

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031419\
 Data File : VN054282.D
 Acq On : 15 Mar 2019 1:21
 Operator : JC/SP
 Sample : VN0314WBSD02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBSD02

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:14:27 AM

Quant Time: Mar 15 08:23:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1340814	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2095240	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1804624	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	810631	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	746591	52.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.86%	
35) Dibromofluoromethane	7.59	113	693734	51.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.68%	
50) Toluene-d8	10.09	98	2475293	49.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.20%	
62) 4-Bromofluorobenzene	12.40	95	816283	46.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.48%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.85	85	259530	20.423	ug/l	99
3) Chloromethane	2.06	50	247107	20.019	ug/l	99
4) Vinyl Chloride	2.19	62	283618	20.103	ug/l	100
5) Bromomethane	2.57	94	189759	19.420	ug/l	96
6) Chloroethane	2.71	64	169872	19.900	ug/l	99
7) Trichlorofluoromethane	3.02	101	364493	19.432	ug/l	99
8) Diethyl Ether	3.41	74	183861	21.509	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	289535	20.598	ug/l	99
10) Methyl Iodide	3.94	142	372264	19.587	ug/l	99
11) Tert butyl alcohol	4.82	59	89184	91.360	ug/l	100
12) 1,1-Dichloroethene	3.73	96	296852	21.311	ug/l	98
13) Acrolein	3.61	56	65048	70.321	ug/l	98
14) Allyl chloride	4.32	41	343952	19.245	ug/l	98
15) Acrylonitrile	4.99	53	430773	107.429	ug/l	99
16) Acetone	3.82	43	309039	75.799	ug/l	99
17) Carbon Disulfide	4.04	76	629411	18.025	ug/l	99
18) Methyl Acetate	4.33	43	194119	23.533	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	740040	21.434	ug/l	98
20) Methylene Chloride	4.54	84	282824	21.126	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	276041	20.683	ug/l	100
22) Diisopropyl ether	5.96	45	746926	20.940	ug/l	99
23) Vinyl Acetate	5.90	43	2625305	99.824	ug/l	99
24) 1,1-Dichloroethane	5.85	63	485836	21.213	ug/l	99
25) 2-Butanone	6.85	43	476486	99.574	ug/l	99
26) 2,2-Dichloropropane	6.82	77	282892	14.046	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	324172	21.772	ug/l	95
28) Bromochloromethane	7.19	49	192939	20.607	ug/l	97
29) Tetrahydrofuran	7.22	42	316890	102.995	ug/l	98
30) Chloroform	7.37	83	522178	21.849	ug/l	100
31) Cyclohexane	7.65	56	434589	19.549	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	437663	20.277	ug/l	99
36) 1,1-Dichloropropene	7.79	75	375200	19.445	ug/l	100
37) Ethyl Acetate	6.94	43	223546	20.163	ug/l	98
38) Carbon Tetrachloride	7.77	117	378898	18.725	ug/l	100

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	433375	18.255	ug/l	99
40) Benzene	8.04	78	1145208	20.741	ug/l	100
41) Methacrylonitrile	7.18	41	115906	18.310	ug/l	94
42) 1,2-Dichloroethane	8.13	62	376722	20.209	ug/l	98
43) Isopropyl Acetate	8.17	43	362809	18.643	ug/l	99
44) Trichloroethene	8.84	130	349113	20.353	ug/l	97
45) 1,2-Dichloropropane	9.12	63	286102	20.867	ug/l	100
46) Dibromomethane	9.21	93	190457	20.560	ug/l	99
47) Bromodichloromethane	9.40	83	370762	19.964	ug/l	99
48) Methyl methacrylate	9.20	41	201646	20.418	ug/l	98
49) 1,4-Dioxane	9.21	88	55962	400.606	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	1033045	100.309	ug/l	98
52) Toluene	10.16	92	718465	20.521	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	319351	16.423	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	395860	18.292	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	270836	21.186	ug/l	97
56) Ethyl methacrylate	10.43	69	297841	19.540	ug/l	98
57) 1,3-Dichloropropane	10.71	76	434554	20.789	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	585068	99.345	ug/l	99
59) 2-Hexanone	10.75	43	646877	94.398	ug/l	99
60) Dibromochloromethane	10.90	129	276675	19.229	ug/l	98
61) 1,2-Dibromoethane	11.01	107	268136	20.640	ug/l	99
64) Tetrachloroethene	10.63	164	366824	21.024	ug/l	98
65) Chlorobenzene	11.44	112	821887	20.742	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	294060	20.429	ug/l	99
67) Ethyl Benzene	11.51	91	1327479	20.210	ug/l	98
68) m/p-Xylenes	11.62	106	1035278	40.326	ug/l	99
69) o-Xylene	11.95	106	527221	21.067	ug/l	96
70) Styrene	11.96	104	796395	20.290	ug/l	99
71) Bromoform	12.13	173	174834	17.535	ug/l #	98
73) Isopropylbenzene	12.25	105	1375775	21.213	ug/l	100
74) N-amyl acetate	12.07	43	282763	19.642	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.51	83	296275	21.442	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	264201m	22.163	ug/l	
77) Bromobenzene	12.53	156	362143	21.102	ug/l	96
78) n-propylbenzene	12.59	91	1448069	20.577	ug/l	100
79) 2-Chlorotoluene	12.68	91	882406	20.854	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1108016	20.539	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	46410	13.309	ug/l #	81
82) 4-Chlorotoluene	12.77	91	859741	20.349	ug/l	99
83) tert-Butylbenzene	12.99	119	1037783	20.900	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1112332	21.018	ug/l	100
85) sec-Butylbenzene	13.17	105	1329343	20.644	ug/l	100
86) p-Isopropyltoluene	13.29	119	1146744	20.299	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	601623	20.804	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	582936	20.520	ug/l	99
89) n-Butylbenzene	13.62	91	827697	19.283	ug/l	99
90) Hexachloroethane	13.88	117	169920	18.165	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	607775	21.499	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	39632	18.535	ug/l	94

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ALS Vial : 33 Sample Multiplier: 1

Instrument :
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ClientSampleId :
VN0314WBSD02

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	302952	19.373	ug/l	98
94) Hexachlorobutadiene	15.01	225	208261	19.341	ug/l	99
95) Naphthalene	15.13	128	652263	20.542	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	313626	20.880	ug/l	99

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

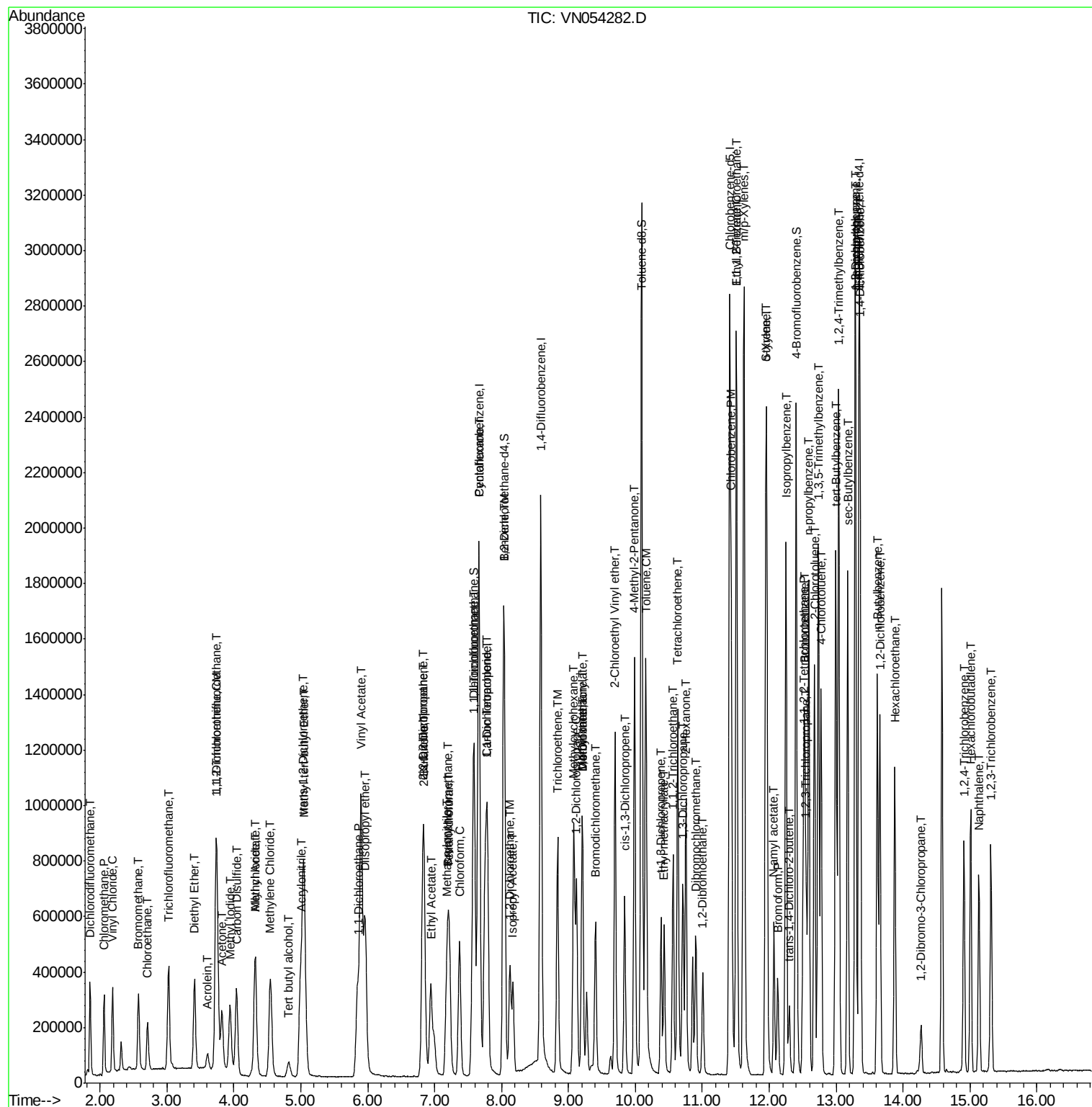
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 Data File : VN054282.D
 Acq On : 15 Mar 2019 1:21
 Operator : JC/SP
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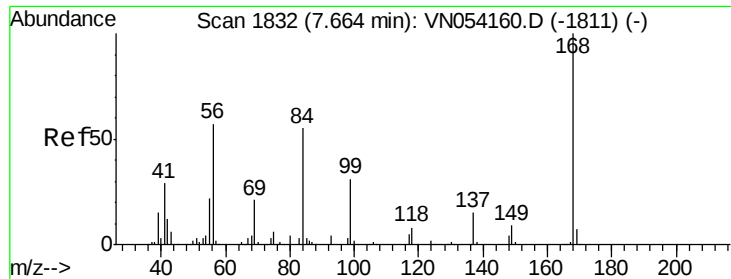
Instrument :
 MSVOA_N
 Client Sample ID :
 VN0314WBSD02

Manual Integrations
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBSD02

Tgt Ion:168 Resp: 1340814

Ion Ratio Lower Upper

168 100

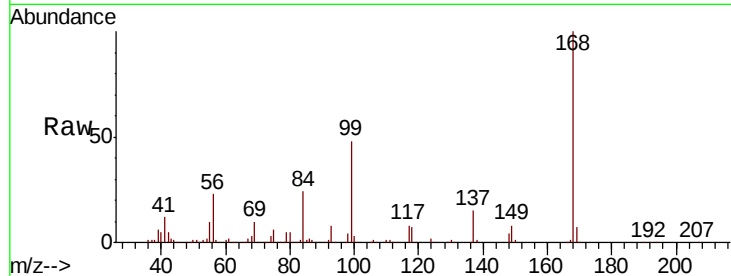
99 47.0 37.1 55.7

Manual Integrations

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3/15/2019 10:14:27 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNC

7.66

600000

500000

400000

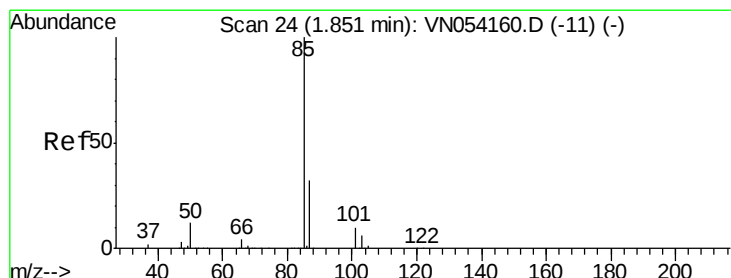
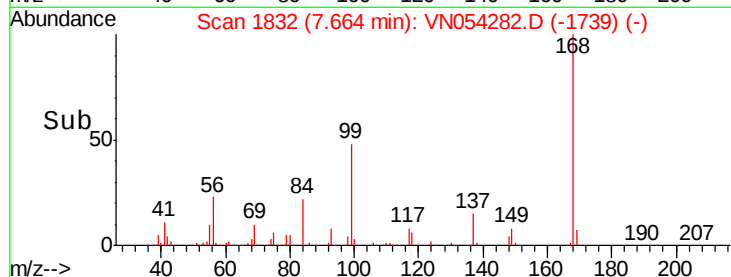
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 20.423 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN054282.D

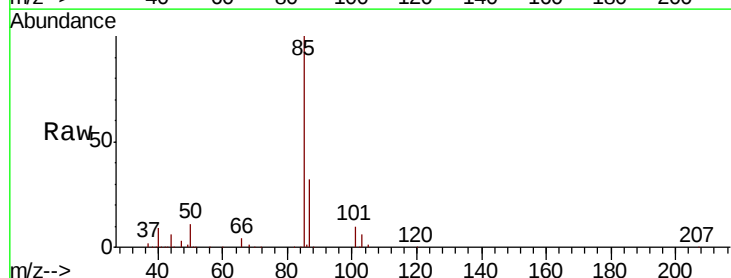
Acq: 15 Mar 2019 1:21

Tgt Ion: 85 Resp: 259530

Ion Ratio Lower Upper

85 100

87 32.4 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNC

Ion 86.90 (86.60 to 87.60): VNC

1.85

200000

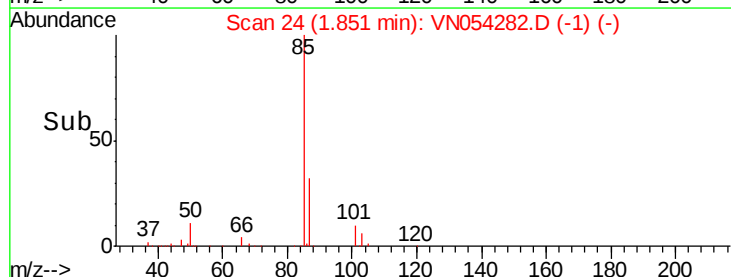
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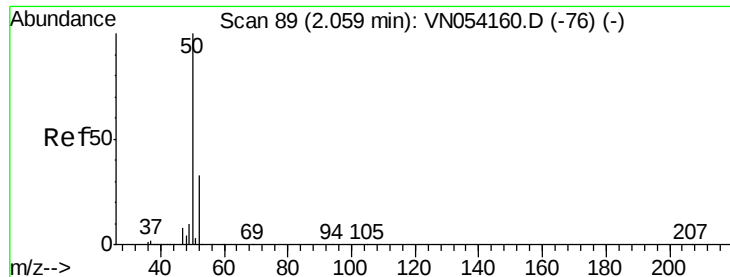
100000

50000

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Time-->





#3

Chloromethane

Concen: 20.019 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBSD02

Tgt Ion: 50 Resp: 247107

Ion Ratio Lower Upper

50 100

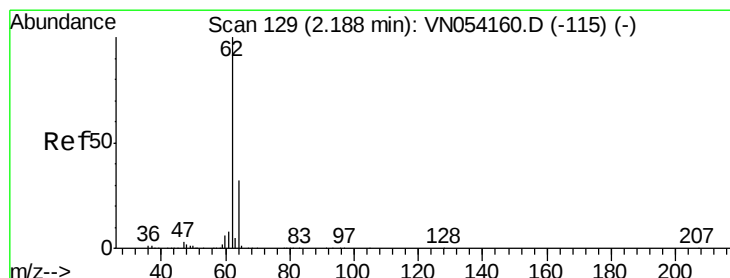
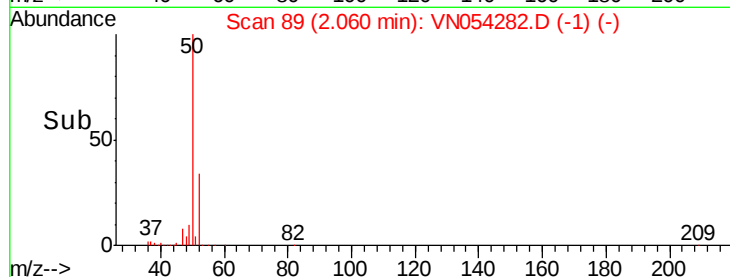
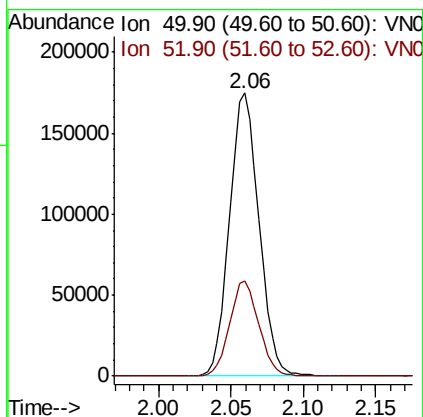
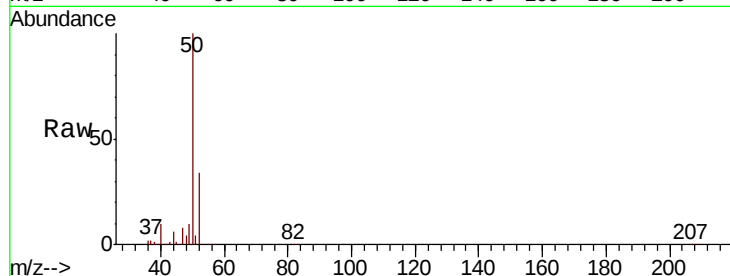
52 33.5 26.4 39.6

Manual Integrations

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3/15/2019 10:14:27 AM



#4

Vinyl Chloride

Concen: 20.103 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054282.D

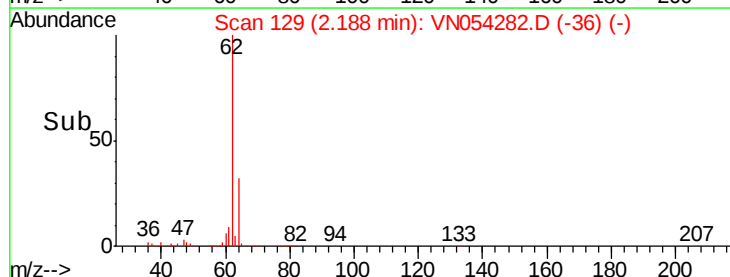
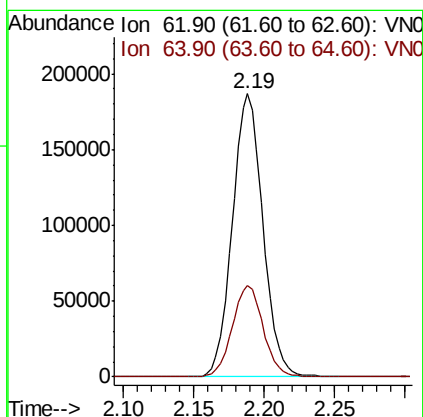
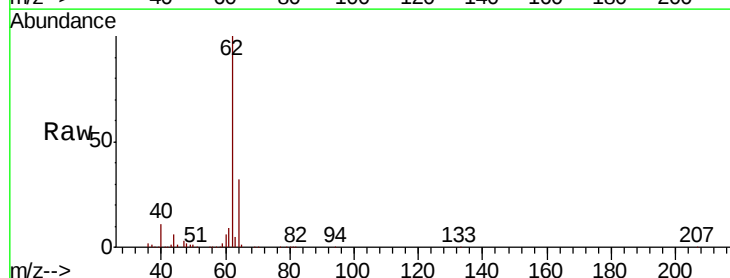
Acq: 15 Mar 2019 1:21

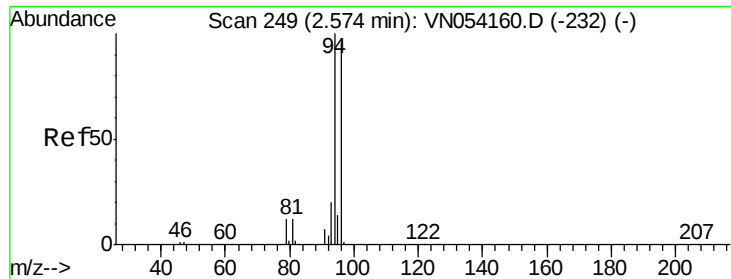
Tgt Ion: 62 Resp: 283618

Ion Ratio Lower Upper

62 100

64 32.1 25.5 38.3





#5

Bromomethane

Concen: 19.420 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBSD02

Tgt Ion: 94 Resp: 189759

Ion Ratio Lower Upper

94 100

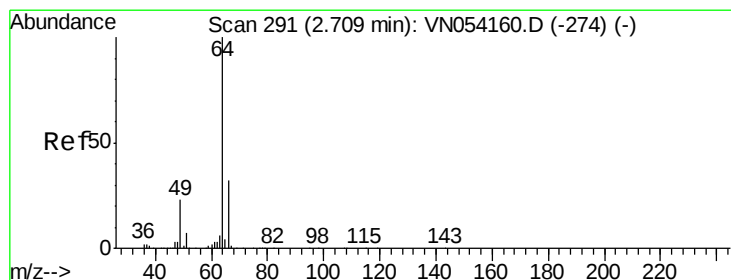
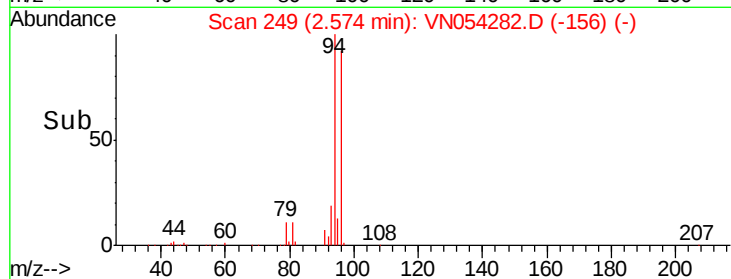
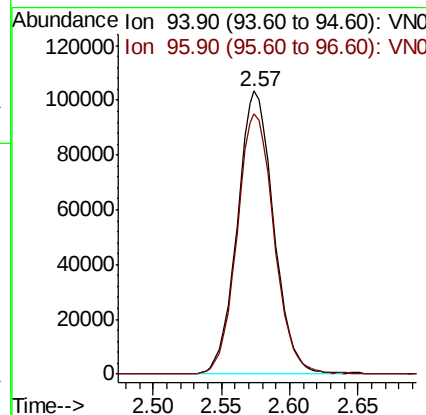
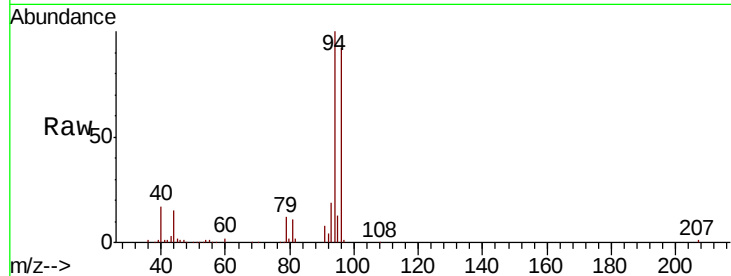
96 92.0 77.0 115.4

Manual Integrations

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#6

Chloroethane

Concen: 19.900 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054282.D

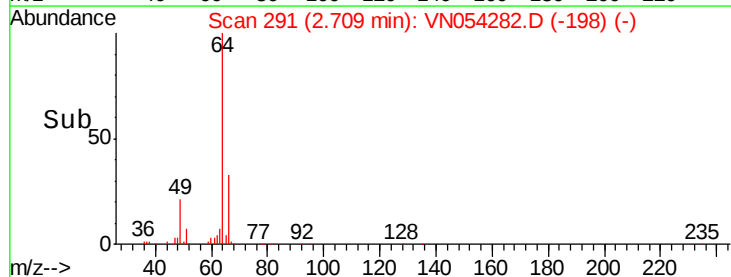
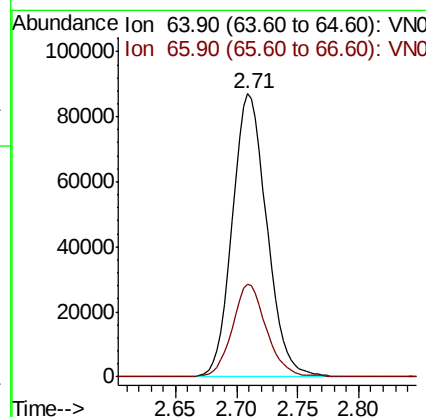
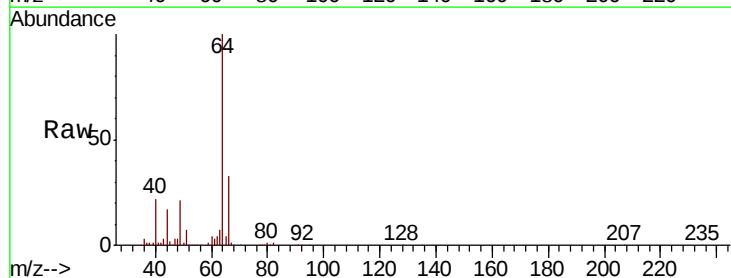
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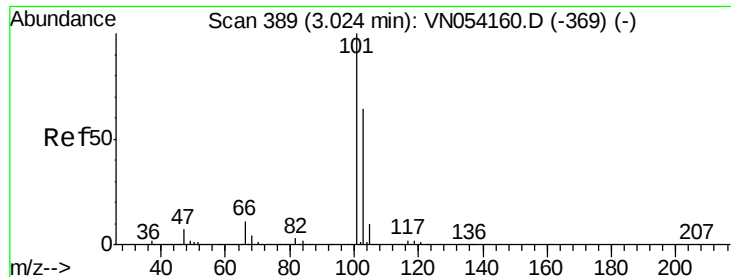
Tgt Ion: 64 Resp: 169872

Ion Ratio Lower Upper

64 100

66 32.6 25.7 38.5





#7

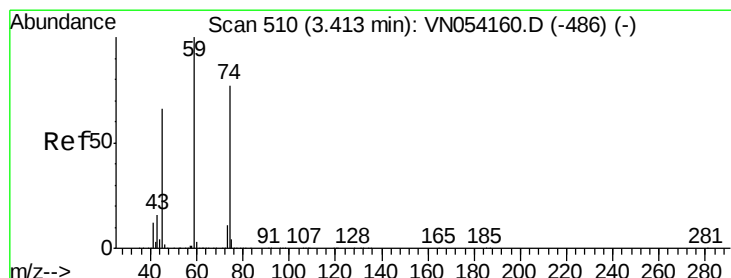
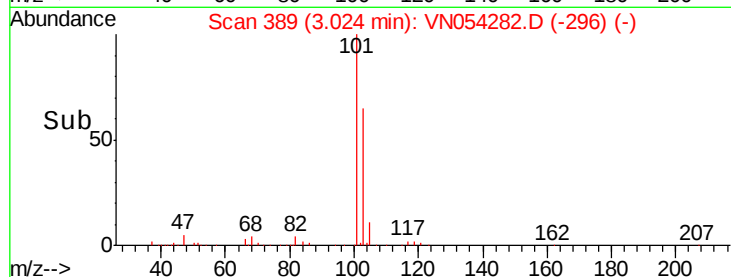
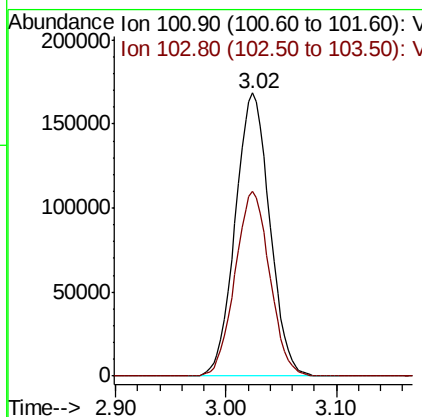
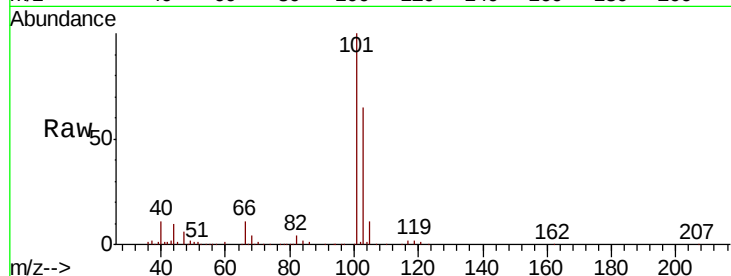
Trichlorofluoromethane
Concen: 19.432 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Instrument :
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Tgt Ion	Ratio	Resp	Lower	Upper
101	100	364493		
103	65.2	51.4	77.2	

Manual Integrations
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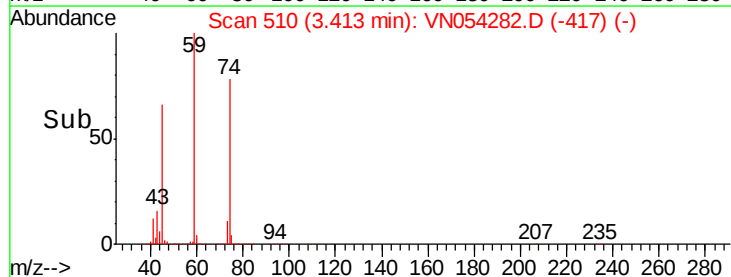
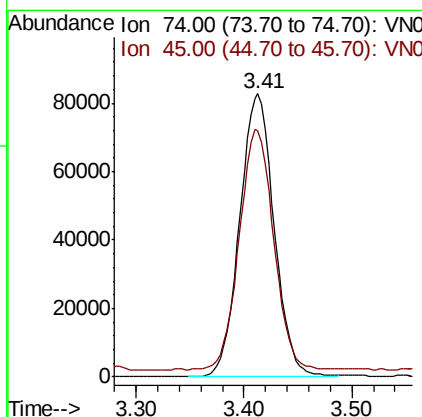
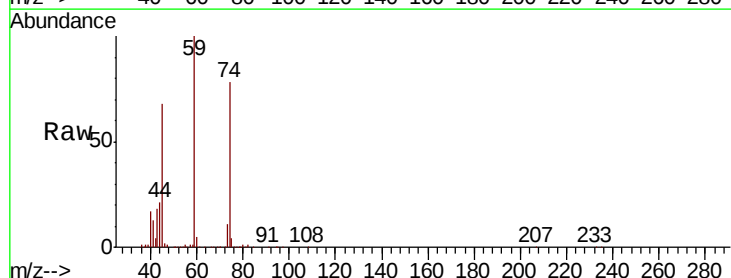
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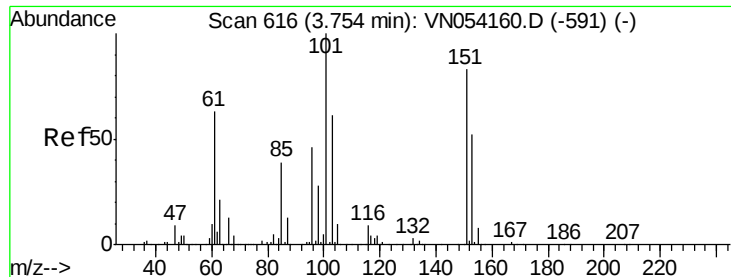


#8

Diethyl Ether
Concen: 21.509 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054282.D
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Tgt Ion	Ratio	Resp	Lower	Upper
74	100	183861		
45	84.2	43.1	129.4	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.598 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

