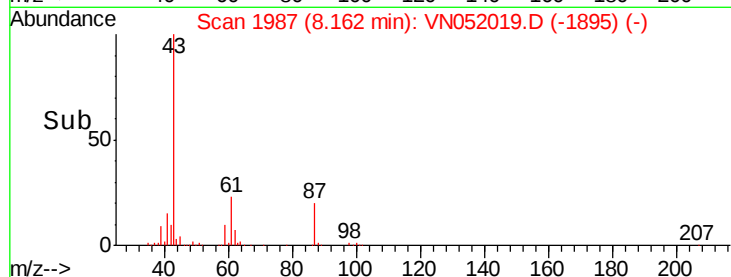
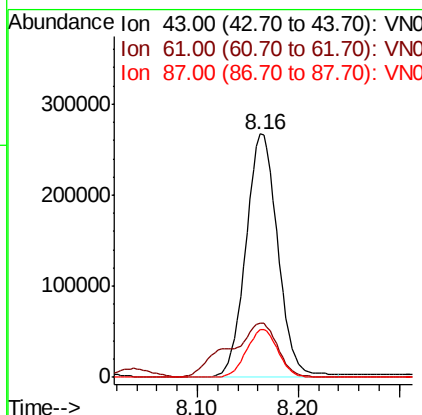
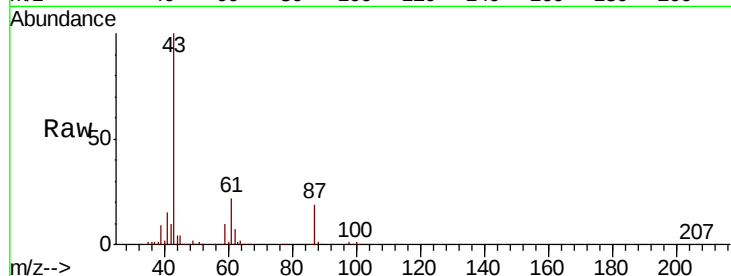
#43
Isopropyl Acetate
Concen: 46.549 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	22.5	17.2	25.8
87	19.5	15.2	22.8

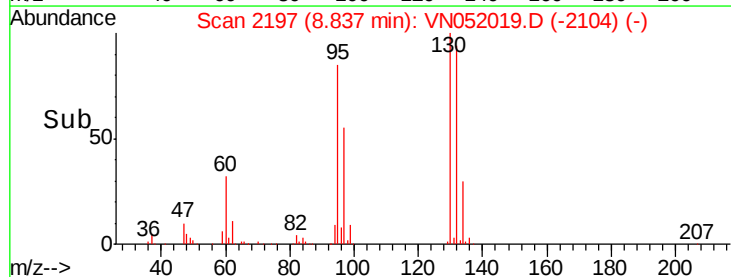
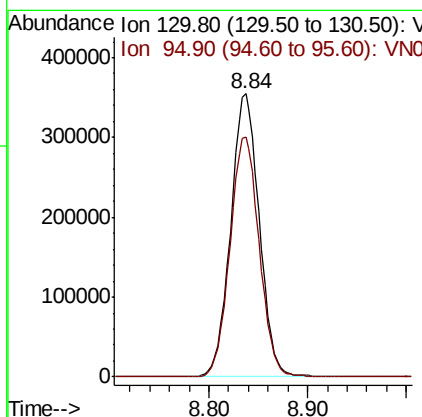
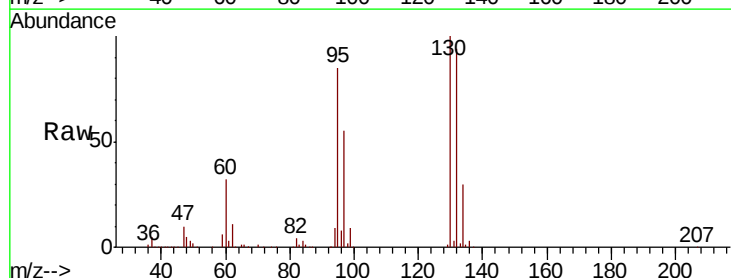
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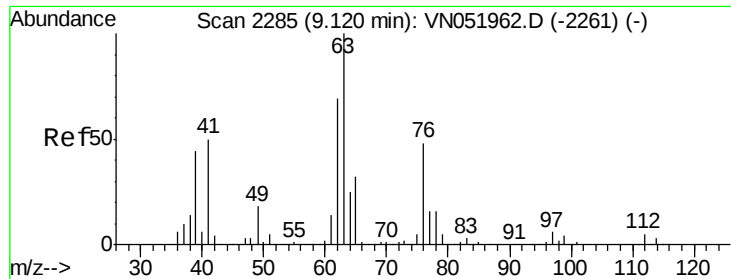
MMDadoda
10/29/2018 3:46:20 PM



#44
Trichloroethene
Concen: 50.039 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Lower	Upper
130	100		
95	84.8	0.0	185.2





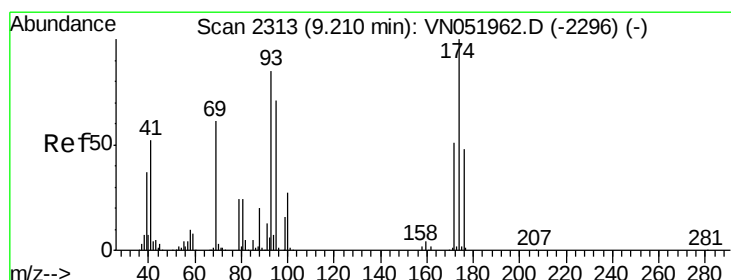
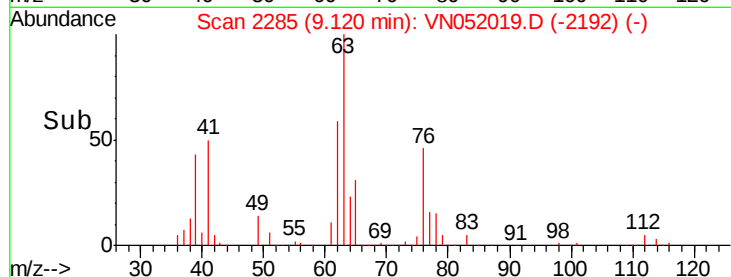
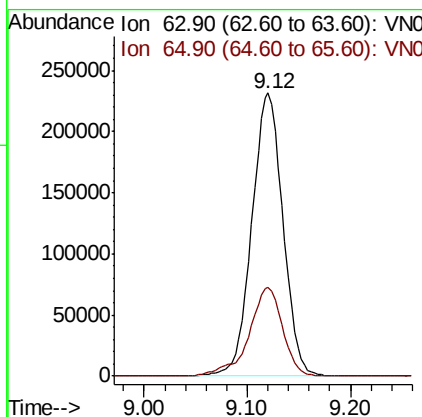
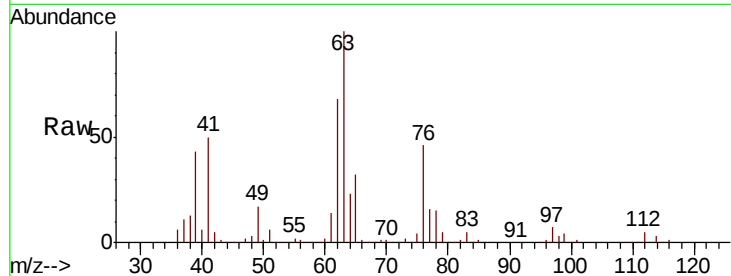
#45
 1,2-Dichloropropane
 Concen: 47.894 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 482471
 Ion Ratio Lower Upper
 63 100
 65 31.5 25.8 38.6

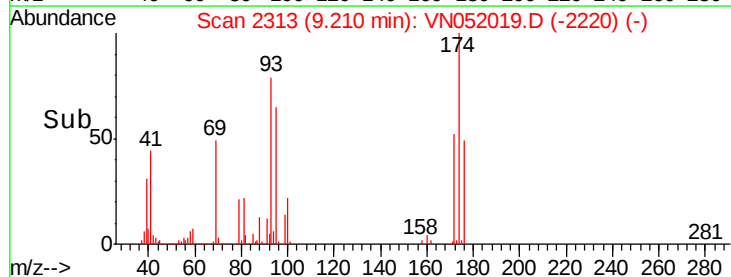
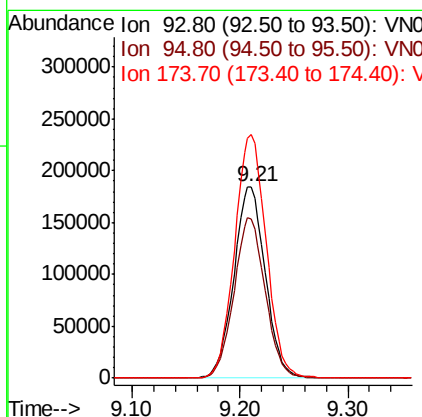
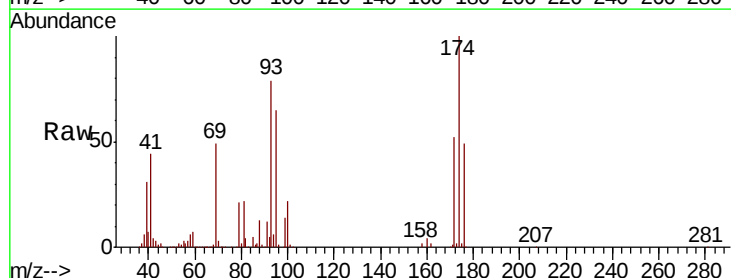
Manual Integrations
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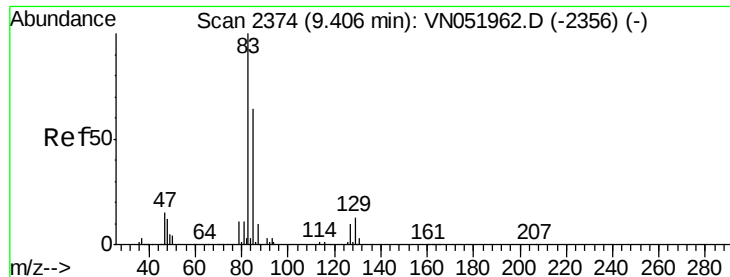
MMDadoda
 10/29/2018 3:46:20 PM



#46
 Dibromomethane
 Concen: 46.125 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Tgt Ion: 93 Resp: 374564
 Ion Ratio Lower Upper
 93 100
 95 83.1 66.7 100.1
 174 127.8 93.8 140.6





#47

Bromodichloromethane

Concen: 47.560 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Instrument :

MSVOA_N

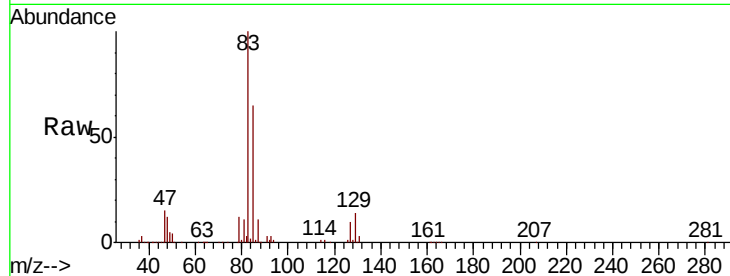
ClientSampleId :

VSTDCCC050

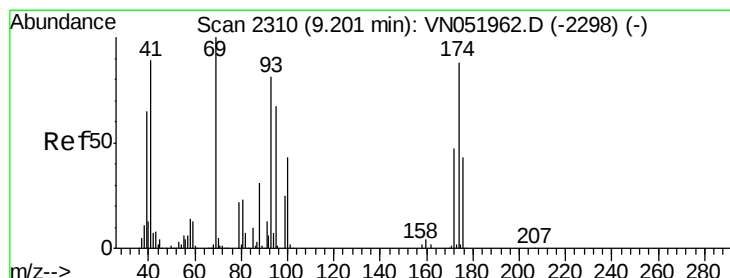
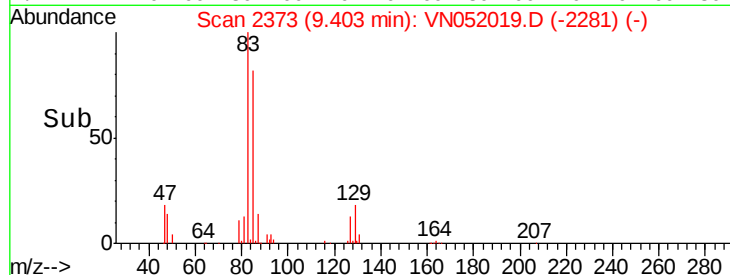
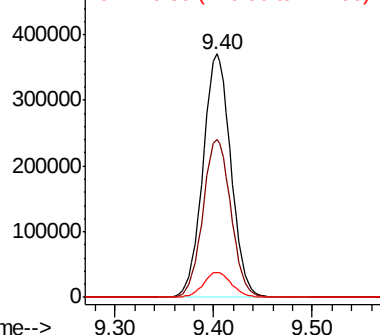
Tot Ion:	83	Resp:	729399
Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.0	76.4
127	10.4	7.8	11.8

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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 46.580 ug/l

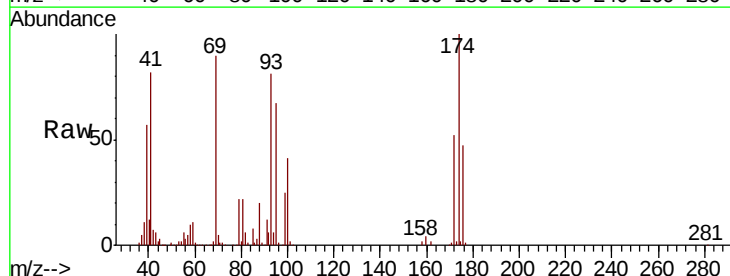
RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

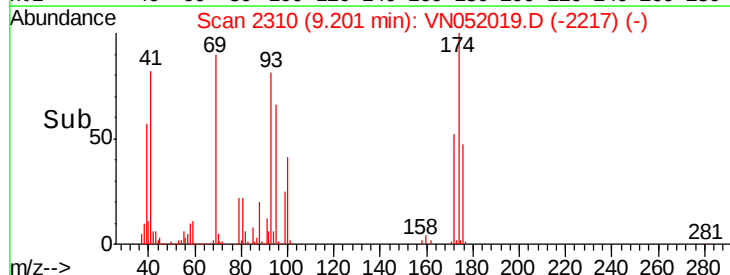
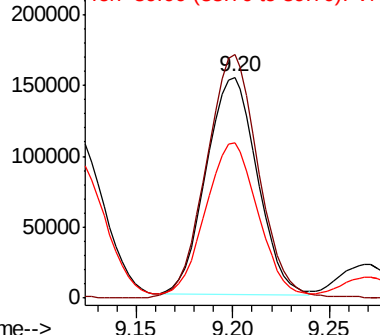
Lab File: VN052019.D

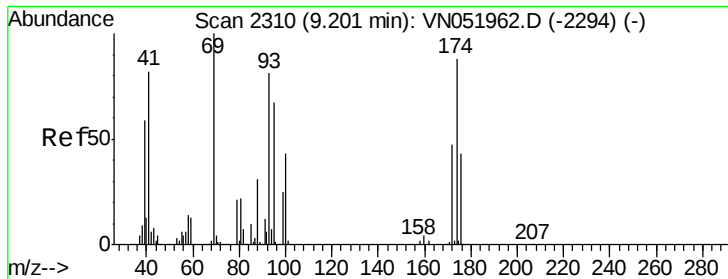
Acq: 26 Oct 2018 10:54

Tgt Ion:	41	Resp:	282802
Ion	Ratio	Lower	Upper
41	100		
69	112.9	92.2	138.4
39	73.6	60.2	90.4



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 739.326 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Instrument :

MSVOA_N

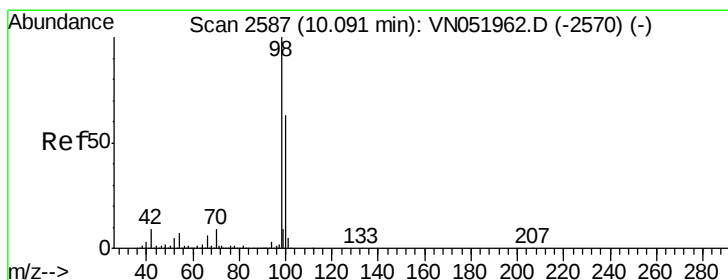
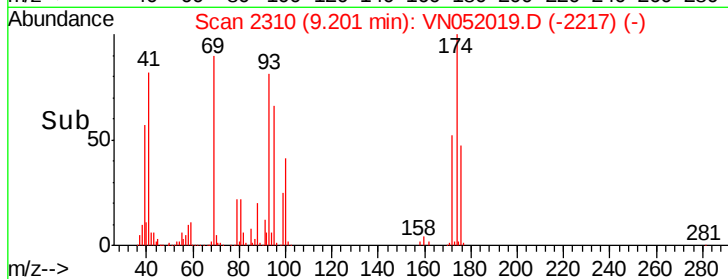
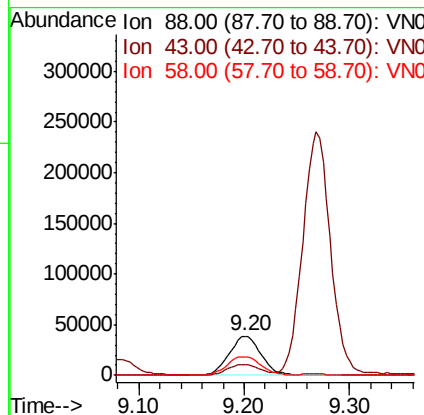
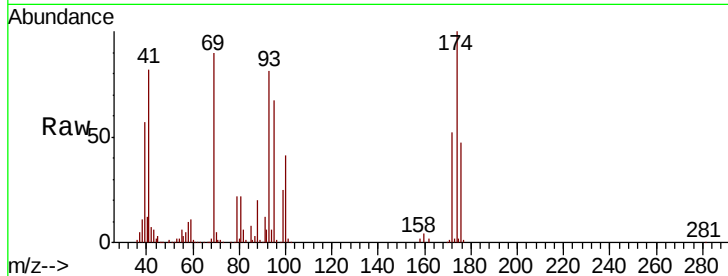
ClientSampleId :

