

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072719\
 Data File : VN056939.D
 Acq On : 26 Jul 2019 9:25
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 9:13:04 AM

Quant Time: Jul 27 00:39:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 26 23:57:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	588201	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	875008	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	735296	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	245293	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	29522	4.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.76%	
35) Dibromofluoromethane	7.57	113	27294	4.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.84%	
50) Toluene-d8	10.08	98	100937	4.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.58%	
62) 4-Bromofluorobenzene	12.39	95	29872	4.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	8.68%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.84	85	24758	3.990 ug/l	99
3) Chloromethane	2.05	50	33592	4.544 ug/l	95
4) Vinyl Chloride	2.18	62	32661	4.661 ug/l	100
5) Bromomethane	2.54	94	23393	5.527 ug/l	91
6) Chloroethane	2.69	64	19518	5.027 ug/l	99
7) Trichlorofluoromethane	3.00	101	45152	4.941 ug/l	99
8) Diethyl Ether	3.39	74	16568	4.842 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	28939	5.125 ug/l	97
10) Methyl Iodide	3.94	142	34022	4.168 ug/l	99
11) Tert butyl alcohol	4.76	59	19311	22.060 ug/l #	89
12) 1,1-Dichloroethene	3.72	96	26582	4.899 ug/l	95
13) Acrolein	3.59	56	14715	30.518 ug/l	98
14) Allyl chloride	4.30	41	42257	4.792 ug/l	94
15) Acrylonitrile	4.97	53	59491	23.781 ug/l	98
16) Acetone	3.80	43	53541	25.671 ug/l	100
17) Carbon Disulfide	4.03	76	65473	4.499 ug/l	98
18) Methyl Acetate	4.31	43	31942	4.407 ug/l	98
19) Methyl tert-butyl Ether	5.02	73	78344	4.888 ug/l	96
20) Methylene Chloride	4.54	84	32180	4.977 ug/l	95
21) trans-1,2-Dichloroethene	5.02	96	28930	4.985 ug/l	98
22) Diisopropyl ether	5.93	45	89041	4.974 ug/l	94
23) Vinyl Acetate	5.87	43	295422	23.825 ug/l	97
24) 1,1-Dichloroethane	5.82	63	53669	5.095 ug/l	97
25) 2-Butanone	6.82	43	75066	23.454 ug/l	100
26) 2,2-Dichloropropane	6.80	77	38890	5.020 ug/l	97
27) cis-1,2-Dichloroethene	6.81	96	32297	4.875 ug/l	95
28) Bromochloromethane	7.18	49	25511	5.277 ug/l	98
29) Tetrahydrofuran	7.19	42	49667	23.723 ug/l	97
30) Chloroform	7.36	83	54532	5.028 ug/l	92
31) Cyclohexane	7.64	56	55639	5.430 ug/l #	74
32) 1,1,1-Trichloroethane	7.55	97	42796	4.937 ug/l	99
36) 1,1-Dichloropropene	7.78	75	39265	4.972 ug/l	99
37) Ethyl Acetate	6.91	43	31085	4.795 ug/l #	79
38) Carbon Tetrachloride	7.76	117	35512	4.723 ug/l	94

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 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC005

Manual Integrations
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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.07	83	49870	5.166	ug/l	95
40) Benzene	8.03	78	125466	5.115	ug/l	98
41) Methacrylonitrile	7.16	41	13183	4.571	ug/l #	74
42) 1,2-Dichloroethane	8.11	62	37902	5.010	ug/l	100
43) Isopropyl Acetate	8.15	43	49929	4.708	ug/l	93
44) Trichloroethene	8.82	130	34603	5.190	ug/l	97
45) 1,2-Dichloropropane	9.11	63	32980	5.015	ug/l	99
46) Dibromomethane	9.20	93	19465	4.901	ug/l	97
47) Bromodichloromethane	9.39	83	37359	4.812	ug/l	99
48) Methyl methacrylate	9.19	41	23125	4.566	ug/l	98
49) 1,4-Dioxane	9.19	88	8903	84.952	ug/l #	87
51) 4-Methyl-2-Pentanone	9.98	43	145481	23.072	ug/l	99
52) Toluene	10.15	92	73098	4.982	ug/l	97
53) t-1,3-Dichloropropene	10.37	75	35966	4.582	ug/l	97
54) cis-1,3-Dichloropropene	9.83	75	43045	4.675	ug/l	96
55) 1,1,2-Trichloroethane	10.55	97	29612	5.013	ug/l	97
56) Ethyl methacrylate	10.42	69	35944	4.509	ug/l	99
57) 1,3-Dichloropropane	10.70	76	48520	5.027	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.68	63	73435	23.200	ug/l	100
59) 2-Hexanone	10.74	43	94554	21.826	ug/l	98
60) Dibromochloromethane	10.89	129	26816	4.449	ug/l	94
61) 1,2-Dibromoethane	10.99	107	27395	4.688	ug/l	97
64) Tetrachloroethene	10.62	164	36133	5.501	ug/l	94
65) Chlorobenzene	11.42	112	77944	5.138	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.50	131	28295	4.996	ug/l	98
67) Ethyl Benzene	11.50	91	131395	5.032	ug/l	100
68) m/p-Xylenes	11.62	106	97076	9.983	ug/l	100
69) o-Xylene	11.94	106	47462	4.988	ug/l	99
70) Styrene	11.96	104	71970	4.775	ug/l	100
71) Bromoform	12.12	173	18008	4.531	ug/l #	99
73) Isopropylbenzene	12.24	105	127405	5.795	ug/l	100
74) N-amyl acetate	12.06	43	30090	4.635	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	36054	5.628	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	29059m	6.050	ug/l	
77) Bromobenzene	12.52	156	31699	5.630	ug/l	98
78) n-propylbenzene	12.58	91	125793	5.415	ug/l	99
79) 2-Chlorotoluene	12.67	91	81462	5.633	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	103820	5.718	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.29	75	6558	4.210	ug/l #	76
82) 4-Chlorotoluene	12.77	91	73062	5.505	ug/l	100
83) tert-Butylbenzene	12.99	119	90713	5.663	ug/l	99
84) 1,2,4-Trimethylbenzene	13.03	105	98542	5.739	ug/l	98
85) sec-Butylbenzene	13.17	105	118039	5.835	ug/l	100
86) p-Isopropyltoluene	13.28	119	100959	5.641	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	44781	5.324	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	41838	5.179	ug/l	94
89) n-Butylbenzene	13.61	91	72397	5.234	ug/l	98
90) Hexachloroethane	13.87	117	16662	5.226	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	45654	5.354	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	3755	4.291	ug/l	90

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

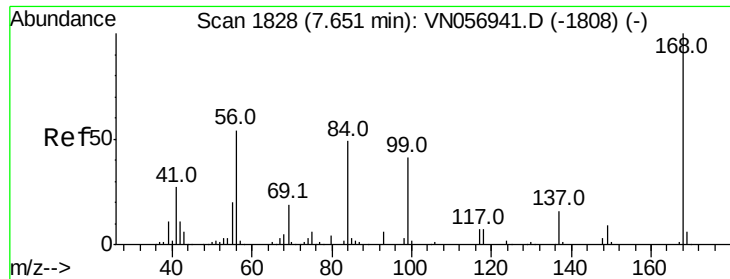
Manual Integrations
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Quant Title : SW846 8260
QLast Update : Fri Jul 26 23:57:36 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	12909	3.628	ug/l	98
94) Hexachlorobutadiene	15.00	225	21613	6.248	ug/l	94
95) Naphthalene	15.12	128	28119	3.172	ug/l	99
96) 1,2,3-Trichlorobenzene	15.29	180	14465	3.787	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion:168 Resp: 588201

Ion Ratio Lower Upper

168 100

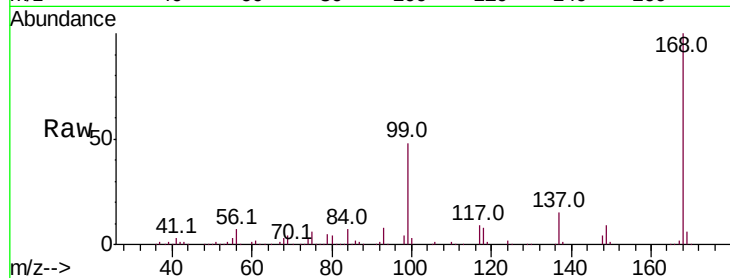
99 48.3 39.0 58.4

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

250000

200000

150000

100000

50000

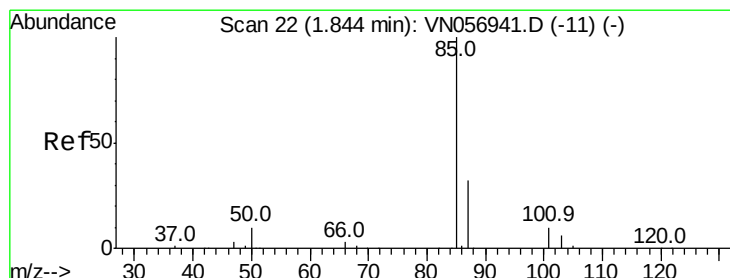
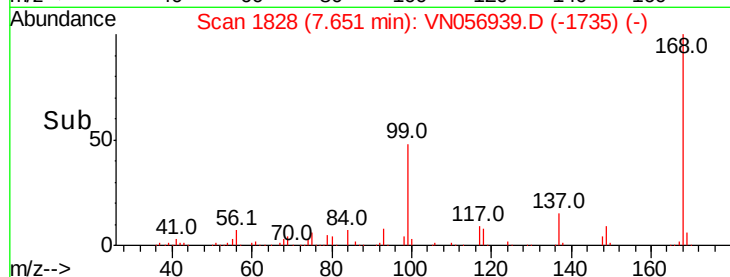
0

7.65

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 3.990 ug/l

RT: 1.84 min Scan# 22

Delta R.T. 0.00 min

Lab File: VN056939.D

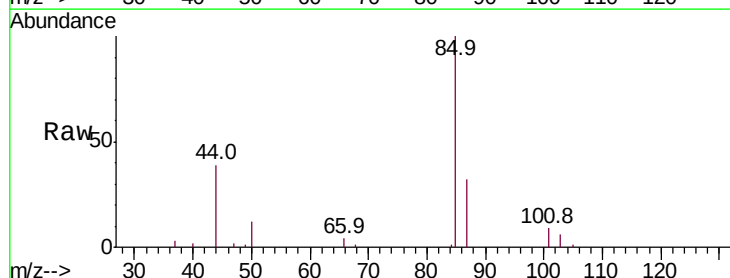
Acq: 26 Jul 2019 9:25

Tgt Ion: 85 Resp: 24758

Ion Ratio Lower Upper

85 100

87 32.0 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

20000

15000

10000

5000

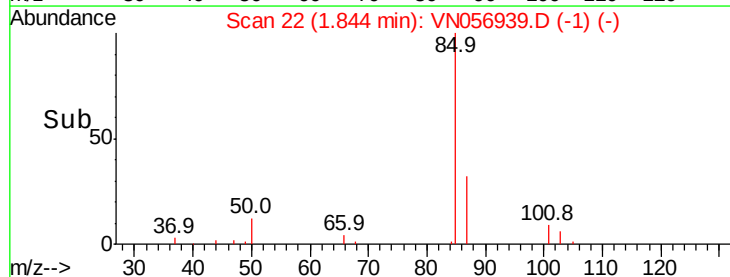
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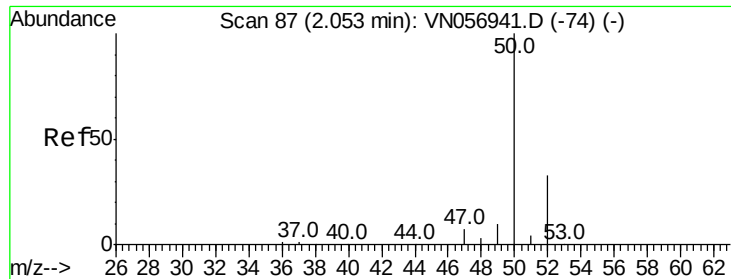
1.84

1.80

1.90

Time-->





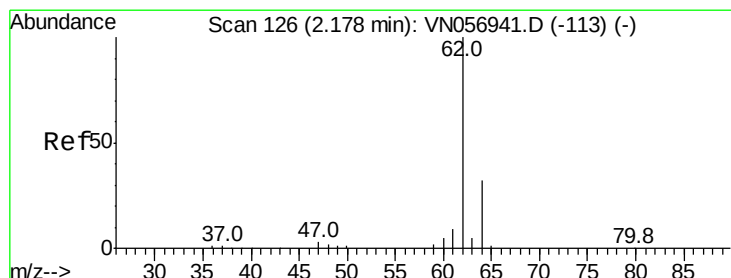
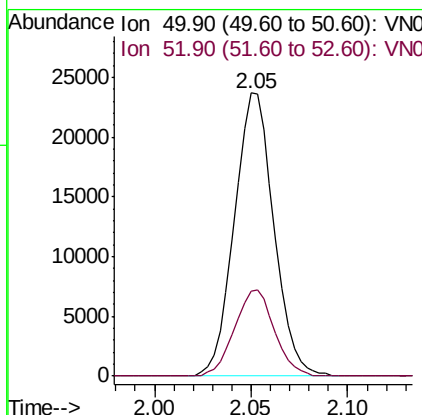
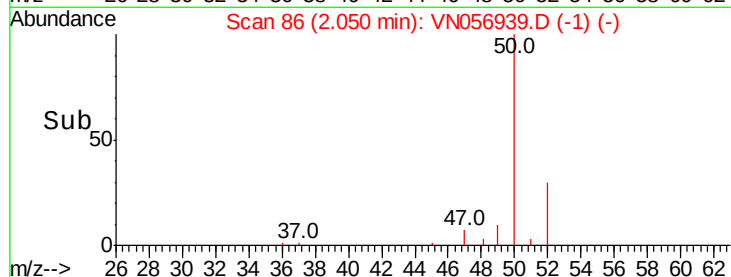
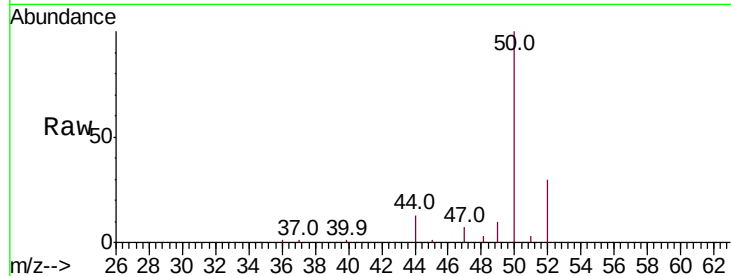
#3
Chloromethane
Concen: 4.544 ug/l
RT: 2.05 min Scan# 86
Delta R.T. -0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
50	100		
52	30.0	26.2	39.2

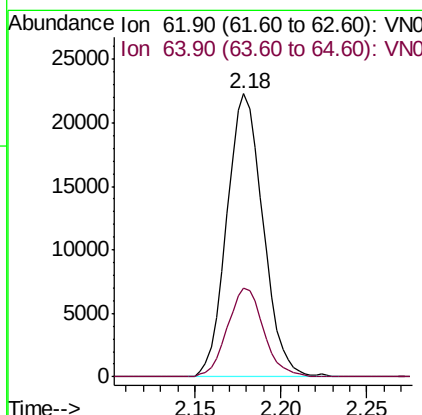
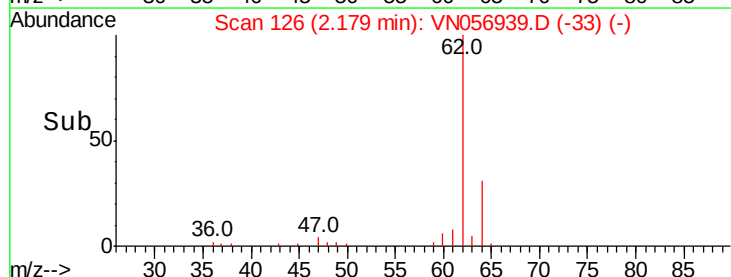
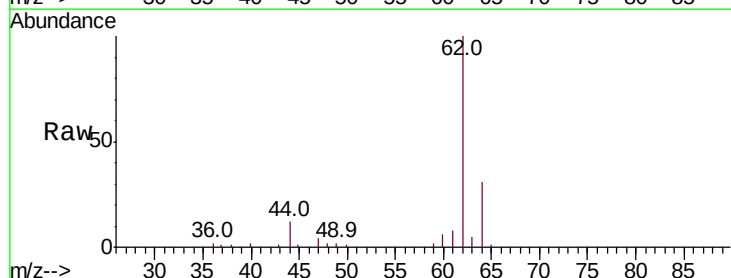
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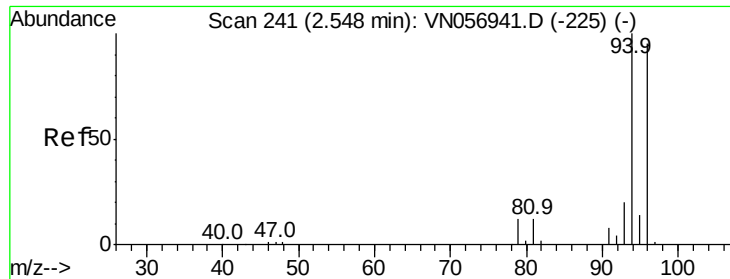
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#4
Vinyl Chloride
Concen: 4.661 ug/l
RT: 2.18 min Scan# 126
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.4	38.0





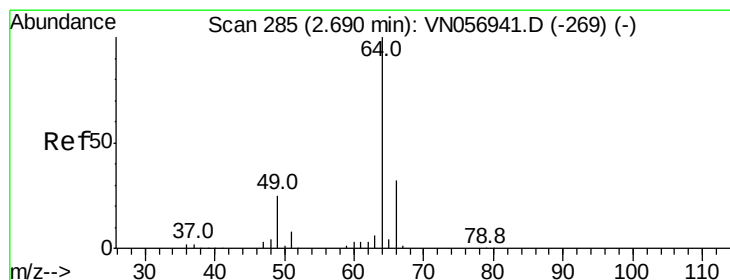
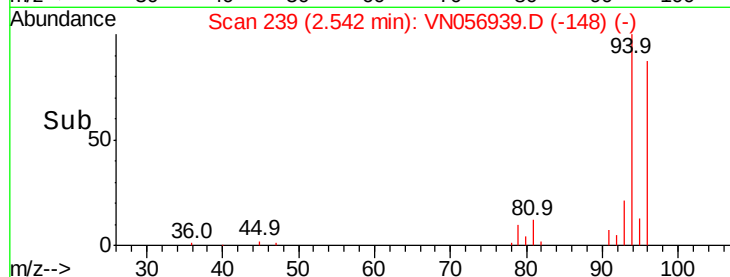
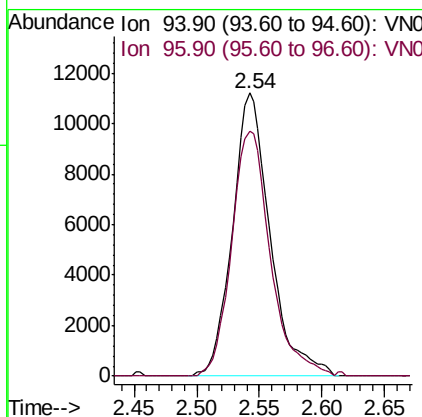
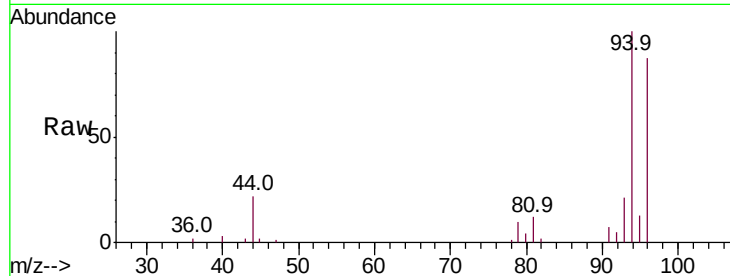
#5
Bromomethane
Concen: 5.527 ug/l
RT: 2.54 min Scan# 239
Delta R.T. -0.01 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 94 Resp: 23393
Ion Ratio Lower Upper
94 100
96 86.7 76.2 114.2

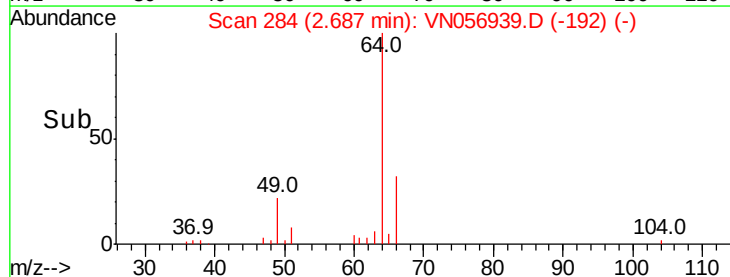
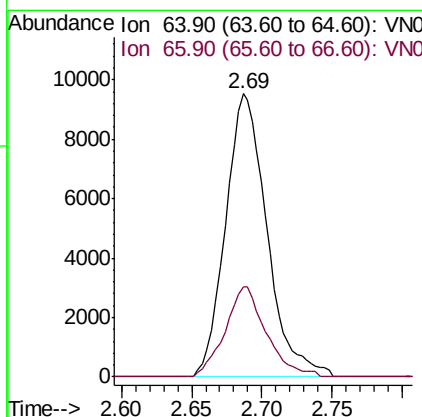
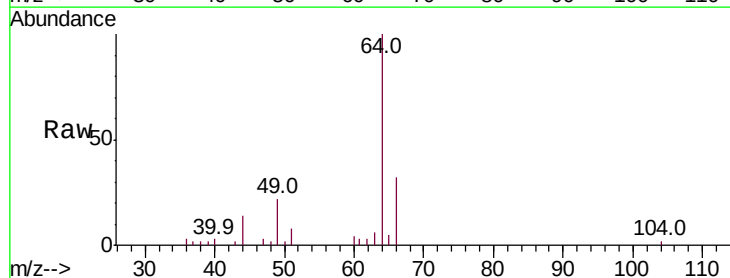
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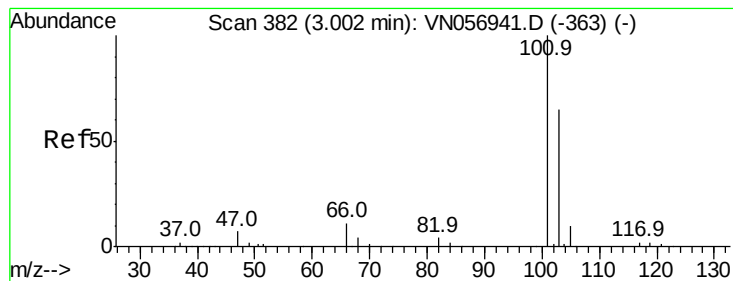
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#6
Chloroethane
Concen: 5.027 ug/l
RT: 2.69 min Scan# 284
Delta R.T. -0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion: 64 Resp: 19518
Ion Ratio Lower Upper
64 100
66 31.7 25.8 38.8





#7

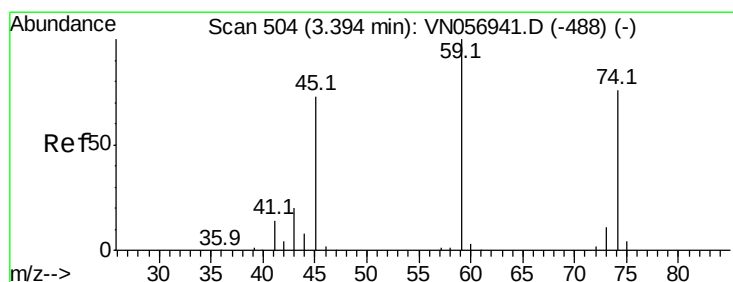
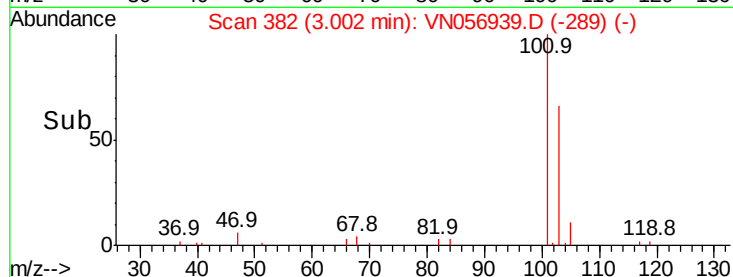
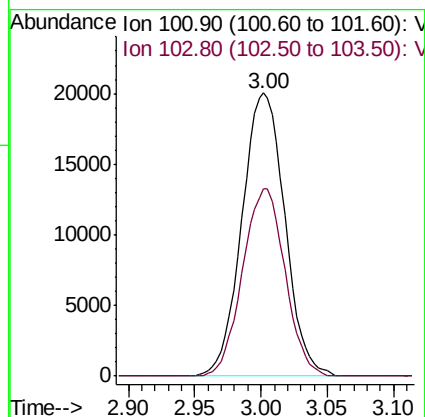
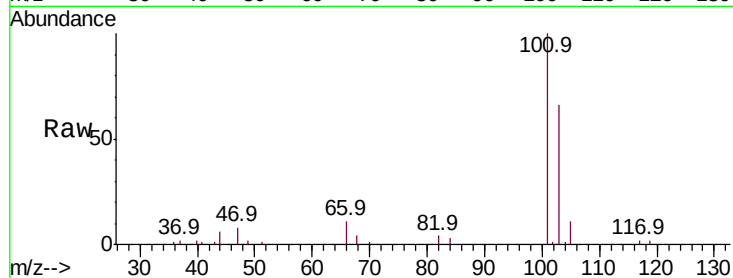
Trichlorofluoromethane
Concen: 4.941 ug/l
RT: 3.00 min Scan# 382
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:101 Resp: 45152
Ion Ratio Lower Upper
101 100
103 66.2 52.1 78.1

Manual Integrations
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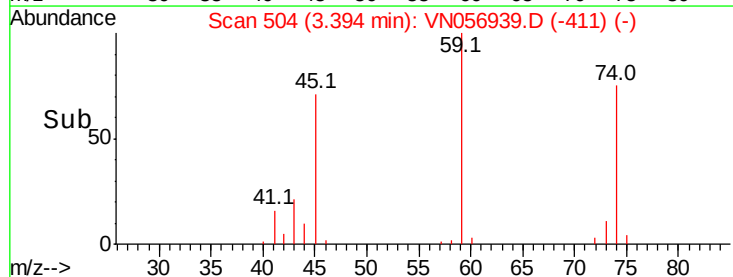
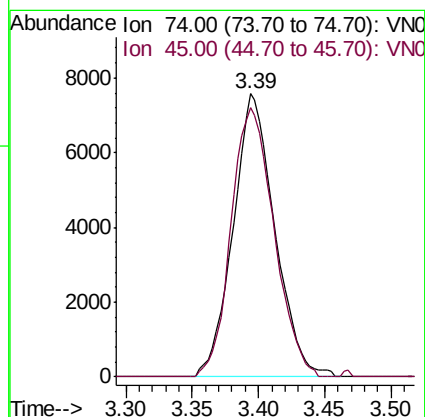
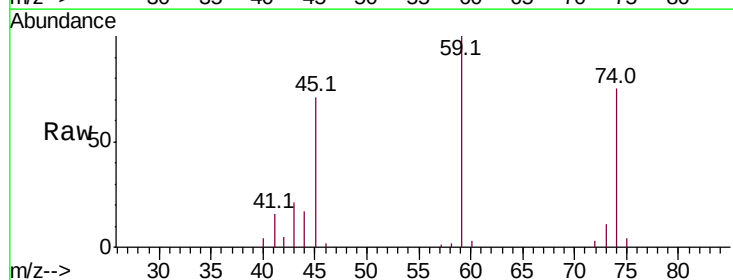
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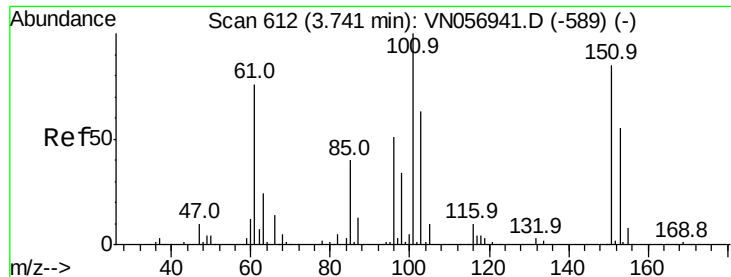


#8

Diethyl Ether
Concen: 4.842 ug/l
RT: 3.39 min Scan# 504
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion: 74 Resp: 16568
Ion Ratio Lower Upper
74 100
45 97.8 48.1 144.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.125 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Instrument :

MSVOA_N

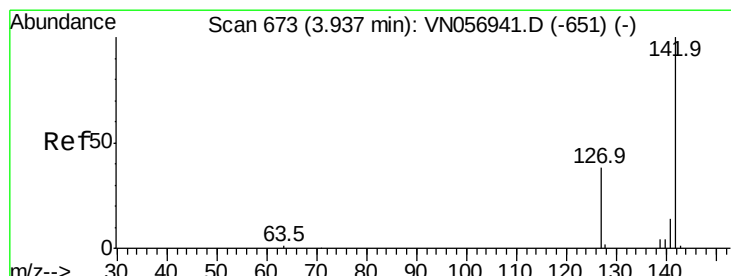
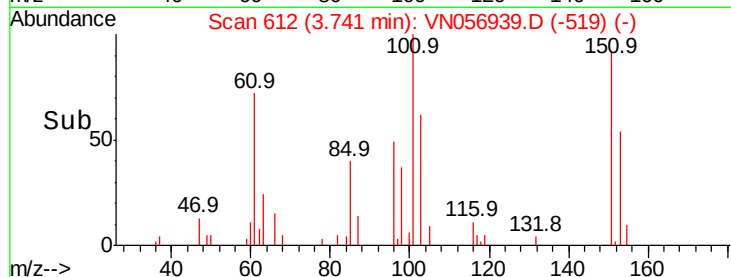
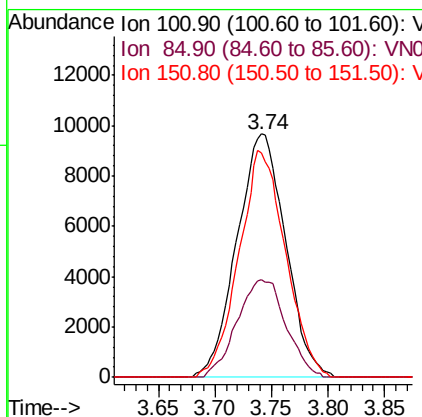
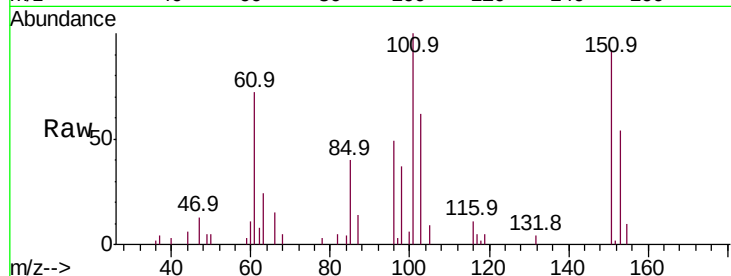
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	28939
Ion Ratio	Lower	Upper	
101	100		
85	40.3	32.3	48.5
151	89.1	68.0	102.0

Manual Integrations
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#10

Methyl Iodide

Concen: 4.168 ug/l

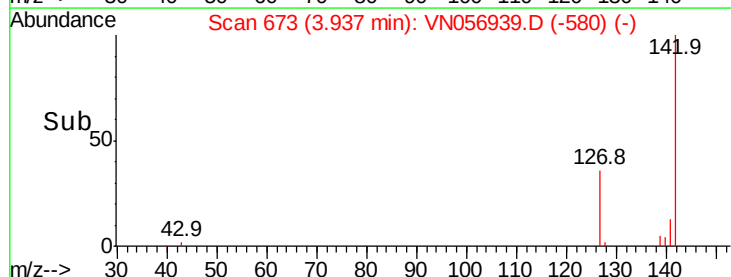
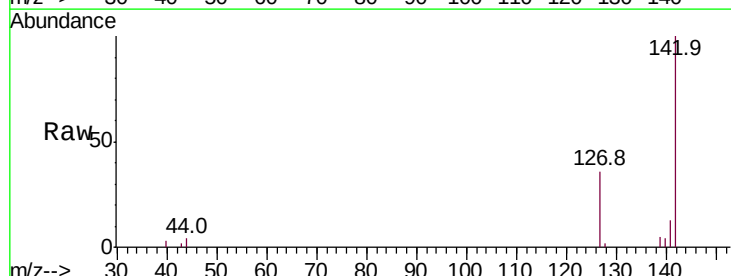
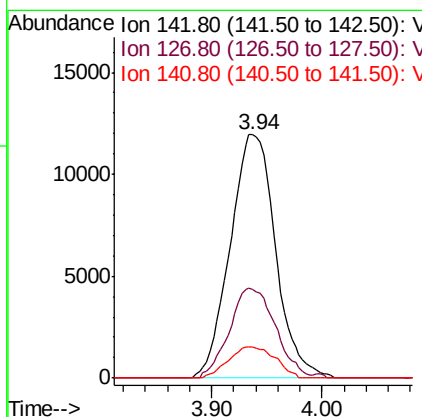
RT: 3.94 min Scan# 673

