

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061618\
 Data File : VN049287.D
 Acq On : 16 Jun 2018 4:17
 Operator : MD\SY
 Sample : VN0616WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0616WBSD02

Manual Integrations
 APPROVED

MMDadoda
 6/18/2018 3:16:18 PM

Quant Time: Jun 16 05:25:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1444472	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2209121	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1998778	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	878395	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	979885	51.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.30%	
35) Dibromofluoromethane	7.59	113	884638	49.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.00%	
50) Toluene-d8	10.09	98	3390406	49.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.64%	
62) 4-Bromofluorobenzene	12.40	95	1071003	47.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.20%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	314553	18.92	ug/l	99
3) Chloromethane	2.06	50	412548	19.22	ug/l	97
4) Vinyl Chloride	2.18	62	442473	19.39	ug/l	99
5) Bromomethane	2.57	94	244644	20.40	ug/l	97
6) Chloroethane	2.71	64	274354	20.17	ug/l	99
7) Trichlorofluoromethane	3.02	101	548255	19.26	ug/l	99
8) Diethyl Ether	3.41	74	192482	19.37	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.75	101	347748	19.26	ug/l	93
10) Methyl Iodide	3.95	142	384284	20.45	ug/l	91
11) Tert butyl alcohol	4.80	59	96668	85.97	ug/l #	89
12) 1,1-Dichloroethene	3.73	96	316824	19.13	ug/l	92
13) Acrolein	3.61	56	106877	90.63	ug/l	100
14) Allyl chloride	4.32	41	493115	18.86	ug/l	90
15) Acrylonitrile	4.99	53	538189	95.72	ug/l	98
16) Acetone	3.82	43	358282	77.02	ug/l #	89
17) Carbon Disulfide	4.05	76	942376	18.15	ug/l	100
18) Methyl Acetate	4.33	43	283738	20.00	ug/l	96
19) Methyl tert-butyl Ether	5.05	73	811994	19.23	ug/l	97
20) Methylene Chloride	4.55	84	374870	19.30	ug/l	90
21) trans-1,2-Dichloroethene	5.04	96	338061	19.28	ug/l	92
22) Diisopropyl ether	5.96	45	1062540	20.35	ug/l	98
23) Vinyl Acetate	5.90	43	3245154	95.32	ug/l	96
24) 1,1-Dichloroethane	5.85	63	655156	19.60	ug/l	99
25) 2-Butanone	6.84	43	541821	86.74	ug/l	95
26) 2,2-Dichloropropane	6.83	77	421963	15.63	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	378375	19.41	ug/l	92
28) Bromochloromethane	7.19	49	299764	20.23	ug/l	85
29) Tetrahydrofuran	7.22	42	367694	91.45	ug/l	94
30) Chloroform	7.37	83	661412	19.88	ug/l	100
31) Cyclohexane	7.65	56	553179	19.41	ug/l	90
32) 1,1,1-Trichloroethane	7.57	97	561085	19.77	ug/l	97
36) 1,1-Dichloropropene	7.80	75	477509	18.86	ug/l	95
37) Ethyl Acetate	6.93	43	267289	19.42	ug/l	98
38) Carbon Tetrachloride	7.77	117	510713	19.48	ug/l	99

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 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0616WBSD02

Manual Integrations
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Quant Time: Jun 16 05:25:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

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

39) Methylcyclohexane	9.08	83	489033	17.99	ug/l	97
40) Benzene	8.04	78	1502084	19.35	ug/l	99
41) Methacrylonitrile	7.18	41	134845	18.12	ug/l #	100
42) 1,2-Dichloroethane	8.13	62	464081	19.35	ug/l	96
43) Isopropyl Acetate	8.17	43	546124	20.77	ug/l	99
44) Trichloroethene	8.84	130	388934	18.97	ug/l	96
45) 1,2-Dichloropropane	9.12	63	391396	19.26	ug/l	99
46) Dibromomethane	9.21	93	228326	19.37	ug/l	93
47) Bromodichloromethane	9.41	83	501458	19.36	ug/l	96
48) Methyl methacrylate	9.20	41	233583	18.86	ug/l	88
49) 1,4-Dioxane	9.20	88	60025	351.18	ug/l	94
51) 4-Methyl-2-Pentanone	9.99	43	1284243	93.17	ug/l	95
52) Toluene	10.16	92	928858	20.39	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	446362	18.02	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	531850	18.18	ug/l	90
55) 1,1,2-Trichloroethane	10.56	97	323225	19.03	ug/l	97
56) Ethyl methacrylate	10.43	69	361875	18.47	ug/l #	86
57) 1,3-Dichloropropane	10.71	76	534944	19.01	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	511008	83.10	ug/l	94
59) 2-Hexanone	10.75	43	778751	87.64	ug/l	94
60) Dibromochloromethane	10.90	129	366119	19.31	ug/l	99
61) 1,2-Dibromoethane	11.01	107	291920	18.49	ug/l	97
64) Tetrachloroethene	10.63	164	409174	19.98	ug/l	98
65) Chlorobenzene	11.44	112	993807	19.30	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	371067	19.15	ug/l	100
67) Ethyl Benzene	11.51	91	1665915	19.51	ug/l	97
68) m/p-Xylenes	11.63	106	1283233	40.04	ug/l	96
69) o-Xylene	11.95	106	611239	19.80	ug/l	96
70) Styrene	11.97	104	971320	19.94	ug/l	98
71) Bromoform	12.13	173	232153	18.51	ug/l #	100
73) Isopropylbenzene	12.25	105	1655323	21.46	ug/l	98
74) N-amyl acetate	12.07	43	342308	18.12	ug/l	92
75) 1,1,2,2-Tetrachloroethane	12.51	83	370173	22.08	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	301236m	20.10	ug/l	
77) Bromobenzene	12.53	156	407470	20.00	ug/l	90
78) n-propylbenzene	12.59	91	1794776	21.19	ug/l	99
79) 2-Chlorotoluene	12.68	91	1126910	21.00	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	1313788	21.67	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	79105	16.68	ug/l	97
82) 4-Chlorotoluene	12.78	91	1070447	20.68	ug/l	97
83) tert-Butylbenzene	13.00	119	1106913	20.61	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	1317880	21.88	ug/l	99
85) sec-Butylbenzene	13.17	105	1466164	20.51	ug/l	99
86) p-Isopropyltoluene	13.29	119	1226176	20.53	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	651667	19.44	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	627448	18.89	ug/l	100
89) n-Butylbenzene	13.62	91	855334	18.34	ug/l	98
90) Hexachloroethane	13.88	117	259712	22.03	ug/l	92
91) 1,2-Dichlorobenzene	13.65	146	638683	19.43	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	45233	16.85	ug/l	83

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBSD02

Manual Integrations
APPROVED

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Quant Time: Jun 16 05:25:02 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	196486	16.55	ug/l	98
94) Hexachlorobutadiene	15.01	225	199142	19.03	ug/l	99
95) Naphthalene	15.14	128	382507	17.12	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	222827	17.54	ug/l	98

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

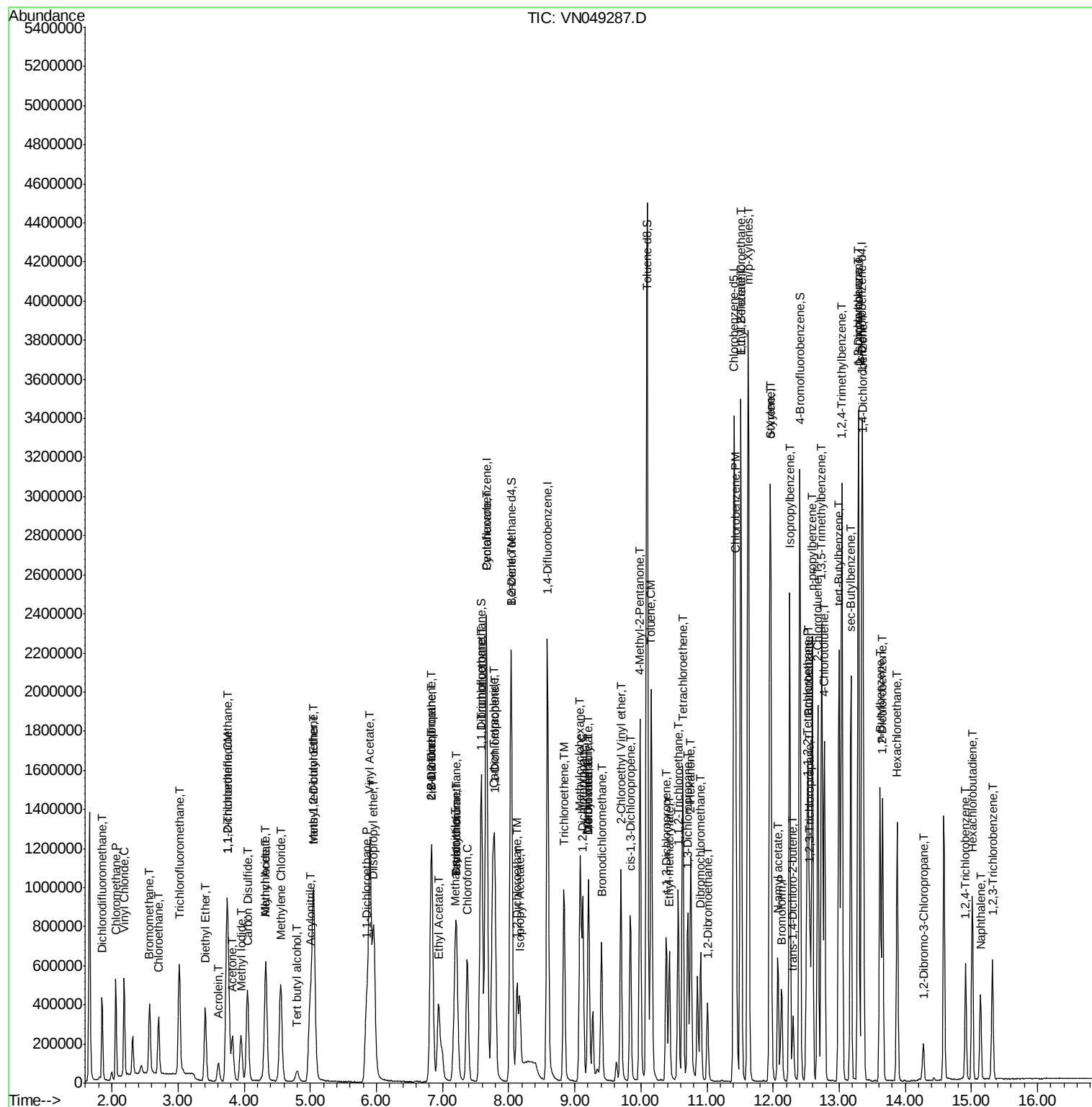
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 Data File : VN049287.D
 Acq On : 16 Jun 2018 4:17
 Operator : MD\SY
 Sample : VN0616WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

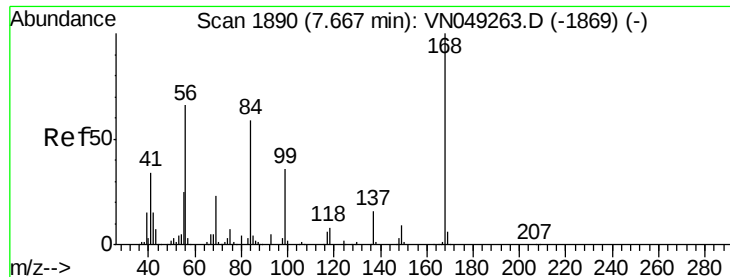
Instrument :
 MSVOA_N
 Client Sample Id :
 VN0616WBSD02

Manual Integrations
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MMDadoda
 6/18/2018 3:16:18 PM

Quant Time: Jun 16 05:25:02 2018
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

ClientSampleId :

VN0616WBSD02

Tot Ion:168 Resp: 1444472

Ion Ratio Lower Upper

168 100

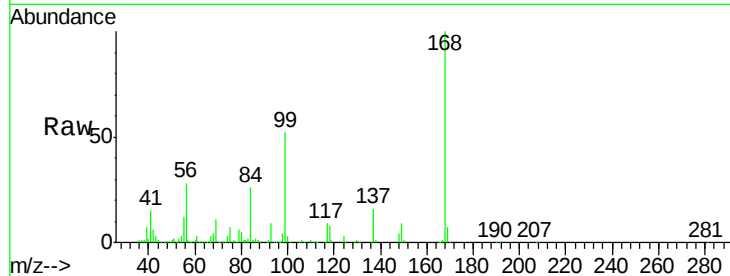
99 51.8 45.8 68.6

Manual Integrations

APPROVED

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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

600000

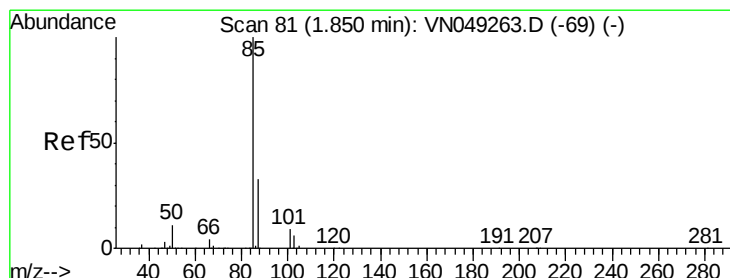
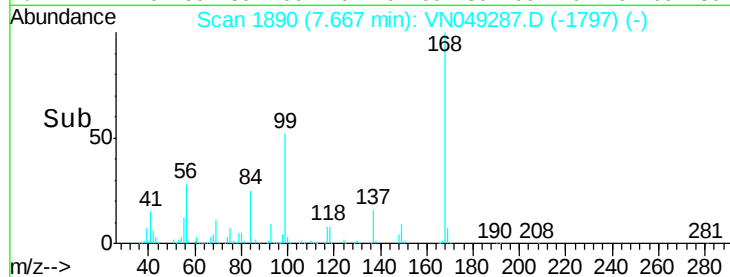
400000

200000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 18.92 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN049287.D

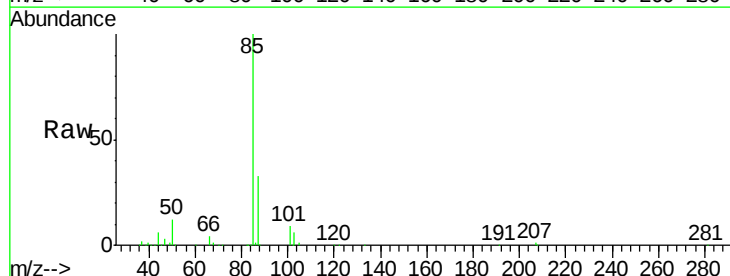
Acq: 16 Jun 2018 4:17

Tgt Ion: 85 Resp: 314553

Ion Ratio Lower Upper

85 100

87 32.6 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

250000

200000

150000

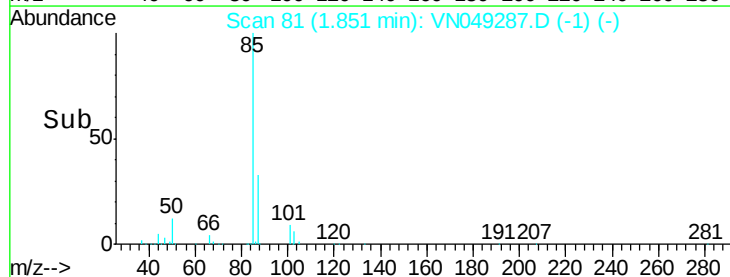
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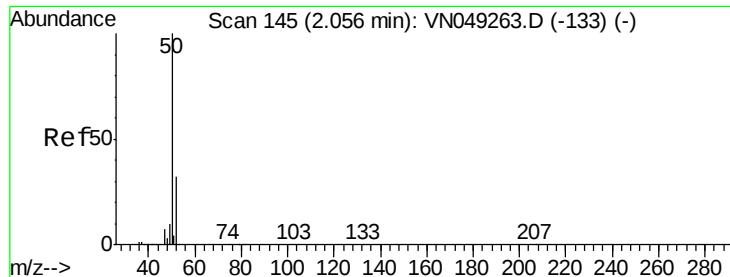
50000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 19.22 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

ClientSampleId :

VN0616WBSD02

Tot Ion: 50 Resp: 412548

Ion Ratio Lower Upper

50 100

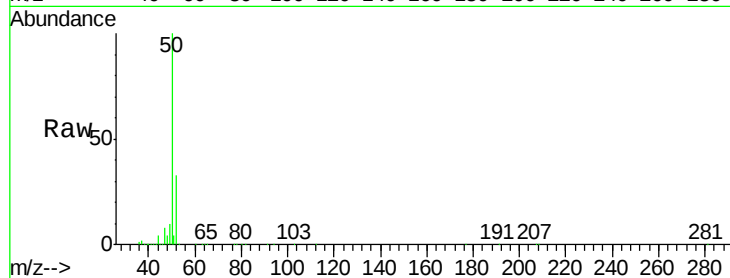
52 33.0 25.2 37.8

Manual Integrations

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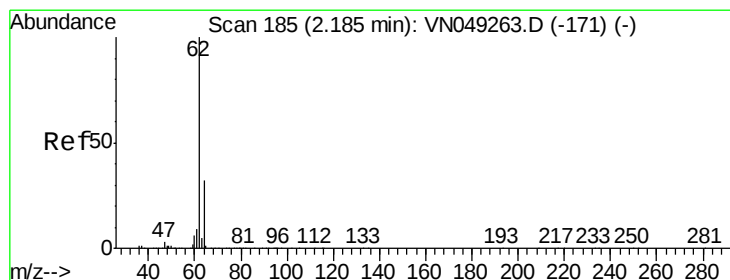
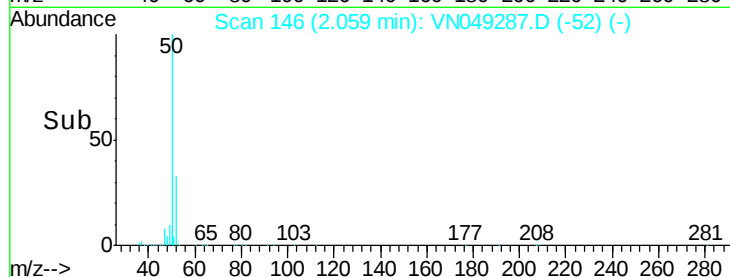
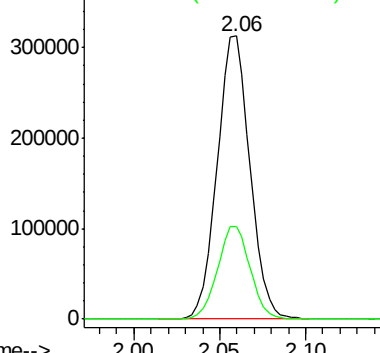
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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 19.39 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN049287.D

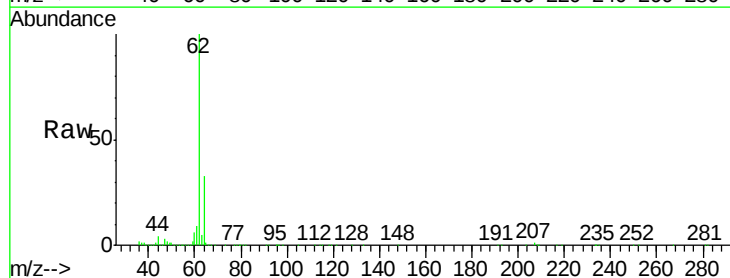
Acq: 16 Jun 2018 4:17

Tgt Ion: 62 Resp: 442473

Ion Ratio Lower Upper

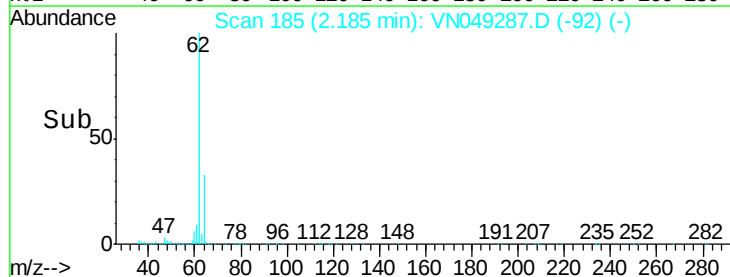
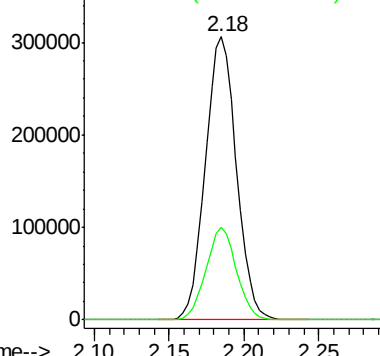
62 100

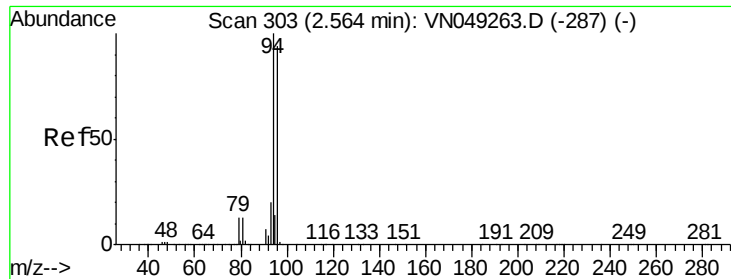
64 32.5 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 20.40 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

ClientSampleId :

VN0616WBSD02

Tot Ion: 94 Resp: 244644

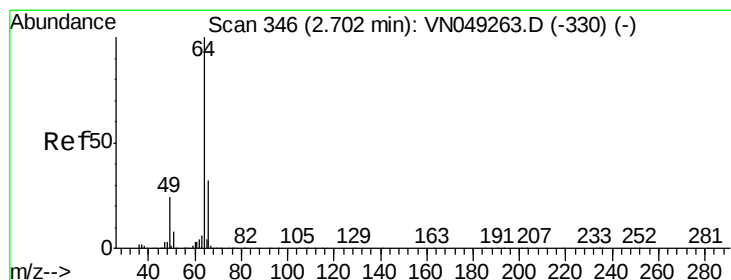
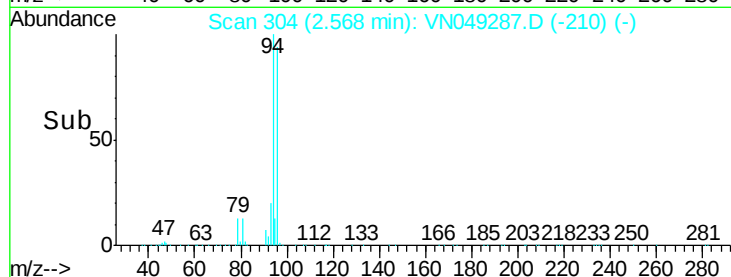
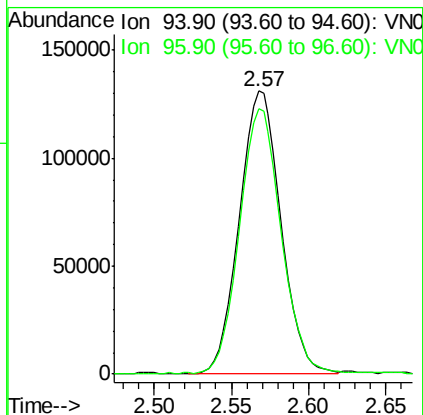
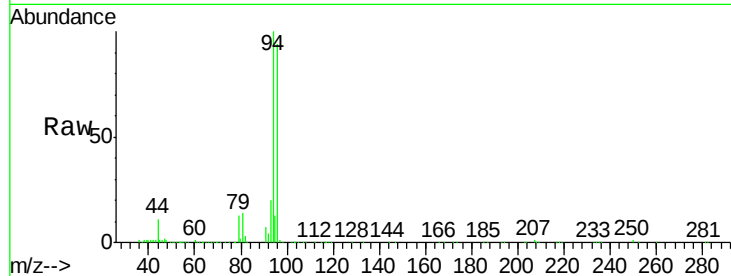
Ion Ratio Lower Upper

94 100

96 93.4 72.8 109.2

Manual Integrations
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#6

Chloroethane

Concen: 20.17 ug/l

RT: 2.71 min Scan# 347

Delta R.T. 0.00 min

Lab File: VN049287.D

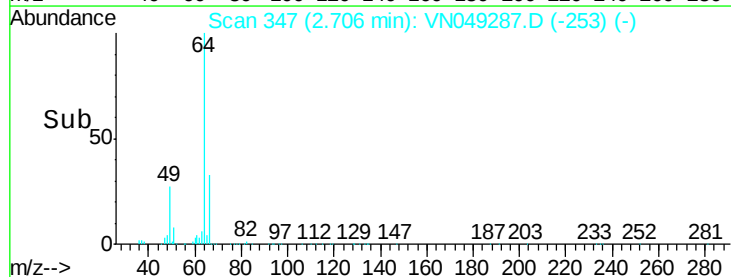
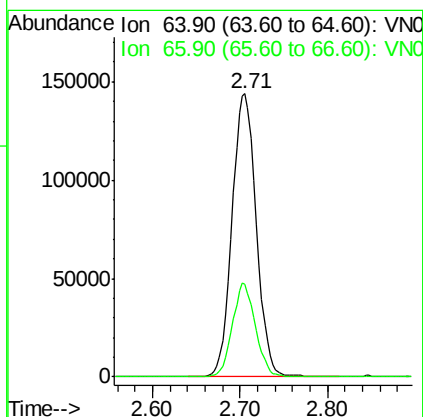
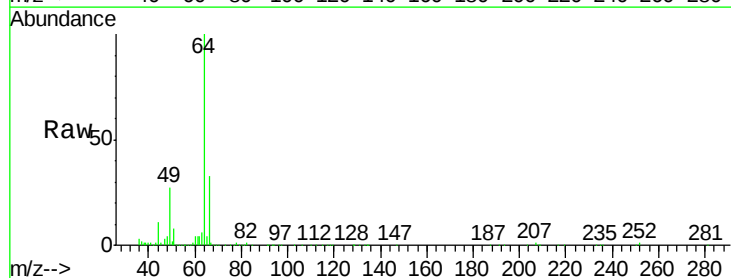
Acq: 16 Jun 2018 4:17

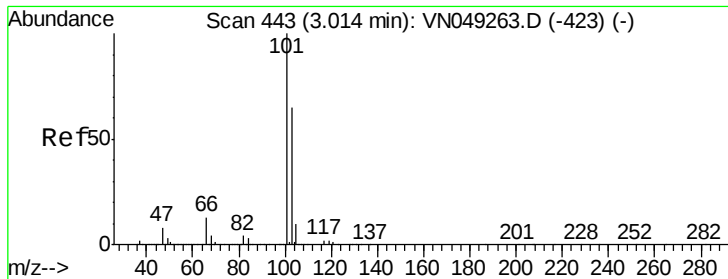
Tgt Ion: 64 Resp: 274354

Ion Ratio Lower Upper

64 100

66 32.5 25.6 38.4





#7

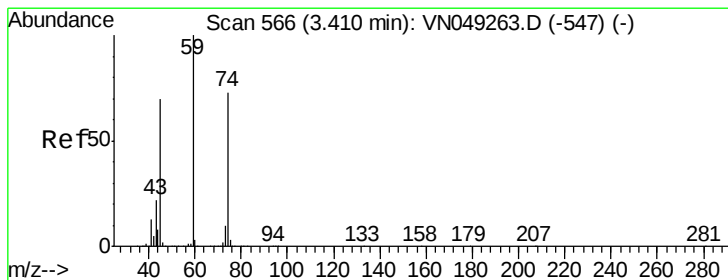
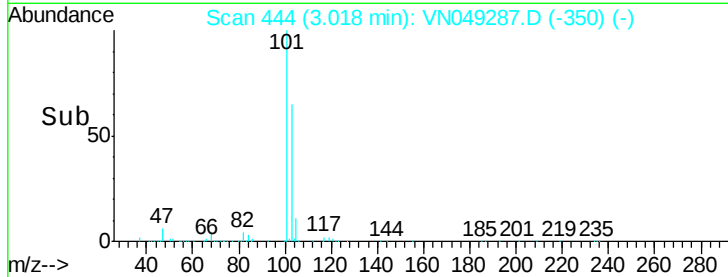
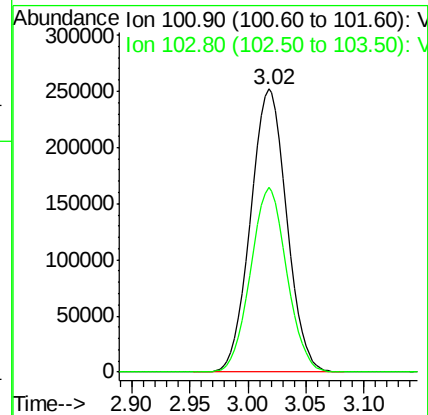
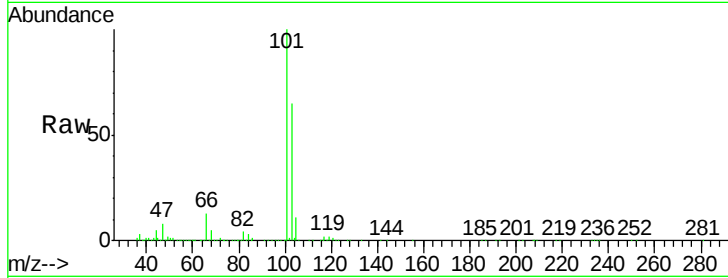
Trichlorofluoromethane
Concen: 19.26 ug/l
RT: 3.02 min Scan# 444
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.7	77.5

Manual Integrations
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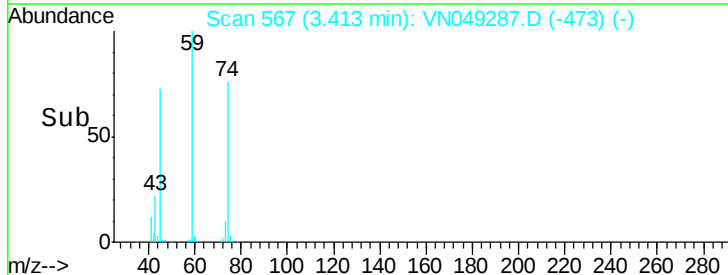
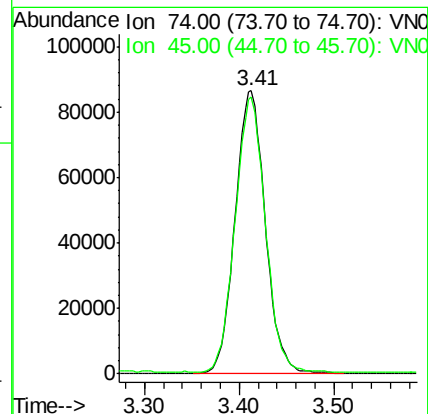
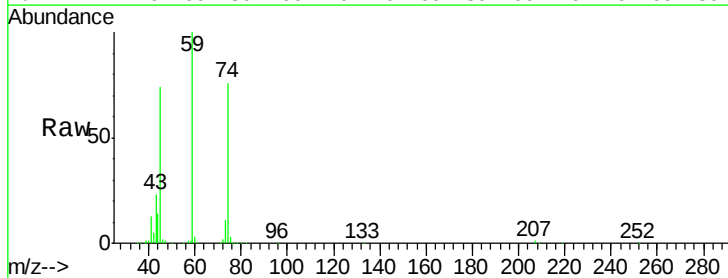
MMDadoda
6/18/2018 3:16:18 PM



#8

Diethyl Ether
Concen: 19.37 ug/l
RT: 3.41 min Scan# 567
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.6	51.9	155.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.26 ug/l

