

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042919\
 Data File : VN055287.D
 Acq On : 29 Apr 2019 11:57
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 4/30/2019 11:59:10 AM

Quant Time: Apr 30 03:52:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 03:41:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	432078	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	697094	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	615054	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	258601	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	539219	92.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	185.48%	
35) Dibromofluoromethane	7.59	113	430317	91.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	183.74%	
50) Toluene-d8	10.09	98	1625688	93.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	187.38%	
62) 4-Bromofluorobenzene	12.40	95	545203	99.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	199.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	522268	95.267	ug/l	100
3) Chloromethane	2.06	50	613271	91.363	ug/l	99
4) Vinyl Chloride	2.19	62	487434	90.697	ug/l	100
5) Bromomethane	2.55	94	266959	85.091	ug/l	98
6) Chloroethane	2.70	64	262411	91.897	ug/l	98
7) Trichlorofluoromethane	3.02	101	689498	93.517	ug/l	98
8) Diethyl Ether	3.41	74	252605	96.062	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	414051	90.012	ug/l	100
10) Methyl Iodide	3.95	142	634238	98.995	ug/l	100
11) Tert butyl alcohol	4.79	59	163849	484.409	ug/l	99
12) 1,1-Dichloroethene	3.74	96	404688	92.273	ug/l	99
13) Acrolein	3.61	56	127611	303.542	ug/l	99
14) Allyl chloride	4.33	41	859854	98.175	ug/l	99
15) Acrylonitrile	4.99	53	894570	481.342	ug/l	99
16) Acetone	3.82	43	779813	421.084	ug/l	98
17) Carbon Disulfide	4.06	76	1116186	91.877	ug/l	99
18) Methyl Acetate	4.32	43	422707	80.098	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	1187394	96.919	ug/l	100
20) Methylene Chloride	4.55	84	471230	85.475	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	424688	92.299	ug/l	97
22) Diisopropyl ether	5.95	45	1703231	97.252	ug/l	100
23) Vinyl Acetate	5.90	43	6102024	522.003	ug/l	100
24) 1,1-Dichloroethane	5.85	63	876455	93.611	ug/l	100
25) 2-Butanone	6.83	43	1115119	455.775	ug/l	99
26) 2,2-Dichloropropane	6.83	77	623372	97.845	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	493484	92.628	ug/l	98
28) Bromochloromethane	7.20	49	444353	93.037	ug/l	99
29) Tetrahydrofuran	7.21	42	717366	471.332	ug/l	99
30) Chloroform	7.37	83	828875	92.962	ug/l	100
31) Cyclohexane	7.65	56	820184	76.525	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	696641	97.431	ug/l	99
36) 1,1-Dichloropropene	7.79	75	629686	98.627	ug/l	100
37) Ethyl Acetate	6.93	43	487423	94.543	ug/l	98
38) Carbon Tetrachloride	7.77	117	597390	99.187	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	693844	91.252	ug/l	99
40) Benzene	8.04	78	1873327	94.492	ug/l	100
41) Methacrylonitrile	7.18	41	277917	102.554	ug/l	98
42) 1,2-Dichloroethane	8.12	62	650599	94.031	ug/l	100
43) Isopropyl Acetate	8.16	43	851394	101.460	ug/l	99
44) Trichloroethene	8.84	130	468339	93.682	ug/l	99
45) 1,2-Dichloropropane	9.12	63	530894	94.609	ug/l	100
46) Dibromomethane	9.21	93	290275	90.854	ug/l	99
47) Bromodichloromethane	9.40	83	647271	100.740	ug/l	98
48) Methyl methacrylate	9.20	41	407521	99.561	ug/l	97
49) 1,4-Dioxane	9.20	88	85042	1841.821	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	2339280	484.580	ug/l	99
52) Toluene	10.16	92	1090372	94.284	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	644069	109.269	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	766417	104.786	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	397721	92.743	ug/l	98
56) Ethyl methacrylate	10.43	69	562614	105.631	ug/l	100
57) 1,3-Dichloropropane	10.71	76	719275	96.522	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	839115	510.453	ug/l	100
59) 2-Hexanone	10.75	43	1465432	486.316	ug/l	99
60) Dibromochloromethane	10.90	129	452707	102.351	ug/l	100
61) 1,2-Dibromoethane	11.00	107	392579	97.786	ug/l	99
64) Tetrachloroethene	10.63	164	425828	85.544	ug/l	99
65) Chlorobenzene	11.43	112	1136747	91.355	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	440679	95.116	ug/l	100
67) Ethyl Benzene	11.51	91	2085122	94.005	ug/l	99
68) m/p-Xylenes	11.62	106	1500151	189.187	ug/l	99
69) o-Xylene	11.95	106	733629	93.132	ug/l	100
70) Styrene	11.96	104	1241967	101.946	ug/l	100
71) Bromoform	12.13	173	283603	103.531	ug/l #	98
73) Isopropylbenzene	12.25	105	1963345	78.815	ug/l	100
74) N-amyl acetate	12.07	43	660255	99.133	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	488970	74.418	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	463277m	87.266	ug/l	
77) Bromobenzene	12.53	156	478398	84.002	ug/l	99
78) n-propylbenzene	12.59	91	2234730	86.022	ug/l	100
79) 2-Chlorotoluene	12.67	91	1346832	82.108	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1624739	83.899	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	131736	95.014	ug/l	98
82) 4-Chlorotoluene	12.77	91	1328837	88.415	ug/l	100
83) tert-Butylbenzene	12.99	119	1377468	79.464	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1591351	87.193	ug/l	100
85) sec-Butylbenzene	13.17	105	1792470	81.739	ug/l	99
86) p-Isopropyltoluene	13.29	119	1581422	87.665	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	795763	91.522	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	778231	91.795	ug/l	100
89) n-Butylbenzene	13.61	91	1345599	101.278	ug/l	100
90) Hexachloroethane	13.87	117	280986	87.336	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	762060	85.461	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	71537	91.333	ug/l	98

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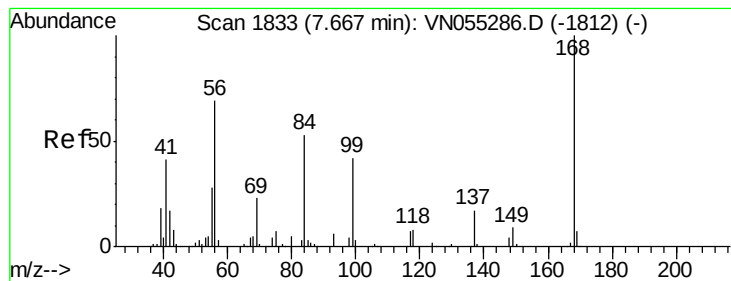
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	357911	115.445	ug/l	98
94) Hexachlorobutadiene	15.01	225	246714	76.553	ug/l	97
95) Naphthalene	15.13	128	765165	117.191	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	347903	108.064	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

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Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:168 Resp: 432078

Ion Ratio Lower Upper

168 100

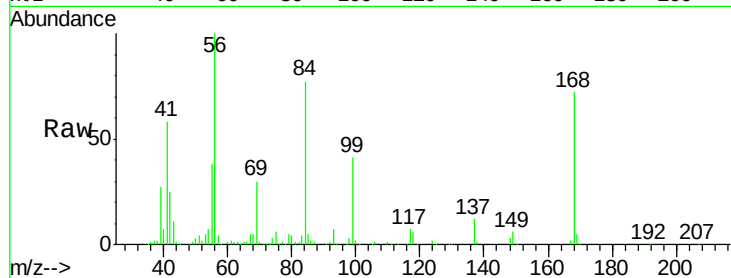
99 56.6 43.6 65.4

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

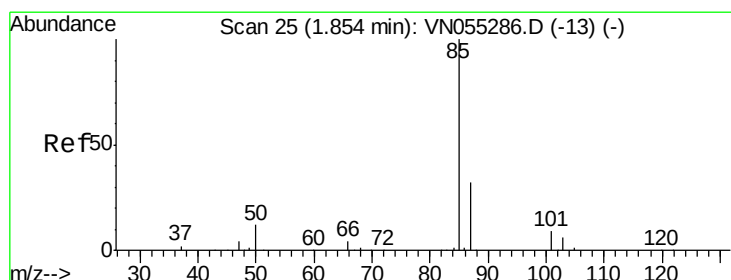
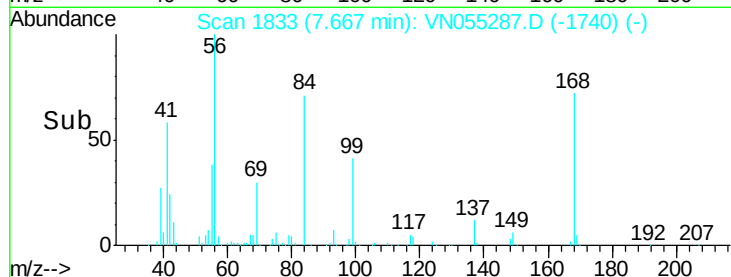
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 95.267 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN055287.D

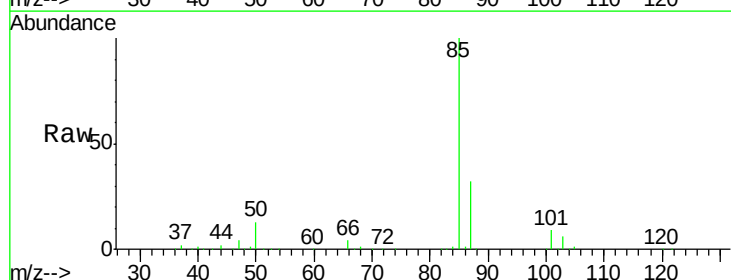
Acq: 29 Apr 2019 11:57

Tgt Ion: 85 Resp: 522268

Ion Ratio Lower Upper

85 100

87 32.5 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

400000

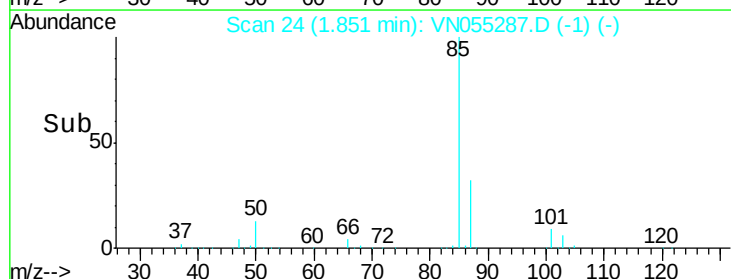
300000

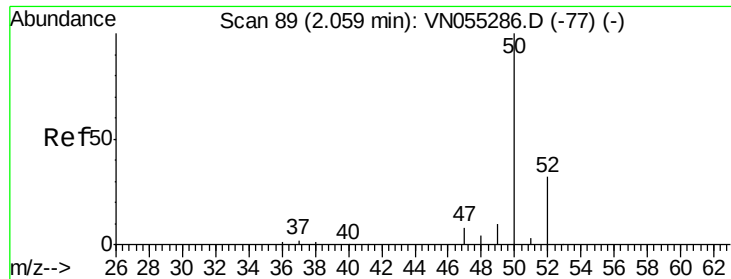
200000

100000

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Time-->





#3

Chloromethane

Concen: 91.363 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 50 Resp: 613271

Ion Ratio Lower Upper

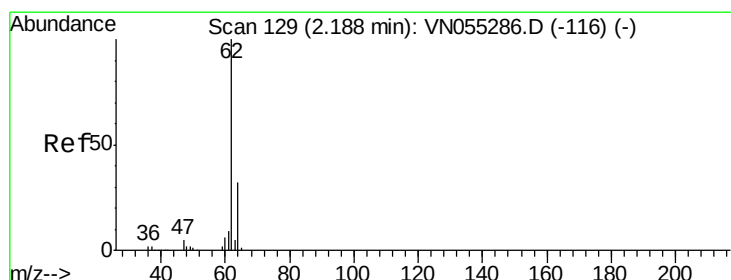
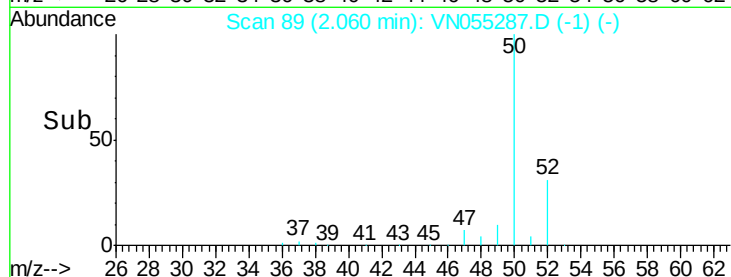
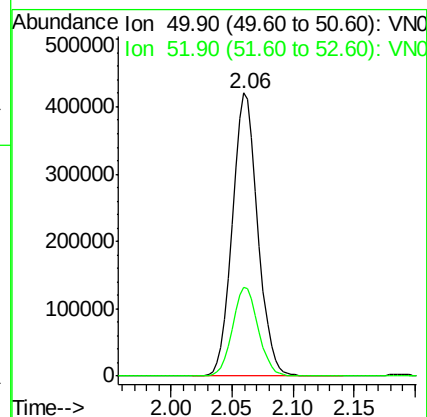
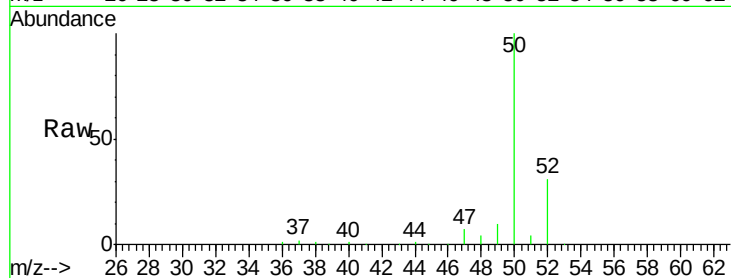
50 100

52 31.4 25.7 38.5

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#4

Vinyl Chloride

Concen: 90.697 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN055287.D

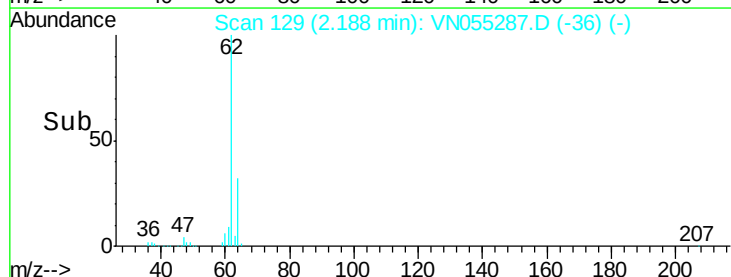
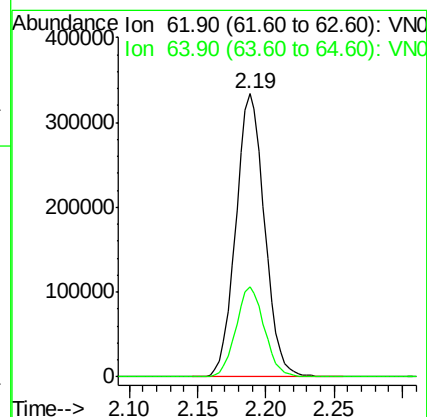
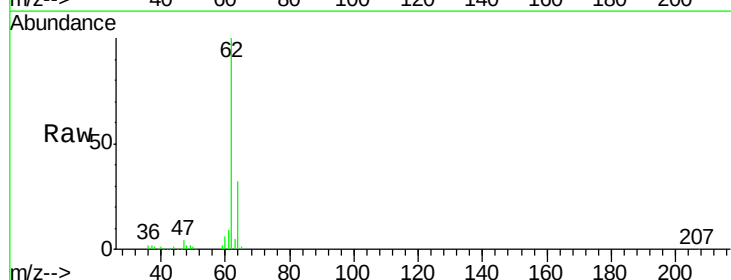
Acq: 29 Apr 2019 11:57

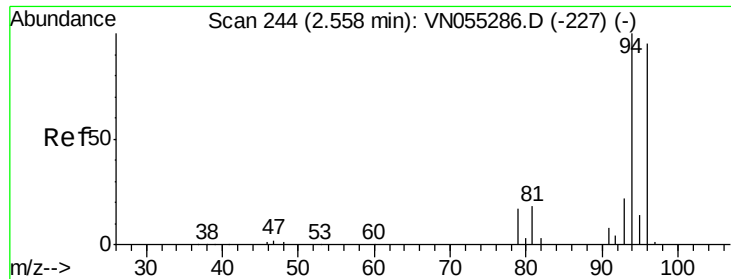
Tgt Ion: 62 Resp: 487434

Ion Ratio Lower Upper

62 100

64 31.7 25.5 38.3





#5

Bromomethane

Concen: 85.091 ug/l

RT: 2.55 min Scan# 243

Delta R.T. -0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 94 Resp: 266959

Ion Ratio Lower Upper

94 100

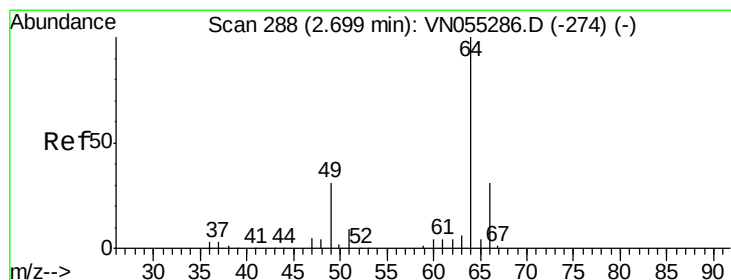
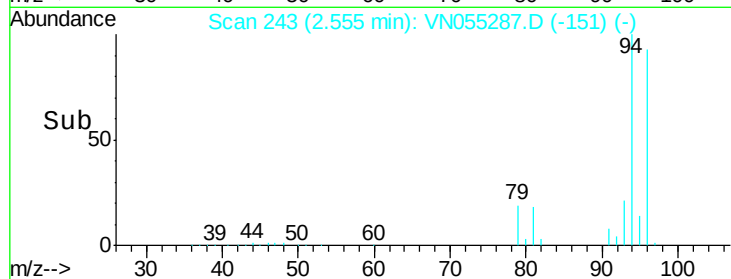
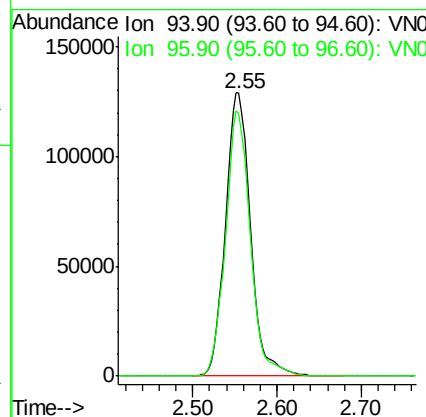
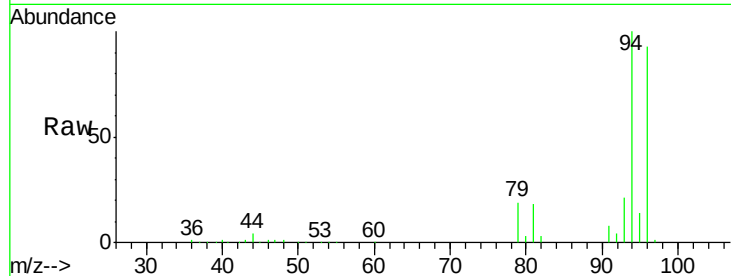
96 93.0 76.0 114.0

Manual Integrations

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4/30/2019 11:59:10 AM



#6

Chloroethane

Concen: 91.897 ug/l

RT: 2.70 min Scan# 288

Delta R.T. 0.00 min

Lab File: VN055287.D

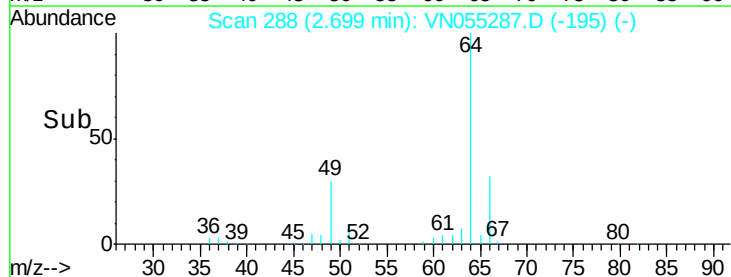
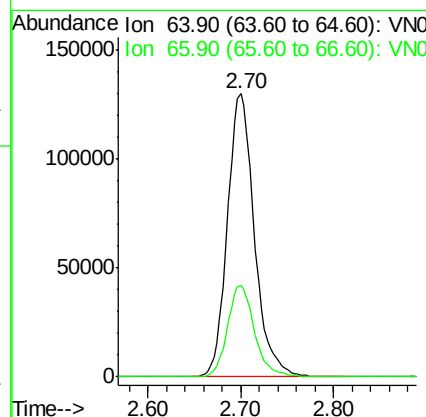
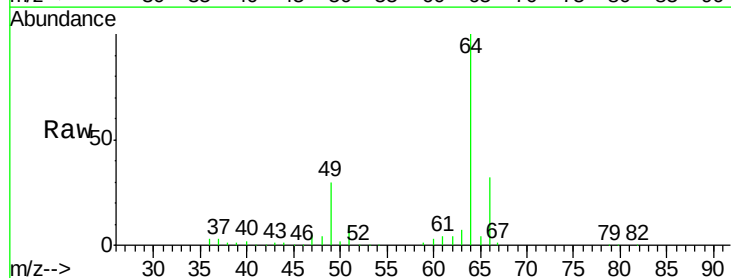
Acq: 29 Apr 2019 11:57

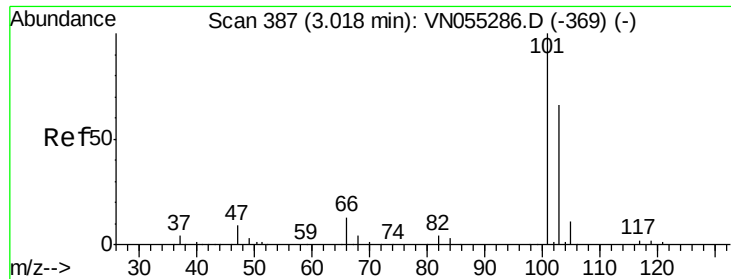
Tgt Ion: 64 Resp: 262411

Ion Ratio Lower Upper

64 100

66 32.3 25.0 37.4





#7

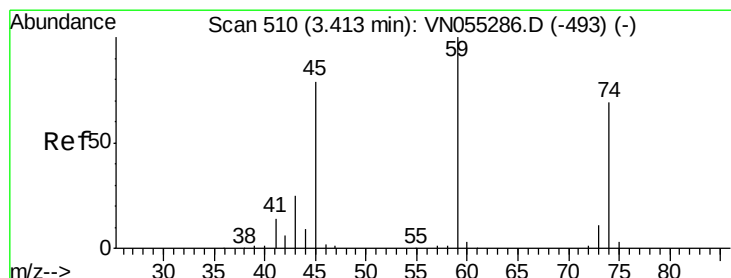
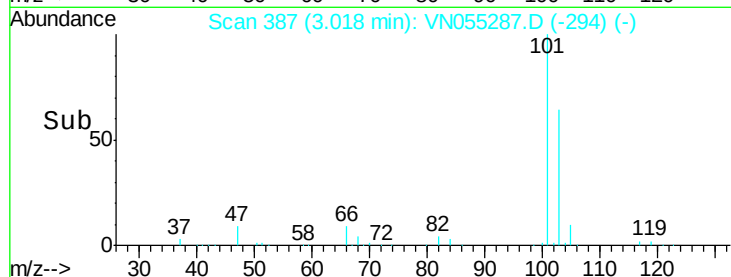
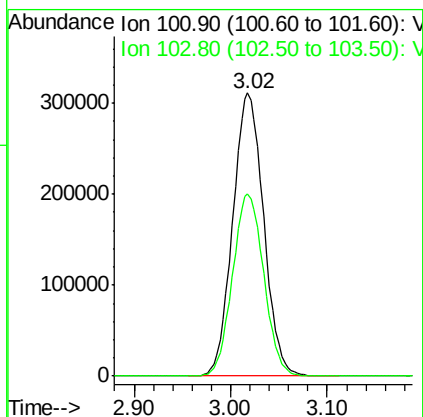
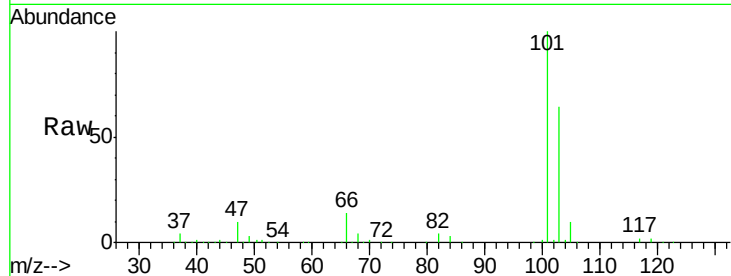
Trichlorofluoromethane
Concen: 93.517 ug/l
RT: 3.02 min Scan# 387
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:101 Resp: 689498
Ion Ratio Lower Upper
101 100
103 64.4 52.6 79.0

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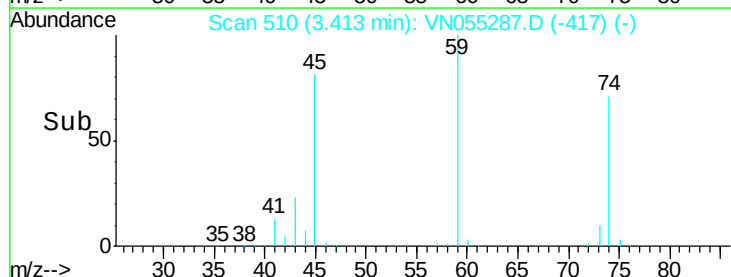
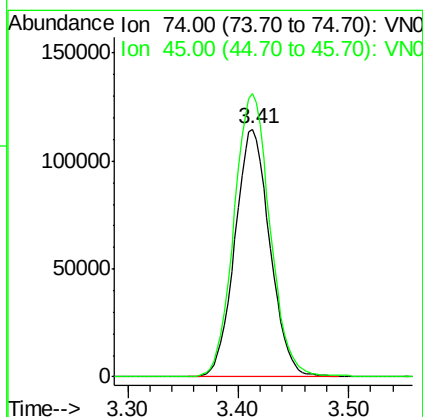
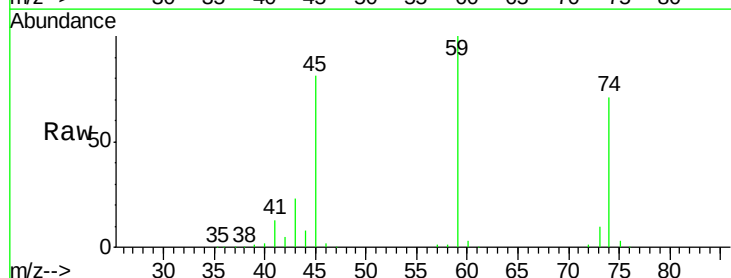
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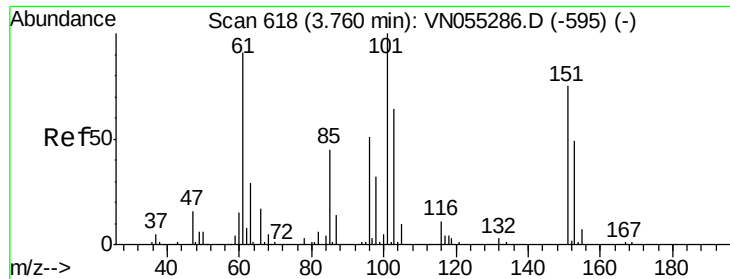


#8

Diethyl Ether
Concen: 96.062 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Tgt Ion: 74 Resp: 252605
Ion Ratio Lower Upper
74 100
45 117.1 58.9 176.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 90.012 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

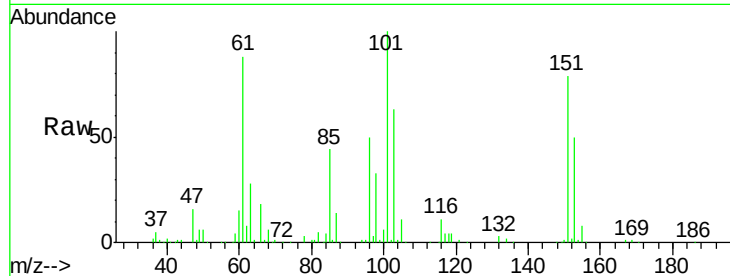
ClientSampleId :

VSTDIC100

Tot Ion:	101	Resp:	414051
Ion Ratio	Lower	Upper	
101	100		
85	44.0	35.7	53.5
151	79.3	63.3	94.9

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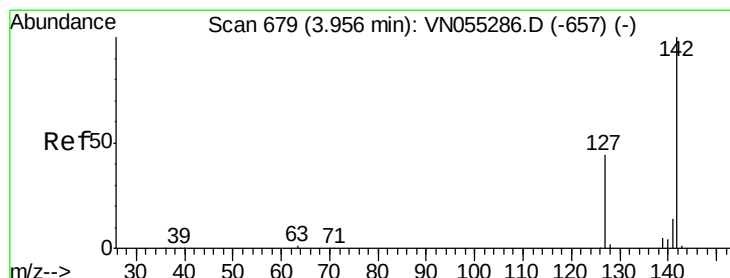
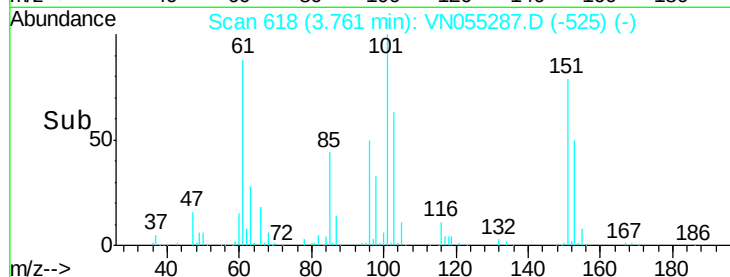
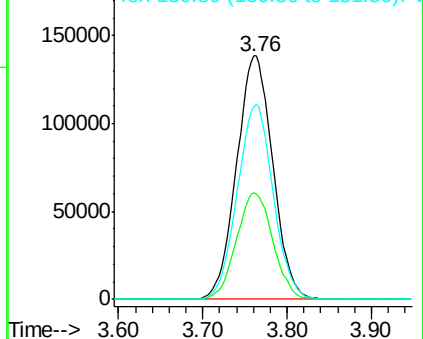
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4/30/2019 11:59:10 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 98.995 ug/l

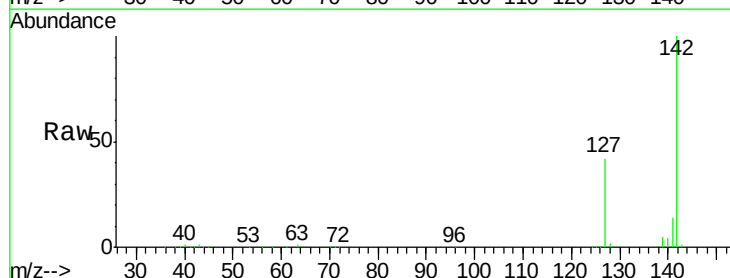
RT: 3.95 min Scan# 678

Delta R.T. -0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

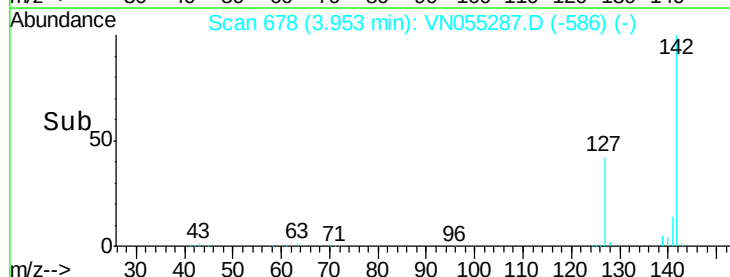
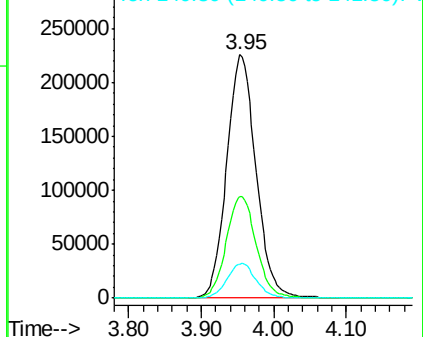
Tgt Ion:	142	Resp:	634238
Ion Ratio	Lower	Upper	
142	100		
127	42.8	34.4	51.6
141	14.3	11.5	17.3