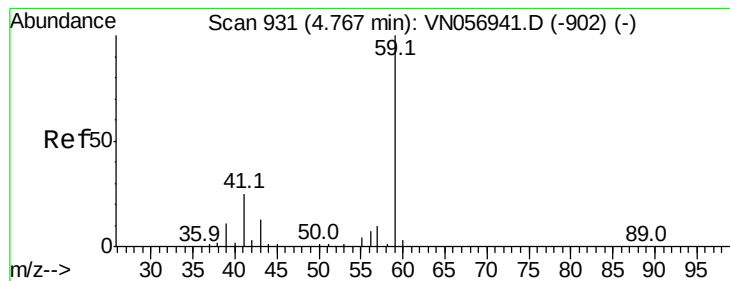
Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Tgt Ion:	142	Resp:	34022
Ion Ratio	Lower	Upper	
142	100		
127	37.4	30.4	45.6
141	13.2	11.1	16.7





#11

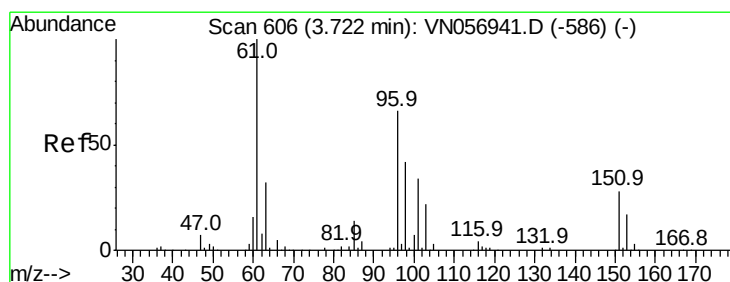
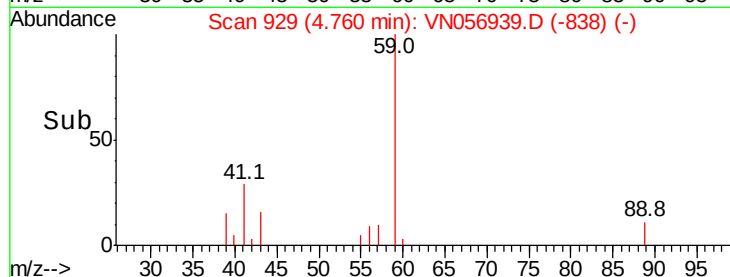
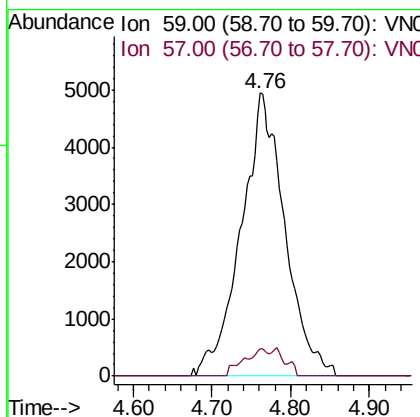
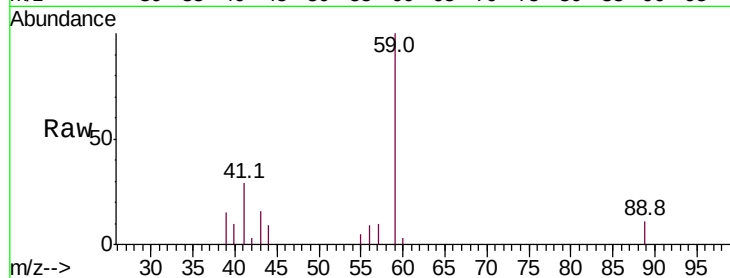
Tert butyl alcohol
 Concen: 22.060 ug/l
 RT: 4.76 min Scan# 929
 Delta R.T. -0.01 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	59	57	Ratio	100	5.5	Resp	19311	Lower	Upper
Ion	59	57	Ratio	100	5.5	Resp	19311	Lower	Upper
								7.5	11.3#

Manual Integrations
 APPROVED

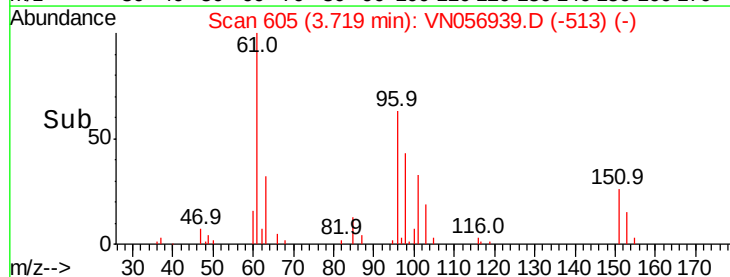
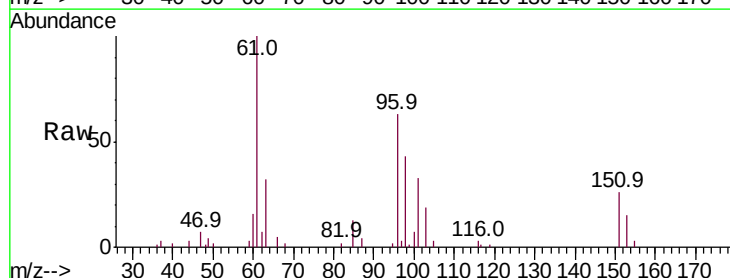
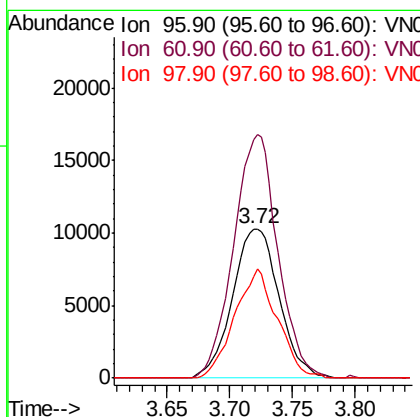
MMDadoda
 8/2/2019 9:13:04 AM

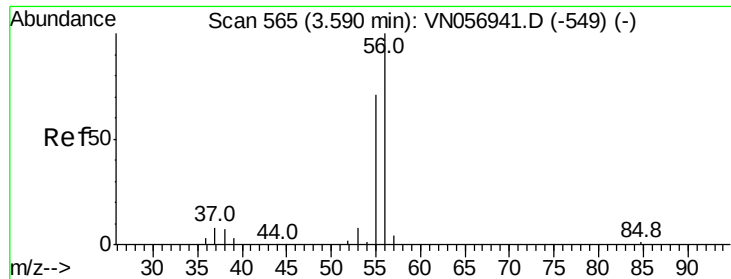


#12

1,1-Dichloroethene
 Concen: 4.899 ug/l
 RT: 3.72 min Scan# 605
 Delta R.T. -0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Tgt Ion	96	61	98	Ratio	100	159.3	68.3	Resp	26582	Lower	Upper
Ion	96	61	98	Ratio	100	159.3	68.3	Resp	26582	Lower	Upper
										121.8	182.8
										51.7	77.5





#13

Acrolein

Concen: 30.518 ug/l

RT: 3.59 min Scan# 565

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 14715

Ion Ratio Lower Upper

56 100

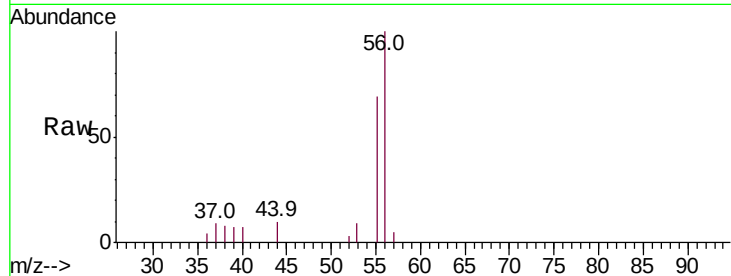
55 67.7 55.8 83.6

Manual Integrations

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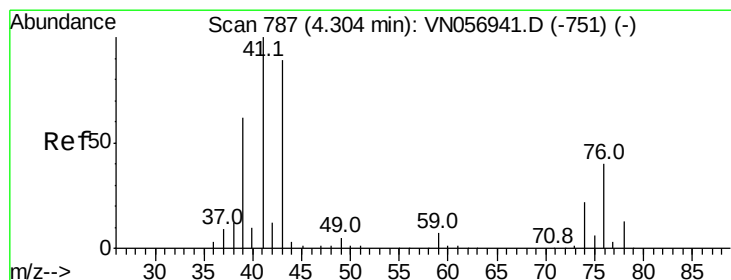
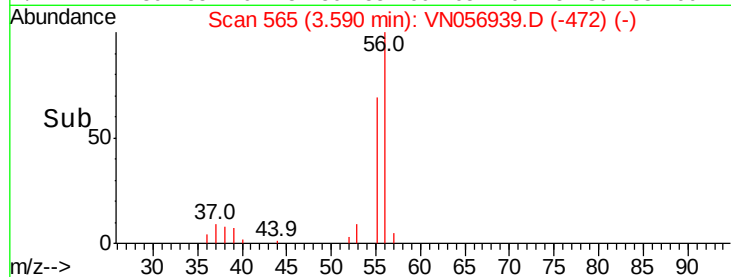
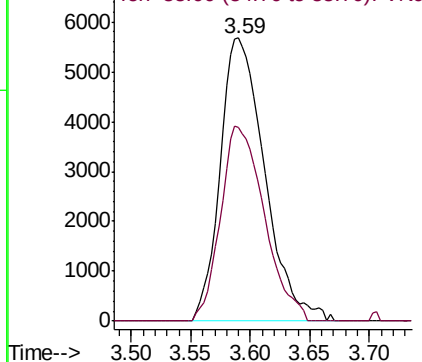
MMDadoda

8/2/2019 9:13:04 AM



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



#14

Allyl chloride

Concen: 4.792 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

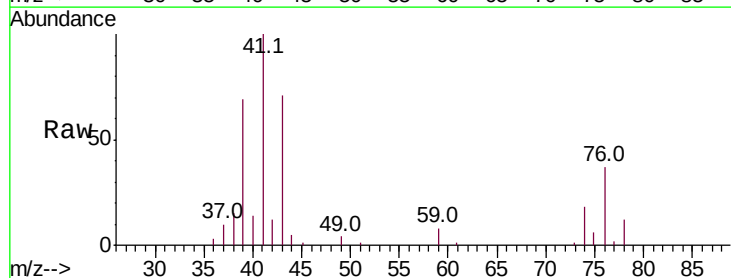
Tgt Ion: 41 Resp: 42257

Ion Ratio Lower Upper

41 100

39 63.6 46.4 69.6

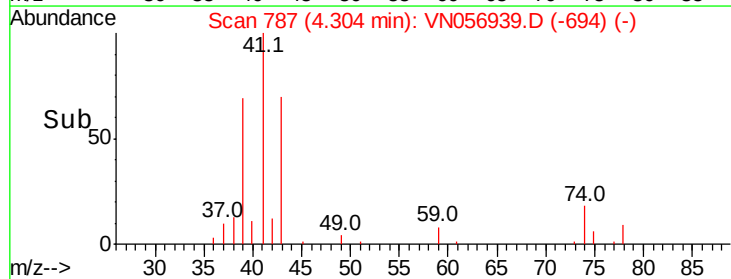
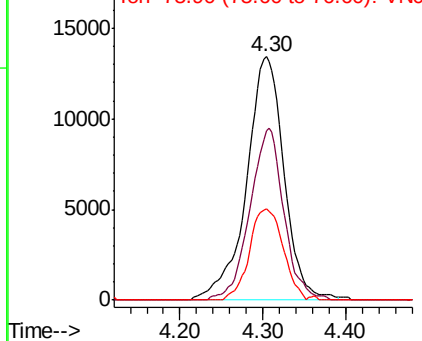
76 33.5 28.4 42.6

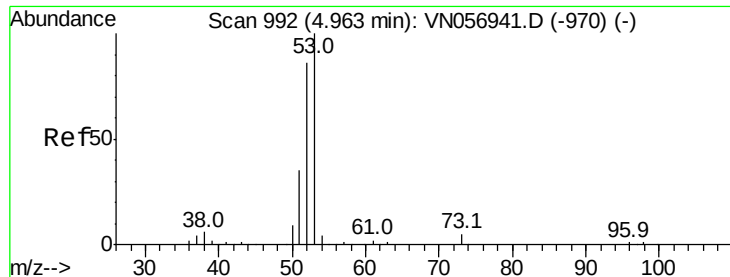


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#15

Acrylonitrile

Concen: 23.781 ug/l

RT: 4.97 min Scan# 993

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Instrument :

MSVOA_N

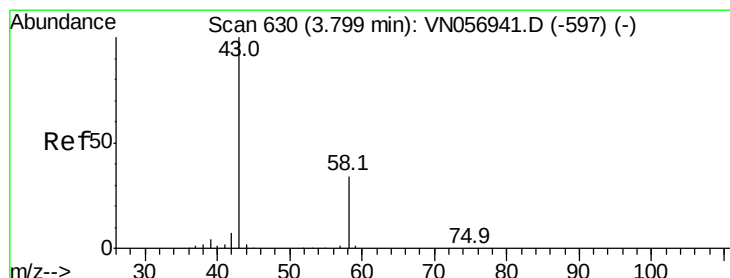
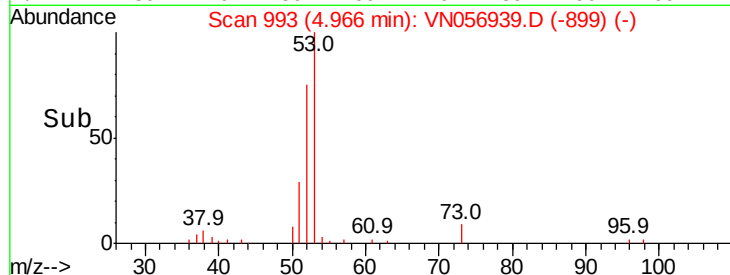
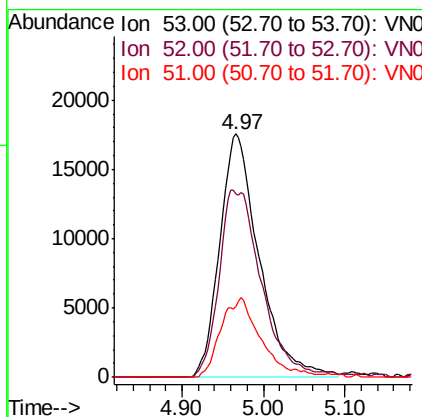
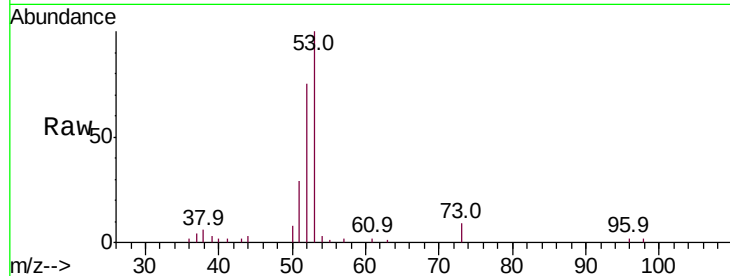
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	59491
Ion	Ratio	Lower	Upper
53	100		
52	81.9	66.5	99.7
51	33.3	28.4	42.6

Manual Integrations
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#16

Acetone

Concen: 25.671 ug/l

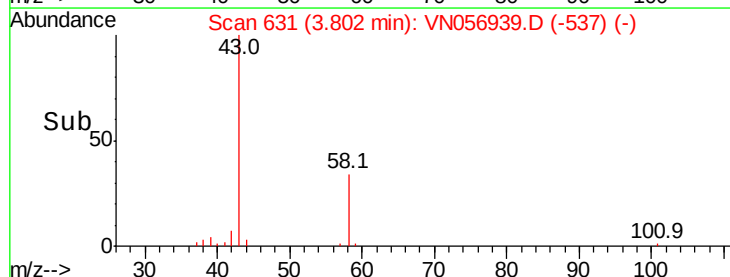
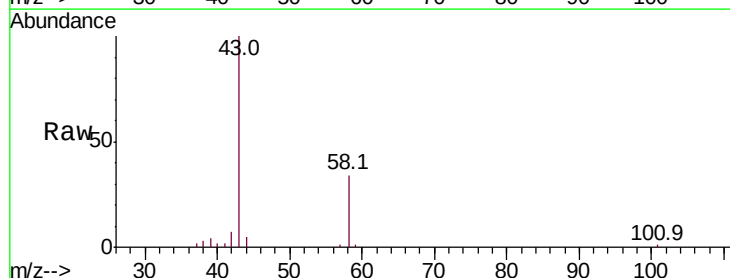
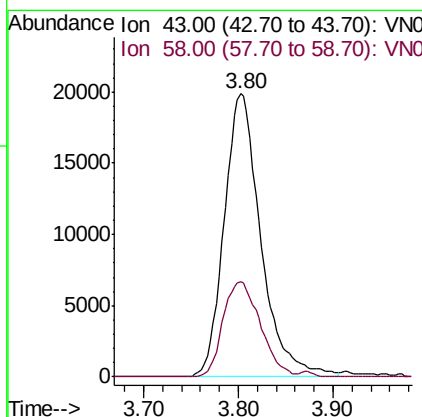
RT: 3.80 min Scan# 631

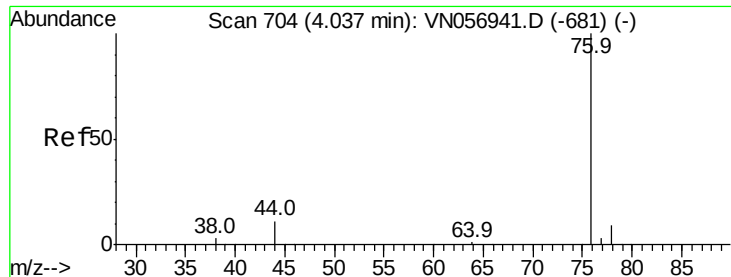
Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Tgt Ion:	43	Resp:	53541
Ion	Ratio	Lower	Upper
43	100		
58	33.8	27.2	40.8





#17

Carbon Disulfide

Concen: 4.499 ug/l

RT: 4.03 min Scan# 703

Delta R.T. -0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 76 Resp: 65473

Ion Ratio Lower Upper

76 100

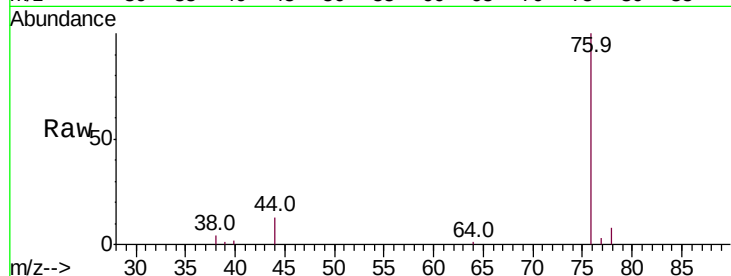
78 8.3 7.2 10.8

Manual Integrations

APPROVED

MMDadoda

8/2/2019 9:13:04 AM



Abundance Ion 75.90 (75.60 to 76.60): VN056939.D (-681) (-)

Ion 77.90 (77.60 to 78.60): VN056939.D (-681) (-)

4.03

25000

20000

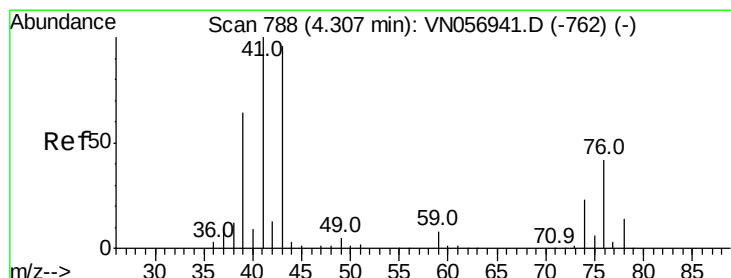
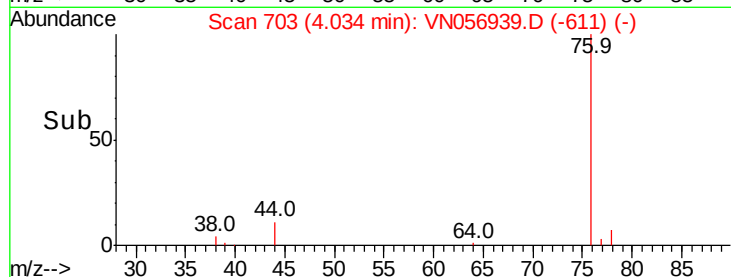
15000

10000

5000

0

Time-->



#18

Methyl Acetate

Concen: 4.407 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.00 min

Lab File: VN056939.D

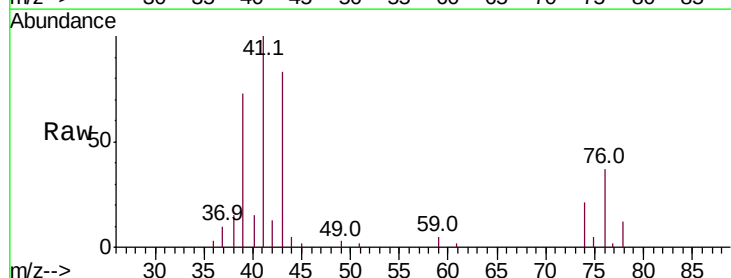
Acq: 26 Jul 2019 9:25

Tgt Ion: 43 Resp: 31942

Ion Ratio Lower Upper

43 100

74 23.7 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VN056939.D (-695) (-)

Ion 74.00 (73.70 to 74.70): VN056939.D (-695) (-)

4.31

12000

10000

8000

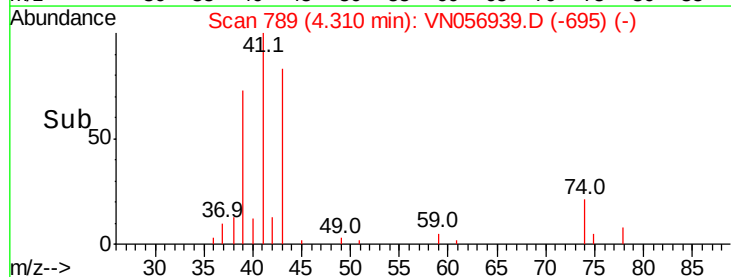
6000

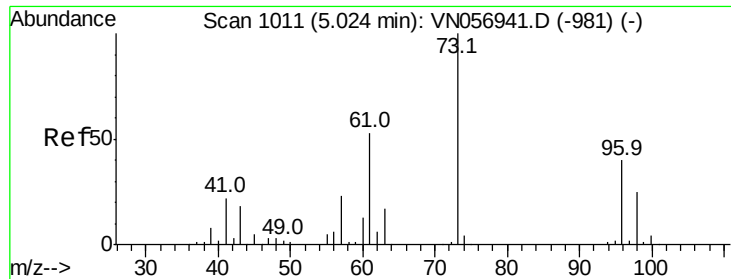
4000

2000

0

Time-->





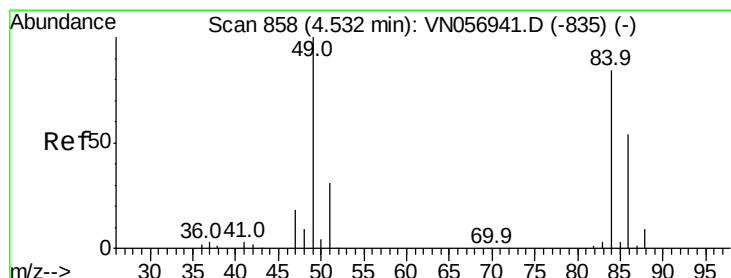
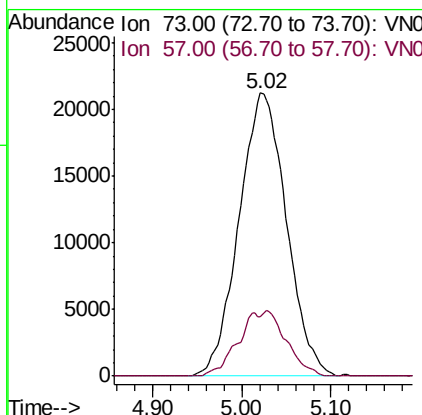
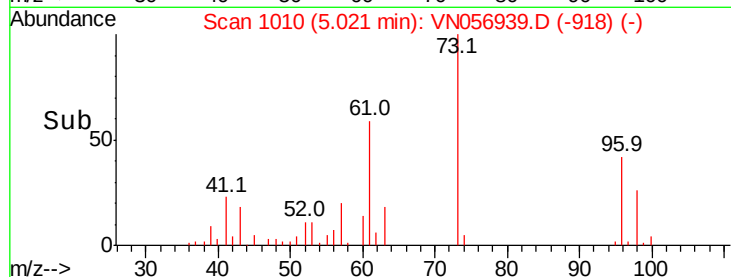
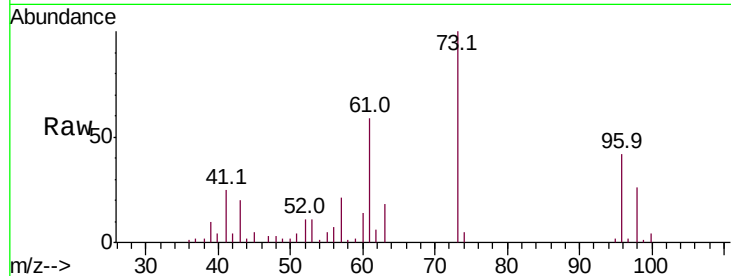
#19
Methyl tert-butyl Ether
Concen: 4.888 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. -0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 73 Resp: 78344
Ion Ratio Lower Upper
73 100
57 20.9 18.3 27.5

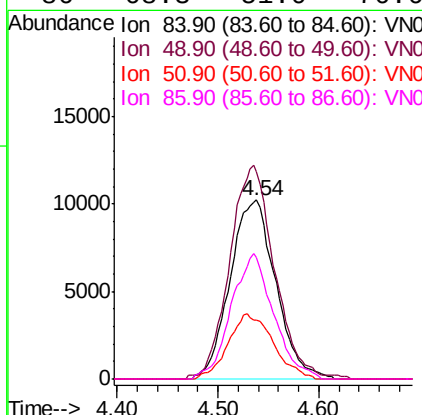
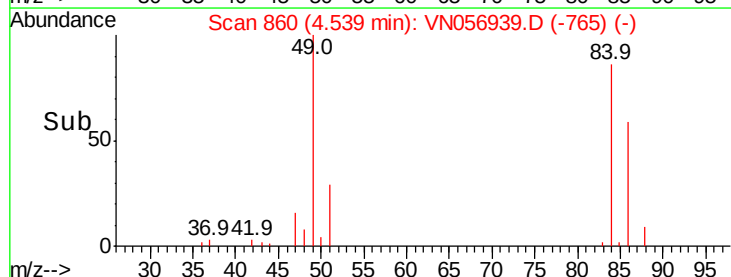
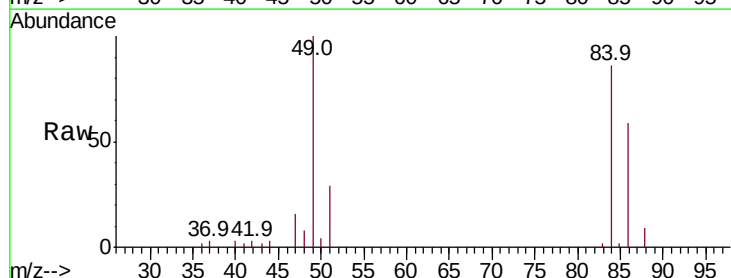
Manual Integrations
APPROVED

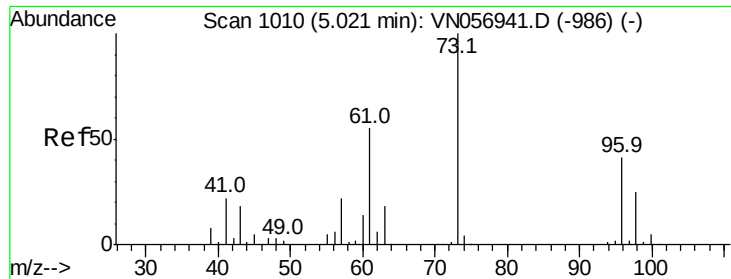
MMDadoda
8/2/2019 9:13:04 AM



#20
Methylene Chloride
Concen: 4.977 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion: 84 Resp: 32180
Ion Ratio Lower Upper
84 100
49 114.5 95.2 142.8
51 33.2 29.7 44.5
86 68.3 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 4.985 ug/l

RT: 5.02 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Instrument :

MSVOA_N

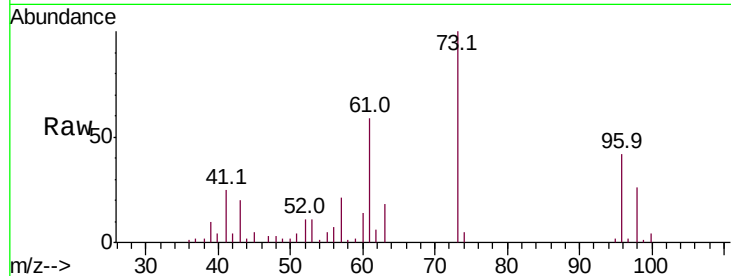
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	28930
Ion	Ratio	Lower	Upper
96	100		
61	137.8	107.5	161.3
98	63.0	49.9	74.9

Manual Integrations
APPROVED

MMDadoda
8/2/2019 9:13:04 AM

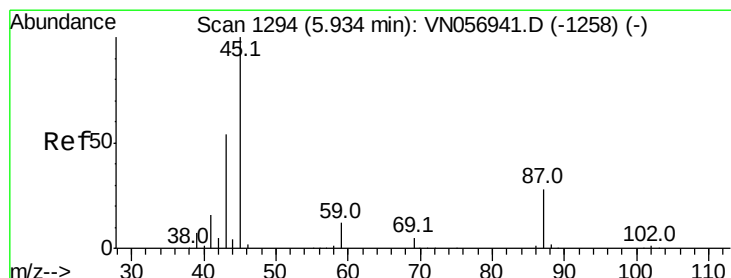
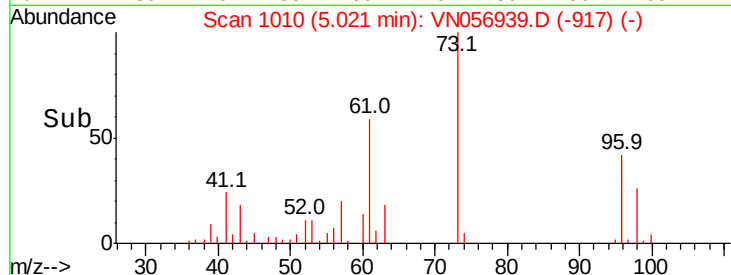
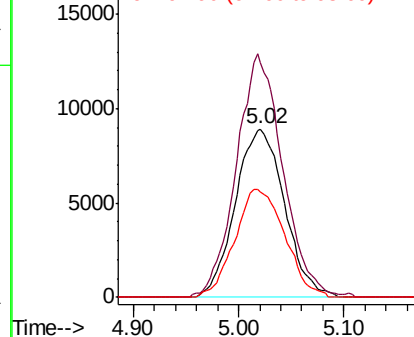


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 4.974 ug/l

RT: 5.93 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Tgt Ion:	45	Resp:	89041
Ion	Ratio	Lower	Upper
45	100		
43	63.1	44.7	67.1
87	29.4	23.0	34.6
59	12.1	9.8	14.8

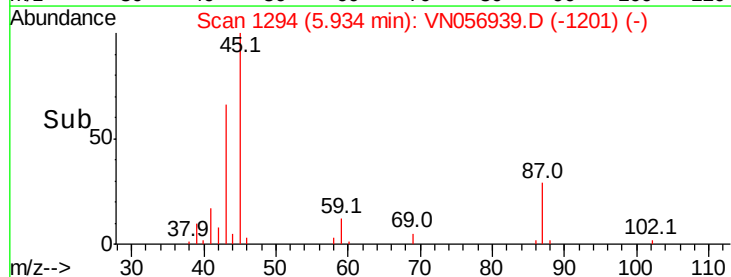
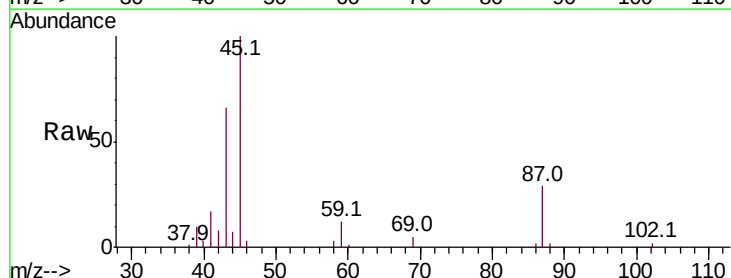
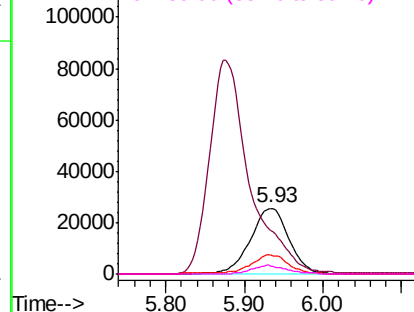
Abundance

