

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081919\
 Data File : VN057417.D
 Acq On : 19 Aug 2019 23:12
 Operator : JC/SP
 Sample : VN0819WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBSD02

Manual Integrations
 APPROVED

MMDadoda
 8/21/2019 9:45:37 AM

Quant Time: Aug 20 09:02:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 15 11:33:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	822547	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1216012	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	1075385	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	379216	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	426461	47.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.38%	
35) Dibromofluoromethane	7.58	113	391592	49.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.26%	
50) Toluene-d8	10.08	98	1440531	49.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.82%	
62) 4-Bromofluorobenzene	12.40	95	455712	44.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.46%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	123921	17.508	ug/l	100
3) Chloromethane	2.06	50	142580	17.066	ug/l	98
4) Vinyl Chloride	2.18	62	138210	17.584	ug/l	99
5) Bromomethane	2.54	94	112913	20.153	ug/l	96
6) Chloroethane	2.70	64	95748	17.710	ug/l	97
7) Trichlorofluoromethane	3.02	101	236066	19.148	ug/l	98
8) Diethyl Ether	3.40	74	84395	18.188	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	136281	18.815	ug/l	96
10) Methyl Iodide	3.95	142	226168	19.534	ug/l	99
11) Tert butyl alcohol	4.75	59	111367	87.606	ug/l	99
12) 1,1-Dichloroethene	3.73	96	134770	18.674	ug/l	96
13) Acrolein	3.60	56	37621	48.749	ug/l	98
14) Allyl chloride	4.32	41	186768	16.144	ug/l	92
15) Acrylonitrile	4.97	53	312320	90.494	ug/l	99
16) Acetone	3.80	43	239461	77.197	ug/l	100
17) Carbon Disulfide	4.05	76	335102	17.235	ug/l	98
18) Methyl Acetate	4.31	43	223132	25.747	ug/l	98
19) Methyl tert-butyl Ether	5.03	73	429660	18.974	ug/l	98
20) Methylene Chloride	4.54	84	156840	18.071	ug/l	94
21) trans-1,2-Dichloroethene	5.03	96	145304	18.722	ug/l	97
22) Diisopropyl ether	5.93	45	415456	18.180	ug/l	97
23) Vinyl Acetate	5.88	43	1474323	80.160	ug/l	98
24) 1,1-Dichloroethane	5.84	63	261591	18.606	ug/l	97
25) 2-Butanone	6.82	43	376029	83.711	ug/l	93
26) 2,2-Dichloropropane	6.81	77	177956	15.661	ug/l	98
27) cis-1,2-Dichloroethene	6.82	96	176504	19.210	ug/l	95
28) Bromochloromethane	7.18	49	121653	19.474	ug/l #	91
29) Tetrahydrofuran	7.19	42	252559	88.844	ug/l	99
30) Chloroform	7.36	83	278054	18.872	ug/l	97
31) Cyclohexane	7.65	56	215133	17.657	ug/l	95
32) 1,1,1-Trichloroethane	7.56	97	242359	19.557	ug/l	98
36) 1,1-Dichloropropene	7.78	75	193344	18.008	ug/l	99
37) Ethyl Acetate	6.91	43	149780	17.033	ug/l	98
38) Carbon Tetrachloride	7.76	117	219961	19.718	ug/l	98

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Quant Time: Aug 20 09:02:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 15 11:33:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	225762	18.008	ug/l	99
40) Benzene	8.03	78	615716	18.749	ug/l	100
41) Methacrylonitrile	7.17	41	78119m	19.726	ug/l	
42) 1,2-Dichloroethane	8.12	62	202779	18.657	ug/l	98
43) Isopropyl Acetate	8.16	43	319976	19.202	ug/l	96
44) Trichloroethene	8.83	130	182339	19.750	ug/l	94
45) 1,2-Dichloropropane	9.11	63	157955	18.661	ug/l	100
46) Dibromomethane	9.20	93	108073	19.138	ug/l	99
47) Bromodichloromethane	9.40	83	215397	19.252	ug/l	99
48) Methyl methacrylate	9.19	41	128533	17.750	ug/l	97
49) 1,4-Dioxane	9.19	88	54060	354.994	ug/l	99
51) 4-Methyl-2-Pentanone	9.98	43	791189	87.212	ug/l	98
52) Toluene	10.15	92	394863	19.318	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	217534	17.975	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	248661	18.633	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	156911	19.523	ug/l	96
56) Ethyl methacrylate	10.42	69	220472	18.797	ug/l	98
57) 1,3-Dichloropropane	10.70	76	249608	18.590	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.69	63	214688	74.230	ug/l	98
59) 2-Hexanone	10.75	43	556261	85.288	ug/l	99
60) Dibromochloromethane	10.90	129	179787	19.961	ug/l	98
61) 1,2-Dibromoethane	11.00	107	165781	19.363	ug/l	100
64) Tetrachloroethene	10.63	164	186715	20.085	ug/l	99
65) Chlorobenzene	11.43	112	432232	19.707	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	171572	20.426	ug/l	100
67) Ethyl Benzene	11.51	91	727644	18.963	ug/l	99
68) m/p-Xylenes	11.62	106	547165	38.702	ug/l	97
69) o-Xylene	11.95	106	269440	19.410	ug/l	99
70) Styrene	11.96	104	419154	18.942	ug/l	100
71) Bromoform	12.13	173	132229	19.954	ug/l #	98
73) Isopropylbenzene	12.25	105	717695	21.895	ug/l	99
74) N-amyl acetate	12.07	43	186814	16.977	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	202850	21.516	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	163752m	20.846	ug/l	
77) Bromobenzene	12.53	156	191831	22.410	ug/l	95
78) n-propylbenzene	12.59	91	689794	18.889	ug/l	98
79) 2-Chlorotoluene	12.67	91	452789	21.325	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	591661	21.888	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	57091	18.358	ug/l	98
82) 4-Chlorotoluene	12.77	91	411231	19.004	ug/l	98
83) tert-Butylbenzene	12.99	119	533712	22.116	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	552412	20.225	ug/l	99
85) sec-Butylbenzene	13.17	105	611245	20.411	ug/l	100
86) p-Isopropyltoluene	13.29	119	537577	19.224	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	263620	19.841	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	246235	19.523	ug/l	99
89) n-Butylbenzene	13.62	91	412085	20.671	ug/l	99
90) Hexachloroethane	13.88	117	114262	22.755	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	259195	20.927	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	23050	17.045	ug/l	93

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Instrument :
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VN0819WBSD02

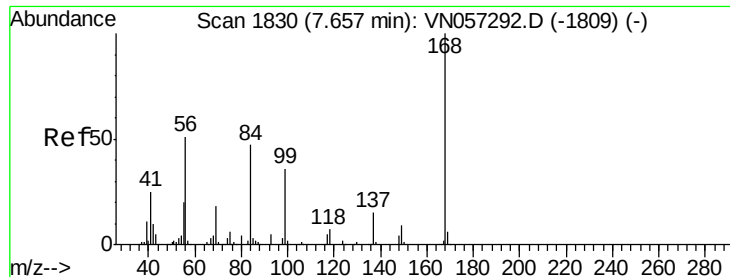
Manual Integrations
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8/21/2019 9:45:37 AM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081519W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 15 11:33:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	64337	16.954	ug/l	99
94) Hexachlorobutadiene	15.01	225	118686	22.508	ug/l	98
95) Naphthalene	15.13	128	128771	20.916	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	62495	20.636	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBSD02

Tot Ion:168 Resp: 822547

Ion Ratio Lower Upper

168 100

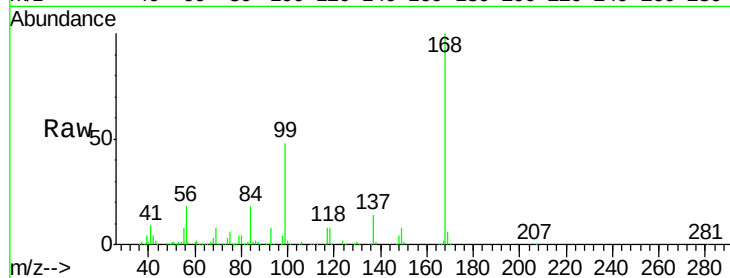
99 47.9 39.4 59.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

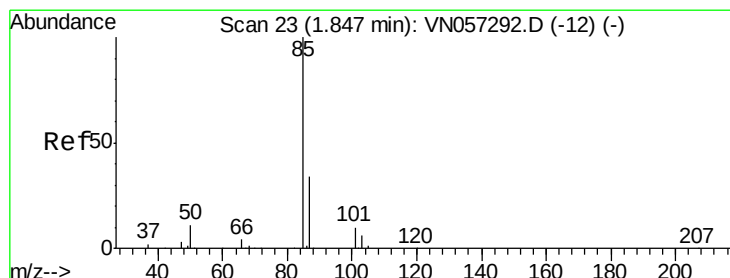
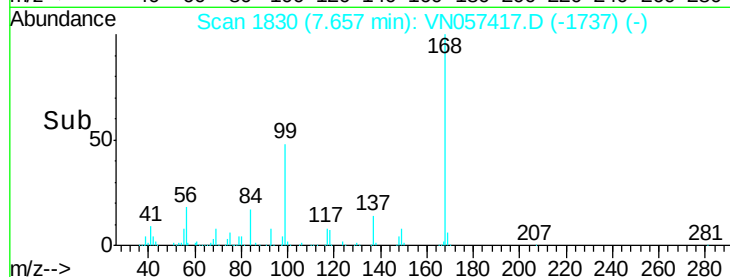
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 17.508 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN057417.D

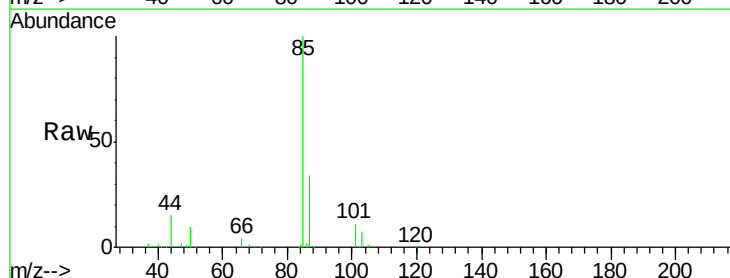
Acq: 19 Aug 2019 23:12

Tgt Ion: 85 Resp: 123921

Ion Ratio Lower Upper

85 100

87 33.6 16.9 50.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

80000

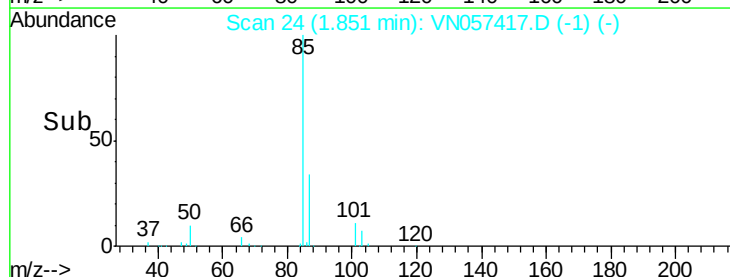
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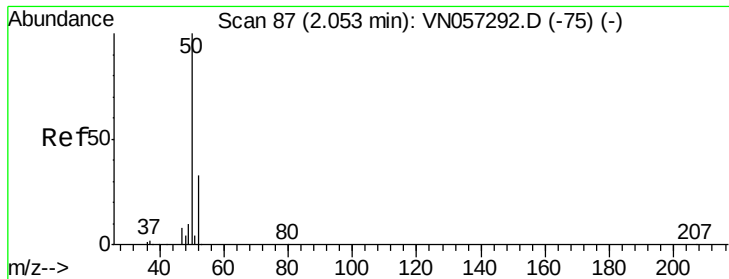
40000

20000

0

Time-->





#3

Chloromethane

Concen: 17.066 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBSD02

Tot Ion: 50 Resp: 142580

Ion Ratio Lower Upper

50 100

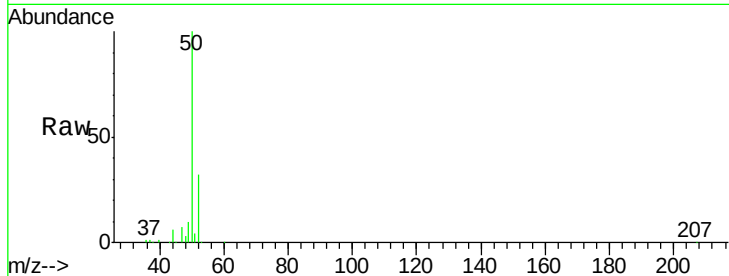
52 32.4 26.8 40.2

Manual Integrations

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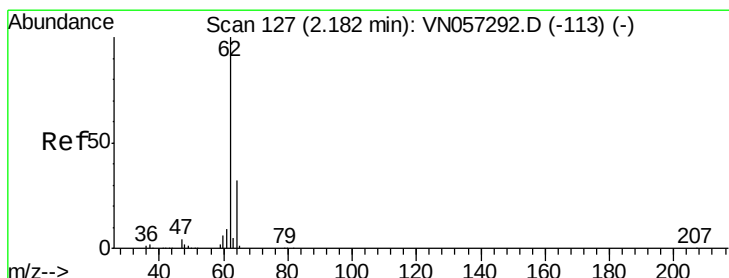
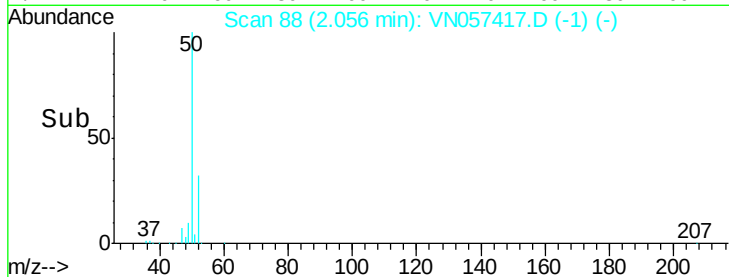
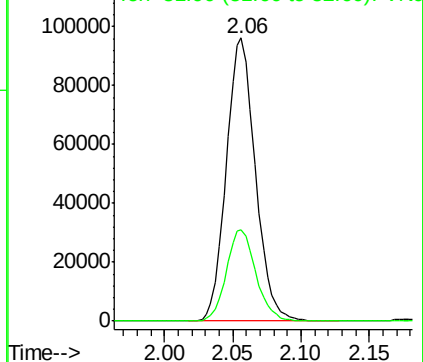
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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 17.584 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN057417.D

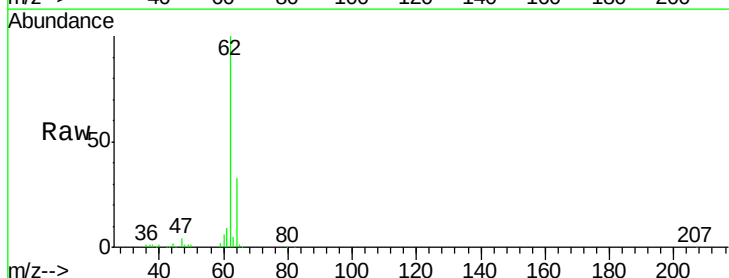
Acq: 19 Aug 2019 23:12

Tgt Ion: 62 Resp: 138210

Ion Ratio Lower Upper

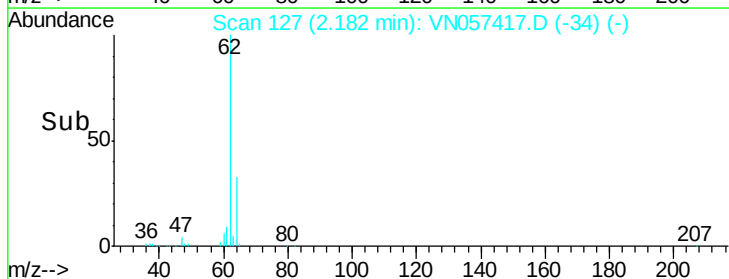
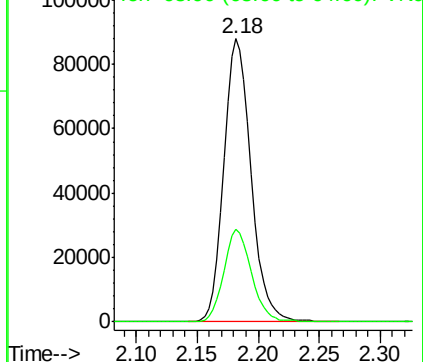
62 100

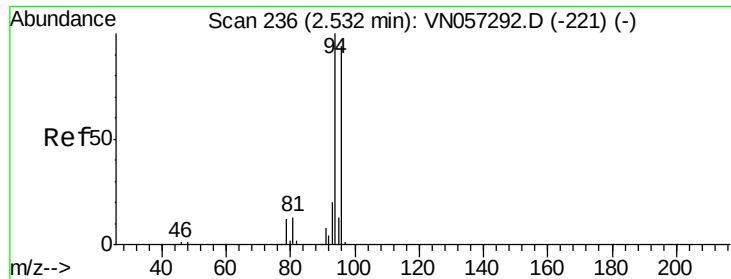
64 33.0 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 20.153 ug/l

RT: 2.54 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

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ClientSampleId :

VN0819WBSD02

Tot Ion: 94 Resp: 112913

Ion Ratio Lower Upper

94 100

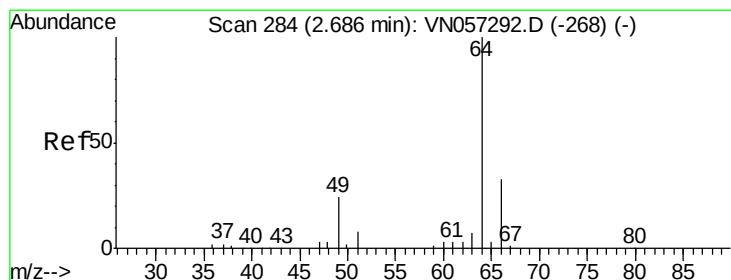
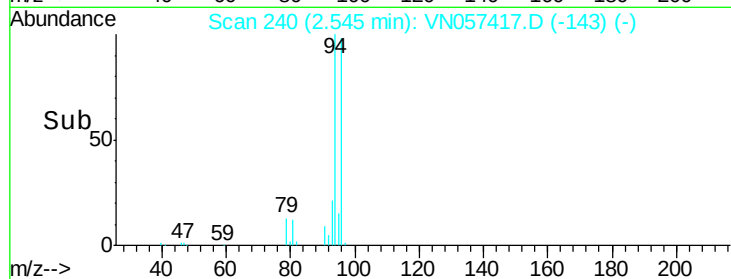
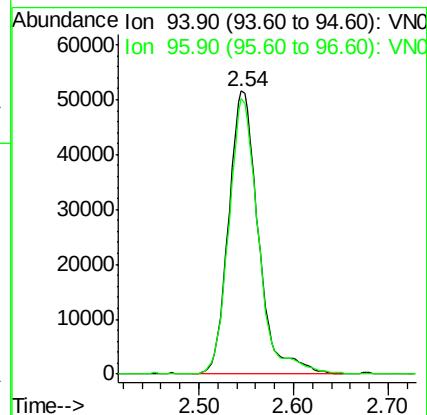
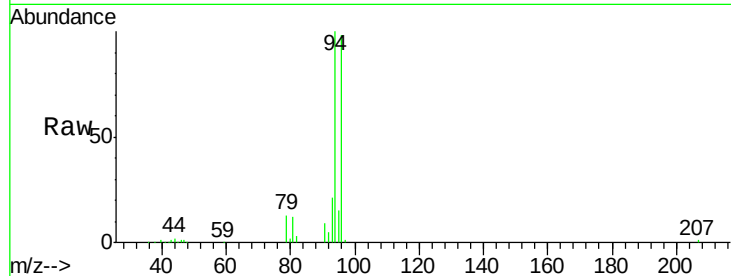
96 97.5 75.0 112.6

Manual Integrations

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#6

Chloroethane

Concen: 17.710 ug/l

RT: 2.70 min Scan# 287

Delta R.T. 0.01 min

Lab File: VN057417.D

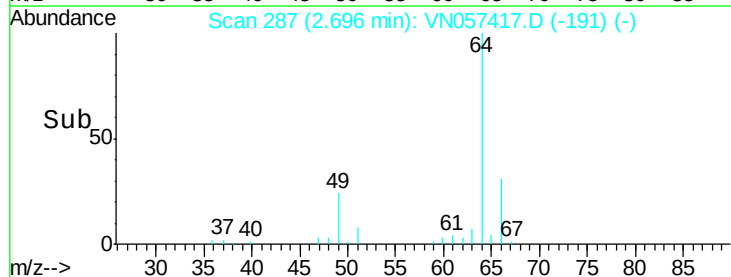
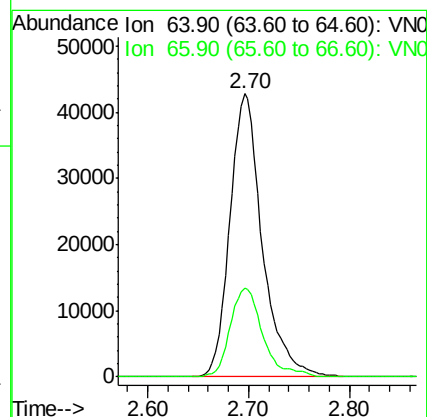
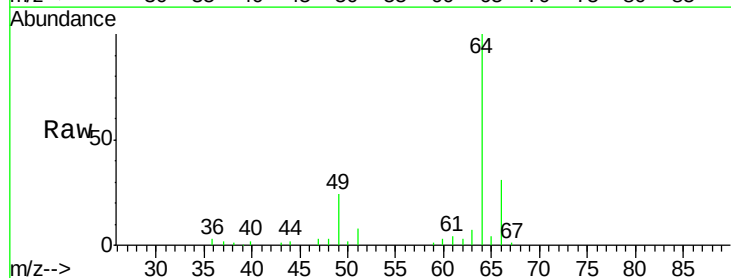
Acq: 19 Aug 2019 23:12

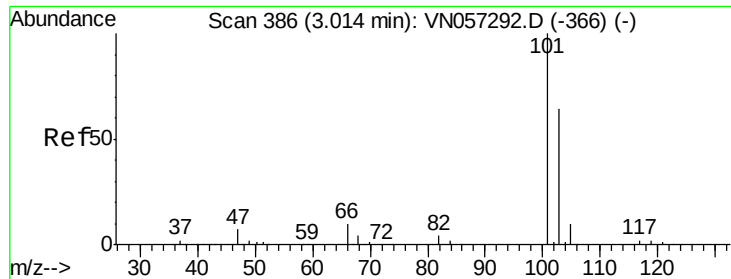
Tgt Ion: 64 Resp: 95748

Ion Ratio Lower Upper

64 100

66 31.4 26.4 39.6





#7

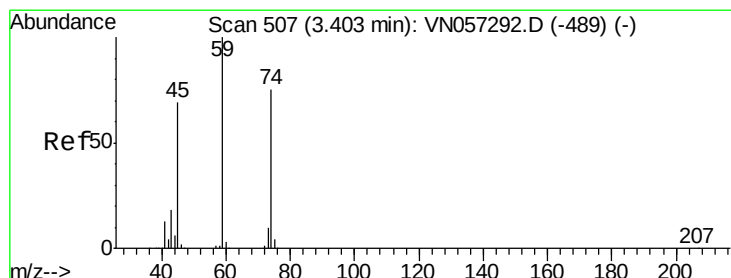
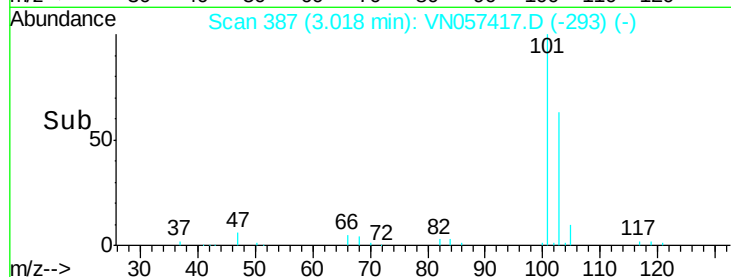
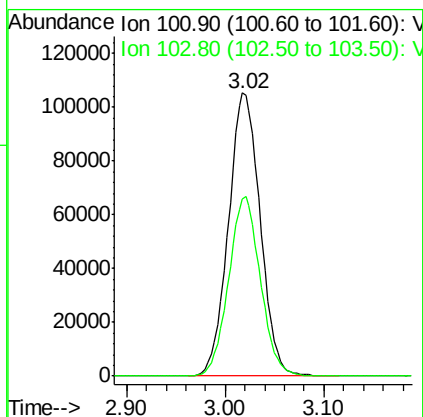
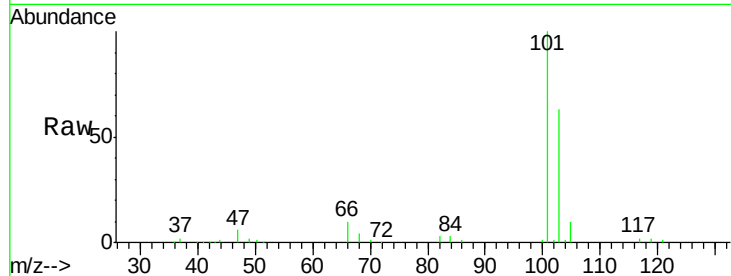
Trichlorofluoromethane
Concen: 19.148 ug/l
RT: 3.02 min Scan# 387
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

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ClientSampleId :
VN0819WBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.8	51.5	77.3

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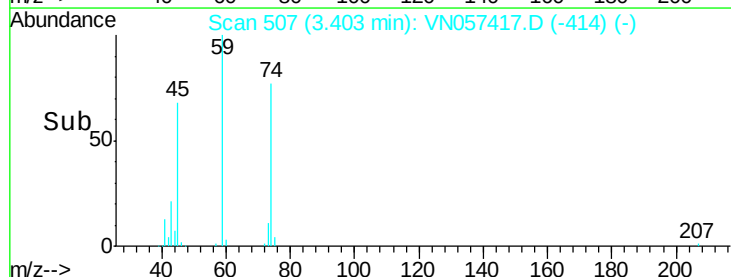
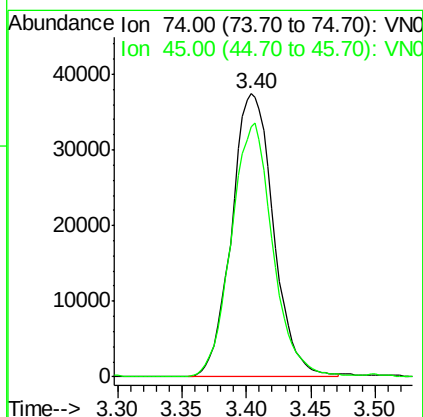
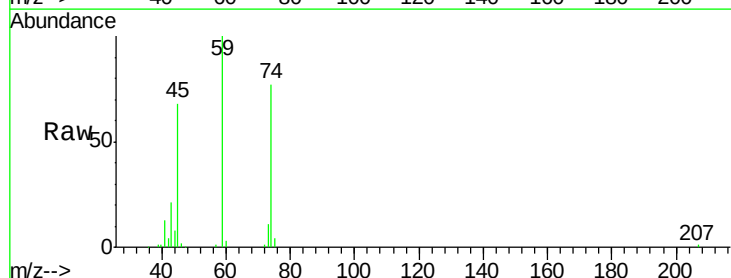
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8/21/2019 9:45:37 AM

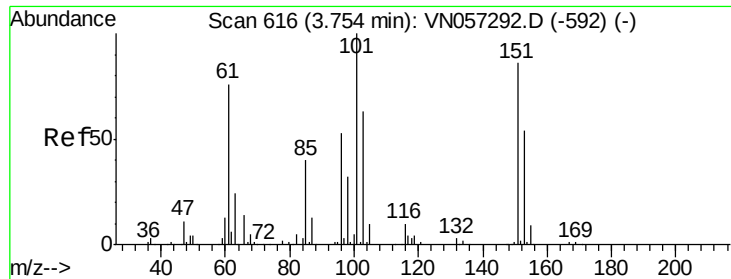


#8

Diethyl Ether
Concen: 18.188 ug/l
RT: 3.40 min Scan# 507
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Lower	Upper
74	100		
45	89.0	45.9	137.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.815 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

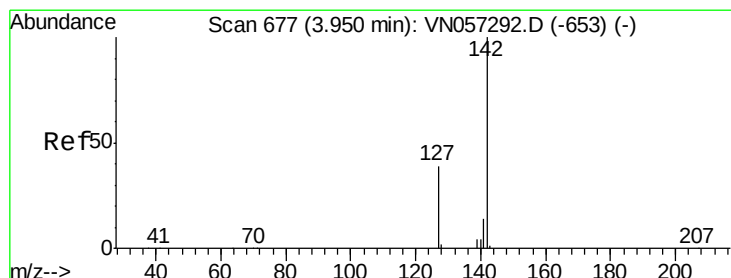
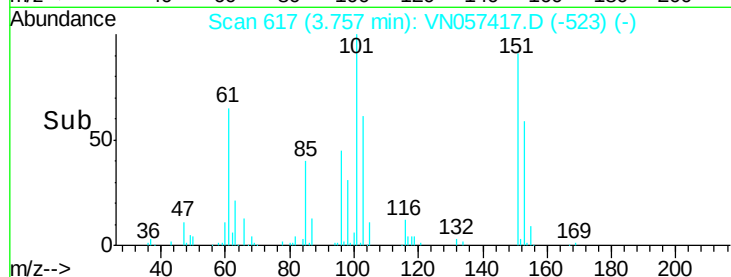
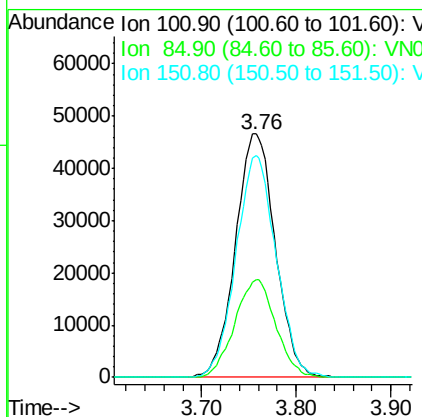
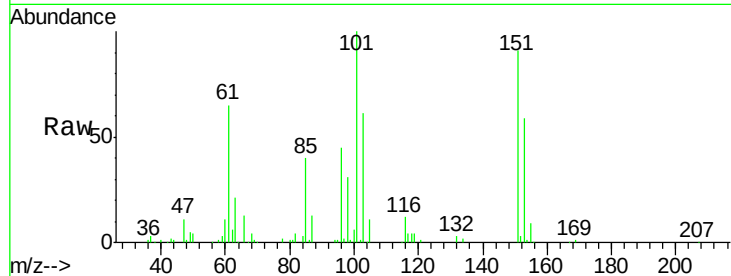
ClientSampleId :

VN0819WBSD02

Tot Ion:	101	Resp:	136281
Ion Ratio	Lower	Upper	
101	100		
85	41.1	32.7	49.1
151	91.8	69.1	103.7

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#10

Methyl Iodide

Concen: 19.534 ug/l

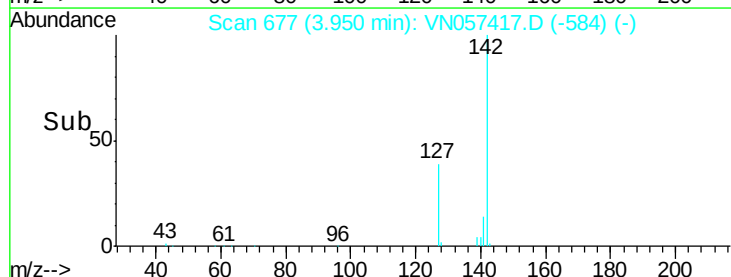
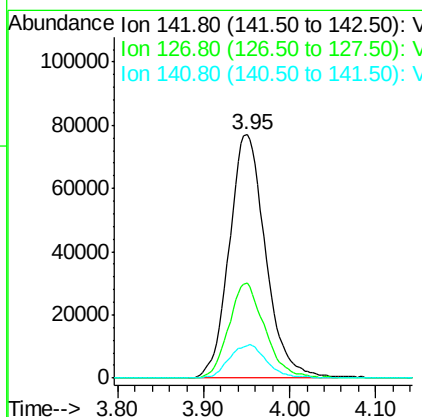
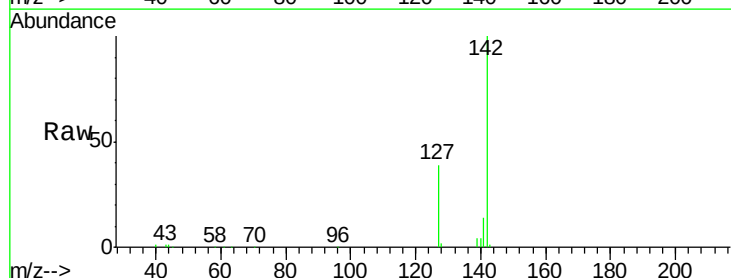
RT: 3.95 min Scan# 677

