

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080219\
 Data File : VN057057.D
 Acq On : 2 Aug 2019 11:36
 Operator : JC/SP
 Sample : VN0802WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0802WBS01

Manual Integrations
 APPROVED

MMDadoda
 8/6/2019 2:16:45 PM

Quant Time: Aug 03 04:44:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	453705	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	667245	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	580765	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	220689	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	232722	50.11	ug/l	0.00
Spiked Amount 50.000			Recovery =	100.22%		
35) Dibromofluoromethane	7.58	113	212367	49.72	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.44%		
50) Toluene-d8	10.08	98	787953	48.37	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.74%		
62) 4-Bromofluorobenzene	12.40	95	242129	45.66	ug/l	0.00
Spiked Amount 50.000			Recovery =	91.32%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	93554	20.397	ug/l	99
3) Chloromethane	2.05	50	102459	18.655	ug/l	99
4) Vinyl Chloride	2.18	62	96053	18.651	ug/l	100
5) Bromomethane	2.55	94	59316	18.527	ug/l	95
6) Chloroethane	2.69	64	53381	18.803	ug/l	98
7) Trichlorofluoromethane	3.00	101	137302	20.367	ug/l	96
8) Diethyl Ether	3.40	74	50663	20.080	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	83233	19.914	ug/l	98
10) Methyl Iodide	3.94	142	106044	18.987	ug/l	100
11) Tert butyl alcohol	4.77	59	67516	107.550	ug/l #	87
12) 1,1-Dichloroethene	3.72	96	78794	19.758	ug/l	94
13) Acrolein	3.60	56	25430	77.235	ug/l	96
14) Allyl chloride	4.31	41	124459	19.185	ug/l	99
15) Acrylonitrile	4.97	53	186689	101.409	ug/l	100
16) Acetone	3.81	43	156523	93.028	ug/l	96
17) Carbon Disulfide	4.04	76	183257	17.293	ug/l	99
18) Methyl Acetate	4.31	43	103247	19.236	ug/l	98
19) Methyl tert-butyl Ether	5.03	73	245524	20.647	ug/l	97
20) Methylene Chloride	4.54	84	94141	19.424	ug/l	96
21) trans-1,2-Dichloroethene	5.03	96	82530	19.486	ug/l	98
22) Diisopropyl ether	5.94	45	268244	20.069	ug/l	95
23) Vinyl Acetate	5.88	43	903421	97.553	ug/l	99
24) 1,1-Dichloroethane	5.83	63	156638	19.863	ug/l	99
25) 2-Butanone	6.82	43	232374	97.398	ug/l	97
26) 2,2-Dichloropropane	6.81	77	122620	20.449	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	99523	19.867	ug/l	99
28) Bromochloromethane	7.18	49	76701	20.692	ug/l	97
29) Tetrahydrofuran	7.20	42	150701	96.813	ug/l	98
30) Chloroform	7.36	83	163086	20.226	ug/l	98
31) Cyclohexane	7.64	56	138436	18.141	ug/l	94
32) 1,1,1-Trichloroethane	7.56	97	133691	20.781	ug/l	98
36) 1,1-Dichloropropene	7.78	75	114746	19.544	ug/l	99
37) Ethyl Acetate	6.92	43	91984	19.561	ug/l	99
38) Carbon Tetrachloride	7.76	117	114284	20.578	ug/l	98

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	135635	18.075	ug/l	98
40) Benzene	8.03	78	358656	19.833	ug/l	97
41) Methacrylonitrile	7.18	41	56841m	26.147	ug/l	
42) 1,2-Dichloroethane	8.11	62	117176	20.675	ug/l	100
43) Isopropyl Acetate	8.16	43	154092	19.826	ug/l	99
44) Trichloroethene	8.82	130	100503	20.173	ug/l	100
45) 1,2-Dichloropropane	9.11	63	95335	19.710	ug/l	97
46) Dibromomethane	9.20	93	60961	20.898	ug/l	98
47) Bromodichloromethane	9.39	83	116866	20.377	ug/l	100
48) Methyl methacrylate	9.19	41	74904	19.962	ug/l	98
49) 1,4-Dioxane	9.19	88	32688	422.712	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	462561	100.165	ug/l	100
52) Toluene	10.15	92	221548	20.391	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	117511	19.745	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	139611	20.175	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	88519	20.316	ug/l	98
56) Ethyl methacrylate	10.42	69	118019	19.065	ug/l	100
57) 1,3-Dichloropropane	10.70	76	145518	20.140	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	194697	74.567	ug/l	98
59) 2-Hexanone	10.74	43	322831	92.370	ug/l	100
60) Dibromochloromethane	10.90	129	92377	20.694	ug/l	97
61) 1,2-Dibromoethane	11.00	107	89966	21.158	ug/l	100
64) Tetrachloroethene	10.63	164	105238	21.028	ug/l	99
65) Chlorobenzene	11.43	112	237996	20.106	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.50	131	92075	20.667	ug/l	99
67) Ethyl Benzene	11.51	91	400892	19.596	ug/l	99
68) m/p-Xylenes	11.62	106	306002	40.530	ug/l	99
69) o-Xylene	11.94	106	149090	20.184	ug/l	100
70) Styrene	11.96	104	239580	19.532	ug/l	99
71) Bromoform	12.12	173	63026	20.263	ug/l #	98
73) Isopropylbenzene	12.25	105	396228	20.774	ug/l	99
74) N-amyl acetate	12.07	43	112195	20.259	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	110529	21.470	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	104218m	23.253	ug/l	
77) Bromobenzene	12.52	156	101735	20.437	ug/l	98
78) n-propylbenzene	12.59	91	411812	20.222	ug/l	99
79) 2-Chlorotoluene	12.67	91	255823	20.401	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	338353	21.615	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	28785	20.636	ug/l	94
82) 4-Chlorotoluene	12.77	91	236582	20.160	ug/l	100
83) tert-Butylbenzene	12.99	119	296102	21.368	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	314759	20.897	ug/l	99
85) sec-Butylbenzene	13.17	105	367547	20.563	ug/l	99
86) p-Isopropyltoluene	13.29	119	327614	20.645	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	151274	19.978	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	140532	19.279	ug/l	98
89) n-Butylbenzene	13.61	91	230460	18.843	ug/l	100
90) Hexachloroethane	13.87	117	56075	20.521	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	153604	20.612	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	16461	21.699	ug/l	91

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ALS Vial : 8 Sample Multiplier: 1

Instrument :
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ClientSampleId :
VN0802WBS01

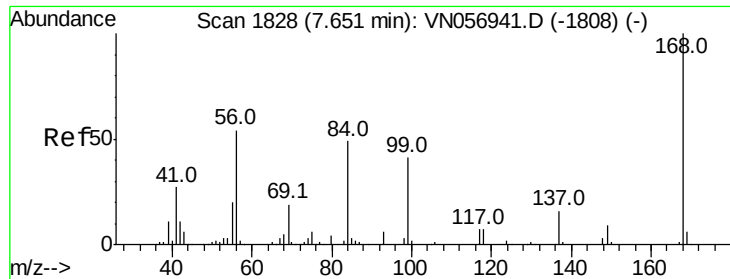
Manual Integrations
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Quant Title : SW846 8260
QLast Update : Sat Jul 27 01:33:29 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	48246	14.580	ug/l	98
94) Hexachlorobutadiene	15.00	225	61815	21.879	ug/l	98
95) Naphthalene	15.12	128	115834	15.055	ug/l	98
96) 1,2,3-Trichlorobenzene	15.29	180	55959	15.863	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN0802WBS01

Tot Ion:168 Resp: 453705

Ion Ratio Lower Upper

168 100

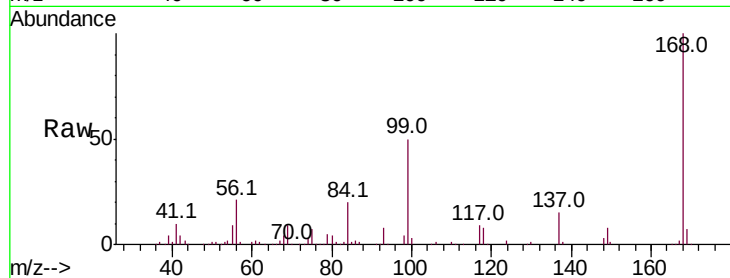
99 49.6 39.0 58.4

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

200000

150000

100000

50000

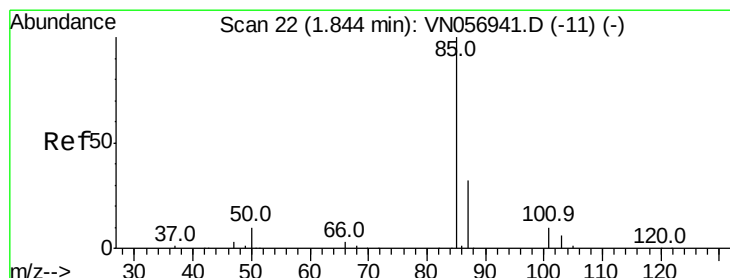
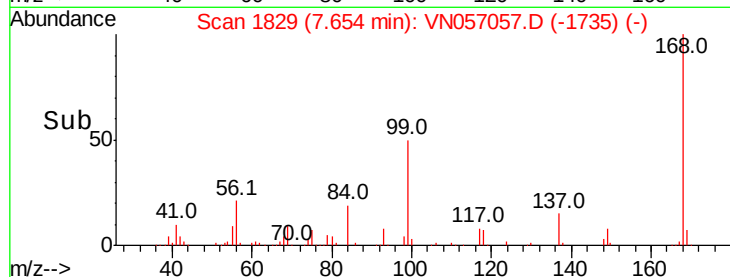
0

7.65

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 20.397 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN057057.D

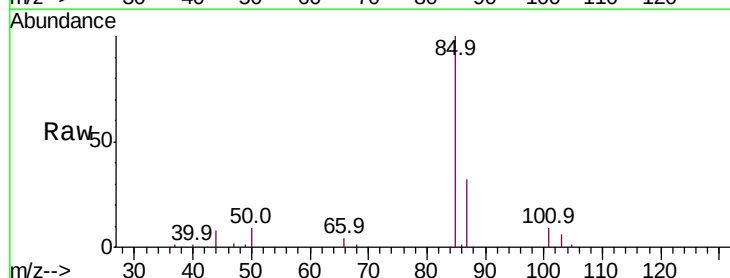
Acq: 2 Aug 2019 11:36

Tgt Ion: 85 Resp: 93554

Ion Ratio Lower Upper

85 100

87 31.9 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

80000

60000

40000

20000

0

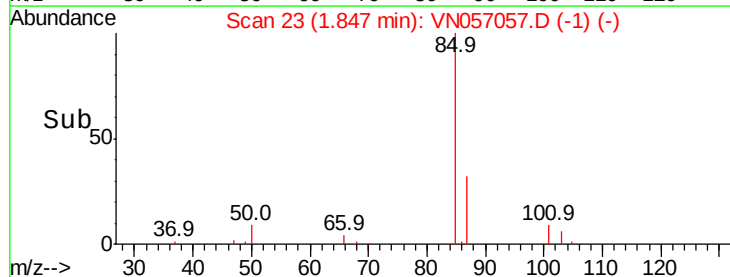
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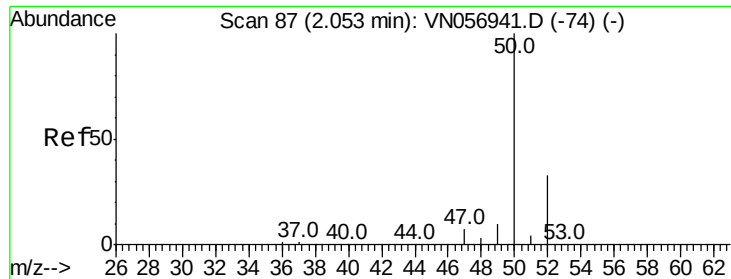
1.80

1.90

1.95

Time-->





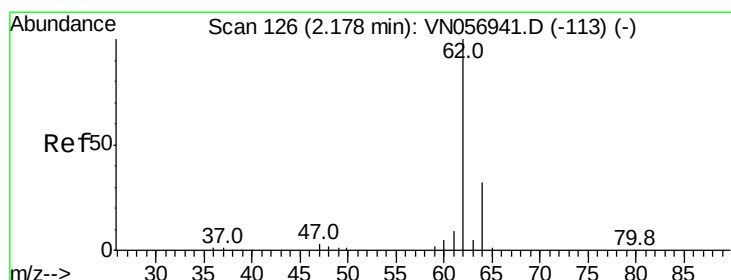
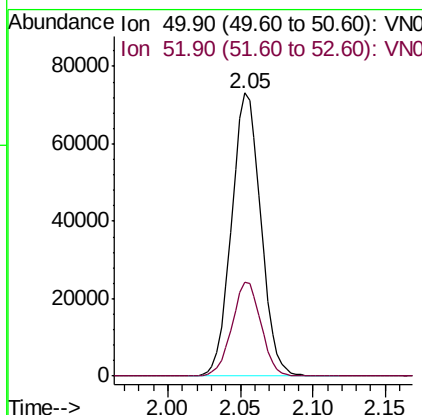
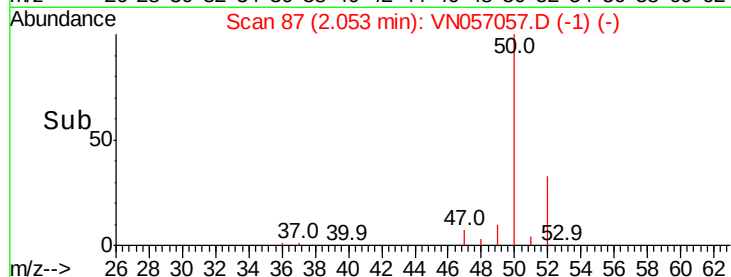
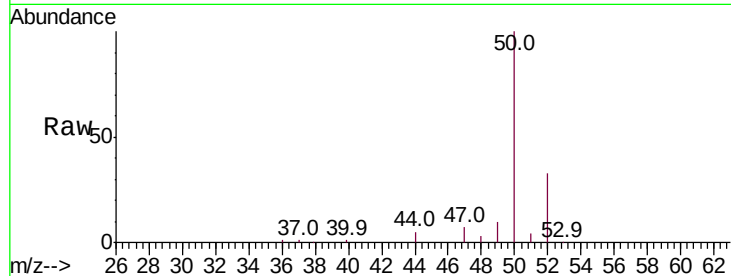
#3
Chloromethane
Concen: 18.655 ug/l
RT: 2.05 min Scan# 87
Delta R.T. -0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
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ClientSampleId :
VN0802WBS01

Tot Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.2	39.2

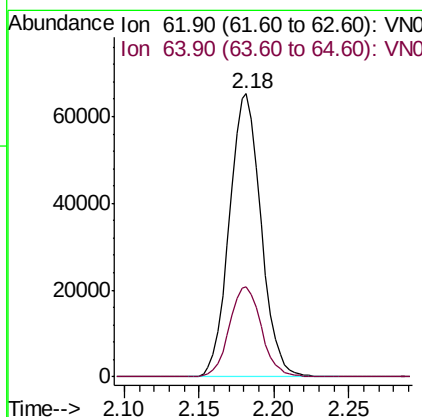
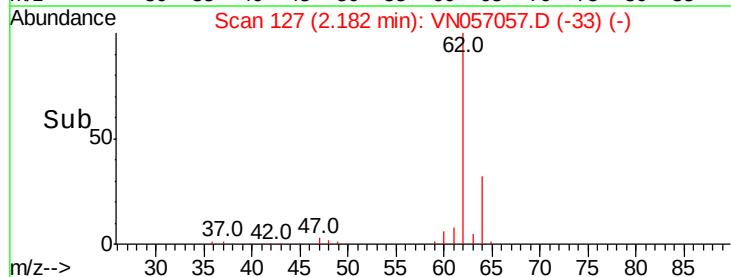
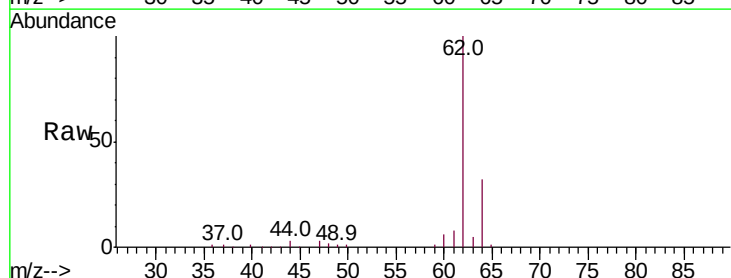
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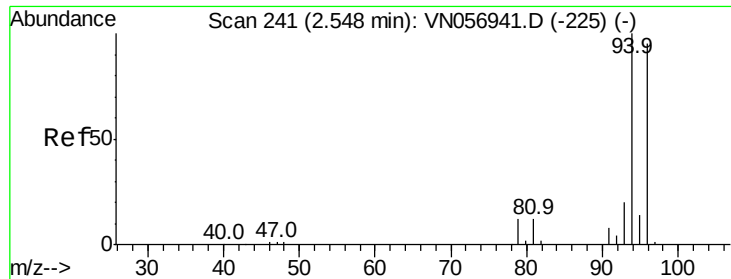
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#4
Vinyl Chloride
Concen: 18.651 ug/l
RT: 2.18 min Scan# 127
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.4	38.0





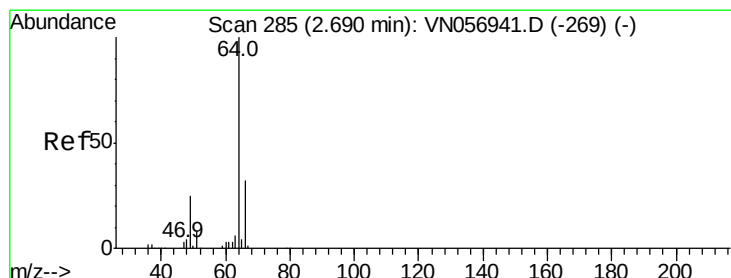
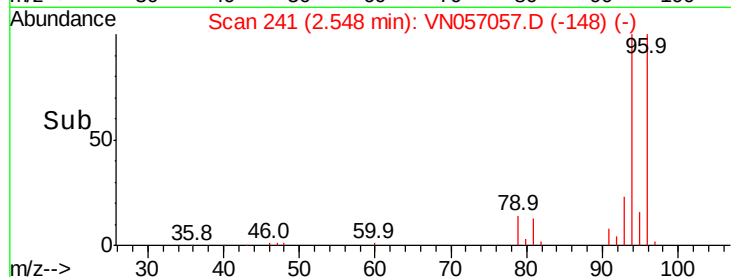
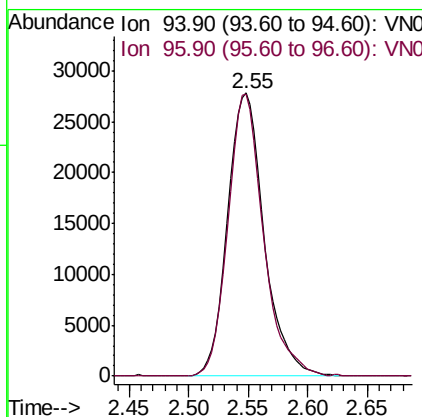
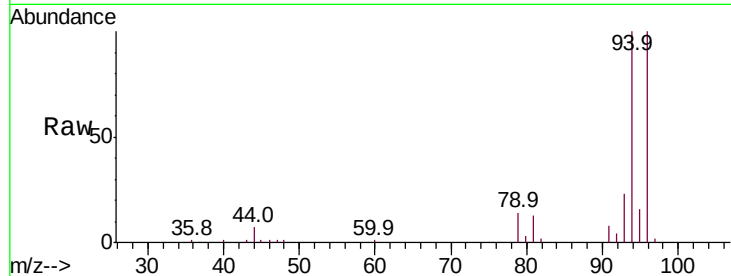
#5
Bromomethane
Concen: 18.527 ug/l
RT: 2.55 min Scan# 241
Delta R.T. -0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN0802WBS01

Tot Ion: 94 Resp: 59316
Ion Ratio Lower Upper
94 100
96 99.9 76.2 114.2

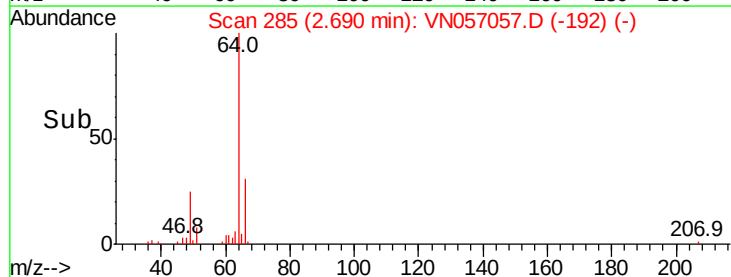
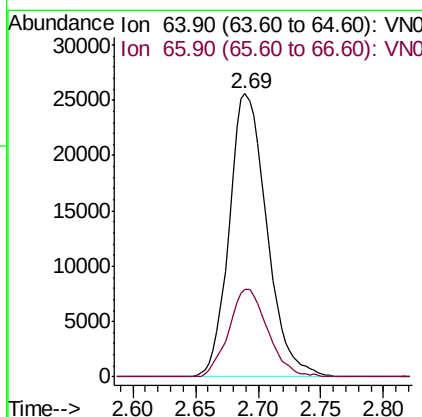
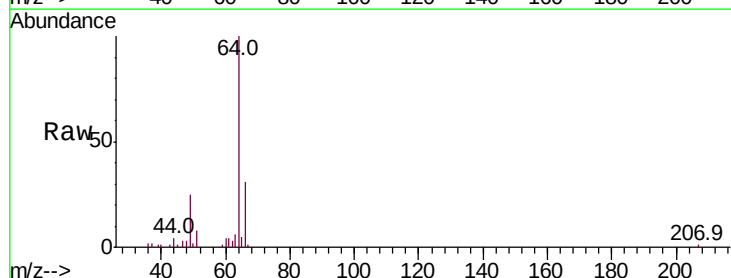
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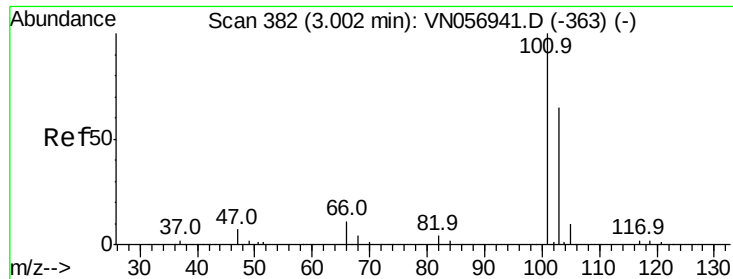
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#6
Chloroethane
Concen: 18.803 ug/l
RT: 2.69 min Scan# 285
Delta R.T. -0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion: 64 Resp: 53381
Ion Ratio Lower Upper
64 100
66 31.0 25.8 38.8





#7

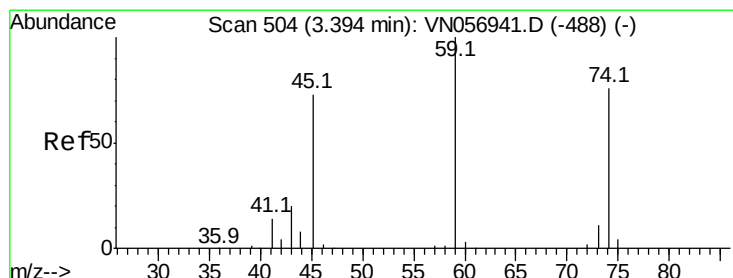
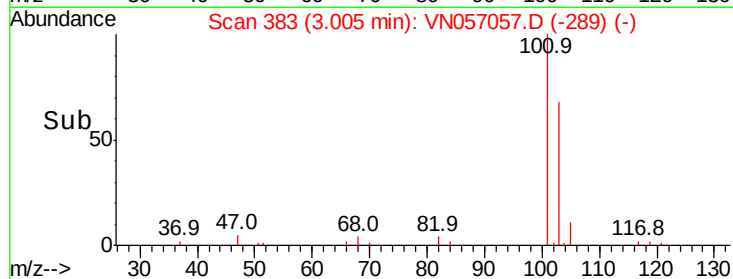
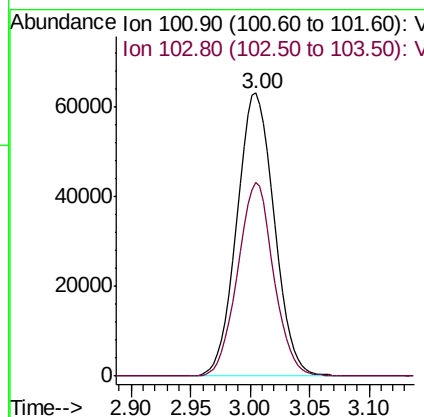
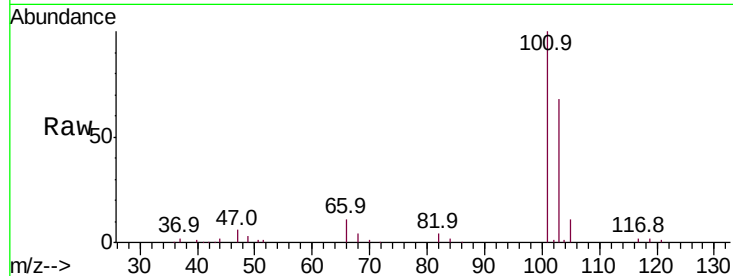
Trichlorofluoromethane
 Concen: 20.367 ug/l
 RT: 3.00 min Scan# 383
 Delta R.T. 0.00 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0802WBS01

Tot Ion:101 Resp: 137302
 Ion Ratio Lower Upper
 101 100
 103 68.3 52.1 78.1

Manual Integrations
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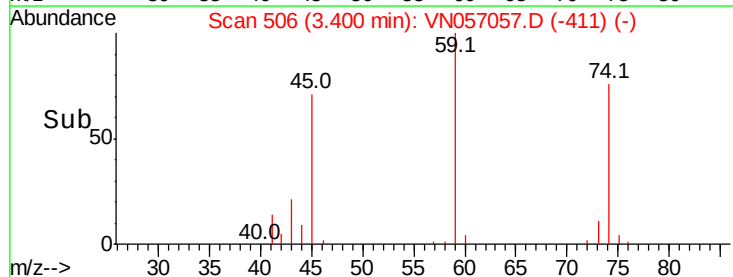
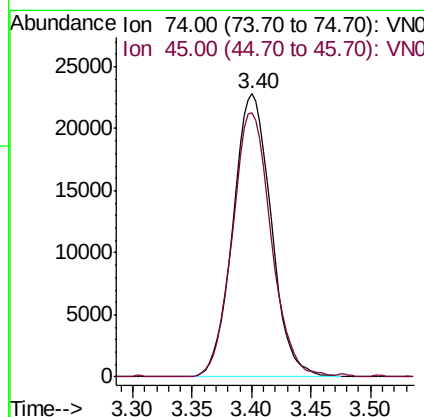
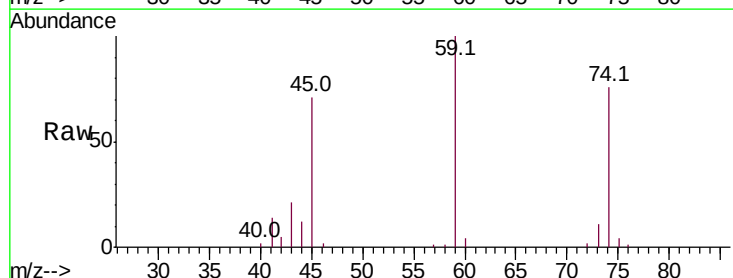
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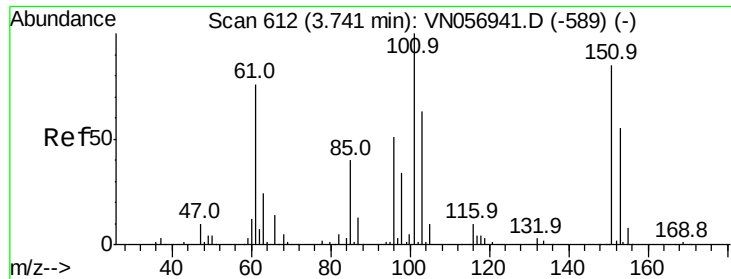


#8

Diethyl Ether
 Concen: 20.080 ug/l
 RT: 3.40 min Scan# 506
 Delta R.T. 0.01 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Tgt Ion: 74 Resp: 50663
 Ion Ratio Lower Upper
 74 100
 45 95.0 48.1 144.3





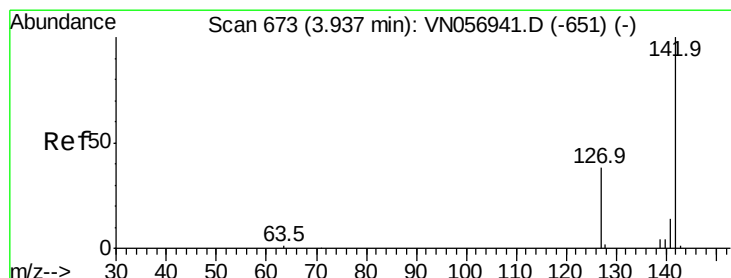
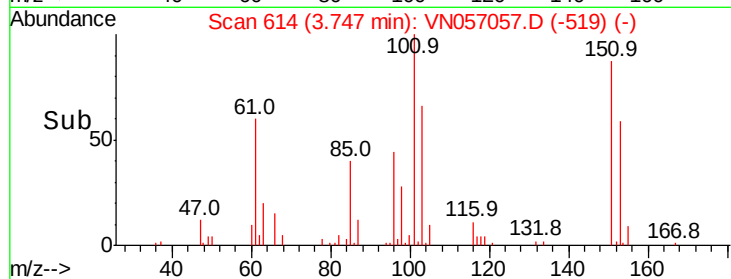
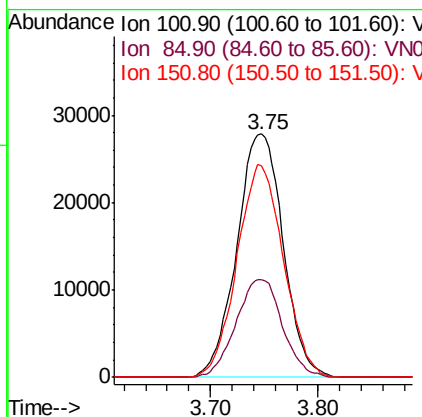
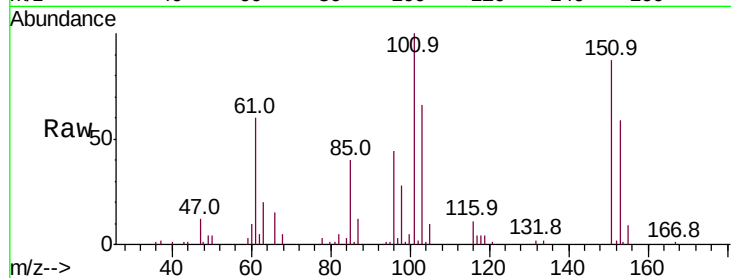
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.914 ug/l
 RT: 3.75 min Scan# 614
 Delta R.T. 0.01 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

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 VN0802WBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	83233		
85	40.2		32.3	48.5
151	87.4		68.0	102.0

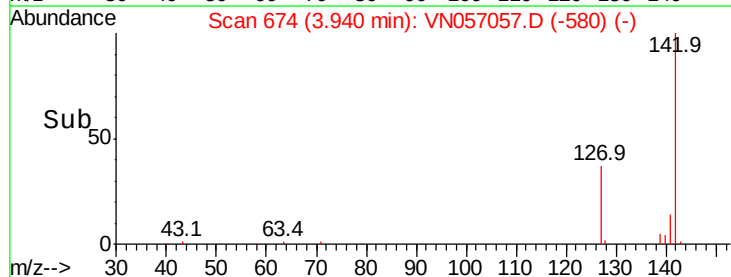
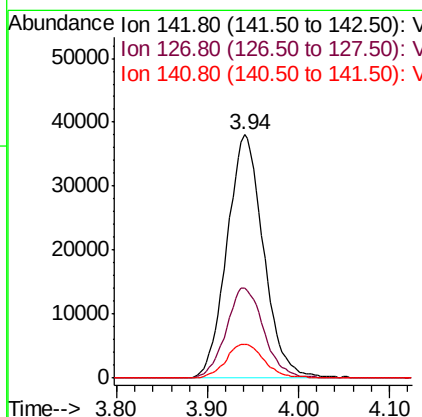
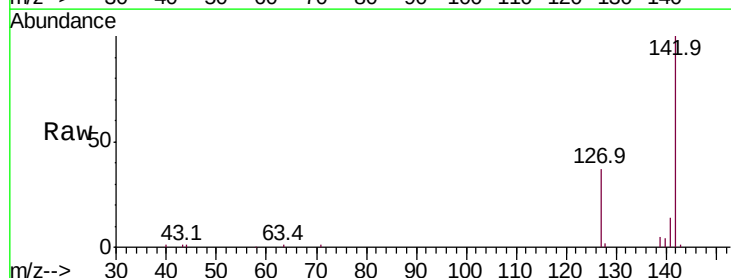
Manual Integrations
 APPROVED

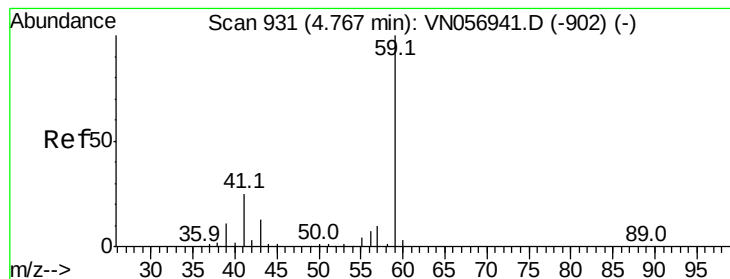
MMDadoda
 8/6/2019 2:16:45 PM



#10
 Methyl Iodide
 Concen: 18.987 ug/l
 RT: 3.94 min Scan# 674
 Delta R.T. 0.00 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	106044		
127	38.0		30.4	45.6
141	14.5		11.1	16.7