VSTDCCC050

Tot Ion:	88	Resp:	82306
Ion	Ratio	Lower	Upper
88	100		
43	25.8	18.8	28.2
58	49.9	39.8	59.6

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#50

Toluene-d8

Concen: 739.326 ug/l

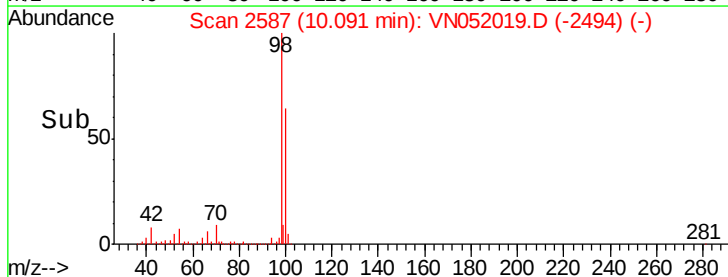
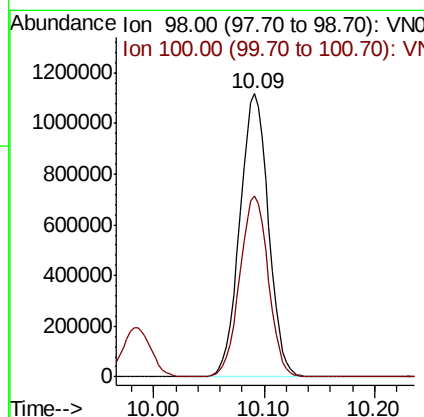
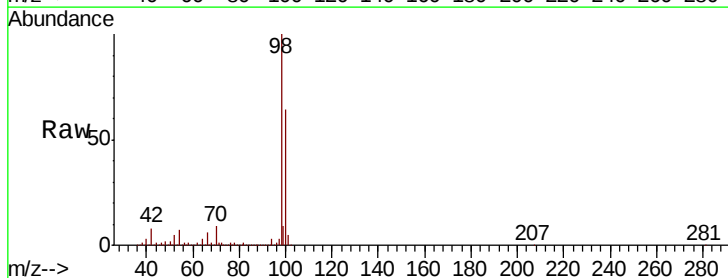
RT: 10.09 min Scan# 2587

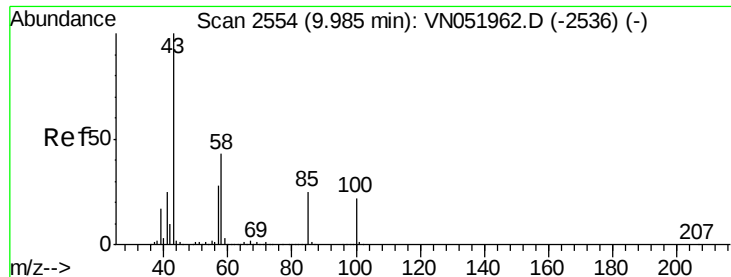
Delta R.T. 0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Tgt Ion:	98	Resp:	2006881
Ion	Ratio	Lower	Upper
98	100		
100	63.6	50.7	76.1





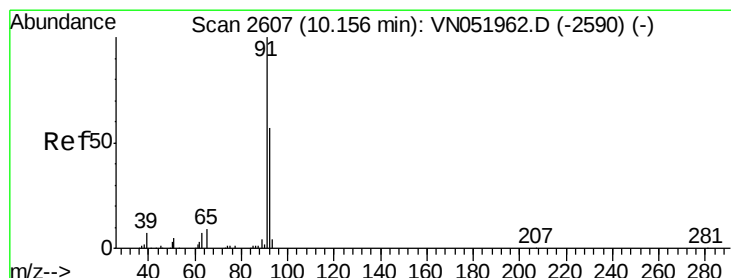
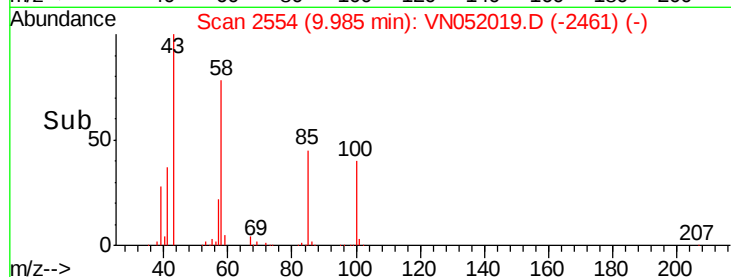
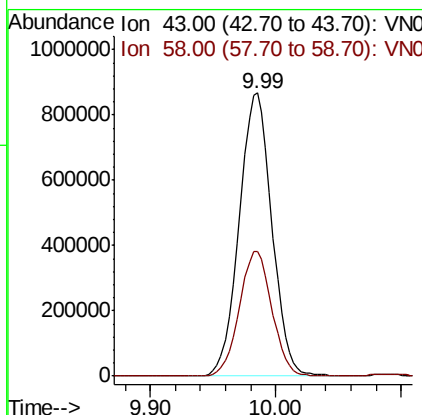
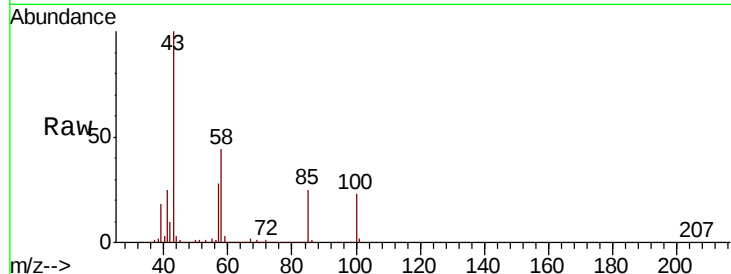
#51
4-Methyl-2-Pentanone
Concen: 226.957 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1568104
Ion Ratio Lower Upper
43 100
58 44.0 34.8 52.2

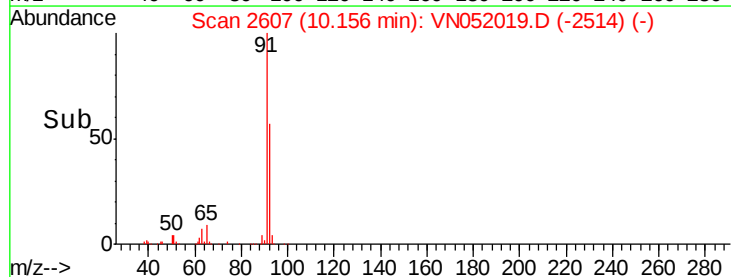
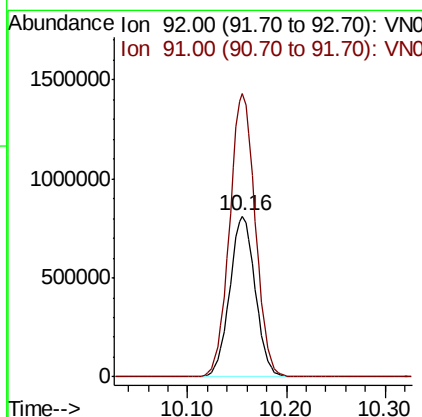
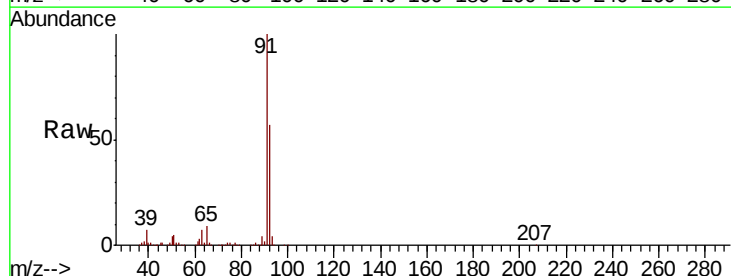
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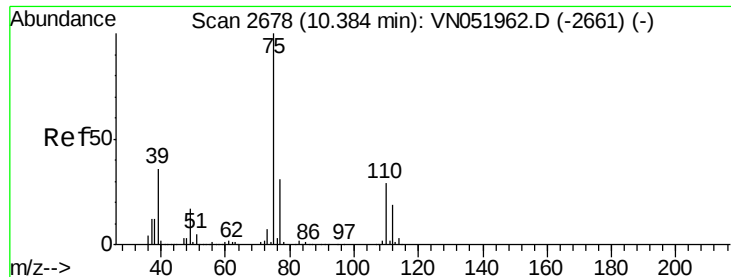
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#52
Toluene
Concen: 48.491 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion: 92 Resp: 1464334
Ion Ratio Lower Upper
92 100
91 177.3 139.8 209.6





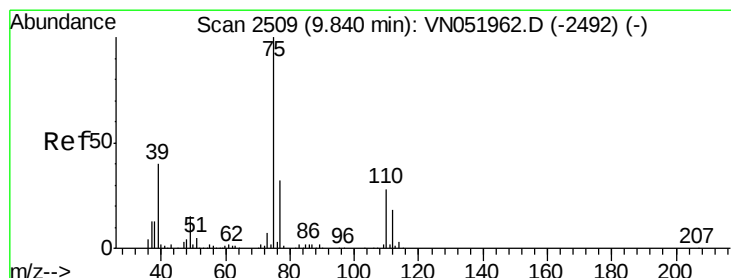
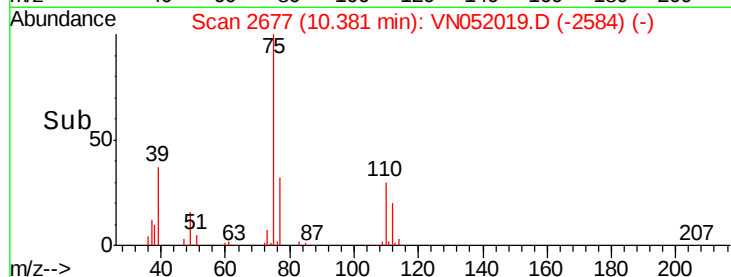
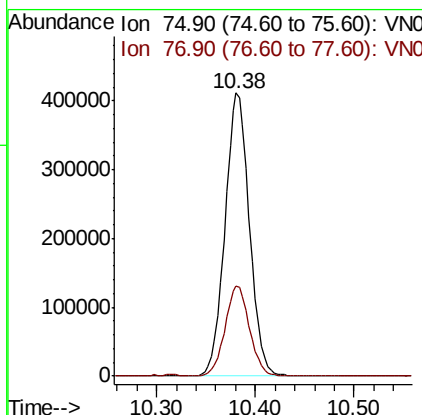
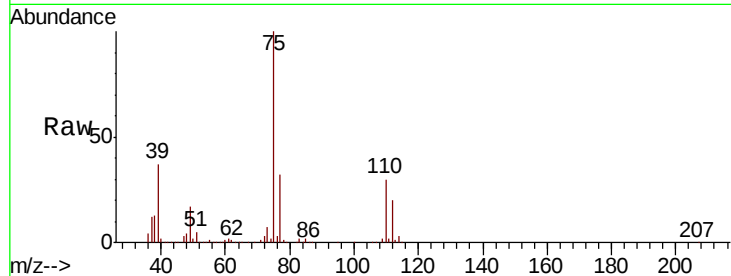
#53
t-1,3-Dichloropropene
Concen: 45.580 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.0	37.4

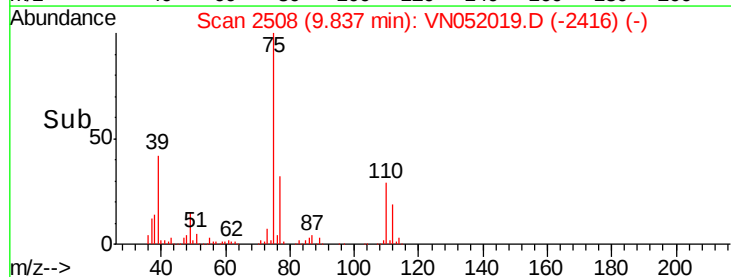
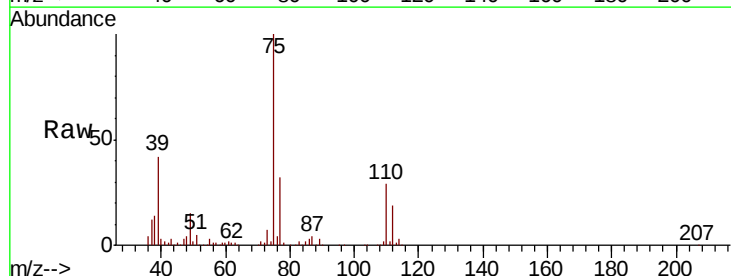
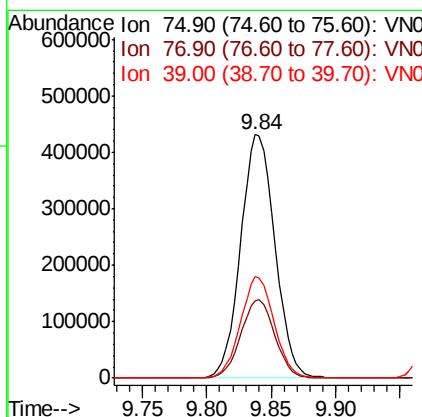
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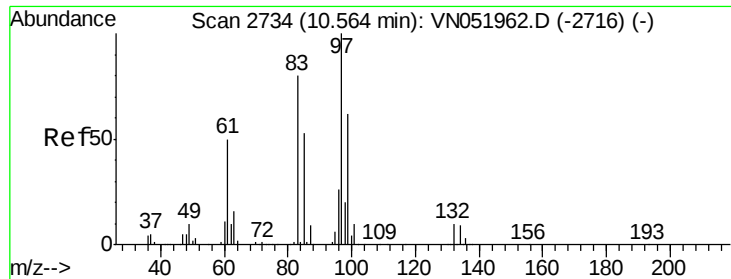
MMDadoda
10/29/2018 3:46:20 PM



#54
cis-1,3-Dichloropropene
Concen: 49.922 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.2	37.8
39	41.5	32.0	48.0





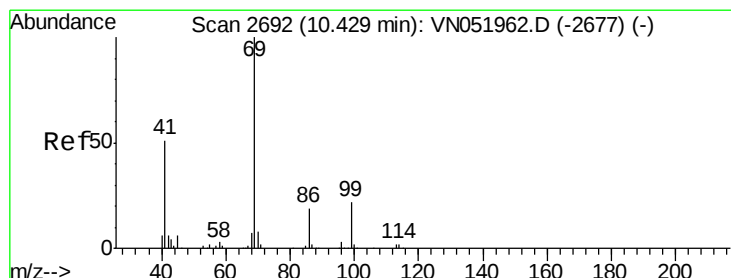
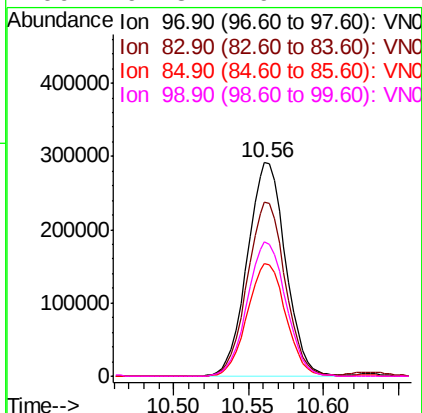
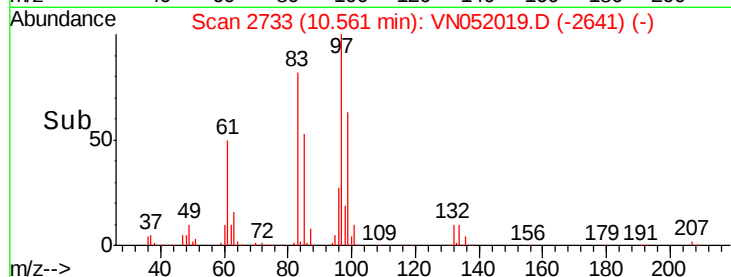
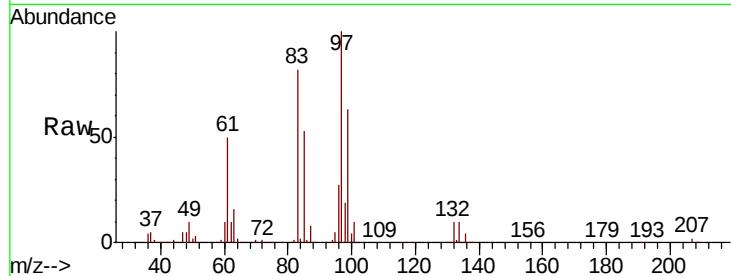
#55
 1,1,2-Trichloroethane
 Concen: 46.417 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	97	Resp	517896
Ion	Ratio	Lower	Upper
97	100		
83	81.6	64.0	96.0
85	52.8	42.4	63.6
99	62.8	49.4	74.2