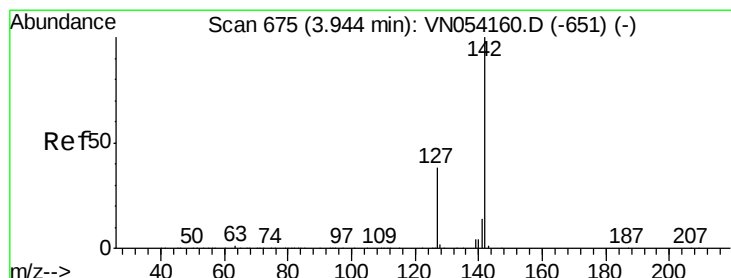
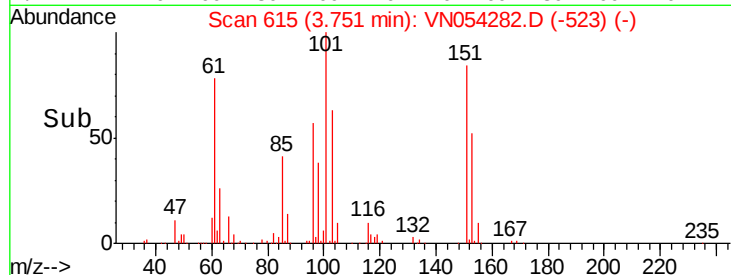
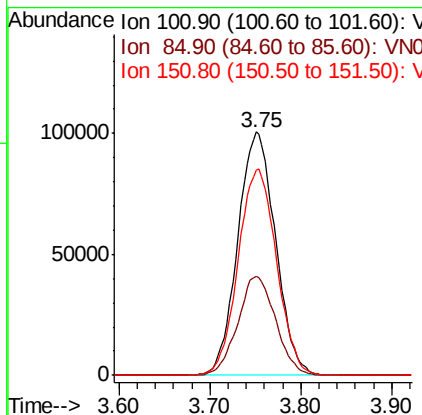
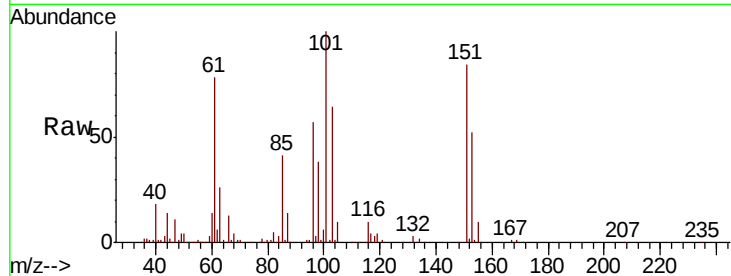
ClientSampleId :

VN0314WBSD02

Tgt	Ion	101	Resp:	289535
Ion	Ratio	Lower	Upper	
101	100			
85	40.8	32.4	48.6	
151	86.2	68.2	102.2	

Manual Integrations
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#10

Methyl Iodide

Concen: 19.587 ug/l

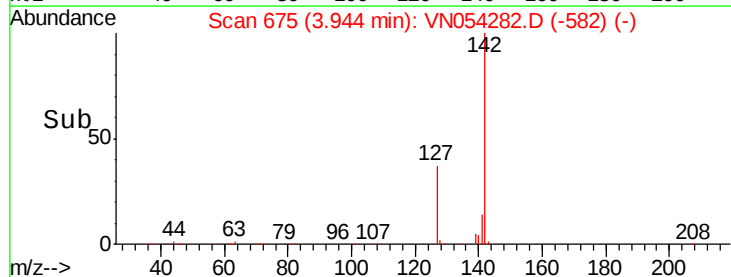
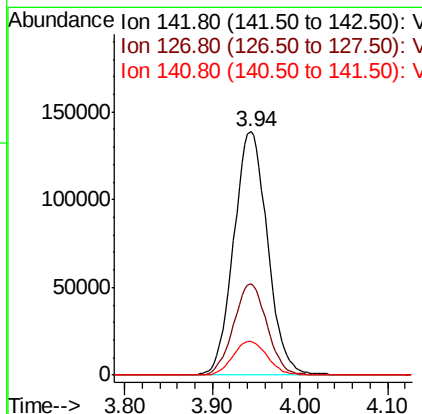
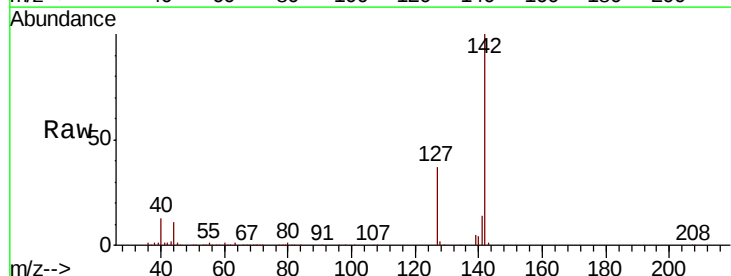
RT: 3.94 min Scan# 675

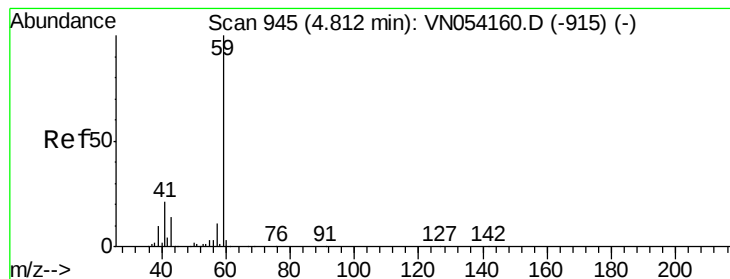
Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Tgt	Ion	142	Resp:	372264
Ion	Ratio	Lower	Upper	
142	100			
127	37.2	30.3	45.5	
141	14.1	11.2	16.8	





#11

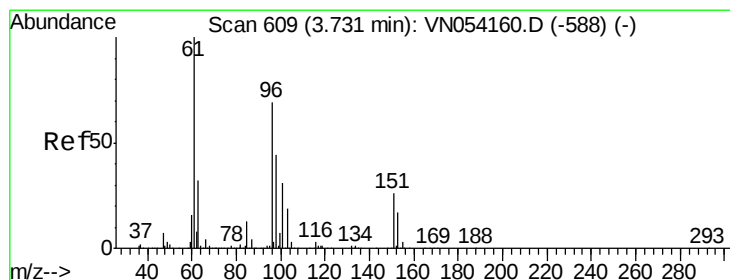
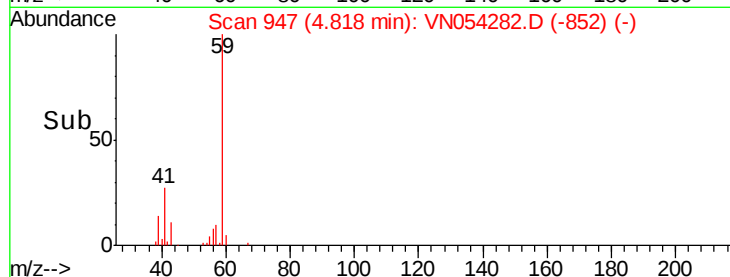
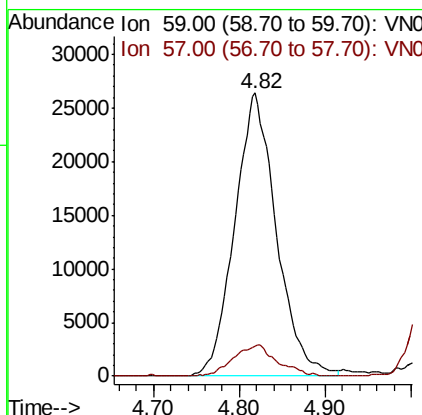
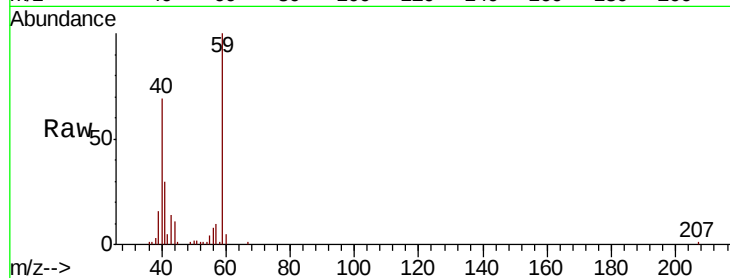
Tert butyl alcohol
 Concen: 91.360 ug/l
 RT: 4.82 min Scan# 947
 Delta R.T. 0.01 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBSD02

Tgt Ion	Ratio	Lower	Upper
59	100		
57	11.5	9.0	13.6

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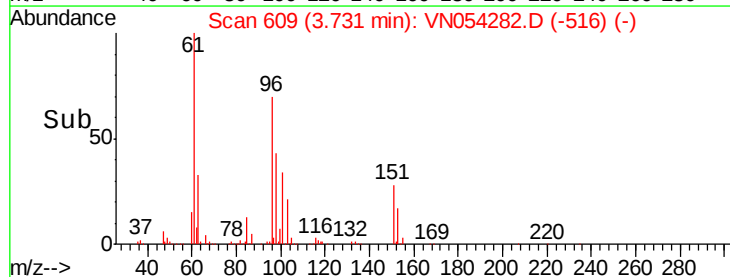
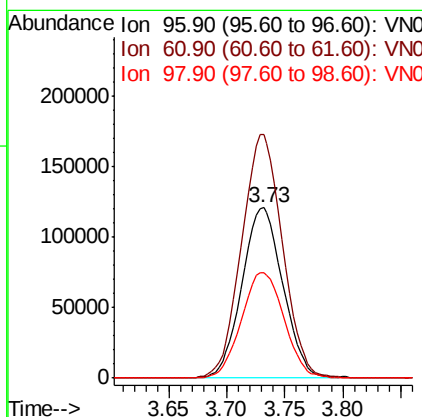
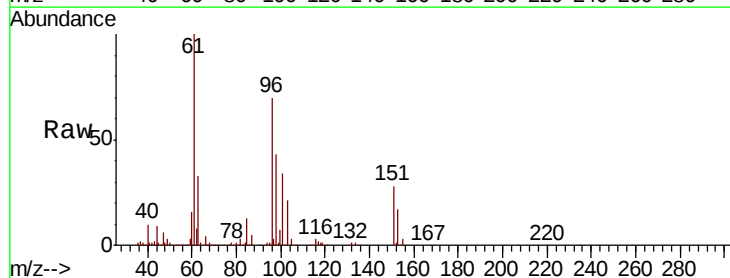
MMDadoda
 3/15/2019 10:14:27 AM



#12

1,1-Dichloroethene
 Concen: 21.311 ug/l
 RT: 3.73 min Scan# 609
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Lower	Upper
96	100		
61	143.4	116.5	174.7
98	61.9	51.0	76.4





#13

Acrolein

Concen: 70.321 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBSD02

Tgt Ion: 56 Resp: 65048

Ion Ratio Lower Upper

56 100

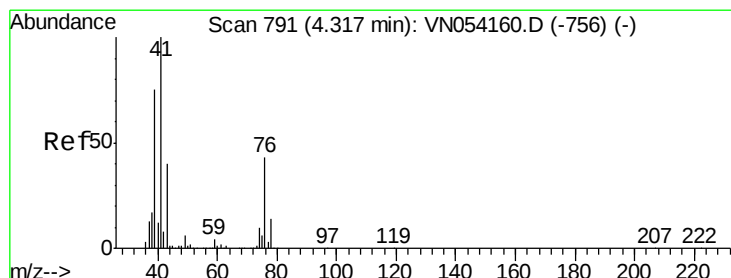
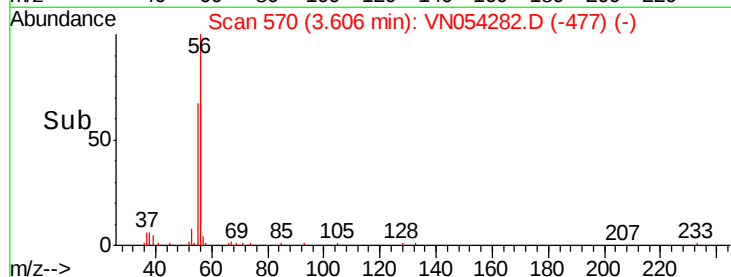
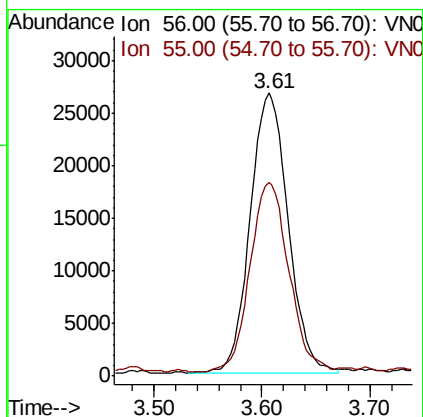
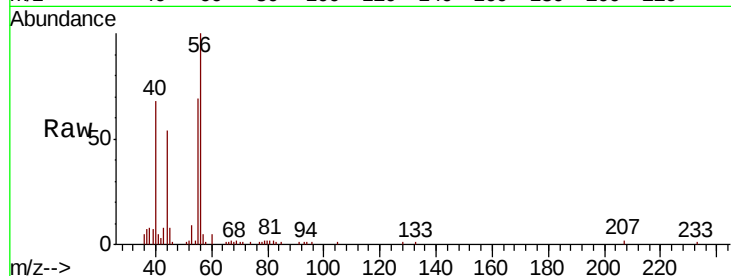
55 68.9 56.7 85.1

Manual Integrations

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MMDadoda

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#14

Allyl chloride

Concen: 19.245 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

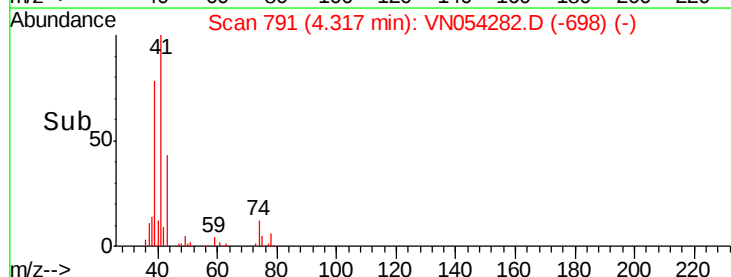
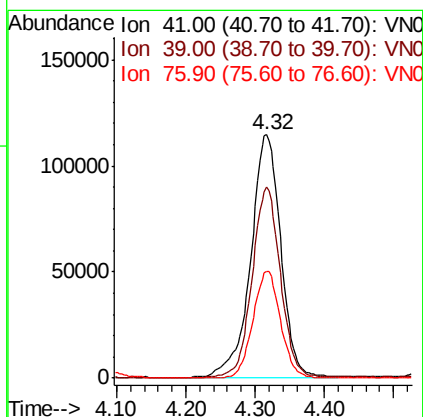
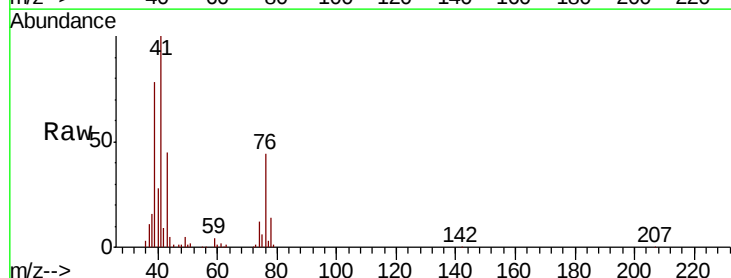
Tgt Ion: 41 Resp: 343952

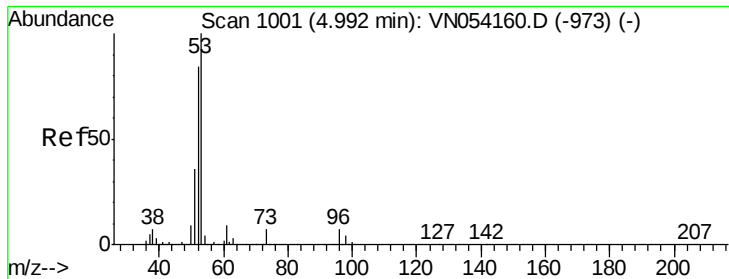
Ion Ratio Lower Upper

41 100

39 74.3 58.2 87.4

76 40.3 31.7 47.5





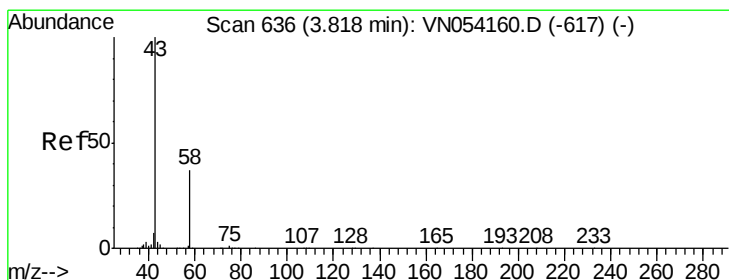
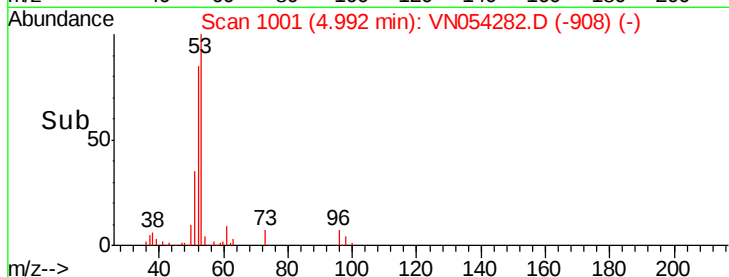
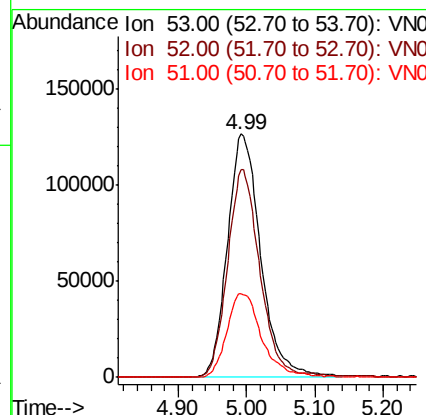
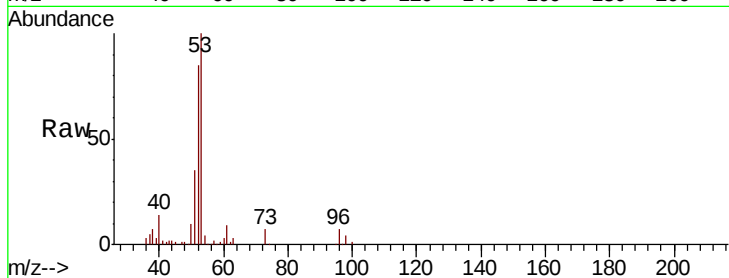
#15
 Acrylonitrile
 Concen: 107.429 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBSD02

Tgt Ion	Ratio	Lower	Upper
53	100		
52	82.8	66.4	99.6
51	36.0	29.6	44.4

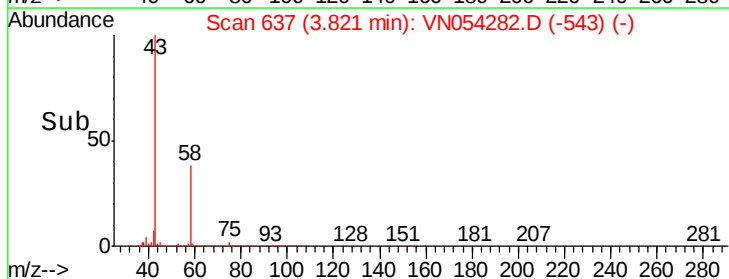
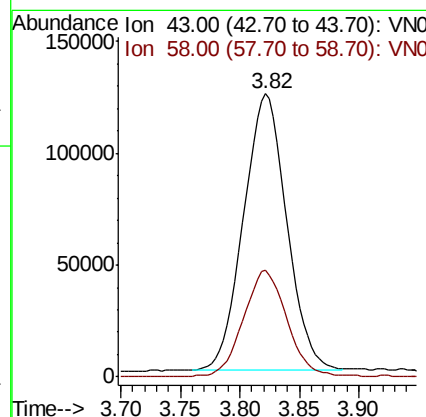
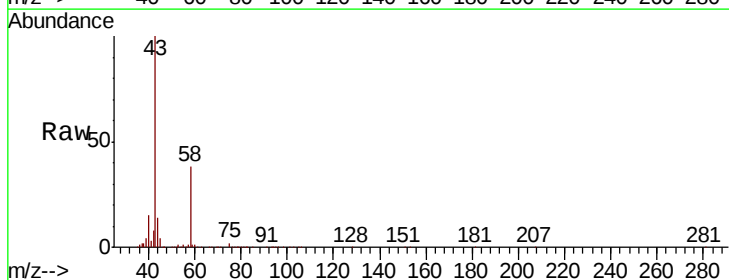
Manual Integrations
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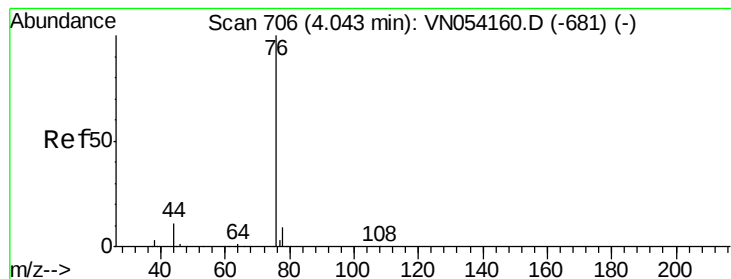
MMDadoda
 3/15/2019 10:14:27 AM



#16
 Acetone
 Concen: 75.799 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.2	29.9	44.9





#17

Carbon Disulfide

Concen: 18.025 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

ClientSampleID :

VN0314WBSD02

Tgt Ion: 76 Resp: 629411

Ion Ratio Lower Upper

76 100

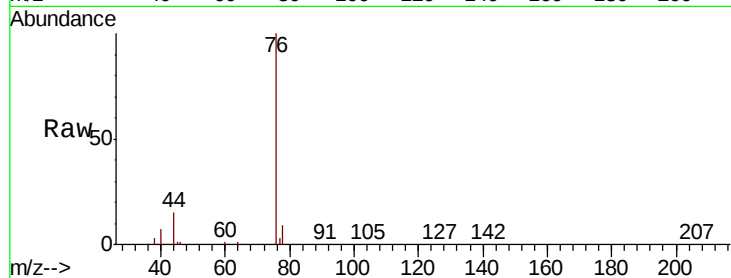
78 9.2 7.5 11.3

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.04

250000

200000

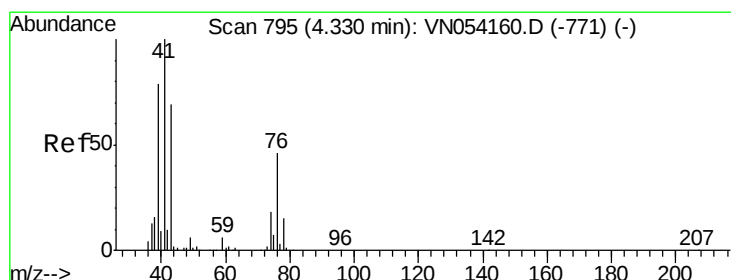
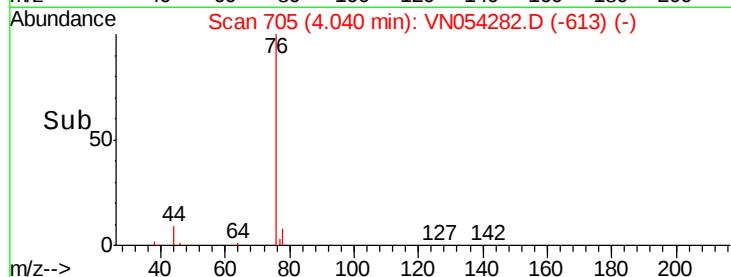
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 23.533 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN054282.D

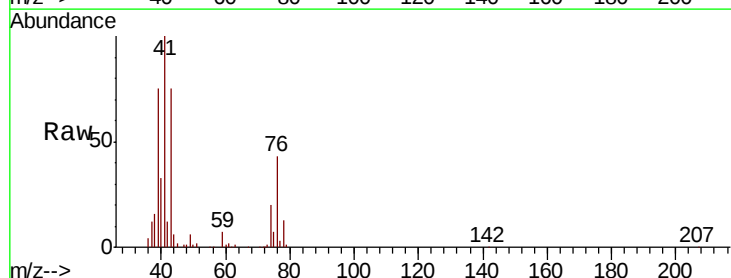
Acq: 15 Mar 2019 1:21

Tgt Ion: 43 Resp: 194119

Ion Ratio Lower Upper

43 100

74 25.7 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

4.33

80000

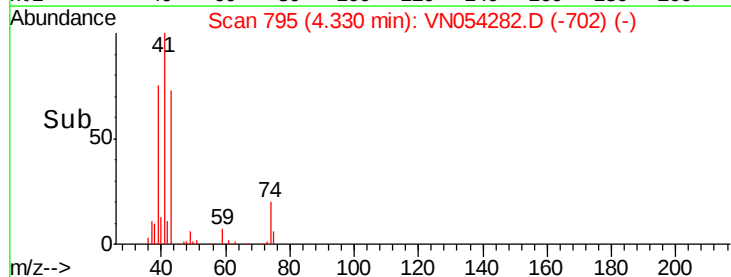
60000

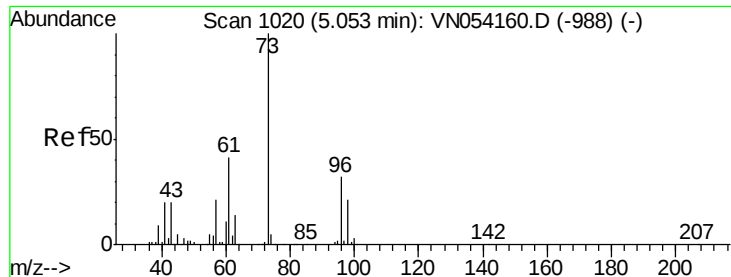
40000

20000

0

Time-->





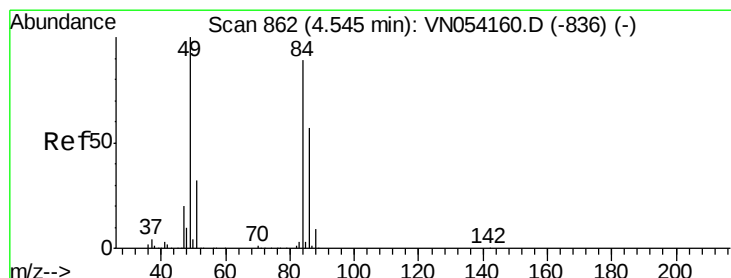
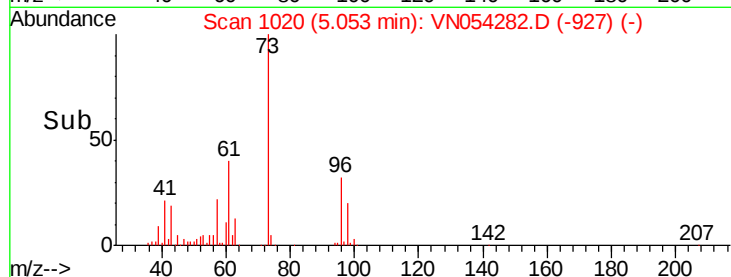
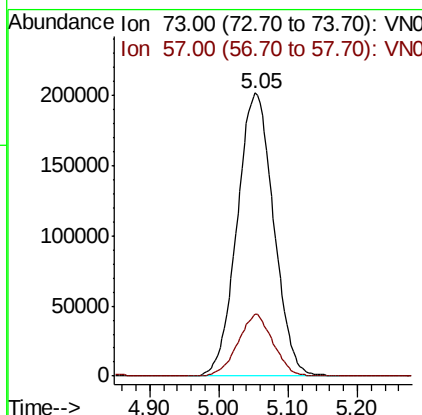
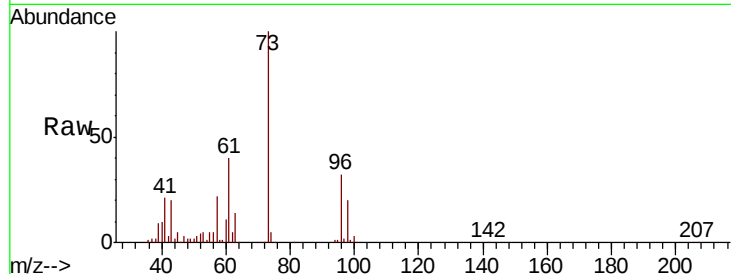
#19
Methyl tert-butyl Ether
Concen: 21.434 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Instrument :
MSVOA_N
ClientSampleId :
VN0314WBSD02

Tgt Ion: 73 Resp: 740040
Ion Ratio Lower Upper
73 100
57 22.0 16.8 25.2

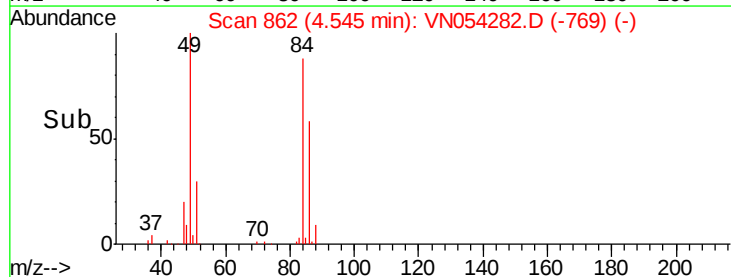
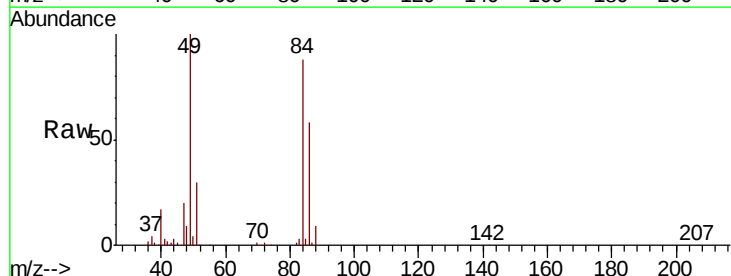
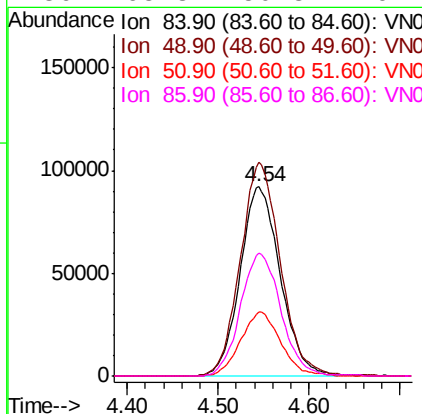
Manual Integrations
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#20
Methylene Chloride
Concen: 21.126 ug/l
RT: 4.54 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Tgt Ion: 84 Resp: 282824
Ion Ratio Lower Upper
84 100
49 113.1 89.7 134.5
51 33.9 28.2 42.4
86 65.3 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 20.683 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

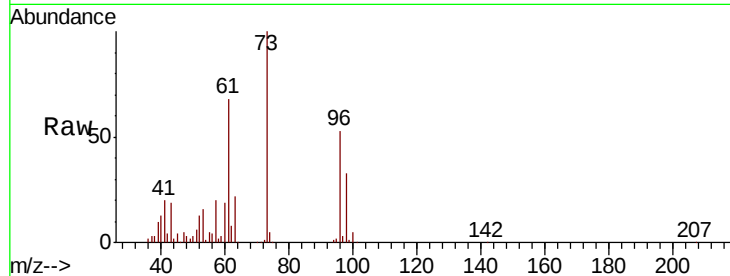
ClientSampleId :

VN0314WBSD02

Tgt Ion:	96	Resp:	276041
Ion	Ratio	Lower	Upper
96	100		
61	128.8	102.8	154.2
98	62.4	50.0	75.0