#11

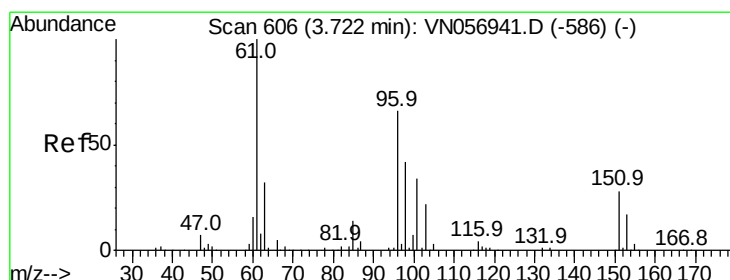
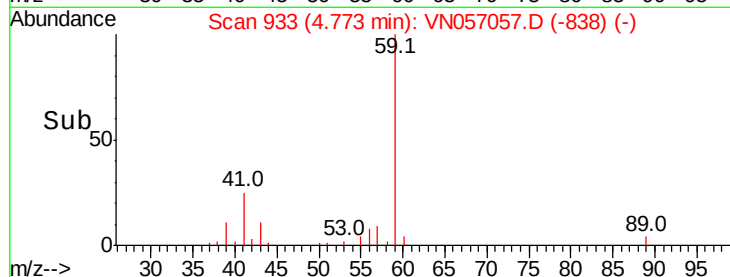
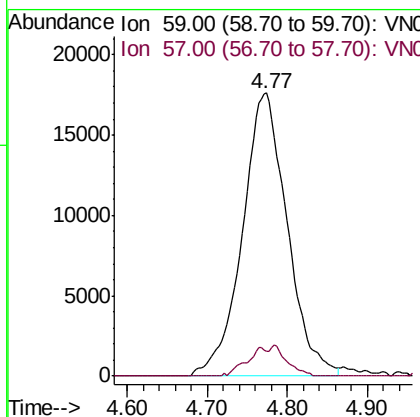
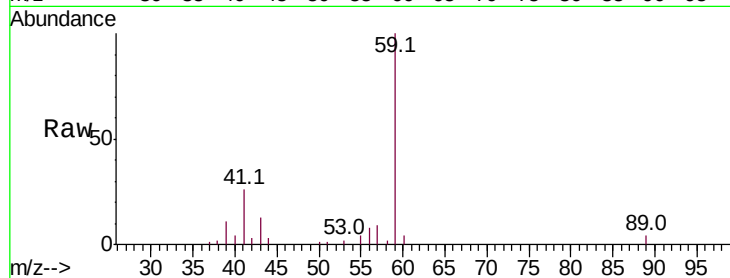
Tert butyl alcohol
 Concen: 107.550 ug/l
 RT: 4.77 min Scan# 933
 Delta R.T. 0.01 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0802WBS01

Tot Ion	59	57	Ratio	100	4.5	Resp:	67516	Lower	Upper
Ion	59	57	Ratio	100	4.5	Resp:	67516	Lower	Upper
								7.5	11.3#

Manual Integrations
 APPROVED

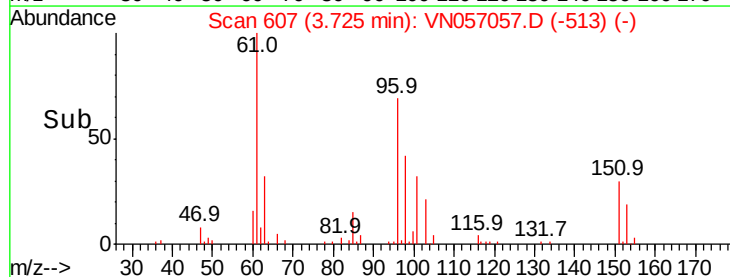
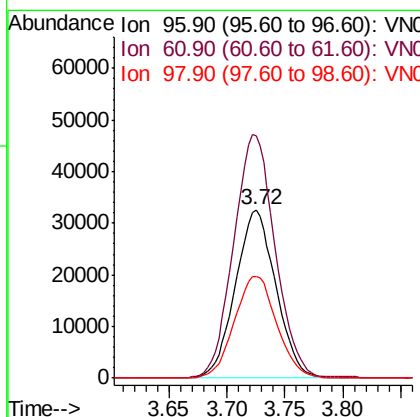
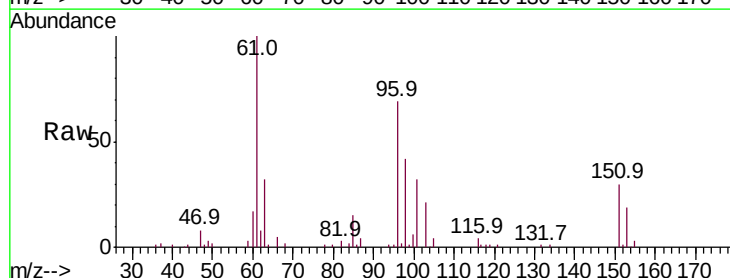
MMDadoda
 8/6/2019 2:16:45 PM

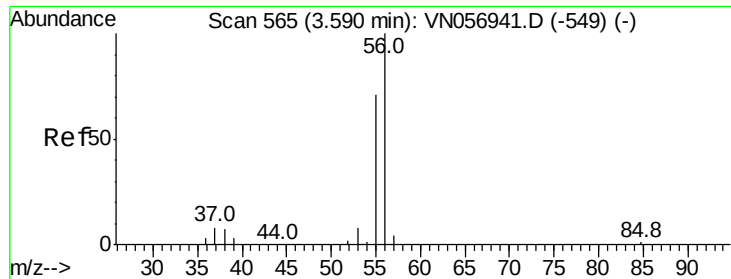


#12

1,1-Dichloroethene
 Concen: 19.758 ug/l
 RT: 3.72 min Scan# 607
 Delta R.T. 0.00 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Tgt Ion	96	61	98	Ratio	100	144.1	60.5	Resp:	78794	Lower	Upper
Ion	96	61	98	Ratio	100	144.1	60.5	Resp:	78794	Lower	Upper
										121.8	182.8
										51.7	77.5





#13

Acrolein

Concen: 77.235 ug/l

RT: 3.60 min Scan# 567

Delta R.T. 0.01 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN0802WBS01

Tot Ion: 56 Resp: 25430

Ion Ratio Lower Upper

56 100

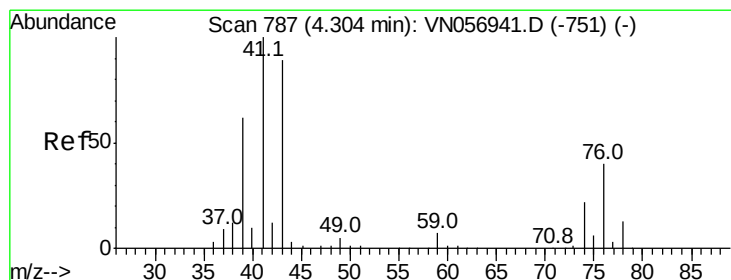
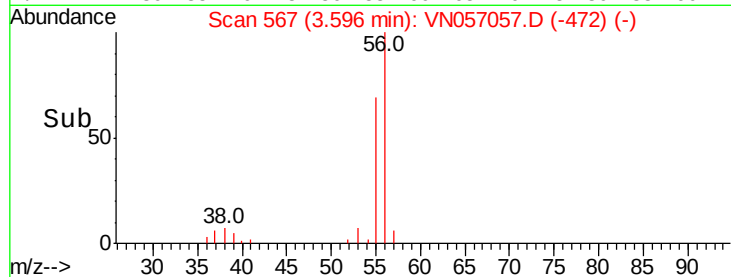
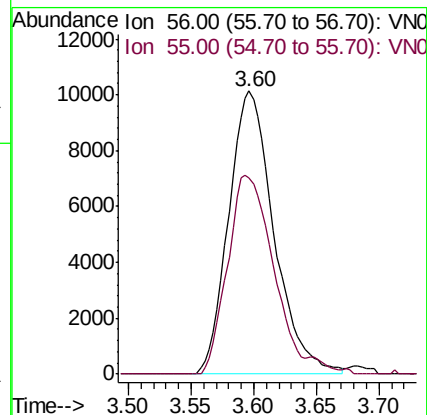
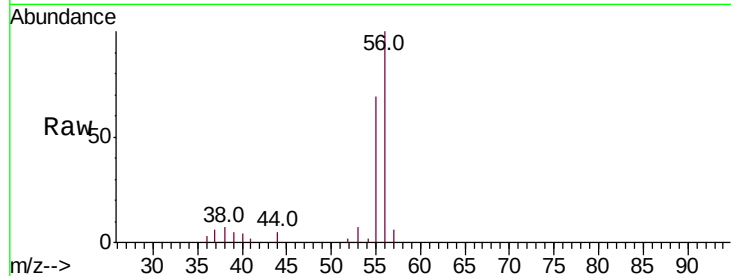
55 72.7 55.8 83.6

Manual Integrations

APPROVED

MMDadoda

8/6/2019 2:16:45 PM



#14

Allyl chloride

Concen: 19.185 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

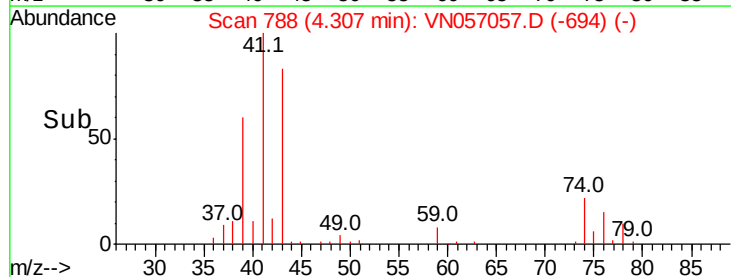
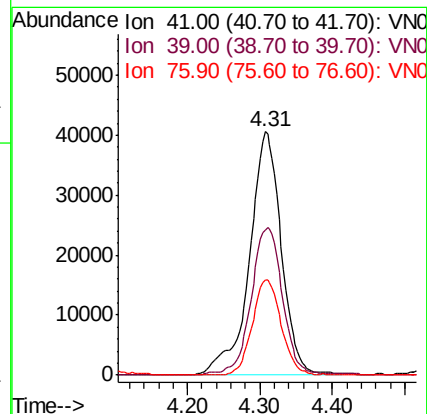
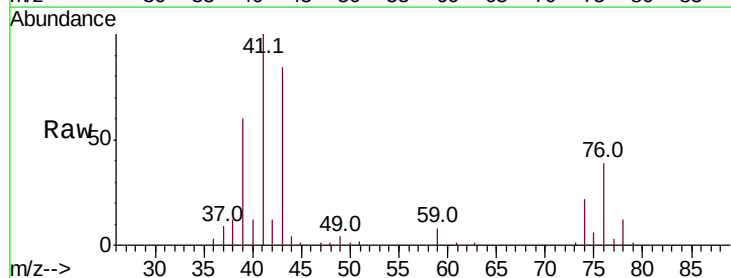
Tgt Ion: 41 Resp: 124459

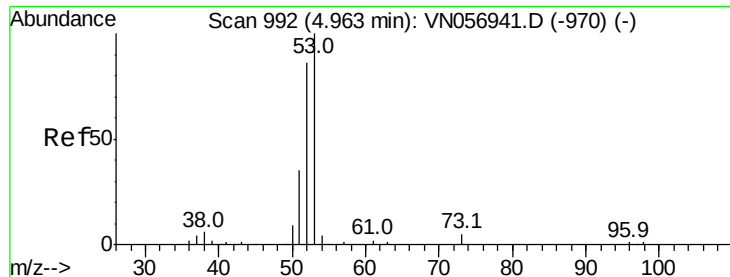
Ion Ratio Lower Upper

41 100

39 59.5 46.4 69.6

76 35.3 28.4 42.6





#15

Acrylonitrile

Concen: 101.409 ug/l

RT: 4.97 min Scan# 995

Delta R.T. 0.01 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

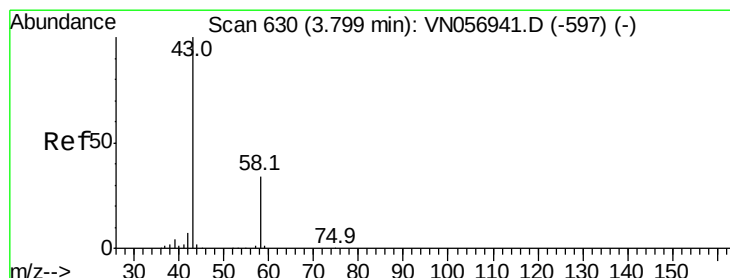
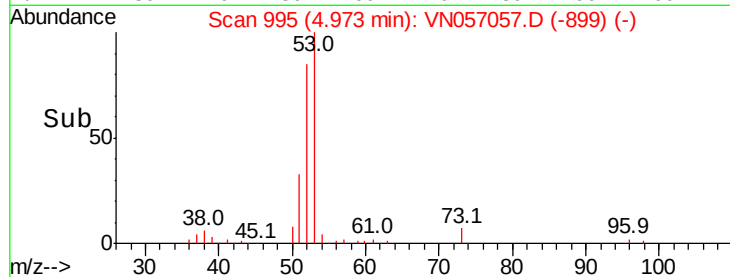
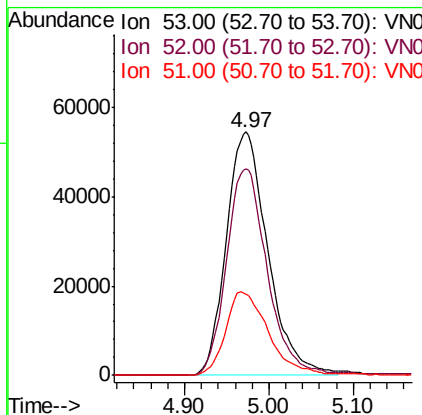
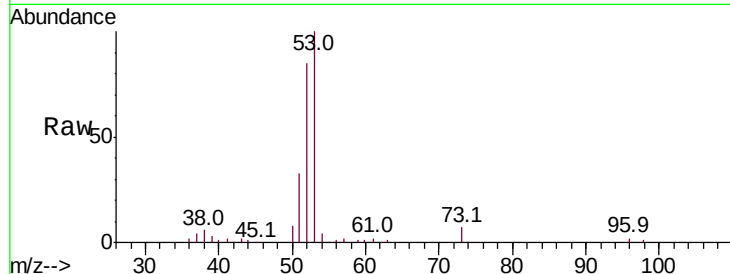
ClientSampleId :

VN0802WBS01

Tot Ion:	53	Resp:	186689
Ion Ratio		Lower	Upper
53	100		
52	83.3	66.5	99.7
51	35.1	28.4	42.6

Manual Integrations
APPROVED

MMDadoda
8/6/2019 2:16:45 PM



#16

Acetone

Concen: 93.028 ug/l

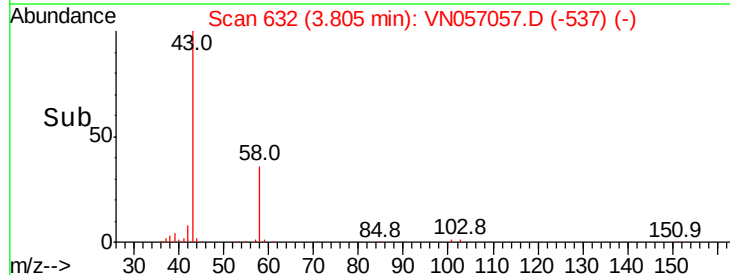
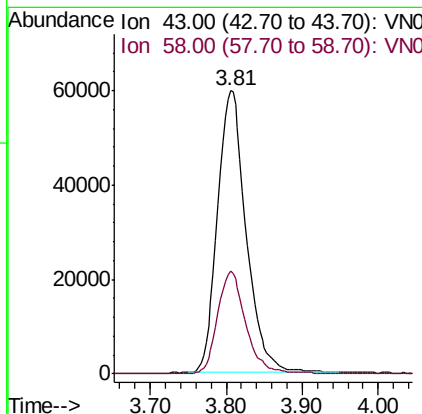
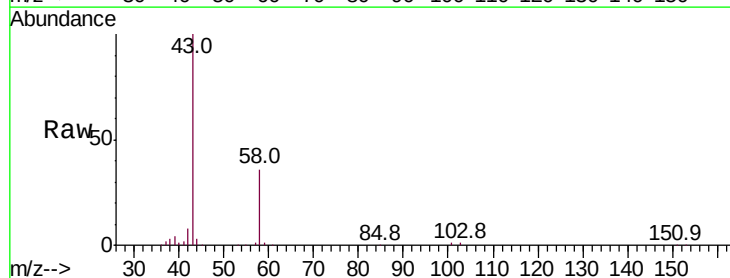
RT: 3.81 min Scan# 632

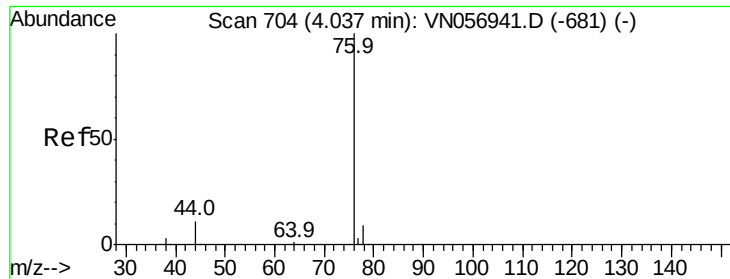
Delta R.T. 0.01 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Tgt Ion:	43	Resp:	156523
Ion Ratio		Lower	Upper
43	100		
58	36.5	27.2	40.8





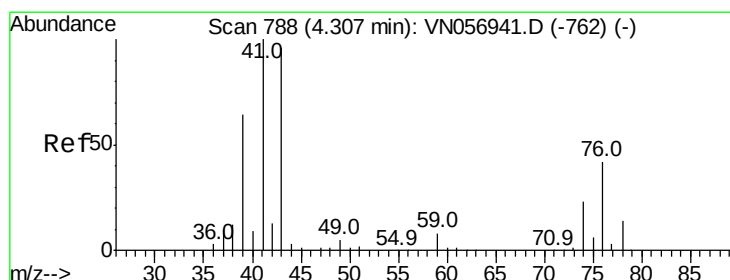
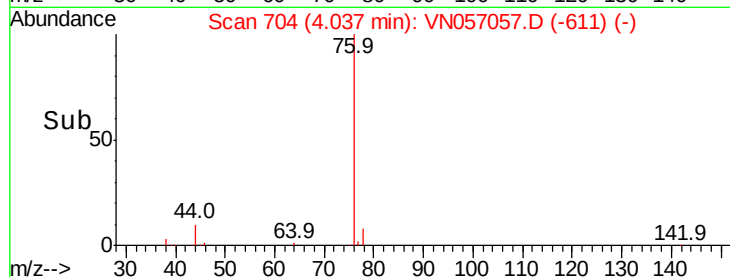
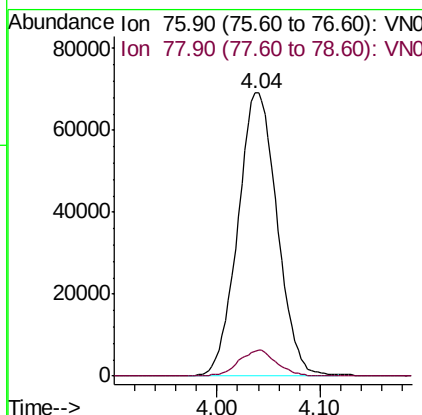
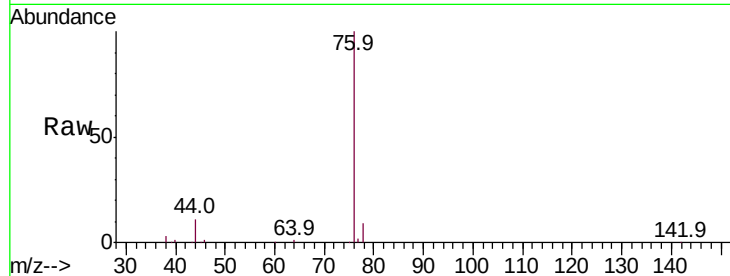
#17
Carbon Disulfide
Concen: 17.293 ug/l
RT: 4.04 min Scan# 704
Delta R.T. -0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN0802WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.2	10.8

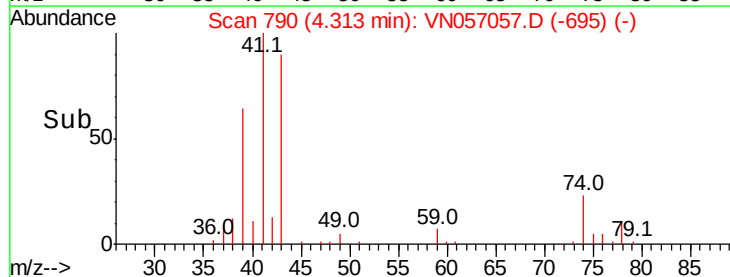
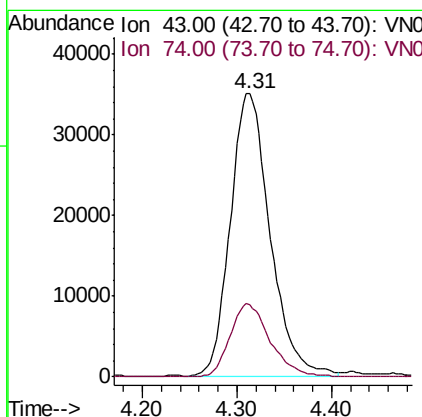
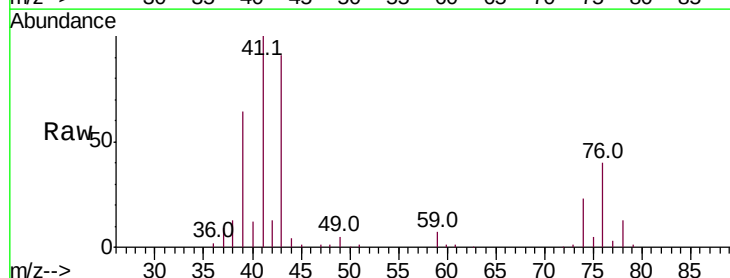
Manual Integrations
APPROVED

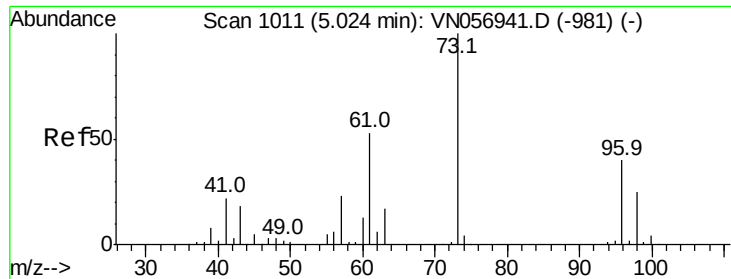
MMDadoda
8/6/2019 2:16:45 PM



#18
Methyl Acetate
Concen: 19.236 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.8	19.7	29.5





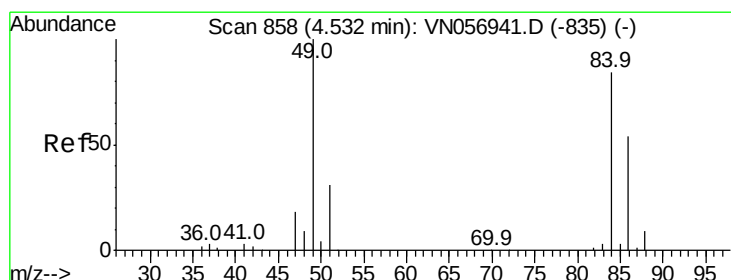
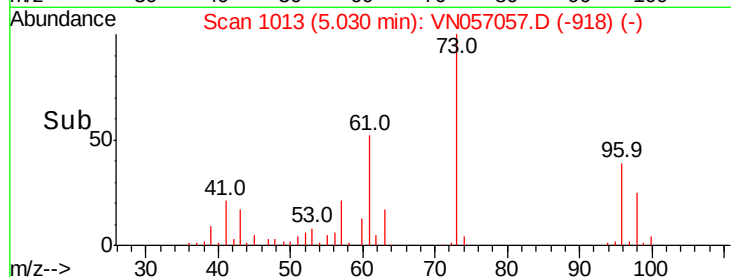
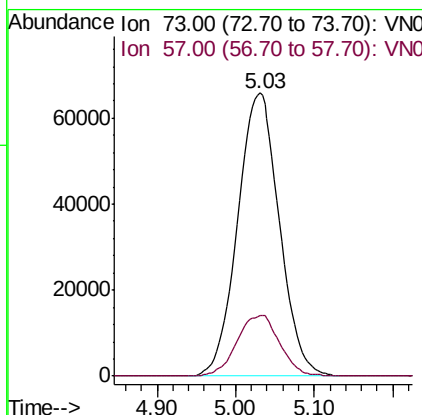
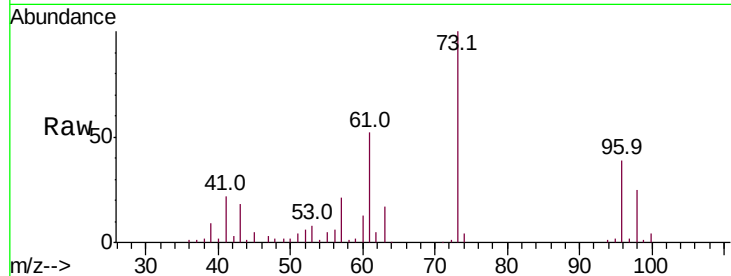
#19
Methyl tert-butyl Ether
Concen: 20.647 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. 0.01 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN0802WBS01

Tot Ion: 73 Resp: 245524
Ion Ratio Lower Upper
73 100
57 21.4 18.3 27.5

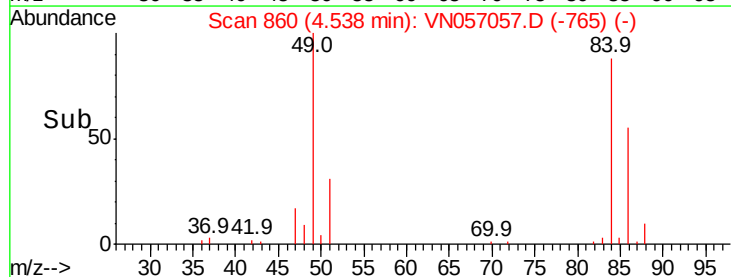
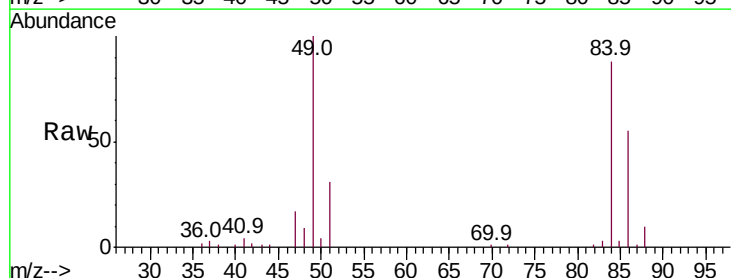
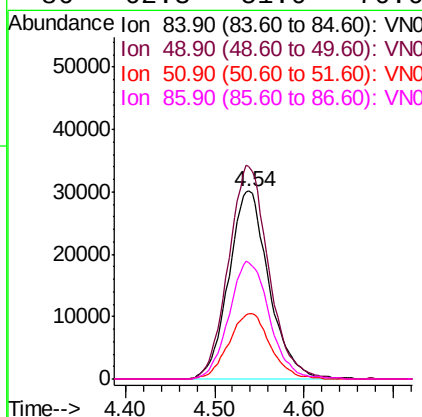
Manual Integrations
APPROVED

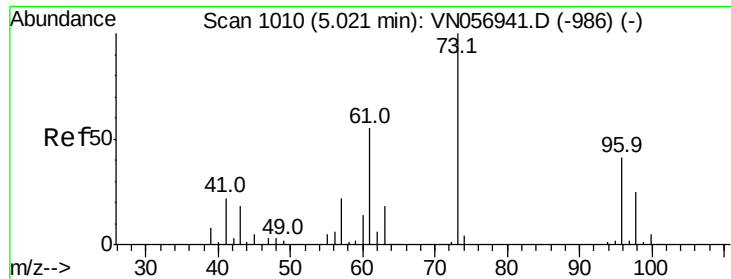
MMDadoda
8/6/2019 2:16:45 PM



#20
Methylene Chloride
Concen: 19.424 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion: 84 Resp: 94141
Ion Ratio Lower Upper
84 100
49 113.0 95.2 142.8
51 34.9 29.7 44.5
86 62.3 51.0 76.6





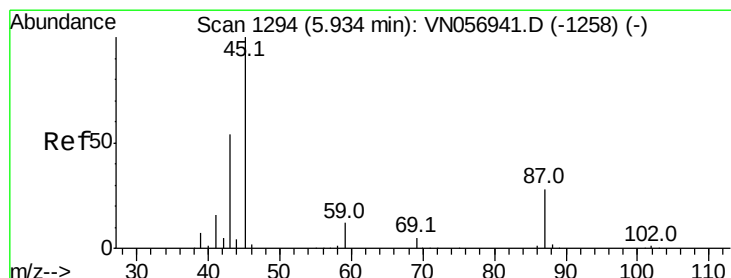
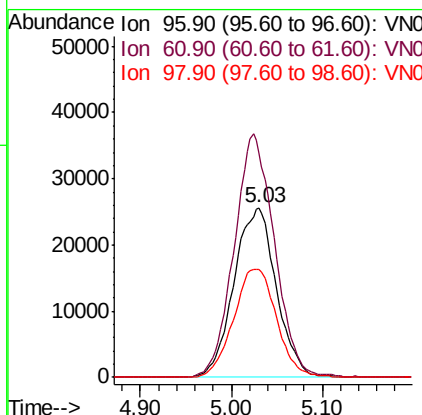
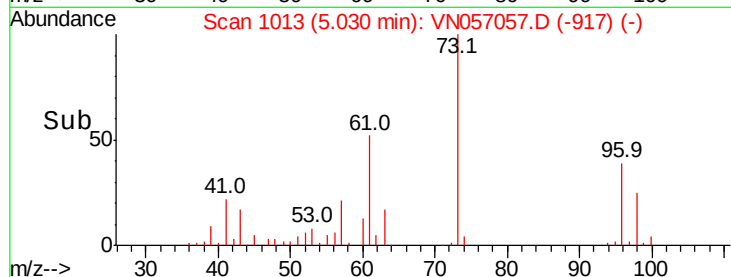
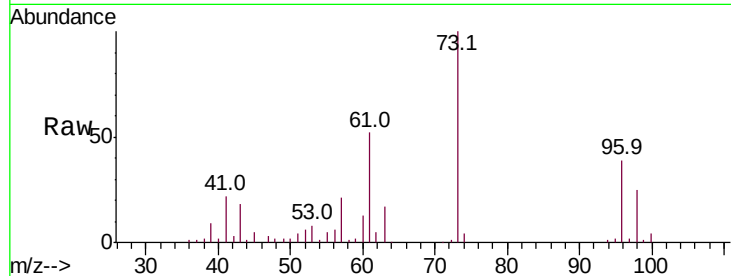
#21
trans-1,2-Dichloroethene
Concen: 19.486 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. 0.01 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN0802WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	132.3	107.5	161.3
98	63.7	49.9	74.9

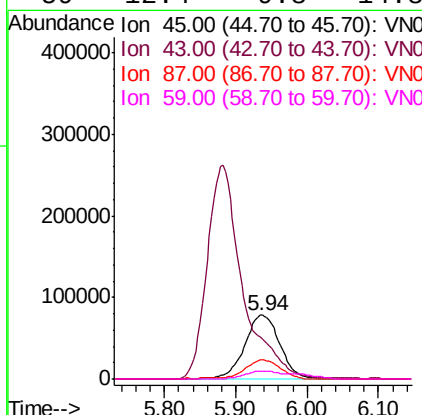
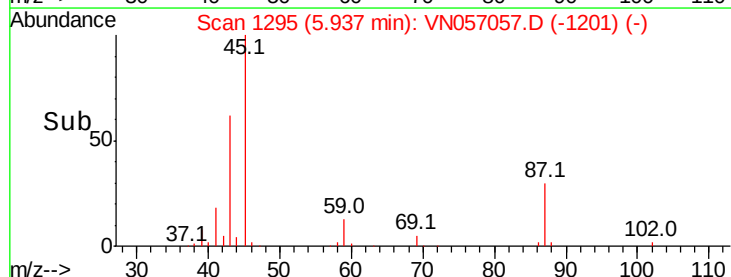
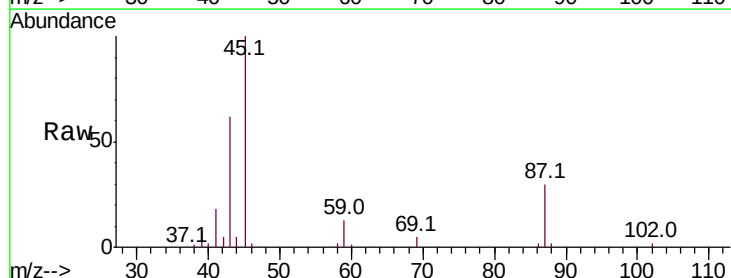
Manual Integrations
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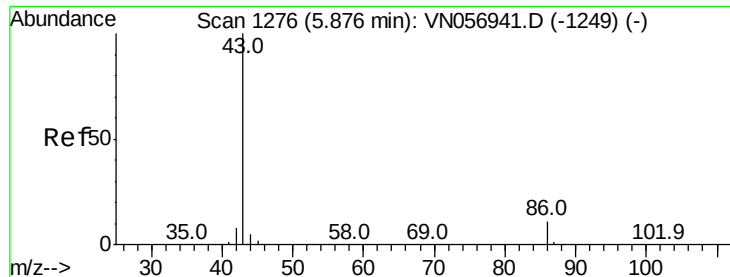
MMDadoda
8/6/2019 2:16:45 PM