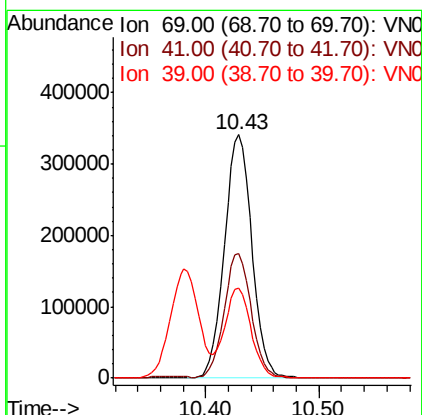
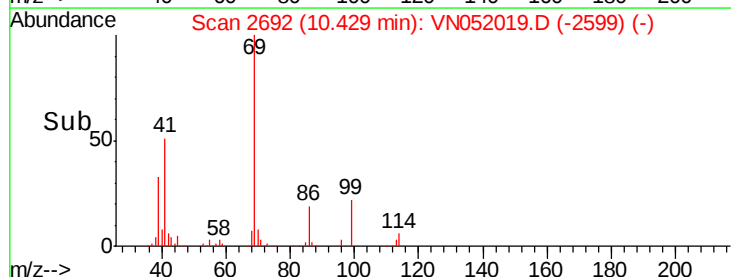
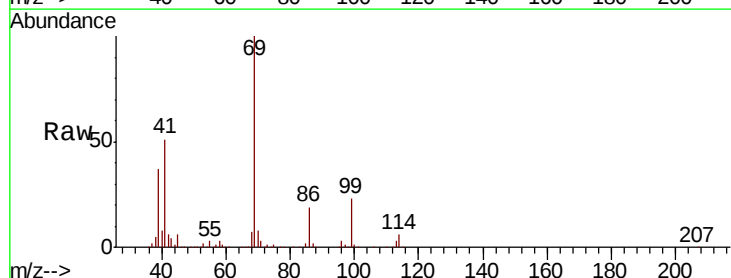
Manual Integrations
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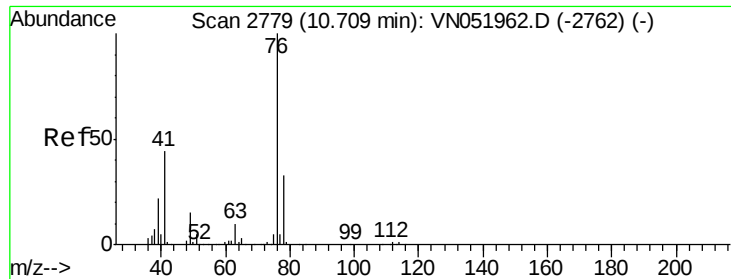
MMDadoda
 10/29/2018 3:46:20 PM



#56
 Ethyl methacrylate
 Concen: 48.133 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Tgt Ion	69	Resp	577288
Ion	Ratio	Lower	Upper
69	100		
41	50.1	40.7	61.1
39	35.2	29.3	43.9





#57

1,3-Dichloropropane

Concen: 46.662 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 790382

Ion Ratio Lower Upper

76 100

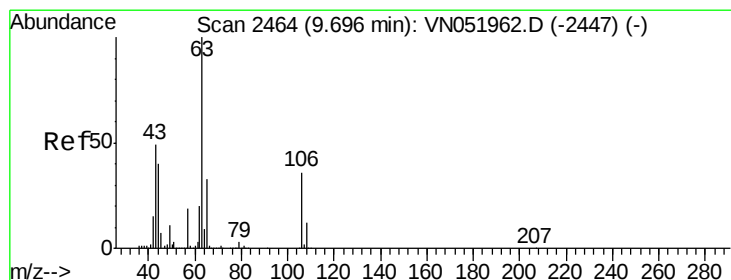
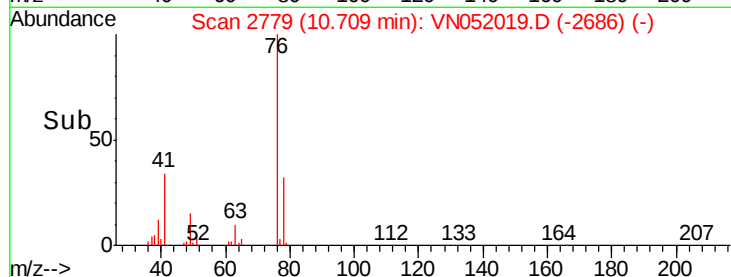
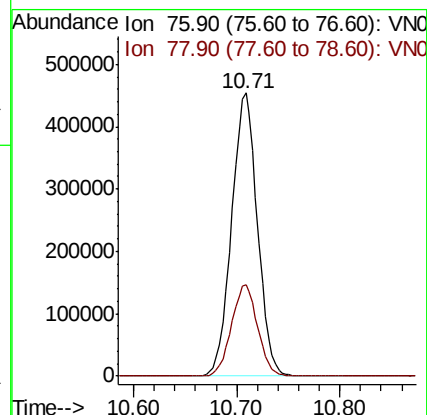
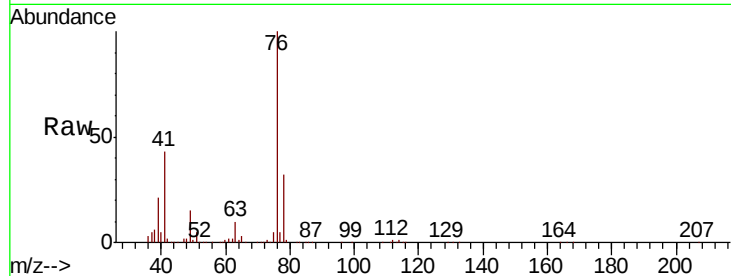
78 32.6 26.4 39.6

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 265.595 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN052019.D

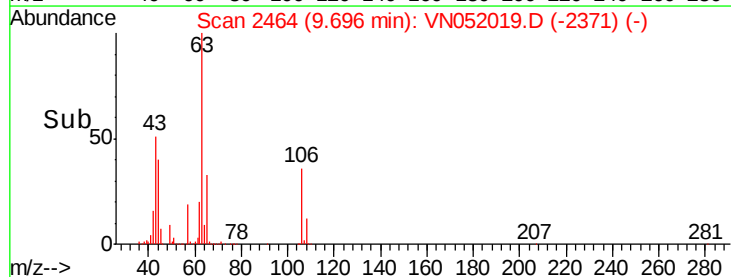
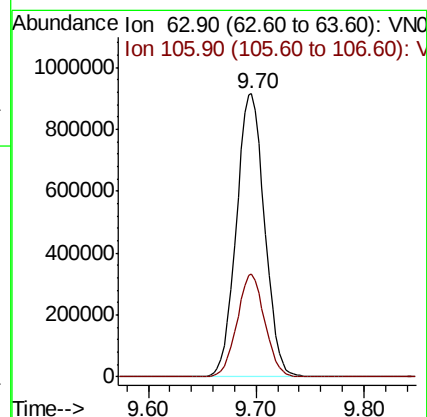
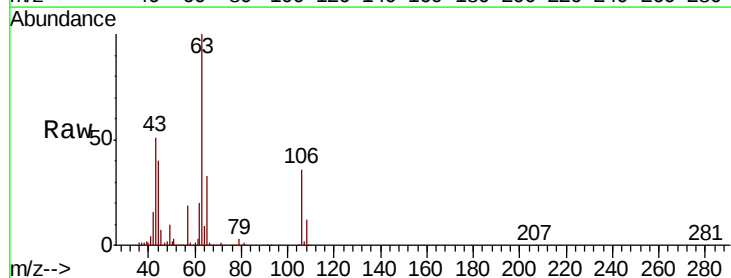
Acq: 26 Oct 2018 10:54

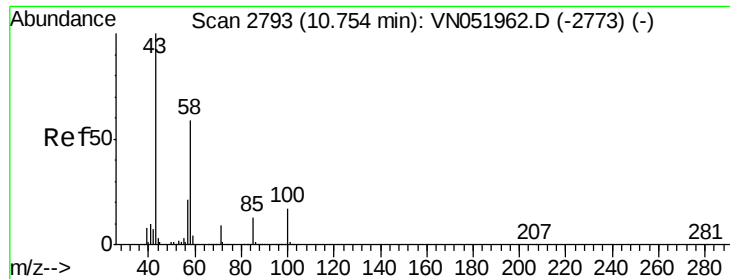
Tgt Ion: 63 Resp: 1666738

Ion Ratio Lower Upper

63 100

106 35.6 28.3 42.5





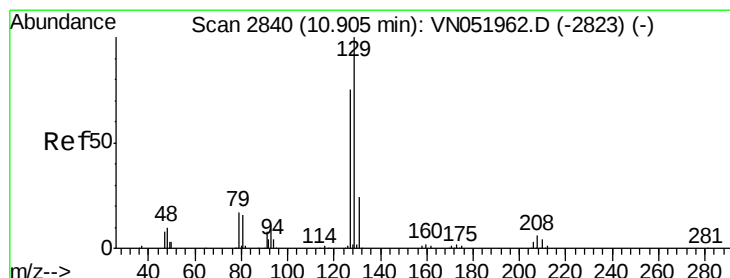
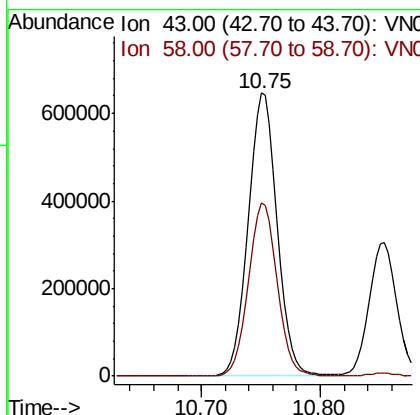
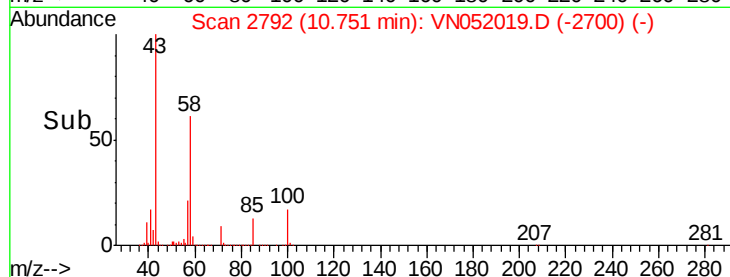
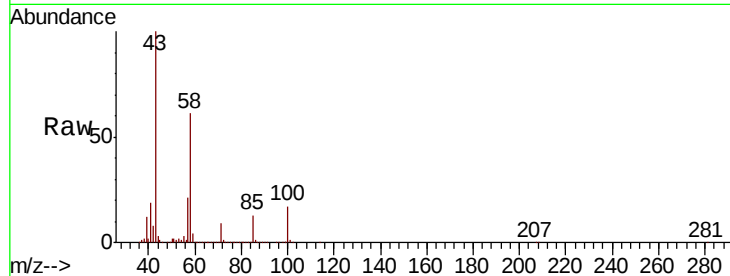
#59
2-Hexanone
Concen: 234.522 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1088719
Ion Ratio Lower Upper
43 100
58 60.9 29.9 89.8

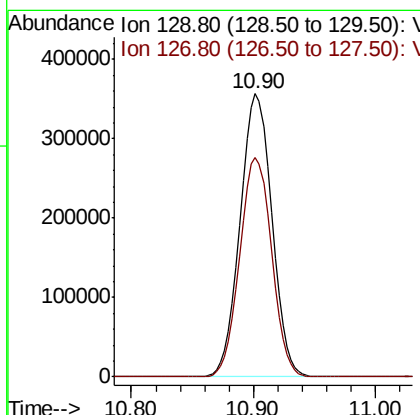
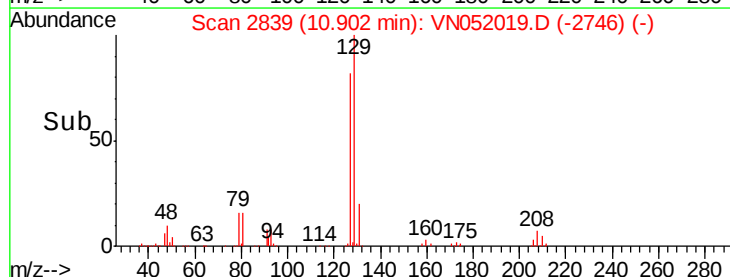
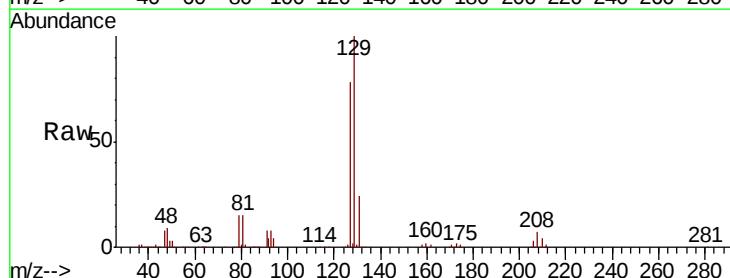
Manual Integrations
APPROVED

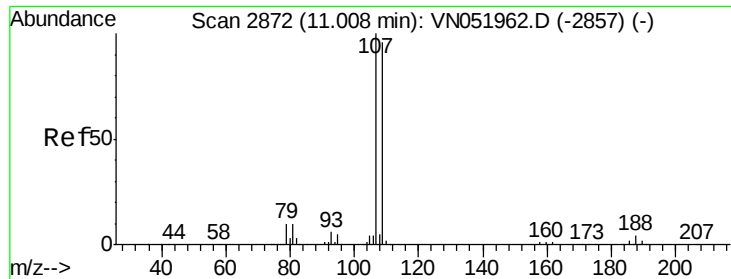
MMDadoda
10/29/2018 3:46:20 PM



#60
Dibromochloromethane
Concen: 45.342 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion: 129 Resp: 642634
Ion Ratio Lower Upper
129 100
127 77.7 38.0 114.0





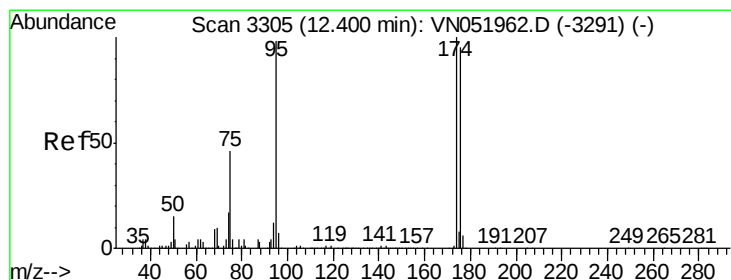
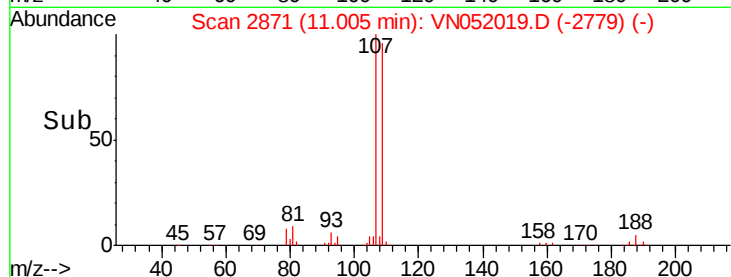
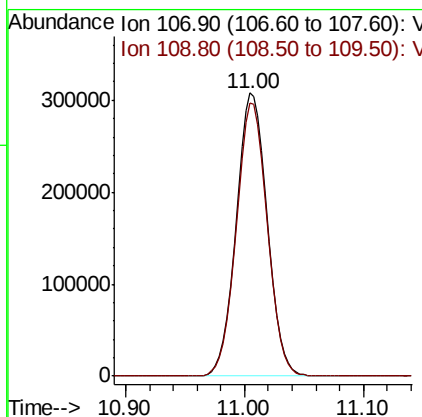
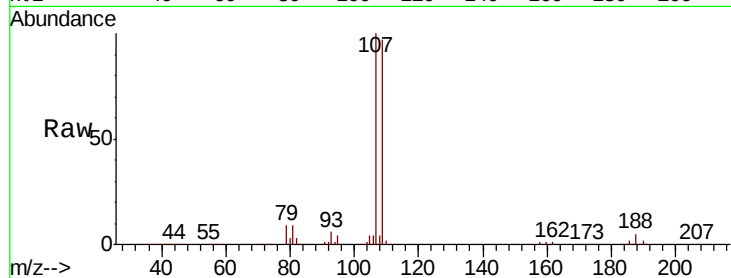
#61
 1,2-Dibromoethane
 Concen: 47.168 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.4	75.9	113.9

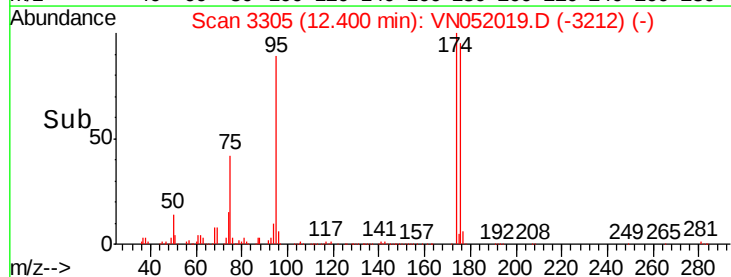
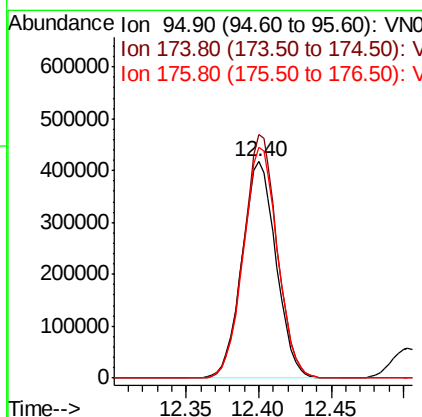
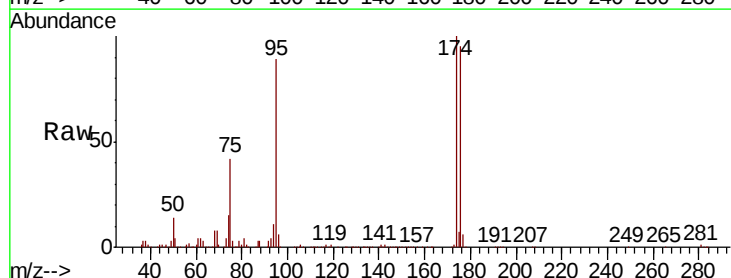
Manual Integrations
 APPROVED

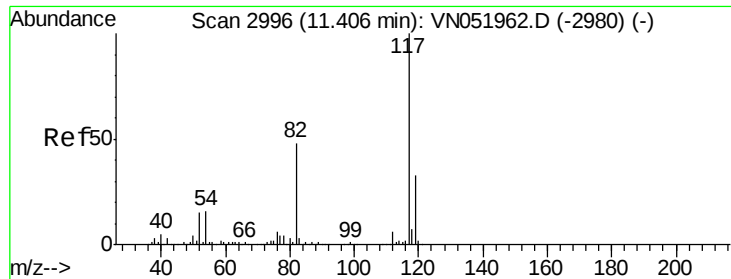
MMDadoda
 10/29/2018 3:46:20 PM



#62
 4-Bromofluorobenzene
 Concen: 47.168 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Lower	Upper
95	100		
174	110.9	0.0	206.0
176	106.9	0.0	198.0