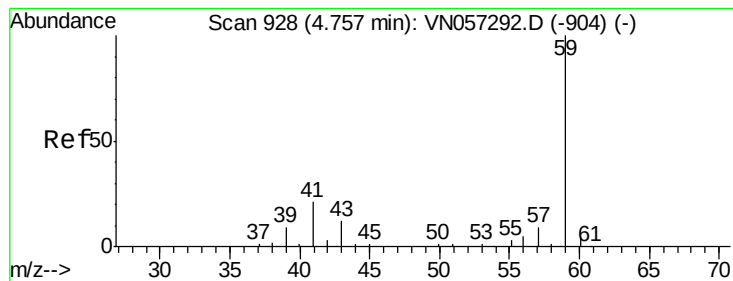
Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Tgt Ion:	142	Resp:	226168
Ion Ratio	Lower	Upper	
142	100		
127	38.6	31.6	47.4
141	14.1	11.2	16.8





#11

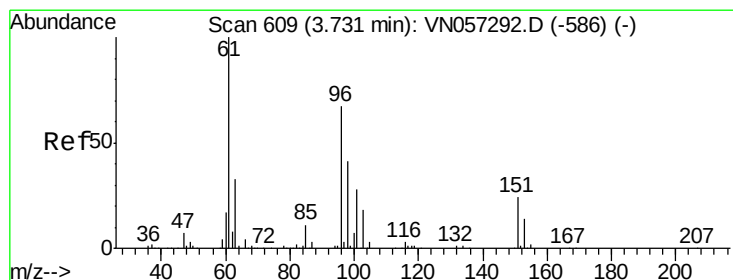
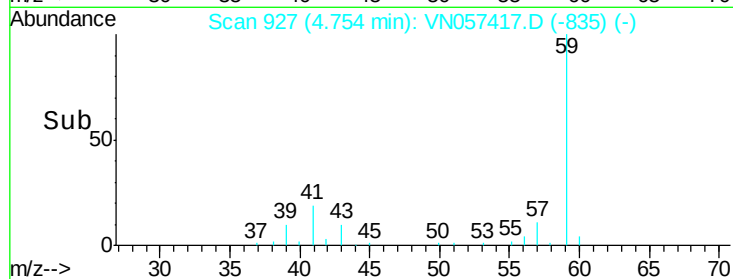
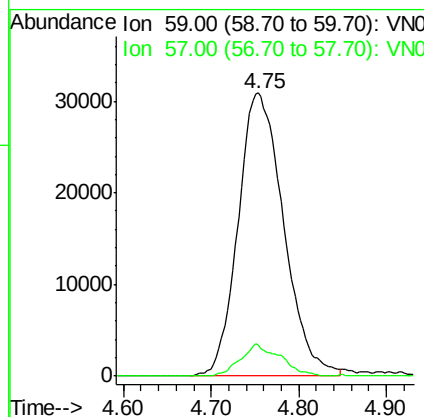
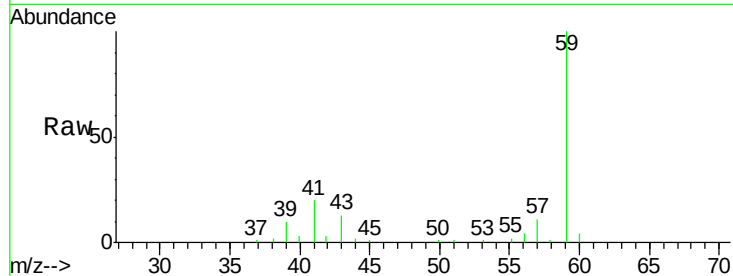
Tert butyl alcohol
 Concen: 87.606 ug/l
 RT: 4.75 min Scan# 927
 Delta R.T. -0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
59	100	111367		
57	9.9	8.2	12.2	

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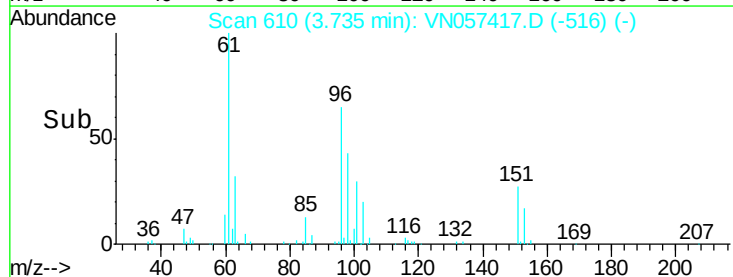
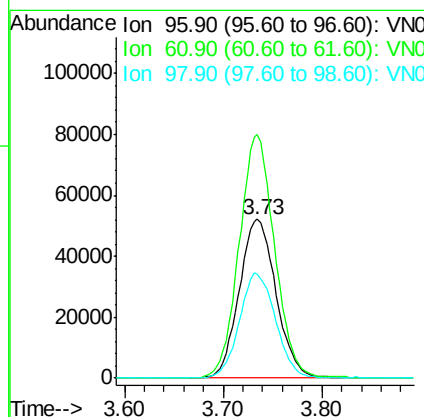
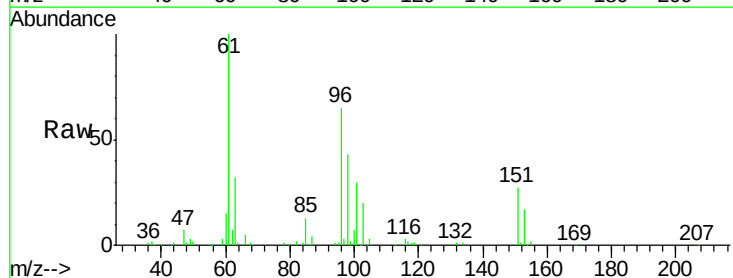
MMDadoda
 8/21/2019 9:45:37 AM

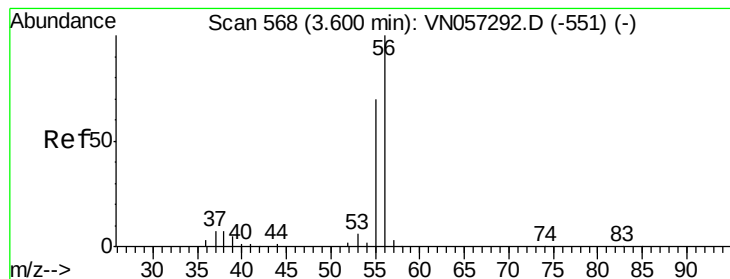


#12

1,1-Dichloroethene
 Concen: 18.674 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. 0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	134770		
61	153.3	119.7	179.5	
98	65.8	49.0	73.4	





#13

Acrolein

Concen: 48.749 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBSD02

Tot Ion: 56 Resp: 37621

Ion Ratio Lower Upper

56 100

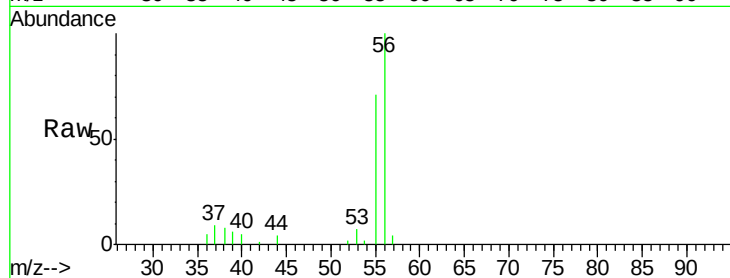
55 68.7 56.6 84.8

Manual Integrations

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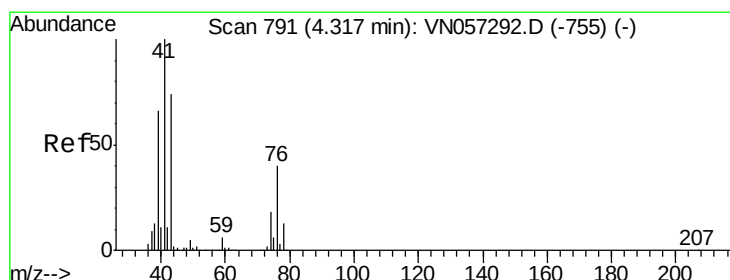
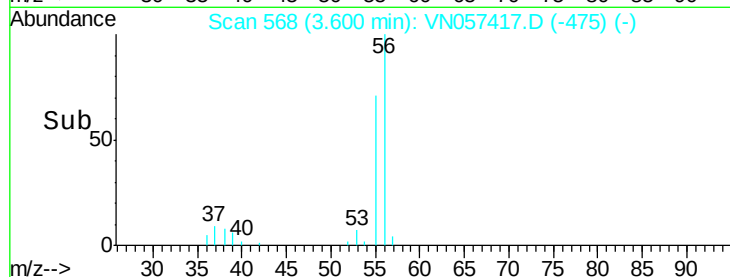
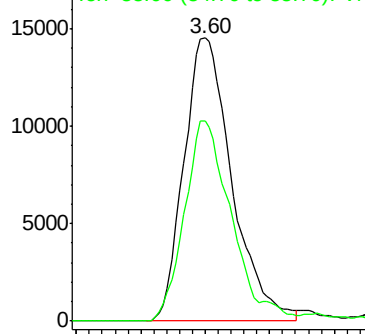
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 16.144 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

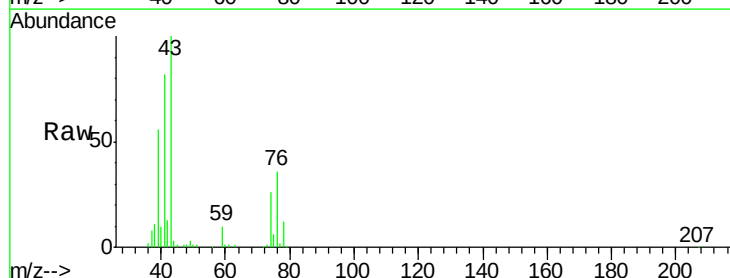
Tgt Ion: 41 Resp: 186768

Ion Ratio Lower Upper

41 100

39 66.5 49.0 73.6

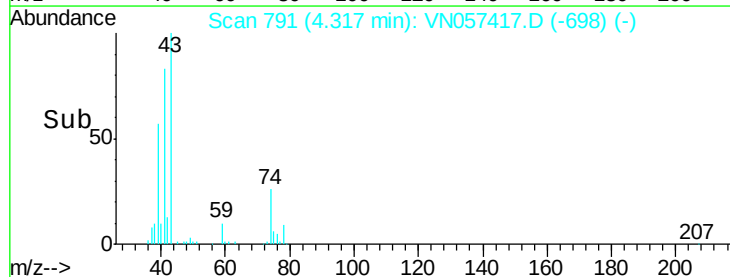
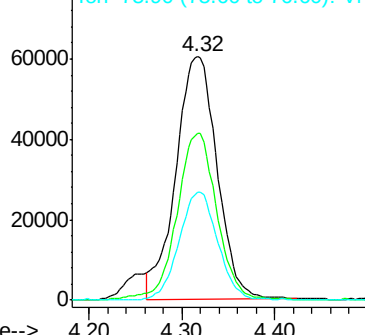
76 41.6 29.0 43.4

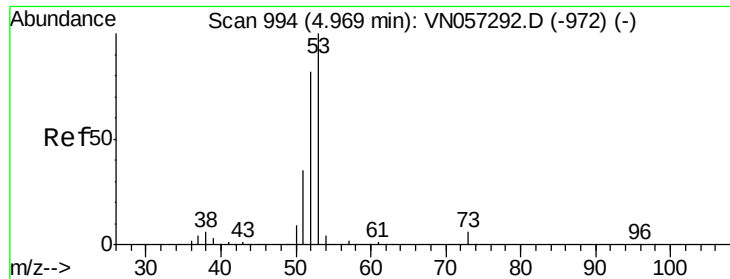


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 90.494 ug/l

RT: 4.97 min Scan# 994

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

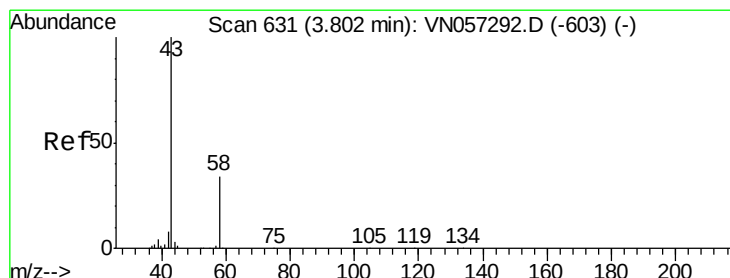
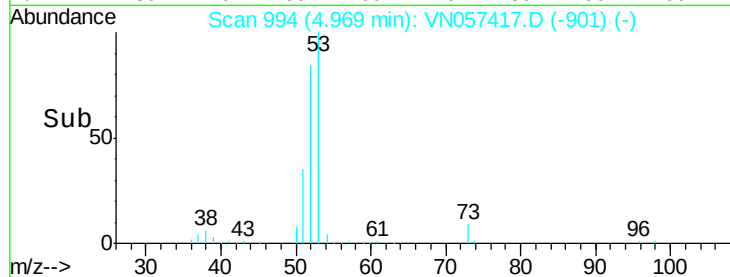
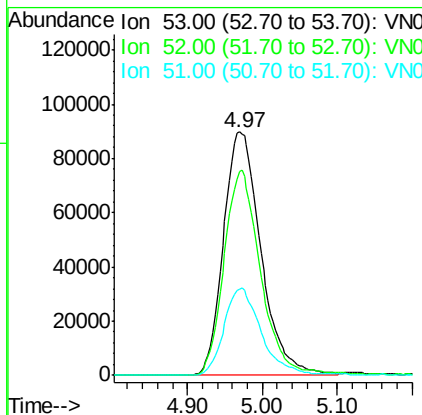
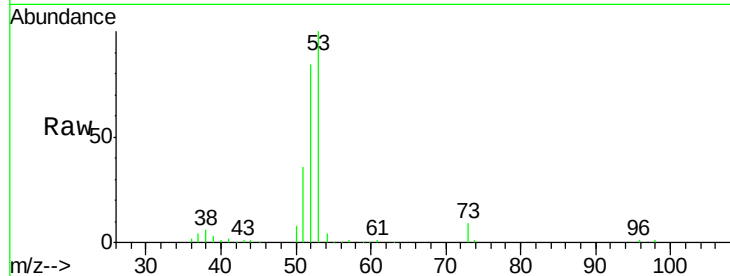
ClientSampleId :

VN0819WBSD02

Tot Ion:	53	Resp:	312320
Ion Ratio	Lower	Upper	
53	100		
52	81.5	66.2	99.2
51	35.7	28.5	42.7

Manual Integrations
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#16

Acetone

Concen: 77.197 ug/l

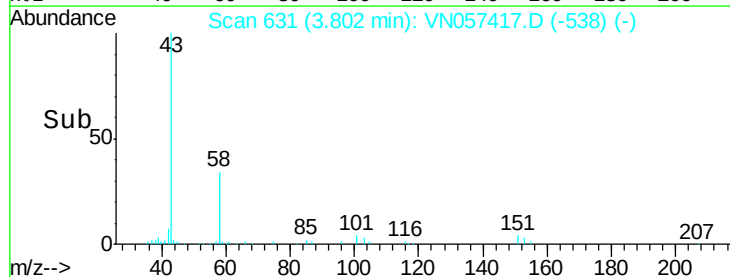
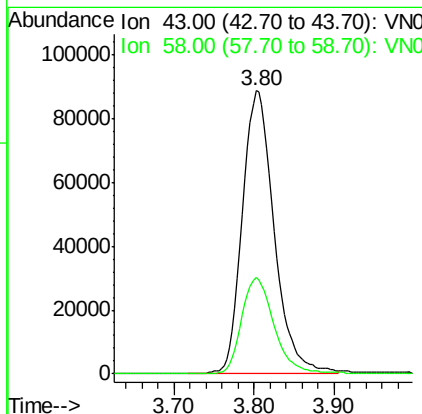
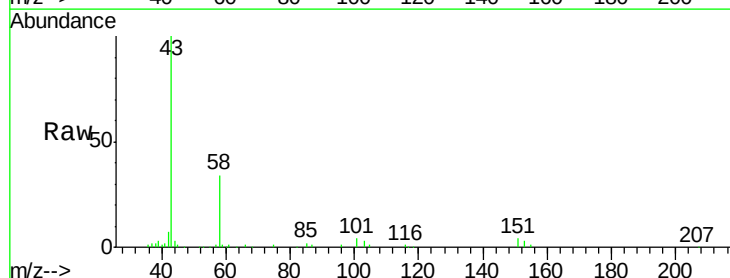
RT: 3.80 min Scan# 631

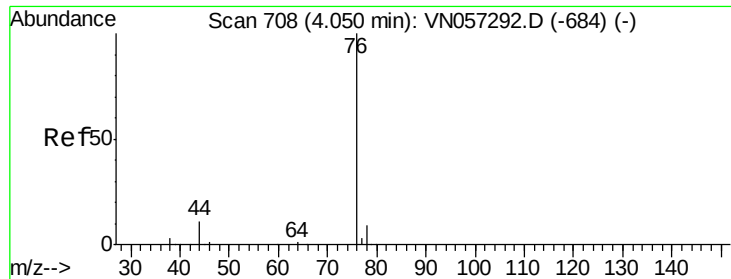
Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Tgt Ion:	43	Resp:	239461
Ion Ratio	Lower	Upper	
43	100		
58	33.9	27.0	40.6





#17

Carbon Disulfide

Concen: 17.235 ug/l

RT: 4.05 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBSD02

Tot Ion: 76 Resp: 335102

Ion Ratio Lower Upper

76 100

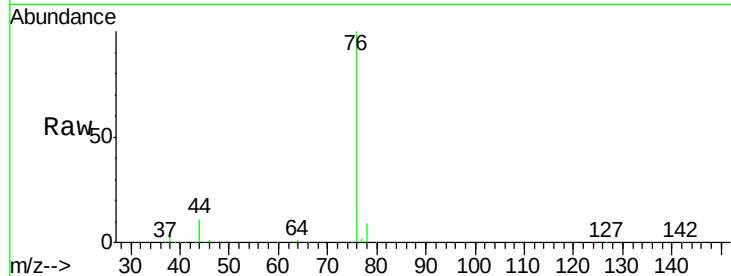
78 9.4 7.0 10.6

Manual Integrations

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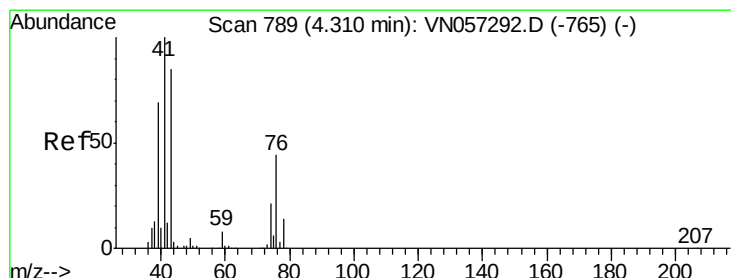
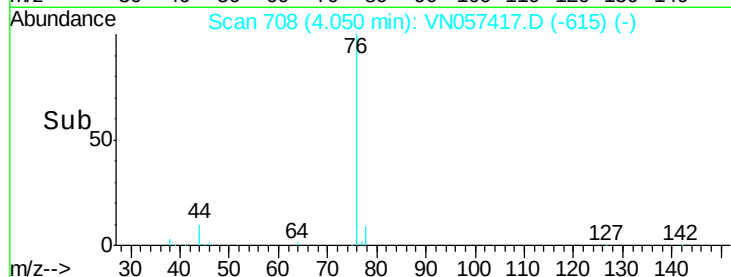
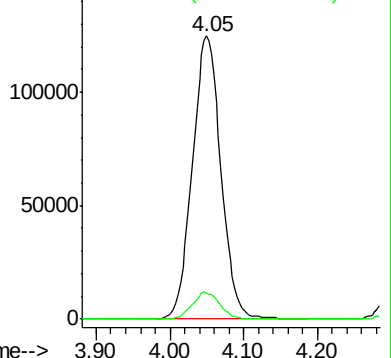
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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 25.747 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN057417.D

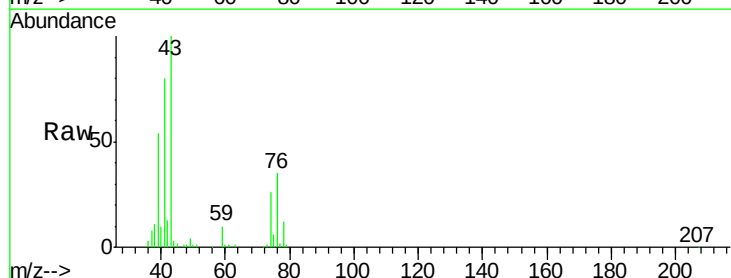
Acq: 19 Aug 2019 23:12

Tgt Ion: 43 Resp: 223132

Ion Ratio Lower Upper

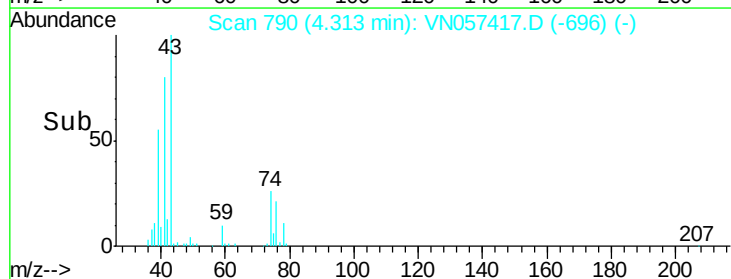
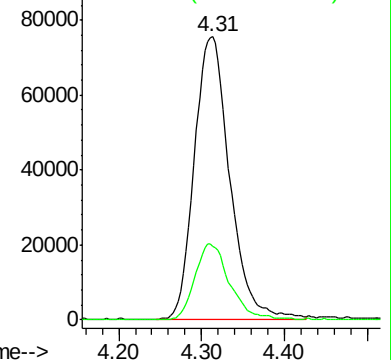
43 100

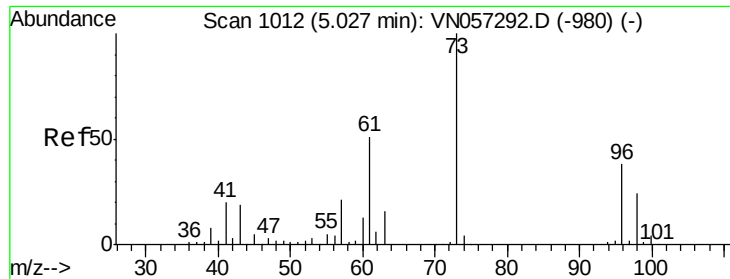
74 26.3 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





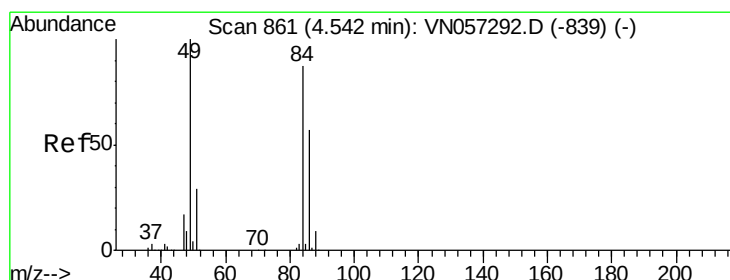
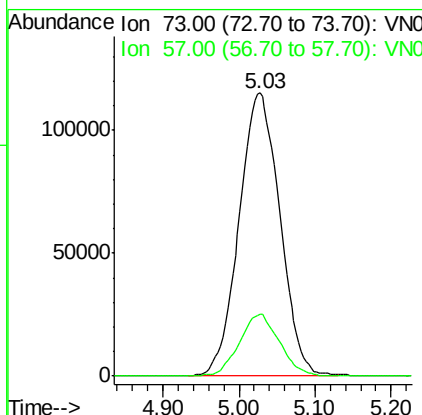
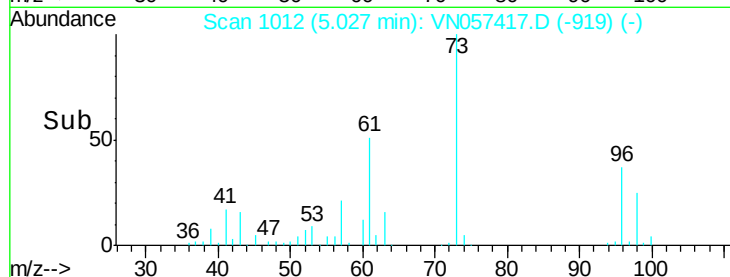
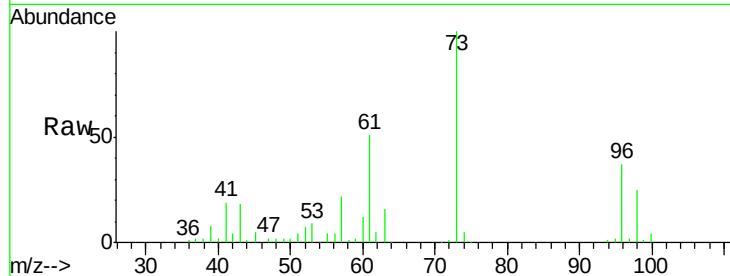
#19
Methyl tert-butyl Ether
Concen: 18.974 ug/l
RT: 5.03 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Instrument :
MSVOA_N
ClientSampled :
VN0819WBSD02

Tot Ion: 73 Resp: 429660
Ion Ratio Lower Upper
73 100
57 21.9 16.9 25.3

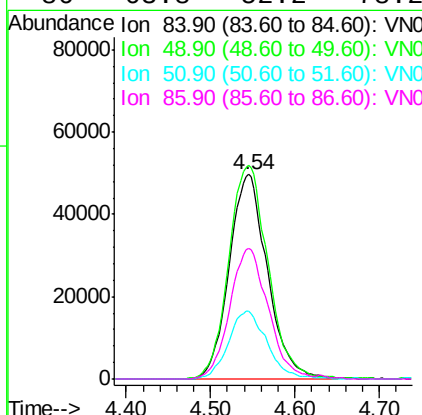
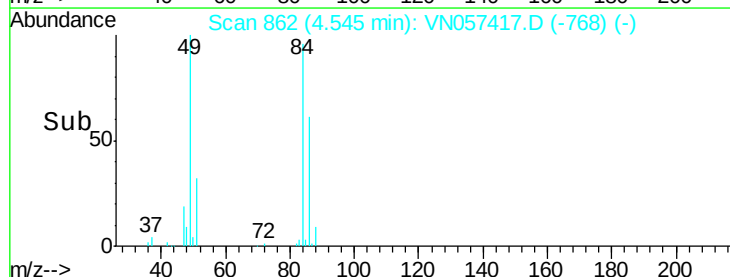
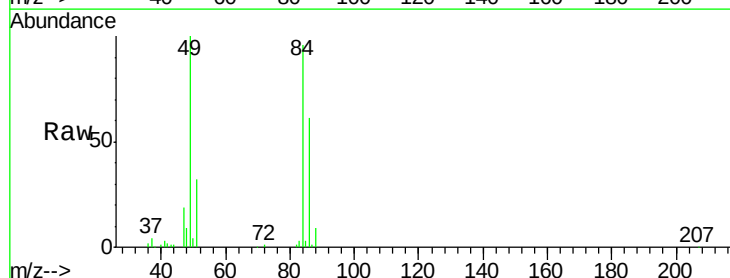
Manual Integrations
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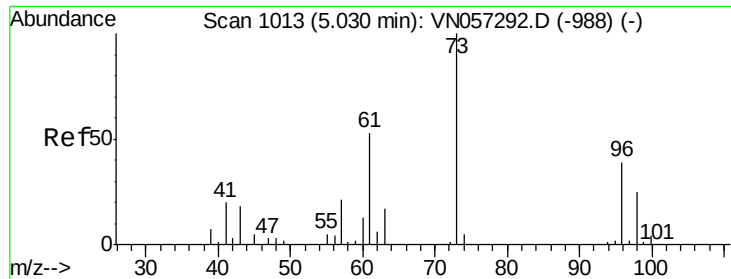
MMDadoda
8/21/2019 9:45:37 AM



#20
Methylene Chloride
Concen: 18.071 ug/l
RT: 4.54 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Tgt Ion: 84 Resp: 156840
Ion Ratio Lower Upper
84 100
49 104.0 92.0 138.0
51 33.0 27.1 40.7
86 63.8 52.2 78.2





#21

trans-1,2-Dichloroethene

Concen: 18.722 ug/l

RT: 5.03 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

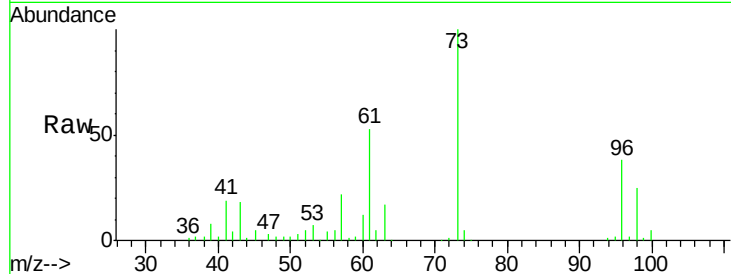
ClientSampleId :

VN0819WBSD02

Tot Ion:	96	Resp:	145304
Ion	Ratio	Lower	Upper
96	100		
61	140.0	109.5	164.3
98	67.6	51.0	76.6

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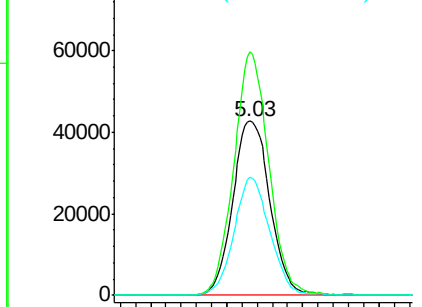


Abundance

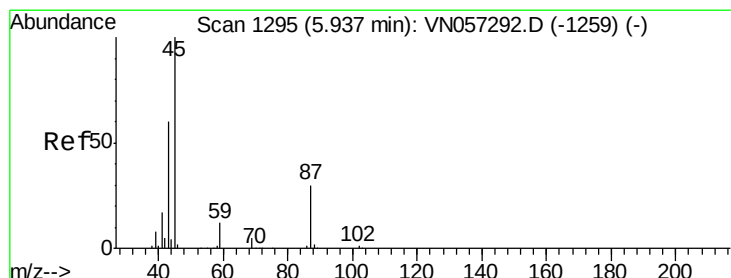
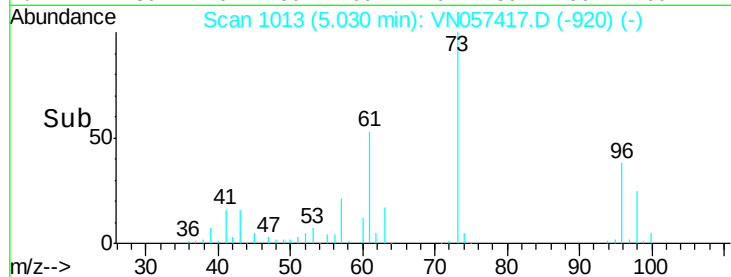
Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



Time-->



#22

Diisopropyl ether

Concen: 18.180 ug/l

RT: 5.93 min Scan# 1294

Delta R.T. -0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Tgt Ion:	45	Resp:	415456
Ion	Ratio	Lower	Upper
45	100		
43	64.2	48.3	72.5
87	30.9	24.6	36.8
59	11.8	9.8	14.8

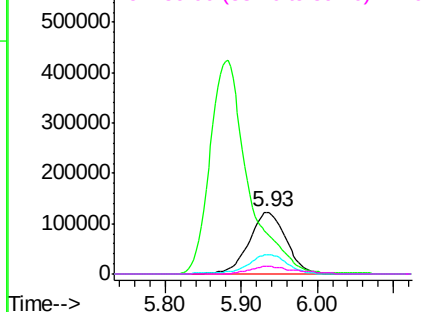
Abundance

Ion 45.00 (44.70 to 45.70): VN0

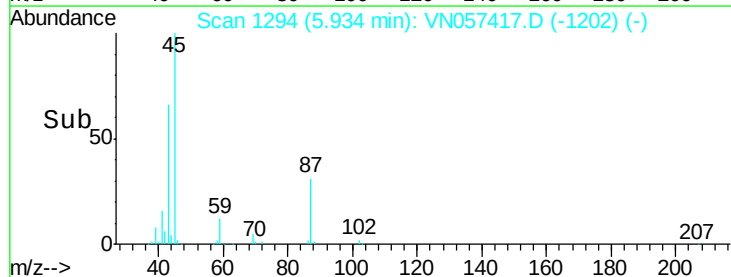
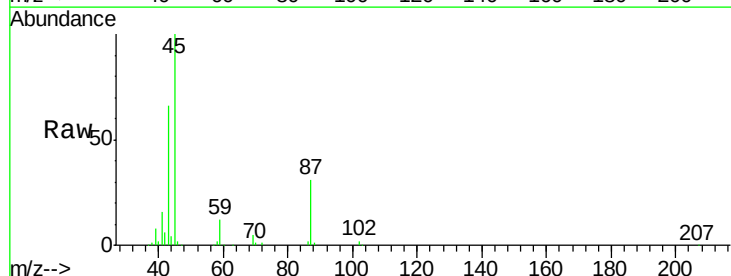
Ion 43.00 (42.70 to 43.70): VN0