Manual Integrations
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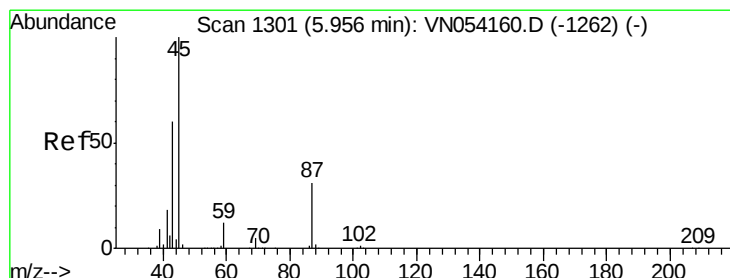
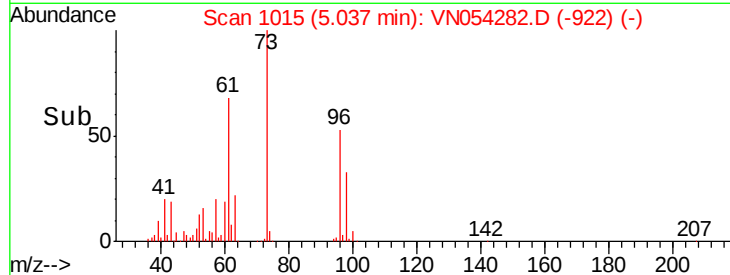
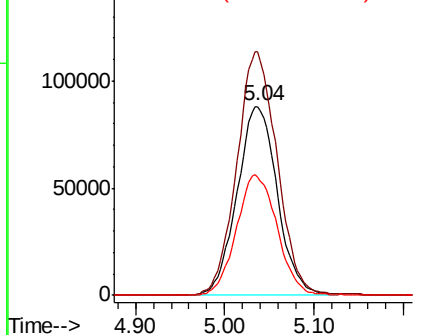


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 20.940 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Tgt Ion:	45	Resp:	746926
Ion	Ratio	Lower	Upper
45	100		
43	60.9	48.2	72.2
87	32.4	24.9	37.3
59	12.3	9.5	14.3

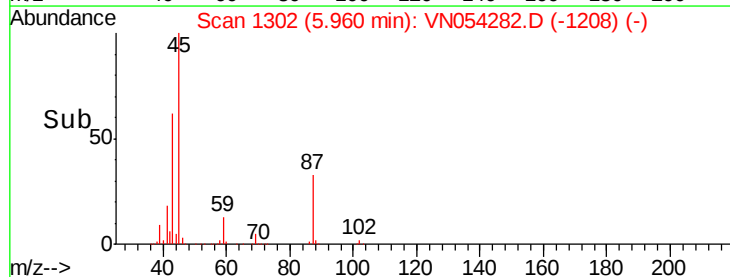
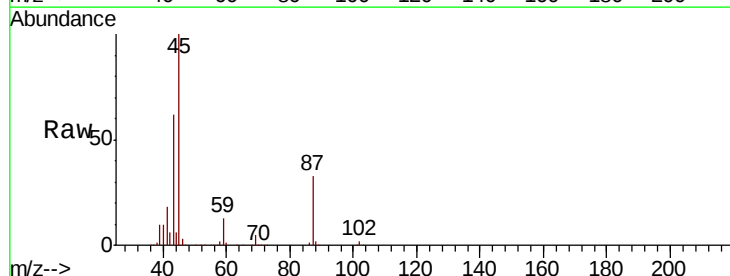
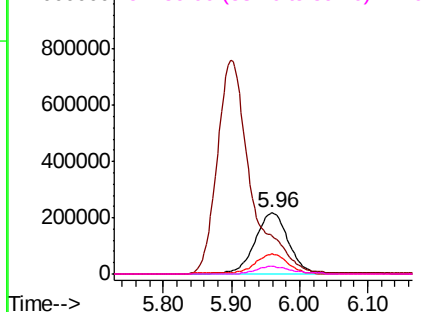
Abundance

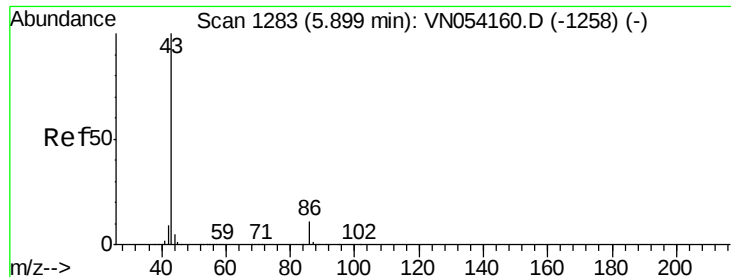
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 99.824 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBSD02

Tgt Ion: 43 Resp: 2625305

Ion Ratio Lower Upper

43 100

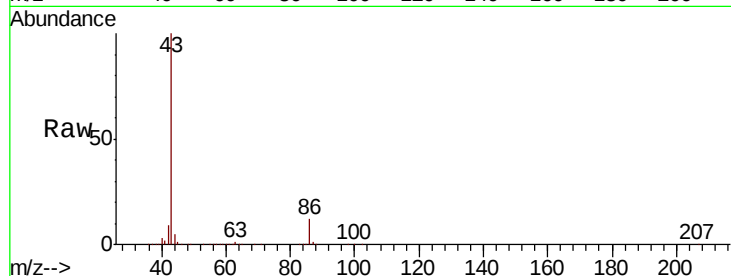
86 12.0 9.1 13.7

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

800000

600000

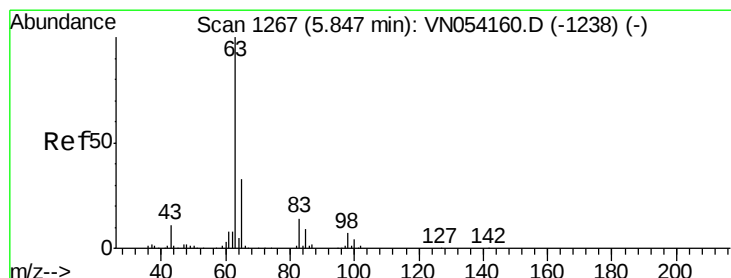
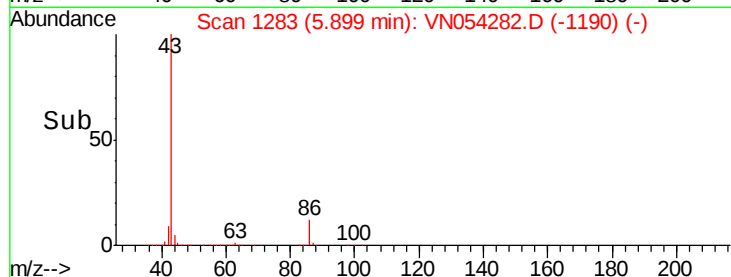
400000

200000

0

5.70 5.80 5.90 6.00 6.10

Time-->



#24

1,1-Dichloroethane

Concen: 21.213 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

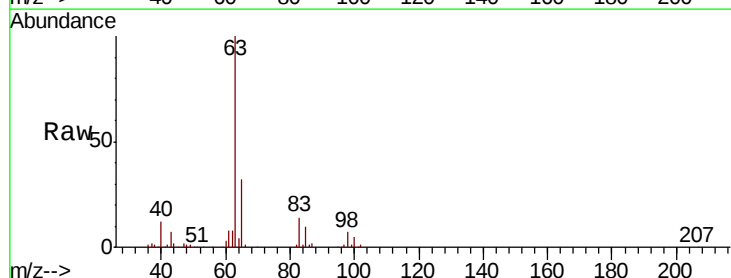
Tgt Ion: 63 Resp: 485836

Ion Ratio Lower Upper

63 100

98 6.8 3.5 10.5

100 4.6 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

200000

150000

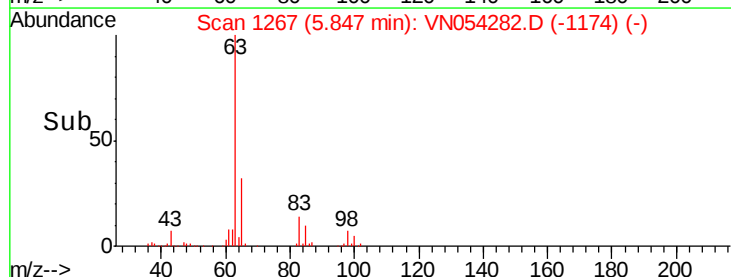
100000

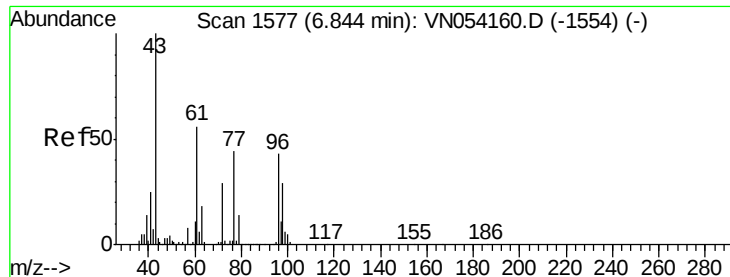
50000

0

5.70 5.80 5.90

Time-->





#25

2-Butanone

Concen: 99.574 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBSD02

Tgt Ion: 43 Resp: 476486

Ion Ratio Lower Upper

43 100

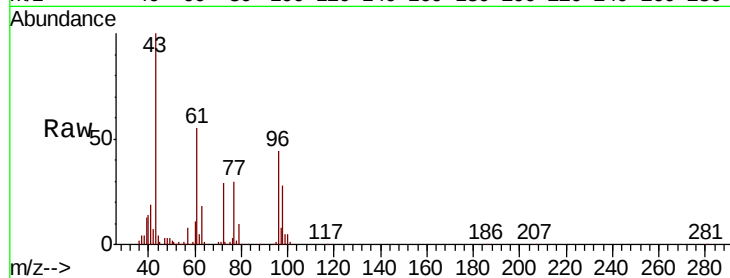
72 29.1 23.0 34.6

Manual Integrations

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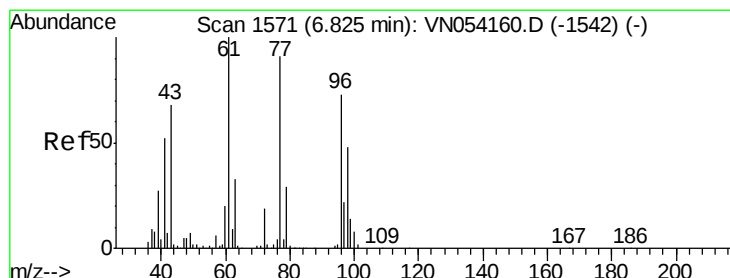
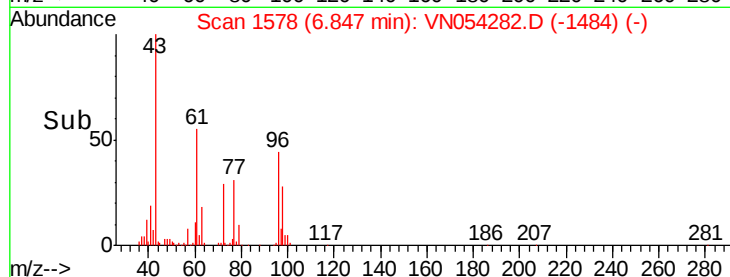
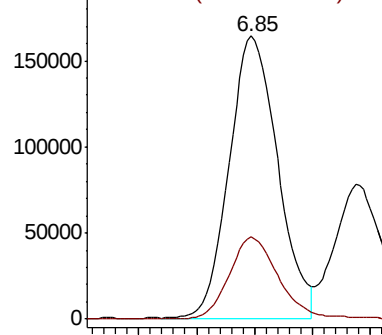
MMDadoda

3/15/2019 10:14:27 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 14.046 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN054282.D

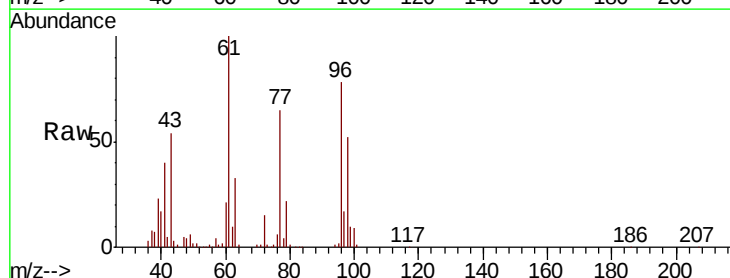
Acq: 15 Mar 2019 1:21

Tgt Ion: 77 Resp: 282892

Ion Ratio Lower Upper

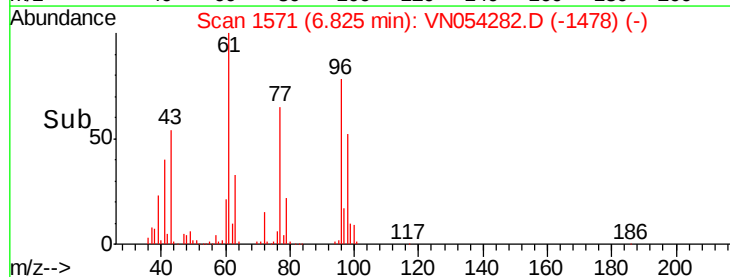
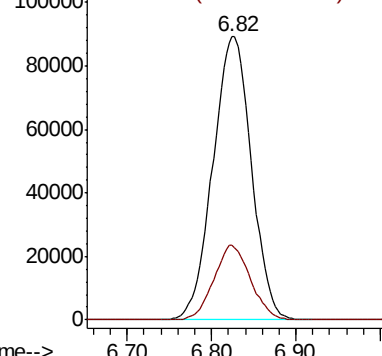
77 100

97 25.1 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 21.772 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

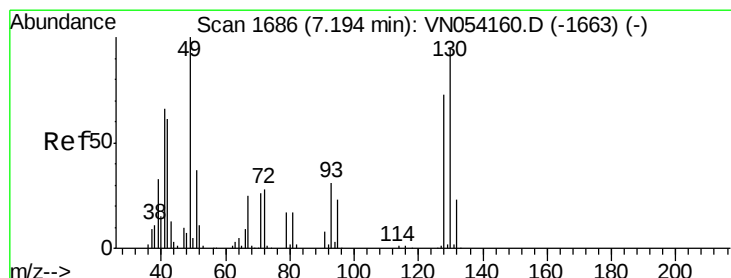
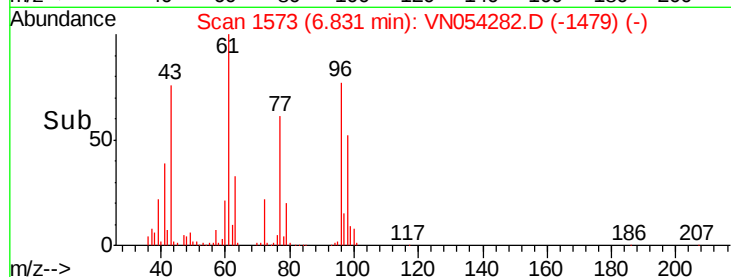
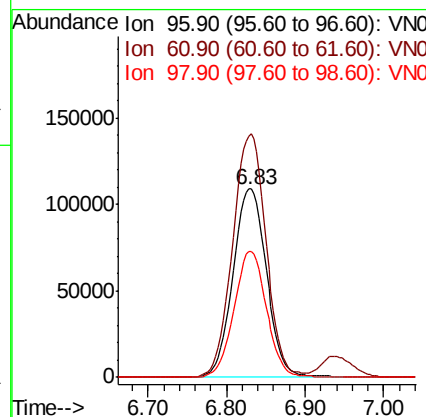
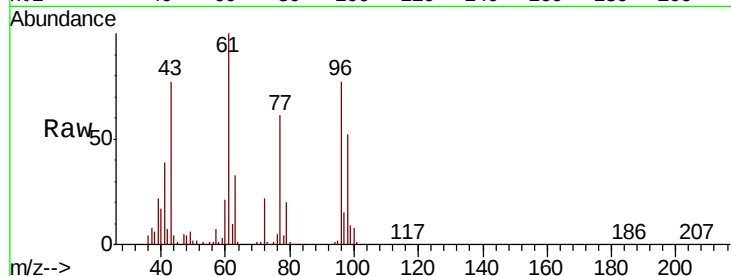
ClientSampleId :

VN0314WBSD02

Tgt Ion:	96	Resp:	324172
Ion Ratio	Lower	Upper	
96	100		
61	128.5	0.0	273.0
98	64.9	0.0	130.6

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MMDadoda
3/15/2019 10:14:27 AM



#28

Bromochloromethane

Concen: 20.607 ug/l

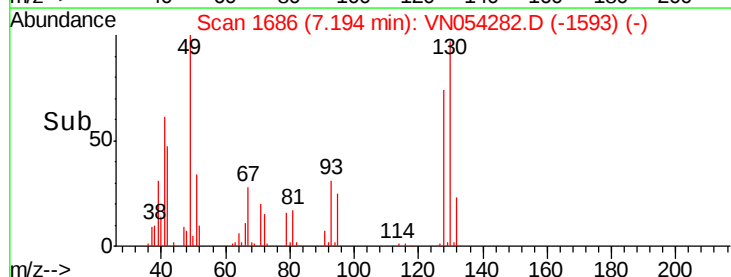
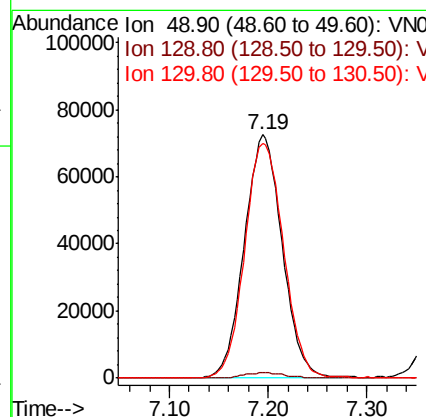
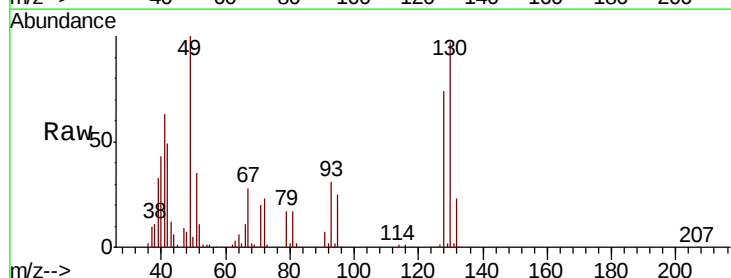
RT: 7.19 min Scan# 1686

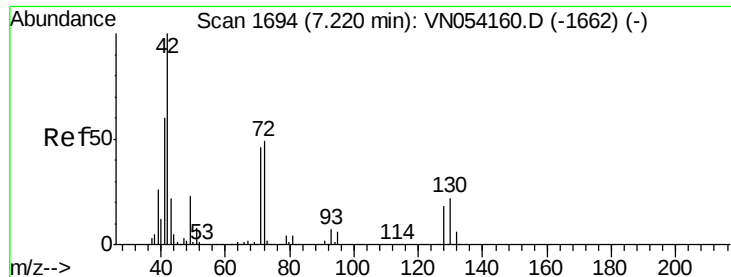
Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Tgt Ion:	49	Resp:	192939
Ion Ratio	Lower	Upper	
49	100		
129	2.4	0.0	4.6
130	98.5	76.7	115.1





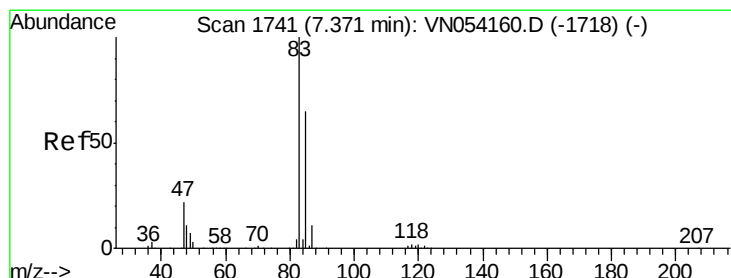
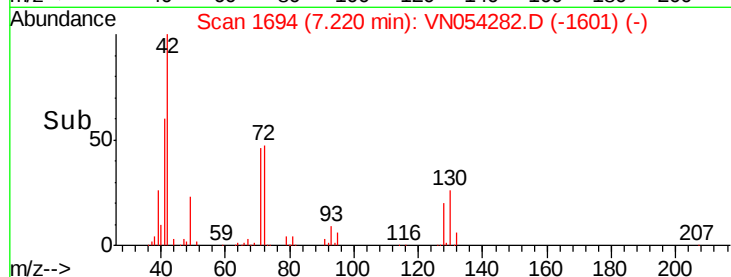
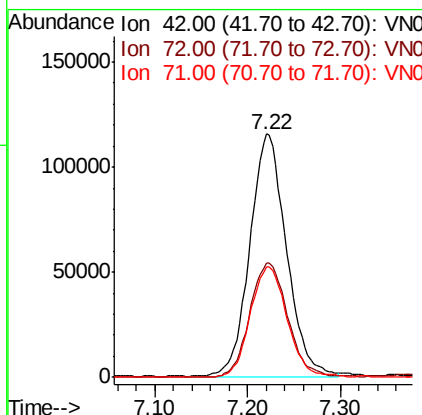
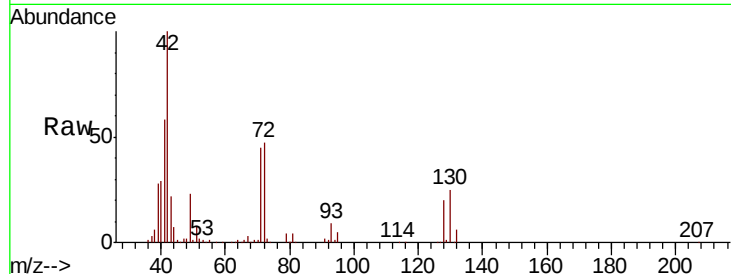
#29
Tetrahydrofuran
Concen: 102.995 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Instrument :
MSVOA_N
ClientSampleId :
VN0314WBSD02

Tgt Ion	Ratio	Lower	Upper
42	100		
72	49.1	37.8	56.6
71	46.3	36.2	54.2

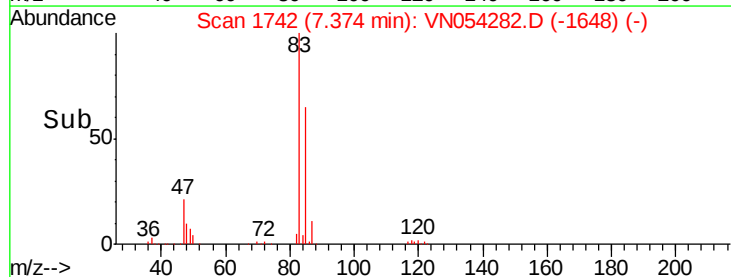
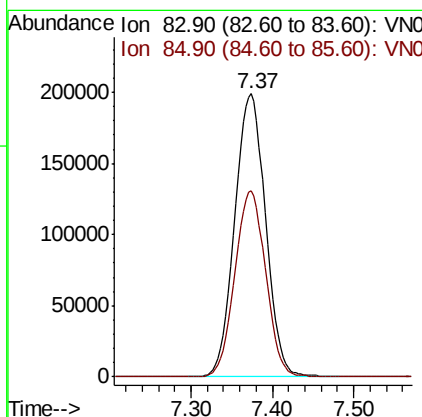
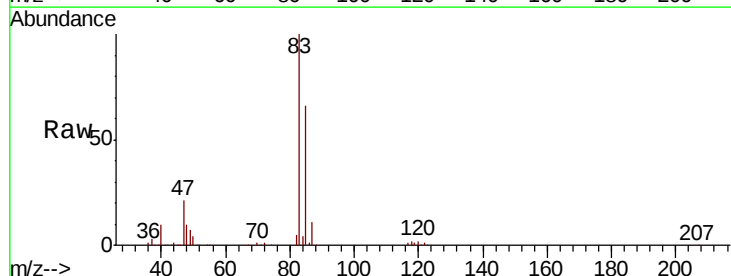
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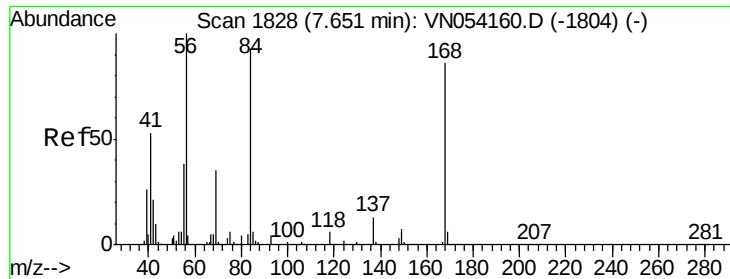
MMDadoda
3/15/2019 10:14:27 AM



#30
Chloroform
Concen: 21.849 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.2	78.4





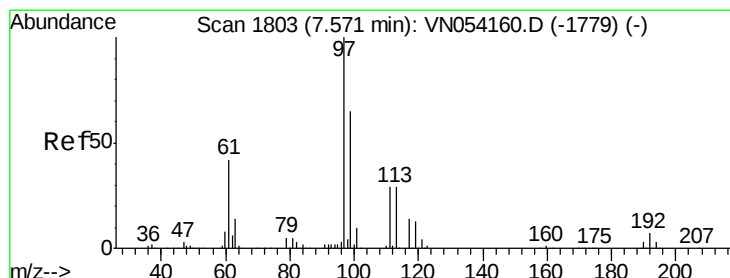
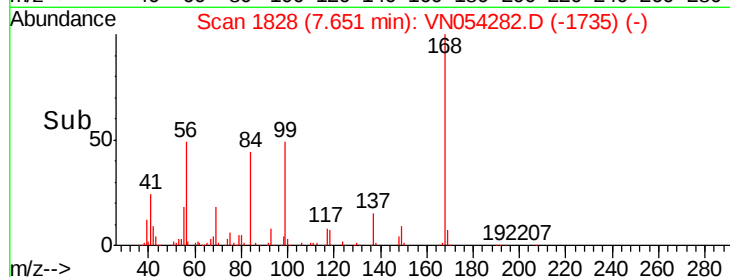
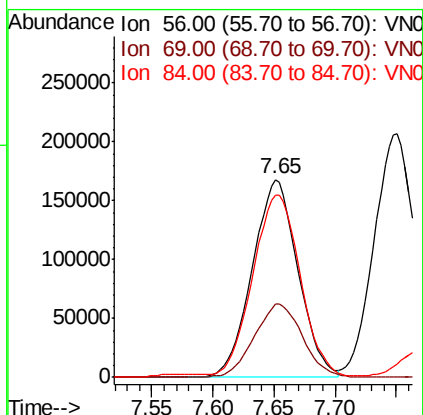
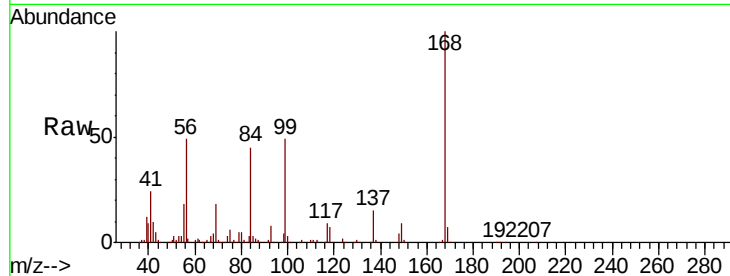
#31
Cyclohexane
Concen: 19.549 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Instrument :
MSVOA_N
ClientSampleId :
VN0314WBSD02

Tgt Ion	Ratio	Lower	Upper
56	100		
69	36.8	27.8	41.6
84	90.9	74.6	111.8

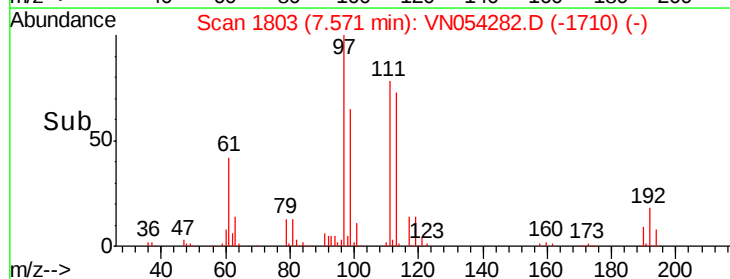
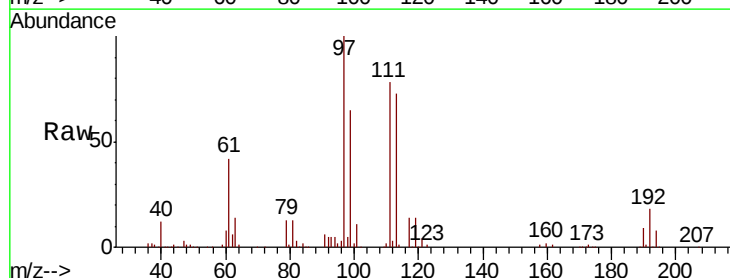
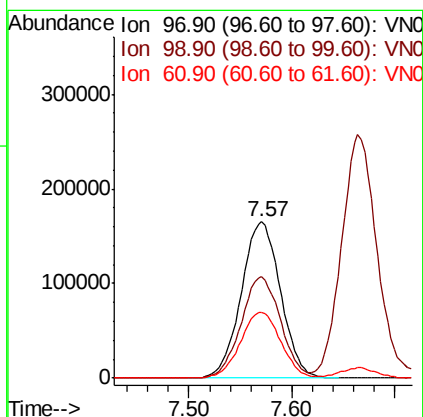
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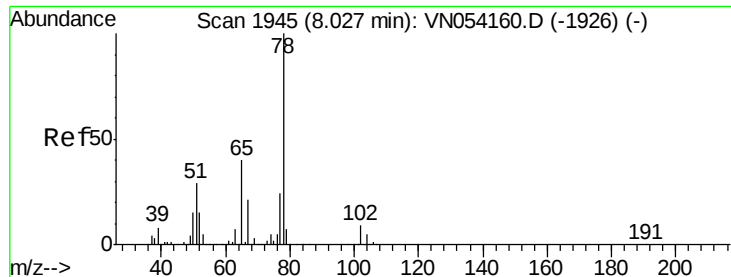
MMDadoda
3/15/2019 10:14:27 AM



#32
1,1,1-Trichloroethane
Concen: 20.277 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.5	77.3
61	43.3	33.6	50.4





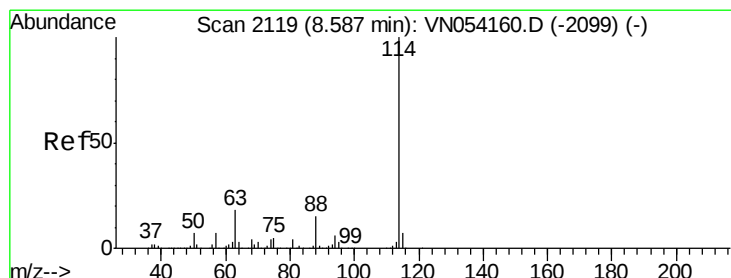
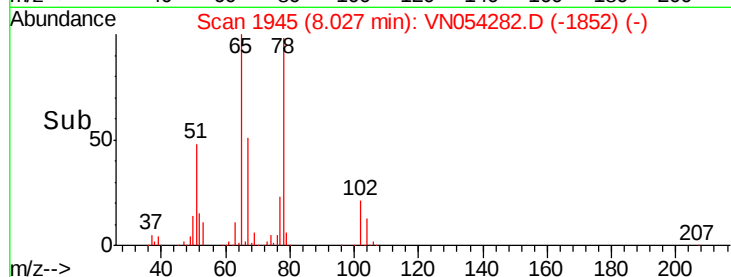
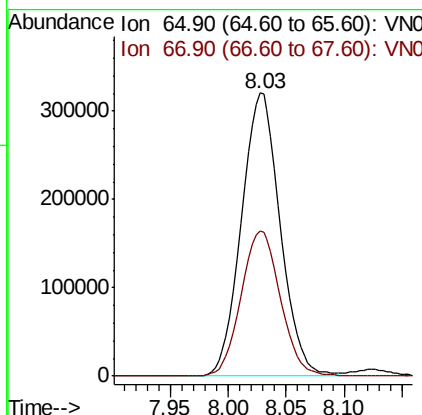
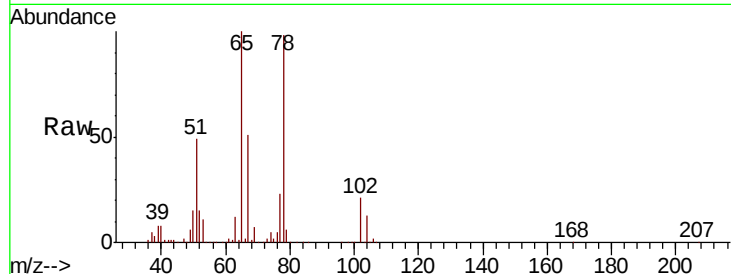
#33
 1,2-Dichloroethane-d4
 Concen: 52.431 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	746591		
67	52.0	0.0	104.6	