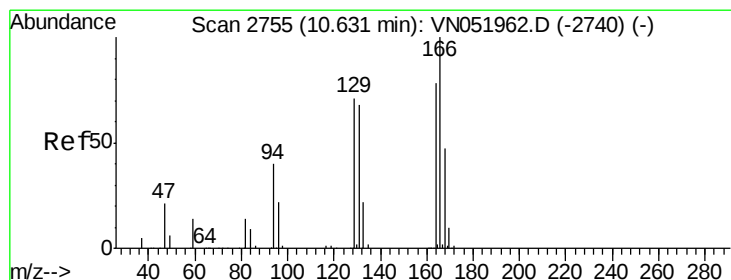
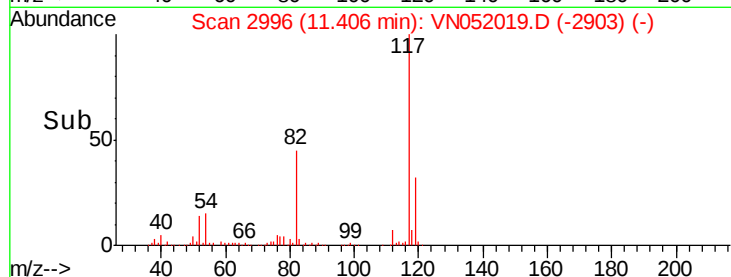
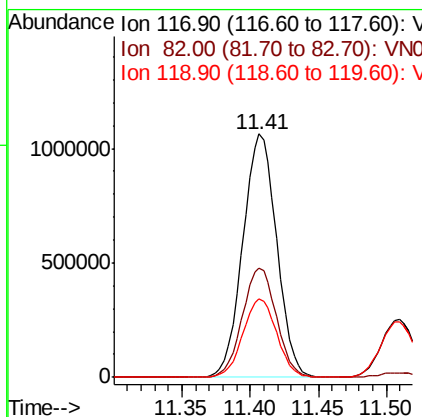
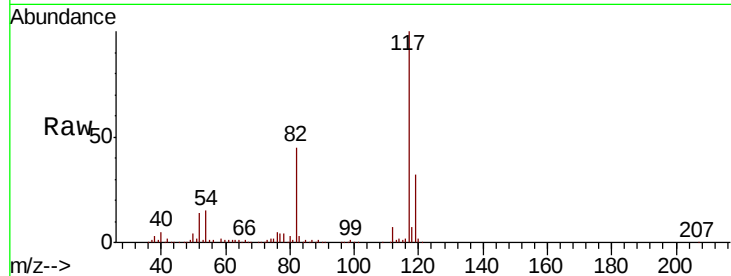
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	45.1	38.1	57.1
119	32.2	26.4	39.6

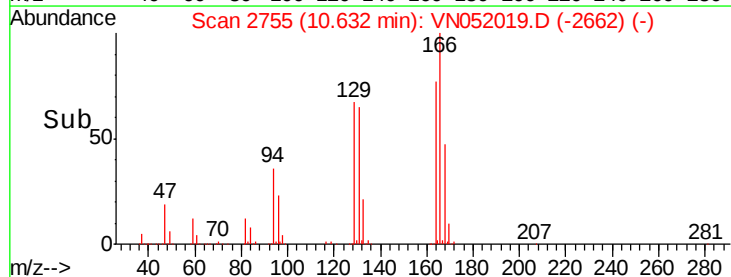
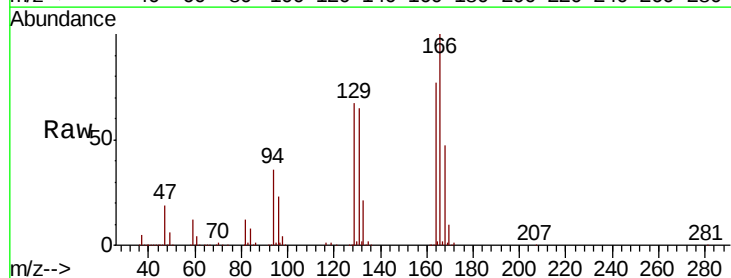
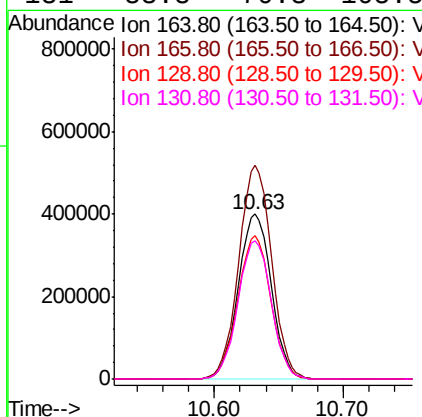
Manual Integrations
APPROVED

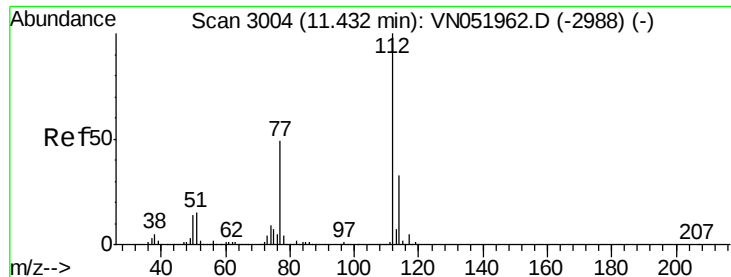
MMDadoda
10/29/2018 3:46:20 PM



#64
Tetrachloroethene
Concen: 50.881 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.4	103.1	154.7
129	86.7	73.6	110.4
131	83.8	70.3	105.5





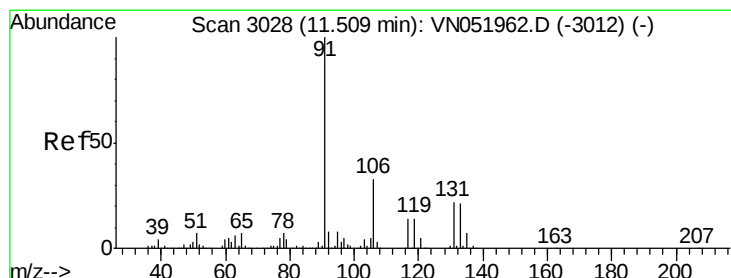
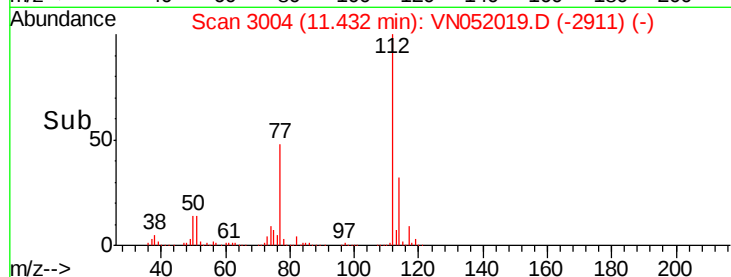
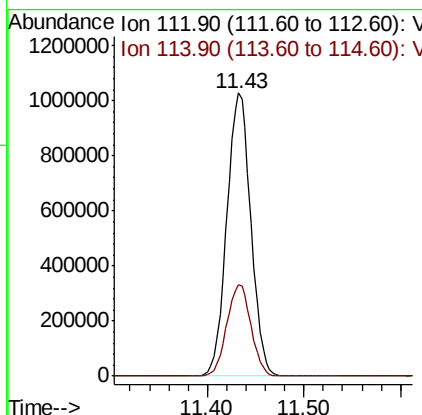
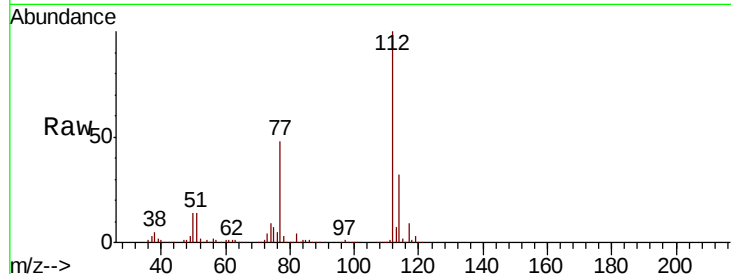
#65
Chlorobenzene
Concen: 47.874 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1770298
Ion Ratio Lower Upper
112 100
114 32.1 26.1 39.1

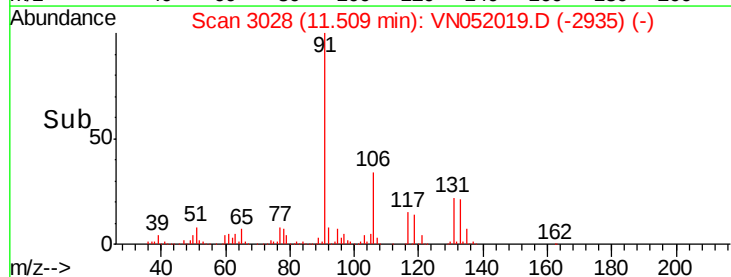
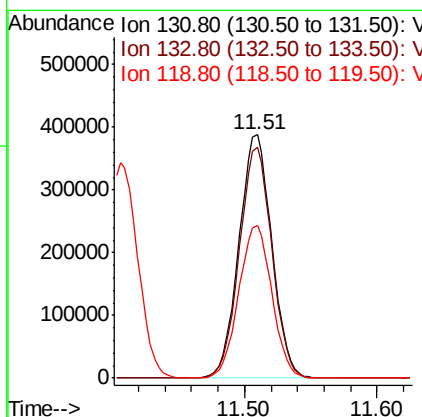
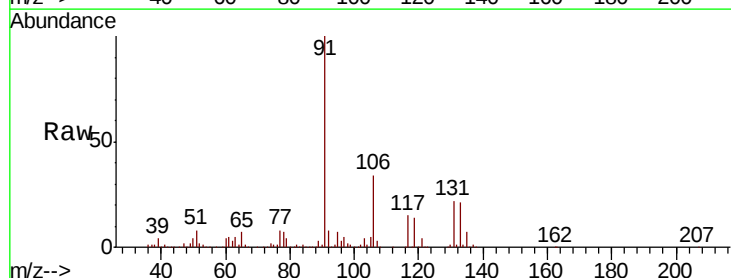
Manual Integrations
APPROVED

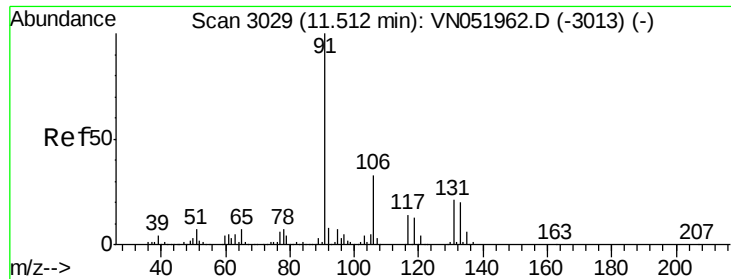
MMDadoda
10/29/2018 3:46:20 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.128 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion:131 Resp: 666265
Ion Ratio Lower Upper
131 100
133 94.4 47.8 143.3
119 63.3 32.0 96.2





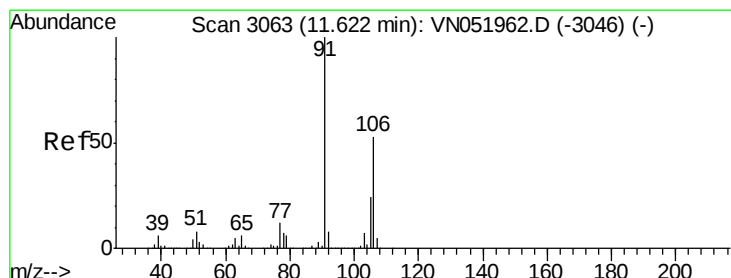
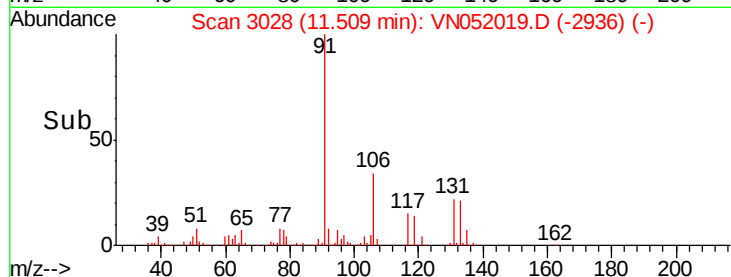
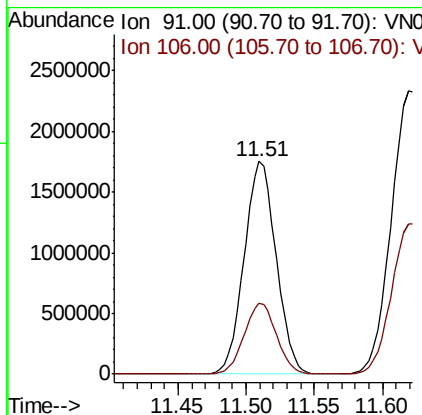
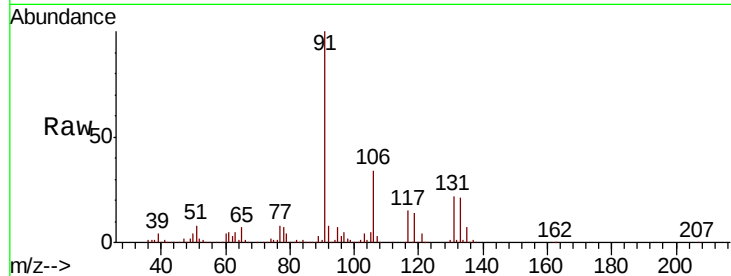
#67
Ethyl Benzene
Concen: 47.999 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 2853020
Ion Ratio Lower Upper
91 100
106 33.5 26.4 39.6

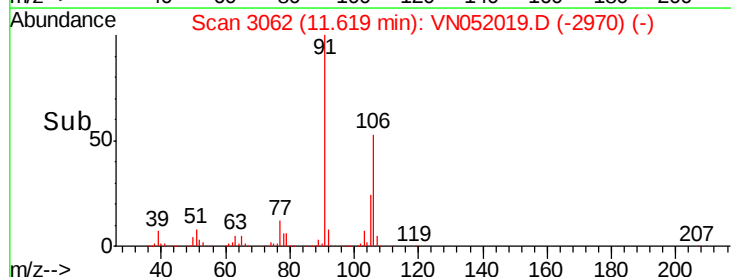
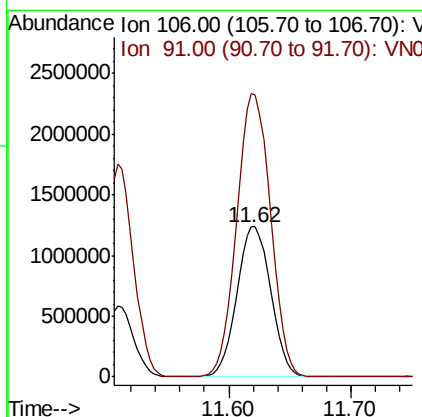
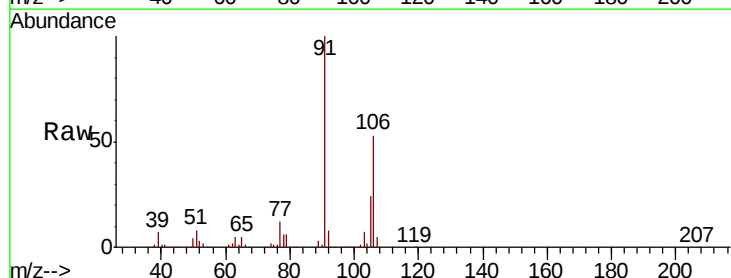
Manual Integrations
APPROVED

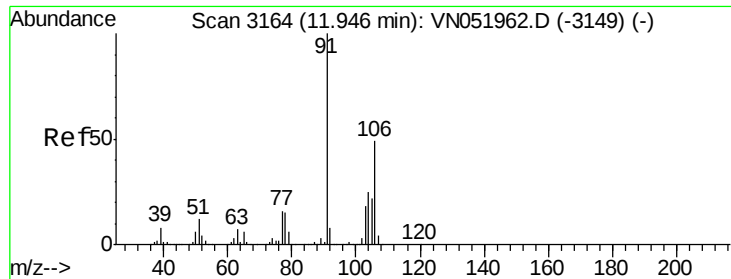
MMDadoda
10/29/2018 3:46:20 PM



#68
m/p-Xylenes
Concen: 99.648 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion: 106 Resp: 2366497
Ion Ratio Lower Upper
106 100
91 189.1 152.2 228.2





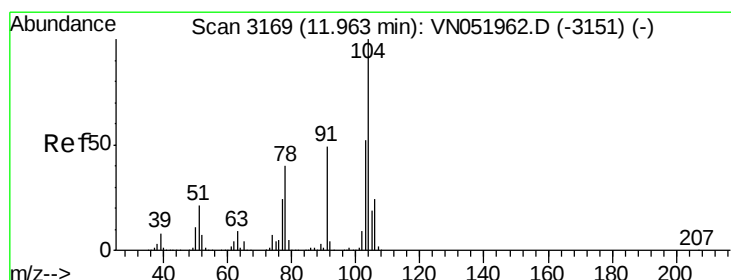
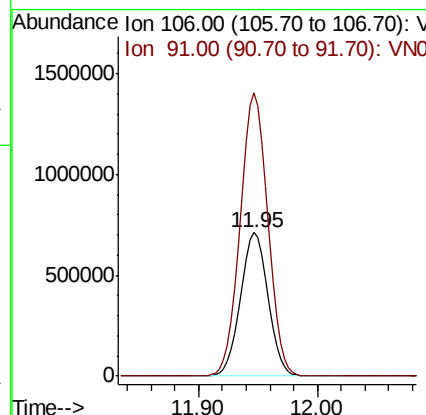
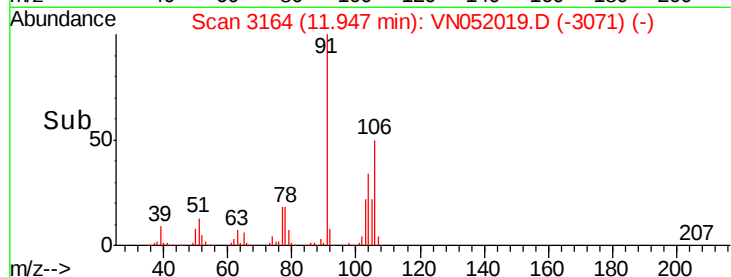
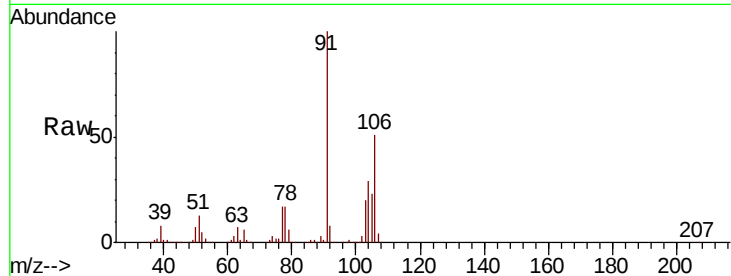
#69
o-Xylene
Concen: 49.430 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 1141652
Ion Ratio Lower Upper
106 100
91 198.1 101.0 303.0