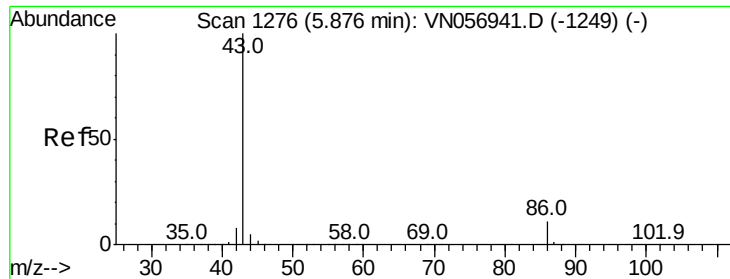
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 23.825 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 295422

Ion Ratio Lower Upper

43 100

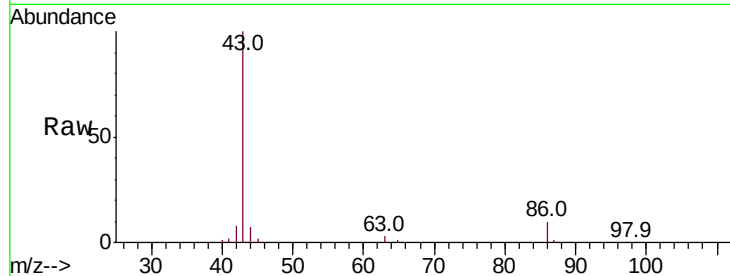
86 9.6 8.5 12.7

Manual Integrations

APPROVED

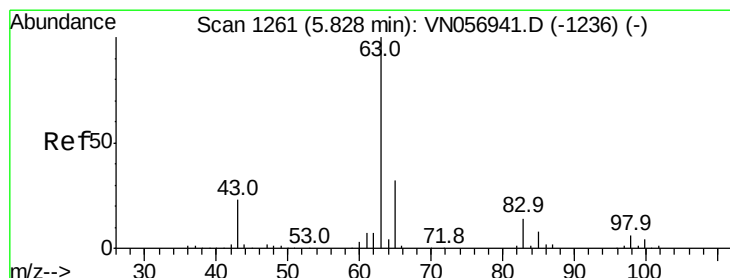
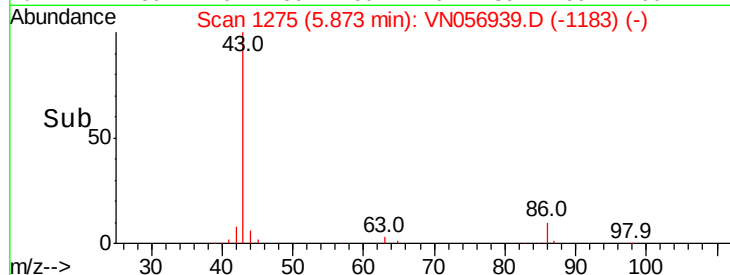
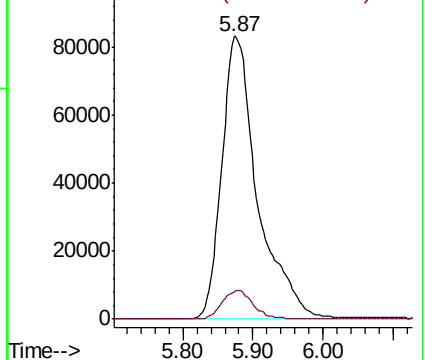
MMDadoda

8/2/2019 9:13:04 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 5.095 ug/l

RT: 5.82 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

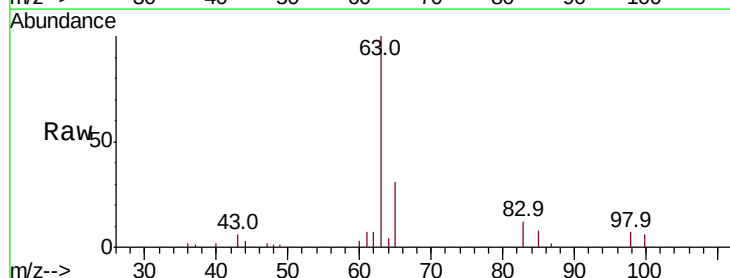
Tgt Ion: 63 Resp: 53669

Ion Ratio Lower Upper

63 100

98 7.0 3.2 9.6

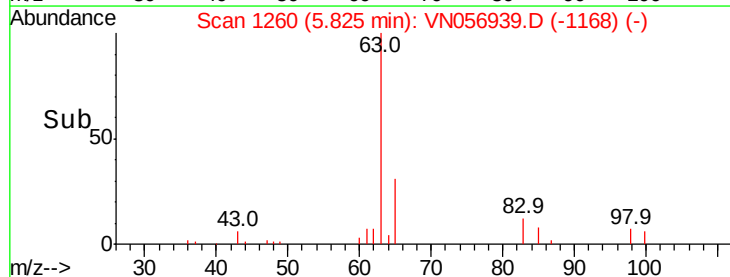
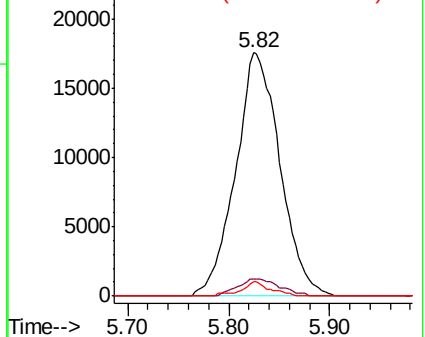
100 5.8 2.1 6.3

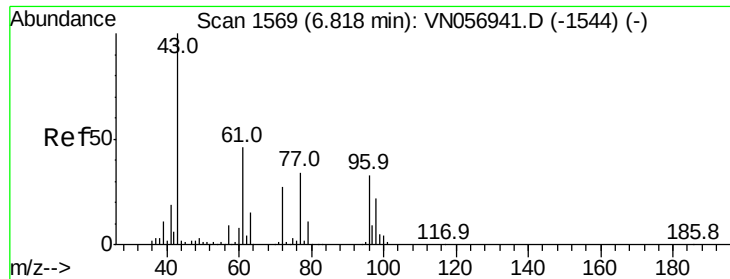


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 23.454 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 75066

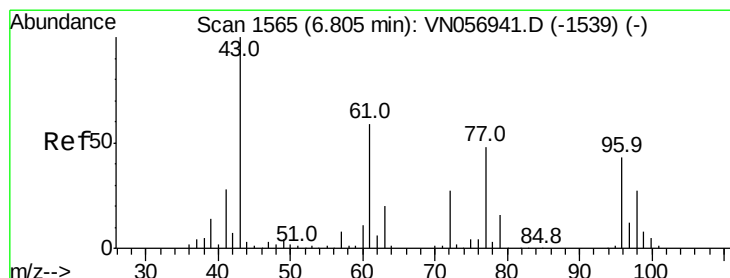
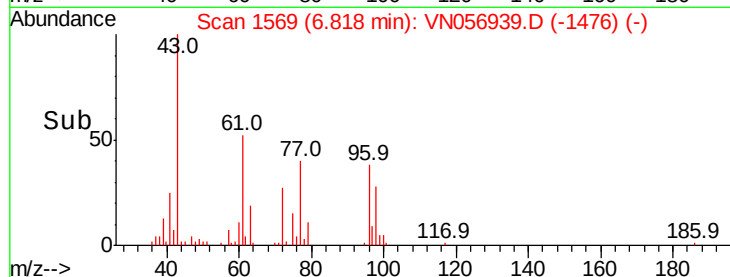
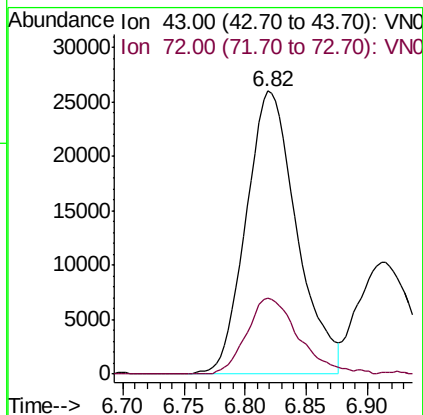
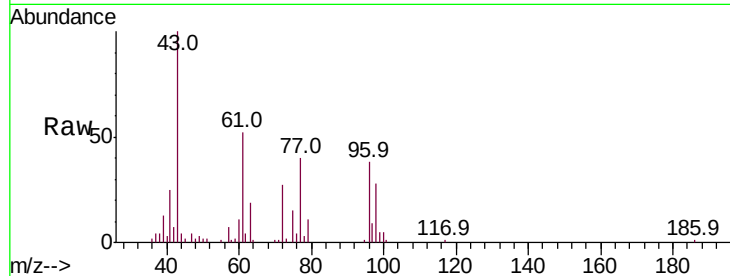
Ion Ratio Lower Upper

43 100

72 26.8 21.5 32.3

Manual Integrations
APPROVED

MMDadoda
8/2/2019 9:13:04 AM



#26

2,2-Dichloropropane

Concen: 5.020 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN056939.D

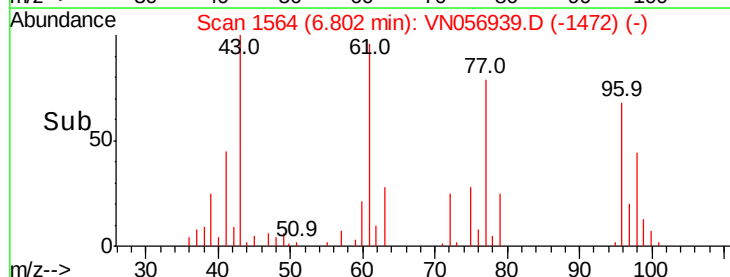
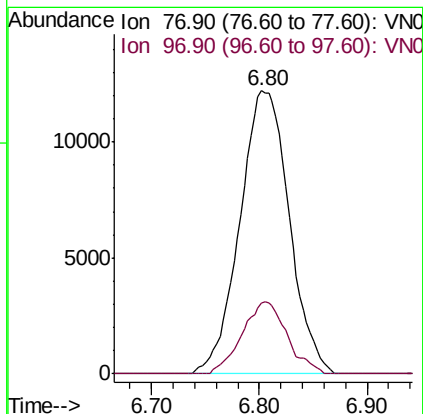
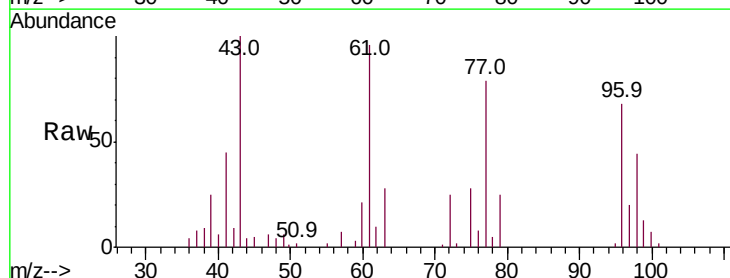
Acq: 26 Jul 2019 9:25

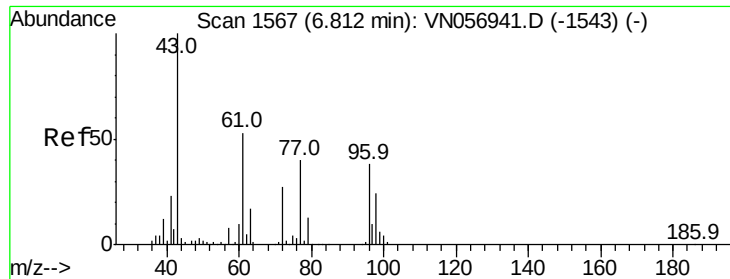
Tgt Ion: 77 Resp: 38890

Ion Ratio Lower Upper

77 100

97 23.1 12.2 36.6





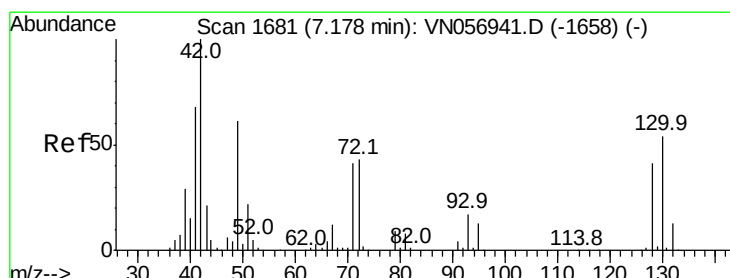
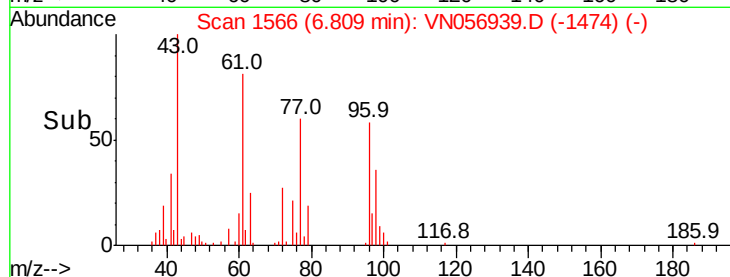
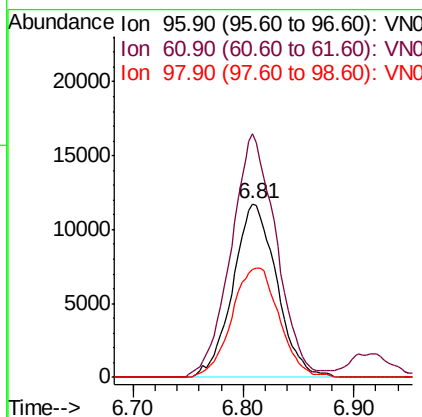
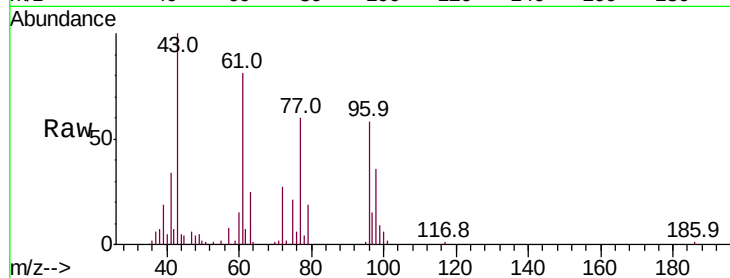
#27
 cis-1,2-Dichloroethene
 Concen: 4.875 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	144.5	0.0	277.2	
98	68.1	0.0	128.4	

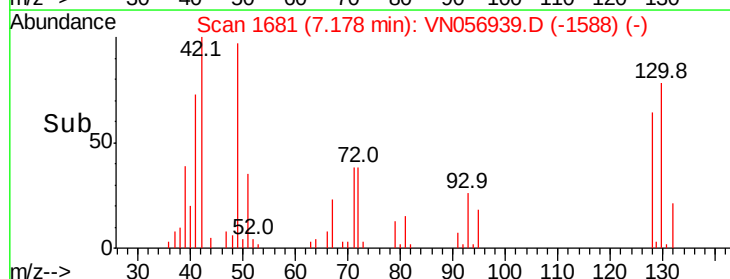
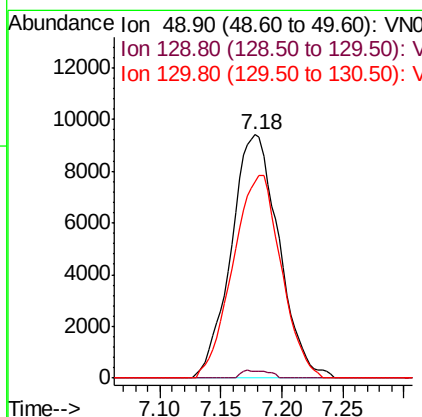
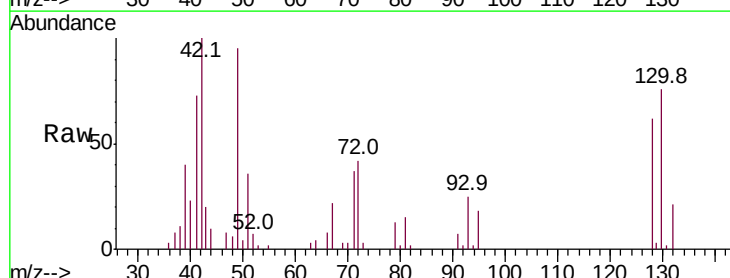
Manual Integrations
 APPROVED

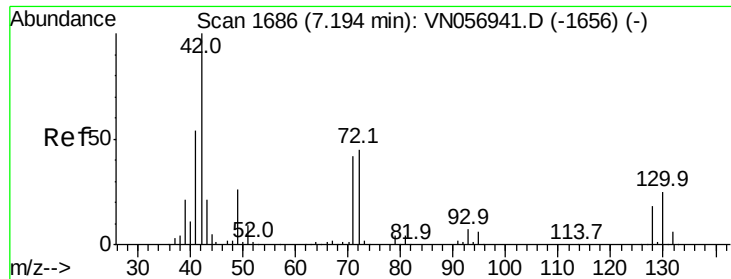
MMDadoda
 8/2/2019 9:13:04 AM



#28
 Bromochloromethane
 Concen: 5.277 ug/l
 RT: 7.18 min Scan# 1681
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.8	0.0	4.6	
130	83.9	69.0	103.4	





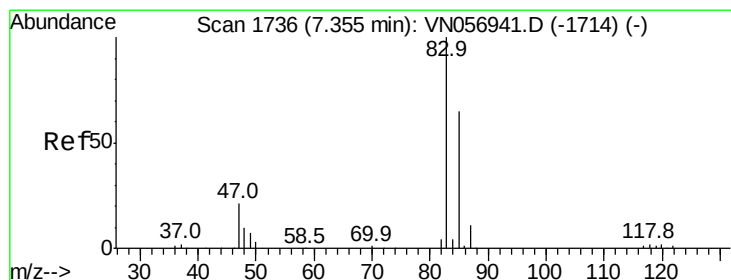
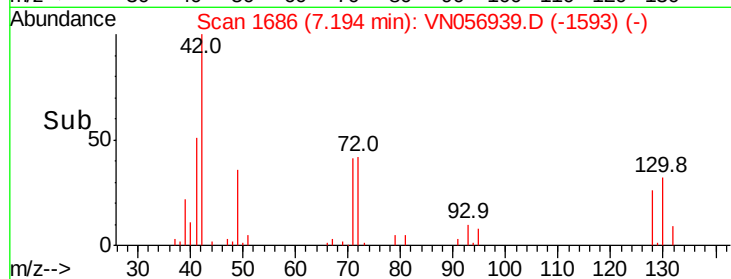
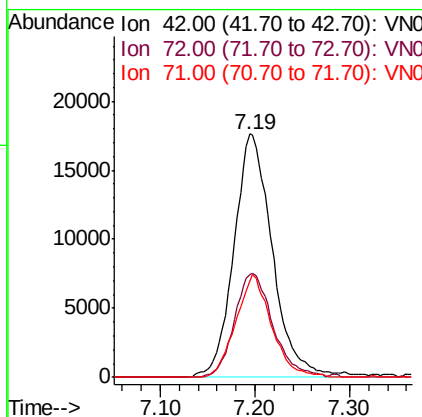
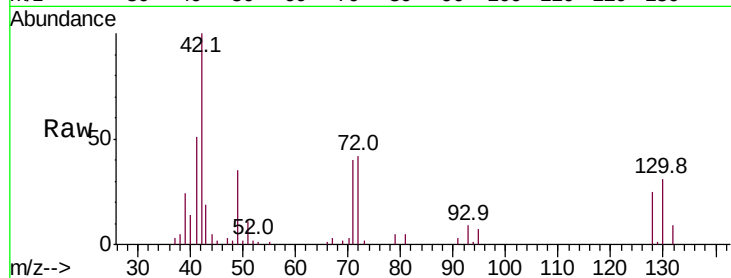
#29
Tetrahydrofuran
Concen: 23.723 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.8	35.6	53.4
71	39.3	33.5	50.3

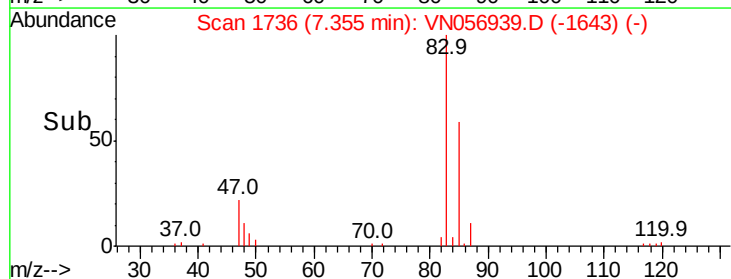
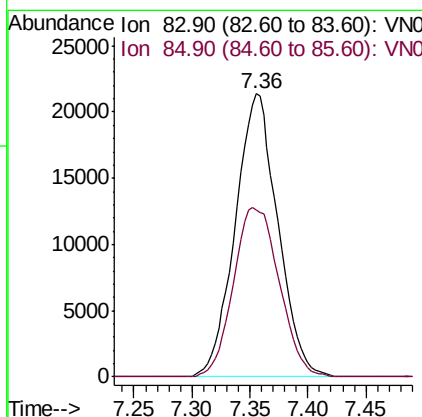
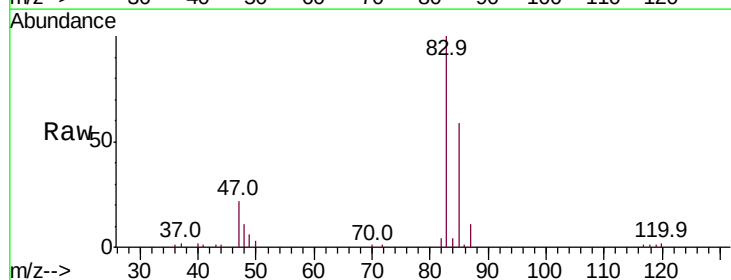
Manual Integrations
APPROVED

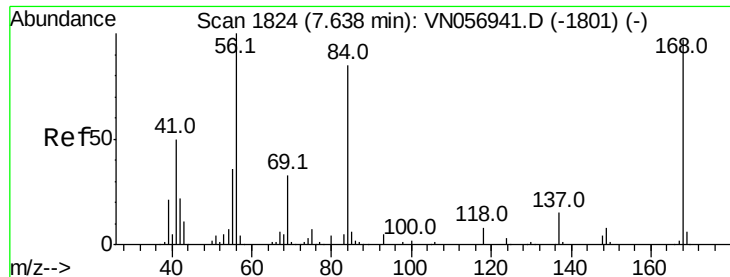
MMDadoda
8/2/2019 9:13:04 AM



#30
Chloroform
Concen: 5.028 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Lower	Upper
83	100		
85	58.8	52.2	78.2





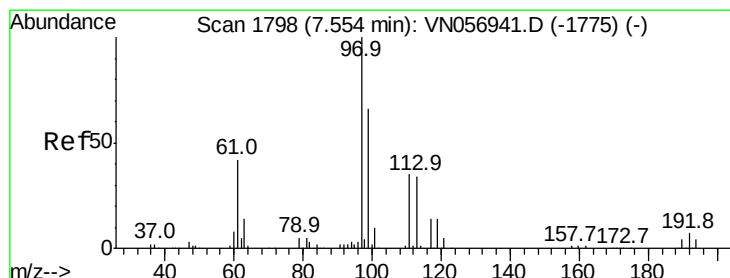
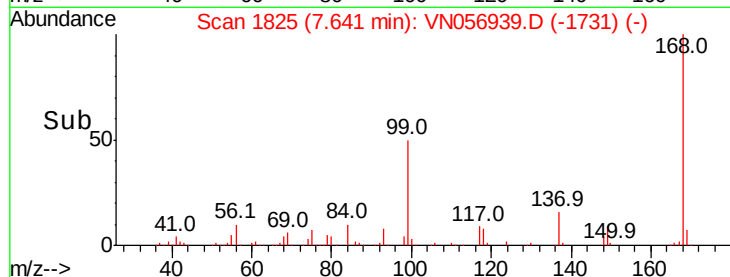
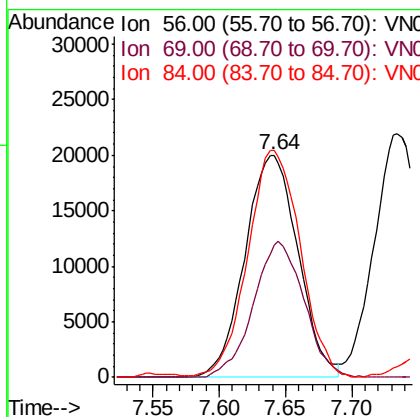
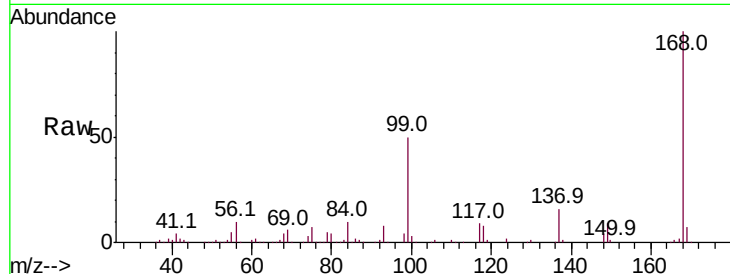
#31
Cyclohexane
Concen: 5.430 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	59.7	26.2	39.2#
84	101.4	68.2	102.2

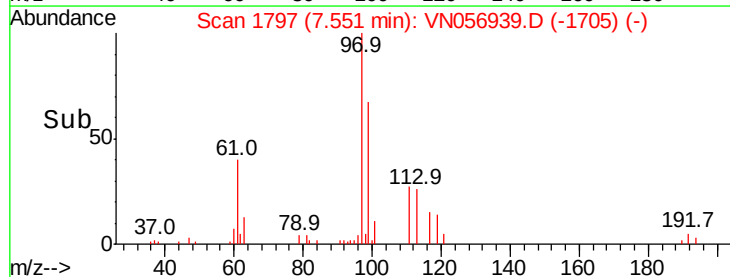
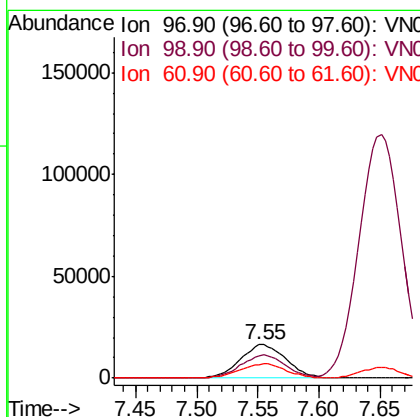
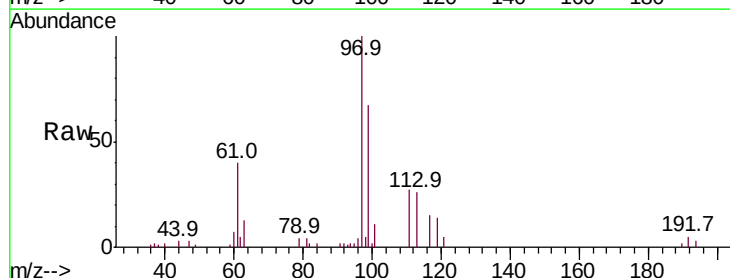
Manual Integrations
APPROVED

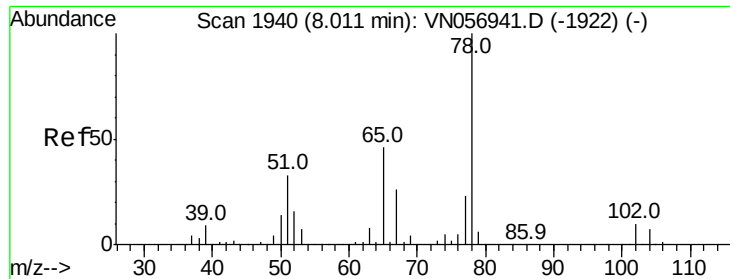
MMDadoda
8/2/2019 9:13:04 AM



#32
1,1,1-Trichloroethane
Concen: 4.937 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. -0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.3	52.3	78.5
61	42.6	33.9	50.9





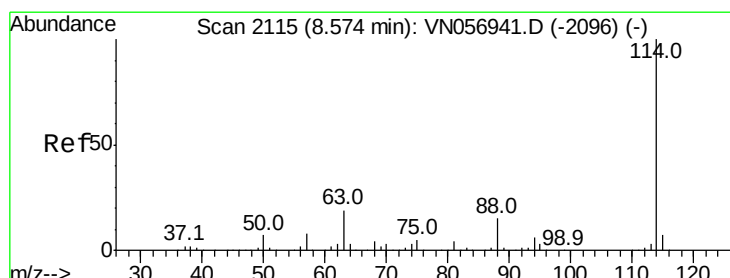
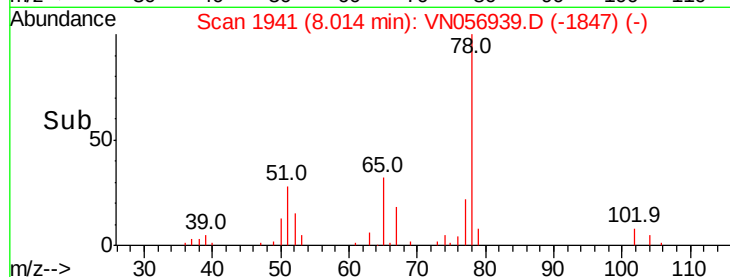
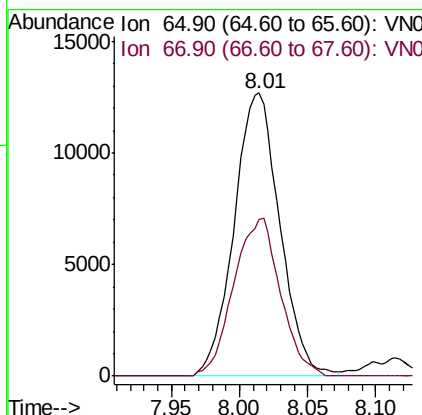
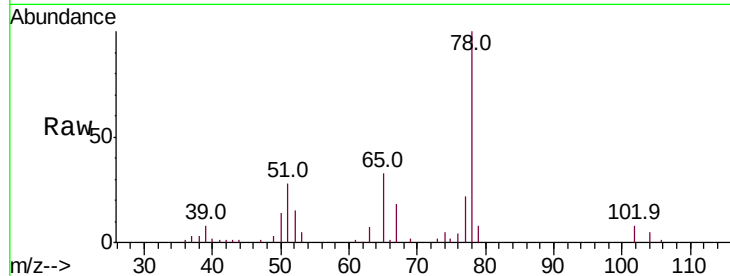
#33
 1,2-Dichloroethane-d4
 Concen: 4.881 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
65	100	29522		
67	57.0	0.0	112.0	

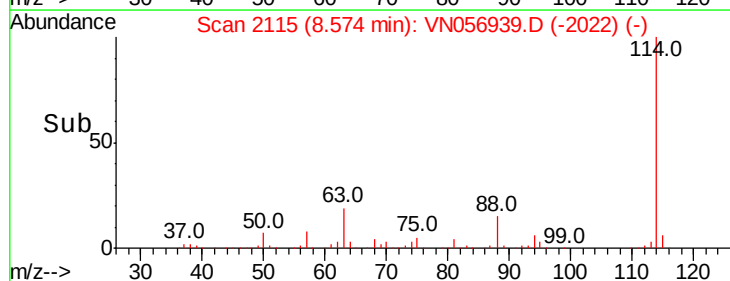
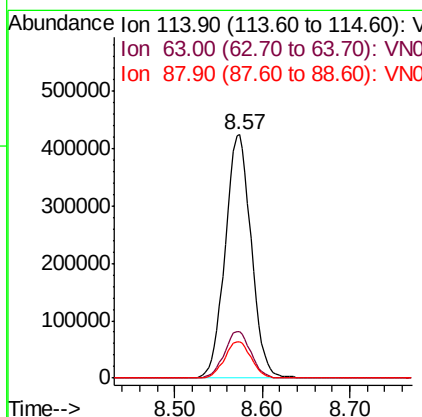
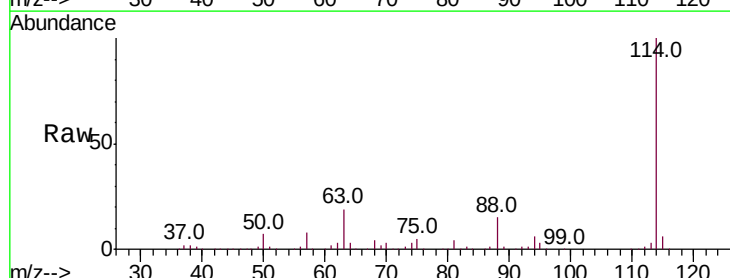
Manual Integrations
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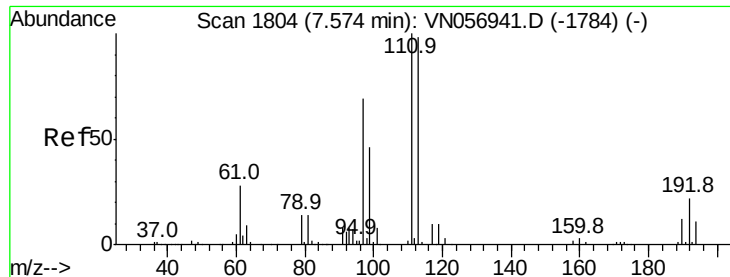
MMDadoda
 8/2/2019 9:13:04 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	875008		
63	19.2	0.0	38.0	
88	15.1	0.0	30.0	