RT: 3.75 min Scan# 673

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

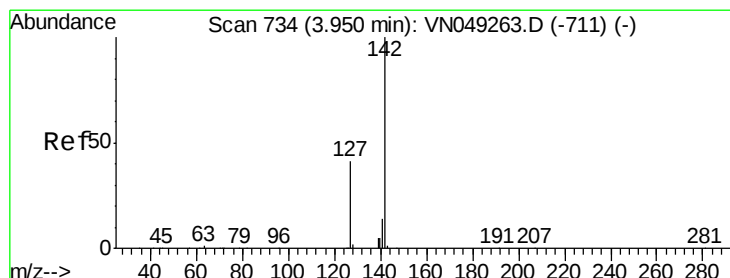
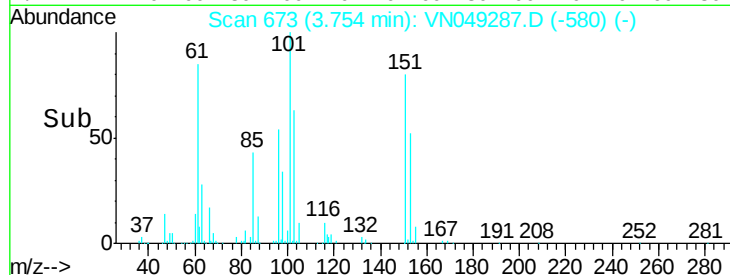
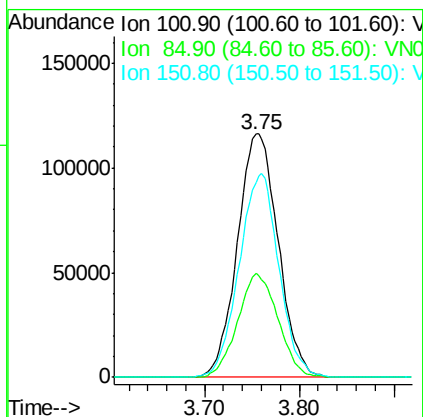
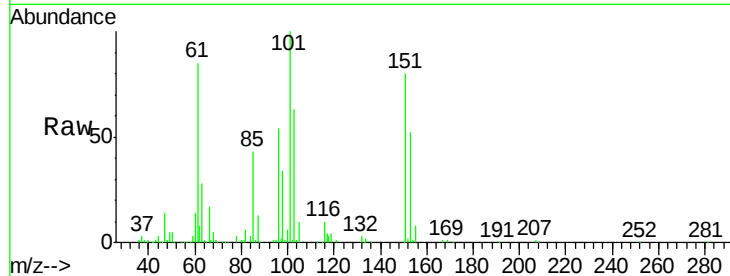
ClientSampleId :

VN0616WBSD02

Tot Ion:	101	Resp:	347748
Ion Ratio	Lower	Upper	
101	100		
85	42.3	37.6	56.4
151	82.0	61.1	91.7

Manual Integrations
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#10

Methyl Iodide

Concen: 20.45 ug/l

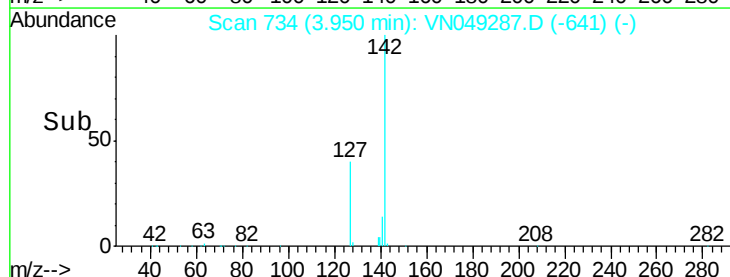
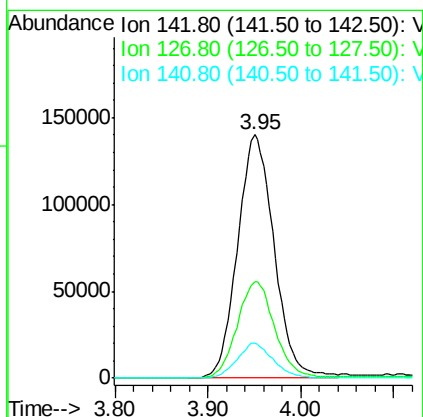
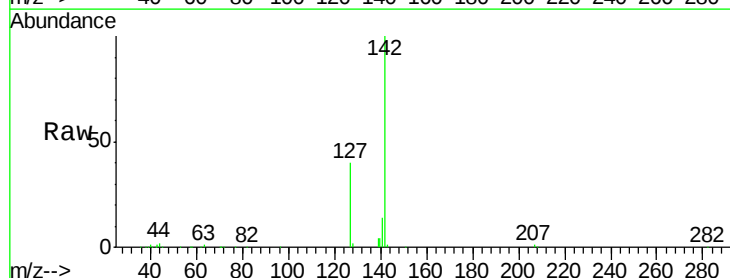
RT: 3.95 min Scan# 734

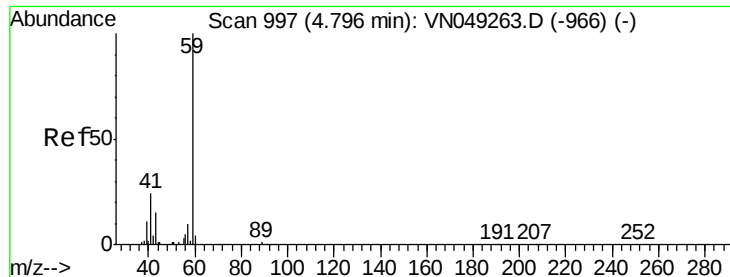
Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Tgt Ion:	142	Resp:	384284
Ion Ratio	Lower	Upper	
142	100		
127	40.5	38.2	57.4
141	14.2	11.9	17.9





#11

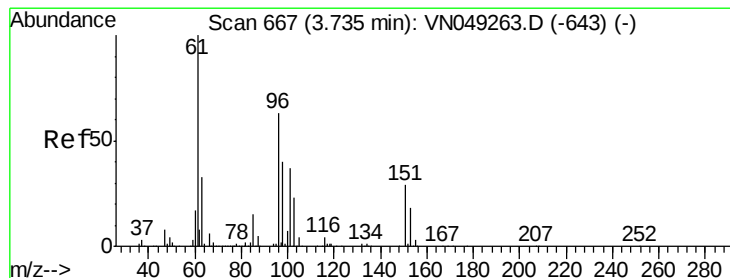
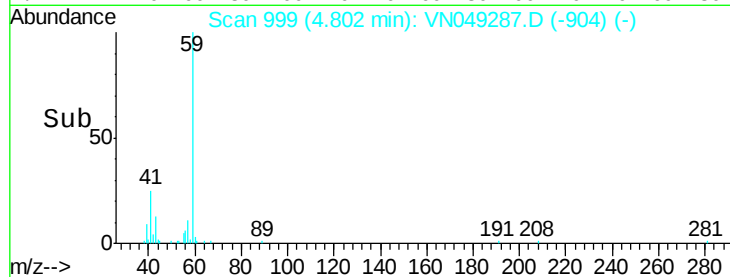
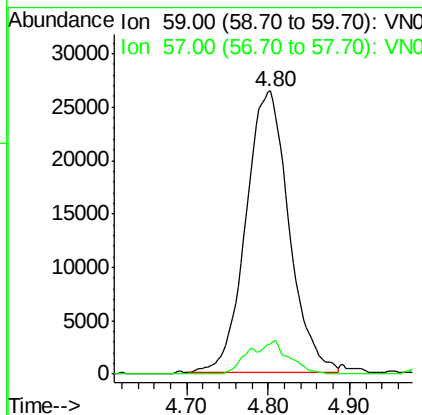
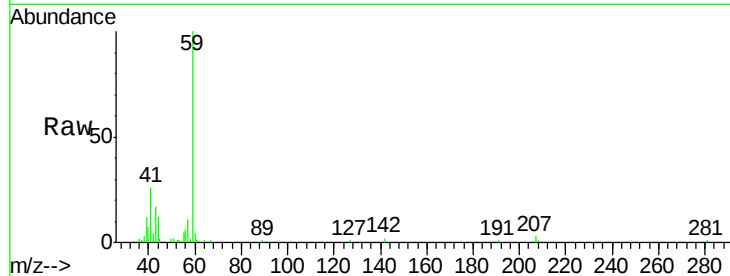
Tert butyl alcohol
Concen: 85.97 ug/l
RT: 4.80 min Scan# 999
Delta R.T. 0.01 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
59	100	96668		
57	7.1	9.0	13.6#	

Manual Integrations
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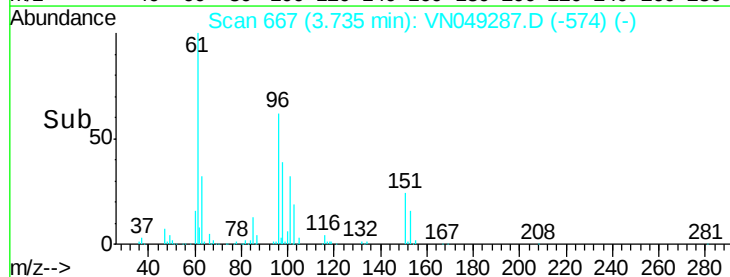
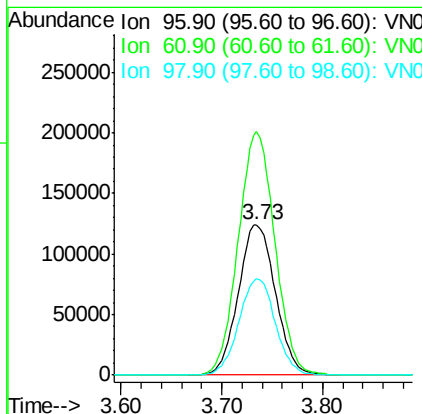
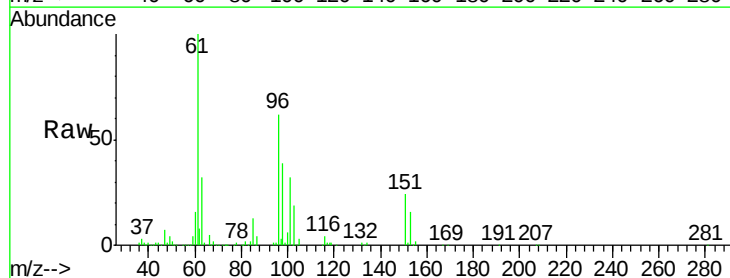
MMDadoda
6/18/2018 3:16:18 PM

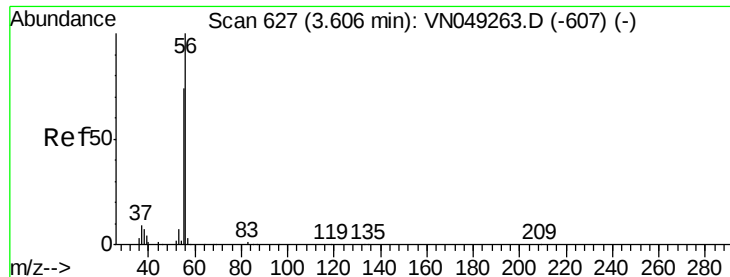


#12

1,1-Dichloroethene
Concen: 19.13 ug/l
RT: 3.73 min Scan# 667
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	316824		
61	161.7	141.0	211.4	
98	63.7	50.4	75.6	





#13

Acrolein

Concen: 90.63 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

ClientSampleId :

VN0616WBSD02

Tot Ion: 56 Resp: 106877

Ion Ratio Lower Upper

56 100

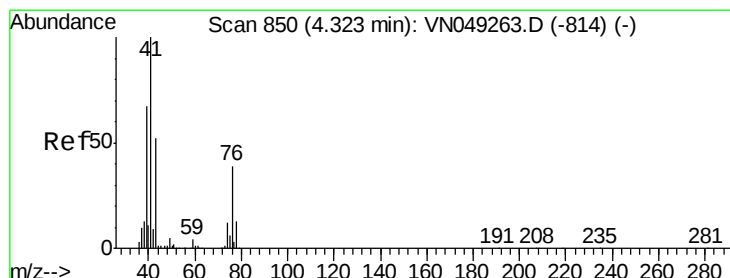
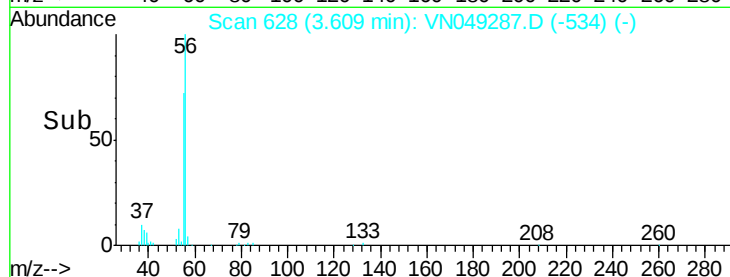
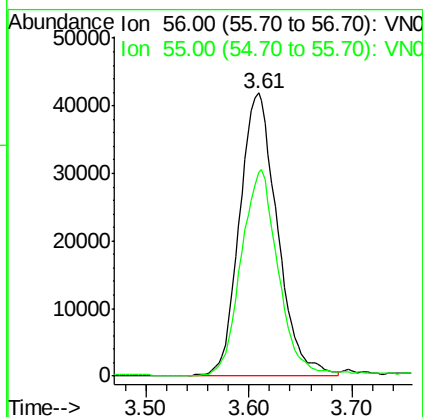
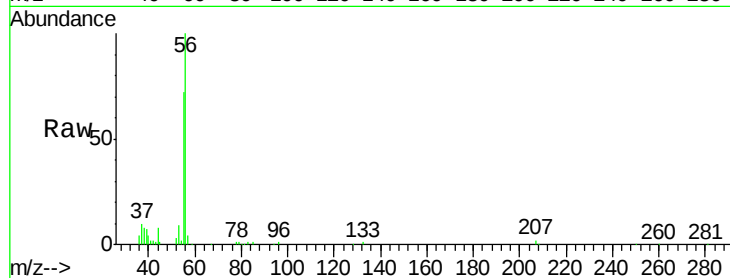
55 71.3 57.1 85.7

Manual Integrations

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MMDadoda

6/18/2018 3:16:18 PM



#14

Allyl chloride

Concen: 18.86 ug/l

RT: 4.32 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

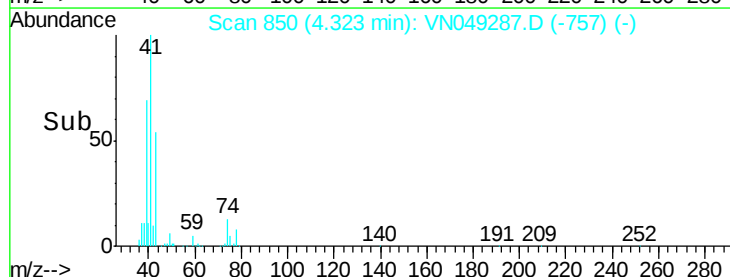
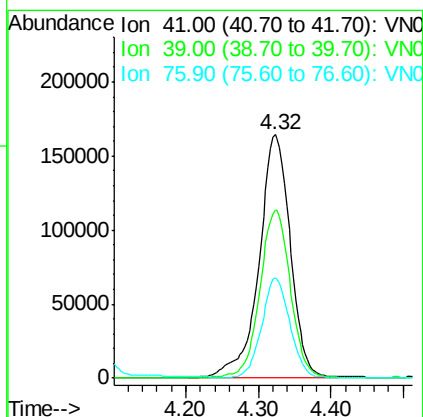
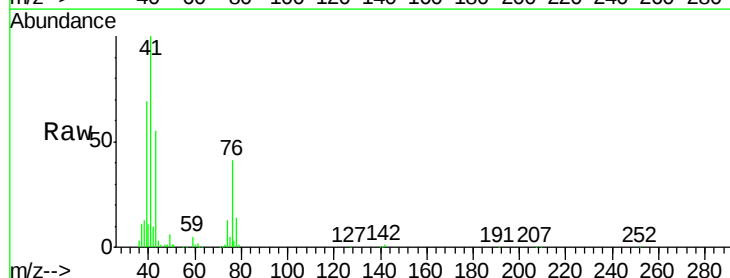
Tgt Ion: 41 Resp: 493115

Ion Ratio Lower Upper

41 100

39 67.3 62.5 93.7

76 36.4 27.1 40.7





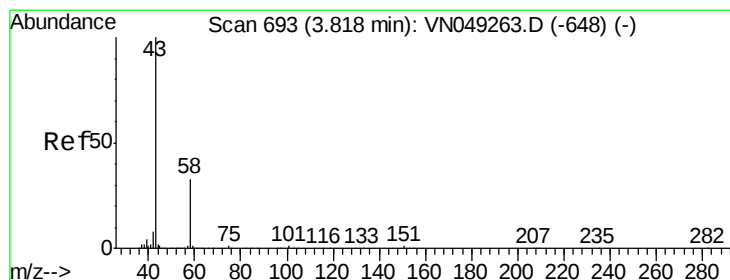
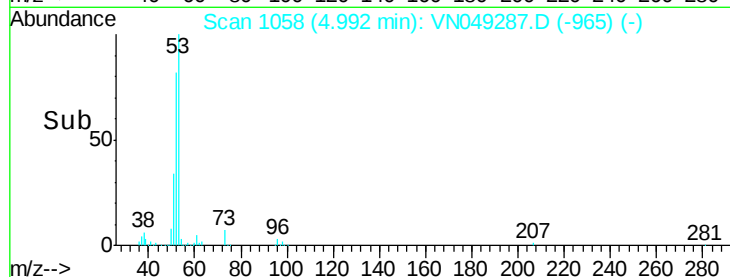
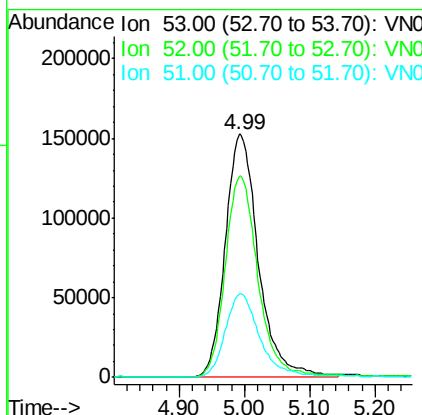
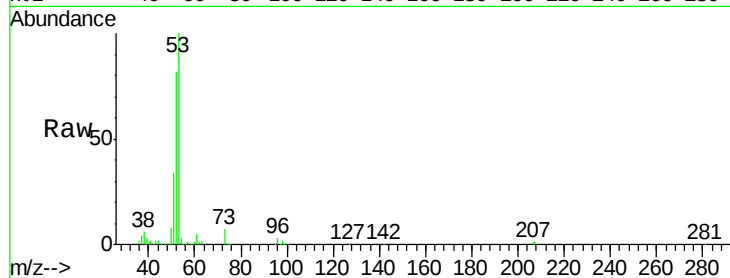
#15
 Acrylonitrile
 Concen: 95.72 ug/l
 RT: 4.99 min Scan# 1058
 Delta R.T. 0.00 min
 Lab File: VN049287.D
 Acq: 16 Jun 2018 4:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0616WBSD02

Tot Ion	Ion	Ratio	Lower	Upper
53	100			
52	81.5	66.6	100.0	
51	36.0	29.8	44.8	

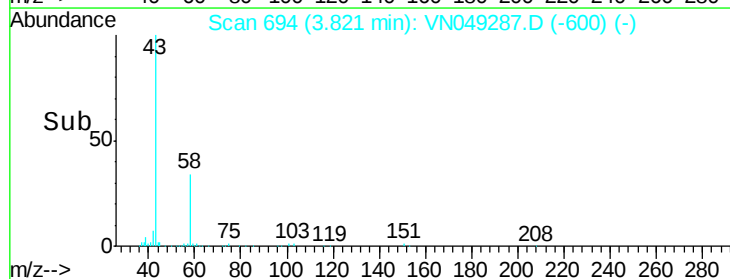
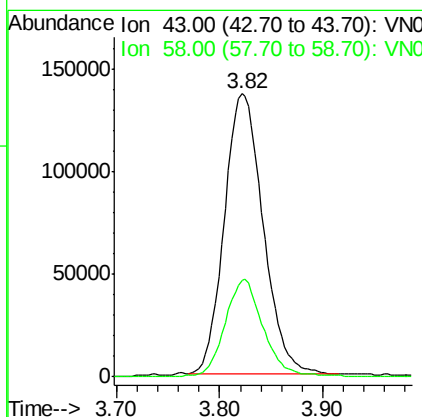
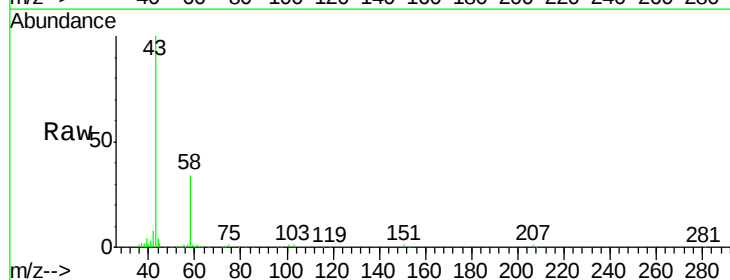
Manual Integrations
 APPROVED

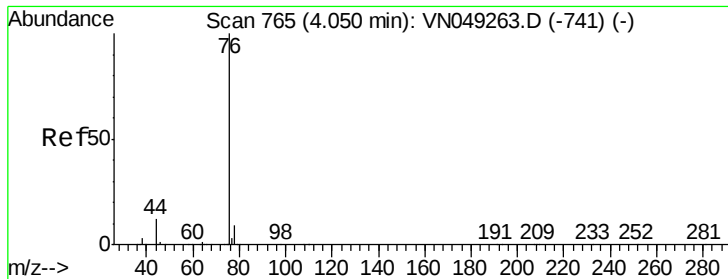
MMDadoda
 6/18/2018 3:16:18 PM



#16
 Acetone
 Concen: 77.02 ug/l
 RT: 3.82 min Scan# 694
 Delta R.T. 0.00 min
 Lab File: VN049287.D
 Acq: 16 Jun 2018 4:17

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
58	33.9	22.4	33.6	





#17

Carbon Disulfide

Concen: 18.15 ug/l

RT: 4.05 min Scan# 765

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Tot Ion: 76 Resp: 942376

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0

Instrument :

MSVOA_N

ClientSampleId :

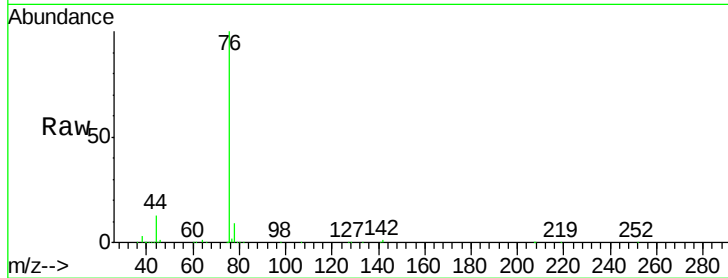
VN0616WBSD02

Manual Integrations

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6/18/2018 3:16:18 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

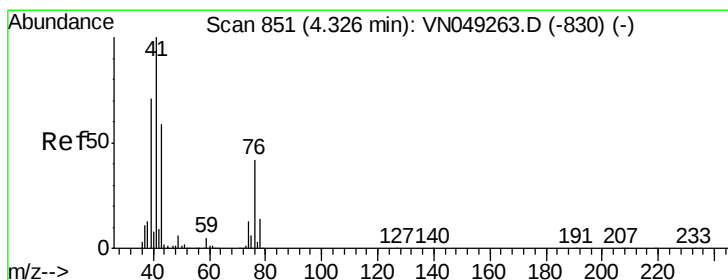
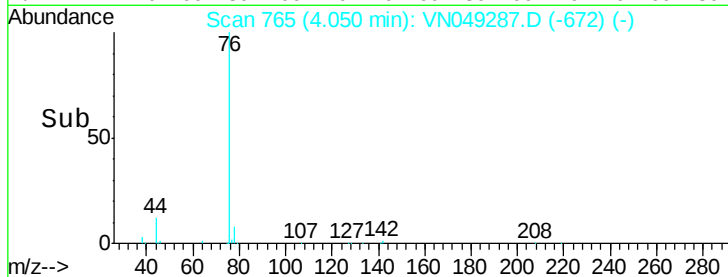
300000

200000

100000

0

Time-->



#18

Methyl Acetate

Concen: 20.00 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN049287.D

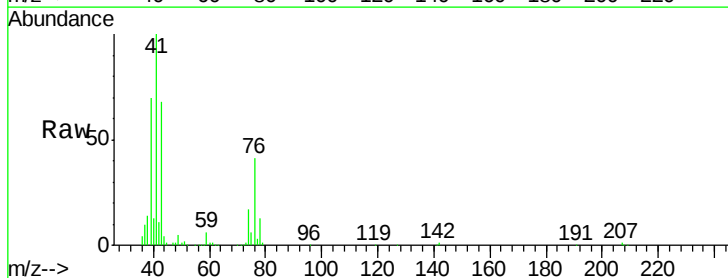
Acq: 16 Jun 2018 4:17

Tgt Ion: 43 Resp: 283738

Ion Ratio Lower Upper

43 100

74 23.8 17.4 26.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

100000

80000

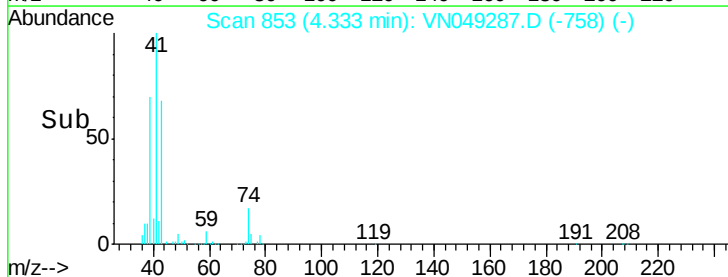
60000

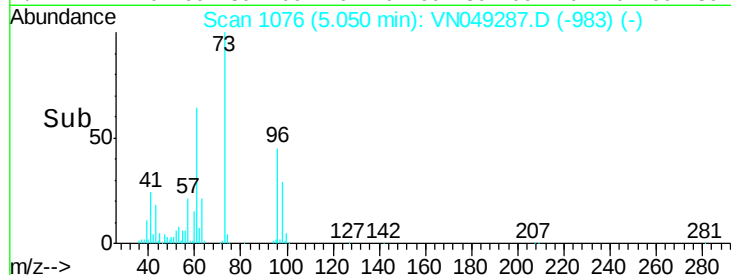
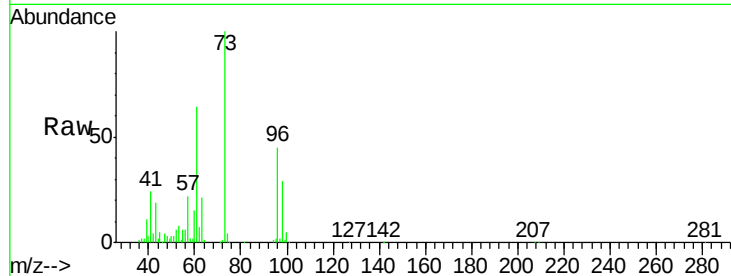
40000

20000

0

Time-->





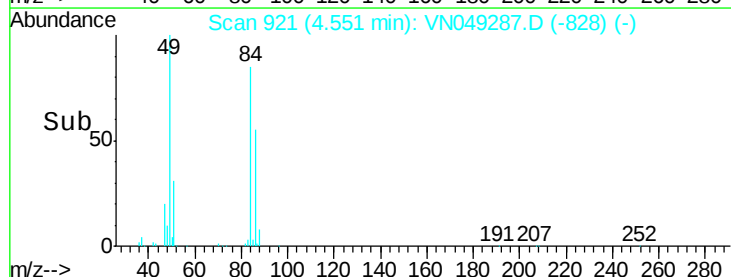
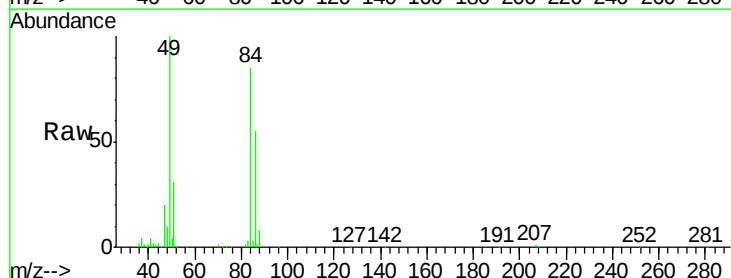
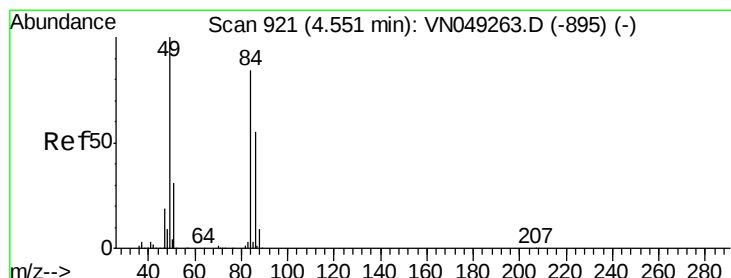
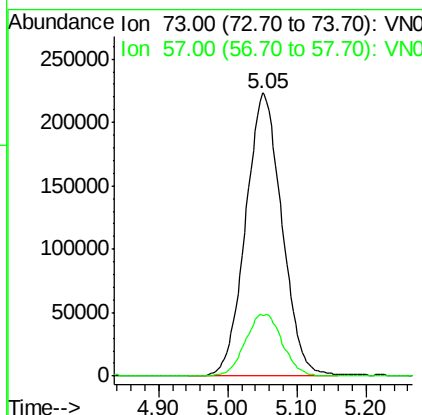
#19
Methyl tert-butyl Ether
Concen: 19.23 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Tot Ion: 73 Resp: 811994
Ion Ratio Lower Upper
73 100
57 21.6 18.2 27.4

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBSD02

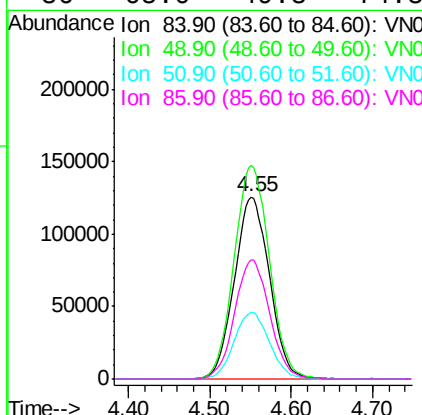
Manual Integrations
APPROVED

MMDadoda
6/18/2018 3:16:18 PM



#20
Methylene Chloride
Concen: 19.30 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Tgt Ion: 84 Resp: 374870
Ion Ratio Lower Upper
84 100
49 117.1 106.9 160.3
51 36.6 32.7 49.1
86 65.0 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 19.28 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

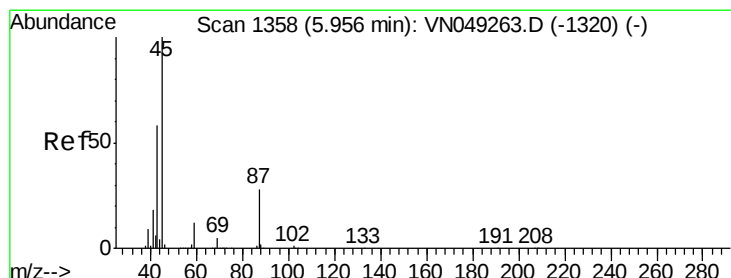
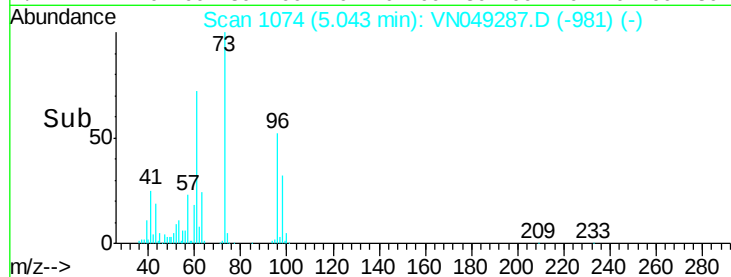
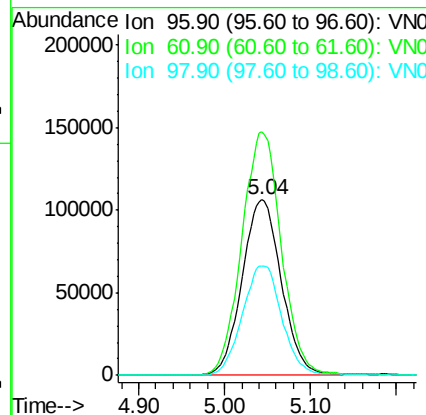
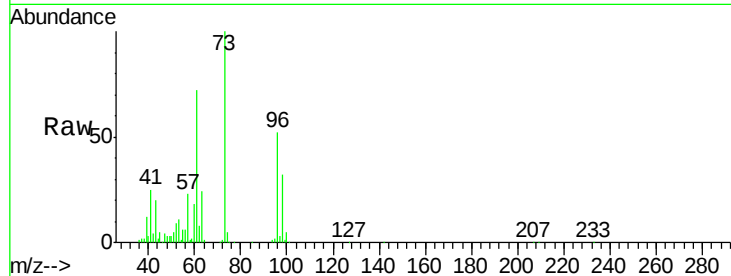
ClientSampleId :

VN0616WBSD02

Tot Ion:	96	Resp:	338061
Ion Ratio	Lower	Upper	
96	100		
61	139.0	121.3	181.9
98	62.5	52.0	78.0

Manual Integrations
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6/18/2018 3:16:18 PM