#22
Diisopropyl ether
Concen: 20.069 ug/l
RT: 5.94 min Scan# 1295
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Lower	Upper
45	100		
43	61.2	44.7	67.1
87	29.9	23.0	34.6
59	12.4	9.8	14.8





#23

Vinyl Acetate

Concen: 97.553 ug/l

RT: 5.88 min Scan# 1278

Delta R.T. 0.01 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN0802WBS01

Tot Ion: 43 Resp: 903421

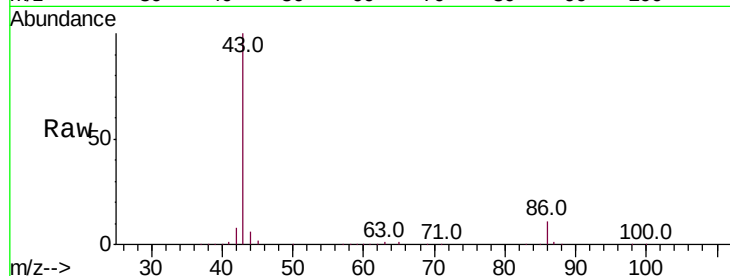
Ion Ratio Lower Upper

43 100

86 11.0 8.5 12.7

Manual Integrations
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8/6/2019 2:16:45 PM



Abundance Ion 43.00 (42.70 to 43.70): VN056941.D (-1249) (-)

Ion 86.00 (85.70 to 86.70): VN056941.D (-1249) (-)

5.88

300000

250000

200000

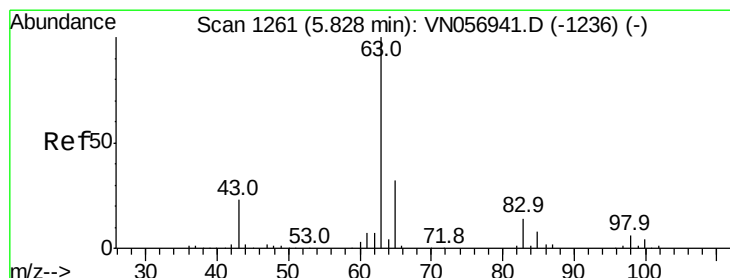
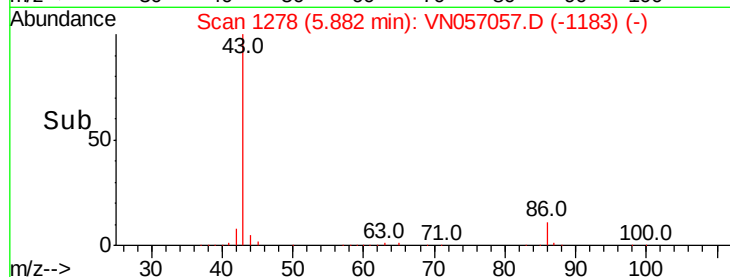
150000

100000

50000

0

Time--> 5.70 5.80 5.90 6.00 6.10



#24

1,1-Dichloroethane

Concen: 19.863 ug/l

RT: 5.83 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

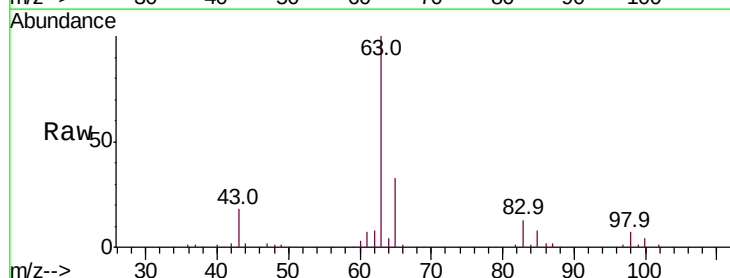
Tgt Ion: 63 Resp: 156638

Ion Ratio Lower Upper

63 100

98 7.0 3.2 9.6

100 4.4 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VN056941.D (-1236) (-)

Ion 97.90 (97.60 to 98.60): VN056941.D (-1236) (-)

Ion 99.90 (99.60 to 100.60): VN056941.D (-1236) (-)

5.83

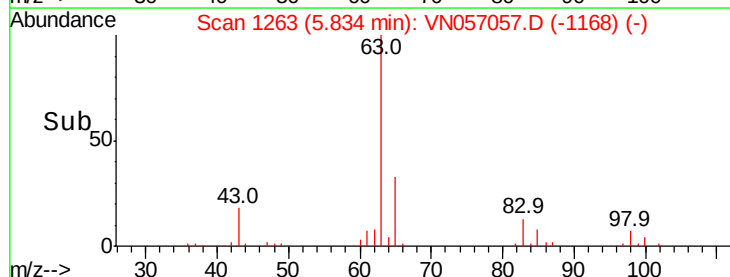
60000

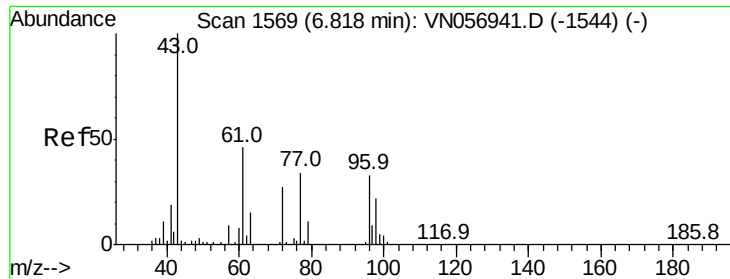
40000

20000

0

Time--> 5.70 5.80 5.90





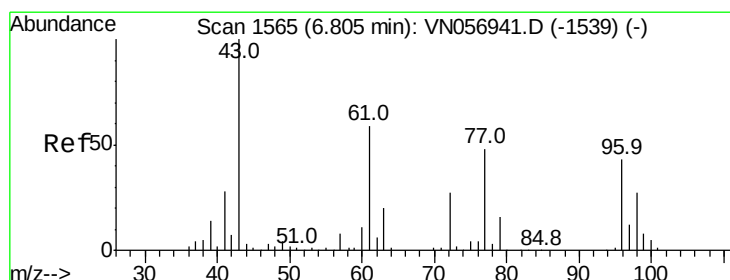
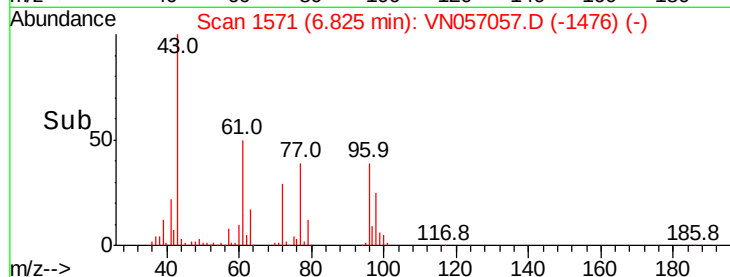
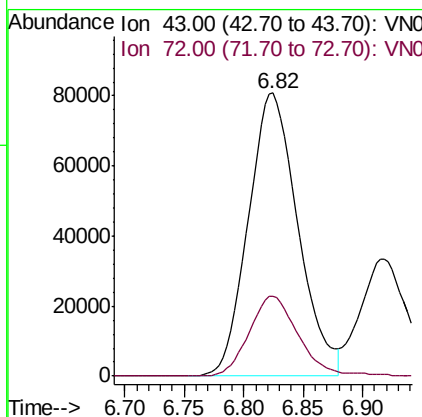
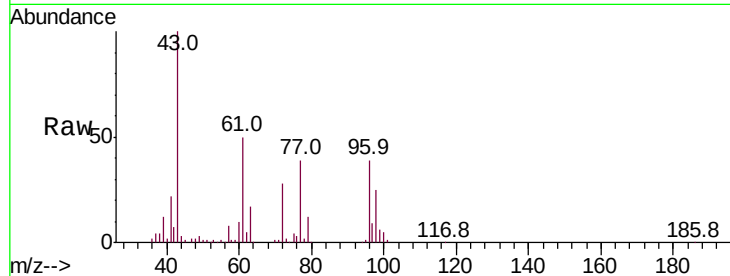
#25
2-Butanone
Concen: 97.398 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN0802WBS01

Tot Ion	43	Ratio	100	Resp	232374
Ion	43	100		Lower	Upper
	72	28.5		21.5	32.3

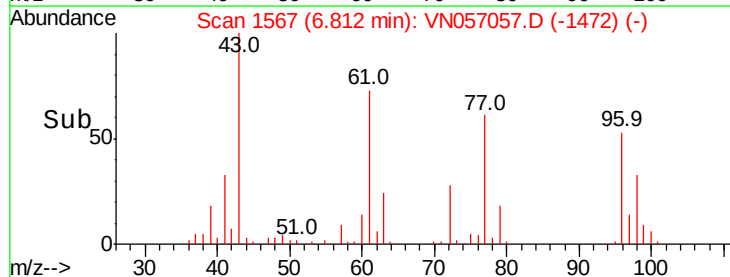
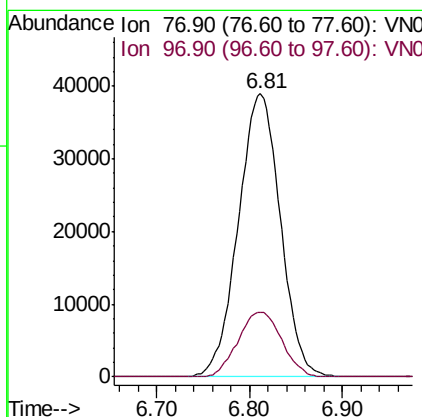
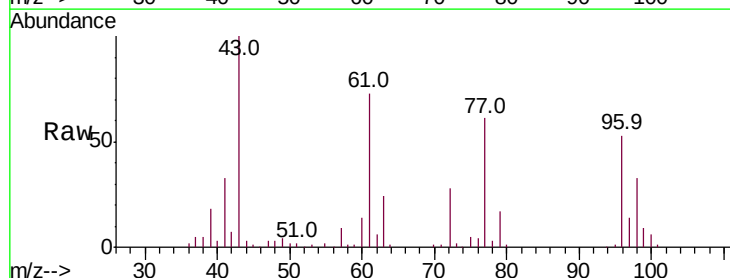
Manual Integrations
APPROVED

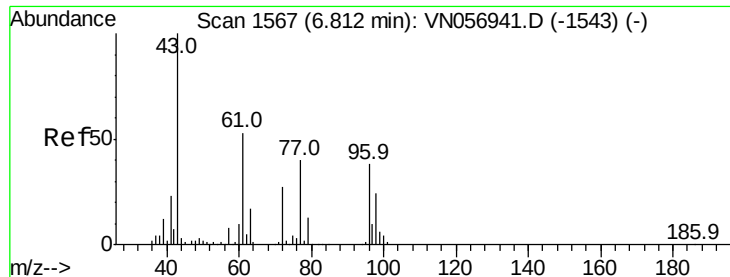
MMDadoda
8/6/2019 2:16:45 PM



#26
2,2-Dichloropropane
Concen: 20.449 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion	77	Ratio	100	Resp	122620
Ion	77	100		Lower	Upper
	97	23.7		12.2	36.6





#27

cis-1,2-Dichloroethene

Concen: 19.867 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

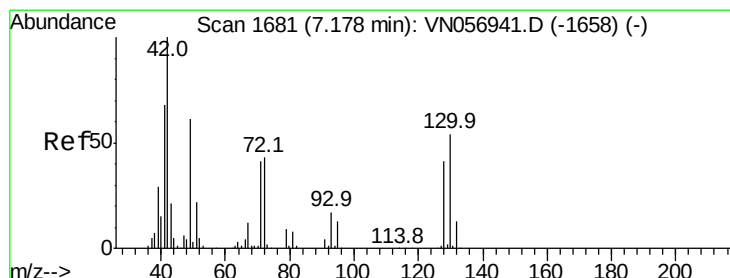
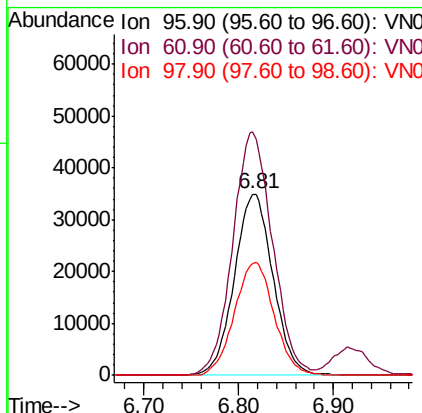
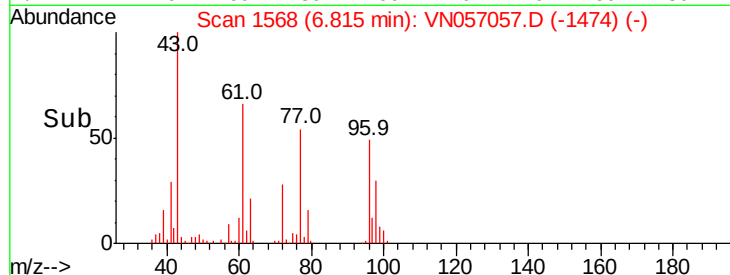
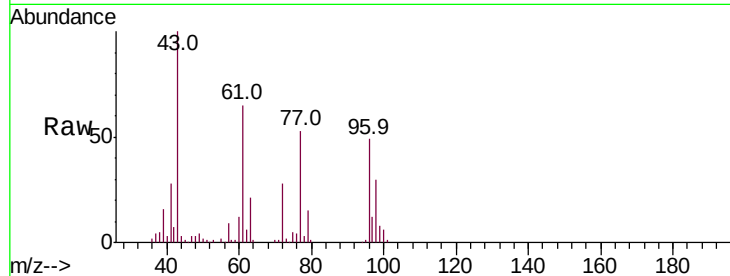
ClientSampleId :

VN0802WBS01

Tot Ion:	96	Resp:	99523
Ion	Ratio	Lower	Upper
96	100		
61	137.7	0.0	277.2
98	63.7	0.0	128.4

Manual Integrations
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MMDadoda
8/6/2019 2:16:45 PM



#28

Bromochloromethane

Concen: 20.692 ug/l

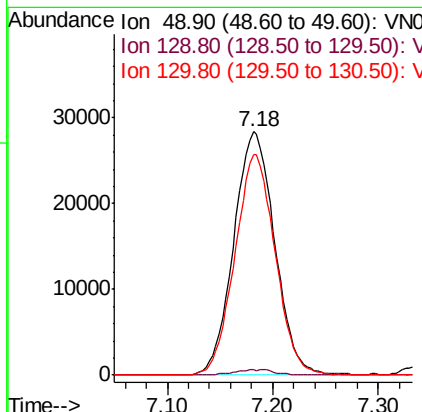
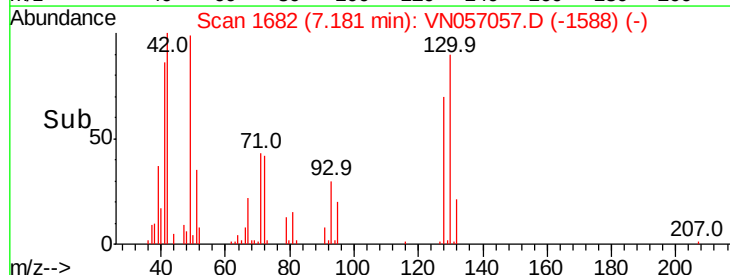
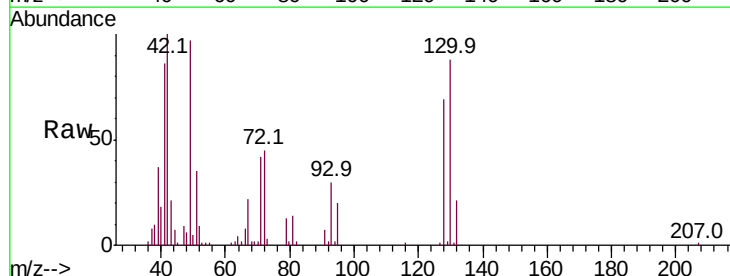
RT: 7.18 min Scan# 1682

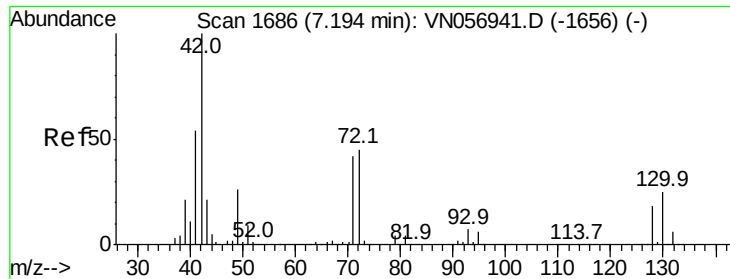
Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Tgt Ion:	49	Resp:	76701
Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	4.6
130	89.0	69.0	103.4





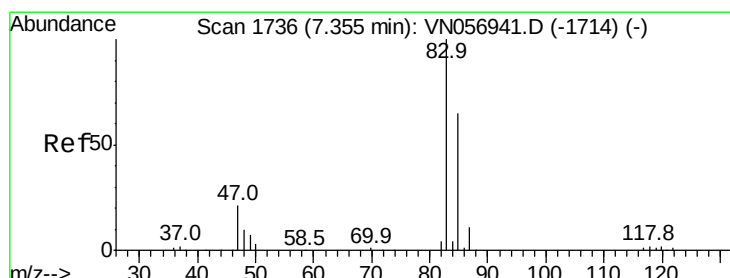
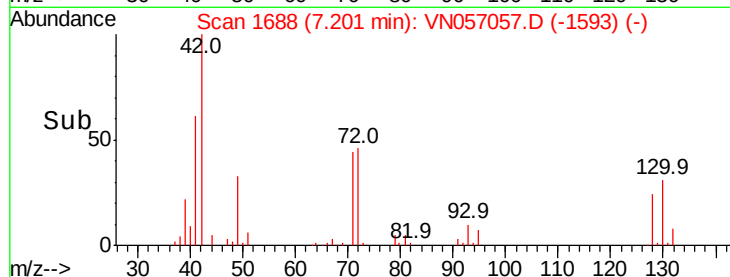
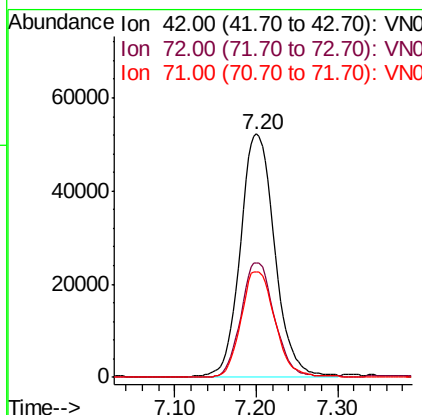
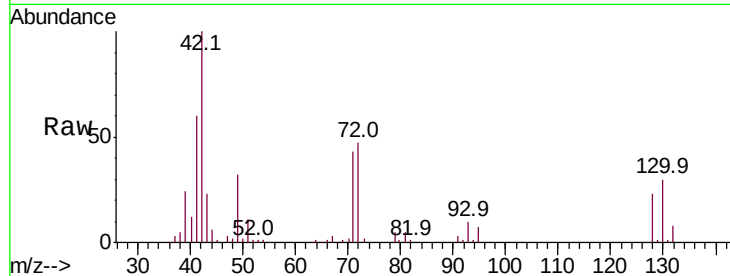
#29
Tetrahydrofuran
Concen: 96.813 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN0802WBS01

Tot Ion:	42	Resp:	150701
Ion Ratio	Lower	Upper	
42	100		
72	46.1	35.6	53.4
71	43.2	33.5	50.3

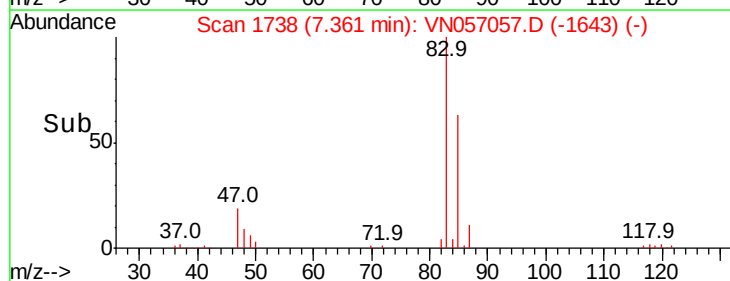
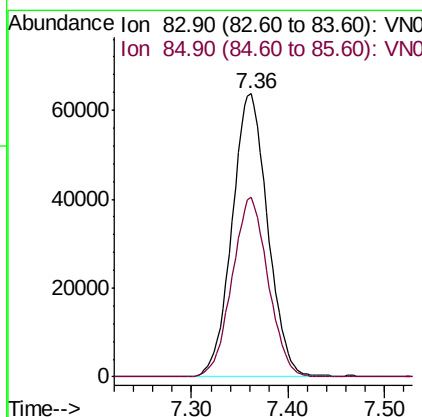
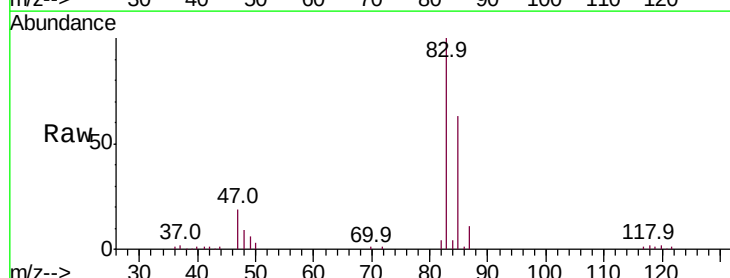
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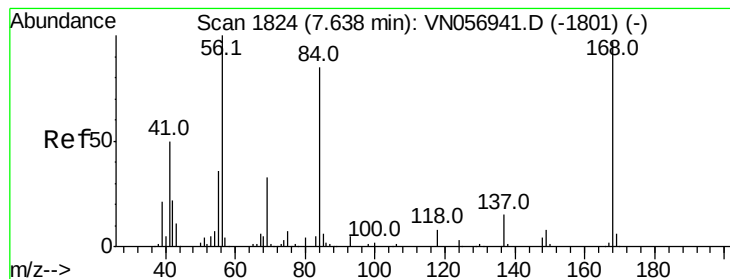
MMDadoda
8/6/2019 2:16:45 PM



#30
Chloroform
Concen: 20.226 ug/l
RT: 7.36 min Scan# 1738
Delta R.T. 0.01 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion:	83	Resp:	163086
Ion Ratio	Lower	Upper	
83	100		
85	63.5	52.2	78.2





#31

Cyclohexane

Concen: 18.141 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

ClientSampled :

VN0802WBS01

Tot Ion: 56 Resp: 138436

Ion Ratio Lower Upper

56 100

69 37.5 26.2 39.2

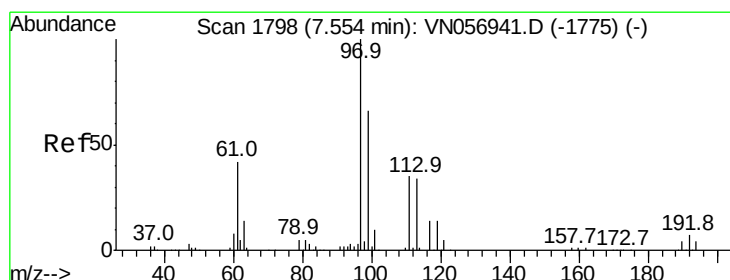
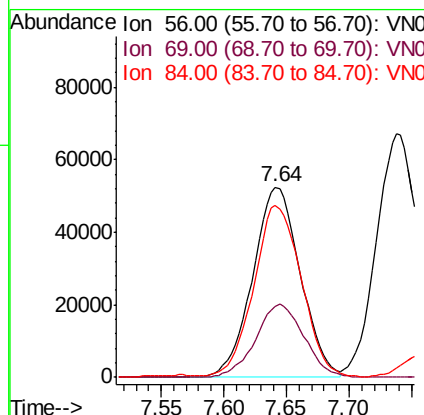
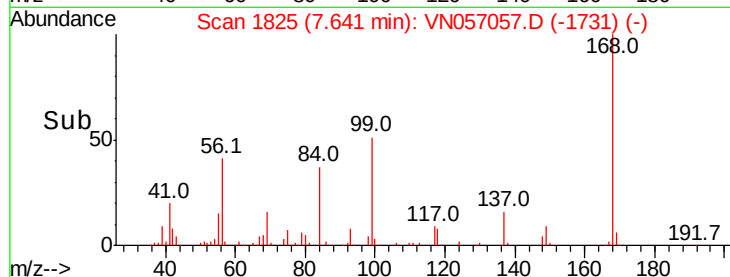
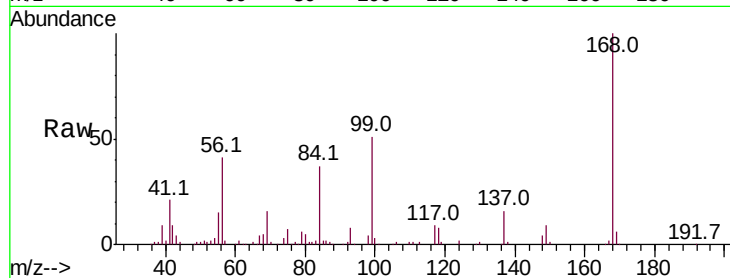
84 89.3 68.2 102.2

Manual Integrations

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8/6/2019 2:16:45 PM



#32

1,1,1-Trichloroethane

Concen: 20.781 ug/l

RT: 7.56 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

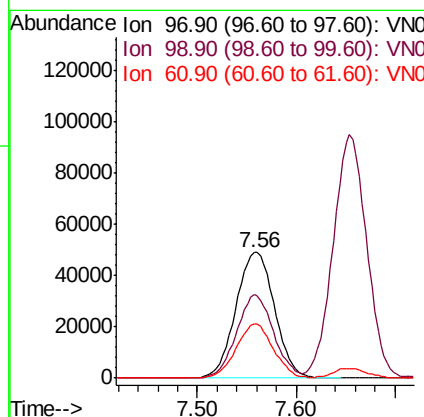
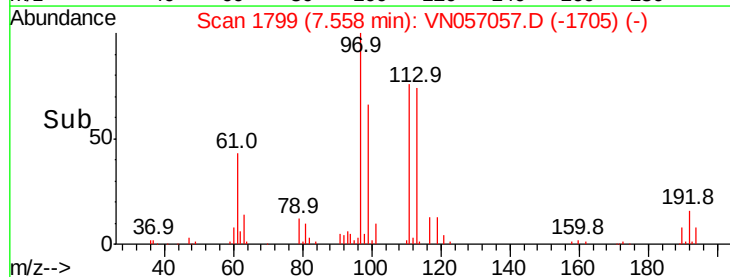
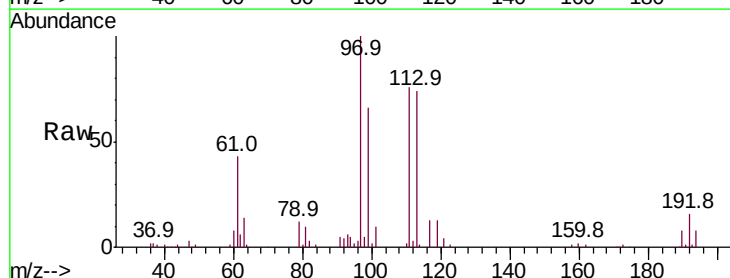
Tgt Ion: 97 Resp: 133691

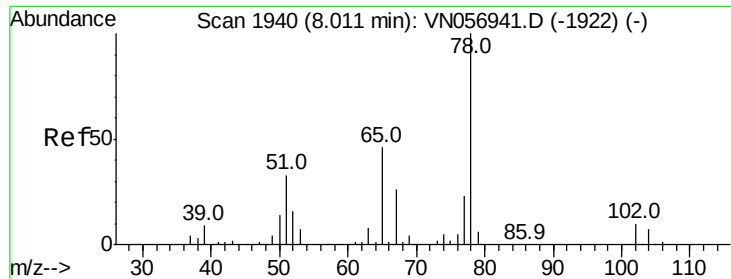
Ion Ratio Lower Upper

97 100

99 63.4 52.3 78.5

61 41.3 33.9 50.9





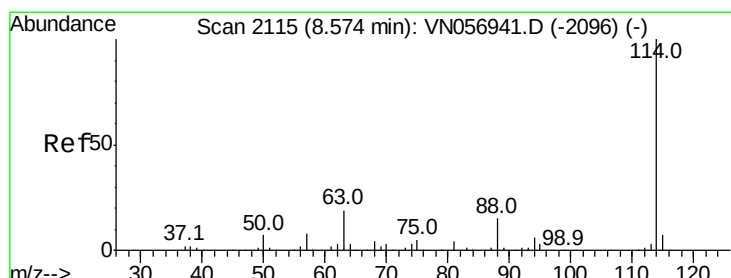
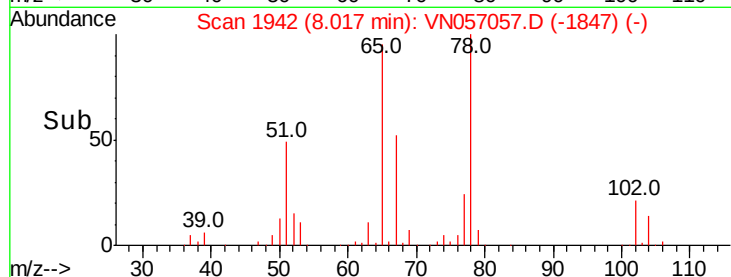
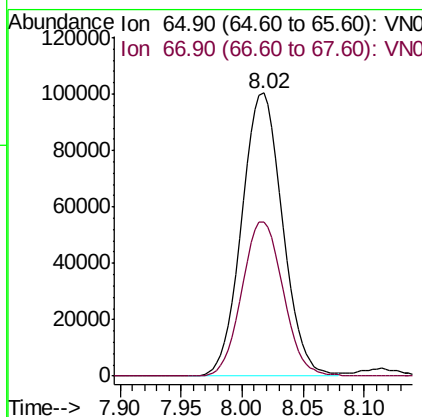
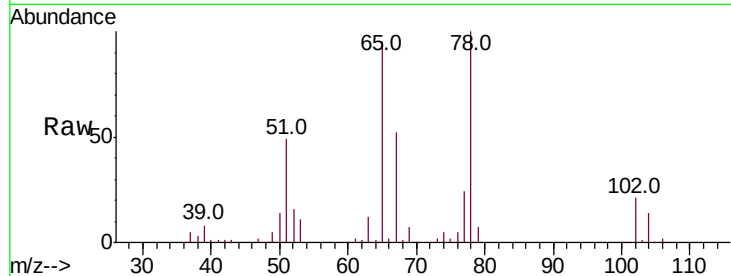
#33
 1,2-Dichloroethane-d4
 Concen: 50.109 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. 0.01 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0802WBS01

Tot Ion: 65 Resp: 232722
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 112.0

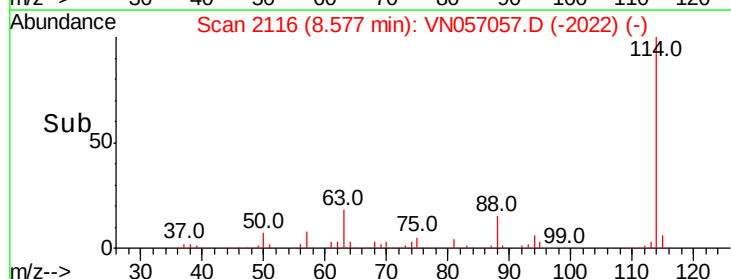
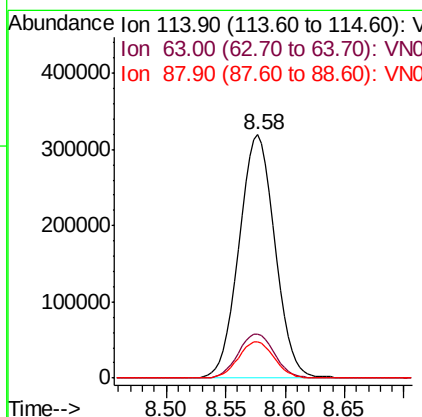
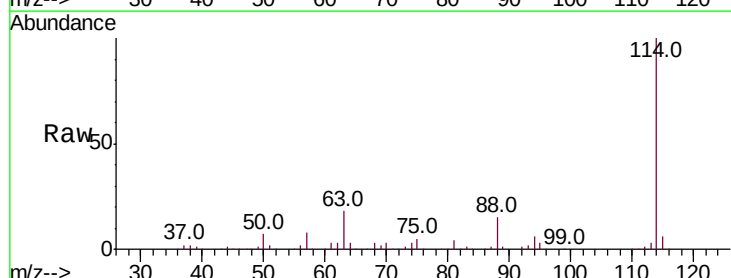
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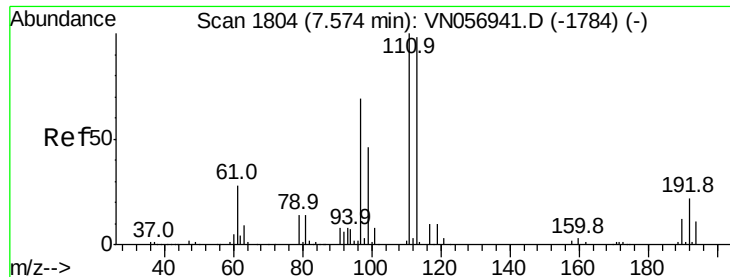
MMDadoda
 8/6/2019 2:16:45 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Tgt Ion: 114 Resp: 667245
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 38.0
 88 14.9 0.0 30.0