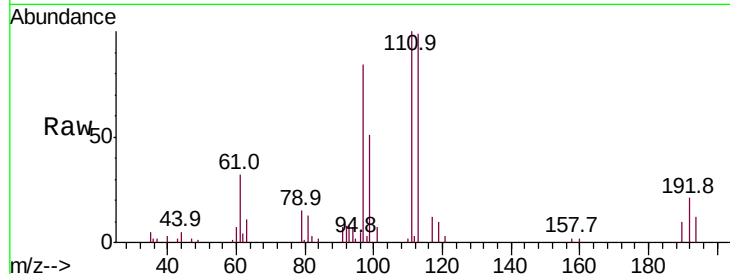
#35
 Dibromofluoromethane
 Concen: 4.919 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.0	123.0
192	22.3	18.4	27.6

Manual Integrations
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MMDadoda
 8/2/2019 9:13:04 AM

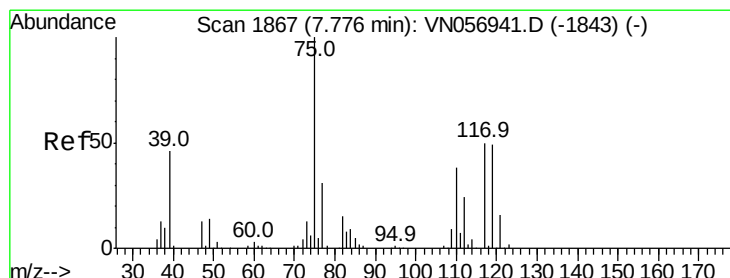
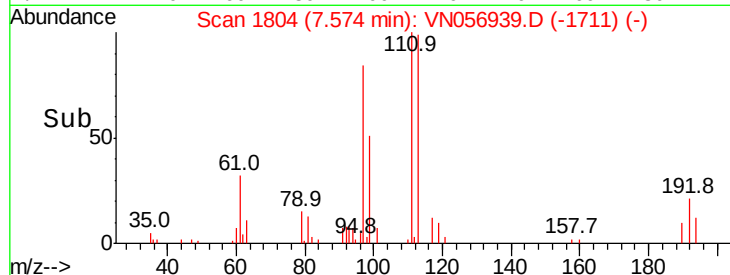
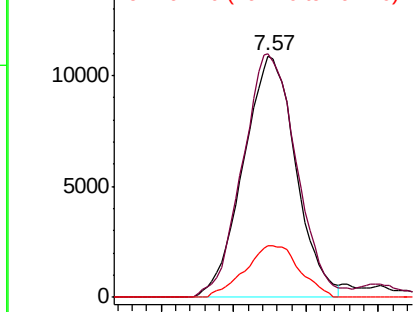


Abundance

Ion 112.80 (112.50 to 113.50): V

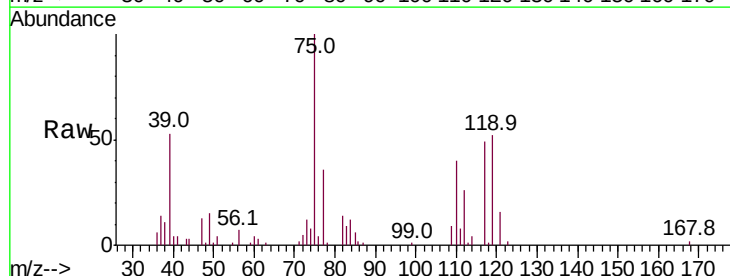
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.972 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.8	18.6	55.8
77	32.4	25.2	37.8

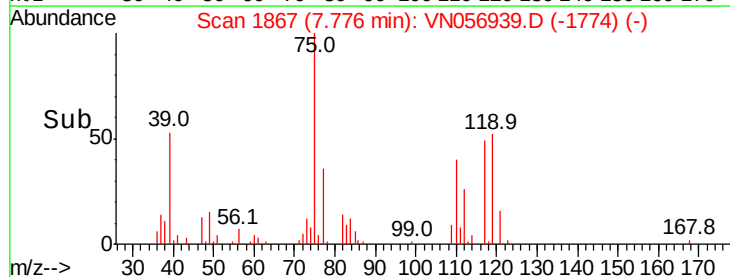
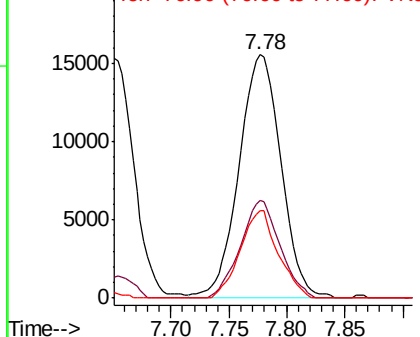


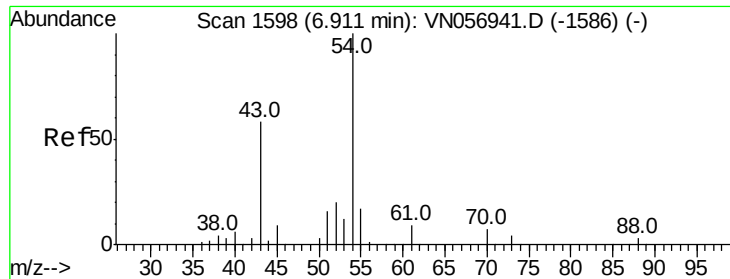
Abundance

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





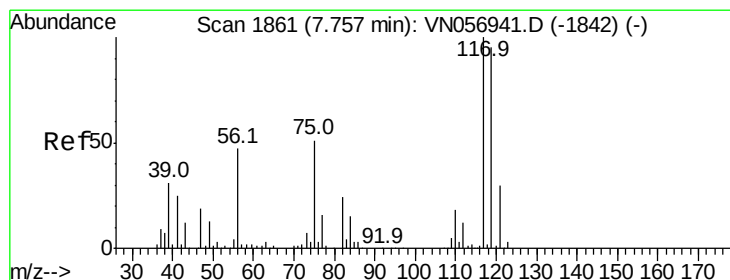
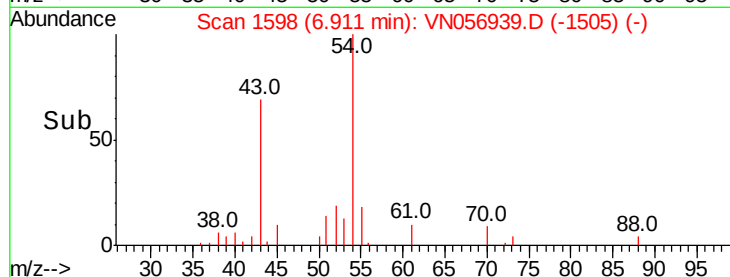
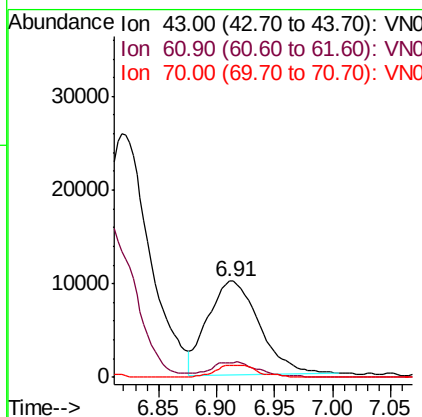
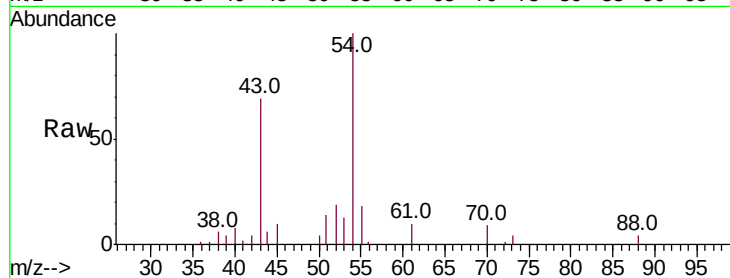
#37
Ethyl Acetate
Concen: 4.795 ug/l
RT: 6.91 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.8	17.6#
70	10.5	8.5	12.7

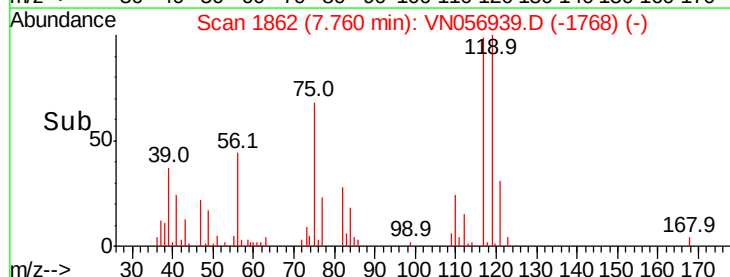
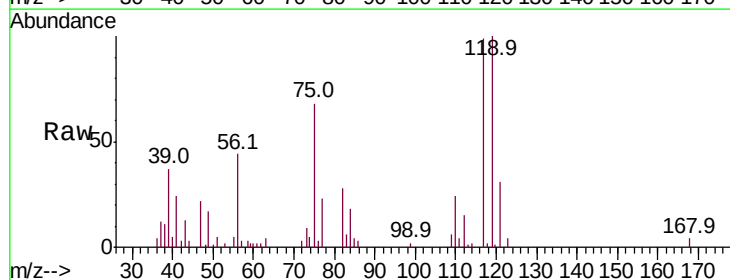
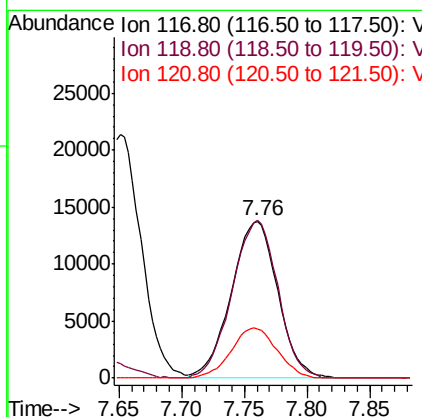
Manual Integrations
APPROVED

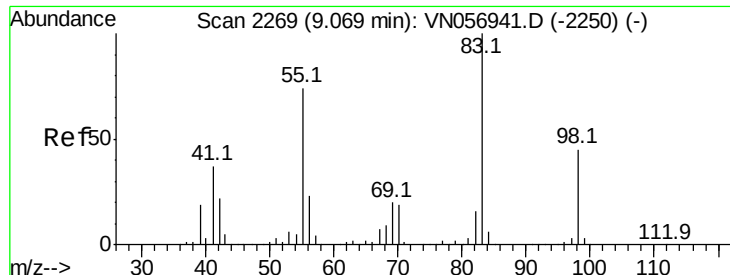
MMDadoda
8/2/2019 9:13:04 AM



#38
Carbon Tetrachloride
Concen: 4.723 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.6	75.3	112.9
121	31.3	24.2	36.4





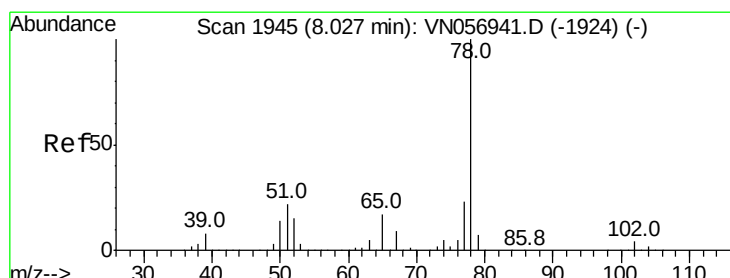
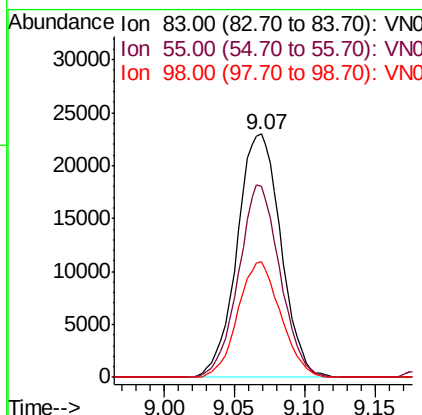
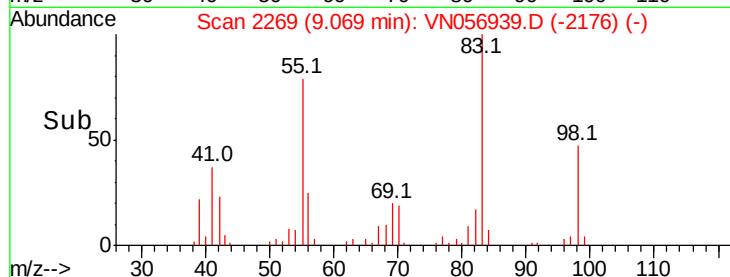
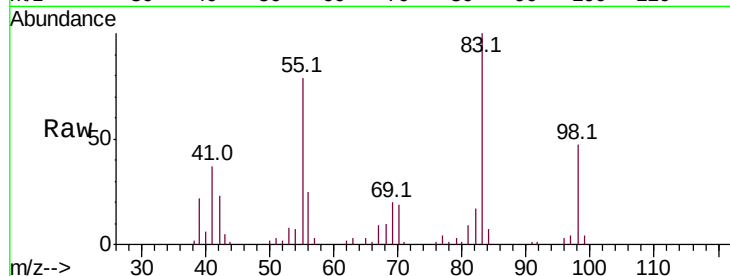
#39
Methylvlcyclohexane
Concen: 5.166 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	83	Resp	49870
Ion Ratio	100	Lower	Upper
83	100		
55	78.5	59.0	88.6
98	47.5	36.2	54.4

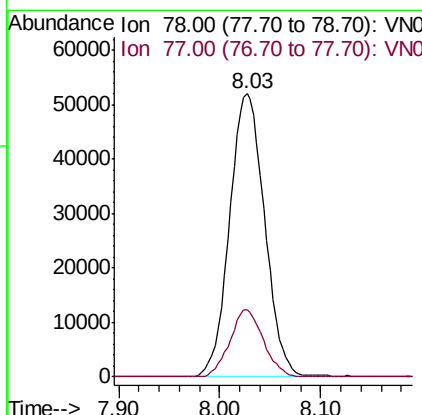
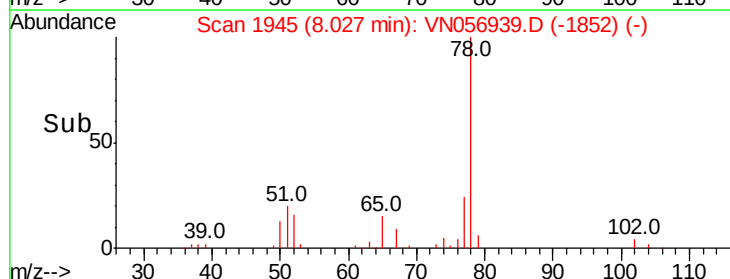
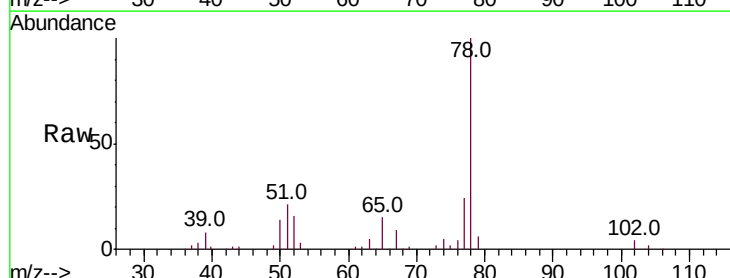
Manual Integrations
APPROVED

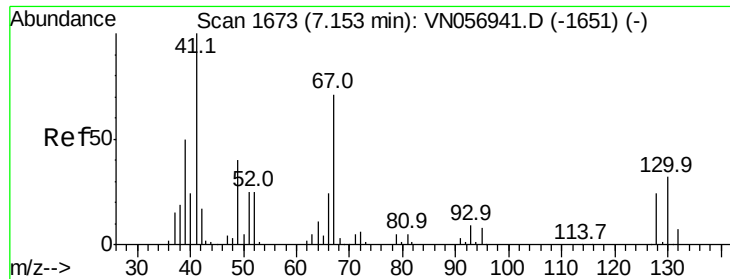
MMDadoda
8/2/2019 9:13:04 AM



#40
Benzene
Concen: 5.115 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion	78	Resp	125466
Ion Ratio	100	Lower	Upper
78	100		
77	23.7	18.3	27.5





#41

Methacrylonitrile

Concen: 4.571 ug/l

RT: 7.16 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Instrument :

MSVOA_N

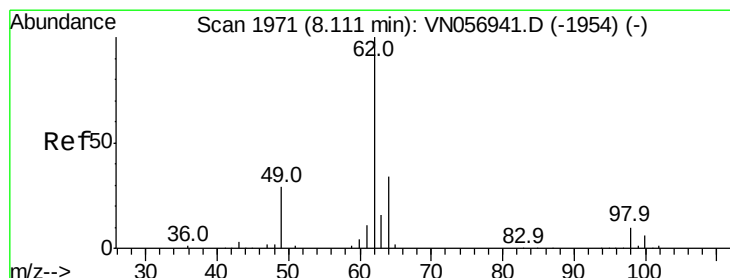
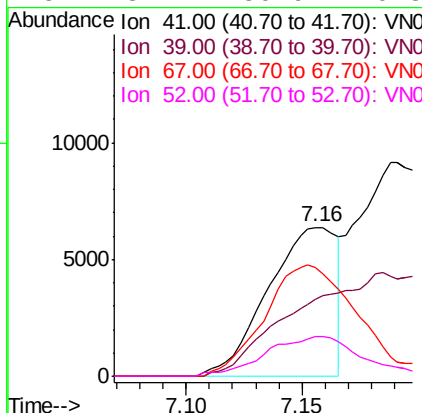
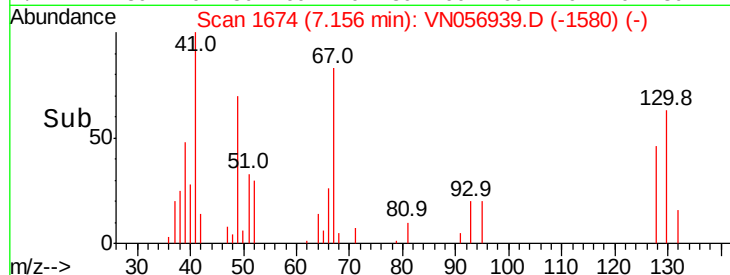
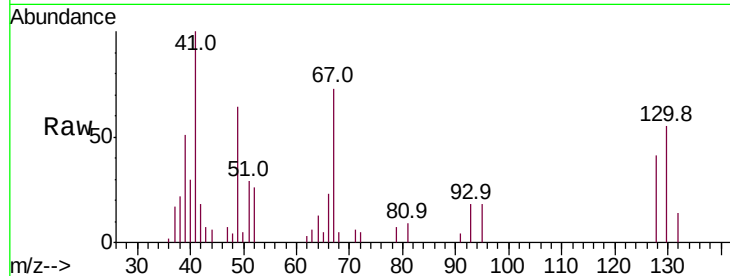
ClientSampled :

VSTDIC005

Tot Ion:	41	Resp:	13183
Ion Ratio	Lower	Upper	
41	100		
39	0.0	48.9	73.3#
67	101.9	83.4	125.0
52	37.2	30.9	46.3

Manual Integrations
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MMDadoda
8/2/2019 9:13:04 AM



#42

1,2-Dichloroethane

Concen: 5.010 ug/l

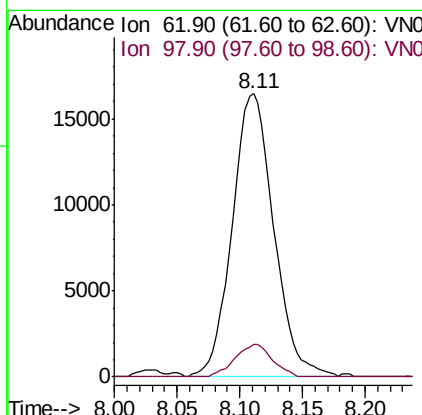
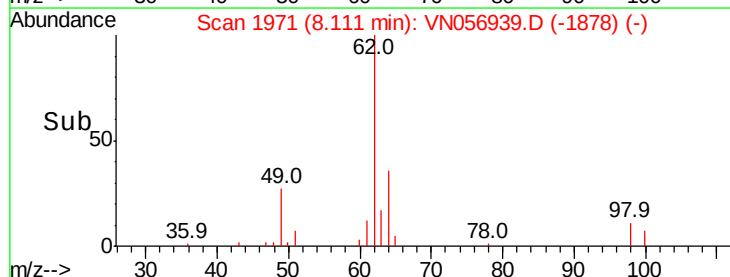
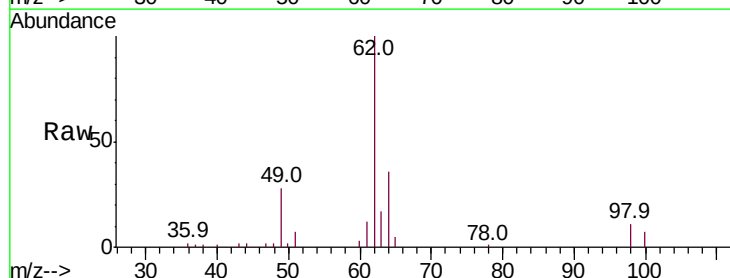
RT: 8.11 min Scan# 1971

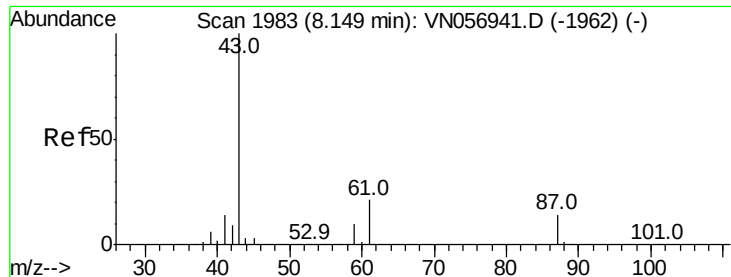
Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Tgt Ion:	62	Resp:	37902
Ion Ratio	Lower	Upper	
62	100		
98	10.3	0.0	20.6





#43

Isopropyl Acetate

Concen: 4.708 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Instrument :

MSVOA_N

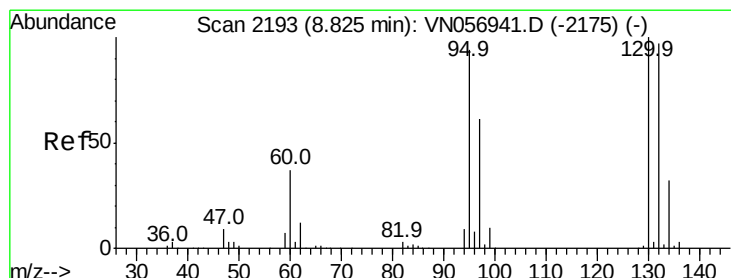
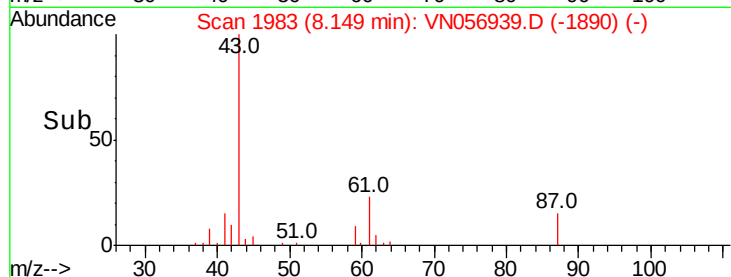
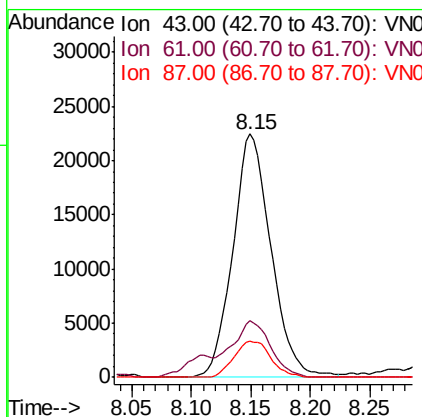
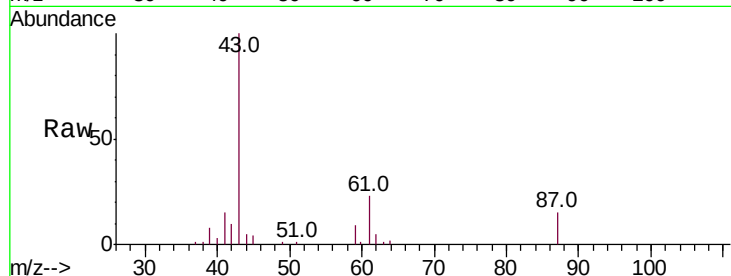
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	49929
Ion	Ratio	Lower	Upper
43	100		
61	23.5	23.0	34.6
87	14.3	11.7	17.5

Manual Integrations
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MMDadoda
8/2/2019 9:13:04 AM



#44

Trichloroethene

Concen: 5.190 ug/l

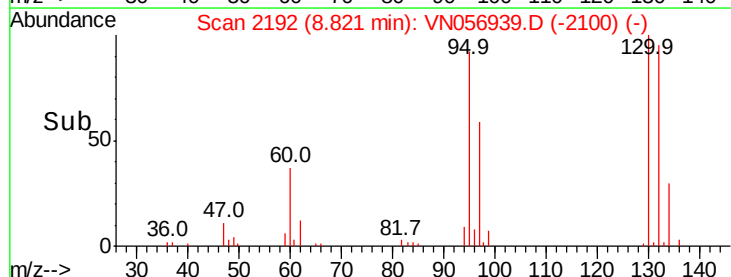
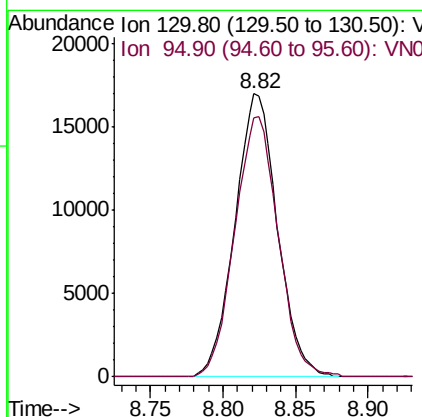
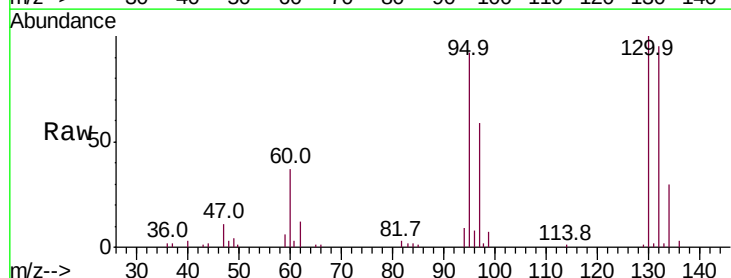
RT: 8.82 min Scan# 2192

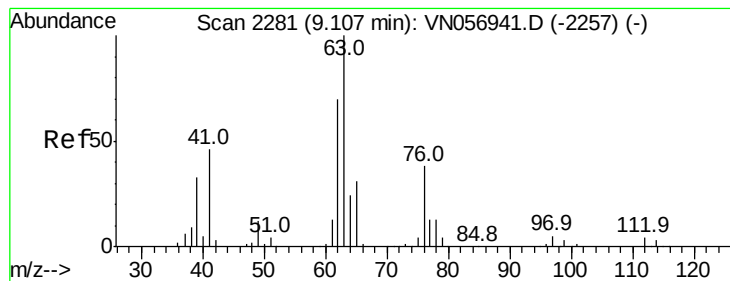
Delta R.T. -0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Tgt Ion:	130	Resp:	34603
Ion	Ratio	Lower	Upper
130	100		
95	91.6	0.0	189.0





#45

1,2-Dichloropropane

Concen: 5.015 ug/l

RT: 9.11 min Scan# 2281

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 63 Resp: 32980

Ion Ratio Lower Upper

63 100

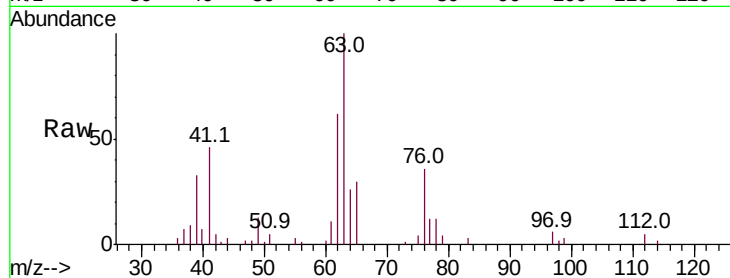
65 30.4 24.8 37.2

Manual Integrations

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8/2/2019 9:13:04 AM



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.11

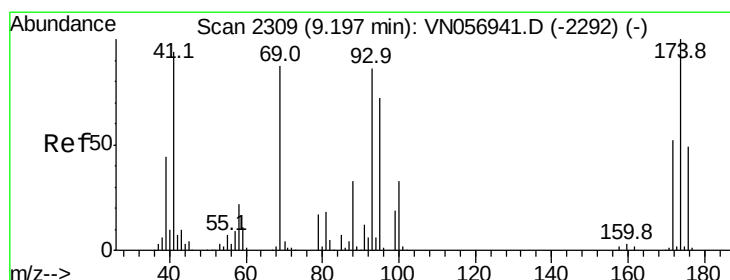
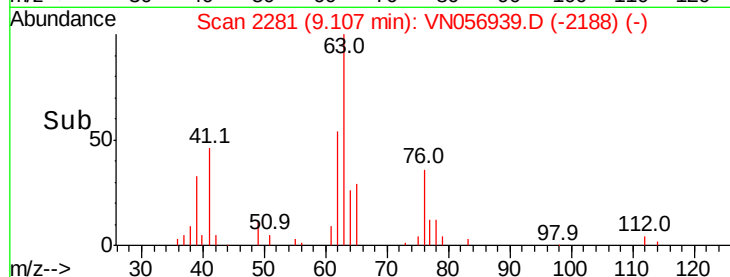
15000

10000

5000

0

Time--> 9.00 9.05 9.10 9.15



#46

Dibromomethane

Concen: 4.901 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

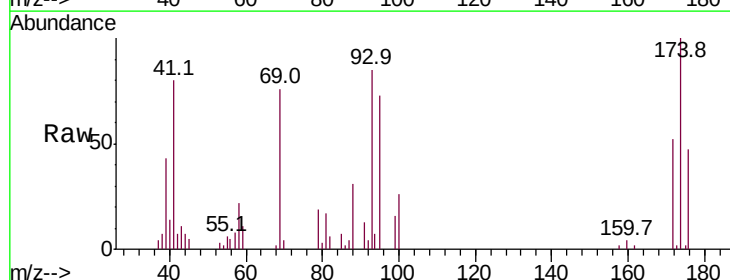
Tgt Ion: 93 Resp: 19465

Ion Ratio Lower Upper

93 100

95 86.5 67.0 100.6

174 119.4 92.7 139.1



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

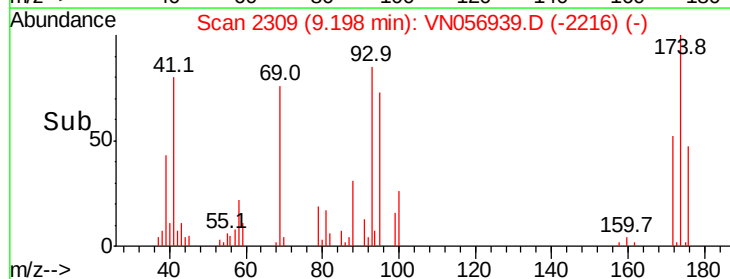
15000

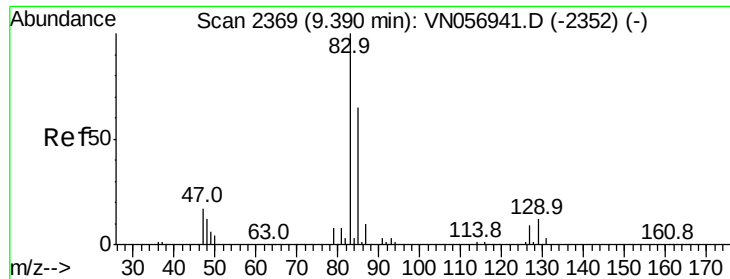
10000

5000

0

Time--> 9.15 9.20 9.25





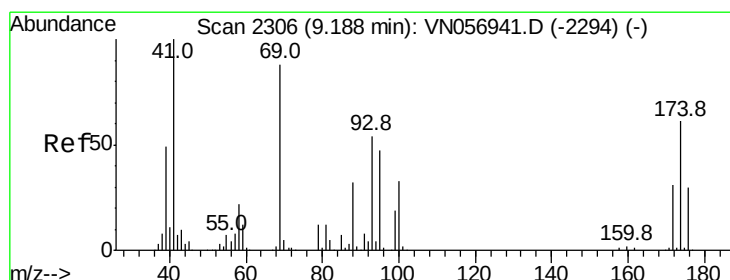
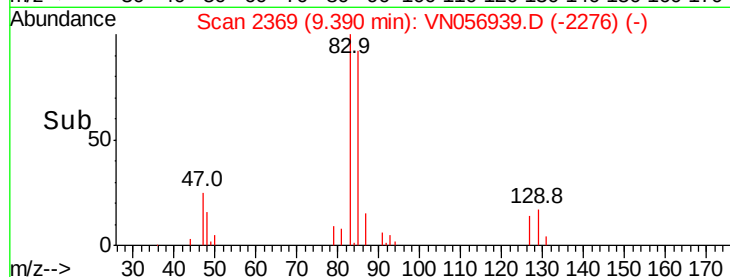
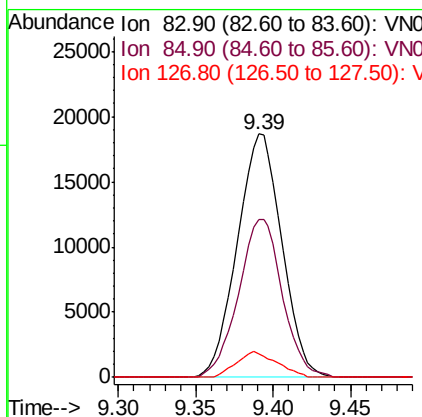
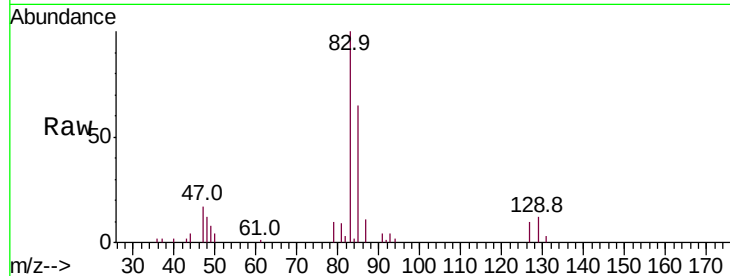
#47
Bromodichloromethane
Concen: 4.812 ug/l
RT: 9.39 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.6	77.4
127	9.6	7.3	10.9