#22

Diisopropyl ether

Concen: 20.35 ug/l

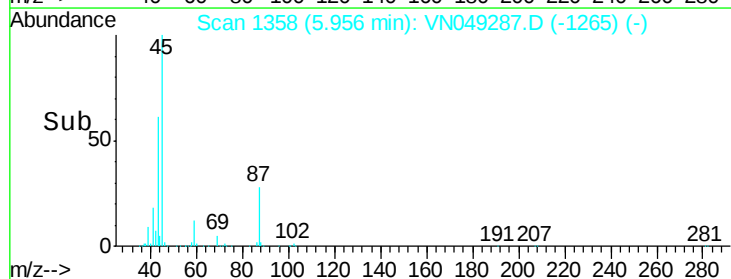
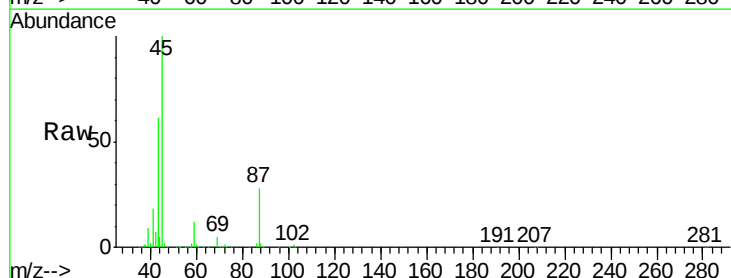
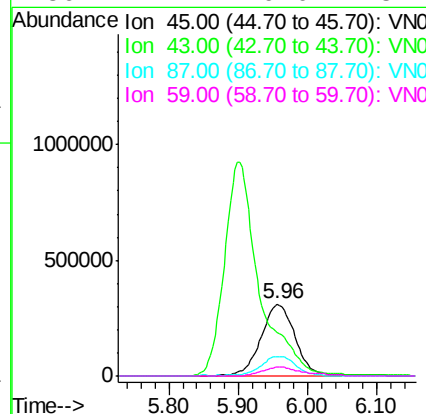
RT: 5.96 min Scan# 1358

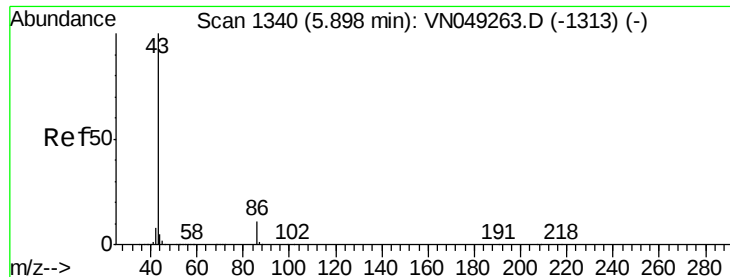
Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Tgt Ion:	45	Resp:	1062540
Ion Ratio	Lower	Upper	
45	100		
43	60.0	48.6	72.8
87	27.2	20.2	30.2
59	12.2	9.0	13.4





#23

Vinyl Acetate

Concen: 95.32 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Tot Ion: 43 Resp: 3245154

Ion Ratio Lower Upper

43 100

86 10.6 7.2 10.8

Instrument :

MSVOA_N

ClientSampled :

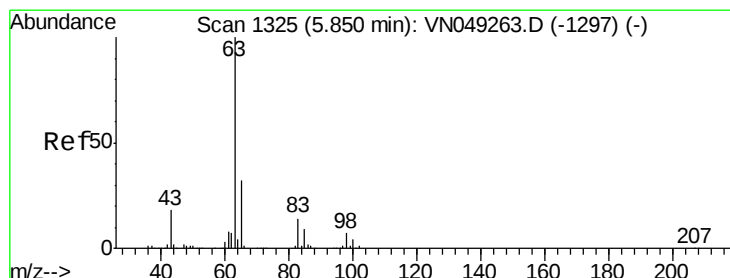
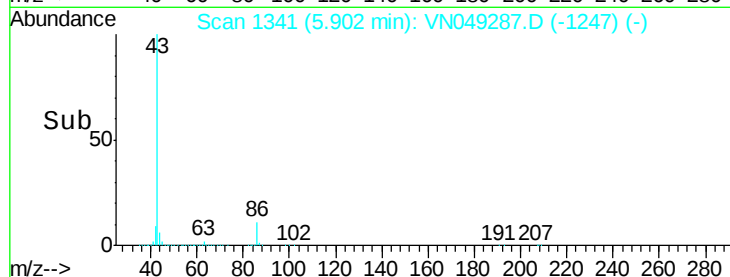
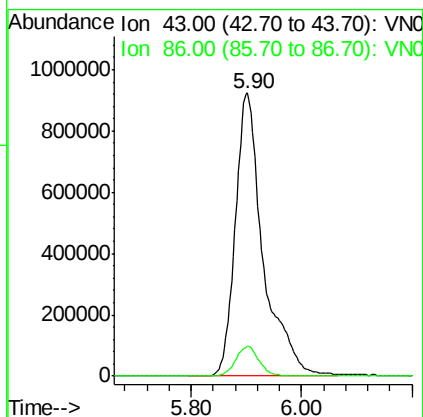
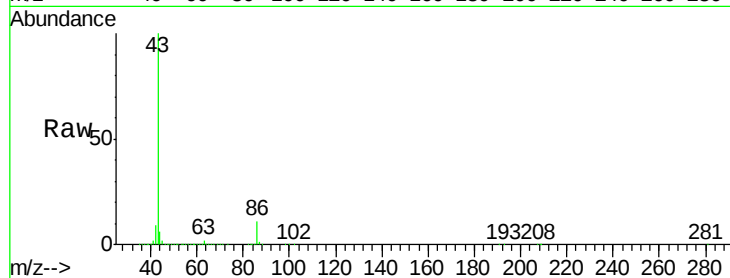
VN0616WBSD02

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 19.60 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

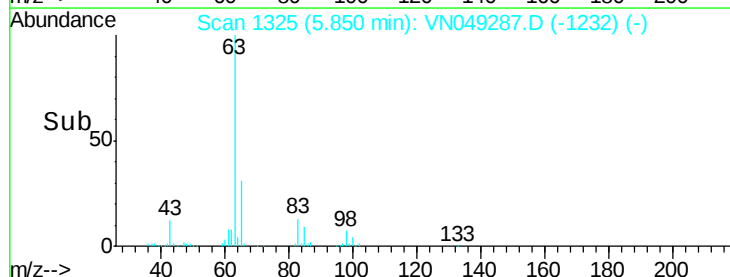
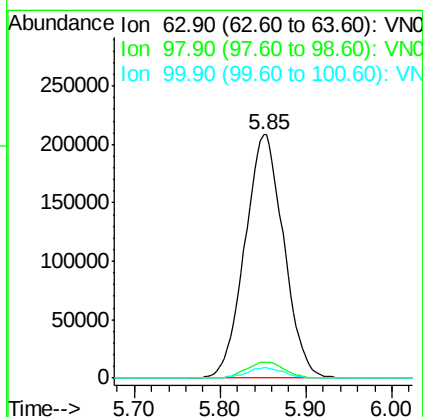
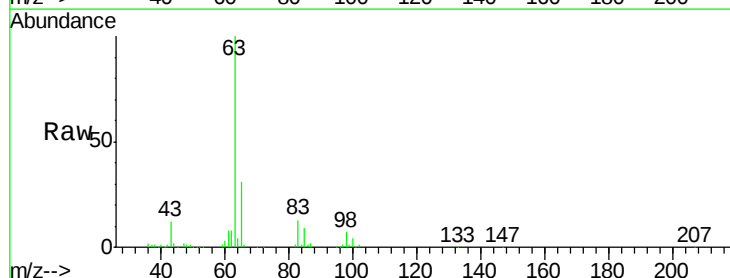
Tgt Ion: 63 Resp: 655156

Ion Ratio Lower Upper

63 100

98 6.7 2.9 8.8

100 4.2 2.1 6.3





#25

2-Butanone

Concen: 86.74 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

ClientSampleId :

VN0616WBSD02

Tot Ion: 43 Resp: 541821

Ion Ratio Lower Upper

43 100

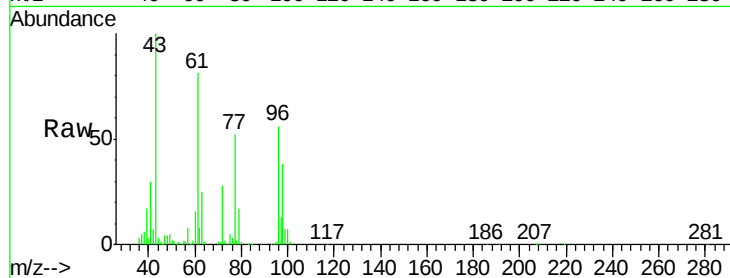
72 27.8 20.2 30.2

Manual Integrations

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MMDadoda

6/18/2018 3:16:18 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.84

200000

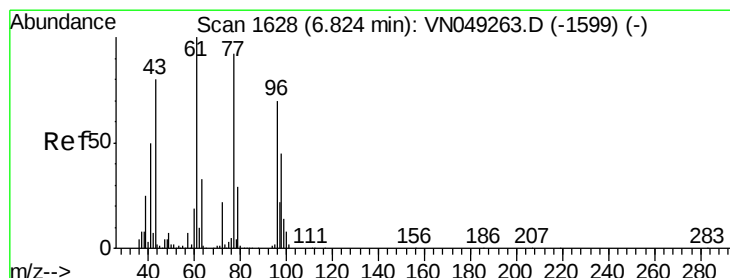
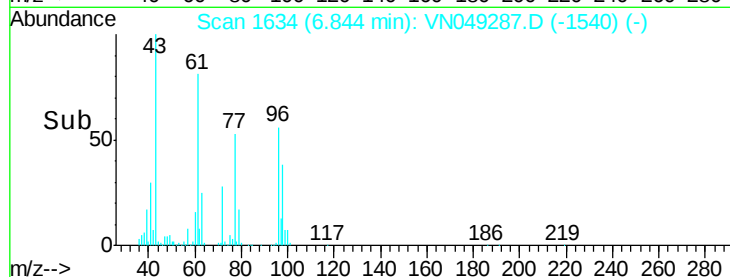
150000

100000

50000

0

Time--> 6.70 6.80 6.90



#26

2,2-Dichloropropane

Concen: 15.63 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN049287.D

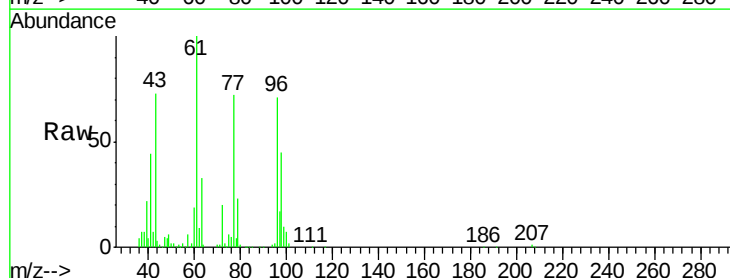
Acq: 16 Jun 2018 4:17

Tgt Ion: 77 Resp: 421963

Ion Ratio Lower Upper

77 100

97 23.6 11.0 33.0



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.83

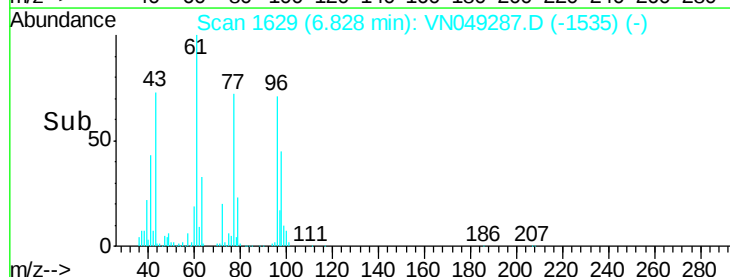
150000

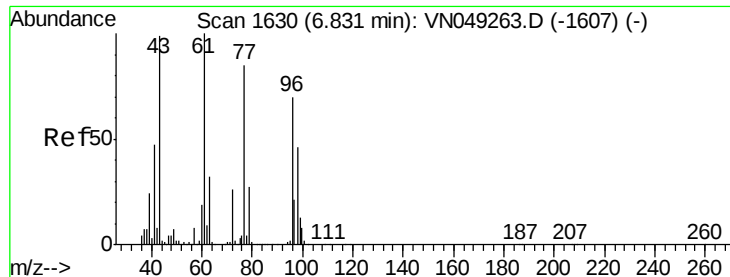
100000

50000

0

Time--> 6.70 6.80 6.90





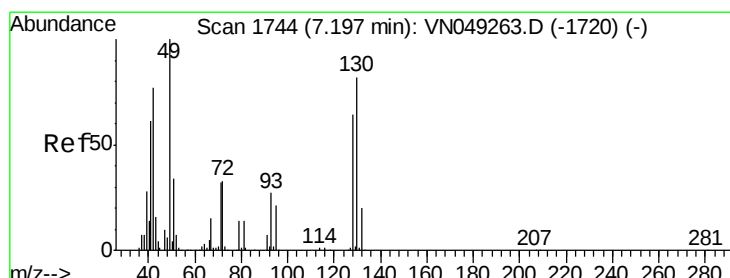
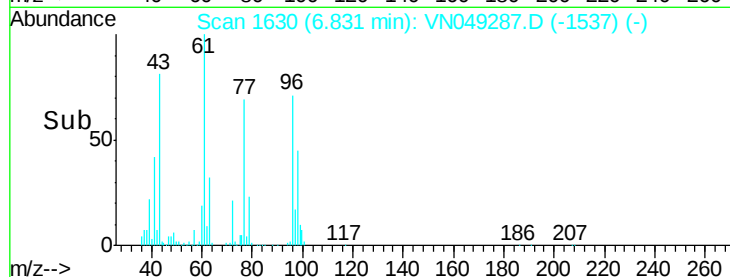
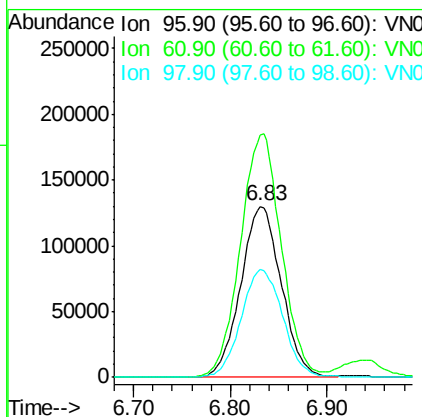
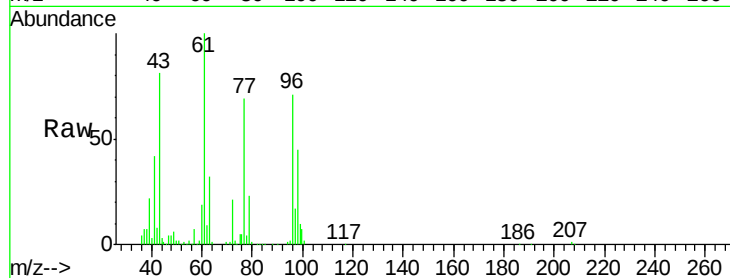
#27
 cis-1,2-Dichloroethene
 Concen: 19.41 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VN049287.D
 Acq: 16 Jun 2018 4:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0616WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
96	100	378375		
61	143.8	0.0	316.4	
98	64.9	0.0	128.4	

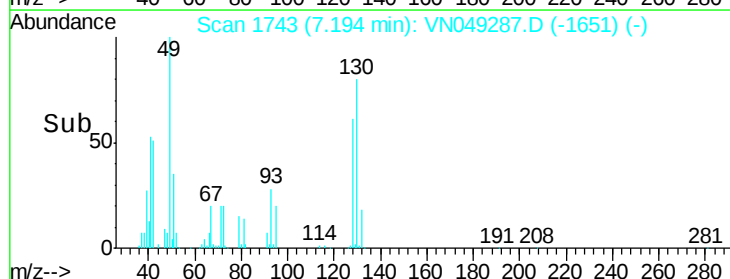
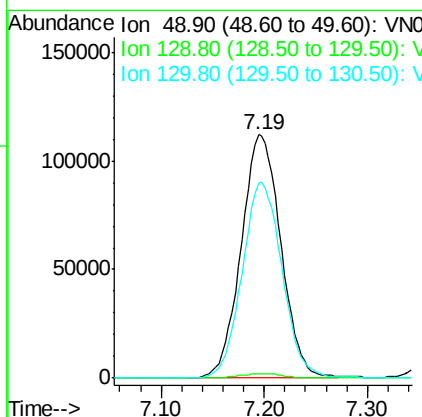
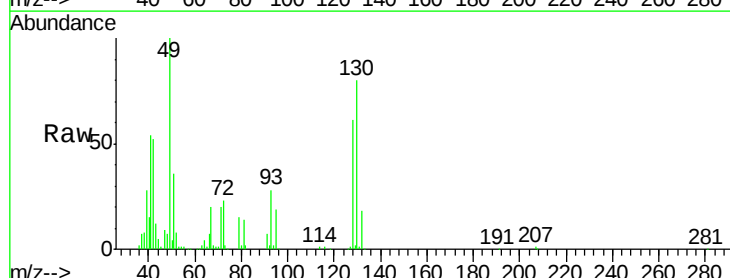
Manual Integrations
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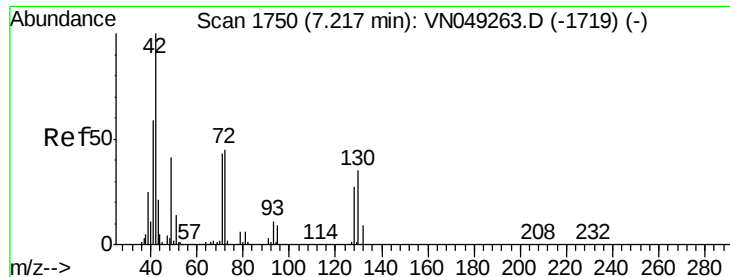
MMDadoda
 6/18/2018 3:16:18 PM



#28
 Bromochloromethane
 Concen: 20.23 ug/l
 RT: 7.19 min Scan# 1743
 Delta R.T. -0.00 min
 Lab File: VN049287.D
 Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	299764		
129	2.0	0.0	3.8	
130	81.1	54.9	82.3	





#29

Tetrahydrofuran

Concen: 91.45 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

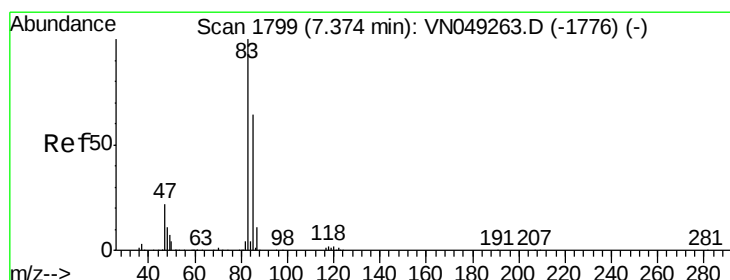
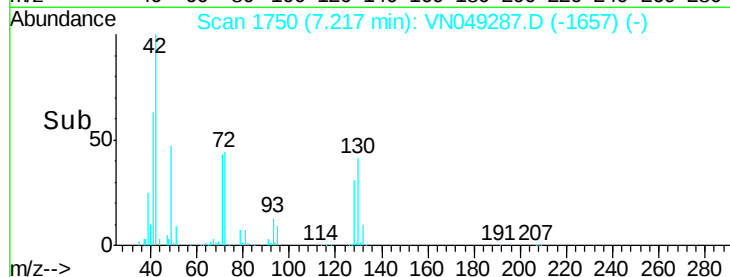
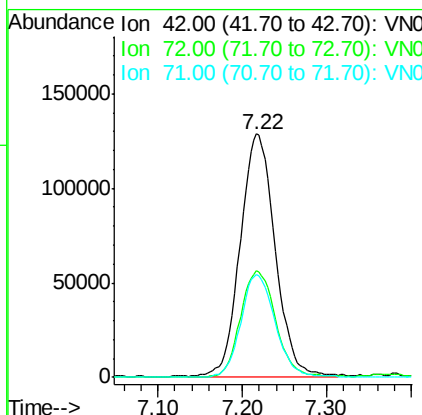
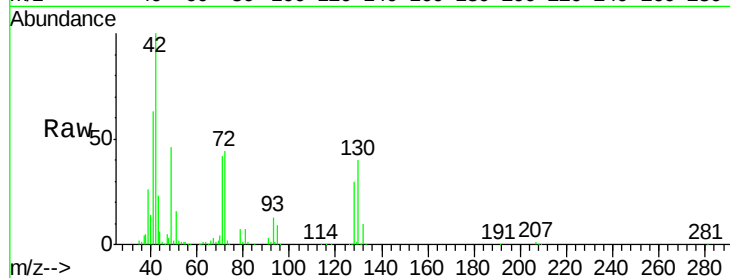
ClientSampleId :

VN0616WBSD02

Tot Ion:	42	Resp:	367694
Ion Ratio	Lower	Upper	
42	100		
72	43.8	32.2	48.4
71	42.0	30.5	45.7

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#30

Chloroform

Concen: 19.88 ug/l

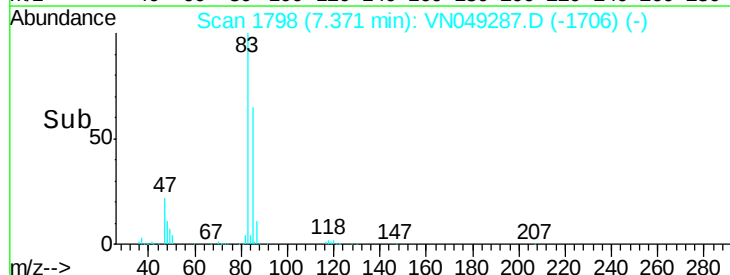
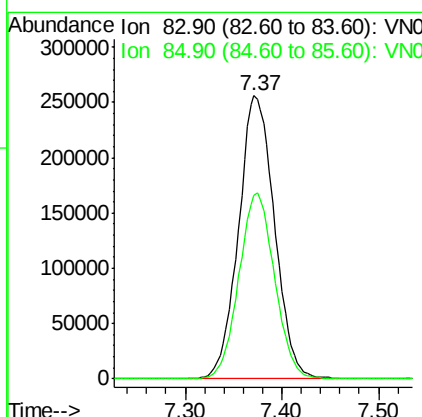
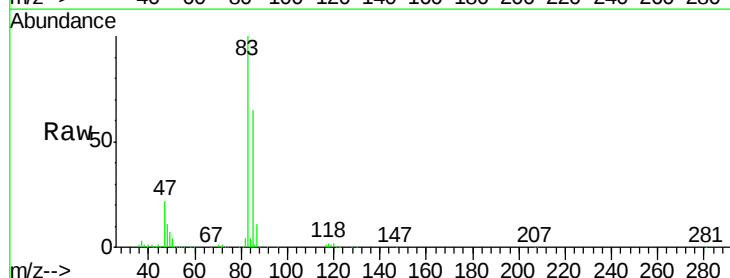
RT: 7.37 min Scan# 1798

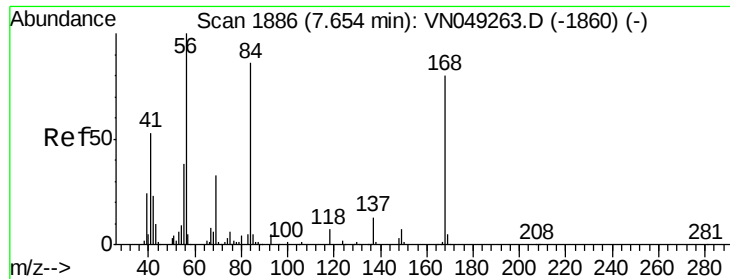
Delta R.T. -0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Tgt Ion:	83	Resp:	661412
Ion Ratio	Lower	Upper	
83	100		
85	65.0	51.7	77.5





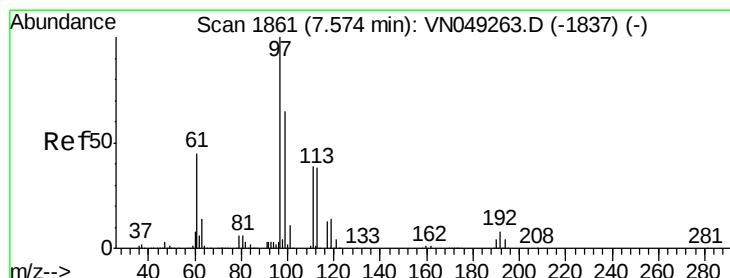
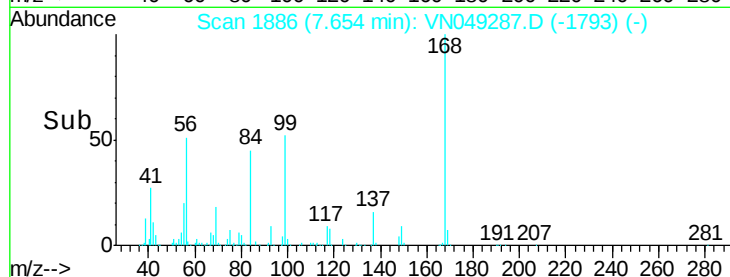
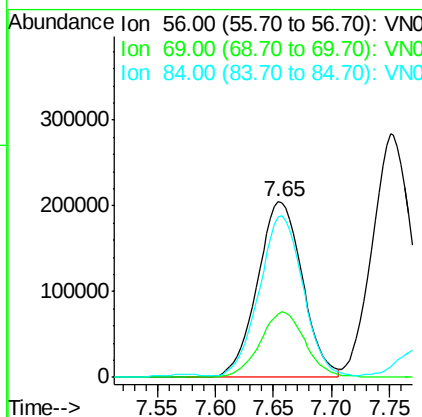
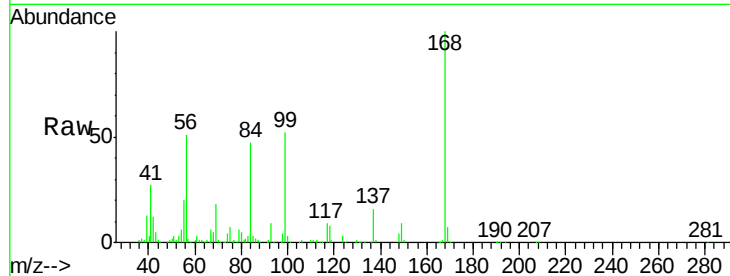
#31
Cyclohexane
Concen: 19.41 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBSD02

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.3	25.0	37.4
84	90.0	64.6	96.8

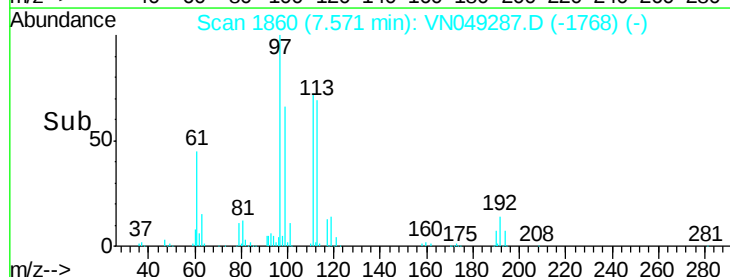
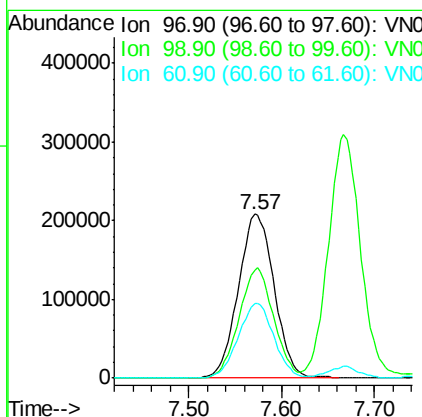
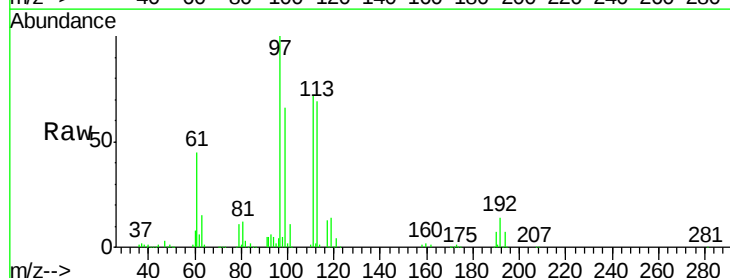
Manual Integrations
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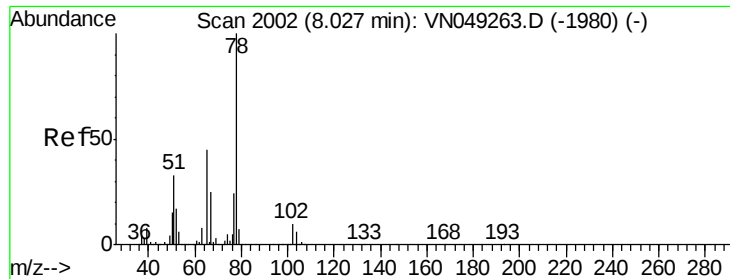
MMDadoda
6/18/2018 3:16:18 PM



#32
1,1,1-Trichloroethane
Concen: 19.77 ug/l
RT: 7.57 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	50.5	75.7
61	45.1	37.9	56.9





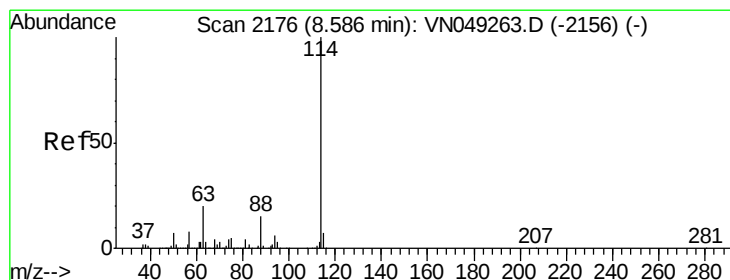
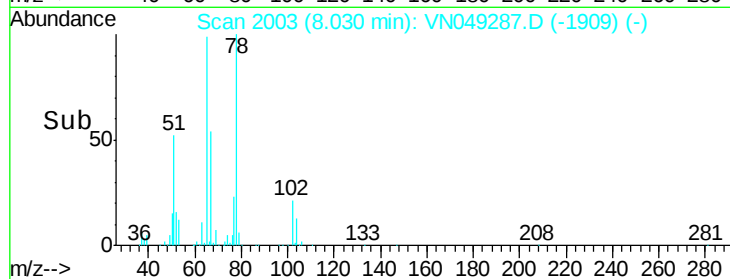
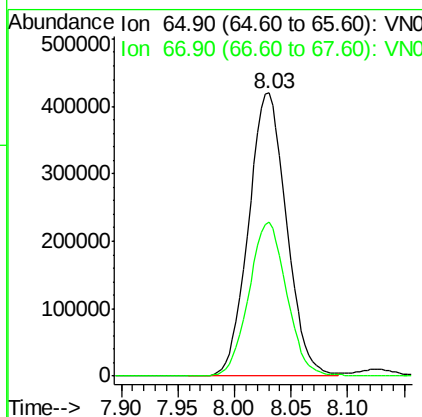
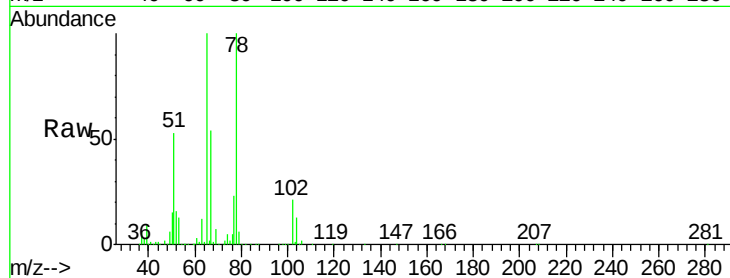
#33
 1,2-Dichloroethane-d4
 Concen: 51.15 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049287.D
 Acq: 16 Jun 2018 4:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0616WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.1	0.0	103.8	