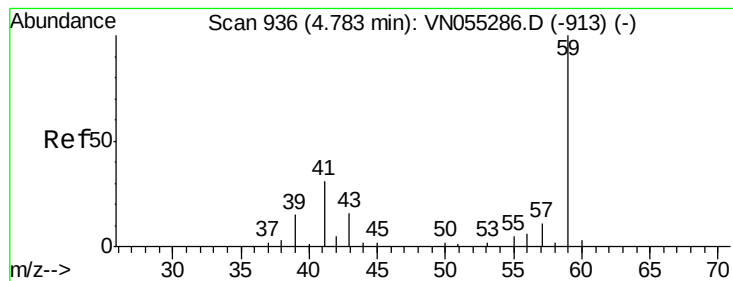


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

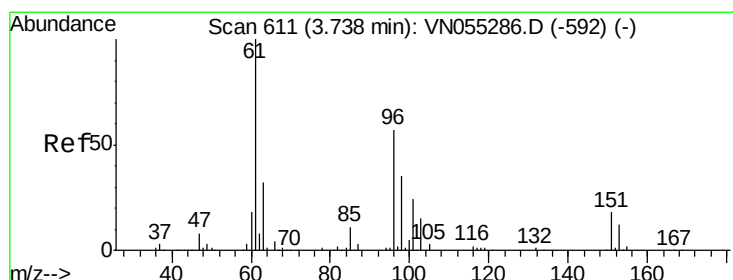
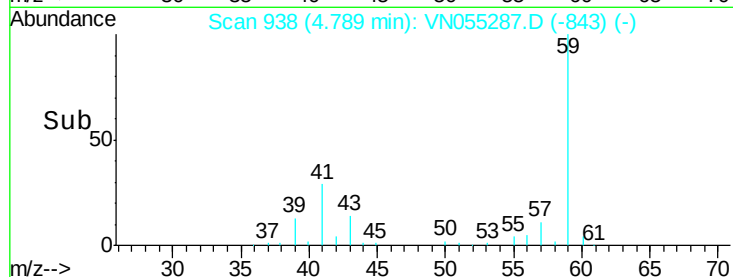
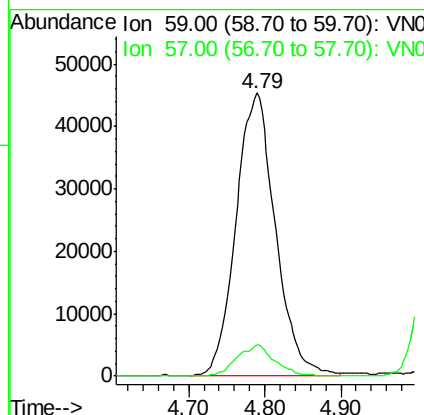
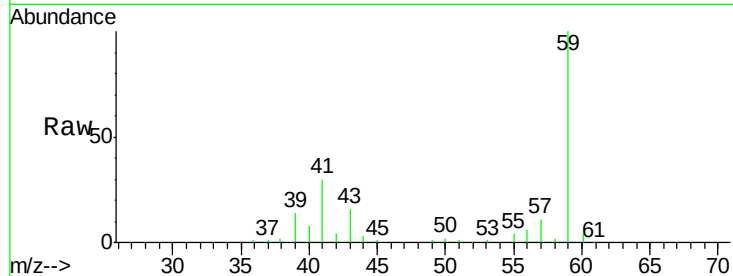
Tert butyl alcohol
 Concen: 484.409 ug/l
 RT: 4.79 min Scan# 938
 Delta R.T. 0.01 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion	59	57	Ratio	100	10.5	Resp	163849	Lower	8.2	Upper	12.2
Ion	59	57	Ratio	100	10.5	Resp	163849	Lower	8.2	Upper	12.2

Manual Integrations
 APPROVED

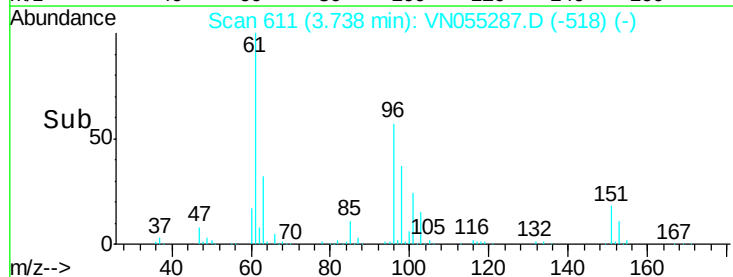
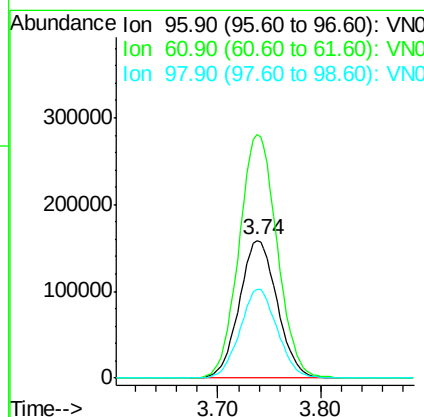
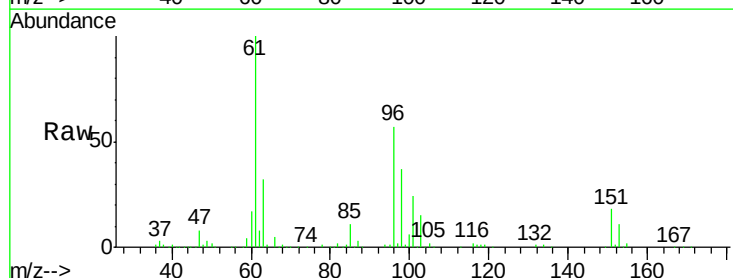
MMDadoda
 4/30/2019 11:59:10 AM

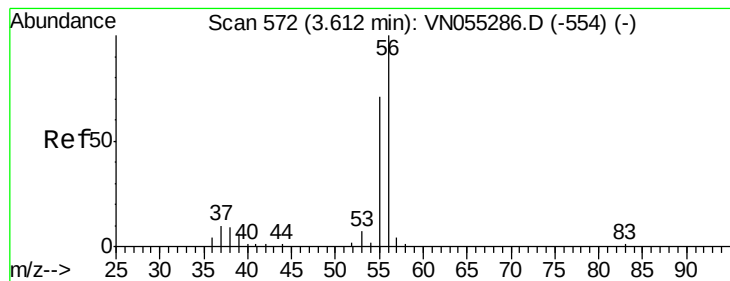


#12

1,1-Dichloroethene
 Concen: 92.273 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. 0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Tgt Ion	96	61	98	Ratio	100	176.7	64.7	Resp	404688	Lower	140.9	50.0	Upper	211.3	75.0
Ion	96	61	98	Ratio	100	176.7	64.7	Resp	404688	Lower	140.9	50.0	Upper	211.3	75.0





#13

Acrolein

Concen: 303.542 ug/l

RT: 3.61 min Scan# 571

Delta R.T. -0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 127611

Ion Ratio Lower Upper

56 100

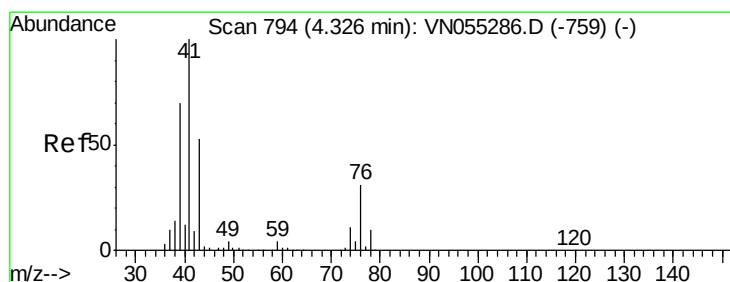
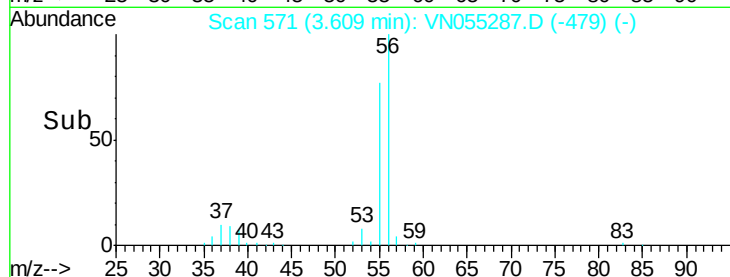
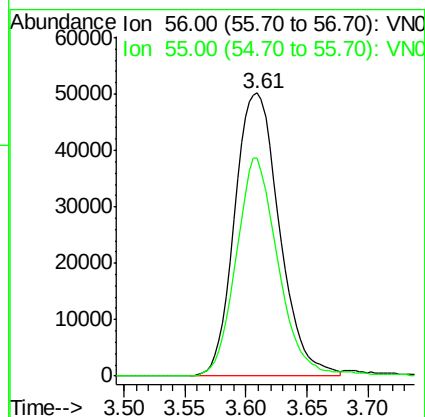
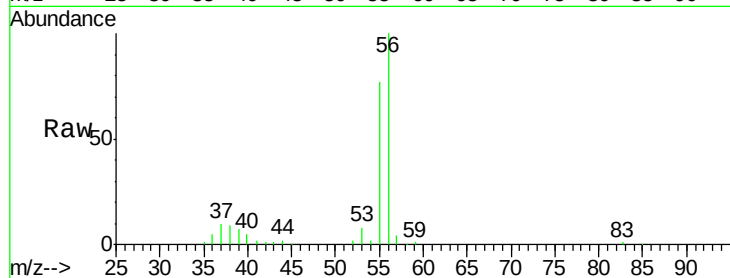
55 72.5 57.4 86.2

Manual Integrations

APPROVED

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4/30/2019 11:59:10 AM



#14

Allyl chloride

Concen: 98.175 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

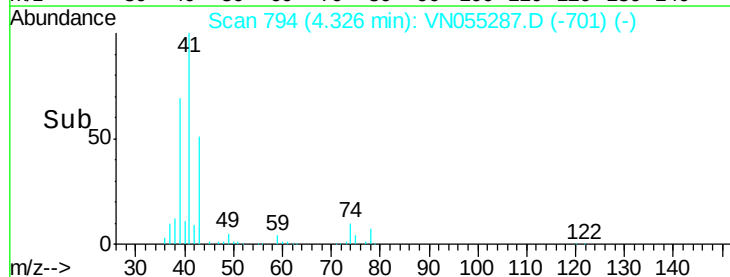
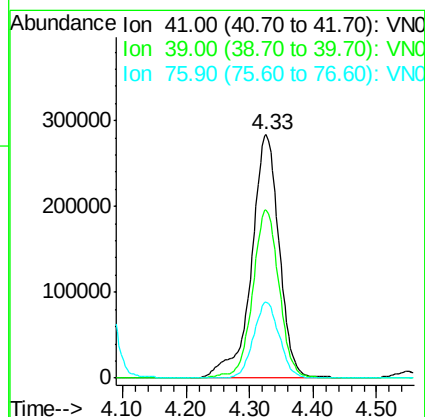
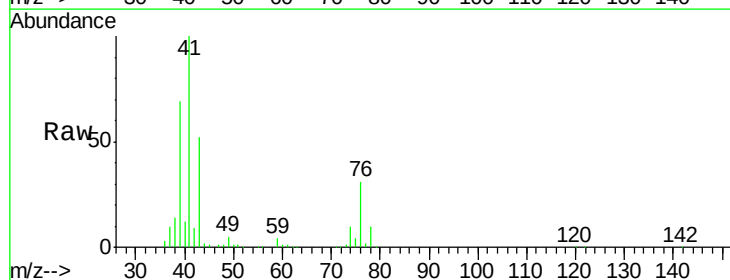
Tgt Ion: 41 Resp: 859854

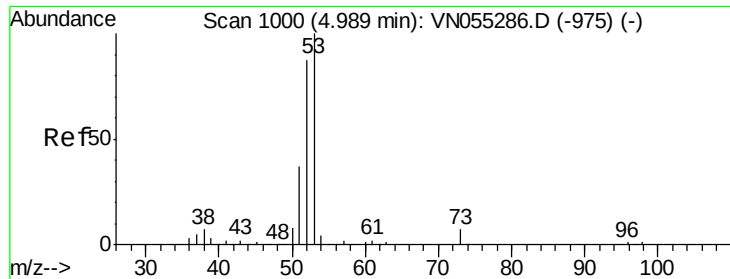
Ion Ratio Lower Upper

41 100

39 65.9 53.0 79.6

76 28.9 22.7 34.1





#15

Acrylonitrile

Concen: 481.342 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

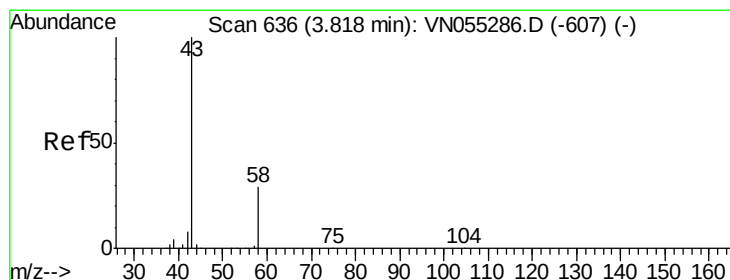
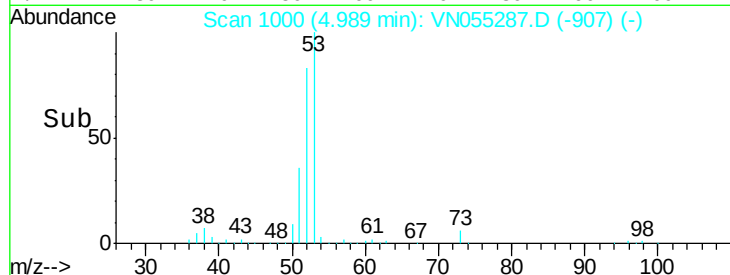
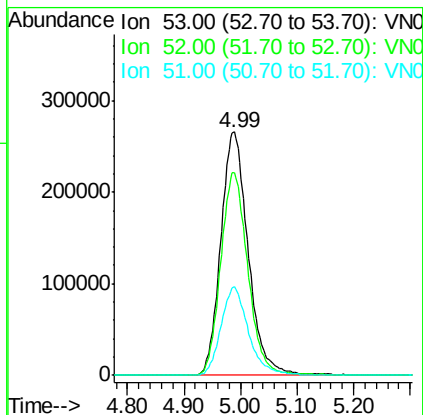
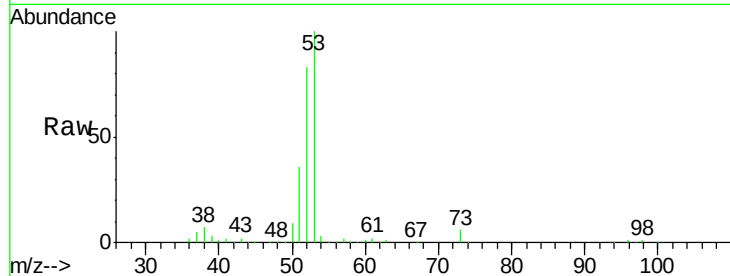
ClientSampleId :

VSTDIC100

Tot Ion:	53	Resp:	894570
Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.5	99.7
51	36.6	29.6	44.4

Manual Integrations
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4/30/2019 11:59:10 AM



#16

Acetone

Concen: 421.084 ug/l

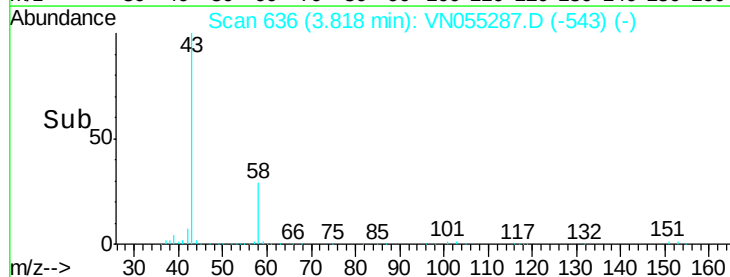
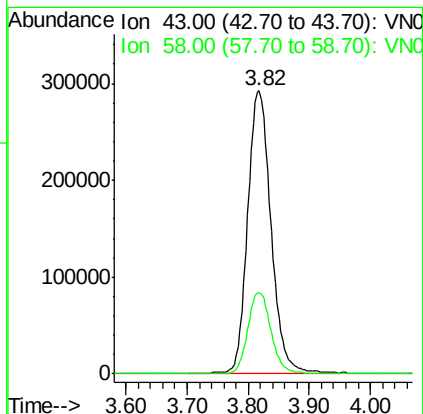
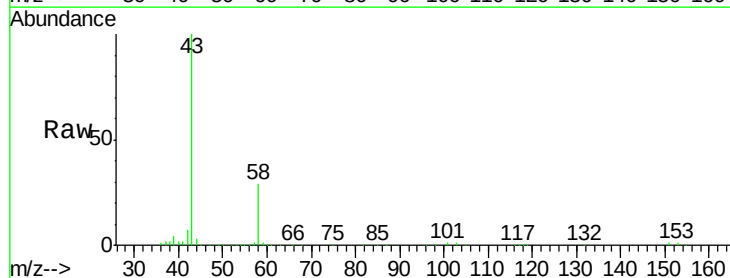
RT: 3.82 min Scan# 636

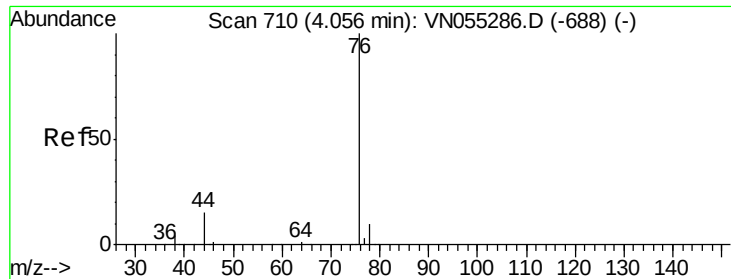
Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Tgt Ion:	43	Resp:	779813
Ion	Ratio	Lower	Upper
43	100		
58	28.6	23.6	35.4





#17

Carbon Disulfide

Concen: 91.877 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 76 Resp: 1116186

Ion Ratio Lower Upper

76 100

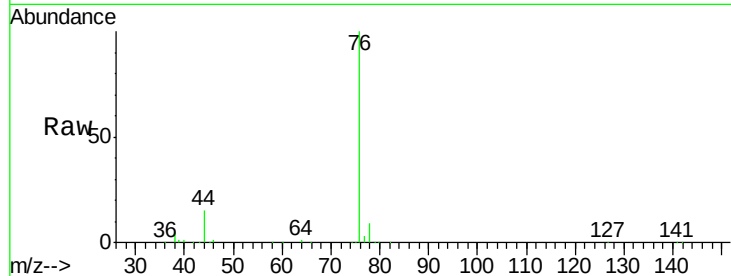
78 9.1 7.6 11.4

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.06

400000

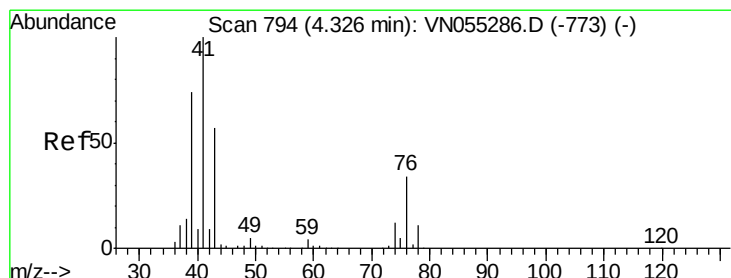
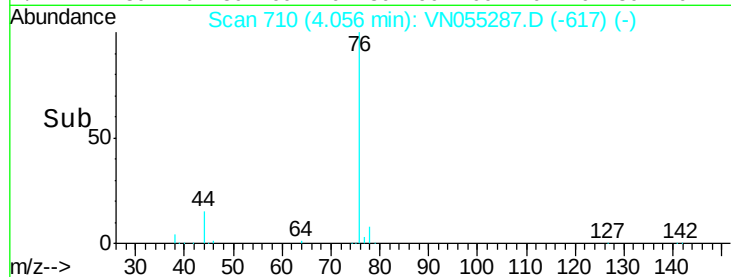
300000

200000

100000

0

Time-->



#18

Methyl Acetate

Concen: 80.098 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN055287.D

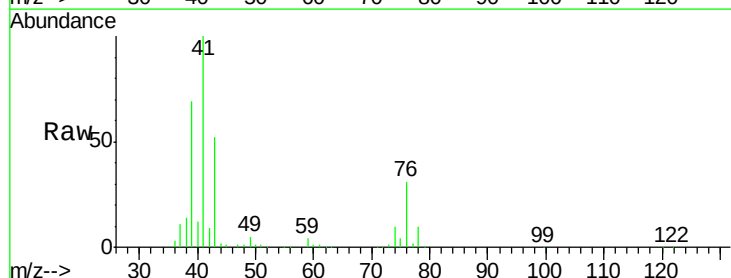
Acq: 29 Apr 2019 11:57

Tgt Ion: 43 Resp: 422707

Ion Ratio Lower Upper

43 100

74 19.6 15.8 23.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.32

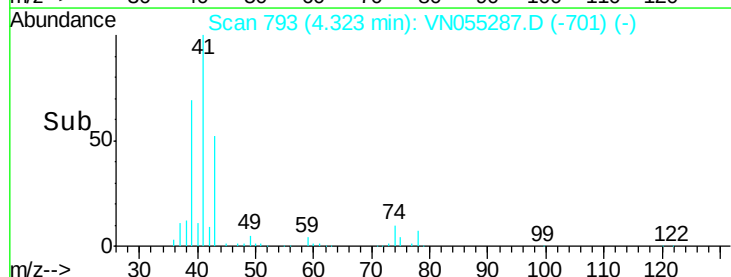
150000

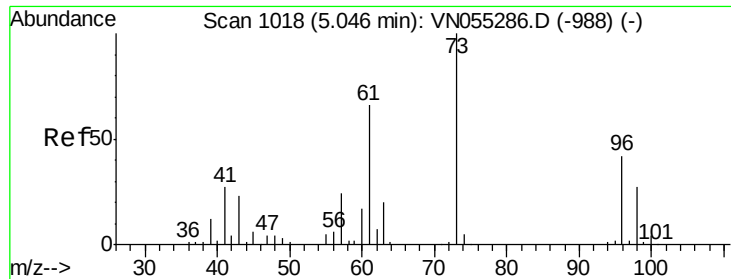
100000

50000

0

Time-->





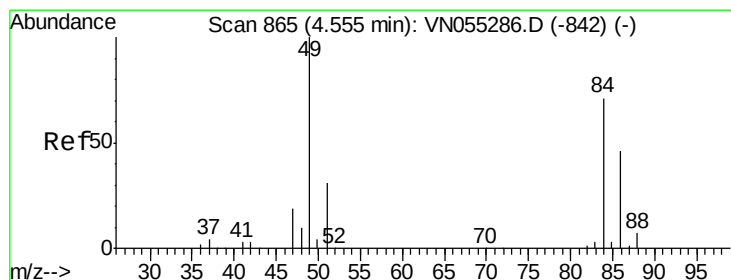
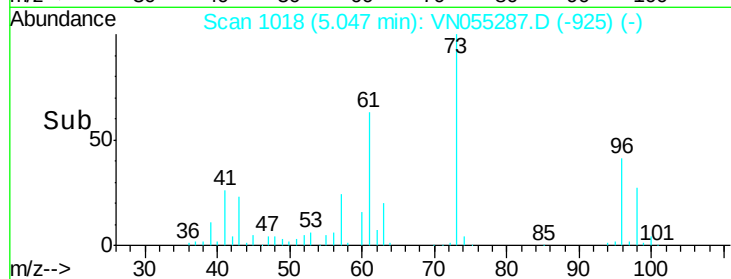
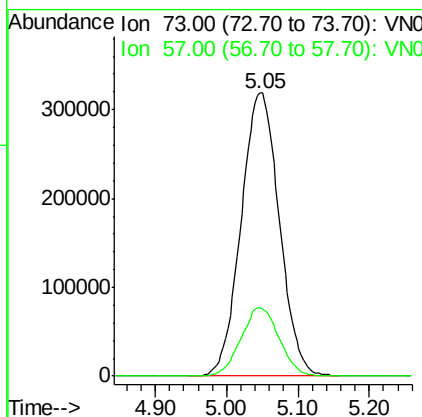
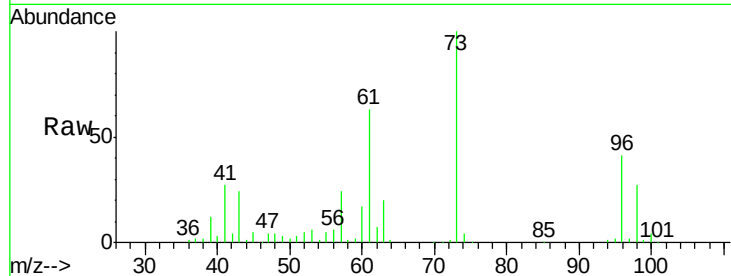
#19
Methyl tert-butyl Ether
Concen: 96.919 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 73 Resp: 1187394
Ion Ratio Lower Upper
73 100
57 24.1 19.1 28.7

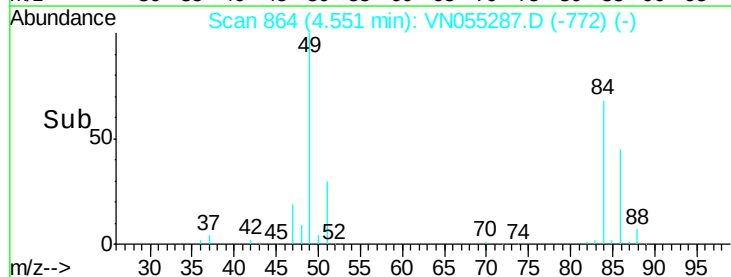
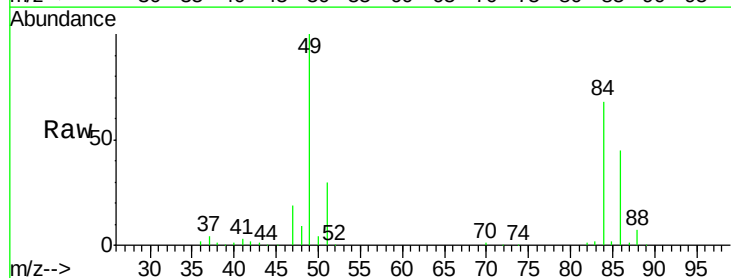
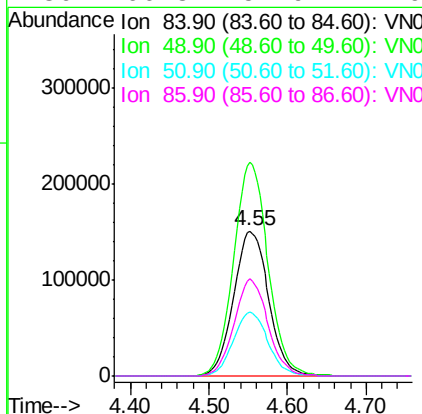
Manual Integrations
APPROVED

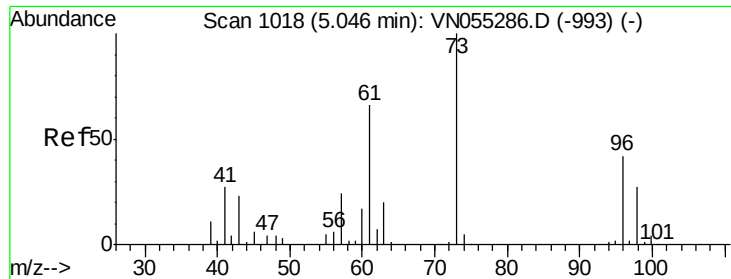
MMDadoda
4/30/2019 11:59:10 AM



#20
Methylene Chloride
Concen: 85.475 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Tgt Ion: 84 Resp: 471230
Ion Ratio Lower Upper
84 100
49 147.2 112.4 168.6
51 44.3 34.6 51.8
86 66.8 51.9 77.9





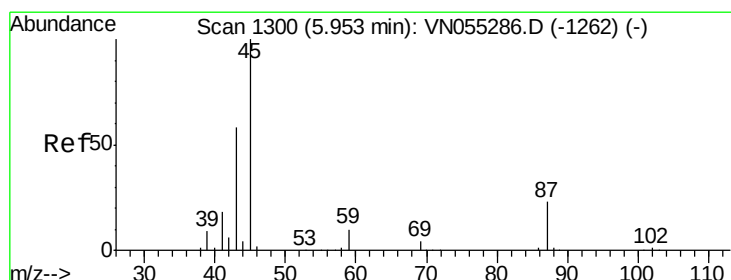
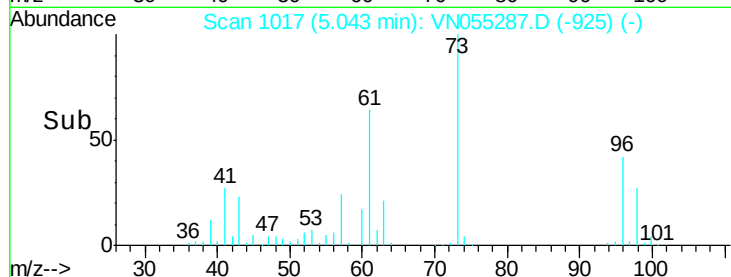
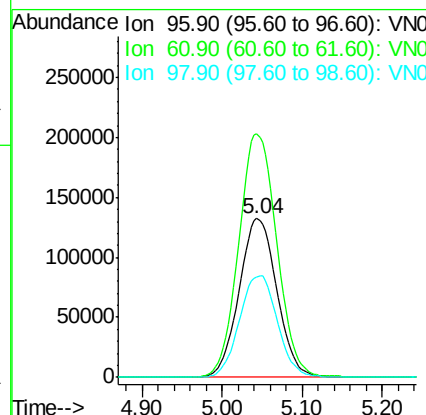
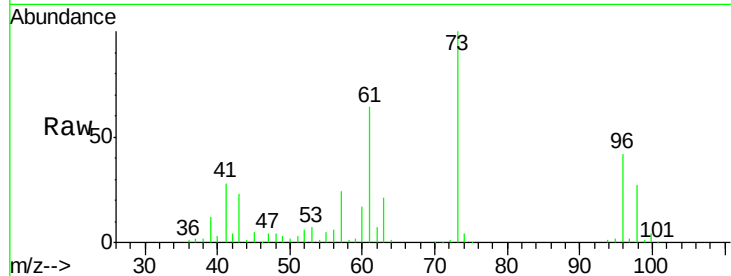
#21
trans-1,2-Dichloroethene
Concen: 92.299 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
96	100		
61	153.5	126.2	189.4
98	63.4	52.2	78.2

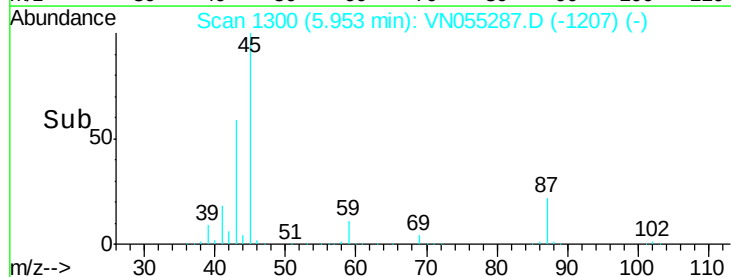
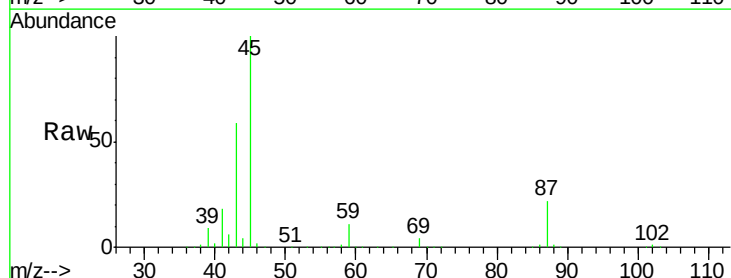
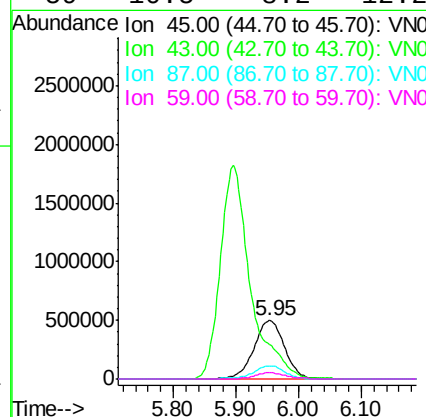
Manual Integrations
APPROVED

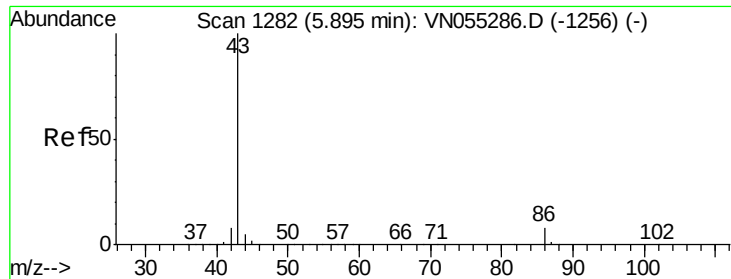
MMDadoda
4/30/2019 11:59:10 AM



#22
Diisopropyl ether
Concen: 97.252 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.5	46.6	70.0
87	22.4	18.1	27.1
59	10.5	8.2	12.2





#23

Vinyl Acetate

Concen: 522.003 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tot Ion: 43 Resp: 6102024