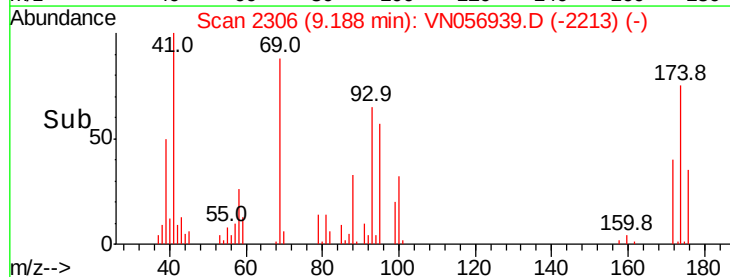
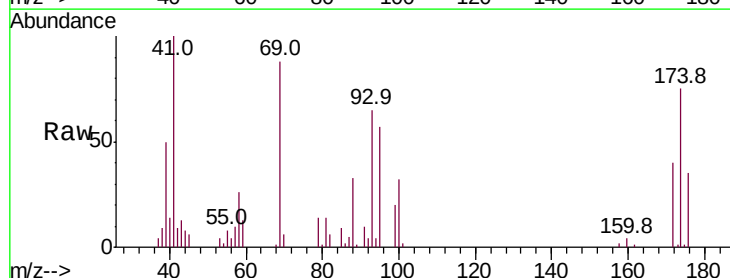
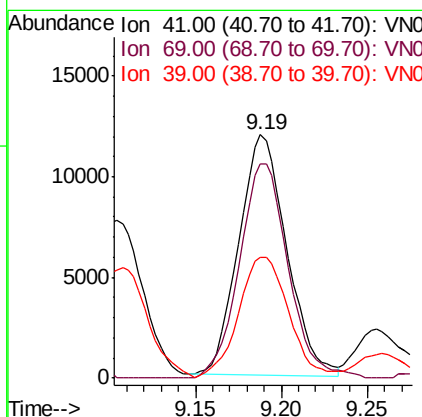
Manual Integrations
APPROVED

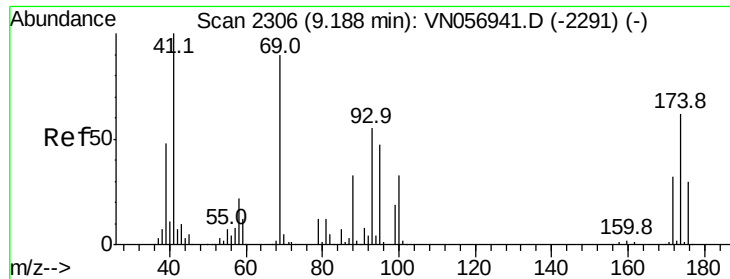
MMDadoda
8/2/2019 9:13:04 AM



#48
Methyl methacrylate
Concen: 4.566 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Lower	Upper
41	100		
69	91.0	73.4	110.0
39	52.7	39.9	59.9





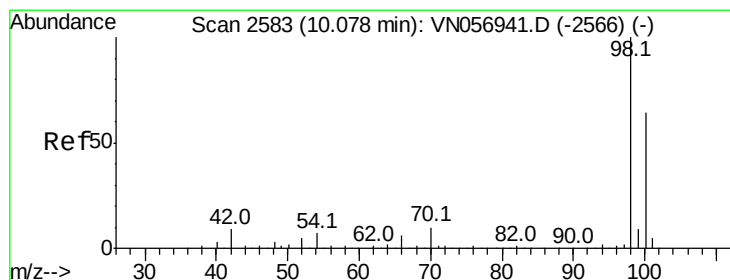
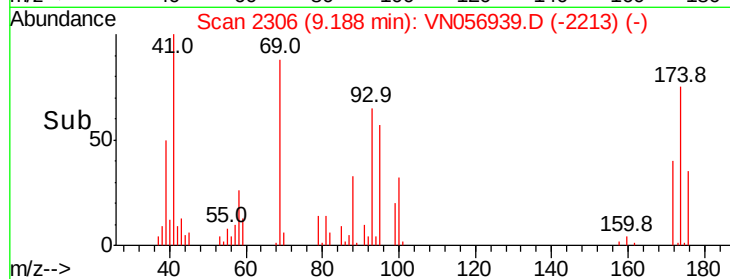
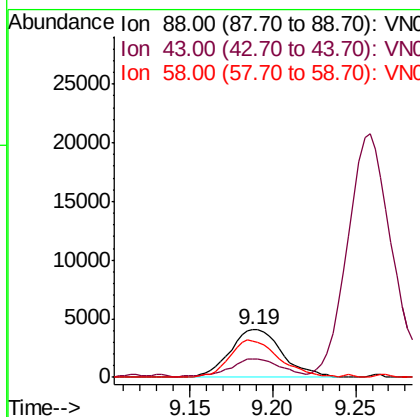
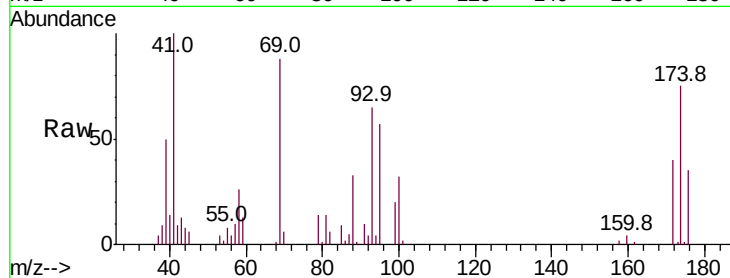
#49
 1,4-Dioxane
 Concen: 84.952 ug/l
 RT: 9.19 min Scan# 2306
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	38.6	22.2	33.2#
58	75.5	54.1	81.1

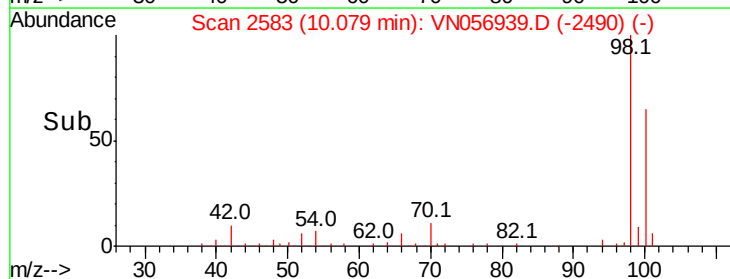
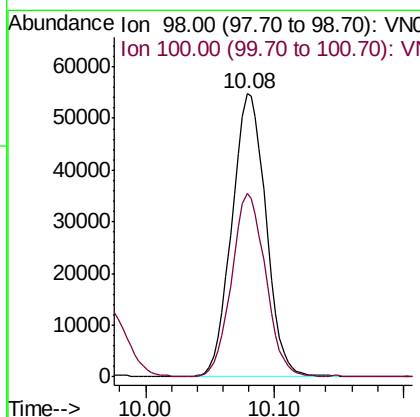
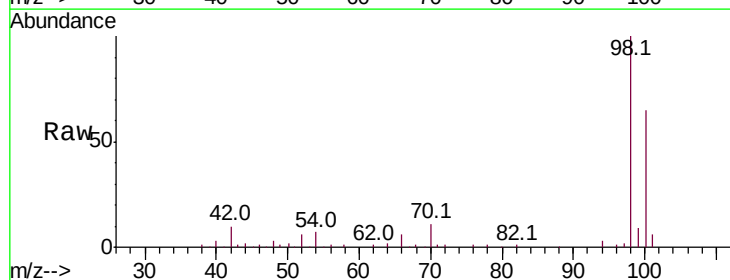
Manual Integrations
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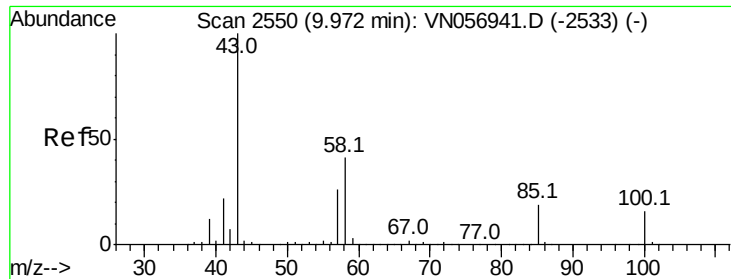
MMDadoda
 8/2/2019 9:13:04 AM



#50
 Toluene-d8
 Concen: 4.788 ug/l
 RT: 10.08 min Scan# 2583
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.3	76.9





#51

4-Methyl-2-Pentanone

Concen: 23.072 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Tot Ion: 43 Resp: 145481

Ion Ratio Lower Upper

43 100

58 41.0 33.1 49.7

Instrument :

MSVOA_N

ClientSampled :

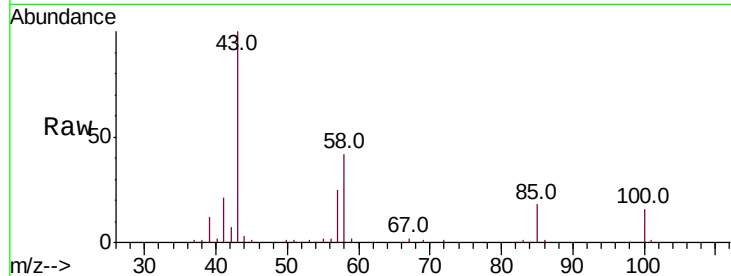
VSTDIC005

Manual Integrations

APPROVED

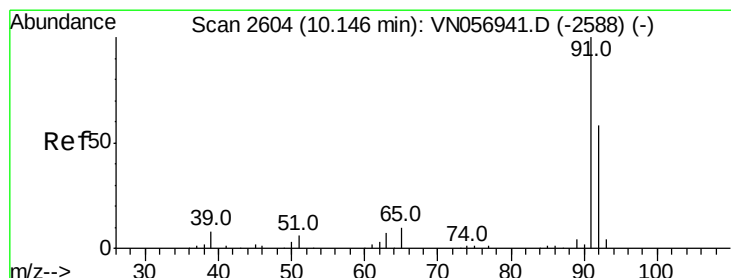
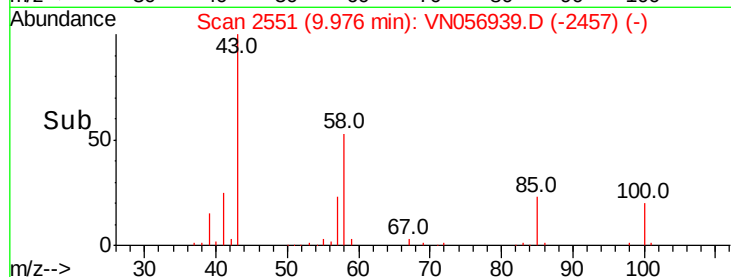
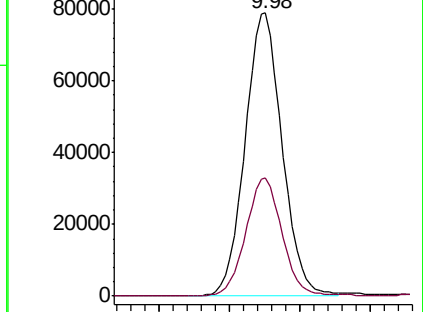
MMDadoda

8/2/2019 9:13:04 AM



Abundance Ion 43.00 (42.70 to 43.70): VN056941.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN056941.D (-2533) (-)



#52

Toluene

Concen: 4.982 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN056939.D

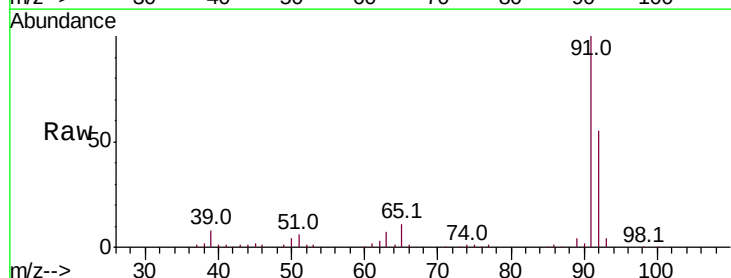
Acq: 26 Jul 2019 9:25

Tgt Ion: 92 Resp: 73098

Ion Ratio Lower Upper

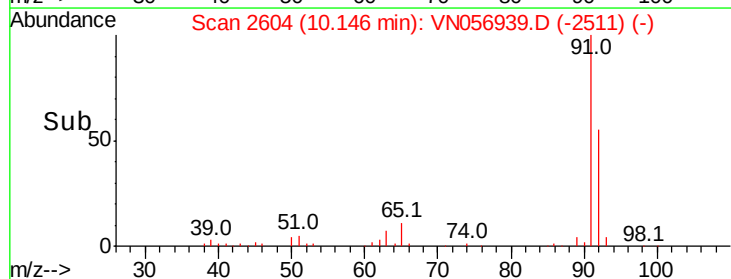
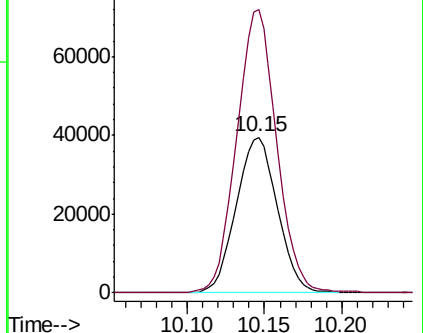
92 100

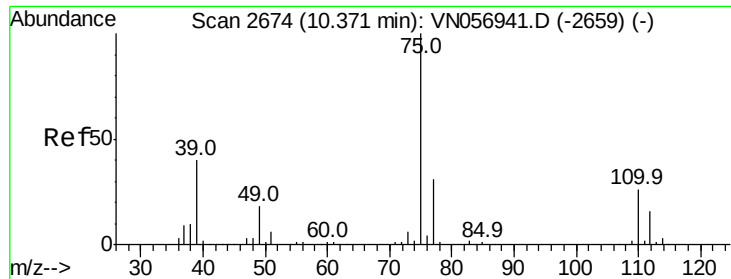
91 177.2 138.0 207.0



Abundance Ion 92.00 (91.70 to 92.70): VN056941.D (-2588) (-)

Ion 91.00 (90.70 to 91.70): VN056941.D (-2588) (-)





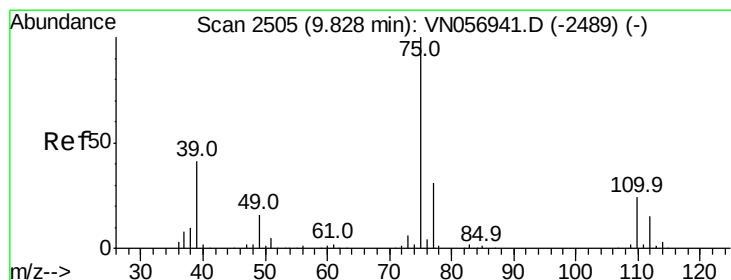
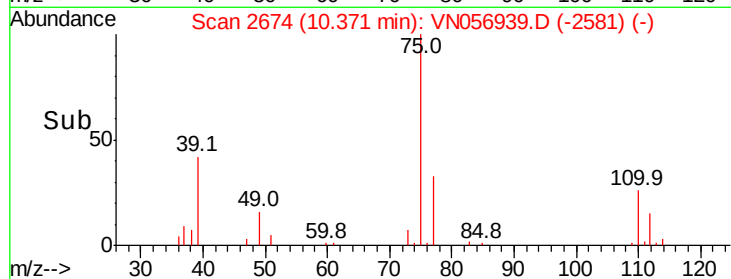
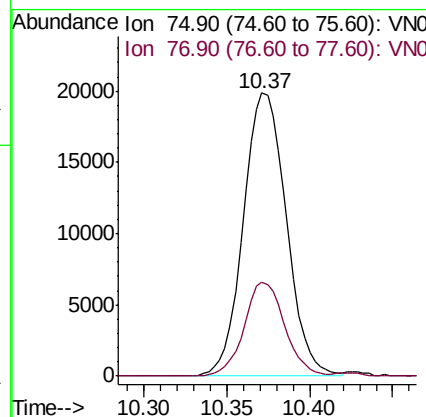
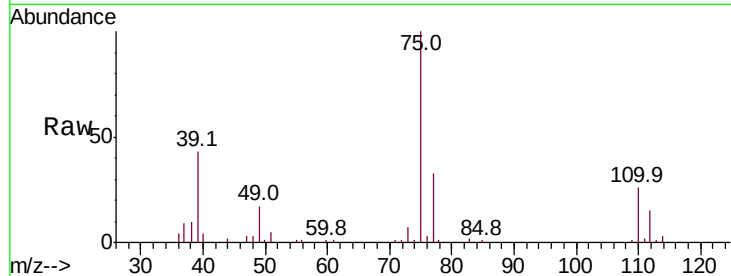
#53
t-1,3-Dichloropropene
Concen: 4.582 ug/l
RT: 10.37 min Scan# 2674
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 75 Resp: 35966
Ion Ratio Lower Upper
75 100
77 33.2 25.1 37.7

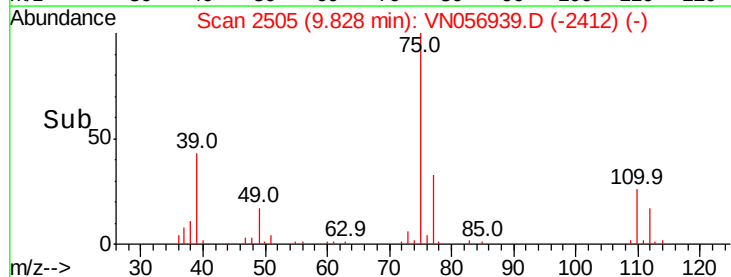
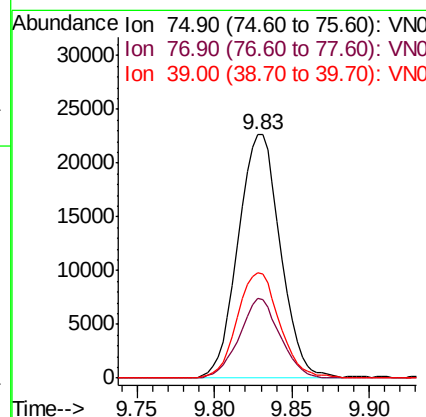
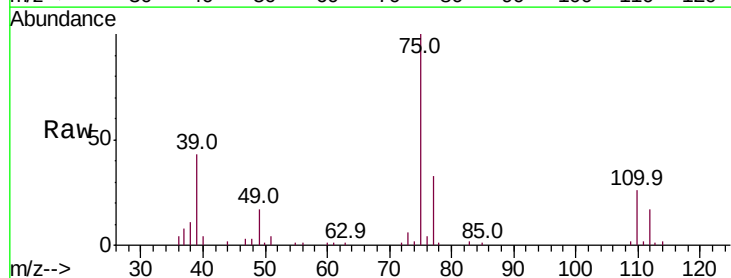
Manual Integrations
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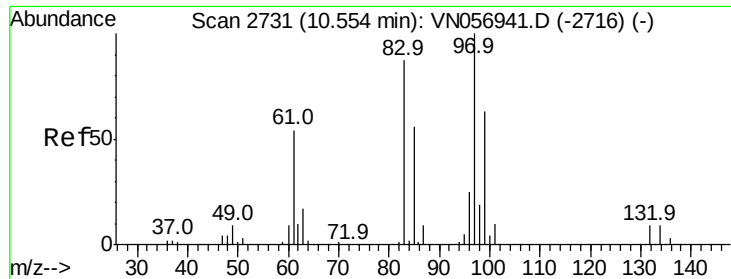
MMDadoda
8/2/2019 9:13:04 AM



#54
cis-1,3-Dichloropropene
Concen: 4.675 ug/l
RT: 9.83 min Scan# 2505
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion: 75 Resp: 43045
Ion Ratio Lower Upper
75 100
77 32.8 25.0 37.6
39 43.4 32.6 49.0





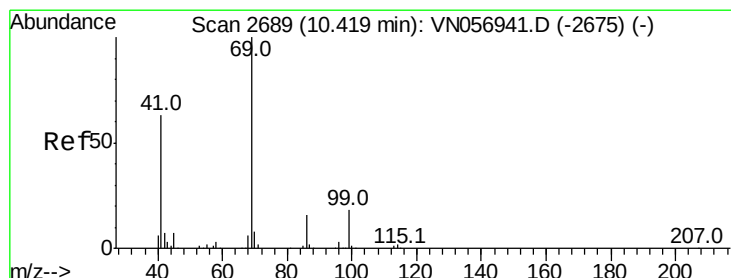
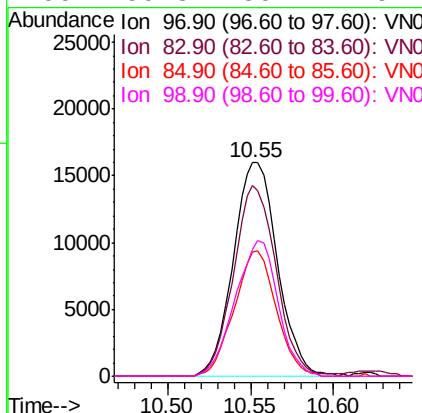
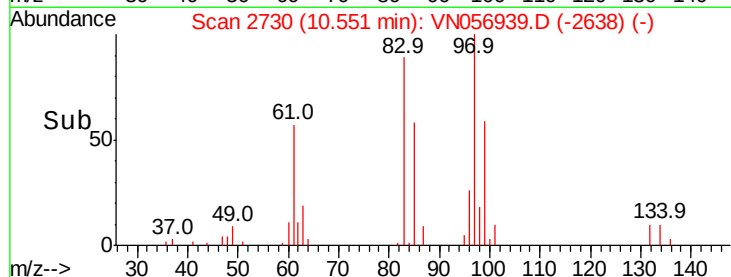
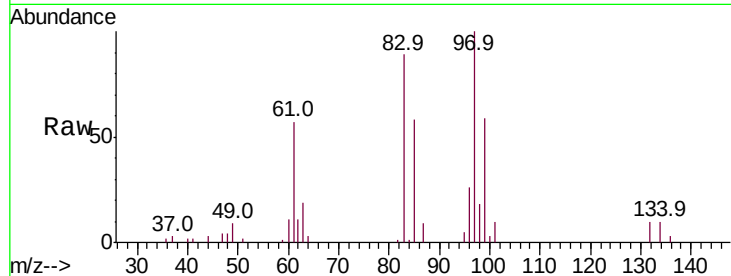
#55
 1,1,2-Trichloroethane
 Concen: 5.013 ug/l
 RT: 10.55 min Scan# 2730
 Delta R.T. -0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
97	100		
83	89.0	69.4	104.0
85	58.3	44.7	67.1
99	59.3	50.1	75.1

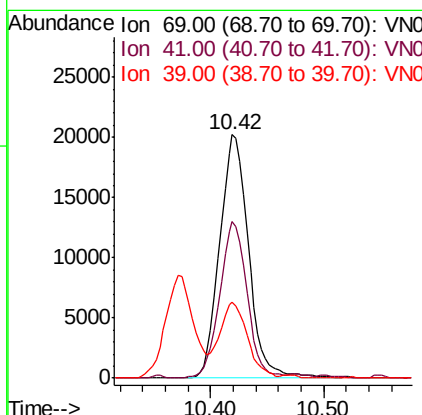
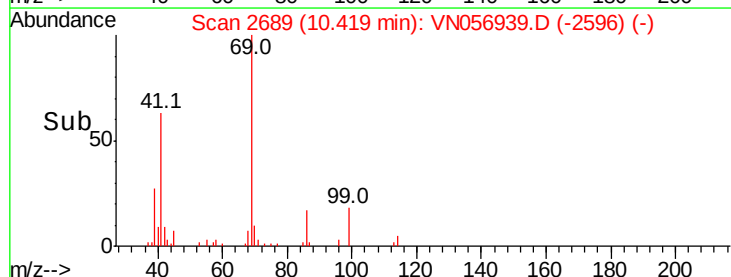
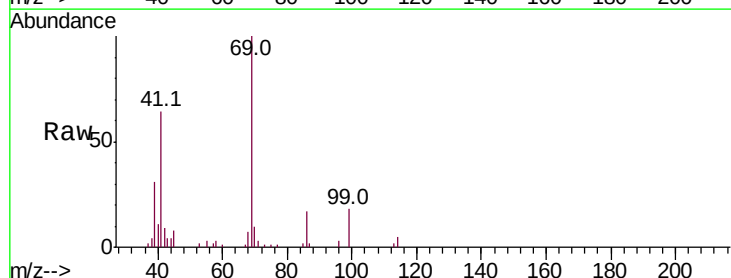
Manual Integrations
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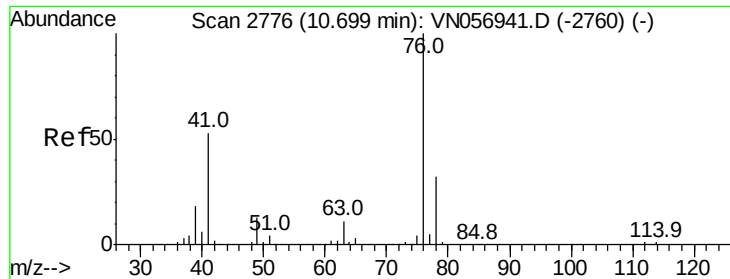
MMDadoda
 8/2/2019 9:13:04 AM



#56
 Ethyl methacrylate
 Concen: 4.509 ug/l
 RT: 10.42 min Scan# 2689
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Lower	Upper
69	100		
41	61.0	49.2	73.8
39	29.4	23.1	34.7





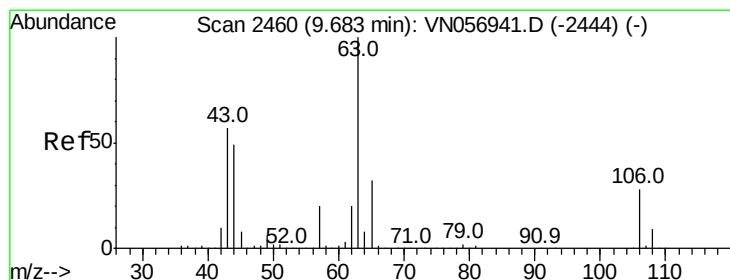
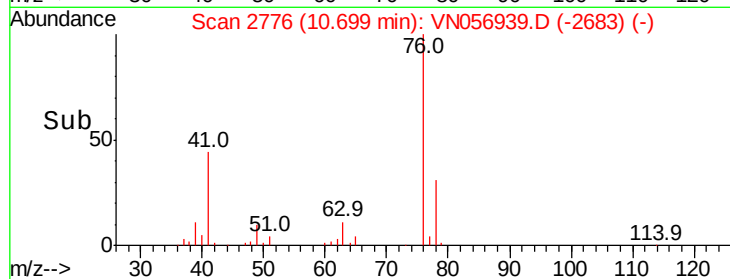
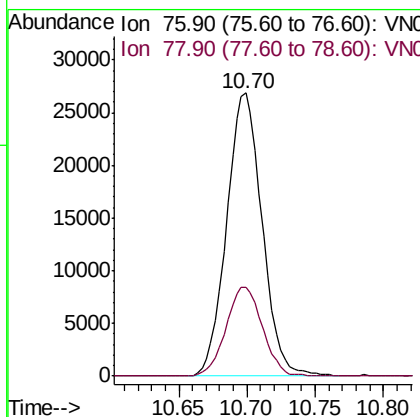
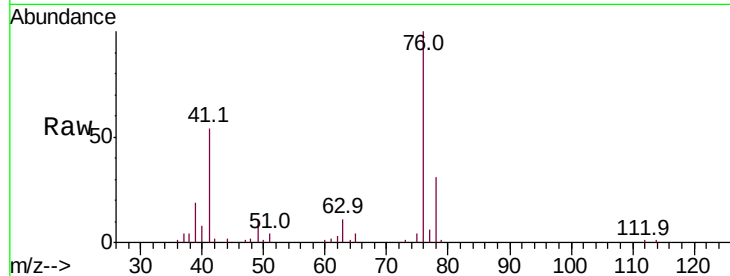
#57
 1,3-Dichloropropane
 Concen: 5.027 ug/l
 RT: 10.70 min Scan# 2776
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 76 Resp: 48520
 Ion Ratio Lower Upper
 76 100
 78 32.1 25.9 38.9

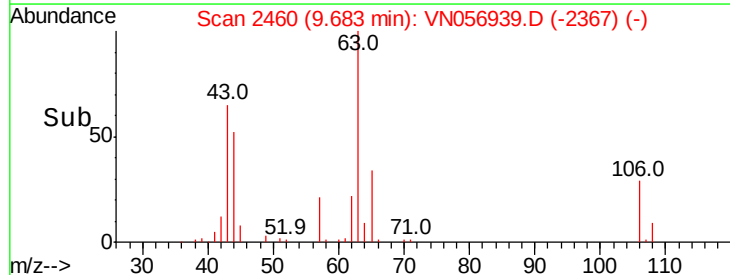
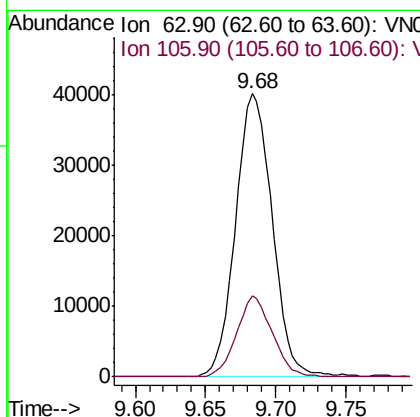
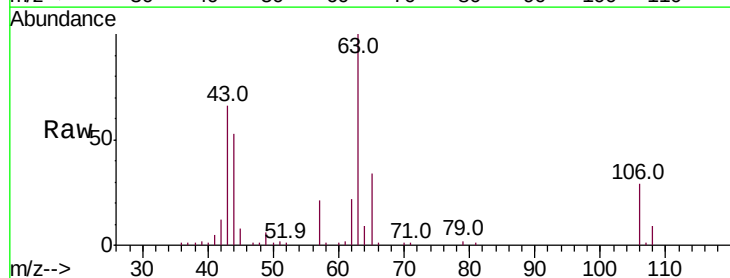
Manual Integrations
 APPROVED

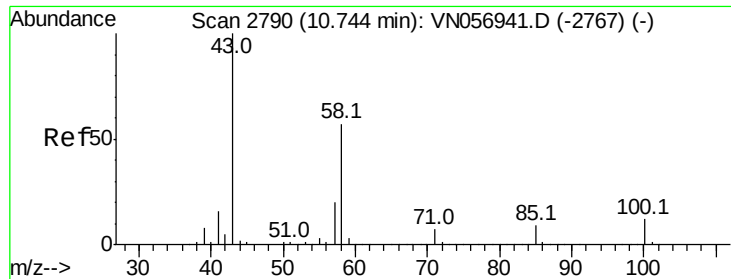
MMDadoda
 8/2/2019 9:13:04 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 23.200 ug/l
 RT: 9.68 min Scan# 2460
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Tgt Ion: 63 Resp: 73435
 Ion Ratio Lower Upper
 63 100
 106 27.6 22.0 33.0