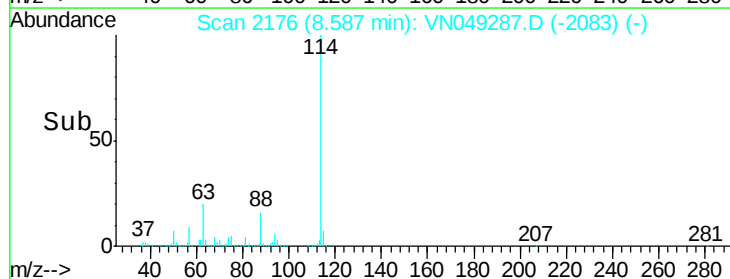
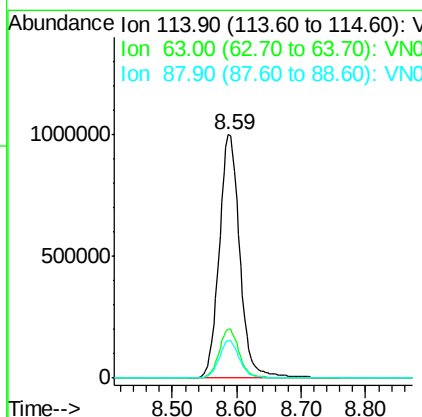
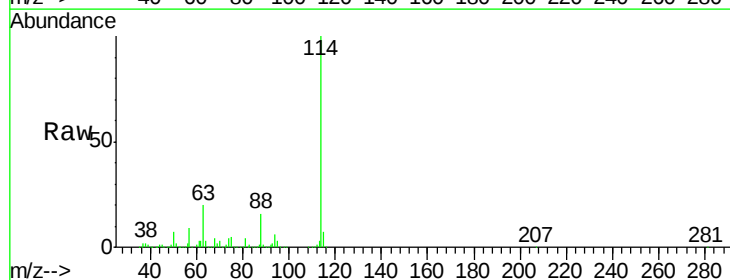
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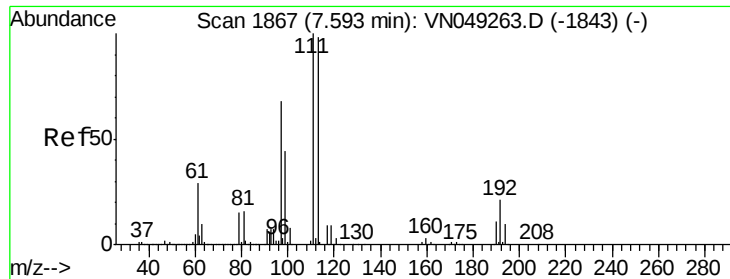
MMDadoda
 6/18/2018 3:16:18 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049287.D
 Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.2	0.0	44.4	
88	15.6	0.0	31.4	





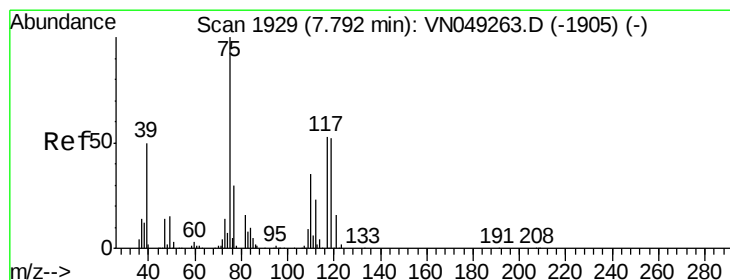
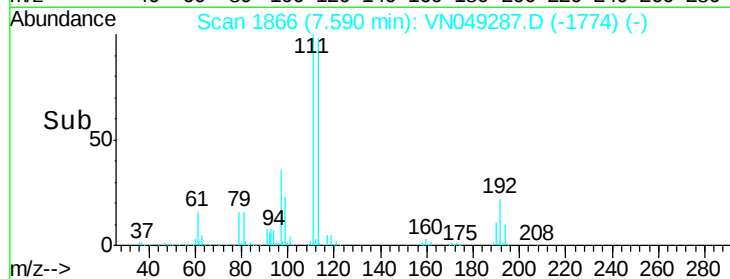
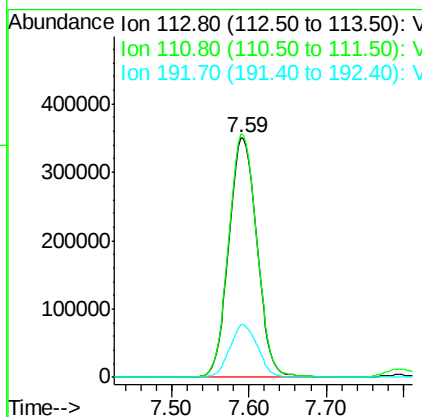
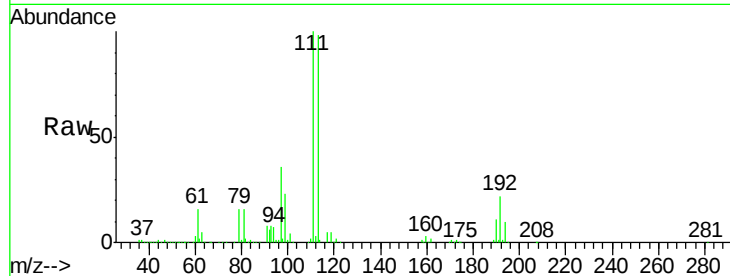
#35
Dibromofluoromethane
Concen: 49.50 ug/l
RT: 7.59 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	884638		
111	101.7	82.4	123.6	
192	21.8	15.0	22.6	

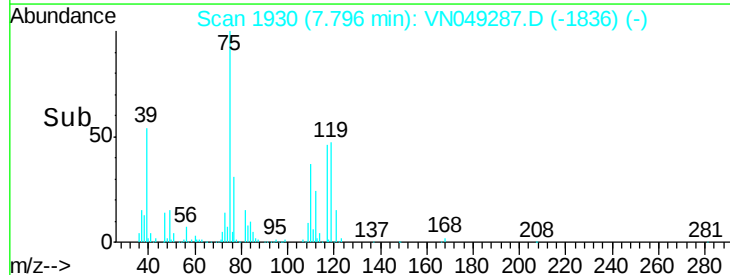
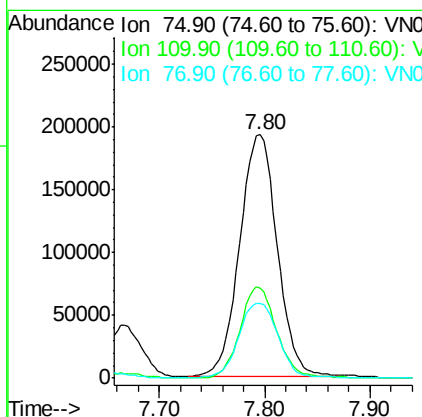
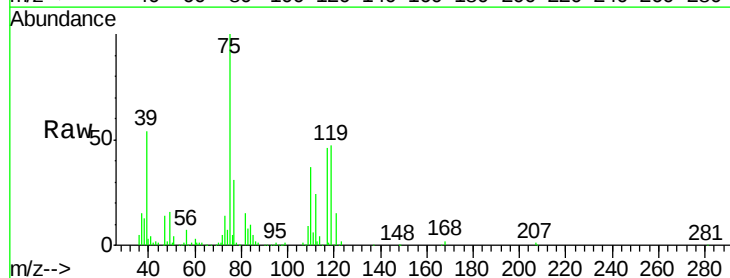
Manual Integrations
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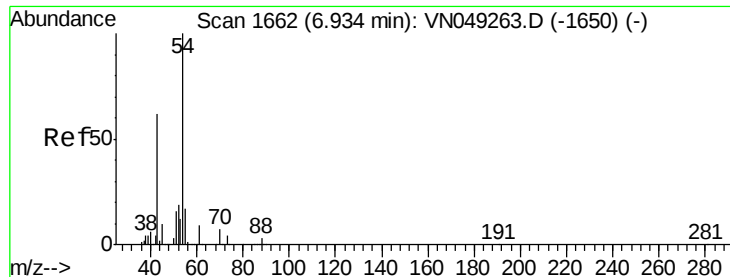
MMDadoda
6/18/2018 3:16:18 PM



#36
1,1-Dichloropropene
Concen: 18.86 ug/l
RT: 7.80 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	477509		
110	36.7	17.0	50.9	
77	32.8	24.4	36.6	





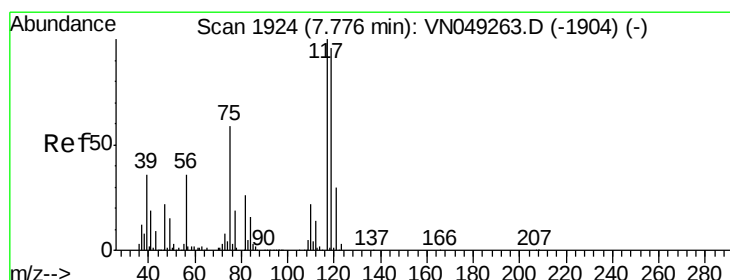
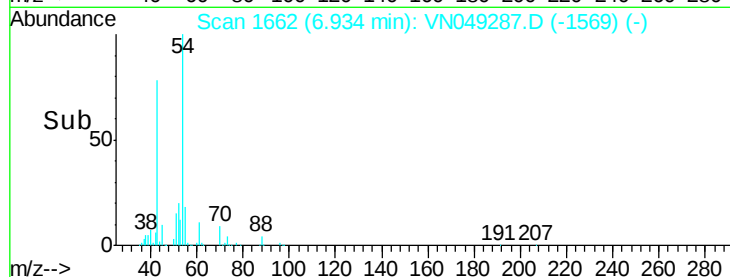
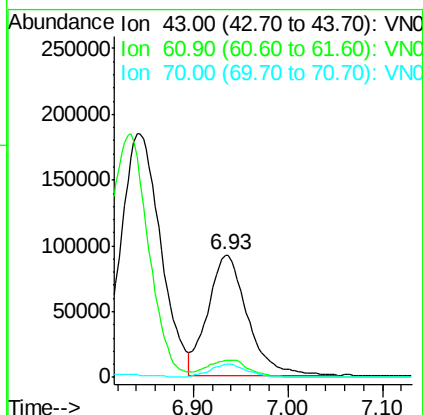
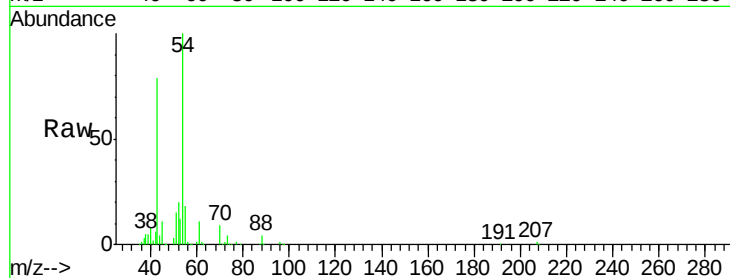
#37
Ethyl Acetate
Concen: 19.42 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Instrument :
MSVOA_N
ClientSampleID :
VN0616WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.0	16.4
70	9.8	7.2	10.8

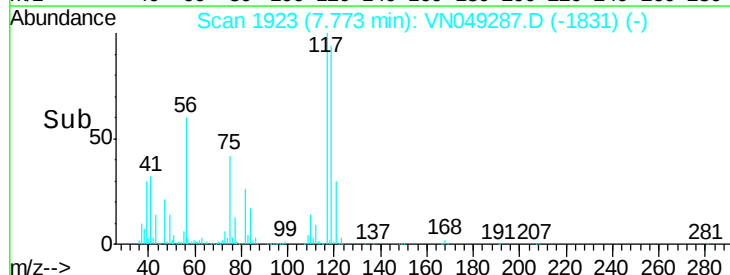
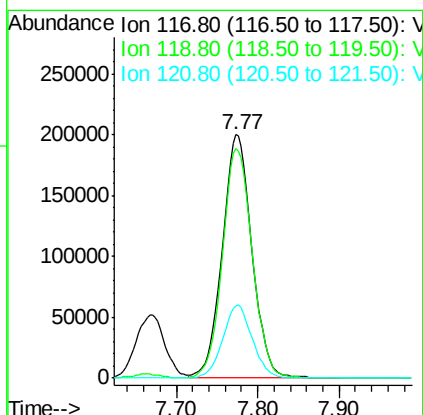
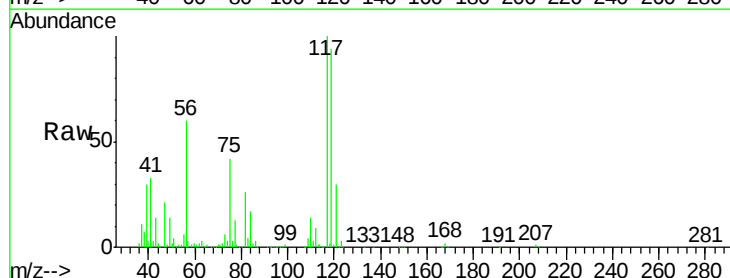
Manual Integrations
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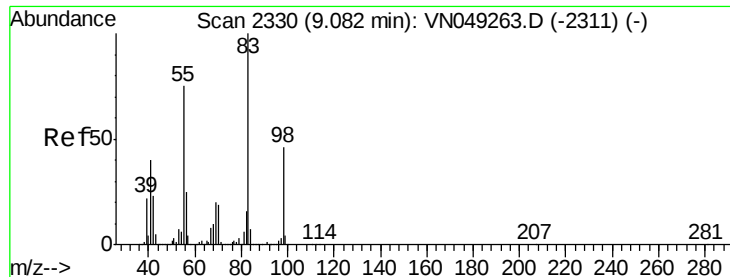
MMDadoda
6/18/2018 3:16:18 PM



#38
Carbon Tetrachloride
Concen: 19.48 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.0	75.6	113.4
121	29.8	24.7	37.1





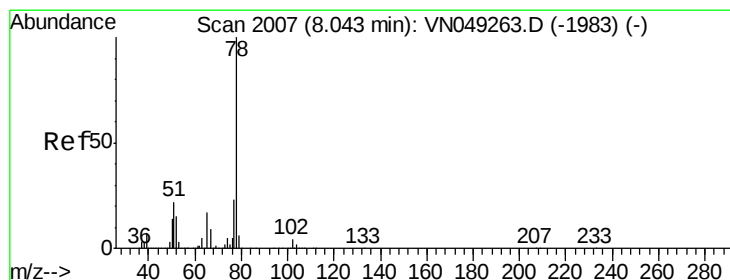
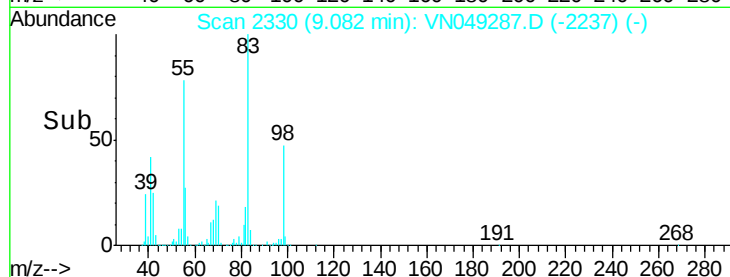
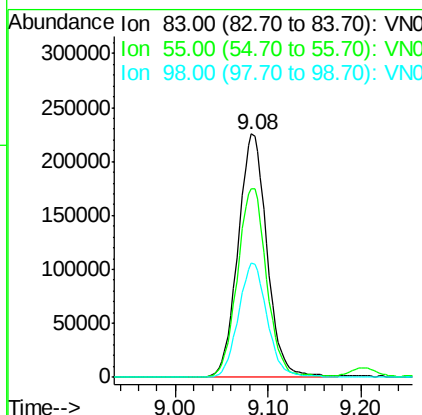
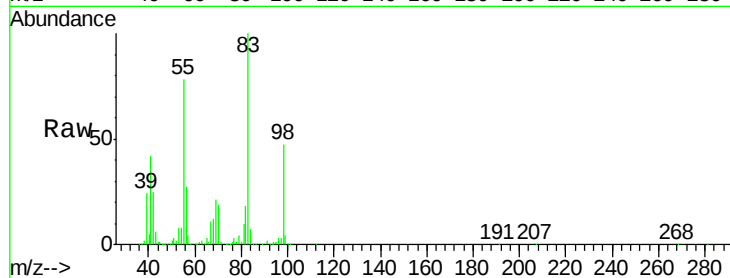
#39
Methvlcvclohexane
Concen: 17.99 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.5	65.1	97.7
98	46.8	36.5	54.7

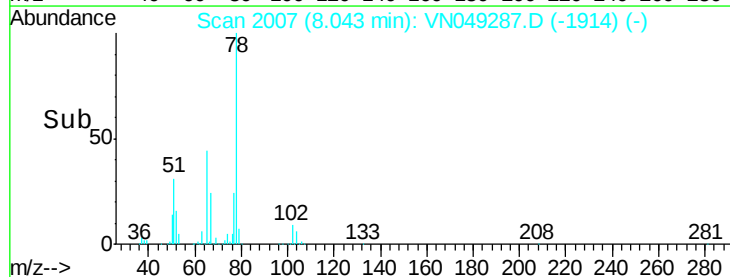
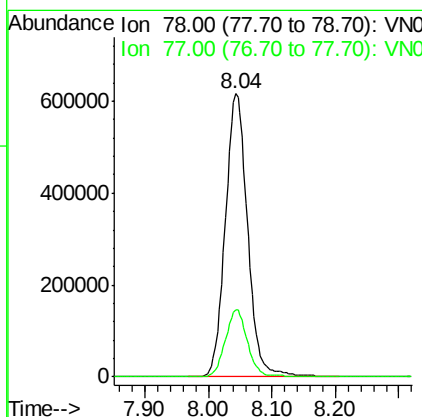
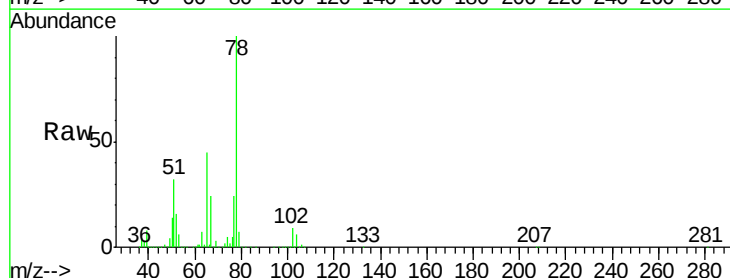
Manual Integrations
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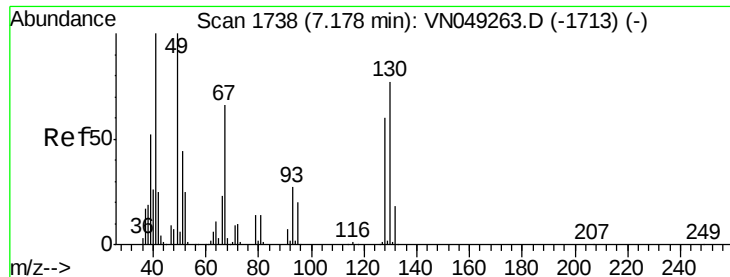
MMDadoda
6/18/2018 3:16:18 PM



#40
Benzene
Concen: 19.35 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.4	29.0





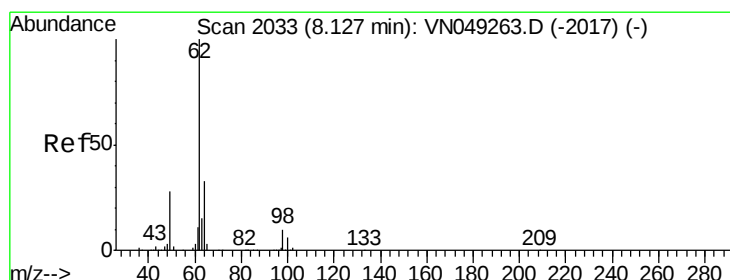
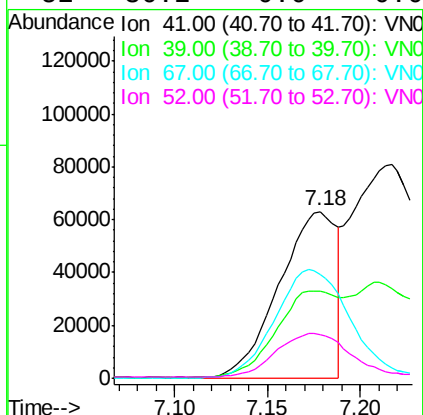
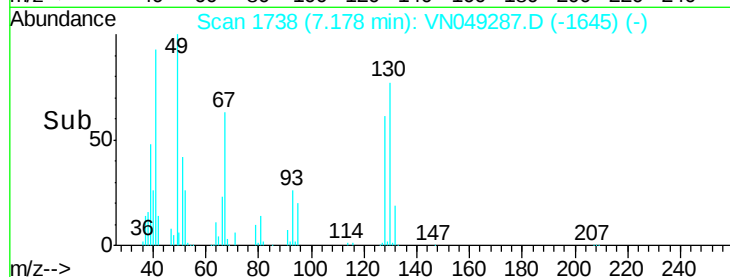
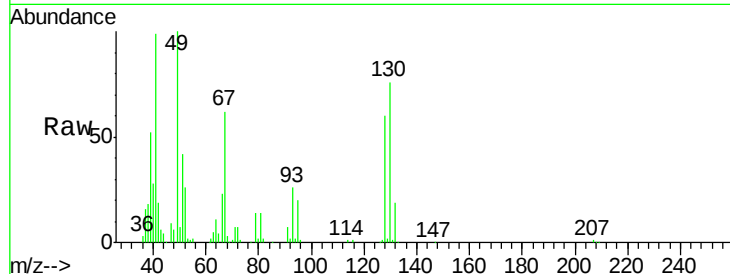
#41
Methacrylonitrile
Concen: 18.12 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBSD02

Tot Ion	Ratio	Lower	Upper
41	100		
39	58.9	0.0	0.0#
67	87.3	0.0	0.0#
52	36.2	0.0	0.0#

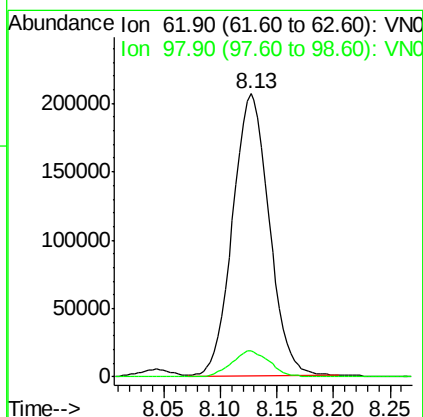
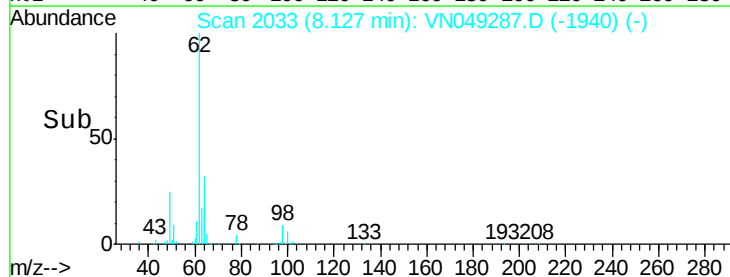
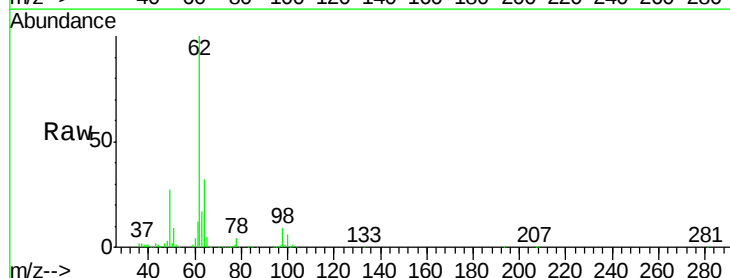
Manual Integrations
APPROVED

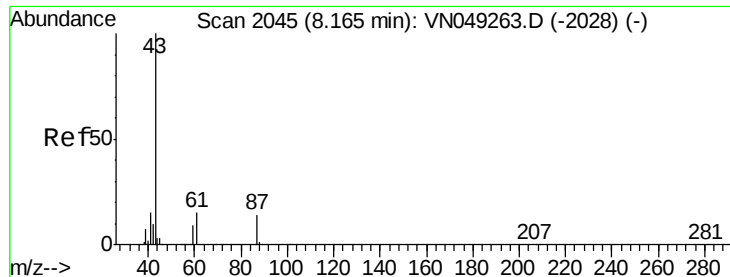
MMDadoda
6/18/2018 3:16:18 PM



#42
1,2-Dichloroethane
Concen: 19.35 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	16.2





#43

Isopropyl Acetate

Concen: 20.77 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

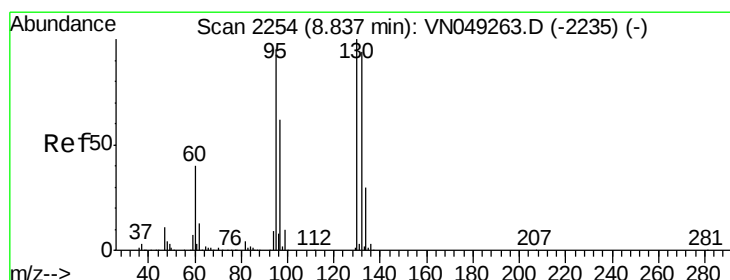
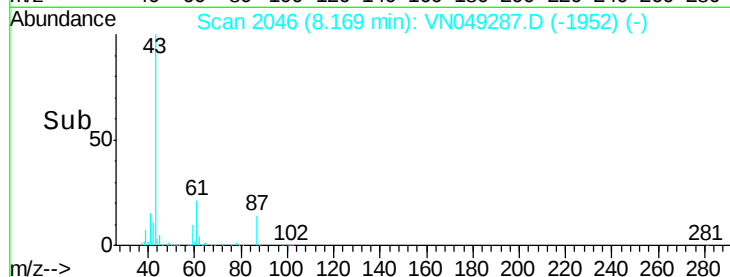
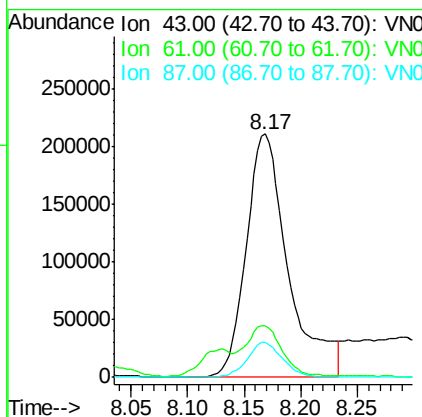
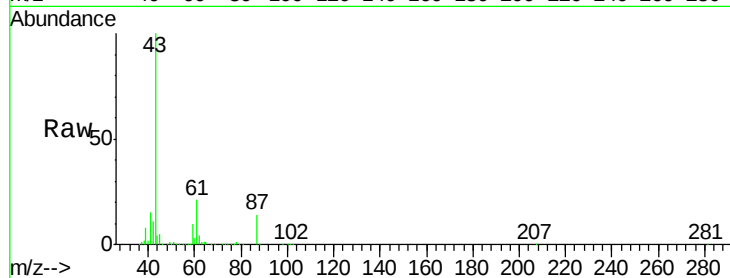
ClientSampleId :

VN0616WBSD02

Tot Ion:	43	Resp:	546124
Ion	Ratio	Lower	Upper
43	100		
61	17.4	14.2	21.4
87	12.1	9.4	14.0

Manual Integrations
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#44

Trichloroethene

Concen: 18.97 ug/l

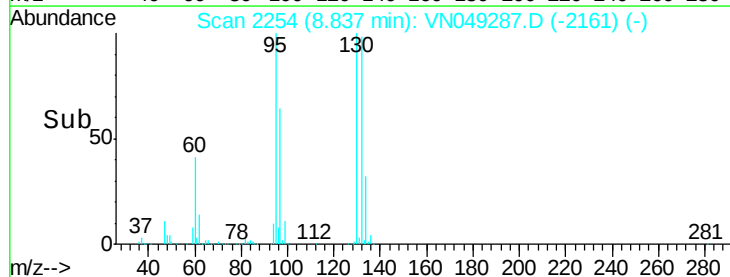
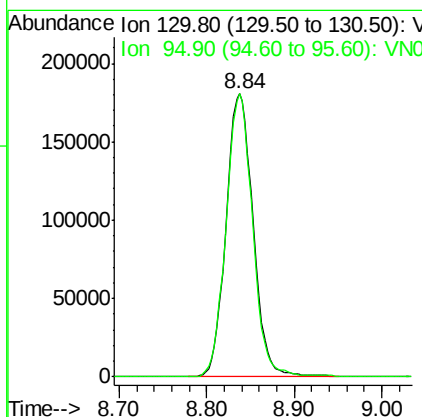
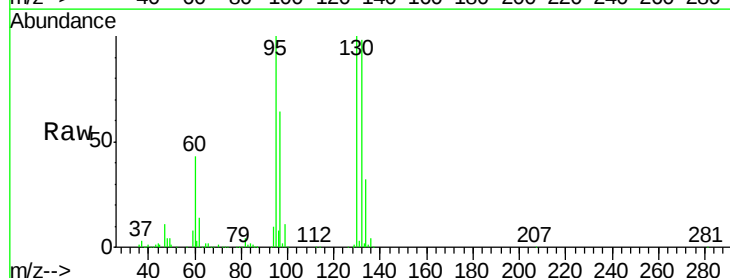
RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Tgt Ion:	130	Resp:	388934
Ion	Ratio	Lower	Upper
130	100		
95	99.9	0.0	208.6





#45

1,2-Dichloropropane

Concen: 19.26 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Tot Ion: 63 Resp: 391396

Ion Ratio Lower Upper

63 100

65 31.8 24.8 37.2

Instrument :

MSVOA_N

ClientSampleId :

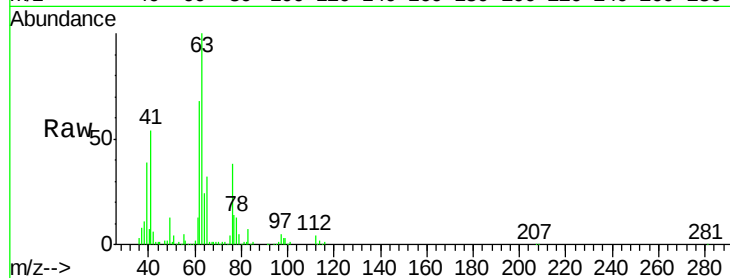
VN0616WBSD02

Manual Integrations

APPROVED

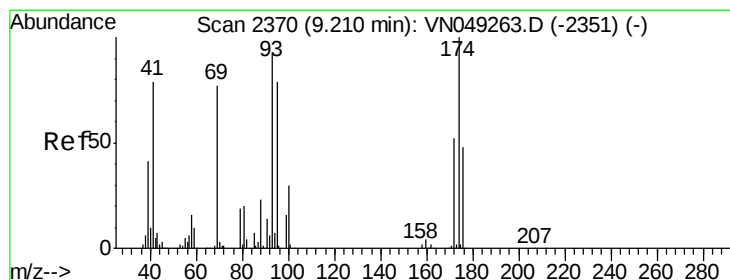
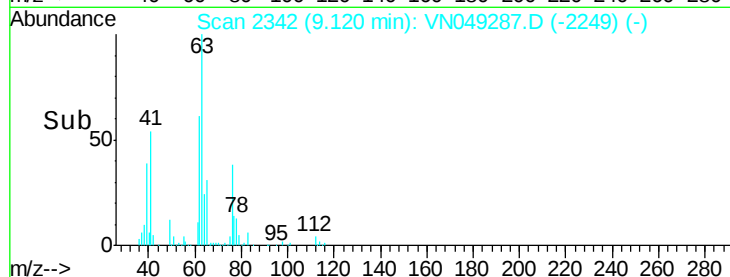
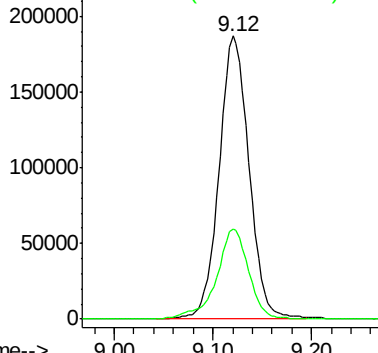
MMDadoda

6/18/2018 3:16:18 PM



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 19.37 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

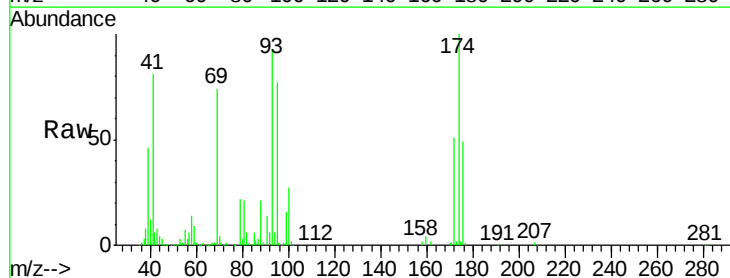
Tgt Ion: 93 Resp: 228326

Ion Ratio Lower Upper

93 100

95 83.6 67.2 100.8

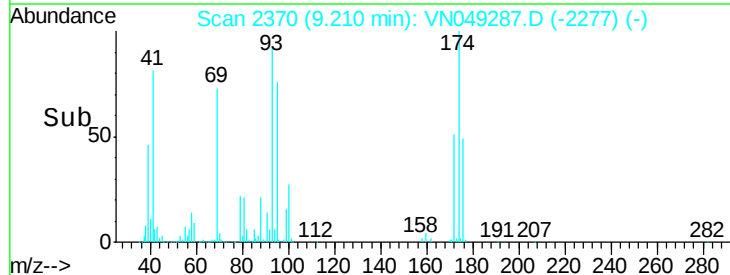
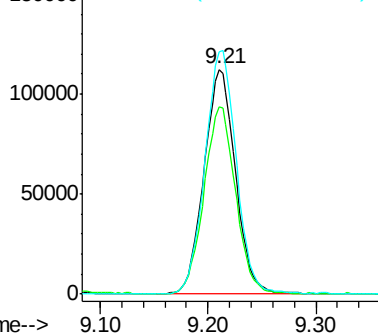
174 107.8 75.6 113.4