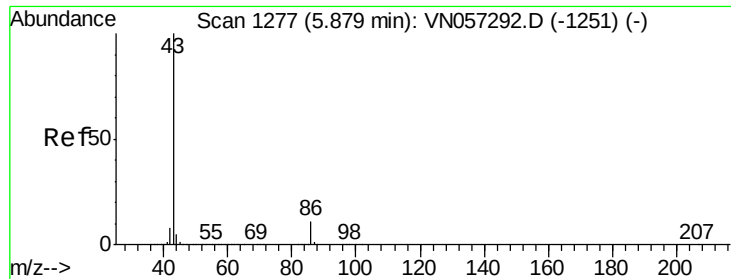
Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0



Time-->





#23

Vinyl Acetate

Concen: 80.160 ug/l

RT: 5.88 min Scan# 1278

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBSD02

Tot Ion: 43 Resp: 1474323

Ion Ratio Lower Upper

43 100

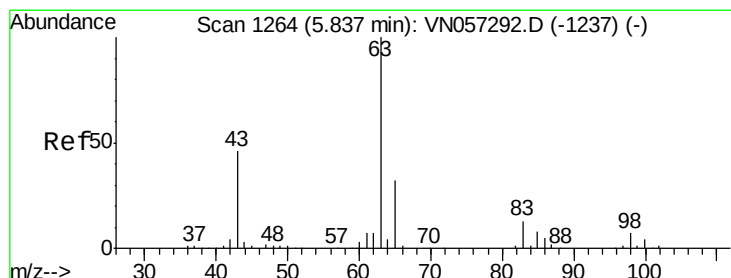
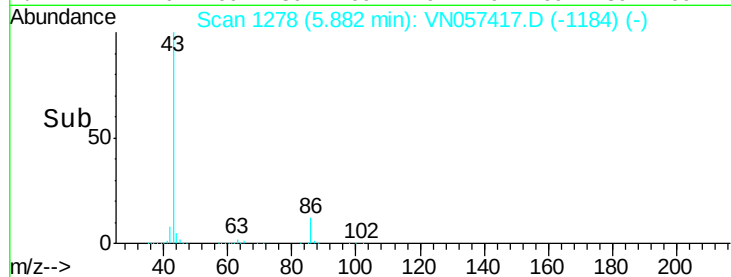
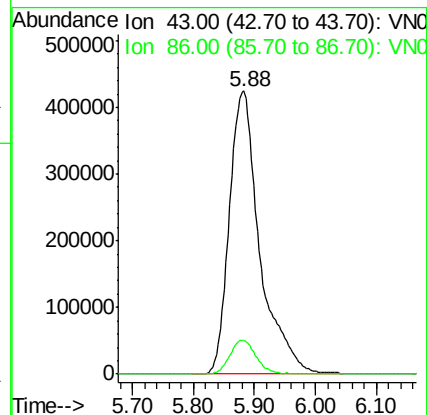
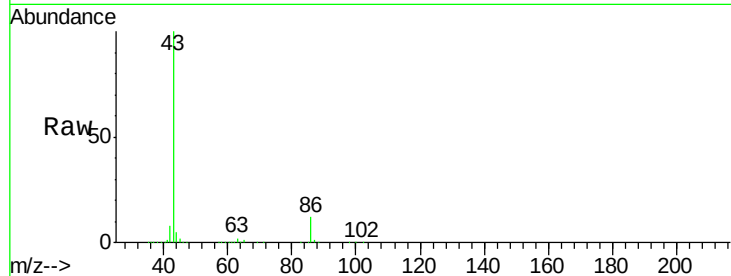
86 11.7 8.7 13.1

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#24

1,1-Dichloroethane

Concen: 18.606 ug/l

RT: 5.84 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

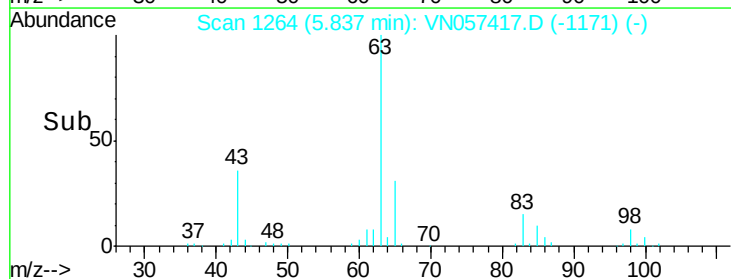
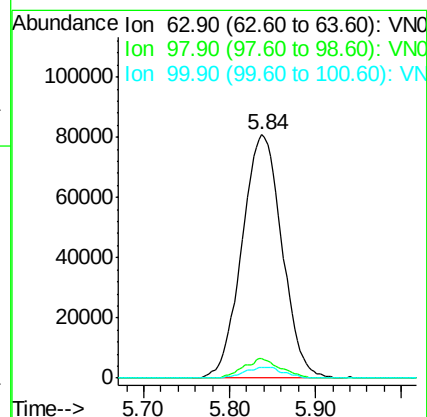
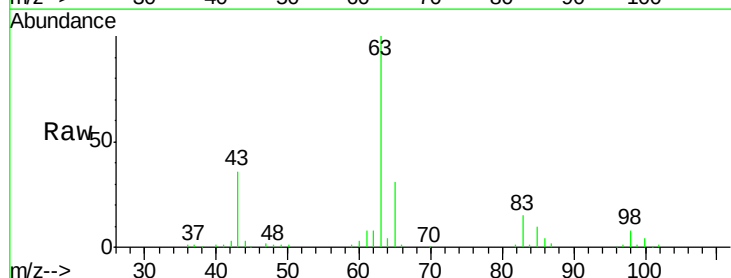
Tgt Ion: 63 Resp: 261591

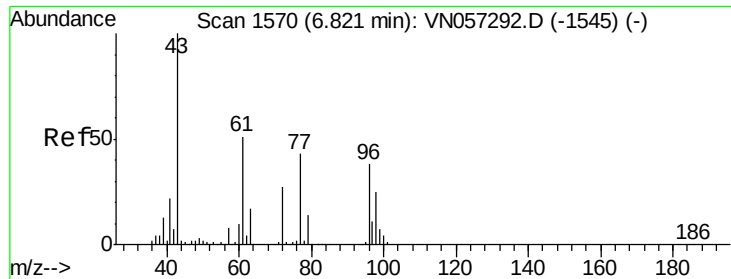
Ion Ratio Lower Upper

63 100

98 8.2 3.3 9.9

100 4.2 2.1 6.5





#25

2-Butanone

Concen: 83.711 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. -0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBSD02

Tot Ion: 43 Resp: 376029

Ion Ratio Lower Upper

43 100

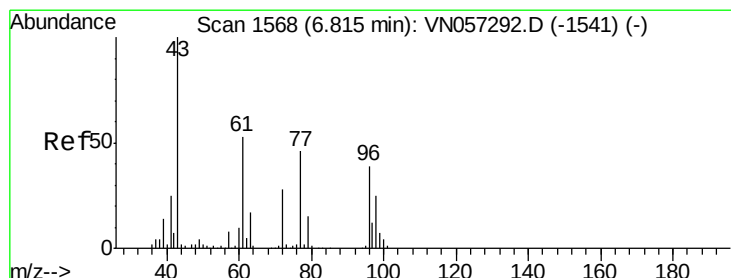
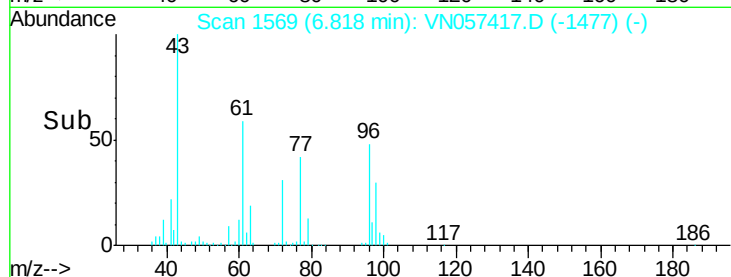
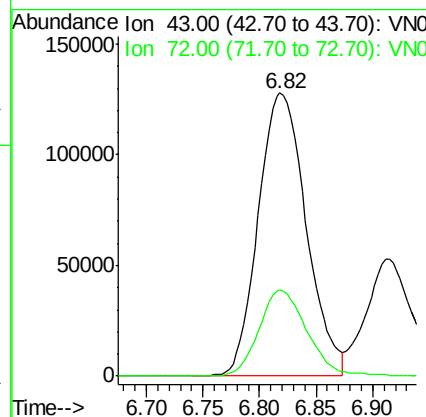
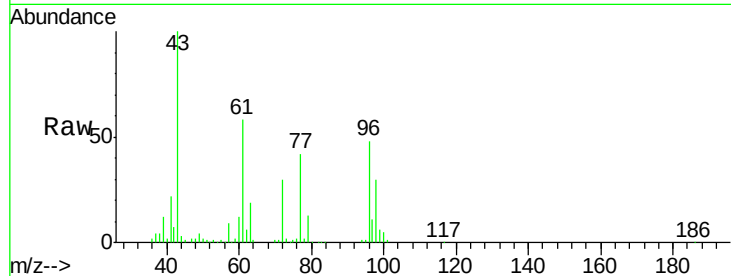
72 30.5 21.5 32.3

Manual Integrations

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MMDadoda

8/21/2019 9:45:37 AM



#26

2,2-Dichloropropane

Concen: 15.661 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN057417.D

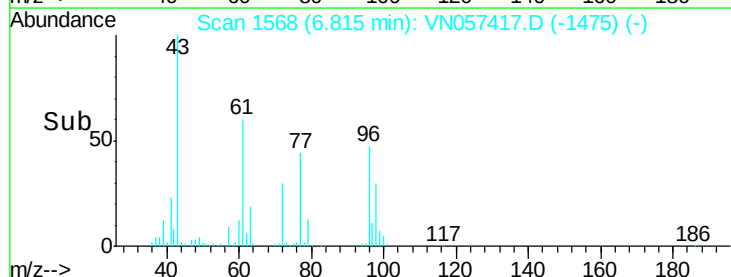
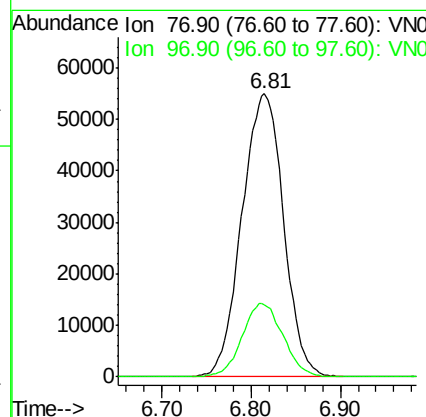
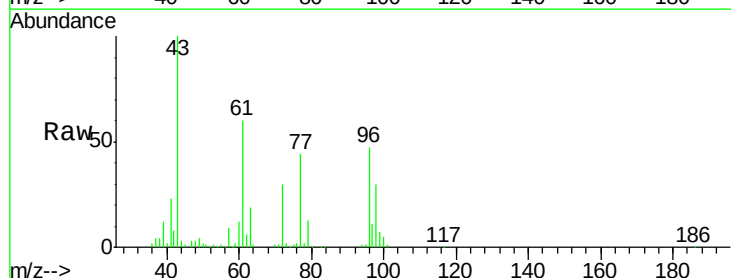
Acq: 19 Aug 2019 23:12

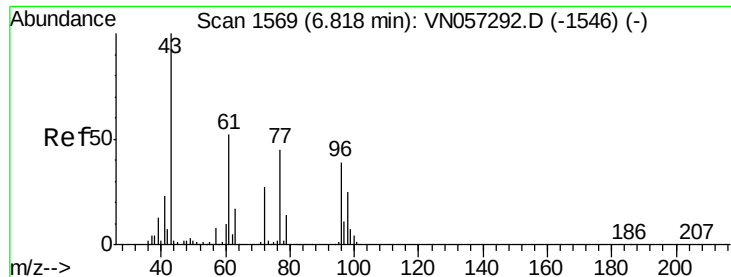
Tgt Ion: 77 Resp: 177956

Ion Ratio Lower Upper

77 100

97 25.4 12.3 36.9





#27

cis-1,2-Dichloroethene

Concen: 19.210 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

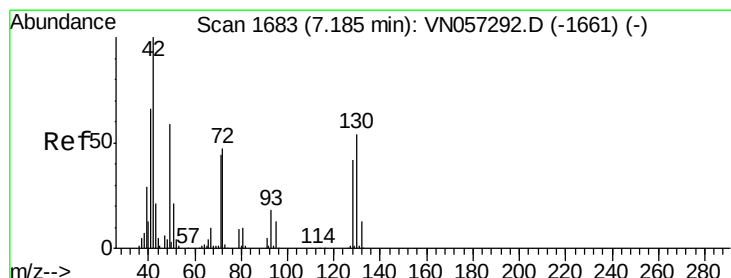
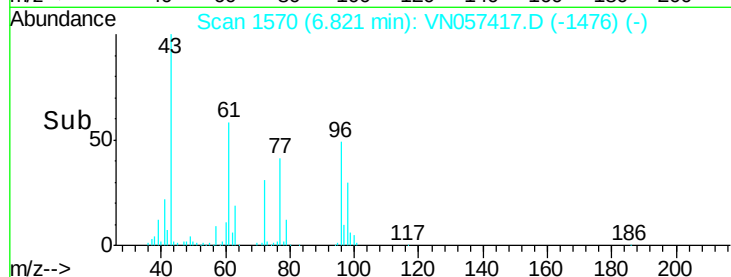
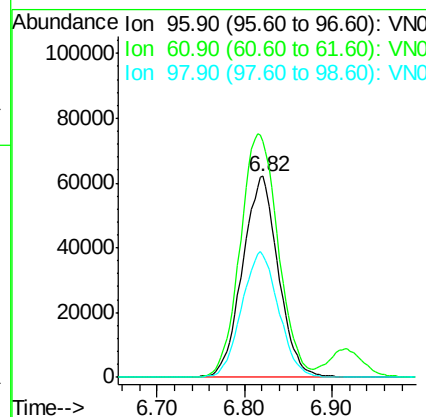
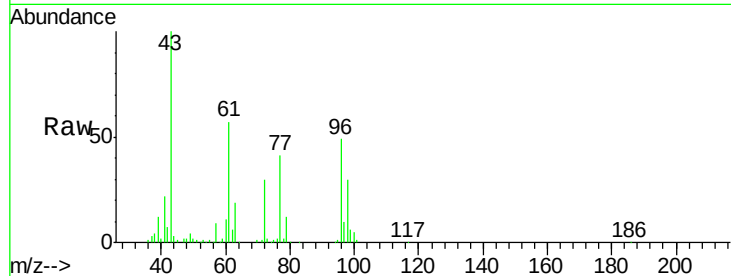
ClientSampleId :

VN0819WBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	127.9	0.0	272.0
98	64.1	0.0	130.4

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#28

Bromochloromethane

Concen: 19.474 ug/l

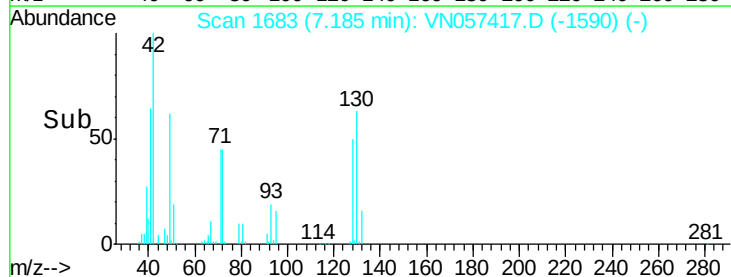
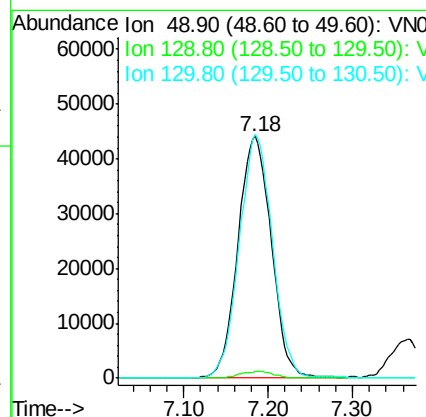
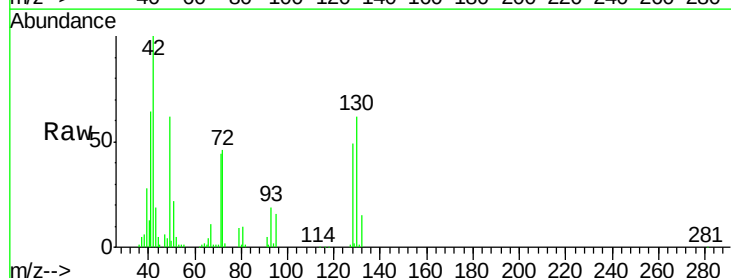
RT: 7.18 min Scan# 1683

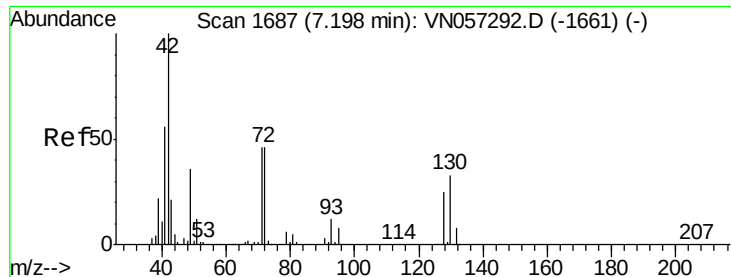
Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	2.0#
130	99.7	73.2	109.8





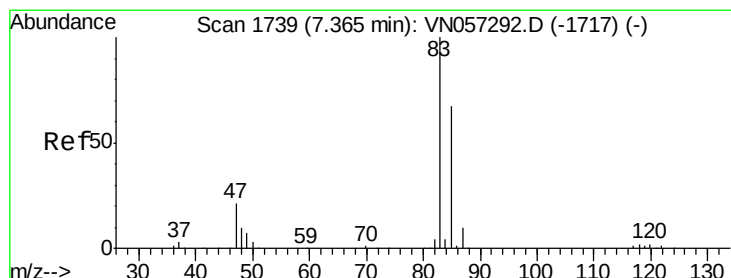
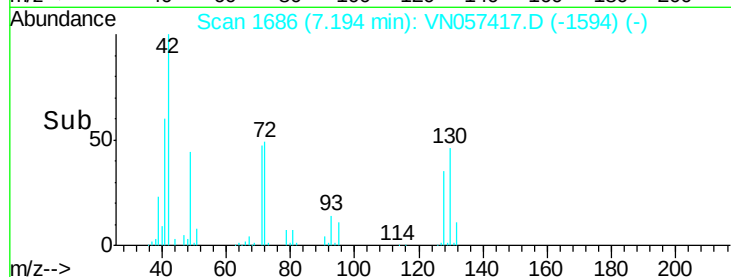
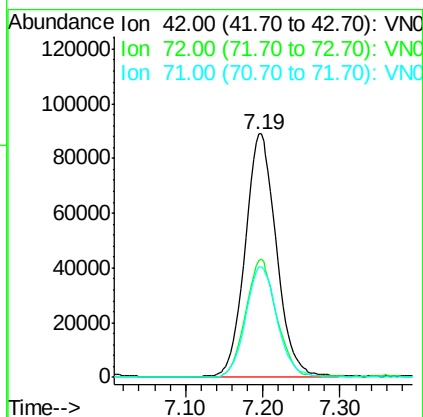
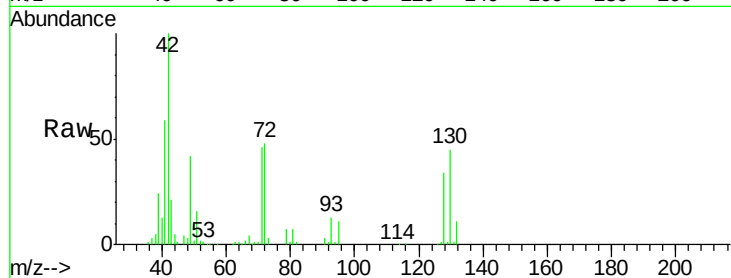
#29
Tetrahydrofuran
Concen: 88.844 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.7	37.8	56.6
71	45.6	35.7	53.5

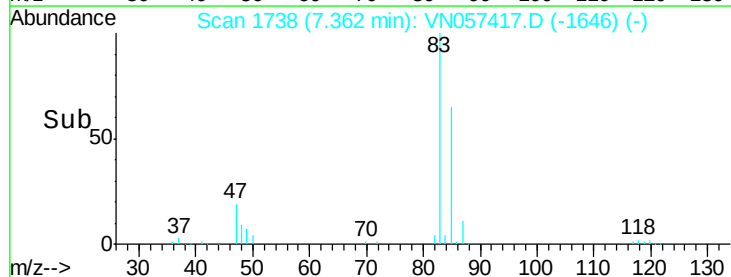
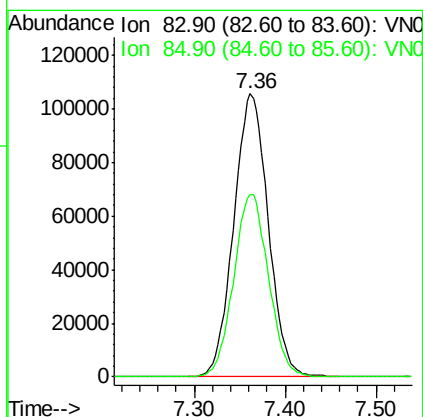
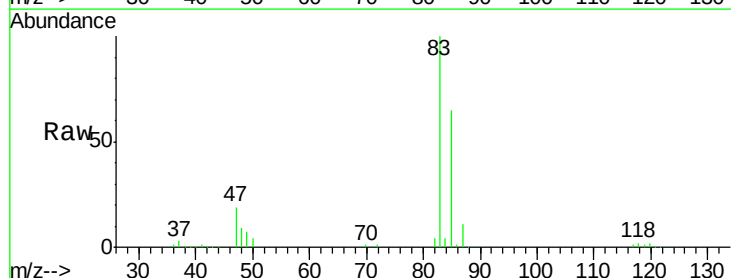
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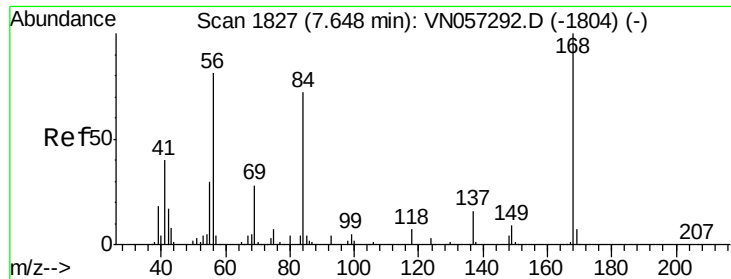
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#30
Chloroform
Concen: 18.872 ug/l
RT: 7.36 min Scan# 1738
Delta R.T. -0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	53.3	79.9





#31

Cyclohexane

Concen: 17.657 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

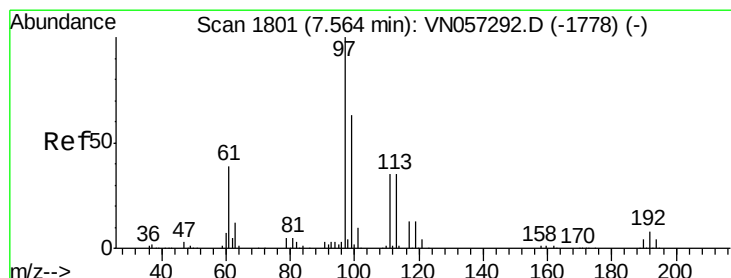
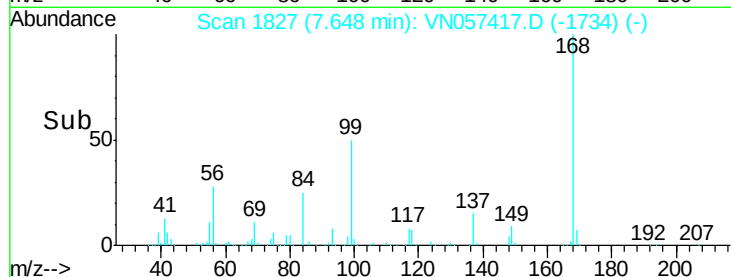
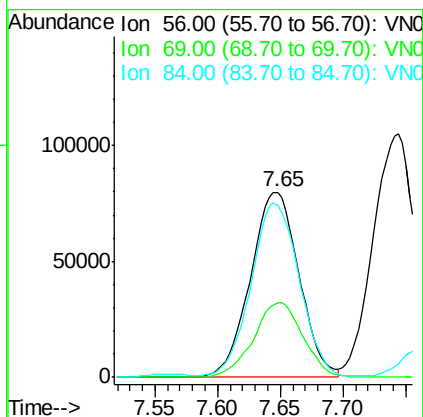
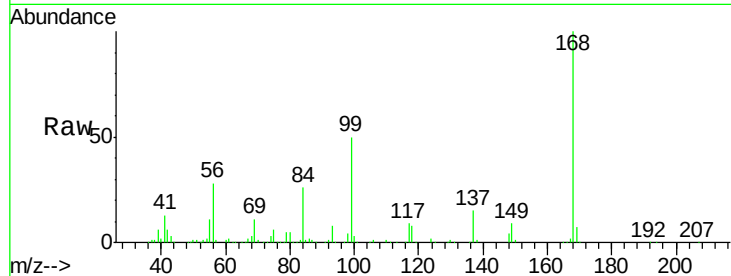
ClientSampleId :

VN0819WBSD02

Tot Ion:	56	Resp:	215133
Ion Ratio	Lower	Upper	
56	100		
69	40.1	27.3	40.9
84	91.5	71.0	106.6

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#32

1,1,1-Trichloroethane

Concen: 19.557 ug/l

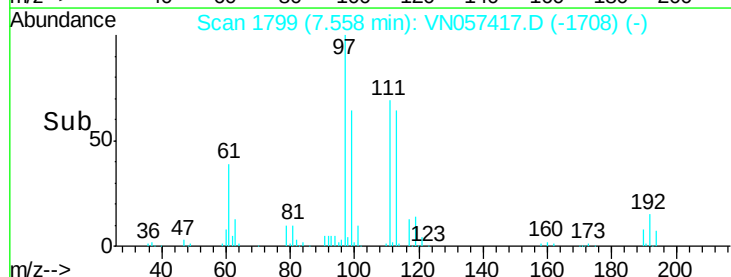
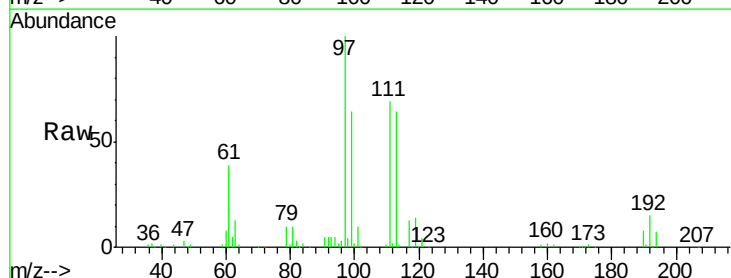
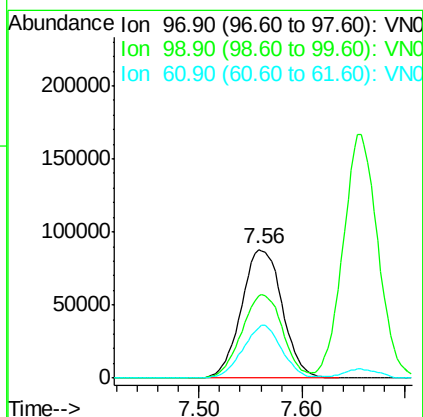
RT: 7.56 min Scan# 1799

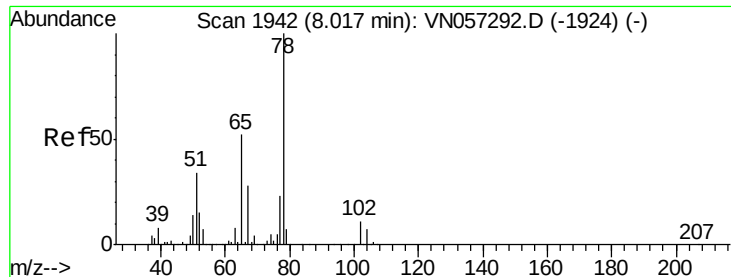
Delta R.T. -0.01 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Tgt Ion:	97	Resp:	242359
Ion Ratio	Lower	Upper	
97	100		
99	65.3	50.3	75.5
61	38.9	31.3	46.9





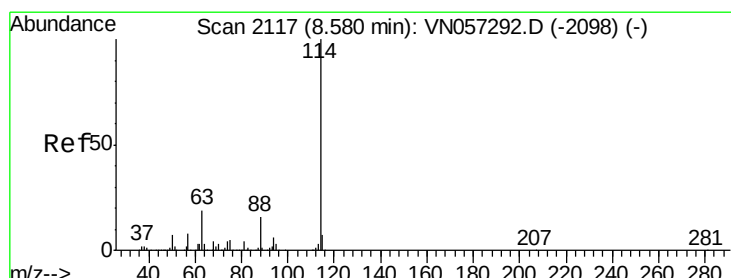
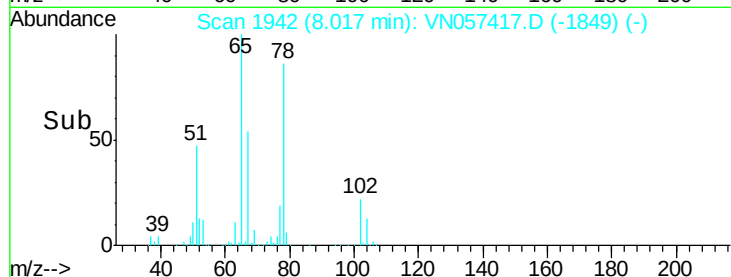
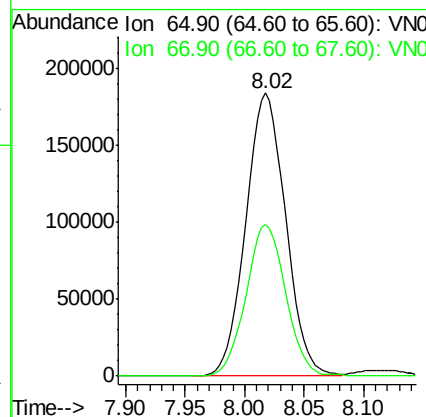
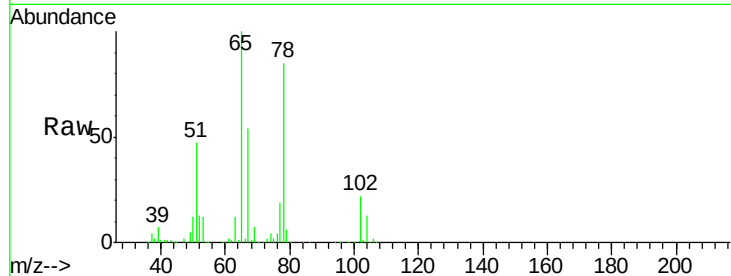
#33
 1,2-Dichloroethane-d4
 Concen: 47.692 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. 0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.5	0.0	107.4	

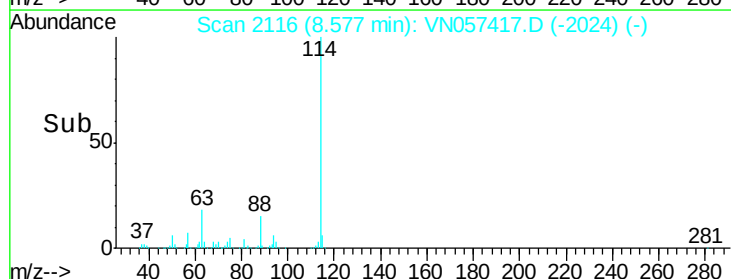
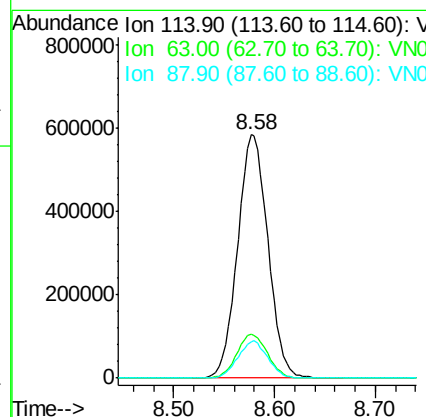
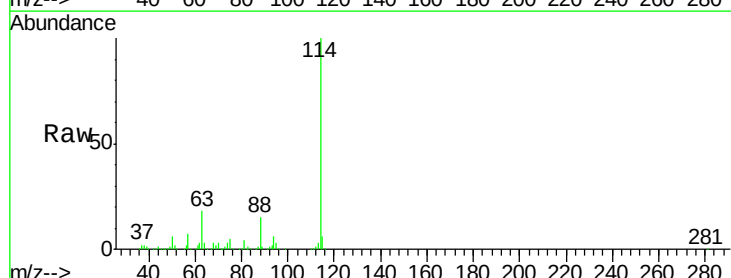
Manual Integrations
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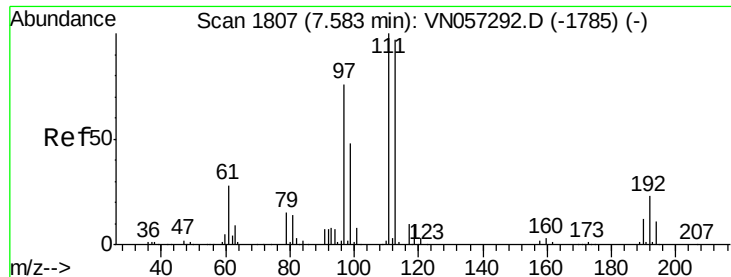
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. -0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	17.9	0.0	38.8	
88	14.8	0.0	31.4	