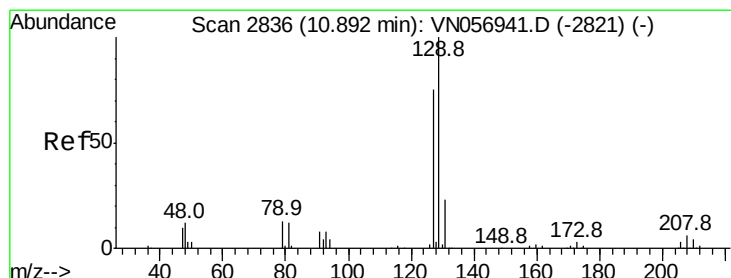
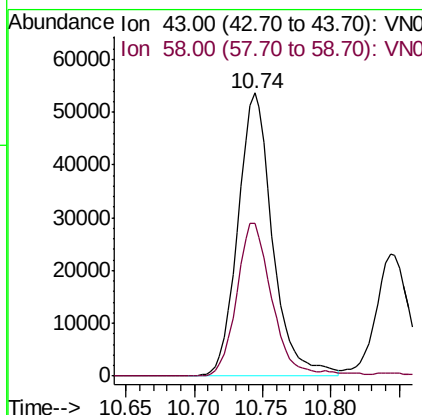
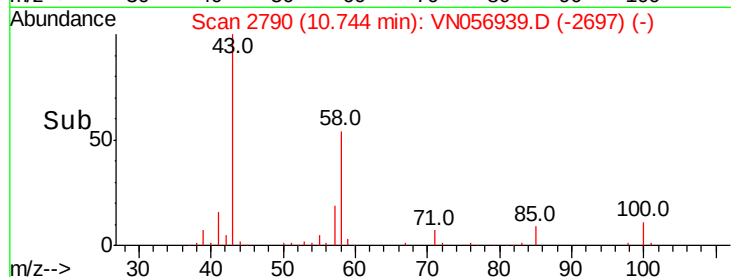
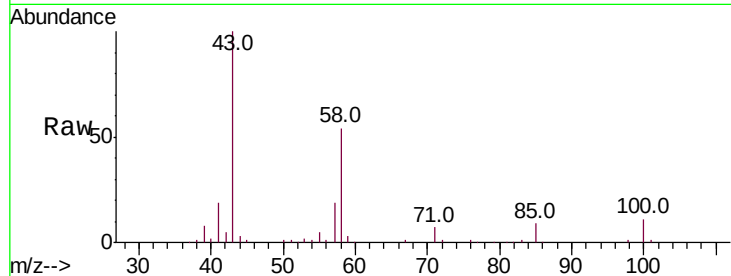
#59
2-Hexanone
Concen: 21.826 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	43	58	Ratio	Lower	Upper
43	100				
58	55.6		28.5	85.5	

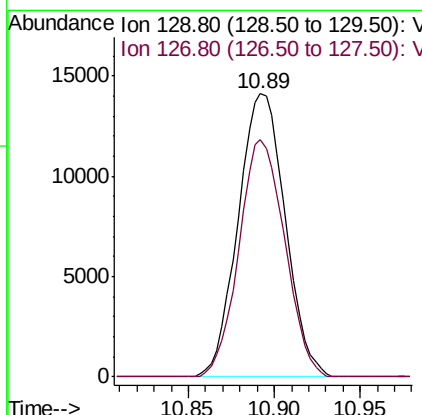
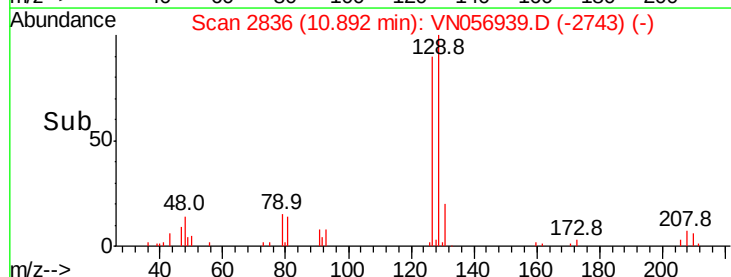
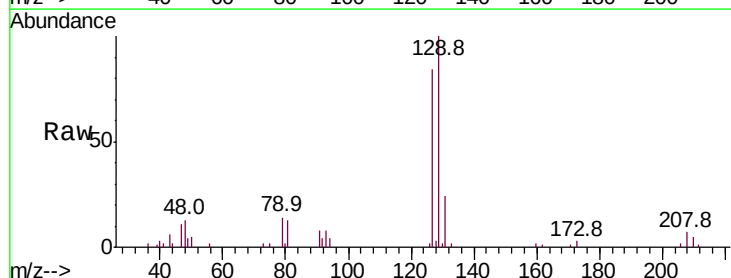
Manual Integrations
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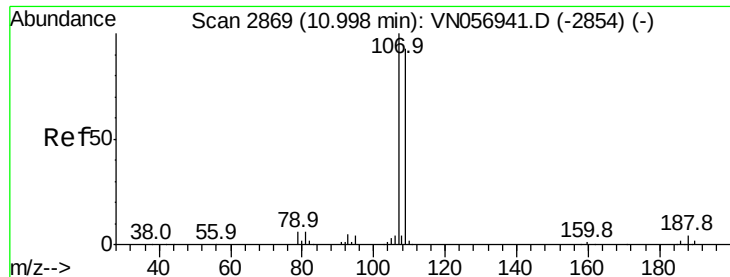
MMDadoda
8/2/2019 9:13:04 AM



#60
Dibromochloromethane
Concen: 4.449 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion	129	127	Ratio	Lower	Upper
129	100				
127	81.3		38.0	113.9	





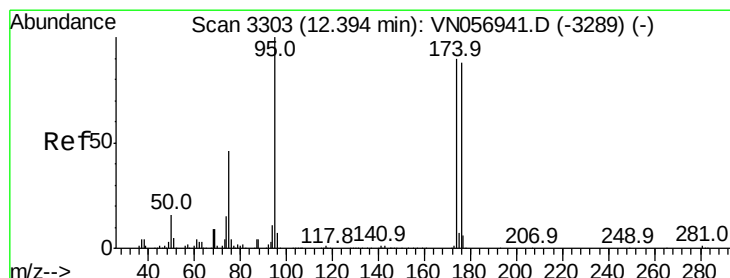
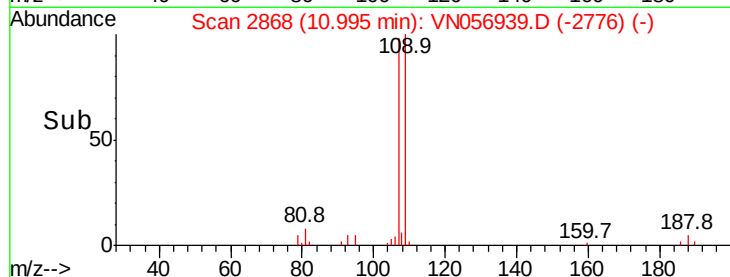
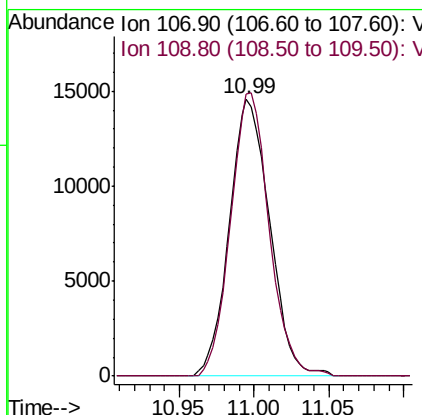
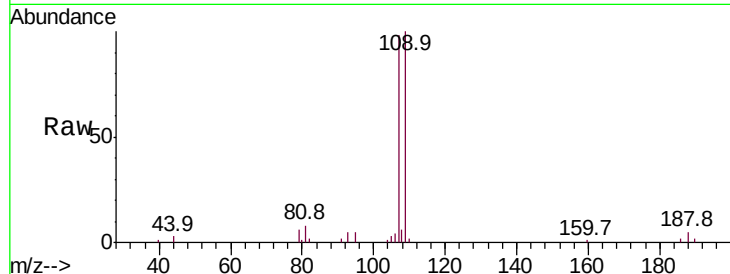
#61
 1,2-Dibromoethane
 Concen: 4.688 ug/l
 RT: 10.99 min Scan# 2868
 Delta R.T. -0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
107	100		
109	97.7	76.0	114.0

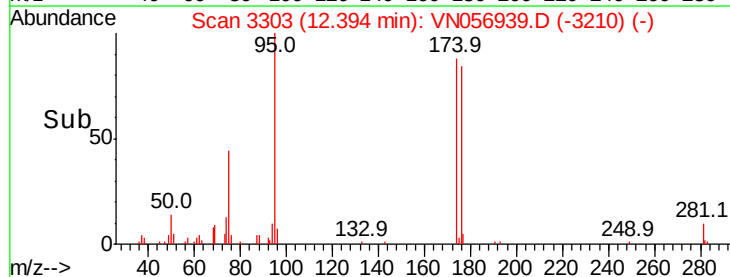
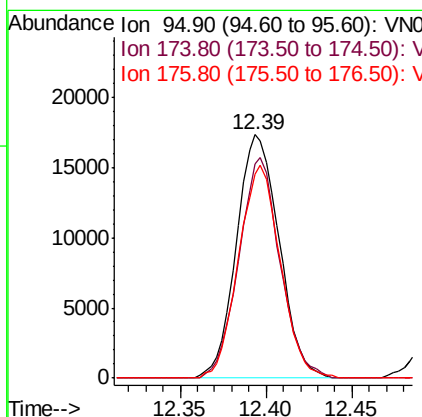
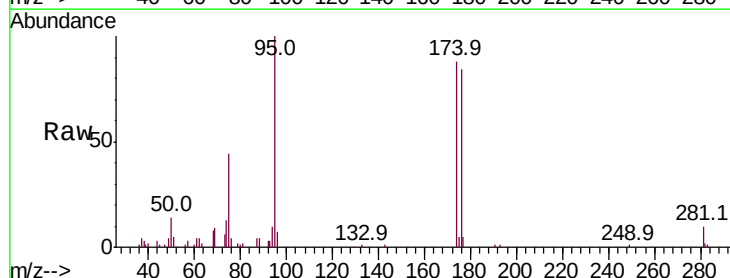
Manual Integrations
 APPROVED

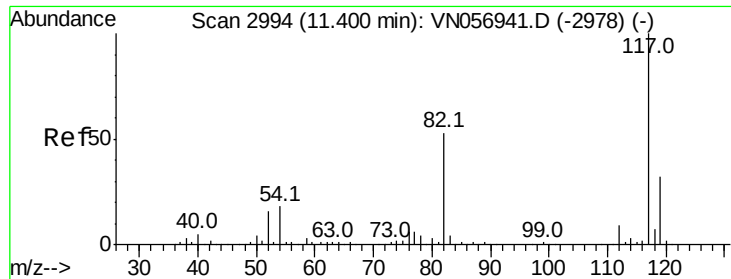
MMDadoda
 8/2/2019 9:13:04 AM



#62
 4-Bromofluorobenzene
 Concen: 4.344 ug/l
 RT: 12.39 min Scan# 3303
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.1	0.0	182.2
176	85.5	0.0	179.4





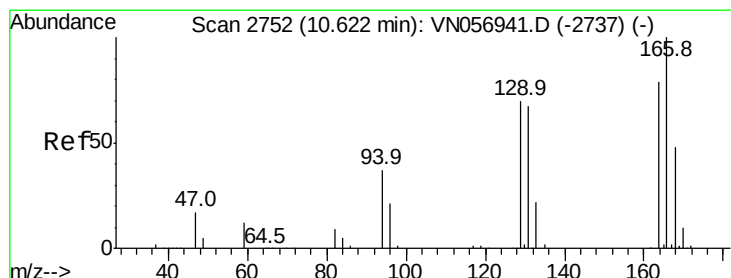
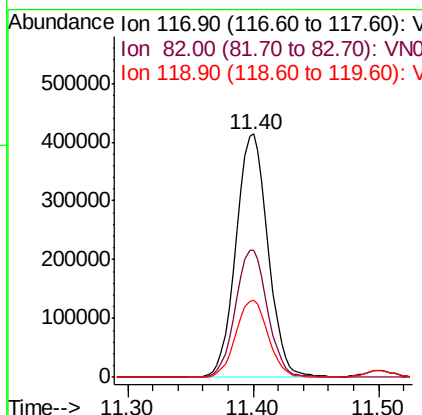
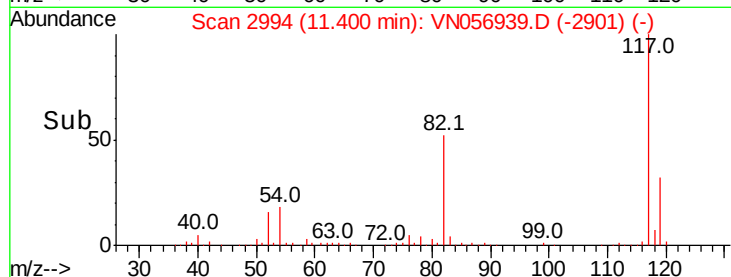
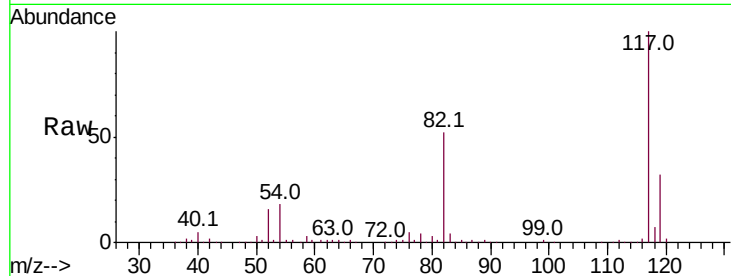
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
117	100	735296		
82	52.1		42.2	63.4
119	31.9		25.8	38.6

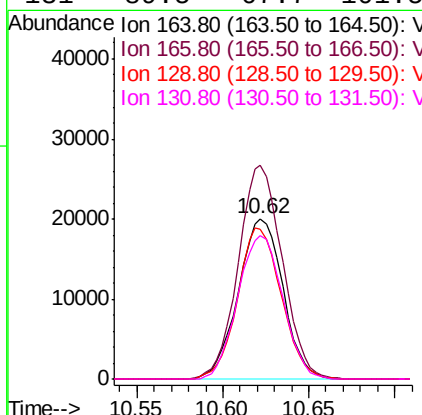
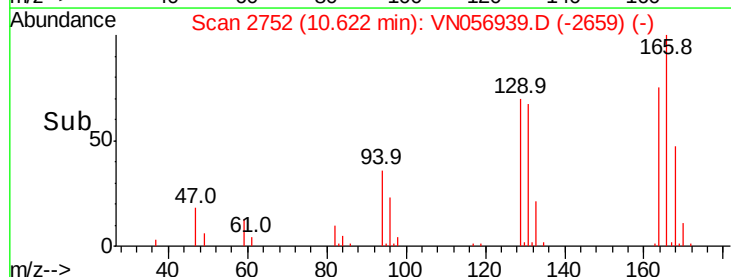
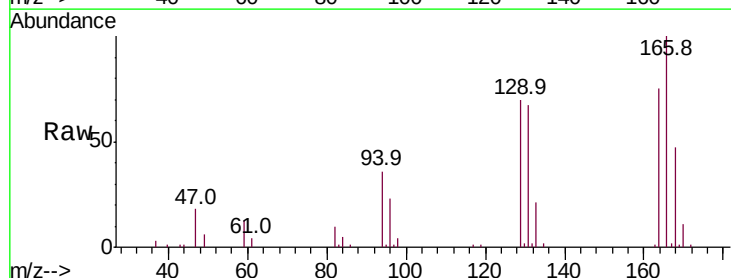
Manual Integrations
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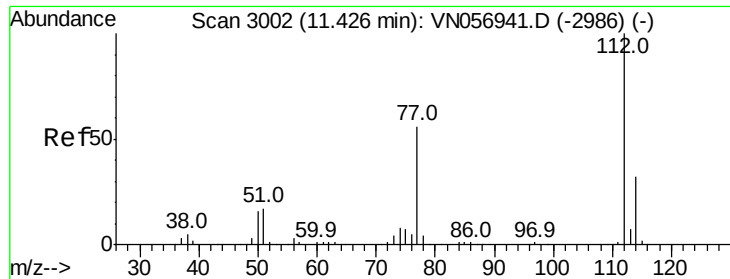
MMDadoda
8/2/2019 9:13:04 AM



#64
Tetrachloroethene
Concen: 5.501 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	36133		
166	133.3		101.1	151.7
129	93.5		70.9	106.3
131	89.5		67.7	101.5





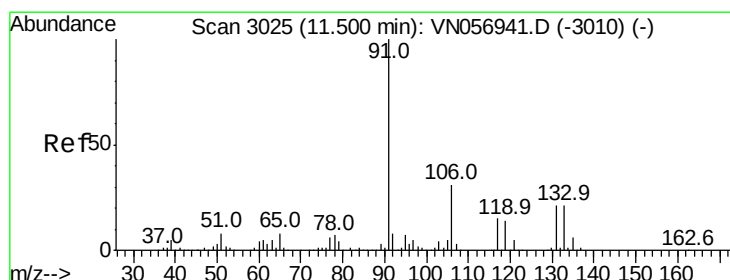
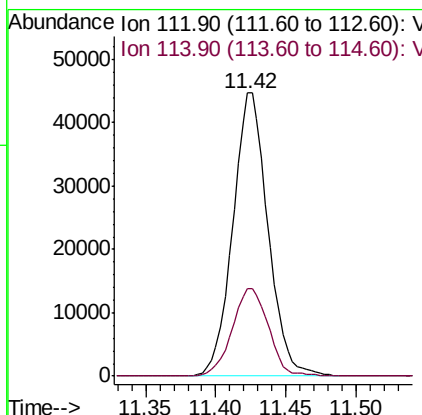
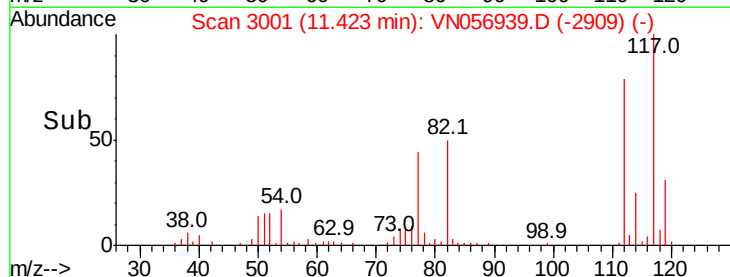
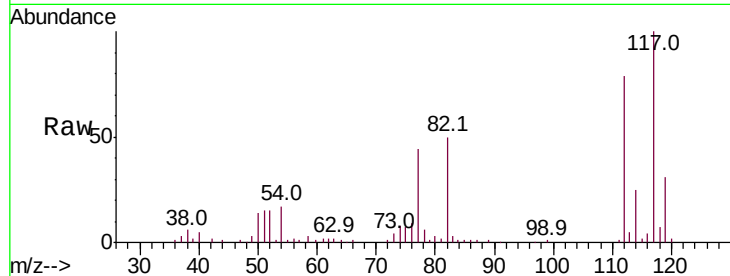
#65
Chlorobenzene
Concen: 5.138 ug/l
RT: 11.42 min Scan# 3001
Delta R.T. -0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion:112 Resp: 77944
Ion Ratio Lower Upper
112 100
114 31.2 26.0 39.0

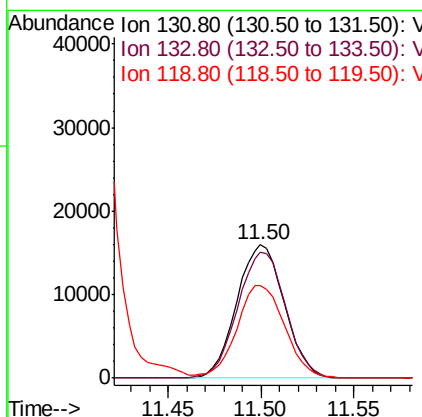
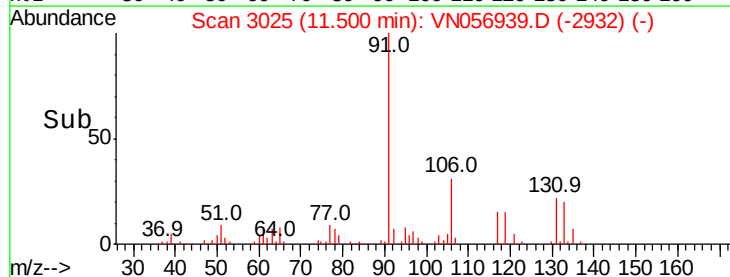
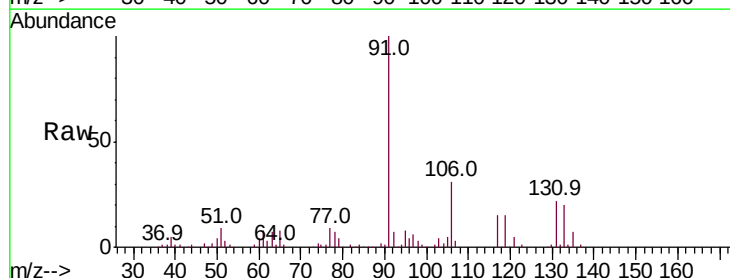
Manual Integrations
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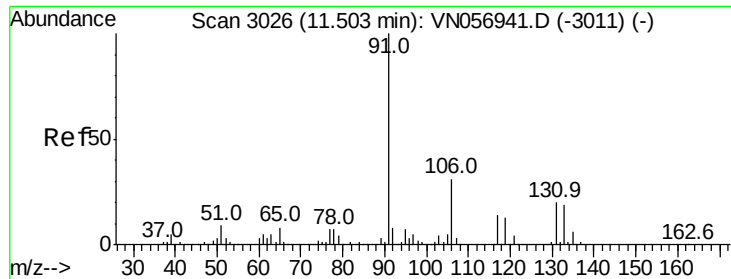
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 4.996 ug/l
RT: 11.50 min Scan# 3025
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion:131 Resp: 28295
Ion Ratio Lower Upper
131 100
133 95.8 48.0 144.0
119 70.3 33.2 99.6





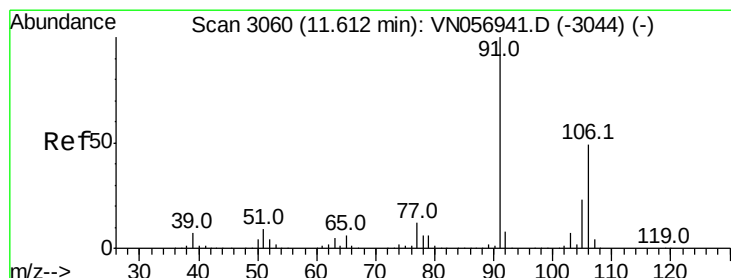
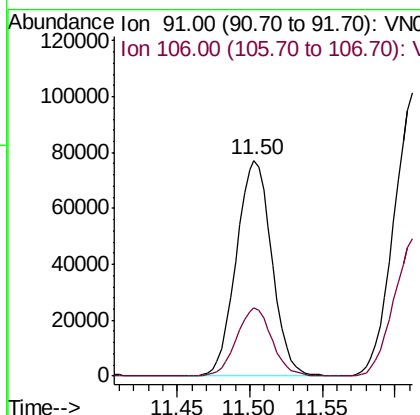
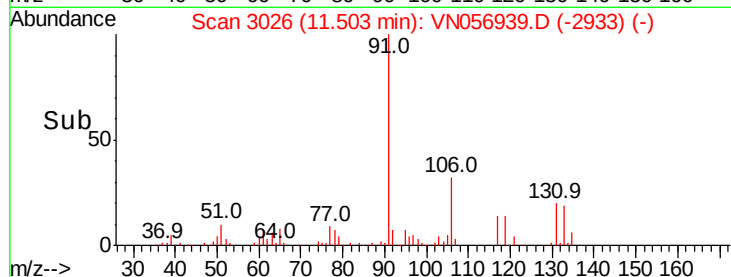
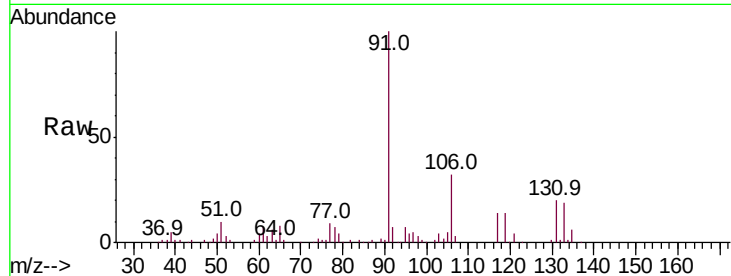
#67
Ethyl Benzene
Concen: 5.032 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 91 Resp: 131395
Ion Ratio Lower Upper
91 100
106 31.7 25.1 37.7

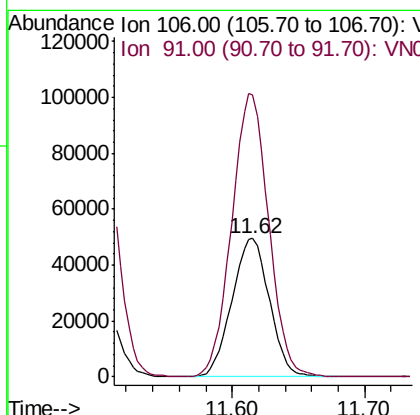
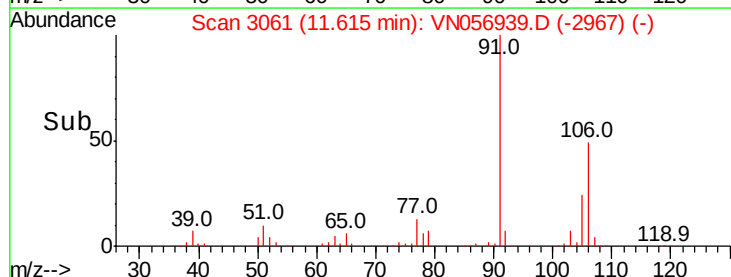
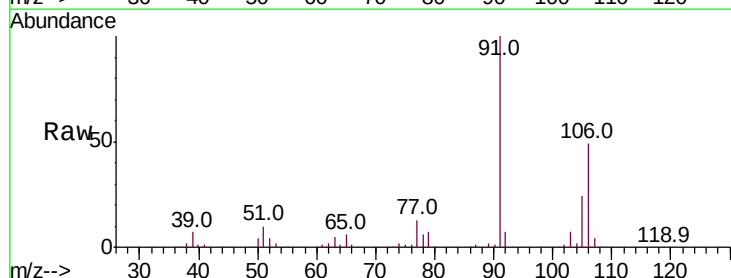
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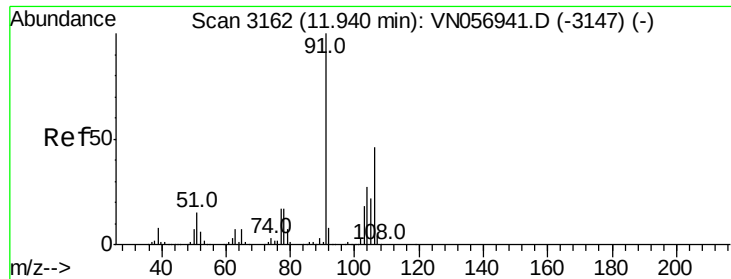
MMDadoda
8/2/2019 9:13:04 AM



#68
m/p-Xylenes
Concen: 9.983 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion: 106 Resp: 97076
Ion Ratio Lower Upper
106 100
91 200.4 160.0 240.0





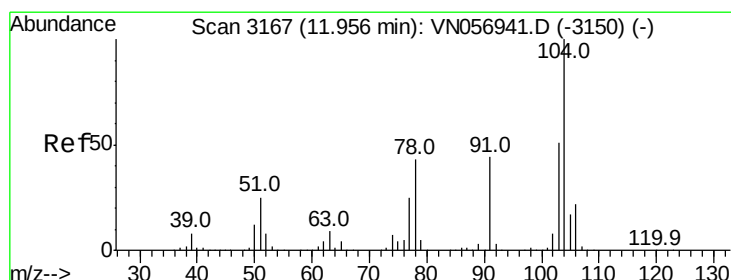
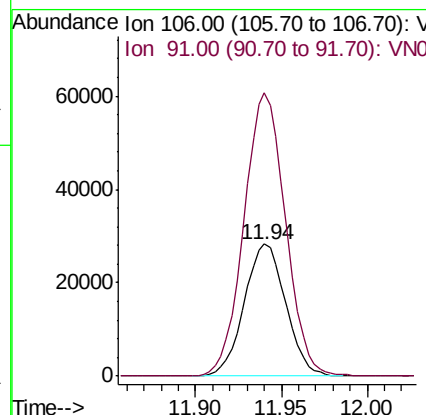
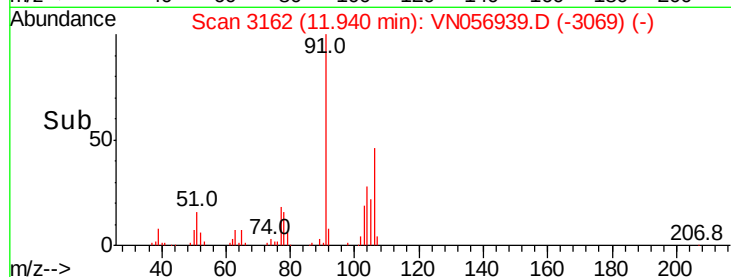
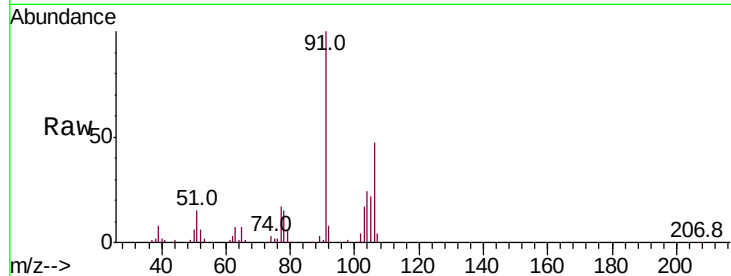
#69
o-Xylene
Concen: 4.988 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 47462
Ion Ratio Lower Upper
106 100
91 214.7 106.2 318.6

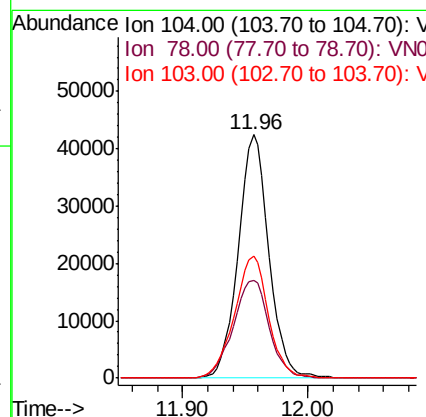
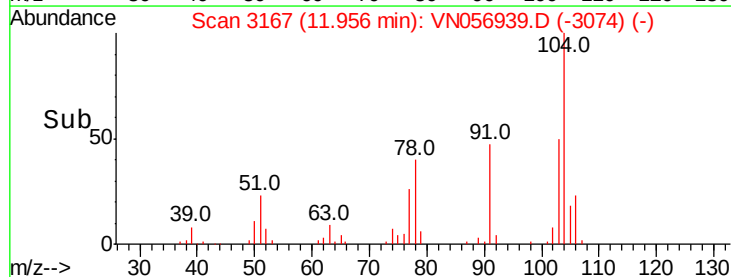
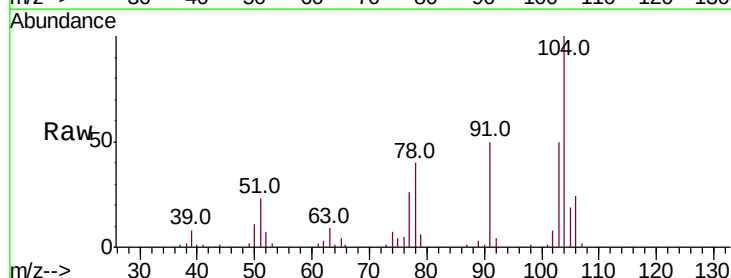
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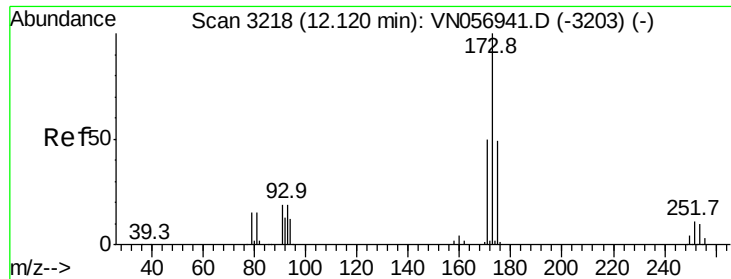
MMDadoda
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#70
Styrene
Concen: 4.775 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion:104 Resp: 71970
Ion Ratio Lower Upper
104 100
78 47.1 38.1 57.1
103 55.5 44.3 66.5





#71

Bromoform

Concen: 4.531 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion:173 Resp: 18008