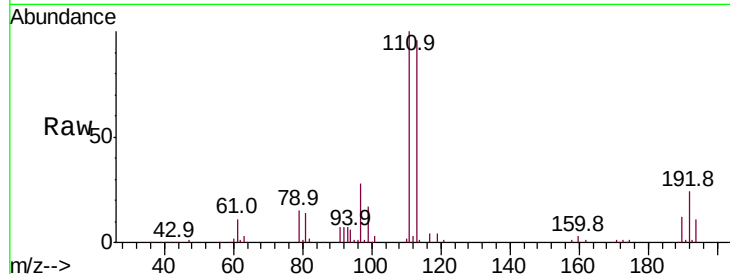
#35
 Dibromofluoromethane
 Concen: 49.717 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. 0.01 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0802WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	212367		
111	103.0	82.0	123.0	
192	23.7	18.4	27.6	

Manual Integrations
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 8/6/2019 2:16:45 PM

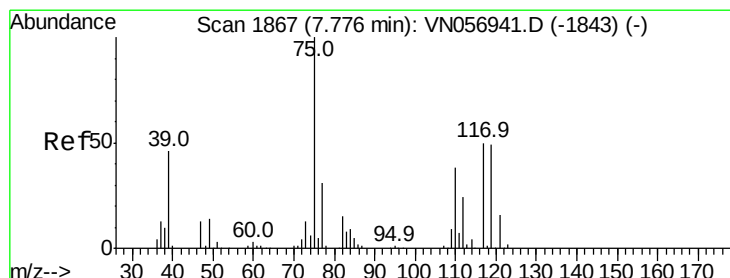
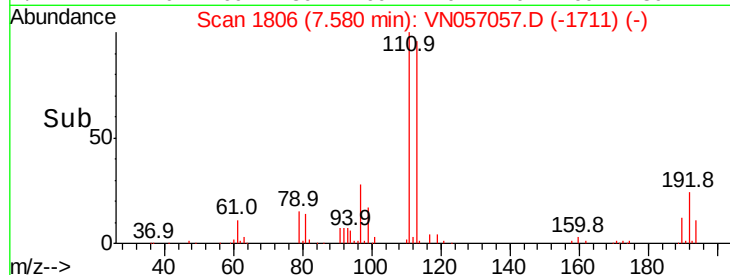
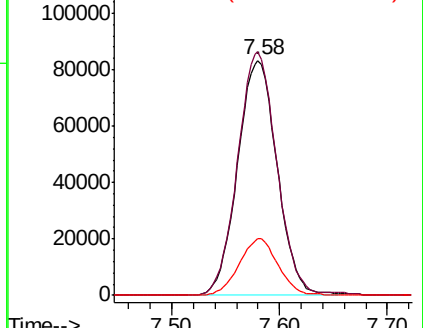


Abundance

Ion 112.80 (112.50 to 113.50): V

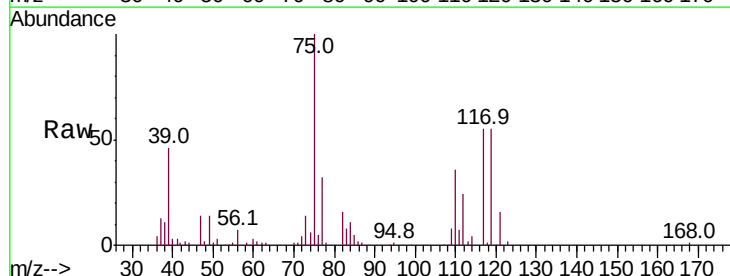
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 19.544 ug/l
 RT: 7.78 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	114746		
110	36.3	18.6	55.8	
77	31.4	25.2	37.8	

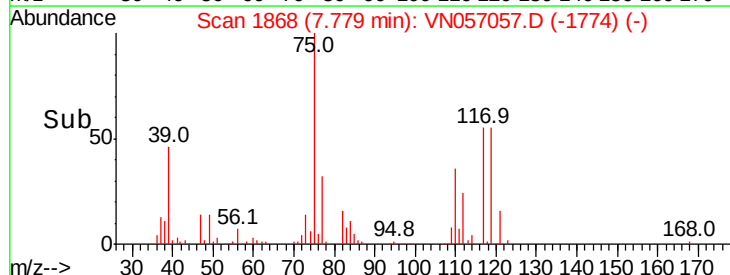
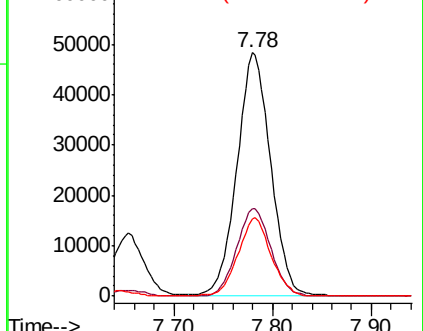


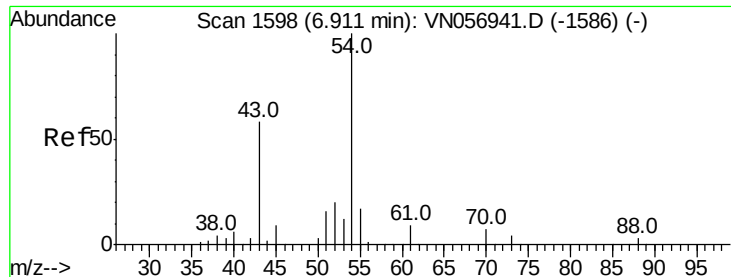
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





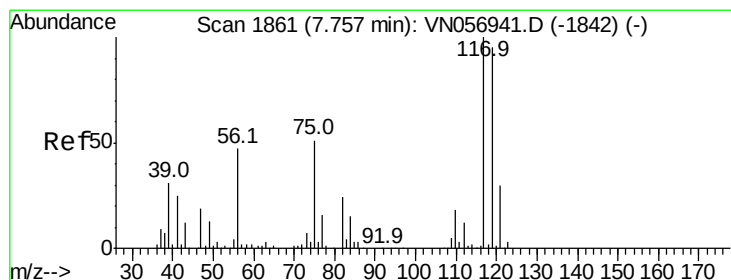
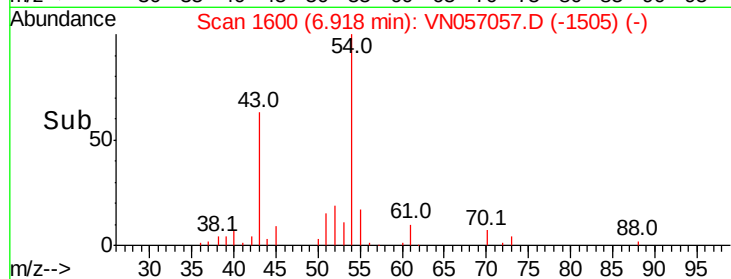
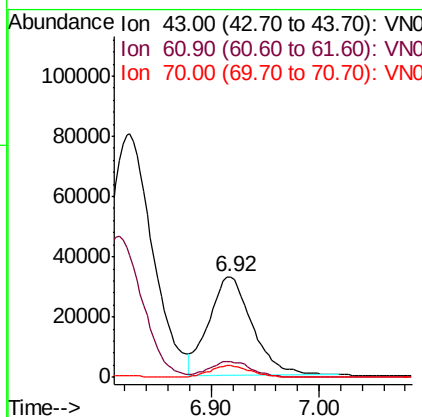
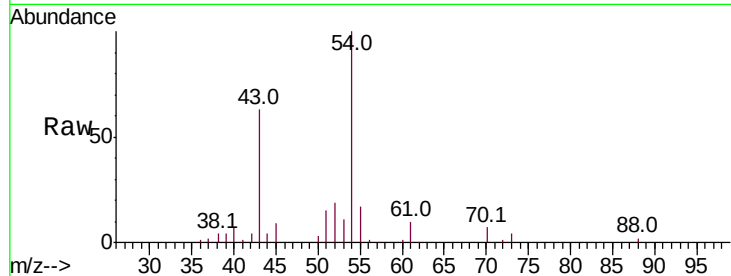
#37
Ethyl Acetate
Concen: 19.561 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN0802WBS01

Tot Ion	43	61	70
Ion Ratio	100	14.7	11.1
Lower		11.8	8.5
Upper		17.6	12.7

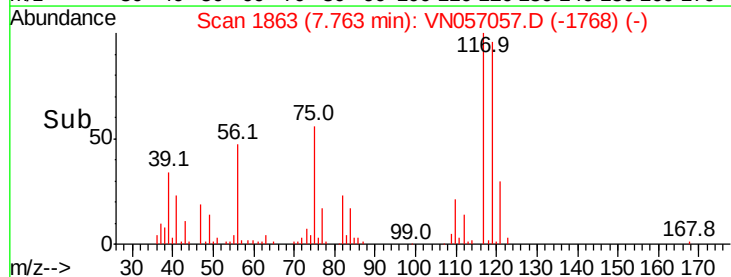
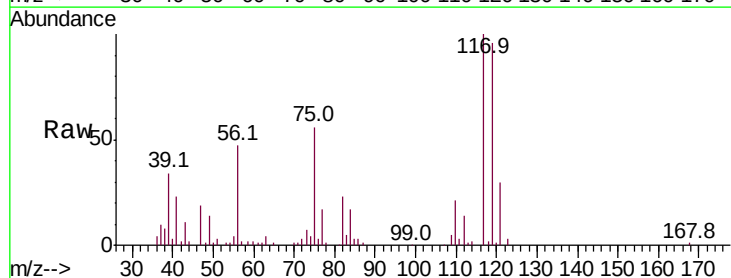
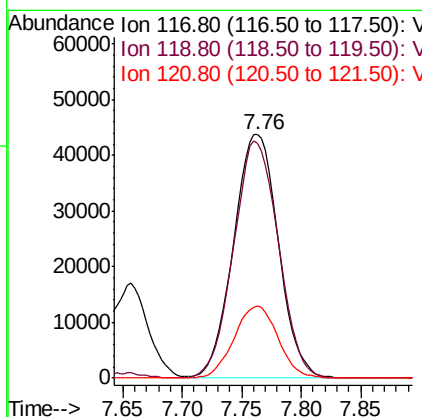
Manual Integrations
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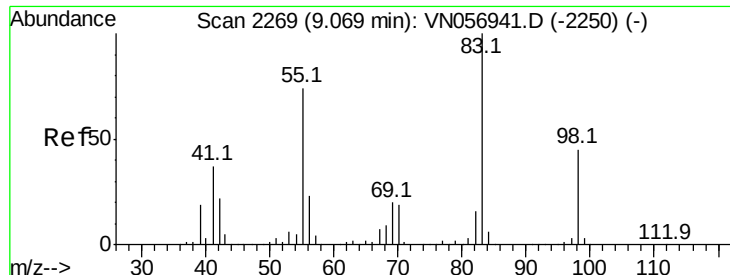
MMDadoda
8/6/2019 2:16:45 PM



#38
Carbon Tetrachloride
Concen: 20.578 ug/l
RT: 7.76 min Scan# 1863
Delta R.T. 0.01 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion	117	119	121
Ion Ratio	100	96.4	29.7
Lower		75.3	24.2
Upper		112.9	36.4





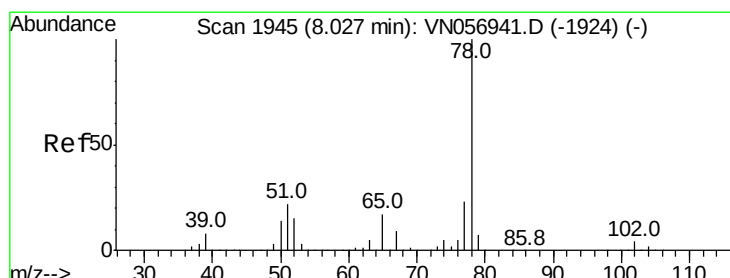
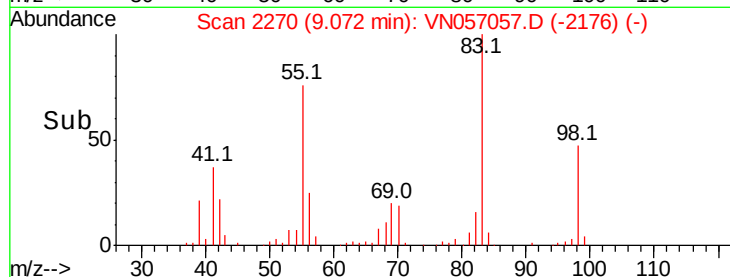
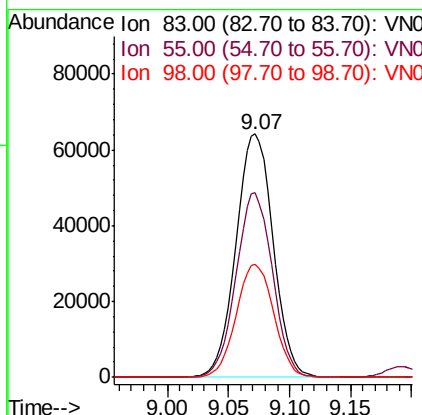
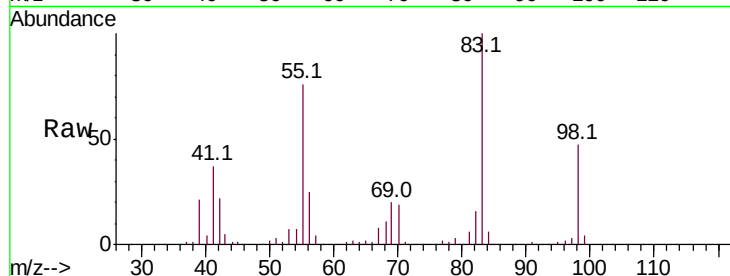
#39
Methylvlcyclohexane
Concen: 18.075 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN0802WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.1	59.0	88.6
98	46.6	36.2	54.4

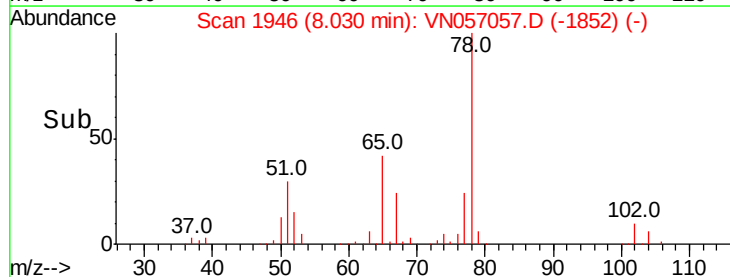
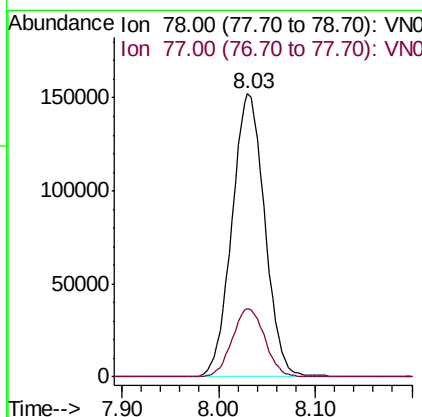
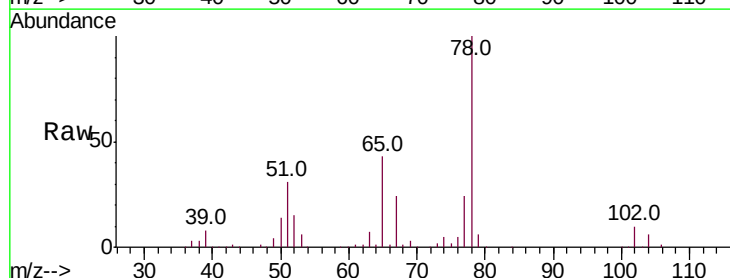
Manual Integrations
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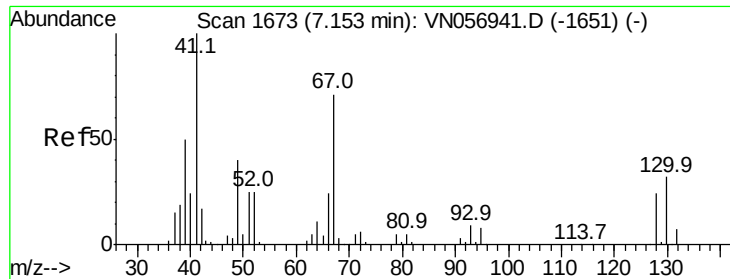
MMDadoda
8/6/2019 2:16:45 PM



#40
Benzene
Concen: 19.833 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.3	27.5





#41

Methacrylonitrile

Concen: 26.147 ug/l m

RT: 7.18 min Scan# 1681

Delta R.T. 0.03 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN0802WBS01

Tot Ion: 41 Resp: 56841

Ion Ratio Lower Upper

41 100

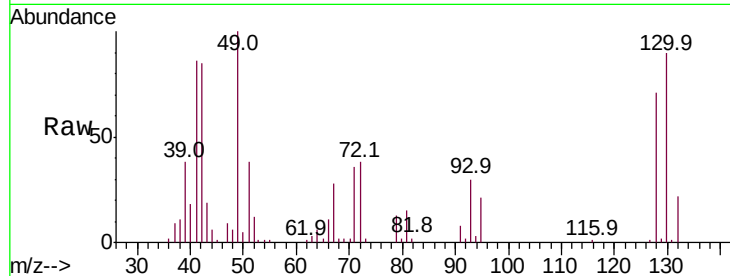
39 0.0 48.9 73.3#

67 0.0 83.4 125.0#

52 0.0 30.9 46.3#

Manual Integrations
APPROVED

MMDadoda
8/6/2019 2:16:45 PM



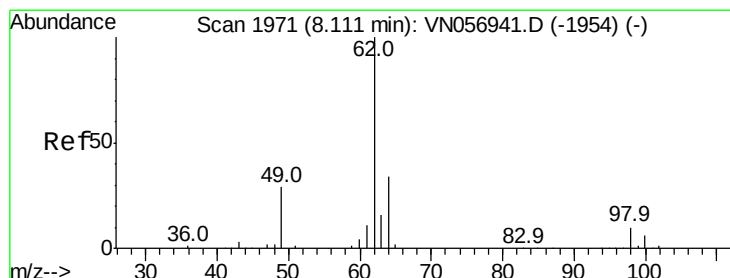
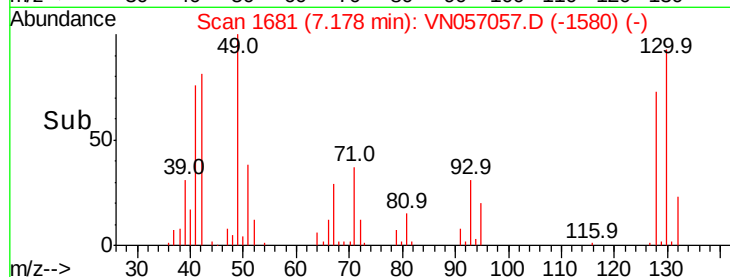
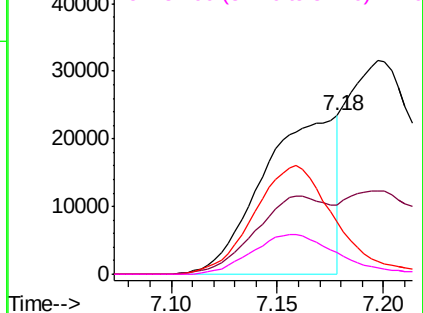
Abundance

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



#42

1,2-Dichloroethane

Concen: 20.675 ug/l

RT: 8.11 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VN057057.D

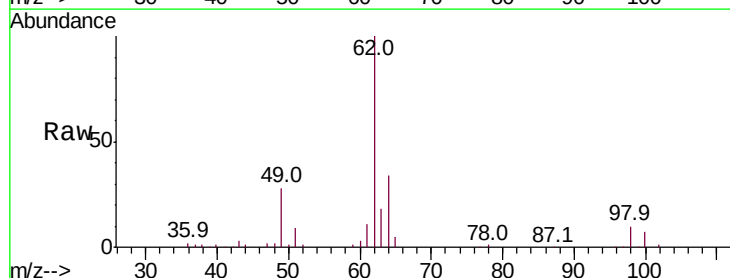
Acq: 2 Aug 2019 11:36

Tgt Ion: 62 Resp: 117176

Ion Ratio Lower Upper

62 100

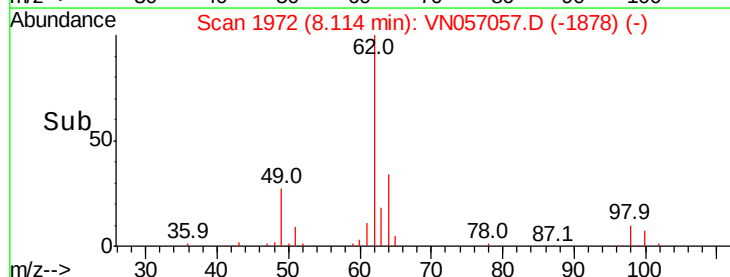
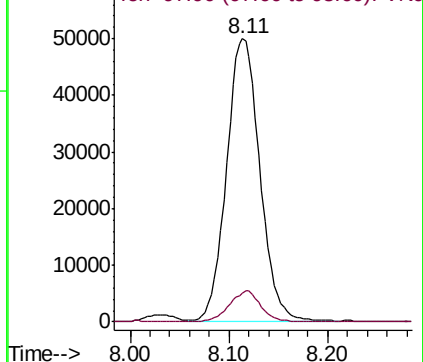
98 10.3 0.0 20.6

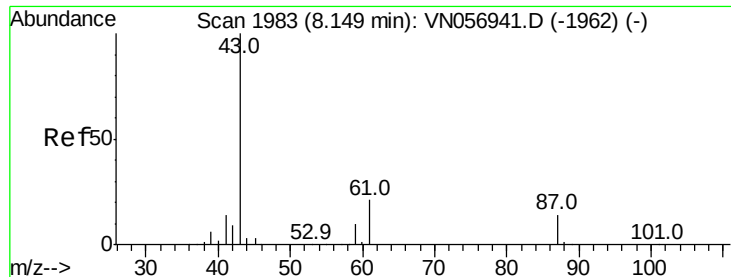


Abundance

Ion 61.90 (61.60 to 62.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





#43

Isopropyl Acetate

Concen: 19.826 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN0802WBS01

Tot Ion: 43 Resp: 154092

Ion Ratio Lower Upper

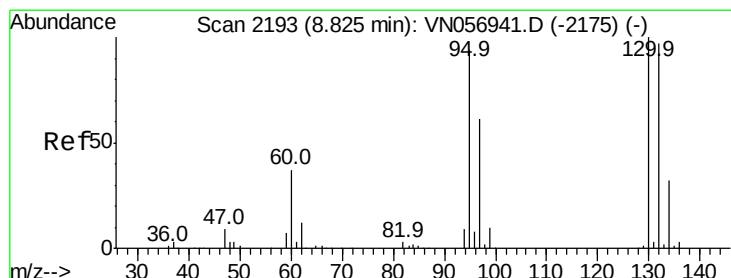
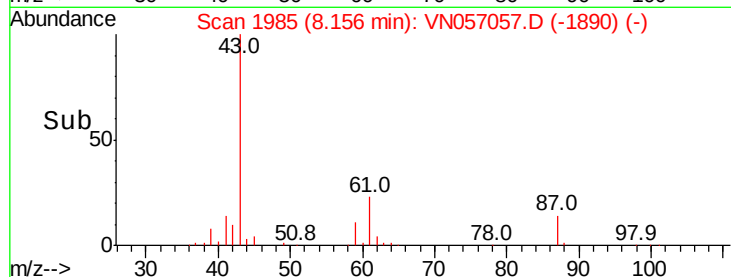
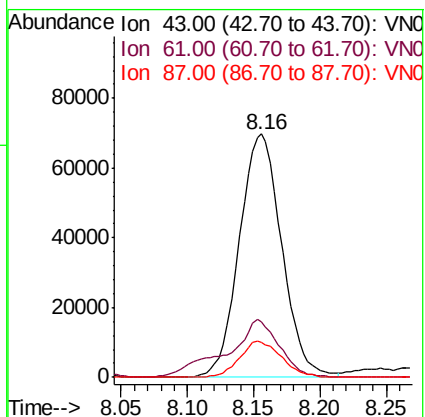
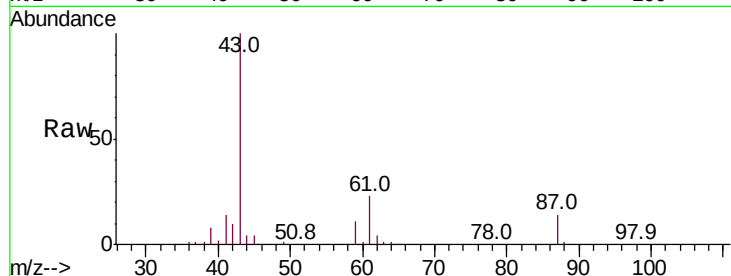
43 100

61 29.8 23.0 34.6

87 14.9 11.7 17.5

Manual Integrations
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8/6/2019 2:16:45 PM



#44

Trichloroethene

Concen: 20.173 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN057057.D

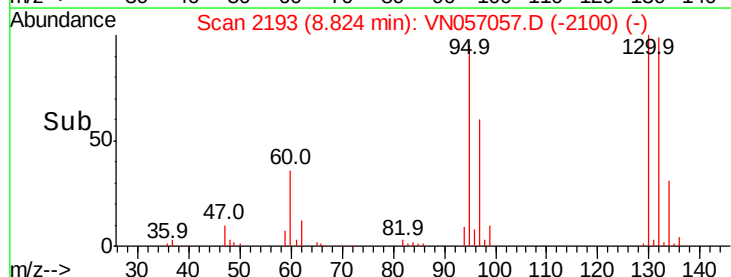
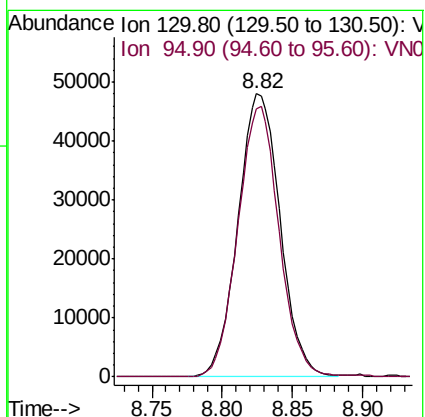
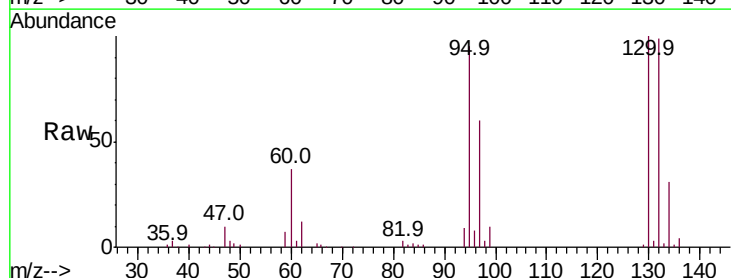
Acq: 2 Aug 2019 11:36

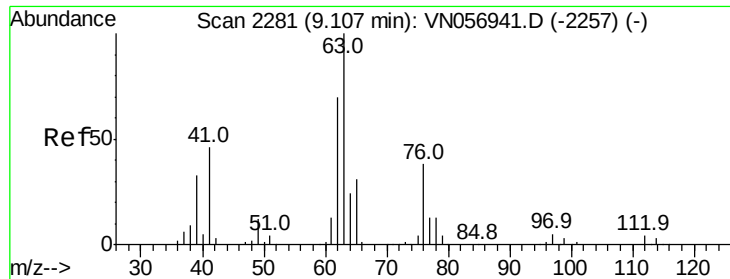
Tgt Ion:130 Resp: 100503

Ion Ratio Lower Upper

130 100

95 94.7 0.0 189.0





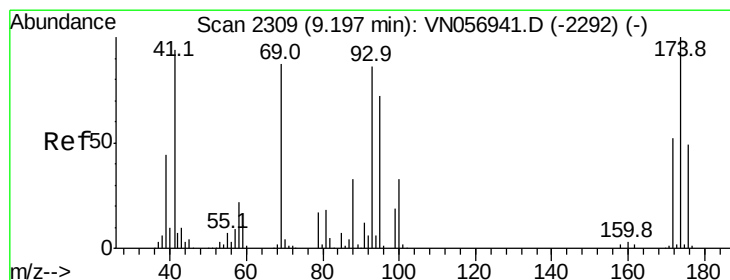
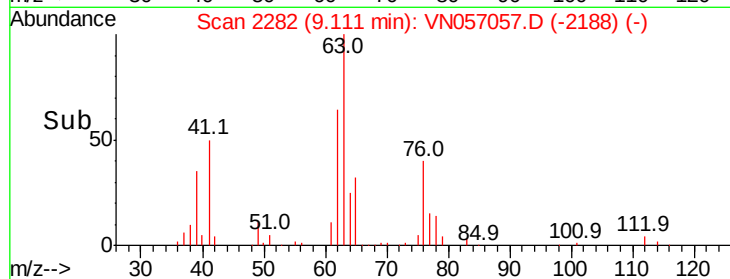
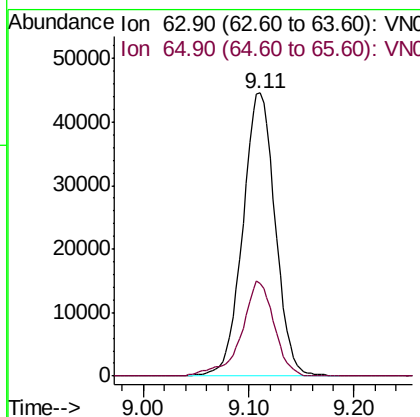
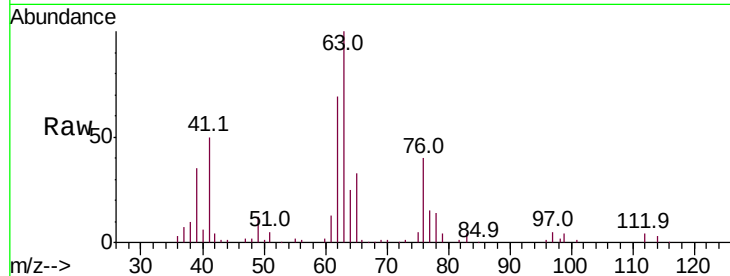
#45
 1,2-Dichloropropane
 Concen: 19.710 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. 0.00 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Instrument :
 MSVOA_N
 ClientSampled :
 VN0802WBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.9	24.8	37.2

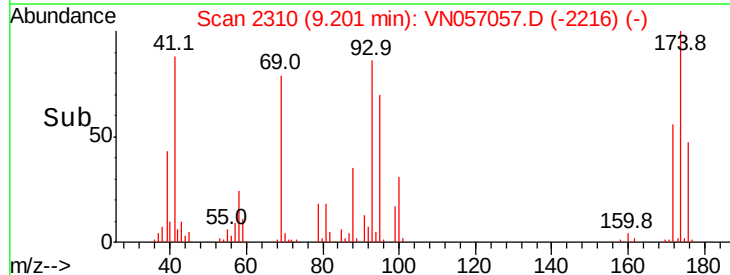
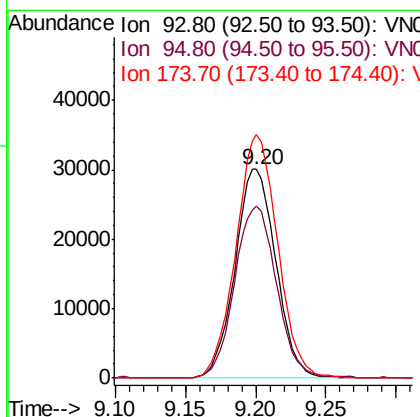
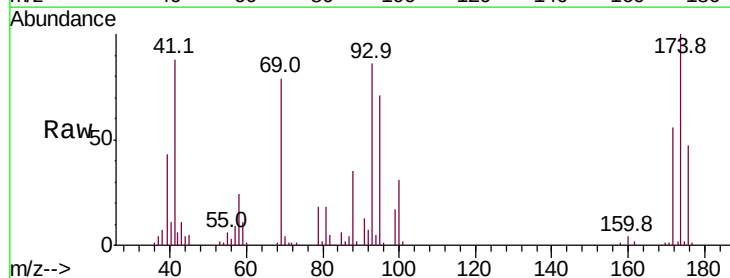
Manual Integrations
 APPROVED

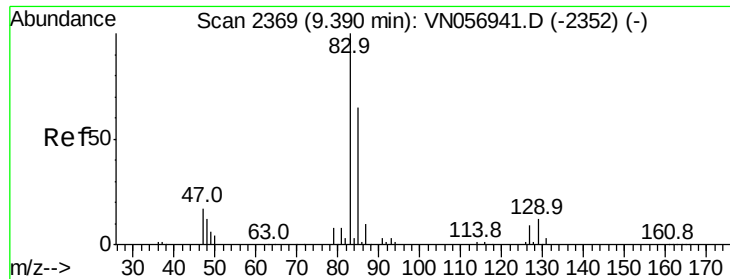
MMDadoda
 8/6/2019 2:16:45 PM



#46
 Dibromomethane
 Concen: 20.898 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.6	67.0	100.6
174	118.9	92.7	139.1