Ion Ratio Lower Upper

43 100

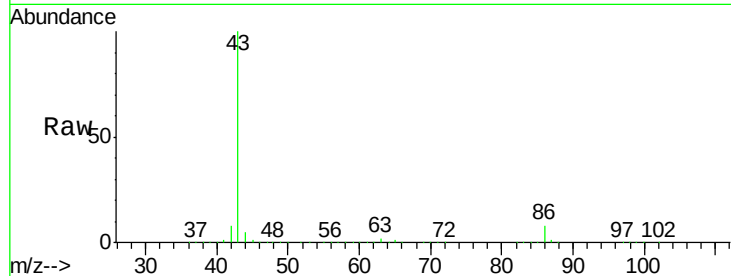
86 8.2 6.6 10.0

Manual Integrations

APPROVED

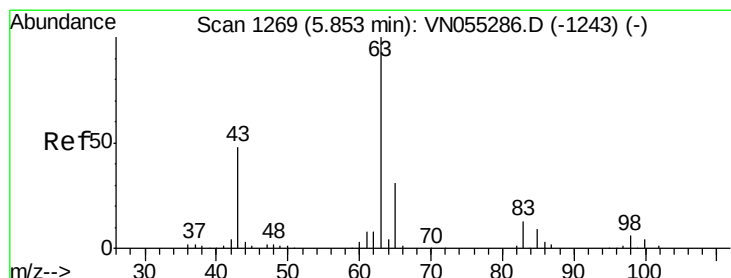
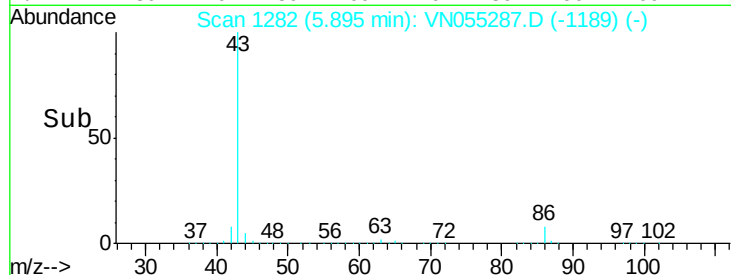
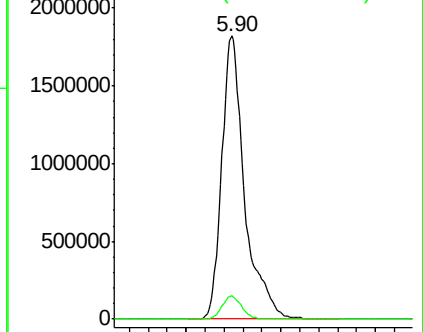
MMDadoda

4/30/2019 11:59:10 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: 93.611 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

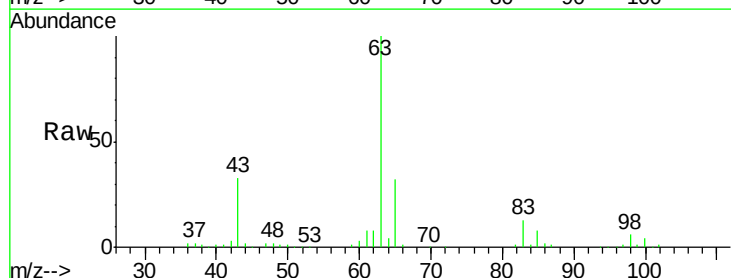
Tgt Ion: 63 Resp: 876455

Ion Ratio Lower Upper

63 100

98 5.8 3.0 9.0

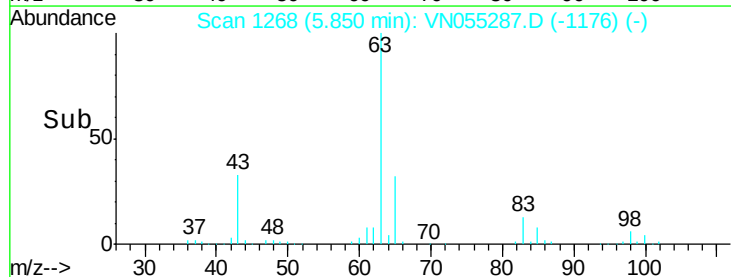
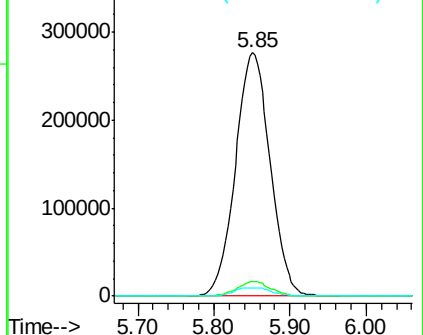
100 3.5 1.8 5.4

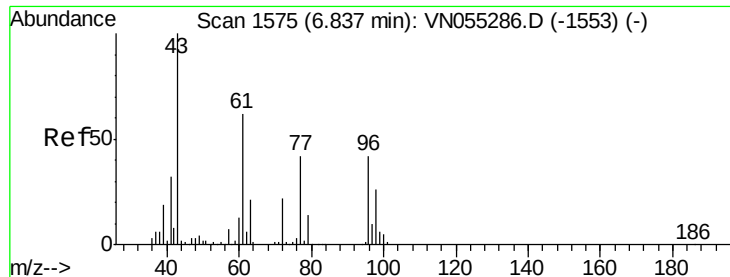


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 455.775 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1115119

Ion Ratio Lower Upper

43 100

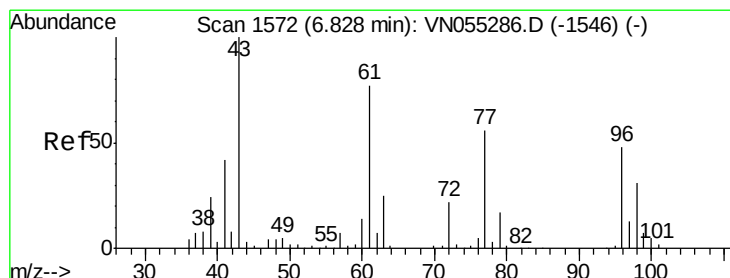
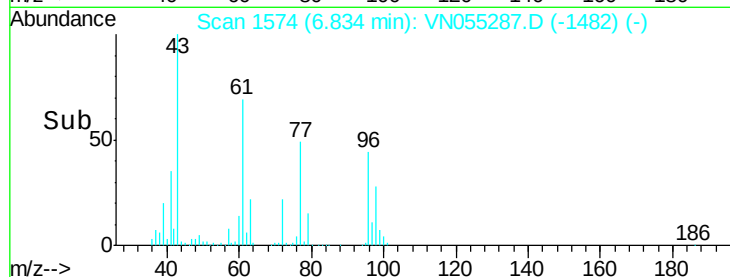
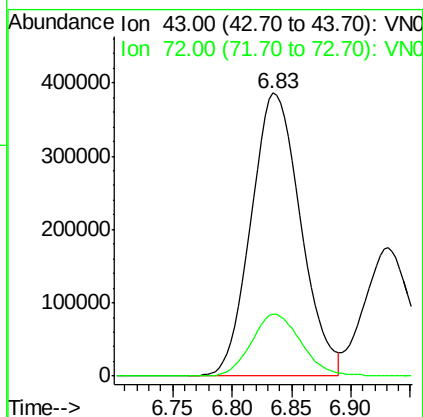
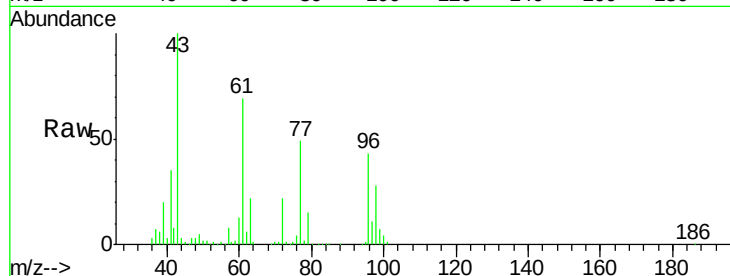
72 21.9 18.0 27.0

Manual Integrations

APPROVED

MMDadoda

4/30/2019 11:59:10 AM



#26

2,2-Dichloropropane

Concen: 97.845 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN055287.D

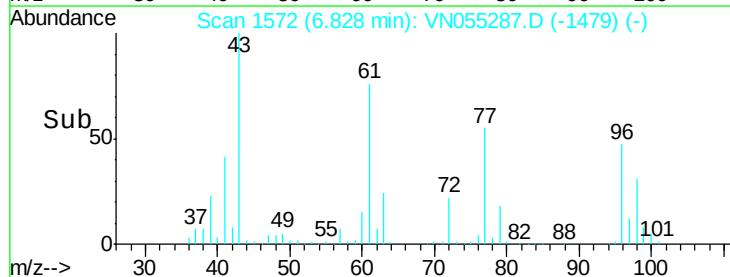
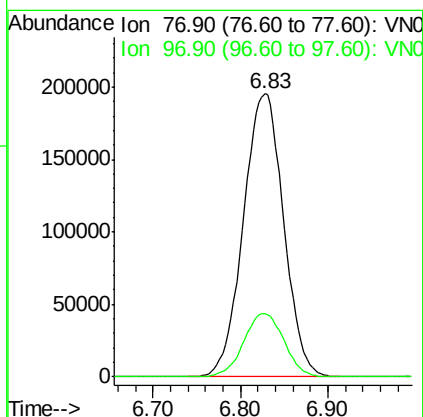
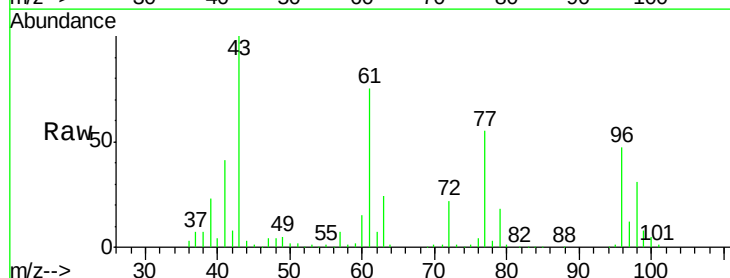
Acq: 29 Apr 2019 11:57

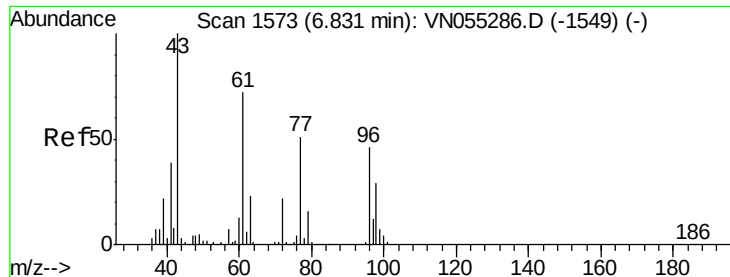
Tgt Ion: 77 Resp: 623372

Ion Ratio Lower Upper

77 100

97 22.5 11.4 34.2





#27

cis-1,2-Dichloroethene

Concen: 92.628 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

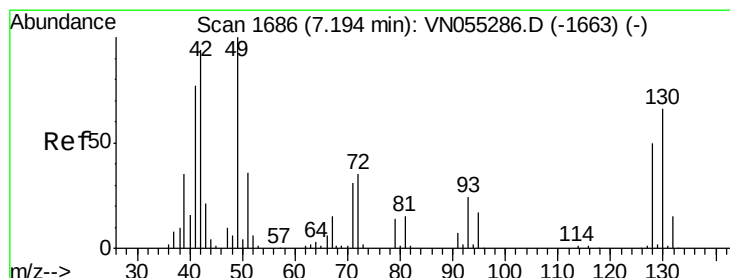
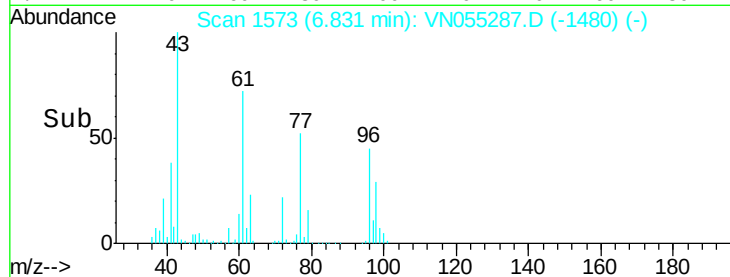
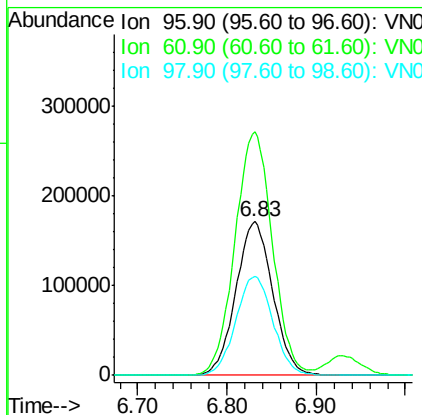
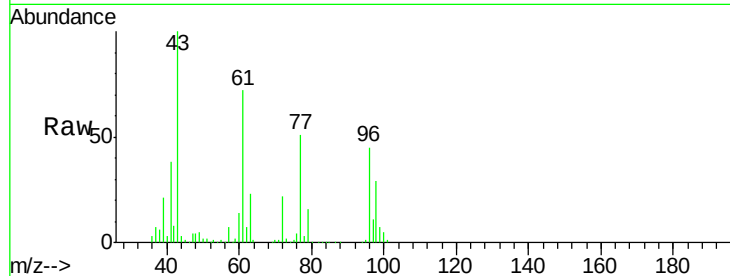
ClientSampleId :

VSTDIC100

Tot Ion:	96	Resp:	493484
Ion	Ratio	Lower	Upper
96	100		
61	160.3	0.0	316.2
98	64.7	0.0	126.6

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#28

Bromochloromethane

Concen: 93.037 ug/l

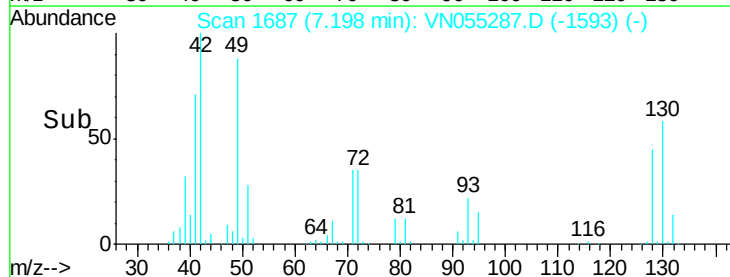
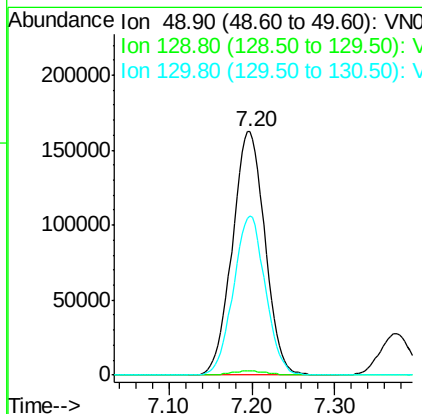
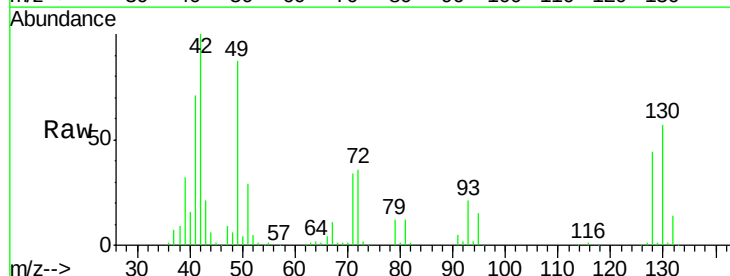
RT: 7.20 min Scan# 1687

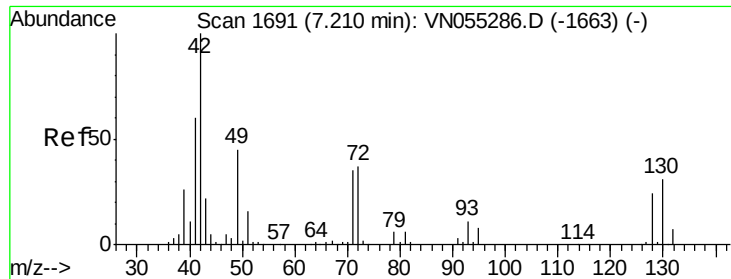
Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Tgt Ion:	49	Resp:	444353
Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	2.4
130	64.1	52.0	78.0





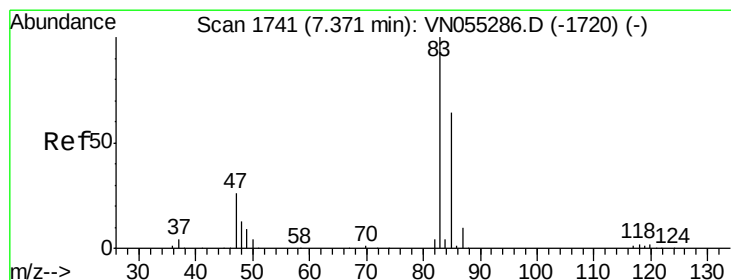
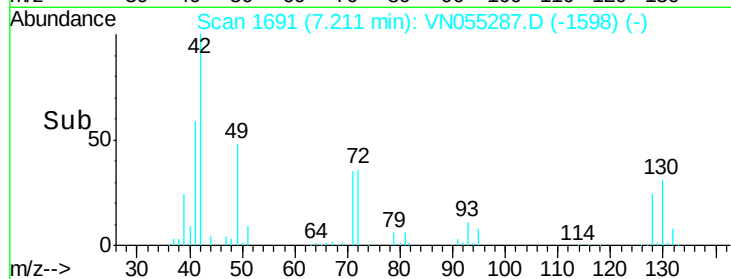
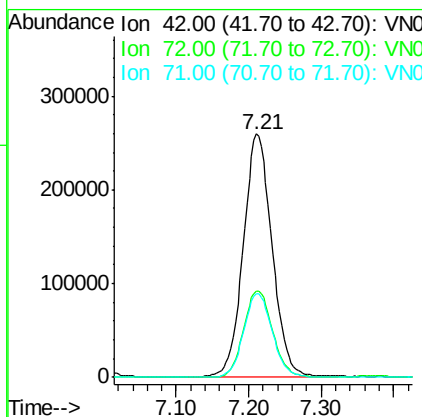
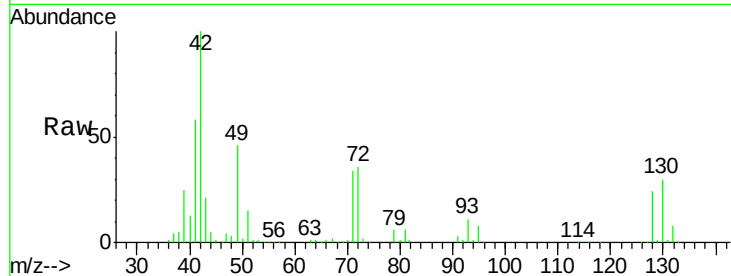
#29
Tetrahydrofuran
Concen: 471.332 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.9	29.0	43.6
71	34.3	27.1	40.7

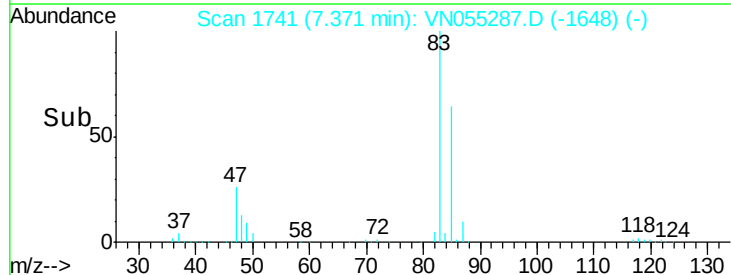
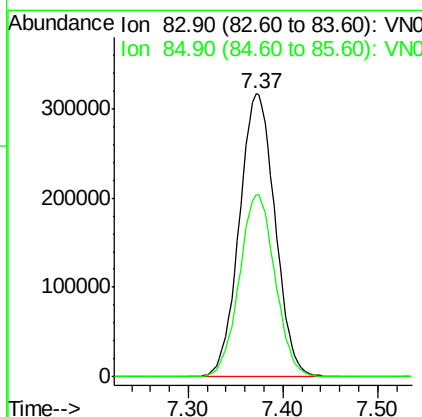
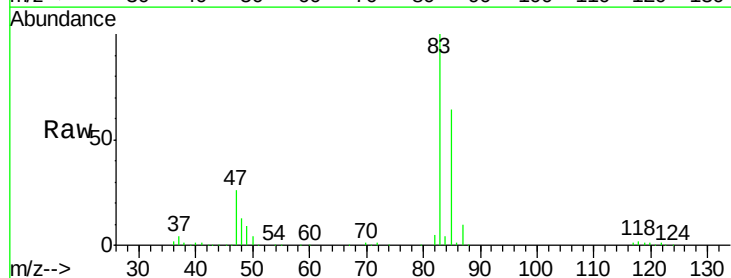
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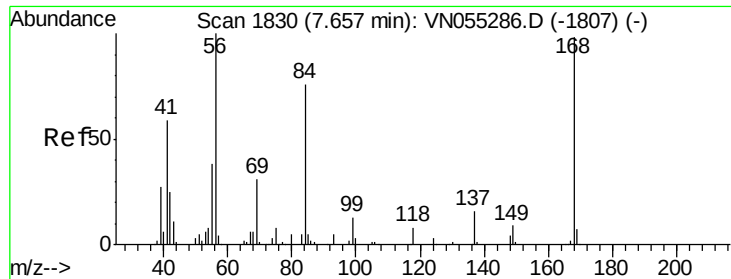
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#30
Chloroform
Concen: 92.962 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.4	77.2





#31

Cyclohexane

Concen: 76.525 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

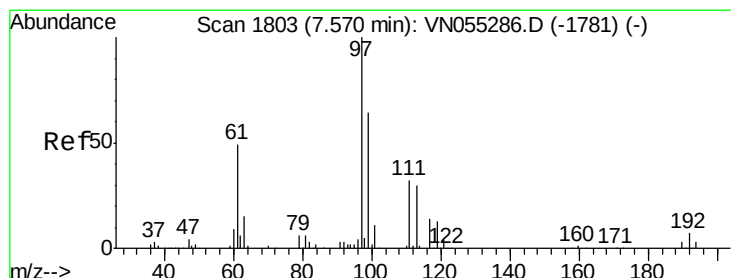
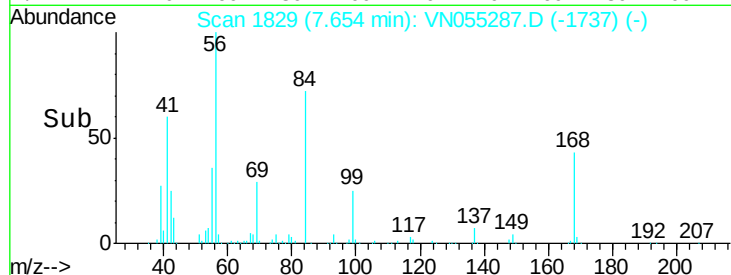
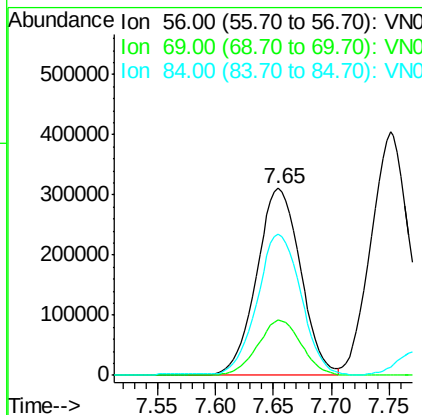
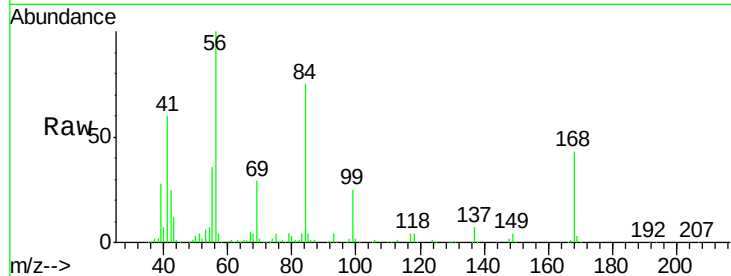
ClientSampled :

VSTDIC100

Tot Ion:	56	Resp:	820184
Ion Ratio		Lower	Upper
56	100		
69	29.4	25.2	37.8
84	74.3	61.1	91.7

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#32

1,1,1-Trichloroethane

Concen: 97.431 ug/l

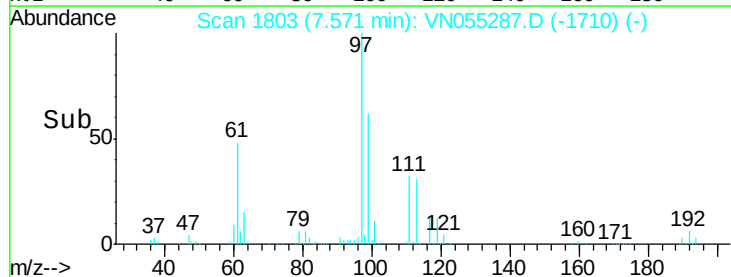
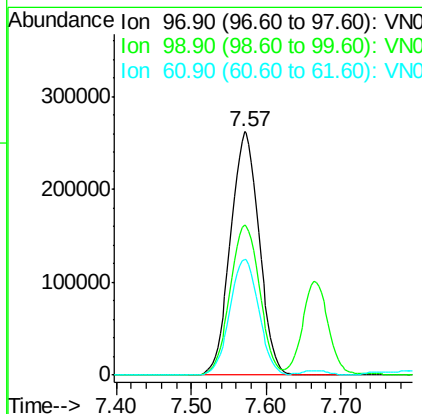
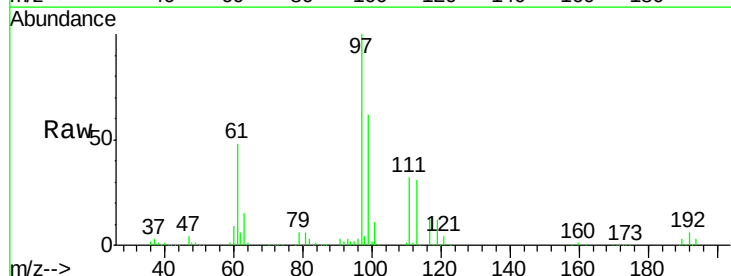
RT: 7.57 min Scan# 1803

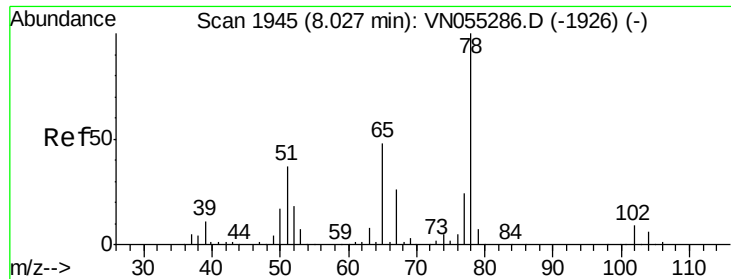
Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Tgt Ion:	97	Resp:	696641
Ion Ratio		Lower	Upper
97	100		
99	63.6	51.8	77.8
61	48.0	39.0	58.6





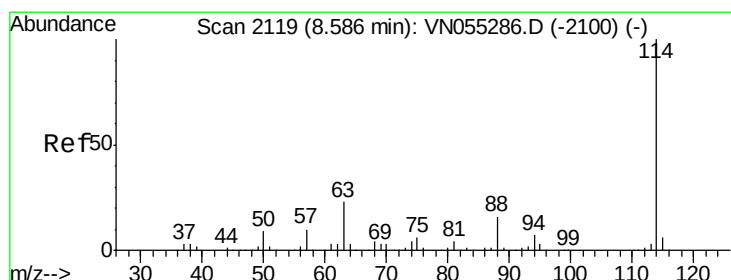
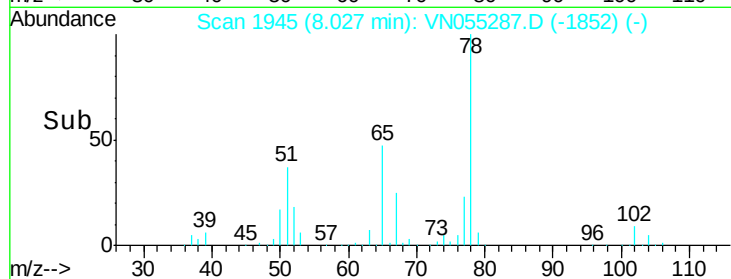
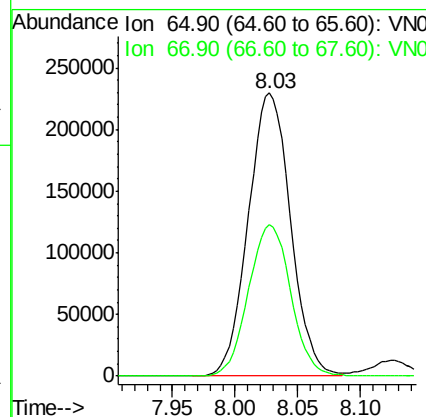
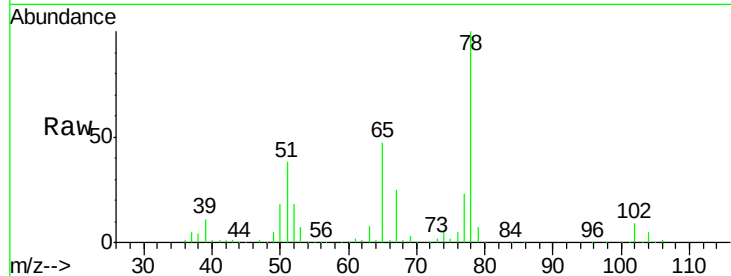
#33
 1,2-Dichloroethane-d4
 Concen: 92.737 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.5	0.0	106.8	

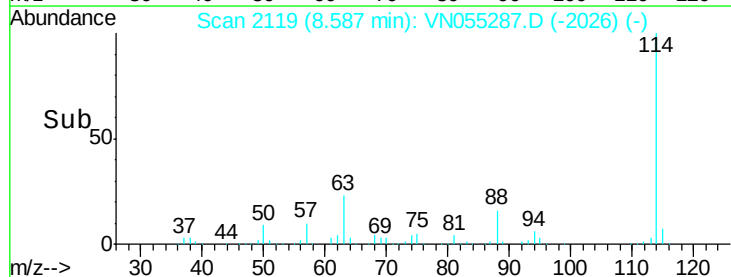
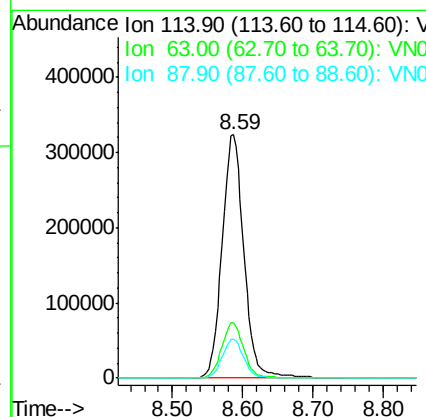
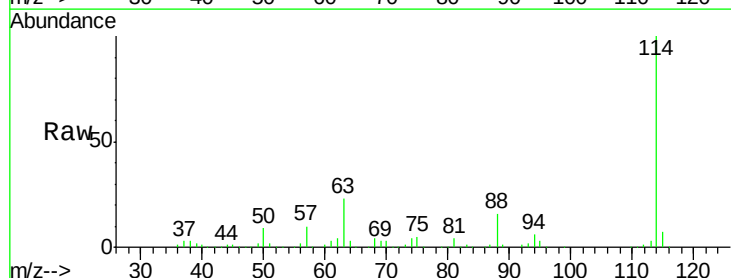
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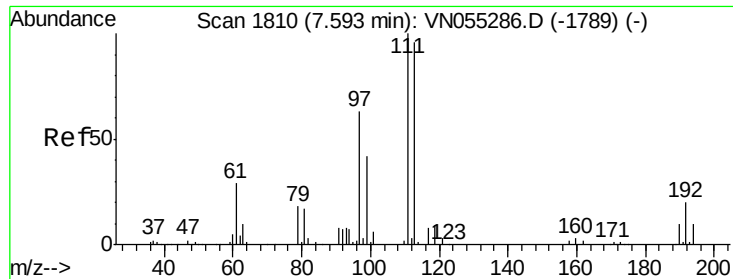
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.8	0.0	45.2	
88	16.1	0.0	31.6	