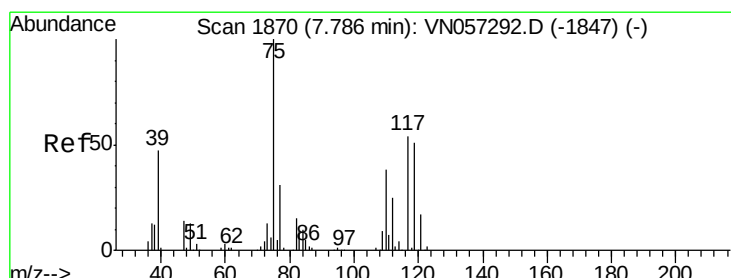
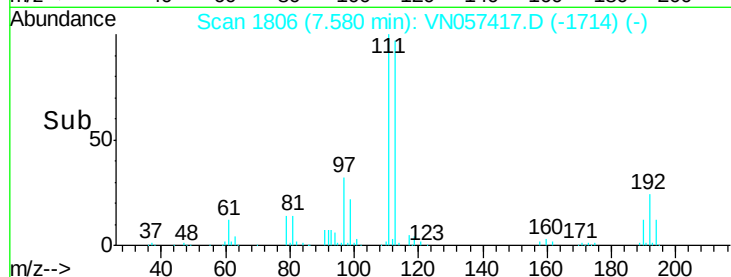
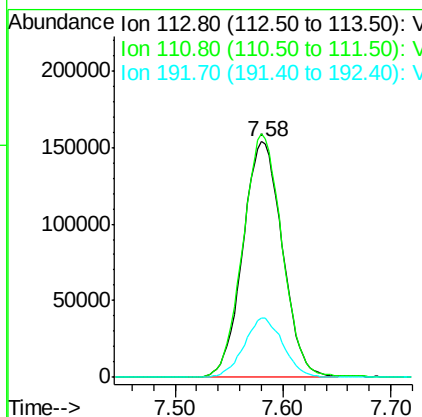
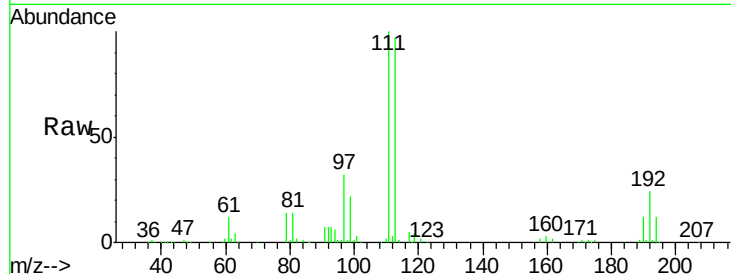
#35
 Dibromofluoromethane
 Concen: 49.126 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	391592		
111	102.3	82.1	123.1	
192	24.6	19.3	28.9	

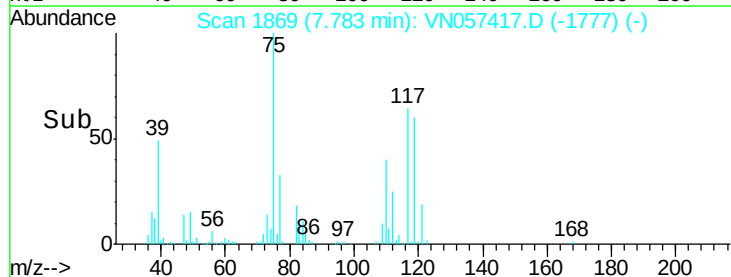
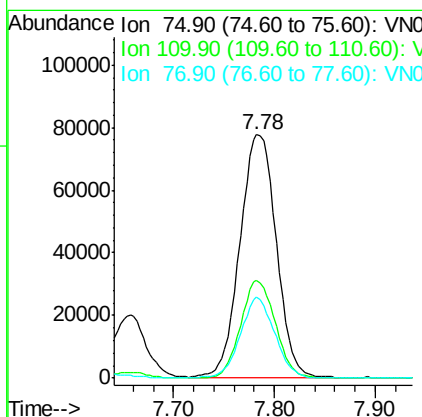
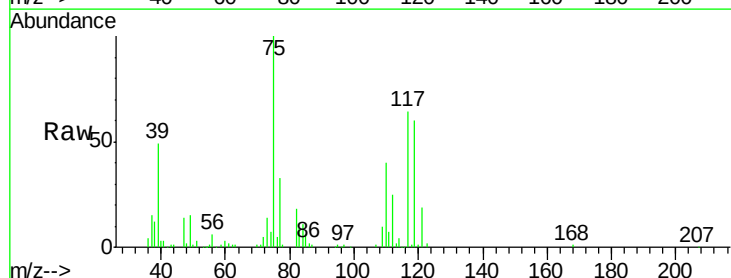
Manual Integrations
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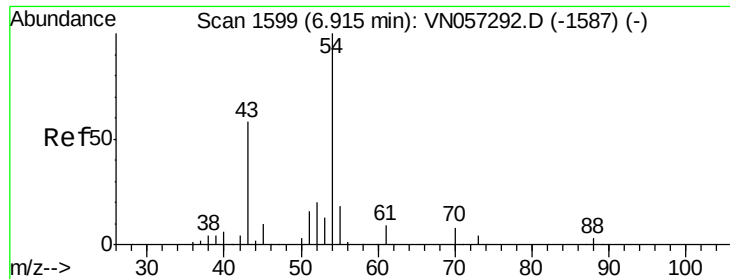
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 18.008 ug/l
 RT: 7.78 min Scan# 1869
 Delta R.T. -0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	193344		
110	38.5	19.5	58.5	
77	31.5	25.0	37.6	





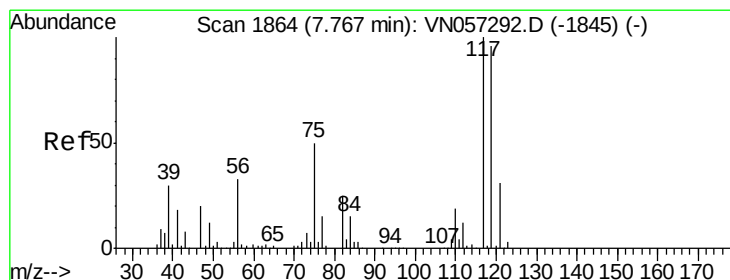
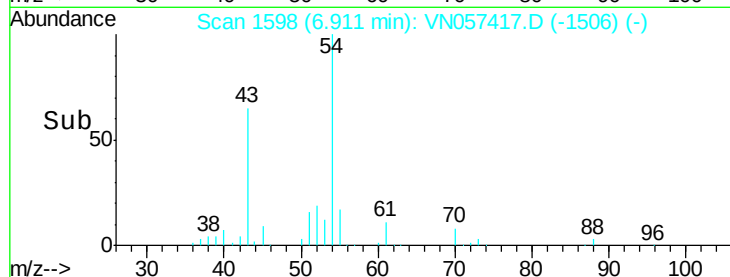
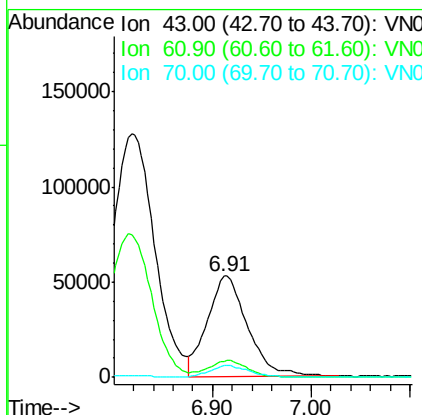
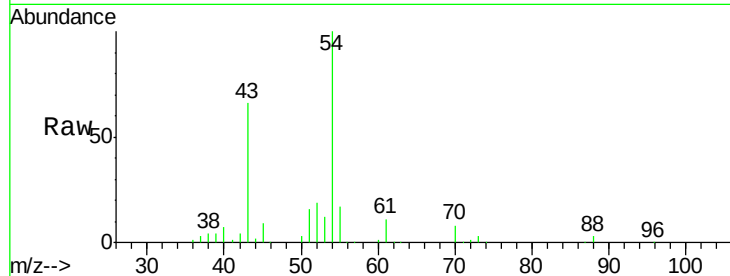
#37
Ethyl Acetate
Concen: 17.033 ug/l
RT: 6.91 min Scan# 1598
Delta R.T. -0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBSD02

Tot Ion	43	61	70
Resp	149780		
Ratio	100	16.3	11.7
Lower		12.0	9.2
Upper		18.0	13.8

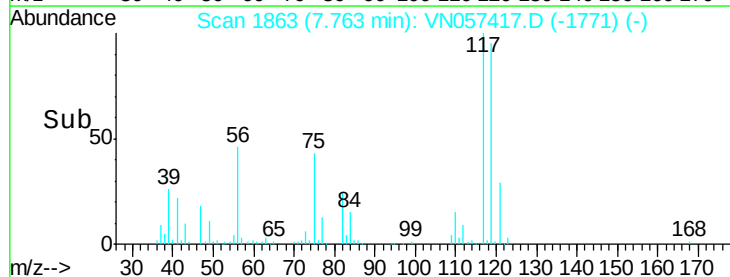
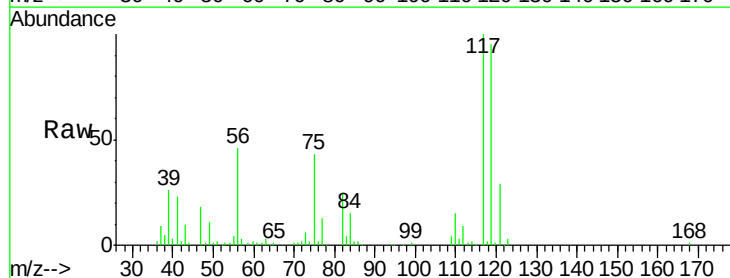
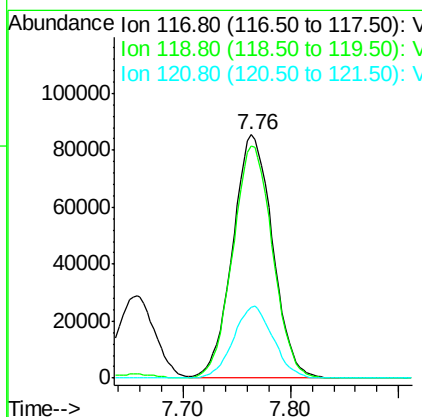
Manual Integrations
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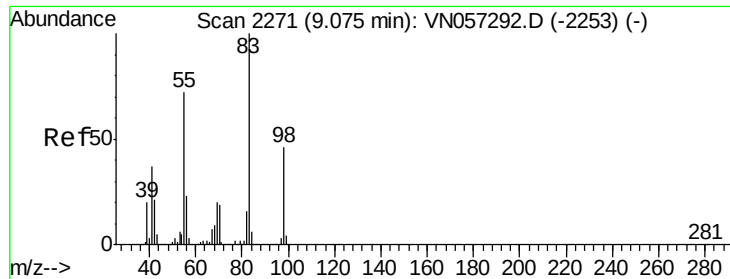
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#38
Carbon Tetrachloride
Concen: 19.718 ug/l
RT: 7.76 min Scan# 1863
Delta R.T. -0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Tgt Ion	117	119	121
Resp	219961		
Ratio	100	95.0	28.9
Lower		76.8	25.0
Upper		115.2	37.4





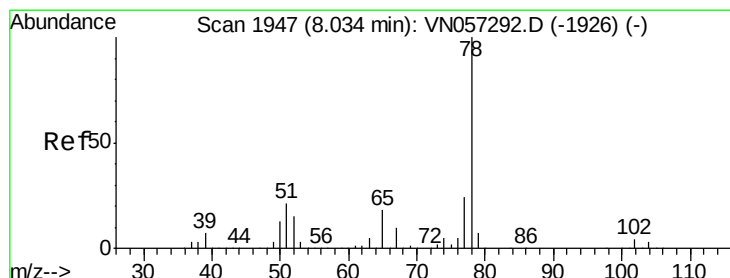
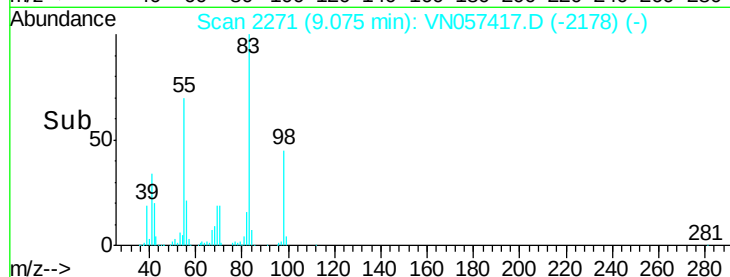
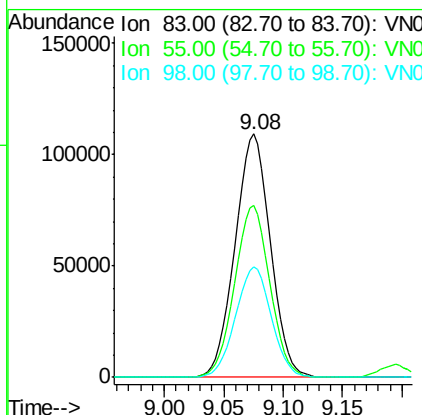
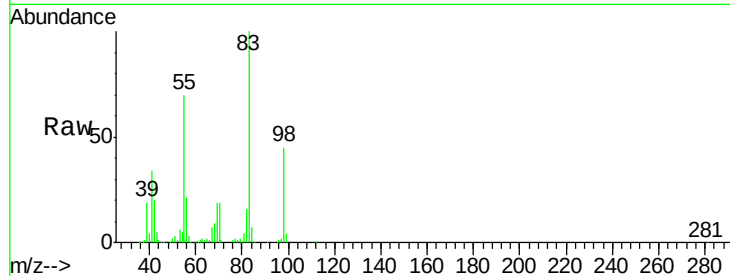
#39
Methylvlcyclohexane
Concen: 18.008 ug/l
RT: 9.08 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	70.5	57.5	86.3
98	45.2	36.6	55.0

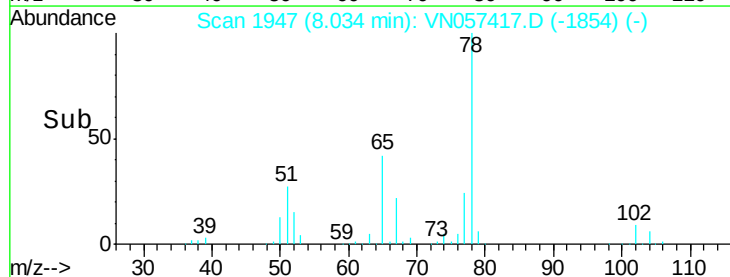
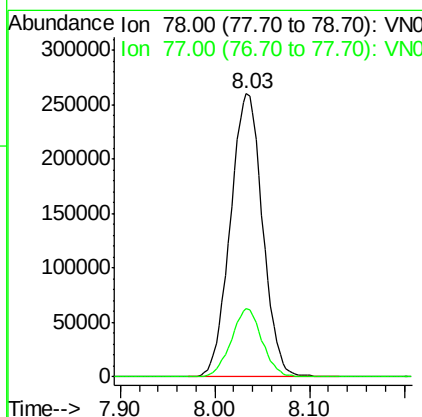
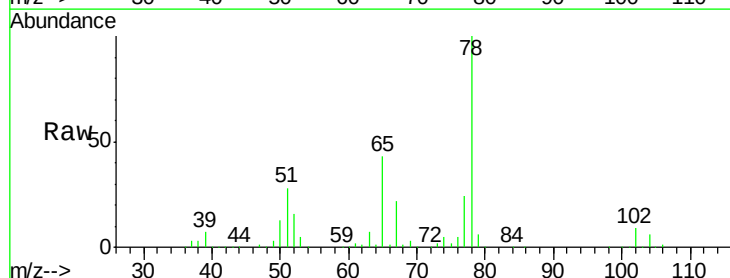
Manual Integrations
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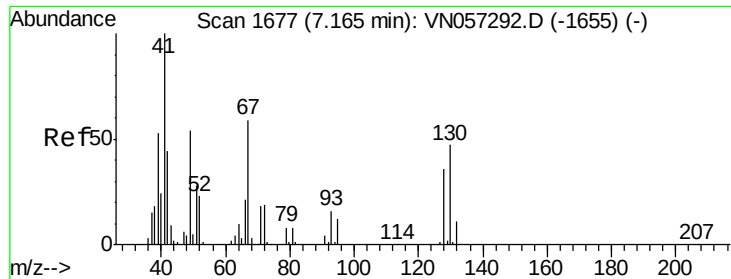
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#40
Benzene
Concen: 18.749 ug/l
RT: 8.03 min Scan# 1947
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.1	28.7





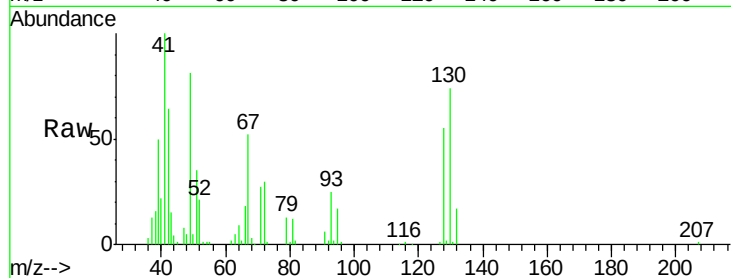
#41
Methacrylonitrile
Concen: 19.726 ug/l m
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBSD02

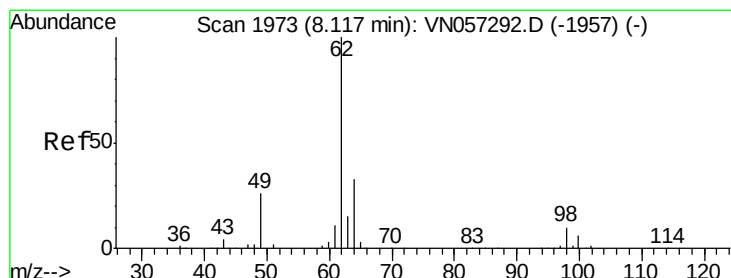
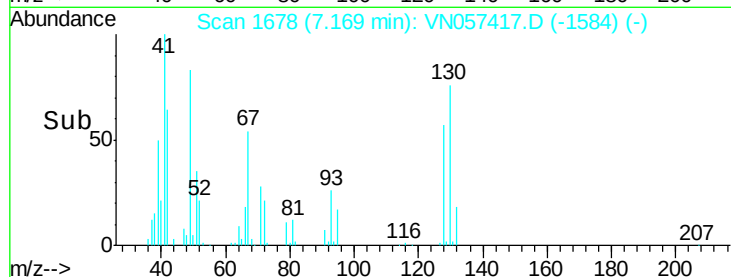
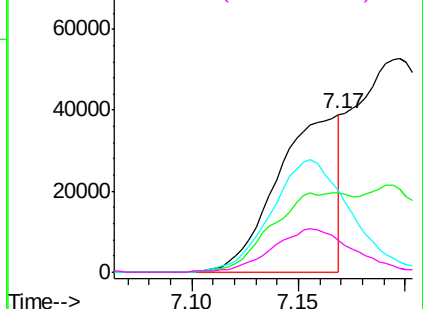
Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

Manual Integrations
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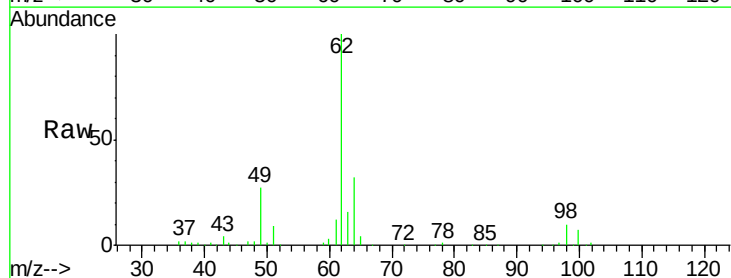


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

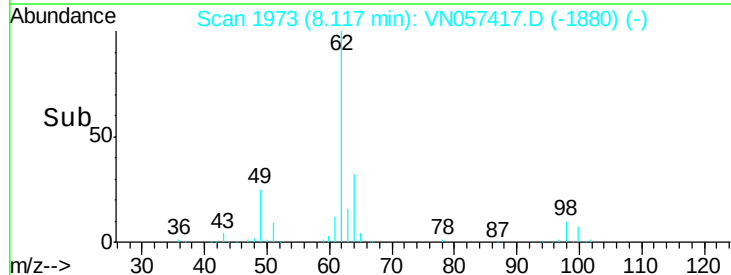
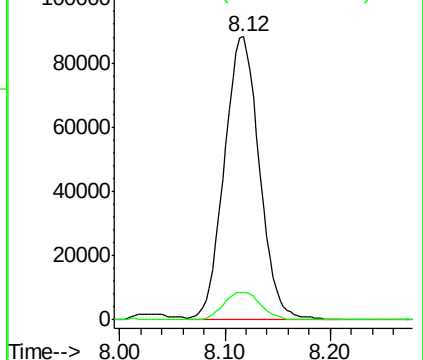


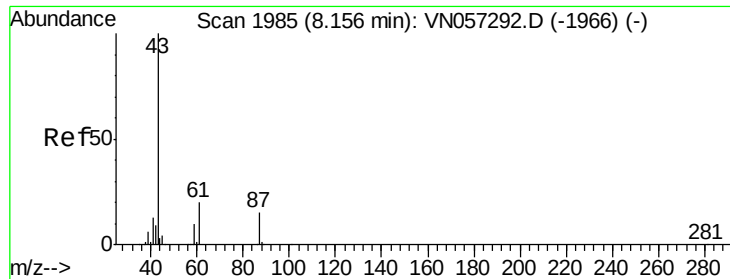
#42
1,2-Dichloroethane
Concen: 18.657 ug/l
RT: 8.12 min Scan# 1973
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	19.4



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 19.202 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

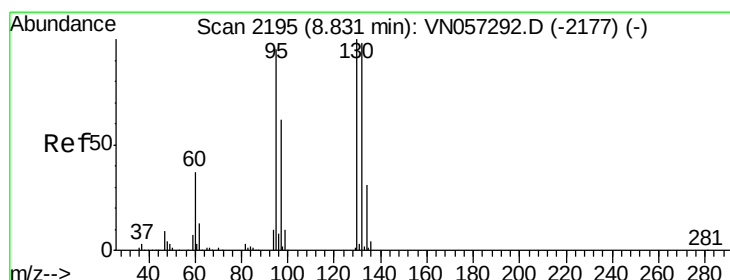
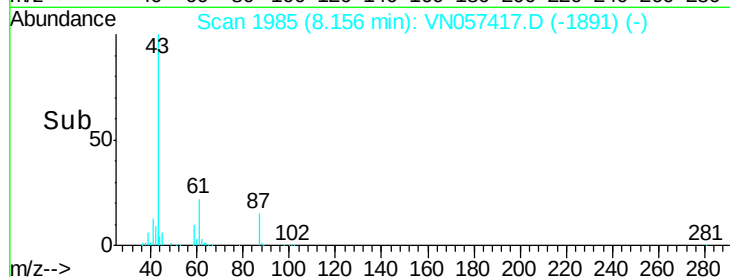
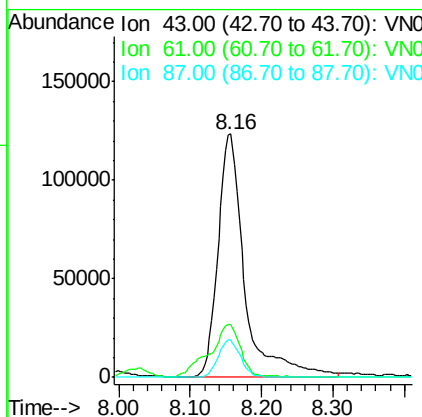
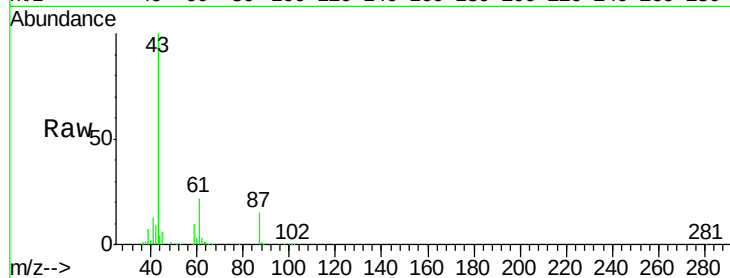
ClientSampleId :

VN0819WBSD02

Tot Ion	43	Resp	319976
Ion	Ratio	Lower	Upper
43	100		
61	24.5	21.6	32.4
87	12.9	11.4	17.0

Manual Integrations
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8/21/2019 9:45:37 AM



#44

Trichloroethene

Concen: 19.750 ug/l

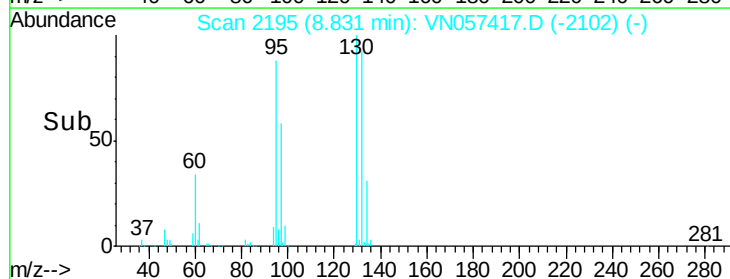
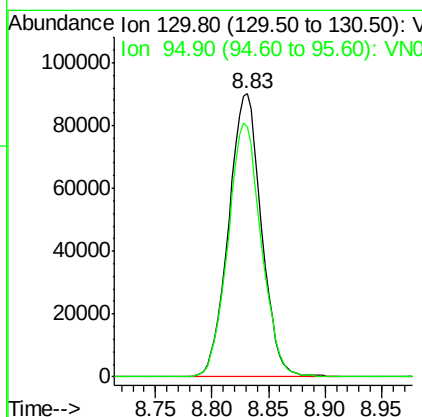
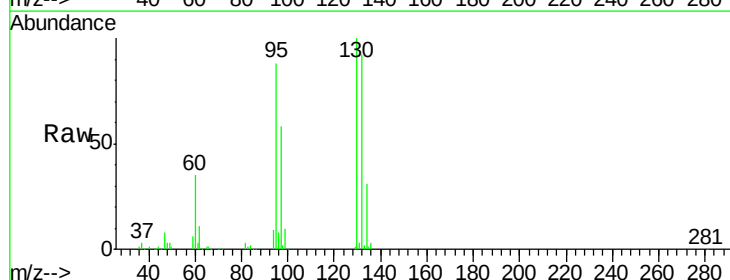
RT: 8.83 min Scan# 2195

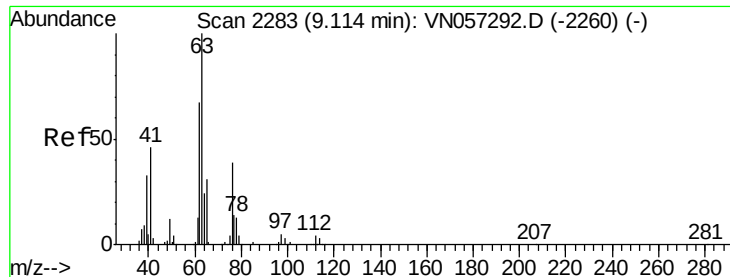
Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Tgt Ion	130	Resp	182339
Ion	Ratio	Lower	Upper
130	100		
95	88.4	0.0	189.2





#45

1,2-Dichloropropane

Concen: 18.661 ug/l

RT: 9.11 min Scan# 2282

Delta R.T. -0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBSD02

Tot Ion: 63 Resp: 157955

Ion Ratio Lower Upper

63 100

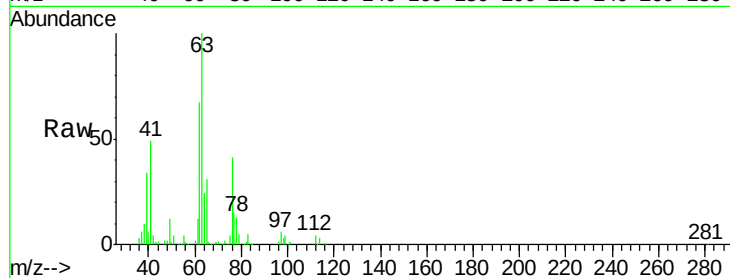
65 31.3 24.8 37.2

Manual Integrations

APPROVED

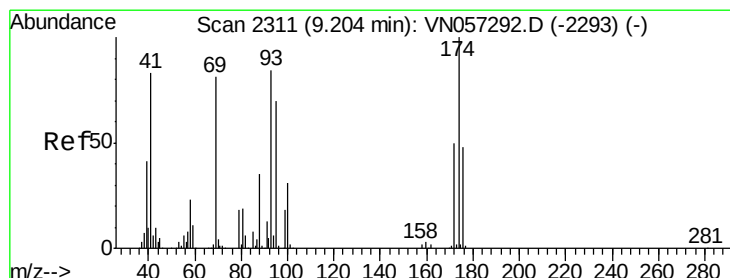
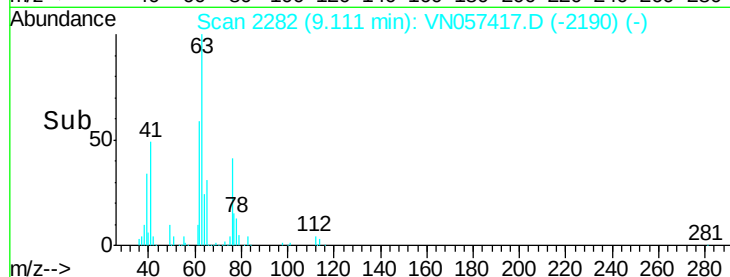
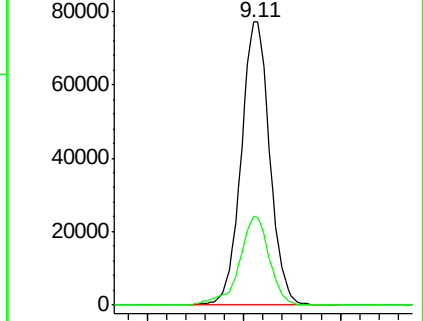
MMDadoda

8/21/2019 9:45:37 AM



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 19.138 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

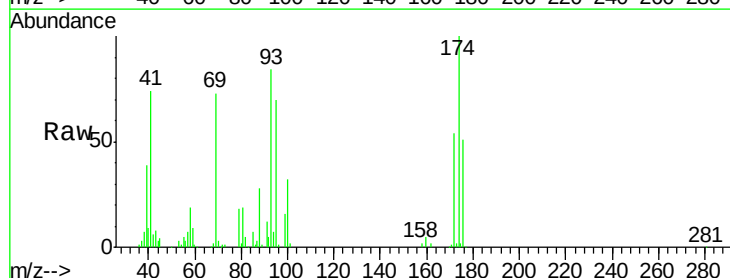
Tgt Ion: 93 Resp: 108073

Ion Ratio Lower Upper

93 100

95 83.5 66.5 99.7

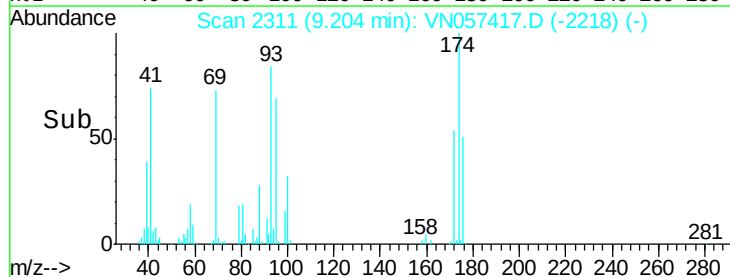
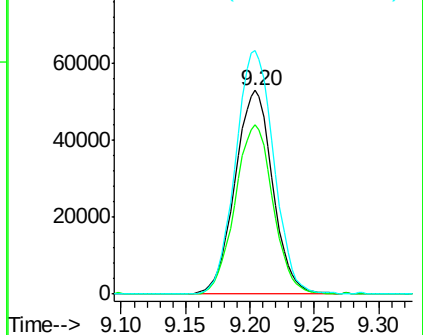
174 121.5 95.7 143.5