#47

Bromodichloromethane

Concen: 20.377 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

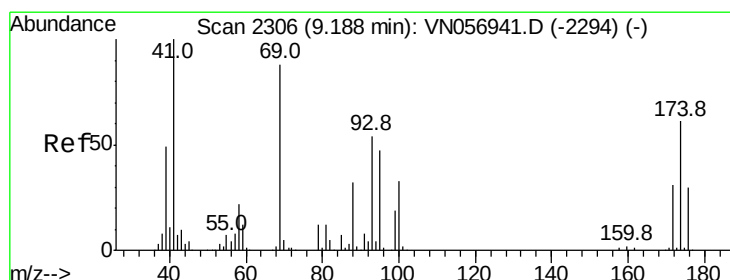
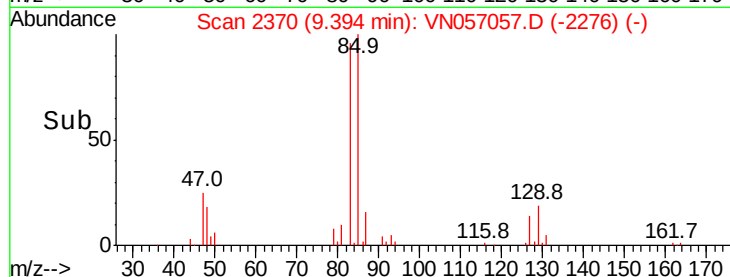
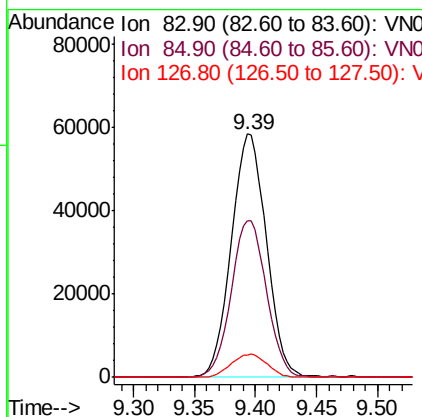
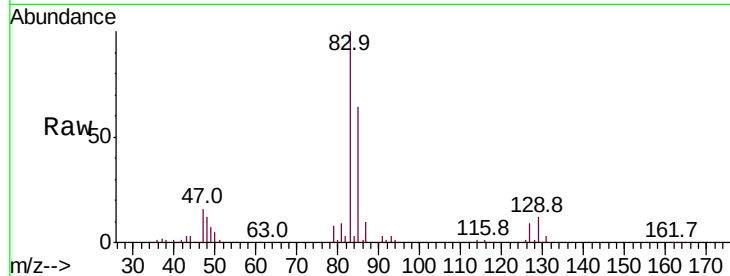
ClientSampleId :

VN0802WBS01

Tot Ion:	83	Resp:	116866
Ion Ratio	Lower	Upper	
83	100		
85	64.4	51.6	77.4
127	9.3	7.3	10.9

Manual Integrations
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#48

Methyl methacrylate

Concen: 19.962 ug/l

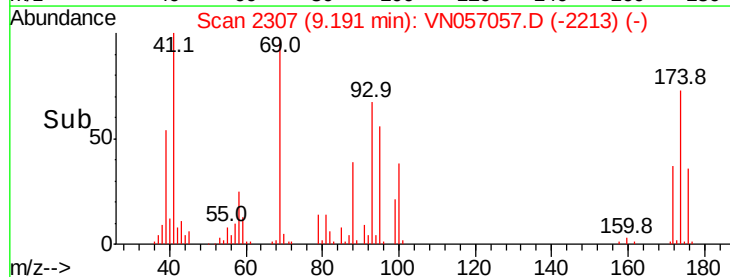
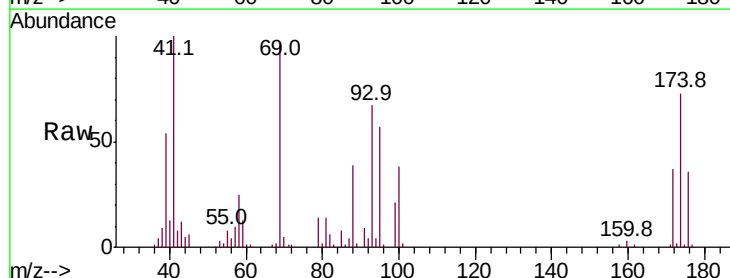
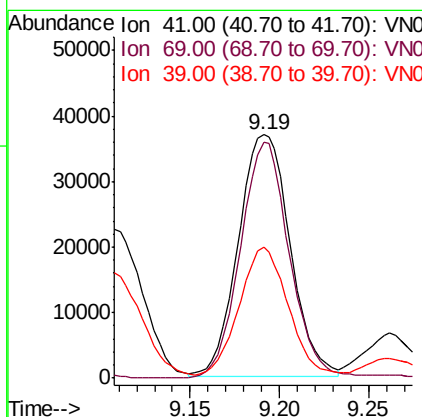
RT: 9.19 min Scan# 2307

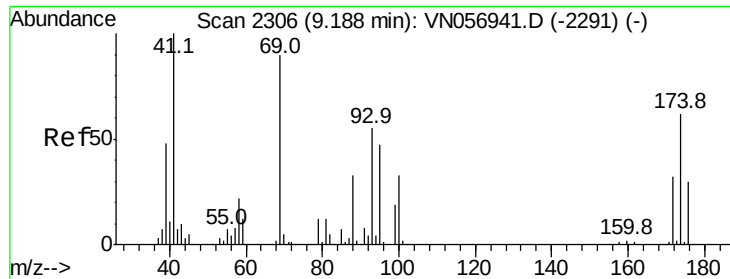
Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Tgt Ion:	41	Resp:	74904
Ion Ratio	Lower	Upper	
41	100		
69	92.7	73.4	110.0
39	52.5	39.9	59.9





#49

1,4-Dioxane

Concen: 422.712 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN0802WBS01

Tot Ion: 88 Resp: 32688

Ion Ratio Lower Upper

88 100

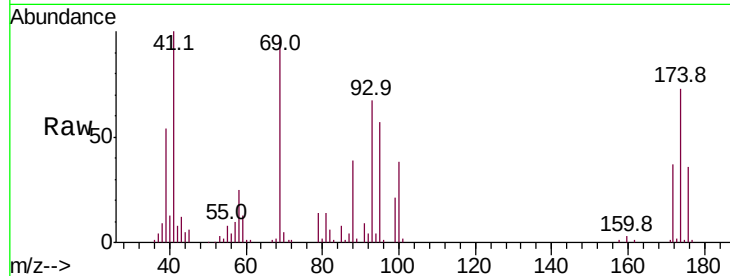
43 29.5 22.2 33.2

58 66.6 54.1 81.1

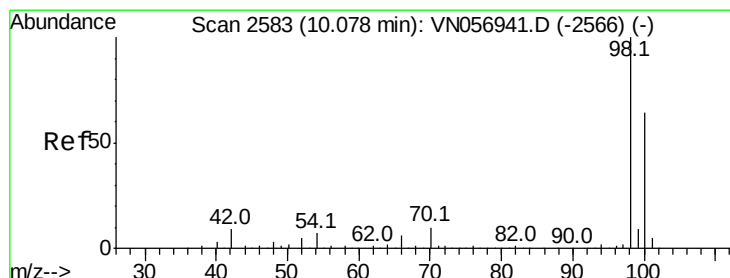
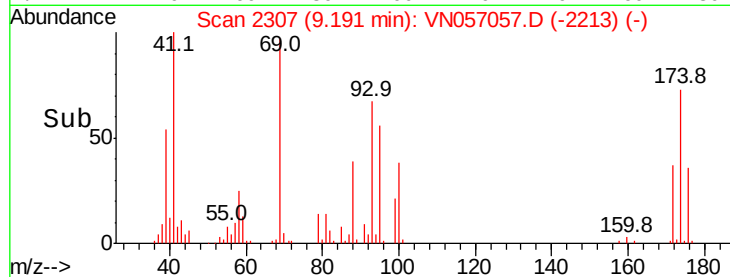
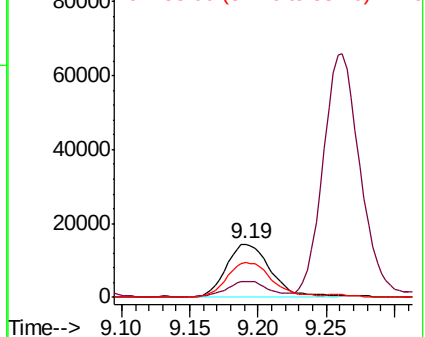
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Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.373 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN057057.D

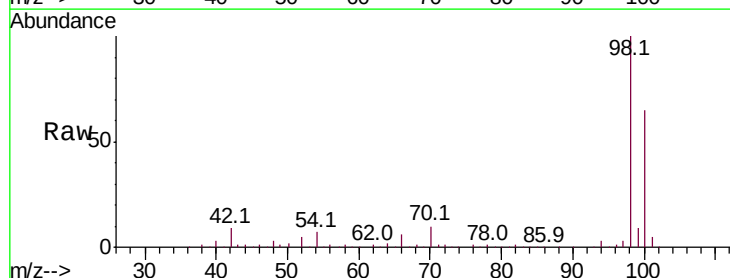
Acq: 2 Aug 2019 11:36

Tgt Ion: 98 Resp: 787953

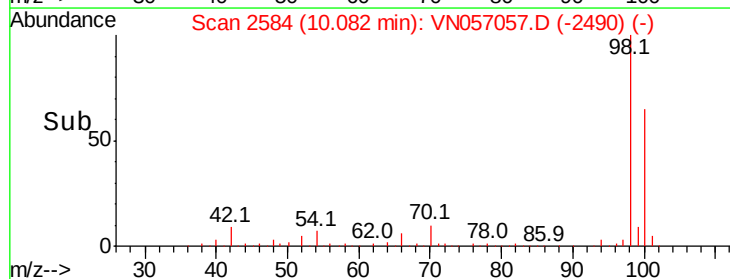
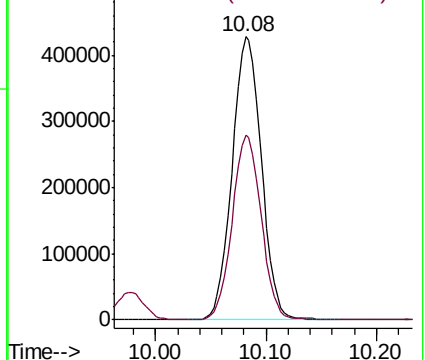
Ion Ratio Lower Upper

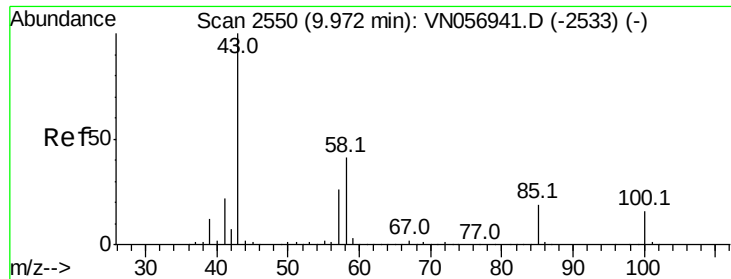
98 100

100 64.5 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 100.165 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN0802WBS01

Tot Ion: 43 Resp: 462561

Ion Ratio Lower Upper

43 100

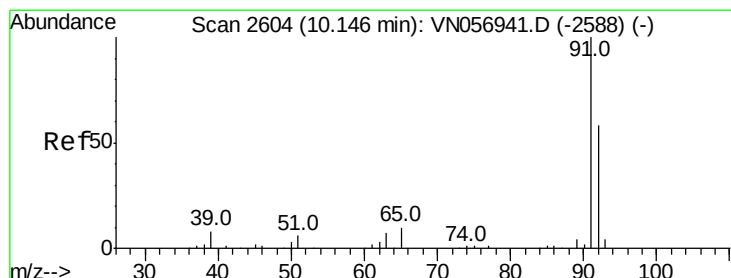
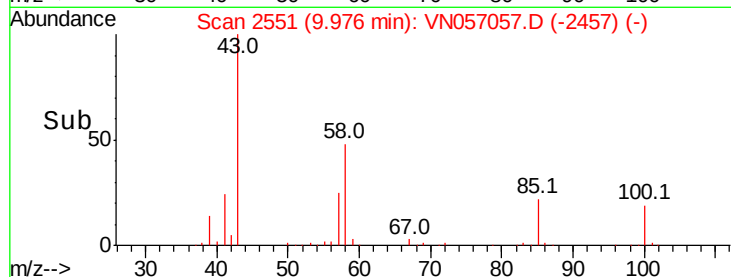
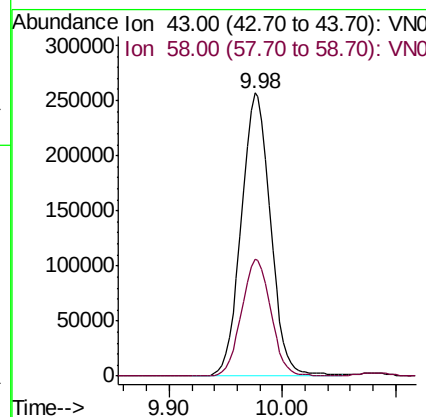
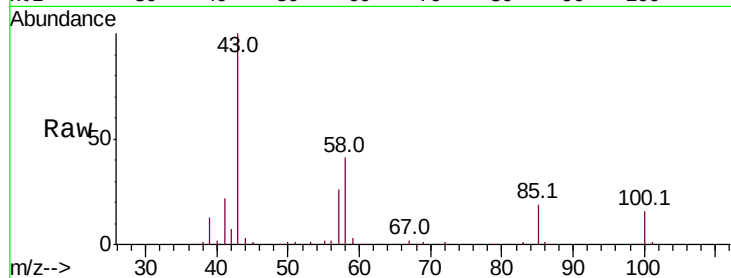
58 41.7 33.1 49.7

Manual Integrations

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#52

Toluene

Concen: 20.391 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN057057.D

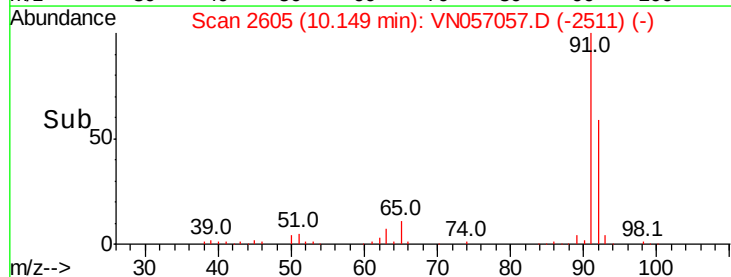
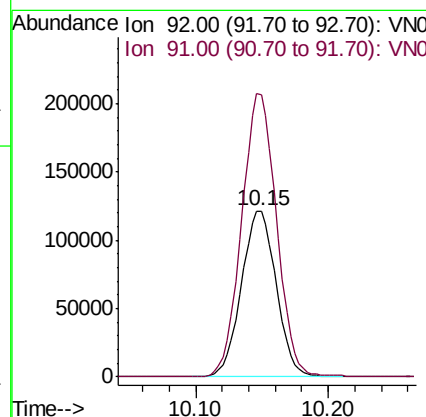
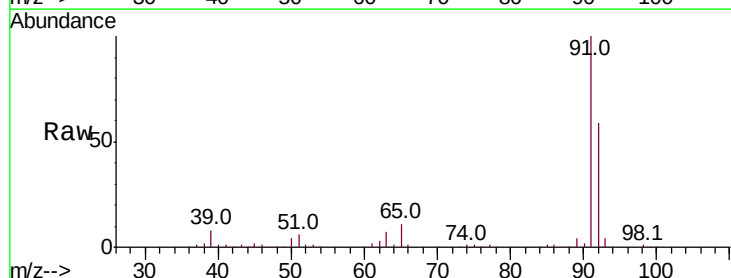
Acq: 2 Aug 2019 11:36

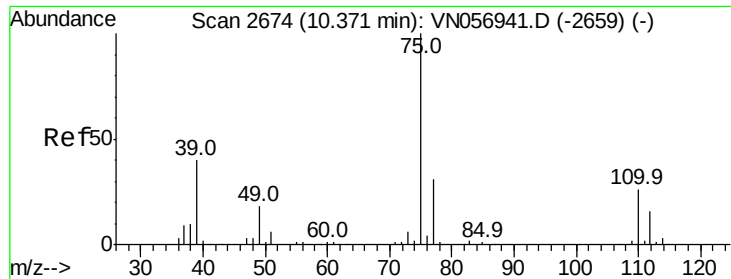
Tgt Ion: 92 Resp: 221548

Ion Ratio Lower Upper

92 100

91 171.3 138.0 207.0





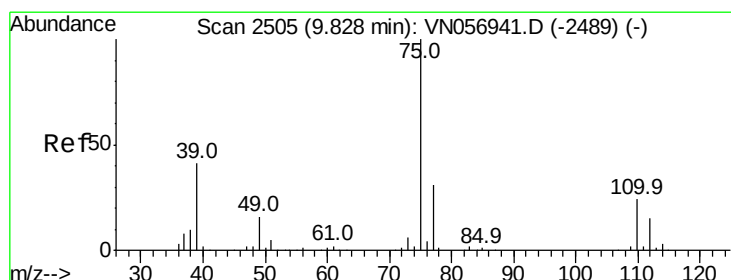
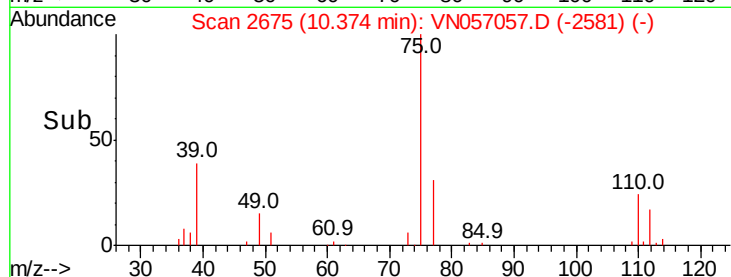
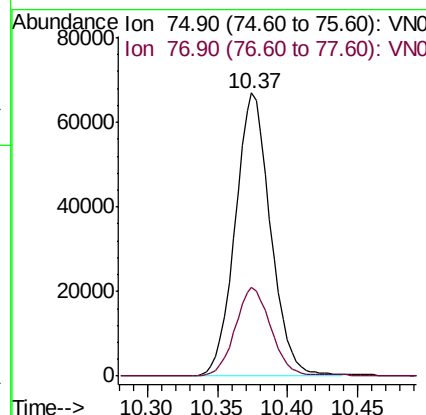
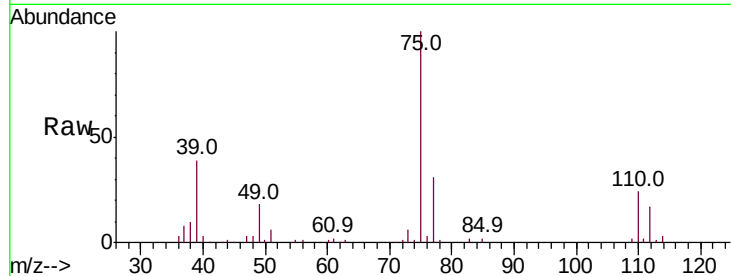
#53
 t-1,3-Dichloropropene
 Concen: 19.745 ug/l
 RT: 10.37 min Scan# 2675
 Delta R.T. 0.00 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0802WBS01

Tot Ion	Ratio	Resp	Lower	Upper
75	100	117511		
77	31.4	25.1	37.7	

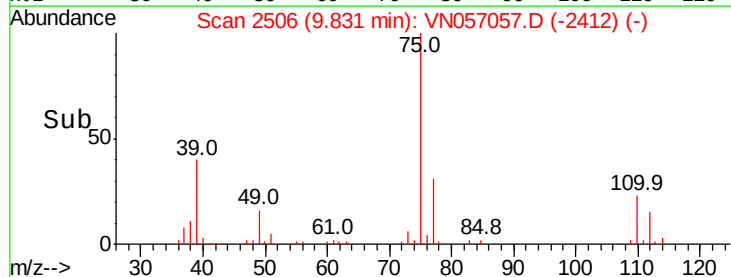
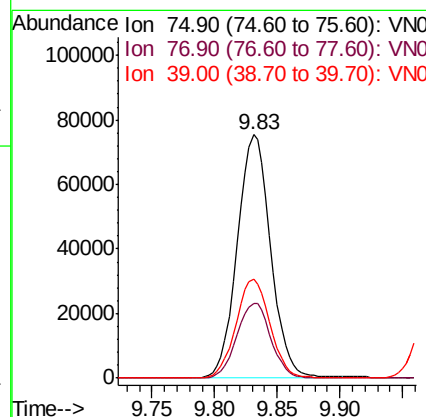
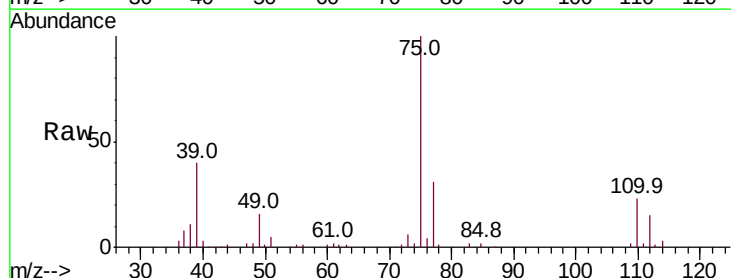
Manual Integrations
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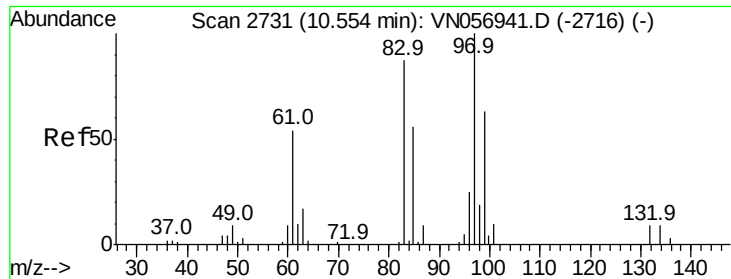
MMDadoda
 8/6/2019 2:16:45 PM



#54
 cis-1,3-Dichloropropene
 Concen: 20.175 ug/l
 RT: 9.83 min Scan# 2506
 Delta R.T. 0.00 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	139611		
77	30.8	25.0	37.6	
39	40.4	32.6	49.0	





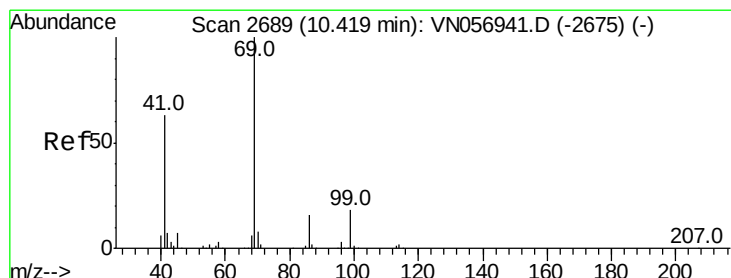
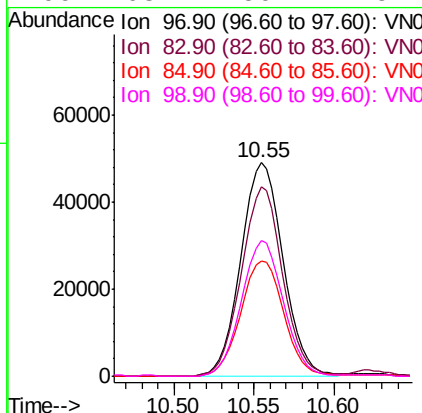
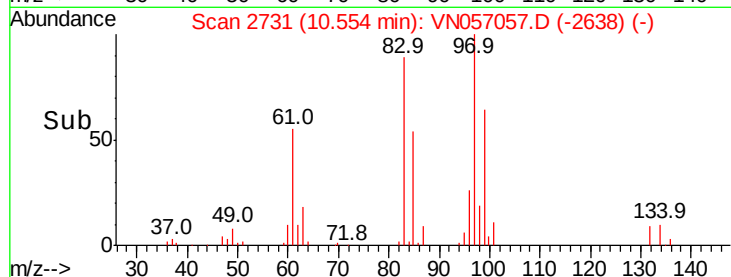
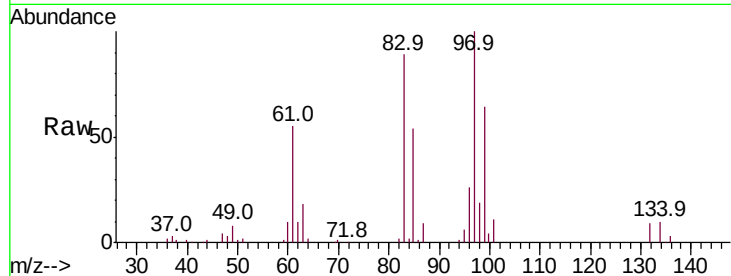
#55
 1,1,2-Trichloroethane
 Concen: 20.316 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. -0.00 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0802WBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.6	69.4	104.0
85	54.1	44.7	67.1
99	63.7	50.1	75.1

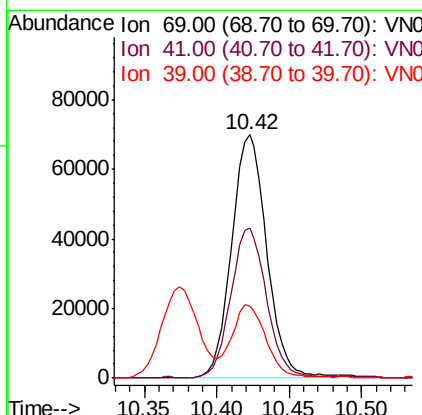
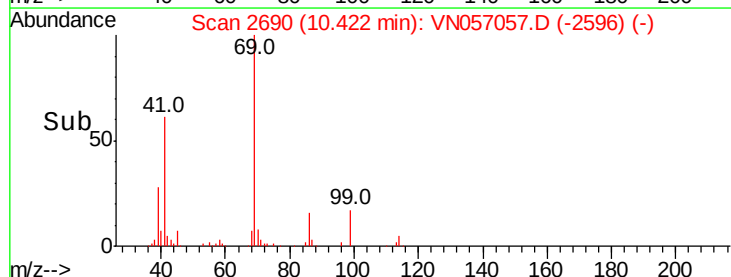
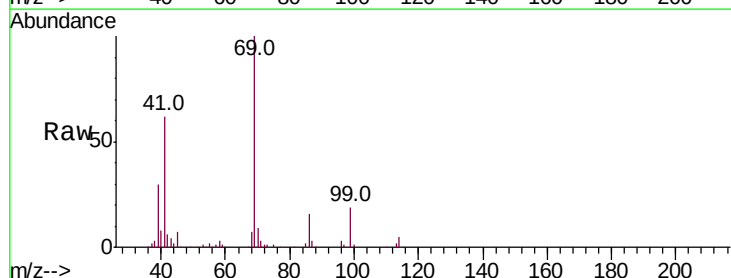
Manual Integrations
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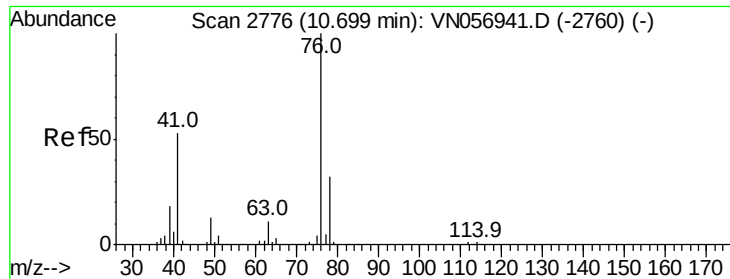
MMDadoda
 8/6/2019 2:16:45 PM



#56
 Ethyl methacrylate
 Concen: 19.065 ug/l
 RT: 10.42 min Scan# 2690
 Delta R.T. 0.00 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Lower	Upper
69	100		
41	61.6	49.2	73.8
39	28.9	23.1	34.7





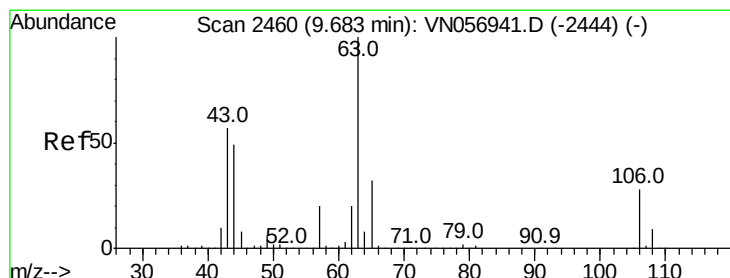
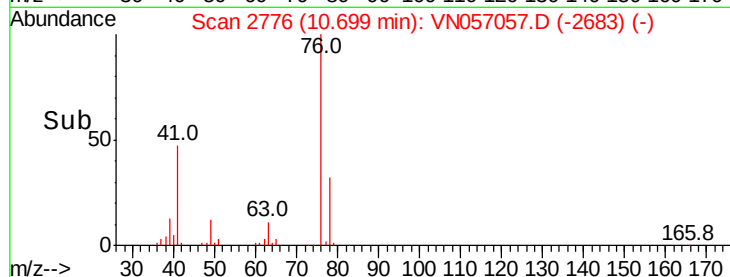
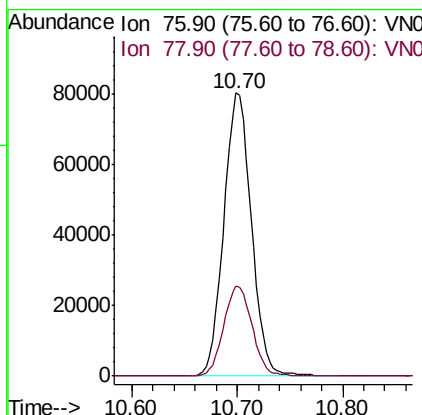
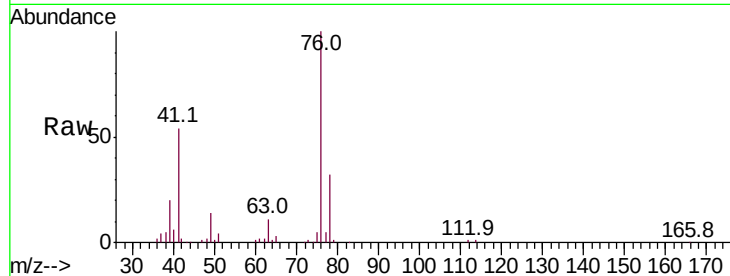
#57
 1,3-Dichloropropane
 Concen: 20.140 ug/l
 RT: 10.70 min Scan# 2776
 Delta R.T. -0.00 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0802WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.9	38.9

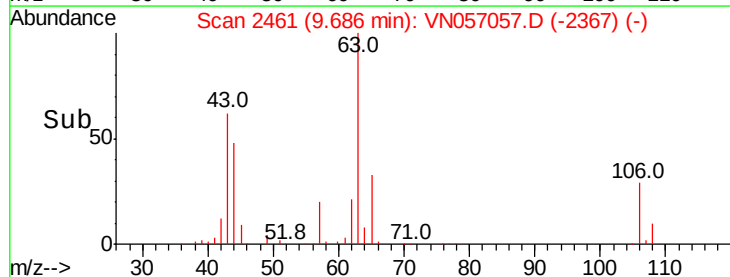
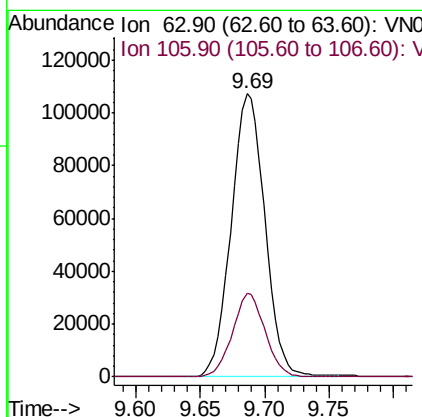
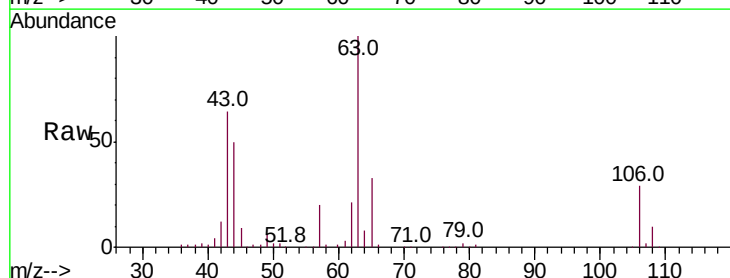
Manual Integrations
 APPROVED

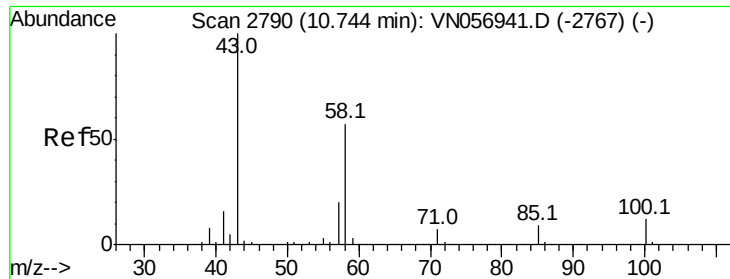
MMDadoda
 8/6/2019 2:16:45 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 74.567 ug/l
 RT: 9.69 min Scan# 2461
 Delta R.T. 0.00 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.5	22.0	33.0