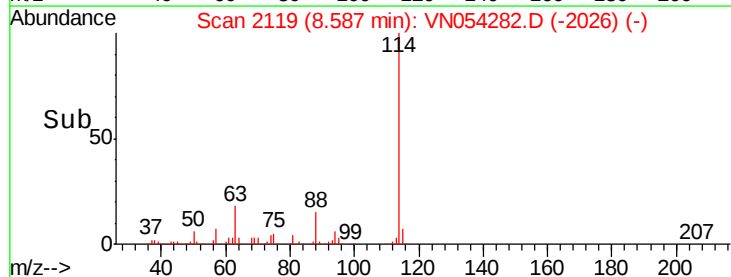
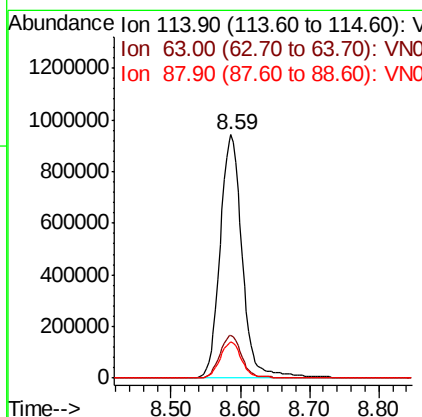
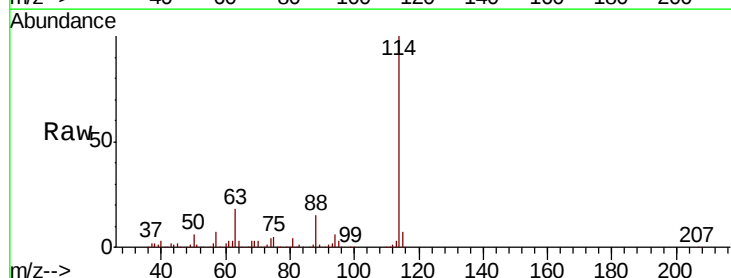
Manual Integrations
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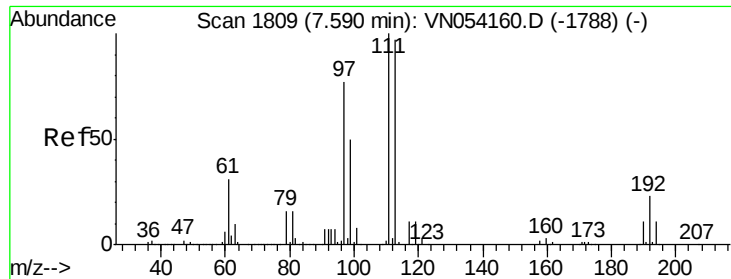
MMDadoda
 3/15/2019 10:14:27 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	2095240		
63	17.7	0.0	35.2	
88	14.9	0.0	30.2	





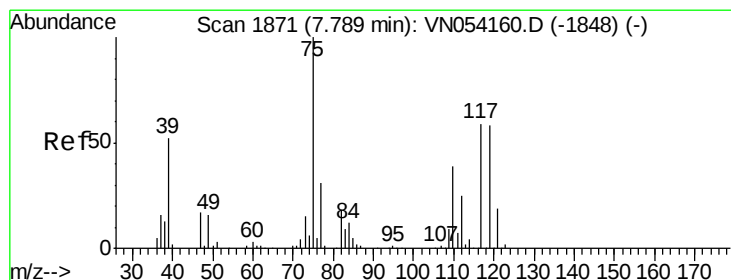
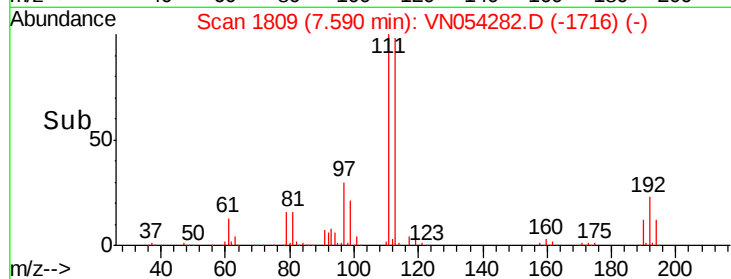
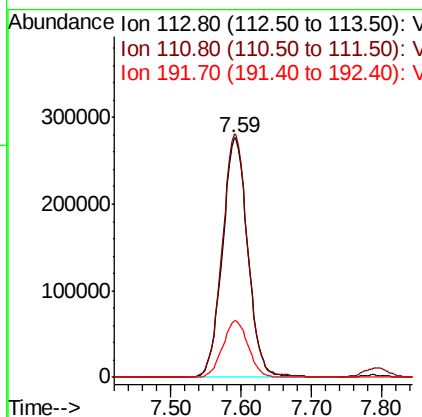
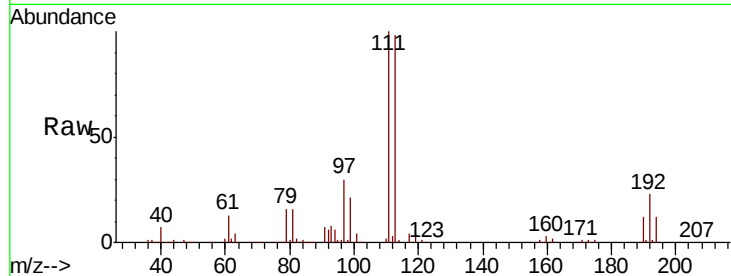
#35
 Dibromofluoromethane
 Concen: 51.337 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	693734		
111	101.9	82.2	123.4	
192	23.9	19.2	28.8	

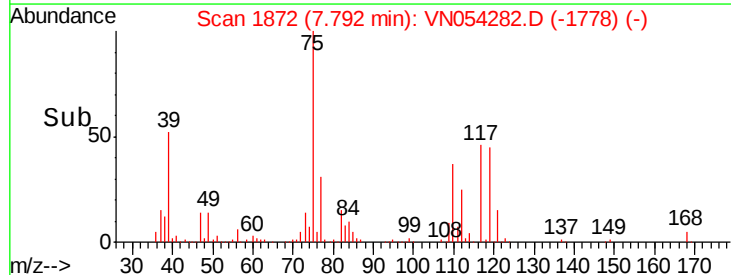
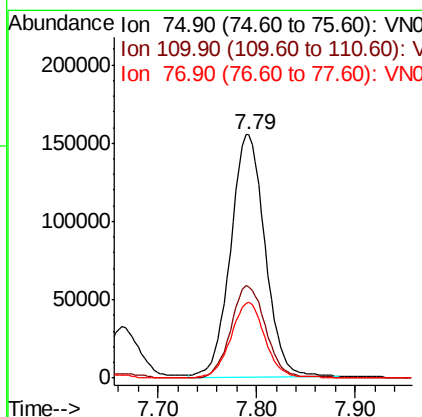
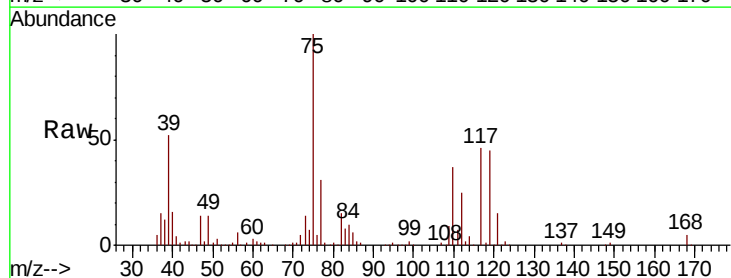
Manual Integrations
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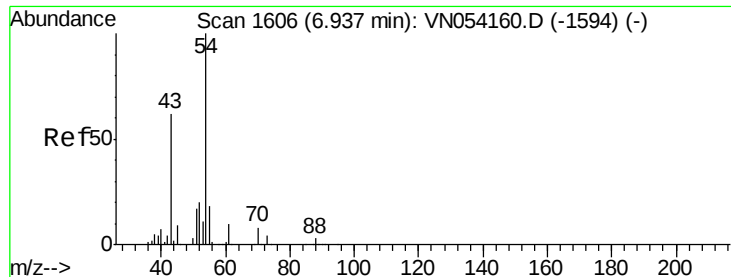
MMDadoda
 3/15/2019 10:14:27 AM



#36
 1,1-Dichloropropene
 Concen: 19.445 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	375200		
110	38.6	19.1	57.5	
77	31.4	25.0	37.4	





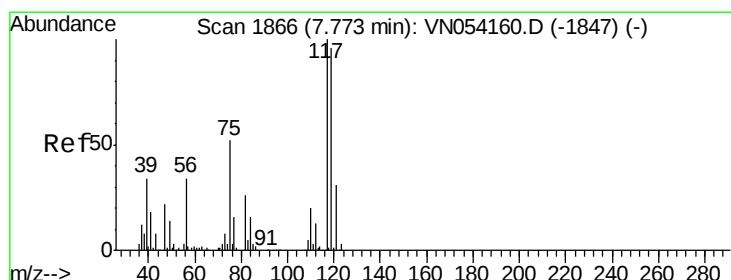
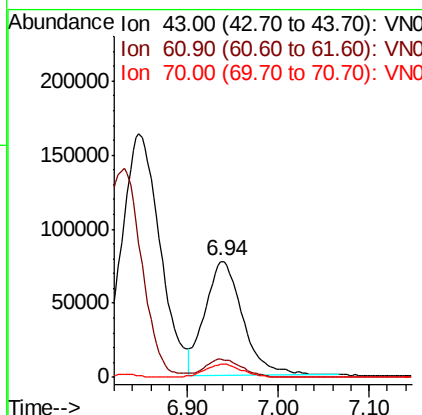
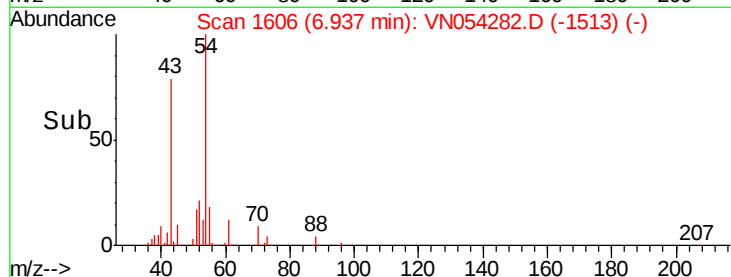
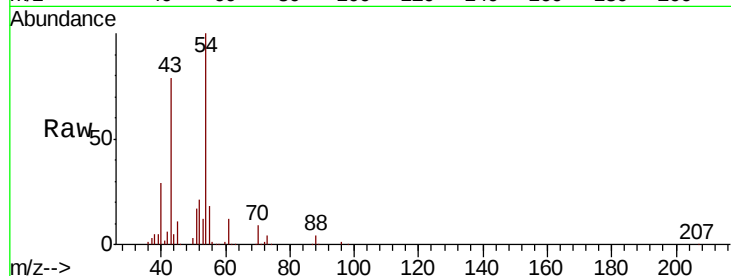
#37
Ethyl Acetate
Concen: 20.163 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Instrument :
MSVOA_N
ClientSampleId :
VN0314WBSD02

Tgt Ion	Ratio	Lower	Upper
43	100		
61	16.0	11.8	17.6
70	10.7	8.4	12.6

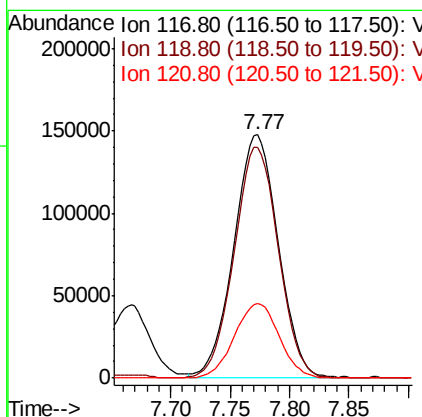
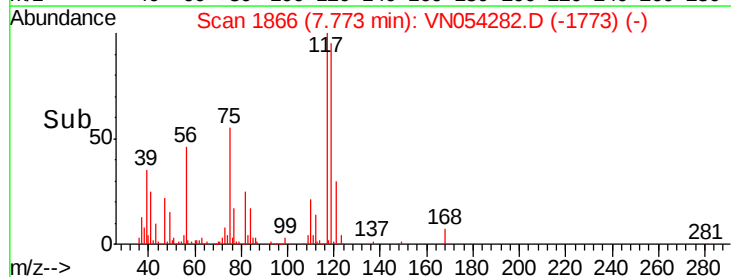
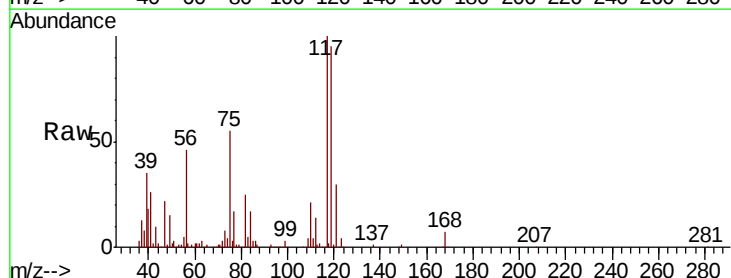
Manual Integrations
APPROVED

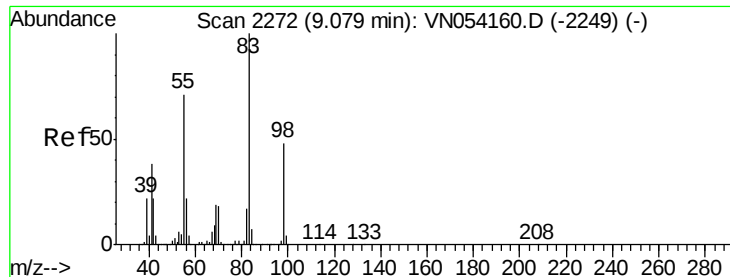
MMDadoda
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#38
Carbon Tetrachloride
Concen: 18.725 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.3	114.5
121	30.5	24.6	36.8





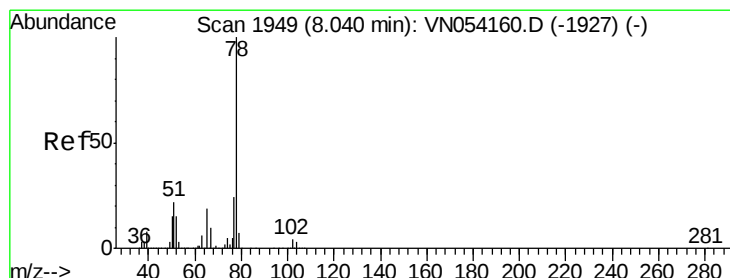
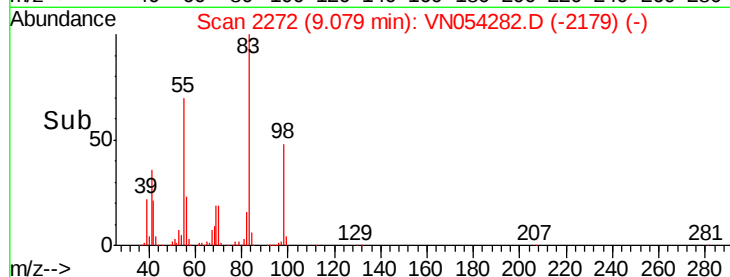
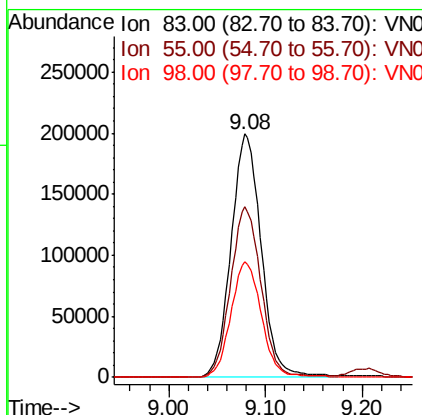
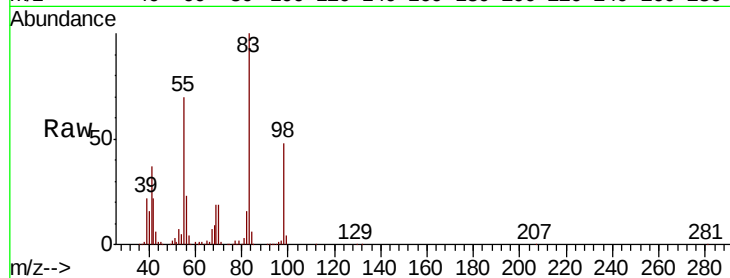
#39
Methylcyclohexane
Concen: 18.255 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Instrument :
MSVOA_N
ClientSampleId :
VN0314WBSD02

Tgt Ion	Ratio	Lower	Upper
83	100		
55	70.0	56.6	84.8
98	47.5	38.4	57.6

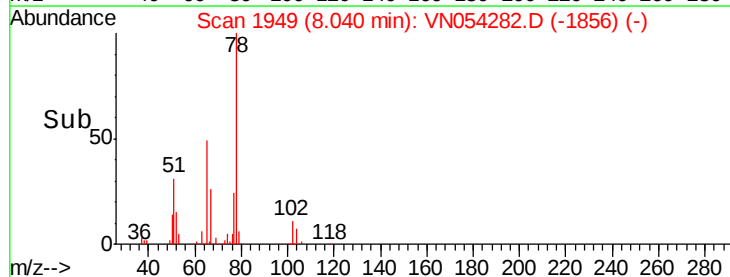
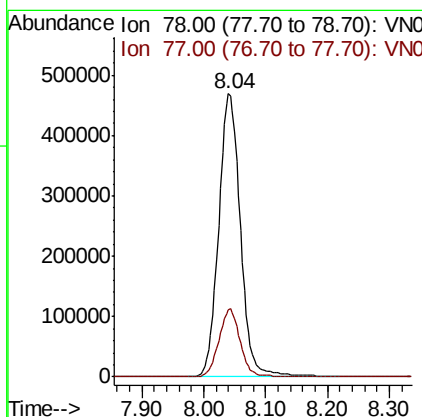
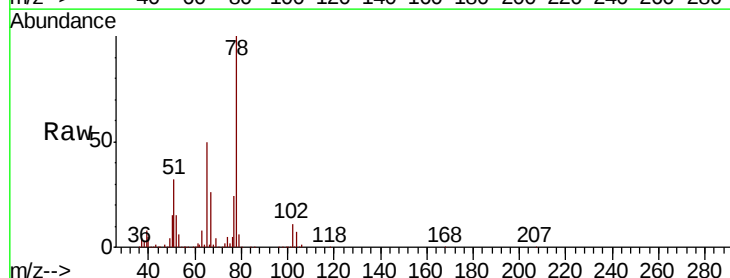
Manual Integrations
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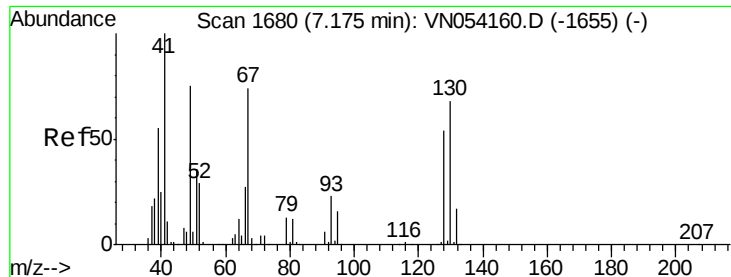
MMDadoda
3/15/2019 10:14:27 AM



#40
Benzene
Concen: 20.741 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.1	28.7





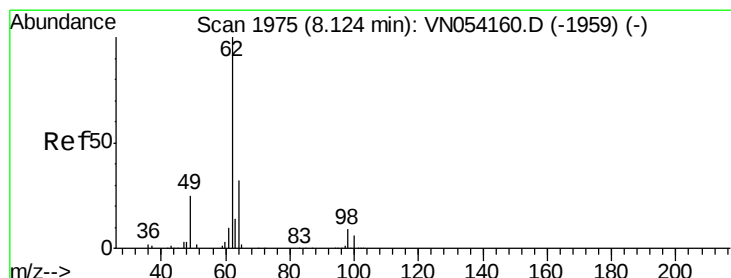
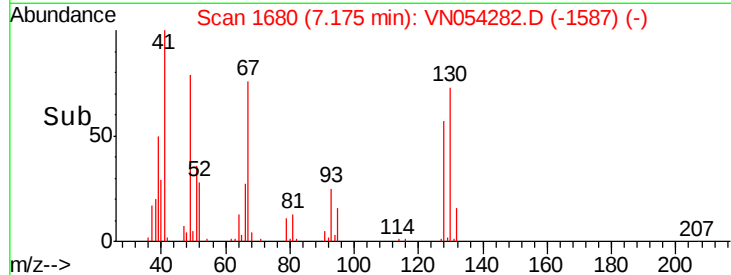
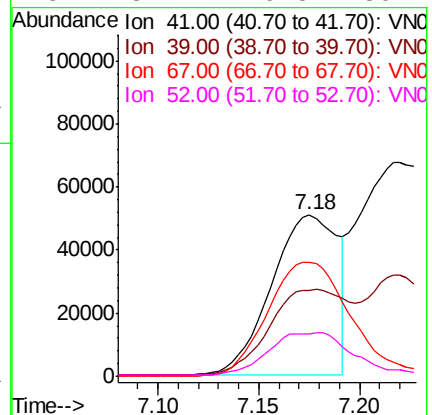
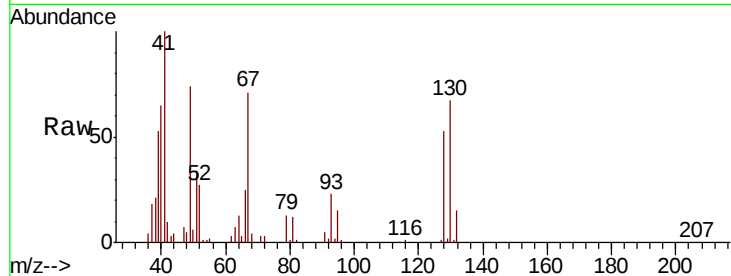
#41
Methacrylonitrile
Concen: 18.310 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Instrument :
MSVOA_N
ClientSampleID :
VN0314WBSD02

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	63.7	46.8	70.2	
67	90.0	67.0	100.4	
52	34.7	26.5	39.7	

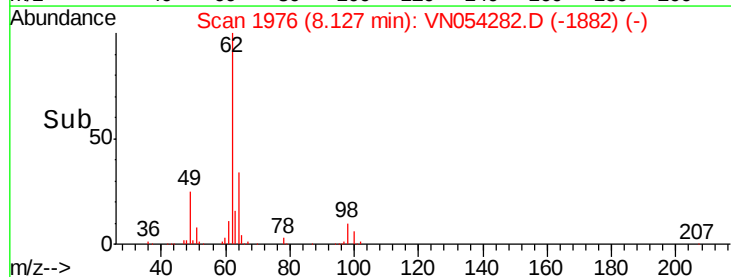
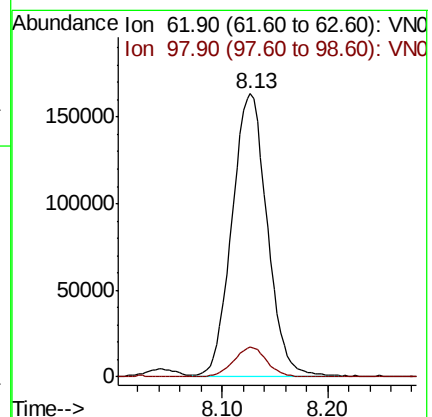
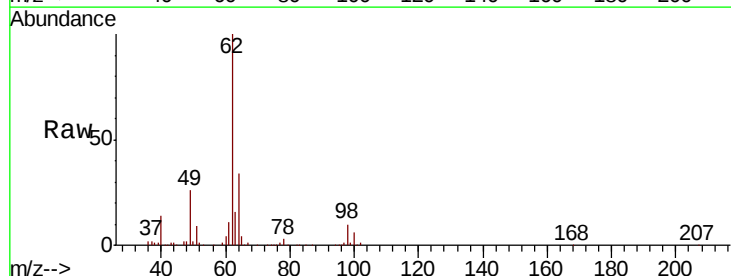
Manual Integrations
APPROVED

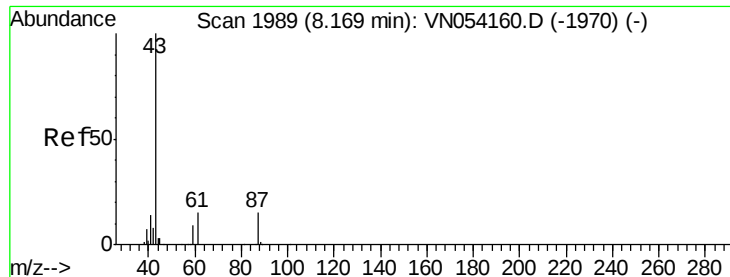
MMDadoda
3/15/2019 10:14:27 AM



#42
1,2-Dichloroethane
Concen: 20.209 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.0	0.0	18.4	





#43

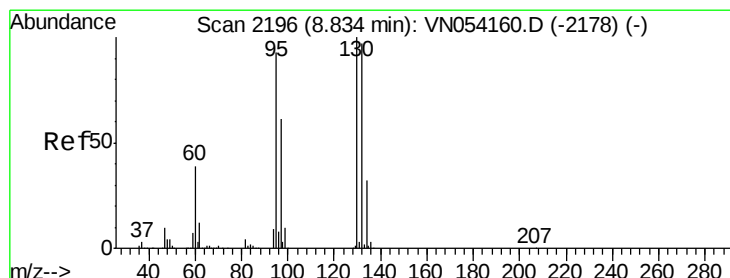
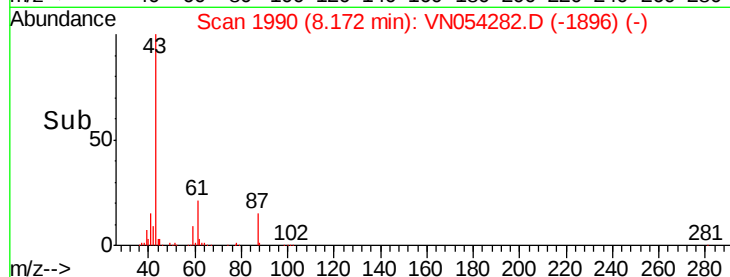
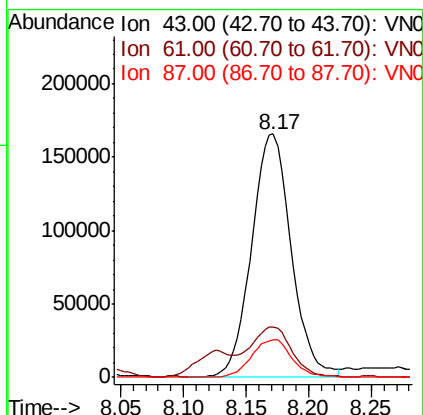
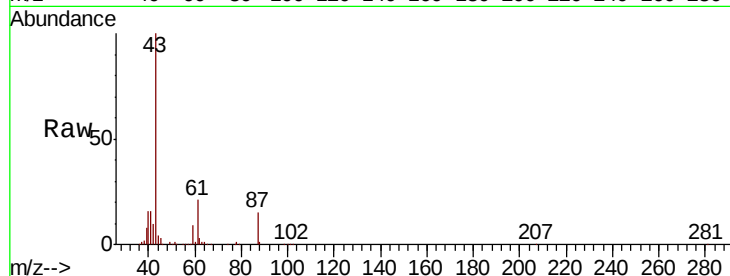
Isopropyl Acetate
 Concen: 18.643 ug/l
 RT: 8.17 min Scan# 1990
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBSD02

Tgt Ion	Ratio	Lower	Upper
43	100		
61	20.0	15.8	23.8
87	16.0	12.0	18.0

Manual Integrations
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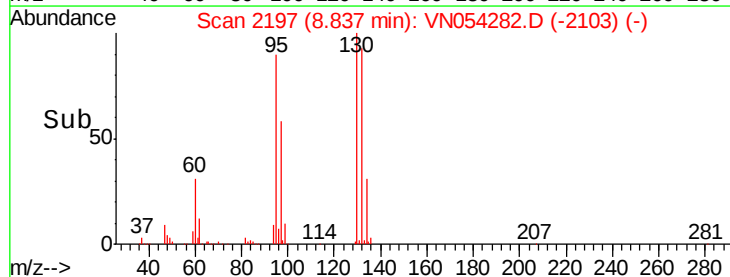
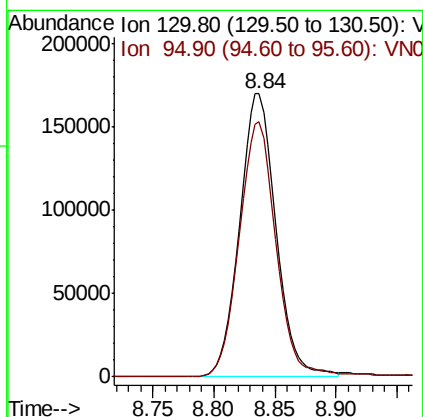
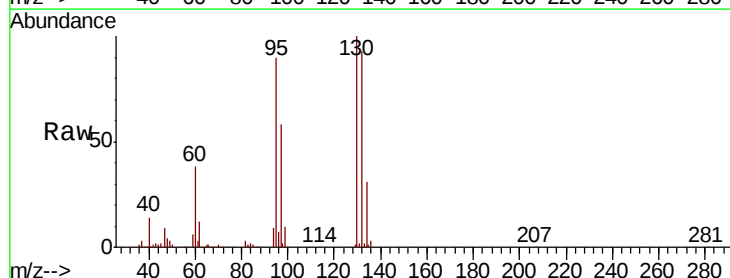
MMDadoda
 3/15/2019 10:14:27 AM

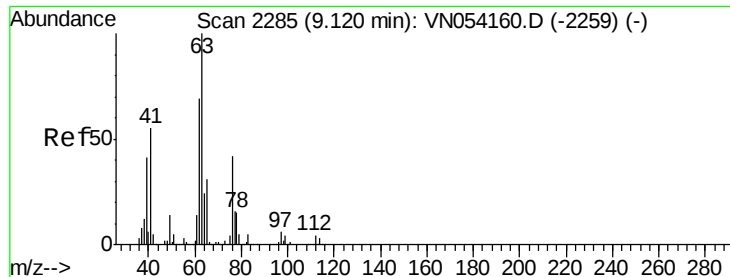


#44

Trichloroethene
 Concen: 20.353 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.0	0.0	185.2





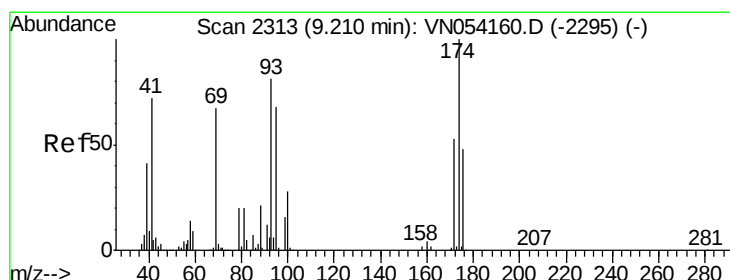
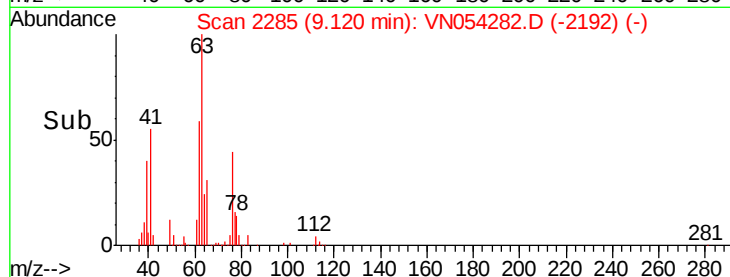
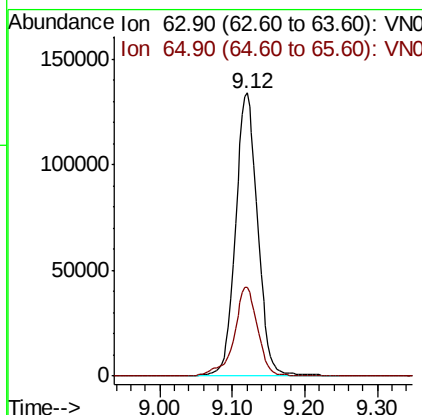
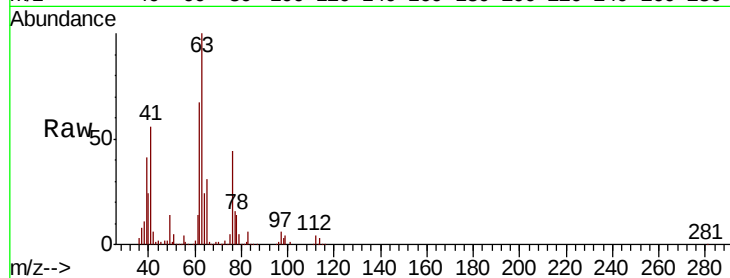
#45
 1,2-Dichloropropane
 Concen: 20.867 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBSD02

Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.5	25.0	37.6

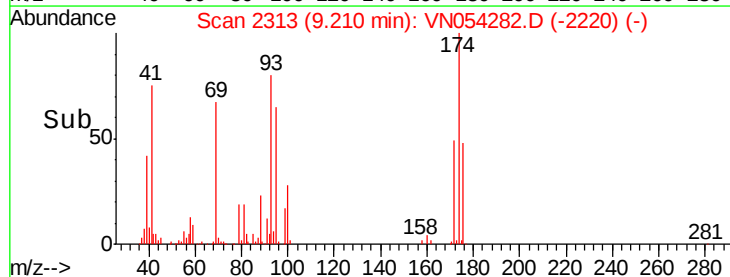
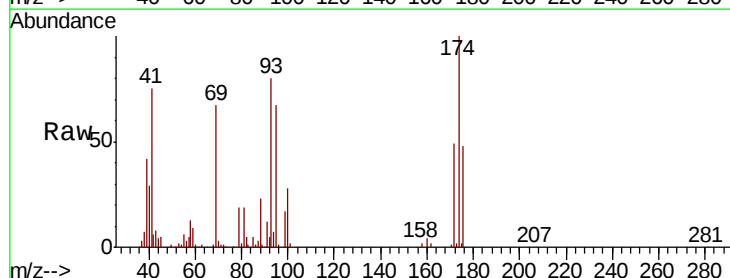
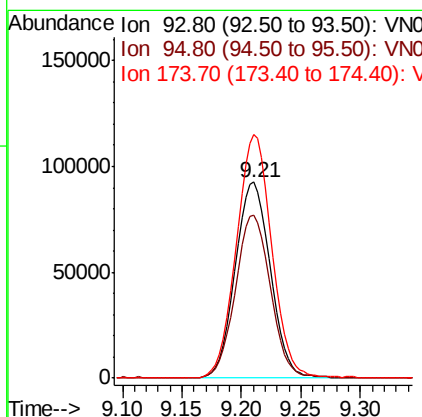
Manual Integrations
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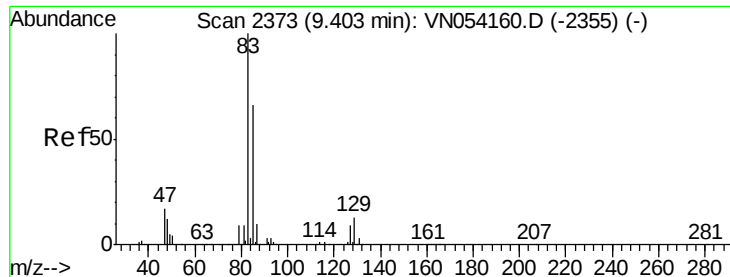
MMDadoda
 3/15/2019 10:14:27 AM



#46
 Dibromomethane
 Concen: 20.560 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.3	66.7	100.1
174	124.7	98.5	147.7





#47

Bromodichloromethane

Concen: 19.964 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

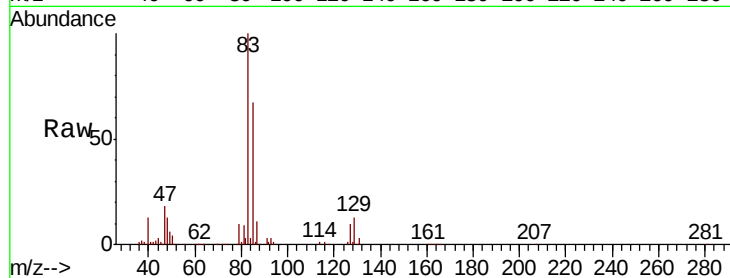
ClientSampleId :

VN0314WBSD02

Tgt Ion:	83	Resp:	370762
Ion Ratio	Lower	Upper	
83	100		
85	66.8	52.8	79.2
127	10.1	7.4	11.2

Manual Integrations
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3/15/2019 10:14:27 AM

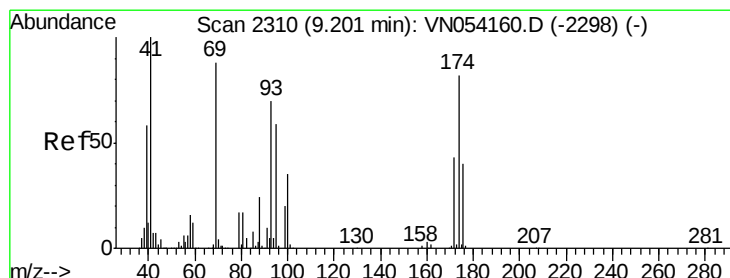
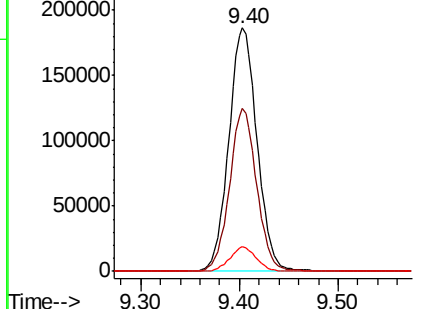
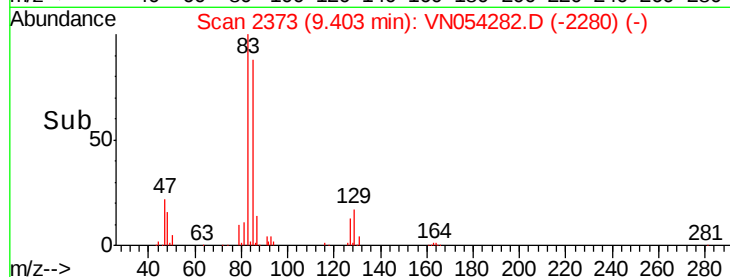


Abundance Ion 82.90 (82.60 to 83.60): VN054282.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN054282.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN054282.D (-2280) (-)

Time-->



#48

Methyl methacrylate

Concen: 20.418 ug/l

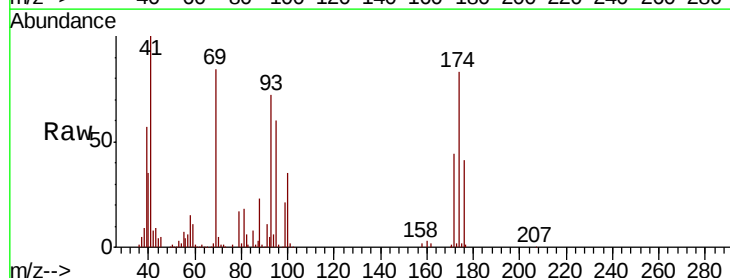
RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Tgt Ion:	41	Resp:	201646
Ion Ratio	Lower	Upper	
41	100		
69	87.8	72.6	108.8
39	58.3	47.5	71.3

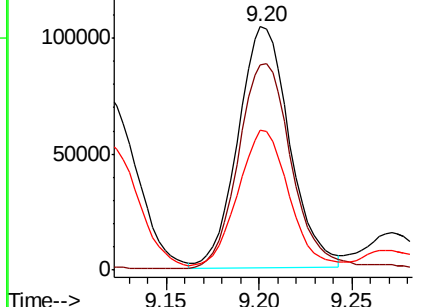
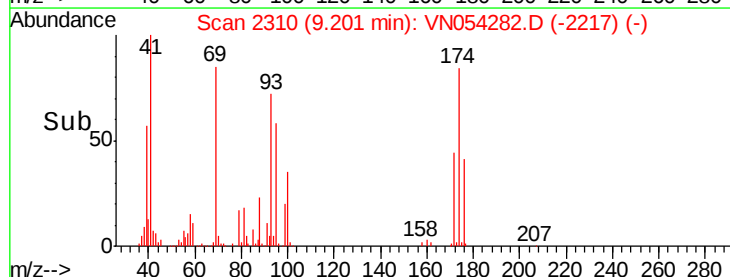


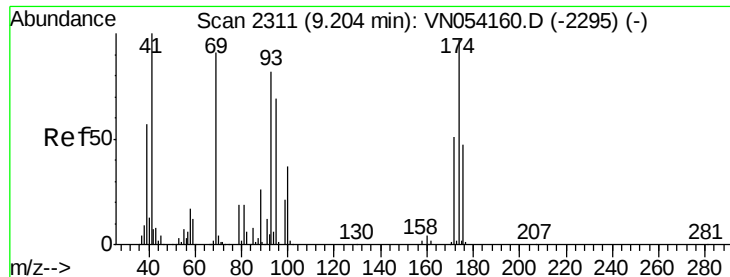
Abundance Ion 41.00 (40.70 to 41.70): VN054282.D (-2217) (-)

Ion 69.00 (68.70 to 69.70): VN054282.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN054282.D (-2217) (-)

Time-->





#49

1,4-Dioxane

Concen: 400.606 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

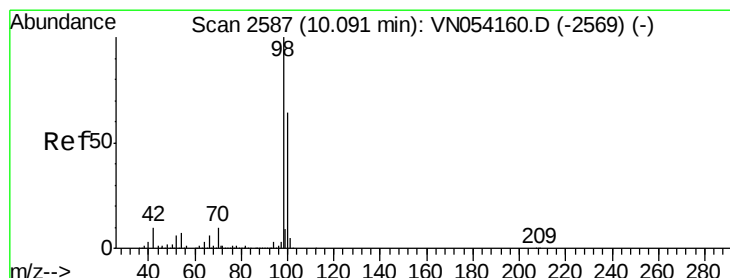
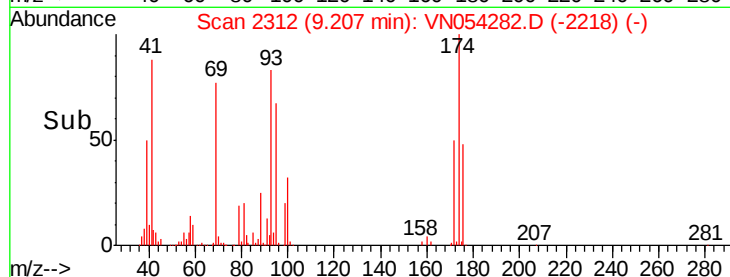
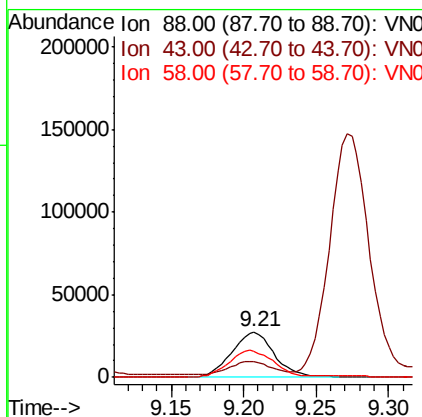
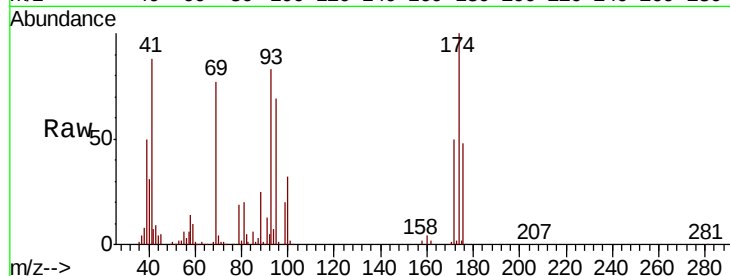
ClientSampleId :

VN0314WBSD02

Tgt Ion:	88	Resp:	55962
Ion	Ratio	Lower	Upper
88	100		
43	27.0	24.1	36.1
58	63.7	50.8	76.2

Manual Integrations
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#50

Toluene-d8

Concen: 49.598 ug/l

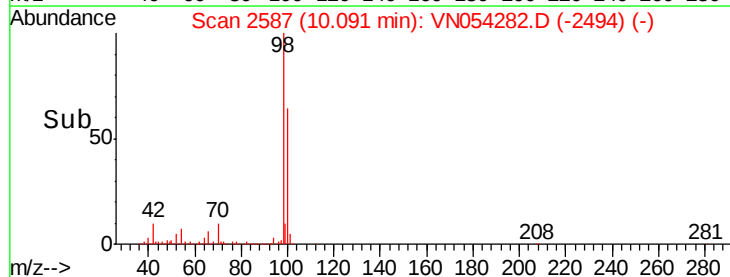
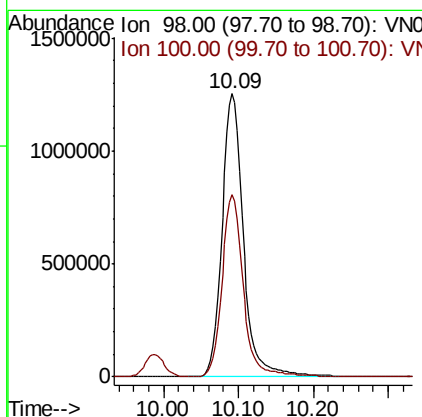
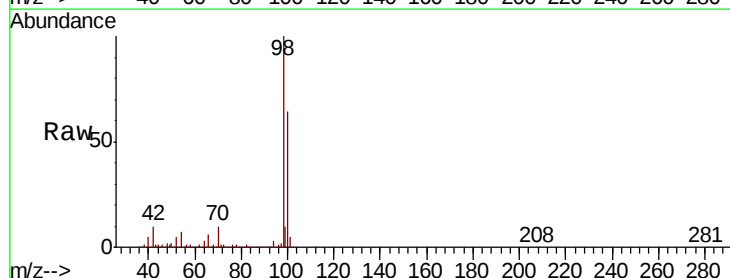
RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Tgt Ion:	98	Resp:	2475293
Ion	Ratio	Lower	Upper
98	100		
100	63.3	51.2	76.8





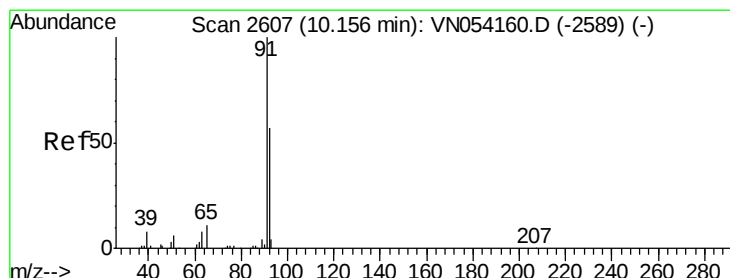
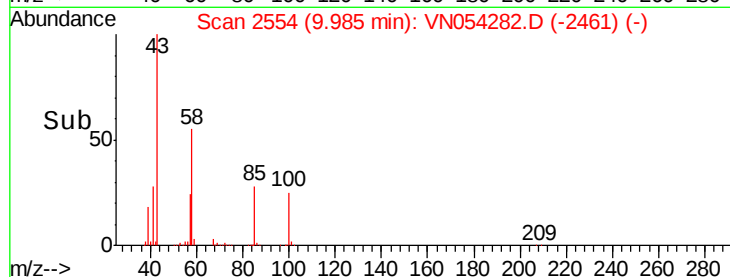
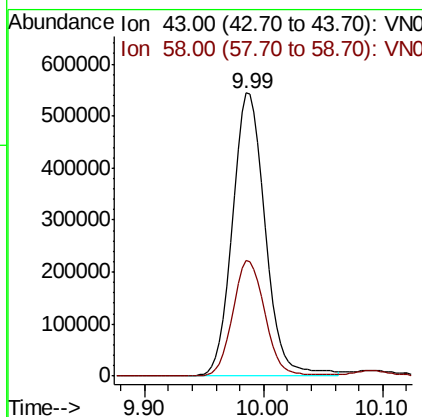
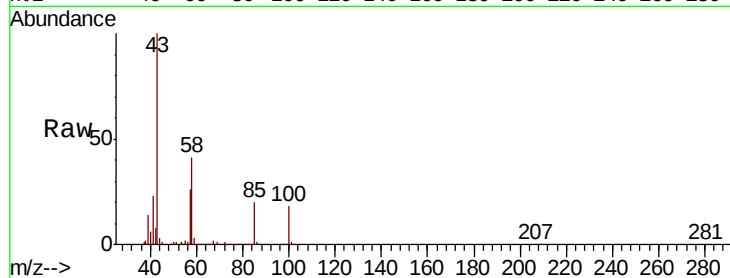
#51
4-Methyl-2-Pentanone
Concen: 100.309 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Instrument :
MSVOA_N
ClientSampleId :
VN0314WBSD02

Tgt Ion: 43 Resp: 1033045
Ion Ratio Lower Upper
43 100
58 40.7 31.8 47.6

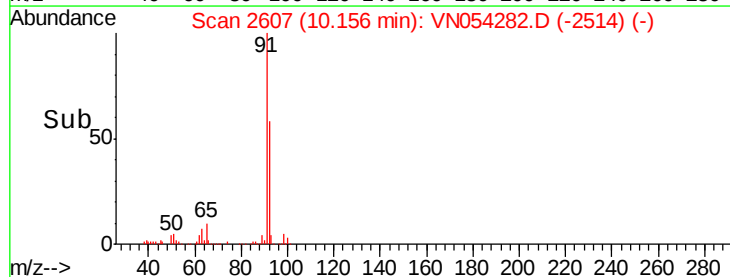
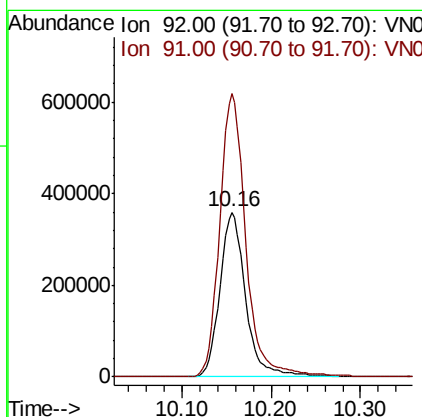
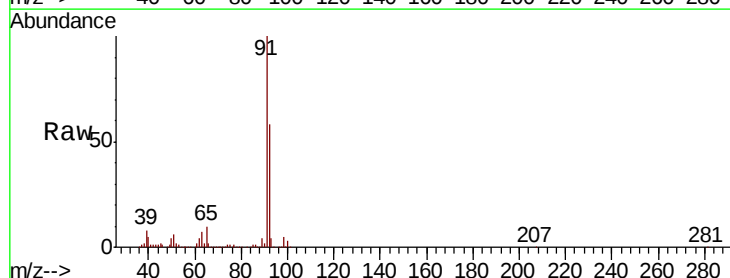
Manual Integrations
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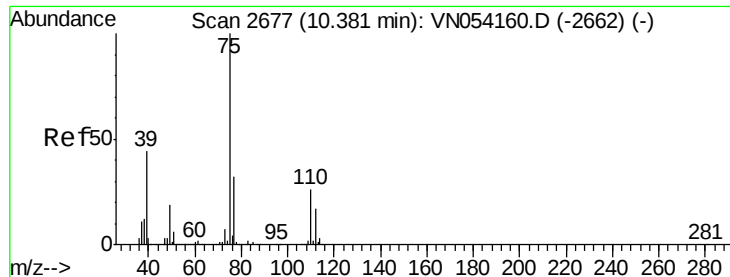
MMDadoda
3/15/2019 10:14:27 AM



#52
Toluene
Concen: 20.521 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Tgt Ion: 92 Resp: 718465
Ion Ratio Lower Upper
92 100
91 175.0 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 16.423 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBSD02

Tgt Ion: 75 Resp: 319351

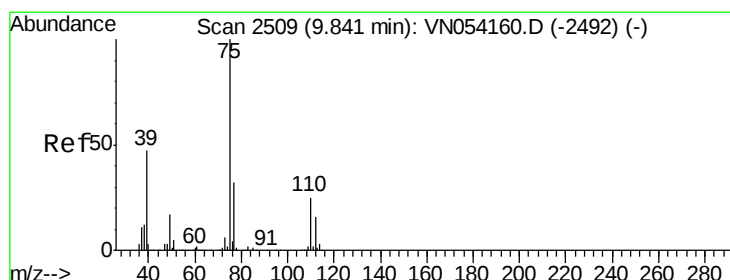
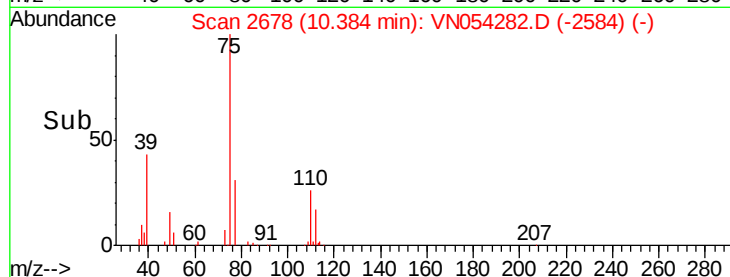
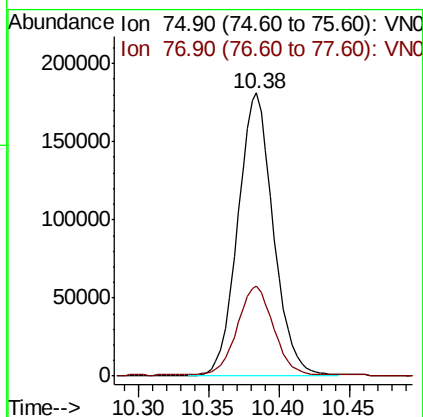
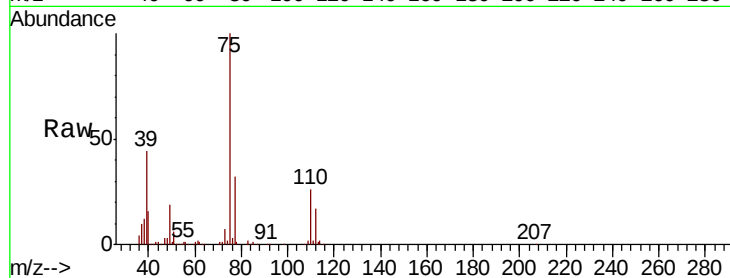
Ion Ratio Lower Upper

75 100

77 31.2 25.8 38.8

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:27 AM



#54

cis-1,3-Dichloropropene

Concen: 18.292 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

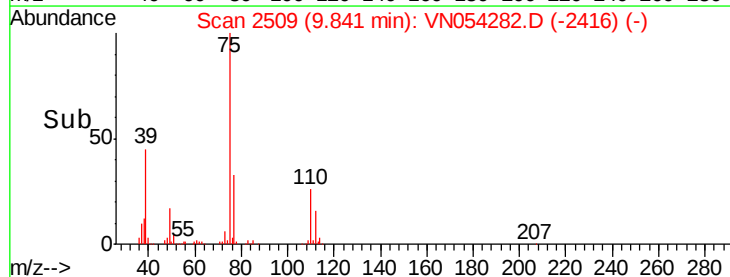
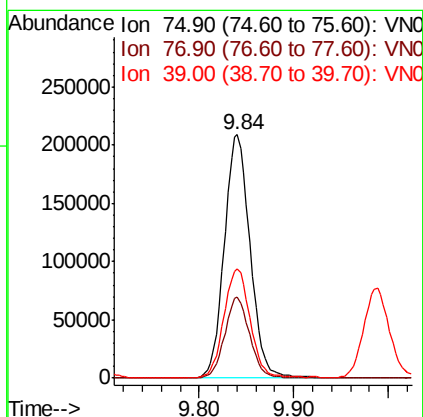
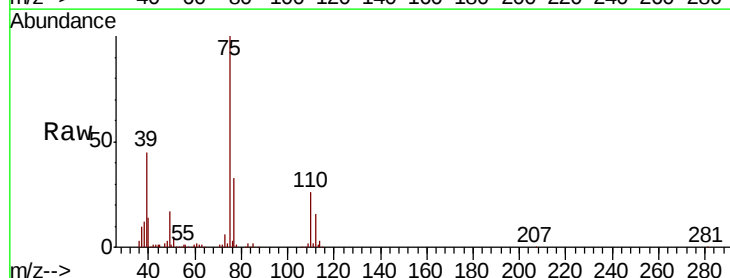
Tgt Ion: 75 Resp: 395860

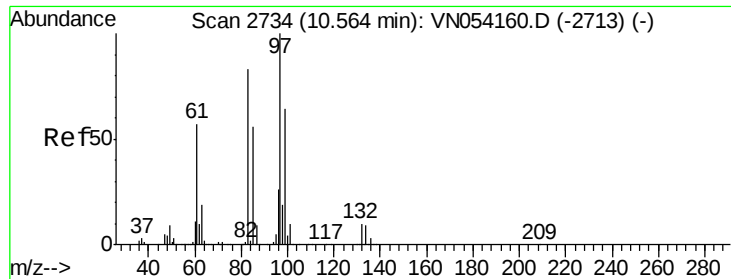
Ion Ratio Lower Upper

75 100

77 33.1 25.4 38.0

39 44.7 37.2 55.8





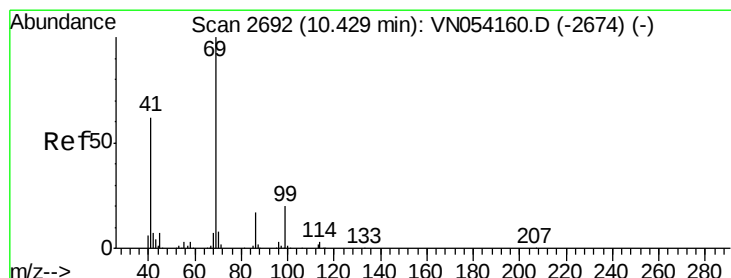
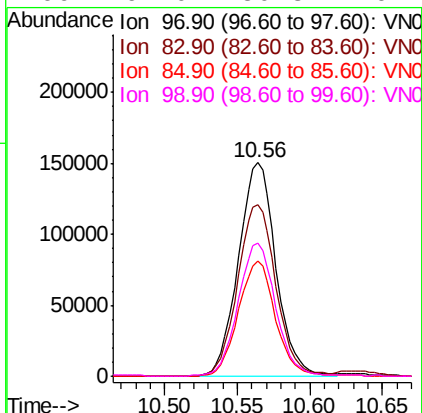
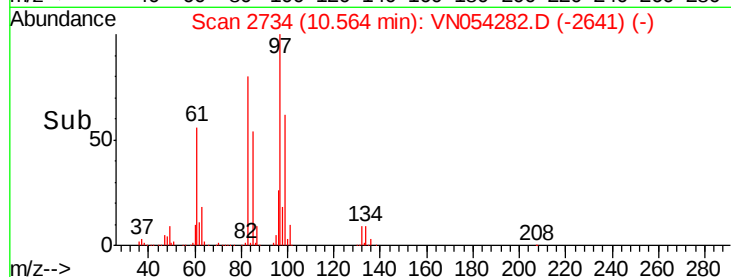
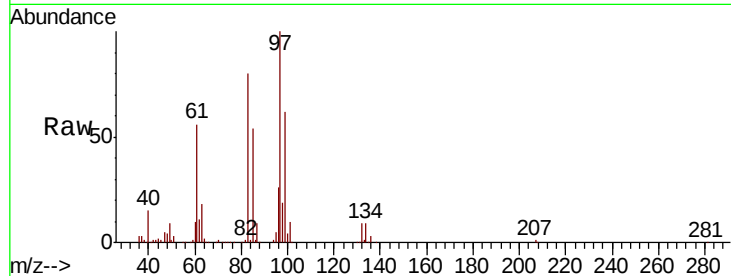
#55
 1,1,2-Trichloroethane
 Concen: 21.186 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	270836		
83	80.1	66.6	100.0	
85	53.8	44.4	66.6	
99	62.0	50.8	76.2	

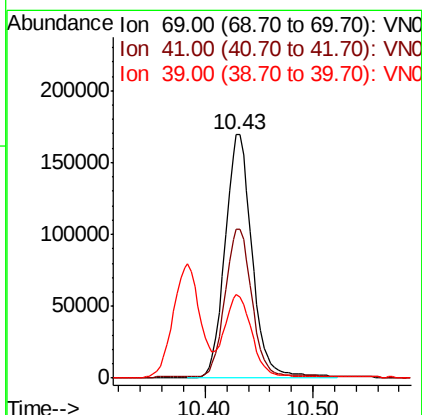
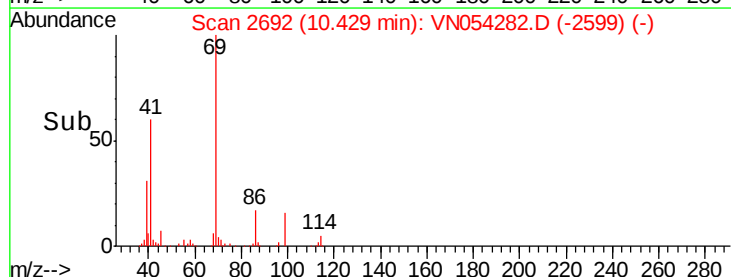
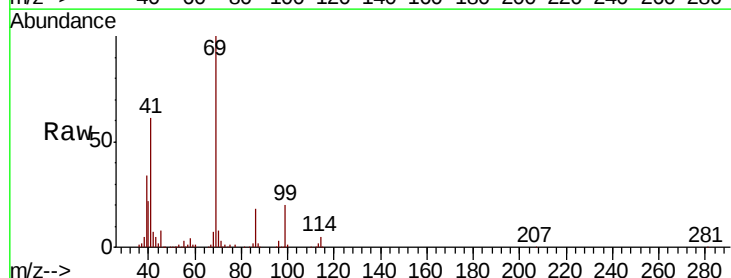
Manual Integrations
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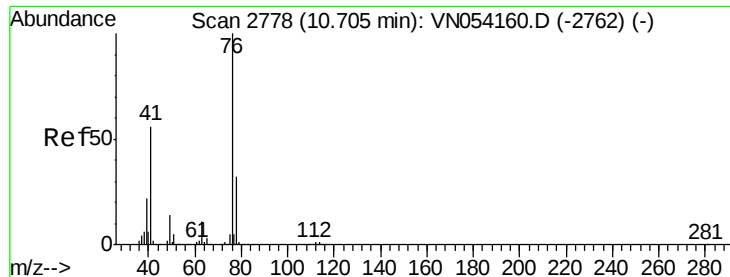
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 3/15/2019 10:14:27 AM



#56
 Ethyl methacrylate
 Concen: 19.540 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	297841		
41	60.1	49.4	74.2	
39	34.1	28.3	42.5	





#57

1,3-Dichloropropane

Concen: 20.789 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

ClientSampled :

VN0314WBSD02

Tgt Ion: 76 Resp: 434554

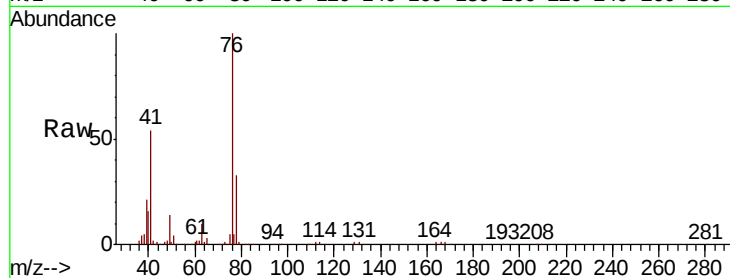
Ion Ratio Lower Upper

76 100

78 32.5 25.7 38.5

Manual Integrations
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MMDadoda
3/15/2019 10:14:27 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

250000

200000

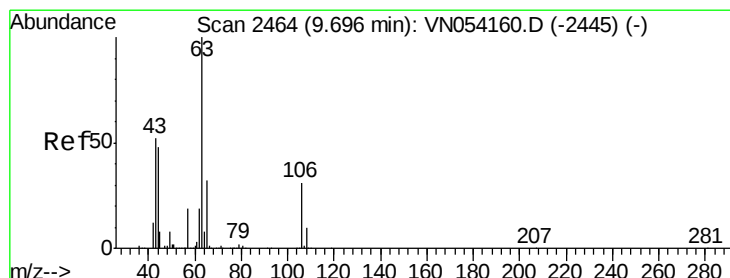
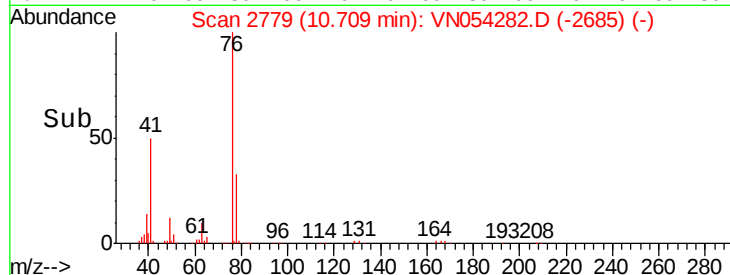
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 99.345 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054282.D