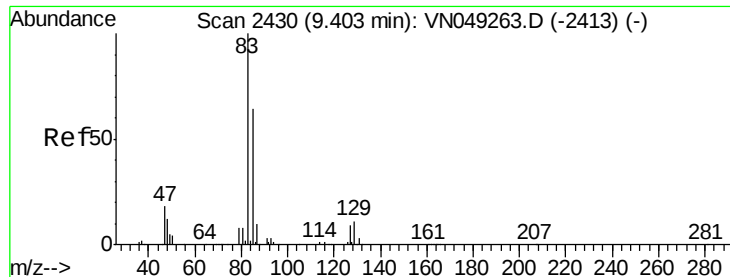


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 19.36 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

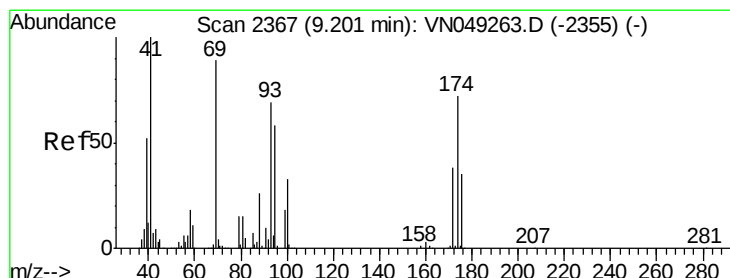
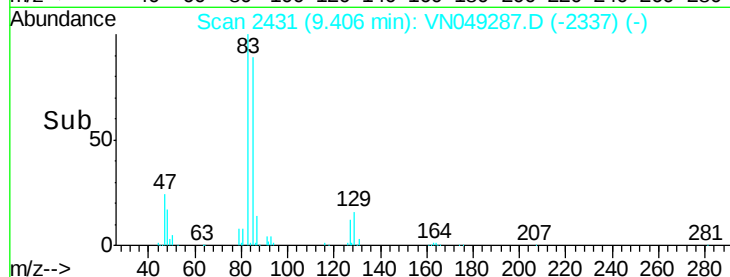
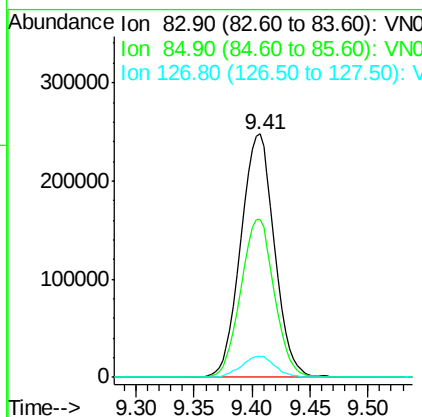
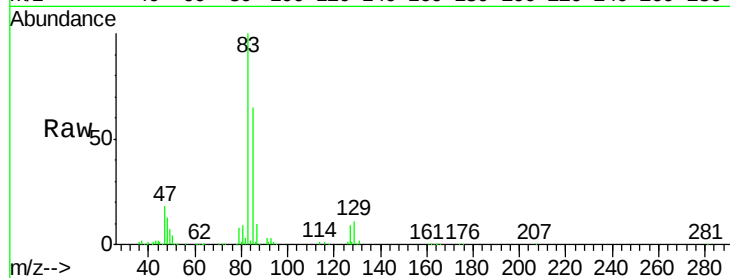
ClientSampleId :

VN0616WBSD02

Tot Ion:	83	Resp:	501458
Ion Ratio	Lower	Upper	
83	100		
85	64.9	49.4	74.0
127	8.7	6.3	9.5

Manual Integrations
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#48

Methyl methacrylate

Concen: 18.86 ug/l

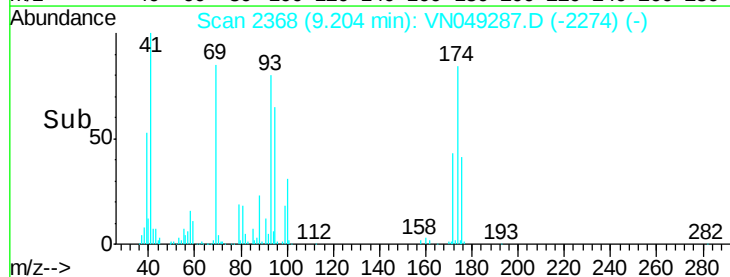
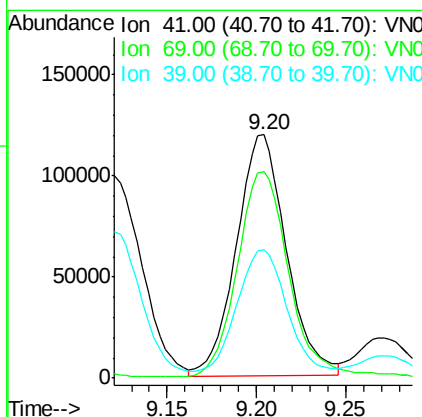
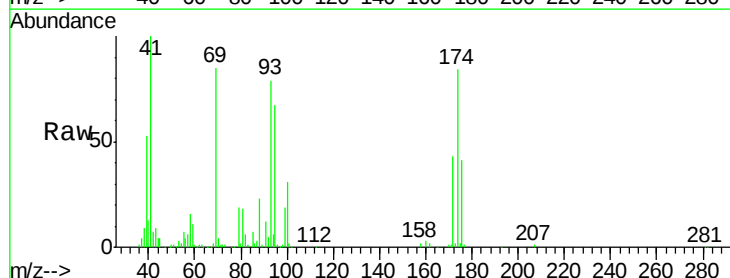
RT: 9.20 min Scan# 2368

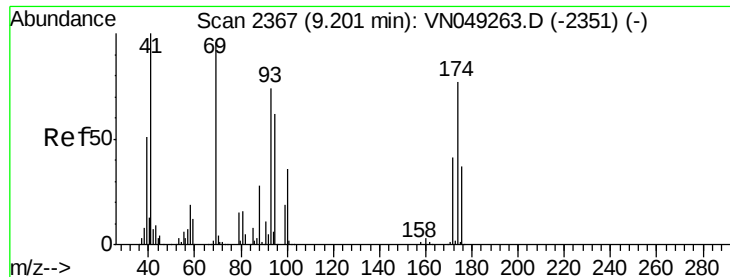
Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Tgt Ion:	41	Resp:	233583
Ion Ratio	Lower	Upper	
41	100		
69	88.2	62.0	93.0
39	54.3	50.6	75.8





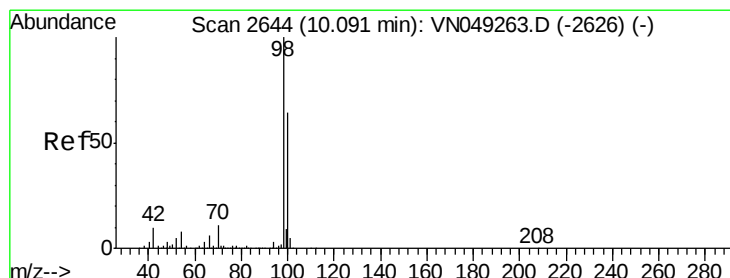
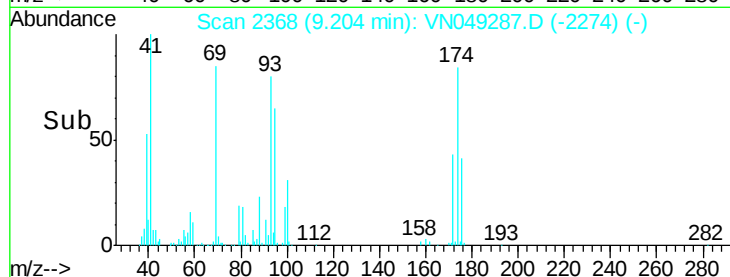
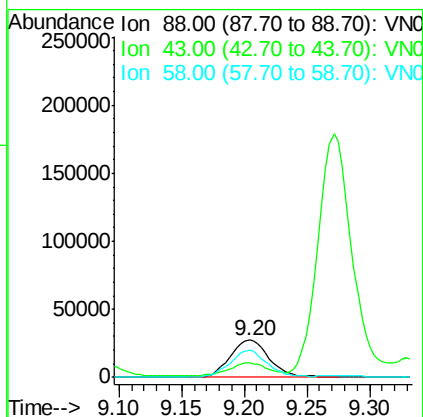
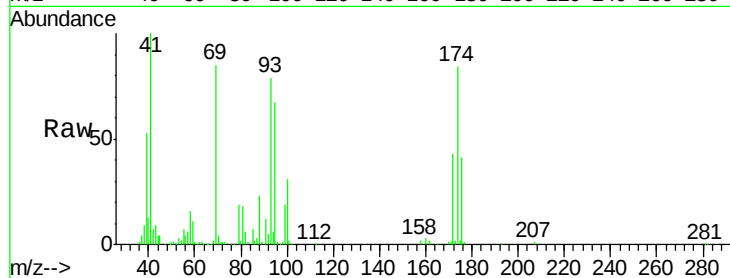
#49
1,4-Dioxane
Concen: 351.18 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBSD02

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.6	30.9	46.3
58	69.3	58.9	88.3

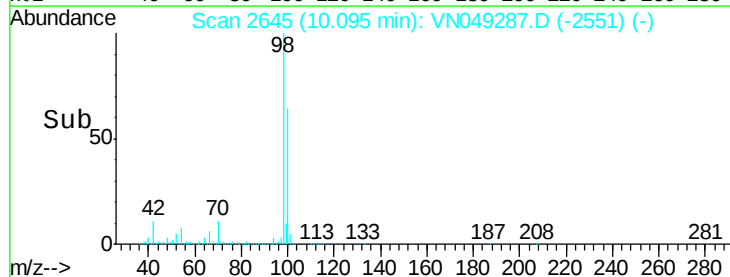
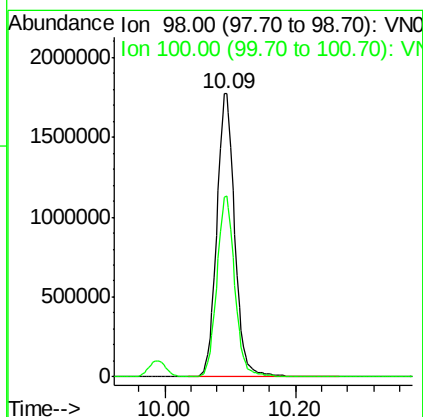
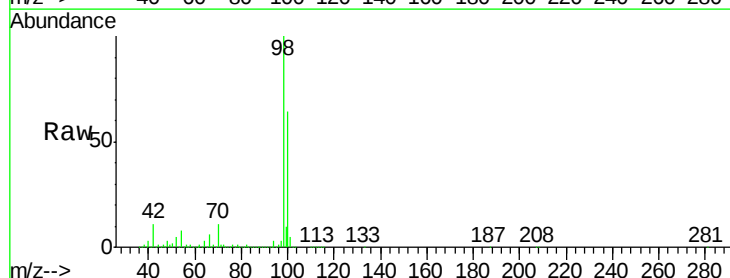
Manual Integrations
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#50
Toluene-d8
Concen: 49.82 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.9	49.8	74.8





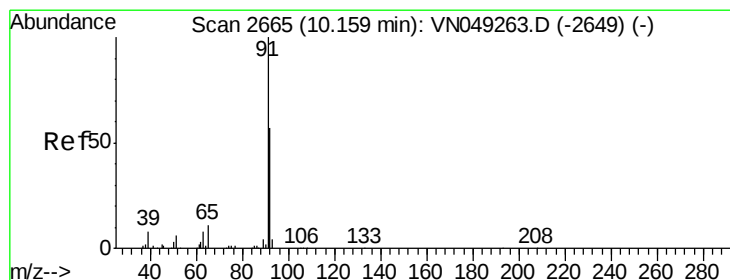
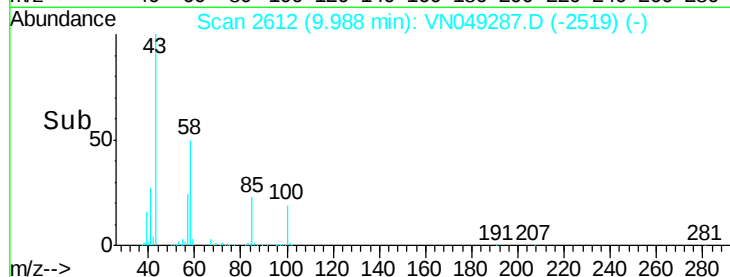
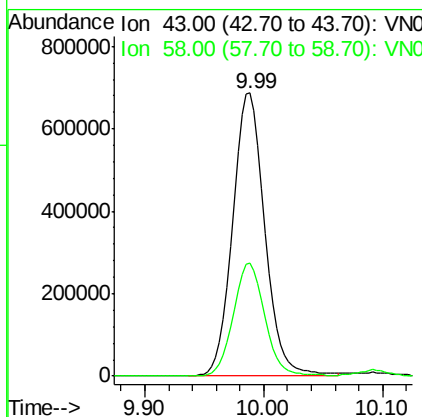
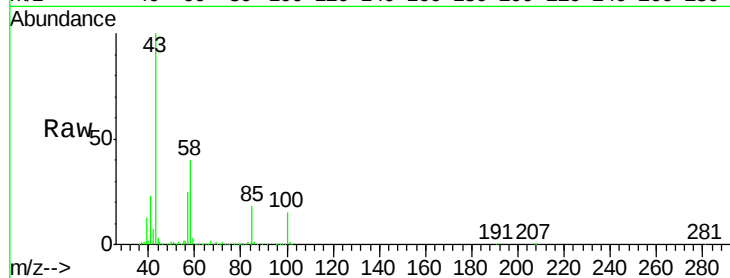
#51
4-Methyl-2-Pentanone
Concen: 93.17 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBSD02

Tot Ion: 43 Resp: 1284243
Ion Ratio Lower Upper
43 100
58 39.3 29.0 43.6

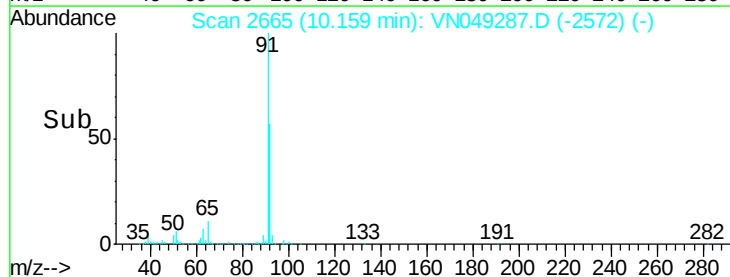
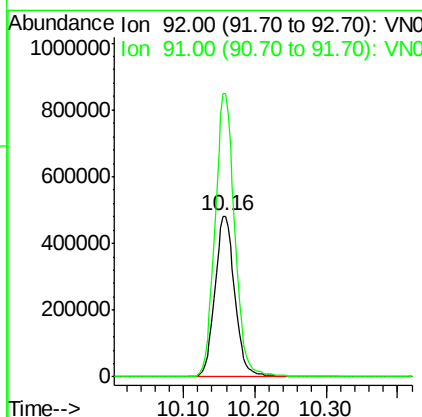
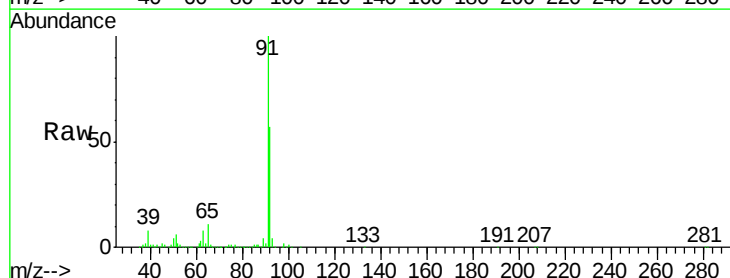
Manual Integrations
APPROVED

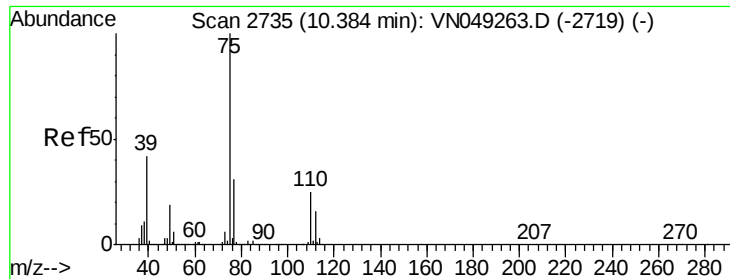
MMDadoda
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#52
Toluene
Concen: 20.39 ug/l
RT: 10.16 min Scan# 2665
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Tgt Ion: 92 Resp: 928858
Ion Ratio Lower Upper
92 100
91 175.1 143.4 215.2





#53

t-1,3-Dichloropropene

Concen: 18.02 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

ClientSampleId :

VN0616WBSD02

Tot Ion: 75 Resp: 446362

Ion Ratio Lower Upper

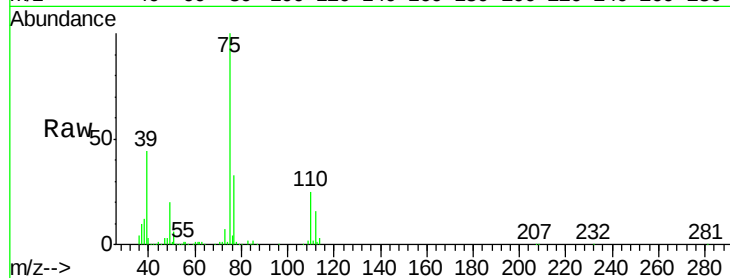
75 100

77 33.0 25.2 37.8

Manual Integrations
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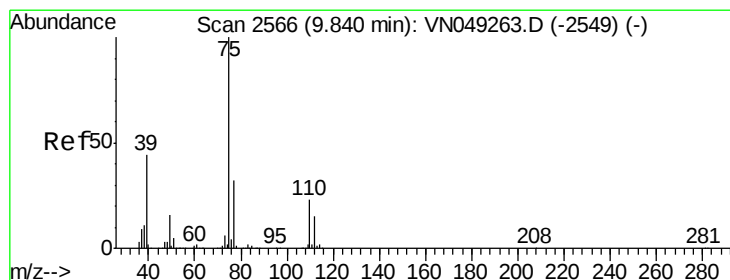
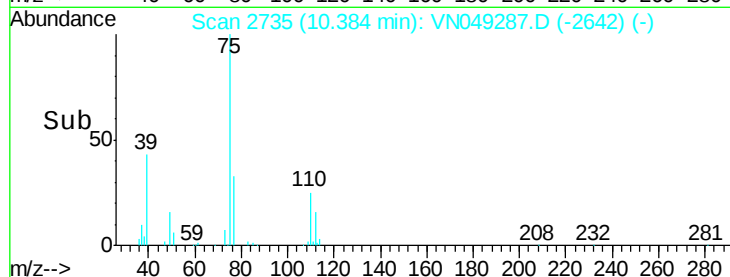
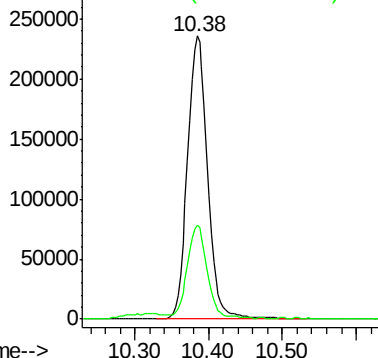
MMDadoda

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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 18.18 ug/l

RT: 9.84 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

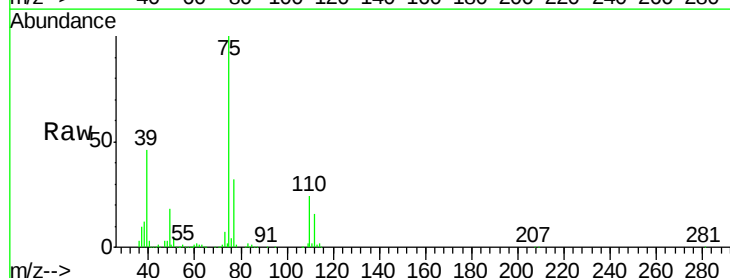
Tgt Ion: 75 Resp: 531850

Ion Ratio Lower Upper

75 100

77 32.1 24.8 37.2

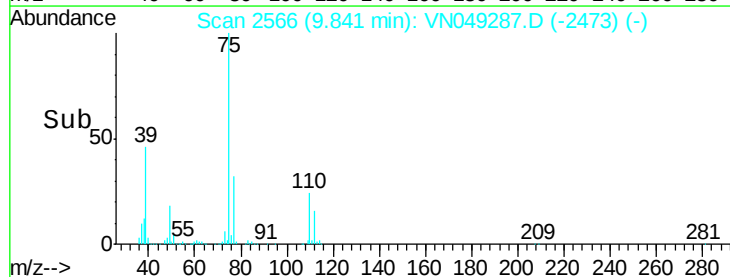
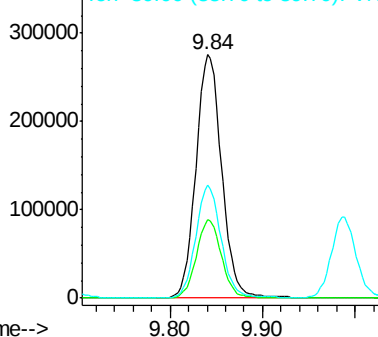
39 46.2 45.1 67.7

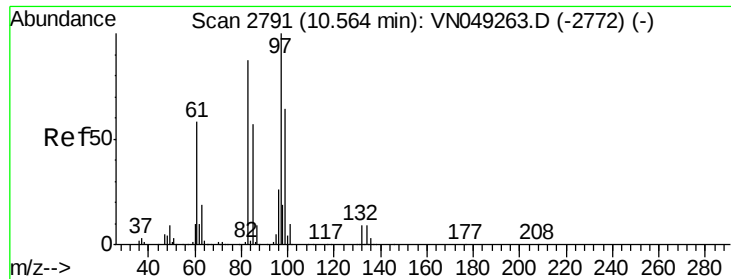


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





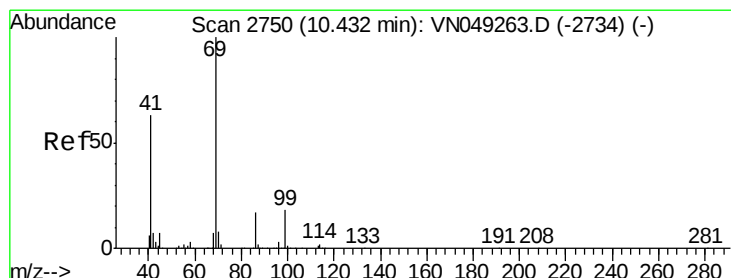
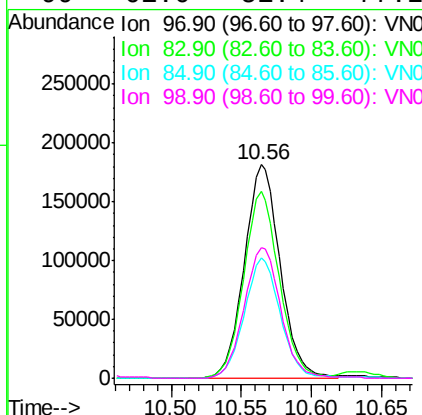
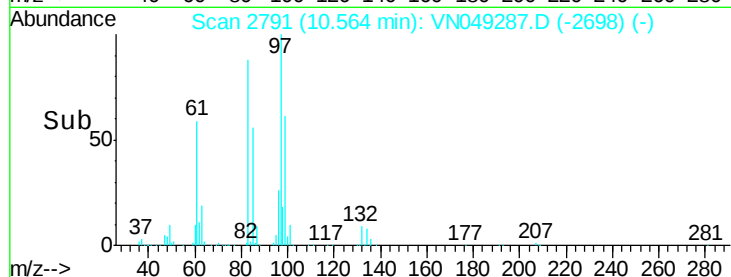
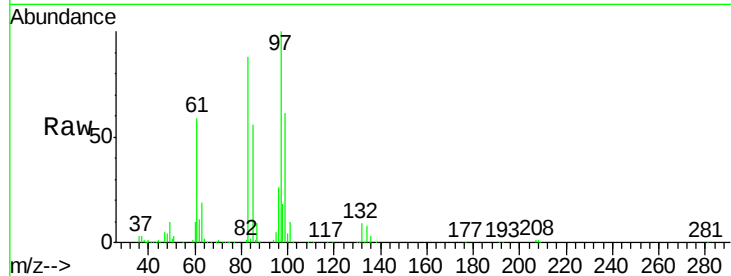
#55
 1,1,2-Trichloroethane
 Concen: 19.03 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN049287.D
 Acq: 16 Jun 2018 4:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0616WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		323225		
83	87.6	71.5	107.3		
85	56.2	47.0	70.4		
99	61.0	51.4	77.2		

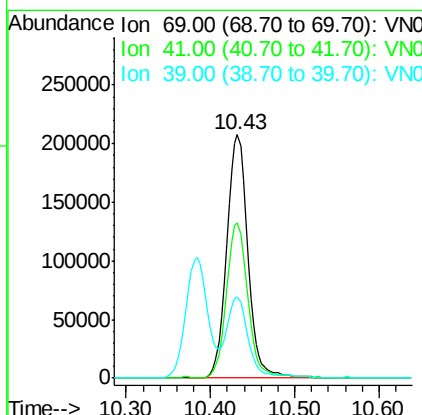
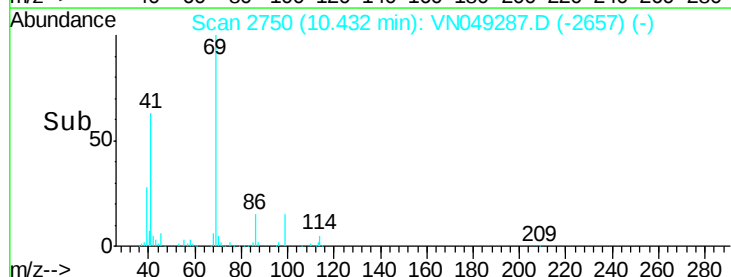
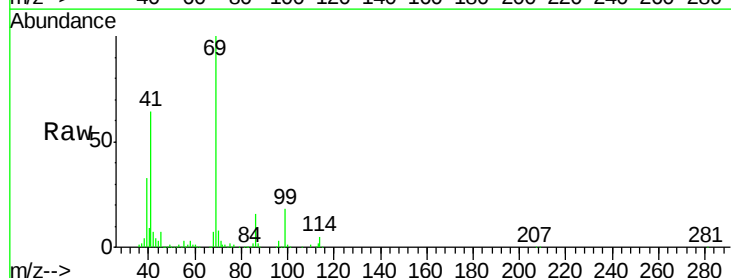
Manual Integrations
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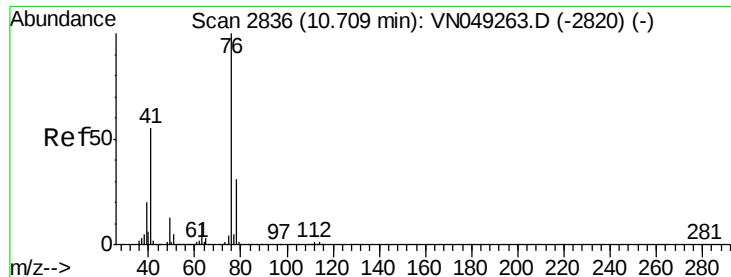
MMDadoda
 6/18/2018 3:16:18 PM



#56
 Ethyl methacrylate
 Concen: 18.47 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN049287.D
 Acq: 16 Jun 2018 4:17

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		361875		
41	63.7	58.4	87.6		
39	32.0	35.5	53.3#		





#57

1,3-Dichloropropane

Concen: 19.01 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

ClientSampleId :

VN0616WBSD02

Tot Ion: 76 Resp: 534944

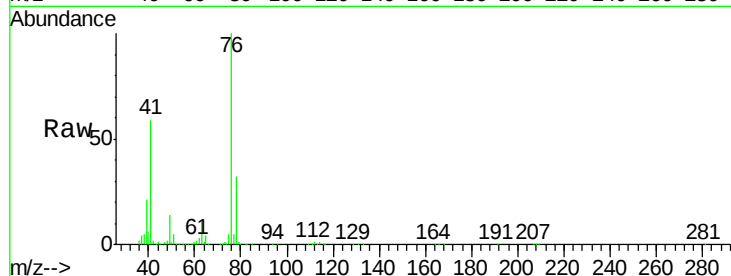
Ion Ratio Lower Upper

76 100

78 32.5 26.3 39.5

Manual Integrations
APPROVED

MMDadoda
6/18/2018 3:16:18 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

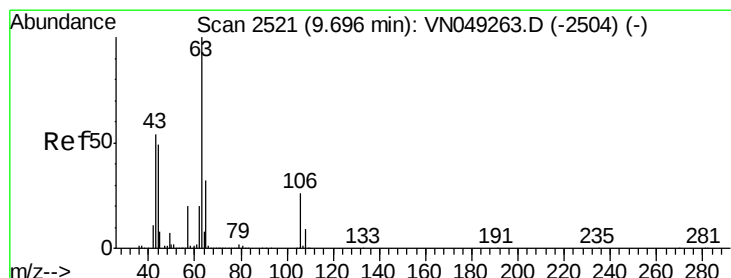
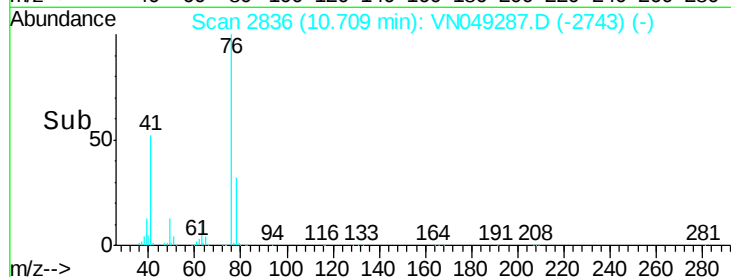
300000

200000

100000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 83.10 ug/l

RT: 9.70 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VN049287.D

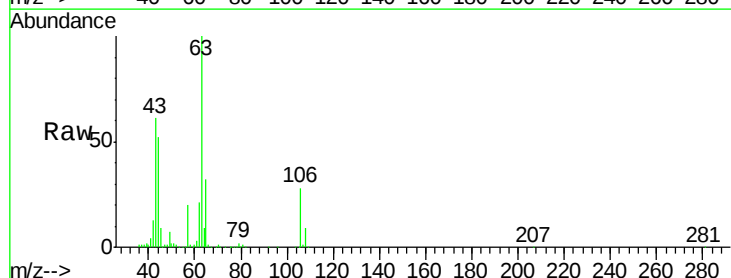
Acq: 16 Jun 2018 4:17

Tgt Ion: 63 Resp: 511008

Ion Ratio Lower Upper

63 100

106 27.1 19.4 29.2



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

300000

250000

200000

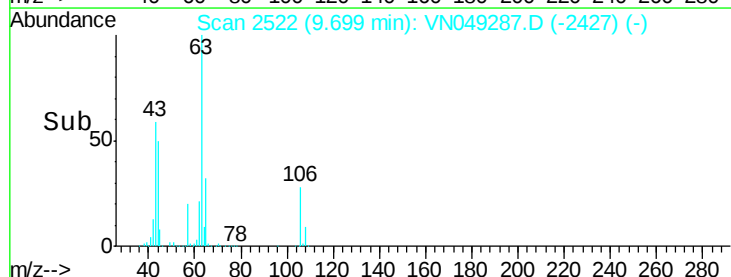
150000

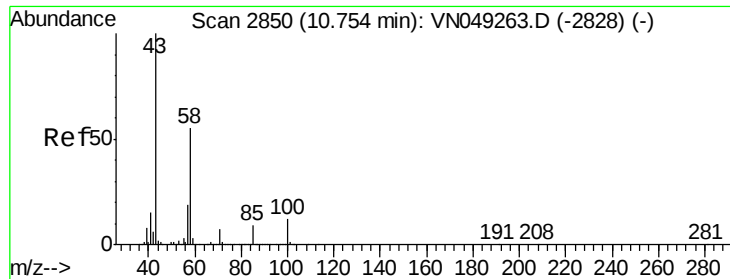
100000

50000

0

Time-->





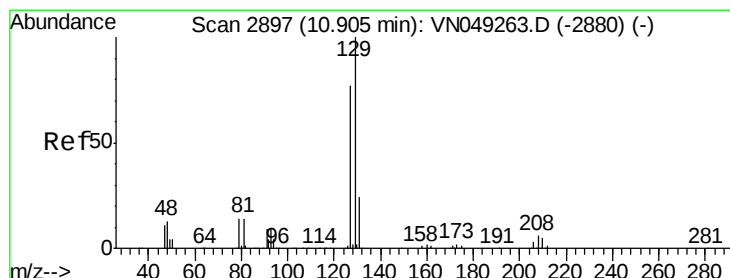
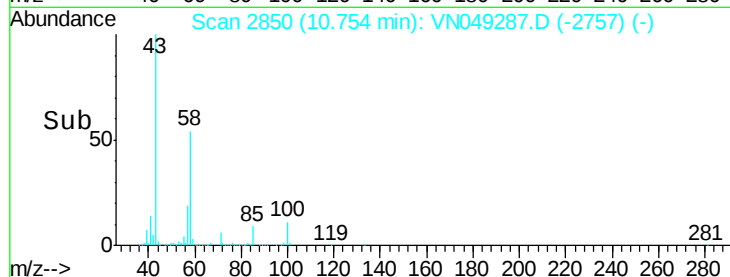
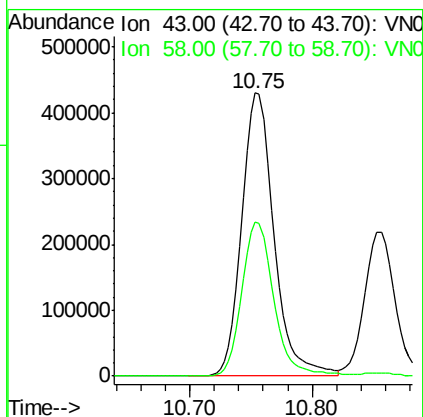
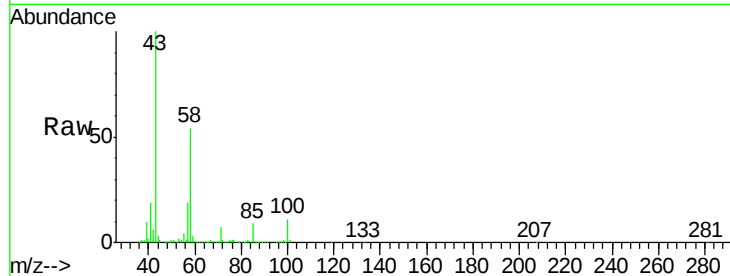
#59
2-Hexanone
Concen: 87.64 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.4	25.2	75.6