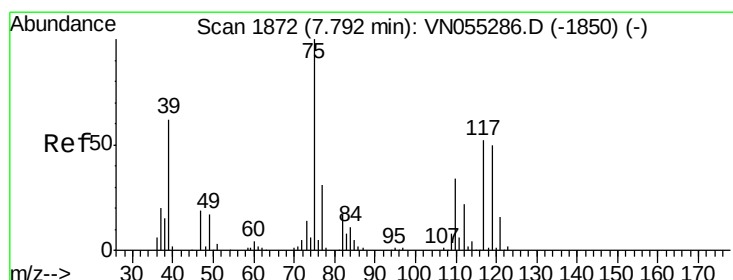
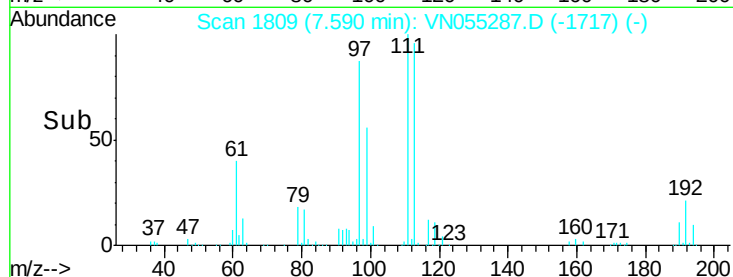
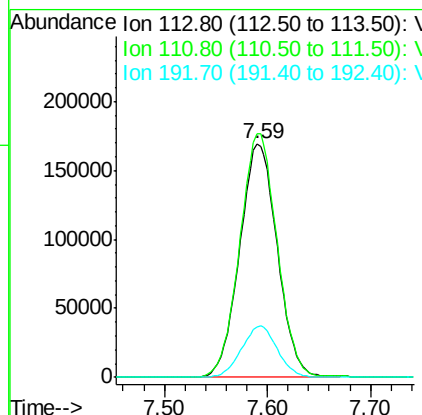
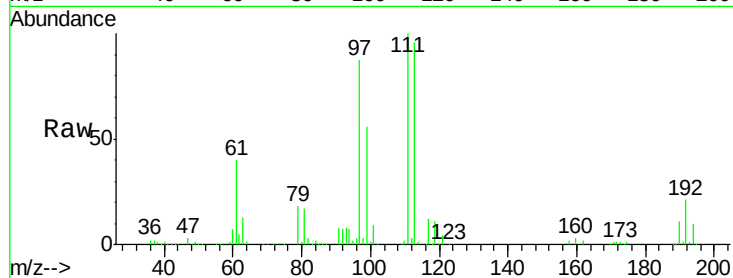
#35
 Dibromofluoromethane
 Concen: 91.870 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.3	123.5
192	20.9	17.0	25.6

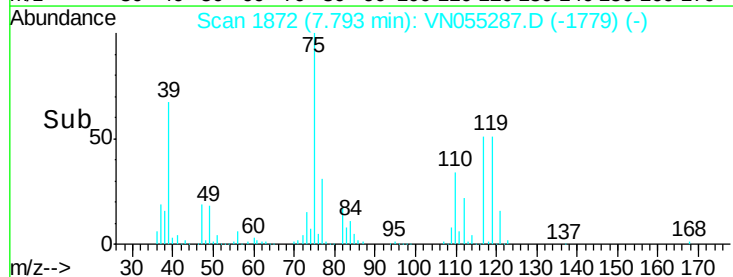
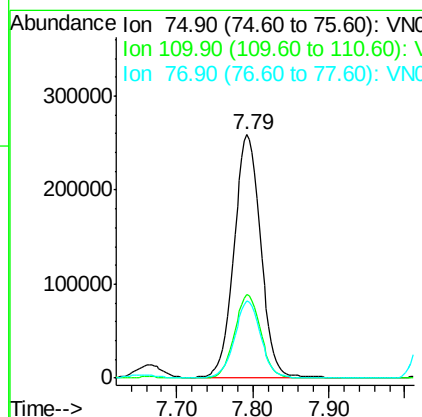
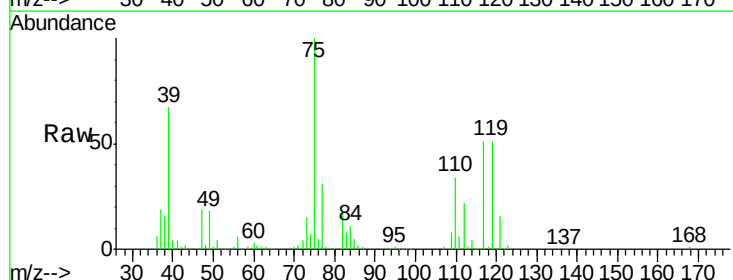
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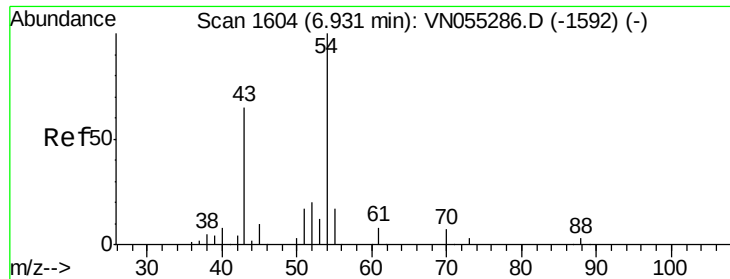
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#36
 1,1-Dichloropropene
 Concen: 98.627 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	33.8	16.8	50.4
77	31.2	25.0	37.6





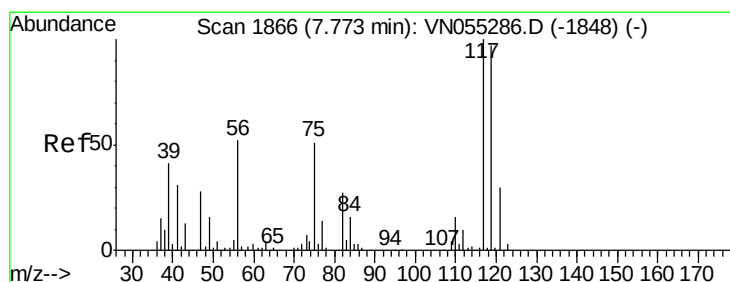
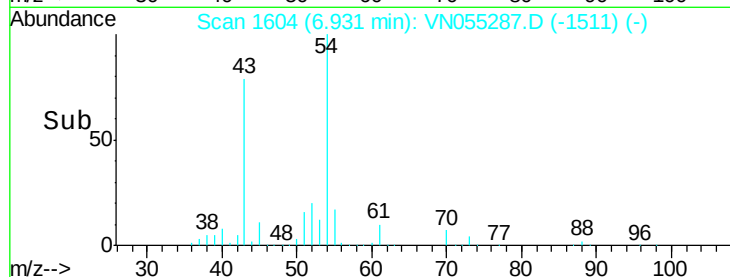
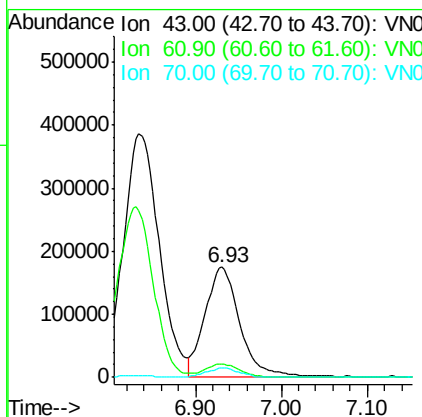
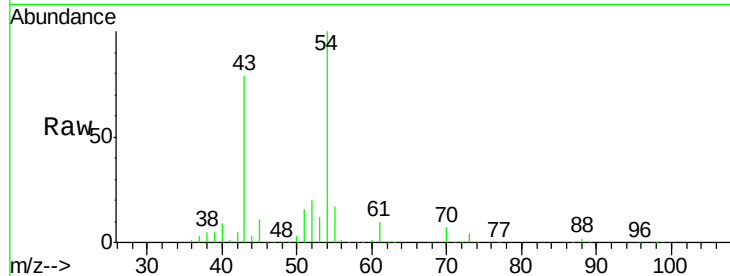
#37
Ethyl Acetate
Concen: 94.543 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	43	61	70
Resp	487423		
Ratio	100	11.9	8.6
Lower		10.4	6.6
Upper		15.6	10.0

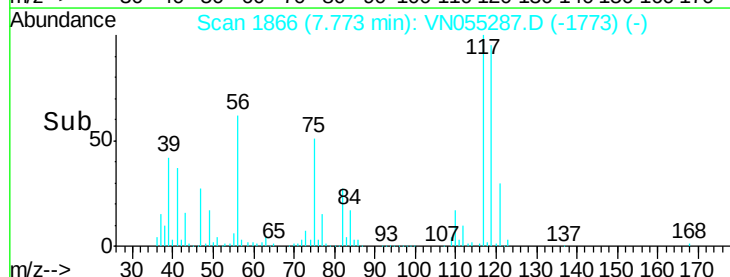
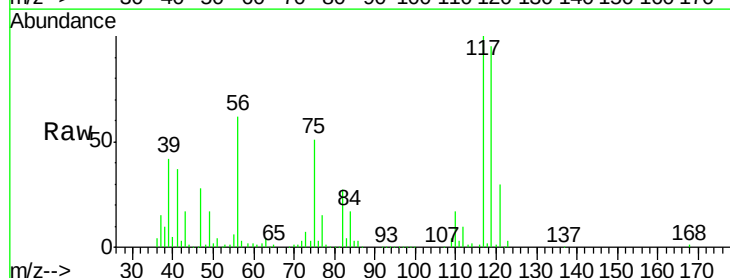
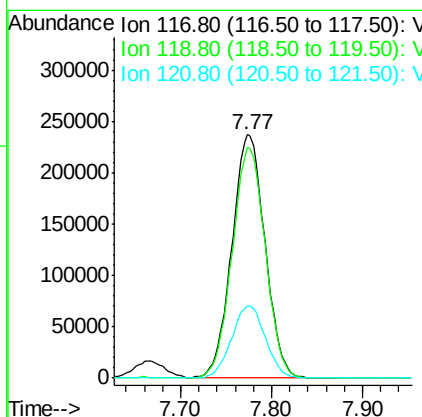
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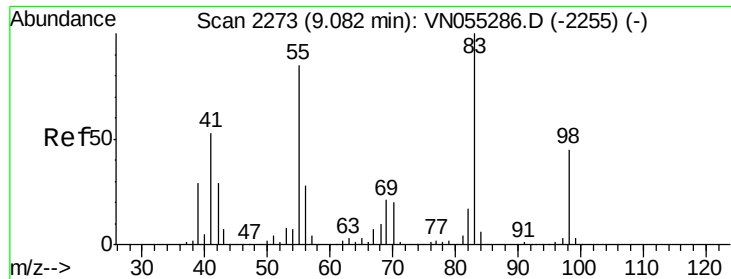
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#38
Carbon Tetrachloride
Concen: 99.187 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Tgt Ion	117	119	121
Resp	597390		
Ratio	100	94.8	29.6
Lower		77.0	23.8
Upper		115.6	35.8





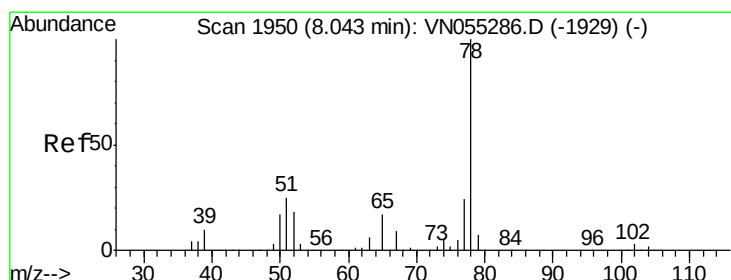
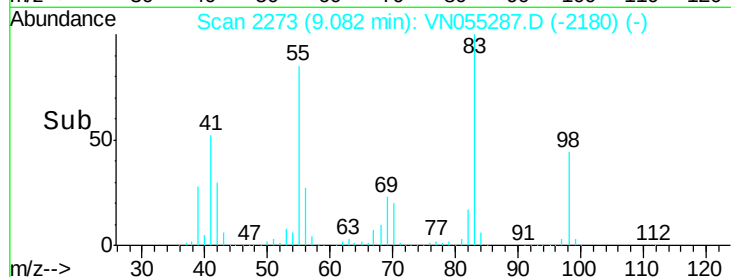
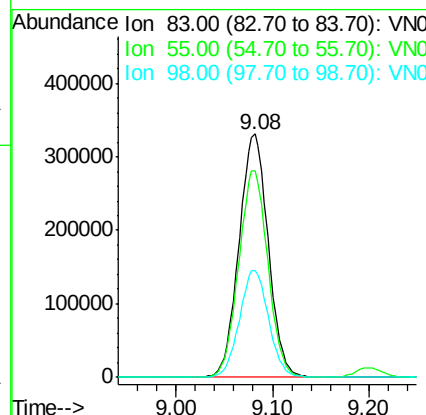
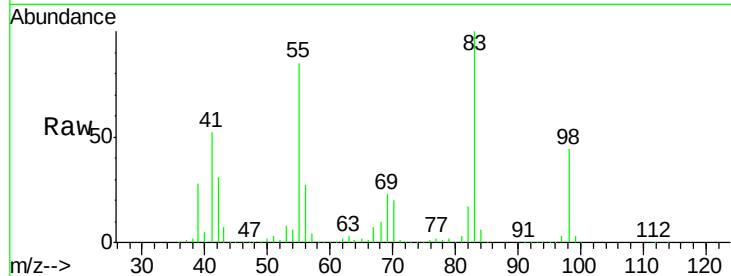
#39
Methylvlcyclohexane
Concen: 91.252 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	83.00	Resp	693844
Ion	Ratio	Lower	Upper
83	100		
55	84.7	67.8	101.6
98	43.9	36.2	54.4

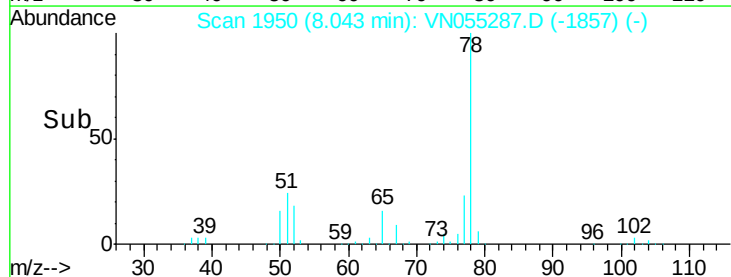
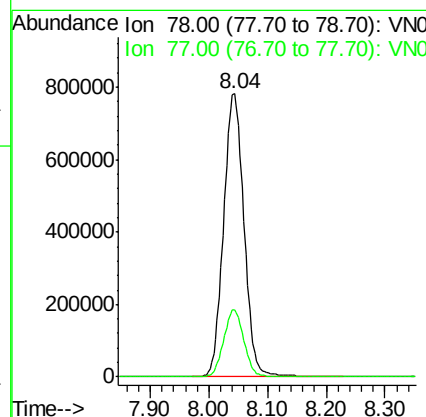
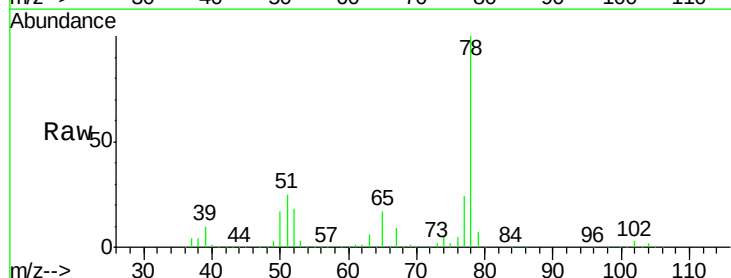
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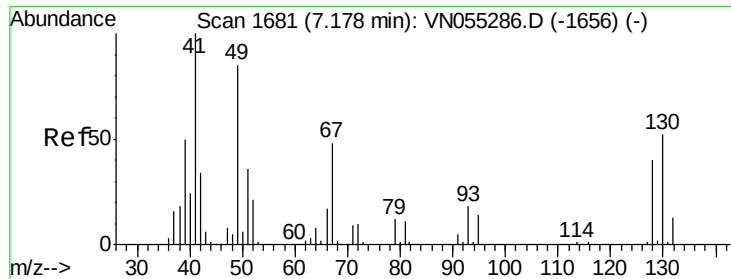
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#40
Benzene
Concen: 94.492 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Tgt Ion	78.00	Resp	1873327
Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.6





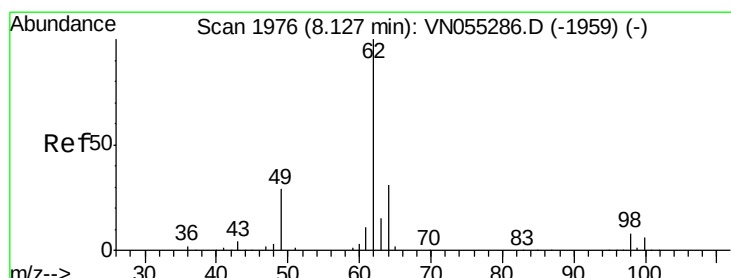
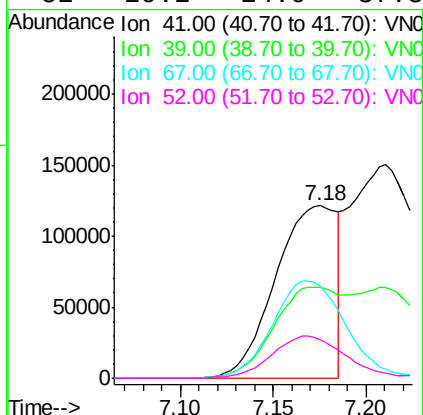
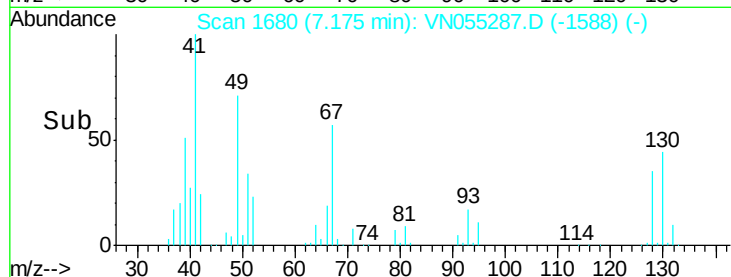
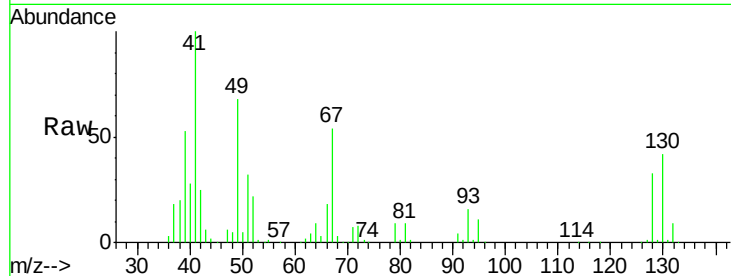
#41
Methacrylonitrile
Concen: 102.554 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.4	48.5	72.7	
67	68.8	54.9	82.3	
52	29.2	24.9	37.3	

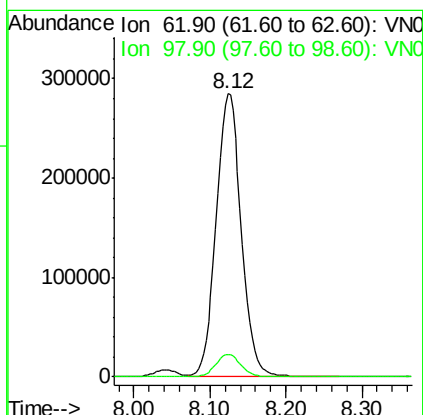
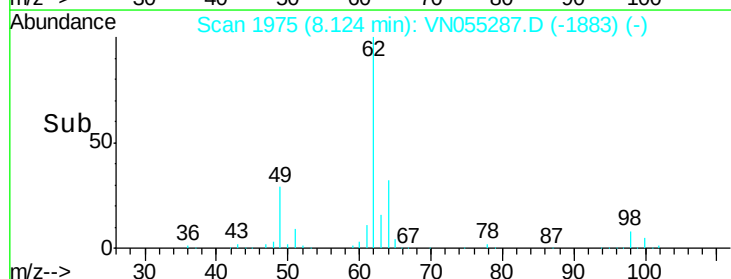
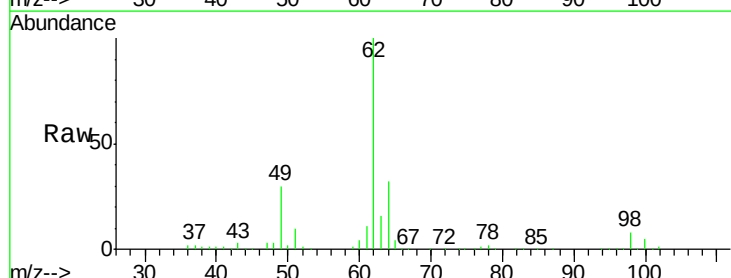
Manual Integrations
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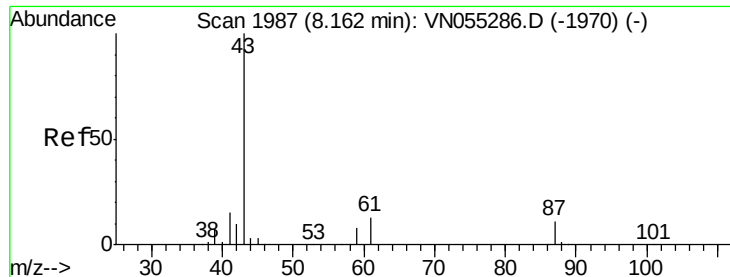
MMDadoda
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#42
1,2-Dichloroethane
Concen: 94.031 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.1	0.0	16.4	





#43

Isopropyl Acetate

Concen: 101.460 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

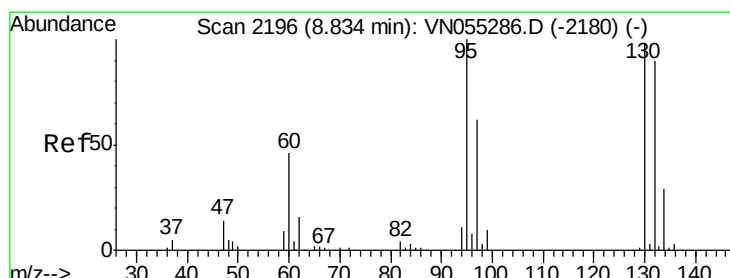
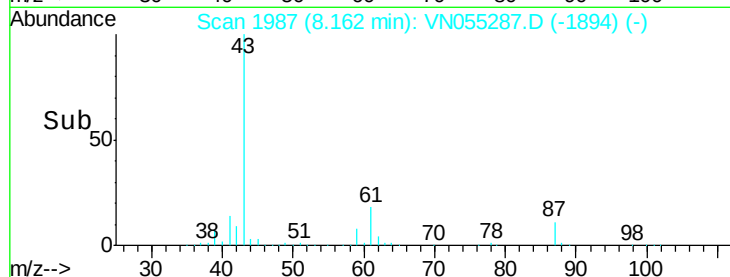
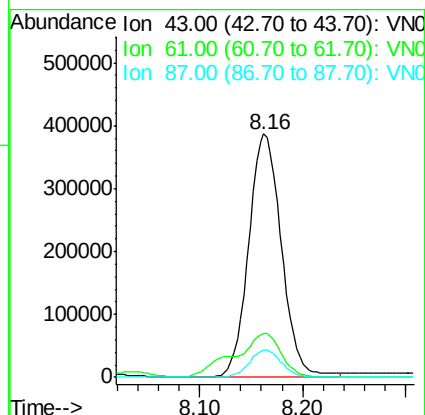
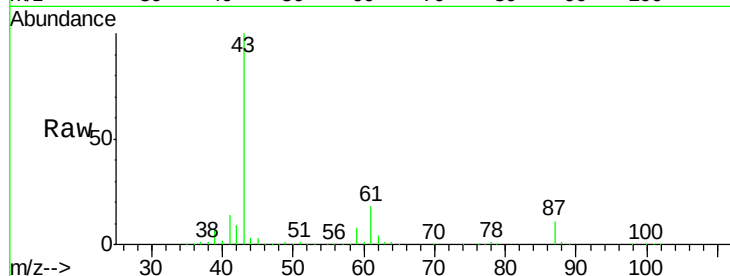
ClientSampleId :

VSTDICC100

Tot Ion:	43	Resp:	851394
Ion	Ratio	Lower	Upper
43	100		
61	25.7	20.8	31.2
87	11.0	8.5	12.7

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4/30/2019 11:59:10 AM



#44

Trichloroethene

Concen: 93.682 ug/l

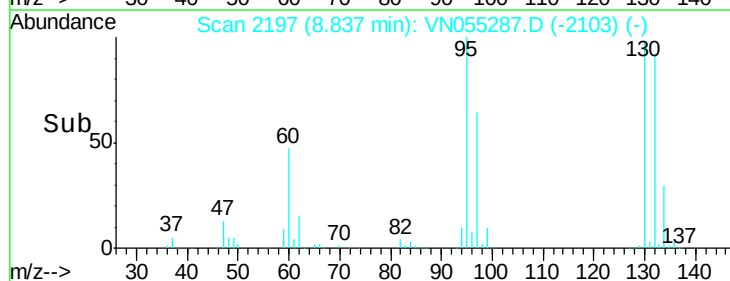
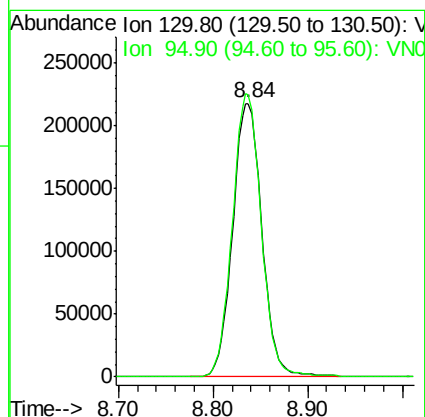
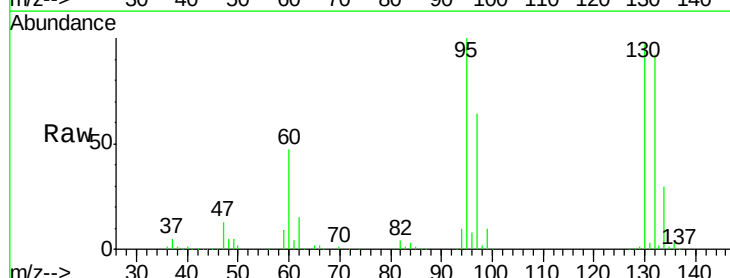
RT: 8.84 min Scan# 2197

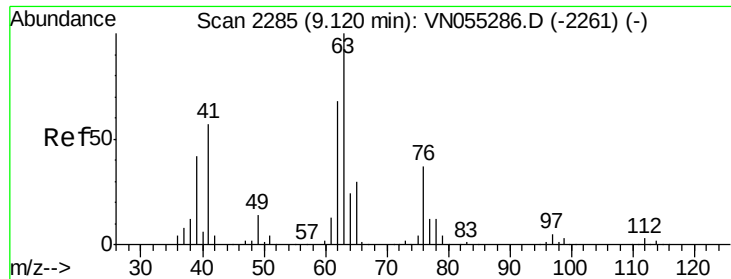
Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Tgt Ion:	130	Resp:	468339
Ion	Ratio	Lower	Upper
130	100		
95	103.0	0.0	203.4





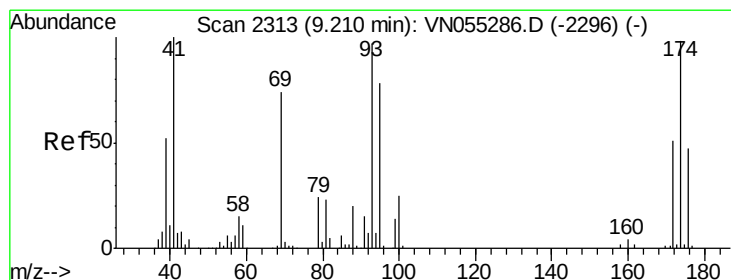
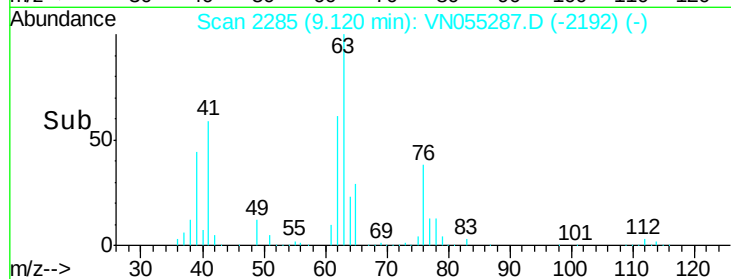
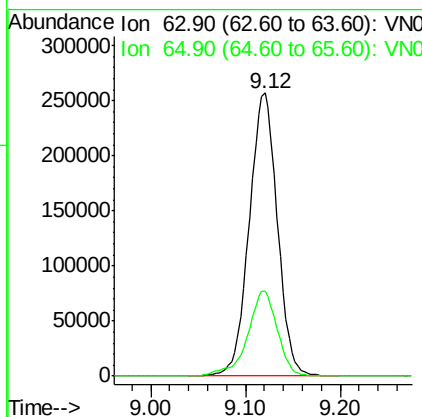
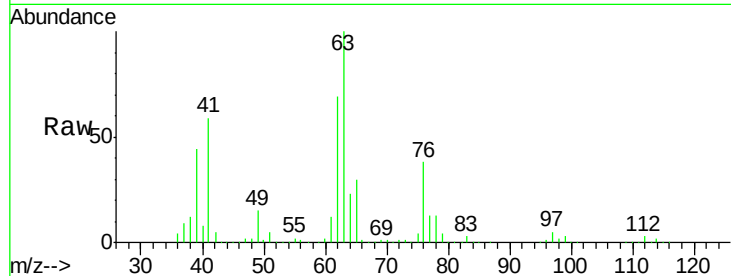
#45
 1,2-Dichloropropane
 Concen: 94.609 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 63 Resp: 530894
 Ion Ratio Lower Upper
 63 100
 65 30.0 23.9 35.9

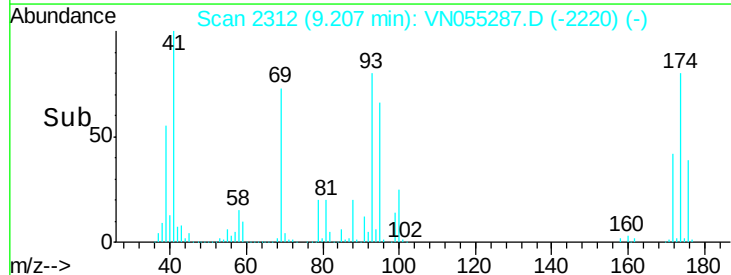
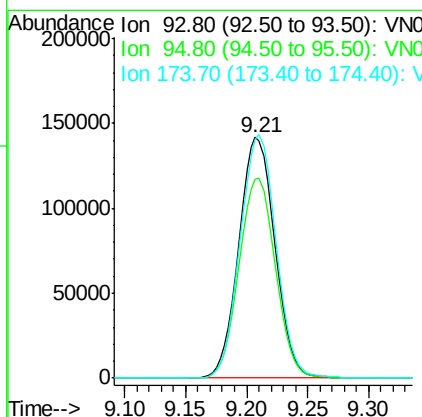
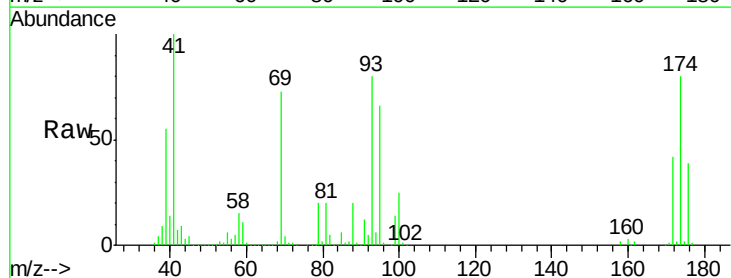
Manual Integrations
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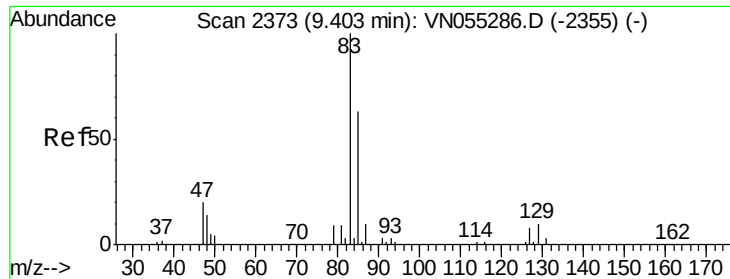
MMDadoda
 4/30/2019 11:59:10 AM



#46
 Dibromomethane
 Concen: 90.854 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Tgt Ion: 93 Resp: 290275
 Ion Ratio Lower Upper
 93 100
 95 83.9 65.7 98.5
 174 100.8 81.5 122.3