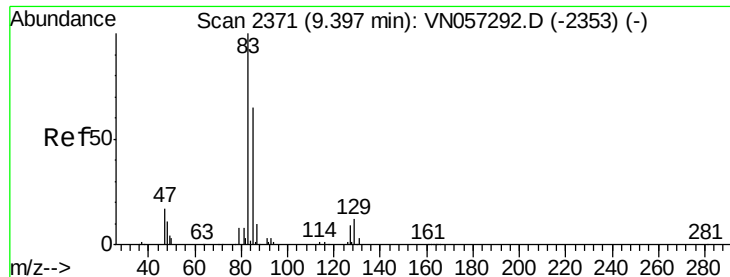


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





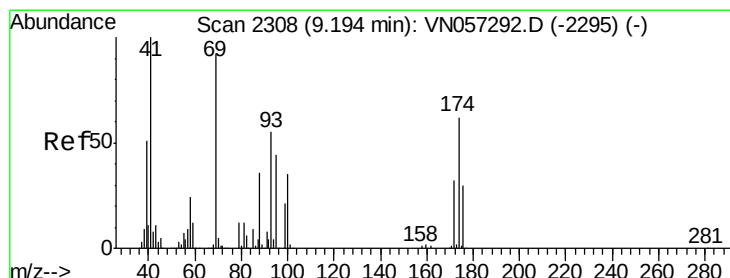
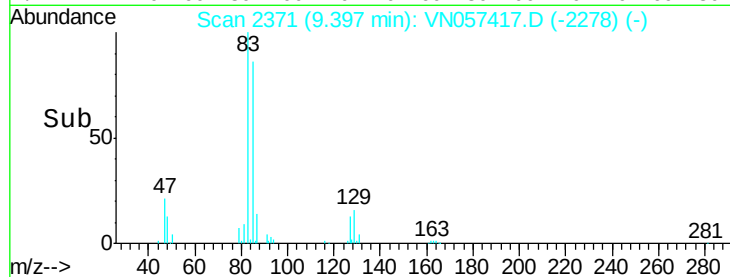
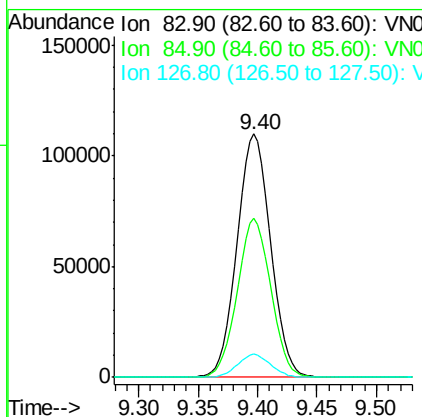
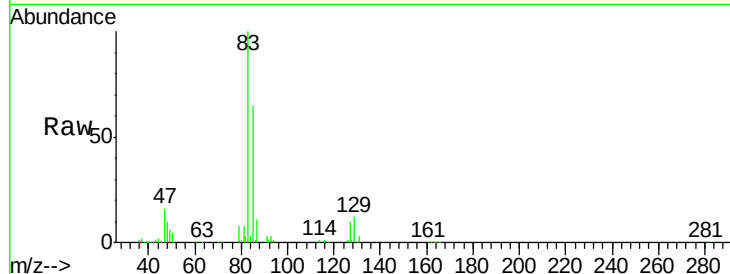
#47
Bromodichloromethane
Concen: 19.252 ug/l
RT: 9.40 min Scan# 2371
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
83	100	215397		
85	65.4	51.9	77.9	
127	9.7	7.2	10.8	

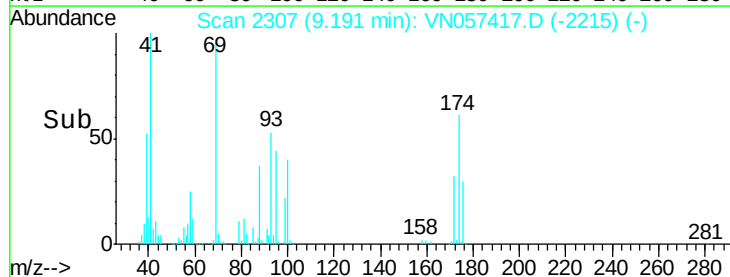
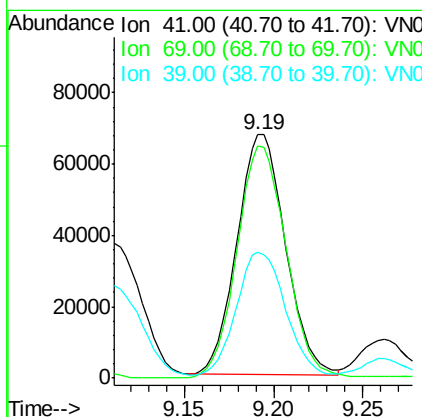
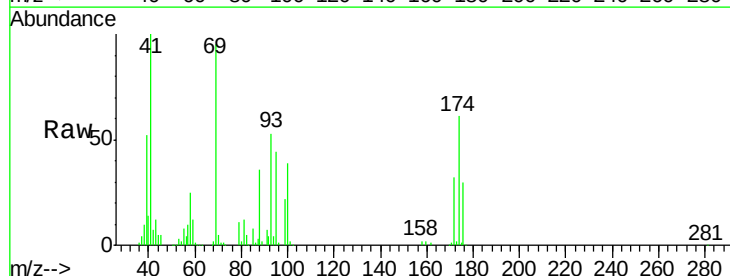
Manual Integrations
APPROVED

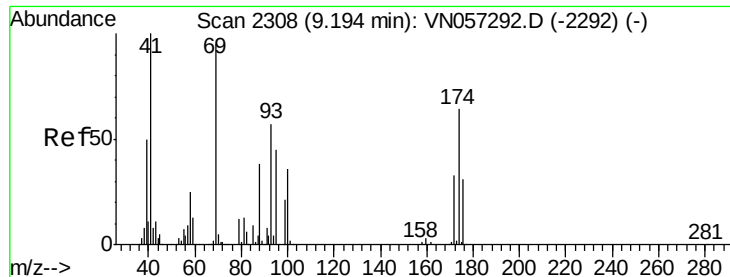
MMDadoda
8/21/2019 9:45:37 AM



#48
Methyl methacrylate
Concen: 17.750 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. -0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	128533		
69	98.3	75.9	113.9	
39	53.4	42.3	63.5	





#49

1,4-Dioxane

Concen: 354.994 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. -0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

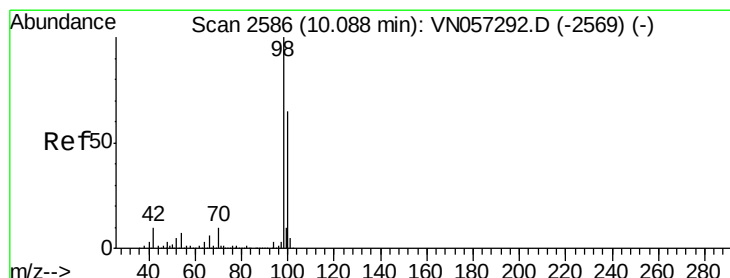
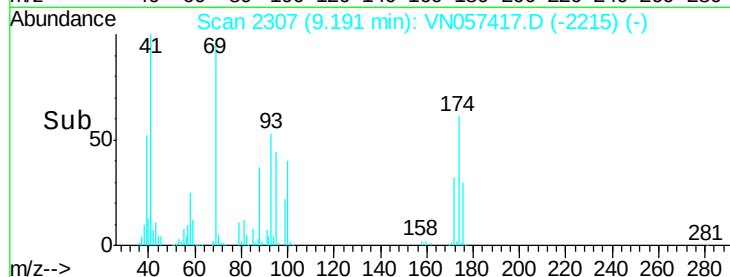
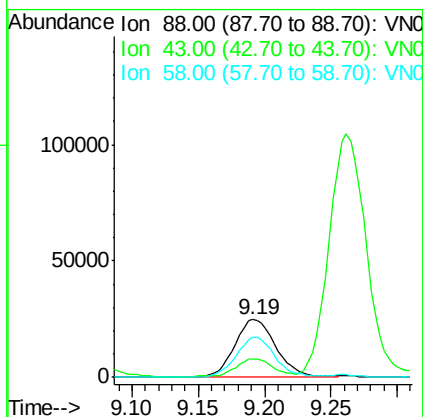
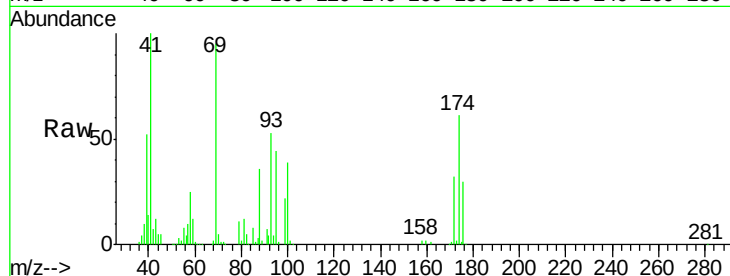
ClientSampleId :

VN0819WBSD02

Tot Ion:	88	Resp:	54060
Ion	Ratio	Lower	Upper
88	100		
43	29.6	22.9	34.3
58	65.1	52.7	79.1

Manual Integrations
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MMDadoda
8/21/2019 9:45:37 AM



#50

Toluene-d8

Concen: 49.409 ug/l

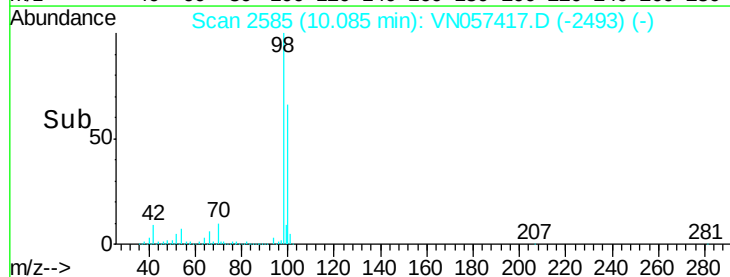
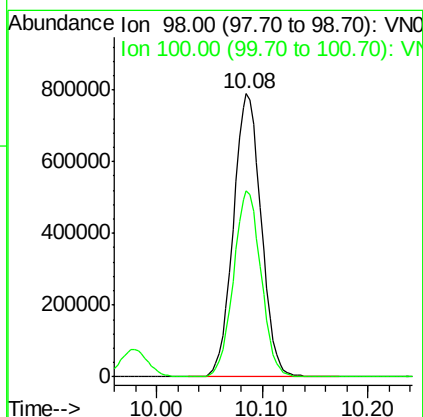
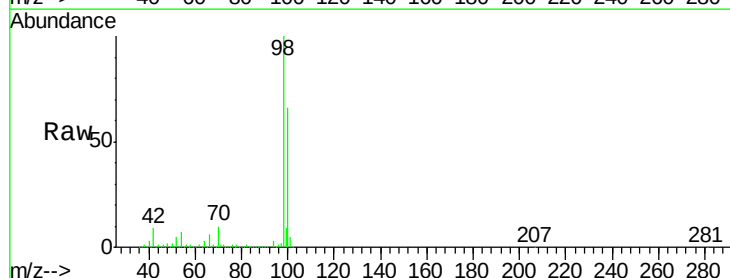
RT: 10.08 min Scan# 2585

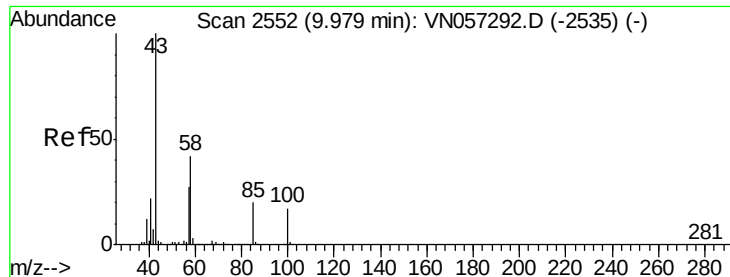
Delta R.T. -0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Tgt Ion:	98	Resp:	1440531
Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 87.212 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBSD02

Tot Ion: 43 Resp: 791189

Ion Ratio Lower Upper

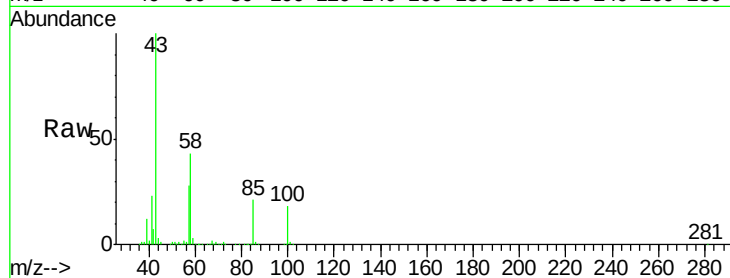
43 100

58 42.9 33.2 49.8

Manual Integrations
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.98

400000

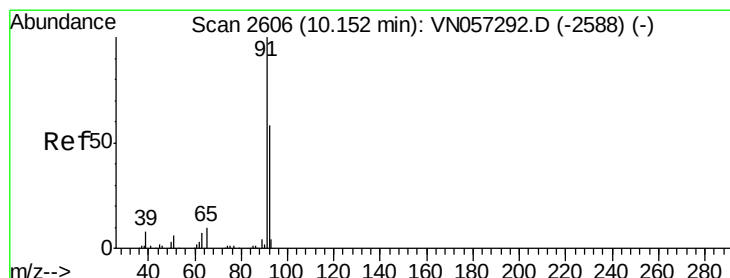
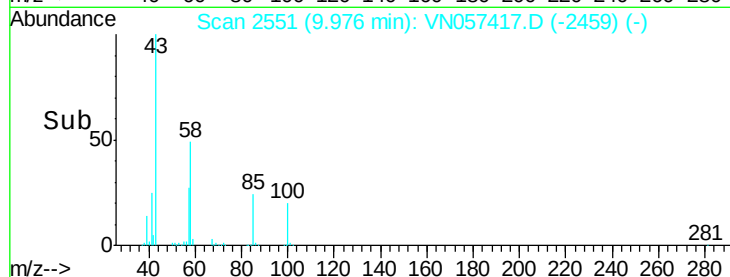
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 19.318 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN057417.D

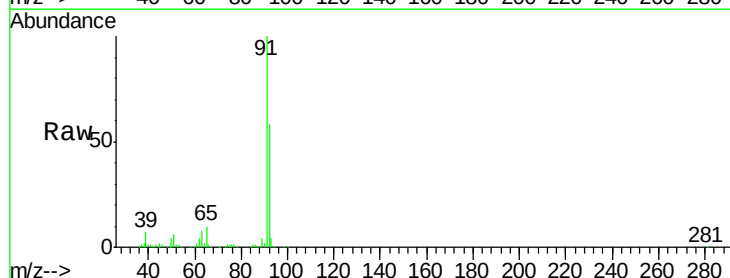
Acq: 19 Aug 2019 23:12

Tgt Ion: 92 Resp: 394863

Ion Ratio Lower Upper

92 100

91 173.0 138.9 208.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.15

400000

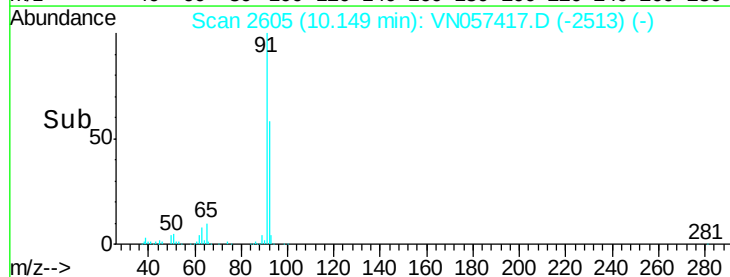
300000

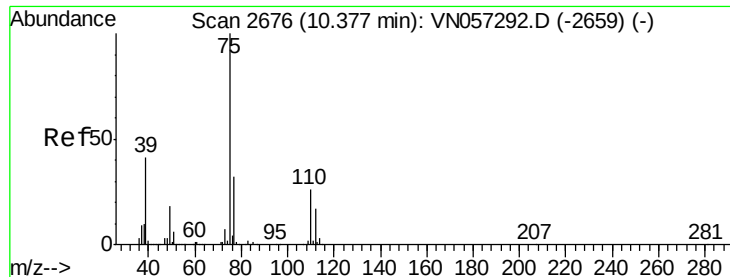
200000

100000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 17.975 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBSD02

Tot Ion: 75 Resp: 217534

Ion Ratio Lower Upper

75 100

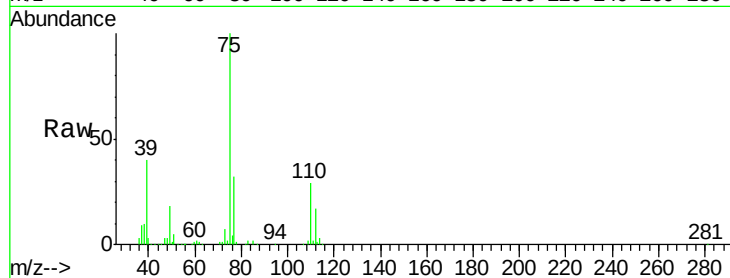
77 32.5 25.5 38.3

Manual Integrations

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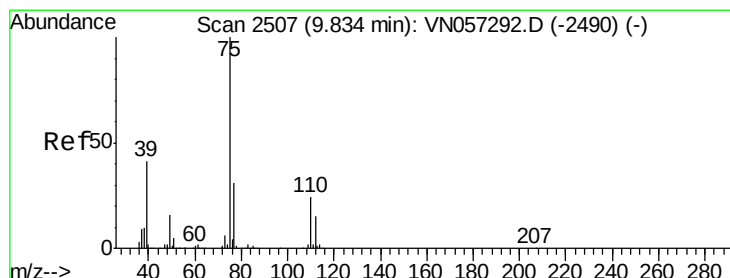
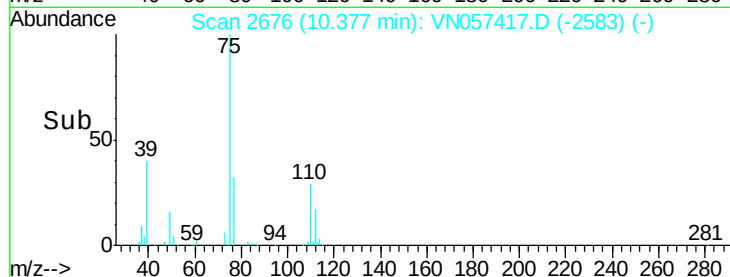
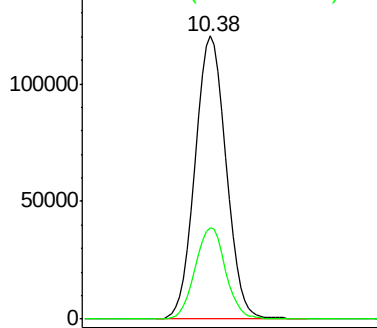
MMDadoda

8/21/2019 9:45:37 AM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 18.633 ug/l

RT: 9.83 min Scan# 2507

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

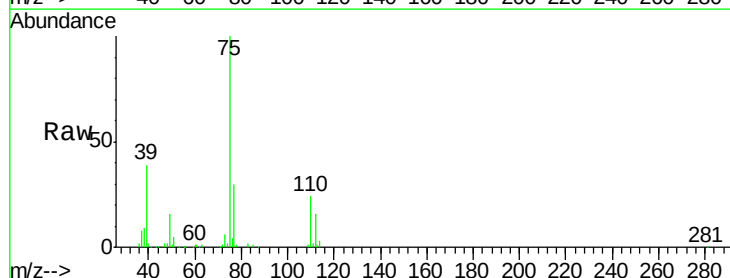
Tgt Ion: 75 Resp: 248661

Ion Ratio Lower Upper

75 100

77 30.1 24.9 37.3

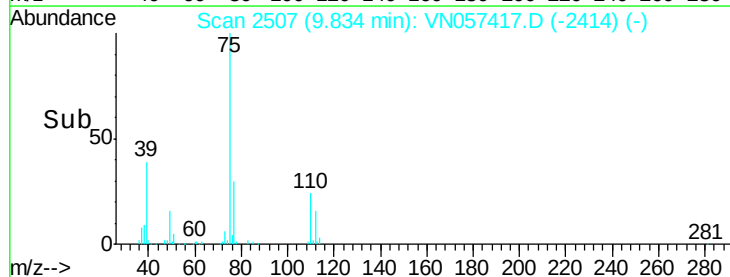
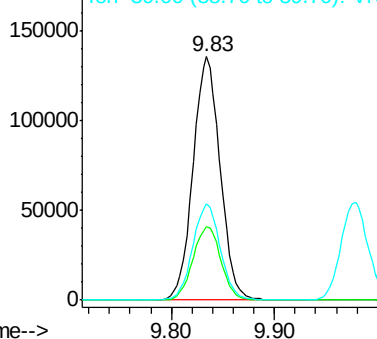
39 39.5 32.7 49.1

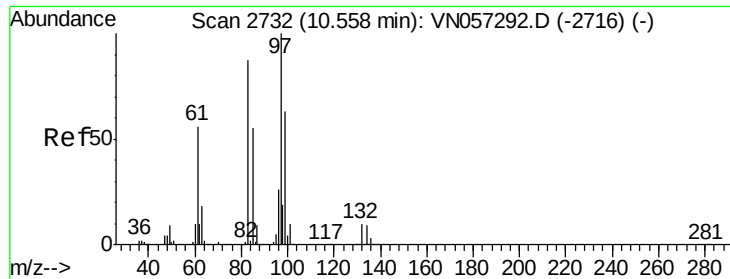


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





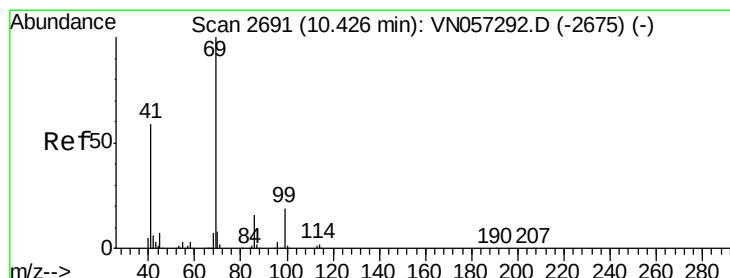
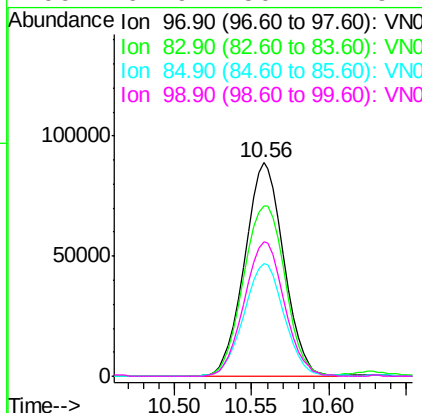
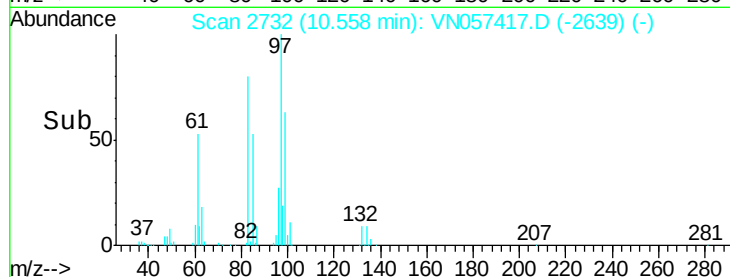
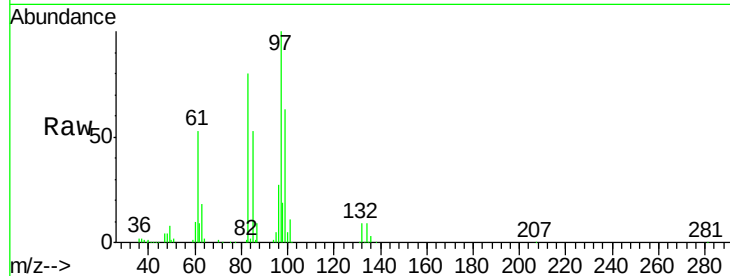
#55
 1,1,2-Trichloroethane
 Concen: 19.523 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		156911		
83	79.8	69.8	104.8		
85	52.9	44.1	66.1		
99	62.9	50.2	75.2		

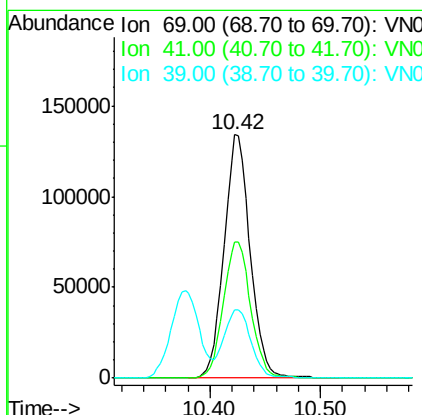
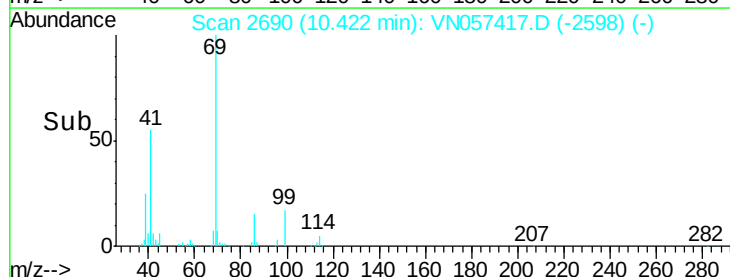
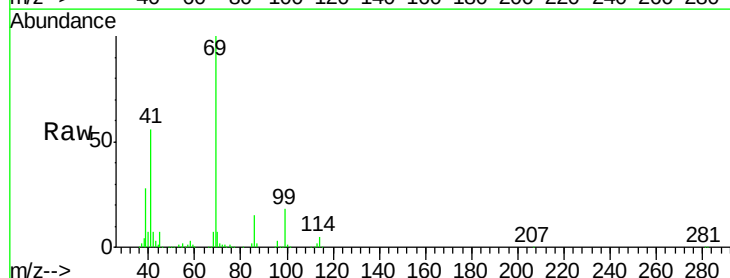
Manual Integrations
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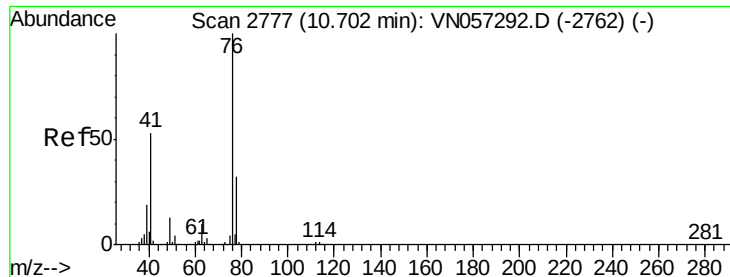
MMDadoda
 8/21/2019 9:45:37 AM



#56
 Ethyl methacrylate
 Concen: 18.797 ug/l
 RT: 10.42 min Scan# 2690
 Delta R.T. -0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		220472		
41	57.9	48.2	72.2		
39	29.0	23.4	35.0		





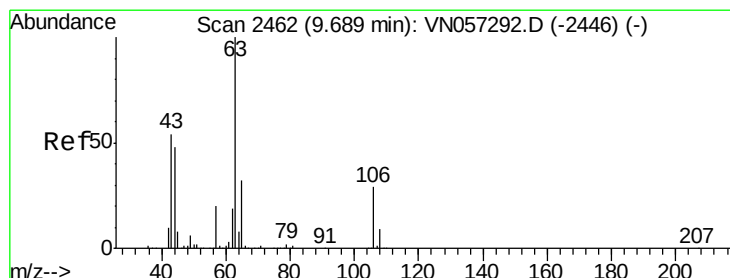
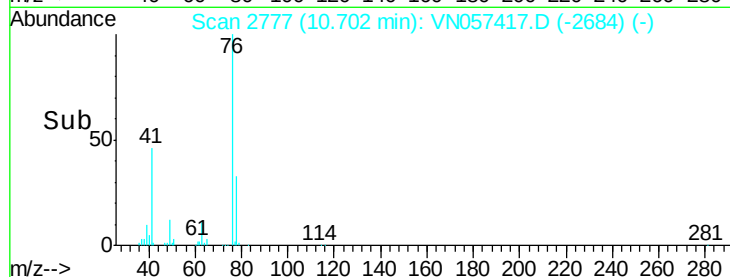
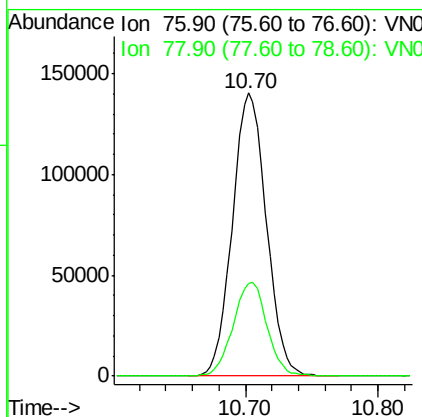
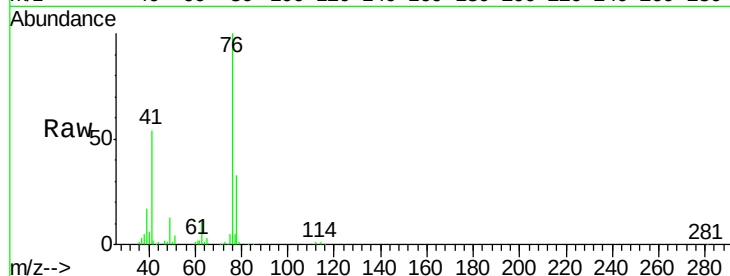
#57
 1,3-Dichloropropane
 Concen: 18.590 ug/l
 RT: 10.70 min Scan# 2777
 Delta R.T. 0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.6	38.4

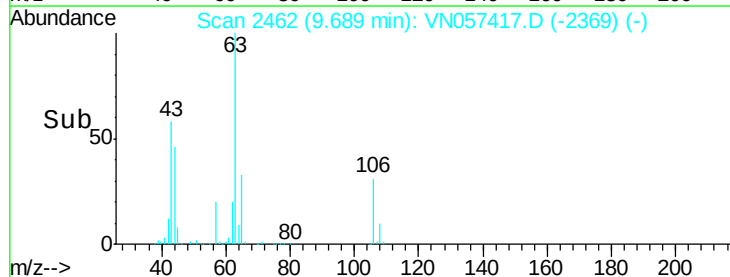
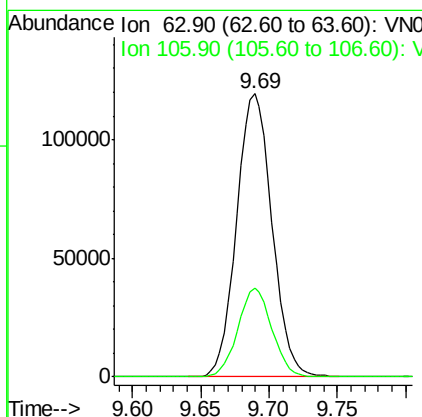
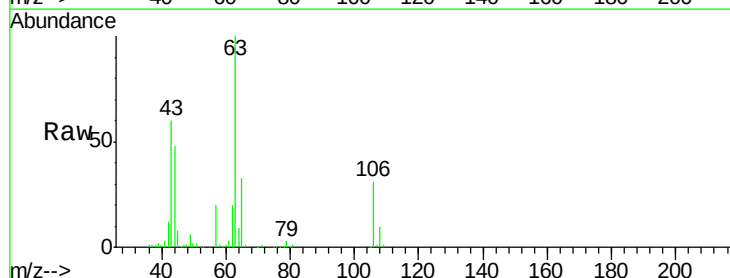
Manual Integrations
 APPROVED

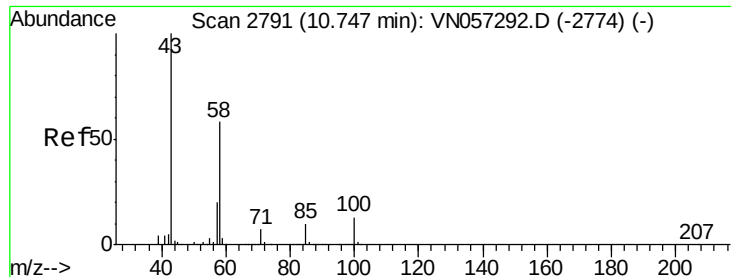
MMDadoda
 8/21/2019 9:45:37 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 74.230 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Lower	Upper
63	100		
106	30.2	23.2	34.8