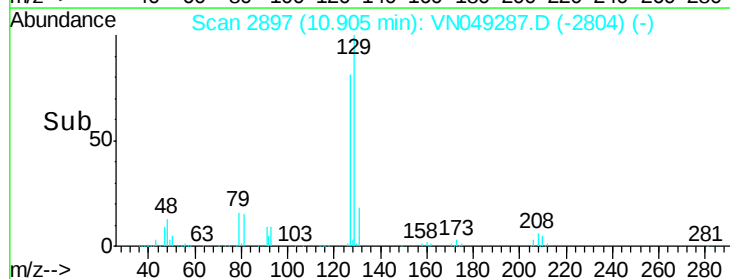
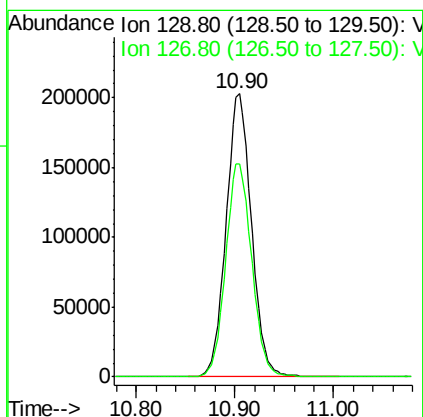
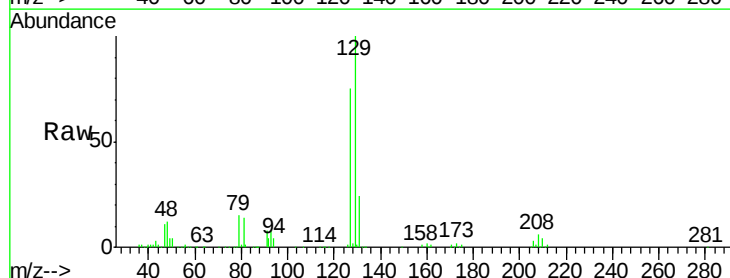
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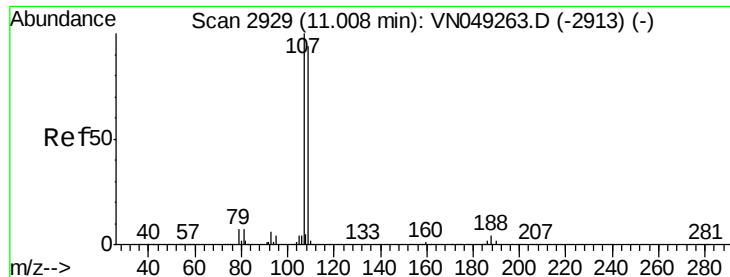
MMDadoda
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#60
Dibromochloromethane
Concen: 19.31 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.1	117.2





#61

1,2-Dibromoethane

Concen: 18.49 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

ClientSampleId :

VN0616WBSD02

Tot Ion: 107 Resp: 291920

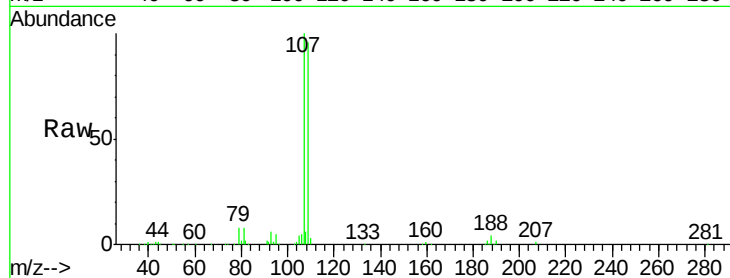
Ion Ratio Lower Upper

107 100

109 96.9 75.4 113.2

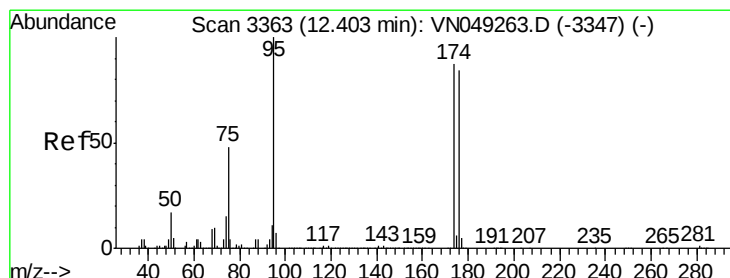
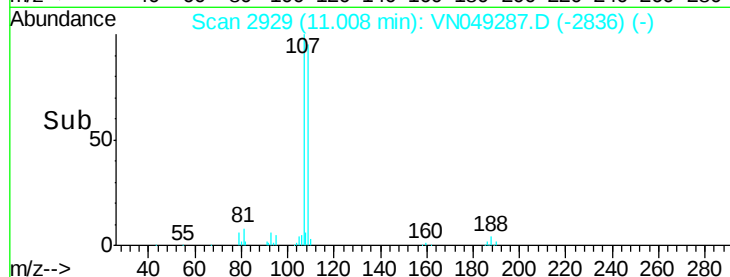
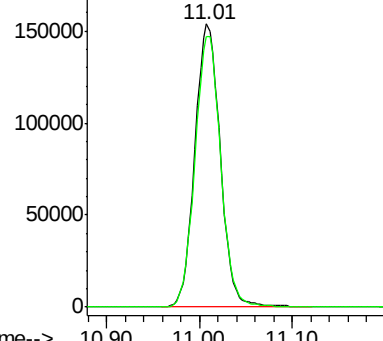
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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 47.60 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

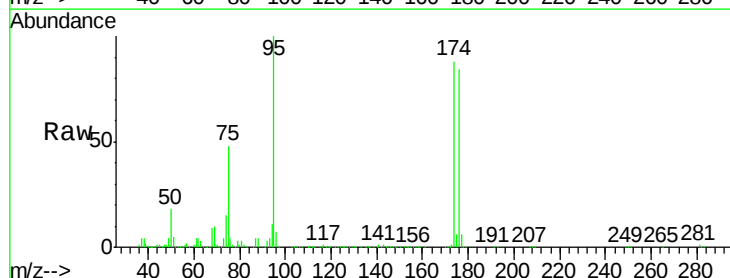
Tgt Ion: 95 Resp: 1071003

Ion Ratio Lower Upper

95 100

174 88.1 0.0 165.6

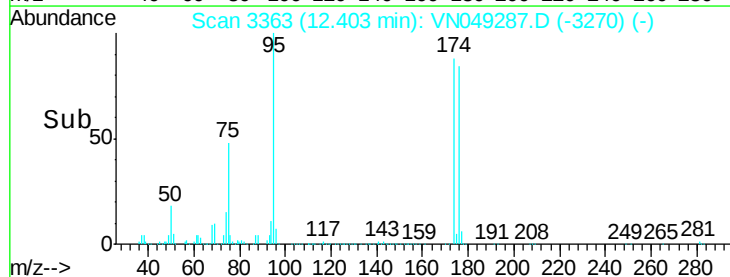
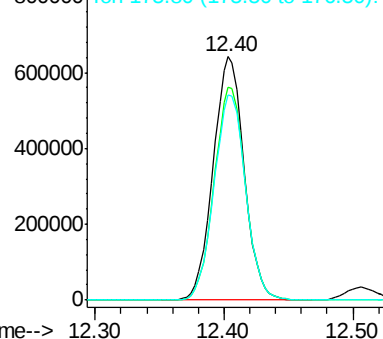
176 86.0 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





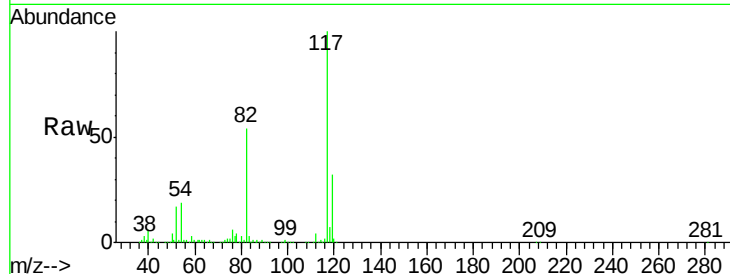
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.8	45.9	68.9
119	31.8	25.5	38.3

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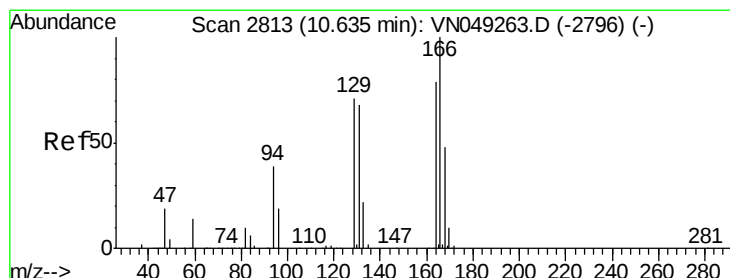
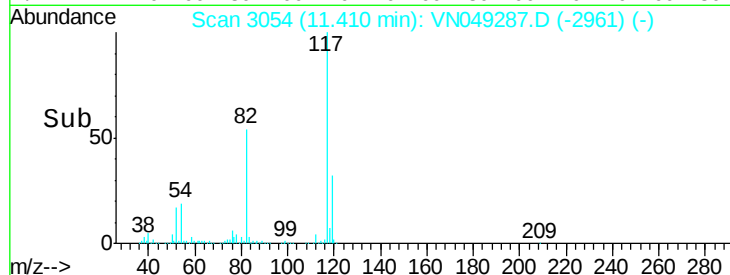
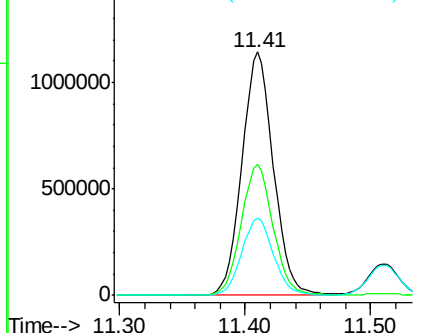


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 19.98 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.3	101.4	152.2
129	92.7	74.1	111.1
131	89.0	73.7	110.5

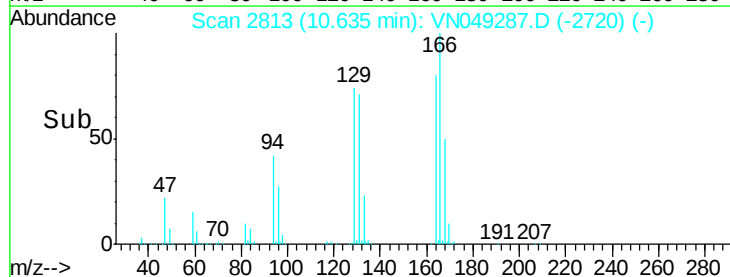
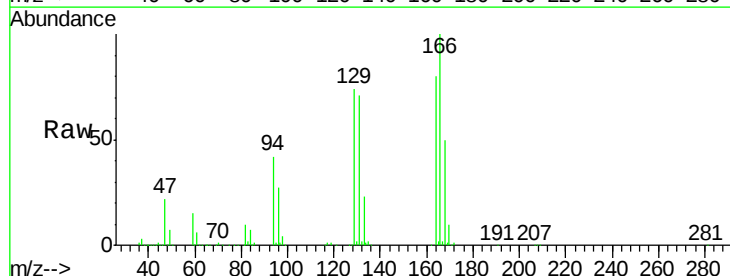
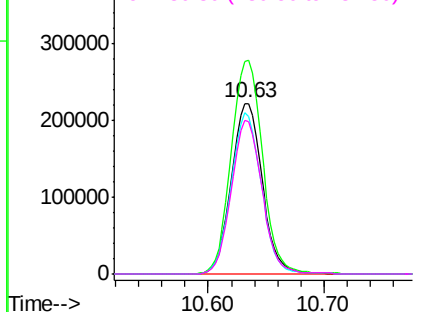
Abundance

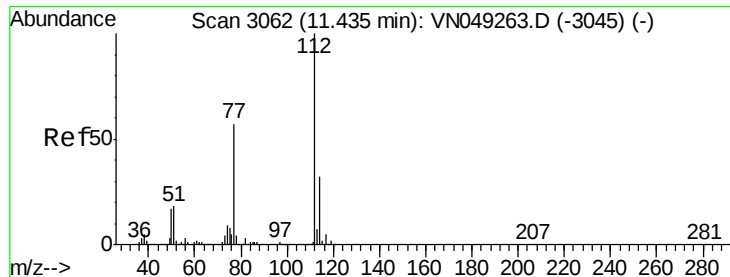
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 19.30 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

ClientSampleId :

VN0616WBSD02

Tot Ion:112 Resp: 993807

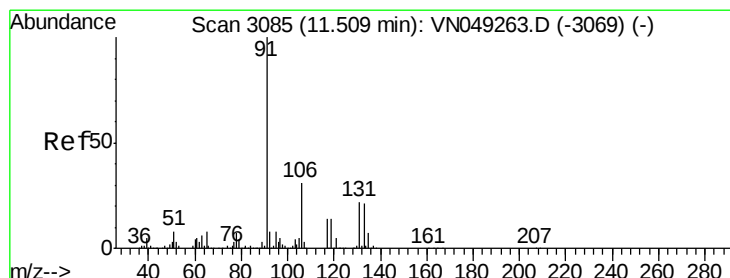
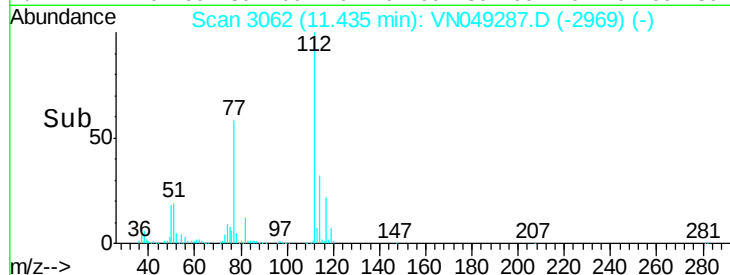
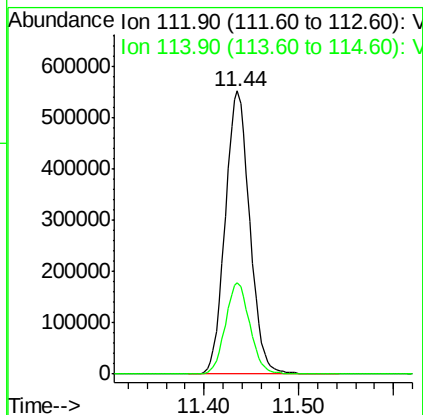
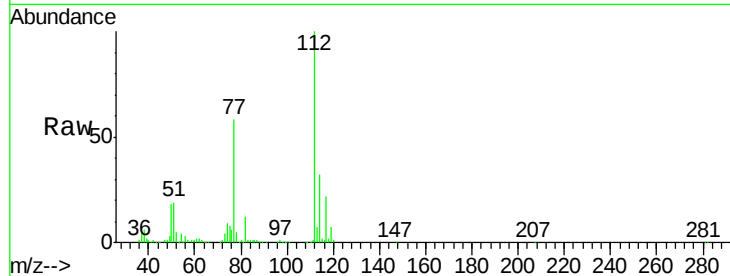
Ion Ratio Lower Upper

112 100

114 32.2 26.2 39.4

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#66

1,1,1,2-Tetrachloroethane

Concen: 19.15 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

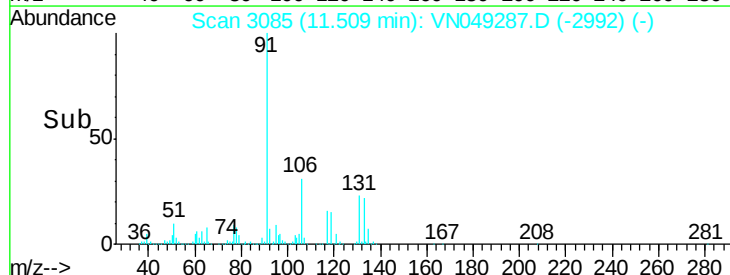
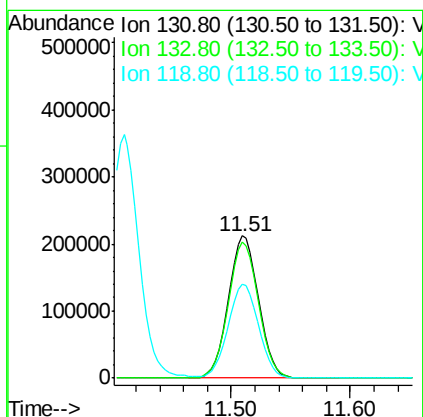
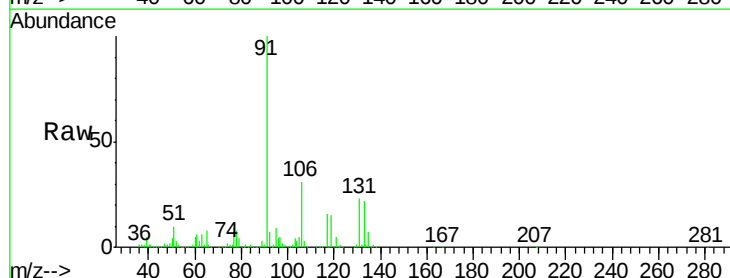
Tgt Ion:131 Resp: 371067

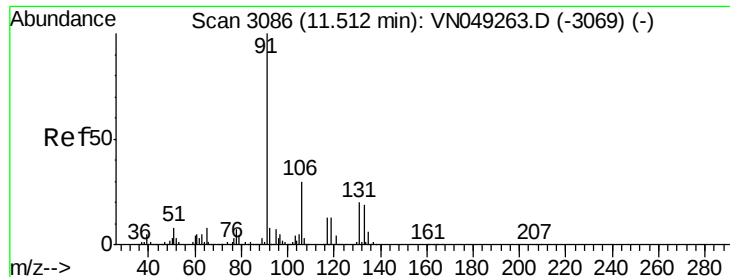
Ion Ratio Lower Upper

131 100

133 96.0 48.0 144.2

119 66.7 33.6 100.8





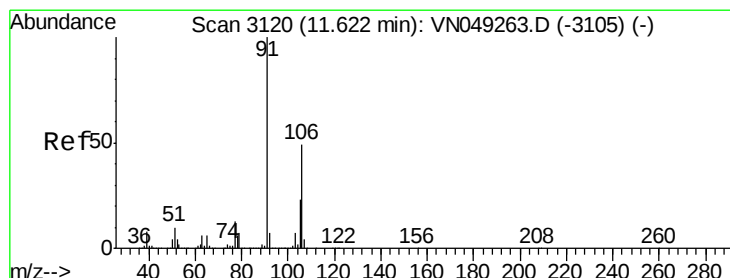
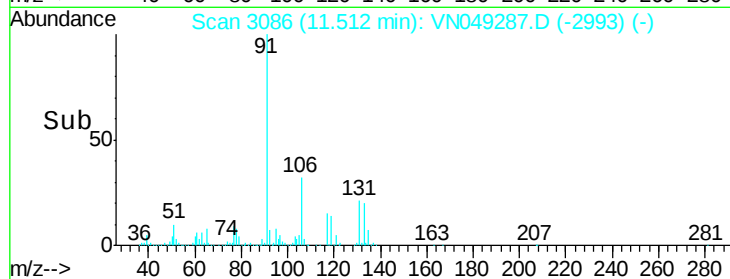
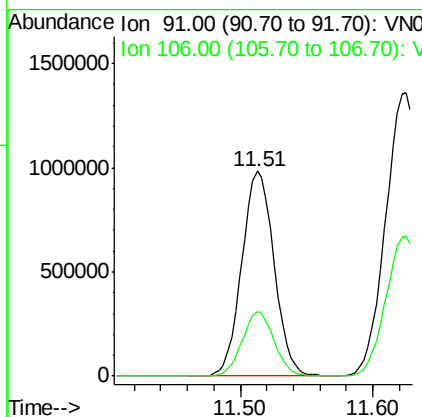
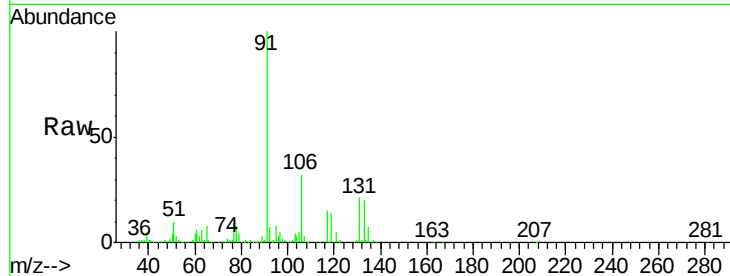
#67
Ethyl Benzene
Concen: 19.51 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBSD02

Tot Ion: 91 Resp: 1665915
Ion Ratio Lower Upper
91 100
106 31.6 23.9 35.9

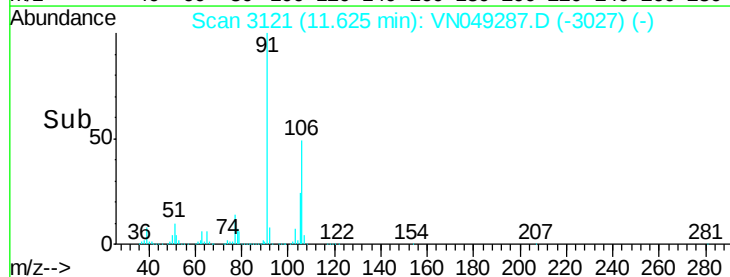
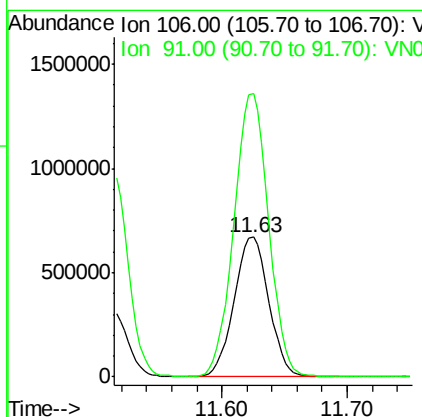
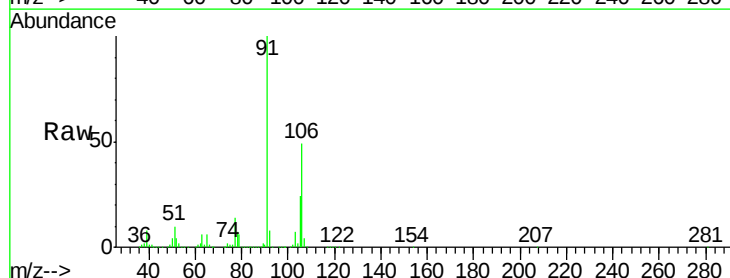
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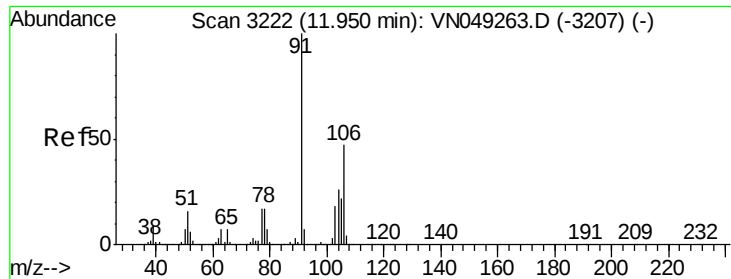
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#68
m/p-Xylenes
Concen: 40.04 ug/l
RT: 11.63 min Scan# 3121
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Tgt Ion: 106 Resp: 1283233
Ion Ratio Lower Upper
106 100
91 203.1 167.3 250.9





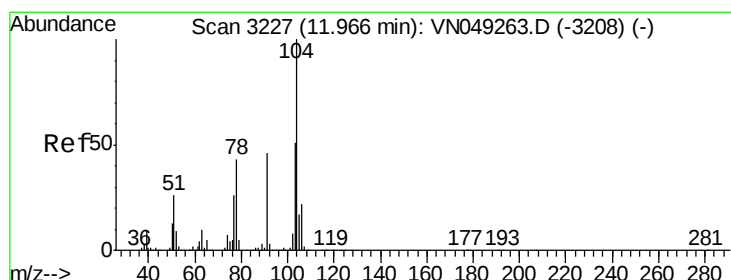
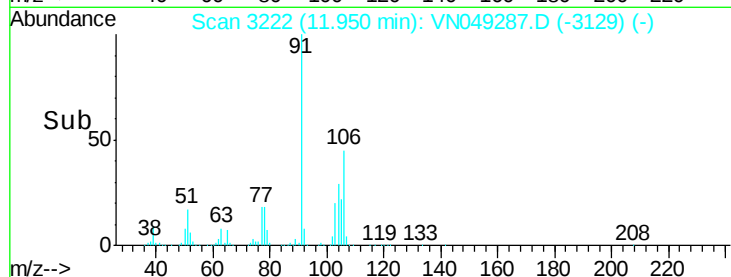
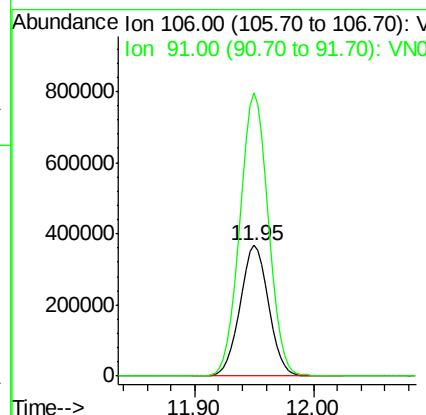
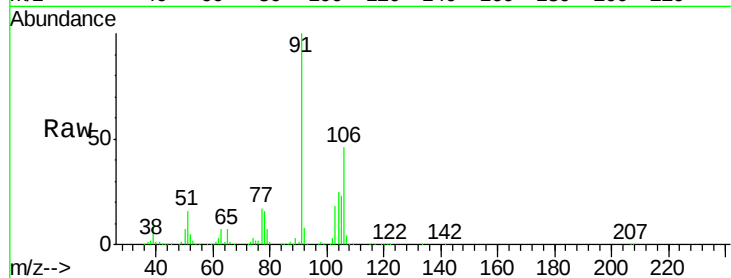
#69
o-Xylene
Concen: 19.80 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBSD02

Tot Ion:106 Resp: 611239
Ion Ratio Lower Upper
106 100
91 215.6 111.0 333.0

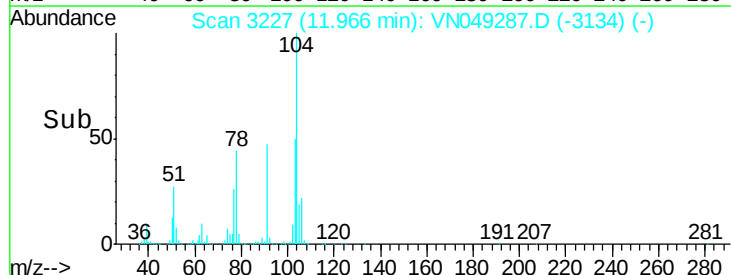
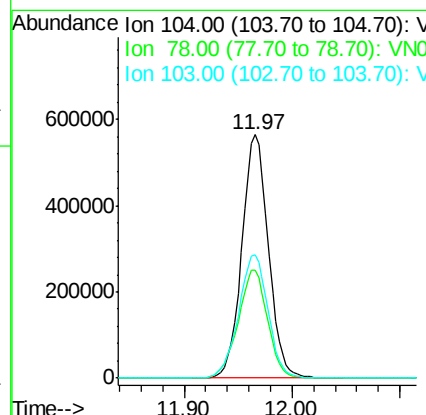
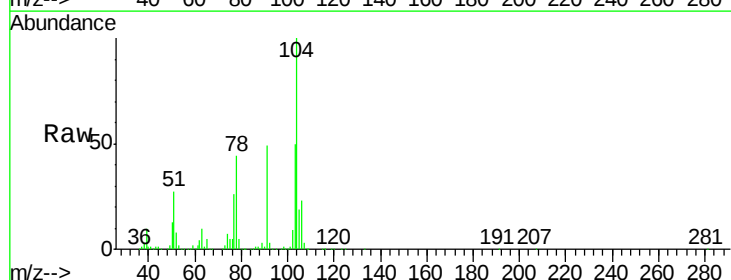
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#70
Styrene
Concen: 19.94 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Tgt Ion:104 Resp: 971320
Ion Ratio Lower Upper
104 100
78 49.1 41.6 62.4
103 56.1 45.4 68.2





#71

Bromoform

Concen: 18.51 ug/l

RT: 12.13 min Scan# 3278

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

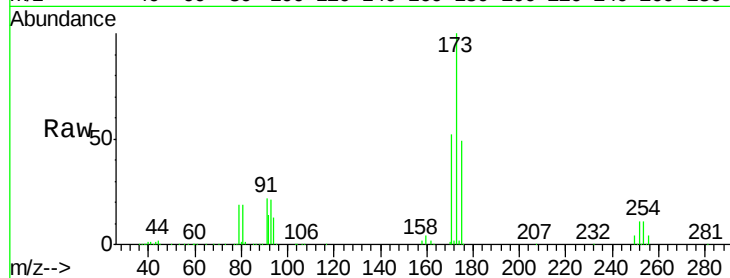
ClientSampleId :

VN0616WBSD02

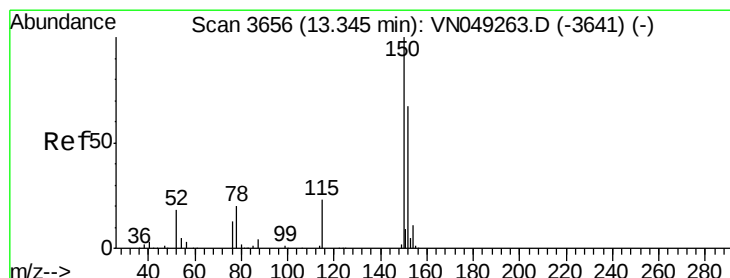
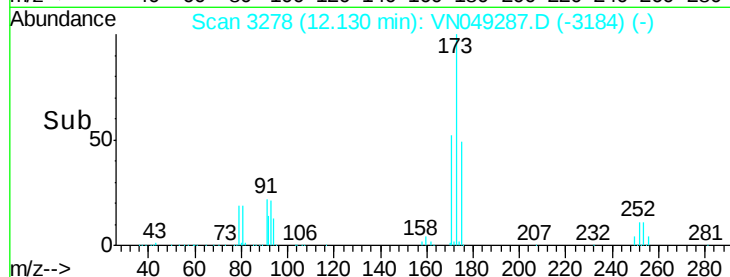
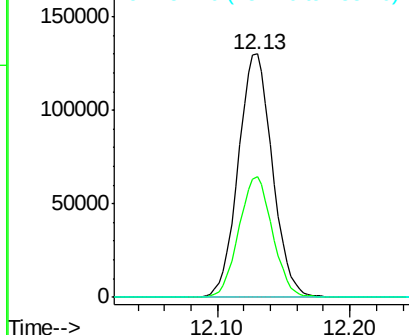
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.5	73.5
254	0.2	0.1	0.1#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