#47

Bromodichloromethane

Concen: 100.740 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

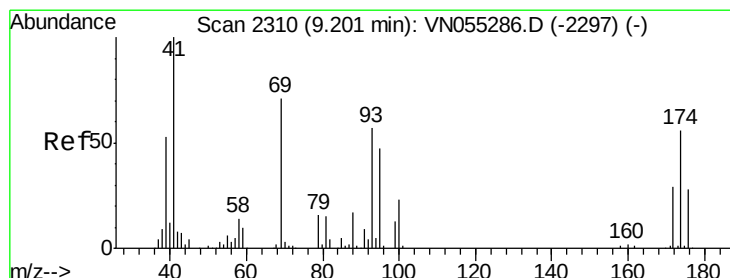
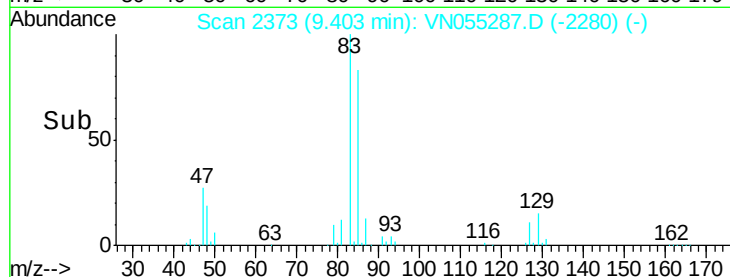
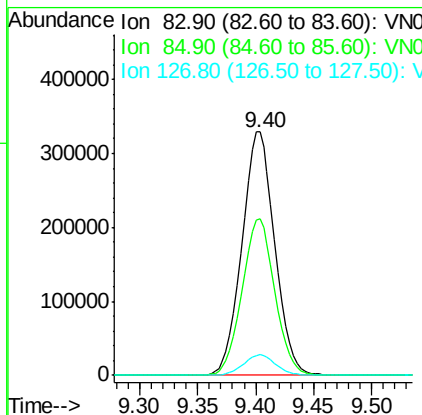
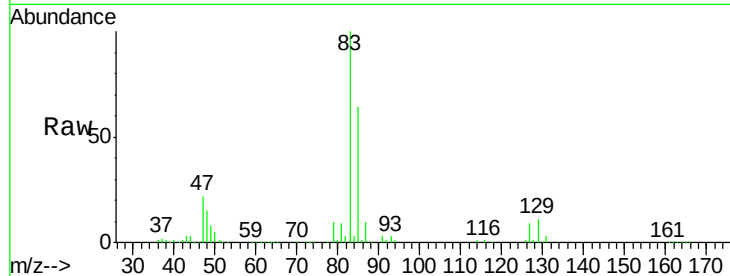
ClientSampleId :

VSTDIC100

Tot Ion:	83	Resp:	647271
Ion Ratio	Lower	Upper	
83	100		
85	64.2	50.1	75.1
127	8.5	6.7	10.1

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#48

Methyl methacrylate

Concen: 99.561 ug/l

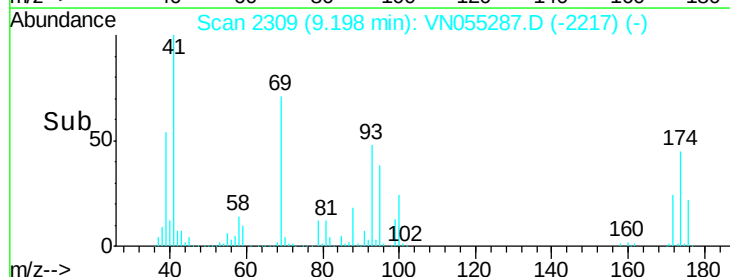
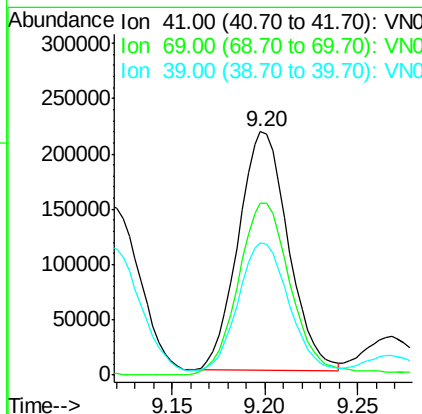
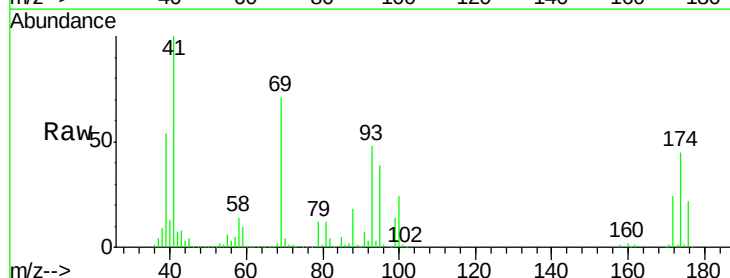
RT: 9.20 min Scan# 2309

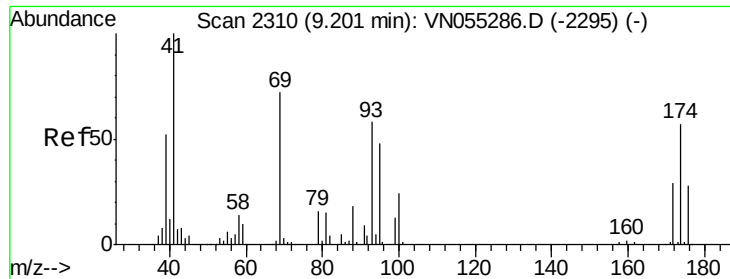
Delta R.T. -0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Tgt Ion:	41	Resp:	407521
Ion Ratio	Lower	Upper	
41	100		
69	76.4	58.6	87.8
39	56.6	43.8	65.6





#49

1,4-Dioxane

Concen: 1841.821 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 88 Resp: 85042

Ion Ratio Lower Upper

88 100

43 40.3 33.3 49.9

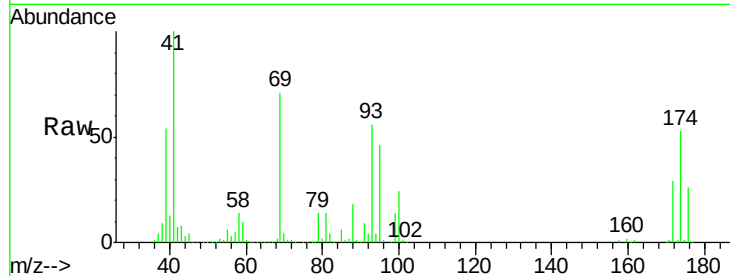
58 75.2 62.7 94.1

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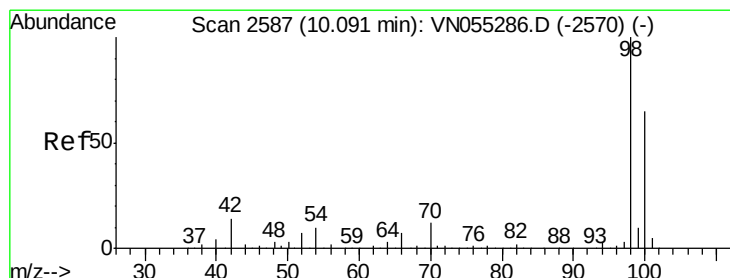
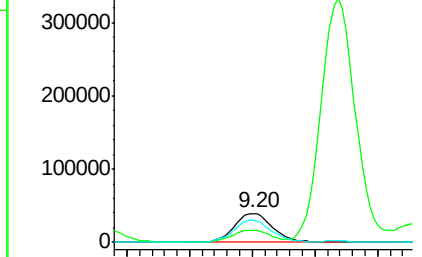
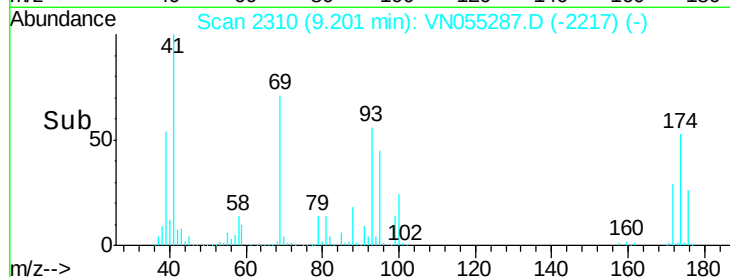
4/30/2019 11:59:10 AM



Abundance Ion 88.00 (87.70 to 88.70): VN055287.D (-2217) (-)

Ion 43.00 (42.70 to 43.70): VN055287.D (-2217) (-)

Ion 58.00 (57.70 to 58.70): VN055287.D (-2217) (-)



#50

Toluene-d8

Concen: 93.690 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055287.D

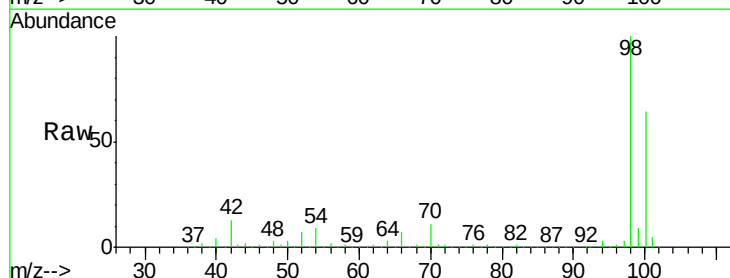
Acq: 29 Apr 2019 11:57

Tgt Ion: 98 Resp: 1625688

Ion Ratio Lower Upper

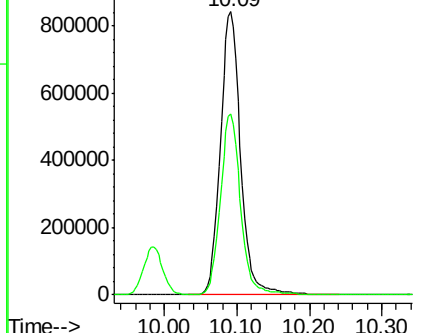
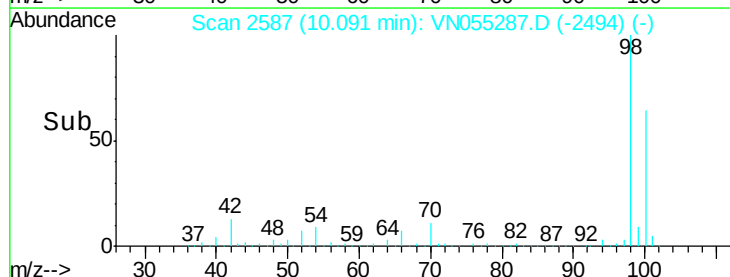
98 100

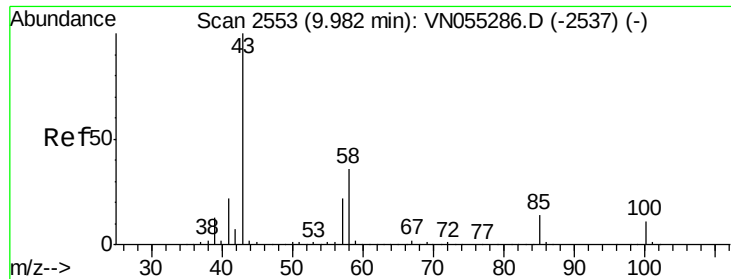
100 64.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN055287.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN055287.D (-2494) (-)





#51

4-Methyl-2-Pentanone

Concen: 484.580 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 43 Resp: 2339280

Ion Ratio Lower Upper

43 100

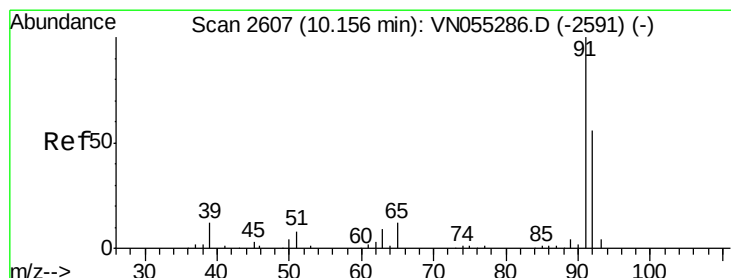
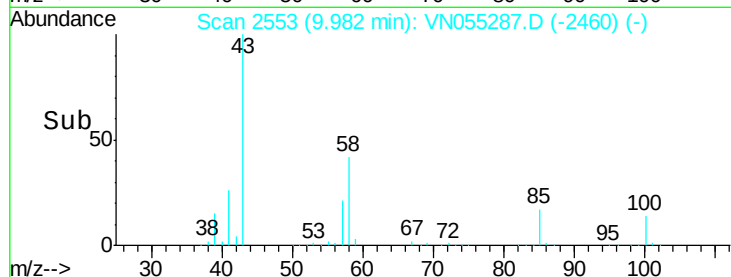
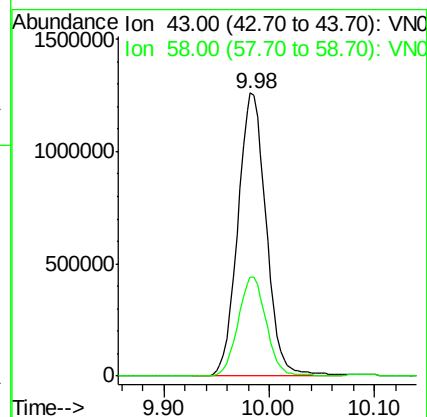
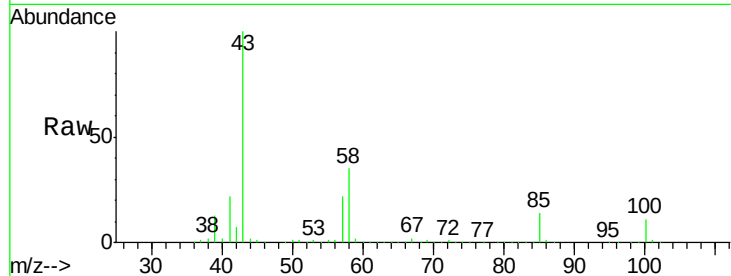
58 35.0 28.5 42.7

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4/30/2019 11:59:10 AM



#52

Toluene

Concen: 94.284 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055287.D

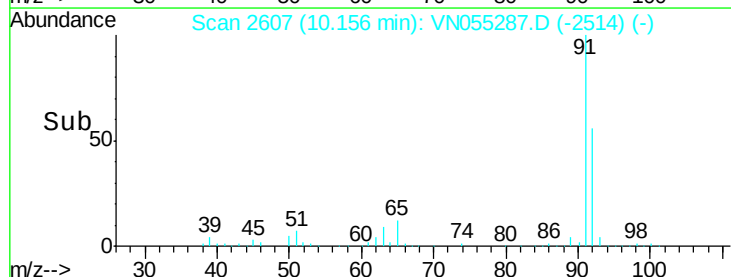
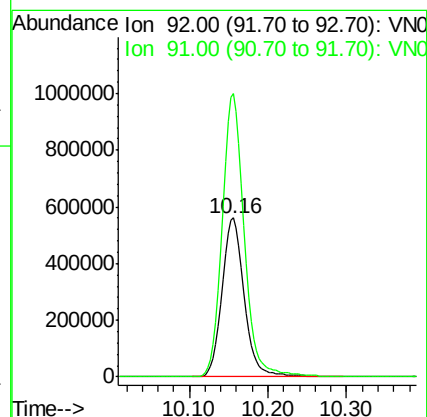
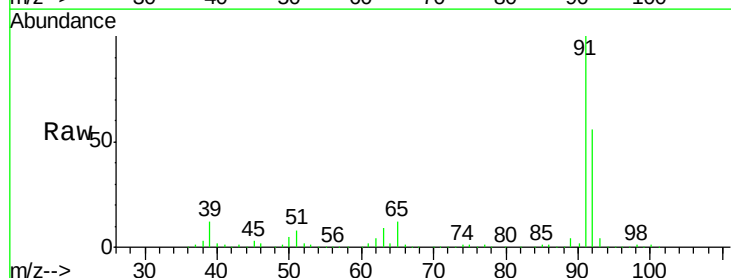
Acq: 29 Apr 2019 11:57

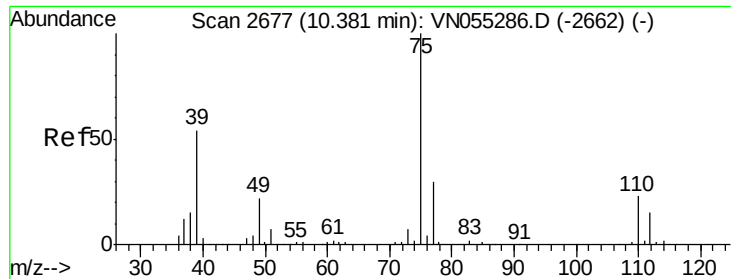
Tgt Ion: 92 Resp: 1090372

Ion Ratio Lower Upper

92 100

91 176.7 140.1 210.1





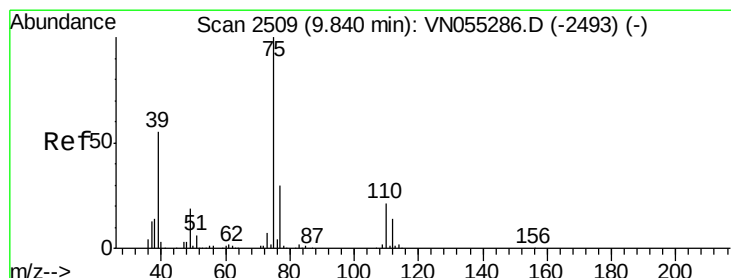
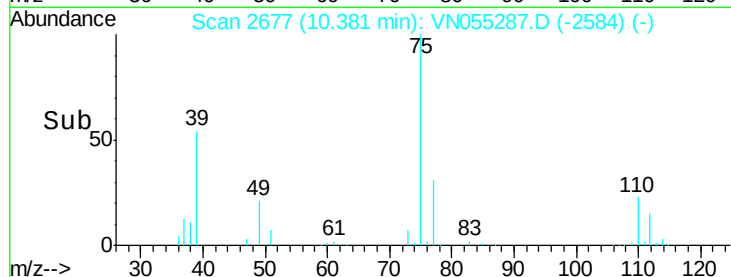
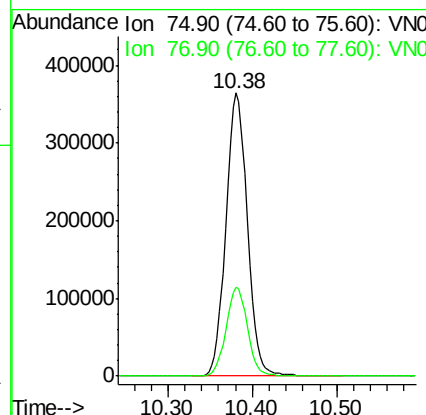
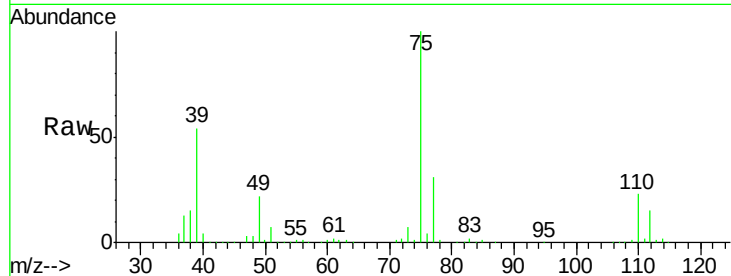
#53
 t-1,3-Dichloropropene
 Concen: 109.269 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. 0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 75 Resp: 644069
 Ion Ratio Lower Upper
 75 100
 77 31.3 24.4 36.6

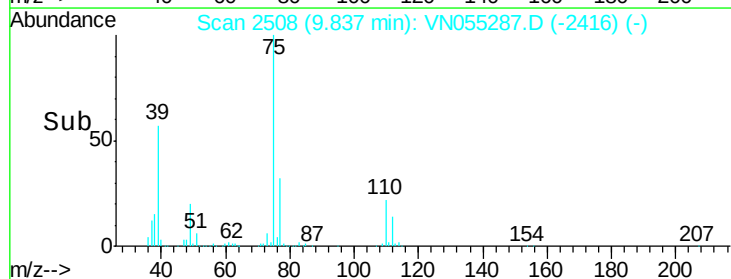
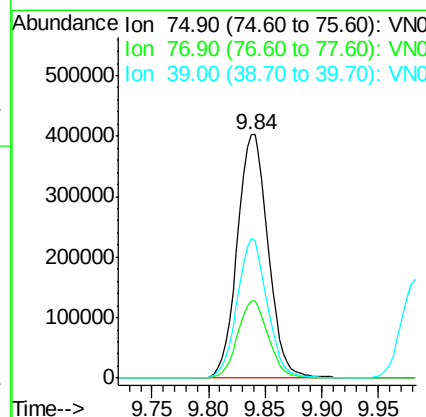
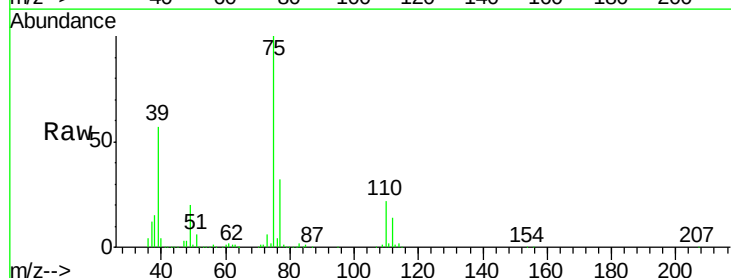
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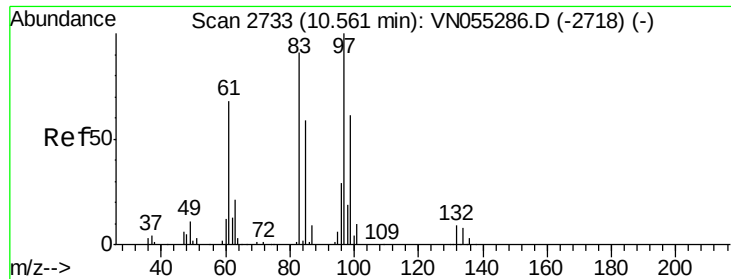
MMDadoda
 4/30/2019 11:59:10 AM



#54
 cis-1,3-Dichloropropene
 Concen: 104.786 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. -0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Tgt Ion: 75 Resp: 766417
 Ion Ratio Lower Upper
 75 100
 77 31.7 24.2 36.2
 39 57.2 44.2 66.2





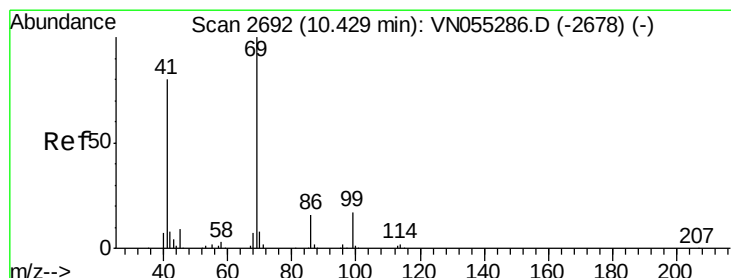
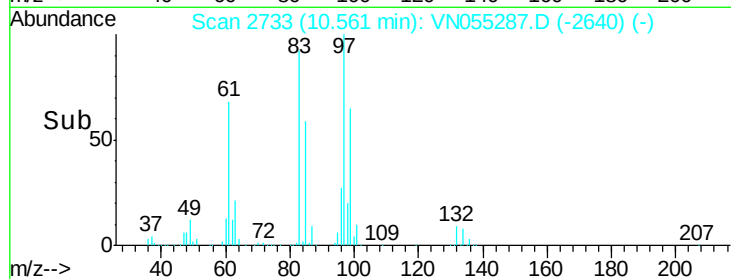
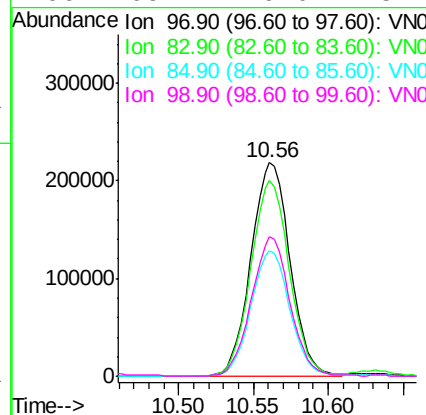
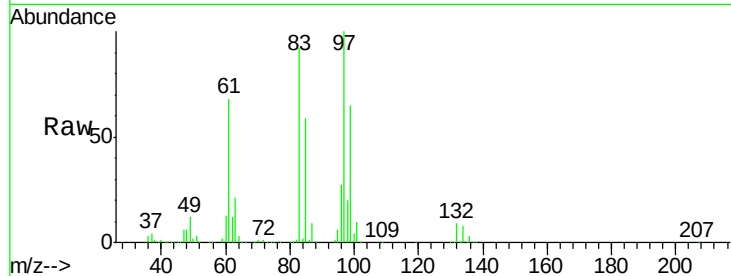
#55
 1,1,2-Trichloroethane
 Concen: 92.743 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:	97	Resp:	397721
Ion	Ratio	Lower	Upper
97	100		
83	91.5	72.8	109.2
85	58.8	47.0	70.6
99	65.1	49.0	73.4

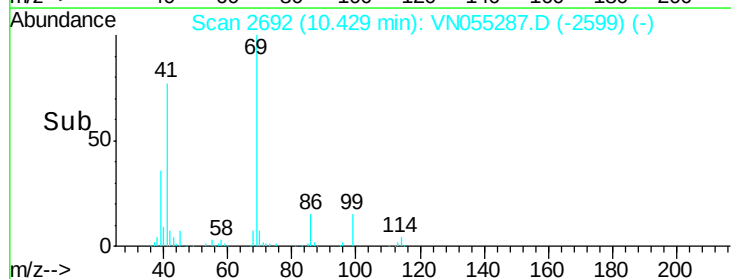
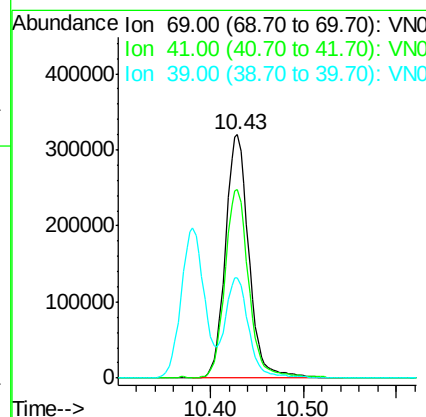
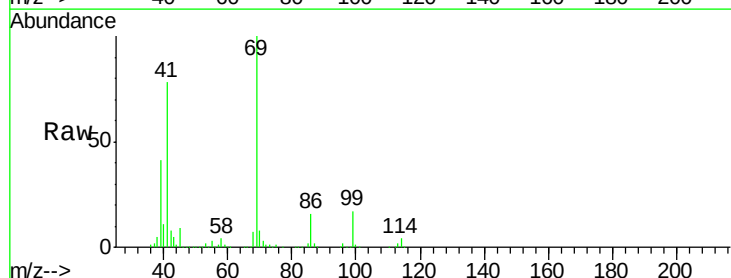
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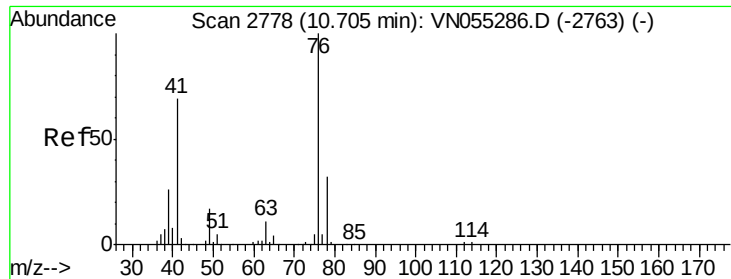
MMDadoda
 4/30/2019 11:59:10 AM



#56
 Ethyl methacrylate
 Concen: 105.631 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Tgt Ion:	69	Resp:	562614
Ion	Ratio	Lower	Upper
69	100		
41	78.3	62.7	94.1
39	40.5	32.0	48.0





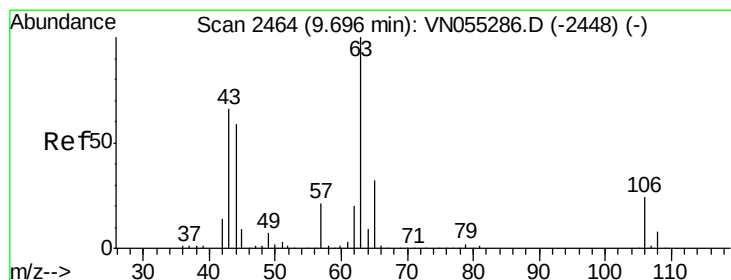
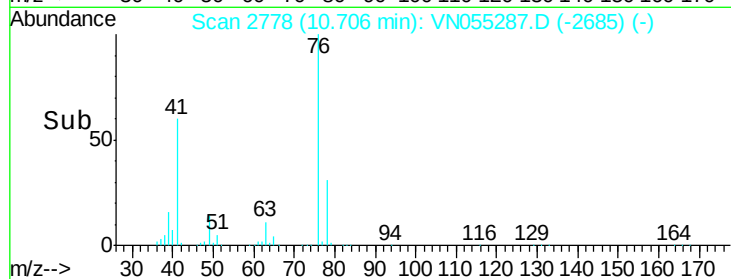
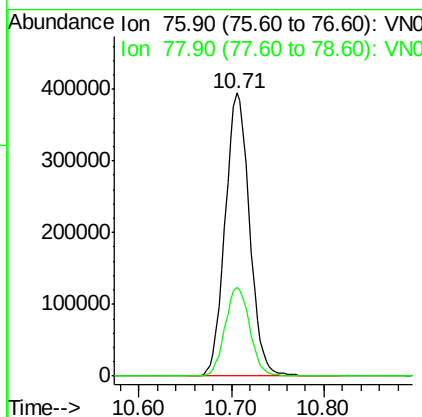
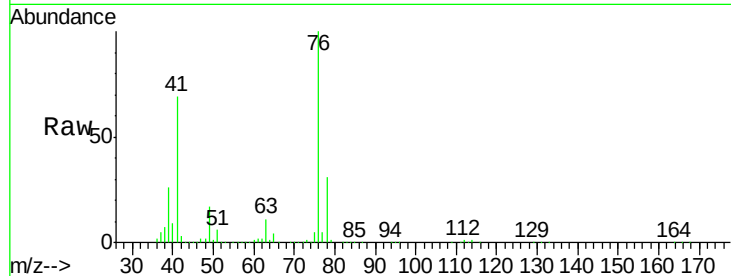
#57
 1,3-Dichloropropane
 Concen: 96.522 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 76 Resp: 719275
 Ion Ratio Lower Upper
 76 100
 78 32.0 25.6 38.4

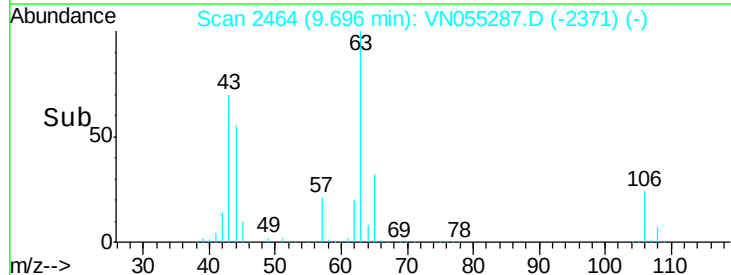
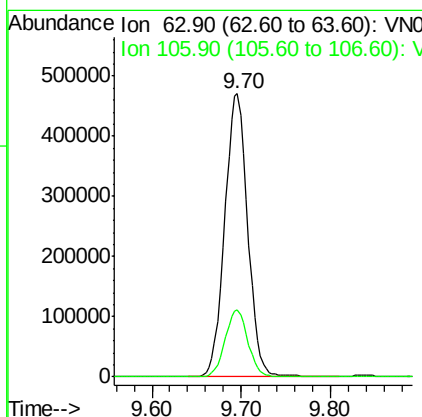
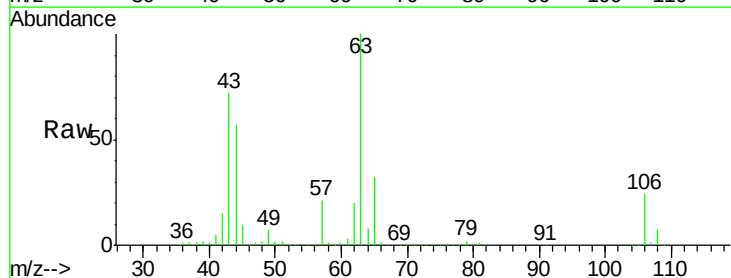
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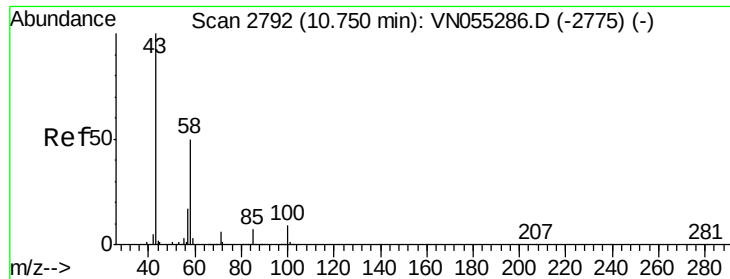
MMDadoda
 4/30/2019 11:59:10 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 510.453 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Tgt Ion: 63 Resp: 839115
 Ion Ratio Lower Upper
 63 100
 106 23.5 19.0 28.4