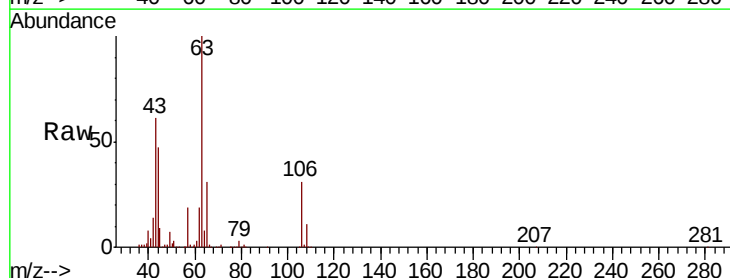
Acq: 15 Mar 2019 1:21

Tgt Ion: 63 Resp: 585068

Ion Ratio Lower Upper

63 100

106 31.0 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

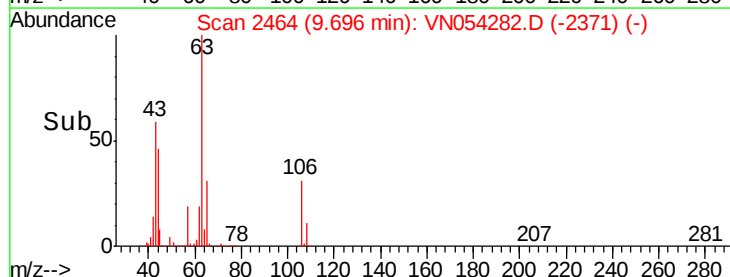
300000

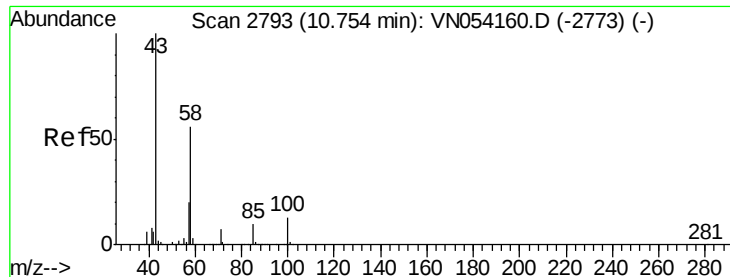
200000

100000

0

Time-->





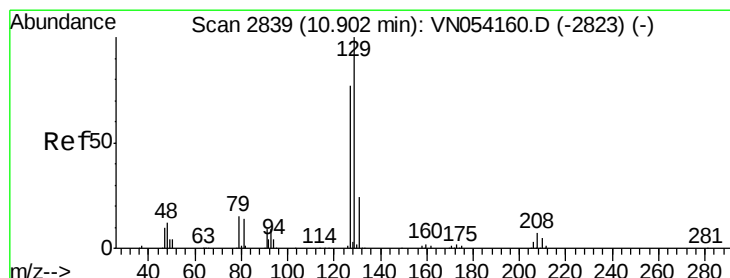
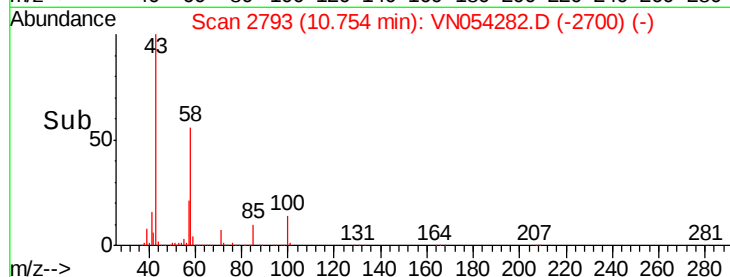
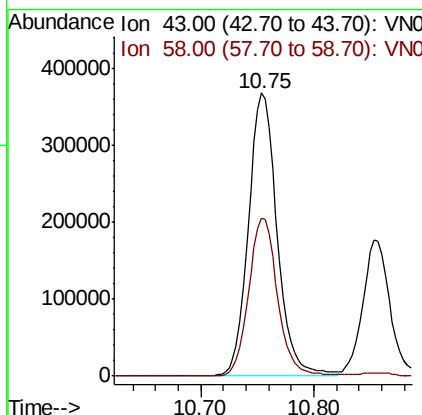
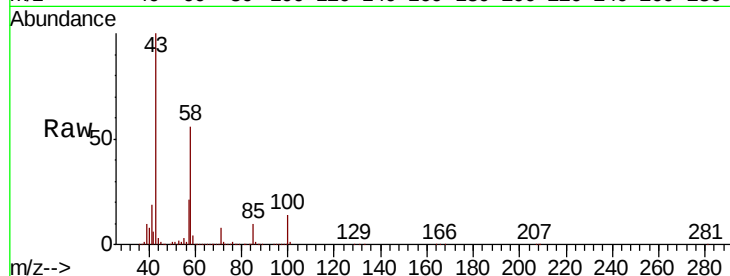
#59
2-Hexanone
Concen: 94.398 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Instrument :
MSVOA_N
ClientSampleId :
VN0314WBSD02

Tgt Ion: 43 Resp: 646877
Ion Ratio Lower Upper
43 100
58 56.5 28.0 83.9

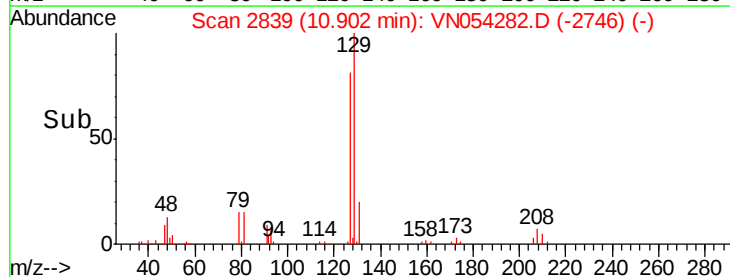
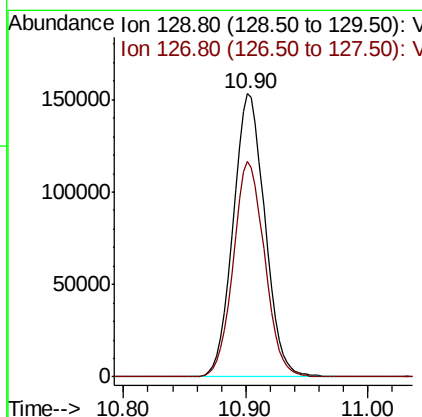
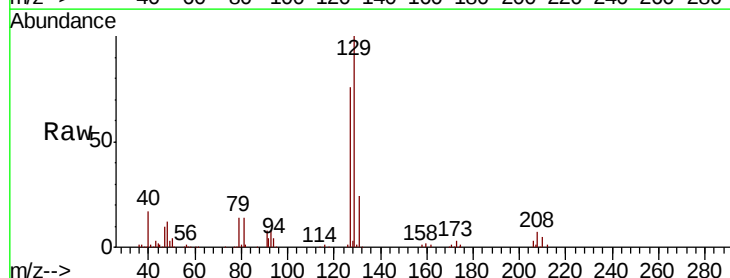
Manual Integrations
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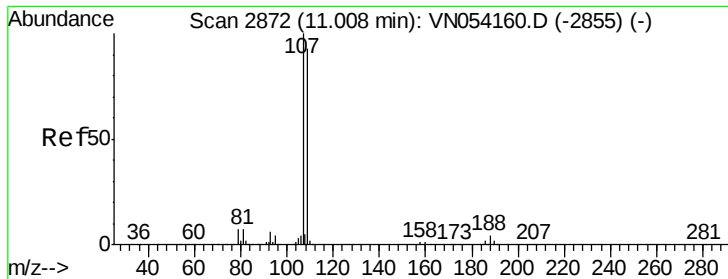
MMDadoda
3/15/2019 10:14:27 AM



#60
Dibromochloromethane
Concen: 19.229 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Tgt Ion: 129 Resp: 276675
Ion Ratio Lower Upper
129 100
127 75.1 38.6 115.8





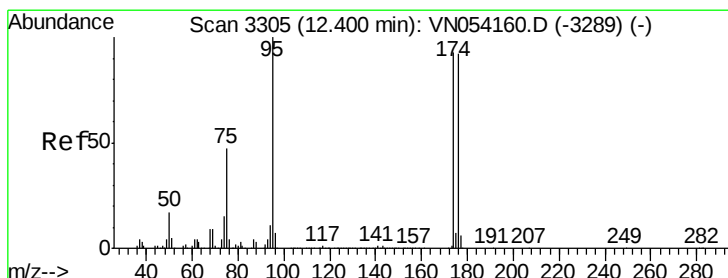
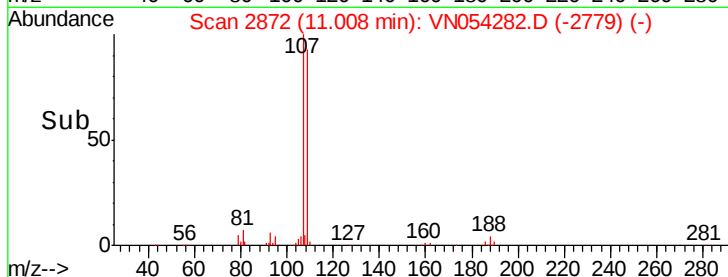
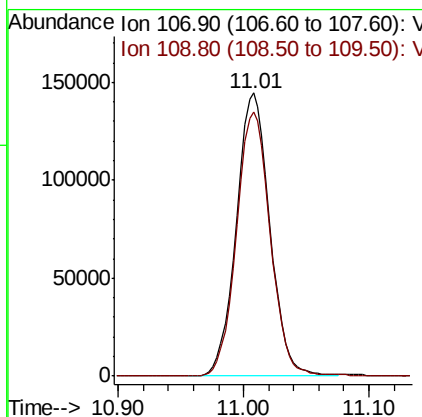
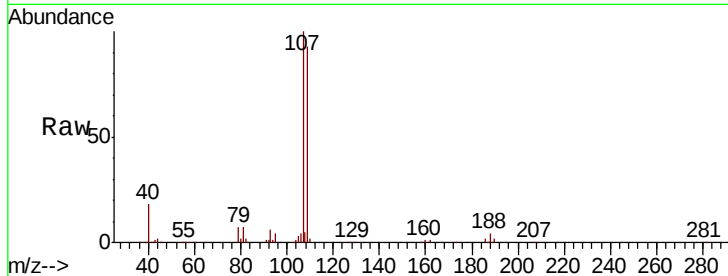
#61
 1,2-Dibromoethane
 Concen: 20.640 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	268136		
109	93.9	75.9	113.9	

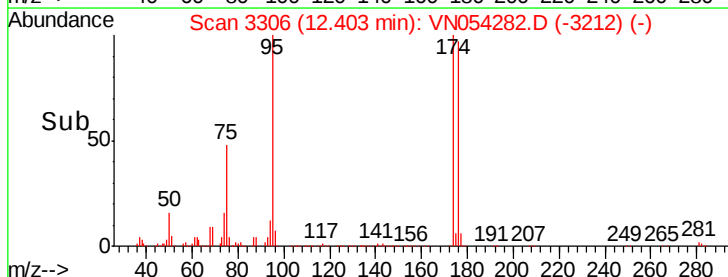
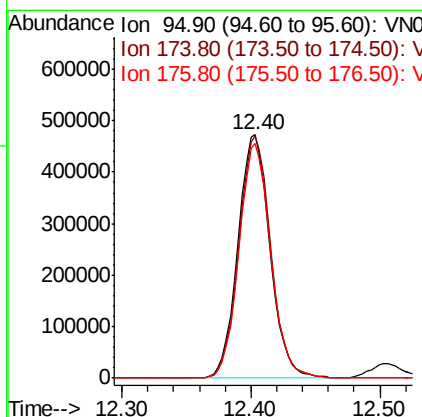
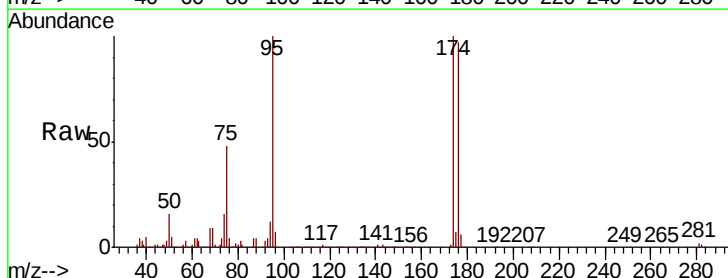
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 3/15/2019 10:14:27 AM



#62
 4-Bromofluorobenzene
 Concen: 46.745 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	816283		
174	99.0	0.0	191.0	
176	95.3	0.0	187.4	





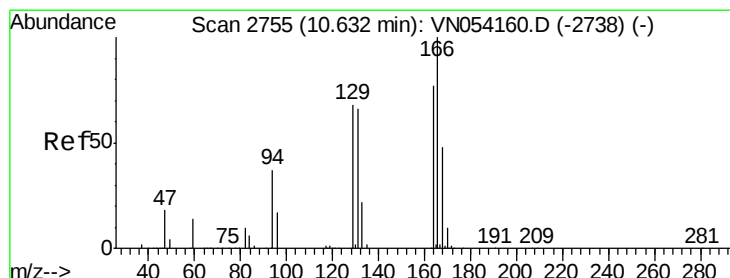
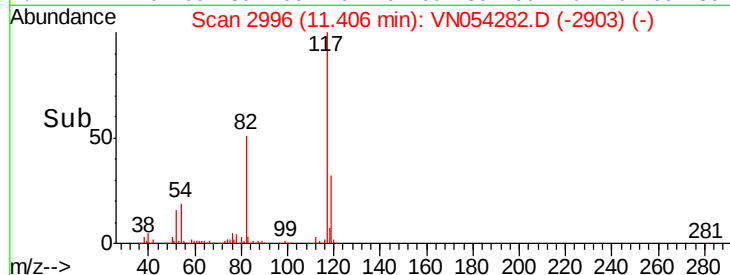
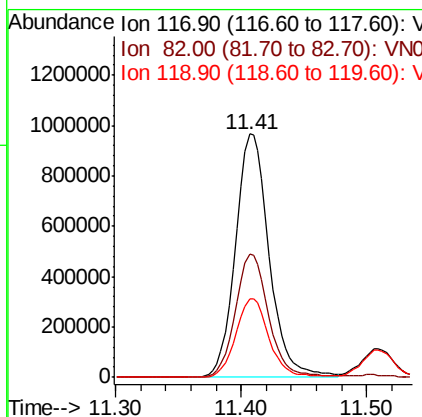
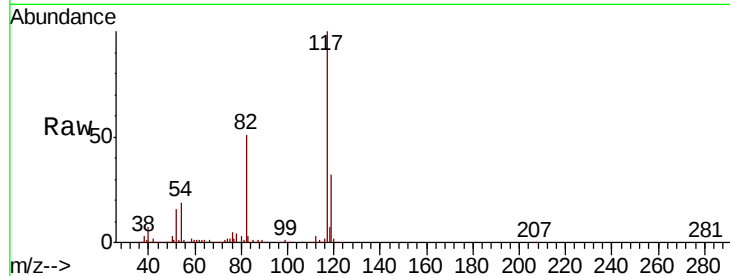
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Instrument :
MSVOA_N
ClientSampleId :
VN0314WBSD02

Tgt Ion:117 Resp: 1804624
Ion Ratio Lower Upper
117 100
82 50.6 40.0 60.0
119 32.0 25.8 38.6

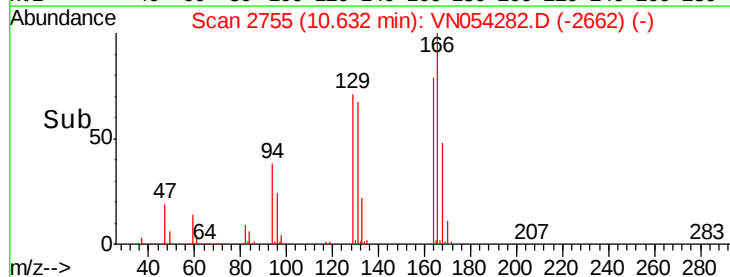
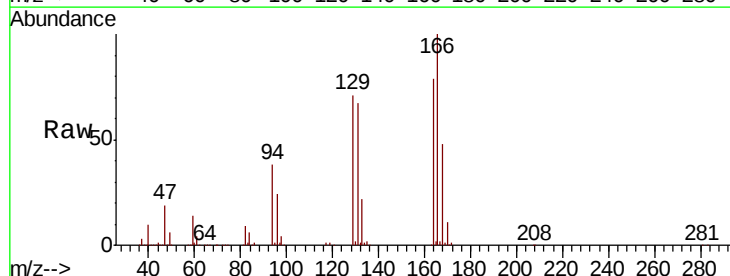
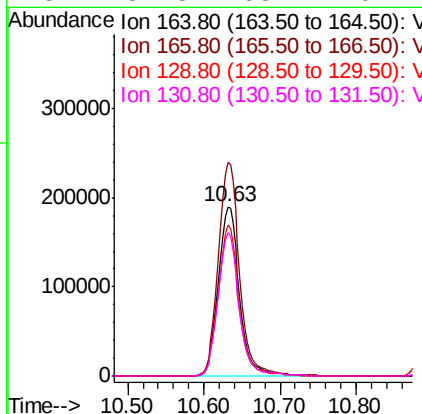
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#64
Tetrachloroethene
Concen: 21.024 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Tgt Ion:164 Resp: 366824
Ion Ratio Lower Upper
164 100
166 126.0 103.9 155.9
129 89.3 71.1 106.7
131 84.8 68.2 102.4





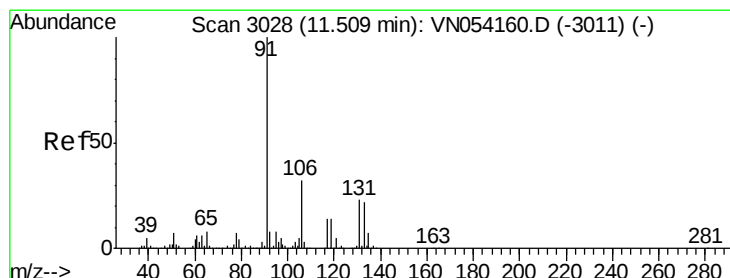
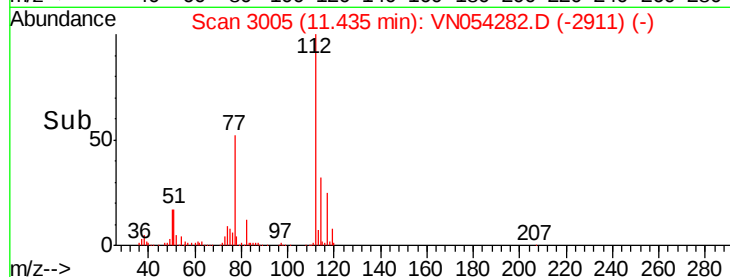
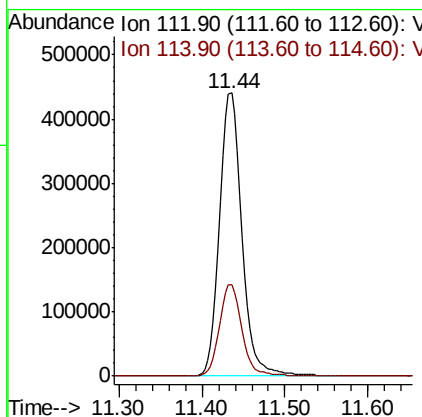
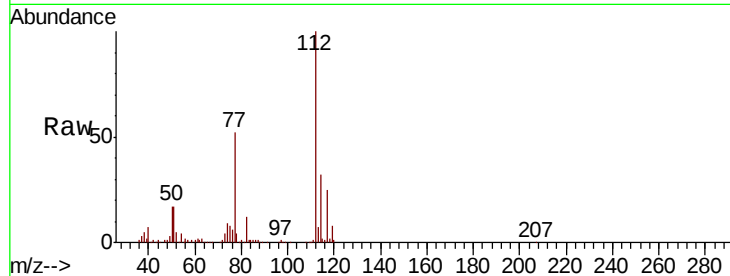
#65
Chlorobenzene
Concen: 20.742 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Instrument :
MSVOA_N
ClientSampled :
VN0314WBSD02

Tgt Ion:112 Resp: 821887
Ion Ratio Lower Upper
112 100
114 32.1 25.9 38.9

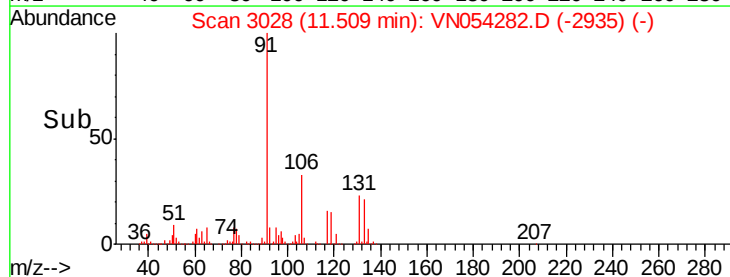
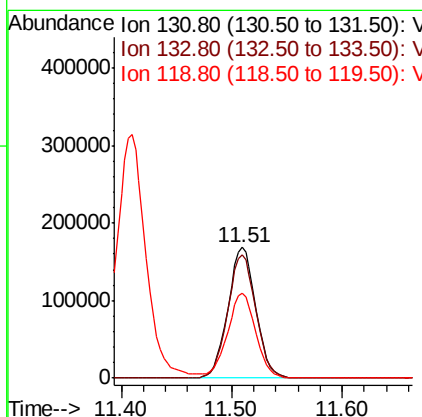
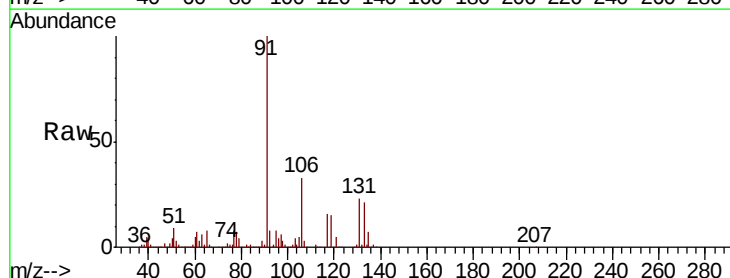
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.429 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Tgt Ion:131 Resp: 294060
Ion Ratio Lower Upper
131 100
133 95.7 47.6 142.9
119 66.5 32.4 97.0





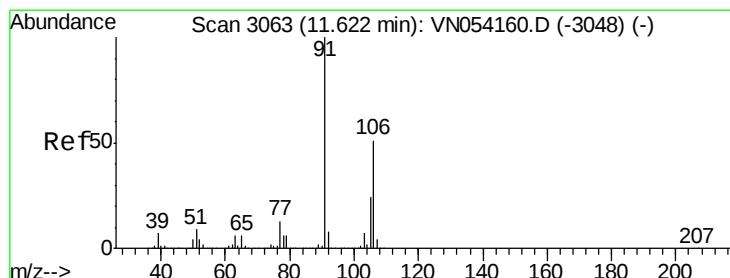
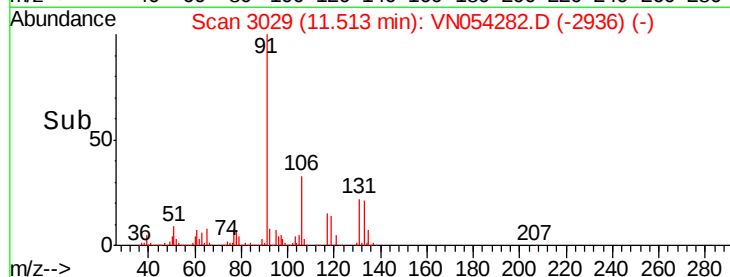
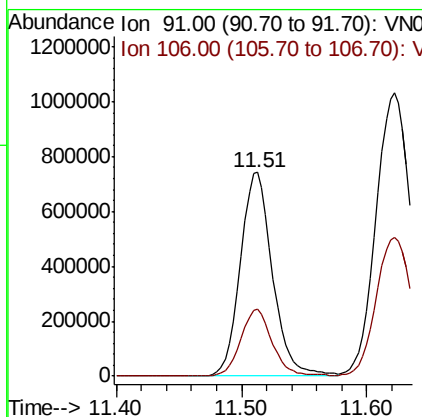
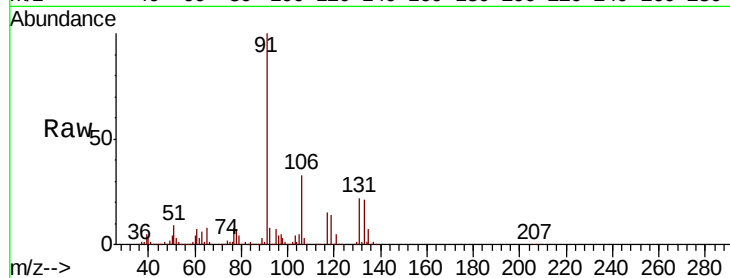
#67
Ethyl Benzene
Concen: 20.210 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Instrument :
MSVOA_N
ClientSampleId :
VN0314WBSD02

Tgt Ion: 91 Resp: 1327479
Ion Ratio Lower Upper
91 100
106 32.9 25.5 38.3

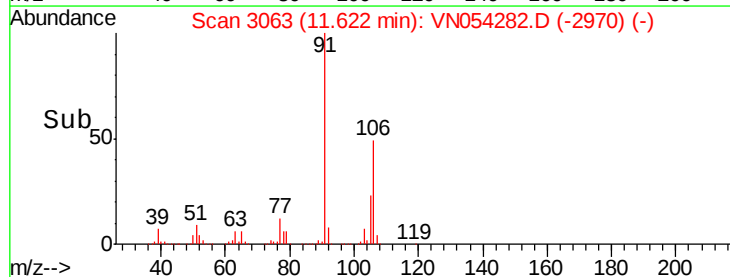
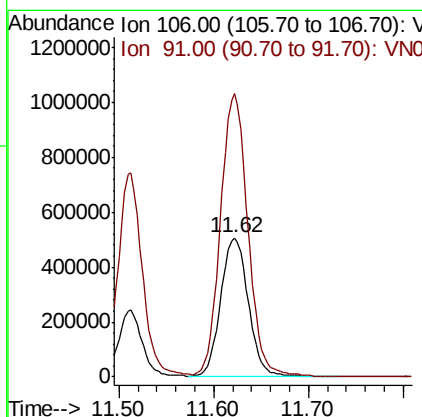
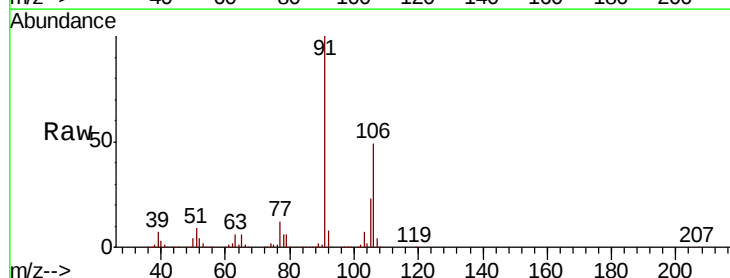
Manual Integrations
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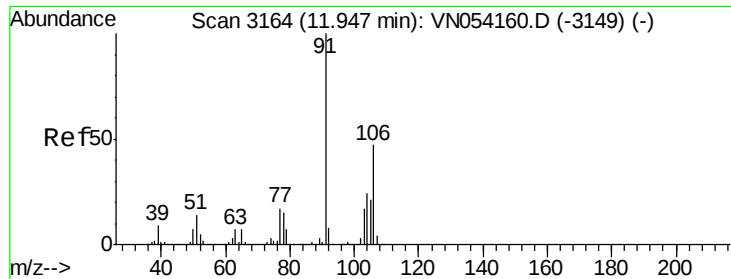
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#68
m/p-Xylenes
Concen: 40.326 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Tgt Ion: 106 Resp: 1035278
Ion Ratio Lower Upper
106 100
91 201.3 159.4 239.2





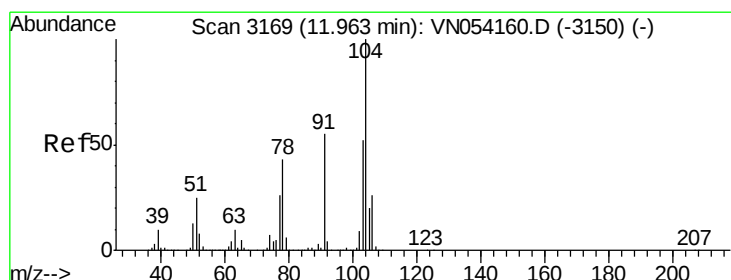
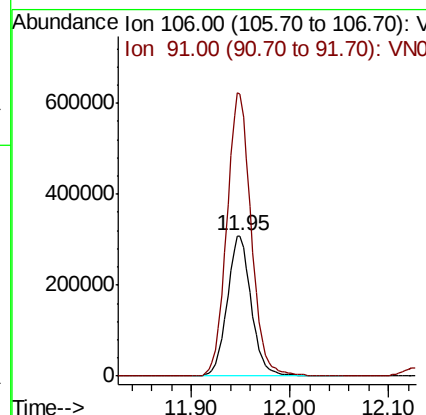
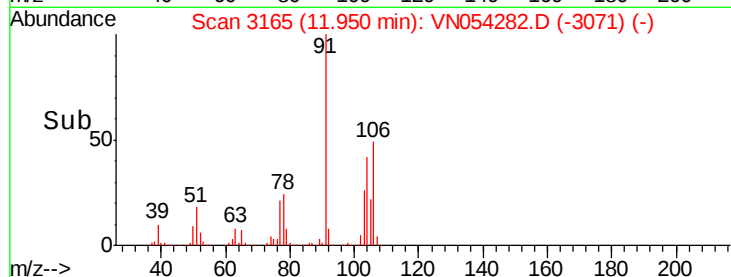
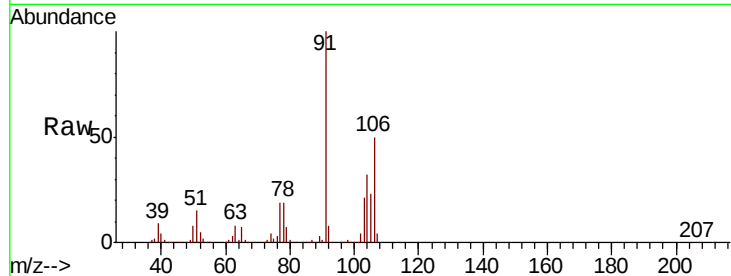
#69
o-Xylene
Concen: 21.067 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Instrument :
MSVOA_N
ClientSampleId :
VN0314WBSD02