Ion Ratio Lower Upper

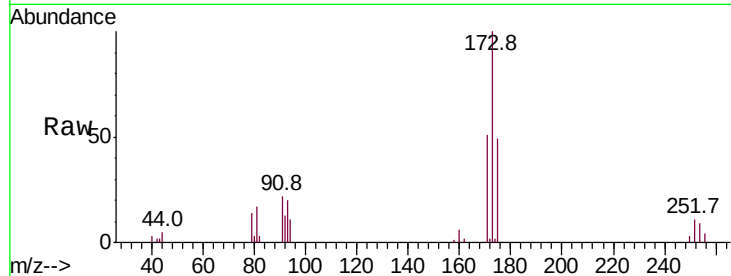
173 100

175 47.6 24.1 72.4

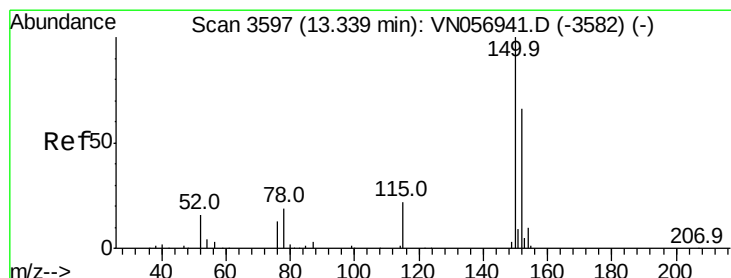
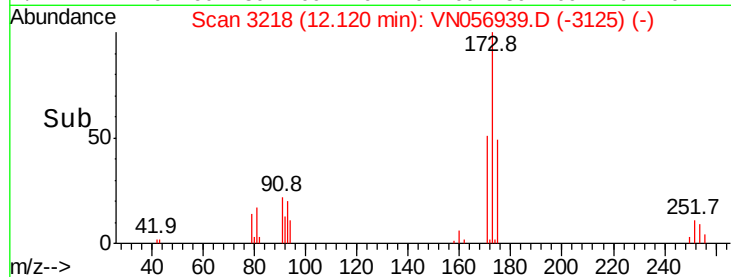
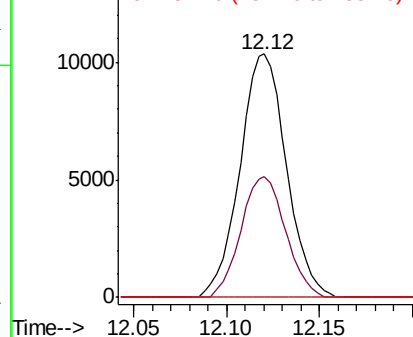
254 0.0 0.1 0.1#

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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# 3597

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

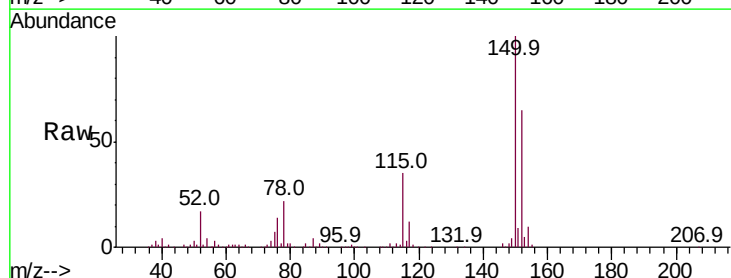
Tgt Ion:152 Resp: 245293

Ion Ratio Lower Upper

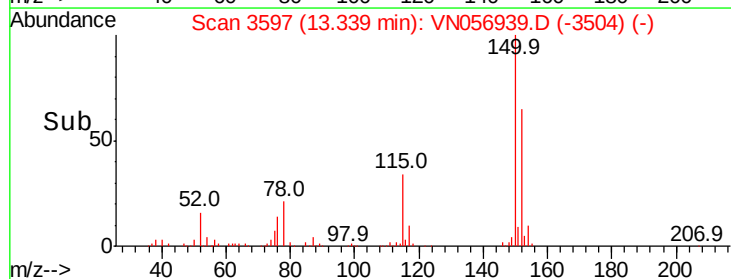
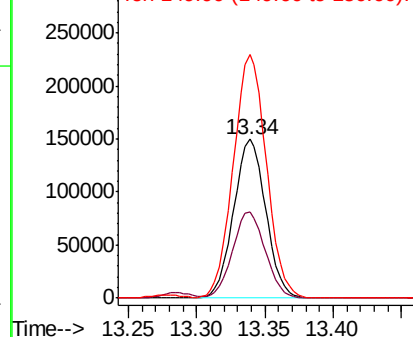
152 100

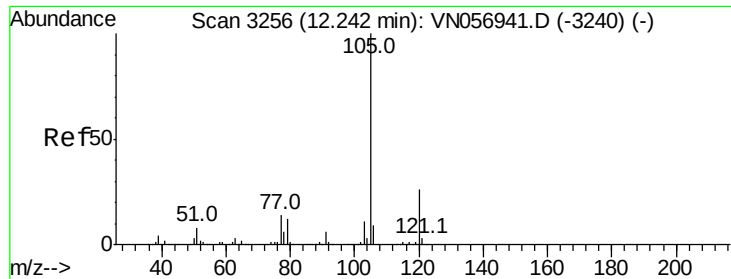
115 55.2 28.2 84.6

150 157.1 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





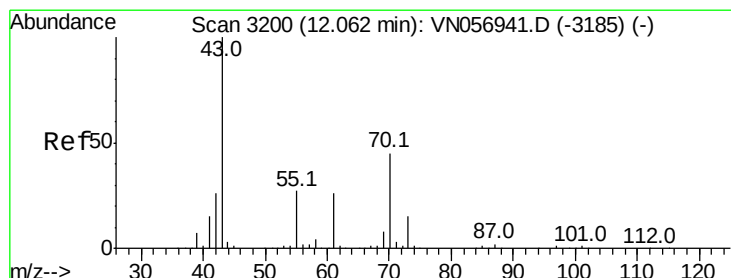
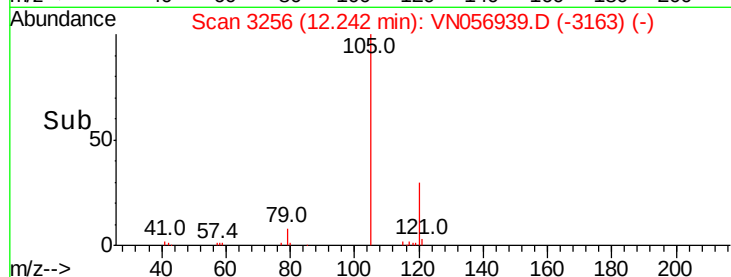
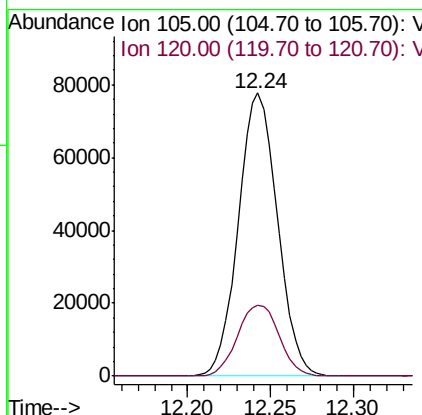
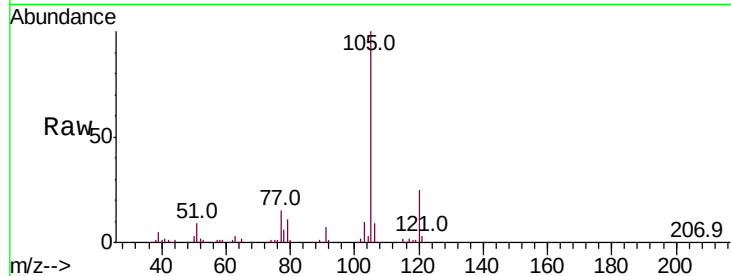
#73
Isopropylbenzene
Concen: 5.795 ug/l
RT: 12.24 min Scan# 3256
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.5	40.5

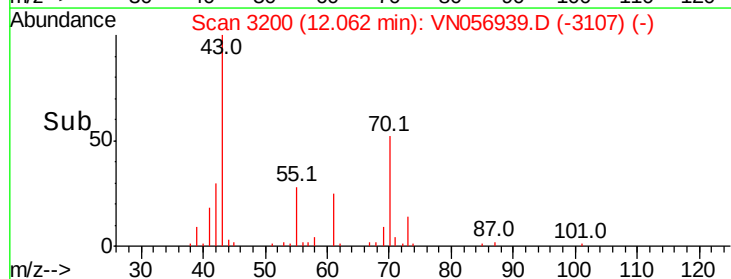
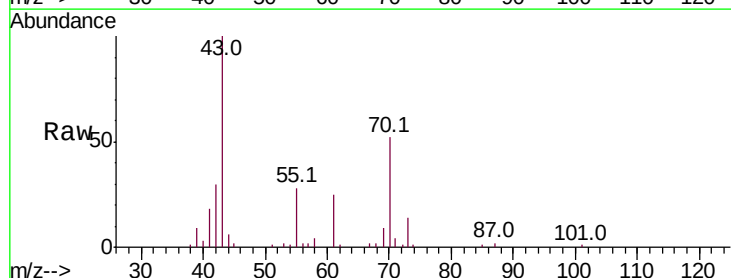
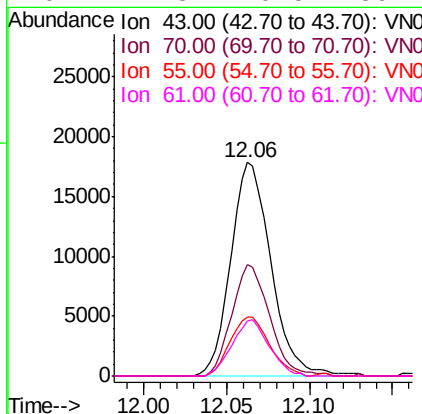
Manual Integrations
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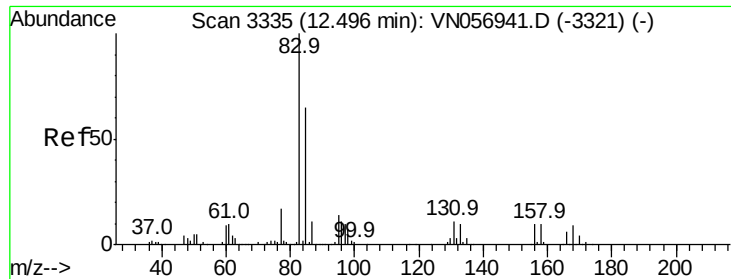
MMDadoda
8/2/2019 9:13:04 AM



#74
N-ethyl acetate
Concen: 4.635 ug/l
RT: 12.06 min Scan# 3200
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Lower	Upper
43	100		
70	48.8	36.5	54.7
55	26.8	21.4	32.0
61	24.3	20.5	30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 5.628 ug/l

RT: 12.50 min Scan# 3335

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Instrument :

MSVOA_N

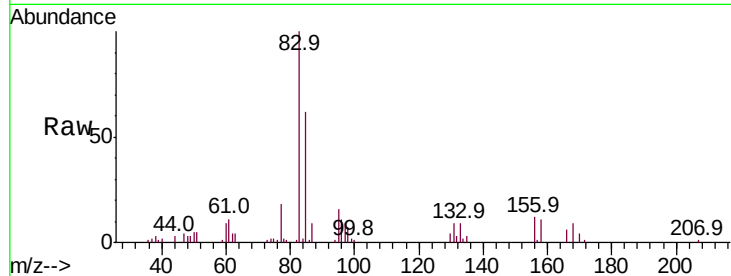
ClientSampleId :

VSTDIC005

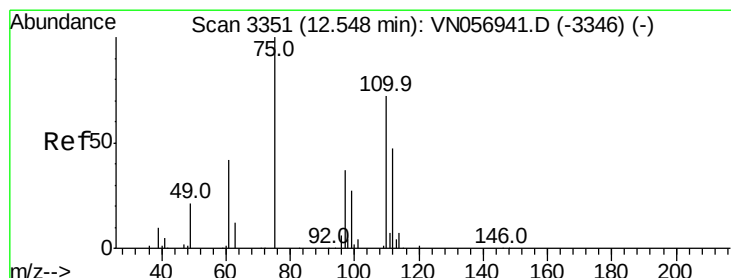
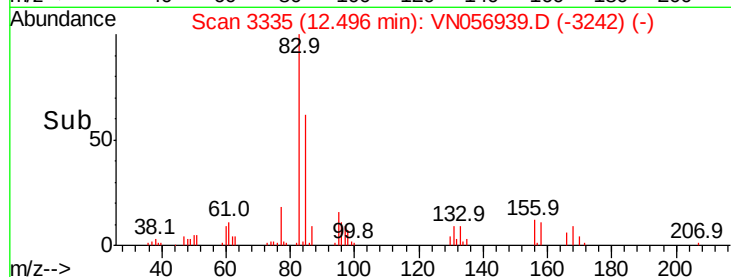
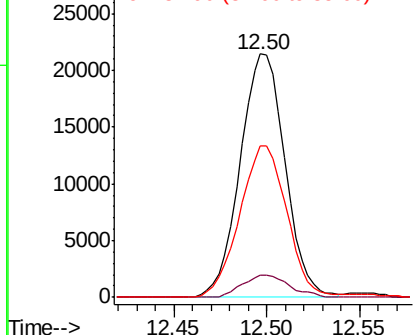
Tot Ion:	83	Resp:	36054
Ion Ratio	Lower	Upper	
83	100		
131	9.6	5.3	16.1
85	65.6	32.5	97.4

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 6.050 ug/l m

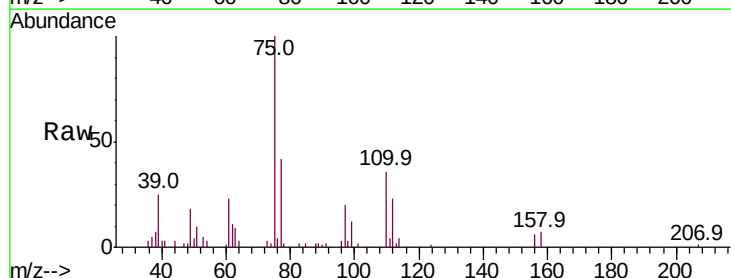
RT: 12.55 min Scan# 3351

Delta R.T. 0.00 min

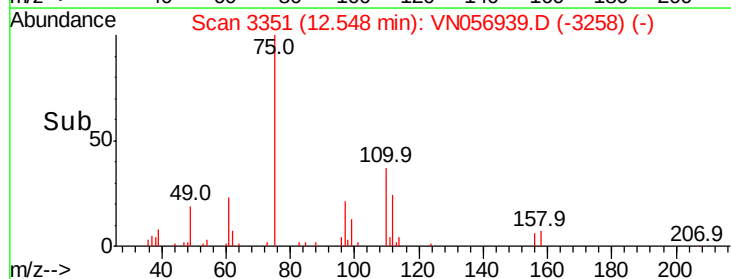
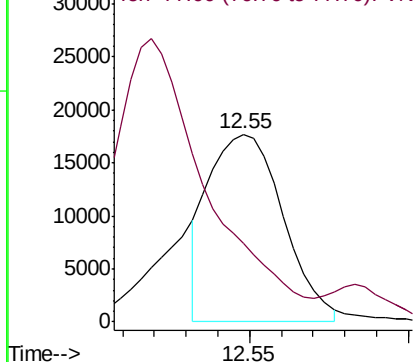
Lab File: VN056939.D

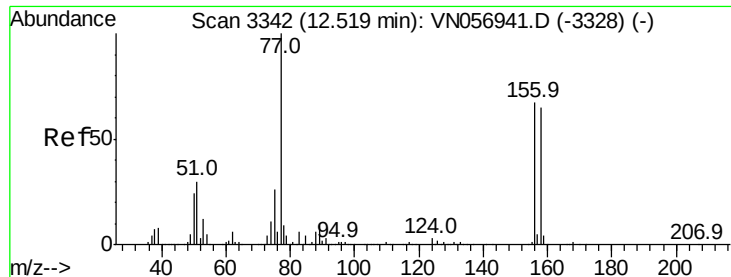
Acq: 26 Jul 2019 9:25

Tgt Ion:	75	Resp:	29059
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



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





#77

Bromobenzene

Concen: 5.630 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:156 Resp: 31699

Ion Ratio Lower Upper

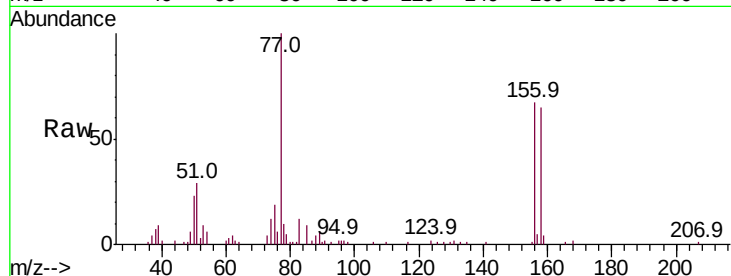
156 100

77 176.7 89.5 268.5

158 94.3 48.4 145.3

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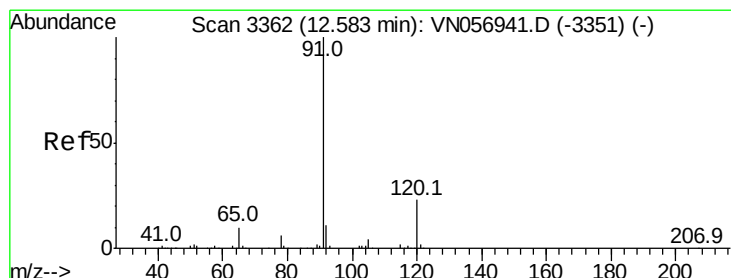
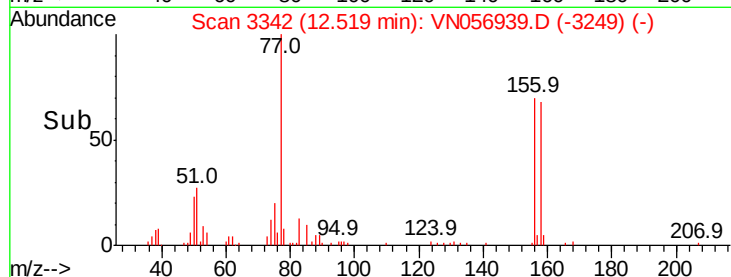
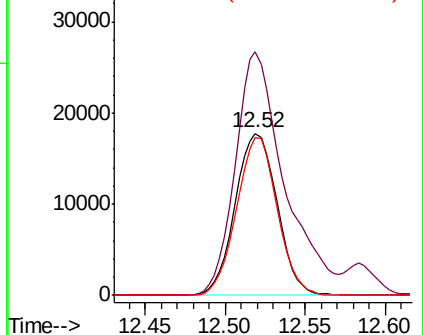
MMDadoda
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 5.415 ug/l

RT: 12.58 min Scan# 3362

Delta R.T. 0.00 min

Lab File: VN056939.D

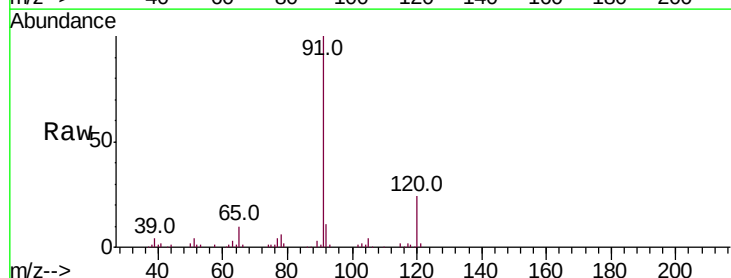
Acq: 26 Jul 2019 9:25

Tgt Ion: 91 Resp: 125793

Ion Ratio Lower Upper

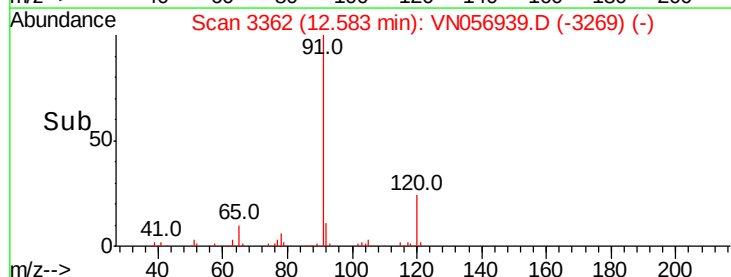
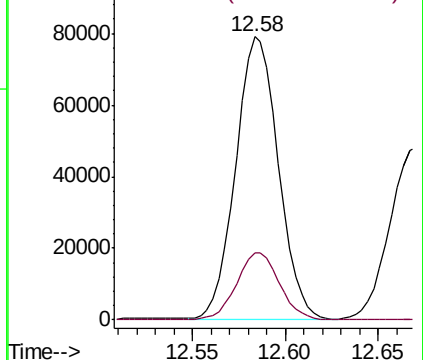
91 100

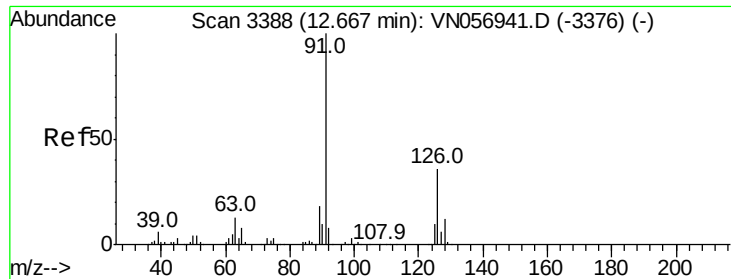
120 23.9 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.633 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 81462

Ion Ratio Lower Upper

91 100

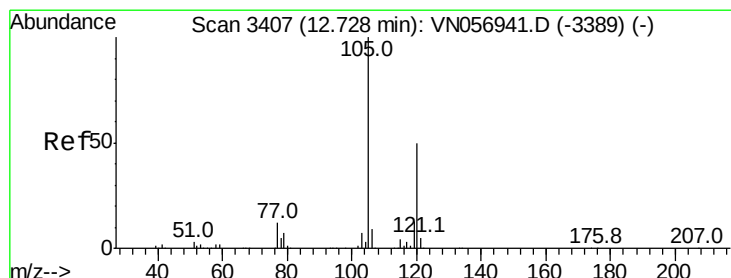
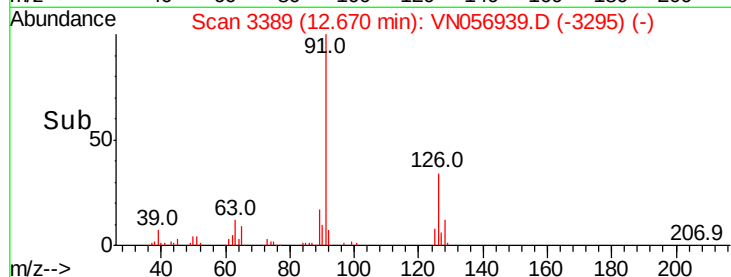
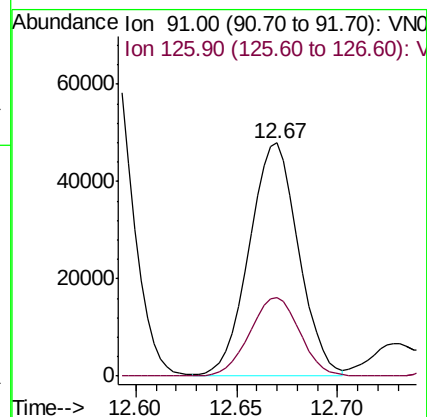
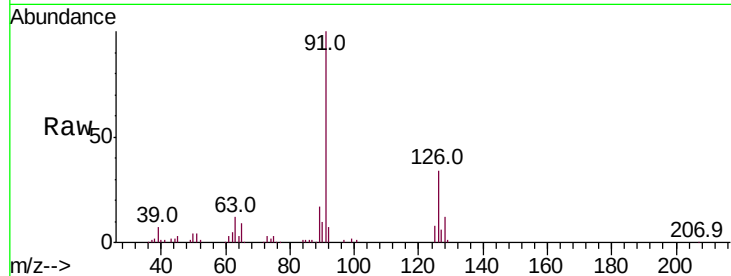
126 34.5 17.9 53.7

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#80

1,3,5-Trimethylbenzene

Concen: 5.718 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN056939.D

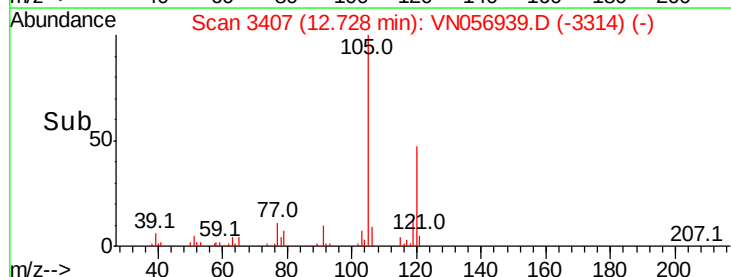
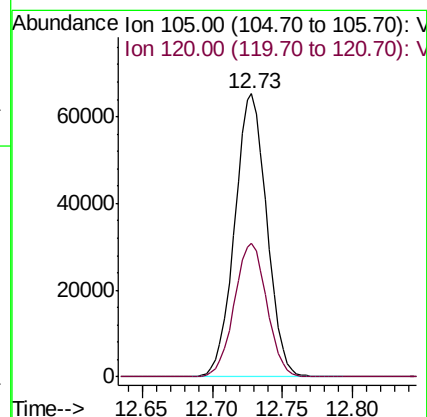
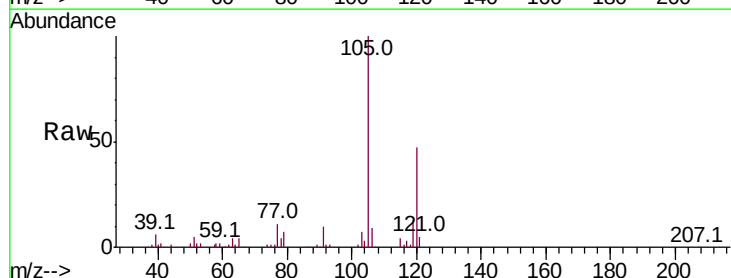
Acq: 26 Jul 2019 9:25

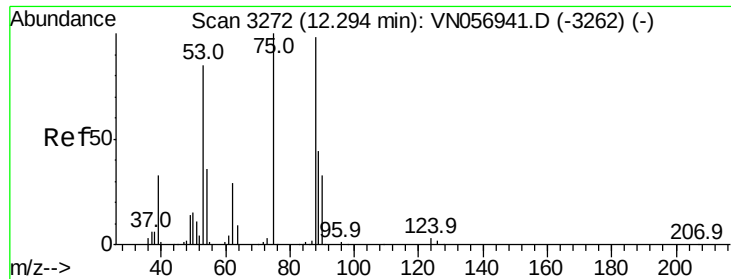
Tgt Ion: 105 Resp: 103820

Ion Ratio Lower Upper

105 100

120 47.9 24.8 74.3





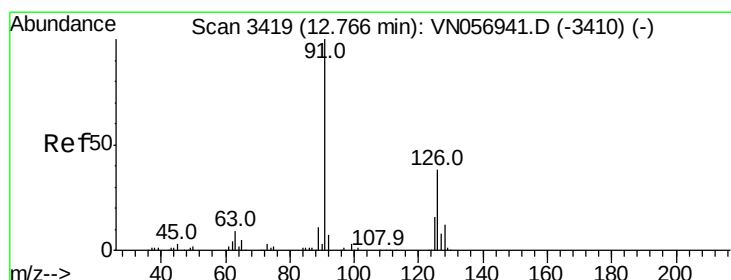
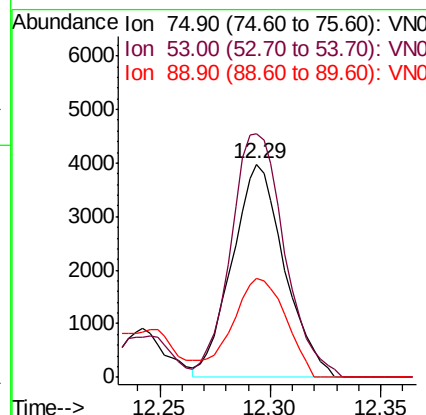
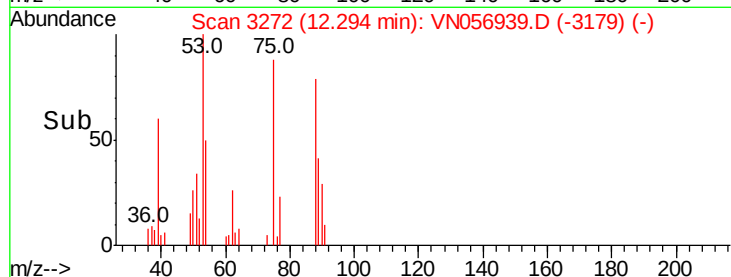
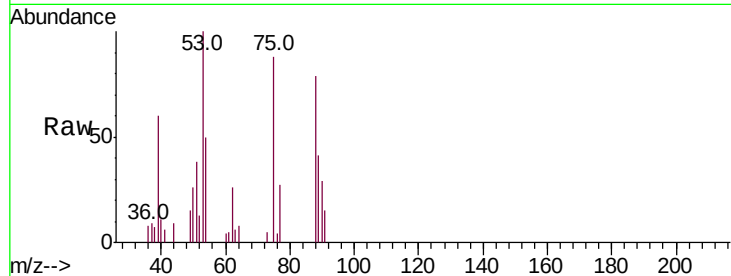
#81
trans-1,4-Dichloro-2-butene
Concen: 4.210 ug/l
RT: 12.29 min Scan# 3272
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	117.5	69.3	103.9#
89	47.4	35.8	53.6

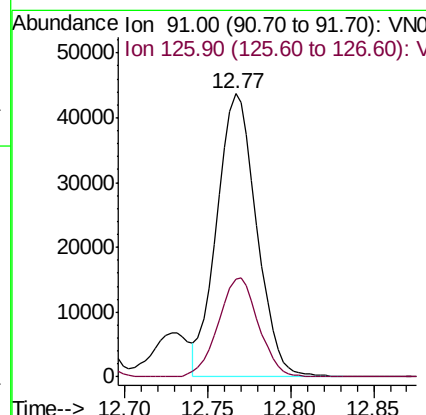
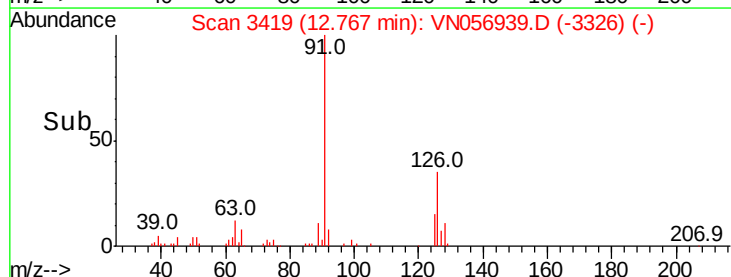
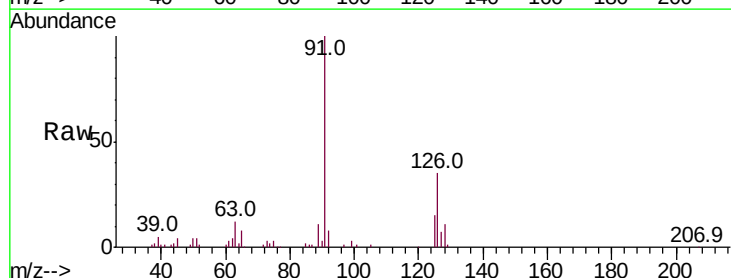
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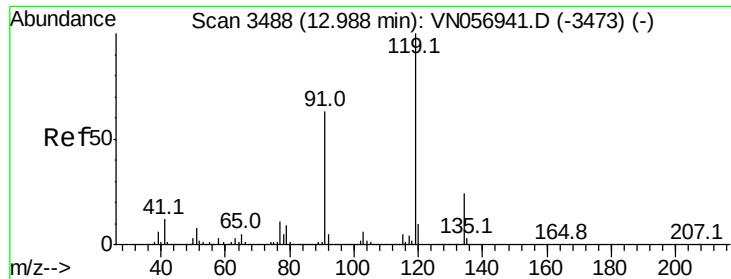
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#82
4-Chlorotoluene
Concen: 5.505 ug/l
RT: 12.77 min Scan# 3419
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.2	17.5	52.5





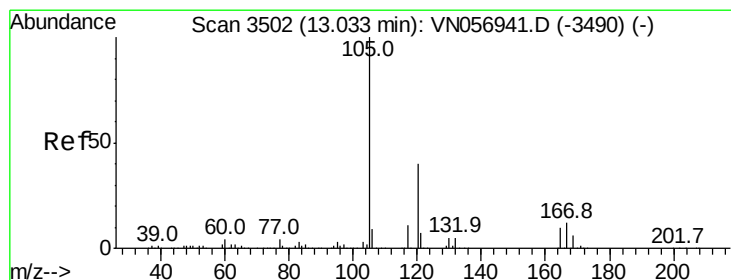
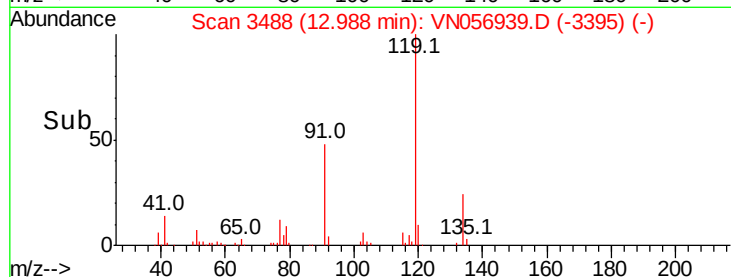
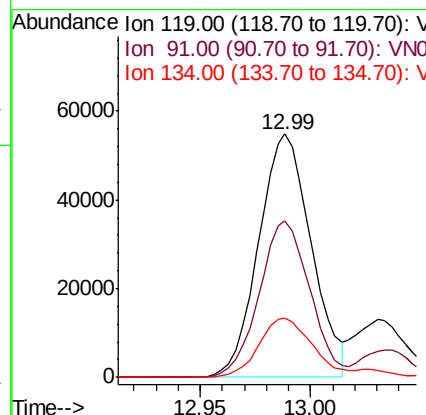
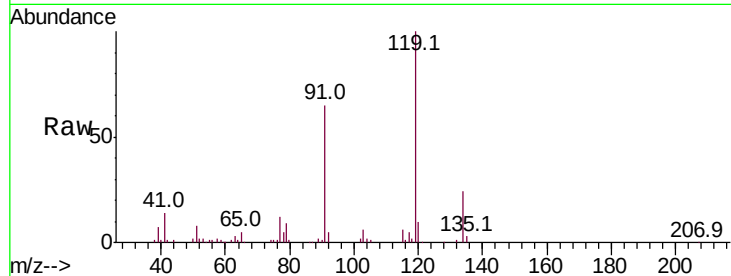
#83
tert-Butylbenzene
Concen: 5.663 ug/l
RT: 12.99 min Scan# 3488
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
119	100			
91	62.1	31.3	93.8	
134	25.1	13.3	39.8	