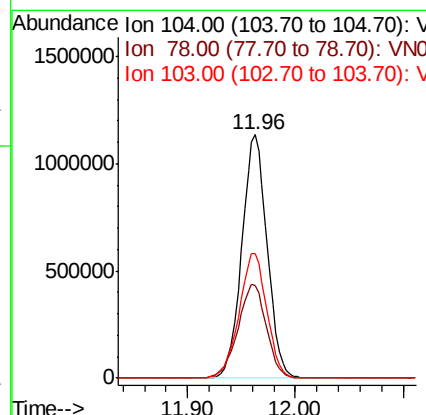
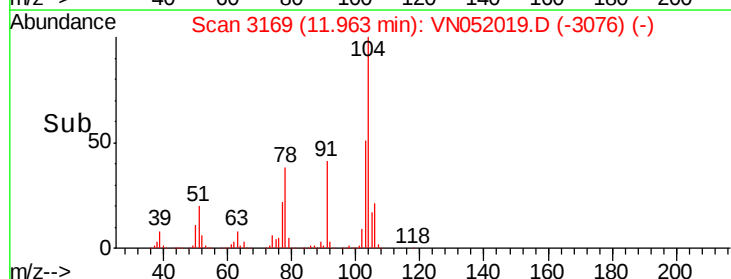
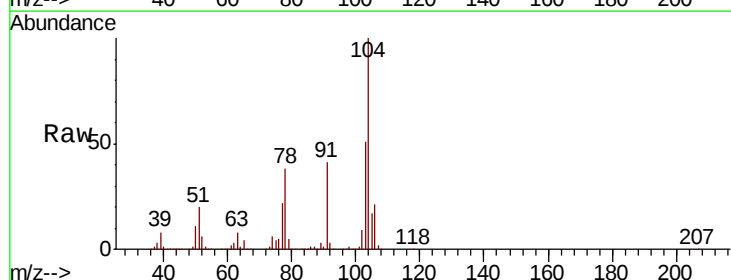
Manual Integrations
APPROVED

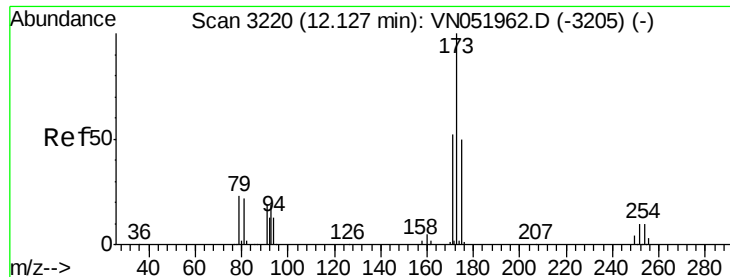
MMDadoda
10/29/2018 3:46:20 PM



#70
Styrene
Concen: 50.168 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion:104 Resp: 1851979
Ion Ratio Lower Upper
104 100
78 43.1 35.8 53.6
103 56.0 44.9 67.3





#71

Bromoform

Concen: 43.945 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Instrument :

MSVOA_N

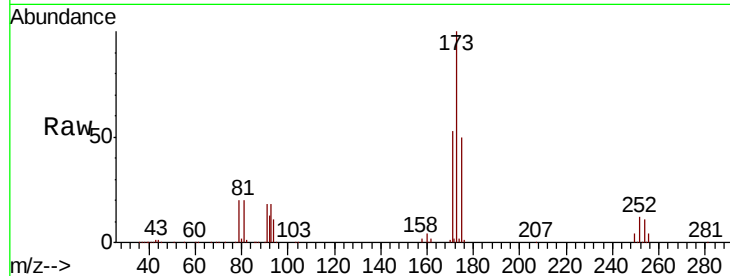
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.6	74.0
254	0.1	0.1	0.1

Manual Integrations
APPROVED

MMDadoda
10/29/2018 3:46:20 PM

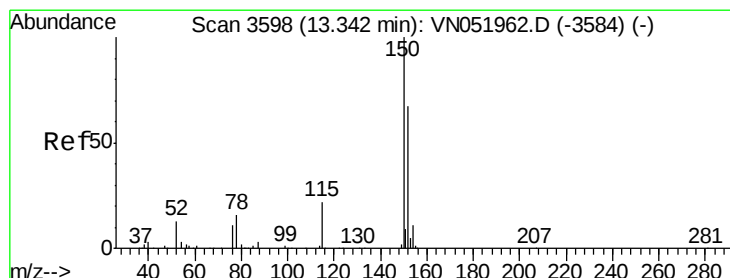
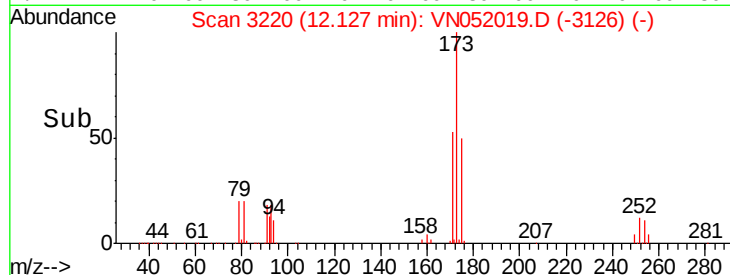
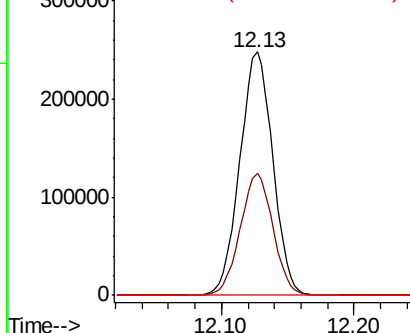


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

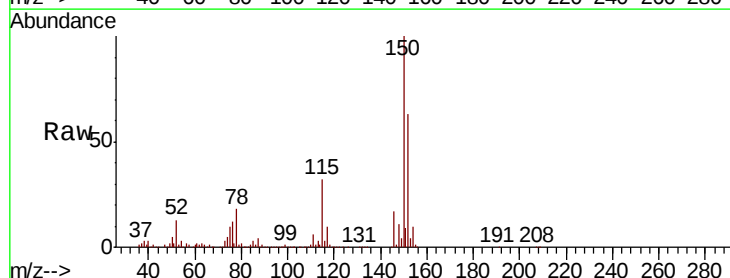
RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Lower	Upper
152	100		
115	50.0	25.8	77.3
150	171.4	0.0	344.4

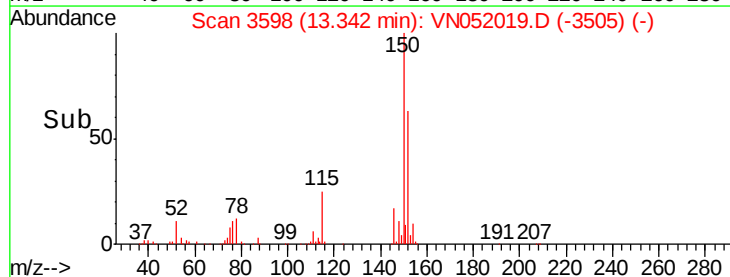
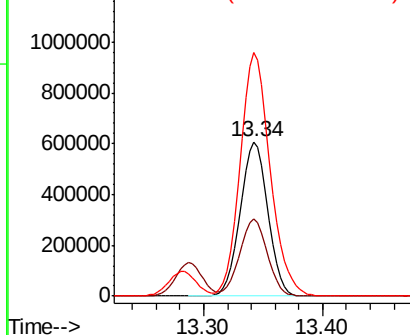


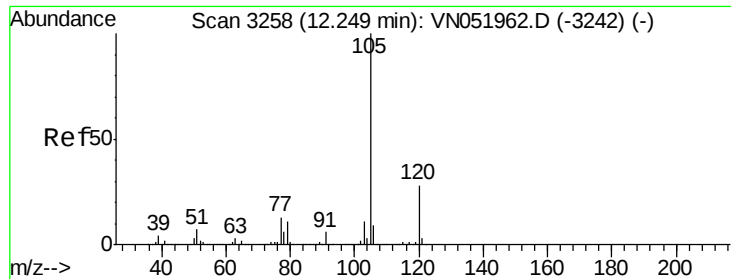
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





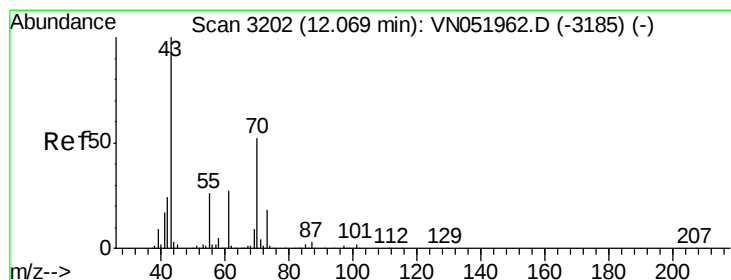
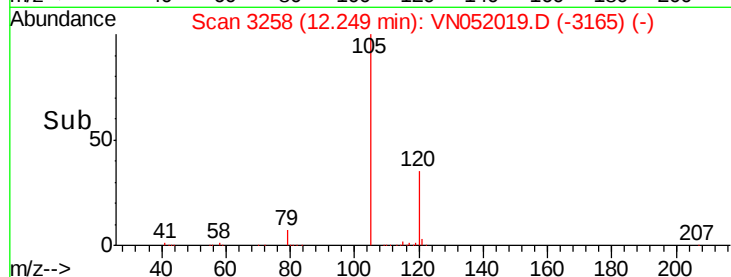
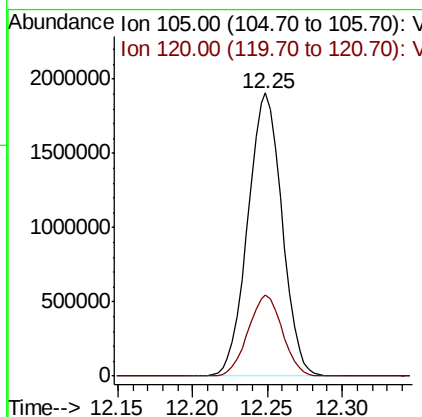
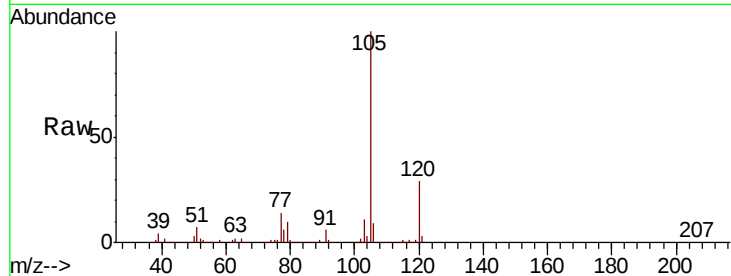
#73
Isopropylbenzene
Concen: 49.086 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 105 Resp: 3028814
Ion Ratio Lower Upper
105 100
120 28.7 14.0 41.9

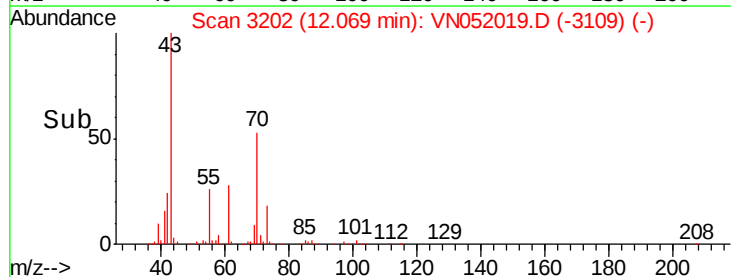
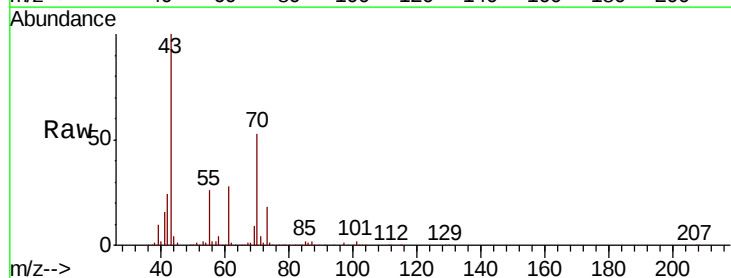
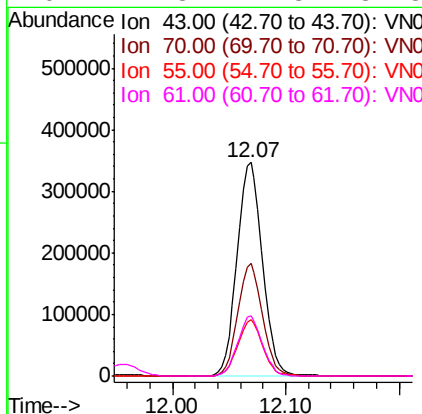
Manual Integrations
APPROVED

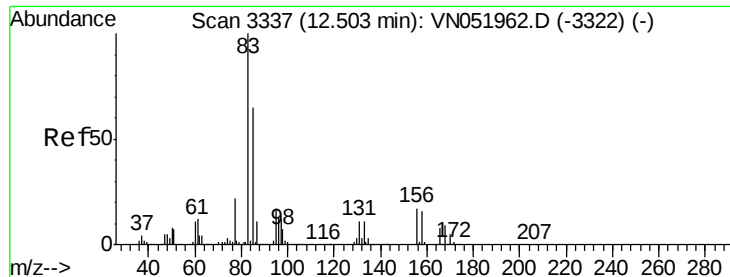
MMDadoda
10/29/2018 3:46:20 PM



#74
N-ethyl acetate
Concen: 44.564 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion: 43 Resp: 541244
Ion Ratio Lower Upper
43 100
70 51.6 41.3 61.9
55 26.0 21.2 31.8
61 27.3 21.8 32.8





#75

1,1,2,2-Tetrachloroethane

Concen: 43.575 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Instrument :

MSVOA_N

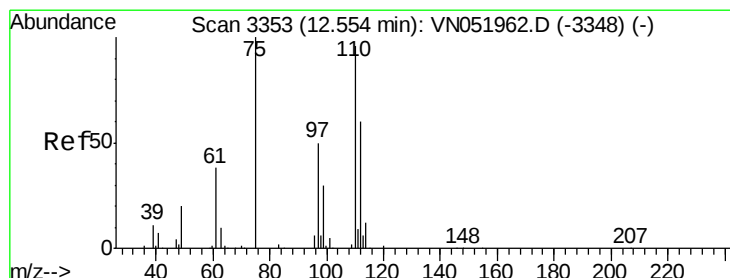
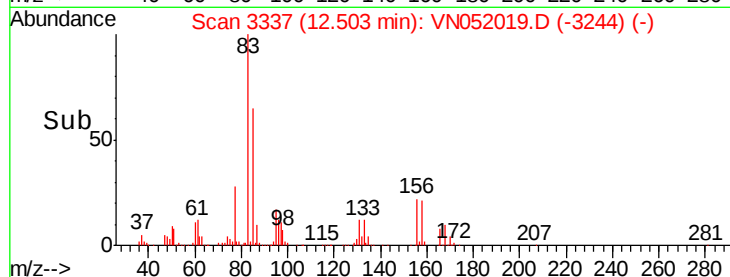
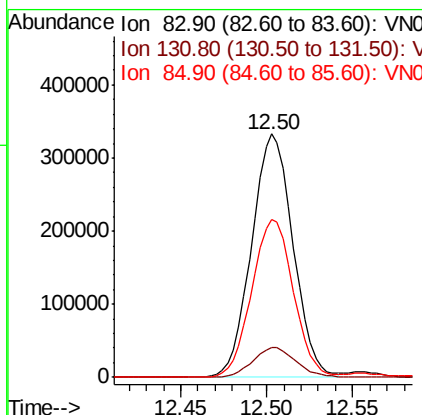
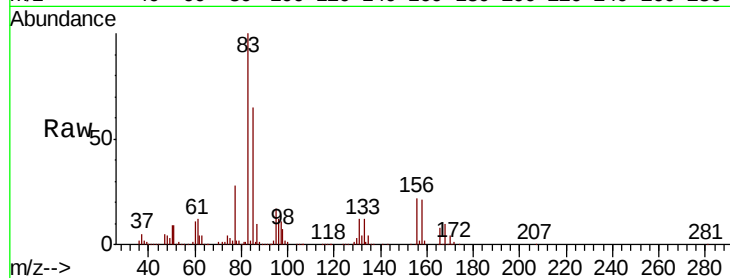
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	555567
Ion Ratio	Lower	Upper	
83	100		
131	12.7	6.2	18.6
85	65.2	32.7	98.1