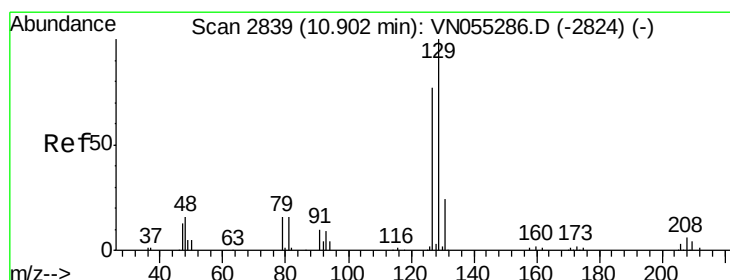
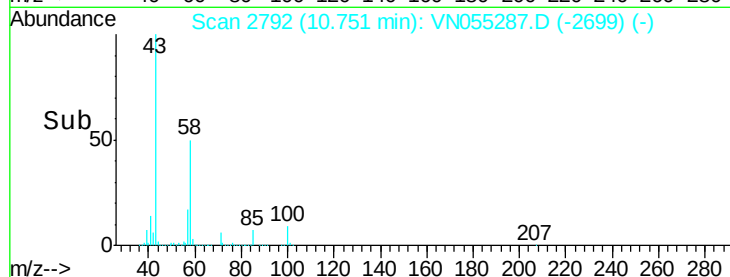
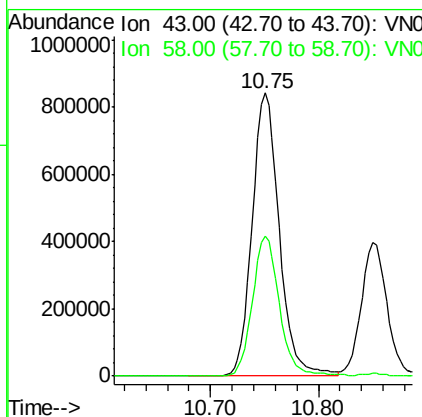
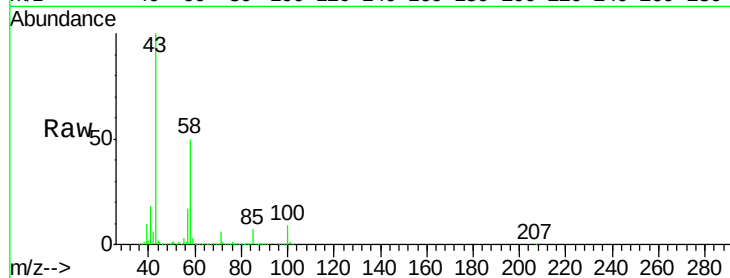
#59
2-Hexanone
Concen: 486.316 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 1465432
Ion Ratio Lower Upper
43 100
58 49.2 24.9 74.6

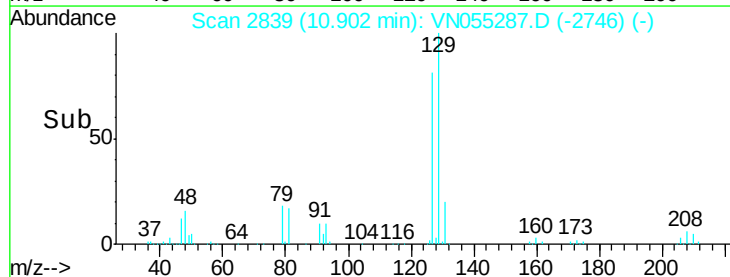
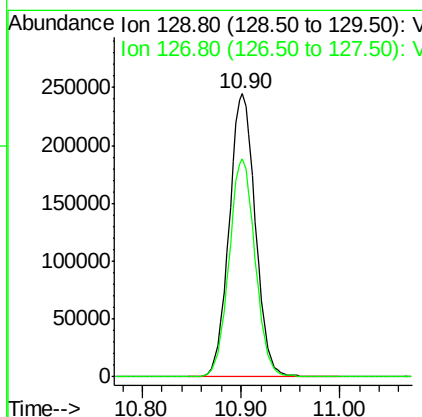
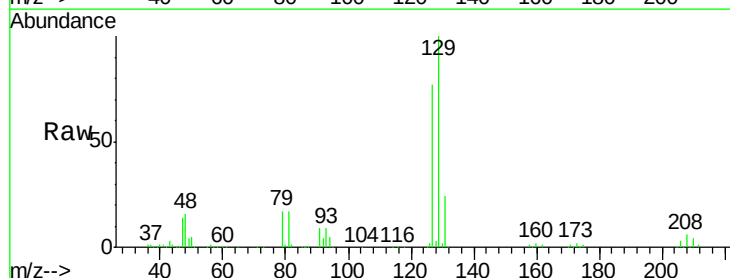
Manual Integrations
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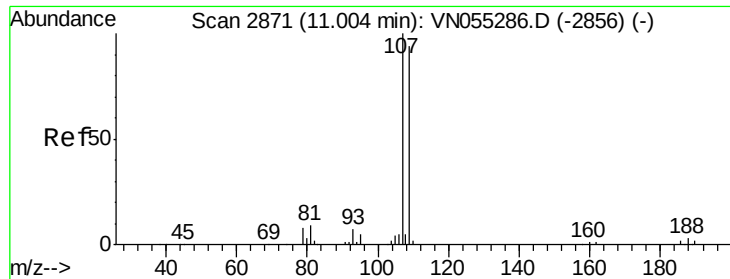
MMDadoda
4/30/2019 11:59:10 AM



#60
Dibromochloromethane
Concen: 102.351 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Tgt Ion: 129 Resp: 452707
Ion Ratio Lower Upper
129 100
127 76.6 38.1 114.5





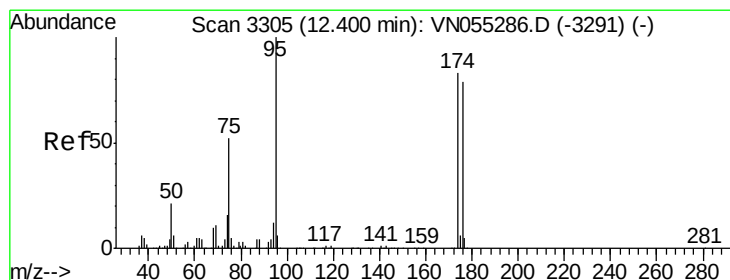
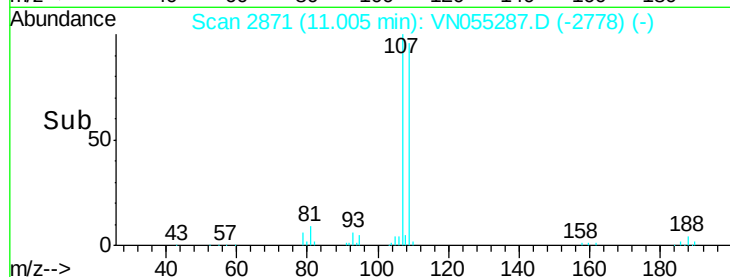
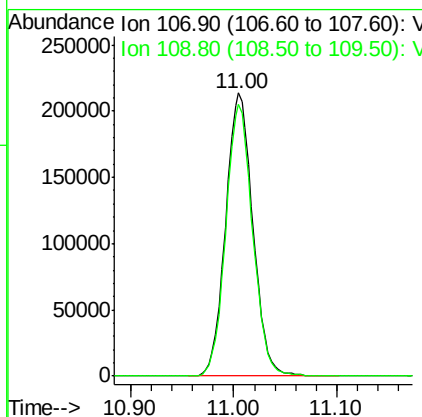
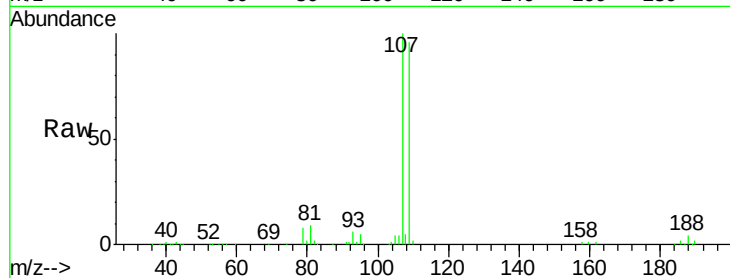
#61
 1,2-Dibromoethane
 Concen: 97.786 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
107	100	392579		
109	94.8	75.0	112.6	

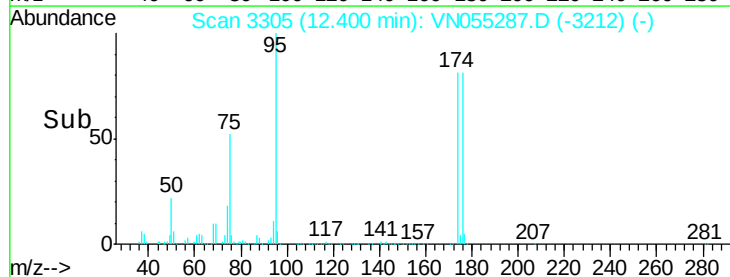
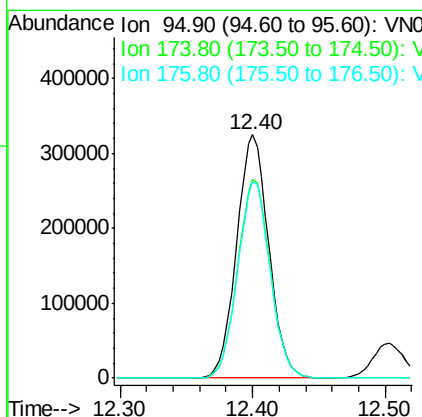
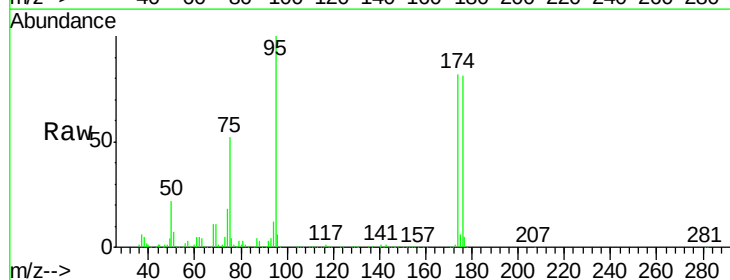
Manual Integrations
 APPROVED

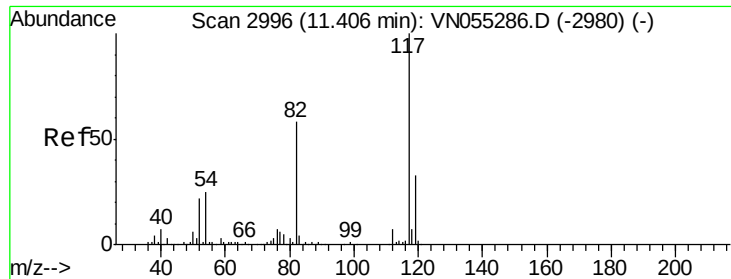
MMDadoda
 4/30/2019 11:59:10 AM



#62
 4-Bromofluorobenzene
 Concen: 99.505 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	545203		
174	83.3	0.0	166.6	
176	81.8	0.0	157.8	





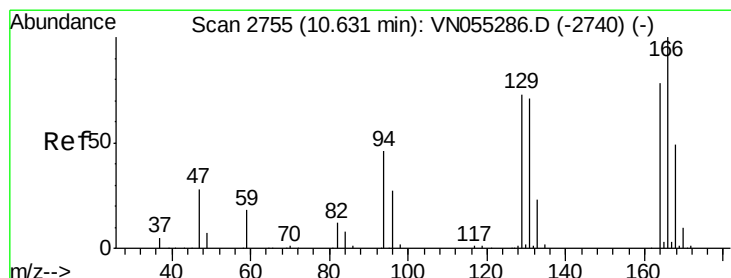
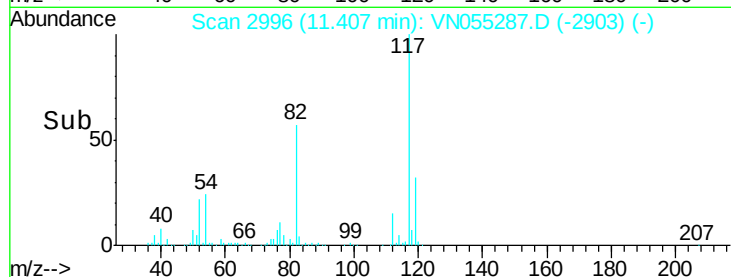
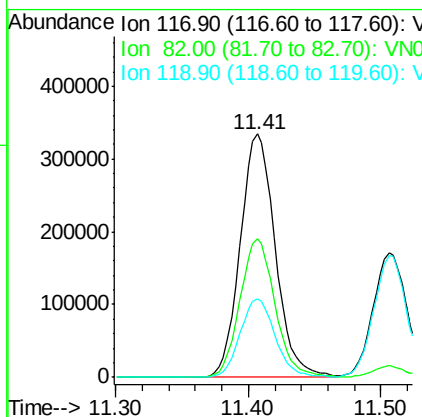
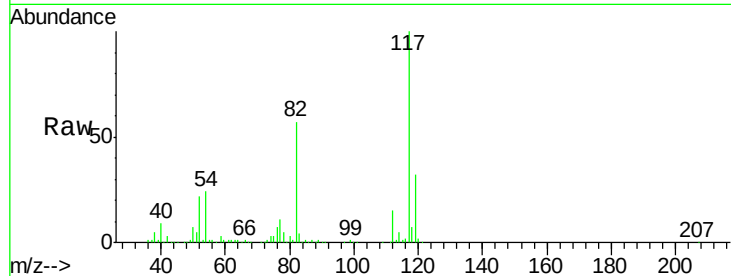
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
117	100	615054		
82	56.9	46.2	69.4	
119	32.3	26.6	40.0	

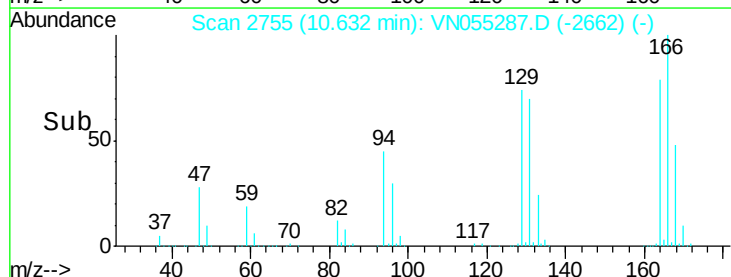
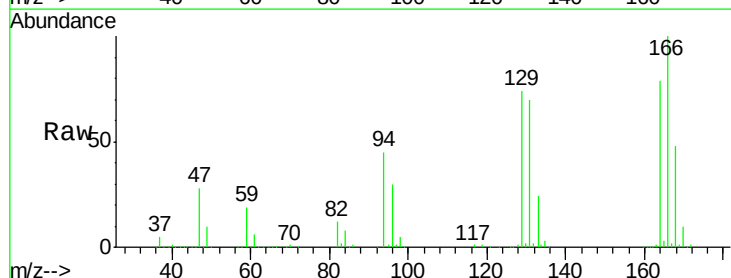
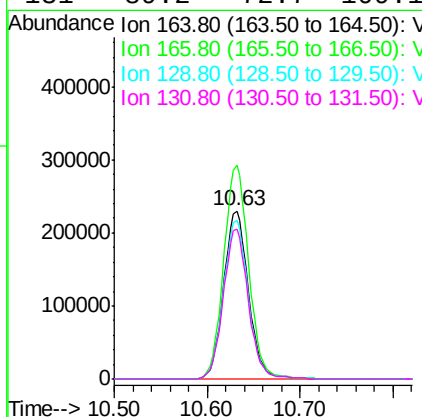
Manual Integrations
APPROVED

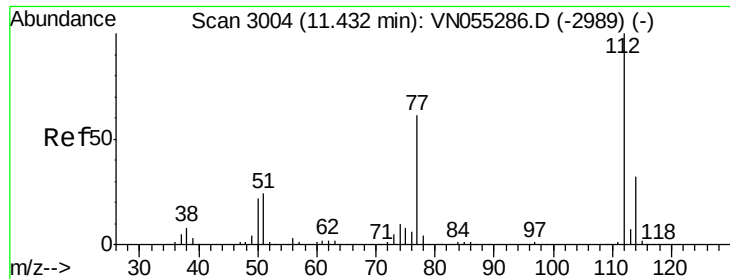
MMDadoda
4/30/2019 11:59:10 AM



#64
Tetrachloroethene
Concen: 85.544 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	425828		
166	127.0	102.3	153.5	
129	94.4	75.0	112.6	
131	89.2	72.7	109.1	





#65

Chlorobenzene

Concen: 91.355 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:112 Resp: 1136747

Ion Ratio Lower Upper

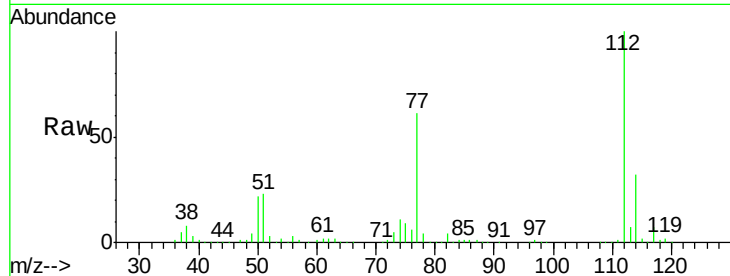
112 100

114 31.8 25.3 37.9

Manual Integrations
APPROVED

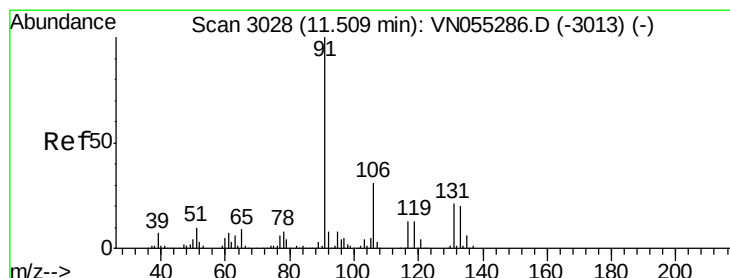
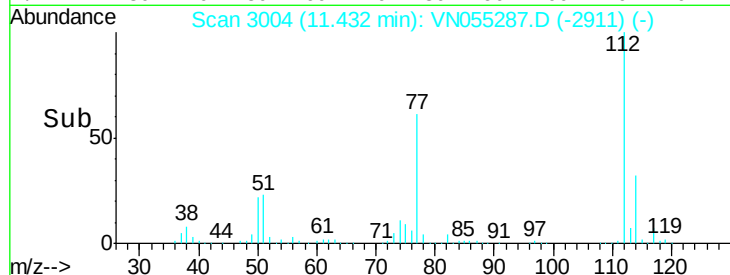
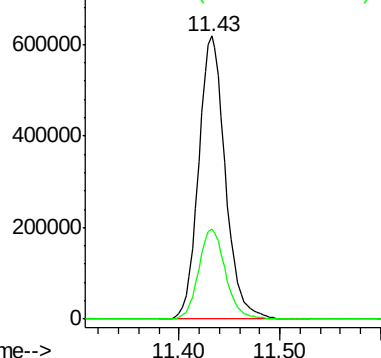
MMDadoda

4/30/2019 11:59:10 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 95.116 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

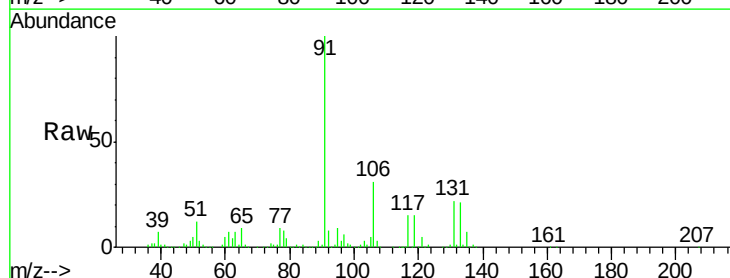
Tgt Ion:131 Resp: 440679

Ion Ratio Lower Upper

131 100

133 95.4 47.5 142.6

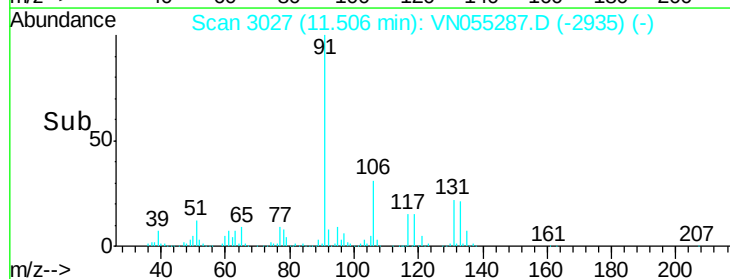
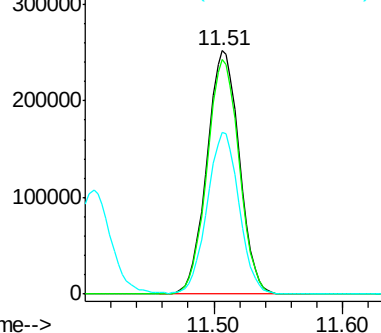
119 65.5 32.7 98.1

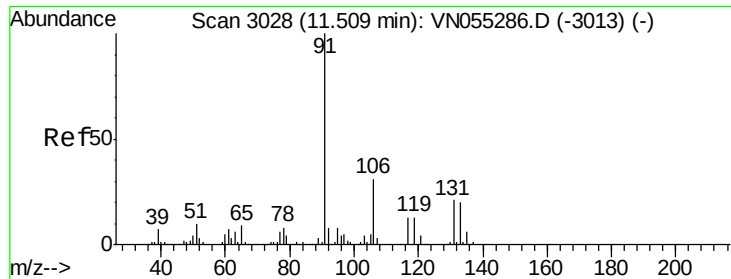


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





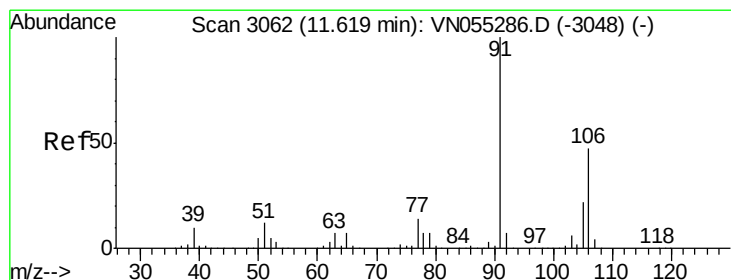
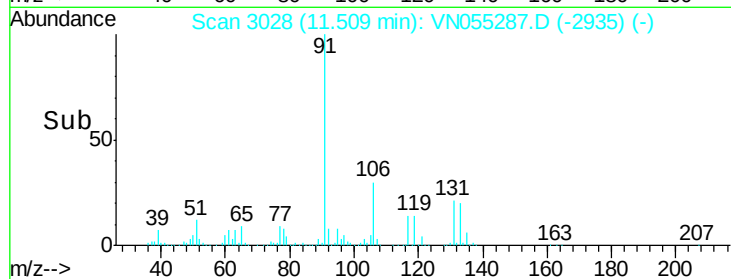
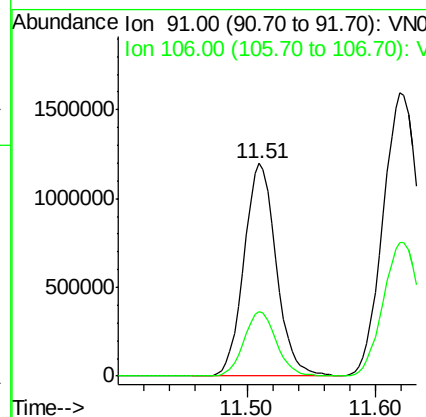
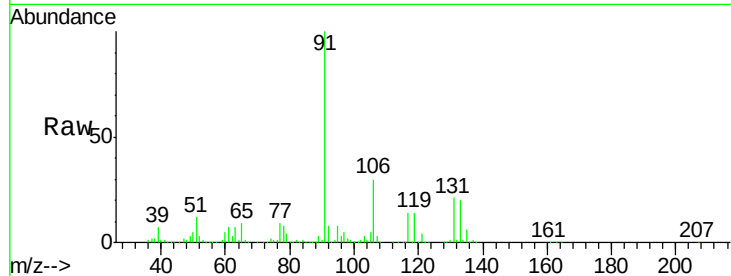
#67
Ethyl Benzene
Concen: 94.005 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 91 Resp: 2085122
Ion Ratio Lower Upper
91 100
106 30.4 24.6 36.8

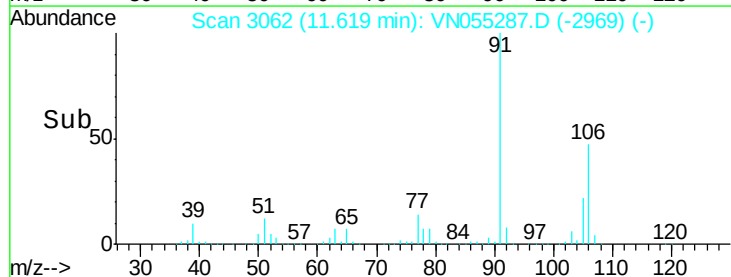
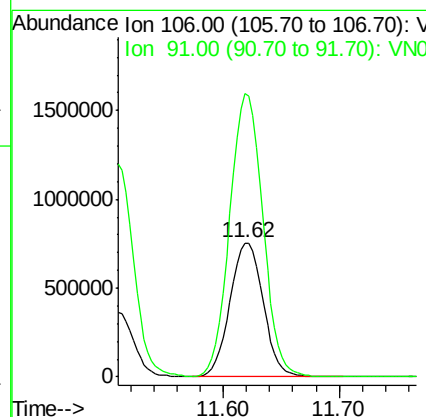
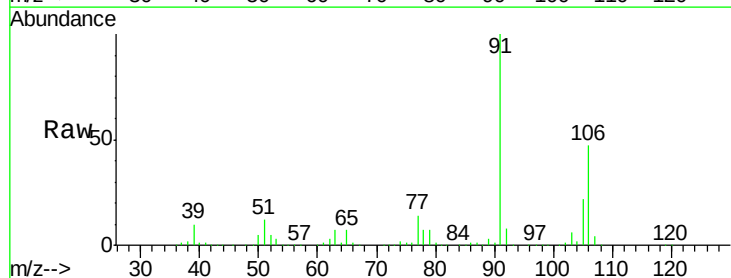
Manual Integrations
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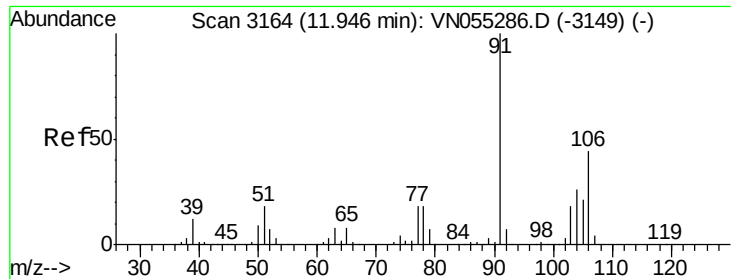
MMDadoda
4/30/2019 11:59:10 AM



#68
m/p-Xylenes
Concen: 189.187 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Tgt Ion: 106 Resp: 1500151
Ion Ratio Lower Upper
106 100
91 210.9 169.5 254.3





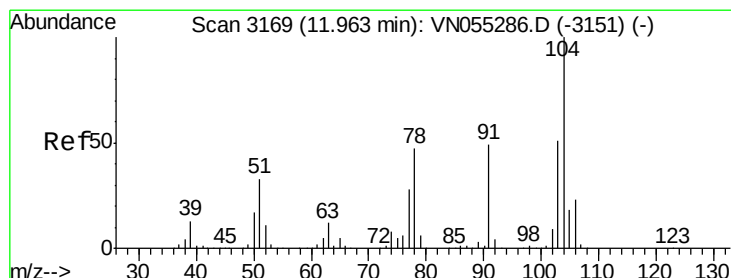
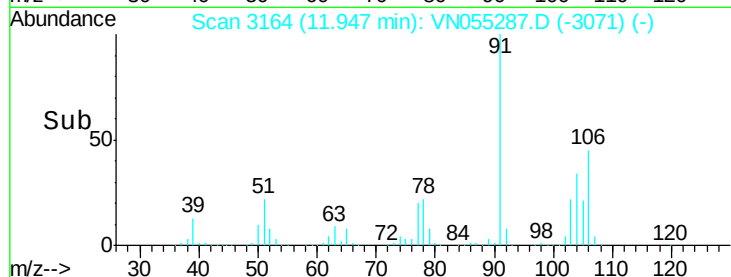
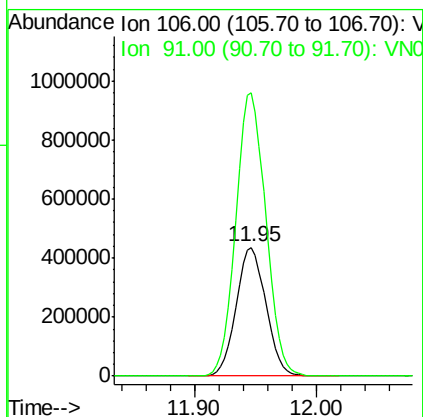
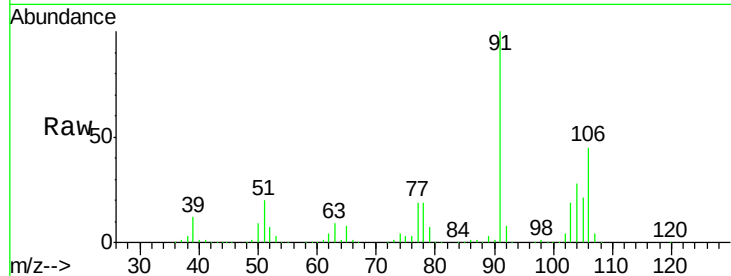
#69
o-Xylene
Concen: 93.132 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion:106 Resp: 733629
Ion Ratio Lower Upper
106 100
91 222.6 111.5 334.5

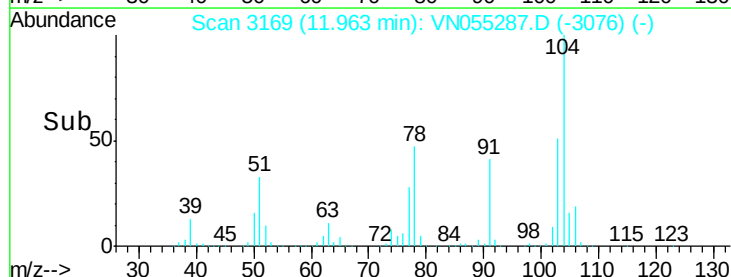
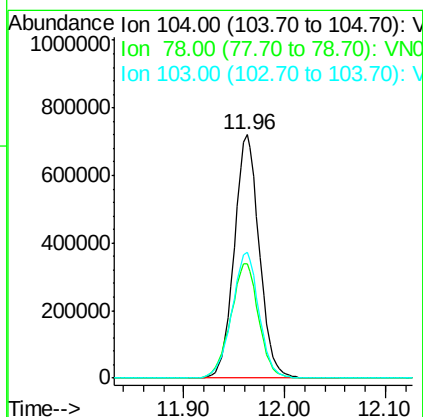
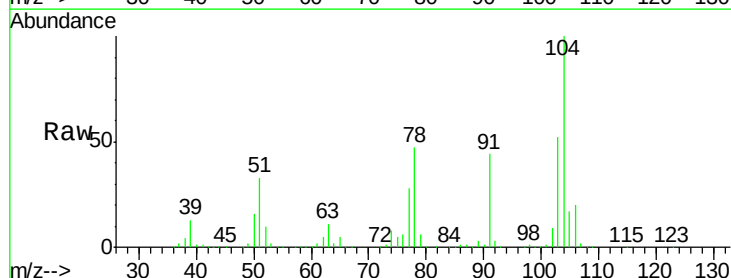
Manual Integrations
APPROVED

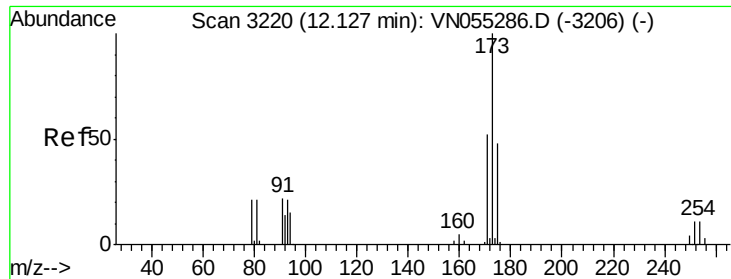
MMDadoda
4/30/2019 11:59:10 AM



#70
Styrene
Concen: 101.946 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Tgt Ion:104 Resp: 1241967
Ion Ratio Lower Upper
104 100
78 52.7 42.2 63.2
103 56.0 44.6 67.0





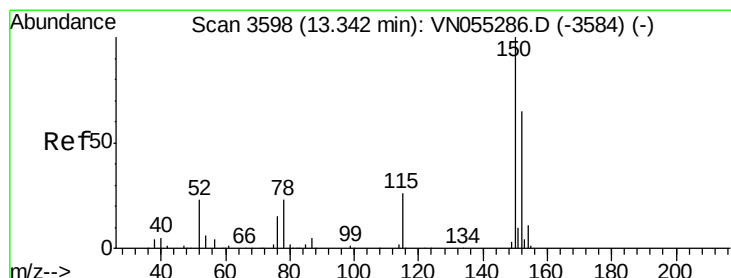
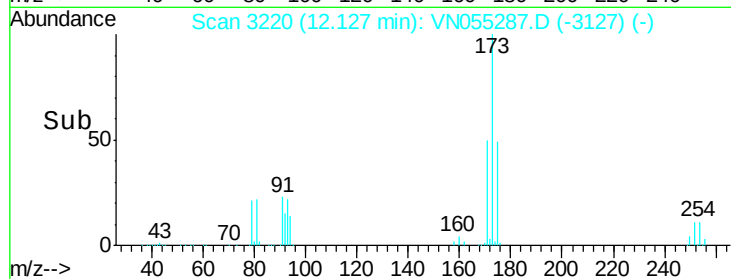
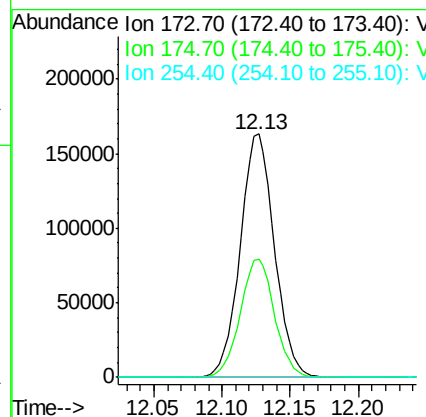
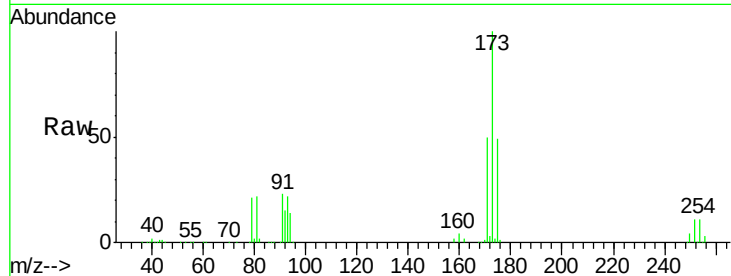
#71
Bromoform
Concen: 103.531 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	23.6	71.0
254	0.2	0.0	0.0