Tgt Ion:106 Resp: 527221
Ion Ratio Lower Upper
106 100
91 205.3 105.7 317.1

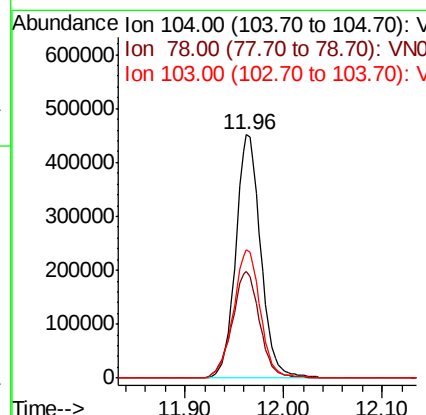
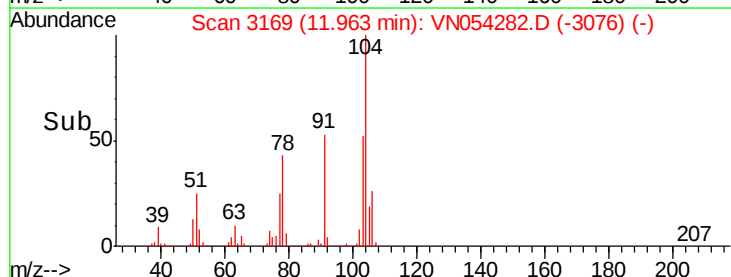
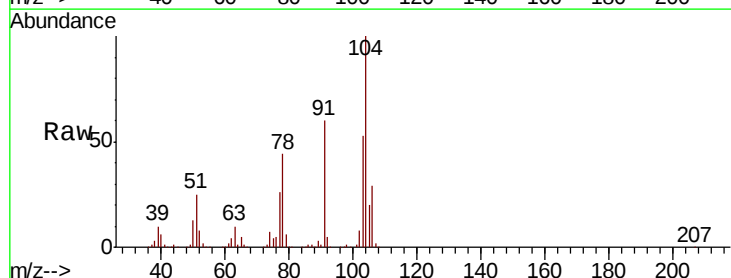
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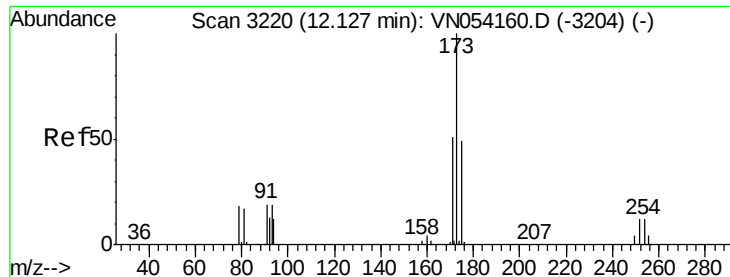
MMDadoda
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#70
Styrene
Concen: 20.290 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Tgt Ion:104 Resp: 796395
Ion Ratio Lower Upper
104 100
78 48.2 38.2 57.2
103 56.8 44.4 66.6





#71

Bromoform

Concen: 17.535 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

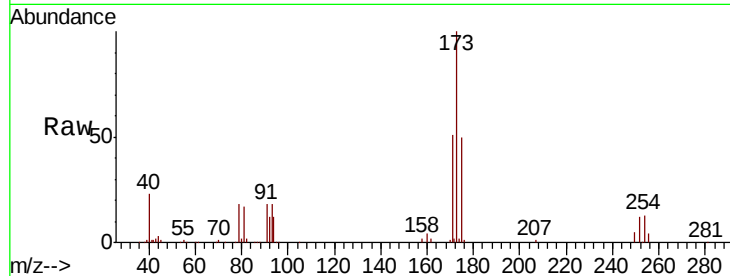
ClientSampled :

VN0314WBSD02

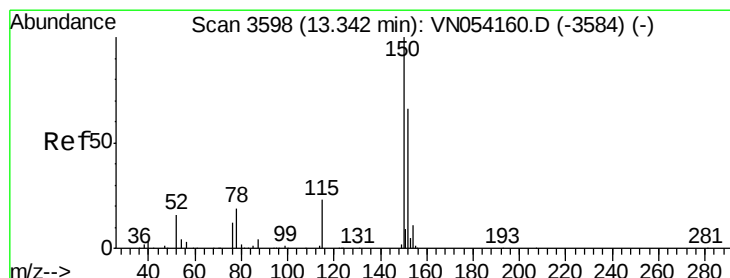
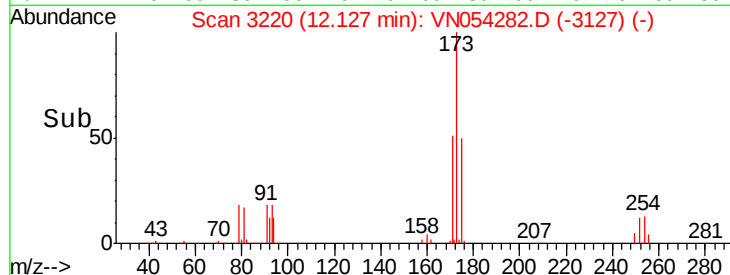
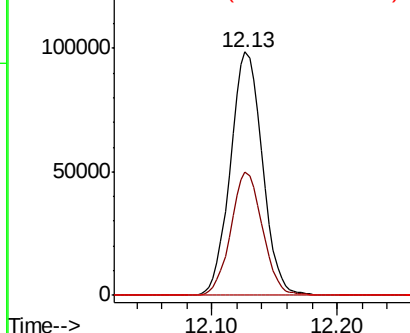
Tgt Ion	Ratio	Lower	Upper
173	100		
175	50.1	24.4	73.2
254	0.0	0.1	0.1

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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

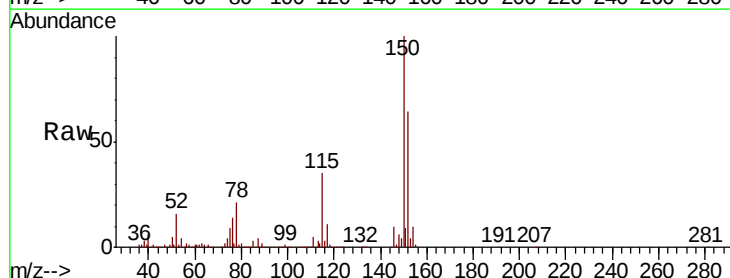
RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

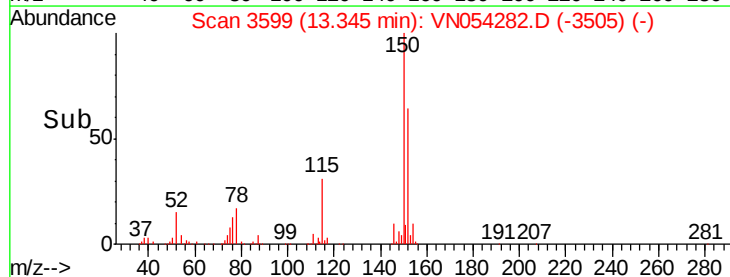
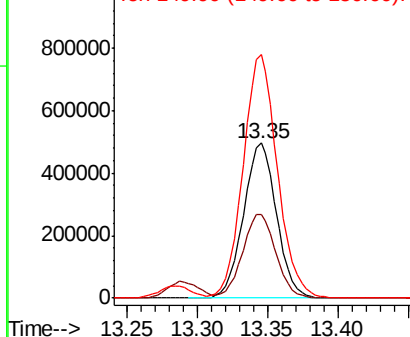
Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.6	27.2	81.6
150	163.5	0.0	349.2



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: 21.213 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBSD02

Tgt Ion: 105 Resp: 1375775

Ion Ratio Lower Upper

105 100

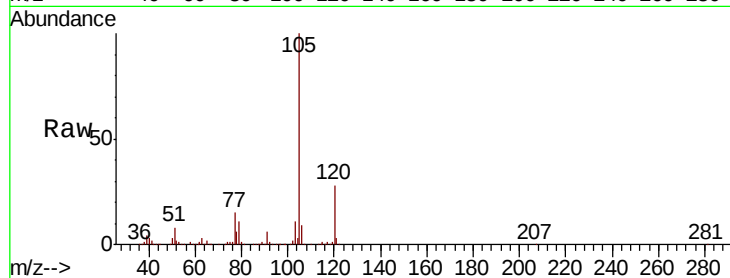
120 27.7 13.8 41.3

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

800000

600000

400000

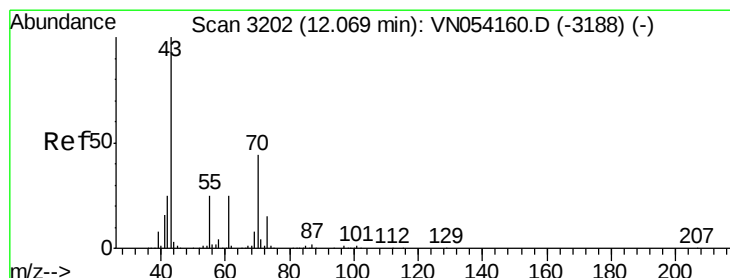
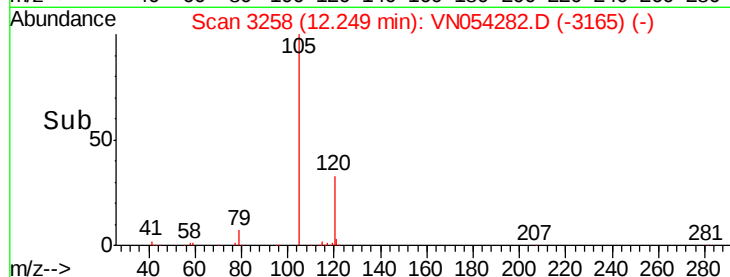
200000

0

12.20

12.30

Time-->



#74

N-ethyl acetate

Concen: 19.642 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Tgt Ion: 43 Resp: 282763

Ion Ratio Lower Upper

43 100

70 46.1 35.4 53.0

55 26.6 19.8 29.6

61 26.4 19.8 29.6

Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

250000

200000

150000

100000

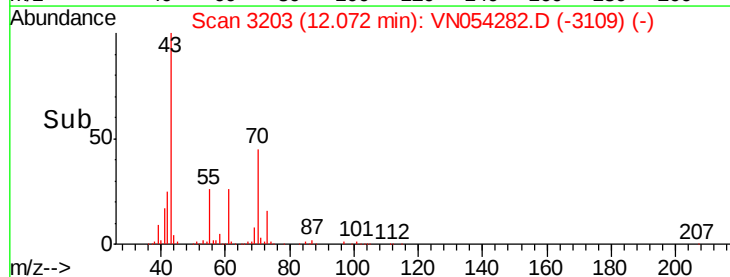
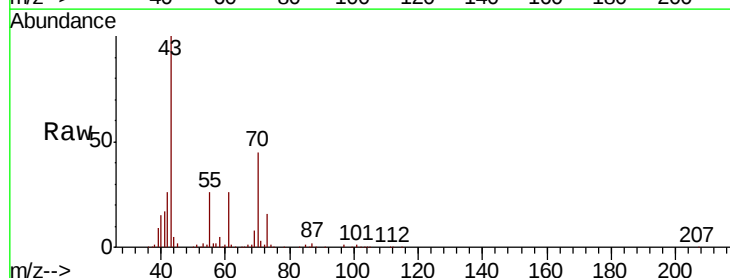
50000

0

12.00

12.10

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 21.442 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBSD02

Tgt Ion: 83 Resp: 296275
Ion Ratio Lower Upper

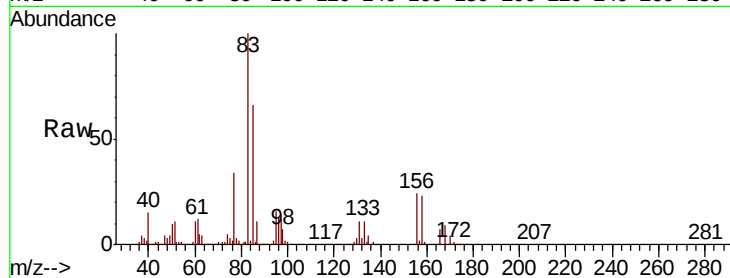
83 100

131 11.7 5.8 17.4

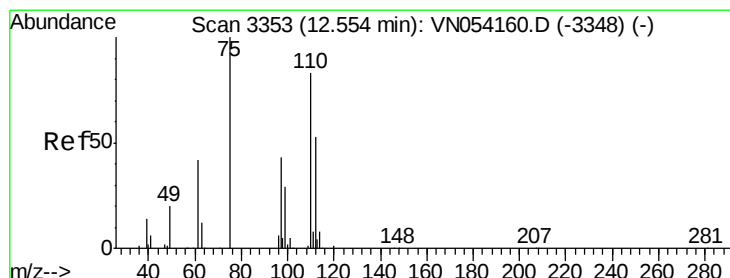
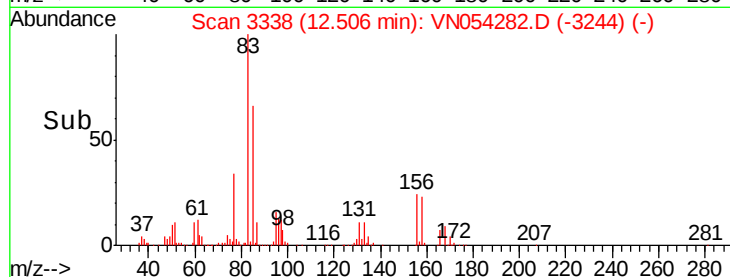
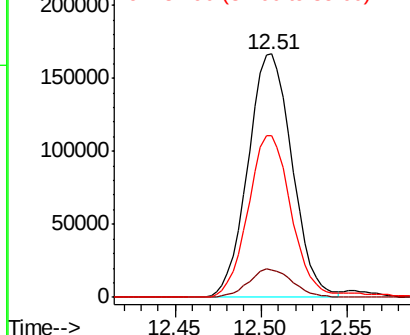
85 66.2 32.2 96.6

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Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 22.163 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

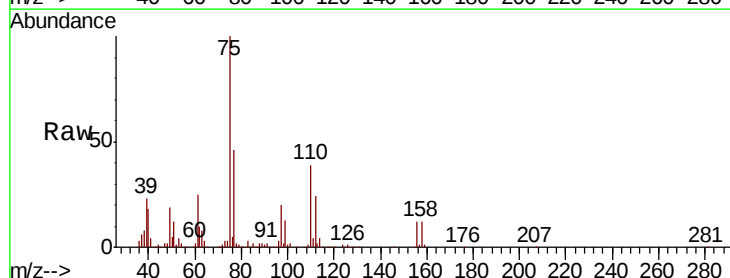
Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

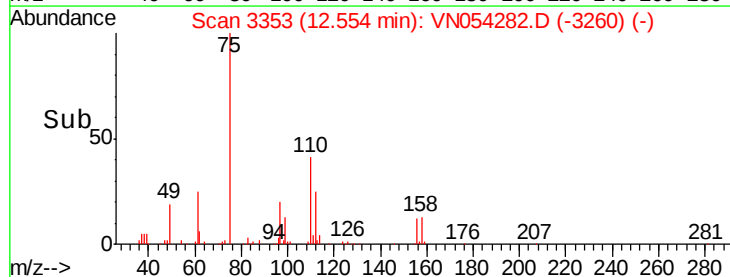
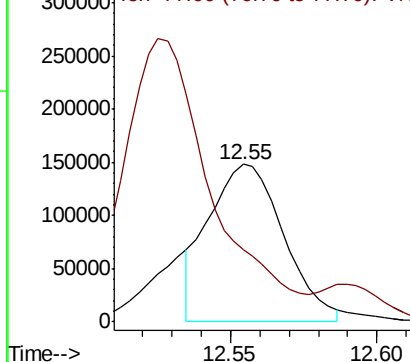
Tgt Ion: 75 Resp: 264201
Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 21.102 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

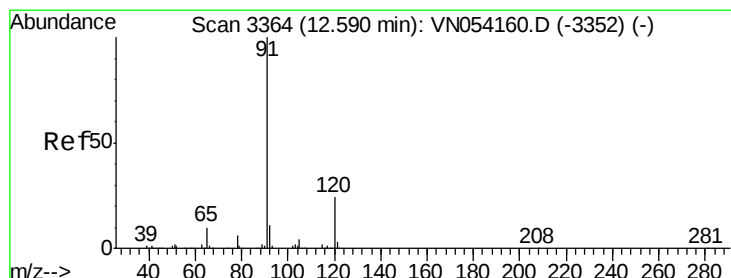
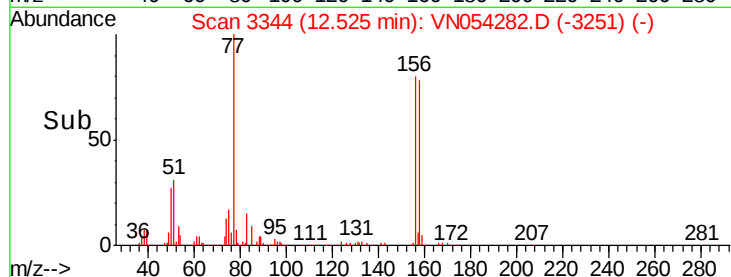
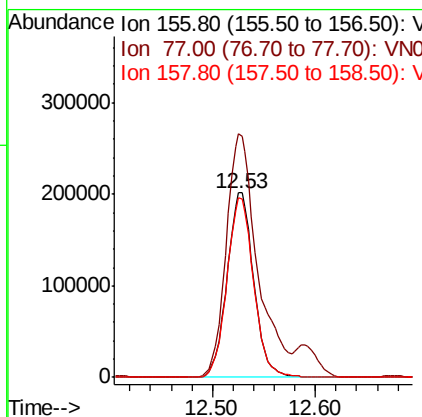
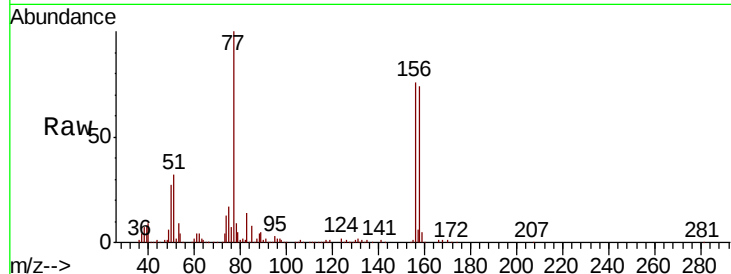
ClientSampleId :

VN0314WBSD02

Tgt Ion	Ratio	Lower	Upper
156	100		
77	155.6	81.5	244.4
158	97.8	49.0	147.2

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#78

n-propylbenzene

Concen: 20.577 ug/l

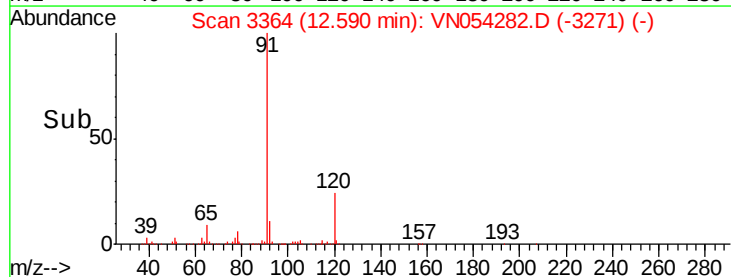
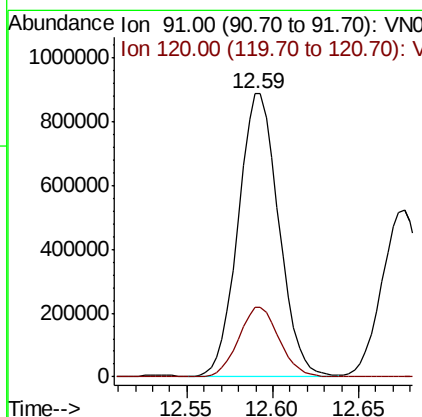
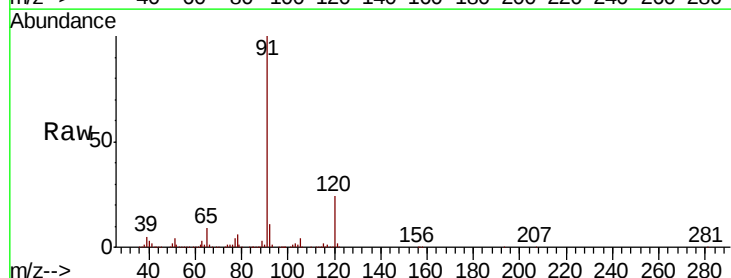
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.7	12.3	36.9





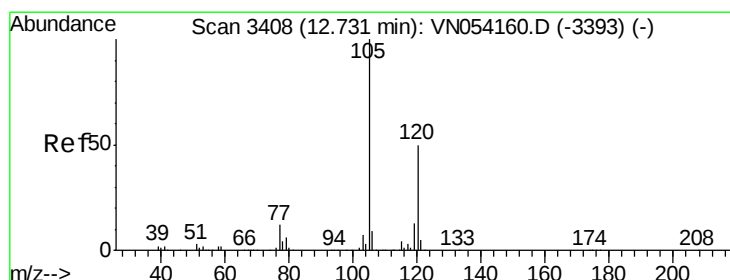
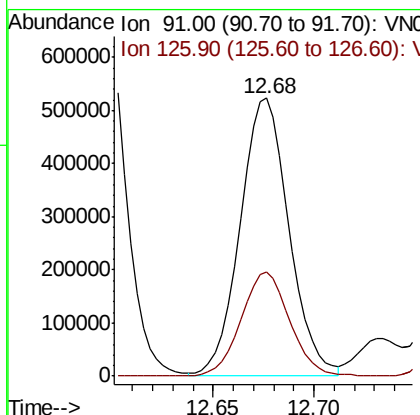
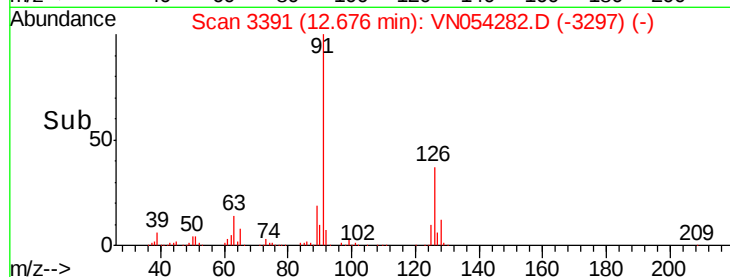
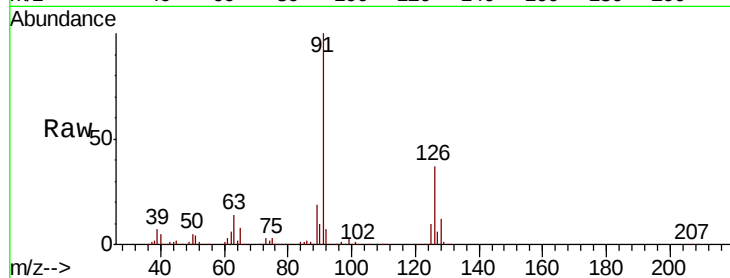
#79
 2-Chlorotoluene
 Concen: 20.854 ug/l
 RT: 12.68 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBSD02

Tgt Ion: 91 Resp: 882406
 Ion Ratio Lower Upper
 91 100
 126 37.4 18.7 56.1

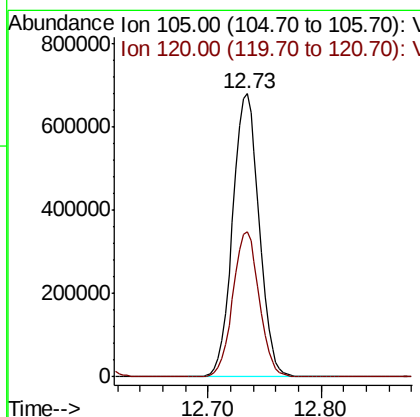
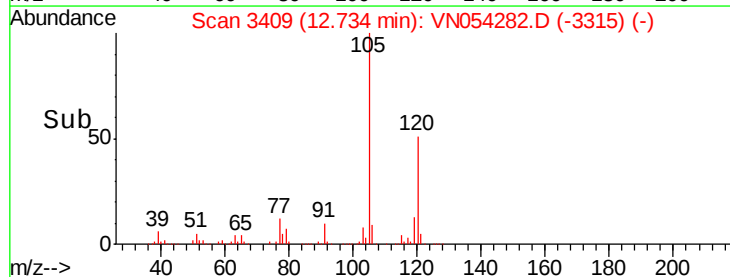
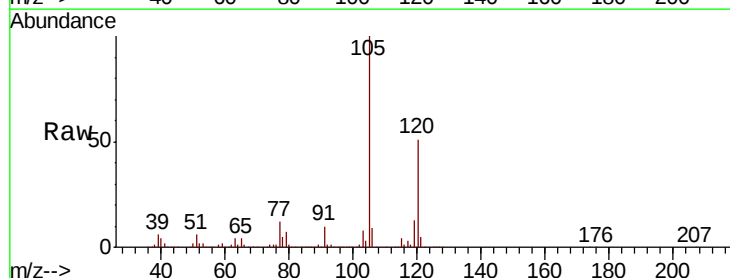
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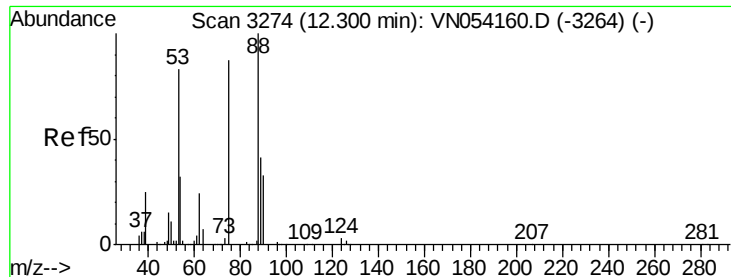
MMDadoda
 3/15/2019 10:14:27 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 20.539 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Tgt Ion: 105 Resp: 1108016
 Ion Ratio Lower Upper
 105 100
 120 51.2 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 13.309 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

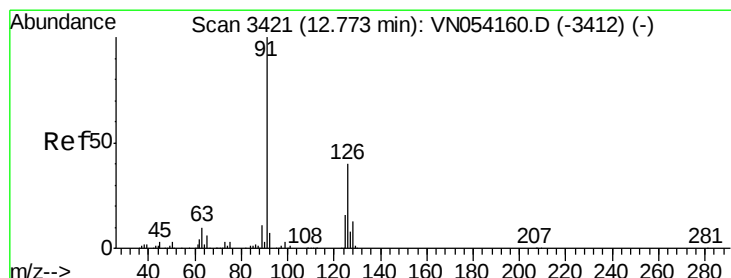
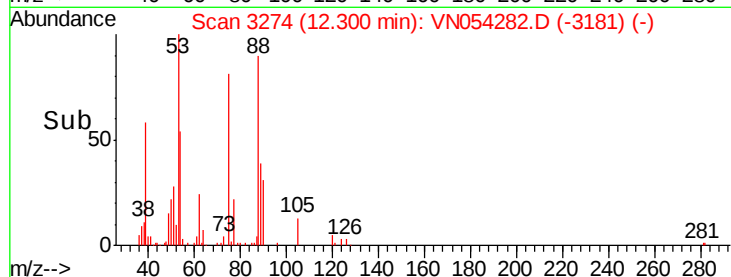
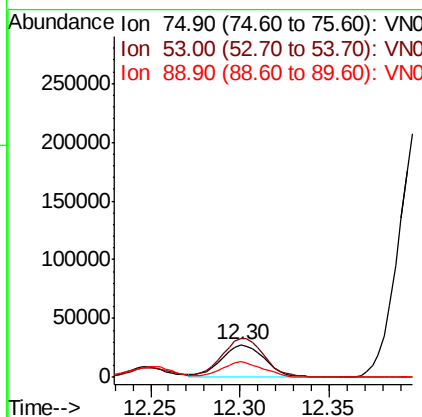
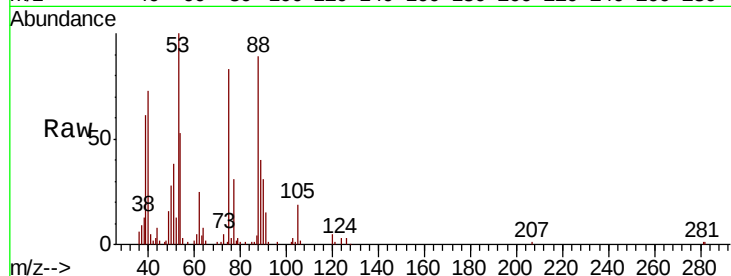
ClientSampleId :

VN0314WBSD02

Tgt Ion:	75	Resp:	46410
Ion Ratio	Lower	Upper	
75	100		
53	121.6	76.2	114.2#
89	47.6	39.2	58.8

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#82

4-Chlorotoluene

Concen: 20.349 ug/l

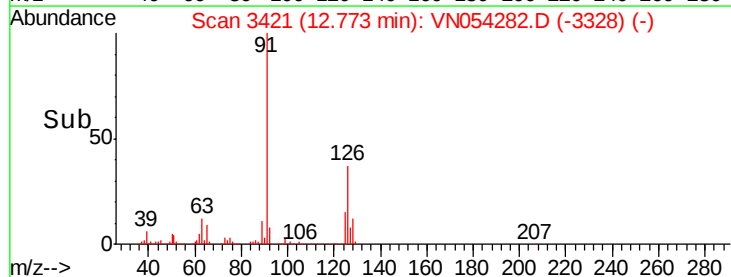
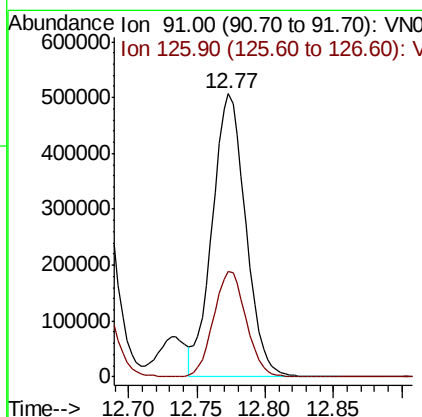
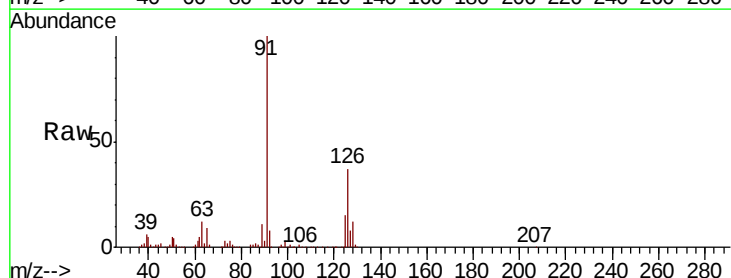
RT: 12.77 min Scan# 3421

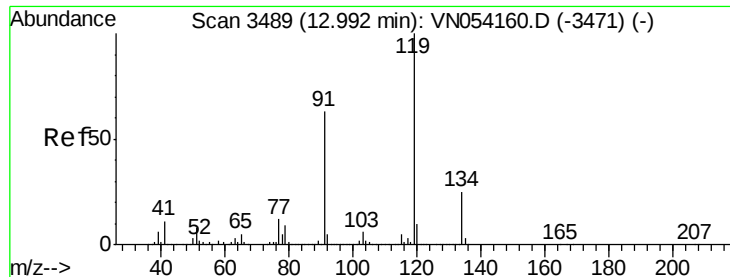
Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Tgt Ion:	91	Resp:	859741
Ion Ratio	Lower	Upper	
91	100		
126	36.6	18.1	54.1





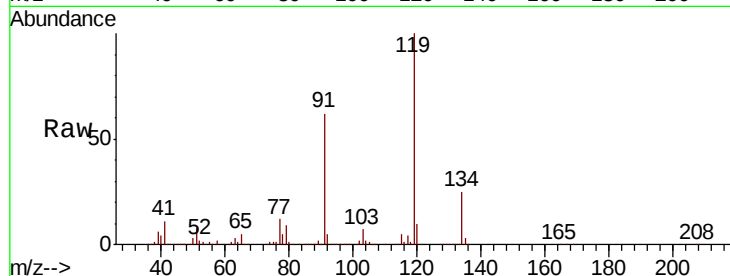
#83
tert-Butylbenzene
Concen: 20.900 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Instrument :
MSVOA_N
ClientSampleId :
VN0314WBSD02

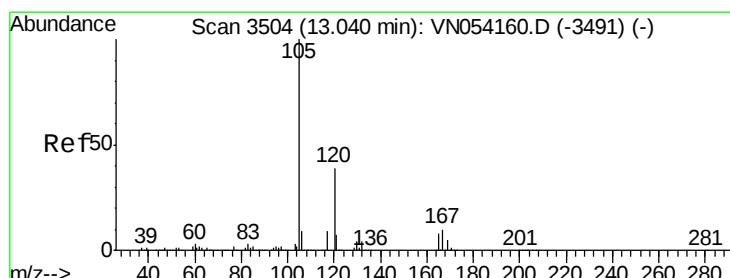
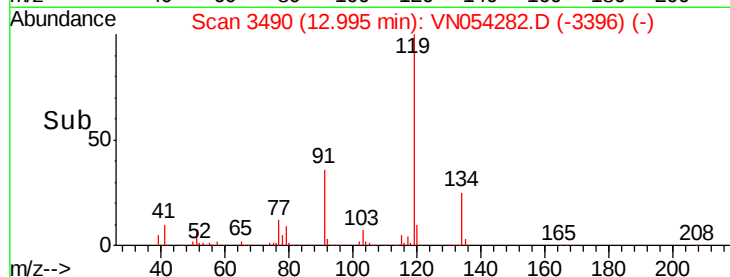
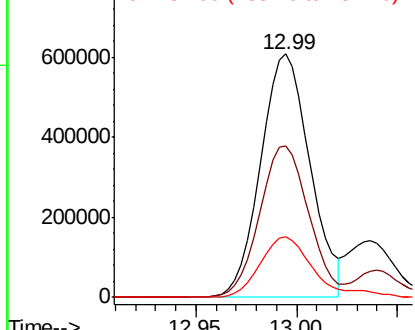
Tgt Ion:119 Resp: 1037783
Ion Ratio Lower Upper
119 100
91 62.3 30.9 92.8
134 27.1 13.2 39.6