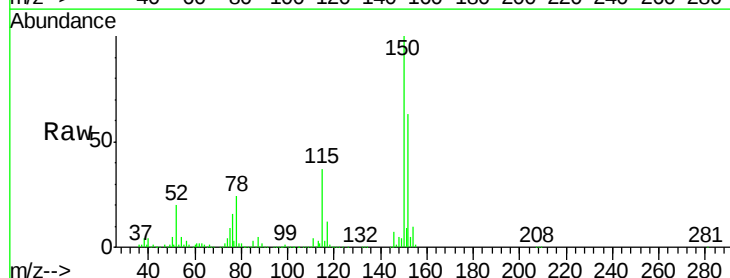
RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

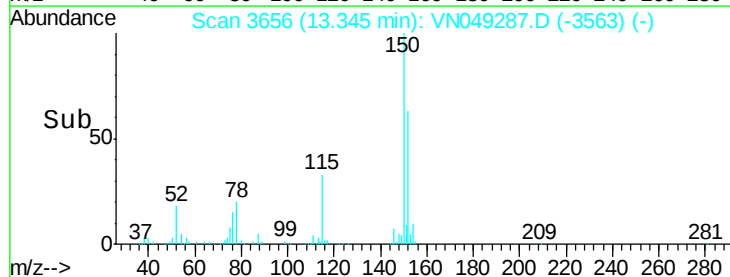
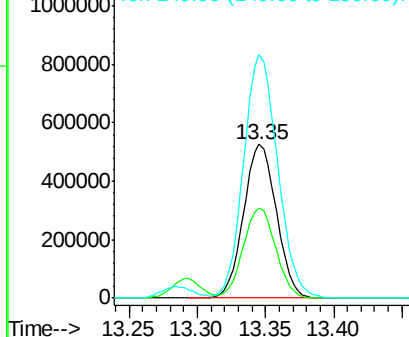
Lab File: VN049287.D

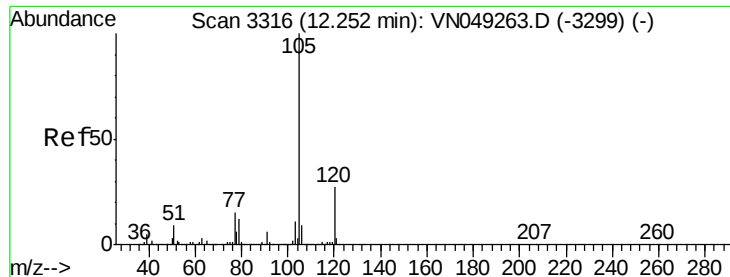
Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.3	28.7	86.1
150	164.6	0.0	351.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.46 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

ClientSampleId :

VN0616WBSD02

Tot Ion:105 Resp: 1655323

Ion Ratio Lower Upper

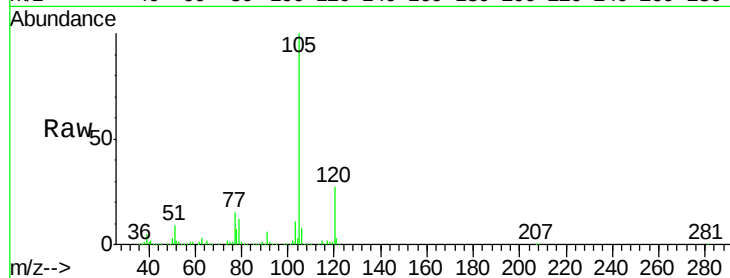
105 100

120 26.6 12.8 38.3

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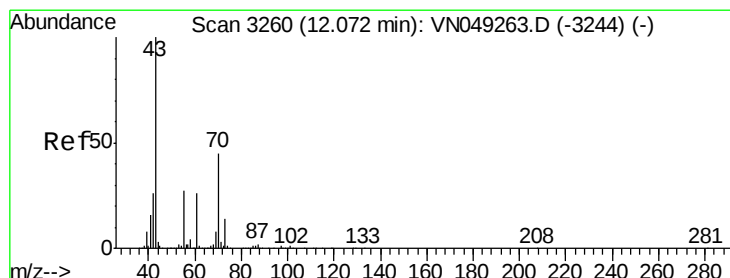
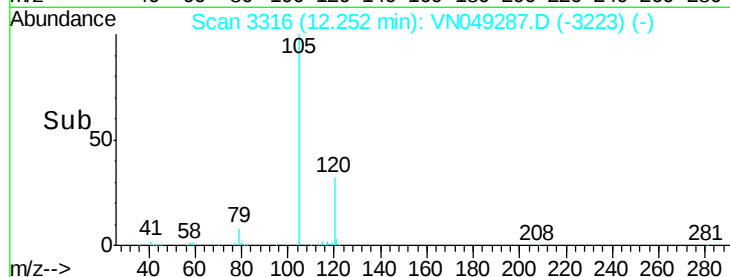
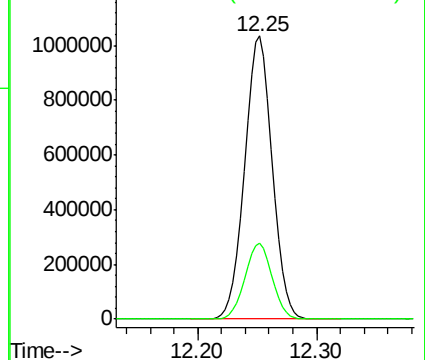
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.12 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Tgt Ion: 43 Resp: 342308

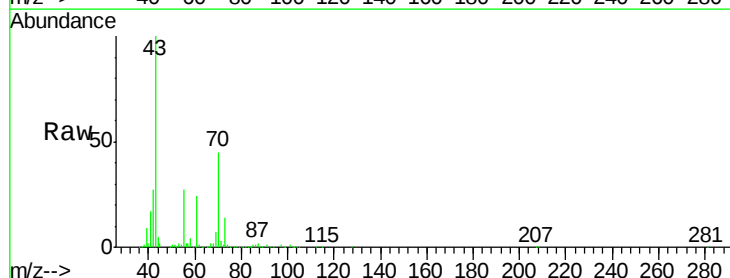
Ion Ratio Lower Upper

43 100

70 44.6 30.3 45.5

55 27.6 19.4 29.2

61 24.6 17.8 26.6

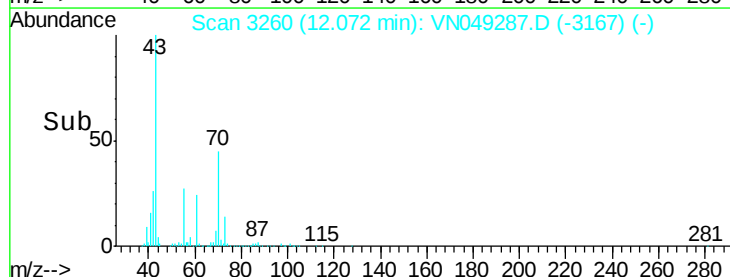
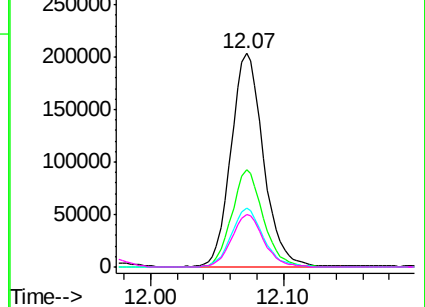


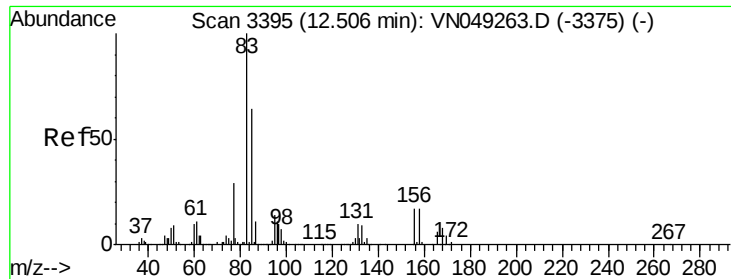
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 22.08 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

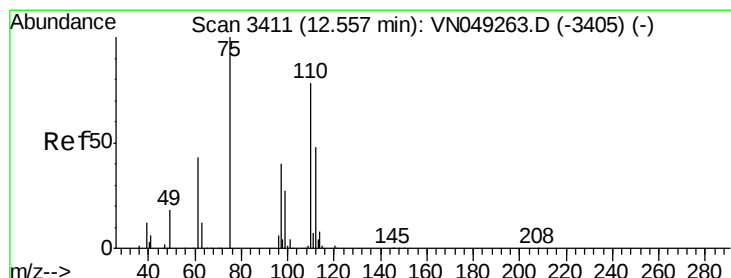
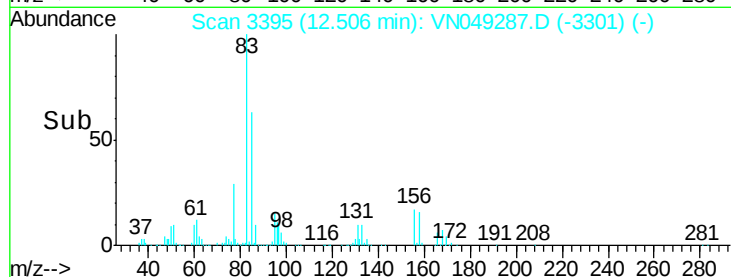
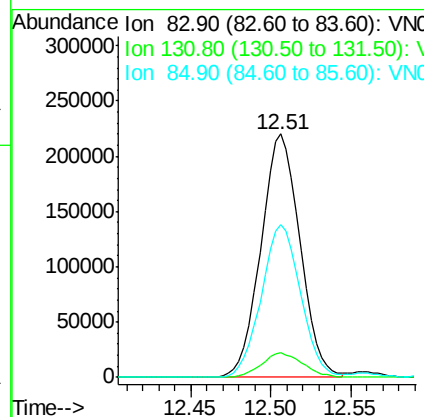
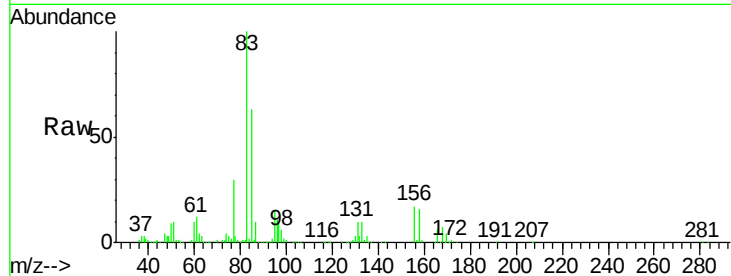
ClientSampleId :

VN0616WBSD02

Tot Ion:	83	Resp:	370173
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.0	15.0
85	63.2	32.0	96.0

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#76

1,2,3-Trichloropropane

Concen: 20.10 ug/l m

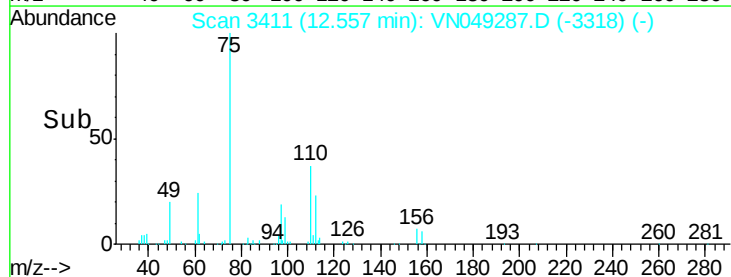
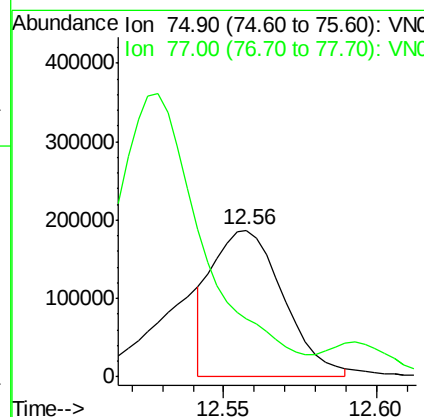
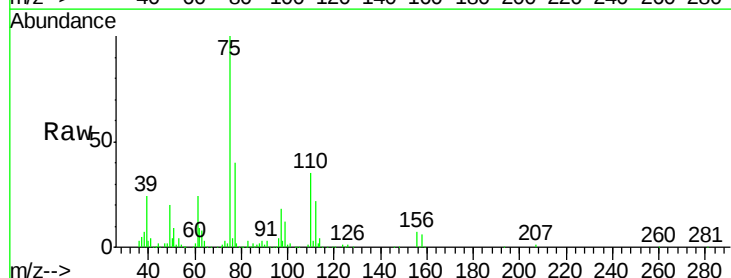
RT: 12.56 min Scan# 3411

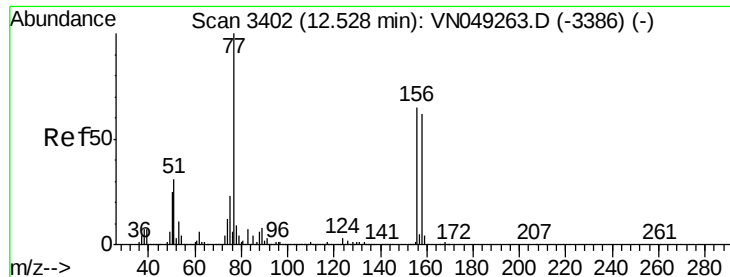
Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Tgt Ion:	75	Resp:	301236
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.00 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

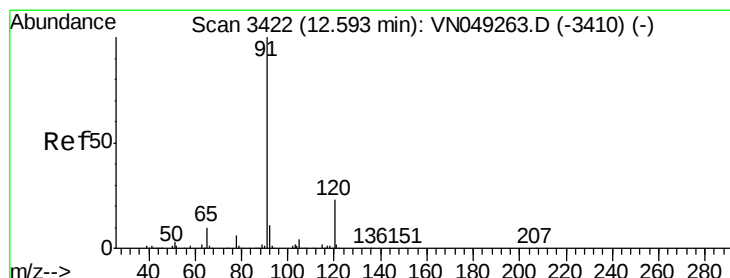
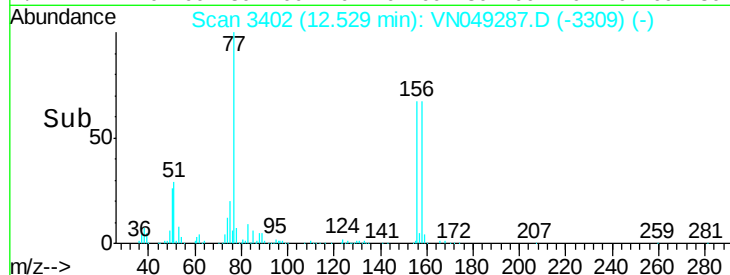
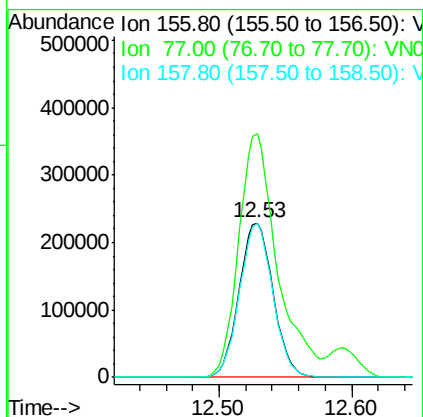
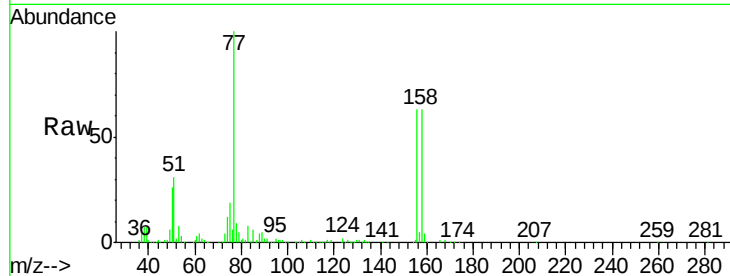
ClientSampleId :

VN0616WBSD02

Tot Ion:	156	Resp:	407470
Ion Ratio	Lower	Upper	
156	100		
77	179.7	100.8	302.4
158	97.4	49.3	147.9

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#78

n-propylbenzene

Concen: 21.19 ug/l

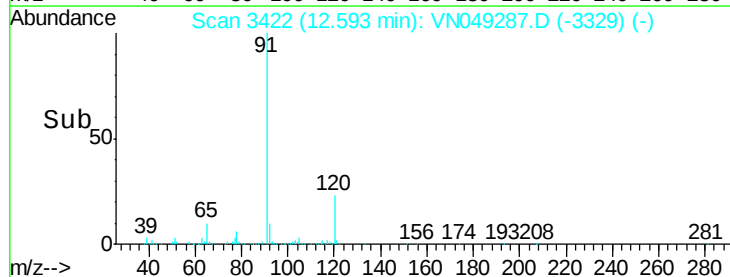
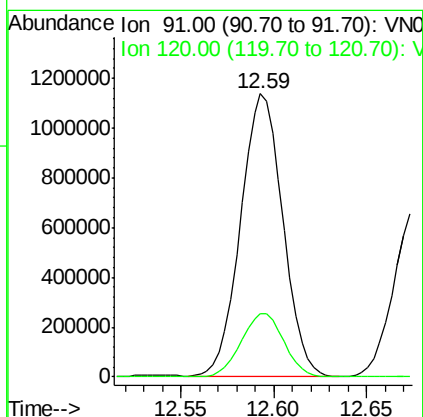
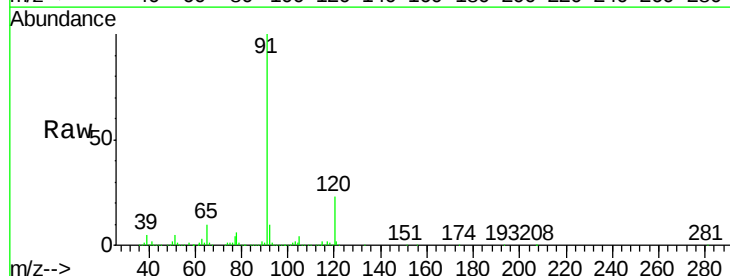
RT: 12.59 min Scan# 3422

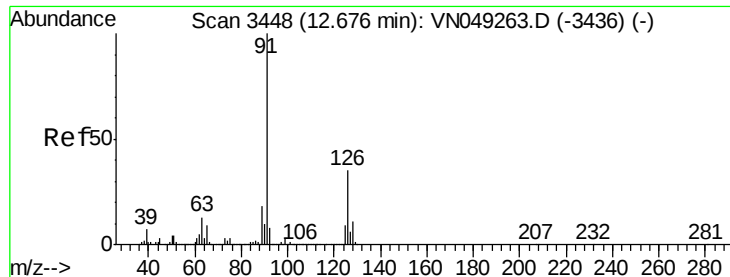
Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Tgt Ion:	91	Resp:	1794776
Ion Ratio	Lower	Upper	
91	100		
120	22.8	11.2	33.5





#79

2-Chlorotoluene

Concen: 21.00 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

ClientSampleId :

VN0616WBSD02

Tot Ion: 91 Resp: 1126910

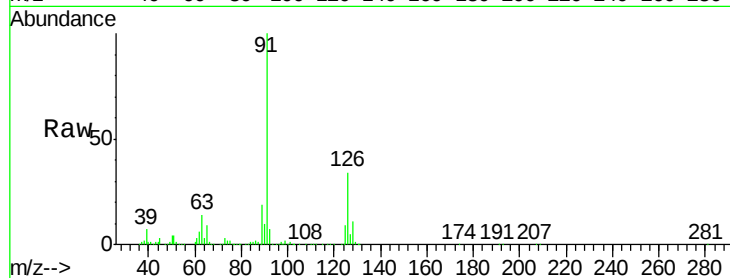
Ion Ratio Lower Upper

91 100

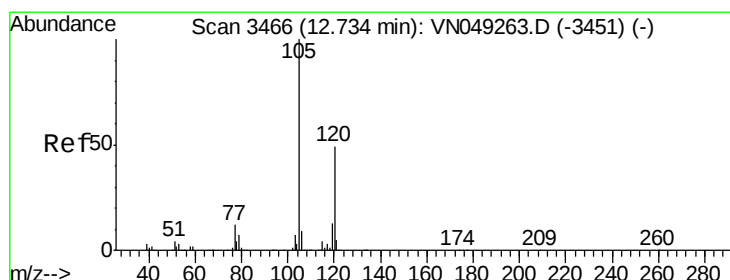
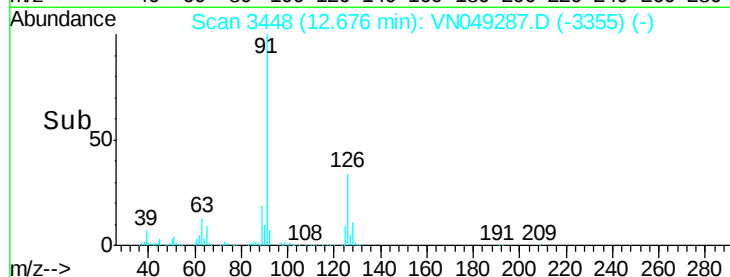
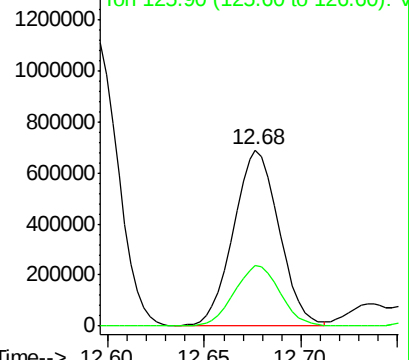
126 34.8 16.6 49.8

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Abundance Ion 91.00 (90.70 to 91.70): VN049287.D (-3355) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.67 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049287.D

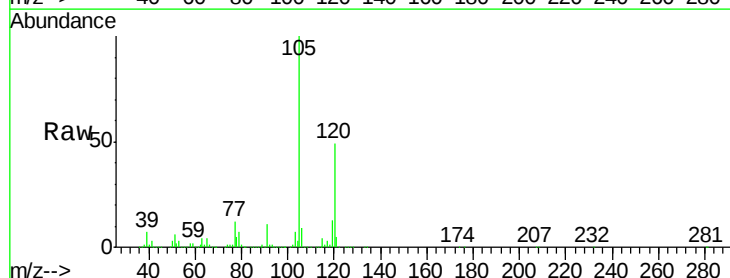
Acq: 16 Jun 2018 4:17

Tgt Ion: 105 Resp: 1313788

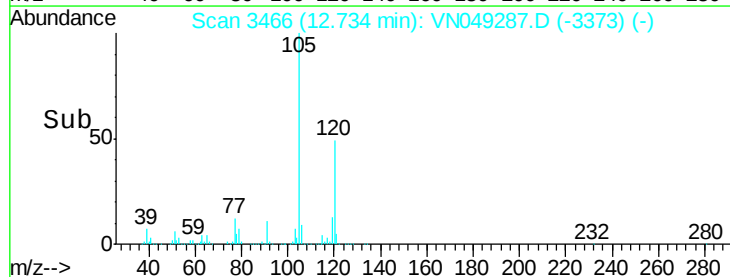
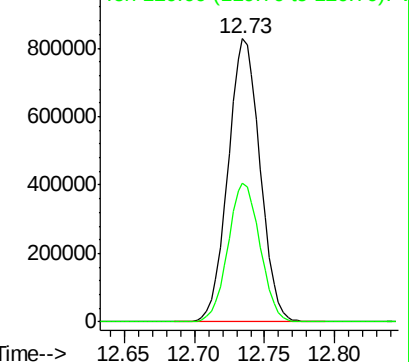
Ion Ratio Lower Upper

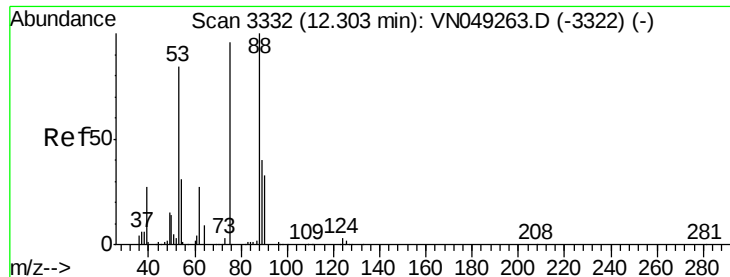
105 100

120 49.1 23.5 70.5



Abundance Ion 105.00 (104.70 to 105.70): VN049287.D (-3373) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 16.68 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

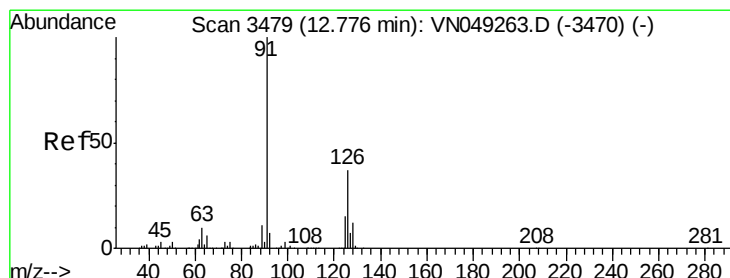
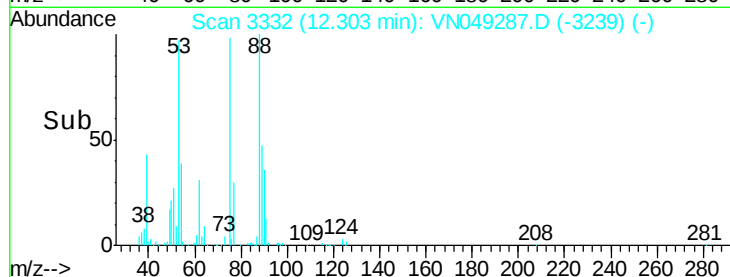
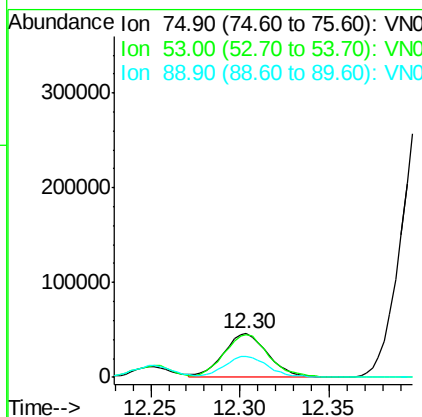
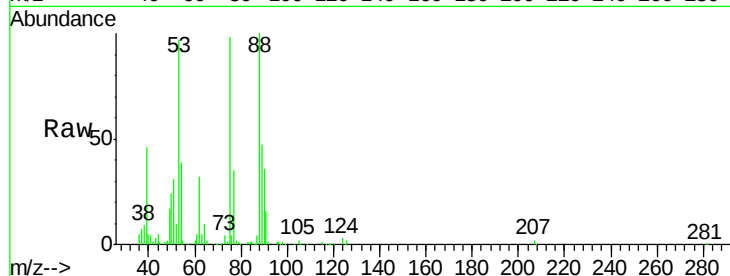
ClientSampleId :

VN0616WBSD02

Tot Ion:	75	Resp:	79105
Ion	Ratio	Lower	Upper
75	100		
53	100.0	82.7	124.1
89	48.0	36.5	54.7

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#82

4-Chlorotoluene

Concen: 20.68 ug/l

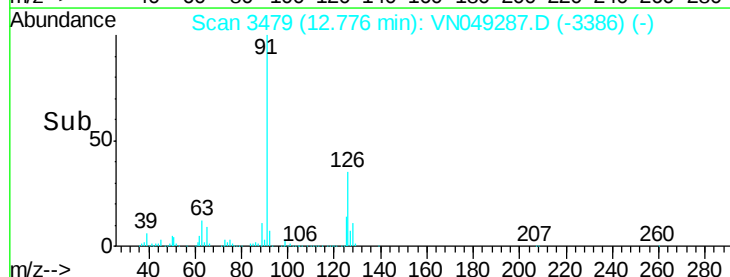
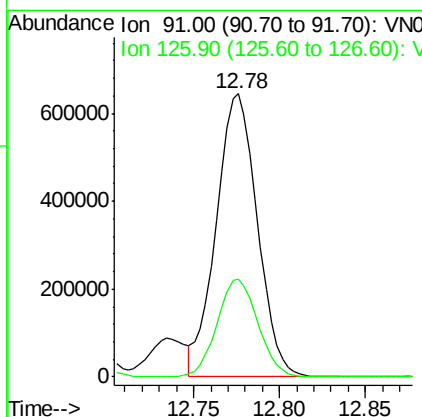
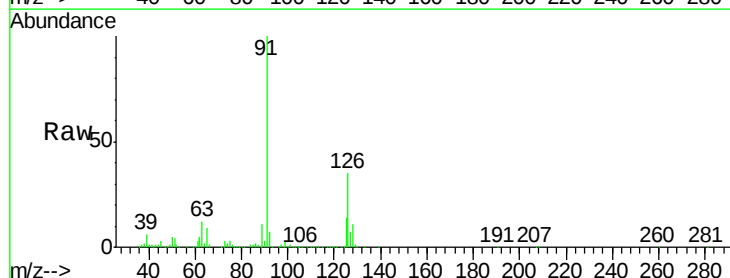
RT: 12.78 min Scan# 3479

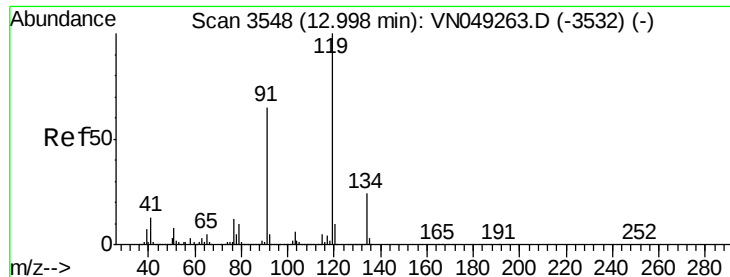
Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Tgt Ion:	91	Resp:	1070447
Ion	Ratio	Lower	Upper
91	100		
126	34.5	16.4	49.1





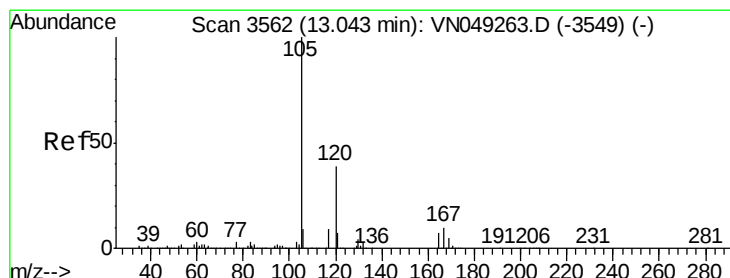
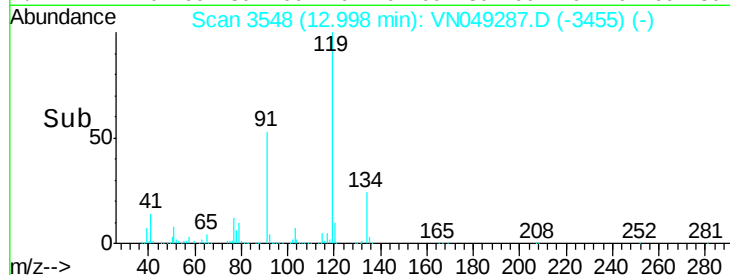
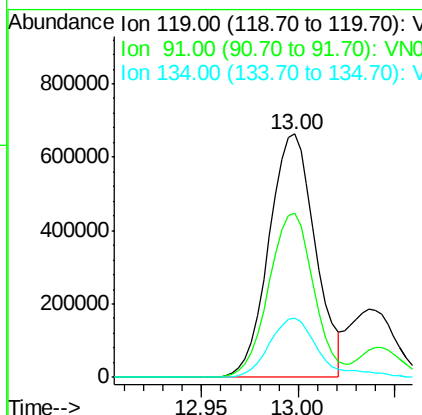
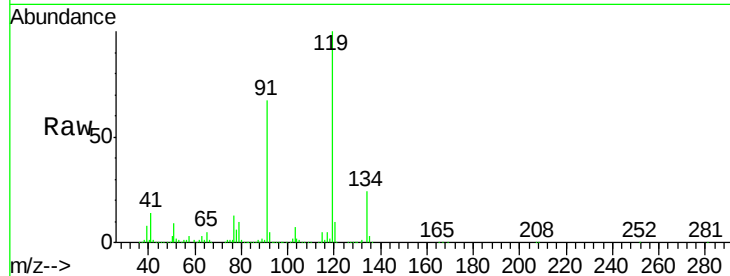
#83
 tert-Butylbenzene
 Concen: 20.61 ug/l
 RT: 13.00 min Scan# 3548
 Delta R.T. 0.00 min
 Lab File: VN049287.D
 Acq: 16 Jun 2018 4:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0616WBSD02