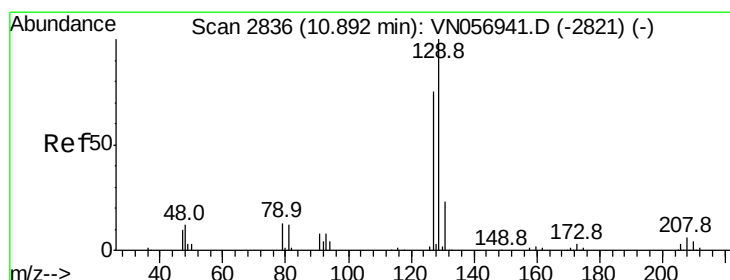
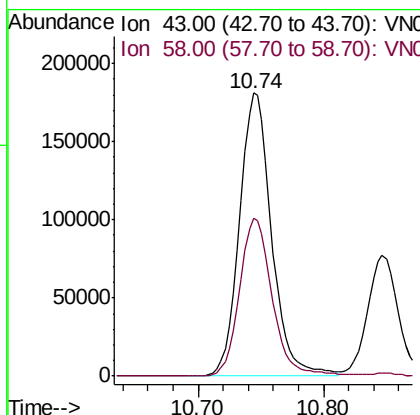
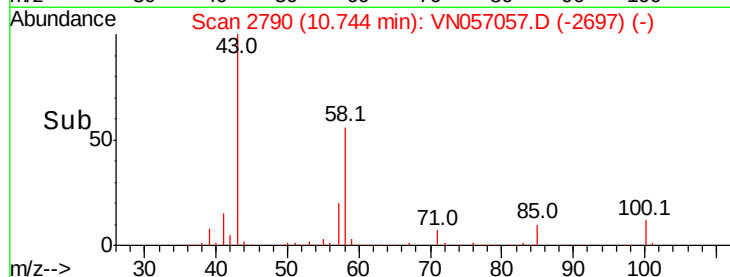
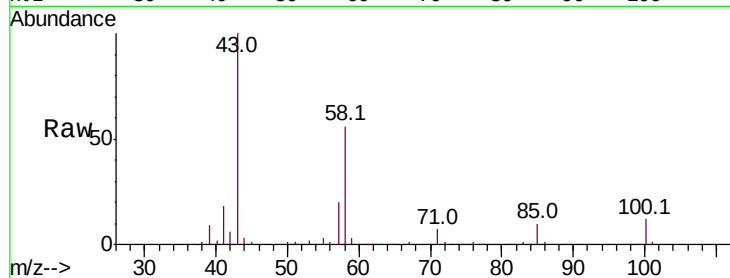
#59
2-Hexanone
Concen: 92.370 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. -0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN0802WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.8	28.5	85.5

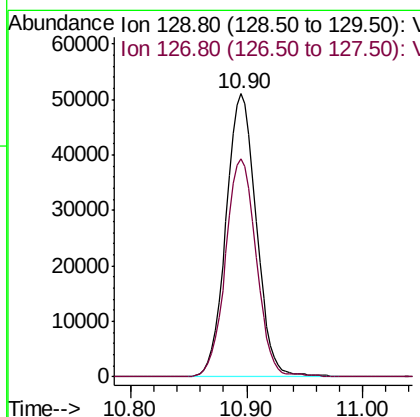
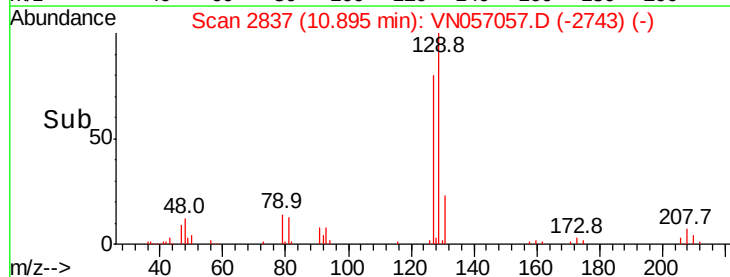
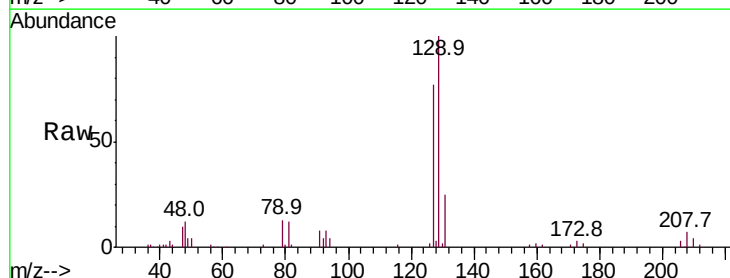
Manual Integrations
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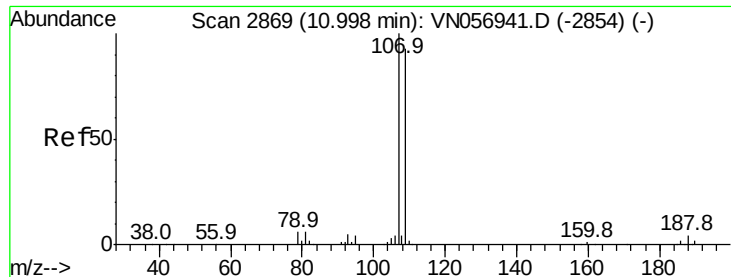
MMDadoda
8/6/2019 2:16:45 PM



#60
Dibromochloromethane
Concen: 20.694 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.0	113.9





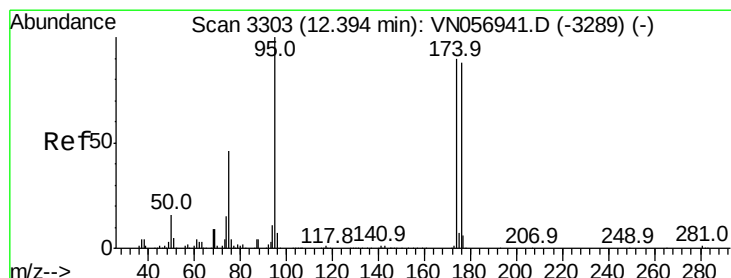
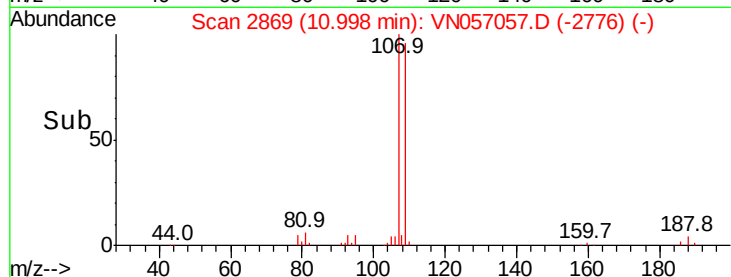
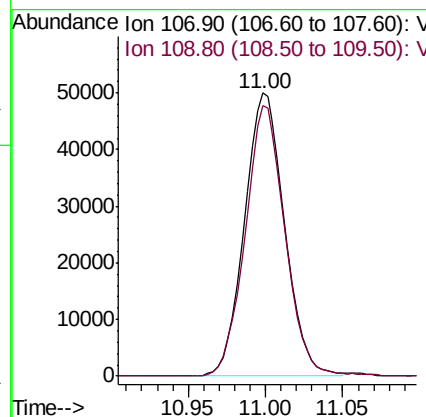
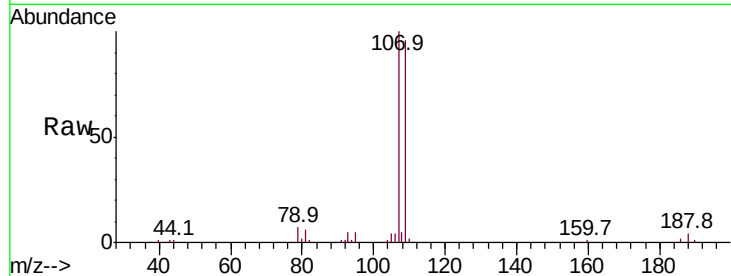
#61
1,2-Dibromoethane
Concen: 21.158 ug/l
RT: 11.00 min Scan# 2869
Delta R.T. -0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN0802WBS01

Tot Ion:107 Resp: 89966
Ion Ratio Lower Upper
107 100
109 95.0 76.0 114.0

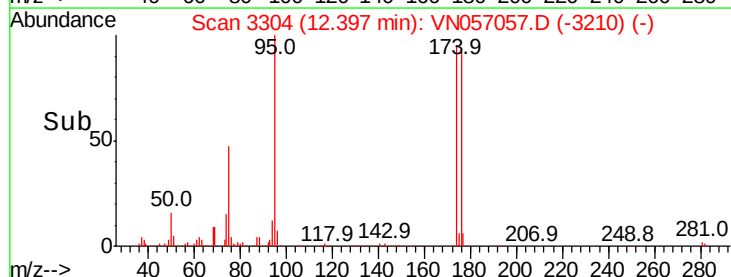
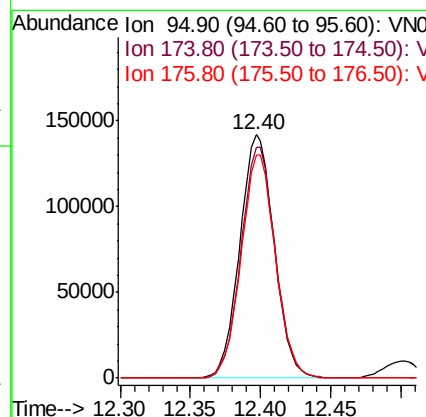
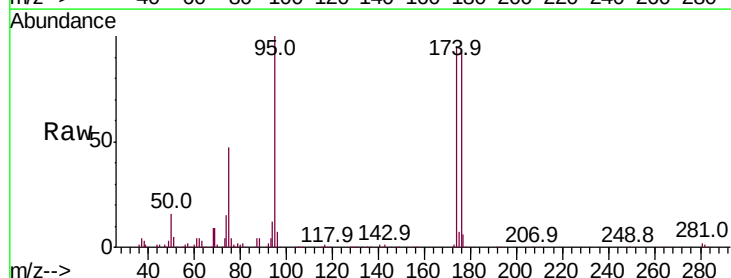
Manual Integrations
APPROVED

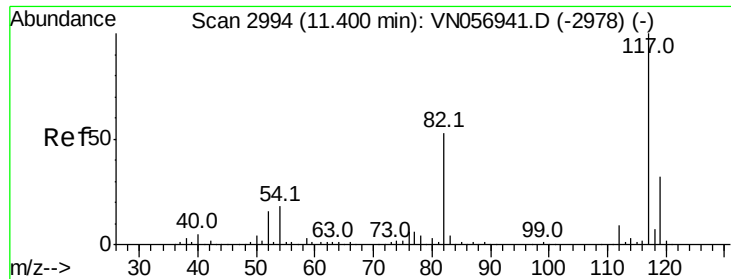
MMDadoda
8/6/2019 2:16:45 PM



#62
4-Bromofluorobenzene
Concen: 45.660 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion: 95 Resp: 242129
Ion Ratio Lower Upper
95 100
174 94.6 0.0 182.2
176 91.7 0.0 179.4





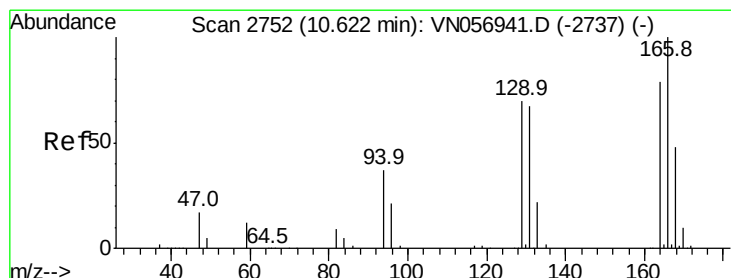
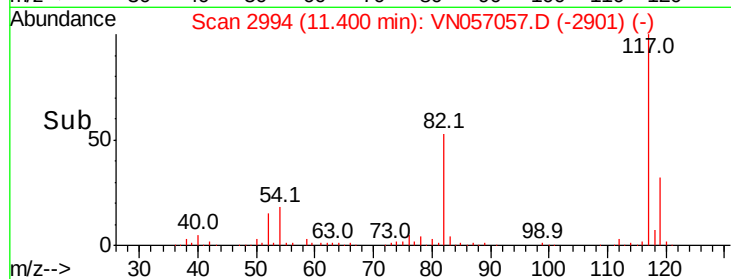
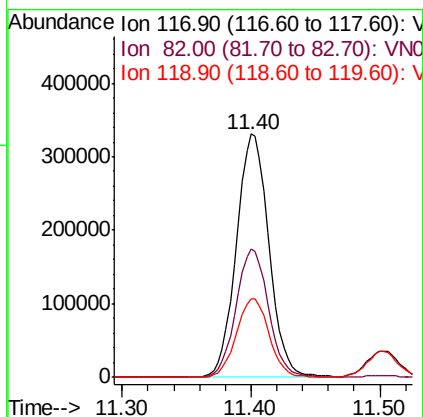
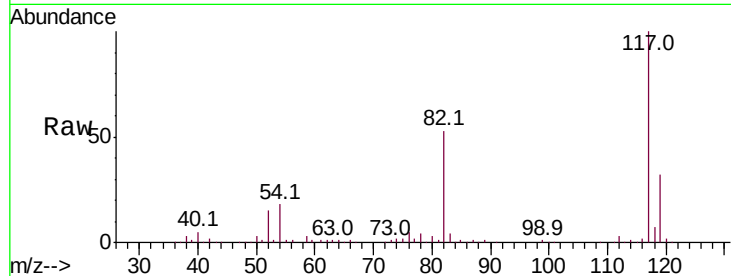
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampled :
VN0802WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.2	63.4
119	32.3	25.8	38.6

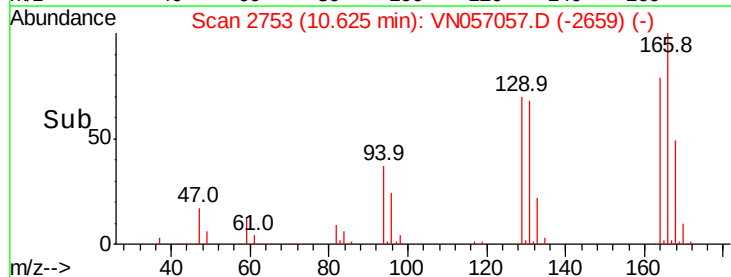
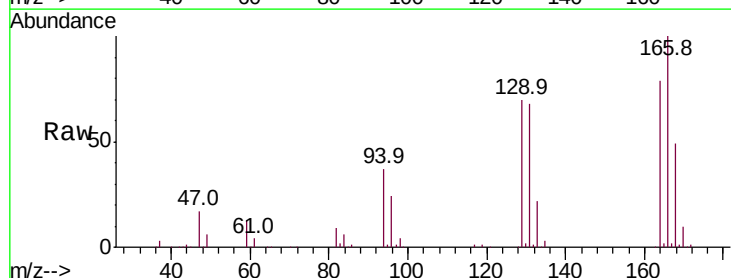
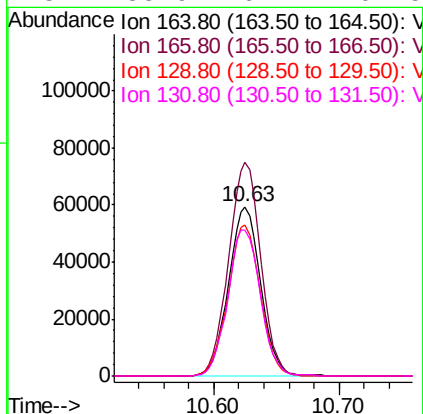
Manual Integrations
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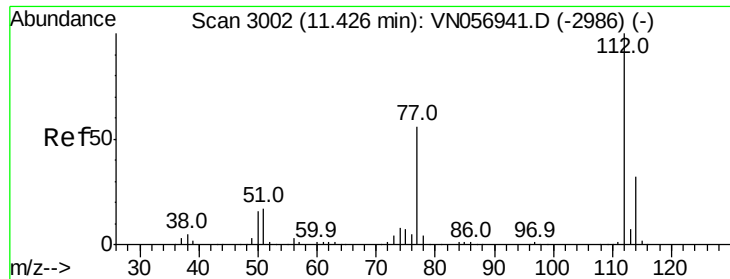
MMDadoda
8/6/2019 2:16:45 PM



#64
Tetrachloroethene
Concen: 21.028 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.0	101.1	151.7
129	88.8	70.9	106.3
131	85.9	67.7	101.5





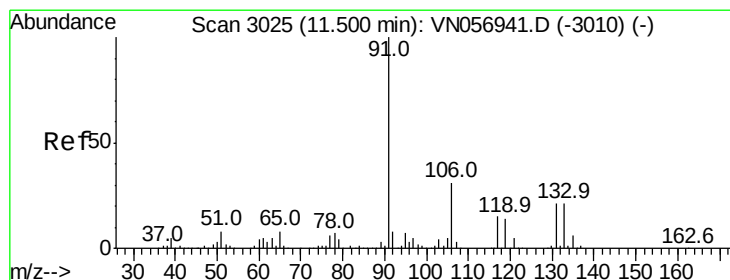
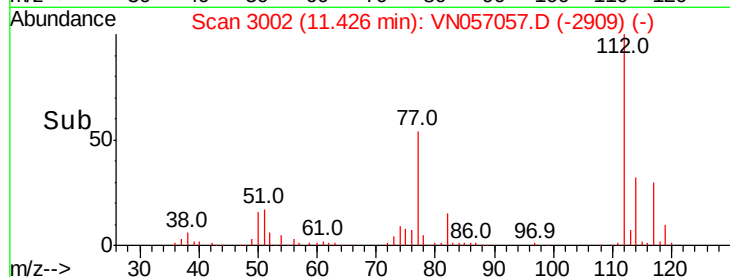
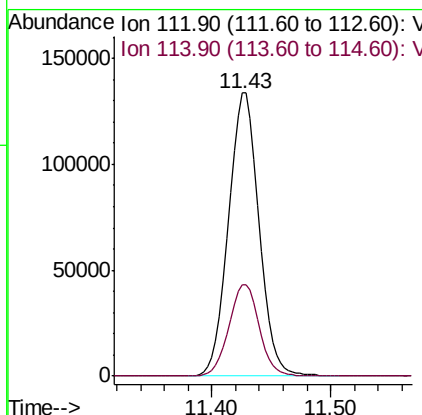
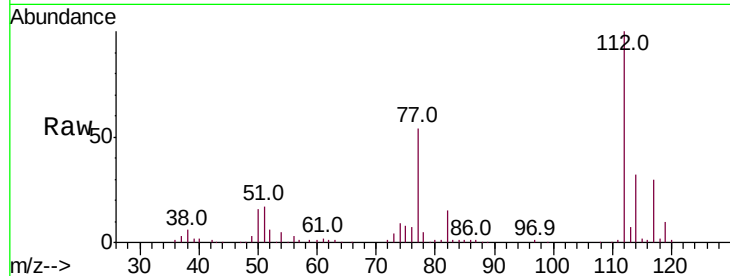
#65
Chlorobenzene
Concen: 20.106 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. -0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampled :
VN0802WBS01

Tot Ion:112 Resp: 237996
Ion Ratio Lower Upper
112 100
114 32.2 26.0 39.0

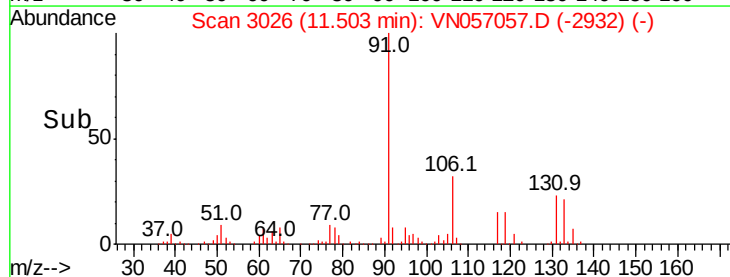
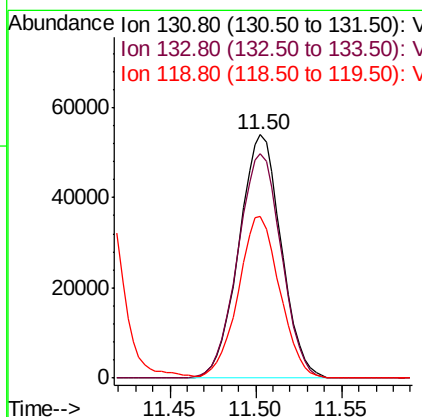
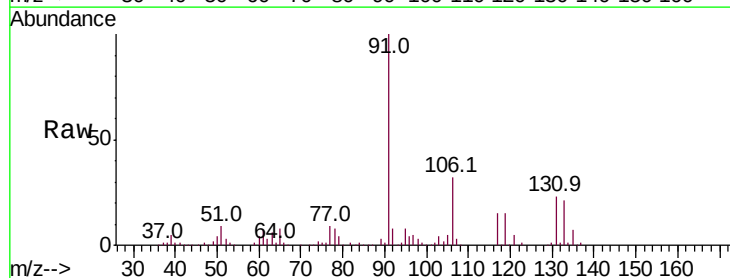
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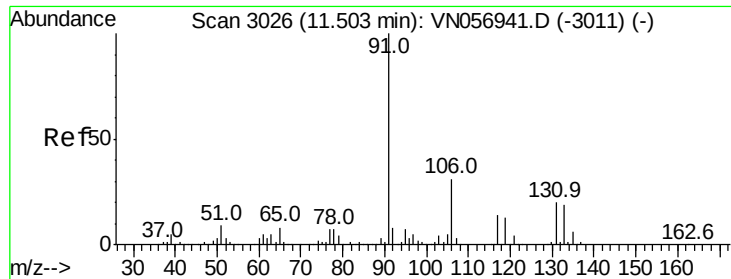
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.667 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion:131 Resp: 92075
Ion Ratio Lower Upper
131 100
133 94.9 48.0 144.0
119 65.3 33.2 99.6





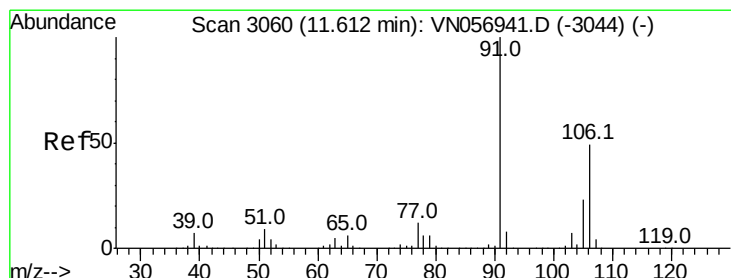
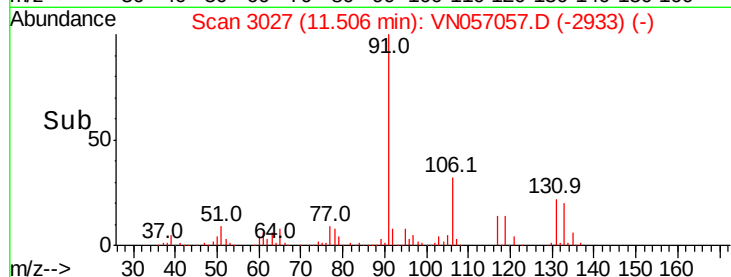
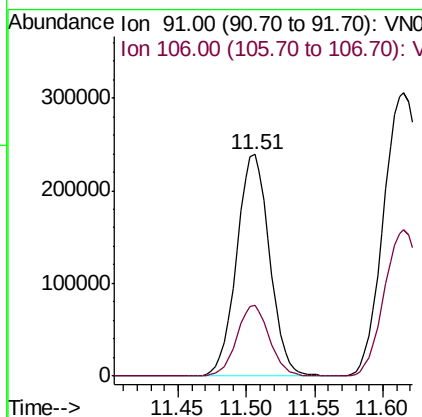
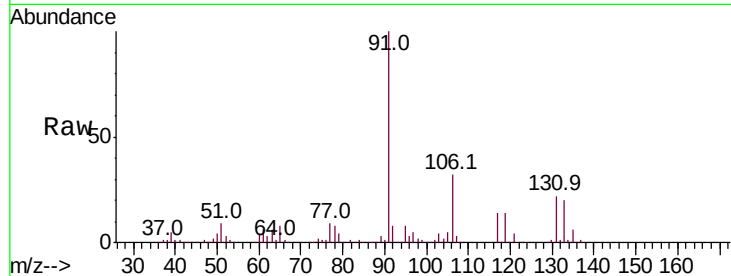
#67
Ethyl Benzene
Concen: 19.596 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampled :
VN0802WBS01

Tot Ion: 91 Resp: 400892
Ion Ratio Lower Upper
91 100
106 31.8 25.1 37.7

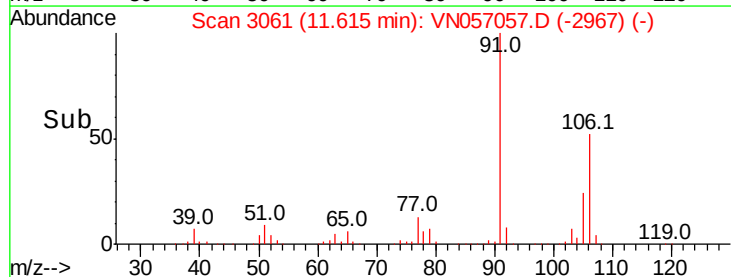
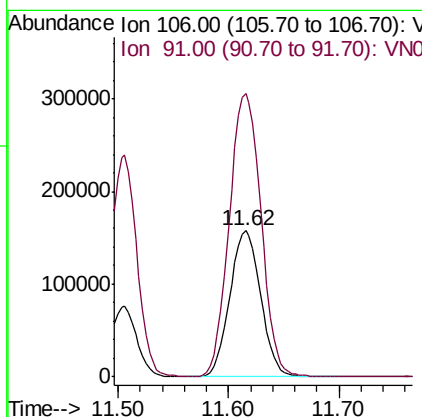
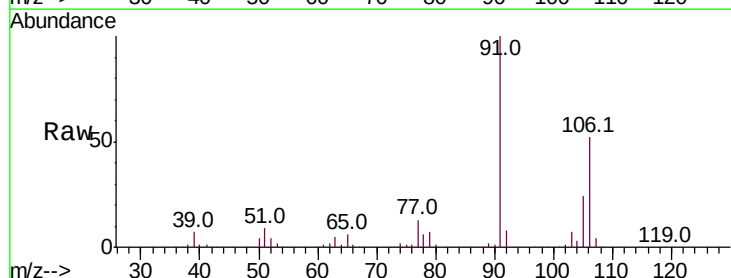
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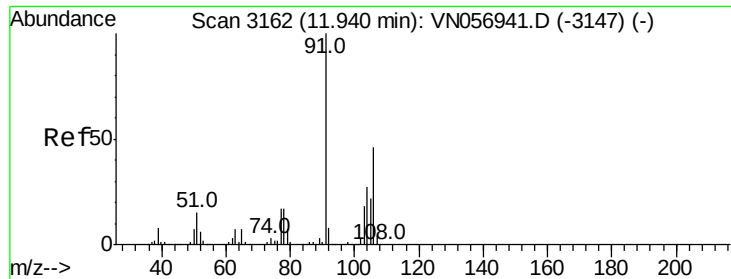
MMDadoda
8/6/2019 2:16:45 PM



#68
m/p-Xylenes
Concen: 40.530 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion: 106 Resp: 306002
Ion Ratio Lower Upper
106 100
91 198.9 160.0 240.0





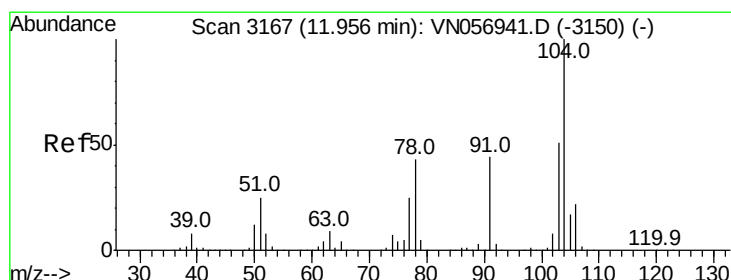
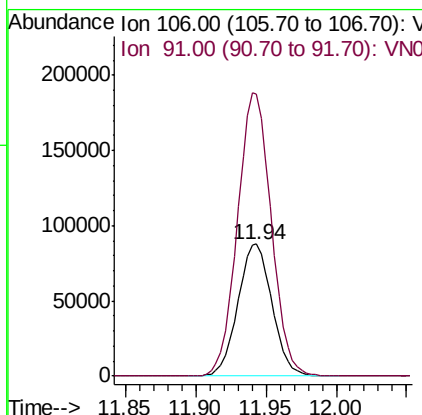
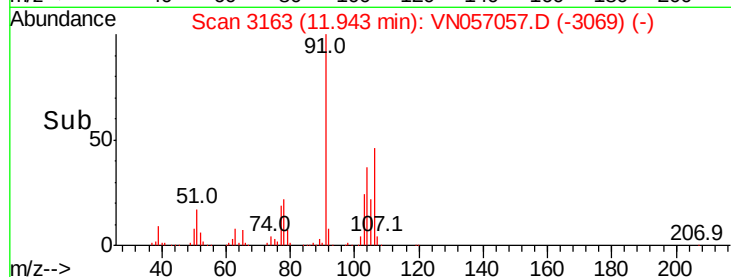
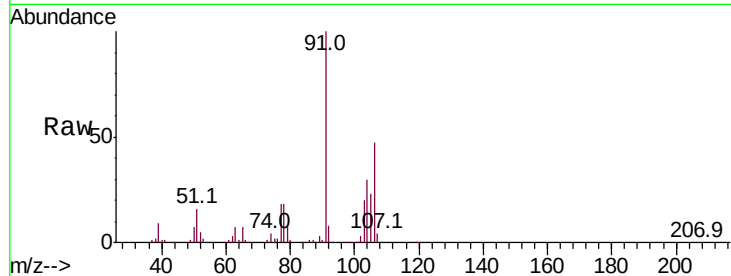
#69
o-Xylene
Concen: 20.184 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN0802WBS01

Tot Ion:106 Resp: 149090
Ion Ratio Lower Upper
106 100
91 212.0 106.2 318.6

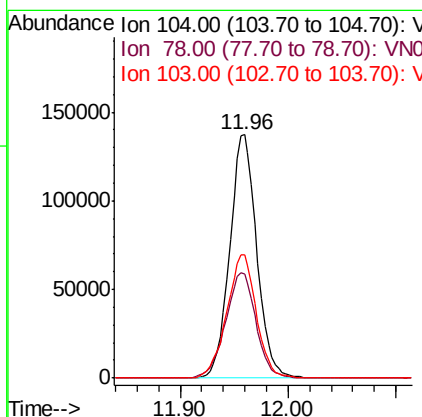
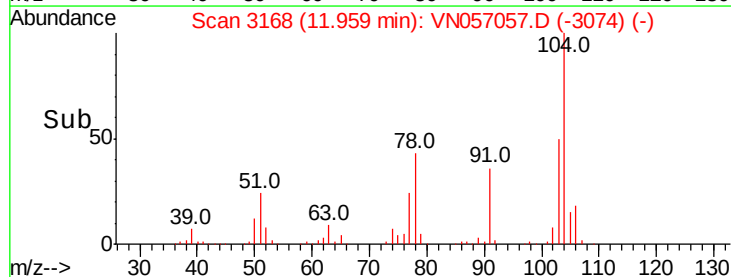
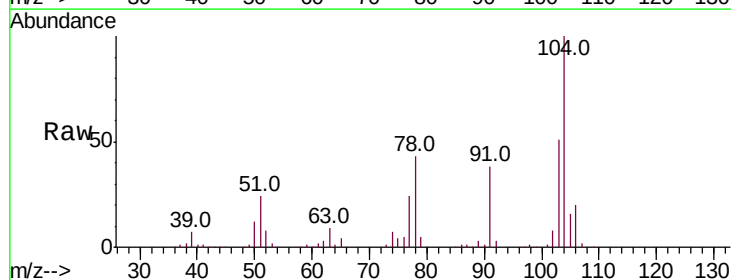
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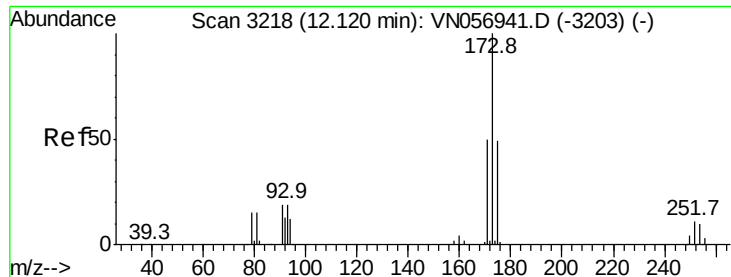
MMDadoda
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#70
Styrene
Concen: 19.532 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion:104 Resp: 239580
Ion Ratio Lower Upper
104 100
78 48.5 38.1 57.1
103 55.4 44.3 66.5





#71

Bromoform

Concen: 20.263 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. -0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN0802WBS01