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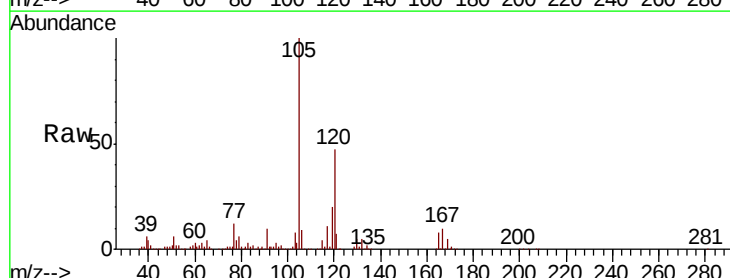


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VN
Ion 134.00 (133.70 to 134.70): V

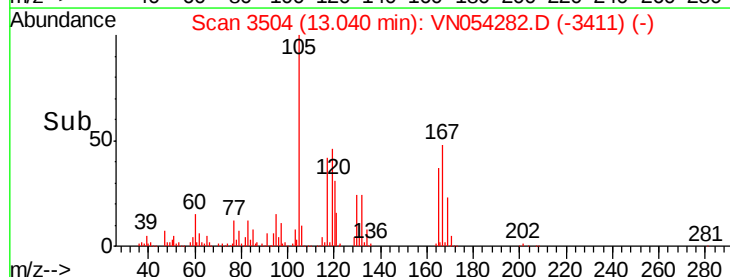
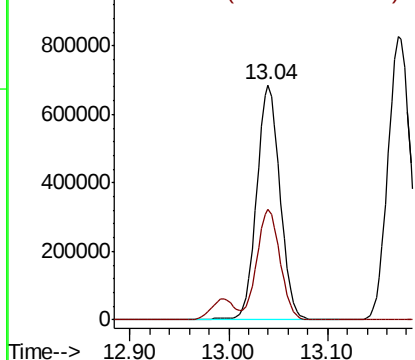


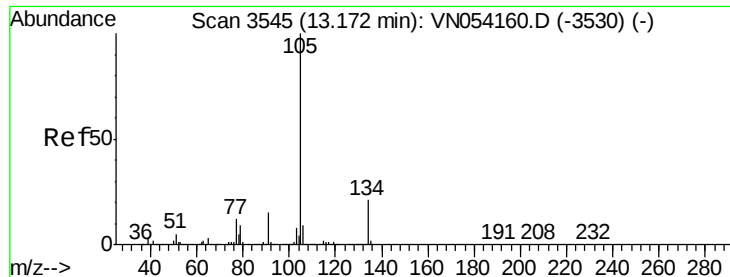
#84
1,2,4-Trimethylbenzene
Concen: 21.018 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Tgt Ion:105 Resp: 1112332
Ion Ratio Lower Upper
105 100
120 47.1 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.644 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

ClientSampleId :

VN0314WBSD02

Tgt Ion:105 Resp: 1329343

Ion Ratio Lower Upper

105 100

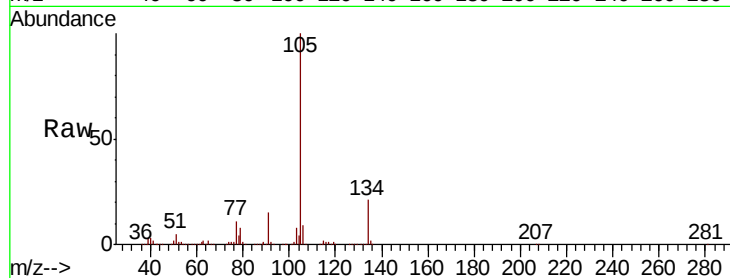
134 21.5 10.7 32.1

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

800000

600000

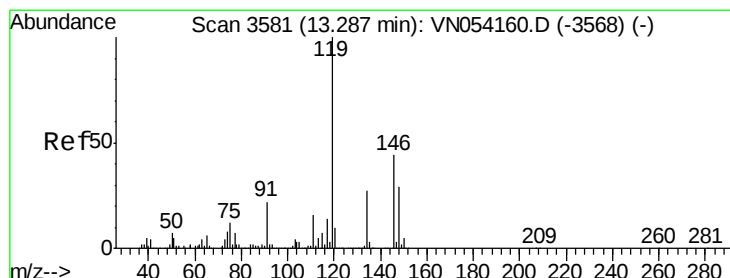
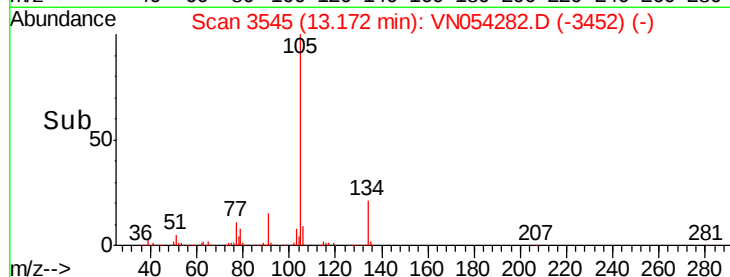
400000

200000

0

13.10 13.20

Time-->



#86

p-Isopropyltoluene

Concen: 20.299 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

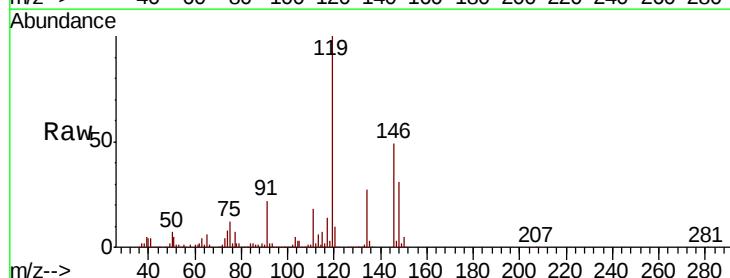
Tgt Ion:119 Resp: 1146744

Ion Ratio Lower Upper

119 100

134 27.1 13.6 40.8

91 22.2 11.1 33.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

1000000

800000

600000

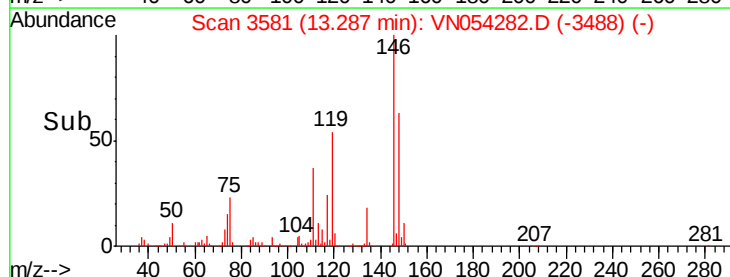
400000

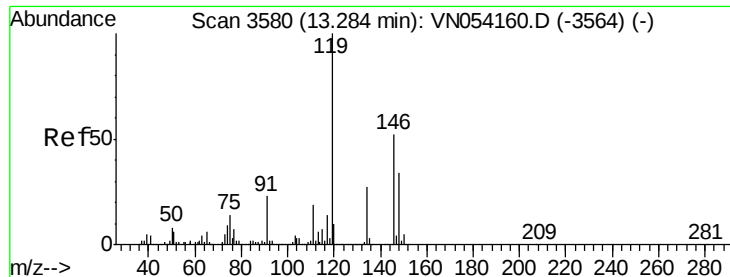
200000

0

13.20 13.25 13.30 13.35

Time-->





#87

1,3-Dichlorobenzene

Concen: 20.804 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN054282.D

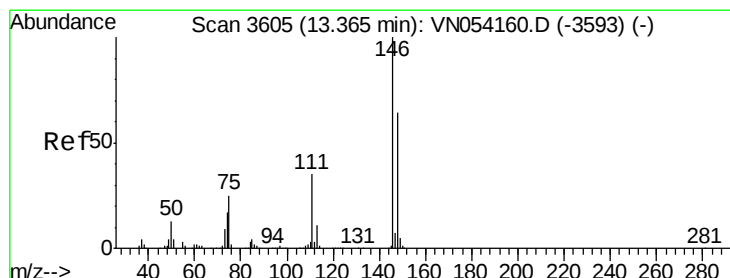
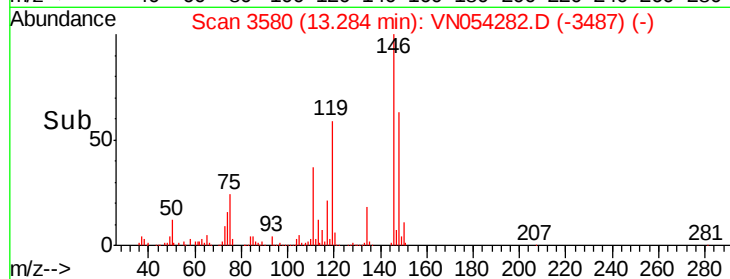
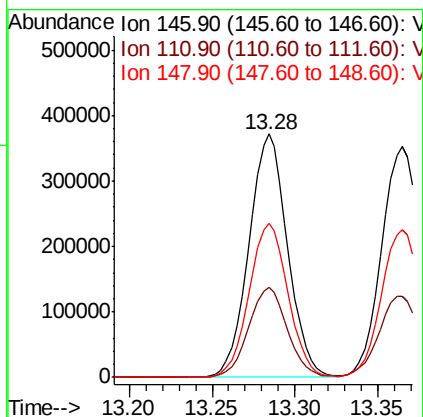
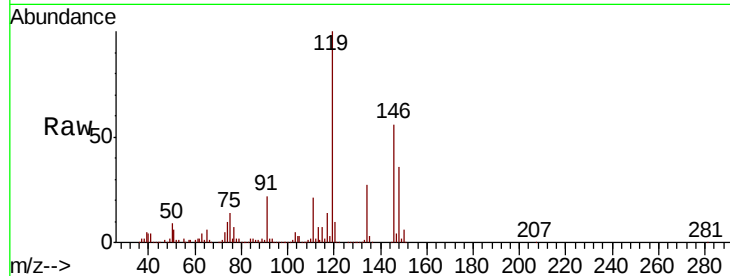
Acq: 15 Mar 2019 1:21

Instrument :
MSVOA_N
ClientSampleId :
VN0314WBSD02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.8	56.3
148	64.0	32.2	96.6

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 20.520 ug/l

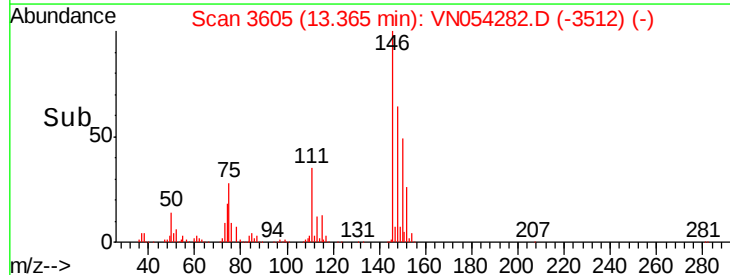
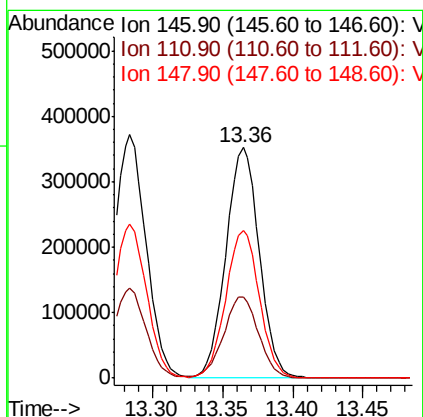
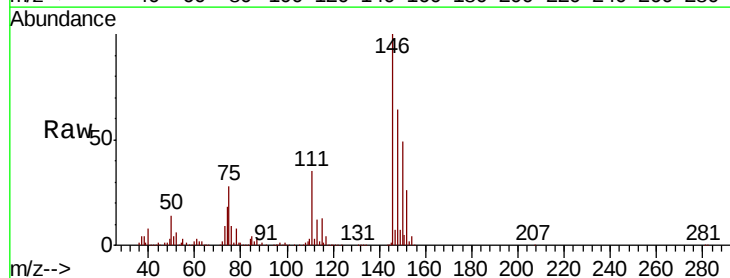
RT: 13.36 min Scan# 3605

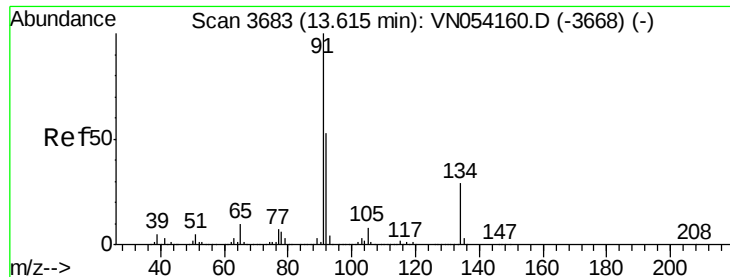
Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.1	54.1
148	64.5	32.0	96.0





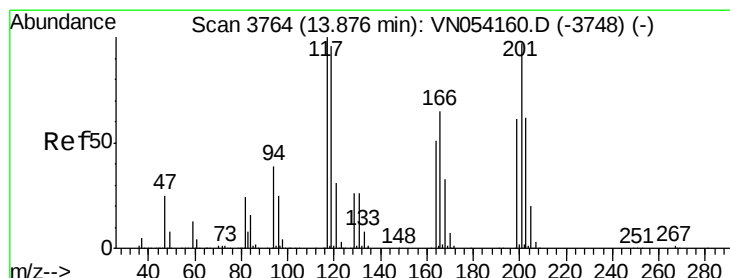
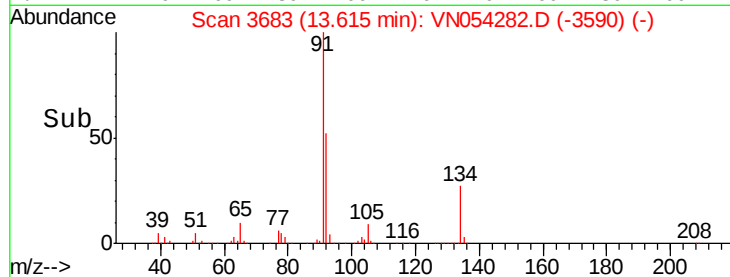
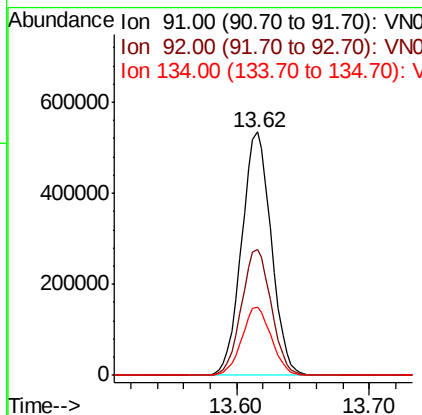
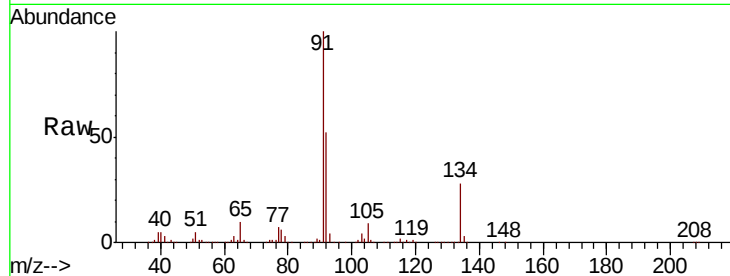
#89
n-Butylbenzene
Concen: 19.283 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Instrument :
MSVOA_N
ClientSampleId :
VN0314WBSD02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.2	78.6
134	28.1	14.3	42.9

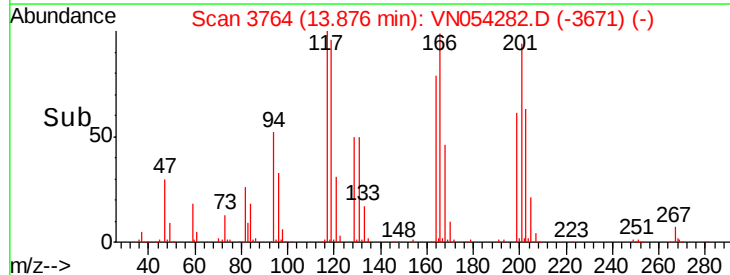
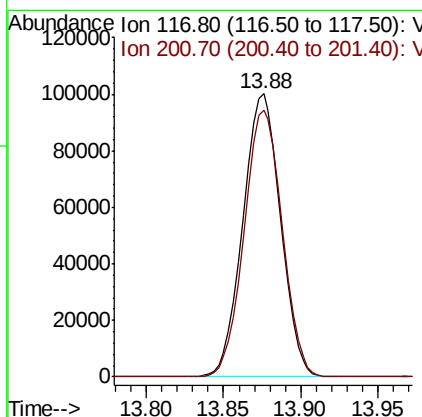
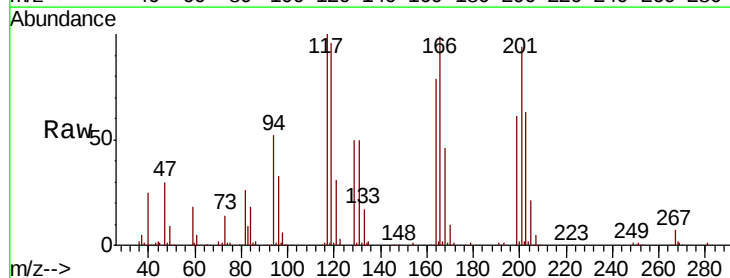
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#90
Hexachloroethane
Concen: 18.165 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN054282.D
Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Lower	Upper
117	100		
201	95.0	48.1	144.4





#91

1,2-Dichlorobenzene

Concen: 21.499 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

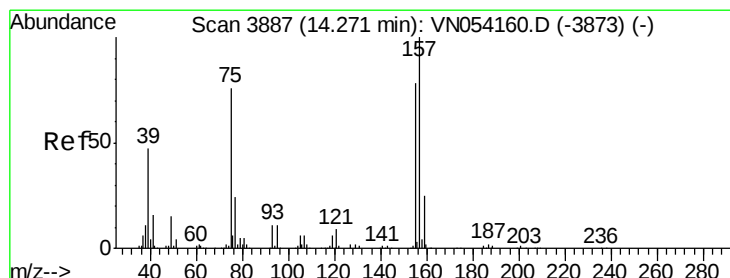
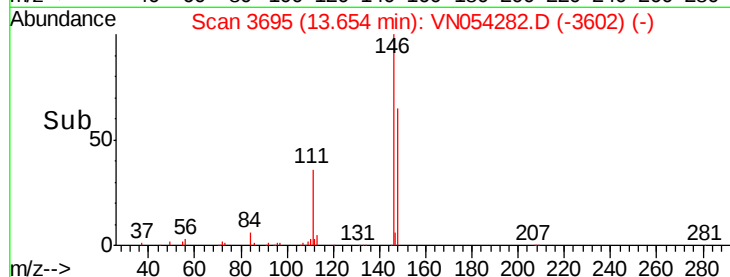
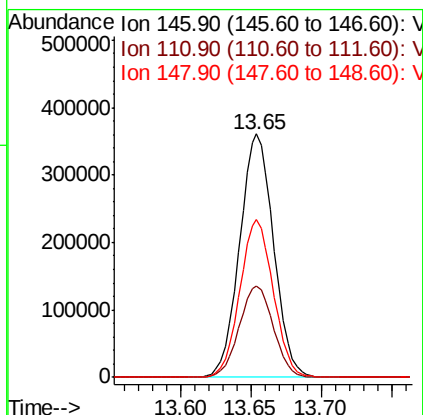
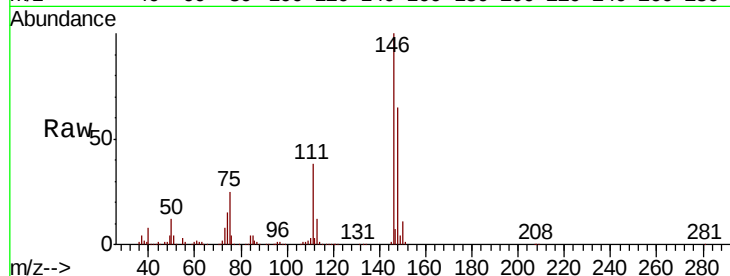
ClientSampleId :

VN0314WBSD02

Tgt Ion:	146	Resp:	607775
Ion Ratio		Lower	Upper
146	100		
111	37.8	19.1	57.3
148	63.9	32.4	97.0

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 18.535 ug/l

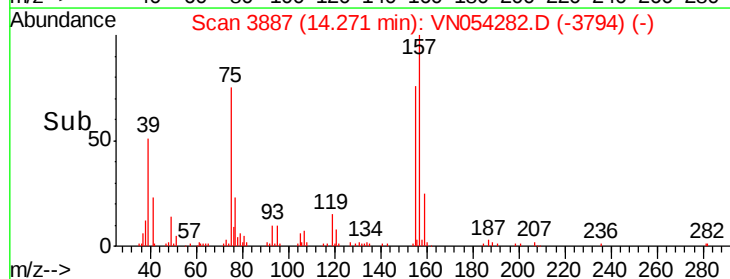
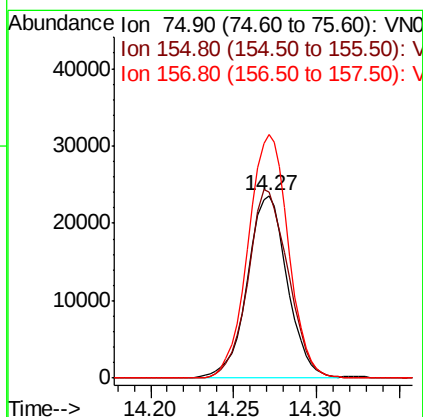
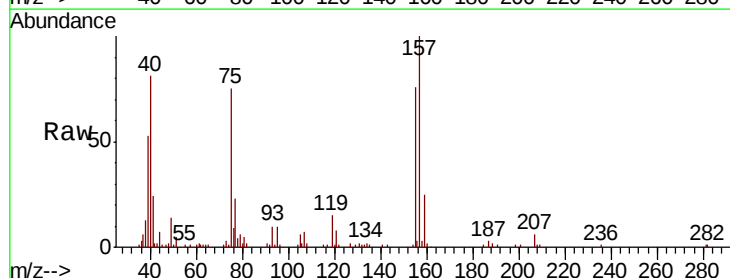
RT: 14.27 min Scan# 3887

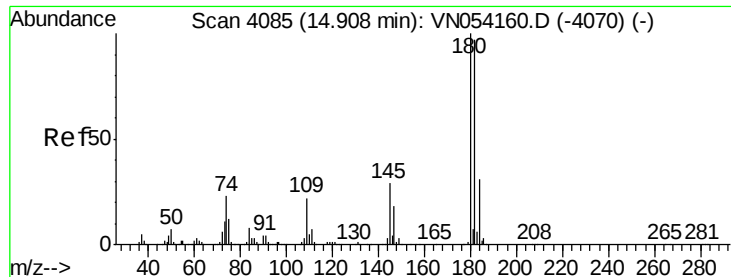
Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Tgt Ion:	75	Resp:	39632
Ion Ratio		Lower	Upper
75	100		
155	104.1	50.1	150.3
157	134.8	63.1	189.3





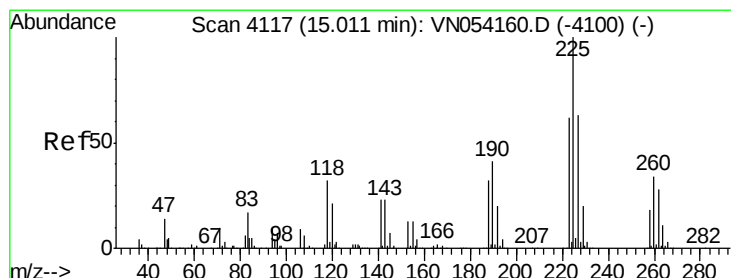
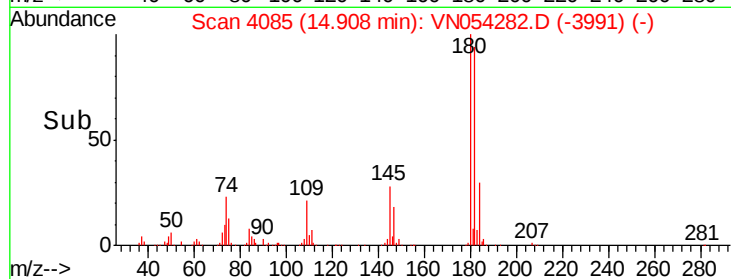
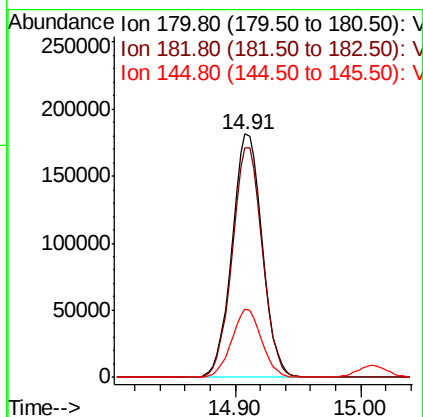
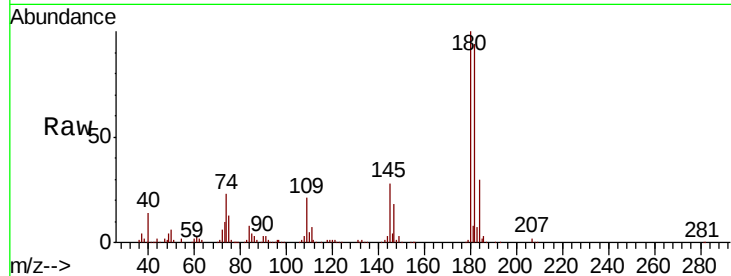
#93
 1,2,4-Trichlorobenzene
 Concen: 19.373 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0314WBSD02

Tgt Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	94.3	48.0	144.2
145	27.6	14.2	42.8

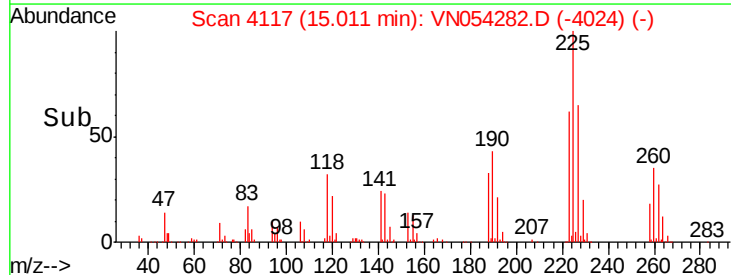
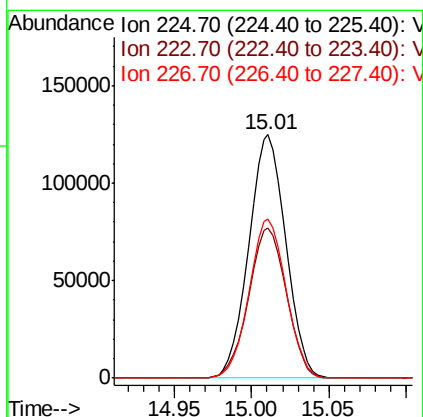
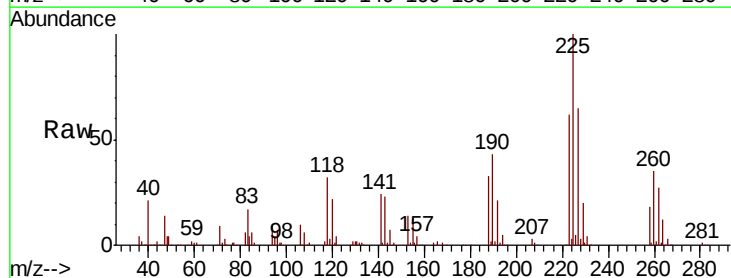
Manual Integrations
 APPROVED

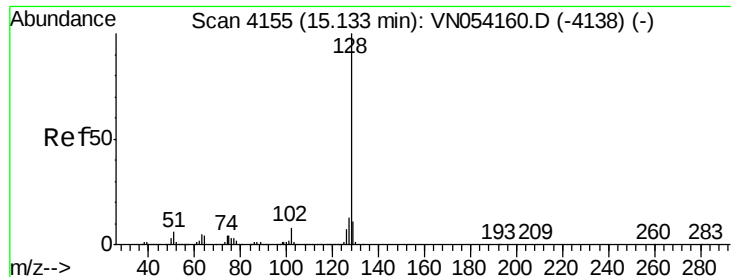
MMDadoda
 3/15/2019 10:14:27 AM



#94
 Hexachlorobutadiene
 Concen: 19.341 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN054282.D
 Acq: 15 Mar 2019 1:21

Tgt Ion	Ratio	Resp Lower	Resp Upper
225	100		
223	63.0	31.1	93.5
227	65.2	31.9	95.9





#95

Naphthalene

Concen: 20.542 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Instrument :

MSVOA_N

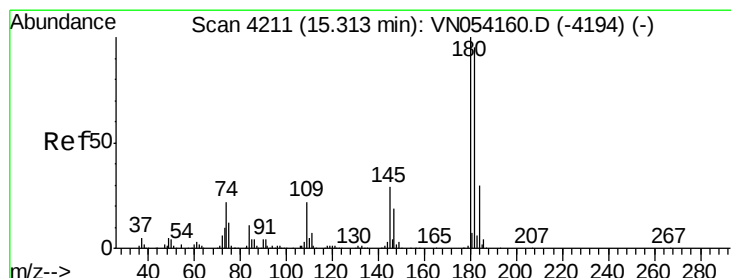
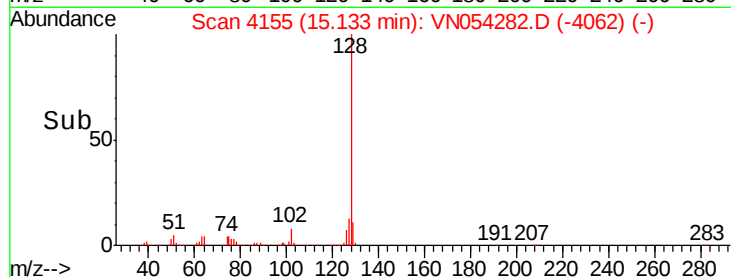
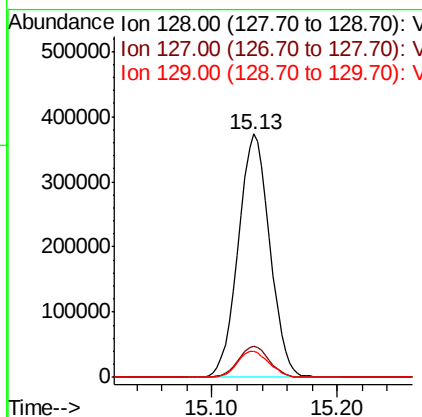
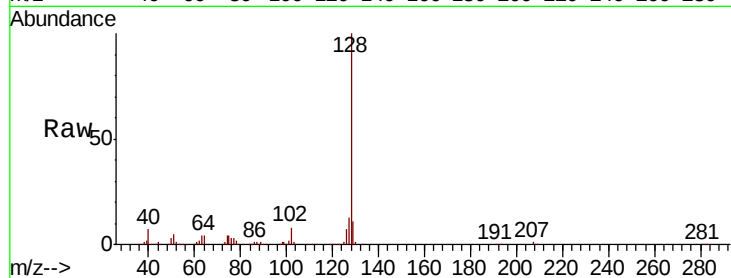
ClientSampleId :

VN0314WBSD02

Tgt Ion:	128	Resp:	652263
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.1	15.1
129	10.8	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/15/2019 10:14:27 AM



#96

1,2,3-Trichlorobenzene

Concen: 20.880 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN054282.D

Acq: 15 Mar 2019 1:21

Tgt Ion:	180	Resp:	313626
Ion Ratio	Lower	Upper	
180	100		
182	96.2	47.5	142.6
145	29.8	14.8	44.3