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#76

1,2,3-Trichloropropane

Concen: 46.735 ug/l m

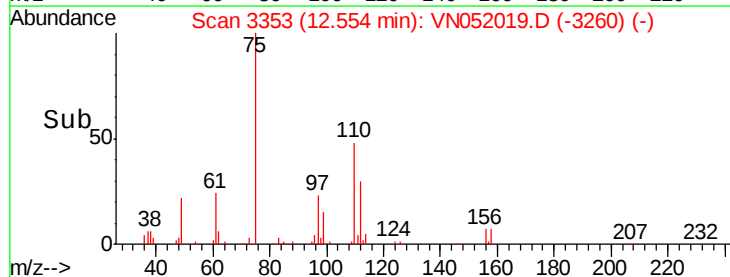
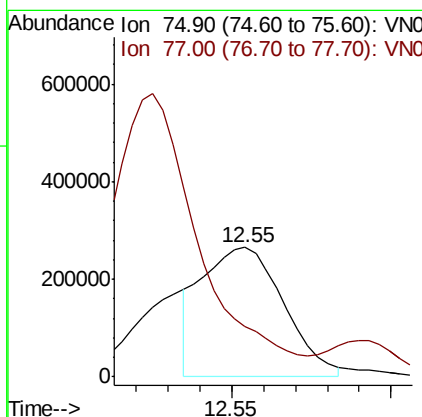
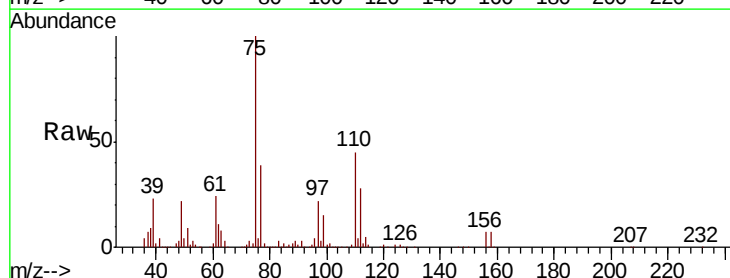
RT: 12.55 min Scan# 3353

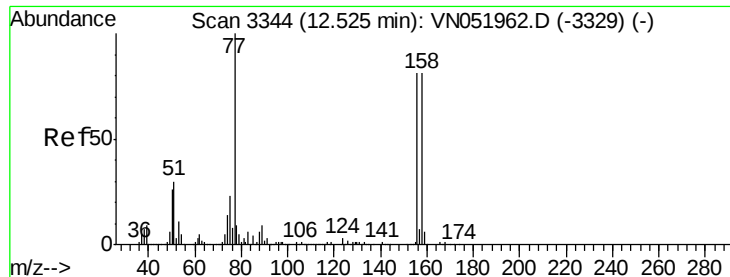
Delta R.T. 0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Tgt Ion:	75	Resp:	469683
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





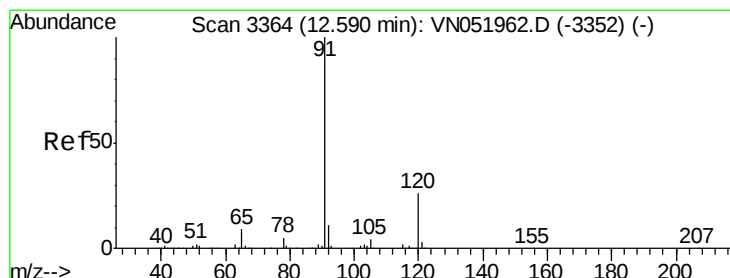
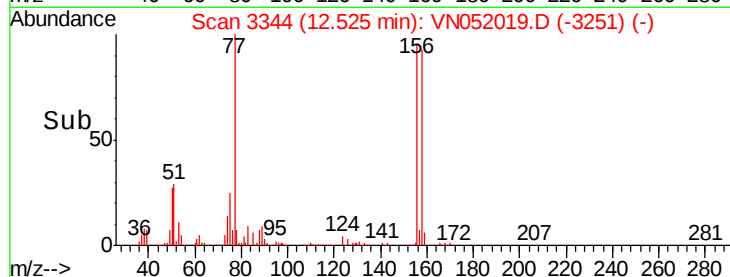
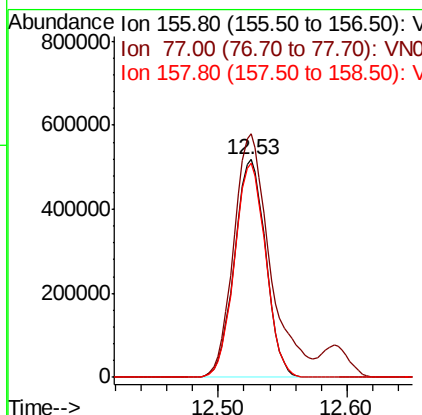
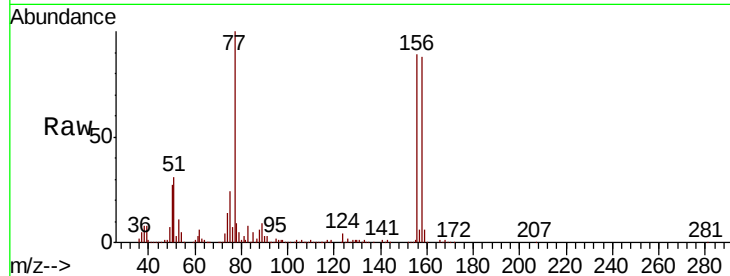
#77
Bromobenzene
Concen: 51.277 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	130.0	71.1	213.3
158	98.2	49.3	147.8

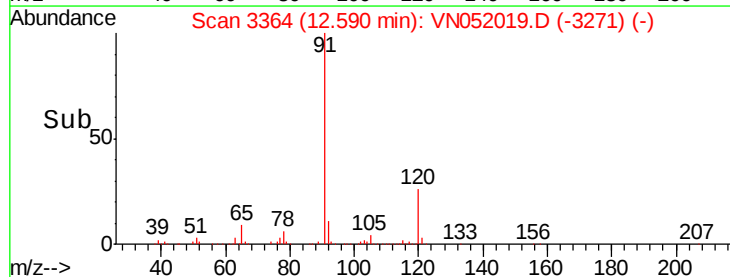
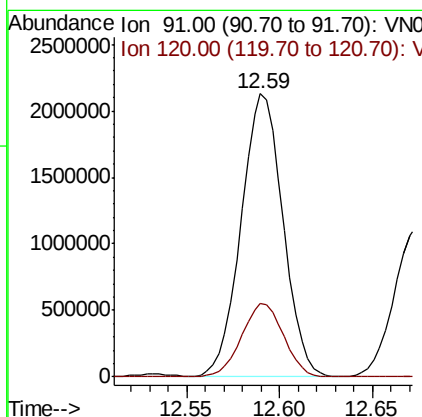
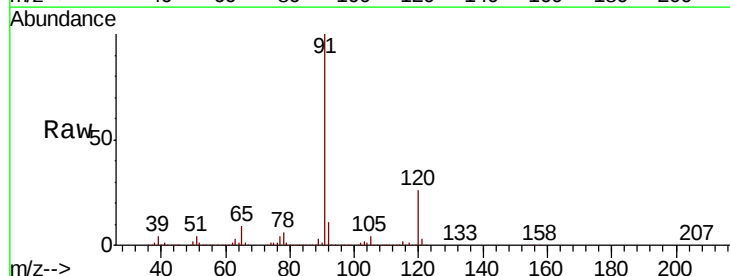
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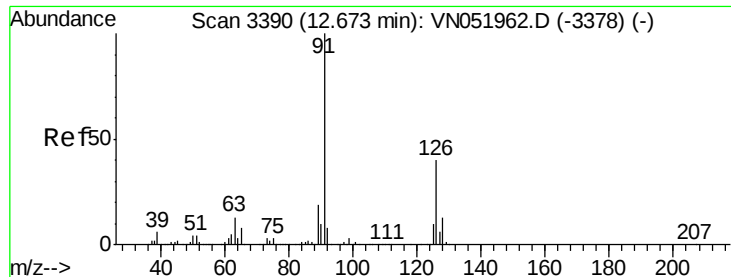
MMDadoda
10/29/2018 3:46:20 PM



#78
n-propylbenzene
Concen: 50.118 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Lower	Upper
91	100		
120	26.0	13.1	39.3





#79

2-Chlorotoluene

Concen: 48.471 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1878859

Ion Ratio Lower Upper

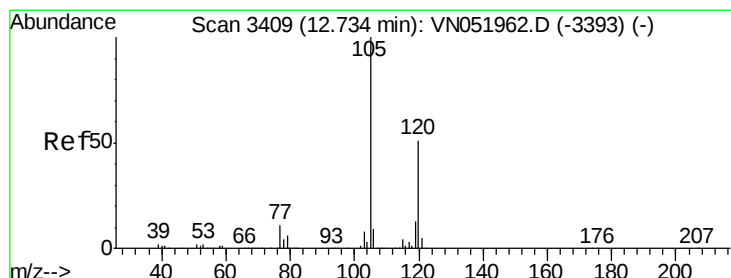
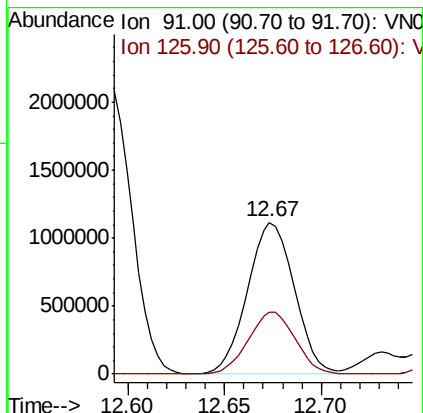
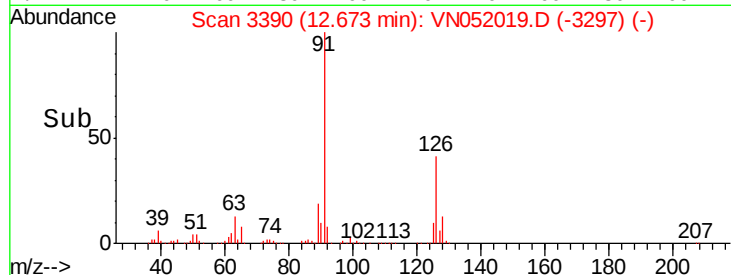
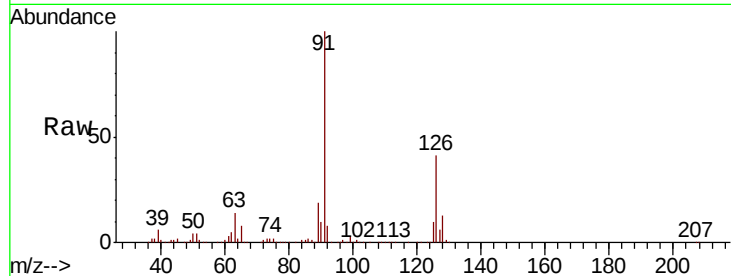
91 100

126 40.9 20.1 60.3

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 50.443 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052019.D

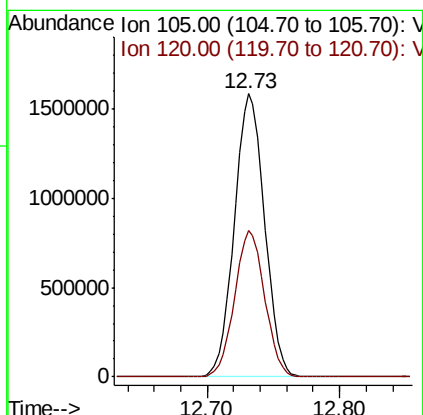
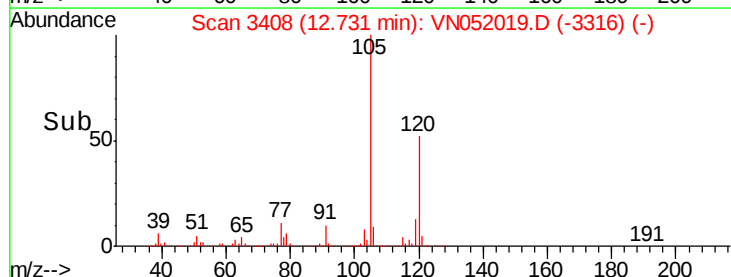
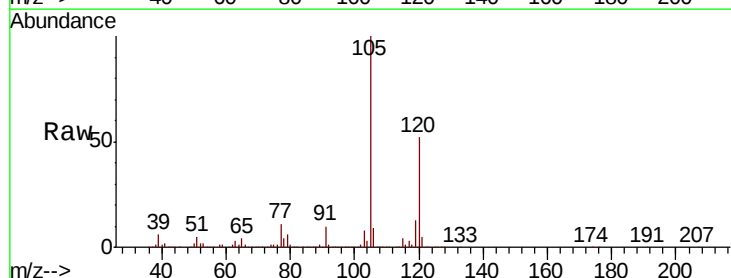
Acq: 26 Oct 2018 10:54

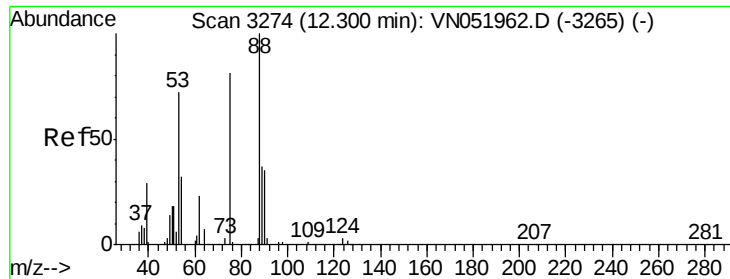
Tgt Ion: 105 Resp: 2497178

Ion Ratio Lower Upper

105 100

120 51.4 25.7 77.1





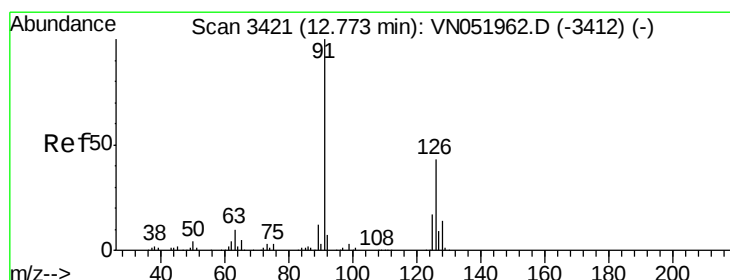
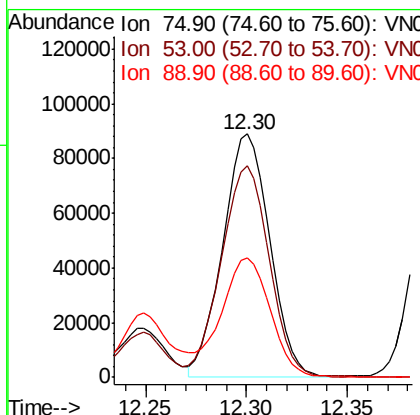
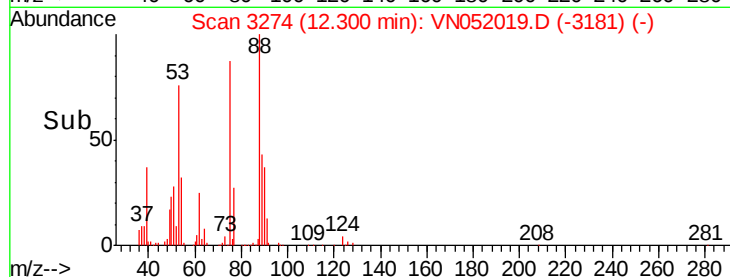
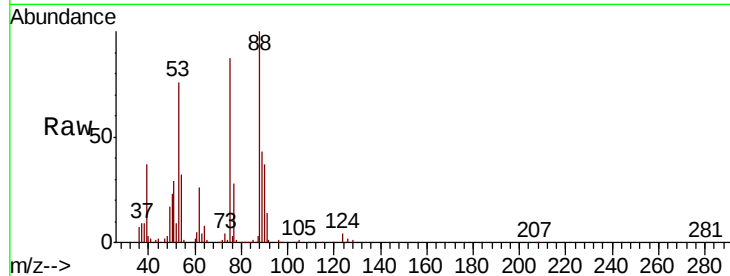
#81
trans-1,4-Dichloro-2-butene
Concen: 46.822 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	88.9	73.5	110.3
89	50.7	41.6	62.4

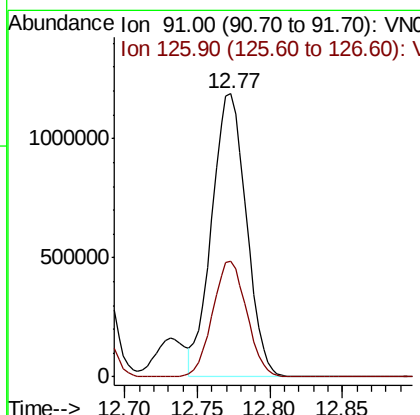
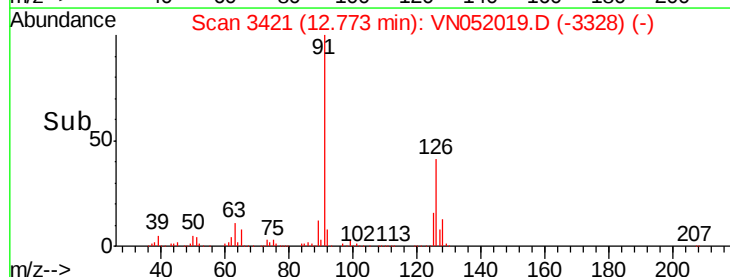
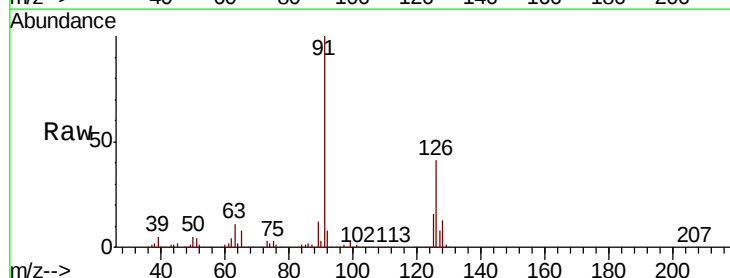
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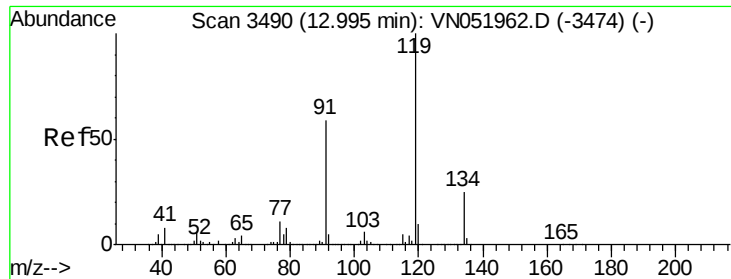
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#82
4-Chlorotoluene
Concen: 48.764 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Lower	Upper
91	100		
126	40.3	19.7	59.0