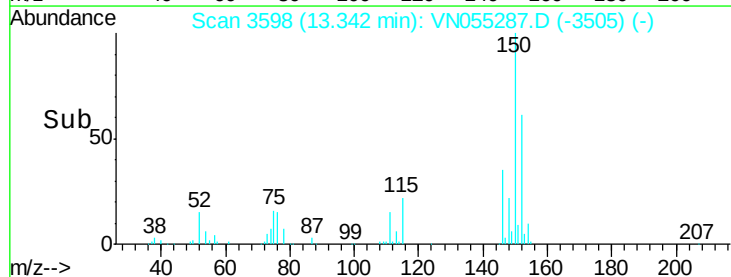
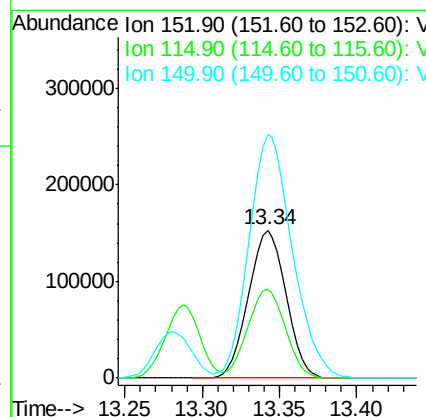
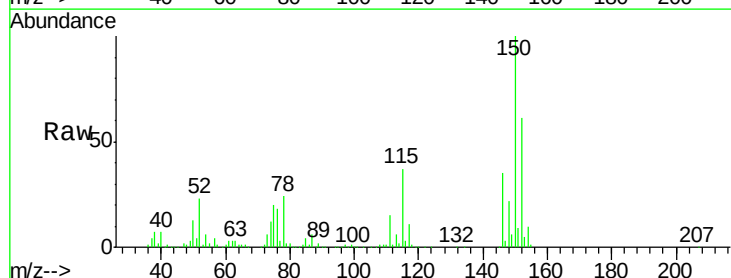
Manual Integrations
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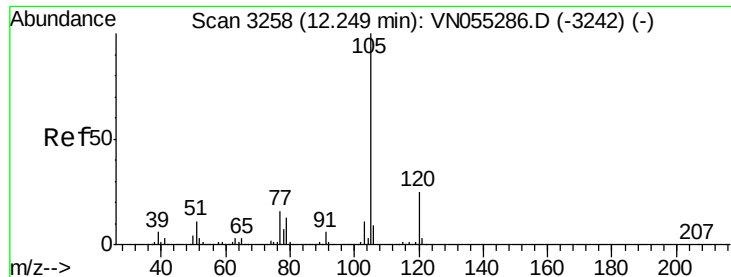
MMDadoda
4/30/2019 11:59:10 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055287.D
Acq: 29 Apr 2019 11:57

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.3	29.0	87.0
150	189.7	0.0	345.6





#73

Isopropylbenzene

Concen: 78.815 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:105 Resp: 1963345

Ion Ratio Lower Upper

105 100

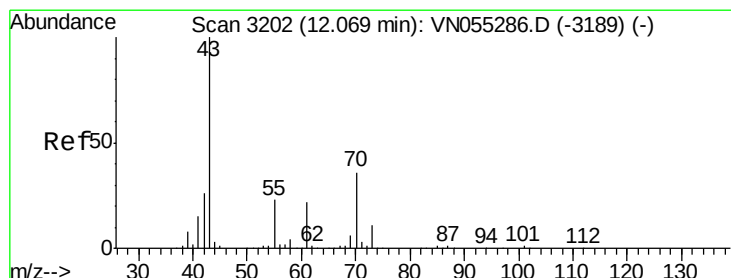
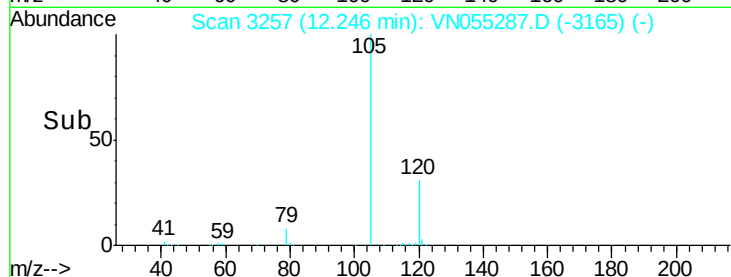
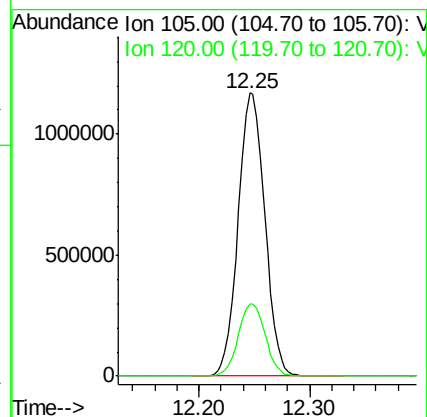
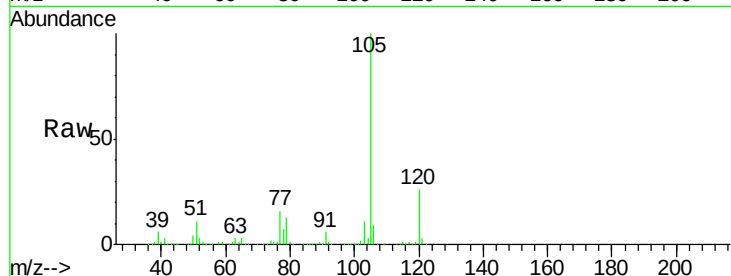
120 25.9 12.9 38.7

Manual Integrations

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4/30/2019 11:59:10 AM



#74

N-ethyl acetate

Concen: 99.133 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Tgt Ion: 43 Resp: 660255

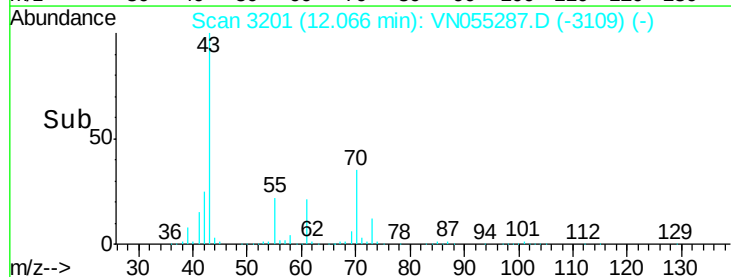
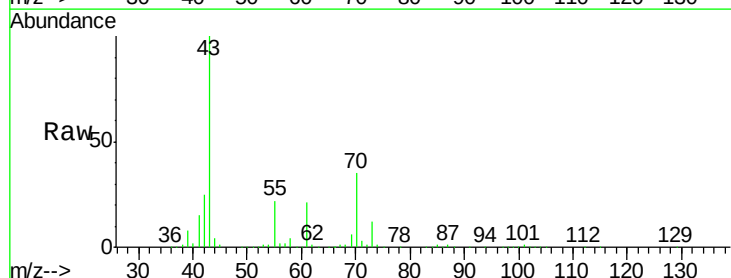
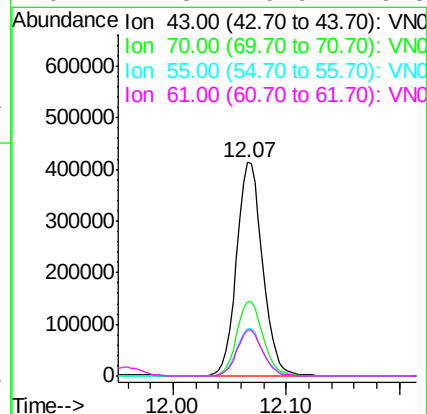
Ion Ratio Lower Upper

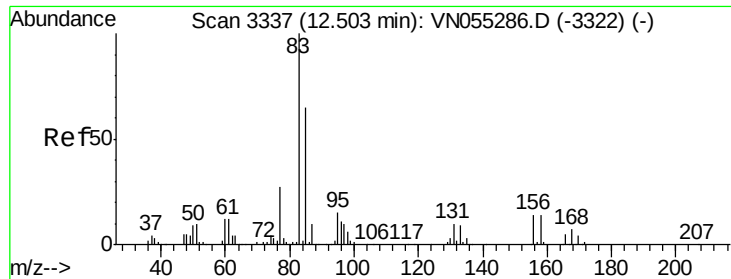
43 100

70 35.4 27.9 41.9

55 22.6 18.2 27.2

61 21.3 16.9 25.3





#75

1,1,2,2-Tetrachloroethane

Concen: 74.418 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

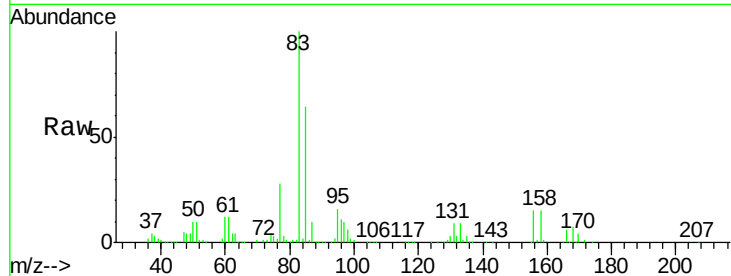
ClientSampleId :

VSTDIC100

Tot Ion:	83	Resp:	488970
Ion Ratio	Lower	Upper	
83	100		
131	9.6	5.1	15.2
85	63.9	32.3	96.8

Manual Integrations
APPROVED

MMDadoda
4/30/2019 11:59:10 AM



Abundance Ion 82.90 (82.60 to 83.60): VN055287.D (-3322) (-)

Ion 130.80 (130.50 to 131.50): VN055287.D (-3322) (-)

Ion 84.90 (84.60 to 85.60): VN055287.D (-3322) (-)

12.50

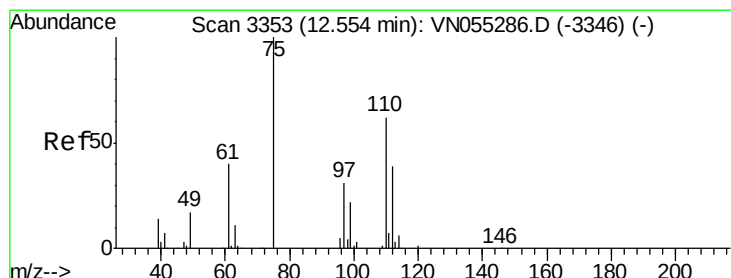
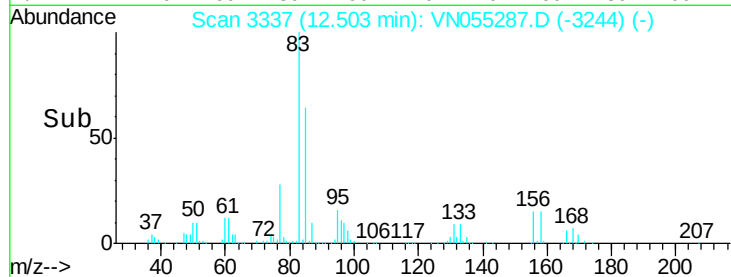
300000

200000

100000

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 87.266 ug/l m

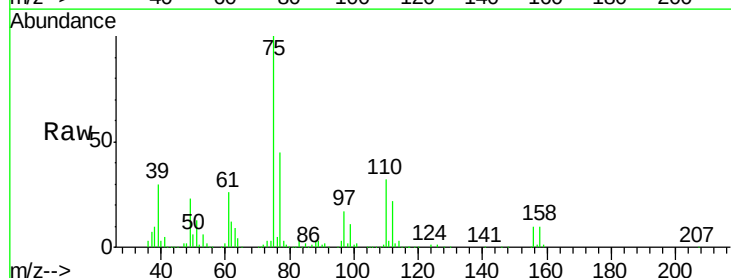
RT: 12.55 min Scan# 3352

Delta R.T. -0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Tgt Ion:	75	Resp:	463277
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN055287.D (-3352) (-)

Ion 77.00 (76.70 to 77.70): VN055287.D (-3352) (-)

500000

400000

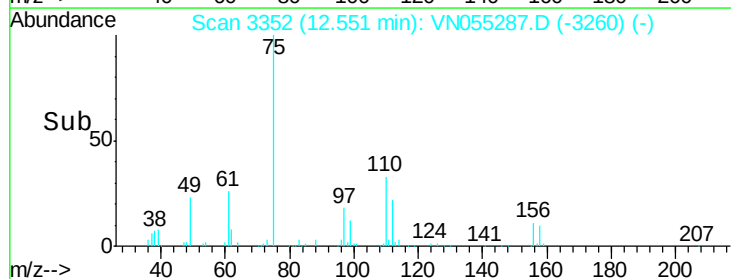
300000

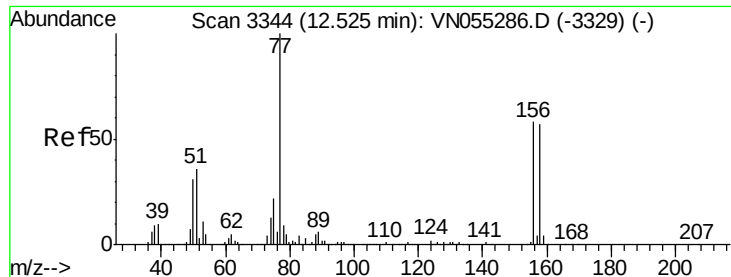
200000

100000

0

Time-->





#77

Bromobenzene

Concen: 84.002 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

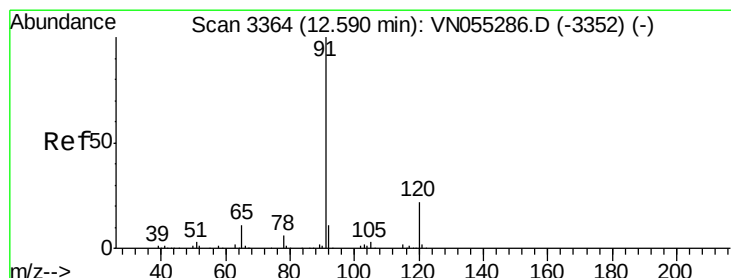
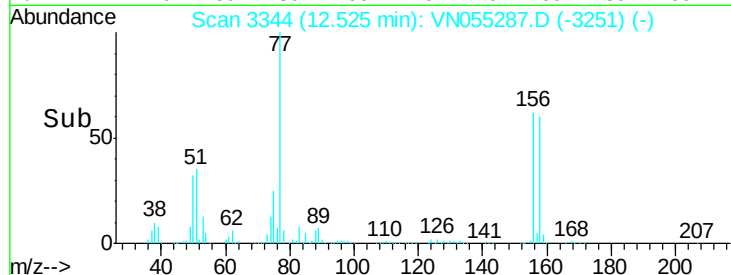
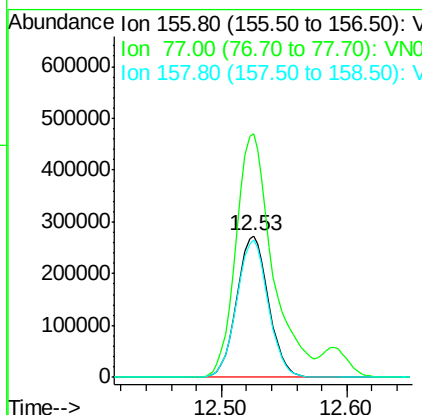
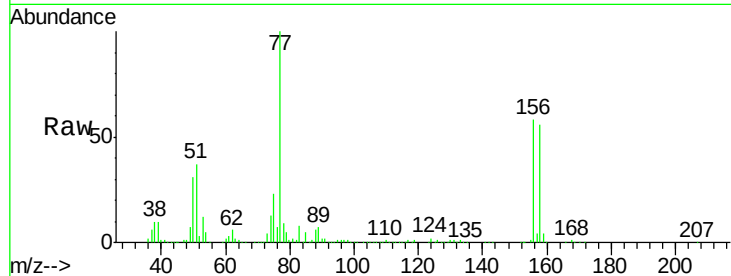
ClientSampled :

VSTDIC100

Tot Ion:	156	Resp:	478398
Ion Ratio	Lower	Upper	
156	100		
77	199.2	99.6	298.8
158	96.6	49.3	147.8

Manual Integrations
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#78

n-propylbenzene

Concen: 86.022 ug/l

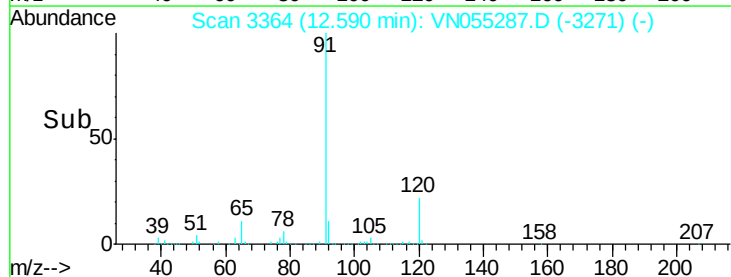
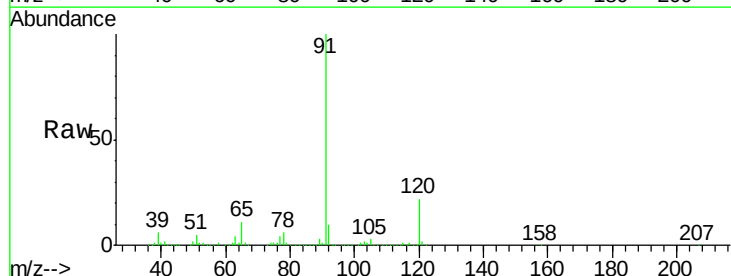
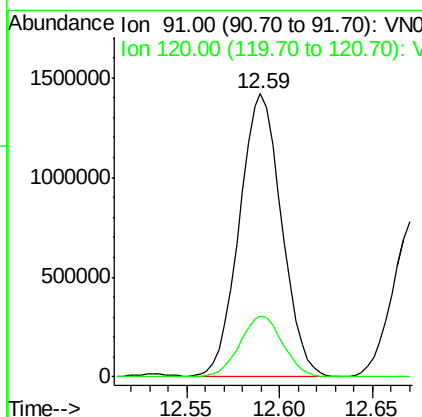
RT: 12.59 min Scan# 3364

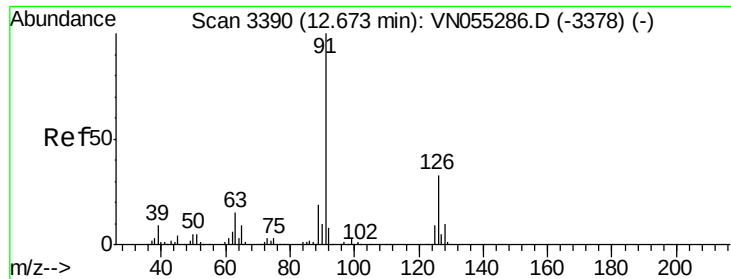
Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Tgt Ion:	91	Resp:	2234730
Ion Ratio	Lower	Upper	
91	100		
120	21.9	11.0	33.0





#79

2-Chlorotoluene

Concen: 82.108 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 1346832

Ion Ratio Lower Upper

91 100

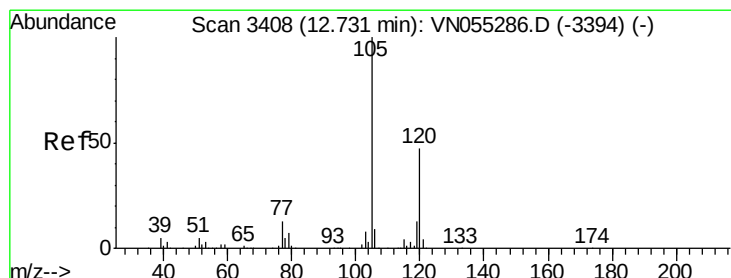
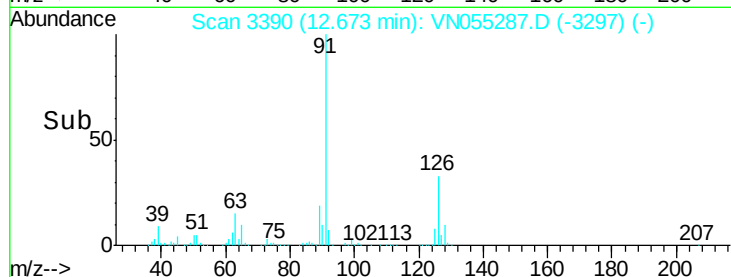
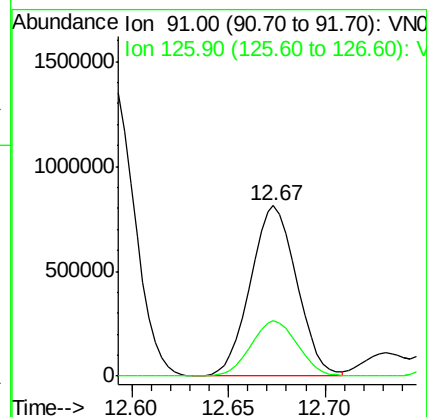
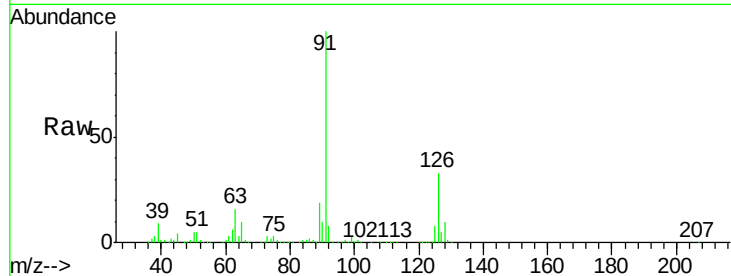
126 33.0 16.6 49.7

Manual Integrations

APPROVED

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#80

1,3,5-Trimethylbenzene

Concen: 83.899 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055287.D

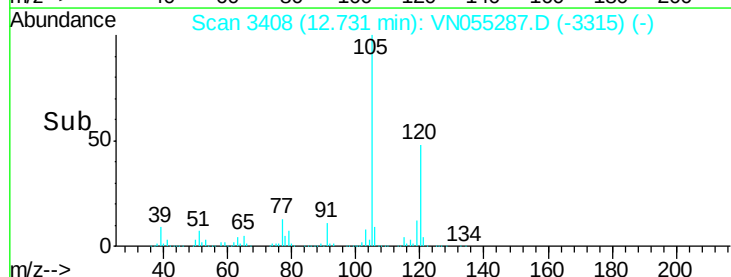
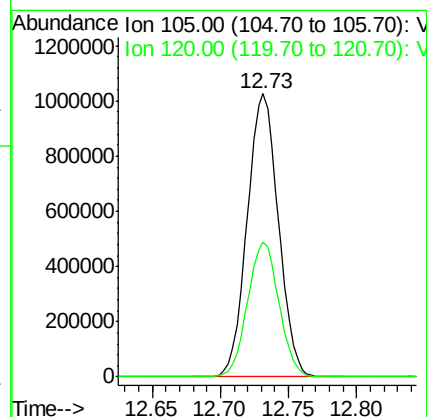
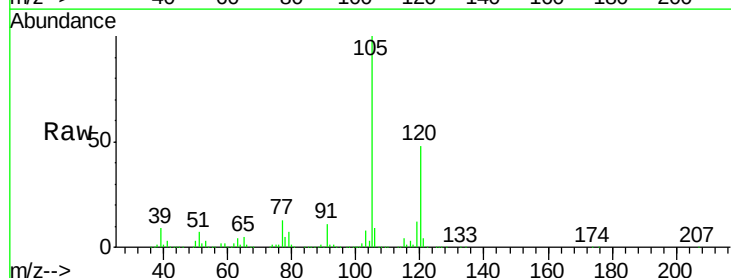
Acq: 29 Apr 2019 11:57

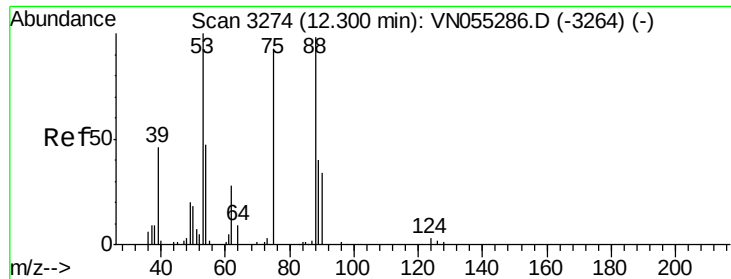
Tgt Ion: 105 Resp: 1624739

Ion Ratio Lower Upper

105 100

120 47.8 23.4 70.0





#81

trans-1,4-Dichloro-2-butene

Concen: 95.014 ug/l

RT: 12.30 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 75 Resp: 131736

Ion Ratio Lower Upper

75 100

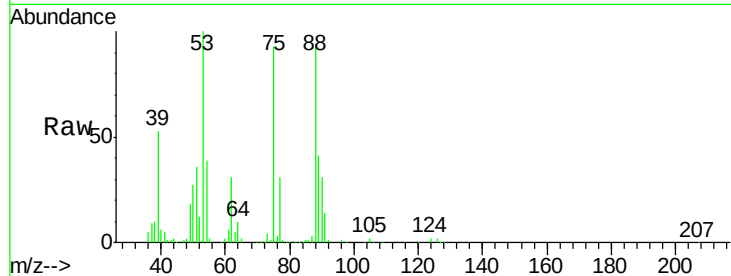
53 105.2 86.3 129.5

89 44.2 34.6 51.8

Manual Integrations
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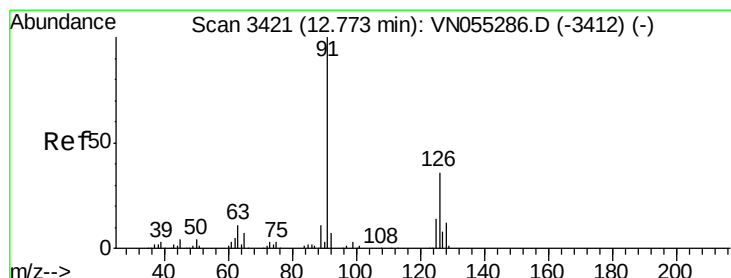
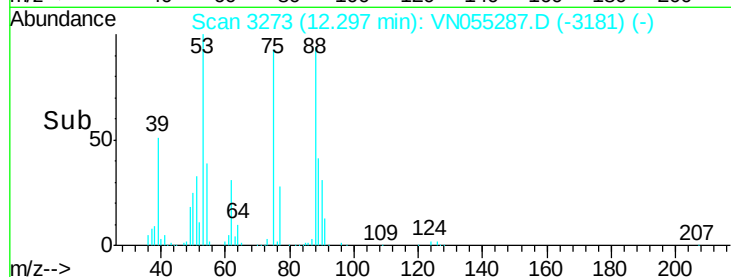
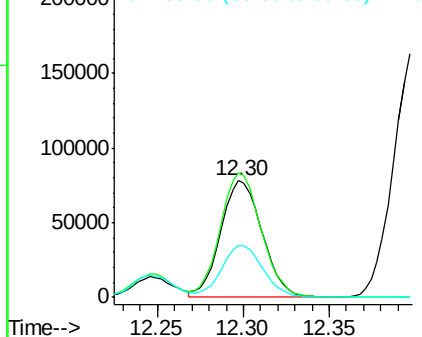
4/30/2019 11:59:10 AM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 88.415 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN055287.D

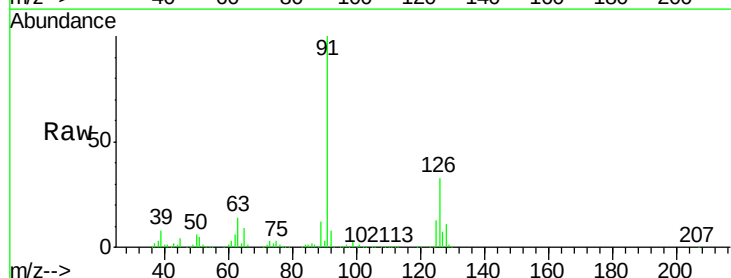
Acq: 29 Apr 2019 11:57

Tgt Ion: 91 Resp: 1328837

Ion Ratio Lower Upper

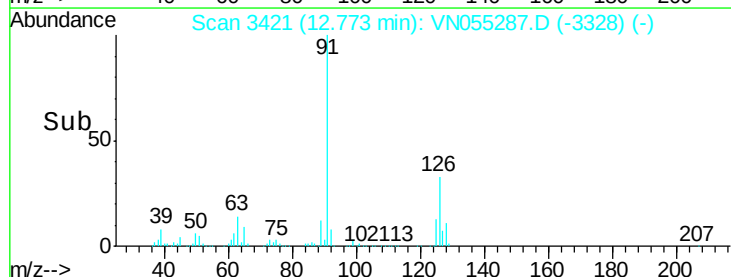
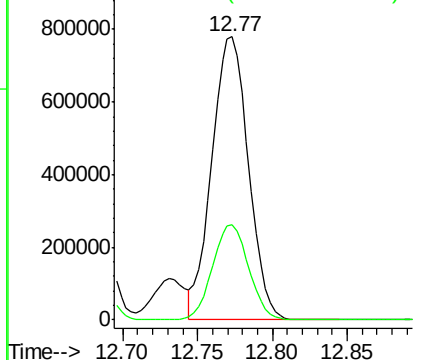
91 100

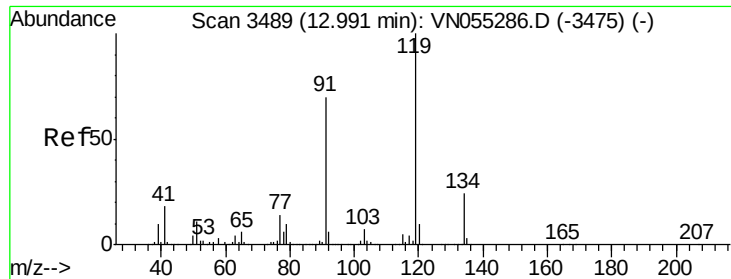
126 33.2 16.6 49.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 79.464 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:119 Resp: 1377468

Ion Ratio Lower Upper

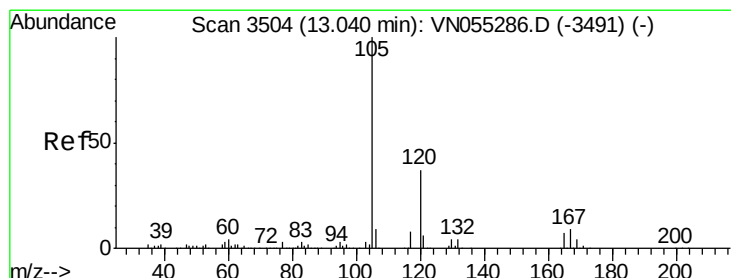
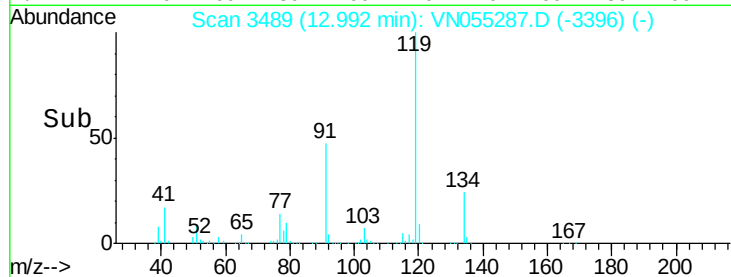
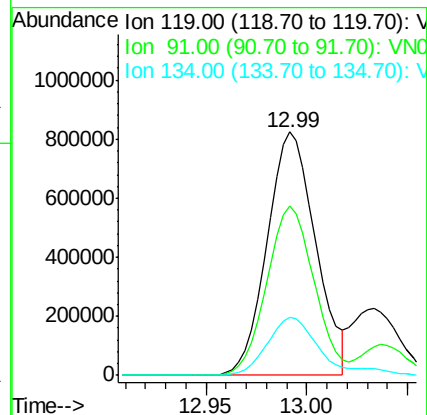
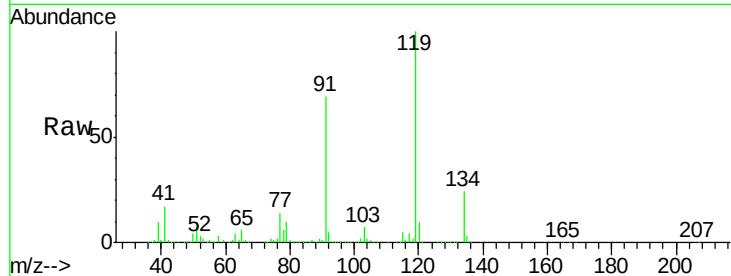
119 100