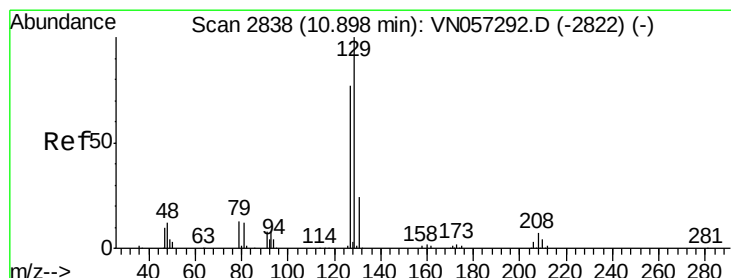
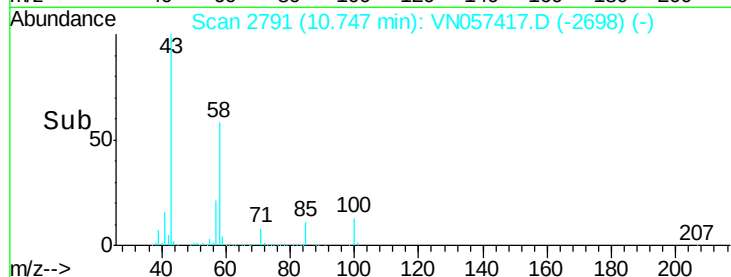
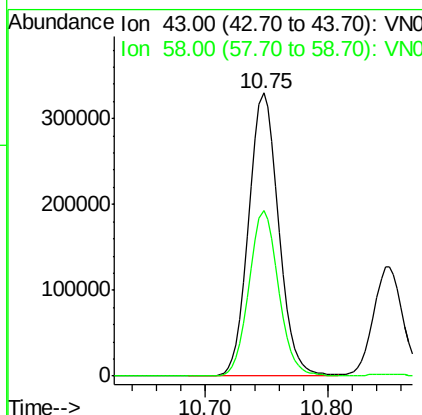
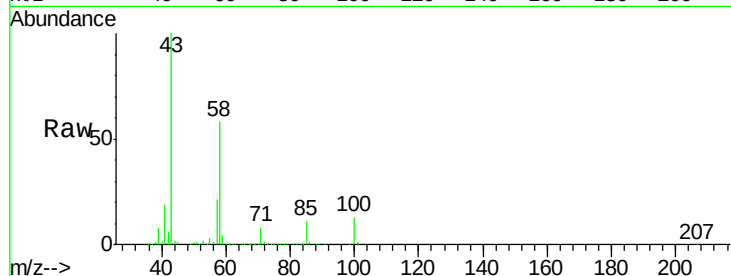
#59
2-Hexanone
Concen: 85.288 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBSD02

Tot Ion: 43 Resp: 556261
Ion Ratio Lower Upper
43 100
58 57.7 28.6 85.9

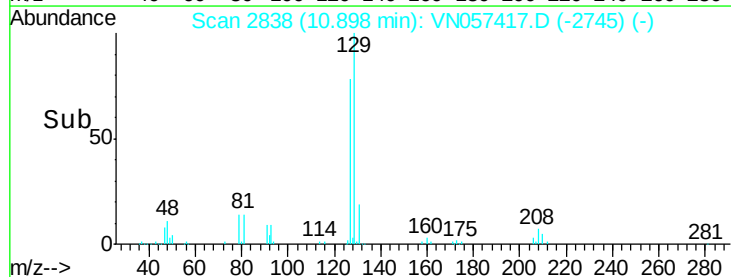
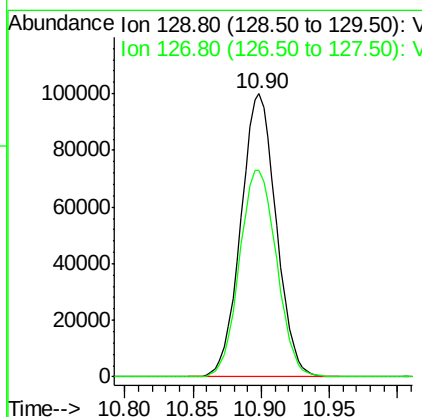
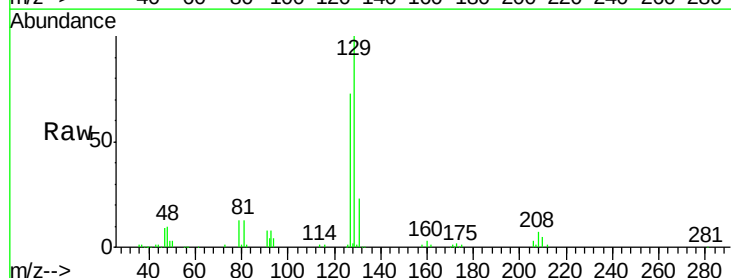
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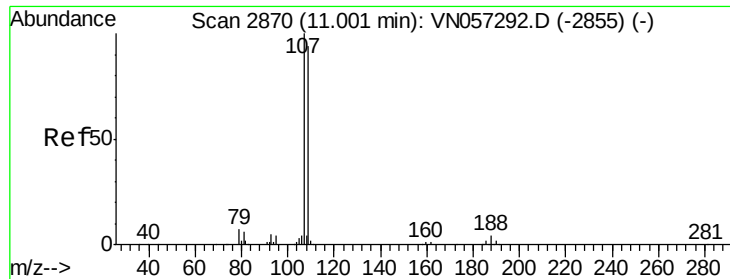
MMDadoda
8/21/2019 9:45:37 AM



#60
Dibromochloromethane
Concen: 19.961 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Tgt Ion: 129 Resp: 179787
Ion Ratio Lower Upper
129 100
127 76.5 39.0 116.9





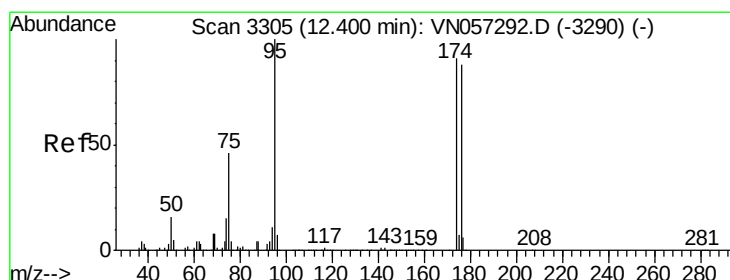
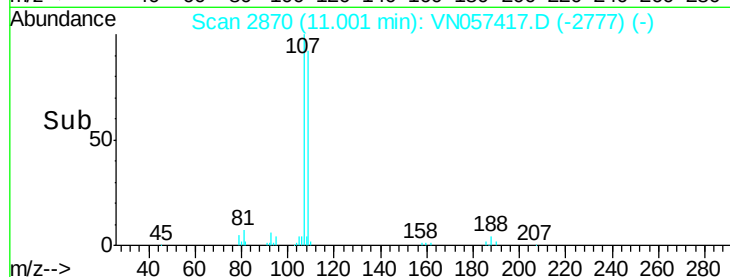
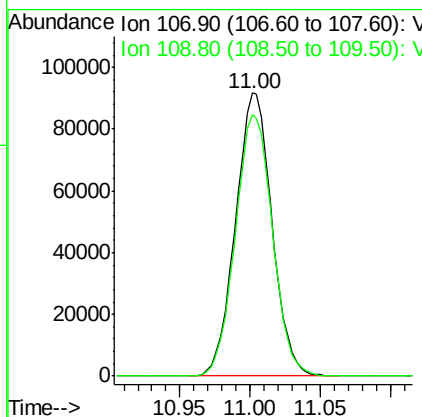
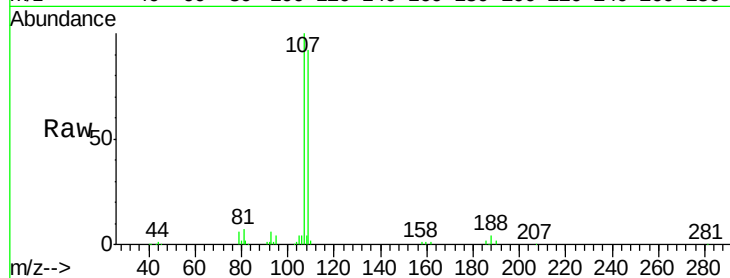
#61
 1,2-Dibromoethane
 Concen: 19.363 ug/l
 RT: 11.00 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBSD02

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.7	113.5

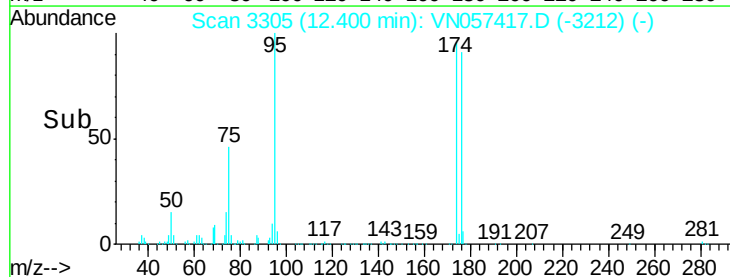
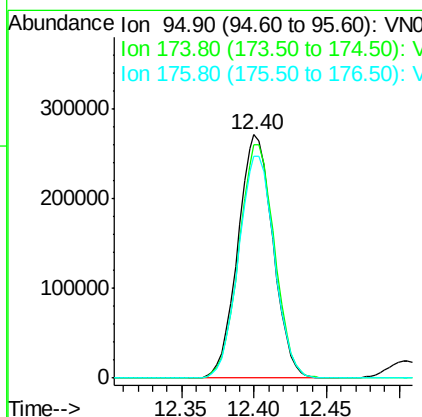
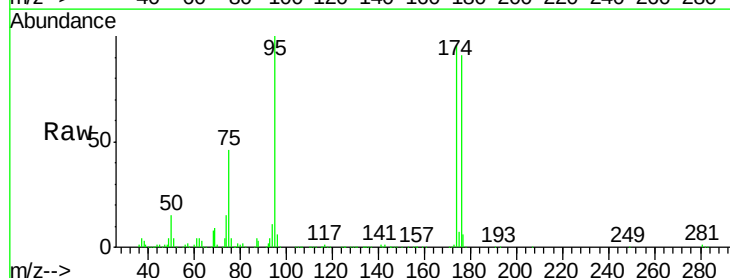
Manual Integrations
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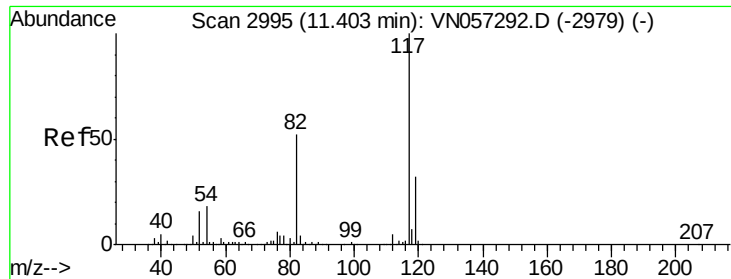
MMDadoda
 8/21/2019 9:45:37 AM



#62
 4-Bromofluorobenzene
 Concen: 44.230 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Lower	Upper
95	100		
174	97.3	0.0	185.0
176	93.3	0.0	181.0





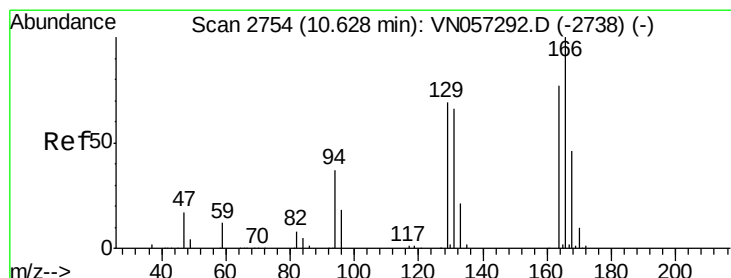
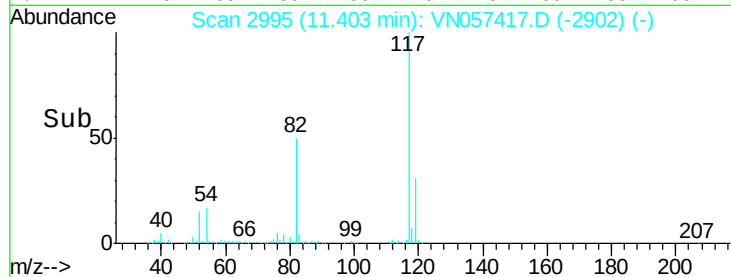
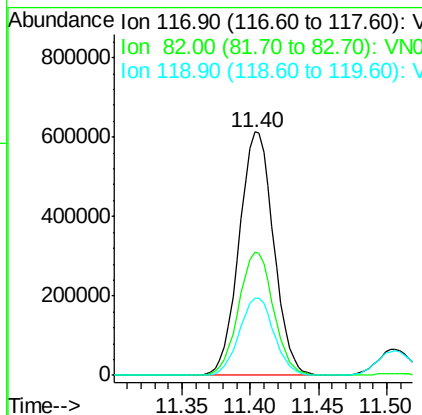
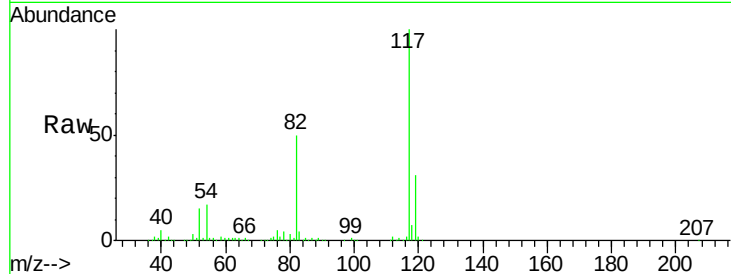
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.4	41.2	61.8
119	31.5	25.8	38.8

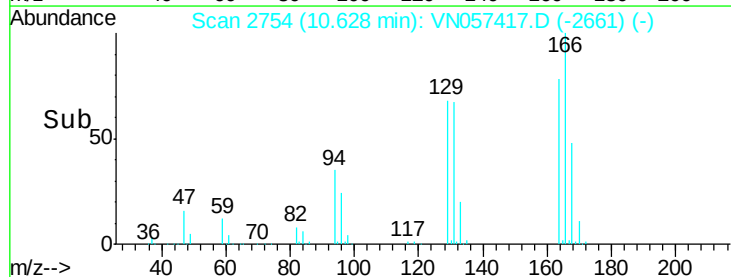
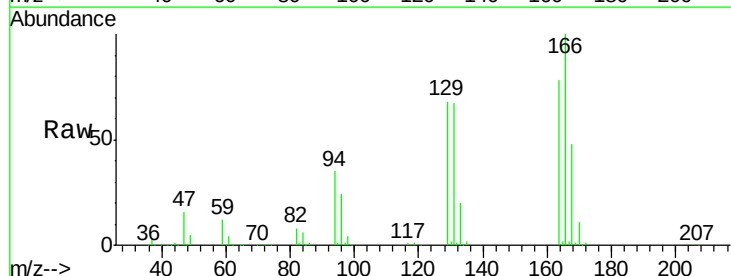
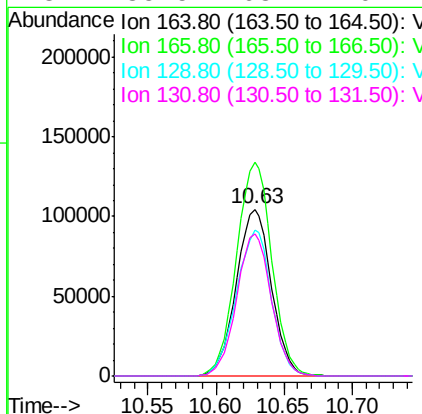
Manual Integrations
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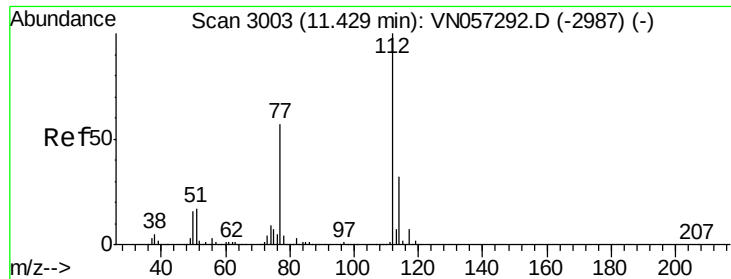
MMDadoda
8/21/2019 9:45:37 AM



#64
Tetrachloroethene
Concen: 20.085 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.0	103.5	155.3
129	87.3	71.2	106.8
131	85.5	68.2	102.4





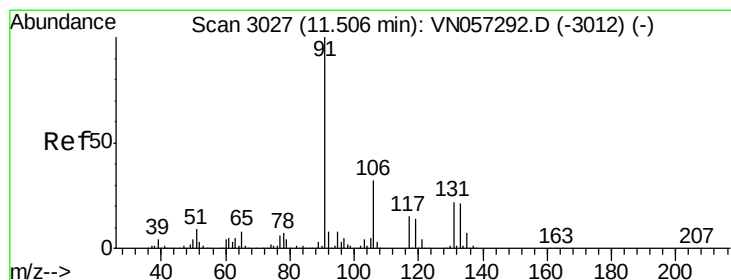
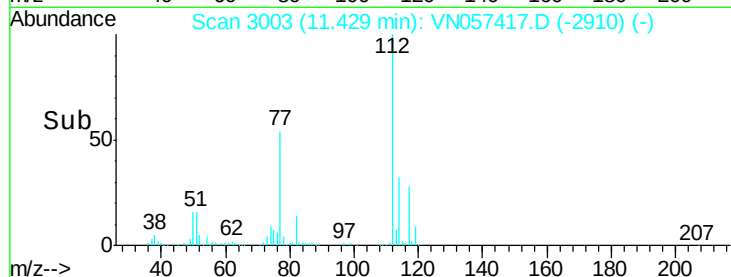
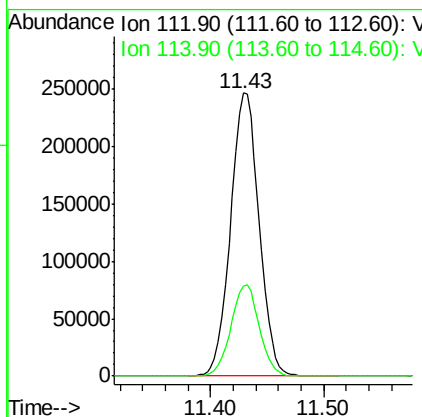
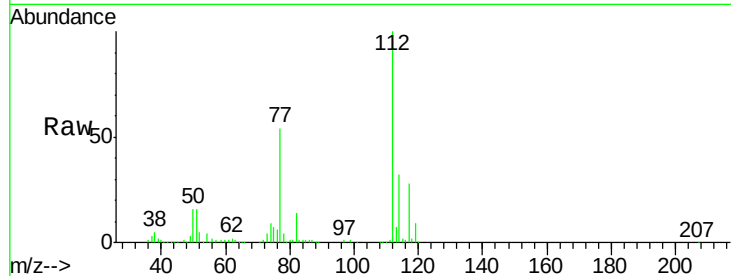
#65
Chlorobenzene
Concen: 19.707 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBSD02

Tot Ion:112 Resp: 432232
Ion Ratio Lower Upper
112 100
114 32.0 25.7 38.5

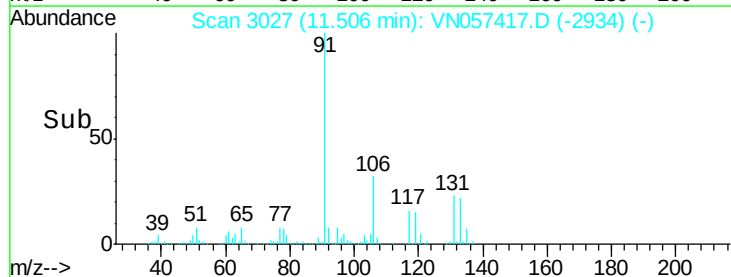
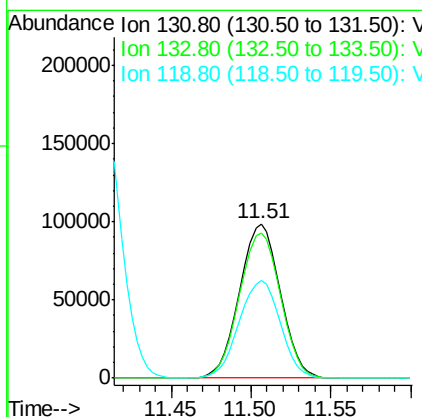
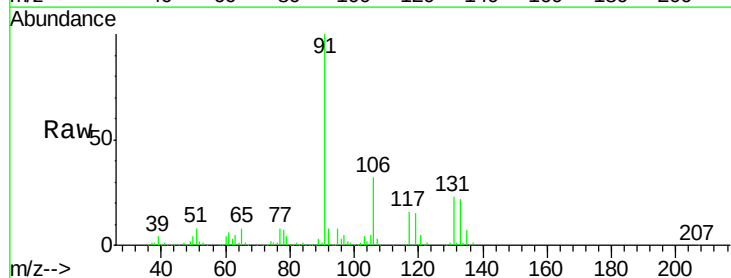
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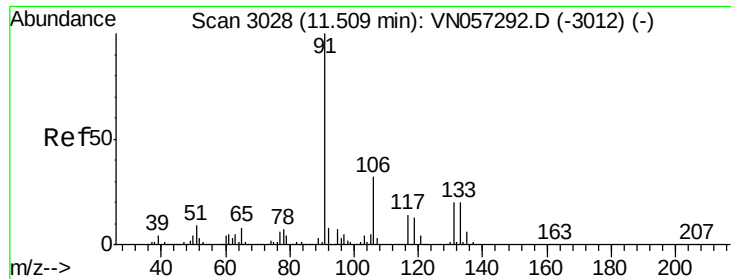
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.426 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Tgt Ion:131 Resp: 171572
Ion Ratio Lower Upper
131 100
133 95.1 47.6 142.8
119 63.9 32.0 96.2





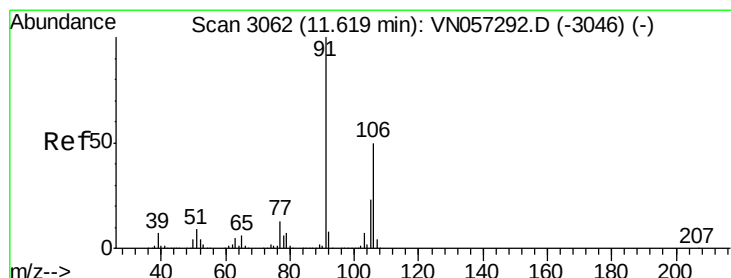
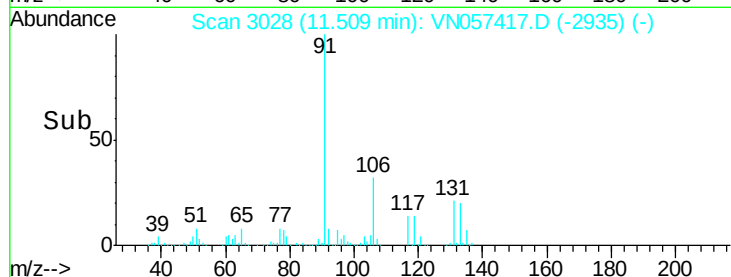
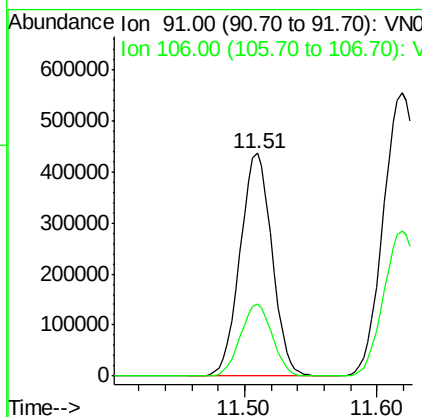
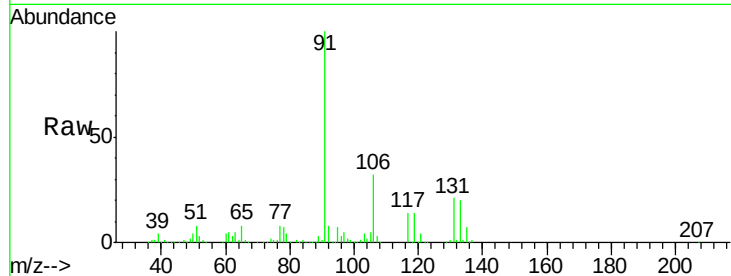
#67
Ethyl Benzene
Concen: 18.963 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBSD02

Tot Ion: 91 Resp: 727644
Ion Ratio Lower Upper
91 100
106 32.2 25.5 38.3

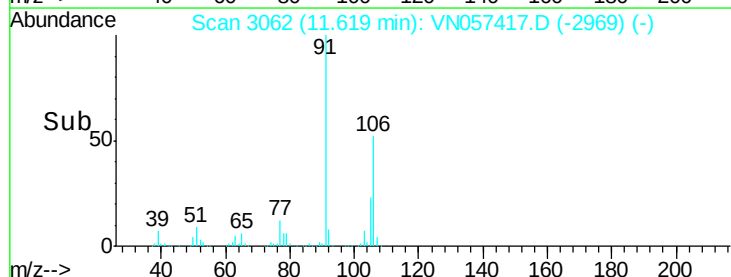
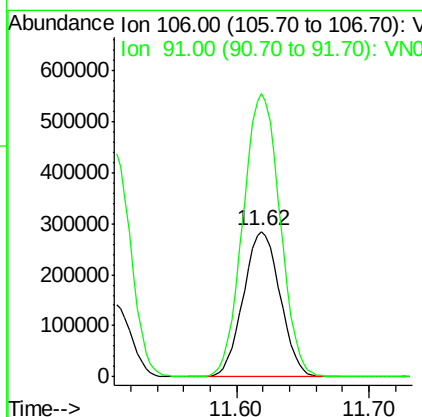
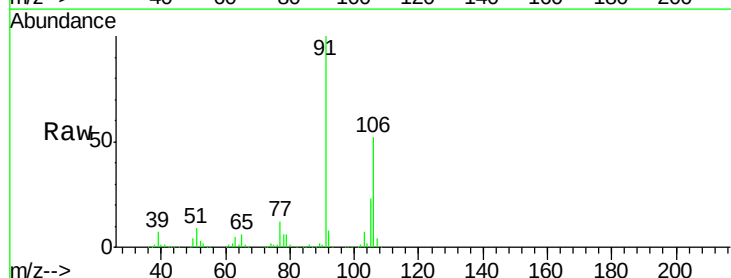
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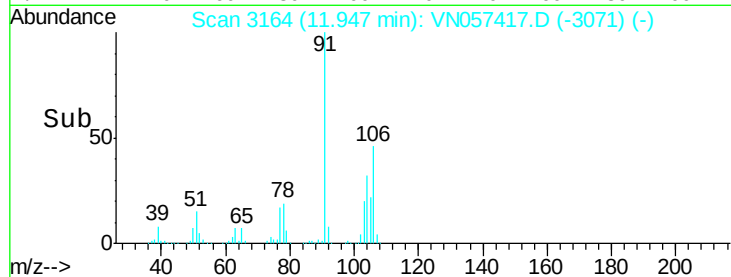
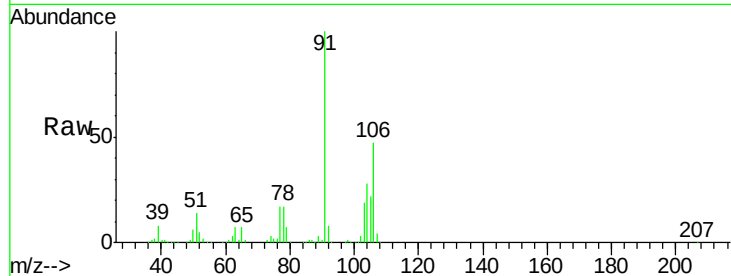
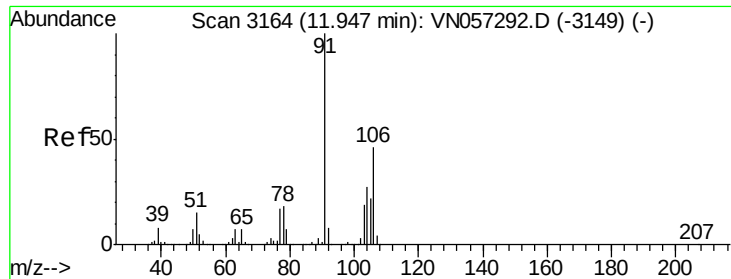
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#68
m/p-Xylenes
Concen: 38.702 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Tgt Ion: 106 Resp: 547165
Ion Ratio Lower Upper
106 100
91 196.6 161.5 242.3





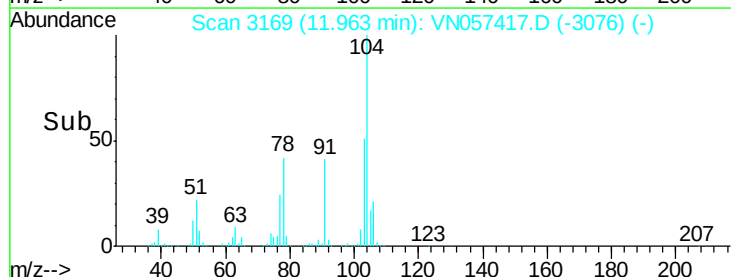
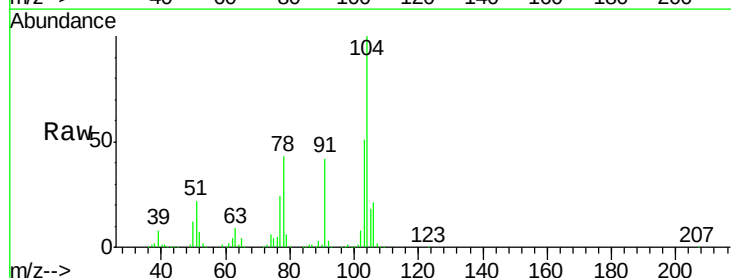
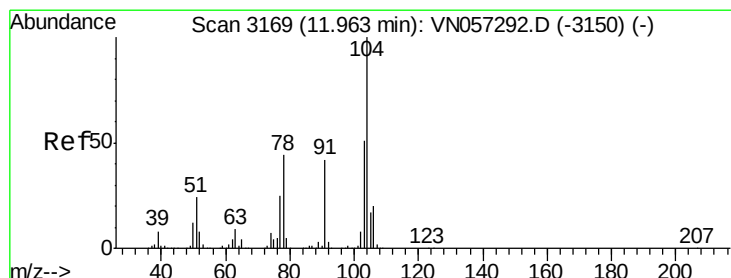
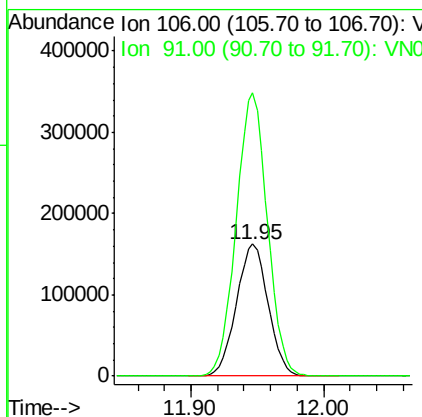
#69
o-Xylene
Concen: 19.410 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Tot Ion	Ratio	Resp	Lower	Upper
106	100	269440		
91	211.6	106.3	319.0	

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBSD02

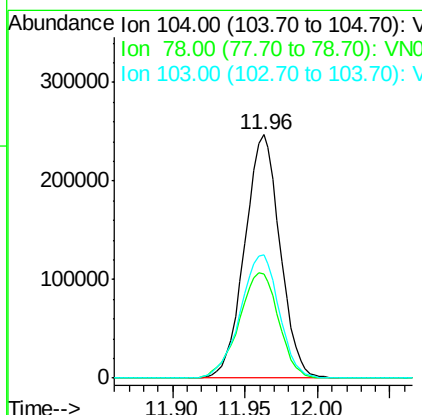
Manual Integrations
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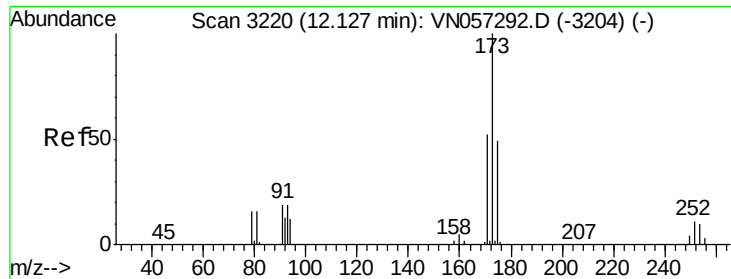
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#70
Styrene
Concen: 18.942 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	419154		
78	48.6	39.2	58.8	
103	55.7	44.6	66.8	





#71

Bromoform

Concen: 19.954 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

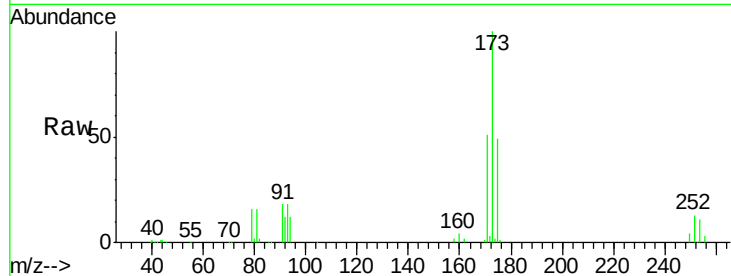
ClientSampled :