#83

tert-Butylbenzene

Concen: 49.006 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:119 Resp: 2294580

Ion Ratio Lower Upper

119 100

91 57.1 28.8 86.4

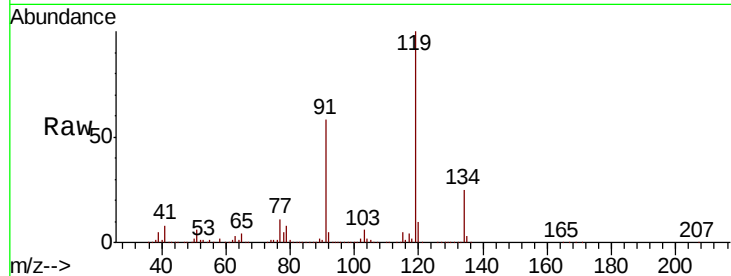
134 25.5 13.4 40.1

Manual Integrations

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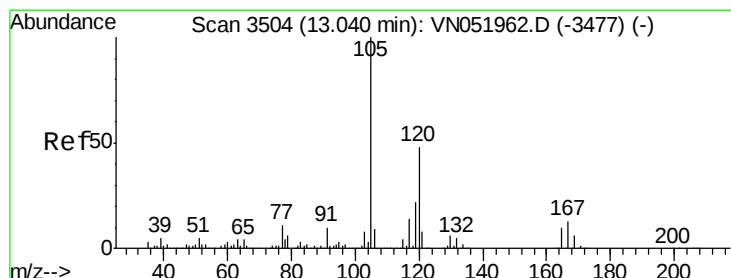
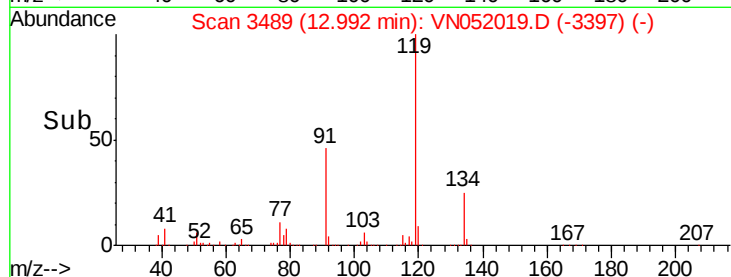
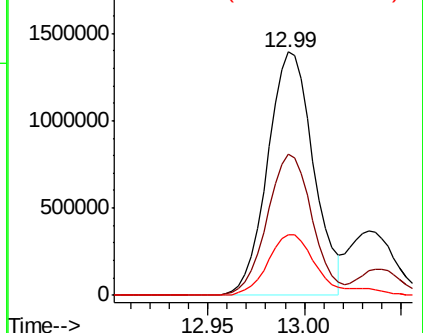
10/29/2018 3:46:20 PM



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 49.340 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN052019.D

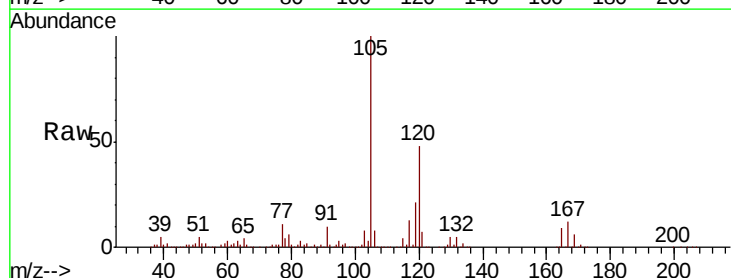
Acq: 26 Oct 2018 10:54

Tgt Ion:105 Resp: 2519512

Ion Ratio Lower Upper

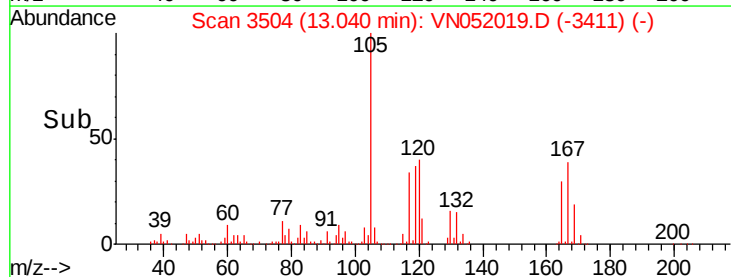
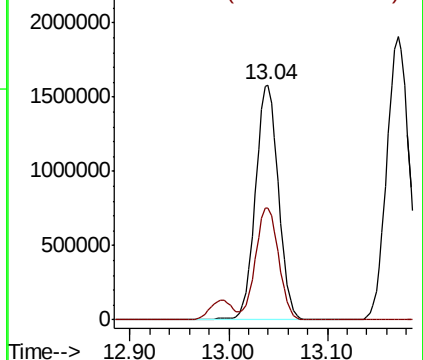
105 100

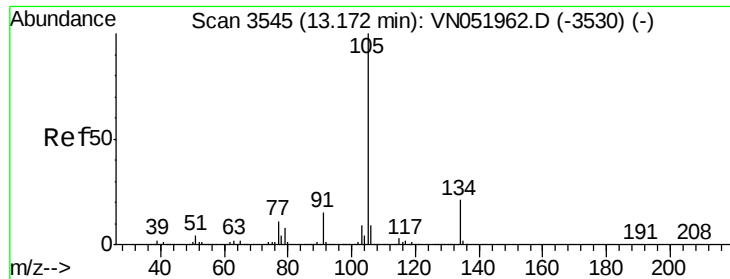
120 48.2 23.8 71.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 49.188 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 3008001

Ion Ratio Lower Upper

105 100

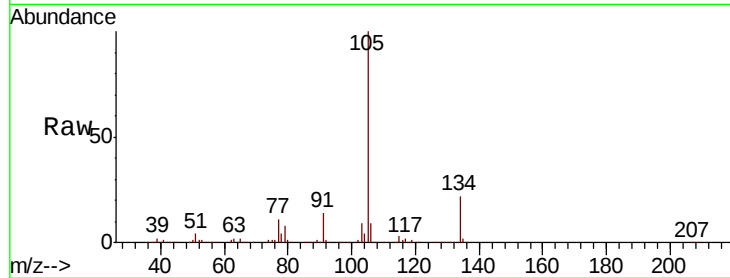
134 22.1 10.9 32.9

Manual Integrations

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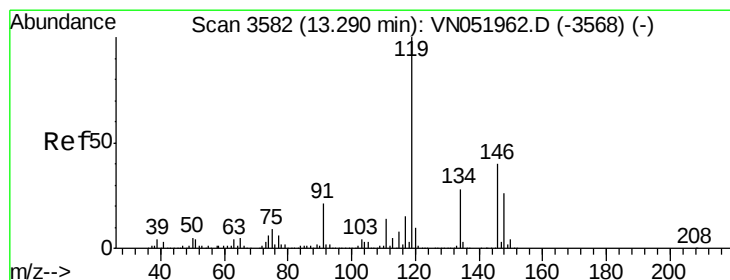
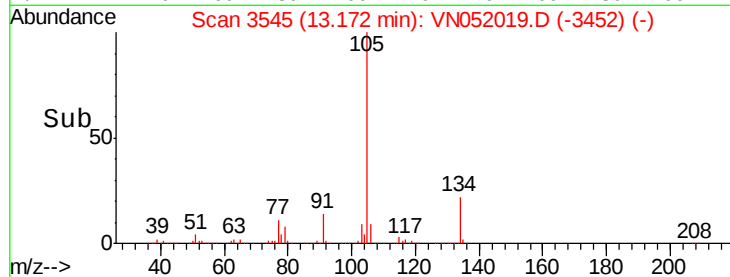
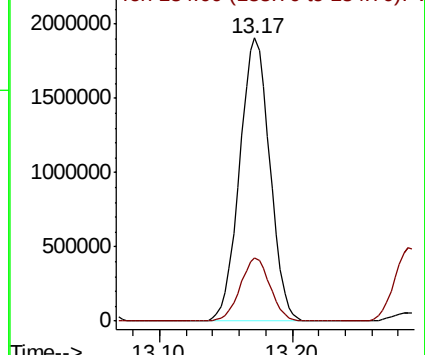
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 50.374 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN052019.D

Acq: 26 Oct 2018 10:54

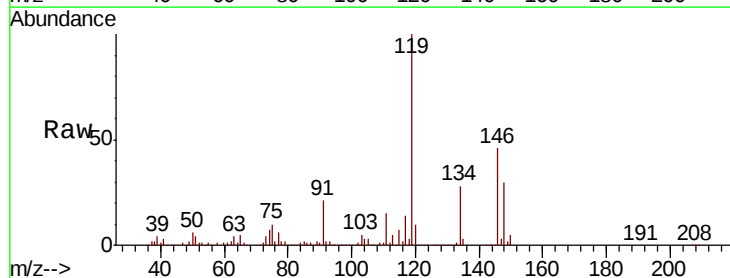
Tgt Ion:119 Resp: 2773401

Ion Ratio Lower Upper

119 100

134 27.5 13.9 41.7

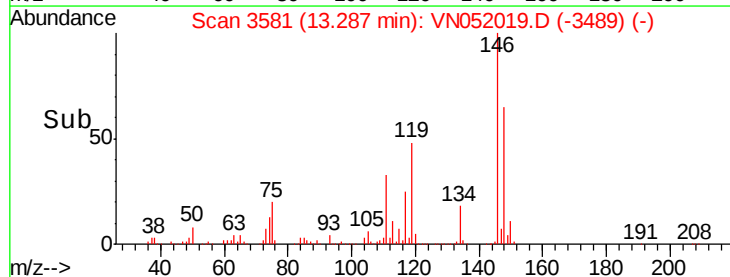
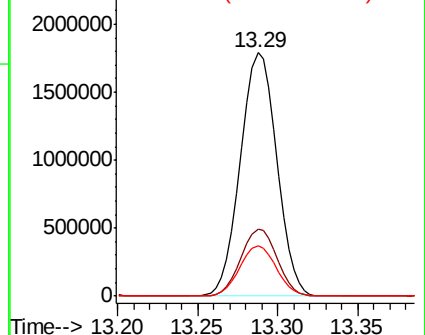
91 20.7 10.6 31.8

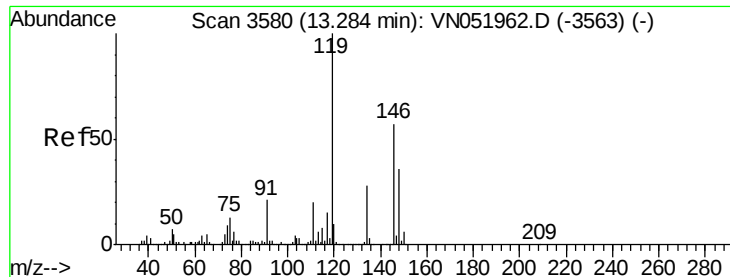


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





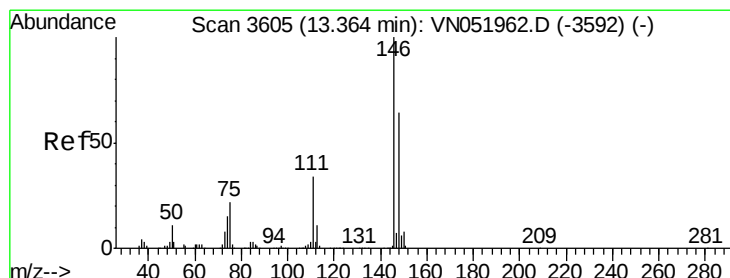
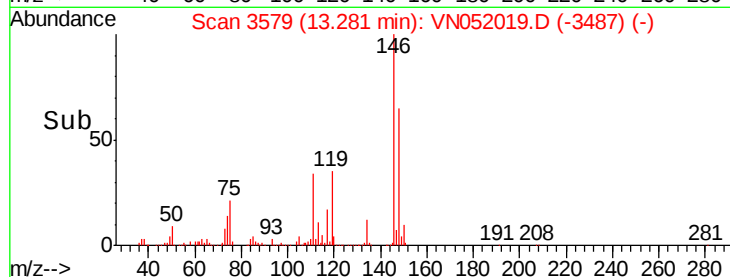
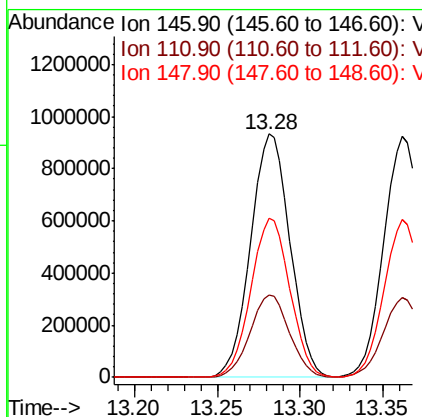
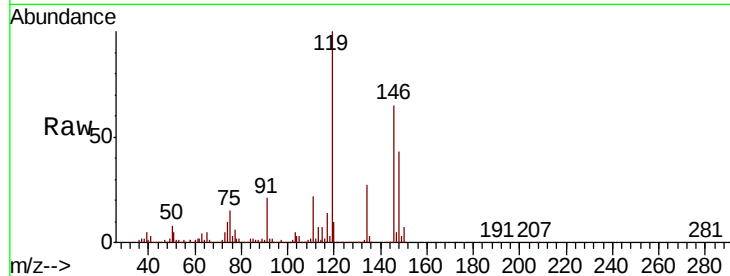
#87
 1,3-Dichlorobenzene
 Concen: 49.093 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	33.7	17.6	52.8
148	64.4	32.0	96.0

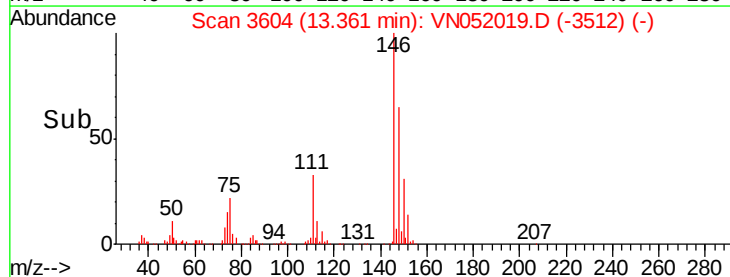
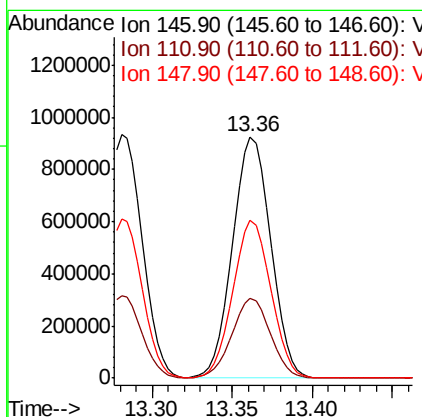
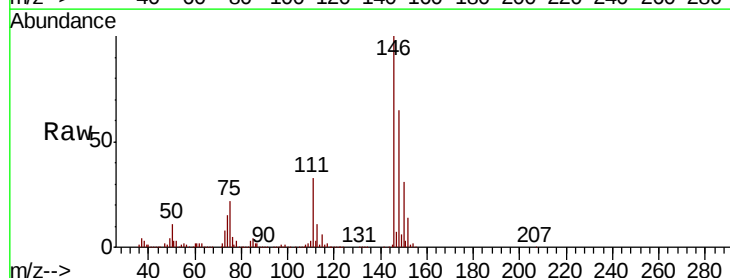
Manual Integrations
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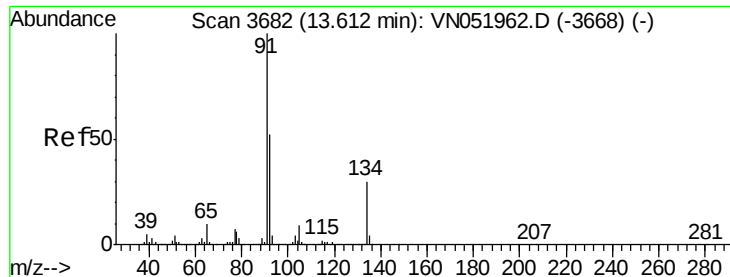
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 10/29/2018 3:46:20 PM



#88
 1,4-Dichlorobenzene
 Concen: 48.611 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.2	17.3	51.7
148	64.9	32.1	96.3





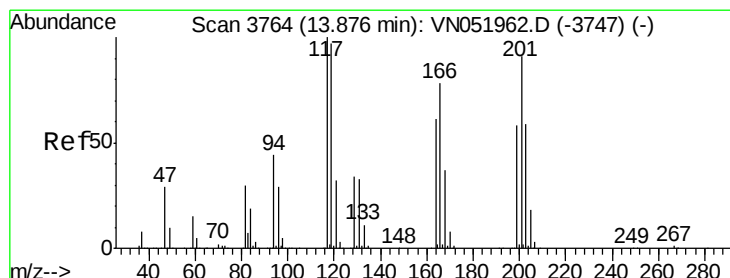
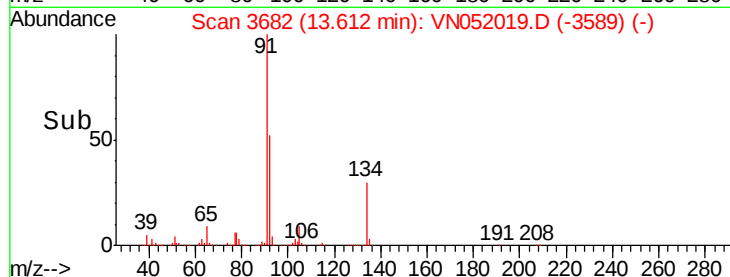
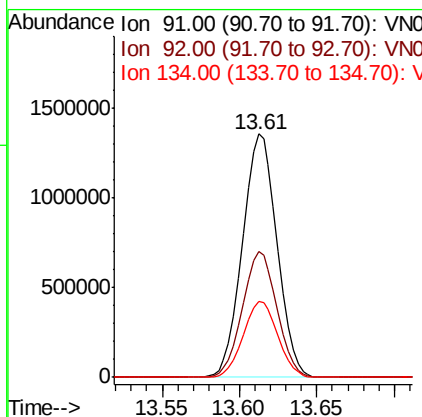
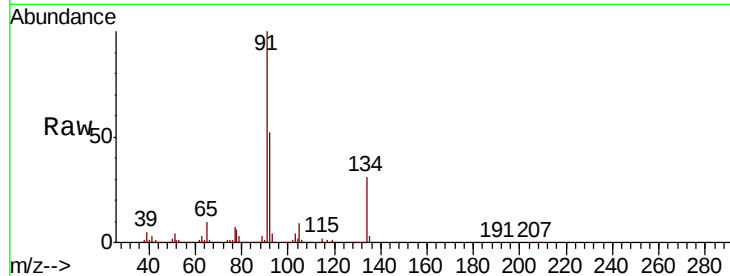
#89
n-Butylbenzene
Concen: 48.018 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.6	25.9	77.8
134	31.3	15.2	45.6