91 68.0 34.3 102.9

134 26.1 13.1 39.3

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 87.193 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN055287.D

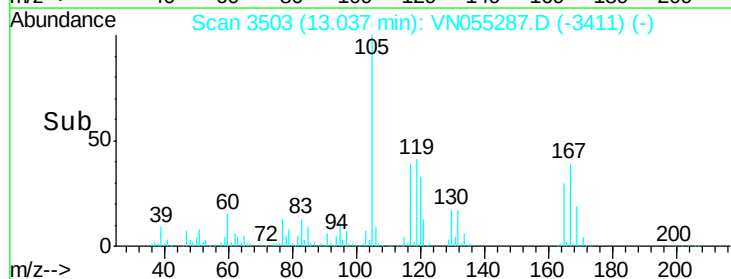
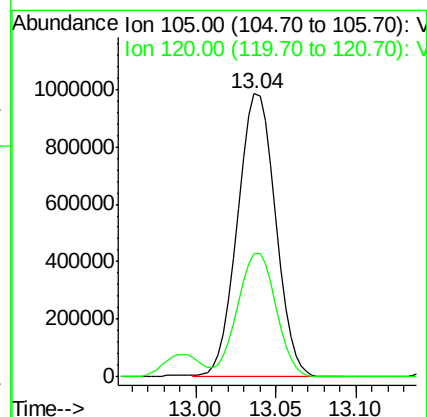
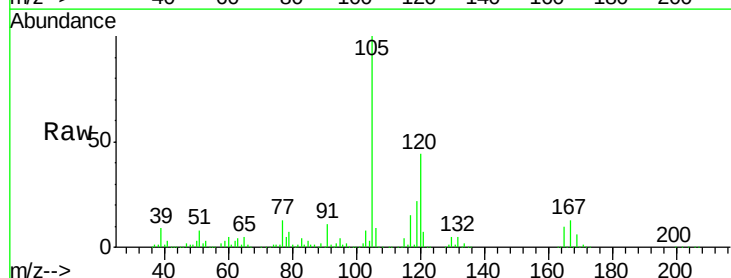
Acq: 29 Apr 2019 11:57

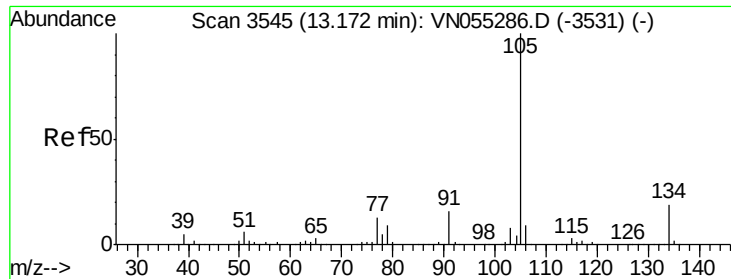
Tgt Ion:105 Resp: 1591351

Ion Ratio Lower Upper

105 100

120 44.2 22.1 66.5





#85

sec-Butylbenzene

Concen: 81.739 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 1792470

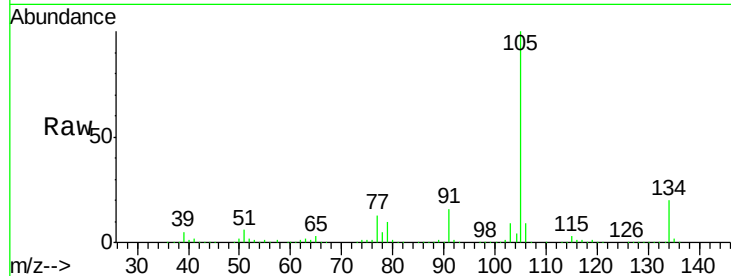
Ion Ratio Lower Upper

105 100

134 19.7 9.6 28.8

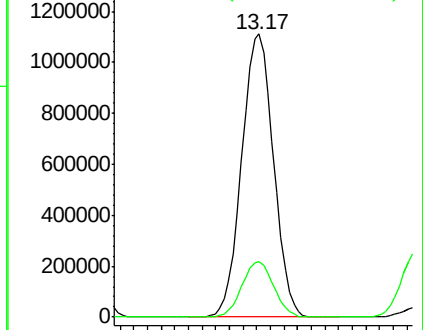
Manual Integrations
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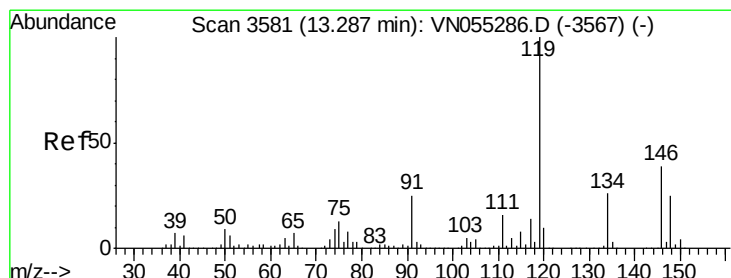
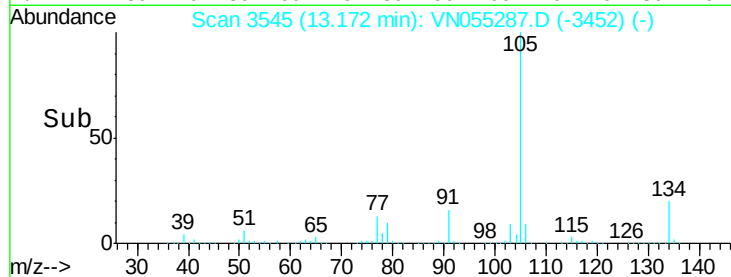


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: 87.665 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

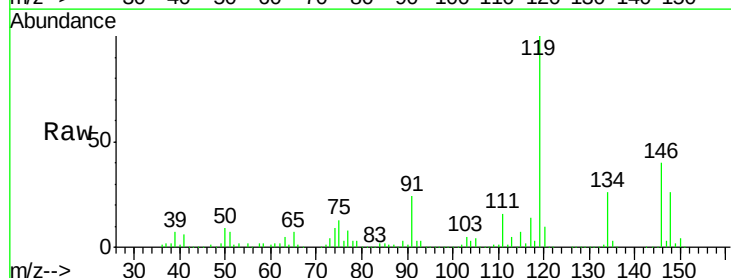
Tgt Ion:119 Resp: 1581422

Ion Ratio Lower Upper

119 100

134 26.0 13.0 38.9

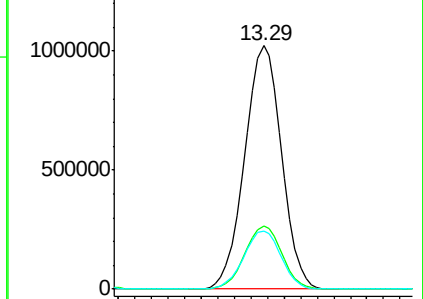
91 24.3 12.2 36.6



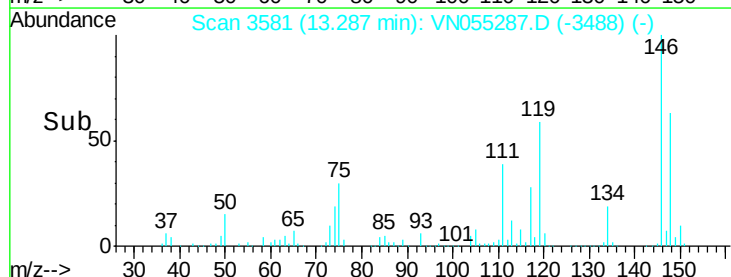
Abundance Ion 119.00 (118.70 to 119.70): V

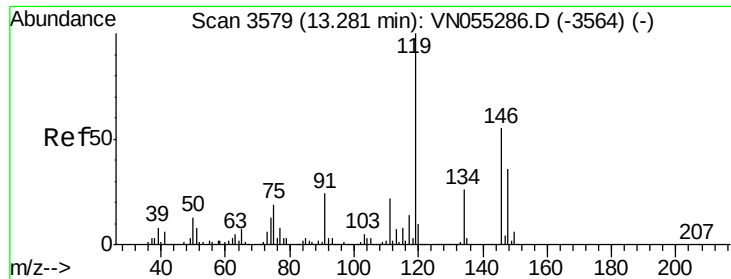
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



Time-->





#87

1,3-Dichlorobenzene

Concen: 91.522 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

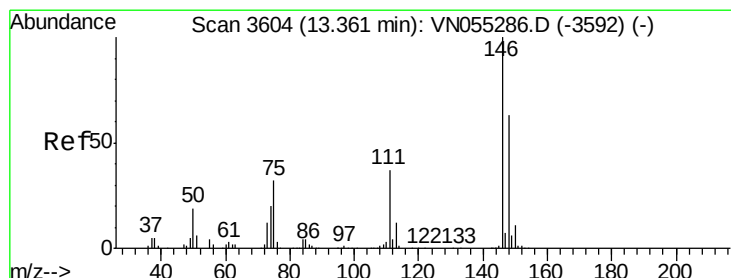
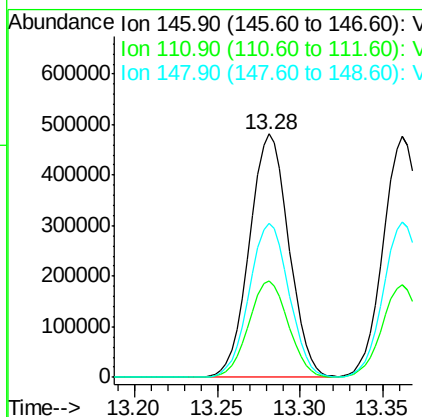
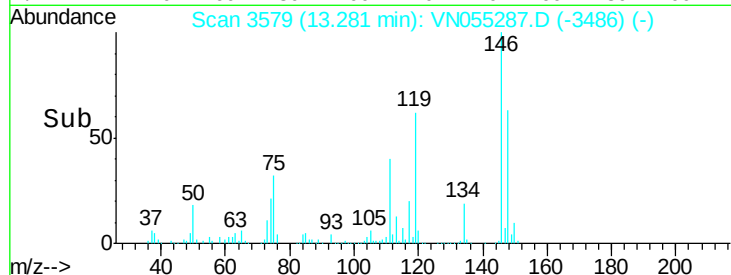
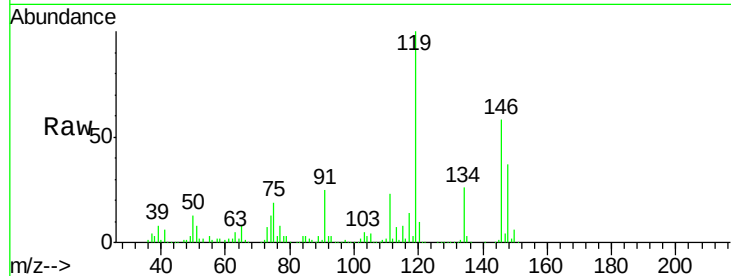
ClientSampleId :

VSTDIC100

Tot Ion:	146	Resp:	795763
Ion Ratio	Lower	Upper	
146	100		
111	39.7	20.3	60.8
148	63.8	32.5	97.5

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#88

1,4-Dichlorobenzene

Concen: 91.795 ug/l

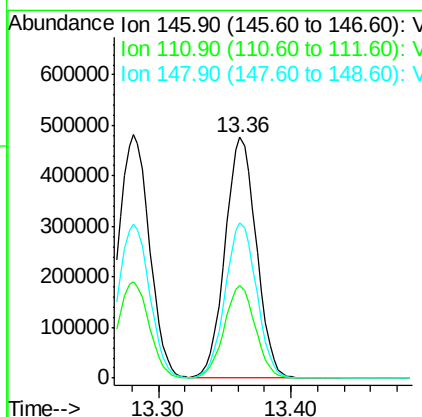
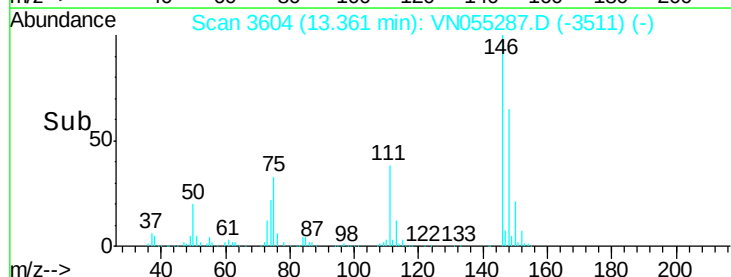
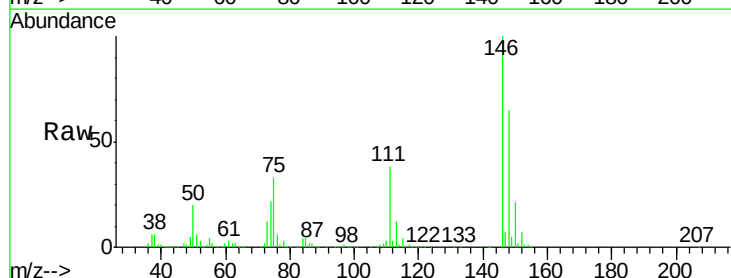
RT: 13.36 min Scan# 3604

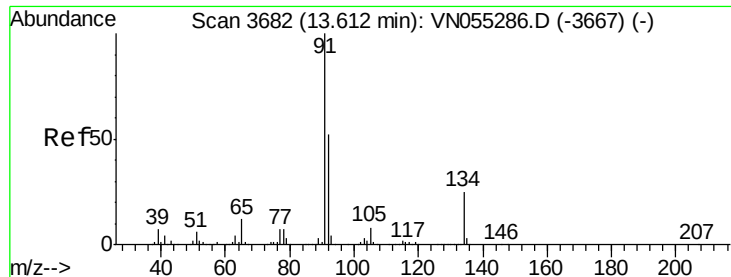
Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Tgt Ion:	146	Resp:	778231
Ion Ratio	Lower	Upper	
146	100		
111	38.4	19.5	58.5
148	64.8	32.5	97.4





#89

n-Butylbenzene

Concen: 101.278 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 1345599

Ion Ratio Lower Upper

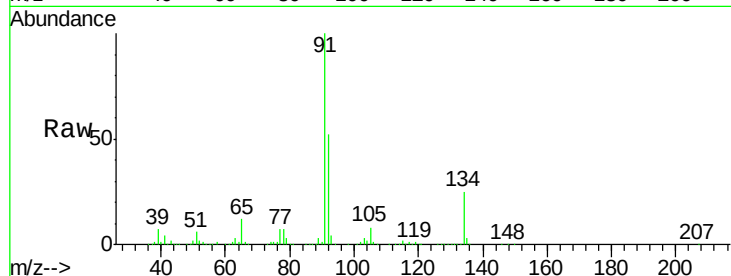
91 100

92 52.0 26.1 78.3

134 24.7 12.4 37.4

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Abundance Ion 91.00 (90.70 to 91.70): VN055287.D (-3667) (-)

Ion 92.00 (91.70 to 92.70): VN055287.D (-3667) (-)

Ion 134.00 (133.70 to 134.70): VN055287.D (-3667) (-)

1200000

1000000

800000

600000

400000

200000

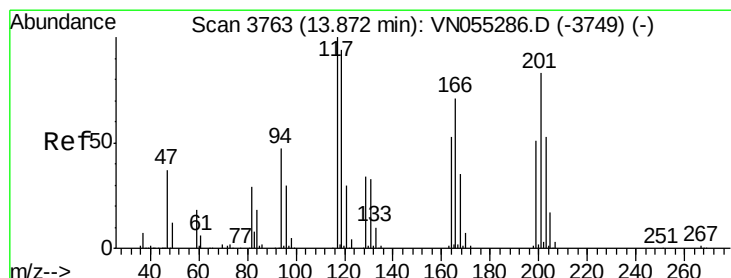
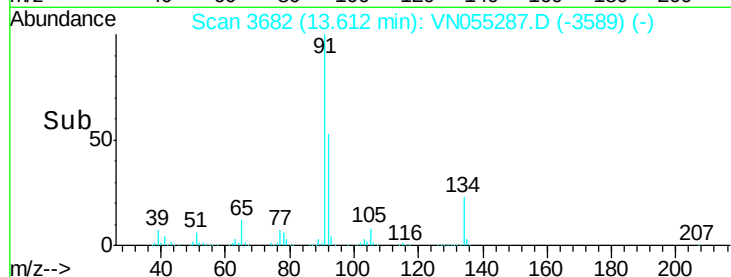
0

13.61

13.60

13.70

Time-->



#90

Hexachloroethane

Concen: 87.336 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. 0.00 min

Lab File: VN055287.D

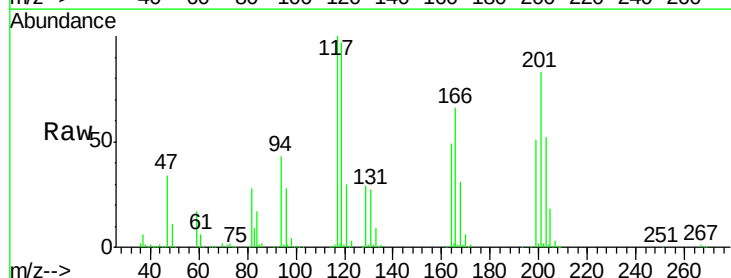
Acq: 29 Apr 2019 11:57

Tgt Ion: 117 Resp: 280986

Ion Ratio Lower Upper

117 100

201 85.4 41.9 125.8



Abundance Ion 116.80 (116.50 to 117.50): VN055287.D (-3749) (-)

Ion 200.70 (200.40 to 201.40): VN055287.D (-3749) (-)

200000

150000

100000

50000

0

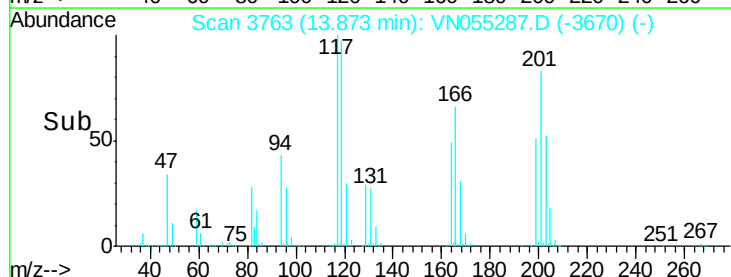
13.87

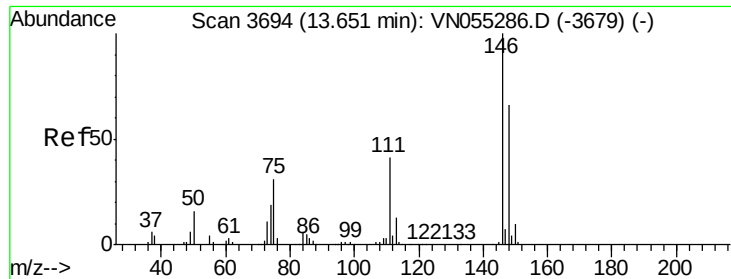
13.80

13.85

13.90

Time-->





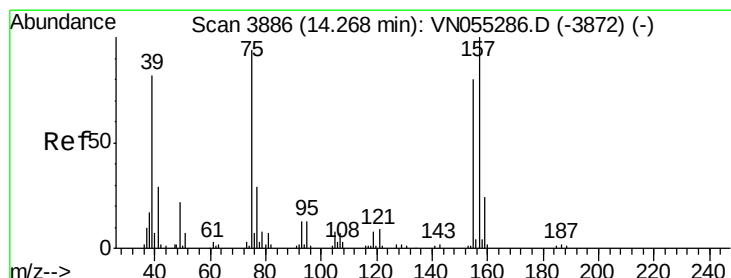
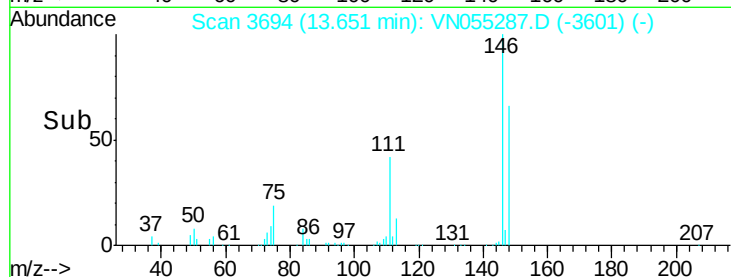
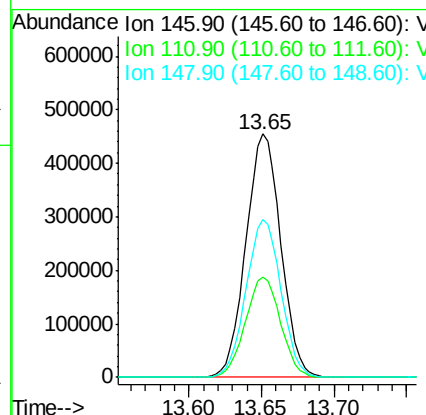
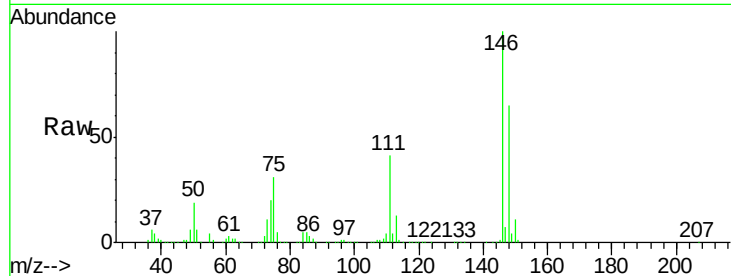
#91
 1,2-Dichlorobenzene
 Concen: 85.461 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.3	61.0
148	65.0	32.4	97.2

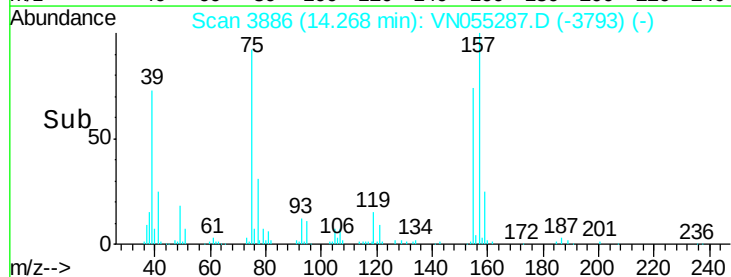
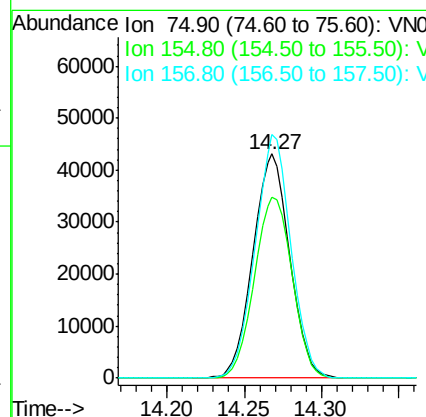
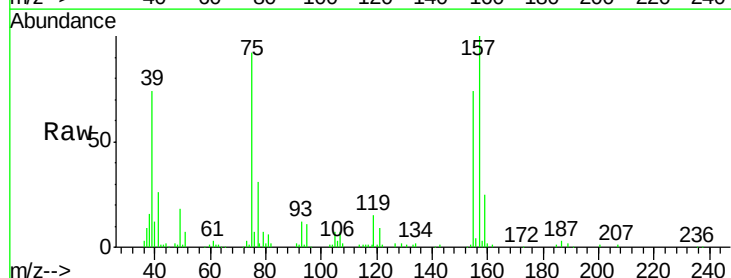
Manual Integrations
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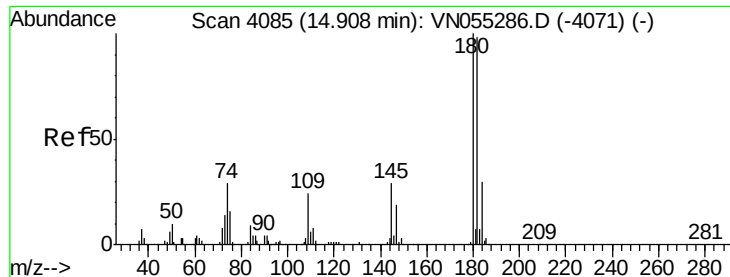
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 4/30/2019 11:59:10 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 91.333 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.6	41.5	124.6
157	105.3	54.0	162.2





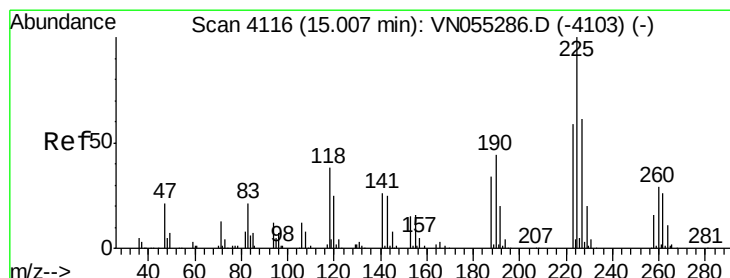
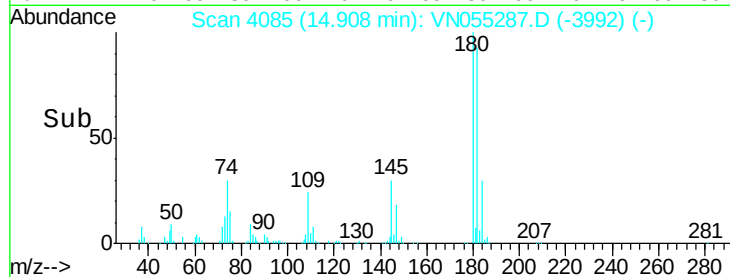
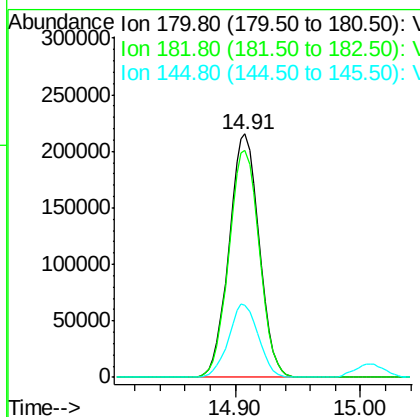
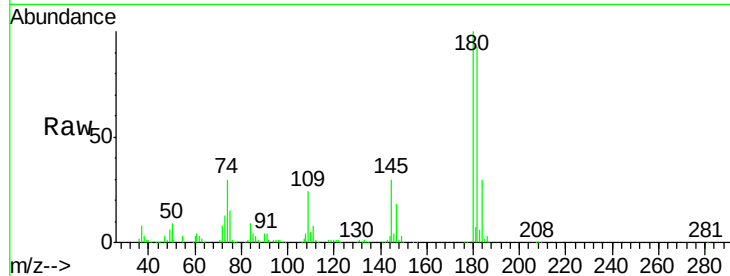
#93
 1,2,4-Trichlorobenzene
 Concen: 115.445 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100	357911		
182	94.6	48.3	144.9	
145	29.9	14.2	42.6	

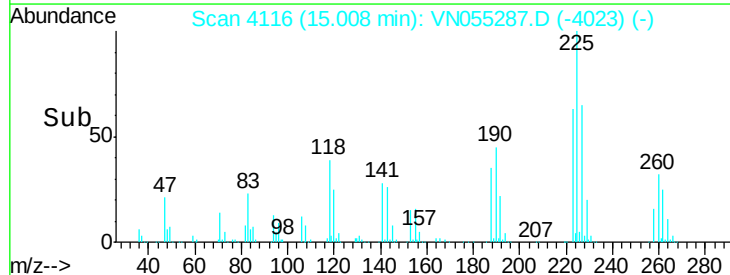
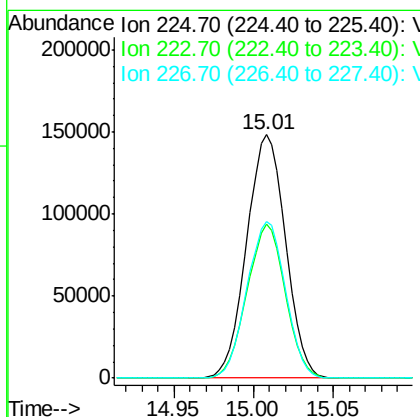
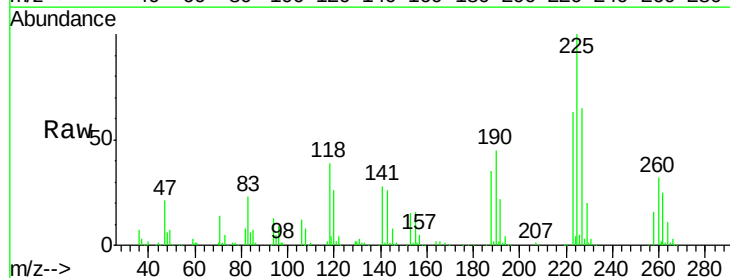
Manual Integrations
 APPROVED

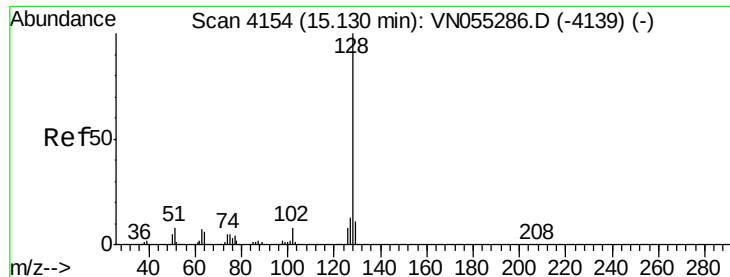
MMDadoda
 4/30/2019 11:59:10 AM



#94
 Hexachlorobutadiene
 Concen: 76.553 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055287.D
 Acq: 29 Apr 2019 11:57

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	246714		
223	62.4	30.3	90.8	
227	63.8	30.9	92.7	





#95

Naphthalene

Concen: 117.191 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Instrument :

MSVOA_N

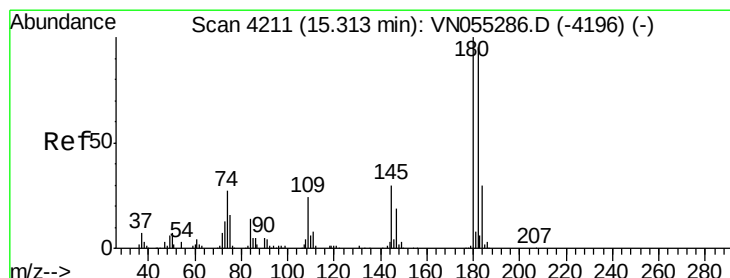
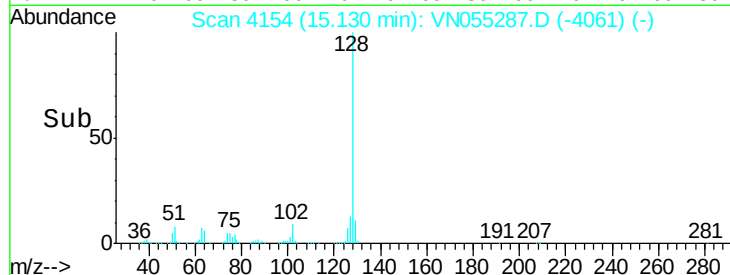
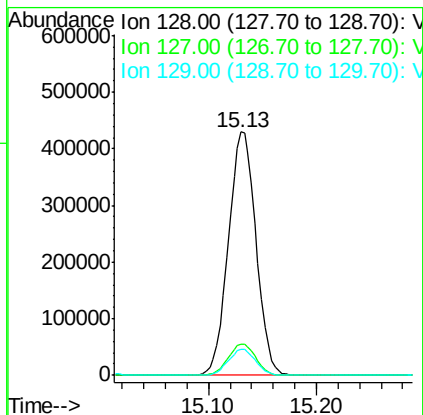
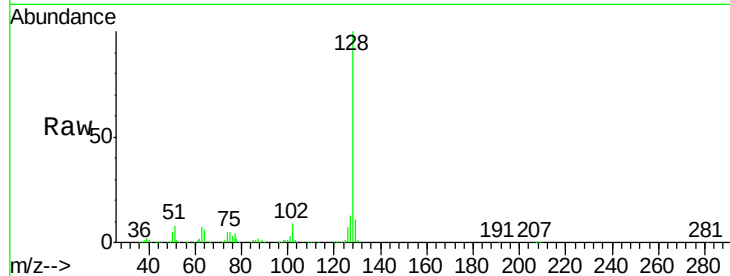
ClientSampleId :

VSTDIC100

Tot Ion:	128	Resp:	765165
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.7	16.1
129	10.7	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
4/30/2019 11:59:10 AM



#96

1,2,3-Trichlorobenzene

Concen: 108.064 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055287.D

Acq: 29 Apr 2019 11:57

Tgt Ion:	180	Resp:	347903
Ion Ratio	Lower	Upper	
180	100		
182	95.3	48.3	144.9
145	30.6	15.2	45.6