VN0819WBSD02

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.2	72.6
254	0.0	0.2	0.2

Manual Integrations
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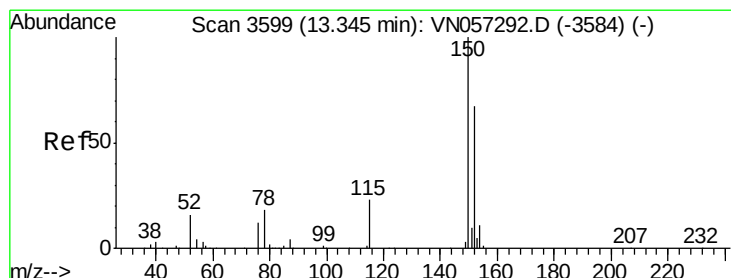
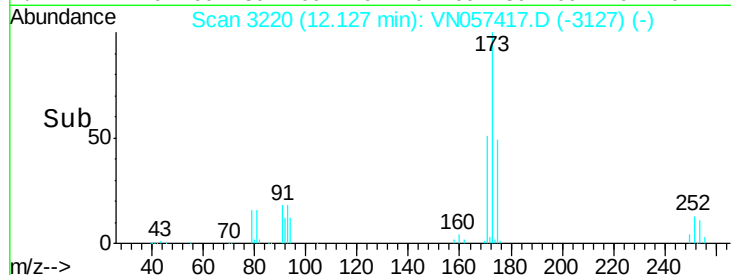
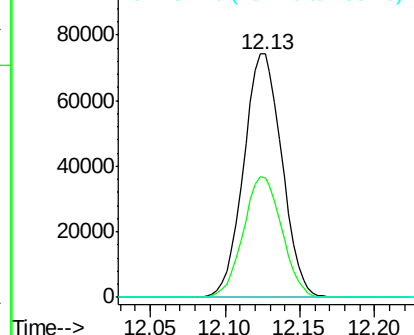


Abundance

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

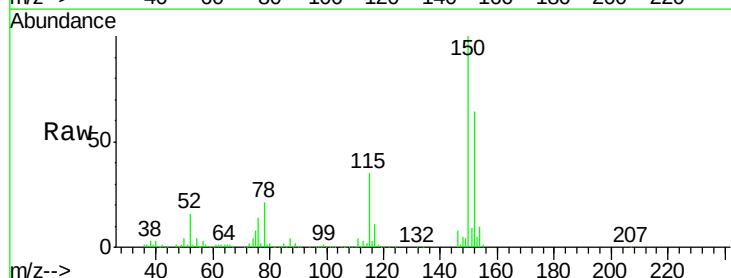
RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.7	27.3	81.9
150	163.7	0.0	344.4

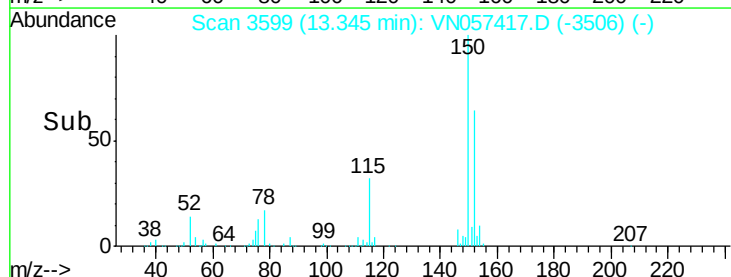
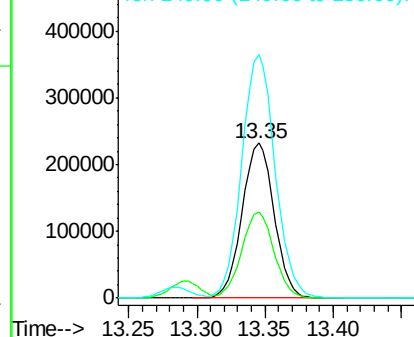


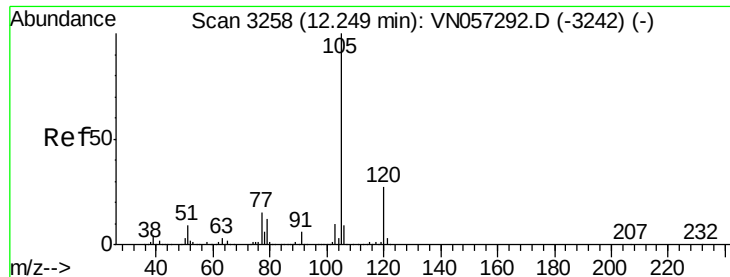
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.895 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBSD02

Tot Ion:105 Resp: 717695

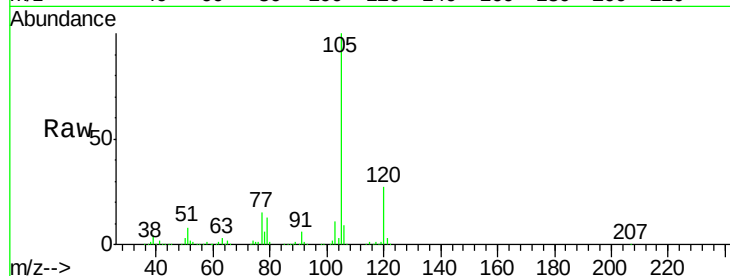
Ion Ratio Lower Upper

105 100

120 26.8 13.2 39.6

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

400000

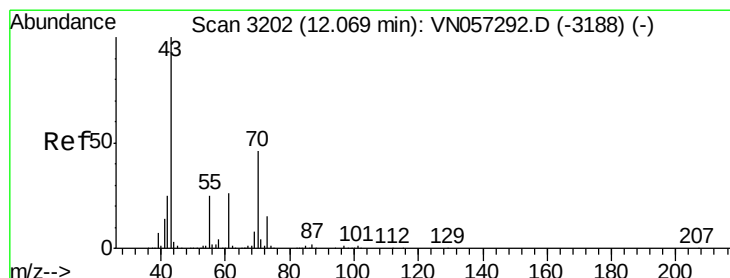
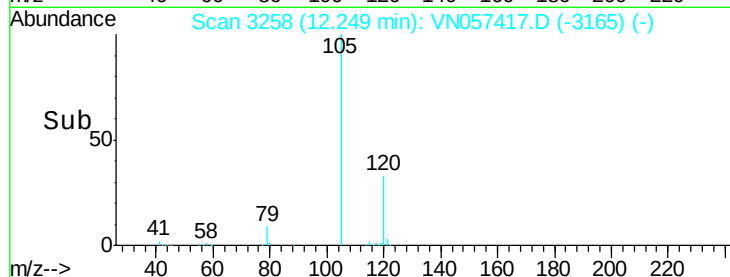
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 16.977 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Tgt Ion: 43 Resp: 186814

Ion Ratio Lower Upper

43 100

70 46.9 36.2 54.2

55 26.7 20.1 30.1

61 26.2 20.9 31.3

Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

12.07

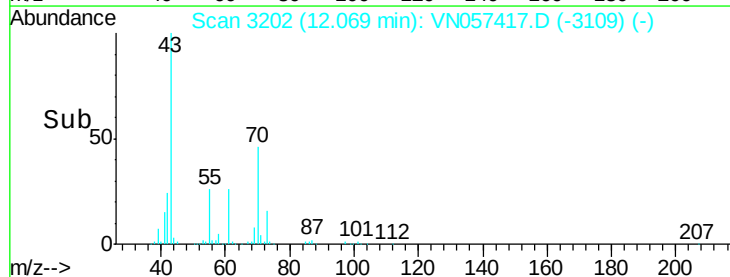
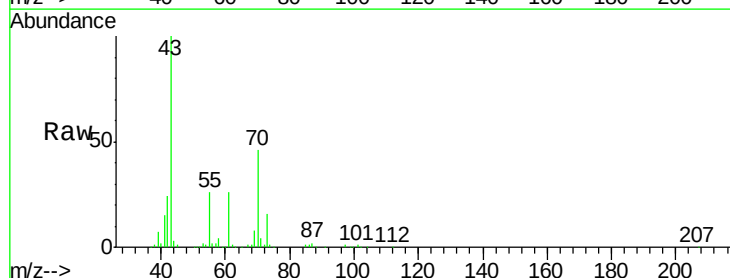
150000

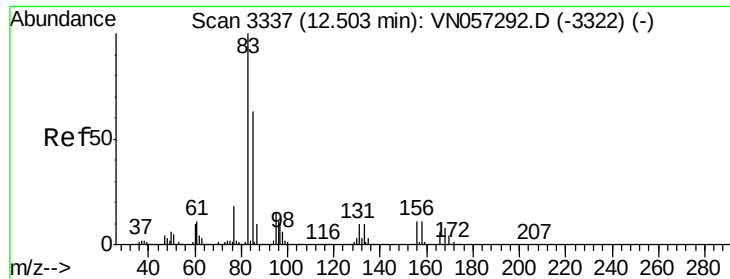
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 21.516 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

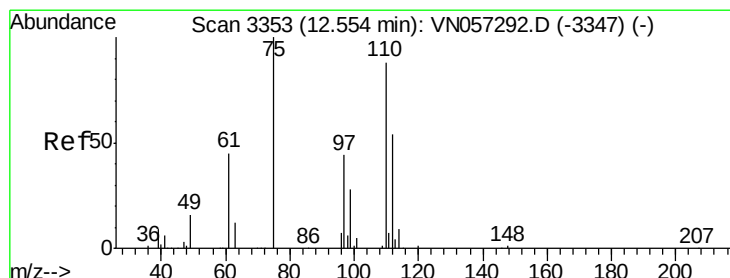
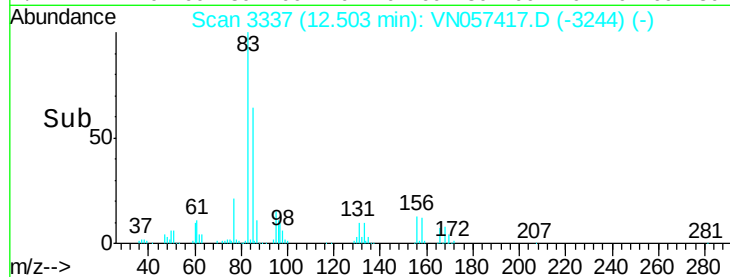
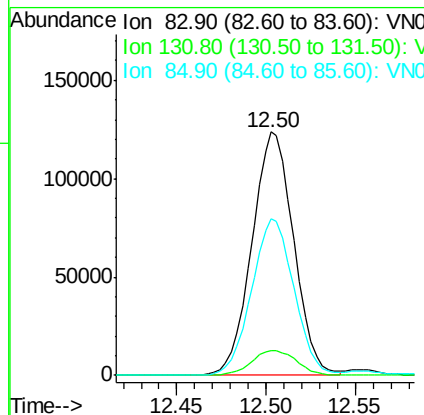
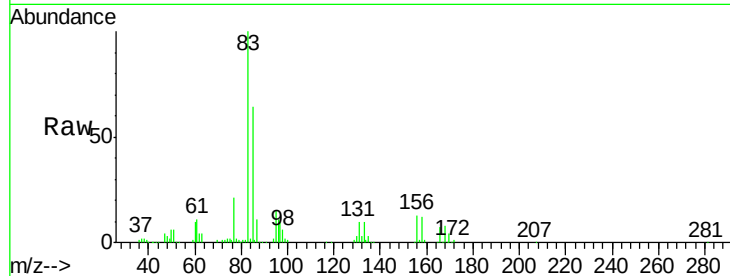
ClientSampleId :

VN0819WBSD02

Tot Ion:	83	Resp:	202850
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.4	16.2
85	65.3	32.3	96.9

Manual Integrations
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8/21/2019 9:45:37 AM



#76

1,2,3-Trichloropropane

Concen: 20.846 ug/l m

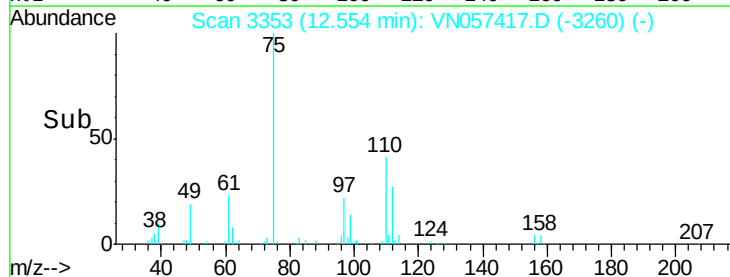
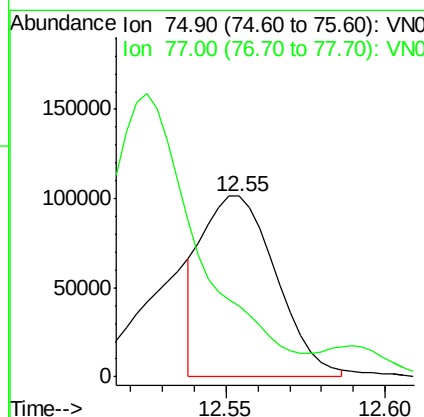
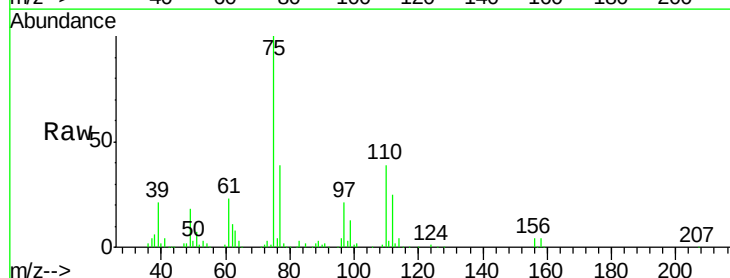
RT: 12.55 min Scan# 3353

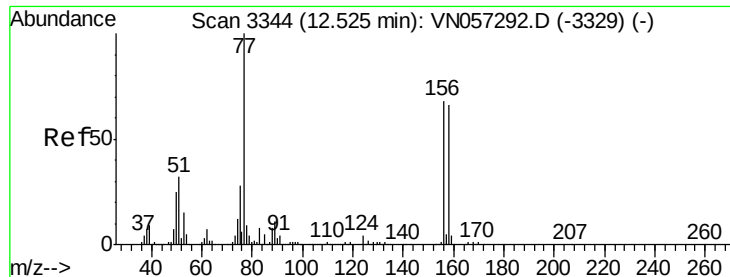
Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Tgt Ion:	75	Resp:	163752
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 22.410 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

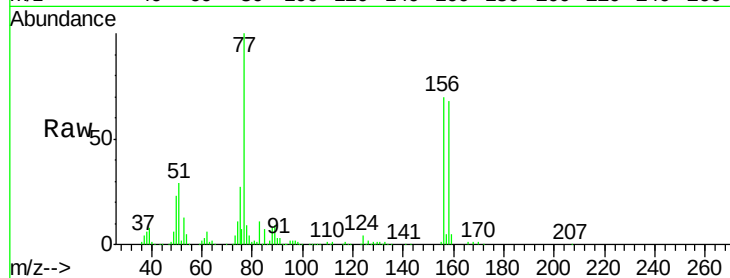
ClientSampleId :

VN0819WBSD02

Tot Ion:	156	Resp:	191831
Ion Ratio	Lower	Upper	
156	100		
77	169.6	89.8	269.6
158	96.4	49.3	147.8

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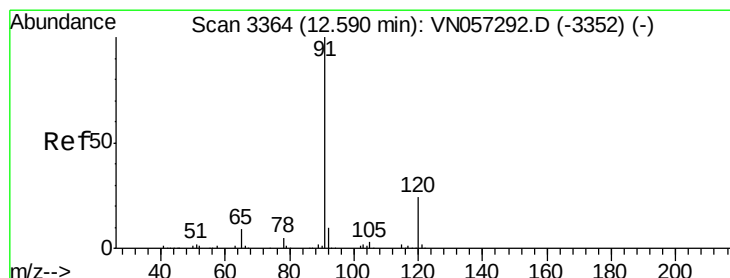
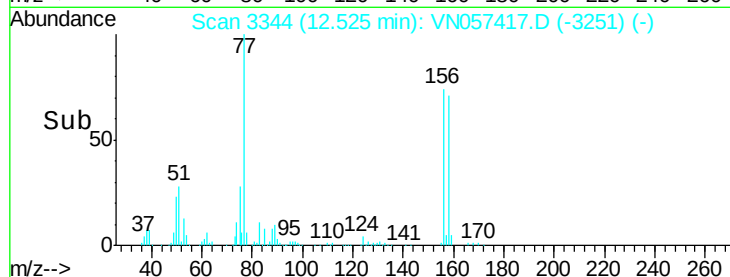
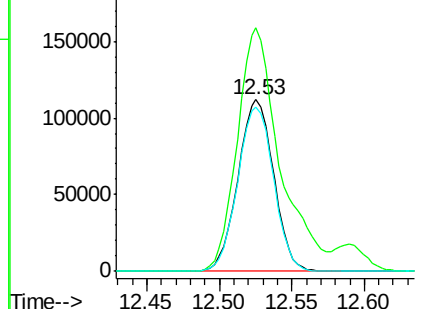
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 18.889 ug/l

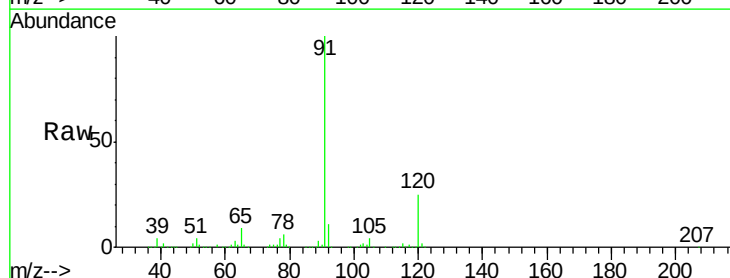
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN057417.D

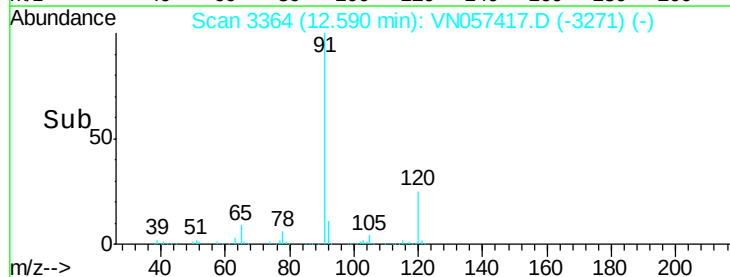
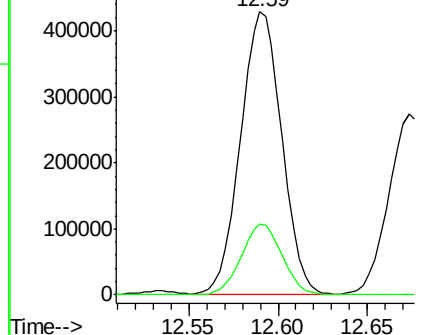
Acq: 19 Aug 2019 23:12

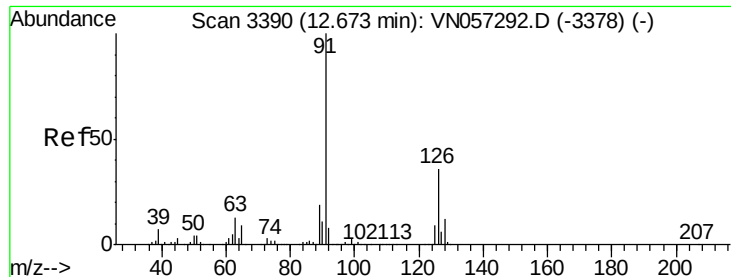
Tgt Ion:	91	Resp:	689794
Ion Ratio	Lower	Upper	
91	100		
120	25.0	11.9	35.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.325 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBSD02

Tot Ion: 91 Resp: 452789

Ion Ratio Lower Upper

91 100

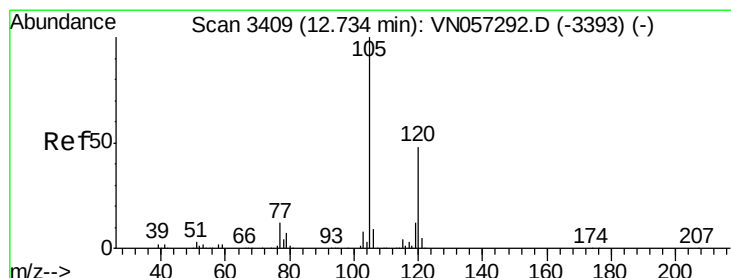
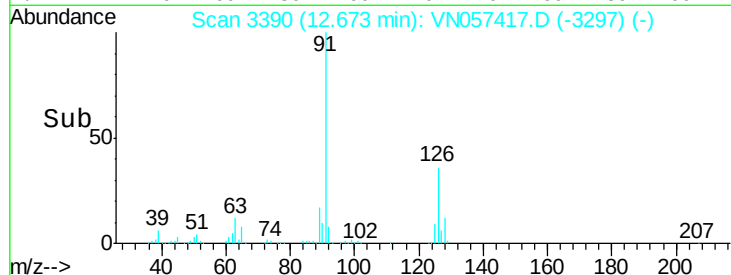
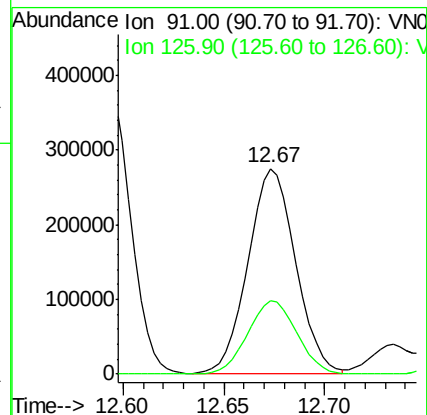
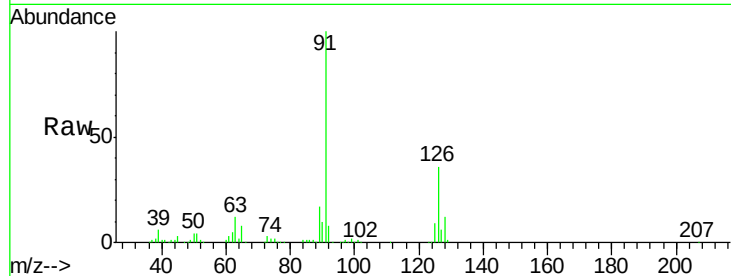
126 37.0 18.1 54.1

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#80

1,3,5-Trimethylbenzene

Concen: 21.888 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057417.D

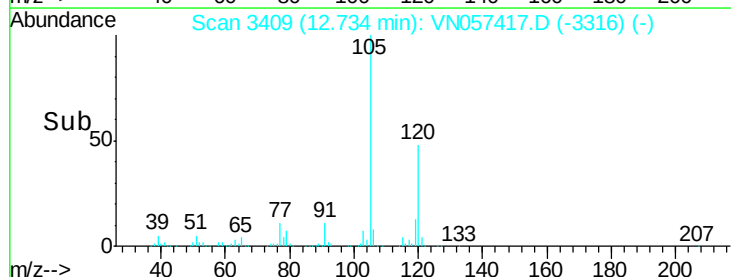
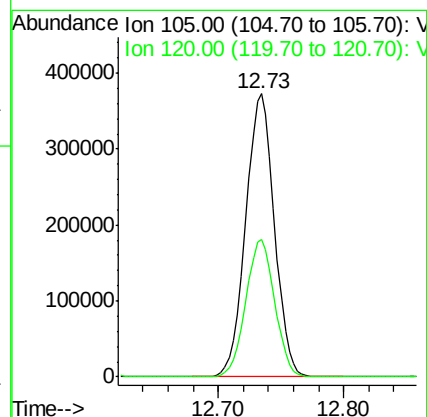
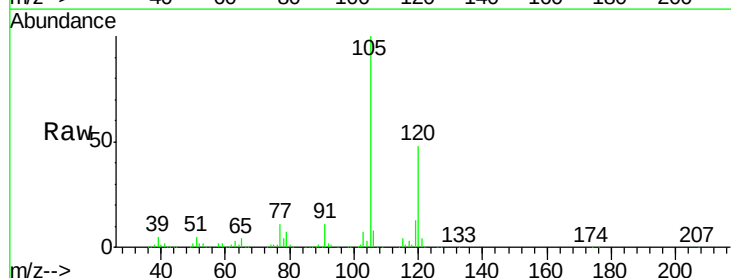
Acq: 19 Aug 2019 23:12

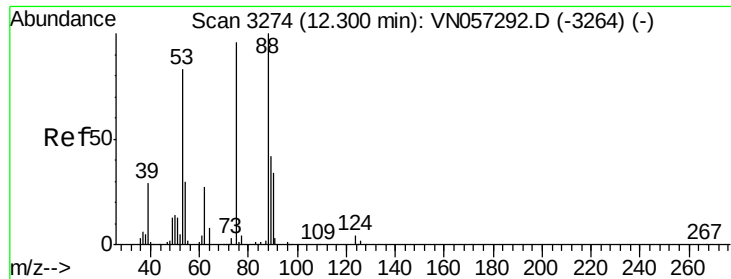
Tgt Ion: 105 Resp: 591661

Ion Ratio Lower Upper

105 100

120 48.9 24.3 73.0





#81

trans-1,4-Dichloro-2-butene

Concen: 18.358 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

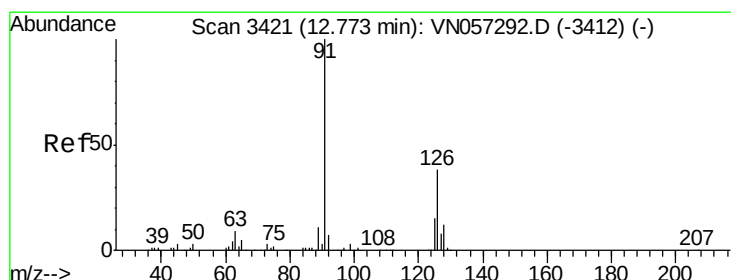
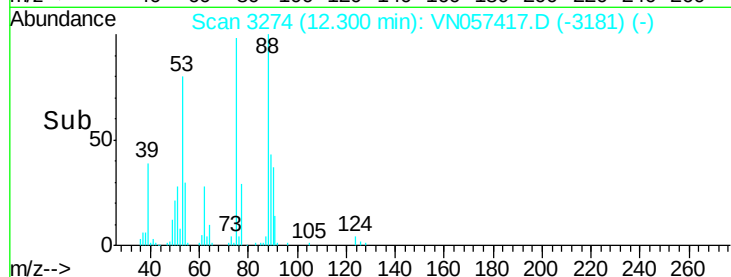
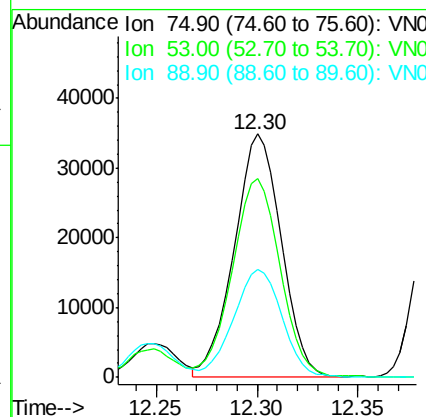
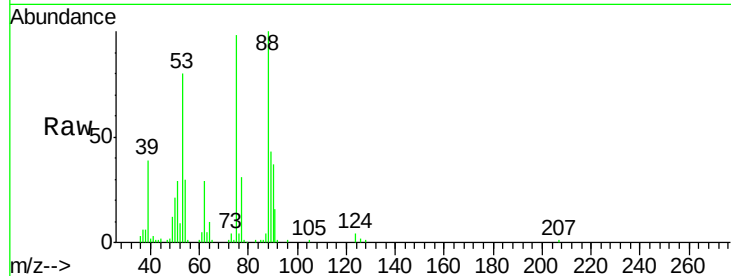
ClientSampleId :

VN0819WBSD02

Tot Ion:	75	Resp:	57091
Ion Ratio	Lower	Upper	
75	100		
53	82.1	67.9	101.9
89	45.7	36.2	54.4

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#82

4-Chlorotoluene

Concen: 19.004 ug/l

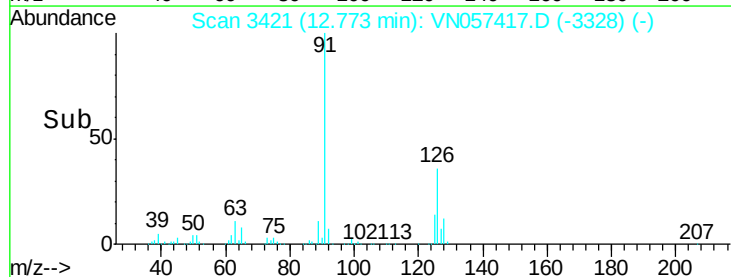
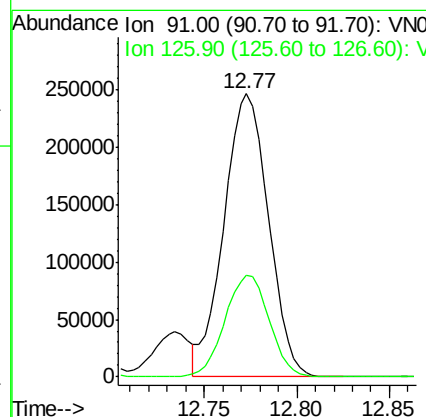
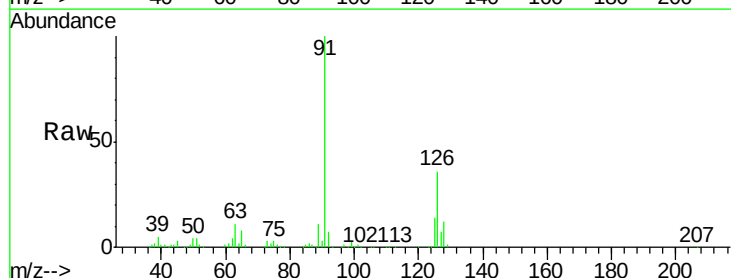
RT: 12.77 min Scan# 3421

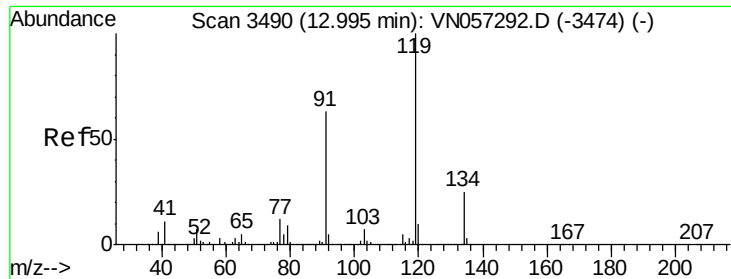
Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Tgt Ion:	91	Resp:	411231
Ion Ratio	Lower	Upper	
91	100		
126	35.6	17.3	51.7





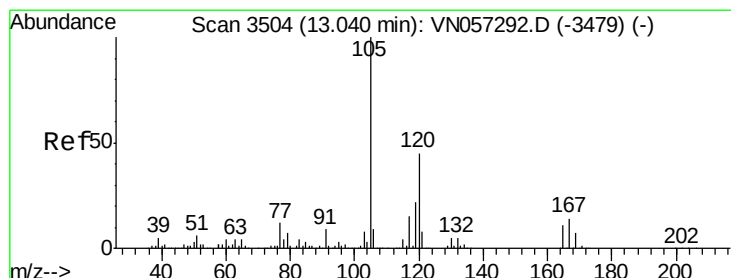
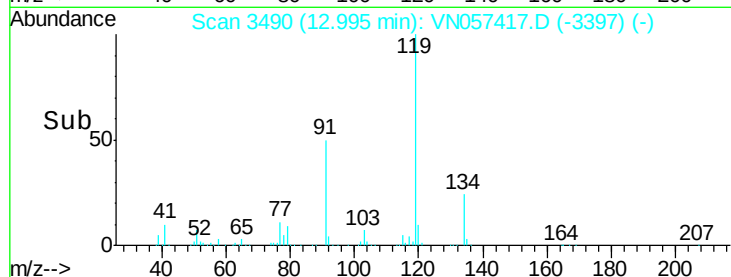
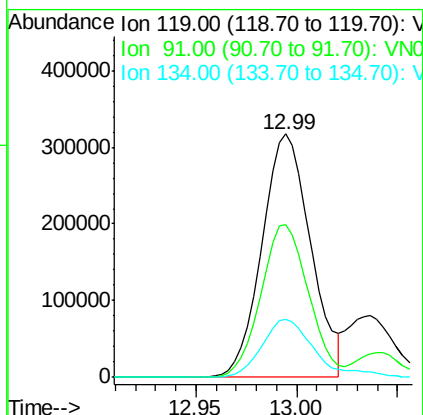
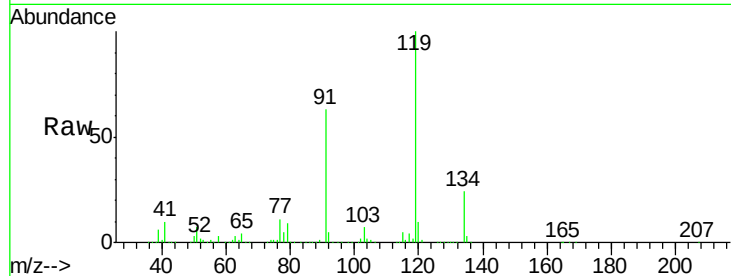
#83
 tert-Butylbenzene
 Concen: 22.116 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	533712		
91	61.5		31.3	93.8
134	25.9		13.1	39.1