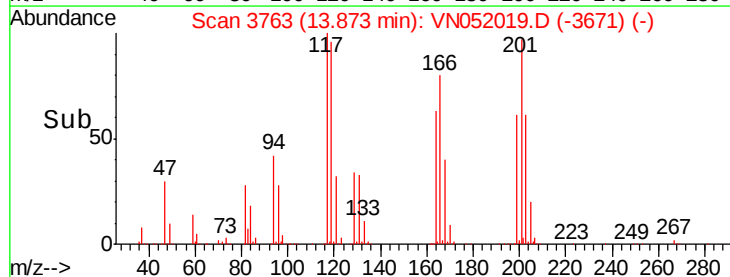
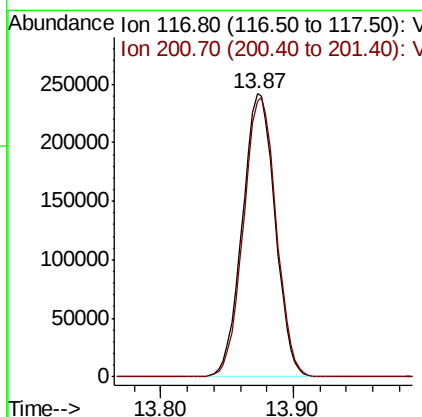
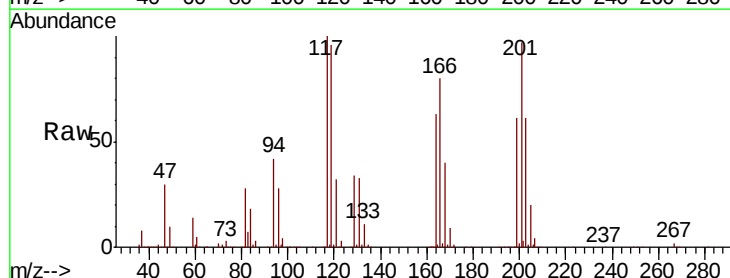
Manual Integrations
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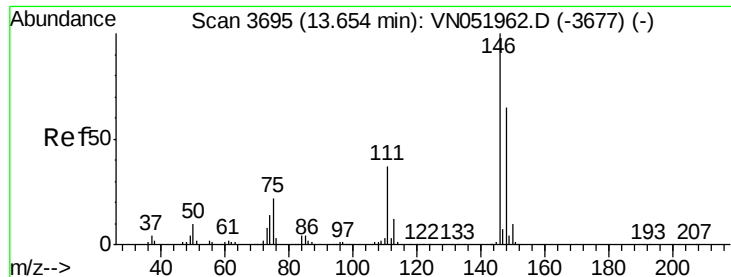
MMDadoda
10/29/2018 3:46:20 PM



#90
Hexachloroethane
Concen: 50.628 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Lower	Upper
117	100		
201	98.2	45.6	136.9





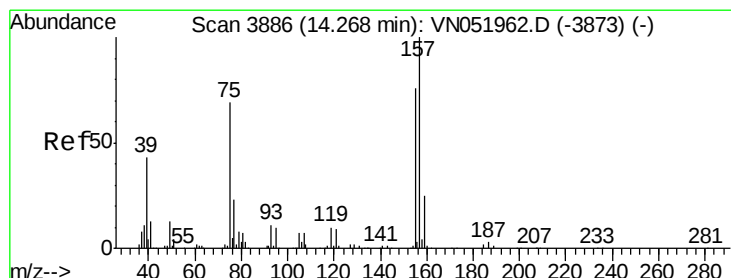
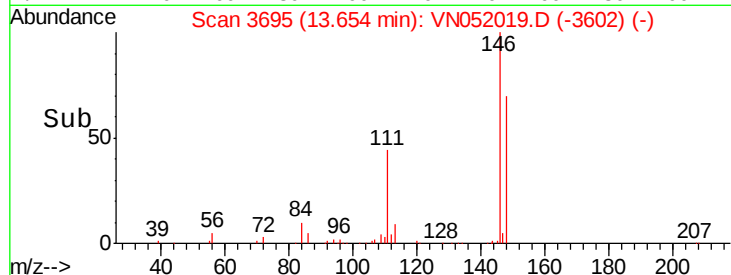
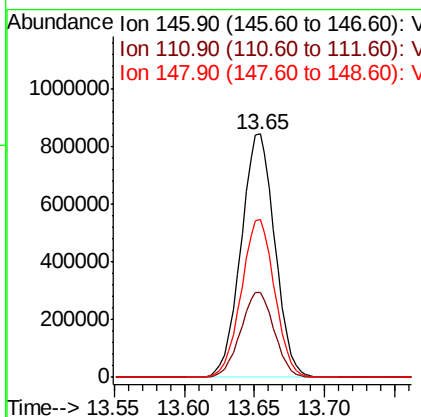
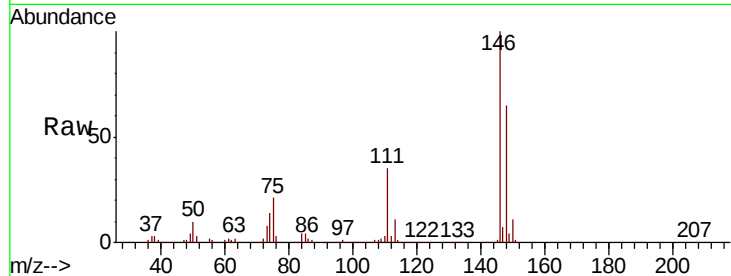
#91
 1,2-Dichlorobenzene
 Concen: 46.499 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.7	18.3	54.9
148	64.2	32.4	97.0

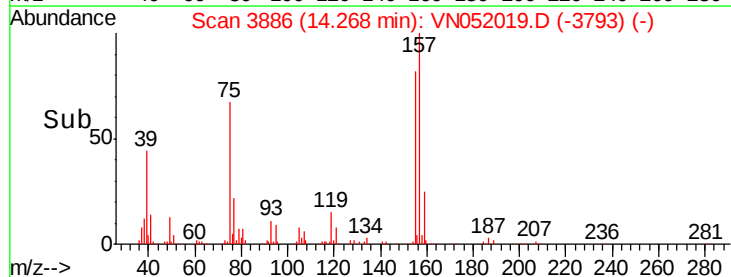
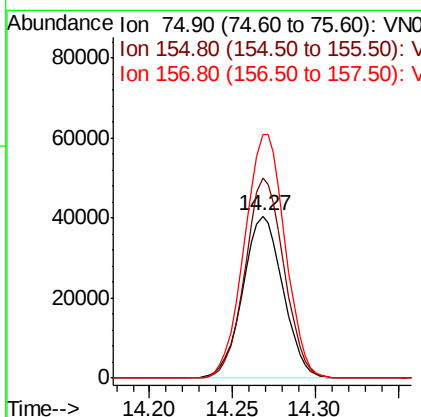
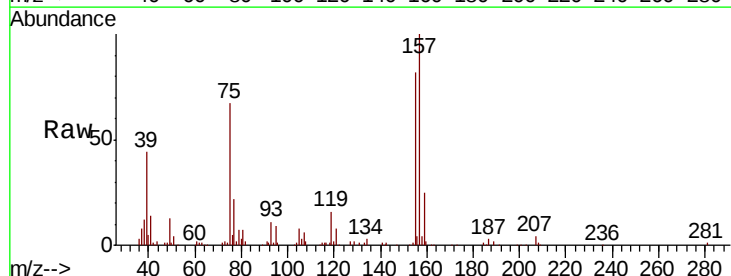
Manual Integrations
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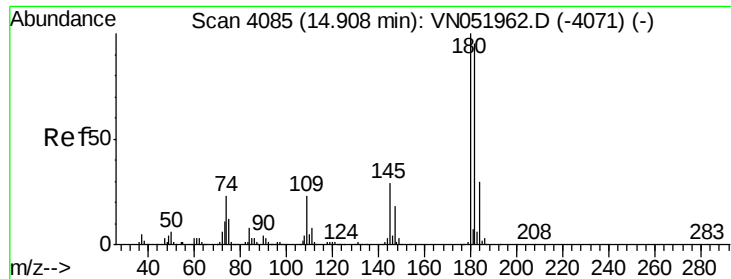
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 34.780 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Lower	Upper
75	100		
155	119.7	56.0	167.9
157	152.1	73.9	221.6





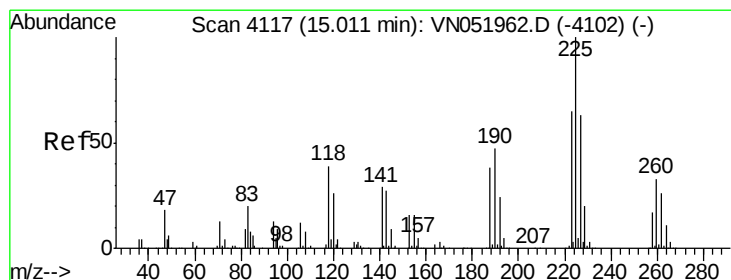
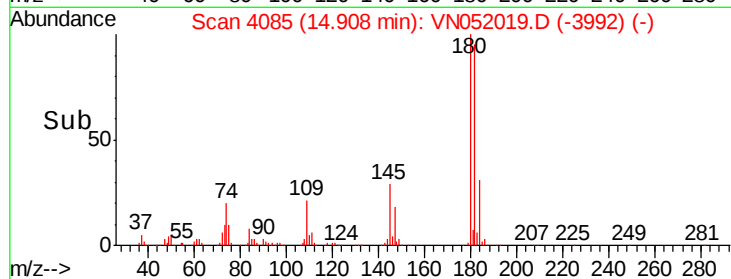
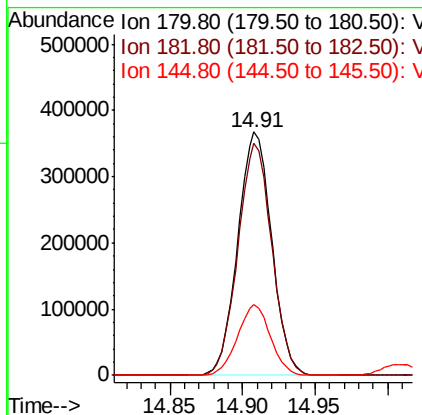
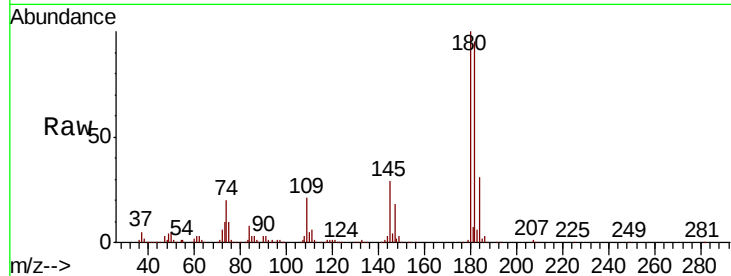
#93
 1,2,4-Trichlorobenzene
 Concen: 33.263 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	597013		
182	95.3	47.8	143.4	
145	28.3	14.5	43.5	

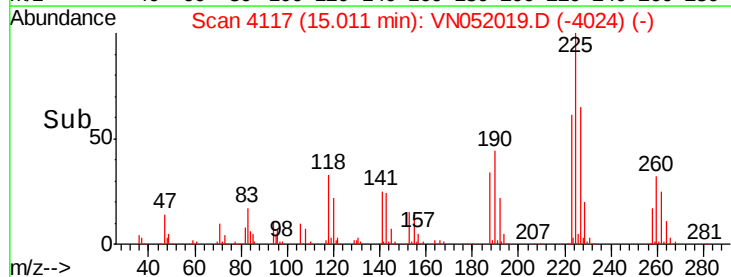
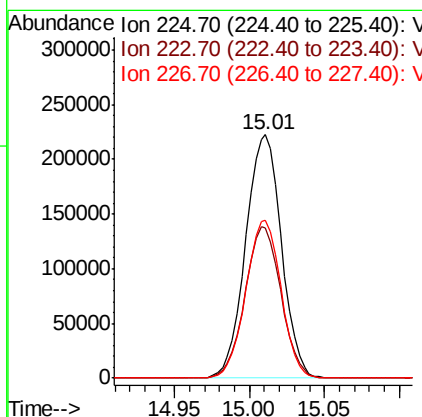
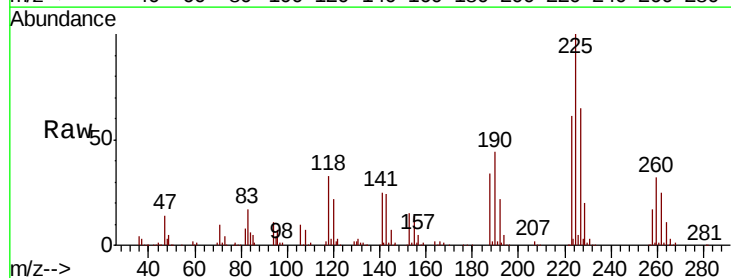
Manual Integrations
 APPROVED

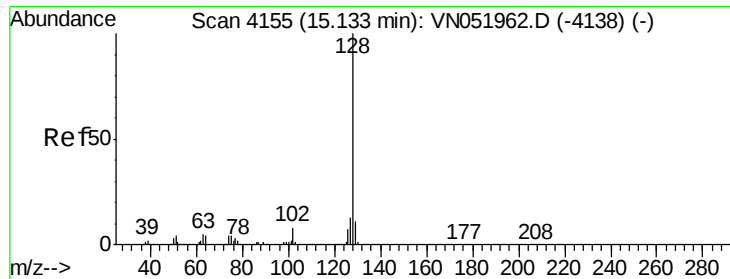
MMDadoda
 10/29/2018 3:46:20 PM



#94
 Hexachlorobutadiene
 Concen: 40.069 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052019.D
 Acq: 26 Oct 2018 10:54

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	369530		
223	62.7	31.8	95.4	
227	64.1	31.4	94.2	





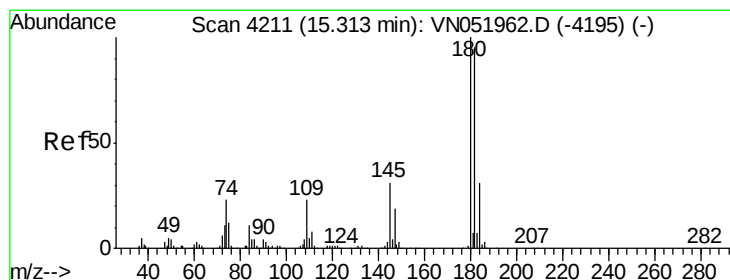
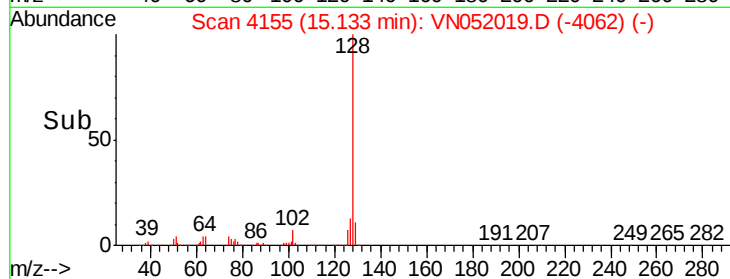
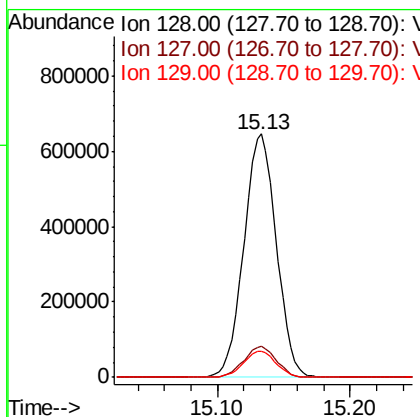
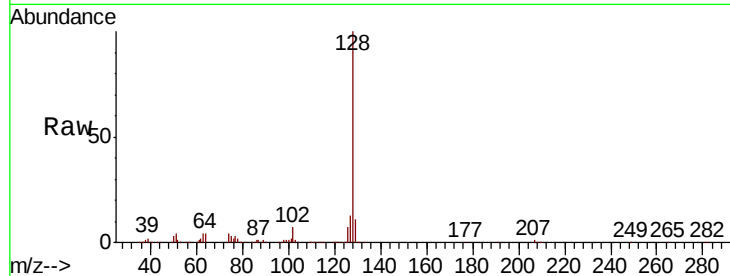
#95
Naphthalene
Concen: 28.144 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:128 Resp: 1097021
Ion Ratio Lower Upper
128 100
127 12.8 10.3 15.5
129 10.8 8.6 13.0

Manual Integrations
APPROVED

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10/29/2018 3:46:20 PM



#96
1,2,3-Trichlorobenzene
Concen: 27.790 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN052019.D
Acq: 26 Oct 2018 10:54

Tgt Ion:180 Resp: 476747
Ion Ratio Lower Upper
180 100
182 95.3 47.9 143.6
145 29.6 15.4 46.2