Tot Ion:173 Resp: 63026

Ion Ratio Lower Upper

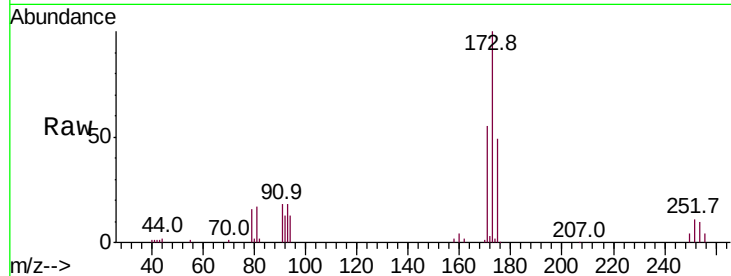
173 100

175 49.8 24.1 72.4

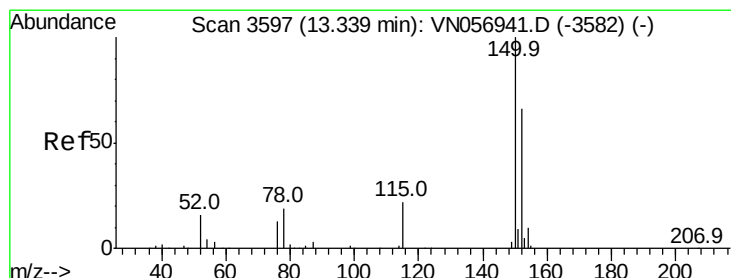
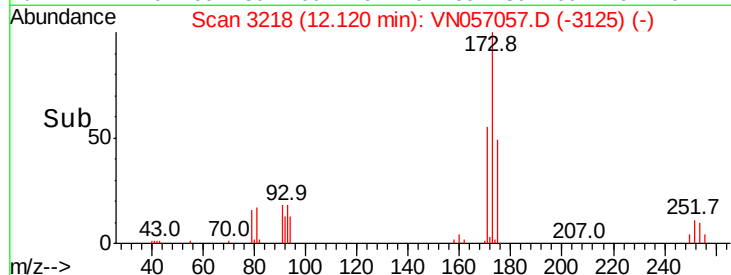
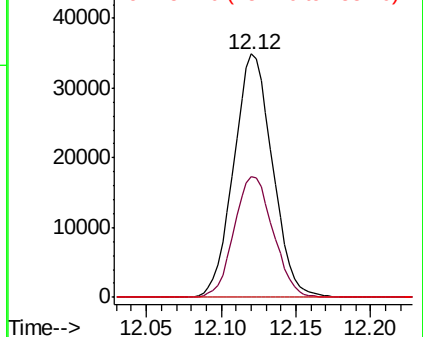
254 0.0 0.1 0.1#

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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

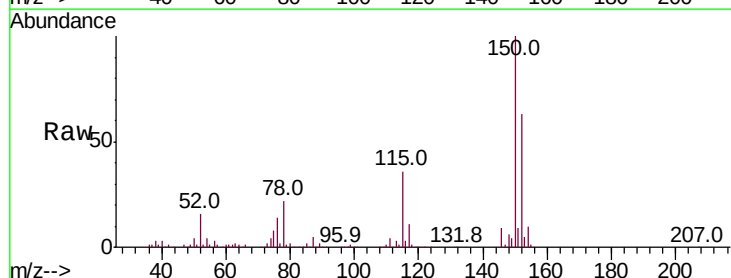
Tgt Ion:152 Resp: 220689

Ion Ratio Lower Upper

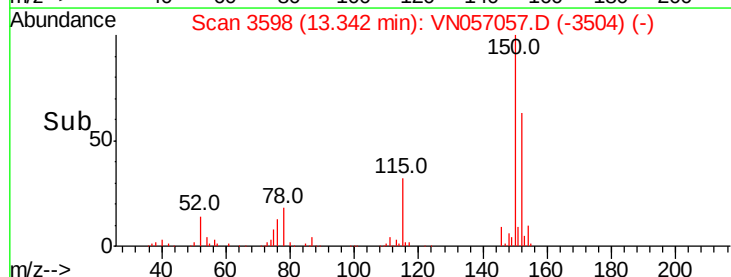
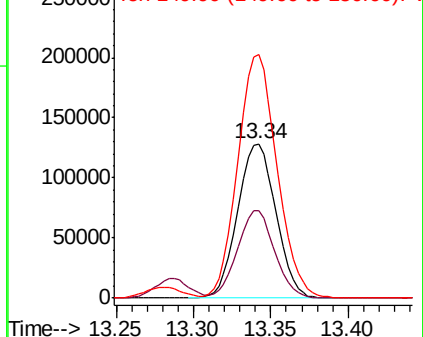
152 100

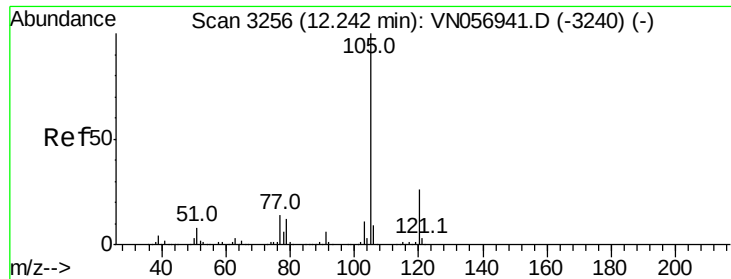
115 55.0 28.2 84.6

150 162.5 0.0 349.4



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: 20.774 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN0802WBS01

Tot Ion:105 Resp: 396228

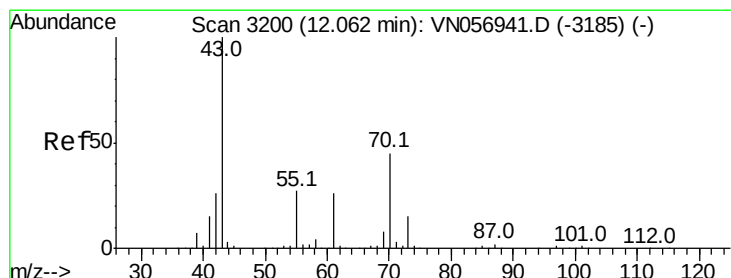
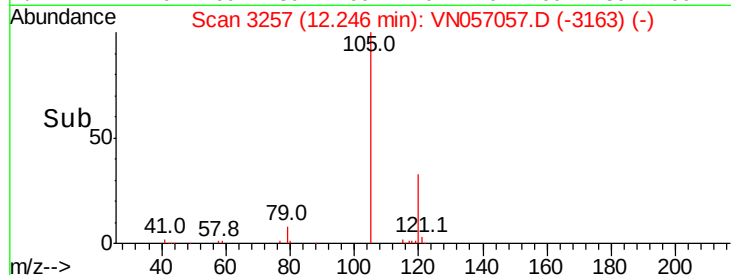
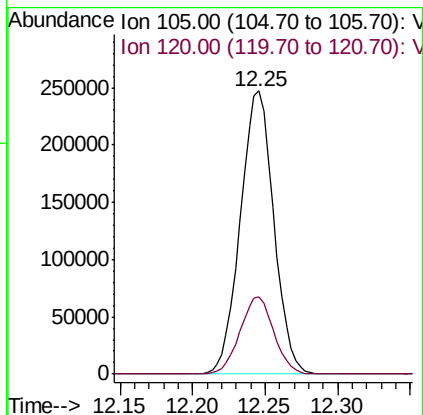
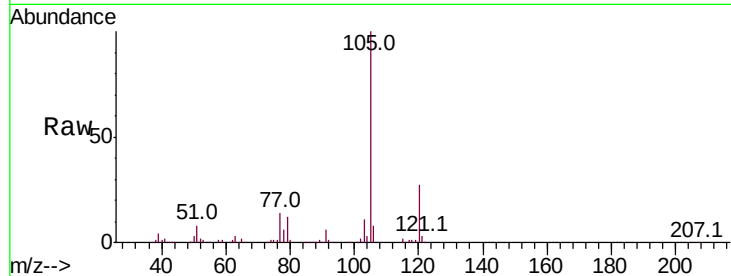
Ion Ratio Lower Upper

105 100

120 27.5 13.5 40.5

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#74

N-ethyl acetate

Concen: 20.259 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Tgt Ion: 43 Resp: 112195

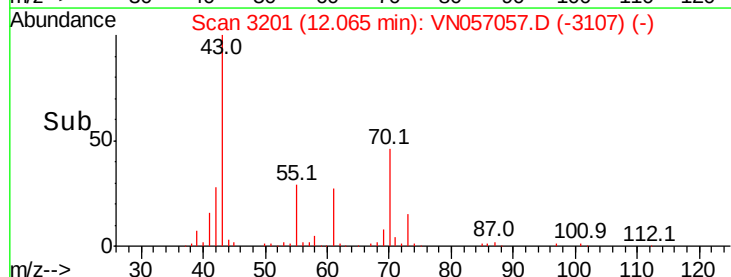
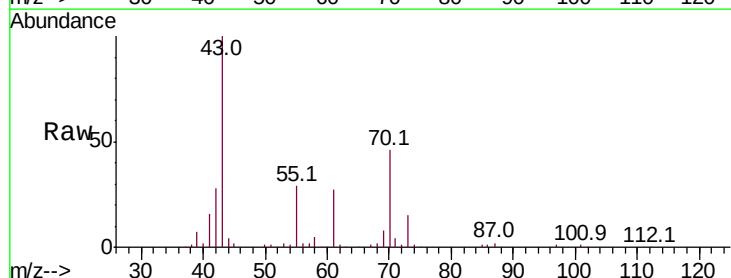
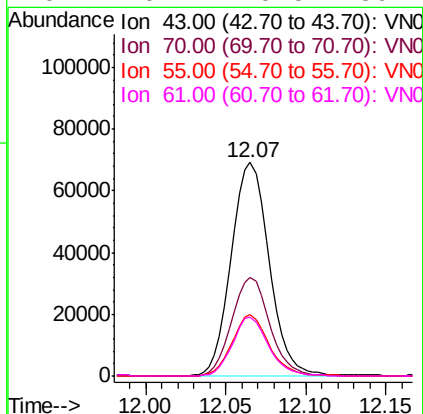
Ion Ratio Lower Upper

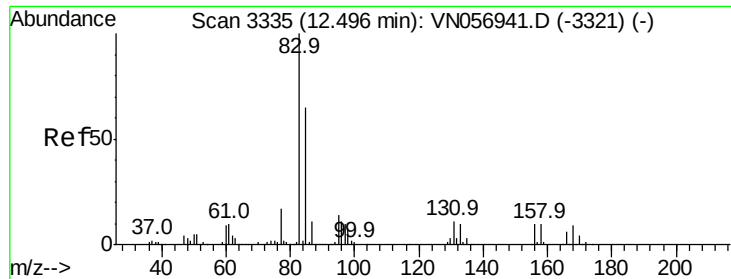
43 100

70 46.1 36.5 54.7

55 28.2 21.4 32.0

61 26.1 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 21.470 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

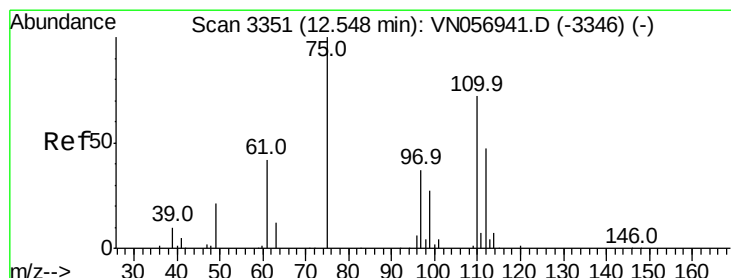
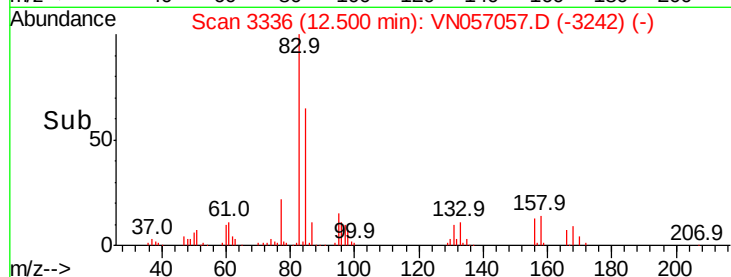
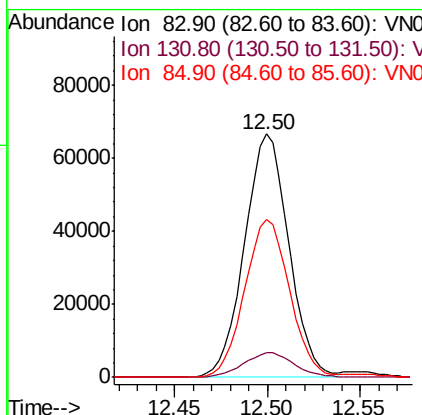
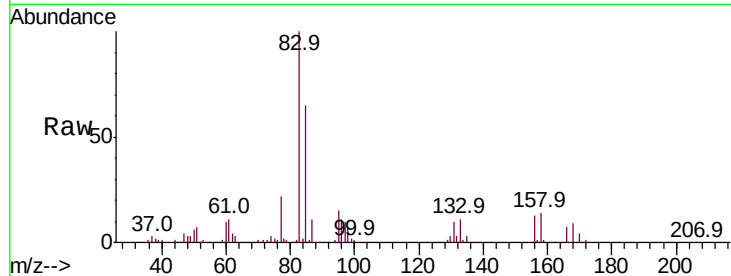
ClientSampleId :

VN0802WBS01

Tot Ion:	83	Resp:	110529
Ion Ratio	Lower	Upper	
83	100		
131	11.5	5.3	16.1
85	66.1	32.5	97.4

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#76

1,2,3-Trichloropropane

Concen: 23.253 ug/l m

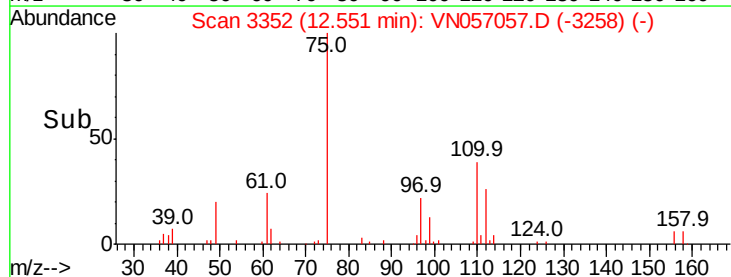
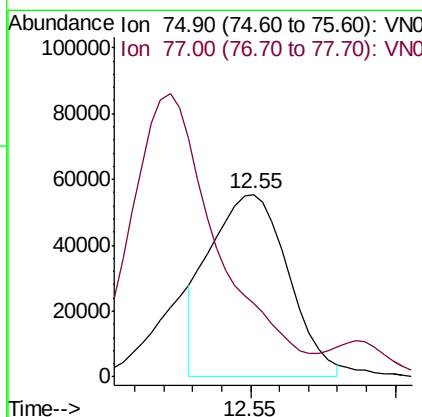
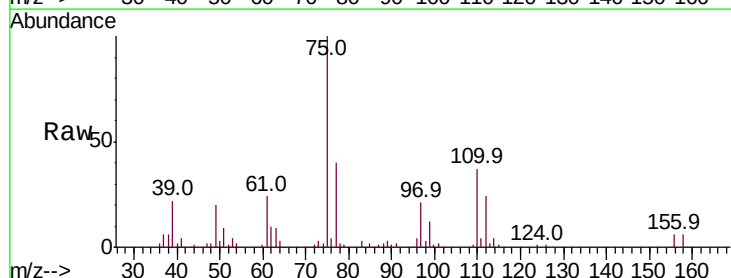
RT: 12.55 min Scan# 3352

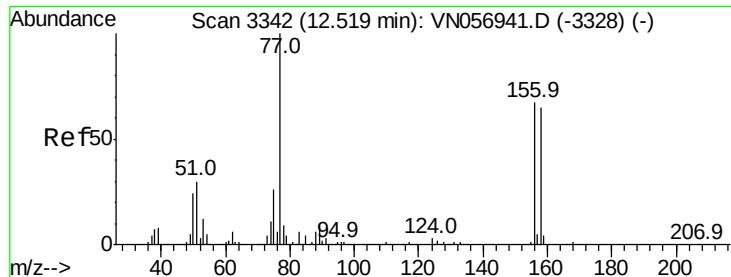
Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Tgt Ion:	75	Resp:	104218
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.437 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

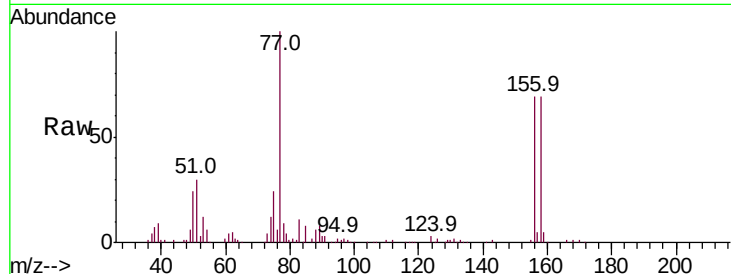
ClientSampleId :

VN0802WBS01

Tot Ion:	156	Resp:	101735
Ion Ratio	Lower	Upper	
156	100		
77	177.2	89.5	268.5
158	99.2	48.4	145.3

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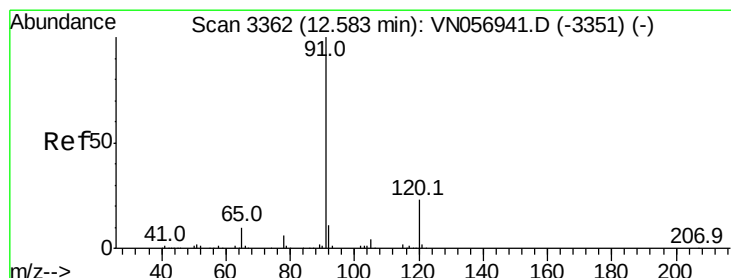
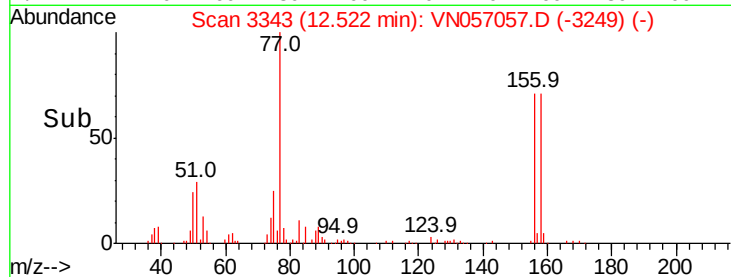
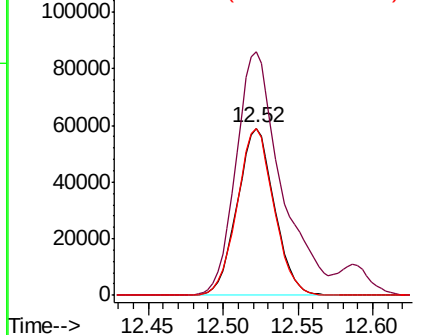
MMDadoda
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.222 ug/l

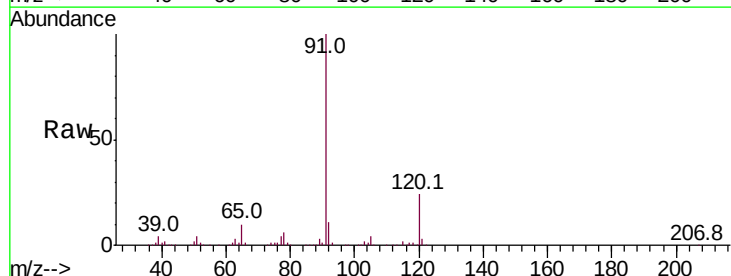
RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN057057.D

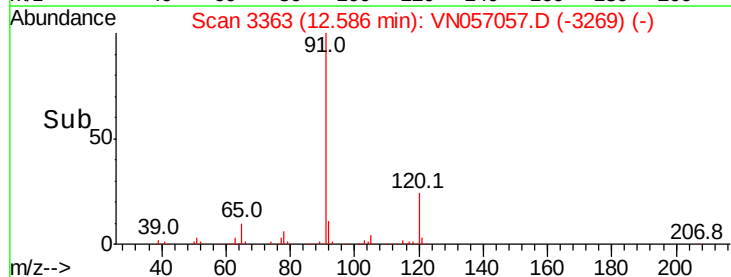
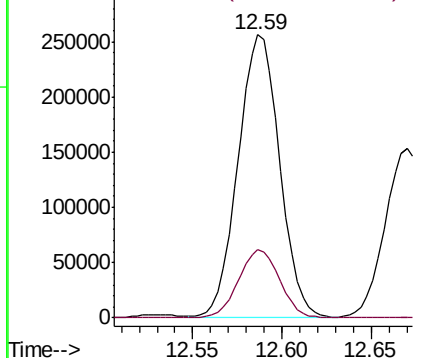
Acq: 2 Aug 2019 11:36

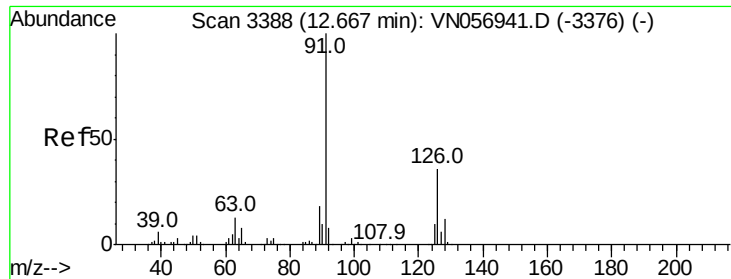
Tgt Ion:	91	Resp:	411812
Ion Ratio	Lower	Upper	
91	100		
120	24.0	11.8	35.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.401 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN0802WBS01

Tot Ion: 91 Resp: 255823

Ion Ratio Lower Upper

91 100

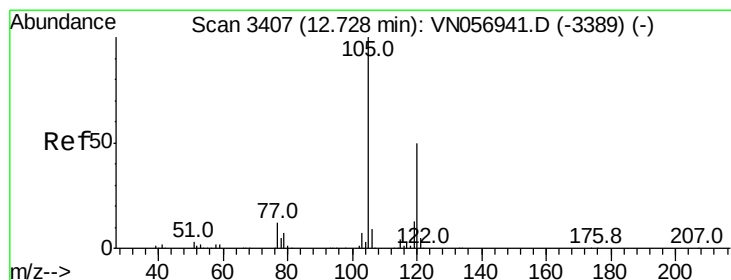
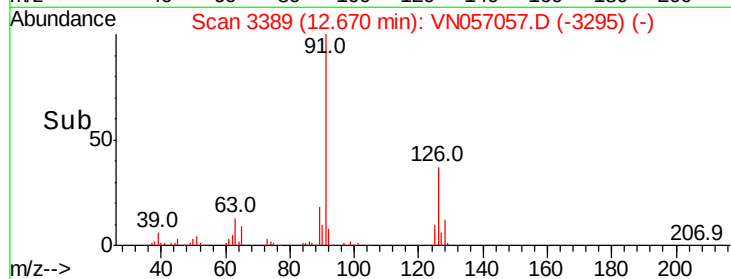
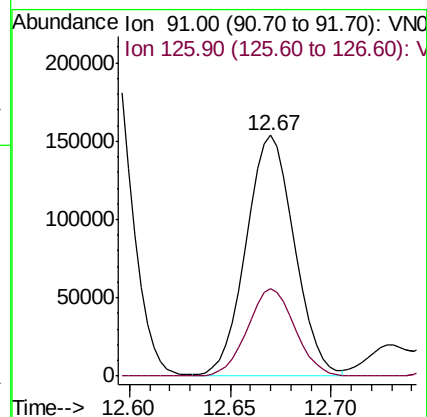
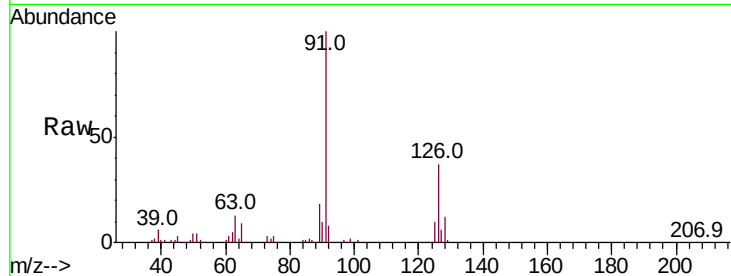
126 36.1 17.9 53.7

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 21.615 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN057057.D

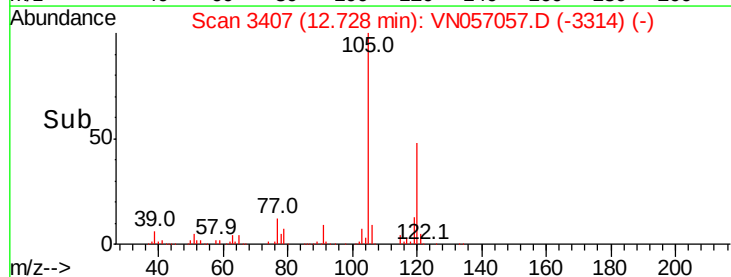
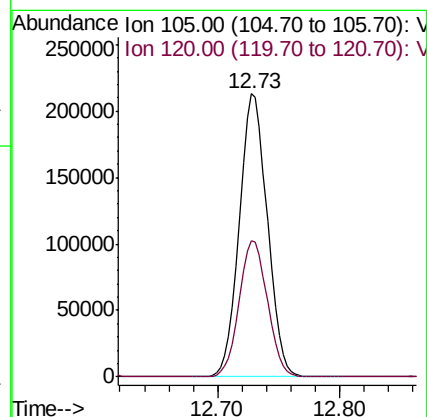
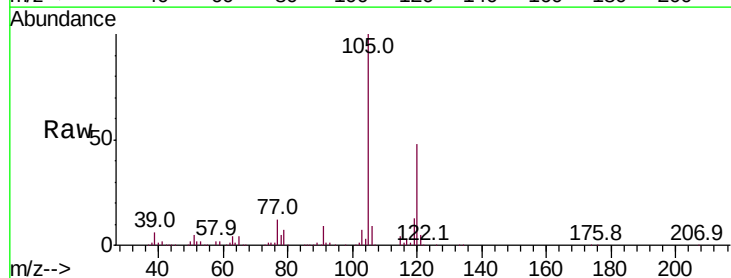
Acq: 2 Aug 2019 11:36

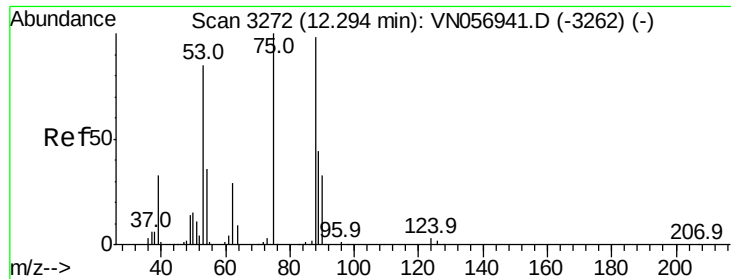
Tgt Ion: 105 Resp: 338353

Ion Ratio Lower Upper

105 100

120 48.7 24.8 74.3





#81

trans-1,4-Dichloro-2-butene

Concen: 20.636 ug/l

RT: 12.30 min Scan# 3273

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

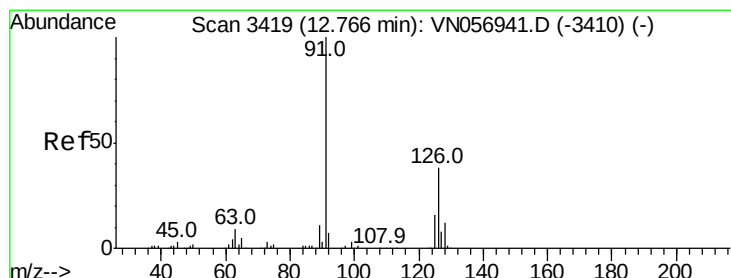
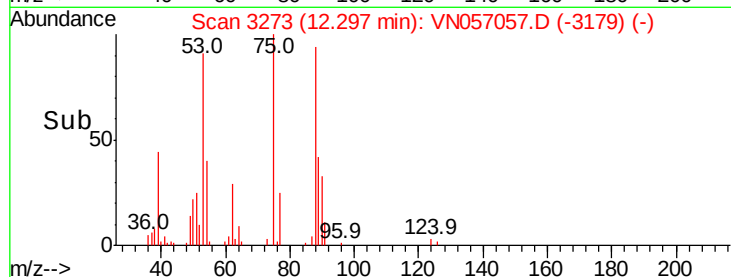
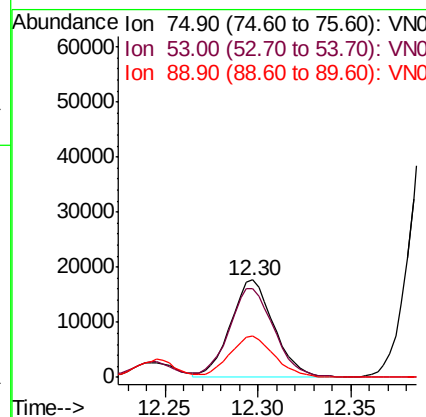
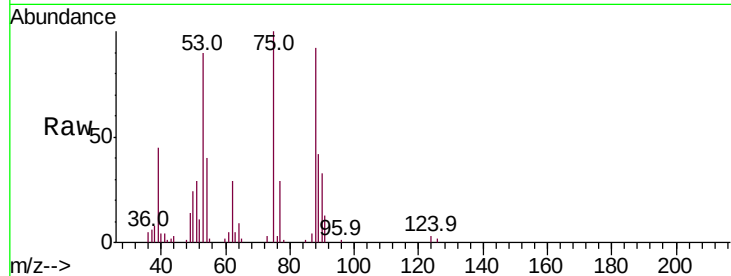
ClientSampleId :

VN0802WBS01

Tot Ion:	75	Resp:	28785
Ion	Ratio	Lower	Upper
75	100		
53	94.1	69.3	103.9
89	43.5	35.8	53.6

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.160 ug/l

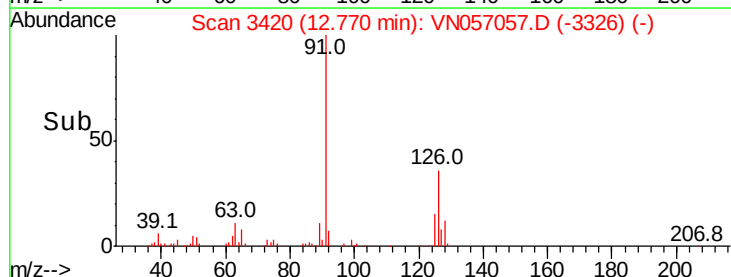
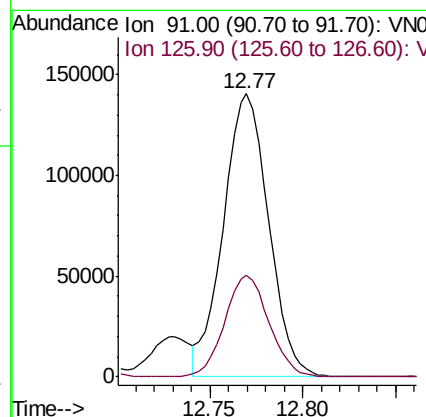
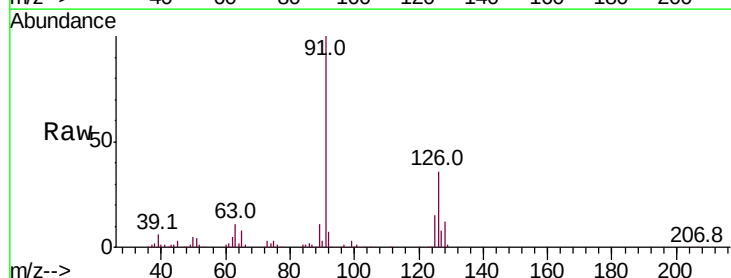
RT: 12.77 min Scan# 3420

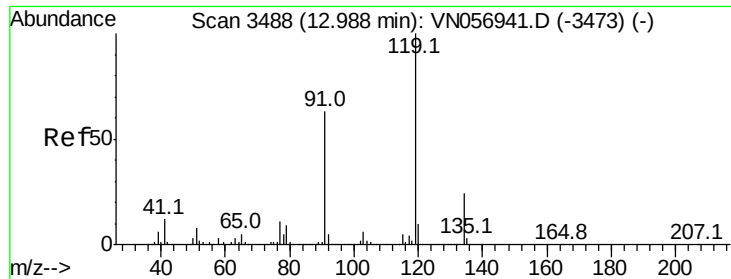
Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Tgt Ion:	91	Resp:	236582
Ion	Ratio	Lower	Upper
91	100		
126	35.3	17.5	52.5





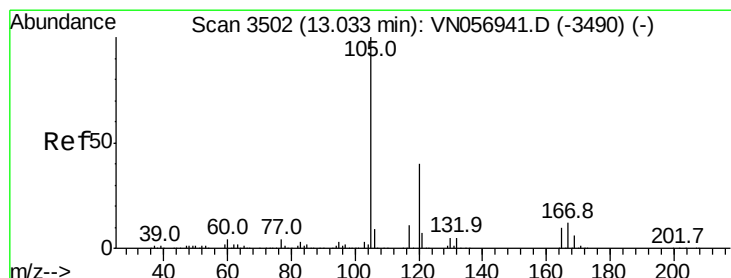
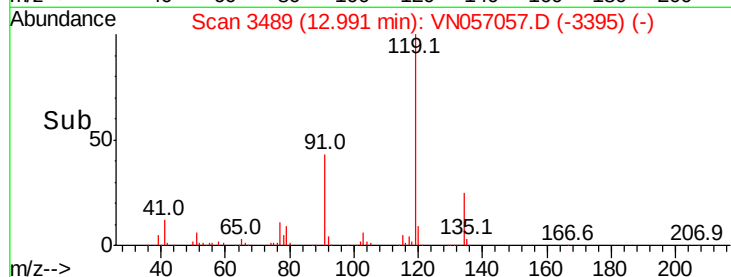
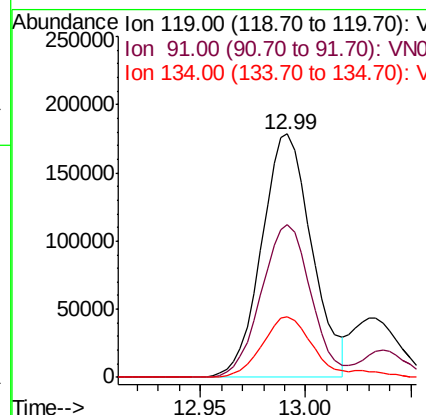
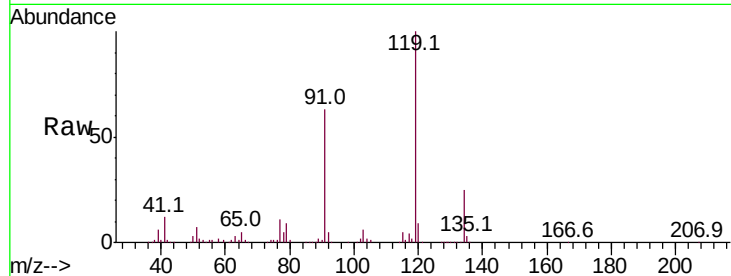
#83
tert-Butylbenzene
Concen: 21.368 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN0802WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	296102		
91	62.1		31.3	93.8
134	24.7		13.3	39.8