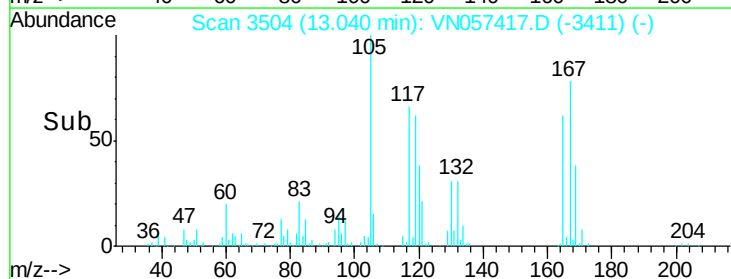
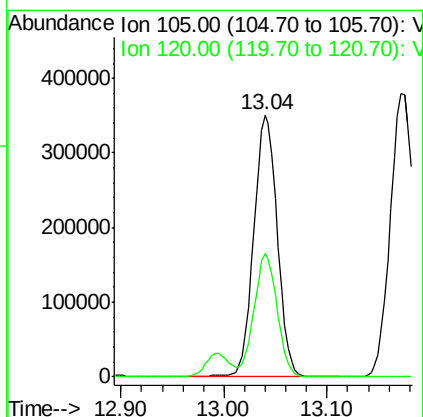
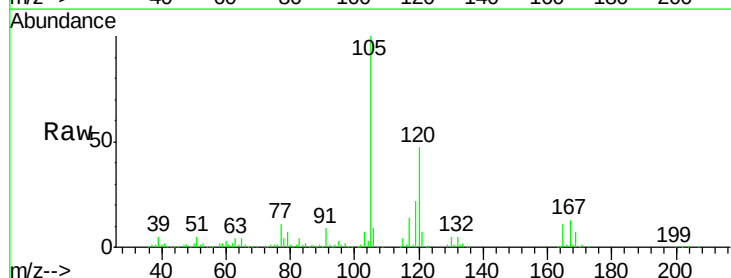
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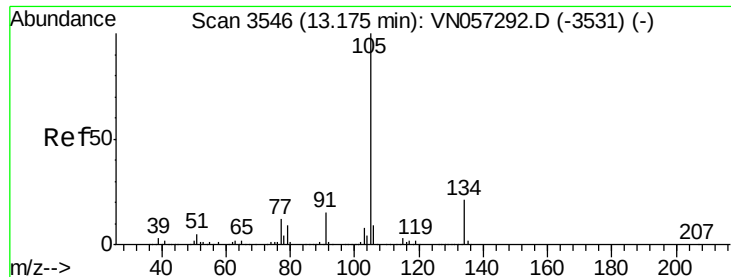
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.225 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	552412		
120	45.9		22.6	67.7





#85

sec-Butylbenzene

Concen: 20.411 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBSD02

Tot Ion:105 Resp: 611245

Ion Ratio Lower Upper

105 100

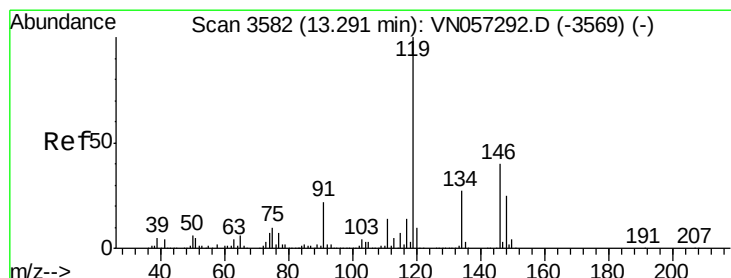
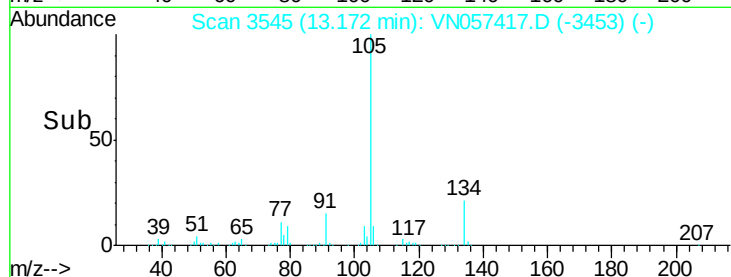
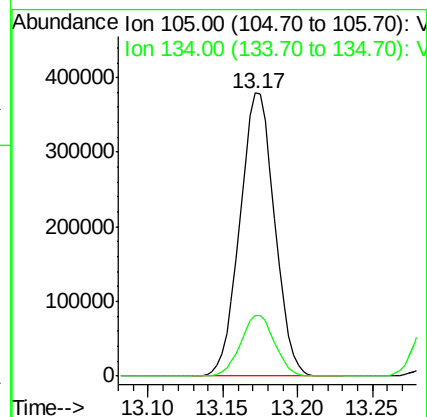
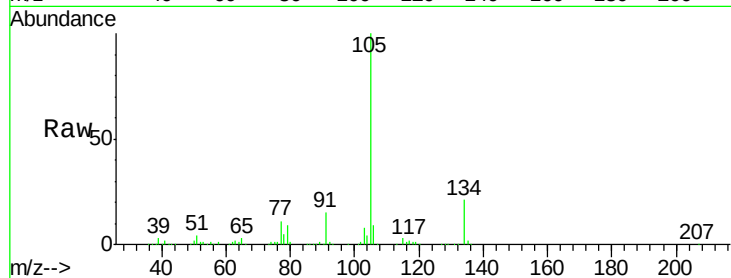
134 21.0 10.4 31.2

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#86

p-Isopropyltoluene

Concen: 19.224 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

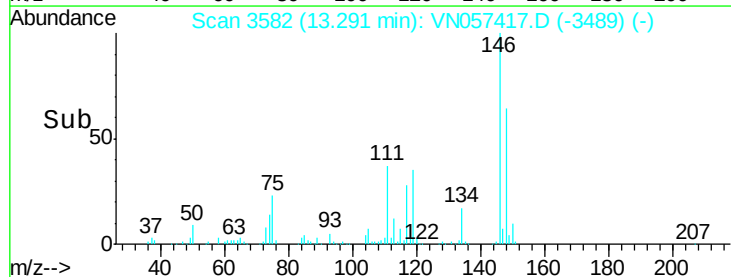
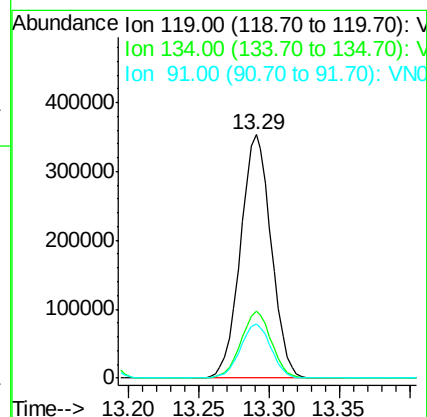
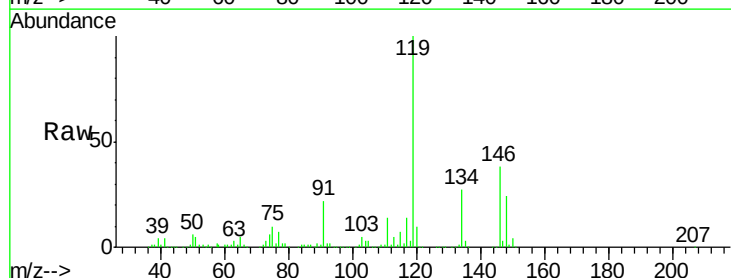
Tgt Ion:119 Resp: 537577

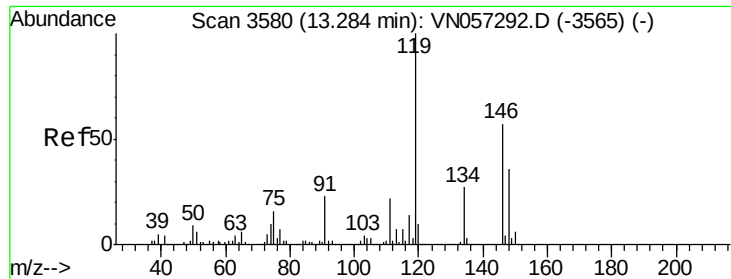
Ion Ratio Lower Upper

119 100

134 27.1 13.4 40.2

91 22.3 11.2 33.5





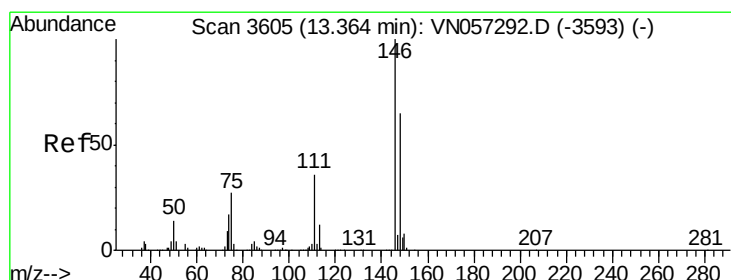
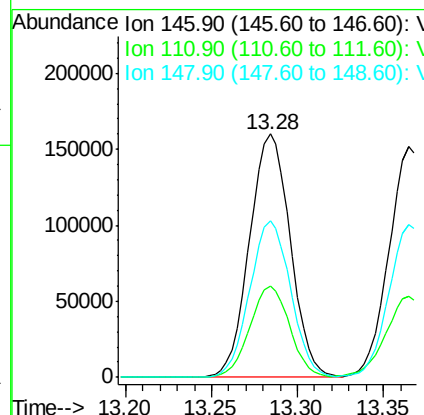
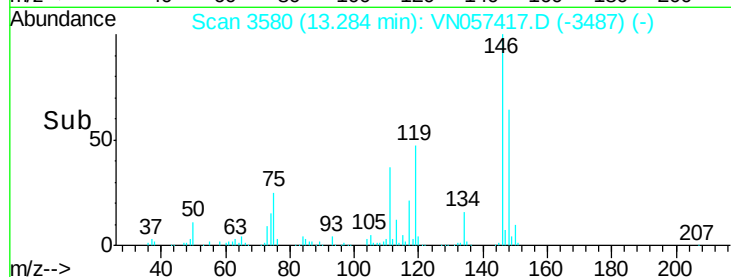
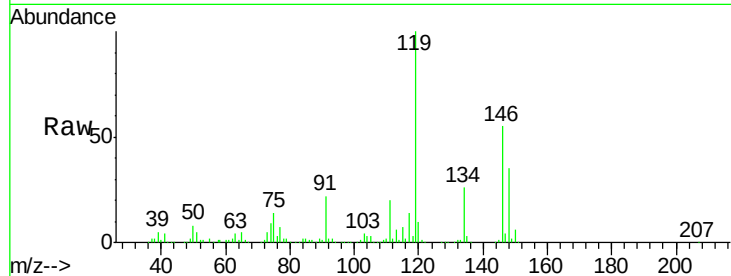
#87
 1,3-Dichlorobenzene
 Concen: 19.841 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.6	18.7	56.1
148	64.4	31.7	95.1

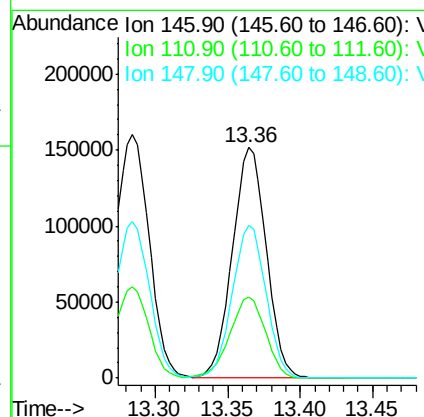
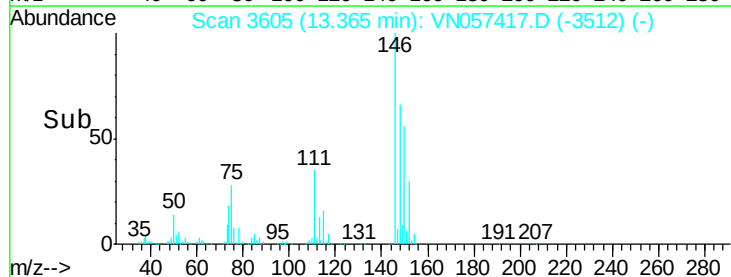
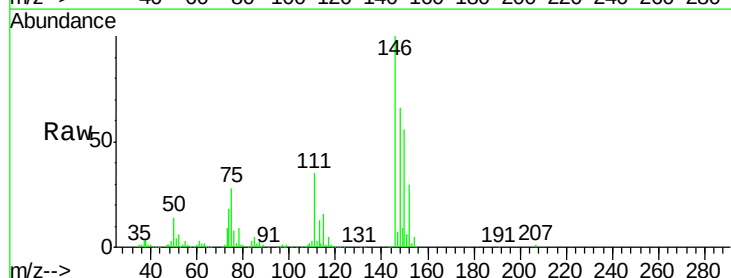
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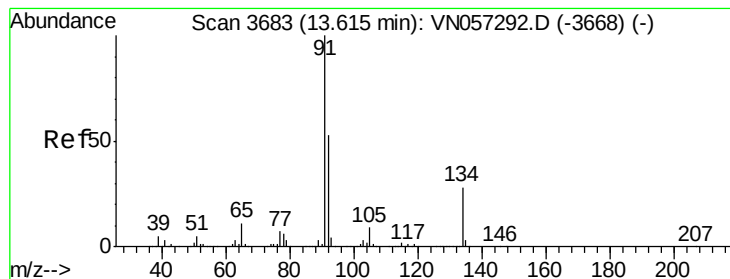
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#88
 1,4-Dichlorobenzene
 Concen: 19.523 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.4	55.4
148	65.9	32.5	97.4





#89

n-Butylbenzene

Concen: 20.671 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

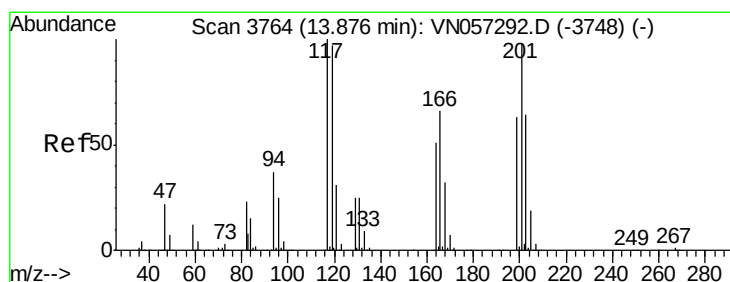
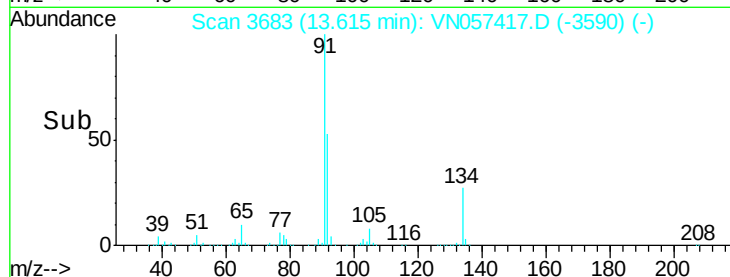
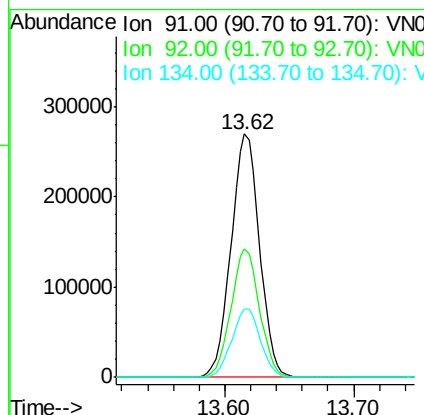
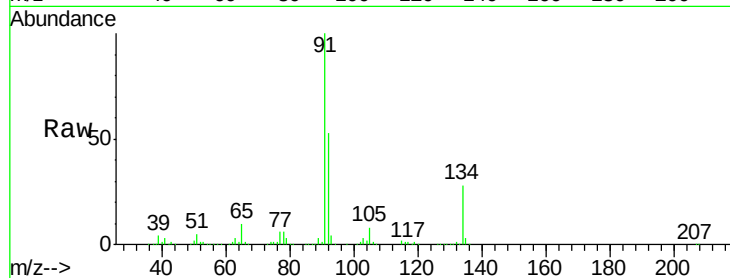
ClientSampleId :

VN0819WBSD02

Tot Ion:	91	Resp:	412085
Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.2	78.6
134	28.3	13.9	41.7

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#90

Hexachloroethane

Concen: 22.755 ug/l

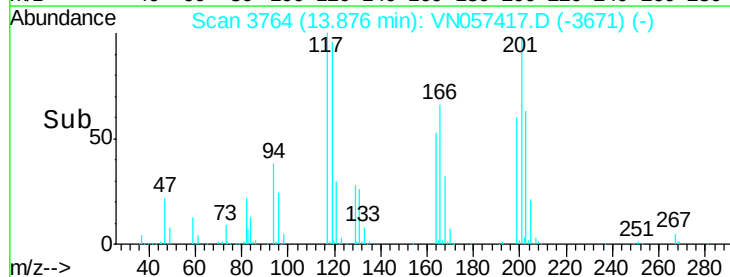
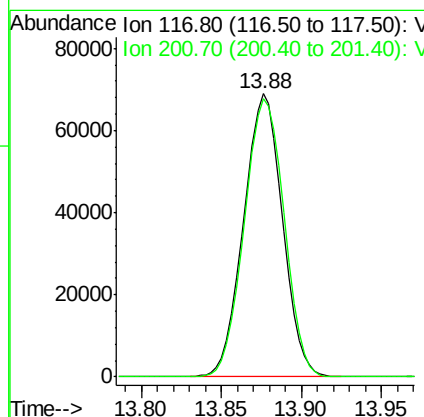
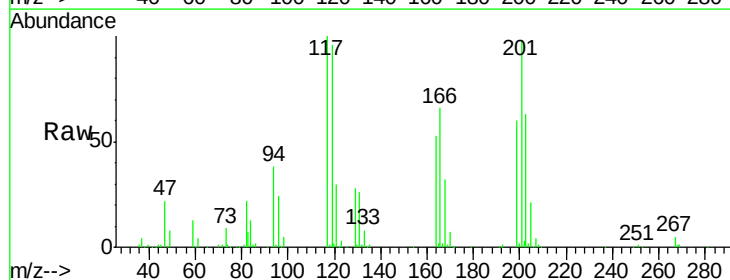
RT: 13.88 min Scan# 3764

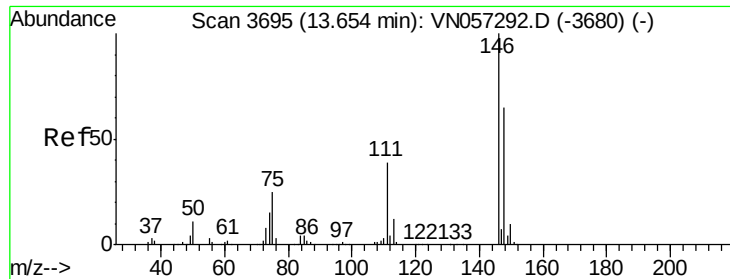
Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Tgt Ion:	117	Resp:	114262
Ion	Ratio	Lower	Upper
117	100		
201	100.5	48.4	145.0





#91

1,2-Dichlorobenzene

Concen: 20.927 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN057417.D

Acq: 19 Aug 2019 23:12

Instrument :

MSVOA_N

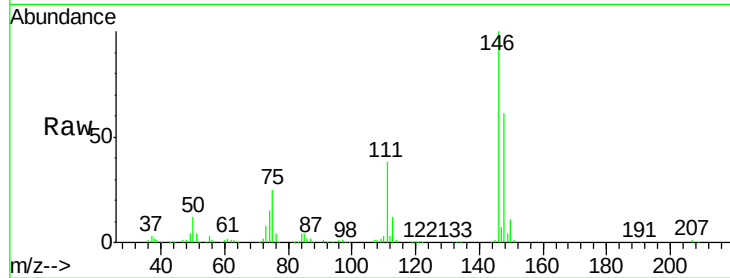
ClientSampleId :

VN0819WBSD02

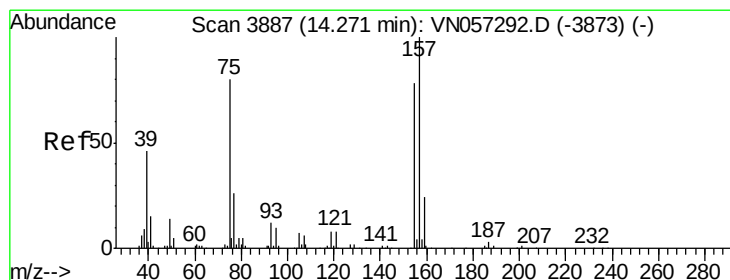
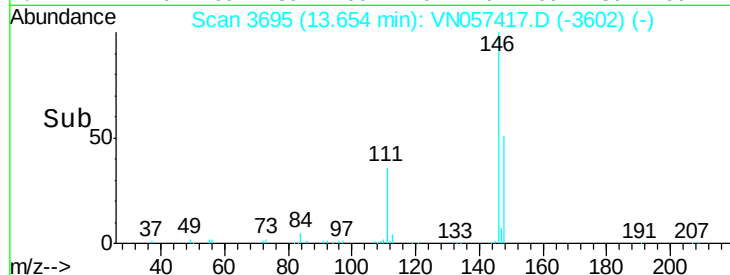
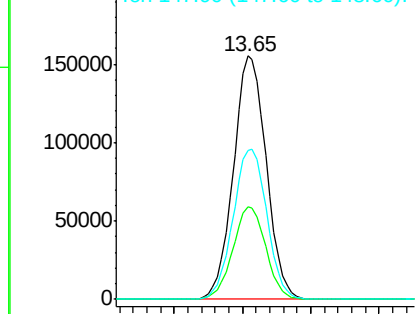
Tot Ion:	146	Resp:	259195
Ion Ratio	Lower	Upper	
146	100		
111	38.0	19.7	59.1
148	63.5	32.0	96.0

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Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 17.045 ug/l

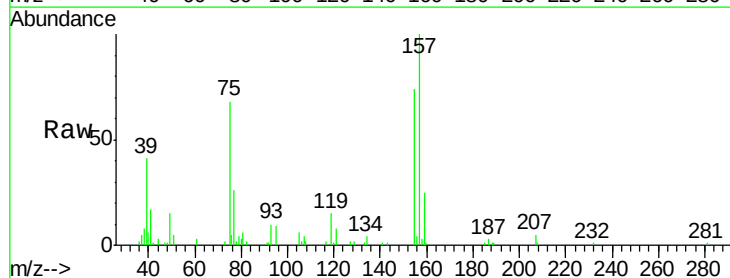
RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

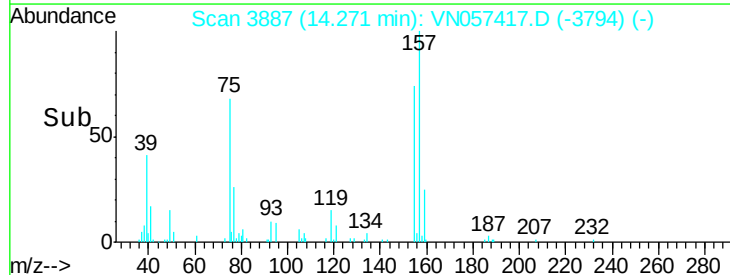
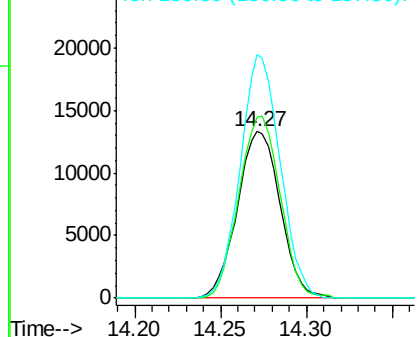
Lab File: VN057417.D

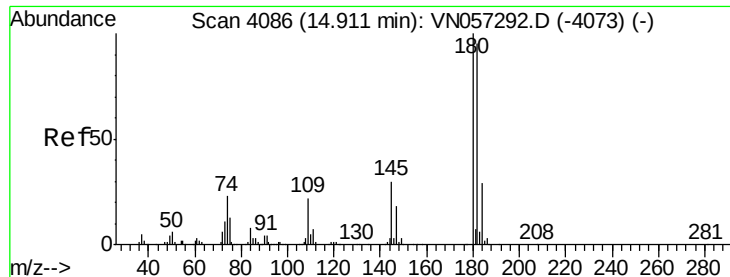
Acq: 19 Aug 2019 23:12

Tgt Ion:	75	Resp:	23050
Ion Ratio	Lower	Upper	
75	100		
155	105.4	49.6	148.8
157	136.0	63.7	191.1



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





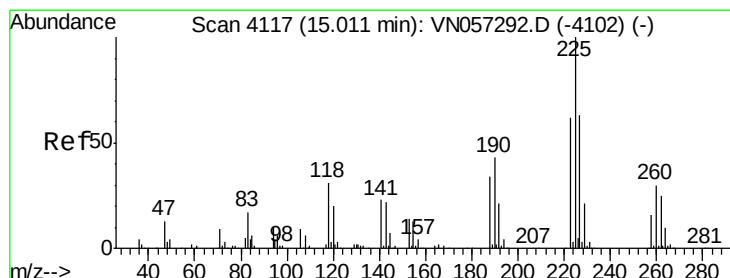
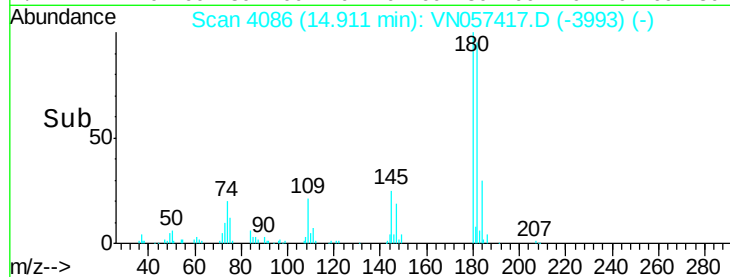
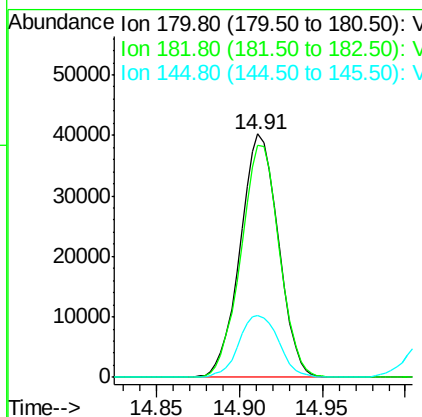
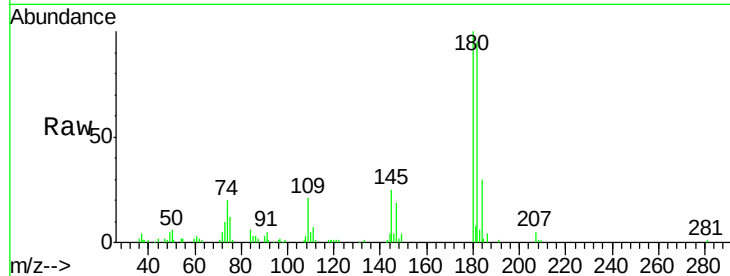
#93
 1,2,4-Trichlorobenzene
 Concen: 16.954 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBSD02

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.2
145	26.5	14.5	43.6

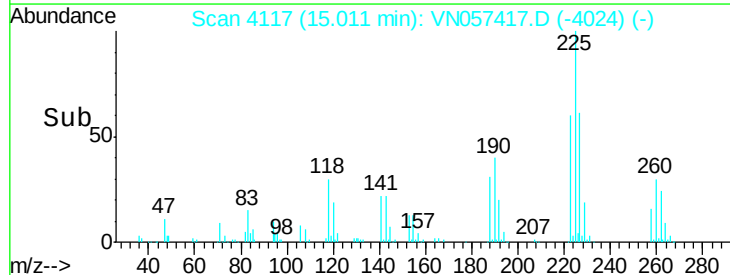
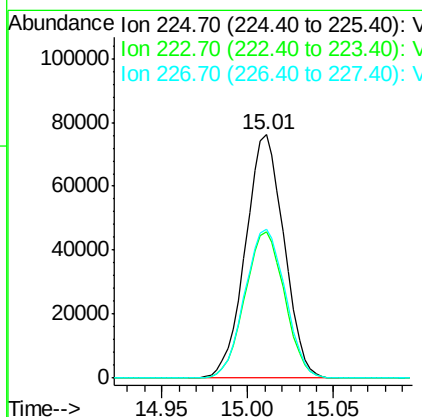
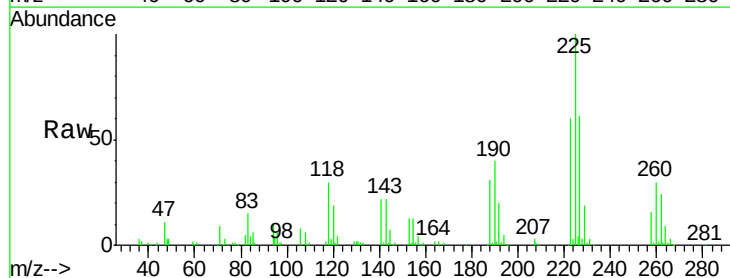
Manual Integrations
 APPROVED

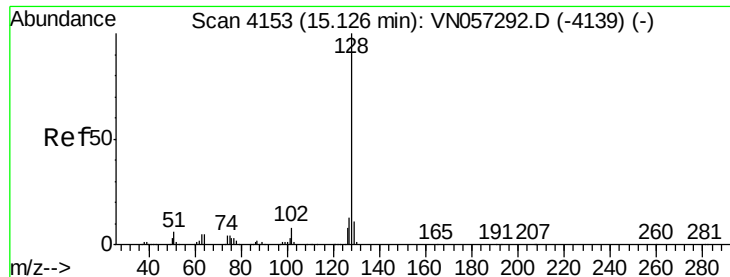
MMDadoda
 8/21/2019 9:45:37 AM



#94
 Hexachlorobutadiene
 Concen: 22.508 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN057417.D
 Acq: 19 Aug 2019 23:12

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.8	30.7	92.1
227	64.1	30.9	92.7





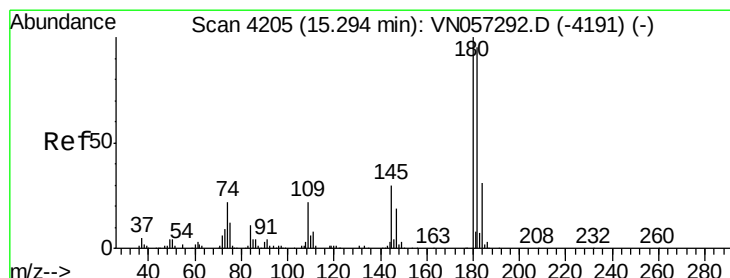
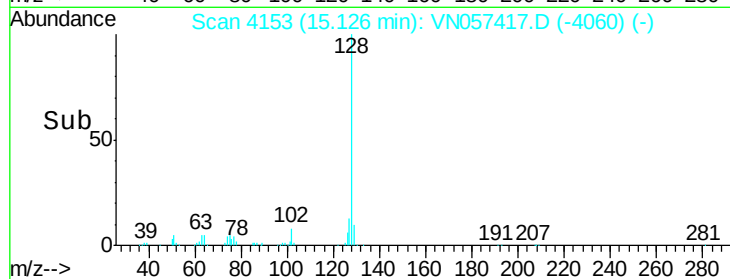
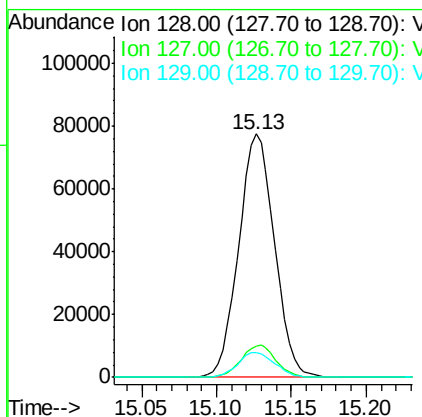
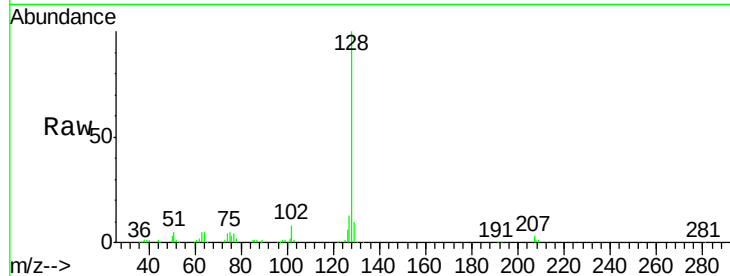
#95
Naphthalene
Concen: 20.916 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Instrument :
MSVOA_N
ClientSampleId :
VN0819WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
128	100		128771		
127	12.9		10.5	15.7	
129	10.7		8.8	13.2	

Manual Integrations
APPROVED

MMDadoda
8/21/2019 9:45:37 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.636 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. 0.00 min
Lab File: VN057417.D
Acq: 19 Aug 2019 23:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
180	100		62495		
182	96.8		47.9	143.6	
145	29.4		15.1	45.3	