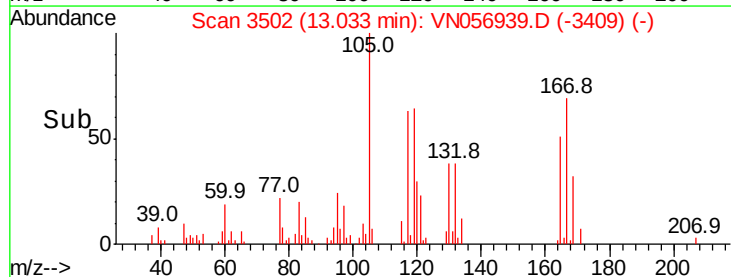
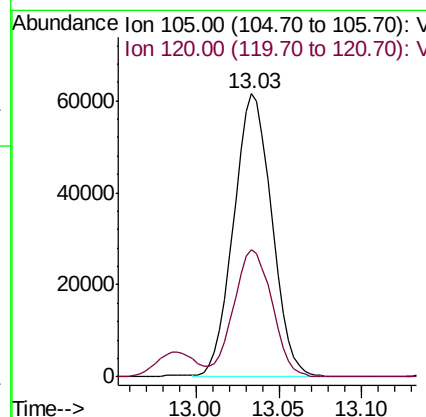
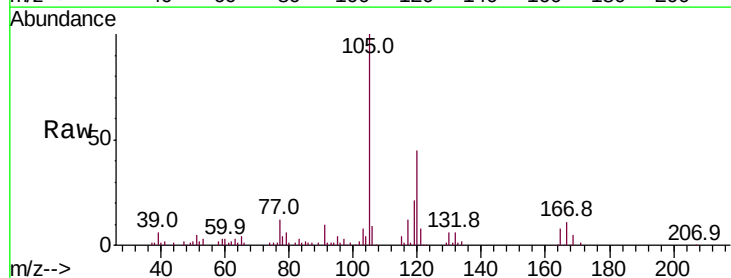
Manual Integrations
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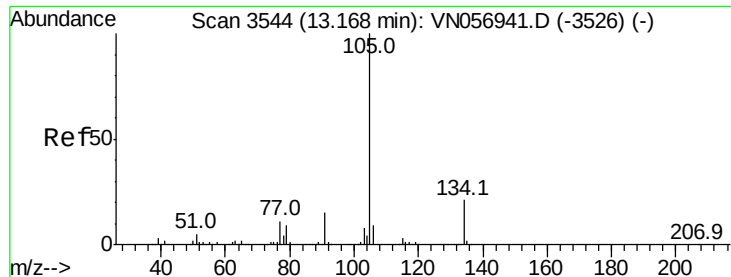
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 5.739 ug/l
RT: 13.03 min Scan# 3502
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Resp	Lower	Upper
105	100			
120	45.2	23.2	69.6	





#85

sec-Butylbenzene

Concen: 5.835 ug/l

RT: 13.17 min Scan# 3543

Delta R.T. -0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 118039

Ion Ratio Lower Upper

105 100

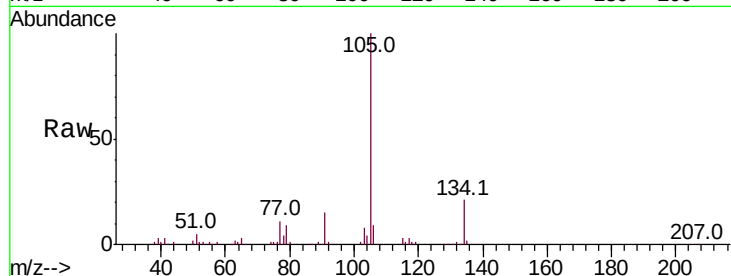
134 20.7 10.3 30.8

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

80000

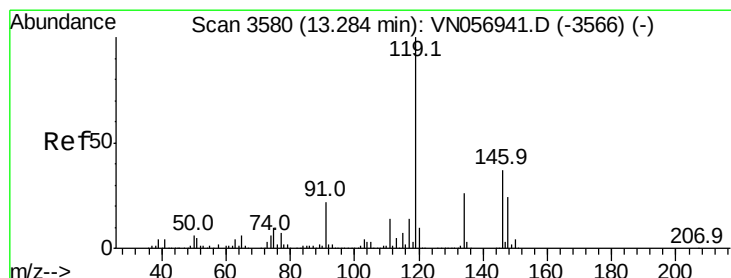
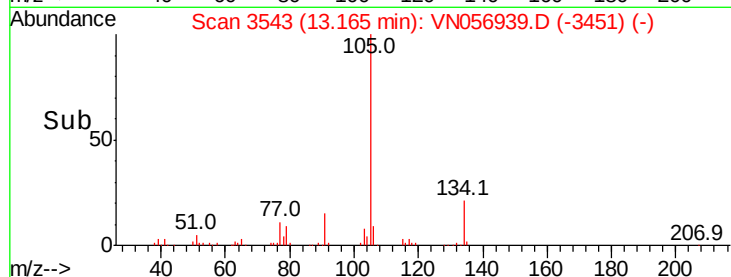
60000

40000

20000

0

Time-->



#86

p-Isopropyltoluene

Concen: 5.641 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN056939.D

Acq: 26 Jul 2019 9:25

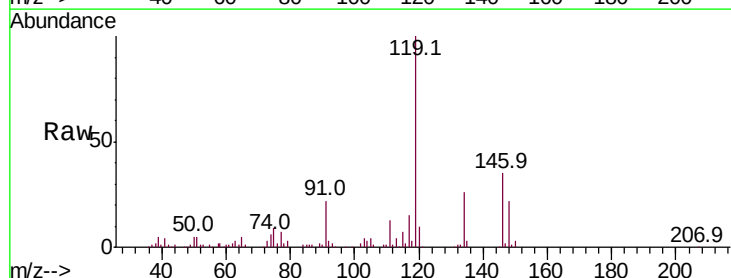
Tgt Ion:119 Resp: 100959

Ion Ratio Lower Upper

119 100

134 25.8 13.4 40.1

91 22.3 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

13.28

80000

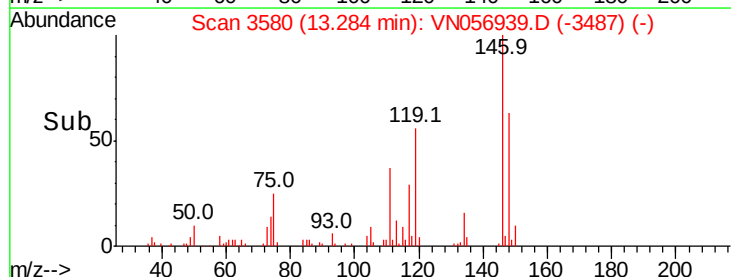
60000

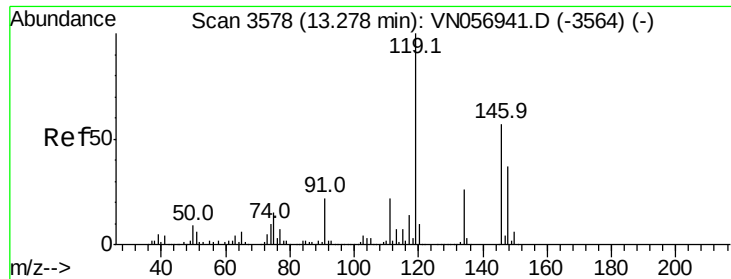
40000

20000

0

Time-->





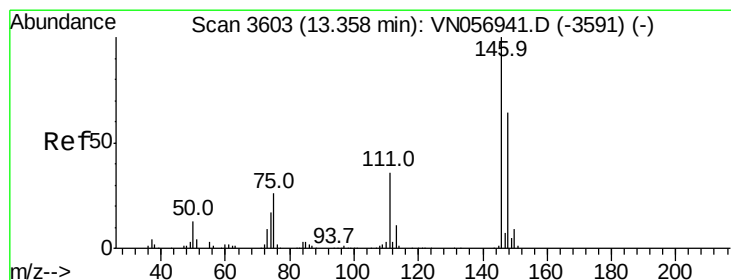
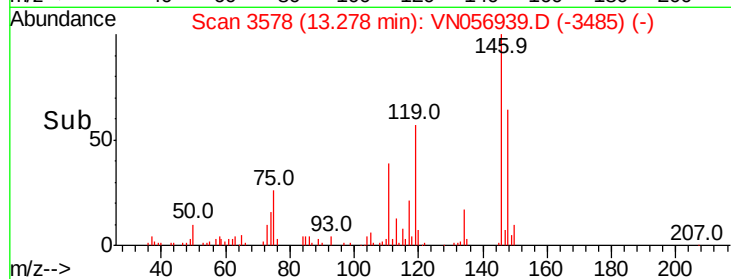
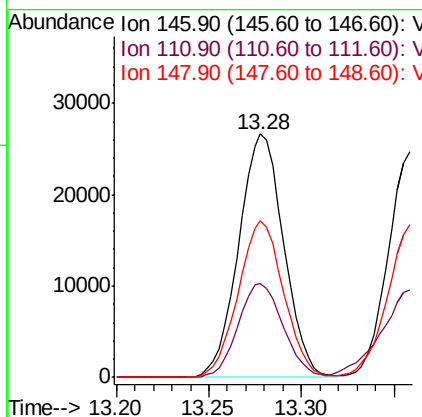
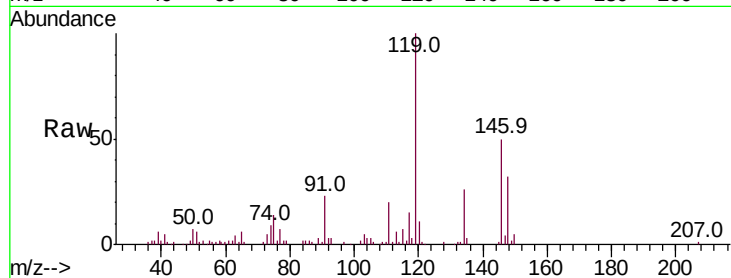
#87
 1,3-Dichlorobenzene
 Concen: 5.324 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	18.6	55.8
148	64.7	32.2	96.6

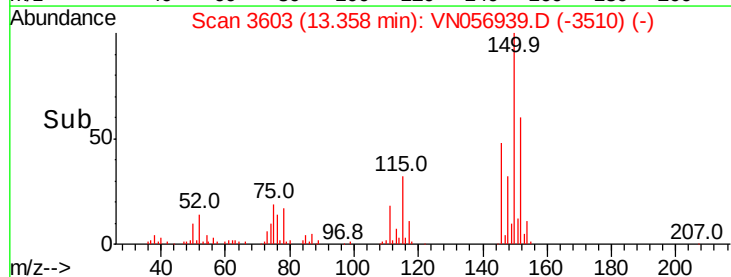
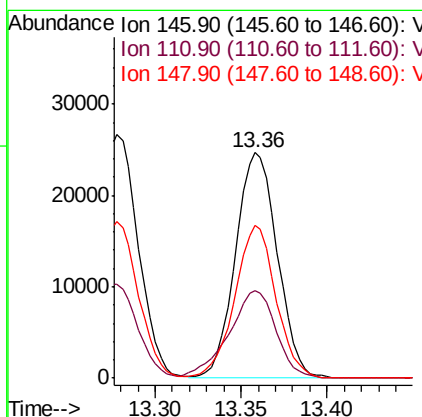
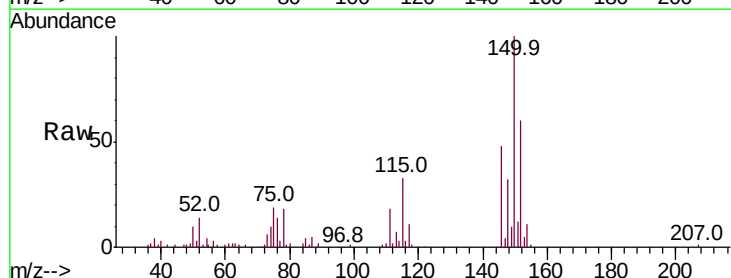
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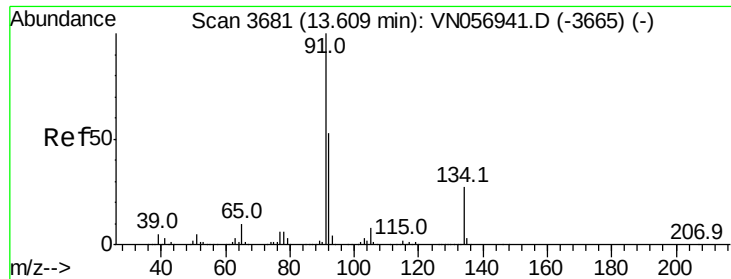
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#88
 1,4-Dichlorobenzene
 Concen: 5.179 ug/l
 RT: 13.36 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.8	18.4	55.2
148	66.4	32.3	96.9





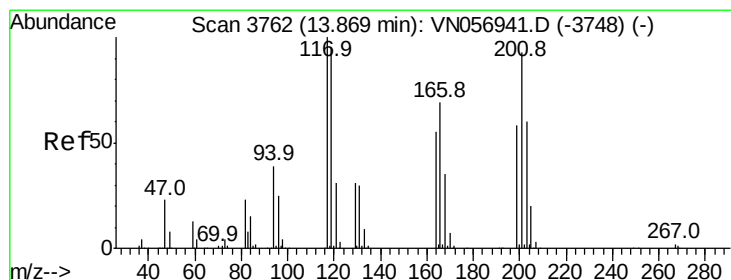
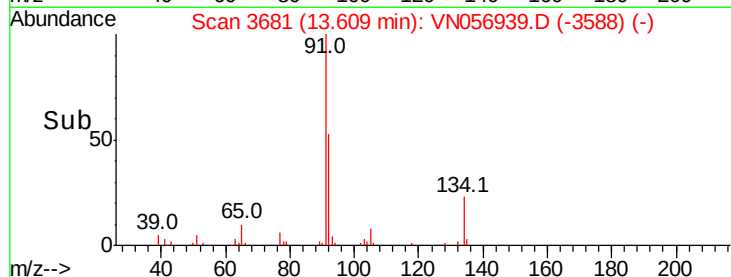
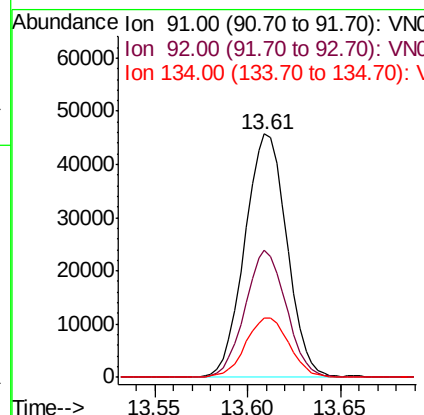
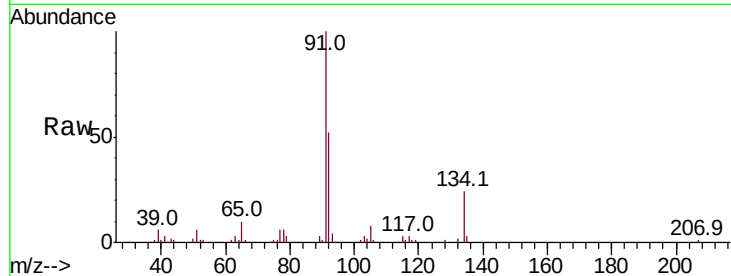
#89
n-Butylbenzene
Concen: 5.234 ug/l
RT: 13.61 min Scan# 3681
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.9	26.2	78.5
134	25.1	13.5	40.4

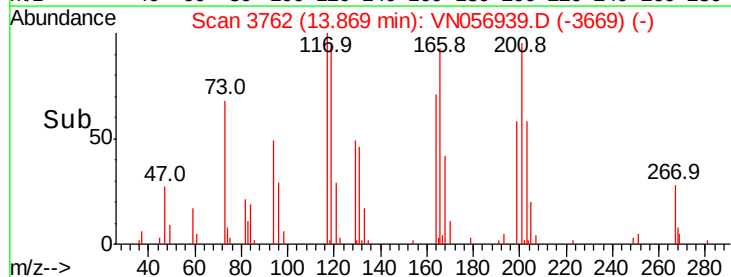
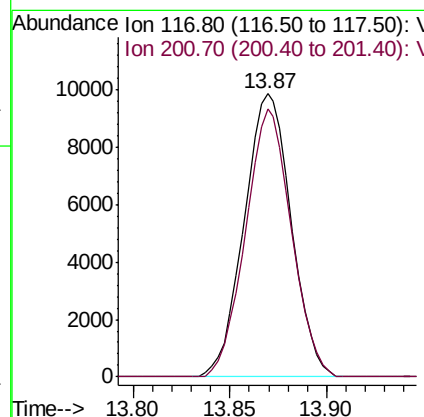
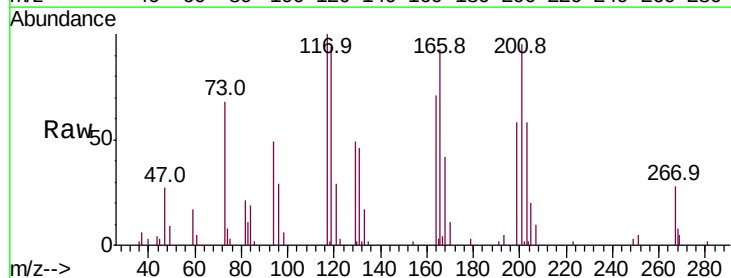
Manual Integrations
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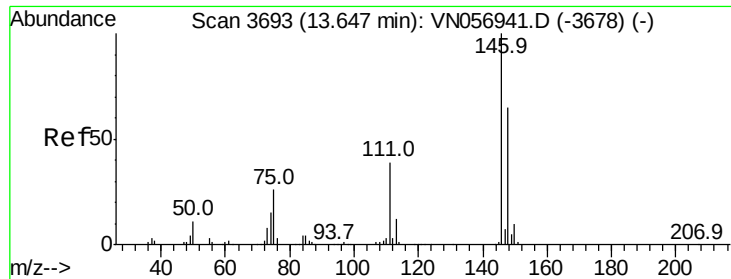
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#90
Hexachloroethane
Concen: 5.226 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.2	47.0	141.2





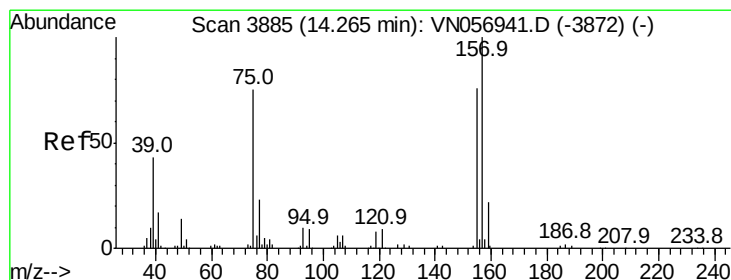
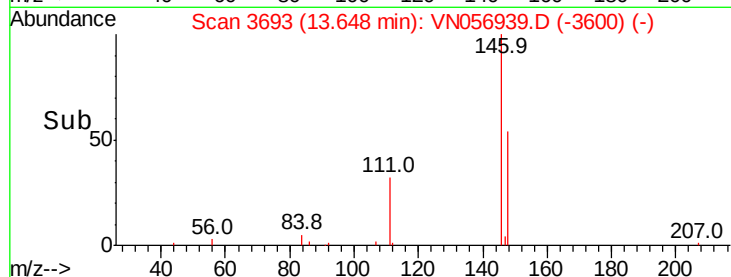
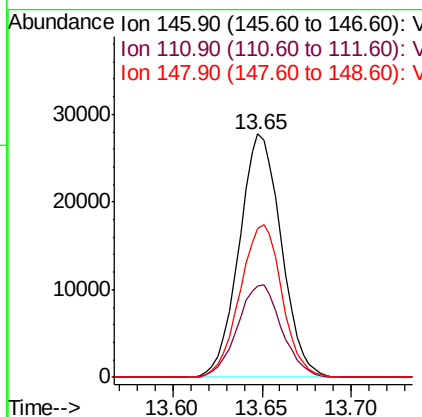
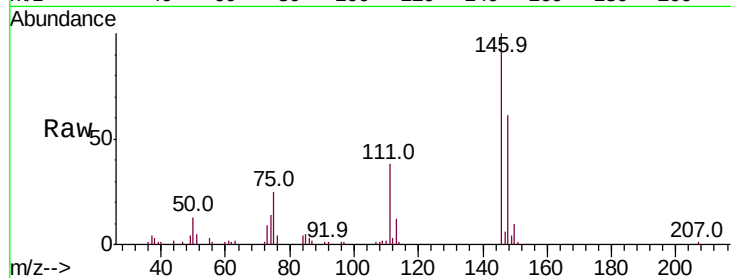
#91
 1,2-Dichlorobenzene
 Concen: 5.354 ug/l
 RT: 13.65 min Scan# 3693
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.4	58.4
148	62.6	32.2	96.6

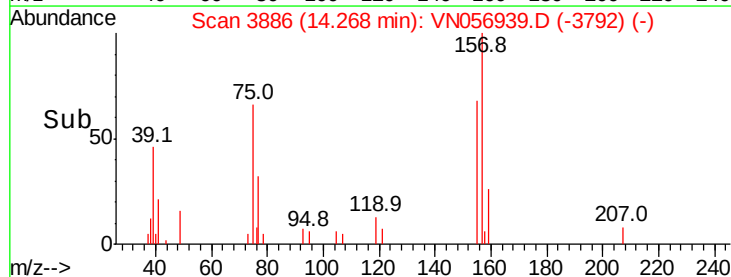
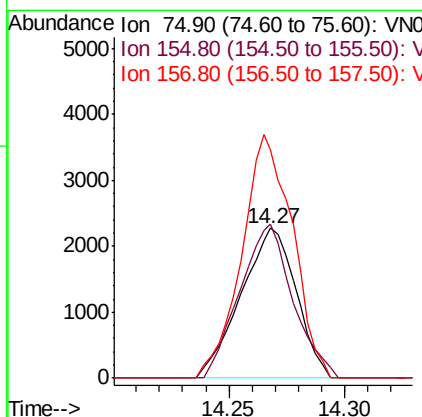
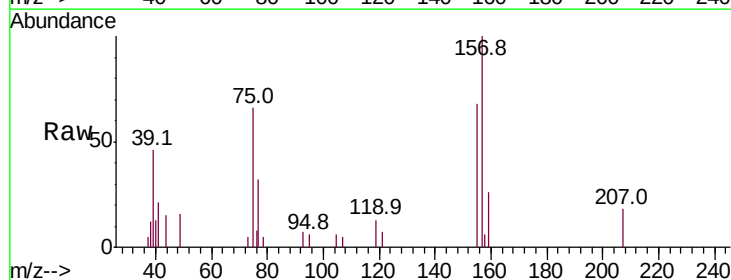
Manual Integrations
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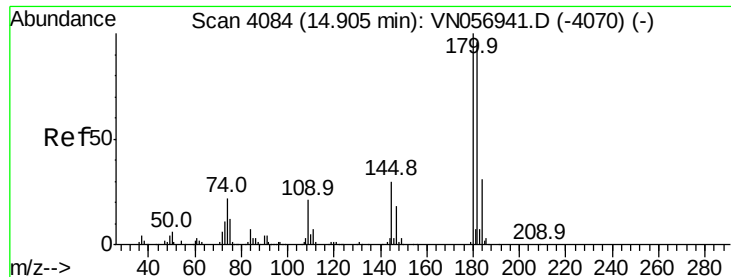
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 8/2/2019 9:13:04 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.291 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.8	50.2	150.6
157	149.3	65.1	195.4





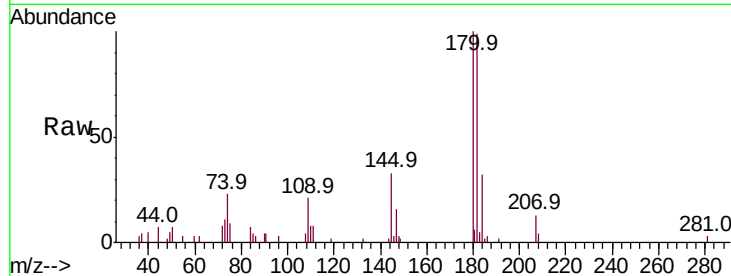
#93
 1,2,4-Trichlorobenzene
 Concen: 3.628 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.6	47.6	142.8	
145	30.2	14.2	42.8	

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MMDadoda
 8/2/2019 9:13:04 AM

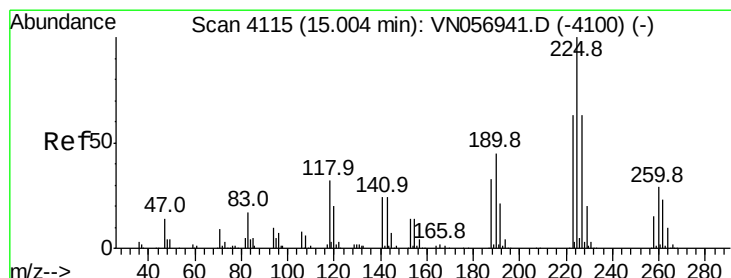
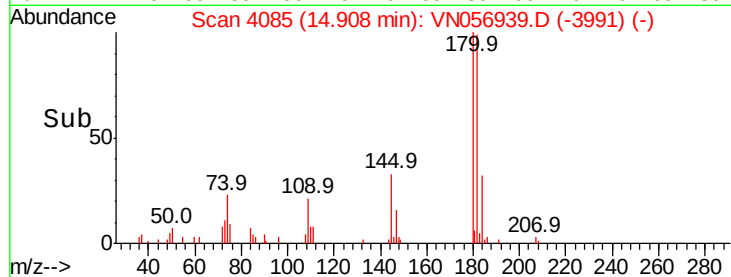
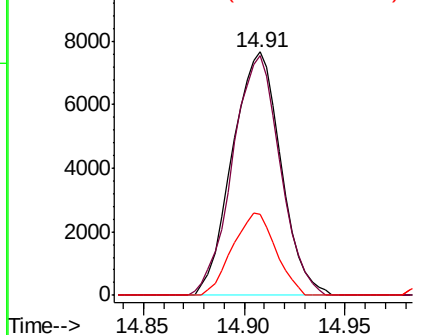


Abundance

Ion 179.80 (179.50 to 180.50): V

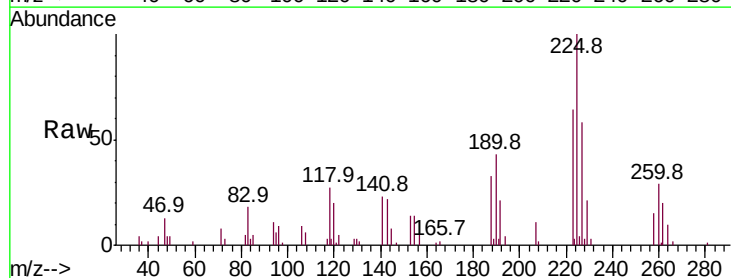
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 6.248 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. 0.00 min
 Lab File: VN056939.D
 Acq: 26 Jul 2019 9:25

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	58.4	30.8	92.4	
227	55.8	31.1	93.5	

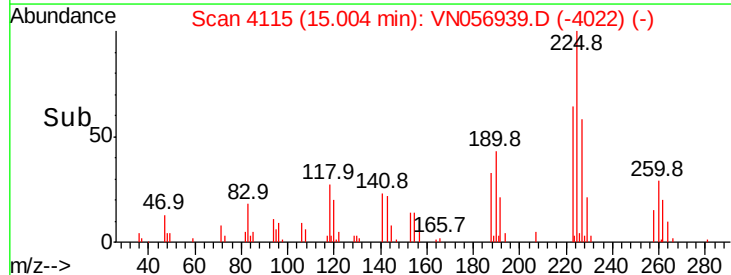
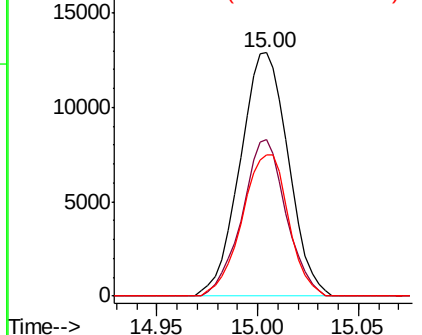


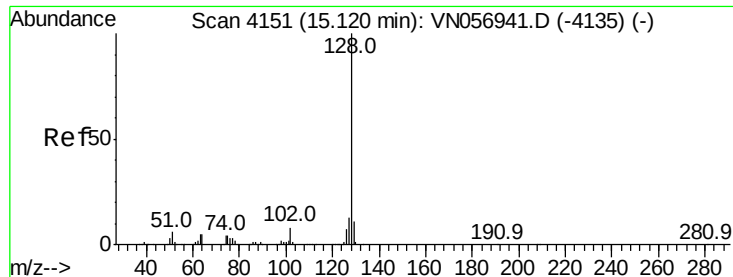
Abundance

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





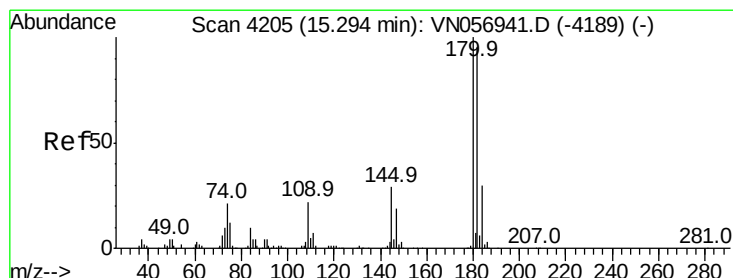
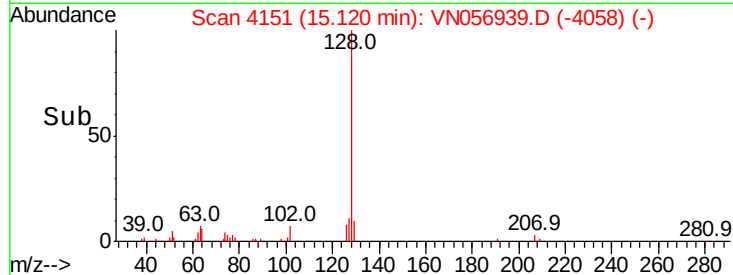
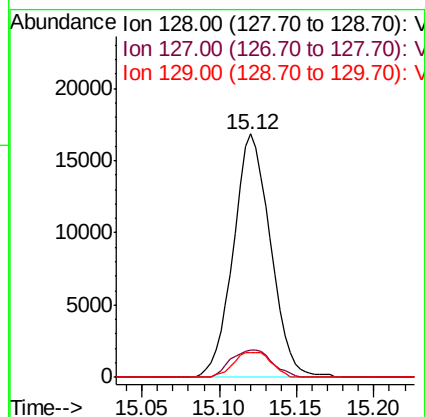
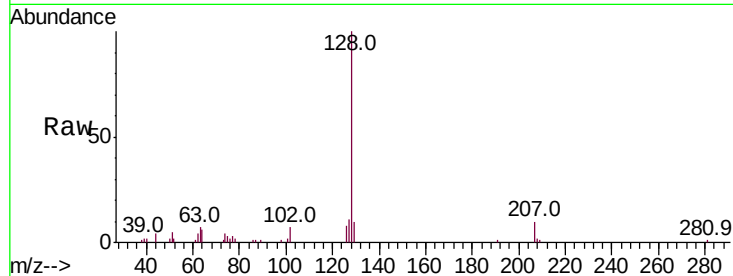
#95
Naphthalene
Concen: 3.172 ug/l
RT: 15.12 min Scan# 4151
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:128	Resp:	28119
Ion Ratio	Lower	Upper
128 100		
127 12.5	10.0	15.0
129 10.4	8.7	13.1

Manual Integrations
APPROVED

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#96
1,2,3-Trichlorobenzene
Concen: 3.787 ug/l
RT: 15.29 min Scan# 4205
Delta R.T. 0.00 min
Lab File: VN056939.D
Acq: 26 Jul 2019 9:25

Tgt Ion:180	Resp:	14465
Ion Ratio	Lower	Upper
180 100		
182 100.3	48.0	144.2
145 28.8	15.0	45.0