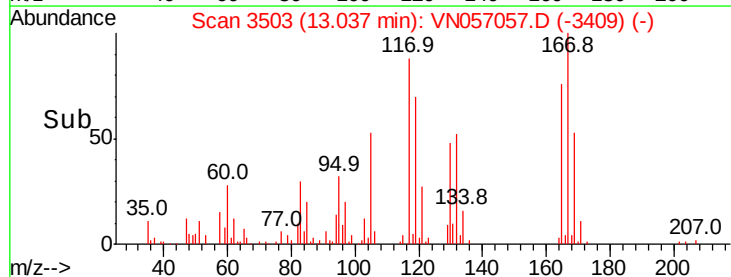
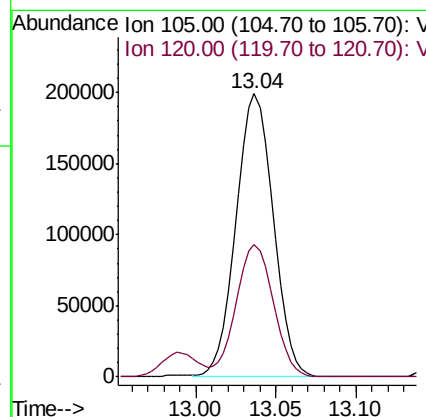
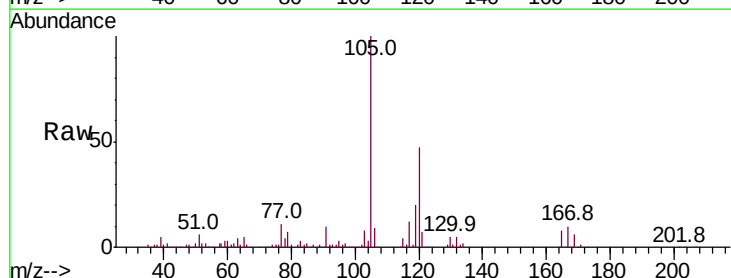
Manual Integrations
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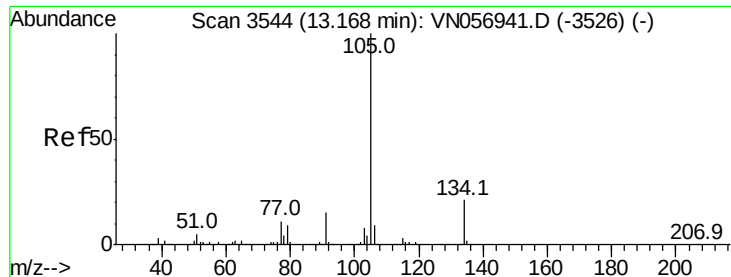
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 20.897 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	314759		
120	47.0		23.2	69.6





#85

sec-Butylbenzene

Concen: 20.563 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN0802WBS01

Tot Ion:105 Resp: 367547

Ion Ratio Lower Upper

105 100

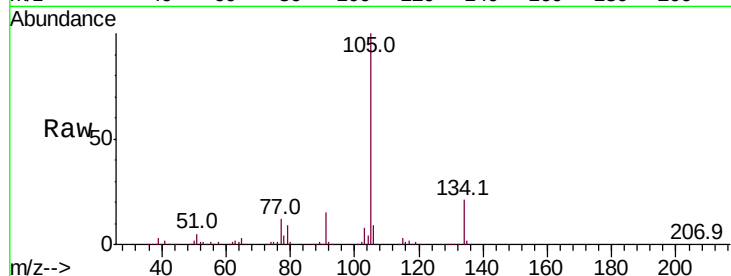
134 20.7 10.3 30.8

Manual Integrations

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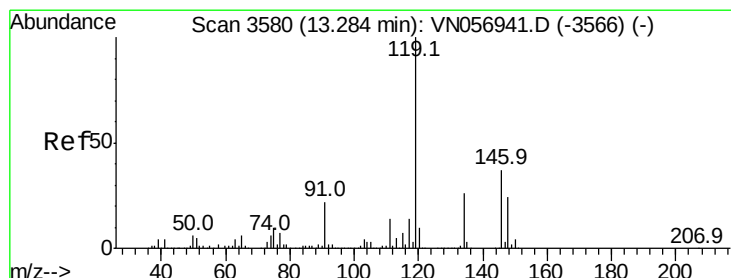
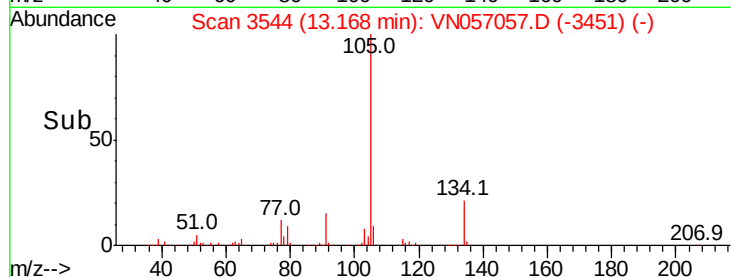
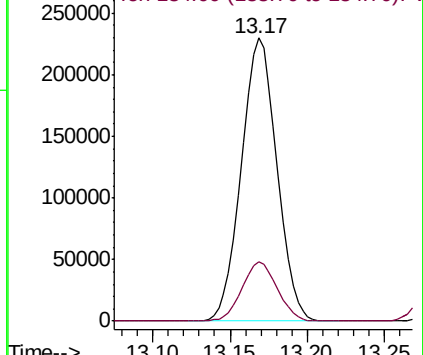
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.645 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

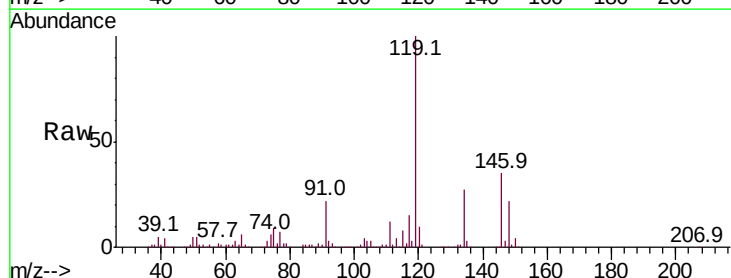
Tgt Ion:119 Resp: 327614

Ion Ratio Lower Upper

119 100

134 26.5 13.4 40.1

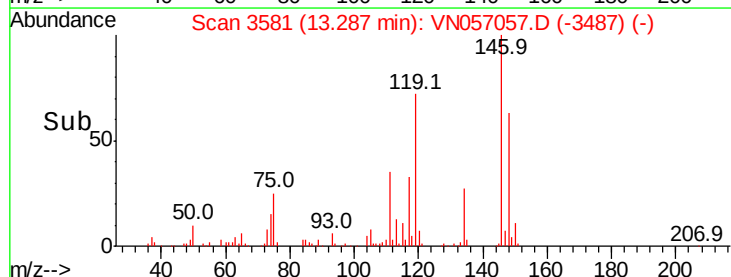
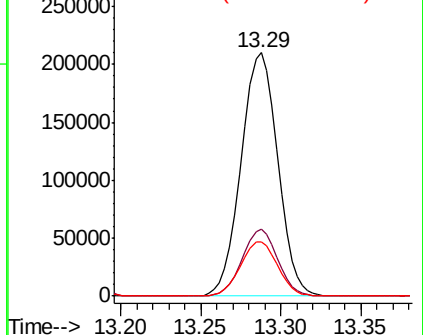
91 22.7 11.0 33.0

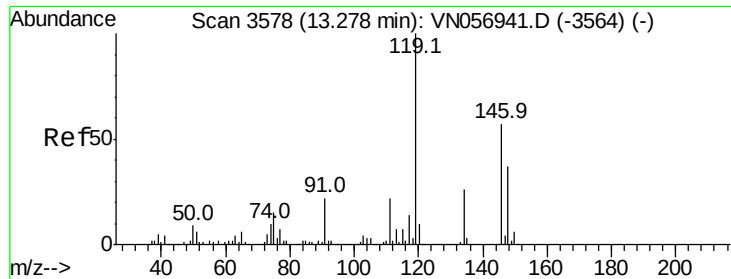


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 19.978 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN057057.D

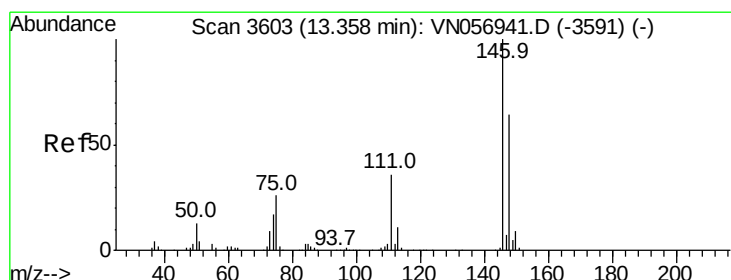
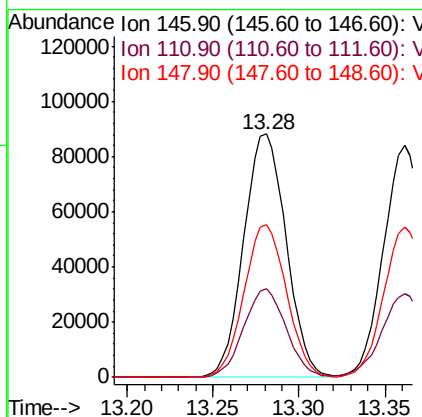
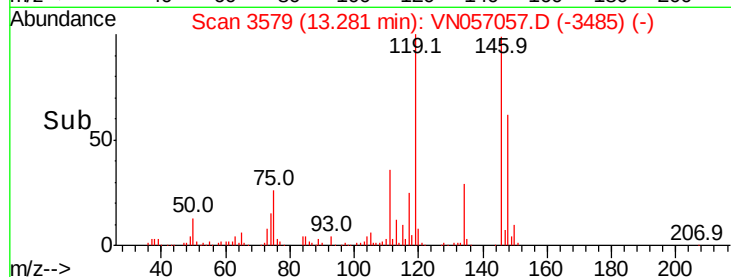
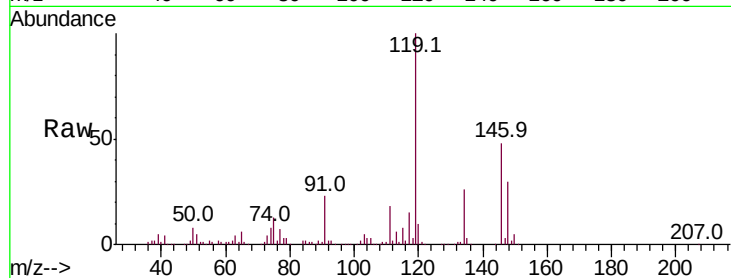
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN0802WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.3	18.6	55.8
148	62.7	32.2	96.6

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 19.279 ug/l

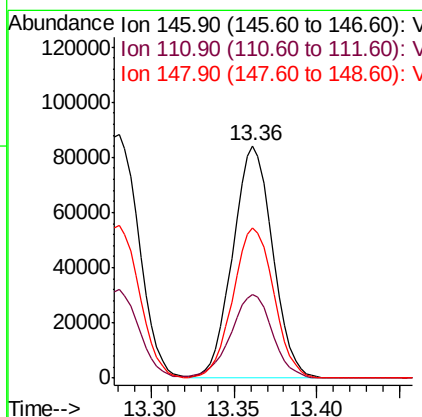
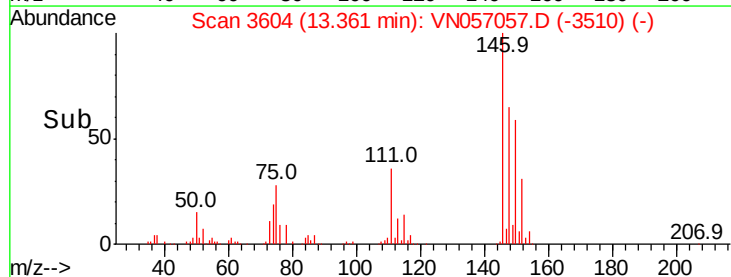
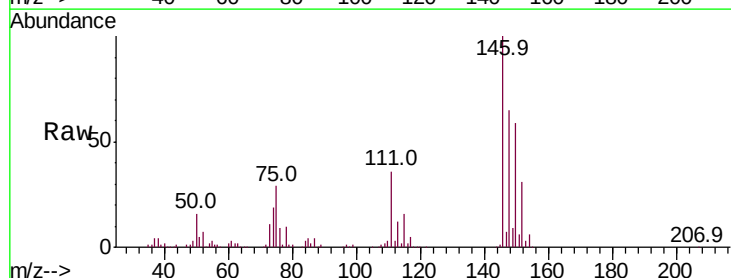
RT: 13.36 min Scan# 3604

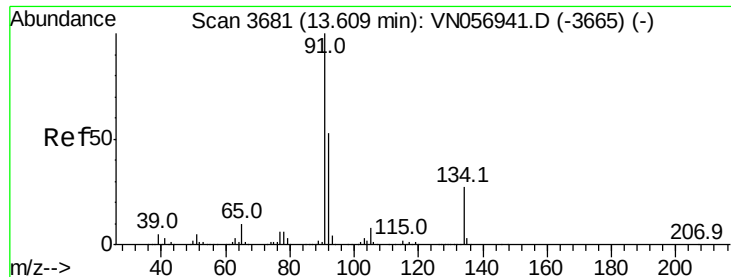
Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.4	55.2
148	66.4	32.3	96.9





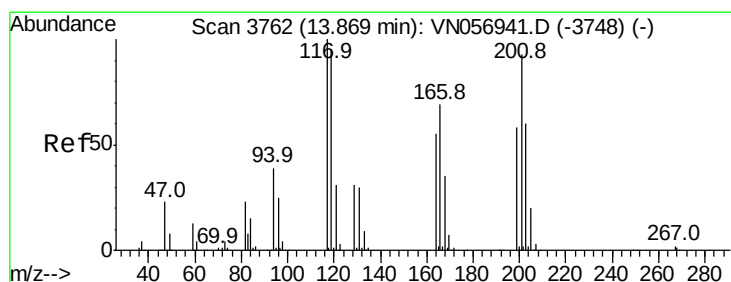
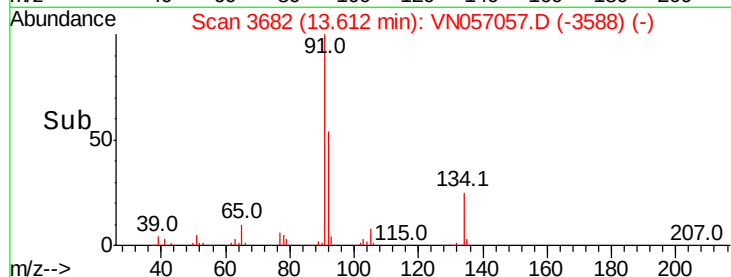
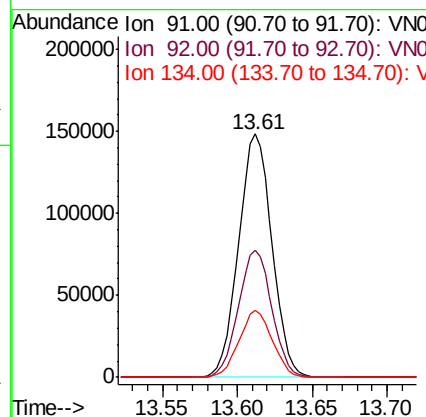
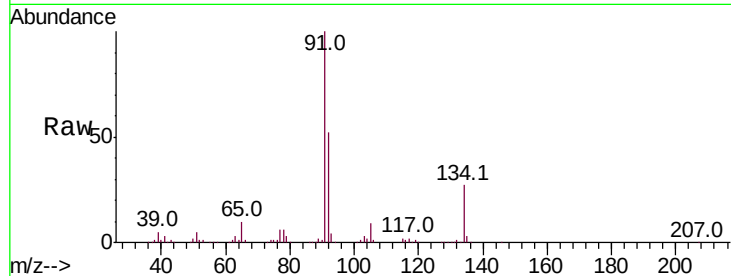
#89
n-Butylbenzene
Concen: 18.843 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN0802WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.2	78.5
134	27.4	13.5	40.4

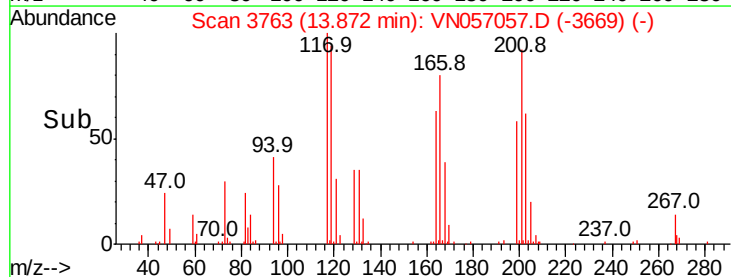
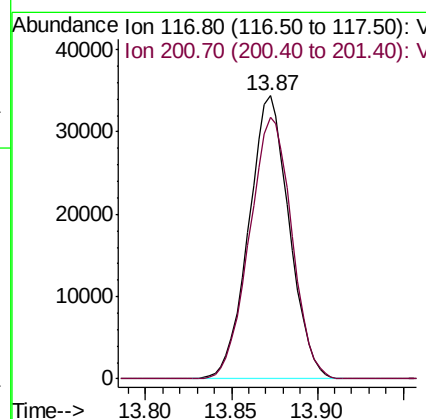
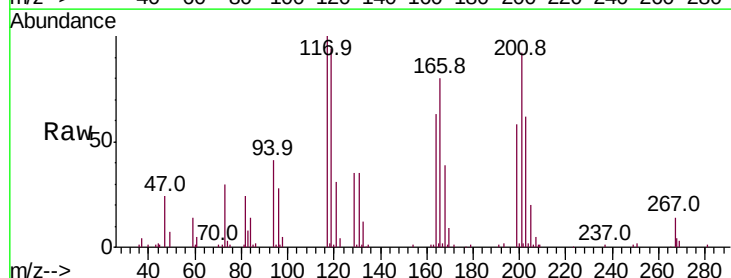
Manual Integrations
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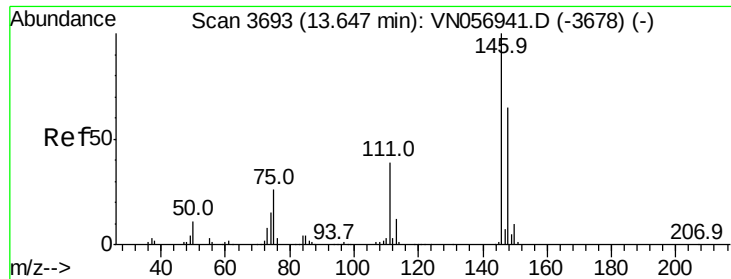
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#90
Hexachloroethane
Concen: 20.521 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Lower	Upper
117	100		
201	96.4	47.0	141.2





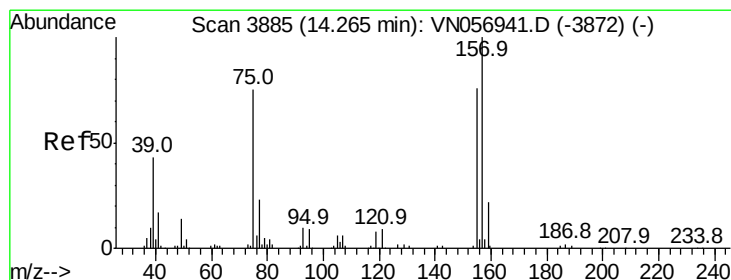
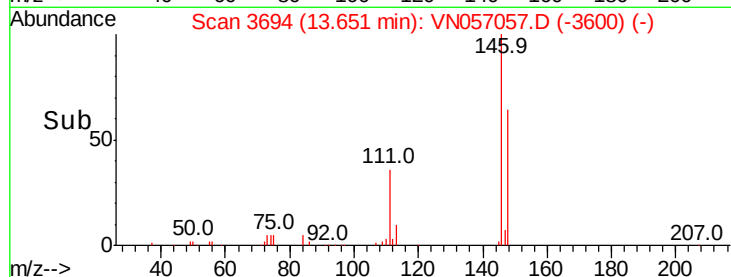
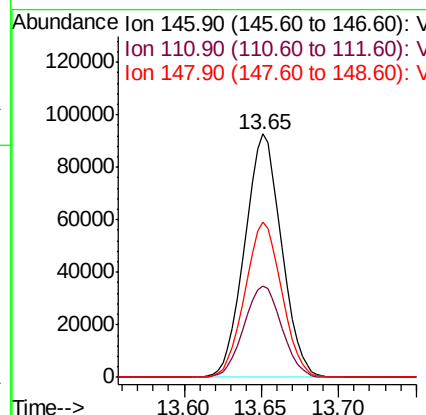
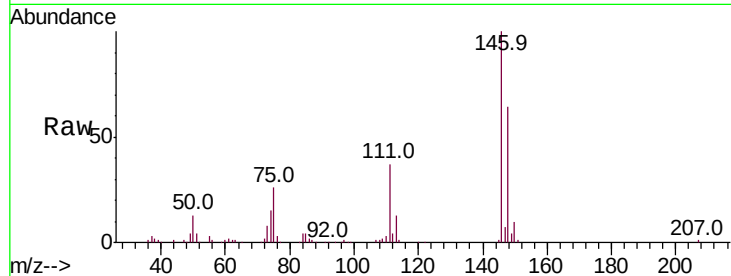
#91
 1,2-Dichlorobenzene
 Concen: 20.612 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0802WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.4	58.4
148	63.7	32.2	96.6

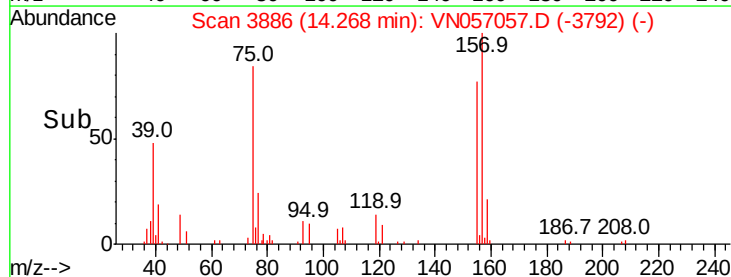
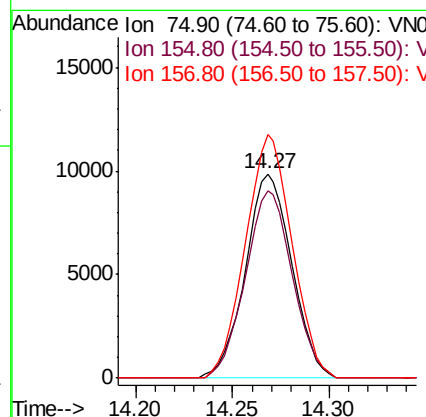
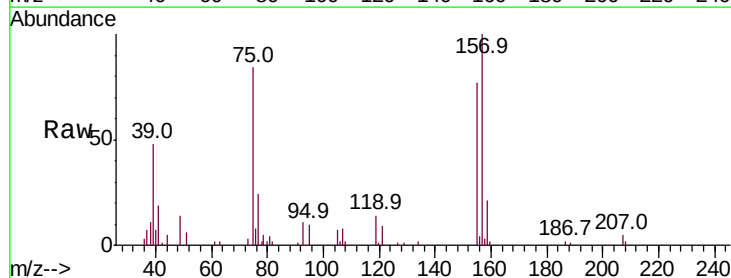
Manual Integrations
 APPROVED

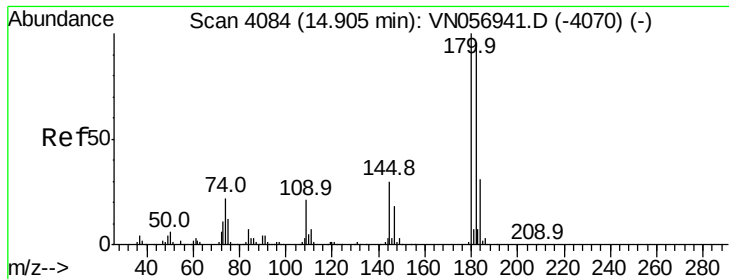
MMDadoda
 8/6/2019 2:16:45 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.699 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN057057.D
 Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.3	50.2	150.6
157	119.3	65.1	195.4





#93

1,2,4-Trichlorobenzene

Concen: 14.580 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN057057.D

Acq: 2 Aug 2019 11:36

Instrument :

MSVOA_N

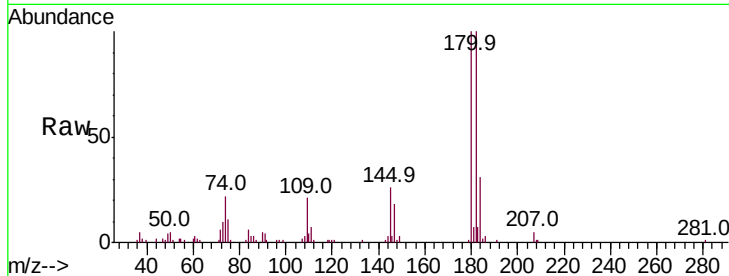
ClientSampleId :

VN0802WBS01

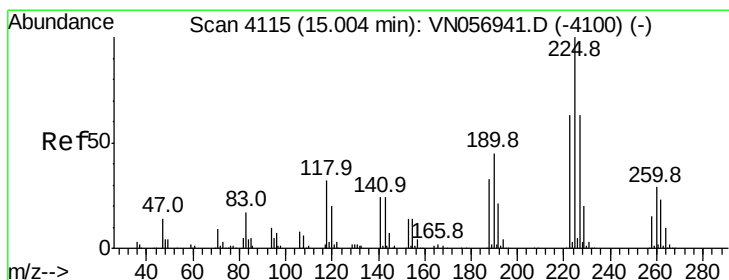
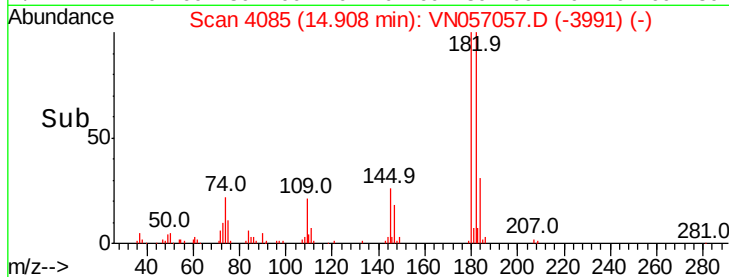
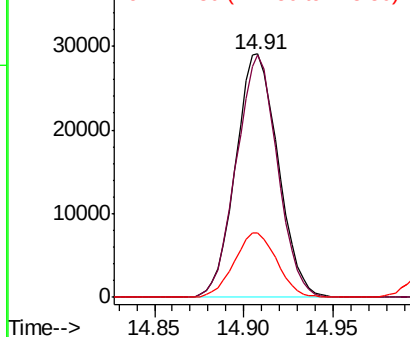
Tot Ion:	180	Resp:	48246
Ion Ratio	Lower	Upper	
180	100		
182	96.0	47.6	142.8
145	26.4	14.2	42.8

Manual Integrations
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8/6/2019 2:16:45 PM



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



#94

Hexachlorobutadiene

Concen: 21.879 ug/l

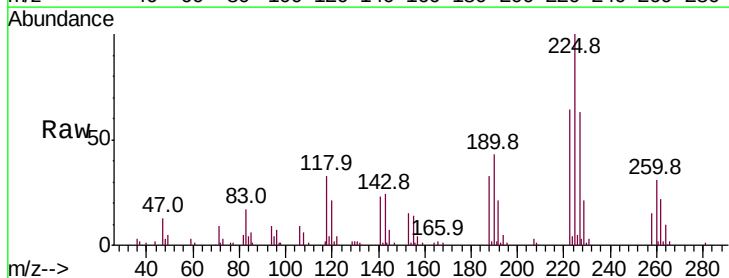
RT: 15.00 min Scan# 4115

Delta R.T. 0.00 min

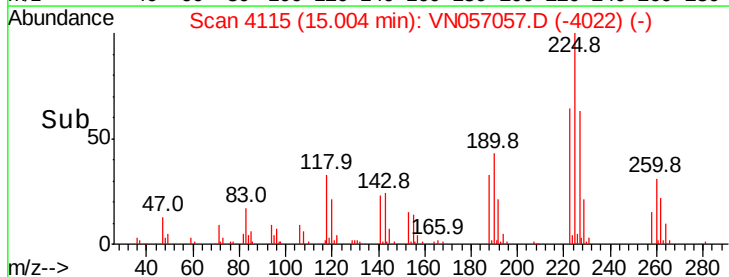
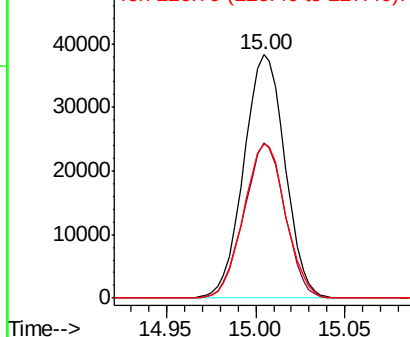
Lab File: VN057057.D

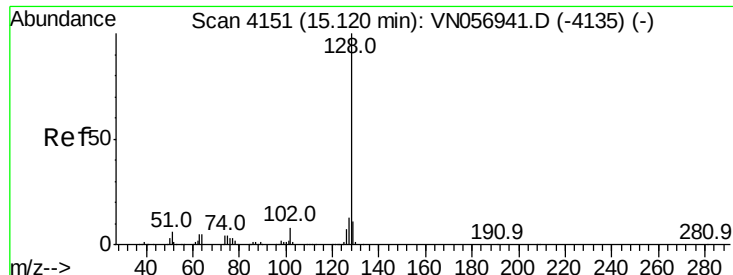
Acq: 2 Aug 2019 11:36

Tgt Ion:	225	Resp:	61815
Ion Ratio	Lower	Upper	
225	100		
223	63.0	30.8	92.4
227	64.3	31.1	93.5



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





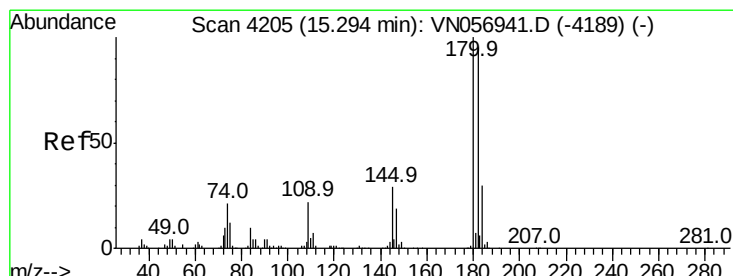
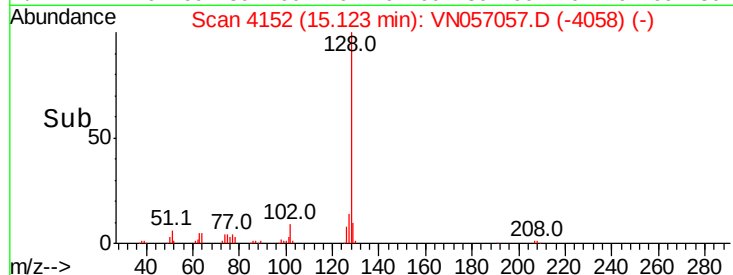
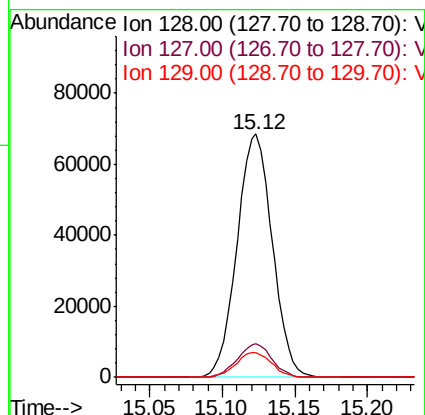
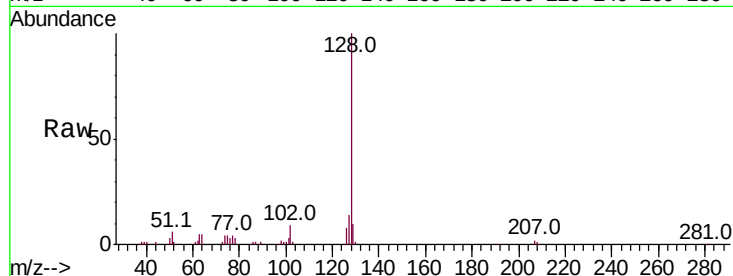
#95
Naphthalene
Concen: 15.055 ug/l
RT: 15.12 min Scan# 4152
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN0802WBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	115834		
127	13.4	10.0	15.0	
129	10.4	8.7	13.1	

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 15.863 ug/l
RT: 15.29 min Scan# 4205
Delta R.T. 0.00 min
Lab File: VN057057.D
Acq: 2 Aug 2019 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	55959		
182	98.7	48.0	144.2	
145	30.6	15.0	45.0	