Tot Ion:119 Resp: 1106913
 Ion Ratio Lower Upper
 119 100
 91 65.6 33.7 101.0
 134 26.0 12.9 38.6

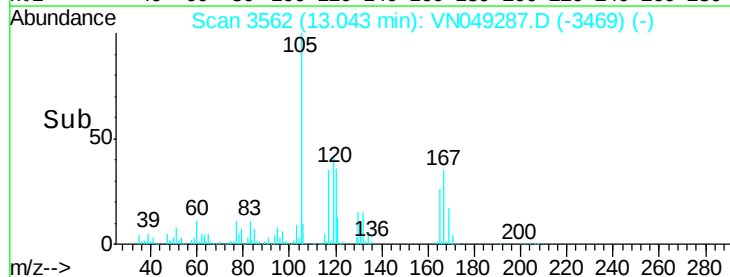
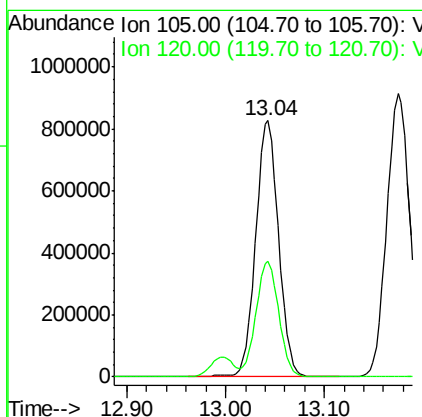
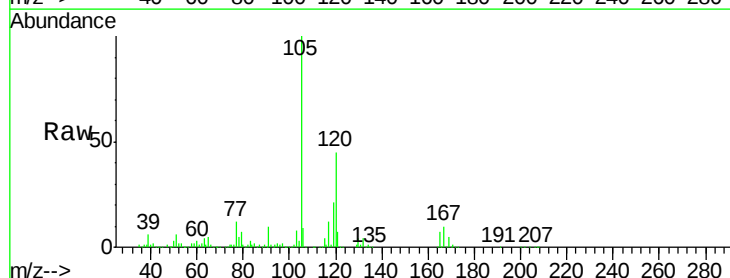
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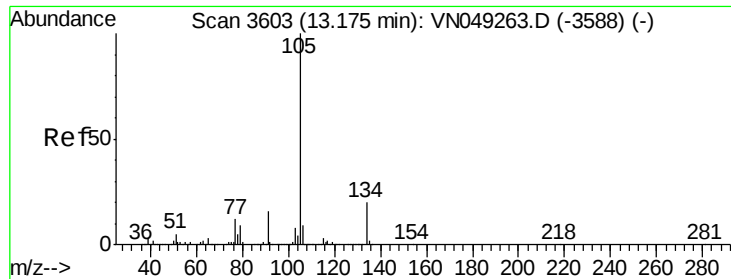
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.88 ug/l
 RT: 13.04 min Scan# 3562
 Delta R.T. 0.00 min
 Lab File: VN049287.D
 Acq: 16 Jun 2018 4:17

Tgt Ion:105 Resp: 1317880
 Ion Ratio Lower Upper
 105 100
 120 44.9 22.2 66.6





#85

sec-Butylbenzene

Concen: 20.51 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

ClientSampleId :

VN0616WBSD02

Tot Ion:105 Resp: 1466164

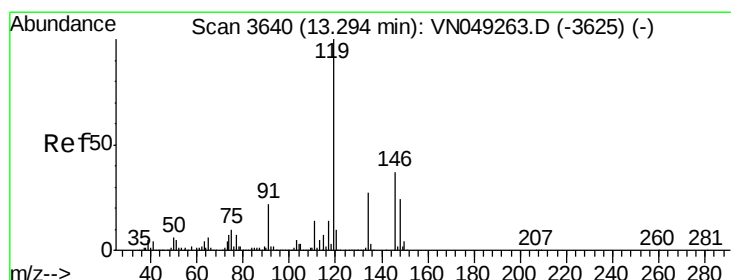
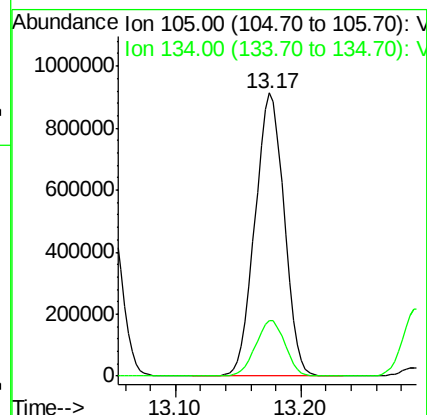
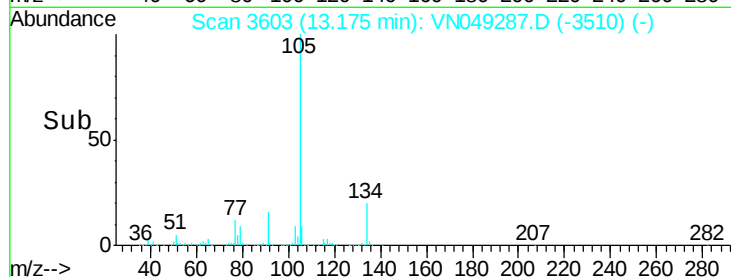
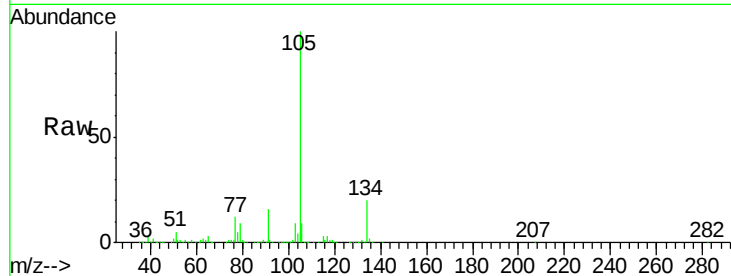
Ion Ratio Lower Upper

105 100

134 19.9 9.8 29.3

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#86

p-Isopropyltoluene

Concen: 20.53 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

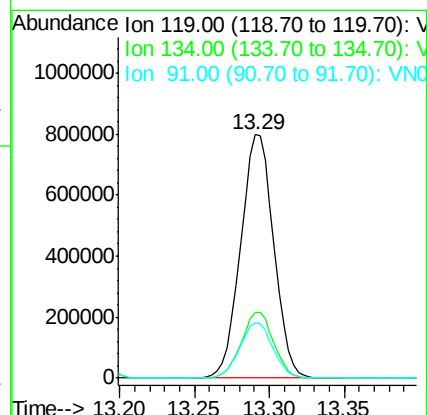
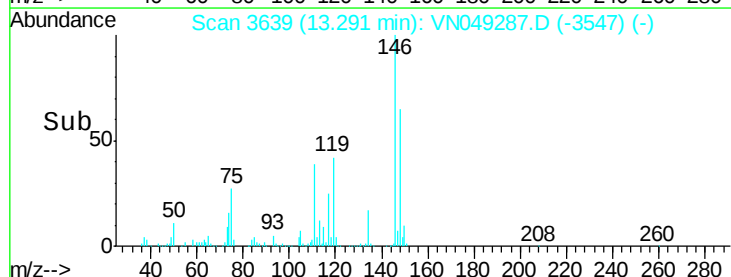
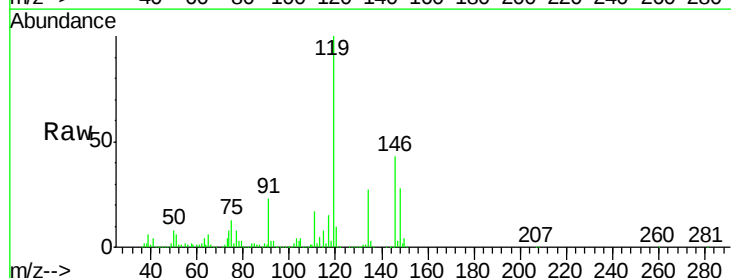
Tgt Ion:119 Resp: 1226176

Ion Ratio Lower Upper

119 100

134 26.7 12.9 38.6

91 22.7 12.1 36.3





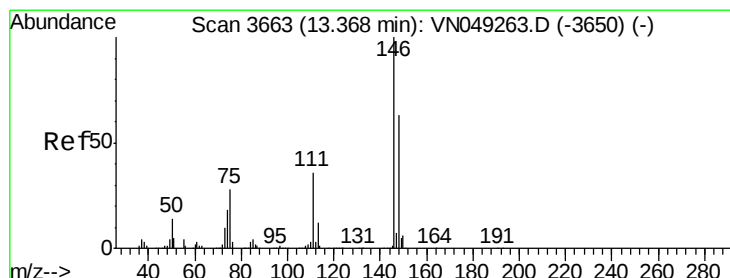
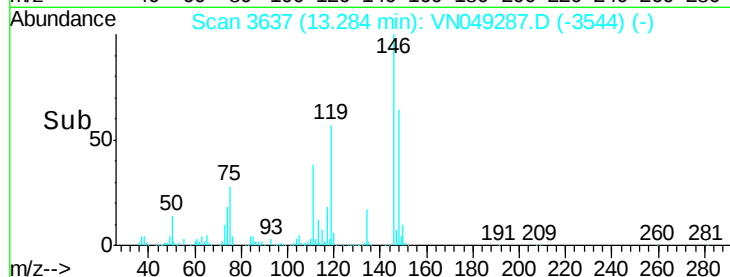
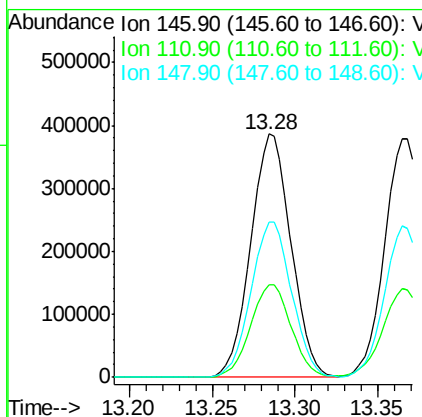
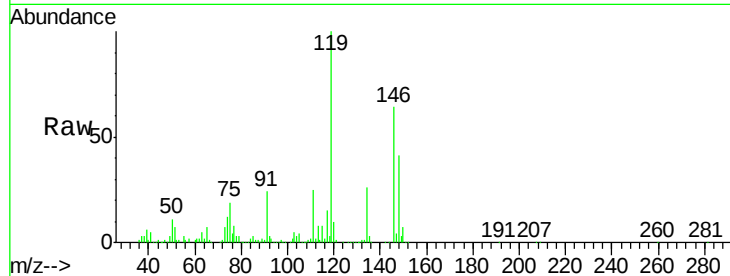
#87
 1,3-Dichlorobenzene
 Concen: 19.44 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN049287.D
 Acq: 16 Jun 2018 4:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0616WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.9	59.6
148	64.5	32.1	96.5

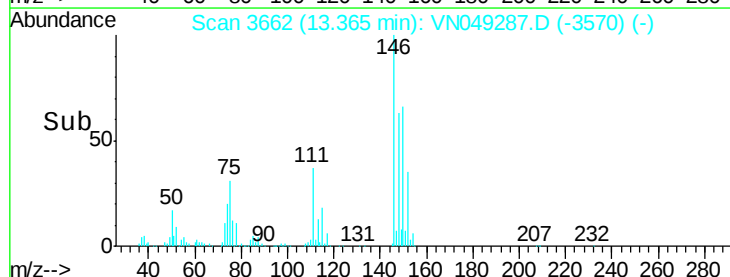
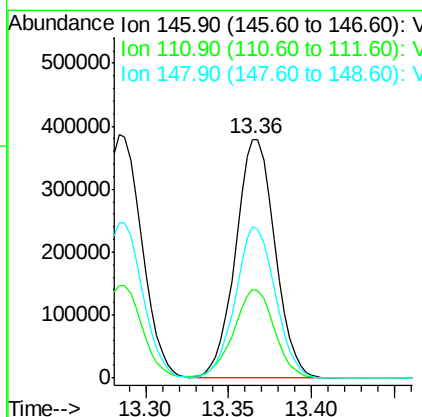
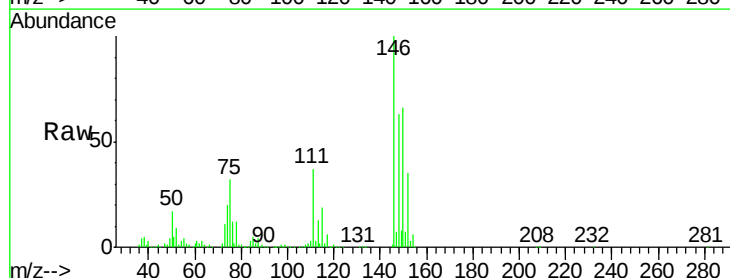
Manual Integrations
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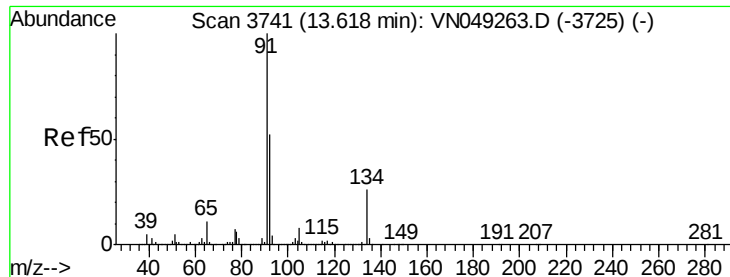
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#88
 1,4-Dichlorobenzene
 Concen: 18.89 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VN049287.D
 Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.1	57.1
148	64.0	32.0	96.2





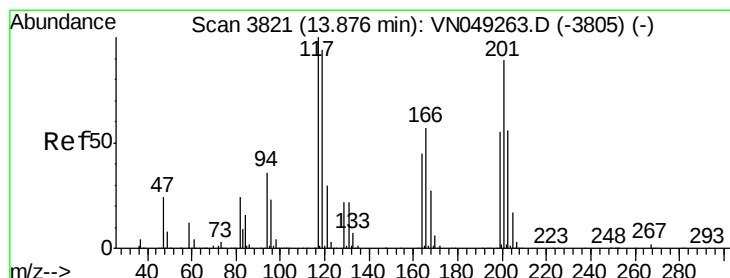
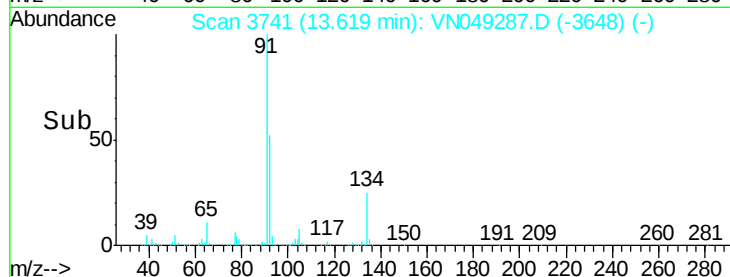
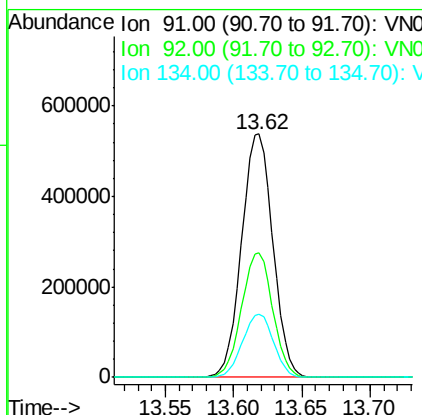
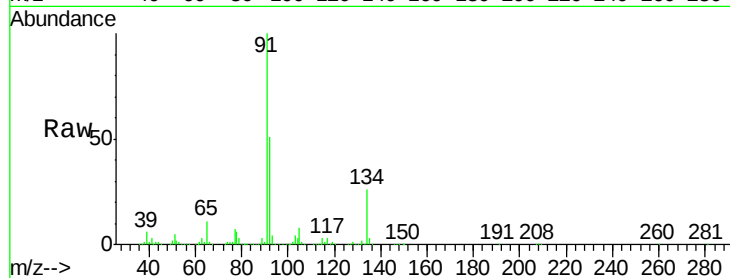
#89
n-Butylbenzene
Concen: 18.34 ug/l
RT: 13.62 min Scan# 3741
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.0	25.1	75.4
134	26.0	12.0	36.0

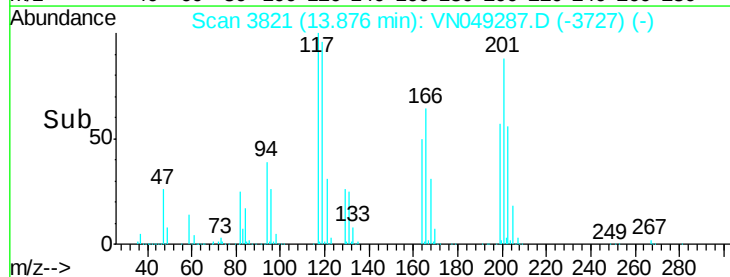
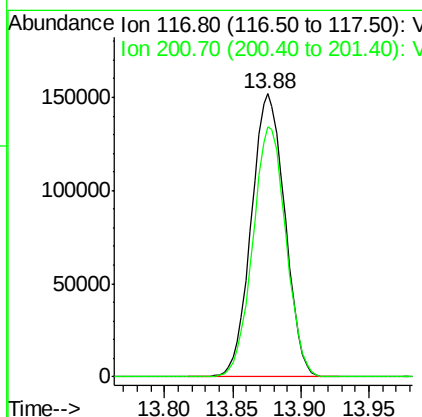
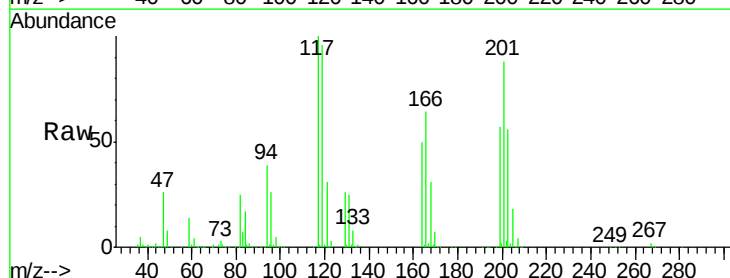
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#90
Hexachloroethane
Concen: 22.03 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN049287.D
Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Lower	Upper
117	100		
201	87.2	40.1	120.2





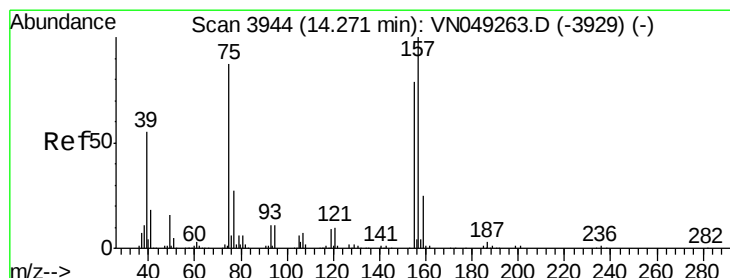
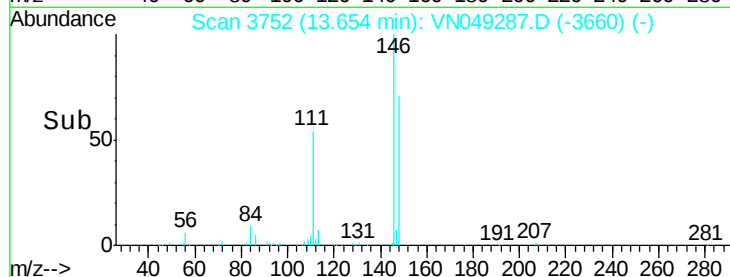
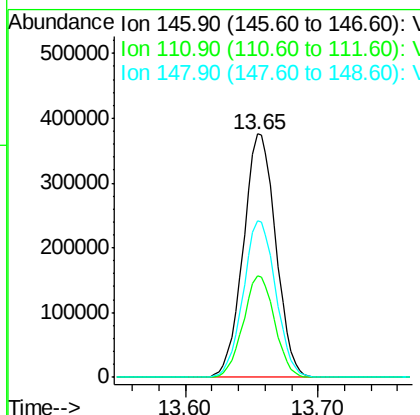
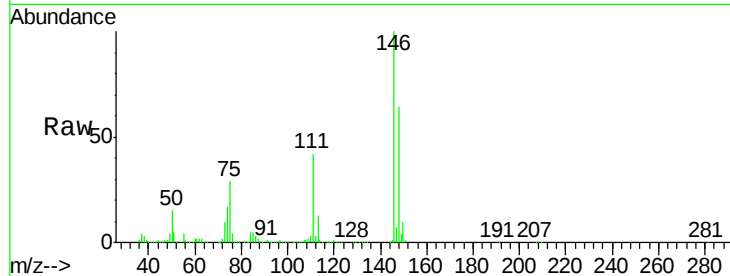
#91
 1,2-Dichlorobenzene
 Concen: 19.43 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. -0.00 min
 Lab File: VN049287.D
 Acq: 16 Jun 2018 4:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0616WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
146	100	638683		
111	40.1		20.8	62.2
148	64.2		32.0	96.2

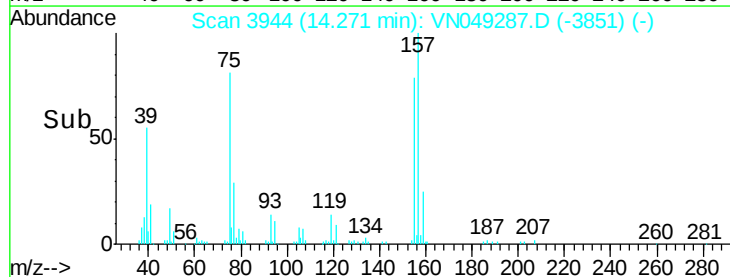
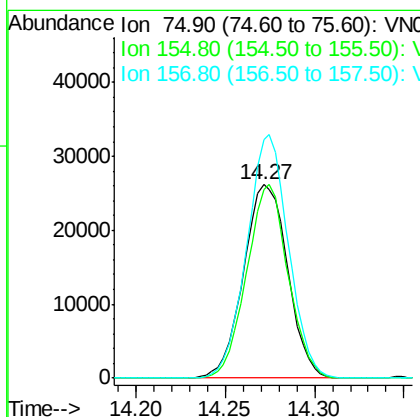
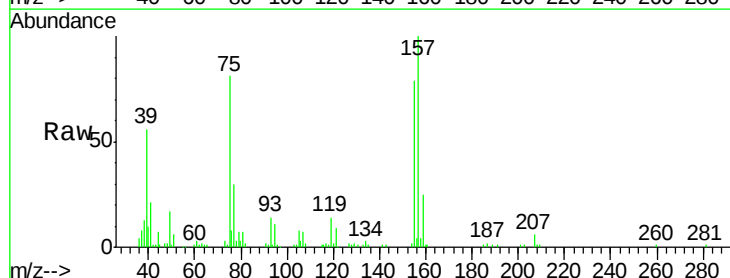
Manual Integrations
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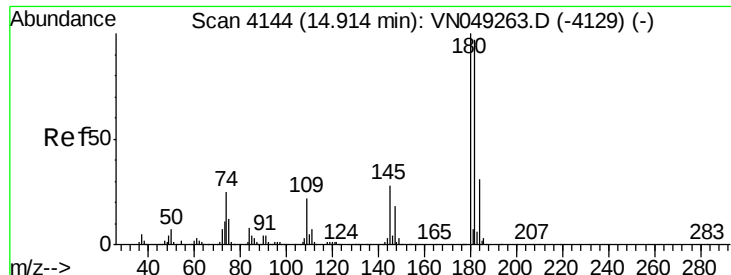
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 16.85 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN049287.D
 Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	45233		
155	93.7		38.8	116.3
157	118.5		51.0	153.1





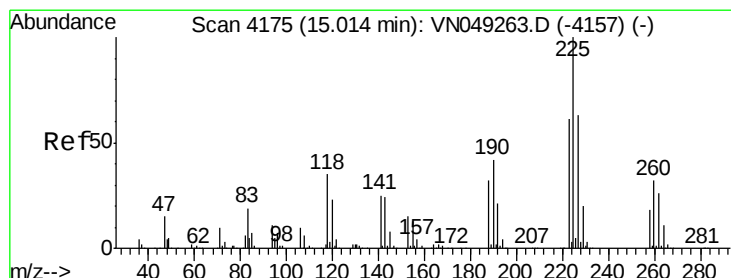
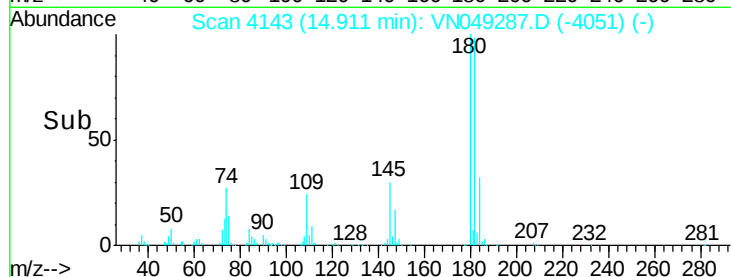
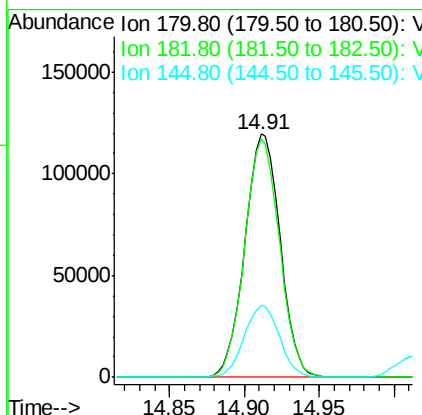
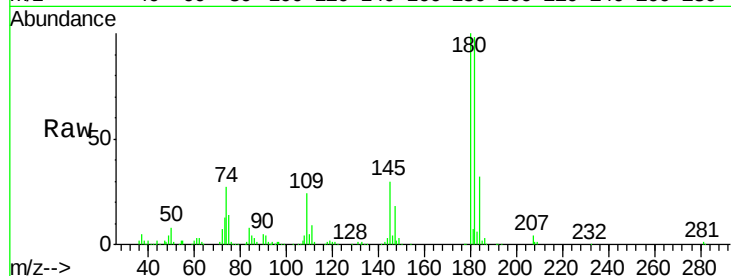
#93
 1,2,4-Trichlorobenzene
 Concen: 16.55 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN049287.D
 Acq: 16 Jun 2018 4:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0616WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	196486		
182	96.9	46.9	140.8	
145	29.6	14.7	44.1	

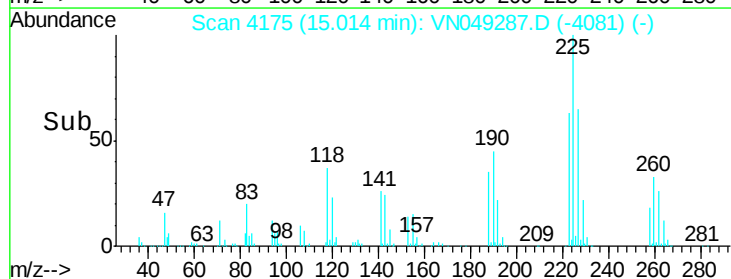
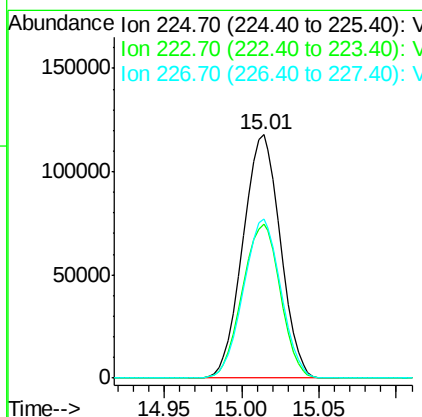
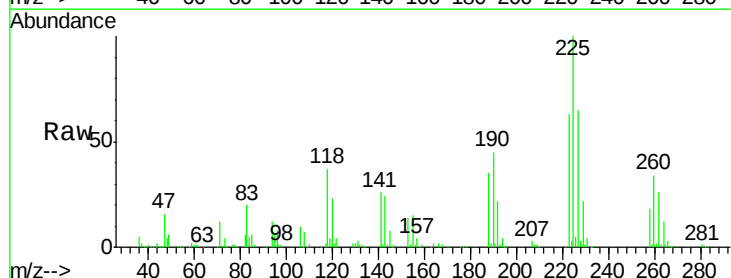
Manual Integrations
 APPROVED

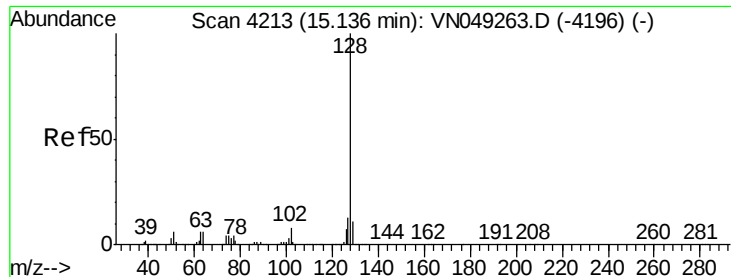
MMDadoda
 6/18/2018 3:16:18 PM



#94
 Hexachlorobutadiene
 Concen: 19.03 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN049287.D
 Acq: 16 Jun 2018 4:17

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	199142		
223	64.1	32.1	96.3	
227	65.2	31.8	95.3	





#95

Naphthalene

Concen: 17.12 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Instrument :

MSVOA_N

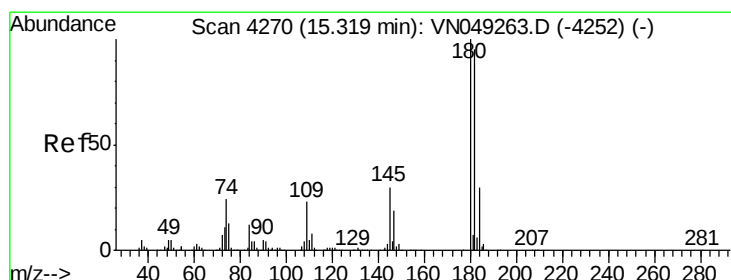
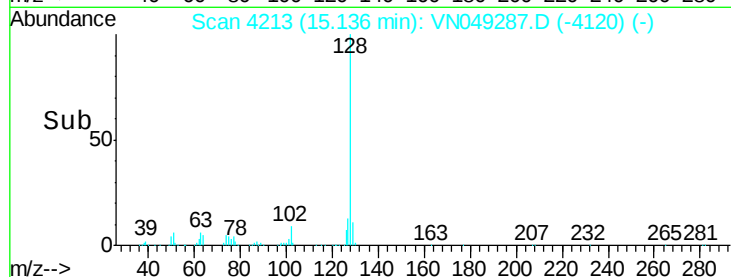
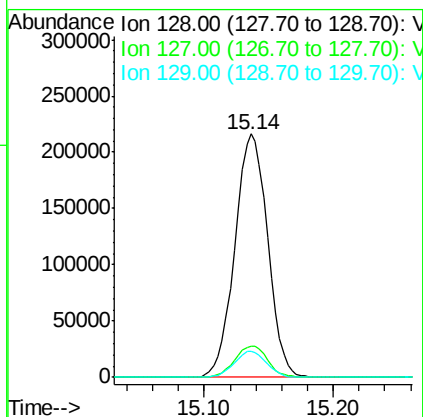
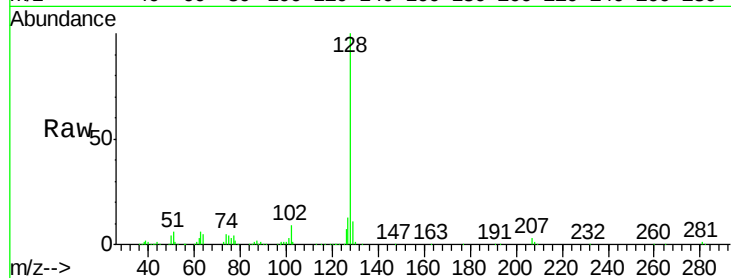
ClientSampleId :

VN0616WBSD02

Tot Ion:	128	Resp:	382507
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.6	16.0
129	10.5	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
6/18/2018 3:16:18 PM



#96

1,2,3-Trichlorobenzene

Concen: 17.54 ug/l

RT: 15.32 min Scan# 4270

Delta R.T. 0.00 min

Lab File: VN049287.D

Acq: 16 Jun 2018 4:17

Tgt Ion:	180	Resp:	222827
Ion Ratio	Lower	Upper	
180	100		
182	97.0	47.3	141.8
145	30.6	15.6	46.7

